BESSIE OWENS JR. HIGH MODERNIZATION

DSA FILE NO.:15-6 **DSA APP NO.: 03-120102** **AGENCY TRACKING NO.: 63321-360**

SHEET LIST

GENERAL

G0000	COVER SHEET
G0001	PROJECT INFORMATION
G1100	OVERALL SITE PLAN & BUILDING ANALYSIS
G1200	FIRE ACCESS
~~Total: 4~~	

LANDSCAPE

~~L-1.0~~	~~LANDSCAPE PLAN~~
L-2.00	PLANTING PLAN
L-3.00	PLANTING PLAN
L-4.00	IRRIGATION MAINLINE PLAN
L-5.00	IRRIGATION PLAN
L-6.00	IRRIGATION PLAN
L-7.00	LANDSCAPE DETAILS
~~Total: 7~~	

CIVIL

C1.1	CIVIL IMPROVEMENTS TOPO SURVEY / PROJECT LIMITS
C1.2	CIVIL IMPROVEMENTS GRADING PLAN NORTHWEST CORNER
C1.3	CIVIL IMPROVEMENTS GRADING PLAN NORTHEAST CORNER
C1.4	CIVIL IMPROVEMENTS GRADING PLAN MIDDLE EAST AREA
C1.5	CIVIL IMPROVEMENTS GRADING PLAN SOUTHWEST CORNER
C1.5A	CIVIL IMPROVEMENTS GRADING PLAN SOUTHWEST CORNER UPDATED TOPOGRAPHIC SURVEY
C1.6	CIVIL IMPROVEMENTS GRADING PLAN SOUTHEAST CORNER
~~C1.7~~	~~CIVIL IMPROVEMENTS GRADING PLAN STADIUM PARKING~~
C1.8	CIVIL IMPROVEMENTS SEWER AND WATER PLAN
C1.9	CIVIL IMPROVEMENTS STORM DRAIN PLAN
C1.10	CIVIL IMPROVEMENTS NOTES AND DETAILS
~~C2.1~~	~~OFF-SITE STREET IMPROVEMENT PLANS TITLE SHEET~~
~~C2.2~~	~~OFF-SITE STREET IMPROVEMENT PLANS NOTES AND DETAILS~~
~~C2.3~~	~~OFF-SITE STREET IMPROVEMENT PLANS CHICO STREET~~
~~Total: 15~~	

ARCHITECTURAL

A1000	SITE PLAN - DEMOLITION
A1100	PARTIAL SITE PLAN
A1101	PARTIAL SITE PLAN
A1102	PARTIAL SITE PLAN
A1103	PARTIAL SITE PLAN - PARKING LOTS
A1104	PARTIAL & ENLARGED SITE PLANS
A1106	ENLARGED SITE PLANS
A1107	ENLARGED STAIR AND RAMP PLANS
A1108	OVERALL SCORING PLAN
A1109	ENLARGED SCORING PLAN
A1110	ENLARGED SCORING PLAN
A1111	ENLARGED SCORING PLAN
A2000	OVERALL FLOOR DEMOLITION PLAN
A2001	OVERALL ROOF DEMOLITION PLAN
A2100	OVERALL FLOOR PLAN - PROPOSED
A2101	CLASSROOM FLOOR AND CEILING PLANS - RM 1-10 & 14
A2102	CLASSROOM FLOOR AND CEILING PLANS - RM 11 & 12
A2103	CLASSROOM FLOOR AND CEILING PLANS - RM 13
A2104	CLASSROOM FLOOR AND CEILING PLANS - BUILDING E
A2105	BUILDING H - FLOOR PLANS
A2106	BUILDING H - REFLECTED CEILING PLANS
A2107	BUILDING H - DEMOLITION EXTERIOR ELEVATIONS
A2108	BUILDING H - PROPOSED EXTERIOR ELEVATIONS
~~A2109~~	~~ENLARGED RESTROOM PLANS~~
A2800	ENLARGED CANOPY PLANS
A2801	ENLARGED CANOPY PLANS
A3000	CANOPY SECTIONS
A3001	ADMINISTRATION EXTERIOR ELEVATIONS
A3002	ADMINISTRATION EXTERIOR ELEVATIONS
A6000	INTERIOR ELEVATIONS
A6001	INTERIOR ELEVATIONS
A6002	INTERIOR ELEVATIONS
~~A6003~~	~~INTERIOR ELEVATIONS~~
A6004	INTERIOR ELEVATIONS
A8000	SITE DETAILS
A8001	SITE DETAILS
A8002	SITE DETAILS
A8200	WALL DETAILS
A8400	CANOPY/ROOF DETAILS
A8500	INTERIOR DETAILS
A8600	OPENING DETAILS
A9000	SCHEDULES
~~Total: 40~~	

STRUCTURAL

S0000	STRUCTURAL NOTES
S0001	STRUCTURAL NOTES
S0002	SPECIAL INSPECTION
S1100	PARTIAL SITE PLAN
S1101	PARTIAL SITE PLAN
S1102	BUILDING 'K' SECONDARY CANOPY PLANS
S1103	BUILDING 'K' MAIN ENTRANCE CANOPY PLANS
S1104	PARTIAL AMPHITHEATER FOUNDATION PLAN - NORTH
S1105	BUILDING 'H' CANOPY FDN. PLAN & FRMG. PLAN
S1106	SITE DETAILS
S1107	SITE DETAILS
S1108	SITE DETAILS
S8000	STRUCTURAL DETAILS
~~Total: 10~~	

MECHANICAL

M1100	MECHANICAL SITE PLAN
M2310	MECHANICAL DEMOLITION & NEW WORK PLAN - BUILDING 'E'
M2311	MECHANICAL DEMOLITION & NEW WORK PLAN - BUILDING 'D'
M2312	MECHANICAL DEMOLITION & NEW WORK PLAN - BUILDING 'C'
M2313	MECHANICAL DEMOLITION & NEW WORK PLAN - BUILDING 'B'
M2314	MECHANICAL DEMOLITION & NEW WORK PLAN - BUILDING 'H'
M2315	MECHANICAL PLAN - SECTION BUILDING 'H'
M4001	MECHANICAL DETAILS
M4002	MECHANICAL SCHEDULES
M4003	MECHANICAL TITLE 24 BUILDING B, C, D
M4004	MECHANICAL TITLE 24 BUILDING E
M4005	MECHANICAL TITLE 24 BUILDING H
M4006	MECHANICAL TITLE 24 BUILDING H
M4007	MECHANICAL TITLE 24 BUILDING H
~~Total: 14~~	

PLUMBING

P1100	PLUMBING SITE PLAN
P2310	PLUMBING PLAN - BUILDING 'E'
P2311	PLUMBING PLAN - BUILDING 'D'
P2312	PLUMBING PLAN - BUILDING 'C'
P2313	PLUMBING PLAN - BUILDING 'B'
P2314	PLUMBING PLAN - BUILDING 'H'
~~Total: 6~~	

ELECTRICAL

E100	SYMBOLS & GENERAL NOTES
E200	PARTIAL SITE ELECTRICAL DEMOLITION PLAN SHEET #1
E201	PARTIAL SITE ELECTRICAL PLAN (EXISTING) SHEET #2
E300	SITE ELECTRICAL PLAN
E300A	PARTIAL SITE ELECTRICAL PLAN
E300B	PARTIAL SITE ELECTRICAL PLAN
E301	PARTIAL SITE ELECTEICAL PLAN (BUILDING K)
E302	PARTIAL SITE ELECTRICAL PLAN (BUILDING L & J)
E304	PARTIAL SITE ELECTRICAL PLAN (BUILDINGS B,C,D, & E)
E305	PARTIAL SITE ELECTRICAL PLAN (BUILDINGS F & G)
E307	PARTIAL SITE ELECTRICAL PLAN
~~E308~~	~~PARTIAL SITE ELECTRICAL PLAN~~
E400	BUILDING B LIGHTING DEMOLITION/LIGHTING PLAN
E401	BUILDING C LIGHTING DEMOLITION / LIGHTING PLAN
E402	BUILDING D LIGHTING DEMOLITION / LIGHTING PLAN
E403	BUILDING E LIGHTING DEMOLITION / LIGHTING PLAN
E404	BUILDING H LIGHTING DEMOLITION / LIGHTING PLAN
E405	LIGHT FIXTURE SCHEDULE, LIGHTING DETAILS
E500	ELECTRICAL DETAILS SHEET #1
E501	ELECTRICAL DETAILS SHEET #2
E502	ELECTRICAL DETAILS SHEET #3
E503	ELECTRICAL DETAILS SHEET #4
E504	ELECTRICAL DETAILS SHEET #5
E600	FIRE ALARM EQUIPMENT LIST, FIRE ALARM NOTES, FIRE ALARM DETAILS, WIRING DIAGRAMS
E600A	FIRE ALARM VOLTAGE DROP AND BATTERY CALCULATIONS
E600B	PARTIAL FIRE ALARM RISER DIAGRAM BLDGS. H & K
E600C	PARTIAL FIRE ALARM RISER DIAGRAM, BLDGS. G & F
E600D	PARTIAL FIRE ALARM RISER DIAGRAM, BLDGS. D & E
E600E	PARTIAL FIRE ALARM RISER DIAGRAM, BLDGS C & B
E600F	PARTIAL FIRE ALARM RISER DIAGRAM BLDGS L & J, I
E601	FIRE ALARM PLAN (BUILDING K & H)
E602	FIRE ALARM PLAN (BUILDING B,C, & D)
E603	FIRE ALARM PLAN BLDGS L & J, I
E604	FIRE ALARM PLAN (BLDGS. E, F & G)
E700A	EXISTING SINGLE LINE DIAGRAM
E700B	EXISTING SINGLE LINE DIAGRAM (MODIFIED)
E701	PROPOSED SINGLE LINE DIAGRAM SHEET #1
E702	PROPOSED SINGLE LINE DIAGRAM SHEET #2
E703	PANEL SCHEDULES
E800	MECHANICAL EQUIPMENT ELECTRICAL DEMOLITION PLAN (BLDG'S B, C, D, & E)
E801	BLDG. H MECHANICAL EQUIPMENT ELECTRICAL DEMOLITION & POWER PLAN
E802	MECHANICAL EQUIPMENT POWER PLAN BLDG'S B, C, D, & E
E900	INDOOR TITLE 24 DOCUMENTS BLDG H
E901	INDOOR TITLE 24 DOCUMENTS BLDG H
E902	OUTDOOR TITLE 24 DOCUMENTS NEW PARKING
E903	OUTDOOR TITLE 24 DOCUMENTS EXISTING PARKING
E904	OUTDOOR TITLE 24 DOCUMENTS CLASSROOMS
E905	INDOOR TITLE 24 DOCUMENTS CLASSROOMS
E906	OUTDOOR TITLE 24 DOCUMENTS CLASSROOMS
~~Total: 66~~	

COMMUNICATIONS

T0.0	TITLE SHEET
T0.1	SITE PLAN
T0.2	BLDG J & MODS FLOOR PLAN
T0.3	BLDG K FLOOR PLAN
T0.4	BLDG H & I FLOOR PLAN
T0.5	BLDG J & MODS CEILING PLAN
T0.6	BLDG K CEILING PLAN
T0.7	SINGLE LINE
T0.8	BACKBONE CABLING
T3.0	BUILDING K - ENLARGED ROOM & ELEVATIONS
T4.1	INSTALLATION SHEET
T4.2	INSTALLATION SHEET
T4.3	INSTALLATION SHEET
~~Total: 10~~	

~~MODULAR CLASSROOM BUILDING 'F1' AMS A# 02-117846 (P.C.02-115726) SER. #: 13-629-012 A/B/G/D~~

~~T0~~	~~TITLE SHEET~~
~~T0.1~~	~~TITLE SHEET~~
~~T1.00~~	~~FORM BOARDING~~
~~A0.00~~	~~GENERAL NOTES & SPECIFICATIONS~~
~~A0.00~~	~~GENERAL NOTES & SPECIFICATIONS~~
~~A0.00~~	~~TYPICAL SCREWLOC SCORE, WINDSWS & FINISHES~~
~~A0.00~~	~~ACCESSIBILITY STANDARDS AND DETAILS~~
~~EN1.00~~	~~ENERGY CALCULATIONS~~
~~EN1.00~~	~~ENERGY CALCULATIONS~~
~~EN1.00~~	~~ENERGY CALCULATIONS~~
~~EN1.00~~	~~ENERGY CALCULATIONS~~
~~EN1.00~~	~~ENERGY CALCULATIONS~~
~~EN1.00~~	~~ENERGY CALCULATIONS~~
~~EN1.00~~	~~ENERGY CALCULATIONS~~
~~EN1.00~~	~~ENERGY CALCULATIONS~~
~~A1.00~~	~~TYPICAL FLOOR PLAN~~
~~A2.00~~	~~TYPICAL ROOF DETAILS~~
~~A2.00~~	~~TYPICAL ROOF DETAILS METAL STANDING SEAM~~
~~A3.00~~	~~INTERIOR ELEVATIONS TYPICAL CLASSROOM~~
~~A3.00~~	~~TYPICAL ELEVATIONS SLIDING PANELS - STUCCO OPTION~~
~~A3.00~~	~~TYPICAL ARCHITECTURAL DETAILS - SYNTHETIC STUCCO OPTION~~
~~A4.00~~	~~MISCELLANEOUS ARCHITECTURAL DETAILS~~
~~S0.00~~	~~STEEL MEMBER PROPERTIES~~
~~S1.00~~	~~CONCRETE FOUNDATION PLAN (60 PSF LIVE LOAD - 10 PSF FLOOR PARTITION)~~
~~S1.00~~	~~CONCRETE FOUNDATION DETAILS~~
~~S1.00~~	~~CONCRETE FOUNDATION DETAILS~~
~~S1.00~~	~~CONCRETE FOUNDATION DETAILS~~
~~S1.00~~	~~CONCRETE FOUNDATION OPTIONAL VAULT/ OPENINGS IN FOOTINGS~~
~~S2.00~~	~~FLOOR FRAMING PLAN & DETAILS FOR CONCRETE FLOOR - SWI-BEAM OR SWI-BEAM OPTION (NOT FOR MAIN FLOOR LVL)~~
~~S3.00~~	~~ROOF FRAMING PLAN & DETAILS ENCLOSED SOFFIT OPTION~~
~~S3.00~~	~~ROOF FRAMING DETAILS~~
~~S3.00~~	~~MOMENT FRAME ELEVATIONS & DETAILS~~
~~S3.00~~	~~MOMENT FRAME CONNECTION DETAILS~~
~~S3.00~~	~~TYPICAL ROOF TRUSS AND RAFTER/PURLIN FRAMED SECTIONS~~
~~S3.00~~	~~WALL FRAMING ELEVATIONS & SCHEDULES - WOOD STUDS~~
~~S3.00~~	~~WALL FRAMING DETAILS - WOOD STUDS~~
~~M1.00~~	~~TYPICAL REFLECTED CEILING PLAN~~
~~M1.00~~	~~TYPICAL MECHANICAL PLANS~~
~~M1.00~~	~~MECHANICAL & DESIGN DETAILS~~
~~M1.00~~	~~MECHANICAL & DESIGN DETAILS~~
~~M1.00~~	~~MECHANICAL & DESIGN DETAILS~~
~~M1.00~~	~~MECHANICAL ROOF DETAILS~~
~~M1.00~~	~~CEILING & MECHANICAL NOTES & SCHEDULES~~
~~E1.00~~	~~TYPICAL ELECTRICAL PLAN~~
~~E1.00~~	~~ELECTRICAL NOTES & DETAILS~~
~~P1.00~~	~~RESTROOM OPTIONS PLUMBING PLANS & FIXTURE SCHEDULES~~
~~P2.00~~	~~PLUMBING DETAILS & ISOMETRIC DETAILS~~
~~P3.00~~	~~PLUMBING ISOMETRIC DRAWINGS~~
~~Total: 40~~	

~~MODULAR CLASSROOM BUILDING 'G' & 'L' ELITE A# 04-116652 (P.C.04-116668) BLDG. 'G' SER. #: 5050-A01/02/03/04 5050-B01/02/03/04/05/06 5050-C01/02/03/04/05 BLDG. 'L' SER. #: 15340-15347~~

~~A-0N~~	~~COVER SHEET~~
~~A-1.02N~~	~~FLOOR PLAN 12x16 CLASSROOM~~
~~A-1.03N~~	~~FLOOR PLAN 12x16 CLASSROOM~~
~~A-1.04N~~	~~FLOOR PLAN 24x16 CLASSROOM - RESTROOM~~
~~A-1.01N~~	~~FLOOR PLAN 60x16 CLASSROOM~~
~~E-2.01N~~	~~ROOF 12x16 CLASSROOM~~
~~A-2.01N~~	~~ROOF 24x16 CLASSROOM~~
~~A-2.02N~~	~~ROOF 60x16 CLASSROOM w/RESTROOM~~
~~A-3.01N~~	~~EXTERIOR ELEVATIONS 12x16 CLASSROOM~~
~~A-3.02N~~	~~EXTERIOR ELEVATIONS 24x16 CLASSROOM w/RESTROOM~~
~~A-3.03N~~	~~EXTERIOR ELEVATIONS 60x16 CLASSROOM~~
~~A-6.01N~~	~~INTERIOR ELEVATIONS TYP CLASSROOM & RESTROOM~~
~~E-1.01N~~	~~FOUNDATION KEY PLAN~~
~~E-1.02N~~	~~FOUNDATION KEY PLAN 12x16 CLASSROOM~~
~~E-1.03N~~	~~FOUNDATION KEY PLAN 24x16 CLASSROOM - RESTROOM~~
~~E-1.04N~~	~~FOUNDATION KEY PLAN 60x16 CLASSROOM~~
~~P-1.01N~~	~~PLUMBING PLAN ISOMETRICS SCHEDULES TYP CLASSROOM~~
~~P-1.02N~~	~~PLUMBING PLAN ISOMETRICS SCHEDULES 12x16 RESTROOM~~
~~M-1.01N~~	~~MECHANICAL PLAN 12x16 CLASSROOM~~
~~M-1.02N~~	~~MECHANICAL PLAN 24x16 CLASSROOM w/RESTROOM~~
~~M-1.03N~~	~~MECHANICAL PLAN 60x16 CLASSROOM~~
~~E-1.01N~~	~~ELECTRICAL PLAN 12x16 CLASSROOM~~
~~E-1.02N~~	~~ELECTRICAL PLAN 24x16 CLASSROOM~~
~~E-1.03N~~	~~ELECTRICAL PLAN 24x16 CLASSROOM w/RESTROOM~~
~~E-1.04N~~	~~ELECTRICAL PLAN 60x16 CLASSROOM~~
~~A-0~~	~~COVER SHEET~~
~~A-0A~~	~~T & I FORMS - NON-STOCK/PILE~~
~~A-0.0~~	~~BUILDING OPTIONS SCHEDULE~~
~~A-0.1~~	~~SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE~~
~~A-0.2~~	~~SCHEDULES~~
~~A-0.5A~~	~~ENERGY CALC'S - PRF FORMS - ZONE 14 WORST CASE - 24X40~~
~~A-0.5B~~	~~ENERGY CALC'S - PRF FORMS - ZONE 15 WORST CASE - 24X40~~
~~A-0.5C~~	~~ENERGY CALC'S - PRF FORMS - ZONE 16 WORST CASE - 24X40~~
~~A-0.6A~~	~~ENERGY CALC'S - ELC FORMS - 24' x 40' BUILDINGS~~
~~A-0.6B~~	~~ENERGY CALC'S - LTO / MCH FORMS - 24' x 40' BUILDINGS~~
~~A-0.7~~	~~DESIGN ENERGY VALUES BY ZONE & CALGREEN SPECIFICATIONS~~
~~A-1.01~~	~~FLOOR PLAN - 24' x 40'~~
~~A-1.07~~	~~OPTIONAL 24 x 40 TOILET BUILDING PLUMBING PLAN & ISOMETRICS~~
~~A-2.01~~	~~REFLECTED CEILING PLAN - 24' x 40'~~
~~A-2.20~~	~~CEILING DETAILS - T-GRID~~
~~A-2.21~~	~~CEILING DETAILS - HARD LID~~
~~A-3.31~~	~~ROOF PLAN - PARAPET - MONO OR DUAL SLOPE - 24' x 40'~~
~~A-3.80~~	~~ROOF DETAILS – PARAPET~~
~~A-3.90~~	~~ROOF DETAILS – TPO~~
~~A-4.23~~	~~EXTERIOR ELEVATIONS - MONO OR DUAL SLOPE - 24' x 40' (PARAPET)~~
~~A-5.01~~	~~CROSS SECTION - MONO SLOPE - 0.018", B.U., OR TPO RF. DECK OR PARAPET~~
~~A-5.05~~	~~CROSS SECTION~~
~~A-5.51~~	~~ARCHITECTURAL DETAILS - WOOD STUD – PLASTER~~
~~A-5.70~~	~~ARCHITECTURAL DETAILS - FLOOR~~
~~A-5.80~~	~~ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS~~
~~A-5.81~~	~~ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS~~
~~A-6.01~~	~~INTERIOR ELEVATIONS - 24' x 40'~~
~~F-2.11~~	~~CONCRETE FOUNDATION PLAN - BELOW GRADE - CONCRETE FLOOR~~
~~F-2.50~~	~~CONCRETE FOUNDATION DETAILS - BELOW GRADE~~
~~F-2.51~~	~~CONCRETE FOUNDATION DETAILS - BELOW GRADE~~
~~S-0.1~~	~~STRUCTURAL SPECIFICATIONS~~
~~S-1.11~~	~~FLOOR FRAMING PLAN - CONCRETE FLOOR~~
~~S-1.60~~	~~FLOOR FRAMING DETAILS - CONCRETE FLOOR~~
~~S-2.03~~	~~ROOF FRAMING PLAN - PARAPET - MONO SLOPE~~
~~S-2.50~~	~~ROOF FRAMING DETAILS - MONO SLOPE~~
~~S-2.60~~	~~ROOF FRAMING DETAILS~~
~~S-2.70~~	~~ROOF FRAMING DETAILS - PARAPET~~
~~S-2.90~~	~~ROOF FRAMING DETAILS - TRUSS~~
~~S-3.01~~	~~BUILDING SECTION - MONO SLOPE ROOF~~
~~S-5.00~~	~~WALL FRAMING ELEVATIONS - WOOD STUDS~~
~~S-5.10~~	~~WALL FRAMING DETAILS - WOOD STUDS~~
~~S-5.11~~	~~WALL FRAMING DETAILS - WOOD STUDS~~
~~P-1.01~~	~~PLUMBING DETAILS AND SCHEDULE~~
~~M-0.1~~	~~MECHANICAL NOTES, SCHEDULES, AND DETAILS~~
~~M-2.01~~	~~MECHANICAL PLAN - ROOF MOUNT - 24' x 40'~~
~~M-2.02~~	~~MECHANICAL ROOF PLAN - ROOF MOUNT - 24' x 40'~~
~~E-1.01~~	~~ELECTRICAL PLAN - 24' x 40'~~
~~Total: 57~~	

BUILDING 'K' (24'x40') - BASED ON PC 04-116668 SER # 15338/15339

A-0N	COVER SHEET
A-1.03N	FLOOR PLAN 24x40 PARENT CTR.
A-2.03N	REFLECTED CEILING PLAN 24x40 PARENT CTR.
A-3.03N	ROOF PLAN 24x40 PARENT CTR.
A-4.03N	EXTERIOR ELEVATIONS 24x40 PARENT CTR.
A-6.01N	INTERIOR ELEVATIONS
P-1.03N	PLUMBING PLAN, ISOMETRICS & SCHEDULES - 24x40 PARENT CTR.
M-1.03N	MECHANICAL PLAN 24x40 PARENT CTR.
E-1.03N	ELECTRICAL PLAN 24x40 PARENT CTR.
A-0	COVER SHEET
A-0A	T & I FORMS
A-0.0	BUILDING OPTIONS SCHEDULE
A-0.1	SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE
A-0.2	SCHEDULES
A-0.5A	ENERGY CALC'S - PRF FORMS - ZONE 14 WORST CASE - 24X40
A-0.5B	ENERGY CALC'S - PRF FORMS - ZONE 15 WORST CASE - 24X40
A-0.5C	ENERGY CALC'S - PRF FORMS - ZONE 16 WORST CASE - 24X40
A-0.6A	ENERGY CALC'S - ELC FORMS - 24' x 40' BUILDINGS
A-0.6B	ENERGY CALC'S - LTO / MCH FORMS - 24' x 40' BUILDINGS
A-0.7	DESIGN ENERGY VALUES BY ZONE & CALGREEN SPECIFICATIONS
A-1.01	FLOOR PLAN - 24' x 40'
A-1.07	OPTIONAL 24 x 40 TOILET BUILDING PLUMBING PLAN & ISOMETRICS
A-2.01	REFLECTED CEILING PLAN - 24' x 40'
A-2.20	CEILING DETAILS - T-GRID
A-2.21	CEILING DETAILS - HARD LID
A-3.31	ROOF PLAN - PARAPET - MONO OR DUAL SLOPE - 24' x 40'
A-3.80	ROOF DETAILS – PARAPET
A-3.90	ROOF DETAILS – TPO
A-4.23	EXTERIOR ELEVATIONS - MONO OR DUAL SLOPE - 24' x 40' (PARAPET)
A-5.01	CROSS SECTION - MONO SLOPE - 0.018", B.U., OR TPO RF. DECK OR PARAPET
A-5.05	CROSS SECTION
A-5.51	ARCHITECTURAL DETAILS - WOOD STUD – PLASTER
A-5.70	ARCHITECTURAL DETAILS - FLOOR
A-5.80	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-5.81	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-6.01	INTERIOR ELEVATIONS - 24' x 40'
F-2.11	CONCRETE FOUNDATION PLAN - BELOW GRADE - CONCRETE FLOOR
F-2.50	CONCRETE FOUNDATION DETAILS - BELOW GRADE
F-2.51	CONCRETE FOUNDATION DETAILS - BELOW GRADE
S-0.1	STRUCTURAL SPECIFICATIONS
S-1.11	FLOOR FRAMING PLAN - CONCRETE FLOOR
S-1.60	FLOOR FRAMING DETAILS - CONCRETE FLOOR
S-2.03	ROOF FRAMING PLAN - PARAPET - MONO SLOPE
S-2.50	ROOF FRAMING DETAILS - MONO SLOPE
S-2.60	ROOF FRAMING DETAILS
S-2.70	ROOF FRAMING DETAILS - PARAPET
S-2.90	ROOF FRAMING DETAILS - TRUSS
S-3.01	BUILDING SECTION - MONO SLOPE ROOF
S-5.00	WALL FRAMING ELEVATIONS - WOOD STUDS
S-5.10	WALL FRAMING DETAILS - WOOD STUDS
S-5.11	WALL FRAMING DETAILS - WOOD STUDS
P-1.01	PLUMBING DETAILS AND SCHEDULE
M-0.1	MECHANICAL NOTES, SCHEDULES, AND DETAILS
M-2.01	MECHANICAL PLAN - ROOF MOUNT - 24' x 40'
M-2.02	MECHANICAL ROOF PLAN - ROOF MOUNT - 24' x 40'
E-1.01	ELECTRICAL PLAN - 24' x 40'
Total: 57	

BUILDING 'K' (60'x60') - BASED ON PC 04-116719 SER # 15328 - 15337

A-0N	COVER SHEET
A-1.01N	FLOOR PLAN 60x60 ADMIN
A-1.02N	FLOOR PLAN 60x60 LIBRARY
A-2.01N	REFLECTED CEILING PLAN 60x60 ADMIN
A-2.02N	REFLECTED CEILING PLAN 60x60 LIBRARY
A-3.01N	ROOF PLAN 60x60 ADMIN
A-3.02N	ROOF PLAN 60x60 LIBRARY
A-4.01N	EXTERIOR ELEVATIONS 60x60 ADMIN
A-4.02N	EXTERIOR ELEVATIONS 60x60 LIBRARY
A-6.01N	INTERIOR ELEVATIONS
P-1.01N	PLUMBING PLAN, ISOMETRICS & SCHEDULES - 60x60 ADMIN
P-1.02N	PLUMBING PLAN, ISOMETRICS & SCHEDULES - 60x60 LIBRARY
M-1.01N	MECHANICAL PLAN 60x60 ADMIN
M-1.02N	MECHANICAL PLAN 60x60 LIBRARY
E-1.01N	ELECTRICAL PLAN 60x60 ADMIN
E-1.02N	ELECTRICAL PLAN 60x60 LIBRARY
A-0	COVER SHEET
A-0A	T & I FORMS
A-0.0	BUILDING OPTIONS SCHEDULE
A-0.1	SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE
A-0.2	SCHEDULES
A-0.5D	ENERGY CALC'S - PRF FORMS - ZONE 14 WORST CASE - 72'x60'
A-0.5E	ENERGY CALC'S - PRF FORMS - ZONE 15 WORST CASE - 72'x60'
A-0.5F	ENERGY CALC'S - PRF FORMS - ZONE 16 WORST CASE - 72'x60'
A-0.6A	ENERGY CALC'S - CERTICIFICATE OF COMPLIANCE FORMS
A-0.6B	ENERGY CALC'S - CERTIFICATE OF COMPLIANCE FORMS
A-0.6C	SINGLE MODULE TOILET BUILDING COMPLIANCE FORMS
A-0.7	ENERGY CALC'S - VALUES BY ZONE & CALGREEN NOTES
A-1.03	FLOOR PLAN - 36' TO 72' x 60'
A-2.03	REFLECTED CEILING PLAN - 36' TO 72' x 60'
A-2.20	CEILING DETAILS - T-GRID
A-2.21	CEILING DETAILS - HARD LID
A-3.33	ROOF PLAN - PARAPET - DUAL SLOPE - 36' TO 72'x60'
A-3.80	ROOF DETAILS – PARAPET
A-3.90	ROOF DETAILS – TPO
A-4.23	EXTERIOR ELEVATIONS - DUAL SLOPE - 36' TO 72'x60' (PARAPET)
A-5.02	CROSS SECTION - DUAL SLOPE
A-5.05	CROSS SECTION
A-5.51	ARCHITECTURAL DETAILS - WOOD STUD – PLASTER
A-5.70	ARCHITECTURAL DETAILS - FLOOR
A-5.80	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-6.04	INTERIOR ELEVATIONS - 36' TO 72' x 60'
F-2.11	CONCRETE FOUNDATION PLAN - BELOW GRADE - CONCRETEFLOOR
F-2.50	CONCRETE FOUNDATION DETAILS - BELOW GRADE
F-2.51	CONCRETE FOUNDATION DETAILS - BELOW GRADE
S-0.1	STRUCTURAL SPECIFICATIONS
S-1.11	FLOOR FRAMING PLAN - CONCRETE FLOOR
S-1.60	FLOOR FRAMING DETAILS - CONCRETE FLOOR
S-2.13	ROOF FRAMING PLAN - PARAPET -DUAL SLOPE
S-2.51	ROOF FRAMING DETAILS - DUAL SLOPE
S-2.60	ROOF FRAMING DETAILS
S-2.70	ROOF FRAMING DETAILS - PARAPET
S-2.90	ROOF FRAMING DETAILS - TRUSS
S-3.02	BUILDING SECTION - DUAL SLOPE ROOF
S-5.00	WALL FRAMING ELEVATIONS - WOOD STUDS
S-5.10	WALL FRAMING DETAILS - WOOD STUDS
S-5.11	WALL FRAMING DETAILS - WOOD STUDS
P-1.01	PLUMBING DETAILS AND SCHEDULE
M-0.1	MECHANICAL NOTES, SCHEDULES, AND DETAILS
M-4.01	MECHANICAL PLAN - ROOF MOUNT - 36' TO 72' x 60'
M-4.02	MECHANICAL ROOF PLAN-ROOF MOUNT-36' TO 72'x60'
E-1.04	ELECTRICAL PLAN - 36' TO 72' x 60'
Total: 65	

GRAND TOTAL: 278

SCOPE OF WORK

THE FOLLOWING IS A BRIEF DESCRIPTION OF THE SCOPE OF WORK AS REQUIRED BY DSA. CONTRACTOR SHALL DETERMINE/VERIFY THE ENTIRE SCOPE AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS PRIOR TO SUBMITTING BIDS.

BUILDINGS:

- **(E) BUILDING 'B' - CLASSROOM BUILDING**
  - CLASSROOM MODERNIZATION
- **(E) BUILDING 'C' - CLASSROOM BUILDING**
  - CLASSROOM MODERNIZATION
  - ~~RESTROOM MODERNIZATION~~
- **(E) BUILDING 'D' - CLASSROOM BUILDING**
  - CLASSROOM MODERNIZATION
  - ~~RESTROOM MODERNIZATION~~
- **(E) BUILDING 'E' - CLASSROOM BUILDING**
  - CLASSROOM MODERNIZATION
- **(E) BUILDING 'H' - MULTI-PURPOSE BUILDING**
  - BUILDING MODERNIZATION
- ~~BUILDING 'F1' - MODULAR CLASSROOM BUILDING~~
  - ~~RELOCATION OF ONE (1) 60' x 40' MODULAR BUILDING, REFRIG. FROM STOCKPILE - LINE 1127614 (PO 01-116726)~~
- ~~BUILDING 'G' - MODULAR CLASSROOM BUILDING~~
  - ~~RELOCATION OF ONE (1) 12' x 40' MODULAR BUILDING REFRIG. FROM STOCKPILE - LINE 1140652 (PO 01-116668)~~
  - ~~RELOCATION OF ONE (1) 24' x 40' MODULAR BUILDING PROPOSED FROM STOCKPILE - LINE 1140652 (PO 01-116668)~~
  - ~~RELOCATION OF ONE (1) 60' x 40' MODULAR BUILDING PROPOSED FROM STOCKPILE - LINE 1140652

ABBREVIATIONS

A	- ACCESSIBLE	MATL	- MATERIAL
AC	- ASPHALT CONCRETE	MAX	- MAXIMUM
A/C	- AIR CONDITIONING	MECH	- MECHANICAL
ACOUS	- ACOUSTICAL	MIN	- MINIMUM
ADD	- ADDENDUM	MIR	- MIRROR
ADJ	- ADJUSTABLE or ADJACENT	MISC	- MISCELLANEOUS
		MTL	- METAL
ALUM	- ALUMINUM	(N)	- NEW
ARCH	- ARCHITECT (URAL)	NIC	- NOT IN CONTRACT
BD	- BOARD	NO	- NUMBER
BLDG	- BUILDING	NTS	- NOT TO SCALE
BLKG	- BLOCKING	O/	- OVER
BM	- BEAM	OC	- ON CENTER
BOT	- BOTTOM	OD	- OUTSIDE DIAMETER
BUR	- BUILT UP ROOFING	OPP	- OPPOSITE
C	- CARPET	PL	- PROPERTY LINE
CB	- CATCH BASIN	PLAM	- PLASTIC LAMINATE
CJ	- CONTROL JOINT	PLAS	- PLASTER
CLG	- CEILING	PLT	- PLATE
CT	- CERAMIC MOSAIC (TILE)	PLWD	- PLYWOOD
CMU	- CONCRETE MASONRY UNIT	PNL	- PANEL
		POC	- POINT OF CONNECTION
CO	- CLEAN OUT	PTDF	- PRESERVATIVE TREATED DOUGLAS FIR
COL	- COLUMN		
CONC	- CONCRETE	PTN	- PARTITION
CSK	- COUNTERSINK	PVC	- POLYVINYL CHLORIDE
CW	- COLD WATER	R	- RISER
DET	- DETAIL	RD	- ROOF DRAIN
DF	- DRINKING FOUNTAIN	REF	- REFERENCE
DIA	- DIAMETER	REFR	- REFRIGERATOR
DIAG	- DIAGONAL	REQ'D	- REQUIRED
DIM	- DIMENSION	RWL	- RAIN WATER LEADER
DIV	- DIVISION	SCH	- SCHEDULE
DS	- DOWNSPOUT	SD	- STORM DRAIN
DWG	- DRAWING	SEC	- SECTION
E	- ENAMEL	SF	- SQUARE FEET
(E)	- EXISTING	SHT	- SHEET
EA	- EACH	SHTG	- SHEATHING
EJ	- EXPANSION JOINT	SIM	- SIMILAR
ELEV	- ELEVATION	SPEC	- SPECIFICATIONS
ELECT	- ELECTRICAL	SQ	- SQUARE
EQ	- EQUAL	SS	- STAINLESS STEEL
EXT	- EXTERIOR	STN	- STAIN
(F)	- FUTURE	STD	- STANDARD
FAB	- FABRICATION	STL	- STEEL
FAC	- FACTORY	TEMP	- TEMPERED
FD	- FLOOR DRAIN	T&G	- TONGUE-AND-GROOVE
FF	- FINISHED FLOOR	THRU	- THROUGH
FIN	- FINISH	TJ	- TOOL JOINT
FND	- FOUNDATION	TOC	- TOP OF CURB,
FOC	- FACE OF CONCRETE	CRICKET,	or CONCRETE
FOF	- FACE OF FINISH	TOP	- TOP OF PARAPET
FOP	- FACE OF PLYWOOD	TOS	- TOP OF SLAB, SHEATHING, or STEEL
FOS	- FACE OF STUD		
FRP	- FIBERGLASS REINFORCED PLASTIC PANELS	TS	- TOP OF SHEATHING
		TV	- TELEVISION
FTG	- FOOTING	TYP	- TYPICAL
GA	- GAUGE	UON	- UNLESS OTHERWISE NOTED
GB	- GYPSUM BOARD		
GL	- GLASS or GLAZING	VCT	- VINYL COMPOSITION TILE
GLV	- GALVANIZED		
GSM	- GALVANIZED SHEET METAL	VCTB	- VINYL COVERED TACKBOARD
GYP	- GYPSUM	VIF	- VERIFY IN FIELD
HDW	- HARDWOOD	VWC	- VINYL WALL COVERING
HM	- HOLLOW METAL	W/	- WITH
HOR	- HORIZONTAL	WD	- WOOD
HT	- HEIGHT	WF	- WIDE FLANGE
HW	- HOT WATER	WS	- WOOD SCREW
ID	- INSIDE DIAMETER	WSCT	- WAINSCOT
INV	- INVERT	@	- AT
JT	- JOINT	±	- PLUS/MINUS
LAM	- LAMINATE (D)		

DSA ADMIN. REQUIREMENTS

ADMINISTRATIVE REQUIREMENTS:

1. A COPY OF PARTS 1,2,3,4, & 5 TITLE 24, C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
2. ALL CONSTRUCTION CHANGE DOCUMENTS - C.C.D. (CHANGE ORDERS) - AND ADDENDA TO BE SIGNED BY ARCHITECT AND THE OWNER AND APPROVED BY DSA. CONSTRUCTION CHANGE DOCUMENTS - C.C.D. (CHANGE ORDERS) -AND ADDENDA ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4- 338, PART 1, TITLE 24.
3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED TESTS AND INSPECTIONS SHEET.
4. TESTS OF MATERIALS SHALL AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335, PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST SHALL BE PER GENERAL CONDITIONS.
5. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24.
6. A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT(OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333(b). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24.
7. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.
8. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (Form SSS-6) IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343, PART 1, TITLE 24.
9. THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341, PART 1, TITLE 24.
10. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343, PART 1, TITLE 24.
11. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE DOCUMENT (C.C.D), OR SEPARATE SET OF PLANS AND SPECIFCATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
12. DSA INSPECTOR LEVEL 3 REQUIRED.
13. ALL WORK SHALL CONFORM TO 2016 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
14. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
15. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

APPLICABLE CODES

CALIFORNIA CODE OF REGULATIONS, TITLE 24 - BUILDING STANDARDS

- **2016 CALIFORNIA ADMINISTRATIVE CODE (CAC)** (Title 24, Part 1, CCR)
- **2016 CALIFORNIA BUILDING CODE (CBC)**, Volumes 1 & 2 (Title 24, Part 2, CR) (2015 International Building Code with 2016 California amendments)
- **2016 CALIFORNIA ELECTRICAL CODE**, Title 24, Part 3, CCR) (2014 National Electrical Code with 2016 California amendments)
- **2016 CALIFORNIA MECHANICAL CODE (CMC)**, Title 24, Part 4, CCR) (2015 Uniform Mechanical Code with 2016 California amendments)
- **2016 CALIFORNIA PLUMBING CODE (CPC)**, Title 24, Part 5, CCR) (2015 Uniform Plumbing Code with 2016 California amendments)
- **2016 CALIFORNIA ENERGY CODE**, (Title 24, Part 6)
- **2016 CALIFORNIA HISTORICAL BUILDING CODE**, (Title 24, Part 8, CCR) (2015 International Building Code with 2016 California amendments)
- **2016 CALIFORNIA FIRE CODE (CFC)**, Title 24, Part 9, CCR) (2015 International Fire Code with 2016 California amendments)
- **2016 CALIFORNIA EXISTING BUILDING CODE**, (Title 24, Part 10, CCR) (2015 International Building Code with 2016 California amendments)
- **2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)**, Title 24, Part 11, CCR) - 2016 California Green Building Standards Code applies at those portions designated by California Building Standards Commission.
- **2016 CALIFORNIA REFERENCE STANDARDS CODE**, (Title 24, Part 12, CCR)

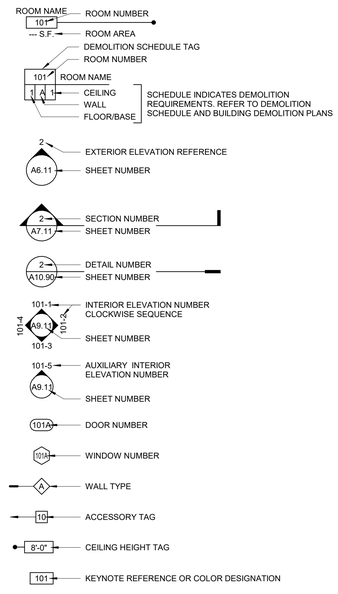
2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN, U.S. Department of Justice

2016 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2015 Edition

2016 NFPA 72, NATIONAL FIRE ALARM CODE AND SIGNALING CODE, 2015 Edition

NOTE: SOME CODES MAY NOT APPLY IF WORK REGULATED BY SUCH CODES IS NOT WITHIN THE SCOPE OF THIS PROJECT.

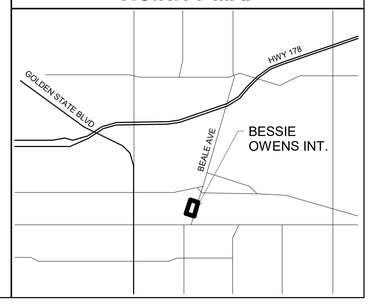
SYMBOLS LEGEND



GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS (TITLE DOCUMENTS) AND ALL OTHER LOCAL CODES AND ORDINANCES OF THE GOVERNING AUTHORITY HAVING JURISDICTION AND AS IDENTIFIED UNDER APPLICABLE CODES ON THIS SHEET. IT IS THE INTENT OF THESE DOCUMENTS TO COMPLY HERETO.
2. ALL DRAWINGS SHALL BE USED IN CONCERT WITH EACH OTHER. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCY BETWEEN THE DOCUMENTS, THE CONTRACTOR SHALL REQUEST IN WRITING A CLARIFICATION FROM THE ARCHITECT. REFER TO THE ARCHITECTURAL AND ENGINEERING DRAWINGS FOR PLACEMENT, ORIENTATION AND COORDINATION OF WORK. INFORMATION SHOWN IN LARGER SCALE IS INTENDED TO SUPPLEMENT INFORMATION OF SMALLER, PRECEDING REFERENCE DRAWINGS. LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
3. NOTATIONS MARKED "TYPICAL" (TYP.) SHALL BE CONSISTENT THROUGHOUT ALL SUCH REFERENCE NOMENCLATURE, SYMBOLS AND DRAWING INDICATIONS OF LIKE OR SIMILAR KIND.
4. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY CONSTRUCTION CONDITIONS AND DIMENSIONS PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY ASSOCIATED WORK. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL REQUEST IN WRITING A CLARIFICATION FROM THE ARCHITECT PRIOR TO COMMENCEMENT OF ANY ASSOCIATED WORK.
5. CONTRACTOR SHALL VERIFY, AT THE SITE, ALL EXISTING CONDITIONS PRIOR TO SUBMITTAL OF BIDS. SITE VISITS DURING BIDDING SHALL BE COORDINATED WITH THE OWNER IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATIONS.
6. CONTRACTOR SHALL PROTECT ALL EXISTING WORK. ANY DAMAGED WORK SHALL BE REPLACED WITH THE SAME MATERIALS, INCLUDING MATCHING THE EXISTING COLORS AND TEXTURES.
7. EXISTING WORK IS SHOWN FOR REFERENCE ONLY. THE OWNER AND/OR ARCHITECT DO NOT GUARANTEE EXISTING CONDITIONS AS SHOWN ON THESE DOCUMENTS.
8. CONTRACTOR(S) SHALL BE RESPONSIBLE FOR THEIR OWN CLEANUP AS WORK PROGRESSES.
9. MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS THAT ARE DISCOVERED DURING THE PROGRESS OF THE WORK SHALL BE REPORTED TO THE OWNER IN WRITING. WORK IN THAT PARTICULAR AREA SHALL BE SUSPENDED UNTIL THE OWNER TESTS THE SUSPECT MATERIAL AND IT IS FOUND TO BE SAFE, OR THE MATERIAL HAS BEEN PROPERLY ABATED.
10. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
11. IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN.
12. STORAGE OF CONSTRUCTION MATERIAL AND EFFECT OF WORK ON EXISTING OCCUPIED AREAS SHALL BE APPROVED BY THE LOCAL FIRE AUTHORITY.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK PROVIDED BY OTHERS UNDER SEPARATE CONTRACT.
14. KEYNOTES USED ON THE ARCHITECTURAL DRAWINGS ARE FOR ASSEMBLIES, MATERIAL REFERENCES AND NOTES. REFER TO THE KEYNOTE LIST ON THE RESPECTIVE DRAWING FOR THE INFORMATION WHICH RELATES TO EACH KEYNOTE.
15. DURING CONSTRUCTION, COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION WILL BE ENFORCED.
16. DURING CONSTRUCTION, COMPLIANCE WITH CBC CHAPTER 33, SAFETY WILL BE ENFORCED.
17. NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO DSA FOR APPROVAL.
18. SUBSTITUTIONS AFFECTING DSA REGULATIONS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA AND APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION
19. "DETERIORATIONS OR EXISTING NON-COMPLIANT CONSTRUCTION: IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFIYING THE REQUIRED REPAIR WORK SHALL BE SUBMIUTTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH REPAIR WORK"

VICINITY MAP



AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SEAL

LICENSED ARCHITECT RICHARD M. LO No. C18079 REN. 10/21 STATE OF CALIFORNIA

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REVISIONS

NO.	DATE SUBMITTED	DATE APPROVED	DESCRIPTION

CONSULTANT

PRIME CONSULTANT

IBI ARCHITECTURE PLANNING

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4119 Broad Street, Suite 210
San Luis Obispo, CA 93401
805.546.0433 fax: 805.546.0504
ibigroup.com

BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JR HIGH MODULAR CLASSROOM BUILDINGS

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	htm
CHK'D BY:	rRr/RM
ISSUE DATE:	11/21/2019

SHEET TITLE

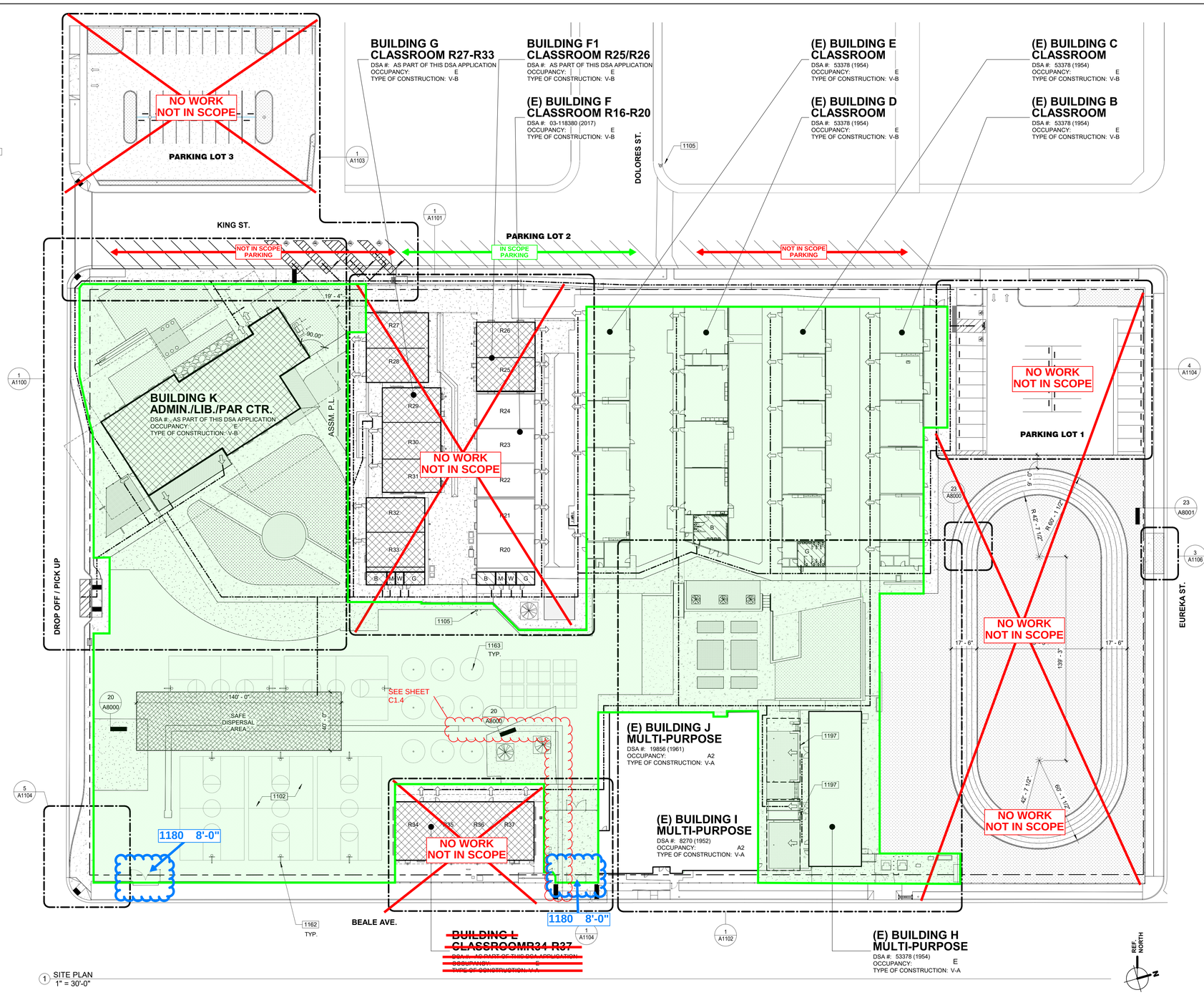
PROJECT INFORMATION

SHEET NUMBER

PHASE III

G0001

PLOT DATE: 2020-03-06 1:45:51 PM C:\Users\cmo.zaragoza\Documents\REVIT20181\NTH-118934-BessieOwensHS_Site 06-26-19_v2018_carlos.zaragoza.rvt



1 SITE PLAN
1" = 30'-0"

1000-GENERAL NOTES

1. REFER TO CIVIL, PLUMBING, AND ELECTRICAL DRAWINGS FOR UNDERGROUND UTILITIES.
2. PRIOR TO ANY UNDERGROUND SITE WORK, VERIFY LOCATION OF ALL EXISTING UTILITIES WITH UNDERGROUND SERVICE ALERT (U.S.A.).

KEYNOTES

1102	(E) A.C. PAVED AREA TO REMAIN
1105	(E) FIRE HYDRANT TO REMAIN
1162	BASKETBALL COURT AND POSTS
1163	TETHERBALL POSTS
1197	DASHED LINE INDICATES CANOPY OVERHEAD
1180	CHAIN LINK GATE WITH PRIVACY SLATS, SIZE AS SPECIFIED. SEE DETAIL 15/A8001

LEGEND

- ASSUMED PROPERTY LINE
- PROPERTY LINE
- ORNAMENTAL FENCE
- ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE AT LEAST 48" WIDE, WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAX. SLOPE, EXCEPT LEVEL CHANGES THAT DO NOT EXCEED 2% AND SLOPES IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5%. "PASSING SPACES" AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART. PART OF ACCESSIBLE PATH OF TRAVEL WITH CONTINUOUS GRADIENTS HAVE 60' LEVEL AREAS NOT MORE THAN 400' APART. P.O.T. SHALL BE FREE OF OBSTRUCTIONS OVERHANGING WITHIN 80" ABOVE WALKING SURFACE AND PROJECTING GREATER THAN 4" FROM WALL SURFACES BETWEEN 27" AND 80" ABOVE WALKING SURFACE, CBC 2016 SECTION 11B
  THE ARCHITECT SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEE REMOVED. GATES IN PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS PER CBC SECTION 11B-404.1
- ACCESSIBLE BUILDING EXIT
- NEW BUILDING TO BE CONSTRUCTED AS PART OF DSA APPLICATION NUMBER AND CONTRACT
- EXISTING ACCESSIBLE STUDENT OR STAFF RESTROOM PER DSA APPLICATION NUMBER AS INDICATED.(M - MEN, W- WOMEN, B - BOYS , G - GIRLS)
- 4" THICK CONCRETE WALK W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. MEDIUM BROOM FINISH. SEE DETAIL 09/A8000 FOR TYPICAL WALK EDGE AT LANDSCAPE AREA.
- AC PAVING. SEE CIVIL DRAWINGS FOR PAVEMENT SECTION.
- LANDSCAPING/GRASS AREAS
- STAMPED PATTERN - 4" THICK CONCRETE WALK W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. "ROMAN SLATE", INTEGRAL COLOR
- SAFE DISPERSAL AREA

  AREA=5,600 ft²
  5,600 ft² / 5 PER PERSON = 1,120 OCCUPANTS MAX

  SAFE DISPERSAL AREA FOR:

  BUILDING CLUSTER R25 - R26 = 1,920 ft²
  BUILDING CLUSTER R27 - R33 = 6,629 ft²
  BUILDING CLUSTER R34 - R37 = 3,620 ft²
  BUILDING 'K' = 8,160ft²
  SHADE STRUCTURE = 2,094ft²

  (1,920 ft²/20) + (6,629 ft²/20) + (3,620 ft²/20) + (8,160ft²/100) + (2,094ft²/5) = 1,108 OCCUPANTS

  1,108 x 5ft² EA = **5,540ft² MIN. REQUIRED**

BUILDING ANALYSIS

BUILDING "F/F1"
ROOMS R20-R26

Construction Type:.....V-B
Occupancy:.....E (CBC 303.1.3)
Allowable Area:.....9,500 ft²

Actual Area
w/ Overhangs:.....8,383 ft² < 9,500 ft²

Occupant Load:
R.....18
C.....45
C.....46
C.....44
Classroom R23 (913 ft²).....45
Classroom R24 (929 ft²).....46
Classroom R25 (960 ft²).....48
Classroom R26 (960 ft²).....48

Total.....340 OCC

NO WORK NOT IN SCOPE

BUILDING "G"
ROOMS R27-R33

Construction Type:.....V-B
Occupancy:.....E (CBC 303.1.3)
Allowable Area:.....9,500 ft²

Actual Area
w/ Overhangs:.....8,525 ft² < 9,500 ft²

Occupant Load:
Restroom (350 ft²).....18
C.....44
C.....44
C.....44
C.....44
Classroom R31 (897 ft²).....44
Classroom R32 (897 ft²).....44
Classroom R33 (897 ft²).....44

Total.....326 OCC

NO WORK NOT IN SCOPE

BUILDING "L"
ROOMS R34-R37

Construction Type:.....V-B
Occupancy:.....E (CBC 303.1.3)
Allowable Area:.....9,500 ft²

NO WORK NOT IN SCOPE < 9,500 ft²

Occupant Load:
Classroom R34 (900 ft²).....45
Classroom R35 (910 ft²).....46
Classroom R36 (910 ft²).....46
Classroom R37 (900 ft²).....45

Total.....182 OCC

BUILDING 'K' - ADMIN. / LIB. / PARENT CTR.

Construction Type:.....V-B
Occupancy:.....B
Allowable Area:.....9,000 ft²

Actual Building Area.....8,160 ft²
Shade Canopy:.....3,960 ft²
Total.....12,120 ft²

Allowable Area
Frontage.....15,750 ft² > 12,120ft².....OK

Occupant Load:.....81 OCC

Allowable Area Frontage (CBC 506.2.3)

A_a=[A_t+(NSx l_i)]

l_i = [F/P- .025]W/30
l_i = [414/414 - .025]30/30
l_i = .75

A_a=[9,000+(9.000x .75)]
A_a=15,750 ft²

BUILDING 'H, I AND J' - MULTIPURPOSE

BUILDING H

Construction Type:.....V-A
Occupancy:.....E
Allowable Area Factor(A_t):...18,500 ft²
Allowable Area(A_a):.....32,375 ft²
Actual Area:.....3,816 ft²
Occupant Load:.....73 OCC

BUILDING I &J

Construction Type:.....V-A (As)
Occupancy:.....A2
Allowable Area Factor(A_t):...11,500 ft²
Allowable Area(A_a):.....20,125 ft²
Actual Area:.....11,238 ft²
Occupant Load:.....750 OCC

SHADE STRUCTURE

Construction Type:.....V-A
Occupancy:.....A3
Allowable Area Factor(A_t):...11,500 ft²
Allowable Area(A_a):.....20,125 ft²
Actual Area:.....2,094 ft²
Occupant Load:.....419 OCC

Allowable Area Calculation (CBC 506.2.4)

A_a=[A_t+(NSx l_i)]

l_i = [F/P- .025]W/30
l_i = [589/589 - .025]30/30
l_i = .75

BUILDING H
A_a=[18,500+(18,500x .75)]
A_a=32,375 ft²

BUILDING I &J
A_a=[11,500+(11,500x .75)]
A_a=20,125 ft²

SHADE STRUCTURE
A_a=[11,500+(11,500x .75)]
A_a=20,125 ft²

MIXED USE CALCULATION:

3,816 ft² / 32,375 ft² + 11,238 ft² / 20,125 ft² + 2,094 ft² / 20,125 ft² =
.12 + .56 + .10 = **.78 < 1.00 OK**

PARKING ANALYSIS

PARKING LOT 1
27 PARKING SPACES
ACCESSIBLE SPACES REQUIRED (CBC 11B-208.2)..... 2
ACCESSIBLE SPACES PROVIDED..... 2

VAN ACCESSIBLE SPACES REQUIRED (CBC 11B-208.2.4)..... 1
VAN ACCESSIBLE SPACES PROVIDED..... 1

PARKING LOT 2
31 PARKING SPACES
ACCESSIBLE SPACES REQUIRED (CBC 11B-208.2)..... 2
ACCESSIBLE SPACES PROVIDED..... 4

VAN ACCESSIBLE SPACES REQUIRED (CBC 11B-208.2.4)..... 1
VAN ACCESSIBLE SPACES PROVIDED..... 2

PARKING LOT 3
31 PARKING SPACES
ACCESSIBLE SPACES REQUIRED (CBC 11B-208.2)..... 2
ACCESSIBLE SPACES PROVIDED..... 0

VAN ACCESSIBLE SPACES REQUIRED (CBC 11B-208.2.4)..... 1
VAN ACCESSIBLE SPACES PROVIDED..... 0

NOTE: ACCESSIBLE PARKING STALLS FOR PARKING LOT #3 INSTALLED IN PARKING LOT #2 TO PREVENT STREET CROSSING, SEE ABOVE.

PER CBC TABLE 11B-208.2 & 11B-228.3

POT - STATEMENT OF COMPLIANCE

THE PATH OF TRAVEL (POT) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR **"PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS".**

AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED TO DETERMINE COMPLIANCE WITH THESE REQUIREMENTS. ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-CONFORMING, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT.

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

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RICHARD MEYER
No. C18079
REN. 10/21
STATE OF CALIFORNIA

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT
Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	htm/cz
CHK'D BY:	rRr/RM
ISSUE DATE:	11/21/2019

SHEET TITLE

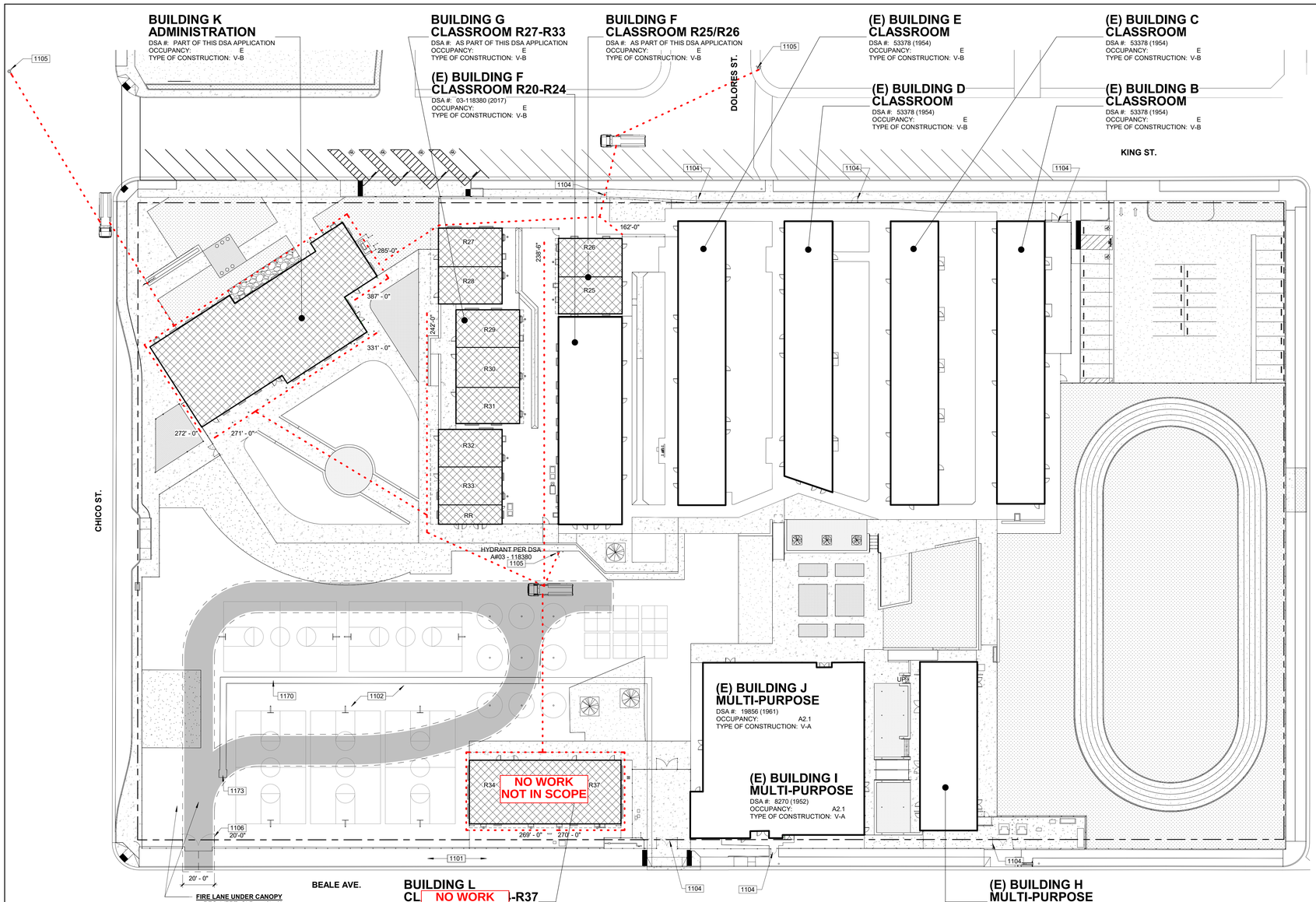
OVERALL SITE PLAN & BUILDING ANALYSIS

SHEET NUMBER

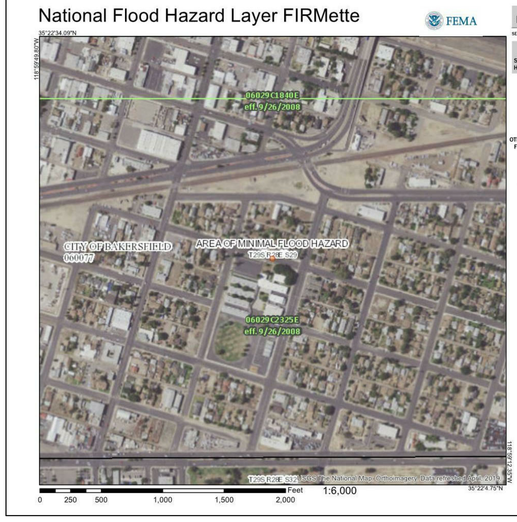
PHASE III

G1100

PLOT DATE: 2020-03-06 1:45:25 PM C:\Users\cmora.arregoz\Documents\BE\T120184-TH-118934-BessieOwens\MS_Site 06-26-19_v2016_carlos.zaragoza.rvt



1 FIRE ACCESS PLAN
1" = 30'-0"



CHICO ST. / KING ST. HYDRANT

California Water Service Company
Fire Flow Test
8/13/2019

Test Date: 08/12/2019 Time: 9:15
District: BAKERSFIELD Zone: 540 Plat: 31-38
Address: 815 EUREKA ST
Cross Street: DOLORES ST
Requested By: BCSD
Conducted By: ROBERT BROWN
Purpose Of Test: FIRE FLOW
Witnessed By: Callender:
Others: DAN PEREZ/CITY

Outlet No.	Outlet Size	PITOT	Observed	Static Pressure	Residual Pressure	Flow Observed	Flow Avail. @20
Location 1 Hydrant No. 5966			Address: 827 CHICO ST				
1	4.00	22	2015	50	40	2015	3646
2							
3							
4							
Location 2 Hydrant No.:			Address:				
1							
2							
3							
4							
Location 3 Hydrant No.			Address:				
1							
2							
3							
4							

Total Flow Observed Available @20: 2015 3646

Remarks: 1920 GPM

Static/Residual Location: 10:15 AM FH # 2826 @ 329 DOLORES ST

Note:
Regardless of the results of this test, California Water Service Company assumes no liability beyond that stated in the following excerpt from the P.U.C. Tariff Schedule: "The utility (California Water Service Company) will supply only such water at such pressure as may be available from time to time as a result of its normal operation of the system."

KING ST. / DOLORES ST. HYDRANT

Hydrant Flow Test Report
Test Date 8/12/2019 **Test Time** 9:15 AM

Location: 815 Eureka St.
Tested by: DP, HA, DT, RB

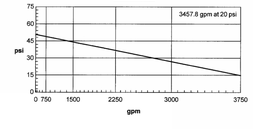
Notes
Flow hydrant is located on the corner of Dolores St and King St. Ready hydrant is located 550 ft north of flow hydrant.

Read Hydrant
51 psi **static pressure**
42 psi **residual pressure**
412 ft **hydrant elevation**

Flow Hydrant(s)

Outlet	Elev	Size	C	Pitot Pressure	Flow
#1	410	4	0.9	17	1772 gpm

Flow Graph



Created with the free hydrant flow test program from www.ignevainc.com

ON CAMPUS HYDRANT

Hydrant Flow Test Report
Test Date 8/12/2019 **Test Time** 9:00 AM

Location: 815 Eureka St
Tested by: DP, HA, DT, RB

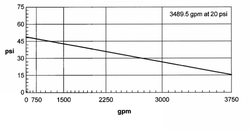
Notes
Read hydrant is located on the northwest corner of Dolores St and King St. Flow hydrant is located 330 ft to the east of read hydrant.

Read Hydrant
49 psi **static pressure**
43 psi **residual pressure**
411 ft **hydrant elevation**

Flow Hydrant(s)

Outlet	Elev	Size	C	Pitot Pressure	Flow
#1	411	4	0.9	12	1489 gpm

Flow Graph



Created with the free hydrant flow test program from www.ignevainc.com

1000-GENERAL NOTES

1. REFER TO CIVIL, PLUMBING, AND ELECTRICAL DRAWINGS FOR UNDERGROUND UTILITIES.
2. PRIOR TO ANY UNDERGROUND SITE WORK, VERIFY LOCATION OF ALL EXISTING UTILITIES WITH UNDERGROUND SERVICE ALERT (U.S.A.).

KEYNOTES

1101	(E) CONCRETE WALK TO REMAIN
1102	(E) A.C. PAVED AREA TO REMAIN
1104	(E) PEDESTRIAN GATE TO REMAIN. SIZE AS SPECIFIED
1105	(E) FIRE HYDRANT TO REMAIN
1106	(E) FIRE ACCESS GATE TO REMAIN, SIZE AS SPECIFIED. PROVIDE KNOX BOX PER DETAIL 9/1A8000.
1170	(E) CONCRETE V GUTTER TO REMAIN
1173	(E) DRAIN

LEGEND

- FIRE DEPARTMENT ACCESS. WIDTH 20'-0"
- PROPERTY LINE
- FIRE HOSE PATH. OVERALL LENGTH AS SPECIFIED
- EXISTING BUILDING TO REMAIN
- NEW BUILDING TO BE CONSTRUCTED AS PART OF DSA APPLICATION NUMBER
- SEE SITE PLAN FOR ALL FLOOR TYPE DESIGNATIONS

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1–3 below is to be provided for all project types indicated above. Information associated with items 4–7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the local fire authority (LFA) is only required when an alternate design means is being requested.

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 and 2 are to be imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy 09-01.

PROJECT INFORMATION	
School District/Owner:	Bakersfield City School District
Project Name/School:	Bessie Owens Junior High School
Project Address:	815 Potomac Ave; Bakersfield, CA 93307

FIRE & LIFE SAFETY INFOMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☑		No ☐
3.	Is the project located within a designated fire hazard severity zone as established by Cal-Fire? *(If yes, indicate fire hazard zone classification below)*	Yes ☐		No ☑
	Refer to the following for fire hazard zone locations: www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED		
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			☒	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			☒	
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			☒	
6a.	**Acceptable Alternate**: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			☒	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT — Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	htm/cz
CHK'D BY:	rRr/RM
ISSUE DATE:	11/21/2019

SHEET TITLE
FIRE ACCESS

SHEET NUMBER
PHASE III
G1200

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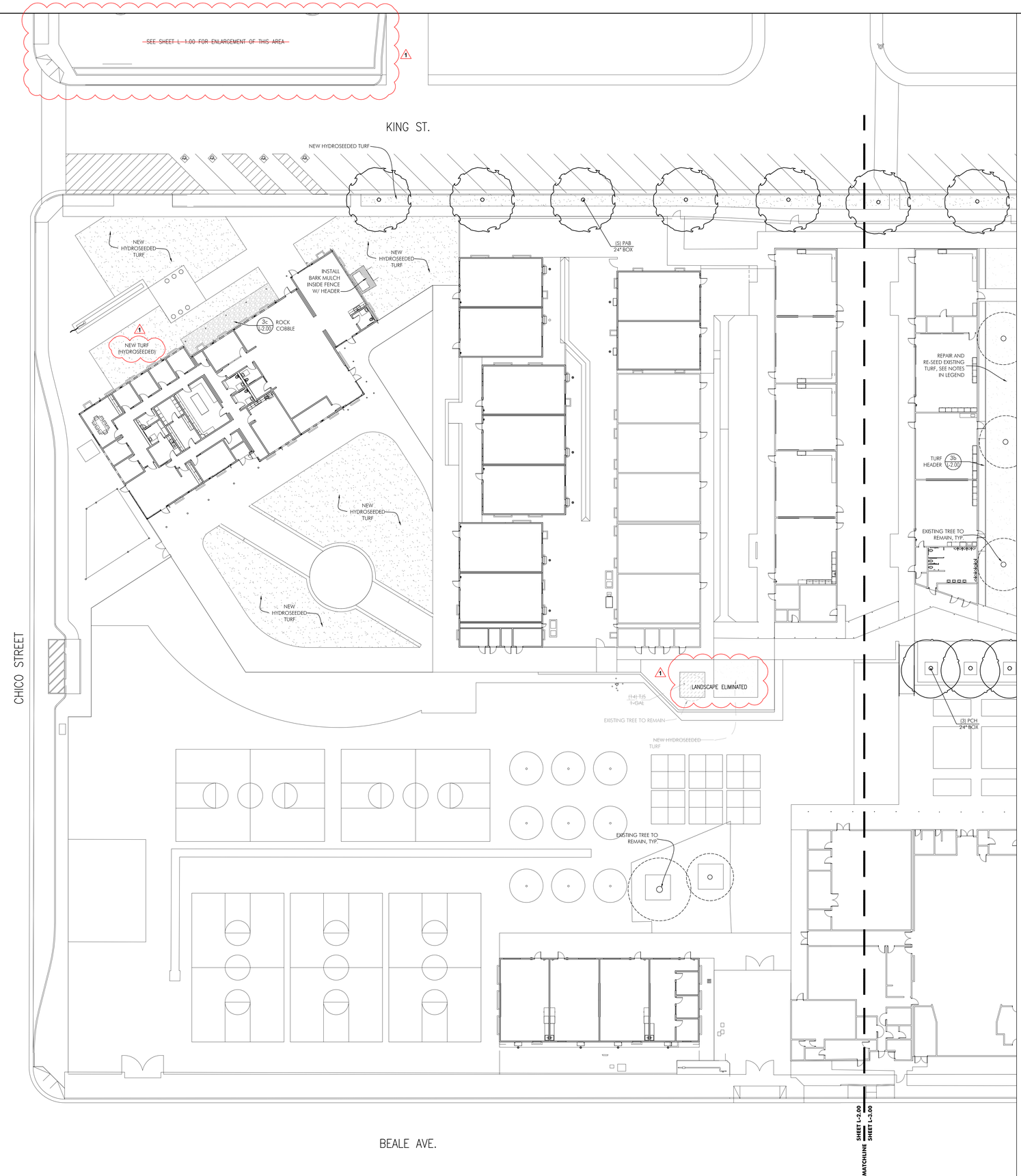


PLANT LEGEND

TREES

BOTANICAL / COMMON NAME		WUCOLS	QTY.	SIZE	NOTES
PCH	Pistacia chinensis CHINESE PISTACHE	L	3	24" BOX	DETAIL 2a, 2b, 2c SHEET L-7.00
PAB	Platanus x acerifolia 'Bloodgood' LONDON PLANE	M	8	24" BOX	DETAIL 2a, 2b, 2c

SHRUBS

BOTANICAL / COMMON NAME		WUCOLS	QTY.	SIZE	NOTES
TJS	~~Trachelospermum jasminoides STAR JASMINE~~	~~M~~	~~14~~	~~1 GAL~~	~~DETAILS 1, 3b~~
			3' O.C.		

1

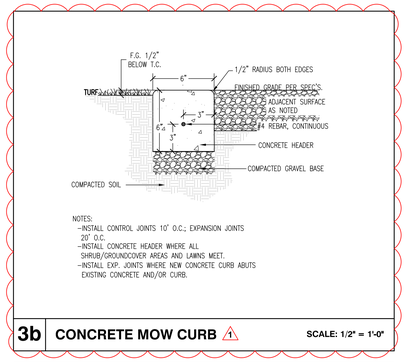
NEW TURF - SEE PLAN FOR TYPE (SODDED OR SEEDED) REFER TO SPECIFICATION SECTIONS 32 90 20 & 32 90 30 1

TURF RE-SEEDING & REPAIR NOTES

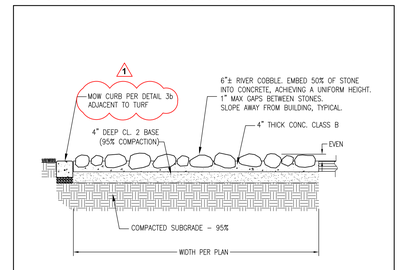
1. WHERE SHOWN ON PLANS, CONTRACTOR SHALL SCALP EXISTING TURF AREAS AND RE-SEED. FILL IN ANY HOLES AND LOW SPOTS WITH AMENDED TOPSOIL WHERE NECESSARY.
2. SOD SHALL BE PURCHASED BY DISTRICT AND INSTALLED BY CONTRACTOR (LARGE ROLL SOD). 1

PLANTING NOTES

1. INSTALL BARK MULCH IN ALL PLANTING AREAS. MULCH SHALL BE A MINIMUM 3" THICK IN SHRUB AREAS AND 1" THICK IN ALL FLATTED GROUND COVER AREAS.
2. QUANTITIES/SIZES SHOWN IN THE PLANT LEGEND ARE FOR REFERENCE ONLY. IN THE EVENT OF DISCREPANCIES, THE ACTUAL PLAN COUNT/SIZE SHALL PREVAIL.
3. REVIEW THE PLANTING AND IRRIGATION SPECIFICATIONS PRIOR TO BIDDING. IF NOT PROVIDED, CONTACT THE LANDSCAPE ARCHITECT.



3b CONCRETE MOW CURB 1 — SCALE: 1/2" = 1'-0"



3c COBBLE PAVING — SCALE: 1/2" = 1'-0"

SCALE: 1" = 20'-0"

0' 20' 40' 60'

LANDSCAPE ARCHITECTS SEAL

AGENCY INFORMATION:

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	CH
CHK'D BY:	MLC
ISSUE DATE:	

SHEET TITLE

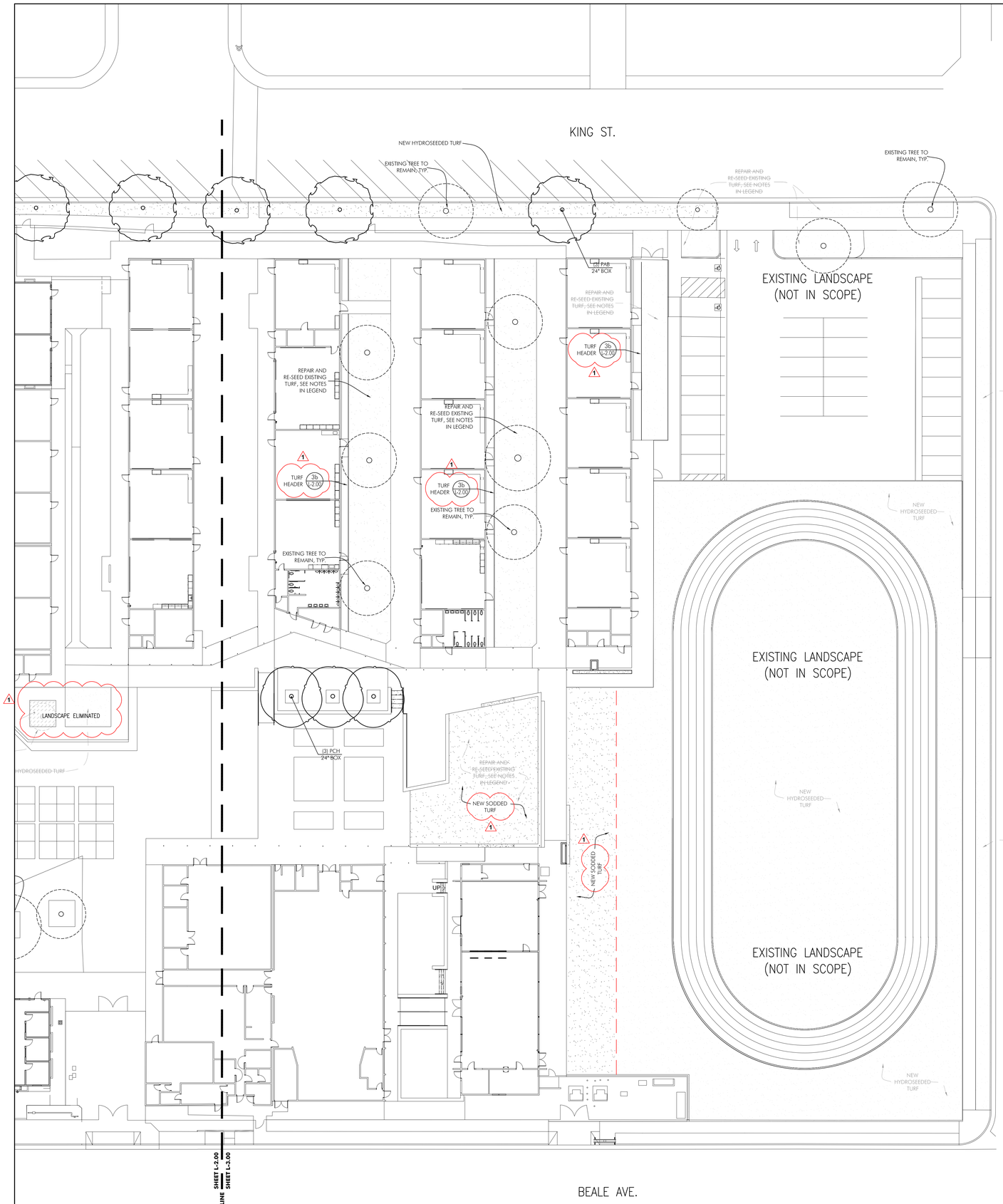
PLANTING PLAN

SHEET NUMBER

PHASE III

L-2.00

PLOT DATE: 2019-11-12 2:21:40 PM C:\Users\ruben.ruiz\Documents\ATW-v118934-BessieOwensMS_Site 06-26-19_v2019_ruben.ruiz.rvt



PLANT LEGEND

TREES

	BOTANICAL / COMMON NAME		WUCOLS	QTY.	SIZE	NOTES
PCH	Pistacia chinensis	CHINESE PISTACHE	L	3	24" BOX	DETAIL 2a, 2b, 2c SHEET L-7.00
PAB	Platanus x acerifolia 'Bloodgood'	LONDON PLANE	M	8	24" BOX	DETAIL 2a, 2b, 2c

NEW TURF - SEE PLAN FOR TYPE (SODDED OR SEEDED)
REFER TO SPECIFICATION SECTIONS 32 90 20 & 32 90 30 1

TURF RE-SEEDING & REPAIR NOTES

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3. REVIEW THE PLANTING AND IRRIGATION SPECIFICATIONS PRIOR TO BIDDING. IF NOT PROVIDED, CONTACT THE LANDSCAPE ARCHITECT.

SCALE: 1" = 20'-0"
0' 20' 40' 60'

LANDSCAPE ARCHITECTS SEAL
PROJECT DESCRIPTION: 1. OPSC 2. SCHOOL 3. NEW CONSTRUCTION
11/30/23
3/18/2026
STATE OF CALIFORNIA

AGENCY INFORMATION:

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	CH
CHK'D BY:	MLC
ISSUE DATE:	

SHEET TITLE

PLANTING PLAN

SHEET NUMBER

PHASE III

L-3.00

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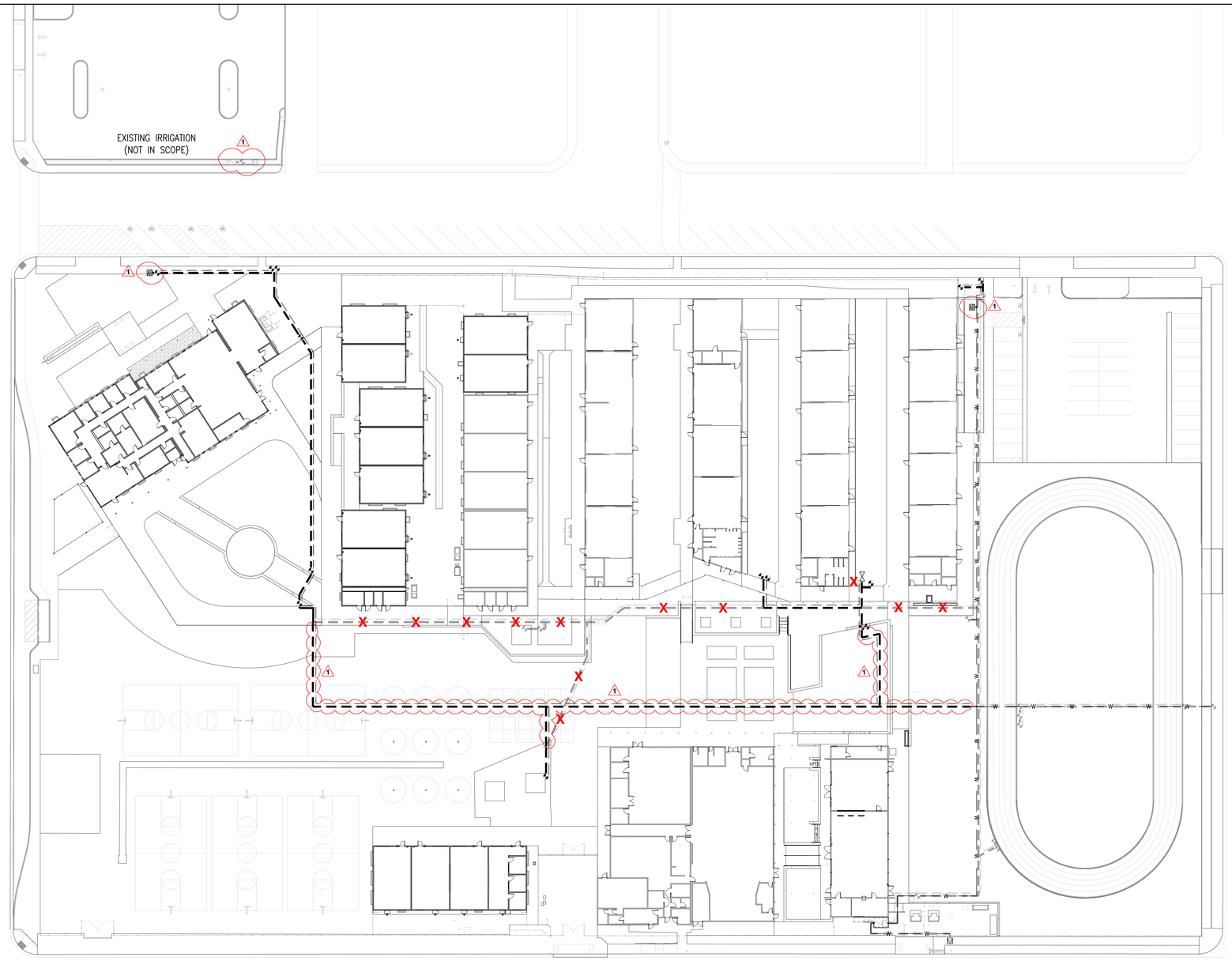

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	NOTE
⋈	KBI BTU-TE BALL VALVE (4")	SEE DETAIL 8, SHEET L-7.00
▬ ▬	MAINLINE CL.315 PVC PIPE	4" UNLESS NOTED OTHERWISE.
═ ═	SCH. 40 PVC WIRE SLEEVE (1")	WITH SWEEP ELLS AT ALL TURNS.
—W—	EXISTING MAINLINE TO REMAIN	EXISTING MAINLINE REMOVED —X—

SCALE: 1" = 30'-0"

0' 30' 60' 90'

LANDSCAPE ARCHITECTS SEAL

AGENCY INFORMATION:

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4119 Broad Street, Suite 210
San Luis Obispo, CA 93401
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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	BB
CHK'D BY:	MLC
ISSUE DATE:	

SHEET TITLE

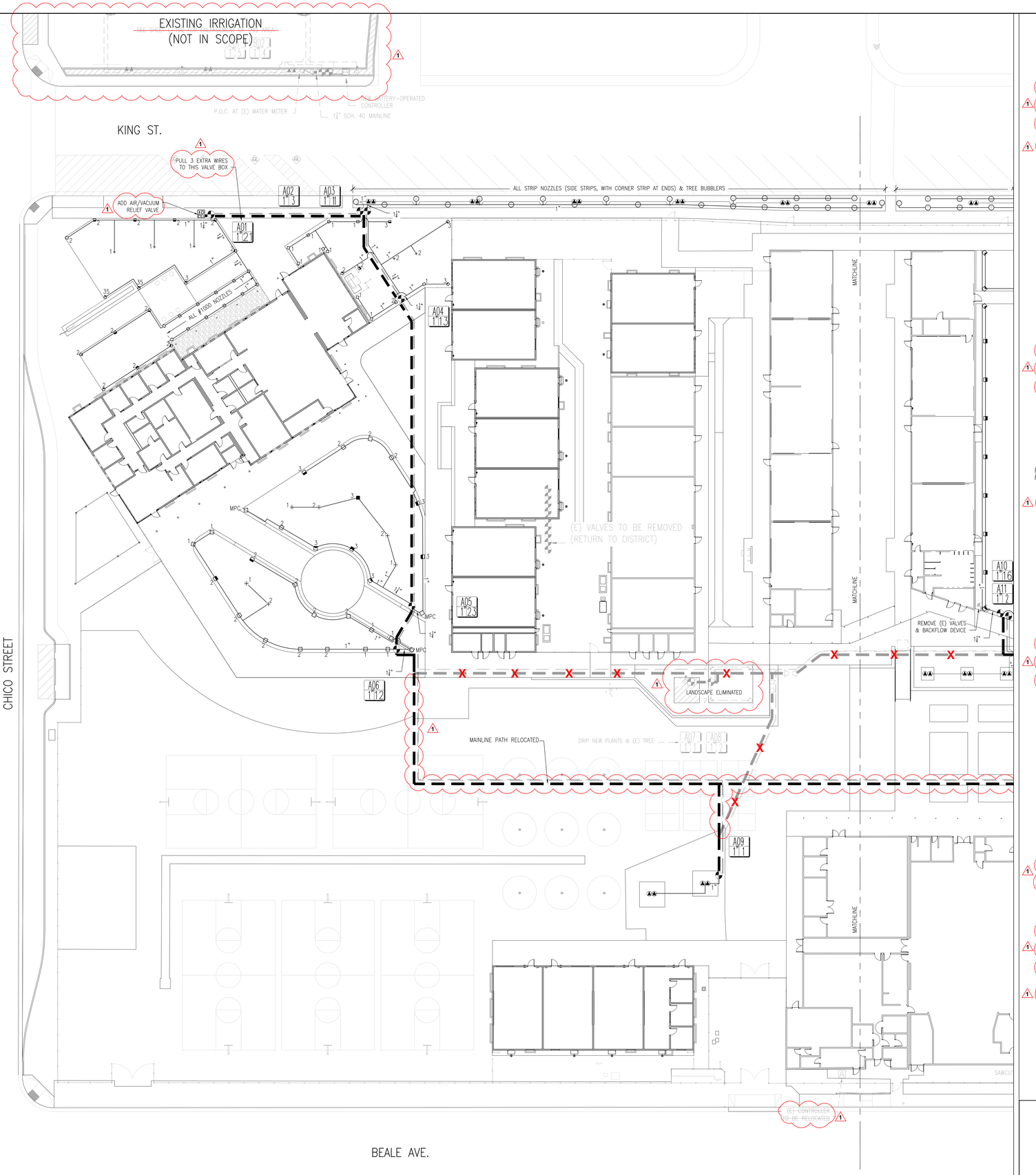
IRRIGATION MAINLINE PLAN

SHEET NUMBER

PHASE III

L-4.00

PLOT DATE: 2019-11-12 2:21:40 PM C:\Users\ruben.ruiz\Documents\ATW-118934-BessieOwensMS_Site 06-26-19_v2018_ruben.ruiz.rvt



IRRIGATION LEGEND

SYMBOL	DESCRIPTION	NOTE
A	~~CALSENSE ET2000 AUTO. CONTROLLER (EXISTING, TO BE RELOCATED) WITH NEW TP-1 TRANSIENT PROTECTION BOARD & RAIN SENSOR. INSTALL IN V.I.T. #SS-24SS-PED-FAN-RGVRSS.~~	~~EXISTING. NOT IN SCOPE.~~
S	~~HUNTER MINI-CLIK RAIN SENSOR.~~	~~EXISTING. NOT IN SCOPE.~~
N	~~FEBCO #880V REDUCED PRESSURE BACKFLOW PREVENTER – 4" SIZE WITH VALVE SETTER~~	~~EXISTING. NOT IN SCOPE.~~
	IRRITROL 100 SERIES ELECTRIC VALVE SIZE PER VALVE KEY	REFER TO DETAIL 6, SHEET L-7.00
	IRRITROL 700DK-1-LF/MF DRIP CONTROL ZONE (LF FOR <4 GPM/MF FOR 4-20 GPM)	REFER TO DETAIL 10, SHEET L-7.00
	KBI BTU-TE BALL VALVE (4")	INSTALL PER DETAIL 8, SHEET L-7.00
	MAINLINE CL.315 PVC PIPE	4" UNLESS NOTED OTHERWISE. REFER TO DETAIL 9, SHEET L-7.00
	SCH. 40 PVC PIPE & WIRE SLEEVE	SEE NOTES #8 & #13.
	LATERAL LINE SCH. 40 PVC PIPE MINIMUM PIPE SIZE = 1".	SEE NOTE # 9. REFER TO DETAIL 9, SHEET L-7.00
	DRIPLINE 5/8" I.D. POLY. PIPE (TORO BLUE STRIPE) WITH TORO NGE-PC EMITTERS	REFER TO DETAIL 11, SHEET L-7.00 SEE NOTE NO. 1
	PVC TO POLY DRIPLINE ADAPTER	INSTALL PER DETAIL 12, SHT. L-7.00
	~~VFD BOOSTER PUMP, 208-240v, 5 H.P., 3-PHASE (30 PSI BOOST AT 100 GPM)~~	~~EXISTING. NOT IN SCOPE.~~
	~~GRISWOLD 2000N MASTER VALVE (3") WITH 2 CALSENSE FM-B FLOW SENSORS (ONE #FM-15-A-SNS-BPM-PR)~~	~~EXISTING. NOT IN SCOPE.~~
AR	CRISPIN #C10A AIR RELIEF VALVE, 1" SIZE	INSTALL BELOW F.G. IN VALVE BOX.

IRRIGATION HEADS

SYMBOL	DESCRIPTION	PSI	RADIUS (FT.)	FLOW (GPM)	PRECIP (IN/HR)
#□□□ + #■■■	RAINBIRD 1806-SAM-P45 POP-UP SPRAY WITH HUNTER MP ROTATOR NOZZES – SEE DETAIL 13. (# = NOZZLE TYPE. 1 = MP1000, 2 = MP2000, 3 = MP3000, MCP = MP CORNER)	45	8'-35'	.23-3.86	~.44
~~#□ #■~~	~~HUNTER I20-06-SS POP-UP TURF ROTOR (SEE PLAN FOR NOZZLE NUMBERS) – SEE DETAIL 14.~~	~~45~~	~~30'-34'~~	~~3-5~~	~~.46-.55~~
	HUNTER RZWS-36-25 ROOT WATERING SYSTEM INSTALL 2 PER TREE – SEE DETAIL 15.	30	BUBBLER	.25 x 2	N.A.

IRRIGATION NOTES

1. 2- 1 GPH EMITTERS/1 GAL., 3- 1 GPH/5 GAL., 2- 2 GPH/15 GAL., 3- 2 GPH/24" BOX, 4- 2 GPH/36" BOX. INSTALL EMITTERS AT EQUAL DISTANCE AROUND ROOTBALL.

2. IRRIGATION PLANS ARE DIAGRAMMATIC! ACTUAL LINE AND HEAD PLACEMENT SHALL BE DETERMINED ON SITE DURING CONSTRUCTION. CONTRACTOR SHALL ADJUST NOZZLE RADIUS (TO ACHIEVE 100% COVERAGE) BASED ON PLAN LAYOUT & IN-FIELD DIMENSIONS.

3. POINT OF CONNECTION (P.O.C.) AT EXISTING ~~3" METER MAINLINE STUB OUT SHALL BE PROVIDED~~ BY ~~GEN.~~ LANDSCAPE CONTRACTOR. REFER TO ~~ENGINEERING~~ PHASE 2 AS-BUILT DRAWINGS FOR ADDITIONAL INFORMATION.

4. ~~120v ELECTRICAL FOR AUTOMATIC CONTROLLER SHALL BE STUBBED OUT BY ELEC. CONTRACTOR. FINAL HOOKUP TO NEW CLOCK SHALL BE BY LANDSCAPE CONTRACTOR. ELEC. FOR BOOSTER PUMP SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR (COMPLETE).~~

5. SYSTEM DESIGN BASED ON 70 P.S.I. STATIC WATER PRESSURE (100 P.S.I. WITH PUMP). MINIMUM OPERATING PRESSURE SHALL BE 30 P.S.I. FOR DRIP, & BUBBLERS, & 45-60 PSI FOR ROTORS. VERIFY WATER PRESSURE PRIOR TO INSTALLATION. ~~SEE BOOSTER PUMP REQUIREMENTS.~~

6. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR 100% COVERAGE AT NO ADDITIONAL COST TO OWNER. SITE DIMENSIONS SHOULD BE THOROUGHLY CHECKED BY CONTRACTOR PRIOR TO BIDDING AND CONSTRUCTION. DISCREPANCIES SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.

7. REFER TO THE SPECIFICATIONS PRIOR TO BIDDING AND CONSTRUCTION (DOCUMENTS ARE INCOMPLETE WITHOUT SPECIFICATIONS).

8. ALL LINES UNDER PAVING SHALL BE SLEEVED. CONTRACTOR SHALL INSTALL SLEEVES IN STRAIGHT LINES FROM PLANTER TO PLANTER. PLACE DESIGNATED LINE INSIDE SLEEVE PRIOR TO INSTALLATION. SLEEVES SHALL BE 2x LINE SIZE.

9. PIPE SIZES SHOWN ON THE PLAN CONTINUE DOWNSTREAM, TO THE NEXT SIZE LABEL, TYPICAL.

10. INSTALL ALL VALVE BOXES & QUICK COUPLER VALVE BOXES WITHIN 12" OF WALKWAY (UNLESS SHOWN OTHERWISE).

11. IRRIGATION EQUIPMENT MAY BE SHOWN OUTSIDE OF PLANTERS FOR CLARITY. INSTALL ALL EQUIPMENT IN PLANTERS UNLESS NOTED OTHERWISE.

12. ~~ALL FIELD ROTARY SPRINKLER LOCATIONS SHALL BE FLAGGED BY A LICENSED SURVEYOR USING GPS, PRIOR TO INSTALLATION. A CAD FILE SHOWING THE PROPOSED LOCATIONS SHALL BE PROVIDED BY THE LANDSCAPE ARCHITECT FOR THE SURVEYOR'S USE. NO EXCEPTIONS. PERIMETER HEADS SHALL BE SET 3" FROM EDGE AS SHOWN ON ROTOR DETAIL.~~

13. ALL CONTROL WIRES SHALL BE IN SCH. 40 CONDUIT (MIN. 1" SIZE WITH SWEEP ELLS AT ALL TURNS).

14. ~~INSTALL NEW BACKFLOW DEVICE & BOOSTER PUMP ON NEW 4" THK. CONCRETE PAD, LEVEL & FLUSH WITH (E) CONCRETE. INSTALL 8" X 8" THICKENED EDGE AND/OR CURB WALL AT PERIMETER (MIN. DEPTH BELOW GRADE = 6"). PAD SHALL BE POURED OVER 4" DEEP CLASS 2 BASE (95% COMPACTION) AND COMPACTED SUBGRADE (95%). INSTALL EXPANSION JOINT FELT BETWEEN NEW PAD AND (E) BUILDING WALL (FULL DEPTH). PATCH (E) A.C. WHERE REQ'D., SLOPE TO (E) AT 3:1 MAX.~~

15. ~~BOOSTER PUMP REQUIRES CONTROL WIRES FROM AUTOMATIC CONTROLLER TO PUMP (START RELAY). INSTALL IN SCH. 40 CONDUIT ALONG MAINLINE PATH (PER NOTE #13).~~

16. USE SCH. 80 PVC SLIP FITTINGS FOR ALL PIPE SIZES 2½" & LARGER (ALL SIZES THREADED FITTINGS SHALL BE SCH. 80 PVC). REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

VALVE KEY

A00 — VALVE & CONTROLLER STA.#
VALVE SIZE 1"/4.00 — GALLONS PER MINUTE

SCALE: 1" = 20'-0"
0' 20' 40' 60'

LANDSCAPE ARCHITECTS SEAL
11/30/23
3/18/2020

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1	10-18-2022	-	ADDENDUM 001

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BAKERSFIELD CITY SCHOOL DISTRICT

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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	BB
CHK'D BY:	MLC
ISSUE DATE:	

SHEET TITLE

IRRIGATION PLAN

SHEET NUMBER

PHASE III

L-5.00

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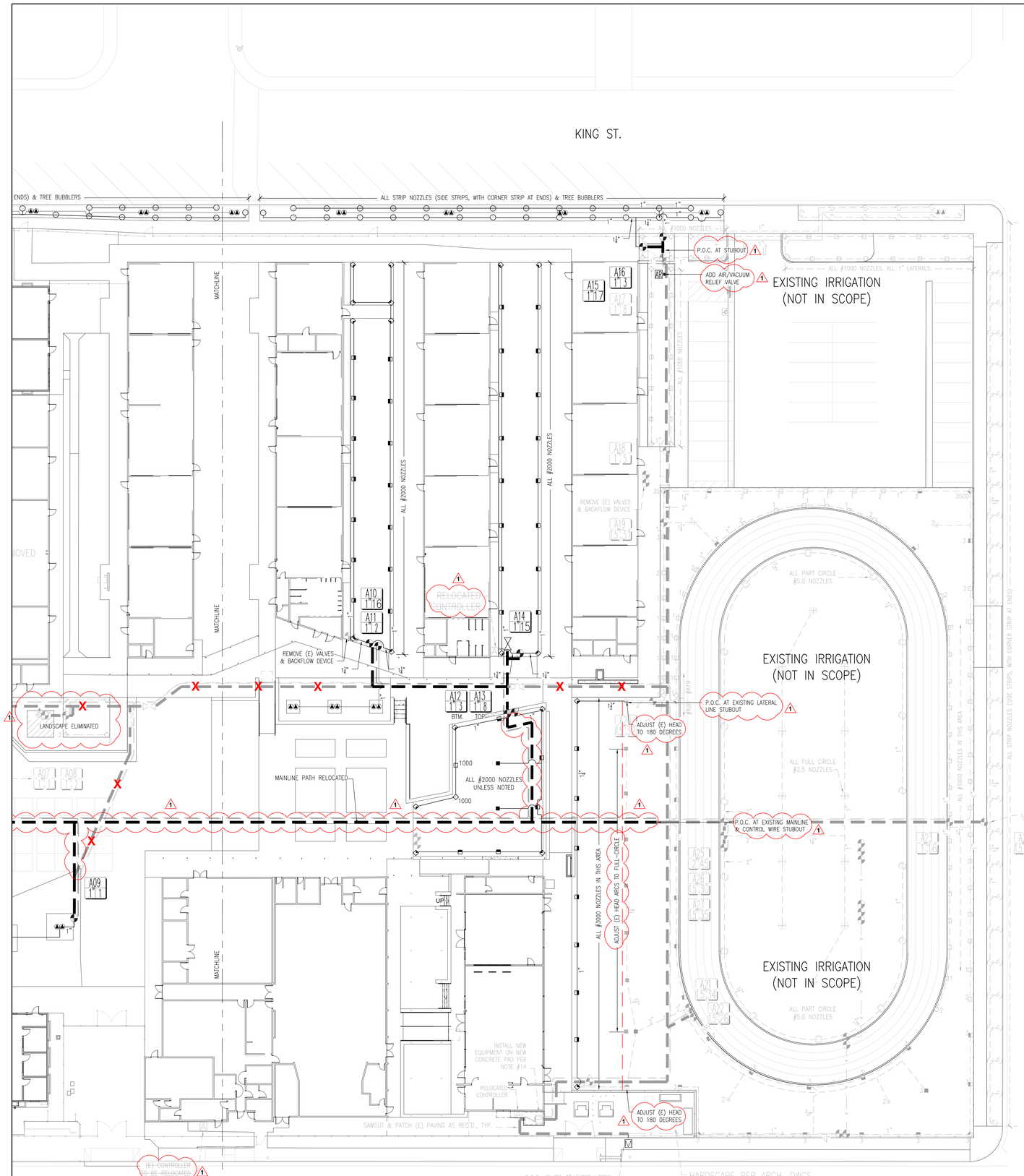

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	NOTE
[A]	~~CALSENSE ET2000 AUTO. CONTROLLER (EXISTING, TO BE RELOCATED) WITH NEW TP-1 TRANSIENT PROTECTION BOARD & RAIN SENSOR. INSTALL IN V.I.T. #SB-24SS-PED-FAN-RGVRSS.~~	EXISTING. NOT IN SCOPE.
[S]	~~HUNTER MINI-CLIK RAIN SENSOR.~~	EXISTING. NOT IN SCOPE.
[M]	~~FEBCO #880V REDUCED PRESSURE BACKFLOW PREVENTER – 4" SIZE WITH VALVE SETTER~~	EXISTING. NOT IN SCOPE.
	IRRITROL 100 SERIES ELECTRIC VALVE SIZE PER VALVE KEY	REFER TO DETAIL 6, SHEET L-7.00
	IRRITROL 700DK-1-LF/MF DRIP CONTROL ZONE (LF FOR <4 GPM/MF FOR 4-20 GPM)	REFER TO DETAIL 10, SHEET L-7.00
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	SCH. 40 PVC PIPE & WIRE SLEEVE	SEE NOTES #8 & #13.
	LATERAL LINE SCH. 40 PVC PIPE MINIMUM PIPE SIZE = 1".	SEE NOTE # 9. REFER TO DETAIL 9, SHEET L-7.00
	DRIPLINE 5/8" I.D. POLY. PIPE (TORO BLUE STRIPE) WITH TORO NGE-PC EMITTERS	REFER TO DETAIL 11, SHEET L-7.00 SEE NOTE NO. 1
	PVC TO POLY DRIPLINE ADAPTER	INSTALL PER DETAIL 12, SHT. L-7.00
[P]	~~VFD BOOSTER PUMP, 208-240v, 5 H.P., 3-PHASE (30 PSI BOOST AT 100 GPM).~~	EXISTING. NOT IN SCOPE.
[V]	~~GRISWOLD 2000N MASTER VALVE (3") WITH 2 CALSENSE FM-B FLOW SENSORS (ONE #SM-15-A-ORE #FM-09).~~	EXISTING. NOT IN SCOPE.
AIR	CRISPIN #C10A AIR RELIEF VALVE, 1" SIZE	INSTALL BELOW F.G. IN VALVE BOX.

IRRIGATION HEADS

SYMBOL	DESCRIPTION	PSI	RADIUS (FT.)	FLOW (GPM)	PRECIP (IN/HR)
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	~~HUNTER I20-06-SS POP-UP TURF ROTOR (SEE PLAN FOR NOZZLE NUMBERS) SEE DETAIL 14.~~	~~45~~	~~30'-34'~~	~~3-5~~	~~.46-.55~~
	HUNTER RZWS-36-25 ROOT WATERING SYSTEM INSTALL 2 PER TREE – SEE DETAIL 15.	30	BUBBLER	.25 x 2	N.A.

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VALVE SIZE — GALLONS PER MINUTE

SCALE: 1" = 20'-0"

0' 20' 40' 60'

LANDSCAPE ARCHITECTS SEAL

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SHEET TITLE

IRRIGATION PLAN

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PHASE III

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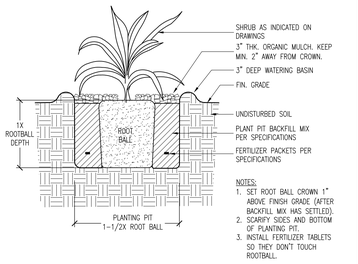
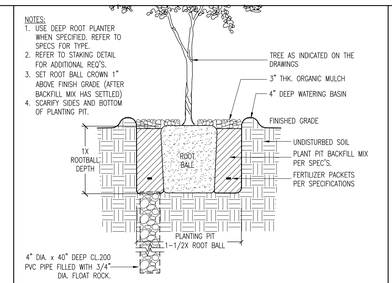
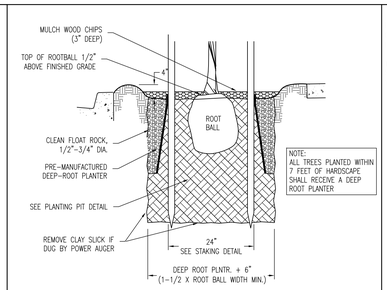


1 TYPICAL SHRUB PLANTING — NOT TO SCALE



2a TYPICAL TREE PLANTING — NOT TO SCALE



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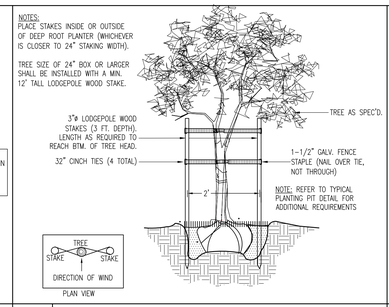

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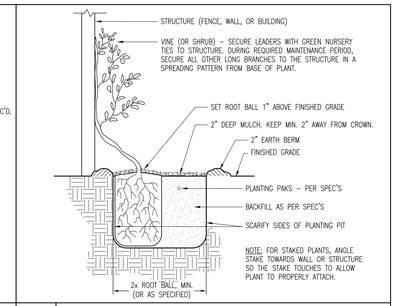
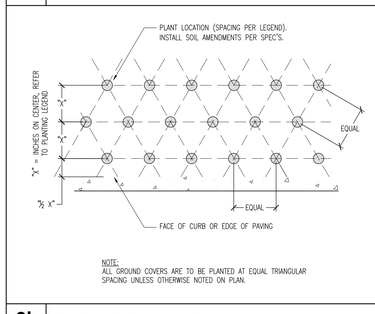
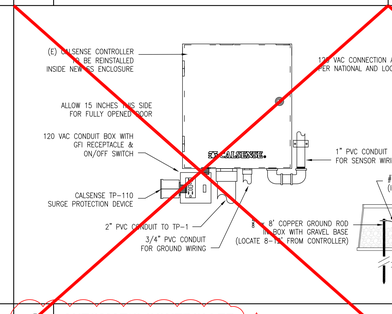


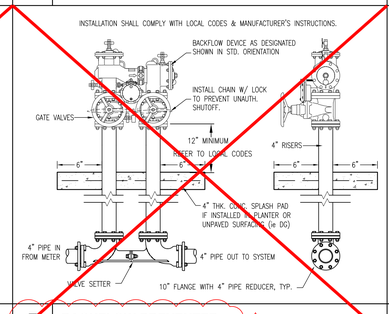
3a VINE INSTALLATION — NOT TO SCALE



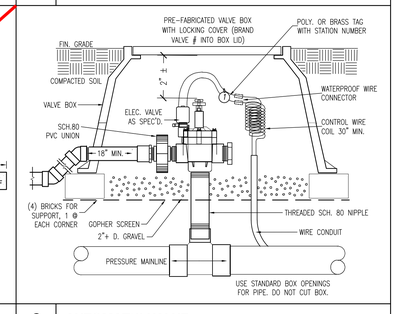
3b GROUNDCOVER LAYOUT — NOT TO SCALE



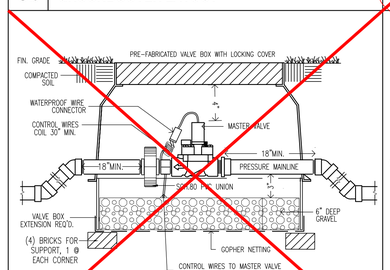
4 AUTOMATIC CONTROLLER 1 — NOT TO SCALE



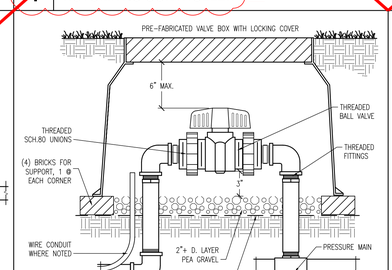
5 BACKFLOW PREVENTER 1 — NOT TO SCALE



6 AUTOMATIC VALVE — NOT TO SCALE



7 MASTER VALVE 1 — NOT TO SCALE



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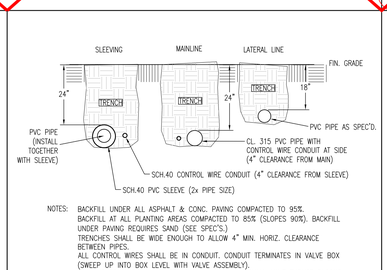
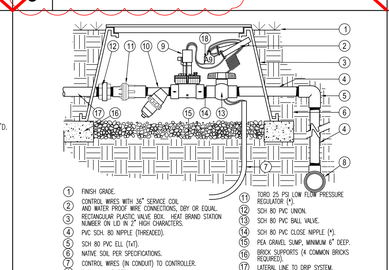
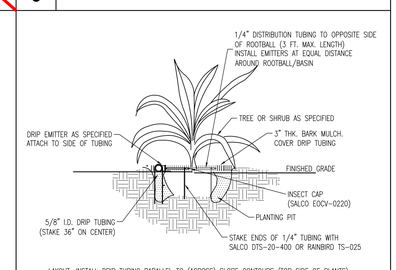


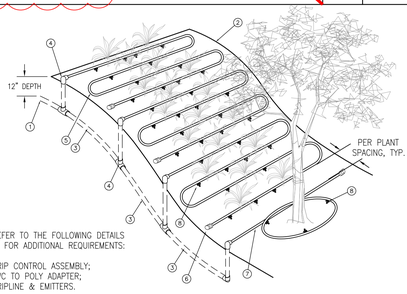
9 TYPICAL PIPE TRENCHING — NOT TO SCALE



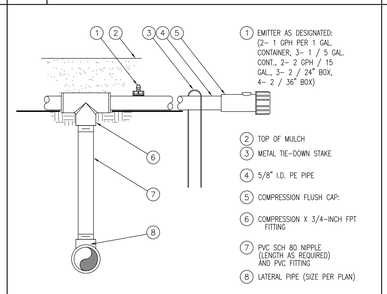
10 DRIP CONTROL ASSEMBLY — NOT TO SCALE



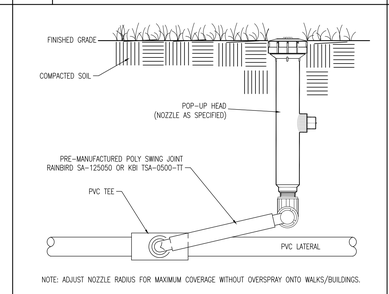
11a DRIP LINE & EMITTERS — NOT TO SCALE



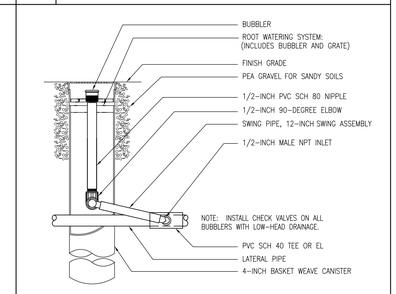
11b DRIP LINE & EMITTERS — NOT TO SCALE



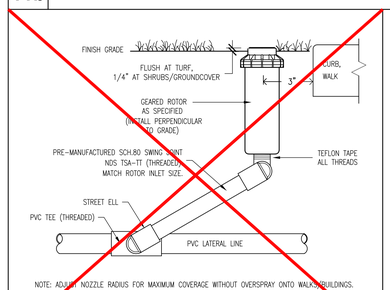
12 PVC TO POLY ADAPTER — NOT TO SCALE



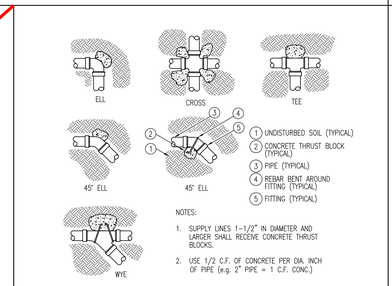
13 POP-UP SPRINKLER — NOT TO SCALE



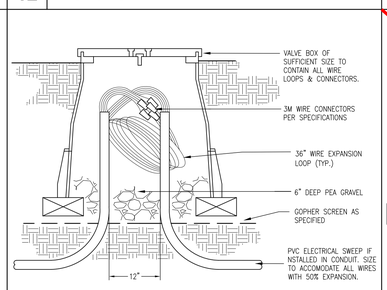
14 TREE BUBBLER — NOT TO SCALE



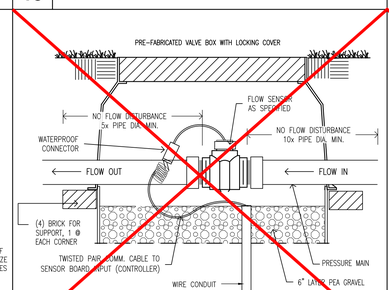
15 POP-UP ROTOR HEAD 1 — NOT TO SCALE



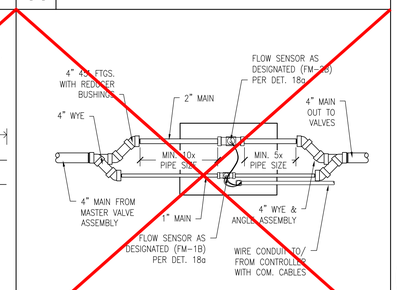
16 THRUST BLOCKS — NOT TO SCALE



17 CONTROL WIRE PULL BOX — NOT TO SCALE



18a FLOW SENSOR 1 — NOT TO SCALE



18b FLOW SENSOR MANIFOLD LAYOUT 1 — NOT TO SCALE

LANDSCAPE ARCHITECTS SEAL

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	BB
CHK'D BY:	MLC
ISSUE DATE:	

SHEET TITLE

LANDSCAPE DETAILS

SHEET NUMBER

PHASE III

L-7.00

PLOT DATE: 2019-11-12 2:21:40 PM C:\Users\ruben.ruiz\Documents\ATTW-118934-BessieOwensMS_Site (06-20-19_v2018_ruben.ruiz.rvt

ABBREVIATIONS

TYPICAL ALL SHEETS UNLESS SUPERSEDED BY SHEET DEFINITION

(E)	EXISTING
(N)	NEW
FG	FINISHED GROUND
FS	FINISHED SURFACE
FP	FINISHED PAD
FF	FINISHED FLOOR
NG or OG	NATURAL/ORIGINAL GROUND
EP	EDGE OF ASPHALT CONCRETE PAVEMENT
AC	TOP OF ASPHALT CONCRETE PAVEMENT
AB	AGGREGATE BASE
ASB	AGGREGATE SUB-BASE
CL	CENTERLINE
FL	FLOWLINE
GB	GRADE BREAK
TOG	TOP OF GRATE/CATCH BASIN INLET
TOC	TOP OF CONCRETE
CONC	CONCRETE
BW	BACK OF SIDEWALK
TC	TOP OF CURB
BCR	BEGIN CURB RETURN
ECR	END CURB RETURN
PI	POINT OF INTERSECTION
~	ON THIS SHEET
MAX	MAXIMUM
MIN	MINIMUM
TYP	TYPICAL
EL or ELEV	ELEVATION
BDRY	BOUNDARY
R	RADIUS
L	LENGTH
AF	ACRE-FEET
SF	SQUARE FEET
LF	LINEAR FEET
EA	EACH
CY	CUBIC YARDS
ESMT	EASEMENT
RW	RIGHT-OF-WAY
SD	STORM DRAIN
CB	CATCH BASIN
SWR	SANITARY SEWER
MH	MANHOLE
WTR	WTR
G	GAS
REQ'D	REQUIRED

BENCHMARK USED

TOP OF CONCRETE MONUMENT AT THE INTERSECTION OF KING STREET AND EUREKA ST.

ELEVATION = 498.17 FEET (ASSUMED DATUM)

NOTES:

1. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS, UNDERGROUND UTILITIES, LANDSCAPING, IRRIGATION, ETC. TO REMAIN IN PLACE AND SHALL REPAIR ANY DAMAGES DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.

2. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ALL EXISTING EQUIPMENT AND UTILITIES WITHIN LIMITS OF CONSTRUCTION WITH OWNER PRIOR TO CONSTRUCTION.

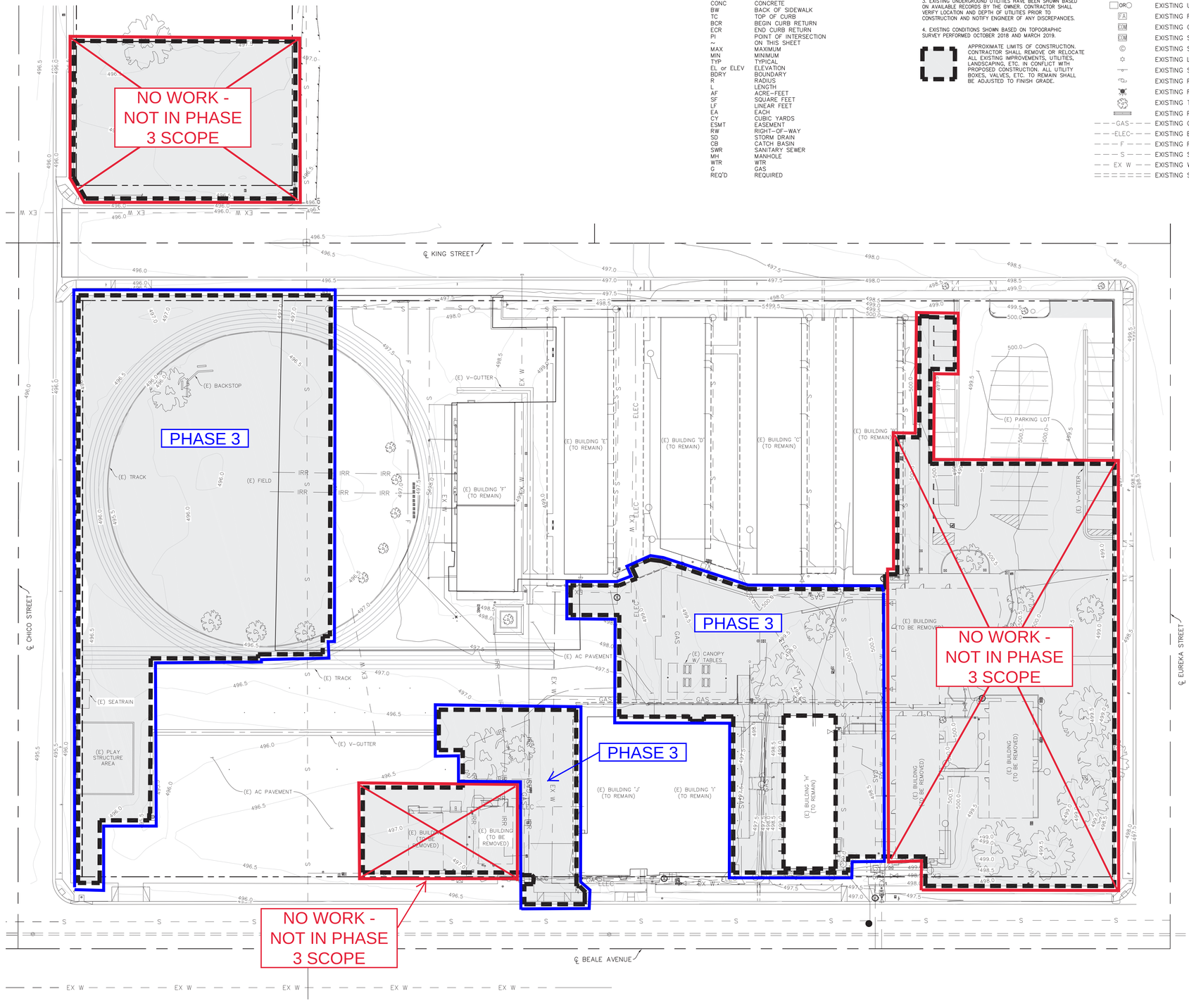
3. EXISTING UNDERGROUND UTILITIES HAVE BEEN SHOWN BASED ON AVAILABLE RECORDS BY THE OWNER. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

4. EXISTING CONDITIONS SHOWN BASED ON TOPOGRAPHIC SURVEY PERFORMED OCTOBER 2018 AND MARCH 2019.

APPROXIMATE LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REMOVE OR RELOCATE ALL EXISTING IMPROVEMENTS, UTILITIES, LANDSCAPING, ETC. IN CONFLICT WITH PROPOSED CONSTRUCTION. ALL UTILITY BOXES, VALVES, ETC. TO REMAIN SHALL BE ADJUSTED TO FINISH GRADE.

LEGEND:

- STREET CENTERLINE
- RIGHT OF WAY
- EXISTING FENCE
- EXISTING WROUGHT IRON FENCE
- EXISTING WALL
- EXISTING EDGE OF PAVEMENT
- EXISTING ELECTRICAL LID
- EXISTING SEWER MANHOLE
- EXISTING WATER LID
- EXISTING IRRIGATION CONTROL VALVE
- EXISTING GAS LID
- EXISTING UNKNOWN UTILITY LID
- EXISTING FIRE ALARM BOX
- EXISTING COMMUNICATION BOX
- EXISTING SIGNAL BOX
- EXISTING SEWER CLEANOUT
- EXISTING LIGHT STANDARD
- EXISTING SIGN
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- EXISTING TREE
- EXISTING PARKING BUMPER
- EXISTING GAS LINE
- EXISTING ELECTRICAL LINE
- EXISTING FIRE MAIN
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING STORM DRAIN



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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS M.S. MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	LKR
CHK'D BY:	MVC
ISSUE DATE:	11/15/2019

SHEET TITLE

CIVIL IMPROVEMENTS TOPO SURVEY/ PROJECT LIMITS

SHEET NUMBER

PHASE III

C1.1

DSA SUBMITTAL

C:\Users\ruben.ruiz\Documents\RE\VT\2019\BAT\H-118934-BessieOwensMS_Site 06-26-19_v2016_ruben.ruiz.rvt
2019-07-29 10:36:45 AM
PLOT DATE:
J:_\3134\Civil Improvements\3134-CIVIL_C3D.dwg 03/02/20 matthewcarson

LEGEND:

- STREET CENTERLINE
- RIGHT OF WAY
- EXISTING EDGE OF PAVEMENT
- EXISTING ELECTRICAL LID
- EXISTING SEWER MANHOLE
- EXISTING WATER LID
- EXISTING IRRIGATION CONTROL VALVE
- EXISTING GAS LID
- EXISTING UNKNOWN UTILITY LID
- EXISTING FIRE ALARM BOX
- EXISTING COMMUNICATION BOX
- EXISTING SIGNAL BOX
- EXISTING SEWER CLEANOUT
- EXISTING LIGHT STANDARD
- EXISTING SIGN
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- 104.83 DESIGN GRADE
- 2.0% DESIGN SLOPE
- 102.41 × AC EXISTING GRADE
- ± MATCH EXISTING ELEVATION
- GAS EXISTING GAS LINE
- ELEC EXISTING ELECTRICAL LINE
- S EXISTING SEWER MAIN
- EX. W EXISTING WATER MAIN
- PROPOSED STORM DRAIN
- STORM DRAIN
- S PROPOSED SEWER LINE
- W PROPOSED WATER MAIN

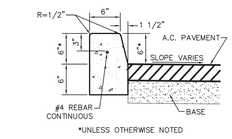
CONSTRUCTION NOTES (THIS SHEET ONLY)

1. CONSTRUCT VARYING HEIGHT CURB PER DETAIL A/C2
2. CONSTRUCT MOW CURB PER ARCHITECT'S PLANS.
3. CONSTRUCT CONCRETE SIDEWALK/FLATWORK OVER CLASS II AGGREGATE BASE, REFER TO ARCHITECT'S PLAN FOR EXACT LIMITS AND THICKNESS. COMPACT SUB-GRADE UNDER CONCRETE PER SOILS REPORT RECOMMENDATIONS FOR THIS PROJECT.
4. CONSTRUCT CURB RAMP PER ARCHITECT'S PLANS. COMPACT SUB-GRADE UNDER CONCRETE PER SOILS REPORT RECOMMENDATIONS FOR THIS PROJECT.
5. SAWCUT AND REMOVE EXISTING DRIVE APPROACH AND CONSTRUCT CURB AND GUTTER PER C.O.B. STD. DWG. ST-1, OR AS DIRECTED BY CITY INSPECTOR.
6. SAWCUT TO NEAT, CLEAN VERTICAL FACE/LIMITS OF DEMOLITION.
7. MATCH EXISTING.

CONSTRUCT 3" MIN. AC PAVING OVER 4" MIN. CLASS II AGG. BASE OVER 12" MIN. NATURAL GROUND COMPACTED TO 95% MAX. DENSITY.

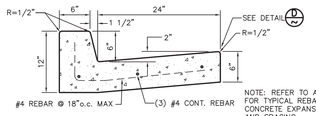
NOTES:

1. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS, UNDERGROUND UTILITIES, LANDSCAPING, IRRIGATION, ETC. TO REMAIN IN PLACE AND SHALL REPAIR ANY DAMAGES DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
2. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ALL EXISTING EQUIPMENT AND UTILITIES WITHIN LIMITS OF CONSTRUCTION WITH DISTRICT PRIOR TO CONSTRUCTION.
3. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN.
4. SEE ARCHITECT'S PLANS FOR DEMOLITION AND REMOVAL/ RELOCATION OF EXISTING EQUIPMENT, UTILITIES, ETC.
5. PROPOSED WATER AND SEWER LINES ARE SHOWN FOR REFERENCE ONLY, SEE SEWER AND WATER PLANS FOR EXACT LOCATIONS.
6. WARP CONCRETE TO CALIFORNIA PUBLIC ACCESSIBILITY STANDARDS TO MATCH FINISHED FLOOR AT ALL BUILDING ACCESS OPENINGS.
7. EXISTING UNDERGROUND UTILITIES HAVE BEEN SHOWN BASED ON AVAILABLE RECORDS BY THE OWNER. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
8. WORK WITHIN CITY RIGHT OF WAY TO BE PERFORMED UNDER CITY STREET PERMIT.



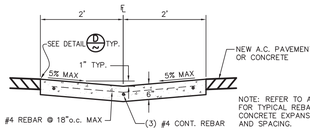
NOTE: REFER TO ARCHITECTURAL PLANS FOR TYPICAL REBAR CLEARANCES AND CONCRETE EXPANSION JOINT DETAILS AND SPACING.

A CONCRETE CURB
NTS



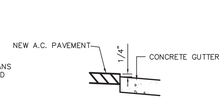
NOTE: REFER TO ARCHITECTURAL PLANS FOR TYPICAL REBAR CLEARANCES AND CONCRETE EXPANSION JOINT DETAILS AND SPACING.

B 6" CURB AND GUTTER
NTS

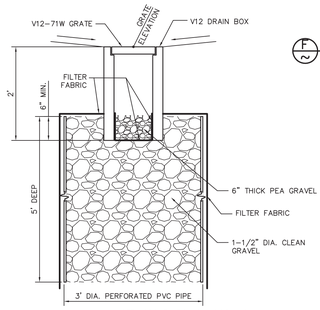


NOTE: REFER TO ARCHITECTURAL PLANS FOR TYPICAL REBAR CLEARANCES AND CONCRETE EXPANSION JOINT DETAILS AND SPACING.

C 4' WIDE CONCRETE "V" GUTTER WITH 1" DEPRESSION
NTS

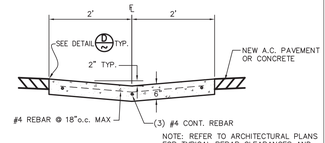


D TYPICAL AC/CONCRETE INTERFACE
NTS



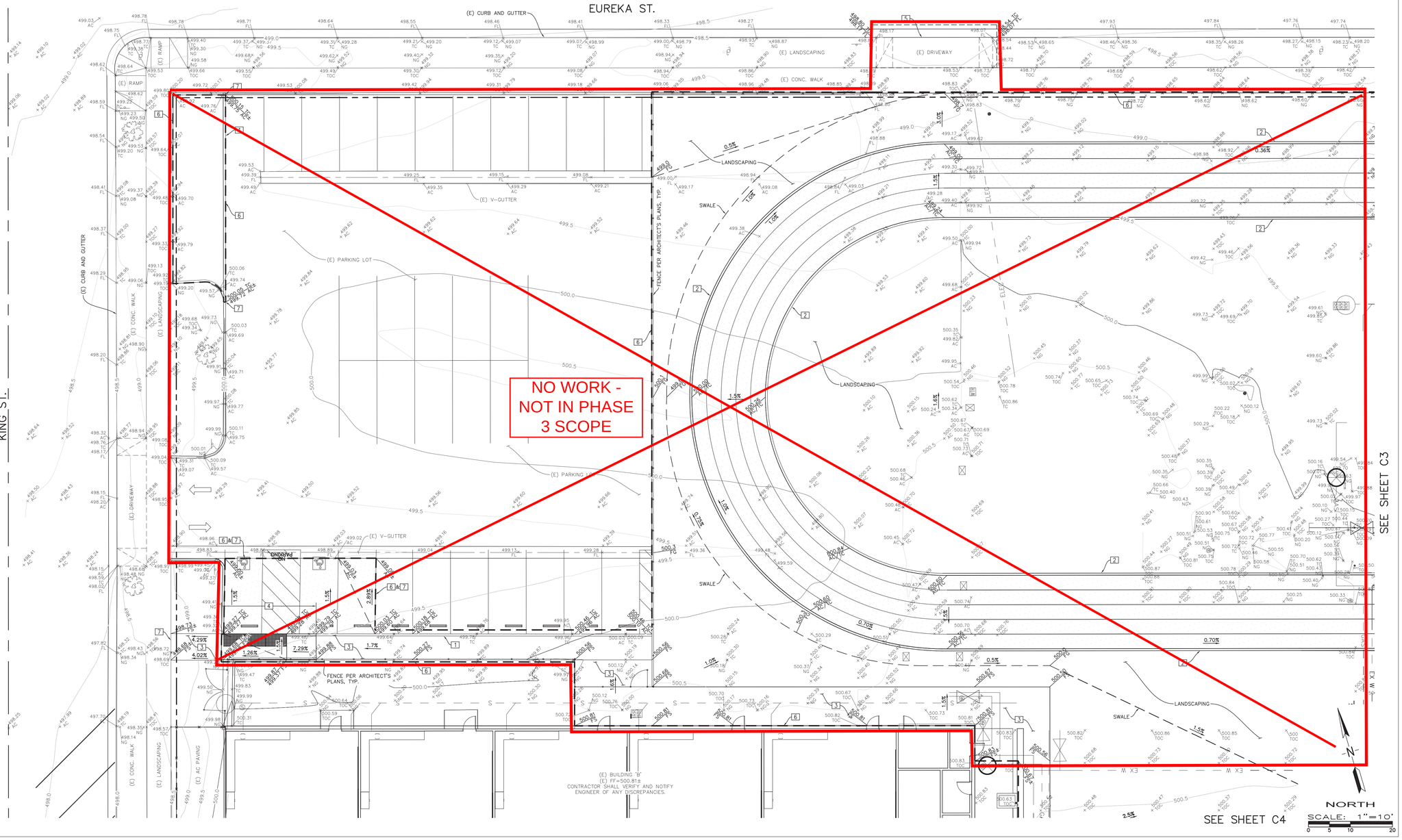
NOTE: GROUT AROUND INSIDE AND OUTSIDE OF PIPE CONNECTING TO BOX. ALSO GROUT AT EXTENSION JOINTS, TYP.

E V12 DRAIN BOX DRY WELL DRAIN
N.T.S.



NOTE: REFER TO ARCHITECTURAL PLANS FOR TYPICAL REBAR CLEARANCES AND CONCRETE EXPANSION JOINT DETAILS AND SPACING.

F 4' WIDE CONCRETE "V" GUTTER WITH 2" DEPRESSION
NTS



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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS M.S. MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	LKR
CHK'D BY:	MVC
ISSUE DATE:	11/15/2019

SHEET TITLE

CIVIL IMPROVEMENTS GRADING PLAN NORTHWEST CORNER

SHEET NUMBER

PHASE III

C1.2

DSA SUBMITTAL

PLOT DATE: 2019-07-29 10:36:45 AM

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LEGEND:

- STREET CENTERLINE
- RIGHT OF WAY
- EXISTING EDGE OF PAVEMENT
- EXISTING ELECTRICAL LID
- EXISTING SEWER MANHOLE
- EXISTING WATER LID
- EXISTING IRRIGATION CONTROL VALVE
- EXISTING GAS LID
- EXISTING UNKNOWN UTILITY LID
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- EXISTING SIGN
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- DESIGN GRADE
- DESIGN SLOPE
- EXISTING GRADE
- MATCH EXISTING ELEVATION
- EXISTING GAS LINE
- EXISTING ELECTRICAL LINE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- PROPOSED SEWER LINE
- PROPOSED WATER MAIN

CONSTRUCTION NOTES (THIS SHEET ONLY)

1. CONSTRUCT MOW CURB PER ARCHITECT'S PLANS.
2. CONSTRUCT CONCRETE SIDEWALK/FLATWORK OVER CLASS II AGGREGATE BASE, REFER TO ARCHITECT'S PLAN FOR EXACT LIMITS AND THICKNESS. COMPACT SUB-GRADE UNDER CONCRETE PER SOILS REPORT RECOMMENDATIONS FOR THIS PROJECT.
3. CONSTRUCT SEATING/WALL PER ARCHITECT'S PLANS. COMPACT SUB-GRADE UNDER CONCRETE PER SOILS REPORT RECOMMENDATIONS FOR THIS PROJECT.
4. CONSTRUCT STAIRS PER ARCHITECT'S PLANS. COMPACT SUB-GRADE UNDER CONCRETE PER SOILS REPORT RECOMMENDATIONS FOR THIS PROJECT.
5. CONSTRUCT RAMP PER ARCHITECT'S PLANS. COMPACT SUB-GRADE UNDER CONCRETE PER SOILS REPORT RECOMMENDATIONS FOR THIS PROJECT.
6. SAWCUT TO NEAT, CLEAN VERTICAL FACE/LIMITS OF DEMOLITION.
7. MATCH EXISTING.

CONSTRUCT 3" MIN. AC PAVING OVER 4" MIN. CLASS II AGG. BASE OVER 12" MIN. NATURAL GROUND COMPACTED TO 95% MAX. DENSITY.

NOTES:

1. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS, UNDERGROUND UTILITIES, LANDSCAPING, IRRIGATION, ETC. TO REMAIN IN PLACE AND SHALL REPAIR ANY DAMAGES DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
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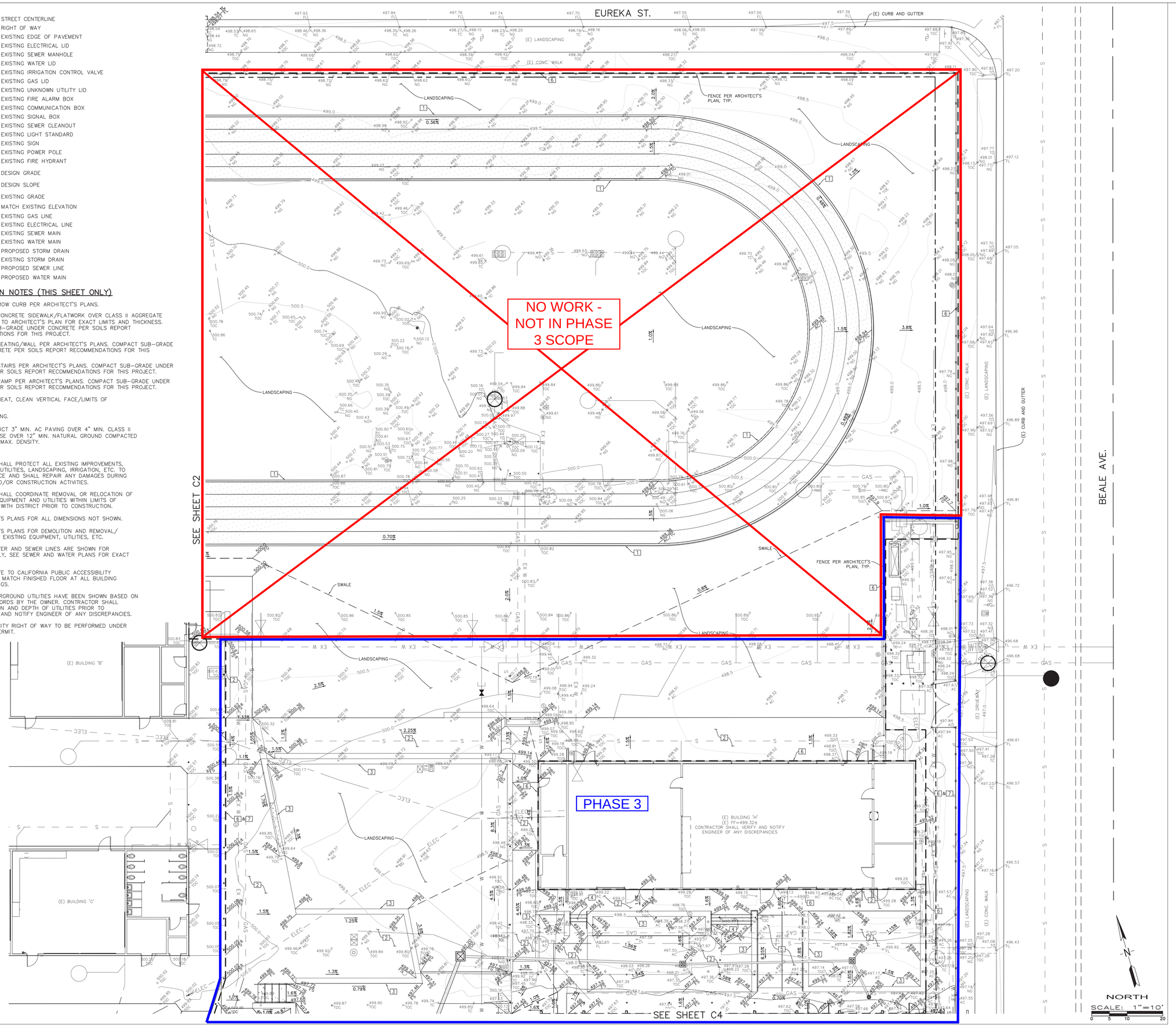
8. WORK WITHIN CITY RIGHT OF WAY TO BE PERFORMED UNDER CITY STREET PERMIT.



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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT — Where The Child Comes First

BESSIE OWENS M.S. MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	LKR
CHK'D BY:	MVC
ISSUE DATE:	11/15/2019

SHEET TITLE

CIVIL IMPROVEMENTS GRADING PLAN NORTHEAST CORNER

SHEET NUMBER

PHASE III

C1.3

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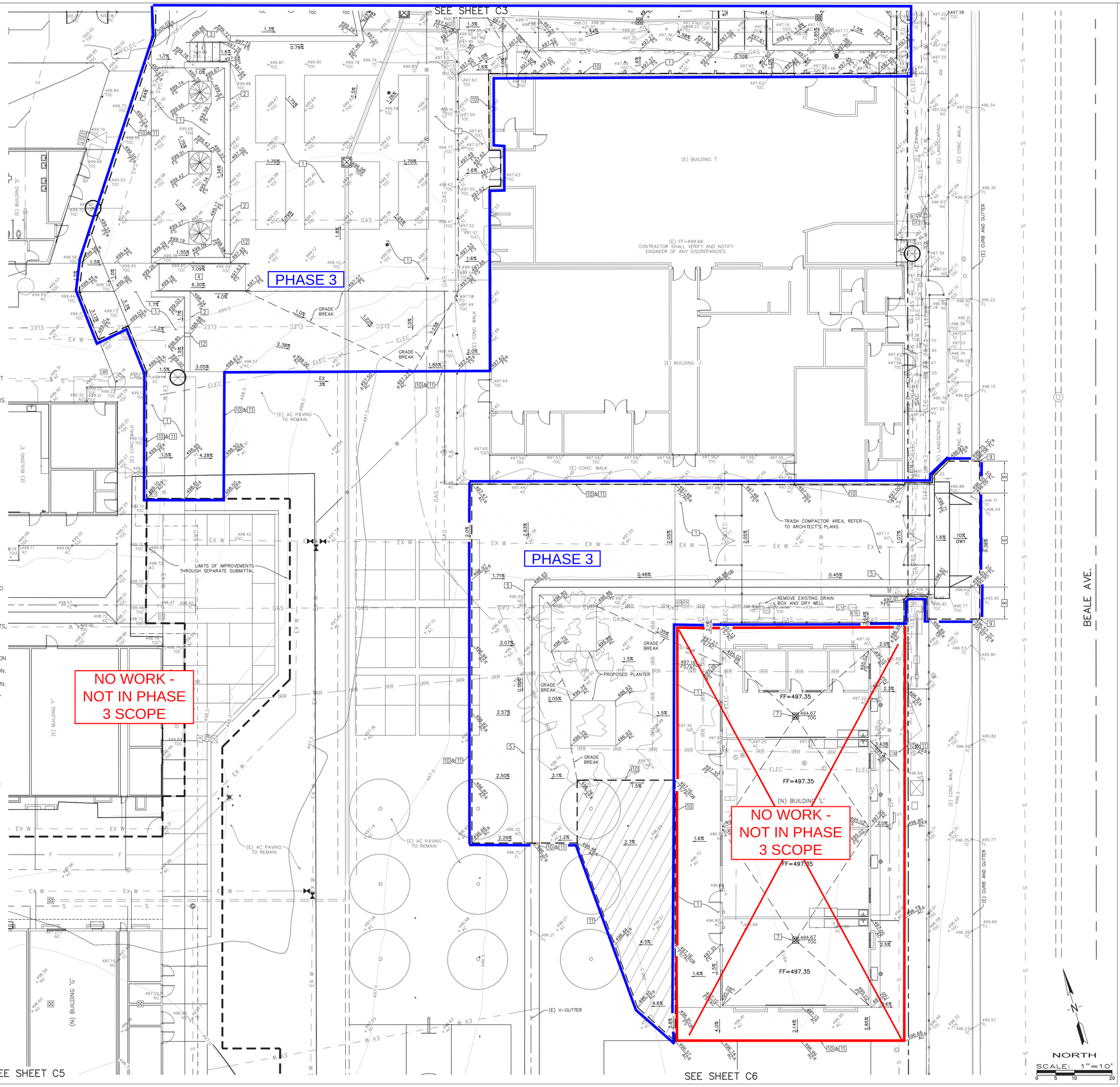

LEGEND:

- STREET CENTERLINE
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- EXISTING IRRIGATION CONTROL VALVE
- EXISTING GAS LID
- EXISTING UNKNOWN UTILITY LID
- EXISTING FIRE ALARM BOX
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- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- DESIGN GRADE
- DESIGN SLOPE
- EXISTING GRADE
- MATCH EXISTING ELEVATION
- EXISTING GAS LINE
- EXISTING ELECTRICAL LINE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- PROPOSED SEWER LINE
- PROPOSED WATER MAIN

CONSTRUCTION NOTES (THIS SHEET ONLY)

1. CONSTRUCT CONCRETE SIDEWALK/FLATWORK OVER CLASS II AGGREGATE BASE, REFER TO ARCHITECT'S PLAN FOR EXACT LIMITS AND THICKNESS. COMPACT SUB-GRADE UNDER CONCRETE PER SOILS REPORT RECOMMENDATIONS FOR THIS PROJECT.
2. CONSTRUCT WALL PER ARCHITECT'S PLANS. COMPACT SUB-GRADE UNDER CONCRETE PER SOILS REPORT RECOMMENDATIONS FOR THIS PROJECT.
3. CONSTRUCT STAIRS PER ARCHITECT'S PLANS. COMPACT SUB-GRADE UNDER CONCRETE PER SOILS REPORT RECOMMENDATIONS FOR THIS PROJECT.
4. CONSTRUCT ACCESSIBLE RAMP PER ARCHITECT'S PLANS. COMPACT SUB-GRADE UNDER CONCRETE PER SOILS REPORT RECOMMENDATIONS FOR THIS PROJECT.
5. CONSTRUCT 4" WIDE V-GUTTER WITH 1" DEPRESSION PER DETAIL C/C2
6. CONSTRUCT DRIVE APPROACH PER COB STD. DWG. ST-4.
7. CONSTRUCT CHRISTY V12 DRAIN BOX DRY WELL PER DETAIL E/C2
8. CONSTRUCT CURB, GUTTER, AND SIDEWALK PER C.O.B. STD. DWG. ST-1 AND ST-5.
9. SAWCUT TO NEAT, CLEAN VERTICAL FACE OR AS DIRECTED BY THE CITY INSPECTOR.
10. SAWCUT TO NEAT, CLEAN VERTICAL FACE/LIMITS OF DEMOLITION.
11. MATCH EXISTING.
12. CONSTRUCT 4"x12" SCUPPER OPENING IN SEAT WALL.

CONSTRUCT 3" MIN. AC PAVING OVER 4" MIN. CLASS II AGG. BASE OVER 12" MIN. NATURAL GROUND COMPACTED TO 95% MAX. DENSITY.

GRIND 0.1' MINIMUM EXISTING AC AND OVERLAY TO DESIGN GRADES SHOWN.

NOTES:

1. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS, UNDERGROUND UTILITIES, LANDSCAPING, IRRIGATION, ETC. TO REMAIN IN PLACE AND SHALL REPAIR ANY DAMAGES DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
2. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ALL EXISTING EQUIPMENT AND UTILITIES WITHIN LIMITS OF CONSTRUCTION WITH DISTRICT PRIOR TO CONSTRUCTION.
3. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN.
4. SEE ARCHITECT'S PLANS FOR DEMOLITION AND REMOVAL/ RELOCATION OF EXISTING EQUIPMENT, UTILITIES, ETC.
5. PROPOSED WATER AND SEWER LINES ARE SHOWN FOR REFERENCE ONLY, SEE SEWER AND WATER PLANS FOR EXACT LOCATIONS.
6. WARP CONCRETE TO CALIFORNIA PUBLIC ACCESSIBILITY STANDARDS TO MATCH FINISHED FLOOR AT ALL BUILDING ACCESS OPENINGS.
7. EXISTING UNDERGROUND UTILITIES HAVE BEEN SHOWN BASED ON AVAILABLE RECORDS BY THE OWNER. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
8. WORK WITHIN CITY RIGHT OF WAY TO BE PERFORMED UNDER CITY STREET PERMIT.

AGENCY INFORMATION:

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APP. 03-120102 INC.
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT — Where The Child Comes First

BESSIE OWENS M.S. MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	LKR
CHK'D BY:	MVC
ISSUE DATE:	11/15/2019

SHEET TITLE

CIVIL IMPROVEMENTS GRADING PLAN MIDDLE EAST AREA

SHEET NUMBER

PHASE III

C1.4

DSA SUBMITTAL

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PLOT DATE: 2019-07-29 10:36:45 AM

LEGEND:

- STREET CENTERLINE
- RIGHT OF WAY
- EXISTING EDGE OF PAVEMENT
- EXISTING ELECTRICAL LID
- EXISTING SEWER MANHOLE
- EXISTING WATER LID
- EXISTING IRRIGATION CONTROL VALVE
- EXISTING GAS LID
- EXISTING UNKNOWN UTILITY LID
- EXISTING FIRE ALARM BOX
- EXISTING COMMUNICATION BOX
- EXISTING SIGNAL BOX
- EXISTING SEWER CLEANOUT
- EXISTING LIGHT STANDARD
- EXISTING SIGN
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- DESIGN GRADE
- DESIGN SLOPE
- EXISTING GRADE
- MATCH EXISTING ELEVATION
- EXISTING GAS LINE
- EXISTING ELECTRICAL LINE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- PROPOSED SEWER LINE
- PROPOSED WATER MAIN

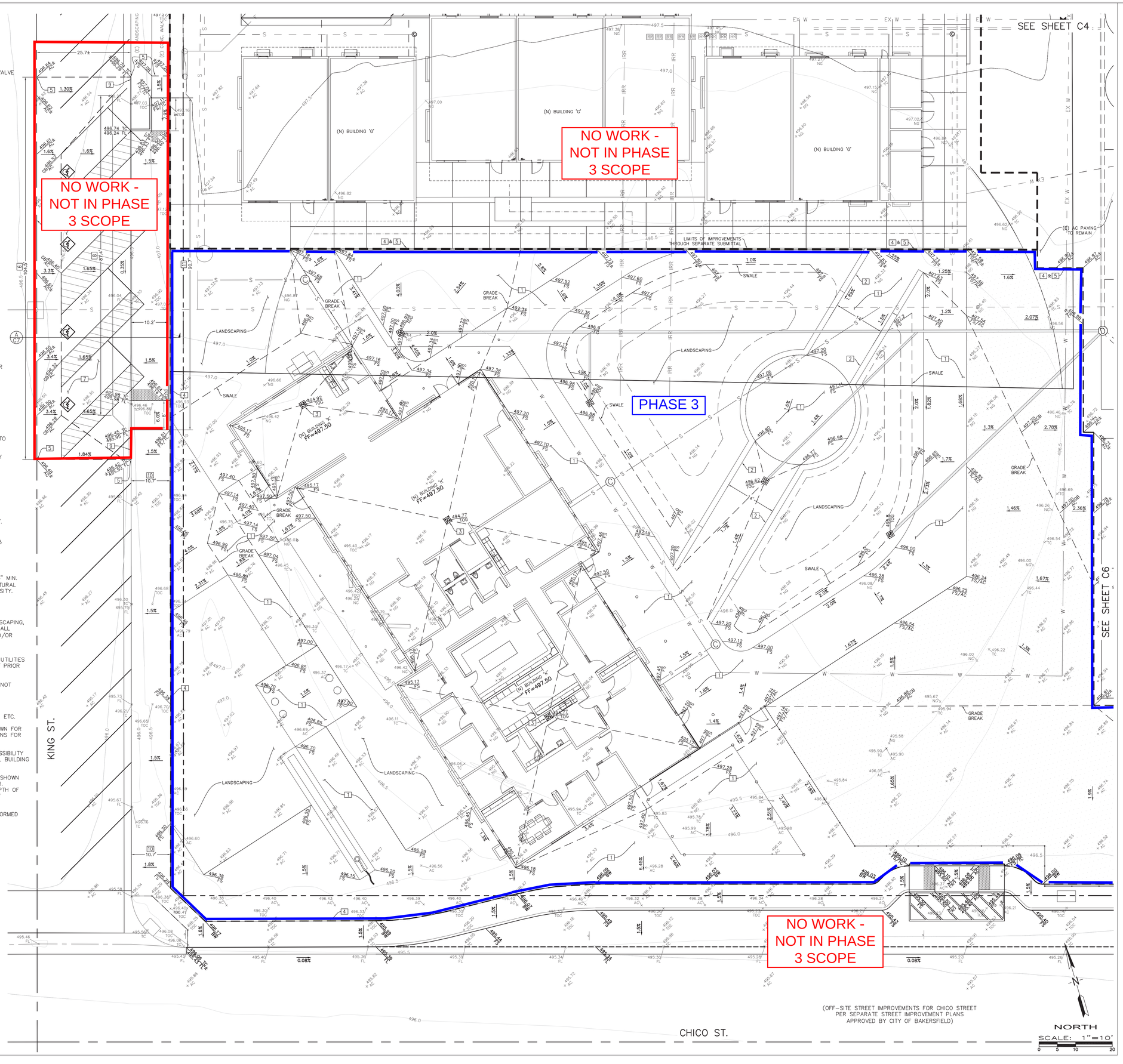
CONSTRUCTION NOTES (THIS SHEET ONLY)

1. CONSTRUCT CONCRETE SIDEWALK/FLATWORK OVER CLASS II AGGREGATE BASE, REFER TO ARCHITECT'S PLAN FOR EXACT LIMITS AND THICKNESS. COMPACT SUB-GRADE UNDER CONCRETE PER SOILS REPORT RECOMMENDATIONS FOR THIS PROJECT.
2. CONSTRUCT WALL PER ARCHITECT'S PLANS. COMPACT SUB-GRADE UNDER CONCRETE PER SOILS REPORT RECOMMENDATIONS FOR THIS PROJECT.
3. CONSTRUCT CHRISTY V12 DRAIN BOX DRY WELL PER DETAIL (E/C7.2)
4. SAWCUT TO NEAT, CLEAN VERTICAL FACE/LIMITS OF DEMOLITION.
5. MATCH EXISTING.
6. SAWCUT TO NEAT, CLEAN VERTICAL FACE, REMOVE AND REPLACE EXISTING PAVEMENT TO DESIGN GRADES SHOWN. CONSTRUCT STANDARD PAVEMENT PATCH SECTION PER C.O.B. STD. DWG. ST-11 OR AS DIRECTED BY CITY ENGINEER UNDER CITY STREET PERMIT.
7. ACCESSIBLE PARKING STRIPING PER ARCHITECT'S PLANS.
8. REMOVE EXISTING CURB & GUTTER AND CONSTRUCT 5' WIDE GUTTER WITH 1" DEPRESSION (2% MAX SLOPE) UNDER CITY STREET PERMIT.
9. CONSTRUCT 6" CURB & GUTTER PER C.O.B. STD. DWG. ST-1 UNDER CITY STREET PERMIT.
10. REMOVE EXISTING SIDEWALK, DRIVEWAYS, LANDSCAPING, ETC AND CONSTRUCT FULL WIDTH SIDEWALK PER C.O.B. STD. DWG. ST-5 UNDER CITY STREET PERMIT.
11. CONSTRUCT PARALLEL CURB RAMP PER ARCHITECT'S PLANS.

CONSTRUCT 3" MIN. AC PAVING OVER 4" MIN. CLASS II AGG. BASE OVER 12" MIN. NATURAL GROUND COMPACTED TO 95% MAX. DENSITY.

NOTES:

1. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS, UNDERGROUND UTILITIES, LANDSCAPING, IRRIGATION, ETC. TO REMAIN IN PLACE AND SHALL REPAIR ANY DAMAGES DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
2. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ALL EXISTING EQUIPMENT AND UTILITIES WITHIN LIMITS OF CONSTRUCTION WITH DISTRICT PRIOR TO CONSTRUCTION.
3. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN.
4. SEE ARCHITECT'S PLANS FOR DEMOLITION AND REMOVAL/ RELOCATION OF EXISTING EQUIPMENT, UTILITIES, ETC.
5. PROPOSED WATER AND SEWER LINES ARE SHOWN FOR REFERENCE ONLY, SEE SEWER AND WATER PLANS FOR EXACT LOCATIONS.
6. WARP CONCRETE TO CALIFORNIA PUBLIC ACCESSIBILITY STANDARDS TO MATCH FINISHED FLOOR AT ALL BUILDING ACCESS OPENINGS.
7. EXISTING UNDERGROUND UTILITIES HAVE BEEN SHOWN BASED ON AVAILABLE RECORDS BY THE OWNER. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
8. WORK WITHIN CITY RIGHT OF WAY TO BE PERFORMED UNDER CITY STREET PERMIT.



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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT
"Where The Child Comes First"

BESSIE OWENS M.S. MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	LKR
CHK'D BY:	MVC
ISSUE DATE:	11/15/2019

SHEET TITLE

CIVIL IMPROVEMENTS GRADING PLAN SOUTHWEST CORNER

SHEET NUMBER

PHASE III

C1.5

DSA SUBMITTAL

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PLOT DATE: 2019-07-29 10:36:45 AM

LEGEND:

- STREET CENTERLINE
- RIGHT OF WAY
- EXISTING EDGE OF PAVEMENT
- EXISTING ELECTRICAL LID
- EXISTING SEWER MANHOLE
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CONSTRUCTION NOTES (THIS SHEET ONLY)

1. CONSTRUCT CONCRETE SIDEWALK/FLATWORK OVER CLASS II AGGREGATE BASE, REFER TO ARCHITECT'S PLAN FOR EXACT LIMITS AND THICKNESS. COMPACT SUB-GRADE UNDER CONCRETE PER SOILS REPORT RECOMMENDATIONS FOR THIS PROJECT.
2. CONSTRUCT WALL PER ARCHITECT'S PLANS. COMPACT SUB-GRADE UNDER CONCRETE PER SOILS REPORT RECOMMENDATIONS FOR THIS PROJECT.
3. CONSTRUCT CHRISTY V12 DRAIN BOX DRY WELL PER DETAIL (E/C7.2)
4. SAWCUT TO NEAT, CLEAN VERTICAL FACE/LIMITS OF DEMOLITION.
5. MATCH EXISTING.
6. SAWCUT TO NEAT, CLEAN VERTICAL FACE, REMOVE AND REPLACE EXISTING PAVEMENT TO DESIGN GRADES SHOWN. CONSTRUCT STANDARD PAVEMENT PATCH SECTION PER C.O.B. STD. DWG. ST-11 OR AS DIRECTED BY CITY ENGINEER UNDER CITY STREET PERMIT.
7. ACCESSIBLE PARKING STRIPING PER ARCHITECT'S PLANS.
8. REMOVE EXISTING CURB & GUTTER AND CONSTRUCT 5' WIDE GUTTER WITH 1" DEPRESSION (2% MAX SLOPE) UNDER CITY STREET PERMIT.
9. CONSTRUCT 6" CURB & GUTTER PER C.O.B. STD. DWG. ST-1 UNDER CITY STREET PERMIT.
10. REMOVE EXISTING SIDEWALK, DRIVEWAYS, LANDSCAPING, ETC AND CONSTRUCT FULL WIDTH SIDEWALK PER C.O.B. STD. DWG. ST-5 UNDER CITY STREET PERMIT.
11. CONSTRUCT PARALLEL CURB RAMP PER ARCHITECT'S PLANS.

CONSTRUCT 3" MIN. AC PAVING OVER 4" MIN. CLASS II AGG. BASE OVER 12" MIN. NATURAL GROUND COMPACTED TO 95% MAX. DENSITY.

NOTES:

1. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS, UNDERGROUND UTILITIES, LANDSCAPING, IRRIGATION, ETC. TO REMAIN IN PLACE AND SHALL REPAIR ANY DAMAGES DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
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3. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN.
4. SEE ARCHITECT'S PLANS FOR DEMOLITION AND REMOVAL/ RELOCATION OF EXISTING EQUIPMENT, UTILITIES, ETC.
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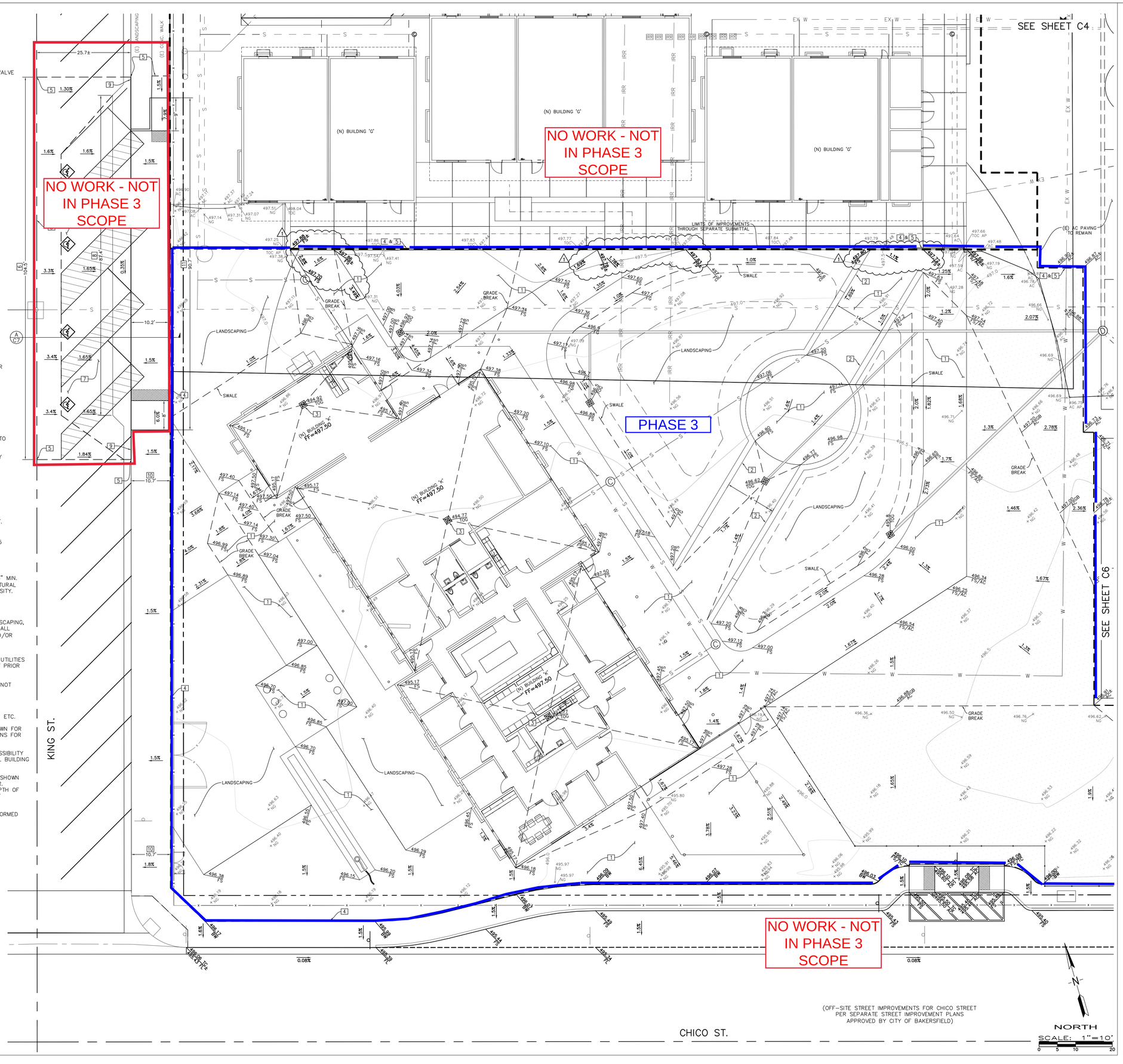
8. WORK WITHIN CITY RIGHT OF WAY TO BE PERFORMED UNDER CITY STREET PERMIT.



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1	11/01/2022		ADDENDUM 1

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT "Where The Child Comes First"

BESSIE OWENS M.S. MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	LKR
CHK'D BY:	MVC
ISSUE DATE:	11/15/2019

SHEET TITLE

CIVIL IMPROVEMENTS GRADING PLAN SOUTHWEST CORNER UPDATED TOPOGRAPHIC SURVEY

SHEET NUMBER

PHASE III

C1.5A

DSA SUBMITTAL

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PLOT DATE: 2019-07-29 10:36:45 AM

LEGEND:

- STREET CENTERLINE
- RIGHT OF WAY
- EXISTING EDGE OF PAVEMENT
- EXISTING ELECTRICAL LID
- EXISTING SEWER MANHOLE
- EXISTING WATER LID
- EXISTING IRRIGATION CONTROL VALVE
- EXISTING GAS LID
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- EXISTING WATER MAIN
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- PROPOSED SEWER LINE
- PROPOSED WATER MAIN

CONSTRUCTION NOTES (THIS SHEET ONLY)

1 SAWCUT TO NEAT, CLEAN VERTICAL FACE/LIMITS OF DEMOLITION.

2 MATCH EXISTING.

CONSTRUCT 3" MIN. AC PAVING OVER 4" MIN. CLASS II AGG. BASE OVER 12" MIN. NATURAL GROUND COMPACTED TO 95% MAX. DENSITY.

NOTES:

1. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS, UNDERGROUND UTILITIES, LANDSCAPING, IRRIGATION, ETC. TO REMAIN IN PLACE AND SHALL REPAIR ANY DAMAGES DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
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3. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN.
4. SEE ARCHITECT'S PLANS FOR DEMOLITION AND REMOVAL/ RELOCATION OF EXISTING EQUIPMENT, UTILITIES, ETC.
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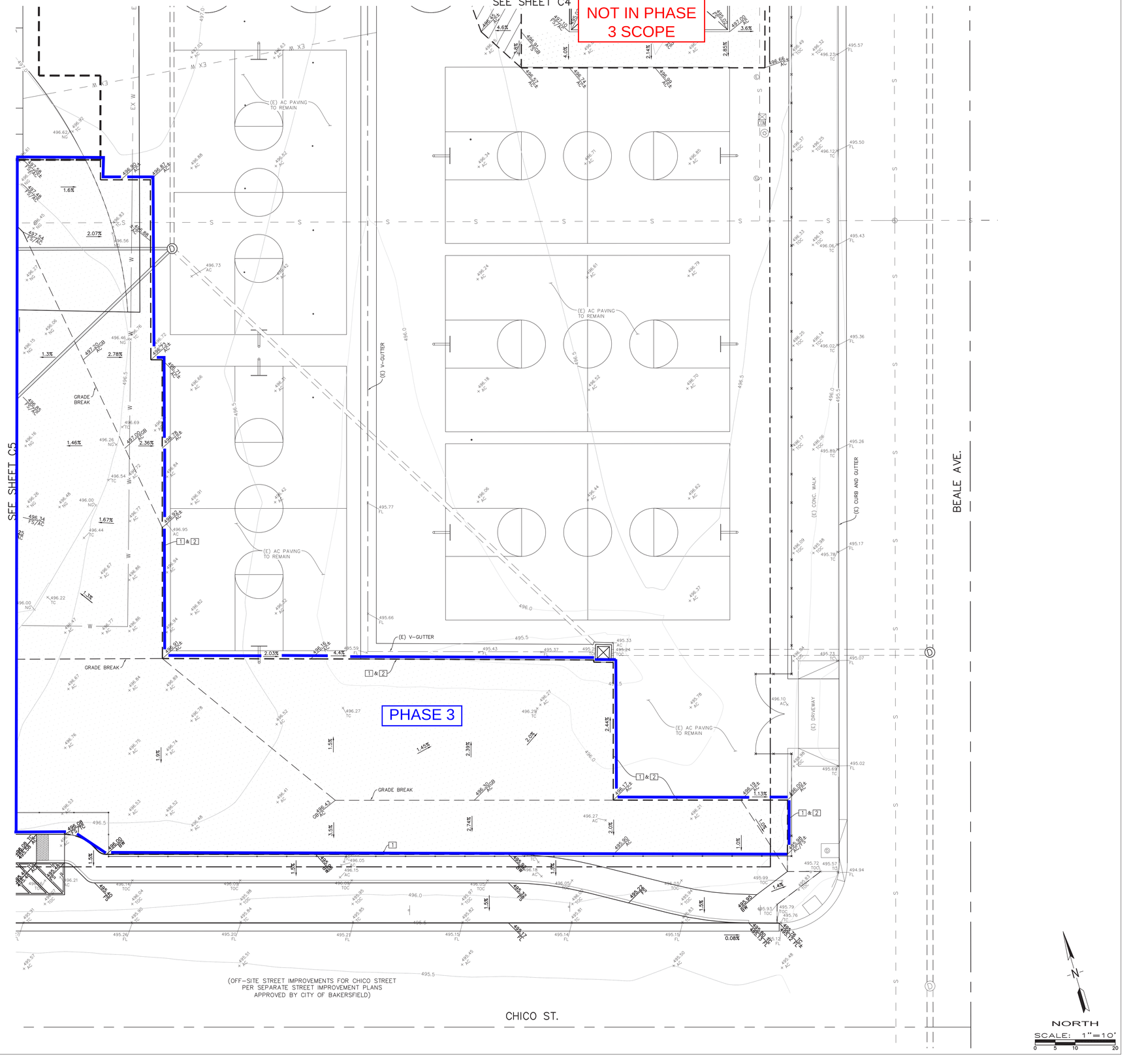
8. WORK WITHIN CITY RIGHT OF WAY TO BE PERFORMED UNDER CITY STREET PERMIT.



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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS M.S. MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	LKR
CHK'D BY:	MVC
ISSUE DATE:	11/15/2019

SHEET TITLE

CIVIL IMPROVEMENTS GRADING PLAN SOUTHEAST CORNER

SHEET NUMBER

PHASE III

C1.6

DSA SUBMITTAL

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PLOT DATE: 2019-07-29 10:36:45 AM

SEWER CONSTRUCTION NOTES

① TIE INTO EXISTING SCHOOL SEWER. CONTRACTOR SHALL VERIFY SIZE, LOCATION AND DEPTH OF SEWER IN FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.

② TIE INTO EXISTING CITY OF BAKERSFIELD SEWER MAIN AND INSTALL NEW SEWER LATERAL PER CITY OF BAKERSFIELD STD. DWG SW-7. CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF EXISTING MAIN IN FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES. CONTRACTOR SHALL OBTAIN STREET PERMIT FROM CITY OF BAKERSFIELD PUBLIC WORKS DEPARTMENT FOR CONSTRUCTION WITHIN CITY EASEMENT.

③ INSTALL 2" PVC SEWER AT 2% MIN. SLOPE TO BUILDING (DISTANCE SHOWN). VERIFY POINT OF CONNECTIONS WITH BUILDING PLANS PRIOR TO CONSTRUCTION.

④ INSTALL 4" PVC SEWER AT 1% MIN. SLOPE TO BUILDING (DISTANCE SHOWN). VERIFY POINT OF CONNECTIONS WITH BUILDING PLANS PRIOR TO CONSTRUCTION.

⑤ CONSTRUCT SEWER CLEAN-OUT (100' MAX SPACING) PER DETAIL (D/C10).

⑥ INSTALL 4" PVC SEWER (DISTANCE AND SLOPE SHOWN).

WATER CONSTRUCTION NOTES

1 SAWCUT EXISTING ASPHALT PAVEMENT, TRENCH AND BACKFILL PER DETAIL (A/C10)

2 TIE INTO EXISTING 4" WATER LINE AND INSTALL VALVE PER DETAIL (B/C10). CONTRACTOR SHALL VERIFY ELEVATION OF EXISTING WATER LINE IN FIELD PRIOR TO START OF CONSTRUCTION AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.

3 TIE INTO 3" WATER LINE, DESIGN PER SEPARATE SUBMITTAL. CONTRACTOR SHALL VERIFY SIZE AND LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.

4 TIE INTO 4" WATER LINE, DESIGN PER SEPARATE SUBMITTAL. CONTRACTOR SHALL VERIFY SIZE AND LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.

5 TIE INTO EXISTING 2" WATER LINE AND INSTALL 2" TEE. CONTRACTOR SHALL VERIFY SIZE AND LOCATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.

6 INSTALL 4" PVC C900 WATER LINE WITH THRUST BLOCKS PER DETAIL (C/C10). (DISTANCE SHOWN)

7 INSTALL 3" PVC SCH. 40 WATER LINE (DISTANCE SHOWN).

8 INSTALL 2" PVC SCH. 40 WATER LINE (DISTANCE SHOWN).

9 INSTALL 1" PVC SCH. 40 WATER LINE (DISTANCE SHOWN).

10 INSTALL 3/4" PVC SCH. 40 WATER LINE TO BUILDING POC (DISTANCE SHOWN). VERIFY POC WITH BUILDING PLANS PRIOR TO CONSTRUCTION.

11 INSTALL 1-1/2" PVC SCH. 40 WATER LINE TO BUILDING POC (DISTANCE SHOWN). VERIFY POC WITH BUILDING PLANS PRIOR TO CONSTRUCTION.

12 INSTALL 2" PVC SCH. 40 WATER LINE TO BUILDING POC (DISTANCE SHOWN). VERIFY POC WITH BUILDING PLANS PRIOR TO CONSTRUCTION.

NOTES:

1. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS, UNDERGROUND UTILITIES, LANDSCAPING, IRRIGATION, ETC. TO REMAIN IN PLACE AND SHALL REPAIR ANY DAMAGES DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
2. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ALL EXISTING EQUIPMENT AND UTILITIES WITHIN LIMITS OF CONSTRUCTION WITH DISTRICT PRIOR TO CONSTRUCTION.
3. SEE ARCHITECT'S PLANS FOR DEMOLITION AND REMOVAL/RELOCATION OF EXISTING EQUIPMENT, UTILITIES, ETC.
4. REFER TO STORM DRAIN PLAN FOR THIS PROJECT FOR STORM DRAIN DESIGN.
5. CONTRACTOR SHALL INSTALL ALL ELBOWS, TEES, & APPURTENANCE AS NECESSARY TO FURNISH A COMPLETE PROJECT.
6. EXISTING UNDERGROUND UTILITIES HAVE BEEN SHOWN BASED ON AVAILABLE RECORDS BY THE OWNER. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

LEGEND:

- STREET CENTERLINE
- RIGHT OF WAY
- EXISTING EDGE OF PAVEMENT
- EXISTING ELECTRICAL LID
- EXISTING SEWER MANHOLE
- EXISTING WATER LID
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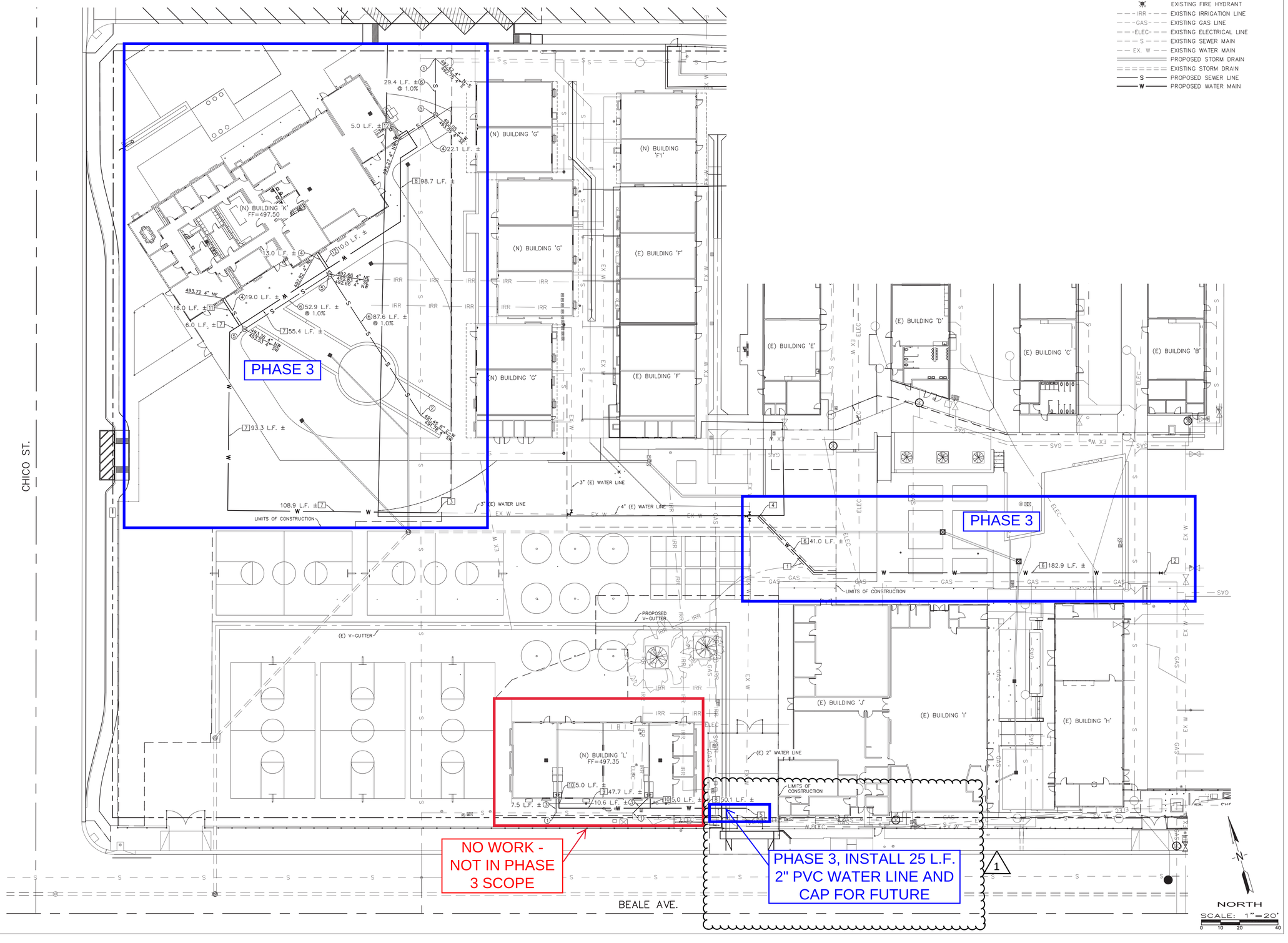
- EXISTING SEWER CLEANOUT
- EXISTING LIGHT STANDARD
- EXISTING SIGN
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- EXISTING IRRIGATION LINE
- EXISTING GAS LINE
- EXISTING ELECTRICAL LINE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- PROPOSED SEWER LINE
- PROPOSED WATER MAIN



AGENCY INFORMATION:

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REVISIONS

NO.	DATE SUBMITTED	DATE APPROVED	DESCRIPTION
1	11/01/2022		ADDENDUM 1

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS M.S. MODERNIZATION
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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	LKR
CHK'D BY:	MVC
ISSUE DATE:	11/15/2019

SHEET TITLE

CIVIL IMPROVEMENTS SEWER AND WATER PLAN

SHEET NUMBER

PHASE III

C1.8

DSA SUBMITTAL

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PLOT DATE: 2019-07-29 10:36:45 AM

STORM DRAIN NOTES:

UNLESS OTHERWISE SPECIFIED ON THESE PLANS, THE STORM DRAIN PIPE SHALL BE ONE OF THE FOLLOWING:

A. REINFORCED CONCRETE PIPE (R.C.P): REINFORCED CONCRETE PIPE SHALL BE CLASS IV (ASTM C76) AND SHALL CONFORM TO THE REQUIREMENTS OF SECTION 65 OF THE CALTRANS STANDARD SPECIFICATIONS DATED MAY 2006. JOINTS SHALL BE RUBBER GASKETED IN CONFORMANCE WITH THE PROVISIONS OF SECTION 651.06 OF THE STANDARD SPECIFICATIONS. CEMENT MORTAR JOINTS SHALL ONLY BE USED WHEN THE PIPE INVERT ELEVATION IS HIGHER THAN ONE HALF THE DRAINAGE SUMP DESIGN WATER SURFACE DEPTH ELEVATION. CONCRETE PIPE SHALL BE LAID IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 65 OF THE STANDARD SPECIFICATIONS. IN ADDITION TO THE ABOVE REQUIREMENTS, ALL RUBBER GASKETED JOINT RINGS SHALL BE CHECKED WITH A GAUGE ALL THE WAY AROUND THE PIPE AFTER THE JOINT HAS BEEN ASSEMBLED TO DETERMINE THAT THE RING HAS BEEN PROPERLY LOCATED AND SEATED. IMPROPERLY MADE JOINTS SHALL BE PULLED APART AND SATISFACTORILY REMADE.

B. CAST-IN-PLACE CONCRETE PIPE: CAST-IN-PLACE MONOLITHIC CONCRETE PIPE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 63 OF THE CALTRANS STANDARD SPECIFICATIONS DATED MAY 2006.

C. POLYVINYL CHLORIDE (P.V.C.) DRAIN PIPE
   1) 15" & SMALLER DIAMETER P.V.C. PIPE SHALL BE IN ACCORDANCE WITH UNI-BELL STANDARD UNI-B-4 AND ASTM D3034, SDR35, AND THE INTEGRAL BELL, GASKETED JOINT SHALL COMPLY WITH UNI-BELL STANDARD UNI-B-4 AND ASTM D3212.
   2) 18" & LARGER DIAMETER P.V.C. PIPE SHALL CONFORM TO UNI-BELL STANDARD UNI-B-9 AND ASTM F679 AND SHALL HAVE AN INTEGRAL BELL, GASKETED JOINT, THAT CONFORMS TO ASTM D-3212 (J-M PERMA-LOC SERIES 46 GRAVITY SEWER PIPE OR APPROVED EQUAL). ALL P.V.C. PIPE SHALL BE INSTALLED AND BEDDED IN STRICT ADHERENCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH ASTM D2321 -LATEST EDITION FOR UNDERGROUND INSTALLATION OF FLEXIBLE THERMOPLASTIC SEWER PIPE.

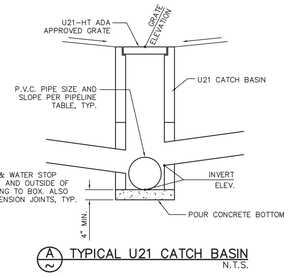
D. POLYETHYLENE (PE) LARGE DIAMETER PROFILE PIPE SHALL CONFORM TO ASTM F894. RUBBER GASKETED JOINTS SHALL BE USED AT ALL LOCATIONS AND SHALL COMPLY WITH ASTM D3212. CORRUGATED POLYETHYLENE PIPE (PE): PIPE COMPLYING WITH AASHTO M252, M294, MP7 D. AND ASTM D3350. INTERIOR OF PIPES SHALL BE SMOOTH AND SHALL HAVE A "N VALUE" OF NOT LESS THAN 0.010. PIPE SHALL BE JOINTED WITH GASKETED BELL AND SPIGOT JOINTS COMPLYING WITH AASHTO M252 AND N294. GASKETS SHALL COMPLY WITH ASTM F477 AND ASTM D1149. PROVIDE MINIMUM COVERAGE PER MANUFACTURER'S SPECIFICATIONS.
   1) ACCEPTABLE CORRUGATED POLYETHYLENE PIPE MANUFACTURER: a. HANCOR "SURE LOK" OR EQUAL.
   2) PE PIPE BACKFILL SHALL BE CLASS I OR CLASS II BACKFILL MATERIALS FOR PIPE BEDDING. BACKFILL TO 6" ABOVE TOP OF PIPE.

GENERAL STORM DRAIN NOTES:

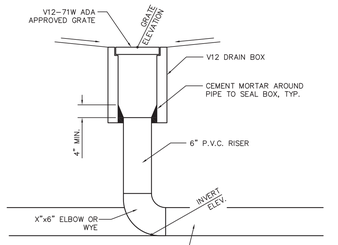
1. THE CONTRACTOR SHALL REMOVE OR RELOCATE ALL OBSTRUCTIONS AS DIRECTED BY THE ENGINEER.
2. ONLY REINFORCED CONCRETE PIPE WITH RUBBER GASKETED JOINTS SHALL BE ALLOWED WITHIN CITY OF BAKERSFIELD RIGHT-OF-WAY.
3. USE OF ANY OF THE ABOVE PIPE MATERIALS SHALL FIRST BE APPROVED BY THE ENGINEER PRIOR TO BIDDING.
4. ALL MATERIALS INSTALLATION SHALL BE IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
5. ALL PIPE FITTINGS SHALL BE MARKED OR STAMPED WITH THE TRADE BRAND NAME OF THE MANUFACTURER, AND STRENGTH OR CLASS OF PIPE.

NOTES:

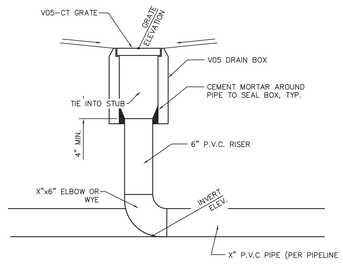
1. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS, UNDERGROUND UTILITIES, LANDSCAPING, IRRIGATION, ETC. TO REMAIN IN PLACE AND SHALL REPAIR ANY DAMAGES DURING DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
2. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ALL EXISTING EQUIPMENT AND UTILITIES WITHIN LIMITS OF CONSTRUCTION WITH DISTRICT PRIOR TO CONSTRUCTION.
3. SEE ARCHITECT'S PLANS FOR ALL DIMENSIONS NOT SHOWN.
4. SEE ARCHITECT'S PLANS FOR DEMOLITION AND REMOVAL/ RELOCATION OF EXISTING EQUIPMENT, UTILITIES, ETC.
5. PROPOSED WATER AND SEWER LINES ARE SHOWN FOR REFERENCE ONLY, SEE SEWER AND WATER PLANS FOR EXACT LOCATIONS.
6. WARP CONCRETE TO CALIFORNIA PUBLIC ACCESSIBILITY STANDARDS TO MATCH FINISHED FLOOR AT ALL BUILDING ACCESS OPENINGS.
7. EXISTING UNDERGROUND UTILITIES HAVE BEEN SHOWN BASED ON AVAILABLE RECORDS BY THE OWNER. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
8. WORK WITHIN CITY RIGHT OF WAY TO BE PERFORMED UNDER CITY STREET PERMIT.



A TYPICAL U21 CATCH BASIN
N.T.S.



B TYPICAL V-12 DRAIN BOX W/ RISER
N.T.S.



C TYPICAL V05 DRAIN BOX W/ RISER
NO SCALE

LEGEND:

- STREET CENTERLINE
- RIGHT OF WAY
- EXISTING EDGE OF PAVEMENT
- EXISTING ELECTRICAL LID
- EXISTING SEWER MANHOLE
- EXISTING WATER LID
- EXISTING IRRIGATION CONTROL VALVE
- EXISTING GAS LID
- EXISTING UNKNOWN UTILITY LID
- EXISTING FIRE ALARM BOX
- EXISTING COMMUNICATION BOX
- EXISTING SIGNAL BOX
- EXISTING SEWER CLEANOUT
- EXISTING LIGHT STANDARD
- EXISTING SIGN
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- EXISTING IRRIGATION LINE
- EXISTING GAS LINE
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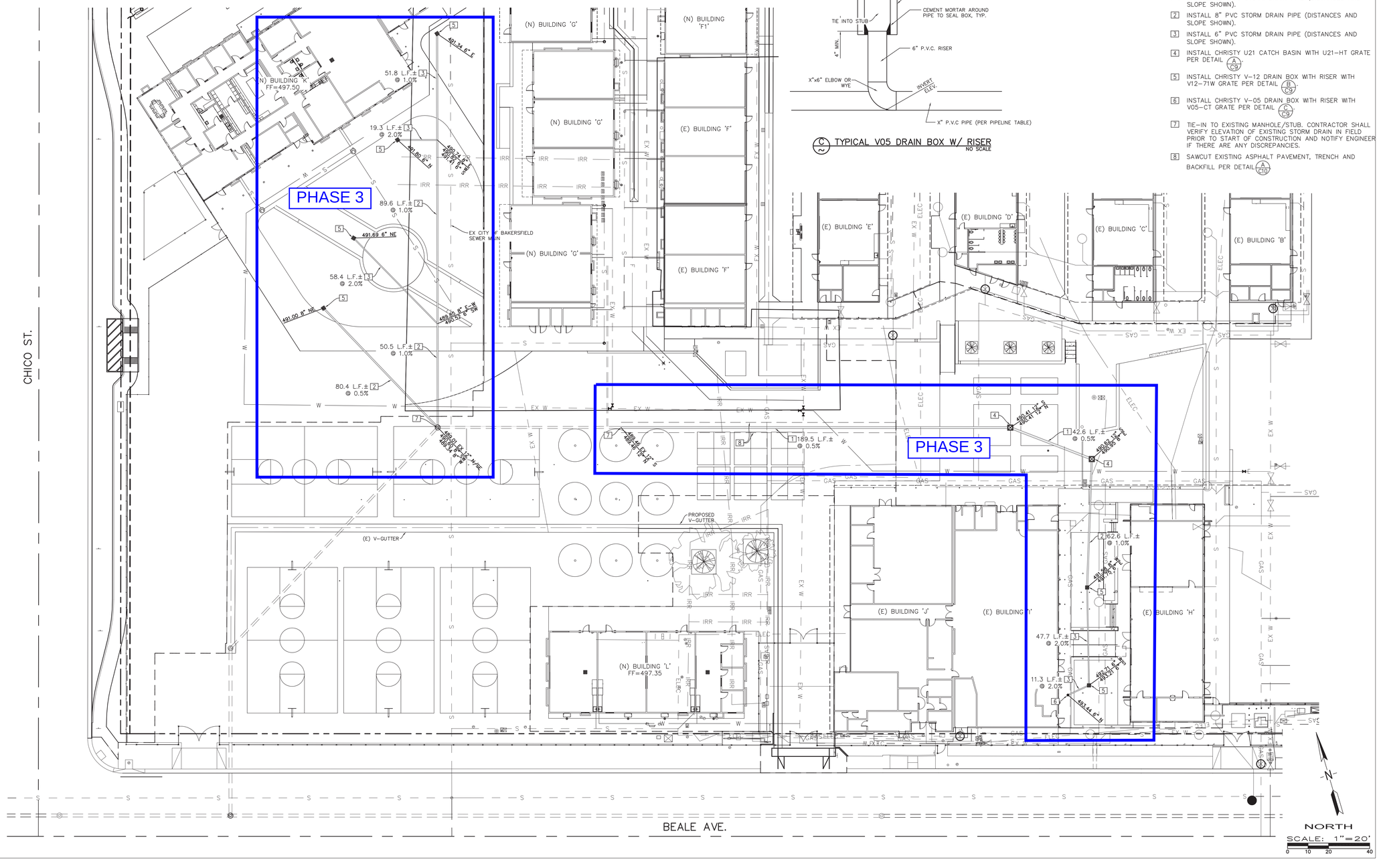
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- PROPOSED SEWER LINE
- PROPOSED WATER MAIN

STORM DRAIN NOTES

1. INSTALL 12" PVC STORM DRAIN PIPE (DISTANCES AND SLOPE SHOWN).
2. INSTALL 8" PVC STORM DRAIN PIPE (DISTANCES AND SLOPE SHOWN).
3. INSTALL 6" PVC STORM DRAIN PIPE (DISTANCES AND SLOPE SHOWN).
4. INSTALL CHRISTY U21 CATCH BASIN WITH U21-HT GRATE PER DETAIL A/C9.
5. INSTALL CHRISTY V-12 DRAIN BOX WITH RISER WITH V12-71W GRATE PER DETAIL B/C9.
6. INSTALL CHRISTY V-05 DRAIN BOX WITH RISER WITH V05-CT GRATE PER DETAIL C/C9.
7. TIE-IN TO EXISTING MANHOLE/STUB. CONTRACTOR SHALL VERIFY ELEVATION OF EXISTING STORM DRAIN IN FIELD PRIOR TO START OF CONSTRUCTION AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
8. SAWCUT EXISTING ASPHALT PAVEMENT, TRENCH AND BACKFILL PER DETAIL A/C10.



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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT "Where The Child Comes First"

BESSIE OWENS M.S. MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	LKR
CHK'D BY:	MVC
ISSUE DATE:	11/15/2019

SHEET TITLE

CIVIL IMPROVEMENTS STORM DRAIN PLAN

SHEET NUMBER

PHASE III

C1.9

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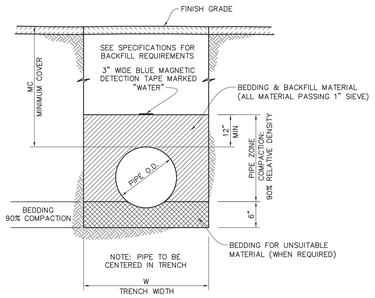
GENERAL SPECIFICATIONS

1. ALL CONSTRUCTION SHALL CONFORM TO THIS PLAN, THE CALIFORNIA BUILDING CODE, AND STANDARDS PERTAINING THERETO. THESE DOCUMENTS SHALL BE MADE A PART HEREOF.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMENSIONS, DATA AND MEASUREMENTS AT THE BUILDING SITE PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. PORTER & ASSOCIATES, INC. MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.
3. EXISTING UTILITY AND UNDERGROUND LINES HAVE BEEN SHOWN ON THIS PLAN ACCORDING TO AVAILABLE RECORDS. THE ENGINEER IS NOT RESPONSIBLE FOR POSSIBLE ERRORS OR OMISSIONS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF ANY WORK. UNDERGROUND SERVICE ALERT (U.S.A.: 1-800-227-2600) SHALL BE CONTACTED AT LEAST TWO WORKING DAYS PRIOR TO ANY CONSTRUCTION OR EXCAVATION.
4. ANY EXISTING IMPROVEMENTS OR UTILITIES THAT ARE REMOVED, DAMAGED OR UNDERCUT BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE ENGINEER AND APPROVED BY THE GOVERNING AUTHORITY.
5. IF A PROBLEM OR CONFLICT SHOULD ARISE DURING THE COURSE OF THE PROJECT, IT IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY PRIOR TO ANY FURTHER WORK.
6. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND SUPERVISION NECESSARY FOR A COMPLETE AND FUNCTIONAL PRODUCT.
7. ALL WORK WHICH IS DEFECTIVE IN ITS CONSTRUCTION OR DEFICIENT IN ANY OF THE REQUIREMENTS OF THESE DRAWINGS AND SPECIFICATIONS SHALL BE REMEDIED, OR REMOVED AND REPLACED BY THE CONTRACTOR IN AN ACCEPTABLE MANNER, AND NO COMPENSATION WILL BE ALLOWED FOR SUCH CORRECTION.
8. IN THE EVENT CONSTRUCTION STAKING BASED ON THE CONSULTANT'S PLANS, DRAWINGS OR OTHER DOCUMENTS IS ACCOMPLISHED BY ANYONE OTHER THAN THE CONSULTANT, THE OWNER OR CONTRACTOR SHALL NOTIFY THE BUILDING OFFICIAL IN WRITING AS TO THE CHANGE OF ENGINEER IN RESPONSIBLE CHARGE.
9. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT; INCLUDING EROSION, SEDIMENTARM & DUST CONTROL PLAN AND STORM WATER POLLUTION PREVENTION PLAN IMPLEMENTATION AND THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
10. IF THE CONTRACTOR IS IN DOUBT AS TO THE MEANING OF ANY PART OF THE DRAWINGS AND SPECIFICATIONS OR FINDS DISCREPANCIES IN OR OMISSIONS FROM THE DRAWINGS, HE SHALL SUBMIT A WRITTEN REQUEST FOR AN INTERPRETATION OR A CORRECTION THEREOF, PRIOR TO FILING HIS BID PRICE FOR THE PROJECT.
11. PORTER & ASSOCIATES, INC. WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ANY AND ALL CHANGES TO THESE PLANS MUST BE APPROVED IN WRITING BY PORTER & ASSOCIATES, INC.

C.O.B. GENERAL NOTES (FOR WORK IN CITY RIGHT-OF-WAY & EASEMENTS)

1. ALL CONSTRUCTION SHALL CONFORM TO THIS PLAN, THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION, THE CALIFORNIA BUILDING CODE, CITY OF BAKERSFIELD ORDINANCE, LATEST EDITION, AND STANDARDS PERTAINING THERETO AND THE GEOTECHNICAL INVESTIGATION PREPARED FOR THIS PROJECT, AND ANY ADDENDUM THERETO. THESE DOCUMENTS SHALL MAKE A PART HEREOF. THE CONTRACTOR SHALL OBTAIN A COMPLETE COPY OF EACH.
2. ALL CONSTRUCTION WITHIN THE CITY RIGHT-OF-WAY OR CITY EASEMENTS SHALL BE IN ACCORDANCE WITH THE PROPOSED CITY OF BAKERSFIELD STANDARDS AND STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, LATEST EDITION. THESE STANDARDS, DRAWINGS AND DETAILS SHALL BE CONSIDERED A PART OF THESE PLANS AND THE CONTRACTOR SHALL OBTAIN A COPY FOR HIS USE.
3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS BEFORE START OF CONSTRUCTION. AN OPEN STREET PERMIT SHALL BE OBTAINED FROM THE CITY OF BAKERSFIELD PUBLIC WORKS DEPARTMENT FOR ANY WORK TO BE PERFORMED IN THE EXISTING, ACCEPTED STREET RIGHT-OF-WAY. UNLESS SECURED BY AN IMPROVEMENT AGREEMENT, APPROVED INSURANCE AND SECURITY BASED ON AN APPROVED ENGINEER'S ESTIMATE FOR THE WORK PERFORMED WITHIN THE STREET RIGHT-OF-WAY SHALL BE POSTED PRIOR TO ISSUANCE OF A PERMIT.
4. 24 HOUR NOTICE: PRIOR TO THE START OF ANY PHASE OF CONSTRUCTION, THE CITY CONSTRUCTION INSPECTION SECTION SHALL BE GIVEN AT LEAST 24 HOURS NOTICE. THE SECTION MAY BE NOTIFIED AT (661) 326-3049.
5. AN OPEN STREET PERMIT SHALL BE OBTAINED FROM THE CITY OF BAKERSFIELD PUBLIC WORKS DEPARTMENT FOR ANY WORK PERFORMED WITHIN EXISTING ACCEPTED STREET RIGHT-OF-WAY. UNLESS SECURED BY A SUBDIVISION AGREEMENT, SECURITY BASED ON AN APPROVED ENGINEER'S ESTIMATE FOR THE WORK PERFORMED WITHIN RIGHT-OF-WAY AND INSURANCE AS REQUIRED SHALL BE PROVIDED PRIOR TO ISSUANCE OF A PERMIT.
6. NO CITY INSPECTIONS WILL BE GIVEN FOR THE WORK IN THIS AREA UNTIL A SUBDIVISION PERMIT WITH APPROPRIATE SECURITY AND INSURANCE HAS BEEN OBTAINED.
7. ANY WORK CONNECTING TO EXISTING PUBLIC FACILITIES FROM PRIVATE PROPERTY WILL REQUIRE AN ENGINEER'S ESTIMATE FOR THE WORK IN THE EXISTING PUBLIC RIGHT-OF-WAY TO ESTABLISH THE NECESSARY DEPOSIT FOR A STREET PERMIT. (FOR TRACTS WITH PRIVATE STREETS, PARCEL MAP IMPROVEMENTS, OR PUBLIC TRACTS WITHOUT RECORDED MAPS).
8. ANY ITEMS IN PUBLIC RIGHT-OF-WAY THAT ARE DAMAGED OR DO NOT MEET CURRENT STANDARDS SET BY PUBLIC WORKS WILL REQUIRE REPAIRING AND/OR UPGRADING AS PER CITY ENGINEER.

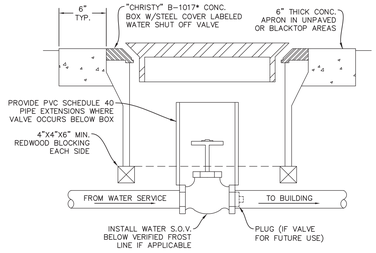


TRENCH DIMENSIONS		
PIPE SIZE	W	MC*
4"	22"	30"
6"	24"	30"
8"	30"	36"
10"-12"	36"	36"

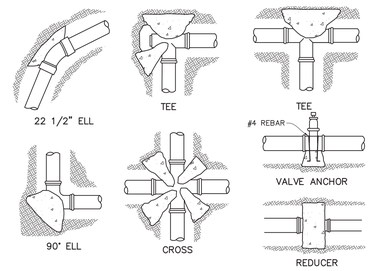
NOTE: EMBEDMENT MATERIALS SHALL BE CLASS I OR II PER A.S.T.M. D2321 MAX SIZE=1"

*FIRE SERVICE UNDER DRIVEWAYS/ROADS SHALL BE INSTALLED WITH 36" MINIMUM COVER FOR ANY SIZE

A TYPICAL PVC PIPE TRENCH SECTION
NTS



B SOV IN YARDBOX
NTS



THRUST BLOCK SCHEDULE						
BEARING AREA IN SQUARE FEET						
PIPE SIZE	TEE OR PLUG	90° ELL	45° ELL	22 1/2° ELL	CROSS	VALVE
4"	2	2	2	1	–	–
6"	3	4	2	2	1.5 EA.	3.0
8"	5	7	4	2	3.0 EA.	5.5
10"	8	11	6	3	4.5 EA.	9.0
12"	11	16	8	4	6.5 EA.	13.0
16"	16	23	13	7	8.0 EA.	16.0

NOTES:

1. ALL VALVES, FITTINGS AND DIRECTIONAL CHANGES ARE TO BE HELD IN PLACE BY CONCRETE THRUSTS BLOCKS.
2. BEARING AREAS INDICATED ARE BASED ON ALLOWABLE SOIL PRESSURE OF 1500 PSF.
3. CONCRETE IS NOT TO BEAR AGAINST PIPE. THRUST BLOCK TO ONLY BE IN CONTACT WITH FITTING.
4. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
5. JOINT SHALL BE KEPT CLEAR OF CONCRETE.
6. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

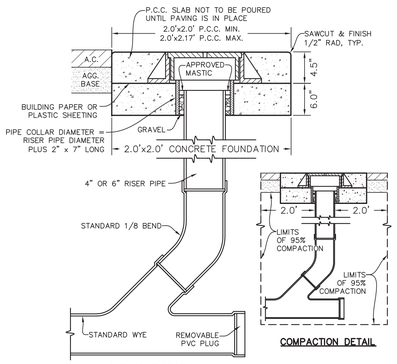
C TYPICAL THRUST BLOCK DETAILS
N.T.S.

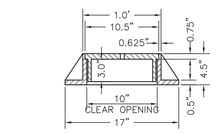
CLEANOUT NOTES:

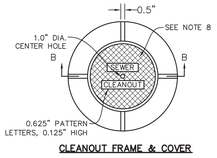
1. ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE SPECIFICATIONS ENTITLED "STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, BUSINESS AND TRANSPORTATION AGENCY, DEPARTMENT OF TRANSPORTATION", APPROVED CURRENT EDITION.
2. ALL CONCRETE SHALL BE CLASS "A".
3. CONCRETE SHALL HAVE NO ADDITIVES UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.
4. CONCRETE SHALL BE CURED WITH A WHITE PIGMENTED CURING COMPOUND PER SEC. 90-7.01B OF THE STANDARD SPECS.
5. TOP OF SLAB SHALL BE TROWELED SMOOTH AND GIVEN A LIGHT BROOM FINISH.
6. 95% RELATIVE COMPACTION IS REQUIRED FOR ALL BACKFILL WITHIN 24" OF THE RISER PIPE.
7. BUILDING PAPER OR PLASTIC SHALL BE PLACED BETWEEN THE 6" CONCRETE FOUNDATION AND 4.5" SLAB.
8. FILL CAVITY BETWEEN PIPE AND COLLAR WITH GRAVEL TO WITHIN 1/2" OF TOP OF PIPE. CAULK REMAINING 1/2" WITH APPROVED MASTIC TO TOP OF PIPE FOR WATER TIGHT SEAL.
9. COLLAR SHALL BE VCP, ABS, OR PVC PIPE.
10. FINISHED PCC SLAB TO BE 1/8" MIN. AND 1/4" MAX. BELOW FINISHED PAVING SURFACE.

CLEANOUT COVER NOTES:

1. ALL FRAMES AND COVERS SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS PRIOR TO DELIVERY.
2. THE SEATS OF FRAMES AND BEARING FACES OF THE COVERS SHALL BE MACHINED FOR A SMOOTH NON-ROCKING FIT BETWEEN THE TWO CASTINGS.
3. CASTINGS SHALL BE THOROUGHLY CLEANED AND DIPPED TWICE IN A QUICK-DRYING, JET-BLACK ASPHALTIC COMPOUND TO PROVIDE A PROTECTIVE COATING.
4. ALL FRAMES AND COVERS SHALL BE GRAY CAST IRON, FREE FROM WARPS, CRACKS, HOLES, SWELLS AND COLD-SHOT, AND SHALL HAVE A WORKMANLIKE FINISH. HIGHWAY LOADING SHOULD BE HS 20-44.
5. CASTING SHALL CONFORM TO THE PROVISIONS OF THE SPECIFICATIONS FOR GRAY-IRON CASTINGS, SERIAL DESIGNATION ASTM: A-48 (LATEST REVISION), CLASS No. 30B.
6. THE NAME OF THE MANUFACTURING COMPANY SHALL BE ON THE UNDERSIDE OF THE COVER.
7. ASSEMBLY SHALL BE DESIGNED FOR HIGHWAY LOADING OF HS 20-44.
8. 2.0"x1.0" DIAMOND MAT 0.125" DEEP.







D SEWER CLEANOUT DETAIL
N.T.S.

AGENCY INFORMATION:

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SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS M.S. MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	LKR
CHK'D BY:	MVC
ISSUE DATE:	11/15/2019

SHEET TITLE

CIVIL IMPROVEMENTS NOTES AND DETAILS

SHEET NUMBER

PHASE III

C1.10

DSA SUBMITTAL

PLOT DATE: 2019-07-29 10:36:45 AM
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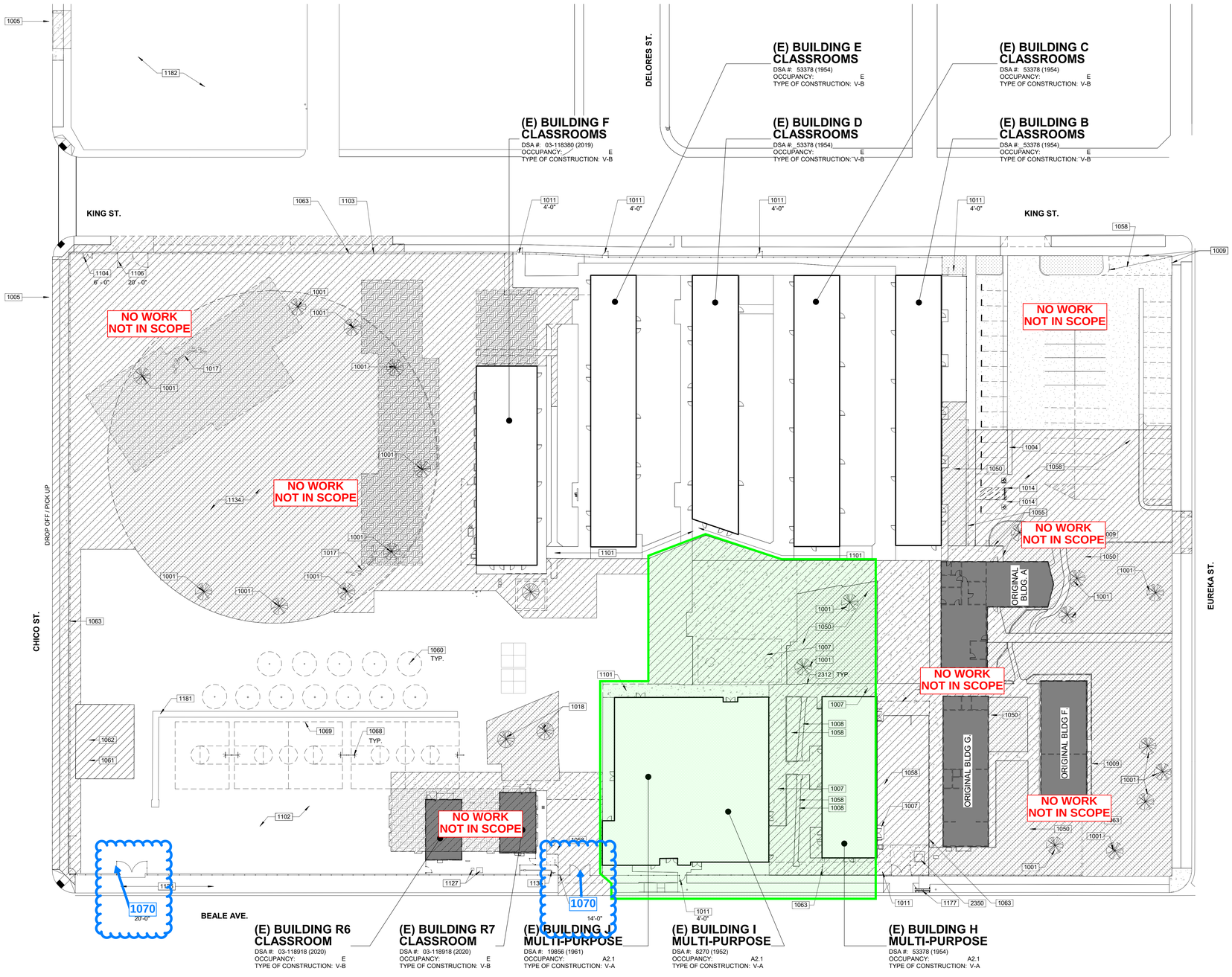

1 DEMOLITION SITE PLAN
1" = 30'-0"

DEMOLITION NOTES

1. ALL MATERIAL INDICATED TO BE REMOVED IS TO BE DISPOSED OF OFF SITE IN A LEGAL MANNER, UNLESS INDICATED TO BE SALVAGED OR REINSTALLED.
2. CONTRACTOR SHALL PROTECT PORTIONS OF EXISTING CONSTRUCTION NOT INDICATED TO BE DEMOLISHED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT AND REPAIR OF ITEMS TO REMAIN.
3. REFER TO OTHER PLANS FOR ADDITIONAL DEMOLITION WORK.
4. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DEMOLITION OF MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS.
5. REFER TO FLOOR PLANS FOR PATCHING AND REINSTALLATION OF EXISTING CONSTRUCTION.
6. PARTIAL DEMOLITION SHALL INCLUDE TRIMMING AND CAPPING SYSTEMS THAT ARE TO REMAIN OPERABLE.
7. CONTRACTOR SHALL COORDINATE WITH HAZARDOUS MATERIAL CONSULTANT FOR REMOVAL OF HAZARDOUS MATERIALS.
8. DEMOLITION PLAN IS DIAGRAMMATIC. CONTRACTOR SHALL REMOVE EXTENT REQUIRED FOR THE INSTALLATION OF (N) WORK.

1000 - KEYNOTES

1001	REMOVE EXISTING TREE AND ASSOCIATED ROOTS, MIN 2'-0" BELOW GRADE
1004	REMOVE PORTION OF EXISTING CONCRETE VALLEY GUTTER
1005	REMOVE EXISTING SIDEWALK AS INDICATED
1007	REMOVE EXISTING CONCRETE WALK
1008	REMOVE EXISTING CONCRETE VALLEY GUTTER
1009	REMOVE CONCRETE CURB
1011	EXISTING CHAINLINK GATE TO REMAIN
1014	REMOVE EXISTING STRIPING AND PREPARE SURFACE FOR RESTRIPING IN KIND
1017	REMOVE EXISTING BACKSTOP IN ITS ENTIRETY
1018	(E) TREE TO REMAIN, PROTECT IN PLACE
1050	REMOVE EXISTING TURF AS INDICATED
1055	REMOVE ORNAMENTAL IRON FENCE
1058	REMOVE EXISTING ASPHALT AS INDICATED
1060	REMOVE EXISTING TETHER BALL POLE AND FOUNDATION. PATCH AC PAVING AS REQUIRED
1061	REMOVE AND SALVAGE EXISTING PLAY EQUIPMENT. RETURN PLAY EQUIPMENT BACK TO THE SCHOOL DISTRICT
1062	REMOVE EXISTING PLAY BOX
1063	REMOVE EXISTING CHAINLINK FENCE
1068	REMOVE EXISTING BASKETBALL HOOP AND FOUNDATION. PATCH AC PAVING AS REQUIRED
1069	REMOVE EXISTING PLAY STRIPING AND PREPARE SURFACE FOR RESTRIPING IN KIND
1101	(E) CONCRETE WALK TO REMAIN
1102	(E) A.C. PAVED AREA TO REMAIN
1103	(E) CHAIN LINK FENCE TO REMAIN
1104	(E) PEDESTRIAN GATE TO REMAIN. SIZE AS SPECIFIED
1106	(E) FIRE ACCESS GATE TO REMAIN, SIZE AS SPECIFIED. PROVIDE KNOX BOX PER DETAIL 9/1A8000.
1126	(E) SIDEWALK TO REMAIN
1127	(E) ELECTRICAL EQUIPMENT AND HOUSEKEEPING PAD TO REMAIN
1134	LANDSCAPING TO REMAIN
1135	(E) BACKFLOW PREVENTER TO REMAIN
1177	(E) UTILITY POLE TO REMAIN
1181	(E) CONCRETE GUTTER TO REMAIN
1182	PREPARE SOIL TO RECIEVE NEW SITE IMPROVEMENTS
2312	EXISTING PIPE COLUMNS TO REMAIN. PROTECT FROM DAMAGE DURING DEMOLITION ACTIVITIES
2350	EXISTING ELECTRICAL TRANSFORMER TO REMAIN IN PLACE. PROTECT FROM DAMAGE DURING DEMOLITION
1070	REMOVE AND REPLACE (E)CHAINLINK GATE AND POSTS. SEE DETAIL 15/A8001

LEGEND

- REMOVE EXISTING CONSTRUCTION. REFER TO DEMOLITION KEYNOTES FOR ADDITIONAL INFORMATION
- REMOVE EXISTING SOIL PREP FOR RELOCATABLE FOUNDATION
- REMOVE EXISTING A.C. PAVING REFER TO KEYNOTES FOR ADDITIONAL INFO
- REMOVE EXISTING CONCRETE ELEMENTS REFER TO KEYNOTES FOR ADDITIONAL INFO
- REMOVE EXISTING TURF/LANDSCAPING REFER TO KEYNOTES FOR ADDITIONAL INFO
- REMOVE EXISTING BUILDING REFER TO KEYNOTES FOR ADDITIONAL INFO
- EXCAVATION SITES FOR MODULAR FOUNDATIONS OVEREXCAVATE AND RECOMPACT PER SOILS REPORT RECOMMENDATION

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	htm/cz
CHK'D BY:	rRz/RM
ISSUE DATE:	11/21/2019

SHEET TITLE

SITE PLAN - DEMOLITION

SHEET NUMBER

PHASE III

A1000

PLOT DATE: 2020-03-06 1:37:46 PM
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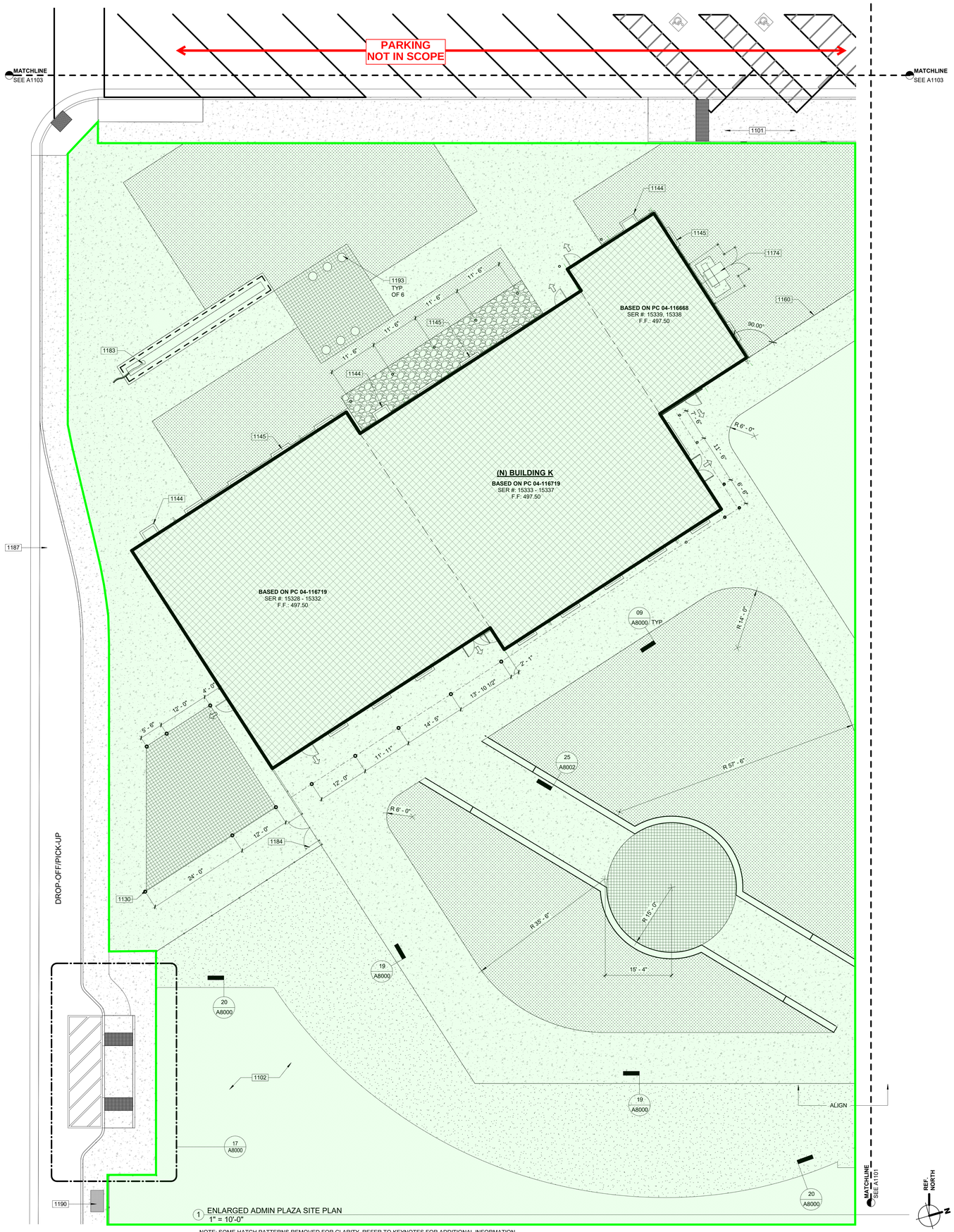

1 ENLARGED ADMIN PLAZA SITE PLAN
1" = 10'-0"

NOTE: SOME HATCH PATTERNS REMOVED FOR CLARITY. REFER TO KEYNOTES FOR ADDITIONAL INFORMATION

1000-GENERAL NOTES

1. REFER TO CIVIL, PLUMBING, AND ELECTRICAL DRAWINGS FOR UNDERGROUND UTILITIES.
2. PRIOR TO ANY UNDERGROUND SITE WORK, VERIFY LOCATION OF ALL EXISTING UTILITIES WITH UNDERGROUND SERVICE ALERT (U.S.A.).

KEYNOTES

1101	(E) CONCRETE WALK TO REMAIN
1102	(E) A.C. PAVED AREA TO REMAIN
1130	COLUMN PER STRUCTURAL DRAWINGS
1144	FOUNDATION ACCESS HATCH PER MODULAR DRAWINGS
1145	FOUNDATION VENT, PER MODULAR DRAWINGS. PROVIDE ADA COMPLIANT GRATE AT PATH-OF-TRAVEL LOCATIONS
1160	ORNAMENTAL FENCE PER DETAIL 04/A8001
1174	ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS
1183	FLAG POLE, SEE STRUCTURAL
1184	ORNAMENTAL GATE PER DETAIL 14/A8001
1187	CONCRETE GUTTER PER CIVIL
1190	AT&T PULL-BOX BY OTHERS. FLUSH TO PAVEMENT
1193	CONCRETE SEAT PER DETAIL 18/A8002

LEGEND

NOTE: ALL SYMBOLS, PATTERS, OR LINETYPES MAY NOT NECCESSARILY OCCUR THIS SHEET

- ASSUMED PROPERTY LINE
- PROPERTY LINE
- CHAIN LINK FENCE 6'-0" HIGH U.O.N., SEE DETAIL 10 / A8001
- ORNAMENTAL FENCE 6'-0" HIGH U.O.N., SEE DETAIL 04 / A8001
- ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE AT LEAST 48" WIDE, WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAX. SLOPE. EXCEPT LEVEL CHANGES THAT DO NOT EXCEED 2% AND SLOPES IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5%. "PASSING SPACES" AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART. PART OF ACCESSIBLE PATH OF TRAVEL WITH CONTINUOUS GRADIENTS HAVE 60' LEVEL AREAS NOT MORE THAN 400' APART. P.O.T. SHALL BE FREE OF OBSTRUCTIONS OVERHANGING WITHIN 80" ABOVE WALKING SURFACE AND PROJECTING GREATER THAN 4" FROM WALL SURFACES BETWEEN 27" AND 80" ABOVE WALKING SURFACE, CBC 2016 SECTION 11B
  THE ARCHITECT SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEE REMOVED. GATES IN PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS PER CBC SECTION 11B-404.1
- ⇨ ACCESSIBLE BUILDING EXIT
- NEW BUILDING TO BE CONSTRUCTED AS PART OF DSA APPLICATION NUMBER AND CONTRACT
- 4" THICK CONCRETE WALK W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. MEDIUM BROOM FINISH. SEE DETAIL 09 / A8000 FOR TYPICAL WALK EDGE AT LANDSCAPE AREA.
- AC PAVING. SEE CIVIL DRAWINGS FOR PAVEMENT SECTION.
- TURF, SEE LANDSCAPE.
- STAMPED PATTERN - 4" THICK CONCRETE WALK W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. "ROMAN SLATE", INTEGRAL COLOR
- ROCK COBBLE, SEE LANDSCAPE DRAWINGS
- INSERT SKATE DETERRENT. SEE DETAIL 30 / A8002

AGENCY INFORMATION:

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No. C18079
REN. 10/21
STATE OF CALIFORNIA

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT
Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	htm/cz
CHK'D BY:	rRr/RM
ISSUE DATE:	11/21/2019

SHEET TITLE

PARTIAL SITE PLAN

SHEET NUMBER

PHASE III

A1100

PLOT DATE: 2020-03-06 1:38:12 PM
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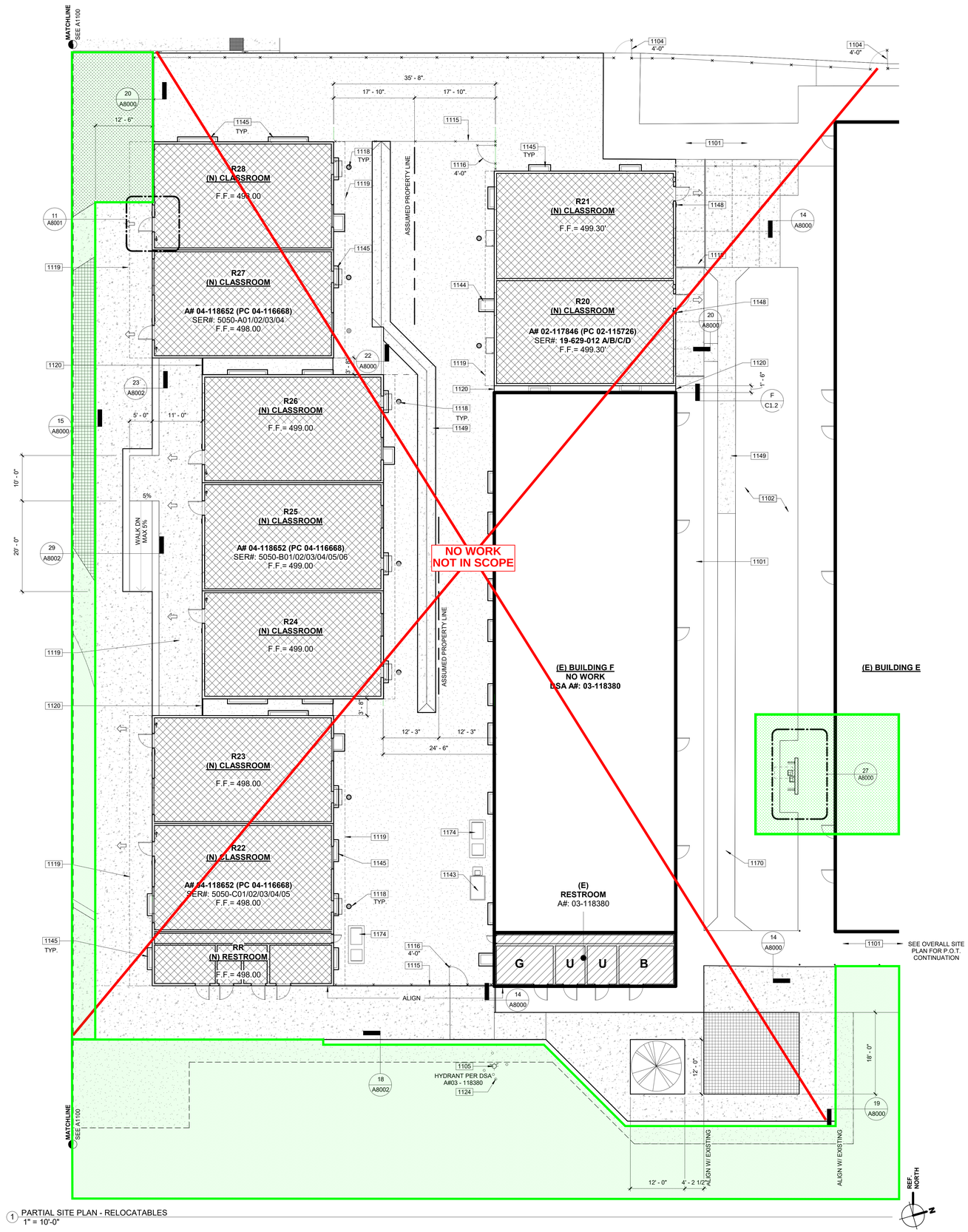

1 PARTIAL SITE PLAN - RELOCATABLES
1" = 10'-0"

1000-GENERAL NOTES

1. REFER TO CIVIL, PLUMBING, AND ELECTRICAL DRAWINGS FOR UNDERGROUND UTILITIES.
2. PRIOR TO ANY UNDERGROUND SITE WORK, VERIFY LOCATION OF ALL EXISTING UTILITIES WITH UNDERGROUND SERVICE ALERT (U.S.A.).

KEYNOTES

1101	(E) CONCRETE WALK TO REMAIN
1102	(E) A.C. PAVED AREA TO REMAIN
1104	(E) PEDESTRIAN GATE TO REMAIN. SIZE AS SPECIFIED
1105	(E) FIRE HYDRANT TO REMAIN
1115	CHAIN LINK FENCE, SEE DETAIL 10/A8001
1116	CHAIN LINK GATE, SIZE AS SPECIFIED. SEE DETAIL 15/A8001
1118	DRYWELL, SEE DETAIL 06/A8001
1119	MODULAR BUILDING OVERHANG, SHOWN DASHED
1120	CLOSURE PANEL, SEE DETAIL 02/A8001
1124	(E) BOLLARD TO REMAIN
1143	(E) HVAC UNIT TO REMIAN
1144	FOUNDATION ACCESS HATCH PER MODULAR DRAWINGS
1145	FOUNDATION VENT, PER MODULAR DRAWINGS. PROVIDE ADA COMPLIANT GRATE AT PATH-OF-TRAVEL LOCATIONS
1148	MODULAR CLASSROOM SIGNAGE, SEE DETAIL 8/A8500 FOR MOUNTING HEIGHT
1149	4' WIDE CONCRETE GUTTER, SEE CIVIL
1170	(E) CONCRETE V GUTTER TO REMAIN
1174	ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS

LEGEND

NOTE: ALL SYMBOLS, PATTERS, OR LINETYPES MAY NOT NECCESSARILY OCCUR THIS SHEET

- ASSUMED PROPERTY LINE
- PROPERTY LINE
- CHAIN LINK FENCE 6'-0" HIGH U.O.N.
- ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE AT LEAST 48" WIDE, WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAX. SLOPE, EXCEPT LEVEL CHANGES THAT DO NOT EXCEED 2% AND SLOPES IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5%. "PASSING SPACES" AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART. PART OF ACCESSIBLE PATH OF TRAVEL WITH CONTINUOUS GRADIENTS HAVE 60' LEVEL AREAS NOT MORE THAN 400' APART. P.O.T. SHALL BE FREE OF OBSTRUCTIONS OVERHANGING WITHIN 80" ABOVE WALKING SURFACE AND PROJECTING GREATER THAN 4" FROM WALL SURFACES BETWEEN 27" AND 80" ABOVE WALKING SURFACE, CBC 2016 SECTION 11B
  THE ARCHITECT SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEE REMOVED. GATES IN PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS PER CBC SECTION 11B-404.1
- ACCESSIBLE BUILDING EXIT
- NEW BUILDING TO BE CONSTRUCTED AS PART OF DSA APPLICATION NUMBER AND CONTRACT
- EXISTING ACCESSIBLE STUDENT OR STAFF RESTROOM PER DSA APPLICATION NUMBER AS INDICATED.(B - BOYS , G - GIRLS, U-UNISEX)
- 4" THICK CONCRETE WALK W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. MEDIUM BROOM FINISH, SEE DETAIL 14/1A8000 FOR TYPICAL WALK EDGE AT LANDSCAPE AREA.
- AC PAVING. SEE CIVIL DRAWINGS FOR PAVEMENT SECTION.
- CONTROL JOINT AT 6'-0" O.C. U.O.N.PER DETAIL10 / A8000
- EXPANSION JOINT AT 18'-0" O.C. U.O.N PER DETAIL15 / A8000
- TURF, SEE LANDSCAPE.
- STAMPED PATTERN - 4" THICK CONCRETE WALK W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. "ROMAN SLATE", INTEGRAL COLOR
- INSERT SKATE DETERRENT. SEE DETAIL 30 / A8002

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ibigroup.com

BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT Where The Child Comes First

BESSIE OWENS JR HIGH MODULAR CLASSROOM BUILDINGS

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	htm/cz
CHK'D BY:	rRr/RM
ISSUE DATE:	11/21/2019

SHEET TITLE

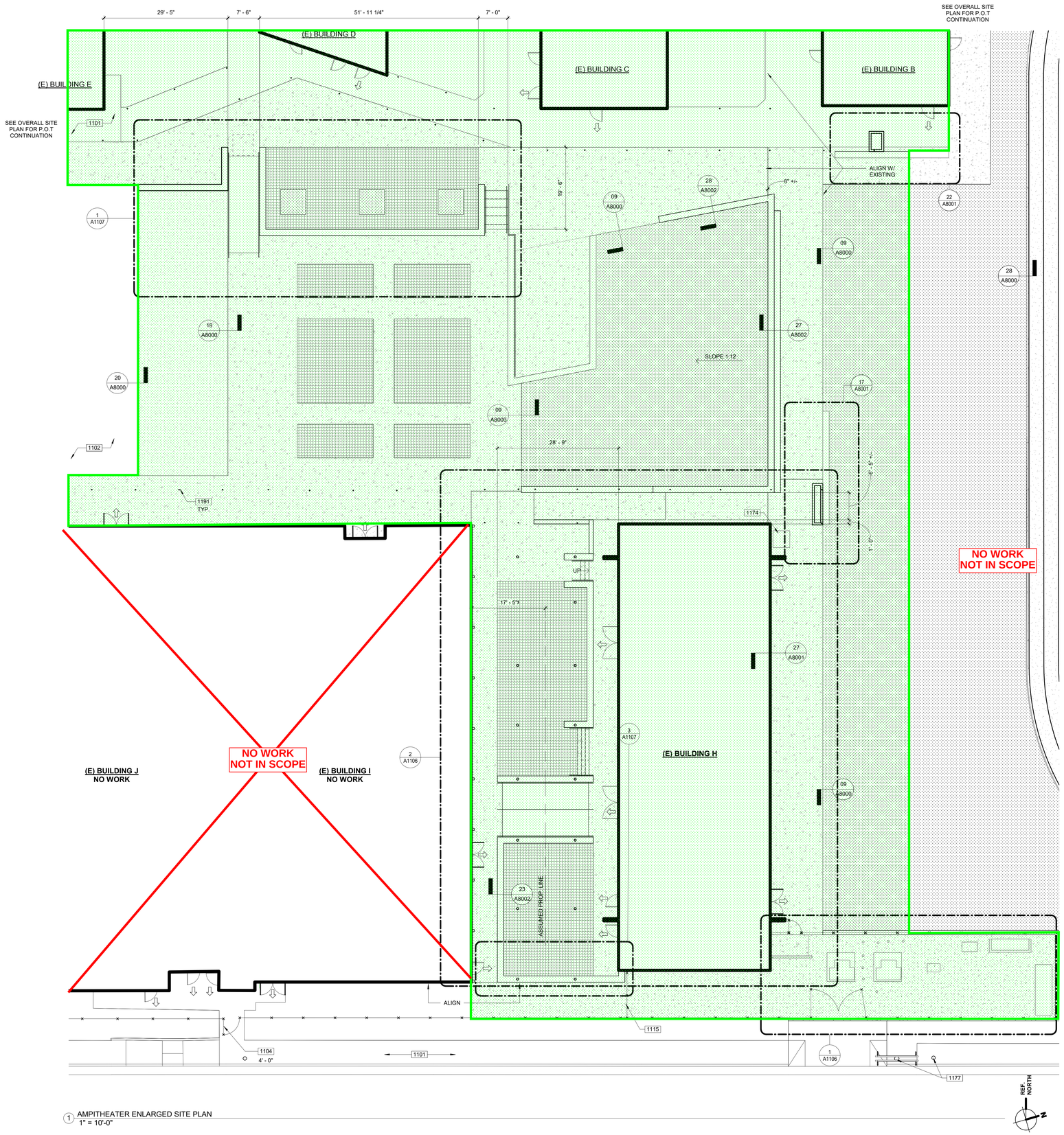
PARTIAL SITE PLAN

SHEET NUMBER

PHASE III

A1101

PLOT DATE: 2020-03-06 1:38:17 PM C:\Users\cesar.zaragoza\Documents\REVIT20181\ATW-118934-BessieOwensMS_Site 05-26-19_r2018_cesar.zaragoza.rvt



1 AMPITHEATER ENLARGED SITE PLAN
1" = 10'-0"

1000-GENERAL NOTES

1. REFER TO CIVIL, PLUMBING, AND ELECTRICAL DRAWINGS FOR UNDERGROUND UTILITIES.
2. PRIOR TO ANY UNDERGROUND SITE WORK, VERIFY LOCATION OF ALL EXISTING UTILITIES WITH UNDERGROUND SERVICE ALERT (U.S.A.).

KEYNOTES

1101	(E) CONCRETE WALK TO REMAIN
1102	(E) A.C. PAVED AREA TO REMAIN
1104	(E) PEDESTRIAN GATE TO REMAIN. SIZE AS SPECIFIED
1115	CHAIN LINK FENCE, SEE DETAIL 10/A8001
1174	ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS
1177	(E) UTILITY POLE TO REMAIN
1191	(E) STEEL COLUMNS TO REMAIN, PROTECT AND MAINTAIN THROUGHOUT THE DURATION OF CONSTRUCTION

LEGEND

NOTE: ALL SYMBOLS, PATTERS, OR LINETYPES MAY NOT NECCESSARILY OCCUR THIS SHEET

- ASSUMED PROPERTY LINE
- PROPERTY LINE
- CHAIN LINK FENCE 6'-0" HIGH U.O.N., SEE DETAIL 10 / A8001
- ORNAMENTAL FENCE 6'-0" HIGH U.O.N., SEE DETAIL 04 / A8001
- ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE AT LEAST 48" WIDE, WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAX. SLOPE, EXCEPT LEVEL CHANGES THAT DO NOT EXCEED 2% AND SLOPES IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5%. "PASSING SPACES" AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART. PART OF ACCESSIBLE PATH OF TRAVEL WITH CONTINUOUS GRADIENTS HAVE 60' LEVEL AREAS NOT MORE THAN 400' APART. P.O.T. SHALL BE FREE OF OBSTRUCTIONS OVERHANGING WITHIN 80" ABOVE WALKING SURFACE AND PROJECTING GREATER THAN 4" FROM WALL SURFACES BETWEEN 27" AND 80" ABOVE WALKING SURFACE, CBC 2016 SECTION 11B
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- AC PAVING. SEE CIVIL DRAWINGS FOR PAVEMENT SECTION.
- CONTROL JOINT AT 6'-0" O.C. U.O.N.PER DETAIL10 / A8000
- EXPANSION JOINT AT 18'-0" O.C. U.O.N PER DETAIL 15 / A8000
- TURF / LANDSCAPE, SEE LANDSCAPE.
- STAMPED PATTERN - 4" THICK CONCRETE WALK W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. "ROMAN SLATE", INTEGRAL COLOR
- INSERT SKATE DETERRENT. SEE DETAIL 30 / A8002

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

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PROJECT NO:	118934
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CHK'D BY:	rRr/RM
ISSUE DATE:	11/21/2019

SHEET TITLE

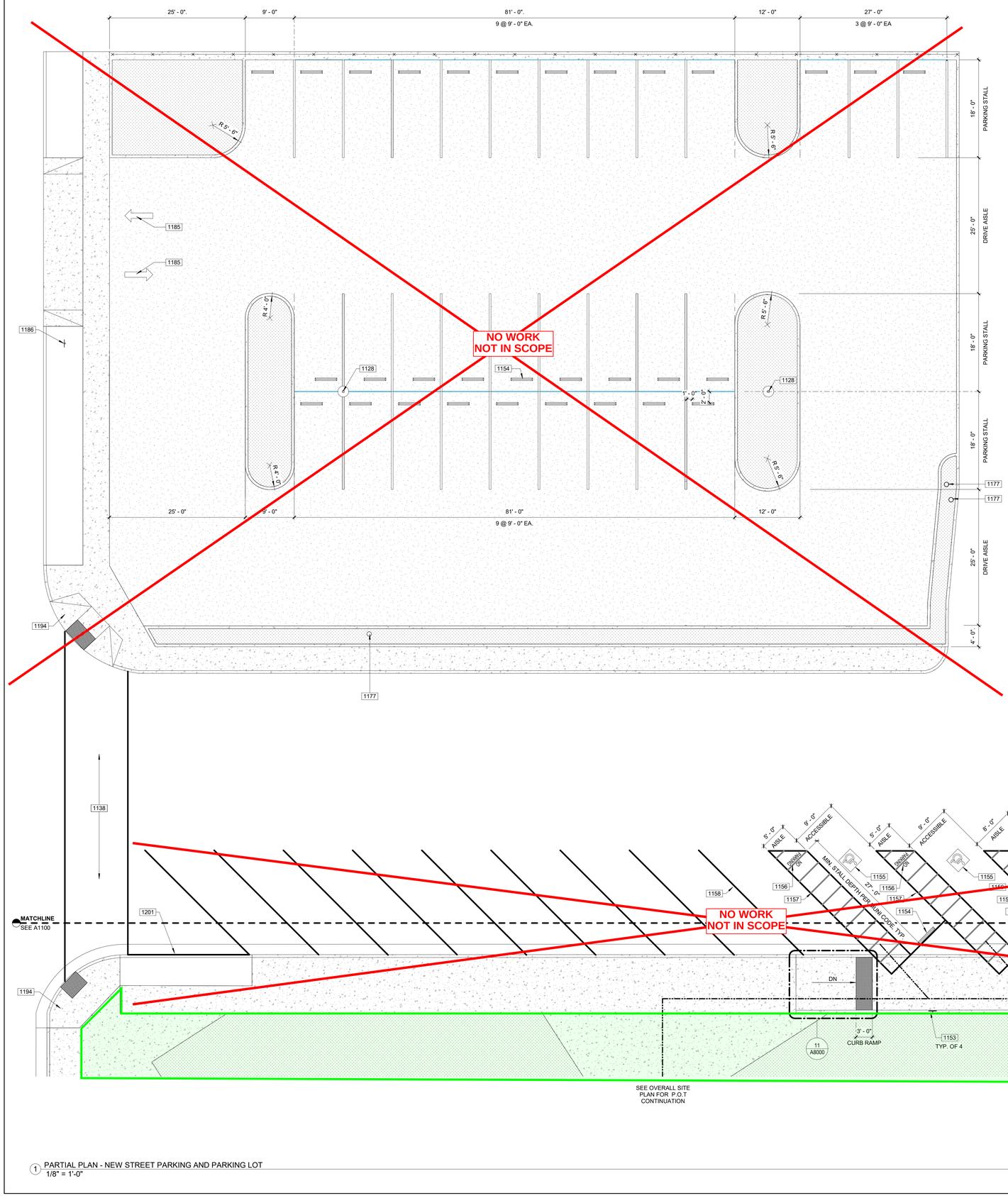
PARTIAL SITE PLAN

SHEET NUMBER

PHASE III

A1102

PLOT DATE: 2020-03-06 1:38:45 PM C:\Users\cruz.zaragoza\Documents\REVIT20181\KTN-118934-BessieOwensMS_Site 06-26-19_v2018_carlos.zaragoza.rvt



1 PARTIAL PLAN - NEW STREET PARKING AND PARKING LOT
1/8" = 1'-0"

1000-GENERAL NOTES

1. REFER TO CIVIL, PLUMBING, AND ELECTRICAL DRAWINGS FOR UNDERGROUND UTILITIES.
2. PRIOR TO ANY UNDERGROUND SITE WORK, VERIFY LOCATION OF ALL EXISTING UTILITIES WITH UNDERGROUND SERVICE ALERT (U.S.A.).

KEYNOTES

1128	LIGHT POST, SEE ELECTRICAL DRAWINGS
1138	(E) CROSSWALK TO REMAIN
1153	ACCESSIBLE PARKING SIGN PER DETAIL 03/A8000
1154	PRECAST CONCRETE WHEELSTOP PER DETAIL 12/A8000
1155	3'-0" x 3'-0" PAINTED ISA SYMBOL PER DETAIL 02/A8000
1156	12" HIGH 'NO PARKING' LETTERS, PAINTED WHITE
1157	DIAGONAL 4" WIDE STRIPES AT 36" O.C., CONTRASTING COLOR WITH BACKGROUND REQUIREDPER DETAIL 07/A8000
1158	4" WIDE STRIPES AT PERIMETER PER DETAIL 07/A8000
1169	4" WHITE PARKING STRIPE
1177	(E) UTILITY POLE TO REMAIN
1185	PAINTED TRAFFIC DIRECTION ARROW PER DETAIL 26/A8000
1186	PARKING LOT ENTRY SIGN PER DETAIL 08/A8000
1194	(E) CURB CUT TO REMAIN
1201	PAINT CURB RED FROM CROSSWALK TO FIRST PARKING STALL

LEGEND

NOTE: ALL SYMBOLS, PATTERS, OR LINETYPES MAY NOT NECCESSARILY OCCUR THIS SHEET

- ASSUMED PROPERTY LINE
- PROPERTY LINE
- CHAIN LINK FENCE 6'-0" HIGH U.O.N., SEE DETAIL 10 / A8001
- ORNAMENTAL FENCE 6'-0" HIGH U.O.N., SEE DETAIL 04 / A8001
- ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE AT LEAST 48" WIDE, WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAX. SLOPE, EXCEPT LEVEL CHANGES THAT DO NOT EXCEED 2% AND SLOPES IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5%. "PASSING SPACES" AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART. PART OF ACCESSIBLE PATH OF TRAVEL WITH CONTINUOUS GRADIENTS HAVE 60' LEVEL AREAS NOT MORE THAN 400' APART. P.O.T. SHALL BE FREE OF OBSTRUCTIONS OVERHANGING WITHIN 80" ABOVE WALKING SURFACE AND PROJECTING GREATER THAN 4" FROM WALL SURFACES BETWEEN 27" AND 80" ABOVE WALKING SURFACE, CBC 2016 SECTION 11B
  THE ARCHITECT SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEE REMOVED. GATES IN PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS PER CBC SECTION 11B-404.1
- ACCESSIBLE BUILDING EXIT
- NEW BUILDING TO BE CONSTRUCTED AS PART OF DSA APPLICATION NUMBER AND CONTRACT
- 4" THICK CONCRETE WALK W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. MEDIUM BROOM FINISH. SEE DETAIL 6/2A8000 FOR TYPICAL WALK EDGE AT LANDSCAPE AREA.
- AC PAVING. SEE CIVIL DRAWINGS FOR PAVEMENT SECTION.
- CONTROL JOINT AT 6'-0" O.C. U.O.N.PER DETAIL10 / A8000
- EXPANSION JOINT AT 18'-0" O.C. U.O.N PER DETAIL 15 / A8000
- TURF / LANDSCAPE, SEE LANDSCAPE.
- STAMPED PATTERN - 4" THICK CONCRETE WALK W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. "ROMAN SLATE", INTEGRAL COLOR
- INSERT SKATE DETERRENT. SEE DETAIL 30 / A8002

AGENCY INFORMATION:

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APP. 03-120102 INC:
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DATE: 03/27/2020

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LICENSED ARCHITECT
RICHARD MELLO
No. C18079
REN. 10/21
STATE OF CALIFORNIA

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805.546.0433 fax: 805.546.0504
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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JR HIGH MODULAR CLASSROOM BUILDINGS
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	htm/cz
CHK'D BY:	rRr/RM
ISSUE DATE:	11/21/2019

SHEET TITLE

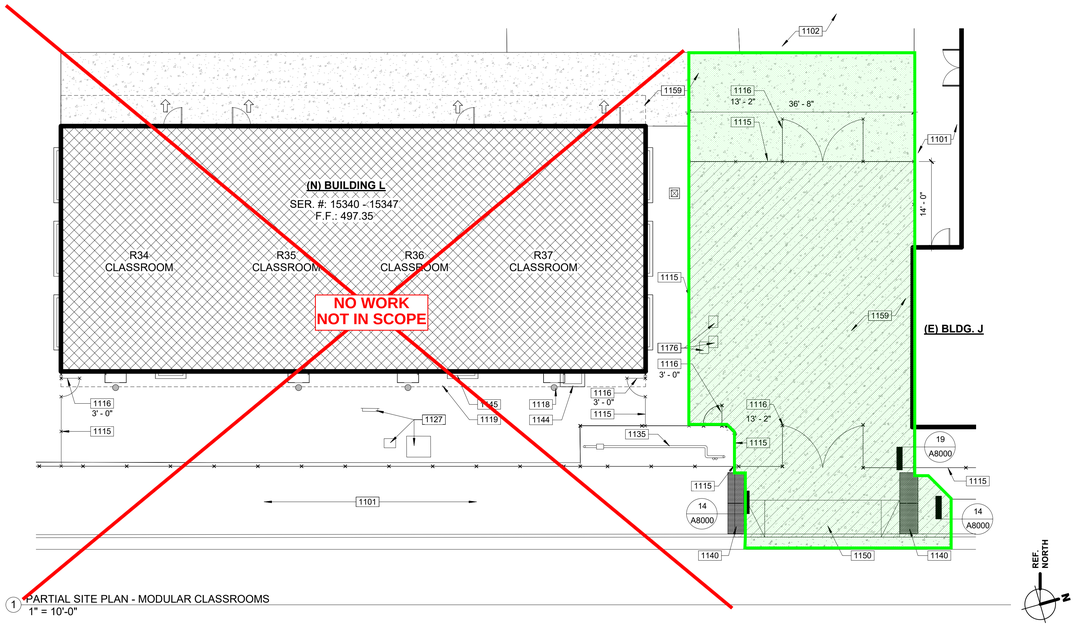
PARTIAL SITE PLAN - PARKING LOTS

SHEET NUMBER

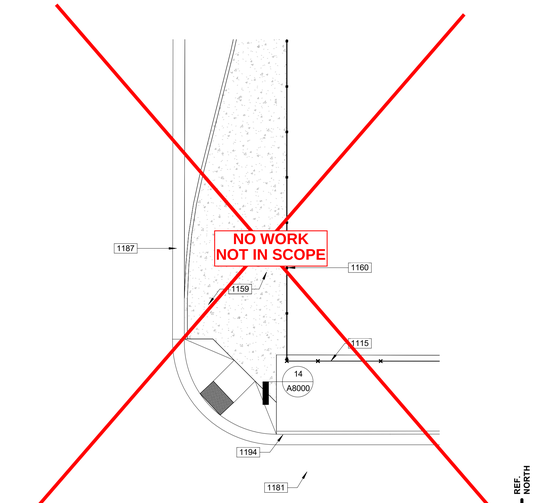
PHASE III

A1103

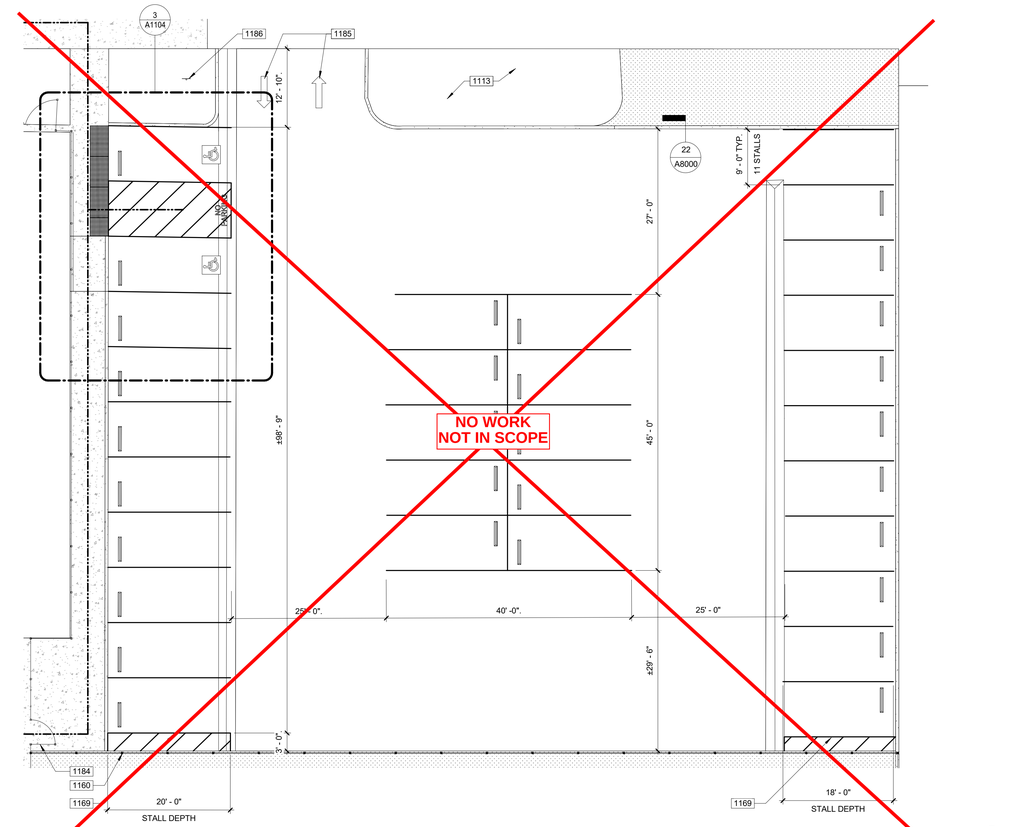
PLOT DATE: 2020-03-16 3:23:08 PM C:\Users\cms.zaragoza\Documents\REVIT2019\PATH-118934-BessieOwensJrS_Site 05-28-19_v2019_carlos.zaragoza.rvt



1 PARTIAL SITE PLAN - MODULAR CLASSROOMS
1" = 10'-0"

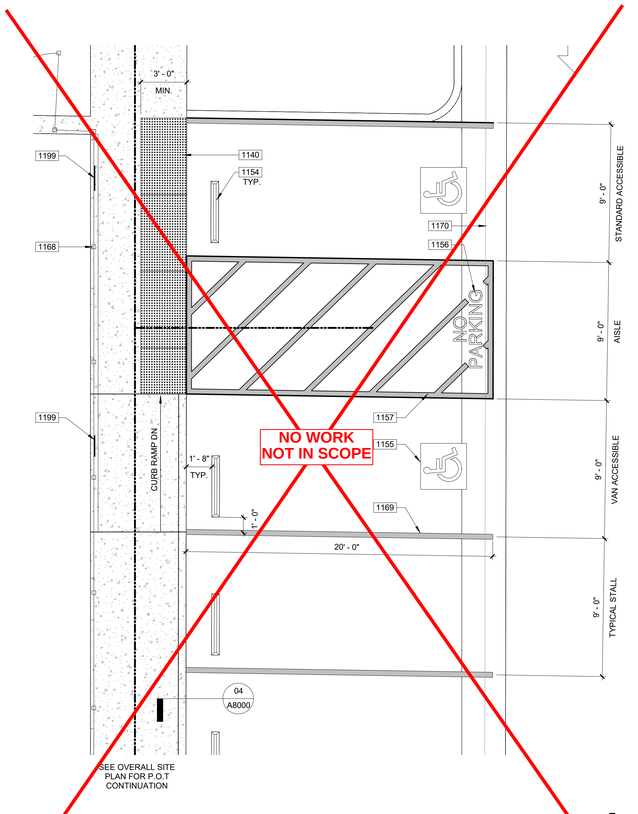


5 PARTIAL SITE PLAN - STREET CORNER
1" = 10'-0"



4 PARTIAL SITE PLAN - PARKING LOT #1
1" = 10'-0"

NOTE: SOME HATCH PATTERNS OMITTED FOR CLARITY. REFER TO KEYNOTES FOR ADDITIONAL INFORMATION



3 ENLARGED ACCESSIBLE STALLS
1/4" = 1'-0"

NOTE: SOME HATCH PATTERNS OMITTED FOR CLARITY. REFER TO KEYNOTES FOR ADDITIONAL INFORMATION

KEYNOTES

1101	(E) CONCRETE WALK TO REMAIN
1102	(E) A.C. PAVED AREA TO REMAIN
1113	(E) TURF AREA TO REMAIN
1115	CHAIN LINK FENCE, SEE DETAIL 10/A8001
1116	CHAIN LINK GATE, SIZE AS SPECIFIED. SEE DETAIL 15/A8001
1118	DRYWELL, SEE DETAIL 06/A8001
1119	MODULAR BUILDING OVERHANG, SHOWN DASHED
1127	(E) ELECTRICAL EQUIPMENT AND HOUSEKEEPING PAD TO REMAIN
1135	(E) BACKFLOW PREVENTER TO REMAIN
1140	TRUNCATED DOMES PER DETAIL 1/A8000
1144	FOUNDATION ACCESS HATCH PER MODULAR DRAWINGS
1145	FOUNDATION VENT, PER MODULAR DRAWINGS. PROVIDE ADA COMPLIANT GRATE AT PATH-OF-TRAVEL LOCATIONS
1150	DRIVE APPROACH, SEE CIVIL
1154	PRECAST CONCRETE WHEELSTOP PER DETAIL 12/A8000
1155	3'-0" x 3'-0" PAINTED ISA SYMBOL PER DETAIL 02/A8000
1156	12" HIGH 'NO PARKING' LETTERS, PAINTED WHITE
1157	DIAGONAL 4" WIDE STRIPES AT 36" O.C., CONTRASTING COLOR WITH BACKGROUND REQUIREDPER DETAIL 07/A8000
1159	CONCRETE WALKWAY PER DETAIL 05/A8000
1160	ORNAMENTAL FENCE PER DETAIL 04/A8001
1168	(E) ORNAMENTAL FENCE TO REMAIN
1169	4" WHITE PARKING STRIPE
1170	(E) CONCRETE V GUTTER TO REMAIN
1176	CONDENSATE WELL LID
1181	(E) CONCRETE GUTTER TO REMAIN
1184	ORNAMENTAL GATE PER DETAIL 14/A8001
1185	PAINTED TRAFFIC DIRECTION ARROW PER DETAIL 26/A8000
1186	PARKING LOT ENTRY SIGN PER DETAIL 08/A8000
1187	CONCRETE GUTTER PER CIVIL
1194	(E) CURB CUT TO REMAIN
1199	ACCESSIBLE PARKING SIGN PER DETAIL 03/A8001, SIGN TO BE CENTERED WITH PARKING STALL

LEGEND

NOTE: ALL SYMBOLS, PATTERS, OR LINETYPES MAY NOT NECCESSARILY OCCUR THIS SHEET

- ASSUMED PROPERTY LINE
- PROPERTY LINE
- CHAIN LINK FENCE 6'-0" HIGH U.O.N., SEE DETAIL 10 / A8001
- ORNAMENTAL FENCE 6'-0" HIGH U.O.N., SEE DETAIL 04 / A8001
- INSERT SKATE DETERRENT. SEE DETAIL
- ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE AT LEAST 48" WIDE, WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAX. SLOPE, EXCEPT LEVEL CHANGES THAT DO NOT EXCEED 2% AND SLOPES IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5%. "PASSING SPACES" AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART. PART OF ACCESSIBLE PATH OF TRAVEL WITH CONTINUOUS GRADIENTS HAVE 60' LEVEL AREAS NOT MORE THAN 400' APART. P.O.T. SHALL BE FREE OF OBSTRUCTIONS OVERHANGING WITHIN 80" ABOVE WALKING SURFACE AND PROJECTING GREATER THAN 4" FROM WALL SURFACES BETWEEN 27" AND 80" ABOVE WALKING SURFACE, CBC 2016 SECTION 11B
  THE ARCHITECT SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEE REMOVED. GATES IN PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS PER CBC SECTION 11B-404.1
- ACCESSIBLE BUILDING EXIT
- (E) BUILDING TO REMAIN
- NEW BUILDING TO BE CONSTRUCTED AS PART OF DSA APPLICATION NUMBER AND CONTRACT
- 4" THICK CONCRETE WALK W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. MEDIUM BROOM FINISH. SEE DETAIL 6/2A8000 FOR TYPICAL WALK EDGE AT LANDSCAPE AREA.
- AC PAVING. SEE CIVIL DRAWINGS FOR PAVEMENT SECTION.
- CONTROL JOINT AT 6'-0" O.C. U.O.N.PER DETAIL10 / A8000
- EXPANSION JOINT AT 18'-0" O.C. U.O.N PER DETAIL15 / A8000
- TURF / LANDSCAPE, SEE LANDSCAPE.
- 6" THICK CONCRETE SLAB W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. MEDIUM BROOM FINISH. SEE CIVIL

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	htm/cz
CHK'D BY:	rRr/RM
ISSUE DATE:	11/21/2019

SHEET TITLE

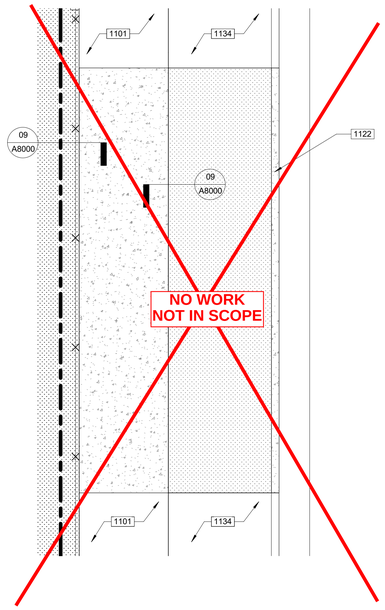
PARTIAL & ENLARGED SITE PLANS

SHEET NUMBER

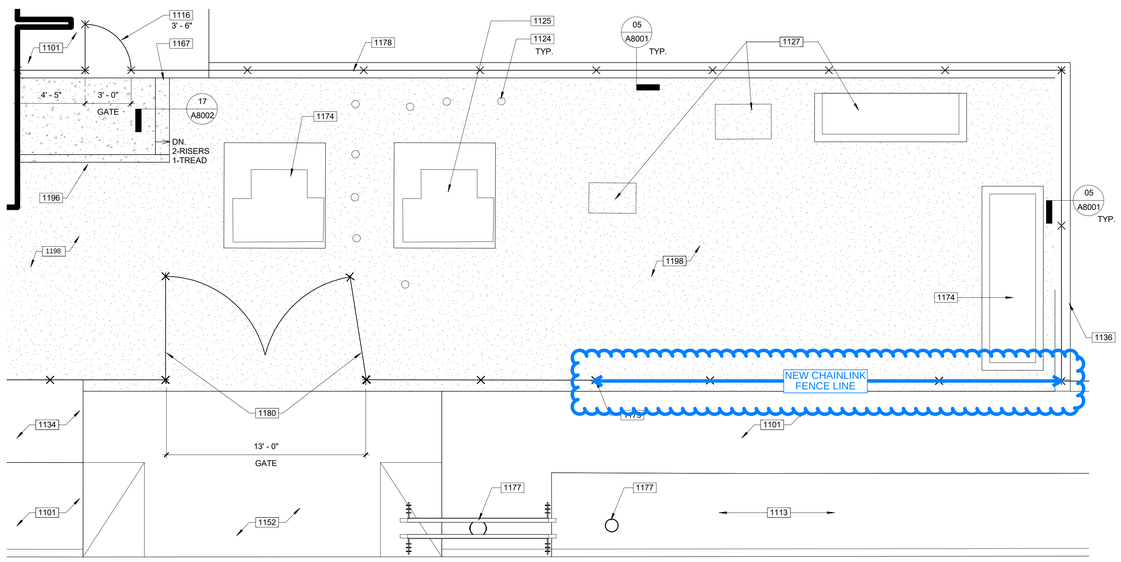
PHASE III

A1104

PLOT DATE: 2020-03-06 1:40:03 PM C:\Users\cortes.zaragoza\Documents\RES\H7201BAT\H-118934-BessieOwensMS_Site_06-26-19_v2016_carlos.zaragoza.rvt

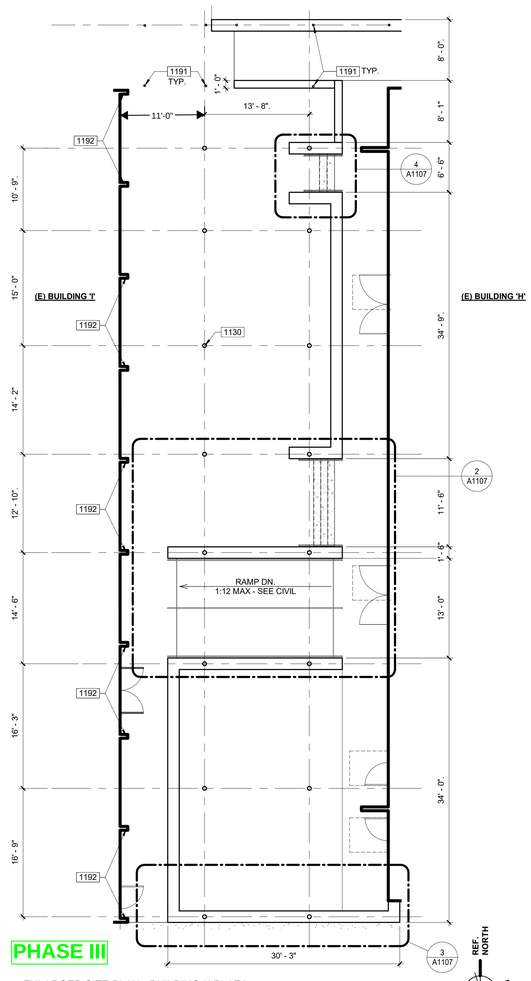


3 MAIN PACKAGE PACKAGE OVERALL SITE PLAN - Callout 1
1/4" = 1'-0"



PHASE III

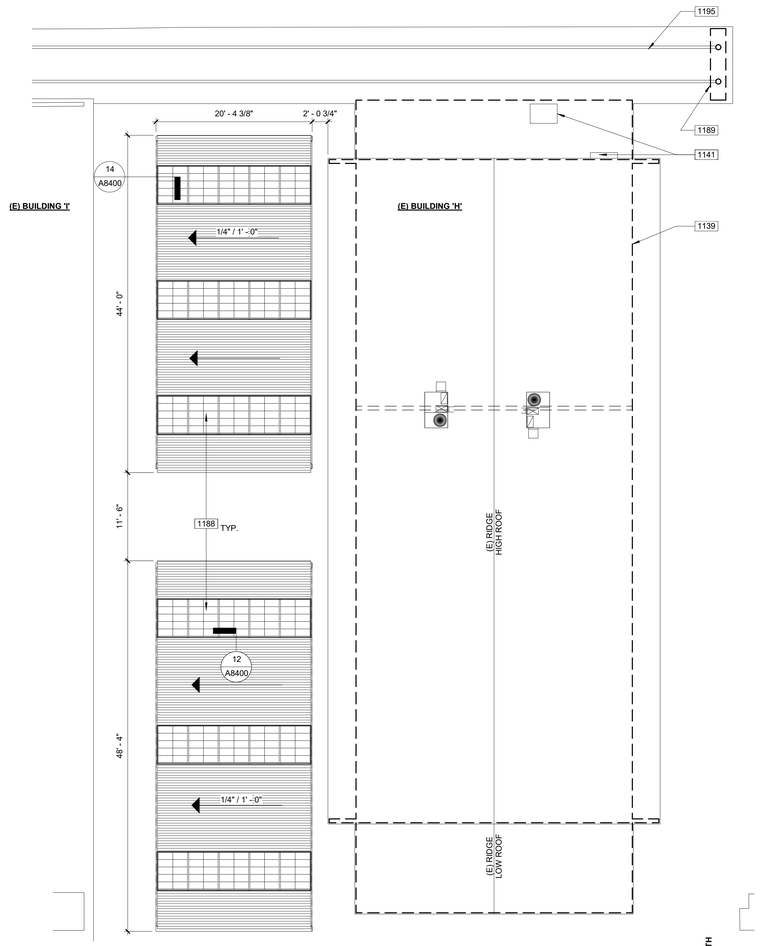
1 PARTIAL SITE PLAN - SERVICE YARD
1/4" = 1'-0"



PHASE III

4 ENLARGED SITE PLAN - BUILDING H PLAZA
1/8" = 1'-0"

NOTE: SOME HATCH PATTERNS OMITTED FOR CLARITY. REFER TO KEYNOTES FOR ADDITIONAL INFORMATION



PHASE III

2 ENLARGED SITE PLAN - BUILDING H ROOF PLAN
1/8" = 1'-0"

NOTE: SOME HATCH PATTERNS OMITTED FOR CLARITY. REFER TO KEYNOTES FOR ADDITIONAL INFORMATION

1000-GENERAL NOTES

1. REFER TO CIVIL, PLUMBING, AND ELECTRICAL DRAWINGS FOR UNDERGROUND UTILITIES.
2. PRIOR TO ANY UNDERGROUND SITE WORK, VERIFY LOCATION OF ALL EXISTING UTILITIES WITH UNDERGROUND SERVICE ALERT (U.S.A.).
3. SEE SHEET A3000 FOR SHADE STRUCTURE FIRE PROOFING REQUIREMENTS

1000 - KEYNOTES

1101	(E) CONCRETE WALK TO REMAIN
1102	(E) A.C. PAVED AREA TO REMAIN
1103	(E) CHAIN LINK FENCE TO REMAIN
1113	(E) TURF AREA TO REMAIN
1116	CHAIN LINK GATE, SIZE AS SPECIFIED. SEE DETAIL 15/A8001
1122	CURB AND GUTTER PER CIVIL DETAIL B/C2
1124	(E) BOLLARD TO REMAIN
1125	(E) MSB / TRANSFORMER TO REMAIN
1127	(E) ELECTRICAL EQUIPMENT AND HOUSEKEEPING PAD TO REMAIN
1130	COLUMN PER STRUCTURAL DRAWINGS
1134	LANDSCAPING TO REMAIN
1136	CHAINLINK FENCE ON CURB SEE DETAIL 05/A8001
1139	BUILDING OUTLINE SHOWN DASHED, TYP.
1141	ELECTRICAL BOXES TO REMAIN
1152	(E) DRIVE APPROACH TO REMAIN
1167	CONCRETE STEP
1174	ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS
1177	(E) UTILITY POLE TO REMAIN
1178	CHAINLINK FENCE WITH PRIVACY SCREENING ON CURB SEE DETAIL 05/A8001
1179	(E) CHAIN LINK FENCE TO REMAIN, PROVIDE PRIVACY SCREENING SLATS
1180	CHAIN LINK GATE WITH PRIVACY SLATS, SIZE AS SPECIFIED. SEE DETAIL 15/A8001
1188	KALWALL SKYLIGHT, A8400 FOR CANOPY DETAILS
1189	CHASE BELOW, SEE DETAIL 21/A8001
1191	(E) STEEL COLUMNS TO REMAIN, PROTECT AND MAINTAIN THROUGHOUT THE DURATION OF CONSTRUCTION
1192	PATCH AND REPAIR WING WALL DUE TO REMOVAL OF CANOPY TO MATCH EXISTING FINISH. SEE DETAIL 8/A8200
1195	(E) CONDUIT TO REMAIN
1196	CONCRETE CURB
1198	AC PAVING PER CIVIL

LEGEND

NOTE: ALL SYMBOLS, PATTERS, OR LINETYPES MAY NOT NECCESSARILY OCCUR THIS SHEET

- ASSUMED PROPERTY LINE
- PROPERTY LINE
- CHAIN LINK FENCE 6'-0" HIGH U.O.N.
- INSERT SKATE DETERRENT. SEE DETAIL 30 / A8002
- ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE AT LEAST 48" WIDE, WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAX. SLOPE, EXCEPT LEVEL CHANGES THAT DO NOT EXCEED 2% AND SLOPES IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5%. "PASSING SPACES" AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART. PART OF ACCESSIBLE PATH OF TRAVEL WITH CONTINUOUS GRADIENTS HAVE 60' LEVEL AREAS NOT MORE THAN 400' APART. P.O.T. SHALL BE FREE OF OBSTRUCTIONS OVERHANGING WITHIN 80" ABOVE WALKING SURFACE AND PROJECTING GREATER THAN 4" FROM WALL SURFACES BETWEEN 27" AND 80" ABOVE WALKING SURFACE, CBC 2016 SECTION 11B
  THE ARCHITECT SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEE REMOVED. GATES IN PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS PER CBC SECTION 11B-404.1
- ACCESSIBLE BUILDING EXIT
- (E) BUILDING TO REMAIN
- NEW BUILDING TO BE CONSTRUCTED AS PART OF DSA APPLICATION NUMBER AND CONTRACT
- 4" THICK CONCRETE WALK W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. MEDIUM BROOM FINISH. SEE DETAIL 6/2A8000 FOR TYPICAL WALK EDGE AT LANDSCAPE AREA.
- AC PAVING. SEE CIVIL DRAWINGS FOR PAVEMENT SECTION.
- CONTROL JOINT AT 6'-0" O.C. U.O.N.PER DETAIL10 / A8000
- EXPANSION JOINT AT 18'-0" O.C. U.O.N PER DETAIL15 / A8000
- TURF, SEE LANDSCAPE.
- TYPE II-B CLASS B STRUCTURAL METAL DECK, SEE STRUCTURAL

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REN. 10/21
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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT
Where The Child Comes First

BESSIE OWENS JR HIGH MODULAR CLASSROOM BUILDINGS
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	htm/cz
CHK'D BY:	rRr/RM
ISSUE DATE:	11/21/2019

SHEET TITLE

ENLARGED SITE PLANS

SHEET NUMBER

PHASE III

A1106

PLOT DATE: 2020-03-06 1:42:25 PM

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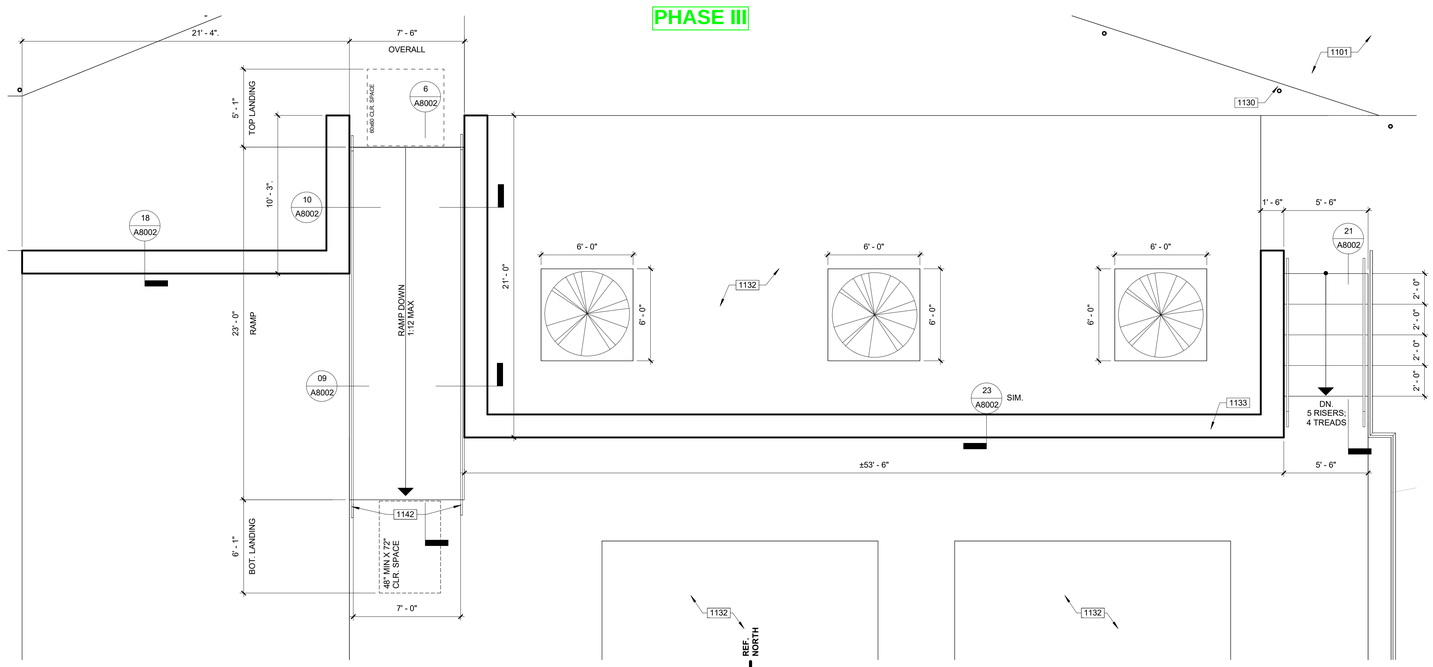
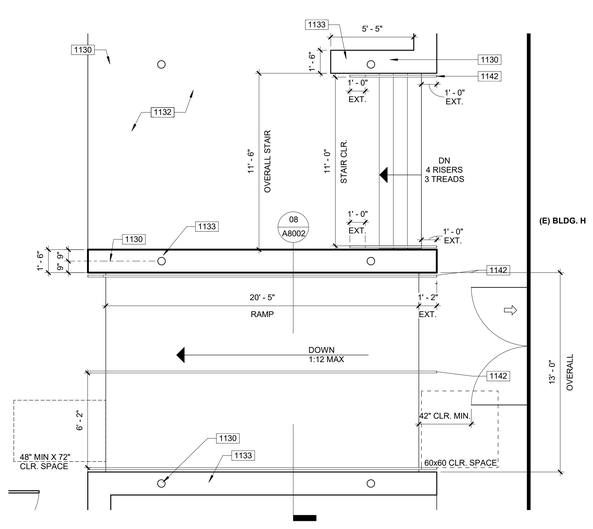
PHASE III



1 RAMP AND STAIR AT PLAZA
1/4" = 1'-0"

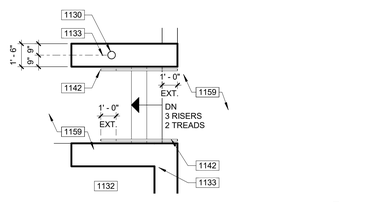
NOTE: SOME HATCH PATTERNS OMITTED FOR CLARITY. REFER TO KEYNOTES FOR ADDITIONAL INFORMATION

PHASE III



2 BUILDING H STAIR AND RAMP
1/4" = 1'-0"

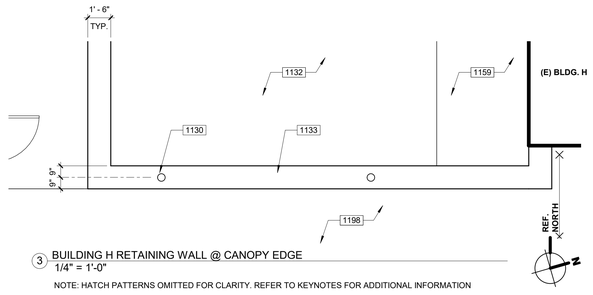
NOTE: HATCH PATTERNS OMITTED FOR CLARITY. REFER TO KEYNOTES FOR ADDITIONAL INFORMATION



4 BUILDING H STAIR
1/4" = 1'-0"

NOTE: SOME HATCH PATTERNS OMITTED FOR CLARITY. REFER TO KEYNOTES FOR ADDITIONAL INFORMATION

PHASE III



3 BUILDING H RETAINING WALL @ CANOPY EDGE
1/4" = 1'-0"

NOTE: HATCH PATTERNS OMITTED FOR CLARITY. REFER TO KEYNOTES FOR ADDITIONAL INFORMATION

PHASE III

KEYNOTES

1101	(E) CONCRETE WALK TO REMAIN
1130	COLUMN PER STRUCTURAL DRAWINGS
1132	STAMPED PATTERN CONCRETE
1133	RETAINING WALL, SEE STRUCTURAL.
1142	HANDRAILS, MAINTAIN 1-1/2" CLEARANCE FOR GRIPABILITY.
1159	CONCRETE WALKWAY PER DETAIL 05/A8000
1198	AC PAVING PER CIVIL

LEGEND

NOTE: ALL SYMBOLS, PATTERS, OR LINETYPES MAY NOT NECCESSARILY OCCUR THIS SHEET

- ASSUMED PROPERTY LINE
- PROPERTY LINE
- CHAIN LINK FENCE 6'-0" HIGH U.O.N., SEE DETAIL 10 / A8001
- ORNAMENTAL FENCE 6'-0" HIGH U.O.N., SEE DETAIL 04 / A8001
- INSERT SKATE DETERRENT. SEE DETAIL
- ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE AT LEAST 48" WIDE, WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAX. SLOPE, EXCEPT LEVEL CHANGES THAT DO NOT EXCEED 2% AND SLOPES IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5%. "PASSING SPACES" AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART. PART OF ACCESSIBLE PATH OF TRAVEL WITH CONTINUOUS GRADIENTS HAVE 60' LEVEL AREAS NOT MORE THAN 400' APART. P.O.T. SHALL BE FREE OF OBSTRUCTIONS OVERHANGING WITHIN 80" ABOVE WALKING SURFACE AND PROJECTING GREATER THAN 4" FROM WALL SURFACES BETWEEN 27" AND 80" ABOVE WALKING SURFACE, CBC 2016 SECTION 11B
  THE ARCHITECT SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEE REMOVED. GATES IN PATH OF TRAVEL SHALL COMPLY WITH EXIT DOOR REQUIREMENTS PER CBC SECTION 11B-404.1
- ACCESSIBLE BUILDING EXIT
- (E) BUILDING TO REMAIN
- NEW BUILDING TO BE CONSTRUCTED AS PART OF DSA APPLICATION NUMBER AND CONTRACT
- 4" THICK CONCRETE WALK W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. MEDIUM BROOM FINISH. SEE DETAIL 6/2A8000 FOR TYPICAL WALK EDGE AT LANDSCAPE AREA.
- AC PAVING. SEE CIVIL DRAWINGS FOR PAVEMENT SECTION.
- CONTROL JOINT AT 6'-0" O.C. U.O.N.PER DETAIL10 / A8000
- EXPANSION JOINT AT 18'-0" O.C. U.O.N PER DETAIL 15 / A8000
- TURF / LANDSCAPE, SEE LANDSCAPE.
- 6" THICK CONCRETE SLAB W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. MEDIUM BROOM FINISH. SEE CIVIL

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BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	htm/cz
CHK'D BY:	rRr/RM
ISSUE DATE:	11/21/2019

SHEET TITLE

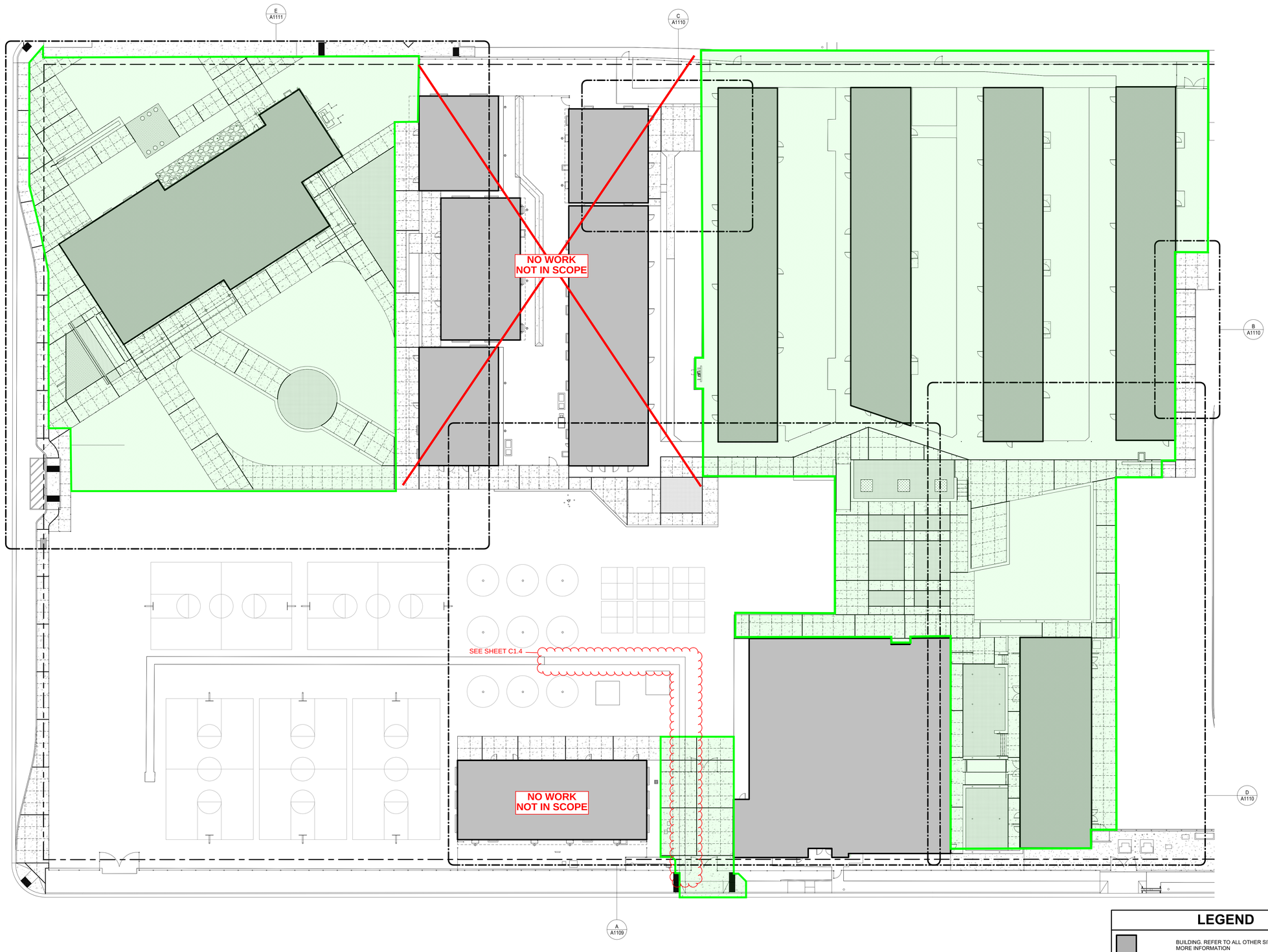
ENLARGED STAIR AND RAMP PLANS

SHEET NUMBER

PHASE III

A1107

PLOT DATE: 2020-03-06 1:42:38 PM C:\Users\cmora.zaragoza\Documents\RE\VT\2018\ATH-118934-BessieOwens\HS_Site 06-28-19_v2018_carlos.zaragoza.rvt



1 OVERALL SCORING PLAN
1" = 20'-0"

LEGEND

- BUILDING. REFER TO ALL OTHER SITE PLANS FOR MORE INFORMATION
- CONCRETE WALK, MEDIUM BROOM FINISH. SEE DETAIL
- CONTROL JOINT AT 6'-0" O.C. U.O.N. SEE DETAIL
- EXPANSION JOINT AT 24'-0" O.C. U.O.N. SEE DETAIL
- STAMPED PATTERN - 4" THICK CONCRETE WALK W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. "ROMAN SLATE", INTEGRAL COLOR

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BESSIE OWENS JR HIGH MODULAR CLASSROOM BUILDINGS

815 EUREKA ST, BAKERSFIELD, CA 93305

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SHEET TITLE

OVERALL SCORING PLAN

SHEET NUMBER

PHASE III

A1108

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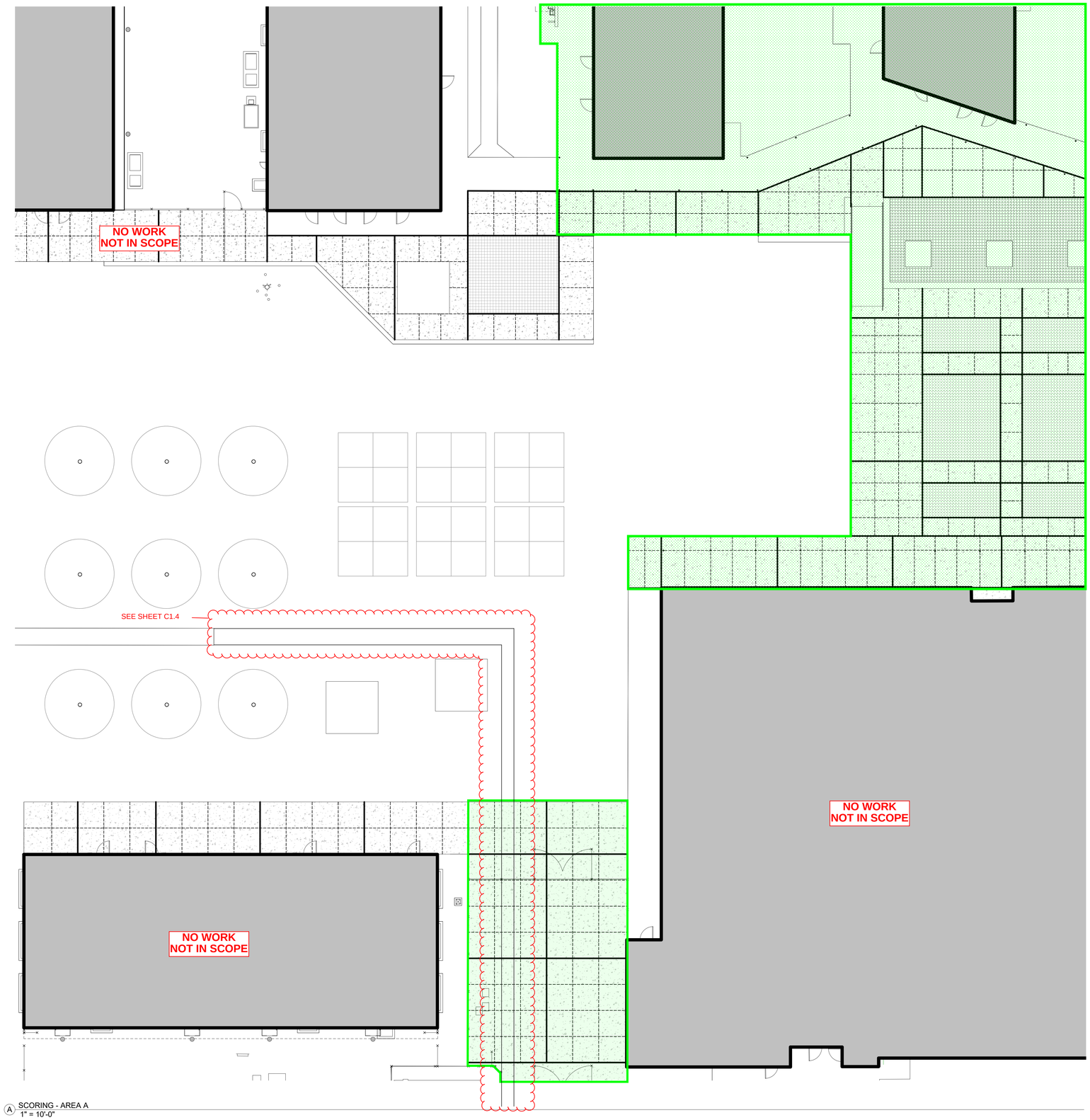

A SCORING - AREA A
1" = 10'-0"

LEGEND

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- CONCRETE WALK, MEDIUM BROOM FINISH. SEE DETAIL
- CONTROL JOINT AT 6'-0" O.C. U.O.N. SEE DETAIL
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PHASE III

A1109

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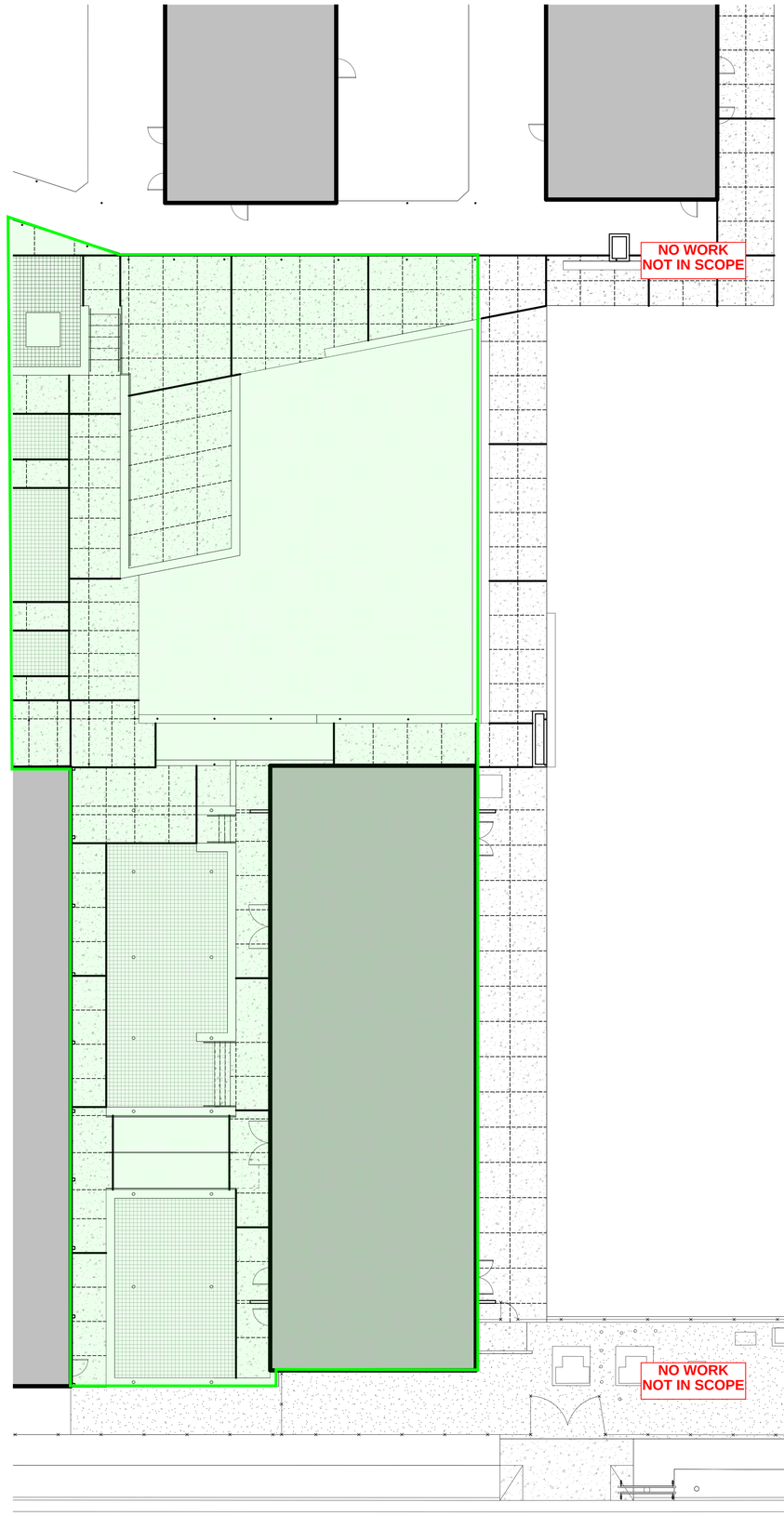
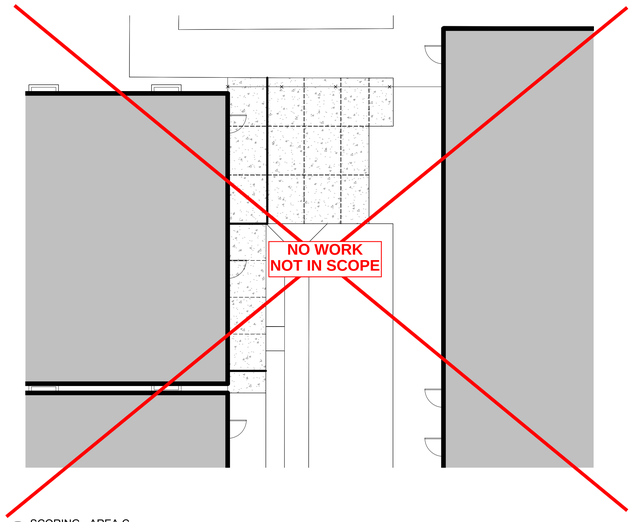
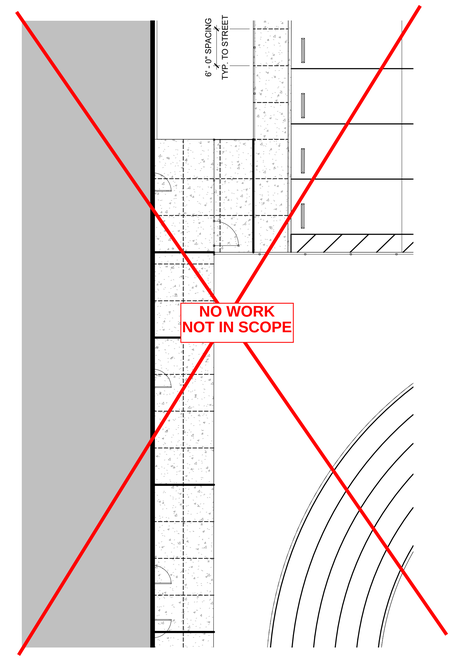


PHASE III

D SCORING - AREA D
1" = 10'-0"



C SCORING - AREA C
1" = 10'-0"



B SCORING - AREA B
1" = 10'-0"

LEGEND

- BUILDING. REFER TO ALL OTHER SITE PLANS FOR MORE INFORMATION
- CONCRETE WALK, MEDIUM BROOM FINISH. SEE DETAIL
- CONTROL JOINT AT 6'-0" O.C. U.O.N. SEE DETAIL
- EXPANSION JOINT AT 24'-0" O.C. U.O.N. SEE DETAIL
- STAMPED PATTERN - 4" THICK CONCRETE WALK W/ # 4 REBAR AT 24" O.C. EA WAY OVER 2" SAND. "ROMAN SLATE", INTEGRAL COLOR

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BESSIE OWENS JR HIGH MODULAR CLASSROOM BUILDINGS

815 EUREKA ST, BAKERSFIELD, CA 93305

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ENLARGED SCORING PLAN

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PHASE III

A1110

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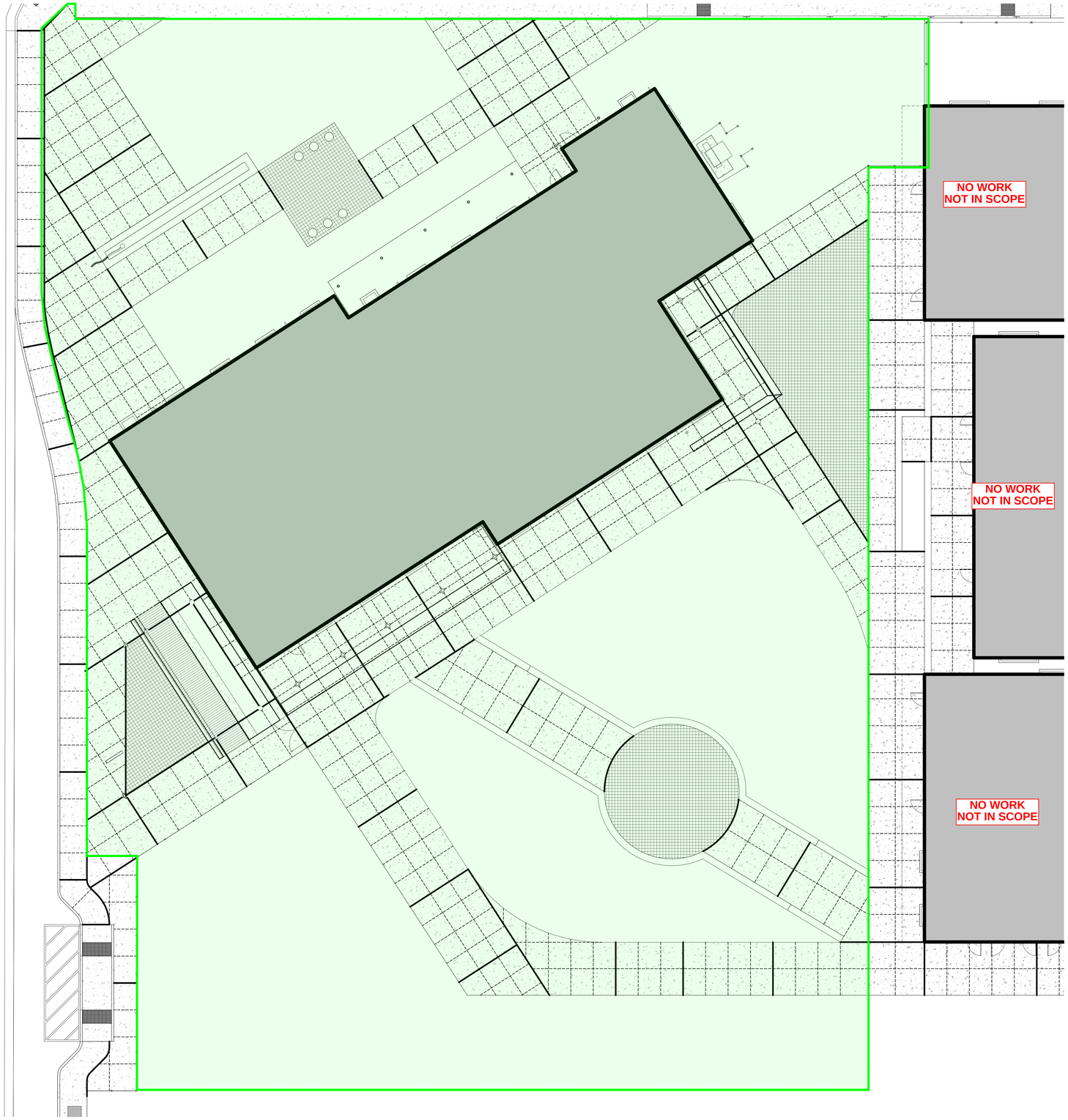

E SCORING - AREA E
1" = 10'-0"

LEGEND

- BUILDING. REFER TO ALL OTHER SITE PLANS FOR MORE INFORMATION
- CONCRETE WALK, MEDIUM BROOM FINISH. SEE DETAIL
- CONTROL JOINT AT 6'-0" O.C. U.O.N. SEE DETAIL
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PHASE III

A1111

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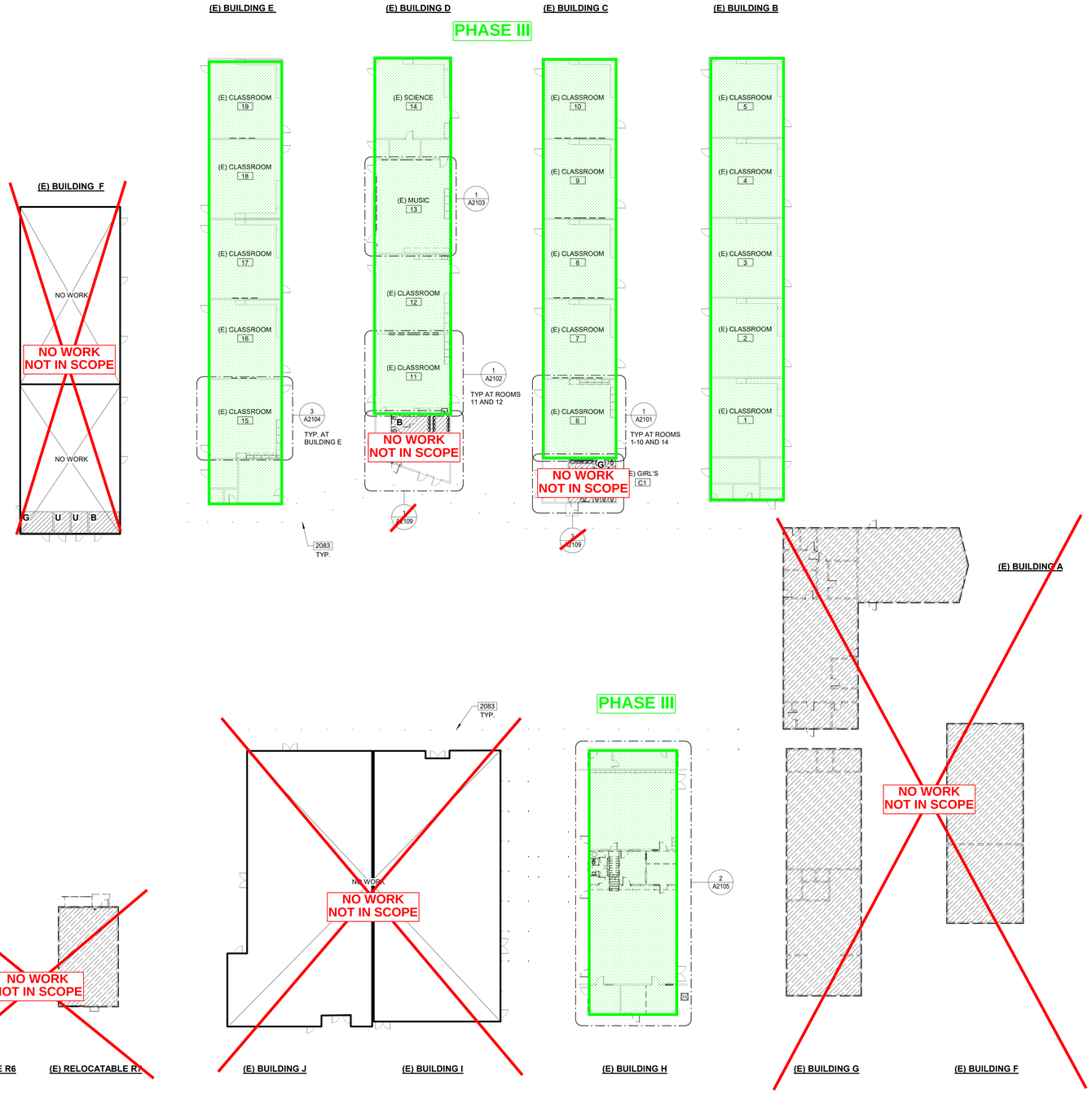

1 FIRST FLOOR PLAN
1" = 20'-0"

2000-DEMOLITION NOTES

1. ALL MATERIAL INDICATED TO BE REMOVED IS TO BE DISPOSED OF OFF SITE IN A LEGAL MANNER, UNLESS INDICATED TO BE SALVAGED OR REINSTALLED.
2. CONTRACTOR SHALL PROTECT PORTIONS OF EXISTING CONSTRUCTION NOT INDICATED TO BE DEMOLISHED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT AND REPAIR OF ITEMS TO REMAIN.
3. REFER TO OTHER PLANS FOR ADDITIONAL DEMOLITION WORK.
4. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DEMOLITION OF MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS.
5. REFER TO FLOOR PLANS FOR PATCHING AND REINSTALLATION OF EXISTING CONSTRUCTION.
6. PARTIAL DEMOLITION SHALL INCLUDE TRIMMING AND CAPPING SYSTEMS THAT ARE TO REMAIN OPERABLE.
7. CONTRACTOR SHALL COORDINATE WITH HAZARDOUS MATERIAL CONSULTANT FOR REMOVAL OF HAZARDOUS MATERIALS.
8. DEMOLITION PLAN IS DIAGRAMMATIC. CONTRACTOR SHALL REMOVE EXTENT REQUIRED FOR THE INSTALLATION OF (N) WORK.

2000 - KEYNOTES DEMO

2083 (E) STEEL COLUMNS TO REMAIN

LEGEND

- REMOVE EXISTING CONSTRUCTION. REFER TO DEMOLITION KEYNOTES FOR ADDITIONAL INFORMATION
- EXISTING BUILDING(S) TO BE REMOVED IN ITS ENTIRETY. CAP UTILITY LINES BELOW GRADE
- EXISTING BUILDING(S) TO REMAIN. REFER TO OVERALL SITE PLAN FOR SCOPE UNDER THIS CONTRACT
- EXISTING ACCESSIBLE STUDENT OR STAFF RESTROOM (U - UNISEX, B - BOYS, G - GIRLS, S - STAFF)

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OVERALL FLOOR DEMOLITION PLAN

SHEET NUMBER

PHASE III

A2000

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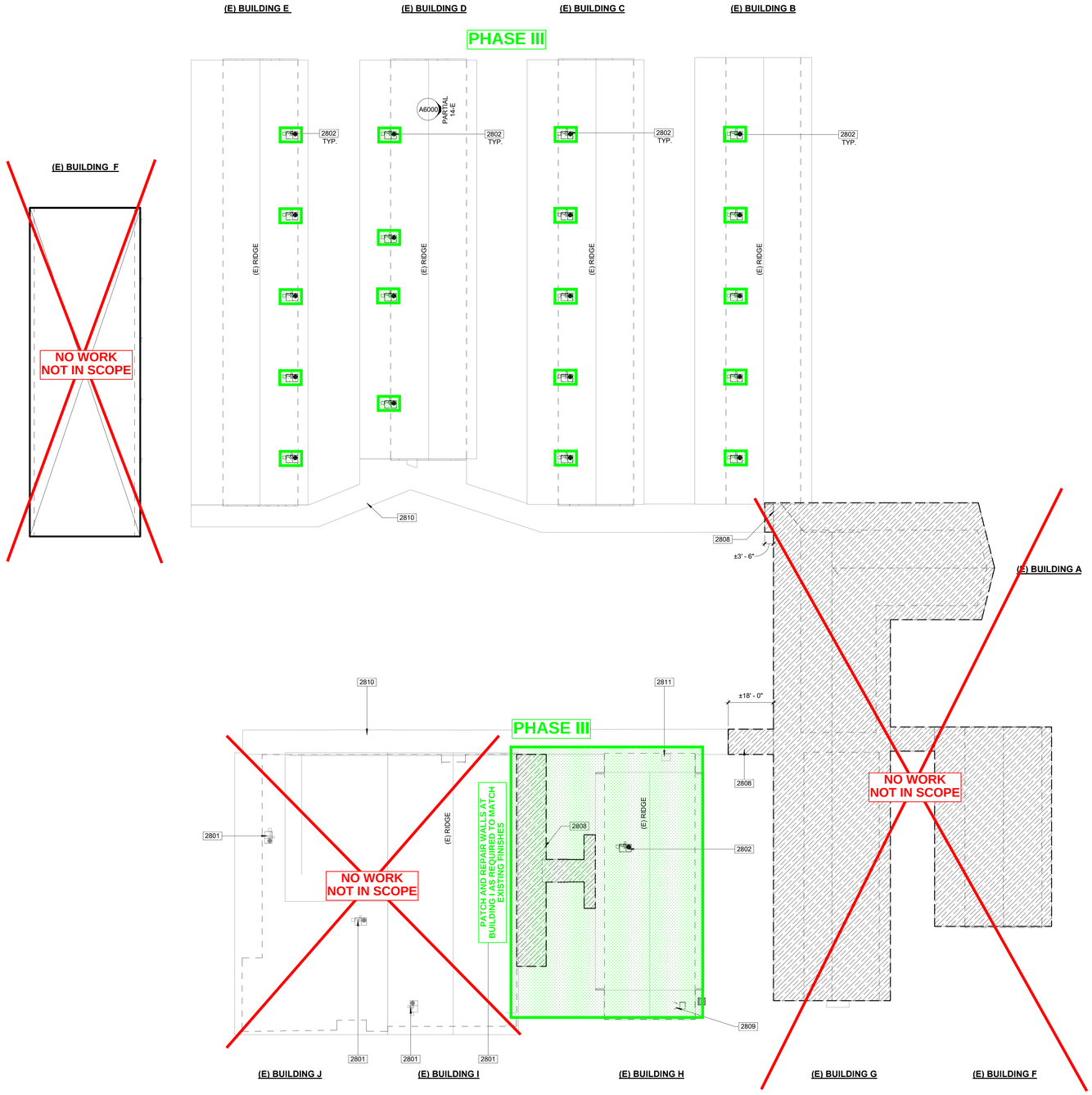

1 DEMOLITION OVERALL ROOF PLAN
1" = 20'-0"

2000-DEMOLITION NOTES

1. ALL MATERIAL INDICATED TO BE REMOVED IS TO BE DISPOSED OF OFF SITE IN A LEGAL MANNER, UNLESS INDICATED TO BE SALVAGED OR REINSTALLED.
2. CONTRACTOR SHALL PROTECT PORTIONS OF EXISTING CONSTRUCTION NOT INDICATED TO BE DEMOLISHED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT AND REPAIR OF ITEMS TO REMAIN.
3. REFER TO OTHER PLANS FOR ADDITIONAL DEMOLITION WORK.
4. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DEMOLITION OF MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS.
5. REFER TO FLOOR PLANS FOR PATCHING AND REINSTALLATION OF EXISTING CONSTRUCTION.
6. PARTIAL DEMOLITION SHALL INCLUDE TRIMMING AND CAPPING SYSTEMS THAT ARE TO REMAIN OPERABLE.
7. CONTRACTOR SHALL COORDINATE WITH HAZARDOUS MATERIAL CONSULTANT FOR REMOVAL OF HAZARDOUS MATERIALS.
8. DEMOLITION PLAN IS DIAGRAMMATIC. CONTRACTOR SHALL REMOVE EXTENT REQUIRED FOR THE INSTALLATION OF (N) WORK.

KEYNOTES

2801	HVAC UNIT TO REMAIN.
2802	REMOVE HVAC UNIT. SEE MECHANICAL
2808	REMOVE EXISTING ROOF AND ROOF STRUCTURE ENTIRELY. PATCH AND REPAIR ADJACENT ROOF ASSEMBLY AS REQUIRED
2809	REMOVE EXISTING ROOF EXHAUST ENTIRELY. PATCH AND REPAIR ADJACENT ROOF ASSEMBLY TO MATCH EXISTING
2810	EXISTING COVERED WALKWAY TO REMAIN, PROTECT FROM DAMAGE DURING DEMOLITION AND PATCH ROOF ASSEMBLY AS REQUIRED
2811	EXISTING ELECTRICAL UNIT TO REMAIN

LEGEND

(E) ROOFING TO REMAIN. CLASS A, TYP.

REMOVE EXISTING ROOF STRUCTURE/COVERED CANOPY, CONDUITS, DOWNSPOUTS, GUTTERS AND ASSOCIATED HVAC SYSTEMS IN ITS ENTIRETY. SEE DEMOLITION FLOOR PLAN FOR DEMOLITION EXTENT.
PATCH AND REPAIR ADJACENT BUILDING AND CANOPY FINISHES AS REQUIRED TO MATCH ADJACENT STRUCTURES

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BAKERSFIELD CITY SCHOOL DISTRICT

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Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

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OVERALL ROOF DEMOLITION PLAN

SHEET NUMBER

PHASE III

A2001

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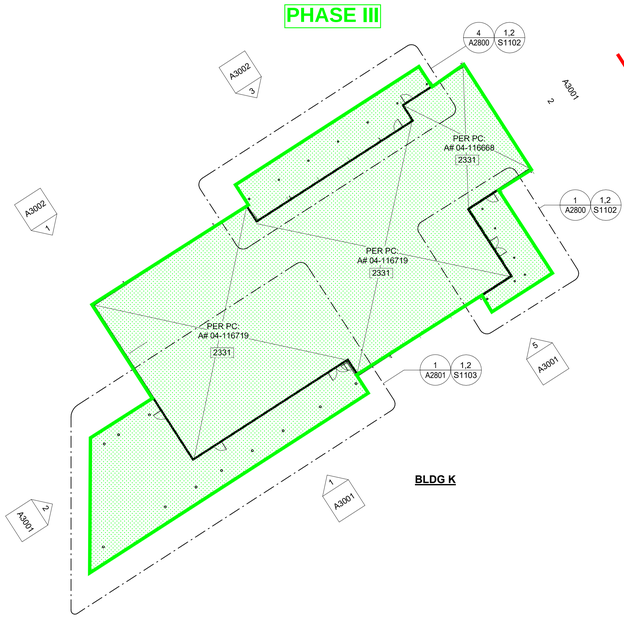
2300- KEYNOTES

2331	ROOM SHALL BE PROVIDED WITH ASSISTIVE LISTENING SYSTEMS PER DETAIL 26/A8500

GENERAL NOTES

1. REFER TO DEMOLITION PLAN FOR EXISTING CONSTRUCTION TO BE REMOVED.
2. REFER TO SHEET A9000 FOR FINISH SCHEDULE.
3. REFER TO INTERIOR ELEVATION FOR ALL WALL MOUNTED ITEMS AND CABINET TYPES.
4. REFER TO STRUCTURAL DRAWINGS FOR FRAMING OF OPENINGS.
5. WHERE STRUCTURAL DRAWINGS INDICATE PLYWOOD SHEAR WALL OVER STUD FRAMING, PLYWOOD IS TO EXTEND OVER ENTIRE SURFACE, REGARDLESS OF EXTENT SHOWN ON THE STRUCTURAL DRAWINGS, TO ELIMINATE OFFSETS IN SUBSTRATE FOR FINISHES.
6. PROVIDE SOLID 2x FIRE STOP BLOCKING IN ALL STUD WALL FRAMED CAVITIES, AT INTERSECTION OF CEILING, FLOORS, AND MAXIMUM 10 FT. INTERVALS.
7. SEE OTHER DISCIPLINES FOR ADDITIONAL SCOPE OF WORK NOT SHOWN IN THE ARCHITECTURAL DRAWINGS
8. SEE ENLARGED PLANS FOR ADDITIONAL INFORMATION.
9. PROVIDE ASSISTIVE LISTENING DEVICE SIGNAGE AT ALL MODULAR BUILDING CLASSROOMS, REFER TO DETAIL 25/3A8500 FOR SIGNAGE REQUIREMENTS.
10. GENERAL CONTRACTOR TO PROVIDE VISUAL DISPLAY UNITS AT ALL MODULAR CLASSROOMS PER PC DRAWING LOCATIONS.

PHASE III



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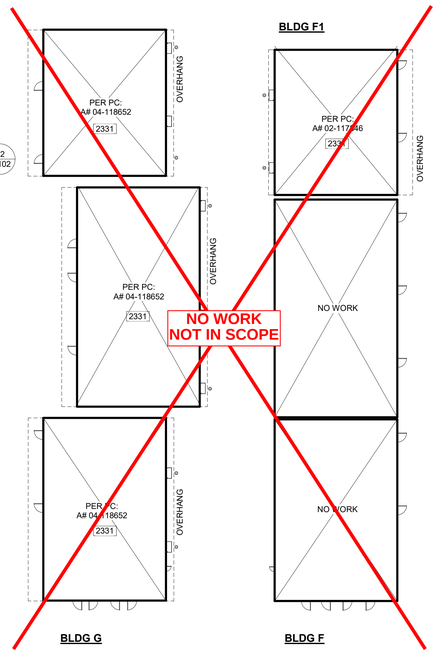

BLDG G

BLDG F

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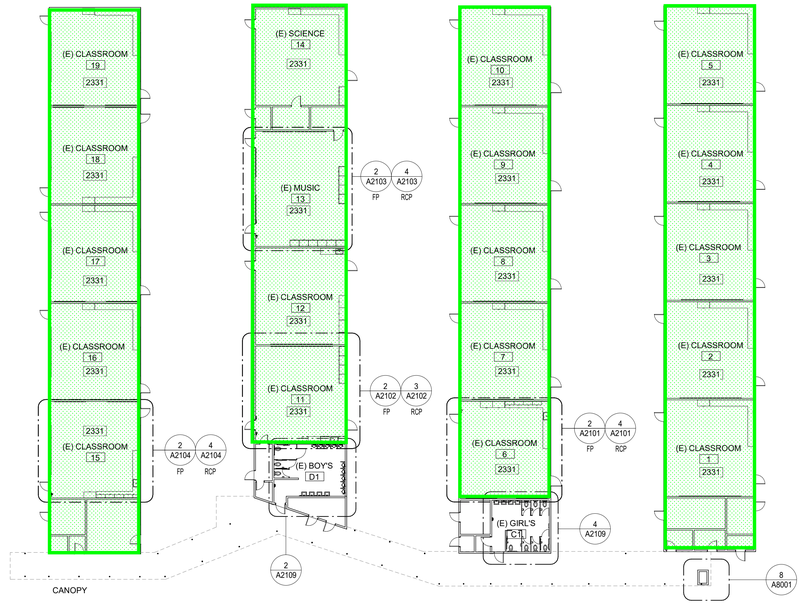

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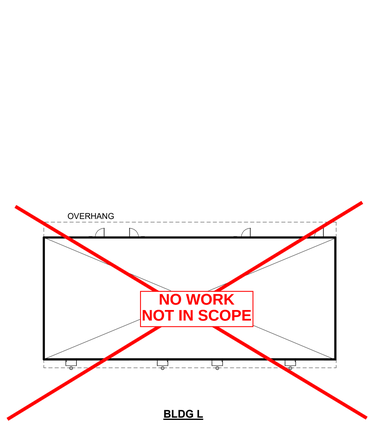

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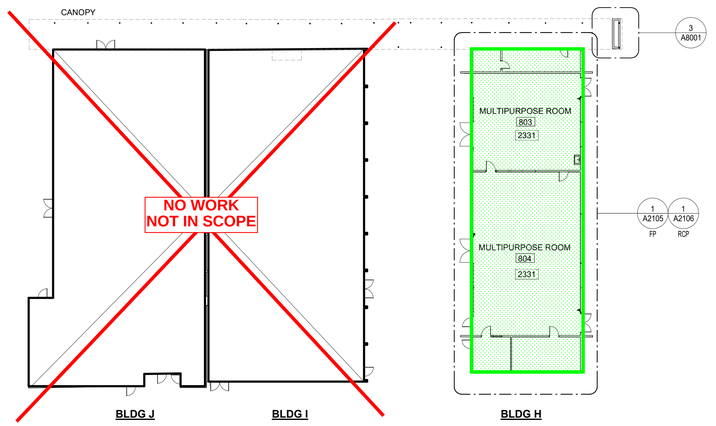
PHASE III



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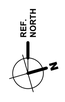
1 OVERALL FLOOR PLANS
1" = 20'-0"



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SHEET TITLE

OVERALL FLOOR PLAN - PROPOSED

SHEET NUMBER

PHASE III

A2100

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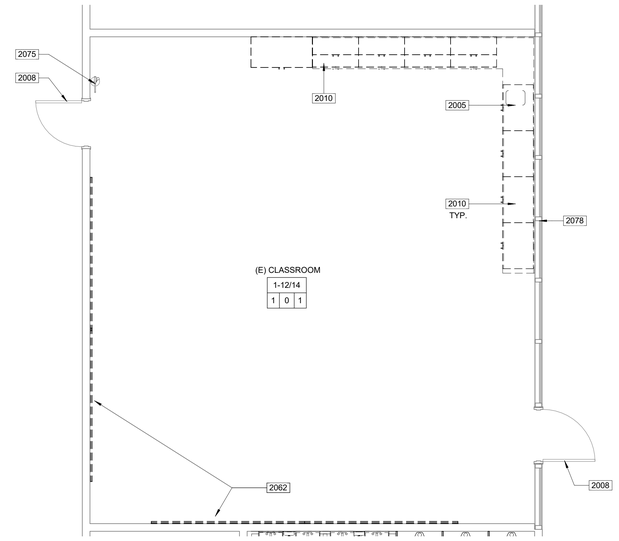
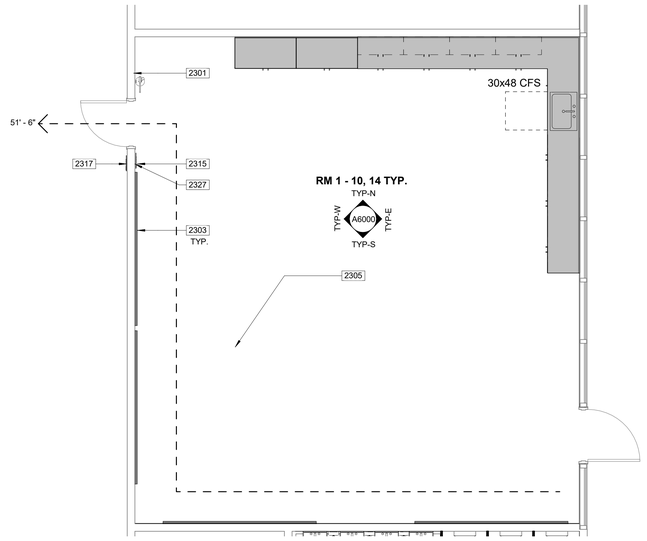
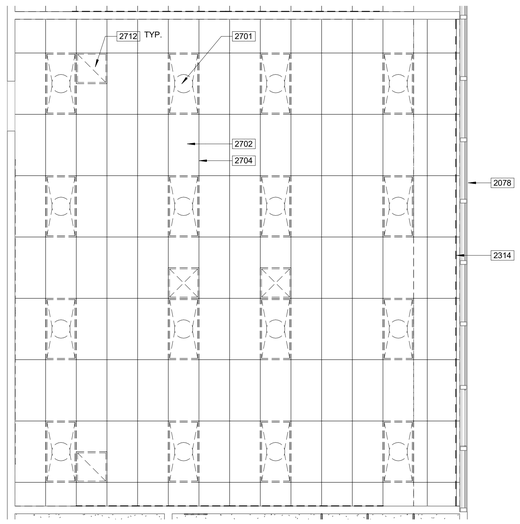


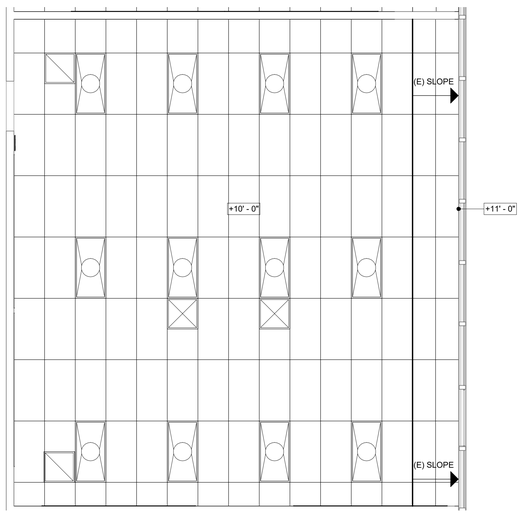
1 FLOOR PLAN DEMOLITION
1/4" = 1'-0"



2 PROPOSED FLOOR PLAN
1/4" = 1'-0"



3 REFLECTED CEILING PLAN DEMOLITION
1/4" = 1'-0"



4 PROPOSED REFLECTED CEILING PLAN
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO DEMOLITION PLAN FOR EXISTING CONSTRUCTION TO BE REMOVED.
2. REFER TO SHEET A9000 FOR FINISH SCHEDULE.
3. REFER TO INTERIOR ELEVATION FOR ALL WALL MOUNTED ITEMS AND CABINET TYPES.
4. REFER TO STRUCTURAL DRAWINGS FOR FRAMING OF OPENINGS.
5. WHERE STRUCTURAL DRAWINGS INDICATE PLYWOOD SHEAR WALL OVER STUD FRAMING, PLYWOOD IS TO EXTEND OVER ENTIRE SURFACE, REGARDLESS OF EXTENT SHOWN ON THE STRUCTURAL DRAWINGS, TO ELIMINATE OFFSETS IN SUBSTRATE FOR FINISHES.
6. PROVIDE SOLID 2x FIRE STOP BLOCKING IN ALL STUD WALL FRAMED CAVITIES, AT INTERSECTION OF CEILING, FLOORS, AND MAXIMUM 10 FT. INTERVALS.
7. SEE OTHER DISCIPLINES FOR ADDITIONAL SCOPE OF WORK NOT SHOWN IN THE ARCHITECTURAL DRAWINGS
8. SEE ENLARGED PLANS FOR ADDITIONAL INFORMATION.
9. PROVIDE ASSISTIVE LISTENING DEVICE SIGNAGE AT ALL MODULAR BUILDING CLASSROOMS, REFER TO DETAIL 25/3A8500 FOR SIGNAGE REQUIREMENTS.
10. GENERAL CONTRACTOR TO PROVIDE VISUAL DISPLAY UNITS AT ALL MODULAR CLASSROOMS PER PC DRAWING LOCATIONS.

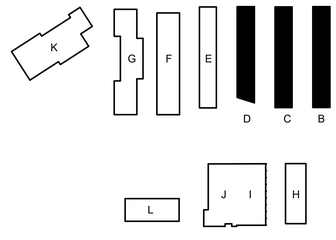
KEYNOTES

2005	REMOVE AND DISPOSE SINK
2008	EXISTING DOOR TO REMAIN
2010	EXISTING CASEWORK AND COUNTERTOP TO BE REMOVED
2062	REMOVE AND DISPOSE MARKER BOARDS
2075	EXISTING FIRE EXTINGUSHER TO REMAIN
2078	EXISTING WINDOWS TO REMAIN
2301	TACK WALL SURFACE INSTALLED OVER (E)GYPSUM WALL BOARDS. SEE INTERIOR ELEVATIONS FOR EXTENT.
2303	4X8 MARKERBOARD.
2305	INSTALL NEW FLOORING, PER FINISH SCHEDULE
2314	REMOVE AND DISPOSE OF EXISTING CURTAIN AND TRACK
2315	VERIFY (E) OR PROVIDE TACTILE EXIT SIGNAGE, MOUNTING PER DETAIL 8/A8500
2317	VERIFY (E) OR PROVIDE TACTILE CLASSROOM SIGNAGE PER DETAIL 8/A8500
2327	ASSISTIVE LEARNING DEVICE SIGNAGE PER DETAIL 26/A8500
2701	REMOVE AND DISPOSE LIGHT FIXTURES.
2702	REMOVE AND REPLACE EACH (E)T-BAR CEILING TILE.
2704	T-BAR CEILING GRID TO REMAIN; PREPARE FOR NEW TILES
2712	REMOVE MECHANICAL GRILLES

LEGEND

- REMOVE (E) CONSTRUCTION, REFER TO REMOVAL KEYNOTES FOR ADDITIONAL INFORMATION
- (E) 2x4 SUSPENDED ACOUSTICAL CEILING SYSTEM TO REMAIN. REPLACE (E) CEILING TILES THROUGHOUT
- AIR TERMINAL . SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- LIGHT FIXTURES . SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- CEILING SLOPE ARROW
- +10' - 0" — CEILING HEIGHT DESIGNATION
- CLEAR FLOOR SPACE AS SHOWN
- NEW CASEWORK. SEE INTERIOR ELEVATIONS FOR DIMENSIONS
- xx'-xx" — EXIT DISCHARGE, TOTAL DISTANCE AT LEADER HEAD

KEY PLAN



CODE ANALYSIS

Building B, C, D Occupancy

Number	Name	Occupancy	Area	Occupant Load Factor	Occupant Count	Required # of Exits
1	(E) CLASSROOM	E	914 SF	20	46	1
2	(E) CLASSROOM	E	914 SF	20	46	1
3	(E) CLASSROOM	E	914 SF	20	46	1
4	(E) CLASSROOM	E	914 SF	20	46	1
5	(E) CLASSROOM	E	914 SF	20	46	1
6	(E) CLASSROOM	E	925 SF	20	47	1
7	(E) CLASSROOM	E	914 SF	20	46	1
8	(E) CLASSROOM	E	914 SF	20	46	1
9	(E) CLASSROOM	E	914 SF	20	46	1
10	(E) CLASSROOM	E	918 SF	20	46	1
14	(E) SCIENCE	E	926 SF	20	47	1

DEMOLITION SCHEDULE - CLASSROOMS

FLOOR/BASE		WALL		CEILING	
0	EXISTING FLOOR & BASE TO REMAIN	0	EXISTING WALL FRAMING/FINISH TO REMAIN, PREP WALL FOR NEW FINISHES PER SCHEDULE. REMOVE AND RELOCATE EXISTING ACCESSORIES, RACEWAYS, CONDUIT TO ACCOMMODATE NEW FINISHES	0	EXISTING CEILING TO REMAIN
1	REMOVE EXISTING FLOOR AND BASE IN ITS ENTIRETY. PREP FLOOR TO RECEIVE NEW FINISH PER SCHEDULE. SEE ADDITIVE ALTERNATE NO. 1	A		1	REMOVE EXISTING CEILING TILES, AND PREPARE EXISTING GRID FOR NEW TILES
2		B		2	
3		C		3	

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	08/19/2019

SHEET TITLE

CLASSROOM FLOOR AND CEILING PLANS - RM 1-10 & 14

SHEET NUMBER

PHASE III

A2101

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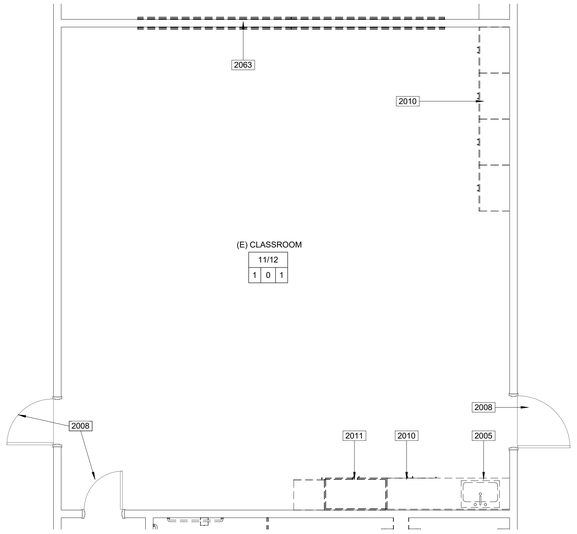
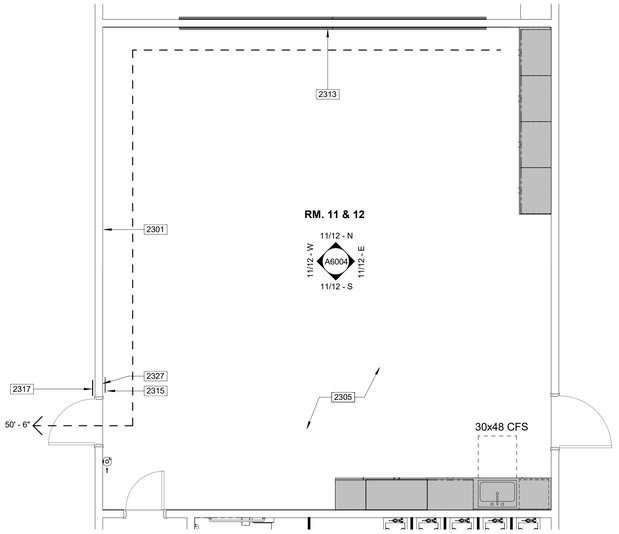


1 FLOOR PLAN DEMOLITION
1/4" = 1'-0"



2 PROPOSED FLOOR PLAN
1/4" = 1'-0"

3 REFLECTED CEILING PLAN DEMOLITION
1/4" = 1'-0"

4 PROPOSED REFLECTED CEILING PLAN
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO DEMOLITION PLAN FOR EXISTING CONSTRUCTION TO BE REMOVED.
2. REFER TO SHEET A9000 FOR FINISH SCHEDULE.
3. REFER TO INTERIOR ELEVATION FOR ALL WALL MOUNTED ITEMS AND CABINET TYPES.
4. REFER TO STRUCTURAL DRAWINGS FOR FRAMING OF OPENINGS.
5. WHERE STRUCTURAL DRAWINGS INDICATE PLYWOOD SHEAR WALL OVER STUD FRAMING, PLYWOOD IS TO EXTEND OVER ENTIRE SURFACE, REGARDLESS OF EXTENT SHOWN ON THE STRUCTURAL DRAWINGS, TO ELIMINATE OFFSETS IN SUBSTRATE FOR FINISHES.
6. PROVIDE SOLID 2x FIRE STOP BLOCKING IN ALL STUD WALL FRAMED CAVITIES, AT INTERSECTION OF CEILING, FLOORS, AND MAXIMUM 10 FT. INTERVALS.
7. SEE OTHER DISCIPLINES FOR ADDITIONAL SCOPE OF WORK NOT SHOWN IN THE ARCHITECTURAL DRAWINGS
8. SEE ENLARGED PLANS FOR ADDITIONAL INFORMATION.
9. PROVIDE ASSISTIVE LISTENING DEVICE SIGNAGE AT ALL MODULAR BUILDING CLASSROOMS, REFER TO DETAIL 25/3A8500 FOR SIGNAGE REQUIREMENTS.
10. GENERAL CONTRACTOR TO PROVIDE VISUAL DISPLAY UNITS AT ALL MODULAR CLASSROOMS PER PC DRAWING LOCATIONS.

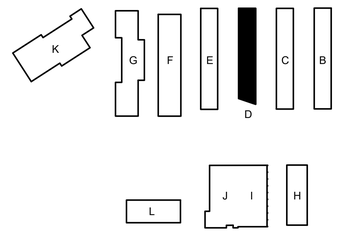
KEYNOTES

2005	REMOVE AND DISPOSE SINK
2008	EXISTING DOOR TO REMAIN
2010	EXISTING CASEWORK AND COUNTERTOP TO BE REMOVED
2011	EXISTING TALL CASEWORK TO BE REMOVED
2063	REMOVE SMARTBOARD AND RETURN TO OWNER
2078	EXISTING WINDOWS TO REMAIN
2301	TACK WALL SURFACE INSTALLED OVER (E)GYPSUM WALL BOARDS. SEE INTERIOR ELEVATIONS FOR EXTENT.
2305	INSTALL NEW FLOORING, PER FINISH SCHEDULE
2313	4'x8' VISUAL DISPLAY UNIT . COORDINATE LOCATION WITH LOCATION OF FUTURE LCD SCREEN (NOT IN CONSTRUCTION CONTRACT)
2315	VERIFY (E) OR PROVIDE TACTILE EXIT SIGNAGE, MOUNTING PER DETAIL 8/A8500
2317	VERIFY (E) OR PROVIDE TACTILE CLASSROOM SIGNAGE PER DETAIL 8/A8500
2327	ASSISTIVE LEARNING DEVICE SIGNAGE PER DETAIL 26/A8500
2701	REMOVE AND DISPOSE LIGHT FIXTURES.
2702	REMOVE AND REPLACE EACH (E)T-BAR CEILING TILE.
2704	T-BAR CEILING GRID TO REMAIN; PREPARE FOR NEW TILES
2712	REMOVE MECHANICAL GRILLES

LEGEND

- REMOVE (E) CONSTRUCTION, REFER TO REMOVAL KEYNOTES FOR ADDITIONAL INFORMATION
- (E) 2x4 SUSPENDED ACOUSTICAL CEILING SYSTEM TO REMAIN. REPLACE (E) CEILING TILES THROUGHOUT
- AIR TERMINAL . SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- LIGHT FIXTURES . SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- CEILING SLOPE ARROW
- +10' - 0" CEILING HEIGHT DESIGNATION
- CLEAR FLOOR SPACE AS SHOWN
- NEW CASEWORK, SEE INTERIOR ELEVATIONS FOR DIMENSIONS
- xx'-xx" EXIT DISCHARGE, TOTAL DISTANCE AT LEADER HEAD

KEY PLAN



CODE ANALYSIS

Building D (11 & 12) Occcupancy

Number	Name	Occupancy	Area	Occupant Load Factor	Occupant Count	Required # of Exits
11	(E) CLASSROOM	E	921 SF	20	47	1
12	(E) CLASSROOM	E	921 SF	20	47	1

DEMOLITION SCHEDULE - CLASSROOMS

	FLOOR/BASE		WALL		CEILING
0	EXISTING FLOOR & BASE TO REMAIN	0	EXISTING WALL FRAMING/FINISH TO REMAIN. PREP WALL FOR NEW FINISHES PER SCHEDULE. REMOVE AND RELOCATE EXISTING ACCESSORIES, RACEWAYS, CONDUIT TO ACCOMMODATE NEW FINISHES	0	EXISTING CEILING TO REMAIN
1	REMOVE EXISTING FLOOR AND BASE IN ITS ENTIRETY. PREP FLOOR TO RECEIVE NEW FINISH PER SCHEDULE. SEE ADDITIVE ALTERNATE NO. 1	A		1	REMOVE EXISTING CEILING TILES, AND PREPARE EXISTING GRID FOR NEW TILES
2		B		2	
3		C		3	

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BAKERSFIELD CITY SCHOOL DISTRICT
"Where The Child Comes First"

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PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	08/19/2019

SHEET TITLE

CLASSROOM FLOOR AND CEILING PLANS - RM 11 & 12

SHEET NUMBER

PHASE III

A2102

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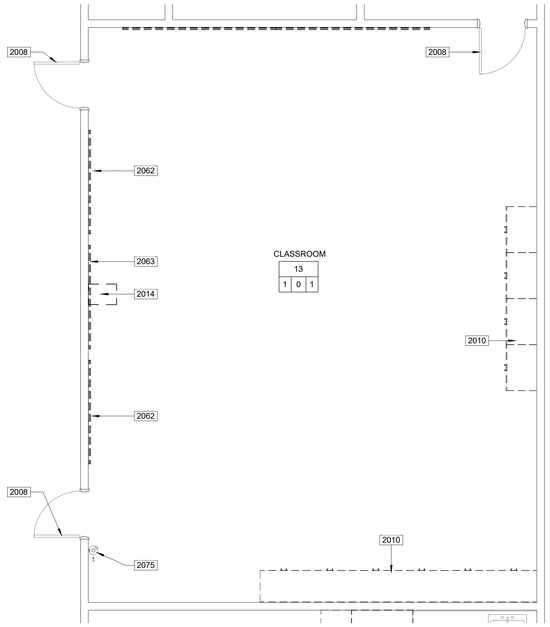
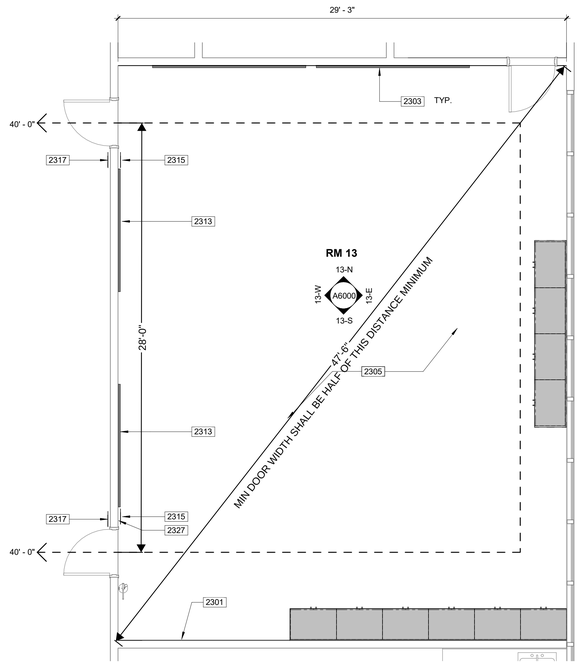


1 FLOOR PLAN DEMOLITION
1/4" = 1'-0"



2 PROPOSED FLOOR PLAN
1/4" = 1'-0"

3 REFLECTED CEILING PLAN DEMOLITION
1/4" = 1'-0"

4 PROPOSED REFLECTED CEILING PLAN
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO DEMOLITION PLAN FOR EXISTING CONSTRUCTION TO BE REMOVED.
2. REFER TO SHEET A9000 FOR FINISH SCHEDULE.
3. REFER TO INTERIOR ELEVATION FOR ALL WALL MOUNTED ITEMS AND CABINET TYPES.
4. REFER TO STRUCTURAL DRAWINGS FOR FRAMING OF OPENINGS.
5. WHERE STRUCTURAL DRAWINGS INDICATE PLYWOOD SHEAR WALL OVER STUD FRAMING, PLYWOOD IS TO EXTEND OVER ENTIRE SURFACE, REGARDLESS OF EXTENT SHOWN ON THE STRUCTURAL DRAWINGS, TO ELIMINATE OFFSETS IN SUBSTRATE FOR FINISHES.
6. PROVIDE SOLID 2x FIRE STOP BLOCKING IN ALL STUD WALL FRAMED CAVITIES, AT INTERSECTION OF CEILING, FLOORS, AND MAXIMUM 10 FT. INTERVALS.
7. SEE OTHER DISCIPLINES FOR ADDITIONAL SCOPE OF WORK NOT SHOWN IN THE ARCHITECTURAL DRAWINGS
8. SEE ENLARGED PLANS FOR ADDITIONAL INFORMATION.
9. PROVIDE ASSISTIVE LISTENING DEVICE SIGNAGE AT ALL MODULAR BUILDING CLASSROOMS, REFER TO DETAIL 25/3A8500 FOR SIGNAGE REQUIREMENTS.
10. GENERAL CONTRACTOR TO PROVIDE VISUAL DISPLAY UNITS AT ALL MODULAR CLASSROOMS PER PC DRAWING LOCATIONS.

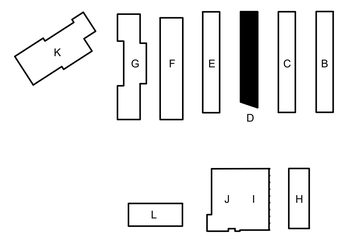
KEYNOTES

2008	EXISTING DOOR TO REMAIN
2010	EXISTING CASEWORK AND COUNTERTOP TO BE REMOVED
2014	REMOVE WALL MOUNTED PROJECTOR AND RETURN TO OWNER
2062	REMOVE AND DISPOSE MARKER BOARDS
2063	REMOVE SMARTBOARD AND RETURN TO OWNER
2075	EXISTING FIRE EXTINGUSHER TO REMAIN
2301	TACK WALL SURFACE INSTALLED OVER (E)GYPSUM WALL BOARDS. SEE INTERIOR ELEVATIONS FOR EXTENT.
2303	4X8 MARKERBOARD.
2305	INSTALL NEW FLOORING, PER FINISH SCHEDULE
2313	4'x8' VISUAL DISPLAY UNIT. COORDINATE LOCATION WITH LOCATION OF FUTURE LCD SCREEN (NOT IN CONSTRUCTION CONTRACT)
2314	REMOVE AND DISPOSE OF EXISTING CURTAIN AND TRACK
2315	VERIFY (E) OR PROVIDE TACTILE EXIT SIGNAGE, MOUNTING PER DETAIL 8/A8500
2317	VERIFY (E) OR PROVIDE TACTILE CLASSROOM SIGNAGE PER DETAIL 8/A8500
2327	ASSISTIVE LEARNING DEVICE SIGNAGE PER DETAIL 26/A8500
2701	REMOVE AND DISPOSE LIGHT FIXTURES.
2704	T-BAR CEILING GRID TO REMAIN, PREPARE FOR NEW TILES
2712	REMOVE MECHANICAL GRILLES

LEGEND

- REMOVE (E) CONSTRUCTION, REFER TO REMOVAL KEYNOTES FOR ADDITIONAL INFORMATION
- (E) 2x4 SUSPENDED ACOUSTICAL CEILING SYSTEM TO REMAIN. REPLACE (E) CEILING TILES THROUGHOUT
- AIR TERMINAL . SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- LIGHT FIXTURES . SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- CEILING SLOPE ARROW
- +10' - 0" CEILING HEIGHT DESIGNATION
- CLEAR FLOOR SPACE AS SHOWN
- NEW CASEWORK. SEE INTERIOR ELEVATIONS FOR DIMENSIONS
- xx'-xx" EXIT DISCHARGE, TOTAL DISTANCE AT LEADER HEAD

KEY PLAN



CODE ANALYSIS

Building D (13) Occcupancy

Number	Name	Occupancy	Area	Occupant Load Factor	Occupant Count	Required # of Exits
13	(E) MUSIC	E	1097 SF	20	55	2

DEMOLITION SCHEDULE - CLASSROOMS

FLOOR/BASE		WALL		CEILING	
0	EXISTING FLOOR & BASE TO REMAIN	0	EXISTING WALL FRAMING/FINISH TO REMAIN. PREP WALL FOR NEW FINISHES PER SCHEDULE. REMOVE AND RELOCATE EXISTING ACCESSORIES, RACEWAYS, CONDUIT TO ACCOMMODATE NEW FINISHES	0	EXISTING CEILING TO REMAIN
1	REMOVE EXISTING FLOOR AND BASE IN ITS ENTIRETY. PREP FLOOR TO RECEIVE NEW FINISH PER SCHEDULE. SEE ADDITIVE ALTERNATE NO. 1	A		1	REMOVE EXISTING CEILING TILES, AND PREPARE EXISTING GRID FOR NEW TILES
2		B		2	
3		C		3	

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BAKERSFIELD CITY SCHOOL DISTRICT

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PROJECT NO:	118934
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CHK'D BY:	Checker
ISSUE DATE:	08/19/2019

SHEET TITLE

CLASSROOM FLOOR AND CEILING PLANS - RM 13

SHEET NUMBER

PHASE III

A2103

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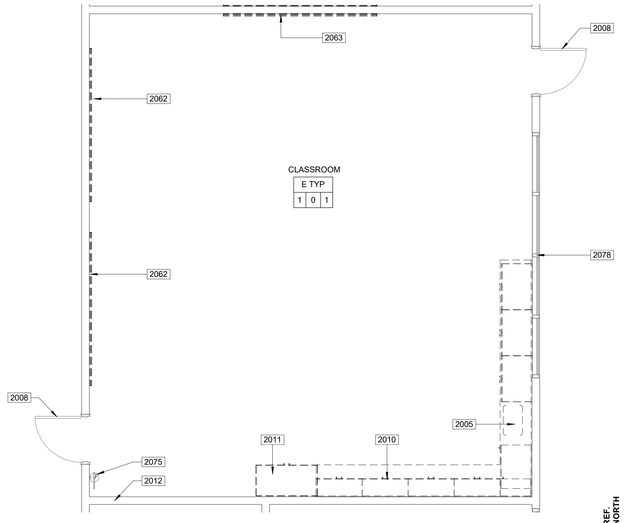
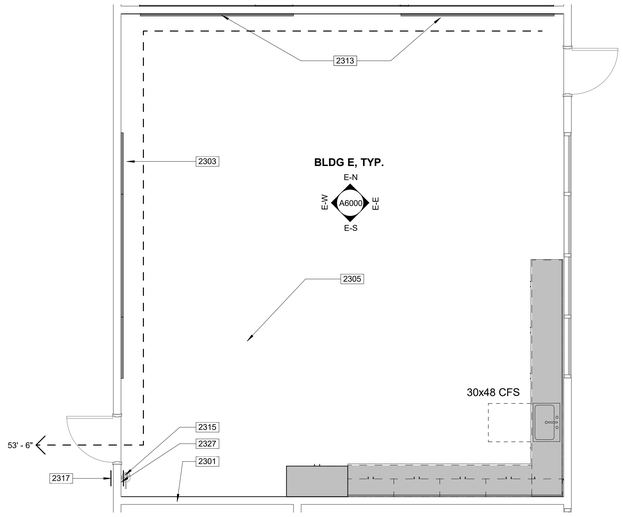
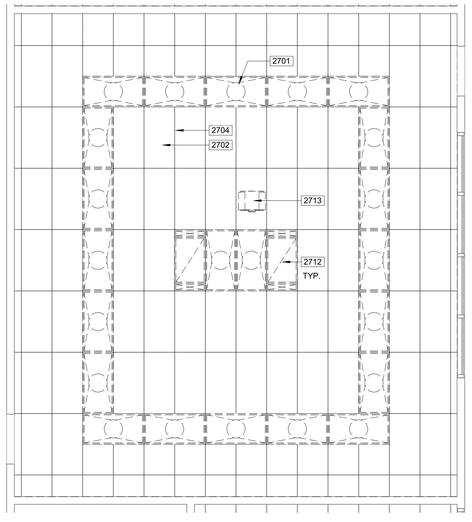


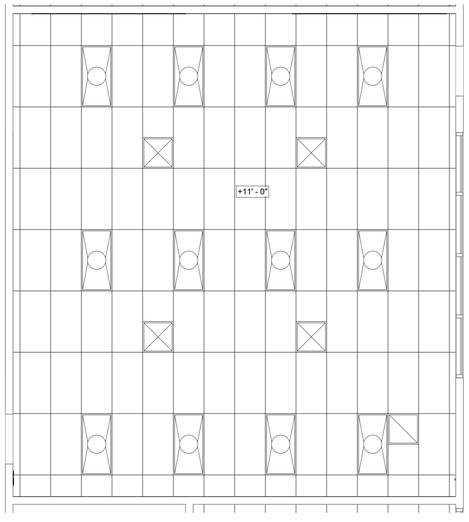
3 FLOOR PLAN DEMOLITION
1/4" = 1'-0"



4 PROPOSED FLOOR PLAN
1/4" = 1'-0"



1 REFLECTED CEILING PLAN DEMOLITION
1/4" = 1'-0"



2 PROPOSED REFLECTED CEILING PLAN
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GENERAL NOTES

1. REFER TO DEMOLITION PLAN FOR EXISTING CONSTRUCTION TO BE REMOVED.
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10. GENERAL CONTRACTOR TO PROVIDE VISUAL DISPLAY UNITS AT ALL MODULAR CLASSROOMS PER PC DRAWING LOCATIONS.

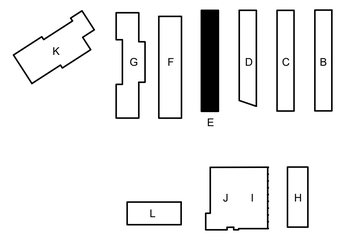
KEYNOTES

2005	REMOVE AND DISPOSE SINK
2008	EXISTING DOOR TO REMAIN
2010	EXISTING CASEWORK AND COUNTERTOP TO BE REMOVED
2011	EXISTING TALL CASEWORK TO BE REMOVED
2012	REMOVE AND DISPOSE TACKBOARD AT ALL EXISTING WALLS
2062	REMOVE AND DISPOSE MARKER BOARDS
2063	REMOVE SMARTBOARD AND RETURN TO OWNER
2075	EXISTING FIRE EXTINGUSHER TO REMAIN
2078	EXISTING WINDOWS TO REMAIN
2301	TACK WALL SURFACE INSTALLED OVER (E)GYPSUM WALL BOARDS. SEE INTERIOR ELEVATIONS FOR EXTENT.
2303	4X8 MARKERBOARD.
2305	INSTALL NEW FLOORING, PER FINISH SCHEDULE
2313	4'x8' VISUAL DISPLAY UNIT. COORDINATE LOCATION WITH LOCATION OF FUTURE LCD SCREEN (NOT IN CONSTRUCTION CONTRACT)
2315	VERIFY (E) OR PROVIDE TACTILE EXIT SIGNAGE, MOUNTING PER DETAIL 8/A8500
2317	VERIFY (E) OR PROVIDE TACTILE CLASSROOM SIGNAGE PER DETAIL 8/A8500
2327	ASSISTIVE LEARNING DEVICE SIGNAGE PER DETAIL 26/A8500
2701	REMOVE AND DISPOSE LIGHT FIXTURES.
2702	REMOVE AND REPLACE EACH (E)T-BAR CEILING TILE.
2704	T-BAR CEILING GRID TO REMAIN, PREPARE FOR NEW TILES
2712	REMOVE MECHANICAL GRILLES
2713	REMOVE CEILING MOUNTED PROJECTOR AND RETURN TO OWNER

LEGEND

- REMOVE (E) CONSTRUCTION, REFER TO REMOVAL KEYNOTES FOR ADDITIONAL INFORMATION
- (E) 2x4 SUSPENDED ACOUSTICAL CEILING SYSTEM TO REMAIN. REPLACE (E) CEILING TILES THROUGHOUT
- AIR TERMINAL . SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- LIGHT FIXTURES . SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- CEILING SLOPE ARROW
- +10' - 0" CEILING HEIGHT DESIGNATION
- CLEAR FLOOR SPACE AS SHOWN
- NEW CASEWORK. SEE INTERIOR ELEVATIONS FOR DIMENSIONS
- xx'-xx" EXIT DISCHARGE, TOTAL DISTANCE AT LEADER HEAD

KEY PLAN



CODE ANALYSIS

Building E Occcupancy

Number	Name	Occupancy	Area	Occupant Load Factor	Occupant Count	Required # of Exits
15	(E) CLASSROOM	E	909 SF	20	46	1
16	(E) CLASSROOM	E	909 SF	20	46	1
17	(E) CLASSROOM	E	910 SF	20	46	1
18	(E) CLASSROOM	E	909 SF	20	46	1
19	(E) CLASSROOM	E	909 SF	20	46	1

DEMOLITION SCHEDULE - CLASSROOMS

FLOOR/BASE		WALL		CEILING	
0	EXISTING FLOOR & BASE TO REMAIN	0	EXISTING WALL FRAMING/FINISH TO REMAIN. PREP WALL FOR NEW FINISHES PER SCHEDULE. REMOVE AND RELOCATE EXISTING ACCESSORIES, RACEWAYS, CONDUIT TO ACCOMMODATE NEW FINISHES	0	EXISTING CEILING TO REMAIN
1	REMOVE EXISTING FLOOR AND BASE IN ITS ENTIRETY. PREP FLOOR TO RECEIVE NEW FINISH PER SCHEDULE. SEE ADDITIVE ALTERNATE NO. 1	A		1	REMOVE EXISTING CEILING TILES, AND PREPARE EXISTING GRID FOR NEW TILES
2		B		2	
3		C		3	

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OPSC or OSHPD PROJ. NO:	
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DRAWN BY:	Author
CHK'D BY:	Checker
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SHEET TITLE

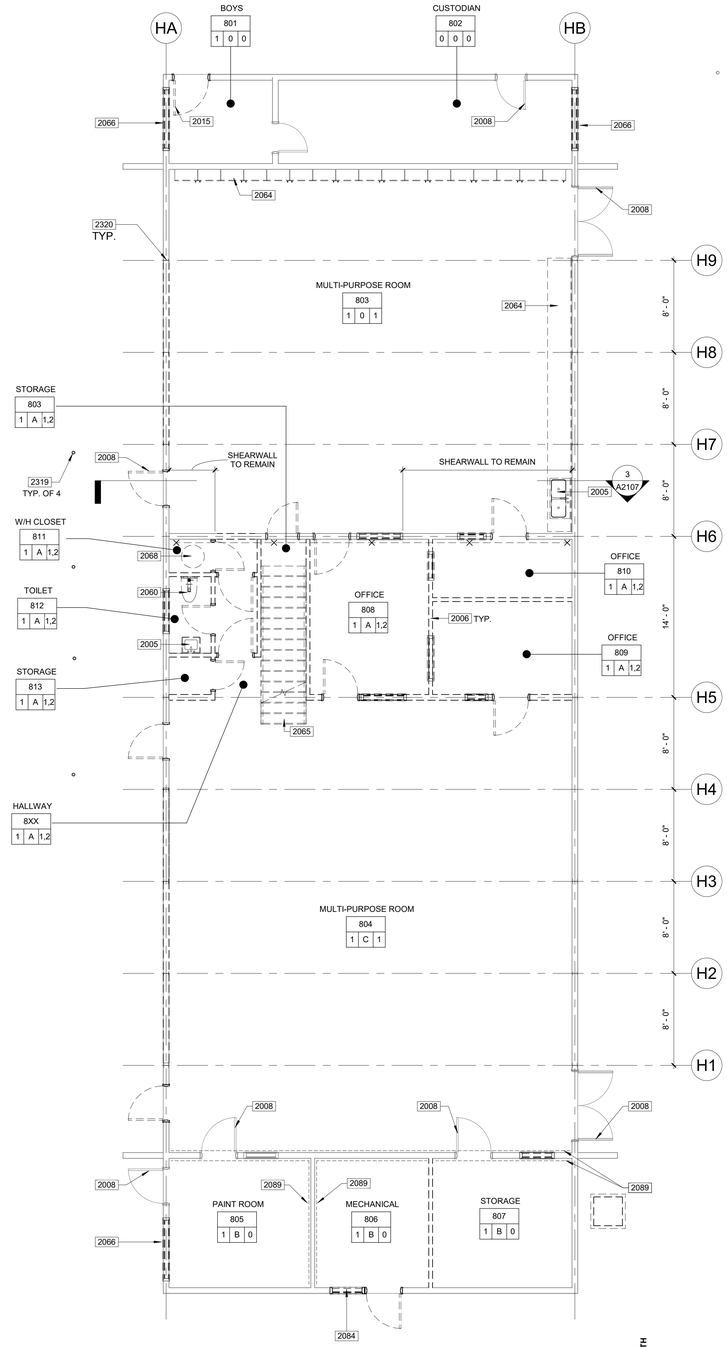
CLASSROOM FLOOR AND CEILING PLANS - BUILDING E

SHEET NUMBER

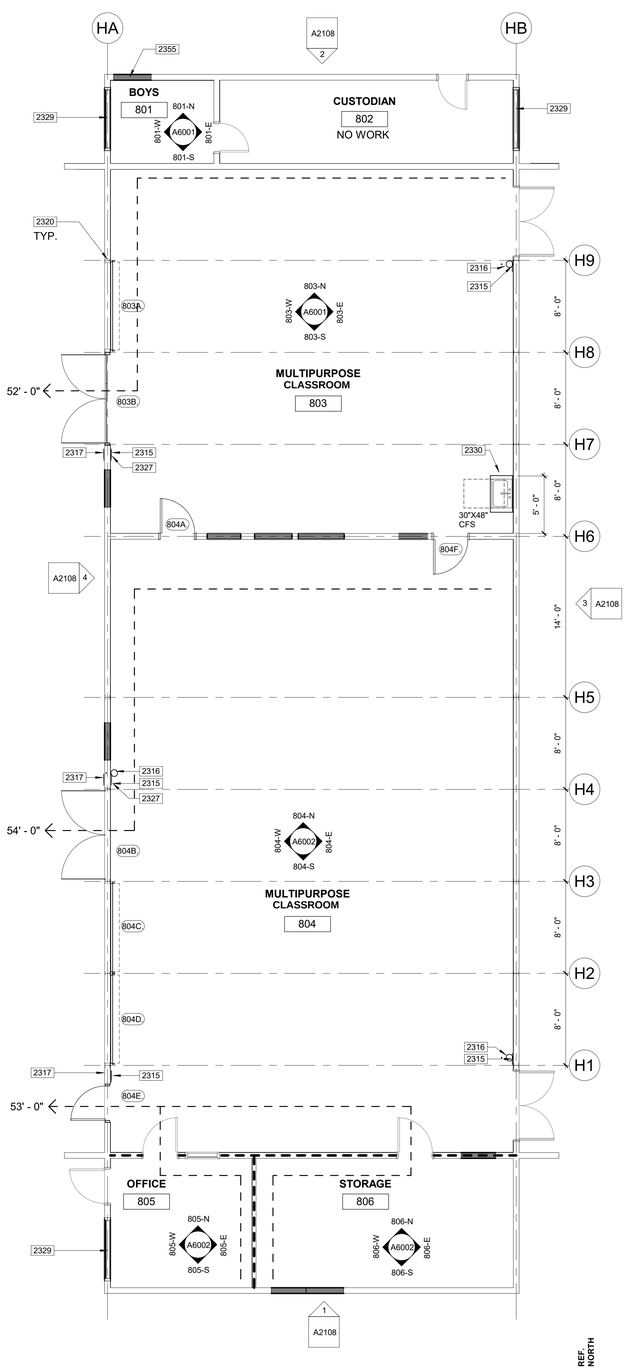
PHASE III

A2104

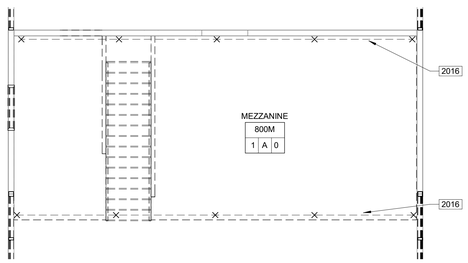
PLOT DATE: 2020-03-06 2:01:13 PM C:\Users\carlos.zaragoza\Documents\REVIT2018\BATH-118934-BLDGS_v2018_carlos.zaragoza.rvt



2 DEMOLITION FLOOR PLAN - BUILDING H
3/16" = 1'-0"



1 FLOOR PLAN - BUILDING H
3/16" = 1'-0"



3 DEMOLITION FLOOR PLAN - BUILDING H - MEZZANINE
3/16" = 1'-0"

CODE ANALYSIS

Building H Occcupancy

Number	Name	Occupancy	Area	Occupant Load Factor	Occupant Count	Required # of Exits
801	BOYS	E	63 SF	20	4	1
802	CUSTODIAN	E	185 SF	300	1	1
803	MULTIPURPOSE CLASSROOM	E	1103 SF	50	23	1
804	MULTIPURPOSE CLASSROOM	E	1377 SF	50	28	1
805	OFFICE	E	139 SF	100	2	1
806	STORAGE	E	252 SF	300	1	1

DEMOLITION SCHEDULE - BUILDING H

	FLOOR/BASE		WALL		CEILING
0	EXISTING FLOOR FINISH TO REMAIN	0	EXISTING WALL FRAMING & FINISHES TO REMAIN PER FLOOR PLAN. PATCH & REPAIR AS REQUIRED TO MATCH EXISTING FINISHES	0	EXISTING EXPOSED CEILING TO REMAIN
1	REMOVE EXISTING FLOOR AND BASE IN ITS ENTIRETY	A	REMOVE EXISTING WALL FRAMING & FINISHES AS INDICATED.	1	REMOVE EXSTING CEILING/MEZZANINE IN ITS ENTIRETY TO EXPOSE ROOF STRUCTURE
2		B	REMOVE ALL EXISTING WALL FINISHES, FRAMING TO REMAIN. RECONSTRUCT WALL PER DETAIL 16/A8200.	2	
3		C		3	

GENERAL NOTES

1. REFER TO DEMOLITION PLAN FOR EXISTING CONSTRUCTION TO BE REMOVED.
2. REFER TO SHEET A9000 FOR FINISH SCHEDULE.
3. REFER TO INTERIOR ELEVATION FOR ALL WALL MOUNTED ITEMS AND CABINET TYPES.
4. REFER TO STRUCTURAL DRAWINGS FOR FRAMING OF OPENINGS.
5. WHERE STRUCTURAL DRAWINGS INDICATE PLYWOOD SHEAR WALL OVER STUD FRAMING, PLYWOOD IS TO EXTEND OVER ENTIRE SURFACE, REGARDLESS OF EXTENT SHOWN ON THE STRUCTURAL DRAWINGS, TO ELIMINATE OFFSETS IN SUBSTRATE FOR FINISHES.
6. PROVIDE SOLID 2x FIRE STOP BLOCKING IN ALL STUD WALL FRAMED CAVITIES, AT INTERSECTION OF CEILING, FLOORS, AND MAXIMUM 10 FT. INTERVALS.
7. SEE OTHER DISCIPLINES FOR ADDITIONAL SCOPE OF WORK NOT SHOWN IN THE ARCHITECTURAL DRAWINGS
8. SEE ENLARGED PLANS FOR ADDITIONAL INFORMATION.
9. PROVIDE ASSISTIVE LISTENING DEVICE SIGNAGE AT ALL MODULAR BUILDING CLASSROOMS, REFER TO DETAIL 25/3A8500 FOR SIGNAGE REQUIREMENTS.
10. GENERAL CONTRACTOR TO PROVIDE VISUAL DISPLAY UNITS AT ALL MODULAR CLASSROOMS PER PC DRAWING LOCATIONS.
11. ALL CLASSROOMS IN SCOPE OF WORK SHALL BE PROVIDED WITH ASSISTIVE LISTENING SYSTEMS PER DETAIL 25/A8500

KEYNOTES

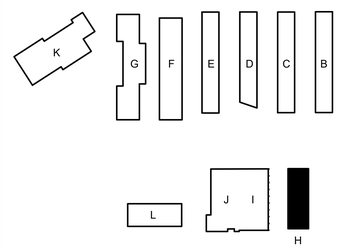
2005	REMOVE AND DISPOSE SINK
2006	REMOVE AND DISPOSE OF WALL, PATCH AND REPAIR FLOORS AND ADJACENT WALLS TO MATCH EXISTING FINISHES
2008	EXISTING DOOR TO REMAIN
2015	REMOVE, DISPOSE, AND INFILL DOOR AND FRAME.SEE DETAIL 1/A8600 FOR INFILL DETAILS.
2016	REMOVED EXISTING CHAINLINK ENTIRELY
2060	REMOVE AND DISPOSE TOILET
2064	REMOVE AND DISPOSE EXISTING CASEWORK
2065	REMOVE AND DISPOSE STAIR AND HANDRAIL
2066	REMOVE AND DISPOSE WINDOW
2068	REMOVE AND DISPOSE WATERHEATER
2084	REMOVE (E) LOUVERS
2089	REMOVE (E) FINISH AT DASHED LINE
2315	VERIFY (E) OR PROVIDE TACTILE EXIT SIGNAGE, MOUNTING PER DETAIL 8/A8500
2316	WALL MOUNTED 2A:10B:C FIRE EXTINGUISHER. SEE DETAIL 26/A8500 FOR MOUNTING HEIGHT
2317	VERIFY (E) OR PROVIDE TACTILE CLASSROOM SIGNAGE PER DETAIL 8/A8500
2319	EXISTING PIPE COLUMNS TO REMAIN
2320	COLUMN AT GRIDLINE INTERSECTION
2327	ASSISTIVE LEARNING DEVICE SIGNAGE PER DETAIL 26/A8500
2329	WINDOW. SEE EXTERIOR ELEVATIONS AND SCHEDULES
2330	COUNTER TOP WITH SINK CENTERED, SEE PLUMBING
2355	INFILL EXISTING WINDOW W/ WALL ASSEMBLY TO MATCH ADJACENT WALL

LEGEND

NOTE: ALL SYMBOLS AND PATTERNS MAY NOT NECESSARILY OCCUR ON THIS SHEET.

- (E) WALL TO REMAIN
- NEW WALL INFILL, PATCH AND REPAIR TO MATCH EXISTING ADJACENT WALL, SEE DETAIL 1/A8600
- REMOVE (E) WALL OR PORTION OF WALL IN ITS ENTIRETY
- REMOVE (E) CONSTRUCTION, REFER TO REMOVAL KEYNOTES FOR ADDITIONAL INFORMATION
- REMOVE (E) DOOR & FRAME IN ITS ENTIERTY
- 101A — DOOR NUMBER
- A — DENOTES ACCESSIBILITY FIXTURE
- FIRE RATED WALL PER DETAIL 16/A8200
- xx'-xx" — EXIT DISCHARGE, LONGEST TOTAL DISTANCE AT LEADER HEAD

KEY PLAN



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Where The Child Comes First

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SHEET TITLE

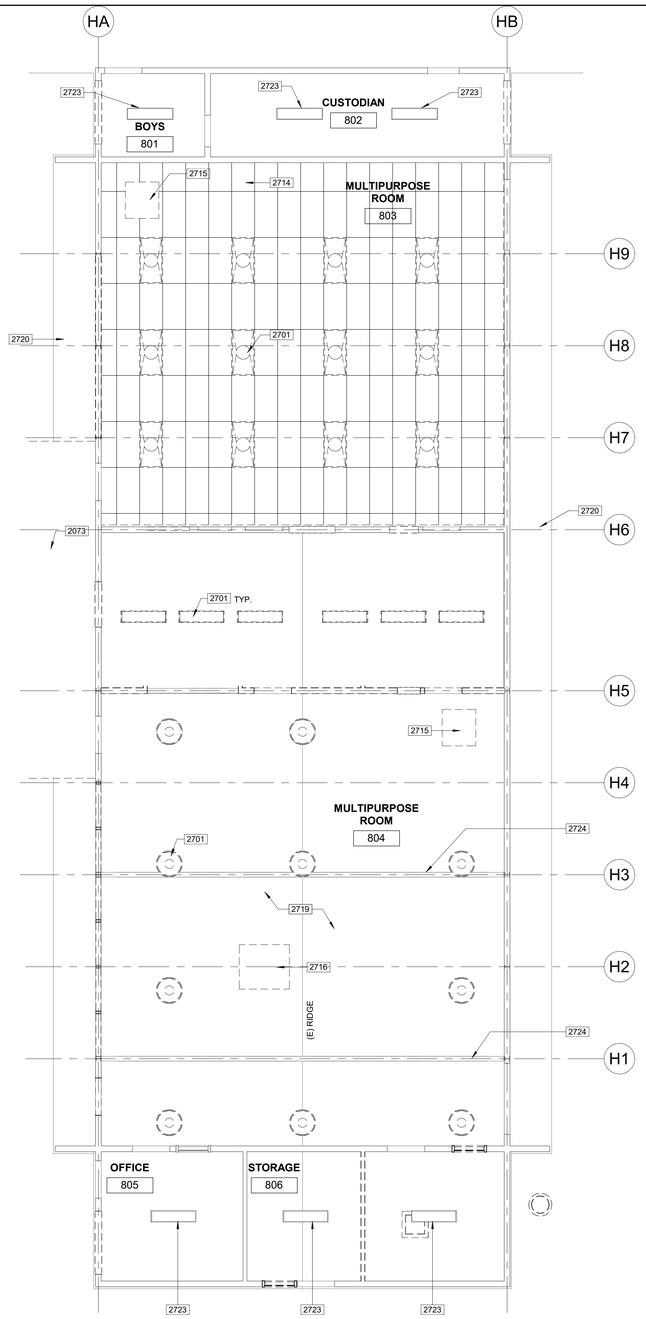
BUILDING H - FLOOR PLANS

SHEET NUMBER

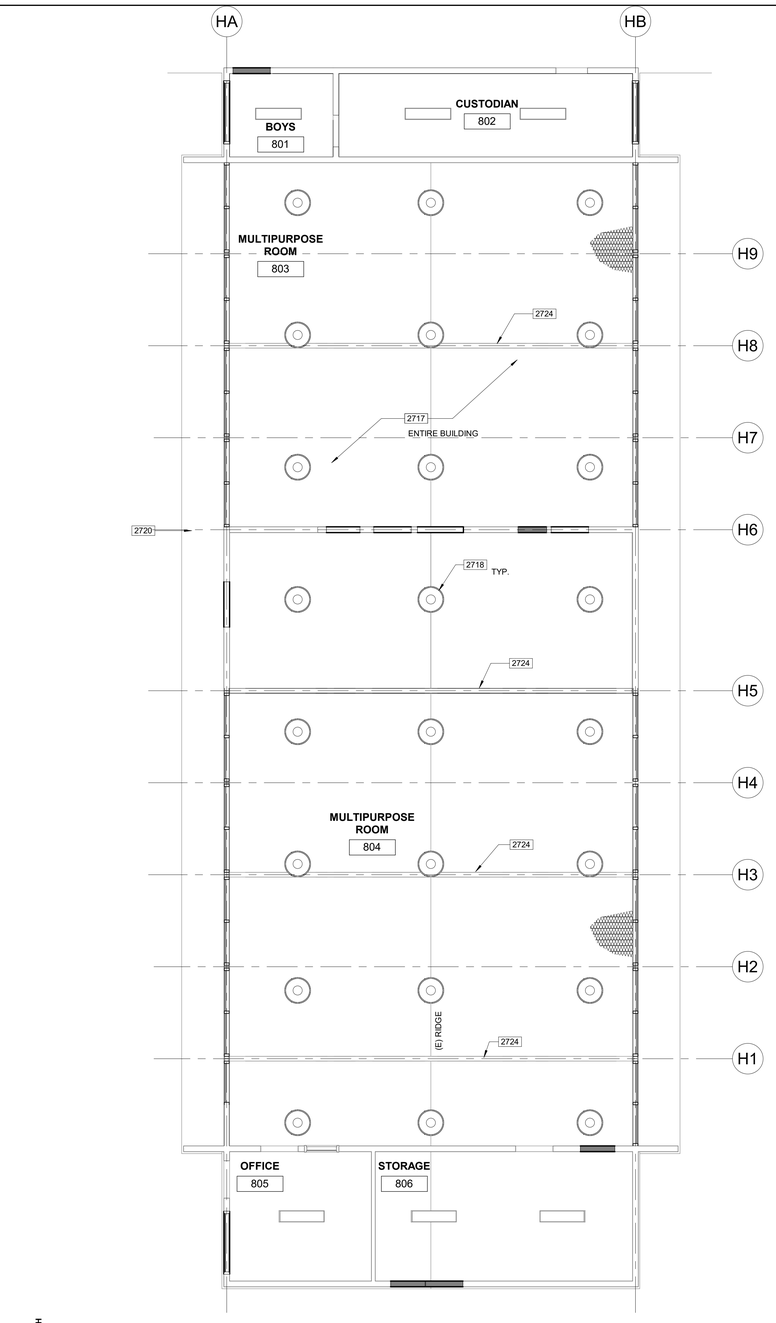
PHASE III

A2105

PLOT DATE: 2020-03-16 3:24:54 PM C:\Users\carlos.zaragoza\Documents\REVIT\21918-BLDG3_r2018_carlos.zaragoza.rvt



2 DEMOLITION REFLECTED CEILING PLAN - BUILDING H
3/16" = 1'-0"



1 PROPOSED REFLECTED CEILING PLAN - BUILDING H
3/16" = 1'-0"

GENERAL NOTES

1. REFER TO DEMOLITION PLAN FOR EXISTING CONSTRUCTION TO BE REMOVED.
2. REFER TO SHEET A9000 FOR FINISH SCHEDULE.
3. REFER TO INTERIOR ELEVATION FOR ALL WALL MOUNTED ITEMS AND CABINET TYPES.
4. REFER TO STRUCTURAL DRAWINGS FOR FRAMING OF OPENINGS.
5. WHERE STRUCTURAL DRAWINGS INDICATE PLYWOOD SHEAR WALL OVER STUD FRAMING, PLYWOOD IS TO EXTEND OVER ENTIRE SURFACE, REGARDLESS OF EXTENT SHOWN ON THE STRUCTURAL DRAWINGS, TO ELIMINATE OFFSETS IN SUBSTRATE FOR FINISHES.
6. PROVIDE SOLID 2x FIRE STOP BLOCKING IN ALL STUD WALL FRAMED CAVITIES, AT INTERSECTION OF CEILING, FLOORS, AND MAXIMUM 10 FT. INTERVALS.
7. SEE OTHER DISCIPLINES FOR ADDITIONAL SCOPE OF WORK NOT SHOWN IN THE ARCHITECTURAL DRAWINGS
8. SEE ENLARGED PLANS FOR ADDITIONAL INFORMATION.
9. PROVIDE ASSISTIVE LISTENING DEVICE SIGNAGE AT ALL MODULAR BUILDING CLASSROOMS, REFER TO DETAIL 25/3A8500 FOR SIGNAGE REQUIREMENTS.
10. GENERAL CONTRACTOR TO PROVIDE VISUAL DISPLAY UNITS AT ALL MODULAR CLASSROOMS PER PC DRAWING LOCATIONS.

KEYNOTES

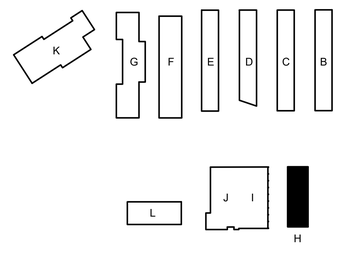
2073	REMOVE AND DISPOSE CANOPY. REMOVE AND DISPOSE CANOPY FLASHING. PATCH AND PREPARE SURFACE TO RECEIVE NEW WORK
2701	REMOVE AND DISPOSE LIGHT FIXTURES.
2714	REMOVE AND DISPOSE ACOUSTICAL CEILING ASSEMBLY AND GRID
2715	REMOVE AND DISPOSE SUSPENDED SPACE HEATER. SEE MECHANICAL FOR ADDITIONAL INFORMATION
2716	REMOVE AND DISPOSE EVAPORATIVE COOLER
2717	INSTALL FACED R-38 INSULATION INBETWEEN ROOF JOISTS
2718	PENDANT LIGHT. SEE ELECTRICAL DRAWING
2719	SPACE OPEN TO EXPOSED ROOF STRUCTURE ABOVE
2720	LINE INDICATES EXTENT OF ROOF OVERHANG ABOVE
2723	EXISTING LIGHT FIXTURE TO REMAIN
2724	EXISTING EXPOSED TRUSS TO REMAIN

LEGEND

NEW WALL INFILL, PATCH AND REPAIR TO MATCH EXISTING ADJACENT WALL, SEE DETAIL 1/A8600

R-19 RIGID ROOF INSULATION PER DETAIL 26/A8200

KEY PLAN



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PROJECT NO:	118934
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ISSUE DATE:	08/19/2019

SHEET TITLE

BUILDING H - REFLECTED CEILING PLANS

SHEET NUMBER

PHASE III

A2106

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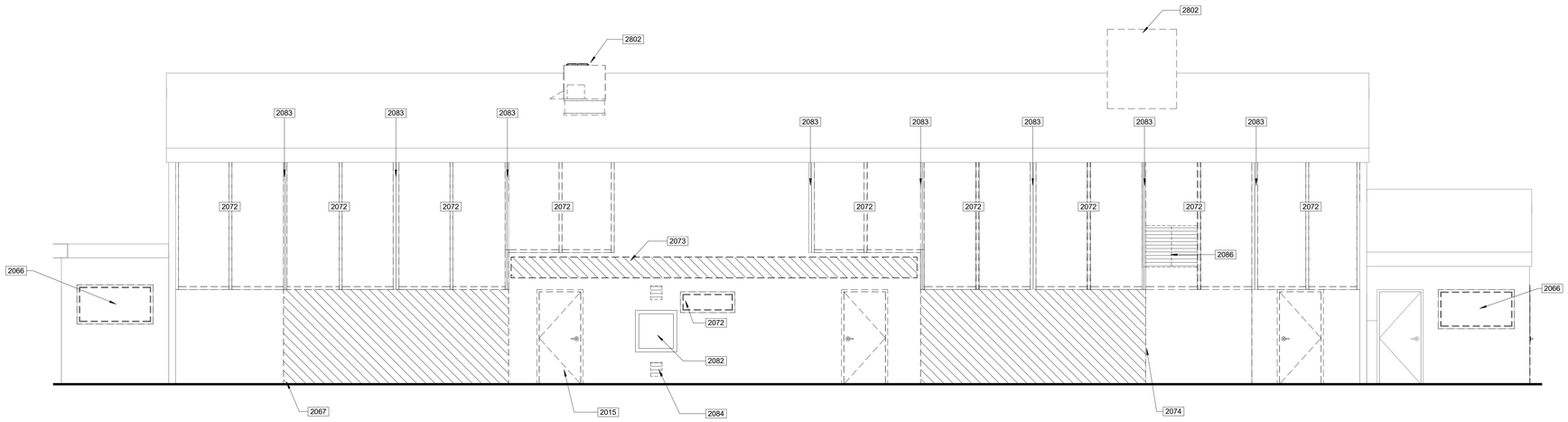
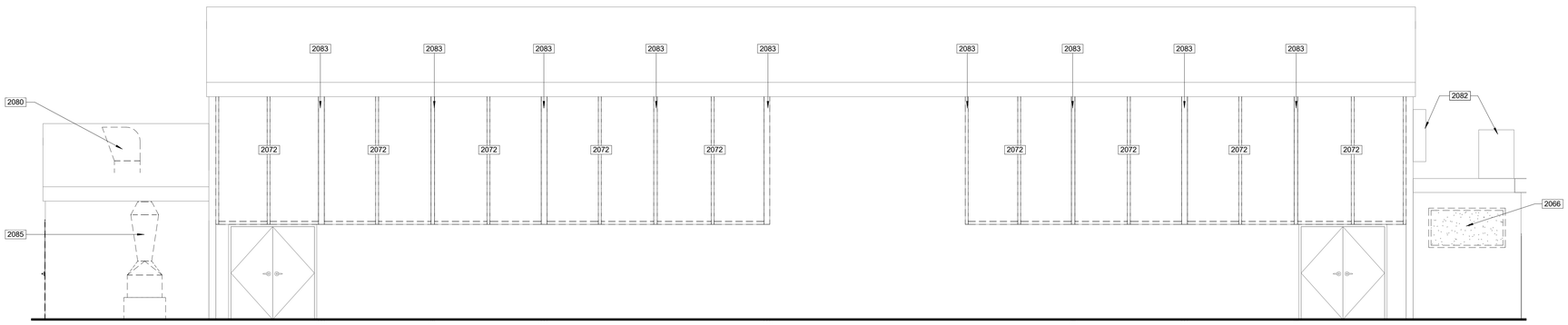
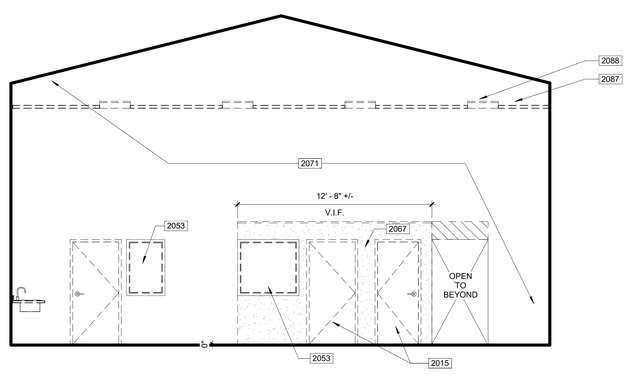


1 BUILDING H SOUTH DEMOLITION ELEVATION
1/4" = 1'-0"



2 BUILDING H NORTH DEMOLITION ELEVATION
1/4" = 1'-0"



3 BUILDING H SHEARWALL DEMOLITION ELEVATION
1/4" = 1'-0"

3000-GENERAL NOTES

1. ALL EXTERIOR FINISHES EXPOSED TO VIEW SHALL BE PAINTED AS INDICATED ON DRAWINGS.
2. REFER TO OTHER DISCIPLINES FOR ADDITIONAL INFORMATION AND DEVICES NOT SHOWN.

KEYNOTES

2015	REMOVE, DISPOSE, AND INFILL DOOR AND FRAME.SEE DETAIL 1/A8600 FOR INFILL DETAILS.
2053	REMOVE, DISPOSE, AND INFILL WINDOW.SEE DETAIL 1/A8600 FOR INFILL DETAILS.
2066	REMOVE AND DISPOSE WINDOW
2067	REMOVE AND DISPOSE PORTION OF WALL AS INDICATED
2071	EXISTING SHEARWALL TO REMAIN. PROTECT FROM DAMAGE DURING DEMOLITION. SEE STRUCTURAL FOR ADDITIONAL INFORMATION
2072	REMOVE AND DISPOSE WINDOW AND STEEL WINDOW FRAME. PROTECT I SHAPE MULLION AND WIDE FLANGE COLUMN FROM DAMAGE DURING DEMOLITION
2073	REMOVE AND DISPOSE CANOPY. REMOVE AND DISPOSE CANOPY FLASHING. PATCH AND PREPARE SURFACE TO RECEIVE NEW WORK
2074	REMOVE AND DISPOSE PORTION OF I SHAPE MULLION AS INDICATED
2080	(E) ROOF VENT TO BE REMOVE. PATCH AND REPAIR OPENING IN ROOF TO MATCH ADJACENT FINISHES
2082	(E) ELECTRICAL BOXES TO REMAIN
2083	(E) STEEL COLUMNS TO REMAIN
2084	REMOVE (E) LOUVERS
2085	REMOVE (E) DUST COLLECTOR IN ITS ENTIRETY, INCLUDING ASSOCIATED PLATAFORM. PATCH AND REPAIR WALLS AND GRADE TO MATCH ADJACENT FINISHES
2086	REMOVE (E) WALL MOUNTED HVAC UNIT
2087	REMOVE (E) T-BAR CEILING
2088	REMOVE (E) LIGHT FIXTURES
2802	REMOVE HVAC UNIT. SEE MECHANICAL

LEGEND

DASHED LINE DENOTES EXTENT OF DEMOLITION WORK

REMOVE EXISTING CONSTRUCTION, REFER TO DEMOLITION KEYNOTES FOR ADDITIONAL INFORMATION

DEMOLITION OF WALL OR OTHERWISE INDICATED, REFER TO DEMOLITION KEYNOTES FOR ADDITIONAL INFORMATION

EXISTING TO REMAIN. REFER TO OVERALL PLANS PLAN FOR SCOPE UNDER THIS CONTRACT

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SHEET TITLE

BUILDING H - DEMOLITION EXTERIOR ELEVATIONS

SHEET NUMBER

PHASE III

A2107

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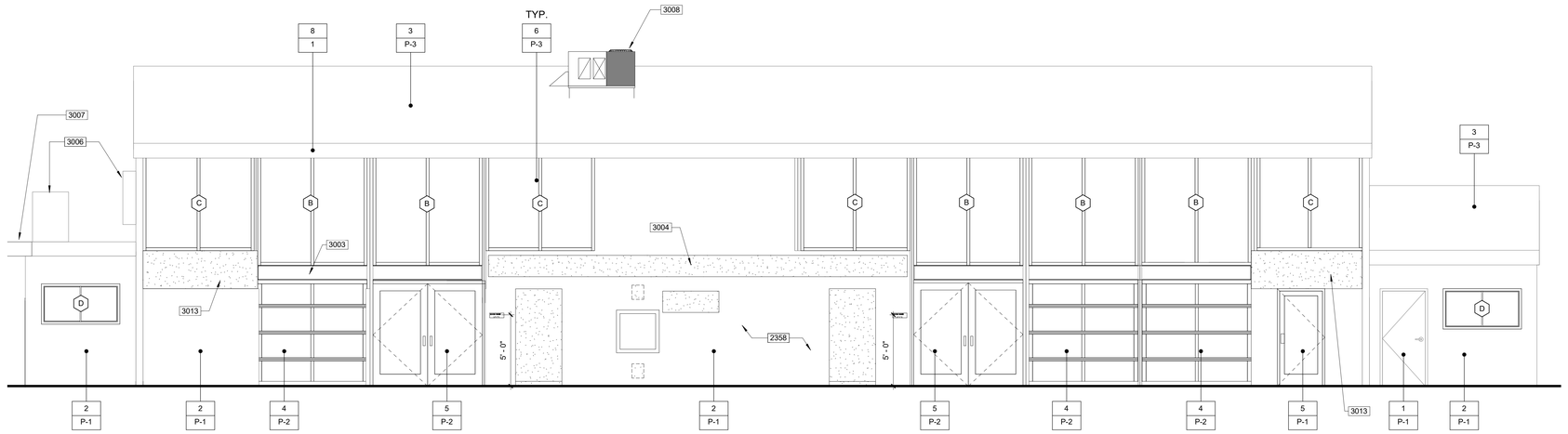
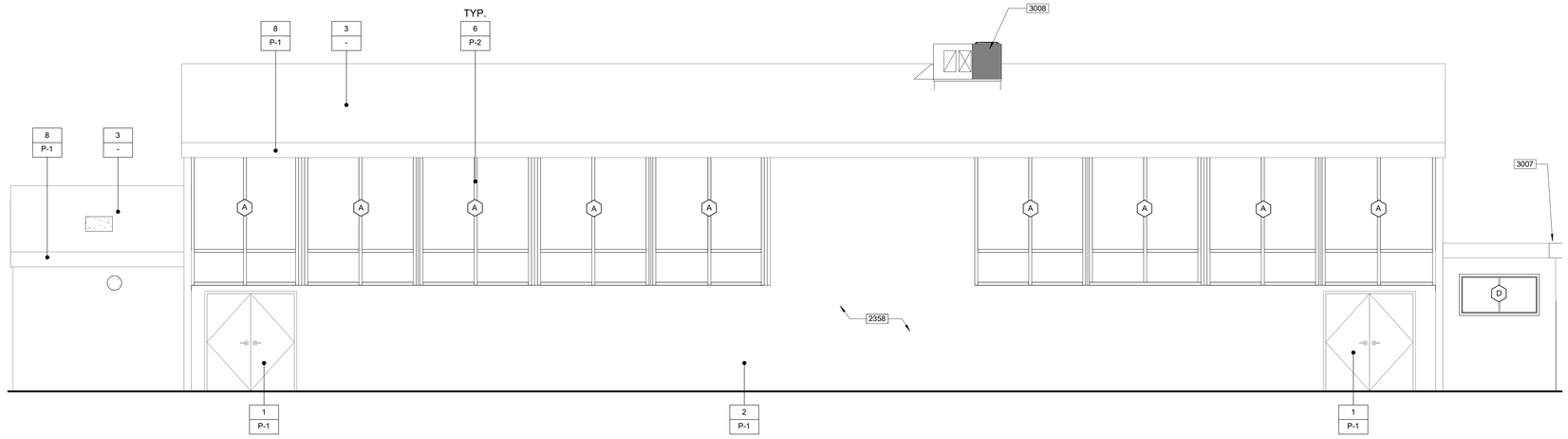
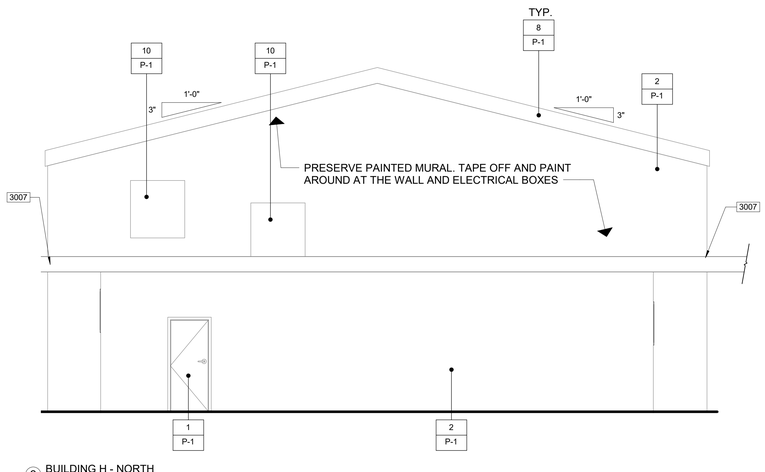


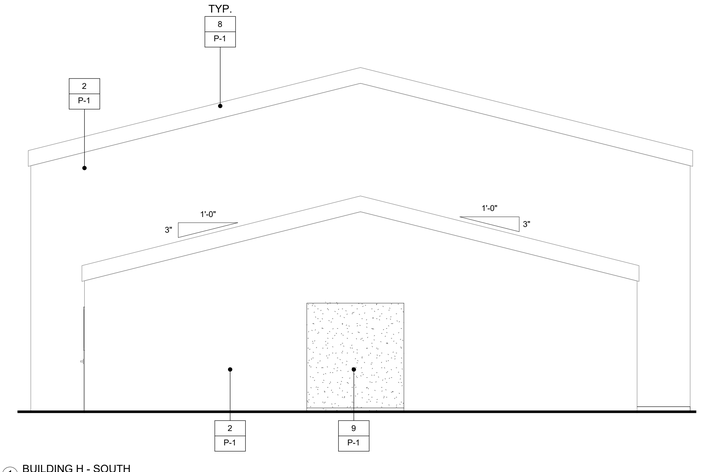
4 BUILDING H - WEST
1/4" = 1'-0"



3 BUILDING H - EAST
1/4" = 1'-0"



2 BUILDING H - NORTH
1/4" = 1'-0"



1 BUILDING H - SOUTH
1/4" = 1'-0"

3000-GENERAL NOTES

1. ALL EXTERIOR FINISHES EXPOSED TO VIEW SHALL BE PAINTED AS INDICATED ON DRAWINGS.
2. REFER TO OTHER DISCIPLINES FOR ADDITIONAL INFORMATION AND DEVICES NOT SHOWN.

KEYNOTES

2358	NEW CEMENT PLASTER TO MATCH ADJACENT TEXTURE
3003	STEEL HEADER, SEE STRUCTURAL DRAWINGS
3004	NEW CEMENT PLASTER TO MATCH ADJACENT TEXTURE PER DETAIL 8/A8200
3006	(E) ELECTRICAL BOXES TO REMAIN, PAINT AROUND MURALS
3007	(E) CANOPY, SEE ROOF PLANS
3008	MECHANICAL UNIT, SEE MECHANICAL
3013	INFILL PER DETAIL 1/A8600

LEGEND

(E) WALL FINISH TO REMAIN, PAINT U.O.N.

PATCH AND REPAIR WALL FINISHES TO MATCH EXISTING PAINT, SEE DETAIL 1/A8600 FOR WALL INFILL

101A — WINDOW DESIGNATION SEE A9000 FOR TYPES

MATERIAL & FINISH DESIGNATION

NOTE: REFER TO SPECIFICATION SECTION **09 06 00** COLORS & FINISHES

MATERIAL DESIGNATION

COLOR / FINISH DESIGNATION

MATERIAL DESIGNATION

1. (E) DOOR
2. (E) EXTERIOR CEMENT PLASTER
3. (E) COMPOSITE ROOFING
4. SECTIONAL ROLL-UP DOOR
5. ALUMINUM DOOR FRAME
6. ALUMINUM WINDOW FRAME
7. STRUCTURAL STEEL
8. FASCIA
9. EXTERIOR CEMENT PLASTER
10. ELECTRICAL/MECHANICAL EQUIPMENT
11. PARAPET CAP

COLOR / FINISH DESIGNATION

P-1 PAINTED
P-2 INTERGRAL COLOR

AGENCY INFORMATION:

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	08/19/2019

SHEET TITLE

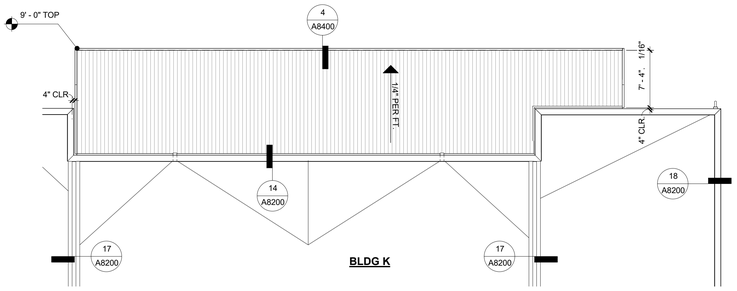
BUILDING H - PROPOSED EXTERIOR ELEVATIONS

SHEET NUMBER

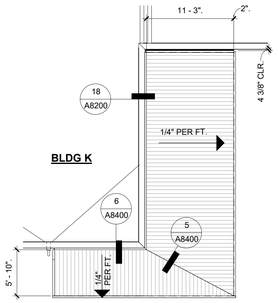
PHASE III

A2108

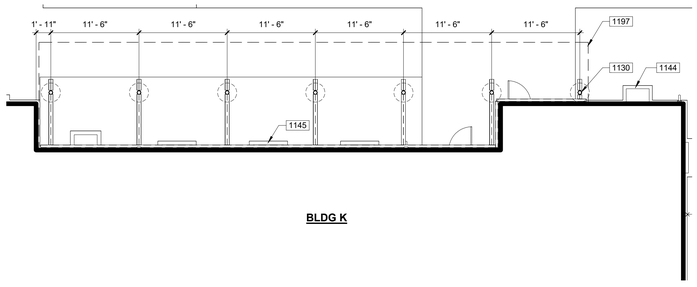
PLOT DATE: 2020-03-06 2:02:54 PM C:\Users\carlos.zaragoza\Documents\RVT2019\ATW-118934-BLDG5_2018_carlos.zaragoza.rvt



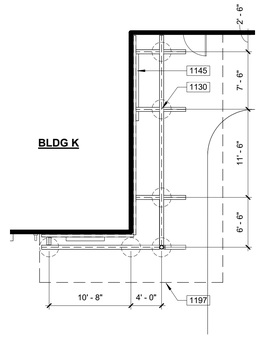
4 BUILDING K - NORTH CANOPY
1/8" = 1'-0"



1 BUILDING K - EAST CANOPY
1/8" = 1'-0"



5 BUILDING K - NORTH CANOPY COLUMN PLAN
1/8" = 1'-0"



3 BUILDING K - EAST CANOPY COLUMN PLAN
1/8" = 1'-0"

2800-GENERAL NOTES

1. WHERE TOPOGRAPHIC ELEVATION ARE NOT GIVEN ON ROOF PLANS FOR SLOPING ROOF AREAS, REFER TO BUILDING SECTIONS FOR FRAMING HEIGHTS.
2. REFER TO EXTERIOR ELEVATIONS FOR PLACEMENT OF EXPOSED DOWNSPOUTS.
3. PROVIDE CRICKETS AT HIGH SIDE OF ALL ROOF MOUNTED EQUIPMENT.

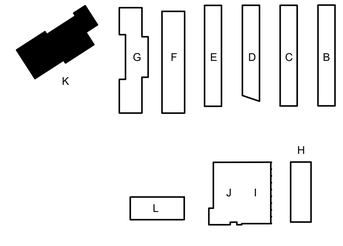
KEYNOTES

1130	COLUMN PER STRUCTURAL DRAWINGS
1144	FOUNDATION ACCESS HATCH PER MODULAR DRAWINGS
1145	FOUNDATION VENT, PER MODULAR DRAWINGS. PROVIDE ADA COMPLIANT GRATE AT PATH-OF-TRAVEL LOCATIONS
1197	DASHED LINE INDICATES CANOPY OVERHEAD

LEGEND

- ROOF SLOPE AS INDICATED
- METAL DECK (LINES REPRESENT DIRECTION OF DECK)
- HVAC UNIT (N.T.S.)
- PARAPET WALL

KEY PLAN



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BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
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ISSUE DATE:	08/19/2019

SHEET TITLE

ENLARGED CANOPY PLANS

SHEET NUMBER

PHASE III

A2800

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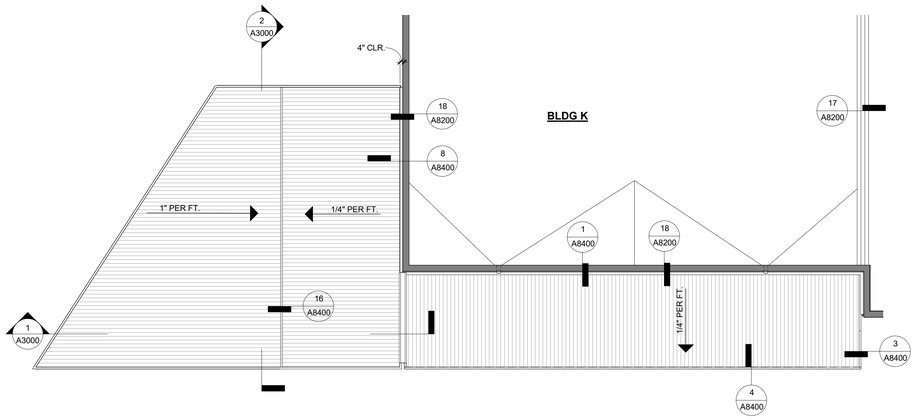
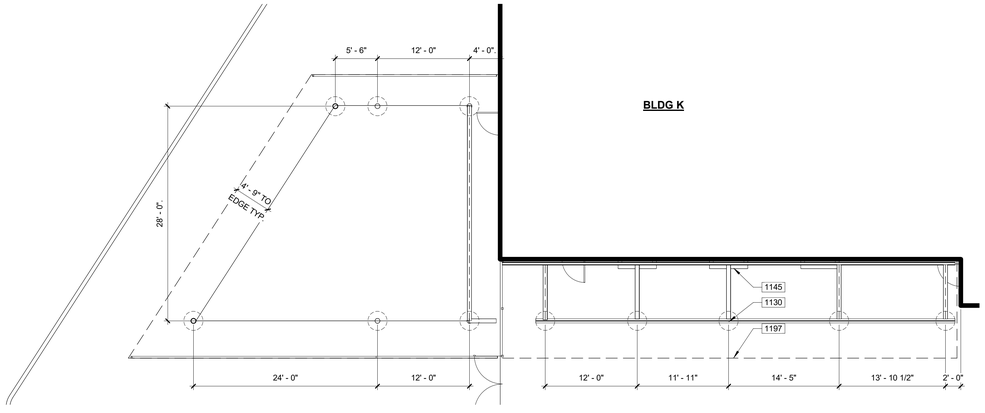


1 BUILDING K - SOUTHWEST CANOPY
1/8" = 1'-0"



2 BUILDING K - SOUTHWEST CANOPY COLUMN PLAN
1/8" = 1'-0"

2800-GENERAL NOTES

1. WHERE TOPOGRAPHIC ELEVATION ARE NOT GIVEN ON ROOF PLANS FOR SLOPING ROOF AREAS, REFER TO BUILDING SECTIONS FOR FRAMING HEIGHTS.
2. REFER TO EXTERIOR ELEVATIONS FOR PLACEMENT OF EXPOSED DOWNSPOUTS.
3. PROVIDE CRICKETS AT HIGH SIDE OF ALL ROOF MOUNTED EQUIPMENT.

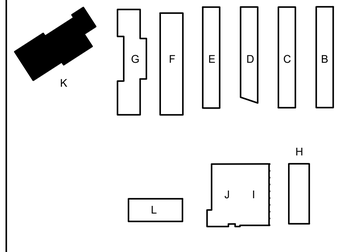
KEYNOTES

1130	COLUMN PER STRUCTURAL DRAWINGS
1145	FOUNDATION VENT. PER MODULAR DRAWINGS. PROVIDE ADA COMPLIANT GRATE AT PATH-OF-TRAVEL LOCATIONS
1197	DASHED LINE INDICATES CANOPY OVERHEAD

LEGEND

- ROOF SLOPE AS INDICATED
- METAL DECK (LINES REPRESENT DIRECTION OF DECK)
- HVAC UNIT (N.T.S.)
- PARAPET WALL

KEY PLAN



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ENLARGED CANOPY PLANS

SHEET NUMBER

PHASE III

A2801

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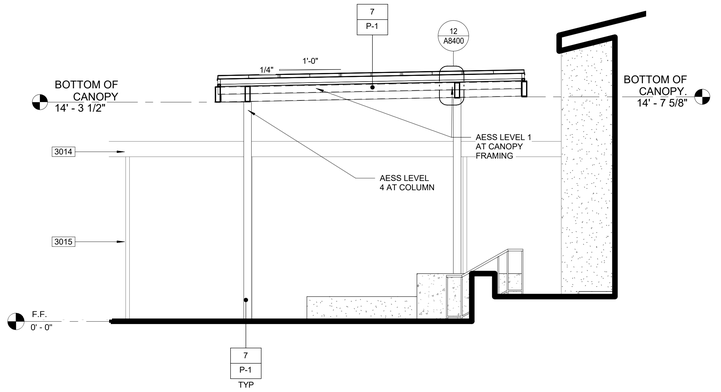
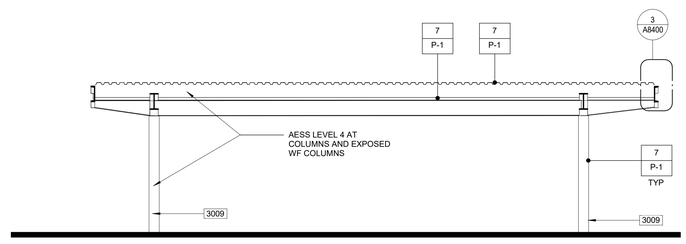


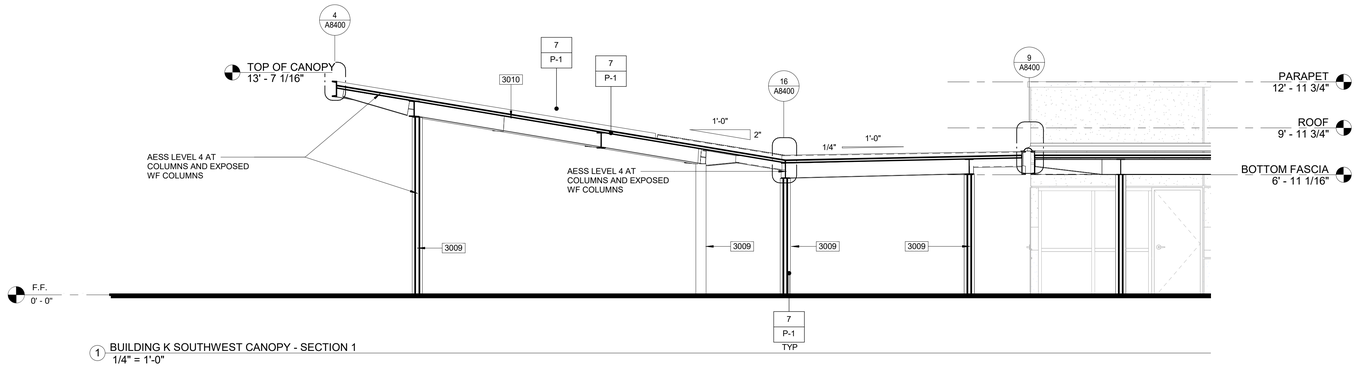
3 BUILDING H CANOPY - SECTION 1
1/4" = 1'-0"

SEE GENERAL NOTE 3 FOR TYPICAL FIRE PROOFING REQUIREMENTS



2 BUILDING K SOUTHWEST CANOPY - SECTION 2
1/4" = 1'-0"

SEE GENERAL NOTE 3 FOR TYPICAL FIRE PROOFING REQUIREMENTS



1 BUILDING K SOUTHWEST CANOPY - SECTION 1
1/4" = 1'-0"

SEE GENERAL NOTE 3 FOR TYPICAL FIRE PROOFING REQUIREMENTS

3000-GENERAL NOTES

1. ALL EXTERIOR FINISHES EXPOSED TO VIEW SHALL BE PAINTED AS INDICATED ON DRAWINGS.
2. REFER TO OTHER DISCIPLINES FOR ADDITIONAL INFORMATION AND DEVICES NOT SHOWN.
3. MINIMUM 1 HR RATED APPLICATION REQUIRED BASED ON FLAMEOFF FIRE BARRIER PAINT

KEYNOTES

3009 STEEL COLUMN, SEE STRUCTURAL, PREP FOR PAINT.
3010 STEEL DECK, SEE STRUCTURAL, PREP FOR PAINT.
3014 (E) COVERED WALK BEYOND
3015 (E) COLUMN TO REMAIN

MATERIAL & FINISH DESIGNATION

NOTE: REFER TO SPECIFICATION SECTION **09 06 00** COLORS & FINISHES

MATERIAL DESIGNATION
COLOR / FINISH DESIGNATION

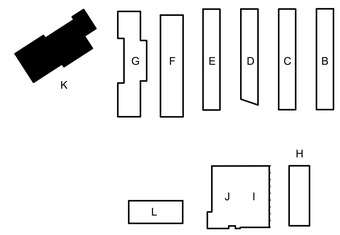
MATERIAL DESIGNATION

1. (E) DOOR
2. (E) EXTERIOR CEMENT PLASTER
3. (E) COMPOSITE ROOFING
4. SECTIONAL ROLL-UP DOOR
5. ALUMINUM DOOR FRAME
6. ALUMINUM WINDOW FRAME
7. STRUCTURAL STEEL
8. FASCIA
9. EXTERIOR CEMENT PLASTER
10. ELECTRICAL/MECHANICAL EQUIPMENT
11. PARAPET CAP

COLOR / FINISH DESIGNATION

P-1 PAINTED
P-2 INTERGRAL COLOR

KEY PLAN



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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

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SHEET TITLE

CANOPY SECTIONS

SHEET NUMBER

PHASE III

A3000

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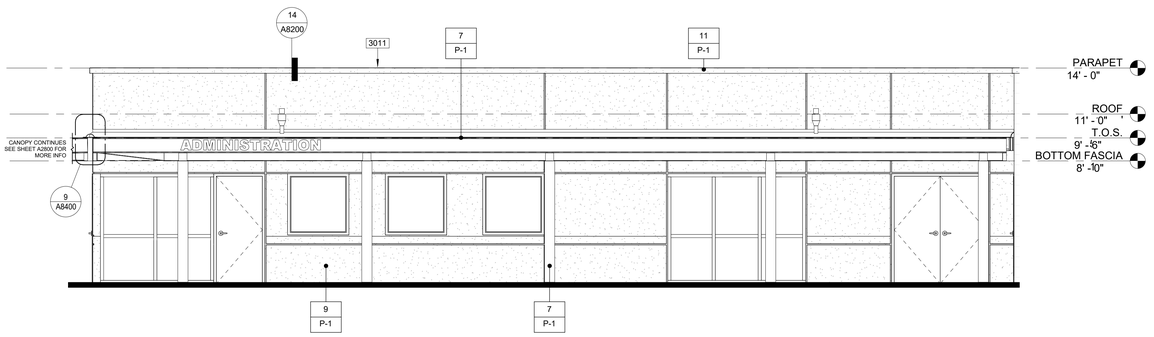
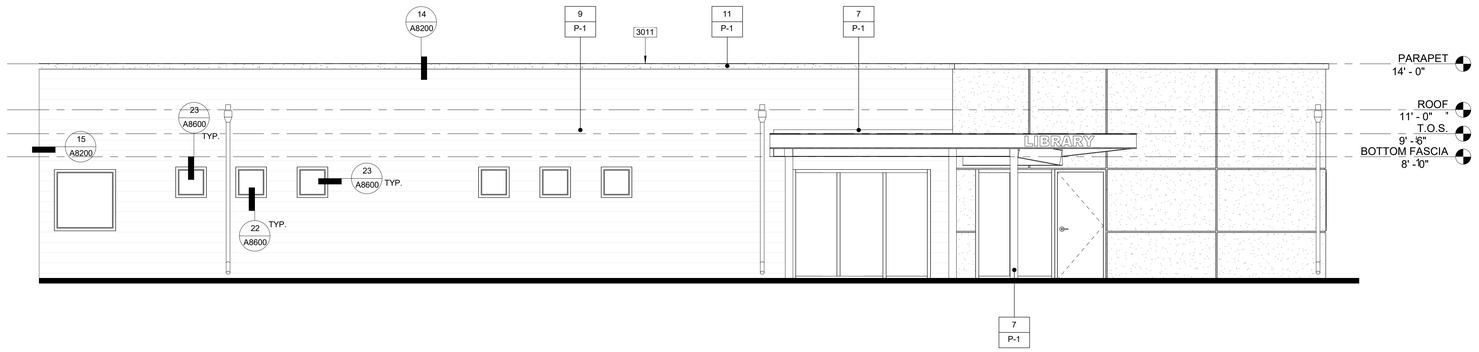
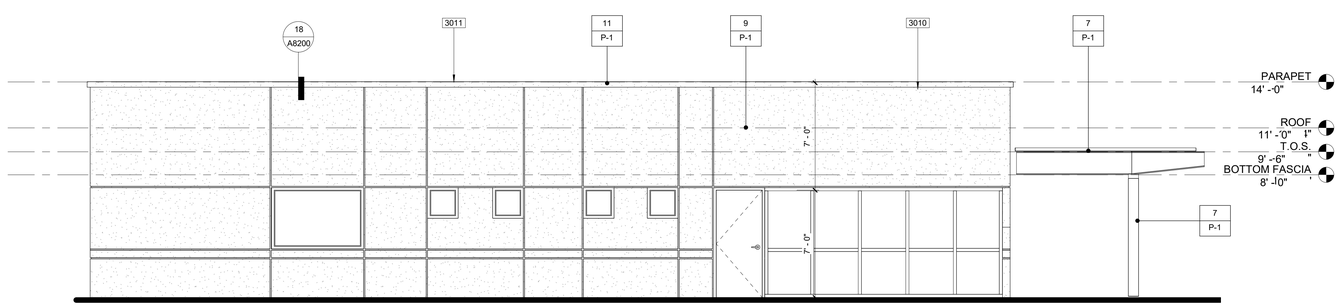


1 ADMINISTRATION EAST ELEVATION
1/4" = 1'-0"



5 ADMINISTRATION PARTIAL EAST ELEVATION
1/4" = 1'-0"



2 ADMINISTRATION SOUTH ELEVATION
1/4" = 1'-0"

3000-GENERAL NOTES

1. ALL EXTERIOR FINISHES EXPOSED TO VIEW SHALL BE PAINTED AS INDICATED ON DRAWINGS.
2. REFER TO OTHER DISCIPLINES FOR ADDITIONAL INFORMATION AND DEVICES NOT SHOWN.

MATERIAL & FINISH DESIGNATION

NOTE: REFER TO SPECIFICATION SECTION **09 06 00** COLORS & FINISHES

MATERIAL DESIGNATION
COLOR / FINISH DESIGNATION

MATERIAL DESIGNATION

1. (E) DOOR
2. (E) EXTERIOR CEMENT PLASTER
3. (E) COMPOSITE ROOFING
4. SECTIONAL ROLL-UP DOOR
5. ALUMINUM DOOR FRAME
6. ALUMINUM WINDOW FRAME
7. STRUCTURAL STEEL
8. FASCIA
9. EXTERIOR CEMENT PLASTER
10. ELECTRICAL/MECHANICAL EQUIPMENT
11. PARAPET CAP

COLOR / FINISH DESIGNATION

P-1 PAINTED
P-2 INTERGRAL COLOR

KEYNOTES

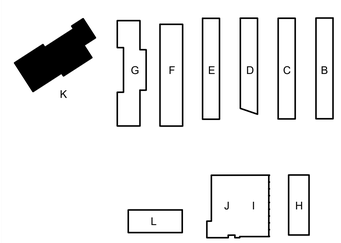
3010 STEEL DECK, SEE STRUCTURAL, PREP FOR PAINT.
3011 PARAPET CAP, SEE DETAILS 14 AND 18/A8200

LEGEND

PLASTER FINISH, BY MODULAR MFR, G.C. TO PROP FOR PAINT

METAL SIDING, BY G.C., FACTORY FINISH

KEY PLAN



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ISSUE DATE:	08/19/2019

SHEET TITLE

ADMINISTRATION EXTERIOR ELEVATIONS

SHEET NUMBER

PHASE III

A3001

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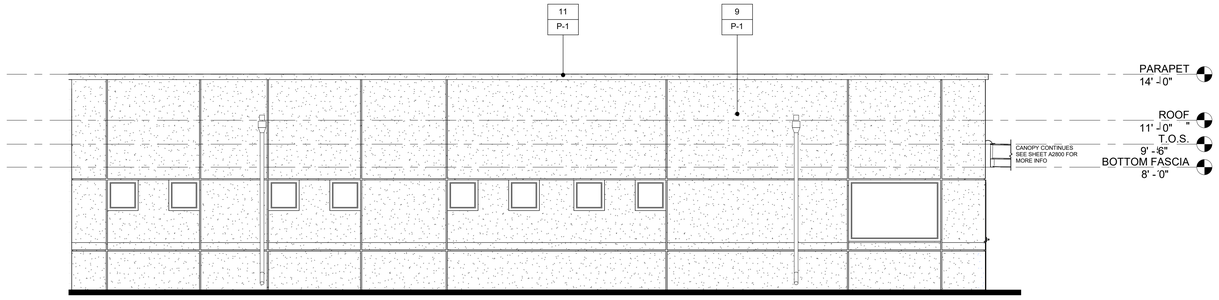
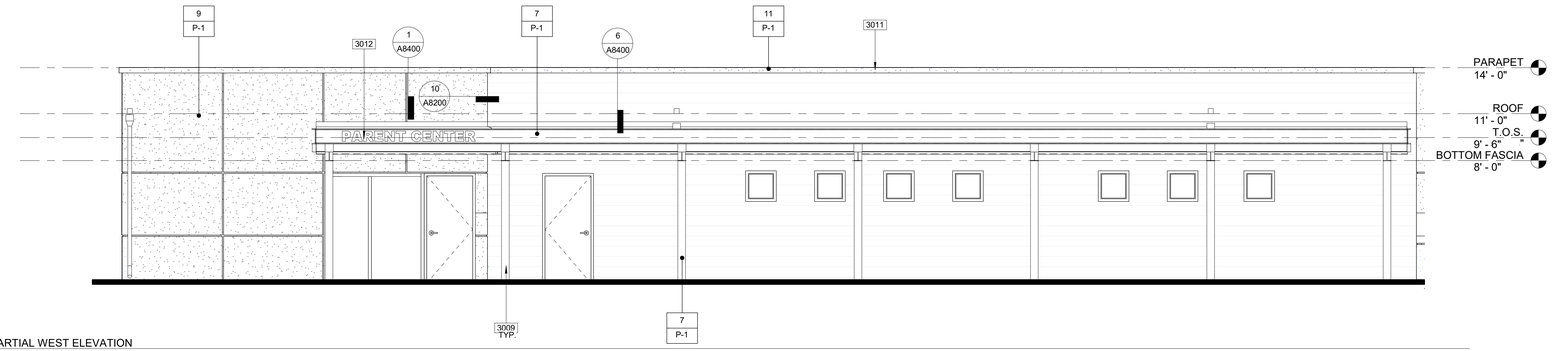
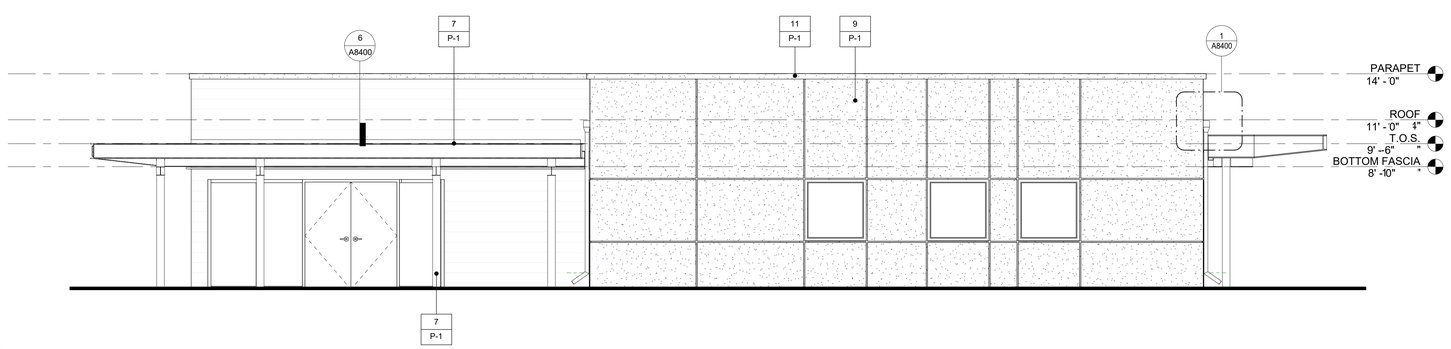


1 ADMINISTRATION WEST ELEVATION
1/4" = 1'-0"



3 ADMINISTRATION PARTIAL WEST ELEVATION
1/4" = 1'-0"



2 ADMINISTRATION NORTH ELEVATION
1/4" = 1'-0"

3000-GENERAL NOTES

1. ALL EXTERIOR FINISHES EXPOSED TO VIEW SHALL BE PAINTED AS INDICATED ON DRAWINGS.
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MATERIAL & FINISH DESIGNATION

NOTE: REFER TO SPECIFICATION SECTION **09 06 00** COLORS & FINISHES

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COLOR / FINISH DESIGNATION

P-1 PAINTED
P-2 INTERGRAL COLOR

KEYNOTES

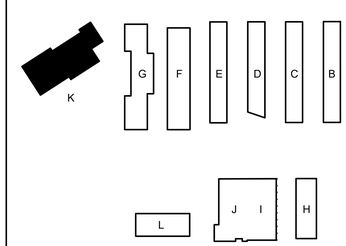
3009 STEEL COLUMN, SEE STRUCTURAL, PREP FOR PAINT.
3011 PARAPET CAP, SEE DETAILS 14 AND 18/A8200
3012 12" HIGH EXTRUED LETTERING PER DETAIL 15/A8400

LEGEND

PLASTER FINISH, BY MODULAR MFR, G.C. TO PROP FOR PAINT

METAL SIDING, BY G.C., FACTORY FINISH

KEY PLAN



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ADMINISTRATION EXTERIOR ELEVATIONS

SHEET NUMBER

PHASE III

A3002

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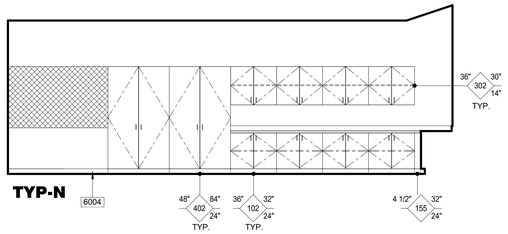

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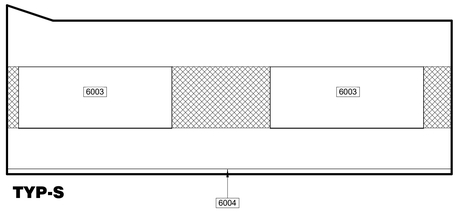
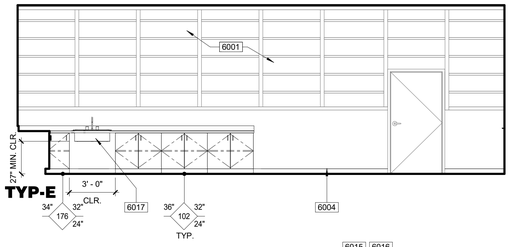


TYP-S



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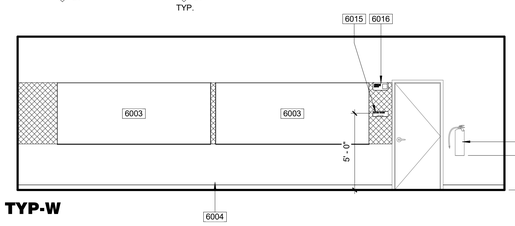

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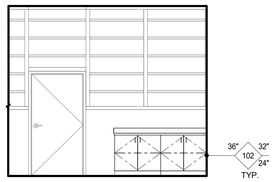
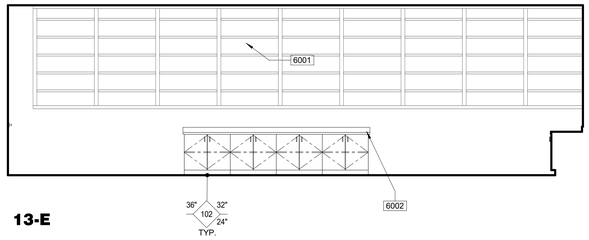


PARTIAL 14-E

BULDING B, C, & D - ROOM 1-10 & 14



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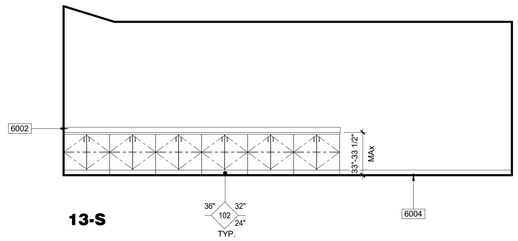

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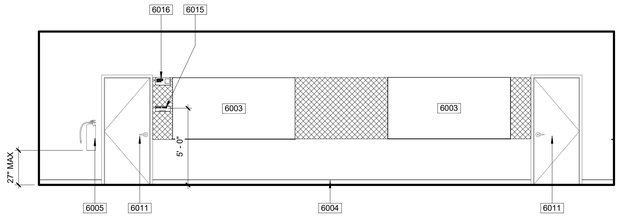

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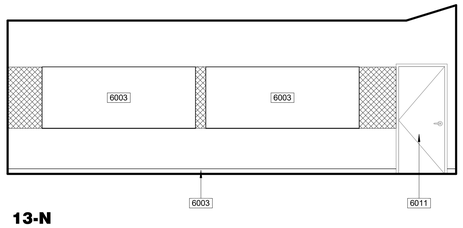

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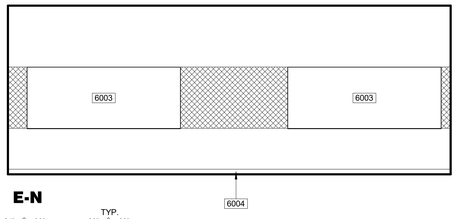
BULDING D - ROOM 13



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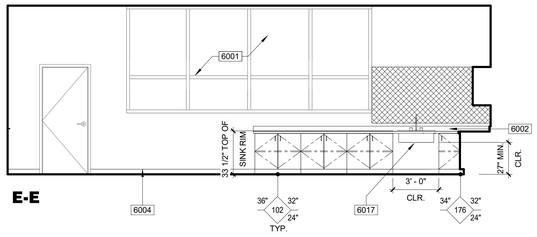

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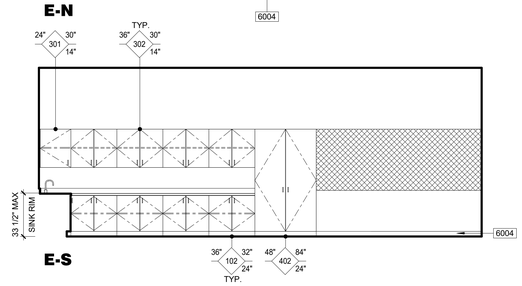

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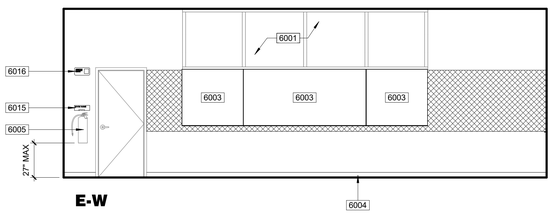

E-W

BULDING E - TYPICAL CLASSROOM (15-19)

INTERIOR ELEVATIONS

0 2' 4' 8'

6000-GENERAL NOTES

1. PROVIDE SOLID BACKING IN WALL AS PER DETAIL 21/A8500 AT ALL LOCATIONS OF WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO CABINETRY, TOILET ACCESSORIES, OWNER PROVIDED ACCESSORIES, ELECTRICAL AND FIRE ALARM DEVICES, AND BRACKETS FOR WALL MOUNTED EQUIPMENT.
2. REFER TO DETAILS 2/A8500 AND 11/A8500 FOR MOUNTING HEIGHTS OF TOILET ACCESSORIES AND PLUMBING FIXTURES.
3. WALL MOUNTED ELECTRICAL ITEMS ARE SHOWN ON THIS DRAWING ONLY WHERE PLACEMENT IS CRITICAL TO VISUAL APPEARANCE. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL RECEPTACLES, SWITCHES, AND OTHER WALL MOUNTED ELECTRICAL DEVICES NOT SHOWN ON THIS DRAWING.
4. REFER TO FLOOR PLANS AND WINDOW SCHEDULES FOR MOUNTING HEIGHTS OF WINDOWS.

6000 - KEYNOTES

6001	(E) WINDOWS TO REMAIN
6002	COUNTER AND BACKSPLASH
6003	VISUAL DISPLAY UNIT, SEE DETAIL 7/A8500 FOR ANCHORAGE
6004	4" TOP SET BASE, VINYL
6005	VERIFY IF (E) FIRE EXTINGUISHER IS COMPLIANT, PROVIDE UL-RATED 2-A WITH SLB CAP, MIN.
6011	(E) DOOR TO REMAIN
6015	EXIT SIGNAGE PER DETAIL 8/A8500
6016	ASSISTIVE LEARNING DEVICE SIGNAGE PER DETAIL 26/A8500
6017	SEE DETAIL 23/A8500 FOR INFORMATION ON SINK IN CASEWORK

LEGEND

(E) WALL FINISH. PATCH AND REPAIR WALL SURFACE. PREP FOR PAINT U.O.N.	NEW OR PATCHED WALL SURFACE GYPSUM BD ENAMEL PAINT U.O.N.
TACKABLE WALL SYSTEM	W"◇H" W## D" CASEWORK TAG

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Where The Child Comes First

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PROJECT NO:	118934
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ISSUE DATE:	08/19/2019

SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

PHASE III

A6000

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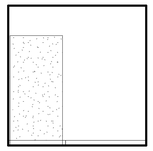

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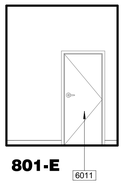

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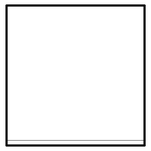

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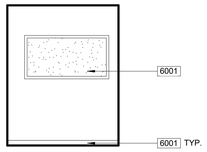
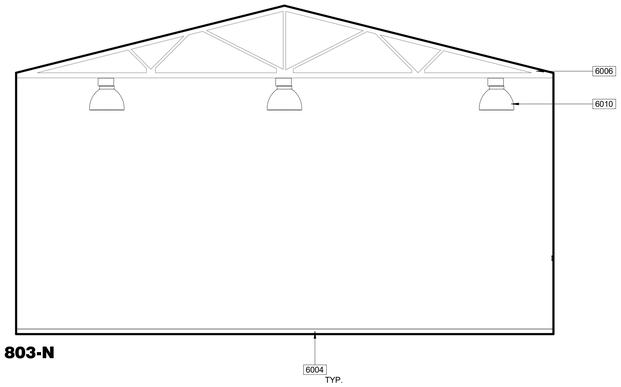


801-W

BULDING H - ROOM 801 CUSTODIAN



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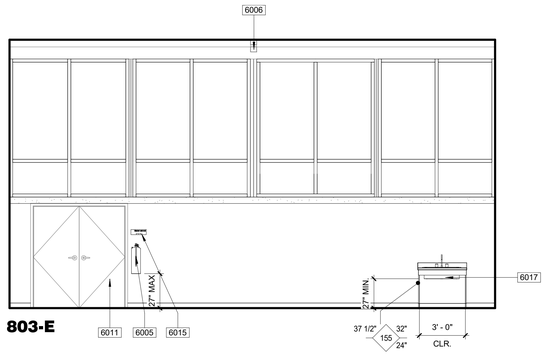

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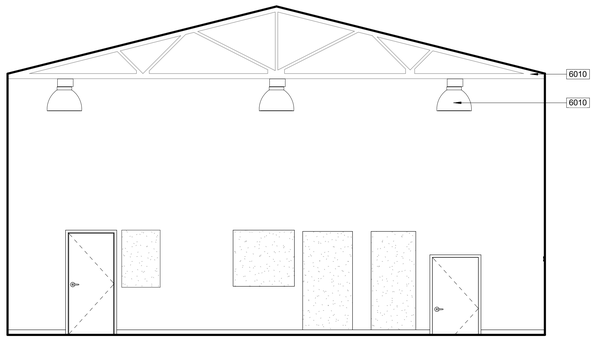

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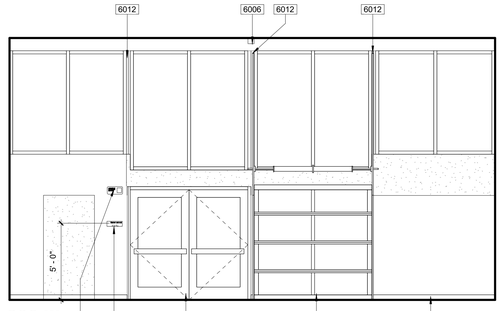

803-W

BULDING H - ROOM 803 MULTIPURPOSE ROOM

INTERIOR ELEVATIONS

0 2" 4" 8"

6000-GENERAL NOTES

1. PROVIDE SOLID BACKING IN WALL AS PER DETAIL 21/A8500 AT ALL LOCATIONS OF WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO CABINETRY, TOILET ACCESSORIES, OWNER PROVIDED ACCESSORIES, ELECTRICAL AND FIRE ALARM DEVICES, AND BRACKETS FOR WALL MOUNTED EQUIPMENT.
2. REFER TO DETAILS 2/A8500 AND 11/A8500 FOR MOUNTING HEIGHTS OF TOILET ACCESSORIES AND PLUMBING FIXTURES.
3. WALL MOUNTED ELECTRICAL ITEMS ARE SHOWN ON THIS DRAWING ONLY WHERE PLACEMENT IS CRITICAL TO VISUAL APPEARANCE. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL RECEPTACLES, SWITCHES, AND OTHER WALL MOUNTED ELECTRICAL DEVICES NOT SHOWN ON THIS DRAWING.
4. REFER TO FLOOR PLANS AND WINDOW SCHEDULES FOR MOUNTING HEIGHTS OF WINDOWS.

6000 - KEYNOTES

6001	(E) WINDOWS TO REMAIN
6004	4" TOP SET BASE, VINYL
6005	VERIFY IF (E) FIRE EXTINGUISHER IS COMPLIANT, PROVIDE UL-RATED 2-A WITH 5LB CAP, MIN.
6006	(E) TRUSS TO REMAIN
6008	ROLL UP DOOR, SEE DOOR SCHEDULE
6009	DOUBLE DOOR, SEE DOOR SCHEDULE
6010	(E) LIGHT FIXTURE TO REMAIN
6011	(E) DOOR TO REMAIN
6012	(E) STEEL COLUMN TO REMAIN
6015	EXIT SIGNAGE PER DETAIL 8/A8500
6016	ASSISTIVE LEARNING DEVICE SIGNAGE PER DETAIL 26/A8500
6017	SEE DETAIL 23/A8500 FOR INFORMATION ON SINK IN CASEWORK

LEGEND

(E) WALL FINISH. PATCH AND REPAIR WALL SURFACE, PREP FOR PAINT U.O.N.	NEW OR PATCHED WALL SURFACE GYPSUM BD ENAMEL PAINT U.O.N.
TACKABLE WALL SYSTEM	W" H" WIP D" CASEWORK TAG

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ISSUE DATE:	08/19/2019

SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

PHASE III

A6001

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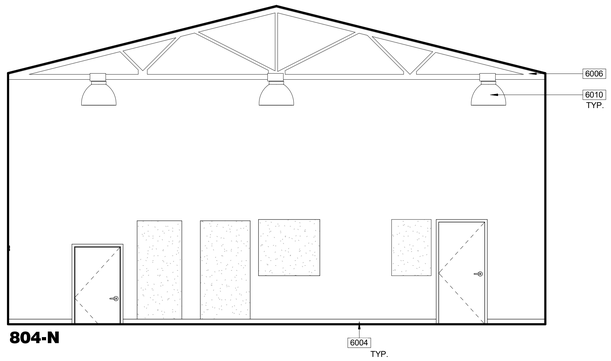

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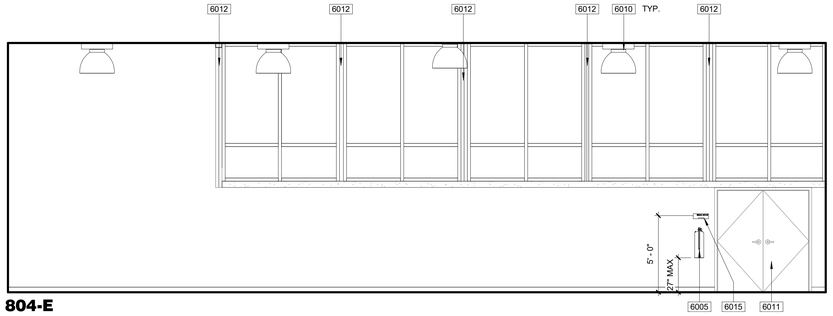

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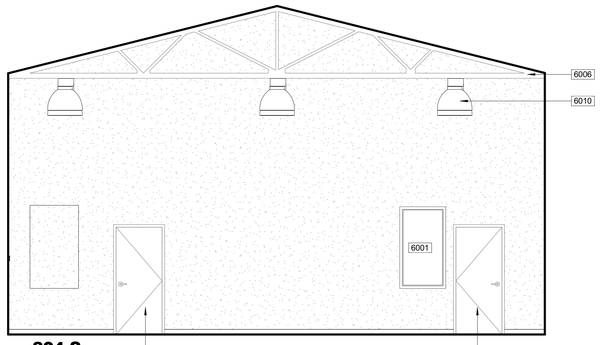

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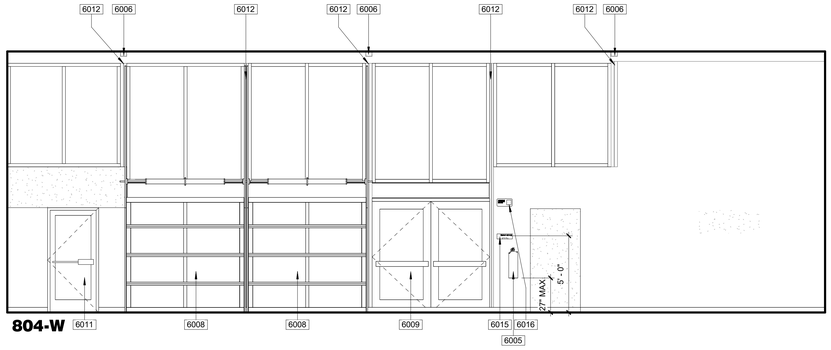
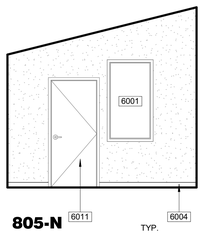


804-W

BULDING H - ROOM 804 MULTIPURPOSE ROOM



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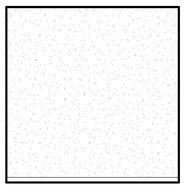

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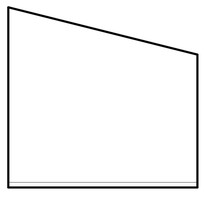

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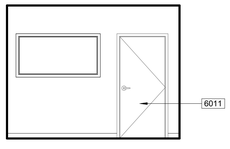

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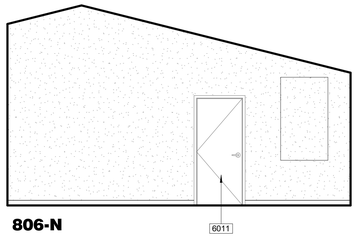
BULDING H - ROOM 805 OFFICE



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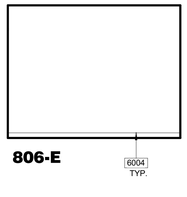

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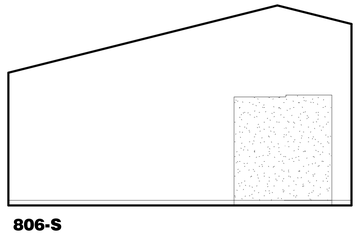

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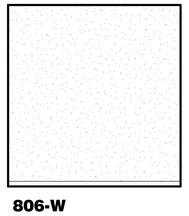

806-W

BULDING H - ROOM 806 STORAGE

INTERIOR ELEVATIONS

0 2" 4" 8"

6000-GENERAL NOTES

1. PROVIDE SOLID BACKING IN WALL AS PER DETAIL 21/A8500 AT ALL LOCATIONS OF WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO CABINETRY, TOILET ACCESSORIES, OWNER PROVIDED ACCESSORIES, ELECTRICAL AND FIRE ALARM DEVICES, AND BRACKETS FOR WALL MOUNTED EQUIPMENT.
2. REFER TO DETAILS 2/A8500 AND 11/A8500 FOR MOUNTING HEIGHTS OF TOILET ACCESSORIES AND PLUMBING FIXTURES.
3. WALL MOUNTED ELECTRICAL ITEMS ARE SHOWN ON THIS DRAWING ONLY WHERE PLACEMENT IS CRITICAL TO VISUAL APPEARANCE. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL RECEPTACLES, SWITCHES, AND OTHER WALL MOUNTED ELECTRICAL DEVICES NOT SHOWN ON THIS DRAWING.
4. REFER TO FLOOR PLANS AND WINDOW SCHEDULES FOR MOUNTING HEIGHTS OF WINDOWS.

6000 - KEYNOTES

6001	(E) WINDOWS TO REMAIN
6004	4" TOP SET BASE, VINYL
6005	VERIFY IF (E) FIRE EXTINGUISHER IS COMPLIANT, PROVIDE UL-RATED 2-A WITH 5LB CAP, MIN.
6006	(E) TRUSS TO REMAIN
6008	ROLL UP DOOR, SEE DOOR SCHEDULE
6009	DOUBLE DOOR, SEE DOOR SCHEDULE
6010	(E) LIGHT FIXTURE TO REMAIN
6011	(E) DOOR TO REMAIN
6012	(E) STEEL COLUMN TO REMAIN
6015	EXIT SIGNAGE PER DETAIL 8/A8500
6016	ASSISTIVE LEARNING DEVICE SIGNAGE PER DETAIL 26/A8500

LEGEND

(E) WALL FINISH. PATCH AND REPAIR WALL SURFACE, PREP FOR PAINT U.O.N.	NEW OR PATCHED WALL SURFACE GYPSUM BD ENAMEL PAINT U.O.N.
TACKABLE WALL SYSTEM	W" H" W# D" CASEWORK TAG

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INTERIOR ELEVATIONS

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PHASE III

A6002

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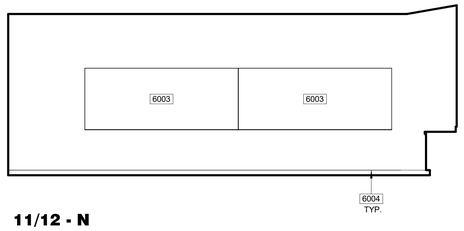
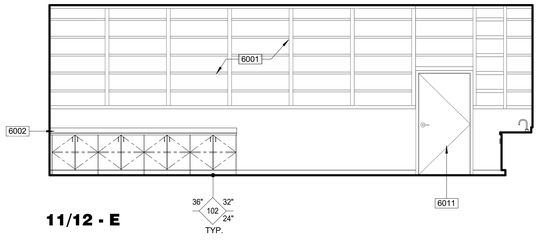
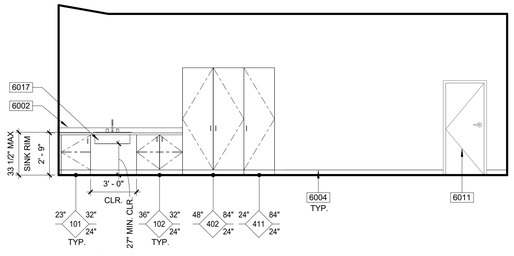


11/12 - N



11/12 - E



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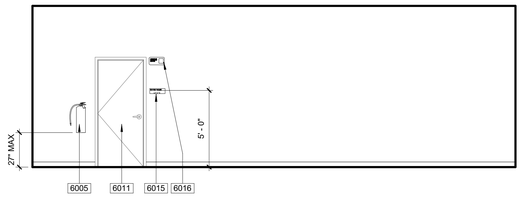

11/12 - W

BUILDING D - ROOM 11 & 12

INTERIOR ELEVATIONS

0 2" 4" 8"

6000-GENERAL NOTES

1. PROVIDE SOLID BACKING IN WALL AS PER DETAIL 21/A8500 AT ALL LOCATIONS OF WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO CABINETRY, TOILET ACCESSORIES, OWNER PROVIDED ACCESSORIES, ELECTRICAL AND FIRE ALARM DEVICES, AND BRACKETS FOR WALL MOUNTED EQUIPMENT.
2. REFER TO DETAILS 2/A8500 AND 11/A8500 FOR MOUNTING HEIGHTS OF TOILET ACCESSORIES AND PLUMBING FIXTURES.
3. WALL MOUNTED ELECTRICAL ITEMS ARE SHOWN ON THIS DRAWING ONLY WHERE PLACEMENT IS CRITICAL TO VISUAL APPEARANCE. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL RECEPTACLES, SWITCHES, AND OTHER WALL MOUNTED ELECTRICAL DEVICES NOT SHOWN ON THIS DRAWING.
4. REFER TO FLOOR PLANS AND WINDOW SCHEDULES FOR MOUNTING HEIGHTS OF WINDOWS.

6000 - KEYNOTES

6001	(E) WINDOWS TO REMAIN
6002	COUNTER AND BACKSPLASH
6003	VISUAL DISPLAY UNIT, SEE DETAIL 7/A8500 FOR ANCHORAGE
6004	4" TOP SET BASE, VINYL
6005	VERIFY IF (E) FIRE EXTINGUISHER IS COMPLIANT, PROVIDE UL-RATED 2-A WITH SLB CAP, MIN.
6011	(E) DOOR TO REMAIN
6015	EXIT SIGNAGE PER DETAIL 8/A8500
6016	ASSISTIVE LEARNING DEVICE SIGNAGE PER DETAIL 26/A8500
6017	SEE DETAIL 23/A8500 FOR INFORMATION ON SINK IN CASEWORK

LEGEND

(E) WALL FINISH. PATCH AND REPAIR WALL SURFACE, PREP FOR PAINT U.O.N.	NEW OR PATCHED WALL SURFACE GYPSUM BD ENAMEL PAINT U.O.N.
TACKABLE WALL SYSTEM	W" H" W## D" CASEWORK TAG

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

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LICENSED ARCHITECT
RICHARD M. LO
No. C18079
REN. 10/21
STATE OF CALIFORNIA

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT
"Where The Child Comes First"

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	08/19/2019

SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

PHASE III

A6004

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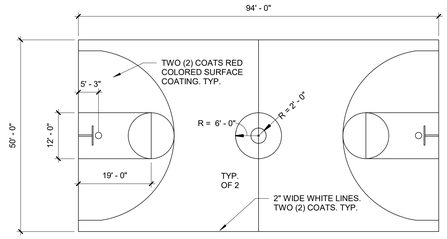
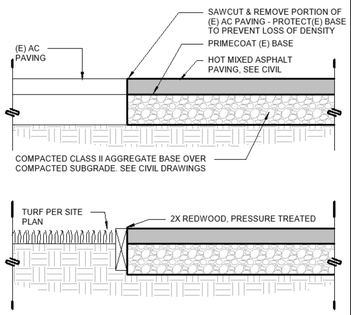
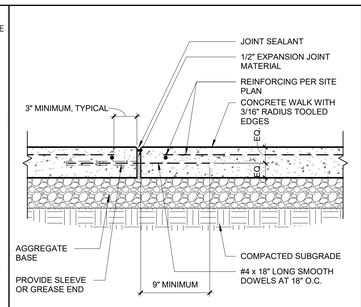


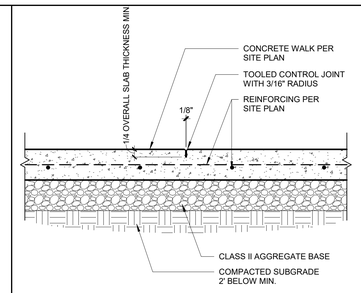
30 BASKETBALL COURT 1/16" = 1'-0"



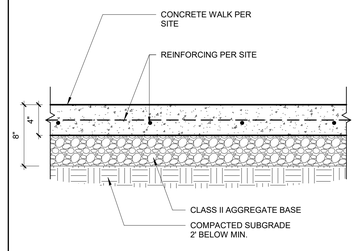
20 AC TO (E) PAVING 1 1/2" = 1'-0"



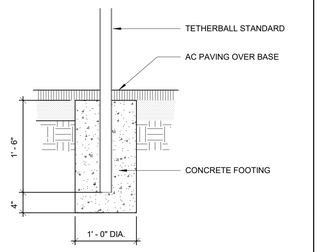
15 EXPANSION JOINT 1 1/2" = 1'-0"



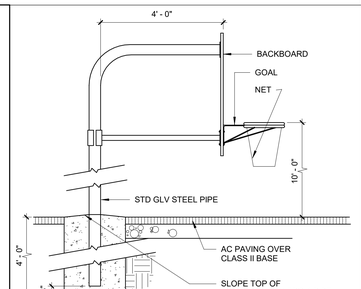
10 CONTROL JOINT 1 1/2" = 1'-0"



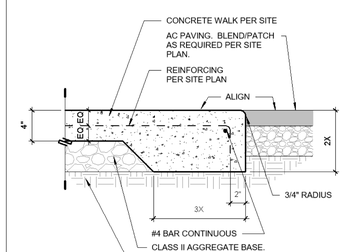
05 CONC WALKWAY 1 1/2" = 1'-0"



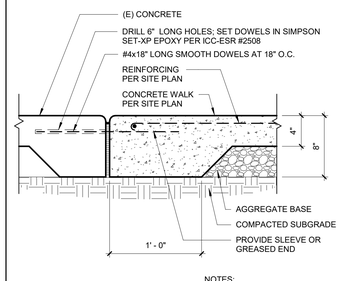
29 TETHERBALL POST 1" = 1'-0"



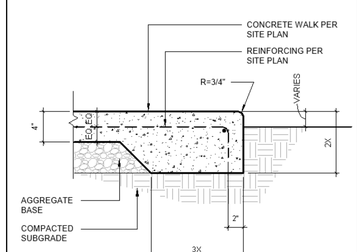
24 B-BALL BCKSTP. 1/2" = 1'-0"



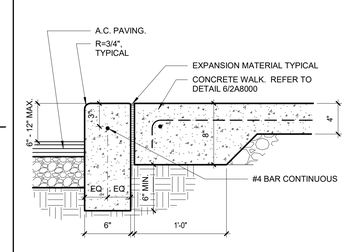
19 WALK @ AC PAVING 1 1/2" = 1'-0"



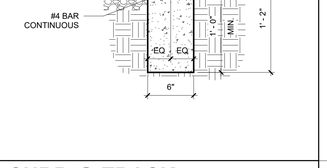
14 CONC. TO (E) CONC. 1 1/2" = 1'-0"



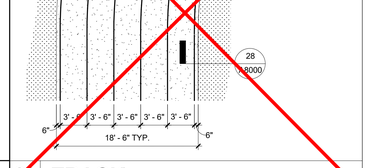
09 WALKWAY EDGE 1 1/2" = 1'-0"



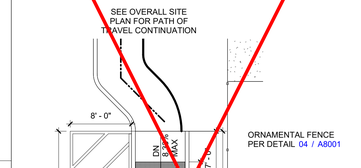
04 CONCRETE CURB 1 1/2" = 1'-0"



28 CURB @ TRACK 1 1/2" = 1'-0"



23 TRACK 1/8" = 1'-0"

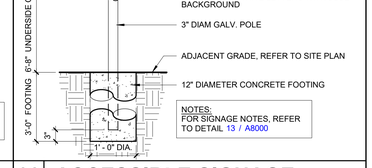


17 DROP-OFF ZONE 1/8" = 1'-0"

NOTES APPLICABLE TO SIGNAGE DETAILS 08 / A8000 & 03 / A8000

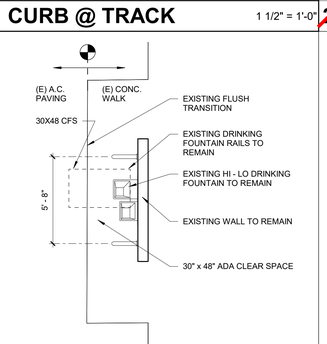
1. ALL SIGN SUBSTRATES SHALL BE 1/8" THICK REFLECTORIZED ALUMINUM
2. LETTERS AND GRAPHICS SHALL BE SILK SCREENED REFLECTORIZED ALUMINUM.
3. ALL SIGNS SHALL BE MOUNTED WITH TAMPER PROOF SCREWS TO GALVANIZED 2" DIAMETER STANDARD STEEL PIPE. PIPE SHALL BE SHOP PRIMED AND PAINTED WITH TWO (2) COATS OF EXTERIOR ENAMEL.
4. IN LIEU OF TAMPER PROOF SCREWS, SPOT WELDING END OF BOLT AFTER NUT INSTALLATION IS ACCEPTABLE.
5. PROVIDE 3/4" RADIUS AT ALL SIGN CORNERS.
6. SIGNS SHALL BE MOUNTED IN A CONSPICUOUS LOCATION.

13 SIGNAGE NOTES 1/8" = 1'-0"

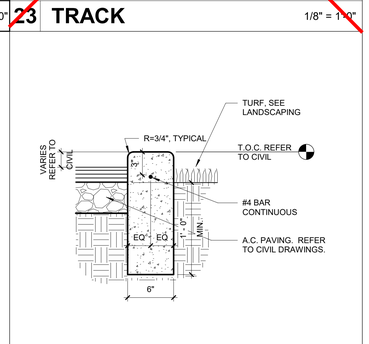


08 PARKING ENTRY SIGN 3/4" = 1'-0"

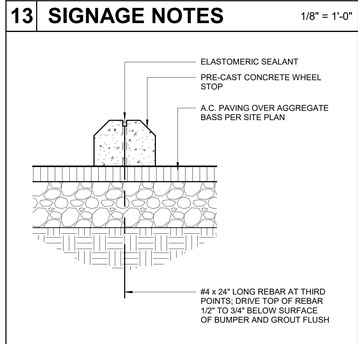
03 ACCESSIBLE SIGNAGE 3/4" = 1'-0"



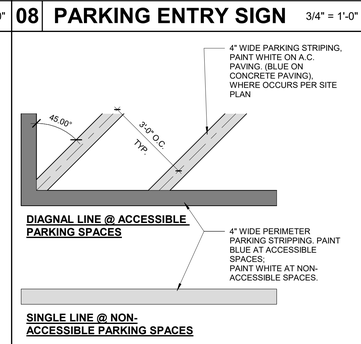
27 (E) D.F. 1/4" = 1'-0"



22 CONCRETE CURB 1 1/2" = 1'-0"

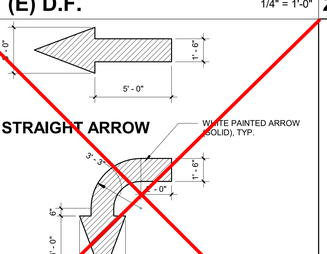


12 WHEELSTOP 1 1/2" = 1'-0"

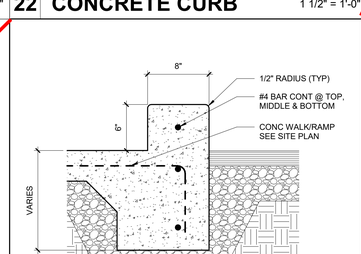


07 PARKING STRIPE 1" = 1'-0"

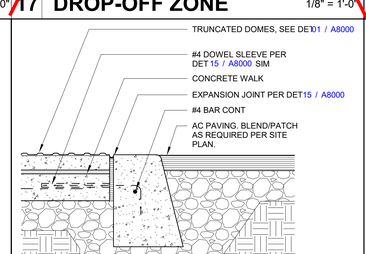
02 ISA SYMBOL 1" = 1'-0"



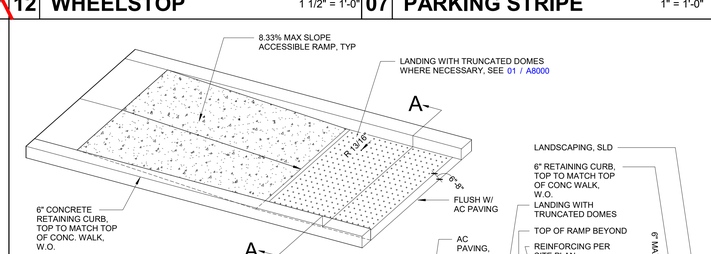
26 DIRECTIONAL 1/4" = 1'-0"



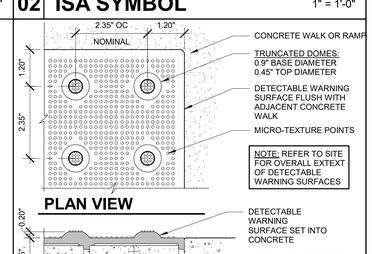
21 CURB AT RAMP 1 1/2" = 1'-0"



16 WALK @ AC PAVING 1 1/2" = 1'-0"



11 ACCESSIBLE CURB RAMP 1/8" = 1'-0"



01 TRUNCATED DOMES 6" = 1'-0"

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

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LICENSED ARCHITECT RICHARD M. LO No. C18079 REN. 10/21 STATE OF CALIFORNIA

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	11/21/2019

SHEET TITLE

SITE DETAILS

SHEET NUMBER

PHASE III

A8000

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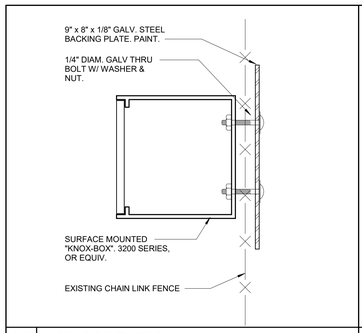
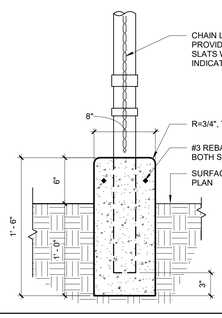
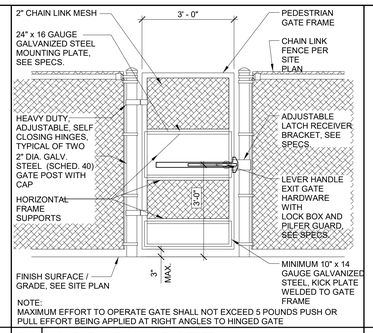


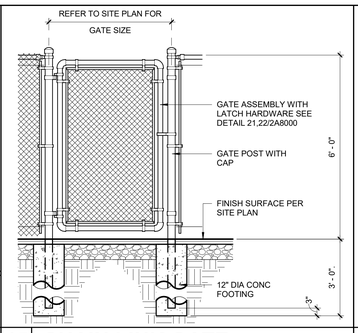
30 KNOX BOX 6" = 1'-0"



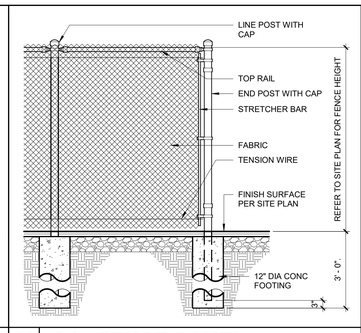
25 CONCRETE CURB 1 1/2" = 1'-0"



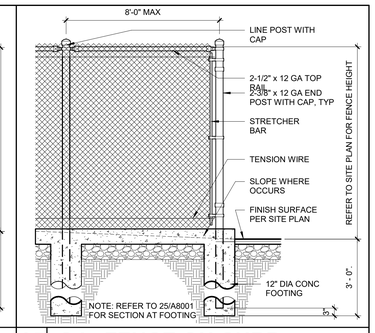
20 ACC. C.L. GATE 1/2" = 1'-0"



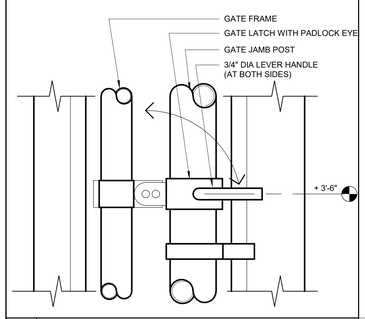
15 CHAIN LINK GATE 1/2" = 1'-0"



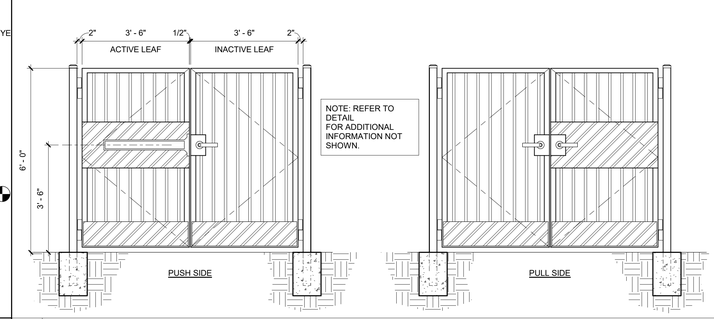
10 C.L. FENCE PANEL 1/2" = 1'-0"



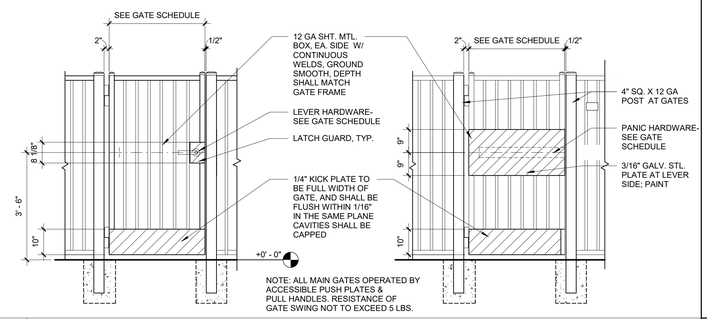
05 C.L. FENCE ON CURB 1/2" = 1'-0"



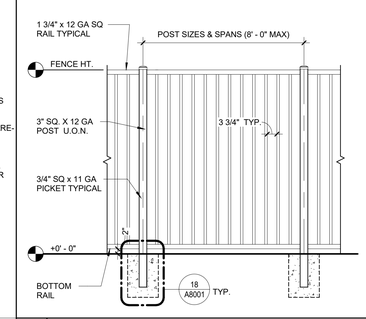
29 GATE LATCH 3" = 1'-0"



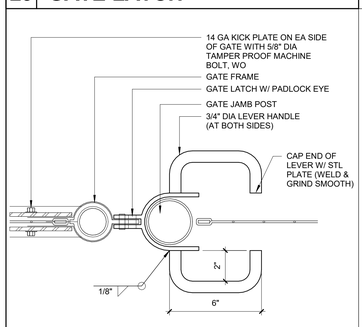
24 ORNAMENTAL METAL GATE - DOUBLE 1/2" = 1'-0"



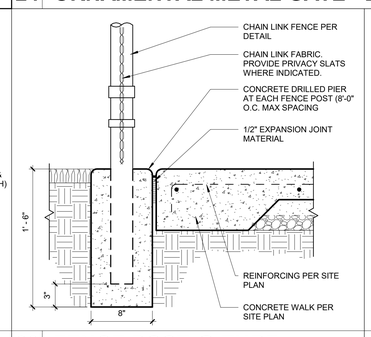
14 ORNAMENTAL METAL GATE - SINGLE 1/2" = 1'-0"



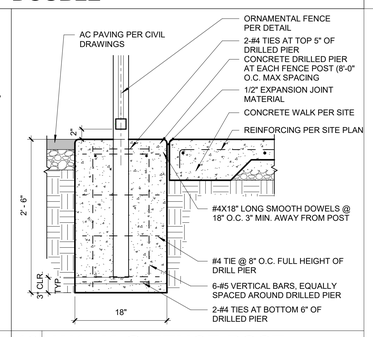
04 ORN FENCE PANEL 1/2" = 1'-0"



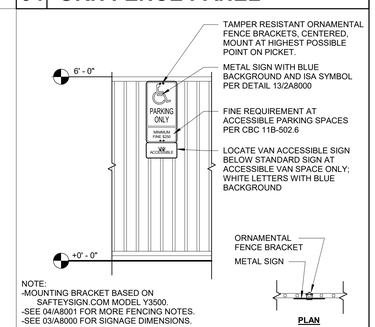
28 GATE LATCH 3" = 1'-0"



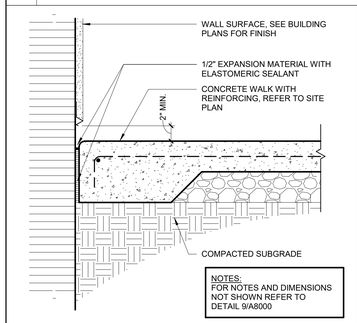
23 FENCE POST @ TURF 1 1/2" = 1'-0"



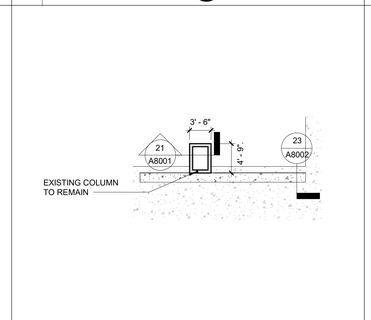
18 WALK @ FENCE POST 1" = 1'-0"



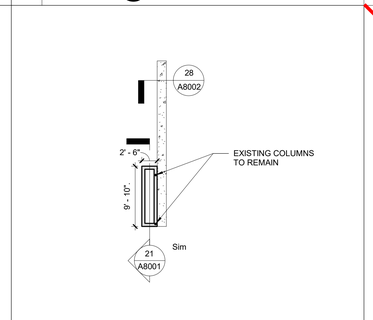
3 SIGN @ ORN. FENCE 1/2" = 1'-0"



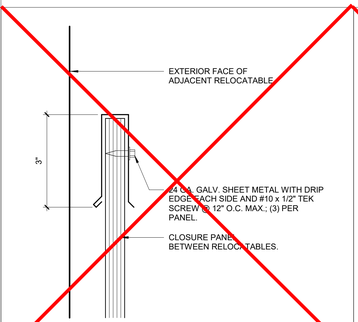
27 WALK EDGE TO BLDG. 1 1/2" = 1'-0"



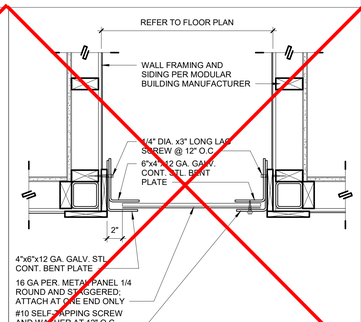
22 CONDUIT CHASE 1" = 10'-0"



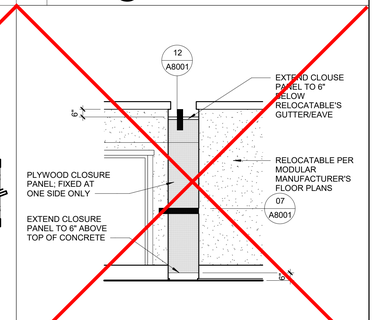
17 CONDUIT CHASE 1" = 10'-0"



12 PANEL CAP 6" = 1'-0"

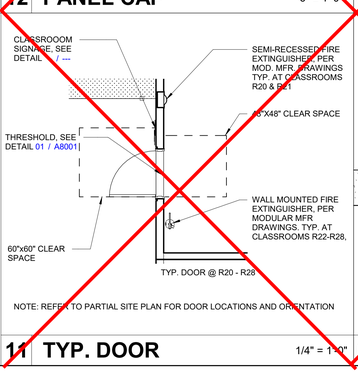


07 PANEL PLAN 1 1/2" = 1'-0"

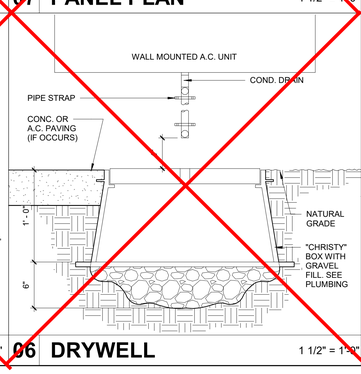


02 CLOSURE PANEL 1/4" = 1'-0"

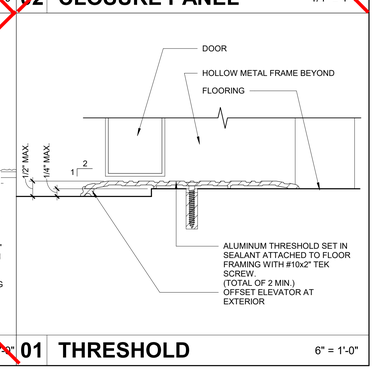
21 CHASE SECTION. 3/8" = 1'-0"



11 TYP. DOOR 1/4" = 1'-0"



06 DRYWELL 1 1/2" = 1'-0"



01 THRESHOLD 6" = 1'-0"

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SEAL

LICENSED ARCHITECT
RICHARD M. LO
No. C18079
REN. 10/21
STATE OF CALIFORNIA

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JR HIGH MODULAR CLASSROOM BUILDINGS

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	11/21/2019

SHEET TITLE

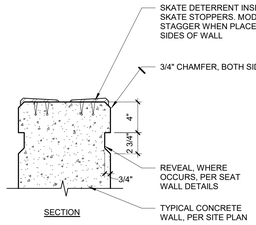
SITE DETAILS

SHEET NUMBER

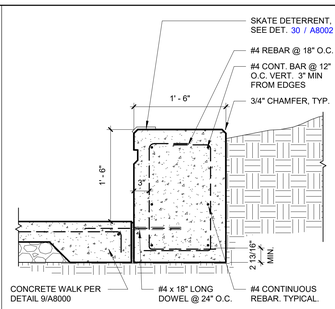
PHASE III

A8001

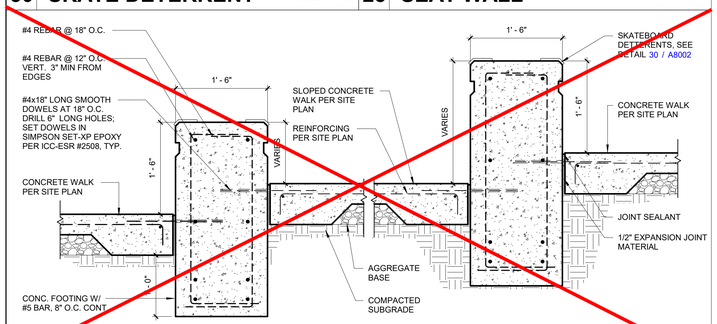
PLOT DATE: 2020-03-06 1:44:45 PM C:\Users\cmos.carpool\Documents\RFEVIT2018\ATW-18934-BessieOwensMS_Site 06-26-19_v2018_carlos.zaragoza.rvt



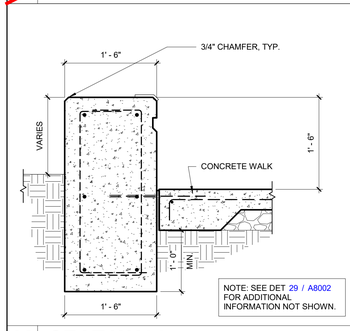
30 SKATE DETERRENT 1 1/2" = 1'-0"



25 SEAT WALL 1" = 1'-0"

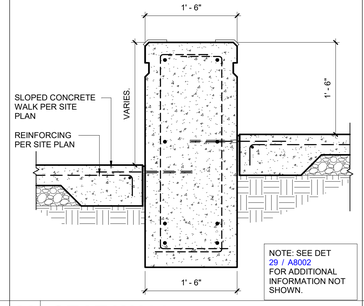


29 SEAT WALL 1" = 1'-0"



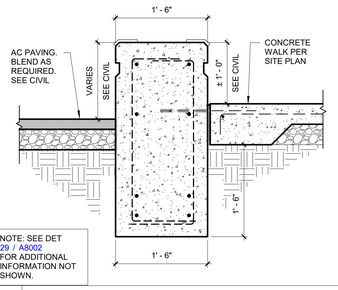
NOTE: SEE DET 29 / A8002 FOR ADDITIONAL INFORMATION NOT SHOWN.

28 SEAT WALL 1" = 1'-0"



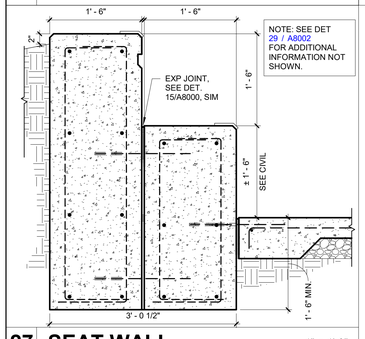
NOTE: SEE DET 29 / A8002 FOR ADDITIONAL INFORMATION NOT SHOWN.

23 SEAT WALL 1" = 1'-0"

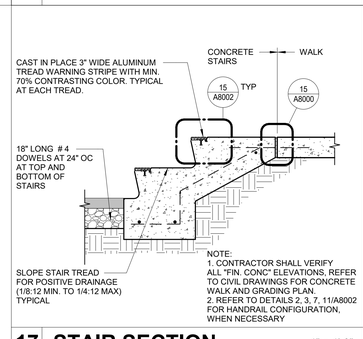


NOTE: SEE DET 29 / A8002 FOR ADDITIONAL INFORMATION NOT SHOWN.

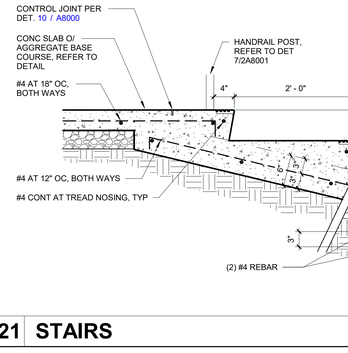
18 SEAT WALL 1" = 1'-0"



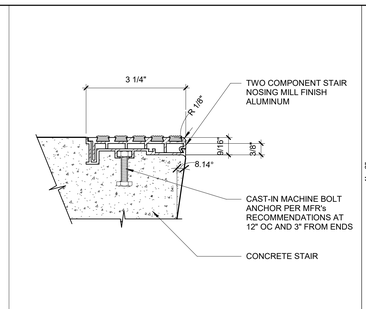
27 SEAT WALL 1" = 1'-0"



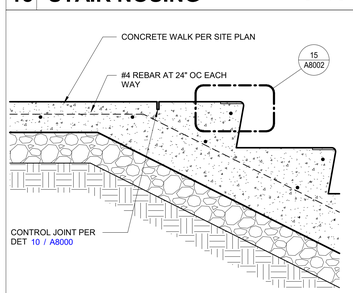
17 STAIR SECTION 1" = 1'-0"



21 STAIRS 1" = 1'-0"

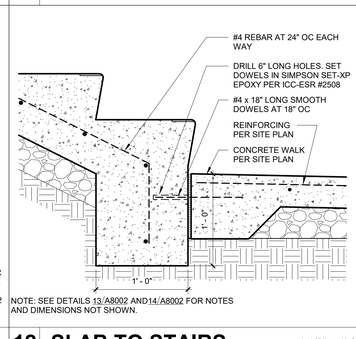


15 STAIR NOSING 6" = 1'-0"



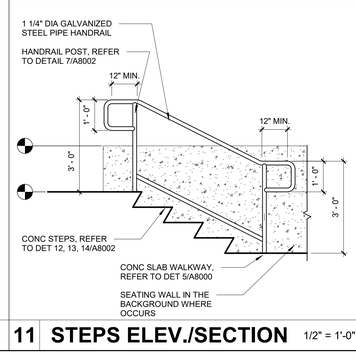
NOTE: SEE DETAILS 13/A8002 AND 12/A8002 FOR NOTES AND DIMENSIONS NOT SHOWN.

14 SLAB TO STAIRS 1 1/2" = 1'-0"

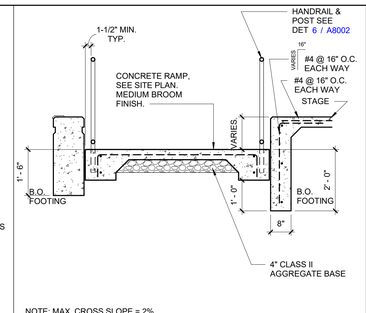


NOTE: SEE DETAILS 13/A8002 AND14/A8002 FOR NOTES AND DIMENSIONS NOT SHOWN.

12 SLAB TO STAIRS 1 1/2" = 1'-0"

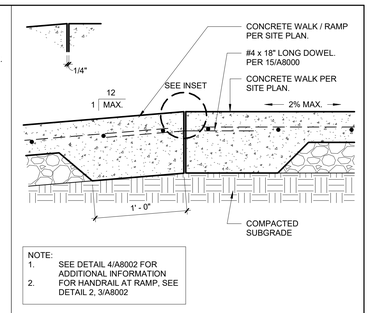


13 SLAB TO STAIRS 1 1/2" = 1'-0"



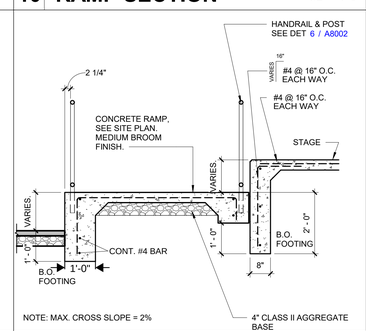
NOTE: MAX. CROSS SLOPE = 2%

10 RAMP SECTION 1/2" = 1'-0"



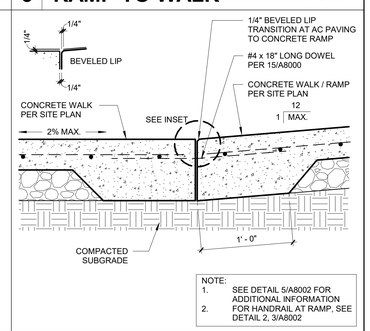
NOTE:
1. SEE DETAIL 4/A8002 FOR ADDITIONAL INFORMATION FOR HANDRAIL AT RAMP, SEE DETAIL 2, 3/A8002

5 RAMP TO WALK 1 1/2" = 1'-0"



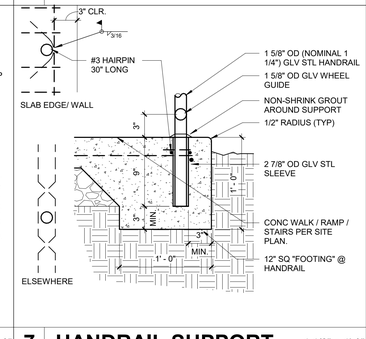
NOTE: MAX. CROSS SLOPE = 2%

09 RAMP SECTION 1/2" = 1'-0"

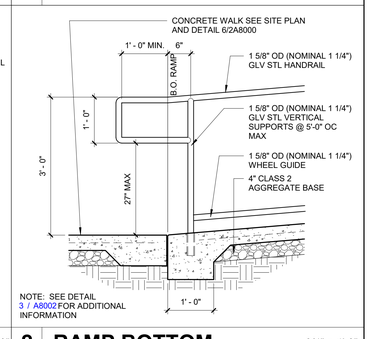


NOTE:
1. SEE DETAIL 5/A8002 FOR ADDITIONAL INFORMATION FOR HANDRAIL AT RAMP, SEE DETAIL 2, 3/A8002

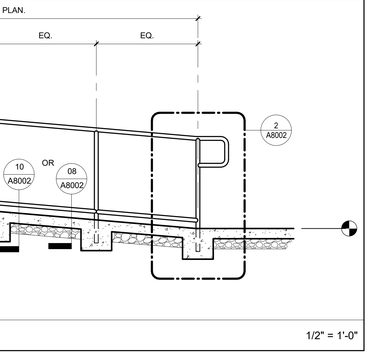
4 RAMP TO WALK 1 1/2" = 1'-0"



08 RAMP SECTION 1/2" = 1'-0"



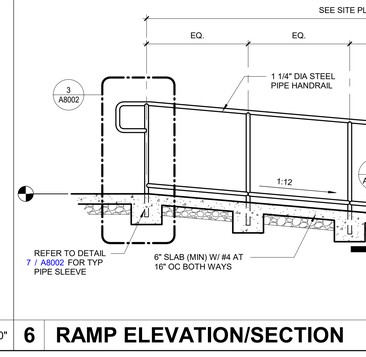
7 HANDRAIL SUPPORT 1 1/2" = 1'-0"



3 RAMP TOP 3/4" = 1'-0"

NOTE: SEE DETAIL 3 / A8002 FOR ADDITIONAL INFORMATION

2 RAMP BOTTOM 3/4" = 1'-0"



6 RAMP ELEVATION/SECTION 1/2" = 1'-0"

11 STEPS ELEV./SECTION 1/2" = 1'-0"

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SEAL

LICENSED ARCHITECT
RICHARD MELLO
No. C18079
REN. 10/21
STATE OF CALIFORNIA

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805.546.0433 fax: 805.546.0504
ibigroup.com

BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT
Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	11/21/2019

SHEET TITLE

SITE DETAILS

SHEET NUMBER

PHASE III

A8002

PLOT DATE: 2020-03-16 3:24:09 PM
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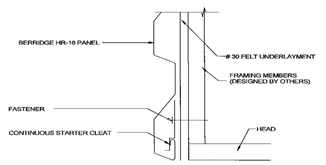
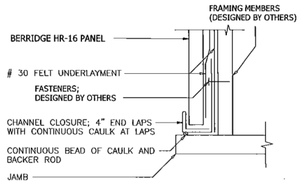
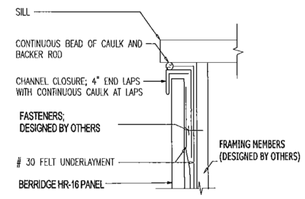


TYPICAL HEADER DETAIL



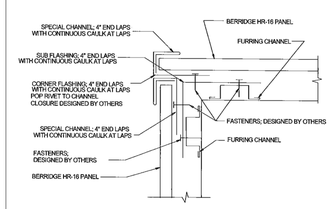
TYPICAL JAMB DETAIL



TYPICAL SILL DETAIL

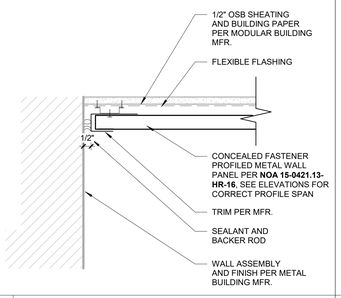
NOTE: DETAIL PROVIDED BY NOA 15-0421.13-HR-16 RERORT

1 TYPICAL MTL PANEL @ OPENING N.T.S

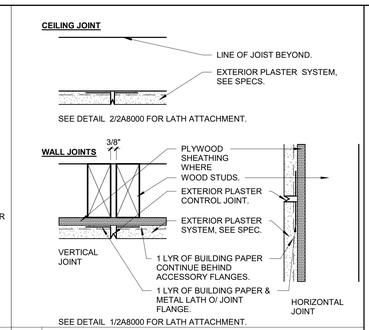


NOTE: DETAIL PROVIDED BY NOA 15-0421.13-HR-16 RERORT

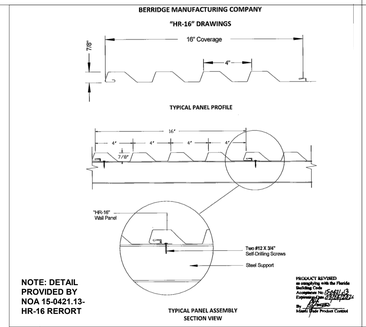
15 MTL SIDING - CORNER N.T.S.



10 METAL SIDING END N.T.S.

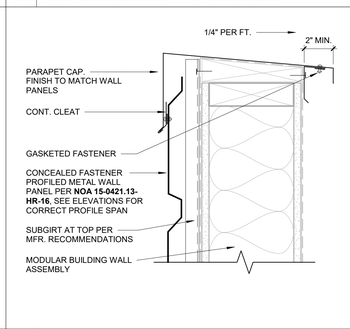


5 CONTROL JOINTS 3" = 1'-0"

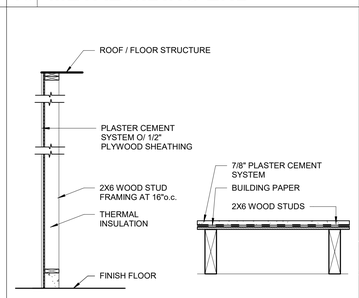


NOTE: DETAIL PROVIDED BY NOA 15-0421.13-HR-16 RERORT

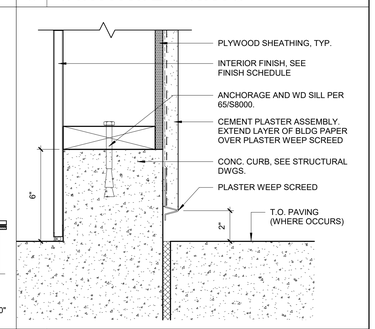
19 TYP. MTL. PANEL N.T.S



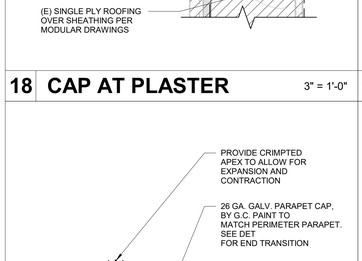
14 PARAPET CAP - MTL 3" = 1'-0"



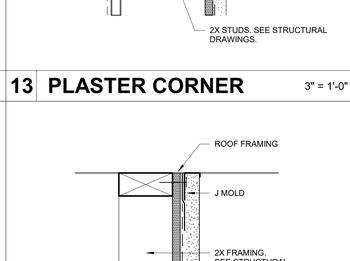
9 WALL TYPE A 1/2" = 1'-0"



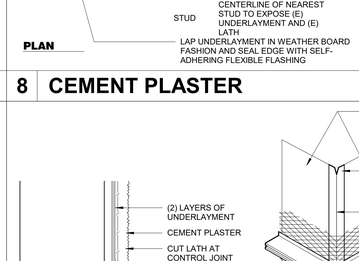
4 PLASTER CURB 3" = 1'-0"



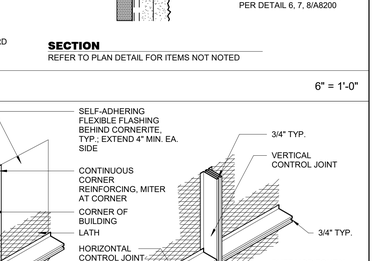
18 CAP AT PLASTER 3" = 1'-0"

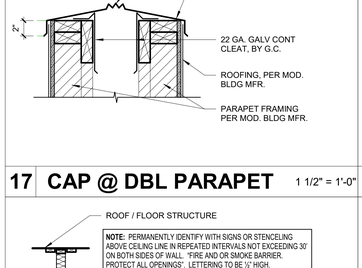


13 PLASTER CORNER 3" = 1'-0"

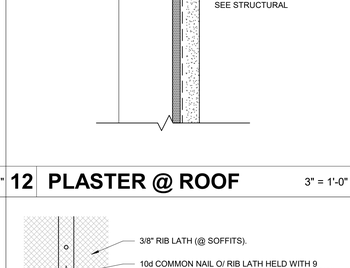


8 CEMENT PLASTER 6" = 1'-0"

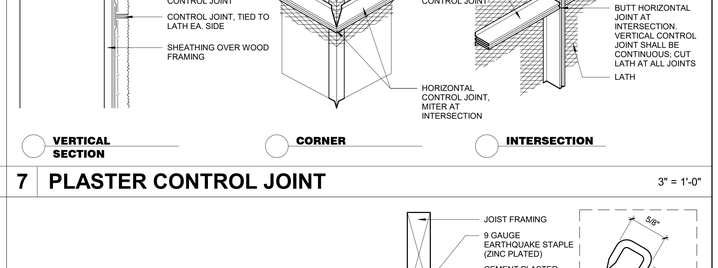




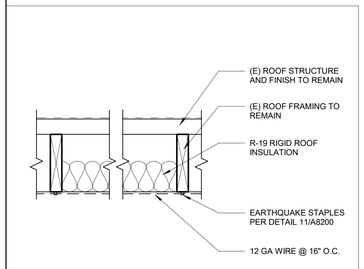
17 CAP @ DBL PARAPET 1 1/2" = 1'-0"



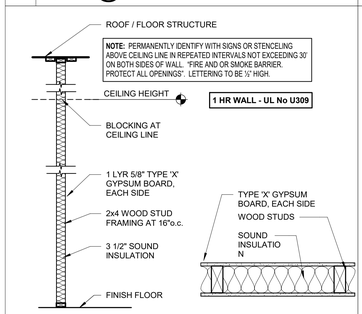
12 PLASTER @ ROOF 3" = 1'-0"



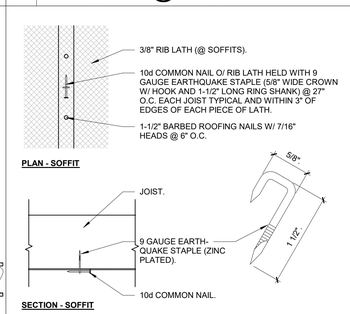
7 PLASTER CONTROL JOINT 3" = 1'-0"



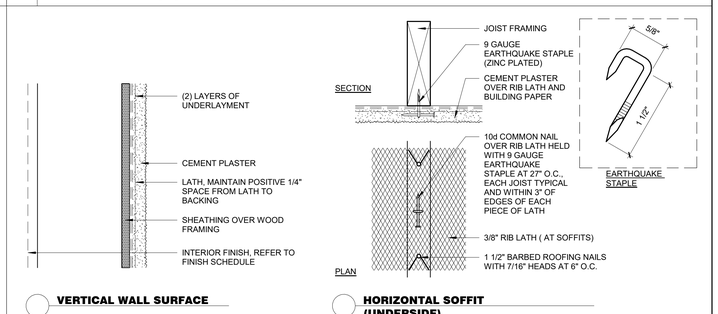
26 CEILING INSULATION 1 1/2" = 1'-0"



16 INTERIOR 1HR RATED 1/2" = 1'-0"



11 LATH ATTACHMENT 3" = 1'-0"



6 LATH NAILING 3" = 1'-0"

AGENCY INFORMATION:

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APP. 03-120102 INC:
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BAKERSVILLE CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	08/19/2019

SHEET TITLE

WALL DETAILS

SHEET NUMBER

PHASE III

A8200

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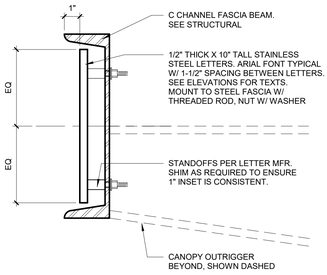
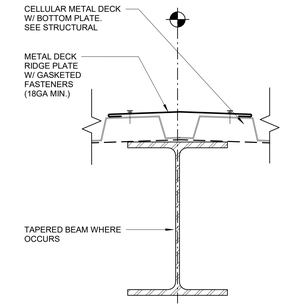
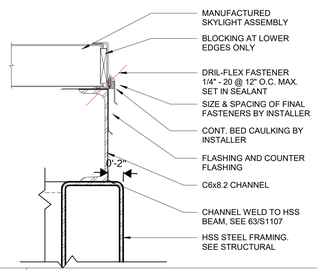


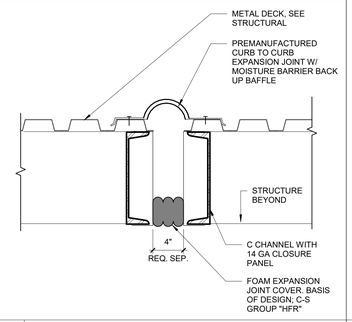
15 STANDOFF LETTER 3" = 1'-0"



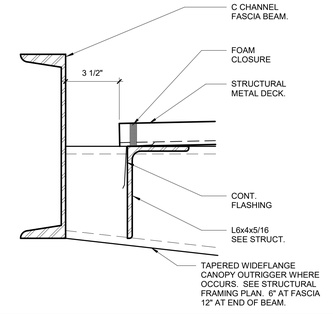
5 CANOPY RIDGE 3" = 1'-0"



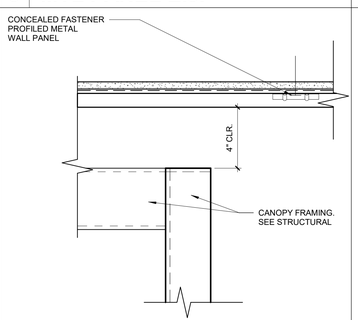
14 CANOPY SKYLIGHT 3" = 1'-0"



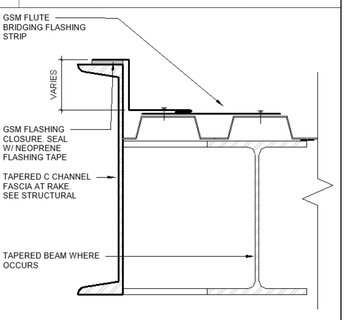
9 MTL PANEL E.J. 1 1/2" = 1'-0"



4 CANOPY FASCIA TYP 3" = 1'-0"

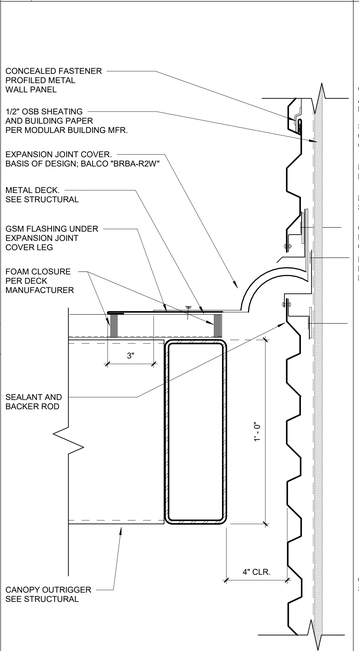


8 EJ PLAN 3" = 1'-0"

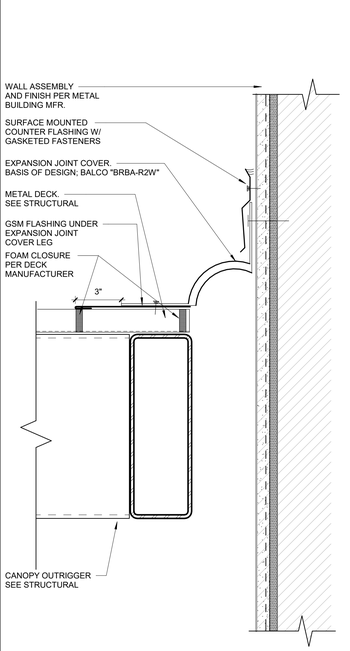


3 CANOPY RAKE TYP 3" = 1'-0"

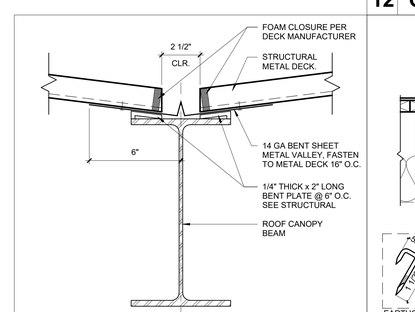
12 CANOPY SKYLIGHT 3" = 1'-0"



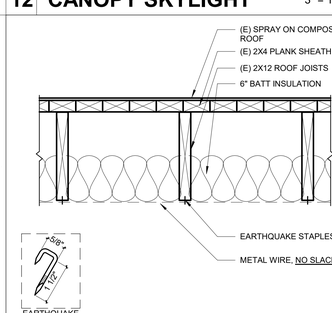
6 EXP. JOINT @ MTL 3" = 1'-0"



1 EXP. JOINT @ PLSTR 3" = 1'-0"



16 CANOPY VALLEY 3" = 1'-0"



11 INSL. @ (E) ROOFING 1 1/2" = 1'-0"

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OPSC or OSHPD PROJ. NO:	
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SHEET TITLE

CANOPY/ROOF DETAILS

SHEET NUMBER

PHASE III

A8400

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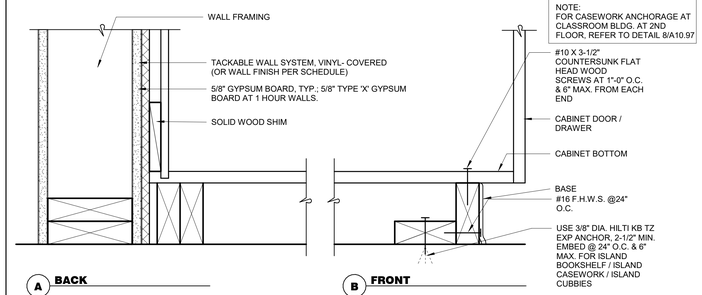
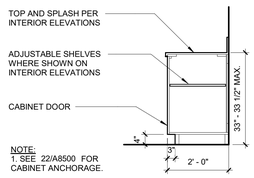
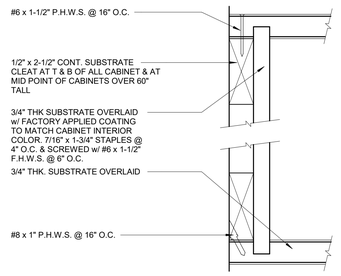


30 BASE CABINET ANCHORAGE

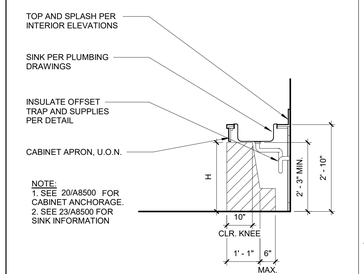
3" = 1'-0"





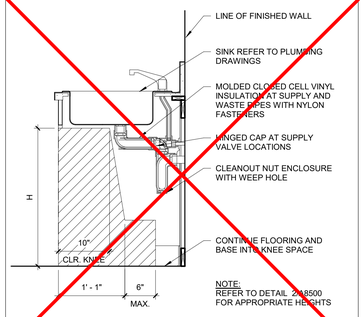
29 BASE CAB PROFILE

1/2" = 1'-0"



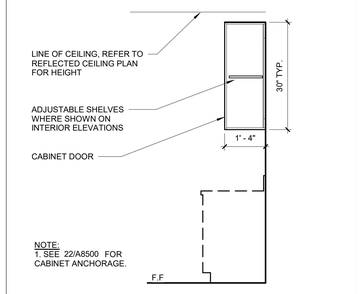
24 CAB. BACK AT WALL

6" = 1'-0"



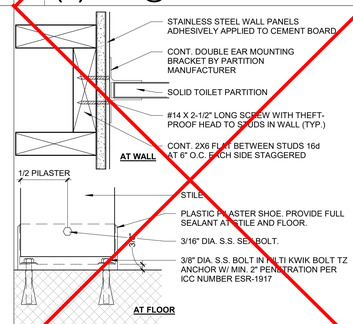
19 TALL CAB PROFILE

1/2" = 1'-0"



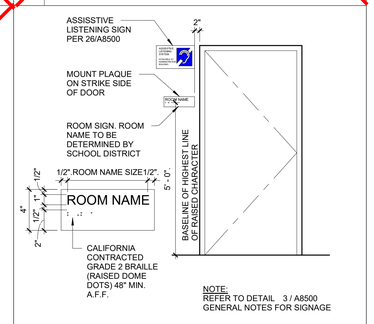
14 (N) TILE @ RR

1" = 1'-0"



9 RESTROOM SIGNAGE

1 1/2" = 1'-0"

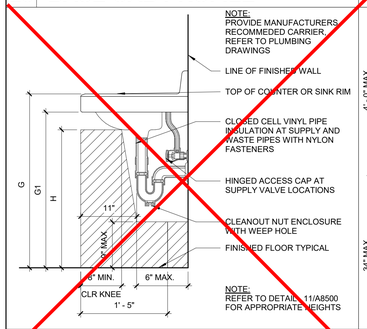


GENERAL NOTES

1. ALL SIGNS AND PLAQUES TO BE 1/4" THICK.
2. RAISE ALL SYMBOLS AND LETTERS 1/32" ABOVE SIGN/ PLAQUE SURFACE UNLESS OTHERWISE NOTED.
3. CONTRAST BETWEEN SIGN AND SIGN CONTENT SHALL BE 70% MIN. AND HAVE A NON-GLARE FINISH.
4. CONTRAST BETWEEN SIGN AND MOUNTING SURFACE SHALL BE 70% MINIMUM.
5. REFER TO DOOR ELEVATION FOR TYP. SIGNAGE LOCATION
6. CALIFORNIA GRADE 2 DOTS SHALL BE DOMESRAISED A MINIMUM OF 0.6m; 2.5mm BETWEEN TWO DOTS IN THE SAME CELL; 7.6mm BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS; 0.4mm BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW.
7. SIGNAGE SHALL COMPLY WITH 2016 TITLE 24, SECTION 11B-216 AND 11B-703.
8. WHERE GLAZING OCCURS ADJACENT TO STRIKE SIDE OF DOOR, ADHERE SIGNAGE TO GLAZING AND PROVIDE "BLANK-OFF" PANEL ON OPPOSITE SIDE OF GLAZING.
9. ROOM NAMES AND NUMBERING SHALL BE DETERMINED BY THE OWNER DURING THE CONSTRUCTION SUBMITTAL PROCESS.
10. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MIN. A.F.F. OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILE CELLS AND 60" MAX. A.F.F. OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHTED LINE OF RAISED CHARACTERS 2016 CBC ARTICLE 11B-703.4.1).
11. SIGNS AND IDENTIFICATION SHALL BE FIELD INSPECTED PER 2016 CBC 11B-703 AFTER INSTALLATION AND APPROVED BY THE ENFORCING AGENCY PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY PER APPENDIX CHAPTER 1, SECTION 110.2, OR FINAL APPROVAL WHERE NO CERTIFICATE OF OCCUPANCY IS ISSUED. THE INSPECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFICATION THAT BRAILLE DOTS AND CELLS ARE PROPERLY SPACED AND THE SIZE, PROPORTION AND TYPE OF RAISED CHARACTERS ARE IN COMPLIANCE WITH THESE REGULATIONS. 2016 CBC 11B-703.3 - 703.4

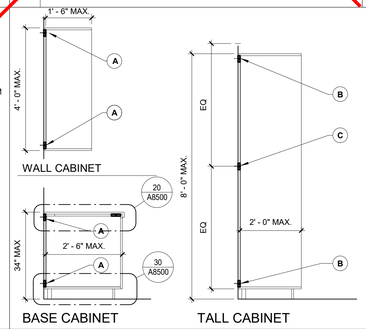
28 BASE CAB PROFILE

1/2" = 1'-0"



23 SINK IN COUNTER

1" = 1'-0"



18 UPPER CAB PROFILE

1/2" = 1'-0"

GENERAL CASEWORK NOTES:

A. 1/4" PLYWOOD BACK WITH 3/4" x 3 1/2" NAILERS TO BE ATTACHED TO 3/4" CABINET SIDE, TOP AND BOTTOM PER WOODWORK INSTITUTE "MANUAL OF MILLWORK".

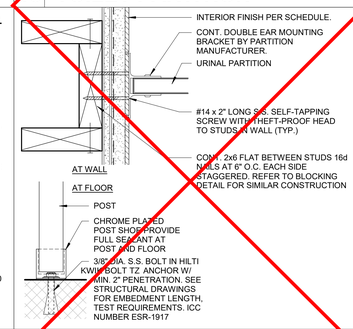
NOTE: FOR BLOCKING REFER TO DTL.

FASTENER SPACING LEGEND AND NOTES:

1. FASTENERS SHALL BE WITHIN 2" MIN. AND 3" MAX. OF EACH CABINET END.
2. FASTENER SPACING SHALL BE AS FOLLOWS:
   A 8" O.C.
   B 6" O.C.
   C 6" O.C. (DOUBLE MIDDLE ROW FASTENERS REQUIRED 2" APART, VERTICALLY)
3. FASTENERS TO VARYING SUPPORT ELEMENTS SHALL BE AS FOLLOWS:
   CONCRETE WALLS:
   3/8" DIA "HILTI" KB-TZ ANCHOR WITH 2 5/8" MIN EMBED AND 25 FT LB TORQUE - 14" O.C. (PER ICC ER-1917)
   WOOD STUD FRAMING:
   MIN. 3" x #14 PAN OR TRUSS HEAD SCREW WITH WASHER WITH 1 1/2" MIN EMBEDMENT BLOCKING PER DETAIL 21/A8500
   METAL STUD FRAMING:
   #14 PAN HEAD TEKS-SCREW WITH WASHER

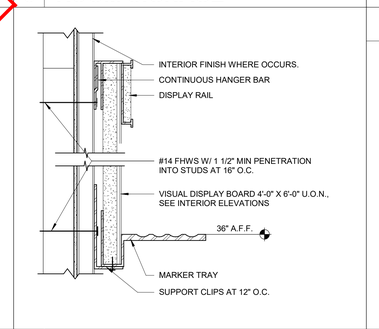
13 TOILET PARTITION

3" = 1'-0"



8 ROOM SIGNAGE

1/2" = 1'-0"



3 SIGNAGE NOTES

N.T.S.

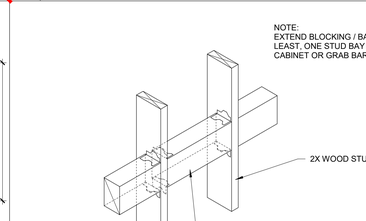
LETTER	DESCRIPTION	
A	FROM WALL TO CENTERLINE OF TOILET	17" - 18"
B	TOILET SEAT HEIGHT (TO TOP OF SEAT)	17" - 19"
C	GRAB BAR HEIGHT	33" - 36" TOP
D	TOILET TISSUE DISPENSER TO TOILET	7" - 9" ℄
E	SANITARY NAPKIN DISPOSAL TO TOILET	12" MAX.
E1	SANITARY NAPKIN DISPOSAL FROM FLOOR TO TOP	19" MIN.
F	DISPENSER OR MIRROR TO REFLECTIVE SURFACE	40" MAX.
G	LAVATORY/ SINK HEIGHT	34" MAX.
G1	LAVATORY APRON CLEARANCE	29" MIN.
H	KNEE CLEARANCE	27" MIN.
I	URINAL RIM HEIGHT	13" - 17"
J	URINAL FLUSH HANDLE HEIGHT	44" MAX.
K	DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.
L	DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.
M	D.F. BUBBLER HEIGHT (STANDING UNIT)	38" - 43"

27 ACCESSIBLE LAV

1" = 1'-0"

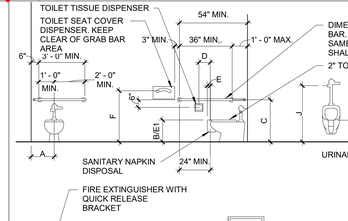
22 CABINET ANCHORAGE

1/2" = 1'-0"



12 URINAL PARTITION

3" = 1'-0"



26 ASSISTIVE LISTENING

3" = 1'-0"

21 BLOCKING

1" = 1'-0"

11 ACCESSIBLE MOUNTING HEIGHTS

1/4" = 1'-0"

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No. C18079
REN. 10/21
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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT
Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	08/19/2019

SHEET TITLE

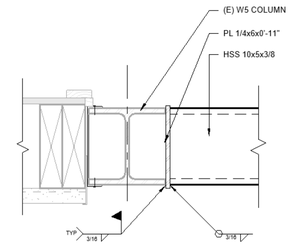
INTERIOR DETAILS

SHEET NUMBER

PHASE III

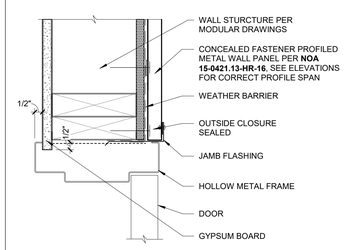
A8500

PLOT DATE: 2020-03-17 9:45:13 AM C:\Users\hunter.moser\Documents\REVIT\2018\ATH-118934-BLDG5_2018_hunter.moser.rvt



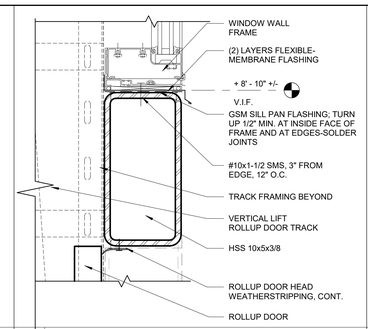
PROTECT (E) WALL ASSEMBLY FROM DAMAGE DURING DEMOLITION

25 HEADER @ (E)CLMN 3" = 1'-0"

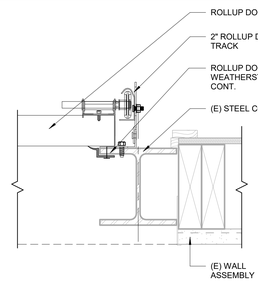


NOTE:
1. PROVIDE CONTINUOUS SEALANT AT DOOR FRAME RETURN AND WALL FINISH
2. REFER TO DETAIL 21/A8600 FOR FRAME ANCHOR

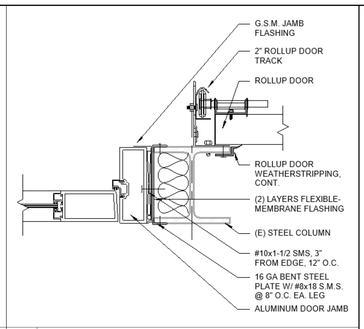
20 DOOR JAMB @ MTL 3" = 1'-0"



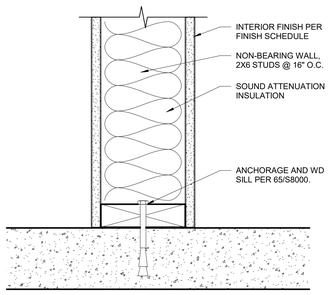
15 ROLLUP DOOR HEAD 3" = 1'-0"



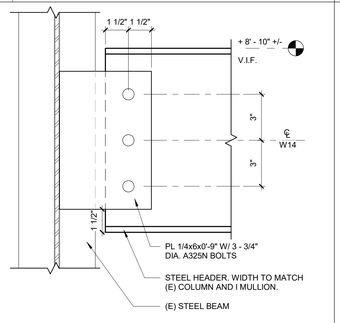
10 ROLLUP DOOR JAMB 3" = 1'-0"



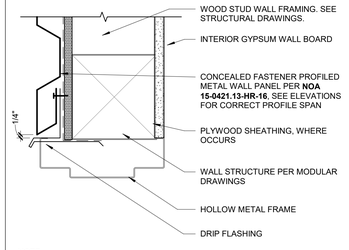
5 DOOR JAMB @ STEEL 3" = 1'-0"



28 WALL ANCHORAGE 3" = 1'-0"

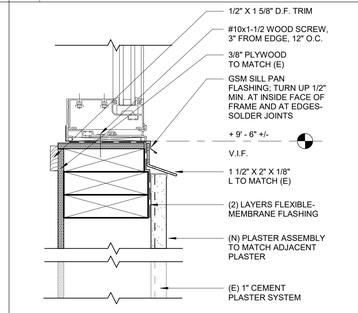


24 HEADER @ (E)CLMN 3" = 1'-0"

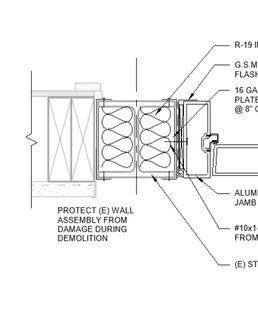


NOTE:
1. PROVIDE CONTINUOUS SEALANT AT DOOR FRAME RETURN AND WALL FINISH
2. REFER TO DETAIL 21/A8600 FOR FRAME ANCHOR

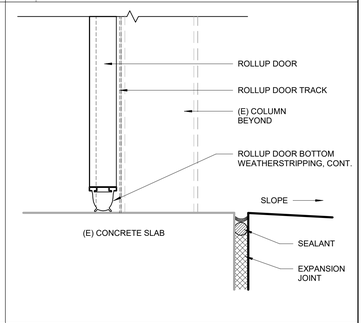
19 DOOR HEAD @ MTL 3" = 1'-0"



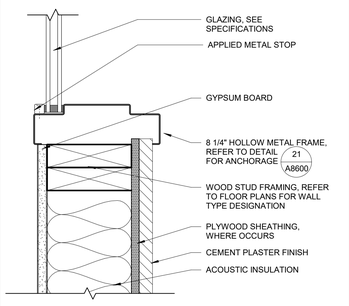
14 SILL AT INFILL 3" = 1'-0"



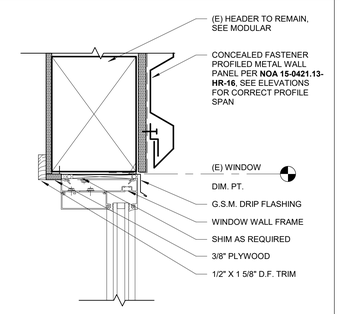
9 DOOR JAMB @ COL. 3" = 1'-0"



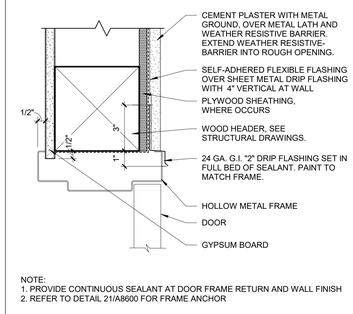
4 ROLLUP DOOR BASE 3" = 1'-0"



27 WINDOW SILL/JAMB 3" = 1'-0"

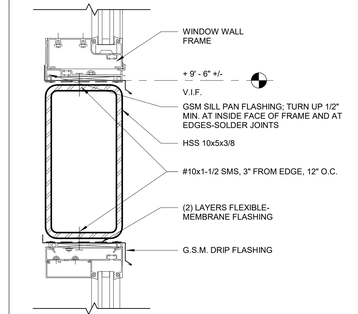


23 WIN. HEAD/JAMB - MTL 3" = 1'-0"

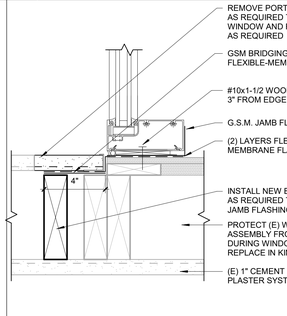


NOTE:
1. PROVIDE CONTINUOUS SEALANT AT DOOR FRAME RETURN AND WALL FINISH
2. REFER TO DETAIL 21/A8600 FOR FRAME ANCHOR

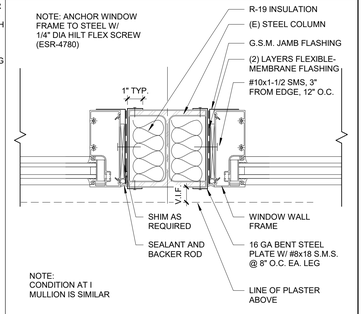
18 DOOR HEAD @ PLSTR 3" = 1'-0"



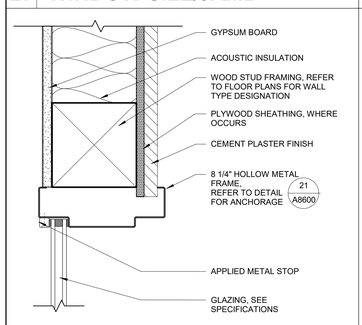
13 WIN. HEAD/SILL 3" = 1'-0"



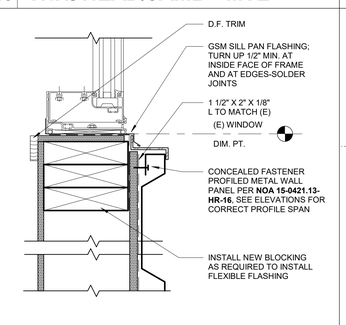
8 WIN. WALL JAMB END 3" = 1'-0"



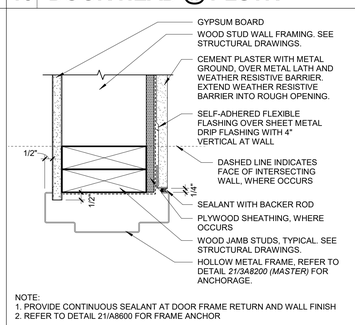
3 WIN. WALL JAMB COL. 3" = 1'-0"



26 WINDOW HEAD 3" = 1'-0"

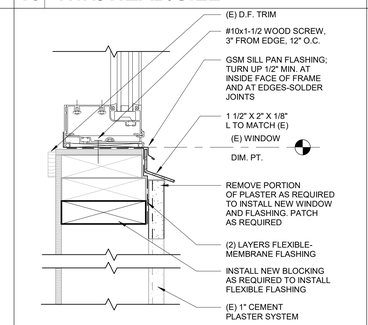


22 WIN. SILL - MTL 3" = 1'-0"

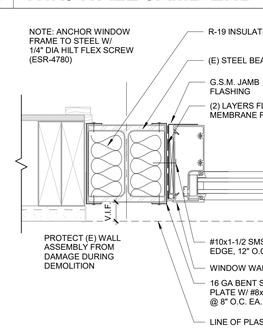


NOTE:
1. PROVIDE CONTINUOUS SEALANT AT DOOR FRAME RETURN AND WALL FINISH
2. REFER TO DETAIL 21/A8600 FOR FRAME ANCHOR

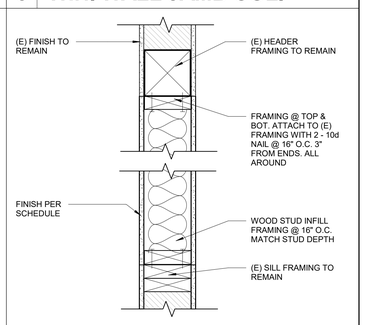
17 DOOR JAMB @ PLSTR 3" = 1'-0"



12 WINDOW WALL SILL 3" = 1'-0"

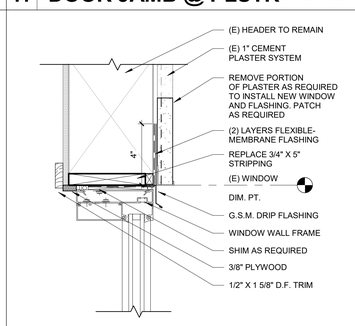


7 WIN. WALL JAMB 3" = 1'-0"

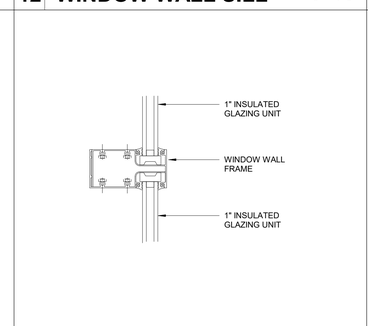


2 INT. WINDOW INFILL 1 1/2" = 1'-0"

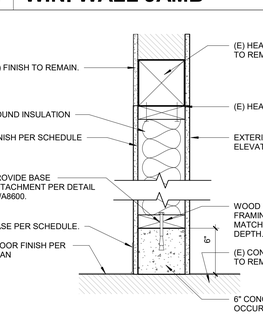
21 FRAME ANCHOR 1" = 1'-0"



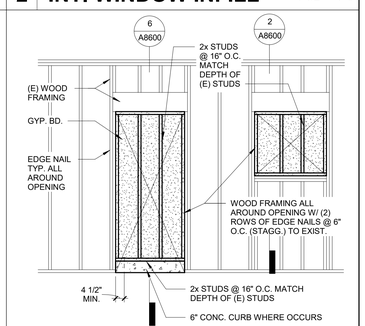
16 WINDOW WALL HEAD 3" = 1'-0"



11 MULLION 3" = 1'-0"



6 EXT. DOOR INFILL 1 1/2" = 1'-0"



1 INFILL AT OPENINGS 3/8" = 1'-0"

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SEAL

LICENSED ARCHITECT
RICHARD M. LO
No. C18079
REN. 10/21
STATE OF CALIFORNIA

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REVISIONS

NO.	DATE SUBMITTED	DATE APPROVED	DESCRIPTION

CONSULTANT

PRIME CONSULTANT

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BAKERSFIELD CITY SCHOOL DISTRICT

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815 EUREKA ST, BAKERSFIELD, CA 93305

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OPENING DETAILS

SHEET NUMBER

PHASE III

A8600

PLOT DATE: 2020-03-06 2:06:29 PM C:\Users\carlos.zaragoza\Documents\REVIT2018\ATW-118934-BLDG5_2018_carlos.zaragoza.rvt

ROOM - GENERAL NOTES

1. REFER TO SPECIFICATION SECTION 09 06 00 (COLORS AND FINISHES) FOR MATERIAL AND FINISH INFORMATION AND COLOR SCHEDULE.

2. WHERE MORE THAN ONE FLOOR FINISH MATERIAL IS INDICATED IN A ROOM, REFER TO FLOOR PLAN FOR EXTENT AND LAYOUT OF EACH TYPE OF MATERIAL. REFER TO DETAIL XX/A10.90 FOR TRANSITION CONDITIONS AT CHANGES IN FINISH FLOORING MATERIAL.

2. WHERE MORE THAN ONE WALL FINISH IS INDICATED, REFER TO INTERIOR ELEVATIONS.

3. PAINT ACCESS PANELS, LOUVERS, GRILLES, ETC. TO MATCH ADJACENT FINISH. ACCESS PANELS IN CERAMIC TILE SHALL BE STAINLESS STEEL.

4. WHERE MORE THAN ONE CEILING FINISH MATERIAL IS INDICATED IN A ROOM, REFER TO REFLECTED CEILING PLAN FOR EXTENT AND LAYOUT OF EACH TYPE OF MATERIAL.

5. GYPSUM BOARD IN CONCEALED SPACES TO HAVE LEVEL-1 FINISH.

6. THE FINISH FLOOR TRANSITION BETWEEN SPACES IS TO OCCUR AT THE "STRIKE-SIDE" OF THE DOORWAY IN THE DIRECTION OF DOOR SWING, UNLESS OTHERWISE NOTED ON FLOOR PLAN. OPENINGS WITHOUT DOORS SHALL BE AS INDICATED ON FLOOR PLANS.

7 INTERIOR FINISH MATERIALS USED FOR WALLS, CEILINGS, AND FLOORS SHALL MEET MINIMUM FLAME AND SMOKE DEVELOPED INDEX CLASS REQUIRED BY OCCUPANCY DESIGNATION:
-CLASS A: = FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450.
-CLASS B: = FLAME SPREAD INDEX 26-75; SMOKE-DEVELOPED INDEX 0-450.
-CLASS C: = FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450.
PER CBC TABLE 803.11

ABBREVIATIONS

MATERIAL ABBREVIATIONS LISTED BELOW APPLIES TO THIS SHEET ONLY AND TAKE PRECEDENCE OVER THOSE ABBREVIATIONS LISTED ON SHEET A0.01. REFER TO SHEET A0.01 FOR ABBREVIATIONS NOT LISTED BELOW.

FLOOR MATERIAL DESIGNATIONS

C - CARPET
CPT - CARPET TILES
CT - CERAMIC TILE
EXC - EXPOSED CONCRETE
PT - PORCELAIN TILE

BASE MATERIAL DESIGNATIONS

CTB - CERAMIC TILE BASE
PTB - PORCELAIN TILE BASE
TSB - TOP SET BASE

WALL MATERIAL DESIGNATIONS

GB - GYPSUM BOARD
P - PAINT
TWSV - TACKABLE WALL SYSTEM VINYL COVERED

CEILING MATERIAL DESIGNATION

ACT - ACOUSTICAL CEILING PANEL
EXP - EXPOSED STRUCTURE

FINISH DESIGNATIONS

E - ENAMEL PAINT
FAC - FACTORY APPLIED FINISH
HS - HARDENER/SEALER
INT - INTEGRAL
P - PAINT
PF - PREFINISHED
ST - STAIN

DOOR / WINDOW GEN. NOTES

1. DOORS AND WINDOWS ARE IDENTIFIED AS DEFINED IN SYMBOL LEGEND ON SHEET A0.01.

2. ALL DOORS ARE 1-3/4" THICK U.O.N. ALL HOLLOW METAL FRAME MEMBERS ARE 2" IN WIDTH, U.O.N. REFER TO DETAILS.

3. EXIT DOORS FROM ALL OCCUPIED SPACES TO BE PROVIDED WITH TYPE OF LOCK OR LATCH THAT IS OPENABLE FROM THE INSIDE PER THE REQUIREMENTS OF THE 2016 CALIFORNIA BUILDING CODE SECTION 1010

4. ALL RATED DOORS TO BE POSITIVE LATCHING AND SELF-CLOSING. 'LABEL' SHALL MEAN 'FIRE ASSEMBLY' AS DEFINED IN 2016 CBC SECTION 715

5. ALL LABELED DOORS SHALL HAVE APPROPRIATE CLOSER AND HARDWARE ASSEMBLIES AS REQUIRED BY DOOR LABELING AGENCY.

6. ALL DOORS AND FRAMES SHALL BE PAINTED COLOR AS SPECIFIED BY THE ARCHITECT.

7. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL BE AS FOLLOWS:

A. INTERIOR DOORS = 5 LBS
B. EXTERIOR DOORS = 5 LBS
C. FIRE DOORS = THE AUTHORITY HAVING JURISDICITON MAY INCREASE THE MAXIMUM EFFORT TO OPERATE FIRE DOORS TO ACHIEVE POSITIVE LATCHING BUT NOT TO EXCEED 15 LBS. MAXIMUM.

8. FLOOR MOUNTED DOOR STOPS AND SIMILAR OBSTRUCTIONS TO BE INSTALLED 4" MAX. FROM FACE OF WALL OR PARTITION.

9. PROVIDE ROOM IDENTIFICATION SIGNAGE AT ALL DOORS, U.O.N. REFER TO DOOR SCHEDULE. CONTRACTOR SHALL SUBMIT A DOOR SIGNAGE SCHEDULE TO ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.

10. REFER TO DOOR SCHEDULE FOR DOOR WIDTHS, HEIGHTS, AND MATERIAL.

11. REFER TO FLOOR PLANS FOR DOOR LOCATIONS, AND DIRECTION OF SWINGS.

12. DOOR AND FRAME TYPE SCHEDULE: IF NO DETAIL IS REFERENCED, REFER TO SIMILAR CONDITIONS.

13. IN ADDITON TO THE LOCATIONS INDICATED, PROVIDE TEMPERED GLASS IN THE FOLLOWING LOCATIONS.

A. WITHIN A 24-INCH RADIOUS OF DOOR JAMBS.
B. IN FIXED PANELS WHICH HAVE A GLAZED AREA IN EXCESS OF 9 SQUARE FEET AND THE LOWEST EDGE IS LESS THAN 18-INCHES ABOVE FINISHED FLOOR LEVEL.

14. GLAZING DESIGNATIONS:

TG TEMPERED GLASS
FR FIRE RATED GLASS

15. ANCHORAGE OF WINDOWS, ALUMINUM STOREFRONT, AND CURTAIN WALL SYSTEMS TO ADJACENT STRUCTURE AS INDICATED ON DETAILS IS SHOWN ONLY FOR PURPOSES OF OBTAINING DRAWING APPROVAL FROM THE DIVISION OF THE STATE ARCHITECT. ACTUAL ANCHORAGES ARE TO BE INDICATED ON SHOP DRAWINGS AND FULLY ENGINEERED (WITH SUPPORTING CALCULATIONS) TO PERFORMANCE REQUIREMENTS INDICATED IN PROJECT MANUAL.

16. WINDOW HEIGHTS INDICATED ARE RELATIVE TO FINISH FLOOR ELEVATION IN WHICH WINDOW OCCURS.

17. OPERABLE WINDOW SASH TO HAVE LIMIT DEVICE TO RESTRICT SASH OPENING SO SASH DOES NOT PROTRUDE MORE THAN 4-INCHES PAST FRONT FACE OF ADJACENT WALL, NOR ALLOW A 4-INCH DIAMETER SPHERE TO PASS THRU OPENING IN WINDOW.

(E) BLDG. B - ROOM FINISH SCHEDULE

No.	ROOM NAME	FLOOR M1	FLOOR F1	FLOOR M2	FLOOR F2	BASE M1	BASE F1	BASE M2	BASE F2	NORTH M1	NORTH F1	NORTH M2	NORTH F2	NORTH M3	NORTH F3	EAST M1	EAST F1	EAST M2	EAST F2	EAST M3	EAST F3	SOUTH M1	SOUTH F1	SOUTH M2	SOUTH F2	SOUTH M3	SOUTH F3	WEST M1	WEST F1	WEST M2	WEST F2	WEST M3	WEST F3	CEILING M1	CEILING F1	CEILING M2	CEILING F2	REMARKS	No.
1	(E) CLASSROOM	CPT	INT	--	--	TSB	INT	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	INT	--	--		1
2	(E) CLASSROOM	CPT	INT	--	--	TSB	INT	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	INT	--	--		2
3	(E) CLASSROOM	CPT	INT	--	--	TSB	INT	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	INT	--	--		3
4	(E) CLASSROOM	CPT	INT	--	--	TSB	INT	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	INT	--	--		4
5	(E) CLASSROOM	CPT	INT	--	--	TSB	INT	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	INT	--	--		5

(E) BLDG. C - ROOM FINISH SCHEDULE

No.	ROOM NAME	FLOOR M1	FLOOR F1	FLOOR M2	FLOOR F2	BASE M1	BASE F1	BASE M2	BASE F2	NORTH M1	NORTH F1	NORTH M2	NORTH F2	NORTH M3	NORTH F3	EAST M1	EAST F1	EAST M2	EAST F2	EAST M3	EAST F3	SOUTH M1	SOUTH F1	SOUTH M2	SOUTH F2	SOUTH M3	SOUTH F3	WEST M1	WEST F1	WEST M2	WEST F2	WEST M3	WEST F3	CEILING M1	CEILING F1	CEILING M2	CEILING F2	REMARKS	No.
6	(E) CLASSROOM	CPT	INT	--	--	TSB	INT	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	INT	--	--		6
7	(E) CLASSROOM	CPT	INT	--	--	TSB	INT	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	INT	--	--		7
8	(E) CLASSROOM	CPT	INT	--	--	TSB	INT	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	INT	--	--		8
9	(E) CLASSROOM	CPT	INT	--	--	TSB	INT	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	INT	--	--		9
10	(E) CLASSROOM	CPT	INT	--	--	TSB	INT	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	INT	--	--		10
C1	(E) SINKS	ST	INT	--	--	STC	INT	--	--	ST	INT	(E) SD	P	--	--	ST	INT	(E) SD	P	--	--	ST	INT	(E) SD	P	--	--	ST	INT	(E) SD	P	--	--	(E)	P	--	--		C1

(E) BLDG. D - ROOM FINISH SCHEDULE

No.	ROOM NAME	FLOOR M1	FLOOR F1	FLOOR M2	FLOOR F2	BASE M1	BASE F1	BASE M2	BASE F2	NORTH M1	NORTH F1	NORTH M2	NORTH F2	NORTH M3	NORTH F3	EAST M1	EAST F1	EAST M2	EAST F2	EAST M3	EAST F3	SOUTH M1	SOUTH F1	SOUTH M2	SOUTH F2	SOUTH M3	SOUTH F3	WEST M1	WEST F1	WEST M2	WEST F2	WEST M3	WEST F3	CEILING M1	CEILING F1	CEILING M2	CEILING F2	REMARKS	No.
11	(E) CLASSROOM	CPT	FAC	--	--	TSB	FAC	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	FAC	--	--		11
12	(E) CLASSROOM	CPT	FAC	--	--	TSB	FAC	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	FAC	--	--		12
13	(E) MUSIC	CPT	FAC	--	--	TSB	FAC	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	FAC	--	--		13
14	(E) SCIENCE	CPT	FAC	--	--	TSB	FAC	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	FAC	--	--		14
C1	(E) SINKS	ST	INT	--	--	STC	INT	--	--	ST	INT	(E) SD	P	--	--	ST	INT	(E) SD	P	--	--	ST	INT	(E) SD	P	--	--	ST	INT	(E) SD	P	--	--	(E)	P	--	--		C1

(E) BLDG. E - ROOM FINISH SCHEDULE

No.	ROOM NAME	FLOOR M1	FLOOR F1	FLOOR M2	FLOOR F2	BASE M1	BASE F1	BASE M2	BASE F2	NORTH M1	NORTH F1	NORTH M2	NORTH F2	NORTH M3	NORTH F3	EAST M1	EAST F1	EAST M2	EAST F2	EAST M3	EAST F3	SOUTH M1	SOUTH F1	SOUTH M2	SOUTH F2	SOUTH M3	SOUTH F3	WEST M1	WEST F1	WEST M2	WEST F2	WEST M3	WEST F3	CEILING M1	CEILING F1	CEILING M2	CEILING F2	REMARKS	No.
15	(E) CLASSROOM	CPT	FAC	--	--	TSB	FAC	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	FAC	--	--		15
16	(E) CLASSROOM	CPT	FAC	--	--	TSB	FAC	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	FAC	--	--		16
17	(E) CLASSROOM	CPT	FAC	--	--	TSB	FAC	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	FAC	--	--		17
18	(E) CLASSROOM	CPT	FAC	--	--	TSB	FAC	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	FAC	--	--		18
19	(E) CLASSROOM	CPT	FAC	--	--	TSB	FAC	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	TWSV	INT	(E) GB	P	--	--	ACT	FAC	--	--		19

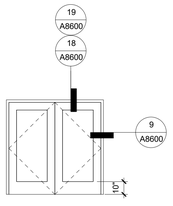
(E) BLDG. H - ROOM FINISH SCHEDULE

No.	ROOM NAME	FLOOR M1	FLOOR F1	FLOOR M2	FLOOR F2	BASE M1	BASE F1	BASE M2	BASE F2	NORTH M1	NORTH F1	NORTH M2	NORTH F2	NORTH M3	NORTH F3	EAST M1	EAST F1	EAST M2	EAST F2	EAST M3	EAST F3	SOUTH M1	SOUTH F1	SOUTH M2	SOUTH F2	SOUTH M3	SOUTH F3	WEST M1	WEST F1	WEST M2	WEST F2	WEST M3	WEST F3	CEILING M1	CEILING F1	CEILING M2	CEILING F2	REMARKS	No.
801	BOYS	(E)	--	--	--	(E)	--	--	--	(E)	--	--	--	--	--	(E)	--	--	--	--	--	(E)	--	--	--	--	--	(E)	--	--	--	--	--	(E)	--	--	--		801
802	CUSTODIAN	(E)	--	--	--	(E)	--	--	--	(E)	--	--	--	--	--	(E)	--	--	--	--	--	(E)	--	--	--	--	--	(E)	--	--	--	--	--	(E)	--	--	--		802
803	MULTIPURPOSE ROOM	EXC	HS	--	--	TSB	INT	--	--	(E)	P	--	--	--	--	(E)	P	--	--	--	--	(E)	P	--	--	--	--	(E)	P	--	--	--	--	EXP	--	--	--		803
804	MULTIPURPOSE ROOM	EXC	HS	--	--	TSB	INT	--	--	(E)	P	--	--	--	--	(E)	P	--	--	--	--	(E)	P	--	--	--	--	(E)	P	--	--	--	--	EXP	--	--	--		804
805	OFFICE	CPT	INT	--	--	TSB	INT	--	--	(E)	P	--	--	--	--	(E)	P	--	--	--	--	(E)	P	--	--	--	--	(E)	P	--	--	--	--	(E)	P	--	--		805
806	STORAGE	EXC	HS	--	--	TSB	INT	--	--	(E)	P	--	--	--	--	(E)	P	--	--	--	--	(E)	P	--	--	--	--	(E)	P	--	--	--	--	(E)	P	--	--		806

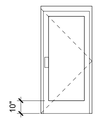
9200 - DOOR SCHEDULE

DOOR No.	DOOR TYPE	DOOR MAT	DOOR FINISH	DOOR WIDTH	DOOR HEIGHT	RATING	HARDWARE	PANIC	SIGNAGE	FRAME MAT	FRAME FINISH	REMARKS
803A.	B	ALUM	PREFIN	7' - 6"	7' - 6"	-	--	No	-	ALUM	PREFIN	VERTICAL LIFT TRACK
803B.	A	ALUM	PREFIN	7' - 8"	7' - 2 3/16"	-	02	Yes	8/A8500	ALUM	PREFIN	
804A.	C	WD	STAIN	3' - 0"	6' - 8"	-	03	No	-	HM	PAINT	VERIFY (E) FRAMED OPENING
804B.	A	ALUM	PREFIN	7' - 8"	7' - 2 7/8"	-	02	Yes	8/A8500	ALUM	PREFIN	
804C.	B	ALUM	PREFIN	7' - 6"	7' - 6"	-	--	No	-	ALUM	PREFIN	VERTICAL LIFT TRACK
804D.	B	ALUM	PREFIN	7' - 6"	7' - 6"	-	--	No	-	ALUM	PREFIN	VERTICAL LIFT TRACK
804E.	A1	ALUM	PREFIN	3' - 0"	6' - 8"		01	Yes	9/A8500	ALUM	PREFIN	VERIFY (E) FRAMED OPENING
804F.	C	WD	STAIN	3' - 0"	6' - 8"	-	03	No	9/A8500	HM	PAINT	VERIFY (E) FRAMED OPENING
C1.	C	HM	PAINT	3' - 0"	7' - 0"	-	01	No	9/A8500	HM	PAINT	
D1.	C	HM	PAINT	3' - 0"	7' - 0"	-	01	No	9/A8500	HM	PAINT	

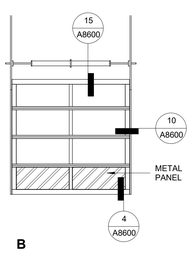
DOOR TYPES



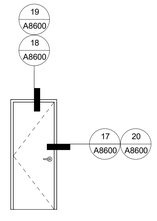
A
ALUMINUM DOUBLE DOOR
TEMPERED INSULATED SAFETY GLAZING (IG-14)



A1
ALUMINUM SINGLE DOOR
TEMPERED INSULATED SAFETY GLAZING (IG-14)

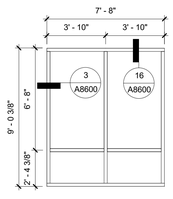


B
ALUMINUM ROLL-UP DOOR
TEMPERED INSULATED SAFETY GLAZING (IG-14)

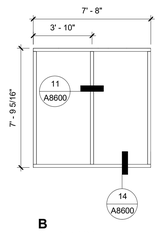


C
HOLLOW METAL OR
WOOD SEE SCHEDULE

WINDOW TYPES



A
ALUMINUM
TINTED, TEMPERED, & INSULATED SAFETY GLAZING (IG-20)



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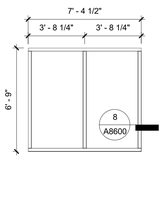
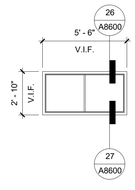
TINTED, TEMPERED, & INSULATED SAFETY GLAZING (IG-20)



C
ALUMINUM
TINTED, TEMPERED, & INSULATED SAFETY GLAZING (IG-20)



D
HOLLOW METAL
TINTED, TEMPERED, & INSULATED SAFETY GLAZING (IG-20)

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SEAL

LICENSED ARCHITECT
RICHARD MELLO
No. C18079
REN. 10/21
STATE OF CALIFORNIA

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REVISIONS

NO.	DATE SUBMITTED	DATE APPROVED	DESCRIPTION

CONSULTANT

PRIME CONSULTANT

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT "Where The Child Comes First"

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	08/19/2019

SHEET TITLE

SCHEDULES

SHEET NUMBER

PHASE III

A9000

PLOT DATE: 2020-03-16 3:25:42 PM C:\Users\carlos.zaragoza\Documents\REVIT20180\BATCH-118934-BLDGS_v2018_carlos.zaragoza.rvt

STRUCTURAL NOTES

GENERAL NOTES

1. The following notes, typical details and schedules shall apply to all phases of this project unless otherwise shown or noted.
2. Specific notes and details shall take precedence over general notes and typical details.
3. All materials and workmanship shall conform to the minimum standards of the 2016 edition of the California Building Code (CBC) and such other regulating agencies exercising authority over any portion of the work. The Contractor shall have a copy of the CBC on the job site.
4. The "contract or construction documents" shall consist of these notes, details, schedules, plans, and drawings, as well as attached specifications.
5. All specifications, including but not limited to materials and products, shall be those put forth in the "contract or construction documents". No substitutions shall be permitted to be used or assumed to be used in the bidding or construction process without written approval by the Structural Engineer of Record.
6. The Contractor shall examine the "contract or construction documents" and shall notify the Architect or Engineer of any discrepancies he may find before proceeding with the work.
7. All information on existing conditions shown on drawings are based on best present knowledge available, but without guarantee of accuracy. The Contractor shall verify and be responsible for all dimensions and conditions at the site and shall notify the Architect or Structural Engineer of any discrepancies between actual site conditions and information shown on or in the "contract or construction documents" before proceeding with work.
8. The Contractor shall immediately notify the Architect or Structural Engineer of any condition which in his opinion might endanger the stability of the structure or cause distress of the structure.
9. All work shall conform to the best practice prevailing in the various trades comprising work. The Contractor shall be responsible for coordinating the work of all trades.
10. These "contract or construction documents" represent the finished structure, and do not indicate the method of construction. The Contractor shall supervise and direct the work and shall be solely responsible for construction means, methods, techniques, sequences and procedures.
11. Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC section 1704A.2.
    A. Labeling (as required or specified) shall be provided in accordance with CBC section 1703A.5.
    B. Evaluation and follow-up inspection services (as required or specified), shall conform to CBC section 1703A.6.
12. The Contractor shall refer to the specifications for information not covered by these drawings and general notes.
13. The Contractor shall provide temporary bracing and shoring for all structural members as required for structural stability of the structure during all phases of construction.
14. The Contractor shall take all steps necessary to ensure proper alignment of the structure after the installation of all structural and finish materials. This shall include any necessary preloading of the structure to determine final position of the completed work.
15. Observation visits to the project site by field representatives of Architect and/or Structural Engineer (support services) shall not include inspections of safety or protective measures, nor construction procedures, techniques or methods. Any support services performed by Architect or Structural Engineer during any phase of construction, shall be distinguished from continuous and detailed inspection services (as required by any regulating governmental agency, e.g. the Authority having Jurisdiction) provided by others. These support services, whether of material or work, are performed solely for the purpose of assisting in quality control and in achieving conformance with contract documents, but do not guarantee contractor's performance and shall not be construed as supervision of construction.
16. Provide openings and supports as required per typical details and notes for mechanical, plumbing, and electrical equipment, vents, ducts, piping, etc. All mechanical, plumbing and electrical equipment shall be properly "sway braced" against lateral forces.
17. These notes, details, drawings and specifications (contract or construction documents) do not carry necessary provisions for construction safety. these documents and all phases of construction hereby contemplated are to be governed, at all times, by applicable provisions of the current California Occupational Safety and Health Act.
18. Where any conflict occurs between the requirements of federal, state and local laws, codes, ordinances, rules and regulations, the most stringent shall govern.
19. Refer to Architectural Drawings to coordinate with Structural Drawings. Any discrepancy between these drawings shall be referred to the Architect or Structural Engineer for clarification before start of construction.
20. Written dimensions shall have precedence over scaled dimensions.
21. Drawings (notes, schedules, details and plans) shall have precedence over structural calculations.
22. In the event that certain features of the construction are not fully shown on the drawings or called for in the general notes or specifications, then their construction shall be of the same character as for similar conditions that are shown or called for.
23. Contractor shall have a copy of project Geotechnical Investigation on the job site.
24. ASTM designation and all standards refer to the latest amendments.
25. These structural "contract or construction documents" shall not be modified without prior written approval of the Structural Engineer of Record.
26. Only "approved" structural working drawings and "contract or construction documents" are permitted to be used for construction on this project. All other drawings or documents are obsolete and are not permitted on the job site, nor shall they be used for any construction purposes. Contractors using unapproved drawings or documents are solely responsible for all work not performed in accordance with the "approved" drawings.
27. See Architectural drawings for all fire protection requirements.

SHOP DRAWING AND CONTRACTOR SUBMITTAL REVIEW

1. Shop drawings or Contractor submittals should be provided for the fabrication (or mixing) of the following (but not limited to) components or elements.
   A. Concrete mix designs
   B. Masonry units
   C. Grout and mortal designs
   D. Structural steel
   E. Reinforcing steel
   F. Substitute or alternate materials.
2. Project Contractor shall be responsible for production and approval of all shop drawings.
3. When Project Contractor submits shop drawings or other submittals to Architect/Structural Engineer for review, submittal package shall contain sufficient copies that Architect/Structural Engineer may retain a complete copy of submittal package. In addition, Project Contractor shall allow sufficient time to thoroughly review submittal package (10 working days, minimum).
4. Review of shop drawings or Contractor submittal by Architect/Structural Engineer does not in any way constitute approval of submittal package. Architect/Structural Engineer's review is for general conformance with the design concept and contract documents. Review shall not be construed as relieving Project Contractor from compliance with the contract documents.

DEMOLITION NOTES

1. Safety Note:
   A. It is solely the Contractor's responsibility to comply with the pertinent sections, as they apply to this project, of the "Construction Safety Orders" issued by the State of California, latest edition, and all O.S.H.A. Requirements.
   B. The Architect, Engineer of Record, and the Owner do not accept any responsibility for the Contractor's failure to comply with these requirements.
   C. The Contractor shall be responsible for adequate design and construction of all forms. Forms shall also be adequately braced and shored.
2. Shore beams where necessary to maintain the structural integrity of the existing structure.
3. Notify the Engineer of Record of any discrepancies between the plans and existing structure.

The Contractor is responsible for the design and location of all shoring.

FOUNDATION NOTES

1. Basis: See Structural Design Values Chart (this sheet)
2. Unexpected soil conditions: Allowable values and foundation design are based upon soil conditions shown by test borings. Actual soil conditions which deviate appreciably from that shown in the test borings shall be reported to the Project Geotechnical Engineer of Record immediately.
3. Site preparation per Geotechnical recommendations as follows:

   The following procedures must be implemented during Site preparation for the proposed Site improvements. References to maximum dry density, optimum moisture content, and relative compaction are based on ASTM D 1557 (latest test revision) laboratory test procedures.

   1. The areas of proposed improvements must be cleared of surface vegetation and debris. Materials resulting from the clearing and stripping operations must be removed and properly disposed of off-site. In addition, all undocumented fills should be removed where encountered and where fills or structural improvements will be placed. BSK recommends at the soil be compacted at least 90 percent of the maximum dry density as determined by ASTM Test Method D1557A.
      a. At the proposed building/structure area, the site shall be overexcavated to a depth of three (3) feet below existing grade and one (1) foot below bottom of footing, or whichever is greater. The overexcavation shall extend 5 feet from the edge of the exterior footing.
      b. Excavations adjacent to existing structures shall be made using 'ABC' slot cut methods with excavation widths no greater than 8 feet. The contractor must document pre-excavation and post-excavation structure conditions and closely monitor the adjacent building during site excavation.
      c. At the proposed exterior concrete flatworks and sidewalks areas, the site shall be scarified to a minimum depth of 12 inches below existing grade and recompacted to at least 90 percent of relative compaction. Yielding areas shall be observed by the geotechnical consultant and removed and recompacted if necessary.
   2. After overexcavation, the bottom of the exposed soil shall be scarified 8 inches, moisturized to optimum moisture content, and compacted to 90 percent of ASTM D1557.
   3. Following the required stripping and overexcavation, the exposed ground surface must be inspected by the Geotechnical Engineer to evaluate if loose or soft zones are present that will require over excavation.
   4. Imported soil or native excavated soils, free of organic materials or deleterious substances, may be placed as compacted engineered fill. The material must be free of oversized fragments greater than 3-inches in greatest dimension. Engineered fill underneath and extending 5 feet beyond the building foundation and must be placed in uniform layers not exceeding 8-inches in loose thickness, moisture conditioned to within 2 to 4 percent above optimum moisture content, and compacted to at least 90 percent relative compaction. Engineered fill placed on fill slopes must be placed in uniform layers not exceeding 8-inches in loose thickness, moisture conditioned to within 2 percent of optimum moisture content, and compacted to at least 90 percent of relative compaction.
   5. BSK must be called to the site to verify the import material properties through laboratory testing.
   6. If possible, earthwork operations shall be scheduled during a dry, warm period of the year. Should these operations be performed during or shortly following periods of inclement weather, unstable soil conditions may result in the soils exhibiting a "pumping" condition. This condition is caused by excess moisture in combination with moving construction equipment, resulting in saturation and zero air voids in the soils. If this condition occurs, the adverse soils will need to be over-excavated to the depth at which stable soils are encountered, and replaced with suitable soils compacted as engineered fill. Alternatively, the Contractor may proceed with grading operations after utilizing a method to stabilize the soil subgrade, which shall be subject to review and approval by BSK prior to implementation.
   7. Import fill materials must be free from organic materials or deleterious substances. The project specifications must require the contractor to contact BSK to review the proposed import fill materials for conformance with these recommendations at least one week prior to importing to the Site, whether from on-site or off-site borrow areas. Imported fill soils must be non-hazardous and derived from a single, consistent soil type source conforming to the following criteria:

      Plasticity Index: < 12
      Expansion Index: < 20 (Very Low Expansion Potential)
      Maximum Particle Size: 3 inches
      Percent Passing #4 Sieve: 65 - 100
      Percent Passing #200 Sieve: 20 - 45
      Low Corrosion Potential: Soluble Sulfates < 1,500 ppm
      Soluble Chlorides < 150 ppm
      Minimum Resistivity > 3,000 ohm-cm
   4. Excavate to required depths and dimensions (as indicated in drawings and Project Geotechnical Investigation), cut square and smooth with firm level bottoms. Care shall be taken not to over-excavate foundation at lower elevation and prevent disturbing of soils around higher elevation.
   5. Footings shall be poured in neat excavations, without side forms whenever possible.
   6. Carry all foundations to required depths into engineered pad (as per structural plans and details, and Project Geotechnical Investigation).
   7. Foundations shall not be poured until all required reinforcing steel, sleeves, inserts, conduits, pipes, etc. and formwork is properly placed and inspected by the Project Inspector.
   8. All foundation excavations shall be inspected and approved by Project Geotechnical Engineer, prior to forming and placement of reinforcing or concrete.
   9. The sides and bottoms of excavations which are to have concrete contact must be moistened several times just prior to pouring upon them.
   10. De-water footings, as required, to maintain dry working conditions.

CONCRETE (Specification 03 30 00)

1. All concrete shall have a minimum ultimate compressive strength (f'_c) as outlined below at 28 days. All concrete shall be regular weight (unless specifically noted otherwise).

   A. Concrete for footings and slab on grade: 3,000 psi w/c = 0.45 max.
   B. Concrete for site retaining walls: 3,000 psi w/c = 0.45 max.
2. Maximum Fly Ash content shall be 15%, by weight, of total cementitious materials and shall conform to ASTM C618.
3. All concrete work shall comply with CBC Chapter 19A and ACI 318-14 and latest edition of ACI Manual of Concrete Practice.
4. Special Inspection (as required or specified) shall conform to CBC Chapter 17A.
5. Cement shall be Portland Cement Type II and shall conform to ASTM C150.
6. Aggregates shall conform to ASTM C33, provide aggregates from a single source. Maximum aggregate size = 1½"
7. Water shall conform to ASTM C94 and be potable.
8. All splices are to be Class B unless specifically noted otherwise.
9. Where not specifically detailed, the minimum concrete cover on reinforcing steel shall be:

   A. Concrete cast against and permanently exposed to earth or weather: 3"
   B. Concrete placed against forms, but exposed to earth or weather: 1½" for #5 & smaller; 2" for #6 & larger
   C. Slabs, wall & joists, not exposed to earth or weather: ¾"
   D. Beams, girders & columns, not exposed to earth or weather: 1½"
10. Reinforcing bars larger than #8 are not permitted unless specifically detailed or noted otherwise.
11. Location of all construction joints, other than specified, shall be approved by Architect/Structural Engineer prior to pouring. Construction joints shall be thoroughly air and water cleaned and heavily roughened so as to expose coarse aggregates. All surfaces to receive concrete shall be maintained continuously wet at least three hours in advance of pouring.
12. All reinforcing steel, anchor bolts, dowels, inserts and any other hardware to be set in concrete shall be well secured in position prior to pouring of concrete.

CONCRETE (CONT.) (Specification 03 30 00)

13. Contractor shall obtain approval from Architect/Structural Engineer prior to placing sleeves, pipes, ducts, chases, coring and openings on or through structural concrete beams, walls, floors and roof slabs, unless specifically detailed or noted. All pipes or conduits passing through concrete members shall be sleeved with standard steel pipes. See detail for Pipe Through Foundation.
14. Vibrate all concrete (including slabs on grade) as it is placed, with a mechanical vibrator operated by experienced personnel. The vibrator shall be used to consolidate the concrete, not transport it. Reinforcing and forms shall not be vibrated.
15. Formwork design and removal shall conform to ACI 318-14 Section 26.11. Remove forms in accordance with the following minimum schedule:

    Side forms of footings: Minimum 48 hours
    Edge forms of slab on grade: Minimum 24 hours
    Wall/retaining wall forms: 72 hours & 70% of design strength
16. Concrete shall not free fall more than six feet. Use tremie, pump or other approved methods.
17. Concrete shall be maintained in a moist condition for a minimum of 5 days after placement.
18. Contractor may use concrete admixtures as a construction means and methods to execute "Contract or Construction Documents". Use of admixture is solely the responsibility of the contractor.
19. Mix designs shall be prepared by an approved testing laboratory, signed by a licensed engineer and shall be submitted to the Project Structural Engineer of Record for approval.
20. Only one grade of concrete shall be allowed on project site at any one time.
21. Unless specifically detailed or noted otherwise, construction and control joints shall be provided in all concrete slabs, and shall be located such that the area within joints does not exceed 375 sq. ft., and is roughly square.
    A. For all structural slabs (suspended or ongrade) where architectural "exposed" conditions are desired, General Contractor shall provide control joint layout for review by Architect or Engineer.
22. Dowel all concrete walls and columns to supporting concrete with bars of the same size and spacing as vertical bars in wall and columns. Do not "hickey" bars. All dowels shall be vertical.
23. Concrete strength shall be verified by standard cylinder tests (in accordance with CBC Section 1705A.3) made by an approved testing laboratory.
24. Concrete placed when the air temperature has fallen to, or is expected to fall below 40° shall conform to ACI 318-14 Section 26.5.4, and ACI 306R-16.
25. Concrete placed during hot weather shall conform to ACI 318-14 Section 26.5.5, and ACI 305R-14.
26. Conduits and sleeves placed within structural concrete shall not be tied directly to structural reinforcement.
    A. 1" concrete cover shall be maintained around all reinforcement.

REINFORCING STEEL (Specification 03 30 00)

1. All reinforcing steel shall be deformed intermediate grade bars conforming to ASTM A615, Grade 60 (f_y = 60 ksi) unless otherwise noted.
   A. Grade 40 may be used for #3 bars.
2. Reinforcing steel shall not be welded, unless specifically noted otherwise.
3. Welding of reinforcing steel (where specifically noted or detailed) shall conform to ACI 318-14, Section 26.6.4 and AWS D1.4. Welded rebar shall be low-alloy steel conforming to ASTM A706.
4. To hold reinforcing bars in their true position and prevent displacement, standard tie and anchorage devices must be provided. Placing of reinforcement shall conform to ACI 318-14 Section 26.6.2.
5. Shop drawings for fabrication of any reinforcing steel shall be approved by Contractor and submitted to Architect or Structural Engineer, for his review, prior to fabrication.
6. Refer to typical details for minimum splice length and minimum radius of bend, of reinforcing steel.
7. Stagger splices in reinforcing steel, unless specifically noted otherwise.
8. All reinforcing bar bends shall be made cold.
9. Fabrication, erection and placement of reinforcing steel shall conform to Concrete Reinforcing Steel Institute of Standard Practice.
10. All welded wire mesh shall conform to ASTM A185. Lap all wire mesh two modules.
11. Reinforcing steel shall be clean of rust, grease or other material likely to impair bond.

RETAINING WALL NOTES

1. See Project Soils Investigation (if provided) and specific retaining wall details for additional requirements. Project Soils Investigation shall take precedence over these notes and specific retaining wall details.
2. Before backfilling wall, a granular drainage material (refer to note #3) shall be placed behind the wall in a continuous 12" (minimum) wide strip. The drainage material shall extend the full height of wall up to 12" below top of the higher grade.
3. Granular drainage material shall consist of gravel or crushed stone, and shall be free of organic material, clay or other deleterious material.
4. Drainage and backfill material shall not be placed until concrete and/or masonry has reached design strength.
5. Backfilling and compaction:
   A. Free-standing walls - Do not backfill wall until 7 days or 70% of design strength (minimum) after placing of concrete or solid grouting of wall is completed. Backfill material shall be placed in continuous 12" lifts (for entire length of wall) and compacted with lightweight tampers. Do not frame wood stud walls or joist floors, or pour concrete slabs (at top of retention) until 7 days (minimum) after backfilling and compaction operation is complete.
   B. Top-restrained walls (structural concrete slab or wood floor anchored at top of wall) - wall shall be securely shored and braced prior to backfilling and compaction operation is begun. Backfilling and compaction operations may begin after wall has reached design strength and shoring completed. Backfill material shall be placed in continuous 12" lifts (for entire length of wall) and compacted with lightweight tampers. Shoring shall remain in place until backfilling and compaction is completed and concrete slab (at top of wall) has reached design strength or wood floor framing is completed and inspected.
6. All footings shall be poured against undisturbed ground or approved fill (as determined by Project Soils Engineer).
7. Contractor shall notify Architect or Engineer of Record if superimposed loading occurs from adjacent existing foundations or other structures within a distance equal to the overall height of the wall.
8. Maximum uphill slope behind wall (unless otherwise noted) shall be one (1) (vertical) to five (5) (horizontal).
9. A 4" (minimum) diameter perforated drain pipe (with perforations placed downward) shall be placed at the top of the footing and completely surrounded by granular drainage material (refer to note #3). Drain pipe shall have a minimum 2% slope to daylight.
10. Before granular drainage material and backfill is placed, the entire backside (retention side) of wall shall be thoroughly waterproofed.
11. A synthetic permeable fabric shall be installed between gravel drainage material and backfill material, to prevent infiltration of native soils or backfill material into drainage material.

DRILLED CAISSON/PIER AND GRADE BEAM NOTES

1. Excavations for drilled caissons/pier shall be performed in compliance with local grading codes and ordinances as well as CBC Chapters 18A and 33A, and as recommended by Project Soils Investigation.
2. Provide Special Inspection in accordance with CBC Section 1705A.8 and Table 1705A.8.
3. Excavations for all drilled caissons/piers shall be approved by the Project Geotechnical Engineer prior to placing of concrete.
4. Reinforcement for drilled caissons/pier shall be approved by the Structural Engineer of Record prior to placing in caisson/pier excavation.
5. De-water caisson/pier footings and building excavation as required to maintain dry working conditions.
6. Caisson/piers are to be poured by end of day after completion of drilling operation. all concrete for a particular caisson/pier shall be on the job site prior to drilling the pile hole.
7. The Contractor shall be responsible for all shoring, bracing, etc. necessary to support cut and/or fill banks, and existing structures during excavation, and the forming and placement of concrete.
8. Bottom of caissons/piers shall be thoroughly cleaned prior to placement of concrete.
9. Grade beam reinforcement:
   A. Stagger splices in horizontal reinforcement.
   B. Locate splices between the ½ and ½ spans (between caisson/piers) of grade beams, unless noted otherwise.

STRUCTURAL STEEL AND WELDING (Specification 05 12 00)

1. All structural steel construction shall conform to AISC 360-16 and AISC 341-16.
   A. Fabrication of all structural steel shall be done in the shop of an approved fabricator. Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704A.2.5.
2. All structural steel shall conform to the following specifications:
   A. Angles, channels, plates, bars, rounds, and other miscellaneous shapes shall conform to ASTM A-36 and shall have a minimum yield stress (f_y) of 36 ksi
   B. Wide-flange shapes shall conform to ASTM A992 and shall have a minimum yield stress (f_y) of 50 ksi
   C. Structural tubes shall be ASTM A500 Grade B, and shall have a minimum yield stress (f_y) of 46 ksi
   D. Round structural tubes shall be ASTM A500, Grade B and shall have a minimum yield stress (f_y) of 42 ksi
3. Special Inspection shall be provided for all structural steel and welding, in accordance with CBC Chapter 17A.
4. All structural steel shall be fabricated, erected and welding in accordance with AISC specifications for structural steel buildings (AISC 360-16) and Code of Standard Practice for Steel Buildings and Bridges (AISC 303-16).
5. All welding shall be done by qualified and certified welders.
6. No field welding permitted, unless specifically noted otherwise.
7. Shop drawings for the fabrication of any structural steel shall be approved by Contractor and submitted to Architect or Structural Engineer for his review, prior to fabrication.
8. No holes other than those specifically detailed shall be allowed through structural steel members. Burning of holes is not permitted.
9. All structural steel shall be painted one shop coat and field touched-up, as necessary, with approved "zinc rich" or other high quality exterior primer, U.N.O.
10. All bolts shall conform to ASTM, A-325 (U.N.O.)
11. All welding shall conform to 'AWS D1.1 and D1.8' specifications for welding. (E-70xx electrodes).
12. All headed studs (for concrete anchorage) shall be manufactured by 'Nelson' or approved equal.
13. Where fillet weld size is not indicated, use 'AWS' minimum size based on the thickness of the thinner part being welded, as specified in AISC specifications for structural steel buildings (AISC 360-10), Section J2.2.
14. All butt welds to be full penetration, unless specifically noted otherwise.
15. Welder qualification requirements, welding procedure and welding electrodes for all structural steel (except structural sheet steel, see steel decking) shall conform to CBC Sections 1704A.3.1 and 2204A.1.
16. Provide hot dip galvanizing or 3" minimum concrete cover around all structural steel below grade.
17. Structural steel embedded into concrete or masonry shall be unpainted.

SEISMIC RESTRAINT AND ANCHORAGE NOTES

1. All equipment (see ASCE 7-10 Section 13.3.1 and Table 13.6-1) shall be seismically restrained and anchored. The restraining and anchorage shall conform to requirements within this section, as well as notes and details within project construction documents.
2. Equipment anchorage:

   Attachments of equipment weighing less than 400 pounds and supported directly on the floor or roof structure, furniture or temporary or movable equipment and equipment weighing less than 20 pounds that is supported by vibration isolation devices or suspended from the roof, wall or floor need not be detailed on the plans. (CBC Section 1616A.1.18 exemption). However, such equipment must be supported and anchored to resist the forces prescribed by ASCE 7-10 Section 13.3.1 as adopted by CBC Chapter 16A and the anchorage shall be approved by the Structural Engineer of Record and DSA the inspector of record shall assure that the above requirements are enforced.
3. Cabinet anchorage:

   Vertical load req. CBC 1607A.1
   Lateral force req. ASCE 7-10 Section 13.3.1

   Provide bracing and anchorage details for wall hung cabinets and floor support storage racks, cabinets and book stacks over five feet in height. Design supporting partitions and walls to resist forces applied by cabinet anchorages.
4. Pipe and duct support:

   Pipes, ducts and conduits shall be supported and braced per ASCE 7-10 Chapter 13

POWER DRIVEN SHOT PINS - (LOW VELOCITY):

1. Shot pins may be used for shear loads and they may be used in tension to support loads less than 100 pounds for minor loads, such as acoustical ceilings, duct work, conduit, etc. Any shot anchors must have ICBO approval for the type of concrete used on the job. Shot pins may not be used in concrete curbs.
2. The allowable loads shall be 100 pounds or 80% of ICBO approved values, whichever is less. Qualifications for use of all power actuated tools must meet ANSI A10.3 standard as required by the manufacturer and all osha requirements.
3. Testing - The operator, tool, and fastener shall be prequalified by the Project Inspector. He shall observe the testing of the first 10 fastener installations. A test "pull-out" load of not less than twice the design load shall be applied to the pin in such a manner as not to resist the spalling tendency of the concrete surrounding the pin. Thereafter, random tests under the Project Inspector's supervision shall be made of approximately 1 in 10 pins. If any pin fails testing, test all pins of the same category not previously tested until twenty (20) consecutive pass, then resume the initial testing frequency.
4. These requirements are to be noted on the plans, or in the specifications.

STRUCTURAL DESIGN VALUES

All values reported are unfactored and strength level, unless noted otherwise

Gravity Design Data	Value
Dead Loads:	
Roof Dead Load	13.0 psf
Floor Dead Load	N.A. psf
Exterior Wall Dead Load	N.A. psf
Interior Wall Dead Load	N.A. psf
Live Loads:	
Roof Live Load (Reducible)	20.0 psf
Floor Live Load	N.A. psf
Snow Loads:	
Ground Snow Load, P_s	0 psf
Deflection Criteria:	
Roof, Total Load	L/240
Roof, Live Load	L/360
Floor, Total Load	L/240
Floor, Live Load	L/360

Wind Design Data	Value
Design Wind Speed (3-sec gust), V_{ULT}	115 mph
Design Wind Speed (3-sec gust), V_{ASD}	85 mph
Risk Category	II
Exposure Category	C
Applicable Internal Pressure Coefficient	± 0.18
Design Wind Pressure(s) for Components & Cladding (Not specifically designed by the Registered Design Professional, and to be modified by applicable factors per ASCE 7)	q_z = 24.4

Earthquake Design Data		Value
Risk Category		II
Importance Factor, I_e		1.25
Mapped Spectral Response Accelerations		S_s= 1.086 g S_1= 0.400 g
Site Class		D
Spectral Response Coefficients		S_{DS}= 0.771 g S_{D1}= 0.427 g
Seismic Design Category		D
Analysis Procedure Used	Equivalent Lateral Force Procedure (ASCE 7, 12.8)	
Basic Seismic-Force Resisting System - Canopies	Steel Ordinary Cantilevered Columns	
Response Modification Coefficient		R= 1.250
Seismic Response Coefficient		C_s= 0.771
Design Base Shear		V= C_s W_D

Geotechnical Design Data	Value
Geotechnical Report prepared by: BSK Associates (Project No. G18-268-11B)	Dated: Nov. 26, 2018
Allowable Soil Bearing Pressure (DL + LL)	2,000 psf
Design Active Pressure, P_a	40 pcf
Design At-Rest Pressure, P_a	60 pcf
Design Passive Pressure, P_p	380 pcf
Design Coefficient of Friction, f_f	0.30
Design Skin Friction, f_s	N.A. psf

SPECIFICATIONS ON SHEETS S0000-S0002 APPLY TO SHEETS S1100-S8000 ONLY. FOR MODULAR BUILDINGS, SEE PRE-APPROVED PLAN SHEETS N1.0-03 AND N2.0-03.

ABBREVIATIONS

A.B.	Anchor Bolt	IBC	International Building Code
ABV.	Above	ICC	International Code Council
ACI	American Concrete Institute	ICF	Insulated Concrete Form
ADD'L	Additional	ID	Inside Diameter
ADJ.	Adjacent	IN.	Inch,Inches
AHJ	Authority Having Jurisdiction	INT.	Interior
AISC	American Institute of Steel Construction	JST.	Joist
AITC	American Institute of Timber Construction	ksi	Kips per Square Inch
AOR	Architect of Record		
APA	American Plywood Association	LL	Live Load
APPROX.	Approximate(ly)	LW	Lightweight
ASCE	American Society of Civil Engineers	LSL	Laminated Strand Lumber
		LVL	Laminated Veneer Lumber
ARCH.	Architect, Architecture		
ASTM	American Society of Testing and Materials	MAX.	Maximum
		MB	Machine Bolt
ATR	All Thread Rod	MBM	Metal Building Manufacturer
AWS	American Welding Society	MECH.	Mechanical
		MSE	Mechanically Stabilized Earth
BLDG.	Building	MFR.	Manufactured, Manufacturer
BLK.	Block	MIN.	Minimum
BLKD.	Blocked	MPH	Miles per Hour
BLK'G	Blocking	MTL.	Metal
BM.	Beam		
B.O.	Bottom of _____	(N)	New
BOT.	Bottom	NDS	National Design Specification
BRG.	Bearing	N.T.S.	Not to Scale
b/t	Between		
		o.c.	On Center
CAC	California Administrative Code	o/	Over
CANT.	Cantilever	OD	Outside Diameter
CBC	California Building Code	OSB	Oriented Strand Board
CIP	Cast-in-place	OSHPD	Office of State Health Planning and Development
CJ	Control Joint		
CJP	Complete Joint Penetration	OWSJ	Open Web Steel Joist
℄	Centerline		
CLG.	Ceiling	PEN.	Penetration
CLR.	Clear	PL.	Plate
CMU	Concrete Masonry Unit	PLYWD.	Plywood
COL.	Column	PJP	Partial Joint Penetration
CONC.	Concrete	psi	Pounds per Square Inch
CONN.	Connection	PSF	Pounds per Square Foot
CONST.	Construction	PSL	Parallel Strand Lumber
CONT.	Continue, Continuous		(Paralam)
CSK.	Countersink	PEMB	Pre-Engineered Metal Building
		PERF.	Perforated
Ø	Diameter	PTDF	Pressure Treated Douglas Fir
d	Penny	PW	Puddle Weld
DBL.	Double		
DCW	Demand Critical Weld	Q.A.	Quality Assurance
DET.	Detail	Q.C.	Quality Control
DEMO	Demolition		
DF	Douglas Fir	RBS	Reduced Beam Section
DIAG.	Diagonal	RDWD	Redwood
DL	Dead Load	REBAR	Reinforcing Bar
DSA	Division of State Architect	REINF.	Reinforcement
DWGS.	Drawings	RET.	Retaining
		REQ'D	Required
EA.	Each		
E.F.	Each Face	S.F.	Square Feet
ELEC.	Electric, Electrical	SHT.	Sheet
ELEV.	Elevation	SHT'G	Sheathing
EMBED.	Embedded, Embedment	SIM.	Similar
E.N.	Edge Nailing	SIP	Structural Insulated Panel
EOR	Engineer of Record	SJI	Steel Joist Institute
EQ.	Equal	SLRS	Seismic Load Resisting System
EQUIP.	Equipment	SMS	Sheet Metal Screw
E.S.	Each Side	SQ.	Square
E.W.	Each Way	SS	Select Structural
(E)	Existing	STAGG'D	Staggered
EXP.	Expansion	STD.	Standard
EXT.	Exterior	STL.	Steel
		SW	Shearwall
FAB.	Fabricated	SEOR	Structural Engineer of Record
FDN.	Foundation		
F.F.	Finish floor	T&B	Top and bottom
FLR.	Floor	T&G	Tongue and Groove
F.O.	Face of _____	THR'D	Threaded
FRMG.	Framing	T.O.	Top of _____
FT.	Foot,Feet	TRL.	Triple
FTG.	Footing	TYP.	Typical
GA.	Gauge	UNBLKD.	Unblocked
GALV.	Galvanized	U.N.O.	Unless Noted Otherwise
GEOR	Geotechnical Engineer of Record	URM	Unreinforced Masonry
GLB	Glued-Laminated Beam	VERT.	Vertical
GYP. BD.	Gypsum Board	VIF	Verify in Field
HDR.	Header	w/	With
HD.	Holdown	w/c	Water/Cement Ratio
HORIZ.	Horizontal	WD.	Wood
HSS	Hollow Steel Section	W.P.	Working Point
HT.	Height	W.S.M.F.	Welded Steel Moment Frame
		WSS	Welded Steel Stud
		WT.	Weight
		WWM	Welded Wire Mesh

SYMBOLS

- Concrete Footing (OR)
- Elevation Reference
- Post, Column or Column Footing Reference -Refer to Schedules (#)
- Reference Note (#)
- Elevation Reference
- Detail Number Reference / Sheet Number Reference (DET / SHT)
- Holdown Location
- Shearwall Reference - Refer to Schedule (Minimum Shearwall Length) (# / (X'-X"))
- Fully Welded Fixed Beam Connection
- Concrete Wall
- Concrete Masonry Unit Wall
- Cast-in-Place Drilled Concrete Pier
- Typical Metal Deck Span Direction (SPAN)

AGENCY INFORMATION:

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OPSC or OSHPD PROJ. NO:		
PROJECT NO:	118934	(S18302)
DRAWN BY:	JSB	
CHK'D BY:	CJC	
ISSUE DATE:		

SHEET TITLE

STRUCTURAL NOTES

SHEET NUMBER

PHASE III

S0000

STRUCTURAL NOTES, CONTINUED

TEST VALUES NOTES:

1. Anchor diameter refers to the thread size for the wedge and shell categories and to the anchor outside diameter for the sleeve category.
2. Apply proof test loads to wedge & sleeve anchors without removing the nut if possible. If not, remove nut & install a threaded coupler to the same tightness of the original nut using a torque wrench & apply load.
3. For sleeve/shell internally threaded categories, verify that the anchor is not prevented from withdrawing by a baseplate or other fixtures. If restraint is found, loosen and shim or remove fixture(s) prior to testing.
4. Reaction loads from test fixtures may be applied close to the anchor being tested, provided the anchor is not restrained from withdrawing by the fixture(s).
5. Shell type anchor should be tested as follows:
   Visually inspect 25% for full expansion as evidenced by the location of the expansion plug in the anchor body. Plug location of a fully expanded anchor should be as recommended by the manufacturer, or, in the absence of such recommendation, as determined on the job site following the manufacturer's installation instructions, and;
   Proof load 50% as indicated in the table above, but not less than three anchors per day for each different person or crew installing anchors, or;
   Test 50% of the installed anchors per ACI 355.2.
   Test 100% of installed anchors for structural applications
6. Test equipment is to be calibrated by an approved testing laboratory in accordance with standard recognized procedures.
7. Testing should occur 24 hours minimum after installation of the subject anchors.

TEST VALUES	
WEDGE (CONCRETE)	HILTI KB-VTZ ANCHORS PER ESR-3904 OR EQUAL
TORQUE (FT-LBS)	* IF THE MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE IS LESS THAN THE TEST TORQUE NOTED IN THE TABLE, THE MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE SHOULD BE USED IN LIEU OF THE TABULATED VALUES.
25	
40	
60	
110	

STEEL DECKING

1. Steel decking shall be cold rolled steel conforming to ASTM A611, Grade C structural quality steel sheet, and have a minimum yield strength (F_y) of 38 ksi (U.N.O.)
   A. All steel decking shall conform to CBC Section 2210A.
   B. All galvanized steel decking shall conform to ASTM A653, SS Grade 33.
2. Steel Decking Manufacturer shall submit shop drawings to Architect/Engineer of Record for their review and approval prior to fabrication.
3. All decking side locks shall be compatible.
4. Steel decking shall have a prime painted finish.
5. Steel decking sheets shall be continuous over a minimum of 3 supports (2 spans).
6. Steel deck shall be placed on the supporting framework with a minimum end lap of 2 inches, centered over the supports.
7. The deck shall be welded to the supports and side lap of adjacent units welded as shown on these Structural Drawings. Steel roof deck shall be welded as follows (size & type as Manufacturers requirements):
   A. 5 welds minimum per sheet at all supports perpendicular to span
   B. 1½" side lap welds at 18" o.c. maximum
   C. Spot welds @ 18" o.c. maximum to supports parallel to span
8. Welding of steel deck shall be in accordance with latest AWS D1.4, Specifications for welding sheet steel in structures and as shown on these Structural Drawings.
9. Steel deck shall be erected and fastened in accordance with the Manufacturer's Specifications and erection layout, as well as requirements set forth in these Structural Drawings.
10. No holes shall be cut into steel decking unless specifically noted or detailed otherwise, see Structural Details.
11. Weld metal shall penetrate all layers of deck material at each end and side joints and have good fusion to the supporting members.
12. Electrodes E70 with a minimum size of ⅜".
13. For welding of structural sheet steel, welder qualification requirements, welding procedures and welding electrodes shall conform to CBC Section 2210A and AWS D1.3-10.
14. Continuous inspection is required for steel decking welding.
15. Galvanizing shall conform to ASTM A924.

WOOD

1. Lumber grades, minimum (UNO): Douglas Fir-Larch

2x studs, blocking & plates:	
bearing walls	No. 2 or better
non-bearing walls	Construction or better
2x joists	No. 2 or better
4x beams	No. 2 or better
6x beams:	
exposed (int/ext)	Select Structural or better
non-exposed	No. 1 or better
4x posts	No. 2 or better
6x posts	No. 1 or better

2. Foundation sill plates shall be California Redwood (close grain) or preservative-treated (see CBC Section 2303.1.9) Douglas Fir. Refer to Project shear wall schedules and foundation plan for anchor bolt size and spacing.
3. Rated sheathing shall be Structural I with exterior glue, as graded by the APA.
   A. Rated sheathing shall conform to CBC Section 2303.1.5
   B. OSB shall conform to United States Product Standard PS 1 OR PS 2.
4. All sawn lumber or timber shall conform to CBC Section 2303.1.1.
5. Maximum moisture content for all structural members shall not exceed 19% (unless specifically noted otherwise).
6. Treat faces of all cut preservative treated lumber.

WOOD FASTENERS

1. Nailing for framing shall be with 'common' nails (U.N.O.).
2. Lag screws shall be screwed into predrilled holes. Clearance hole for the shank portion and lead hole for threaded portion shall be drilled in accordance with NDS-15 Section 12.1.4.
3. Bolts (bolt head and nut) shall have standard cast iron malleable iron washers (unless used with metal side plates or angles).
4. Bolt holes through lumber shall be drilled a maximum of 1/32" larger than bolt diameter.
5. All bolts shall conform to ASTM A307.
6. Bolt tightening: Take up snug and re-tighten at the latest practicable time during construction.
7. Nails shall not be driven closer than ½ of their length, not closer to the edge of the member than ¼ length, except for sheathing.
8. Sub-bore when nails tend to split wood. Sub-bore for 20d and larger nails. Drill diameter shall be 0.75 times nail diameter.
9. Fasteners in preservative-treated lumber shall be stainless steel, silicon bronze, copper or hot-dip zinc coated galvanized steel fasteners.
   A. Zinc-coated fasteners shall conform to ASTM A653, Type G185.

CARPENTRY/FRAMING

1. Carpentry and framing shall conform to CBC Section 2304.
   A. Refer to Fastener Schedule included in the Structural Notes
2. Metal framing angles, anchors, clips, straps, ties, holdowns, etc. shall be manufactured by 'Simpson Strong-Tie Co.' or an approved equal.
3. Rated sheathing used in roofs, floors and decks, shall be placed with face grain perpendicular to supports. Rated sheathing sheets shall be staggered.
4. Face nail all double (and triple) 2x studs and joists together with 16d @ 12" o.c., Stagger nails.
5. Unless noted otherwise, the minimum sill plate bolting shall be ⅝" diameter x 10" anchor bolt @ 4'-0" o.c.. There shall be a minimum of two bolts per plate with one bolt within 6" to 12" of each end of plate. Refer to Wood Note #2 and Wood Fasteners Note #9.
6. Interior non-bearing, non-shear, stud wall sill plates may be secured to concrete slabs with "Hilti" type X-U (with 1" minimum embedment) shot pins @ 16" o.c. with steel washers. Installation shall conform to ICC-ES ESR-2269.
7. In general, sheathing panel edges (for shear walls, roofs, floors and decks) shall bear on framing members (2x minimum).
8. Place beams with natural camber upward.
9. Provide continuous double 2x wall width (2x4, minimum) plates at top of all bearing walls and 2x wall width bottom or sill plate at bottom of wall. Unless otherwise specifically noted or detailed splices in continuous double 2x top plates shall be lapped 4'-0" (minimum) with 16d @ 6" o.c. (staggered).
10. Where wood stud walls abut concrete or masonry walls, the end stud (PTDF or Redwood) shall be bolted to concrete/masonry with ⅝" diameter A.B. (with embedment of ½ wall thickness) 12" from top and bottom of stud and at 4'-0" o.c. The bolts shall be centered on the stud.
11. Provide 2x solid blocking between all joists and rafters at all supports and under all partitions. Provide double 2x joists directly below all interior partition where framing is parallel. Provide 2x solid blocking (or approved bridging) at 8'-0" o.c. between 2x12 and larger joist and rafters. Blocking shall be full depth of joists and rafters.
12. No structural members (joists, plates, studs, beams, columns, girder, post, truss, etc.) shall be notched, cut or drilled (except for those holes required for bolting) unless specifically noted (Refer to notes #13 and #14 below) or detailed otherwise, or with written approval from Architect/Engineer of Record.

CARPENTRY/FRAMING (CONT.)

13. Holes and notches in joists:
   A. Notching at the ends of roof or ceiling joists shall not exceed one-fourth the joist depth. Notches in the top & bottom of joists (2x, sawn lumber) shall not exceed one sixth the depth and shall not be located in the middle third of the span.
   B. Holes bored in joists shall not exceed one third of joist depth and shall be located within middle ⅓ of span and within the middle third of joists depth (2" minimum clear top and bottom).
14. Holes and notches in studs, plates and sills: Bored holes may be placed in studs, plates and sills provided they are accurately centered about stud, spaced a minimum of 12" apart and hole diameter does not exceed 25% of stud width. Studs may be notched provided notch depth does not exceed 25% of stud width. When bored hole exceeds 25% of stud width, reinforce plate, sill or studs as follows:
   A. Plates: 1½" x ½" strap each side of plate nailed with 6-16d nails each side of hole. Holes over 40% of the plate width are not permitted in any plate. Any pipe or conduit requiring a hole larger than 40% of the plate width shall be brought to the attention of the engineer immediately.
   B. Sills: Splice in a manner similar to plates above, at holes between 25% and 40% of sill width. Sills may be completely cut on each side of a pipe or conduit provided an additional anchor bolt or 6-16d is placed within 9" of the end of the sill, each side of the pipe or conduit.
   C. Studs: Block on each side of stud with block of same material and dimension as stud; extend 2 stud widths each side of hole and provide 3-16d nails to stud each side of hole. Bored holes greater than 40%, but less than 60% of the width of the stud are permitted, where each stud is doubled and not more than two successive double studs are so bored and each bored stud is reinforced as above.
   D. Bored holes shall not be located at the same section of stud as a cut or notch.
15. Rated sheathing shear walls shall be constructed in accordance with CBC Section 2306.3. No openings are allowed in shear walls, unless specifically noted or detailed.
16. Provide 3"x3"x5/16" steel plate washers at anchor bolts at all structural walls.
17. Framing around flues and chimneys shall conform to CBC Section 2304.5.
18. Pipes in walls shall conform to CBC Section 2308.5.8.

STRUCTURAL GLUED-LAMINATED LUMBER

1. All glued-laminated lumber or timber shall be of the following:
   A. Standard glued-laminated beams (GLB) shall be 2400F Douglas Fir, (24F-V8 DF/DF) industrial appearance grade and conform to ASTM D3737 and AITC A190.1, (24F-V4-DF/DF may be used for simple spans as specified on framing plans)

      F_b = 2,400 psi
      F_v = 165 psi
      $F_{c\perp}$ = 450 psi
      E = 1,800,000 psi

   B. Rosboro Bigbeams (R.B.B.) shall be 2.1E and conform to ANSI A190.1-2:

      F_b = 3,000 psi (2,800 psi for 7x beams)
      F_v = 300 psi
      $F_{c\perp}$ = 650 psi
      E = 2,100,000 psi

2. The manufacture of the glued-laminated lumber shall be in accordance with the latest Standard Specifications for Structural Glue-laminated Timber by the AITC.
3. AITC Inspection Certificates shall be supplied to the Authority Having Jurisdiction for approval, prior to installation.
4. Beams shall be end sealed against the elements/weather and load wrapped for protection during shipment.
5. The beams shall have standard camber unless specifically called out otherwise on drawings.
6. Shop drawings for the fabrication of glued-laminated timber, shall be approved by contractor and submitted to the Architect/Engineer for his review, prior to installation.
7. Glued-laminated beams shall not be notched, or have holes drilled through unless specifically noted otherwise.
8. Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704.2.5.
   A. Labeling (as required or specified) shall be provided in accordance with CBC Section 1703.5.
   B. Evaluation and follow-up inspection services (as required or specified), shall conform to CBC Section 1703.6.1.

'REDBUILT' STRUCTURAL COMPOSITE LUMBER AND PLYWOOD WEB TRUSSES

1. All structural composite lumber or timber shall be of the following:
   A. Standard Laminated Veneer lumber (LVL) material shall conform to ASTM D5456:

      F_b = 2,900 psi
      F_v = 285 psi
      $F_{c\perp}$ = 750 psi
      E = 2,000,000 psi

2. Standard LVL material shall be 'Redlam Laminated Veneer Lumber' as manufactured by Redbuilt (ICC-ES ESR-2993).
3. Beams shall be end sealed against the elements/weather and load wrapped for protection during shipment.
4. Beams shall have standard camber unless specifically called out otherwise on drawings.
5. Beams shall not be notched, or have holes drilled through unless specifically noted otherwise.
6. All prefabricated plywood web joists (I-Joists) shall conform to ASTM D5055.
   A. Plywood web joists shall be 'Red-I' joists as manufactured by Redbuilt (ICC ESR-2993 and ESR-2994)
7. Each joist shall be legibly branded, marked or otherwise have permanently affixed thereto the following information located within 2 feet of the center of the span on the face of the bottom chord:
   A. Identity of the company manufacturing the joist.
   B. The design load.
   C. The spacing of the joists.
8. Prior to fabrication of joists, contractor shall submit truss design, calculations and details (as provided by joist manufacturer) to Architect/Engineer of Record for their review, and to the Authority Having Jurisdiction for their approval.
9. Joists shall bear on 'bearing walls' only.
10. Interior 'non-bearing walls' shall be isolated from vertical joists loads.
11. Joists shall be blocked as per manufacturer's recommendations in addition to:
   A. All bearing points
   B. Ridge
12. Joists shall be installed with all bearing hardware, bridging, blocking, bracing, pre-notched bearing plates or beveled bearing plates as per manufacturer's recommendations and these drawings. The preceding items shall be installed prior to any joist loading.
13. If joists are to be stored prior to erection, they shall be stored in a vertical position and protected from the weather.
14. Temporary construction loads shall not be placed on joists until joists are secured and all erection hardware (blocking, bridging, bracing, bearing hardware, etc.) has been placed. Temporary construction loads shall not exceed live loads as specified in Structural Design Values Chart.
15. If erection bracing is specified, then bracing shall remain in place until floor/roof sheathing is placed and nailed (or fastened).
16. Provide floor joists (or 2x blocking @ 2'-0 o.c.) below all interior walls, unless otherwise noted or detailed.
17. Joist design criteria: See Structural Design Values
18. Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704.2.5.
   A. Labeling (as required or specified) shall be provided in accordance with CBC Section 1703A.5.
   B. Evaluation and follow-up inspection services (as required or specified), shall conform to CBC Section 1703A.6.1.

STRUCTURAL STEEL SEISMIC LOAD RESISTING SYSTEM (SLRS)

QUALITY ASSURANCE (QA) & QUALITY CONTROL (QC) REQUIREMENTS

1. In addition to the items below, see Structural Notes for Special Inspection and structural steel requirements.
2. Inspector qualifications
   A. Quality Assurance (QA) welding inspectors shall be qualified in accordance as outlined in AWS D1.8 Section 7.2.1 & AISC 341 Chapter J.
   B. Quality Assurance (QA) non-destructive testing personnel shall be qualified in accordance with their employer's written practice which shall meet or exceed the criteria the American Society for Nondestructive Testing (ASNT) recommended practice; SNT-TC-1A OR CP-189.
   C. Quality Control (QC) welding inspectors shall be associate welding inspectors or higher as defined in AWS B5.1, or otherwise qualified under the provisions of AWS D1.1 Section 6.1.4, and to the satisfaction of the contractor's QC program.
   D. Ultrasonic testing technicians shall be certified as level II or level III by their employer or certified as ASNT level III through examination by the ASNT. All required ultrasonic testing shall be performed only by certified UT technicians.
3. Required documentation
   A. Quality Control (contractor documents)
      i. Quality Control documents shall be submitted for review by the Engineer of Record (EOR) prior to fabrication or erection as applicable.
      ii. Quality Control documents shall be defined as those outlined in AISC 341 Chapter J, Section J2 & AISC 360 Chapter N, Section N2.
      a. Welding procedure specifications, which shall specify all applicable variables of AWS D1.1 and the following:
         - Power source.
         - For demand critical welds (DCW), electrode manufacturer and trade name.
   B. Quality Assurance agency documents
      i. The agency responsible for quality assurance (QA) shall submit documentation outlined in AISC 341 Chapter J, Section J3 to the Authority Having Jurisdiction, the Engineer of Record, and the owner or owner's agent.
4. Inspection points and frequencies
   A. Inspection points and frequencies of Quality Control (QC) & Quality Assurance (QA) tasks and documentation for the Seismic Load Resisting System (SLRS) shall be as provided in tables from AISC 341, Chapter J, Section J5.
   B. Inspection of welding
      i. Visual inspection of welding shall be the primary method used to confirm that the procedures, materials, and workmanship incorporated in construction are those that have been specified and approved for the project. As a minimum the tasks shall be those set forth in AISC 341, Chapter J, Section J6.1.
      ii. Non-destructive testing of welds shall comply with AISC 341, Chapter J Section J6.2.
      iii. Additional welding provisions for demand critical welds (DCW) shall be per AISC 341, Chapter J, Section J6.2b and have notch toughness verification tests performed per AISC 341 Section A.4b.
   C. Inspection of bolting
      i. Visual inspection of bolting shall be the primary method used to confirm that the procedures, materials, and workmanship incorporated in construction are those that have been specified and approved for the project. As a minimum the tasks shall be those set forth in AISC 341, Chapter J, Section J7.
   D. Heavy sections shall comply with AISC 341, Chapter A, Section A.
5. The governing welding standard shall be determined by the type of structural weld being performed. Weld types shall be as referenced on the approved contract documents. See chart below:

Structural weld type (1)	Governing code & standards
Structural Weld NOT Part of the SLRS	AWS D1.1 AISC 360 J2
Structural Weld identified as part of the SLRS	AWS D1.1, AWS D1.8 AISC 360 J2
Structural Weld identified as part of the SLRS & Demand Critical Weld (DCW)	AWS D1.1, AWS D1.8 AISC 341 A4.b & J6.2b AISC 358

(1) As identified on the approved contract documents

FASTENING SCHEDULE (CBC T2304.10.1)

Connection	Fastening (Common or box nails are permitted to be used except where otherwise stated)	Location
1. Blocking between joists or rafters to top plate	3 - 8d Common (2½"x0.131") 3 - 3"x0.131" Nails	Toenail, each end
2. Ceiling joists to plate	3 - 8d Common (2½"x0.131") 3 - 3"x0.131" Nails	Toenail
3. Ceiling joists, laps over partitions	3 - 16d Common (3½"x0.162") minimum, Table 2308.7.3.1 4 - 3"x0.131" Nails	Face nail
4. Ceiling joists to parallel rafters	3 - 16d Common (3½"x0.162") minimum, Table 2308.7.3.1 4 - 3"x0.131" Nails	Face nail
5. Collar tie to rafter	3 - 10d Common (3"x0.148") 4 - 3"x0.131" Nails	Face nails
6. Rafter to plate	3 - 10d Common (3"x0.148") 4 - 3"x0.131" Nails	Toenail
7. Roof rafter to 2x ridge board	2 - 16d Common (3½"x0.162") 3 - 3"x0.131" Nails	Toenail
	2 - 16d Common (3½"x0.162") 3 - 3"x0.131" Nails	End nail
8. Jack rafter to hip	3 - 10d Common (3"x0.148") 4 - 3"x0.131" Nails	Toenail
	2 - 16d Common (3 1/2"x0.162") 3 - 3"x0.131" Nails	End nail
9. Built-up corner studs	16d Common (3½"x0.162") @ 24" o.c. 3"x0.131" Nails @ 16" o.c.	Face nail
10. Built-up header, two pieces	16d Common (3½"x0.162") @ 16" o.c.	Face nail
11. Continuous header to stud	4 - 8d Common (2½"x0.131")	Toenail
12. Double top plates	16d (3½"x0.162") @ 16" o.c. 3"x0.131" Nail @ 12" o.c.	Typical face nail
	8 - 16d Common (3½"x0.162") 12 - 3"x0.131" Nails	Lap splice, minimum 24" lap
13. Double studs	16d (3½"x0.162") @ 24" o.c. 3"x0.131" Nail @ 16" o.c.	Face nail
14. Sole plate to joist or blocking	16d (3½"x0.162") @ 16" o.c. 3"x0.131" Nails @ 8" o.c.	Typical face nail
15. Sole plate to joist or blocking at braced wall panel	2-16d (3½"x0.162") @ 16" o.c. 4 - 3"x0.131" Nails @ 16" o.c.	Braced wall panels
16. Stud to sole plate	4 - 8d Common (2½"x0.131") 4 - 3"x0.131" Nails	Toenail
	2 - 16d Common (3½"x0.162") 3 - 3"x0.131" Nails	End nail
17. Top plate to stud	2 - 16d Common (3½"x0.162") 3 - 3"x0.131" Nails	End nail
18. Top plates, laps and intersections	2 - 16d Common (3½"x0.162") 3 - 3"x0.131" Nails	Face nail
19. 1" diagonal brace to each stud and plate	2 - 8d Common (2½"x0.131") 2 - 3"x0.131" Nails	Face nail
20. 1"x8" sheathing to each bearing	3 - 8d Common (2½"x0.131")	Face nail
21. Wider than 1"x8" sheathing to each bearing	3 - 8d Common (2½"x0.131")	Face nail
22. Joist to sill or girder	3 - 8d Common (2½"x0.131") 3 - 3"x0.131" Nails	Toenail
23. Rim joist to top plate	8d (2½"x0.131") @ 6" o.c. 3"x0.131" Nail @ 6" o.c.	Toenail
24. 1"x6" Subfloor or less to each joist	2 - 8d Common (2½"x0.131")	Face nail
25. 2" Subfloor to joist or girder	2 - 16d Common (3½"x0.162")	Blind and face nail
26. 2" planks	16d Common (3½"x0.162")	At each bearing
27. Built-up girder and beams	20d Common (4"x0.192") 32" o.c. 3"x0.131" Nail @ 24" o.c.	Face nail at top and bottom staggered on opposite sides
	2 - 20d Common (4"x0.192") 3 - 3"x0.131" Nail	Face nail at ends and at each splice
28. Ledger strip	3 - 16d Common (3½"x0.162") 4 - 3"x0.131" Nails	Face nail
29. Joist to band joist	3 - 16d Common (3½"x0.162") 4 - 3"x0.131" Nails	End nail
30. Bridging to joist or blocking	2 - 8d Common (2½"x0.131") 2 - 3"x0.131" Nails	Toenail each end
31. Wider than 1"x6" subfloor to each joist	3 - 8d Common (2½"x0.131")	Face nail

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PROJECT NO:	118934	(S18302)
DRAWN BY:	JSB	
CHK'D BY:	CJC	
ISSUE DATE:		

SHEET TITLE

STRUCTURAL NOTES

SHEET NUMBER

PHASE III

S0001

SPECIAL INSPECTION REFER TO DSA 103 FORM FOR THE ENFORCEMENT AGENCY'S TESTING AND INSPECTION LIST

GENERAL NOTES

1. All Special Inspection shall be provided in accordance with CBC Section 1704A and 1705A.
2. Where Special Inspection is required, all inspection or testing shall be provided by an "approved agency" in accordance with CBC Section 1702A.1, 1703A.1 and 1704A.1.
3. Special Inspectors shall keep records of inspections. The Special Inspector shall furnish inspection reports to the Authority Having Jurisdiction, and to the Architect or Structural Engineer of Record. Reports shall indicate that work inspected was done in conformance to approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Authority Having Jurisdiction and to the Architect or Structural Engineer of Record prior to the completion of that phase of work. A final report documenting required Special Inspections and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the permit applicant and the Authority Having Jurisdiction prior to the start of work.
4. Special Inspectors shall be approved by local Authority Having Jurisdiction in accordance with CBC Section 1704A.2.1.
5. Local Authority Having Jurisdictions may require Special Inspection for "Special Cases" in accordance with CBC Section 1705A.1.1
6. Contractor's responsibility: Each contractor responsible for the construction of a Main Lateral-Force-Resisting System, listed in the Statement of Special Inspection shall submit a written statement of responsibility to the Authority Having Jurisdiction and the owner prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain the following;
   A. Acknowledgement of awareness of the special requirements contained in the statement of special inspections;
   B. Acknowledgement that control will be exercised to obtain conformance with the construction documents approved by the Authority Having Jurisdiction;
   C. Procedures for exercised control within the contractor's organization, the method and frequency of reporting and the distribution of the reports; and
   D. Identification and qualifications of the person(s) exercising such control and their position(s) in the organization.
7. Refer to Special Inspection requirements by other disciplines not included herein.

SOILS[a]

Verification and Inspection	Continuous	Periodic
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		✓
2. Verify excavations are extended to proper depth and have reached proper material.		✓
3. Perform classification and testing of compacted fill materials.		✓
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	✓	b
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.		✓

Notes: Soils
a. CBC Section 1705A.6 and Table 1705A.6
b. With the approval of the Authority Having Jurisdiction and the recommendation of the Geotechnical Engineer of Record, Special Inspection of grading operations may be periodic per CBC Section 1704A.2, Exception 1.

CAST-IN-PLACE DEEP FOUNDATIONS[a]

Verification and Inspection	Continuous	Periodic
1. Inspect drilling operations and maintain complete and accurate records for each element.	✓	
2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end bearing strata capacity. Record concrete or grout volumes.	✓	
3. For concrete elements, perform additional inspections and see Concrete Construction chart, this sheet, in accordance with CBC Section 1705A.3.		

Notes: Cast-in-place Deep Foundations
a. CBC Section 1705A.8 and Table 1705A.8

SPECIAL CASES

Verification and Inspection	Continuous	Periodic
Adhesive anchors (Epoxy)		
1. Inspection of anchors installed in hardened concrete. Installed in horizontally or upwardly inclined orientations to resist sustained tension loads. (Concrete shall be cured for a minimum of 21 days)	✓	
2. All other installations of adhesive anchors.		✓
Mechanical anchors		
1. Inspection of anchors installed in hardened concrete.		✓

STEEL CONSTRUCTION[ab]

Verification and Inspection	Continuous	Periodic
Required verification and inspection of steel construction		
1. Material verification of structural steel, cold-formed steel deck, high-strength bolts, nuts and washers[b]:		
a. For structural steel, identification markings to conform to AISC 360, or ASTM Standards Specified in approved Construction Documents. Manufacturer's certificate of compliance required.		✓
2. Material verification of structural steel or cold-form steel deck[b]:		
a. Identification markings to conform to ASTM standards specified in the approved construction documents.		✓
b. Manufacturer's certified test reports.		✓
3. Inspection of high-strength bolting[m]:		
a. Snug-tight joints		✓
b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist off bolt or direct tension indicator methods of installation		✓
c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation	✓	
4. Material verification of weld filler materials:		
a. Identification markings to conform to AWS specification in the approved Construction Documents		✓
b. Manufacturer's certificate of compliance required		✓
5. Inspection of welding:		
a. Structural steel and cold formed steel deck:		
1) Complete and partial joint penetration groove welds	✓	
2) Multi-pass fillet welds	✓	
3) Single-pass fillet welds > 5/16"	✓	
4) Plug and slot welds	✓	
5) Single-pass fillet welds ≤ 5/16"		✓
6) Floor and roof deck welds[c]		✓
b. Reinforcing steel:[d]		
1) Verification of weldability of reinforcing steel other than ASTM A706.		✓
2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	✓	
3) Shear reinforcement	✓	
4) Other reinforcing steel		✓
6. Inspection of steel frame joint details for compliance:		
a. Details such as bracing and stiffening		✓
b. Member locations		✓
c. Application of joint details at each connection		✓
Inspection tasks prior to welding[o]		
1. Welding procedure specifications (WSPs) available	✓	
2. Manufacturer certifications for welding consumables available	✓	
3. Material identification (type/grade)		✓
4. Welder identification system[e]		✓
5. Fit-up of groove welds (including joint geometry) Joint preparation, dimensions, cleanliness, tacking, backing type and fit		✓
6. Configuration and finish of access holes		✓
7. Fit-up of fillet welds Dimensions, cleanliness, tacking		✓
8. Check welding equipment		
Inspection tasks during welding[o]		
1. Use of qualified welders		✓
2. Control and handling of welding consumables Packaging, exposure control		✓
3. No welding over cracked tack welds		✓
4. Environmental conditions Wind speed within limits, precipitation and temperature		✓
5. WPS followed Settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained min./max.),proper position (F, V, H, OH)		✓
6. Welding techniques Interpass and final cleaning, each pass within profile limitations		✓
Inspection tasks after welding[k]		
1. Welds cleaned		✓
2. Size, length and location of welds	✓	
3. Welds meet visual acceptance criteria Crack prohibition, weld/base-metal fusion, crater cross section, weld profiles, weld size, undercut, porosity	✓	
4. Arc strikes	✓	
5. k-Area[l]	✓	
6. Backing removed and weld tabs removed (if required)	✓	
7. Test of end welded studs.[l]	✓	
7. Repair activies	✓	
8 Document acceptance or rejection of welded joint or member	✓	

STEEL CONSTRUCTION, CONTINUED

Verification and Inspection	Continuous	Periodic
Inspection tasks prior to bolting[g]		
1. Manufacturer's certifications available for fastener materials	✓	
2. Fasteners marked in accordance with ASTM requirements		✓
3. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)		✓
4. Proper bolting procedure selected for joint detail		✓
5. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements		✓
6. Pre-installation certification testing by installation personnel observed and documented for fastener assemblies and methods used		✓
7. Proper storage provided for bolts, nuts, washer and other fastener components		✓
Inspection tasks during bolting		
1. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required		✓
2. Joint brought to the snug-tight condition prior to the pretensioning operation		✓
3. Fastener component not turned by the wrench prevented from rotating		✓
4. Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward the free edges, see Minimum Bolt Pretension table below		✓
Inspection tasks after bolting[l]		
1. Document acceptance or rejection of bolted connections	✓	

Notes: Steel Construction
a. CBC Section 1705A.2 and Table 1705A.2.2
b. CBC Section 1707A.11.1
c. AWS D1.3
d. AWS D1.4, ACI 318: Section 3.5.2
e. The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.
f. When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 inches of the weld
g. All methods of installation for high strength bolts shall require verification of pre-tension by a Skidmore-Wilhelm calibrator for each batch or source of bolts used (see minimum pre-tension chart below).
h. CBC Section 2205A.1, 2210A.1, & 2203A.1
i. CBC Section 2213A.1
j. CBC Section 2213A.1
k. CBC Section 1705A.2.1
l. CBC Section 2213A.2 & 1705A.2.1
m. CBC Section 1705A.2.1 and Table 1705A.2.1
n. CBC Section 1705A.2.1
o. CBC Section 1704A.2.5, 1705A.2

Minimum Bolt Pretension (kips)

Bolt size , inches	Group A (A325, etc.)	Group B (A490, etc.)
½" Diameter	12	15
⅝" Diameter	19	24
¾" Diameter	28	35
⅞" Diameter	39	49
1" Diameter	51	64
1⅛" Diameter	56	80
1¼" Diameter	71	102
1⅜" Diameter	85	121
1½" Diameter	103	148

CONCRETE CONSTRUCTION[ao]

Verification and Inspection	Continuous	Periodic
1. Verification of materials: Portland cement, aggregates and reinforcing bars[q]	✓	
2. Inspection of reinforcing steel including prestressing tendons, and placement.[c]		✓
3. Inspection of reinforcing steel welding in accordance with Table 1705A.3, Item 2 & Table 1705A.2, item 5b.[d]		✓
4. Inspection of anchors cast in concrete.[e]		✓
5. Inspection of anchors post installed in hardened concrete members.[b,f,p]		
6. Verifying use of required design mix and proportions of concrete.[g]		✓
7. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.[h]	✓	
8. Inspection of concrete and shotcrete placement for proper application techniques.[i]	✓	
9. Inspection for maintenance of specified curing temperature and techniques.[j]		✓
10. Inspection of prestressed concrete:[k] a. Application of prestressing forces b. Grouting of bonded prestressing tendons in the Seismic Force-Resisting System	✓	
11. Erection of precast concrete members.[l]		✓
12. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.[m]		✓
13. Inspect formwork for shape, location and dimensions of the concrete member being formed.[n]		✓
14. Inspection of batch plant.[r]	✓	

Notes: Concrete Construction
a. Where applicable, see also CBC Section 1705A.12, Special Inspections for seismic resistance
b. Specific requirements for Special Inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 318-14 Section 17.8.2 or other requirements. Where specific requirements are not provided, Special Inspection requirements shall be specified by the Registered Design Professional and shall be approved by the Building Official prior to the commencement of the work.
c. ACI 318: Ch. 20, 25.2, 25.3, 26.5-1-26.5.3, CBC: 1908.4
d. AWS D1.4, ACI 318: 26.5.4, CBC: 1903A.8, 1705A.3.1
e. ACI 318: 17.8.2
f. ACI 318: 17.8.2.4, 17.8.2, CBC: 1910A.5, Table 1705A.3, item 4a & 4b
g. ACI 318: Ch. 19, 26.4.3, 26.4.4, CBC: 1904.1, 1904.2, 1910A.1, Table 1705A.3,item 5
h. ASTM C172, ASTM C31, ACI 318: 26.4.5, 26.12, CBC: 1910A.4
i. ACI 318: 26.4.5, CBC: 1908.6, 1908.7, 1908.8
j. ACI 318: 26.4.7-26.4.9, CBC: 1908.9
k. ACI 318: 26.9.2.1, 26.9.2.3
l. ACI 318: Ch. 26.8
m. ACI 318: 26.10.2, 26.12, CBC: 1905A.1.1.6, Table 1705A.3
n. ACI 318: 26.10.1 (b), CBC: 1705A.3.5, 1705A.3.6
o. CBC Section 1705A.3 and Table 1705A.3
p. See Special Cases Special Inspection for more requirements
q. CBC Sections 1705A.3.2, 1910A.1, 1910A.5, 1910A.2
r. CBC Sections 1705A.3.3 & 1705A.3.3.1

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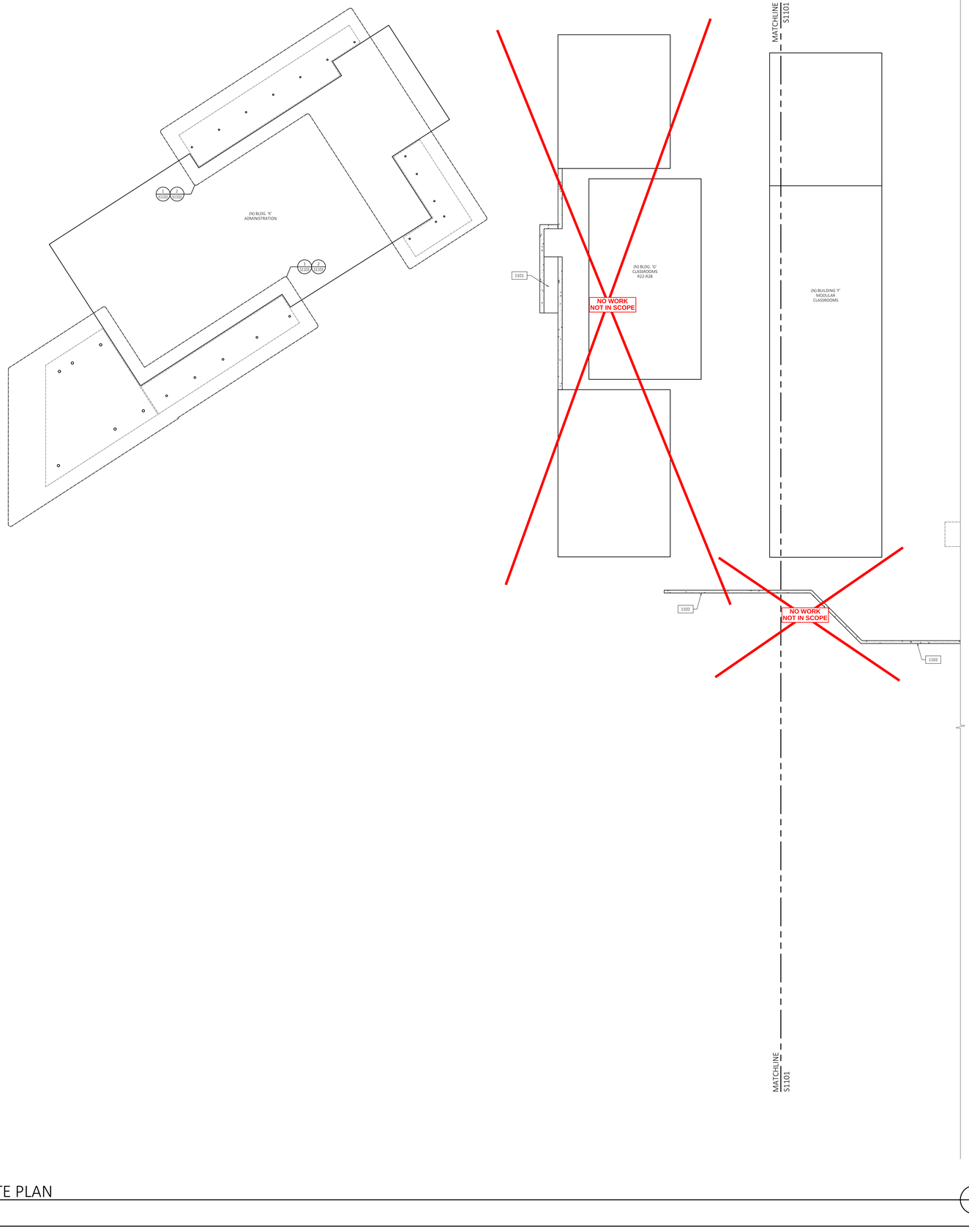
PHASE III

S0002



PARTIAL SITE PLAN
SCALE: 1/16" = 1'-0"

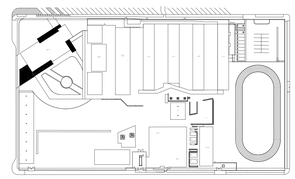
S1100-GENERAL NOTES

1. See Sheets S0000, S0001, and S0002 for general notes
2. See Sheets S1106, S1107, and S1108 for typical site details
3. Refer to Civil, Plumbing, and Electrical Drawings for underground utilities

S1100-KEYNOTES

1101. Concrete ramp. See 8/A8002
1102. Concrete wall. Refer to Architectural drawings for concrete seating areas. See 22-30/A8002
1103. Not Used
1104. Not Used
1105. Existing canopy to remain

KEYPLAN



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PARTIAL SITE PLAN

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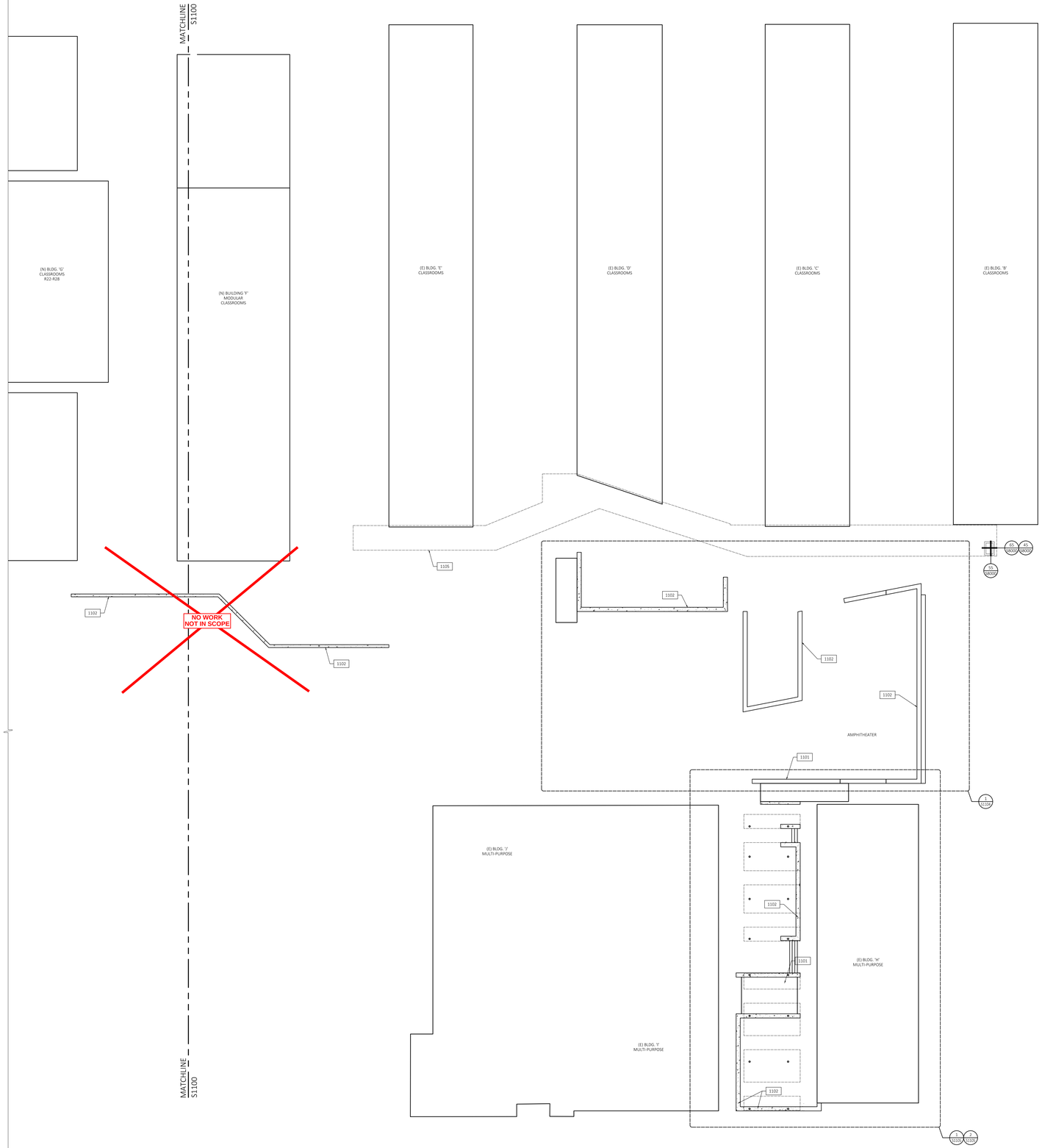
PHASE III

S1100



PARTIAL SITE PLAN

SCALE: 1/16" = 1'-0"

S1101-GENERAL NOTES

1. See Sheets S0000, S0001, and S0002 for general notes
2. See Sheets S1106, S1107, and S1108 for typical site details
3. Refer to Civil, Plumbing, and Electrical Drawings for underground utilities

S1101-KEYNOTES

1101. Concrete ramp. See 8/A8002

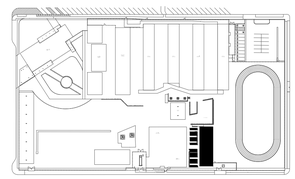
1102. Concrete wall. Refer to Architectural drawings for concrete seating areas. See 22-30/A8002

1103. Not Used

1104. Not Used

1105. Existing canopy to remain

KEYPLAN



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PARTIAL SITE PLAN

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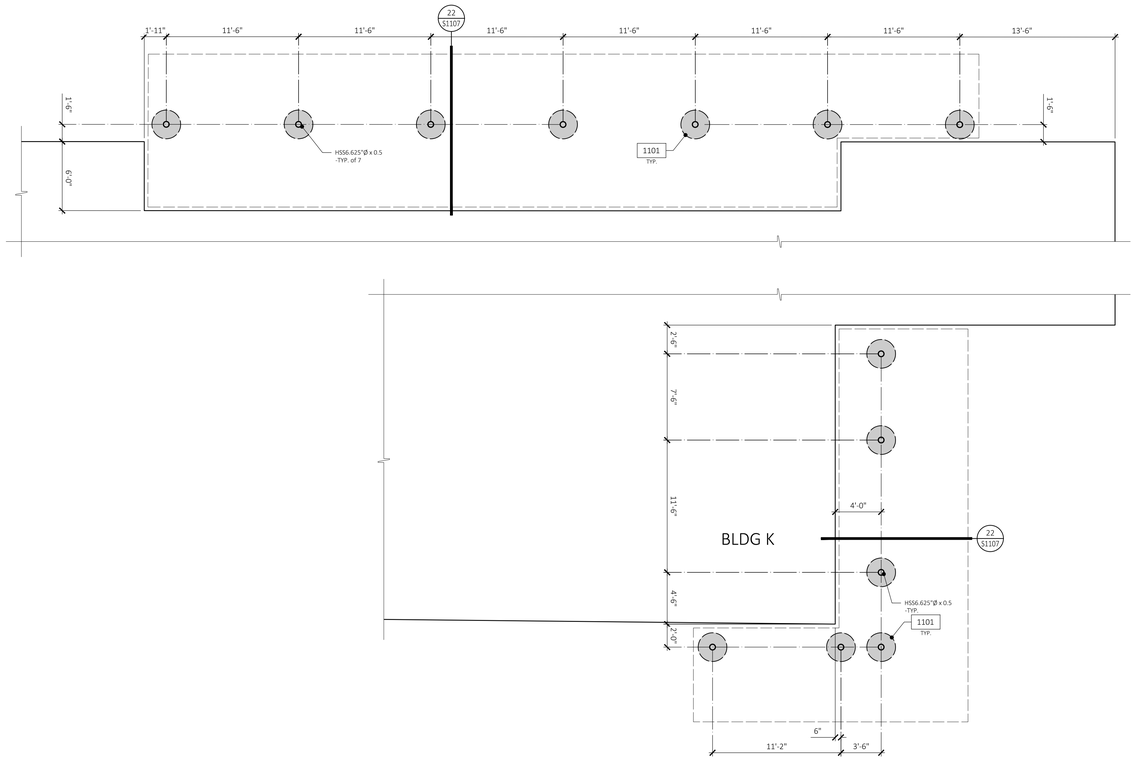
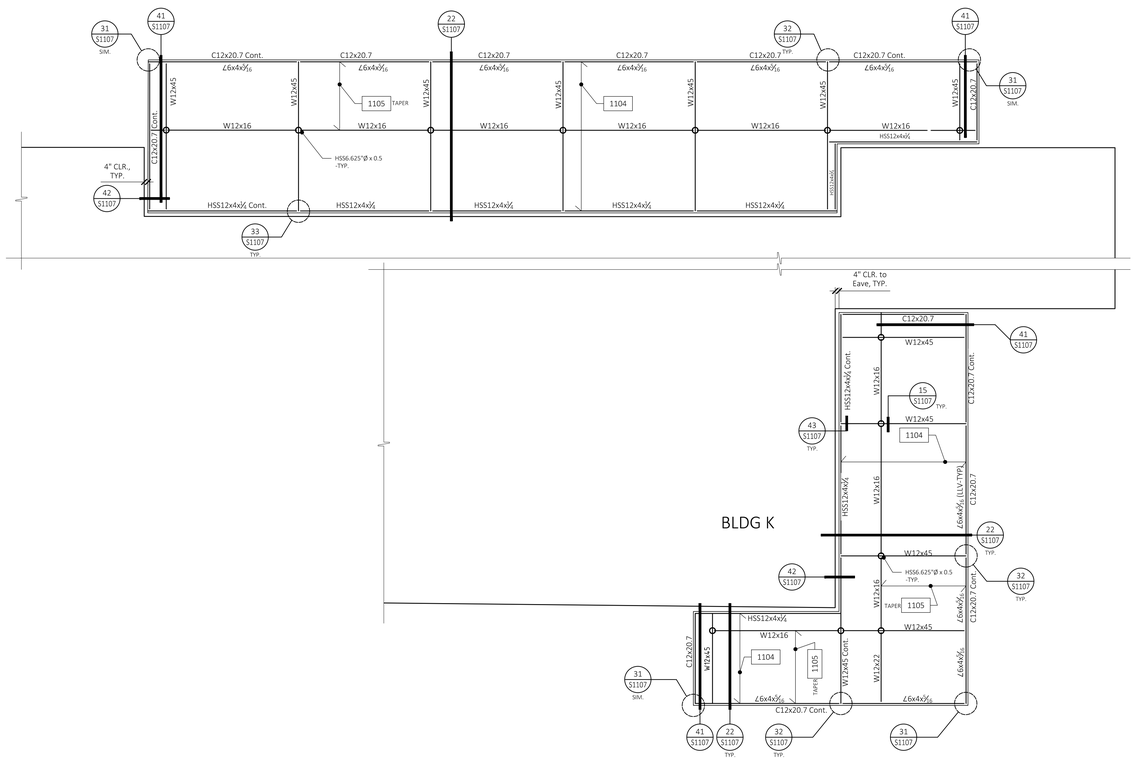
PHASE III

S1101



1 BUILDING 'K' SECONDARY CANOPY FOUNDATION PLAN

SCALE: 3/16" = 1'-0"



2 BUILDING 'K' SECONDARY CANOPY ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"

S1102-GENERAL NOTES

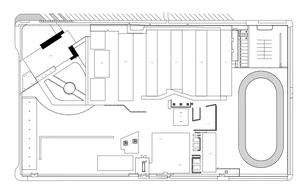
1. See Sheets S0000, S0001, and S0002 for general notes
2. See Sheets S1106, S1107, and S1108 for typical site details
3. Refer to Civil, Plumbing, and Electrical Drawings for underground utilities

S1102-KEYNOTES

#

1101. Footing. See detail 12/S1107
1102. Not Used
1103. Not Used
1104. Verco 3" x 18 ga. metal deck - H5N3 or equal
1105. Taper cantilever portion of W12's. See 24/S1107

KEYPLAN



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BUILDING 'K' SECONDARY CANOPY PLANS

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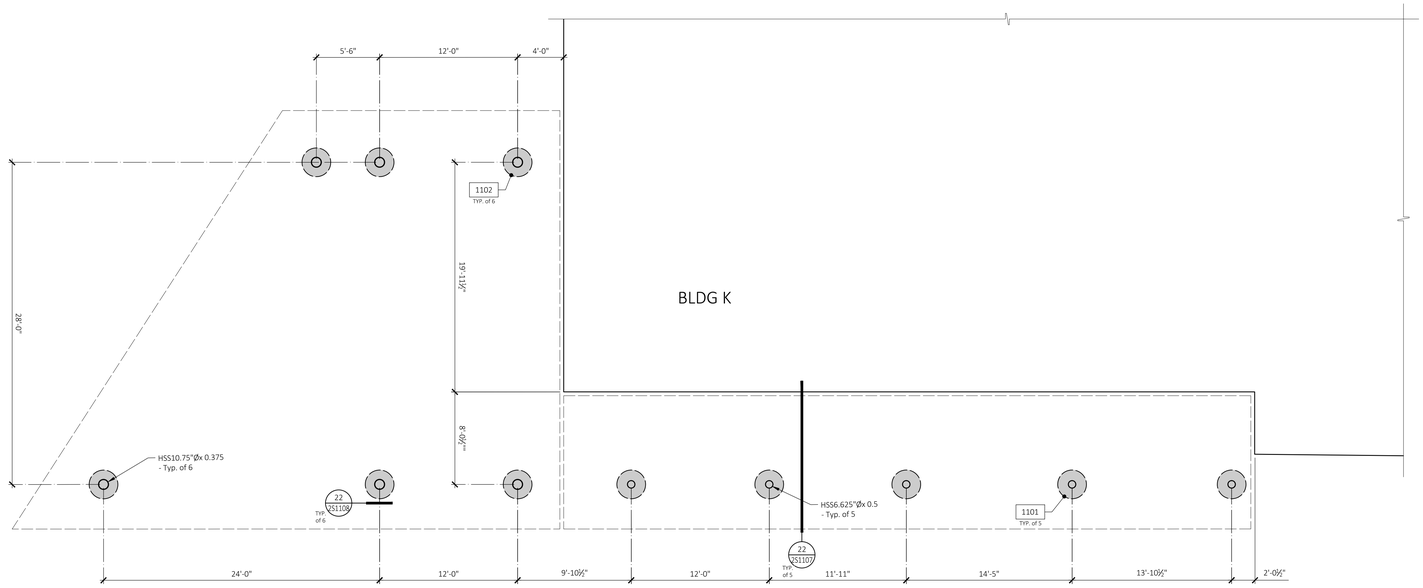
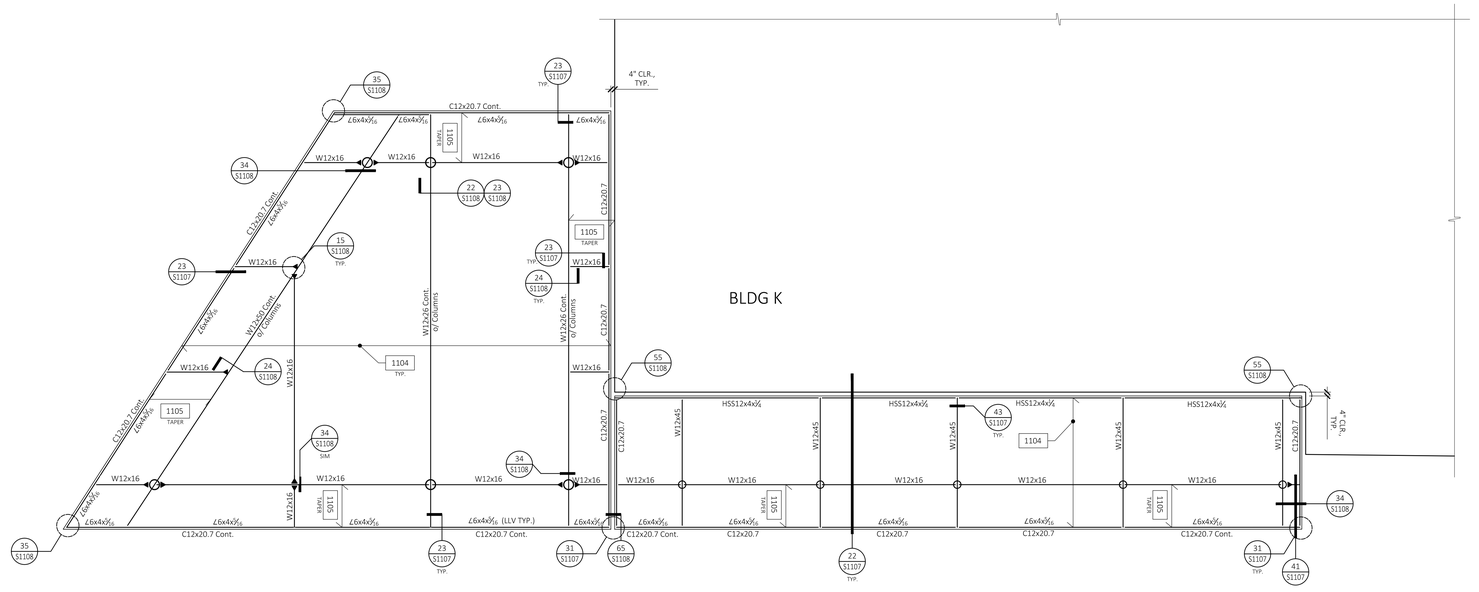
PHASE III

S1102



1 BUILDING 'K' MAIN ENTRANCE CANOPY FOUNDATION PLAN
SCALE: 3/16" = 1'-0"



2 BUILDING 'K' MAIN ENTRANCE CANOPY ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"

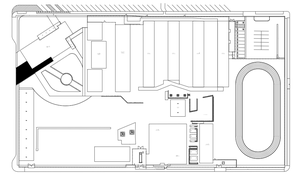
S1103-GENERAL NOTES

1. See Sheets S0000, S0001, and S0002 for general notes
2. See Sheets S1106, S1107, and S1108 for typical site details
3. Refer to Civil, Plumbing, and Electrical Drawings for underground utilities

S1103-KEYNOTES

1101. Footing. See detail 12/S1107
1102. Footing. See detail 12/S1108
1103. Not Used
1104. Verco 3" x 18 ga. metal deck - H5N3 or equal
1105. Taper cantilever portion of W12's. See detail 24/S1107

KEYPLAN



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BUILDING 'K' MAIN ENTRANCE CANOPY PLANS

SHEET NUMBER

PHASE III

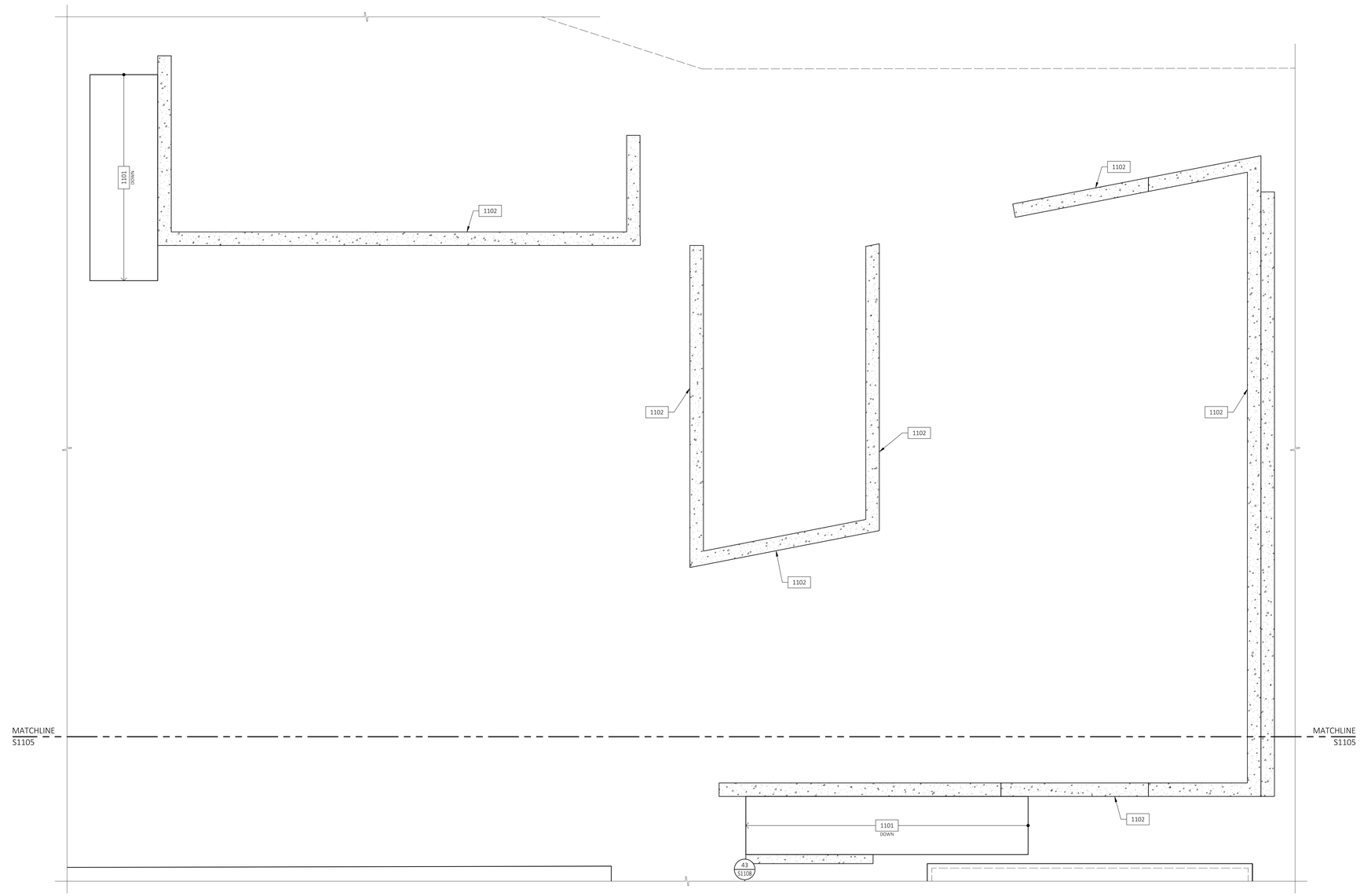
S1103

S1104-GENERAL NOTES

1. See Sheets S0000, S0001, and S0002 for general notes
2. See Sheets S1106, S1107, and S1108 for typical site details
3. Refer to Civil, Plumbing, and Electrical Drawings for underground utilities

S1104-KEYNOTES

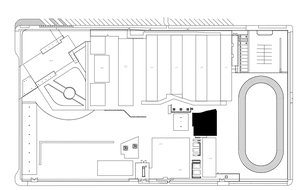
1101. Concrete ramp- See 8/A8002
1102. Concrete wall- See 22-30/A8002
1103. Not Used
1104. Not Used
1105. Not Used



1 PARTIAL AMPHITHEATER FOUNDATION PLAN - NORTH
SCALE: 3/16" = 1'-0"

N

KEYPLAN



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OPSC or OSHPD PROJ. NO:		
PROJECT NO:	118934	(S18302)
DRAWN BY:	JSB	
CHK'D BY:	CJC	
ISSUE DATE:		

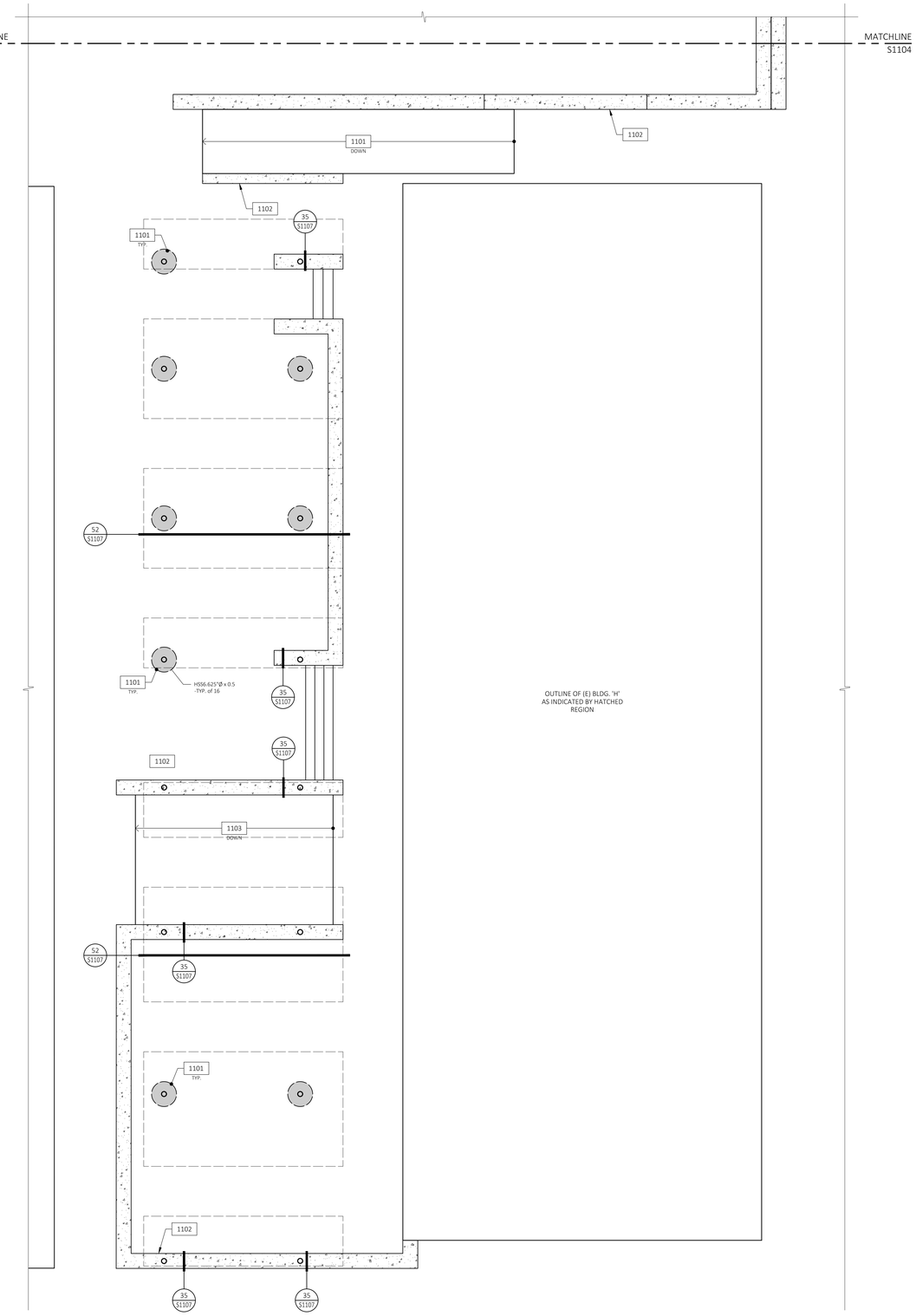
SHEET TITLE

PARTIAL AMPHITHEATER FOUNDATION PLAN - NORTH

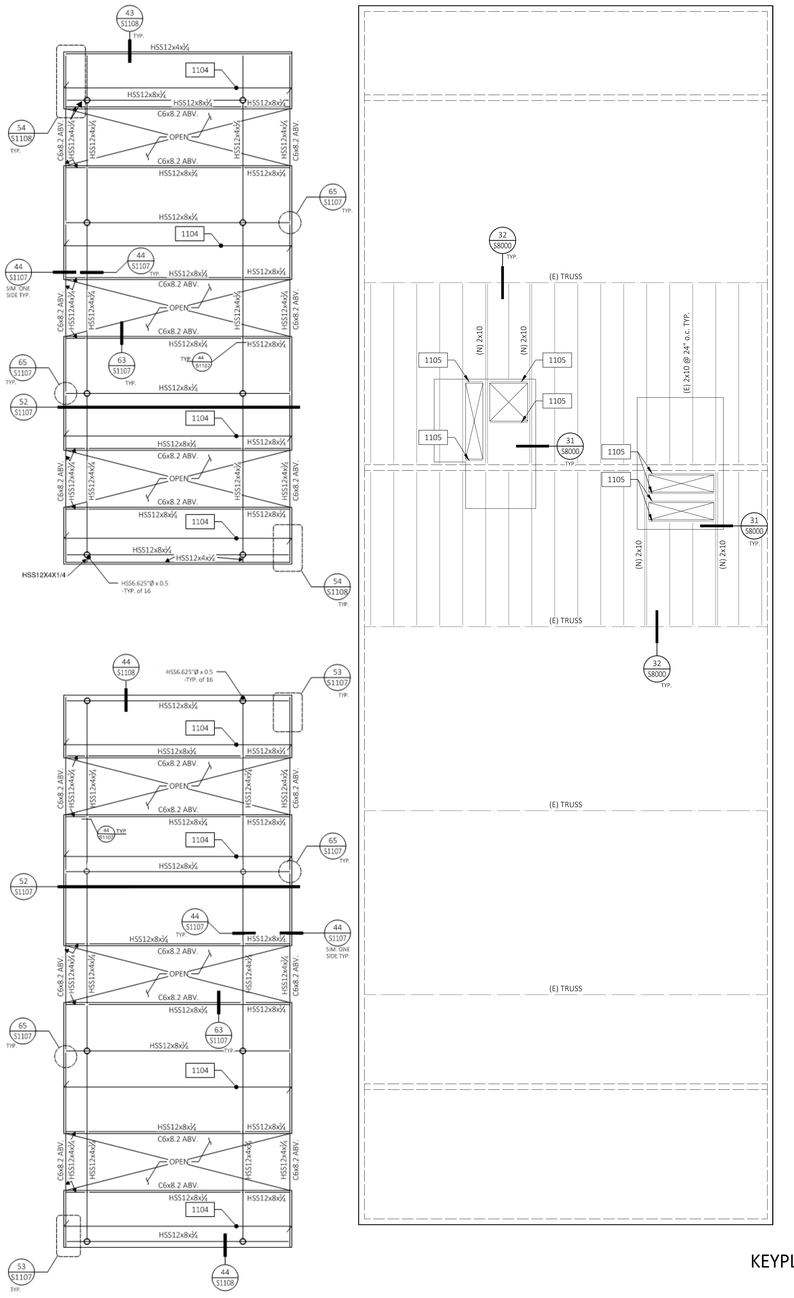
SHEET NUMBER

PHASE III

S1104

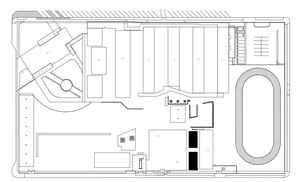


1 BUILDING 'H' CANOPY FOUNDATION PLAN
SCALE: 3/16" = 1'-0"



2 BUILDING 'H' CANOPY FRAMING PLAN
SCALE: 3/16" = 1'-0"

KEYPLAN



S1105-KEYNOTES

1101. Footing. See detail 12/S1107
1102. Concrete wall. See detail 22-30/A8002
1103. Concrete ramp. See detail 8/A8002
1104. Verco 3" x 18 ga. metal deck - HSN3 or equal
1105. 4x6

S1105-GENERAL NOTES

1. See Sheets S0000, S0001, and S0002 for general notes
2. See Sheets S1106, S1107, and S1108 for typical site details
3. Refer to Civil, Plumbing, and Electrical Drawings for underground utilities

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BUILDING 'H' CANOPY FDN. PLAN & FRMG. PLAN

SHEET NUMBER

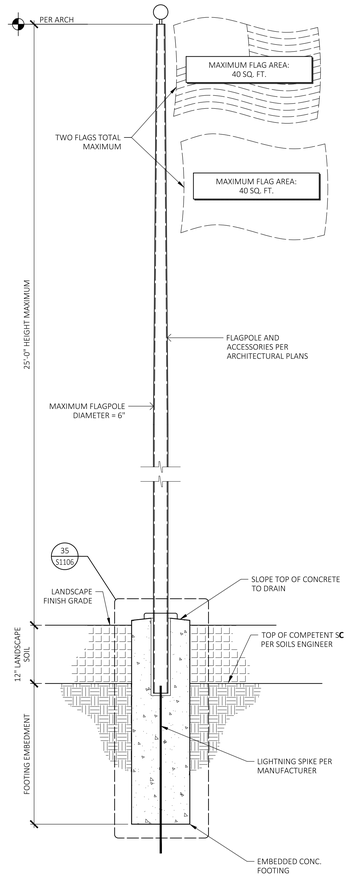
PHASE III

S1105

61 N.T.S.

51 N.T.S.

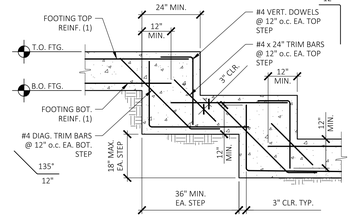
41 N.T.S.



FLAGPOLE ELEVATION

33 N.T.S.

21 N.T.S.



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

STEPPED FOOTING

11 N.T.S.

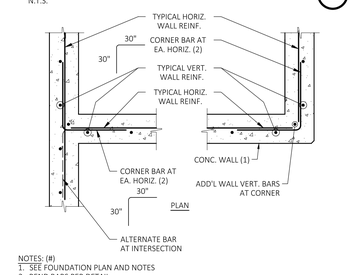
62 N.T.S.

42 N.T.S.

FLAGPOLE ELEVATION

33 N.T.S.

22 N.T.S.



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. BEND BARS PER DETAIL ____
3. MATCH DOWEL SIZE TO HORIZONTAL REINFORCEMENT

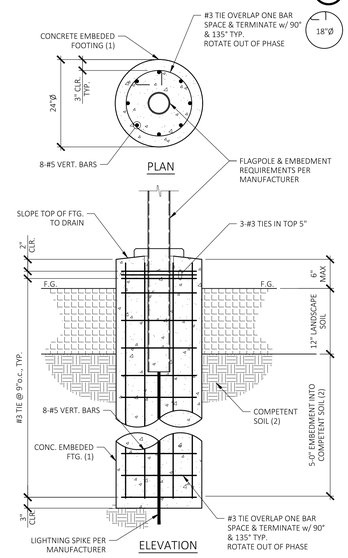
CONC. WALL CORNER

13 N.T.S.

63 N.T.S.

53 N.T.S.

43 N.T.S.

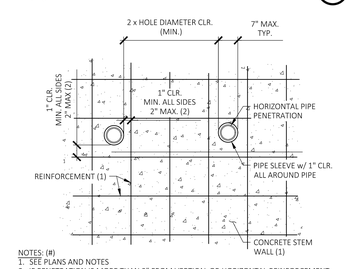


NOTES:
1. SEE SITE PLAN AND NOTES
2. AS DESCRIBED IN PROJECT SOILS REPORT, AND OBSERVED ON SITE BY PROJECT GEOTECHNICAL ENGINEER

FLAGPOLE FTG. DETAIL

35 N.T.S.

23 N.T.S.



NOTES: (#)
1. SEE PLANS AND NOTES
2. IF PENETRATION IS MORE THAN 2" FROM VERTICAL OR HORIZONTAL REINFORCEMENT, PROVIDE #4 x 48" LONG BAR, CENTERED ON PENETRATION

HORIZ. WALL PENETRATION

14 N.T.S.

65 N.T.S.

55 N.T.S.

45 N.T.S.

35 N.T.S.

25 N.T.S.

15 N.T.S.

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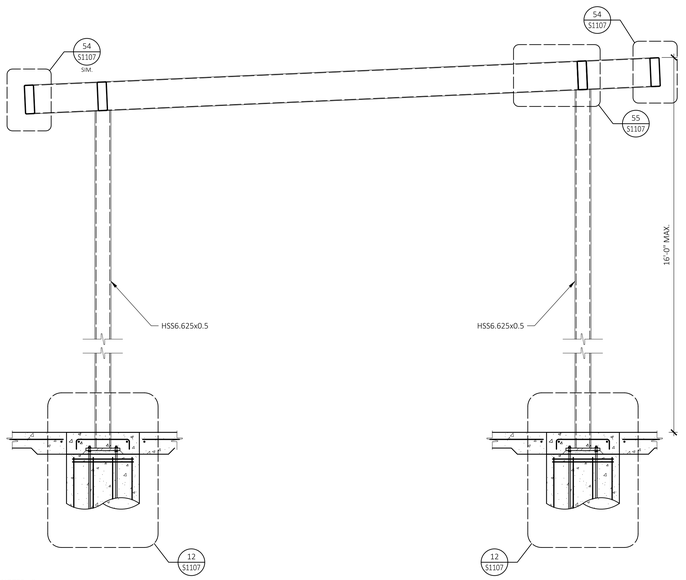
SHEET TITLE

SITE DETAILS

SHEET NUMBER

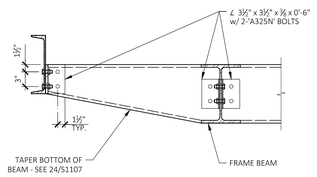
PHASE III

S1106

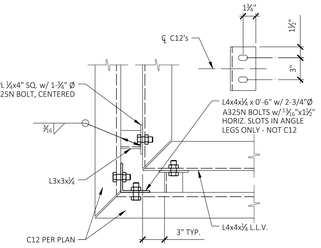


NOTES: (#)
1. SEE FRAMING PLAN AND NOTES ON SHEET S1105

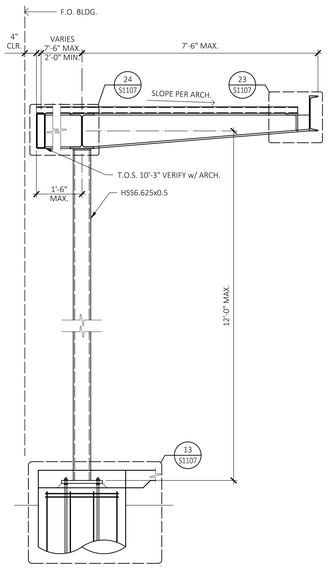
BUILDING H CANOPY ELEVATION 52
N.T.S.



FASCIA SUPPORT 41
N.T.S.

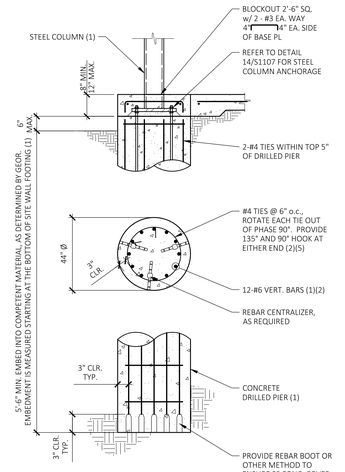


PLAN VIEW - CANOPY CORNERS 31
N.T.S.



NOTES: (#)
1. SEE FRAMING/FOUNDATION PLAN AND NOTES ON SHEETS 3S1102 & 3S1103
2. SEE 63/3S1104 WHERE OCCURS NEAR BUILDING

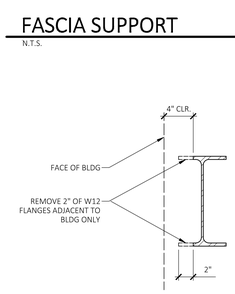
CANOPY ELEVATION 22
N.T.S.



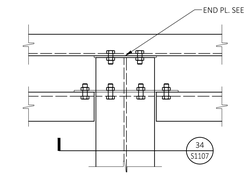
NOTES: (#)
1. SEE CANOPY ELEVATION, 22/S1107
2. SEE DETAILS 21/S8000 & 22/S8000 FOR REINFORCEMENT BEND & TIE REQUIREMENTS
3. SPLICE REINFORCEMENT PER 23/S8000 AS REQUIRED. ALL SPLICES ARE TO BE CLASS B.
4. LOCATION OF CONDUIT APPROACH SHOWN GRAPHICALLY ONLY FOR REFERENCE, VERIFY ACTUAL CONDITIONS IN FIELD.
5. TIE SHALL OVERLAP ITSELF A MINIMUM OF 6" AND HOOK AT VERTICAL BARS. MAXIMUM OF THREE VERTICAL BAR SPACINGS BETWEEN HOOKS

CONCRETE DRILLED PIER 12
N.T.S.

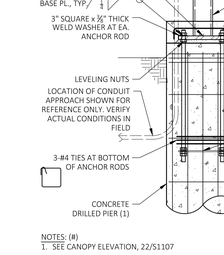
SKYLIGHT CURB 63
N.T.S.



BEAM FLANGES AT BLDG 42
N.T.S.

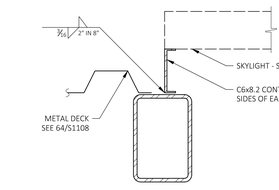


PLAN VIEW - CANOPY 32
N.T.S.



NOTES: (#)
1. SEE FRAMING/FOUNDATION PLAN AND NOTES
2. SEE SHEARWALL SCHEDULE AND NOTES

WALKWAY CANOPY EDGE 23
N.T.S.



PLAN VIEW - BM. TO GIRDER 65
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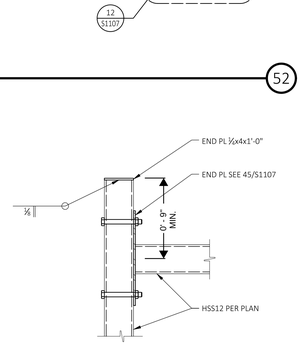
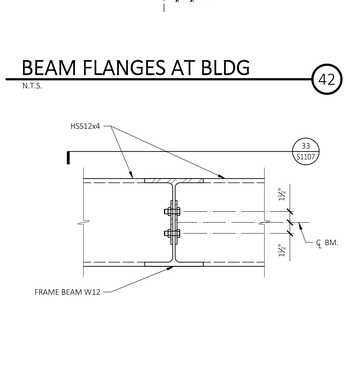
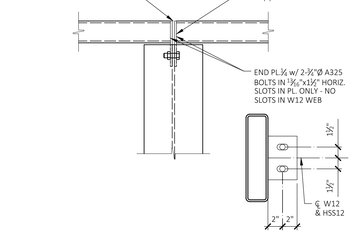


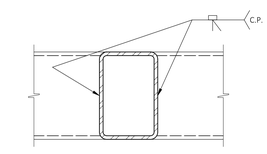
BEAMS AT CORNERS 53
N.T.S.



FRAME BM. TO EDGE BEAMS 43
N.T.S.



BEAM CONNECTIONS 15
N.T.S.



MOMENT CONNECTION 64
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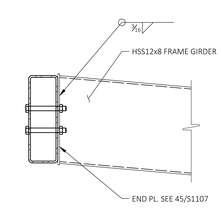
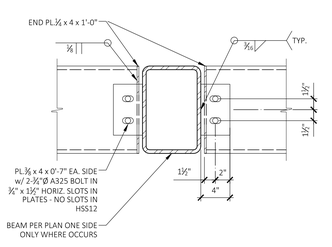


BEAM TO FRAME GIRDER 54
N.T.S.



BEAMS TO GIRDER 44
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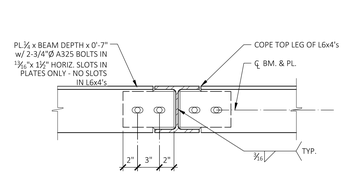
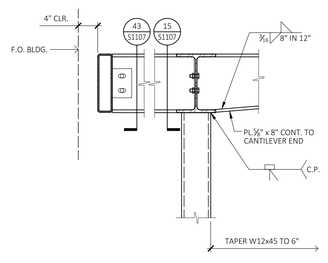
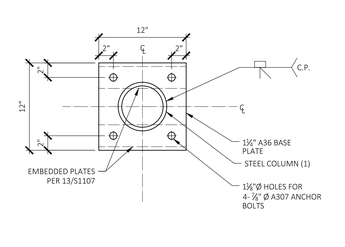


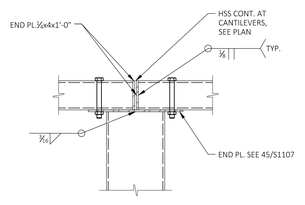
FRAME BM. TO EDGE BM. 34
N.T.S.



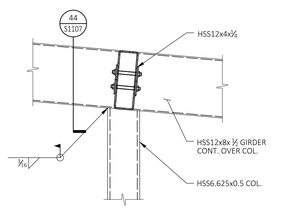
CANOPY BEAM TO COL. 24
N.T.S.



BASE PLATE 14
N.T.S.



PLAN VIEW - BM. TO GIRDER 65
N.T.S.



BEAM TO FRAME GIRDER 55
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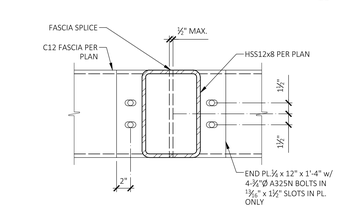
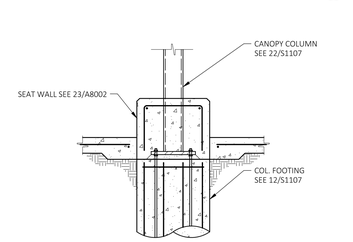
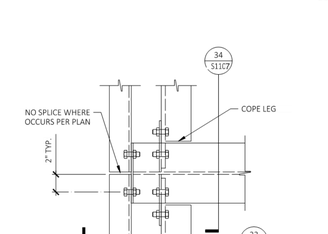


EDGE BEAMS TO GIRDER 45
N.T.S.



NOTES: (#)
1. SEE FRAMING/FOUNDATION PLAN AND NOTES
2. SEE SHEARWALL SCHEDULE AND NOTES

COLUMN IN SITE WALL 35
N.T.S.



CANOPY EDGE PLAN 25
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CHK'D BY:	CJC	
ISSUE DATE:		

SHEET TITLE

SITE DETAILS

SHEET NUMBER

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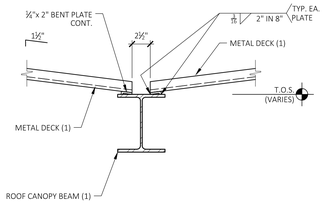
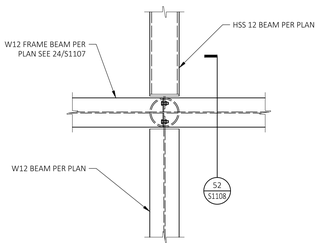
S1107



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES

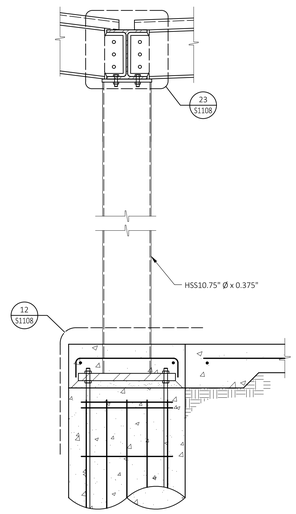
CHANGE IN DIRECTION 61

N.T.S.



PLAN VIEW 51

N.T.S.



41

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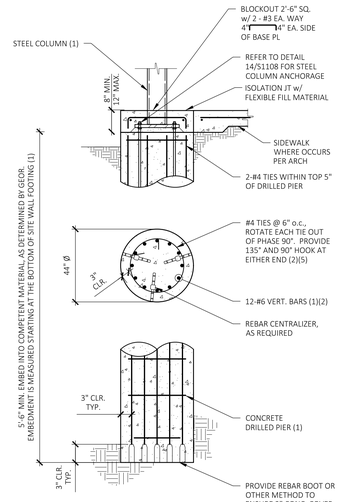
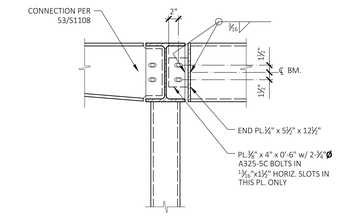


NOTES: (#)
1. SEE CANOPY ELEVATION, 22/S1108
2. SEE DETAILS 21/S8000 & 22/S8000 FOR REINFORCEMENT BEND & TIE REQUIREMENTS
3. SPLICE REINFORCEMENT PER 23/S8000 AS REQUIRED. ALL SPLICES ARE TO BE CLASS B.
4. LOCATION OF CONDUIT APPROACH SHOWN GRAPHICALLY ONLY FOR REFERENCE, VERIFY ACTUAL CONDITIONS IN FIELD
5. TIE SHALL OVERLAP ITSELF A MINIMUM OF 6" AND HOOK AT VERTICAL BARS. MAXIMUM OF THREE VERTICAL BAR SPACINGS BETWEEN HOOKS

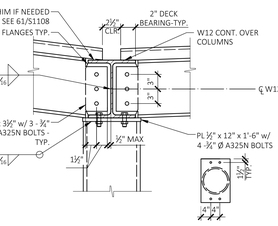
CONCRETE DRILLED PIER 12

N.T.S.



BEAM CONNECTIONS 62

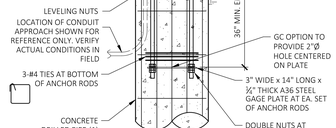
N.T.S.



MAIN ENTRY CANOPY 52

N.T.S.

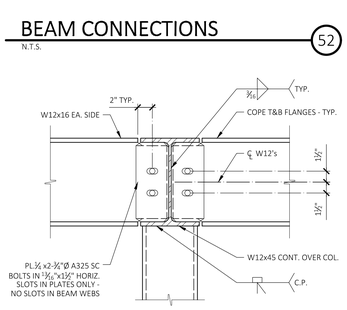
NOTES: (#)
1. SEE CANOPY FRAMING PLAN AND NOTES ON SHEET 251103



NOTES: (#)
1. SEE CANOPY ELEVATION, 22/S1108

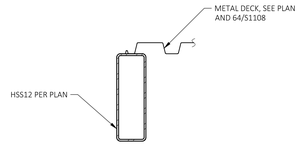
STEEL COLUMN ANCHORAGE 13

N.T.S.



BEAMS TO FRAME BEAM 53

N.T.S.



CANOPY EDGE 43

N.T.S.

33

N.T.S.

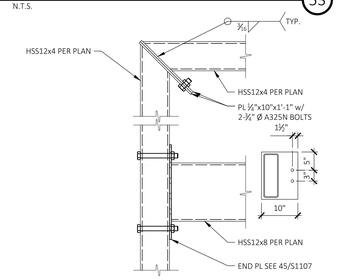
GIRDER TO COLUMN 23

N.T.S.

NOTES: (#)
1. SEE FRAMING PLAN AND NOTES
2. ⅜" ARCE PUDDLE WELD
3. PROVIDE TOP SEAM WELD @ 18" o.c.

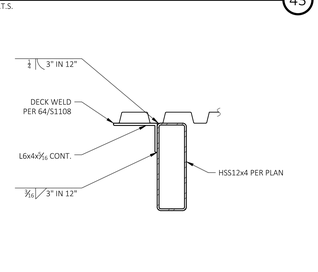
EXT. CANOPY DECK PROFILE 63

N.T.S.



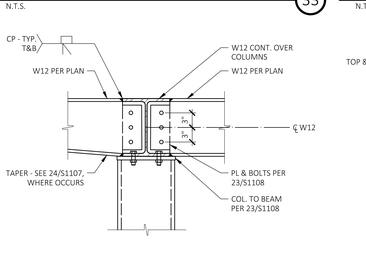
PLAN VIEW - CORNER 54

N.T.S.



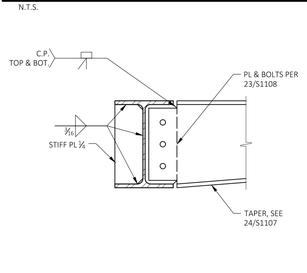
CANOPY EDGE - BLDG H 44

N.T.S.



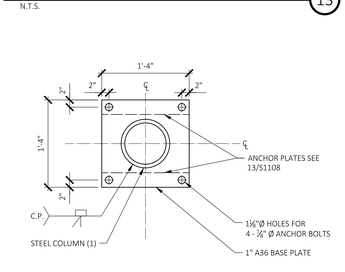
GIRDER TO COLUMN 34

N.T.S.



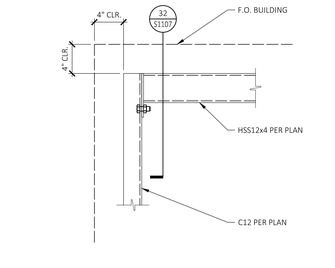
BEAM TO GIRDER 24

N.T.S.



BASE PLATE 14

N.T.S.

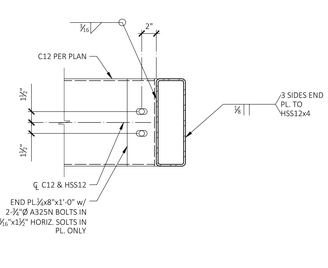


FASCIA CLOSURE 64

N.T.S.

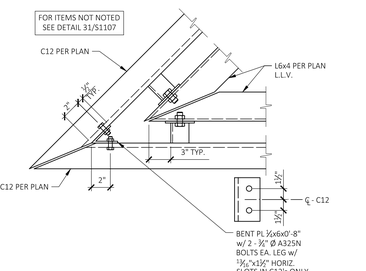
PLAN VIEW CANOPY CORNER 55

N.T.S.



BEAM TO FASCIA 45

N.T.S.

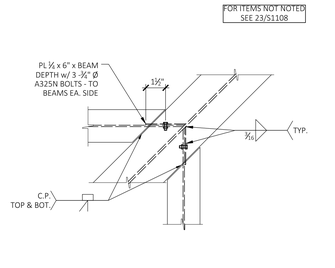


FASCIA CORNER - PLAN VIEW 35

N.T.S.

25

N.T.S.



PLAN VIEW - SKEWED BEAMS 15

N.T.S.

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BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:		
PROJECT NO:	118934	(S18302)
DRAWN BY:	JSB	
CHK'D BY:	CJC	
ISSUE DATE:		

SHEET TITLE

SITE DETAILS

SHEET NUMBER

PHASE III

S1108

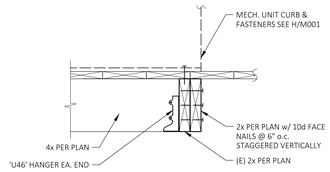
61 N.T.S.

51 N.T.S.

41 N.T.S.

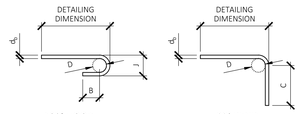
MECHANICAL SUPPORT

N.T.S. 31



REBAR HOOKS & BENDS

N.T.S. 21

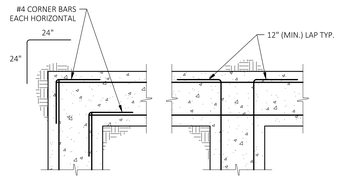


180° HOOK 90° BEND

Bar Size	Dimension of Standard Hooks and Bends			
	D	J	B ($4d_b$) [2½" min.]	C ($12d_b$)
#3	2½"Ø	2½"	2½"	4½"
#4	3"Ø	3"	2½"	6"
#5	3¾"Ø	3¾"	2½"	7½"
#6	4½"Ø	6"	3"	9"
#7	5¼"Ø	7"	3½"	10½"
#8	6"Ø	8"	4"	12"
#9	9"Ø	11¼"	4½"	13½"
#10	10"Ø	12½"	5"	15"

TYP. FOOTING CORNER

N.T.S. 11



PLAN VIEW

NOTES: (#)
1. TYPICAL HORIZONTAL FOOTING STEEL SHOWN
2. VERTICAL STEEL NOT SHOWN FOR CLARITY
3. SEE SPECIFIC DETAILS FOR STEEL SIZE, NUMBER, AND SPACING

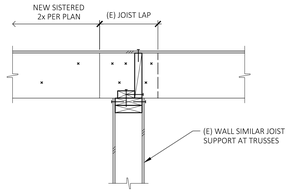
62 N.T.S.

52 N.T.S.

42 N.T.S.

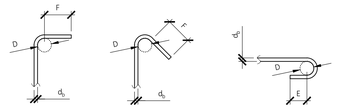
(N) TO (E) JOISTS

N.T.S. 32



TIE AND STIRRUP BENDS

N.T.S. 22



90° BEND 135° BEND 180° BEND

Bar Size	Dimension of Standard Bends		
	D	E ($4d_b$) [2½" min.]	F ($6d_b$) [3" min.]
#3	1½"Ø	2½"	3"
#4	2"Ø	2½"	3"
#5	2½"Ø	2½"	3¾"

12 N.T.S.

63 N.T.S.

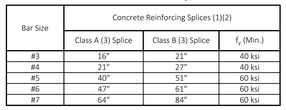
53 N.T.S.

43 N.T.S.

33 N.T.S.

TYPICAL LAP SPLICES

N.T.S. 23



Bar Size	Concrete Reinforcing Splices (1)(2)		
	Class A (3) Splice	Class B (3) Splice	f_c (Min.)
#3	16"	21"	40 ksi
#4	21"	27"	40 ksi
#5	40"	51"	60 ksi
#6	47"	61"	60 ksi
#7	64"	84"	60 ksi

NOTES: (#)
1. LAP LENGTHS LISTED APPLY TO ALL LOCATIONS: VERTICAL, HORIZONTAL, TOP, BOTTOM, AND SITE WALLS
2. WHERE BARS OF A DIFFERENT SIZE ARE LAPPED, THE LAP LENGTH SHALL BE THE LENGTH REQUIRED BY THE LARGER BAR
3. ALL SPLICES SHALL BE CONSIDERED CLASS B UNLESS SPECIFICALLY NOTED OTHERWISE

13 N.T.S.

64 N.T.S.

54 N.T.S.

44 N.T.S.

34 N.T.S.

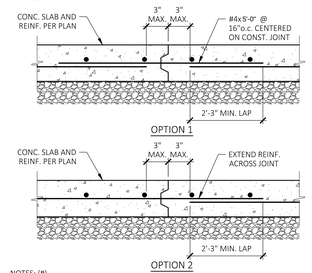
TYPICAL CONCRETE COVER

N.T.S. 24

REINFORCMENT CLEAR COVER		
USE	BAR SIZE	CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	#3 THROUGH #11	3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER	#6 THROUGH #11	2"
	#5 AND SMALLER	1½"
WALLS	#11 AND SMALLER	¾"
BEAMS	#11 AND SMALLER	1½"
SLABS	#6 THROUGH #11	¾"
	#5 AND SMALLER	¾"

TYPICAL CONST. JOINT

N.T.S. 14



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

65 N.T.S.

55 N.T.S.

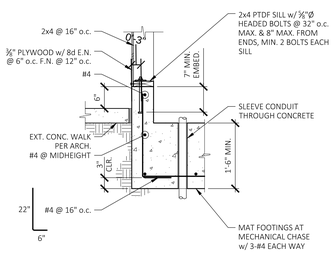
45 N.T.S.

35 N.T.S.

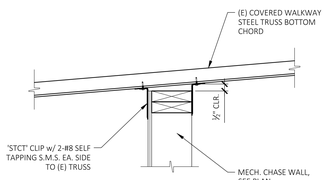
25 N.T.S.

15 N.T.S.

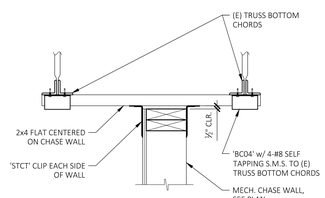
MECH. CHASE FOUND.



CHASE AT (E) SOFFIT



CHASE AT (E) SOFFIT



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BAKERSFIELD CITY SCHOOL DISTRICT "Where The Child Comes First"

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:		
PROJECT NO:	118934	(S18302)
DRAWN BY:	JSB	
CHK'D BY:	CJC	
ISSUE DATE:		

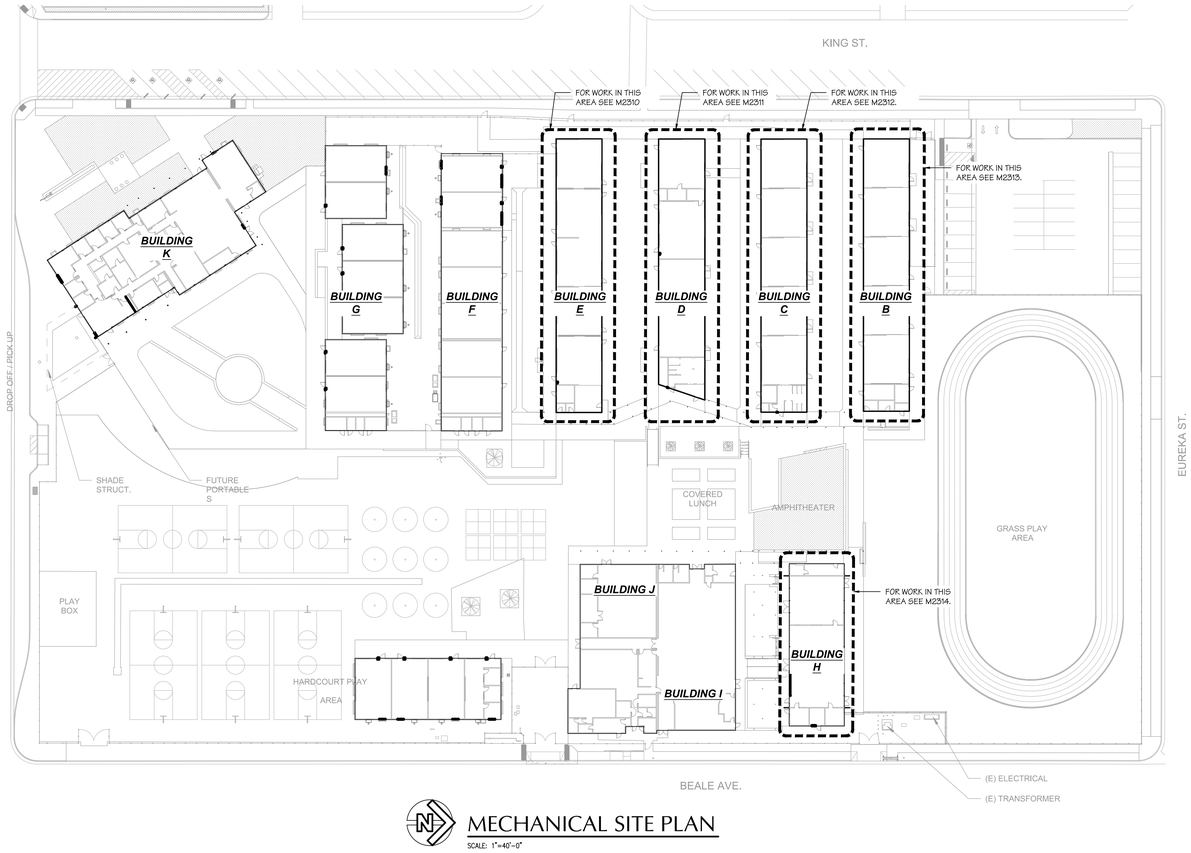
SHEET TITLE

STRUCTURAL DETAILS

SHEET NUMBER

PHASE III

S8000



MECHANICAL SITE PLAN

SCALE: 1"=40'-0"

Equipment Anchorage Notes:

All Mechanical, Plumbing, and Electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2016 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10 Chapter 13, 26 and 30.

1. All permanent equipment and components.
2. Temporary or movable equipment that is permanently attached (E.G. hard wired) to the building utility services such as electricity, gas or water.
3. Moveable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds or has a center mass located 4 feet or more above the adjacent floor or roof level that directly support the component are required to be anchored with temporary attachments.

The following Mechanical and Electrical components shall be positively attached to the structure, but the attachment need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping and conduit.

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note:

Piping, ductwork, and Electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8, and 2016 CBC, Sections 1616A.1.23, 1616A.1.24, 1616A.1.25 and 1616A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a pre-approved installation guide (e.g., SMACNA or OSHPD OPM), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP),
Electrical Distribution Systems (E):

MP ☐ MD ☐
PP ☐ E ☐ **Option 1:** Detailed on the approved drawings with project specific notes and details

MP ☐ MD ☐
PP ☐ E ☐ **Option 2:** Shall comply with the applicable OSHPD Pre-Approval (OPM#) #_____.

MP ☐ MD ☑
PP ☐ **Option 3:** Shall comply with the SMACNA Seismic Restraint Manual, OSHPD Edition (2009), Including any addenda. Fasteners and other attachments not specifically identied in the SMACNA Seismic Restraint Manual, OSHPD Edition, are detailed on the approved drawings with project specific notes and details. the details shall account for the applicable Seismic Hazard Level AA and Connection Level _2_ for the project and conditions

Codes:

California Code of Regulations (C.C.R)
Part 1 - 2016 California Standards Administrative Code, Title 24, C.C.R.
Part 2 - 2016 California Building Code (C.B.C.), Title 24, C.C.R. Volumes 1-3.
Part 3 - 2016 California Electrical Code, Title 24, C.C.R.
Part 4 - 2016 California Mechanical Code (C.M.C.), Title 24, C.C.R.
Part 5 - 2016 California Plumbing Code (C.P.C.), Title 24, C.C.R.
Part 6 - 2016 California Energy Code, Title 24, C.C.R.
Part 9 - 2016 California Fire Code, Title 24, C.C.R.

Standards and Guides:

ADASAD - American with Disabilities Act, Standards for Accessible Design.
Fixtures - Plumbing fixtures to comply with table 5.303.6 of the California Green Building Standards - 2016 Edition.

Air Conditioning Legend

SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	A.C.	Air Conditioning		H.W.R.	Heating Water Return
	A.D.	Access Door		H.W.S.	Heating Water Supply
	A.F.F.	Above Finished Floor		INT.	Internal
	A.H.	Air Handler		LOC.	Location
	B.A.S.	Building Automation System		M.O.	Motor Operated
	B.V.	Butterfly Valve		(N).	New
	C.D.	Condensate Drain		N.C.	Normally Closed
	C.E.	Ceiling Exhaust Register		N.I.C.	Not in Contract
	C.W.R.	Condensor Water Return		N.O.	Normally Open
	C.W.S.	Condensor Water Supply		O.S.A.	Outside Air
	C.H.W.R.	Chilled/Hot Water Return		O.B.D.	Opposed Blade Damper
	C.H.W.S.	Chilled/Hot Water Supply		P.O.C.	Point of Connection
	COMB.	Combustion		P.P.	Pirtes Plug
	CONN.	Connection		PROV.	Provide
	CONT.	Continuation		P.R.V.	Pressure Reducing Valve
	C.R.	Ceiling Return Register		SIM.	Similar
	CLG.	Ceiling		S.F.D.	Smoke / Fire Damper w/ access panel
	C.S.	Ceiling Supply Register		S.M. or SHT.	Sheet Metal
	C.V.	Check Valve		S.O.V.	Shut Off Valve
	D.C.W.	Domestic Cold Water		S.P.S.T.	Single Pole Single Throw
	DIA.	Diameter		STAT.	Thermostat or Room Sensor
	D.L.	Door Louver		SURF.	Surface
	DN.	Down		(TYP)	Typical
	D.P.D.T.	Double Pole Double Throw		U.G.	Underground
	D.T.R.	Duct Thru Roof		U.N.O.	Unless Noted Otherwise
	(E)	Existing		V.D.	Volume Damper
	E.F.	Exhaust Fan		V.D.	Vol. Damper w/ Remote Operator
	E.M.S.	Energy Management System		W/	With
	EX.	Exhaust		W.R.	Wall Return Register
	F.D.	Fire Damper w/ acc. panel		W.S.	Wall Supply Register
	Flex. Conn	Flexible Connection			Duct w/ Acoustic Lining
	FLR.	Floor		T.V.	Turning Vanes
	F.T.R.	Flue Thru Roof			Extractor
	Furn.	Furnace			
	GA.	Gauge			
	GAL.	Gallon			CO2 SENSOR
	GALV.	Galvanized			
	G.P.M.	Gallons per Minute			Union
	GRD.	Grade			Reducer or Increaser
	G.V.	Gate Valve			

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OPSC or OSHPD PROJ. NO:

PROJECT NO:	118934
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SHEET TITLE

MECHANICAL SITE PLAN

SHEET NUMBER

PHASE III

M1100

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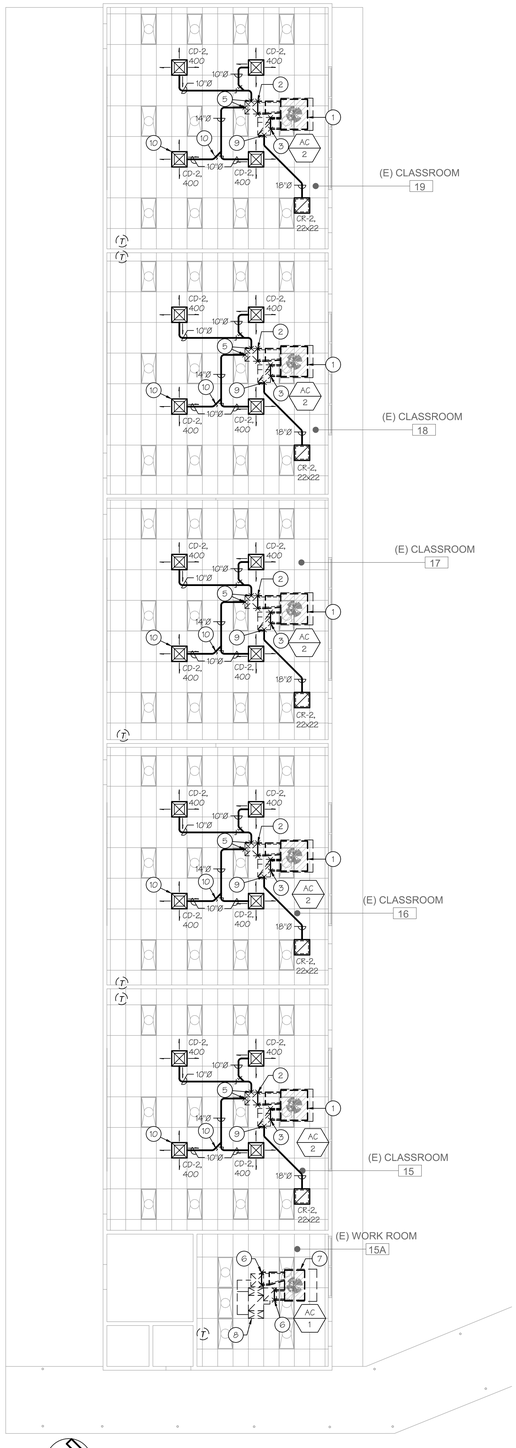
BLDG E PACKAGE UNITS			
UNIT TAG	ORIGINAL SCHEDULED WEIGHT	NEW UNIT WEIGHT	CHANGE IN WEIGHT (%)
AC-1	394	449	14%
AC-2	486	558	15%

ORIGINAL WEIGHT FROM DSA APP # A32138

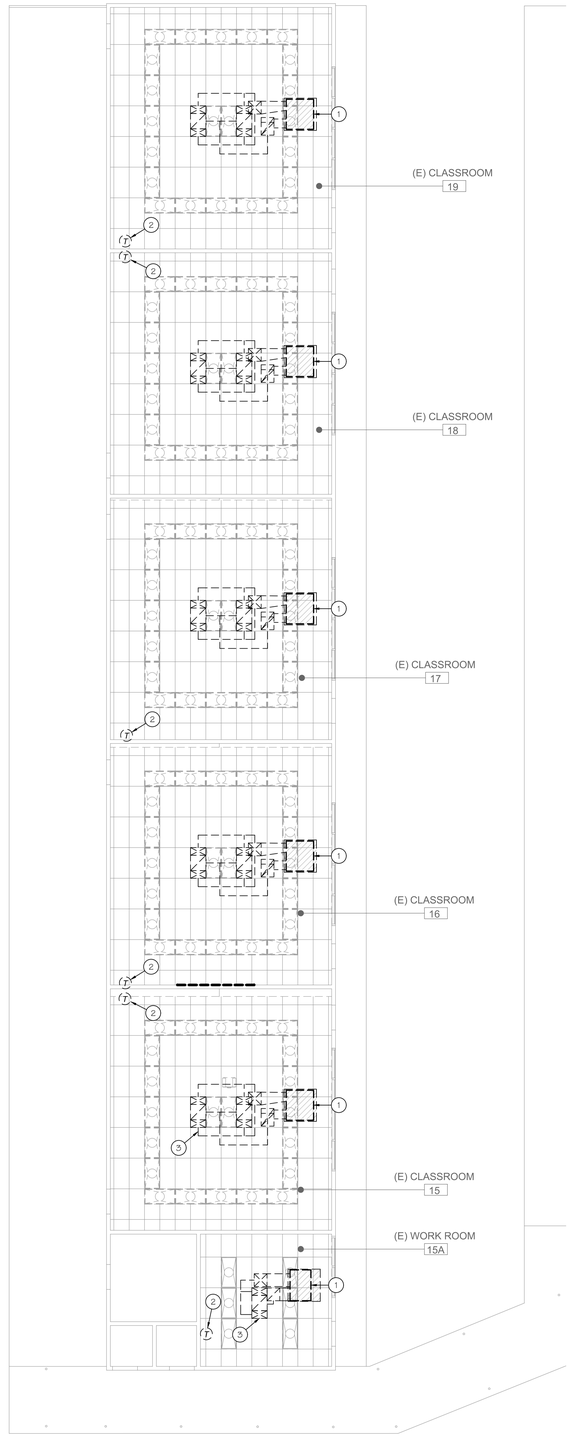


BLDG 'E' MECHANICAL PLAN

SCALE: 1/8"=1'-0"

MECHANICAL KEYNOTES:

1. PACKAGE UNIT ON ROOF. SEE DETAIL A/M4001 SET MIN. OSA TO 345 CFM.
2. P.O.C. 16"x16" TRANS. TO (E) 20"x20". EXPOSED DUCT ABOVE ROOF TO HAVE 2" LINER.
3. P.O.C. 16"x16" TO (E) R.A. EXPOSED DUCT ABOVE ROOF TO HAVE 2" LINER.
4. (E) PELICAN THERMOSTAT TO REMAIN
5. P.O.C. 14"Ø SA DUCT TO (E) SA DUCT DROP.
6. P.O.C. 12"x16" TRANSITION TO (E)20"x20". EXPOSED DUCT ON ROOF TO HAVE 2" LINER.
7. PACKAGE UNIT ON ROOF SEE DETAIL A/M4001. SET MIN OSA TO 105 CFM.
8. BALANCE TO 400 CFM (TYP. OF 2)
9. P.O.C. 18"Ø RA DUCT TO (E) RA DUCT DROP.
10. SEE TYP. DETAIL E/M4001



BLDG 'E' MECHANICAL DEMOLITION PLAN

SCALE: 1/8"=1'-0"

MECHANICAL DEMO KEYNOTES:

1. DEMO PACKAGE UNIT ON ROOF, DISCONNECT GAS, CONTROLS, CONDENSATE DRAIN, (E) EQUIPMENT PLATFORM TO REMAIN.
2. (E) PELICAN THERMOSTAT TO REMAIN (TYP)
3. DEMO (E) SA & RA DUCTS BACK TO DUCT DROPS & GRILLES (TYP)

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SHEET TITLE

MECHANICAL DEMOLITION & NEW WORK PLAN - BUILDING 'E'

SHEET NUMBER

PHASE III

M2310

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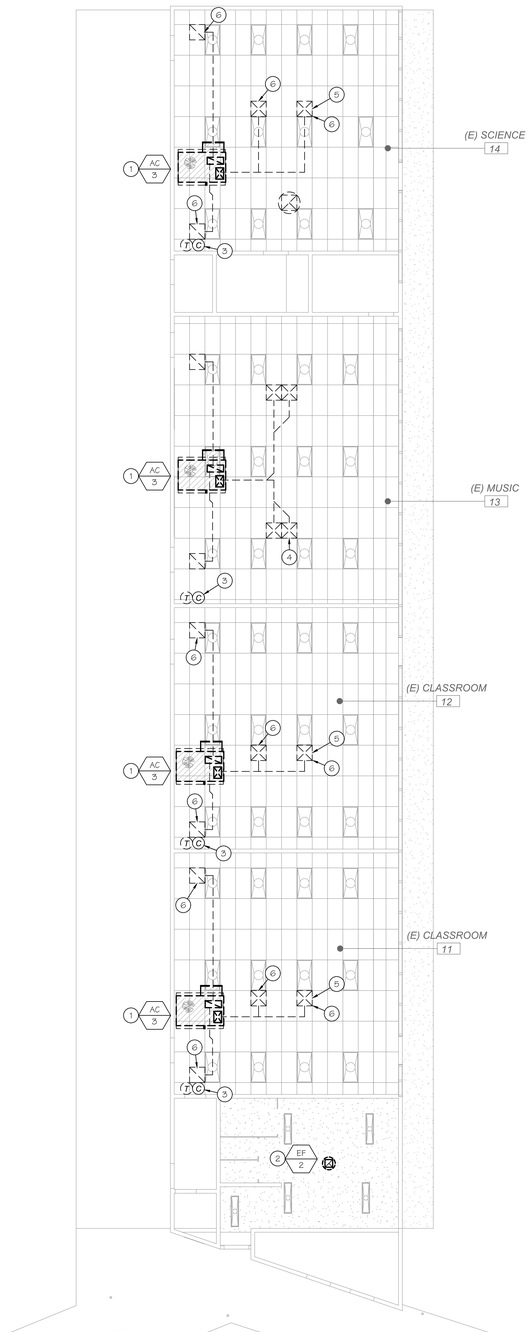
BLDG D PACKAGE UNITS			
UNIT TAG	ORIGINAL SCHEDULED WEIGHT	NEW UNIT WEIGHT	CHANGE IN WEIGHT (%)
AC-3	875	650	-26%

ORIGINAL WEIGHT FROM DSA APP # A8270

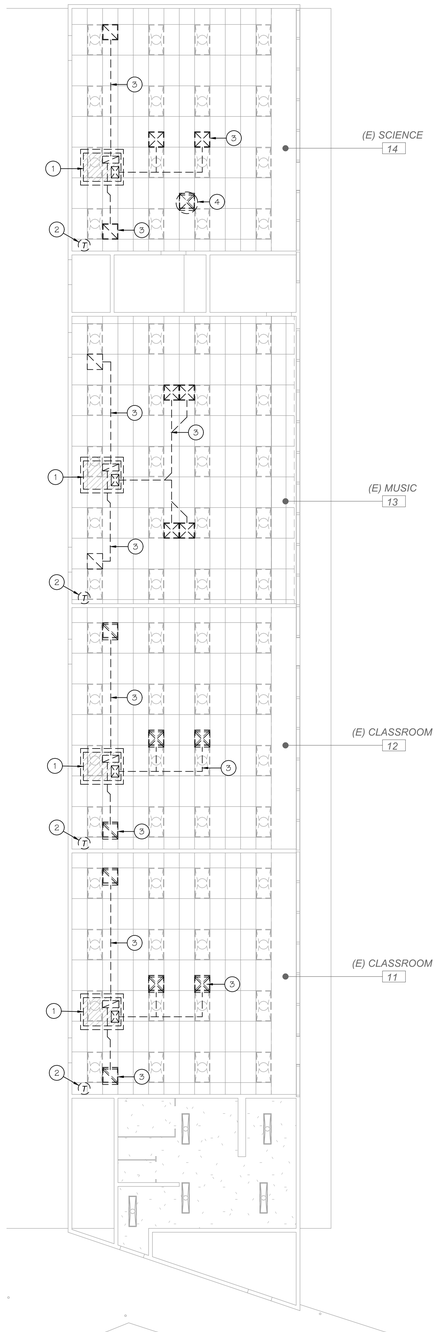


BLDG 'D' MECHANICAL PLAN

SCALE: 1/8"=1'-0"

MECHANICAL KEYNOTES:

1. (N) PACKAGE UNIT ON ROOF. SEE DETAIL A/M4001 SET MIN. OSA TO MODULATE BETWEEN 170 CFM & 345 CFM, SET CO2 TO 1000 PPM.
2. EXHAUST FAN ON ROOF SEE DETAIL C/M4001, W/16"x16" DUCT DROP DOWN TO 16"x16" CE-1, 1050 CFM
3. (N) CO2 SENSOR MOUNT ADJACENT TO (E) PELICAN THERMOSTAT. PER DETAIL B/M4001.
4. BALANCE TO 488 CFM (TYP. OF 4)
5. BALANCE TO 975 (TYP OF 2)
6. MODIFY SA & RA DUCTS TO SHIFT IN GRID AS REQ'D FOR (N) LIGHT LOCATIONS



BLDG 'D' MECHANICAL DEMOLITION PLAN

SCALE: 1/8"=1'-0"

MECHANICAL DEMO KEYNOTES:

1. DEMO (E) PACKAGE UNIT, CONDENSATE DRAINS ON ROOF, DISCONNECT GAS, CONTROLS, (E) EQUIPMENT PLATFORM TO REMAIN.
2. (E) PELICAN THERMOSTAT TO REMAIN (TYP)
3. (E) SA & RA DUCT & GRILLES TO REMAIN (TYP)
4. EXHAUST FAN ON ROOF TO REMAIN

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MECHANICAL DEMOLITION & NEW WORK PLAN - BUILDING 'D'

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PHASE III

M2311

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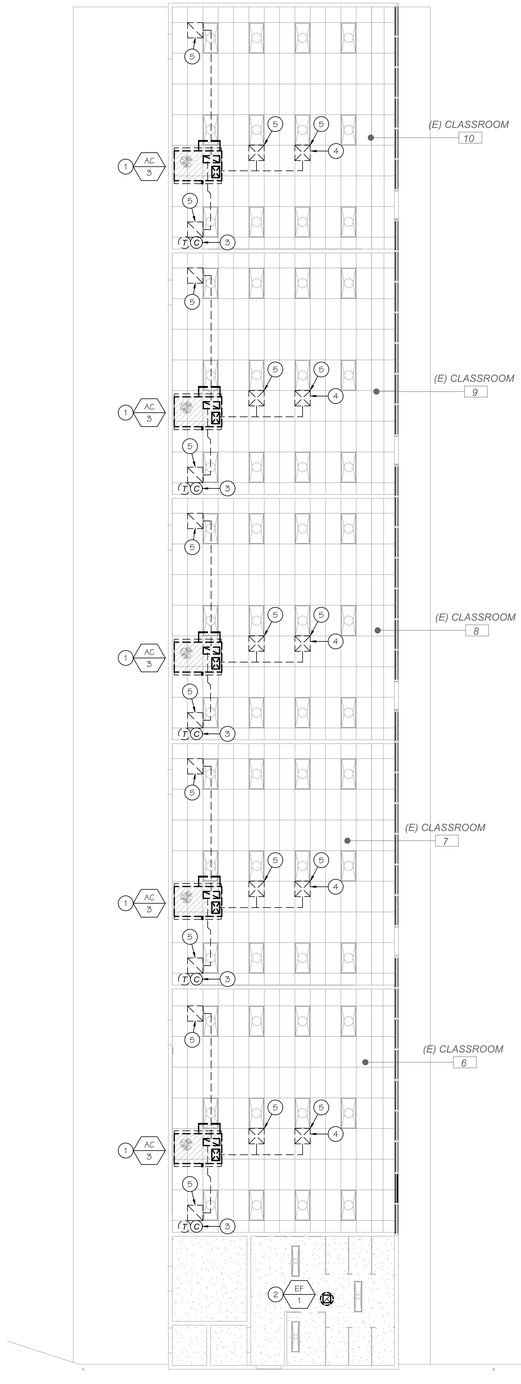
BLDG C PACKAGE UNITS			
UNIT TAG	ORIGINAL SCHEDULED WEIGHT	NEW UNIT WEIGHT	CHANGE IN WEIGHT (%)
AC-3	875	650	-26%

ORIGINAL WEIGHT FROM DSA APP # A8270

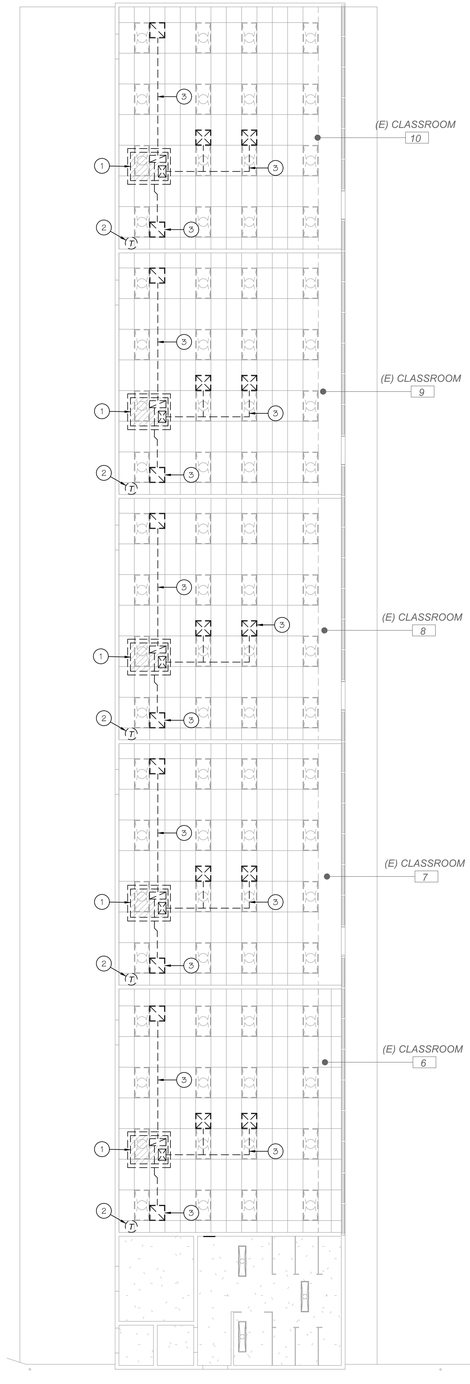


BLDG 'C' MECHANICAL FLOOR PLAN

SCALE: 1/8"=1'-0"

MECHANICAL KEYNOTES:

1. (N) PACKAGE UNIT ON ROOF. SEE DETAIL A/M4001 SET MIN. OSA TO MODULATE BETWEEN 170 CFM & 345 CFM, SET CO2 TO 1000 PPM
2. EXHAUST FAN ON ROOF SEE DETAIL C/M4001, W/12"x12" DUCT DROP DOWN TO 12"x12" CE-1, 490 CFM
3. (N) CO2 SENSOR MOUNT ADJACENT TO (E) PELICAN THERMOSTAT. PER DETAIL B/M4001.
4. BALANCE TO 975 (TYP OF 2)
5. MODIFY SA & RA DUCTS TO SHIFT IN GRID AS REQ'D FOR (N) LIGHT LOCATIONS



BLDG 'C' MECHANICAL DEMOLITION PLAN (EAST)

SCALE: 1/8"=1'-0"

MECHANICAL DEMO KEYNOTES:

1. DEMO (E) PACKAGE UNIT, CONDENSATE DRAINS ON ROOF, DISCONNECT GAS, CONTROLS, (E) EQUIPMENT PLATFORM TO REMAIN.
2. (E) PELICAN THERMOSTAT TO REMAIN (TYP)
3. (E) SA & RA DUCT & GRILLES TO REMAIN (TYP)

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MECHANICAL DEMOLITION & NEW WORK PLAN - BUILDING 'C'

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PHASE III

M2312

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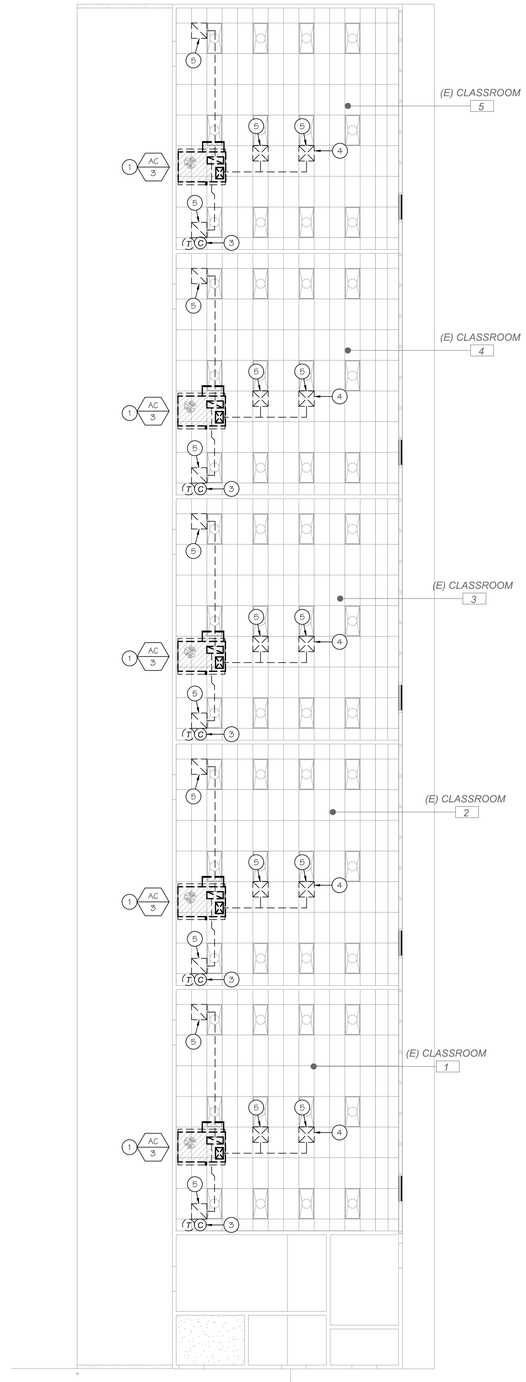
BLDG B PACKAGE UNITS			
UNIT TAG	ORIGINAL SCHEDULED WEIGHT	NEW UNIT WEIGHT	CHANGE IN WEIGHT (%)
AC-3	875	650	-26%

ORIGINAL WEIGHT FROM DSA APP # A8270

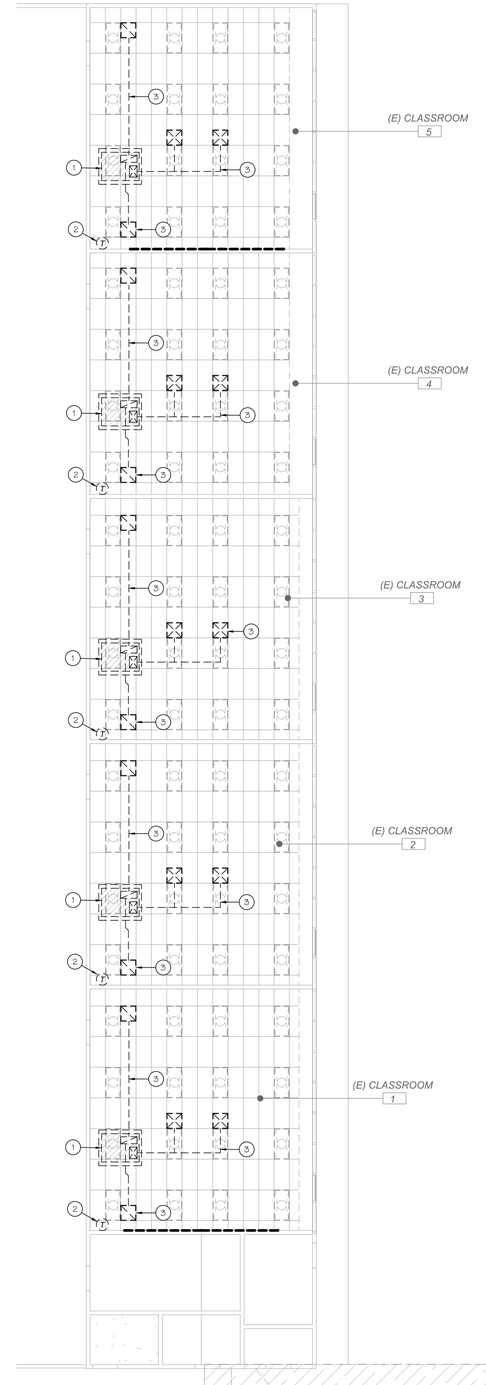


BLDG 'B' MECHANICAL PLAN

SCALE: 1/8"=1'-0"

MECHANICAL KEYNOTES:

1. (N) PACKAGE UNIT ON ROOF. SEE DETAIL A/M4001 SET MIN. OSA TO MODULATE BETWEEN 170 CFM & 345 CFM, SET CO2 TO 1000 PPM
2. EXHAUST FAN ON ROOF SEE DETAIL C/M4001, W/12"x12" DUCT DROP DOWN TO 12"x12" CE-1, 480 CFM
3. (N) CO2 SENSOR MOUNT ADJACENT TO (E) PELICAN THERMOSTAT. PER DETAIL B/M4001.
4. BALANCE TO 975 (TYP OF 2)
5. MODIFY SA & RA DUCTS TO SHIFT IN GRID AS REQ'D FOR (N) LIGHT LOCATIONS



BLDG 'B' MECHANICAL DEMOLITION PLAN

SCALE: 1/8"=1'-0"

MECHANICAL DEMO KEYNOTES:

1. DEMO (E) PACKAGE UNIT, CONDENSATE DRAINS ON ROOF, DISCONNECT GAS, CONTROLS, (E) EQUIPMENT PLATFORM TO REMAIN.
2. (E) PELICAN THERMOSTAT TO REMAIN (TYP)
3. (E) SA & RA DUCT & GRILLES TO REMAIN (TYP)

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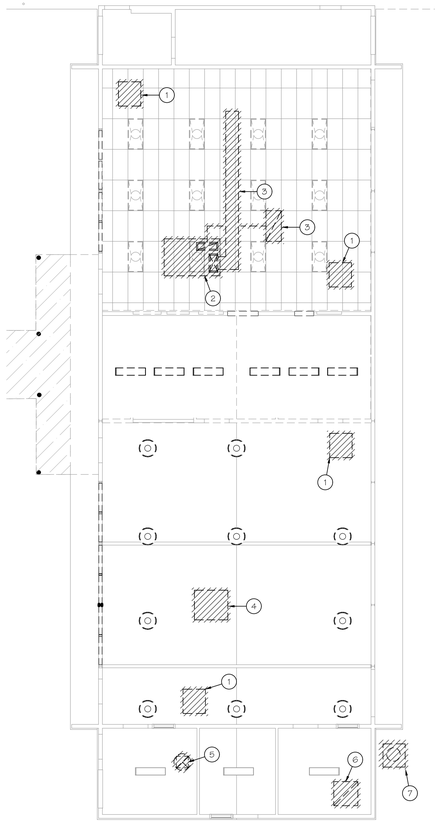
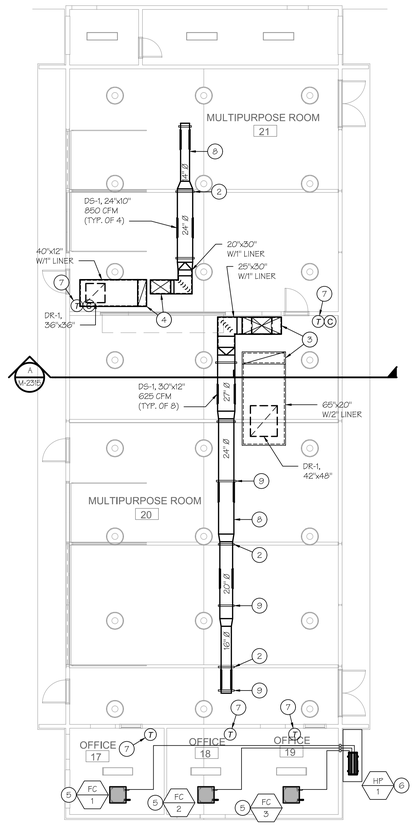


BLDG 'H' MECHANICAL DEMOLITION PLAN

SCALE: 1/8"=1'-0"

MECHANICAL DEMOLITION KEYNOTES:

1. DEMO (E) UNIT HEATER, FLUE, CONTROLS, GAS.
2. DEMO (E) PACKAGE UNIT, CURB ON ROOF, ALL ASSOCIATED DUCT WORK, REMOVE (E) PELICAN THERMOSTAT PROTECT FROM DAMAGE THERMOSTAT TO BE REINSTALLED.
3. DEMO (E) SA & RA DUCTS, GRILLES, DUCT SUPPORTS & HANGERS
4. DEMO (E) EVAP COOLER ON ROOF, SUPPORTS, CONTROLS, ALL ASSOCIATED DUCT WORK, CAP C.W. ABOVE ROOF.
5. DEMO (E) ROOF MOUNTED EXHAUST FAN, ROOF CURB, ALL ASSOCIATED DUCT WORK.
6. DEMO (E) SHEET METAL WEATHER HOOD ON ROOF & ALL ASSOCIATED DUCT WORK.
7. DEMO (E) DUST COLLECTOR, ASSOCIATED DUCT WORK & SUPPORTS, HOUSEKEEPING PAD

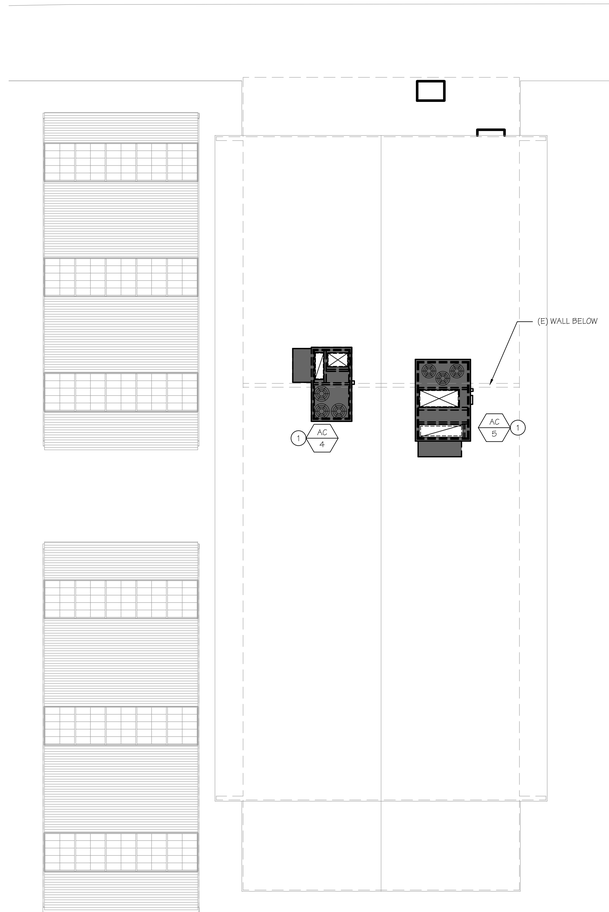


BLDG 'H' MECHANICAL PLAN

SCALE: 1/8"=1'-0"

MECHANICAL KEYNOTES:

1. PACKAGE UNIT ON ROOF, SEE DETAIL H/M4001 FOR ANCHORAGE.
2. EXPOSED DUCT ROUTE DUCT TIGHT TO STRUCTURE, SEE DETAIL 'B' I/M4001 FOR DUCT SUPPORT.
3. 60"x28" SUPPLY AIR DUCT DROP THRU ROOF TRANS. TO 30"x28" & 65"x16" RETURN DUCT DROP FROM AC-5, DIMENSIONS ARE NET INSIDE W/1" LINER
4. 20"x30" SUPPLY AIR DUCT DROP & 40"x12"RETURN AIR DUCT DROP THRU ROOF FROM AC-4
5. CEILING MOUNTED FAN COIL SEE DETAIL A/M4002
6. HEAT PUMP UNIT ON GRADE SEE DETAIL B/M4002
7. SEE TYPICAL THERMOSTAT MOUNTING DETAIL D/M4001
8. ETCH, PRIME COAT & PAINT DUCT WORK & GRILLES COORDINATE COLOR WITH ARCHITECTURAL (TYP. OF EXPOSED DUCT WORK)
9. EXPOSED DUCT, SEE DETAIL 'A' I/M4001



BLDG 'H' MECHANICAL ROOF PLAN

SCALE: 1/8"=1'-0"

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PHASE III

M2314

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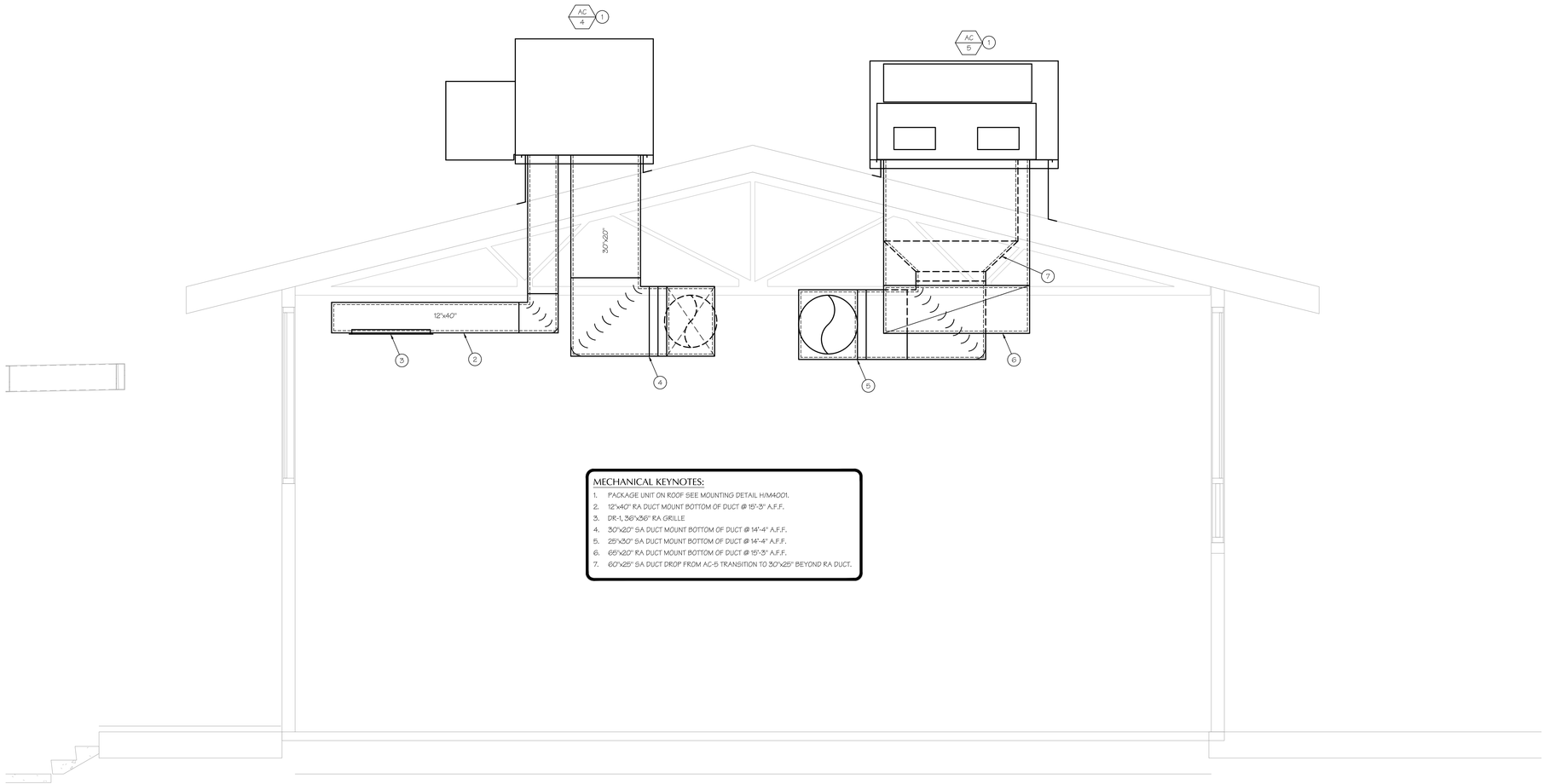

MECHANICAL KEYNOTES:

1. PACKAGE UNIT ON ROOF SEE MOUNTING DETAIL H/M4001.
2. 12"x40" RA DUCT MOUNT BOTTOM OF DUCT @ 15'-3" A.F.F.
3. DR-1, 36"x36" RA GRILLE
4. 30"x20" SA DUCT MOUNT BOTTOM OF DUCT @ 14'-4" A.F.F.
5. 25"x30" SA DUCT MOUNT BOTTOM OF DUCT @ 14'-4" A.F.F.
6. 65"x20" RA DUCT MOUNT BOTTOM OF DUCT @ 15'-3" A.F.F.
7. 60"x25" SA DUCT DROP FROM AC-5 TRANSITION TO 30"x25" BEYOND RA DUCT.

BUILDING 'H' MECHANICAL SECTION

SCALE: 1/2"=1'-0"

A

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BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	11/21/2019

SHEET TITLE

MECHANICAL PLAN - SECTION BUILDING 'H'

SHEET NUMBER

PHASE III

M2315

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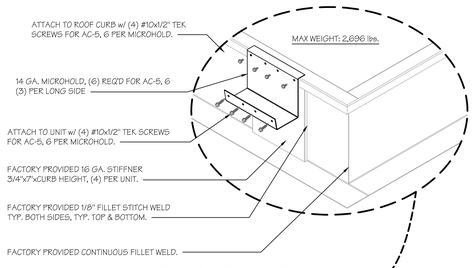
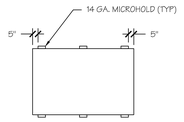
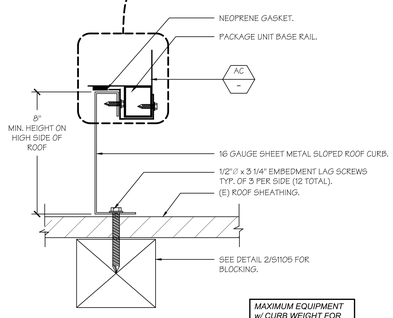


WELDED CURB CORNER DETAIL



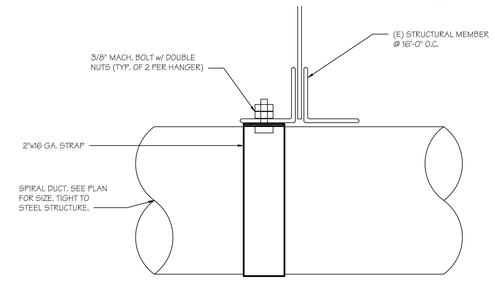
HOLD DOWN PLATE PLAN VIEW



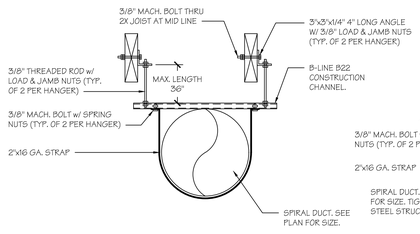
MAXIMUM EQUIPMENT w/ CURB WEIGHT FOR THIS DETAIL IS 2,696 lbs.

AC-4, 5 PACKAGE UNIT ANCHORAGE — H

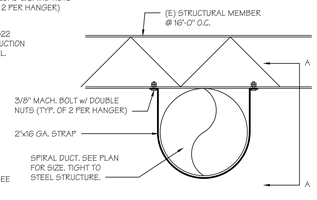
NO SCALE:



SECTION A-A



'A' SUPPORT AT ROOF JOIST



'B' SUPPORT AT STRUCTURAL MEMBERS

DUCT SUPPORT — I

DIAGRAMMATIC

RECTANGULAR DUCT HANGERS				
Maximum Half of Duct perimeter	*Pair at 10 ft Spacing*	*Pair at 8 ft Spacing*	*Pair at 5 ft Spacing*	*Pair at 4 ft Spacing*
	Strap	*Strap*	*Strap*	*Strap*
P/2 = 30"	*1" x 22 ga*	*1" x 22 ga*	*1" x 22 ga*	*1" x 22 ga*
P/2 = 72"	*1" x 18 ga*	*1" x 20 ga*	*1" x 22 ga*	*1" x 22 ga*
P/2 = 96"	*1" x 16 ga*	*1" x 18 ga*	*1" x 20 ga*	*1" x 22 ga*
P/2 = 120"	*1-1/2" x 16 ga*	*1" x 16 ga*	*1" x 18 ga*	*1" x 20 ga*

NOTES:

A. STRAPS ARE GALVANIZED STEEL; OTHER MATERIALS ARE UNCOATED STEEL.

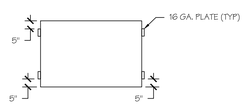
B. 12,10, OR 8 GA WIRE IS STEEL OF BLACK ANNEALED, BRIGHT BASIC, OR GALVANIZED TYPE.

ROUND DUCT HANGERS		
RIGID DUCT		
10 in. dn	*12 ft.*	*1 in. x 22 ga*
11-18 in.	*12 ft.*	*1 in. x 22 ga*
19-24 in.	*12 ft.*	*1 in. x 22 ga*
25-36 in.	*12 ft.*	*1 in. x 20 ga*

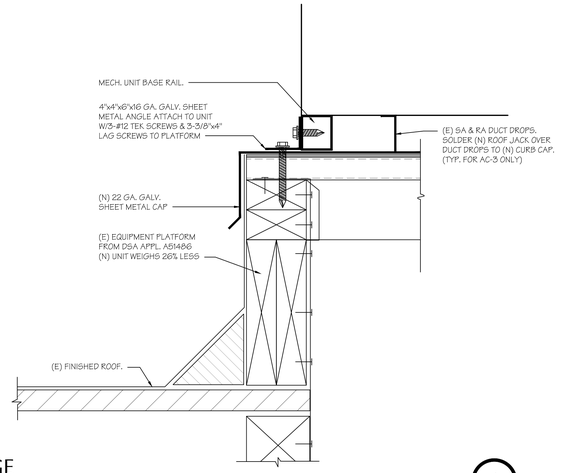
NOTES:

A. STRAPS ARE GALVANIZED STEEL;

MAXIMUM EQUIPMENT WEIGHT FOR THIS DETAIL IS 650 lbs.

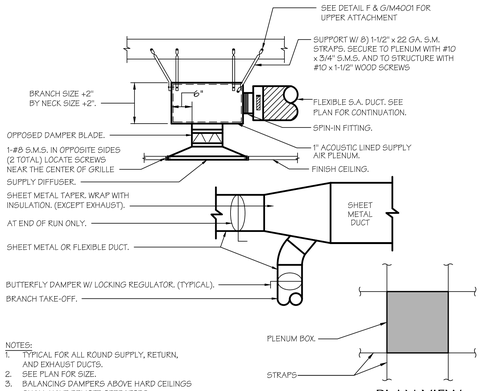


HOLD DOWN PLATE PLAN VIEW



A.C.-1, 2, 3 UNIT ANCHORAGE — A

SCALE: NTS

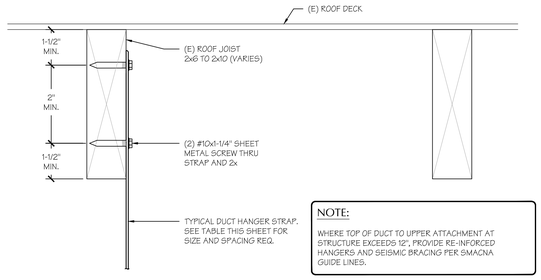


NOTES:
1. TYPICAL FOR ALL ROUND SUPPLY, RETURN, AND EXHAUST DUCTS.
2. SEE PLAN FOR SIZE.
3. BALANCING DAMPERS ABOVE HARD CEILINGS SHALL HAVE REMOTE OPERATORS.

PLAN VIEW

SUPPLY AIR PLENUM AND BRANCH DUCTS — E

SCALE: NTS

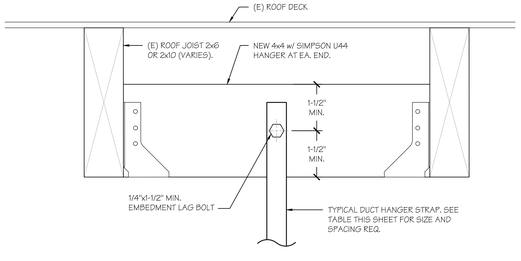


NOTE:

WHERE TOP OF DUCT TO UPPER ATTACHMENT AT STRUCTURE EXCEEDS 12", PROVIDE RE-INFORCED HANGERS AND SEISMIC BRACING PER SMACNA GUIDE LINES.

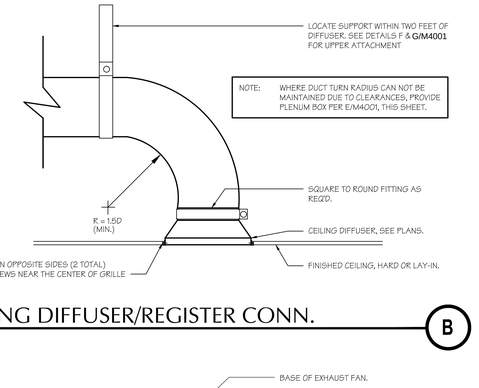
DUCT HANGER UPPER ATTACHMENT #1 — F

SCALE: NTS



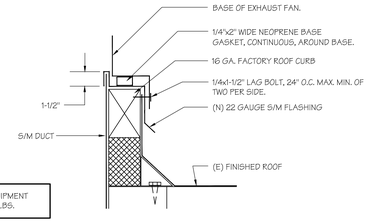
DUCT HANGER UPPER ATTACHMENT #2 — G

SCALE: NTS



CEILING DIFFUSER/REGISTER CONN. — B

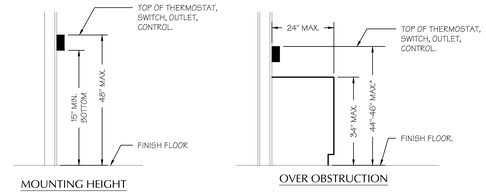
SCALE: NTS



MAXIMUM EQUIPMENT WEIGHT = 50 LBS.

ROOF MOUNTED EXHAUST FAN — C

SCALE: NTS



* 44" MAX. FOR WHEEL CHAIR FORWARD APPROACH AND 46" MAX. FOR SIDE APPROACH PER CBC FIGURE 11B-308.2 & 11B-308.3.

THERMOSTAT LOCATION DETAIL — D

SCALE: NTS

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MECHANICAL DETAILS

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PHASE III

M4001

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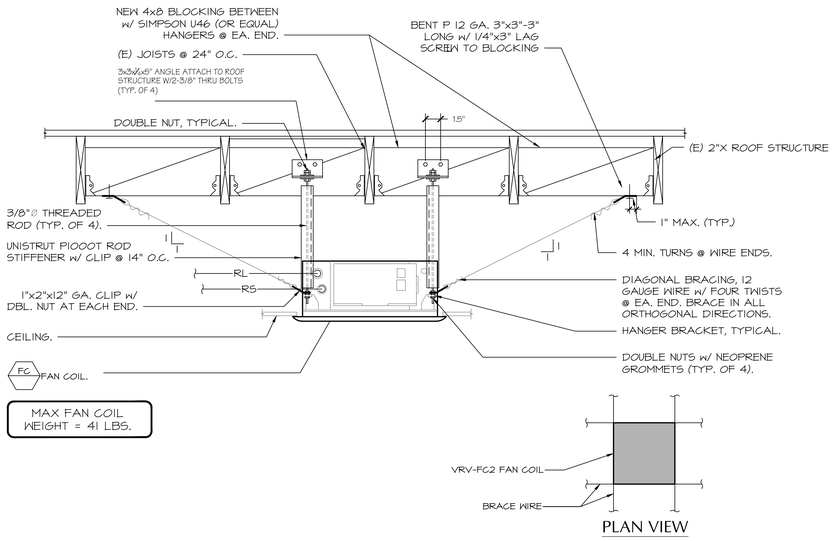
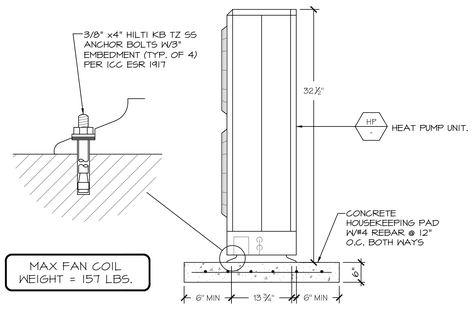


CEILING CASSETTE FAN COIL

SCALE: N.T.S.

A



HEAT PUMP UNIT ON HOUSEKEEPING PAD

SCALE: N.T.S.

B

PACKAGE AIR CONDITIONING SCHEDULE

DESIGNATION	AC-1	AC-2	AC-3	AC-4	AC-5
VOLTS/PHASE	208 / 1	208 / 3	460 / 3	460 / 3	460 / 3
F.L.A.	16.5	22.8	10.3	22.9	31.1
MCA/MOCP (AMPS)	19.4 / 30	26.3 / 40	13 / 15	25 / 30	33.9 / 45
SEER/EER @ ARI	15.0 / --	16.0 / --	16.0 / --	-- / 19.8	-- / 19.1
ECONOMIZER					
HP	-	-	-	1.0	2.0
FLA	-	-	-	2.5	4.0
MCA/MOCP	-	-	-	4.8 / 9.6	5.0 / 10.0
BLOWER					
SUPPLY AIR (CFM)	800	1600	1950	2244 - 3400 (STAGED)	3300 - 5000 (STAGED)
EXT. S P (IN. WC)	0.35	0.35	0.70	0.75	0.75
MIN. O.S.A. (CFM)	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
HP/BHP	0.5 / 0.23	0.75 / 0.45	1.0 / 0.84	2.5 / 1.49	2.5 / 1.69
RPM	1050	1075	1993	675	742
DRIVE	DIRECT	DIRECT	DIRECT	BELT	BELT
COOLING					
SENSIBLE (MBH)	16.8	34.2	46.4	77.3	110.8
TOTAL (MBH)	20.8	43.2	59.0	98.2	140.0
EADB/EAWB (0F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
AMBIENT AIR (0F)	95	95	95	95	95
HEATING					
INPUT CAPACITY (MBH)	40.0	90.0	67.0	150.0	176.0
OUTPUT CAPACITY (MBH)	33.0	74.0	54.0	120.0	143.0
FUEL	NAT. GAS	NAT. GAS	NAT. GAS	NAT. GAS	NAT. GAS
AFUE (%)	81	81	81	80	81
FILTER					
QUANTITY/SIZE (RETURN)	1 / 10"x20"x2"	1) 16"x 24"x 2"	4 / 16"x16"x2"	6) 18"x 24"x 2"	4) 20"x 20"x 2"
	1 / 12"x20"x2"	1) 18"x24"x2"			
TYPE	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8
QUANTITY/SIZE (OUTDOOR)	2) 12"x20"x1"	1) 16"x24"x 1"	1) 20"x24"x1"	2) 24"x27"x1"	4) 16"x25"x1
		1) 18"x24"x1"			
TYPE	CLEANABLE	CLEANABLE	CLEANABLE	CLEANABLE	CLEANABLE
P D (IN WC)	0.3	0.3	0.3	0.3	0.3
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
TYPE	GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECTRIC	GAS/ELECTRIC
MODEL NUMBER	48VGNB240403	48VGNA480905	48GCDM06	48LCD09	48LCD014
LOCATION	ROOF	ROOF	ROOF	ROOF	ROOF
OPER. WT (LBS)	372	558	650	2162	2696
ACCESSORIES	1, 6 THRU 9	1, 6 THRU 9	1, 3, 6 THRU 9, 14, 15	2 THRU 16	2 THRU 16

1. INTEGRATED ECONOMIZER WITH DRY BULB CONTROLS AND BAROMETRIC RELIEF
2. INTEGRATED ECONOMIZER WITH DRY BULB CONTROLS W/MODULATING POWERED EXHAUST, PROVIDE SEPARATE DISCONNECT FOR POWERED EXHAUST. COORDINATE WITH ELECTRICAL.
3. WALL MOUNTED C02 SENSOR AND ASSOCIATED IAQ CONTROLS PACKAGE TO OVERRIDE ECONOMIZER FUNCTION.
4. MINIMUM 16 GAUGE FULLY WELDED SLOPED ROOF CURB 8" MAX. HEIGHT ON SHORT SIDE(CONFIRM ROOF PITCH BEFORE ORDERING). MINIMUM HEIGHT TO WORK WITH POWER EXHAUST FAN MODULE.
5. HINGED ACCESS DOORS WITH 1/4 TURN LATCHES AND TIEBACKS.
6. INTERNAL HIGH AND LOW PRESSURE COMPRESSOR PROTECTION.
7. TXV REFRIGERANT METERING DEVICE ON EACH CIRCUIT.
8. FLUE DISCHARGE DEFLECTOR CUT LEVEL W/TOP OF UNIT.
9. TIME GUARD II ANTI-RECYCLE KIT.
10. STAGED AIR VOLUME SYSTEM WITH MEDIUM STATIC BELT DRIVE MOTOR W/VFD AND DISPLAY KIT. FIELD COMMISSION FUNCTION OF STAGED AIR VOLUME CONTROLLER.
11. FACTORY START-UP.
12. FIELD COMMISSION OUTSIDE AIR DAMPER TO STAGE ACCORDING TO SUPPLY FAN VFD AS REQUIRED TO COMPENSATE FOR SUPPLY FAN VARIABLE AIRFLOW.
13. CARRIER COMFORTLINK CONTROLLER.
14. ECONOMIZERS SHALL MEET ALL REQUIREMENTS PER T24, 2016 ENERGY EFFICIENCY STANDARDS, 140.4. (e).
15. ECONOMIZERS FOR UNITS LARGER THAN FOUR TON SHALL HAVE FACTORY FAULT DETECTION AND DIAGNOSTICS (FDD) PER 2016 ENERGY EFFICIENCY STANDARDS, 120.2 (I)
16. SEE ELECTRICAL FOR AUTOMATIC SHUT DOWN

EXHAUST FAN SCHEDULE

DESIGNATION	EF-1	EF-2
CFM	490	1,050
EXT. S P (IN. WC)	0.30	0.30
BHP/HP/WATTS	0.04 / 0.10 / --	.09 / .25 / --
VOLTS/ PHASE	115/1	115/1
RPM	1,323	762
SONES (dBA)	5.6	5.8
DRIVE	DIRECT	DIRECT
MOUNTING	ROOF	ROOF
MANUFACTURER	GREENHECK	GREENHECK
TYPE	CENTRIFUGAL	CENTRIFUGAL
MODEL NUMBER	G-090-VG	G-143-VG
OPER. WT. (LBS)	26	50
START/STOP INTERLOCK WITH	SEE NOTE #4	SEE NOTE #4
ACCESSORIES	1, 2, 3	1, 2, 3

1. NEMA-1 TOGGLE MOUNTED AND WIRED SWITCH.
2. ROOF CURB W/BACK DRAFT DAMPER.
3. ECM MOTOR
4. INTERLOCK WITH CLOSEST AC UNIT W/RIB. EXHAUST FAN TO RUN WHEN UNIT IS IN OCCUPIED MODE, COORDINATE WITH ELECTRICAL.

GRILLE SCHEDULE

MARK	DUTY	DESCRIPTION
DS-1	DUCT SUPPLY	TITUS MODEL S300FS DOUBLE DEFLECTION DIFFUSER FOR SPIRAL DUCT MOUNTING W/EXTRACTOR.
CD-1	CEILING SUPPLY	TITUS MODEL TDC LOUVERED FACE DIFFUSER WITH SURFACE MOUNT FRAME AND O.B.D. SEE DIFFUSER SIZING CHART ON PLANS FOR NECK SIZE.
CD-2	CEILING SUPPLY	TITUS TDC LOUVERED FACE DIFFUSER WITH T-BAR FRAME AND O.B.D. SEE DIFFUSER SIZING CHART FOR NECK SIZE.
DS-1	DUCT SUPPLY	TITUS DL-SV DRUM LOUVER WITH SURFACE MOUNTING FRAME AND EXTRACTOR.
CR-1	CEILING RETURN	TITUS 50F EGG CRATE RETURN GRILLE WITH SURFACE MOUNTING FRAME.
CR-2	CEILING RETURN	TITUS 50F EGG CRATE RETURN GRILLE WITH T-BAR FRAME.
DR-1	DUCT RETURN	TITUS 350RL HEAVY DUTY GRILLE, WITH O.B.D., AND NO. 26 OFF-WHITE FINISH.
CE-1	CEILING EXHAUST	TITUS 50F EGG CRATE RETURN GRILLE WITH SURFACE MOUNTING FRAME.

1. PAINT ALL VISIBLE SURFACES BEHIND DIFFUSERS AND GRILLES FLAT BLACK.
2. FINISH SHALL BE #26 WHITE UNLESS OTHERWISE NOTED.

FAN COIL SCHEDULE

DESIGNATION	FC-1, 2, 3
SUPPLY AIR (CFM)	380
EXT. SP (IN WC)	--
TOTAL (MBH) COOL / HEAT	9.6 / 6.6
EADB/EAWB/AMBIENT (F)	ARI
MCA / MOCP	5.3 / 15
VOLTS/PHASE	208/230-1
MANUFACTURER	CARRIER
MODEL NUMBER	40MBCQ09--3
OPER. WT (LBS)	31
ACCESSORIES	1, 3, 4, 6

1. 24 VOLT CONTROL INTERFACE KSAIC0301230.
2. PROVIDE PELICAN TS200 PROGRAMMABLE THERMOSTAT
3. UNIT POWERED FROM OUTDOOR UNIT.

HEAT PUMP UNIT SCHEDULE

DESIGNATION	HP-1
MCA	30
VOLTS/PHASE	208/230/1
ARI COOLING CAPACITY (MBH)	29.0
SEER / HSPF	20.4 / 10.0
MANUFACTURER	CARRIER
TYPE	AIR COOLED
MODEL NUMBER	38MGRQ30D--3
OPER. WT (LBS)	157
ACCESSORIES	1 THRU 3

1. INSULATED COPPER SUCTION AND LIQUID LINE.
2. AUTO RESTART UPON POWER FAILURE.
3. ANTI SHORT CYCLE TIMER.

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CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 1 of 3)
Project Name: Bessie Owens Junior High Modernization Bldg B, C, D	Date Prepared: 9/13/2019

A. MECHANICAL COMPLIANCE FORMS & WORKSHEETS
(indicate if worksheet is included)

For detailed instructions on the use of this and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual
Note: The Enforcement Agency may require all compliance documents to be incorporated onto the building plans. The NRCC-MCH-04-E and NRCC-MECH-05-E are alternative compliance documents to NRCC-MCH-01-E, NRCC-MCH-02-E and NRCC-MCH-03-E for projects using only single zone packaged HVAC systems.

YES	NO	Form	Title
✓		NRCC-MCH-04-E (1 of 2)	Certificate of Compliance. Required on plans when used.
✓		NRCC-MCH-04-E (2 of 2)	Mechanical Acceptance Tests. Required on plans when used.
✓		NRCC-MCH-05-E (1 of 2)	HVAC Prescriptive Requirements. It is required on plans when used.
✓		NRCC-MCH-05-E (2 of 2)	Mechanical SWH Equipment Summary is required for all submittals with service water heating, pools or spas. It is required on plans where applicable.

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 2 of 3)
Project Name: Bessie Owens Junior High Modernization Bldg B, C, D	Date Prepared: 9/13/2019

Designer:
This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and list all equipment that require an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this compliance document will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Enforcement Agency:
Systems Acceptance. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.

Systems Acceptance. Before occupancy permit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements.
The NRCC-MCH-04-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for ALL newly installed and replaced equipment. In addition a Certificate of Acceptance documents shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-103(b) and Title 24 Part 6. The building inspector must receive the properly filled out and signed compliance documents before the building can receive final occupancy.

Test Description		MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-11-A	MCH-12-A	MCH-14-A	MCH-18-A	Test Performed By:
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Automatic Demand Shed Control	FDD for Packaged DX Units	Distributed Energy Storage DX AC Systems	Energy Management Control System	
Carrier Corp	14		✓		✓				✓			

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 3 of 3)
Project Name: Bessie Owens Junior High Modernization Bldg B, C, D	Date Prepared: 9/13/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Mike Mundschau P.E.	Documentation Author Signature:	
Company:	Baskin Mechanical Engineers	Signature Date:	9/13/2019
Address:	5500 Ming Ave., Suite 251	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Bakersfield, California 93309	Phone:	(661)397-2114

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Mark Baskin	Responsible Designer Signature:	
Company:	Baskin Mechanical Engineers	Date Signed:	11/12/19
Address:	5500 Ming Avenue, Suite 251	License:	M26578
City/State/Zip:	Bakersfield , California 93309	Phone:	(661)397-2114

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 1 of 2)
Project Name: Bessie Owens Junior High Modernization Bldg B, C, D	Date Prepared: 9/13/2019

Equipment Tag(s)[1]		AC-3		AC-3		AC-3	
MANDATORY MEASURES	***T-24 Sections***	***Requirement*[2]**	***As Scheduled*[3]**	***Requirement*[2]**	***As Scheduled*[3]**	***Requirement*[2]**	***As Scheduled*[3]**
Heating Equipment Efficiency[4]	110.1 or 110.2(a)	81% AFUE	81% AFUE	81% AFUE	81% AFUE	81% AFUE	81% AFUE
Cooling Equipment Efficiency[4]	110.1 or 110.2(a)	13 SEER	16.0 SEER / 12	13 SEER	16.0 SEER / 12	13 SEER	16.0 SEER / 12.(
Thermostats[5]	110.2(b), 110.2(c)	Setback	Setback	Setback	Setback	Setback	Setback
Furnace Standby Loss Control[6]	110.2(d)	n/a		n/a		n/a	
Low Leakage AHU	110.2(f)	NR	none	NR	none	NR	none
Ventilation[7]	120.1(b)	342	342	342	342	342	342
Demand Control Ventilation[8]	120.1(c)4	NR	No	NR	No	NR	No
Occupant Sensor Ventilation Control[9]	120.1(c)5, 120.2(e)3						
Shutoff and Reset Controls[9]	120.2(e)	Req	Programmable	Req	Programmable	Req	Programmable S
Outdoor Air and Exhaust Damper Control	120.2(f)	Req	Auto	Req	Auto	Req	Auto
Automatic Demand Shed Controls	120.2(h)	NR	none	NR	none	NR	none
Economizer FDD	120.2(i)	Req	Yes	Req	Yes	Req	Yes
Duct Insulation	120.4	R-8	R-4.8	R-8	R-4.8	R-8	R-4.8
PRESCRIPTIVE MEASURES							
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	53,030 Btu/hr 72,262 Btu/hr	162,000 Btu/hr 149,448 Btu/hr	45,840 Btu/hr 70,218 Btu/hr	162,000 Btu/hr 149,404 Btu/hr	31,739 Btu/hr 85,724 Btu/hr	432,000 Btu/hr 390,661 Btu/hr
Economizer	140.4(e)	Req	Diff. Temp (Int	Req	Diff. Temp (Inte	Req	Diff. Temp (Integ
Electric Resistance Heating[10]	140.4(g)	No	No	No	No	No	No
Duct Leakage Sealing and Testing[11]	140.4(l)	NR	No	NR	No	NR	No

Notes:
1. *Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.*
2. *Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).*
3. *For each requirement, enter the minimum requirement from the Standard In the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified.*
4. *Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).*
5. *In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heat pump with electric heat), . In the right column indicate the capabilities of the thermostat as scheduled.*
6. *If the unit has a furnace which is rated at ≥225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A".*
7. *In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.*
8. *If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)*
9. *In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).*
10. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*
11. *If duct leakage sealing and testing is required, a **MCH-04-A** compliance document must be submitted.*

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 2 of 2)
Project Name: Bessie Owens Junior High Modernization Bldg B, C, D	Date Prepared: 9/13/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Mike Mundschau P.E.	Documentation Author Signature:	
Company:	Baskin Mechanical Engineers	Signature Date:	9/13/2019
Address:	5500 Ming Ave., Suite 251	CEA/HERS Certification Identification (if applicable):	
City/State/Zip:	Bakersfield, California 93309	Phone:	(661)397-2114

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Mark Baskin	Responsible Designer Signature:	
Company:	Baskin Mechanical Engineers	Date Signed:	11/12/19
Address:	5500 Ming Avenue, Suite 251	License:	M26578
City/State/Zip:	Bakersfield , California 93309	Phone:	(661)397-2114

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

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REVISIONS

NO.	DATE SUBMITTED	DATE APPROVED	DESCRIPTION

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER — JOHN JAMES BASKIN — No. M26578 — Exp. 9-30-20 — MECHANICAL — STATE OF CALIFORNIA

BASKIN MECHANICAL ENGINEERS
5500 Ming Ave., Suite 251
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Tel: (661) 397-2114
Job: 19067
Plt: 02-11-20

PRIME CONSULTANT

IBI — ARCHITECTURE PLANNING
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805.546.0433 fax: 805.546.0504
ibigroup.com

BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	11/21/2019

SHEET TITLE

MECHANICAL TITLE 24 BUILDING B, C, D

SHEET NUMBER

PHASE III

M4003

DSA SUBMITTAL SET

PLOT DATE: 2019-11-12 2:21:40 PM C:\Users\ruben.ruiz\Documents\ATY\-118934-BessieOwensHS_Site 06-26-19_r2018_ruben.ruiz.rvt

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 1 of 3)
Project Name: Bessie Owens Junior High Modernization Bldg E	Date Prepared: 9/13/2019

A. MECHANICAL COMPLIANCE FORMS & WORKSHEETS
(indicate if worksheet is included)

For detailed instructions on the use of this and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual

Note: The Enforcement Agency may require all compliance documents to be incorporated onto the building plans. The NRCC-MCH-04-E and NRCC-MECH-05-E are alternative compliance documents to NRCC-MCH-01-E, NRCC-MCH-02-E and NRCC-MCH-03-E for projects using only single zone packaged HVAC systems.

YES	NO	Form	Title
✓		NRCC-MCH-04-E (1 of 2)	Certificate of Compliance. Required on plans when used.
✓		NRCC-MCH-04-E (2 of 2)	Mechanical Acceptance Tests. Required on plans when used.
✓		NRCC-MCH-05-E (1 of 2)	HVAC Prescriptive Requirements. It is required on plans when used.
✓		NRCC-MCH-05-E (2 of 2)	Mechanical SWH Equipment Summary is required for all submittals with service water heating, pools or spas. It is required on plans where applicable.

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 2 of 3)
Project Name: Bessie Owens Junior High Modernization Bldg E	Date Prepared: 9/13/2019

Designer:
This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and list all equipment that require an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this compliance document will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Enforcement Agency:
Systems Acceptance. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.

Systems Acceptance. Before occupancy permit is granted. All newly installed HVAC equipment must be tested using the Acceptance Requirements.
The NRCC-MCH-04-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for ALL newly installed and replaced equipment. In addition a Certificate of Acceptance documents shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-103(b) and Title 24 Part 6. The building inspector must receive the properly filled out and signed compliance documents before the building can receive final occupancy.

Test Description	MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-11-A	MCH-12-A	MCH-14-A	MCH-18-A	Test Performed By:
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Automatic Demand Shed Control	FDD for Packaged DX Units	Distributed Energy Storage DX AC Systems	Energy Management Control System	
Carrier 48V(	5	✓	✓		✓							
Carrier 48V(	1	✓	✓		✓							

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-04-E
Required Acceptance Tests	(Page 3 of 3)
Project Name: Bessie Owens Junior High Modernization Bldg E	Date Prepared: 9/13/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Mike Mundschau P.E.	Documentation Author Signature:
Company: Baskin Mechanical Engineers	Signature Date: 9/13/2019
Address: 5500 Ming Ave., Suite 251	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Bakersfield, California 93309	Phone: (661)397-2114

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
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4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Mark Baskin	Responsible Designer Signature:
Company: Baskin Mechanical Engineers	Date Signed:
Address: 5500 Ming Avenue, Suite 251	License: M26578
City/State/Zip: Bakersfield , California 93309	Phone: (661)397-2114

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 1 of 2)
Project Name: Bessie Owens Junior High Modernization Bldg E	Date Prepared: 9/13/2019

Equipment Tag(s)[1]		AC-2		AC-2		AC-2	
MANDATORY MEASURES	*T-24 Sections*	*Requirement*[2]	*As Scheduled*[2]	*Requirement*[2]	*As Scheduled*[2]	*Requirement*[2]	*As Scheduled*[2]
Heating Equipment Efficiency[3]	110.1 or 110.2(a)	81% AFUE	80% AFUE	81% AFUE	80% AFUE	81% AFUE	80% AFUE
Cooling Equipment Efficiency[3]	110.1 or 110.2(a)	13 SEER	16.0 SEER / 12	13 SEER	16.0 SEER / 12	13 SEER	16.0 SEER / 12.(
Thermostats[5]	110.2(b), 110.2(c)	Setback	Setback	Setback	Setback	Setback	Setback
Furnace Standby Loss Control[6]	110.2(d)	n/a		n/a		n/a	
Low Leakage AHU	110.2(f)	NR	none	NR	none	NR	none
Ventilation[7]	120.1(b)	342	342	348	348	348	348
Demand Control Ventilation[8]	120.1(c)4	NR	No	NR	No	NR	No
Occupant Sensor Ventilation Control[9]	120.1(c)5, 120.2(e)3						
Shutoff and Reset Controls[9]	120.2(e)	Req	Programmable	Req	Programmable	Req	Programmable S
Outdoor Air and Exhaust Damper Control	120.2(f)	Req	Auto	Req	Auto	Req	Auto
Automatic Demand Shed Controls	120.2(h)	NR	none	NR	none	NR	none
Economizer FDD	120.2(i)	NR	No	NR	No	NR	No
Duct Insulation	120.4	R-8	R-4.8	R-8	R-4.8	R-8	R-4.8
PRESCRIPTIVE MEASURES							
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	42,349 Btu/hr 54,023 Btu/hr	74,000 Btu/hr 41,014 Btu/hr	39,761 Btu/hr 53,237 Btu/hr	74,000 Btu/hr 41,038 Btu/hr	39,761 Btu/hr 53,237 Btu/hr	74,000 Btu/hr 41,038 Btu/hr
Economizer	140.4(e)	NR	Diff. Temp (Int	NR	Diff. Temp (Inte	NR	Diff. Temp (Integ
Electric Resistance Heating[10]	140.4(g)	No	No	No	No	No	No
Duct Leakage Sealing and Testing.[11]	140.4(l)	NR	No	NR	No	NR	No

Notes:
1. *Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.*
2. *Enter the following Information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).*
3. *For each requirement, enter the minimum requirement from the Standard in the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified.*
4. *Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).*
5. *In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heat pump with electric heat), . In the right column indicate the capabilities of the thermostat as scheduled.*
6. *If the unit has a furnace which is rated at ≥225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A".*
7. *In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.*
8. *If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)*
9. *In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).*
10. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*
11. *If duct leakage sealing and testing is required, a **MCH-04-A** compliance document must be submitted.*

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 1 of 2)
Project Name: Bessie Owens Junior High Modernization Bldg E	Date Prepared: 9/13/2019

Equipment Tag(s)[1]		AC-2		AC-2		AC-2	
MANDATORY MEASURES	*T-24 Sections*	*Requirement*[2]	*As Scheduled*[2]	*Requirement*[2]	*As Scheduled*[2]	*Requirement*[2]	*As Scheduled*[2]
Heating Equipment Efficiency[3]	110.1 or 110.2(a)	81% AFUE	80% AFUE	81% AFUE	80% AFUE	81% AFUE	80% AFUE
Cooling Equipment Efficiency[3]	110.1 or 110.2(a)	13 SEER	16.0 SEER / 12	13 SEER	16.0 SEER / 12	14 SEER	15.0 SEER / 12.(
Thermostats[5]	110.2(b), 110.2(c)	Setback	Setback	Setback	Setback	Setback	Setback
Furnace Standby Loss Control[6]	110.2(d)	n/a		n/a		n/a	
Low Leakage AHU	110.2(f)	NR	none	NR	none	NR	none
Ventilation[7]	120.1(b)	348	348	348	348	105	105
Demand Control Ventilation[8]	120.1(c)4	NR	No	NR	No	NR	No
Occupant Sensor Ventilation Control[9]	120.1(c)5, 120.2(e)3						
Shutoff and Reset Controls[9]	120.2(e)	Req	Programmable	Req	Programmable	Req	Programmable S
Outdoor Air and Exhaust Damper Control	120.2(f)	Req	Auto	Req	Auto	Req	Auto
Automatic Demand Shed Controls	120.2(h)	NR	none	NR	none	NR	none
Economizer FDD	120.2(i)	NR	No	NR	No	NR	No
Duct Insulation	120.4	R-8	R-4.8	R-8	R-4.8	R-8	R-4.8
PRESCRIPTIVE MEASURES							
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	39,761 Btu/hr 53,237 Btu/hr	74,000 Btu/hr 41,038 Btu/hr	39,761 Btu/hr 53,237 Btu/hr	74,000 Btu/hr 41,038 Btu/hr	13,721 Btu/hr 16,486 Btu/hr	33,000 Btu/hr 19,042 Btu/hr
Economizer	140.4(e)	NR	Diff. Temp (Int	NR	Diff. Temp (Inte	NR	Diff. Temp (Integ
Electric Resistance Heating[10]	140.4(g)	No	No	No	No	No	No
Duct Leakage Sealing and Testing.[11]	140.4(l)	NR	No	NR	No	NR	No

Notes:
1. *Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.*
2. *Enter the following Information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).*
3. *For each requirement, enter the minimum requirement from the Standard in the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified.*
4. *Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).*
5. *In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heat pump with electric heat), . In the right column indicate the capabilities of the thermostat as scheduled.*
6. *If the unit has a furnace which is rated at ≥225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A".*
7. *In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.*
8. *If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)*
9. *In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).*
10. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*
11. *If duct leakage sealing and testing is required, a **MCH-04-A** compliance document must be submitted.*

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units	(Page 2 of 2)
Project Name: Bessie Owens Junior High Modernization Bldg E	Date Prepared: 9/13/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Mike Mundschau P.E.	Documentation Author Signature:
Company: Baskin Mechanical Engineers	Signature Date: 9/13/2019
Address: 5500 Ming Ave., Suite 251	CEA/HERS Certification Identification (if applicable):
City/State/Zip: Bakersfield, California 93309	Phone: (661)397-2114

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Mark Baskin	Responsible Designer Signature:
Company: Baskin Mechanical Engineers	Date Signed: 11/12/19
Address: 5500 Ming Avenue, Suite 251	License: M26578
City/State/Zip: Bakersfield , California 93309	Phone: (661)397-2114

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT — Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:

PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	11/21/2019

SHEET TITLE

MECHANICAL TITLE 24 BUILDING E

SHEET NUMBER

PHASE III

M4004

DSA SUBMITTAL SET

PLOT DATE: 2019-11-12 2:21:46 PM C:\Users\ruben.ruiz\Documents\ATH-118934-BessieOwensMS_Site 06-25-19_r2018_ruben.ruiz.rvt

A. PROJECT GENERAL INFORMATION

1.	Project Location (city)	Bakersfield	8.	Standards Version	Compliance2016
2.	CA Zip Code	93305	9.	Compliance Software (version)	EnergyPro 7.2
3.	Climate Zone	13	10.	Weather File	BAKERSFIELD_723840_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	3,364 ft²	11.	Building Orientation (deg)	(N) 0 deg
5.	Total Unconditioned Floor Area	0 ft²	12.	Permitted Scope of Work	ExistingAlteration
6.	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr) **§ 140.1**

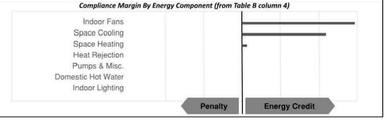
BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	3.87	3.11	0.76	19.6%
Space Cooling	164.38	150.11	14.27	8.7%
Indoor Fans	138.63	119.39	19.24	13.9%
Heat Rejection	--	--	--	--
Pumps & Misc.	--	--	--	--
Domestic Hot Water	4.49	4.49	--	0.0%
Indoor Lighting	90.12	90.12	--	0.0%
COMPLIANCE TOTAL	**401.49**	**367.22**	**34.27**	**8.5%**
Receptacle	95.56	95.56	0.0	0.0%
Process	--	--	--	--
Other Ltg	--	--	--	--
Process Motors	--	--	--	--
TOTAL	**497.05**	**462.78**	**34.3**	**6.9%**

C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Indoor Fans: Check envelope and mechanical
2nd	Space Cooling: Check envelope and mechanical
3rd	Space Heating: Check envelope and mechanical
4th	Heat Rejection: Check envelope and mechanical
5th	Pumps & Misc.: Check mechanical
6th	Domestic Hot Water: Check mechanical
7th	Indoor Lighting: Check lighting

Compliance Margin By Energy Component (from Table B column 4)



D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

E. HERS VERIFICATION

Duct leakage verification has been selected. See Table P - System Distribution Summary

F. ADDITIONAL REMARKS

None Provided

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA"= not in project

For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path	Compliance Forms *(required for submittal)*	Location of Mandatory Notes on Plans
Envelope	☒ Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐ NA		
Mechanical	☒ Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐ NA		
Domestic Hot Water	☐ Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☒ Prescriptive	NRCC-PLB-01-E	
	☐ NA		
Lighting (Indoor Conditioned)	☐ Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☒ NA		
Covered Process: Commercial Kitchens	☐ Performance	S2 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 03-E	
	☒ NA		
Covered Process: Computer Rooms	☐ Performance	S3 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 04-E	
	☒ NA		
Covered Process: Laboratory Exhaust	☐ Performance	S4 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 09-E	
	☒ NA		

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.

The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.

Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Forms
☐	☒	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	☐ ☐	☒ ☒	Commissioning: §120.8 Simple Systems Complex Systems	NRCC-CXR-01 / 02 / 03 /05-E NRCC-CXR-01 / 02 / 04 / 05-E
☐	☒	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E	☐	☒	Electrical: §130.5	NRCC-ELC-01-E
☐	☒	Lighting (Sign) §140.8	NRCC-LTS-01-E	☐	☒	Solar Ready: §110.10	NRCC-SRA-01 / 02-E
☐	☒	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E	☐ ☐ ☐ ☐ ☐	☒ ☒ ☒ ☒ ☒	Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) – Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Envelope	☒ NRCI-ENV-01-E - For all buildings	☐	☐
	☒ NRCA-ENV-02-F- NFRC label verification for fenestration	☐	☐
Mechanical	☒ NRCI-MCH-01-E - For all buildings with Mechanical Systems	☐	☐
	☒ NRCA-MCH-02-A- Outdoor Air	☐	☐
	☒ NRCA-MCH-03-A – Constant Volume Single Zone HVAC	☐	☐
	☒ NRCA-MCH-04-H- Air Distribution Duct Leakage	☐	☐
	☒ NRCA-MCH-05-A- Air Economizer Controls	☐	☐
	☒ NRCA-MCH-06-A- Demand Control Ventilation	☐	☐
	☐ NRCA-MCH-07-A – Supply Fan Variable Flow Controls	☐	☐
	☐ NRCA-MCH-08-A- Valve Leakage Test	☐	☐
	☐ NRCA-MCH-09-A – Supply Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-10-A- Hydronic System Variable Flow Controls	☐	☐
	☐ NRCA-MCH-11-A – Auto Demand Shed Controls	☐	☐
	☒ NRCA-MCH-12-A- Packaged Direct Expansion Units	☐	☐
	☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A- Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A – Thermal Energy Storage	☐	☐
	☐ NRCA-MCH-16-A- Supply Air Temp Reset Controls	☐	☐
	☐ NRCA-MCH-17-A – Condensate Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-18-A- Energy Management Controls Systems	☐	☐
	☒ NRCV-MCH-04-H- Duct Leakage Test	☐	☐

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Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Plumbing	☐ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☐ NRCI-LTI-01-E - For all buildings	☐	☐
	☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☐ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☒ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☐ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) – Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed Pass	Confirmed Fail
Covered Process	☐ NRCI-PRC-01-E Covered Processes	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

						Confirmed Pass	Confirmed Fail
1.	Total Conditioned Floor Area	3,364 ft²	5.	Number of Floors Above Grade	1		
2.	Total Unconditioned Floor Area	0 ft²	6.	Number of Floors Below Grade	0		
3.	Addition Conditioned Floor Area	0 ft²					
4.	Addition Unconditioned Floor Area	0 ft²					

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	1,511 ft²	423 ft²	28.0%	☐	☐
East Wall	320 ft²	0 ft²	00.0%	☐	☐
South Wall	1,511 ft²	693 ft²	45.9%	☐	☐
West Wall	0 ft²	0 ft²	00.0%	☐	☐
Total:	**3,342 ft²**	**1,116 ft²**	**33.4%**	☐	☐
Roof	3,364 ft²	0 ft²	00.0%	☐	☐

J. FENESTRATION ASSEMBLY SUMMARY **§ 110.6** **Confirmed**

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method[1]	4. Assembly Method	5. Area ft²	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. Status[2]	Pass	Fail
Oldcastle Glass w/thermal Break	VerticalFenestration CurtainWall MetalFramingWithThermalBreak	COG Equations	SiteBuilt	808	0.35 (COG)	0.40 (COG)	0.61 (COG)	N	☐	☐
Amarr 3552 Roll-up Door	VerticalFenestration CurtainWall N/A	NFRC Rated	Manufactured	308	0.57	0.61	0.81	N	☐	☐

[1] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*

[2] *Status: N - New, A – Altered, E – Existing*

Taking compliance credit for fenestration shading devices? (if "Yes", see NRCC-PRF-ENV-DETAILS for more information)	No

K. OPAQUE SURFACE ASSEMBLY SUMMARY **§ 120.7/ § 140.3** **Confirmed**

1. Surface Name	2. Surface Type	3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. U-Factor / F-Factor / C-Factor	8. Status[1]	Pass	Fail
R-38 Roof No Attic4	Roof	3116	Wood	38	NA	U-Factor: 0.029	A	☐	☐
R-19 Wall6	ExteriorWall	3342	Wood	19	NA	U-Factor: 0.072	E	☐	☐
Slab On Grade25	UndergroundFloor	3366	NA	0	NA	F-Factor: 0.730	E	☐	☐
R-19 Roof Attic51	Roof	248	Wood	19	NA	U-Factor: 0.052	E	☐	☐

[1] *Status: N - New, A – Altered, E – Existing*

L. ROOFING PRODUCT SUMMARY **§ 140.3** **Confirmed**

1. Product Type	2. Product Density (lb/ft²)	3. Aged Solar Reflectance	4. Thermal Emittance	5. SRI	6. Cool Roof Credit	7. Roofing Product Description	Pass	Fail
R-38 Roof No Attic4	5.813	0.08	0.75	NA	No	NA	☐	☐
R-19 Roof Attic51	5.813	0.08	0.75	NA	No	NA	☐	☐

M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) **§ 110.1 / § 110.2**

Dry System Equipment [1] (Fan & Economizer info included below in Table N) — Confirmed

1. Equip Name	2. Equip Type	3. System Type (Simple [2] or Complex [3])	4. Qty	5. Total Heating Output (kBtu/h)	6. Supp Heat Source (Y/N)	7. Supp Heat Output (kBtuh)	8. Total Cooling Output (kBtu/h)	9. Efficiency Cooling	9. Efficiency Heating	10. Acceptance Testing Required? (Y/N) [4]	11. Status[5]	Pass	Fail
AC-6	SZAC (Packaged3Phase)	Simple	1	120	No	0	140	EER-12.4	AFUE-80.0	Yes	N	☐	☐
AC-4	SZAC (Packaged3Phase)	Simple	1	103	No	0	94	EER-13.2	AFUE-80.0	Yes	N	☐	☐
HP-1	SZHP (Split1Phase)	Simple	1	29	No	0	28	SEER-23.800 / EER-12.500	HSPF-10.000	Yes	N	☐	☐

[1] *Dry System Equipment includes furnaces, air handling units, heat pumps, etc.*

[2] *Simple Systems must complete NRCC-CXR-03-E commissioning design review form*

[3] *Complex Systems must complete NRCC-CXR-04-E commissioning design review form*

[4] *A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS*

[5] *Status: N - New, A – Altered, E – Existing*

Wet System Equipment Section Does Not Apply

Discrepancy between modeled and designed equipment sizing? (if "Yes", see Table F. "Additional Remarks" for an explanation)	No

N. ECONOMIZER & FAN SYSTEMS SUMMARY[1] **§ 140.4** **Confirmed**

1. Equip Name	2. Outside Air CFM	3. Supply Fan CFM	3. Supply Fan HP	3. Supply Fan BHP	3. Supply Fan TSP (inch WC)	3. Supply Fan Control	4. Return Fan CFM	4. Return Fan HP	4. Return Fan BHP	4. Return Fan TSP (inch WC)	4. Return Fan Control	5. Economizer Type (if present)	Pass	Fail
AC-6	934	4375	2.000	2.000	1.74	ConstantVolume	NA	NA	NA	NA	NA	DifferentialDryBulb	☐	☐
AC-4	555	3400	1.490	1.490	1.67	ConstantVolume	NA	NA	NA	NA	NA	DifferentialDryBulb	☐	☐
HP-1	58	1000	0.130	0.130	0.41	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐

[1] *Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section*

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BAKERSFIELD CITY SCHOOL DISTRICT — Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:

PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	11/21/2019

SHEET TITLE

MECHANICAL TITLE 24 BUILDING H

SHEET NUMBER

PHASE III

M4005

DSA SUBMITTAL SET

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O. EQUIPMENT CONTROLS — § 120.2 — Confirmed

1. Equip Name	2. Equip Type	3. Controls	Pass	Fail
AC-6	SZAC	1 Zones With CO2Sensor Vent. Control Differential Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
AC-4	SZAC	1 Zones With CO2Sensor Vent. Control Differential Drybulb Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐
HP-1	SZHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery	☐	☐

P. SYSTEM DISTRIBUTION SUMMARY — § 120.4/ § 140.4(l)

		Dry System Distribution					Confirmed	
1. Equip Name	2. Equip Type	3. Duct Leakage and Sealing Required per 140.4(l)	4. Duct Leakage will be verified per NA1 and NA2	5. Ducts: Insulation R-Value	5. Ducts: Location	6. Status[1]	Pass	Fail
AC-6	SZAC	No	Yes	8.0	Unconditioned	N	☐	☐
AC-4	SZAC	No	Yes	8.0	Unconditioned	N	☐	☐
HP-1	SZHP	No	No	8.0	Unconditioned	N	☐	☐

[1] Status: N - New, E – Existing

Does the Project Include Zonal Systems? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Does the Project Include a Solar Hot Water System? (if "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Multifamily or Hotel/ Motel Occupancy? (if "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)	No

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info)[3] — § 140.6 — Confirmed

1. Occupancy Type [1]	2. Conditioned Floor Area [2] (ft²)	3. Installed Lighting Power (Watts)	4. Lighting Control Credits (Watts)	5. Additional (Custom) Allowance: Area Category Footnotes (Watts)	5. Additional (Custom) Allowance: Tailored Method (Watts)	Pass	Fail
Convention, Conference, Multipurpose and Meeting Center Areas	2,978	3,574	0	0	0	☐	☐
Office (Greater than 250 square feet in floor area)	386	290	0	0	0	☐	☐
Building Totals:	**3,364**	**3,864**	**0**	**0**	**0**		

[1] See Table 140.6-C
[2] See NRCC-LTI-01-E for unconditioned spaces
[3] Lighting information for existing spaces modeled is not included in the table

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)[1] — § 130.0

This Section Does Not Apply

[1] If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES — § 140.9

This Section Does Not Apply

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS — § 140.9

This Section Does Not Apply

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS — § 140.9

This Section Does Not Apply

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS — § 140.9

This Section Does Not Apply

T. UNMET LOAD HOURS

This Section Does Not Apply

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	0.3	--	7.6	3.2	4.4
Space Cooling	14.1	12.8	1.3	--	--	--
Indoor Fans	20.6	17.6	3.0	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	10.6	10.6	0.0
Indoor Lighting	12.9	12.9	0.0	--	--	--
COMPLIANCE TOTAL	**47.6**	**43.6**	**4.0**	**18.2**	**13.8**	**4.4**
Receptacle	13.7	13.7	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**61.3**	**57.3**	**4.0**	**18.2**	**13.8**	**4.4**

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT — § 10-103

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Mike Mundschau P.E.	Signature:
Company: Baskin Mechanical Engineers	
Address: 5500 Ming Ave., Suite 251	Signature Date: 11/12/19
City/State/Zip: Bakersfield California 93309	CEA Identification (if applicable):
Phone: (661)397-2114	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name: Rick Mello	**Signature:**	
Company: IBI Architecture Planning		
Address: 4119 Broad Street, Suite 210	Date Signed:	
City/State/Zip: San Luis Obispo California 93401	Declaration Statement Type:	
Phone: (805) 5460433	Title:	License #: C18079
Responsible Lighting Designer Name:	**Signature: NOT IN SCOPE**	
Company:		
Address:	Date Signed:	
City/State/Zip:	Declaration Statement Type:	
Phone:	Title:	License #:
Responsible Mechanical Designer Name: Mark Baskin	**Signature:**	
Company: Baskin Mechanical Engineers		
Address: 5500 Ming Avenue, Suite 251	Date Signed: 11/12/19	
City/State/Zip: Bakersfield California 93309	Declaration Statement Type:	
Phone: (661)397-2114	Title:	License #: M26578

NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS — Confirmed

1. Surface Name	2. Surface Type	3. Description of Assembly Layers	4. Notes	Pass	Fail
R-38 Roof No Attic4	Roof	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 16in. OC, 11.25in., R-38 Gypsum Board - 1/2 in.		☐	☐
R-19 Wall6	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.		☐	☐
Slab On Grade25	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0		☐	☐
R-19 Roof Attic51	Roof	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 3.5in., R-19 Gypsum Board - 1/2 in.		☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

This Section Does Not Apply

C. OPAQUE DOOR SUMMARY — Confirmed

1. Opaque Door Assembly Name / Tag or I.D.	2. Door Type	3. Certification Method	4. Operation	5. Area	6. Overall U-factor	7. Status[1]	Pass	Fail
Metal Door13	MetalUninsulatedSingleLayerDoor	DefaultPerformance	Swinging	187	1.450	A	☐	☐

[1] Status: N - New, A – Altered, E – Existing

NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2016-NRCC-MCH-03-E)* — Confirmed

CONDITIONED ZONE NAME	1. DESIGN AIR FLOWS: HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DOC CONTROLS (Y/N)	2. VENTILATION (§ 120.1): VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN NUM. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQ'D VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIR FLOW (CFM)	DCV (Y/N)	Operable Window Interlock§ 140.4(o) (Y/N)	Pass	Fail
1-Multi-Purpose	AC-6	4,375	NA	0.00	NA	NA	N	AC-6	1,868	0.50	62.27	15.00	934	934	NA	Y	NA	☐	☐
2-Multi-Purpose	AC-4	3,400	NA	0.00	NA	NA	N	AC-4	1,110	0.50	37.00	15.00	555	555	NA	Y	NA	☐	☐
3-Undefined Zone	HP-1	1,000	NA	0.00	NA	NA	N	HP-1	386	0.15	1.93	30.00	58	58	NA	N	NA	☐	☐
								TOTAL	3,364		101.20		1,547	1,547	NA			☐	☐

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY — § 140.4 — Confirmed

1. System ID	2. System Type	3. Qty	4. Rated Capacity (kBtuh): Heating	4. Rated Capacity (kBtuh): Cooling	5. Economizer	6. Zone Name	7. Airflow (cfm): Design	7. Airflow (cfm): Min.	7. Airflow (cfm): Min. Ratio	8. Fan: BHP	8. Fan: Cycles	8. Fan: ECM Motor	Pass	Fail
1-Multi-Purpose-Trm	Uncontrolled	1	NA	NA	NA	1-Multi-Purpose	4375	NA	0.00	NA	NA	☐	☐	☐
2-Multi-Purpose-Trm	Uncontrolled	1	NA	NA	NA	2-Multi-Purpose	3400	NA	0.00	NA	NA	☐	☐	☐
3-Undefined Zone-Trm	Uncontrolled	1	NA	NA	NA	3-Undefined Zone	1000	NA	0.00	NA	NA	☐	☐	☐

C. EXHAUST FAN SUMMARY

This Section Does Not Apply

D. DHW EQUIPMENT SUMMARY – *(Adapted from NRCC-PLB-01)*

This Section Does Not Apply

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* — § RA4

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description: Equipment Requiring Testing or Verification	# of units	MCH-02A Outdoor Air	MCH-03A Single Zone Unitary	MCH-04A Air Dist. Ducts	MCH-05A Economizer Controls	MCH-06A DCV	MCH-07A Supply Fan VAV	MCH-08A Valve leakage	MCH-09A Supply Water Temp. Reset	MCH-10A Hyd Variable Flow Control	MCH-11A Auto Demand Shed Control	MCH-12A FDD for DX Units	MCH-13A Auto FDD for Air & Zone	MCH-14A Dist. Energy Storage DX AC	MCH-15A TES Systems	MCH-16A Supply Air Temp. Reset	MCH-17A Condenser Water Reset Controls	MCH-18A ECMS	Confirmed: Pass	Fail
AC-6	1	X	X	X	X	X	--	--	--	--	--	X	--	--	--	--	--	--	☐	☐
AC-4	1	X	X	X	X	X	--	--	--	--	--	X	--	--	--	--	--	--	☐	☐
HP-1	1	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) — § 140.6

This Section Does Not Apply

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) — § 130.1

This Section Does Not Apply

§130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) — § 140.6

General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) — § 140.6-D

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) — § 140.6(c) 3H

Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed: Pass	Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Note: Tailored Method for Special Function Areas is not currently implemented

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

Rectangular Spaces: Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Confirmed: Pass	Fail
NA	NA	NA	NA	NA	NA	☐	☐

Non-Rectangular Spaces

This Section Does Not Apply

Note: All applicable spaces are listed under the Non-Rectangular Spaces table

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)

1. Wall Display	2. Combined Floor Display and Task Lighting	3. Combined Ornamental and Special Effects Lighting	4. Very Valuable Merchandise	Allowed Watts	Confirmed: Pass	Fail
0	0	0	0	**0**	☐	☐

5. Wall Display

This Section Does Not Apply

6. Floor Display and Task Lighting

This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting

This Section Does Not Apply

8. Very Valuable Merchandise

This Section Does Not Apply

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E) — § 130.4

Declaration of Required Acceptance Certificates (NRCA) –Acceptance Certificates that must be verified in the field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description: Equipment Requiring Testing or Verification	# of units	Indoor: NRCA-LTI-02-A Occ Sensors / Auto Time Switch	Indoor: NRCA-LTI-03-A Auto Daylight	Indoor: NRCA-LTI-04-A Demand Responsive	Outdoor: NRCA-LTO-02-A Outdoor Controls	Confirmed: Pass	Fail
Occupant Sensors	0	☐	☐	☐	☐	☐	☐
Automatic Time Switch	0	☐	☐	☐	☐	☐	☐
Automatic Daylighting	0	☐	☒	☐	☐	☐	☐
Demand Responsive	0	☐	☐	☐	☐	☐	☐
Outdoor Controls	0	☐	☐	☐	☐	☐	☐

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REVISIONS

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815 EUREKA ST, BAKERSFIELD, CA 93305

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MECHANICAL TITLE 24 BUILDING H

SHEET NUMBER

PHASE III

M4006

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ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL — ENV-MM

Project Name	Date
Bessie Owens Junior High Modernization Bldg H	*9/13/2019*

DESCRIPTION

Building Envelope Measures:

§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.
§110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.
§110.8(g):	Heated slab floors shall be insulated according to the requirements in Table 110.8-A.
§110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.
§110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft.² of window area, 0.3 cfm/ft.² of door area for residential doors, 0.3 cfm/ft.² of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft.² for nonresidential double doors (swinging).
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.
§110.6(a) :	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).
§120.7(a):	The opaque portions of the roof/ceiling that separates conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows: **Metal Building-** The weighted average U-factor of the roof assembly shall not exceed 0.098. **Wood Framed and Others-** The weighted average U-factor of the roof assembly shall not exceed 0.075.
§120.7(b):	The opaque portions of walls that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor as follows: **Metal Building-** The weighted average U-factor of the wall assembly shall not exceed 0.113. **Metal Framed-** The weighted average U-factor of the wall assembly shall not exceed 0.151. **Light Mass Walls-** A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.440. **Heavy Mass Walls-** An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.690. **Wood Framed and Others-** The weighted average U-factor of the wall assembly shall not exceed 0.110. **Spandrel Panels and Opaque Curtain Wall-** The weighted average U-factor of the spandrel panels and opaque curtain wall assembly shall not exceed 0.280. **Demising Walls-**. The opaque portions of framed demising walls shall meet the requirements of Item A or B below: A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.099. B. Metal Framed walls shall be insulated to meet a U-factor not greater than 0.151.
§120.7(c):	The opaque portions of floors and soffits that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows: **Raised Mass Floors-** Shall have a minimum of 3 inches of lightweight concrete over a metal deck or the weighted average U-factor of the floor assembly shall not exceed 0.269. **Other Floors-**The weighted average U-factor of the floor assembly shall not exceed 0.071.

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PHASE III

M4007

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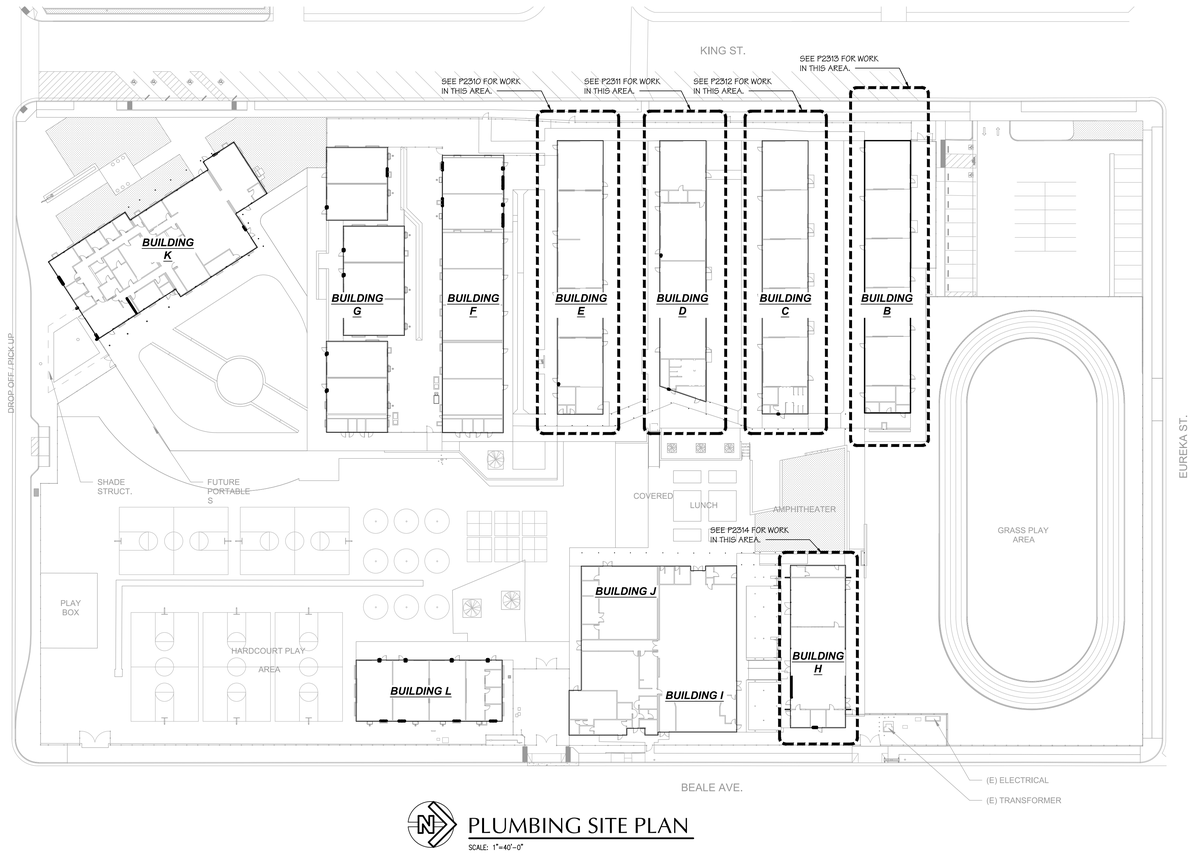

PLUMBING SITE PLAN

SCALE: 1"=40'-0"

Equipment Anchorage Notes:

All Mechanical, Plumbing, and Electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2016 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10 Chapter 13, 26 and 30.

1. All permanent equipment and components.
2. Temporary or movable equipment that is permanently attached (E.G. hard wired) to the building utility services such as electricity, gas or water.
3. Moveable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds or has a center mass located 4 feet or more above the adjacent floor or roof level that directly support the component are required to be anchored with temporary attachments.

The following Mechanical and Electrical components shall be positively attached to the structure, but the attachment need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping and conduit.

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note:

Piping, ductwork, and Electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8, and 2016 CBC, Sections 1616A.1.23, 1616A.1.24, 1616A.1.25 and 1616A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a pre-approved installation guide (e.g., SMACNA or OSHPD OPM), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP),
Electrical Distribution Systems (E):

MP ☐ MD ☐
PP ☐ E ☐ **Option 1:** Detailed on the approved drawings with project specific notes and details

MP ☐ MD ☐
PP ☐ E ☐ **Option 2:** Shall comply with the applicable OSHPD Pre-Approval (OPM#) #_____.

MP ☐ MD ☐
PP ☑ **Option 3:** Shall comply with the SMACNA Seismic Restraint Manual, OSHPD Edition (2009), Including any addenda. Fasteners and other attachments not specifically identied in the SMACNA Seismic Restraint Manual, OSHPD Edition, are detailed on the approved drawings with project specific notes and details. the details shall account for the applicable Seismic Hazard Level AA and Connection Level 2 for the project and conditions

Codes:

California Code of Regulations (C.C.R)
Part 1 - 2016 California Standards Administrative Code, Title 24, C.C.R.
Part 2 - 2016 California Building Code (C.B.C.), Title 24, C.C.R. Volumes 1-3.
Part 3 - 2016 California Electrical Code, Title 24, C.C.R.
Part 4 - 2016 California Mechanical Code (C.M.C.), Title 24, C.C.R.
Part 5 - 2016 California Plumbing Code (C.P.C.), Title 24, C.C.R.
Part 6 - 2016 California Energy Code, Title 24, C.C.R.
Part 9 - 2016 California Fire Code, Title 24, C.C.R.

Standards and Guides:

ADASAD - American with Disabilities Act, Standards for Accessible Design.
Fixtures - Plumbing fixtures to comply with table 5.303.6 of the California Green Building Standards - 2016 Edition.

PLUMBING FIXTURE SCHEDULE

WC-1
Accessible, high efficiency floor mounted elongated water closet, "Kohler" #K-96057 Highcliff Floor mounted elongated water closet and "Zurn" #ZER6000PL-HET-CPM battery powered sensor flush-valve (1.28 gallons/flush), "Church" #295SSCT open-front white seat, bolt caps, 1" C.W., 4" S. & W., 2" V.O.,

WC-2
High efficiency floor mounted elongated water closet, "Kohler" K-96053, Wellcomme and "Zurn" #ZER6000PL-HET-CPM battery powered sensor flush-valve (1.28 gallons/flush),
"Church" #295SSCT open-front white seat, bolt caps, 1" C.W., 4" S. & W., 2" V.O., TP connection where shown on plans.

U-1
Wall mounted accessible urinal "Kohler" K-4904-ET Bardon and battery powered sensor (.125 GPF) flush-valve,
"Zurn" # ZER60003AV-ULF-CPM, see arch. drawings for height, 3/4" C.W., 2" W., 2" S. & W., C.O., 1-1/2" V.O., see detail for mounting on sheet E/P2310.

L-1
Accessible, wall hung enameled cast iron, "Kohler" #K-2812 (20" x 18") Hudson, with backsplash and wall bracket, provide secondary anchor lugs. "Chicago Faucet" #116.976.AB.1, 0.5 GPM vandal resistant aerator. McGuire 155WC offset grid drain, loose key compression angled wall stops with supply, 17 GA. C.P. p-trap/tailpiece with escutcheon, 1/2" C.W., 2" S. & W., 1- 1/2" V.O. & 2" W.C.O.

S-1
Accessible, Counter mounted 18 ga. stainless steel (25"x17"x5 ½") accessible single bowl sink with center drain outlet, "Elkay" # PSDKAD251755, # LK99 strainer, "Haws" #5510LF gooseneck faucet with lever handle and vandal resistant 0.5 GPM aerator, Haws #5054LF drinking bubbler, (2) loose key angled wall stops with supplies from each stop to bubbler and faucet, 17 gauge C.P. trap/tailpiece with escutcheon, wrap all exposed water and drain piping below sink with insulation wrap per specifications, 1/2" C.W., 2" S. & W., 1-1/2" V.O. & 2" W.C.O.

FD
Cast iron floor drain, "J.R. Smith: #2005 with 5" dia. bronze grate (see plans), 2" trap with primer connection, 2" S. & W., 1-1/2" V.O. (2" V.O. below slab if shown)

TP
Trap primer, "PPP" products in wall access panel with 1/2" C.W. in, manifold as required to multiple drains, see plan.

Use "Brasscraft" angle stops, copper faucet riser (one piece w/incert), Speedi-plumb plus braided connectors

PLUMBING LEGEND

SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	ACC.	ACCESIBLE	— —(E)C.D — —	(E)C.D	EXISTING CONDENSATE DRAIN		R.D.	ROOF DRAIN
	A.D.	ACCESS DOOR/WALL BOX		E.D.F.	ELECTRIC DRINKING FOUNTAIN		R.W.L.	RAINWATER LEADER
	A.F.F.	ABOVE FINISHED FLOOR		E.W.H.	ELECTRIC WATER HEATER		S.	SINK
— — A — —	A	COMPRESSED AIR (EXISTING)		EXT'G	EXISTING	SCR	SCR	STEAM CONDENSATE RETURN
A	A	COMPRESSED AIR (NEW)		EXPL.	EXPLOSIVE		S.&W.	SOIL AND WASTE
	C.D.	CONDENSATE DRAIN		F.C.O.	FLOOR CLEANOUT		SIM.	SIMILAR
	C.I.	CAST IRON		F.D.	FLOOR DRAIN		S.O.V.	SHUT OFF VALVE
	C.L.G.	CEILING		FLR.	FLOOR		SS	STAINLESS STEEL
C.O.	C.O.	CLEANOUT		F.S.	FLOOR SINK		S.S.	SERVICE SINK
	COMB.	COMBUSTION	— — G — —	G.	GAS	ST	ST	STEAM (EXISTING)
	CONN.	CONNECTION		G.D.	GARBAGE DISPOSAL	ST	ST	STEAM (NEW)
	CONT.	CONTINUATION		GRD.	GRADE		SURF.	SURFACE
COTG	COTG	CLEANOUT TO GRADE	G.W.	G.W.	GREASE WASTE		T.&P.	TEMPERATURE AND PRESSURE RELIEF
(D)C.W.	(D)C.W.	(DOMESTIC) COLD WATER		H.B.	HOSE BIBB		T.P.	TRAP PRIMER
	D.F.	DRINKING FOUNTAIN		H.V.(A-C)	AIR CONDITIONING EQPT.		(TYP)	TYPICAL
(D)H.W.	(D)H.W.	(DOMESTIC) HOT WATER		L.	LAVATORY		UR.	URINAL
(D)HWR	(D)HWR	(DOMESTIC) HOT WATER RETURN		LOC.	LOCATION		V.O.	VENT OFFSET
DI	DI	DEIONIZED WATER (EXISTING)	— — MA — —	MA	MEDICAL AIR (EXISTING)		V.T.R.	VENT THRU ROOF
DI	DI	DEIONIZED WATER (NEW)	MA	MA	MEDICAL AIR (NEW)		W.	WASTE
DN.	DN.	DOWN		(N)	NEW		W.C.	WATER CLOSET
DRN.	DRN.	DRAIN		N.I.C.	NOT IN CONTRACT		W.H.	WATER HEATER
(E).	(E).	EXISTING	— ⊣⊢ OR —⊣⊢—	P.O.C.	POINT OF CONNECTION		W.C.O.	WALL CLEANOUT
— —CW— —	(E)C.W.	EXISTING COLD WATER		PROV.	PROVIDE			
— —HW— —	(E)H.W.	EXISTING HOT WATER		P.R.V.	PRESSURE REDUCING VALVE			
— — —HWR— —	(E)H.W.R	EXISTING HOT WATER RETURN						

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ISSUE DATE:	11/21/2019

SHEET TITLE

PLUMBING SITE PLAN

SHEET NUMBER

PHASE III

P1100

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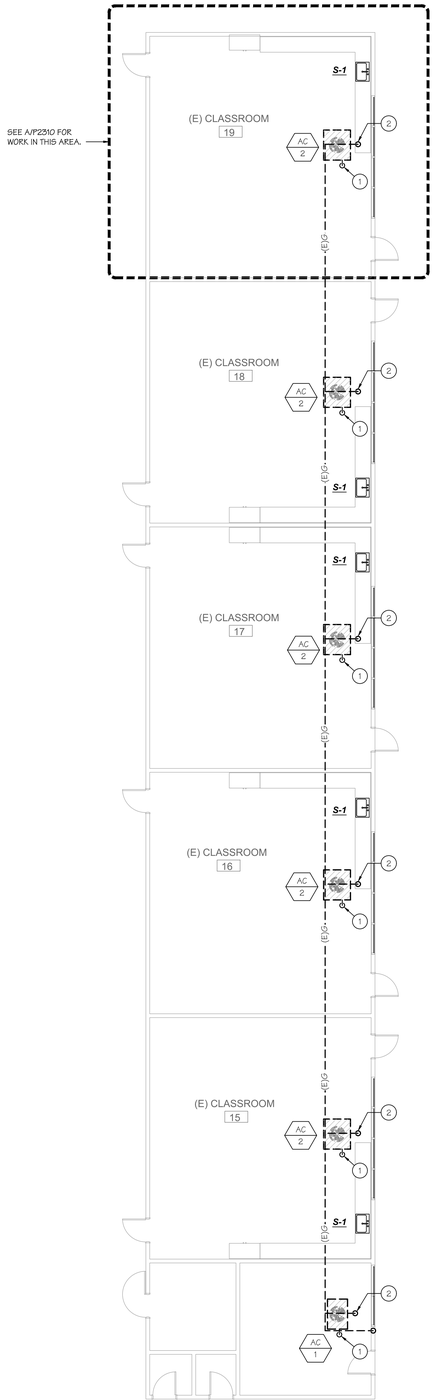
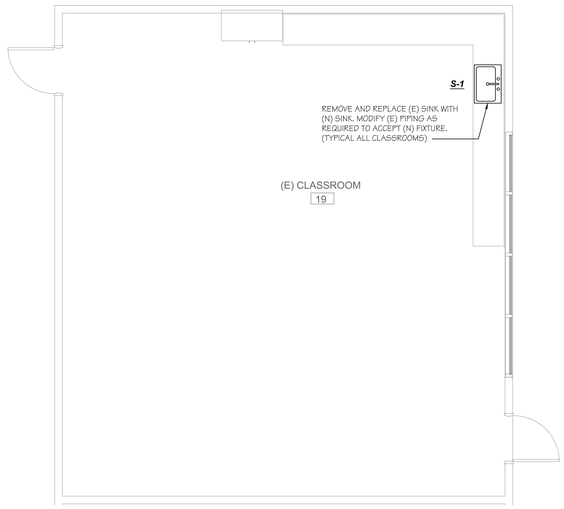


BLDG 'E' OVERALL PLUMBING PLAN

SCALE: 1/8"=1'-0"

PLUMBING KEYNOTES:

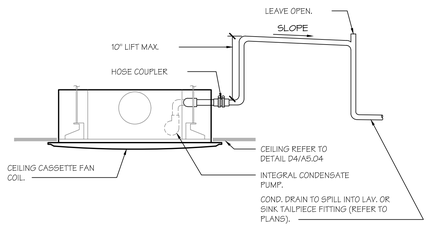
1. (N) PACKAGE UNIT IN (E) LOCATION, EXTEND (E) CONDENSATE DRAIN AS REQ'D TO RECONNECT TO (N) UNIT. SEE DETAIL B/P2310
2. (N) PACKAGE UNIT IN (E) LOCATION, EXTEND (E) GAS AS REQ'D TO RECONNECT TO (N) UNIT PROVIDE DIRT LEG & NEW PLUG VALVE.



BLDG 'E' PARTIAL PLUMBING PLAN

SCALE: 1/4"=1'-0"

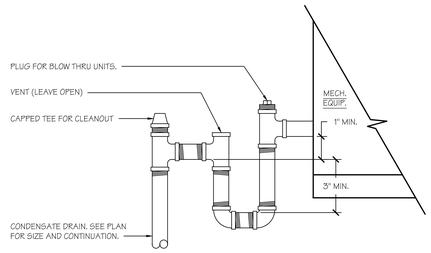
A



CONDENSATE DRAIN CONNECTION

SCALE: N.T.S.

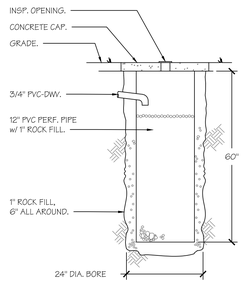
F



CONDENSATE DRAIN CONNECTION

SCALE: N.T.S.

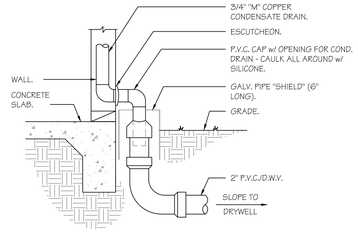
B



DRYWELL

SCALE: N.T.S.

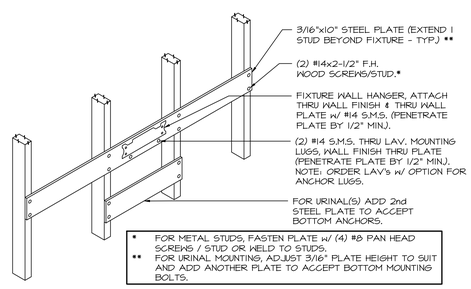
D



P.V.C. CONDENSATE DRAIN

SCALE: N.T.S.

C



* FOR METAL STUDS, FASTEN PLATE w/ (4) #8 PAN HEAD SCREWS / STUD OR WELD TO STUDS.
** FOR URINAL MOUNTING, ADJUST 3/16" PLATE HEIGHT TO SUIT AND ADD ANOTHER PLATE TO ACCEPT BOTTOM MOUNTING BOLTS.

LAV. MOUNTING (SIMILAR FOR URINAL)

SCALE: N.T.S.

E

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SHEET TITLE

PLUMBING PLAN - BUILDING 'E'

SHEET NUMBER

PHASE III

P2310

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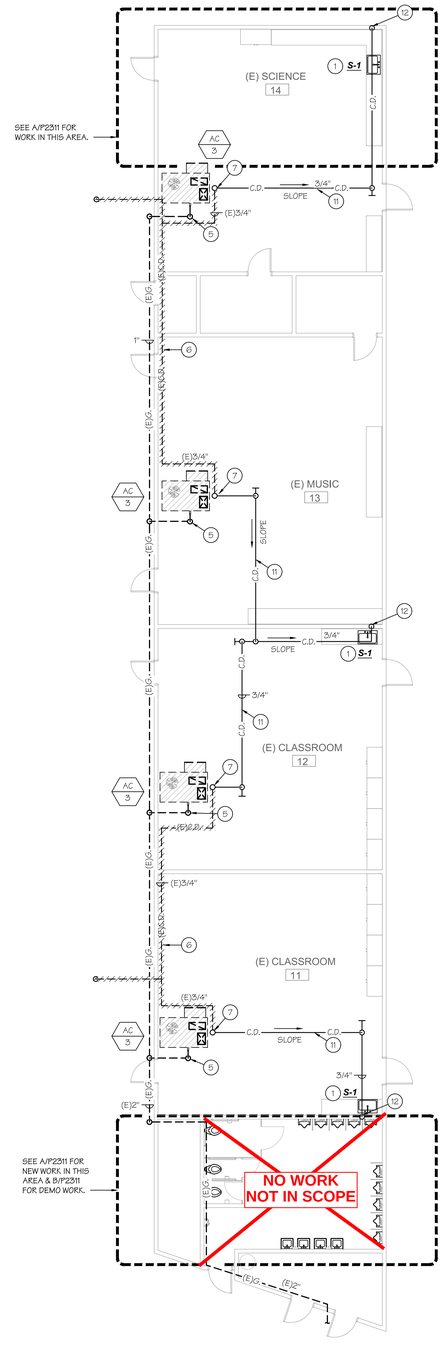
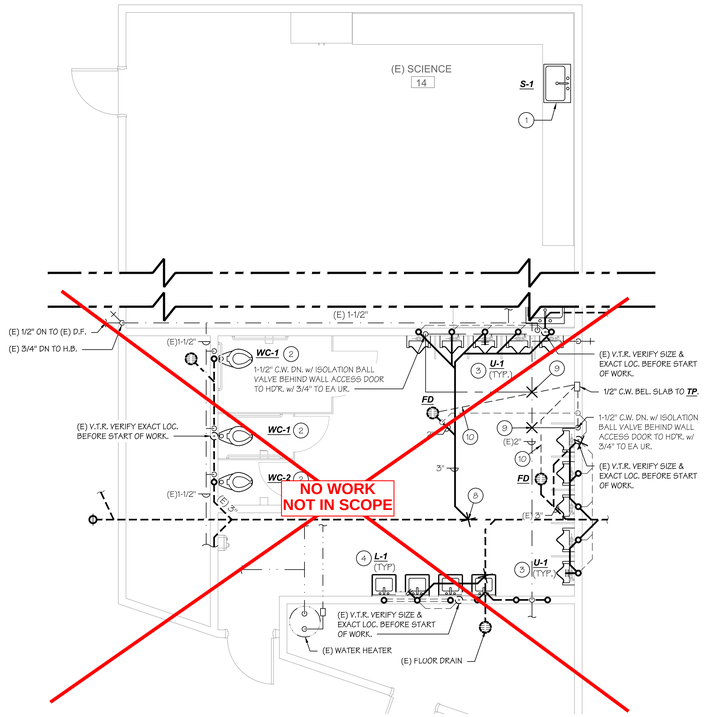


BLDG 'D' OVERALL PLUMBING PLAN

SCALE: 1/8"=1'-0"



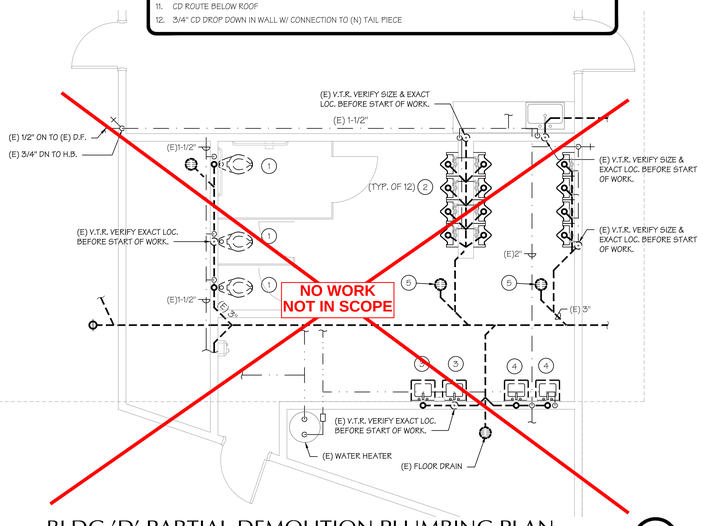
BLDG 'D' PARTIAL PLUMBING PLAN

A

SCALE: 1/4"=1'-0"

PLUMBING KEYNOTES:

1. REMOVE AND REPLACE (E) SINK WITH (N) SINK. MODIFY (E) PIPING AS REQUIRED TO ACCEPT (N) FIXTURE.
2. WC MODIFY (E) PIPING AS REQUIRED TO ACCEPT (N) FIXTURE. (TYP.)
3. WALL MOUNTED URINAL. MODIFY (E) C.W., S, V.O. AS REQUIRED TO ACCEPT (N) FIXTURE. SEE DETAIL E/P2311 (TYP.)
4. LAV. MODIFY EXTEND C.W., S, V.O. AS REQUIRED TO ACCEPT (N) FIXTURE. SEE DETAIL E/P2311 (TYP.)
5. (N) PACKAGE UNIT IN (E) LOCATION, EXTEND (E) GAS & PROVIDE CONNECTION TO UNIT W/DIRT LEG & NEW PLUG VALVE.
6. DEMO (E) C.D. ON ROOF.
7. 3/4" TYPE M COPPER C.D. SEE DETAIL B/P2310 DROP BELOW ROOF.
8. P.O.C. (N) 3" WASTE TO (E) 4" WASTE
9. P.O.C. (N) 1-1/2" C.W. TO (E) 2" C.W.
10. (N) 1/2" C.W. TO TP.
11. CD ROUTE BELOW ROOF
12. 3/4" CD DROP DOWN IN WALL W/ CONNECTION TO (N) TAIL PIECE



BLDG 'D' PARTIAL DEMOLITION PLUMBING PLAN

B

SCALE: 1/4"=1'-0"

PLUMBING DEMO KEYNOTES:

1. DEMO (E) WC MODIFY (E) PIPING AS REQUIRED TO ACCEPT (N) FIXTURE. (TYP.)
2. DEMO (E) FLOOR MOUNTED URINAL, CAP WASTE BEL. SLAB, CAP C.W. ABOVE CEILING (TYP.)
3. DEMO (E) LAV MODIFY (E) PIPING AS REQUIRED TO ACCEPT (N) FIXTURE. (TYP.)
4. DEMO (E) LAV, CAP WASTE, H.W., C.W. BEHIND WALL SURFACE.
5. DEMO (E) FLOOR DRAIN

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CHK'D BY:	Checker
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PLUMBING DEMOLITION & NEW WORK PLAN - BUILDING 'D'

SHEET NUMBER

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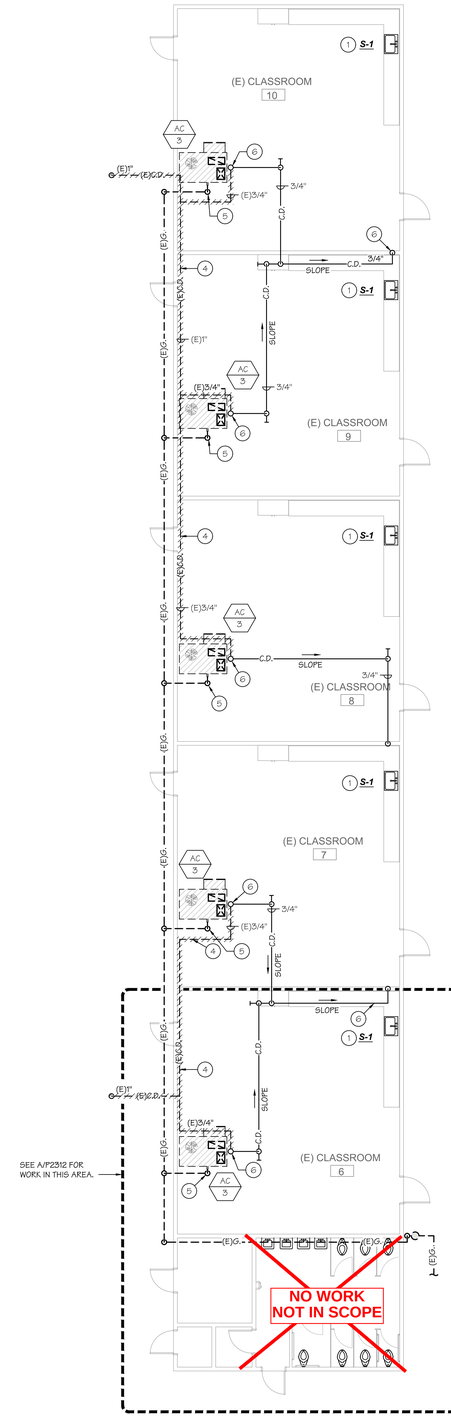
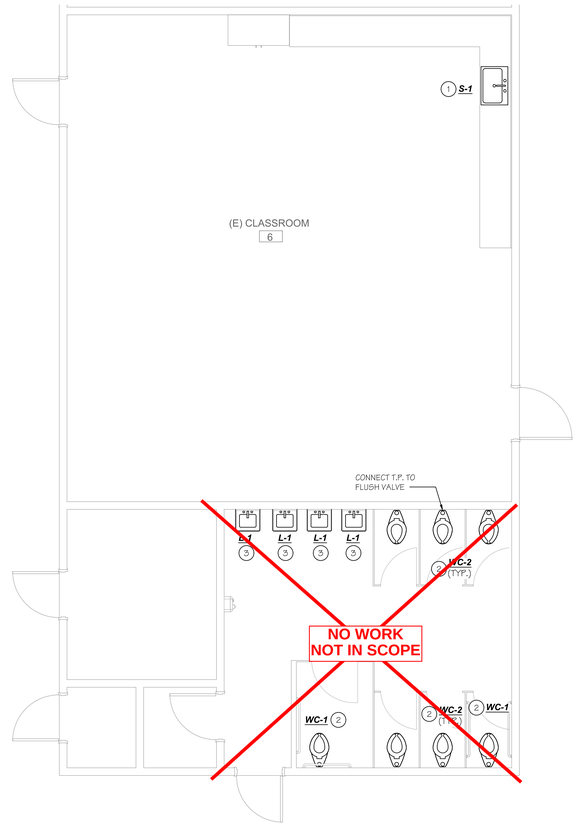


BLDG 'C' OVERALL PLUMBING PLAN

SCALE: 1/8"=1'-0"



BLDG 'C' PARTIAL PLUMBING PLAN — A

SCALE: 1/4"=1'-0"

PLUMBING KEYNOTES:

1. REMOVE AND REPLACE (E) SINK WITH (N) SINK. MODIFY (E) PIPING AS REQUIRED TO ACCEPT (N) FIXTURE.
2. REMOVE AND REPLACE (E) WC WITH (N) WC. MODIFY (E) PIPING AS REQUIRED TO ACCEPT (N) FIXTURE. (TYP.)
3. REMOVE AND REPLACE (E) LAV WITH (N) LAV. MODIFY (E) PIPING AS REQUIRED TO ACCEPT (N) FIXTURE. (TYP.)
4. DEMO (E) C.D. ON ROOF.
5. (N) PACKAGE UNIT IN (E) LOCATION, EXTEND (E) GAS. PROVIDE CONNECTION w/ (N) PLUG VALVE & DIRT LEG.
6. (N) 3/4" C.D. DROP BELOW ROOF & ROUTE AS SHOWN. TERMINATE AT SINK TAILPIECE. C.D. TO BE TYPE M COPPER. SEE DETAIL B/P23I0.

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PLUMBING PLAN - BUILDING 'C'

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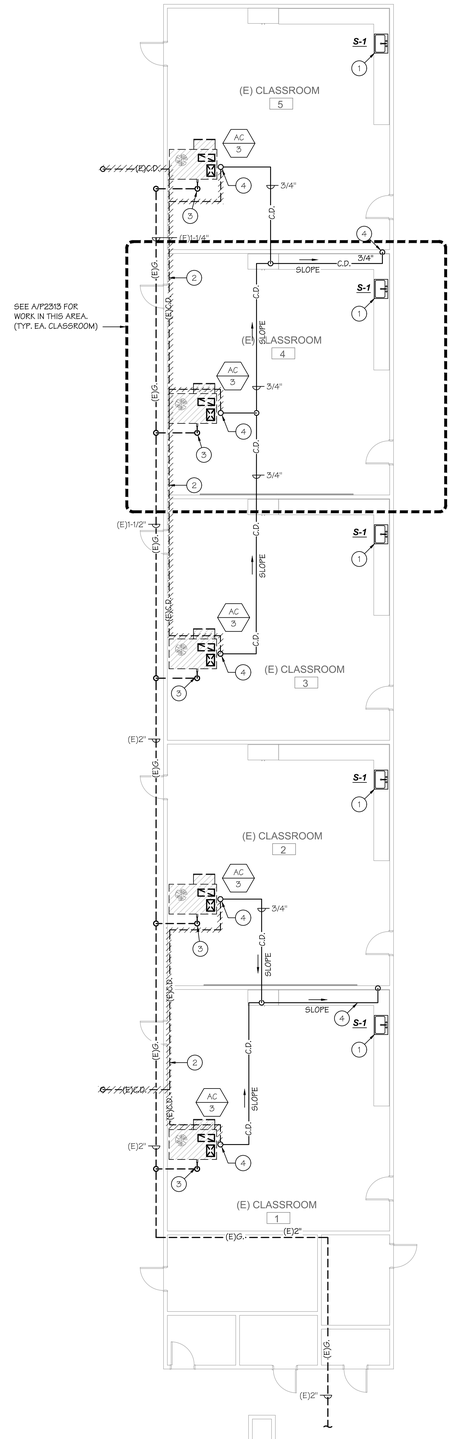
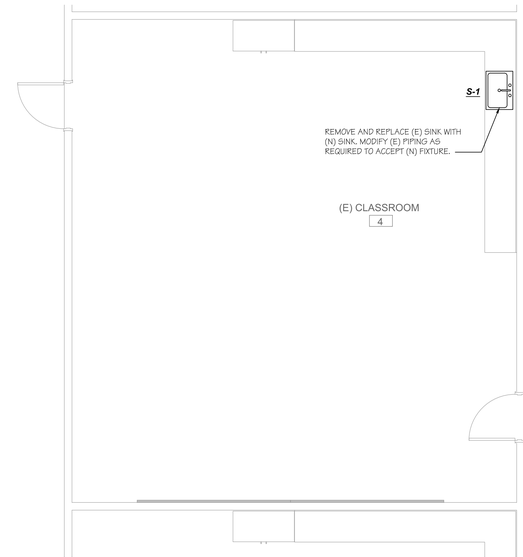


BLDG 'B' OVERALL PLUMBING PLAN

SCALE: 1/8"=1'-0"



BLDG 'B' PARTIAL PLUMBING PLAN

SCALE: 1/4"=1'-0"

A

PLUMBING KEYNOTES:

1. REMOVE AND REPLACE (E) SINK WITH (N) SINK. MODIFY (E) PIPING AS REQUIRED TO ACCEPT (N) FIXTURE.
2. DEMO (E) C.D. ON ROOF.
3. (N) PACKAGE UNIT IN (E) LOCATION, EXTEND (E) GAS. PROVIDE CONNECTION w/ (N) PLUG VALVE & DIRT LEG.
4. (N) 3/4" C.D. DROP BELOW ROOF & ROUTE AS SHOWN. TERMINATE AT SINK TAILPIECE. C.D. TO BE TYPE M COPPER. SEE DETAIL B/P2510.

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SHEET TITLE

PLUMBING PLAN - BUILDING 'B'

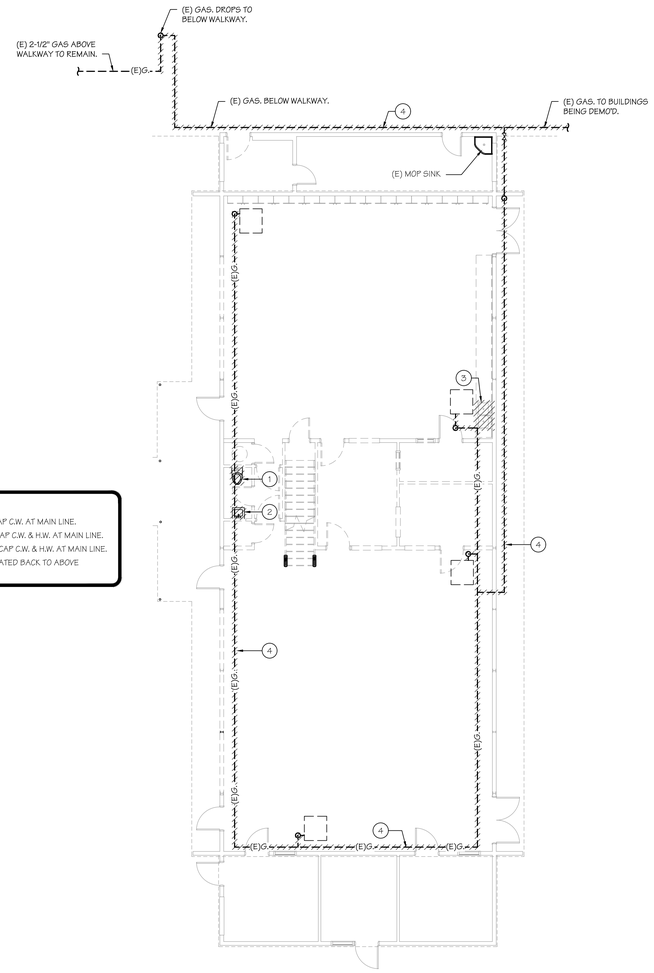
SHEET NUMBER

PHASE III

P2313

DSA SUBMITTAL SET

PLOT DATE: 2019-11-12 2:21:40 PM C:\Users\ruben.ruiz\Documents\ATY\-118934-BessieOwensHS_Site 06-26-19_r2018_ruben.ruiz.rvt

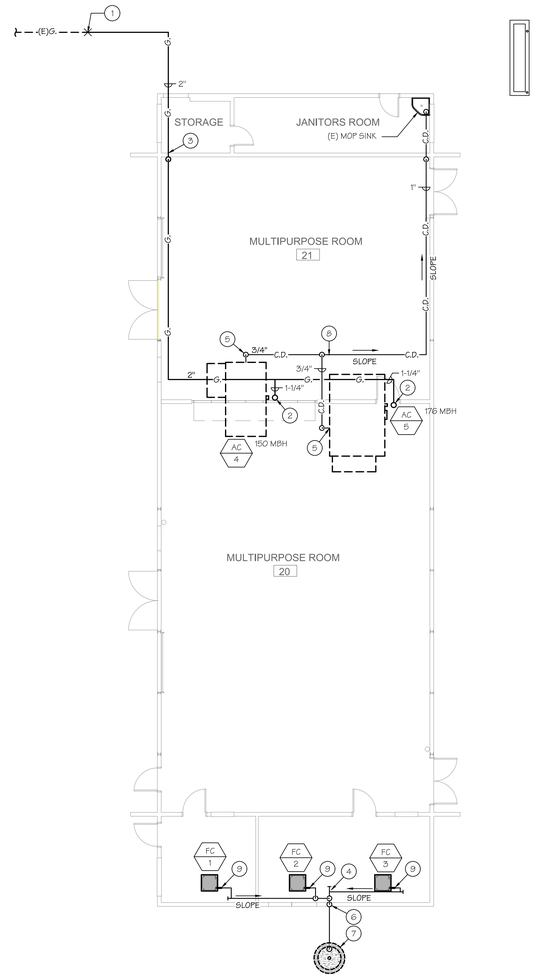


PLUMBING DEMOLITION KEYNOTES:

1. DEMO (E) WC CAP WASTE BELOW FLOOR SURFACE & CAP C.W. AT MAIN LINE.
2. DEMO (E) LAV, CAP WASTE BELOW FLOOR SURFACE & CAP C.W. & H.W. AT MAIN LINE.
3. DEMO (E) SINK, CAP WASTE BELOW FLOOR SURFACE & CAP C.W. & H.W. AT MAIN LINE.
4. DEMO (E) GAS LINE, HANGERS, & SUPPORTS AS INDICATED BACK TO ABOVE WALKWAY.

BLDG 'H' PLUMBING DEMOLITION PLAN

SCALE: 1/8"=1'-0"



PLUMBING KEYNOTES:

1. P.O.C. (N) 2" G. TO (E) 2-1/2" G. ABOVE WALKWAY.
2. 1-1/4" G. UP THRU ROOF. PROVIDE CONNECTION TO UNIT w/ PLUG VALVE & DIRT LEG.
3. 2-1/2" GAS ABOVE WALKWAY. PENETRATE WALL & RISE UP TO BELOW ROOF, ROUTE TIGHT TO STRUCTURE, CAULK & SEAL WALL PENETRATION.
4. ¾" TYPE "L" COPPER CONDENSATE ROUTE IN ATTIC & DOWN INSIDE WALL TO DRYWELL.
5. ¾" TYPE "L" COPPER CONDENSATE DRAIN, SEE DETAIL B/P2310.
6. SEE DETAIL C/P2310.
7. DRYWELL SEE DETAIL D/P2310.
8. ROUTE CD ABOVE DUCT WORK.
9. SEE F/P2310 FOR CONDENSATE DRAIN CONNECTION TO FAN COIL

7"-11" Gas Calc's (500'):

AC-4 PACKAGE UNIT 150 MBH = 136 C.F.H.
AC-5 PACKAGE UNIT 176 MBH = 160 C.F.H.
Total = 296 C.F.H.

296 C.F.H. @ 500' 2" Gas to start

BLDG 'H' PLUMBING PLAN

SCALE: 1/8"=1'-0"

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SEAL

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BAKERSFIELD CITY SCHOOL DISTRICT
"Where The Child Comes First"

BESSIE OWENS JUNIOR HIGH MODERNIZATION
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OPSC or OSHPD PROJ. NO:

PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	11/21/2019

SHEET TITLE

PLUMBING PLAN - BUILDING 'H'

SHEET NUMBER

PHASE III

P2314

DSA SUBMITTAL SET

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ABBREVIATIONS

A OR AMP	AMPERES	MCC	MOTOR CONTROL CENTER
AC	ALTERNATING CURRENT	MCM	THOUSAND CIRCULAR MILS
AF	AMP FRAME/AMP FUSE	MCP	MOTOR CIRCUIT PROTECTOR
AFC	AMPS FAULT CURRENT	MECH	MECHANICAL
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
AFF	ABOVE FINISHED FLOOR	MG	MOTOR-GENERATOR
AS	AMP SWITCH RATING	MH	MANHOLE
AT	AMP TRIP	MIN	MINIMUM
AFG	ABOVE FINISHED GRADE	MISC	MISCELLANEOUS
AUTO	AUTOMATIC	MTD	MOUNTED
AWG	AMERICAN WIRE GAUGE	MTG	MOUNTING
ATS	AUTOMATIC TRANSFER SWITCH	MTR	MOTOR
BC	BARE COPPER	(N)	NEW
BKR	BREAKER	NC	NORMALLY CLOSED
BLDG	BUILDING	NEC	NATIONAL ELECTRICAL CODE
C	CONDUIT	NF	NON FUSED
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CBC	CALIFORNIA BUILDING CODE	NO	NORMALLY OPEN
CKT	CIRCUIT	NON AUTO	NON AUTOMATIC
CLG	CEILING	N.T.S.	NOT TO SCALE
CO	CONDUIT ONLY	P	POLE
COMM	COMMUNICATION	PA	PUBLIC ADDRESS
CEC	CALIFORNIA ELECTRICAL CODE	PH OR #	PHASE
CFC	CALIFORNIA FIRE CODE	PNL	PANEL
DIA OR ø	DIAMETER	PRI	PRIMARY
DIAG	DIAGRAM	PVC	POLYVINYL CHLORIDE
DISC	DISCONNECT	PWR	POWER
DNS	DO NOT SWITCH	(R)	REMOVED
DWG	DRAWING	REQ	REQUIRED
FACP	FIRE ALARM CONTROL PANEL	RM	ROOM
FLA	FULL LOAD AMPS	RGS	RIGID GALVANIZED STEEL CONDUIT
		SCHED	SCHEDULE
GA	GAUGE	SPEC	SPECIFICATION
GC	GENERAL CONTRACTOR	SPECS	SPECIFICATION
GFI	GROUND FAULT INTERRUPTING	STD	STANDARD
GND	GROUND	UNSW	UNSWITCHED
HP	HORSEPOWER	TEL	TELEPHONE
HID	HIGH INTENSITY DISCHARGE	TR	TRANSFORMER
HZ	HERTZ	TYP	TYPICAL
IG	ISOLATED GROUND	UON	UNLESS OTHERWISE NOTED
JB	JUNCTION BOX	UG	UNDERGROUND
KV	KILOVOLT	V	VOLT
KVA	KILOVOLT-AMPERE	VA	VOLT-AMPERE
KW	KILOWATT	VD	VOLTAGE DROP
LCL	LONG CONTINUOUS LOAD	W	WATT
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT	W/	WITH
LTG	LIGHTING	WP	WEATHERPROOF
LTS	LIGHTS	(X)	EXISTING
MAG	MAGNET, MAGNETIC	1P	SINGLE POLE
MAX	MAXIMUM	2P	DOUBLE POLE
		3P	3 POLE
		AT	AT

U.I. STANDARD 486B TORQUING RECOMMENDATIONS

TIGHTENING TORQUE FOR SCREWS (a) TORQUE, POUND – INCHES

WIRE SIZE	SLOTTED HEAD NO. 10 AND LARGER (b)				HEXAGONAL HEAD/EXTERNAL DRIVE SOCKET WRENCH	
	SLOT WIDTH (IN.)		SLOT LENGTH (IN.)		SPLIT-BOLT CONNECTORS	OTHER CONNECTORS
	TO 3/64	OVER 3/64	TO 1/4	OVER 1/4		
18–10 AWG	20	35	20	35	80	75
8	25	40	25	40	80	75
6	35	45	35	45	165	110
4	–	45	–	45	165	110
3	–	50	–	50	275	150
2	–	50	–	50	275	150
1	–	50	–	50	275	150
1/0	–	50	–	50	385	180
2/0	–	50	–	50	385	180
3/0	–	50	–	50	500	250
4/0	–	50	–	50	500	250
250 kcmil	–	50	–	50	650	325
300	–	50	–	50	650	325
350	–	50	–	50	650	325
400	–	50	–	50	825	325
500	–	50	–	50	825	375
600	–	50	–	50	1000	375
700	–	50	–	50	1000	375
750	–	50	–	50	1000	375
800	–	50	–	50	1100	500
900	–	50	–	50	1100	500
1000	–	50	–	50	1100	500
1250	–	–	–	–	1100	600
1500	–	–	–	–	1100	600
1750	–	–	–	–	1100	600
2000	–	–	–	–	1100	600

THIS TABLE GIVES RECOMMENDED CONNECTOR INSTALLING TORQUES FOR COPPER AND ALUMINUM CONDUCTORS. THEY ARE FOR GUIDANCE ONLY WHERE NO TIGHTENING INFORMATION IS AVAILABLE AND SHOULD NOT BE USED TO REPLACE MANUFACTURER'S INSTRUCTIONS WHICH SHOULD ALWAYS BE FOLLOWED.

(a) CLAMPING SCREWS WITH MULTIPLE TIGHTENING MEANS; FOR EXAMPLE FOR A SLOTTED HEXAGONAL HEAD SCREW, USE THE HIGHEST TORQUE VALUE ASSOCIATED WITH THE DIFFERENT TIGHTENING MEANS.

(b) FOR VALUES OF SLOT WIDTH OR LENGTH OTHER THAN THOSE SPECIFIED, SELECT THE LARGEST TORQUE VALUE ASSOCIATED WITH CONDUCTOR SIZE.

CEC ART. 310 CONDUCTOR DERATING

NEC §310.15 (B)(2)(a) ADJUSTMENT FACTORS

(a) MORE THAN THREE CURRENT–CARRYING CONDUCTORS IN A RACEWAY OR CABLE. WHERE THE NUMBER OF CURRENT–CARRYING CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITIES SHALL BE REDUCED AS SHOWN IN THE FOLLOWING TABLE:

NUMBER OF CURRENT–CARRYING CONDUCTORS	PERCENT OF VALUES IN TABLES AS ADJUSTED FOR AMBIENT TEMPERATURE IF NECESSARY
4 THROUGH 6	80
7 THROUGH 9	70
10 THROUGH 20	50
21 THROUGH 30	45
31 THROUGH 40	40
41 AND ABOVE	35

WHERE SINGLE CONDUCTORS OR MULTICONDUCTOR CABLES ARE STACKED OR BUNDLED LONGER THAN 24 INCHES (610 mm) WITHOUT MAINTAINING SPACING AND ARE NOT INSTALLED IN RACEWAYS, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED AS SHOWN IN THE ABOVE TABLE.

EXCEPTION NO. 1: WHERE CONDUCTORS OF DIFFERENT SYSTEMS, AS PROVIDED IN SECTION 300–3, ARE INSTALLED IN A COMMON RACEWAY OR CABLE, THE DERATING FACTORS SHOWN ABOVE SHALL APPLY TO THE NUMBER OF POWER AND LIGHTING (ARTICLES 210, 215, 220, AND 230) CONDUCTORS ONLY.

EXCEPTION NO. 2: FOR CONDUCTORS INSTALLED IN CABLE TRAYS, THE PROVISIONS OF SECTION 392.11 SHALL APPLY.

EXCEPTION NO. 3: DERATING FACTORS SHALL NOT APPLY TO CONDUCTORS IN NIPPLES HAVING A LENGTH NOT EXCEEDING 24 INCHES (600mm).

EXCEPTION NO.4: DERATING FACTORS SHALL NOT APPLY TO UNDERGROUND CONDUCTORS ENTERING OR LEAVING AN OUTDOOR TRENCH IF THOSE CONDUCTORS HAVE PHYSICAL PROTECTION IN THE FORM OF RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, OR RIGID NONMETALLIC CONDUIT HAVING A LENGTH NOT EXCEEDING 10 FEET (3.05m) ABOVE GRADE AND THENUMBER OF CONDUCTORS DOES NOT EXCEED FOUR.

CEC WIRE FILL TABLE 370–16

JUNCTION BOX DIMENSION, INCHES TRADE SIZE OR TYPE	MIN. CU. IN. CAP.	MAXIMUM NUMBER OF CONDUCTORS				
		NO. 14	NO. 12	NO. 10	NO. 8	NO. 6
4 x1–1/4 ROUND OR OCTAGONAL	12.5	6	5	5	4	2
4 x1–1/2 ROUND OR OCTAGONAL	15.5	7	6	6	5	3
4 x2–1/8 ROUND OR OCTAGONAL	21.5	10	9	8	7	4
4 x1–1/4 SQUARE	18.0	9	8	7	6	3
4 X1–1/2 SQUARE	21.0	10	9	8	7	4
4 X2–1/8 SQUARE	30.3	15	13	12	10	6
4–11/16 x1–1/4 SQUARE	25.5	12	11	10	8	5
4–11/16 X1–1/2 SQUARE	29.5	14	13	11	9	5
4–11/16 X2–1/8 SQUARE	42.0	21	18	16	14	8
3 x2 x1–1/2 DEVICE	7.5	3	3	3	2	1
3 x2 x2 DEVICE	10.0	5	4	4	3	2
3 x2 x2–1/4 DEVICE	10.5	5	4	4	3	2
3 x2 x2–1/2 DEVICE	12.5	6	5	5	4	2
3 x2 x2–3/4 DEVICE	14.0	7	6	5	4	2
3 x2 x3–1/2 DEVICE	18.0	9	8	7	6	3
4 X2–1/8 X1–1/2 DEVICE	10.3	5	4	4	3	2
4 X2–1/8 X1–7/8 DEVICE	13.0	6	5	5	4	2
4 X2–1/8 X2–1/8 DEVICE	14.5	7	6	5	4	2
3–3/4 x2 x2–1/2 MASONRY BOX / GANG	14.0	7	8	5	4	2
3–3/4 X2 X3–1/2 MASONRY BOX / GANG	21.0	10	9	8	7	4
FS – MINIMUM INTERNAL DEPTH 1–3/4 SINGLE COVER / GANG	13.5	6	6	5	4	2
FD – MINIMUM INTERNAL DEPTH 2–3/8 SINGLE COVER / GANG	18.0	9	8	7	6	3
FS – MINIMUM INTERNAL DEPTH 1–3/4 MULTIPLE COVER / GANG	18.0	9	8	7	6	3
FD – MINIMUM INTERNAL DEPTH 2–3/8 MULTIPLE COVER / GANG	24.0	12	10	9	8	4

GENERAL ELECTRICAL NOTES

SCOPE:
THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL SYSTEMS AND EQUIPMENT.

PERMITS AND CHARGES:
OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION.

REGULATIONS AND CODES:
PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE, CALIFORNIA ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND MANUFACTURERS RECOMMENDATIONS.

VERIFYING EXISTING CONDITIONS:
BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING SITE. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE, NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST.

COORDINATION:
COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE VERIFIED.

SERVICE CONTINUITY:
UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME MAN–HOURS REQUIRED FOR COMPLETION.

AS BUILT:
PROVIDE RECORD DRAWINGS TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF FINAL RETENTION OF ALL MONIES.

MARK PROJECT RECORD DOCUMENTS DAILY TO INDICATE ALL CHANGES MADE IN THE FIELD.
A.) IN ADDITION TO GENERAL REQUIREMENTS OF PROJECT RECORD DRAWINGS, INDICATE ON DRAWINGS, CHANGES OF EQUIPMENT LOCATIONS AND RATINGS, TRIP SIZES, AND SETTINGS ON CIRCUIT BREAKERS, ALTERATIONS IN RACEWAY RUNS AND SIZES, CHANGES IN WIRE SIZES, CIRCUIT DESIGNATIONS, INSTALLATION DETAILS, ONE–LINE DIAGRAMS, CONTROL DIAGRAMS AND SCHEDULES.

USE GREEN TO INDICATE DELETIONS AND RED TO INDICATE ADDITIONS.
A.) USE THE SAME SYMBOLS AND FOLLOW THE SAME DRAFTING PROCEDURES USED ON THE CONTRACT DRAWINGS.

LOCATE UNDERGROUND CONDUIT STUBBED–OUT FOR FUTURE USE, UNDERGROUND FEEDER CONDUITS, AND FEEDER PULL BOX LOCATIONS USING BUILDING LINES BY INDICATING ON THE PROJECT RECORD DRAWINGS.

AT THE COMPLETION OF UNDERGROUND CONDUIT INSTALLATION, PROVIDE UNDERGROUND CONDUIT RECORD DOCUMENTS TO OWNER'S REPRESENTATIVE.

TWO COPIES, IN BINDER FORM, OF ALL TEST RESULTS AS REQUIRED BY THESE DOCUMENTS.

TWO COPIES OF LOCAL AND/OR STATE CODE ENFORCING AUTHORITIES FINAL INSPECTION CERTIFICATES.

FIRE ALARM SYSTEM RECORDS AND TESTING REPORTS AS OUTLINED IN NFPA 72, CHAPTER 10.

TWO COPIES, IN BINDER FORM, OF ELECTRICAL EQUIPMENT CUT SHEETS, MANUFACTURER'S INSTALLATION INSTRUCTIONS, WARRANTY CERTIFICATES, AND PRODUCT LITERATURE FOR ALL PRODUCTS UTILIZED ON PROJECT.

GUARANTEE:
CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR.

SHOP DRAWINGS:
SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OF OTHER ACCEPTABLE TESTING AGENCY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTAL.
SUBMIT SIX SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING ALL BREAKER MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT SWITCHES, RECEPTACLES, ETC.

CONTRACTOR BID:
CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO SUBSTITUTE ANY EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BID IN WRITING. ALL SUBSTITUTIONS SHALL BE REVIEWED BY THE ENGINEER IN WRITING. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS/HER OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF OTHER CONTRACTORS.

MATERIAL AND INSTALLATION:
ALL MATERIALS SHALL BE NEW AND LISTED BY UNDERWRITERS LABORATORY (U.L.).
ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP.

CONDUITS:
CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH UL–1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLED ON ALL COMMUNICATION, TELEPHONE & SPEAKER CONDUITS. PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO MC, BX, OR AC90 SHALL BE PERMITTED.

SWITCHES AND RECEPTACLES:
PROVIDE 20 AMP NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL BE RATED 120 AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5–20R. IN ALL OFFICES AND OFFICE AREAS, DEVICES SHALL BE DECORA TYPE WITH COLOR SELECTION BY CONTRACTOR/OWNERS REPRESENTATIVE.

FEEDERS AND BRANCH CIRCUITS IDENTIFICATION:
IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER–CURRENT DEVICE, LOAD END, AND IN PULL BOXES WITH E–Z CODE OR OTHER APPROVED WIRE MARKER.
IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER–CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF–STICKING MARKERS SUCH AS THOMAS & BETTS E–Z CODE FOR IDENTIFICATION OF CONDUCTORS. IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET.

CONDUCTORS:
DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. CONDUCTORS MUST BE MANUFACTURED WITHIN 6 MONTHS. PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PROVIDE STRANDED COPPER CONDUCTORS FOR ALL WIRING. USE CONDUCTORS WITH THHN/THWN 600 VOLTS INSULATION, UNLESS OTHERWISE NOTED.

PANELBOARDS:
DISTRIBUTION AND LIGHTING PANELBOARDS WITHIN PROJECT AREA SHALL BE OF THE COPPER BUS THREE PHASE, FOUR WIRE DISTRIBUTED PHASING TYPE. CIRCUITING SHALL BE ARRANGED TO PROVIDE, AS NEARLY AS POSSIBLE, AN EVENLY BALANCED LOAD ON ALL PHASES.
PANELBOARDS SHALL BE BOLT–ON CIRCUIT BREAKER TYPE. AVAILABLE FAULT CURRENT IS STATED ON PANELBOARD SCHEDULE. PROVIDE PANEL IDENTIFICATION NAMEPLATE (ENGRAVED ON –ADHESIVE 1/2" MINIMUM LETTERS) AND TYPEWRITTEN LIST OF CIRCUITS IN THE DIRECTORY FRAME.

STRUCTURAL SUPPORT:
EACH SECTION OF FLOOR MOUNTED SWITCHBOARD, DISTRIBUTION BOARD, MCC, ETC. SHALL BE BOLTED TO THE CONCRETE HOUSEKEEPING PAD USING (6) 3/4"–10 GRADE 2 BOLTS AND CONICAL WASHERS TORQUED TO 70LB–FT. PROVIDE MINIMUM 4000 PSI STRENGTH CONCRETE BELOW ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. TIE THE TOP OF ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT TO THE BUILDING STRUCTURE IN A SEISMICALLY APPROVED MANNER.

DEMOLITION:
NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS.

1.) ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY THE OWNER, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.

2.) ALL DEVICES, CIRCUIT CONDUCTORS, FEEDERS, ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED TO THE LAST ACTIVE DEVICE. ALL OVER–CURRENT PROTECTION AND DISCONNECT DEVICES NO LONGER UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE LABELED AS "SPARE". COORDINATE ALL OUTAGES WITH OWNER'S REPRESENTATIVE.

EXECUTION:
CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THE WORK UNDER THIS CONTRACT.

1.) EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

2.) DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES, AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC.

3.) ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS.

4.) EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEY AND IS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE.

5.) ALL WORK SHOWN IS NEW UNLESS SPECIFICALLY INDICATED AS EXISTING (X). ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES.

TELEPHONE SYSTEMS:
PROVIDE RACEWAYS, AND ALL MATERIAL INCLUDING PULLING CABLE IN EACH RACEWAY AS REQUIRED FOR THE TELEPHONE SYSTEM PER THE SERVING TELEPHONE COMPANY REQUIREMENTS.

GROUNDING AND BONDING:
FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES, CONTINUITY OF GROUNDING SHALL BE MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN GROUNDING CODE SIZED CONDUCTOR SHALL BE CARRIED THROUGH IN ALL CONDUITS.

INSTALLATION:
IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT, TOWARD THIS END FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS, AND HARDWARE.

1.) PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NOTHING IN THESE DRAWINGS AUTHORIZES DEVIATION FROM APPLICABLE CODES.

2.) DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH CIRCUIT HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.

3.) PROVIDE A CODE APPROVED DISCONNECT SWITCH OR CIRCUIT BREAKER WITHIN SIGHT OF EVERY MOTOR AND FEED MOTORS NOT EQUIPPED WITH "BUILT IN" PROTECTION THROUGH A MAGNETIC OR MANUAL STARTER WITH OVERLOAD HEATERS SIZED TO COMPLY WITH MOTOR MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.

4.) FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, AQUASTATS, SOLENOID VALVES, AND OTHER MECHANICAL EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS, REFER TO MECHANICAL PLANS AND DETERMINE EXACT LOCATIONS UNDER DIRECTION OF HEATING AND VENTILATING CONTRACTOR.

5.) DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THE SLAB. LOCATE CONDUITS WITHIN THE MIDDLE OF THE SLAB. WHERE CONDUITS ARE GROUPED IN PARALLEL RUNS, SPACE THEM 3" OR MORE APART. WHERE CONDUITS CROSS EACH OTHER, THICKEN THE SLAB PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER OF THE LARGEST CONDUIT. REFER ALSO TO DETAILS SHOWN.

6.) SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GUAGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1–1/2" DEEP.

7.) ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED BY AT LEAST THREE (3) INCHES FROM WATER LINES WHENEVER THEY RUN ALONG SIDE OR ACROSS SUCH LINES. CONDUIT SHALL NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT SPECIFIC APPROVAL OF THE OWNER'S REPRESENTATIVE. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING. HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART OF THE VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO LANDLORD FOR APPROVAL OF APPEARANCE. ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES.

8.) ALL WALL SWITCHES AND RECEPTACLES SHALL BE MOUNTED BETWEEN 18" AND 48" PER CALIFORNIA BUILDING CODE REQUIREMENTS UNLESS OTHERWISE NOTED.

ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF OUTLET BOX NOR LESS THAN 15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM.

ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES, SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15" MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM.

9.) CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS. CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS WITH U.L. LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING JURISDICTION.

10.) SURFACE MOUNTED RACEWAY COMPLETENESS: CONTRACTOR SHALL PROVIDE ALL RACEWAY, FITTINGS, SUPPORTS, BOXES, DEVICES, PLATES ETC. NECESSARY FOR A COMPLETE AND WORKABLE SURFACE MOUNTED ELECTRICAL RACEWAY SYSTEM. PRIOR TO INSTALLATION, CONTRACTOR SHALL PERFORM A PRE–INSTALLATION SURFACE MOUNTED RACEWAY JOB WALK WITH OWNER & ARCHITECT FOR CONTRACTOR TO FIELD VERIFY EXACT ROUTING OF ANY & ALL SURFACE MOUNTED RACEWAYS.

FIRE ALARM SYSTEM BY CONTRACTOR
CONTRACTOR SHALL FURNISH AND INSTALL A FIRE ALARM SYSTEM FOR THE PROJECT AREA TO INCLUDE:

A.) SMOKE DETECTORS IN ALL REQUIRED AREAS
B.) HEAT DETECTORS IN ALL REQUIRED AREAS
C.) DUCT DETECTORS IN ALL REQUIRED SPACES
D.) STROBES/ALARMS IN ALL REQUIRED AREAS
E.) PULL STATIONS AT ALL EGRESS EXITS – WHERE REQUIRED
F.) TAMPER AND FLOW SWITCHES AT FIRE SPRINKLER RISERS AND BACKFLOW PREVENTERS
G.) BRANCH CI

SHEET NOTES

1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
2. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.
3. FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
4. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
5. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
7. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
9. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
10. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
12. 1" CONDUIT MINIMUM UNDERGROUND.
13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED. WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
14. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
15. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
16. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
17. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

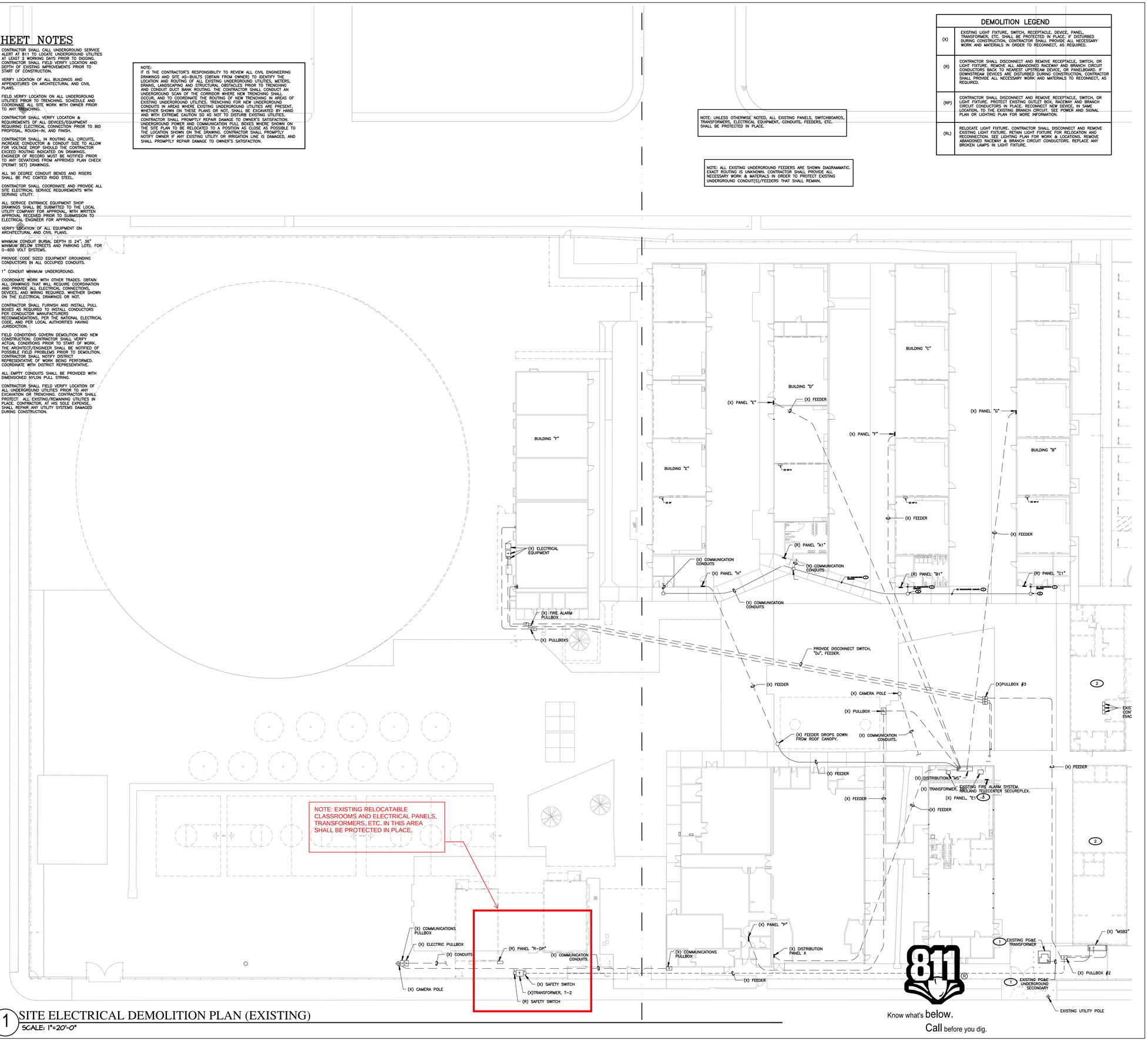
NOTE:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CIVIL ENGINEERING DRAWINGS AND SITE AS-BUILTS (OBTAIN FROM OWNER) TO IDENTIFY THE LOCATION AND ROUTING OF ALL EXISTING UNDERGROUND UTILITIES, METERS, DRAINS, LANDSCAPING AND STRUCTURAL OBSTACLES PRIOR TO TRENCHING AND CONDUIT DUCT BANK ROUTING. THE CONTRACTOR SHALL CONDUCT AN UNDERGROUND SCAN OF THE CORRIDOR WHERE NEW TRENCHING SHALL OCCUR, AND TO COORDINATE THE ROUTING OF NEW TRENCHING IN AREAS OF EXISTING UNDERGROUND UTILITIES. TRENCHING FOR NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE PRESENT, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE EXCAVATED BY HAND AND WITH EXTREME CAUTION SO AS NOT TO DISTURB EXISTING UTILITIES. CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION. UNDERGROUND POWER AND COMMUNICATION PULL BOXES WHERE SHOWN ON THE SITE PLAN TO BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWING. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER IF ANY EXISTING UTILITY OR IRRIGATION LINE IS DAMAGED, AND SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION.

NOTE: UNLESS OTHERWISE NOTED, ALL EXISTING PANELS, SWITCHBOARDS, TRANSFORMERS, ELECTRICAL EQUIPMENT, CONDUITS, FEEDERS, ETC. SHALL BE PROTECTED IN PLACE.

NOTE: ALL EXISTING UNDERGROUND FEEDERS ARE SHOWN DIAGRAMMATIC. EXACT ROUTING IS UNKNOWN. CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO PROTECT EXISTING UNDERGROUND CONDUIT(S)/FEEDERS THAT SHALL REMAIN.

DEMOLITION LEGEND

(X)	EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.
(R)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED.
(RP)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE, IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION.
(RL)	RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.



1 SITE ELECTRICAL DEMOLITION PLAN (EXISTING)
SCALE: 1"=20'-0"

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

PARTIAL SITE ELECTRICAL DEMOLITION PLAN SHEET #1

SHEET NUMBER

PHASE III

E200

DSA SUBMITTAL SET

DEMOLITION LEGEND

(X)	EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.
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NOTE: UNLESS OTHERWISE NOTED, ALL EXISTING PANELS, SWITCHBOARDS, TRANSFORMERS, ELECTRICAL EQUIPMENT, CONDUITS, FEEDERS, ETC. SHALL BE PROTECTED IN PLACE.

NOTE: ALL EXISTING UNDERGROUND FEEDERS ARE SHOWN DIAGRAMMATIC. EXACT ROUTING IS UNKNOWN. CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO PROTECT EXISTING UNDERGROUND CONDUIT(S)/FEEDERS THAT SHALL REMAIN.

NOTE: CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EQUIPMENT IN THE FIELD.

NOTE: EXISTING RELOCATABLE CLASSROOMS AND ELECTRICAL PANELS, TRANSFORMERS, ETC. IN THIS AREA SHALL BE PROTECTED IN PLACE.

BUILDING "F"
BUILDING "E"
BUILDING "D"
BUILDING "C"
BUILDING "B"
(X) PANEL "E"
(X) FEEDER
(X) PANEL "F"
(X) PANEL "G"
(X) FEEDER
(X) FEEDER
(R) PANEL "A1"
(X) PANEL "H"
(R) PANEL "B1"
(R) PANEL "C1"
(X) ELECTRICAL EQUIPMENT
(X) FIRE ALARM PULLBOX
(X) PULLBOXS
PROVIDE DISCONNECT SWITCH, "DJ", FEEDER.
(X) FEEDER
(X) CAMERA POLE
(X) PULLBOX
(X) FEEDER DROPS DOWN FROM ROOF CANOPY.
(X) COMMUNICATION CONDUITS.
(X)PULLBOX #3
EXISTING MAIN FIRE ALARM CONTROL PANEL & VOICE EVACUATION SYSTEM.
(X) FEEDER
EXISTING FIRE ALARM SYSTEM. RAULAND TELECENTER SECUREPLEX.
(X) FEEDER
(X) FEEDER
(X) COMMUNICATIONS PULLBOX
(X) ELECTRIC PULLBOX
(X) CONDUITS.
(R) PANEL "R-DP"
(X) COMMUNICATION CONDUITS.
(X) CAMERA POLE
(X) SAFETY SWITCH
(X)TRANSFORMER, T-2
(R) SAFETY SWITCH
(X) COMMUNICATIONS PULLBOX
(X) PANEL "P"
(X) DISTRIBUTION PANEL X
(X) FEEDER
EXISTING PG&E TRANSFORMER
EXISTING PG&E UNDERGROUND SECONDARY
(X) "MSB2"
(X) PULLBOX #2
EXISTING UTILITY POLE

1 SITE ELECTRICAL PLAN (EXISTING)
SCALE: 1"=20'-0"

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811 Know what's below. Call before you dig.

SHEET NOTES

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KEY NOTES

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. THIS EQUIPMENT SHALL BE PROTECTED IN PLACE UNTIL NEW "MSB" IS INSTALLED, ENERGIZED & EXISTING "MSB2" IS CUT OVER & BACKFED. EXACT TIMING & PHASING OF REMOVAL SHALL BE COORDINATED WITH PG&E, BCSD REPRESENTATIVE, & FINAL PG&E CONSTRUCTION/DEMOLITION DRAWINGS.
2. THIS BUILDING IS BEING DEMOLISHED VERIFY WITH ARCHITECTURAL PLANS. EXACT TIMING & PHASING OF ALL DEMOLITION SHALL BE COORDINATED WITH ARCHITECT & SCHOOL DISTRICT PRIOR TO START OF CONSTRUCTION/DEMOLITION.
3. THIS SYSTEM SHALL BE PROTECTED IN PLACE WHILE NEW FIRE ALARM SYSTEM IS BEING INSTALLED, DISCONNECT & REMOVE THIS SYSTEM AFTER NEW SYSTEM IS INSTALLED & TESTED. COORDINATE EXACT TIMING & PHASING OF REMOVAL OF THIS SYSTEM WITH BCSD & ARCHITECT.

AGENCY INFORMATION:

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DATE: 03/27/2020

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

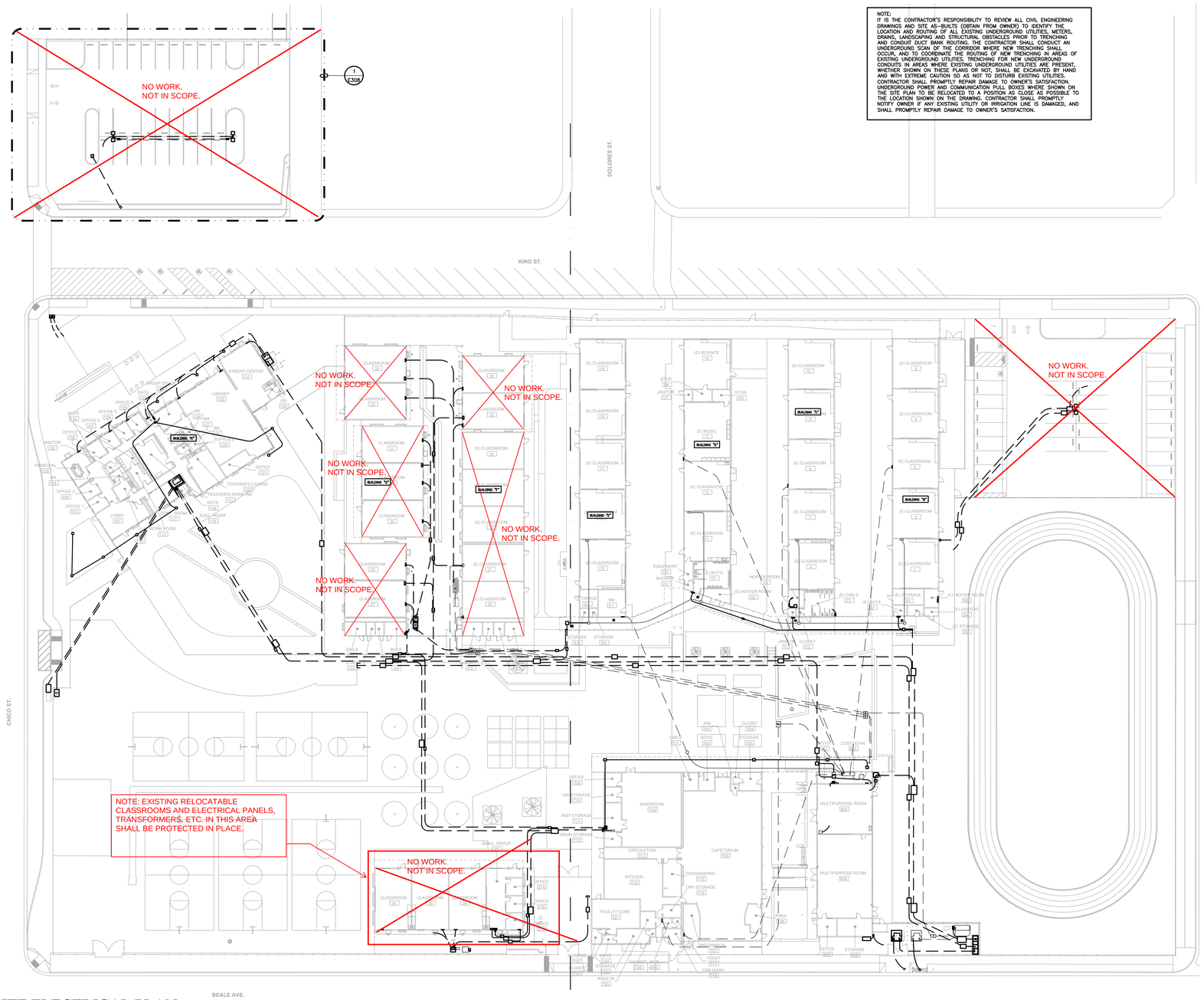
PARTIAL SITE ELECTRICAL PLAN (EXISTING) SHEET #2

SHEET NUMBER

PHASE III

E201

DSA SUBMITTAL SET



1 SITE ELECTRICAL PLAN
SCALE: 1"=30'-0"

NOTE:
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SHEET NOTES

1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
2. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.
3. FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
4. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
5. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
7. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
9. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
10. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
12. 1" CONDUIT MINIMUM UNDERGROUND.
13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

SITE ELECTRICAL PLAN

SHEET NUMBER

PHASE III

E300

DSA SUBMITTAL SET

KEY NOTES (E300A & 300B)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PROTECT IN PLACE.
2. VERIFY & PROVIDE PER UTILITY COMPANY REQUIREMENTS.
3. SHOWN DIAGRAMMATIC. EXACT ROUTING IS UNKNOWN.
4. REFER TO PROPOSED SINGLE LINE DIAGRAM FOR FEEDER INFORMATION.
5. PROVIDE 1-1/4"CO TO PANEL C IN BUILDING K FOR FUTURE POWER.
6. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM", #B1017BOX, WITH #B1017-51JH COVER BY CHRISTY CONCRETE.
7. PROVIDE 17"X30" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "COMMUNICATION", #B1730BOX, WITH #B1730-51JH COVER BY CHRISTY CONCRETE.
8. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC", CHRISTY CONCRETE, #B1017BOX WITH #B1017-52JH COVER.
9. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "COMMUNICATION", CHRISTY CONCRETE, #B1017BOX WITH #B1017-52JH COVER
10. PROVIDE 24"X36" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "COMMUNICATION", #B2436BOX, WITH #B2436-51JH COVER BY CHRISTY CONCRETE.
11. PROVIDE (4) 2" CO (SPARE) FIRE ALARM.
12. PROVIDE 17"X30" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM", #B1730BOX, WITH #B1730-51JH COVER BY CHRISTY CONCRETE.
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14. LOCATED ON ROOF.
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16. PROVIDE NEMA 3R, FATC, ON ROOFTOP OF CANOPY. COORDINATE EXACT LOCATION TO SUIT FIELD CONDITIONS. 6X6X4 NEMA 3R PULLBOX W/TERMINAL BLOCKS.
17. PROVIDE 2"C. W/(7) WEST PENN, #AQC294(5Z,2A) & (4) WEST PENN, #AQC225 ((2) DAL).
18. PROVIDE 2"C. W/(2) WEST PENN, #AQC294(22) & (2) WEST PENN, #AQC225 (DAL). & 2"CO (SPARE).
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20. COORDINATE EXACT LOCATION WITH BCSD PRIOR TO ROUGH-IN.
21. PROVIDE CONDUIT ROUTED ALONG ROOF CANOPY WITH AUDIBLE CIRCUIT A2 & Z2. PROVIDE 1"C W/(2) WEST PENN, #AQC294 (Z,A).
22. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "CCTV", CHRISTY CONCRETE, #B1017BOX WITH #B1017-52JH COVER.
23. PROVIDE 24"X36" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "PV SYSTEM", CHRISTY CONCRETE, #B2436BOX WITH #B2436-51JH COVER.
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UTILITY CONTACTS

AT&T (TELEPHONE)	DALE YOUNGBLOOD (661) 546-8252 (OFFICE) (661) 330-4274 (CELL) DY2482@ATT.COM (E-MAIL)
SCE (POWER)	TODD ADAMSON (661) 398-5960 (OFFICE) (661) 617-0521 (CELL) T1AO@PGE.COM (E-MAIL)

811 Know what's below. Call before you dig.

NOTE: EXISTING RELOCATABLE CLASSROOMS AND ELECTRICAL PANELS, TRANSFORMERS, ETC. IN THIS AREA SHALL BE PROTECTED IN PLACE.

NO WORK. NOT IN SCOPE.

1 PARTIAL SITE ELECTRICAL PLAN
SCALE: 1"=20'-0"

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

PARTIAL SITE ELECTRICAL PLAN

SHEET NUMBER

PHASE III

E300A

DSA SUBMITTAL SET

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KING ST.

MATCH LINE E300A / E300B

NO WORK. NOT IN SCOPE.

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PROVIDE 1-1/2" CO INTO LOW VOLTAGE SIDE OF LIGHTING POLE.

PROVIDE (2) 1-1/2" CO (CCTV)

1"C 2#10 & 1#10 GND. 1"CO (SPARE)

2-1 VIA "LCP-B" 1"C. 2#10 & 1#10 GND

RISE UP TO ACCESSIBLE CEILING SPACE & LB INTO BUILDING. EXTEND CONDUIT 24" INTO BUILDING WITH PLASTIC BUSHINGS; LABEL CONDUIT "SECURITY" CAMERA.

PROVIDE (6) 3" CO

PROVIDE FLUSH IN-GRADE MARKER. COORDINATE EXACT LOCATION WITH BCSD.

PV SYSTEM DUCT BANK

PROVIDE (2) 3" CO

PROVIDE (4) 3" CO

PROVIDE I-PAC K FEEDER

PROVIDE DISCONNECT SWITCH, "DA", FEEDER.

PV SYSTEM DUCT BANK.

(X) COMMUNICATION CONDUIT(S)

(X) FIRE ALARM CONDUIT(S)

(X) FEEDER DROPS DOWN FROM ROOF CANOPY.

(X)PULLBOX #3

(X) PULLBOX

(X) PANEL "E"

(X) PANEL "F"

(X) PANEL "G"

(X) PANEL "H"

(X) PANEL "A1"

(X) PANEL "B1"

(X) PANEL "C1"

(X) PANEL "P"

(X) DISTRIBUTION PANEL X

(X) FEEDER

PROVIDE PANEL A1, B1, & C1 FEEDERS

PROVIDE (3) 3"CO SPARE.

KEY NOTES (E300A & 300B)

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7. PROVIDE 17"X30" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "COMMUNICATION". #B1730BOX, WITH #B1730-S1JH COVER BY CHRISTY CONCRETE.
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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

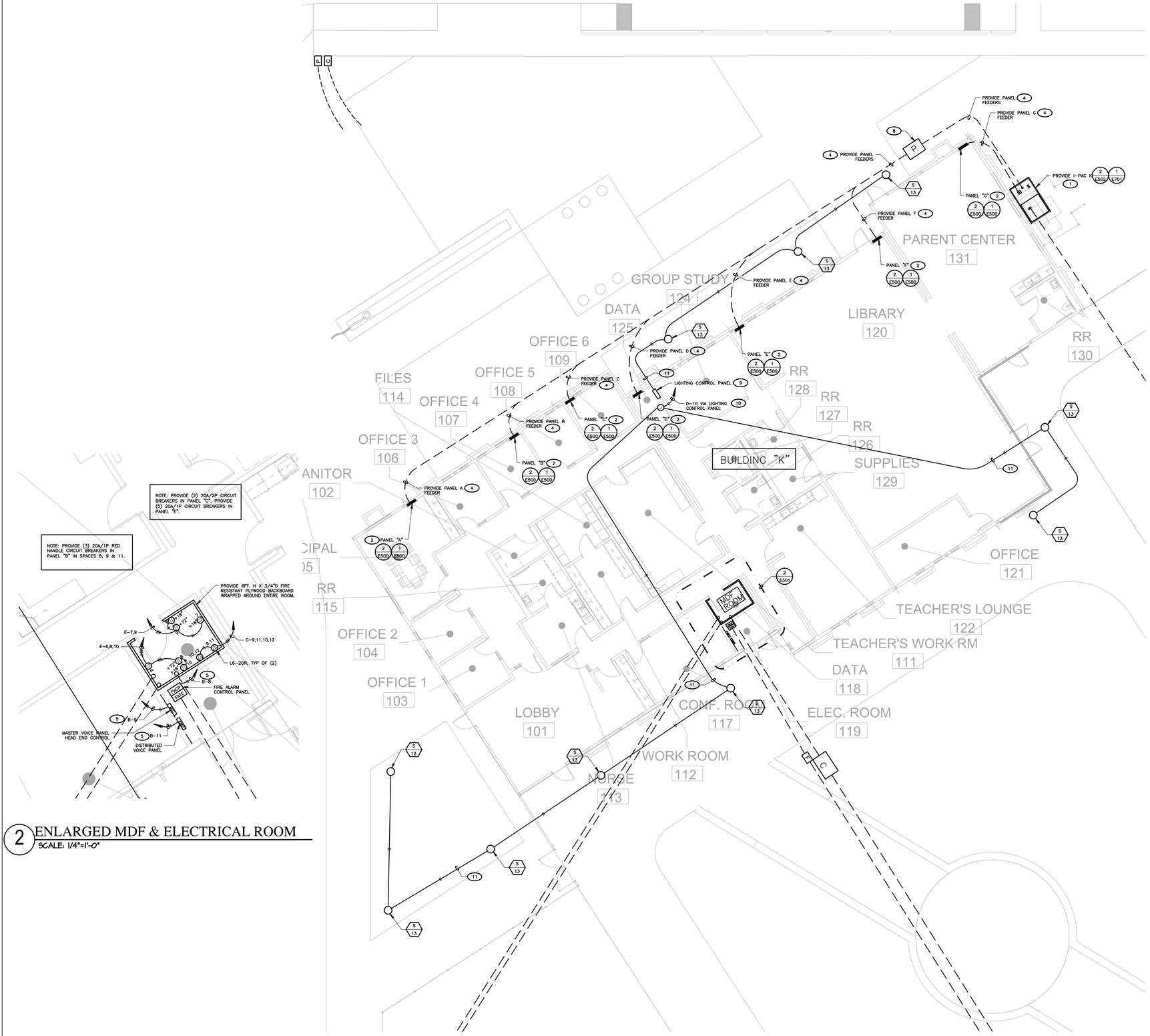
PARTIAL SITE ELECTRICAL PLAN

SHEET NUMBER

PHASE III

E300B

DSA SUBMITTAL SET



NOTE: PROVIDE (2) 20A/2P CIRCUIT BREAKERS IN PANEL "C". PROVIDE (3) 20A/1P CIRCUIT BREAKERS IN PANEL "E".

NOTE: PROVIDE (3) 20A/1P RED HANDLE CIRCUIT BREAKERS IN PANEL "B" IN SPACES 8, 9 & 11.

2 ENLARGED MDF & ELECTRICAL ROOM

SCALE: 1/4"=1'-0"

1 PARTIAL SITE ELECTRICAL PLAN (BUILDING K)

SCALE: 1/8"=1'-0"

NOTE:
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811 Know what's below. Call before you dig.

SHEET NOTES

1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
2. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.
3. FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
4. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
5. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
7. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
9. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
10. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
12. 1" CONDUIT MINIMUM UNDERGROUND.
13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
14. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
15. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
16. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
17. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

KEY NOTES (E301)

NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. REFER TO SINGLE LINE DIAGRAM.
2. BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
4. FOR FEEDER INFORMATION REFER TO SINGLE LINE DIAGRAM.
5. PROVIDE (1) 20/1P CIRCUIT BREAKER IN EXISTING SPACE OR USE SPARE 20/1P CIRCUIT BREAKER. THE CIRCUIT BREAKER SHALL HAVE A RED MARKING & BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". PROVIDE A LOCK-ON DEVICE ON THE CIRCUIT BREAKER HANDLE. CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE "FACP" & "HVAC". PROVIDE SURGE SUPPRESSORS ON THE INPUT OF CONTROL PANELS, EXCEPT FOR CONTROL PANELS WITH BUILT-IN SURGE SUPPRESSORS.
8. PROVIDE 17"X30" TRAFFIC RATED PULLBOX WITH STEEL CHECKER PLATE COVER ENGRAVED W/"ELECTRIC". #B1730BOX W/B1730-51JH COVER, BY CHRISTY CONCRETE.
9. PROVIDE WATTSTOPPER, #LCB-102/277 WITH (4) #LCSP-2.
10. PROVIDE 20A/1-POLE CIRCUIT BREAKER IN PANEL FOR LIGHTING CIRCUIT.
11. NOTE: CONTRACTOR SHALL TRANSITION FROM EMT CONDUIT TO LIQUIDTITE FLEXIBLE METAL CONDUIT WITH SLACK FOR 4" MIN. HORIZONTAL & VERTICAL MOVEMENT DUE TO SEISMIC. PROVIDE THIS BETWEEN MODULAR BLDG & CANOPY. VERIFY LOCATIONS IN THE FIELD TO SUIT FIELD CONDITIONS.

AGENCY INFORMATION:

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SHEET TITLE

PARTIAL SITE ELECTRICAL PLAN (BUILDING K)

SHEET NUMBER PHASE III

E301

DSA SUBMITTAL SET

SHEET NOTES

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6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
7. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
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10. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
12. 1" CONDUIT MINIMUM UNDERGROUND.
13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
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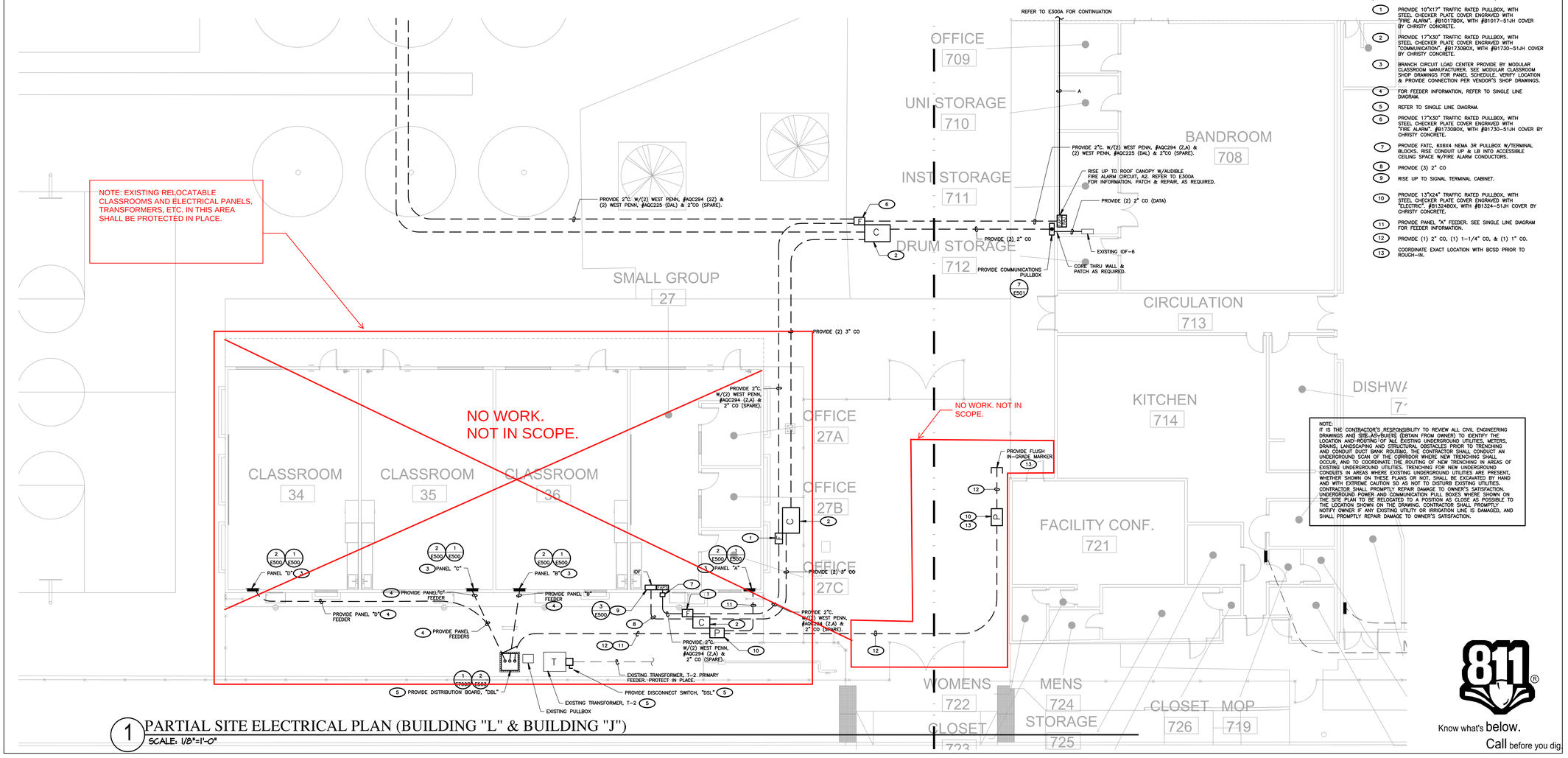
KEY NOTES (E302)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM". #B1017BOX, WITH #B1017-51JH COVER BY CHRISTY CONCRETE.
2. PROVIDE 17"X30" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "COMMUNICATION". #B1730BOX, WITH #B1730-51JH COVER BY CHRISTY CONCRETE.
3. BRANCH CIRCUIT LOAD CENTER PROVIDE BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
4. FOR FEEDER INFORMATION, REFER TO SINGLE LINE DIAGRAM.
5. REFER TO SINGLE LINE DIAGRAM.
6. PROVIDE 17"X30" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM". #B1730BOX, WITH #B1730-51JH COVER BY CHRISTY CONCRETE.
7. PROVIDE FATC, 6X6X4 NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM CONDUCTORS.
8. PROVIDE (3) 2" CO
9. RISE UP TO SIGNAL TERMINAL CABINET.
10. PROVIDE 13"X24" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC". #B1324BOX, WITH #B1324-51JH COVER BY CHRISTY CONCRETE.
11. PROVIDE PANEL "A" FEEDER. SEE SINGLE LINE DIAGRAM FOR FEEDER INFORMATION.
12. PROVIDE (1) 2" CO, (1) 1-1/4" CO, & (1) 1" CO.
13. COORDINATE EXACT LOCATION WITH BCSD PRIOR TO ROUGH-IN.



1 PARTIAL SITE ELECTRICAL PLAN (BUILDING "L" & BUILDING "J")
SCALE: 1/8"=1'-0"

811 Know what's below. Call before you dig.

DSA SUBMITTAL SET

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PARTIAL SITE ELECTRICAL PLAN (BUILDING L & J)

SHEET NUMBER

PHASE III

E302

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1 PARTIAL SITE ELECTRICAL PLAN (BUILDINGS B,C,D, & E)

SCALE: 1/8"=1'-0"

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SHEET NOTES

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11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
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KEY NOTES (E304)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. REFER TO "T" SHEETS FOR WORK/CABLE REQUIREMENTS.
2. (X) COMMUNICATIONS PULLBOX. LOCATED ON ROOF CANOPY.
3. VERIFY & PROVIDE ALL WORK & LOCATIONS PER VENDOR'S SHOP DRAWINGS & SUBMITTALS. EXACT LOCATION SHALL BE VERIFIED W/ARCHITECT & LANDSCAPE PLANS.

(E) CLASSROOM 19 · (E) CLASSROOM 18 · (E) CLASSROOM 17 · (E) CLASSROOM 16 · BUILDING "E" · (E) CLASSROOM 15 · (E) SCIENCE 14 · STOR. D6 · JANITOR D7 · STOR. D5 · (E) MUSIC 13 · BUILDING "D" · (E) CLASSROOM 12 · (E) CLASSROOM 11 · EQUIPMENT D4 · SHOWER D3 · (E) BOY'S D1 · STORAGE E2 · RR E1 · STORAGE E3 · STORAGE E4 · (E) HEATER ROOM D2 · HEATER ROOM C4 · JANITOR C3 · CLOSET C2 · (E) CLASSROOM 10 · BUILDING "C" · (E) CLASSROOM 9 · (E) CLASSROOM 8 · (E) CLASSROOM 7 · (E) CLASSROOM 6 · (E) GIRL'S C1 · (E) BOYS B2 · (E) CLASSROOM 5 · (E) CLASSROOM 4 · (E) CLASSROOM 3 · BUILDING "B" · (E) CLASSROOM 2 · (E) CLASSROOM 1 · (E) STORAGE B1 · (E) HEATE B · (E) JAN B · (E) STO B

(X) IDF-1 · (X) IDF-2 · (X) IDF-3 · (X) IDF-4

PANEL "A1" · PROVIDE PANEL "A1" FEEDER · (X) COMMUNICATION CONDUITS 1 · 2 · PROVIDE (4) 2" CO. (DATA) · PROVIDE 16"X8"X6" NEMA 3R PULLBOX

PROVIDE RPS-B · PPB-2 · PROVIDE PANEL "PPB" · PROVIDE XFMR "TFB" 2A 2501 · PPB-8 · IRRIGATION CONTROLLER 3 · PANEL "B1" · PROVIDE PANEL "B1" FEEDER

PANEL "C1" · PROVIDE PANEL "C1" FEEDER · RISE ROOFTOP PANEL FEEDERS UP TO ROOF CANOPY. COORDINATE EXACT LOCATION W/ARCHITECT PRIOR TO ROUGH-IN. · PROVIDE 16"X16"X6" NEMA 3R PULLBOX ON CANOPY ROOFTOP. · PROVIDE ROOF PANELS C1,B1, & A1 FEEDERS.

NO WORK. NOT IN SCOPE.

LIGHTING CONTROL PANEL "LCP-B" · PANEL "C2"

P · C · PV

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PARTIAL SITE ELECTRICAL PLAN (BUILDINGS B,C,D, & E)

SHEET NUMBER

PHASE III

E304

DSA SUBMITTAL SET

1 PARTIAL SITE ELECTRICAL PLAN (BUILDINGS F & G)

SCALE: 1/8"=1'-0"

NO WORK. NOT IN SCOPE.

NO WORK. NOT IN SCOPE.

NO WORK. NOT IN SCOPE.

NO WORK. NOT IN SCOPE.

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CLASSROOM 33 — CLASSROOM R27
CLASSROOM 32 — CLASSROOM R28
CLASSROOM 31 — CLASSROOM R29
CLASSROOM BUILDING "G" 30 — CLASSROOM R30
CLASSROOM 29 — CLASSROOM R31
CLASSROOM 28 — CLASSROOM R32
CLASSROOM 27 — CLASSROOM R33
CLASSROOM 26 — CLASSROOM R26
CLASSROOM 25 — CLASSROOM R25
(E) CLASSROOM 24
(E) CLASSROOM BUILDING "F" 23
(E) CLASSROOM 22
(E) CLASSROOM 21
(E) CLASSROOM 20

PANEL R27 — PROVIDE PANEL R27 FEEDER
PROVIDE (2) 2"CO (DATA)
LOCATE IN HUBBEL #RE4X BOX.
PANEL R28 — PROVIDE PANEL R28 FEEDER
PANEL R29 — PROVIDE PANEL R29 FEEDER
PANEL R30 — PROVIDE PANEL R30 FEEDER
PANEL R31 — PROVIDE PANEL R31 FEEDER
PANEL R32 — PROVIDE PANEL R32 FEEDER
PANEL R33 — PROVIDE PANEL R33 FEEDER
PANEL R26 — PROVIDE PANEL R26 FEEDER
PANEL R25 — PROVIDE PANEL R25 FEEDER
PROVIDE (2) 3"CO (DATA)
PROVIDE (2) 2" CO (DATA)
EXISTING IDF.
(X) DISTRIBUTION BOARD,"DBS".
(X) TRANSFORMER,"TR"
(X) DISCONNECT SWITCH, "DS".
(X) HUBBEL, #RE4X BOX.
PANEL RR — PROVIDE PANEL RR FEEDER
DISTRIBUTION BOARD,"DBJ".
TRANSFORMER,"TJ".
DISCONNECT SWITCH, "DJ".
PROVIDE 1-1/2"C. W/(2) WEST PENN, #AQC294 (1Z,1A)
PROVIDE DISCONNECT SWITCH, "DJ" FEEDER
PROVIDE 2"C. W/(4) WEST PENN, #AQC294 (3Z,1A) & (2) WEST PENN, #AQC225 (DAL). & (2) 2"CO (SPARE).
(X) PULLBOX #4
(X) FIRE ALARM PULLBOX
PROVIDE 24"X24"X8" NEMA 3R PULLBOX ON ROOF OF CANOPY.
RISE UP TO ROOF CANOPY
RISE UP TO ROOF CANOPY. REFER TO FIRE ALARM SHEET E604
PROVIDE 2"C. W/(2) WEST PENN, #AQC294(2Z) & (2)WEST PENN, #AQC225 (DAL) & (2) 2"CO (SPARE).
PROVIDE (4) 2" CO

GIRLS G1 — BOYS
STAFF — STAFF — STAFF — STAFF
GIRLS E1 — BOYS E4

SHEET NOTES

1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
2. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.
3. FIELD VERIFY LOCATION ON ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
4. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
5. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
6. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
7. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
9. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
10. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
12. 1" CONDUIT MINIMUM UNDERGROUND.
13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED. WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
14. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
15. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
16. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
17. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.

POWER PLAN KEY NOTES(E305)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. REFER TO PROPOSED SINGLE LINE DIAGRAM.
2. BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
3. PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING LIGHTING BRANCH CIRCUIT TO PROVIDE TITLE 24 COMPLIANT OCCUPANCY SENSOR CONTROL. PROVIDE ALL REQUIRED RELAYS, POWER PACKS, & SENSORS FOR A COMPLETE SYSTEM.
4. FOR FEEDER INFORMATION REFER TO SINGLE LINE DIAGRAM.
5. PROVIDE (1) 20/1P CIRCUIT BREAKER IN EXISTING SPACE OR USE SPARE 20/1P CIRCUIT BREAKER. THE CIRCUIT BREAKER SHALL HAVE A RED MARKING & BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". PROVIDE A LOCK-ON DEVICE ON THE CIRCUIT BREAKER HANDLE. CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE "FACP" & "EVAC". PROVIDE SURGE SUPPRESSORS ON THE INPUT OF CONTROL PANELS, EXCEPT FOR CONTROL PANELS WITH BUILT-IN SURGE SUPPRESSORS.
6. PROVIDE TVSS TYPE 120V,20A RECEPTACLE. LOCATE IN RE4 XBOX.
7. PROVIDE 13"X24" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "ELECTRIC" #B1324BOX WITH B1324-51JH COVER, BY CHRISTY CONCRETE.
8. PROVIDE HUBBEL, #RE4XBOX.
9. PROVIDE 13"X24" TRAFFIC RATED PULLBOX. WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "COMMUNICATION". #B1324BOX WITH B1324-51JH COVER, BY CHRISTY CONCRETE.
10. RISE UP TO SIGNAL TERMINAL CABINET.
11. PROVIDE 17"X30" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM". #B1730BOX, WITH #B1730-51JH COVER BY CHRISTY CONCRETE.
13. PROVIDE 13"X24" TRAFFIC RATED PULLBOX. WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "COMMUNICATION" #B1324BOX WITH B1324-51JH COVER, BY CHRISTY CONCRETE.
14. RISE UP ALONGSIDE STEEL SUPPORT COLUMN ATTACHED TO CANOPY. PROVIDE ALL REQUIRED SUPPORTS, UNISTRUT ASSEMBLIES, ETC. IN ORDER TO TRANSITION CONDUIT IN-GRADE, AS SHOWN. VERIFY EXACT LOCATION IN THE FIELD.

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT — Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

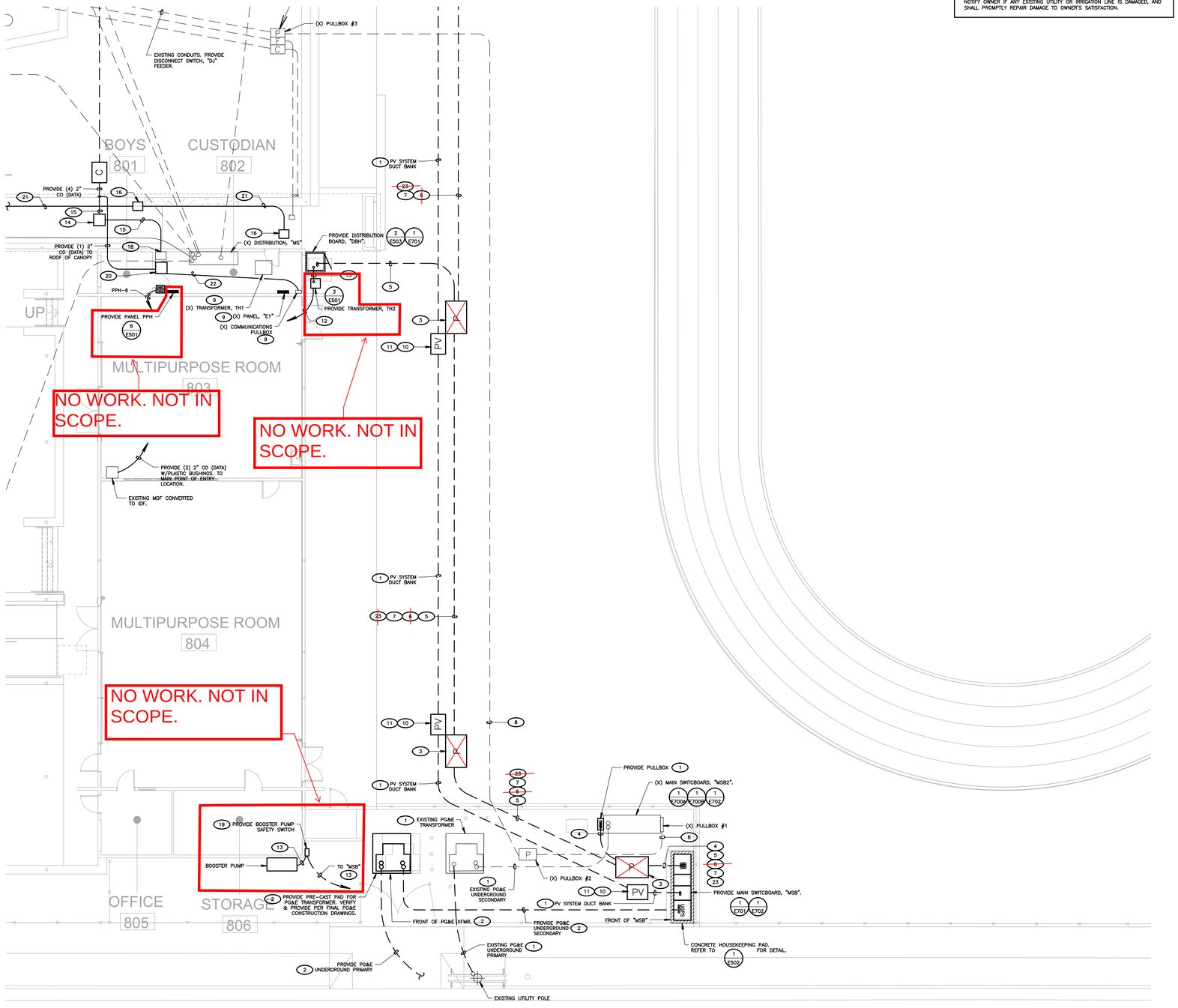
PARTIAL SITE ELECTRICAL PLAN (BUILDINGS F & G)

SHEET NUMBER

PHASE III

E305

DSA SUBMITTAL SET



1 PARTIAL SITE ELECTRICAL PLAN
SCALE: 1/8"=1'-0"

NOTE:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CIVIL ENGINEERING DRAWINGS AND SITE AS-BUILTS (OBTAIN FROM OWNER) TO IDENTIFY THE LOCATION AND ROUTING OF ALL EXISTING UNDERGROUND UTILITIES, METERS, DRAINS, LANDSCAPING AND STRUCTURAL OBSTACLES PRIOR TO TRENCHING AND CONDUIT DUCT BANK ROUTING. THE CONTRACTOR SHALL CONDUCT AN UNDERGROUND SCAN OF THE CORRIDOR WHERE NEW TRENCHING SHALL OCCUR, AND TO COORDINATE THE ROUTING OF NEW TRENCHING IN AREAS OF EXISTING UNDERGROUND UTILITIES. TRENCHING FOR NEW UNDERGROUND CONDUITS IN AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE PRESENT, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE EXCAVATED BY HAND AND WITH EXTREME CAUTION SO AS NOT TO DISTURB EXISTING UTILITIES. CONTRACTOR SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION. UNDERGROUND POWER AND COMMUNICATION PULL BOXES WHERE SHOWN ON THE SITE PLAN TO BE RELOCATED TO A POSITION AS CLOSE AS POSSIBLE TO THE LOCATION SHOWN ON THE DRAWING. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER IF ANY EXISTING UTILITY OR IRRIGATION LINE IS DAMAGED, AND SHALL PROMPTLY REPAIR DAMAGE TO OWNER'S SATISFACTION.

SHEET NOTES

1. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 811 TO LOCATE UNDERGROUND UTILITIES AT LEAST 2 WORKING DAYS PRIOR TO DIGGING. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
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8. ALL SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL UTILITY COMPANY FOR APPROVAL, WITH WRITTEN APPROVAL RECEIVED PRIOR TO SUBMISSION TO ELECTRICAL ENGINEER FOR APPROVAL.
9. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
10. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS AND PARKING LOTS. FOR 0-600 VOLT SYSTEMS.
11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
12. 1" CONDUIT MINIMUM UNDERGROUND.
13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
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KEY NOTES (E307)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. REFER TO SINGLE LINE DIAGRAM.
2. ALL WORK & LOCATIONS SHALL BE COORDINATED WITH FINAL PG&E CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION. VERIFY & PROVIDE ALL WORK PER PG&E COMPANY REQUIREMENTS.
3. PROVIDE 3'X5'X4' TRAFFIC RATED VAULT, WITH STEEL DIAMOND PLATE COVER ENGRAVED WITH "ELECTRIC". EDISON 3548FP, BY OLD CASTLE PRECAST.
4. PROVIDE MAIN SWITCHBOARD, "MSB2". FEEDER.
5. PROVIDE DISTRIBUTION BOARD, "DBH", FEEDER.
6. ~~PROVIDE PANEL A1, PANEL B1, & PANEL C1 FEEDERS.~~
7. PROVIDE I-PAC K, FEEDER.
8. ~~PROVIDE DISCONNECT SWITCH, "DJ" FEEDER.~~
9. LOCATED ON ROOF.
10. PROVIDE 24"X36" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "PV SYSTEM". CHRISTY CONCRETE, #B2436BOX WITH #B2436-S1JH COVER.
11. VERIFY & PROVIDE WITH FINAL PV SYSTEM VENDOR'S SHOP DRAWINGS & APPROVED SUBMITTALS. SHOWN FOR INFORMATION ONLY.
12. ~~PROVIDE PANEL PPH, FEEDER. CORE THRU EXISTING WALL & PATCH. SEAL WEATHERTIGHT. REFER TO SINGLE LINE DIAGRAM.~~
13. PROVIDE FEEDER. REFER TO SINGLE LINE DIAGRAM.
14. PROVIDE NEMA 3R PULLBOX, 24X24X6, TIGHT TO UNDERSIDE OF CANOPY.
15. PROVIDE (3) 2" CO (DATA) TO UNDERSIDE OF CANOPY.
16. PROVIDE NEMA 3R, FATC, ON ROOFTOP OF CANOPY. COORDINATE EXACT LOCATION TO SUIT FIELD CONDITIONS. 6X6X4 NEMA 3R PULLBOX W/TERMINAL BLOCKS.
17. RISE UP ALONGSIDE STEEL SUPPORT COLUMN ATTACHED TO CANOPY. PROVIDE ALL REQUIRED SUPPORTS, UNISTRUT ASSEMBLIES, ETC. IN ORDER TO TRANSITION CONDUIT IN-GRADE, AS SHOWN. VERIFY EXACT LOCATION IN THE FIELD.
18. CORE THRU WALL TO MAIN POINT OF ENTRY. PATCH & REPAIR, AS REQUIRED. PROVIDE PLASTIC BUSHINGS ON CONDUITS.
19. VERIFY & PROVIDE ALL WORK & LOCATIONS PER VENDOR'S SHOP DRAWINGS & APPROVED SUBMITTALS. EXACT LOCATION SHALL BE VERIFIED W/ARCHITECTURAL & LANDSCAPE PLANS.
20. PROVIDE NEMA 3R PULLBOX, 24X24X6 ON ROOF OF COVERED CANOPY.
21. PROVIDE CONDUIT ROUTED ALONG ROOF CANOPY WITH AUDIBLE CIRCUIT A2 & Z2. PROVIDE 1"C W/(2) WEST PENN, #AQC294 (ZA)
22. PROVIDE 2" CO (DATA) ON ROOF OF COVERED CANOPY.
23. PROVIDE (3) 3" CO SPARE.

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BAKERSFIELD CITY SCHOOL DISTRICT

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815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

PARTIAL SITE ELECTRICAL PLAN

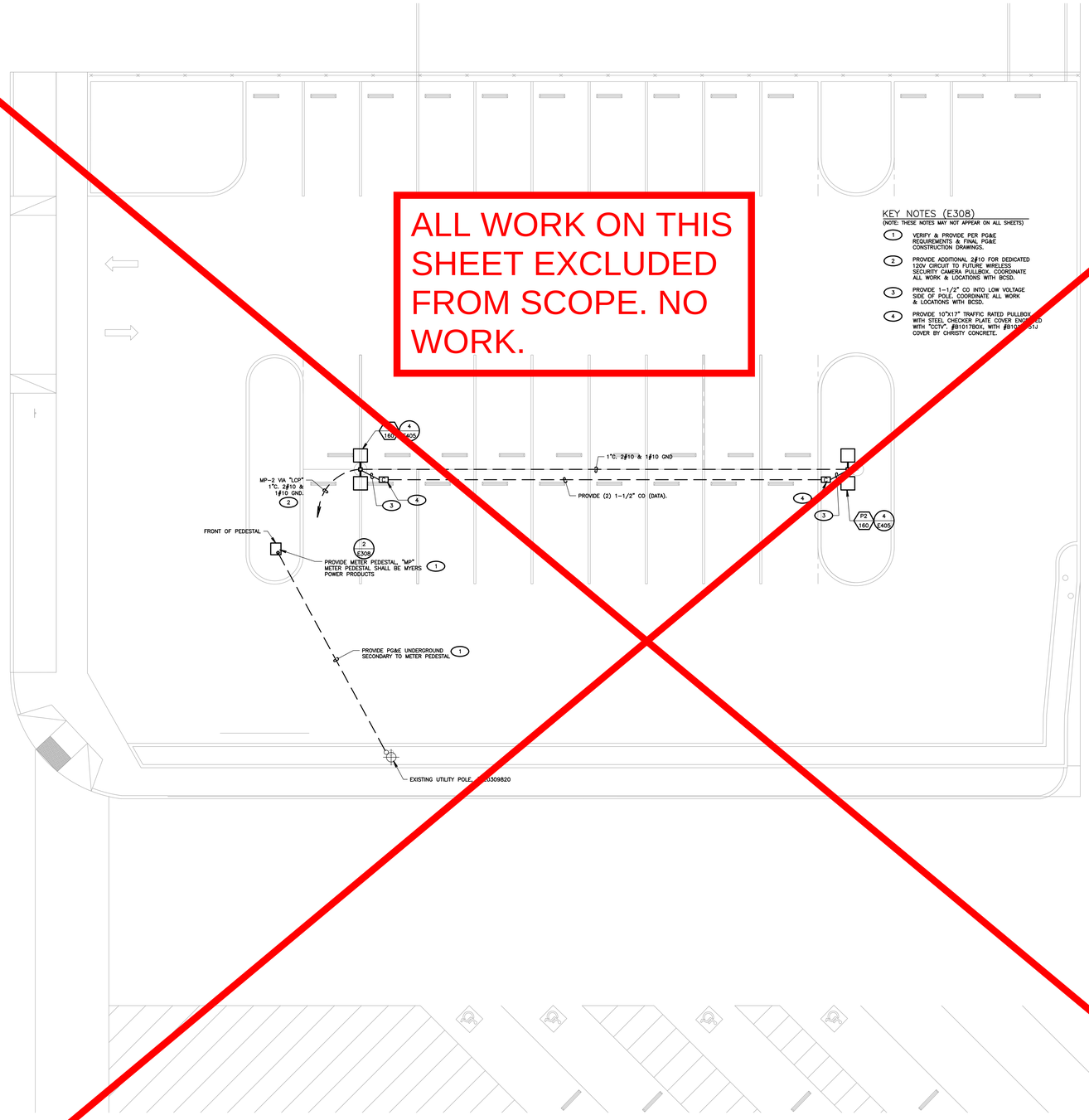
SHEET NUMBER

PHASE III

E307

DSA SUBMITTAL SET

ALL WORK ON THIS SHEET EXCLUDED FROM SCOPE. NO WORK.

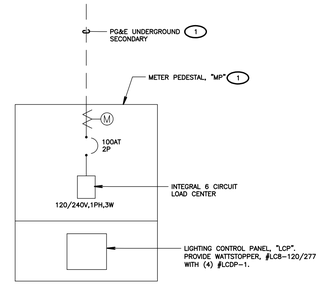


1 PARTIAL SITE ELECTRICAL PLAN
SCALE: 1/8"=1'-0"

KEY NOTES (E308)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. VERIFY & PROVIDE PER PG&E REQUIREMENTS & FINAL PG&E CONSTRUCTION DRAWINGS.
2. PROVIDE ADDITIONAL 2#10 FOR DEDICATED 120V CIRCUIT TO FUTURE WIRELESS SECURITY CAMERA PULLBOX. COORDINATE ALL WORK & LOCATIONS WITH BCSD.
3. PROVIDE 1-1/2" CO INTO LOW VOLTAGE SIDE OF POLE. COORDINATE ALL WORK & LOCATIONS WITH BCSD.
4. PROVIDE 10"X17" TRAFFIC RATED PULLBOX WITH STEEL, CHECKER PLATE COVER ENGRAVED WITH "CCTV". #B1017BOX, WITH #B1017SCV COVER BY CHRISTY CONCRETE.



2 METER PEDESTAL SINGLE LINE DIAGRAM
SCALE: NOT TO SCALE

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11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
12. 1" CONDUIT MINIMUM UNDERGROUND.
13. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
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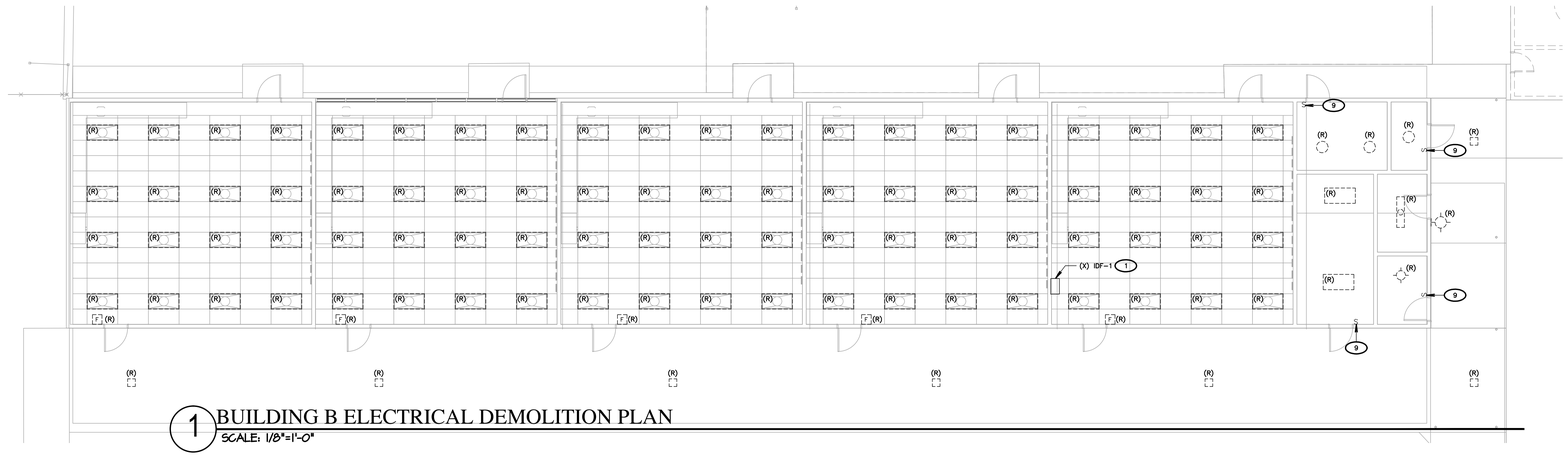
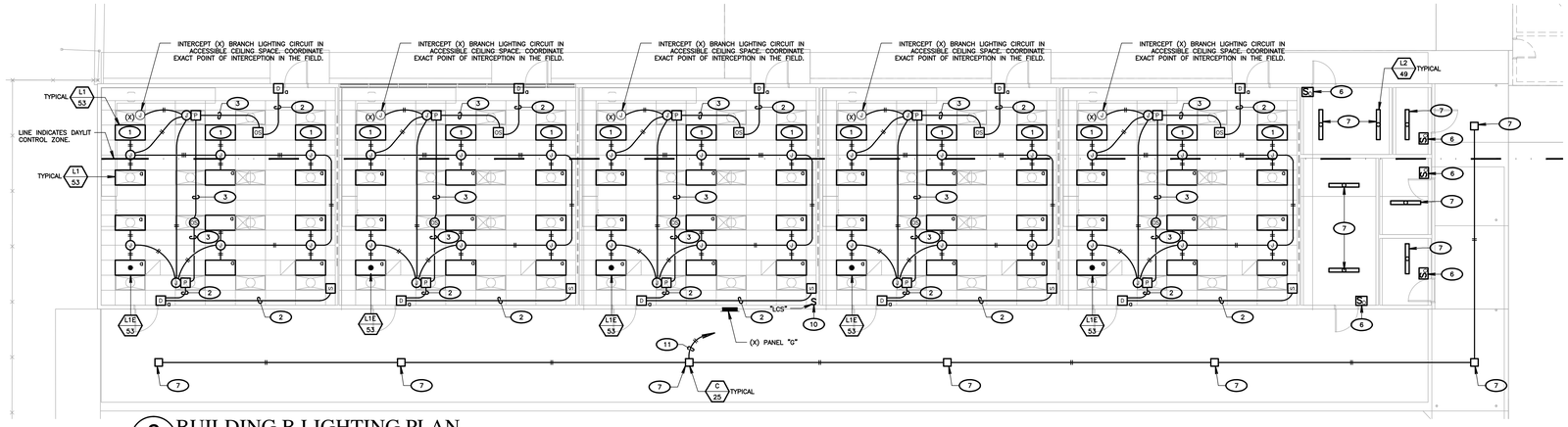


1 BUILDING B ELECTRICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"

DEMOLITION LEGEND	
(X)	EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.
(R)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED.
(RP)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE, IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION.
(RL)	RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.

ELECTRICAL DEMOLITION PLAN NOTES
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

(1) PROTECT IN PLACE



2 BUILDING B LIGHTING PLAN
SCALE: 1/8"=1'-0"

KEYNOTES
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. LIGHT FIXTURE LOCATED IN DAYLIT ZONE SHALL BE CONTROLLED BY SENSOR W/DAYLIGHT CONTROL.
2. PROVIDE 1" C. EMT TO ACCESSIBLE CEILING SPACE W/PLASTIC BUSHING(S). PROVIDE ALL REQUIRED PRE-TERMINATED nLIGHT CAT6 CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
3. PROVIDE PRE-TERMINATED nLIGHT CAT6 CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
4. INTERCEPT EXISTING RESTROOM BRANCH LIGHTING CIRCUIT HOT & NEUTRAL.
5. PROVIDE CEILING MOUNT OCCUPANCY SENSOR. SENSOR SWITCH, #CWR-POT-10. SET TIME DELAY TO 30 MINUTES. PROGRAM FOR AUTO-ON.
6. PROVIDE WALL SWITCH OCCUPANCY SENSOR. SENSOR SWITCH, #WSX-POT-WH.
7. CONNECT LIGHT FIXTURE TO EXISTING BRANCH CIRCUIT AT SAME LOCATION OF REMOVED LIGHT FIXTURE.
8. NOT USED
9. REMOVE SWITCH & REPLACE WITH OCCUPANCY SENSOR SWITCH. SEE LIGHTING PLAN.
10. LIGHTING CONTROL SWITCH, "LCS". PROVIDE TORK ASTRO-CLOCK TIME SWITCH. COORDINATE PROGRAMMING W/DISTRICT. TORK, #SS703Z.
11. PROVIDE ALL WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING BRANCH CIRCUIT HOMERUN & RE-ROUTE TO EXISTING 120V BRANCH CIRCUIT VIA "LCS" IN CLASSROOM.
12. BLANK OFF SWITCH.

LIGHTING SHEET NOTES

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH INSTALLATION.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
4. 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED.
5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL PROVIDE ALL BACKING BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
13. GRAPHICS / SIGNAGE: VERIFY & PROVIDE CONNECTION TO SIGNAGE PER VENDOR'S SHOP DRAWINGS. VERIFY SIGN LOCATION, MOUNTING ELEVATION AND BRANCH CIRCUIT REQUIREMENTS PRIOR TO ROUGH-IN.
14. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.
15. PROVIDE ALL REQUIRED DEVICE COVER PLATES..

LIGHTING LEGEND

- D — PROVIDE nLIGHT, #nPODM-2P-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- E — PROVIDE nLIGHT, #nPODM-4S-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATON INSTRUCTIONS. TEACHERS STATION. VERIFY EXACT LOCATION W/ARCH.
- OS — OCCUPANCY SENSOR WITH DAYLIGHT CONTROL, CEILING MOUNTED. PROVIDE nLIGHT, #nCMPDT-10-RJ8-ADCX. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- OS — OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE nLIGHT, #nCMPDT-10-RJ8. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- P — PROVIDE POWER/RELAY PACK IN ACCESSIBLE CEILING SPACE. PROVIDE nLIGHT, #nPP16-D-EFP.

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT — Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

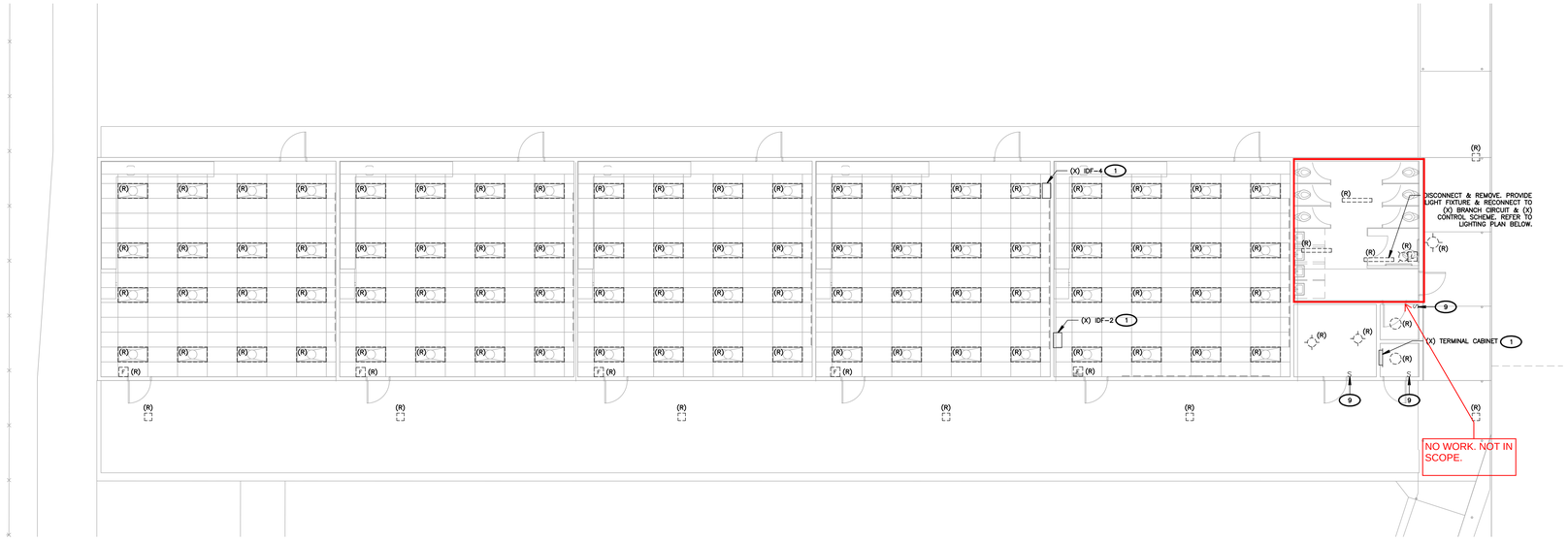
BUILDING B LIGHTING DEMOLITION/LIGHTING PLAN

SHEET NUMBER

PHASE III

E400

DSA SUBMITTAL SET



1 BUILDING C ELECTRICAL DEMOLITION PLAN

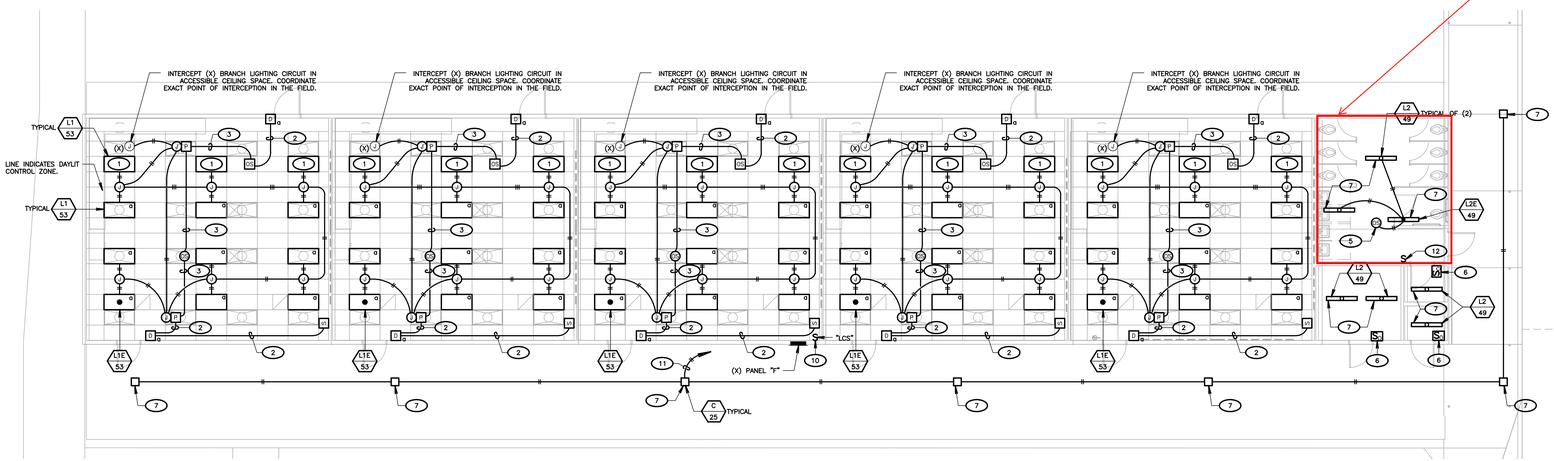
SCALE: 1/8"=1'-0"

DEMOLITION LEGEND	
(X)	EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC., SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.
(R)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED.
(RP)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION.
(RL)	RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.

ELECTRICAL DEMOLITION PLAN NOTES

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1 PROTECT IN PLACE



2 BUILDING C LIGHTING PLAN

SCALE: 1/8"=1'-0"

LIGHTING LEGEND

- D PROVIDE nLIGHT, #nPODM-2P-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- S PROVIDE nLIGHT, #nPODM-4S-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, TEACHERS STATION. VERIFY EXACT LOCATION W/ARCH.
- DS OCCUPANCY SENSOR WITH DAYLIGHT CONTROL, CEILING MOUNTED. PROVIDE nLIGHT, #nCMPDT-10-RJB-ADCX. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- OS OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE nLIGHT, #nCMPDT-10-RJB. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- P PROVIDE POWER/RELAY PACK IN ACCESSIBLE CEILING SPACE. PROVIDE nLIGHT, #nPP16-D-EFP.

LIGHTING SHEET NOTES

KEYNOTES

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. LIGHT FIXTURE LOCATED IN DAYLIT ZONE SHALL BE CONTROLLED BY SENSOR W/DAYLIGHT CONTROL.
2. PROVIDE 1" C. EMT TO ACCESSIBLE CEILING SPACE W/PLASTIC BUSHING(S). PROVIDE ALL REQUIRED PRE-TERMINATED nLIGHT CAT5 CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
3. PROVIDE PRE-TERMINATED nLIGHT CAT5 CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
4. INTERCEPT EXISTING RESTROOM BRANCH LIGHTING CIRCUIT HOT & NEUTRAL.
5. PROVIDE CEILING MOUNT OCCUPANCY SENSOR. SENSOR SWITCH, #CMR-PDT-10, SET TIME DELAY TO 30 MINUTES. PROGRAM FOR AUTO-ON.
6. PROVIDE WALL SWITCH OCCUPANCY SENSOR. SENSOR SWITCH, #WSX-PDT-WH.
7. CONNECT LIGHT FIXTURE TO EXISTING BRANCH CIRCUIT AT SAME LOCATION OF REMOVED LIGHT FIXTURE.
8. NOT USED
9. REMOVE SWITCH & REPLACE WITH OCCUPANCY SENSOR SWITCH. SEE LIGHTING PLAN.
10. LIGHTING CONTROL SWITCH, "LCS". PROVIDE TORK ASTRO-CLOCK TIME SWITCH. COORDINATE PROGRAMMING W/DISTRICT. TORK, #S57032.
11. PROVIDE ALL WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING BRANCH CIRCUIT HOMERUN & RE-ROUTE TO EXISTING 120V BRANCH CIRCUIT VIA "LCS" IN CLASSROOM.
12. BLANK OFF SWITCH.

SHEET NOTES

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH INSTALLATION.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
4. 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED.
5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL PROVIDE ALL BACKING BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
13. GRAPHICS / SIGNAGE: VERIFY & PROVIDE CONNECTION TO SIGNAGE PER VENDOR'S SHOP DRAWINGS. VERIFY SIGN LOCATION, MOUNTING ELEVATION AND BRANCH CIRCUIT REQUIREMENTS PRIOR TO ROUGH-IN.
14. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.
15. PROVIDE ALL REQUIRED DEVICE COVER PLATES..

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION

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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

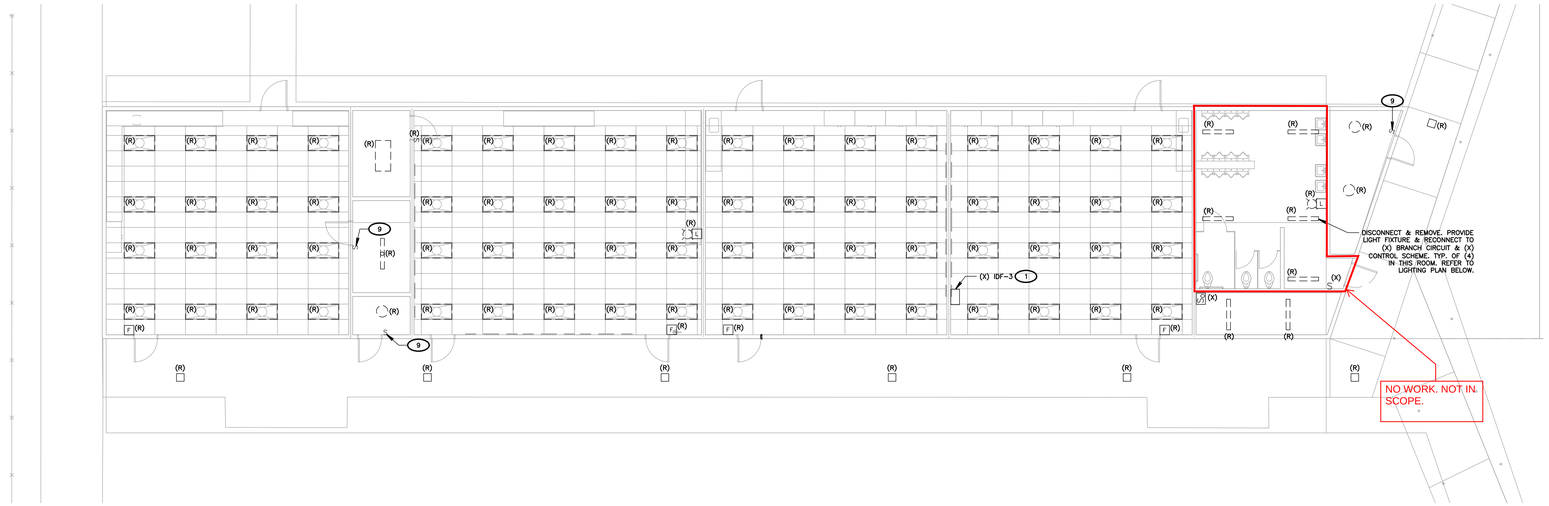
BUILDING C LIGHTING DEMOLITION/LIGHTING PLAN

SHEET NUMBER

PHASE III

E401

DSA SUBMITTAL SET



1 BUILDING D ELECTRICAL DEMOLITION PLAN

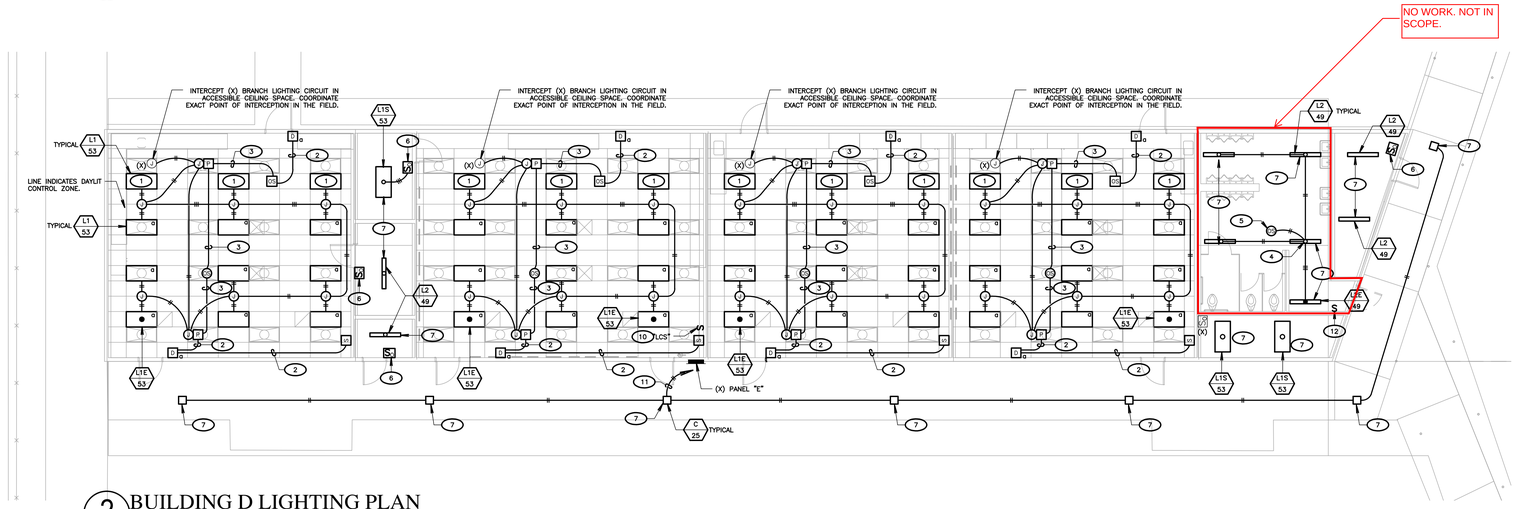
SCALE: 1/8"=1'-0"

DEMOLITION LEGEND	
(X)	EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC., SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.
(R)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED.
(RP)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE, IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION.
(RL)	RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE, RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.

ELECTRICAL DEMOLITION PLAN NOTES

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PROTECT IN PLACE



2 BUILDING D LIGHTING PLAN

SCALE: 1/8"=1'-0"

KEYNOTES

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. LIGHT FIXTURE LOCATED IN DAYLIT ZONE SHALL BE CONTROLLED BY SENSOR W/DAYLIGHT CONTROL.
2. PROVIDE 1" C. EMT TO ACCESSIBLE CEILING SPACE W/PLASTIC BUSHING(S). PROVIDE ALL REQUIRED PRE-TERMINATED nLIGHT CAT5 CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
3. PROVIDE PRE-TERMINATED nLIGHT CAT5 CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
4. INTERCEPT EXISTING RESTROOM BRANCH LIGHTING CIRCUIT HOT & NEUTRAL.
5. PROVIDE CEILING MOUNT OCCUPANCY SENSOR. SENSOR SWITCH, #CMR-PDT-10. SET TIME DELAY TO 30 MINUTES. PROGRAM FOR AUTO-ON.
6. PROVIDE WALL SWITCH OCCUPANCY SENSOR. SENSOR SWITCH, #WSX-PDT-WH.
7. CONNECT LIGHT FIXTURE TO EXISTING BRANCH CIRCUIT AT SAME LOCATION OF REMOVED LIGHT FIXTURE.
8. NOT USED
9. REMOVE SWITCH & REPLACE WITH OCCUPANCY SENSOR SWITCH. SEE LIGHTING PLAN.
10. LIGHTING CONTROL SWITCH, "LCS". PROVIDE TORK ASTRO-CLOCK TIME SWITCH. COORDINATE PROGRAMMING W/DISTRICT. TORK, #SS7032.
11. PROVIDE ALL WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING BRANCH CIRCUIT HOMERUN & RE-ROUTE TO EXISTING 120V BRANCH CIRCUIT VIA "LCS" IN CLASSROOM.
12. BLANK OFF SWITCH.

LIGHTING LEGEND

- D — PROVIDE nLight, #nPODM-2P-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- S — PROVIDE nLight, #nPODM-4S-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TEACHERS STATION. VERIFY EXACT LOCATION W/ARCH.
- OS — OCCUPANCY SENSOR WITH DAYLIGHT CONTROL, CEILING MOUNTED. PROVIDE nLight, #nCMPDT-10-RJB-ADCK. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- OS — OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE nLight, #nCMPDT-10-RJB. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- P — PROVIDE POWER/RELAY PACK IN ACCESSIBLE CEILING SPACE. PROVIDE nLight, #nPP16-D-EFP.

LIGHTING SHEET NOTES

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH INSTALLATION.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
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7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
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9. CONTRACTOR SHALL PROVIDE ALL BACKING BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
13. GRAPHICS / SIGNAGE: VERIFY & PROVIDE CONNECTION TO SIGNAGE PER VENDOR'S SHOP DRAWINGS. VERIFY SIGN LOCATION, MOUNTING ELEVATION AND BRANCH CIRCUIT REQUIREMENTS PRIOR TO ROUGH-IN.
14. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.
15. PROVIDE ALL REQUIRED DEVICE COVER PLATES..

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT — Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

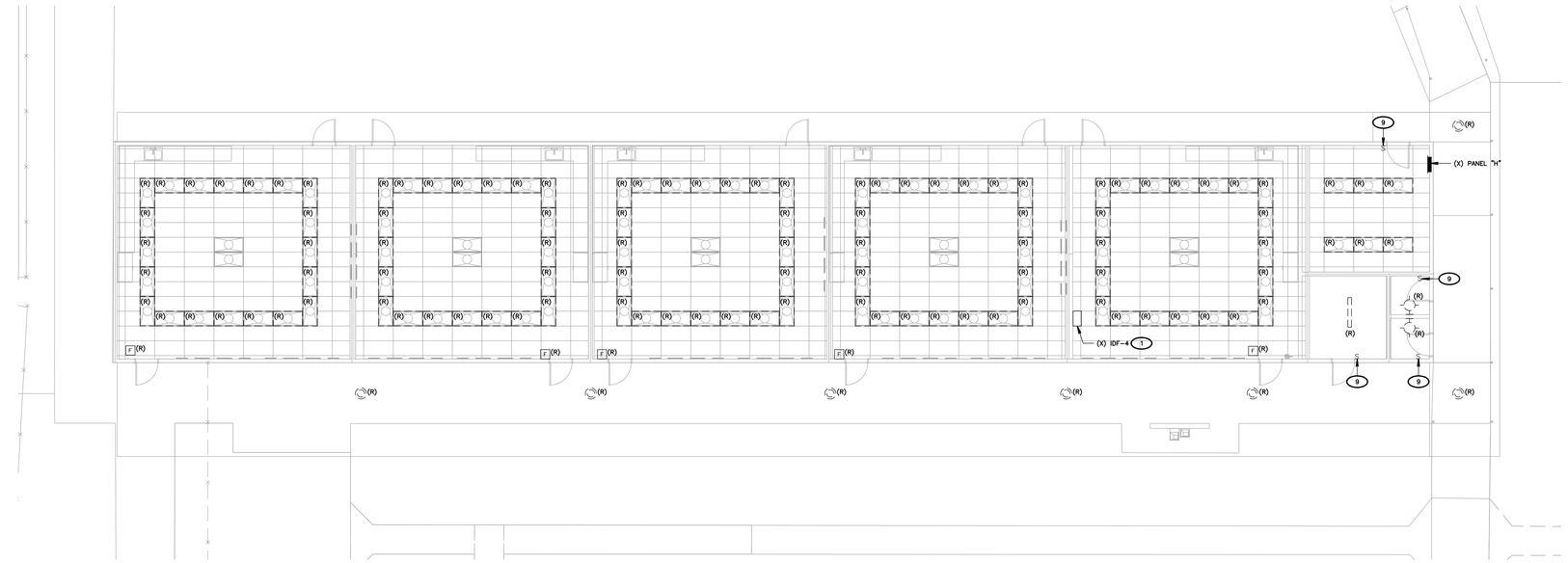
BUILDING D LIGHTING DEMOLITION/LIGHTING PLAN

SHEET NUMBER

PHASE III

E402

DSA SUBMITTAL SET



1 BUILDING E ELECTRICAL DEMOLITION PLAN

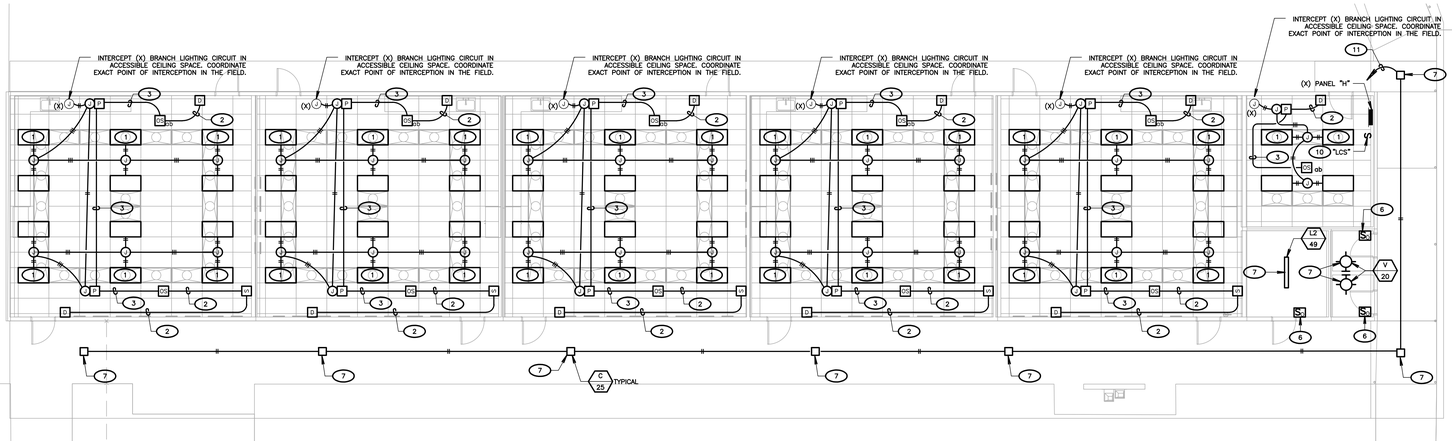
SCALE: 1/8"=1'-0"

DEMOLITION LEGEND	
(X)	EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.
(R)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED.
(RP)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE, IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION.
(RL)	RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.

ELECTRICAL DEMOLITION PLAN NOTES

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1 PROTECT IN PLACE



2 BUILDING E LIGHTING PLAN

SCALE: 1/8"=1'-0"

LIGHTING SHEET NOTES

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH INSTALLATION.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
4. 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED.
5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL PROVIDE ALL BACKING BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
13. GRAPHICS / SIGNAGE: VERIFY & PROVIDE CONNECTION TO SIGNAGE PER VENDOR'S SHOP DRAWINGS. VERIFY SIGN LOCATION, MOUNTING ELEVATION AND BRANCH CIRCUIT REQUIREMENTS PRIOR TO ROUGH-IN.
14. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.
15. PROVIDE ALL REQUIRED DEVICE COVER PLATES..

KEYNOTES

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. LIGHT FIXTURE LOCATED IN DAYLIT ZONE SHALL BE CONTROLLED BY SENSOR W/DAYLIGHT CONTROL.
2. PROVIDE 1" C. EMT TO ACCESSIBLE CEILING SPACE W/PLASTIC BUSHING(S). PROVIDE ALL REQUIRED PRE-TERMINATED nLIGHT CAT5 CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
3. PROVIDE PRE-TERMINATED nLIGHT CAT5 CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. LOW VOLTAGE CABLING SHALL BE ROUTED ON J-HOOKS IN ACCESSIBLE CEILING SPACE.
4. INTERCEPT EXISTING RESTROOM BRANCH LIGHTING CIRCUIT HOT & NEUTRAL.
5. PROVIDE CEILING MOUNT OCCUPANCY SENSOR. SENSOR SWITCH, #CWH-PDT-10. SET TIME DELAY TO 30 MINUTES. PROGRAM FOR AUTO-ON.
6. PROVIDE WALL SWITCH OCCUPANCY SENSOR. SENSOR SWITCH, #WSX-PDT-WH.
7. CONNECT LIGHT FIXTURE TO EXISTING BRANCH CIRCUIT AT SAME LOCATION OF REMOVED LIGHT FIXTURE.
8. NOT USED
9. REMOVE SWITCH & REPLACE WITH OCCUPANCY SENSOR SWITCH. SEE LIGHTING PLAN.
10. LIGHTING CONTROL SWITCH, "LCS". PROVIDE TORK ASTRO-CLOCK TIME SWITCH. COORDINATE PROGRAMMING W/DISTRICT. TORK, #SS703Z.
11. PROVIDE ALL WORK & MATERIALS IN ORDER TO INTERCEPT EXISTING BRANCH CIRCUIT HOMERUN & RE-ROUTE TO EXISTING 120V BRANCH CIRCUIT VIA "LCS" IN CLASSROOM.
12. BLANK OFF SWITCH.

LIGHTING LEGEND

- D — PROVIDE nLIGHT, #nPODM-2P-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- S — PROVIDE nLIGHT, #nPODM-4S-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TEACHERS STATION. VERIFY EXACT LOCATION W/ARCH.
- OS — OCCUPANCY SENSOR WITH DAYLIGHT CONTROL, CEILING MOUNTED. PROVIDE nLIGHT, #nCMPDT-10-RJB-ADCX. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- OS — OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE nLIGHT, #nCMPDT-10-RJB. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- F — PROVIDE POWER/RELAY PACK IN ACCESSIBLE CEILING SPACE. PROVIDE nLIGHT, #nPP16-D-EFP.

AGENCY INFORMATION:

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DATE: 03/27/2020

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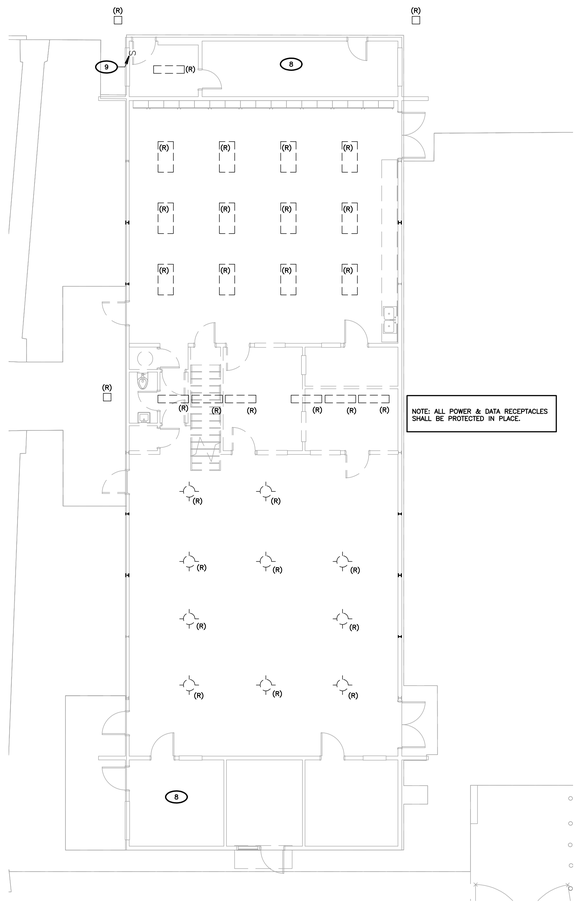


1 BUILDING H LIGHTING DEMOLITION PLAN
SCALE: 1/8"=1'-0"

ELECTRICAL DEMOLITION FOR REMODELING

EXAMINATION:
OBTAIN RECORD DRAWINGS / AS-BUILTS FROM OWNER. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS SHOWN ON RECORD DRAWINGS.

VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.

DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO OWNER AND ARCHITECT/ENGINEER BEFORE DISTURBING EXISTING INSTALLATION.

BEGINNING OF DEMOLITION MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.

PREPARATION
DISCONNECT AND MAKE SAFE ALL ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

COORDINATE ELECTRICAL SERVICE OUTAGES WITH OWNER'S REPRESENTATIVE.

PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN REQUIRED EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.

EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AT LEAST 72 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA WHEN OUTAGE AFFECTS BUSINESS OPERATION.

EXISTING FIRE ALARM SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE.

EXISTING TELEPHONE SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE.

EXISTING SECURITY SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE.

DEMOLITION AND EXTENSION OF EXISTING WORK
DEMOLISH AND EXTEND EXISTING ELECTRICAL WORK UNDER PROVISIONS OF THIS SECTION.

REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND RE-LABEL DEVICES AS SPARES.

REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.

DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.

DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.

DISCONNECT AND REMOVE ABANDONED CONDUIT.

REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.

MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, AND IN COMPLIANCE WITH NEW PROJECT SPECIFICATIONS.

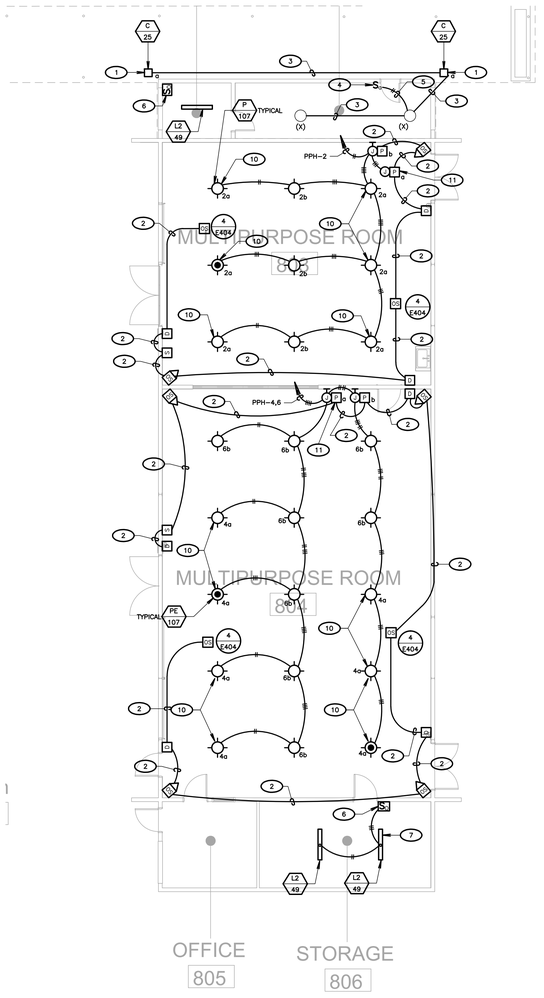
MODIFY EXISTING AS-BUILT DRAWINGS TO NOTE CHANGES.

CLEANING AND REPAIR
CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED.

PANELBOARDS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT.

LUMINAIRES: REMOVE EXISTING LUMINAIRES, WHERE SCHEDULED TO REMAIN, FOR CLEANING. USE MILD DETERGENT TO CLEAN ALL EXTERIOR AND INTERIOR SURFACES; RINSE WITH CLEAN WATER AND WIPE DRY. REPLACE LAMPS, BALLASTS, AND BROKEN ELECTRICAL PARTS.

INSTALLATION
INSTALL RELOCATED MATERIALS AND AS REQUIRED BY THIS SECTION AND OWNER'S REPRESENTATIVE.



2 BUILDING H LIGHTING PLAN
SCALE: 1/8"=1'-0"

LIGHTING SHEET NOTES

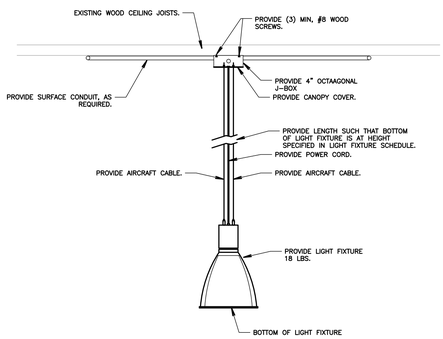
1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH INSTALLATION.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
4. 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED.
5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL PROVIDE ALL BACKING BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
13. GRAPHICS / SIGNAGE: VERIFY & PROVIDE CONNECTION TO SIGNAGE PER VENDOR'S SHOP DRAWINGS. VERIFY SIGN LOCATION, MOUNTING ELEVATION AND BRANCH CIRCUIT REQUIREMENTS PRIOR TO ROUGH-IN.
14. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.
15. PROVIDE ALL REQUIRED DEVICE COVER PLATES..

KEYNOTES (BLDG H)
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

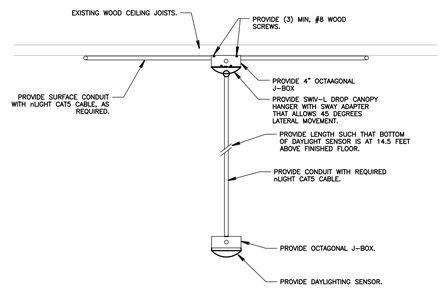
1. REMOVE EXISTING LIGHT FIXTURE AT THIS LOCATION. PROVIDE LIGHT FIXTURE & RECONNECT TO EXISTING BRANCH CIRCUIT.
2. PROVIDE 3/4" C. EMT. PROVIDE ALL REQUIRED PRE-TERMINATED #LIGHT CAT5 CABLES & CONNECT DEVICES. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED CABLE LENGTHS. CONTRACTOR SHALL WALK JOB WITH BCSD REPRESENTATIVE IN ORDER TO DETERMINE EXACT ROUTING OF EXPOSED SURFACE MOUNTED CONDUIT PRIOR TO STARTING CONSTRUCTION.
3. EXISTING CONDUIT & CONDUCTORS. PROTECT IN PLACE.
4. LIGHTING CONTROL SWITCH, "LCS". PROVIDE TORK ASTRO-CLOCK TIME SWITCH. COORDINATE PROGRAMMING W/DISTRICT. TORK, #SS703Z.
5. PROVIDE ALL WORK & MATERIALS IN ORDER TO RE-ROUTE EXISTING EXTERIOR LIGHTING BRANCH CIRCUIT THRU TIME SWITCH.
6. PROVIDE WALL SWITCH OCCUPANCY SENSOR. SENSOR SWITCH, #WSX-PDT-WH.
7. CONNECT LIGHT FIXTURE TO EXISTING BRANCH CIRCUIT AT SAME LOCATION OF REMOVED LIGHT FIXTURE.
8. PROTECT EXISTING LIGHTING IN PLACE.
9. REMOVE SWITCH & REPLACE WITH OCCUPANCY SENSOR SWITCH. SEE LIGHTING PLAN.
10. LIGHT FIXTURE SHALL BE CONTROLLED BY DAYLIGHT PHOTOSENSOR.
11. POWER PACK DEDICATED FOR DAYLIGHTING CONTROL.

LIGHTING LEGEND (BLDG H)

- D — PROVIDE #LIGHT, #nPODM-2P-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- S — PROVIDE #LIGHT, #nPODM-4S-DX-XX. VERIFY COLOR W/ARCH PRIOR TO ORDERING. PROVIDE 1-GANG J-BOX & MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. TEACHERS STATION. VERIFY EXACT LOCATION W/ARCH.
- VS — CORNER MOUNT OCCUPANCY SENSOR. PROVIDE #LIGHT, #nWVPDT-16. MOUNT AT 9FT AFF PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE RJ-45 SPLITTER.
- F — PROVIDE POWER/RELAY PACK IN ACCESSIBLE CEILING SPACE. PROVIDE #LIGHT, #nPP16-D-EFP.
- OS — OCCUPANCY SENSOR WITH DAYLIGHT CONTROL, CEILING MOUNTED. PROVIDE #LIGHT, #nCMPDT-10-RJB-ADCK. MOUNT TO J-BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.



3 TYPICAL PENDANT LIGHT MOUNTING DETAIL
SCALE: NOT TO SCALE



4 TYPICAL DAY LIGHT SENSOR MOUNTING DETAIL
SCALE: NOT TO SCALE

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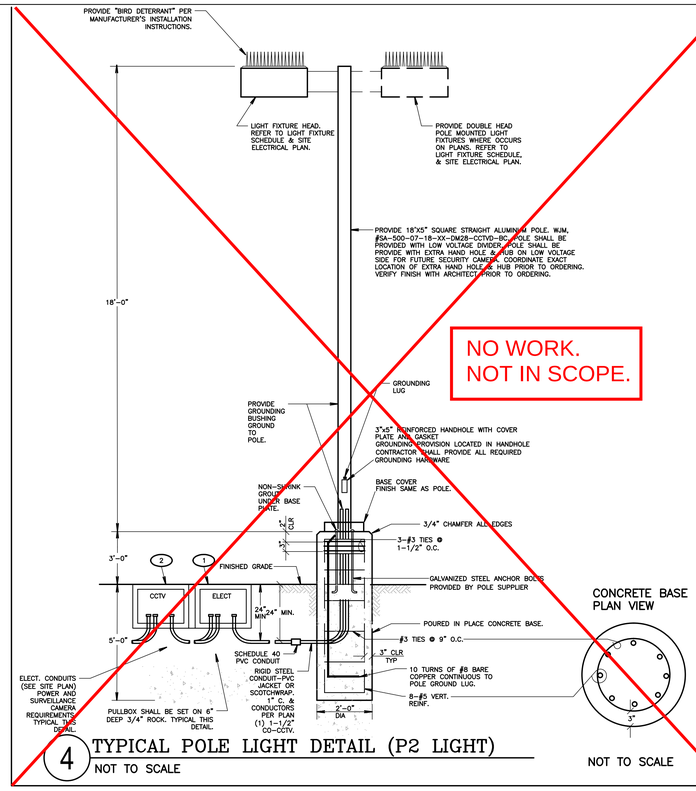
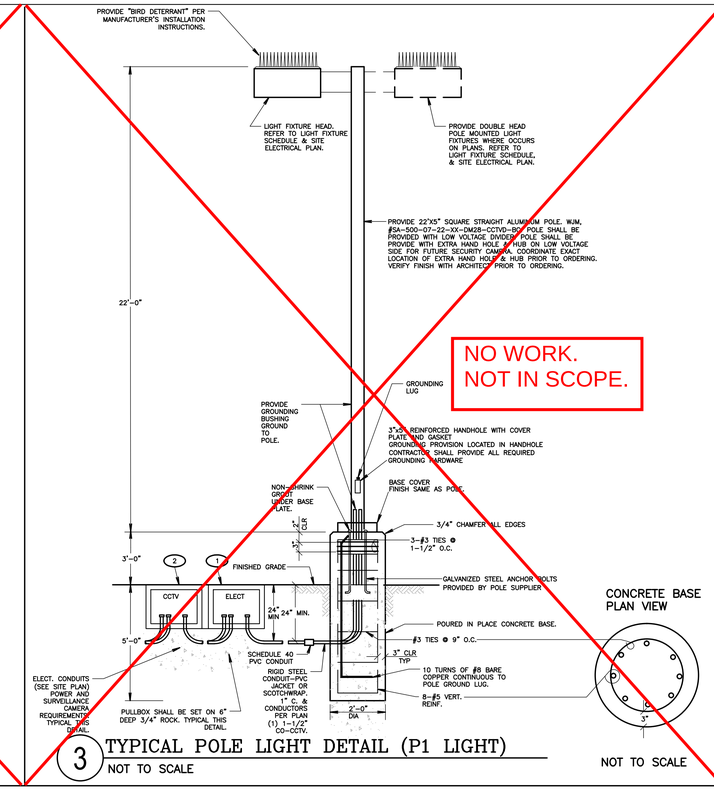
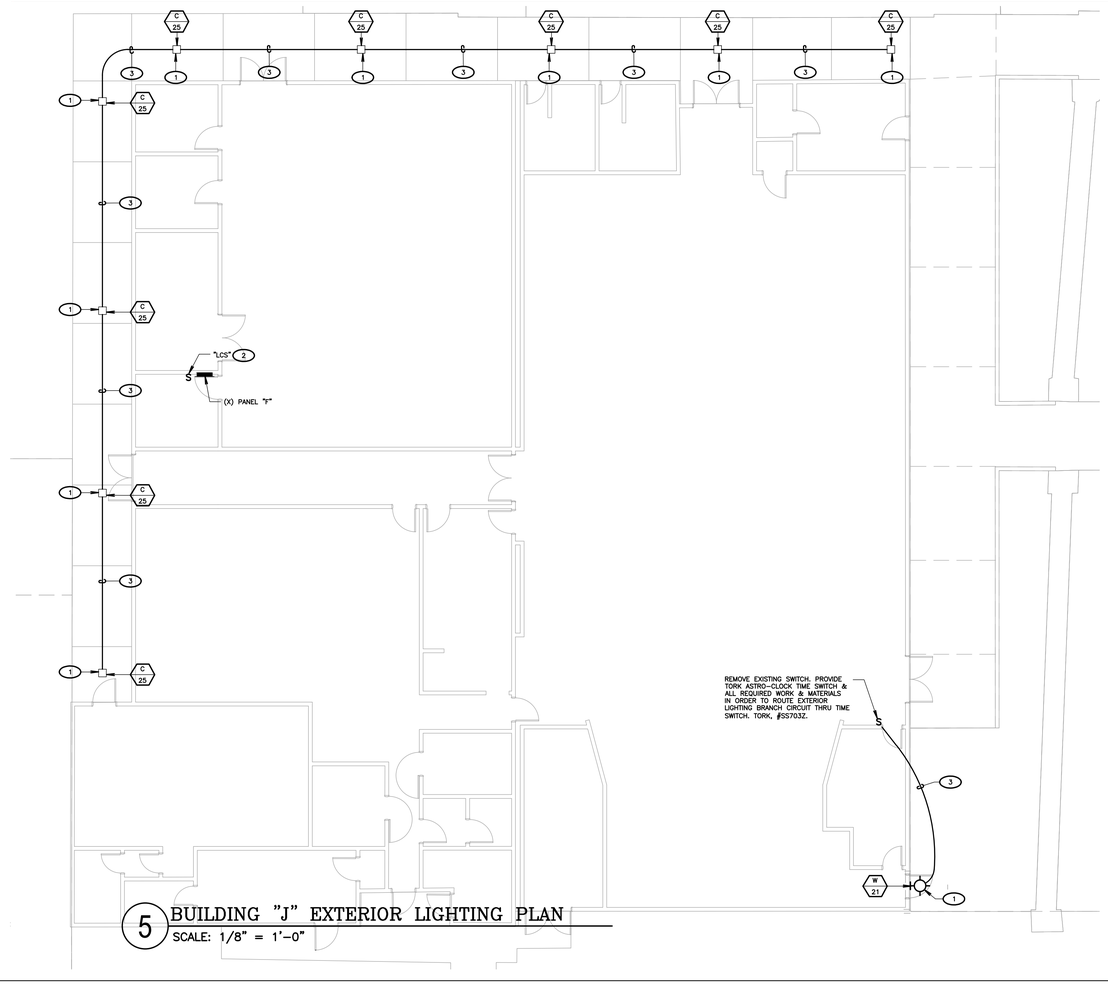


4 TYPICAL POLE LIGHT DETAIL (P2 LIGHT)
NOT TO SCALE



3 TYPICAL POLE LIGHT DETAIL (P1 LIGHT)
NOT TO SCALE



5 BUILDING "J" EXTERIOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

KEY NOTES

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. REMOVE EXISTING LIGHT FIXTURE AT THIS LOCATION. PROVIDE LIGHT FIXTURE & RECONNECT TO EXISTING BRANCH CIRCUIT.
2. REMOVE EXISTING TORK TIMER AT THIS LOCATION. PROVIDE TORK ASTRO-CLOCK TIME SWITCH & ALL REQUIRED WORK & MATERIALS IN ORDER TO ROUTE EXTERIOR LIGHTING BRANCH CIRCUIT THRU TIME SWITCH. TORK, #SS703Z.
3. EXISTING CONDUIT & CONDUCTORS. PROTECT IN PLACE.

LIGHT FIXTURE SCHEDULE

TYPE	WATTS	No	LAMPS TYPE	VOLTS 208	VOLTS 120	VOLTS 277	VOLTS 240	MOUNTING RECESS	MOUNTING SURF	MOUNTING PEND	MOUNTING WALL	MOUNTING SUSP	MOUNTING GRND	MOUNTING POLE	MANUFACTURER	CATALOG No.	REMARKS
L1	53		LED		●		●								LITHONIA	CPANL-2X4-40/50 60LM-40K-M2	2X4 FLAT PANEL, 4,000K 6,000LM [1]
L1E	53		LED		●		●								LITHONIA	CPANL-2X4-40/50 60LM-40K-M2 PS1055CPFMCEMI	2X4 FLAT PANEL 4,000K, 6000LM BATTERY PACK [1] [3]
~~P1~~	~~270~~	~~1~~	~~LED~~		~~●~~									~~●~~	~~BEACON~~	~~VPL-64L-135-4K7 SR-UNV-XX-BSP~~	~~DOUBLE HEAD VIPER LARGE 4,000K~~ [V] [4]
~~P2~~	~~160~~	~~1~~	~~LED~~		~~●~~									~~●~~	~~BEACON~~	~~VPS-36L-80-4K7 4-UNV-XX-BSP~~	~~DOUBLE HEAD VIPER SMALL 4,000K~~ [V] [4]
P	107		LED		●						●				DMF LIGHTING	DCP9-CM-09-35-XX-D-DCPS-R-16-P-FR	PENDANT 3,500K [2] [1]
L1S	53		LED		●						●				LITHONIA	CPANL-2X4-40/50 60LM-40K-M2-2X4CTMK	
L2	49		LED		●						●				KENALL	MLHA8-48-F-MW-CP-1-45L40K-DCC-1-DV	4,000K [1]
L2E	49		LED		●						●				KENALL	MLHA8-48-F-MW-CP-1-45L40K-DCC-1-DV-LEL	4,000K [1]
C	25		LED		●						●				SYLVANIA	CANOPY-2A-025-UNV-D-840-12-S-5-BZ	EXTERIOR LIGHT 4,000K [1] [6] [5]
S	13		LED		●						●				KENALL	MS11CL-PP-XX 10L40K-DV-	4,000K [1] [9]
V	20		LED		●							●			PRUDENTIAL	P40-LED35-SO-2'-TMW-SAL-D1-SC-UNV-MW-HO	WALL VANITY 3,000K [1]
W	21		LED		●							●			RAB LIGHTING	SLIM-18-N-X	4,000K [1] [7]

LIGHTING FIXTURE SCHEDULE KEY NOTES

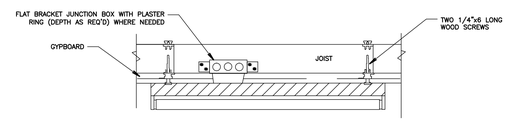
FIXTURE SCHEDULE NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING PROPER TYPES OF TRIMS FOR ALL RECESSED LIGHT FIXTURES TO FIT THE CEILING BEING INSTALLED.
2. ALL BALLASTS SHALL BE ELECTRONIC SOLID STATE.
3. FIXTURES TYPE IN CONTACT WITH INSULATION SHALL HAVE U.L. LISTED THERMAL BARRIER.
4. CONTRACTOR SHALL VERIFY THE TYPE OF CEILING BEFORE ORDERING NEW FIXTURES. CONTRACTOR IS FULLY RESPONSIBLE TO PROVIDE ALL MOUNTING BRACKETS TO FIT CEILING CONDITIONS AT NO EXTRA CHARGE TO THE OWNER.
5. SEE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CEILING CONFIGURATION.

FIXTURE SCHEDULE NOTES:

LIGHTING FIXTURE SCHEDULE KEY NOTES
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. CONTRACTOR SHALL VERIFY COLOR/FINISH WITH ARCHITECT PRIOR TO ORDERING.
2. BOTTOM OF LIGHT FIXTURE SHALL BE SUSPENDED AT 13.5 FT. AFF.
3. PROVIDE ALL REQUIRED WORK & MATERIALS IN ORDER TO MAKE CONNECTIONS & INSTALL FULLY FUNCTIONAL BATTERY PACK.
4. POLE HAS DIVIDER FOR FUTURE SECURITY CAMERA WIRING. CONTRACTOR SHALL COORDINATE EXACT ORIENTATION OF POLE W/BCSD PRIOR TO INSTALLATION. POLE SHALL BE PROVIDED WITH EXTRA HAND HOLE & HUB ON LOW VOLTAGE SIDE FOR FUTURE SECURITY CAMERAS. COORDINATE EXACT LOCATION OF EXTRA HAND HOLE & HUB PRIOR TO ORDERING.
5. PROVIDE MOUNTING PLATE & ALL WORK & MATERIALS IN ORDER TO INSTALL LIGHT FIXTURE. SYLVANIA, #CANOPY3A/MTGPLATE/16/BZ.
6. LIGHT FIXTURE WEIGHT = 7.3 LBS.
7. LIGHT FIXTURE WEIGHT = 4.3 LBS. PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. NOT USED.
9. REFER TO STRUCTURAL FOR ATTACHMENT TO CANOPY.



1 SURFACE MOUNTED LIGHTING FIXTURE
SCALE: NOT TO SCALE

NOTE: SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR CONNECTION OF LIGHT FIXTURE SUPPORT WIRES AND BRACING WIRE CONNECTIONS TO ROOF FRAMING/STRUCTURE.

ALL LIGHTING FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100% OF THE LIGHTING FIXTURE WEIGHT ACTING IN ANY DIRECTION.

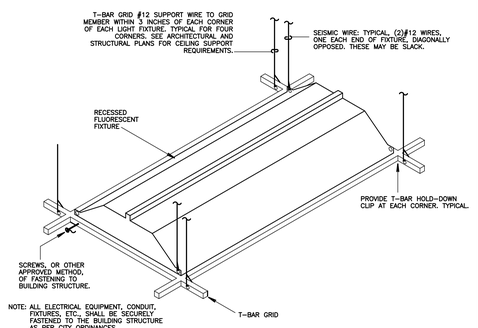
WHEN "INTERMEDIATE" SYSTEMS ARE USED, #12 GAUGE HANGERS SHALL BE ATTACHED TO THE GRID MEMBERS WITHIN 3" OF EACH CORNER OF EACH FIXTURE. TANDEM FIXTURES MAY UTILIZE COMMON WIRES.

WHERE "HEAVY DUTY" SYSTEMS ARE USED, SUPPLEMENTAL HANGERS ARE NOT REQUIRED IF A 48" MODULAR HANGER PATTERN IS FOLLOWED. WHEN CROSS RUNNERS ARE USED WITHOUT SUPPLEMENTAL HANGERS TO SUPPORT LIGHTING FIXTURES, THESE CROSS RUNNERS MUST PROVIDE THE SAME CARRYING CAPACITY AS THE MAIN RUNNER.

LIGHTING FIXTURES WEIGHING LESS THAN 56 POUNDS SHALL HAVE, IN ADDITION TO THE REQUIREMENTS OUTLINED ABOVE, TWO #12 GAUGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.

LIGHTING FIXTURES WEIGHING 56 POUNDS OR MORE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.

PENDANT-HUNG LIGHTING FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING #9 GAUGE WIRE OR APPROVED ALTERNATE SUPPORT WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.



2 LIGHT FIXTURE TROFFER SUPPORT DETAIL
NOT TO SCALE

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT · Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

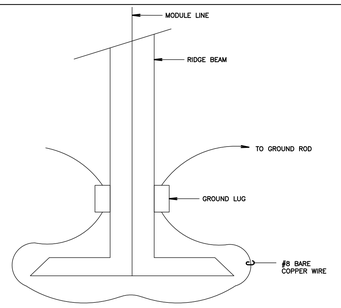
LIGHT FIXTURE SCHEDULE, LIGHTING DETAILS

SHEET NUMBER

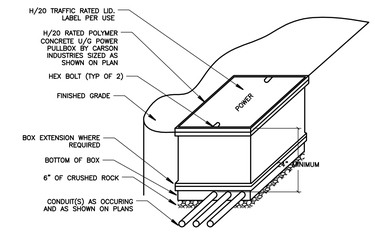
PHASE III

E405

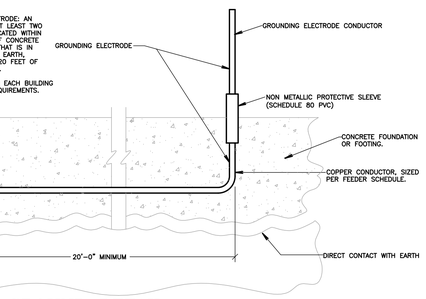
DSA SUBMITTAL SET



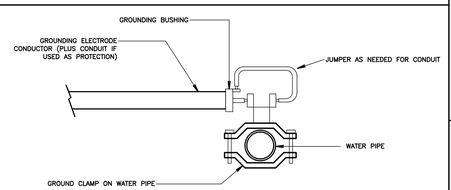
9 RELOCATABLE MODULE BONDING DETAIL
NOT TO SCALE



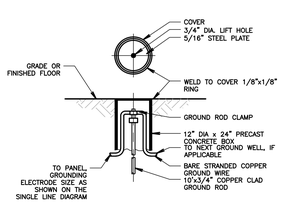
10 TYPICAL PULL BOX DETAIL
SCALE: NOT TO SCALE



11 UFER GROUND DETAIL
SCALE: NOT TO SCALE

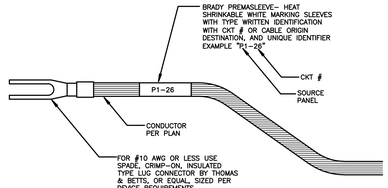


12 COLD WATER GROUND DETAIL
SCALE: NOT TO SCALE

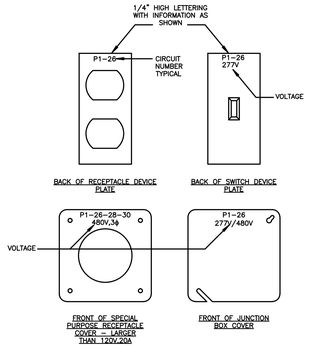


13 GROUND ROD DETAIL
SCALE: NOT TO SCALE

NOTE: CONTRACTOR SHALL PROVIDE CONDUCTOR LABELING TO ALL POWER FEEDERS, BRANCH CIRCUITS, CONTROLS CIRCUITS, COMMUNICATIONS CABLES, FIRE ALARM CABLING, AND SECURITY SYSTEM CONDUCTORS.



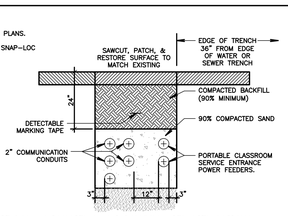
TYPICAL CONDUCTOR LABEL



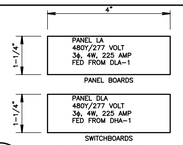
TYPICAL DEVICE COVER PLATE LABELING

6 TYPICAL LABELING DETAIL
SCALE: NOT TO SCALE

NOTES:
1. CONDUIT QUANTITIES AS INDICATED ON PLANS.
2. ALL CONDUITS SHALL BE ON CARLON SNAP–LOC SPACERS – 8'–0" ON CENTER.



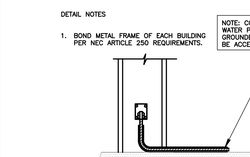
7 TYPICAL DUCT BANK SECTION
SCALE: NOT TO SCALE



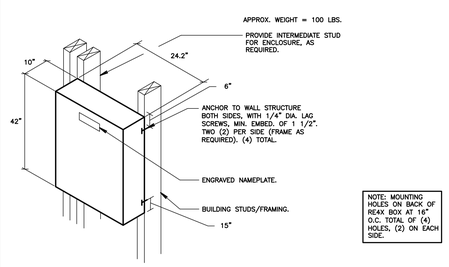
NOTE:
CONTRACTOR SHALL PROVIDE NAMEPLATES ON ALL ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, PANELBOARDS, FEEDER BREAKERS, PULLBOXES, GENERATORS, TRANSFER SWITCHES, DISCONNECTS, ETC.

IDENTIFICATION SHALL MATCH PROJECT SPECIFIC DETAILS

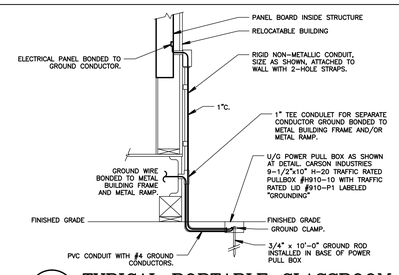
7A TYPICAL NAMEPLATE DETAILS
NOT TO SCALE



7B METAL FRAME GROUNDING DETAIL
SCALE: NOT TO SCALE



8 HUBBELL RE4X BOX MOUNTING DETAIL
NOT TO SCALE

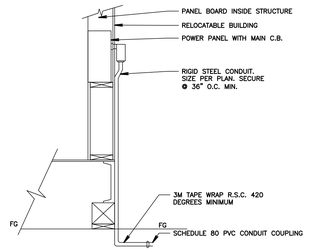


1. GROUND CONDUCTORS SHALL BE #4 COPPER
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME, IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10FT INTO THE SOIL IF AVAILABLE.
3. ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). PROVIDE #6 BONDING JUMPER BETWEEN FRAMES IN ACCESSIBLE AREA.
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ONE ADDITIONAL GROUND ROD, SEPARATED BY A MINIMUM OF 6', WITH CONDUCTORS AS SHOWN.
5. BOND ALL RAMP STEEL RAILING WITH A #6 COPPER SOLID BONDING JUMPER TO THE ELECTRICAL PANEL OR THE STEEL FRAME OF THE UNIT.
6. THE SITE INSPECTOR SHALL WITNESS THE GROUNDING TEST.

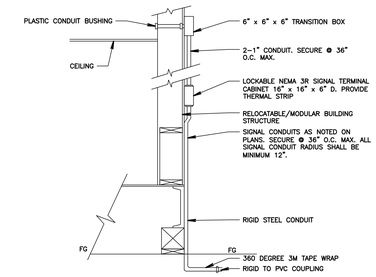
NOTE: PER DSA IR E–1
METAL MODULAR BUILDINGS: EACH BUILDING COMPONENT, INCLUDING STEEL RAMPS, MUST BE ELECTRICALLY BONDED TOGETHER IN A MANNER ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT (DSA).

ALL METAL BUILDING COMPONENTS MUST BE ELECTRICALLY BONDED TOGETHER, AND EACH BUILDING MUST BE INDEPENDENTLY GROUNDED. MULTIPLE BUILDINGS ARE NOT TO BE GROUNDED THROUGH THE ELECTRICAL SYSTEM. ALL GROUNDING SYSTEMS ARE TO BE TESTED WITH A MEGGER UNIT, OR IN AN OTHERWISE ACCEPTABLE MANNER. REFER TO THE 2004 OR 2007 CEC. SECTION 250.52 FOR SPECIFIC GROUNDING REQUIREMENTS.

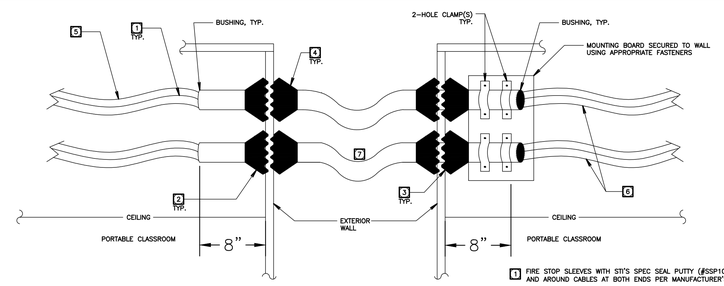
1 TYPICAL PORTABLE CLASSROOM GROUNDING DETAIL
SCALE: NOT TO SCALE



2 TYPICAL PORTABLE CLASSROOM POWER DETAIL
SCALE: NOT TO SCALE



3 TYPICAL PORTABLE CLASSROOM SIGNAL DETAIL
SCALE: NOT TO SCALE



1 FIRE STOP SLEEVES WITH STI'S SPEC SEAL PUTTY (#SSP100) OR EQUAL, IN AND AROUND CABLES AT BOTH ENDS PER MANUFACTURER'S DIRECTIONS.

2 1/2" BEAD 30–YEAR SILICONE CAULK (CLEAR) INTERIOR WALL TYPICAL. DO NOT BOLT/CLAMP THIS SIDE.

3 SILICONE CAULK PUSHED INTO BOTH WALL VOIDS FOR A WEATHERTIGHT SEAL.

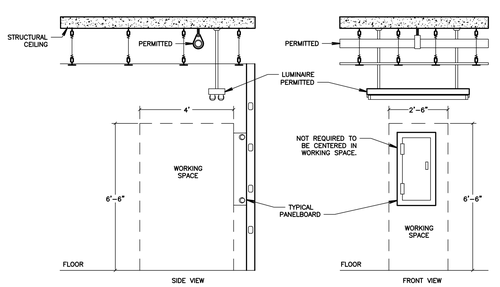
4 1/2" BEAD 50–YEAR SILICONE CAULK (CLEAR) EXTERIOR WALL TYPICAL.

5 CABLES TO BE SUPPORTED WITHIN 24" OF BUSHING. PROVIDE SLACK FOR 4" MIN. HORIZONTAL & VERTICAL MOVEMENT DUE TO SEISMIC.

6 MAINTAIN MINIMUM 2" BEND RADIUS FOR CABLES. PROVIDE SLACK FOR 4" MIN. HORIZONTAL & VERTICAL MOVEMENT DUE TO SEISMIC.

7 CONTRACTOR SHALL INSTALL LIQUID TIGHT SIDE BY SIDE W/ MINIMUM 2" SEPARATION. ENVIRONMENT WILL DICTATE BEST APPROACH. CONFIRM WITH AHJ PRIOR TO INSTALLATION.

4 TYPICAL CONDUIT EXPANSION DETAIL
NOT TO SCALE



5 TYPICAL PANELBOARD WORKING CLEARANCE
SCALE: NOT TO SCALE

AGENCY INFORMATION:

IDENTIFICATION STAMP
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APP. 03-120102 INC:
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DATE: 03/27/2020

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

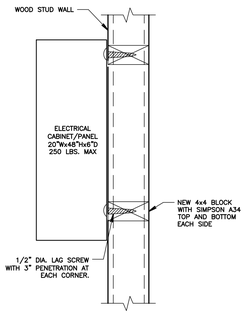
ELECTRICAL DETAILS SHEET #1

SHEET NUMBER

PHASE III

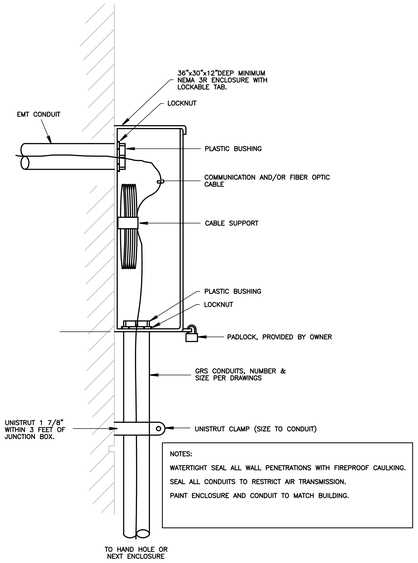
E500

DSA SUBMITTAL SET



6 SURFACE ELECTRICAL PANEL MOUNTING

SCALE: NOT TO SCALE



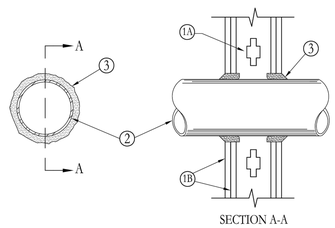
7 COMMUNICATIONS PULL BOX DETAIL

NOT TO SCALE

System No. W-L-1001

June 15, 2005

F Ratings – 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings – 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient – less than 1 CFM/sq ft
L Rating At 400 F – less than 1 CFM/sq ft

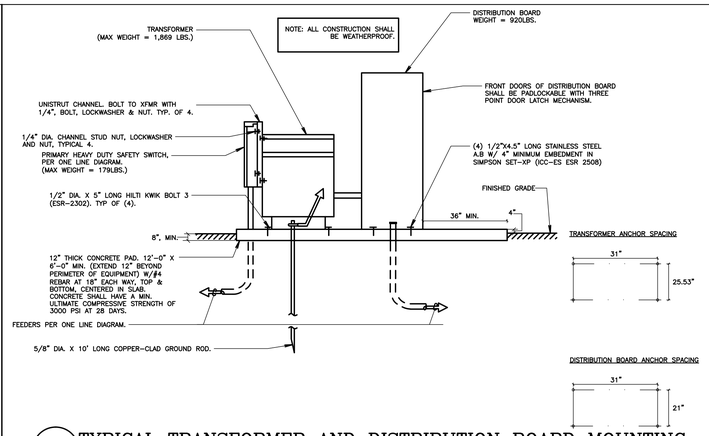


SECTION A-A

1. **Wall Assembly** – The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   - A. **Studs** – Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
   - B. **Gypsum Board*** – Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).
2. **Through Penetrant** – One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   - A. **Steel Pipe** – Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   - B. **Iron Pipe** – Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
   - C. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing
   - D. **Copper Tubing** – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
   - E. **Copper Pipe** – Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   - F. **Through Penetrating Product*** – **Flexible Metal Piping** – The following types of steel flexible metal gas piping may be used:
     1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
        OMEGA FLEX INC
     2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
        TITEFLEX CORP
        A BUNDY CO
     3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
        WARD MFG INC

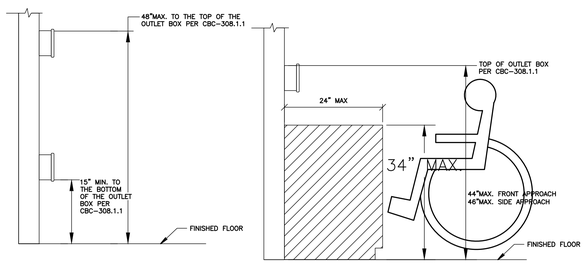
8 TYPICAL THROUGH PENETRATION FIRESTOP

SCALE: NOT TO SCALE



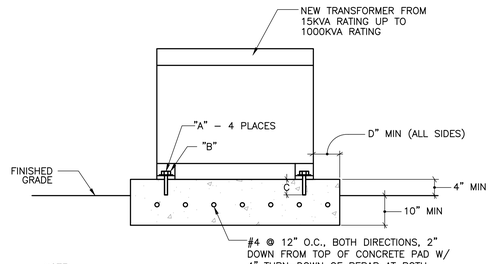
4 TYPICAL TRANSFORMER AND DISTRIBUTION BOARD MOUNTING

NOT TO SCALE



5 MOUNTING HEIGHT OVER OBSTRUCTION

NOT TO SCALE

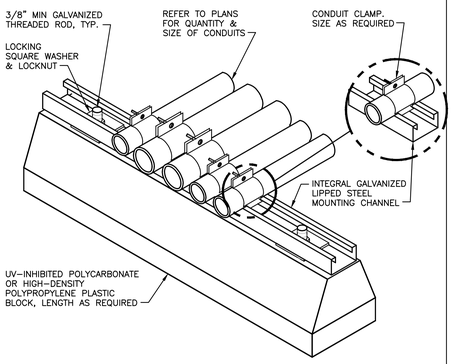


NOTE:
MINIMUM CONCRETE STRENGTH 3000 P.S.I. AT 28 DAYS.

HILTI KB IN STEEL ANCHOR BOLTS ICBO ESR-#1917 FOR CONCRETE PAD (FOR NEW DRY TRANSFORMER 15KVA TO 1000KVA)								
KVA RATING	"A" SIZE (DIA)	"B" TORQUE	"C" EMBEDMENT	"D" MIN. EDGE DISTANCE	STD THREAD LENGTH	EXTRA THREAD LENGTH	BOLT LENGTH MIN / MAX	WEIGHT
45KVA	1/2"	30 FTLB	3-1/2"	5"	1-1/4"	4"	2-1/4" / 7"	399 lbs.

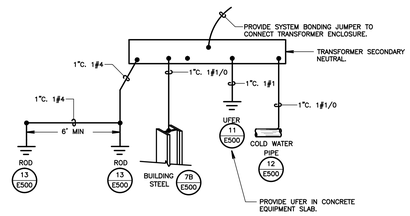
3 TRANSFORMER INSTALLATION (TH2)

SCALE: NOT TO SCALE



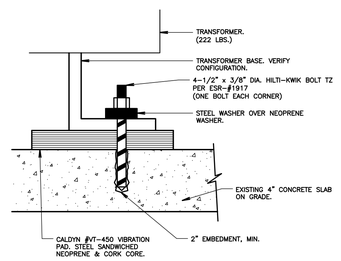
1 ROOF CONDUIT SUPPORT DETAIL

SCALE: NO SCALE



2 SEPARATELY DERIVED SYSTEM GROUNDING & BONDING

SCALE: NOT TO SCALE



2A TRANSFORMER MOUNTING DETAIL

SCALE: NOT TO SCALE

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

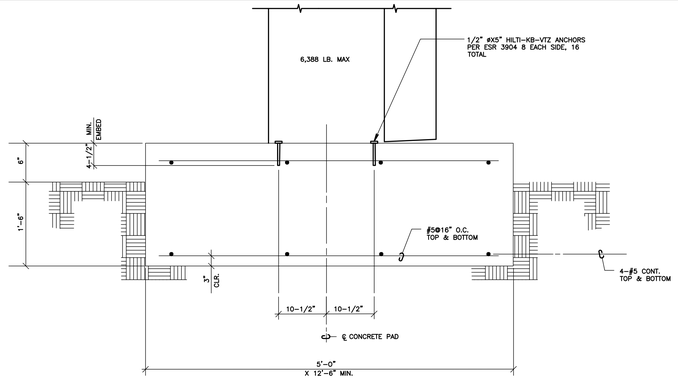
ELECTRICAL DETAILS SHEET #2

SHEET NUMBER

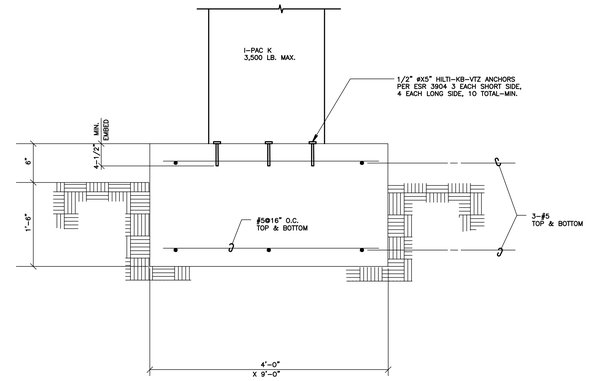
PHASE III

E501

DSA SUBMITTAL SET



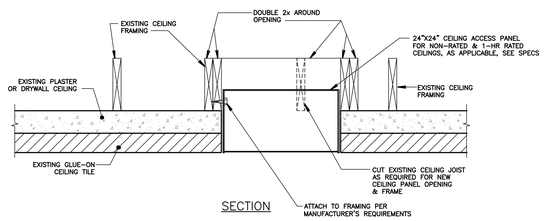
1 MAIN SWITCHBOARD, "MSB" ANCHORAGE DETAIL
SCALE: NOT TO SCALE



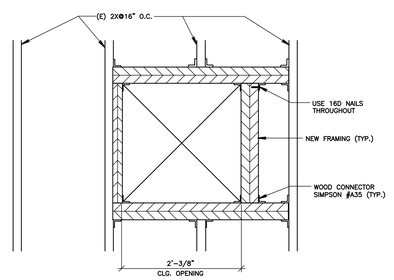
TYPICAL SECTION

2 I-PAC-K EQUIPMENT PAD DETAIL
SCALE: NOT TO SCALE

DETAIL A
PLASTER/DRYWALL CEILINGS



SECTION



TOP VIEW

DETAIL B
WOOD FRAMING CEILINGS

NOTE: FRAMING FOR CEILING ACCESS PANELS MAY VARY FOR VARIOUS EXISTING CEILINGS & FRAMING.

3 TYPICAL CEILING ACCESS PANEL INSTALLATION DETAIL
SCALE: NOT TO SCALE

AGENCY INFORMATION:

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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

ELECTRICAL DETAILS SHEET #3

SHEET NUMBER

PHASE III

E502

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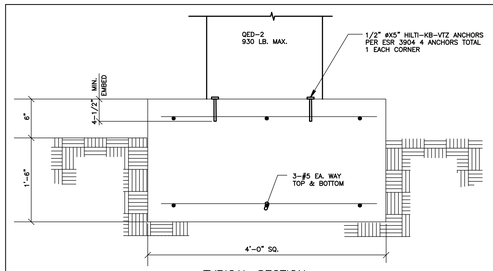
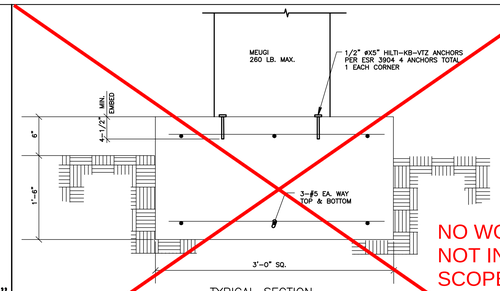


TYPICAL SECTION

TYPICAL DISTRIBUTION BOARD, "DBH"& ~~"DBL"~~ ANCHORAGE AND EQUIPMENT PAD DETAIL

2 SCALE: NOT TO SCALE



NO WORK. NOT IN SCOPE.

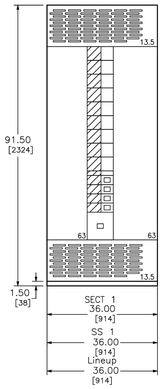
TYPICAL SECTION

TYPICAL METER PEDESTAL "MP" ANCHORAGE AND EQUIPMENT PAD DETAIL

1 SCALE: NOT TO SCALE

REV	DESCRIPTION	BY	DATE
–	----	--	--/--/--

No T-bus



SWITCHBOARD GENERAL NOTES – SERIES 2

PRODUCT DESCRIPTION & RATINGS

Power System Data
208Y/120V 3Ph 4W 60Hz / 3 Phase Wye
Solidly Grounded
System Short Circuit Current Rating: 42kA RMS
Incoming Section 1 Cable Through the Bottom Left of Lineup

Bus System Data
600A Silver Plated Copper Single Section with No Main Bus
(1) .25x.875 IN/6x22 mm Cu Ground Bus

Enclosure Data
Type 3R Free Standing
Exterior Paint Color: ANSI 49
Front Accessibility Only Required
Handling: Rollers
Rodent barriers
1.5H Corrosion Resist Base Channels

Estimated Shipping Weight
Shipping Split 1 915.00 lbs / 415.04 kgs
Complete Lineup 915.00 lbs / 415.04 kgs

Code Standards
U.L. Deadfront and suitable for use as Service Entrance when not more than six (6) disconnecting means are provided.

Rating Nameplates
ST1– Service Entrance – Section Bus 0A

PRODUCT INFORMATION

Wiring
All wiring to be Machine Tool Wire type

Instruction Bulletins
Reference 80043-055 For Handling, Installation, Anchoring, Inspection And Maintenance Information

Product Accessories/Options
Seismic Qualified

DUAL DIMENSIONS: INCHES MILLIMETERS

JOB NAME:	Ferranti Engineering	EQUIPMENT DESIGNATION:	DBL
JOB LOCATION:		EQUIPMENT TYPE:	QED-2 Switchboard
DRAWN BY:	(Q2C)	DRAWING TYPE:	GENERAL NOTES
ENGR:			SQUARE D
DATE:	November 18 2019		
DRAWING STATUS:	QUOTE	DWG#	FQ-1035634-35277377-01

PG 1 OF 2 REV –

REV	DESCRIPTION	BY	DATE
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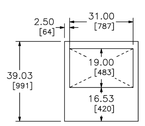
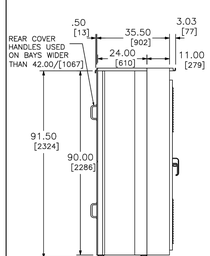
TYPICAL DISTRIBUTION BOARD, "DBL" SHOP DRAWINGS ELEVATION AND PLAN VIEW

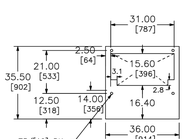
4 SCALE: NOT TO SCALE



TOP VIEW – FRONT



LEFT SIDE VIEW



FLOOR PLAN – FRONT

NOTE: ALL DEVICES REQUIRING DRILLING OR INSERTION IN MOUNTING PAD SUCH AS CONDUIT, ANCHORING STUDS, SLEEVE INSERTS, ETC. SHOULD BE INSTALLED BEFORE SETTING EQUIPMENT IN PLACE.

DUAL DIMENSIONS: INCHES MILLIMETERS

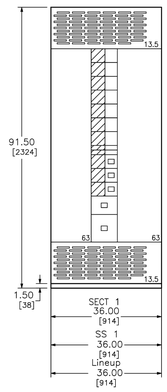
NOTE:
A MINIMUM OF 2.00/[51] CLEARANCE BEHIND THE SWITCHBOARD IS REQUIRED FOR TOP COVER OVERHANG.

JOB NAME:	Ferranti Engineering	EQUIPMENT DESIGNATION:	DBL
JOB LOCATION:		EQUIPMENT TYPE:	QED-2 Switchboard
DRAWN BY:	(Q2C)	DRAWING TYPE:	SIDE, TOP VIEW & FLOOR PLAN
ENGR:			SQUARE D
DATE:	November 18 2019		
DRAWING STATUS:	QUOTE	DWG#	FQ-1035634-35277377-01

PG 2 OF 2 REV –

REV	DESCRIPTION	BY	DATE
–	----	--	--/--/--

No T-bus



SWITCHBOARD GENERAL NOTES – SERIES 2

PRODUCT DESCRIPTION & RATINGS

Power System Data
480Y/277V 3Ph 4W 60Hz / 3 Phase Wye
Solidly Grounded
System Short Circuit Current Rating: 42kA RMS
Incoming Section 1 Cable Through the Bottom Left of Lineup

Bus System Data
600A Silver Plated Copper Single Section with No Main Bus
(1) .25x.875 IN/6x22 mm Cu Ground Bus

Enclosure Data
Type 3R Free Standing
Exterior Paint Color: ANSI 49
Front Accessibility Only Required
Handling: Rollers
Rodent barriers
1.5H Corrosion Resist Base Channels

Estimated Shipping Weight
Shipping Split 1 930.00 lbs / 421.85 kgs
Complete Lineup 930.00 lbs / 421.85 kgs

Code Standards
U.L. Deadfront and suitable for use as Service Entrance when not more than six (6) disconnecting means are provided.

Rating Nameplates
ST1– Service Entrance – Section Bus 0A

PRODUCT INFORMATION

Wiring
All wiring to be Machine Tool Wire type

Instruction Bulletins
Reference 80043-055 For Handling, Installation, Anchoring, Inspection And Maintenance Information

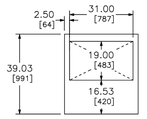
Product Accessories/Options
Seismic Qualified

DUAL DIMENSIONS: INCHES MILLIMETERS

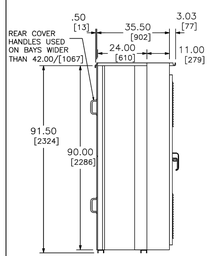
JOB NAME:	Ferranti Engineering	EQUIPMENT DESIGNATION:	600A DB
JOB LOCATION:		EQUIPMENT TYPE:	QED-2 Switchboard
DRAWN BY:	(Q2C)	DRAWING TYPE:	GENERAL NOTES
ENGR:			SQUARE D
DATE:	November 12 2019		
DRAWING STATUS:	QUOTE	DWG#	FQ-1035634-34958144-01

PG 1 OF 2 REV –

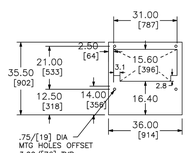
REV	DESCRIPTION	BY	DATE
–	----	--	--/--/--



TOP VIEW – FRONT



LEFT SIDE VIEW



FLOOR PLAN – FRONT

NOTE: ALL DEVICES REQUIRING DRILLING OR INSERTION IN MOUNTING PAD SUCH AS CONDUIT, ANCHORING STUDS, SLEEVE INSERTS, ETC. SHOULD BE INSTALLED BEFORE SETTING EQUIPMENT IN PLACE.

DUAL DIMENSIONS: INCHES MILLIMETERS

NOTE:
A MINIMUM OF 2.00/[51] CLEARANCE BEHIND THE SWITCHBOARD IS REQUIRED FOR TOP COVER OVERHANG.

JOB NAME:	Ferranti Engineering	EQUIPMENT DESIGNATION:	600A DB
JOB LOCATION:		EQUIPMENT TYPE:	QED-2 Switchboard
DRAWN BY:	(Q2C)	DRAWING TYPE:	SIDE, TOP VIEW & FLOOR PLAN
ENGR:			SQUARE D
DATE:	November 12 2019		
DRAWING STATUS:	QUOTE	DWG#	FQ-1035634-34958144-01

PG 2 OF 2 REV –

TYPICAL DISTRIBUTION BOARD, "DBH" SHOP DRAWINGS ELEVATION AND PLAN VIEW

3 SCALE: NOT TO SCALE

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
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DATE: 03/27/2020

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REGISTERED PROFESSIONAL ENGINEER DALE FERRANTI No. 17974 EXP. 06/30/21 ELECTRICAL STATE OF CALIFORNIA

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ibigroup.com

BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT – Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

ELECTRICAL DETAILS SHEET #4

SHEET NUMBER

PHASE III

E503

DSA SUBMITTAL SET

REV	DESCRIPTION	BY	DATE
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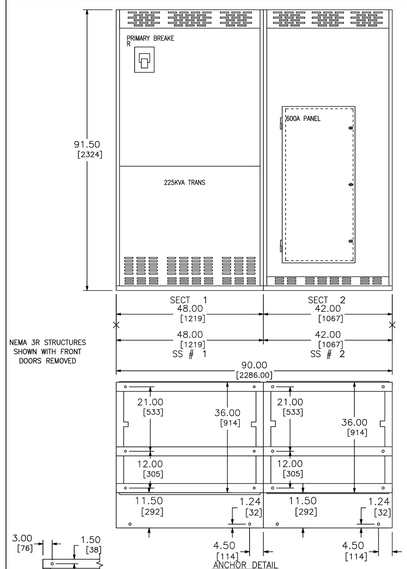
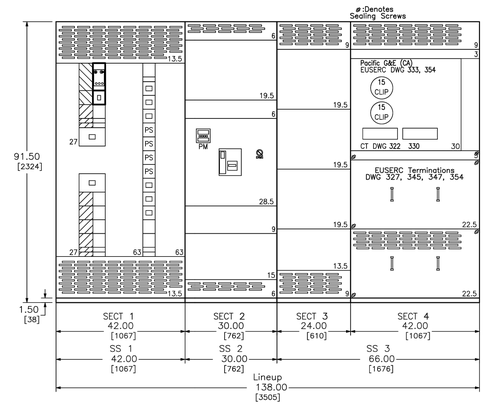


DUAL DIMENSIONS: INCHES MILLIMETERS

JOB NAME: Ferranti Engineering	EQUIPMENT DESIGNATION: IPAC 225KVA
JOB LOCATION:	EQUIPMENT TYPE: INTEGRATED EQUIPMENT
DRAWN BY: (02C)	DRAWING TYPE: ELEVATION
ENGR:	SQUARE D by Schneider Electric
DATE: October 27 2019	
DRAWING STATUS: QUOTE NOT FOR CONSTRUCTION	DWG# FQ-1035634-33921420-01 PG 1 OF 3 REV –

REV	DESCRIPTION	BY	DATE
–	----	--	--/--/--



DUAL DIMENSIONS: INCHES MILLIMETERS

JOB NAME: Ferranti Engineering	EQUIPMENT DESIGNATION: OWENS INT. MSB
JOB LOCATION:	EQUIPMENT TYPE: QED-2 Switchboard
DRAWN BY: (02C)	DRAWING TYPE: ELEVATION VIEW
ENGR:	SQUARE D by Schneider Electric
DATE: November 18 2019	
DRAWING STATUS: QUOTE	DWG# FQ-1035634-33373275-01 PG 1 OF 3 REV –

REV	DESCRIPTION	BY	DATE
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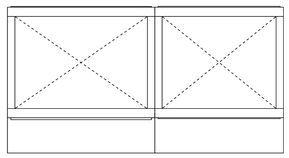
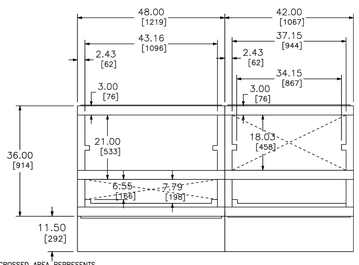


TOP VIEW



FLOOR VIEW

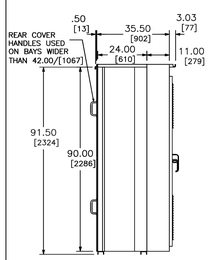
DUAL DIMENSIONS: INCHES MILLIMETERS

JOB NAME: Ferranti Engineering	EQUIPMENT DESIGNATION: IPAC 225KVA
JOB LOCATION:	EQUIPMENT TYPE: INTEGRATED EQUIPMENT
DRAWN BY: (02C)	DRAWING TYPE: ELEVATION
ENGR:	SQUARE D by Schneider Electric
DATE: October 27 2019	
DRAWING STATUS: QUOTE NOT FOR CONSTRUCTION	DWG# FQ-1035634-33921420-01 PG 2 OF 3 REV –

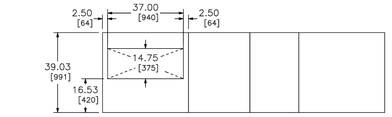
2 TYPICAL I-PAC K SHOP DRAWINGS ELEVATION AND PLAN VIEW

SCALE: NOT TO SCALE

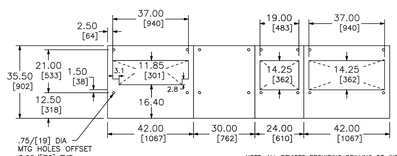
REV	DESCRIPTION	BY	DATE
–	----	--	--/--/--



LEFT SIDE VIEW



TOP VIEW – FRONT



NOTE: ALL DEVICES REQUIRING DRILLING OR INSERTION IN MOUNTING PAD SUCH AS CONDUIT, ANCHORING STUDS, SLEEVE INSERTS, ETC. SHOULD BE INSTALLED BEFORE SETTING EQUIPMENT IN PLACE.

FLOOR PLAN – FRONT

NOTE: A MINIMUM OF 2.00/[51] CLEARANCE BEHIND THE SWITCHBOARD IS REQUIRED FOR TOP COVER OVERHANG.

DUAL DIMENSIONS: INCHES MILLIMETERS

JOB NAME: Ferranti Engineering	EQUIPMENT DESIGNATION: OWENS INT. MSB
JOB LOCATION:	EQUIPMENT TYPE: QED-2 Switchboard
DRAWN BY: (02C)	DRAWING TYPE: SIDE, TOP VIEW & FLOOR PLAN
ENGR:	SQUARE D by Schneider Electric
DATE: November 18 2019	
DRAWING STATUS: QUOTE	DWG# FQ-1035634-33373275-01 PG 2 OF 3 REV –

1 TYPICAL MAIN SWITCBOARD "MSB" SHOP DRAWINGS ELEVATION AND PLAN VIEW

SCALE: NOT TO SCALE

AGENCY INFORMATION:

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DATE: 03/27/2020

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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

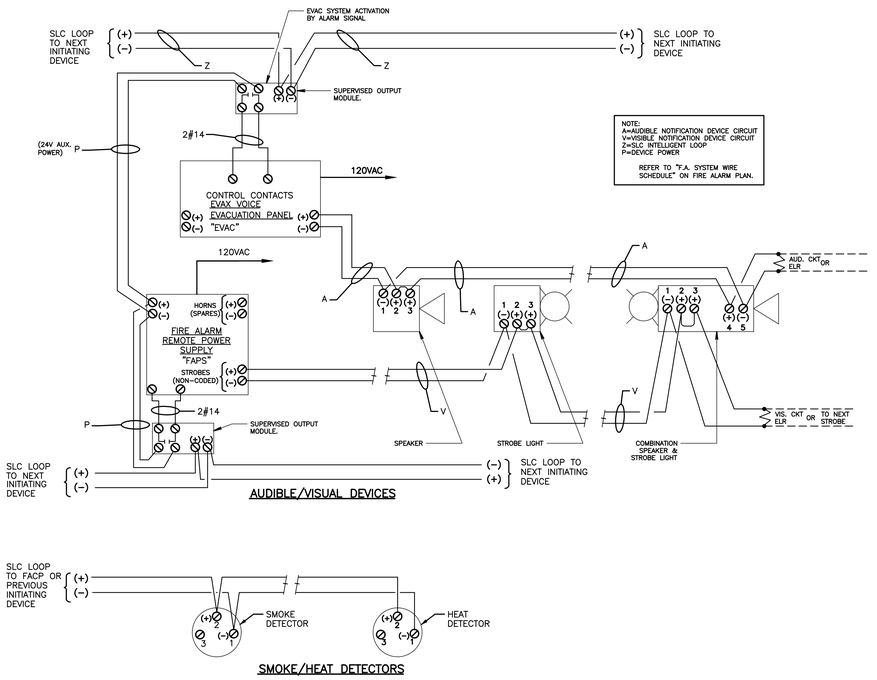
ELECTRICAL DETAILS SHEET #5

SHEET NUMBER

PHASE III

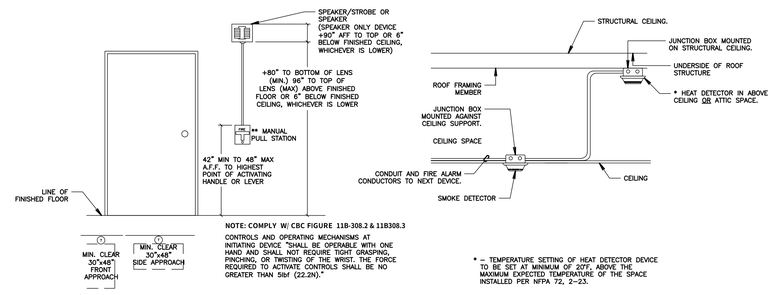
E504

DSA SUBMITTAL SET



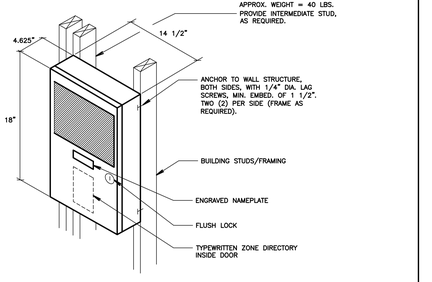
1 TYPICAL DEVICES WIRING DIAGRAMS DETAIL

NOT TO SCALE



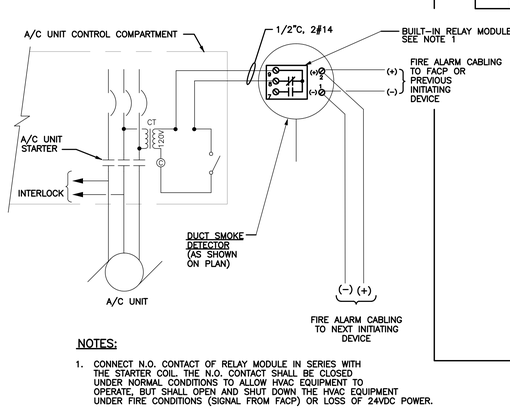
2 TYPICAL FIRE ALARM DEVICE MOUNTING DETAILS

SCALE: NOT TO SCALE



3 FIRE ALARM REMOTE POWER SUPPLY (FAPS), MOUNTING DETAIL

NOT TO SCALE



NOTES:

1. CONNECT N.O. CONTACT OF RELAY MODULE IN SERIES WITH THE STARTER COIL. THE N.O. CONTACT SHALL BE CLOSED UNDER NORMAL CONDITIONS TO ALLOW HVAC EQUIPMENT TO OPERATE, BUT SHALL OPEN AND SHUT DOWN THE HVAC EQUIPMENT UNDER FIRE CONDITIONS (SIGNAL FROM FACP) OR LOSS OF 24VDC POWER.

4 TYPICAL HVAC UNIT SHUTDOWN WIRING DIAGRAM

SCALE: NOT TO SCALE

NOTE: ALL WORK & MATERIALS SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR APPROVED SHOP DRAWINGS & FIRE ALARM VENDOR APPROVED SHOP DRAWINGS.

GENERAL NOTES

1. SMOKE DETECTORS SHALL BE INSTALLED 3' AWAY FROM SUPPLY AND RETURN AIR GRILLES.
2. FINAL FIRE ALARM TEST OF ALL DEVICES SHALL BE WITNESSED BY THE PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA 72, FIGURE 14.6.2.4 AND READ OUT VERIFICATION FORM FROM CENTRAL STATION. TEST SHALL ALSO BE WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A.H.J.).
3. UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER–TIGHT FITTINGS (C.E.C. 110.11 AND 300.6).
4. AUDIBLE DEVICE(S) SHALL BE AT LEAST 15dbA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75dbA AT 10' OR MORE THAN 110 dbA IN TOTAL, THROUGHOUT! (NFPA 72 18.4.1 AND C.F.C. 907.6.2).
5. AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA CODE IN TEMPORAL PATTERN, CODE 3.
6. VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH PER SECOND. (NFPA 72 18.5.2.1).
7. PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF INSTALLATION AT FIRE ALARM POWER EXPANDER PANEL. WHITE LETTERS ON A RED BACKGROUND.
8. PROVIDE A COPY OF THE BATTERY CALCULATION AT THE FIRE ALARM POWER EXPANDER PANEL. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.
9. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF SYNCHRONIZED APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION (NFPA 72 18.5.4.3.2(4)).
10. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.F.C. 907.9).
11. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS.
12. DRAWINGS DO NOT SHOW ALL THE NECESSARY J–BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED BUILDING WALLS.
13. ALL JUNCTIONS BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
14. FIRE ALARM WIRES SHALL BE COPPER TYPE THWN/THHN.
15. ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.
16. WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, PROVIDE A FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
17. JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED.
18. ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED.
19. CONTRACTOR SHALL FIELD VERIFY ALL DEVICES FOR ACCESSIBILITY. SOME DEVICES MAY NEED SURFACE RACEWAY (WIREMOLD) IF ACCESSIBILITY IS LIMITED.
20. CONTRACTOR SHALL PROVIDE ALL WIRE, CABLES,J–BOXES, BACK–BOXES, FITTINGS, CONDUIT, SUPPORTS, WIREMOLD, ETC. FOR A COMPLETE & FUNCTIONING SYSTEM.

NOTES (FIRE ALARM EQUIPMENT SPECIFICATIONS SCHEDULE)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. END OF LINE RESISTORS SHALL BE 10K FOR NOTIFICATION APPLIANCE CIRCUITS FEEDING FORM FIRE ALARM CONTROL PANEL AND 2.2K FOR NOTIFICATION APPLIANCE CIRCUITS FEEDING FROM FIRE ALARM POWER EXPANDER PANELS.
2. SET FOR 190 DEGREES.
3. PROVIDE WEATHERPROOF FLUSH WALL PLATE #WFP–R.
4. PROVIDE TRANSIENT SUPPRESSORS.
5. CONTRACTOR SHALL PROVIDE #OSID–INST, #OSP–001, & #OSP–002. VERIFY & PROVIDE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. PANEL SHALL BE 4–SLOT STANDARD RED WITH 4–SLC CIRCUITS, 1 MEDIA GATEWAY CARD (DIALER), & NETWORK CARD.
7. UON PROVIDE THIS MODEL FOR FIRE ALARM REMOTE POWER SUPPLY.

FIRE ALARM EQUIPMENT SPECIFICATIONS SCHEDULE

SYMBOL	MODEL. NO	DESCRIPTION	MANUFACTURER	CSFM. LISTING #	BACKBOX REQUIREMENTS	MOUNTING HEIGHT (TO CENTER U.O.N.)	REMARKS
FACP	LA103K2-10	FIRE ALARM CONTROL PANEL W/ DIGITAL ALARM COMMUNICATOR FN-DAC	HOCHIKI	7165-0410:0506		+60"	4 6
MC	FNVMP-16-R-120	MASTER VOICE PANEL HEAD END CONTROL	HOCHIKI	6911-0410:175		+60"	LOCATED IN BLDG. K
MIC	LFCOONC-10	LATITUDE NETWORK VISION ANNUNCIATOR	HOCHIKI	7120-0410:0507			LOCATED IN BLDG. K
FPS-1	FN-642-ULADA	FIRE ALARM REMOTE POWER SUPPLY	HOCHIKI	7315-0410:0166		+60"	7
S	ALN-V HSB-NSA-6	ADDRESSABLE SMOKE DETECTOR W/6" BASE	HOCHIKI	7272-0410:0204 7300-0410:0132	4" SQ. X. 2 1/8" DP. OUTLET BOX WITH S.G. RAISED RING		
H	ATJ-EA HSB-NSA-6	ADDRESSABLE HEAT DETECTOR W/6" BASE	HOCHIKI	7270-0410:0203 7300-0410:0132	4" SQ. X. 2 1/8" DP. OUTLET BOX WITH S.G. RAISED RING		2
M	DCP-SOM-A	SUPERVISED OUTPUT MODULE	HOCHIKI	7300-0410:150	4" SQ. X. 2 1/8" DP. OUTLET BOX		
WS	WSSPKR	OUTDOOR WALL MOUNT SPEAKER	GENTEX	7320-0569:0141	GBLP OUTDOOR BACKBOX		
S	HSSPK24WLPR	WALL MOUNTED COMBINATION SPEAKER & STROBE LIGHT (CANDELA VALUE AS SHOWN ON PLANS)	HOCHIKI	7320-0410:0195	4" SQ. X 2 1/8" DP. OUTLET BOX		
MP	FNV-DPS-100 -R-120	DISTRIBUTED VOICE PANEL (100W)	HOCHIKI	6911-0410:175		+60"	LOCATED IN BLDG "K"
EOL	--	END OF LINE RESISTOR 1		--	4" SQ. X 2 1/8" DP. OUTLET BOX 3	--	
R	DCP-R2ML	DUAL RELAY MODULE	HOCHIKI	7300-0410:0150	4" SQ. X. 2 1/8" DP. OUTLET BOX		
D	ACD-V HSB-NSA-6	MULTI-CRITERIA FIRE/CO DETECTOR W/BASE	HOCHIKI	7275-0410:0503 7300-0410:0132	4" SQ. X. 2 1/8" DP. OUTLET BOX WITH S.G. RAISED RING		
SC	HSSPK24CLPR	CEILING MOUNTED COMBINATION SPEAKER & STROBE LIGHT (CANDELA VALUE AS SHOWN ON PLANS)	HOCHIKI	7320-0410:0194	4" SQ. X. 2 1/8" DP. OUTLET BOX		
FPS	FN-1042-ULADA	FIRE ALARM REMOTE POWER SUPPLY	HOCHIKI	7315-0410:0166		+60"	LOCATED IN BLDG "E"
MP	FNV-DPS-100-R-120	DISTRIBUTED VOICE PANEL (100W)	HOCHIKI	6911-0410:175		+60"	LOCATED IN BLDG "E"
MP	FNV-DPS-50-R-120	DISTRIBUTED VOICE PANEL (50W)	HOCHIKI	6911-0410:175		+60"	LOCATED IN BLDG "J"
D	DH-99-A	DUCT SMOKE DETECTOR	HOCHIKI	3240-0410:0155			
E	OSE-SPW	OSID-SMOKE IMAGING DETECTION EMITTER	HOCHIKI	7260-1728:0121			5
I	OSI-90	OSID-SMOKE IMAGING DETECTION IMAGER	HOCHIKI	7260-1728:0121			5
DI	DIMM	DUAL INPUT MONITOR MODULE	HOCHIKI	7300-0410:150	4" SQ. X. 2 1/8" DP. OUTLET BOX		
PSU	HP400ULX	VESDA SYSTEM POWER SUPPLY	HONEYWELL	7300-1637:101		+60"	
VEP-A	VEP-A00-1P	INTELLIGENT VESDA-E VEP SERIES ASPIRATION DETECTORS	HOCHIKI	7259-1728:0502		+60"	

F.A. SYSTEM WIRE SCHEDULE

TAG	CONDUCTORS	DEVICE/FUNCTION	INTERIOR INSTALLATION	EXTERIOR INSTALLATION
V	2#12, THWN/THHN	VISIBLE NOTIFICATION DEVICES–STROBE LIGHTS	MIN. 3/4" CONDUIT	MIN. 1" CONDUIT
Z	1–PAIR #16 TWISTED, SHIELDED PAIR WEST PENN A0C294 (BLDG. EXTERIOR & UNDERGROUND) 1–PAIR #16 TWISTED, WEST PENN 991 (BLDG. INTERIOR)	CAMPUS/BLDG. SLC INTELLIGENT LOOP INITIATING DEVICES (PULL STATIONS, SMOKE AND HEAT DETECTORS, WATER FLOW AND TAMPER SWITCHES, MONITOR AND CONTROL MODULES, ETC.)	MIN. 3/4" CONDUIT	MIN. 1" CONDUIT
P	2#14, THWN/THHN	DEVICE POWER–24VDC	MIN. 3/4" CONDUIT	MIN. 1" CONDUIT
A	1–PAIR #16 TWISTED, SHIELDED PAIR WEST PENN A0C294 (BLDG. EXTERIOR & UNDERGROUND) 1–PAIR #16 TWISTED, WEST PENN 991 (BLDG. INTERIOR)	AUDIBLE NOTIFICATION DEVICES–SPEAKERS	MIN. 3/4" CONDUIT	MIN. 1" CONDUIT

SEQUENCE OF OPERATIONS

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
		ANNUNCIATE/DISPLAY AT FACP (ALARM, TROUBLE OR SUPERVISORY)	ANNUNCIATE AT REMOTE FIRE ALARM ANNUNCIATOR (ALARM, TROUBLE OR SUPERVISORY)	ANNUNCIATE AT REMOTE FIRE ALARM ANNUNCIATOR (ALARM, TROUBLE OR SUPERVISORY)	ACTIVATE RELAY FOR CENTRAL STATION MONITORING (ALARM, TROUBLE OR SUPERVISORY)	ACTIVATE FA CONTROL PANEL EXTERNAL ALARM SIGNAL THROUGHOUT BUILDING								SYSTEM WILL BE 100% OPERATIONAL (PER CBC 907.2.3 EXCEPTION 4) WHEN ON EMERGENCY POWER					SHUT DOWN AIR HANDLER UNITS
1	MANUAL PULL STATIONS	●	●	●	●	●													
2	SMOKE DETECTORS	●	●	●	●	●													●
3	FIRE ALARM SYSTEM AC POWER FAIL	●	●	●	●									●					
4	FIRE ALARM SYSTEM LOW BATTERY	●	●	●	●														
5	OPEN CIRCUIT	●	●	●	●														
6	GROUND FAULT	●	●	●	●														
8	HEAT DETECTORS	●	●	●	●	●													
9	NOTIFICATION CIRCUIT SHORT	●	●	●	●														
10																			

FIRE ALARM LEGEND

1A2, 2V1, 1Z1 — F.A. SYSTEM WIRING; TAG IDENTIFIES THE FOLLOWING: FIRST NUMBER INDICATES QUANTITY OF LOOPS OR CIRCUITS; LETTER NOTATION INDICATES TYPE OF LOOP OR CIRCUIT, INCLUDING CONDUCTOR REQUIREMENTS, PER "F.A. SYSTEM WIRE SCHEDULE" ON THIS SHEET; NUMBER AFTER LETTER INDICATES LOOP NUMBER.

AUDIBLE CIRCUIT NO. 1 (A1) — VISIBLE CIRCUIT NO. 1 (V1) — DEVICE I.D. NO. (S) — INTELLIGENT LOOP NO. (1) — DENOTES F.A. DEVICE CONNECTED TO NOTIFICATION CIRCUITS, OR INTELLIGENT LOOP CIRCUITS AND CONSECUTIVE DEVICE I.D. NO. FOR THIS LOOP.

CODE, RULES & REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.

FIRE ALARM LEVEL OF AUDIBILITY

ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15db ABOVE AMBIENT NOISE LEVELS MEASURED FOUR FEET ABOVE THE FLOOR INSIDE BUILDING.

AMBIENT NOISE LEVELS SHALL BE CONSTRUED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATION OR WORKING CONDITIONS.

THE FIRE ALARM SIGNAL SHALL COMPLY WITH THE CALIFORNIA EDUCATION CODE, SECTIONS 32000 AND 32004, AND BE A TEMPORAL PATTERN, CODE 3.

FIRE ALARM SYSTEM INSTALLATION NOTES

ALL DRAWINGS ARE DIAGRAMMATIC ONLY, AND SHALL NOT BE USED IN DETERMINING ACTUAL CONDUIT ROUTING. THE CONTRACTOR SHALL VERIFY ALL CONDUIT ROUTING CONDITIONS AT THE PROJECT SITE AS CONSTRUCTION PROGRESSES.

ALL FIRE ALARM DATA COMMUNICATIONS AND INITIATING CIRCUITS SHALL BE INSTALLED UTILIZING SOLID COPPER CONDUCTORS WITH OUTER COVERING COLORS PER THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS. ALL SMOKE DAMPER AND REMOTE TROUBLE INDICATOR CIRCUITS SHALL BE YELLOW. ALL CIRCUITS SHALL BE INDIVIDUALLY LABELED, BOTH AT THE DEVICE END AND AT THE SIGNAL TERMINAL CABINET AND/OR FIRE ALARM MASTER PANEL TERMINATION POINT.

ALL FIRE ALARM CIRCUITS SHALL BE CONTINUOUS FROM DEVICE TO DEVICE. SPLICES ARE NOT ALLOWED UNLESS IN COVERED JUNCTION BOXES ON APPROVED TERMINAL BLOCKS. "T" TAPPING IS ALLOWED ONLY UNDER THESE CONDITIONS.

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS' LABORATORY OF SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

COMPLETE AUTOMATIC FIRE ALARM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

SCHOOLS FIRE ALARM REQUIREMENTS

THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA BUILDING CODE, SECTION 907.2.3; CALIFORNIA ELECTRICAL CODE, ARTICLE 760 AND CALIFORNIA FIRE CODE, CHAPTER 9, SECTION 907.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION, NFPA 72. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

FIRE ALARM SYSTEM CERTIFICATION AND DESCRIPTION SHALL BE PROVIDED FOR TESTING AND A PLASTIC LAMINATED COPY SHALL REMAIN (WITH INSTRUCTIONS) AT THE FIRE ALARM CONTROL PANEL PER NFPA 72.

THE FIRE ALARM "RECORD OF COMPLETION" FORM, FIGURE 10, 18, 2, 1 IN NFPA 72, SHALL BE COMPLETED, SIGNED AND SUBMITTED TO THE SCHOOL DISTRICT AND THE LOCAL AUTHORITY (K.C.F.D.) HAVING JURISDICTION AT THE COMPLETION OF THE TEST.

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

FIRE ALARM EQUIPMENT LIST, FIRE ALARM NOTES, FIRE ALARM DETAILS, WIRING DIAGRAMS

SHEET NUMBER PHASE III

E600

DSA SUBMITTAL SET

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS

POWER SUPPLY #	LOCATED IN	LOOP TYPE & No.	DEVICES: 75cd CEILING	75cd CEILING	15cd CLNG	30cd	STROBES: 15cd	30cd	75cd	110cd	WIRE: SIZE	DC RESIST. /1000'	TOTAL ALARM CURRENT	ONE-WAY LOOP LENGTH FROM POWER SUPPLY TO MIDDLE OF	TOTAL VD	VOLTAGE DROP	MINIMUM BATTERY SIZE	BATTERY SELECTED
			Alarm Current - I(a) (Amp)															
			0.272	0.272	0.120	0.120	0.078	0.096	0.180	0.224	AWG	OHMS	AMPS	FEET	VOLTS	%	AH	AH
RPS-L		V1				1	3	1			12	1.93	0.450	146	0.254	1.06	SEE	
		V2								3	12	1.93	0.540	261	0.544	2.27	RPS-L	
		V3									12	1.93					BATTERY	
		V4									12	1.93					CALCS	
											12	1.93						
											12	1.93					1.87	4.0
											12	1.93						
											12	1.93						

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS

POWER SUPPLY #	LOCATED IN	LOOP TYPE & No.	DEVICES: 75cd CEILING	75cd CEILING	15cd CLNG	HORN	HORN	STROBES: 15cd	30cd	75cd	110cd	WIRE: SIZE	DC RESIST. /1000'	TOTAL ALARM CURRENT	ONE-WAY LOOP LENGTH FROM POWER SUPPLY TO MIDDLE OF	TOTAL VD	VOLTAGE DROP	MINIMUM BATTERY SIZE	BATTERY SELECTED
			Alarm Current - I(a) (Amp)																
			0.272	0.272	0.028	0.022	0.078	0.096	0.180	0.224		AWG	OHMS	AMPS	FEET	VOLTS	%	AH	AH
RPS-E		V1										12	1.93					SEE	
		V2										12	1.93					RPS-E	
		V3										12	1.93					BATTERY	
		V4	5				3					12	1.93	1.594	200	1.231	5.13	CALCS	
												12	1.93						
												12	1.93					1.87	4.0
												12	1.93						
												12	1.93						
												12	1.93						

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS

POWER SUPPLY #	LOCATED IN	LOOP TYPE & No.	DEVICES: 75cd CEILING	75cd CEILING	15cd CLNG	30cd	STROBES: 15cd	30cd	75cd	110cd	WIRE: SIZE	DC RESIST. /1000'	TOTAL ALARM CURRENT	ONE-WAY LOOP LENGTH FROM POWER SUPPLY TO MIDDLE OF	TOTAL VD	VOLTAGE DROP	MINIMUM BATTERY SIZE	BATTERY SELECTED
			Alarm Current - I(a) (Amp)															
			0.272	0.272	0.120	0.120	0.078	0.096	0.180	0.224	AWG	OHMS	AMPS	FEET	VOLTS	%	AH	AH
RPS-F		V1					4				12	1.93	0.312	159	0.191	0.80	SEE	
		V2								4	12	1.93	0.720	207	0.575	2.40	RPS-F	
		V3								3	12	1.93	0.540	312	0.650	2.71	BATTERY	
		V4									12	1.93					CALCS	
											12	1.93						
											12	1.93					1.87	4.0
											12	1.93						
											12	1.93						
											12	1.93						

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS

POWER SUPPLY #	LOCATED IN	LOOP TYPE & No.	DEVICES: 75cd CEILING	75cd CEILING	15cd CLNG	30cd	STROBES: 15cd	30cd	75cd	110cd	WIRE: SIZE	DC RESIST. /1000'	TOTAL ALARM CURRENT	ONE-WAY LOOP LENGTH FROM POWER SUPPLY TO MIDDLE OF	TOTAL VD	VOLTAGE DROP	MINIMUM BATTERY SIZE	BATTERY SELECTED
			Alarm Current - I(a) (Amp)															
			0.272	0.272	0.120	0.120	0.078	0.096	0.180	0.224	AWG	OHMS	AMPS	FEET	VOLTS	%	AH	AH
RPS-G		V1							2		12	1.93	0.360	315	0.438	1.82	SEE	
		V2							3		12	1.93	0.540	160	0.334	1.39	RPS-G	
		V3					4		2		12	1.93	0.672	260	0.674	2.81	BATTERY	
		V4									12	1.93					CALCS	
											12	1.93						
											12	1.93					1.87	4.0
											12	1.93						
											12	1.93						
											12	1.93						

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS

POWER SUPPLY #	LOCATED IN	LOOP TYPE & No.	DEVICES: 75cd CEILING	75cd CEILING	15cd CLNG	30cd	STROBES: 15cd	30cd	75cd	110cd	WIRE: SIZE	DC RESIST. /1000'	TOTAL ALARM CURRENT	ONE-WAY LOOP LENGTH FROM POWER SUPPLY TO MIDDLE OF	TOTAL VD	VOLTAGE DROP	MINIMUM BATTERY SIZE	BATTERY SELECTED
			Alarm Current - I(a) (Amp)															
			0.272	0.272	0.120	0.120	0.078	0.096	0.180	0.224	AWG	OHMS	AMPS	FEET	VOLTS	%	AH	AH
RPS-H		V1						2		3	12	1.93	0.696	200	0.537	2.24	SEE	
		V2									12	1.93					RPS-H	
		V3									12	1.93					BATTERY	
		V4									12	1.93					CALCS	
											12	1.93						
											12	1.93					1.87	4.0
											12	1.93						
											12	1.93						
											12	1.93						

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS

POWER SUPPLY #	LOCATED IN	LOOP TYPE & No.	DEVICES: 75cd CEILING	75cd CEILING	15cd CLNG	30cd	STROBES: 15cd	30cd	75cd	110cd	WIRE: SIZE	DC RESIST. /1000'	TOTAL ALARM CURRENT	ONE-WAY LOOP LENGTH FROM POWER SUPPLY TO MIDDLE OF	TOTAL VD	VOLTAGE DROP	MINIMUM BATTERY SIZE	BATTERY SELECTED
			Alarm Current - I(a) (Amp)															
			0.272	0.272	0.120	0.120	0.078	0.096	0.180	0.224	AWG	OHMS	AMPS	FEET	VOLTS	%	AH	AH
RPS-J		V1		6						1	12	1.93	0.944	261	0.951	3.96	SEE	
		V2	1		2	3				1	12	1.93	1.052	362	1.470	6.12	RPS-J	
		V3					3			4	12	1.93	0.954	450	1.657	6.90	BATTERY	
		V4		4		2		1			12	1.93	0.816	562	1.770	7.38	CALCS	
											12	1.93						
											12	1.93					1.87	4.0
											12	1.93						
											12	1.93						
											12	1.93						

STROBE CIRCUIT VOLTAGE DROP CALCULATIONS

POWER SUPPLY #	LOCATED IN	LOOP TYPE & No.	DEVICES: 75cd CEILING	75cd CEILING	15cd CLNG	HORN	HORN	STROBES: 15cd	30cd	75cd	110cd	WIRE: SIZE	DC RESIST. /1000'	TOTAL ALARM CURRENT	ONE-WAY LOOP LENGTH FROM POWER SUPPLY TO MIDDLE OF	TOTAL VD	VOLTAGE DROP	MINIMUM BATTERY SIZE	BATTERY SELECTED
			Alarm Current - I(a) (Amp)																
			0.272	0.272	0.028	0.022	0.078	0.096	0.180	0.224		AWG	OHMS	AMPS	FEET	VOLTS	%	AH	AH
RPS-B		V1	5						1			12	1.93	1.360	382	2.005	8.36	SEE	
		V2	5						1			12	1.93	1.456	268	1.506	6.28	RPS-B	
		V3	4				3		1			12	1.93	1.418	388	2.124	8.85	BATTERY	
		V4										12	1.93					CALCS	
												12	1.93						
												12	1.93					1.87	4.0
												12	1.93						
												12	1.93						
												12	1.93						

Application Drawing

APP-02
01/02R2

Field Wiring Guidelines

Wire Type:

The speaker circuits of most voice evacuation systems will typically be classified as power limited wiring. As such, these speaker circuits can be run with other fire alarm wiring without ill effects.

No special cabling is required for the speaker circuits. Standard FPL or FPLP wire is sufficient. Twisted pair or shielding twisted pair wiring is not necessary.

There is one exception, however. Certain addressable systems may generate extraneous noise from their addressable loop, and cannot be run using shielded cable. In this case, shielding of the evacuation speaker circuit will help to eliminate noise picked up by and heard in speakers during standby operation, and possible interference with the addressable loop.

Wire Gauge:

Generally, #18 AWG will be adequate for speaker circuits. The only time that heavier wire is needed is when load is high, and wire runs are long. But remember, it never hurts to go with heavier wire. So if a #16 or #14 AWG pair is being pulled for strobes, it is often easier and less costly to pull the same wire for the evacuation speaker circuits.

The table below illustrates typical wire lengths for specific wire gauge and speaker load:*

At 25VRMS Output:

Power	#18 AWG	#16AWG	#14 AWG	#12AWG
10W	1,900	3,050	4,850	7,700
15W	1,280	2,030	3,230	5,140
25W	760	1,220	1,930	3,080

At 70VRMS Output:

Power	#18 AWG	#16AWG	#14 AWG	#12AWG
10W	15,200	24,200	38,360	61,100
15W	10,130	16,130	25,570	40,730
25W	6,080	9,680	15,340	24,440

* This table assumes that there is an even distribution of the speaker load on the speaker circuit, and that a 20% drop at the last device is allowable. If an even distribution of load is not the case, reduce all wire runs by 1/2.

1 SPEAKER CIRCUIT WIRING GUIDELINES
NOT TO SCALE

BCSD OWENS INTERMEDIATE

"RPS-H" POWER & BATTERY CALCULATION

DEVICE / DESCRIPTION	PANEL STAND-BY (mA)	PANEL ALARM (mA)	FACP QUANTITY	FACP STAND-BY (mA)	FACP ALARM (mA)
DISTRIBUTED POWER MODULE	130	130	1	130	130
SPEAKER/STROBE INTERIOR CEILING 30cd		120			
SPEAKER/STROBE INTERIOR CEILING 75cd		272			
SPEAKER/STROBE INTERIOR WALL MOUNT 15cd		78	2		156
SPEAKER/STROBE INTERIOR WALL MOUNT 30cd		96			
SPEAKER/STROBE INTERIOR WALL MOUNT 75cd		180	3		540
TOTALS (AMPS):				I(s) 0.090	I(a) 4.405
Amp Hour:			3.99		
Battery to be provided -			7.0		

OWENS INTERMEDIATE

"FACP" POWER & BATTERY CALCULATION

DEVICE / DESCRIPTION	PANEL STAND-BY (mA)	PANEL ALARM (mA)	FACP QUANTITY	FACP STAND-BY (mA)	FACP ALARM (mA)
FIRE ALARM CONTROL PANEL W/4-SLC LOOPS	665	735	1	665	735
NETWORK CARD	80	80	1	80	80
DIGITAL ALARM COMMUNICATOR	114	114	1	114	114
SPEAKER/STROBE INTERIOR CEILING 15cd		120	20		2400
SPEAKER/STROBE INTERIOR CEILING 30cd		120	4		480
SPEAKER/STROBE INTERIOR CEILING 75cd		272	3		816
SPEAKER/STROBE INTERIOR WALL MOUNT 15cd		78	5		390
DUAL INPUT MONITOR MODULE	0.6	0.72	2	1.2	1.44
SUPERVISED OUTPUT MODULE	0.22	6	5	1.1	30
MULTI-CRITERIA FIRE/CO DETECTOR	0.45	7.2	19	8.55	136.8
SMOKE DETECTORS	0.45	0.54	171	76.95	92.34
HEAT DETECTORS	0.35	0.5	159	55.65	79.5
DUAL RELAY MODULE	0.35	0.405	2	0.7	0.81
DUCT DETECTOR	0.39	0.54	2	0.78	1.08
VESDA SYSTEM	8	8	2	16	16
ANNUNCIATOR	246	341	1	246	341
TOTALS (AMPS):				I(s) 1.266	I(a) 5.714
Amp Hour:			38.17		
Battery to be provided -			55.0		

BCSD OWENS INTERMEDIATE

"RPS-J" POWER & BATTERY CALCULATION

DEVICE / DESCRIPTION	PANEL STAND-BY (mA)	PANEL ALARM (mA)	FACP QUANTITY	FACP STAND-BY (mA)	FACP ALARM (mA)
DISTRIBUTED POWER MODULE	130	130	1	130	130
SPEAKER/STROBE INTERIOR CEILING 30cd		120	3		360
SPEAKER/STROBE INTERIOR CEILING 75cd		272	1		272
SPEAKER/STROBE INTERIOR CEILING 15cd		120	12		1440
SPEAKER/STROBE INTERIOR WALL MOUNT 15cd		78	5		390
SPEAKER/STROBE INTERIOR WALL MOUNT 30cd		96			
SPEAKER/STROBE INTERIOR WALL MOUNT 75cd		180	6		1080
SPEAKER/STROBE INTERIOR WALL MOUNT 110cd		224	1		224
TOTALS (AMPS):				I(s) 0.130	I(a) 3.896
Amp Hour:			4.91		
Battery to be provided -			7.0		

BCSD OWENS INTERMEDIATE

"RPS-E" POWER & BATTERY CALCULATION

DEVICE / DESCRIPTION	PANEL STAND-BY (mA)	PANEL ALARM (mA)	FACP QUANTITY	FACP STAND-BY (mA)	FACP ALARM (mA)
DISTRIBUTED POWER MODULE	90	175	1	90	175
SPEAKER/STROBE INTERIOR CEILING 75cd		272	5		1360
SPEAKER/STROBE INTERIOR WALL MOUNT 15cd		78	3		234
SPEAKER/STROBE INTERIOR WALL MOUNT 30cd		96			
TOTALS (AMPS):				I(s) 0.090	I(a) 1.769
Amp Hour:			3.12		
Battery to be provided -			7.0		

BCSD OWENS INTERMEDIATE

"RPS-B" POWER & BATTERY CALCULATION

DEVICE / DESCRIPTION	PANEL STAND-BY (mA)	PANEL ALARM (mA)	FACP QUANTITY	FACP STAND-BY (mA)	FACP ALARM (mA)
DISTRIBUTED POWER MODULE	90	175	1	90	175
SPEAKER/STROBE INTERIOR CEILING 75cd		272	14		3808
SPEAKER/STROBE INTERIOR WALL MOUNT 15cd		78	3		234
SPEAKER/STROBE INTERIOR WALL MOUNT 30cd		96	2		192
TOTALS (AMPS):				I(s) 0.130	I(a) 4.409
Amp Hour:			3.91		
Battery to be provided -			7.0		

BCSD OWENS INTERMEDIATE

"RPS-F" POWER & BATTERY CALCULATION

DEVICE / DESCRIPTION	PANEL STAND-BY (mA)	PANEL ALARM (mA)	FACP QUANTITY	FACP STAND-BY (mA)	FACP ALARM (mA)
DISTRIBUTED POWER MODULE	130	130	1	130	130
SPEAKER/STROBE INTERIOR CEILING 30cd		120			
SPEAKER/STROBE INTERIOR CEILING 75cd		272			
SPEAKER/STROBE INTERIOR WALL MOUNT 15cd		78	4		312
SPEAKER/STROBE INTERIOR WALL MOUNT 30cd		96			
SPEAKER/STROBE INTERIOR WALL MOUNT 75cd		180	7		1260
TOTALS (AMPS):				I(s) 0.130	I(a) 1.702
Amp Hour:			4.25		
Battery to be provided -			7.0		

BCSD OWENS INTERMEDIATE

VESDA SYSTEM POWER SUPPLY #2 POWER & BATTERY CALCULATION

DEVICE / DESCRIPTION	PANEL STAND-BY (mA)	PANEL ALARM (mA)	FACP QUANTITY	FACP STAND-BY (mA)	FACP ALARM (mA)
VESDA SYSTEM VEP-A00-1P	360	390	1	360	390
TOTALS (AMPS):				I(s) 0.360	I(a) 0.390
Amp Hour:			10.49		
Battery to be provided -			25.0		

BCSD OWENS INTERMEDIATE

VESDA SYSTEM POWER SUPPLY #1 POWER & BATTERY CALCULATION

DEVICE / DESCRIPTION	PANEL STAND-BY (mA)	PANEL ALARM (mA)	FACP QUANTITY	FACP STAND-BY (mA)	FACP ALARM (mA)
VESDA SYSTEM VEP-A00-1P	360	390	1	360	390
TOTALS (AMPS):				I(s) 0.360	I(a) 0.390
Amp Hour:			10.49		
Battery to be provided -			25.0		

BCSD OWENS INTERMEDIATE

"RPS-L" POWER & BATTERY CALCULATION

DEVICE / DESCRIPTION	PANEL STAND-BY (mA)	PANEL ALARM (mA)	FACP QUANTITY	FACP STAND-BY (mA)	FACP ALARM (mA)
DISTRIBUTED POWER MODULE	130	130	1	130	130
SPEAKER/STROBE INTERIOR CEILING 30cd		120	1		120
SPEAKER/STROBE INTERIOR CEILING 75cd		272			
SPEAKER/STROBE INTERIOR WALL MOUNT 15cd		78	3		234
SPEAKER/STROBE INTERIOR WALL MOUNT 30cd		96	1		96
SPEAKER/STROBE INTERIOR WALL MOUNT 75cd		180	3		540
TOTALS (AMPS):				I(s) 0.130	I(a) 1.120
Amp Hour:			4.08		
Battery to be provided -			7.0		

BCSD OWENS INTERMEDIATE

"RPS-G" POWER & BATTERY CALCULATION

DEVICE / DESCRIPTION	PANEL STAND-BY (mA)	PANEL ALARM (mA)	FACP QUANTITY	FACP STAND-BY (mA)	FACP ALARM (mA)
DISTRIBUTED POWER MODULE	130	130	1	130	130
SPEAKER/STROBE INTERIOR CEILING 30cd		120			
SPEAKER/STROBE INTERIOR CEILING 75cd		272			
SPEAKER/STROBE INTERIOR WALL MOUNT 15cd		78	4		312
SPEAKER/STROBE INTERIOR WALL MOUNT 30cd		96			
SPEAKER/STROBE INTERIOR WALL MOUNT 75cd		180	7		1260
TOTALS (AMPS):				I(s) 0.130	I(a) 1.702
Amp Hour:			4.25		
Battery to be provided -			7.0		

FORMULAS USED FOR CALCULATIONS:

FORMULA FOR BATTERY SIZING:
FOR FACP/FAPS/DPM – 24 HOURS STANDBY & 15 MIN IN ALARM:
AMP HOUR = 1.20 [(24 HOURS X I(S)) + (15/60 HOUR X I(A))]

WHERE,
1.20 = BATTERY DERATING VALUE
I(S) = TOTAL SUPERVISORY CURRENT (0 FOR NOTIFICATION DEVICES AND 48 mA FOR FCPS-24)
I(A) = TOTAL ALARM CURRENT

FORMULA FOR VOLTAGE DROP CALCULATIONS

TOTAL DC RESISTANCE = # OF WIRES X Rdc/1000 X ONE-WAY LOOP LENGTH FROM POWER SUPPLY TO MIDDLE OF LOAD

TOTAL VD = TOTAL DC RESISTANCE X TOTAL ALARM CURRENT

MINIMUM VOLTAGE AT DEVICES = 20.4V – TOTAL VD
20.4V = MINIMUM VOLTAGE AT END OF USEFUL BATTERY LIFE (85% OF 24VDC)

NOTE:
THE MANUFACTURER'S OPERATING VOLTAGE IS BETWEEN 16VDC AND 33 VDC (FOR 24VDC NOMINAL)

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

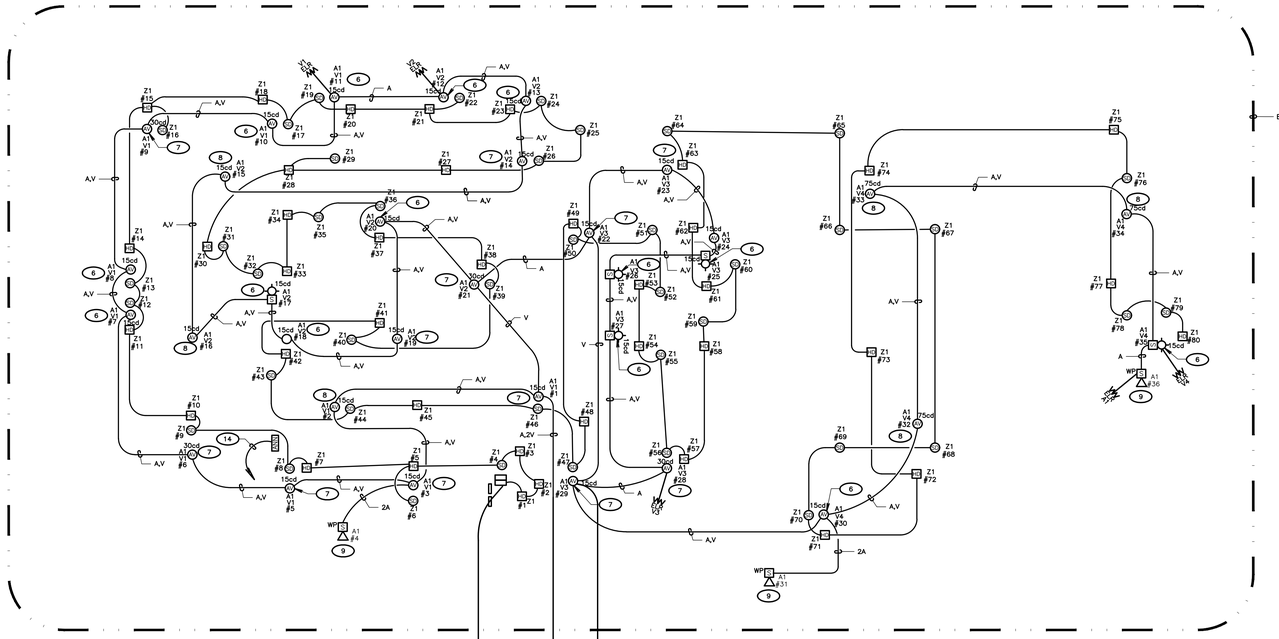
SHEET TITLE

FIRE ALARM VOLTAGE DROP AND BATTERY CALCULATIONS

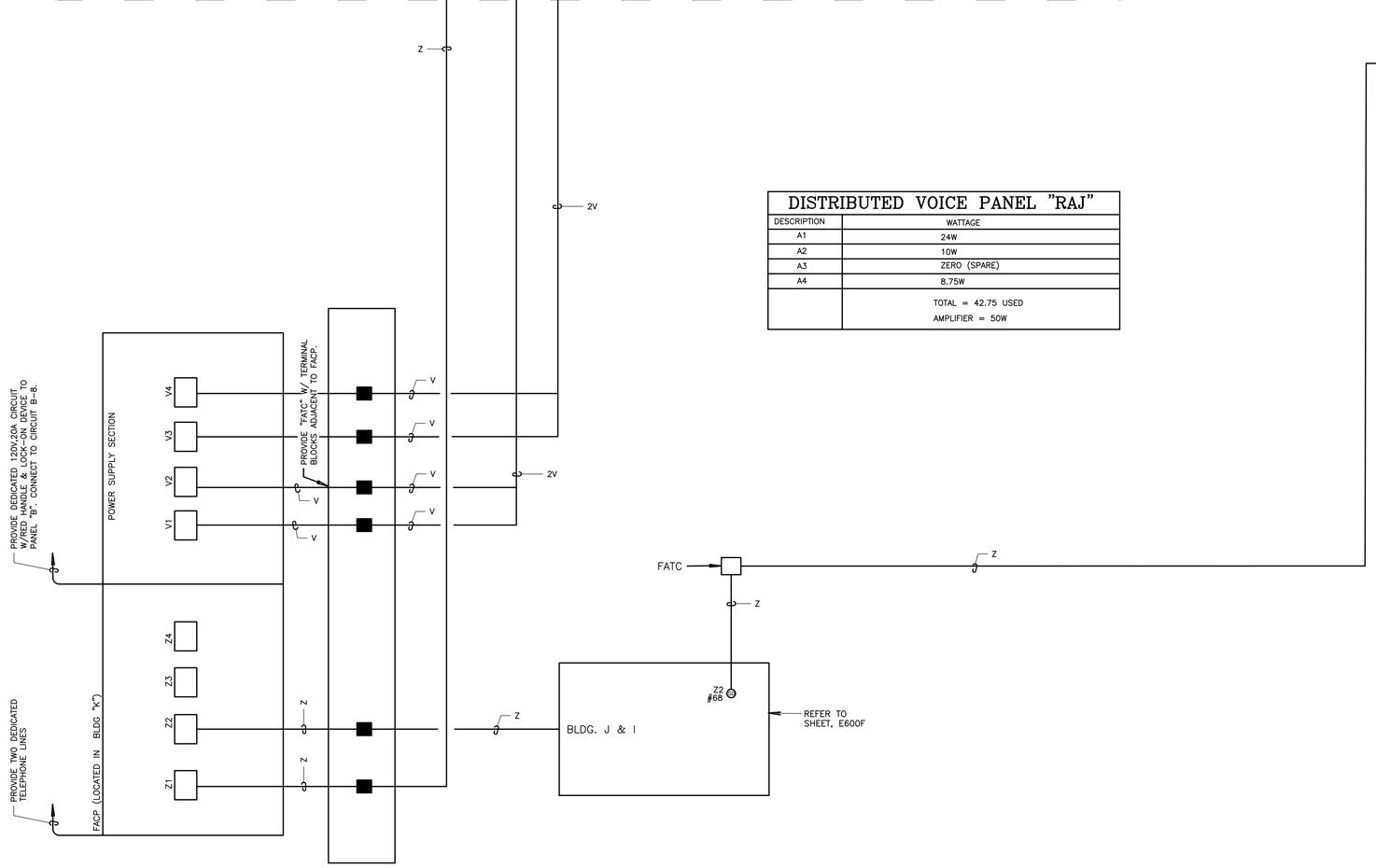
SHEET NUMBER

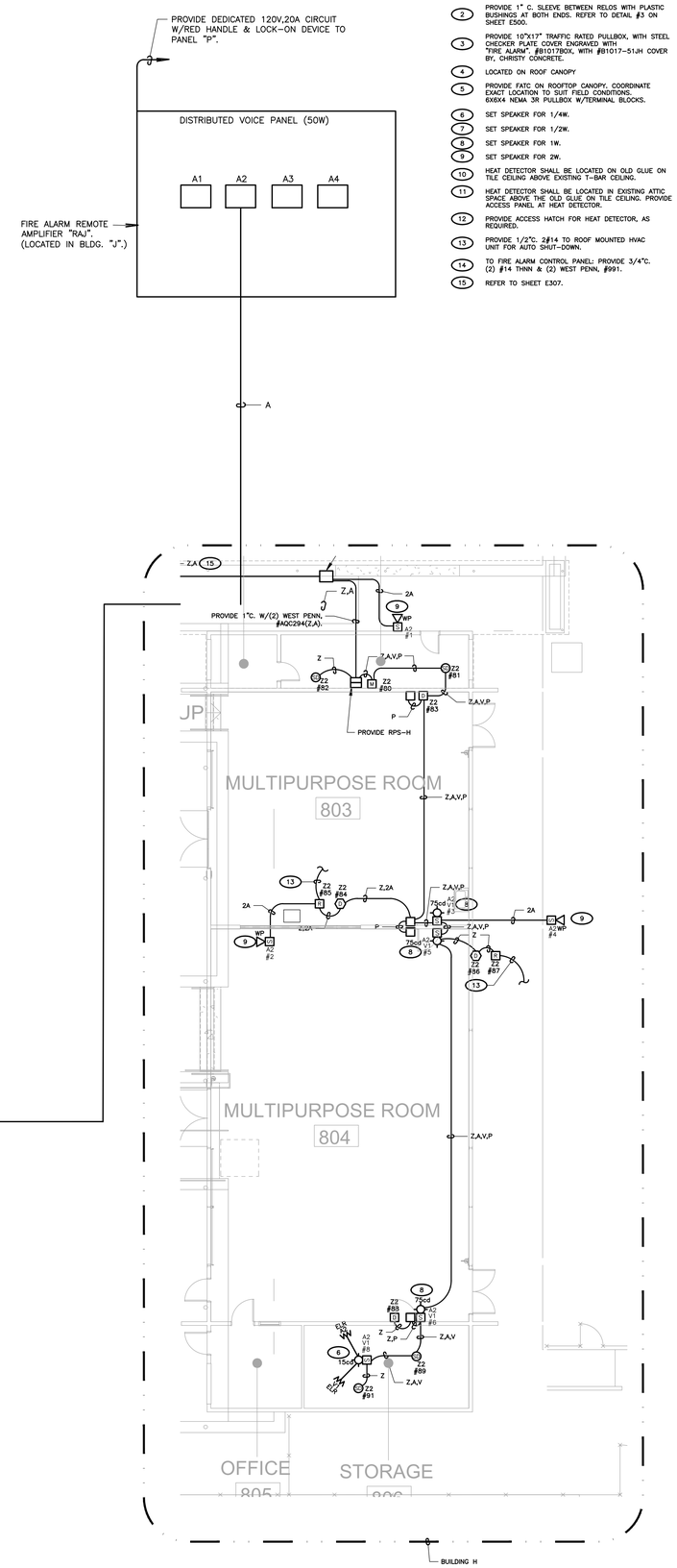
PHASE III

E600A



DISTRIBUTED VOICE PANEL "RAJ"	
DESCRIPTION	WATTAGE
A1	24W
A2	10W
A3	ZERO (SPARE)
A4	8.75W
	TOTAL = 42.75 USED AMPLIFIER = 50W





KEY NOTES (BLDG. K & H)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PROVIDE FATC, 6X6X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
2. PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
3. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM", #B1017BOX, WITH #B1017-51JH COVER BY, CHRISTY CONCRETE.
4. LOCATED ON ROOF CANOPY
5. PROVIDE FATC ON ROOFTOP CANOPY. COORDINATE EXACT LOCATION TO SUIT FIELD CONDITIONS. 6X6X4 NEMA 3R PULLBOX W/TERMINAL BLOCKS.
6. SET SPEAKER FOR 1/4W.
7. SET SPEAKER FOR 1/2W.
8. SET SPEAKER FOR 1W.
9. SET SPEAKER FOR 2W.
10. HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING T-BAR CEILING.
11. HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON TILE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.
12. PROVIDE ACCESS HATCH FOR HEAT DETECTOR, AS REQUIRED.
13. PROVIDE 1/2"C. 2#14 TO ROOF MOUNTED HVAC UNIT FOR AUTO SHUT-DOWN.
14. TO FIRE ALARM CONTROL PANEL: PROVIDE 3/4"C. (2) #14 THWN & (2) WEST PENN, #991.
15. REFER TO SHEET E307.

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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

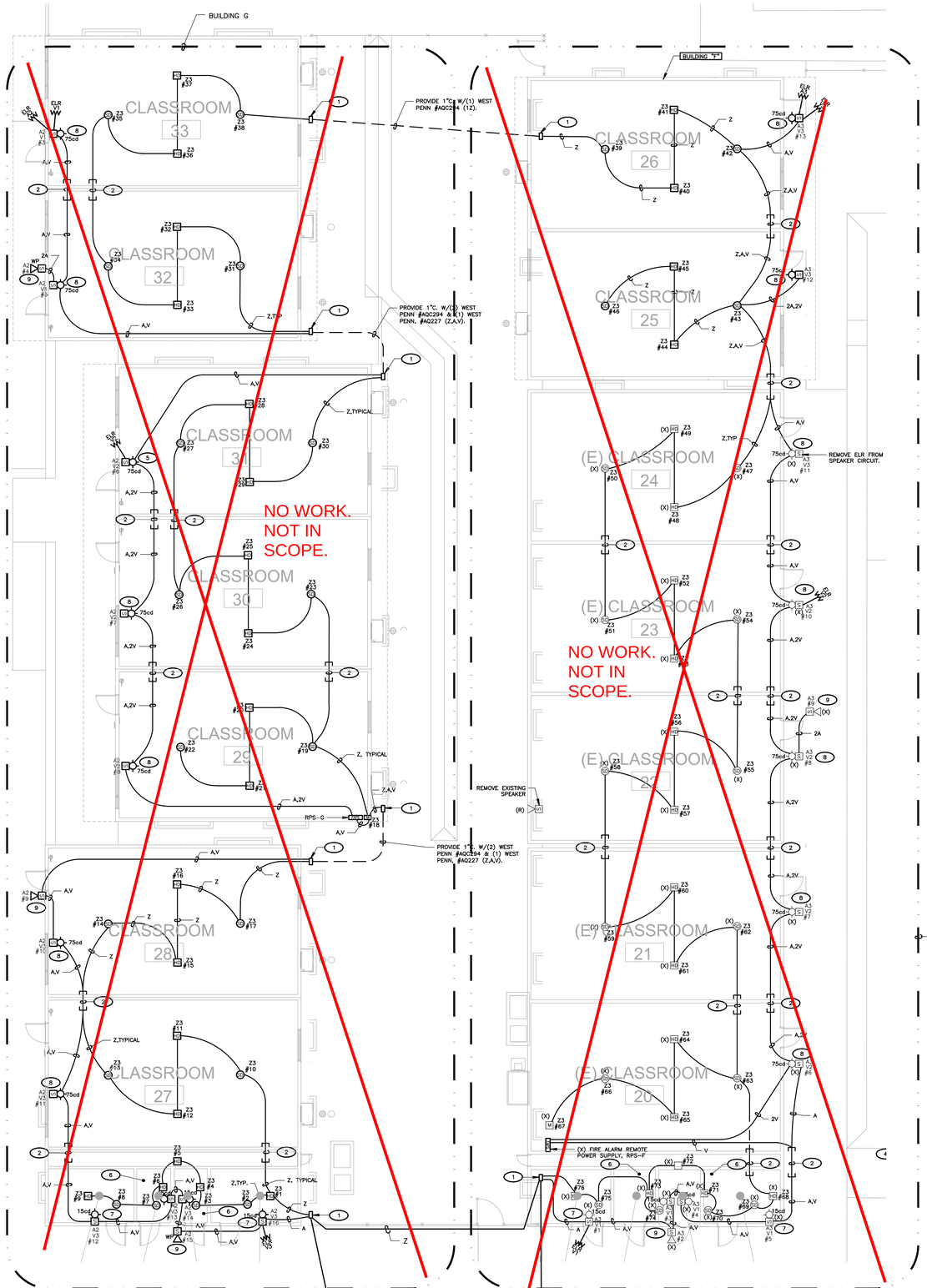
PARTIAL FIRE ALARM RISER DIAGRAM BLDGS. H & K

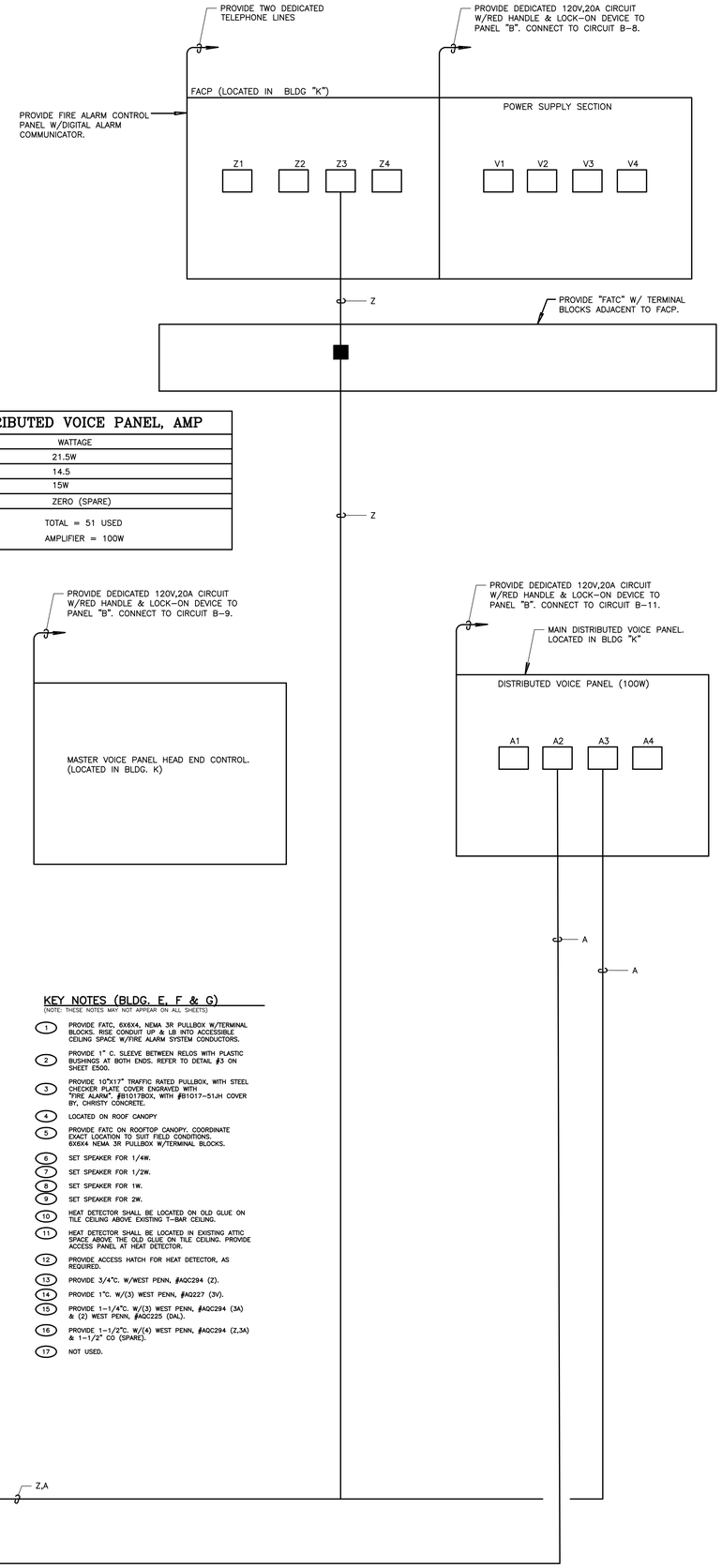
SHEET NUMBER

PHASE III

E600B

DSA SUBMITTAL SET





MAIN DISTRIBUTED VOICE PANEL, AMP

DESCRIPTION	WATTAGE
A1	21.5W
A2	14.5
A3	15W
A4	ZERO (SPARE)
	TOTAL = 51 USED
	AMPLIFIER = 100W

KEY NOTES (BLDG. E, F & G)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PROVIDE FATC, 6X6X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
2. PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
3. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM". #B1017BOX, WITH #B1017-51JH COVER BY. CHRISTY CONCRETE.
4. LOCATED ON ROOF CANOPY
5. PROVIDE FATC ON ROOFTOP CANOPY. COORDINATE EXACT LOCATION TO SUIT FIELD CONDITIONS. 6X6X4 NEMA 3R PULLBOX W/TERMINAL BLOCKS.
6. SET SPEAKER FOR 1/4W.
7. SET SPEAKER FOR 1/2W.
8. SET SPEAKER FOR 1W.
9. SET SPEAKER FOR 2W.
10. HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING T-BAR CEILING.
11. HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON TILE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.
12. PROVIDE ACCESS HATCH FOR HEAT DETECTOR, AS REQUIRED.
13. PROVIDE 3/4"C. W/WEST PENN, #AQC294 (Z).
14. PROVIDE 1"C. W/(3) WEST PENN, #AQ227 (3V).
15. PROVIDE 1-1/4"C. W/(3) WEST PENN, #AQC294 (3A) & (2) WEST PENN, #AQC225 (DAL).
16. PROVIDE 1-1/2"C. W/(4) WEST PENN, #AQC294 (2,3A) & 1-1/2" CO (SPARE).
17. NOT USED.

AGENCY INFORMATION:

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT — Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

PARTIAL FIRE ALARM RISER DIAGRAM, BLDGS. G & F

SHEET NUMBER

PHASE III

E600C

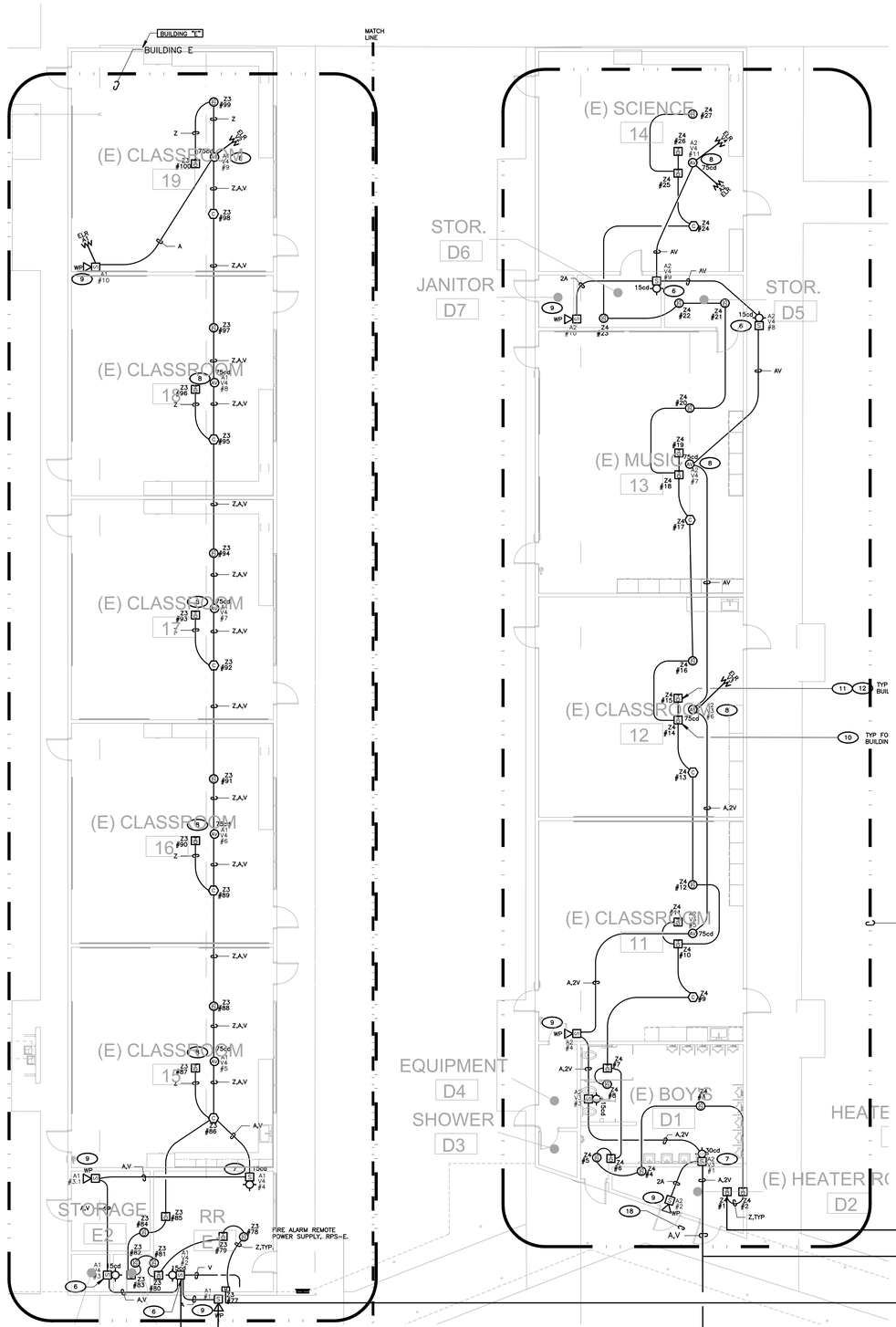
DSA SUBMITTAL SET

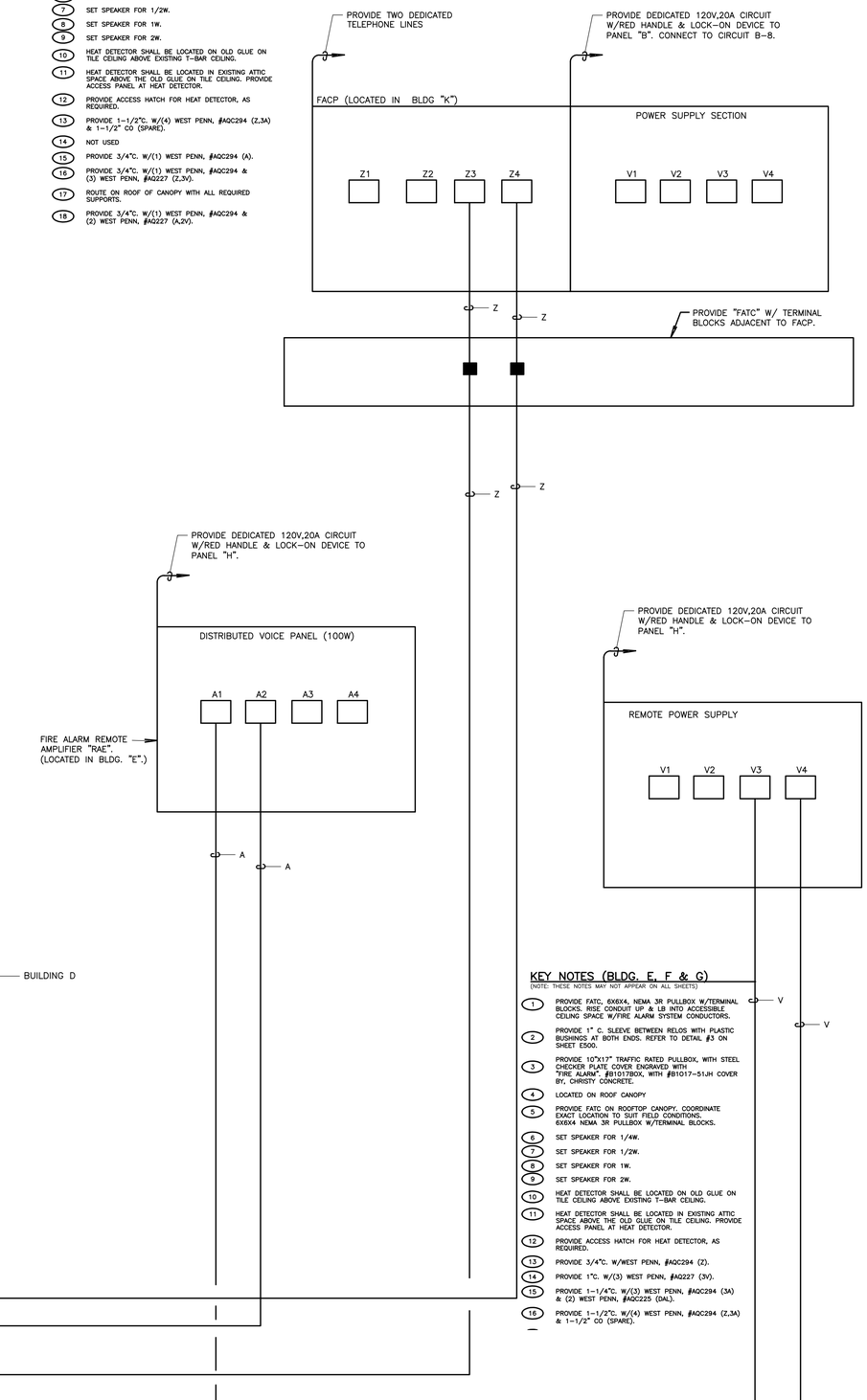
DISTRIBUTED VOICE PANEL "RAE"	
DESCRIPTION	WATTAGE
A1	12W
A2	11.25W
A3	11.5W
A4	13W
A4	TOTAL = 47.75 USED AMPLIFIER = 100W

KEY NOTES (BLDG. B, C & D)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PROVIDE FATC, 6X6X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
2. PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
3. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM", #B1017BOX, WITH #B1017-51JH COVER BY, CHRISTY CONCRETE.
4. LOCATED ON ROOF CANOPY
5. PROVIDE FATC ON ROOFTOP CANOPY. COORDINATE EXACT LOCATION TO SUIT FIELD CONDITIONS. 6X6X4 NEMA 3R PULLBOX W/TERMINAL BLOCKS.
6. SET SPEAKER FOR 1/4W.
7. SET SPEAKER FOR 1/2W.
8. SET SPEAKER FOR 1W.
9. SET SPEAKER FOR 2W.
10. HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING T-BAR CEILING.
11. HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON TILE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.
12. PROVIDE ACCESS HATCH FOR HEAT DETECTOR, AS REQUIRED.
13. PROVIDE 1-1/2"C. W/(4) WEST PENN, #AQC294 (Z,3A) & 1-1/2" CO (SPARE).
14. NOT USED
15. PROVIDE 3/4"C. W/(1) WEST PENN, #AQC294 (A).
16. PROVIDE 3/4"C. W/(1) WEST PENN, #AQC294 & (3) WEST PENN, #AQ227 (Z,2V).
17. ROUTE ON ROOF OF CANOPY WITH ALL REQUIRED SUPPORTS.
18. PROVIDE 3/4"C. W/(1) WEST PENN, #AQC294 & (2) WEST PENN, #AQ227 (A,2V).





KEY NOTES (BLDG. E, F & G)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PROVIDE FATC, 6X6X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
2. PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
3. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM", #B1017BOX, WITH #B1017-51JH COVER BY, CHRISTY CONCRETE.
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12. PROVIDE ACCESS HATCH FOR HEAT DETECTOR, AS REQUIRED.
13. PROVIDE 3/4"C. W/WEST PENN, #AQC294 (2).
14. PROVIDE 1"C. W/(3) WEST PENN, #AQ227 (3V).
15. PROVIDE 1-1/4"C. W/(3) WEST PENN, #AQC294 (3A) & (2) WEST PENN, #AQC225 (0AL).
16. PROVIDE 1-1/2"C. W/(4) WEST PENN, #AQC294 (Z,3A) & 1-1/2" CO (SPARE).

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815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

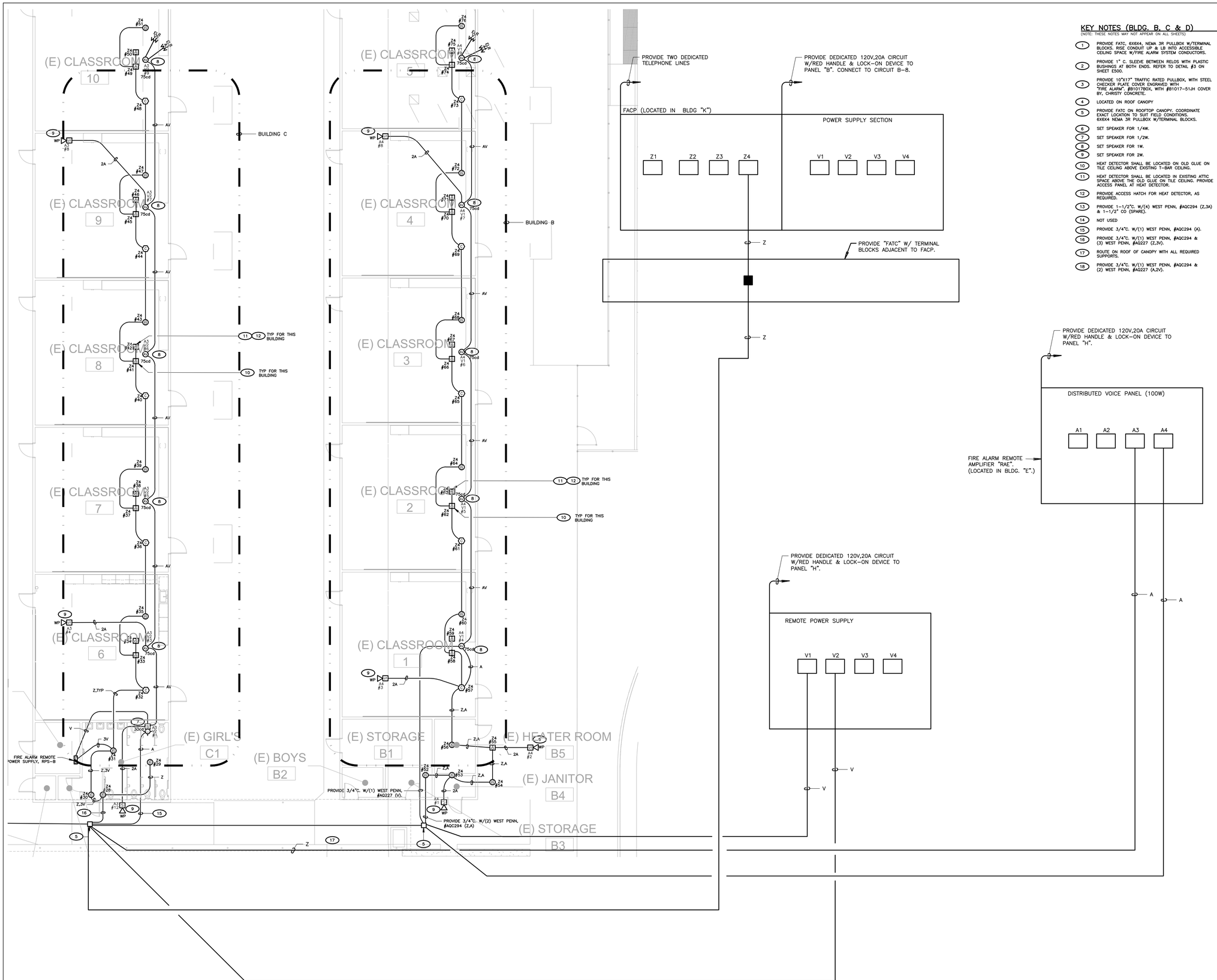
PARTIAL FIRE ALARM RISER DIAGRAM, BLDGS. D & E

SHEET NUMBER

PHASE III

E600D

DSA SUBMITTAL SET



KEY NOTES (BLDG. B, C & D)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PROVIDE FATC, 6X6X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
2. PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
3. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM". #B1017BOX, WITH #B1017-S1JH COVER BY, CHRISTY CONCRETE.
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6. SET SPEAKER FOR 1/4W.
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12. PROVIDE ACCESS HATCH FOR HEAT DETECTOR, AS REQUIRED.
13. PROVIDE 1-1/2"C. W/(4) WEST PENN, #AQC294 (Z,3A) & 1-1/2" CO (SPARE).
14. NOT USED
15. PROVIDE 3/4"C. W/(1) WEST PENN, #AQC294 (A).
16. PROVIDE 3/4"C. W/(1) WEST PENN, #AQC294 & (3) WEST PENN, #AQ227 (Z,3V).
17. ROUTE ON ROOF OF CANOPY WITH ALL REQUIRED SUPPORTS.
18. PROVIDE 3/4"C. W/(1) WEST PENN, #AQC294 & (2) WEST PENN, #AQ227 (A,2V).

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815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
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CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

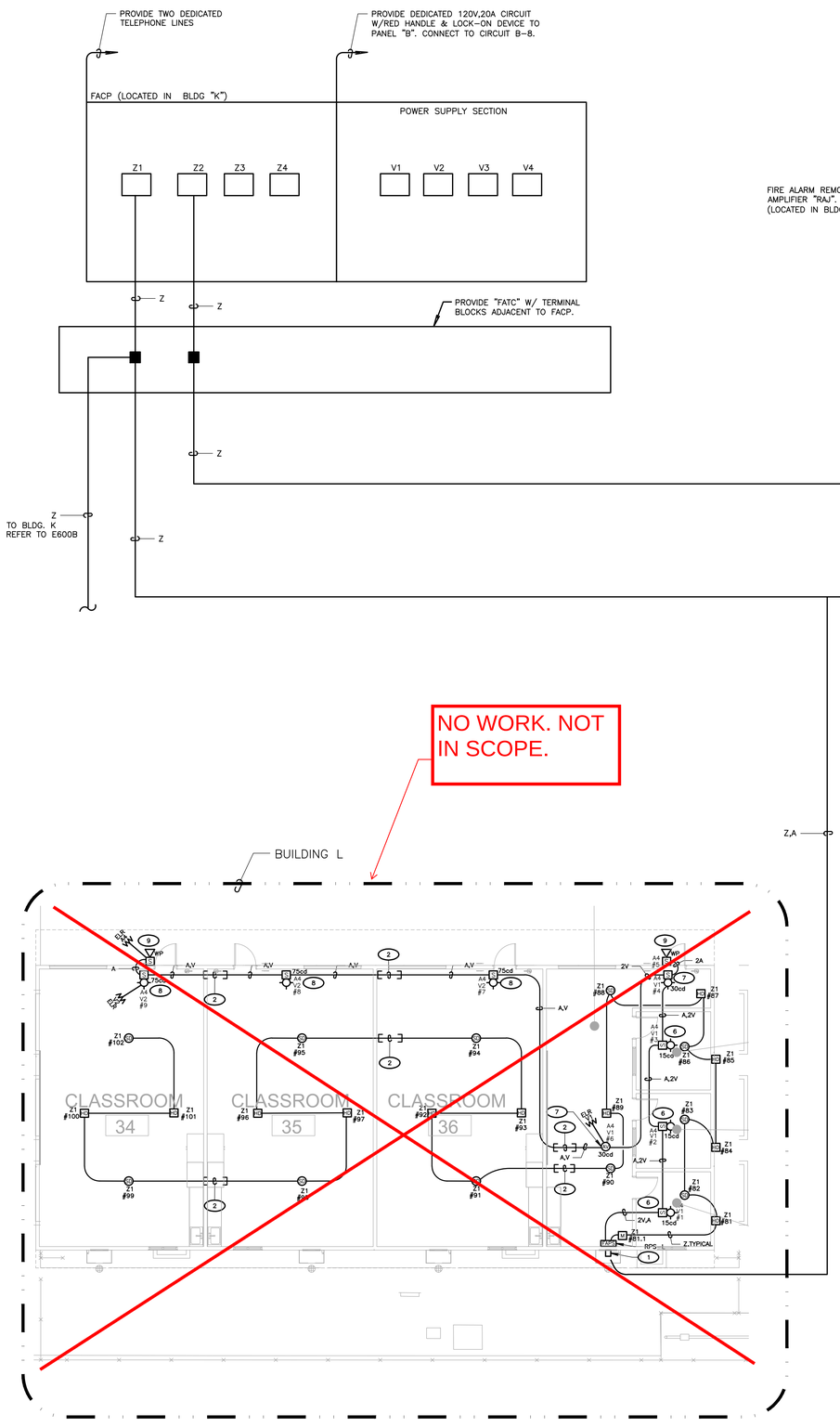
PARTIAL FIRE ALARM RISER DIAGRAM, BLDGS. C & B

SHEET NUMBER

PHASE III

E600E

DSA SUBMITTAL SET



KEY NOTES (BLDG. L, J & I)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PROVIDE FATC, 6X6X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
2. PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
3. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM". #B1017BOX, WITH #B1017 -51JH COVER BY, CHRISTY CONCRETE.
4. LOCATED ON ROOF CANOPY
5. PROVIDE FATC ON ROOFTOP CANOPY. COORDINATE EXACT LOCATION TO SUIT FIELD CONDITIONS. 6X6X4 NEMA 3R PULLBOX W/TERMINAL BLOCKS.
6. SET SPEAKER FOR 1/4W.
7. SET SPEAKER FOR 1/2W.
8. SET SPEAKER FOR 1W.
9. SET SPEAKER FOR 2W.
10. HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING T-BAR CEILING.
11. HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON TILE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.
12. PROVIDE ACCESS HATCH FOR HEAT DETECTOR, AS REQUIRED.
13. PROVIDE 1/2"C. 2#14 TO EXISTING ROOF MOUNTED HVAC UNIT FOR AUTO SHUT DOWN.

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OPSC or OSHPD PROJ. NO:	
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CHK'D BY:	DF
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SHEET TITLE

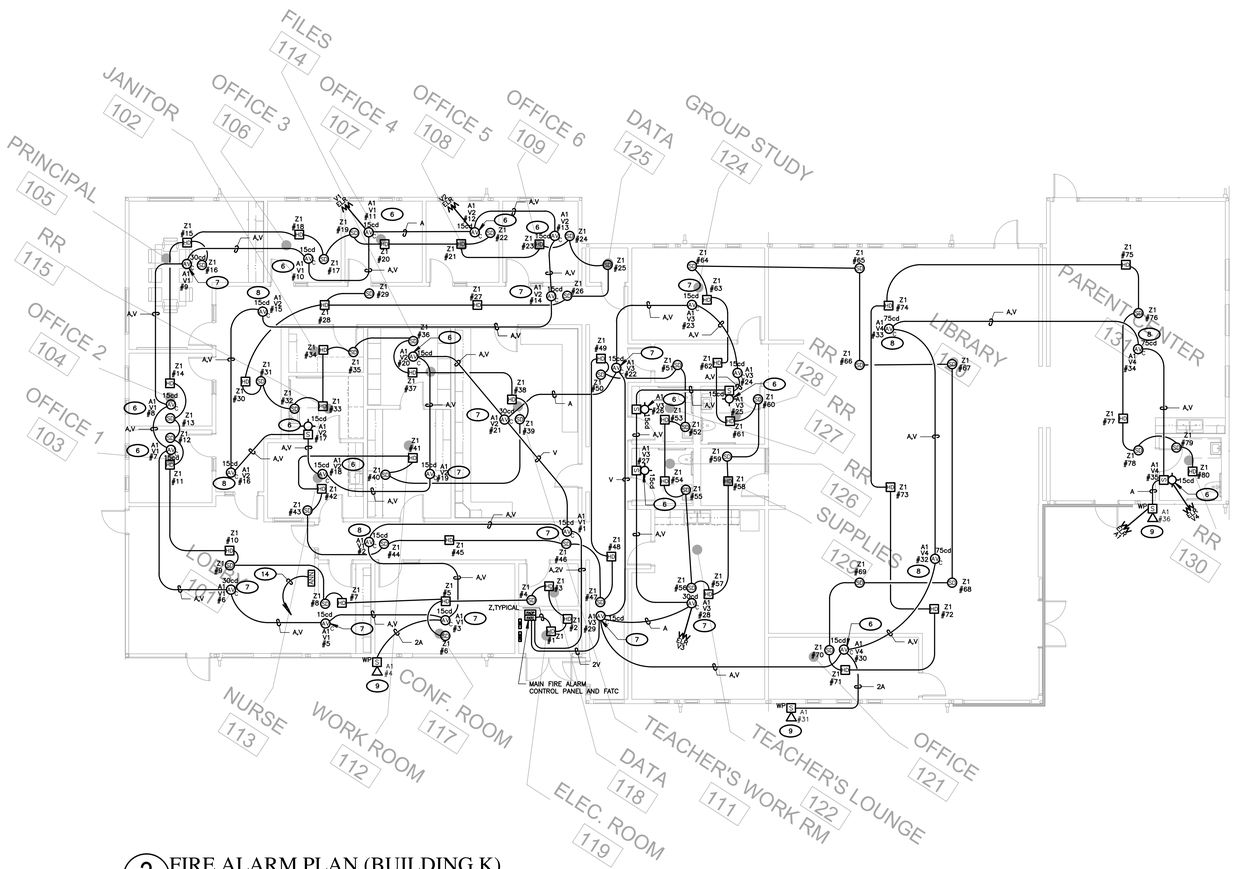
PARTIAL FIRE ALARM RISER DIAGRAM BLDGS L & J , I

SHEET NUMBER

PHASE III

E600F

DSA SUBMITTAL SET



3 FIRE ALARM PLAN (BUILDING K)

SCALE: 1/8"=1'-0"

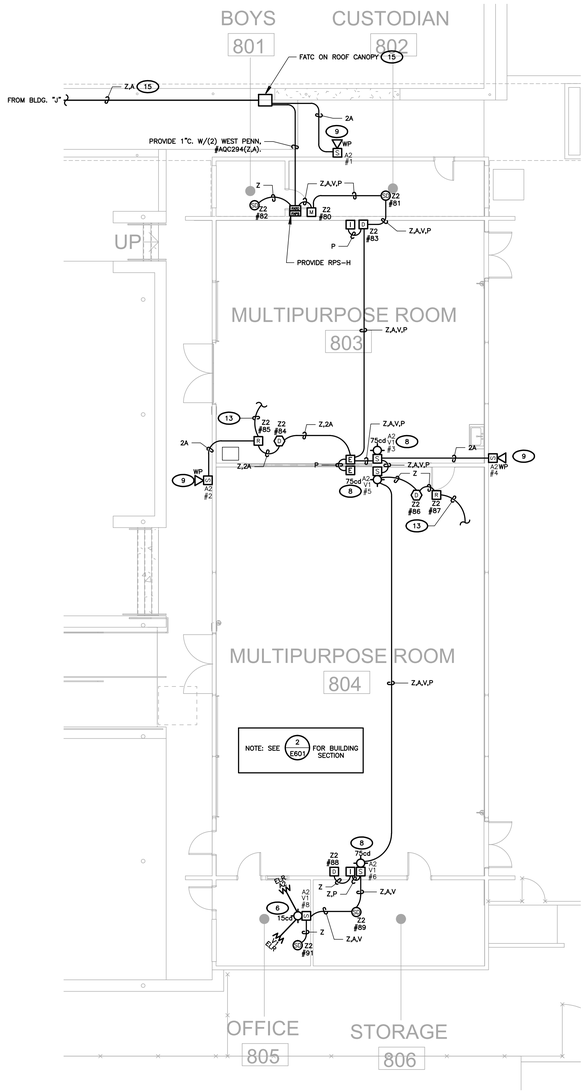
GENERAL NOTES

1. SMOKE DETECTORS SHALL BE INSTALLED 3' AWAY FROM SUPPLY AND RETURN AIR GRILLES.
2. FINAL FIRE ALARM TEST OF ALL DEVICES SHALL BE WITNESSED BY THE PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA 72, FIGURE 14.6.2.4 AND READ OUT VERIFICATION FORM FROM CENTRAL STATION. TEST SHALL ALSO BE WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A.H.J.).
3. UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS (C.E.C. 110.11 AND 300.6).
4. AUDIBLE DEVICE(S) SHALL BE AT LEAST 15dbA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75dbA AT 10' OR MORE THAN 110 dbA IN TOTAL THROUGHOUT (NFPA 72 18.4.1 AND C.F.C. 907.6.2).
5. AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA CODE IN TEMPORAL PATTERN, CODE 3.
6. VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH PER SECOND. (NFPA 72 18.5.2.1).
7. PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF INSTALLATION AT FIRE ALARM POWER EXPANDER PANEL. WHITE LETTERS ON A RED BACKGROUND.
8. PROVIDE A COPY OF THE BATTERY CALCULATION AT THE FIRE ALARM POWER EXPANDER PANEL. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.
9. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF SYNCHRONIZED APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION (NFPA 72 18.5.4.3.2(4)).
10. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.F.C. 907.9).
11. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS.
12. DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED BUILDING WALLS.
13. ALL JUNCTIONS BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
14. FIRE ALARM WIRES SHALL BE COPPER TYPE THWN/THHN.
15. ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.
16. WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, PROVIDE A FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
17. JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED.
18. ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED.
19. CONTRACTOR SHALL FIELD VERIFY ALL DEVICES FOR ACCESSIBILITY. SOME DEVICES MAY NEED SURFACE RACEWAY (WIREMOLD) IF ACCESSIBILITY IS LIMITED.
20. CONTRACTOR SHALL PROVIDE ALL WIRE, CABLES,J-BOXES, BACK-BOXES, FITTINGS, CONDUIT, SUPPORTS, WIREMOLD, ETC. FOR A COMPLETE & FUNCTIONING SYSTEM.

KEY NOTES (BLDG. K & H)

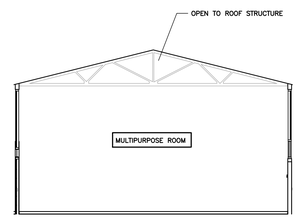
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PROVIDE FATC, 6X6X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
2. PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
3. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM". #B1017BOX, WITH #B1017-S1JH COVER BY, CHRISTY CONCRETE.
4. LOCATED ON ROOF CANOPY
5. PROVIDE FATC ON ROOFTOP CANOPY. COORDINATE EXACT LOCATION TO SUIT FIELD CONDITIONS. 6X6X4 NEMA 3R PULLBOX W/TERMINAL BLOCKS.
6. SET SPEAKER FOR 1/4W.
7. SET SPEAKER FOR 1/2W.
8. SET SPEAKER FOR 1W.
9. SET SPEAKER FOR 2W.
10. HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING T-BAR CEILING.
11. HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON TILE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.
12. PROVIDE ACCESS HATCH FOR HEAT DETECTOR, AS REQUIRED.
13. PROVIDE 1/2"C. 2#14 TO ROOF MOUNTED HVAC UNIT FOR AUTO SHUT-DOWN.
14. TO FIRE ALARM CONTROL PANEL: PROVIDE 3/4"C. (2) #14 THHN & (2) WEST PENN, #991.
15. REFER TO SHEET E307.



1 FIRE ALARM PLAN (BUILDING H)

SCALE: 1/8"=1'-0"



2 BUILDING SECTION (BLDG H)

SCALE: NOT TO SCALE

AGENCY INFORMATION:

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DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/6/2020

SHEET TITLE

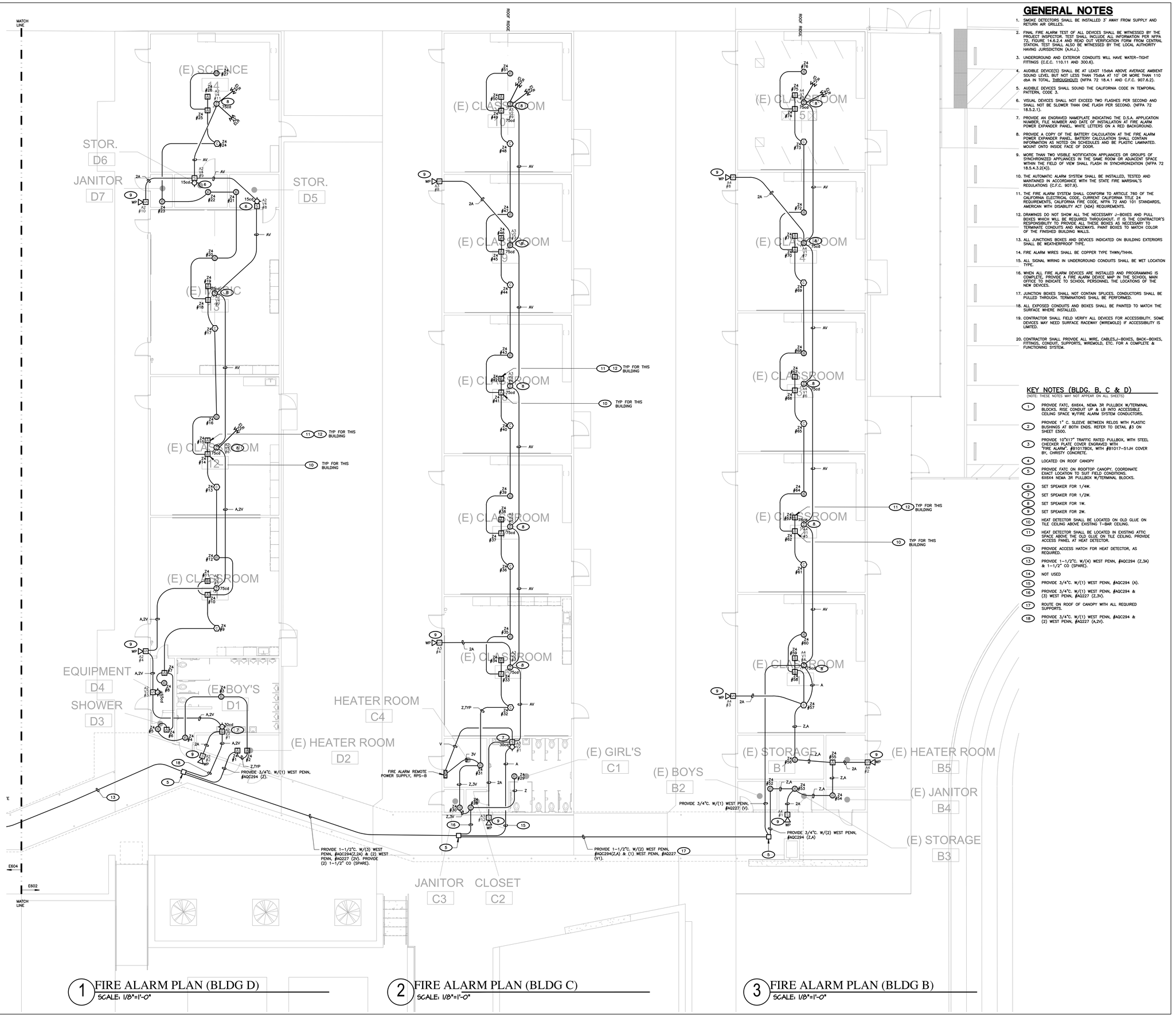
FIRE ALARM PLAN (BUILDING K & H)

SHEET NUMBER

PHASE III

E601

DSA SUBMITTAL SET



1 FIRE ALARM PLAN (BLDG D)
SCALE: 1/8"=1'-0"

2 FIRE ALARM PLAN (BLDG C)
SCALE: 1/8"=1'-0"

3 FIRE ALARM PLAN (BLDG B)
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. SMOKE DETECTORS SHALL BE INSTALLED 3' AWAY FROM SUPPLY AND RETURN AIR GRILLES.
2. FINAL FIRE ALARM TEST OF ALL DEVICES SHALL BE WITNESSED BY THE PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA 72, FIGURE 14.6.2.4 AND READ OUT VERIFICATION FORM FROM CENTRAL STATION. TEST SHALL ALSO BE WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A.H.J.).
3. UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER-TIGHT FITTINGS (C.E.C. 110.11 AND 300.6).
4. AUDIBLE DEVICE(S) SHALL BE AT LEAST 15dbA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75dbA AT 10' OR MORE THAN 110 dbA IN TOTAL THROUGHOUT (NFPA 72 18.4.1 AND C.F.C. 907.6.2).
5. AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA CODE IN TEMPORAL PATTERN, CODE 3.
6. VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH PER SECOND. (NFPA 72 18.5.2.1).
7. PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF INSTALLATION AT FIRE ALARM POWER EXPANDER PANEL. WHITE LETTERS ON A RED BACKGROUND.
8. PROVIDE A COPY OF THE BATTERY CALCULATION AT THE FIRE ALARM POWER EXPANDER PANEL. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.
9. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF SYNCHRONIZED APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION (NFPA 72 18.5.4.3.2(4)).
10. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.F.C. 907.9).
11. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS.
12. DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED BUILDING WALLS.
13. ALL JUNCTIONS BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
14. FIRE ALARM WIRES SHALL BE COPPER TYPE THWN/THHN.
15. ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.
16. WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, PROVIDE A FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
17. JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED.
18. ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED.
19. CONTRACTOR SHALL FIELD VERIFY ALL DEVICES FOR ACCESSIBILITY. SOME DEVICES MAY NEED SURFACE RACEWAY (WIREMOLD) IF ACCESSIBILITY IS LIMITED.
20. CONTRACTOR SHALL PROVIDE ALL WIRE, CABLES,J-BOXES, BACK-BOXES, FITTINGS, CONDUIT, SUPPORTS, WIREMOLD, ETC. FOR A COMPLETE & FUNCTIONING SYSTEM.

KEY NOTES (BLDG. B, C & D)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PROVIDE FATC, 6X6X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
2. PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
3. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM". #B1017BOX, WITH #B1017-S1JH COVER BY, CHRISTY CONCRETE.
4. LOCATED ON ROOF CANOPY
5. PROVIDE FATC ON ROOFTOP CANOPY. COORDINATE EXACT LOCATION TO SUIT FIELD CONDITIONS. 6X6X4 NEMA 3R PULLBOX W/TERMINAL BLOCKS.
6. SET SPEAKER FOR 1/4W.
7. SET SPEAKER FOR 1/2W.
8. SET SPEAKER FOR 1W.
9. SET SPEAKER FOR 2W.
10. HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING 1-BAR CEILING.
11. HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON TILE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.
12. PROVIDE ACCESS HATCH FOR HEAT DETECTOR, AS REQUIRED.
13. PROVIDE 1-1/2"C. W/(4) WEST PENN, #AQC294 (Z,3A) & 1-1/2" CO (SPARE).
14. NOT USED
15. PROVIDE 3/4"C. W/(1) WEST PENN, #AQC294 (A).
16. PROVIDE 3/4"C. W/(1) WEST PENN, #AQC294 & (3) WEST PENN, #AQ227 (Z,3V).
17. ROUTE ON ROOF OF CANOPY WITH ALL REQUIRED SUPPORTS.
18. PROVIDE 3/4"C. W/(1) WEST PENN, #AQC294 & (2) WEST PENN, #AQ227 (A,2V).

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BAKERSFIELD CITY SCHOOL DISTRICT

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815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

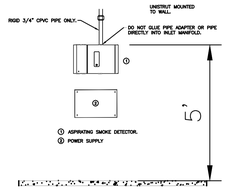
FIRE ALARM PLAN (BLDGS B,C,&D)

SHEET NUMBER

PHASE III

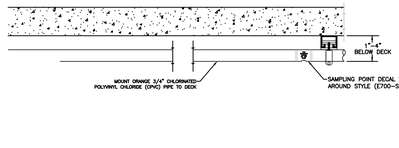
E602

DSA SUBMITTAL SET



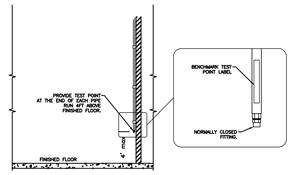
1 TYPICAL DETECTOR MOUNTING DETAIL
DIAGRAMMATIC

NOTES:
1. ASSD APPARATUS SHALL BE MOUNTED TO A WALL IN THE PROTECTED ROOM AT A HEIGHT OF APPROXIMATELY 48 TO 60 INCHES TO TOP OF APPARATUS MEASURED ABOVE FINISHED FLOOR.
2. MOUNTING LOCATION SHALL BE EASILY ACCESSIBLE AND IN A VISIBLE LOCATION.
3. MOUNTING LOCATION SHALL BE CLEAR OF OBSTRUCTIONS, DOORS, CEILINGS, WALLS, OTHER EQUIPMENT OR EQUIPMENT SUPPORTS, IS NOT PERMITTED.
4. PIPING NETWORK INSERTION INTO THE DETECTOR INLET SHALL NOT BE GLUED.
5. FLEXIBLE TUBING FOR TERMINATION OF SAMPLING PIPE NETWORK INTO DETECTOR INLET IS NOT PERMITTED.
6. ALL WIRING SHALL BE ACCOMPLISHED BY QUALIFIED PERSONNEL INSTALLED IN ACCORDANCE WITH SPECIFICATIONS, THE MANUFACTURER'S INSTALLATION AND INSTRUCTION MANUALS.
7. INSTALLATION TECHNIQUES SHALL BE IN COMPLIANCE WITH THE GEOGRAPHICAL SEISMIC ZONE REQUIREMENTS IN SEISMIC ZONES PER THE AHJ.



2 SINGLE-LEVEL COVERAGE CEILING LEVEL ONLY COVERAGE
DIAGRAMMATIC

NOTES:
1. SAMPLING POINT SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS.
2. WHERE THE STRUCTURAL CEILING IS OPEN TO THE FINISHED FLOOR, SAMPLING POINTS SHALL BE DRILLED DIRECTLY INTO THE AIR SAMPLING PIPE DISTRIBUTION NETWORK.
3. WHERE A DROP CEILING IS USED BELOW THE STRUCTURAL CEILING, SAMPLING POINTS SHALL BE CONSTRUCTED USING REMOTE SAMPLING POINTS MOUNTED TO THE UNDERSIDE OF THE DROP CEILING INTERCONNECTING WITH AIR SAMPLING PIPE DISTRIBUTION NETWORK VIA USE OF FLEXIBLE MANUFACTURER'S SUPPLIED CAPILLARY TUBING.
4. THE AIR SAMPLING PIPE NETWORK SHALL BE INSTALLED IN AN AREA ON THE CEILING THAT IS FREE FROM OBSTRUCTIONS FOR A MINIMUM OF 18 INCHES ON ALL SIDES OR A WAFFLE-LIKE CONSTRUCTION, ETC., PLACE SAMPLING POINTS IN ACCORDANCE WITH THE SPECIAL PROVISIONS IN NFPA-72.
5. SAMPLING POINTS SHALL BE INSTALLED IN AN AREA ON THE CEILING THAT IS FREE FROM OBSTRUCTIONS FOR A MINIMUM OF 18 INCHES ON ALL SIDES.



10 TYPICAL BENCHMARK TEST POINT MOUNTING DETAIL
DIAGRAMMATIC

NOTE:
1. BENCHMARK TEST POINT SHALL BE PROVIDED AT THE FURTHEST END OF EACH PIPE RUN, OPPOSITE END OF THE ASSD APPARATUS.
2. PROVISIONS SHALL BE MADE SO THAT THIS TEST POINT CAN BE LOCATED WITHIN 4 FT ABOVE FINISHED FLOOR.
3. HE TEST POINT SHALL BE CONSTRUCTED USING A NORMALLY CLOSED REMOVABLE END CAP WHEREBY A REPLACEMENT END CAP WITH PRE-CALIBRATED 1/8 INCH HOLE IS TEMPORARILY FITTED TO FACILITATE BENCHMARK PERFORMANCE VERIFICATION AS INDICATED IN THESE SPECIFICATIONS AND ON THE DRAWINGS.
4. THE TEST POINT SHALL BE LABELED "BENCHMARK TEST POINT" TO PREVENT ITS USE AS A DRAIN OR BLOW-OFF DURING ROUTINE TEST AND INSPECTION.
5. THE TEST POINT SHALL BE LABELED DOCUMENTING BENCHMARK SYSTEM PERFORMANCE AT TIME OF COMMISSIONING USING MANUFACTURER'S SUPPLIED LABELS INTENDED FOR THIS PURPOSE.
6. BENCHMARK LABELS SHALL BE PLACED JUST ABOVE TEST POINTS AND BE POSITIONED SO THAT THEY ARE VISIBLE WITHOUT OBSTRUCTION.
7. PROVIDE A DETAIL OF THIS TEST POINT ALONG WITH SIGNAGE INFORMATION FOR APPROVAL.

xtralis "The sooner you know." Please See the standard XTRALIS Disclaimer Below

A2019416 Owen's Intermediate

Qty	Item Description	Part Numbers	Notes
2	VESDA-E VEP with LEDs, 1 pipe. Requires external 24VDC Power Supply.	VEP-A00-1P	*****
2	VESDA Power Supply Unit	VPS-100US-120	*****
4	Battery, 12VDC, 12 amp/hour	VBT-012	Please Check Battery Calculation
1	VESDA pipe: 15' lengths of CPVC Pipe with 0.874 ID / 1.05 OD. Box quantity of 420 linear feet (28 pieces).	VP-P-420	*****
1	Coupling, 3/4" , Socket to Socket CPVC Couplings. Box of 15.	VP-COUP	*****
1	Socket Union, 3/4" CPVC Union. Box of 10.	VP-UNION	*****
1	Elbow - 90 Degree, 3/4", Socket to Socket, 90 degree CPVC Elbow. Box of 20.	VP-ELB-90	*****
1	Elbow - 45 Degree, 3/4", Socket to Socket, 45 degree CPVC Elbow. Box of 10.	VP-ELB-45	*****
1	Pipe Tees, 3/4" CPVC Pipe Tees. Box of 15.	VP-TEE	*****
1	End Cap, 3/4" CPVC. Box of 25.	VP-EC	*****
1	Solvent Cement, One (1) Pint	VP CEMENT	*****
2	VESDA-E Filter	VSP-962	*****
2 KIT	Clean Out Tee Kits	VSP-COT-KIT	For each pipe
1	Sampling Point Decal, wrap around style (Roll 200)	E700 - SP - DCL	*****
1	Test Point Pipe Labels - 12 labels per sheet.	VSP-950	*****
1	CPVC Pipe Cutters. Cuts up to 1 1/2" pipe.	VP-CUTTERS	*****

FLAG NOTES

1. BASIS OF DESIGN IS XTRALIS, INC VESDA AIR SAMPLING SMOKE DETECTION APPARATUS.
   PROVIDE NECESSARY UNIT(S) AND PIPING TO SAMPLE AREAS INDICATED ON THE DRAWINGS. PROVIDE THE FOLLOWING MONITORING PER AIR SAMPLING SMOKE DETECTION APPARATUS AS A MINIMUM TO THE FIRE ALARM CONTROL PANEL: POWER SUPERVISION, FAULT, PRE--ALARM AND ALARM CONDITIONS. PROVIDE ADDITIONAL MONITORING AS REQUIRED BASED ON THE MANUFACTURER'S RECOMMENDATIONS.
   MOUNT AIR SAMPLING SMOKE DETECTION APPARATUS 48 INCHES (1.2M) TO 60 INCHES (1.5M) TO TOP OF DETECTOR MEASURED ABOVE FINISHED FLOOR.
   REFER TO VESDA INSTALLATION DETAIL #1
2. PROVIDE LISTED AND APPROVED REGULATED POWER SUPPLY OF NOMINALLY 24VDC.
   POWER SUPPLY SHALL BE PROVIDED WITH APPROPRIATELY SIZED/RATED BATTERIES TO ACCOMMODATE THE SYSTEM(S) POWER REQUIREMENTS FOR A DURATION OF TIME REQUIRED BY THE LOCAL AHJ IN THE EVENT MAIN AC POWER IS INTERRUPTED.
3. AIR SAMPLING PIPE DISTRIBUTION NETWORKS SHALL BE CONSTRUCTED USING RIGID PIPE MOUNTED TO THE UNDERSIDE OF STRUCTURAL CEILING. REFER TO VESDA INSTALLATION DETAIL #3.
4. SAMPLING POINTS SHALL BE DRILLED DIRECTLY INTO THE AIR SAMPLING PIPE DISTRIBUTION NETWORKS. BE ORIENTED DOWNWARD AND BE WITHIN 1 TO 4 INCHES (25 TO 101MM) BELOW THE UNDERSIDE OF THE STRUCTURAL CEILING/ FALSE FLOOR. REFER TO VESDA INSTALLATION DETAIL #2 AND #3.
   FOR STRUCTURAL CEILINGS THAT HAVE BEAMS, GIRDERS, SOLID JOIST OR A WAFFLE--LIKE CONSTRUCTION, ETC., AIR SAMPLING PIPE DISTRIBUTION NETWORKS SHALL MOUNT TO THE UNDERSIDE OF STRUCTURAL BEAMS WITH STANCHIONS HAVING SAMPLING POINT EXTEND UP INTO EACH BEAM POCKET AT LOCATIONS WHERE SAMPLING POINTS ARE REQUIRED. REFER TO VESDA INSTALLATION DETAIL #3
   WHERE DROP CEILING ARE PRESENT SAMPLING POINTS SHALL BE REMOTELY MOUNTED TO THE UNDERSIDE OF THE DROP CEILING, BE ORIENTED DOWNWARD AND BE WITHIN 1 TO 4 INCHES (25 TO 101MM) BELOW UNDERSIDE OF THE DROP CEILING. REFER TO VESDA INSTALLATION DETAIL #4.
   SAMPLING POINTS SHALL BE A MINIMUM OF 4FT AWAY FROM AIR SUPPLY DIFFUSERS AND BE INSTALLED IN AN AREA ON THE CEILING THAT IS FREE FROM OBSTRUCTIONS FOR A MINIMUM OF 18 INCHES ON ALL SIDES..
   PLACEMENT OF SAMPLING POINTS NEAREST TO WALLS SHALL BE GREATER THAN 12 INCHES (304mm) AND NOT EXCEED 7FT (2.13m).
5. A BENCHMARK TEST POINT SHALL BE PROVIDED AT THE FURTHEST END OF EACH PIPE RUN, OPPOSITE END OF THE ASSD APPARATUS. PROVISIONS SHALL BE MADE SO THAT THE TEST POINT CAN BE LOCATED WITHIN 4FT (1.22M) ABOVE FINISHED FLOOR. THE TEST POINT SHALL BE CONSTRUCTED USING A NORMALLY CLOSED, REMOVABLE END CAP WHEREBY A REPLACEMENT END CAP WITH PRE--CALIBRATED 1/8 INCH HOLE IS TEMPORARILY FITTED TO FACILITATE BENCHMARK PERFORMANCE VERIFICATION AS INDICATED IN THESE SPECIFICATIONS AND ON THE DRAWINGS. THE TEST POINT IS INTENDED TO BE USED ONLY DURING COMMISSIONING AND INSPECTION. THE TEST POINT SHALL BE LABELED "BENCHMARK TEST POINT" TO PREVENT ITS USE AS A DRAIN OR BLOW--OFF DURING ROUTINE TEST AND INSPECTION. THE TEST POINT SHALL BE LABELED DOCUMENTING BENCHMARK SYSTEM PERFORMANCE AT TIME OF COMMISSIONING USING MANUFACTURER SUPPLIED LABELS INTENDED FOR THIS PURPOSE. BENCHMARK LABELS SHALL BE PLACED JUST ABOVE TEST POINTS AND BE POSITIONED SO THAT THEY ARE VISIBLE WITHOUT OBSTRUCTION. REFER TO VESDA INSTALLATION DETAIL #4

KEY NOTES (BLDG. L, J & I)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PROVIDE FATC, 6X6X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
2. PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
3. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM", #B1017BOX, WITH #B1017--51JH COVER BY, CHRISTY CONCRETE.
4. LOCATED ON ROOF CANOPY
5. PROVIDE FATC ON ROOFTOP CANOPY. COORDINATE EXACT LOCATION TO SUIT FIELD CONDITIONS.. 6X6X4 NEMA 3R PULLBOX W/TERMINAL BLOCKS.
6. SET SPEAKER FOR 1/4W.
7. SET SPEAKER FOR 1/2W.
8. SET SPEAKER FOR 1W.
9. SET SPEAKER FOR 2W.
10. HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING T--BAR CEILING.
11. HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON TILE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.
12. PROVIDE ACCESS HATCH FOR HEAT DETECTOR, AS REQUIRED.
13. PROVIDE 1/2"C. 2#14 TO EXISTING ROOF MOUNTED HVAC UNIT FOR AUTO SHUT DOWN.

GENERAL NOTES

1. SMOKE DETECTORS SHALL BE INSTALLED 3' AWAY FROM SUPPLY AND RETURN AIR GRILLES.
2. FINAL FIRE ALARM TEST OF ALL DEVICES SHALL BE WITNESSED BY THE PROJECT INSPECTOR. TEST SHALL INCLUDE ALL INFORMATION PER NFPA 72, FIGURE 14.6.2.4 AND READ OUT VERIFICATION FORM FROM CENTRAL STATION. TEST SHALL ALSO BE WITNESSED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A.H.J.).
3. UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATER--TIGHT FITTINGS (C.E.C. 110.11 AND 300.6).
4. AUDIBLE DEVICE(S) SHALL BE AT LEAST 15dbA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75dbA AT 10' OR MORE THAN 110 dbA IN TOTAL, THROUGHOUT! (NFPA 72 18.4.1 AND C.F.C. 907.6.2).
5. AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA CODE IN TEMPORAL PATTERN, CODE 3.
6. VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH PER SECOND. (NFPA 72 18.5.2.1).
7. PROVIDE AN ENGRAVED NAMEPLATE INDICATING THE D.S.A. APPLICATION NUMBER, FILE NUMBER AND DATE OF INSTALLATION AT FIRE ALARM POWER EXPANDER PANEL. WHITE LETTERS ON A RED BACKGROUND.
8. PROVIDE A COPY OF THE BATTERY CALCULATION AT THE FIRE ALARM POWER EXPANDER PANEL. BATTERY CALCULATION SHALL CONTAIN INFORMATION AS NOTED ON SCHEDULES AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF DOOR.
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11. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS.
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13. ALL JUNCTIONS BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
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16. WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, PROVIDE A FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
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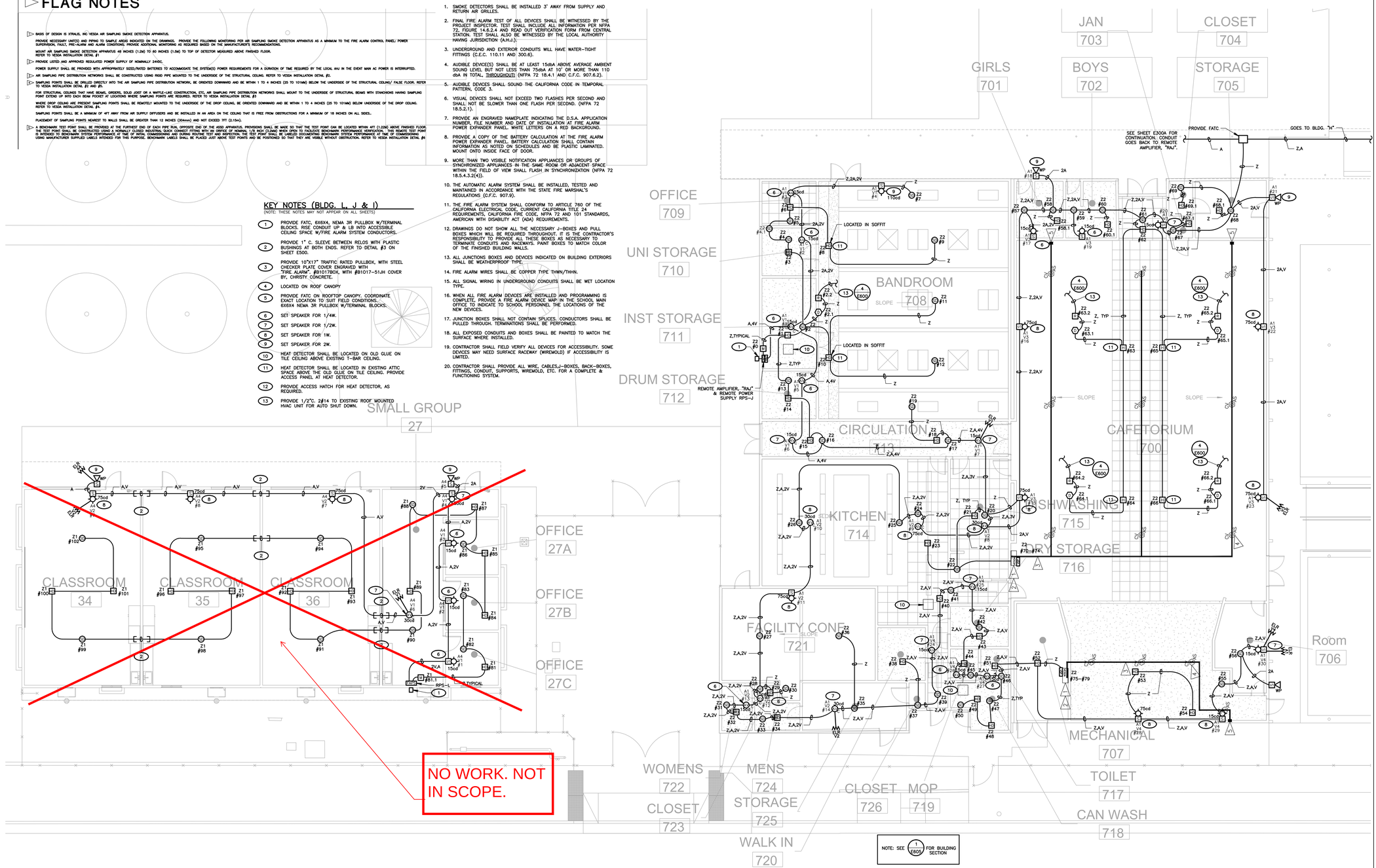

2 FIRE ALARM PLAN (BLDG L)
SCALE: 1/8"=1'-0"

1 FIRE ALARM PLAN (BLDGS J & I)
SCALE: 1/8"=1'-0"

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BAKERSFIELD CITY SCHOOL DISTRICT

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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/6/2020

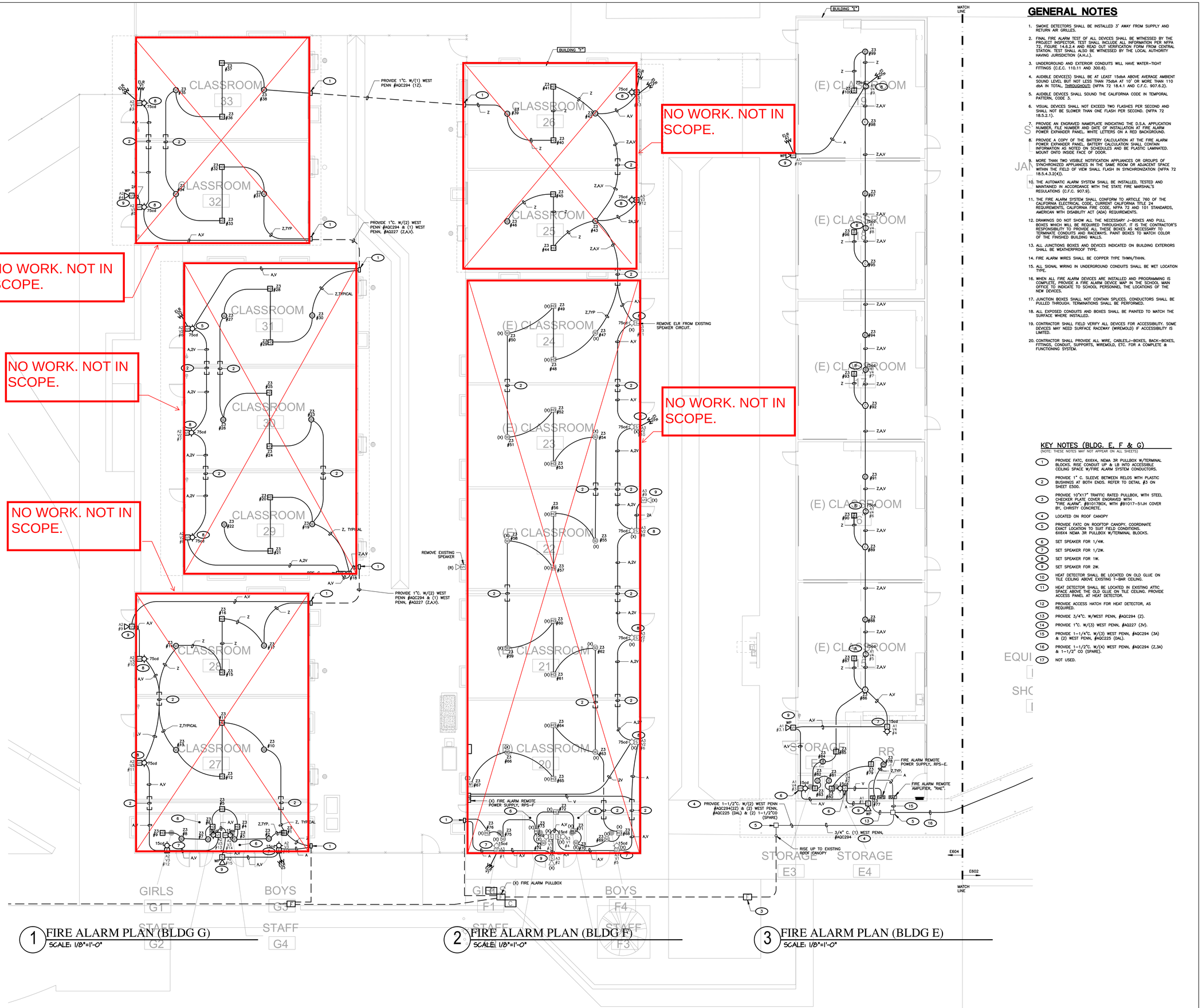
SHEET TITLE

FIRE ALARM PLAN BLDGS L & J, I

SHEET NUMBER PHASE III

E603

DSA SUBMITTAL SET



1 FIRE ALARM PLAN (BLDG G)
SCALE: 1/8"=1'-0"

2 FIRE ALARM PLAN (BLDG F)
SCALE: 1/8"=1'-0"

3 FIRE ALARM PLAN (BLDG E)
SCALE: 1/8"=1'-0"

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9. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES OR GROUPS OF SYNCHRONIZED APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION (NFPA 72 18.5.4.3.2(4)).
10. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (C.F.C. 907.9).
11. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS.
12. DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES TO MATCH COLOR OF THE FINISHED BUILDING WALLS.
13. ALL JUNCTIONS BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
14. FIRE ALARM WIRES SHALL BE COPPER TYPE THWN/THHN.
15. ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.
16. WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, PROVIDE A FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
17. JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH. TERMINATIONS SHALL BE PERFORMED.
18. ALL EXPOSED CONDUITS AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED.
19. CONTRACTOR SHALL FIELD VERIFY ALL DEVICES FOR ACCESSIBILITY. SOME DEVICES MAY NEED SURFACE RACEWAY (WIREMOLD) IF ACCESSIBILITY IS LIMITED.
20. CONTRACTOR SHALL PROVIDE ALL WIRE, CABLES,J-BOXES, BACK-BOXES, FITTINGS, CONDUIT, SUPPORTS, WIREMOLD, ETC. FOR A COMPLETE & FUNCTIONING SYSTEM.

KEY NOTES (BLDG. E, F & G)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PROVIDE FATC, 6X6X4, NEMA 3R PULLBOX W/TERMINAL BLOCKS. RISE CONDUIT UP & LB INTO ACCESSIBLE CEILING SPACE W/FIRE ALARM SYSTEM CONDUCTORS.
2. PROVIDE 1" C. SLEEVE BETWEEN RELOS WITH PLASTIC BUSHINGS AT BOTH ENDS. REFER TO DETAIL #3 ON SHEET E500.
3. PROVIDE 10"X17" TRAFFIC RATED PULLBOX, WITH STEEL CHECKER PLATE COVER ENGRAVED WITH "FIRE ALARM". #B1017BOX, WITH #B1017-51JH COVER BY, CHRISTY CONCRETE.
4. LOCATED ON ROOF CANOPY
5. PROVIDE FATC ON ROOFTOP CANOPY, COORDINATE EXACT LOCATION TO SUIT FIELD CONDITIONS. 6X6X4 NEMA 3R PULLBOX W/TERMINAL BLOCKS.
6. SET SPEAKER FOR 1/4W.
7. SET SPEAKER FOR 1/2W.
8. SET SPEAKER FOR 1W.
9. SET SPEAKER FOR 2W.
10. HEAT DETECTOR SHALL BE LOCATED ON OLD GLUE ON TILE CEILING ABOVE EXISTING T-BAR CEILING.
11. HEAT DETECTOR SHALL BE LOCATED IN EXISTING ATTIC SPACE ABOVE THE OLD GLUE ON TILE CEILING. PROVIDE ACCESS PANEL AT HEAT DETECTOR.
12. PROVIDE ACCESS HATCH FOR HEAT DETECTOR, AS REQUIRED.
13. PROVIDE 3/4"C. W/WEST PENN, #AQC294 (2).
14. PROVIDE 1"C. W/(3) WEST PENN, #AQ227 (3V).
15. PROVIDE 1-1/4"C. W/(3) WEST PENN, #AQC294 (3A) & (2) WEST PENN, #AQC225 (DAL).
16. PROVIDE 1-1/2"C. W/(4) WEST PENN, #AQC294 (2,3A) & 1-1/2" CO (SPARE).
17. NOT USED.

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CH'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

FIRE ALARM PLAN (BLDGS. E, F & G)

SHEET NUMBER PHASE III

E604

DSA SUBMITTAL SET

BLDG. K CEILING TYPE LEGEND

ROOM NUMBER	ROOM NAME	CEILING TYPE
102	JANITOR	T-BAR
105	PRINCIPAL	T-BAR
106	OFFICE 3	T-BAR
107	OFFICE 4	T-BAR
108	OFFICE 5	T-BAR
109	OFFICE 6	T-BAR
111	TEACHER'S WORK RM.	T-BAR
112	WORK ROOM	T-BAR
113	NURSE	T-BAR
114	FILES	T-BAR
115	RR	HARD LID W/ATTIC
117	CONF. ROOM	T-BAR
118	DATA	T-BAR
119	ELEC. ROOM	T-BAR
120	LIBRARY	T-BAR
121	OFFICE	T-BAR
122	TEACHER'S LOUNGE	T-BAR
124	GROUP STUDY	T-BAR
125	DATA	T-BAR
126	RR	HARD LID W/ATTIC
127	RR	HARD LID W/ATTIC
128	RR	HARD LID W/ATTIC
129	SUPPLIES	T-BAR
130	RR	HARD LID W/ATTIC
131	PARENT CENTER	T-BAR
101	LOBBY	T-BAR
103	OFFICE 1	T-BAR
104	OFFICE 2	T-BAR

BLDG. L CEILING TYPE LEGEND

ROOM NUMBER	ROOM NAME	CEILING TYPE
27A	OFFICE	T-BAR
27B	OFFICE	T-BAR
27C	OFFICE	T-BAR
27	SMALL GROUP	T-BAR
34	CLASSROOM	T-BAR
35	CLASSROOM	T-BAR
36	CLASSROOM	T-BAR

BLDG. J/I CEILING TYPE LEGEND

ROOM NUMBER	ROOM NAME	CEILING TYPE
701	GIRLS	HARD LID W/ATTIC
702	BOYS	HARD LID W/ATTIC
703	JANITOR	HARD LID W/ATTIC
704	CLOSET	HARD LID W/ATTIC
705	STORAGE	HARD LID W/ATTIC
700	CAFETORIUM	HARD LID AT ROOF JOIST. SOFFIT DOWN MIDDLE OF ROOM
706	ROOM	HARD LID AT ROOF JOIST (NO ATTIC)
707	MECHANICAL	HARD LID AT ROOF JOIST (NO ATTIC)
708	BANDROOM	HARD LID AT ROOF JOIST (NO ATTIC)
709	OFFICE	HARD LID W/ATTIC
710	UNI STORAGE	HARD LID W/ATTIC
711	INST STORAGE	HARD LID W/ATTIC
712	DRUM STORAGE	HARD LID W/ATTIC
713	CIRCULATION	HARD LID W/ATTIC
714	KITCHEN	HARD LID AT ROOF JOIST(NO ATTIC) PARTIAL HARD LID W/ATTIC
715	DISHWASHING	HARD LID W/ATTIC
716	DRY STORAGE	HARD LID W/ATTIC
717	TOILET	HARD LID W/ATTIC
718	CAN WASH	HARD LID W/ATTIC
719	MOP	HARD LID W/ATTIC
720	WALK IN	HARD LID W/ATTIC
721	FACULTY CONF.	HARD LID AT ROOF JOIST (NO ATTIC)
722	WOMENS	HARD LID W/ATTIC
723	CLOSET	HARD LID W/ATTIC
724	MENS	HARD LID W/ATTIC
725	STORAGE	HARD LID AT ROOF JOIST (NO ATTIC)
726	CLOSET	HARD LID AT ROOF JOIST (NO ATTIC)

BLDG. F/F1 CEILING TYPE LEGEND

ROOM NUMBER	ROOM NAME	CEILING TYPE
F1	GIRLS	HARD LID W/ATTIC
F2	STAFF	HARD LID W/ATTIC
F3	STAFF	HARD LID W/ATTIC
F4	BOYS	HARD LID W/ATTIC
20	CLASSROOM	T-BAR
21	CLASSROOM	HARD LID W/ATTIC
22	CLASSROOM	HARD LID W/ATTIC
23	CLASSROOM	HARD LID W/ATTIC
24	CLASSROOM	HARD LID W/ATTIC
25	CLASSROOM	HARD LID W/ATTIC
26	CLASSROOM	HARD LID W/ATTIC

BLDG. G CEILING TYPE LEGEND

ROOM NUMBER	ROOM NAME	CEILING TYPE
G1	GIRLS	HARD LID W/ATTIC
G2	STAFF	HARD LID W/ATTIC
G3	BOYS	HARD LID W/ATTIC
G4	STAFF	HARD LID W/ATTIC
27	CLASSROOM	T-BAR
28	CLASSROOM	T-BAR
29	CLASSROOM	T-BAR
30	CLASSROOM	T-BAR
31	CLASSROOM	T-BAR
32	CLASSROOM	T-BAR
33	CLASSROOM	T-BAR

BLDG. H CEILING TYPE LEGEND

ROOM NUMBER	ROOM NAME	CEILING TYPE
801	BOYS	HARD LID AT ROOF JOIST (NO ATTIC)
802	CUSTODIAN	HARD LID AT ROOF JOIST (NO ATTIC)
803	MULTIPUPOSE ROOM	EXPOSED ROOF JOIST (NO ATTIC)
804	MULTIPUPOSE ROOM	EXPOSED ROOF JOIST (NO ATTIC)
805	OFFICE	HARD LID AT ROOF JOIST (NO ATTIC)
806	STORAGE	HARD LID AT ROOF JOIST (NO ATTIC)

BLDG. B CEILING TYPE LEGEND

ROOM NUMBER	ROOM NAME	CEILING TYPE
1	CLASSROOM	T-BAR
2	CLASSROOM	T-BAR
3	CLASSROOM	T-BAR
4	CLASSROOM	T-BAR
5	CLASSROOM	T-BAR
B1	STORAGE	HARD LID AT ROOF JOIST (NO ATTIC)
B2	BOYS	HARD LID AT ROOF JOIST (NO ATTIC)
B3	STORAGE	HARD LID AT ROOF JOIST (NO ATTIC)
B4	JANITOR	HARD LID AT ROOF JOIST (NO ATTIC)
B5	HEATER ROOM	HARD LID AT ROOF JOIST (NO ATTIC)

BLDG. C CEILING TYPE LEGEND

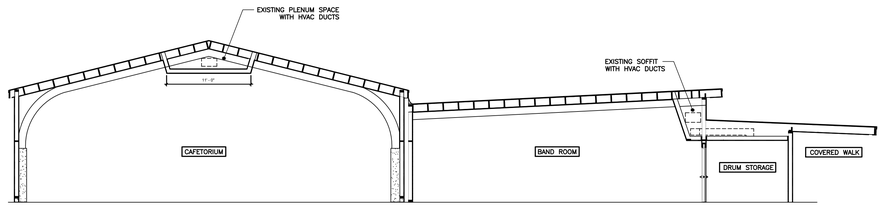
ROOM NUMBER	ROOM NAME	CEILING TYPE
6	CLASSROOM	T-BAR
7	CLASSROOM	T-BAR
8	CLASSROOM	T-BAR
9	CLASSROOM	T-BAR
10	CLASSROOM	T-BAR
C1	GIRLS	HARD LID AT ROOF JOIST (NO ATTIC)
C2	CLOSET	HARD LID AT ROOF JOIST (NO ATTIC)
C3	JANITOR	HARD LID AT ROOF JOIST (NO ATTIC)
C4	HEATER ROOM	HARD LID AT ROOF JOIST (NO ATTIC)

BLDG. D CEILING TYPE LEGEND

ROOM NUMBER	ROOM NAME	CEILING TYPE
11	CLASSROOM	T-BAR
12	CLASSROOM	T-BAR
13	MUSIC	T-BAR
14	SCIENCE	T-BAR
D1	BOYS	HARD LID AT ROOF JOIST (NO ATTIC)
D2	HEATER ROOM	HARD LID W/ATTIC
D3	SHOWER	HARD LID W/ATTIC
D4	EQUIPMENT	HARD LID AT ROOF JOIST (NO ATTIC)
D5	STORAGE	HARD LID AT ROOF JOIST (NO ATTIC)
D6	STORAGE	HARD LID AT ROOF JOIST (NO ATTIC)
D7	JANITOR	HARD LID AT ROOF JOIST (NO ATTIC)

BLDG. E CEILING TYPE LEGEND

ROOM NUMBER	ROOM NAME	CEILING TYPE
15	CLASSROOM	T-BAR
16	CLASSROOM	T-BAR
17	CLASSROOM	T-BAR
18	CLASSROOM	T-BAR
19	CLASSROOM	T-BAR
E1	RR	T-BAR
E2	STORAGE	HARD LID W/ATTIC
E3	STORAGE	HARD LID W/ATTIC
E4	STORAGE	HARD LID W/ATTIC



1 BUILDING SECTION (BLDGS J & I)
SCALE: NOT TO SCALE

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/6/2020

SHEET TITLE

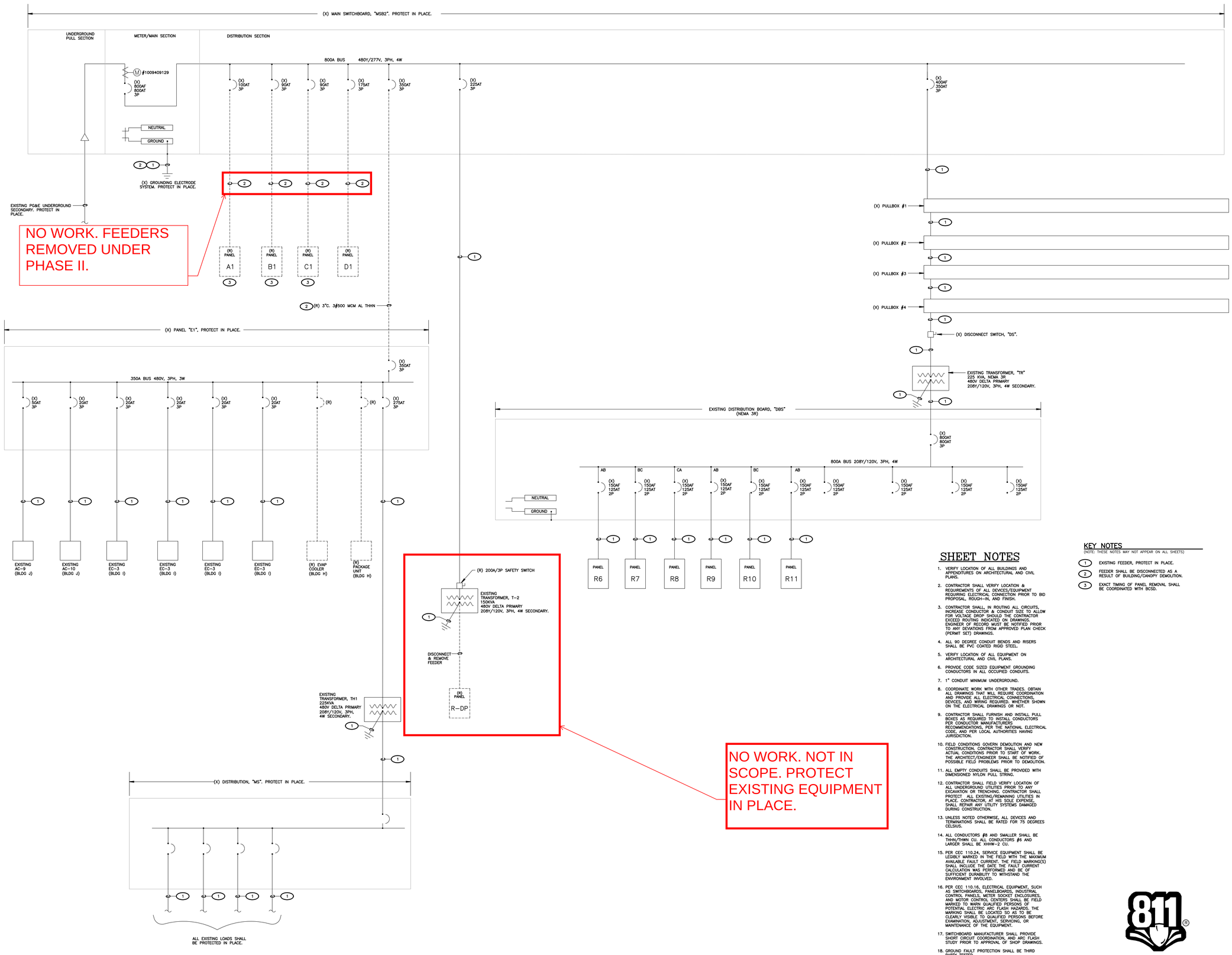
BUILDING CEILING TYPE LEGENDS, BUILDING SECTIONS

SHEET NUMBER

PHASE III

E605

DSA SUBMITTAL SET



SHEET NOTES

1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.
2. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
3. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
4. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
5. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
6. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. 1" CONDUIT MINIMUM UNDERGROUND.
8. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
9. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
10. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION.
11. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
12. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.
13. UNLESS NOTED OTHERWISE, ALL DEVICES AND TERMINATIONS SHALL BE RATED FOR 75 DEGREES CELSIUS.
14. ALL CONDUCTORS #8 AND SMALLER SHALL BE THHN/THWN CU. ALL CONDUCTORS #6 AND LARGER SHALL BE XHHW-2 CU.
15. PER CEC 110.24, SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
16. PER CEC 110.16, ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
17. SWITCHBOARD MANUFACTURER SHALL PROVIDE SHORT CIRCUIT COORDINATION, AND ARC FLASH STUDY PRIOR TO APPROVAL OF SHOP DRAWINGS.
18. GROUND FAULT PROTECTION SHALL BE THIRD PARTY TESTED.

KEY NOTES

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. EXISTING FEEDER, PROTECT IN PLACE.
2. FEEDER SHALL BE DISCONNECTED AS A RESULT OF BUILDING/CANOPY DEMOLITION.
3. EXACT TIMING OF PANEL REMOVAL SHALL BE COORDINATED WITH BCSD.

Know what's below. Call before you dig.

1 EXISTING SINGLE LINE DIAGRAM
SCALE: NOT TO SCALE

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DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

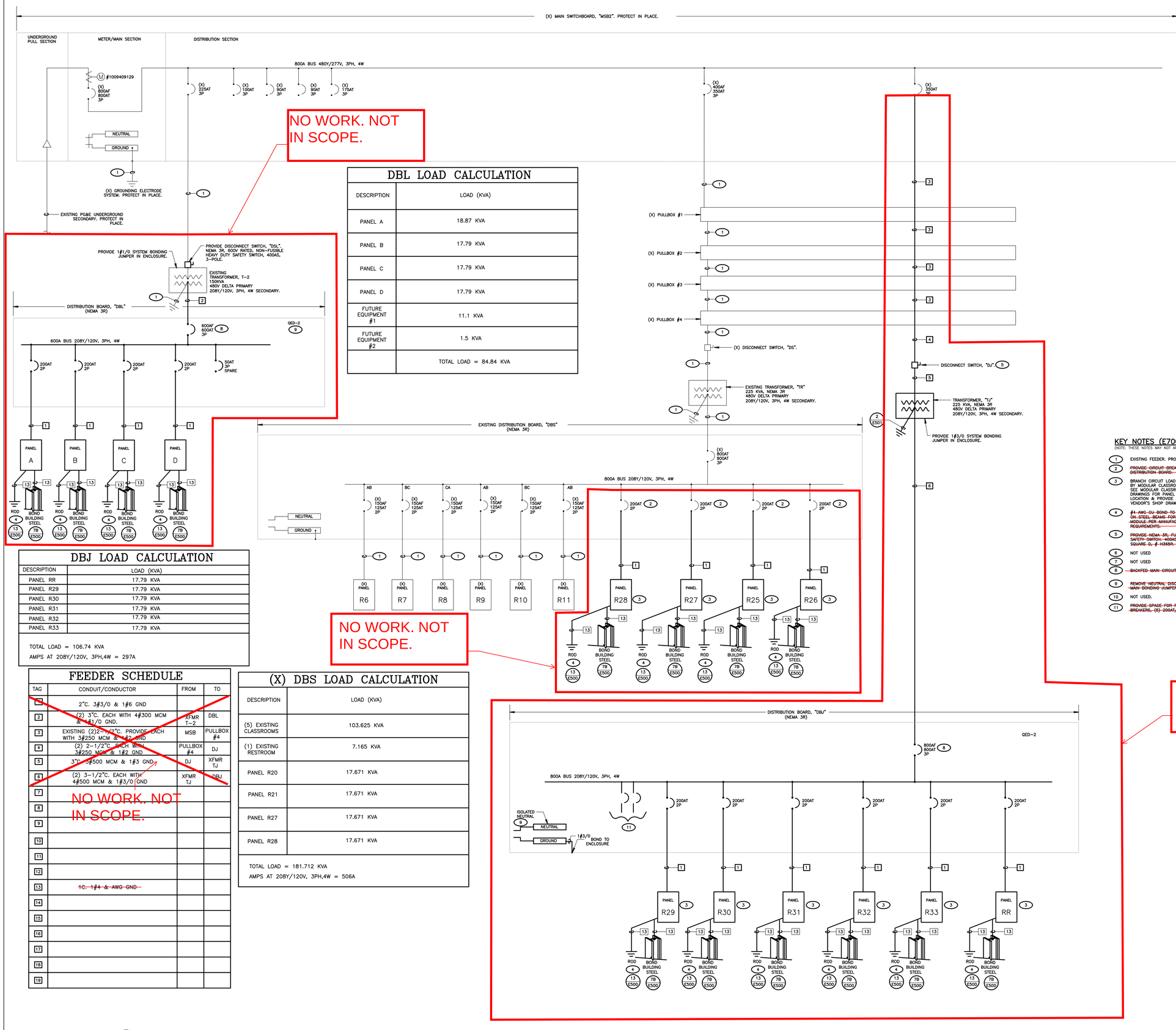
EXISTING SINGLE LINE DIAGRAM

SHEET NUMBER

PHASE III

E700A

DSA SUBMITTAL SET



DBL LOAD CALCULATION

DESCRIPTION	LOAD (KVA)
PANEL A	18.87 KVA
PANEL B	17.79 KVA
PANEL C	17.79 KVA
PANEL D	17.79 KVA
FUTURE EQUIPMENT #1	11.1 KVA
FUTURE EQUIPMENT #2	1.5 KVA
	TOTAL LOAD = 84.84 KVA

DBJ LOAD CALCULATION

DESCRIPTION	LOAD (KVA)
PANEL RR	17.79 KVA
PANEL R29	17.79 KVA
PANEL R30	17.79 KVA
PANEL R31	17.79 KVA
PANEL R32	17.79 KVA
PANEL R33	17.79 KVA

TOTAL LOAD = 106.74 KVA
AMPS AT 208Y/120V, 3PH,4W = 297A

FEEDER SCHEDULE

TAG	CONDUIT/CONDUCTOR	FROM	TO
1	2"C. 3#3/0 & 1#6 GND		
2	(2) 3"C. EACH WITH 4#300 MCM & 1#1/0 GND.	XFMR T-2	DBL
3	EXISTING (2)2-1/2"C. PROVIDE EACH WITH 3#250 MCM & 1#2 GND	MSB	PULLBOX #4
4	(2) 2-1/2"C. EACH WITH 3#250 MCM & 1#2 GND	PULLBOX #4	DJ
5	3"C. 3#500 MCM & 1#3 GND	DJ	XFMR TJ
6	(2) 3-1/2"C. EACH WITH 4#500 MCM & 1#3/0 GND	XFMR TJ	DBJ
7			
8			
9			
10			
11			
12			
13	~~1C. 1#4 & AWG GND~~		
14			
15			
16			
17			
18			
19			

NO WORK. NOT IN SCOPE.

(X) DBS LOAD CALCULATION

DESCRIPTION	LOAD (KVA)
(5) EXISTING CLASSROOMS	103.625 KVA
(1) EXISTING RESTROOM	7.165 KVA
PANEL R20	17.671 KVA
PANEL R21	17.671 KVA
PANEL R27	17.671 KVA
PANEL R28	17.671 KVA

TOTAL LOAD = 181.712 KVA
AMPS AT 208Y/120V, 3PH,4W = 506A

1 EXISTING SINGLE LINE DIAGRAM (MODIFIED)
SCALE: NOT TO SCALE

SHEET NOTES

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7. 1" CONDUIT MINIMUM UNDERGROUND.
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15. PER CEC 110.24, SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
16. PER CEC 110.16, ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
17. SWITCHBOARD MANUFACTURER SHALL PROVIDE SHORT CIRCUIT COORDINATION, AND ARC FLASH STUDY PRIOR TO APPROVAL OF SHOP DRAWINGS.
18. GROUND FAULT PROTECTION SHALL BE THIRD PARTY TESTED.

KEY NOTES (E700B)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. EXISTING FEEDER. PROTECT IN PLACE.
2. ~~PROVIDE CIRCUIT BREAKER IN EXISTING DISTRIBUTION BOARD.~~
3. BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
4. ~~#4 AWG CU BOND TO GROUNDING LUGS ON STEEL BEAMS FOR EACH TRAILER MODULE PER MANUFACTURER'S &THE AHJ REQUIREMENTS.~~
5. ~~PROVIDE NEMA 3R, FUSIBLE, HEAVY DUTY SAFETY SWITCH, 400AS, 3-POLE, SQUARE D, # H365R.~~
6. NOT USED
7. NOT USED
8. ~~BACKFED MAIN CIRCUIT BREAKER.~~
9. ~~REMOVE NEUTRAL DISCONNECT LINK, OR MAIN BONDING JUMPER, IF PRESENT.~~
10. NOT USED.
11. ~~PROVIDE SPACE FOR FUTURE CIRCUIT BREAKERS, (6) 200AT/2P.~~

811 Know what's below. Call before you dig.

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

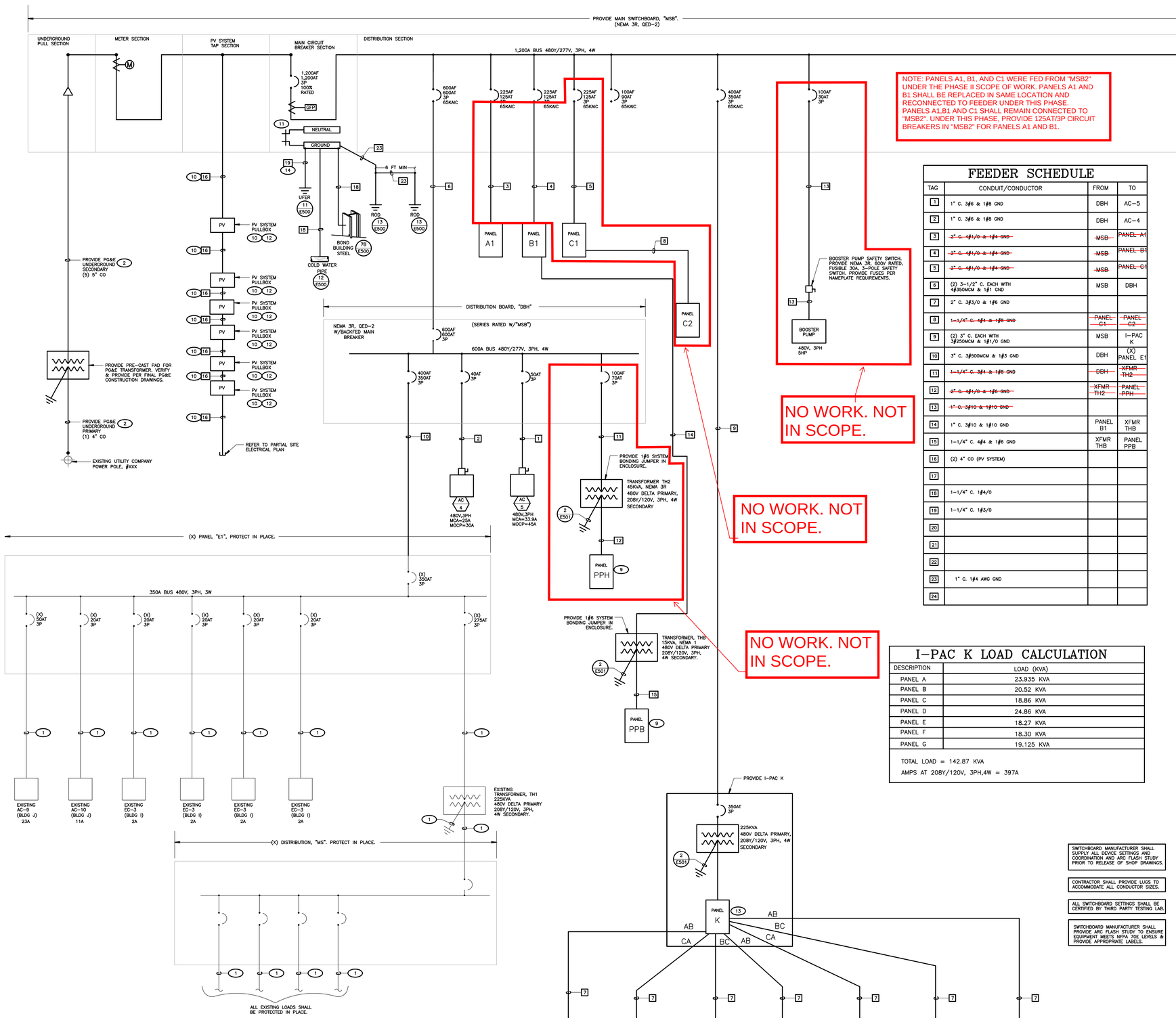
EXISTING SINGLE LINE DIAGRAM (MODIFIED)

SHEET NUMBER

PHASE III

E700B

DSA SUBMITTAL SET



FEEDER SCHEDULE

TAG	CONDUIT/CONDUCTOR	FROM	TO
1	1" C. 3#6 & 1#8 GND	DBH	AC-5
2	1" C. 3#6 & 1#8 GND	DBH	AC-4
3	~~2" C. 4#1/0 & 1#4 GND~~	~~MSB~~	~~PANEL A1~~
4	~~2" C. 4#1/0 & 1#4 GND~~	~~MSB~~	~~PANEL B1~~
5	~~2" C. 4#1/0 & 1#4 GND~~	~~MSB~~	~~PANEL C1~~
6	(2) 3-1/2" C. EACH WITH 4#350MCM & 1#1 GND	MSB	DBH
7	2" C. 3#3/0 & 1#6 GND		
8	~~1-1/4" C. 4#4 & 1#8 GND~~	~~PANEL C1~~	~~PANEL C2~~
9	(2) 3" C. EACH WITH 3#250MCM & 1#1/0 GND	MSB	I-PAC K
10	3" C. 3#500MCM & 1#3 GND	DBH	(X) PANEL E1
11	~~1-1/4" C. 3#4 & 1#8 GND~~	~~DBH~~	~~XFMR TH2~~
12	~~2" C. 4#1/0 & 1#6 GND~~	~~XFMR TH2~~	~~PANEL PPH~~
13	~~1" C. 3#10 & 1#10 GND~~		
14	1" C. 3#10 & 1#10 GND	PANEL B1	XFMR THB
15	1-1/4" C. 4#4 & 1#6 GND	XFMR THB	PANEL PPB
16	(2) 4" CO (PV SYSTEM)		
17			
18	1-1/4" C. 1#4/0		
19	1-1/4" C. 1#3/0		
20			
21			
22			
23	1" C. 1#4 AWG GND		
24			

I-PAC K LOAD CALCULATION

DESCRIPTION	LOAD (KVA)
PANEL A	23.935 KVA
PANEL B	20.52 KVA
PANEL C	18.86 KVA
PANEL D	24.86 KVA
PANEL E	18.27 KVA
PANEL F	18.30 KVA
PANEL G	19.125 KVA
TOTAL LOAD = 142.87 KVA AMPS AT 208Y/120V, 3PH,4W = 397A	

DBH LOAD CALCULATION

DESCRIPTION	LOAD (KVA)
PANEL E1	259.4 KVA
AC-4	20.8 KVA
AC-5	28.2 KVA
XFMRTH2	6.6 KVA
	TOTAL LOAD = 315 KVA AMPS AT 480Y/277V, 3PH,4W = 380A

SWITCHBOARD MANUFACTURER SHALL SUPPLY ALL DEVICE SETTINGS AND COORDINATION AND ARC FLASH STUDY PRIOR TO RELEASE OF SHOP DRAWINGS.

CONTRACTOR SHALL PROVIDE LUGS TO ACCOMMODATE ALL CONDUCTOR SIZES.

ALL SWITCHBOARD SETTINGS SHALL BE CERTIFIED BY THIRD PARTY TESTING LAB.

SWITCHBOARD MANUFACTURER SHALL PROVIDE ARC FLASH STUDY TO ENSURE EQUIPMENT MEETS NFPA 70E LEVELS & PROVIDE APPROPRIATE LABELS.

1 SINGLE LINE DIAGRAM
SCALE: NOT TO SCALE

SHEET NOTES

1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.
2. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES/EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH.
3. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
4. ALL 90 DEGREE CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
5. VERIFY LOCATION OF ALL EQUIPMENT ON ARCHITECTURAL AND CIVIL PLANS.
6. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. 1" CONDUIT MINIMUM UNDERGROUND.
8. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
9. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
10. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION.
11. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
12. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING/REMAINING UTILITIES IN PLACE. CONTRACTOR, AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITY SYSTEMS DAMAGED DURING CONSTRUCTION.
13. UNLESS NOTED OTHERWISE, ALL DEVICES AND TERMINATIONS SHALL BE RATED FOR 75 DEGREES CELSIUS.
14. ALL CONDUCTORS #8 AND SMALLER SHALL BE THHN/THWN CU. ALL CONDUCTORS #6 AND LARGER SHALL BE XHHW-2 CU.
15. PER CEC 110.24, SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
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17. SWITCHBOARD MANUFACTURER SHALL PROVIDE SHORT CIRCUIT COORDINATION, AND ARC FLASH STUDY PRIOR TO APPROVAL OF SHOP DRAWINGS.
18. GROUND FAULT PROTECTION SHALL BE THIRD PARTY TESTED.

KEY NOTES (E701/E702)

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. EXISTING FEEDER. PROTECT IN PLACE.
2. VERIFY & PROVIDE PER FINAL PG&E CONSTRUCTION DRAWINGS PRIOR TO STARTING CONSTRUCTION.
3. EXISTING PG&E METER SHALL BE DISCONNECTED & REMOVED. BLANK-OFF METER SOCKET IN A WAY THAT MAINTAINS U.L. LISTING OF EQUIPMENT. ALL WORK SHALL BE COORDINATED WITH PG&E COMPANY FINAL CONSTRUCTION DRAWINGS.
4. DISCONNECT & REMOVE MAIN BONDING JUMPER.
5. CONTRACTOR SHALL FIELD VERIFY EXACT POINT OF CONNECTION & PROVIDE ALL NECESSARY WORK & MATERIALS IN ORDER TO RECONNECT MSB2.
6. NOTE: EXACT TIMING OF CUT-OVER SHALL BE COORDINATED WITH PG&E COMPANY & BCSD. WORK SHALL BE PERFORMED AFTER HOURS IN ORDER TO MINIMIZE DISRUPTION TO SCHOOL SCHEDULE.
7. #4 AWG CU BOND TO GROUNDING LUGS ON STEEL BEAMS FOR EACH TRAILER MODULE PER MANUFACTURER'S & THE AHJ REQUIREMENTS.
8. BRANCH CIRCUIT LOAD CENTER PROVIDED BY MODULAR CLASSROOM MANUFACTURER. SEE MODULAR CLASSROOM SHOP DRAWINGS FOR PANEL SCHEDULE. VERIFY LOCATION & PROVIDE CONNECTION PER VENDOR'S SHOP DRAWINGS.
9. DO NOT BOND NEUTRAL BUS TO GROUND BUS AT THIS PANEL.
10. VERIFY & PROVIDE PER PV SYSTEM VENDOR SHOP DRAWINGS & APPROVED SUBMITTALS. SHOWN FOR COORDINATION ONLY. ALL WORK SHALL BE COORDINATED WITH PV SYSTEM ELECTRICAL DRAWINGS PRIOR TO STARTING CONSTRUCTION.
11. NOTE: PROVIDE 250Kcmil MAIN BONDING JUMPER IF FACTORY MAIN BONDING JUMPER NOT PRESENT.
12. REFER TO PARTIAL SITE ELECTRICAL PLANS FOR SPECIFICATION.
13. PROVIDE (7) 200A/2-POLE CIRCUIT BREAKERS IN THIS PANEL.
14. PROVIDE UFER IN CONCRETE HOUSEKEEPING PAD.

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BAKERSFIELD CITY SCHOOL DISTRICT

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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

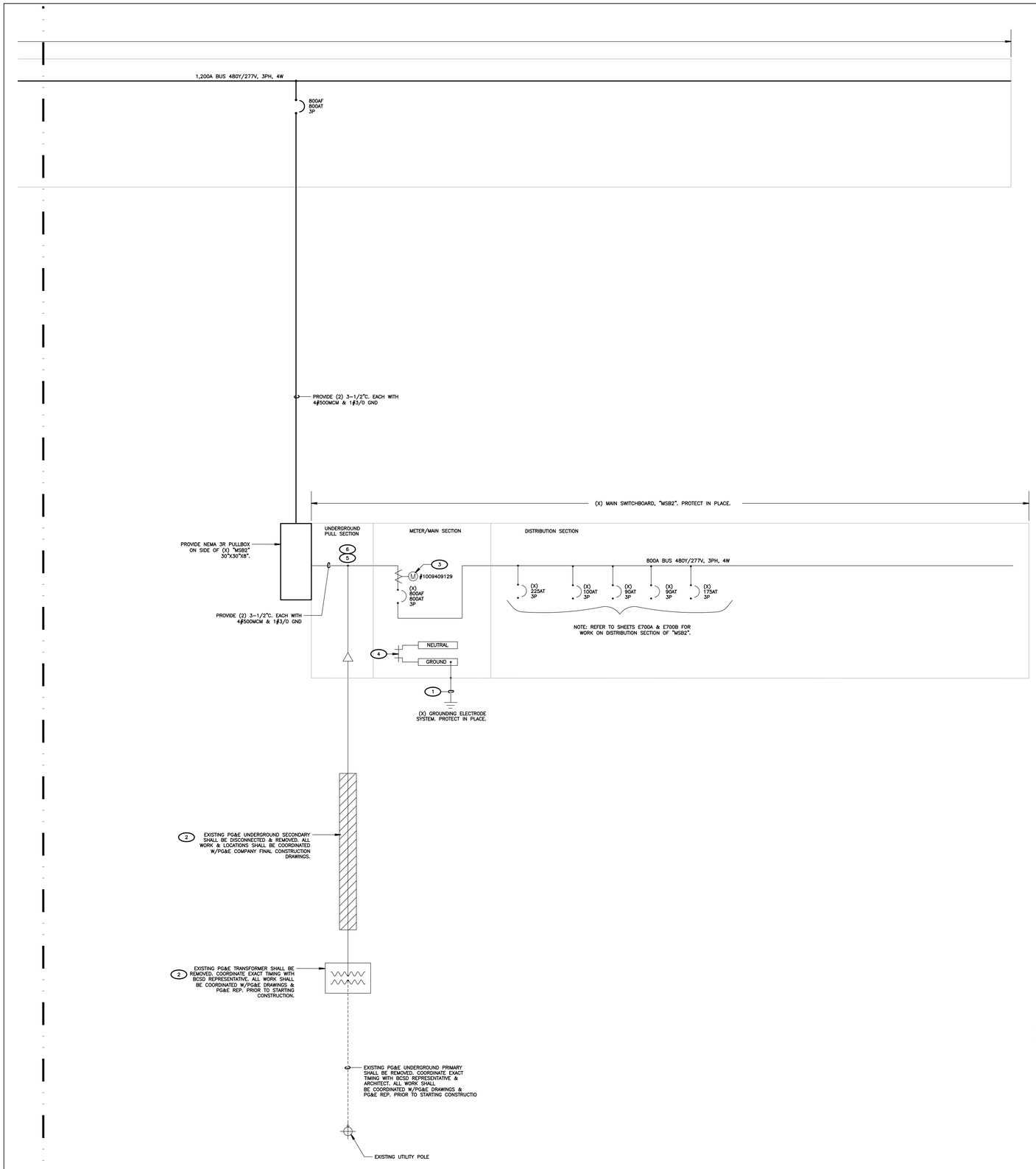
PROPOSED SINGLE LINE DIAGRAM SHEET #1

SHEET NUMBER

PHASE III

E701

DSA SUBMITTAL SET



1 SINGLE LINE DIAGRAM
SCALE: NOT TO SCALE

KEY NOTES
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. EXISTING FEEDER. PROTECT IN PLACE.
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SHEET NOTES

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6. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. 1" CONDUIT MINIMUM UNDERGROUND.
8. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED, WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
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17. SWITCHBOARD MANUFACTURER SHALL PROVIDE SHORT CIRCUIT COORDINATION, AND ARC FLASH STUDY PRIOR TO APPROVAL OF SHOP DRAWINGS.
18. GROUND FAULT PROTECTION SHALL BE THIRD PARTY TESTED.

Meter	Month	Year	Demand KW
7689252364	July	2018	143.68
7689252364	August	2018	250.56
7689252364	September	2018	236.48
7689252364	October	2018	223.36
7689252364	November	2018	132.48
7689252364	December	2018	95.68
7689252364	January	2019	93.12
7689252364	February	2019	115.84
7689252364	March	2019	106.24
7689252364	April	2019	182.4
7689252364	May	2019	208.32
7689252364	June	2019	171.84

LOAD CALCULATION

(X) SWITCHBOARD "MSB2" LOAD (A)
CALCULATED FROM METER READING DATA BETWEEN 7/2018 AND 6/2019:
DATA PROVIDED BY SCHOOL DISTRICT.

PEAK DEMAND	= 250.56KVA
(X) LOAD (KVA) = PEAK DEMAND X 1.25	= 313.2KVA
(X) LOAD (AMPS AT 480Y/277V, 3PH)	= 377A

DISTRIBUTION BOARD "DBC" ADDED LOAD TO "MS1"

(X) "MSB2" LOAD (KVA)	= 313.2KVA
"DBL" LOAD (KVA)	= 72.24KVA
PANELS R25-R28 (KVA)	= 70.684KVA
"DBJ" LOAD (KVA)	= 106.74KVA
PANEL A1 (KVA)	= 43.212KVA
PANEL B1 (KVA)	= 54.015KVA
PANEL C1 (KVA)	= 54.353KVA
AC-4 (KVA)	= 20.8KVA
AC-5 (KVA)	= 28.2KVA
XFMR TH2 (KVA)	= 6.6KVA
I-PAC K (KVA)	= 142.87KVA
TOTAL LOAD (KVA)	= 913KVA
TOTAL LOAD (AMPS AT 480Y/277, 3PH)	= 1,099A

2 MSB LOAD CALCULATION
SCALE: NOT TO SCALE

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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

PROPOSED SINGLE LINE DIAGRAM SHEET #2

SHEET NUMBER PHASE III

E702

DSA SUBMITTAL

PANEL **PPB** VOLTAGE **208Y/ 120V** PHASE **3** WIRE **4** MAIN **MAIN LUGS**
SOURCE **XFMR THB** A.I.C. **10,000** ENCLOSURE **NEMA 3R**
PANEL LOCATION **BLDG. C** BUS AMPERE RATING: **225** MOUNTING **SURFACE**

CKT	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	LOAD DESCRIPTION	LCL	OUTLETS MIS	OUTLETS REC	OUTLETS LTS	CIRCUIT BREAKER POL	CIRCUIT BREAKER TRP	BUS A	BUS B	BUS C	CIRCUIT BREAKER TRP	CIRCUIT BREAKER POL	OUTLETS LTS	OUTLETS REC	OUTLETS MIS	LCL	LOAD DESCRIPTION	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	CKT
1				BACKFED MAIN						60				20	1					RPS-B	500			2
3				BACKFED MAIN										20	1					EF-1, EF-2		500		4
5				BACKFED MAIN					3					20	1					SPARE			500	6
7														20	1					IRRIGATION CONTROL	500			8
9																								10
11																								12
13																								14
15																								16
17																								18
19																								20
21																								22
23																								24
25																								26
27																								28
29																								30
31																								32
33																								34
35																								36
37																								38
39																								40
41																								42
				SUBTOTALS																	1000	500	500	

LINE TOTALS	1,000	500	500
LCL ADDER			
TOTAL VA/PH	1,000	500	500
LINE AMPS	8	4	4

NOTES:

● PROVIDE RED HANDLE CIRCUIT BREAKER W/LOCK-ON DEVICE

PANEL **A1** VOLTAGE **480Y/ 277V** PHASE **3** WIRE **4** MAIN **125A MCB**
SOURCE **MSB** A.I.C. **10,000** ENCLOSURE **NEMA 3R**
PANEL LOCATION **ROOF BLDG D** BUS AMPERE RATING: **225** MOUNTING **SURFACE**

CKT	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	LOAD DESCRIPTION	LCL	OUTLETS MIS	OUTLETS REC	OUTLETS LTS	CIRCUIT BREAKER POL	CIRCUIT BREAKER TRP	BUS A	BUS B	BUS C	CIRCUIT BREAKER TRP	CIRCUIT BREAKER POL	OUTLETS LTS	OUTLETS REC	OUTLETS MIS	LCL	LOAD DESCRIPTION	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	CKT
1	3601			AC-3 (CLASS 11)						20				20						AC-3 (CLASS 13)	3601			2
3		3601		AC-3 (CLASS 11)																AC-3 (CLASS 13)		3601		4
5			3601	AC-3 (CLASS 11)					3					3						AC-3 (CLASS 13)			3601	6
7	3601			AC-3 (CLASS 12)						20				20						AC-3 (CLASS 14)	3601			8
9		3601		AC-3 (CLASS 12)																AC-3 (CLASS 14)		3601		10
11			3601	AC-3 (CLASS 12)					3					3						AC-3 (CLASS 14)			3601	12
13														15										14
15														2										16
17																								18
19																								20
21																								22
23																								24
25																								26
27																								28
29																								30
31																								32
33																								34
35																								36
37																								38
39																								40
41																								42
	7202	7202	7202	SUBTOTALS																	7202	7202	7202	

LINE TOTALS	14,404	14,404	14,404
LCL ADDER			
TOTAL VA/PH	14,404	14,404	14,404
LINE AMPS	52	52	52

NOTES:

PANEL **B1** VOLTAGE **480Y/ 277V** PHASE **3** WIRE **4** MAIN **125A MCB**
SOURCE **MSB** A.I.C. **10,000** ENCLOSURE **NEMA 3R**
PANEL LOCATION **ROOF BLDG C** BUS AMPERE RATING: **225** MOUNTING **SURFACE**

CKT	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	LOAD DESCRIPTION	LCL	OUTLETS MIS	OUTLETS REC	OUTLETS LTS	CIRCUIT BREAKER POL	CIRCUIT BREAKER TRP	BUS A	BUS B	BUS C	CIRCUIT BREAKER TRP	CIRCUIT BREAKER POL	OUTLETS LTS	OUTLETS REC	OUTLETS MIS	LCL	LOAD DESCRIPTION	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	CKT
1	3601			AC-3 (CLASS 6)						20				20						AC-3 (CLASS 9)	3601			2
3		3601		AC-3 (CLASS 6)																AC-3 (CLASS 9)		3601		4
5			3601	AC-3 (CLASS 6)					3					3						AC-3 (CLASS 9)			3601	6
7	3601			AC-3 (CLASS 7)						20				20						AC-3 (CLASS 10)	3601			8
9		3601		AC-3 (CLASS 7)																AC-3 (CLASS 10)		3601		10
11			3601	AC-3 (CLASS 7)					3					3						AC-3 (CLASS 10)			3601	12
13	3601			AC-3 (CLASS 8)						20				20						SPARE				14
15		3601		AC-3 (CLASS 8)																SPARE				16
17			3601	AC-3 (CLASS 8)					3					3						SPARE				18
19				XFMR THB						30				15										20
21				XFMR THB										2										22
23				XFMR THB					3															24
25																								26
27																								28
29																								30
31																								32
33																								34
35																								36
37																								38
39																								40
41																								42
	10803	10803	10803	SUBTOTALS																	7202	7202	7202	

LINE TOTALS	18,005	18,005	18,005
LCL ADDER			
TOTAL VA/PH	18,005	18,005	18,005
LINE AMPS	65	65	65

NOTES:

PANEL **C1** VOLTAGE **480Y/ 277V** PHASE **3** WIRE **4** MAIN **125A MCB**
SOURCE **MSB** A.I.C. **10,000** ENCLOSURE **NEMA 3R**
PANEL LOCATION **ROOF BLDG B** BUS AMPERE RATING: **225** MOUNTING **SURFACE**

CKT	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	LOAD DESCRIPTION	LCL	OUTLETS MIS	OUTLETS REC	OUTLETS LTS	CIRCUIT BREAKER POL	CIRCUIT BREAKER TRP	BUS A	BUS B	BUS C	CIRCUIT BREAKER TRP	CIRCUIT BREAKER POL	OUTLETS LTS	OUTLETS REC	OUTLETS MIS	LCL	LOAD DESCRIPTION	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	CKT
1	3601			AC-3 (CLASS 1)						20				20						AC-3 (CLASS 4)	3601			2
3		3601		AC-3 (CLASS 1)																AC-3 (CLASS 4)		3601		4
5			3601	AC-3 (CLASS 1)					3					3						AC-3 (CLASS 4)			3601	6
7	3601			AC-3 (CLASS 2)						20				20						AC-3 (CLASS 5)	3601			8
9		3601		AC-3 (CLASS 2)																AC-3 (CLASS 5)		3601		10
11			3601	AC-3 (CLASS 2)					3					3						AC-3 (CLASS 5)			3601	12
13	3601			AC-3 (CLASS 3)						20				20						SPARE				14
15		3601		AC-3 (CLASS 3)																SPARE				16
17			3601	AC-3 (CLASS 3)					3					3						SPARE				18
19										15														20
21										2														22
23														60						PANEL C2				24
25																				PANEL C2				26
27										3										PANEL C2				28
29																								30
31																								32
33																								34
35																								36
37																								38
39																								40
41																								42
	10803	10803	10803	SUBTOTALS																	7202	7202	7202	

LINE TOTALS	18,005	18,005	18,005
LCL ADDER			
TOTAL VA/PH	18,005	18,005	18,005
LINE AMPS	65	65	65

NOTES:

PANEL **PPH** VOLTAGE **208Y/ 120V** PHASE **3** WIRE **4** MAIN **100A MCB**
SOURCE **XFMR TH2** A.I.C. **10,000** ENCLOSURE **NEMA 3R**
PANEL LOCATION **BLDG. H** BUS AMPERE RATING: **225** MOUNTING **SURFACE**

CKT	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	LOAD DESCRIPTION	LCL	OUTLETS MIS	OUTLETS REC	OUTLETS LTS	CIRCUIT BREAKER POL	CIRCUIT BREAKER TRP	BUS A	BUS B	BUS C	CIRCUIT BREAKER TRP	CIRCUIT BREAKER POL	OUTLETS LTS	OUTLETS REC	OUTLETS MIS	LCL	LOAD DESCRIPTION	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	CKT
1	3183			HP-1						50										SPACE				2
3		3183		HP-1						2										SPACE				4
5			180	EXT. RECEPTACLE					1	20				20	1					FIRE ALARM, RPS-H			500	6
7				SPACE																SPACE				8
9																								10
11																								12
13																								14
15																								16
17																								18
19																								20
21																								22
23																								24
25																								26
27																								28
29																								30
31																								32
33																								34
35																								36
37																								38
39																								40
41																								42
	3183	3183	180	SUBTOTALS																			500	

LINE TOTALS	3,183	3,183	680
LCL ADDER			
TOTAL VA/PH	3,183	3,183	680
LINE AMPS	27	27	6

NOTES:

● PROVIDE RED HANDLE CIRCUIT BREAKER W/LOCK-ON DEVICE

(X) PANEL

PANEL **E1** VOLTAGE **480V** PHASE **3** WIRE **3** MAIN **350A MCB**
SOURCE A.I.C. **10,000** ENCLOSURE **NEMA 3R**
PANEL LOCATION **ROOF BLDG H** BUS AMPERE RATING: **350** MOUNTING **SURFACE**

CKT	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	LOAD DESCRIPTION	LCL	OUTLETS MIS	OUTLETS REC	OUTLETS LTS	CIRCUIT BREAKER POL	CIRCUIT BREAKER TRP	BUS A	BUS B	BUS C	CIRCUIT BREAKER TRP	CIRCUIT BREAKER POL	OUTLETS LTS	OUTLETS REC	OUTLETS MIS	LCL	LOAD DESCRIPTION	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	CKT
1																								2
3																								4
5																								6
7																								8
9																								10
11																								12
13																								14
15																								16
17																								18
19																								20
21																								22
23																								24
25																								26
27																								28
29																								30
31																								32
33																								34
35																								36
37																								38
39																								40
41																								42
				SUBTOTALS																				

LINE TOTALS			
LCL ADDER			
TOTAL VA/PH			
LINE AMPS			

NOTES:

EXISTING PANEL GENERAL NOTES:
1. UON, ALL LOAD DESCRIPTIONS ARE EXISTING.
2. UON, ALL CIRCUIT BREAKERS DESIGNATED IN PANEL SCHEDULE ARE EXISTING.

(X) PANEL

PANEL **H** VOLTAGE **208Y/ 120V** PHASE **3** WIRE **4** MAIN **MAIN LUGS**
SOURCE A.I.C. **10,000** ENCLOSURE **NEMA 1**
PANEL LOCATION **BLDG H** BUS AMPERE RATING: **225** MOUNTING **FLUSH**

CKT	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	LOAD DESCRIPTION	LCL	OUTLETS MIS	OUTLETS REC	OUTLETS LTS	CIRCUIT BREAKER POL	CIRCUIT BREAKER TRP	BUS A	BUS B	BUS C	CIRCUIT BREAKER TRP	CIRCUIT BREAKER POL	OUTLETS LTS	OUTLETS REC	OUTLETS MIS	LCL	LOAD DESCRIPTION	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	CKT
1				COUNTER REC					1	20				20	1					SPARE				2
3				LIGHTS ROOM 9																LIGHTS ROOM 8				4
5				LIGHTS ROOM 7																LIGHTS ROOM 8				6
7				LIGHTS ROOM 7																BO				8
9				LIGHTS ROOM 5																LTS. RM. 1,2,3,4				10
11				LIGHTS ROOM 5																LTS. CORR & E F1				12
13				RECEPTS ROOM 1 & 5																TIME SW. NITE LT.				14
15				RECEPTS ROOM 1 & 5																RECEPTS ROOM 6 & 9				16
17				LIGHTS ROOM 8																LIGHTS 1				18
19				TELEPHONE						30										SPARE				20
21				SPARE					2					50						AC-2 (CLASS 15)				22
23				AC-1						40										AC-2 (CLASS 15)				24
25				AC-1					2						3					AC-2 (CLASS 15)				26
27				SPACE																SPACE				28
29									1	20				20	1									30
31				AC-2 (CLASS 18)						50				50						AC-2 (CLASS 16)				32
33				AC-2 (CLASS 18)																AC-2 (CLASS 16)				34
35				AC-2 (CLASS 18)					3					50	3					AC-2 (CLASS 16)				36
37				AC-2 (CLASS 17)						50				50						AC-2 (CLASS 19)				38
39				AC-2 (CLASS 17)																AC-2 (CLASS 19)				40
41				AC-2 (CLASS 17)					3					50	3					AC-2 (CLASS 19)				42
	270			SUBTOTALS																				

LINE TOTALS	270		
LCL ADDER	68		
TOTAL VA/PH	338		
LINE AMPS	3		

NOTES:

PANEL **C2** VOLTAGE **480Y/ 277V** PHASE **3** WIRE **4** MAIN **MAIN LUGS**
SOURCE **PANEL C1** A.I.C. **14,000** ENCLOSURE **NEMA 1**
PANEL LOCATION BUS AMPERE RATING: **225** MOUNTING **SURFACE**

CKT	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	LOAD DESCRIPTION	LCL	OUTLETS MIS	OUTLETS REC	OUTLETS LTS	CIRCUIT BREAKER POL	CIRCUIT BREAKER TRP	BUS A	BUS B	BUS C	CIRCUIT BREAKER TRP	CIRCUIT BREAKER POL	OUTLETS LTS	OUTLETS REC	OUTLETS MIS	LCL	LOAD DESCRIPTION	VA LOAD LINE A	VA LOAD LINE B	VA LOAD LINE C	CKT
1	270			PARKING LOT LIGHTS	X				1	20										SPACE				2
3				SPACE																				4
5																								6
7																								8
9																								10
11																								12
13																								14
15																								16
17																								18
19																								20
21																								22
23																								24
25																								26
27																								28
29																								30
31																								32
33																								34
35																								36
37																								38
39																								40
41																								42
	270			SUBTOTALS																				

LINE TOTALS	270		
LCL ADDER	68		
TOTAL VA/PH	338		
LINE AMPS	3		

NOTES:

EXISTING PANEL GENERAL NOTES:
1. UON, ALL LOAD DESCRIPTIONS ARE EXISTING.
2. UON, ALL CIRCUIT BREAKERS DESIGNATED IN PANEL SCHEDULE ARE EXISTING.

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

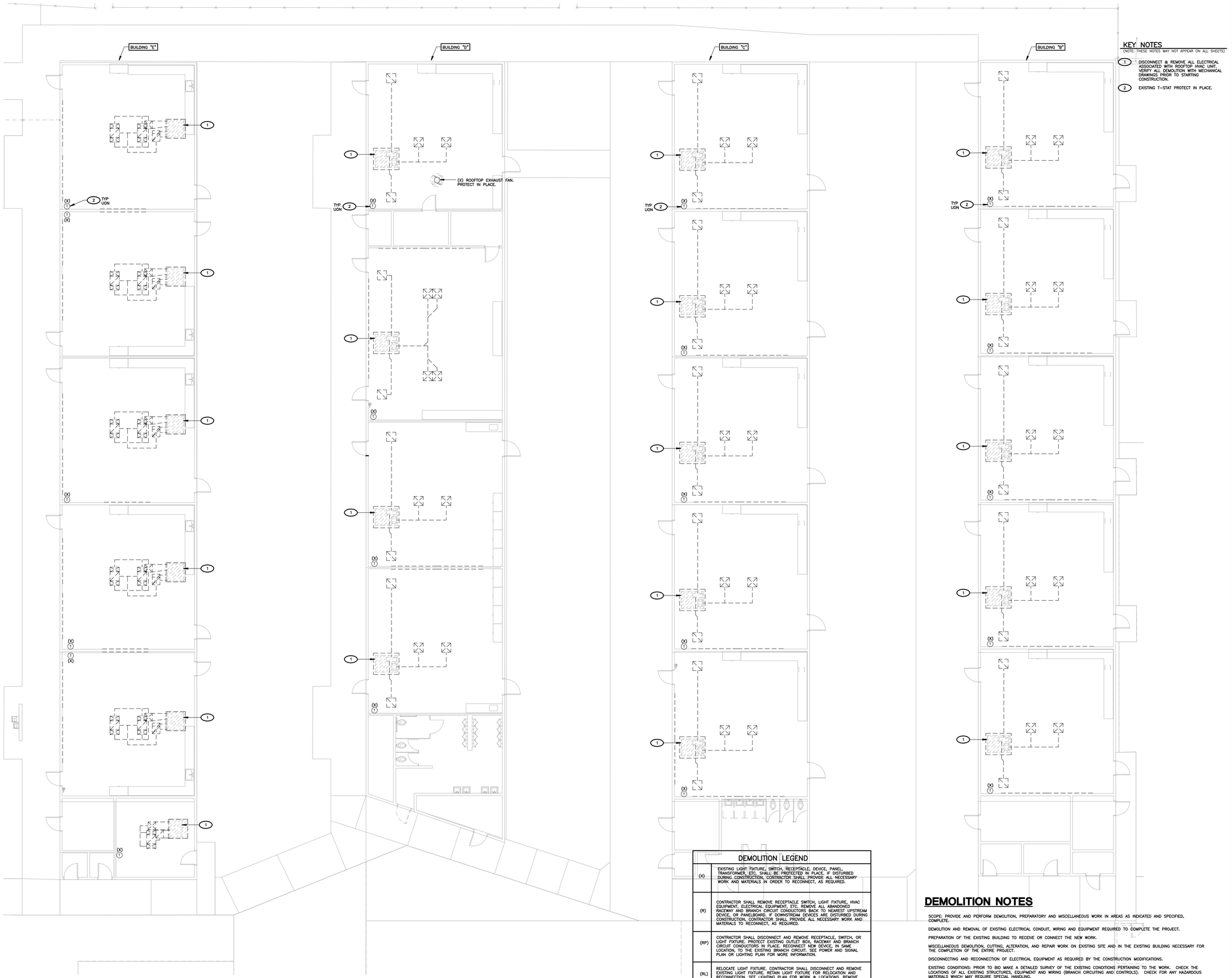
PANEL SCHEDULES

SHEET NUMBER

PHASE III

E703

DSA SUBMITTAL SET



1 MECHANICAL EQUIPMENT ELECTRICAL DEMOLITION PLAN (BLDG'S B, C, D, & E
SCALE: 1/8"=1'-0"

KEY NOTES
(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. DISCONNECT & REMOVE ALL ELECTRICAL ASSOCIATED WITH ROOFTOP HVAC UNIT. VERIFY ALL DEMOLITION WITH MECHANICAL DRAWINGS PRIOR TO STARTING CONSTRUCTION.
2. EXISTING T-STAT PROTECT IN PLACE.

DEMOLITION LEGEND

(X)	EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC., SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.
(R)	CONTRACTOR SHALL REMOVE RECEPTACLE SWITCH, LIGHT FIXTURE, HVAC EQUIPMENT, ELECTRICAL EQUIPMENT, ETC. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED.
(RP)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE, IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION.
(RL)	RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.

DEMOLITION NOTES

SCOPE: PROVIDE AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN AREAS AS INDICATED AND SPECIFIED, COMPLETE.

DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL CONDUIT, WIRING AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT.

PREPARATION OF THE EXISTING BUILDING TO RECEIVE OR CONNECT THE NEW WORK.

MISCELLANEOUS DEMOLITION, CUTTING, ALTERATION, AND REPAIR WORK ON EXISTING SITE AND IN THE EXISTING BUILDING NECESSARY FOR THE COMPLETION OF THE ENTIRE PROJECT.

DISCONNECTING AND RECONNECTION OF ELECTRICAL EQUIPMENT AS REQUIRED BY THE CONSTRUCTION MODIFICATIONS.

EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND WIRING (BRANCH CIRCUITING AND CONTROLS). CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.

SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL, OTHER THAN ITEMS TO BE REUSED, SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY FEES AND CHARGES FOR DISPOSAL.

TWO WEEKS PRIOR TO THE START OF ANY WORK, CONTRACTOR SHALL SCHEDULE ALL WORK AND ELECTRICAL SYSTEM OUTAGES WITH OWNER'S WRITTEN APPROVAL.

PROTECT ALL EXISTING POWER, MOTORS AND RELATED EQUIPMENT, ALARM SYSTEM, LIGHTING AND CONTROL SYSTEMS, AND TELEPHONE EQUIPMENT IN PLACE, UNLESS OTHERWISE NOTED.

CONTRACTOR SHALL LEAVE ALL POWER AND SIGNAL CIRCUITS ENRGIZED, VIA JUNCTION BOX, TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF SYSTEMS ARE ROUTED THROUGH DEMOLITION AREA.

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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE **MECHANICAL EQUIPMENT ELECTRICAL DEMOLITION PLAN (BLDG'S B, C, D, & E)**

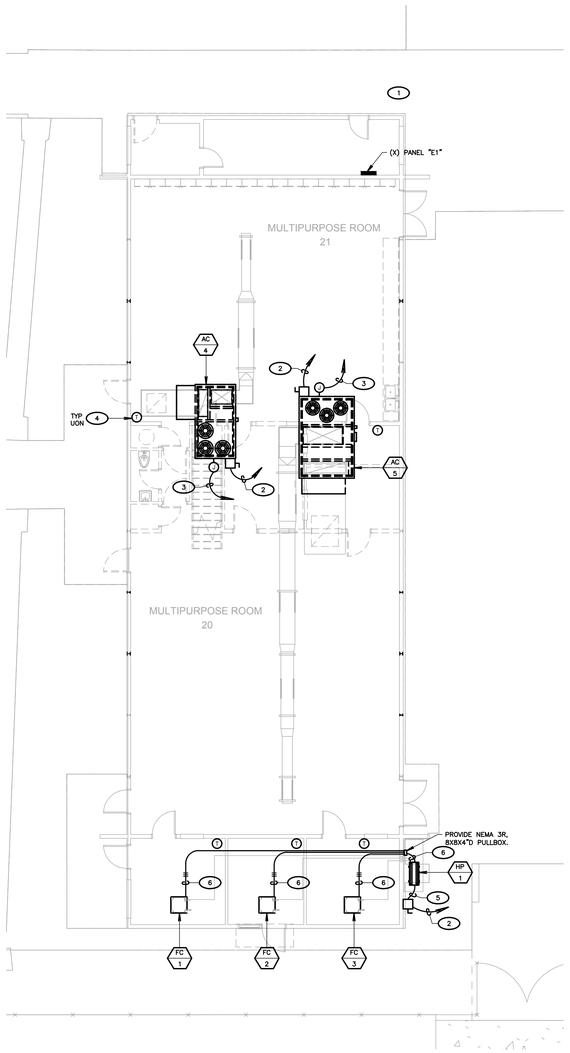
SHEET NUMBER PHASE III

E800

DSA SUBMITTAL SET

MECHANICAL PLAN SHEET NOTES

1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
2. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
3. THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.
5. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER THE NATIONAL ELECTRICAL CODE.
6. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
7. PROVIDE ALL DEVICES AND CONNECTIONS AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
8. ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON MECHANICAL (HVAC) UNIT.
9. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN, AND INSTALLATION.
10. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
11. EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTARCTOR PROVIDED.
12. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
13. 3/4" CONDUIT MINIMUM, UON.
14. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
15. VERIFY AND PROVIDE CONTROLS TO ALL UNITS, PER MECHANICAL CONTRACTOR APPROVED SHOP DRAWINGS AND SUBMITTALS.



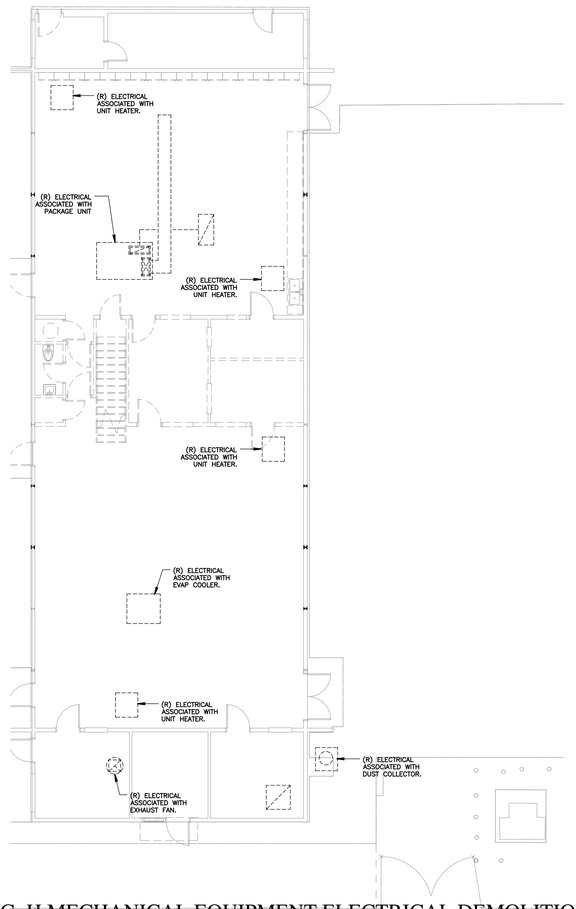
2 BLDG. H MECHANICAL EQUIPMENT POWER PLAN

SCALE: 1/8"=1'-0"

MECHANICAL KEY NOTES

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PANEL LOCATED ON ROOF. EXACT LOCATION SHALL BE VERIFIED IN THE FIELD.
2. SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR DISCONNECT, FEEDER, FUSES, ETC. REQUIREMENTS.
3. 1/2" C. & CABLING TO HVAC CONTROL. VERIFY & PROVIDE PER MECHANICAL CONTRACTOR'S APPROVED SHOP DRAWINGS & SUBMITTALS.
4. PROVIDE 4S BOX WITH SINGLE GANG PLASTER RING & 1/2" CO. TO POINT OF CONTROL. VERIFY & PROVIDE PER MECHANICAL CONTRACTOR'S APPROVED SHOP DRAWINGS & SUBMITTALS. COORDINATE EXACT LOCATION WITH MECHANICAL.
5. PROVIDE LIQUIDTITE (LFMC) 3/4" C.
6. PROVIDE ALL REQUIRED CONDUIT & CONDUCTORS TO CONNECT POWER FROM OUTDOOR UNIT TO INDOOR UNIT(S). VERIFY & PROVIDE PER MECHANICAL CONTRACTOR APPROVED SHOP DRAWINGS & SUBMITTALS.



1 BLDG. H MECHANICAL EQUIPMENT ELECTRICAL DEMOLITION PLAN

SCALE: 1/8"=1'-0"

POWER SHEET NOTES

1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
5. 3/4" CONDUIT MINIMUM, UON.
6. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
8. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
9. ALL CONDUIT RUNS SHALL BE CONCEALED IN WALLS OR ROUTED ABOVE THE CEILING/ACCESSIBLE CEILING SPACE.
10. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE WALL.
11. MOUNTING HEIGHT OF ALL RECEPTACLES AT COUNTER TOPS SHALL BE VERIFIED WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
12. PROVIDE GFCI TYPE RECEPTACLE WITHIN 6 FEET OF ANY SINK.
13. CONTRACTOR SHALL PROVIDE A PERMANENT MARKING IN ORDER TO DIFFERENTIATE OCCUPANCY CONTROLLED RECEPTACLES FROM THE UNCONTROLLED RECEPTACLES. VERIFY ACCEPTABLE MEANS OF PERMANENT MARKING WITH THE AHJ.

DEMOLITION LEGEND

(X)	EXISTING LIGHT FIXTURE, SWITCH, RECEPTACLE, DEVICE, PANEL, TRANSFORMER, ETC. SHALL BE PROTECTED IN PLACE. IF DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS IN ORDER TO RECONNECT, AS REQUIRED.
(R)	CONTRACTOR SHALL REMOVE RECEPTACLE SWITCH, LIGHT FIXTURE, HVAC EQUIPMENT, ELECTRICAL EQUIPMENT, ETC. REMOVE ALL ABANDONED RACEWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO NEAREST UPSTREAM DEVICE, OR PANELBOARD. IF DOWNSTREAM DEVICES ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK AND MATERIALS TO RECONNECT, AS REQUIRED.
(RP)	CONTRACTOR SHALL DISCONNECT AND REMOVE RECEPTACLE, SWITCH, OR LIGHT FIXTURE. PROTECT EXISTING OUTLET BOX, RACEWAY AND BRANCH CIRCUIT CONDUCTORS IN PLACE. RECONNECT NEW DEVICE, IN SAME LOCATION, TO THE EXISTING BRANCH CIRCUIT. SEE POWER AND SIGNAL PLAN OR LIGHTING PLAN FOR MORE INFORMATION.
(RL)	RELOCATE LIGHT FIXTURE. CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN LIGHT FIXTURE FOR RELOCATION AND RECONNECTION. SEE LIGHTING PLAN FOR WORK & LOCATIONS. REMOVE ABANDONED RACEWAY & BRANCH CIRCUIT CONDUCTORS. REPLACE ANY BROKEN LAMPS IN LIGHT FIXTURE.

ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT

TAG #	DESCRIPTION	H.P.	MCA	MOCP	VOLTAGE	PHASE	NEMA STARTER SIZE	DISCONNECT NEMA 3R	RECOMMENDED FUSE SIZE	REMARKS	PANEL/CIRCUIT NO.	FEEDER
AC 1	ROOFTOP HVAC UNIT		19.4	30	208	1		30A 2P 240V	LPN-RK-30SP		H-23,25	3/4" C. 2#8 & 1#8 GND
AC 2	ROOFTOP HVAC UNIT		26.3	40	208	3		60A 3P 240V	LPN-RK-40SP		SEE PLANS	1" C. 3#6 & 1#8 GND
AC 3	ROOFTOP HVAC UNIT		13	15	480	3		30A 3P 600V	LPN-RK-15SP		SEE PLANS	3/4" C. 3#10 & 1#10 GND
AC 4	ROOFTOP HVAC UNIT		25	30	480	3		30A 3P 600V	LPN-RK-30SP		DBH	REFER TO SINGLE LINE DIAGRAM
AC 5	ROOFTOP HVAC UNIT		33.9	45	480	3		60A 3P 600V	LPN-RK-45SP		DBH	REFER TO SINGLE LINE DIAGRAM
HP 1	HEAT PUMP		30	45	208	1		60A 2P 240V	LPN-RK-45SP			
FC 1	FAN COIL		0.2	15	208	1				UNIT POWERED BY HP-1		
FC 2	FAN COIL		0.2	15	208	1				UNIT POWERED BY HP-1		
FC 3	FAN COIL		0.2	15	208	1				UNIT POWERED BY HP-1		
EF 1	EXHAUST FAN (ROOF)				120	1			MOTOR RATED SWITCH			
EF 2	EXHAUST FAN (ROOF)				120	1			MOTOR RATED SWITCH			

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

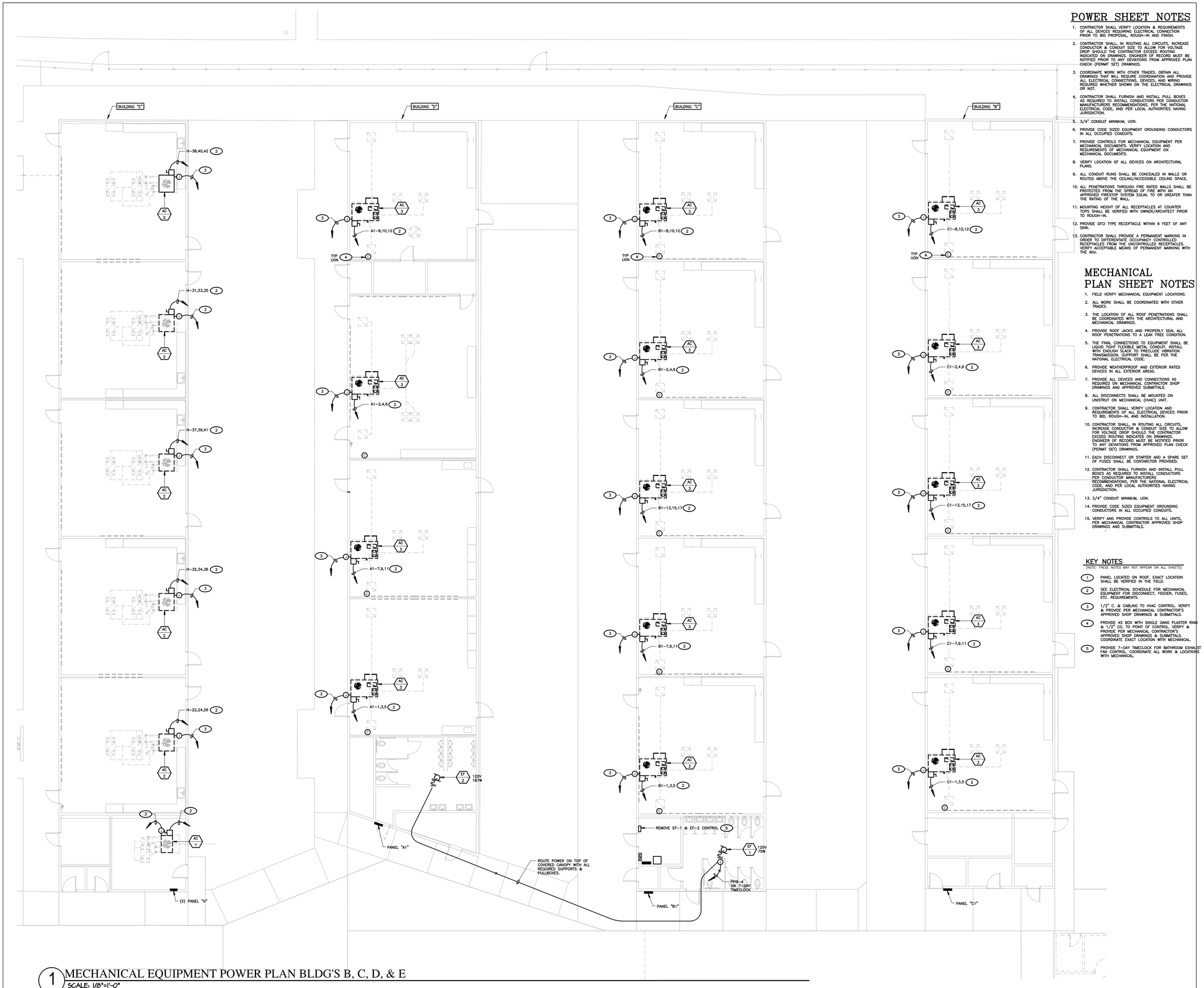
BLDG. H MECHANICAL EQUIPMENT ELECTRICAL DEMOLITION & POWER PLAN

SHEET NUMBER

PHASE III

E801

DSA SUBMITTAL SET



POWER SHEET NOTES

1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON THE ELECTRICAL DRAWINGS OR NOT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
5. 3/4" CONDUIT MINIMUM, UON.
6. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
8. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
9. ALL CONDUIT RUNS SHALL BE CONCEALED IN WALLS OR ROUTED ABOVE THE CEILING/ACCESSIBLE CEILING SPACE.
10. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE WALL.
11. MOUNTING HEIGHT OF ALL RECEPTACLES AT COUNTER TOPS SHALL BE VERIFIED WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
12. PROVIDE GFCI TYPE RECEPTACLE WITHIN 6 FEET OF ANY SINK.
13. CONTRACTOR SHALL PROVIDE A PERMANENT MARKING IN ORDER TO DIFFERENTIATE OCCUPANCY CONTROLLED RECEPTACLES FROM THE UNCONTROLLED RECEPTACLES. VERIFY ACCEPTABLE MEANS OF PERMANENT MARKING WITH THE AHJ.

MECHANICAL PLAN SHEET NOTES

1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
2. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
3. THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.
5. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER THE NATIONAL ELECTRICAL CODE.
6. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
7. PROVIDE ALL DEVICES AND CONNECTIONS AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
8. ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON MECHANICAL (HVAC) UNIT.
9. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN, AND INSTALLATION.
10. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWINGS. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
11. EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTARCTOR PROVIDED.
12. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
13. 3/4" CONDUIT MINIMUM, UON.
14. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
15. VERIFY AND PROVIDE CONTROLS TO ALL UNITS, PER MECHANICAL CONTRACTOR APPROVED SHOP DRAWINGS AND SUBMITTALS.

KEY NOTES

(NOTE: THESE NOTES MAY NOT APPEAR ON ALL SHEETS)

1. PANEL LOCATED ON ROOF. EXACT LOCATION SHALL BE VERIFIED IN THE FIELD.
2. SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR DISCONNECT, FEEDER, FUSES, ETC. REQUIREMENTS.
3. 1/2" C. & CABLING TO HVAC CONTROL. VERIFY & PROVIDE PER MECHANICAL CONTRACTOR'S APPROVED SHOP DRAWINGS & SUBMITTALS.
4. PROVIDE 4S BOX WITH SINGLE GANG PLASTER RING & 1/2" CO. TO POINT OF CONTROL. VERIFY & PROVIDE PER MECHANICAL CONTRACTOR'S APPROVED SHOP DRAWINGS & SUBMITTALS. COORDINATE EXACT LOCATION WITH MECHANICAL.
5. PROVIDE 7-DAY TIMECLOCK FOR BATHROOM EXHAUST FAN CONTROL. COORDINATE ALL WORK & LOCATIONS WITH MECHANICAL.

1 MECHANICAL EQUIPMENT POWER PLAN BLDG'S B, C, D, & E
SCALE: 1/8"=1'-0"

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE
MECHANICAL EQUIPMENT POWER PLAN BLDG'S B, C, D, & E

SHEET NUMBER
PHASE III
E802

DSA SUBMITTAL SET

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
○	◉	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
○	◉	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	◉	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	◉	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
◉	○	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
◉	○	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
○	◉	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
◉	○	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
◉	○	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
◉	○	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
○	◉	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
◉	○	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 4 of 6)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

- This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.
- This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire W/ft²							Office Location	Field Inspector	
01	02	03	04	05	06	07	08	09	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Luminaires Number of	Installed portable luminaire watts in this office (G02 x G03)	Square feet of this office	Watts per square foot (G04 / G05)	If G06 ≤ 0.3, enter zero; If G06 > 0.3, (G06-0.3)	(G05 x G07)	Identify Office area in which these portable luminaires are installed	Pass	Fail
			0				0		○	○
			0				0		○	○
			0				0		○	○
			0				0		○	○
			0				0		○	○
Total installed portable luminaire watts that are greater than 0.3 W/ft² per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A. General Information

Climate Zone: 6	Conditioned Floor Area: 2977 sq. ft.						
	Unconditioned Floor Area:						
Building Type:	☑	Nonresidential	☐	High-Rise Residential	☐	Hotel/Motel	
☑ Schools	☐	Relocatable Public Schools	☑	Conditioned Spaces	☐	Unconditioned Spaces	
Phase of Construction:	☐	New Construction	☐	Addition	☑	Alteration	
Method of Compliance:	☐	Complete Building	☑	Area Category	☐	Tailored	
Project Address: 815 Potomac Ave. Bakersfield, CA 93307							

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
◉	○	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
◉	○	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
◉	○	NRCC-LTI-03-E	Indoor Lighting Power Allowance
○	◉	NRCC-LTI-04-E	Tailored Method Worksheets
○	◉	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
○	○	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or leave empty if Exempted)							PAF Credit Calculation [2]			✓ if Acceptance Test Required	Field Inspector	
										Watts of Controlled Lighting	PAF	Control Credit (11 x 12)			
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc…)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)					Pass	Fail
Classrooms	Dimmer	7	•	•								0	☐	○	○
Classrooms	Switch/scene control	2	•									0	☐	○	○
Classrooms	Corner mount Occupancy Sensor	6				•						0	☐	○	○
												0	☐	○	○
												0	☐	○	○
												0	☐	○	○
												0	☐	○	○
Control Credit PAGE TOTAL (Sum of Column 13):												0			
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):															
													Enter Control Credit total into NRCC-LTI-01-E; Page 1.		

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule			Installed Watts				Location	Field Inspector [1]	
01	02	03	04	05	06		07	08	
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default Lumin Allow	How wattage was determined: According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (HERS #05)	Primary Function area in which these luminaires are installed	Pass	Fail
P	PENDANT LED, ONE DRIVER	107	☐	☑	24	2568	muti-purpose 803, 804	○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
INSTALLED WATTS PAGE TOTAL:						2568	Enter sum total of all pages into NRCC-LTI-01-E; Page 2	2568	

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Watts		Indoor Lighting Power for Unconditioned Spaces		Watts
01	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	2568		**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+	0				
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0		Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	
04	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	2568		Adjusted **Installed** Lighting Power (row 1 minus row 3)	=	0
	Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)				Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)		
05	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35%lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		2977		**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		

D. Declaration of Required Certificates of Installation

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
◉	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
○	◉	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
○	◉	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
○	◉	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
○	◉	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
○	◉	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Dale Ferranti	Documentation Author Signature: Dale Ferranti
Company: Ferranti Engineering	Signature Date: 10-17-2019
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Dale Ferranti	Responsible Designer Signature: Dale Ferranti
Company: Ferranti Engineering	Date Signed: 10-17-2019
Address: 1211 Maricopa Hwy #250	License: E17524
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Dale Ferranti	Documentation Author Signature: Dale Ferranti
Company: Ferranti Engineering	Signature Date: 10-17-2019
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
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Responsible Designer Name: Dale Ferranti	Responsible Designer Signature: Dale Ferranti
Company: Ferranti Engineering	Date Signed: 10-17-2019
Address: 1211 Maricopa Hwy #250	License: E17524
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

E. Declaration of Required Certificates of Acceptance

Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	FORM/TITLE	
◉	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
◉	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
○	◉	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector
○	◉	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for: ☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

- ☐ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

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DATE: 03/27/2020

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020
SHEET TITLE	

INDOOR TITLE 24 DOCUMENTS BLDG H

SHEET NUMBER
PHASE III
E900

DSA SUBMITTAL SET

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 3 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

01	02	03 [2]	04	05	06	07
Primary Function	Sq Ft or Linear ft [1]	Additional Watts Allowed	Wattage Allowance (02 x 03)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts [3]	ALLOWED WATTS Smaller of 04 or 06
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
TOTALS – Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES – Section C-1						

1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.
2. Additional watts are available only when allowed according to the footnotes on bottom of Table 140.6-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing studio lighting..
3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)		(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)	0		
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)			2977
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E			
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1	0		2977

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02		03		04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft²	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
					0
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					0

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES	**Watts**
Total from section C-2.	2977
Total from section C-3.	
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	2977
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.	

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Dale Ferranti	Documentation Author Signature: Dale Ferrant
Company: Ferranti Engineering	Signature Date: 10-17-2019
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Dale Ferranti	Responsible Designer Signature: Dale Ferrant
Company: Ferranti Engineering	Date Signed: 10-17-2019
Address: 1211 Maricopa Hwy #250	License: E17524
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

- Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
- Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS				ALLOWED
Location in Building	Primary Function Area per Table 140.6-C	PER ft²	X	AREA (ft²)	=	WATTS
MULTI-PURPOSE 803 (BLDG H)	MULTI-PURPOSE AREA	1.2		1109		1330.8
MULTI-PURPOSE 804 (BLDG H)	MULTI-PURPOSE AREA	1.2		1868		2241.6
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
		TOTALS		2977		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						2977
						WATTS

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DATE: 03/27/2020

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

INDOOR TITLE 24 DOCUMENTS BLDG H

SHEET NUMBER

PHASE III

E901

DSA SUBMITTAL SET

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Cutoff	Field Inspector	
01	02	03	04		05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default from §guide	How wattage was determined: According to §130.2(c)	Number of Luminaires	Total Installed Watts for this area (03 x 05)	Primary Function area in which these luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
P2	Parking lot pole light	160	☐	☑	2	320		UH: UL: FVH: BVH: FH: BH:	○	○
			☐	☐		0		UH: UL: FVH: BVH: FH: BH:	○	○
			☐	☐		0		UH: UL: FVH: BVH: FH: BH:	○	○
						320	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E; Page 1			
						INSTALLED WATTS PAGE TOTAL:			320	

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Dale Ferranti	Documentation Author Signature: Dale Ferranti
Company: Ferranti Engineering	Signature Date: 10-17-2019
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
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Responsible Designer Name: Dale Ferranti	Responsible Designer Signature: Dale Ferranti
Company: Ferranti Engineering	Date Signed: 10-17-2019
Address: 1211 Maricopa Hwy #250	License: E17524
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 1 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A. General Information

Project Address: 815 Eureka St. Bakersfield, CA 93305	Total Illuminated Hardscape Area: 16,572 SQ. FT.

Phase of Construction: ☑ New Construction ☐ Addition ☐ Alteration

Outdoor Lighting Zone (LZ) ☐ LZ-1 ☐ LZ-2 ☑ LZ-3 ☐ LZ-4

I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

B. Lighting Compliance Documents (check box for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

☑	NRCC-LTO-01-E	Certificate of Compliance
☑	NRCC-LTO-02-E	Outdoor Lighting Controls Certificate of Compliance
☑	NRCC-LTO-03-E	Outdoor Lighting Power Allowance Certificate of Compliance
☐	NRCC-LTO-04-E	Outdoor Lighting Existing Conditions Certificate of Compliance

C. Summary of Allowed Outdoor Lighting Power		Watts
01	**Sum Total ALLOWED** Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2.	852
	Complies ONLY if **Installed** (Box 02) ≤ **Allowed** (Box 01)	
02	**Sum Total INSTALLED** Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3.	320

D. Declaration of Required Installation Certificates

Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☑ NRCI-LTO-01-E - Must be submitted for all buildings	☐ Field Inspector
☑ NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector

E. Declaration of Required Certificates of Acceptance

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☑ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.	☐ Field Inspector

F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 2 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

OUTDOOR TITLE 24 DOCUMENTS NEW PARKING

SHEET NUMBER

PHASE III

E902

DSA SUBMITTAL SET

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts				Location	Cutoff	Field Inspector	
01	02	03	04		05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default from NA8	How wattage was determined: According to §130(c)	Number of Luminaires	Total Installed Watts in this area (03 x 05)	Primary Function area in which these luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
P1	Parking lot pole light	270	☐	☑	1	270		UH: UL: FVH: BVH: FH: BH:	○	○
			☐	☐		0		UH: UL: FVH: BVH: FH: BH:	○	○
			☐	☐		0		UH: UL: FVH: BVH: FH: BH:	○	○
					INSTALLED WATTS PAGE TOTAL:	270	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E; Page 1		270	

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 1 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A. General Information

Project Address: 815 Eureka St. Bakersfield, CA 93305		Total Illuminated Hardscape Area: 13,355 SQ. FT.	
Phase of Construction:	☐ New Construction	☐ Addition	☑ Alteration
Outdoor Lighting Zone (LZ)	☐ LZ-1	☐ LZ-2	☑ LZ-3 ☐ LZ-4

I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

B. Lighting Compliance Documents (check box for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

☑	NRCC-LTO-01-E	Certificate of Compliance
☑	NRCC-LTO-02-E	Outdoor Lighting Controls Certificate of Compliance
☑	NRCC-LTO-03-E	Outdoor Lighting Power Allowance Certificate of Compliance
☐	NRCC-LTO-04-E	Outdoor Lighting Existing Conditions Certificate of Compliance

C. Summary of Allowed Outdoor Lighting Power		Watts
01	**Sum Total ALLOWED** Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2.	702
	Complies ONLY if **Installed** (Box 02) ≤ **Allowed** (Box 01)	
02	**Sum Total INSTALLED** Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3.	270

D. Declaration of Required Installation Certificates
Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☑ NRCI-LTO-01-E - Must be submitted for all buildings	☐ Field Inspector
☑ NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector

E. Declaration of Required Certificates of Acceptance
Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☑ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.	☐ Field Inspector

F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Dale Ferranti	Documentation Author Signature: Dale Ferranti
Company: Ferranti Engineering	Signature Date: 10-17-2019
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Dale Ferranti	Responsible Designer Signature: Dale Ferranti
Company: Ferranti Engineering	Date Signed: 10-17-2019
Address: 1211 Maricopa Hwy #250	License: E17524
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 2 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

AGENCY INFORMATION:

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DATE: 03/27/2020

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

OUTDOOR TITLE 24 DOCUMENTS EXISTING PARKING

SHEET NUMBER

PHASE III

E903

DSA SUBMITTAL SET

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 4 of 4)
Project Name: Bessie Owens E.S. Modernization	Date Prepared: 10-17-2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Dale Ferranti	Documentation Author Signature: Dale Ferranti
Company: Ferranti Engineering	Signature Date: 10-17-2019
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
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Responsible Designer Name: Dale Ferranti	Responsible Designer Signature: Dale Ferranti
Company: Ferranti Engineering	Date Signed: 10-17-2019
Address: 1211 Maricopa Hwy #250	License: E17524
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 1 of 4)
Project Name: Bessie Owens E.S. Modernization	Date Prepared: 10-17-2019

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY

1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E)	1.	1556.53
2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E.		
3. **Sum Total ALLOWED** Outdoor Lighting Wattage (add rows 1 and 2)	3.	1556.53

PER APPLICATION from Section C-1		PER UNIT LENGTH (SALES FRONTAGE) from Section C-2		PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3		PER SPECIFIC AREA from Section C-4.			
0	+	0	+	0	+	0	=	2.	0

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area Wattage Allowance (AWA)				Linear Wattage Allowance (LWA)			Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
01	02	03	04	05	06	07	08	09
Name of Area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (B02 x B03)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (B05 x B06)	IWA (Watts)	B04 + B07 + B08
New parking lot	16572	0.04	662.88	545	0.35	190.75		853.63
Existing Parking Lot	13355	0.04	534.2	482	0.35	168.7		702.9
			0			0		0
			0			0		0
			0			0		0

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 4 of 6)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

- This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.
- This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule			Office Installed Portable Luminaire W/ft²					Office Location	Field Inspector	
01	02	03	04	05	06	07	08	09	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	or this office Square Feet	Watts per square foot (G04 / G05)	If G06 ≤ 0.3, enter zero; If G06 > 0.3, (G06-0.3)	(G05 x G07)	Identify Office area in which these portable luminaires are installed	Pass	Fail
			0				0		○	○
			0				0		○	○
			0				0		○	○
			0				0		○	○
			0				0		○	○
Total installed portable luminaire watts that are greater than 0.3 W/ft² per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A. General Information

Climate Zone:	6	Conditioned Floor Area: 17380 sq. ft.					
		Unconditioned Floor Area:					
Building Type:		☑	Nonresidential	☐	High-Rise Residential	☐	Hotel/Motel
☑ Schools		☐	Relocatable Public Schools	☑	Conditioned Spaces	☐	Unconditioned Spaces
Phase of Construction:		☐	New Construction	☐	Addition	☑	Alteration
Method of Compliance:		☐	Complete Building	☑	Area Category	☐	Tailored
Project Address: 815 Potomac Ave. Bakersfield, CA 93307							

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
⦿	○	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
⦿	○	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
⦿	○	NRCC-LTI-03-E	Indoor Lighting Power Allowance
○	⦿	NRCC-LTI-04-E	Tailored Method Worksheets
○	⦿	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
○	○	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Field Inspector [1]	
01	02	03	04		05	06	07	08	
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default from NA8	How wattage was determined: According to §130.0(c)	Number Luminaires	Total Installed Watts (col 03 x col 05) (W03 x W05)	Primary Function area in which these luminaires are installed	Pass	Fail
L1	2X4 LED, ONE DRIVER	53	☐	☑	228	12084	Classrooms	○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
INSTALLED WATTS PAGE TOTAL:						12084	Enter sum total of all pages into NRCC-LTI-01-E; Page 2	12084	

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
01	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	12084	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+	0			
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	
04	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	12084	Adjusted **Installed** Lighting Power (row 1 minus row 3)	=	0
	Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)			Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)		
05	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35%lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		20856	**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		

D. Declaration of Required Certificates of Installation

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
⦿	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
○	⦿	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
○	⦿	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
○	⦿	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
○	⦿	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
○	⦿	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Dale Ferranti	Documentation Author Signature: Dale Ferranti
Company: Ferranti Engineering	Signature Date: 10-17-2019
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Dale Ferranti	Responsible Designer Signature: Dale Ferranti
Company: Ferranti Engineering	Date Signed: 10-17-2019
Address: 1211 Maricopa Hwy #250	License: E17524
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

E. Declaration of Required Certificates of Acceptance

Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	FORM/TITLE	
⦿	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
⦿	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
○	⦿	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector
○	⦿	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for: ☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

- ☐ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

AGENCY INFORMATION:

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DATE: 03/27/2020

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
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ISSUE DATE:	3/3/2020

SHEET TITLE

INDOOR TITLE 24 DOCUMENTS CLASSROOMS

SHEET NUMBER

PHASE III

E905

DSA SUBMITTAL SET

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Dale Ferranti	Documentation Author Signature: Dale Ferrant
Company: Ferranti Engineering	Signature Date: 10-17-2019
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
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Responsible Designer Name: Dale Ferranti	Responsible Designer Signature: Dale Ferrant
Company: Ferranti Engineering	Date Signed: 10-17-2019
Address: 1211 Maricopa Hwy #250	License: E17524
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)		(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)	0		
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)			20856
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E			
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1	0		20856

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02		03		04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft²	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
					0
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					0

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES	**Watts**
Total from section C-2.	20856
Total from section C-3.	
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	20856
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.	

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
○	◉	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
○	◉	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	◉	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	◉	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
◉	○	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
◉	○	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
○	◉	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
◉	○	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
◉	○	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
◉	○	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
○	◉	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
◉	○	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

- Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
- Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS			=	ALLOWED
Location in Building	Primary Function Area per Table 140.6-C	PER ft²	X	AREA (ft²)		WATTS
Classrooms	Classroom, Lecture, Training	1.2		17380		20856
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
		TOTALS		17380		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						20856
						WATTS

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or leave empty if Exempted)							PAF Credit Calculation [2]			✓ If Acceptance Test Required	Field Inspector	
										Wattage of Controlled Lighting	PAF	Control Credit (11 x 12)			
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc…)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§130.0(c)2	§140.6(d)					Pass	Fail
Classrooms	Dimmer	38	✦	✦								0	☐	○	○
Classrooms	Switch/scene control	19	✦									0	☐	○	○
Classrooms	Ceiling Occupancy Sensor	19			✦							0	☐	○	○
Classrooms	Ceiling Occupancy Sensor/daylight ctl	19			✦	✦						0	☐	○	○
												0	☐	○	○
												0	☐	○	○
												0	☐	○	○
Control Credit PAGE TOTAL (Sum of Column 13):												0			
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):															
												Enter Control Credit total into NRCC-LTI-01-E; Page 1.			

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 3 of 4)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

01	02	03 [2]	04	05	06	07
Primary Function	Sq Ft or Linear ft [1]	Additional Watts Allowed	Wattage Allowance (02 x 03)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts [3]	ALLOWED WATTS Smaller of 04 or 06
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
TOTALS – Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES – Section C-1						

1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.
2 . Additional watts are available only when allowed according to the footnotes on bottom of Table 140.6-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing studio lighting..
3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: Bessie Owens Junior High Modernization	Date Prepared: 11-18-2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Dale Ferranti	Documentation Author Signature: Dale Ferranti
Company: Ferranti Engineering	Signature Date: 10-17-2019
Address: 1211 Maricopa Hwy #250	CEA Certification Identification (if applicable):
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.	
Responsible Designer Name: Dale Ferranti	Responsible Designer Signature: Dale Ferranti
Company: Ferranti Engineering	Date Signed: 10-17-2019
Address: 1211 Maricopa Hwy #250	License: E17524
City/State/Zip: Ojai/CA/93023	Phone: (805) 705-4772

AGENCY INFORMATION:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SEAL

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REVISIONS

NO.	DATE SUBMITTED	DATE APPROVED	DESCRIPTION

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT — Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	VPZ
CHK'D BY:	DF
ISSUE DATE:	3/3/2020

SHEET TITLE

OUTDOOR TITLE 24 DOCUMENTS CLASSROOMS

SHEET NUMBER

PHASE III

E906

DSA SUBMITTAL SET

CABLE SCHEDULE

DATA CABLE	-	4 PAIR TWISTED CABLE. SEE SPECIFICATIONS FOR PRODUCT DATA.
MMF OSP	-	50 MICRON MULTIMODE FIBER OPTIC CABLE, OUTSIDE PLANT RATED. SEE CABLE SCHEDULE FOR STRAND COUNT. SEE SPECIFICATIONS FOR PRODUCT DATA.
MMF I/O	-	50 MICRON MULTIMODE FIBER OPTIC CABLE, INDOOR / OUTDOOR RATED. SEE CABLE SCHEDULE FOR STRAND COUNT. SEE SPECIFICATIONS FOR PRODUCT DATA.
MMF RISER	-	50 MICRON MULTI-MODE FIBER OPTIC CABLE, RISER RATED. SEE CABLE SCHEDULE FOR STRAND COUNT. SEE SPECIFICATIONS FOR PRODUCT DATA.
XX PR CU. OSP	-	25 PAIR CAT3 TWISTED PAIR. SEE SPECIFICATIONS FOR PRODUCT DATA.
INTERCOM	-	UNSHIELDED/SHIELDED TWISTED PAIR. SEE SPECIFICATIONS FOR PRODUCT DATA.
SER	-	18/2 SHIELDED MICROPHONE CABLE
SER	-	12/2 SHIELDED SPEAKER CABLE

ACRONYMS & DEFINITIONS

#	-	AFTER SYMBOL IS EQUAL TO NUMBER OF CABLES
#"	-	MOUNTING HEIGHT ABOVE FINISHED FLOOR
AFF	-	ABOVE FINISHED FLOOR
B	-	BLANK
B.O.B.	-	BOTTOM OF BOX
C	-	CONDUIT
CAT#	-	DENOTES CATEGORY CABLE
D	-	DEMOLISH
E	-	EXISTING (LIGHT SYMBOLS)
EF	-	ENTRANCE FACILITY (AKA MPOE)
F	-	FUTURE, PROVIDE BLANK FACEPLATE FOR ALL FUTURE OUTLETS
FB#	-	FLOOR BOX NUMBER
HC	-	HORIZONTAL CROSS CONNECT (PREVIOUSLY KNOWN AS IDF)
IC	-	INTERMEDIATE CROSS CONNECT
MC	-	MAIN CROSS CONNECT (PREVIOUSLY KNOWN AS MDF)
MMF	-	MULITI-MODE FIBER OPTIC CABLE
MPOE	-	MAIN POINT OF ENTRY
N	-	NEW (DARK SYMBOLS)
PB	-	PULL BOX
PC	-	PULL CAN
R	-	REMOVE
RMU	-	RACK MOUNT UNITS
SER	-	SOUND EQUIPMENT RACK
SMF	-	SINGLE MODE FIBER OPTIC CABLE
SMR	-	SURFACE MOUNT RACEWAY
TC	-	TERMINAL CABINET
TE	-	TELECOMMUNICATIONS ENCLOSURE
TMGM	-	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
T.O.B.	-	TOP OF BOX
TR	-	TELECOMMUNICATIONS ROOM
UON	-	UNLESS OTHERWISE NOTED
UPS	-	UNINTERRUPTED POWER SUPPLY
W	-	WALL OUTLET MOUNTED @+48" AFF
WAP	-	WIRELESS ACCESS POINT @+96" AFF UON.
WG	-	WIRE GUARD
WP	-	WEATHER PROOF

SEISMIC ANCHORAGE REQUIREMENTS

MECHANICAL, ELECTRICAL AND PLUMBING ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 16, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVEABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVEABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED TO BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND THE 2013 CBC SECTION 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPOR THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD) PLUMBING PIPING (PP) ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD☐PP☐E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP ☐ MD☐PP☐E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # _____

MP ☐ MD☐PP☐ OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION 2009, INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RETRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL_____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

DATA SYMBOL LIST

(#) ▽	DATA OUTLET - @+18" A.F.F. UON. PROVIDE ONE(1)4S BACK BOX, ONE (1)1G RING, ONE(1)3/4"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE. QUANTITY PER PLAN. DATA CABLES/JACKS AND FACE PLATE PER SPECS.
(#) ▽42"	DATA OUTLET - @+42" A.F.F. UON. PROVIDE ONE(1)4S BACK BOX, ONE (1)1G RING, ONE(1)3/4"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE. QUANTITY PER PLAN. DATA CABLES/JACKS AND FACE PLATE PER SPECS.
(#) ▽54"	DATA OUTLET - @+54" A.F.F. UON. PROVIDE ONE(1)5S BACK BOX, ONE (1)1G RING, ONE(1)2"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE. QUANTITY PER PLAN. DATA CABLES/JACKS AND FACE PLATE PER SPECS.
(#) ▽B	DATA COIL - PROVIDE ONE(1) 4S BACK BOX, ONE(1)1G RING, PROVIDE 30' CABLE LOOP ABOVE CEILING TILE IN CENTER OF ROOM. QUANTITY PER PLAN. DATA CABLES/JACKS AND FACE PLATE PER SPECS. REFER TO DETAIL 9/T4.1 FOR MORE INFORMATION.
	DATA OUTLET FOR SUSPENDED CEILING WIRELESS ACCESS POINT - PROVIDE ONE (1)4S BACK BOX ABOVE CEILING TILE, TWO (2)DATA CABLES/JACKS. CABLES AND JACKS PER SPECIFICATIONS. INSTALL PER DTL 8/T4.1.
A J	EMPTY JUNCTION BOX FOR FUTURE - PROVIDE ONE (1)4S BACK BOX, ONE (1)1G RING, ONE (1)3/4"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE AND BLANK FACEPLATE. MOUNTED AT 18" A.F.F.
B J	EMPTY JUNCTION BOX FOR FUTURE - PROVIDE ONE (1)5S BACK BOX, ONE (1)1G RING, ONE (1)2"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE AND BLANK FACEPLATE. MOUNTED AT 54" A.F.F.
(#)	DATA OUTLET IN FLOOR BOX - PROVIDE DATA CABLES/JACKS PER PLAN. CABLES/JACKS AND FACE PLATE PER SPECIFICATIONS.

CABINET/RACK SYMBOL LIST

IDF	RE4X IDF LOCATION - PER SPECIFICATIONS. PROVIDE RACKS/CABINET PER PLANS. INSTALL PER DETAIL 5,6/T4.1, 1/T4.2.
MDF	MDF LOCATION - (N) FLOOR MOUNTED 2 POST RACK PER SPECIFICATIONS. INSTALL PER DETAIL 4/T4.3.

INTERCOM SYMBOL LIST

S	CEILING MOUNTED INTERCOM SPEAKER - PROVIDE ONE (1) CEILING BOX PART # V-9915M-5 IN NEAREST ATTIC SPACE PER SPECIFICATIONS. PROVIDE (1) CAT 6 YELLOW CABLE TO BE TERMINATED TO 66 BLOCK IN IDF. @+96" T.O.B. UON. INSTALL PER DETAIL 2/T4.2.
H	INTERCOM HORN MOUNTED TO WALL OR UNDER BREEZEWAY - PROVIDE ONE (1) RECESSED BACK BOX PART # V-9805, ONE (1)3/4"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE AND GRILLE. PROVIDE (1) CAT 6 YELLOW CABLE TO BE TERMINATED TO 66 BLOCK IN IDF, PER SPECIFICATIONS. +96" T.O.B. UON. INSTALL PER DETAIL 7/T4.1.
	WIRELESS CLOCK LOCATION - PROVIDE ONE(1) WIRELESS CLOCK PER SPECIFICATIONS.

SECURITY SYMBOL LIST

C	FUTURE/NEW WALL MOUNTED CAMERA - PROVIDE ONE (2)DATA CABLE/JACK , PROVIDE 15' CABLE LOOP ABOVE CEILING TILE IN NEAREST ATTIC SPACE PER SPECIFICATIONS.

PATHWAY SYMBOL LIST

[----]	CONDUIT SLEEVE - TYPICALLY 2" CONDUIT SLEEVE UNLESS OTHERWISE NOTED. ALWAYS EXTEND SLEEVES PAST SOFFITS AND HARD LID CEILINGS.

SCOPE OF WORK

A. DATA
- A.A. PROVIDE NEW DATA CABLING & TERMINATION EQUIPMENT AS SPECIFIED & AS SHOWN ON DRAWINGS.
- A.B. USE ALL EXISTING SITE PATHWAYS, EXCEPT WHERE SHOWN AS NEW.
- A.C. FOR NEW OUTLET LOCATIONS, CONTRACTOR SHALL PROVIDE:
  - A.C.A.A. BACK BOX, CONDUIT IN WALL, MOUNTING RING AND FACEPLATE, PER SPECIFICATIONS.

B. INTERCOM
- B.A. RELOCATE EXISTING INTERCOM SYSTEM TO NEW MDF LOCATION..
- B.B. CONTRACTOR TO PROVIDE NEW INTERCOM CROSS CONNECT FIELD PER PLANS.
- B.C. PROVIDE NEW INTERCOM CABLING:
  - B.C.A. PROVIDE SITE INTERCOM CABLING FROM EXISTING INTERCOM MASTER TO NEW CROSS CONNECT FIELD.
  - B.C.B. PROVIDE INTRA-BUILDING CABLING FROM CROSS CONNECT FIELD TO BUILDING DEVICES.
- B.D. REPAIR ANY DAMAGED OR BROKEN CABLES CAUSED BY CONSTRUCTION.

C. CLOCKS
- C.A. NEW CLOCK MASTER TO PER SPECIFICATIONS.
  - C.A.A. PROVIDE NEW WIRELESS CLOCKS AS SHOWN ON PLANS.
- C.B. REPAIR ANY DAMAGED OR BROKEN CABLES CAUSED BY CONSTRUCTION.

D. CLASSROOM AUDIO/VISUAL SYSTEM
- D.A. OWNER PROVIDED OWNER INSTALLED. CONDUIT INFRASTRUCTURE AS SPECIFIED AND SHOWN ON DRAWINGS.

E. TELEPHONE
- E.A. EXISTING TELEPHONE SYSTEM TO REMAIN. RELOCATE EXISTING INTERCOM SYSTEM TO NEW MDF LOCATION.
- E.B. PROVIDE NEW CROSS CONNECT FIELD FOR TELEPHONE SYSTEM.
- E.C. RECONNECT ALL LOST PHONE CONNECTIONS TO SYSTEM CAUSED BY CONSTRUCTION.
- E.D. REPAIR ANY DAMAGED OR BROKEN CABLES CAUSED BY CONSTRUCTION.

F. FIRE ALARM
- F.A. COORDINATE WITH ELECTRICAL PLANS, GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION. LOCATION AND CONNECTION TYPE MAY VARY.
- F.B. PROVIDE ONE DATA CABLE IN EACH BUILDING TO FIRE ALARM CONTROL PANEL. BIDDER SHALL INCLUDE 300FT MINIMUM OF CABLE AND ALL TERMINATION HARDWARE.
- F.C. PROVIDE ONE SM6 FROM MC TO MASTER FIRE ALARM CONTROLS. BIDDER SHALL INCLUDE 300FT MINIMUM OF CABLE AND INNERDUCT, TERMINATION HARDWARE AND FIBER-LIU.

G. EMS/HVAC
- G.A. COORDINATE WITH MECHANICAL PLANS, GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION. LOCATION AND CONNECTION TYPE MAY VARY.
- G.B. PROVIDE ONE DATA CABLE IN EACH BUILDING TO EMS/HVAC CONTROL PANEL. BIDDER SHALL INCLUDE 300FT MINIMUM OF CABLE AND ALL TERMINATION HARDWARE.
- G.C. PROVIDE ONE SM6 FROM MC TO MASTER EMS/HVAC CONTROLS. BIDDER SHALL INCLUDE 300FT MINIMUM OF CABLE AND INNERDUCT, TERMINATION HARDWARE AND FIBER-LIU.

SHEET INDEX

T0.0	TITLE SHEET (THIS PAGE)	T4.2	INSTALLATION DETAILS
T0.1	SITE PLAN	T4.3	INSTALLATION DETAILS
T0.2	BUILDING J & MODULAR BUILDING FLOOR PLAN		
T0.3	ADMIN BUILDING K FLOOR PLAN		
T0.4	BUILDING H & I FLOOR PLAN		
T0.5	BUILDING J & MODULAR BUILDING CEILING PLAN		
T0.6	ADMIN BUILDING K CEILING PLAN		
T0.7	SINGLE LINES		
T0.8	BACKBONE CABLING		
T3.0	BUILDING K ENLARGED ROOM ELEVATIONS		
T4.1	INSTALLATION DETAILS		

GENERAL NOTES

A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY LOW VOLTAGE AND TELECOM EQUIPMENT NECESSARY TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR INSTALLATION OF LOW VOLTAGE AND TELECOM WORK.

B. ALL LOW VOLTAGE AND TELECOM WORK, MATERIALS AND EQUIPMENT SHALL CONFORM WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE, UNDERWRITERS LABORATORIES, BOARD OF UNDERWRITERS, OSHA, NEMA, NFPA AND ALL AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL PAY FOR AND OBTAIN ALL REQUIRED PERMITS AND CERTIFICATES OF REQUIRED ORDINANCES, AND DELIVER THEM TO THE OWNER'S REPRESENTATIVE.

C. UPON REVIEW OF THE DRAWINGS PRIOR TO SUBMITTING HIS PROPOSAL, THE LOW VOLTAGE AND TELECOM CONTRACTOR SHALL INFORM THE ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES WITHIN THE DRAWINGS AND REQUEST CLARIFICATION CONCERNING THE DISCREPANCIES. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS SHOULD SUCH PROCEDURE NOT BE FOLLOWED.

D. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION. THE CONTRACTOR SHALL ARRANGE ALL PARTS OF THIS WORK AND EQUIPMENT IN PROPER RELATION TO THE WORK AND EQUIPMENT OF OTHERS.

AGENCY INFORMATION:

IDENTIFICATION STAMP
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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	08/27/2019

SHEET TITLE

TITLE SHEET

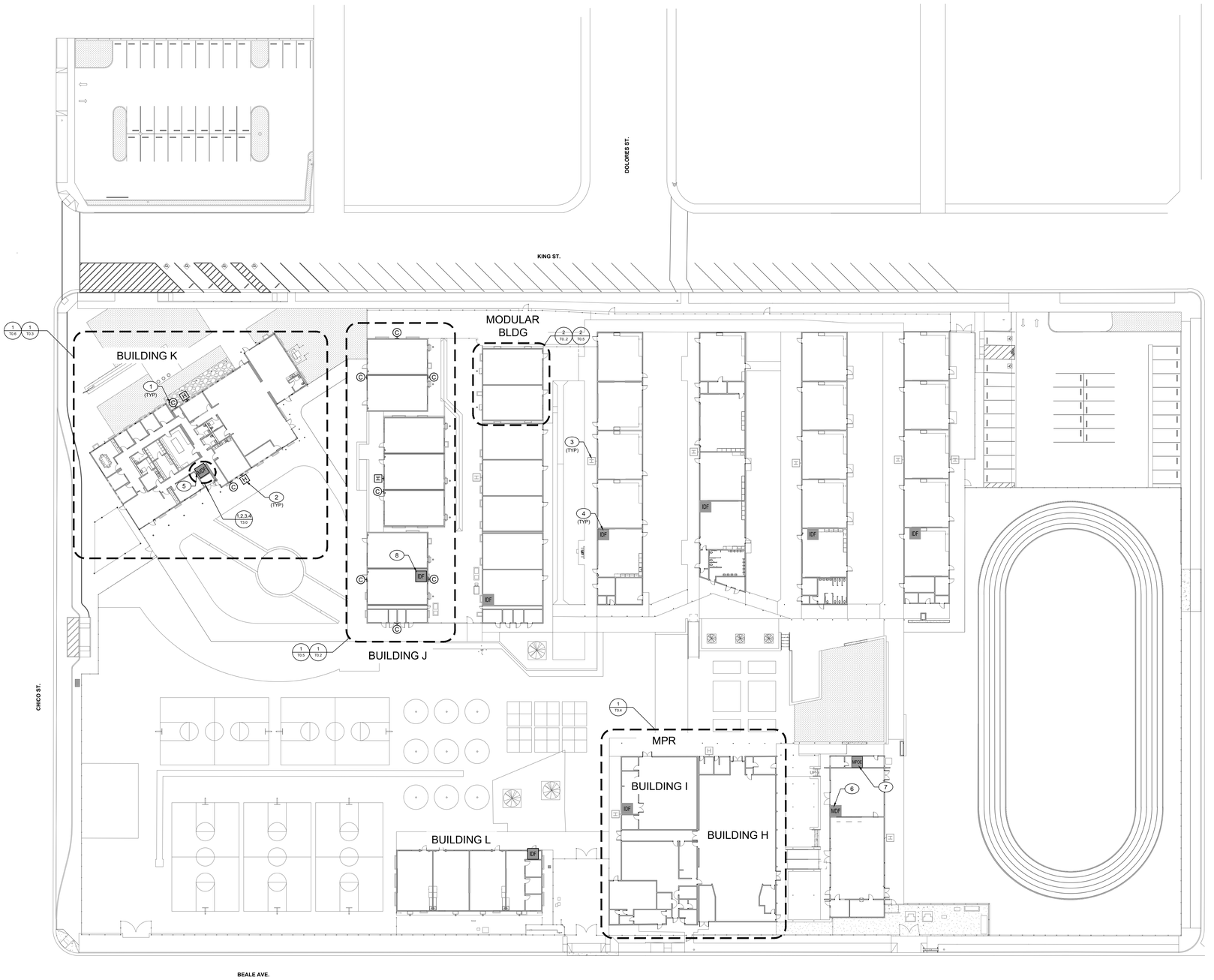
SHEET NUMBER

PHASE III

T0.0

PLOT DATE:

(X) IN REAR BY LOCATION. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.



SHEET NOTES

NOTES ON THIS SHEET ARE TO BE USED ON THIS SHEET ONLY.

1. WALL MOUNTED CAMERA. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
2. INTERCOM HORN. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
3. (E) INTERCOM HORN LOCATION TO REMAIN.
4. (E) IDF LOCATION TO REMAIN.
5. (N) MDF LOCATION. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
6. (E) MDF LOCATION TO REMAIN AND WILL CHANGE TO IDF BUILDING G IDF. (E) MDF TO BE RELOCATED TO (N) MDF.
7. (E) MAIN POINT OF ENTRY.
8. (N) RE4X IDF LOCATION . SEE TITLE SHEET FOR ADDITIONAL INFORMATION.

1 BESSIE OWENS M.S. - SITE PLAN
1"=30'-0"

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ISSUE DATE:	08/27/2019

SHEET TITLE

SITE PLAN

SHEET NUMBER

PHASE III

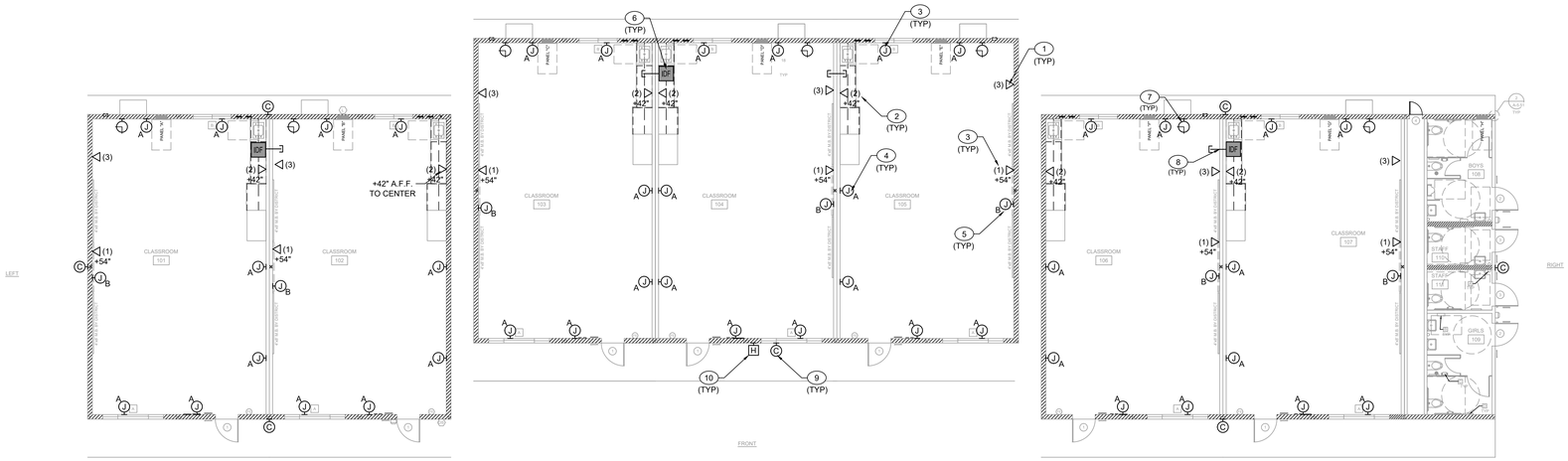
T0.1

PLOT DATE:

SHEET NOTES

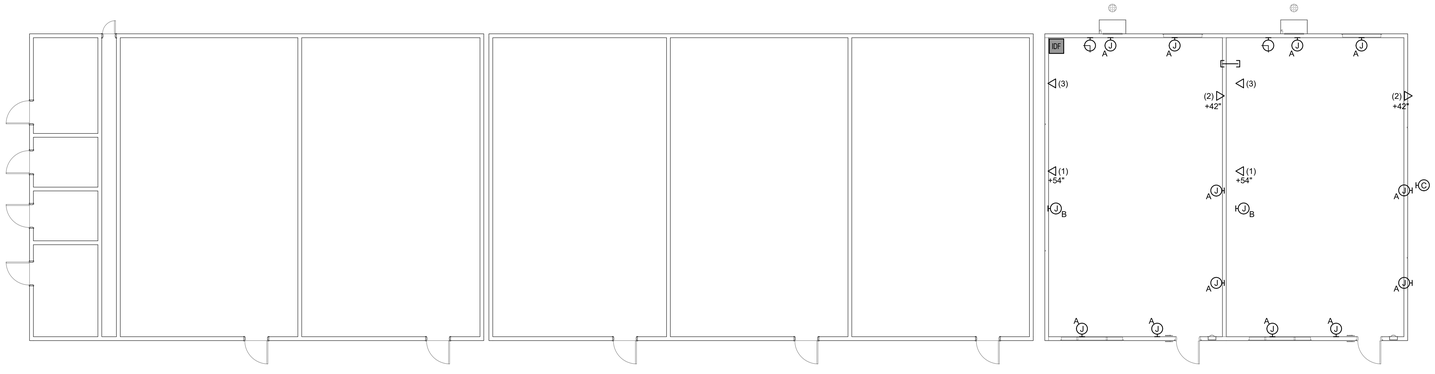
NOTES ON THIS SHEET ARE TO BE USED ON THIS SHEET ONLY.

1. DATA OUTLET. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
2. DATA OUTLET @42". SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
3. DATA OUTLET @54". SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
4. EMPTY JUNCTION BOX A. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
5. EMPTY JUNCTION BOX B. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
6. (N) RE4X IDF CABINET. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
7. WIRELESS WALL CLOCK. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
8. (N) 2" CONDUIT STUB. SEE TITLE SHEET FOR ADDITIONAL INFORMATION .
9. WALL MOUNTED CAMERA. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
10. INTERCOM HORN. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.



1 BUILDING J - FLOOR PLAN

1/8"=1'-0"



1 (E) MODULAR CLASSROOMS - FLOOR PLAN

1/8"=1'-0"

AGENCY INFORMATION:

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DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	08/27/2019

SHEET TITLE

BUILDING J & MODULAR BUILDING FLOOR PLAN

SHEET NUMBER

PHASE III

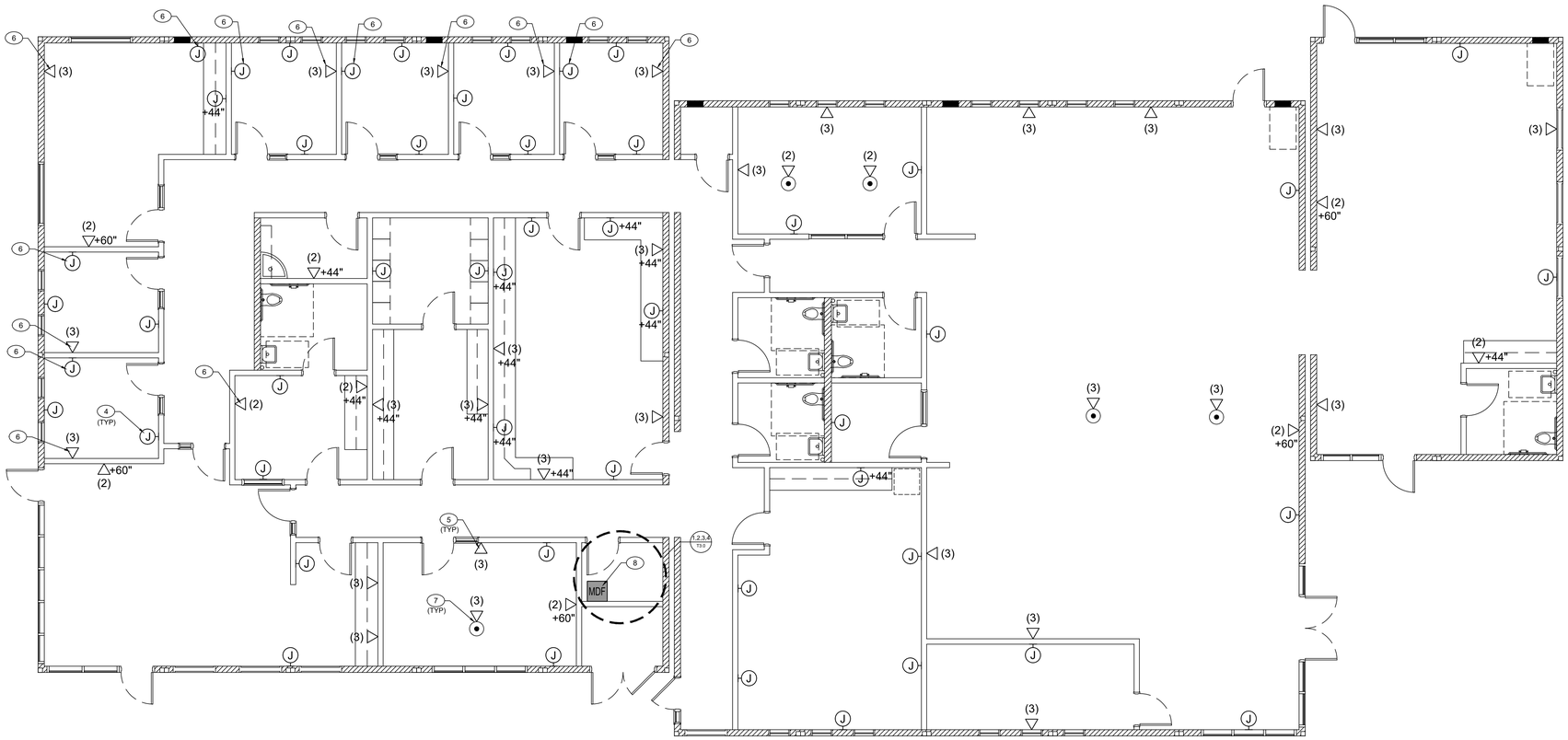
T0.2

PLOT DATE:

SHEET NOTES

NOTES ON THIS SHEET ARE TO BE USED ON THIS SHEET ONLY.

1. NOT USED.
2. NOT USED.
3. NOT USED.
4. EMPTY JUNCTION BOX A. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
5. DATA OUTLET. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
6. DATA OUTLET OR JUNCTION BOX 32" AWAY FROM WALL.
7. DATA OUTLET IN FLOOR BOX. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
8. (N) MDF LOCATION. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.



2 (N) ADMIN BUILDING K - FLOOR PLAN

3/16"=1'-0"

AGENCY INFORMATION:

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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
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ISSUE DATE:	08/27/2019

SHEET TITLE

ADMIN BUILDING K FLOOR PLAN

SHEET NUMBER

PHASE III

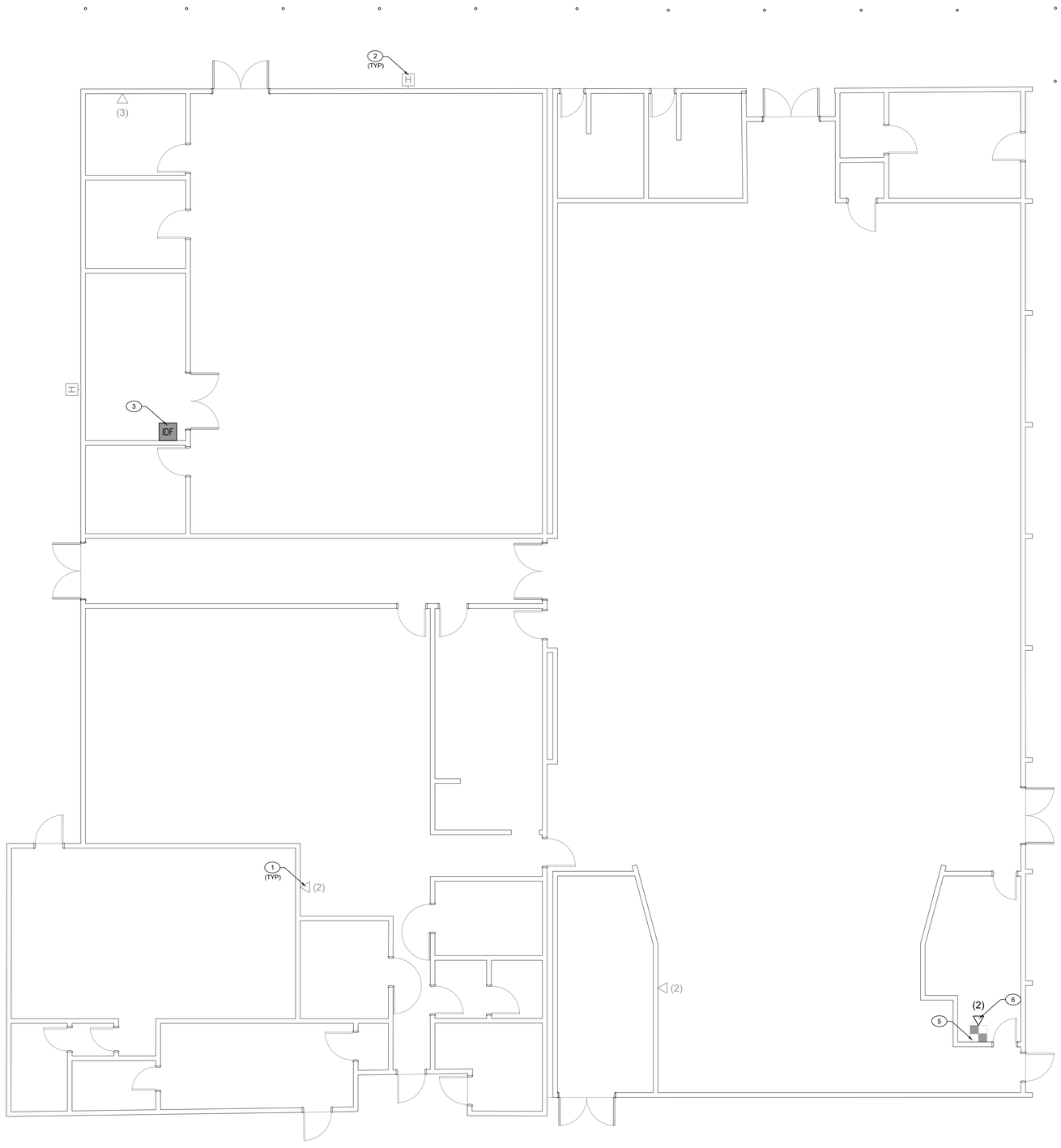
T0.3

PLOT DATE:

SHEET NOTES

NOTES ON THIS SHEET ARE TO BE USED ON THIS SHEET ONLY.

1. (E) DATA OUTLET TO REMAIN.
2. (E) INTERCOM HORN TO REMAIN. RELOCATE CROSS CONNECT CABLE TO IDF AND TERMINATE TO 66-BLOCK.
3. (E) IDF LOCATION TO REMAIN.
4. NOT USED.
5. (E) SOUND EQUIPMENT RACK.
6. DATA OUTLET. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
7. (E) MDF LOCATION TO CONVERTED TO (N) IDF. MDF TO BE RELOCATED TO (N) LOCATION.



1 BUILDING H & I - FLOOR PLAN
3/16"=1'-0"

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PROJECT NO:	118934
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CHK'D BY:	Checker
ISSUE DATE:	08/27/2019

SHEET TITLE

BUILDING H & I FLOOR PLAN

SHEET NUMBER

PHASE III

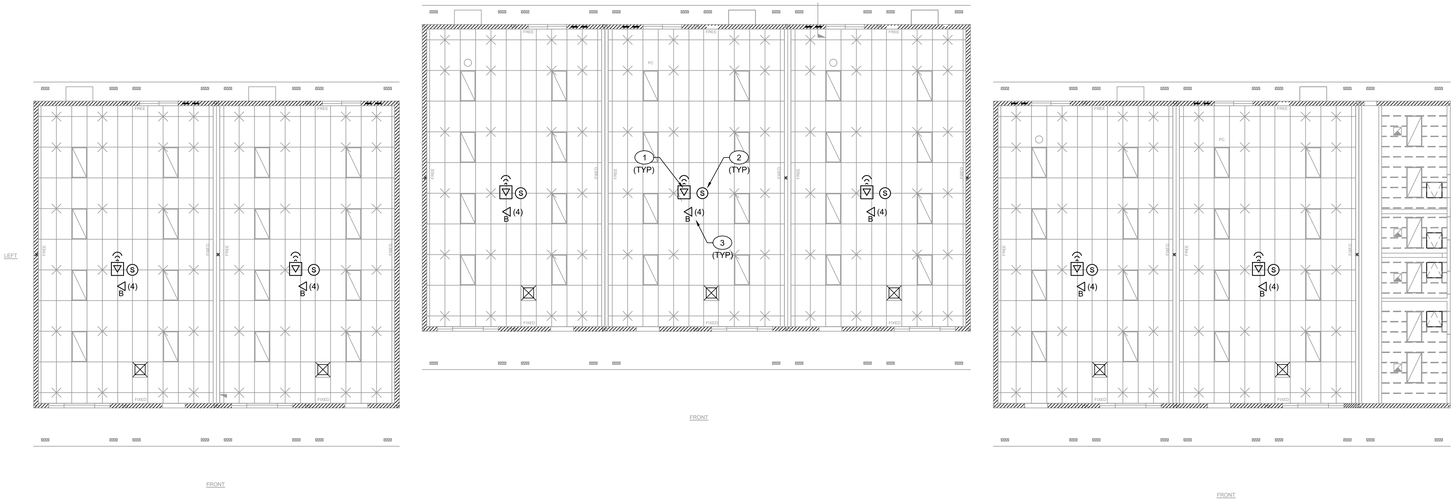
T0.4

PLOT DATE:

SHEET NOTES

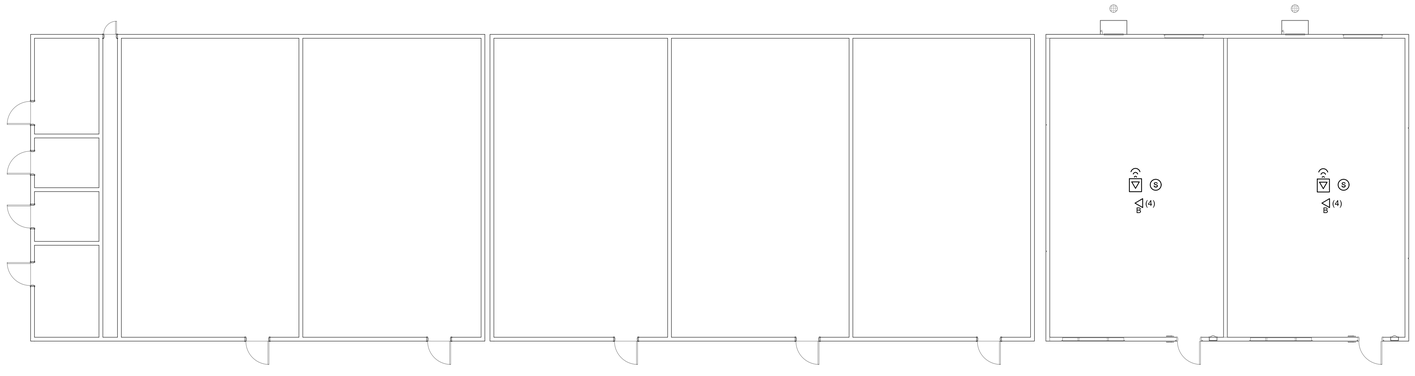
NOTES ON THIS SHEET ARE TO BE USED ON THIS SHEET ONLY.

1. CEILING DATA. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
2. CEILING MOUNTED SPEAKER. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
3. DATA COIL . SEE TITLE SHEET FOR ADDITIONAL INFORMATION.



1 BUILDING J - CEILING PLAN

1/8"=1'-0"



2 (E) MODULAR CLASSROOMS - CEILING PLAN

1/8"=1'-0"

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PROJECT NO:	118934
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CHK'D BY:	Checker
ISSUE DATE:	08/27/2019

SHEET TITLE

BUILDING J & MODULAR BUILDING CEILING PLAN

SHEET NUMBER

PHASE III

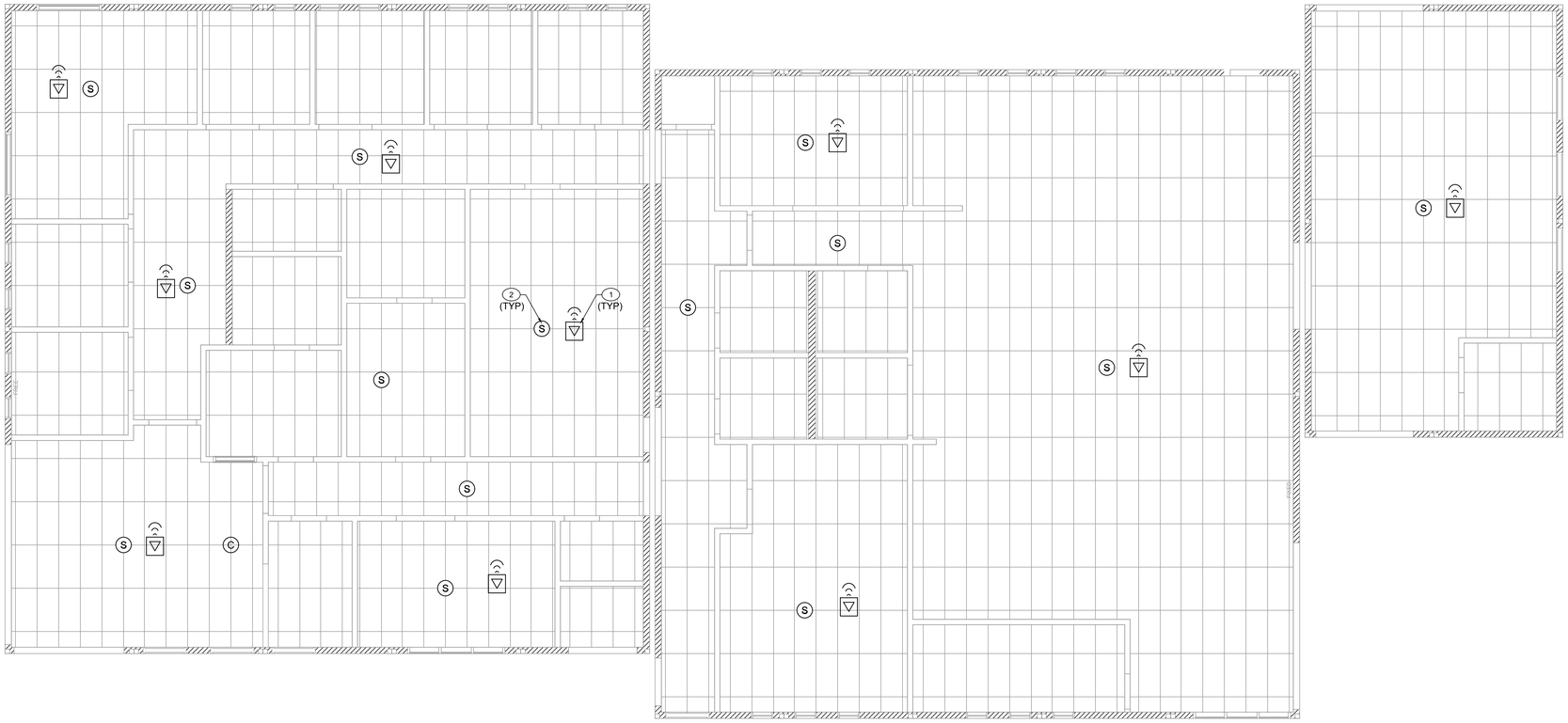
T0.5

PLOT DATE:

SHEET NOTES

NOTES ON THIS SHEET ARE TO BE USED ON THIS SHEET ONLY.

1. CEILING DATA. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.
2. CEILING MOUNTED SPEAKER. SEE TITLE SHEET FOR ADDITIONAL INFORMATION.



1 (N) ADMIN BUILDING K - CEILING PLAN
3/16"=1'-0"

AGENCY INFORMATION:

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BAKERSFIELD CITY SCHOOL DISTRICT — Where The Child Comes First

BESSIE OWENS JUNIOR HIGH MODERNIZATION

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OPSC or OSHPD PROJ. NO:	
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ISSUE DATE:	08/27/2019

SHEET TITLE

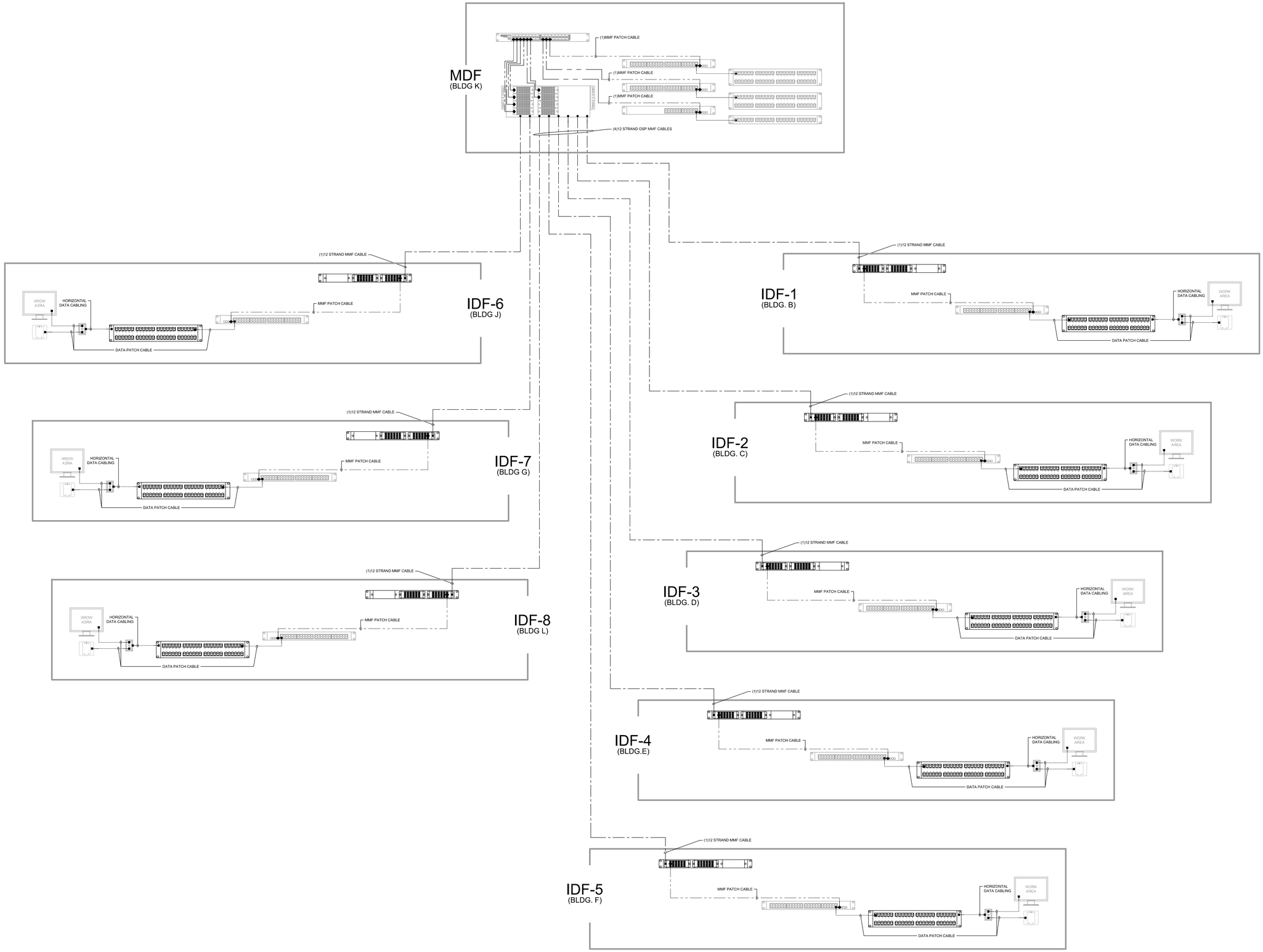
ADMIN BUILDING CEILING PLAN

SHEET NUMBER

PHASE III

T0.6

PLOT DATE:



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ISSUE DATE:	08/27/2019

SHEET TITLE

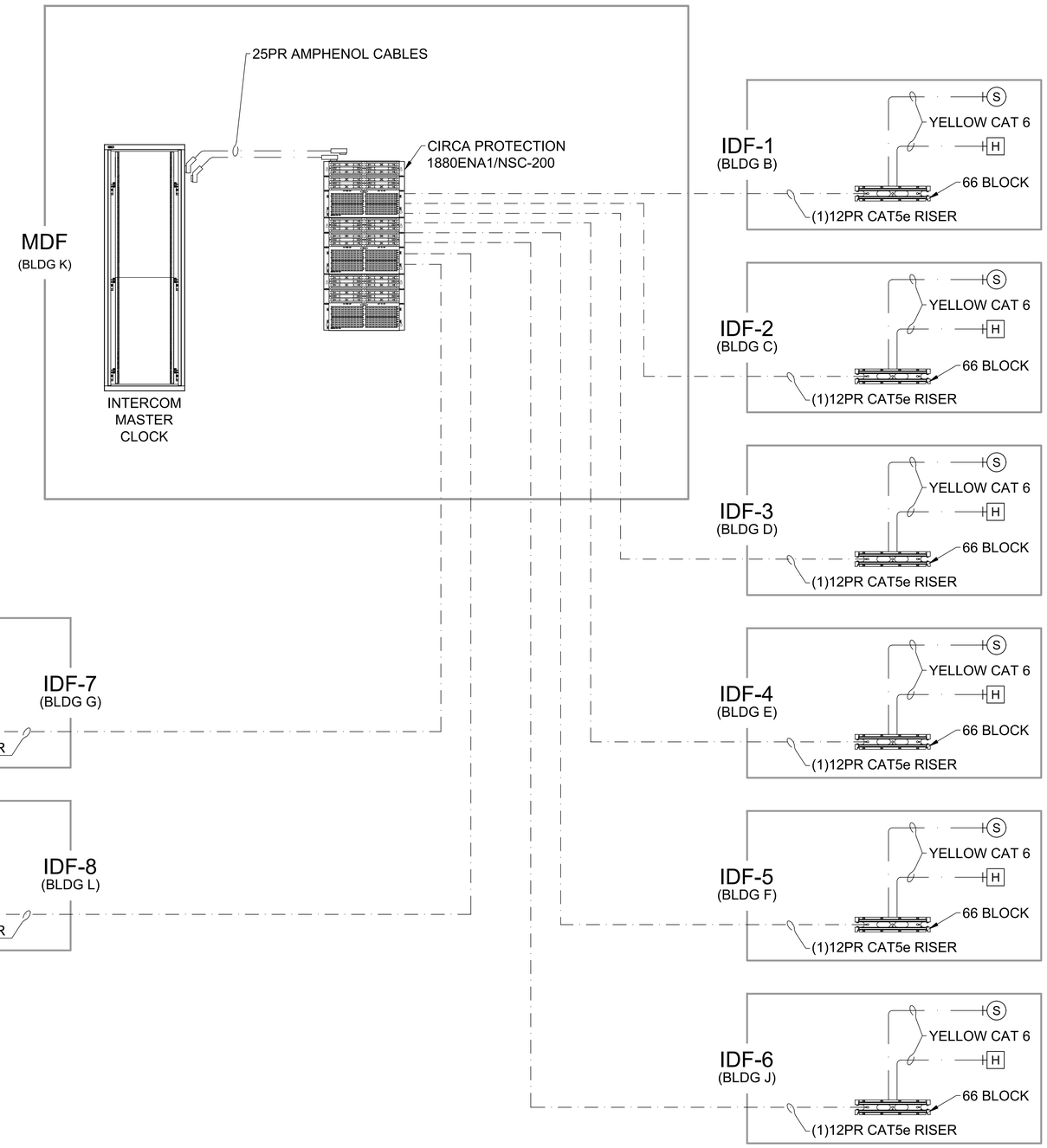
SINGLE LINES

SHEET NUMBER

PHASE III

T0.7

PLOT DATE:



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BICSI ID # 144262
Expires 12-31-20

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BESSIE OWENS JUNIOR HIGH MODERNIZATION
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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
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ISSUE DATE:	08/27/2019

SHEET TITLE

BACKBONE CABLING

SHEET NUMBER

PHASE III

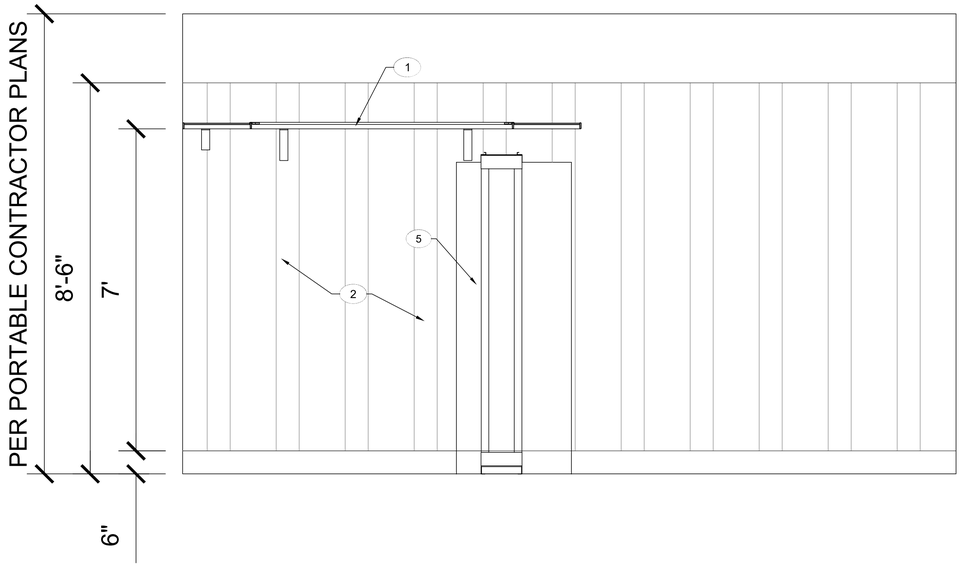
T0.8

PLOT DATE:

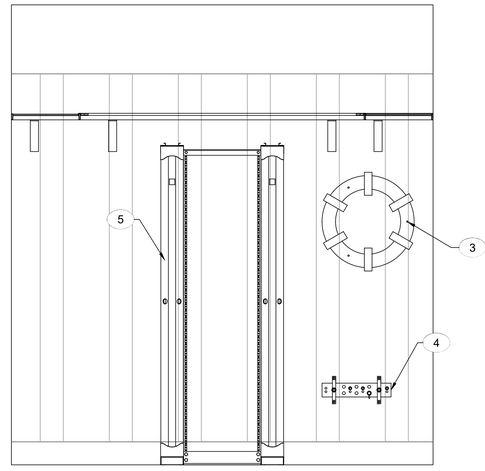
SHEET NOTES

NOTES ON THIS SHEET ARE TO BE USED ON THIS SHEET ONLY.

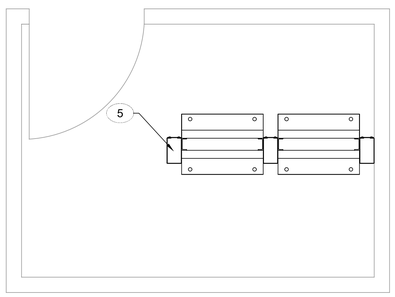
1. 12" LADDER RACK. INSTALL PER DTL. 4,5,6,7,8/3T4.2. 3/3T4.3.
2. PROVIDE 4'x8'x3/4" PLYWOOD BACK BOARD AROUND PERIMETER OF ROOM TO +8'-6".
3. FIBER RING PER DTL. 2/3T4.3
4. TELECOMMUNICATIONS GROUNDING BUS BAR. INSTALL PER DTLS 3/3T4.3.
5. 2-POST RACK. INSTALL PER DTL 4/2T4.3.



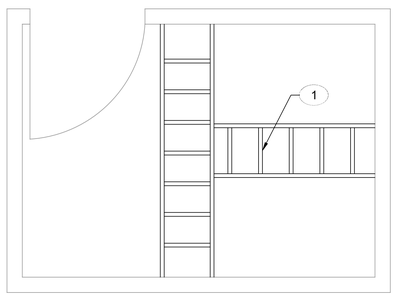
3 BUILDING K ELEVATION A - MDF ROOM
3/4"=1'-0"



4 BUILDING K ELEVATION B - MDF ROOM
3/4"=1'-0"



1 BUILDING K ENLARGED FLOOR PLAN - MDF ROOM
3/4"=1'-0"



2 BUILDING K ENLARGED CEILING PLAN - MDF ROOM
3/4"=1'-0"

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BICSI Fred Brakeman RCDD 1144282 Expires 12-31-20

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BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD CITY SCHOOL DISTRICT "Where The Child Comes First"

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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	08/27/2019

SHEET TITLE

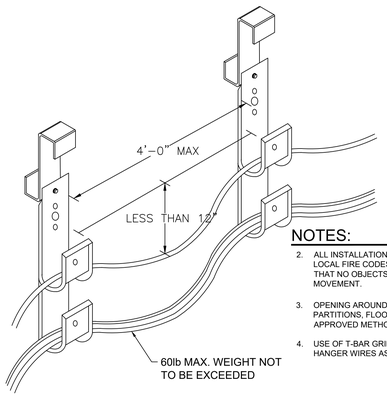
BUILDING K - ENLARGED ROOM & ELEVATIONS

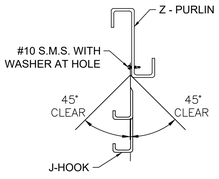
SHEET NUMBER

PHASE III

T3.0

PLOT DATE:

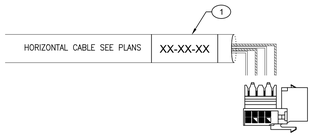




NOTES:

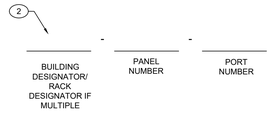
2. ALL INSTALLATIONS SHALL MEET STATE OF CALIFORNIA, NATIONAL, AND LOCAL FIRE CODES. J-HOOK PATH SHELL BE INSTALLED IN SUCH A MANOR THAT NO OBJECTS WITHIN A 45DEG SWING ANGLE ARE IMPACTED BY MOVEMENT.
3. OPENING AROUND PENETRATIONS THROUGH FIRE- RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE FIRE-STOPPED USING APPROVED METHODS.
4. USE OF T-BAR GRID WIRES IS STRICTLY PROHIBITED. PROVIDE NEW HANGER WIRES AS REQUIRED TO SUPPORT J-HOOK PATHWAY.

1 J-HOOK PATHWAY DETAIL
NOT TO SCALE

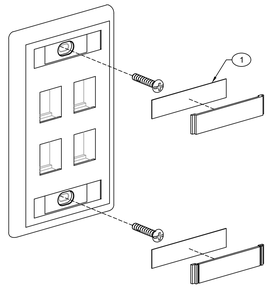


NOTES:

1. LABELED TAG WILL BE WRAPPED AROUND CABLE.
2. LABEL TAG PER LABEL STANDARD ISSUED.

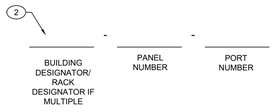


2 CABLE LINK IDENTIFIER LABELING FORMAT
NOT TO SCALE

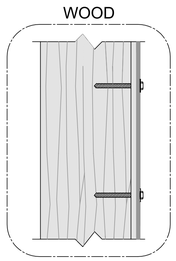


NOTES:

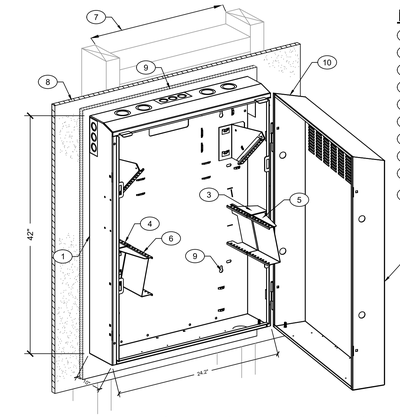
1. LABELED TAG WILL GO BEHIND WINDOW PROVIDED.
2. LABEL TAG PER LABEL STANDARD ISSUED.



3 HORIZONTAL LINK IDENTIFIER LABELING FORMAT
NOT TO SCALE

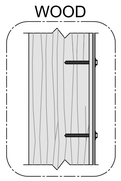


4 WALL FASTENER DETAIL
NOT TO SCALE

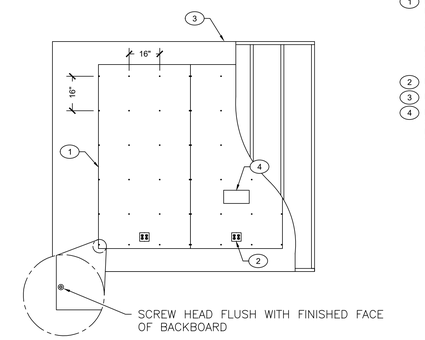


NOTES:

1. ENCLOSURE REAR
2. DOOR
3. 2U HUB BRACKET RIGHT
4. 2U HUB BRACKET LEFT
5. 4U HUB BRACKET RIGHT
6. 4U HUB BRACKET LEFT
7. FRAMED STUDS
8. DRYWALL
9. 3/4" PLYWOOD BACKBOARD 6" MINIMUM CLEARANCE AROUND CABINET ON ALL SIDES
10. CABINET OPERATING WEIGHT = 95 lbs



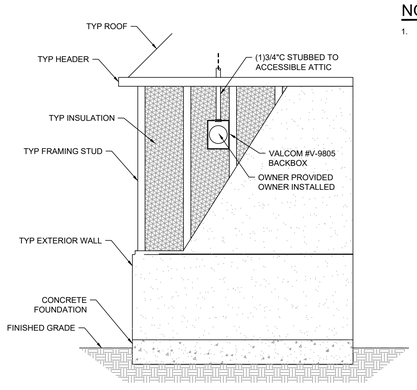
5 RE4X REMOTE EQUIPMENT BOX DETAIL
NOT TO SCALE



NOTES:

1. BACKBOARDS WILL BE 3/4" ACX PLYWOOD. BACKBOARDS WILL BE MOUNTED NO LESS THAN 12" ABOVE FINISHED FLOOR AND WILL BE SECURED TO THE WALL WITH APPROPRIATE ANCHORAGE BY DETAIL 4/T4.1. ALL BACKBOARD MOUNTING HARDWARE WILL BE FLUSH WITH SURFACE. BACKBOARDS WILL BE SECURED TO WALL VERTICALLY AT 16" OC, AND HORIZONTALLY AT 16" OC (UON).
2. PROVIDE ALL CUTOUTS FOR POWER OUTLETS.
3. DRYWALL
4. DRYWALL IS TO BE PAINTED TO MATCH ADJACENT SURFACE. FIRE RATING LABEL MUST NOT BE COVERED BY PAINT OR OTHER MATERIAL AND MUST REMAIN VISIBLE AT ALL TIMES.

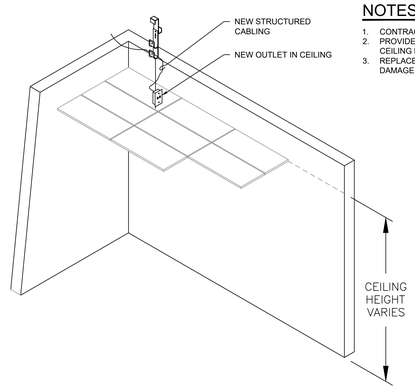
6 BACKBOARD DETAIL
NOT TO SCALE



NOTES:

1. SEE PORTABLE CONTRACTOR DRAWINGS FOR ALL FRAMING & WALL SURFACES.

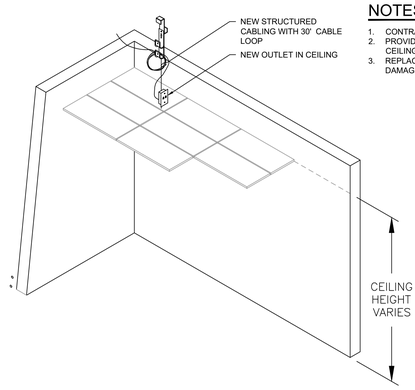
7 EXTERIOR WEATHER-PROOF HORN DETAIL
NOT TO SCALE



NOTES:

1. CONTRACTOR TO PROVIDE ALL T-BAR WIRES AND ATTACHMENTS.
2. PROVIDE STRUCTURED CABLING AS SPECIFIED, TERMINATE AT CEILING BOX AS SHOWN.
3. REPLACE ANY BROKEN TILES, ALERT OWNER TO AND PREVIOUS DAMAGE PRIOR TO INSTALLATION.

8 IN CEILING DATA OUTLET
NOT TO SCALE



NOTES:

1. CONTRACTOR TO PROVIDE ALL T-BAR WIRES AND ATTACHMENTS.
2. PROVIDE STRUCTURED CABLING AS SPECIFIED, TERMINATE AT CEILING BOX AS SHOWN.
3. REPLACE ANY BROKEN TILES, ALERT OWNER TO AND PREVIOUS DAMAGE PRIOR TO INSTALLATION.

9 IN CEILING COILED DATA OUTLET
NOT TO SCALE

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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION
815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	08/27/2019

SHEET TITLE

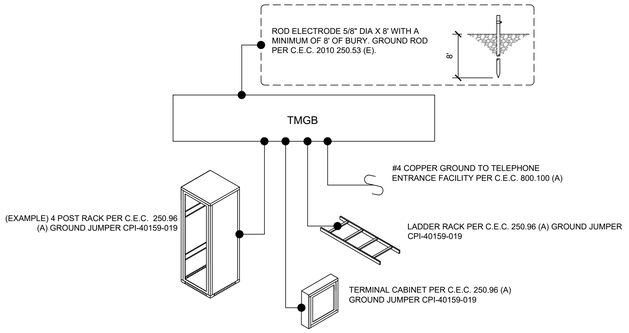
INSTALLATION SHEET

SHEET NUMBER

PHASE III

T4.1

PLOT DATE:

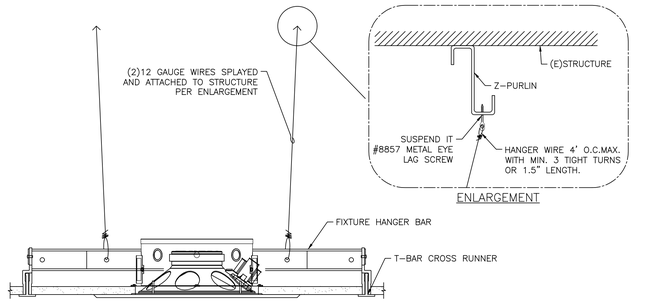


1 TELECOM. MAIN GROUNDING BUSBAR (TMGB) DETAIL

NOT TO SCALE

NOTES:

1. CONTRACTOR TO PROVIDE ALL SPEAKER SUPPORT SYSTEMS. T-BAR BRACE, TIE WIRES AND SAFETY CABLE.
2. TILES BROKEN BY CONTRACTOR ARE TO BE REPLACES WITH SAME STYLE AND MAKE AS ORIGINALLY SUPPLIED.
3. MAXIMUM SPEAKER WEIGHT 8LBS.

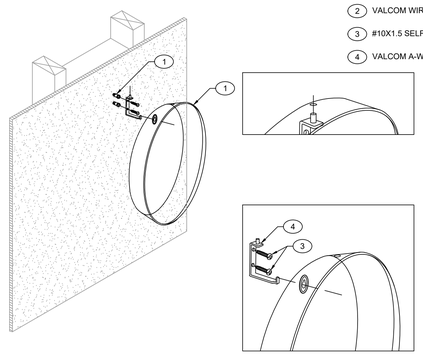


2 CEILING SPEAKER MOUNTING DETAIL

NOT TO SCALE

NOTES:

1. WALL ANCHOR
2. VALCOM WIRELESS ANALOG WALL MOUNTED CLOCK.
3. #10X1.5 SELF TAPPING SCREW.
4. VALCOM A-WK-12-1 MOUNTING BRACKET

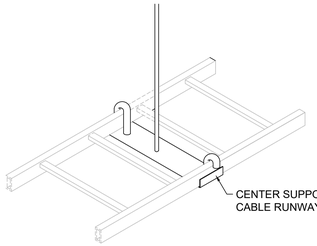


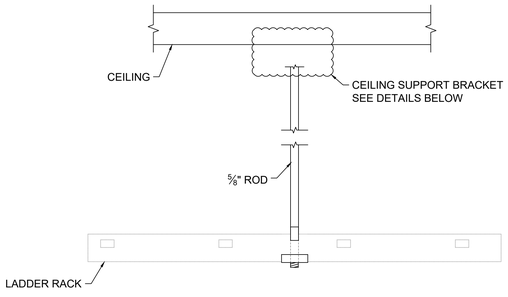
3 WALL MOUNTED WIRELESS CLOCK

NOT TO SCALE

NOTES:

1. PROVIDE CENTER HUNG SUPPORTS AS REQUIRED.
2. MAXIMUM SPAN OF 4' BETWEEN SUPPORTS
3. SECURE RUNWAY SUPPORT TO CEILING STRUCTURE



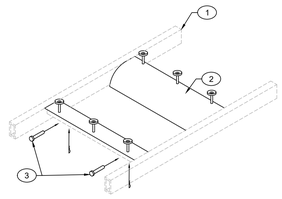


4 CABLE RUNWAY CENTER HUNG DETAIL

NOT TO SCALE

NOTES:

1. LADDER RACK, SEE SPECIFICATIONS FOR PART NUMBER AND SIZE.
2. CABLE RUNWAY RADIUM DROP, SEE SPECIFICATIONS FOR KIT NUMBER AND SIZES TO BE USED.
3. RETAINING CLIP AND PIN INCLUDED IN KIT.

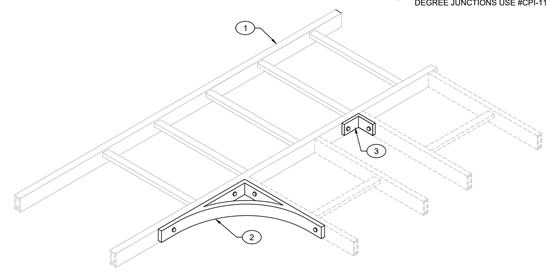


5 RUNWAY RADIUS DROP MOUNTING DETAIL

NOT TO SCALE

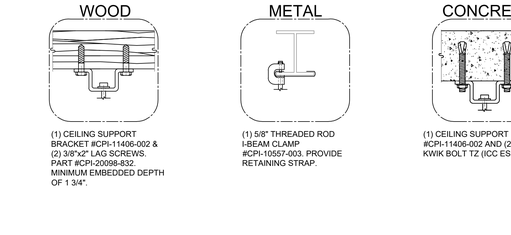
NOTES:

1. LADDER RACK
2. TO ATTACH TRAYS TOGETHER, ON EXTERNAL 90 DEGREE JUNCTIONS USE #CPI-11959-724 OR EQUAL.
3. TO ATTACH TRAYS TOGETHER, ON EXTERNAL 90 DEGREE JUNCTIONS USE #CPI-11298-701 OR EQUAL.



6 CABLE RUNWAY 90 DEGREE ASSEMBLY DETAIL

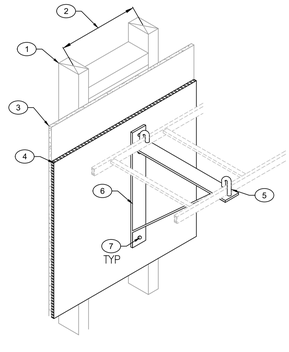
NOT TO SCALE



7 TRIANGULAR SUPPORT BRACKET MOUNTING DETAIL

NOTES:

1. FRAMED STUDS
2. EXISTING FRAME PER PLANS
3. DRYWALL
4. FIRE RATED BACKBOARD
5. (2) 5/16"-18 X 2-1/4" J-BOLTS
6. TRIANGULAR SUPPORT FOR BRACKET TO BE SPACED EVERY 48" MIN.
7. FOR APPROPRIATE ANCHORAGE SEE DETAIL 4/3T4.1.

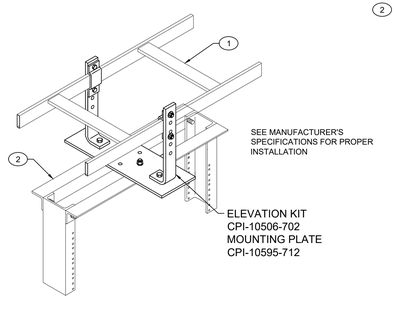


8 CABLE RUNWAY ELEVATION MOUNTING DETAIL

NOT TO SCALE

NOTES:

1. LADDER RACK
2. 2-POST RACK



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BAKERSFIELD CITY SCHOOL DISTRICT

BESSIE OWENS JUNIOR HIGH MODERNIZATION

815 EUREKA ST, BAKERSFIELD, CA 93305

OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	08/27/2019

SHEET TITLE

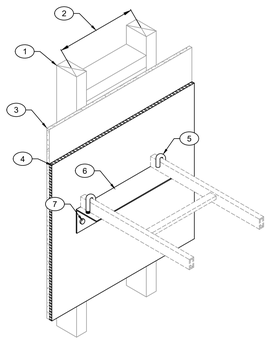
INSTALLATION SHEET

SHEET NUMBER

PHASE III

T4.2

PLOT DATE:

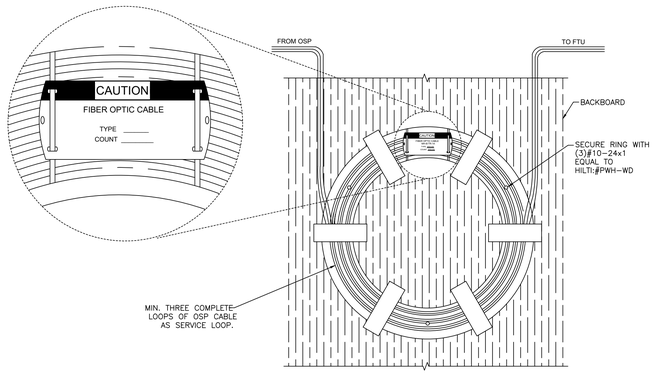


NOTES:

1. FRAMED STUDS
2. EXISTING FRAME PER PLANS
3. DRYWALL
4. FIRE RATED BACKBOARD
5. (2) 5/16"-18 X 2-1/4" J-BOLTS
6. WALL ANGLE SUPPORT FOR BRACKET TO BE PLACED AT THE END OF EACH LADDER RUN.
7. FOR APPROPRIATE ANCHORAGE SEE DETAIL 4/T4.1.

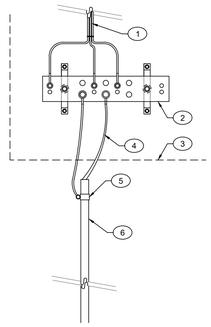
1 WALL ANGLE SUPPORT MOUNTING DETAIL

NOT TO SCALE



2 OPTICAL FIBER STORAGE RING

NOT TO SCALE

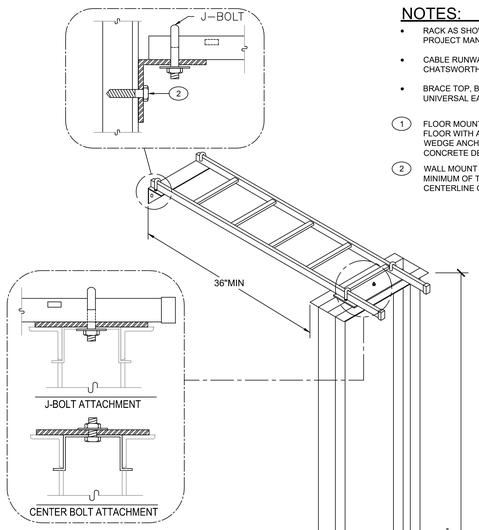


NOTES:

1. GROUNDING WIRE TO CONNECTED DEVICES, PER C.E.C. 250.52 (A).(5).
2. TMGB CPI PART NUMBER 13622-010 2"Wx 1/4"Hx 10"L.
3. DATA BACKBOARD.
4. #2 BARE BROUNDING WIRE.
5. GROUND CLAMP, #12CU TO BUSS.
6. 3/4" CONDUIT TO MAIN BUILDING GROUND BUSS BAR/ROD/PANEL

3 TMGB CONNECTED TO BUILDING GROUND DETAIL

NOT TO SCALE



NOTES:

- RACK AS SHOWN PER PLANS AND AS SPECIFIED IN PROJECT MANUAL.
- CABLE RUNWAY WALL TO RACK KIT EQUAL TO CHATSWORTH #11911-712.
- BRACE TOP, BOTH DIRECTIONS, WITH CHATSWORTH UNIVERSAL EARTHQUAKE BRACING KIT.

1. FLOOR MOUNT RACK WE BE SECURED TO CONCRETE FLOOR WITH A MINIMUM OF FOUR (4) 3/8" DIAMETER WEDGE ANCHOR BOLTS. MINIMUM EMBEDDED CONCRETE DEPTH OF 1-3/4". EQUAL TO ICC ESR #1917.
2. WALL MOUNT KITS WILL BE SECURED TO WALL WITH A MINIMUM OF TWO (2) 3/8" X 4" LAG BOLTS AT CENTERLINE OF STUD.

4 FLOOR MOUNTED 2 POST RACK DETAIL

NOT TO SCALE

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BESSIE OWENS JUNIOR HIGH MODERNIZATION

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OPSC or OSHPD PROJ. NO:	
PROJECT NO:	118934
DRAWN BY:	Author
CHK'D BY:	Checker
ISSUE DATE:	08/27/2019

SHEET TITLE

INSTALLATION SHEET

SHEET NUMBER

PHASE III

T4.3

PLOT DATE:

ELITE MODULAR

DRAWINGS PREPARED FOR:

BAKERSFIELD BESSIE OWENS JHS

(x1) 24x40 PARENT CTR BLDG.

ELITE MODULAR JOB #: EMS 5050

GENERAL NOTES	BUILDING DATA
SEE PC 04-116668 SHEET A-0	
APPLICABLE STANDARDS	
SEE PC 04-116668 SHEET A-0	SEE PC 04-116668 SHEET A-0
APPLICABLE CODES	
SEE PC 04-116668 SHEET A-0	

SHEET INDEX

PROJECT SPECIFIC SHEET INDEX

SHT NO.	ARCHITECTURAL
A-0N	COVER SHEET
A-0.2N	PROJECT SPECIFIC SCHEDULES
A-1.03N	FLOOR PLAN 24X40 PARENT CTR.
A-2.03N	REFLECTED CEILING PLAN 24X40 PARENT CTR.
A-3.03N	ROOF PLAN 24X40 PARENT CTR.
A-4.03N	EXTERIOR ELEVATIONS 24X40 PARENT CTR.
A-6.01N	INTERIOR ELEVATIONS

SHT NO.	PLUMBING
P-1.03N	PLUMBING PLAN, ISOMETRICS & SCHEDULES - 24X40 PARENT CTR.

SHT NO.	MECHANICAL
M-1.03N	MECHANICAL PLAN 24X40 PARENT CTR.

SHT NO.	ELECTRICAL
E-1.03N	ELECTRICAL PLAN 24X40 PARENT CTR.

40' PC 04-116668 SHEET INDEX

SHT NO.	ARCHITECTURAL
A-0	COVER SHEET
A-0A	T & I FORMS - NON STOCKPILE
A-0.0	BUILDING OPTIONS SCHEDULE
A-0.1	SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE
A-0.2	SCHEDULES
A-0.5A	ENERGY CALC'S - PRF FORMS - ZONE 14 WORST CASE 24x40
A-0.5B	ENERGY CALC'S - PRF FORMS - ZONE 15 WORST CASE 24x40
A-0.5C	ENERGY CALC'S - PRF FORMS - ZONE 16 WORST CASE 24x40
A-0.6A	ENERGY CALC'S - ELC FORMS - 24' x 40' BUILDINGS
A-0.6B	ENERGY CALC'S - LTO / MCH FORMS - 24' x 40' BUILDINGS
A-0.7	DESIGN ENERGY VALUES BY ZONE & CALGREEN SPECIFICATIONS
A-1.01	FLOOR PLAN - 24' x 40'
A-1.07	OPTIONAL 24 x 40 TOILET BUILDING PLUMBING PLAN & ISOMETRICS
A-2.01	REFLECTED CEILING PLAN - 24' x 40'
A-2.20	CEILING DETAILS - T-GRID
A-2.21	CEILING DETAILS - HARD LID
A-3.31	ROOF PLAN - PARAPET - MONO OR DUAL SLOPE - 24' x 40'
A-3.80	ROOF DETAILS - PARAPET
A-3.90	ROOF DETAILS - TPO ROOF
A-4.21	EXTERIOR ELEVATIONS - MONO OR DUAL SLOPE - 24' x 40' (PARAPET)
A-5.01	CROSS SECTION - MONO SLOPE - 0.018", B.U., OR TPO RF. DECK OR PARAPET
A-5.05	CROSS SECTION
A-5.51	ARCHITECTURAL DETAILS - WOOD STUD - PLASTER
A-5.70	ARCHITECTURAL DETAILS - FLOOR
A-5.80	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-5.81	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-6.01	INTERIOR ELEVATIONS - 24' x 40'

SHT NO.	FOUNDATION
F-2.11	CONCRETE FOUNDATION PLAN - BELOW GRADE - CONCRETE FLOOR
F-2.50	CONCRETE FOUNDATION DETAILS - BELOW GRADE
F-2.51	FOUNDATION DETAILS - CONCRETE

SHT NO.	STRUCTURAL
S-0.1	STRUCTURAL SPECIFICATIONS
S-1.11	FLOOR FRAMING PLAN - CONCRETE FLOOR
S-1.60	FLOOR FRAMING DETAILS - CONCRETE FLOOR
S-2.03	ROOF FRAMING PLAN - PARAPET - MONO SLOPE
S-2.50	ROOF FRAMING DETAILS - MONO SLOPE
S-2.60	ROOF FRAMING DETAILS
S-2.70	ROOF FRAMING DETAILS - PARAPET
S-2.90	ROOF FRAMING DETAILS - TRUSS
S-3.01	BUILDING SECTION - MONO SLOPE ROOF
S-5.00	WALL FRAMING ELEVATIONS - WOOD STUDS
S-5.10	WALL FRAMING DETAILS - WOOD STUDS
S-5.11	WALL FRAMING DETAILS - WOOD STUDS

SHT NO.	PLUMBING
P-1.01	PLUMBING DETAILS AND SCHEDULE

SHT NO.	MECHANICAL
M-0.1	MECHANICAL NOTES, SCHEDULES, AND DETAILS
M-2.01	MECHANICAL PLAN - ROOF MOUNT - 24' x 40'
M-2.02	MECHANICAL ROOF PLAN - ROOF MOUNT - 24' x 40'

SHT NO.	ELECTRICAL
E-1.01	ELECTRICAL PLAN - 24' x 40'

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ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

COVER SHEET

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS

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PROJECT NO:
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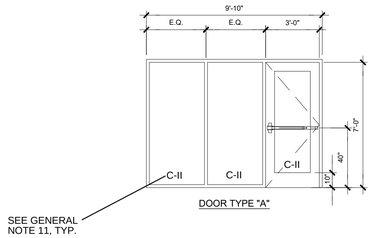
DATE: 8-28-2019

SHEET NUMBER

A-0N

PHASE III

DOOR TYPES & NOTES



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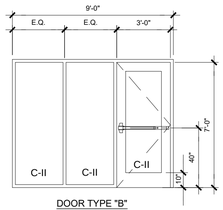

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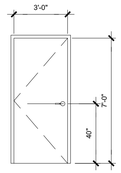


DOOR TYPE "C"

1. DOOR HANDLE FOR LOCKSETS AND PANIC HARDWARE TO BE CENTED AT 40" AFF HARDWARE TO BE OPENED FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. LEVERS TO RETURN TO WITHIN 1/2" OF DOOR.
2. ALL DOORS SHALL BE 1 3/4" THICK U.N.O.
3. CLOSER SHALL BE SET FOR MAXIMUM OPENING PRESSURE OF 5 LBS AT EXTERIOR AND INTERIOR DOORS.
4. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER.
5. ALL HARDWARE SHALL COMPLY WITH SILVER CREEK'S SPECS ON THIS SHEET AND CBC SECTIONS 11B-206.5,11B-404.1 & 1010.
6. DOOR CLOSER SHALL BE ADJUSTED TO SO THAT FROM AN OPEN POSITION OF 90°, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO A POINT 12° FROM THE LATCH, MEASURED TO THE LANDING SIDE OF THE DOOR.
7. PANIC AND FIRE EXIT HARDWARE. WHERE THIS TYPE HARDWARE IS INSTALLED, IT SHALL COMPLY WITH THE FOLLOWING;
   - THE ACTUATING PORTION OF THE RELEASING DEVICE SHALL EXTEND AT LEASE ONE-HALF OF THE DOOR LEAF WIDTH.
   - THE MAXIMUM FORCE TO ACTIVATE ANY OPERABLE PART SHALL NOT EXCEED 5 LBS PER THE 2016 CBC, PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1010.1.10
8. ALL HAND ACTIVATED HARDWARE SHALL BE LEVER TYPE, PANIC BARS, PUSH/PULL TYPE OR 'U' SHAPED HANDLES.
9. ALL HAND ACTIVATED HARDWARE SHALL BE EASY TO OPERATE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST TO OPERATE.
10. FLOOR STOP SHALL BE LOCATED 4" MAX FROM FACE OF WALL.
11. GLAZING SHALL MEET MINUMUM CATEGORY CLASS II (C-II)

WINDOW SCHEDULE

WINDOW NO.	QTY	TYPE	WIDTH	HEIGHT	FUNCTION	FRAME MATERIAL	GLASS MATERIAL	WALL THICKNESS	NOTES
A		1	4'-0"	4'-0"	FIXED	SF	DP		

WINDOW FINISH

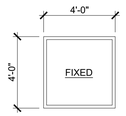
ANOD: BRONZE ANODIZED ALUMINUM FRAME
SF: BRONZE STOREFRONT FRAME

DP: 3/16" MINIMUM DUAL PANE TEMPERED GLASS OF SOLAR BAN 60, ALL OPERABLE SASH SHALL HAVE SCREENS.

DP2: 3/16" MINIMUM DUAL PANE CLEAR TEMPERED GLASS

NOTE:
PROVIDE VICORE FLASHING A ALL EXTERIOR DOORS & WINDOWS

WINDOW TYPE



WINDOW TYPE "1"

NOTE:
1. OPERABLE WINDOW CONTROLS SHALL COMPLY WITH CBC 11B.309.4 AND SHALL NOT REQUIRE TIGHT GRASPING,PINCHING OR TWISTING OF THE WRIST
2. WINDOW CONTROLS SHALL NOT REQUIRE MORE THAN 5LBS OF FORCE TO OPEREATE
3. THE REQUIRED FORCE TO PUSH/PULL THE WINDOW PANEL SHALL NOT EXCEED 5LBS

DOOR SCHEDULE

DOOR NO	WIDTH	HEIGHT	DOOR TYPE	QTY	DOOR MAT/FIN	FRAME MAT/FIN	HARDWARE SET	WALL THICKNESS	NOTES*
1	3'-0"	7'-0"	A		SF	SF	HW - 1 BY STOREFRONT MANUFACTURER		SOLAR BAN 60 TEMPERED GLASS
2	3'-0"	7'-0"	B		SF	SF	HW - 1 BY STOREFRONT MANUFACTURER		SOLAR BAN 60 TEMPERED GLASS
3	3'-0"	7'-0"	C		SCB	SF	HW - 2		

DOOR MATERIAL AND FINISH ABBREVIATIONS

HM:	18GA HOLLOW METAL	KD:	KNOCK DOWN FRAME
WF:	16GA WELDED FRAME	SCB:	SOLID CORE BIRCH
SF:	BRONZE STOREFRONT	HC:	HOLLOW CORE WOOD
SST:	STAINLESS STEEL	PT:	PAINTED

*EXTERIOR DOORS TO BE UNINSULATED SINGLE LAYER DOORS W/ U-FACTOR OF 0.500 MAX

FINISH SCHEDULE

ROOM NAME	FLOORING		WALL FINISH				CEILING		
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT	NOTES
CLASSROOM 101	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
STAFF 102	CT	CT	CT	CT	CT	CT	CT	8'-0	

FLOOR, WALL, CEILING MATERIALS

FLOORING
CARP: CARPET PER STATE OF CALIFORNIA SPECIFICATIONS COMPLYING WITH GROUP 1; TYPE "A" OR TYPE "B"; CLASS 2; DENSITY 4600; DIRECT GLUE DOWN
SV: SHEET VINYL FLOORING
CT: CERAMIC TILE

BASE
4" TS: 4" TOP SET BASE
6" TS: 6" TOP SET BASE
CT: CERAMIC TILE BASE

WALLS
TACK: 1/2" VINYL TACKBOARD (KOROSEAL) CLASS 1 OVER ½" GYPSUM BOARD BACKING
CT: FULL HEIGHT CERAMIC TILE FINISH
GYP: 1/2" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH

CEILING
CP: ACOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATION NOTES ON REFLECTED CEILING PLAN)
HC: 5/8" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH (HARD LID CEILING)

INSULATION SPECIFICATIONS

MOISTURE PROTECTION INSULATION:

DESCRIPTION OF WORK: THE FURNISHING AND INSTALLING OF ALL INSULATION FOR ALL CEILING, FLOOR AREAS, PIPES AND EXTERIOR WALLS. (CLASS A = 0-25 FLAME SPREAD:) SMOKE DEVELOPMENT DENSITY LESS THAN 450.

MATERIAL: INSULATING MATERIAL FOR WALLS, CEILINGS, AND FLOORS SHALL BE FIBERGLASS BATTS (UNFACED) AND SHALL COMPLY WITH CBC 720.1, 720.2, 720.3, 720.5 AND 720.7. INSULATION SHALL BE AS MANUFACTURED BY OWENS-CORNING FIBERGLASS CORPORATION, JOHNS-MANVILLE, CERTAINTIES, OR EQUAL.

INSULATION VALUES
SEE SHEETS A-0.7 FOR MINIMUM REQUIRED INSULATION VALUES FOR SPECIFIC BUILDING SIZE AND CONFIGURATION.

EXTERIOR WALL INSULATION (MIN.)
- ☐ R-13 (2x4)
- ☒ R-19 (2x6)
- ☐ R-30 (2x8)

INTERIOR WALL INSULATION (MIN.)
R-13

FLOOR INSULATION (MIN.)
R-19

ROOF INSULATION (MIN.)
R-30

FINISH NOTES

1. ALL FINISHES SHALL COMPLY WITH CBC, CFC AND TITLE 19 CCR.
2. PREPARATION FOR SUB-FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. PLYWOOD SUB-FLOOR IS 2.4.1. PLYWOOD. OUTER PLYWOOD IS PLUGGED AND TOUCH SANDED. ANY DEFORMITIES DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR. THE JOINT AT THE MODLINE SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.
3. RESILIENT FLOORING DEMONSTRATING A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM D2047, WILL BE ACCEPTED AS MEETING THE INTENT OF SLIP RESISTANCE.
4. CARPET SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT, OR LEVEL CUT / UNCUT PILE TEXTURE AND MAXIMUM PILE HEIGHT OF 1/2" PER THE 2016 CBC. CARPET EDGED SHALL COMPLY WITH THE 2016 CBC

DOOR HARDWARE

(STOREFRONT DOOR HARDWARE BY DOOR MANUFACTURER)

STOREFRONT DOOR - EXTERIOR DOOR HW-1

EXIT DEVICE	VON DUPRIN AX-98EO-PA-LD x 1439 STK
BUTTS	HAGER BB1191 4 1/2" x 4 1/2" NRP
CLOSER	CLR P90
WEATHER STRIP	BY STOREFRONT MANUFACTURER
THRESHOLD	BY STOREFRONT MANUFACTURER
DOOR BOTTOM	BY STOREFRONT MANUFACTURER

EMERGENCY EXIT AND PANIC HARDWARE IS TO COMPLY WITH SFM STANDARD 12-10-3, SECTION 12-10-302:
a) THE CROSS BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE.
d) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.

STAFF RESTROOM - INTERIOR DOOR HW-2

LOCKSET	YALE AU5402LN x 1210	Finish 26D	or equal
BUTTS	HAGER 1279 4 1/2" x 4 1/2"	Finish 26D	or equal

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ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

PROJECT SPECIFIC SCHEDULES

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NO:
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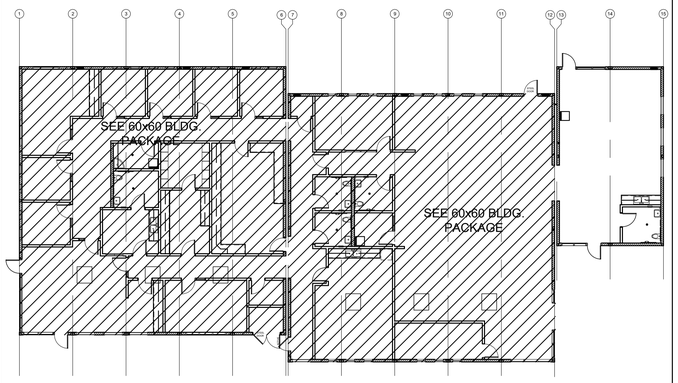
PHASE III



KEY PLAN — SCALE: 1/4" = 1' - 0" — A

Building K Occcupancy						
Number	Name	Occupancy	Area	Occupant Load Factor	Occupant Count	Required # of Exits
101	LOBBY	B	544 SF	100	6	1
102	JANITOR	B	56 SF	300	1	1
103	OFFICE 1	B	103 SF	100	2	1
104	OFFICE 2	B	103 SF	100	2	1
105	PRINCIPAL	B	281 SF	100	3	1
106	OFFICE 3	B	102 SF	100	2	1
107	OFFICE 4	B	107 SF	100	2	1
108	OFFICE 5	B	101 SF	100	2	1
109	OFFICE 6	B	104 SF	100	2	1
111	TEACHER'S WORK RM	B	398 SF	100	4	1
112	WORK ROOM	B	155 SF	100	2	1
113	NURSE	B	123 SF	100	2	1
114	FILES	B	110 SF	100	2	1
115	RR	B	80 SF	-	-	1
117	CONF. ROOM	B	214 SF	15	15	1
118	DATA	B	43 SF	100	1	1
119	ELEC. ROOM	B	44 SF	100	1	1
120	LIBRARY	B	1908 SF	100	20	1
121	OFFICE	B	159 SF	100	2	1
122	TEACHER'S LOUNGE	B	404 SF	100	5	1
124	GROUP STUDY	B	208 SF	100	3	1
125	DATA	B	22 SF	100	1	1
126	RR	B	60 SF	-	-	1
127	RR	B	60 SF	-	-	1
128	RR	B	63 SF	-	-	1
129	SUPPLIES	B	63 SF	300	1	1
130	RR	B	67 SF	-	-	1
131	PARENT CENTER	B	809 SF	100	9	1

NOTE:
SEE P-1.03N FOR RESTROOM ACCESSORIES LIST

DETAIL SCHEDULE

FINISH:	SHEET #:
☒ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51

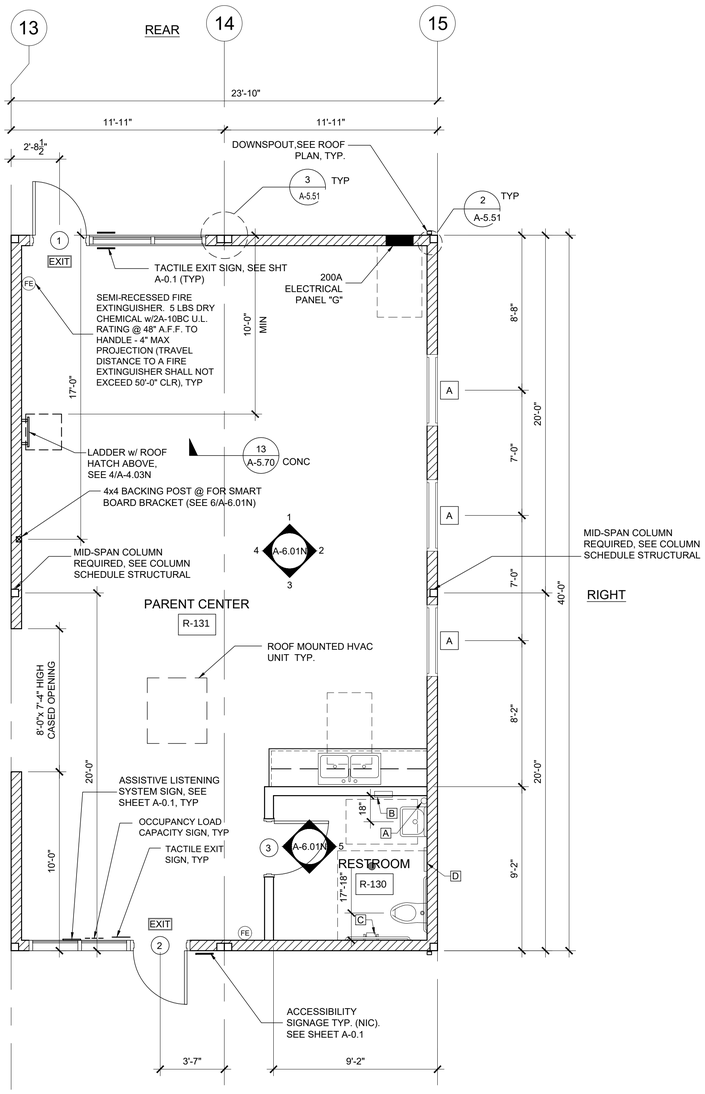
WALL LEGEND

NOMINAL 6" WALL STUD

NOMINAL 4" WALL STUD

A WINDOW PER SCHEDULE SHEET A-0.2

(#) DOOR PER SCHEDULE SHEET A-0.2



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FLOOR PLAN
24x40 PARENT CTR.

REGISTERED PROFESSIONAL ENGINEER JOHN W STARKEY 2975 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

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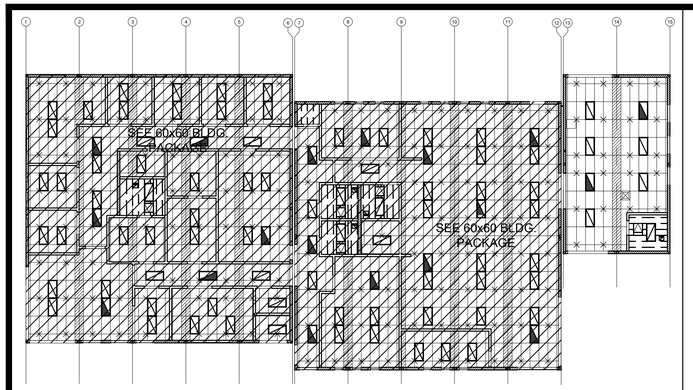
A-1.03N

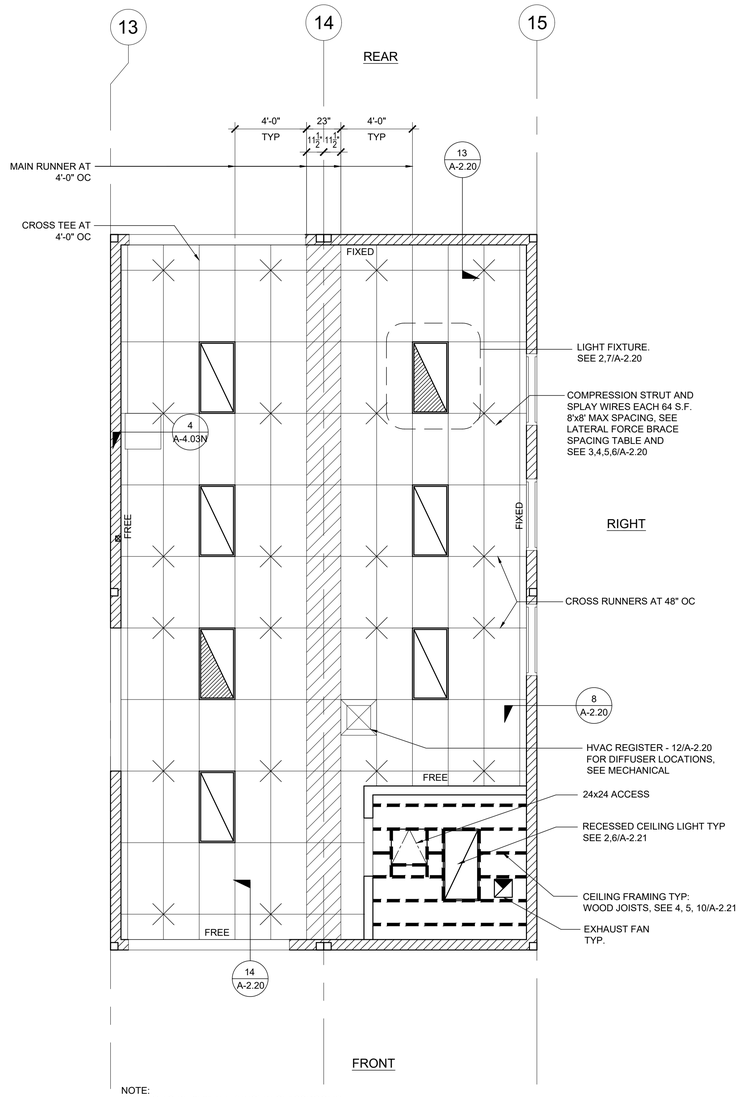
PHASE III

FLOOR PLAN — SCALE: 1/4" = 1' - 0" — 1



KEY PLAN — SCALE: 1/4" = 1' - 0" — A

NOTE:
SEE PC SHEET A-2.01
FOR CEILING NOTES
AND LEGEND



NOTE:
CEILING TO BE 9'-0" AFF (UNO) IN CLASSROOMS
8'-0" AFF (UNO) IN TOILET & ELECTRICAL ROOMS

REFLECTED CEILING PLAN — SCALE: 1/4" = 1' - 0" — 1

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REFLECTED CEILING PLAN
24x40 PARENT CTR.

REGISTERED PROFESSIONAL ENGINEER JOHN W STARK 2475 STRUCTURAL STATE OF CALIFORNIA

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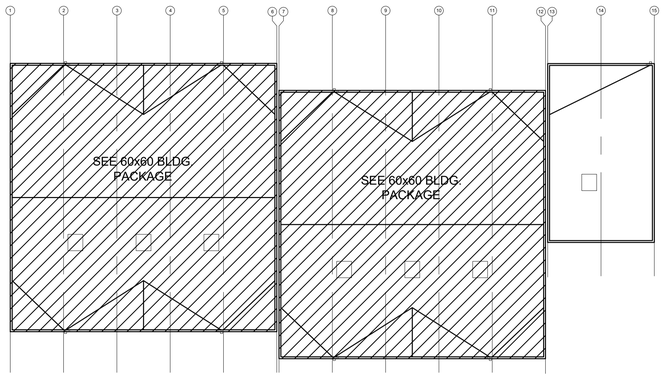
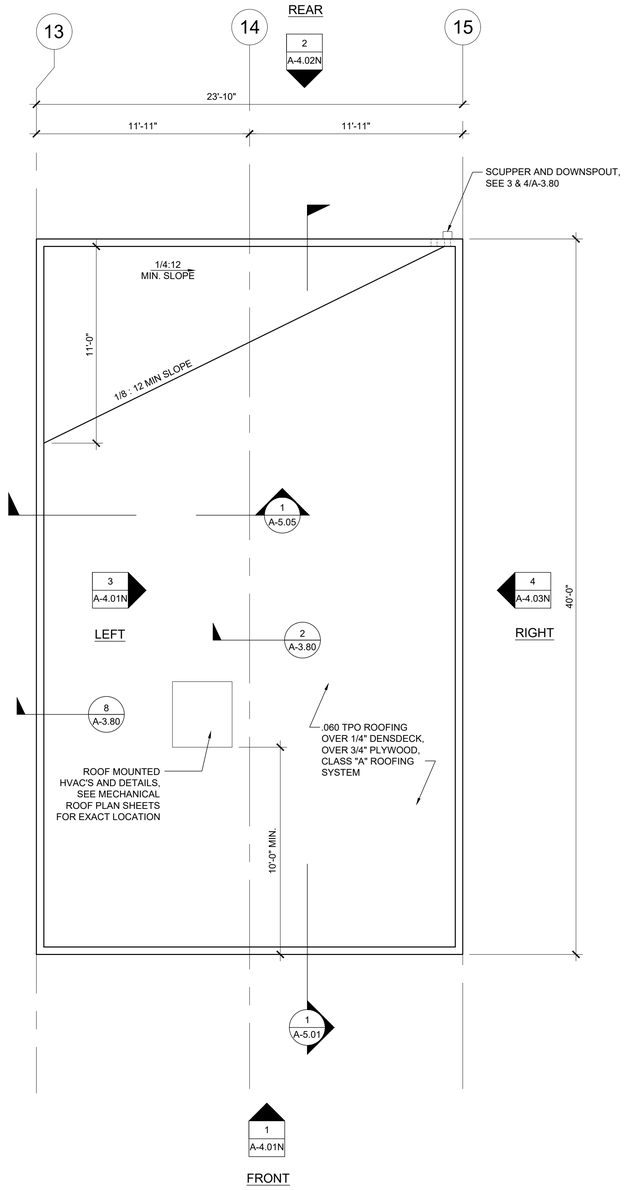
PHASE III



KEY PLAN — SCALE: 1/4" = 1' - 0" — A



REFLECTED CEILING PLAN — SCALE: 1/4" = 1' - 0" — 1

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PROJECT NAME:

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ROOF PLAN
24x40 PARENT CTR.

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARUCH
2475
STRUCTURAL
STATE OF CALIFORNIA

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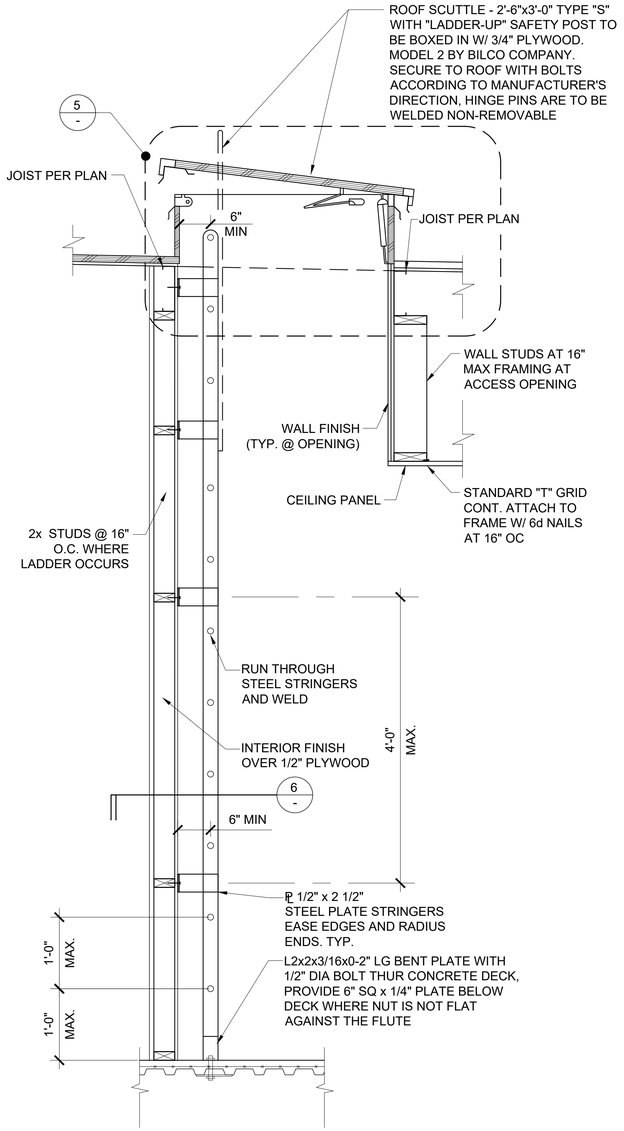
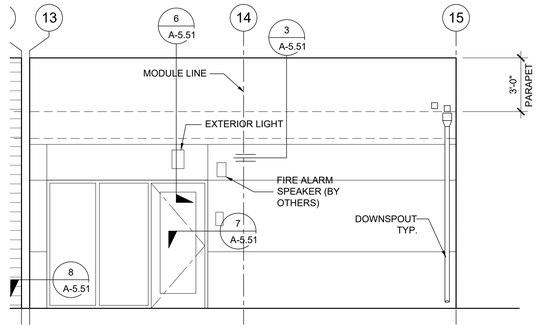


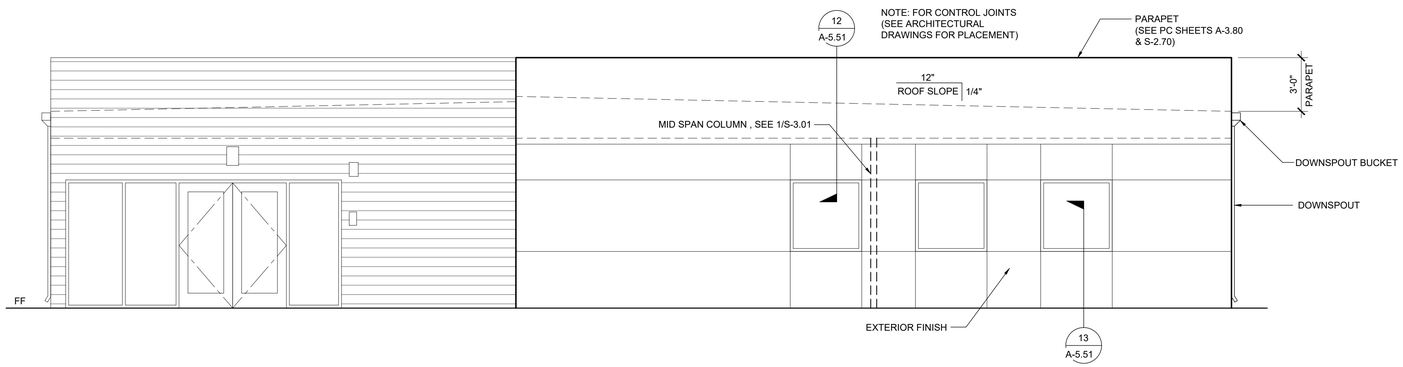
LADDER DETAIL SCALE: 1" = 1' - 0" | 4

BUILDING SEISMIC SEPARATIONS NOTE:
ALL PARAPET CAPS AND EXTERIOR SEISMIC SEPARATION CLOSE-UP MATERIALS TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS, NOT ELITE MODULAR. PLEASE SEE ARCHITECT's DRAWINGS FOR INSTALLATION DETAILS
(ELITE MODULAR TO PROVIDE AND INSTALL INTERIOR CLOSE-UPS ONLY)

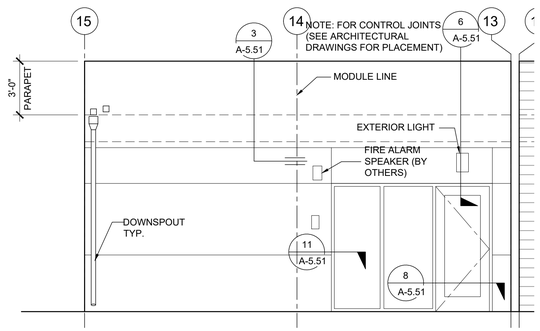
METAL SIDING NOTE:
EXTERIOR METAL SIDING TO BE PROVIDED AND INSTALLED ON SITE BY OTHERS, NOT ELITE MODULAR. PLEASE REFER TO ARCHITECT'S INSTALLATION DETAILS ON SHEET 3A8201



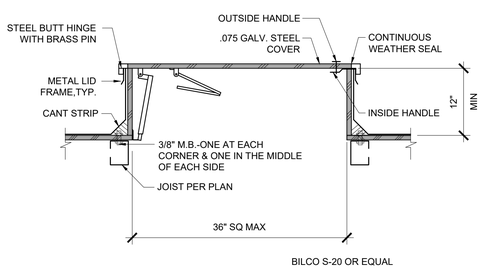
EXTERIOR ELEVATION SCALE: 1/4" = 1' - 0" | 1



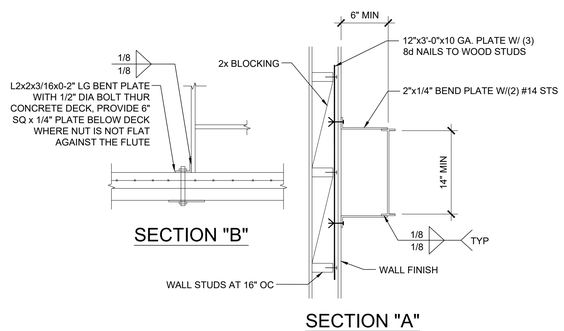
EXTERIOR ELEVATION SCALE: 1/4" = 1' - 0" | 2



EXTERIOR ELEVATION SCALE: 1/4" = 1' - 0" | 3



ROOF HATCH DETAIL SCALE: 1" = 1' - 0" | 5



LADDER SECTION DETAIL SCALE: 1" = 1' - 0" | 6

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EXTERIOR ELEVATIONS
24x40 PARENT CTR

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

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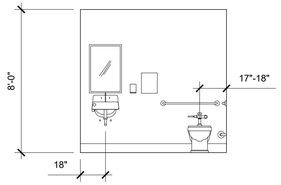
DATE: 8-28-2019

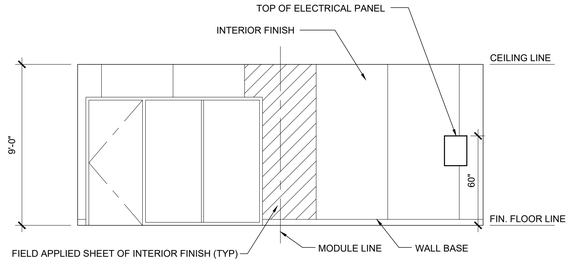
SHEET NUMBER
A-4.03N

PHASE III

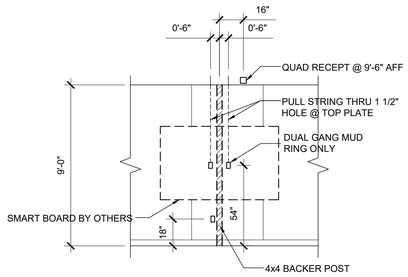


NOTE:
SEE SHEET P-1.01 FOR ACCESSIBLE
DIMENSIONING REQUIREMENTS.

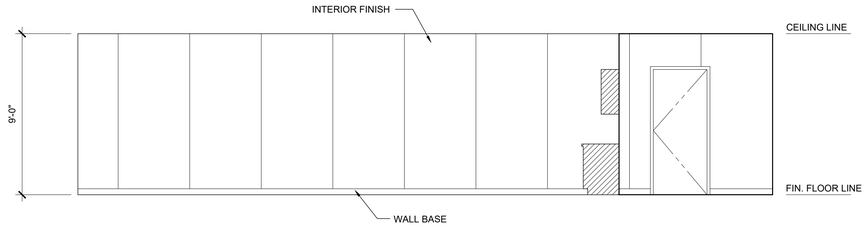
INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 5



INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 1

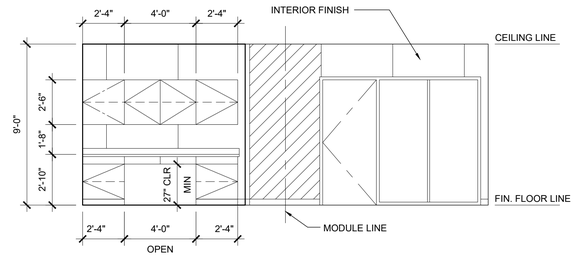


INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 6



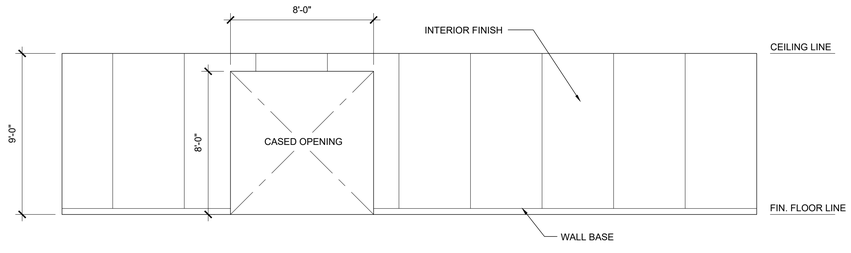
INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 2

NOT USED 7



INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 3

NOT USED 8



INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

INTERIOR ELEVATIONS

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 27975 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS
1
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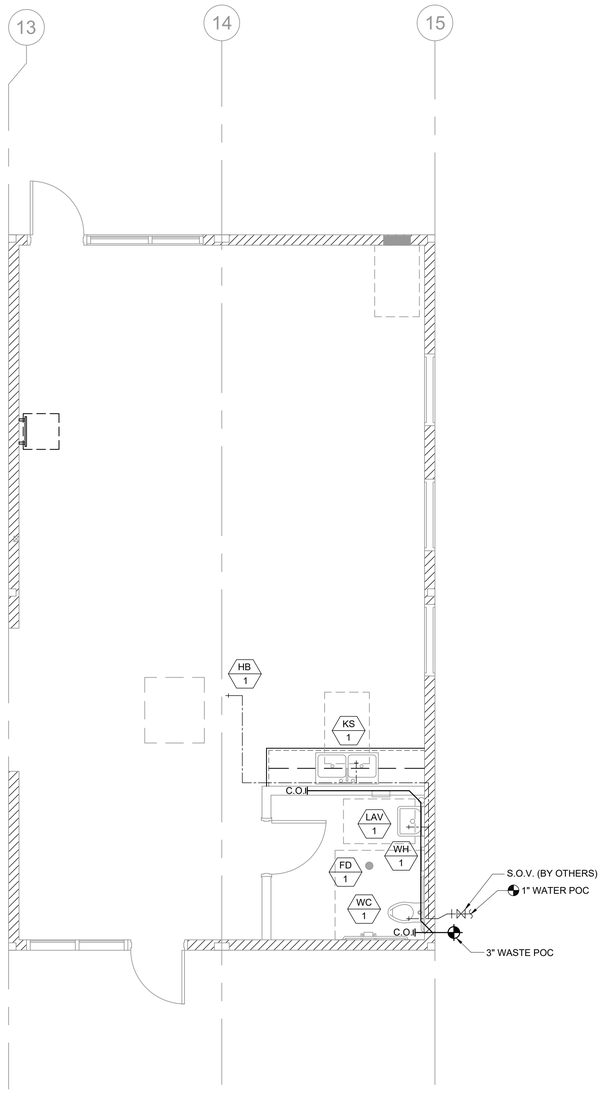
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 8-28-2019

SHEET NUMBER
A-6.01N

PHASE III

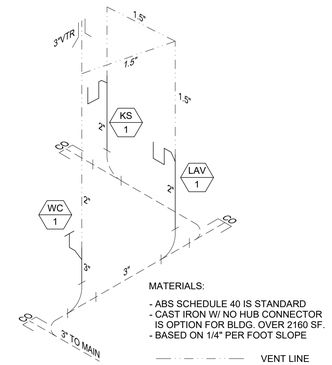
ACCESSORIES:

- BOBRICK B-165 24"x36" STAINLESS STEEL GLASS MIRROR
- BOBRICK B-6806 1 1/2" DIA. CLASSIC SERIES GRAB BAR (48" @ SIDE & 36" @ REAR IN ADA RESTROOMS)
- BOBRICK B-663 TOILET PAPER DISPENSER
- DEDICATED 230V J-BOX @ 36" AFF FOR ELECTRIC HAND DRYERS (HAND DRYERS TO BE PROVIDED & INSTALLED ON SITE BY OTHERS)



PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL)
WC 1	[ADULT] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	KOHLER KINGSTON #K-4330 ALT: AMERICAN STD #2257.103 16 3/4" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 10" ROUGH-IN; BEMIS #1955C ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
LAV 1	LAVATORY (ACCESSIBLE)	1/2"	-	2"	1 1/2"	KOHLER HUDSON #K-2861 CHINA; JAY R SMITH #722 CONCEALED HANGER; CHICAGO #3300-CP SINGLE HANDLE FAUCET
WHA 1	WATER HAMMER ARRESTOR	1"	-	-	-	PPP SC-1000
WH 2	INSTANT WATER HEATER (OPTION)	1/2"	1/2"	-	-	EEMAX #SP3012, 120V, 3.0KW, 25A
HB 1	HOSE BIBB	1/2"	-	-	-	FROST RESISTANT HOSE BIBB
KS 1	KITCHEN SINK	1/2"	-	2"	1 1/2"	ADA ACCESSIBLE DOUBLE BOWL KITCHEN SINK ELKAY STAINLESS STEEL SINK w/ HAWS 5054LF BUBBLER, HAWS 5510LF FAUCET, BRASS ANGLE STOPS, BRASSCRAFT COPPER FAUCET RISER, ONE PIECE WITH INSERT, BRASSCRAFT SPEEDI-PLUMB PLUS CONNECTOR & AQUAPURE WATER FILTER AP717
MS 1	MOP SINK	1/2"	1/2"	2"	1 1/2"	KOHLER K-6710 "WHITBY" 28"X28" CAST IRON W/ CHIGAGO FAUCET 956-R, 853 WALL HOOK, AND 2" K-9142 STRAINER
FD 1	FLOOR DRAIN	-	-	2"	1 1/2"	JAY R SMITH #2005YA-02-P050-NB. FLOOR DRAIN TAPPED FOR PRIMER. 5" NICKEL BRONZE STRAINER W/ 1/4" MAX. GRATE OPENINGS



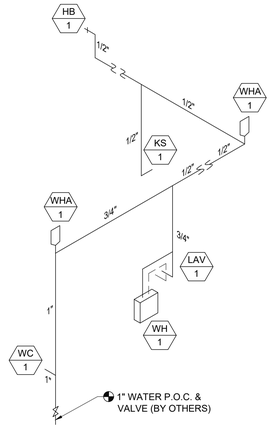
MATERIALS:

- ABS SCHEDULE 40 IS STANDARD
- CAST IRON W/ NO HUB CONNECTOR IS OPTION FOR BLDG. OVER 2160 SF..
- BASED ON 1/4" PER FOOT SLOPE

VENT LINE

WASTE LINE

WASTE ISOMETRIC



WATER ISOMETRIC

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ELITE MODULAR

PROJECT NAME:

SHEET TITLE:
PLUMBING PLAN, ISOMETRICS & SCHEDULES
24x40 PARENT CTR

REGISTERED PROFESSIONAL ENGINEER JOHN W STARUK 29175 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS

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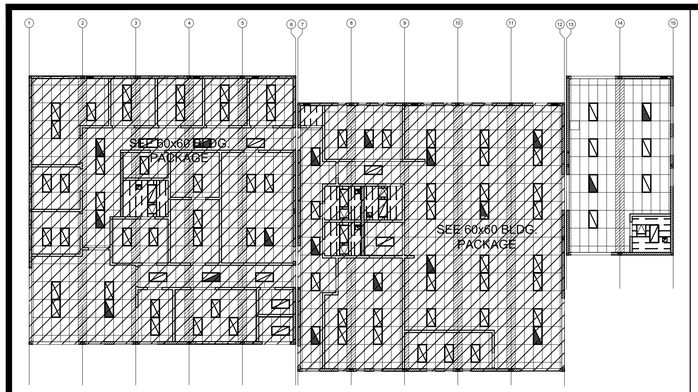
SCALE:	AS NOTED
DATE:	8-28-2019

SHEET NUMBER
P-1.03N

PHASE III

PLUMBING PLAN — SCALE: 1/4" = 1' - 0" — 1

PLUMBING ISOMETRICS & SCHEDULES — SCALE: 1/4" = 1' - 0" — 1



KEY PLAN — SCALE: 1/4" = 1'-0" — A

DRAWING SYMBOLS

- SUPPLY DUCT
- RETURN DUCT
- 12" NUMBER INDICATES DUCT SIZE
- FLEX DUCT (5'-0" MAX)
- RETURN REGISTER
- SUPPLY REGISTERS
- TRANSFER GRILL
- EXHAUST FAN
- 12"x12" HOLE THRU BEAM
- FIRE DAMPER
- SD DUCT SMOKE DETECTOR
- DIRECTIONAL AIR FLOW
- BAROMETRIC RELIEF DAMPER THRU WALL
- UCD UNDERCUT DOOR
- R BAROMETRIC RELIEF DAMPER THRU ROOF
- T THERMOSTAT
- CO2-S CO2 SENSOR
- DAMPER
- EQUIPMENT CALLOUT: TOP = EQUIPMENT TYPE, BOTTOM = IDENTIFICATION
- EP EXTRA PURLIN
- E ELECTRICAL LOCATION
- CD CONDENSATE DRAIN
- G GAS LOCATION

EQUIPMENT & MATERIAL

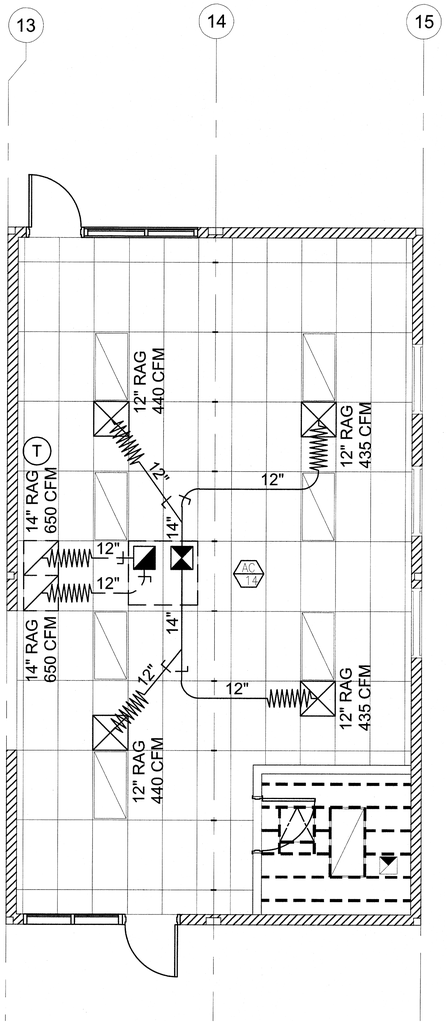
AC 1, AC 2, AC 3, AC 9 — DAY & NIGHT MODEL # PHD448000K000F1 PACKAGED ROOF MOUNTED HEAT PUMP
48,000 BTUH COOLING, SEER = 14.00
46,000 BTUH HEATING, HSPF = 8.00
1600 CFM NOMINAL @ .2" S.P., WT. = 525 LBS
230v 1 Ph 60 CY., MAX. F.L.A. = 28.3 AMPS.
WITH FACTORY ROOF CURB, OUTSIDE AIR INTAKE W/ FILTER RACK

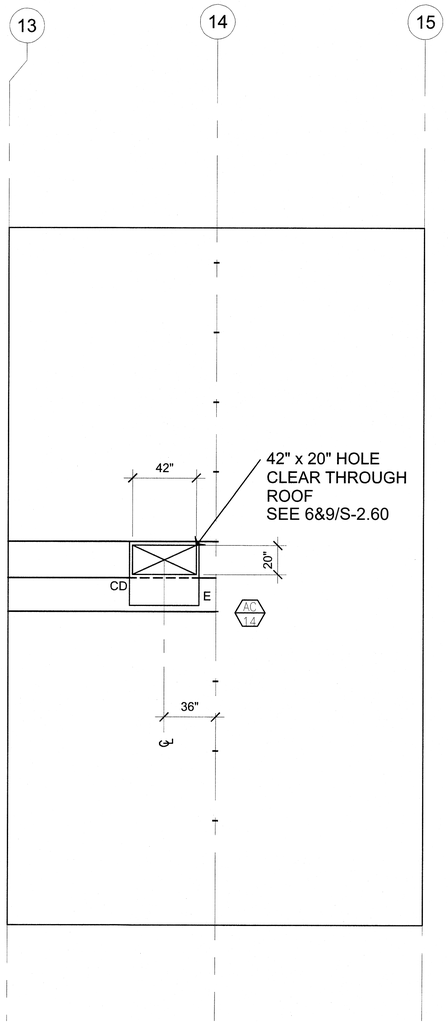
AC 4, AC 5, AC 6, AC 7, AC 8, AC 10, AC 11, AC 12, AC 13, AC 14 — DAY & NIGHT MODEL # PHD460000K000F1 PACKAGED ROOF MOUNTED HEAT PUMP
57,500 BTUH COOLING, SEER = 14.00
56,000 BTUH HEATING, HSPF = 8.00
1750 CFM @.2 S.P., WT. = 575 LBS.
230v 3 Ph 60 CY., MAX. F.L.A. = 33.4 AMPS.
WITH FACTORY ROOF CURB, OUTSIDE AIR INTAKE W/ FILTER RACK

FC 1, FC 2 — FUJITSU MODEL #ASU24RLB WALL MOUNTED AIR HANDLER
400 CFM NOMINAL, WT. = 31 LBS
208/230V – 1 PH – 60 CY

CU 1, CU 2 — FUJITSU MODEL #AOU24RLD CONDENSING UNIT
24,000 BTUH COOLING, SEER = 18.00 WT. = 86 LBS
208/230V – 1 PH – 60 CY, MAX F.L.A. = 10.5 AMPS

SUPPLY AIR PLENUMS	:	GALV. IRON SHEETS W/ 1" LINER INSULATION
RETURN AIR PLENUMS	:	GALV. IRON SHEETS W/ 1" LINER INSULATION
INTERIOR DUCTWORK	:	SPIRAL DUCTWORK W/ FSK INSULATION WRAP FLEX DUCT CLASS 1 UL-181, MAX LENGTH 5'-0"
SUPPLY AIR REGISTERS	:	US AIRE '7600' SERIES
RETURN AIR GRILLES	:	US AIRE '7600R' SERIES
THERMOSTAT	:	WHITE RODGERS '1F95' SERIES





MECHANICAL PLAN — SCALE: 1/4" = 1'-0" — 1

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SHEET TITLE:

MECHANICAL PLAN
24x40 PARENT CTR.

REGISTERED PROFESSIONAL ENGINEER JOHN W STARK 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS
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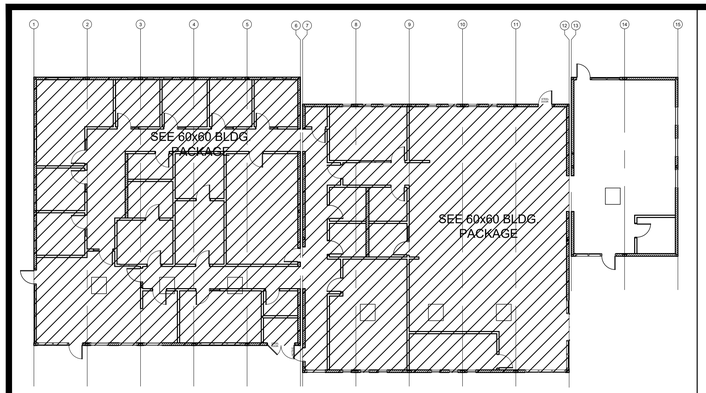
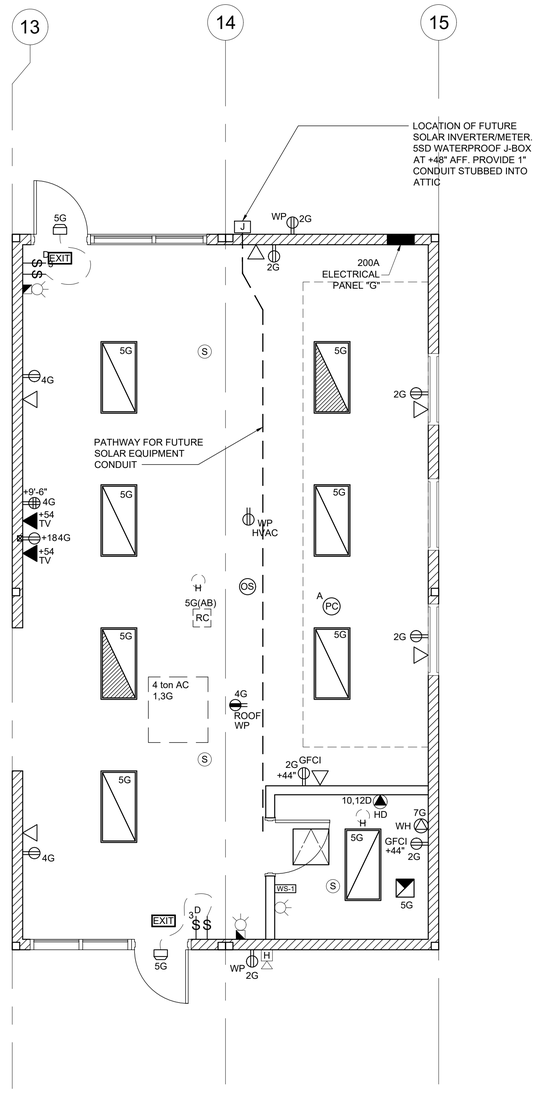
PHASE III



KEY PLAN — SCALE: 1/4" = 1' - 0" — A

PANEL: G	PHASE:		VOLTS:		BUSS:			MAIN:					LOCATION:			FEED:				MOUNTING:
SI N:	SINGLE		120/208		200 AMP			200A					INTERIOR			BOTTOM				RECESSED
OBJECT	WATT	NO.	WATTS		WIRE			CKT			CKT	WIRE				WATTS				OBJECT
DESCRIPTION	PER	OF	A	B	BRK	POLE	SIZE	NO	A	B	NO	SIZE	POLE	BRK		A	B	LCL	NO OF	WATT PER	DESCRIPTION
4 TON A/C	5428	1	x 5428		60	2	#6	1	X		2	#12	1	20		1260			7	180	RECEPTS
4 TON A/C	5428	/	x	5428	/	/	#6	3		X	4	#12	1	20			1080		6	180	RECEPTS
LIGHTS/ FANS	136	10	x 1360		20	1	#12	5	X		6	#10	2	30		2000			2	1000	HAND DRYER
INSTA-HOT W/ H	1500	1	x	1500	30	1	#10	7		X	8	#10	/	30			1000		/	1000	HAND DRYER
			0					9	X		10					0				
				0				41		X	42						0			
	LEG TOTALS		6788	6928												3260	2080	LEG TOTALS		
LCL=3429+19056=22485																				
TOTAL WATTS=22485					LEG BALANCE = 5.5%													TOTAL AMPS: 108.10		



ELECTRICAL LEGEND

- ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS & SPECS
- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 60 WATTS MAX.
- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 60 WATTS MAX. EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE EQUIPPED WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.
- 200A SINGLE PHASE, 42 SPACE ELECTRICAL PANEL STUBBED BELOW FLOOR w/3/4" CONDUIT TO ATTIC SPACE FOR FUTURE GROUNDING
- +88" IDF SP — PROVIDE *SURGE PROTECTED* DUPLEX OUTLET FOR FUTURE **IDF** CABINET. LOCATE AS INDICATED ON FLOOR PLAN & MOUNTED @ 88" A.F.F. (U.N.O.)
- DUPLEX (WALL MOUNTED) RECEPTACLE 15A - 125V - 3 WIRE. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF DEVICE
- GFI — GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS (SEE ELECTRICAL PLAN FOR MOUNTING HEIGHTS)
- WP — EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24 " AFF FOR A/C SERVICES (ONE RECEPTACLE FOR EVERY 2 UNITS)
- ROOF — ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE
- OS — CEILING MOUNTED OCCUPANCY SENSOR. WATTSTOPPER #LMPC-100 OR EQUAL.
- PC — CEILING MOUNTED PHOTOCELL, WATTSTOPPER #LMLS-500
- WS-1 — SINGLE SWITCH WALL OCCUPANCY SENSOR. WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM) LESS THAN 100 SQ FT W/ (1) CIRCUIT.
- RC — LIGHTING MANAGEMENT SYSTEM ROOM CONTROLLER, INSTALLED ABOVE CEILING, LOCATION AND # OF LOADS/ZONES TO BE VERIFIED, WATTSTOPER # LMRC-2XX
- $D — SINGLE BUTTON DIMMER SWITCH, AT +48" AFF. TO TOP OF OUTLET BOX, WATTSTOPPER #LMDM-101
- $ — LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- 4SD J-BOX w/ 1" CONDUIT & PULL STRING TO ATTIC SPACE MOUNTED AT 18" AFF FOR FUTURE DATA (DEVICES TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS)
- TV — DUAL GANG MUD RING ONLY MOUNTED AT 54" AFF WITH PULL STRING TO ATTIC SPACE THRU A 1 1/2" HOLE AT TOP PLATE FOR FUTURE TV (DEVICES TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS)
- 2 GANG FLOOR MNTD. J-BOX W/ (1) RECEPT & (1) PHONE/DATA, W/ PLASTIC COVER PLATES & CARPET RING, W/ 1" FLEX STUBBED BELOW FLOOR TO NEAREST WALL, UP TO THE ATTIC SPACE U.N.O. (NO BRAND SPECIFIED)
- T — 4SD J-BOX w/ HVAC CONTROL WIRE TO HVAC UNIT (THERMOSTAT TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS)
- EXIT — EXIT SIGN WITH 90 MIN. BATTERY BACK UP.
- EXTERIOR LIGHT FIXTURE W/ PHOTOCELL MOUNTED AT +93" AFF ***RAB LIGHTING SLIM 18*** (SHIPPED LOOSE & INSTALLED BY OTHERS)
- WH — HOT WIRED 4SD J-BOX FOR INSTA-HOT WATER HEATER
- HD — DEDICATED 230V 2-POLE HOT WIRED J-BOX @ 36" AFF FOR FUTURE HAND DRYER (DEVICE SUPPLIED & INSTALLED ON SITE BY OTHERS)
- H — 4SD J-BOX FOR EXTERIOR FIRE ALARM SPEAKER (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULL STRING
- +80" — 4SD J-BOX w/ 3/4" CONDUIT & PULL STRING TO ATTIC SPACE MOUNTED AT 80" AFF FOR FIRE ALARM HORN/STROBE (DEVICES TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS)
- 4SD J-BOX FOR FIRE ALARM STROBE OR VOICE EVAC SPEAKER (DEVICE BY OTHERS). BOTTOM OF LENS SHALL BE BETWEEN 80" AND 96" AFF AND WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULL STRING
- S — 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS
- H — 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS
- 100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH

NOTE:
PROVIDE TIME DELAY HVAC SHUT DOWN DOOR SWITCHES

NOTE:
ALL LIGHT SWITCH & RECEPTACLE COVER PLATES ARE TO BE STAINLESS STEEL (DATA J-BOXES TO HAVE NO COVERS)

NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.

ELECTRICAL PLAN — SCALE: 1/4" = 1' - 0" — 1

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ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

ELECTRICAL PLAN
24x40 PARENT CTR.

REGISTERED PROFESSIONAL ENGINEER JOHN W STARK 2975 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NO:
DRAWN BY:
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E-1.03N

PHASE III

MODULAR CLASSROOM BUILDINGS

BUILDING SIZE: 24' X 40'

~~EXPANDABLE TO 120' X 40'~~

PC 04-116668

BY

SILVER CREEK INDUSTRIES, INC.

2830 BARRETT AVE, PERRIS, CALIFORNIA 92571
PHONE : (951) 943-5393 FAX : (951) 943-2211

GENERAL NOTES

1. FIRE ALARM IS NOT PART OF THIS APPROVAL
2. ALLOWABLE AREA IS BASED ON 10' SET BACK FROM IMAGINARY ASSUMED LINE PER 2016 CBC 705.3
3. THIS PC IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.
4. PC IS DESIGNED AS A SINGLE STORY MODULAR BUILDING
5. FOR SOILS TYPES / DESIGN BEARING STRENGTH, SEE STRUCTURAL SPECIFICATIONS
6. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
7. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USES
8. EXTERIOR WALL OPENINGS TO COMPLY W/ 705.8, 2016 CBC.
9. EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED WHERE REQUIRED BY SECTIONS 705.2 & 1406.
10. SEE SHEETS A-0.7 FOR REQUIRED BUILDING ENVELOPE ASSEMBLIES AND HVAC SYSTEM.
11. PURSUANT TO D.S.A. APPROVAL ALL PRODUCTS CAN BE SUBSTITUTED BY AN "EQUAL"
12. BUILDING(S) TO BE LOCATED IN ANY FIRE HAZARD SEVERITY ZONE OR ANY WILDLAND - URBAN INTERFACE FIRE AREA SHALL COMPLY WITH CBC CHAPTER 7A AND SHALL NOT UTILIZE THE TUBULAR SKYLIGHT OPTION INCLUDED WITHIN THIS PC.
13. THIS PC IS NOT DESIGNED FOR USE WITHIN A 65 CNEL NOISE CONTOUR AND THIS PC DOES NOT COMPLY WITH CAL GREEN SECTION 5.507.4.1. IF THIS PC BUILDING IS SITE ADAPTED TO A SITE THAT MEETS THE REQUIREMENTS OF CAL GREEN SECTION 5.507.4.1. THE SITE SPECIFIC DRAWING PACKAGE MUST INCLUDE COMPLIANT ASSEMBLIES FOR THE WALLS, ROOF, WINDOWS & DOORS.
14. ALL SPACES WITH A DESIGN FLOOR LIVE LOAD GREATER THAN 50 PSF SHALL HAVE SIGN (BY OTHERS) POSTED ADJACENT TO THE MAIN ENTRY DOOR WHICH INDICATES THE MAXIMUM ALLOWABLE LIVE LOAD.

APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIF AMENDED)	2016 EDITION
NFPA 72	NAT. FIRE ALARM CODE (CALIF. AMENDED)	2016 EDITION
	(NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	

APPLICABLE CODES

LIST OF 2016 CALIFORNIA CODE OF REGULATIONS

2016 BUILDING ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
2016 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2, PART 2, TITLE 24 C.C.R.
(2015 INTERNATIONAL BUILDING CODE VOLUMES 1-2 & 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2014 NATIONAL ELECTRICAL CODE & 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
(2015 IAPMO UNIFORM MECHANICAL CODE & 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2015 IAPMO UNIFORM PLUMBING CODE & 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2015 INTERNATIONAL FIRE CODE & 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
NFPA 13 AUTOMATIC SPRINKLER SYSTEMS 2013 EDITION (WHERE APPLICABLE)
NFPA 72 NATIONAL FIRE ALARM CODE 2013 EDITION (WHERE APPLICABLE)
(NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")

BUILDING DATA

NUMBER OF STORIES:	1 - STORY	
OCCUPANCY:	E or B	
TYPE OF CONSTRUCTION:	V-B	
FLOOR LIVE LOAD:	☐ 50 PSF	☒ 50+15 PSF PARTITION LOAD
	☐ 100 PSF	☐ 150 PSF
ROOF LIVE LOAD:	20 PSF	
FLOOR DEAD LOAD:	☐ WOOD FLOOR - 11 PSF	☒ CONCRETE FLOOR - 33 PSF
ROOF DEAD LOAD:	13.5 PSF (INCLUDING SPRINKLER LOAD AND 1 PSF SOLAR LOAD)	
RAMP LIVE LOAD:	100 PSF	
BUILDING AREA:	☒ 24'x40' BLDG - 960 S.F.	☐ 84'x40' BLDG - 3,360 S.F.
	☐ 36'x40' BLDG - 1,440 S.F.	☐ 96'x40' BLDG - 3,840 S.F.
	☐ 48'x40' BLDG - 1,920 S.F.	☐ 108'x40' BLDG - 4,320 S.F. ✻
ALLOWABLE AREA: 9,000 S.F.	☐ 60'x40' BLDG - 2,400 S.F.	☐ 120'x40' BLDG - 4,800 S.F. ✻
	☐ 72'x40' BLDG - 2,880 S.F.	✻ SEE S-0.1 FOR GEOTECHNICAL REPORT REQUIREMENT
(ALL w/o OVERHANGS)		
FOUNDATION:	☐ WOOD	☒ CONCRETE
CEC CLIMATE ZONE:	1-16	

ALLOWABLE SOIL PRESSURE

DL (WOOD FOOTING)	1,000 psf
DL + LL (WOOD FOOTING - 1,000 PSF MAX)	1,000 psf
DL + LL + SNOW (WOOD FOOTING)	1,000 psf
DL + LL + SEISMIC (WOOD FOOTING)	1,000 psf
DL + LL (CONCRETE FOOTING)	1,500 psf
DL + LL + SEISMIC (CONCRETE FOOTING)	1,500 psf

ROOF SNOW LOAD

GROUND SNOW LOAD, P_g FROM COUNTY	0
ROOF SNOW LOAD: ☑ FLAT P_f OR ☐ LOW-SLOW, P_m OR ☐ SLOPED, P_s	
SNOW EXPOSURE FACTOR C_s	-
SNOW IMPORTANCE FACTOR I_s	1.0
THERMAL FACTOR C_t	-

FLOOD DESIGN

FLOOD HAZARD AREA YES ☐ NO ☑	

WIND DESIGN

BASIC WIND SPEED (3 SECOND GUST) V_{ult}	129
RISK CATEGORY	II
WIND EXPOSURE CATEGORY	C
TOPOGRAPHIC FACTOR K_{zt}	1

SEISMIC DESIGN

LATERAL FORCE-RESISTING SYSTEM	OMF
ANALYSIS PROCEDURE	EQIV. LATERAL FORCE
SEISMIC DESIGN CATAGORY (SDC)	E
SEISMIC IMPORTANCE FACTOR I_e	1.0
SEISMIC RESPONSE COEFFICIENT C_s	0.380
RESPONSE MODIFICATION COEFFICIENT R	3.5
SITE CLASS	D
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD S_s USED TO DETERMINE PARAMETERS & NON-STRUCTURAL COMPONENT ANCHOR (NO CAP)	2.85
SHORT PERIOD SITE COEFFICIENT F_a	1.0
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD S_{DS} USED TO DETERMINE C_s (WITH CAP PER CBC, SECTION 1616A 1.12)	1.33
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD S_{XS} USED TO DETERMINE OTHER PARAMETERS & NON-STRUCTURAL COMPONENT ANCHOR (NO CAP)	1.90
MAPPED SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD S_1	2.0
LONG PERIOD SITE COEFFICIENT, F_v	1.5
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD S_{D1}	2.0
HORIZONTAL OR VERTICAL IRREGULARITY TYPES	NONE

SHEET INDEX

SHT NO.	ARCHITECTURAL
A-0	COVER SHEET
A-0A	T & I FORMS - NON STOCKPILE
A-0.0	BUILDING OPTIONS SCHEDULE
A-0.1	SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE
A-0.2	SCHEDULES
~~A-0.3~~	~~TYPICAL KEY PLANS - 24' TO 120' x 40'~~
A-0.5A	ENERGY CALC'S - PRF FORMS - ZONE 14 WORST CASE 24x40
A-0.5B	ENERGY CALC'S - PRF FORMS - ZONE 15 WORST CASE 24x40
A-0.5C	ENERGY CALC'S - PRF FORMS - ZONE 16 WORST CASE 24x40
~~A-0.5D~~	~~ENERGY CALC'S - PRF FORMS - ZONE 14 WORST CASE 120x40~~
~~A-0.5E~~	~~ENERGY CALC'S - PRF FORMS - ZONE 15 WORST CASE 120x40~~
~~A-0.5F~~	~~ENERGY CALC'S - PRF FORMS - ZONE 16 WORST CASE 120x40~~
A-0.6A	ENERGY CALC'S - ELC FORMS - 24' x 40' BUILDINGS
A-0.6B	ENERGY CALC'S - LTO / MCH FORMS - 24' x 40' BUILDINGS
~~A-0.6C~~	~~ENERGY CALC'S - SINGLE MODULE - TOILET BUILDING~~
~~A-0.6D~~	~~ENERGY CALC'S - TWO MODULE - TOILET BUILDING~~
A-0.7	DESIGN ENERGY VALUES BY ZONE & CALGREEN SPECIFICATIONS
A-1.01	FLOOR PLAN - 24' x 40'
~~A-1.02~~	~~FLOOR PLAN - 36' x 40'~~
~~A-1.03~~	~~FLOOR PLAN - 48' TO 120' x 40'~~
~~A-1.04~~	~~OPTIONAL 12 x 40 TOILET MODULE PLANS & ELEVATIONS~~
~~A-1.05~~	~~OPTIONAL 12 x 40 TOILET MODULE PLUMBING PLAN & ISOMETRICS~~
~~A-1.06~~	~~OPTIONAL 24 x 40 TOILET BUILDING PLANS & ELEVATIONS~~
A-1.07	OPTIONAL 24 x 40 TOILET BUILDING PLUMBING PLAN & ISOMETRICS
A-2.01	REFLECTED CEILING PLAN - 24' x 40'
~~A-2.02~~	~~REFLECTED CEILING PLAN - 36' x 40'~~
~~A-2.03~~	~~REFLECTED CEILING PLAN - 48' TO 120' x 40'~~
A-2.20	CEILING DETAILS - T-GRID
A-2.21	CEILING DETAILS - HARD LID
~~A-3.01~~	~~ROOF PLAN - 0.018" METAL DECK - MONO OR DUAL SLOPE - 24' x 40'~~
~~A-3.02~~	~~ROOF PLAN - 0.018" METAL DECK - MONO OR DUAL SLOPE - 36' x 40'~~
~~A-3.03~~	~~ROOF PLAN - 0.018" METAL DECK - MONO SLOPE - 48' TO 120' x 40'~~
~~A-3.04~~	~~ROOF PLAN - 0.018" METAL DECK - DUAL SLOPE - 48' TO 120' x 40'~~
~~A-3.11~~	~~ROOF PLAN - 0.036" METAL DECK - MONO OR DUAL SLOPE - 24' x 40'~~
~~A-3.12~~	~~ROOF PLAN - 0.036" METAL DECK - MONO OR DUAL SLOPE - 36' x 40'~~
~~A-3.13~~	~~ROOF PLAN - 0.036" METAL DECK - MONO SLOPE - 48' TO 120' x 40'~~
~~A-3.14~~	~~ROOF PLAN - 0.036" METAL DECK - DUAL SLOPE - 48' TO 120' x 40'~~
A-3.31	ROOF PLAN - PARAPET - MONO OR DUAL SLOPE - 24' x 40'
~~A-3.32~~	~~ROOF PLAN - PARAPET - MONO OR DUAL SLOPE - 36' x 40'~~
~~A-3.33~~	~~ROOF PLAN - PARAPET - MONO SLOPE - 48' TO 120' x 40'~~
~~A-3.34~~	~~ROOF PLAN - PARAPET - DUAL SLOPE - 48' TO 120' x 40'~~
~~A-3.41~~	~~ROOF PLAN - TPO - MONO OR DUAL SLOPE - 24' x 40'~~
~~A-3.42~~	~~ROOF PLAN - TPO - MONO OR DUAL SLOPE - 36' x 40'~~
~~A-3.43~~	~~ROOF PLAN - TPO - MONO SLOPE - 48' TO 120' x 40'~~
~~A-3.44~~	~~ROOF PLAN - TPO - DUAL SLOPE - 48' TO 120' x 40'~~
~~A-3.50~~	~~ROOF DETAILS - 0.018" STANDING SEAM ROOF DECK~~
~~A-3.60~~	~~ROOF DETAILS - 0.036" STANDING SEAM ROOF DECK~~
~~A-3.61~~	~~ROOF DETAILS - 0.036" STANDING SEAM ROOF DECK~~
A-3.80	ROOF DETAILS - PARAPET
A-3.90	ROOF DETAILS - TPO ROOF
~~A-4.01~~	~~EXTERIOR ELEVATIONS - MONO OR DUAL SLOPE - 24' x 40'~~
~~A-4.02~~	~~EXTERIOR ELEVATIONS - MONO SLOPE - 36' x 40'~~
~~A-4.03~~	~~EXTERIOR ELEVATIONS - DUAL SLOPE - 36' x 40'~~
~~A-4.04~~	~~EXTERIOR ELEVATIONS - MONO SLOPE - 48' TO 120' x 40'~~
~~A-4.05~~	~~EXTERIOR ELEVATIONS - DUAL SLOPE - 48' TO 120' x 40'~~
A-4.21	EXTERIOR ELEVATIONS - MONO OR DUAL SLOPE - 24' x 40' (PARAPET)
~~A-4.22~~	~~EXTERIOR ELEVATIONS - MONO OR DUAL SLOPE - 36' x 40' (PARAPET)~~
~~A-4.23~~	~~EXTERIOR ELEVATIONS - MONO OR DUAL SLOPE - 48' x 120' x 40' (PARAPET)~~
A-5.01	CROSS SECTION - MONO SLOPE - 0.018", B.U., OR TPO RF. DECK OR PARAPET
~~A-5.02~~	~~CROSS SECTION - DUAL SLOPE - 0.018", B.U., OR TPO RF. DECK OR PARAPET~~
~~A-5.03~~	~~CROSS SECTION - MONO SLOPE - 0.036" ROOF DECK~~
~~A-5.04~~	~~CROSS SECTION - DUAL SLOPE - 0.036" ROOF DECK~~
A-5.05	CROSS SECTION
~~A-5.50~~	~~ARCHITECTURAL DETAILS - WOOD STUD - WOOD SIDING~~
A-5.51	ARCHITECTURAL DETAILS - WOOD STUD - PLASTER
~~A-5.52~~	~~ARCHITECTURAL DETAILS - WOOD STUD - WOOD SIDING - 1 HOUR RATED~~
~~A-5.53~~	~~ARCHITECTURAL DETAILS - WOOD STUD - PLASTER - 1 HOUR RATED~~
~~A-5.60~~	~~ARCHITECTURAL DETAILS - STEEL STUD - WOOD SIDING~~
~~A-5.61~~	~~ARCHITECTURAL DETAILS - STEEL STUD - PLASTER~~
~~A-5.62~~	~~ARCHITECTURAL DETAILS - STEEL STUD - WOOD SIDING - 1 HOUR RATED~~
~~A-5.63~~	~~ARCHITECTURAL DETAILS - STEEL STUD - PLASTER - 1 HOUR RATED~~
~~A-5.64~~	~~ARCHITECTURAL DETAILS - 1 HOUR RATED OPTIONS~~
A-5.70	ARCHITECTURAL DETAILS - FLOOR
A-5.80	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-5.81	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-6.01	INTERIOR ELEVATIONS - 24' x 40'
~~A-6.02~~	~~INTERIOR ELEVATIONS - 36' x 40'~~
~~A-6.03~~	~~INTERIOR ELEVATIONS - 48' TO 120' x 40'~~

SHT NO.	FOUNDATION
~~F-0.01~~	~~WOOD FOUNDATION PLAN - 24' x 40' (50 PSF)~~
~~F-0.02~~	~~WOOD FOUNDATION PLAN - 24' x 40' (50+15 PSF)~~
~~F-0.03~~	~~WOOD FOUNDATION PLAN - 24' x 40' (100 PSF)~~
~~F-0.04~~	~~WOOD FOUNDATION PLAN - 24' x 40' (150 PSF)~~
~~F-0.11~~	~~WOOD FOUNDATION PLAN - 36' x 40' (50 PSF)~~
~~F-0.12~~	~~WOOD FOUNDATION PLAN - 36' x 40' (50+15 PSF)~~
~~F-0.13~~	~~WOOD FOUNDATION PLAN - 36' x 40' (100 PSF)~~
~~F-0.14~~	~~WOOD FOUNDATION PLAN - 36' x 40' (150 PSF)~~
~~F-0.21~~	~~WOOD FOUNDATION PLAN - 48' x 40' (50 PSF)~~
~~F-0.22~~	~~WOOD FOUNDATION PLAN - 48' x 40' (50+15 PSF)~~
~~F-0.23~~	~~WOOD FOUNDATION PLAN - 48' x 40' (100 PSF)~~
~~F-0.24~~	~~WOOD FOUNDATION PLAN - 48' x 40' (150 PSF)~~
~~F-0.50~~	~~FOUNDATION DETAILS - WOOD~~
~~F-1.01~~	~~CONCRETE FOUNDATION PLAN - ABOVE GRADE - WOOD FLOOR~~
~~F-1.11~~	~~CONCRETE FOUNDATION PLAN - ABOVE GRADE - CONCRETE FLOOR~~
~~F-1.50~~	~~CONCRETE FOUNDATION DETAILS - ABOVE GRADE~~
~~F-2.01~~	~~CONCRETE FOUNDATION PLAN - BELOW GRADE - WOOD FLOOR~~
F-2.11	CONCRETE FOUNDATION PLAN - BELOW GRADE - CONCRETE FLOOR
F-2.50	CONCRETE FOUNDATION DETAILS - BELOW GRADE
F-2.51	FOUNDATION DETAILS - CONCRETE

SHT NO.	STRUCTURAL
S-0.1	STRUCTURAL SPECIFICATIONS
~~S-1.01~~	~~FLOOR FRAMING PLAN - WOOD FLOOR~~
S-1.11	FLOOR FRAMING PLAN - CONCRETE FLOOR
~~S-1.50~~	~~FLOOR FRAMING DETAILS - WOOD FLOOR~~
S-1.60	FLOOR FRAMING DETAILS - CONCRETE FLOOR
~~S-2.01~~	~~ROOF FRAMING PLAN - 0.018", BUILT-UP, OR TPO ROOF - MONO SLOPE~~
~~S-2.02~~	~~ROOF FRAMING PLAN - 0.036" - MONO SLOPE~~
S-2.03	ROOF FRAMING PLAN - PARAPET - MONO SLOPE
~~S-2.11~~	~~ROOF FRAMING PLAN - 0.018", BUILT-UP, OR TPO ROOF - DUAL SLOPE~~
~~S-2.12~~	~~ROOF FRAMING PLAN - 0.036" - DUAL SLOPE~~
~~S-2.13~~	~~ROOF FRAMING PLAN - PARAPET - DUAL SLOPE~~
S-2.50	ROOF FRAMING DETAILS - MONO SLOPE
~~S-2.51~~	~~ROOF FRAMING DETAILS - DUAL SLOPE~~
S-2.60	ROOF FRAMING DETAILS
S-2.70	ROOF FRAMING DETAILS - PARAPET
S-2.90	ROOF FRAMING DETAILS - TRUSS
S-3.01	BUILDING SECTION - MONO SLOPE ROOF
~~S-3.02~~	~~BUILDING SECTION - DUAL SLOPE ROOF~~
~~S-3.03~~	~~BUILDING SECTION - 0.036" MONO SLOPE ROOF~~
~~S-3.04~~	~~BUILDING SECTION - 0.036" DUAL SLOPE ROOF~~
S-5.00	WALL FRAMING ELEVATIONS - WOOD STUDS
S-5.10	WALL FRAMING DETAILS - WOOD STUDS
S-5.11	WALL FRAMING DETAILS - WOOD STUDS
~~S-5.20~~	~~WALL FRAMING ELEVATIONS - STEEL STUDS~~
~~S-5.30~~	~~WALL FRAMING DETAILS - STEEL STUDS~~
~~S-5.31~~	~~WALL FRAMING DETAILS - STEEL STUDS~~

SHT NO.	PLUMBING
P-1.01	PLUMBING DETAILS AND SCHEDULE

SHT NO.	MECHANICAL
M-0.1	MECHANICAL NOTES, SCHEDULES, AND DETAILS
~~M-1.01~~	~~MECHANICAL PLAN - WALL MOUNT - 24' x 40'~~
~~M-1.02~~	~~MECHANICAL PLAN - WALL MOUNT - 36' x 40'~~
~~M-1.03~~	~~MECHANICAL PLAN - WALL MOUNT - 48' TO 120' x 40'~~
M-2.01	MECHANICAL PLAN - ROOF MOUNT - 24' x 40'
M-2.02	MECHANICAL ROOF PLAN - ROOF MOUNT - 24' x 40'
~~M-3.01~~	~~MECHANICAL PLAN - ROOF MOUNT - 36' x 40'~~
~~M-3.02~~	~~MECHANICAL ROOF PLAN - ROOF MOUNT - 36' x 40'~~
~~M-4.01~~	~~MECHANICAL PLAN - ROOF MOUNT - 48' TO 120' x 40'~~
~~M-4.02~~	~~MECHANICAL ROOF PLAN - ROOF MOUNT - 48' TO 120' x 40'~~

SHT NO.	ELECTRICAL
E-1.01	ELECTRICAL PLAN - 24' x 40'
~~E-1.02~~	~~ELECTRICAL PLAN - 36' x 40'~~
~~E-1.03~~	~~ELECTRICAL PLAN - 48' TO 120' x 40'~~

SHT NO.	RAMP
~~R-1.01~~	~~STANDARD RAMP PLAN~~
~~R-1.02~~	~~OFFSET RAMP PLAN~~
~~R-1.03~~	~~RAMP LANDING~~
~~R-1.04~~	~~STANDARD LANDING WITH STEPS~~
~~R-1.05~~	~~SWITCHBACK RAMP PLAN~~
~~R-2.01~~	~~RAMP DETAILS~~
~~R-3.01~~	~~CONCRETE RAMP~~

SHT NO.	RELOCATABLE SHEETS
~~REL-101~~	~~BUILDING RELOCATION DETAILS~~
~~REL-102~~	~~BUILDING RELOCATION DETAILS~~

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ORIGINATING WITH SCI Inc S

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

COVER SHEET

REGISTERED PROFESSIONAL ENGINEER
JOHN W STANLEY
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

1	
2	
3	
4	
5	
6	
7	
8	

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER

A-0

PHASE III

The example form DSA 103s shown on this sheet are for illustration purposes only. A form DSA 103 is to be completed for each application that this PC is being incorporated into and all example form DSA-103s ar to be crossed out on this drawing.

- UT TESTING SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS COLUMN SPLICES OR BEAM SPLICES WHERE THE MATERIAL THICKNESS BEING WELDED IS 5/16" OR GREATER.
- UT TEST SHALL NOT BE REQUIRED TO BE PERFORMED ON CJP GROOVE WELDS WHERE THE MATERIAL THICKNESS BEING WELDED IS 1/4" OR LESS.
- MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM TO COLUMN OR TRUSS CHORD TO COLUMN CJP GROOVE WELDS.

Note: References are to the 2016 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE	PERFORMED BY	CODE REFERENCE AND NOTES
-	**SOILS**			
-	**1. GENERAL:**	**Table 1705A.6**		
X	**a.** Verify that: • site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, • foundation excavations are extended to proper depth and have reached proper material, and • materials below footings are adequate to achieve the design bearing capacity.	**Periodic**	**GE***	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
-	**2. COMPACTED FILLS:**	**Table 1705A.6**		
X	**a.** Perform classification and testing of fill materials.	**Test**	**LOR***	* Under the supervision of the geotechnical engineer.
X	**b.** Verify use of proper materials, densities and inspect lift thicknesses, placement, and compaction during placement of fill.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
X	**c.** Test compaction of fill.	**Test**	**LOR***	* Under the supervision of the geotechnical engineer.
-	**CONCRETE**	**Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13**		
-	**7. CAST IN PLACE CONCRETE**			
	Material Verification and Testing:			
X	**a.** Verify use of required design mix.	**Periodic**	**SI***	**Table 1705A.3 Item 5, 1910A.1** (1909.2.3*). * To be performed by qualified batch-plant inspector and concrete sampling technician
X	**b.** Identify, sample, and test reinforcing steel.	**Test**	**LOR**	**1910A.2** (1909.2.4*); ACI 318-14 Section 26.6.1.2. DSA IR 17-10.16
X	**c.** During concrete placement, fabricate specimens for strength tests,perform slump and air content tests, and determine the temperature of the concrete.	**Test**	**LOR**	**Table 1705A.3 item 6**; ACI 318-14 Sections 26.5 & 26.12
X	**d.** Test concrete (f'_c).	**Test**	**LOR**	**1905A.1.16** (1909.3.7*); ACI 318-14 Section 26.12.
	Inspection:			
X	**e.** Batch plant inspection ○ Continuous ◉ Periodic	**See Notes**	**SI**	Default of **"Continuous"** per **1705A.3.3**; If approved by DSA, batch plant inspection may be reduced to **'Periodic'** subject to requirements in Section **1705A.3.3.1** or eliminated per **1705A.3.3.2**. (See Appendix for exemptions.)
+	**MASONRY**	**TMS 402-13/ACI 530-13/ASCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5**		
-	**STEEL, ALUMINUM**	**Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10**		
-	**17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES**			
	Material Verification:			
X	**a.** Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	**Periodic**	*	**2203A.1** (2203.1*), **Table 1705A.2.1 Item 3a-3c;** AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S200-12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when performed off-site.
X	**b.** Test unidentified materials	**Test**	**LOR**	**2203A.1** (2203.1*).
X	**c.** Examine seam welds of HSS shapes	**Periodic**	**SI**	DSA IR 17-3.
	Inspection:			
X	**e.** Verify and document steel fabrication per DSA approved construction documents.	**Periodic**	**SI**	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).
-	**19. WELDING:**			**1705A.2.5, Table 1705A.2.1 Items 4 & 5;** DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.)
	Verification of Materials, Equipment, Welders, etc:			
X	**a.** Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	**Periodic**	**SI**	DSA IR 17-3.
X	**b.** Verify weld filler material manufacturer's certificate of compliance.	**Periodic**	**SI**	DSA IR 17-3.
X	**c.** Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.
-	**19.1 SHOP WELDING:**			
X	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	**Continuous**	**SI**	**Table 1705A.2.1 Item 5a1-4.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	**b.** Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1.** Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3.
-	**19.2 FIELD WELDING:**			
X	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	**Continuous**	**SI**	**Table 1705A.2.1 Item 5a1-4.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	**b.** Inspect single-pass fillet welds ≤ 5/16"	**Periodic**	**SI**	**Table 1705A.2.1 Item 5a.5.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	**f.** Inspect welding of stairs and railing systems	**Periodic**	**SI***	**1705A.2.1;** Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
-	**20. NONDESTRUCTIVE TESTING:**			
X	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1 & 1705A.2.5.** AISC 360-10 N5.5, AISC 341-10 J6.2. AWS D1.1, D1.8. ANSI/ASNT CP-189, SNT-TC-1A. DSA IR 17-2.
X	**b.** Magnetic Particle	**Test**	**LOR**	
-	**21. STEEL JOISTS AND TRUSSES:**			
+	**WOOD**			
-	**OTHER**			
X	**28. Electrical grounding**	**Test**	**PI**	Electrical grounding test per IR E-1.

List of required verified report(s):

1 Soils testing and Inspection: Geotechnical Verified Report - Form DSA-293
2 All Structural Testing: Laboratory Verified Report - Form DSA-291
3 Concrete Batch Plant Inspection: Laboratory Verified Report - Form DSA-291
4 Shop Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
5 Field Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
6 Steel Joist Fabrication Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292

KEY to Columns

1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	**GE** – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	**LOR** – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test – Indicates that a test is required	**SI** – Indicates that the special inspection is to be performed by a special inspector

CONCRETE FLOOR AND/OR CONCRETE FOUNDATION | 2

Appendix: Work Exempt from DSA Requirements for Special Inspection or Structural Testing

Exempt items given in IR A-22 or the 2016 CBC (including DSA amendments) and those items identified below with an "X" by the design professional are NOT subject to DSA requirements for the structural tests or special inspections noted. Items marked as exempt shall be identified by either: 1) listing specific details/sheets noted in the spaces provided below OR 2) on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

Exempted by Design Prof.	Soils:
	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per 2016 CBC Table 1806A.2 and having no geotechnical report for the following types of structures: free standing sign, scrolling message sign, scoreboard, covered walkway or shade structure with dead load less than 5 psf and other light-weight structures of which the apex is less than 8' above the highest adjacent grade.
X	2. Shallow foundations meeting the exception item #1 criteria specified in 2016 CBC Section 1803A.2.
(Optional) List details for applicable exempt items:	

	Concrete/Masonry:
X	1. Post-installed anchors for the following: 1) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding") given in CBC Section 1616A.1.18 (which replaces ASCE 7-10, Section 13.1.4) or 2) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
X	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.3 subject to the requirements and limitations in that section.
	3. Masonry retaining walls less than 4'-0" above the top of foundation not supporting a surcharge and free standing nonbearing non-shear masonry walls up to 6'-0" above adjacent grade do not require grout, mortar or masonry core testing or DSA special inspection.
	4. Epoxy shear dowels in site flatwork.
(Optional) List details for applicable exempt items:	

Exempted by Design Prof.	Welding:
	1. Solid-clad and open-mesh gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
X	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the "Exception" language in Section 1705A.2.1); fillet welds cannot be ground flush.
X	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
X	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 200# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
X	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
X	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
X	7. Any support for exempt non-structural components given in CBC Section 1616A.1.18 (which replaces ASCE 7-10, Section 13.1.4) meeting the following: 1) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) <= 4' above supporting floor/roof, 2) when hung from a wall or roof/floor, <20# for discrete units or <5 psf for distributed systems.
(Optional) List details for applicable exempt items:	

WORK EXEMPT FROM SPECIAL INSPECTIONS OR TESTING | 1

Note: References are to the 2016 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE	PERFORMED BY	CODE REFERENCE AND NOTES
+	**SOILS**			
+	**CONCRETE**	**Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13**		
+	**MASONRY**	**TMS 402-13/ACI 530-13/ASCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5**		
-	**STEEL, ALUMINUM**	**Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10**		
-	**17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES**			
	Material Verification:			
X	**a.** Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	**Periodic**	*	**2203A.1** (2203.1*), **Table 1705A.2.1 Item 3a-3c;** AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S200-12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when performed off-site.
X	**b.** Test unidentified materials	**Test**	**LOR**	**2203A.1** (2203.1*).
X	**c.** Examine seam welds of HSS shapes	**Periodic**	**SI**	DSA IR 17-3.
	Inspection:			
X	**e.** Verify and document steel fabrication per DSA approved construction documents.	**Periodic**	**SI**	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).
-	**19. WELDING:**			**1705A.2.5, Table 1705A.2.1 Items 4 & 5;** DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.)
	Verification of Materials, Equipment, Welders, etc:			
X	**a.** Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	**Periodic**	**SI**	DSA IR 17-3.
X	**b.** Verify weld filler material manufacturer's certificate of compliance.	**Periodic**	**SI**	DSA IR 17-3.
X	**c.** Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.
-	**19.1 SHOP WELDING:**			
X	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	**Continuous**	**SI**	**Table 1705A.2.1 Item 5a1-4.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	**b.** Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1.** Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3.
-	**19.2 FIELD WELDING:**			
X	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	**Continuous**	**SI**	**Table 1705A.2.1 Item 5a1-4.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	**b.** Inspect single-pass fillet welds ≤ 5/16"	**Periodic**	**SI**	**Table 1705A.2.1 Item 5a.5.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	**f.** Inspect welding of stairs and railing systems	**Periodic**	**SI***	**1705A.2.1;** Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
-	**20. NONDESTRUCTIVE TESTING:**			
X	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1 & 1705A.2.5.** AISC 360-10 N5.5, AISC 341-10 J6.2. AWS D1.1, D1.8. ANSI/ASNT CP-189, SNT-TC-1A. DSA IR 17-2.
X	**b.** Magnetic Particle	**Test**	**LOR**	
-	**21. STEEL JOISTS AND TRUSSES:**			
+	**WOOD**			
-	**OTHER**			
X	**28. Electrical grounding**	**Test**	**PI**	Electrical grounding test per IR E-1.

List of required verified report(s):

1 All Structural Testing: Laboratory Verified Report - Form DSA-291
2 Shop Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
3 Field Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
4 Steel Joist Fabrication Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292

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Periodic – Indicates that a periodic special inspection is required	**LOR** – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test – Indicates that a test is required	**SI** – Indicates that the special inspection is to be performed by a special inspector

PLYWOOD FLOOR AND WOOD FOUNDATION | 1

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DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

T & I FORMS

REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 24475 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

FILE NUMBER: 33-SILVER

PRE-CHECK (PC) DOCUMENT CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS
1
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SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

P.C. SHEET NUMBER
A-0A

PHASE III

BUILDING OPTIONS SCHEDULE

ROOF FRAMING PLANS

		SHEET NUMBER
ROOF FRAMING DETAILS:	☒ MONO SLOPE	S-2.50
	☐ DUAL SLOPE	S-2.51
ROOF MISCELLANEOUS DETAILS:		S-2.60
ROOF FRAMING DETAILS:	☒ PARAPET - DETAILS	S-2.70
ROOF TRUSS:		S-2.90

BUILDING SECTION

		SHEET NUMBER
BUILDING SECTION:	☒ MONO SLOPE ROOF	S-3.01
	☐ DUAL SLOPE ROOF	S-3.02
	☐ 0.030" MONO SLOPE ROOF	S-3.03
	☐ 0.030" DUAL SLOPE ROOF	S-3.04

WALL FRAMING

		SHEET NUMBER
FRAMING ELEVATIONS:	☒ WOOD STUDS	S-5.00
	☐ STEEL STUDS	S-5.20
FRAMING DETAILS:	☒ WOOD STUDS	S-5.10
	☒ WOOD STUDS	S-5.11
	☐ STEEL STUDS	S-5.30
	☐ STEEL STUDS	S-5.31

PLUMBING

	SHEET NUMBER
☒ PLUMBING DETAILS AND SCHEDULES	P-1.01

MECHANICAL

	SHEET NUMBER
☒ MECHANICAL NOTES, SCHEDULES, AND DETAILS:	M-0.1
☐ 24' x 40' - WALL MOUNT	M-1.01
☐ 36' x 40' - WALL MOUNT	M-1.02
☐ 48' TO 120' x 40' - WALL MOUNT	M-1.03
☒ 24' x 40' - ROOF MOUNT	M-2.01
☒ 24' x 40' MECHANICAL ROOF PLAN	M-2.02
☐ 36' x 40' - ROOF MOUNT	M-3.01
☐ 36' x 40' MECHANICAL ROOF PLAN	M-3.02
☐ 48' TO 120' x 40' - ROOF MOUNT	M-4.01
☐ 48' TO 120' x 40' MECHANICAL ROOF PLAN	M-4.02

ELECTRICAL

		SHEET NUMBER
ELECTRICAL PLAN:	☒ 24' x 40'	E-1.01
	☐ 36' x 40'	E-1.02
	☐ 48' TO 120' x 40'	E-1.03

RAMP

	SHEET NUMBER
RAMP PLANS: ☐ STANDARD RAMP PLAN	R-1.01
☐ OFFSET RAMP PLAN	R-1.02
☐ RAMP LANDING	R-1.03
☐ STANDARD LANDING WITH STEPS	R-1.04
☐ SWITCHBACK RAMP PLAN	R-1.05
☐ RAMP DETAILS	R-2.01
☐ CONCRETE RAMP	R-3.01

BUILDING RELOCATABLE DETAILS

	SHEET NUMBER
☐ BUILDING RELOCATION DETAILS	REL-101 REL-102

EXTERIOR ELEVATION (CONTINUED)

			SHEET NUMBER
EXTERIOR ELEVATIONS:	☐ 36' x 40'	☐ MONO SLOPE	A-4.02
		☐ DUAL SLOPE	A-4.03
		☐ PARAPET ROOF - MONO SLOPE	A-4.22
		☐ PARAPET ROOF - DUAL SLOPE	A-4.22
EXTERIOR ELEVATIONS:	☐ 48' TO 120' x 40'	☐ MONO SLOPE	A-4.04
		☐ DUAL SLOPE	A-4.05
		☐ PARAPET ROOF - MONO SLOPE	A-4.23
		☐ PARAPET ROOF - DUAL SLOPE	A-4.23

CROSS SECTIONS

		SHEET NUMBER
CROSS SECTIONS:	☒ MONO SLOPE - 0.018", OR TPO ROOF DECK	A-5.01
	☐ DUAL SLOPE - 0.018", OR TPO ROOF DECK	A-5.02
	☐ MONO SLOPE - 0.030" ROOF DECK	A-5.03
	☐ DUAL SLOPE - 0.030" ROOF DECK	A-5.04
	CROSS SECTION	A-5.05

ARCHITECTURAL DETAILS

			SHEET NUMBER
WALL DETAILS:	☒ WOOD STUDS	☐ EXTERIOR WOOD SIDING	A-5.50
		☒ EXTERIOR PLASTER FINISH	A-5.51
		☐ EXTERIOR WOOD SIDING - 1 HOUR RATED	A-5.52
		☐ EXTERIOR PLASTER FINISH - 1 HOUR RATED	A-5.53
	☐ STEEL STUDS	☐ EXTERIOR WOOD SIDING	A-5.60
		☐ EXTERIOR PLASTER FINISH	A-5.61
		☐ EXTERIOR WOOD SIDING - 1 HOUR RATED	A-5.62
		☐ EXTERIOR PLASTER FINISH - 1 HOUR RATED	A-5.63
☐ 1-HOUR RATED OPTIONS			A-5.64
FLOOR DETAILS:			A-5.70

MISCELLANEOUS DETAILS

		SHEET NUMBER
MISCELLANEOUS:	☒ CASEWORK, TV, AND PROJECTION SCREEN DETAILS	A-5.80
	☒ WATER HEATER, DRINKING FOUNTAIN, AND FOLDING WALL DETAILS	A-5.81

INTERIOR ELEVATIONS

	SHEET NUMBER
☒ 24' x 40' INTERIOR ELEVATION	A-6.01
☐ 36' x 40' INTERIOR ELEVATION	A-6.02
☐ 48' TO 120' x 40' INTERIOR ELEVATION	A-6.03

FOUNDATIONS

		SHEET NUMBER
☐ WOOD FOUNDATION PLAN	☐ 24' x 40' (50 PSF)	☐ F-0.01
	☐ 24' x 40' (50+15 PSF)	☐ F-0.02
	☐ 24' x 40' (100 PSF)	☐ F-0.03
	☐ 24' x 40' (150 PSF)	☐ F-0.04
	☐ 36' x 40' (50 PSF)	☐ F-0.11
	☐ 36' x 40' (50+15 PSF)	☐ F-0.12
	☐ 36' x 40' (100 PSF)	☐ F-0.13
	☐ 36' x 40' (150 PSF)	☐ F-0.14
	☐ 48' x 40' (50 PSF)	☐ F-0.21
	☐ 48' x 40' (50+15 PSF)	☐ F-0.22
	☐ 48' x 40' (100 PSF)	☐ F-0.23
	☐ 48' x 40' (150 PSF)	☐ F-0.24
☐ WOOD FOUNDATION DETAILS:		☐ F-0.50
☐ CONCRETE FOUNDATION PLAN - ABOVE GRADE	☐ WOOD FLOOR - (50, 50+15, 100, OR 150PSF)	☐ F-1.01
	☐ CONCRETE FLOOR - (50, 50+15, 100, OR 150PSF)	☐ F-1.11
☐ CONCRETE FOUNDATION DETAILS - ABOVE GRADE:		☐ F-1.50
☒ CONCRETE FOUNDATION PLAN - BELOW GRADE	☐ WOOD FLOOR - (50, 50+15, 100, OR 150PSF)	☐ F-2.01
	☒ CONCRETE FLOOR - (50, 50+15, 100, OR 150PSF)	☐ F-2.11
☒ CONCRETE FOUNDATION DETAILS - BELOW GRADE:		☐ F-2.50
☒ FOUNDATION DETAILS - CONCRETE		☐ F-2.51

GENERAL STRUCTURAL SHEETS

	SHEET NUMBER
STRUCTURAL SPECS:	S-0.1

FLOOR FRAMING PLANS

		SHEET NUMBER
FLOOR FRAMING:	☐ WOOD FLOOR	S-1.01
	☒ CONCRETE FLOOR	S-1.11
FLOOR FRAMING DETAILS:	☐ WOOD FLOOR	S-1.50
	☒ CONCRETE FLOOR	S-1.60

ROOF FRAMING PLANS

		SHEET NUMBER
ROOF FRAMING:	☐ 0.018", OR TPO - MONO SLOPE	S-2.01
	☐ 0.030" - MONO SLOPE	S-2.02
	☒ PARAPET - MONO SLOPE	S-2.03
	☐ 0.018", OR TPO - DUAL SLOPE	S-2.11
	☐ 0.030" - DUAL SLOPE	S-2.12
	☐ PARAPET - DUAL SLOPE	S-2.13

GENERAL ARCHITECTURAL SHEETS

	SHEET NUMBER
COVER SHEET:	A-0
T & I FORMS	A-0A
BUILDING OPTIONS SCHEDULE SHEET:	A-0.0
SYMBOLS, LEGEND, ABBREVIATION, ADA SIGNAGE SHEET:	A-0.1
SCHEDULE SHEET:	A-0.2
KEY PLAN: 24' TO 120' x 40'	A-0.3
ENERGY CALCS	A-0.5A-C
ENERGY CALCS	A-0.6A-F
DESIGN ENERGY VALUES BY ZONE AND CALGREEN SPECIFICATIONS	A-0.7

FLOOR PLANS

		SHEET NUMBER
FLOOR PLANS:	☒ FLOOR PLAN - 24' x 40'	A-1.01
	☐ FLOOR PLAN - 36' x 40'	A-1.02
	☐ FLOOR PLAN - 48' TO 120' x 40'	A-1.03
	☐ TOILET END MODULE - 12' x 40' (FLOOR PLAN & ELEVATIONS)	A-1.04
	☐ TOILET END MODULE - 12' x 40' (PLUMBING PLANS)	A-1.05
	☐ TOILET BUILDING - 24' x 40' (FLOOR PLAN & ELEVATIONS)	A-1.06
	☐ TOILET BUILDING - 24' x 40' (PLUMBING PLANS)	A-1.07

CEILING

			SHEET NUMBER
REFLECTED CEILING PLANS:	☒ 24' x 40'	☒ 4 LIGHT CONFIGURATION	A-2.01
	☐ 36' x 40'	☐ 4 LIGHT CONFIGURATION	A-2.02
	☐ 48' TO 120' x 40'	☐ 4 LIGHT CONFIGURATION	A-2.03
CEILING DETAILS:	☒ T-GRID		A-2.20
	☒ HARD LID		A-2.21

ROOF PLAN

			SHEET NUMBER
ROOF PLANS:	☒ 24' x 40'	☐ 0.018" ROOF - METAL DECK - MONO SLOPE	A-3.01
		☐ 0.018" ROOF - METAL DECK - DUAL SLOPE	A-3.01
		☐ 0.030" ROOF - METAL DECK - MONO SLOPE	A-3.11
		☐ 0.030" ROOF - METAL DECK - DUAL SLOPE	A-3.11
		☒ PARAPET ROOF - MONO SLOPE	A-3.31
		☐ PARAPET ROOF - DUAL SLOPE	A-3.31
		☐ TPO ROOF - MONO SLOPE	A-3.41
		☐ TPO ROOF - DUAL SLOPE	A-3.41
	☐ 36' x 40'	☐ 0.018" ROOF - METAL DECK - MONO SLOPE	A-3.02
		☐ 0.018" ROOF - METAL DECK - DUAL SLOPE	A-3.02
		☐ 0.030" ROOF - METAL DECK - MONO SLOPE	A-3.12
		☐ 0.030" ROOF - METAL DECK - DUAL SLOPE	A-3.12
		☐ PARAPET ROOF - MONO SLOPE	A-3.32
		☐ PARAPET ROOF - DUAL SLOPE	A-3.32
		☐ TPO ROOF - MONO SLOPE	A-3.42
		☐ TPO ROOF - DUAL SLOPE	A-3.42
	☐ 48' TO 120' x 40'	☐ 0.018" ROOF - METAL DECK - MONO SLOPE	A-3.03
		☐ 0.018" ROOF - METAL DECK - DUAL SLOPE	A-3.04
		☐ 0.030" ROOF - METAL DECK - MONO SLOPE	A-3.13
		☐ 0.030" ROOF - METAL DECK - DUAL SLOPE	A-3.14
		☐ PARAPET ROOF - MONO SLOPE	A-3.33
		☐ PARAPET ROOF - DUAL SLOPE	A-3.34
		☐ TPO ROOF - MONO SLOPE	A-3.43
		☐ TPO ROOF - DUAL SLOPE	A-3.44
ROOF DETAILS:	☐ 0.018" STANDING SEAM ROOF DECK		A-3.50
	☐ 0.030" STANDING SEAM ROOF DECK		A-3.60
	☐ 0.030" STANDING SEAM ROOF DECK		A-3.61
	☒ PARAPET		A-3.80
	☒ TPO		A-3.90

EXTERIOR ELEVATION

			SHEET NUMBER
EXTERIOR ELEVATIONS:	☒ 24' x 40'	☐ MONO SLOPE	A-4.01
		☐ DUAL SLOPE	A-4.01
		☒ PARAPET ROOF - MONO SLOPE	A-4.21
		☐ PARAPET ROOF - DUAL SLOPE	A-4.21

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

BUILDING OPTIONS SCHEDULE

REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 24075 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS
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SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

P.C. SHEET NUMBER
A-0.0

PHASE III

REFLECTED CEILING NOTES

1. CEILING SYSTEM GENERAL NOTES:

1.01 Ceiling system components shall comply with ASTM C635-07 and Section 5.1 of ASTM E580-10a.

1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635-08.

1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:

Manufacturer's Name ARMSTRONG.
Product Evaluation Report Type and Number ICC ESR-1308.
Manufacturer's Model Number - main runner 7301.
Manufacturer's catalog number - cross runner XL7328.

1.04 Seismic Wall Clip:

Manufacturer's Model BERC-2.

1.05 Ceiling panels shall not support any light fixtures, air terminals or devices.

1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide ¾" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide ¾" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip.

2. MATERIALS:

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641-09a. Wire shall be #12 gage (0.106" diameter) with soft temper and minimum tensile strength = 70 ksi.

2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653-11, or other equivalent sheet steel listed in Section A2.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members 2007, including supplement 2 dated 2010 (AISI S100-07/S2-10). Material 43 mil (18 gage) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gage) and heavier shall have a minimum yield strength of 50 ksi.

2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES:

3.01 Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc.

3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to: piping, ductwork, conduit and equipment.

3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.

3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.

3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire. (e.g. bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.)

4. FASTENERS AND WELDING:

4.01 Sheet metal screws shall comply with ASTM C1513-10, ASME B18.6.4-89 (R2005). Penetration of screws through joined material shall not be less than three exposed threads.

4.02 Expansion anchors shall be: NOT APPLICABLE

4.03 Power-Actuated Fasteners shall be: NOT APPLICABLE

4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member.

4.05 Power-actuated fasteners in concrete are not permitted for bracing wires.

4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post - installed anchor.

4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING: All field testing must be performed in the presence of the project inspector.

5.01 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power actuated fasteners in concrete shall be field tested for 200 lbs. in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1913A.7.

5.02 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1913A.7.

6. LIGHT FIXTURES:

6.01 All light fixtures shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the fixture. A minimum of two screws or approved fasteners are required at each light fixture, per ASTM E580, Section 5.3.1.

6.02 Surface-mounted light fixtures shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gage. Rotational spring catches do not comply. A #12 gage slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when light fixtures are eight (8) feet or longer or exceed 56 lb. Maximum spacing between supports shall not exceed eight (8) feet.

6.03 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.

6.04 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.

6.05 Light fixtures weighing greater than 10 lb. but less than or equal to 56 lbs. may be supported directly on the ceiling runners, but they shall have a minimum of two (2) #12 gage slack safety wires connected from the fixture housing at diagonal corners to the structure above.

Exception: All light fixtures greater than two by four feet weighing less than 56 lbs. shall have a #12 gage slack safety wire at each corner.

6.06 All Light fixtures weighing greater than 56 lb. shall be independently supported by not less than four (4) taut #12 gage hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four (4) taut #12 gage wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four (4) times the weight of the fixture.

7. SERVICES WITHIN THE CEILING:

7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.

7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 lb. shall have one (1) #12 gage slack safety wire attached from the terminal or service to the structure above.

7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 lb. but less than or equal to 56 lb. shall have two (2) #12 gage slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.

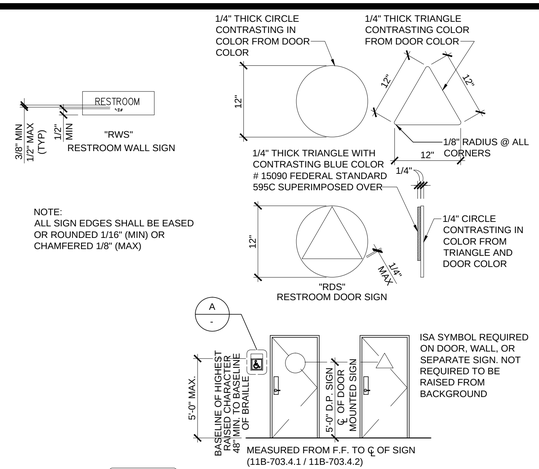
7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 lb. shall be supported directly from the structure above by not less than four (4) taut #12 gage hanger wires attached from the terminal or service to the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING:

8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 lbs. shall have a #12 gage slack safety wire anchored to the structure above. Devices weighing more than 20 lb. shall be supported independently from the structure above.

NOTE:
ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE AND CBC CLASS C FLAME-SPREAD 76-200; SMOKE-DEVELOPED 0-450.

NOTE:
PER CBC SECTION 718.2.1. FIRE BLOCKS MAY BE OF GYPSUM BOARD, CEMENT FIBER BOARD, BATTS OR MINERAL OR GLASS FIBER, OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIRE BLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES. (SECTION 718.2.1). FLAME SPREAD - 25 SMOKE DEVELOPMENT - 50 MAX
FIRE BLOCKING IS NOT REQUIRED WITHIN CONCEALED SPACES CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS



SIGNAGE TEMPLATES

COORDINATE WITH SIGNAGE NOTES (BELOW)

SIGNAGE NOTES

1. CHARACTER TYPE: CHARATERS ON SIGNA SHALL BE RAISED 1/32" (0.794 mm) MINIMUM ABOVE THEIR BACKGROUND AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. (SEE NOTE 5 BELOW) 11B-703.2.1 & 11B-703.2.2 &11B-703.23.

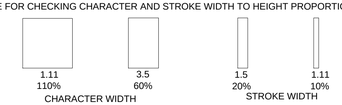
2. CHARACTER HEIGHT: CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (15.9 mm) MINIMUM AND 2 INCH (51 mm) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". 11B-703.2.5

3. FINISH AND CONTRAST: SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH SYMBOLS. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND. 11B-703.7.1.

4. PROPORTIONS: VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE "I" SHALL BE 15% MAX OF THE HEIGHT OF THE CHARACTER. 11B-703.2.4 + 11B-703.2.6

VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER ' I '. STROKE THICKNESS OF THE UPPER CASE ' I ' SHALL BE 10% MIN. AND 20% MAX OF THE HEIGHT OF THE CHARACTER.

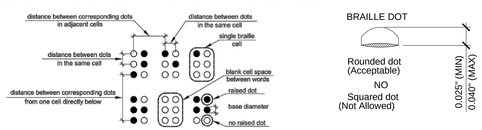
TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:



5. CHARACTER SPACING: CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX). WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX) AT THE BASE OF THE CROSS SECTIONS, AND 1/8" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX) AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" (MIN). 11B-703.2.7

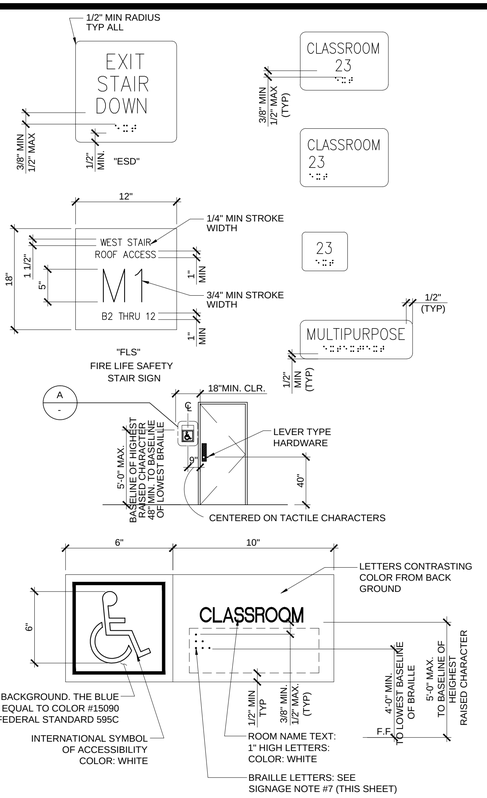
6. LINE SPACING: SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135% (MIN) AND 170% (MAX) OF THE RAISED CHARACTER HEIGHT. 11B-703.2.8

7. BRAILLE: BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4. DIMENSIONS AND CAPITALIZATION: BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS. 11B-703.3.1.



MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6mm)
Distance between two dots in the same cell[1] (Rhodovia-1)	0.100 (2.5 mm)
Distance between corresponding dots in adjacent cells[1] (Rhodovia-1)	0.300 (7.6 mm)
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below[1] (Rhodovia-1)	0.395 (10 mm) to 0.400 (10.2 mm)

1. Measured center to center.



NOTE:
SIGN MATERIAL TO BE 1/8" THK. E.S. PLASTIC W/1/32" RAISED GRAPHICS AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. CBC SECTION 11B-703. WHERE RAISED BOARDERS OCCUR, PROVIDE 1/2" MIN. CLEARANCE BETWEEN TOP OF BOARDER AND LOWEST LEVEL OF BRAILLE TEXT.

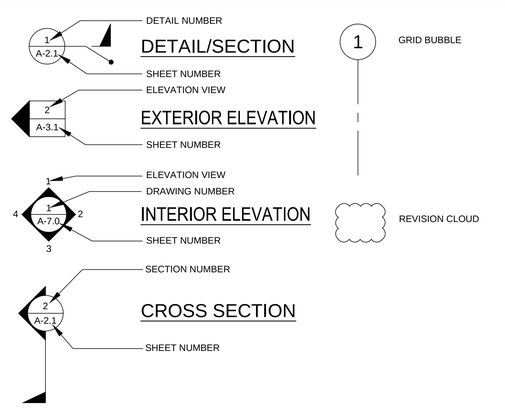
A ROOM IDENTIFCATION ROOM SIGNAGE (BY DISTRICT)

FOR SITE SPECIFIC LOCATIONS ARCHITECT TO PROVIDE BUILDING / ROOM IDENTIFICATION SIGNS. DETAILS AND LOCATIONS OF SIGNAGE TO BE INDICATED.

COORDINATE WITH SIGNAGE NOTES 1 THROUGH 7 ON THIS SHEET.

THIS DETAIL FOR REFERENCE ONLY

SYMBOLS LEGEND



ABBREVIATIONS

AB	ANCHOR BOLT	FIN	FINISH	℄ OR PL	PLATE
ABS	ABSOLUTE	FLR	FLOOR	PC	PRE-CHECKED
ABV	ABOVE	FN	FIELD NAILING	PLAS	PLASTER
ACC	ACCESS	FND	FOUNDATION	PLYWD	PLYWOOD
ADDL	ADDITIONAL	FOC	FACE OF CONCRETE	PNL	PANEL
ADJ	ADJACENT	FOS	FACE OF STUD	POC	POINT OF CONNECTION
AFF	ABOVE FINISH FLOOR	FTG	FOOTING	POT	PATH OF TRAVEL
AFG	ABOVE FINISH GRADE	FOF	FACE OF FINISH	PSF	POUNDS PER SQUARE FOOT
AGC	ABOVE GRADE CONCRETE			PSI	POUNDS PER SQUARE INCH
ALT	ALTERNATE	GA	GAUGE	PT	PRESSURE TREATED
AOR	ARCHITECT OF RECORD	GALV	GALVANIZE		
APPROX	APPROXIMATE	GC	GENERAL CONTRACTOR	RAG	RETURN AIR GRILLE
ARCH	ARCHITECTURAL / ARCHITECT	GR	GRADE	RD	ROOF DRAIN
		GYP	GYPSUM	REF	REFERENCE
BD	BOARD	GYP BD	GYPSUM BOARD	REINF	REINFORCE
BGC	BELOW GRADE CONCRETE			REQ'D	REQUIRED
BLDG	BUILDING	HB	HOSE BIBB	REV	REVISION
BLK	BLOCK	HD	HEAVY DUTY	RF	ROOF
BLKG	BLOCKING	HDR	HEADER	RM	ROOM
BM	BEAM	HDW	HARDWARE	RO	ROUGH OPENING
BOT	BOTTOM (OR BTM)	HF	HEM FIR	ROH	ROOF OVERHANG
BTWN	BETWEEN	HORIZ	HORIZONTAL		
BU	BUILT UP	HT	HEIGHT	SCHED	SCHEDULE
		HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	SEC	SECTION
CAB	CABINET			SHT	SHEET
CBC	CALIFORNIA BUILDING CODE			SHTG	SHEATHING
CI	CAST IRON			SIM	SIMILAR
CJ	CONTROL JOINT	INCL	INCLUDED	SPEC	SPECIFICATION
CJP	COMPLETE JOINT PENETRATION	INFO	INFORMATION	SQ	SQUARE
		INT	INTERIOR	SST	STAINLESS STEEL
℄	CENTER LINE			STD	STANDARD
CLG	CEILING	J-BOX	JUNCTION BOX	STIFF	STIFFENER
CO	CLEAN OUT	JST	JOIST	STL	STEEL
COL	COLUMN	JT	JOINT	STS	SELF-TAPPING SCREW
CONC	CONCRETE			STSMS	SELF-TAPPING SHEET METAL SCREW
CONN	CONNECTION	KO	KNOCK OUT		
CONST	CONSTRUCTION				
CONT	CONTINUOUS	LAB	LABORATORY	T&B	TOP AND BOTTOM
CPT	CARPET	LAM	LAMINATED	T&G	TONGUE AND GROOVE
CSK	COUNTERSINK	LAV	LAVATORY	TEL	TELEPHONE
CTR	CENTER	LB	POUNDS	THK	THICK
		LT	LIGHT	TOC	TOP OF COLUMN
DBL	DOUBLE	LT WT	LIGHT WEIGHT	TOS	TOP OF STEEL
DET	DETAIL	LVR	LOUVER	TS	TUBE STEEL
DF	DOUGLAS FIR			TV	TELEVISION
DIA OR Ø	DIAMETER	MAX	MAXIMUM	TYP	TYPICAL
DIAG	DIAGONAL	MB	MACHINE BOLT		
DIM	DIMENSION	MED	MEDIUM	UBC	UNIFORM BUILDING CODE
DSA	DIVISION OF THE STATE ARCHITECT	MFR	MANUFACTURER	UON	UNLESS OTHERWISE NOTED
		MIN	MINIMUM		
DWG	DRAWING	MISC	MISCELLANEOUS	UR	URINAL
		MOD	MODULE		
(E)	EXISTING	MTL	METAL	VERT	VERTICAL
EA	EACH	(N)	NEW	VCT	VINYL COMPOSITION TILE
EJ	EXPANSION JOINT	N	NORTH		
ELEV	ELEVATION	NIC	NOT IN CONTRACT (NOT IN SILVER CREEK'S SCOPE OF WORK	W/	WITH
END	END NAIL			WC	WATER CLOSET
EQ	EQUAL			WCO	WALL CLEAN OUT
EQUIP	EQUIPMENT	NO	NUMBER	WD	WOOD
EW	EACH WAY	NTS	NOT TO SCALE	WH	WATER HEATER
EXT	EXTERIOR			WIC	WOODWORK INSTITUTE OF CALIFORNIA
		OC	ON CENTER		
FA	FIRE ALARM	OD	OUTSIDE DIAMETER	WND	WINDOW (OR WDW)
FCO	FLOOR CLEAN OUT	OH	OPPOSITE HAND	W/O	WITHOUT
FF	FINISH FLOOR	OPNG	OPENING	WP	WATER PROOF
FG	FINISH GRADE	OPP	OPPOSITE		

SPECIFICATIONS

DIVISION 5 - METALS

- ALL WELDED JOINTS AND SURFACES SHALL BE GROUNDED SMOOTH, NO SHARP OR ABRASIVES CORNERS, EDGES OR SURFACES. WALL SURFACES ADJACENT TO HANDRAILS SHALL BE SMOOTH,
- ALL HANDRAILS SHALL BE ROUND OR SHALL HAVE RADIUSED EDGES (r = 1/8" MIN)

DIVISION 6 - WOOD AND PLASTICS

- ALL CABINET AND DRAWERS WILL HAVE U-SHAPED WIRE PULLS

DIVISION 9 - FINISHES

- CEILING INSTALLATION SHALL BE PER THE NOTES PROVIDED ON THIS SHEET.

DIVISION 10 - SPECIALITIES

- ALL TOILET ACCESSORIES SHALL BE INSTALLED AT THE HEIGHT AND CLEARANCES SHOWN ON SHEET P-1.01

DIVISION 22 - PLUMBING

- FAUCETS SHALL BE LEVER OPERATED (4" MIN BLADE) OR SHALL BE PUSH TYPE OR AUTOMATIC ELECTRONICALLY CONTROLLED. CONTROLS TO BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE.
- FORCE TO ACTIVATE CONTROLS SHALL NOT BE GREATER THAN 5 LBS
- FORCE TO REMAIN OPEN FOR A MINIMUM OF 10 SECONDS WHEN SELF CLOSING VALVES ARE USED
- PIPE COVERS SHALL BE PROVIDED FOR WATER LINES AND DRAIN PIPES UNDER ACCESSIBLE SINKS AND LAVATORIES
- ACCESSIBLE SINKS SHALL NOT BE DEEPER THAN 6 1/2"

ASSISTIVE LISTENING SYSTEM

ASSISTIVE LISTENING SYSTEM SIGN

NOTES:
1. ASSISTIVE-LISTENING SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTIONS 11B-216.10 AND 11B-219 AND SHALL COMPLY WITH CBC SECTION 11B-706.
2. THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4% OF THE TOTAL NUMBER OF SEATS, BUT IN NO CASE LESS THAN TWO. 25% (MIN) OF RECEIVERS PROVIDED, BUT NO FEWER THAN TWO, SHALL BE HEARING AID COMPATIBLE IN ACCORDANCE WITH CBC SECTION 11B-706.3
3. SIGNAGE SHALL BE POSTED IN A PROMINENT PLACE INDICATING THE AVAILABILITY OF ASSISTIVE LISTENING DEVICES.
4. OWNER/SCHOOL DISTRICT SHALL PROVIDE A PERMANENT OR PORTABLE ASSISTIVE LISTENING SYSTEM.

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

SYMBOLS LEGEND, ABBREVIATIONS & ADA SIGNAGE

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

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SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER
A-0.1

PHASE III

WINDOW SCHEDULE

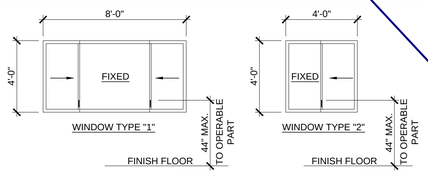
WINDOW NO.	QTY	TYPE	WIDTH	HEIGHT	FUNCTION	FRAME MATERIAL	GLASS MATERIAL	WALL THICKNESS	NOTES
A		1	8'-0"	4'-0"	XOX	ANOD	DP		
B		2	4'-0"	4'-0"	XO	ANOD	DP		

WINDOW FINISH

ANOD: CLEAR ANODIZED ALUMINUM FRAME
BRONZ: BRONZE ANODIZED ALUMINUM FRAME
PAINT: PAINTED FRAME
WF: 16GA WELDED FRAME
FRW: FIRE RATED WINDOW
FRAME: MIN 0.048" THICK WELDED FRAME
FRG: FIRE RATED GLAZING: 1/4" WIRED GLASS. LABELED TO MEET THE REQUIREMENTS FOR A 3/4 HOUR FIRE WINDOW ASSEMBLY PER CBC SECTION/TABLE 715.5

DP: 3/16" MINIMUM DUAL PANE TEMPERED GLASS OF SOLAR GRAY - 3/16" ENERGYSHIELD, ALL OPERABLE SASH SHALL HAVE SCREENS. (U-FACTOR = .510 MAX, VT = 0.500 MIN., SHGC = .360 MAX, STC = 36 MIN.)

WINDOW TYPE



NOTE:
1. OPERABLE WINDOW CONTROLS SHALL COMPLY WITH CBC 11B.309.4 AND SHALL NOT REQUIRE TIGHT GRASPING,PINCHING OR TWISTING OF THE WRIST
2. WINDOW CONTROLS SHALL NOT REQUIRE MORE THAN 5LBS OF FORCE TO OPEREATE
3. THE REQUIRED FORCE TO PUSH/PULL THE WINDOW PANEL SHALL NOT EXCEED 5LBS

DOOR SCHEDULE

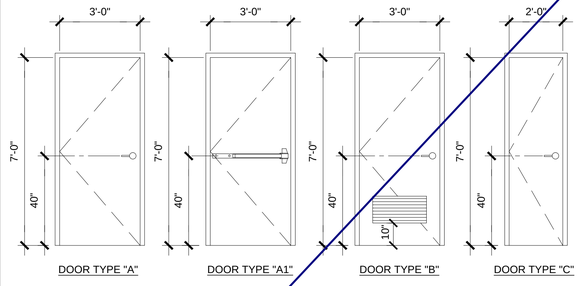
DOOR NO	WIDTH	HEIGHT	DOOR TYPE	QTY	DOOR MAT/FIN	FRAME MAT/FIN	HARDWARE SET	WALL THICKNESS	NOTES*
1	3'-0"	7'-0"	A		HM	KD	HW - 1	5 1/4"	
1P	3'-0"	7'-0"	A1		HM	KD	HW - 2	5 1/4"	
2	3'-0"	7'-0"	A		SCL	KD	HW - 3	5 1/2"	
3	3'-0"	7'-0"	B		HM	KD	HW - 4	4 7/8"	
4	3'-0"	7'-0"	B		HM	KD	HW - 5	4 7/8"	NO CLOSER REQ'D.
5	2'-0"	7'-0"	C		HM	KD	HW - 6	4 1/8"	

DOOR MATERIAL AND FINISH ABBREVIATIONS

HM: 14GA HOLLOW METAL
WF: 16GA WELDED FRAME

*EXTERIOR DOORS TO BE UNINSULATED SINGLE LAYER DOORS W/ U-FACTOR OF 0.500 MAX

DOOR TYPES & NOTES



1. DOOR HANDLE FOR LOCKSETS AND PANIC HARDWARE TO BE CENTED AT 40" AFF. HARDWARE TO BE OPENED FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. LEVERS TO RETURN TO WITHIN 1/2" OF DOOR
2. ALL DOORS SHALL BE 1 3/4" THICK U.N.O.
3. CLOSER SHALL BE SET FOR MAXIMUM OPENING PRESSURE OF 5 LBS AT EXTERIOR AND INTERIOR DOORS.
4. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER.
5. ALL HARDWARE SHALL COMPLY WITH SILVER CREEK'S SPECS ON THIS SHEET AND CBC SECTIONS 11B-206.5,11B-404.1 & 1010.
6. DOOR CLOSER SHALL BE ADJUSTED TO SO THAT FROM AN OPEN POSITION OF 90°, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO A POINT 12° FROM THE LATCH, MEASURED TO THE LANDING SIDE OF THE DOOR
7. PANIC AND FIRE EXIT HARDWARE. WHERE THIS TYPE HARDWARE IS INSTALLED, IT SHALL COMPLY WITH THE FOLLOWING
   -THE ACTUATING PORTION OF THE RELEASING DEVICE SHAL EXTEND AT LEASE ONE-HALF OF THE DOOR LEAF WIDTH.
   -THE MAXIMUM FORCE TO ACTIVATE ANY OPERABLE PART SHALL NOT EXCEED 5 LBS PER THE 2016 CBC, PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1010.1.10
8. ALL HAND ACTIVATED HARDWARE SHALL BE LEVER TYPE, PANIC BARS, PUSH/PULL TYPE OR 'U' SHAPED HANDLES
9. ALL HAND ACTIVATED HARDWARE SHALL BE EASY TO OPERATE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST TO OPERATE.
10. FLOOR STOP SHALL BE LOCATED 4" MAX FROM FACE OF WALL.

FINISH SCHEDULE

ROOM NAME	FLOORING		WALL FINISH				CEILING		NOTES
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT	
CLASSROOM 101	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"	
CLASSROOM 102	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"	
TOILET 103	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-0"	
GIRLS 104	SV	SC	FRP	FRP	FRP	FRP	GBP	8'-0"	
BOYS 105	SV	SC	FRP	FRP	FRP	FRP	GBP	8'-0"	
STAFF 106	SV	SC	FRP	FRP	FRP	FRP	GBP	8'-0"	
STAFF 107	SV	SC	FRP	FRP	FRP	FRP	GBP	8'-0"	
PLUMBING CHASE	---	---	---	---	---	---	---	---	

FLOOR, WALL, CEILING MATERIALS

FLOORING
CARP: CARPET PER STATE OF CALIFORNIA SPECIFICATIONS COMPLYING WITH GROUP 1; TYPE "A" OR TYPE "B"; CLASS 2; DENSITY 4600; DIRECT GLUE DOWN
SV: SHEET VINYL FLOORING
VCT: VINYL COMPOSITION TILE

BASE
4" TS: 4" TOP SET BASE
6" TS: 6" TOP SET BASE
SC: 6" SELF-COVE BASE

WALLS
TACK: 1/2" VINYL TACKBOARD CLASS 1 OVER ½" GYPSUM BOARD BACKING
FRP: 1/8" FIBER REINFORCED PANEL OVER ½" WATER RESISTANT GYPSUM BOARD
GYP: 1/2" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH
PLY: 1/2" PLYWOOD FINISH
NF: NO FINISH

CEILING
CP: ACOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATION NOTES ON REFLECTED CEILING PLAN)
HC: 5/8" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH (HARD LID CEILING)
GBP: 1/2" GYPSUM BOARD WASHABLE PANELS (PAINTED)

INSULATION SPECIFICATIONS

MOISTURE PROTECTION INSULATION:

DESCRIPTION OF WORK: THE FURNISHING AND INSTALLING OF ALL INSULATION FOR ALL CEILING, FLOOR AREAS, PIPES AND EXTERIOR WALLS. (CLASS A = 0-25 FLAME SPREAD;) SMOKE DEVELOPMENT DENSITY LESS THAN 450.

MATERIAL: INSULATING MATERIAL FOR WALLS, CEILINGS, AND FLOORS SHALL BE FIBERGLASS BATTS (UNFACED) AND SHALL COMPLY WITH CBC 720.1, 720.2, 720.3, 720.5 AND 720.7. INSULATION SHALL BE AS MANUFACTURED BY OWENS-CORNING FIBERGLASS CORPORATION, JOHNS-MANVILLE, CERTAINTIES, OR EQUAL.

INSULATION VALUES
SEE SHEETS A-0.7 FOR MINIMUM REQUIRED INSULATION VALUES FOR SPECIFIC BUILDING SIZE AND CONFIGURATION.

EXTERIOR WALL INSULATION (MIN.)
☒ R-13 (2x4)
☒ R-19 (2x6)
☐ R-30 (2x8)

INTERIOR WALL INSULATION (MIN.)
R-13

FLOOR INSULATION (MIN.)
R-19

ROOF INSULATION (MIN.)
R-30

STEEL STUD EXTERIOR WALL
☐ R-13 (2X4) W/ R-4 CONT. RIGID INSULATION

FINISH NOTES

1. ALL FINISHES SHALL COMPLY WITH CBC, CFC AND TITLE 19 CCR.
2. PREPARATION FOR SUB-FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. PLYWOOD SUB-FLOOR IS 2.4.1. PLYWOOD. OUTER PLYWOOD IS PLUGGED AND TOUCH SANDED. ANY DEFORMITIES DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR. THE JOINT AT THE MODLINE SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.
3. RESILIENT FLOORING DEMONSTRATING A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM D2047, WILL BE ACCEPTED AS MEETING THE INTENT OF SLIP RESISTANCE.
4. CARPET SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT, OR LEVEL CUT / UNCUT PILE TEXTURE AND MAXIMUM PILE HEIGHT OF 1/2" PER THE 2016 CBC. CARPET EDGED SHALL COMPLY WITH THE 2016 CBC

DOOR HARDWARE

CLASSROOM - EXTERIOR DOOR HW-1

LOCKSET	SCHLAGE ND75PDRHO626 (cylindrical)	Finish 26D or equal
BUTTS	HAGER BB1191 4 1/2" x 4 1/2" NRP	Finish 26D or equal
CLOSER	NORTON 8501 BFDA	Finish 689 or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum or equal
THRESHOLD	HAGER 413SA 36	Finish Alum or equal
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum or equal

DOOR W/ PANIC HARDWARE - EXTERIOR DOOR HW-2

EXIT DEVICE	VON DUPRIN AX-99L-PA-2 w/SCHLAGE rim cylinder	Finish Alum or equal
BUTTS	HAGER BB1191 4 1/2" x 4 1/2" NRP	Finish 26D or equal
CLOSER	NORTON 8501 BFDA	Finish 689 or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum or equal
THRESHOLD	HAGER 413SA 36	Finish Alum or equal
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum or equal

EMERGENCY EXIT AND PANIC HARDWARE IS TO COMPLY WITH SFM STANDARD 12-10-3, SECTION 12-10-302:
a) THE CROSS BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE.
d) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.

STAFF RESTROOM / SINGLE-OCCUPANCY - INTERIOR DOOR HW-3

LOCKSET	SCHLAGE ND40SRHO626 (cylindrical)	Finish 26D or equal
BUTTS	HAGER 1279 4 1/2" x 4 1/2"	Finish 26D or equal

BOYS & GIRLS RESTROOM - EXTERIOR DOOR HW-4

LOCKSET	SCHLAGE ND70PDRHO626 (cylindrical)	Finish 26D or equal
BUTTS	HAGER BB1191 4 1/2" x 4 1/2" NRP	Finish 26D or equal
CLOSER	NORTON 8501 BFDA (OPTIONAL)	Finish 689 or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum or equal
THRESHOLD	HAGER 413SA 36	Finish Alum or equal
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum or equal
LOUVER	ANEMO 24 x 12	Finish Bronze or equal

STAFF RESTROOM - EXTERIOR DOOR HW-5

LOCKSET	SCHLAGE ND85PDRHO626 (cylindrical)	Finish 26D or equal
BUTTS	HAGER BB1191 4 1/2" x 4 1/2" NRP	Finish 26D or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum or equal
THRESHOLD	HAGER 413SA 36	Finish Alum or equal
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum or equal
LOUVER	ANEMO 24 x 12	Finish Bronze or equal

PLUMBING CHASE DOOR - INTERIOR DOOR HW-6

LOCKSET	SCHLAGE ND70PDRHO626 (cylindrical)	Finish 26D or equal
BUTTS	HAGER BB1191 4 ½" x 4 ½" NRP	Finish 26D or equal

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREEK

SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

SCHEDULES

REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 24175 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS
1
2
3
4
5
6
7
8

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

P.C. SHEET NUMBER
A-0.2

PHASE III

Project Name:	04-116668 - 24x40 - WD FLR - WALL HVAC - CZ 14	NRCC-PRF-01-E	Page 18 of 19
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F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-02-E)* **§ RA4**

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-04a	MCH-04b	MCH-04c	MCH-04d	MCH-04e	MCH-04f	MCH-04g	MCH-04h	MCH-04i	MCH-04j	MCH-04k	MCH-04l	MCH-04m	Confirmed	
Equipment Requiring Testing or Verification	# of units	Economizer	Supply Fan Variable Flow	Air Side Seals	Fan Efficiency Controls	Hydronic Pump Variable Flow	Supply Water Temp. Reset Controls	Hydronic Variable Flow Control Valves	Water Cooled Centrifugal Chiller	Air Cooled Chiller Efficiency	Boiler Efficiency	Condensing Boiler Efficiency	Gas Furnace Thermal Efficiency	Condensing Furnace Efficiency	Pass	Fail
NonResBase SHWSystem	1	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
AirSystem 1	1	X	X	--	--	--	--	--	--	--	--	--	--	--	☐	☐

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) **§ 140.6**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Location In Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Control Credit Calculation			≠ If Acceptance Test Required	Confirmed	
				Watts of Controlled Lighting	Power Adjustment Factor	Control Credit Watts		Pass	Fail
Space 1	Classrooms, Lecture, Training, Vocational Areas	- none specified -	1		0.00	0		☐	☐

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**Authority-entries for an Occupancy Type may be listed in the table as these have been aggregated for Building Stories that have the same floor multiplier.*

B. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)* **§ 130.0**

Luminaire Schedule (Includes all permanent installed lighting in conditioned space, and portable lighting over 0.5 w/ft² in offices)

Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts (Conditioned)				Confirmed	
		Watts per luminaire	How Wattage Is Determined CEC Default from NA8	According to §130.0(c)	Total Number Luminaires	Installed Watts	Pass	Fail
SCI - 2x4 LED		60	No	Yes	8	480	☐	☐

** If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES **§ 140.9**

This Section Does Not Apply

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS **§ 140.9**

This Section Does Not Apply

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS **§ 140.9**

This Section Does Not Apply

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS **§ 140.9**

This Section Does Not Apply

T. UNMET LOAD HOURS

This Section Does Not Apply

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWh)	Proposed Design Site (kWh)	Margin (kWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	2.4	--	15.0	--	--
Space Cooling	3.1	3.6	-0.5	--	--	--
Indoor Fans	4.7	3.0	1.7	--	--	--

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –

Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance

(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

See Tables G, and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed	
		Pass	Fail
Plumbing	☒ NRCI-PLB-01-E – For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-23-H- HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☒ NRCI-LTI-01-E - For all buildings	☒	☐
	☒ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☒ NRCA-LTI-05-E - Lighting Credit Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☒ NRCA-LTI-07-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☒ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☒ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☒ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☒ NLCI-02-E – Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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Compliance Scope:	NewComplete	Input File Name:	24x40 - WD FLR - WALL HVAC.cbd16

A. PROJECT GENERAL INFORMATION

1.	Project Location (city)	CZ 14 - WORST CASE	8.	Standards Version	Compliance2016
2.	CA Zip Code		9.	Compliance Software (version)	CBECC-Com 2016.2.1 (868)
3.	Climate Zone	14	10.	Weather File	FALSOMLC_723830_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	960 ft²	11.	Building Orientation (deg)	0/ 210 deg
5.	Total Unconditioned Floor Area	0 ft²	12.	Permitted Scope of Work	NewComplete
6.	Total # of Stories (Habitable Above Grade)	1	13.	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14.	Gas Type	NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS [Annual TDV Energy Use, kBtu/ft ²-yr] **§ 140.1**

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	26.12	43.13	-17.01	-65.1%
Space Cooling	130.42	160.39	-29.97	-23.0%
Indoor Fans	112.41	72.22	40.19	35.8%
Heat Rejection	--	--	--	--
Pumps & Misc.	--	--	--	--
Domestic Hot Water	41.79	41.79	--	0.0%
Indoor Lighting	58.51	24.38	34.13	58.3%
COMPLIANCE TOTAL	**369.25**	**341.93**	**27.34**	**7.4%**
Receptacle	64.30	64.30	0.0	0.0%
Process	--	--	--	--
Other Liq	--	--	--	--
TOTAL	**433.55**	**406.23**	**27.3**	**6.3%**

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Compliance Scope:	NewComplete	Input File Name:	24x40 - WD FLR - WALL HVAC.cbd16

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) **§ 140.6**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Location In Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Control Credit Calculation			≠ If Acceptance Test Required	Confirmed	
				Watts of Controlled Lighting	Power Adjustment Factor	Control Credit Watts		Pass	Fail
Space 1	Classrooms, Lecture, Training, Vocational Areas	- none specified -	1		0.00	0		☐	☐

B. INDOOR CONDITIONED LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) **§ 130.1**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)

Location In Building	Type/Description of Lighting Control (i.e., occupancy sensor, dimming, automatic daylighting control, etc.)	# of Units	Standards Compliance (√ all that apply or "E" if exempt)					Is Acceptance Test Required?	Confirmed	
			§130.1(a)	§130.1(b)	§130.1(c)	§130.1(d)	§130.1(e)		Pass	Fail
Space 1	ROOM LIGHTING CONTROL SYSTEM	1	√	√	√	√	E	Yes	☐	☐

§130.1(a) = Manual area controls; §130.1(b) = Multi-Level; §130.1(c) = Auto Shut Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) **§ 140.6**

General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) **§ 140.6-D**

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) **§ 140.6(c) 3H**

Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed	
							Pass	Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Note: Tailored Method for special function Areas is not currently implemented

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U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWh)	Proposed Design Site (kWh)	Margin (kWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	27.9	27.9	0.0
Indoor Lighting	2.4	1.0	1.4	--	--	--
COMPLIANCE TOTAL	**10.2**	**10.0**	**0.2**	**42.9**	**27.9**	**15.0**
Receptacle	2.5	2.5	0.0	--	--	--
Process	--	--	--	--	--	--
Other Liq	--	--	--	--	--	--
TOTAL	**12.7**	**12.5**	**0.2**	**42.9**	**27.9**	**15.0**

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –

Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance

(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

See Tables G, and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed	
		Pass	Fail
Covered Process	☐ NRCI-PRC-01-E Refrigerated Warehouse	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

1.	Total Conditioned Floor Area	960 ft²	5.	Number of Floors Above Grade	1
2.	Total Unconditioned Floor Area	0 ft²	6.	Number of Floors Below Grade	0
3.	Addition Conditioned Floor Area	0 ft²			
4.	Addition Unconditioned Floor Area	0 ft²			

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Confirmed	
				Pass	Fail
North Wall	352 ft²	32 ft²	12.7%	☐	☐
East Wall	440 ft²	0 ft²	00.0%	☐	☐
South Wall	276 ft²	32 ft²	11.6%	☐	☐
West Wall	440 ft²	0 ft²	00.0%	☐	☐
Total	**1,408 ft²**	**64 ft²**	**04.5%**	☐	☐
Roof	960 ft²	0 ft²	00.0%	☐	☐

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C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

		Compliance Margin By Energy Component (from Table 8 column 4)
1st	Indoor Fans: Check envelope and mechanical	Indoor Fans
2nd	Indoor Lighting: Check lighting	Indoor Lighting
3rd	Heat Rejection: Check envelope and mechanical	Space Heating
4th	Pumps & Misc.: Check mechanical	Pumps & Misc.
5th	Domestic Hot Water: Check mechanical	Domestic Hot Water
6th	Space Heating: Check envelope and mechanical	Space Heating
7th	Space Cooling: Check envelope and mechanical	Space Cooling

Penalty — Energy Credit

D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided

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F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

Rectangular Spaces							Confirmed	
Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR		Pass	Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Non-Rectangular Spaces

This Section Does Not Apply

Note: All applicable spaces are listed under the Non-Rectangular Spaces table

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)

1. Wall Display	2. Combined Floor Display and Task Lighting	3. Combined Ornamental and Special Effects Lighting	4. Very Valuable Merchandise	Allowed Watts	Confirmed	
					Pass	Fail
0	0	0	0	0	☐	☐

5. Wall Display

This Section Does Not Apply

6. Floor Display and Task Lighting

This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting

This Section Does Not Apply

8. Very Valuable Merchandise

This Section Does Not Apply

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT **§ 10-103**

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: SILVER CREEK	Signature:
Company: SILVER CREEK	
Address:	Signature Date: 6.25.18
City/State/Zip:	CEA Identification (if applicable):
Phone: 951-943-5393	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name: JOHN STARLIN	Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed: 6.25.18
City/State/Zip: PERRIS CA 92571	Declaration Statement Type: 1
Phone: 951-943-5393	Title: Engineer License #: 2475
Responsible Lighting Designer Name: JOHN STARLIN	Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed: 6.25.18
City/State/Zip: PERRIS CA 92571	Declaration Statement Type: 1
Phone: 951-943-5393	Title: Engineer License #: 2475
Responsible Mechanical Designer Name: JOHN STARLIN	Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed: 6.25.18
City/State/Zip: PERRIS CA 92571	Declaration Statement Type: 1
Phone: 951-943-5393	Title: Engineer License #: 2475

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I. FENESTRATION ASSEMBLY SUMMARY **§ 110.6** Confirmed

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method*	4. Assembly Method	5. Area ft²	6. Overall U-Factor	7. Overall SHGC	8. Overall VT	9. Exempt (Y/N)	Confirmed	
									Pass	Fail
SCI - NFC 8200 - SLIDER - S960 / CLR	VerticalFenestration OperableWindow N/A	NFRC Rated	Manufactured	64	0.51	0.36	0.50	N	☐	☐

** Newly-installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for fun glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*

*** Status: N - New, A – Altered, E – Existing*

Taking compliance credit for fenestration shading devices? (If "Yes", see NRCC-PRF-ENV-DETAILS for more information) No

K. OPAQUE SURFACE ASSEMBLY SUMMARY **§ 120.7/ § 140.3** Confirmed

1. Surface Name	2. Surface Type	3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. U-Factor / F-Factor / C-Factor	8. Exempt (Y/N)	Confirmed	
								Pass	Fail
2x4 T111 WALL	ExteriorWall	1408	Wood	13	NA	U-Factor: 0.065	N	☐	☐
SCI PLYWD FLOOR	ExteriorFloor	960	Metal	19	NA	U-Factor: 0.066	N	☐	☐
SCI MTL ROOF	Roof	960	Metal	30	NA	U-Factor: 0.055	N	☐	☐

Status: N - New, A – Altered, E – Existing

L. ROOFING PRODUCT SUMMARY **§ 140.3** Confirmed

1. Product Type	2. Product Density (lb/ft³)	3. Aged Solar Reflectance	4. Thermal Emittance	5. SRI	6. Cool Roof Credit	7. Roofing Product Description	Confirmed	
							Pass	Fail
SCI MTL ROOF	5.55781	0.08	0.75	NA	No	NA	☐	☐

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA" is not in project

For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path	Compliance Forms *(required for submittal)*	Location of Mandatory Notes on Plans
Envelope	☒ Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☒ Prescriptive	NRCI-ENV-01-E / 02 / 03 / 04 / 05 / 06-E	
	☐ NA		
Mechanical	☐ Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☒ Prescriptive	NRCI-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐ NA		
Domestic Hot Water	☐ Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☒ Prescriptive	NRCI-PLB-01-E	
	☐ NA		
Lighting (Indoor Conditioned)	☒ Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☐ Prescriptive	NRCI-LTI-01 / 02 / 03 / 04 / 05-E	
	☐ NA		
Covered Process: Commercial Kitchens	☐ Performance	52 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 03-E	
	☒ NA		
Covered Process: Computer Rooms	☐ Performance	53 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 04-E	
	☒ NA		
Covered Process: Laboratory Exhaust	☐ Performance	54 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 09-E	
	☒ NA		

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NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS

1. Surface Name	2. Surface Type	3. Description of Assembly Layers	4. Notes	Confirmed	
				Pass	Fail
2x4 T111 WALL	ExteriorWall	Wood siding - 1/2 in. Vapor Permeable Felt - 1/16 in. Wood framed wall, Stick, OC, 3.5in., R-13 Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.		☐	☐
SCI PLYWD FLOOR	ExteriorFloor	Air - Cavity - Wall Roof Ceiling - 4 in. or more Metal framed floor, 24in. OC, 7.25in., R-19 Plywood - 1 in. Carpet - 3/4 in.		☐	☐
SCI MTL ROOF	Roof	Metal Standing Seam - 1/16 in. Building Paper - 1/32 in. Plywood - 3/4 in. Metal framed roof, 24in. OC, 9.25in., R-30 Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.		☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

This Section Does Not Apply

C. OPAQUE DOOR SUMMARY

1. Opaque Door Assembly Name / Tag or I.D.	2. Door Type	3. Certification Method	4. Operation	5. Area	6. Overall U-factor	7. Status*	Confirmed	
							Pass	Fail
SCI - STD HM DOOR	MetalUninsulatedSingleLayerDoor	DefaultPerformance	Swinging	21	1.450	N	☐	☐

** Status: N - New, A – Altered, E – Existing*

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M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) **§ 110.1 / § 110.2**

Dry System Equipment * (Fan & Economizer info included below in Table N) Confirmed

1. Equip Name	2. Supply Fan	3. System Type (Simple * or Complex **)	4. Qty	5. Total Heating Output (kBtu/h)	6. Supp Heat Source (Y/N)	7. Total Cooling Output (kBtu/h)	8. Efficiency		9. Acceptance Testing Required? (Y/N)	10. Exempt	Confirmed	
							Cooling	Heating			Pass	Fail
AirSystem 1	SPVHP (Packaged1Phase)	Simple	1	56	Yes	17	SEER 13.0	HSPF:7.7	Yes	N	☐	☐

** Dry System Equipment includes furnaces, air handling units, heat p

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F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-02-E)* **§ RA4**

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-04A	MCH-04B	MCH-04C	MCH-04D	MCH-04E	MCH-04F	MCH-04G	MCH-04H	MCH-05A	MCH-13A	MCH-13B	MCH-14A	MCH-14B	MCH-14C	MCH-14D	MCH-14E	MCH-17A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Supply Fans Variable Flow	Supply Fans Multiple Speed	Air Side Ducts	Economizer Controls	DCV	Supply Air Temp	Supply Water Temp	Hydronic Variable Flow	Hydronic Constant Flow	Packaged DX Units	Heat Rejection Equipment	Boiler Operation	Chiller Operation	Condenser Water Temperature	ERVS	Pass	Fail
Non/Reclassed DHW/pumps	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐
AirSystem 1	1	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	☐	☐

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) **§ 140.6**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Location In Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Control Credit Calculation: Watts of Controlled Lighting	Control Credit Calculation: Power Adjustment Factor	Control Credit Calculation: Control Credit Watts	≠ if Acceptance Test Required	Confirmed: Pass	Confirmed: Fail
Space 1	Classrooms, Lecture, Training, Vocational Areas	- none specified -	1		0.00	0		☐	☐

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**Authority-entries for an Occupancy Type may be listed in the table as these have been aggregated for Building Stories that have the same floor multiplier.*

B. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)* **§ 130.0**

Luminaire Schedule (Includes all permanent installed lighting in conditioned space, and portable lighting over 0.5 w/ft² in offices)

Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts (Conditioned): Watts per luminaire	How Wattage Is Determined: CEC Default from NA8	How Wattage Is Determined: According to §130.0(c)	Total Number Luminaires	Installed Watts	Confirmed: Pass	Confirmed: Fail
SCI - 2x4 LED		60	No	Yes	8	480	☐	☐

** If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES **§ 140.9**

This Section Does Not Apply

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS **§ 140.9**

This Section Does Not Apply

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS **§ 140.9**

This Section Does Not Apply

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS **§ 140.9**

This Section Does Not Apply

T. UNMET LOAD HOURS

This Section Does Not Apply

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWh/y)	Proposed Design Site (kWh/y)	Margin (kWh/y)	Standard Design Site (MBtu/y)	Proposed Design Site (MBtu/y)	Margin (MBtu/y)
Space Heating	5.7	--	3.8	--	--	--
Space Cooling	5.8	6.8	-1.0	--	--	--
Indoor Fans	4.5	2.9	1.6	--	--	--

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G, and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed: Pass	Confirmed: Fail
Plumbing	☒ NRCI-PLB-01-E – For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-23-H- HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☒ NRCI-LTI-01-E - For all buildings	☐	☐
	☒ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Credit Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☒ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☒ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☒ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☒ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☒ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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A. PROJECT GENERAL INFORMATION

1. Project Location (city)	CZ 15 - WORST CASE	8. Standards Version	Compliance2016
2. CA Zip Code		9. Compliance Software (version)	CBECC-Com 2016.2.1 (868)
3. Climate Zone	15	10. Weather File	INLAKESPRINGS-INTL_723868_CZ2010.epw
4. Total conditioned Floor Area in Scope	960 ft²	11. Building Orientation (deg)	(N) 345 deg
5. Total Unconditioned Floor Area	0 ft²	12. Permitted Scope of Work	NewComplete
6. Total # of Stories (Habitable Above Grade)	1	13. Building Type(s)	Nonresidential
7. Total # of dwelling units	0	14. Type Spec Type	NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS [Annual TDV Energy Use, kBtu/ft ²-yr] **§ 140.1**

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	6.74	12.24	-5.50	-81.6%
Space Cooling	207.75	248.14	-40.39	-19.4%
Indoor Fans	110.85	70.48	40.17	36.3%
Heat Rejection	--	--	--	--
Pumps & Misc.	--	--	--	--
Domestic Hot Water	41.68	41.68	--	0.0%
Indoor Lighting	58.59	24.41	34.18	58.3%
COMPLIANCE TOTAL	**425.41**	**396.95**	**28.46**	**6.7%**
Receptacle	64.30	64.30	0.0	0.0%
Process	--	--	--	--
Other Lig	--	--	--	--
TOTAL	**489.71**	**461.25**	**28.5**	**5.8%**

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A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) **§ 140.6**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Location In Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Control Credit Calculation: Watts of Controlled Lighting	Control Credit Calculation: Power Adjustment Factor	Control Credit Calculation: Control Credit Watts	≠ if Acceptance Test Required	Confirmed: Pass	Confirmed: Fail
Space 1	Classrooms, Lecture, Training, Vocational Areas	- none specified -	1		0.00	0		☐	☐

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) **§ 130.1**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)

Location In Building	Type/Description of Lighting Control (i.e., occupancy sensor, dimming, automatic daylighting control, etc.)	# of Units	Standards Compliance (√ all that apply or "C" if exempt): §130.1(a)	§130.1(b)	§130.1(c)	§130.1(d)	§130.1(e)	In Acceptance Test Required?	Confirmed: Pass	Confirmed: Fail
Space 1	ROOM LIGHTING CONTROL SYSTEM	1	√	√	√	√	E	Yes	☐	☐

§100.1(a) = Alternate when exempt; §130.0(c) = Multi-Level; §130.1(c) = Auto Shut Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) **§ 140.6**

General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) **§ 140.6-D**

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) **§ 140.6(c) 3H**

Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed: Pass	Confirmed: Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Note: Tailored Method for special function Areas is not currently implemented

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U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWh/y)	Proposed Design Site (kWh/y)	Margin (kWh/y)	Standard Design Site (MBtu/y)	Proposed Design Site (MBtu/y)	Margin (MBtu/y)
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	27.8	27.8	0.0
Indoor Lighting	2.4	1.0	1.4	--	--	--
COMPLIANCE TOTAL	**12.7**	**11.4**	**1.3**	**31.6**	**27.8**	**3.8**
Receptacle	2.5	2.5	0.0	--	--	--
Process	--	--	--	--	--	--
Other Lig	--	--	--	--	--	--
TOTAL	**15.2**	**13.9**	**1.3**	**31.6**	**27.8**	**3.8**

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G, and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed: Pass	Confirmed: Fail
Covered Process	☐ NRCI-PRC-01-E Refrigerated Warehouse	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

				Confirmed: Pass	Confirmed: Fail
1.	Total Conditioned Floor Area	960 ft²	5. Number of Floors Above Grade	1	
2.	Total Unconditioned Floor Area	0 ft²	6. Number of Floors Below Grade	0	
3.	Addition Conditioned Floor Area	0 ft²			
4.	Addition Unconditioned Floor Area	0 ft²			

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	276 ft²	32 ft²	11.6%	☐	☐
East Wall	440 ft²	0 ft²	00.0%	☐	☐
South Wall	252 ft²	32 ft²	12.7%	☐	☐
West Wall	440 ft²	0 ft²	00.0%	☐	☐
Total	**1,408 ft²**	**64 ft²**	**04.5%**	☐	☐
Roof	960 ft²	0 ft²	00.0%	☐	☐

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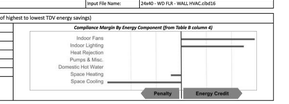
C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (In order of highest to lowest TDV energy savings)

1st	Indoor Fans: Check envelope and mechanical
2nd	Indoor Lighting: Check lighting
3rd	Heat Rejection: Check envelope and mechanical
4th	Pumps & Misc.: Check mechanical
5th	Domestic Hot Water: Check mechanical
6th	Space Heating: Check envelope and mechanical
7th	Space Cooling: Check envelope and mechanical

Compliance Margin By Energy Component (from Table B column 4)



D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided

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F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

Rectangular Spaces: Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Confirmed: Pass	Confirmed: Fail
NA	NA	NA	NA	NA	NA	☐	☐

Non-Rectangular Spaces

This Section Does Not Apply

Note: All applicable spaces are listed under the Non-Rectangular Spaces table

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)

1. Wall Display	2. Combined Floor Display and Task Lighting	3. Combined Ornamental and Special Effects Lighting	4. Very Valuable Merchandise	Allowed Watts	Confirmed: Pass	Confirmed: Fail
0	0	0	0	0	☐	☐

5. Wall Display

This Section Does Not Apply

6. Floor Display and Task Lighting

This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting

This Section Does Not Apply

8. Very Valuable Merchandise

This Section Does Not Apply

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT **§ 10-103**

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: SILVER CREEK	Signature:
Company: SILVER CREEK	
Address:	Signature Date: 6.25.18
City/State/Zip:	CEA Identification (if applicable):
Phone: 951-943-5393	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name: JOHN STARLIN	Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed: 6.25.18
City/State/Zip: PERRIS CA 92571	Declaration Statement Type: 1
Phone: 951-943-5393	Title: Engineer License #: 2475
Responsible Lighting Designer Name: JOHN STARLIN	Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed: 6.25.18
City/State/Zip: PERRIS CA 92571	Declaration Statement Type: 1
Phone: 951-943-5393	Title: Engineer License #: 2475
Responsible Mechanical Designer Name: JOHN STARLIN	Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed: 6.25.18
City/State/Zip: PERRIS CA 92571	Declaration Statement Type: 1
Phone: 951-943-5393	Title: Engineer License #: 2475

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J. FENESTRATION ASSEMBLY SUMMARY **§ 110.6** Confirmed

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method*	4. Assembly Method	5. Area ft²	6. Overall U-Factor	7. Overall SHGC	8. Overall VT	9. Exempt (Y/N)	Confirmed: Pass	Confirmed: Fail
SCI - NFC 8200 - SLIDER - SB60 / CLR	VerticalFenestration OperableWindow	NFRC Rated	Manufactured	64	0.51	0.36	0.50	N	☐	☐

** Newly-installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for fun glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*

*** Status: N - New, A – Altered, E – Existing*

Taking compliance credit for fenestration shading devices? (If "Yes", see NRCC-PRF-ENV-DETAILS for more information) No

K. OPAQUE SURFACE ASSEMBLY SUMMARY **§ 120.7/ § 140.3** Confirmed

1. Surface Name	2. Surface Type	3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. U-Factor / F-Factor / C-Factor	8. Exempt (Y/N)	Confirmed: Pass	Confirmed: Fail
2x4 T111 WALL	ExteriorWall	1408	Wood	13	NA	U-Factor: 0.065	N	☐	☐
SCI PLYWD FLOOR	ExteriorFloor	960	Metal	19	NA	U-Factor: 0.066	N	☐	☐
SCI MTL ROOF	Roof	960	Metal	30	NA	U-Factor: 0.055	N	☐	☐

Status: N - New, A – Altered, E – Existing

L. ROOFING PRODUCT SUMMARY **§ 140.3** Confirmed

1. Product Type	2. Product Density (lb/ft³)	3. Aged Solar Reflectance	4. Thermal Emittance	5. SRI	6. Cool Roof Credit	7. Roofing Product Description	Confirmed: Pass	Confirmed: Fail
SCI MTL ROOF	5.55781	0.08	0.75	NA	No	NA	☐	☐

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA" is not in project

For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path	Compliance Forms *(required for submittal)*	Location of Mandatory Notes on Plans
Envelope	☐ Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☐ Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐ NA		
Mechanical	☒ Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☐ Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐ NA		
Domestic Hot Water	☐ Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☒ Prescriptive	NRCC-PLB-01-E	
	☐ NA		
Lighting (Indoor Conditioned)	☒ Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☐ Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☐ NA		
Covered Process: Commercial Kitchens	☐ Performance	52 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-02/ 03-E	
	☒ NA		
Covered Process: Computer Rooms	☐ Performance	53 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-02/ 04-E	
	☒ NA		
Covered Process: Laboratory Exhaust	☐ Performance	54 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-02/ 09-E	
	☒ NA		

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H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E) **§ 130.4**

Declaration of Required Acceptance Certificates (NRCA) –Acceptance Certificates that must be verified in the field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		Indoor: NRCA-LTI-02-A	Indoor: NRCA-LTI-03-A	Indoor: NRCA-LTI-04-A	Outdoor: NRCA-LTO-02-A	Confirmed: Pass	Confirmed: Fail
Equipment Requiring Testing or Verification	# of units	Occ Sensors / Auto Time Switch	Auto Daylight	Demand Responsive	Outdoor Controls		
Occupant Sensors		☒	☐	☐	☐	☐	☐
Automatic Time Switch		☒	☐	☐	☐	☐	☐
Automatic Daylighting		☐	☒	☐	☐	☐	☐
Demand Responsive		☐	☐	☐	☐	☐	☐
Outdoor Controls		☐	☐	☐	☒	☐	☐

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NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS

1. Surface Name	2. Surface Type	3. Description of Assembly Layers	4. Notes	Confirmed: Pass	Confirmed: Fail
2x4 T111 WALL	ExteriorWall	Wood siding - 1/2 in. Vapor Permeable Felt - 1/16 in. Wood framed wall, 16in. OC, 2.33in., R-13 Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.		☐	☐
SCI PLYWD FLOOR	ExteriorFloor	Air - Cavity - Wall Roof Ceiling - 4 in. or more Metal framed floor, 24in. OC, 7.23in., R-19 Plywood - 1 in. Carpet - 3/4 in.		☐	☐
SCI MTL ROOF	Roof	Metal Standing Seam - 1/16 in. Building Paper - 1/32 in. Plywood - 3/4 in. Metal framed roof, 24in. OC, 9.25in., R-30 Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile

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Compliance Scope:	NewComplete	Input File Name:	24x40 - WO FLR - WALL HVAC.cbd16

F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* **§ RA4**

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-04A	MCH-04B	MCH-04C	MCH-04D	MCH-04E	MCH-04F	MCH-04G	MCH-04H	MCH-04I	MCH-04J	MCH-04K	MCH-04L	MCH-04M	MCH-04N	MCH-04O	Confirmed	
Equipment Requiring Testing or Verification	# of units	Duct Sealing	Supply Fans Variable Flow	Minimum Outdoor Air Intake	Air Economizer Controls	DCV	Supply Air Temperature Reset Controls	Variable Refrigerant Flow	Packaged Terminal Air Conditioners	Warm-Air Furnaces and Combination Warm-Air Furnaces/Air-Conditioning Units, Warm-Air Duct Furnaces and Unit Heaters	Boiler Hot Water Distribution System	Boiler Steam Distribution System	Boiler Operating Controls	Steam Condensate Return System	Chiller Water Temperature Control	Cooling Tower Fan Control	Pass	Fail
Non/Residential DHW/System	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐
AirSystem 1	1	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) **§ 140.6**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Location In Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Control Credit Calculation			≠ if Acceptance Test Required	Confirmed	
				Watts of Controlled Lighting	Power Adjustment Factor	Control Credit Watts		Pass	Fail
Space 1	Classrooms, Lecture, Training, Vocational Areas	- none specified -	1		0.00	0		☐	☐

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) **§ 130.1**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)

Location In Building	Type/Description of Lighting Control (i.e., occupancy sensor, dimming, automatic daylighting control, etc.)	# of Units	Standards Compliance (√ all that apply or "E" if exempt)					Is Acceptance Test Required?	Confirmed	
			§130.1(a)	§130.1(b)	§130.1(c)	§130.1(d)	§130.1(e)		Pass	Fail
Space 1	ROOM LIGHTING CONTROL SYSTEM	1	√	√	√	√	E	Yes	☐	☐

§130.1(a) = Manual area controls; §130.1(b) = Multi-Level; §130.1(c) = Auto Shut Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) **§ 140.6**

General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) **§ 140.6-D**

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) **§ 140.6(c) 3H**

Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed	
							Pass	Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Note: Tailored Method for Special Function Areas is not currently implemented

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A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) **§ 140.6**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Location In Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Control Credit Calculation			≠ if Acceptance Test Required	Confirmed	
				Watts of Controlled Lighting	Power Adjustment Factor	Control Credit Watts		Pass	Fail
Space 1	Classrooms, Lecture, Training, Vocational Areas	- none specified -	1		0.00	0		☐	☐

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) **§ 130.1**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)

Location In Building	Type/Description of Lighting Control (i.e., occupancy sensor, dimming, automatic daylighting control, etc.)	# of Units	Standards Compliance (√ all that apply or "E" if exempt)					Is Acceptance Test Required?	Confirmed	
			§130.1(a)	§130.1(b)	§130.1(c)	§130.1(d)	§130.1(e)		Pass	Fail
Space 1	ROOM LIGHTING CONTROL SYSTEM	1	√	√	√	√	E	Yes	☐	☐

§130.1(a) = Manual area controls; §130.1(b) = Multi-Level; §130.1(c) = Auto Shut Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) **§ 140.6**

General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) **§ 140.6-D**

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) **§ 140.6(c) 3H**

Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed	
							Pass	Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Note: Tailored Method for Special Function Areas is not currently implemented

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F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

Rectangular Spaces							Confirmed	
Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR		Pass	Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Non-Rectangular Spaces

This Section Does Not Apply

Note: All applicable spaces are listed under the Non-Rectangular Spaces table

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)

1.	2.	3.	4.	Allowed Watts	Confirmed	
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise		Pass	Fail
0	0	0	0	0	☐	☐

5. Wall Display

This Section Does Not Apply

6. Floor Display and Task Lighting

This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting

This Section Does Not Apply

8. Very Valuable Merchandise

This Section Does Not Apply

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H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS

1.	2.	3.	4.	Confirmed	
Surface Name	Surface Type	Description of Assembly Layers	Notes	Pass	Fail
2x4 T111 WALL	ExteriorWall	Wood siding - 1/2 in. Vapor Permeable Felt - 1/16 in. Wood framed wall, 16in. OC, 3.5in., R-13 Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.		☐	☐
SO PLYWD FLOOR	ExteriorFloor	Air - Cavity - Wall Roof Ceiling - 4 in. or more Metal framed floor, 24in. OC, 7.25in., R-19 Plywood - 1 in. Carpet - 3/4 in.		☐	☐
SO MTL ROOF	Roof	Metal Standing Seam - 1/16 in. Building Paper - 1/32 in. Plywood - 3/4 in. Metal framed roof, 24in. OC, 9.25in., R-30 Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.		☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

This Section Does Not Apply

C. OPAQUE DOOR SUMMARY

1.	2.	3.	4.	5.	6.	7.	Confirmed	
Opaque Door Assembly Name / Tag or I.D.	Door Type	Certification Method	Operation	Area	Overall U-factor	Status[1]	Pass	Fail
SCI - STD HM DOOR	MetalUninsulatedSingleLayerDoor	DefaultPerformance	Swinging	21	1.450	N	☐	☐

[1] Status: N - New, A' - Altered, E' - Existing

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**Authority-entries for an Occupancy Type may be listed in the table as these have been aggregated for Building Stories that have the same floor multiplier.*

B. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)[2] **§ 130.0**

Luminaire Schedule (Includes all permanent installed lighting in conditioned space, and portable lighting over 0.5 w/ft² in offices)

Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts (Conditioned)				Confirmed	
		Watts per luminaire	How Wattage is Determined		Total Number Luminaires	Installed Watts	Pass	Fail
			CEC Default from NA8	According to §130.0(c)				
SCI - 2x4 LED		60	No	Yes	8	480	☐	☐

[2] If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

D. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES **§ 140.9**

This Section Does Not Apply

E. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS **§ 140.9**

This Section Does Not Apply

G. COVERED PROCESS SUMMARY – COMPUTER ROOMS **§ 140.9**

This Section Does Not Apply

H. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS **§ 140.9**

This Section Does Not Apply

T. UNMET LOAD HOURS

This Section Does Not Apply

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWh)	Proposed Design Site (kWh)	Margin (kWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	–	5.1	–	29.5	–	–
Space Cooling	1.3	1.4	-0.1	–	–	–
Indoor Fans	5.5	3.2	2.3	–	–	–

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U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWh)	Proposed Design Site (kWh)	Margin (kWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Heat Rejection	–	–	–	–	–	–
Pumps & Misc.	–	–	–	–	–	–
Domestic Hot Water	–	–	–	28.0	28.0	0.0
Indoor Lighting	2.4	1.0	1.4	–	–	–
COMPLIANCE TOTAL	**9.2**	**10.7**	**-1.5**	**57.5**	**28.0**	**29.5**
Receptacle	2.5	2.5	0.0	–	–	–
Process	–	–	–	–	–	–
Other Lig	–	–	–	–	–	–
TOTAL	**11.7**	**13.2**	**-1.5**	**57.5**	**28.0**	**29.5**

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT **§ 10-103**

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: SILVER CREEK	Signature:
Company: SILVER CREEK	
Address:	Signature Date: 6.25.18
City/State/Zip:	CEA Identification (if applicable):
Phone: 951-943-5393	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name: JOHN STARLIN	Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed: 6.25.18
City/State/Zip: PERRIS CA 92571	Declaration Statement Title: 1
Phone: 951-943-5393	Title: Engineer License #: 2475
Responsible Lighting Designer Name: JOHN STARLIN	Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed: 6.25.18
City/State/Zip: PERRIS CA 92571	Declaration Statement Title: 1
Phone: 951-943-5393	Title: Engineer License #: 2475
Responsible Mechanical Designer Name: JOHN STARLIN	Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed: 6.25.18
City/State/Zip: PERRIS CA 92571	Declaration Statement Title: 1
Phone: 951-943-5393	Title: Engineer License #: 2475

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NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS

1.	2.	3.	4.	Confirmed	
Surface Name	Surface Type	Description of Assembly Layers	Notes	Pass	Fail
2x4 T111 WALL	ExteriorWall	Wood siding - 1/2 in. Vapor Permeable Felt - 1/16 in. Wood framed wall, 16in. OC, 3.5in., R-13 Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.		☐	☐
SO PLYWD FLOOR	ExteriorFloor	Air - Cavity - Wall Roof Ceiling - 4 in. or more Metal framed floor, 24in. OC, 7.25in., R-19 Plywood - 1 in. Carpet - 3/4 in.		☐	☐
SO MTL ROOF	Roof	Metal Standing Seam - 1/16 in. Building Paper - 1/32 in. Plywood - 3/4 in. Metal framed roof, 24in. OC, 9.25in., R-30 Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.		☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

This Section Does Not Apply

C. OPAQUE DOOR SUMMARY

1.	2.	3.	4.	5.	6.	7.	Confirmed	
Opaque Door Assembly Name / Tag or I.D.	Door Type	Certification Method	Operation	Area	Overall U-factor	Status[1]	Pass	Fail
SCI - STD HM DOOR	MetalUninsulatedSingleLayerDoor	DefaultPerformance	Swinging	21	1.450	N	☐	☐

[1] Status: N - New, A' - Altered, E' - Existing

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NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2016-NRCC-MCH-03-E)* **Confirmed**

1. DESIGN AIR FLOWS														2. VENTILATION (§ 120.1)																		Confirmed	
CONDITIONED ZONE NAME	ID	HEATING FLOW (CFM)	COOLING SUPPLY AIR FLOW (CFM)	MINIMUM AIR FLOW RATIO	MINIMUM HEATING AIR FLOW (CFM)	MINIMUM COOLING AIR FLOW (CFM)	DOAS CONTROL TYPE	MINIMUM OUTDOOR AIR FLOW (CFM)	USER DEFINED ID	CONTINUOUS MIN. OA FLOW (CFM)	MIN. VENT. RATE PERSON (CFM/PERSON)	MIN. VENT. RATE AREA (CFM/SQFT)	MECH. VENT. AIR FLOW (CFM)	SCREEN VENT AIR FLOW (CFM)	MAKEUP AIR FLOW (CFM)	ECON. TYPE	ECON. CAPACITY (CFM)	ECONOMIZER MINIMUM FLOW (CFM)	ENTHALPY RECOVERY (Y/N)	SENSIBLE HEAT RECOVERY EFFECTIVENESS	Pass	Fail
ThermalZone 1	AirSystem 1	1,700	NA	NA	NA	NA	N	AirSystem 1	960	NA	29	13.0	432	432	NA	N	N	☐	☐
								TOTAL	960		NA		NA	NA	NA			☐	☐

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY **§ 140.4**

1.	2.	3.	4.	5.	6.	7.		8.			Confirmed	
System ID	System Type	Qty	Rated Capacity (kBtu/h)		Economizer	Zone Name	Airflow (cfm)			Fan			Pass	Fail
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor		
TerminalUnit 1	Uncontrolled	1	NA	NA	NA	ThermalZone 1	1700	NA	NA	NA	NA	☐	☐	☐

C. EXHAUST FAN SUMMARY

This Section Does Not Apply

D. DHW EQUIPMENT SUMMARY – *(Adapted from NRCC-PLB-01)*

This Section Does Not Apply

E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G, and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed	
		Pass	Fail
Plumbing	☒ NRCI-PLB-01-E – For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-23-H - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☒ NRCI-LTI-01-E - For all buildings	☐	☐
	☒ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☒ NRCI-LTI-05-E - Lighting Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☒ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☒ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☒ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☒ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☒ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) **§ 110.1 / § 110.2**

Dry System Equipment [1] (Fan & Economizer Info included below in Table N)												Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	9.		10.	11.		
Equip Name	Equip Type	System Type (Simple [2] or Complex [3])	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Total Cooling Output (kBtu/h)	Efficiency		Acceptance Testing Required? (Y/N)	Compliant?	Pass	Fail
							Cooling	Heating				
AirSystem 1	SPVHP (Packaged/2Phase)	Simple	1	56	Yes	17	58	EER-10.0	HSPF-7.7	Yes	N	☐	☐

[1] Dry System Equipment includes furnaces, air handling units, heat pumps, etc.
[2] Simple systems must comply with the requirements listed in Section 140.4(a) and (b).
[3] Complex systems must complete NRCC-CFM-04-E commissioning design review form.
 # A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS
† Status: N - New, A' - Altered, E' - Existing

Wet System Equipment Section Does Not Apply

Discrepancy between modeled and designed equipment sizing? (If "Yes", see Table F "Additional Remarks" for an explanation)	No

N. ECONOMIZER & FAN SYSTEMS SUMMARY[1] **§ 140.4** **Confirmed**

1.	2.	3.				4.				5.	Pass	Fail
Equip Name	Outside Air	Supply Fan				Return Fan				Economizer Type (if present)		
	CFM	CFM	HP	BHP	TSP (Inch WC)	Control	CFM	HP	BHP	TSP (Inch WC)	Control			
AirSystem 1	432	1700	0.750	0.675	1.26	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer	☐	☐

[1] Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section

Project Name:	04-116668 - 24x40 - WO FLR - WALL HVAC - CZ 16	NRCC-PRF-01-E	Page 10 of 19
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I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

1.	Total Conditioned Floor Area	960 ft²	5.	Number of Floors Above Grade	1	Confirmed	
2.	Total Unconditioned Floor Area	0 ft²	6.	Number of Floors Below Grade	0	Pass	Fail
3.	Addition Conditioned Floor Area	0 ft²					
4.	Addition Unconditioned Floor Area	0 ft²					

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	252 ft²	32 ft²	12.7%	☐	☐
East Wall	440 ft²	0 ft²	00.0%	☐	☐
South Wall	276 ft²	32 ft²	11.6%	☐	☐
West Wall	440 ft²	0 ft²	00.0%	☐	☐
Total	**1,408 ft²**	**64 ft²**	**04.5%**	☐	☐
Roof	960 ft²	0 ft²	00.0%	☐	☐

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J. FENESTRATION ASSEMBLY SUMMARY **§ 110.6** **Confirmed**

1.	2.	3.	4.	5.	6.	7.	8.	9.	Confirmed	
Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method*	Assembly Method	Area ft²	Overall U-Factor	Overall SHGC	Overall VT	Shade? (Y/N)	Pass	Fail
SCI - INFC 8200 - SLIDER - SB60 / CLR	VerticalFenestration OperableWindow / N/A	NFRC Rated	Manufactured	64	0.51	0.36	0.50	N	☐	☐

** Newly-installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
† Status: N - New, A' - Altered, E' - Existing

| Taking compliance credit for fenestration shading devices? (If "Yes", see NRCC-PRF-

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Cutoff	Field Inspector	
01	02	03	04		05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default Power Adj	How wattage was determined: According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (03 x 05)	Primary Function area in which these luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
	LED Wallpack	30	☐	☑	1	30	Entry Door	UH: UL: FVH: BVH: FH: BH:	○	○
			☐	☐		0		UH: UL: FVH: BVH: FH: BH:	○	○
			☐	☐		0		UH: UL: FVH: BVH: FH: BH:	○	○
	INSTALLED WATTS PAGE TOTAL:					30	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E; Page 1			30

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ryan McIntosh	Documentation Author Signature: Ryan E McIntosh (Digitally signed by Ryan E McIntosh; DN: cn=Ryan E McIntosh, o=Silver Creek Inc, ou=Senior Designer/Drafting, email=rmcintosh@silvercreekinc.com, c=US; Date: 2018.06.25 11:46:12 -07'00')
Company: Silver Creek	Signature Date: 9.30.17
Address:	CEA Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
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Responsible Designer Name: John Starlin	Responsible Designer Signature: John W Starlin (Digitally signed by John W Starlin; DN: cn=John W Starlin, o=Silver Creek Inc, ou, email=jstarlin@silver-creek.net, c=US; Date: 2018.06.25 11:46:12 -07'00')
Company: Silver Creek	Date Signed: 6.25.18
Address:	License: 2475
City/State/Zip:	Phone:

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 1 of 4)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

A. General Information

Project Address:	Total Illuminated Hardscape Area:

Phase of Construction: ☑ New Construction ☐ Addition ☐ Alteration

Outdoor Lighting Zone (LZ) ☐ LZ-1 ☐ LZ-2 ☑ LZ-3 ☐ LZ-4

I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

B. Lighting Compliance Documents (check box for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

☑	NRCC-LTO-01-E	Certificate of Compliance
☑	NRCC-LTO-02-E	Outdoor Lighting Controls Certificate of Compliance
☑	NRCC-LTO-03-E	Outdoor Lighting Power Allowance Certificate of Compliance
☐	NRCC-LTO-04-E	Outdoor Lighting Existing Conditions Certificate of Compliance

C. Summary of Allowed Outdoor Lighting Power — Watts

01	**Sum Total ALLOWED** Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2.	30
	Complies ONLY if **Installed** (Box 02) ≤ **Allowed** (Box 01)	
02	**Sum Total INSTALLED** Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3.	30

D. Declaration of Required Installation Certificates

Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☑ NRCI-LTO-01-E - Must be submitted for all buildings	☐ Field Inspector
☑ NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector

E. Declaration of Required Certificates of Acceptance

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☑ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.	☐ Field Inspector

F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 2 of 4)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 3 of 4
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

C. Voltage Drop

Check all boxes below if he electrical power distribution system is in compliance with Section 130.5(c).

		Enforcement Agency Check that the system complies
☑	The electrical power distribution system meets the voltage drop requirement of Section 130.5(c). The maximum combined voltage drop on feeder conductors and branch circuit conductors to the farthest connected load or outlet, do not exceed 5%.	☐
☐	Voltage drop calculation documents showing compliance to Section 130.5(c) are submitted as part of the compliance document submittal.	☐

D. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles

Check one or more boxes below for applicable requirements of Section 130.5(d) for the electrical power distribution system.

		Field Inspector Check that the system complies
☐	The control is capable of automatically shutting OFF the controlled receptacles when the space is typically unoccupied, either at the receptacle or circuit level. For the automatic time switch control, it incorporates an override control that allows the controlled receptacle to remain ON for no more than 2 hours when an override is initiated and an automatic holiday "shut-OFF" feature that turns OFF all loads for at least 24 hours and then resumes the normally scheduled operation. Countdown timer switches are not be used to comply with the automatic time switch control requirements. The controls meet the requirement of Section 130.5(d)1.	☐
☐	There is at least one controlled receptacle within 6 ft from each uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.	☐
☐	There are installed split wired receptacles with at least one controlled and one uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.	☐
☐	Permanent and durable marking for controlled receptacles or circuits to differentiate them from uncontrolled receptacles or circuits is provided. The markings meet the requirement of Section 130.5(d)3.	☐
☐	For hotel and motel guest rooms, there are controlled receptacles for at least one-half of the 120-volt receptacles in each guest room. Electric circuits serving controlled receptacles in guestrooms are installed to have captive key controls, occupancy sensing controls, or automatic controls so the power is switched off no longer than 30 minutes after the guest room has been vacated. The receptacles meet the requirement of Section 130.5(d)4.	☐
☐	Receptacles that are only for the following purposes are excepted from Section 130.5(d): - Receptacles specifically for refrigerators and water dispensers in kitchen areas. - Receptacles located a minimum of six ft above the floor that are specifically for clocks. - Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms. - Receptacles on circuits rated more than 20 amperes. - Receptacles connected to an uninterruptible power supply (UPS) that are intended to be in continuous use, 24 hours per day/365 days per year, and are marked to differentiate them from other uncontrolled receptacles or circuits.	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 1 of 4
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

General Information

Project Address:	Climate Zone:	Conditioned Floor Area : 960 Unconditioned Floor Area :

Building Type: ☑ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel

☑ Schools ☑ Relocatable Public Schools ☐ Conditioned Spaces ☐ Unconditioned Spaces

Phase of Construction: ☑ New Construction ☐ Addition ☐ Alteration

In the table below identify all applicable construction documents that specify the requirements for the scope of responsibility reported by this certificate. Use additional pages as needed to list all construction documents related to compliance of Section 130.5.

Document Number	Document Title/Descriptions (include description information for Table or Schedule if it contains compliance information)	Document Sheet # or Page #	Indicate which subsection of Section 130.5 is related to the document (e.g. 130.5(a) for service electrical metering)
PC Drawings			

Add Row | Remove Last

A. Service Electrical Metering

Check one of the three boxes below if the electrical power distribution system is in compliance with Section 130.5(a).

☑ For newly installed electrical service in newly constructed buildings, Service Electrical Metering is required according to Section 130.5(a). *Fill out Column 1 through 6 of table below.*

☐ For new or replacement electrical service equipment in existing buildings, Service Electrical Metering is required according to Section 141.0(b)2PI. *Fill out Column 1 through 6 of table below.*

☐ EXCEPTION to Electrical Service Metering: Service or feeder for which the utility company provides a metering system that indicates instantaneous kW demand and kWh for a utility-defined period. *Fill out Column 1, 2 and 6 of table below with the compliance information.*

Fill out a separate line for each electrical service that is connected to the building.

Electrical Service Schedule	Electrical Service Rating	Metering Capabilities (check all that are present)				Exception to 130.5 (a)	Field Inspector
01	02	03	04	05	06	07	08
Electrical Service Designation/ Location/Description	kVA	Instantaneous (at the time) kW	Historical peak (kW)	Tracking kWh for a user-definable period	kWh per rate period	Utility metering system	Check that the metering complies
Building Feeder	49	☑	☐	☑	☐	☐	☐

Add Row | Remove Last

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 4 of 4
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ryan McIntosh	Documentation Author Signature: Ryan E McIntosh (Digitally signed by Ryan E McIntosh; DN: cn=Ryan E McIntosh, o=Silver Creek Inc, ou=Senior Designer/Drafting, email=rmcintosh@silvercreekinc.com, c=US; Date: 2018.06.25 11:46:12 -07'00')
Company: Silver Creek	Signature Date: 9.30.17
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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Responsible Designer Name: John Starlin	Responsible Designer Signature: John W Starlin (Digitally signed by John W Starlin; DN: cn=John W Starlin, o=Silver Creek Inc, ou, email=jstarlin@silver-creek.net, c=US; Date: 2018.06.25 11:46:12 -07'00')
Company: Silver Creek	Date Signed: 6.25.18
Address:	License: 2475
City/State/Zip:	Phone:

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 2 of 4
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

B. Separation of Electrical Circuits for Electrical Energy Monitoring

Check all boxes below if the electrical power distribution system is in compliance with Section 130.5(b).

☐ The electrical power distribution system meets the separation of electrical circuits for electrical energy monitoring requirement of Section 130.5(b). The electrical power distribution systems is designed so that measurement devices can monitor the electrical energy usage of load types according to TABLE 130.5-B.

☐ Describe the electrical power distribution system installed and the compliance method chosen in meeting the requirement of Section 130.5(b). Use the space below to include the information. Examples of compliance methods are detailed in Nonresidential Compliance Manual Chapter 8.

Fill out Column 1 thru 3 with the compliance information.

General Information	Electrical Power Distribution System information and Method of compliance	Electrical Service Rating	Enforcement Agency
01	02	03	04
Electrical Service Designation/Location/Description	Describe the electrical power distribution system installed and the compliance method used	kVA	Check that the system complies
NA	NA - System is less than 50kVA	49	☐

Field Inspector Notes:

APPROVED
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP.# 04-116668 DATE 7/24/2018

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THEREOF WITHOUT THE FUL
CONSENT OF SCI Inc.
ALL PATENTABLE MATERIAL
ORIGINATING WITH SCI Inc S

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CERTIFICATE OF COMPLIANCE FORMS

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2475
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

FILE NUMBER: 33-SILVER

PRE-CHECK I/PC'I DOCUMENT
CODE: 2017 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

P.C. SHEET NUMBER
A-0.6A

PHASE III

CERTIFICATE OF COMPLIANCE, OUTDOOR LIGHTING

CERTIFICATE OF COMPLIANCE, ELECTRICAL POWER DISTRIBUTION

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 09/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 1 of 3)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

A. Mandatory Outdoor Lighting Control Declaration Statements

Check all that apply:

- [x] Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- [x] Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
- [x] All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(d).
- [ ] Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5.
- [ ] All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- [ ] All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight and Glare requirements in accordance with Section 130.2(b)
- [ ] All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF in accordance with Section 130.2(c)1.
- [x] All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2.
- [x] All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3.
- [ ] For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)4..
- [ ] For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c)5
- [ ] Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting controls, shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 09/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 2 of 3)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist

Outdoor Lighting Control Schedule			Standards Complying With (✓ all that apply, or leave empty if Exempted)						✓ if Acceptance Test Required	Field Inspector	
01	02	03	04	05	06	07	08	09	10	11	
Location and Application of Luminaires Being Controlled	Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor photocontrol, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control)	# of Units	§130.2(a)	§130.2(c)1	§130.2(c)2	§130.2(c)3	§130.2(c)4	§130.2(c)5		Pass	Fail
Entry Door	Wall Pack	1		•	•	•			☐	○	○
									☐	○	○
									☐	○	○
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STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 09/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 3 of 3)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

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1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ryan McIntosh	Documentation Author Signature: Ryan E McIntosh (Digitally signed by Ryan E McIntosh. DN: cn=Ryan E McIntosh, o=Author, ou=Engineering, email=ryan@scinc.com, c=US. Date: 2018.06.25 15:34:07 -07'00')
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Company: Silver Creek	Date Signed: 6.25.18
Address:	License: 2475
City/State/Zip:	Phone:

CERTIFICATE OF COMPLIANCE, OUTDOOR LIGHTING CONTROLS

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
CEC-NRCC-PLB-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PLB-01-E
Water Heating System General Information	(Page 1 of 2)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

A. GENERAL INFORMATION/SYSTEM INFORMATION		
01	Water Heater System Name:	WH-1
02	Water Heater System Configuration:	
03	Water Heater System Type:	Domestic Hot Water
04	Building Type:	Nonresidential
05	Total Number of Water Heaters in Systems:	1
06	Central DHW Distribution Type:	
07	Dwelling Unit DHW Distribution Type:	

B. WATER HEATER INFORMATION Each water heater type requires a separate compliance document.		
01	Water Heater Type:	Instantaneous Small - Electric
02	Fuel Type:	Electricity
03	Manufacture Name:	EEMAX
04	Model Number:	SP 3012
05	Number of Identical Water Heaters:	1
06	Installed Water Heater System Efficiency:	.93
07	Required Minimum Efficiency:	.93
08	Standby Loss Percent or Standby Loss Total:	
09	Rated Input:	3 KW
10	Pilot Energy:	
11	Water Heater Tank Storage Volume:	
12	Exterior Insulation on Water Heater:	
13	Volume of Supplemental Storage:	
14	Internal Insulation on Supplemental Storage:	
15	Exterior Insulation on Supplemental Storage:	

C. PLUMBING COMPLIANCE FORMS & WORKSHEETS

Check box if worksheet is included.

For detailed instructions on the use of this and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual
Note: The Enforcement Agency may require all compliance documents to be incorporated onto the building plans.

YES	NO	Doc/Worksheet #	Title
⦿	○	NRCC-PLB-01-E	Certificate of Compliance, Declaration. Required on plans for all submittals.
○	○	NRCI-PLB-01-E	Certificate of Installation. Required on plans for all submittals.
○	○	NRCI-PLB-02-E	Certificate of Installation, required on central systems in high-rise residential, hotel/motel application.
○	○	NRCI-PLB-03-E	Certificate of Installation, required on single dwelling unit systems in high-rise residential, hotel/motel application.
○	○	NRCI-PLB-21-H	Certificate of Installation, required on HERS verified central systems in high-rise residential, hotel/motel application.
○	○	NRCI-PLB-22-H	Certificate of Installation, required on HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.
○	○	NRCI-STH-01-E	Certificate of Installation, required on any solar water heating

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
CEC-NRCC-PLB-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PLB-01-E
Water Heating System General Information	(Page 2 of 2)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

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I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: John Starlin	Responsible Designer Signature: John W Starlin (Digitally signed by John W Starlin. DN: cn=John W Starlin, o=Silver Creek Inc, ou, email=jstarlin@silver-creek.net, c=US. Date: 2018.06.26 15:19:07 -07'00')
Company: Silver Creek	Date Signed: 6.25.18
Address:	License: 2475
City/State/Zip:	Phone:

APPROVED
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP.# 04-116668 DATE JAN 9 2019

CERTIFICATE OF COMPLIANCE, WATER HEATER SYSTEM

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVERCREEK INDUSTRIES, INC (SCI Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURN
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THEREOF WITHOUT THE FUL
CONSENT OF SCI Inc.
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CERTIFICATE OF COMPLIANCE FORMS

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 2475 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

1	
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SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER

A-0.6B

PHASE III

24x40 BUILDING - DEFAULT ROOF

WOOD FLOOR + WALL MOUNT HEATPUMP

ZONE 14 - PALMDALE

Rotation	STANDARD TDV	PROPOSED TDV	COMPLIES / FAIL	MARGIN %	
30	377.98	342.86	COMPLIES	9.3%	
75	381.29	345.11	COMPLIES	9.5%	
120	380.8	343.41	COMPLIES	9.8%	
165	372.56	339.32	COMPLIES	8.9%	
210	369.25	341.91	COMPLIES	**7.4%**	RUN-CODE: 2018-06-25 12:27:24
255	371.6	343.36	COMPLIES	7.6%	
300	369.58	341.87	COMPLIES	7.5%	
345	372.21	338.88	COMPLIES	9.0%	
			RANGE:	2.4%	

ZONE 15 - PALM SPRINGS

Rotation	STANDARD TDV	PROPOSED TDV	COMPLIES / FAIL	MARGIN %	
30	431.04	400.24	COMPLIES	7.1%	
75	433.11	402.14	COMPLIES	7.2%	
120	431.69	400.67	COMPLIES	7.2%	
165	425.04	396.56	COMPLIES	6.7%	
210	431.42	398.89	COMPLIES	7.5%	
255	434.23	400.6	COMPLIES	7.7%	
300	432.7	399.77	COMPLIES	7.6%	
345	425.41	396.95	COMPLIES	**6.7%**	RUN-CODE: 2018-06-25 12:23:29
			RANGE:	1.1%	

ZONE 16 - BLUE CANYON

Rotation	STANDARD TDV	PROPOSED TDV	COMPLIES / FAIL	MARGIN %	
30	350.19	309.96	COMPLIES	11.5%	
75	352.08	311.72	COMPLIES	11.5%	
120	350.51	310.26	COMPLIES	11.5%	
165	342.39	307.28	COMPLIES	**10.3%**	RUN-CODE: 2018-06-25 10:52:39
210	351.77	309.18	COMPLIES	12.1%	
255	353.92	310.13	COMPLIES	12.4%	
300	351.83	308.92	COMPLIES	12.2%	
345	342.12	306.74	COMPLIES	10.3%	
			RANGE:	2.1%	

120x40 BUILDING - DEFAULT ROOF

WOOD FLOOR + WALL MOUNT HEATPUMP

ZONE 14 - PALMDALE

Rotation	STANDARD TDV	PROPOSED TDV	COMPLIES / FAIL	MARGIN %	
30	329.67	294.67	COMPLIES	10.6%	
75	334.74	298.96	COMPLIES	10.7%	
120	331.91	295.74	COMPLIES	10.9%	
165	312.6	290.15	COMPLIES	**7.2%**	RUN-CODE: 2018-06-25 12:27:38
210	320.88	293.68	COMPLIES	8.5%	
255	326.08	297.28	COMPLIES	8.8%	
300	321.95	294.37	COMPLIES	8.6%	
345	312.36	289.83	COMPLIES	7.2%	
			RANGE:	3.7%	

ZONE 15 - PALM SPRINGS

Rotation	STANDARD TDV	PROPOSED TDV	COMPLIES / FAIL	MARGIN %	
30	380.2	349.27	COMPLIES	8.1%	
75	385.36	353.73	COMPLIES	8.2%	
120	381.85	350.73	COMPLIES	8.1%	
165	372.93	344.66	COMPLIES	7.6%	
210	380.88	347.93	COMPLIES	8.7%	
255	383.69	352.21	COMPLIES	8.2%	
300	383.01	349.93	COMPLIES	8.6%	
345	373.33	345.11	COMPLIES	**7.6%**	RUN-CODE: 2018-06-25 12:23:24
			RANGE:	1.1%	

ZONE 16 - BLUE CANYON

Rotation	STANDARD TDV	PROPOSED TDV	COMPLIES / FAIL	MARGIN %	
30	295.18	261.85	COMPLIES	11.3%	
75	299.83	265.19	COMPLIES	11.6%	
120	295.6	262.93	COMPLIES	11.1%	
165	286.28	258.64	COMPLIES	**9.7%**	RUN-CODE: 2018-06-25 10:53:33
210	296.23	261.16	COMPLIES	11.8%	
255	301.56	263.82	COMPLIES	12.5%	
300	296.27	261.58	COMPLIES	11.7%	
345	285.9	258.13	COMPLIES	9.7%	
			RANGE:	2.9%	

CALIFORNIA ENERGY CODE - MANDATORY MEASURES

INTERIOR LIGHTING MANDATORY MEASURES:

- ALL LIGHTING CONTROL DEVICES AND SYSTEMS, BALLASTS, AND LUMINAIRES SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
- ALL LUMINAIRES SHALL BE FACTORY-LABELED PER SECTION 130.0(c).
- EACH ROOM AND AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL BE EQUIPPED WITH MANUAL ON AND OFF LIGHTING CONTROLS PER SECTION 130.1(a).
- ALL ROOMS AND AREAS 100 SF OR GREATER AND WITH MORE THAN 0.5 WATT PER SF OF LIGHTING LOAD WITH 2 OR MORE LUMINAIRES SHALL BE CONTROLLED WITH MULTI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM. CONTROL STEPS SHALL MEET REQUIREMENTS IN TABLE 130.1-A.
- PROVIDE VACANCY SENSOR OR PARTIAL-ON OCCUPANCY SENSOR IN ALL ROOMS.
- ALL GENERAL LIGHTING IN PRIMARY SIDELIT DAYLIT ZONES AND SKYLIT DAYLIT ZONES IN ENCLOSED SPACES WITH 120 WATTS, OR MORE IN COMBINED PRIMARY/SKYLIT ZONES AND 24 SF, OR MORE OF FENESTRATION, SHALL BE CONTROLLED WITH AUTOMATIC DAYLIGHTING CONTROLS PER SECTION 130.1(d).

OUTDOOR LIGHTING MANDATORY MEASURES:

- ALL LIGHTING CONTROL DEVICES AND SYSTEMS, BALLASTS, AND LUMINAIRES SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
- ALL LUMINAIRES SHALL BE FACTORY-LABELED PER SECTION 130.0(c).
- ALL OUTDOOR LIGHTING SHALL BE OPERATED WITH CONTROLS WHICH AUTOMATICALLY TURNS OFF OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE PER SECTION 130.2(c).
- ALL OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS WHICH ARE CONTROLLED BY AN AUTOMATIC SCHEDULING CONTROL PER SECTION 130.2(c).

SPACE CONDITIONING EQUIPMENT MANDATORY MEASURES:

- ALL SPACE CONDITIONING EQUIPMENT SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.2.
- MECHANICAL VENTILATION SHALL BE PROVIDED PER SECTION 120.1.
- ALL SPACE CONDITIONING CONTROLS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 120.2.
- ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 120.4.

BUILDING ENVELOPE MANDATORY MEASURES:

- ALL FENESTRATION PRODUCTS AND EXTERIOR DOORS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.6.
- ALL JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED TO LIMIT INFILTRATION AND EXFILTRATION PER SECTION 110.7.
- ALL INSULATION, ROOFING PRODUCTS AND RADIANT BARRIERS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.8.
- THE WEIGHTED AVERAGE U-FACTOR OF THE ROOF ASSEMLY SHALL NOT EXCEED 0.075 PER SECTION 120.7(a).
- THE WEIGHTED AVERAGE U-FACTOR OF THE EXTERIOR WALL ASSEMBLY SHALL NOT EXCEED 0.110 PER SECTION 120.7(b).
- THE WEIGHTED AVERAGE U-FACTOR OF THE FLOOR ASSEMBLY SHALL NOT EXCEED 0.071 PER SECTION 120.7(c).

SOLAR READY AND ELECTRICAL DISTRIBUTION MANDATORY MEASURES:

- A SOLAR ZONE SHALL BE PROVIDED ON THE ROOF OF THE BUILDING PER SECTION 110.10(b).
- A PATHWAY SHALL BE PROVIDED FROM THE SOLAR ZONE TO AN INDICATED LOCATION SUITABLE FOR THE FUTURE INSTALLATION OF INVERTERS AND METERING EQUIPMENT PER SECTION 110.10(c).
- ELECTRICAL SERVICE METERING SHALL UTILIZE A PERMANENTLY INSTALLED METERING SYSTEM PER SECTION 130.5(a).
- SEPERATION OF ELECTRICAL CIRCUITS SHALL NOT BE REQUIRED WHERE ELECTRICAL SERVICE OR FEEDER IS RATED AT 50 KVA OR LESS PER SECTION 130.5(b).
- THE VOLTAGE DROP TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5% PER SECTION 130.5(c).

24' (min) - 120' (max) x40' BUILDING - WALL MOUNTED HEAT PUMP

ZONE #	ALL ZONES (MIN.DESIGN)
Wall (min. R value)	1 - 16
Floor (min. R value)	13 (U = 0.082)
Roof (min. R value)	19 (U = 0.066)
HVAC	30 (U = 0.055)
Max. Tonnage	
Min. EER / COP	5 *
Outside Air	10 / 3 *
Occupancy Sensor	432 CFM (min)
DCV	YES
	NO

24' (min) - 120' (max) x40' BUILDING - ROOF MOUNTED HEAT PUMP

ZONE #	ALL ZONES (MIN.DESIGN)
Wall (min. R value)	1 - 16
Floor (min. R value)	13 (U = 0.082)
Roof (min. R value)	19 (U = 0.066)
HVAC	30 (U = 0.055)
Max. Tonnage	
Min. EER / HSPF	5 *
Outside Air	11.5 / 8.0 *
Occupancy Sensor	432 CFM (min)
DCV	YES
	NO

LEGEND

Occupancy Sensor: Ceiling mounted occupancy sensor with dimming controls. Automatic on for low level lighting only, full by manual activation.
DCV: Demand Control Ventilation

NOTE

Interior lights shall be dimmable LED fixtures, 60 Watts Max per fixtures, 4 fixtures per module
Windows shall be IWC 6200 horizontal slider (SB 60 / Clr) or equal, U-Factor - .510 (Max), SHGC = .360 (Max), Visual Transmittance = 0.500 (Min)
Doors shall be hollow metal, uninsulated single layer doors (Min), U-Factor = 1.450 (Max)
Buildings utilizing an exterior wall constructed of steel stud framing shall have min. R4 continuous rigid insulation (EPS or EPX material) on the interior side of the wall.
* Space conditioning systems installed on buildings being utilized in climate zone 16 shall utilize a 5kw electric resistance heating strip for supplemental heating.

The roof material used in the design analysis utilizes the default values specified in Section 110.8(i).
Aged solar reflectance of roof finish = 0.08, Aged thermal emittance of roof finish = 0.75

APPROVED
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP.# 04-116668 DATE: JAN 2 2019

CONSTRUCTION WASTE MANAGEMENT PLAN

A. DEFINITIONS
1. CONSTRUCTION AND DEMOLITION (C&D) WASTE: INCLUDES ALL NON-HAZARDOUS SOLID WASTES RESULTING FROM CONSTRUCTION, REMODELING, ALTERATIONS, REPAIR, AND DEMOLITION. INCLUDES MATERIAL THAT IS RECYCLED, REUSED, SALVAGED OR DISPOSED AS GARBAGE.
2. RECYCLING: THE PROCESS OF SORTING, CLEANING, TREATING, AND RECONSTITUTING MATERIALS FOR THE PURPOSE OF USING THE MATERIAL IN THE MANUFACTURE OF A NEW PRODUCT.
3. CO-MINGLED C&D RECYCLING: THE PROCESS OF COLLECTING MIXED RECYCLABLE MATERIALS IN ONE CONTAINER ON-SITE. THE CONTAINER IS TAKEN TO A MATERIAL RECOVERY FACILITY WHERE MATERIALS ARE SEPARATED FOR RECYCLING.

B. PERFORMANCE REQUIREMENTS
1. GENERAL WASTE MATERIAL GENERATED DURING PROJECTS SHALL BE RECYCLED OR REUSED WHENEVER PRACTICABLE. DIVERT A MINIMUM OF 90% C&D WASTE, BY WEIGHT, FROM THE LANDFILL BY A CO-MINGLED C&D RECYCLING FACILITY.
I. C&D WASTE MATERIALS THAT SHALL BE SALVAGED, REUSED OR RECYCLED INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
CONCRETE, METALS, WINDOW GLASS, WOOD, GYPSUM BOARD, CARPETING AND PAD, CEILING TILES

C. QUALITY ASSURANCE
1. PRECONSTRUCTION CONFERENCE: REVIEW METHODS AND PROCEDURES RELATED TO WASTE MANAGEMENT INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
I. REVIEW AND DISCUSS WASTE MANAGEMENT PLAN INCLUDING RESPONSIBILITIES OF WASTE MANAGEMENT COORDINATOR.
II. REVIEW REQUIREMENTS FOR DOCUMENTING QUANTITIES OF EACH TYPE OF MATERIALS THAT WILL BE SALVAGED, RECYCLED OR DISPOSED OF AS WASTE.
III. REVIEW PROCEDURES FOR PERIODIC WASTE COLLECTION AND TRANSPORTATION TO RECYCLING AND DISPOSAL FACILITIES.
IV. REVIEW WASTE MANAGEMENT REQUIREMENTS FOR EACH TRADE.

D. WASTE MANAGEMENT PLAN
1. INDENTIFY AND CONTRACT WITH A WASTE MANAGEMENT SERVICES PROVIDER OR ASSIGN RESPONSIBILITY TO INHOUSE WASTE MANAGEMENT PROJECT ADMINISTRATOR
2. RESPONSIBLE PARTY SHALL DEVELOP AND PROVIDE A PLAN WHICH INCLUDES THE FOLLOWING INFORMATION:
I. TYPES OF C&D WASTE EXPECTED TO BE GENERATED DURING DEMOLITION AND CONSTRUCTION.
II. PROPOSED METHODS FOR C&D WASTE SALVAGE, REUSE, RECYCLING AND DISPOSAL.
III. PROPOSED METHODS FOR SALVAGE, REUSE, RECYCLING AND DISPOSAL DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, ONE OR MORE OF THE FOLLOWING:
A. REQUIRING SUBCONTRACTORS TO TAKE THEIR C&D WASTE TO A RECYCLING FACILITY,
B. CONTRACTING WITH A RECYCLING HAULER TO HAUL RECYCLABLE C&D WASTE TO AN APPROVED RECYCLING OR MATERIAL RECOVERY FACILITY,
C. PROCESSING AND REUSING MATERIALS ON-SITE

E. WASTE MANAGEMENT REPORT
1. WASTE MANAGEMENT SERVICES PROVIDER OR ADMINISTRATOR SHALL SUBMIT A CUMULATIVE WASTE MANAGEMENT REPORT ON A REGULAR BASIS WHICH INCLUDES:
I. A RECORD OF THE TYPE AND QUANTITY, BY WEIGHT, OF EACH MATERIAL SALVAGED, REUSED, RECYCLED OR DISPOSED.
II. TOTAL QUANTITY OF WASTE RECYCLED AS A PERCENTAGE OF TOTAL WASTE.
III. DISPOSAL RECEIPTS: COPY OF RECEIPTS ISSUED BY A DISPOSAL FACILITY FOR C&D WASTE THAT IS DISPOSED IN A LANDFILL.
IV. RECYCLING RECEIPTS: COPY OF RECEIPTS ISSUED BY APPROVED RECYCLING FACILITIES FOR COMINGLED MATERIALS. INCLUDE WEIGHT TICKETS FROM THE RECYCLING HAULER OR MATERIAL RECOVERY FACILITY AND VERIFICATION OF THE RECYCLING RATE FOR CO-MINGLED LOADS AT THE FACILITY.
V. SALVAGED MATERIALS DOCUMENTATION: TYPES AND QUANTITIES, BY WEIGHT, FOR MATERIALS SALVAGED FOR REUSE ON SITE, SOLD OR DONATED TO A THIRD PARTY.

F. CONSTRUCTION WASTE MANAGEMENT, GENERAL REQUIREMENTS
1. USE DETAILED MATERIAL ESTIMATES TO REDUCE RISK OF UNPLARMED AND POTENTIALLY WASTEFUL CUTS.
2. TO THE GREATEST EXTENT POSSIBLE, INCLUDE IN MATERIAL PURCHASING AGREEMENTS A WASTE REDUCTION PROVISION REQUESTING THAT MATERIALS AND EQUIPMENT BE DELIVERED IN PACKAGING MADE OF RECYCLABLE MATERIAL, THAT THEY REDUCE THE AMOUNT OF PACKAGING, THAT PACKAGING BE TAKEN BACK FOR REUSE OR RECYCLING, AND TO TAKE BACK ALL UNUSED PRODUCT. INSURE THAT SUBCONTRACTORS REQUIRE THE SAME PROVISIONS IN THEIR PURCHASE AGREEMENTS.
3. CONDUCT REGULAR VISUAL INSPECTIONS OF DUMPSTERS AND RECYCLING BINS TO REMOVE CONTAMINANTS.
4. A MINIMUM OF 65% (BY WEIGHT) OF THE NON-HAZARDOUS CONSTRUCTION WASTE SHALL BE RECYCLED AND/OR SALVAGED FOR REUSE.
5. CONSTRUCTION WASTE MATERIALS SHALL BE COLLECTED IN CO-MINGLED CONTAINERS EXCEPT STEEL AND WOOD SHALL BE COLLECTED SEPARATELY.
6. CONSTRUCTION WASTE SHALL BE HAULED, SEPARATED, AND MEASURED BY CR+R (OR AN EQUAL WASTE MANAGEMENT COMPANY). A REPORT SHALL BE PROVIDED INDICATING THE DIVERSION RATE (BY VOLUME).

G. REMOVAL OF CONSTRUCTION WASTE MATERIALS, GENERAL REQUIREMENTS
1. REMOVE C&D WASTE MATERIALS FROM PROJECT SITE ON A REGULAR BASIS. DO NOT ALLOW C&D WASTE TO ACCUMULATE ON-SITE.
2. TRANSPORT C&D WASTE MATERIALS OFF PROPERTY AND LEGALLY DISPOSE OF THEM.
3. BURNING OF C&D WASTE IS NOT PERMITTED.

IEQ PLAN

A. CONSTRUCTION PHASE:
1. FILTERS
I. ALL MECHANICAL EQUIPMENT WHICH REQUIRES A FILTER SHALL NOT BE OPERATED WITHOUT A FILTER IN PLACE.
II. ALL FILTERS SHALL HAVE A MERV RATING OF 8 OR GREATER.
III. A PRESSURE GAUGE SHALL BE INSTALLED AT ALL MECHANICAL EQUIPMENT REQUIRING FILTERS WHICH MEASURES THE PRESSURE DROP ACROSS THE FILTER AND WHICH IS MARKED TO INDICATE WHEN THE FILTER REQUIRES CLEANING OR REPLACEMENT
2. PROTECTION OF MATERIALS
I. ALL BUILDING MATERIALS SHALL BE PROTECTED FROM WEATHER AND OTHER MOISTURE SOURCES WHEN RECOMMEND BY THE MANUFACTURER.
II. ANY POROUS MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL NOT BE INSTALLED.
III. ANY OTHER MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL BE THOROUGHLY CLEAN AND DECONTAMINATED PRIOR TO INSTALLATION.
3. PROTECTION OF INTERIOR ENVIRONMENT
I. WHENEVER POSSIBLE ALL SANDING, CUTTING GRINDING OR OTHER ACTIVITIES WHICH WILL GENERATE AIRBORNE PARTICLES SHALL BE PERFORMED AWAY FROM THE BUILDING.
II. WHERE AIRBORNE PARTICLE GENERATING ACTIVITIES CANNOT BE PERFORMED AWAY FROM THE BUILDING PROTECTIVE MEASURES SHALL BE TAKE TO SEAL INTERIOR AREAS TO REDUCE OR ELIMINATE PARTICLE TRANSFER.
III. ANY TEMPORARILY UNFILLED EXTERIOR OPENINGS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, TO PREVENT THE MOISTURE AND OTHER CONTAMINANTS FROM ENTERING THE BUILDING.
IV. ALL WELDING SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF EXTERIOR WALLS WHEREVER POSSIBLE.
4. DUCT SYSTEM CONSTRUCTION
I. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA HV AC DUCT CONSTRUCTION STANDARDS FOR METAL AND FLEXIBLE DUCTWORK.
II. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS.
III. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED NFPA 90A & NFPA 90B.
IV. ONCE INSTALLED ALL OPEN DUCTS AND REGISTERS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, UNTIL THE BUILDING HAS BEEN COMPLETELY INSTALLED AND ENCLOSED AND THE MECHANICAL SYSTEM IS READY TO BE STARTED.
V. ALL OIL FILM SHALL BE REMOVED FROM DUCTS PRIOR TO INSTALLATION.
VI. ALL DUST AND DIRT SHALL BE REMOVED FROM BOTH THE INTERIOR AND EXTERIOR OF ALL DUCTS PRIOR TO INSTALLATION.
5. MATERIALS INSTALLATION
I. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE PROVIDED WHEN MATERIALS WHICH EMIT VOLATILE ORGANIC COMPOUNDS (VOC) ARE INSTALLED.
II. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE CONTINUED UNTIL SUCH A TIME THAT THE VOC EMISSIONS HAVE DISSIPATED.
III. ANY TEMPORARY VENTILATION SHALL BE EXHAUSTED TO THE EXTERIOR OF THE BUILDING.
IV. WHEN TEMPORARY MECHANICAL VENTILATION IS USED A CONSTRUCTION FILTER SHALL BE INSTALLED WITH MERV RATING OF NOT LESS THAN 8. THE CONSTRUCTION FILTER SHALL BE REPLACED PRIOR TO OCCUPANCY.
V. MATERIALS INSTALLATION SHALL BE SEQUENCED WHENEVER POSSIBLE TO ALLOW FOR THE INSTALLATION OF VOC EMITTING MATERIALS PRIOR TO THE INSTALLATION OF POROUS AND FIBROUS MATERIALS.
VI. MATERIALS WHICH EMIT A SIGNIFICANT AMOUNT OF VOCS OR ODORS SHALL BE STORED IN A MANNER WHICH ALLOWS FOR OFF-GASSING, IN A DRY AND WELL VENTILATION AREA, PRIOR TO INSTALLATION.
VII. CARPETED SURFACES SHALL BE VACUUMED PER THE CRI/GREEN LABEL VACUUM CLEANER PROGRAM REQUIREMENTS AT COMPLETION OF CONSTRUCTION AND PRIOR TO OCCUPANCY.

LOW EMITTING MATERIALS + MOISTURE MANAGEMENT

SEALANTS AND CAULKS
ALL ADHESIVES, SEALANTS AND CAULKS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.1. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO CARPET, RESILIENT AND WOOD FLOORING ADHESIVES; BASE COVE ADHESIVES; CERAMIC TILE ADHESIVES; DRYWALL AND PANEL ADHESIVES; AEROSOL ADHESIVES; ADHESIVE PRIMERS; ACOUSTICAL SEALANTS; FIRE STOP SEALANTS; HVAC DUCT SEALANTS, SEALANT PRIMERS; AND CAULKS.

PAINTS & COATINGS
ALL PAINTS AND ARCHITECTURAL COATINGS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.3. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO SEALERS, STAINS, CLEAR WOOD FINISHES, FLOOR SEALERS AND COATINGS, WATERPROOFING SEALERS, PRIMERS, FLAT PAINTS AND COATINGS, NON-FLAT PAINTS AND COATINGS, AND RUST PREVENTATIVE COATINGS.

RESILIENT FLOORING SYSTEMS
ALL FLOORING SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.6.

COMPOSITE WOOD
ALL OF THE COMPOSITE WOOD PRODUCTS INSTALLED IN THE PROJECT SHALL MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.5. COMPOSITE WOOD PRODUCTS IN THIS CATEGORY ARE DEFINED IN THE CALIFORNIA AIR RESOURCES BOARD (CARE) AIRBORNE TOXIC CONTROL MEASURE (ATCM) TO REDUCE FORMALDEHYDE EMISSIONS FROM COMPOSITE WOOD PRODUCTS (SECTIONS 93120-93120.12, TITLE 17, CALIFORNIA CODE OF REGULATIONS. THE AFFECTED PRODUCTS INCLUDE HARDWOOD PLYWOOD, PLYWOOD WITH DECORATIVE SOFTWOOD VENEER, LAMINATED PRODUCTS WITH A COMPOSITE WOOD CORE OR PLATFORM, PARTICLEBOARD, MEDIUM DENSITY FIBERBOARD (MDF), AND FINISHED GOODS FABRICATED FROM THESE PRODUCTS.

CEILING & WALL SYSTEMS
ALL CEILING AND WALL SYSTEMS INSTALLED IN THE PROJECT'S INTERIOR TOTALING 90% OR MORE OF THE TOTAL AREAS OF SUCH PRODUCTS SHALL MEET THESE REQUIREMENTS. CEILING AND WALL SYSTEMS INCLUDE BUT ARE NOT LIMITED TO CEILING INSULATION INSTALLED WITHIN THE STRUCTURAL ENVELOP, WALL INSULATION, ACOUSTICAL CEILING PANELS, GYPSUM BOARD WALL PANELS, TACKABLE WALL PANELS, AND WALL COVERINGS. CERAMIC TILE AND OTHER ORGANIC-FREE METAL- OR MINERAL-BASED WALL COVERINGS ARE AVAILABLE FOR CREDIT WITHOUT ANY TESTING REQUIREMENTS. SITE APPLIED ADHESIVES AND SEALANTS AND SITE APPLIED PAINTS AND COATINGS ASSOCIATED WITH CEILING AND WALL SYSTEMS ARE TREATED UNDER OPTIONS 1 AND 2, RESPECTIVELY. CEILING AND WALL SYSTEMS SHALL BE TESTED AND EVALUATED FOR EMISSIONS OF VOCS OF CONCERN WITH RESPECT TO CHRONIC INHALATION EXPOSURES FOLLOWING THE SPECIFICATIONS OF THE CDPH STANDARD METHOD V1.1. THE SEPARATE COMPONENTS OR DISTINCT LAYERS OF THESE SYSTEMS SHALL BE MODELED TO THE STANDARD PRACTICE SCHOOL CLASSROOM USING THE CLASSROOM CEILING AREA AND/OR WALL AREA AS APPROPRIATE. FOR SYSTEMS CONSISTING OF MORE THAN ONE DISTINCT LAYER (E.G., WALLS COMPRISED OF INSULATION, WALL PANEL AND WALL COVERING), ALL LAYERS SHALL INDIVIDUALLY MEET THE REQUIREMENTS OF THE STANDARD PRACTICE.

CARPET SYSTEMS
ALL CARPET SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.4. ALL CARPET SHALL BE PER THE CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM OR SHALL BE LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE. ALL CARPET PAD SHALL BE PER THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.

PRIMARY EXTERIOR DOORS
ALL WALL AND FLOOR SURFACES WITHIN 24" OF A PRIMARY EXTERIOR DOOR SHALL BE NON-ABSORBANT. SEE DETAIL A/- FOR TYPICAL FLOOR AND WALL FINISH DIAGRAM.

ALL PRIMARY EXTERIOR DOORS SHALL BE PROTECTED BY AN OVERHANG, AWNING OR SIMILAR ELEMENT NOT LESS THAN 48" IN DEPTH.

OUTDOOR AIR QUALITY

HVAC, REFRIGERATION AND FIRE SUPPRESSION SYSTEMS SHALL NOT CONTAIN CFCs OR HALONS.

ACOUSTICAL CONTROL

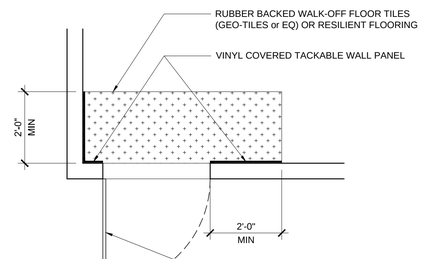
INTERIOR WALLS BETWEEN CLASSROOMS AND ADJACENT SPACES (WHERE OCCURS) SHALL BE FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE AND SHALL HAVE A STC RATING OF NOT LESS THAN 40. ONE OF THE FOLLOWING ASSEMBLY SHALL BE USED:

☐ 2x4 (MIN) STUDS @ 24" O.C. WITH 1 LAYER OF 1/2" GYP BD. EA SIDE OF WALL & 3 1/2" BATT INSULATION, ADDITIONAL LAYERS OF FINISH MATERIAL MAY BE INSTALLED OVER THE GYP BD., GYP BD SHALL BE FASTENED TO THE STUDS w/ 1-1/4" TYPE W SCREWS AT 12" OC, JOINTS SHALL BE STAGGERED (DESIGN #NGC 2012065)(STC-42)

☐ 2x4 (MIN) STUDS @ 16" O.C. WITH 2 LAYER OF 5/8" TYPE "X" GYP BD. EA SIDE OF WALL & 3 1/2" BATT INSULATION, ADDITIONAL LAYERS OF FINISH MATERIAL MAY BE INSTALLED OVER THE GYP BD., BASE LAYER OF GYP BD SHALL BE FASTENED TO THE STUDS w/1-7/8" 6d COATED NAILS AT 6" OC, FACE LAYER OF GYP BD SHALL BE FASTENED TO THE STUDS w/2-3/8" 8d COATED NAILS AT 8" OC, VERTICAL JOINTS SHALL OCCUR OVER A STUD, STAGGER JOINTS EACH LAYER AND EACH SIDE (DESIGN #NGC 2364) (STC-41)

WHEN THE PRE-CHECKED BUILDING IS SITE ADAPTED, THE BUILDINGS CONSTRUCTED PER THIS PC SHALL MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.507.4. THE ARCHITECT OF RECORD FOR THE PROJECT SITE THE PC BUILDING IS TO BE INSTALLED UPON SHALL IDENTIFY ANY ADDITIONAL NOISE TRANSMISSION MEASURES WHICH ARE REQUIRED BASED UPON THE NOISE LEVEL PRESENT AT THE PROJECT SITE. IF NECESSARY EXTERIOR WALL, ROOF AND WINDOW ASSEMBLIES MEETING THE STC AND OR OITC RATINGS SPECIFIED IN SECTIONS 5.507.4.1 + 5.507.4.1.1 SHALL BE UTILIZED.

WHEN THE PC BUILDING IS PLACED ADJACENT TO ANOTHER BUILDING, A SEPARATION (AIR GAP) OF NOT LESS THAN 6" SHALL BE PROVIDED.



A PRIMARY EXTERIOR WALL FINISH DIAGRAM

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

DESIGN ENERGY VALUES BY ZONE & CALGREEN SPEC'S

REGISTERED PROFESSIONAL ENGINEER
JOHN W STANLEY
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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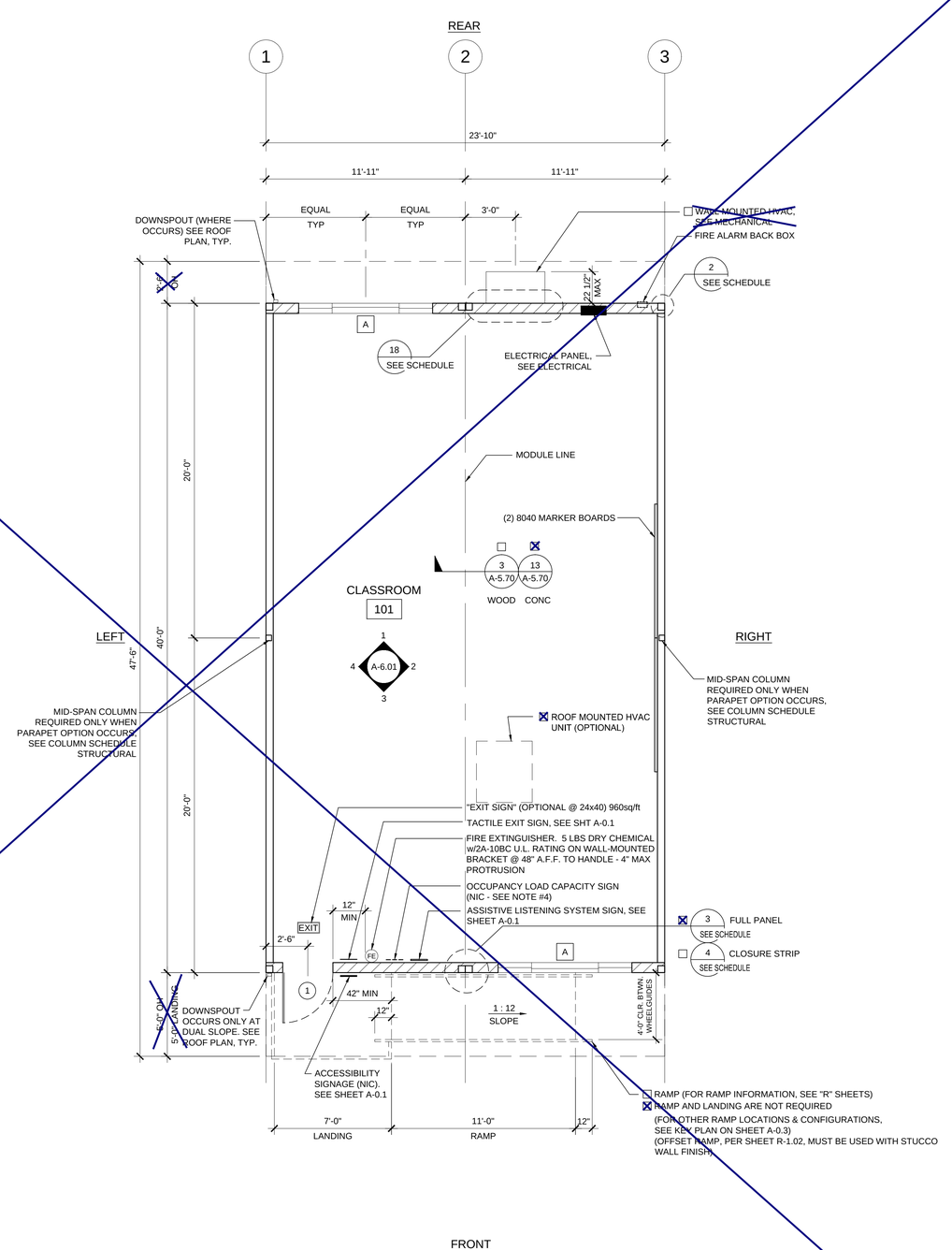

NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. PER IR 16-1.13 (2.1)
   (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND SPEED, EXPOSURE CATEGORY, AND Kzt = 1.0 2016 CBC, DESIGN CLIMATE ZONE, SEISMIC PARAMETER = S_S .
2. VINYL TACKBOARD INTERIOR FINISH SHALL COMPLY WITH CBC SECTION 803.7.
3. LOCATIONS OF DOORS AND WINDOWS MAY VARY PER JOB. (IF THE NUMBER OF WINDOWS INCREASE, A NEW TITLE 24 SHALL BE SUBMITTED TO DSA.)
4. POSTING OF OCCUPANCY LOAD SIGNS SHALL COMPLY WITH CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 ART. 3.30
5. (NOT IN MODULAR MANUFACTURER'S SCOPE OF WORK)
6. IF BUILDING IS TO BE RELOCATED, SEE RELOCATION SHEETS.
7. FOR BUILDINGS THAT ARE MANUFACTURED IN-PLANT, THE IN-PLANT INSPECTOR IS TO ATTACH A VERIFIED REPORT INSIDE EACH BUILDING, WHICH SHALL INDICATE THE MANUFACTURER'S NAME AND THE SERIAL NUMBER FOR EACH BUILDING MODULE AS WELL AS THE DSA FILE AND APPLICATION NUMBES, PER IR 16-1.13 (2.1)
7. ALL FIXTURE HEIGHTS TO BE VERIFIED PRIOR TO CONSTRUCTION.
8. INTERIOR WALLS MAY BE ADDED TO FLOOR PLAN. SEE STRUCTURAL
9. FOR CASEWORK, TEACHER WALL, OR TV BLOCKING OPTIONS, SEE SHEET A-5.80
10. INTERIOR WALLS BETWEEN CLASSROOMS AND ADJACENT SPACES (WHERE OCCURS) SHALL BE FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE AND SHALL HAVE A STC RATING OF NOT LESS THAN 40. SEE SHEET A-0.7 FOR WALL ASSEMBLY.

DETAIL SCHEDULE

FINISH:	SHEET #:
☒ SIDING OVER WOOD STUDS	A-5.50
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

FIRE PROTECTION:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

WALL LEGEND

NOMINAL 4" WALL STUD ☒
NOMINAL 6" WALL STUD ☒
NOMINAL 8" WALL STUD ☐

A WINDOW PER SCHEDULE SHEET A-0.2
DOOR PER SCHEDULE SHEET A-0.2

NOTE:
IF PARAPET IS USED & HIGHER THAN 18", END WALLS MUST BE 2x6 @ 24" O.C.

2x4 WALL FRAMING NOT ALLOWED WITH PLASTER WALL FINISH.

THIS PLAN MAY INCLUDE THE VARIOUS EXERCISABLE OPTIONS APPLICABLE TO THE PC SUCH AS PARTITION WALLS, PLUMBING, ETC. FOR REFERENCE PURPOSES. OPTIONS CAN BE APPLIED AS REQUIRED TO THE PC'S BUILDING SIZES.

MARKING & IDENTIFICATION OF FIRE RATED CONSTRUCTION. (CBC 703.7)
FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:

1. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES;
2. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND
3. INCLUDE LETTERING NOT LESS THAN 3" IN HEIGHT AND A MIN. 3/8" STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING. "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" OR OTHER SIMILAR WORDING.

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SILVER CREEK

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

FLOOR PLAN
24' x 40'

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24475
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CCR, 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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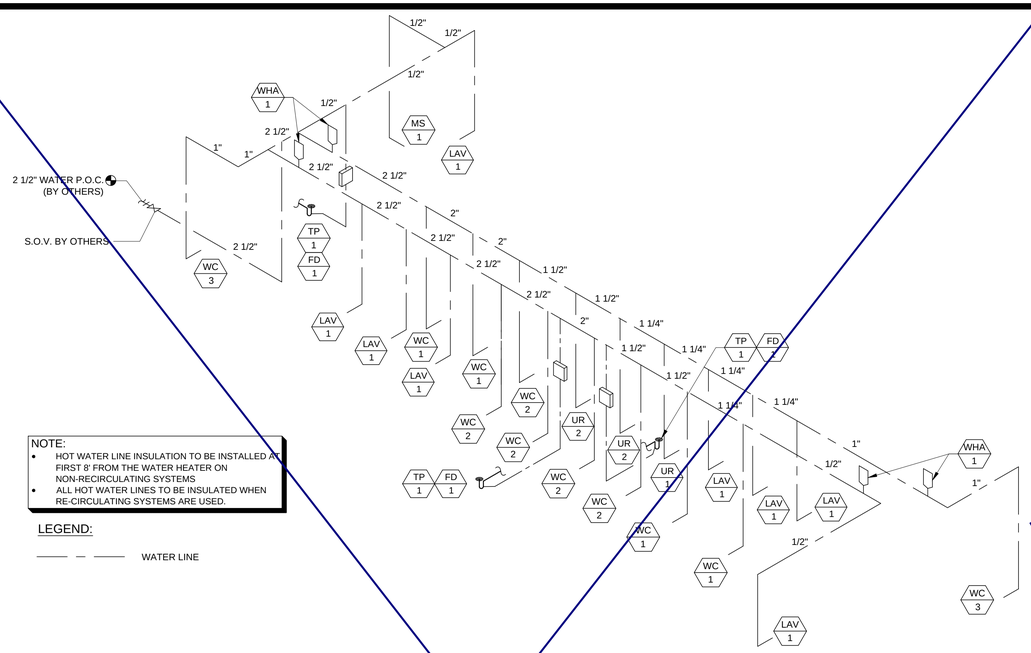
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

P.C. SHEET NUMBER
A-1.01

PHASE III

FLOOR PLAN
SCALE: 1/4" = 1' - 0"
1



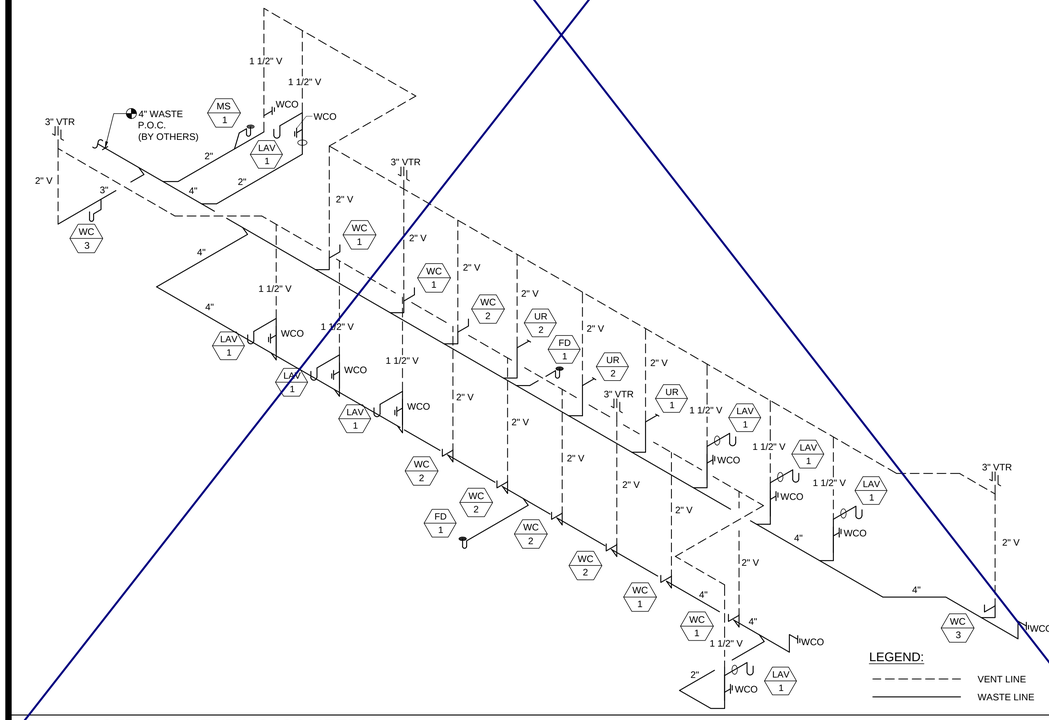
NOTE:
- HOT WATER LINE INSULATION TO BE INSTALLED AT FIRST 8' FROM THE WATER HEATER ON NON-RECIRCULATING SYSTEMS
- ALL HOT WATER LINES TO BE INSULATED WHEN RE-CIRCULATING SYSTEMS ARE USED.

LEGEND:

——— – ——— WATER LINE

SUPPLY ISOMETRIC

SCALE: N.T.S. | 3



WASTE AND VENTING ISOMETRIC

SCALE: N.T.S. | 4

THE DIVISION OF THE STATE ARCHITECT, OFFICE OF REGULATION SERVICES ACCEPTS THE FOLLOWING DIMENSIONS AS ADEQUATELY SERVING THE NEEDS OF CHILDREN IN PROJECTS UNDER THEIR JURISDICTION. THESE DIMENSIONS ARE BASED ON CBC TABLE 11B-604.9 SUGGESTED DIMENSIONS FOR SERVING CHILDREN AGES 3 TO 12.

ACCESSIBILITY DIMENSIONS	11B-604.9 SUGGESTED DIMS			
	ADULT	AGES 9 THROUGH 12	AGES 5 THROUGH 8	AGES 3 AND 4
TOILET CENTERING FROM WALL	17" - 18"	15" - 18"	12" - 15"	12"
TOILET SEAT HEIGHT (DIM TO TOP OF SEAT)	17" - 19"	15" - 17"	12" - 15"	11" - 12"
GRAB BAR HEIGHT (TO TOP)	33" - 36"	25" - 27"	20" - 25"	18" - 20"
TOILET PAPER IN FRONT OF TOILET	7" - 9"	7" - 9"	7" - 9"	7" - 9"
NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX.	12" MAX.	N/A	N/A
MIRROR HEIGHT (TO BOTTOM OF GLASS)	40" MAX.	40" MAX.	36" MAX.	32" MAX.
DISPENSER HEIGHT	19" MIN.	17" - 19"	14" - 17"	14"
LAVATORY/SINK TOP HEIGHT	34" MAX.	31" MAX.	31" MAX.	24" MAX.
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	24" MIN.	SIDE APPROACH
URINAL LIP HEIGHT	17" MAX.	17" MAX.	15" MAX.	13" MIN.
URINAL FLUSH HANDLE HEIGHT	44" MAX.	44" MAX.	37" MAX. *	32" MAX. *
DRINKING FOUNTAIN BUBBLER HT. (LOW)	36" MAX.	30" MAX.	30" MAX.	30" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	SIDE APPROACH	SIDE APPROACH	SIDE APPROACH
RAMP/STAIR HANDRAIL HEIGHT (TO TOP)	34" - 38"	34" - 38"	34" - 38"	34" - 38"
STANDARD DIMENSIONS	**ALTERNATE HEIGHT (DIMS)**			
	ADULT	AGES 9 THROUGH 12	AGES 5 THROUGH 8	AGES 3 AND 4
TOILET CENTERING FROM WALL/PARTITION	15" MIN	15" MIN	15" MIN	15" MIN
TOILET SEAT HEIGHT/DIM TO TOP OF SEAT	15"	15"	15"	15"
TOILET CLEARANCE/FRONT	24"	24"	24"	24"
URINAL LIP HEIGHT	24"	24"	18"	16"
URINAL CENTER FROM WALL/PARTITION	12"	12"	12"	12"

PLUMBING ACCESSORIES (REF. ONLY-MODELS FURNISHED AND INSTALLED BY DISTRICT U.N.O.)

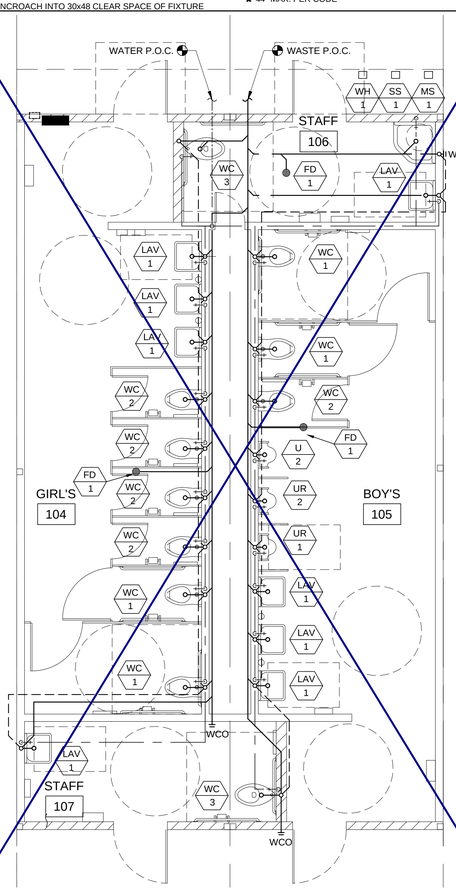
A SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX. PROJECTION

B PAPER TOWEL DISPENSER/TRASH BIN COMBO: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30x48 CLEAR SPACE OF FIXTURE

C TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION

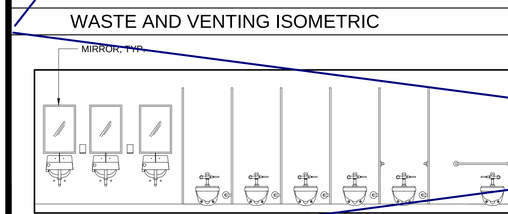
D TOILET SEAT DISPENSER: SURFACE MOUNTED

★ 44" MAX. PER CODE



PLUMBING PLAN

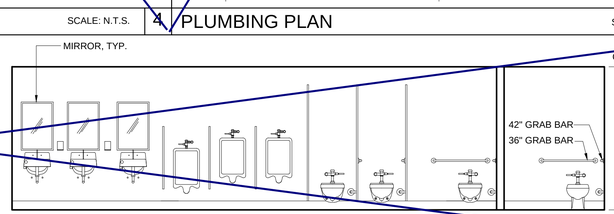
SCALE: 1/4" = 1'-0" | 1



NOTE:
SEE SHEET P-1.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

PLUMBING FIXTURE ELEVATION - GIRLS

SCALE: 1/4" = 1'-0" | 5



PLUMBING FIXTURE ELEVATION - BOYS

SCALE: 1/4" = 1'-0" | 2

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL)
WC 1	[AGE 5 TO ADULT] WATER CLOSET WALL MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD PF1731 WALL (1.28 GPF) ALT: AMERICAN STD ADA 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER
WC 2	[AGE 5 TO ADULT] WATER CLOSET WALL MTD/ FLUSH (NON-ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD PF1731 WALL (1.28 GPF) ALT: AMERICAN STD ADA 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER
WC 3	[ADULT] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO PF1723 (1.28 GPF) ALT: AMERICAN STD ADA 3043.001 "MADERA" 16 3/4" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 10" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
WC 4	[AGE 9-12] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD PF1721 (1.28 GPF) ALT: AMERICAN STANDARD 2234.001 MADERA 15" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
WC 5	[AGE 9 TO ADULT] WATER CLOSET FLOOR MTD/FLUSH (NON-ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD PF1721 (1.28 GPF) ALT: AMERICAN STANDARD 2234.001 MADERA 15" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
WC 6	[AGE 3-4] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE & NON-ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO PF1708BB (1.28 GPF) ALT: AMERICAN STANDARD BABY DEVORO 2282.010 VITREOUS CHINA ELONGATED RIM, 10" ROUGH-IN LOW CONSUMPTION CLOSET BOWL; OLSONITE 12CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSH VALVE
WC 7	[ADULT] WATER CLOSET TANK TYPE (ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO PF9403 (1.28 GPF) ALT: AMERICAN STANDARD ADA 2758.128, 17 HIGH, VITREOUS CHINA ELONGATED RIM, TANK TYPE; 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
WC 8	[AGE 9-12] WATER CLOSET TANK TYPE (ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO STANDARD PF9401 (1.28 GPF) ALT: AMERICAN STANDARD 2832.128, 16" HIGH, VITREOUS CHINA ELONGATED RIM, TANK TYPE; 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
WC 9	[AGE 9 TO ADULT] WATER CLOSET TANK TYPE (NON-ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO STANDARD PF9401 (1.28 GPF) ALT: AMERICAN STANDARD 2832.128, 16" HIGH, VITREOUS CHINA ELONGATED RIM, TANK TYPE; 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
WC 10	[AGE 3-4] WATER CLOSET TANK TYPE (ACCESSIBLE & NON-ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO PF1704BB (1.28 GPF) ALT: AMERICAN STANDARD 2315.016 BABY DEVORO 10" HIGH, 10" ROUGH-IN, VITREOUS CHINA ELONGATED RIM, TANK TYPE; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
WC 11	[AGE 5-8] WATER CLOSET TANK TYPE (ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO PF1704BB (1.28 GPF) ALT: AMERICAN STANDARD 2315.016 BABY DEVORO 10" HIGH, 10" ROUGH-IN, VITREOUS CHINA ELONGATED RIM, TANK TYPE; CHURCH 2L2155T (2" LIFT) SOLID OPEN WHITE ELONG. PLASTIC SEAT
WC 12	[AGE 5-8] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	AMERICAN STANDARD 2599.001 MADERA YOUTH (1.28 GPF) 14" HIGH, VITREOUS CHINA ELONG. RIM, SIPHON JET, 10" ROUGH-IN; OLSONITE 10SSCTFR ELONG. WHITE PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
LAV 1	LAVATORY (ACCESSIBLE)	1/2"	-	2"	1 1/2"	STD: AMERICAN STANDARD 0355.012 LUCERNE ALT: CRANE 1-412V "HARWICH" 20X18" VITREOUS CHINA; JAY R SMITH #722 CONCEALED HANGER; OLYMPIA #6161 SINGLE HANDLE FAUCET (0.5 GPM)
UR 1	URINAL (ACCESSIBLE)	3/4"	-	2"	1 1/2"	STD: PROFLO PF 1815 (0.125 GPF) ALT: AMERICAN STANDARD 6550.005 VITREOUS CHINA, WALL HUNG, SIPHON JET URINAL WITH INTEGRAL TRAP; SLOAN REGAL 186-0.125 LOW CONSUMPTION FLUSHOMETER VALVE
UR 2	URINAL (NON-ACCESSIBLE)	3/4"	-	2"	1 1/2"	STD: PROFLO PF 1815 (0.125 GPF) ALT: AMERICAN STANDARD 6550.005 WASHOUT VITREOUS CHINA, WALL HUNG URINAL WITH INTEGRAL TRAP; SLOAN REGAL 186-0.125 LOW CONSUMPTION FLUSHOMETER VALVE
FD 1	FLOOR DRAIN	-	-	2"	1 1/2"	JAY R SMITH #2005YA-02-P050-NB. FLOOR DRAIN TAPPED FOR PRIMER. 5" NICKEL BRONZE STRAINER W/ 1/4" MAX. GRATE OPENINGS
TP 1	TRAP PRIMER	1/2"	-	-	-	PR-500 WITH 8"X12" LOCKABLE BOX, 1/2" BALL SHUT-OFF VALVE, AND PPP DU-U FRESH WATER DISTRIBUTION SYSTEM
WHA 1	WATER HAMMER ARRESTOR	1"	-	-	-	PPP SC-1000
GB 1	GRAB BAR	-	-	-	-	BOBRICK B-6806-1-1/2 OC STAINLESS STEEL GRAB BAR - SATIN FINISH; 36" LONG ON BACK AND 42" ON SIDE
MR 1	MIRROR	-	-	-	-	SERIES 530 RETURNED MIRRORS STAINLESS STEEL - 18GA 18"X24" - "J" SHEET METAL MANUFACTURED OR APPROVED EQUAL
PAR 1	TOILET PARTITION	-	-	-	-	METAL POWDER COATED
SS 1	SERVICE SINK	1/2"	1/2"	2"	1 1/2"	KOHLER K-6714 "BANNON" 22"X18" CAST IRON, ACID RESISTANT SINK; K-8905-RP "KNOXFORD" FAUCET; K-6672 2" I.P.S. TRAP
MS 1	MOP SINK	1/2"	1/2"	2"	1 1/2"	KOHLER K-6710 "WHITBY" 28"X28" CAST IRON W/ CHICAGO FAUCET 956-R, 853 WALL HOOK, AND 2" K-9142 STRAINER
CS 1	CLASSROOM SINK (OPTION)	1/2"	1/2"	2"	1 1/2"	JUST CRA-1725-A-GR 17"x25" w/ 4 1/2" BOWL DEPTH, WITH CHICAGO FAUCET #350 AND BUBBLER JSB-10
WH 1	WATER HEATER (OPTION)	3/4"	3/4"	-	-	☐ A.O. SMITH #DEL-6 (6 GALLON) ☐ A.O. SMITH #DEL-10 (10 GALLON)
WH 2	INSTANT WATER HEATER (OPTION)	1/2"	1/2"	-	-	EEMAX #SP3012, 120V, 3.0KW, 25A
DF 1	DRINKING FOUNTAIN	1/2"	-	2"	1 1/2"	HALSEY-TAYLOR / BI-LEVEL HAC8FSBL-Q / COOLING TYPE

** NOTE;
WHERE FLUSH VALVES OR TOILET TANKS CONFLICT WITH THE REAR GRAB BAR, THE 36" REAR GRAB BAR SHALL BE SHIFTED TO THE OPEN SIDE OF THE TOILET AREA WITH 1 1/2" MIN. CLEARANCE FROM FIXTURE OR CONTROL VALVE.

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DATE: 03/27/2020

SILVER CREEK

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

TOILET BUILDING 24'x40'
PLUMBING SHEET

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

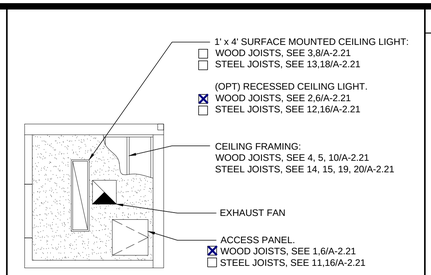
P.C. SHEET NUMBER

A-1.07

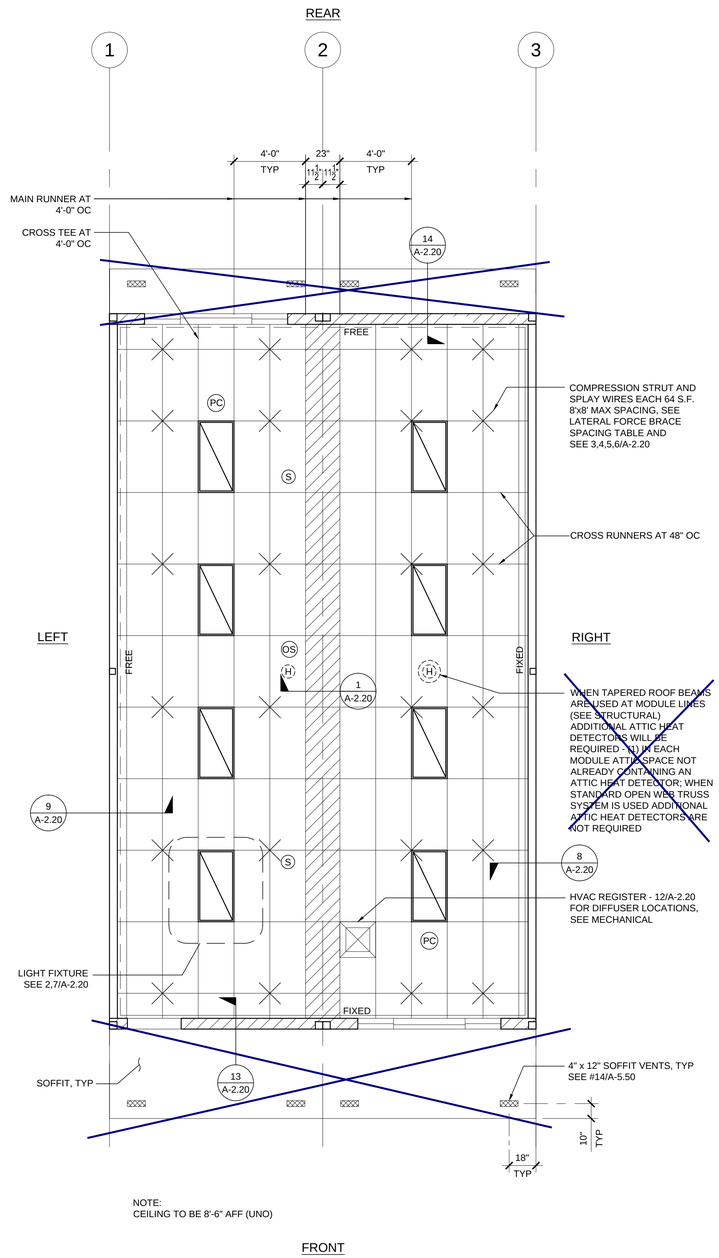
PHASE III

NOT USED | 2

NOT USED | 3



HARDLID CEILING (OPTIONAL) SCALE: 1/4" = 1'-0" | 1A



REFLECTED CEILING PLAN SCALE: 1/4" = 1' - 0" | 1

LEGEND

- T-BAR CEILING
- FIELD INSTALLED PANEL AT MODULE LINE
- 2' x 4' RECESSED LIGHT FIXTURE
- "OPTIONAL" 1' x 4' RECESSED LIGHT FIXTURE
- SPLAY WIRE
- RETURN AIR REGISTER
- SUPPLY AIR REGISTER
- CEILING EXHAUST FAN
- (OS) CEILING MOUNTED OCCUPANCY SENSOR
- (PC) CEILING MOUNTED PHOTOCELL
- (S) CEILING MOUNTED SMOKE DETECTOR
- (H) ATTIC MOUNTED HEAT DETECTOR

NOTE:
FOR ALL REFLECTED CEILING NOTES SEE SHEET A-0.1

T-BAR SCHEDULE

ARMSTRONG PART NUMBERS ICC-ES ESR-1308

MAIN RUNNER: 7301
4' CROSS TEE: XL7341
2' CROSS TEE: XL7328

STANDARD 7/8" WALL ANGLE WITH BERC-2 CLIP (ICC #ESR-1308) 2" WALL ANGLE: 7810 (OPTIONAL)

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SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

REFLECTED CEILING PLAN
24' x 40'

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24475 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
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AC RM FLS DS SS KR
DATE 07/24/2018

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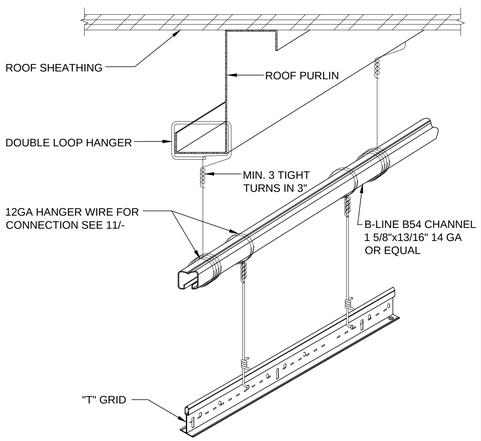
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER

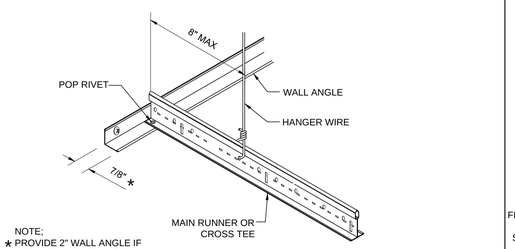
A-2.01

PHASE III



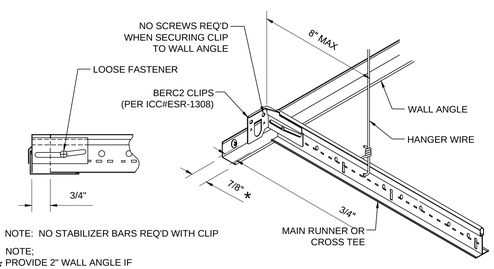
NOTE:
LOCATION MAY VARY (SEE NOTE "C" ON SHEET A-0.1)

TRAPEZE DETAIL 17



NOTE;
* PROVIDE 2" WALL ANGLE IF BERC2 CLIP IS NOT USED ON FREE SIDES

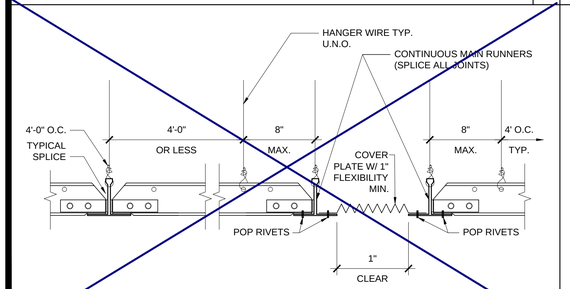
FIXED SIDE SCALE : NTS 18



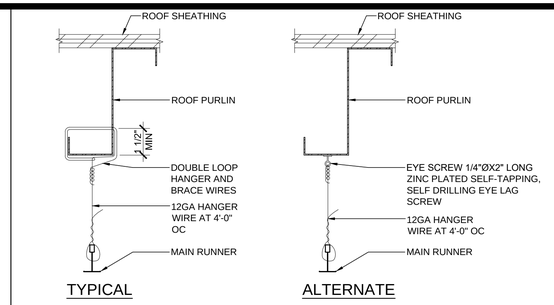
NOTE: NO STABILIZER BARS REQ'D WITH CLIP

NOTE;
* PROVIDE 2" WALL ANGLE IF BERC2 CLIP IS NOT USED

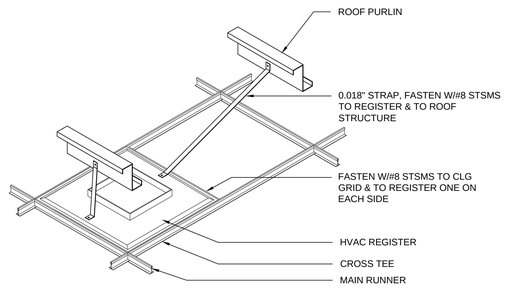
FREE SIDE SCALE : NTS 19



GRID SEISMIC SEPARATION JOINT SCALE : 3"=1'-0" 20

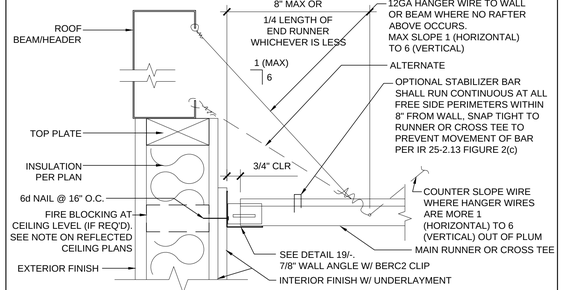


HANGER WIRE DETAIL SCALE : 3"=1'-0" 11



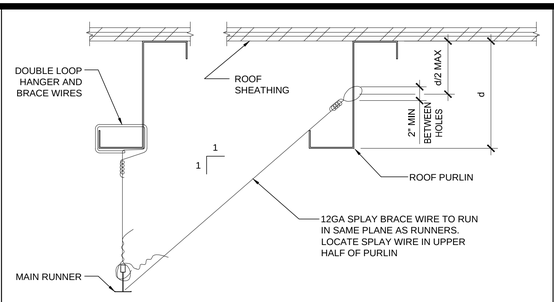
HVAC REGISTER MOUNTING SCALE : NTS 12

HANGER WIRE - FIXED SIDE (ENDWALL) SCALE : 3"=1'-0" 13

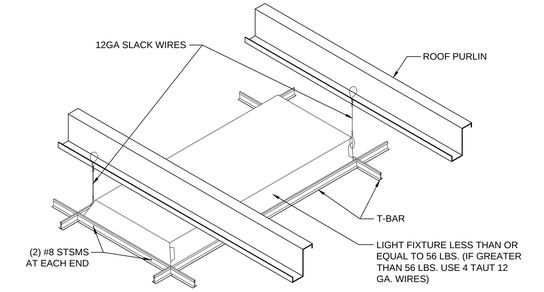


HANGER WIRE - FREE SIDE (ENDWALL) SCALE : 3"=1'-0" 14

ATTIC DRAFT STOP SCALE : 3"=1'-0" 15

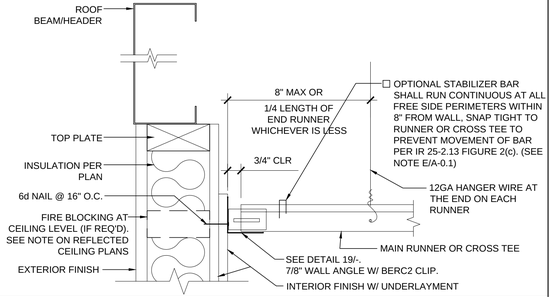


SPLAY BRACING WIRE SCALE : 3"=1'-0" 6

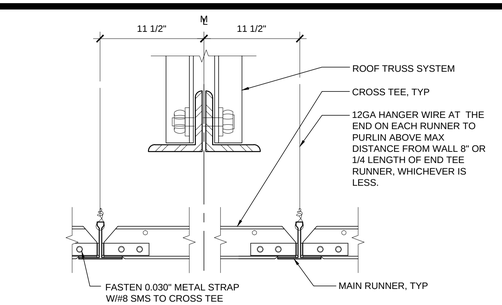


LIGHT FIXTURE MOUNTING SCALE : NTS 7

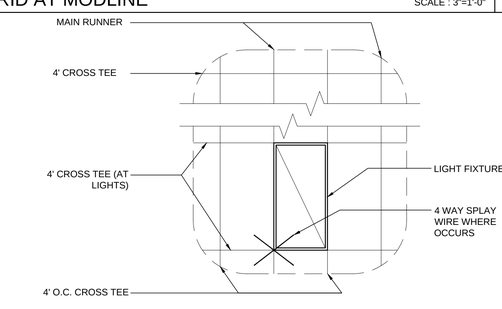
HANGER WIRE - FIXED SIDE (SIDEWALL) SCALE : 3"=1'-0" 8



HANGER WIRE - FREE SIDE (SIDEWALL) SCALE : 3"=1'-0" 9

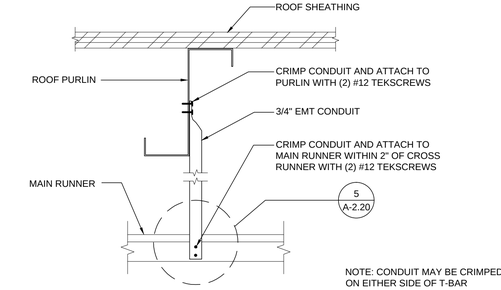


GRID AT MODLINE SCALE : 3"=1'-0" 1



4' CROSS TEE AT LIGHTS SCALE : 3/8"=1'-0" 2

SEISMIC SPLAY - 4 WAY SCALE : NTS 3



NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR

COMPRESSION STRUT SCALE : 3"=1'-0" 4

HVAC DUCTWORK MOUNTING SCALE: NTS 10

NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR, DEPENDING UPON CONDITION & LOCATION

COMPRESSION STRUT SCALE : 3"=1'-0" 5

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SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CEILING DETAILS
T-GRID

REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CCR, 2019 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
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DATE 07/24/2018

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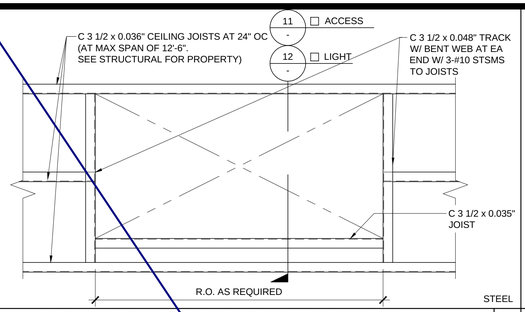
SILVER CREEK INDUSTRIES
24' x 40' PC

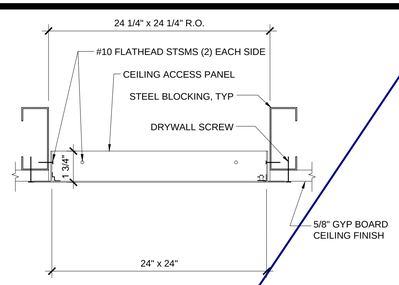
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER
A-2.20

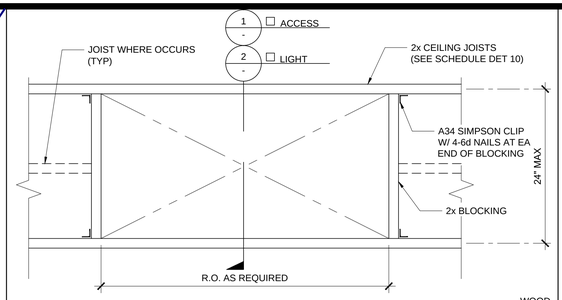
PHASE III



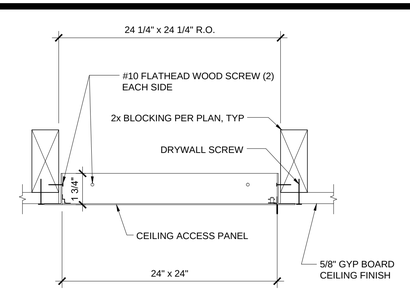
RECESS STEEL CEILING JOIST FRAMING PLAN SCALE : 1" = 1'-0" 16



CEILING ACCESS PANEL - STEEL SCALE : 3" = 1'-0" 11

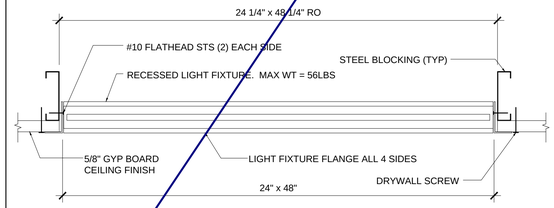


RECESS WOOD CEILING JOIST FRAMING PLAN SCALE : 1" = 1'-0" 6



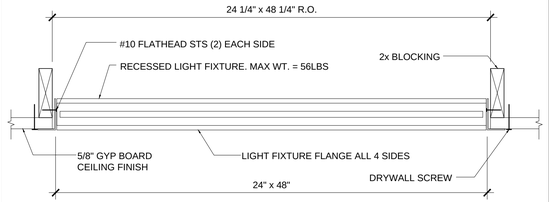
CEILING ACCESS PANEL SCALE : 3" = 1'-0" 1

NOT USED 17

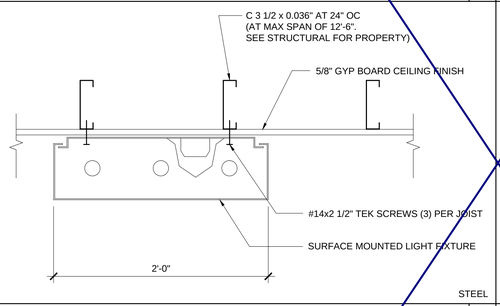


RECESSED LIGHT FIXTURE AT HARD LID SCALE : 1 1/2" = 1'-0" 12

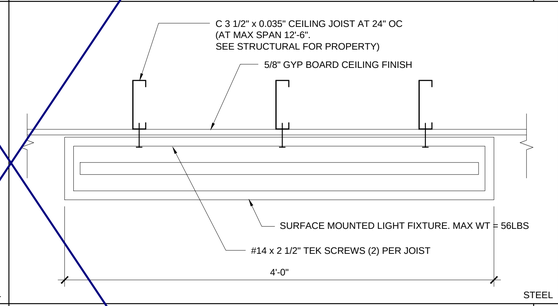
NOT USED 7



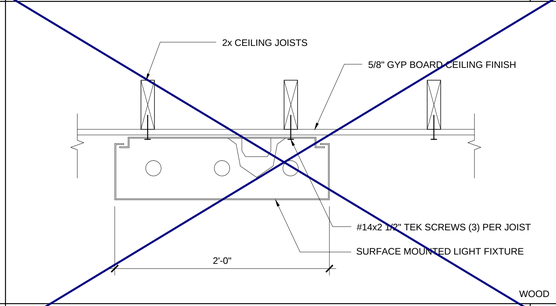
RECESSED LIGHT FIXTURE AT HARD LID SCALE : 1 1/2" = 1'-0" 2



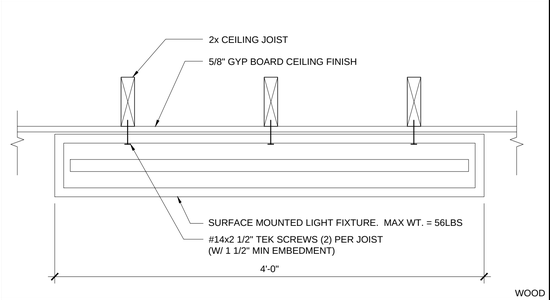
SURFACE MOUNTED LIGHT - PARALLEL JOISTS SCALE : 1 1/2" = 1'-0" 18



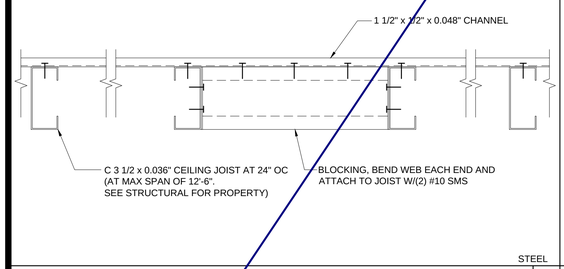
SURFACE MOUNTED LIGHT-PERPENDICULAR JOISTS SCALE : 1 1/2" = 1'-0" 13



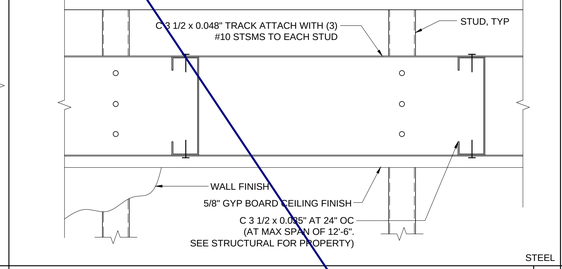
SURFACE MOUNTED LIGHT - PARALLEL JOISTS SCALE : 1 1/2" = 1'-0" 8



SURFACE MOUNTED LIGHT-PERPENDICULAR JOISTS SCALE : 1 1/2" = 1'-0" 3

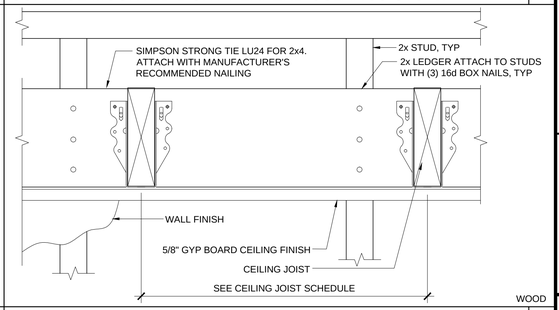


CEILING JOIST BLOCKING - STEEL SCALE : 3" = 1'-0" 19

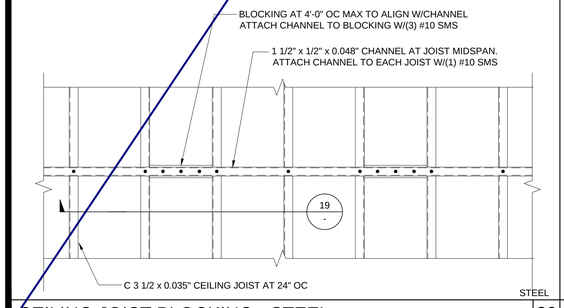


HARD LID CEILING CONNECTION - STEEL SCALE : 3" = 1'-0" 14

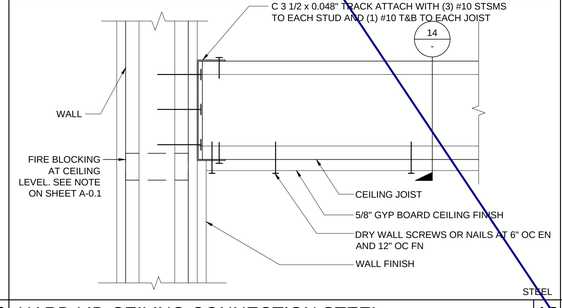
NOT USED 9



HARD LID CEILING CONNECTION SCALE : 3" = 1'-0" 4



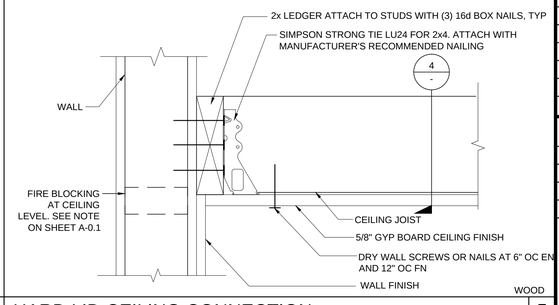
CEILING JOIST BLOCKING - STEEL SCALE : 1" = 1'-0" 20



HARD LID CEILING CONNECTION STEEL SCALE : 3" = 1'-0" 15

2X4 JOIST TABLE - MAX SPAN					
SPACING	HEMFIR STUD	HEMFIR NO 2	HEMFIR NO 1	DFL STUD	DFL NO. 2
12" OC	11' - 3"	11' - 7"	12' - 2"	11' - 10"	12' - 5"
16" OC	10' - 3"	10' - 6"	11' - 0"	10' - 9"	11' - 3"
24" OC	8' - 11"	9' - 2"	9' - 8"	9' - 5"	9' - 10"

WOOD CEILING JOIST SCHEDULE SCALE : NTS 10



HARD LID CEILING CONNECTION SCALE : 3" = 1'-0" 5

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DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CEILING DETAILS
HARD LID

REGISTERED PROFESSIONAL ENGINEER
JOHN W STANLEY
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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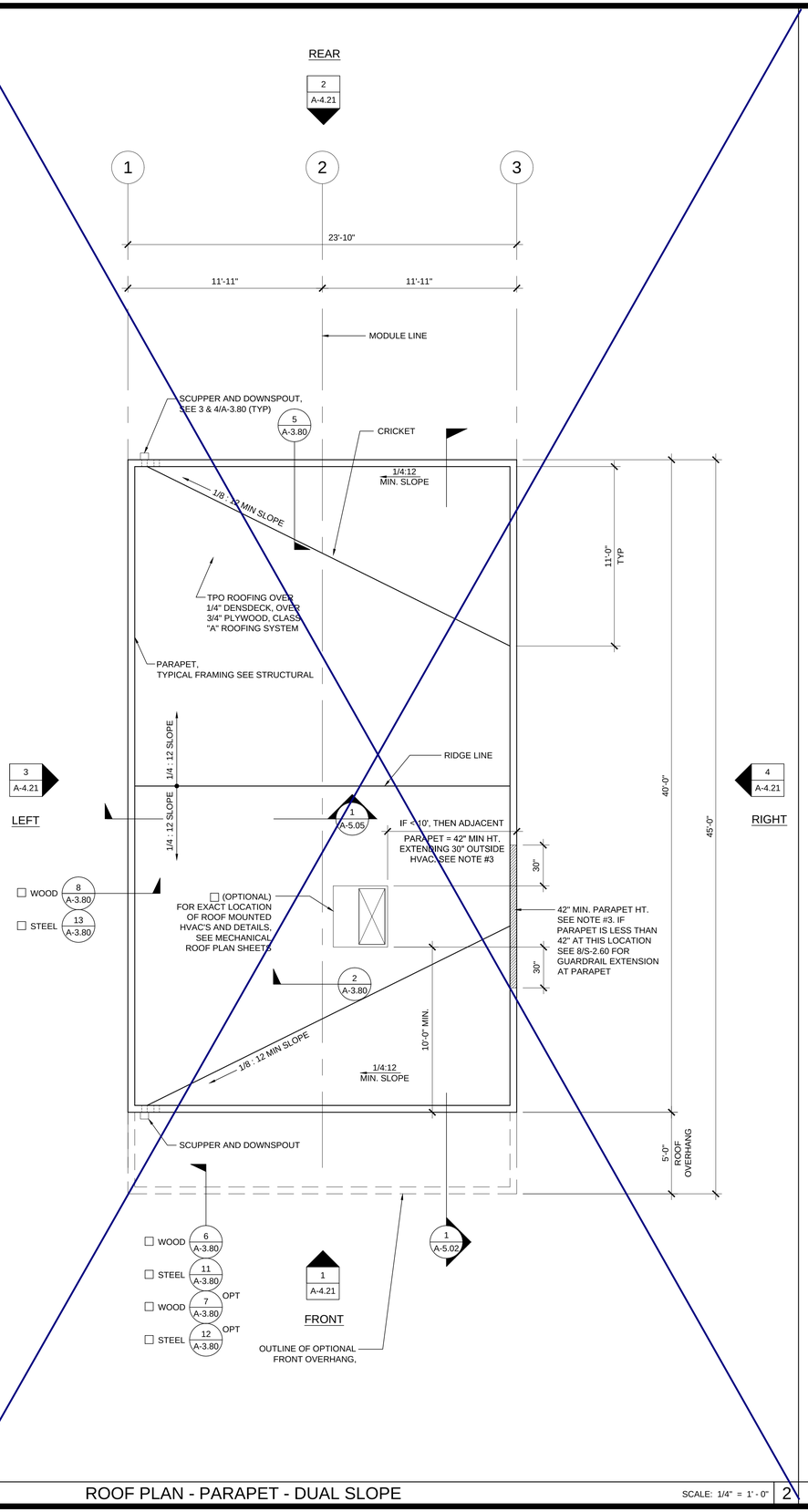
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER
A-2.21

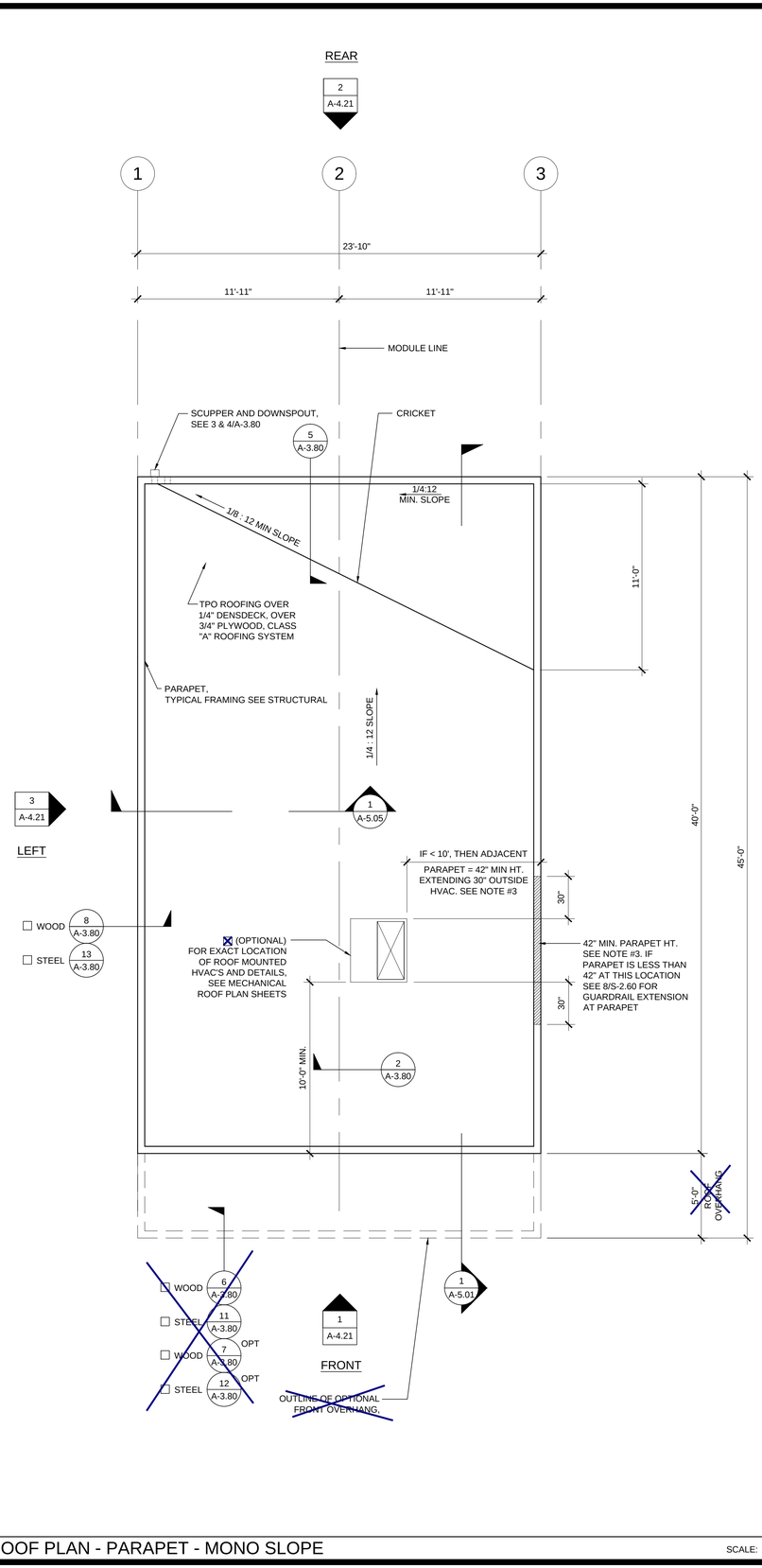
PHASE III



ROOF PLAN - PARAPET - DUAL SLOPE

SCALE: 1/4" = 1' - 0"

2



ROOF PLAN - PARAPET - MONO SLOPE

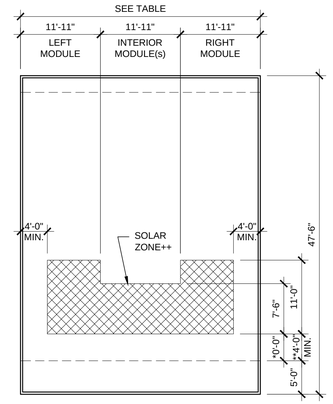
SCALE: 1/4" = 1' - 0"

1

NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC-718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
3. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES. PER CBC 2016 SECTIONS 1015.6 & 1015.7. OR PROVIDE 42" MIN. PARAPET OR GUARDRAIL.

SOLAR ZONE



KEYPLAN
(w/ PARAPET)

* w/ OVERHANG
** w/o OVERHANG

SOLAR ZONE CALCULATION TABLE		
BUILDING SIZE	REQUIRED SOLAR ZONE	PROVIDED SOLAR ZONE
24'-0" x 40'-0"	172 SF	178 SF
36'-0" x 40'-0"	258 SF	267 SF
48'-0" x 40'-0"	344 SF	356 SF
60'-0" x 40'-0"	430 SF	445 SF
72'-0" x 40'-0"	516 SF	534 SF
84'-0" x 40'-0"	602 SF	623 SF
96'-0" x 40'-0"	688 SF	712 SF
108'-0" x 40'-0"	774 SF	801 SF
120'-0" x 40'-0"	860 SF	890 SF
ROOF AREA PER MODULE	=	567 SF
REQUIRED SOLAR ZONE	=	86 SF
PROVIDED SOLAR ZONE	=	89 SF

++NOTE: ACTUAL SOLAR ZONE LOCATION AND SIZE MAY VARY. MINIMUM ZONE AREA SHALL BE PER THE TABLE ABOVE.

NOTE:
IF PARAPET IS USED & HIGHER THAN 18", END WALLS MUST BE 2x6 @ 24" O.C. UP TO A MAX PARAPET OF 48"

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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF PLAN
24'x40' - PARAPET ROOF
MONO OR DUAL SLOPE

REGISTERED PROFESSIONAL ENGINEER
JOHN W STANLEY
24475
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

FILE NUMBER: 33-SILVER

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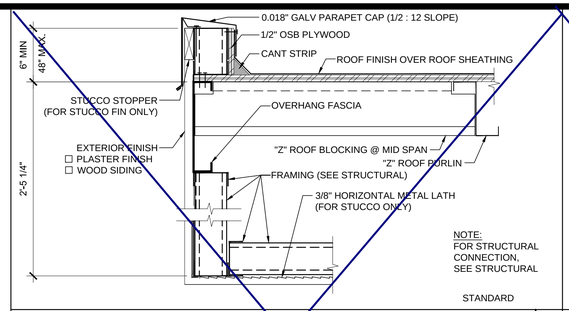
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

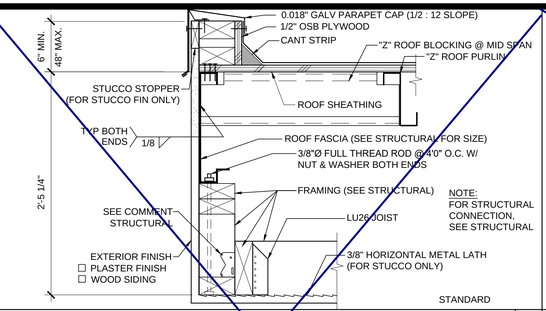
P.C. SHEET NUMBER

A-3.31

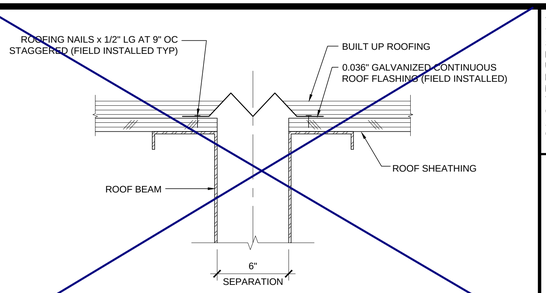
PHASE III



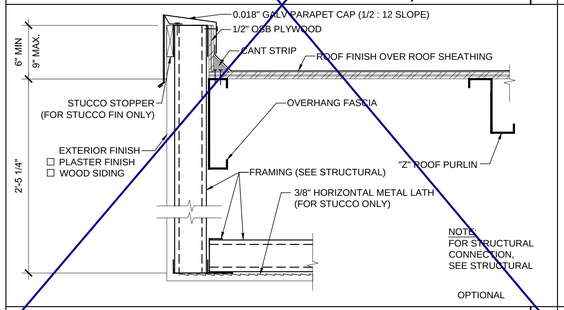
FRONT PARAPET SECTION (STEEL FRAME) SCALE : 1 1/2" = 1'-0" | 11



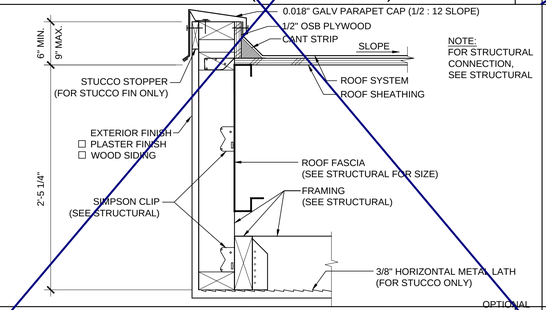
FRONT PARAPET SECTION (WOOD FRAME) SCALE: 1 1/2"=1'-0" | 6



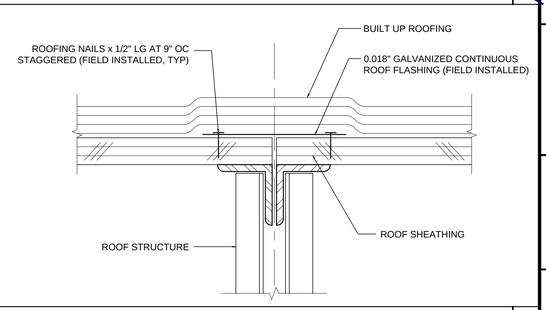
SEPARATION AT ROOF SCALE : 3"=1'-0" | 1



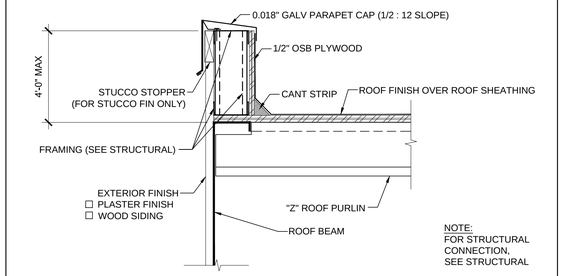
FRONT PARAPET SECTION (STEEL FRAME) SCALE : 1 1/2" = 1'-0" | 12



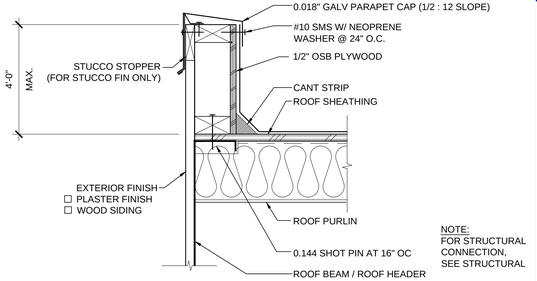
FRONT PARAPET SECTION (WOOD FRAME) SCALE: 1 1/2"=1'-0" | 7



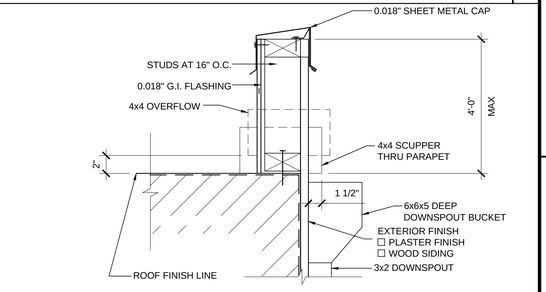
MODULE LINE CLOSURE SCALE : 6"=1'-0" | 2



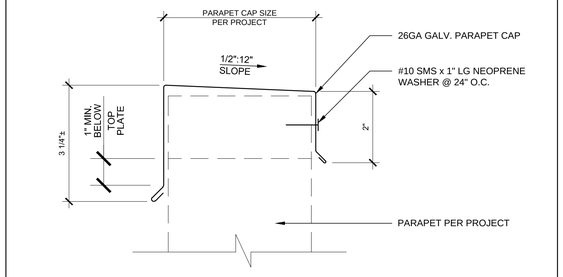
SIDEWALL PARAPET SECTION (STEEL FRAME) SCALE : 1 1/2" = 1'-0" | 13



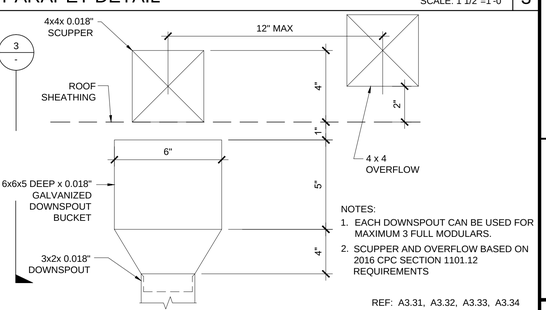
SIDEWALL PARAPET SECTION (WOOD FRAME) SCALE: 1 1/2" = 1'-0" | 8



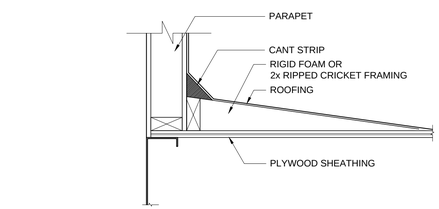
PARAPET DETAIL SCALE: 1 1/2"=1'-0" | 3



PARAPET CAP DETAIL SCALE : 1 1/2" = 1'-0" | 15

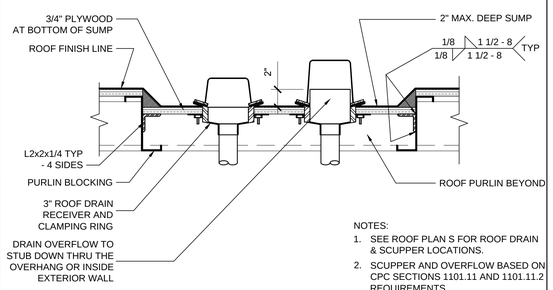


SCUPPER DETAIL AT PARAPET SCALE : 3"=1'-0" | 4

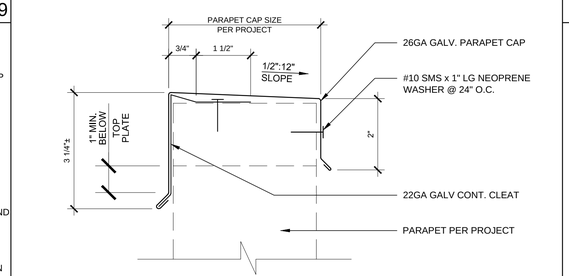


REF: A3.31, A3.32, A3.33, A3.34

SECTION AT CRICKET SCALE : 1 1/2" = 1'-0" | 5



ROOF DRAIN DETAIL SCALE : 1 1/2" = 1'-0" | 20



PARAPET CAP DETAIL SCALE : 1 1/2" = 1'-0" | 15

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SILVER CREE

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Building for the Next Generation

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF DETAILS PARAPET

REGISTERED PROFESSIONAL ENGINEER
JOHN W STANLEY
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
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DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

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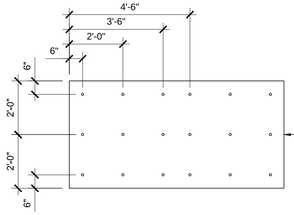
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER

A-3.80

PHASE III



NOTE:
"DENS-DECK" OVERLAYMENT w/ ALL JOINTS MUST BE STAGGERED A MINIMUM OF 8" FROM THE PLYWOOD JOINT

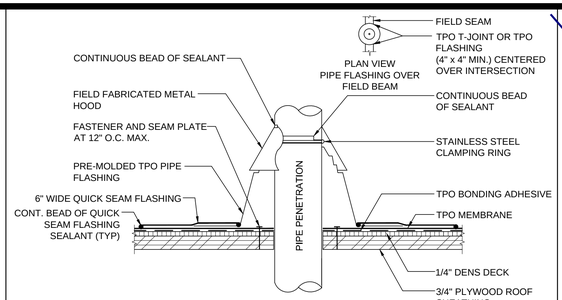
NOTE:
NAIL ALL /4/ CORNERS OF EACH SHEET OF DENS-DECK FOR TEMP PLACEMENT

(18) 1.5/8" WS FASTENERS W/ WASHER PER 4'x8' SHEET (TYP)

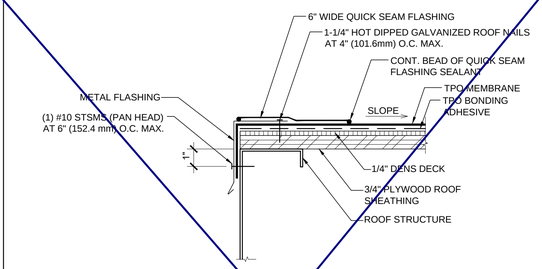
18 FASTENERS PER BOARD

FMRC 1-90 WIND UPLIFT / (18) FASTENERS PER 4' x 8' BOARD

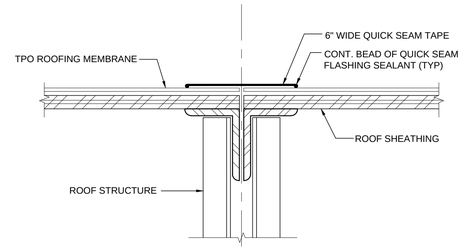
TYP 4x8 SHEET FASTENER LAYOUT — SCALE: NTS — 16



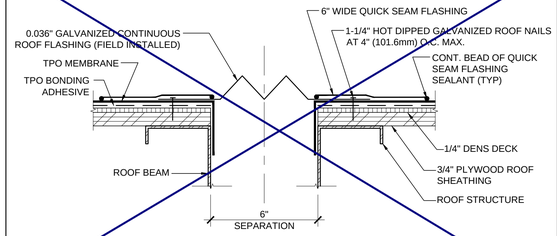
DETAIL AT PIPE FLASHING — SCALE: 3"=1'-0" — 11



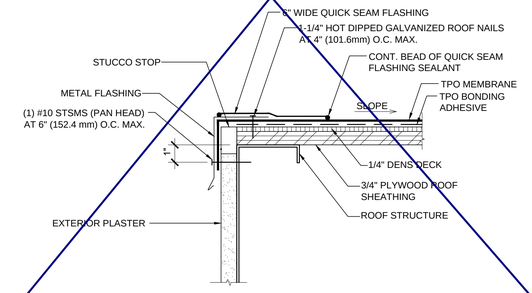
ROOF AT HIGH END — SCALE: 3"=1'-0" — 6



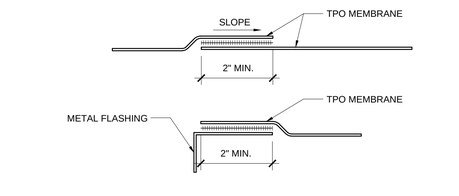
TPO ROOF AT MODLINE — SCALE : 3"=1'-0" — 1



SEPARATION AT ROOF — SCALE: 3"=1'-0" — 12

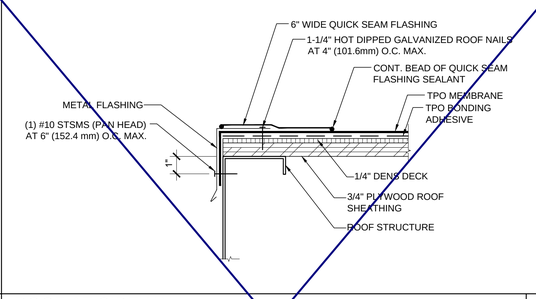


ROOF AT HIGH END — SCALE: 3"=1'-0" — 7

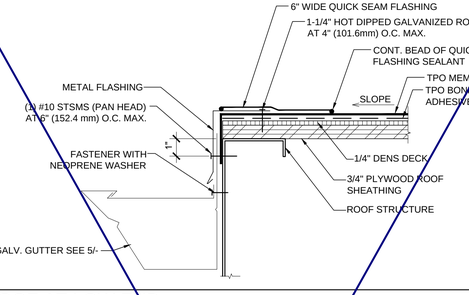


TPO LAP SPLICE — SCALE: 6" = 1'-0" — 2

ROOF AT SIDEWALL — SCALE: 3" = 1'-0" — 13

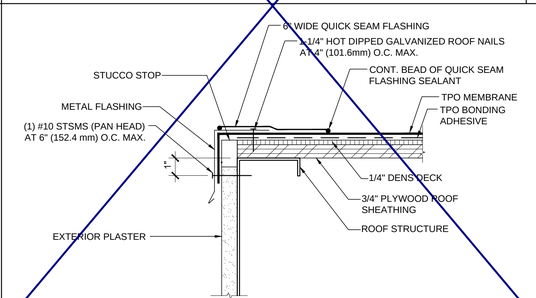


ROOF AT HIGH END — SCALE: 3"=1'-0" — 8

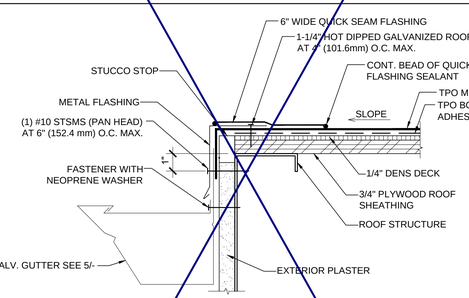


ROOF AT LOW END — SCALE: 3"=1'-0" — 3

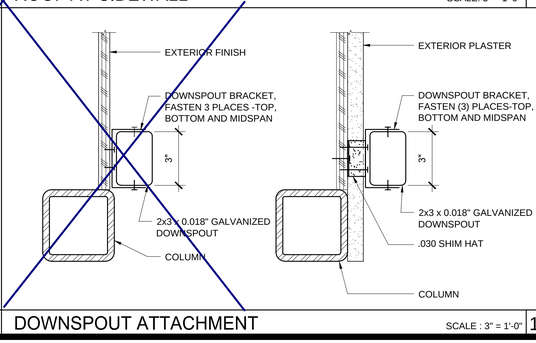
ROOF AT SIDEWALL — SCALE: 3" = 1'-0" — 14



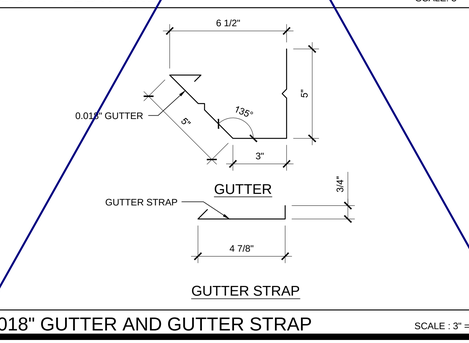
ROOF AT SIDEWALL — SCALE: 3" = 1'-0" — 9



ROOF AT LOW END — SCALE: 3" = 1'-0" — 4



DOWNSPOUT ATTACHMENT — SCALE : 3" = 1'-0" — 15



0.018" GUTTER AND GUTTER STRAP — SCALE : 3" = 1'-0" — 10

GUTTER STRAP — SCALE : 3" = 1'-0" — 5

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOFING DETAILS
TPO ROOF

REGISTERED PROFESSIONAL ENGINEER
JOHN W STANLEY
24475
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

1	
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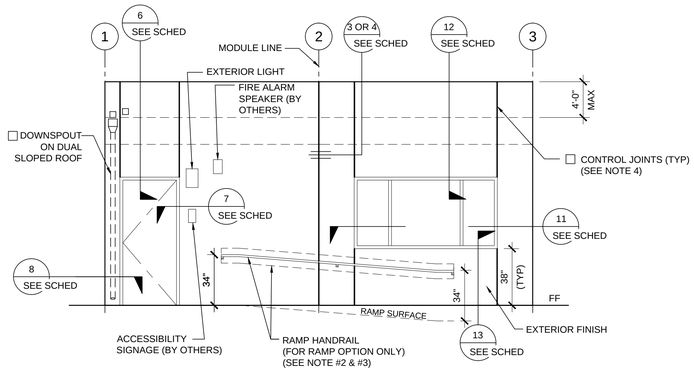
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

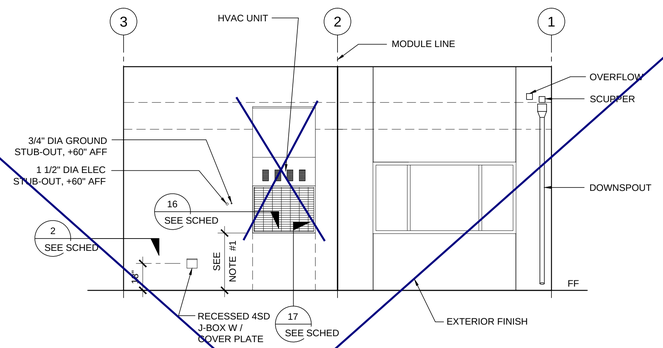
P.C. SHEET NUMBER
A-3.90

PHASE III



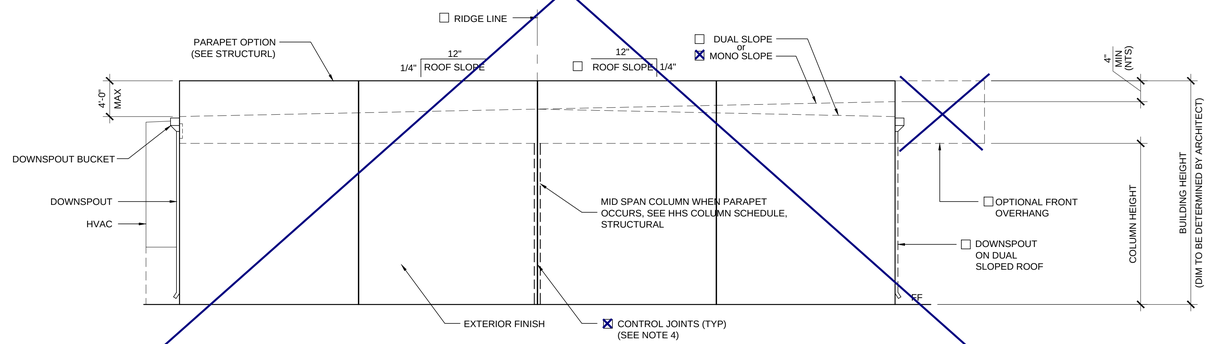
EXTERIOR ELEVATIONS - FRONT - MONO OR DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 1



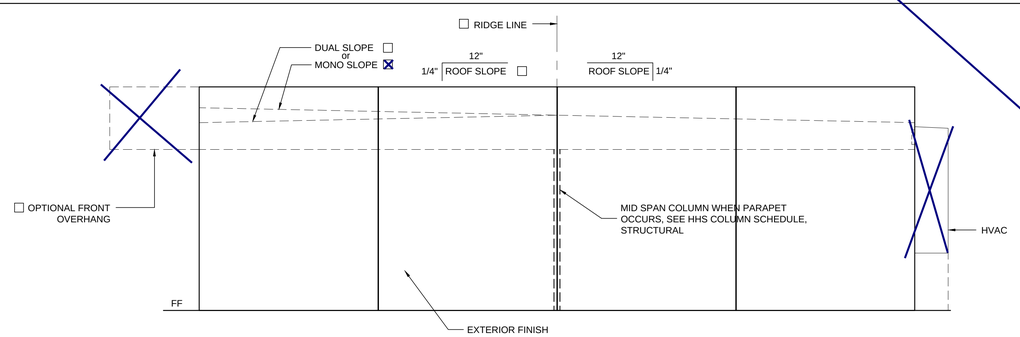
EXTERIOR ELEVATIONS - REAR - MONO OR DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 2



EXTERIOR ELEVATIONS - LEFT - MONO OR DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 3



EXTERIOR ELEVATIONS - RIGHT - MONO OR DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 4

NOTES (EXTERIOR ELEVATION)

1. PROVIDE PROTECTION RAIL AROUND HVAC UNIT(S) IF LOCATED IN A PEDESTRIAN WAY IF THE HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" (NIC). REFERENCE TO DET. # 2/A5.81 FOR WOOD STUDS, # 17/A5.81 FOR STEEL STUDS
2. RAMP (WHERE OCCURS), NOT SHOWN FOR CLARITY.
3. WALL BEYOND HANDRAIL SHALL NOT HAVE ANY SHARP OR ABRASIVE SURFACE ADJACENT TO HANDRAILS. (GRIND SMOOTH ALL METAL RAILING CONNECTIONS - SMOOTH SURFACE TO EXTEND 18" ABOVE HANDRAIL)
4. FOR PLASTER ONLY, PROVIDE CONTROL JOINT AT EACH MODLINE, ON END WALLS, 10'-0" OC AT SIDE WALLS, AND / OR ABOVE AND BELOW OPENINGS. WHERE FIRE RATED WALLS ARE REQUIRED, MATERIALS AND METHODS OF CONSTRUCTION USED TO PROTECT JOINTS WILL COMPLY WITH CBC SECTION 703.2 AND 705.
5. EXTERIOR PROJECTIONS SHALL COMPLY W/ SECTION 705 AND 1406, 2016 CBC
6. PROVIDE AN OFFSET RAMP (PER SHEET R-1.02) WHEN A RAMP IS REQUIRED ADJACENT TO A STUCCO WALL

DETAIL SCHEDULE

FINISH:	SHEET #:
☒ SIDING OVER WOOD STUDS	A-5.50
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

FIRE PROTECTION:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

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SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

EXTERIOR ELEVATION
24' X 40' PARAPET
MONO / DUAL SLOPE

REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 24475 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER

A-4.21

PHASE III

DETAIL SCHEDULE

FINISH:	SHEET #:
☐ SIDING OVER WOOD STUDS	A-5.50
☒ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

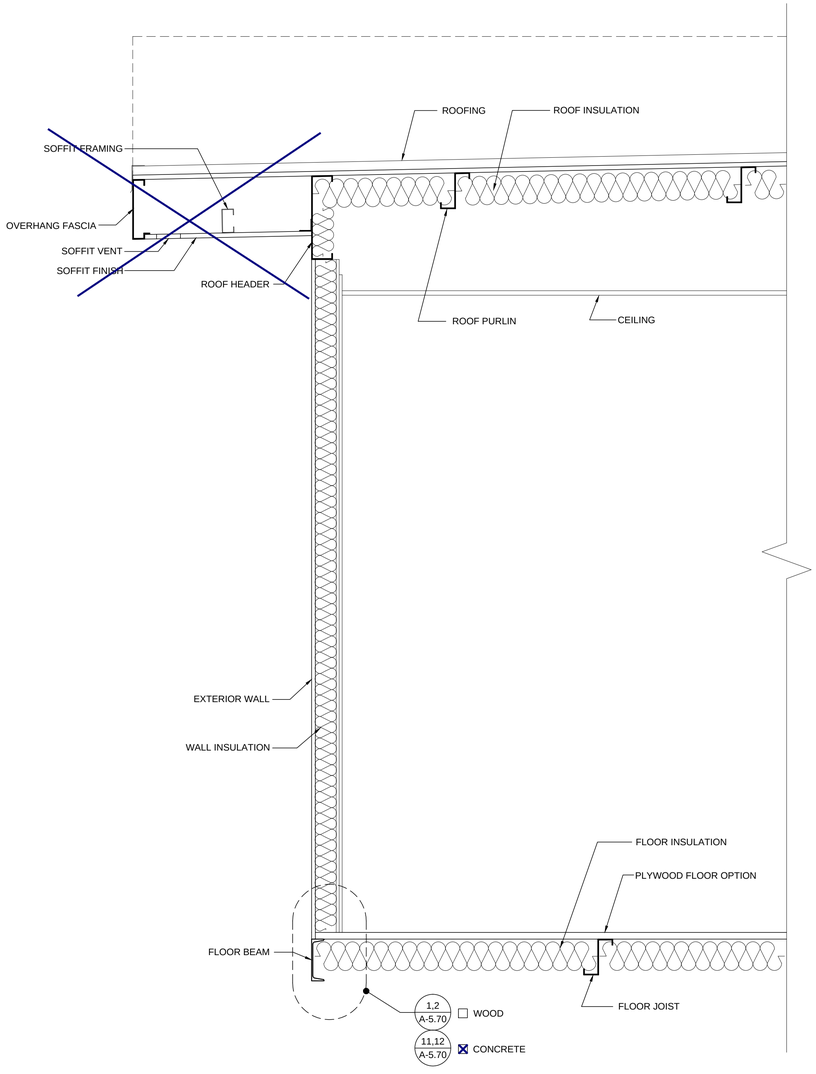
FINISH:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

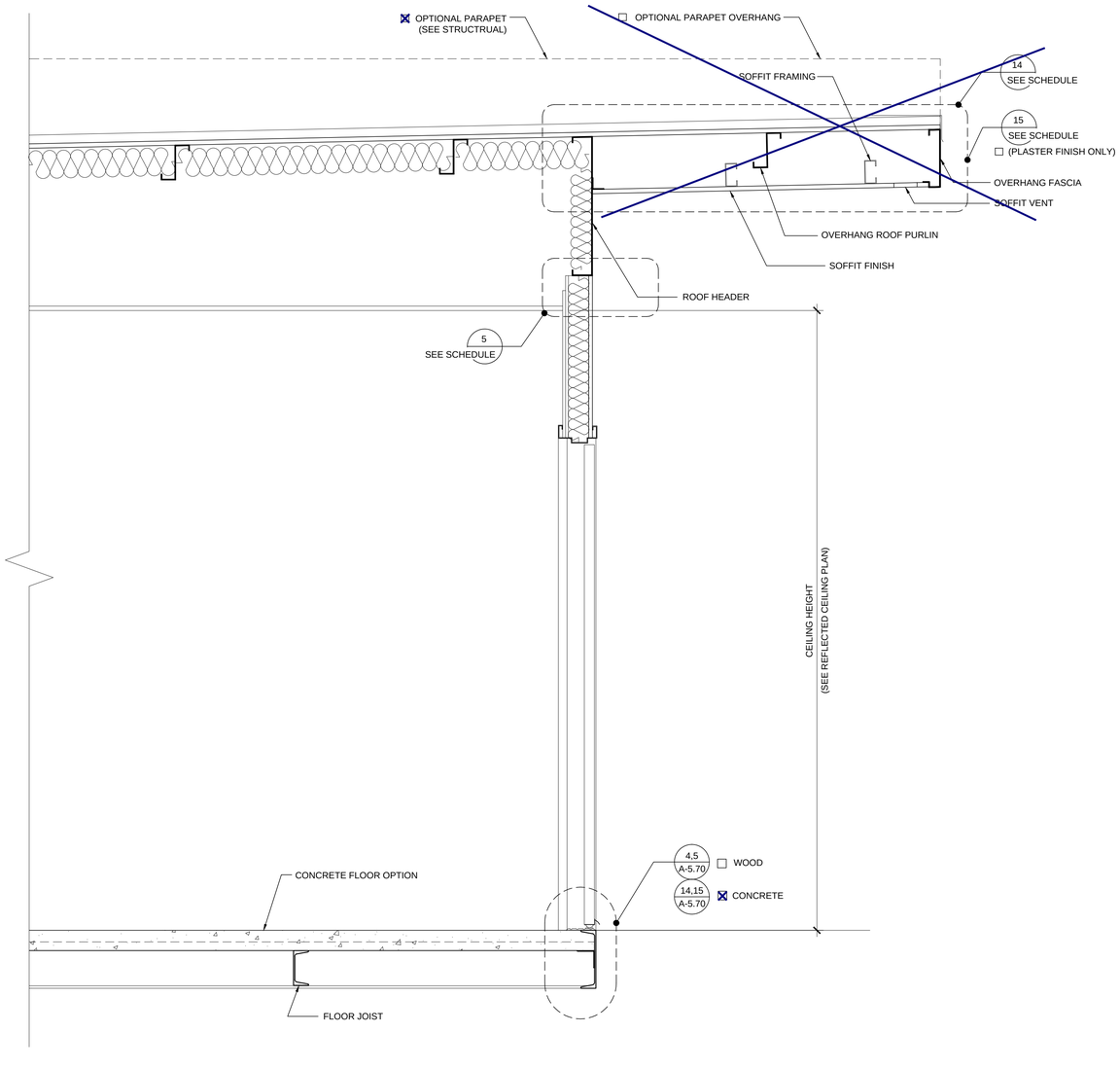
FLOOR OPTION

☐ WOOD FLOOR
☒ CONCRETE FLOOR

NOTES

MOISTURE PROTECTION AND CAULKING:
GENERAL: FURNISH AND INSTALL ALL CAULKING AS REQUIRED TO PROVIDE A WEATHERTIGHT BUILDING.
MATERIALS: SEALANT SHALL BE AN ACRYLIC LATEX OR SILICONE CAULKING.
APPLICATIONS: AT JOINTS WHERE SHOWN, APPLY SEALANT AS FOLLOWS - JOINTS SHALL BE CLEAN, DRY, AND FREE FROM DUST, WAX, AND FOREIGN MATERIALS, SEALANT SHALL BE APPLIED WITH A GUN IN A STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS, COMPLETELY FILL THE JOINT AND FIRMLY TOOL AGAINST THE BACKING, MAKING A SMOOTH CONVEX BEAD.
COLOR: COLOR OF MATERIAL SHALL MATCH THAT OF ADJACENT FINISHED SURFACES.





BUILDING SECTION

SCALE: 1" = 1' - 0" | 1

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DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:
CROSS SECTION
MONO SLOPE
0.018" OR TPO ROOF
OR PARAPET

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24175
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2018 IDC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER
A-5.01

PHASE III

DETAIL SCHEDULE

FINISH:	SHEET #:
☐ SIDING OVER WOOD STUDS	A-5.50
☒ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
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☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

FLOOR OPTION

- ☐ WOOD FLOOR
- ☒ CONCRETE FLOOR

NOTES

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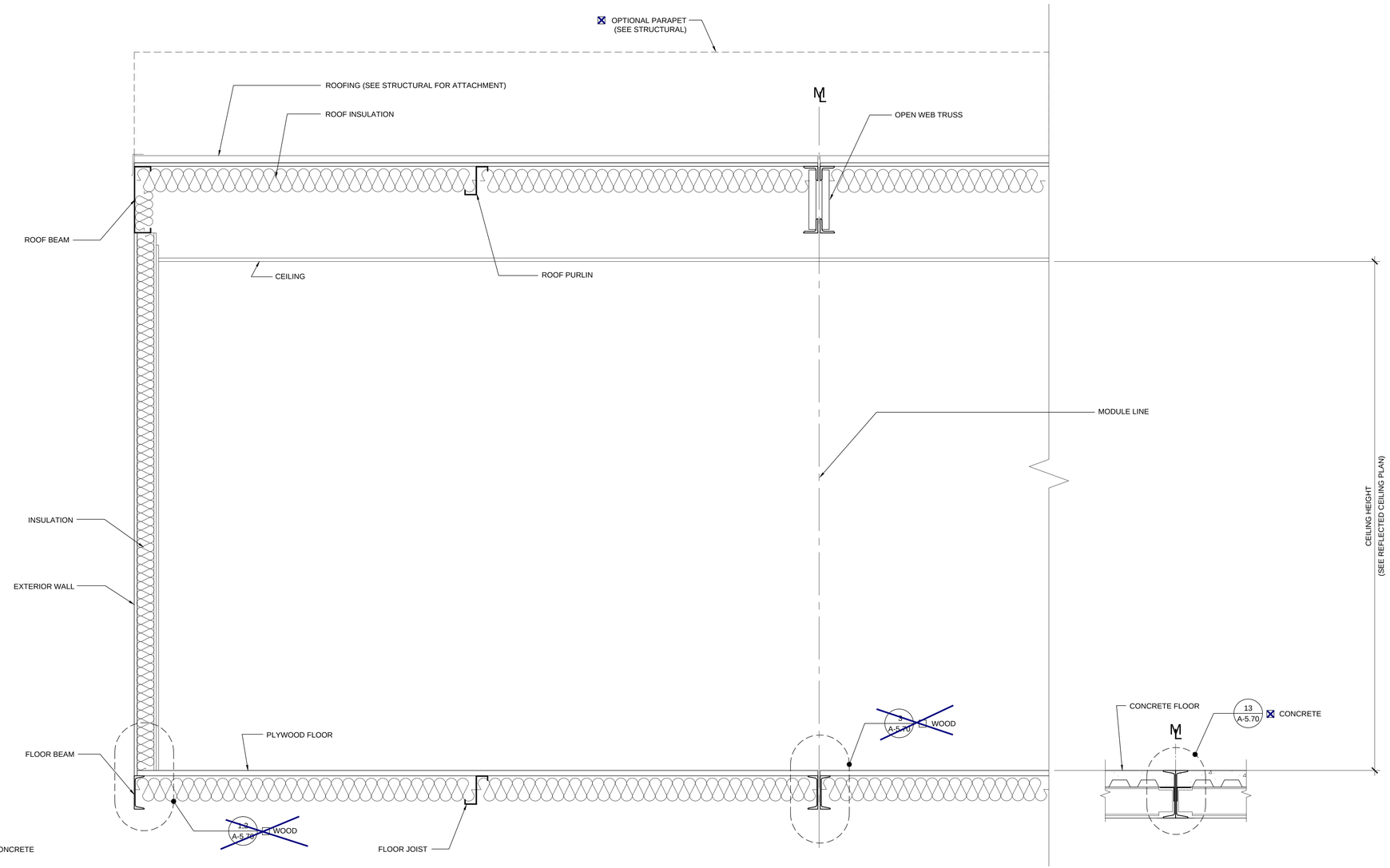

CONCRETE FLOOR OPTION

WOOD FLOOR OPTION

CONCRETE FLOOR OPTION

BUILDING SECTION

SCALE: 1" = 1' - 0"

1

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SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CROSS SECTION

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
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FILE NUMBER: 33-SILVER
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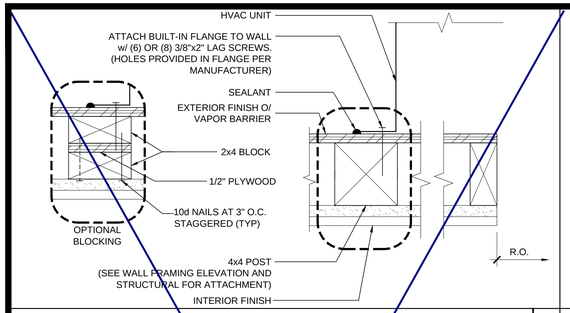
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER

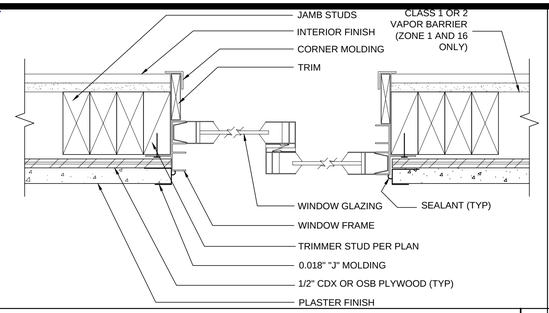
A-5.05

PHASE III



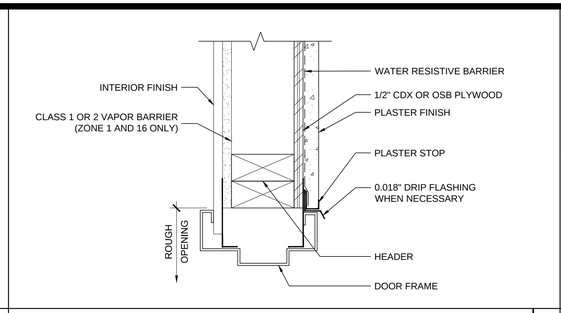
HVAC MOUNT AT JAMBS

SCALE : 3"=1'-0" | 16



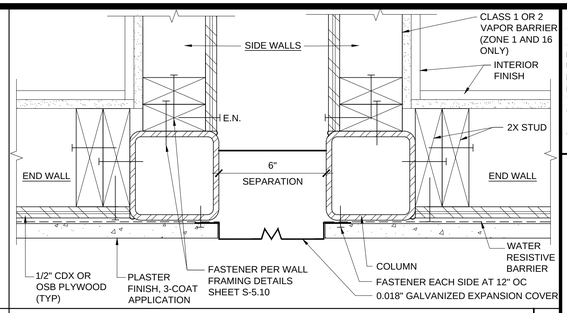
WINDOW SECTION AT JAMBS

SCALE : 3"=1'-0" | 11



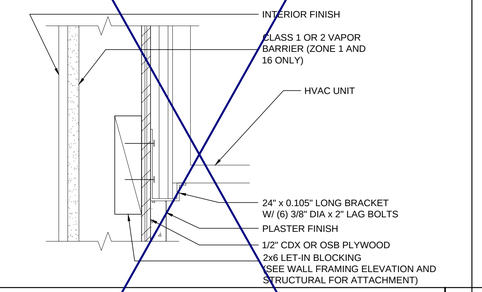
EXTERIOR DOOR HEADER

SCALE : 3"=1'-0" | 6



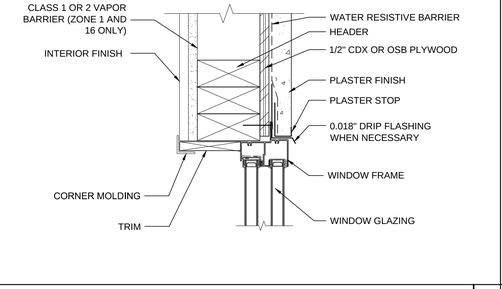
CLOSURE BETWEEN BUILDINGS

SCALE : 3"=1'-0" | 1



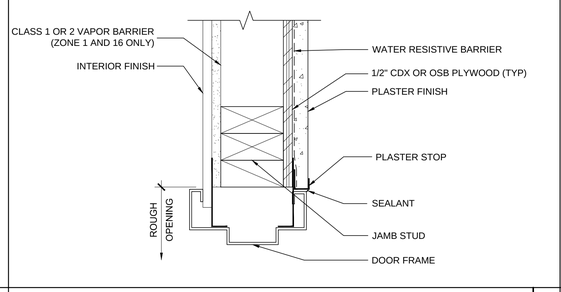
HVAC UNIT AT BOTTOM

SCALE : 3"=1'-0" | 17



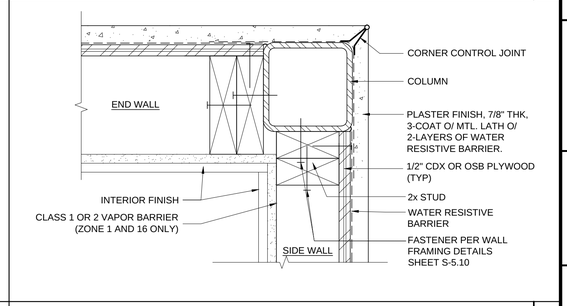
WINDOW HEADER

SCALE : 3"=1'-0" | 12



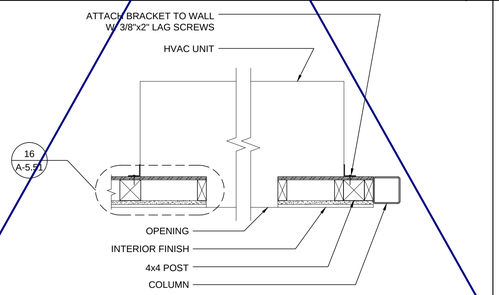
EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 7



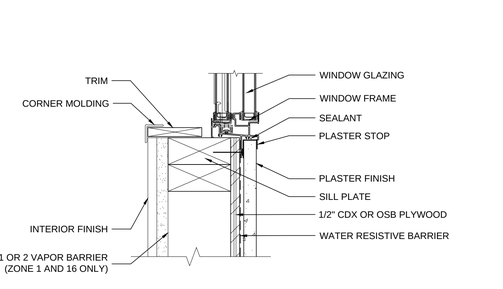
COLUMN AT CORNER

SCALE : 3"=1'-0" | 2



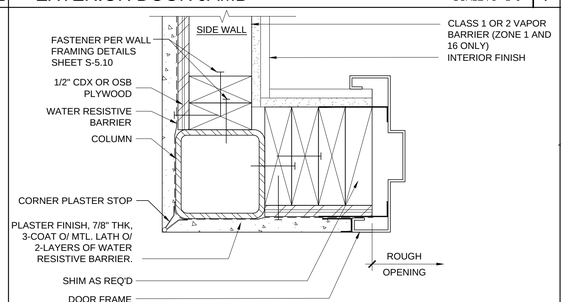
HVAC UNIT (PLAN)

SCALE : 1"=1'-0" | 18



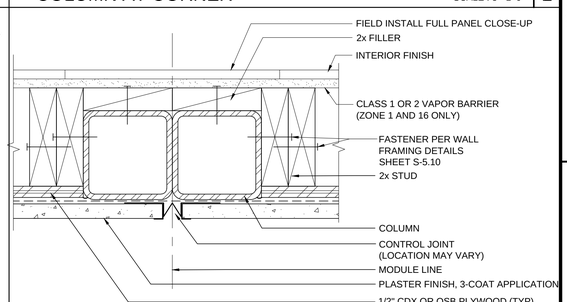
WINDOW SILL

SCALE : 3"=1'-0" | 13



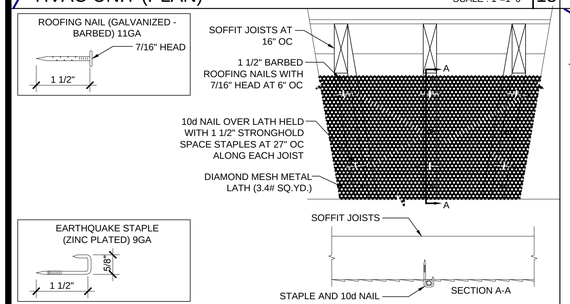
EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 8



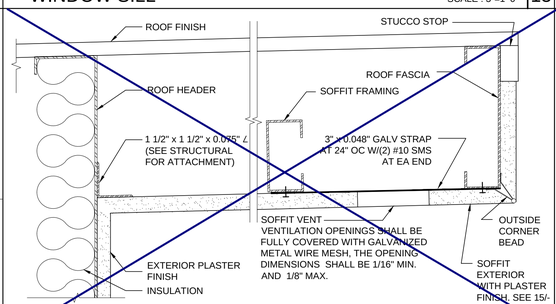
COLUMN AT MODULE LINE (FULL PANEL CLOSE-UP)

SCALE : 3"=1'-0" | 3



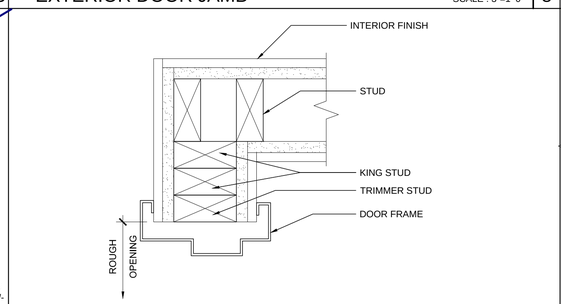
METAL LATH ATTACHMENT TO WOOD JOIST

SCALE : 1 1/2" = 1'-0" | 19



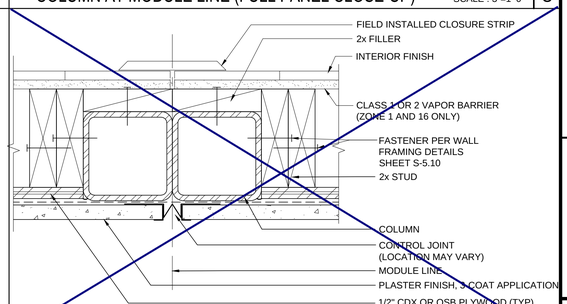
SOFFIT AT ROOF HEADER WITH VENT

SCALE : 3" = 1'-0" | 14



INTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 9



COLUMN AT MODULE LINE (FULL PANEL CLOSE-UP)

SCALE : 3"=1'-0" | 4

NOT USED

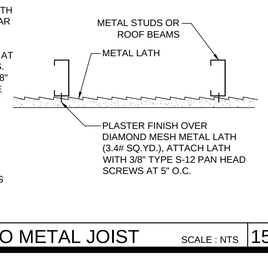
20

1. METAL LATH SHALL BE ATTACHED TO METAL SUPPORTS WITH NOT LESS #10 U.S. GAUGE THE WIRE SPACED NOT MORE THAN 6" APART OR WITH APPROVED EQUIVALENT ATTACHMENTS.

2. METAL LATH OR WIRE FABRIC SHALL BE APPLIED WITH THE LONG DIMENSION OF THE SHEETS PERPENDICULAR TO SUPPORTS.

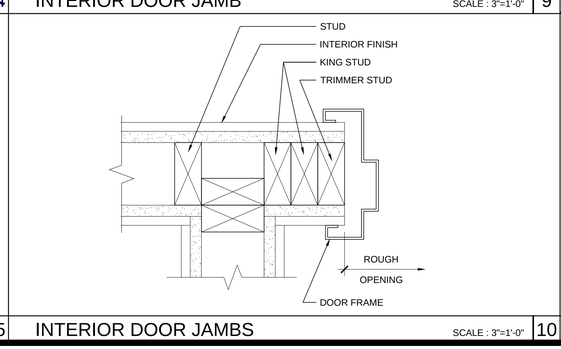
3. METAL LATH SHALL BE LAPPED NOT LESS THAN 1/2" AT SIDES AND 1" AT ENDS. WIRE FABRIC AT SIDES & ENDS. BUT NOT LESS THAN 1", AND METAL GREATER THAN 1/8" SHALL BE LAPPED AT THE SIDES BY NESTING OUTSIDE HOLE. WHERE EDGE LAPS OF SHEETS DO NOT OCCUR OVER SUPPORTS. THEY SHALL BE SECURELY TIED TOGETHER WITH NOT LESS THAN 18 GA. WIRE

4. CORNERITE SHALL BE INSTALLED IN ALL INTERNAL CORNERS TO RETAIN POSITION DURING PLASTERING CORNERITE MAY BE OMITTED WHEN LATH IS CONTINUOUS OR WHEN PLASTER IN NOT CONTINUOUS FROM ONE PLANE TO AN ADJACENT PLAN.



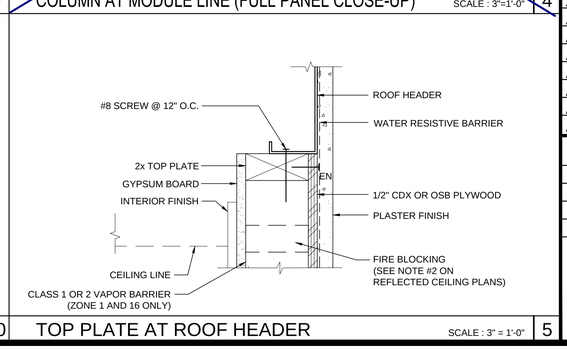
METAL LATH ATTACHMENT TO METAL JOIST

SCALE : NTS | 15



INTERIOR DOOR JAMBS

SCALE : 3"=1'-0" | 10



TOP PLATE AT ROOF HEADER

SCALE : 3" = 1'-0" | 5

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE...

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ARCHITECTURAL DETAILS
WOOD STUD - PLASTER

REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 24475 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE 2019 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

1	
2	
3	
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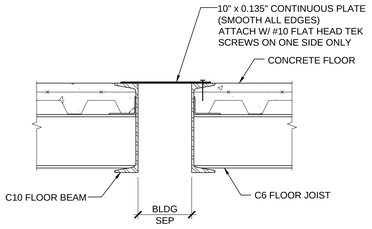
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

P.C. SHEET NUMBER

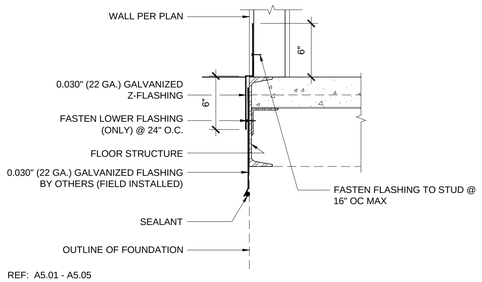
A-5.51

PHASE III



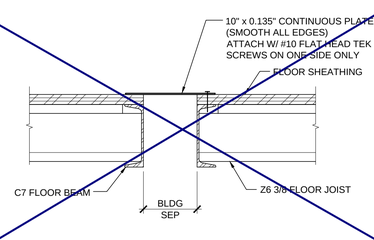
REF: A1.03

16 FLOOR AT SEPARATION (CONCRETE FLR) SCALE : 1 1/2"=1'-0"



REF: A5.01 - A5.05

11 SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0"



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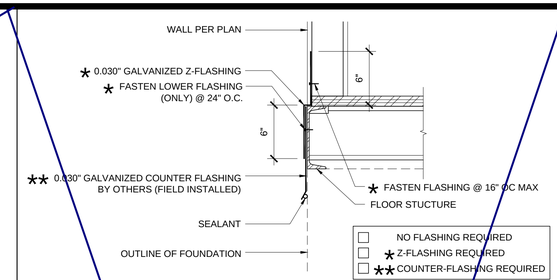
6 FLOOR AT SEPARATION (WOOD FLOOR) SCALE : 1 1/2"=1'-0"



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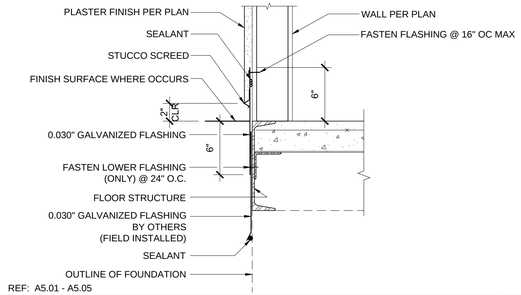
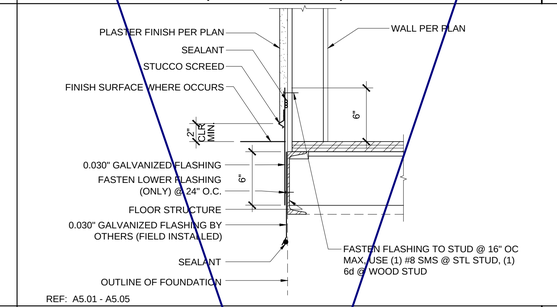


REF: A5.01 - A5.05

17

12 SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0"

7



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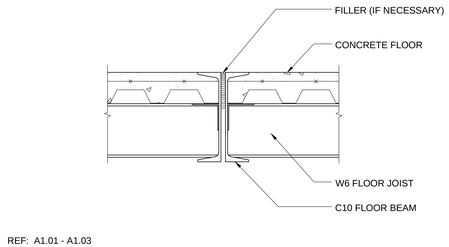
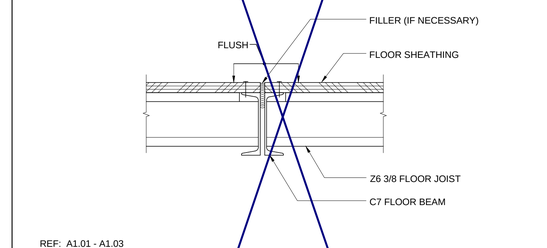


REF: A1.01 - A1.03

18 FLOOR AT MODLINE (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0"

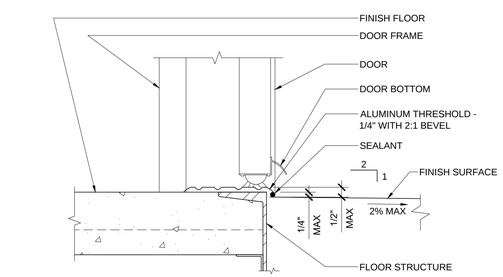
13



REF: A1.01 - A1.03

8 FLOOR AT MODLINE (WOOD FLOOR) SCALE : 1 1/2"=1'-0"

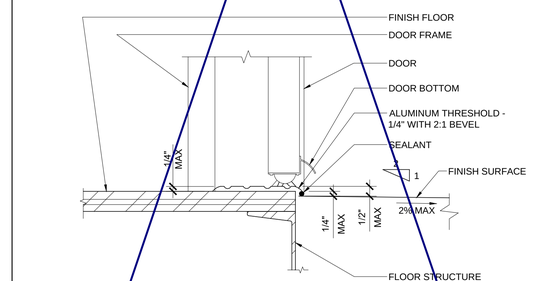
3



REF: A5.01 - A5.04

19 THRESHOLD SCALE : 3"=1'-0"

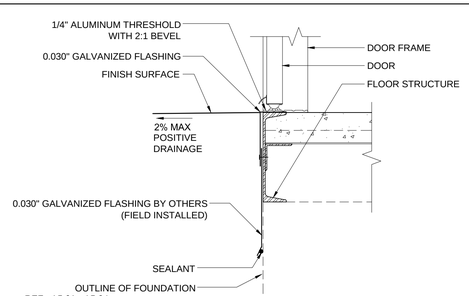
14



REF: A5.01 - A5.04

9 THRESHOLD SCALE : 3"=1'-0"

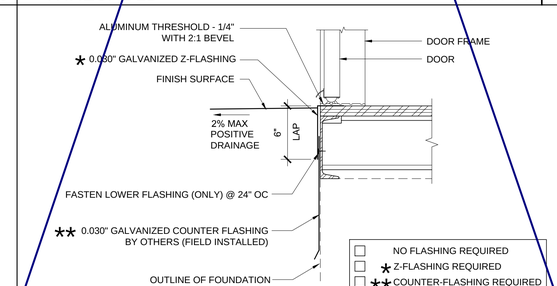
4



REF: A5.01 - A5.04

20 TYPICAL SILL AT FLOOR (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0"

15



REF: A5.01 - A5.04

10 TYPICAL SILL AT FLOOR (WOOD FLOOR) SCALE : 1 1/2"=1'-0"

5

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DATE: 03/27/2020

SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ARCHITECTURAL DETAILS

FLOOR

REGISTERED PROFESSIONAL ENGINEER
JOHN W STANLEY
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED
CODE: 2019 CBC

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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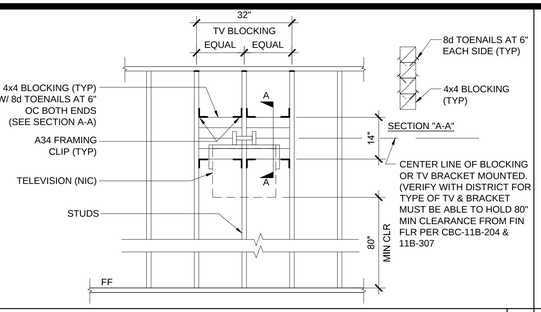
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

P.C. SHEET NUMBER

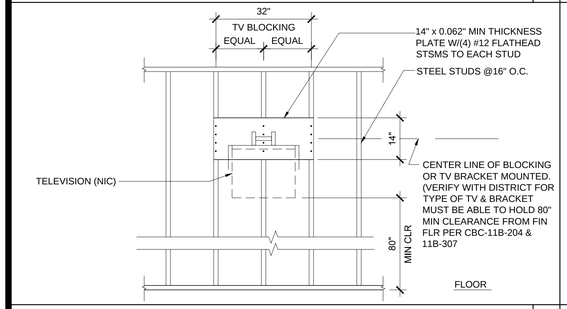
A-5.70

PHASE III



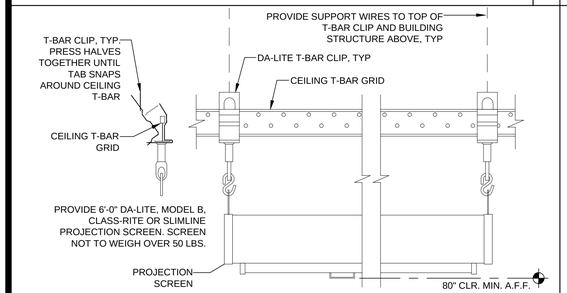
T.V. BLOCKING ATTACHMENT AT WOOD STUD

SCALE : 1/2" = 1'-0" | 16



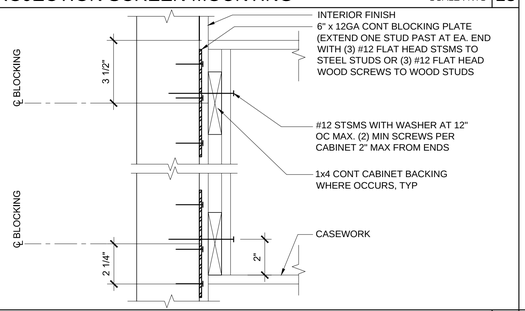
T.V. BLOCKING ATTACHMENT AT STEEL STUD

SCALE : 1/2" = 1'-0" | 17



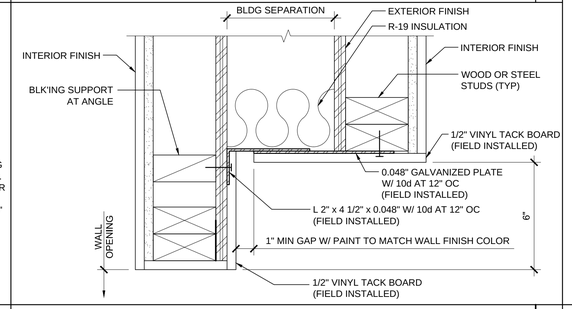
PROJECTION SCREEN MOUNTING

SCALE : NTS | 18



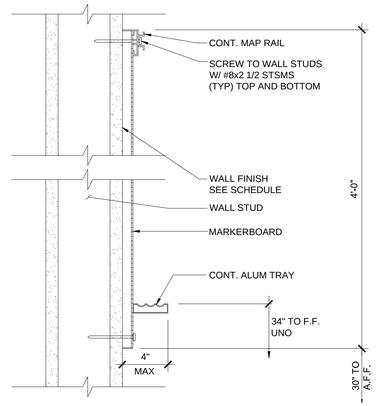
ATTACHMENT TO BLOCKING PLATE

SCALE : 3" = 1'-0" | 19



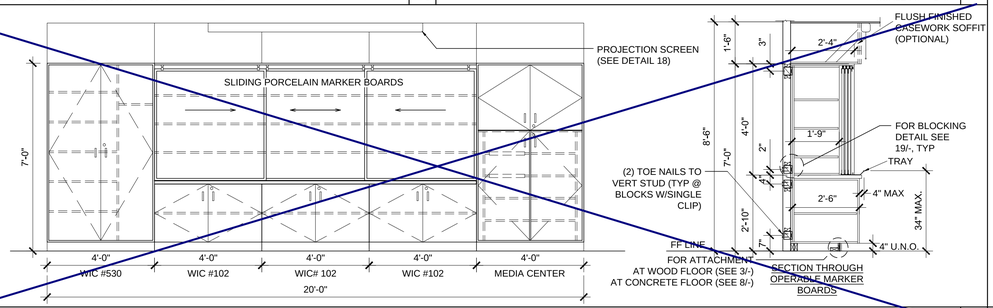
WALL OPENING AT HEADER AND JAMB

SCALE : 3"=1'-0" | 12



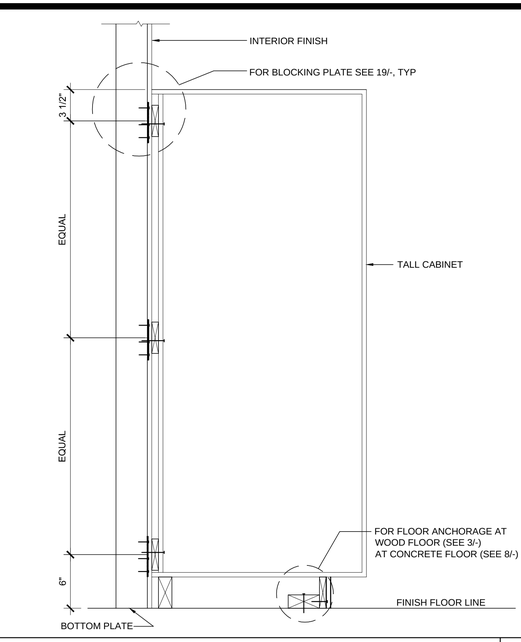
MARKER BOARD ATTACHMENT

SCALE : 3" = 1'-0" | 14



TEACHING WALL - ELEVATION / SECTION - OPTION

SCALE : 3/8" = 1'-0" | 15



TALL CABINET WALL ANCHORAGE

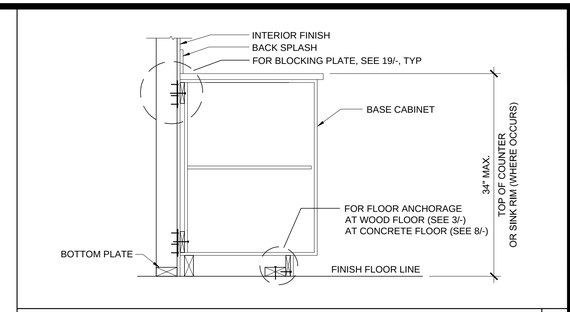
SCALE : 1 1/2" = 1'-0" | 7

ATTACHMENT TO BLOCKING - CONC. FLOOR

SCALE : 3" = 1'-0" | 8

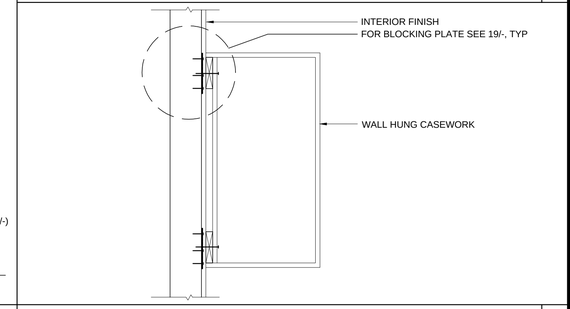
NOT USED

10



BASE CABINET WALL ANCHORAGE

SCALE : 1" = 1'-0" | 1



WALL HUNG ANCHORAGE CABINET

SCALE : 1 1/2" = 1'-0" | 2

ATTACHMENT TO BLOCKING - WOOD FLOOR

SCALE : 3" = 1'-0" | 3

NOT USED

4

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SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ARCHITECTURAL DETAILS

MISCELLANEOUS/OPTIONS

REGISTERED PROFESSIONAL ENGINEER
JOHN W STAHLMAN
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
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DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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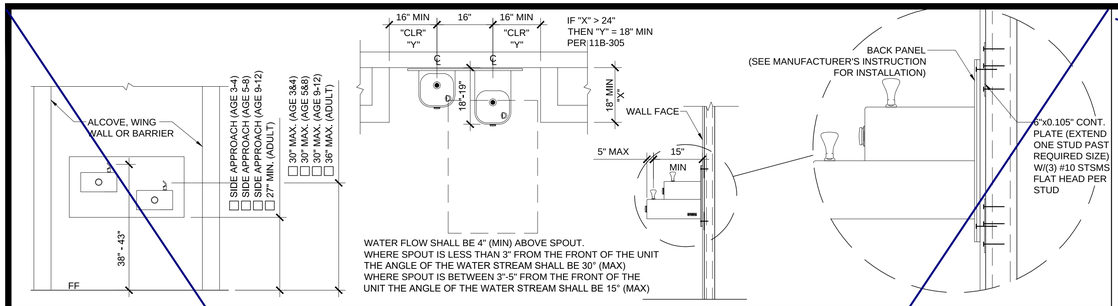
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER

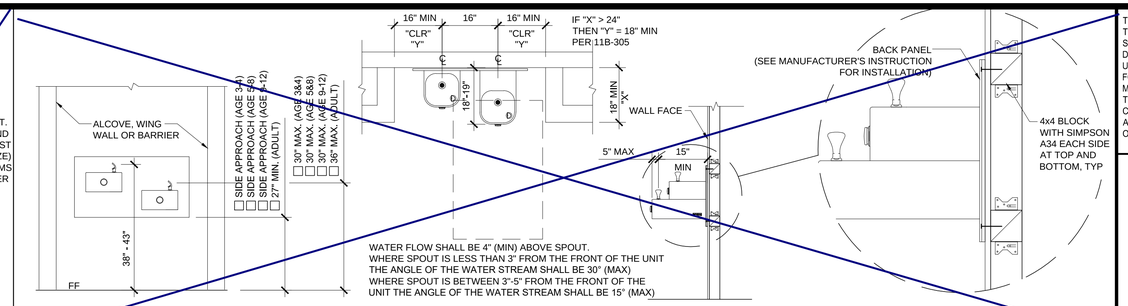
A-5.80

PHASE III



DRINKING FOUNTAIN BLOCKING DETAIL AT STEEL STUD

SCALE : 1/2" = 1'-0" | 11



DRINKING FOUNTAIN BLOCKING DETAIL AT WOOD STUD

SCALE : 1/2" = 1'-0" | 1

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SILVER CREEK

SILVER CREEK

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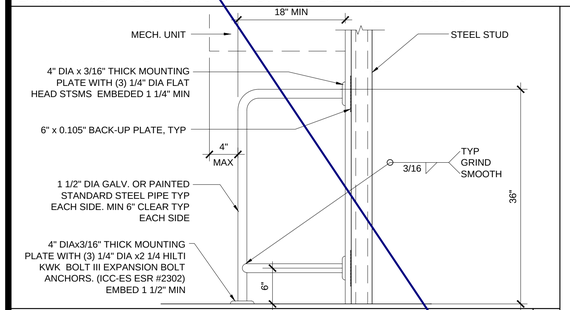
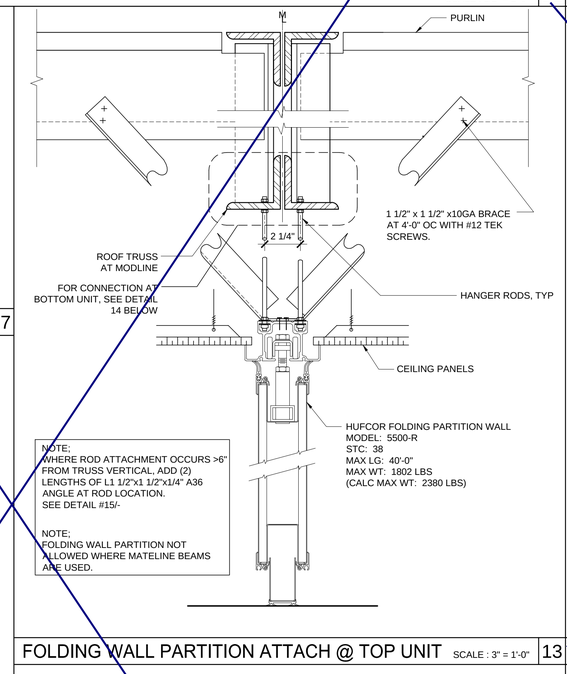


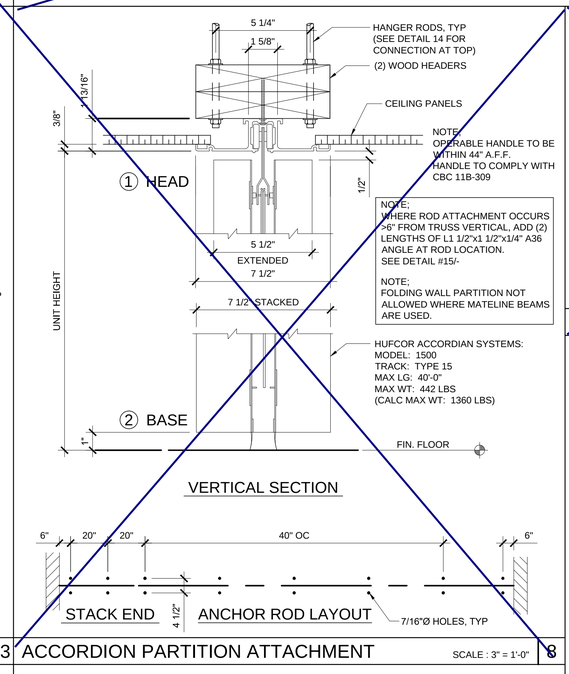
HVAC BARRIER - OPT. D.F. BARRIER AT STEEL STUD

SCALE : 1" = 1'-0" | 17



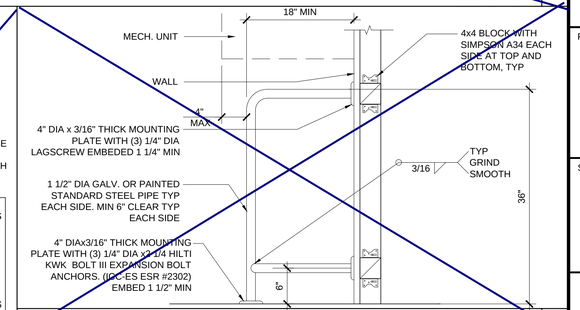
FOLDING WALL PARTITION ATTACH @ TOP UNIT

SCALE : 3" = 1'-0" | 13



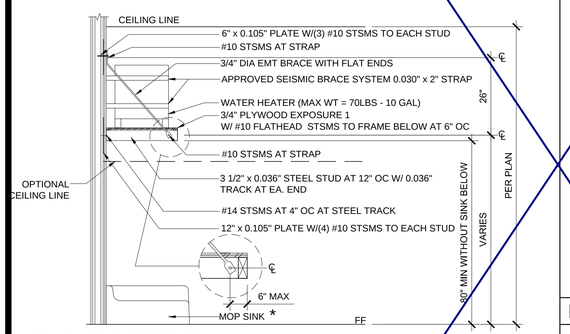
DRINKING FOUNTAIN BLOCKING DETAIL AT WOOD STUD

SCALE : 1/2" = 1'-0" | 1



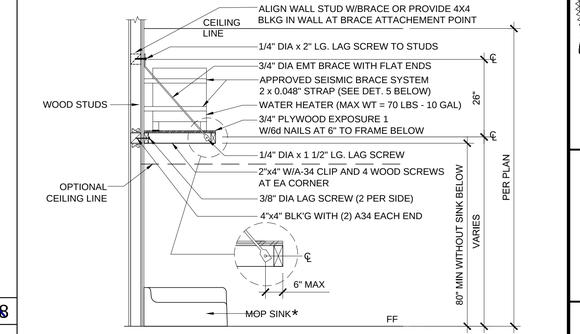
HVAC BARRIER - OPT. D.F. BARRIER AT WOOD STUD

SCALE : 1" = 1'-0" | 2



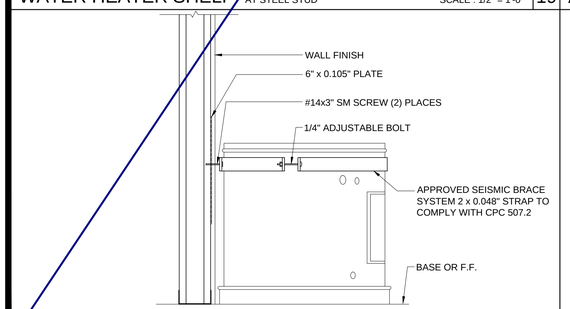
WATER HEATER SHELF AT STEEL STUD

SCALE : 1/2" = 1'-0" | 19



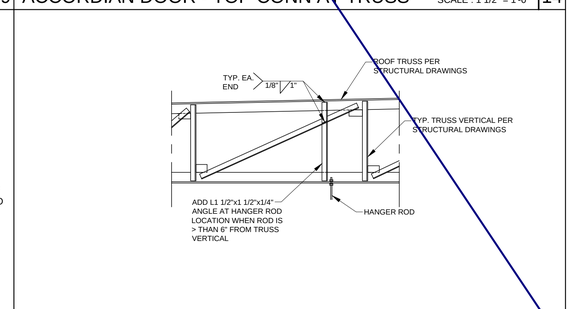
WATER HEATER SHELF AT WOOD STUD

SCALE : 1/2" = 1'-0" | 4



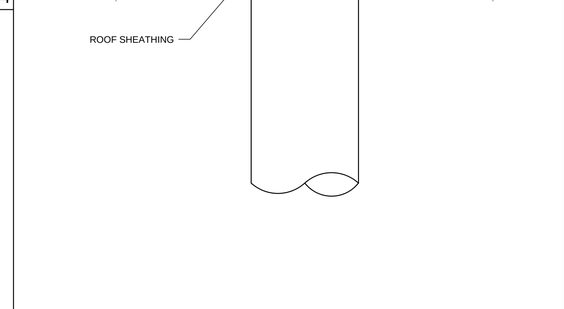
WATER HEATER BRACING AT STEEL STUD

SCALE : 1 1/2" = 1'-0" | 20



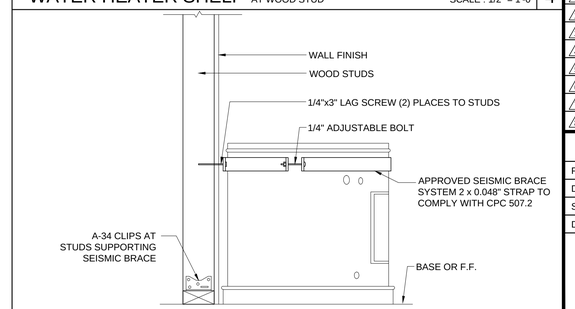
TRUSS SUPPORT @ HANGER ROD

15



PIPE PENETRATION THROUGH ROOF

SCALE : 3"=1'-0" | 10



WATER HEATER BRACING AT WOOD STUD

SCALE : 1 1/2" = 1'-0" | 5

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2010 CGC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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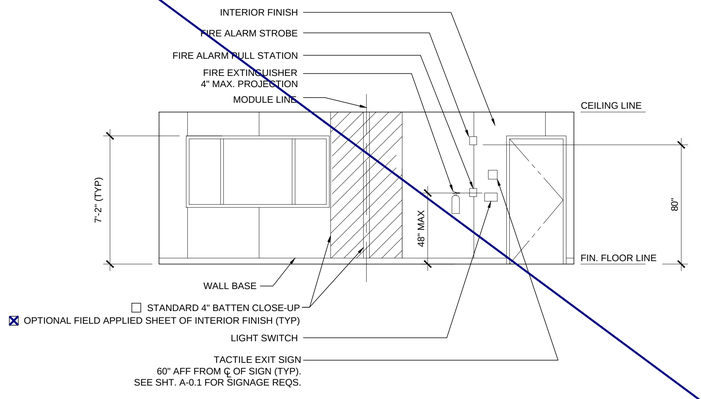
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

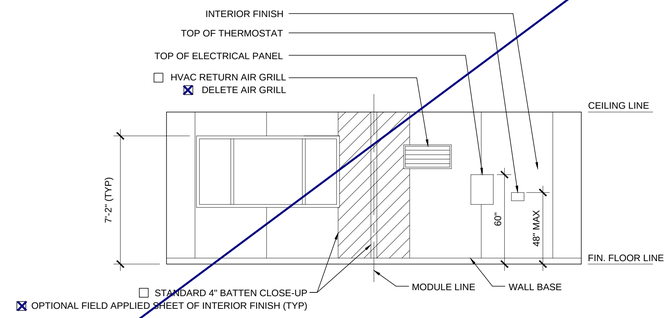
P.C. SHEET NUMBER

A-5.81

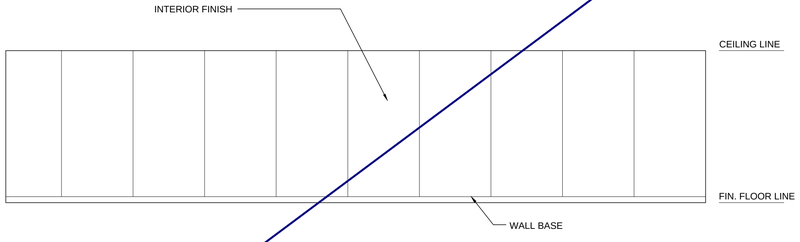
PHASE III



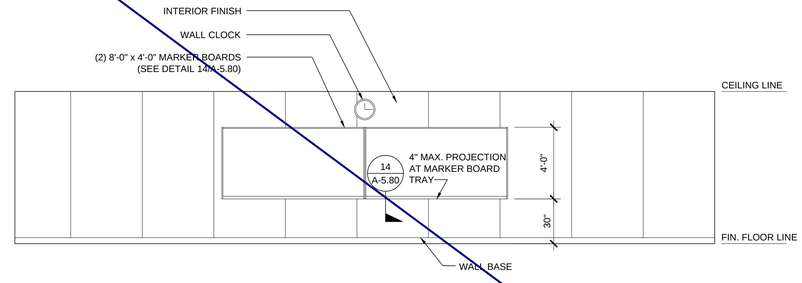
FRONT ELEVATION — SCALE: 1/4" = 1' - 0" — 3



REAR ELEVATION — SCALE: 1/4" = 1' - 0" — 1



SIDE ELEVATION — SCALE: 1/4" = 1' - 0" — 4



SIDE ELEVATION — SCALE: 1/4" = 1' - 0" — 2

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APP. 03-120102 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREI

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

INTERIOR ELEVATION
24' x 40'

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER

A-6.01

PHASE III

ANCHOR PLATE SCHEDULE (S_S UP TO 2.80g)

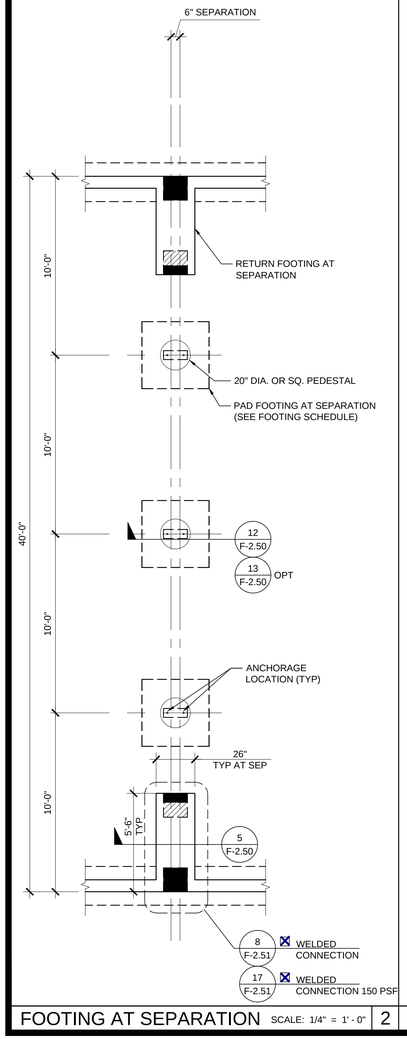
TOTAL NO. OF ANCHOR PLATES ALONG EACH DIRECTION
(MATE-LINE END PLATES MAY BE COUNTED IN END WALL DIRECTION)

		DESIGN FLOOR LIVE LOAD	
No. OF MODULES	DIRECTION	UP TO 100 PSF	150 PSF
2	SIDE WALL	3	3
	END WALL	5	6
	MATE LINE	2 LARGE + 2 SMALL	4 LARGE
3	SIDE WALL	3	3
	END WALL	7	9
	MATE LINE	2 LARGE + 2 SMALL	4 LARGE
4	SIDE WALL	3	3
	END WALL	9	12
	MATE LINE	2 LARGE + 2 SMALL	4 LARGE
5	SIDE WALL	3	3
	END WALL	11	15
	MATE LINE	2 LARGE + 2 SMALL	4 LARGE
6	SIDE WALL	3	3
	END WALL	13	18
	MATE LINE	2 LARGE + 2 SMALL	4 LARGE
7	SIDE WALL	3	3
	END WALL	15	21
	MATE LINE	2 LARGE + 2 SMALL	4 LARGE
8	SIDE WALL	3	3
	END WALL	17	24
	MATE LINE	2 LARGE + 2 SMALL	4 LARGE
9	SIDE WALL	3	3
	END WALL	19	27
	MATE LINE	2 LARGE + 2 SMALL	4 LARGE
10	SIDE WALL	3	3
	END WALL	21	30
	MATE LINE	2 LARGE + 2 SMALL	4 LARGE

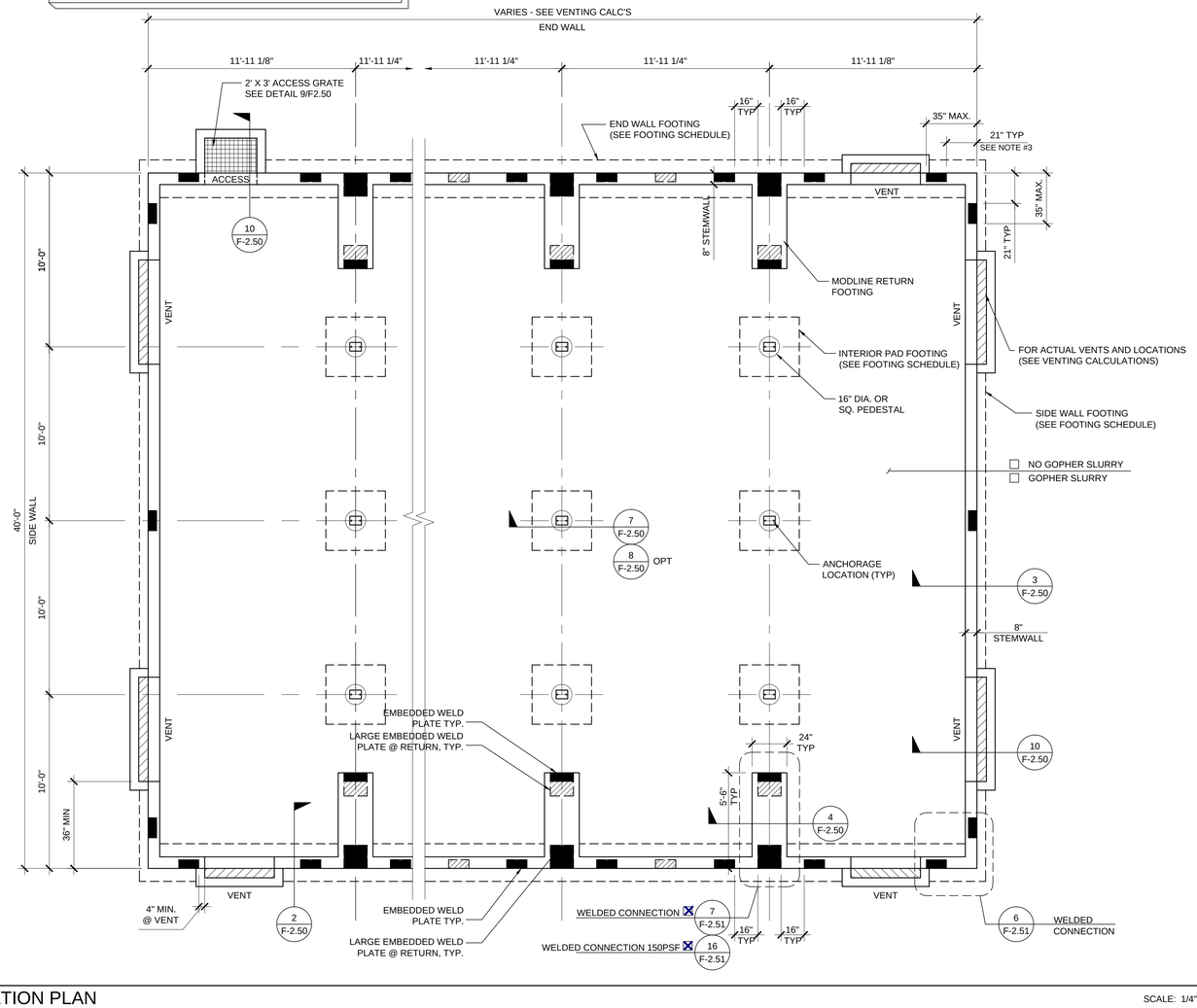
ANCHOR NOTES:
1. ANCHOR PLATES SHALL BE PLACED SUCH THAT THE FOLLOWING MINIMUM CRITERIA ARE MET:
   - ONE (1) LARGE ANCHOR PLATE AT EA. END OF EVERY MATE LINE.
   - ONE (1) ANCHOR PLATE WITHIN 35" OF OVERALL BUILDING CORNERS IN EA DIRECTION.
2. SIDE WALL AND END WALL ANCHOR PLATES, OTHER THAN THOSE DESCRIBED IN NOTE 1, MAY BE PLACED AT ANY LOCATION ALONG THE BUILDING, BUT SHOULD BE SPACED AS EVENLY AS POSSIBLE.
3. ANCHOR PLATES WITHIN 21" OF A VENT, OPENING, OR CORNER SHALL BE REINFORCED WITH HAIRPINS PER 18/F-2.51B

SYMBOLS LEGEND

- WELD PLATE FOR 50, 50+15, OR 100 PSF FLOOR LOAD OPTION
- WELD PLATE FOR 150 PSF FLOOR LOAD OPTION
- 16" x 16" x 3/8" PLATE, SEE DETAIL 14 / F-2.51



FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" | 2



FOUNDATION PLAN SCALE: 1/4" = 1' - 0" | 1

NOTES

1. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
2. 8'-0" MAXIMUM VENT SIZE AT SIDE WALLS
   4'-0" MAXIMUM VENT SIZE AT END WALLS
   3'-0" MINIMUM DISTANCE FROM EDGE OF VENT TO STEMWALL CORNER
   2'-0" MINIMUM DISTANCE BETWEEN VENT EDGES
3. CRAWLSPACE VAPOR RETARDERS (OPTIONAL):

   THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1203.4.2(2).
   MATERIALS:
   GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
   INSTALLATION RECOMMENDATIONS:
   OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; EXTEND VAPOR RETARDER A MINIMUM OF 6 INCHES UP THE STEM WALL (MORE IS BETTER); SEAL TO ALL PIERS AND OTHER PENETRATIONS.
4. SOIL BEARING PRESSURE OF 1500 PSF USED FOR DESIGN.
5. PROFESSIONAL SOILS REPORT: IF A SOILS REPORT IS REQUIRED BY DSA ON THIS BUILDING(S) AND THE RECOMMENDATIONS CAUSE AN INCREASE IN THE COST OF THE ORIGINAL FOUNDATION. THEN THE DISTRICT AGREES TO ACCEPT AND APPROVE A CHANGE ORDER IN THE AMOUNT OF THE COST INCREASE.
6. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

VENTING SCHEDULE

VENT "A" : (8'-0" x 8" METAL SCREEN COVER)
7'-10" x 5" = 3.26 S.F. VENTILATION

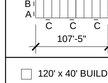
VENT "B" : (6'-0" x 8" METAL SCREEN COVER)
5'-10" x 5" = 2.43 S.F. VENTILATION

VENT "C" : (4'-0" x 8" METAL SCREEN COVER)
3'-10" x 5" = 1.59 S.F. VENTILATION

ACCESS/VENT "D" : (3'-0" x 2'-0" METAL SCREEN COVER)
2'-10" x 18" = 4.25 S.F. VENTILATION

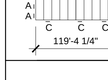
VENTING CALCULATION:

☒ 24' x 40' BUILDING: 24' x 40' = 960 SF / 150 = 6.4 SF VENT. REQ'D



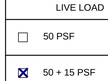
2 - "C" VENT = 3.18 SF
1 - "D" ACCESS VENT = 4.25 SF
7.43 SF TOTAL VENTILATION (> 6.4 SF)

☐ 36' x 40' BUILDING: 36' x 40' = 1440 SF / 150 = 9.6 SF VENT. REQ'D



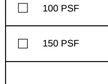
1 - "A" VENT = 3.26 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
9.94 SF TOTAL VENTILATION (> 9.6 SF)

☐ 48' x 40' BUILDING: 48' x 40' = 1920 SF / 150 = 12.8 SF VENT. REQ'D



1 - "A" VENT = 3.26 SF
2 - "B" VENT = 4.86 SF
1 - "C" VENT = 1.59 SF
1 - "D" ACCESS VENT = 4.25 SF
13.96 SF TOTAL VENTILATION (> 12.8 SF)

☐ 60' x 40' BUILDING: 60' x 40' = 2400 SF / 150 = 16 SF VENT. REQ'D



3 - "A" VENT = 9.78 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
16.46 SF TOTAL VENTILATION (> 16 SF)

☐ 72' x 40' BUILDING: 72' x 40' = 2880 SF / 150 = 19.2 SF VENT. REQ'D

4 - "A" VENT = 13.04 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
19.72 SF TOTAL VENTILATION (> 19.2 SF)

☐ 84' x 40' BUILDING: 84' x 40' = 3360 SF / 150 = 22.4 SF VENT. REQ'D

5 - "A" VENT = 16.30 SF
1 - "B" VENT = 2.43 SF
1 - "D" ACCESS VENT = 4.25 SF
22.98 SF TOTAL VENTILATION (> 22.4 SF)

☐ 96' x 40' BUILDING: 96' x 40' = 3840 SF / 150 = 25.6 SF VENT. REQ'D

6 - "A" VENT = 19.56 SF
2 - "C" VENT = 3.18 SF
1 - "D" ACCESS VENT = 4.25 SF
26.99 SF TOTAL VENTILATION (> 25.6 SF)

☐ 108' x 40' BUILDING: 108' x 40' = 4320 SF / 150 = 28.8 SF VENT. REQ'D

4 - "A" VENT = 13.04 SF
2 - "B" VENT = 4.86 SF
5 - "C" VENT = 7.95 SF
1 - "D" ACCESS VENT = 4.25 SF
30.10 SF TOTAL VENTILATION (> 28.8 SF)

☐ 120' x 40' BUILDING: 120' x 40' = 4800 SF / 150 = 32 SF VENT. REQ'D

6 - "A" VENT = 19.56 SF
6 - "C" VENT = 9.54 SF
1 - "D" ACCESS VENT = 4.25 SF
33.35 SF TOTAL VENTILATION (> 32 SF)

FOOTING SCHEDULE

DESIGN FLOOR LIVE LOAD	SIDEWALL FOOTING	ENDWALL FOOTING	INTERIOR PAD FOOTING	PAD FOOTING AT SEPARATION
☐ 50 PSF	12" WIDE (2) #5 CONT T&B	18" WIDE (3) #5 CONT T&B	3'-2" SQ (3) #5 EW	4'-0" SQ (4) #5 EW
☒ 50 + 15 PSF	12" WIDE (2) #5 CONT T&B	18" WIDE (3) #5 CONT T&B	3'-2" SQ (3) #5 EW	4'-0" SQ (4) #5 EW
☐ 100 PSF	12" WIDE (2) #5 CONT T&B	18" WIDE (3) #5 CONT T&B	3'-6" SQ (3) #5 EW	4'-5" SQ (4) #5 EW
☐ 150 PSF	16" WIDE (2) #5 CONT T&B	20" WIDE (3) #5 CONT T&B	4'-2" SQ (4) #5 EW	5'-0" SQ (5) #5 EW

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SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CONCRETE FOUNDATION PLAN
BELOW GRADE CONCRETE FLOOR

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24075 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
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CODE: 2016 CBC

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SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER

F-2.11

PHASE III

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SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CONCRETE FOUNDATION DETAILS BELOW GRADE

REGISTERED PROFESSIONAL ENGINEER
JOHN W STANLEY
24175
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
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SILVER CREEK INDUSTRIES
24' x 40' PC

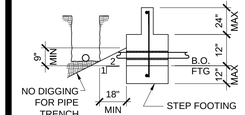
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

P.C. SHEET NUMBER
F-2.50

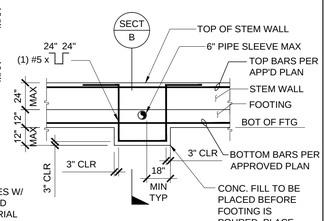
PHASE III

NOT USED 16

SECTION B



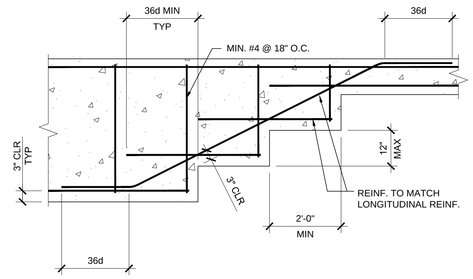
SECTION A



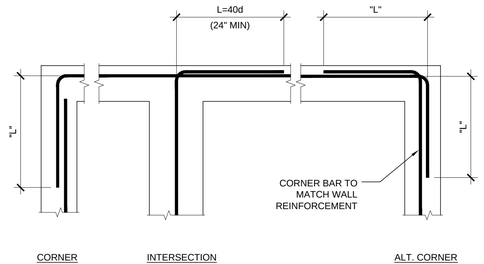
NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)

PIPE SLEEVE THRU FOUNDATION FOOTING SCALE : 1/4"=1'-0" 17



TYPICAL STEPPED FOOTING SCALE : 1/2"=1'-0" 18



TYPICAL REINFORCING AT CORNER AND INTERSECTIONS SCALE : 3/4"=1'-0" 19

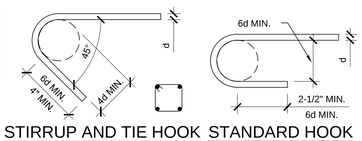
STANDARD HOOKS FOR PRIMARY REINFORCEMENT	
BAR SIZE, No.	MINIMUM FINISHED BEND DIAMETER[a]
3 THROUGH 8	$6d_b$
9 THROUGH 11	$8d_b$
14 AND 18	$10d_b$

(a) MEASURED ON INSIDE OF BAR

STANDARD HOOKS FOR STIRRUPS AND TIE REINFORCEMENT	
BAR SIZE, No.	MINIMUM FINISHED BEND DIAMETER[b]
3 THROUGH 5	$4d_b$
6 THROUGH 8	$6d_b$

(b) MEASURED ON INSIDE OF BAR

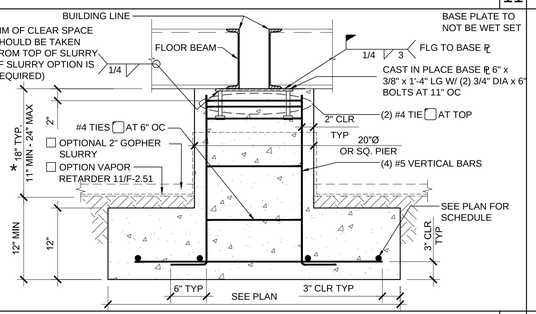
TYP. REINF. BENDING DETAIL



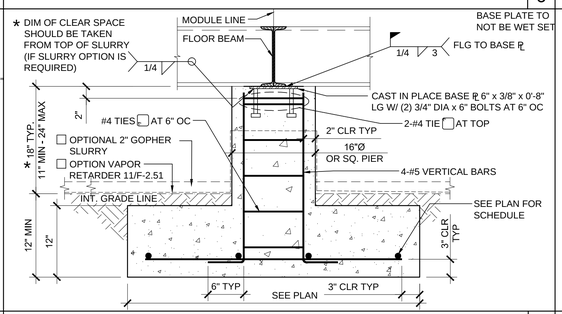
STIRRUP AND TIE HOOK STANDARD HOOK

TYPICAL REINFORCING BENDING DETAILS SCALE : 1 1/2" = 1'-0" 20

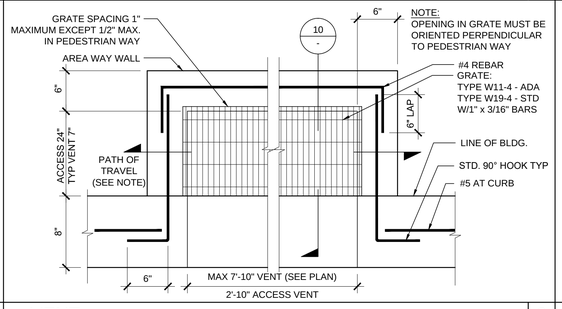
INTERIOR PAD FOOTING (AT SEPARATION) SCALE : 1" =1'-0" 12



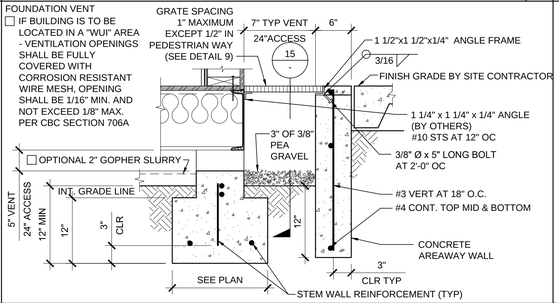
INTERIOR PAD FOOTING (ATTACHMENT AT PLATE) SCALE : 1" =1'-0" 7



VENT SCALE : 1 1/2" = 1'-0" 9

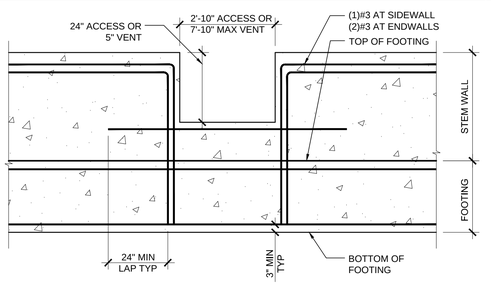


FOUNDATION VENT
☐ IF BUILDING IS TO BE LOCATED IN A "WUI" AREA - VENTILATION OPENINGS SHALL BE FULLY COVERED WITH CORROSION RESISTANT WIRE MESH, OPENING SHALL BE 1/16" MIN. AND NOT EXCEED 1/8" MAX. PER CBC SECTION 706A

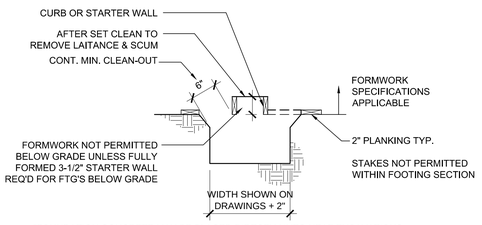


VENT/ACCESS SECTION SCALE : 1" = 1'-0" 10

VENT OPENING SCALE : 1" = 1'-0" 15

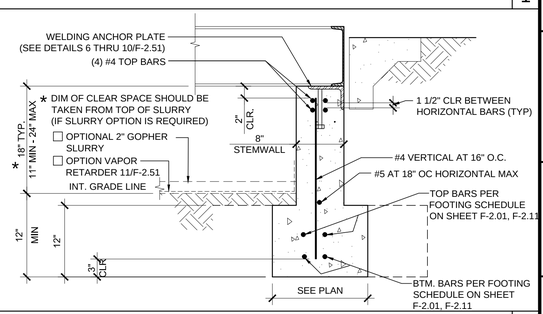


MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED) SCALE : 1 1/2"=1'-0" 14

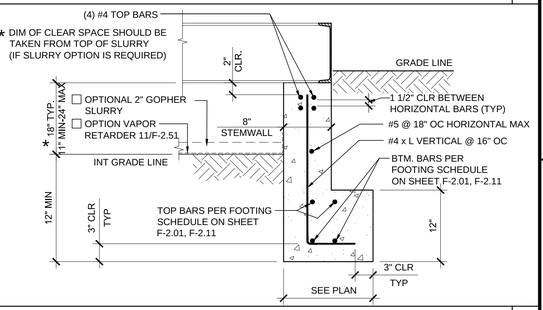


"FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER), SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE."

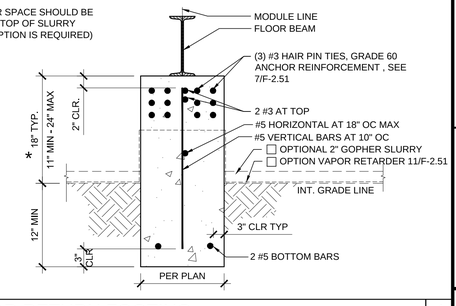
END WALL FOOTING - WELDED SCALE : 1" = 1'-0" 2



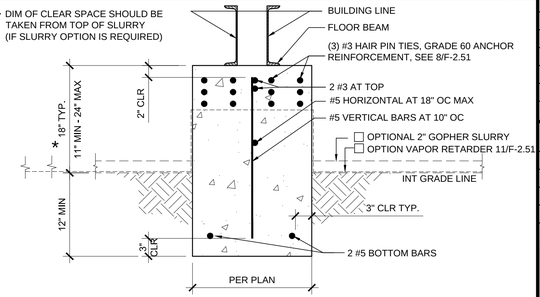
SIDE WALL FOOTING SCALE : 1" = 1'-0" 3

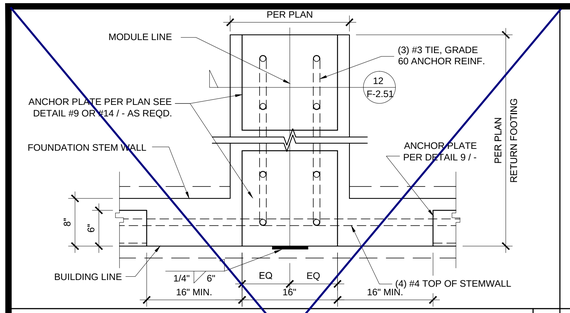


INTERIOR RETURN FOOTING SCALE : 1" = 1'-0" 4

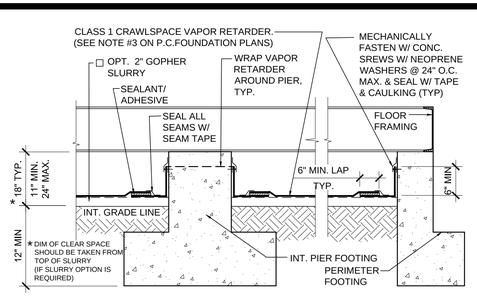


INTERIOR RETURN FOOTING AT SEPARATION SCALE : 1" = 1'-0" 5

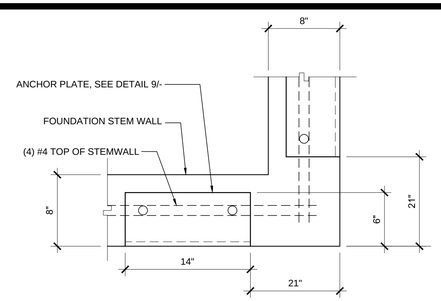




ANCHOR PLATE AT MODLINE, 150 PSF SCALE : 1" = 1'-0" 16

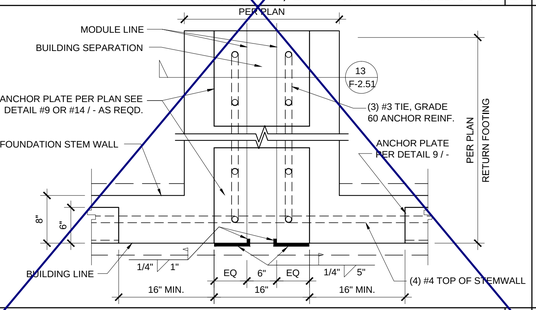


CRAWL SPACE VAPOR RETARDER SCALE: 3/4" = 1' - 0" 11

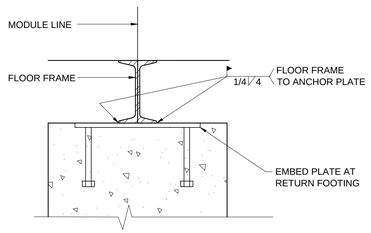


ANCHOR PLATE AT CORNER SCALE : 1 1/2" = 1'-0" 6

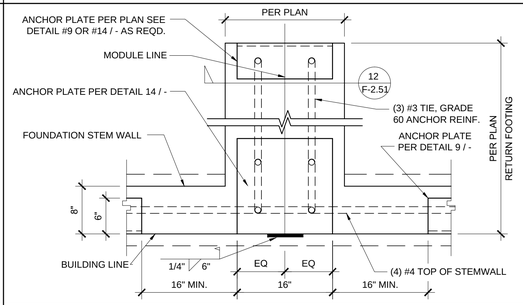
NOT USED 1



ANCHOR PLATE AT SEPARATION, 150 PSF SCALE : 1" = 1'-0" 17



EMBED WELDING AT RETURN FOOTING SCALE : 1 1/2 = 1'-0" 12



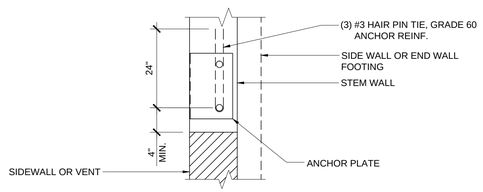
ANCHOR PLATE AT MODULE LINE SCALE : 1" = 1'-0" 7

NOT USED 2

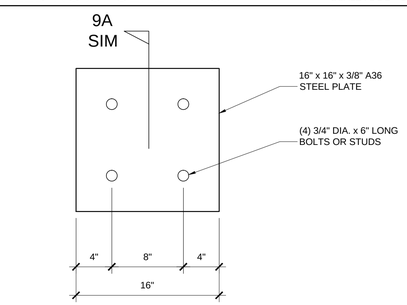
EMBED WELDING AT SEPERATION SCALE : 1 1/2 = 1'-0" 13

ANCHOR PLATE AT SEPARATION SCALE : 1" = 1'-0" 8

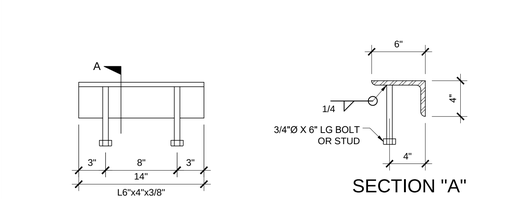
NOT USED 3



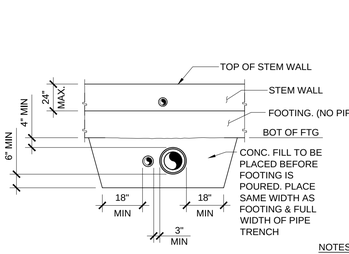
ANCHOR PLATE AT SIDEWALL OR ENDWALL @ VENT 19



LARGE EMBEDDED PLATE DETAIL SCALE : N.T.S. 14

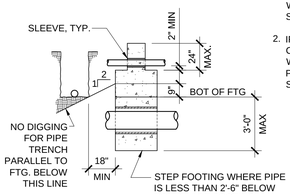


WELD ANGLE DETAIL SCALE : 1 1/2" = 1'-0" 9



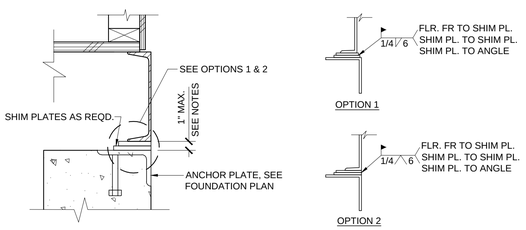
NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)
2. IF PIPE IS IN PLACE PRIOR TO POURING CONCRETE, WRAP PIPE WITH 1" GLASS WOOL OR POLYSTYRENE TAPE BEFORE POURING CONCRETE IN LIEU OF SLEEVES



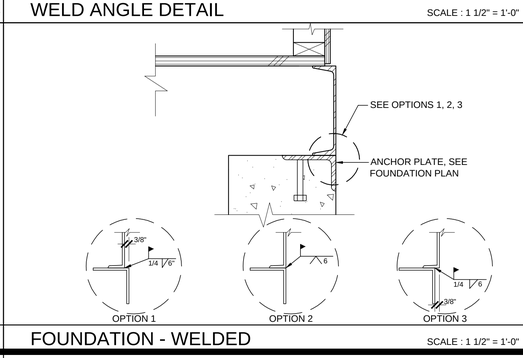
PIPE SLEEVE DETAIL SCALE : 1/4 = 1'-0" 5

NOT USED 20



NOTES;
SHIM PLATE MAY BE SINGLE PLATE OR COMBINATION OF MULTIPLE PLATES.
MIN.SHIM THICKNESS IS 1/4".
MAX. SHIM HEIGHT IS 1".
GAPS UP TO 1/4" DO NOT REQ. SHIM PLATE.

FOUNDATION WELDING W/ SHIM PLATES 15



FOUNDATION - WELDED SCALE : 1 1/2" = 1'-0" 10

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THEREOF WITHOUT THE FUL
CONSENT OF SCI Inc.
ALL PATENTABLE MATERIAL
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

FOUNDATION DETAILS CONCRETE

REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 24475 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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8	

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER

F-2.51

PHASE III

STRUCTURAL SPECIFICATIONS

FOUNDATIONS:

GEOTECHNICAL INVESTIGATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH SECTIONS 1803A.3 THROUGH 1803A.8. EXCEPTIONS, 1) GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY, WOOD-FRAME AND LIGHT-STEEL-FRAME BUILDINGS OF TYPE II OR TYPE V CONSTRUCTION AND 4,000 SQUARE FEET OR LESS IN FLOOR AREA, NOT LOCATED WITHIN EARTHQUAKE FAULT ZONES OR SEISMIC HAZARD ZONES AS SHOWN IN THE MOST RECENTLY PUBLISHED MAPS FROM THE CALIFORNIA GEOLOGICAL SURVEY (CGS) OR IN SEISMIC HAZARD ZONES AS DEFINED IN THE SAFETY ELEMENT OF THE LOCAL GENERAL PLAN, 2) A PREVIOUS REPORT FOR A SPECIFIC SITE MAY BE RESUBMITTED, PROVIDED THAT A REEVALUATION IS MADE AND THE REPORT IS FOUND TO BE CURRENTLY APPROPRIATE. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2 PER CBC SECTION 1803A.2

CONCRETE

PROVIDE NECESSARY SHIMS ON FOOTINGS NOT LEVEL WITHIN THE 1/2" ALLOWABLE TOLERANCE. THE DISTRICT SHALL PROVIDE CLEAR AND UNOBSTRUCTED ACCESS TO THE SITE. THE DISTRICT IS RESPONSIBLE FOR ALL SURVEYING, STAKING THE BUILDING CORNERS, SETTING THE FINISH FLOOR ELEVATION, RIGGING, CRANING, EXCAVATION, SPOIL REMOVAL, AND BACKFILL.

THE FOUNDATION AND THE METHOD OF FASTENING THE UNITS SHALL BE AS SHOWN ON DRAWINGS WHERE APPLICABLE. HIGH STRENGTH GROUT SHALL BE EMBECO 885 NON-SHRINK, METALLIC AGGREGATE GROUT OR A DSA APPROVED EQUAL.

THE DESIGN OF CONRETE FOUNDATIONS WILL BE AS FOLLOWS:

1. FURNISH AND INSTALL ALL CONCRETE WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
2. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN AND / OR THE DETAILS ON THE DRAWINGS, ALL WORK INCLUDED IN THIS SECTION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF CODES AND STANDARDS.
   a) ALL WORK AND MATERIALS SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND CHAPTER 19A.
   b) AMERICAN CONCRETE INSTITUTE (ACI): BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI318-11.
   c) SOCIETY FOR TESTING AND MATERIALS (ASTM): THE SPECIFICATIONS AND STANDARDS HEREINAFTER REFERENCED TO SHALL BE OF THE LATEST EDITION.
3. CONCRETE FOUNDATION TESTS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT AND OR INSPECTOR.
4. DESIGN MIXES SHALL BE AS SPECIFIED IN TITLE 24. CONCRETE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS: (UNLESS REQUIRED OTHERWISE PER ACI 318-11 TABLE 4.3.1).
   CONCRETE COMPRESSIVE STRENGTH F'C= 3500 PSI
   WATER-CEMENT RATIO SHALL NOT EXCEED 0.60 BY WEIGHT
   PORTLAND CEMENT TYPE I
   NORMAL WEIGHT
5. FORMS SHALL BE SUBSTANTIAL, PLUMB, LEVEL, SQUARE, TRUE TO LINE, WATER TIGHT AND ACCURATE TO THE DIMENSIONS REQUIRED.
6. THE ARCHITECT SHALL APPROVE LOCATION OF:
   a) OPENINGS FOR MECHANICAL AND ELECTRICAL: PROVIDE FOR OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED AND INSTALL SLEEVES AS MAY BE REQUIRED.
   b) OPENINGS FOR VENT WELLS FOR UNDER FLOOR VENTILATION: PROVIDE FOR ALL OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED. INSTALL ALL SLEEVES AS MAY BE REQUIRED.
7. VARIANCE IN CONCRETE SLAB SURFACE SHALL BE NO MORE THAN 1/16" IN 10 FEET
8. ALL CEMENT SHALL BE TYPE 1 OR 11 PER ASTM C-150. (UNLESS REQUIRED OTHERWISE PER CBC 1802A.2.3
9. WATER CONTENT SHALL NOT EXCEED 7 1/4 GALLONS PER SACK OF CEMENT (UNLESS REQUIRED OTHERWISE PER ACI 318-11 TABLE 4.3.1)
10. AGGREGATE SHALL BE 3/4" TO 1 1/2" MAXIMUM SIZE BUT NOT MORE THAN 3/4" OF MINIMUM CLEAR BAR SPACING
11. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED "WET SETTING" IS NOT ALLOWED.
12. REFER TO ARCHITECTURAL, ELECTRICAL, AND MECHANICAL PLANS FOR SLEEVES, INSERTS CURBS, DEPRESSED AREAS, AND ETC.
13. CONCRETE MIX REQUIRED: CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN FOR FOOTINGS TO PROFESSIONAL OF RECORD FOR APPROVAL PRIOR TO POURING CONCRETE.

1705A.3.3. WAIVER OF BATCH PLAN INSPECTION.

A. WHEN BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS SHALL APPLY:

1. QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCHING AT THE START OF DAY.
2. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A TICKET.
3. BATCH TICKETS, INCLUDING ACTUAL MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD AND SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK , IT'S LOAD, TIME OF RECEIPT AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.

REINFORCING STEEL:

1. MATERIAL: ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 MIN. GRADE 60. EXCEPT #3 ANCHOR REINFORCEMENT SHALL BE GRADE 40.
2. SPLICES: ALL SPLICES SHALL BE LAPPED A MINIMUM 48" #5 BARS AND 30" #4 BARS UNLESS OTHERWISE DETAILED.
3. REINFORCING FABRICATION AND PLACEMENT: FABRICATION AND PLACING OF REINFORCING SHALL CONFORM TO THE "CODE OF STANDARD PRACTICE AND SPECIFICATIONS FOR PLACING REINFORCEMENT OF THE CONCRETE REINFORCING STEEL INSTITUTE".
4. MINIMUM COVERAGE: ALL REINFORCING SHALL HAVE THE FOLLOWING MINIMUM COVERAGE WITH CONCRETE:

LOCATION	AMOUNT
FORMED EARTH	2"
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
WALL-EXPOSED FACE	
#5 OR SMALLER	2"
#6 OR LARGER	2"
WALL-UNEXPOSED FACE	3/4"

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL OTHER THAN TUBE AND PIPE COLUMNS SHALL CONFORM TO ASTM A-36.
2. TUBE COLUMNS SHALL CONFORM TO ASTM A500 GRADE B, OR A1085
3. PIPE COLUMNS SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPE E OR S, GRADE B. OR A1085
4. TUBE STEEL USED FOR RAMPS & STAIRS SHALL CONFORM TO ASTM A513 GRADE MT1020 OR BETTER

STEEL FRAME BUILDING/STEEL FRAME CONSTRUCTION SHALL MEET THE MINIMUM DESIGN REQUIREMENTS OF STUD SPACING, ETC. PER LATEST EDITION OF 2016 CALIFORNIA BUILDING CODE. ALL WORK AND MATERIALS SHALL CONFORM TO THE "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," AMERICAN INSTITUTE OF STEEL CONSTRUCTION: TITLE 24, CCR, AND UNIFORM BUILDING CODE. STRUCTURAL STEEL SHALL BE MADE EITHER THE OPEN-HEARTH OR ELECTRIC FURNACE PROCESS ONLY AND SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL STEEL" ASTM DESIGNATION A36, CURRENT EDITION.

ROOF FRAMING, FLOOR FRAMING, AND WALL FRAMING SHALL BE PER MANUFACTURER'S PC PLANS AND PER APPLICABLE CODES.

ALL STRUCTURAL MEMBERS BELOW THE SUB-FLOOR, IE, GIRDERS, JOISTS, HEADERS, BLOCKING, SHALL BE STEEL. MINIMUM JOIST SPACING SHALL BE PER PLAN.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC STANDARD SPECIFICATIONS, THE APPLICABLE REGULATORY AGENCY AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OR LIGHT GAUGE STEEL STRUCTURAL MEMBERS. WELDING: SHALL COMPLY WITH THE PERTINENT PROVISIONS OF THE APPLICABLE REGULATORY AGENCY. ALL WELDING SHALL BE DONE BY OPERATORS WHO ARE QUALIFIED AS PRESCRIBED IN THE "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY TO PERFORM THE TYPE OF WORK REQUIRED.

STEEL SHALL BE COATED WITH ONE SHOP COAT OF MANUFACTURER'S STANDARD CHASSIS PAINT OR EQUAL.

BOLTS:

ALL COMMON BOLTS AND ANCHOR BOLTS SHALL CONFORM TO ASTM A-307.

STRUCTURAL WELDING: SPECIAL INSPECTOR REQUIRED

GENERAL: DURING THE WELDING OF ANY MEMBER OR CONNECTION THAT IS DESIGNED TO RESIST LOADS AND FORCES REQUIRED BY THIS CODE.

ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT/LBS AT MINUS 20 DEGREES F AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

ALL STRUCTURAL WELDING SHALL BE BY "ELECTRIC ARC PROCESS" PER AWS STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. ALL LIGHT GAUGE STEEL (SHEET STEEL) SHALL BE WELDED PER AWS D1.3. ALL REINFORCING STEEL SHALL BE WELDED WITH LOW HYDROGEN RODS PER AWS D1.4, OR REINFORCING STEEL SHALL CONFORM TO ASTM A-706. ALL SHOP WELDED MUST BE PERFORMED BY "APPROVED" WELDERS IN A SHOP OF A LICENSED FABRICATOR. ALL FIELD WELDING SHALL BE PERFORMED BY "APPROVED" WELDERS. ELECTRODES SHALL BE E70XX FOR STRUCTURAL STEEL AND REBAR AND SHALL BE E60XX FOR LIGHT GAUGE STEEL. ⁎ (SEE OPTIONAL PROCESS)

THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDED THE MATERIALS, WELDING PROCEDURES AND QUALIFICATION OF WELDERS ARE VERIFIED PRIOR TO THE START OF WORK: PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS, AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO SHIPMENT OF SHOP WELDING.

a) FLOOR AND ROOF DECK WELDING.
b) WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGM OR COMPOSITE SYSTEMS.
c) WELDED SHEET STEEL FOR COLD-FRAMED STEEL FRAMING MEMBERS SUCH AS STUDS AND JOISTS WHICH ARE NOT PART OF AN ORDINARY MOMENT FRAME.
d) SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16".

MATERIAL SHALL BE IDENTIFIED BY MARKING OR STAMPING THE I.D. NUMBER ON STRUCTURAL STEEL COMPONENTS BY LICENSED FABRICATION SHOP.

ALL BUTT, BEVEL, GROOVE, VEE, U AND J WELDS SHALL BE PREQUALIFIED COMPLETE PENETRATION WELDS.

FILLER MATERIAL FOR WELDING: SHIELDED METAL-ARC: AWS A5.1 OR 15.5 E70XX ELECTRODES.

HOLES IN STRUCTURAL STEEL SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

STRUCTURAL STEEL SHALL BE THOROUGHLY CLEANED BY SCRAPING OR WIRE BRUSHING AND SHOP PRIMED.

ALL STEEL WORK, INCLUDING WELD AND CONNECTIONS EXCEPT WHERE ENTIRELY ENCASED IN CONCRETE SHALL BE GIVEN ONE COAT OF ACCEPTABLE METAL PROTECTION WELL WORKED INTO JOINTS AND OPEN SPACES.

⁎ OPTIONAL USE OF: FCAW PROCESS: E71T-8 FOR STRUCTURAL/REBAR (MEETS ALL CHARPY REQUIREMENTS)
E71T-11 FOR METAL DECKING

COLD-FORMED STEEL FRAMING:
STRUCTURAL LIGHT GAUGE STEEL FRAMING AND ACCESSORIES SHALL BE FABRICATED IN ACCORDANCE WITH ASTM A-1011/A GRADE AS LISTED BELOW, SEE PLAN FOR MINIMUM YIELD.
MATERIAL THICKNESS 11GA OR LESS: ASTM A-1011/A GRADE 33 (UNO)
MATERIAL THICKNESS 10GA OR GREATER: ASTM A-1011/A GRADE 40

SHEET STEEL DESIGNATION (GAUGE)	MINIMUM DELIVERED THICKNESS (INCHES)
26	0.017
22	0.029
20	0.034
18	0.046
16	0.057
14	0.071
12	0.100
11	0.114
10	0.128

LIGHT GAUGE STEEL STUDS AND TRACKS SHALL COMPLY WITH ASTM A-1003 STRUCTURAL GRADE 33 TYPE H

ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL". QUALIFICATION OF WELDERS SHALL BE IN ACCORDANCE WITH AWS D1.1, CHAPTER 5, PART C, "WELDER QUALIFICATIONS".

BOLTS, SCREWS, ETC. EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED

MACHINE BOLTS USED SHALL CONFORM TO SPECIFICATIONS OF ASTM STANDARD A-307.

NTD:
(b) CJP GROOVE WELD NDT
ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16 in. (8mm) THICK OR GREATER. ULTRASONIC TESTING IN MATERIALS LESS THAN 5/16 in. (8 mm) THICK IS NOT REQUIRED. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.

WOOD:

FRAMING: ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY AND SHALL BE OF THE FOLLOWING MINIMUM GRADES OR BETTER, PER WCLB RULES #16.
PLATES AND BLOCKING - STANDARD GRADE OR BETTER
STUDS AND HEADER = HF #2, OR DF #2, OR BETTER

SHEATHING:

AMERICAN PLYWOOD ASSOCIATION PS 1-07. EACH SHEET SHALL BE GRADE MARKED BY THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL CONFORM TO THE REQUIREMENTS OF STANDARD GRADE GROUP 1 OR BETTER GRADE STAMPED AND IDENTIFIED UNDER THE PROCEDURES AND QUALIFICATIONS SET FORTH BY PS 1-07.

1. PLYWOOD SUB FLOOR: 1 1/8" T&G UNBLOCKED PLYWOOD. PROVIDE SEAMLESS WOVEN POLYFLEX BOTTOM BOARD FOR MOISTURE PROTECTION
2. OPTIONAL PLYWOOD ROOF DECK: APA RATED 3/4" T&G OSB OR EQUIVALENT RATED SHEATHING WITH APPROVAL FROM DSA
3. EXTERIOR WALL SIDING:
   i. STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL
   ii. OPTIONAL: 5/8" MDO
   iii. OPTIONAL: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH
4. EXTERIOR WALL SIDING ATTACHMENT:
   FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE HOT-DIPPED GALVANIZED, MECHANICALLY DEPOSITED ZINC-COATED, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC SECTION 2304.10.1.1

TREATED WOOD:

ALL WOOD INCLUDING WOOD SHEATHING IN CONTACT WITH CONCRETE OR MASONRY AND LOCATED LESS THAN 18" FROM EXPOSED EARTH SHALL BE "PRESERVATIVE TREATED" OR SHALL BE "NATURALLY DURABLE" MATERIAL PER (CBC SECTION 2304.12.1.2).

1. ALL ROUGH LUMBER SHALL BE DF #2 OR BETTER.
2. WOOD FASTENERS OTHER THAN SCREWS.
   ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, AND RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.
3. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC 2304.10.5.1

CONTINUOUS INSPECTION:

PROJECT INSPECTOR TO PROVIDE CONTINUOUS FIELD INSPECTION.

IN-PLANT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION IN-PLANT

METALS, STRUCTURAL, AND MISC. STEEL:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND SERVICES REQUIRED FOR STRUCTURES AND MISCELLANEOUS STEEL AS SPECIFIED AND INDICATED IN THE DRAWINGS.

STEEL SHEETS: STEEL SHEETS FOR LIGHT GAUGE STEEL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-1011/A, GRADE 40 U.O.N. SHEET METAL GRAVEL STOPS AND FLASHINGS SHALL BE MINIMUM 0.030 THICKNESS AND SHALL BE GALVANIZED.

ERECTION:
ALL STRUCTURAL STEEL SHALL BE ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNED LOCATION. TEMPORARY BRACING OR SHORING SHALL BE INSTALLED WHEREVER NECESSARY TO TAKE CARE OF LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING ERECTION EQUIPMENT AND THE OPERATION OF SAME. CONNECTIONS SHALL BE ADEQUATE TO WITHSTAND STRESSES TO WHICH THEY ARE NORMALLY SUBJECTED. CONNECTIONS SHALL BE STEEL, EXCEPT AS OTHERWISE NOTED. FIELD CONNECTIONS SHALL BE BOLTED OR WELDED AS SHOWN ON THE DRAWINGS.

SHOP PAINT:

* EXPOSED STEEL COATED WITH ONE SHOP COAT OF PRIMER.
* NON-EXPOSED STEEL COATED WITH ON SHOP COAT OF PRIMER.
* ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.

POWER DRIVEN FASTENERS FOR SILL PLATE, WOOD NAILERS TO STEEL COLUMNS, AND SHEET METAL TO STRUCTURAL STEEL:

ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, OR RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.

WOOD ROUGH CARPENTRY:

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS AND STEPS NECESSARY TO PROTECT ALL COMPLETED, SEMI-COMPLETED, AND TEMPORARY WORK FROM COMMENCEMENT OF PROJECT TO COMPLETE, SEMI-COMPLETION OF SAME ANY PORTION OF THE WORK DAMAGED OR DISFIGURED SHALL BE SATISFACTORILY REPAIRED OR REPLACED AND THE WORK AS A WHOLE LEFT WITHOUT BLEMISH AT FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY MEASUREMENTS AT THE BUILDING, THE ACCURATE FITTING OF ALL WORK AND PROPER ACCOMMODATION OF OTHER TRADES.

DESCRIPTION OF WORK:
THIS SECTION INCLUDES FURNISHING OF ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES TO COMPLETE ROUGH CARPENTRY AS INDICATED IN THE DRAWINGS AND AS SPECIFIED HEREIN.

WORKMANSHIP:
ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE, SHALL BE ACCURATE AS TO MEASUREMENT AND SHALL BE CAREFULLY DONE. PLYWOOD SHEATHING SUBFLOOR SHALL PROVIDE A SMOOTH UNIFORM SURFACE CAPABLE PROPERLY ACCEPTING A CARPET FINISH.

ROOF DIAPHRAGM:
3/4" T&G APA RATED SHEATHING - STRUCTURE 1 EXPOSURE 1
SPAN RATING 48/24 MIN.
FASTEN TO SHEET METAL SUPPORTS W/ #10 x 1 1/4" LG. SELF DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS AT 4" OC AT BOUNDARIES, 6" OC AT EDGES, AND 12" OC FIELD NAILS. MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.

FLOOR DIAPHRAGM:
1 1/8" PLYWOOD - STURD-I-FLOOR
EXTERIOR - TONGUE AND GROOVE EDGES
SPAN RATING: 48"
FASTEN TO SHEET METAL SUPPORTS W/ #10 - 24 x 1 3/4 LG. SELF-DRILLING, SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.

@ 150-PSF ((FULLY BLOCKED))
FASTEN TO SHEET METAL SUPPORTS W/ #10 - 24 x 1 3/4 LG. SELF-DRILLING, SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS AT 4" O.C. BOUNDARIES + CONT. PANEL EDGES, 6" O.C. @ ALL OTHER PANEL EDGES 12" O.C. INTERMEDIATE.
ALL EDGES OF ALL PANELS SHALL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING. WHERE USED AS BLOCKING, FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 33 MILS WITH A MINIMUM WIDTH OF 1.5 INCHES. SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.

CONCRETE FLOOR DATA: LIGHTWEIGHT CONCRETE FLOOR
STRENGTH: 3500 PSI or 4000 PSI
TYPE: I OR II
DENSITY: 110 PCF - MAX

DIMENSION LUMBER ATTACHMENT TO STEEL FRAMING:
2 x STUDS AT CORNER STEEL COLUMNS (NAILING STUD)
USE: #10 - 24 x 2 1/2" LG. SELF-DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD WITH WASHER ZINC COATED TEK SCREWS AT 24" O.C.

REFERENCE STANDARDS NOTES:

INTENT OF DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE STATE OF CALIFORNIA, CALIFORNIA CODE OF REGULATIONS, PART 1, 2, 3, 4, 5, 6, 9, AND 12, SUB-CHAPTER 1. CALIFORNIA BUILDING CODE, 2016 EDITION, MANUAL OF STEEL CONSTRUCTION, (AISC) 14TH EDITION, AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE, AWS D1.1, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION STANDARD, (AITC) 109 ARCHITECTURAL SHEET METAL MANUAL, AIA FILE NO. 12-L (SMACNA) LATEST ADOPTED EDITION UNLESS OTHERWISE NOTED.

WORKMANSHIP:
WORKMANSHIP AND MATERIALS SHALL BE SUCH THAT BUILDING WILL BE WEATHERTIGHT AND WATERTIGHT.

INSPECTIONS:
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

CHANGES:
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

NAILING NOTES:
1. ALL NAILS SHALL BE COMMON UNLESS OTHERWISE NOTED
2. MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO THE SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH. THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.

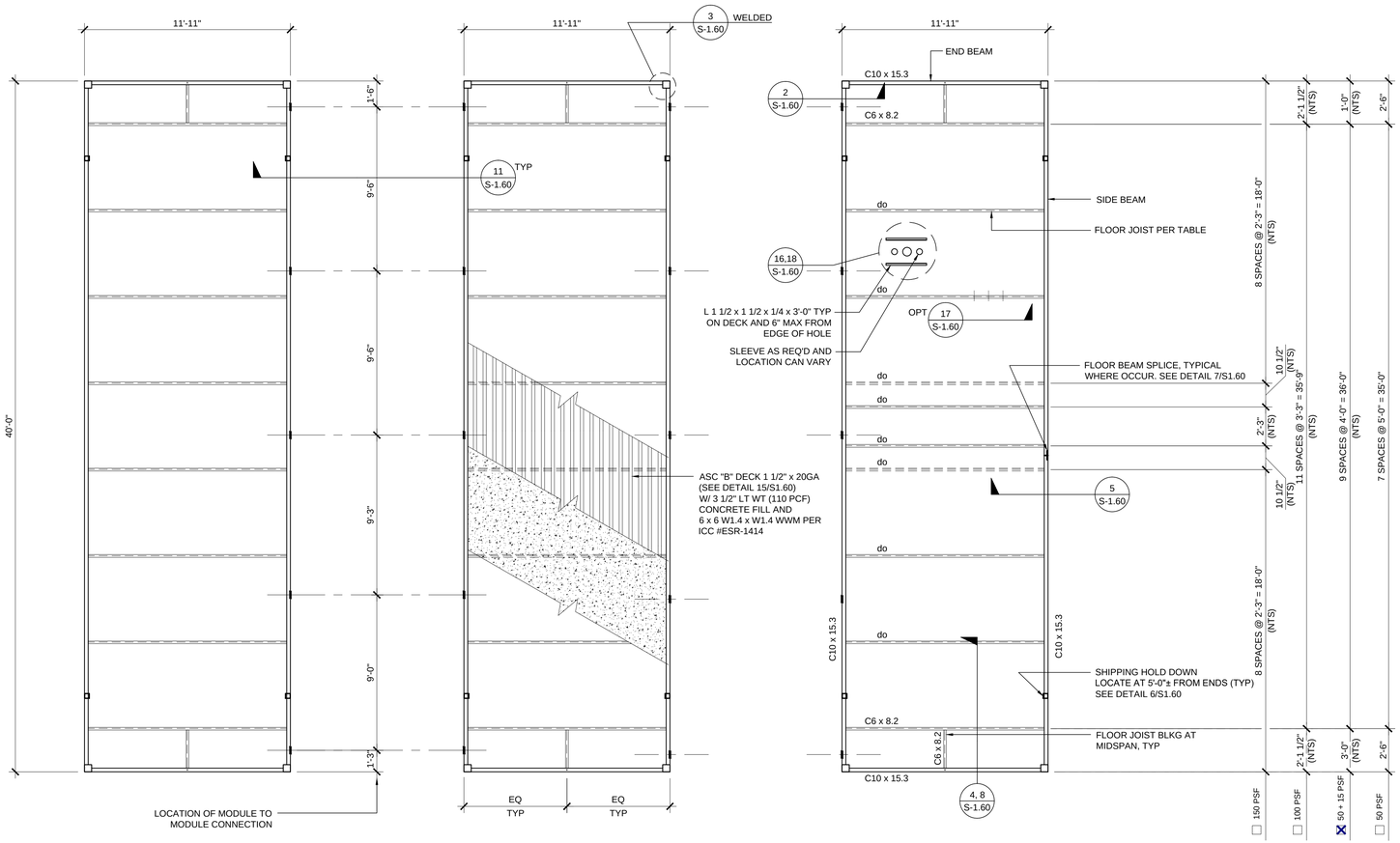
CONNECTION AND FASTENERS:
ALL CONNECTIONS AND FASTENERS AS STATED ON THESE DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT WITH ICC REPORTS AND APPROVAL BY DSA.

CONNECTION OF LAG SCREWS:
AS REQUIRED PER ANSI / AF&PA NDS-2012, LAG SCREWS MUST BE INSTALLED INTO A PRE-DRILLED PILOT HOLE WITH A STANDARD WASHER AND TURNED WITH A WRENCH. DO NOT DRIVE IN WITH A HAMMER. OVER-TORQUING CAN SIGNIFICANTLY REDUCE THE LATERAL RESISTANCE OF THE LAG SCREW AND SHOULD BE AVOIDED.

FASTENING SCHEDULE CBC - TABLE 2304.10.1

CONNECTION	FASTENING[a,m]	LOCATION
1. JOIST TO SILL OR GIRDER	3 - 8d COMMON 3 - 3" x 0.131" NAILS	TOENAIL
2. BRIDGING TO JOIST	2 - 8d COMMON (2 ½" x .131") 2 - 3" x 0.31" NAILS	TOENAIL EACH END
3. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2 - 8d COMMON (2 ½" x .131")	FACE NAIL
4. WIDER THAN 1" x 6" SUBFLOOR TO EACH JOIST	3 - 8d COMMON (2 ½" x .131")	FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	2 - 16d COMMON	BLIND AND FACE NAIL
6. SOLE PLATE TO JOIST OR BLOCKING	16d(3 ½" x .135") AT 16" O.C. 3"x0.131" NAILS AT 8" O.C.	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLKING AT BRACED WALL PANEL	3 - 16d(3 ½" x .135") AT 16" O.C. 4 - 3"x0.131" NAILS AT 16" O.C.	BRACED WALL PANELS
7. TOP PLATE TO STUD	2 - 16d COMMON (3 ½" x 0.162") 3 - 3"x0.031" NAILS	END NAIL
8. STUD TO SOLE PLATE	4 - 8d COMMON (2 ½"x0.131") 4 - 3"x0.131" NAILS	TOENAIL
	2 - 16d COMMON (3 ½"x0.162") 3 - 3"x0.131" NAILS	END NAIL
9. DOUBLE STUDS	16d (3 ½"x0.135") AT 24" O.C. 3"x0.131" NAILS AT 12" O.C.	FACE NAIL
10. DOUBLE TOP PLATES	16d (3 ½"x0.135") AT 16" O.C. 3"x0.131" NAILS AT 12" O.C.	TYPICAL FACE NAIL
DOUBLE TOP PLATES	8 - 16d COMMON (3 ½"x0.162") 12 - 3"x0.131" NAILS	LAP SPLICE
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3 - 8d COMMON (2 ½"x0.131") 3 - 3"x0.131" NAILS	TOENAIL
12. RIM JOIST TO TOP PLATE	8d (2 ½"x0.131") AT 6" O.C. 3"x0.131" NAIL AT 6" O.C.	TOENAIL
13. TOP PLATES, LAPS, AND INTERSECTIONS	2 - 16d COMMON (3 ½"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON (3 ½"x0.162")	16" OC ALONG EDGE
15. CEILING JOISTS TO PLATE	3 - 8d COMMON (2 ½"x0.131") 5 - 3"x0.131" NAILS	TOENAIL
16. CONTINUOUS HEADER TO STUD	4 - 8d COMMON (2 ½"x0.131")	TOENAIL
17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3 - 16d COMMON (3 ½"x0.162") MIN TABLE 2308.10.4.1 4 - 3"x0.131" NAILS	FACE NAIL
18. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3 - 16d COMMON (3 ½"x0.162") MIN TABLE 2308.10.4.1 4 - 3"x0.131" NAILS	FACE NAIL
19. RAFTER TO PLATE (SEE SECTION 2308.10.1, TABLE 2308.10.1	3 - 8d COMMON (2 ½"x0.131") 3 - 3"x0.131" NAILS	FACE NAIL
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	2 - 8d COMMON (2 ½"x0.131") 2 - 3"x0.131" NAILS	FACE NAIL
21. 1" x 8" SHEATHING TO EACH BEARING	3 - 8d COMMON (2 ½"x0.131")	FACE NAIL
22. WIDER THAN 1" x 8" SHEATHING TO EACH BEARING	3 - 8d COMMON (2 ½"x0.131")	FACE NAIL
23. BUILT-UP CORNER STUDS	16d COMMON (3 ½"x0.162") 3"x0.131" NAILS	24" O.C. 16" O.C.
24. BUILT-UP GIRDER AND BEAMS	20d COMMON (4"x0.192")32" O.C. 3"x0.131" NAIL AT 24" O.C	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	2 - 20d COMMON (4" x0.192") 3 - 3"x0.131" NAILS	FACE NAIL AT ENDS AND AT EACH SPLICE
25. 2" PLANKS	16d COMMON (3 ½"x0.162")	AT EACH BEARING
26. COLLAR TIE TO RAFTER	3 - 10d COMMON (3"x0.148") 4 - 3"x0.131" NAILS	FACE NAIL
27. JACK RAFTER TO HIP	3 - 10d COMMON (3"x0.148") 4 - 3"x0.131" NAILS	TOE NAIL
	2 - 16d COMMON (3 ½"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
28. ROOF RAFTERS TO 2-BY RIDGE BEAM	2 - 16d COMMON (3 ½"x0.162") 3 - 3"x0.131" NAILS	TOE NAIL
	2 - 16d COMMON (3 ½"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
29. JOIST TO BAND JOIST	3 - 16d COMMON (3 ½"x0.162") 4 - 3"x0.131" NAILS	FACE NAIL
30. LEDGER STRIP	3 - 16d COMMON (3 ½"x0.162") 4 - 3"x0.131" NAILS	FACE NAIL AT EACH JOIST
31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD[b] SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS — 6d[c,l] 2 ½"x0.113" NAIL[n] / 1 ¾" 16d GAGE[o]	
	19/32" TO 3/4" — 8d[d] or 6d[e] 2 ½"x0.113" NAIL[n] / 2" 16d GAGE[o]	
	7/8" TO 1" — 8d[c]	
	1 1/8" TO 1 1/4" — 10d[d] or 8d[e]	
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	3/4" AND LESS — 6d[e]	
	7/8" TO 1" — 8

REAR



LEFT HAND MODULE

INTERIOR MODULE

RIGHT HAND MODULE

FRONT

FLOOR JOIST TABLE

	LIVE LOAD PSF	JOIST SPACING
☐	50	60"
☒	50 + 15	48"
☐	100	39"
☐	150	27"

1. HSS COLUMN SCHEDULES ON SHEETS S-3.01 THRU S-3.04

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ORIGINATING WITH SCI Inc S

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

FLOOR FRAMING PLAN
CONCRETE FLOOR

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

1	
2	
3	
4	
5	
6	
7	
8	

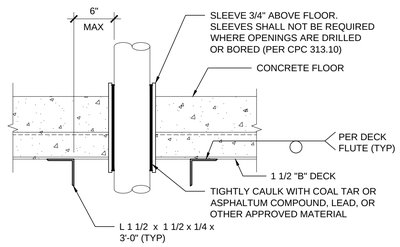
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER

S-1.11

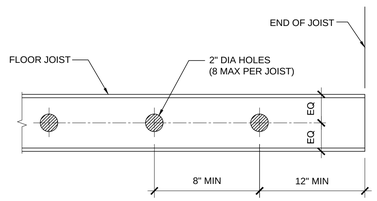
PHASE III



REF: S-1.11

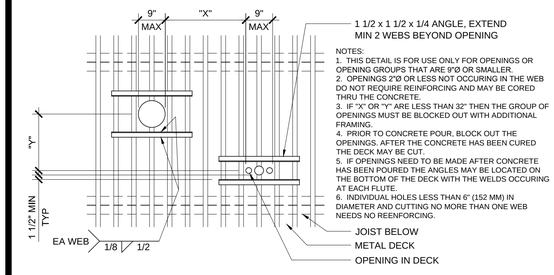
FLOOR PENETRATION

SCALE : 3" = 1'-0" | 16



FLOOR JOIST HOLES (OPTIONAL)

SCALE : 1/8" = 1'-0" | 17



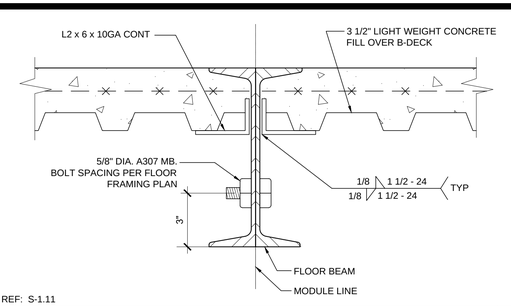
NOTES:
1. THIS DETAIL IS FOR USE ONLY FOR OPENINGS OR OPENING GROUPS THAT ARE 9"Ø OR SMALLER.
2. OPENINGS 2"Ø OR LESS NOT OCCURING IN THE WEB DO NOT REQUIRE REINFORCING AND MAY BE CORED THRU THE CONCRETE.
3. IF "X" OR "Y" ARE LESS THAN 32" THEN THE GROUP OF OPENINGS MUST BE BLOCKED OUT WITH ADDITIONAL FRAMING.
4. PRIOR TO CONCRETE POUR, BLOCK OUT THE OPENINGS. AFTER THE CONCRETE HAS BEEN CURED THE DECK MAY BE CUT.
5. IF OPENINGS NEED TO BE MADE AFTER CONCRETE HAS BEEN POURED THE ANGLES MAY BE LOCATED ON THE BOTTOM OF THE DECK WITH THE WELDS OCCURING AT EACH FLUTE.
6. INDIVIDUAL HOLES LESS THAN 6" (152 MM) IN DIAMETER AND CUTTING NO MORE THAN ONE WEB NEEDS NO REENFORCING.

PENETRATIONS IN DECK (OPTION)

SCALE : 1/2"=1'-0" | 18

NOT USED

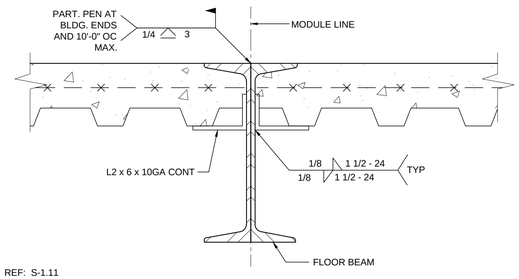
19



REF: S-1.11

MODULE LINE - BOLTED CONNECTION

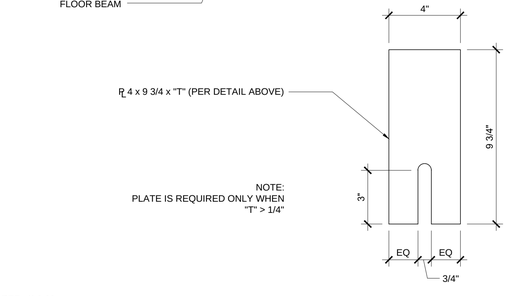
SCALE : 3" = 1'-0" | 11



REF: S-1.11

MODULE LINE CONNECTION (OPTION 1)

SCALE : 3" = 1'-0" | 12

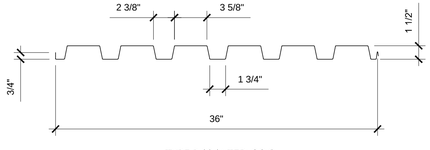


NOTE:
PLATE IS REQUIRED ONLY WHEN "T" > 1/4"

REF: S-1.11

MODULE LINE CONNECTION (OPTION 2)

SCALE : 3"=1'-0" | 14



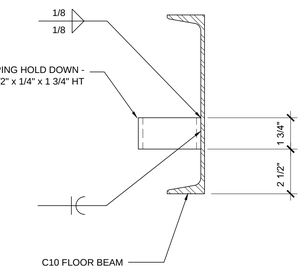
TYPE B-36 (INTERLOCK)

DECK PROPERTIES:
TYPE: B
THICKNESS (IN): 0.036"
I (IN⁴): 0.22
POSITIVE (IN⁴): 0.235
NEGATIVE (IN⁴): 0.246

REF: S-1.11

FLOOR DECK PROPERTY

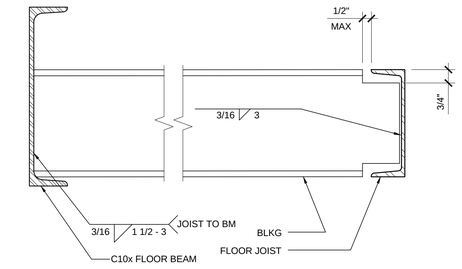
SCALE : 1 1/2" = 1'-0" | 15



REF: S-1.11

SHIPPING HOLD DOWN DETAIL

SCALE : 3"=1'-0" | 6

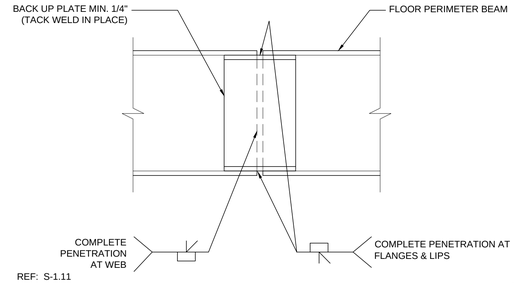


REF: S-1.11

BLOCKING TO JOIST

SCALE : 3"=1'-0" | 8

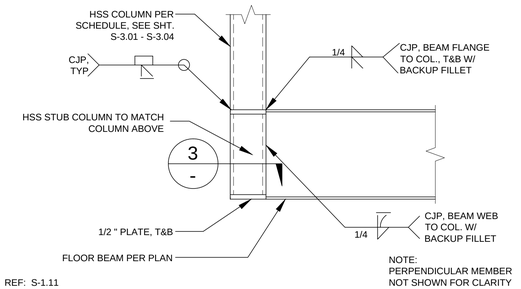
10



REF: S-1.11

FLOOR BEAM SPLICE

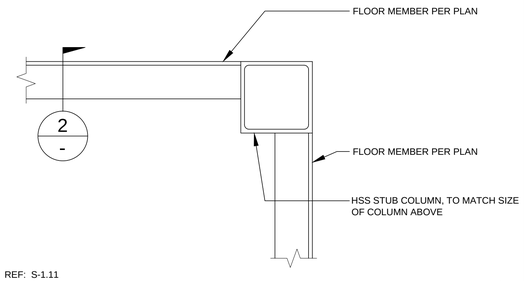
SCALE : 3" = 1'-0" | 7



REF: S-1.11

FLOOR BEAM TO COLUMN CONNECTION

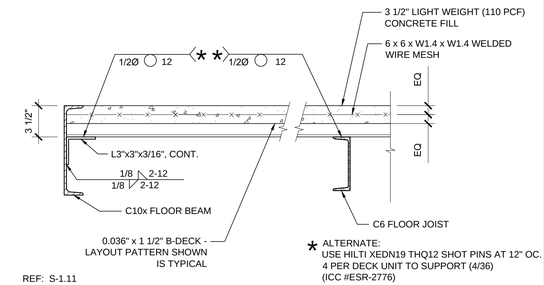
SCALE : 1 1/2" = 1'-0" | 2



REF: S-1.11

CORNER CONNECTION

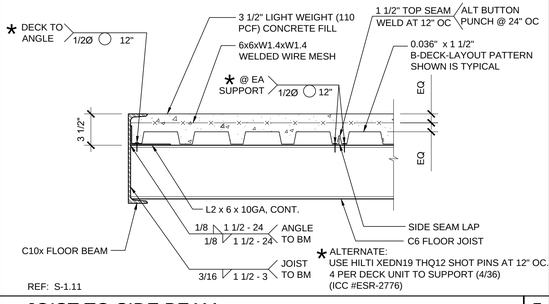
SCALE : 3" = 1'-0" | 3



REF: S-1.11

DECK AT END BEAM

SCALE : 1 1/2" = 1'-0" | 4



REF: S-1.11

JOIST TO SIDE BEAM

SCALE : 1 1/2" = 1'-0" | 5

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CONSENT OF SCI Inc.
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IDENTIFICATION STAMP
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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

FLOOR FRAMING DETAIL
CONCRETE FLOOR

REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 24175 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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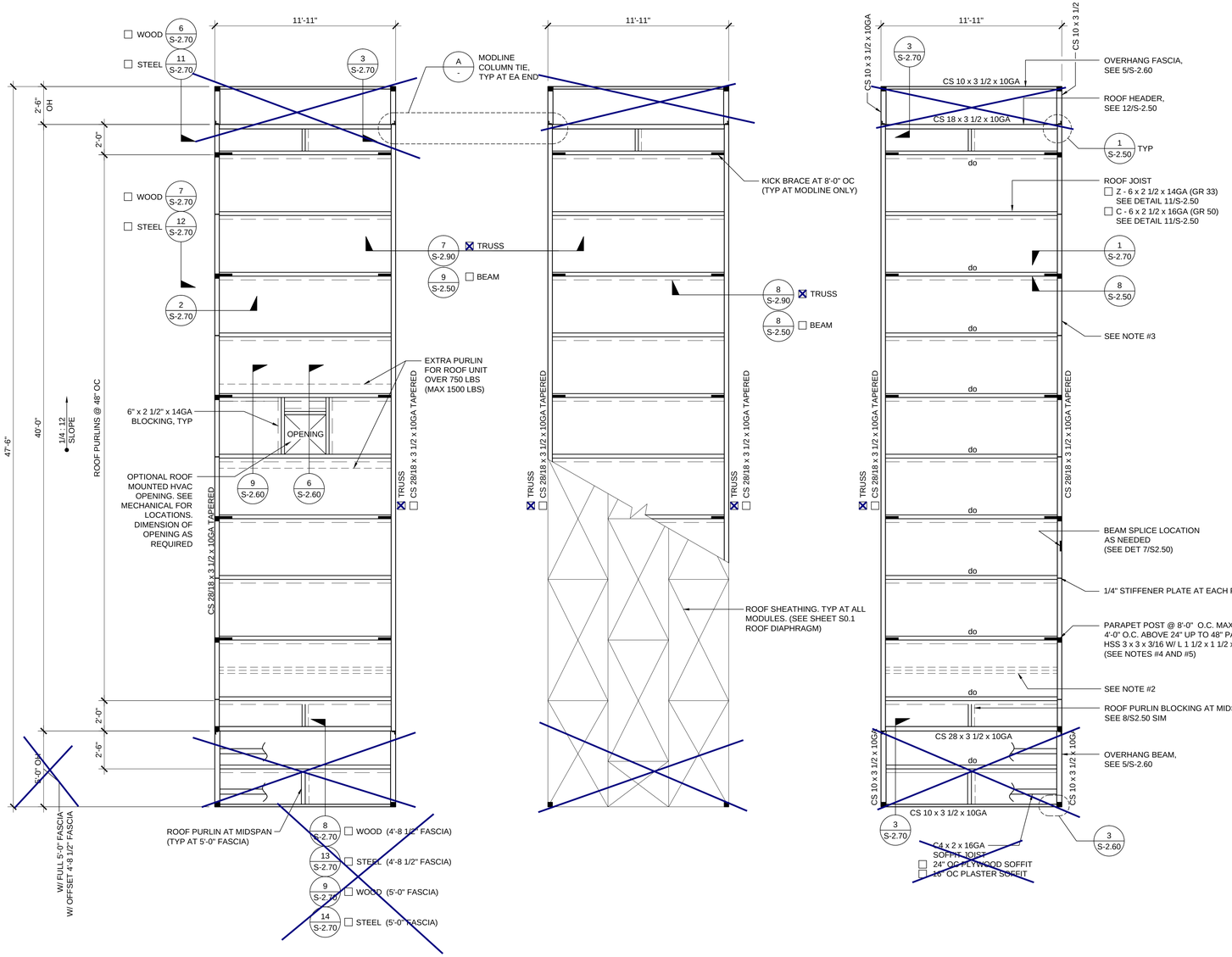
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

P.C. SHEET NUMBER

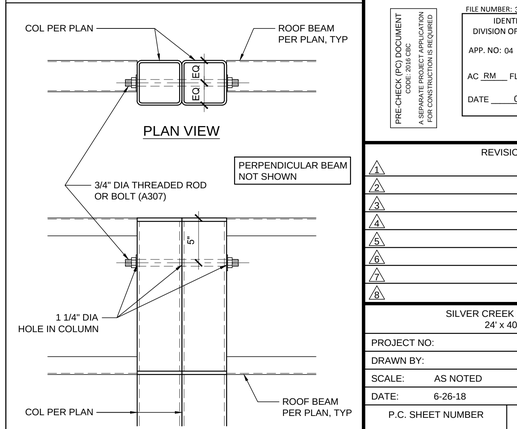
S-1.60

PHASE III



NOTES

1. FOR WALL MOUNTED HVAC UNIT, PROVIDE OPENING THROUGH REAR ROOF HEADER WHERE IT OCCURS. SEE FLOOR PLAN FOR HVAC LOCATION. SEE 5,15 / S-2.50 OR 5,15/S-2.51 FOR DETAILS
2. OPTIONAL PURLIN FOR FIRE SPRINKLER LINE AS NEEDED. LOCATION OF FIRE SPRINKLER PURLIN TO BE DETERMINED BY SITE STIFFENER PLATE OR ANGLE BRACE REQUIRED AT THIS LOCATION. FOR FIRE SPRINKLER LINE SIDE BEAM PENETRATION, SEE 14 / S-2.50 OR 14 / S-2.51 DETAILS.
3. FOR OPTIONAL SIDE BEAM OPENING SEE 10, 15/S-2.50 OR 10, 15/S-2.51 FOR DETAILS
4. PARAPET HSS POST AND KICK BRACING REQUIRED WHERE PARAPET HEIGHT IS OVER 9" - SEE 1,2/S-2.70
5. PARAPET HEIGHT TO BE DETERMINED BY ARCHITECT BEFORE FABRICATION. (4" MIN. TO 4'-0" MAX.) (SEE ARCHITECTURAL ELEVATION SHEET)



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SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF FRAMING PLAN
PARAPET
MONO SLOPE

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CCR, Title 24 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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2	
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SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

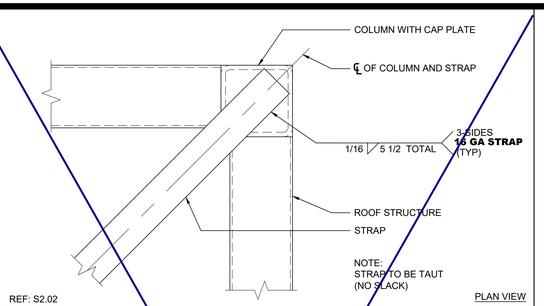
P.C. SHEET NUMBER

S-2.03

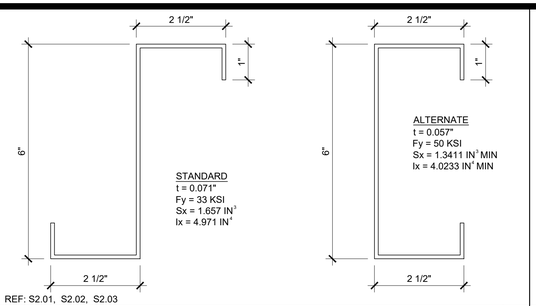
PHASE III

ROOF FRAMING PLAN — SCALE: 1/4" = 1' - 0" | 1

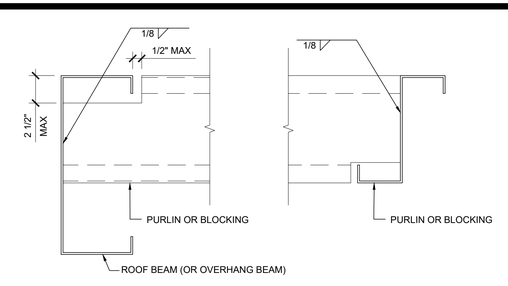
MODLINE TIE — SCALE : 1 1/2" = 1'-0" | A



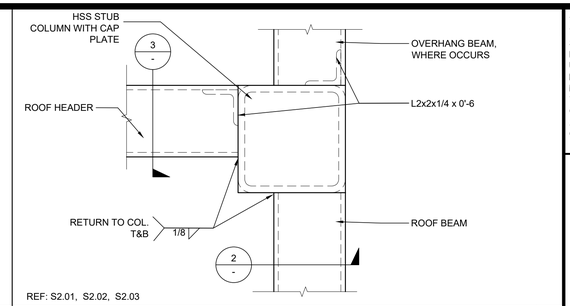
ROOF BRACING STRAP @ END WALL | SCALE : 3"=1'-0" | 16



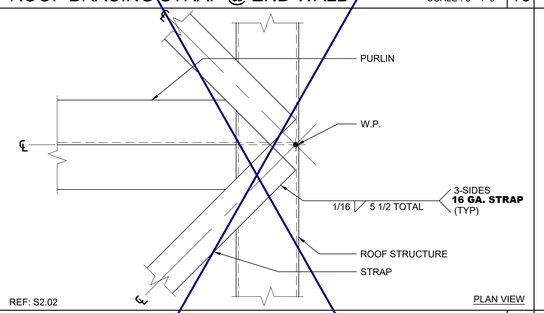
ROOF PURLIN | SCALE : 6"=1'-0" | 11



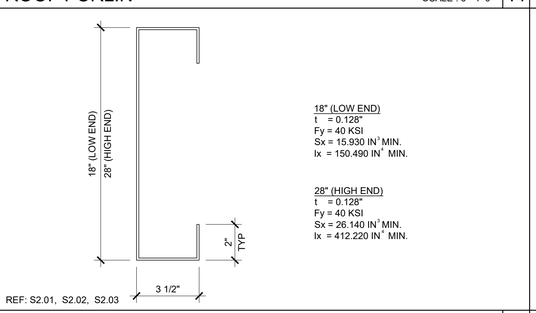
TYPICAL PURLIN CONNECTION DETAIL | SCALE : 3" = 1'-0" | 6



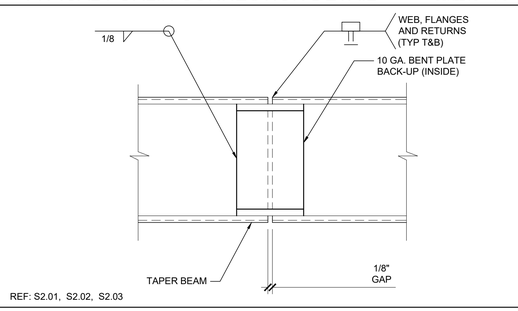
COLUMN AT ROOF - PLAN | SCALE : 3" = 1'-0" | 1



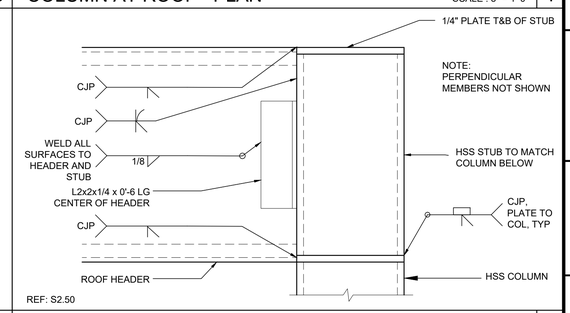
ROOF BRACING STRAP @ SIDE WALL | SCALE : 3"=1'-0" | 17



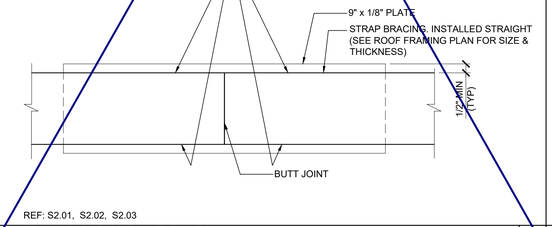
ROOF HEADER | SCALE : NTS | 12



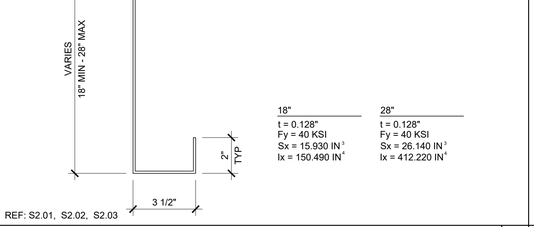
BEAM SPLICE | SCALE: 3" = 1'-0" | 7



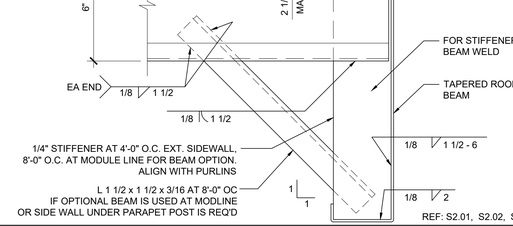
COLUMN AT ROOF - SECTION | SCALE : 3" = 1'-0" | 2



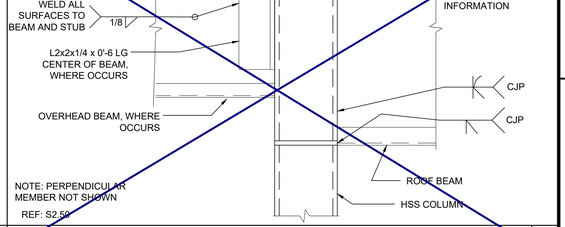
STRAP SPLICE DETAIL | SCALE : 6" = 1'-0" | 18



SIDE BEAM | SCALE : NTS | 13

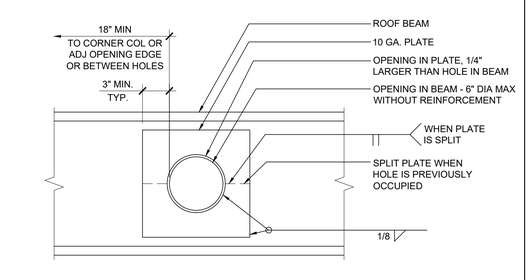


PURLIN TO ROOF BEAM @ STIFFENER | SCALE : 3"=1'-0" | 8

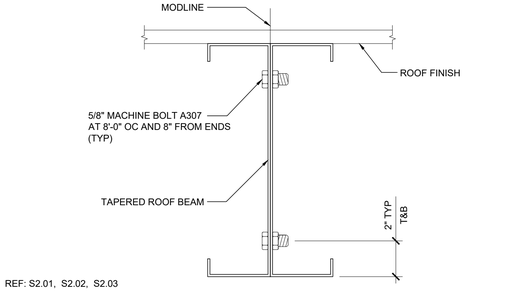


COLUMN AT ROOF OVERHANG | SCALE : 3" = 1'-0" | 3

	19



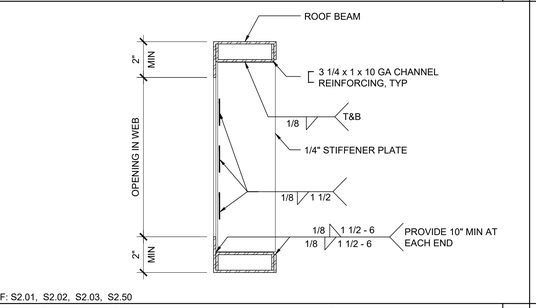
SIDEWALL BEAM PENETRATION | SCALE : 1 1/2"=1'-0" | 14



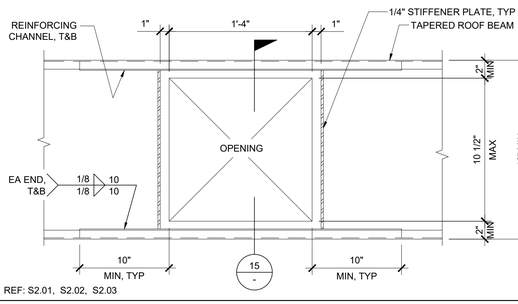
MODULE CONNECTION AT ROOF (OPTION) | SCALE : 3"=1'-0" | 9

NOT USED | 4

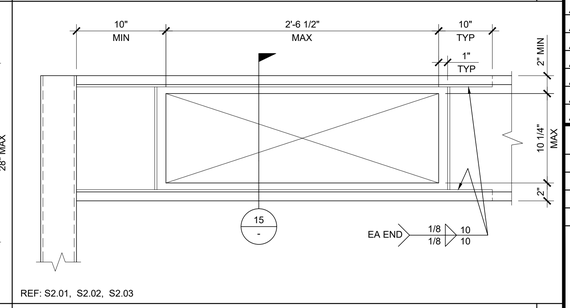
	20



WEB OPENING AT ROOF BEAM (OPTION) | SCALE : 3" = 1'-0" | 15



OPENING AT ROOF BEAM (OPTION) | SCALE : 1 1/2" = 1'-0" | 10



OPENING AT HEADER | SCALE : 1 1/2"=1'-0" | 5

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SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF FRAMING DETAILS
MONO SLOPE

REGISTERED PROFESSIONAL ENGINEER
JOHN W STANLEY
24175
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PRE-CHECK (PC) DOCUMENT
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DATE 07/24/2018

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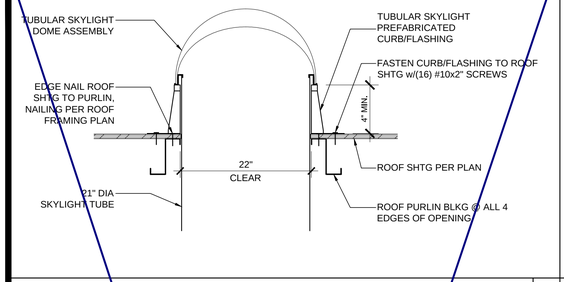
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER

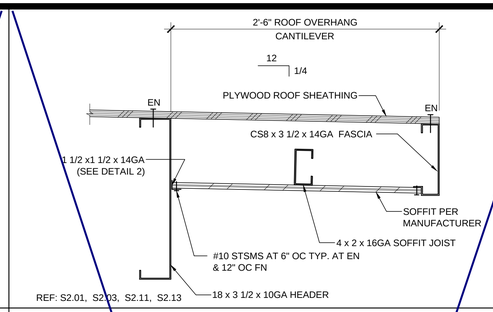
S-2.50

PHASE III



TUBULAR SKYLIGHT SECTION

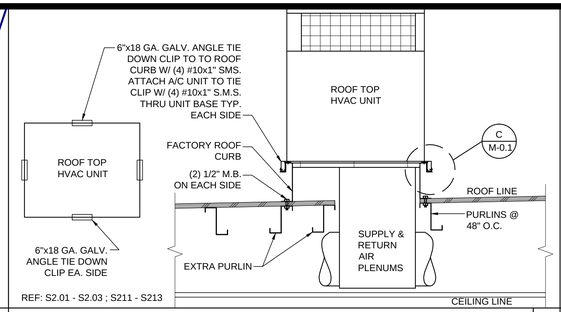
SCALE : 1" = 1'-0" | 16



REF: S2.01, S2.03, S2.11, S2.13

REAR OVERHANG SECTION

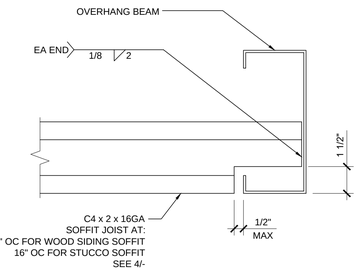
SCALE : 1 1/2" = 1'-0" | 11



REF: S2.01 - S2.03 ; S211 - S213

HVAC CURB ATTACHMENT

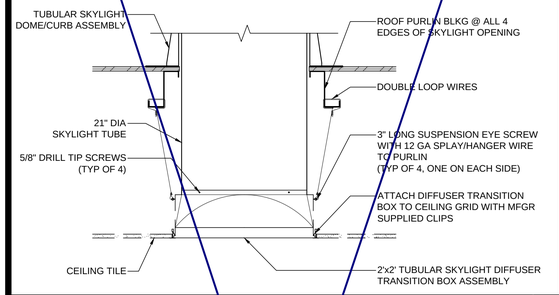
SCALE : 3/4" = 1'-0" | 6



REF: S3.01

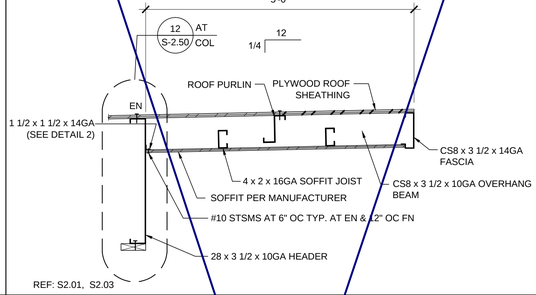
SOFFIT JOIST TO OVERHANG BEAM

SCALE : 3"=1'-0" | 1



TUBULAR SKYLIGHT DIFFUSER SECTION

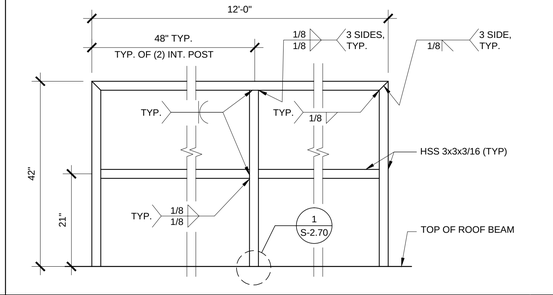
SCALE : 1" = 1'-0" | 17



REF: S2.01, S2.03

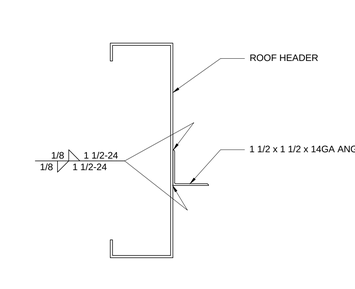
FRONT OVERHANG SECTION - MONO SLOPE

SCALE: 3/4" = 1'-0" | 12



GUARDRAIL AT SIDEWALL

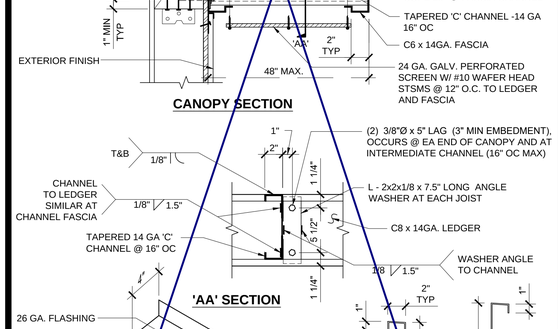
SCALE : 3/4"=1'-0" | 7



REF: S3.01

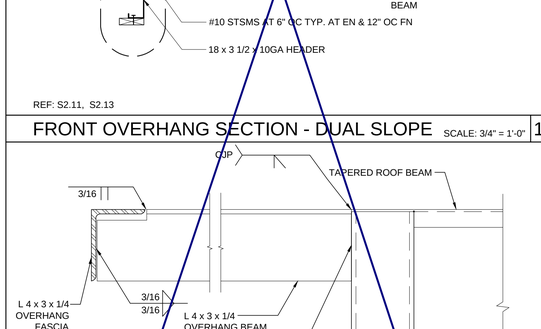
SOFFIT ANGLE TO HEADER CONNECTION

SCALE : 3"=1'-0" | 2



OPTIONAL CANOPY

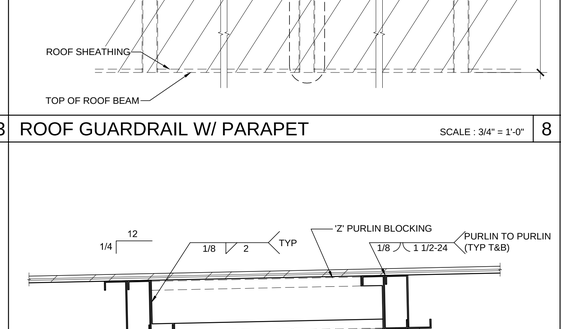
SCALE : 1 1/2" = 1'-0" | 20



REF: S2.11, S2.13

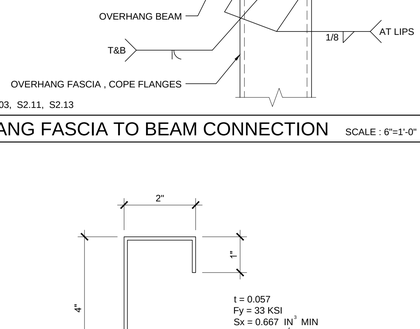
FRONT OVERHANG SECTION - DUAL SLOPE

SCALE: 3/4" = 1'-0" | 13



ROOF GUARDRAIL W/ PARAPET

SCALE : 3/4" = 1'-0" | 8



REF: S2.01, S2.03, S2.11, S2.13

OVERHANG FASCIA TO BEAM CONNECTION

SCALE : 6"=1'-0" | 3

REF: S2.02, S2.12

5'-0" ROOF OVERHANG AT 0.030" ROOF

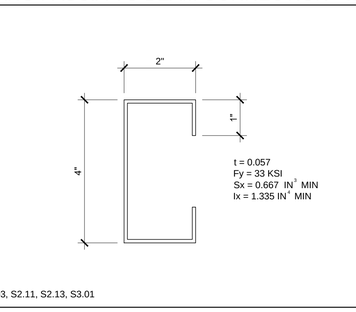
SCALE : 3"=1'-0" | 14

REF: S2.01 - S2.03 ; S211 - S213

*EXTRA PURLIN FOR HVAC ROOF UNIT OVER 750 LBS.

DOUBLE PURLINS AT HVAC

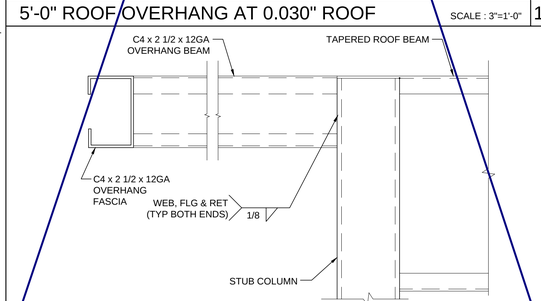
SCALE: 1 1/2" = 1'-0" | 9



REF: S2.01, S2.03, S2.11, S2.13, S3.01

SOFFIT JOIST

SCALE : 6"=1'-0" | 4

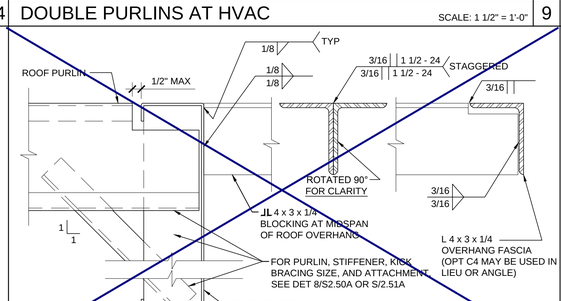


REF: S2.02, S2.12

OPTIONAL

5'-0" ROOF OVERHANG AT 0.030" ROOF

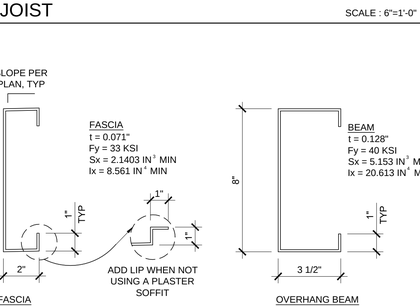
SCALE : 3" = 1'-0" | 15



REF: S2.02, S2.12

OVERHANG SUPPORT TO ROOF HDR @ STIFFENER

SCALE : 3"=1'-0" | 10



REF: S2.01, S2.03, S2.11, S2.13

OVERHANG FASCIA & BEAM

SCALE : 3"=1'-0" | 5

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF FRAMING DETAILS

REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 24475 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

1	
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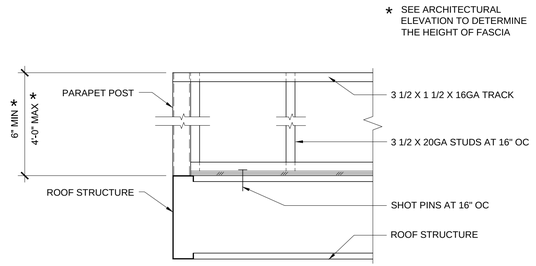
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

P.C. SHEET NUMBER

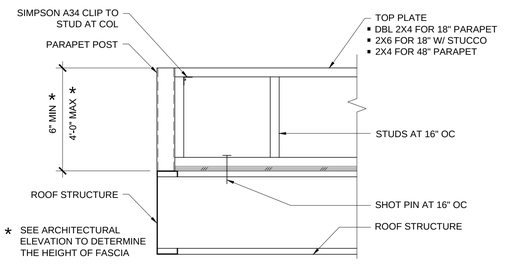
S-2.60

PHASE III



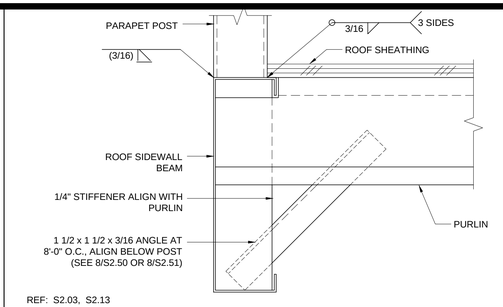
REF: S2.03, S2.13

16 PARAPET STEEL METAL FRAMING AT CORNER SCALE : 1" = 1'-0"



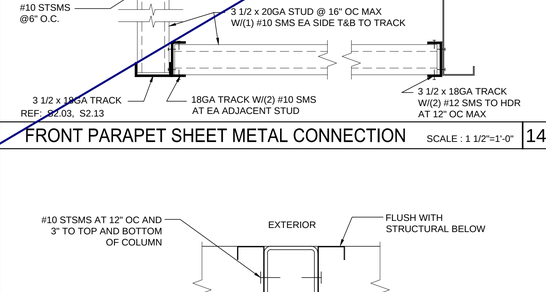
REF: S2.03, S2.13

11 PARAPET WOOD FRAMING AT CORNER SCALE : 1" = 1'-0"



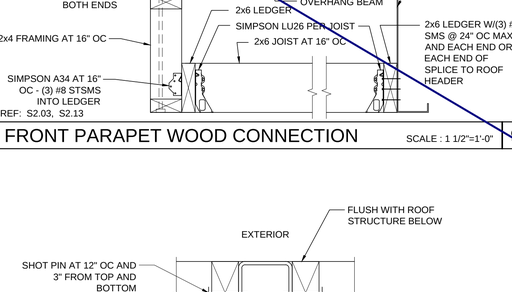
REF: S2.03, S2.13

6 TUBE STEEL TO BEAM AT SIDEWALL SCALE : 3"=1'-0" 1



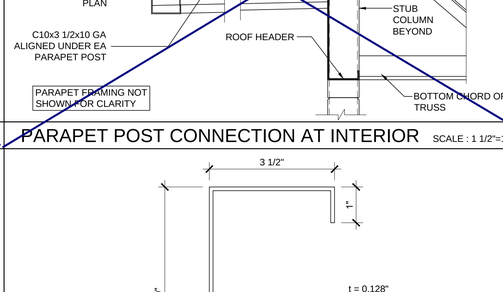
REF: S2.03, S2.13

17 PARAPET STEEL METAL FRAMING AT SIDEWALL SCALE : 1"=1'-0"



REF: S2.03, S2.13

12 PARAPET WOOD FRAMING AT SIDEWALL SCALE : 1"=1'-0"



REF: S2.03, S2.13

7 PARAPET POST WITH SLEEVE OPTION SCALE : 1 1/2"=1'-0" 2

REF: S2.03, S2.13

18 FRONT PARAPET STEEL METAL CONNECTION (OFFSET FASCIA) SCALE : 1 1/2"=1'-0"

REF: S2.03, S2.13

13 FRONT PARAPET WOOD CONN. (OFFSET FASCIA) SCALE : 1 1/2"=1'-0"

REF: S2.03, S2.13

8 PARAPET POST CONNECTION AT MODLINE SCALE : 1 1/2"=1'-0" 3

REF: S2.03, S2.13

19 FRONT PARAPET SHEET METAL CONNECTION SCALE : 1 1/2"=1'-0"

REF: S2.03, S2.13

14 FRONT PARAPET WOOD CONNECTION SCALE : 1 1/2"=1'-0"

REF: S2.03, S2.13

9 PARAPET POST CONNECTION AT INTERIOR SCALE : 1 1/2"=1'-0" 4

REF: S2.70

20 PARAPET SHEET METAL FRAMING TO TUBE STEEL SCALE : 3"=1'-0"

REF: S2.70

15 PARAPET WOOD FRAMING TO TUBE STEEL SCALE : 3"=1'-0"

10 OVERHANG FASCIA/BEAM @ PARAPET SCALE : 6"=1'-0" 5

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SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF FRAMING DETAILS
PARAPET

REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 24075 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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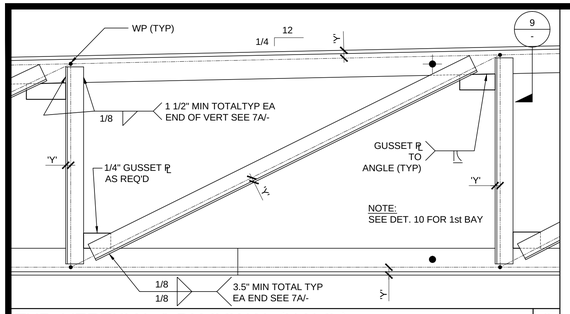
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

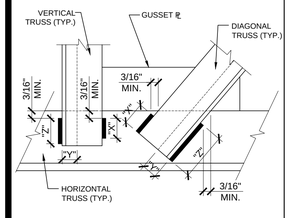
P.C. SHEET NUMBER
S-2.70

PHASE III



TYP. VERTICAL & DIAGONAL (U.N.O.)

SCALE: 1 1/2" = 1' - 0" | 6

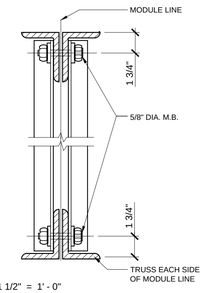


"X" = 1/3 OF TOTAL LENGHT OF WELD REQUIRED, ON SIDE WITHOUT LEG

"Z" = 2/3 OF TOTAL LENGHT OF WELD REQUIRED, ON SIDE WITH LEG

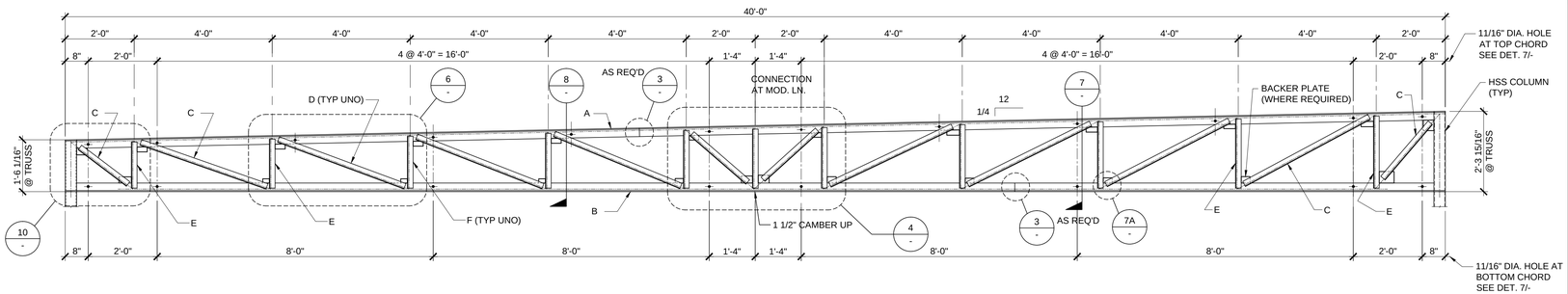
SCALE: N.T.S.

FILLET WELD TERMINATION | 7A



SCALE: 1 1/2" = 1' - 0"

CONNECTION @ MODULE LINE | 7



NOTES:

1. SEE SHEET S-0.1 FOR STEEL GRADES.
2. REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70
3. VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURERS SPECIFICATIONS
4. BOLTS AND NUTS GRADES TO BE A307

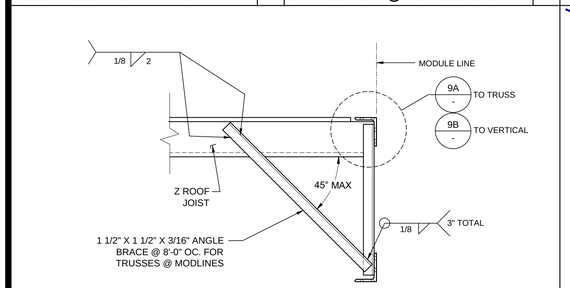
REF: ROOF FRAMING PLAN

TRUSS MARK:			Y=
A	TOP CHORD	4" x 3" x 5/16" (LLV)	1 1/4
B	BOTTOM CHORD	4" x 3" x 5/16" (LLV)	1 1/4
C	END DIAGONALS (2 EACH END)	2" x 2" x 10 GA.	9/16
D	TYPICAL DIAGONALS	2" x 2" x 10 GA.	9/16
E	END VERTICAL (2 EACH END)	1 1/2" x 1 1/2" x 10 GA.	7/16
F	TYPICAL VERTICALS	1 1/2" x 1 1/2" x 10 GA.	7/16

NOTE; "Y" MAY BE 1/4" MAX. OUT OF ALIGNMENT

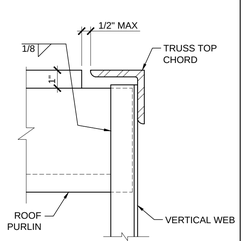
MONO SLOPE TRUSS

SCALE: 1/2" = 1' - 0" | 1



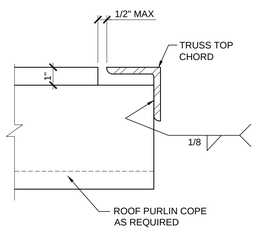
BRACE @ TRUSS & MATING LINE

SCALE: 1 1/2" = 1' - 0" | 8

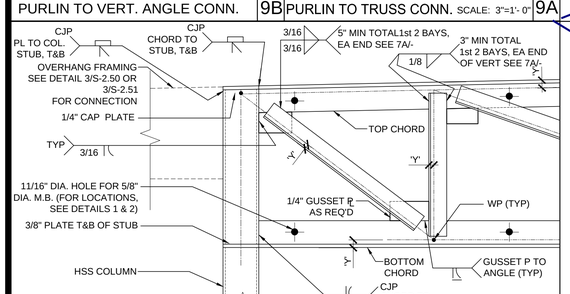


SCALE: 3" = 1' - 0"

PURLIN TO VERT. ANGLE CONN. | 9B

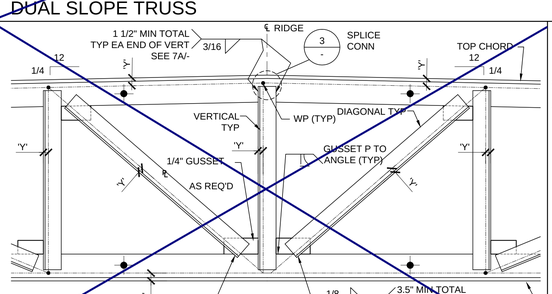


PURLIN TO TRUSS CONN. SCALE: 3"=1'- 0" | 9A



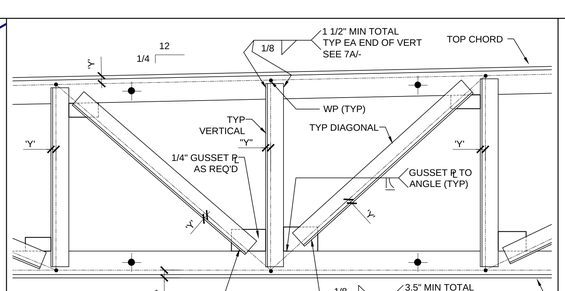
TRUSS TO COLUMN / OH FRAME CONN.

SCALE: 1 1/2" = 1' - 0" | 10



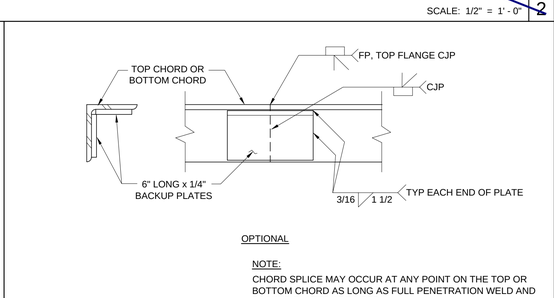
VERT. & DIAG. AT MID-POINT

SCALE: 1 1/2" = 1' - 0" | 5



VERT. & DIAG. AT MID- POINT

SCALE: 1 1/2" = 1' - 0" | 4



OPTIONAL

NOTE:

CHORD SPLICE MAY OCCUR AT ANY POINT ON THE TOP OR BOTTOM CHORD AS LONG AS FULL PENETRATION WELD AND BACKUP PLATES ARE USED

TRUSS CHORD SPLICE

SCALE: 3" = 1' - 0" | 3

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SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF FRAMING DETAILS
TRUSS

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24475
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED
CODE: 2019 CBC

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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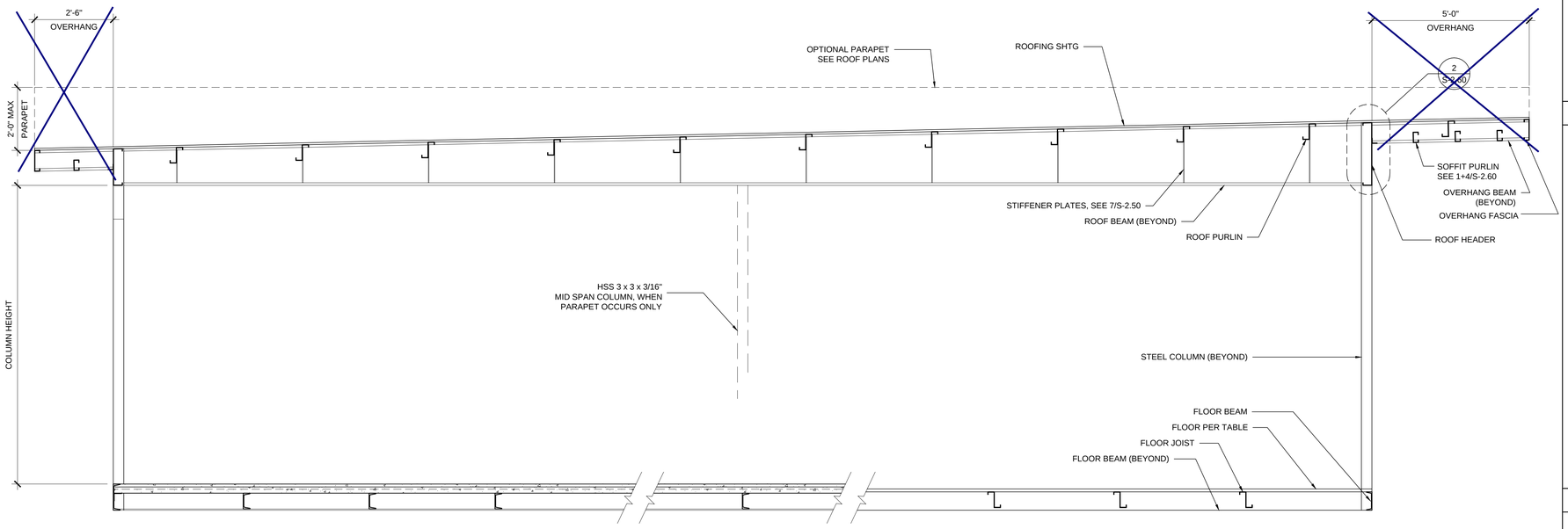
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

P.C. SHEET NUMBER

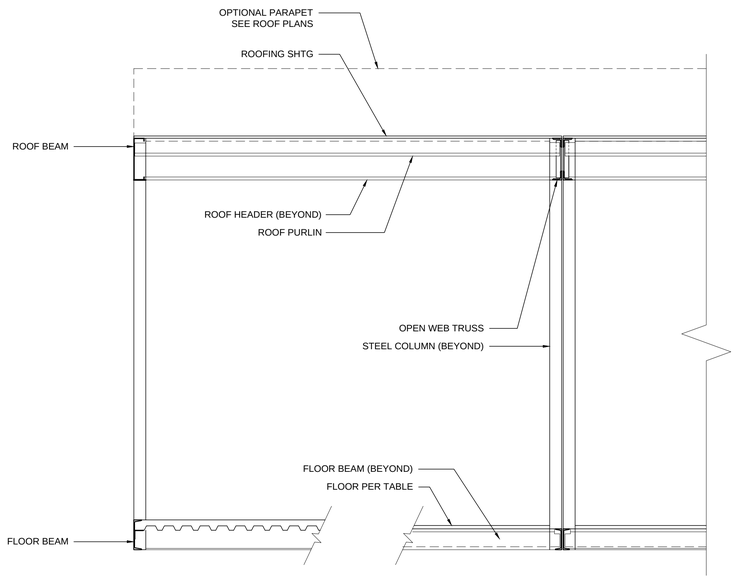
S-2.90

PHASE III



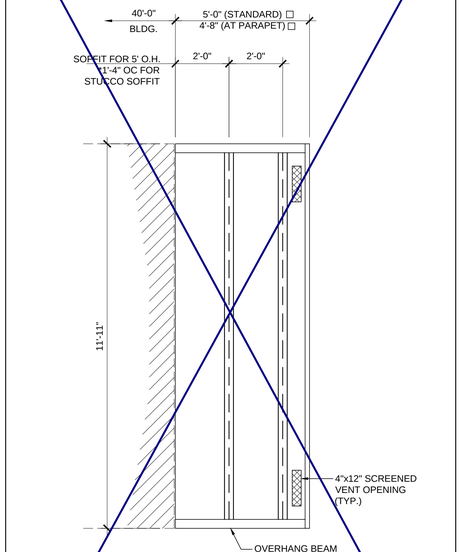
BUILDING SECTION

SCALE: 1/2" = 1'-0" | 1



BUILDING SECTION

SCALE: 1/2" = 1'-0" | 3



ENCL. SOFFIT PLAN-OPT.

SCALE: 3/8" = 1'-0" | 2

NOTES

1. ALL INFORMATION SUCH AS DETAILS, SECTIONS, CONNECTIONS, AND MATERIAL ATTACHMENT SHALL BE REFERENCED FROM OTHER SHEETS WITHIN THIS SET WHERE IT APPLIES.

FLOOR CONSTRUCTION

- ☐ WOOD FLOOR
- ☒ CONCRETE FLOOR

HSS COLUMN SCHEDULE

COLUMN HEIGHT	NO PARAPET	ROOF W/ PARAPET 18" OR LESS	ROOF W/ PARAPET 19" TO 48"
☐ 9'-0"	☐ 6 x 6 x 1/4	☐ 6 x 6 x 1/4 *	☐ 6 x 6 x 1/4 *
☒ 9'-6"	☐ ~~6 x 6 x 1/4~~	☐ ~~6 x 6 x 1/4 *~~	☒ 6 x 6 x 1/4 *
☐ 10'-0"	☐ 6 x 6 x 1/4	☐ 6 x 6 x 1/4 *	☐ 6 x 6 x 3/8 *
☐ 10'-6"	☐ 6 x 6 x 1/4 *	☐ 6 x 6 x 1/4 *	☐ 6 x 6 x 3/8 *

FLOOR BEAM

C7x9.8 (TYP) PERIMETER BEAM FOR WOOD FLOOR
*C8x11.5 PERIMETER BEAM FOR WOOD FLOOR
C10x15.3 TYP. PERIMETER BEAM FOR CONCRETE FLOOR

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Building for the Next Generation

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

BUILDING SECTIONS
MONO SLOPE

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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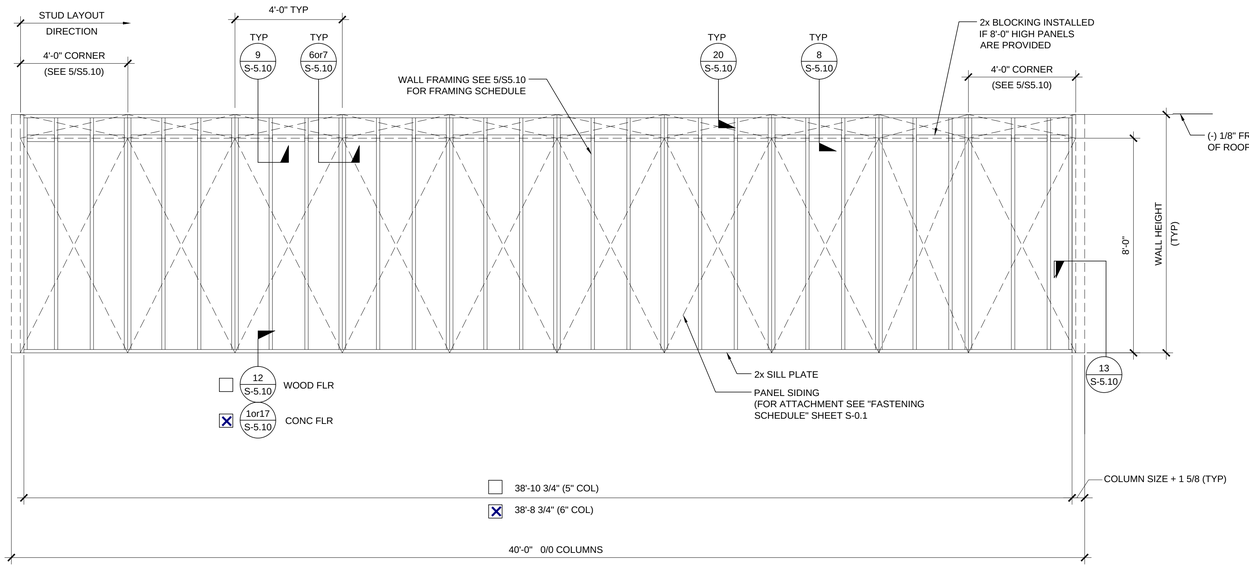
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

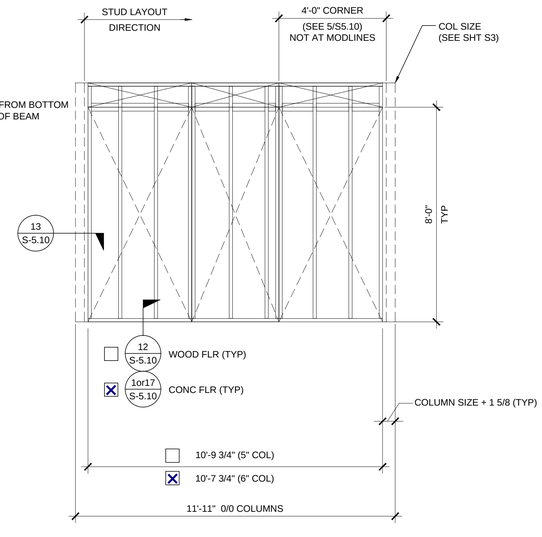
P.C. SHEET NUMBER

S-3.01

PHASE III

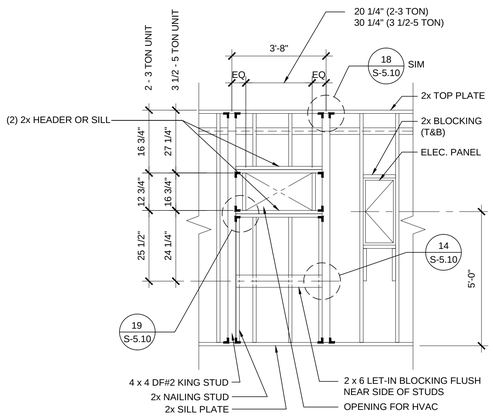


TYPICAL SIDE WALL

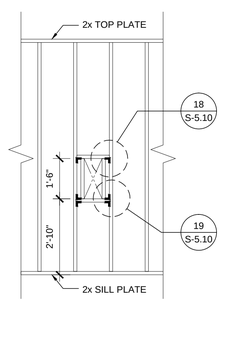


TYPICAL END WALL

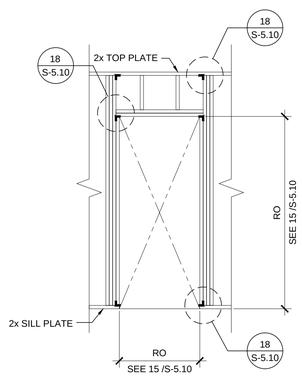
NOTE:
IF PARAPET IS USED & HIGHER THAN 18", END WALLS MUST BE 2x6 @ 24" O.C.



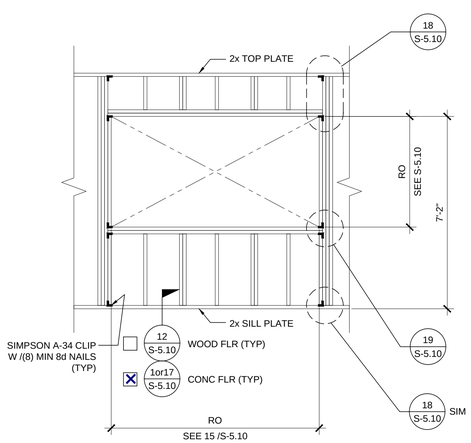
TYPICAL HVAC



FIRE EXTINGUISHER CABINET BLOCKOUT



TYPICAL DOOR



TYPICAL WINDOW

NOTES

WALL HEIGHT SCHEDULE

COLUMN HEIGHT	9'-0"	9'-6"	10'-0"	10'-6"
☒ CONCRETE FLOOR	8'-11 7/8"	9'-5 7/8"	9'-11 7/8"	10'-5 7/8"
☐ WOOD FLOOR	8'-10 3/4"	9'-4 3/4"	9'-10 3/4"	10'-4 3/4"

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREI

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

WALL FRAMING ELEVATIONS
WOOD STUDS

REGISTERED PROFESSIONAL ENGINEER
JOHN W STANLEY
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CCR, 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

1	
2	
3	
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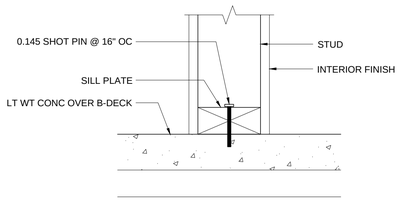
7	
8	

SILVER CREEK INDUSTRIES
24' x 40' PC

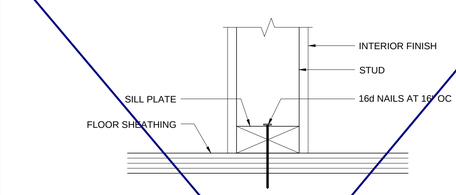
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER
S-5.00

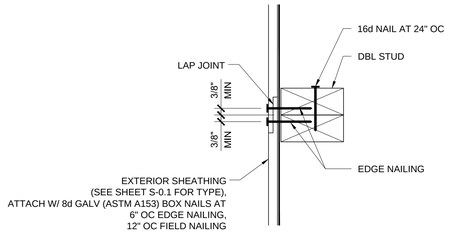
PHASE III



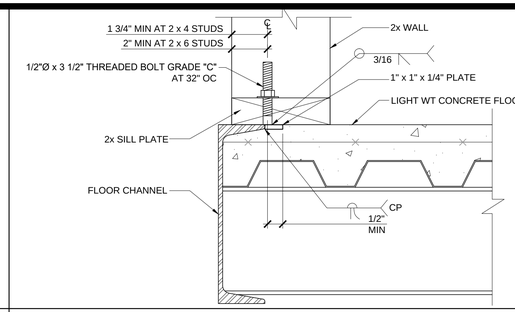
PARTITION CONNECTION AT CONC FLOOR
SCALE : 3"=1'-0" | 16



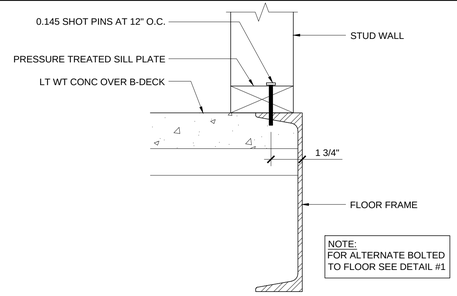
PARTITION CONNECTION AT WOOD FLOOR
SCALE : 3"=1'-0" | 11



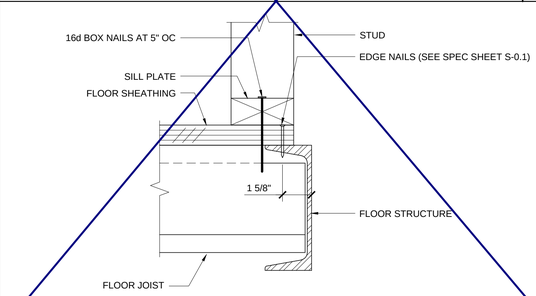
VERTICAL SHEATHING LAP JOINT
SCALE : 3"=1'-0" | 6



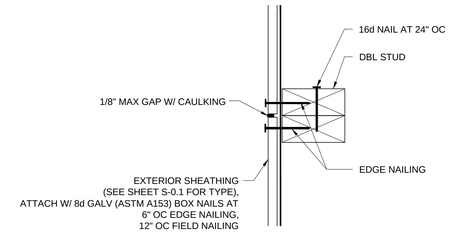
OPTIONAL BOLTED WALL TO FLOOR
SCALE : NTS | 1



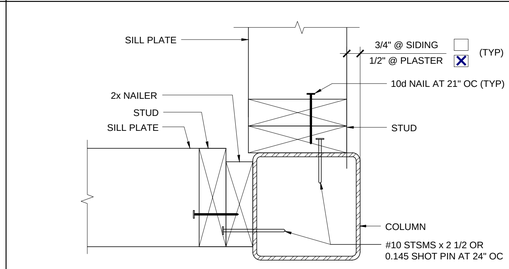
WALL SILL AT CONCRETE FLOOR
SCALE : 3"=1'-0" | 17



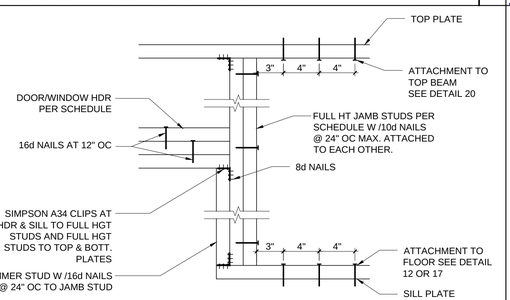
WALL SILL AT WOOD FLOOR
SCALE : 3"=1'-0" | 12



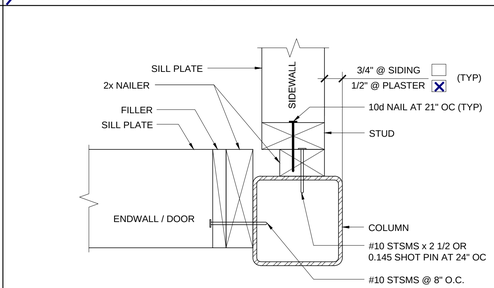
VERTICAL SHEATHING BUTT JOINT
SCALE : 3"=1'-0" | 7



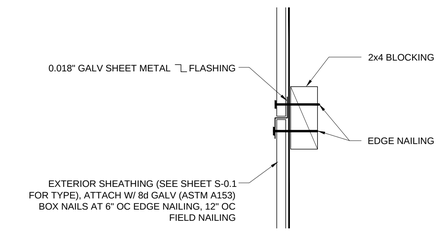
COLUMN AT ENDWALL (2x6)
SCALE : 3"=1'-0" | 2



DOOR/WINDOW HEADER AND JAMB
SCALE : 1 1/2"=1'-0" | 18



COLUMN AT ENDWALL (2x4)
SCALE : 3"=1'-0" | 13



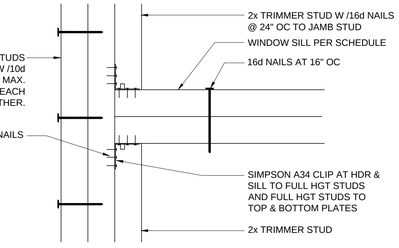
HORIZONTAL SHEATHING JOINT
SCALE : 3"=1'-0" | 8

COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE
LESS THAN 9'-6"	3070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2
	4070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2
	6040	NO PLASTER	(2)	2X4	HF	#2	(2)	2X4	HF	#2	(2)	2X4	HF	#2
		NO PLASTER (OPT)	(2)	2X4	DF	#2	(2)	2X4	DF	#2	(2)	2X4	DF	#2
	8040	NO PLASTER	(2)	2X4	HF	#2	(2)	2X4	HF	#2	(3)	2X4	HF	#2
		NO PLASTER (OPT)	(2)	2X4	DF	#2	(2)	2X4	DF	#2	(2)	2X4	DF	#2

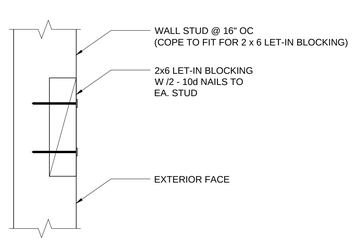
COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE
9'-6" TO 10'-6"	3070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2
	4070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2
	6040	NO PLASTER	(2)	2X4	HF	#2	(2)	2X4	HF	#2	(3)	2X4	HF	#2
		NO PLASTER (OPT)	(2)	2X4	DF	#2	(2)	2X4	DF	#2	(3)	2X4	DF	#2
	8040	NO PLASTER	(3)	2X4	HF	#2	(3)	2X4	HF	#2	(4)	2X4	HF	#2
		NO PLASTER (OPT)	(3)	2X4	DF	#2	(3)	2X4	DF	#2	(3)	2X4	DF	#2

NOTE:
2X4 WALL FRAMING NOT ALLOWED WITH PLASTER WALL FINISH

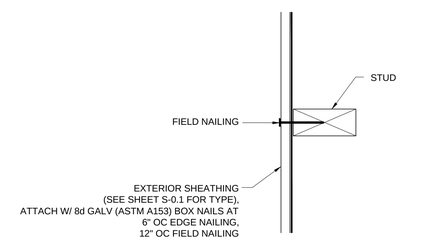
OPENING STUDS SCHEDULE
4



WINDOW SILL AND JAMB
SCALE : 3"=1'-0" | 19



LET-IN BLOCK ATTACHMENT
SCALE : 3"=1'-0" | 14

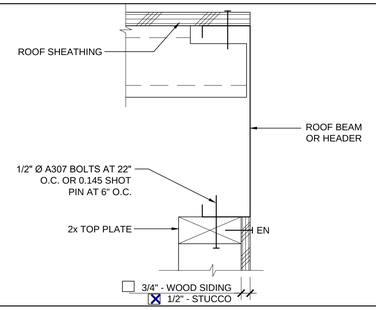


SECTION AT SHEATHING TO STUD ATTACHMENT
SCALE : 3"=1'-0" | 9

COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING					4" CORNER OF WOOD WALL FRAMING (ZONE 5)				
		NUMBER	SIZE	LUMBER	TYPE	OC	NUMBER	SIZE	LUMBER	TYPE	OC
LESS THAN 9'-6"	NO PLASTER	(1)	2X4	HF	#2	16" OC	(1)	2X4	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X4	DF	#2	16" OC	(1)	2X4	DF	#2	16" OC
9'-6" TO 10'-6"	NO PLASTER	(1)	2X4	HF	#2	16" OC	(1)	2X4	HF	#2	12" OC
	NO PLASTER (OPT)	(1)	2X4	DF	#2	16" OC	(1)	2X4	DF	#2	16" OC

NOTE:
2X4 WALL FRAMING NOT ALLOWED WITH PLASTER WALL FINISH

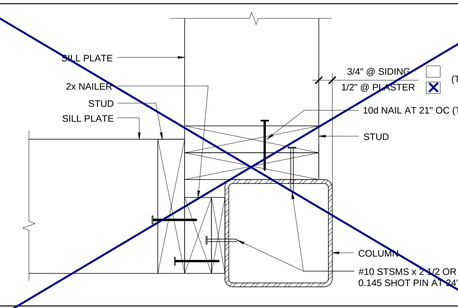
WALL FRAMING SCHEDULE
5



TOP PLATE AT ROOF BEAM
SCALE : 3" = 1'-0" | 20

DOOR	WINDOW	STANDARD		WELDED FRAME	
2070		26"	85"	28 1/4"	86 1/4"
3070		38"	85"	40 1/4"	86 1/4"
4070		50"	85"	52 1/4"	86 1/4"
6070		74"	85"	76 1/4"	86 1/4"
	4040	47 3/4"	47 5/8"	52 1/4"	52 1/4"
	6040	71 3/4"	47 5/8"	76 1/4"	52 1/4"
	8040	95 3/4"	47 5/8"	100 1/4"	52 1/4"
	6020	71 3/4"	23 5/8"	76 1/4"	28 1/4"
	8020	95 3/4"	23 5/8"	100 1/4"	28 1/4"

ROUGH OPENING SCHEDULE
15



COLUMN AT ENDWALL (2x8)
SCALE : 3"=1'-0" | 10

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

WALL FRAMING DETAILS
WOOD STUDS

REGISTERED PROFESSIONAL ENGINEER
JOHN W STANLEY
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS
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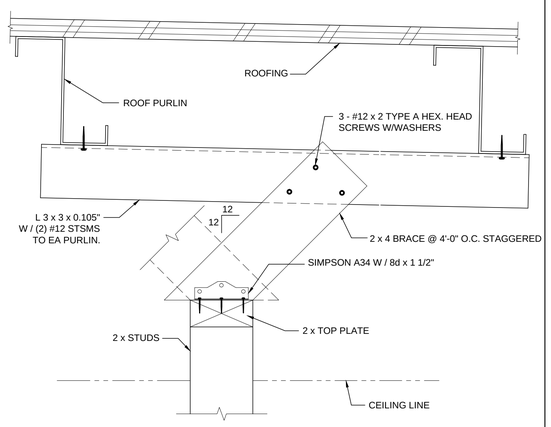
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

P.C. SHEET NUMBER
S-5.10

PHASE III



INTERIOR PARTITION

SCALE : 3" = 1'-0" | 14

COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER **	SIZE **	LUMBER	TYPE	NUMBER **	SIZE **	LUMBER	TYPE	NUMBER **	SIZE **	LUMBER	TYPE
LESS THAN 9'-6"	3070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
	4070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
	6040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
	8040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
		W/ PLASTER	(2)	2X6	HF	#2	(2)	2X6	HF	#2	(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER **	SIZE **	LUMBER	TYPE	NUMBER **	SIZE **	LUMBER	TYPE	NUMBER **	SIZE **	LUMBER	TYPE
9'-6" TO 10'-6"	3070	NO PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(2)	2X6	DF	#2
	4070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(2)	2X6	DF	#2
	6040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
	8040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(3)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
		W/ PLASTER	(2)	2X6	HF	#2	(2)	2X6	HF	#2	(3)	2X6	HF	#2
		W/ PLASTER (OPT)	(2)	2X6	DF	#2	(2)	2X6	DF	#2	(3)	2X6	DF	#2

**2x6 AND 2x8 STUD OPTIONS MAY BE SUBSTITUTED IN LIEU OF 2x4 - NUMBER OF STUDS DO NOT CHANGE AND SHALL REMAIN THE SAME AS SHOWN ON SCHEDULE. SEE DETAILS 2 OR 10/-

2x6 OPENING STUDS SCHEDULE

19

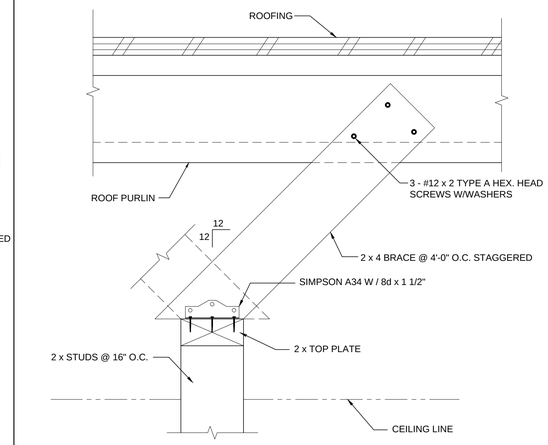
COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING					4" CORNER OF WOOD WALL FRAMING (ZONE 5)				
		NUMBER **	SIZE **	LUMBER	TYPE	OC	NUMBER **	SIZE **	LUMBER	TYPE	OC
LESS THAN 9'-6"	NO PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC
	W/ PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC
9'-6" TO 10'-6"	NO PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC
	W/ PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC

**2x6 AND 2x8 STUD OPTIONS MAY BE SUBSTITUTED IN LIEU OF 2x4 - NUMBER OF STUDS DO NOT CHANGE AND SHALL REMAIN THE SAME AS SHOWN ON SCHEDULE.

NOTE: 2x6 & 2x8 SPACING MAY BE 24" O.C. OPTIONAL

2x6 WALL FRAMING SCHEDULE

20



INTERIOR PARTITION

SCALE : 3" = 1'-0" | 12

COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER **	SIZE **	LUMBER	TYPE	NUMBER **	SIZE **	LUMBER	TYPE	NUMBER **	SIZE **	LUMBER	TYPE
LESS THAN 9'-6"	3070	NO PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
	4070	NO PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
	6040	NO PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
	8040	NO PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER **	SIZE **	LUMBER	TYPE	NUMBER **	SIZE **	LUMBER	TYPE	NUMBER **	SIZE **	LUMBER	TYPE
9'-6" TO 10'-6"	3070	NO PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
	4070	NO PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
	6040	NO PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
	8040	NO PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2

**2x6 AND 2x8 STUD OPTIONS MAY BE SUBSTITUTED IN LIEU OF 2x4 - NUMBER OF STUDS DO NOT CHANGE AND SHALL REMAIN THE SAME AS SHOWN ON SCHEDULE. SEE DETAILS 2 OR 10/-

2x8 OPENING STUDS SCHEDULE

14

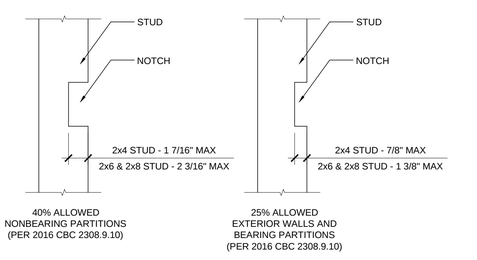
COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING					4" CORNER OF WOOD WALL FRAMING (ZONE 5)				
		NUMBER **	SIZE **	LUMBER	TYPE	OC	NUMBER **	SIZE **	LUMBER	TYPE	OC
LESS THAN 9'-6"	NO PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC
	W/ PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC
9'-6" TO 10'-6"	NO PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC
	W/ PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC

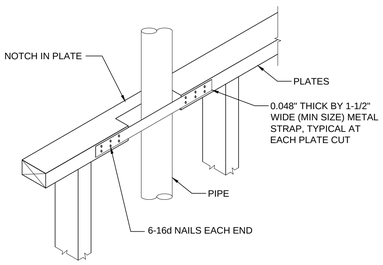
**2x6 AND 2x8 STUD OPTIONS MAY BE SUBSTITUTED IN LIEU OF 2x4 - NUMBER OF STUDS DO NOT CHANGE AND SHALL REMAIN THE SAME AS SHOWN ON SCHEDULE.

NOTE: 2x6 & 2x8 SPACING MAY BE 24" O.C. OPTIONAL

2x8 WALL FRAMING SCHEDULE

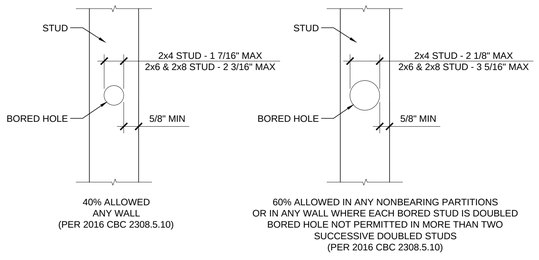
15





CUTTING AND NOTCHING

SCALE : 1 1/2" = 1'-0" | 7



BORED HOLES

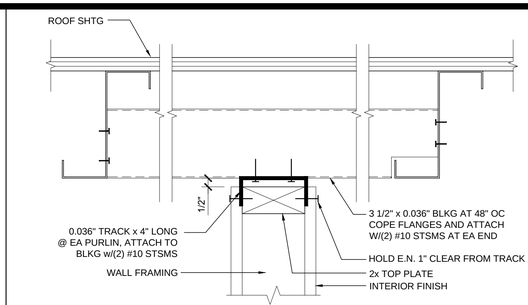
SCALE : 1 1/2" = 1'-0" | 8

NOT USED

9

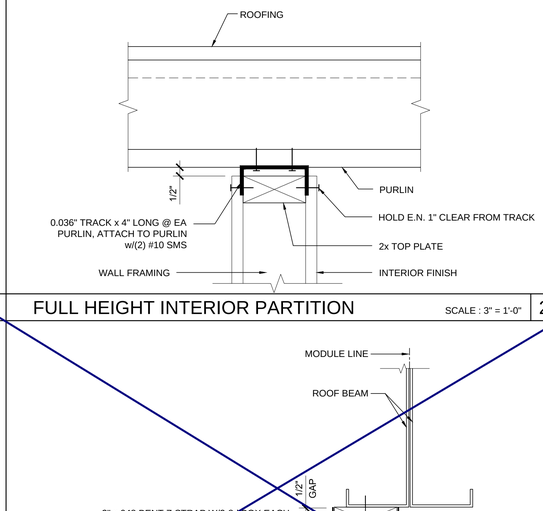
NOT USED

10



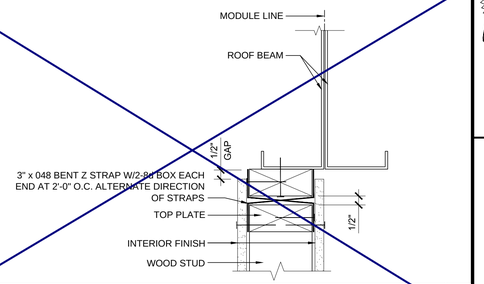
FULL HEIGHT INTERIOR PARTITION

SCALE : 3" = 1'-0" | 1



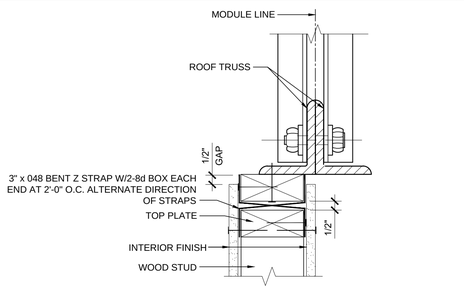
FULL HEIGHT INTERIOR PARTITION

SCALE : 3" = 1'-0" | 2



INTERIOR PARTITION WALL TO ROOF BEAM

SCALE : 3"=1'-0" | 3



INTERIOR PARTITION WALL TO ROOF TRUSS

SCALE : 3"=1'-0" | 4

NOT USED

5

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

WALL FRAMING DETAILS
WOOD STUDS

REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 24075 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

1	
2	
3	
4	
5	
6	
7	
8	

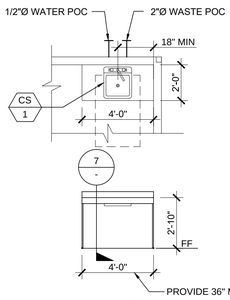
SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

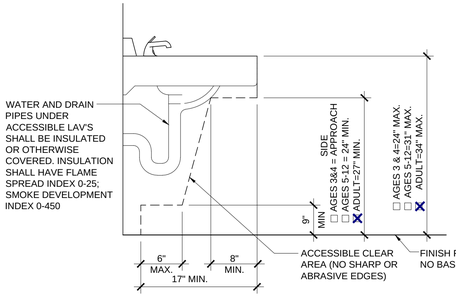
P.C. SHEET NUMBER

S-5.11

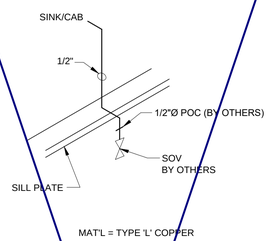
PHASE III



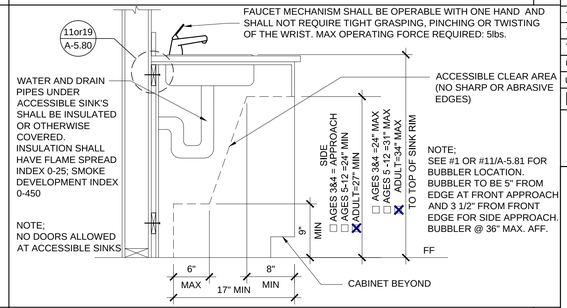
TYPICAL SINK CABINET 11



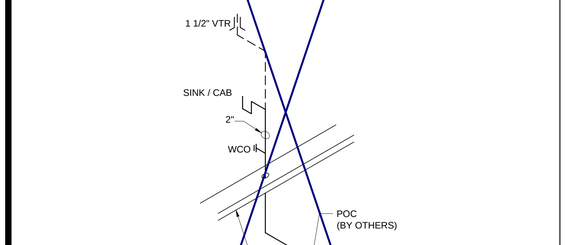
ACCESSIBLE LAV CLEARANCE SCALE: N.T.S. 6



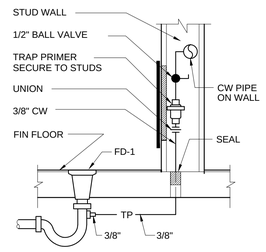
SINK CABINET COLD WATER SUPPLY SCALE: N.T.S. 12



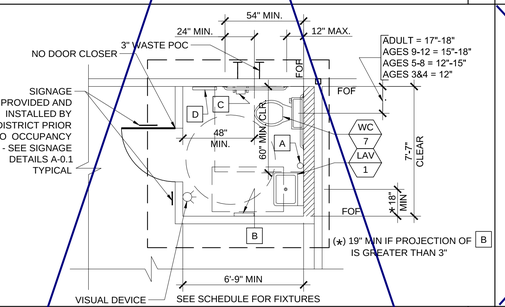
ACCESSIBLE SINK CABINET (OPTION) SCALE: N.T.S. 7



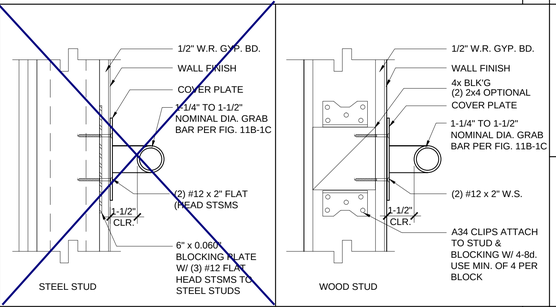
SINK CABINET WASTE 13



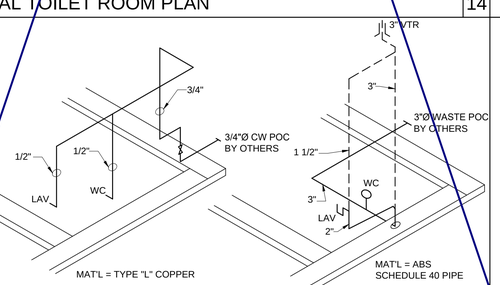
TRAP PRIMER TO FLOOR DRAIN SCALE: N.T.S. 8



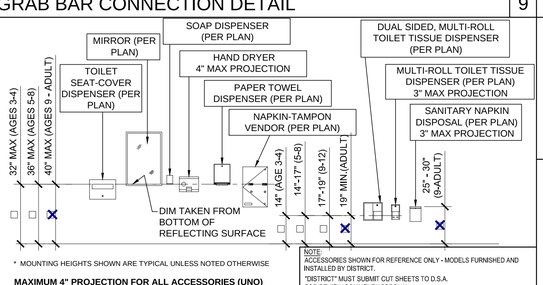
TYPICAL TOILET ROOM PLAN 14



GRAB BAR CONNECTION DETAIL 9



TOILET ROOM COLD WATER SUPPLY AND WASTE 15



TOILET ACCESSORIES MOUNTING HEIGHTS 10

THE DIVISION OF THE STATE ARCHITECT, OFFICE OF REGULATION SERVICES ACCEPTS THE FOLLOWING DIMENSIONS AS ADEQUATELY SERVING THE NEEDS OF CHILDREN IN PROJECTS UNDER THEIR JURISDICTION. THESE DIMENSIONS ARE BASED ON CBC TABLE 11B-604.9 SUGGESTED DIMENSIONS FOR SERVING CHILDREN AGES 3 TO 12.

ACCESSIBILITY DIMENSIONS	11B-604.9 SUGGESTED DIMS			
	ADULT	AGES 9 THROUGH 12	AGES 5 THROUGH 8	AGES 3 AND 4
TOILET CENTERING FROM WALL	17" - 18"	15" - 18"	12" - 15"	12"
TOILET SEAT HEIGHT (DIM TO TOP OF SEAT)	17" - 19"	15" - 17"	12" - 15"	11" - 12"
GRAB BAR HEIGHT (TO TOP)	33" - 36"	25" - 27"	20" - 25"	18" - 20"
TOILET PAPER IN FRONT OF TOILET	7" - 9"	7" - 9"	7" - 9"	7" - 9"
NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX.	12" MAX.	N/A	N/A
MIRROR HEIGHT (TO BOTTOM OF GLASS)	40" MAX.	40" MAX.	36" MAX.	32" MAX.
DISPENSER HEIGHT	19" MIN.	17" - 19"	14" - 17"	14"
LAVATORY/SINK TOP HEIGHT	34" MAX.	31" MAX.	31" MAX.	24" MAX.
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	24" MIN.	SIDE APPROACH
URINAL LIP HEIGHT	17" MAX.	17" MAX.	15" MAX.	13" MIN.
URINAL FLUSH HANDLE HEIGHT	44" MAX.	44" MAX.	37" MAX.*	32" MAX.*
DRINKING FOUNTAIN BUBBLER HT. (LOW)	36" MAX.	30" MAX.	30" MAX.	30" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	SIDE APPROACH	SIDE APPROACH	SIDE APPROACH
RAMP/STAIR HANDRAIL HEIGHT (TO TOP)	34" - 38"	34" - 38"	34" - 38"	34" - 38"

STANDARD DIMENSIONS	ALTERNATE HEIGHT (DIMS)			
	ADULT	AGES 9 THROUGH 12	AGES 5 THROUGH 8	AGES 3 AND 4
TOILET CENTERING FROM WALL/PARTITION	15" MIN	15" MIN	15" MIN	15" MIN
TOILET SEAT HEIGHT/DIM TO TOP OF SEAT	15"	15"	15"	15"
TOILET CLEARANCE/FRONT	24"	24"	24"	24"
URINAL LIP HEIGHT	24"	24"	18"	16"
URINAL CENTER FROM WALL/PARTITION	12"	12"	12"	12"

PLUMBING ACCESSORIES (REF. ONLY-MODELS FURNISHED AND INSTALLED BY DISTRICT U.N.O.)

A SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX. PROJECTION

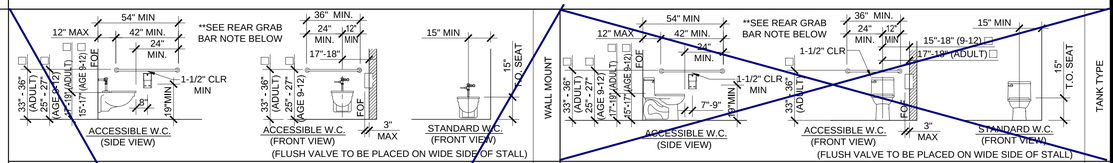
B PAPER TOWEL DISPENSER/TRASH BIN COMBO: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30x48 CLEAR SPACE OF FIXTURE

C TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION

D TOILET SEAT DISPENSER: SURFACE MOUNTED

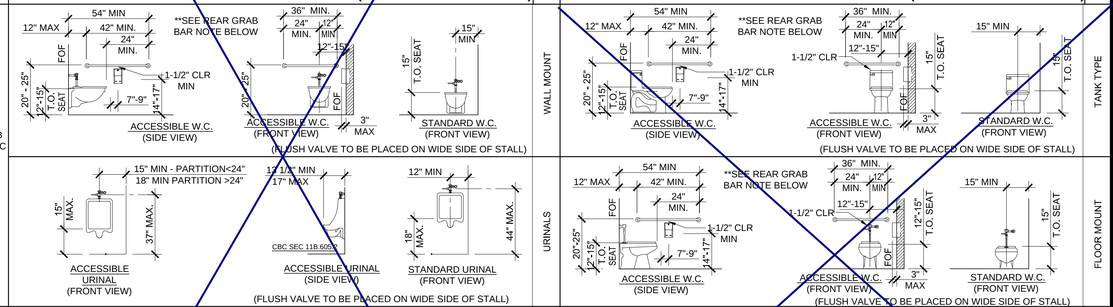
* 44" MAX. PER CODE

SEE SHEET P-1.03N FOR PLUMBING FIXTURE SCHEDULE

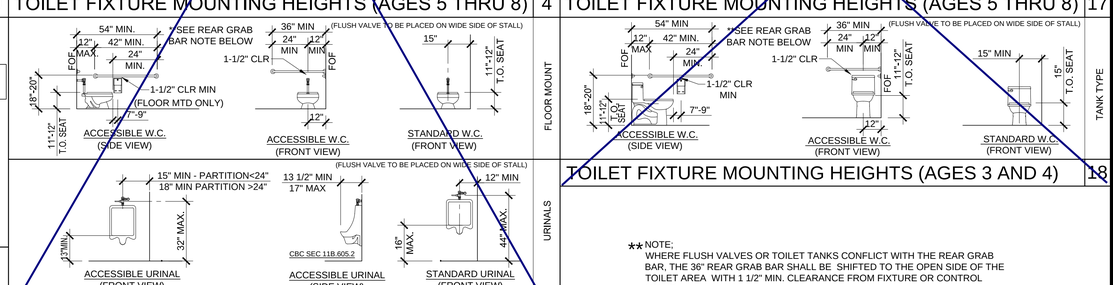


WALL MOUNT / TANK TYPE

FLOOR MOUNT



FLOOR MOUNT



TOILET FIXTURE MOUNTING HEIGHTS (AGES 3 AND 4) 5

TOILET FIXTURE MOUNTING HEIGHTS (AGES 3 AND 4) 18

**NOTE;
WHERE FLUSH VALVES OR TOILET TANKS CONFLICT WITH THE REAR GRAB BAR, THE 36" REAR GRAB BAR SHALL BE SHIFTED TO THE OPEN SIDE OF THE TOILET AREA WITH 1 1/2" MIN. CLEARANCE FROM FIXTURE OR CONTROL VALVE.

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREEK INDUSTRIES

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

PLUMBING DETAILS AND SCHEDULE

REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2010 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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SILVER CREEK INDUSTRIES
24' x 40' PC

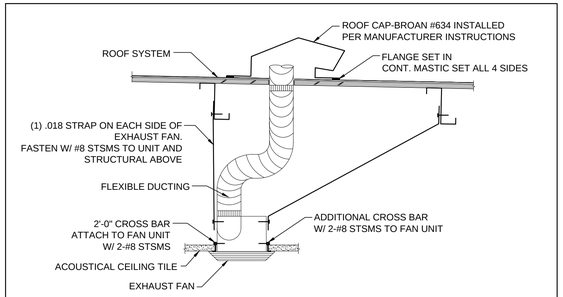
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	6-26-18

P.C. SHEET NUMBER
P-1.01

PHASE III

LEGEND

SYMBOL	ABB.	DESCRIPTION
	SAD	SUPPLY AIR DUCT
	RAD	RETURN AIR DUCT
	EAD	EXHAUST AIR DUCT
	(L)	LINED DUCTWORK
	CD	SUPPLY CEILING DIFFUSER
	CR	RETURN CEILING REGISTER
	ER	EXHAUST CEILING REGISTER
	VTR	VENT THRU ROOF
	FD	FIRE DAMPER
	MVD	MANUAL VOLUME DAMPER
UC	UC	UNDERCUT DOOR
T	STAT	THERMOSTAT
BT	BT	BYPASS TIMER
	P.O.C	POINT OF CONNECTION



EXHAUST FAN INSTALLATION — SCALE : 1"=1'-0"

CEILING MOUNTED EXHAUST FAN SCHEDULE

SYM.	LOCATION	SERVICE	MANUF.	MODEL	CFM	SONES	SP	ELECTRICAL VOLTS	Ø	POWER	WGT.	REMARKS
EF 1	CEILING	TOILET EXHAUST	BROAN*	676	100	4.0	0.25	120	1	156 WATTS	7 LBS.	WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF 2	CEILING	TOILET EXHAUST	BROAN*	L100	109	1.0	0.25	120	1	87 WATTS	22.80 LBS.	WITH BROAN ROOF CAP #634. PROVIDE 6" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF 3	CEILING	TOILET EXHAUST	BROAN*	L200	210	2.0	0.25	120	1	127 WATTS	23.0 LBS.	WITH BROAN ROOF CAP #634, PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF 4	CEILING	TOILET EXHAUST	BROAN*	L300	308	2.8	0.25	120	1	212 WATTS	23.10 LBS.	WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.

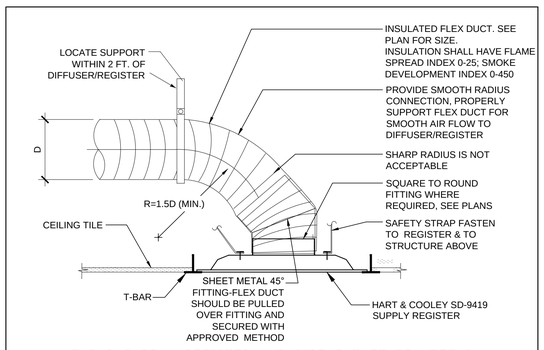
OR APPROVED EQUAL.

PERFORATED FACE GRILLE SCHEDULE (SUPPLY)

ITEM	NECK SIZE	RANGE CFM	MFG & MODEL #
T-BAR SUPPLY 16X16-4W	6"Ø	0 - 150	Fixed Curve Blade, 4-way throw
	8"Ø	150 - 230	For lay-in T-bar ceilings use Harth & Cooley SD-9419 . (Sizes as shown on Mech Plan)
	10"Ø	230 - 350	
	12"Ø	350 - 460	
	14"Ø	460 - 640	

PERFORATED FACE GRILLE SCHEDULE (RETURN)

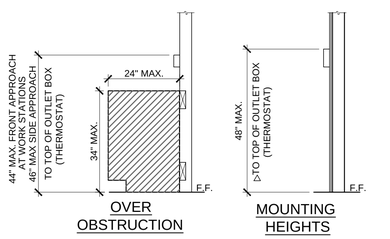
ITEM	NECK SIZE	RANGE CFM	MFG & MODEL #
T-BAR RETURN	6"Ø	0 - 230	Perforated face For lay-in T-bar ceilings use Shoemaker 105P with 24 ga., 45 deg. angle. (Sizes as shown on Mech Plan.)
	10"Ø	230 - 460	
	14"Ø	460 - 710	



T-BAR SUPPLY REGISTER AND SIDE OUTLET BOX DETAIL

N.T.S.

SUPPLY CEILING DIFFUSER MOUNTING — SCALE: NONE — D



△ PROVIDE MIN 30"x48" CLR FLOOR SPACE FOR PERPENDICULAR APPROACH AT EACH LOCATION

GENERAL NOTES

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

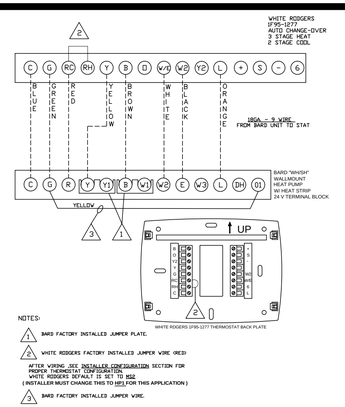
PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2016 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

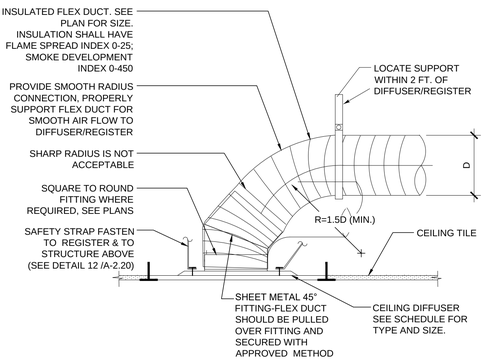
THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #).

COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AN BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.

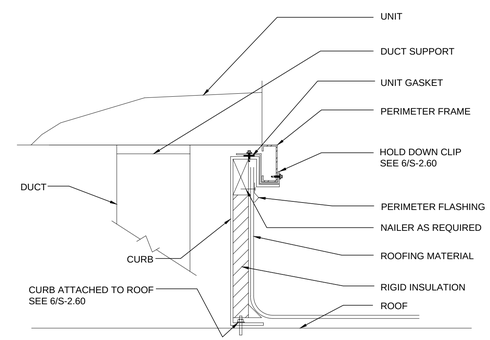
THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.



UNIT TO THERMOSTAT WIRING — SCALE: NONE — A



RETURN CEILING DIFFUSER MOUNTING — SCALE: NONE — B



A/C UNIT MOUNTING — SCALE: NONE — C

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

MECHANICAL NOTES, SCHEDULES, & DETAILS

REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 24175 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED CODE: 2016 CBC

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SILVER CREEK INDUSTRIES
24' x 40' PC

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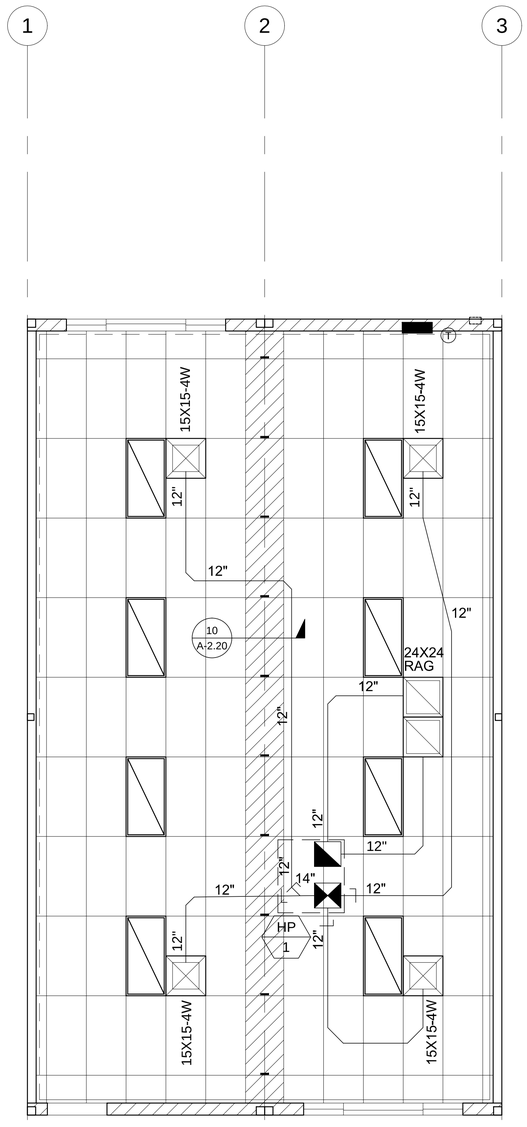
M-0.1

PHASE III



14 SEER			
SINGLE PACKAGE ROOF TOP HEAT PUMP			
	STANDARD	OPTION 1	OPTION 2
TAG	HP-1	HP-1	HP-1
NOMINAL TONNAGE	4	5	3.5
MANUFACTURER	DAY & NIGHT	DAY & NIGHT	DAY & NIGHT
MODEL #	PHD448005K	PHD460005K	PHD442005K
CFM	1600	1750	1400
STATIC PRESSURE	0.2	0.2	0.15
DRIVE	DIRECT	DIRECT	DIRECT
MCA	59	66	55
MCOP	60	70	60
VOLTAGE	230/208-1	230/208-1	230/208-1
WIRE SIZE (PWR/GRND)	4 / 8	4 / 8	6 / 10
DESIGN RETURN AIR (DB/WB)	80 / 67	80 / 67	80 / 67
SENSIBLE COOLING @ 95° F	33,500	39,800	28,500
TOTAL COOLING @ 95° F	48,000	57,500	41,000
HEATING CAPACITY @ 47° F	46,000	57,500	40,000
HEATING CAPACITY @ 17° F	25,800	33,000	22,500
OPERATING WEIGHT	560 #	590 #	560 #
SEER / EER	14.0 / 12.0	14.0 / 11.5	14.0 / 11.5
HSPF	8.0	8.0	8.0
COP @ 47° F	3.60	3.70	3.60
COP @ 17° F	2.40	2.45	2.40

NOTES:
PROVIDE SET-BACK THERMOSTAT.
MODEL # SHOWN IS FOR UNIT WITH OPTIONAL AUXILIARY HEAT STRIP, IF HEAT STRIP IS NOT USED THE MCA AND MCOP MUST BE REVISED, HEAT STRIPS LARGER THAN THE SIZE SHOWN MAY NOT BE USED.
MINIMUM OUTSIDE AIR SHALL BE NO LESS THAN 15 CFM PER EXPECTED OCCUPANT
PROVIDE AN OCCUPANCY SENSOR WITH AN AUTOMATIC SHUT DOWN CONTROLS
PROVIDE MERV 8 (MIN) FILTER
AIR HANDLERS WITH OTHER VOLTAGES SHALL BE ACCEPTABLE.
AIR HANDLERS OTHER THAN THE MAKE AND MODEL LISTED ABOVE SHALL BE ACCEPTABLE WHEN THE NOMINAL TONNAGE DOES NOT EXCEED 5 TONS AND THE EER AND COP VALUES ARE NO LESS THAN THOSE SHOWN ABOVE.

NOTE:
THIS MECHANICAL SHALL PROVIDE A MINIMUM OUTSIDE AIR RATE OF 0.38 CFM / SF OR 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE DESIGN INCLUDED WITHIN THIS PC ASSUMES AN OCCUPANT LOAD OF 29 PEOPLE. THE BUILDING MANUFACTURER SHALL VERIFY THE EXPECTED OCCUPANT LOAD WITH THE SCHOOL DISTRICT PRIOR TO SELECTION OF THE MECHANICAL EQUIPMENT FROM THE OPTIONS INCLUDED IN THE. THE SELECTED EQUIPMENT SHALL BE ADDITIONAL OUTSIDE AIR REQUIREMENTS (IF APPLICABLE) UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING WILL BE LOCATED. AT THE TIME OF OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO THE BUILDING OWNER A CALCULATION INDICATING THE VOLUMES OF OUTSIDE AIR AND OF RECIRCULATED AIR THAT THE VENTILATION SYSTEM HAS BEEN DESIGNED TO PROVIDE.

VENTILATION CALCULATIONS:

MINIMUM REQUIRED VENTILATION
BUILDING AREA = 960 SF
REQUIRED VENTILATION RATE = 0.38 CFM / SF
REQUIRED OUTSIDE AIR VOLUME = 960 x 0.38 = 365 CFM

VENTILATION AS DESIGNED
BUILDING AREA = 960 SF
OCCUPANCY FOR EGRESS PURPOSES = 960 / 20 = 48 OCCUPANTS
ASSUMED # OF OCCUPANTS = 48 OCCUPANTS x 0.6 = 28.8
REQUIRED VENTILATION RATE = 15 CFM / OCCUPANT
REQUIRED OUTSIDE AIR VOLUME = 28.8 x 15 = 432 CFM

NOTE:
BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER, AT OCCUPANCY, OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS, AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF THE MECHANICAL AND LIGHTING SYSTEMS.

NOTE:
THE OCCUPANCY SENSOR USED TO CONTROL THE HVAC EQUIPMENT SHALL BE SEPARATE FROM THE OCCUPANCY SESNOR USED TO CONTROL THE LIGHTING SYSTEM. THIS SENSOR MAY BE INTEGRATED INTO THE THERMOSTAT OR MAY BE A SEPARATE DEVICE.

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Building for the Next Generation

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

MECHANICAL PLAN
ROOF MOUNT
24' x 40'

REGISTERED PROFESSIONAL ENGINEER
JOHN W STANLEY
24175
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CCR, Title 24, 2013 CBC
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SILVER CREEK INDUSTRIES
24' x 40' PC

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SCALE: AS NOTED
DATE: 6-26-18

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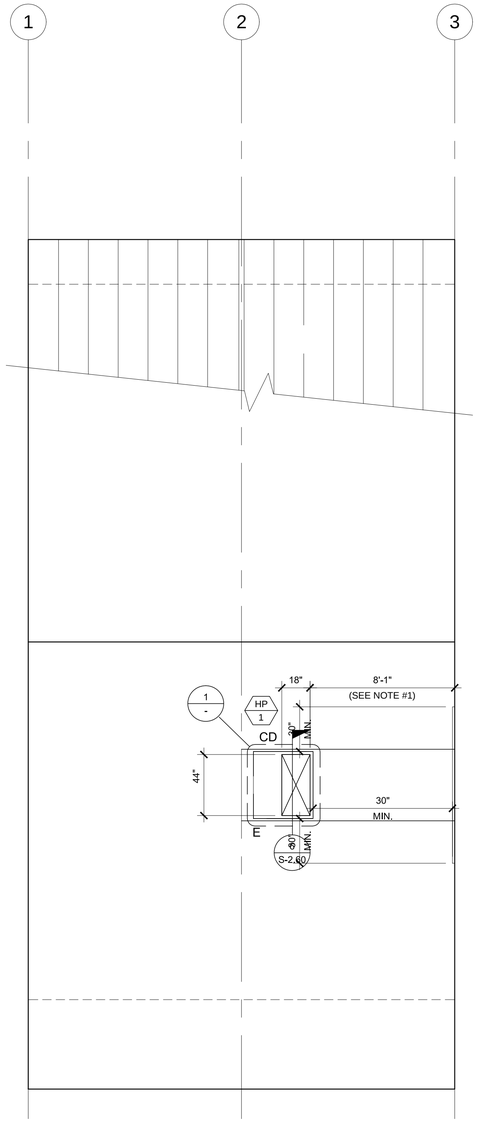
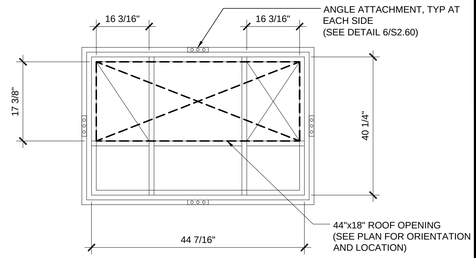
M-2.01

PHASE III

MECHANICAL PLAN - STANDARD 4 LIGHT CONFIGURATION

SCALE: 1/4" = 1'-0"





HEAT PUMP CURB PLAN VIEW

SCALE: NTS | 1

NOTE;

1. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES OR PROVIDE A GUARDRAIL PER CBC 2016 SECTIONS 1013.6 & 1013.7. SEE ARCH ROOF PLAN

MECHANICAL ROOF PLAN

SCALE: 1/4" = 1'-0" | 4

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ROOF MOUNT
24' x 40'

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24175
STRUCTURAL
STATE OF CALIFORNIA

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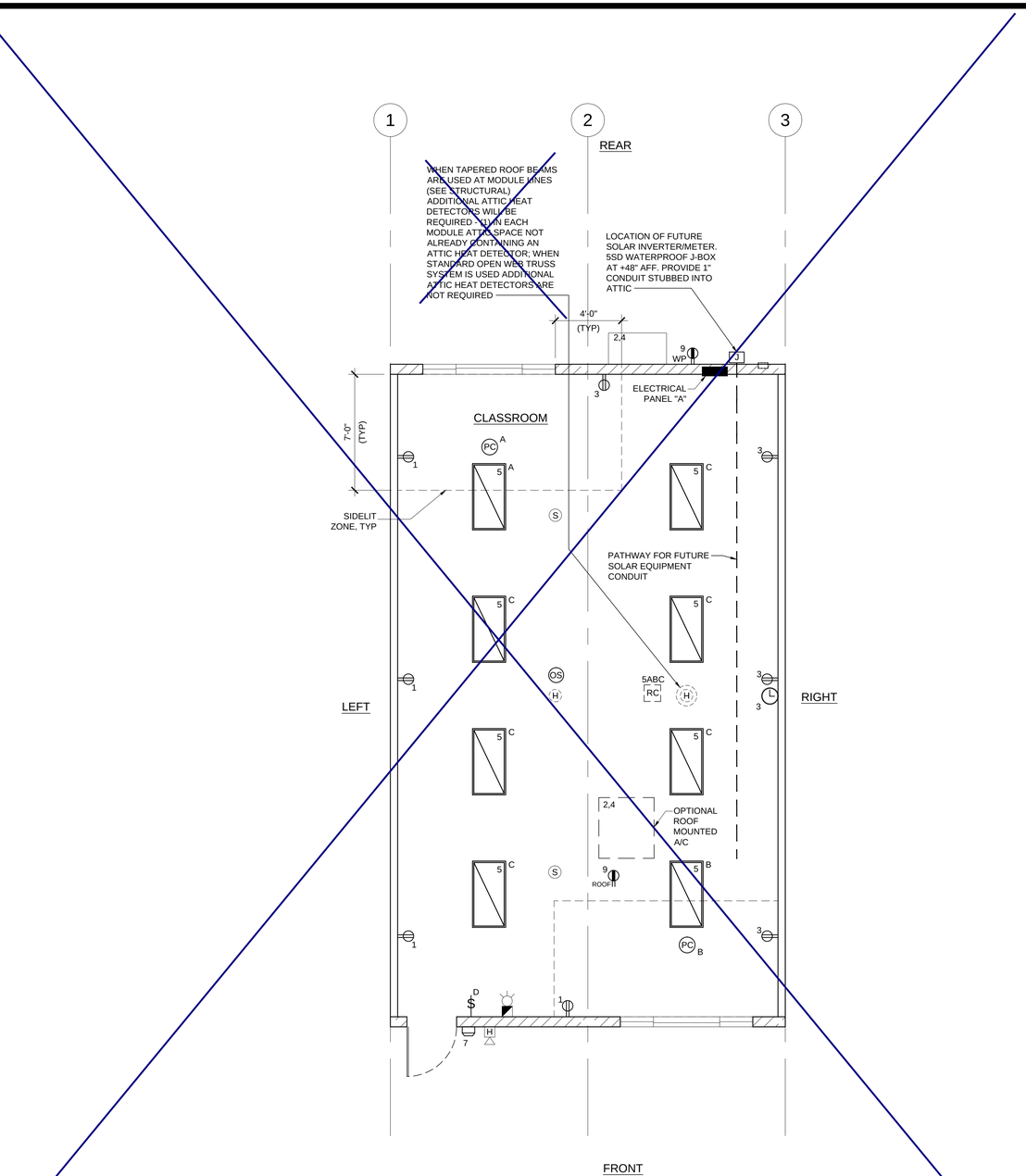
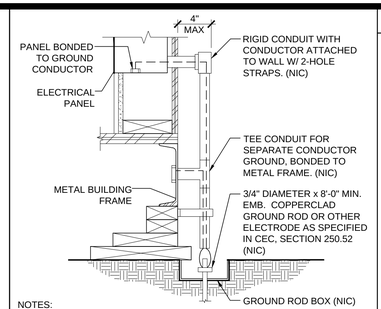


ELECTRICAL PLAN

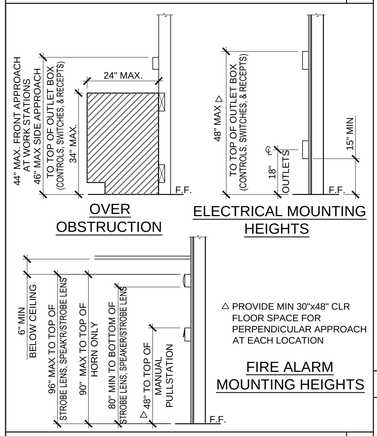
SCALE: 1/4" = 1'-0" | 4



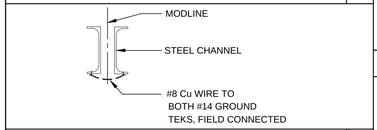
NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66
2. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
4. ALL MODULES OF METAL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP.
5. CHECK RESISTANT TO GROUND ROD, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56).

TYPICAL GROUNDING DETAIL | 1



ACCESSIBLE HEIGHTS | 2



GROUND JUMPER AT MODLINE | 3

GROUND JUMPER AT MODLINE

EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD, WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL).

TESTING: TEST FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS. INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCES TO 25 OHMS OR LESS. (BY SITE ELECTRICAL).

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.

SCHOOL EQUIPMENT ANCHORAGE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2016 CBC SECTIONS 1616A.1.24, 1616A.1.25 & 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #).

COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AN BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

FIRE ALARM NOTES

1. SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES PROVIDED AND INTERCONNECTED BY OTHERS TO FIRE ALARM SYSTEM
2. PROVIDE DEDICATED FIRE ALARM 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED-ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT". NFPA 72 4.4.1.4.2.2

CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 90°C. COPPER)

WIRE SIZE	CAPACITY	WIRE TYPE	NO. OF CONDUCTOR PERMITTED 1/2" C	3/4" C	1" C	1 1/4" C
#12	20A	THHN	9	16	25	45
#10	30A	THHN	5	10	16	28
#8	45A	THHN	2	5	8	14
#6	65A	THHN	1	3	5	10
#4	85A	THHN	1	2	4	7

JUNCTION BOX SIZE TABLE

BOX	SIZE	CU. IN.	MAX NO. OF CONDUCTORS #12	#10	#8	#6
4SS	1 1/4" x 4" SQ	18.0	8	7	6	0
4S	1 1/2" x 4" SQ	21.0	9	8	7	0
4SD	2 1/8" x 4" SQ	30.3	13	12	10	6
4SX	2 7/8" x 4" SQ	43.5	23	21	17	10
5SD	2 1/8" x 4-11/16" SQ	42.0	18	16	14	6
5SX	3 7/8" x 4-11/16" SQ	86.0	38	34	28	17
664	4" x 6" SQ	144.0	64	57	48	28

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

LEGEND

- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 60 WATTS MAX.
- WALL MOUNTED HVAC UNIT. SEE MECHANICAL DWGS
- ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DWGS
- ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT (U.N.O.)
- (OS) CEILING MOUNTED OCCUPANCY SENSOR. WATTSTOPPER #LMPC-100 OR EQUAL.
- (PC) CEILING MOUNTED PHOTOCELL, WATTSTOPPER #LMLS-500
- (US) ULTRASONIC CEILING OCCUPANCY SENSOR. WATTSTOPPER W-500A OR EQUAL. SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.
- WS-1 SINGLE SWITCH WALL OCCUPANCY SENSOR. WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM) LESS THAN 100 SQ FT W/ (1) CIRCUIT.
- RC LIGHTING MANAGEMENT SYSTEM ROOM CONTROLLER, INSTALLED ABOVE CEILING, LOCATION AND # OF LOADS/ZONES TO BE VERIFIED, WATTSTOPPER # LMRC-2XX
- $D SINGLE BUTTON DIMMER SWITCH, AT +48" AFF, TO TOP OF OUTLET BOX, WATTSTOPPER #LMDM-101
- $ LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- $3 3-WAY LIGHT SWITCH, MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- $K KEYED SWITCH MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- DUPLEX (WALL MOUNTED) RECEPTACLE 15A - 125V - 3 WIRE. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF DEVICE
- WP EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24 " AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)
- GFI GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS
- ROOF ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE
- EM EXTERIOR LED LIGHT FIXTURE W/ 90 MIN. EMERGENCY BATTERY BACKUP WHEN 'EM' IS DESIGNATED NEXT TO FIXTURE W/ PHOTOCELL W/ 30w MAX. MOUNT AT +93" AFF
- CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE
- EXIT EXIT SIGN WITH 90 MIN. BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. CLASSROOMS WITH ONE EXTERIOR DOOR - OPTIONAL)
- 4SD J-BOX FOR FIRE ALARM PULL STATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF OUTLET BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULL STRING
- 4SD J-BOX FOR FIRE ALARM STROBE OR VOICE EVAC SPEAKER (DEVICE BY OTHERS). BOTTOM OF LENS SHALL BE BETWEEN 80" AND 96" AFF AND WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULL STRING
- H 4SD J-BOX FOR EXTERIOR FIRE ALARM SPEAKER (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULL STRING
- RECESSED 4SD J-BOX W / COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS, MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULL STRING
- S 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- H 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- WH 4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT
- 100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH
- 300 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH
- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 60 WATTS MAX. EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE EQUIPPED WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.
- WALL MOUNTED LIGHT FIXTURE, 30 WATTS
- 4SD J-BOX FOR FUTURE DATA W/ SINGLE GANG RING W/ 1" CO STUB INTO ATTIC AND PULL STRING
- FS DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER FLOW SWITCH.
- TS DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER TAMPER SWITCH.
- B DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER BELL.

NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.

ELECTRICAL PANEL

VOLTS: 120/208 V | PANEL: WALL MOUNTED HVAC | FEED: REAR
MAIN: 100 A | LOCATION: INTERIOR ACCESS | MOUNTING: FLUSH

LOAD	QTY	WATTS AØ	WATTS BØ	BREAKER Amps	BREAKER P	Circuit	A	B	Circuit	BREAKER Amps	BREAKER P	WATTS AØ	WATTS BØ	QTY	LOAD
RECEPTACLES	4	720		20	1	1	●		2	60	2	6870		1	4 TON HVAC - WALL MOUNT (4 KW)
RECEPTACLES/CLOCK	5		900	20	1	3		●	4	-			6670		-
INTERIOR LIGHTING	8	960		20	1	5	●		6						
EXTERIOR LIGHTING	1		40	20	1	7		●	8						
WALL RECEPTACLE (GFI)	1	180		20	1	9	●		10						
DED - SOLAR READY						11		●	12	20	1		40		FIRE ALARM (NOTE #2)
DED - SOLAR READY						13	●		14						
A = 8530 WATTS / PHASE		1860	940									6670	6710		B = 7650 WATTS / PHASE
TOTAL = 16,180 WATTS		78 AMPS		120/208 VOLTS		1 Ø								3 WIRE	

ELECTRICAL PANEL

VOLTS: 120/208 V | PANEL: "A" ROOF MOUNTED HVAC | FEED: REAR
MAIN: 100 A | LOCATION: INTERIOR ACCESS | MOUNTING: RECESSED

LOAD	QTY	WATTS AØ	WATTS BØ	BREAKER Amps	BREAKER P	Circuit	A	B	Circuit	BREAKER Amps	BREAKER P	WATTS AØ	WATTS BØ	QTY	LOAD
RECEPTACLES	4	720		20	1	1	●		2	70	2	7360		1	4 TON HVAC - ROOF MOUNT (5 KW)
RECEPTACLES/CLOCK	5		900	20	1	3		●	4	-	-		7360		-
INTERIOR LIGHTING	8	960		20	1	5	●		6						
EXTERIOR LIGHTING	1		40	20	1	7		●	8						
ROOF RECEPTACLE (GFI)	1	180		20	1	9	●		10						
DED - SOLAR READY						11		●	12	20	1		40		FIRE ALARM (NOTE #2)
DED - SOLAR READY						13	●		14						
A = 9220 WATTS / PHASE		1860	940									7360	7400		B = 8340 WATTS / PHASE
TOTAL = 17560 WATTS		84 AMPS		120/208 VOLTS		1 Ø								3 WIRE	

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ELECTRICAL PLAN AND SCHEDULE 24' x 40'

REGISTERED PROFESSIONAL ENGINEER JOHN W STANLEY 24175 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CCR, Title 24 CBC A SEPARATE PROJECT APPLICATION IS REQUIRED FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APP. NO: 04 - 116668 INCR :
AC RM FLS DS SS KR
DATE 07/24/2018

REVISIONS

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SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 6-26-18

P.C. SHEET NUMBER
E-1.01

PHASE III

ELITE MODULAR

DRAWINGS PREPARED FOR:

BAKERSFIELD BESSIE OWENS JHS

(x1) 60x60 ADMIN BLDG

(X1) 60X60 LIBRARY

ELITE MODULAR JOB #: EMS 5050

GENERAL NOTES	BUILDING DATA
SEE PC 04-116719 SHEET A-0	SEE PC 04-116719 SHEET A-0

APPLICABLE STANDARDS
SEE PC 04-116719 SHEET A-0

APPLICABLE CODES
SEE PC 04-116719 SHEET A-0

SHEET INDEX

PROJECT SPECIFIC SHEET INDEX

SHT NO.	ARCHITECTURAL
A-0N	COVER SHEET
A-0.2N	PROJECT SPECIFIC SCHEDULES
A-1.01N	FLOOR PLAN 60X60 ADMIN
A-1.02N	FLOOR PLAN 60X60 LIBRARY
A-2.01N	REFLECTED CEILING PLAN 60X60 ADMIN
A-2.02N	REFLECTED CEILING PLAN 60X60 LIBRARY
A-3.01N	ROOF PLAN 60X60 ADMIN
A-3.02N	ROOF PLAN 60X60 LIBRARY
A-4.01N	EXTERIOR ELEVATIONS 60X60 ADMIN
A-4.02N	EXTERIOR ELEVATIONS 60X60 LIBRARY
A-6.01N	INTERIOR ELEVATIONS

SHT NO.	FOUNDATION
F-2.11N	FOUNDATION KEY PLAN

SHT NO.	PLUMBING
P-1.01N	PLUMBING PLAN, ISOMETRICS & SCHEDULES - 60X60 ADMIN
P-1.02N	PLUMBING PLAN, ISOMETRICS & SCHEDULES - 60X60 LIBRARY

SHT NO.	MECHANICAL
M-1.01N	MECHANICAL PLAN 60X60 ADMIN
M-1.02N	MECHANICAL PLAN 60X60 LIBRARY

SHT NO.	ELECTRICAL
E-1.01N	ELECTRICAL PLAN 60X60 ADMIN
E-1.02N	ELECTRICAL PLAN 60X60 LIBRARY

60' PC 04-116719 SHEET INDEX

SHT NO.	ARCHITECTURAL
A-0	COVER SHEET
A-0.0	BUILDING OPTIONS SCHEDULE
A-0.1	SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE
A-0A	T & I FORMS
A-0.2	SCHEDULES
A-0.5D	ENERGY CALC'S - PRF FORMS - ZONE 14 WORST CASE - 72'X60'
A-0.5E	ENERGY CALC'S - PRF FORMS - ZONE 15 WORST CASE - 72'X60'
A-0.5F	ENERGY CALC'S - PRF FORMS - ZONE 16 WORST CASE - 72'X60'
A-0.6A	ENERGY CALC'S - CERTICIFICATE OF COMPLIANCE FORMS
A-0.6B	ENERGY CALC'S - CERTICIFICATE OF COMPLIANCE FORMS
A-0.7	ENERGY CALC'S - VALUES BY ZONE & CALGREEN NOTES
A-1.03	FLOOR PLAN - 36' TO 72' X 60'
A-1.05	OPTIONAL RR END MOD. - PLUMBING PLANS & WATER SUPPLY ISOMETRIC
A-2.03	REFLECTED CEILING PLAN - 36' TO 72' X 60'
A-2.20	CEILING DETAILS - T-GRID
A-2.21	CEILING DETAILS - HARD LID
A-3.33	ROOF PLAN - PARAPET - DUAL SLOPE - 36' TO 72' X 60'
A-3.80	ROOF DETAILS - PARAPET
A-3.90	ROOFING DETAILS - TPO ROOF
A-4.23	EXTERIOR ELEVATIONS - DUAL SLOPE - 36' TO 72' X 60' (PARAPET)
A-5.02	CROSS SECTION - DUAL SLOPE
A-5.05	CROSS SECTION
A-5.51	ARCHITECTURAL DETAILS - WOOD STUD - PLASTER
A-5.70	ARCHITECTURAL DETAILS - FLOOR
A-5.80	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-5.81	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-6.04	INTERIOR ELEVATIONS - 36' TO 72' x 60'

SHT NO.	FOUNDATION
F-2.11	CONCRETE FOUNDATION PLAN - BELOW GRADE - CONCRETE FLOOR
F-2.50	CONCRETE FOUNDATION DETAILS - BELOW GRADE
F-2.51	FOUNDATION DETAILS - CONCRETE

SHT NO.	STRUCTURAL
S-0.1	STRUCTURAL SPECIFICATIONS
S-1.11	FLOOR FRAMING PLAN - CONCRETE FLOOR
S-1.60	FLOOR FRAMING DETAILS - CONCRETE FLOOR
S-2.13	ROOF FRAMING PLAN - PARAPET -DUAL SLOPE
S-2.51	ROOF FRAMING DETAILS - DUAL SLOPE
S-2.60	ROOF FRAMING DETAILS
S-2.70	ROOF FRAMING DETAILS PARAPET
S-2.90	ROOF FRAMING DETAILS - TRUSS
S-3.02	BUILDING SECTION - DUAL SLOPE ROOF
S-5.00	WALL FRAMING ELEVATIONS - WOOD STUDS
S-5.10	WALL FRAMING DETAILS - WOOD STUDS
S-5.11	WALL FRAMING DETAILS - WOOD STUDS

SHT NO.	PLUMBING
P-1.01	PLUMBING DETAILS AND SCHEDULE

SHT NO.	MECHANICAL
M-0.1	MECHANICAL NOTES, SCHEDULES, AND DETAILS
M-4.01	MECHANICAL PLAN - ROOF MOUNT - 36' TO 72' X 60'
M-4.02	MECHANICAL ROOF PLAN - ROOF MOUNT - 36' TO 72' X 60'

SHT NO.	ELECTRICAL
E-1.04	ELECTRICAL PLAN - 36' TO 72' X 60'

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

COVER SHEET

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS

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PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	2-20-2020

SHEET NUMBER

A-0N

PHASE III

DOOR SCHEDULE

DOOR NO	WIDTH	HEIGHT	DOOR TYPE	QTY	DOOR MAT/FIN	FRAME MAT/FIN	HARDWARE SET	NOTES*
1	3'-0"	7'-0"	A		SF	SF	HW - 5 BY STOREFRONT MANUFACTURER	SOLAR BAN 60 TEMPERED GLASS
2	3'-0"	7'-0"	B		SF	SF	HW - 5 BY STOREFRONT MANUFACTURER	SOLAR BAN 60 TEMPERED GLASS
3	6'-0"	7'-0"	C		HM	WF	HW - 1	
4	3'-0"	7'-0"	D		SF	SF	HW - 5 BY STOREFRONT MANUFACTURER	SOLAR BAN 60 TEMPERED GLASS
5	3'-0"	7'-0"	M		HM	WF	HW - 6	
6	6'-0"	7'-0"	F		SF	SF	HW - 5 BY STOREFRONT MANUFACTURER	SOLAR BAN 60 TEMPERED GLASS
7	3'-0"	7'-0"	G		SCB	SF	HW - 2	1070 CLR TEMPERED GLASS
8	3'-0"	7'-0"	H		SCB	SF	HW - 2	1070 CLR TEMPERED GLASS
9	3'-0"	7'-0"	J		SCB	SF	HW - 2	
9A	3'-0"	7'-0"	J		SCB	SF	HW - 3	
10	3'-0"	7'-0"	J		SCB	SF	HW - 4	
11	3'-0"	7'-0"	J		SCB	SF	HW - 3	
12	3'-0"	7'-0"	K		SCB	SF	HW - 2	1070 CLR TEMPERED GLASS
13	3'-0"	7'-0"	L		SCB	SF	HW - 3	1070 CLR TEMPERED GLASS

DOOR MATERIAL AND FINISH ABBREVIATIONS

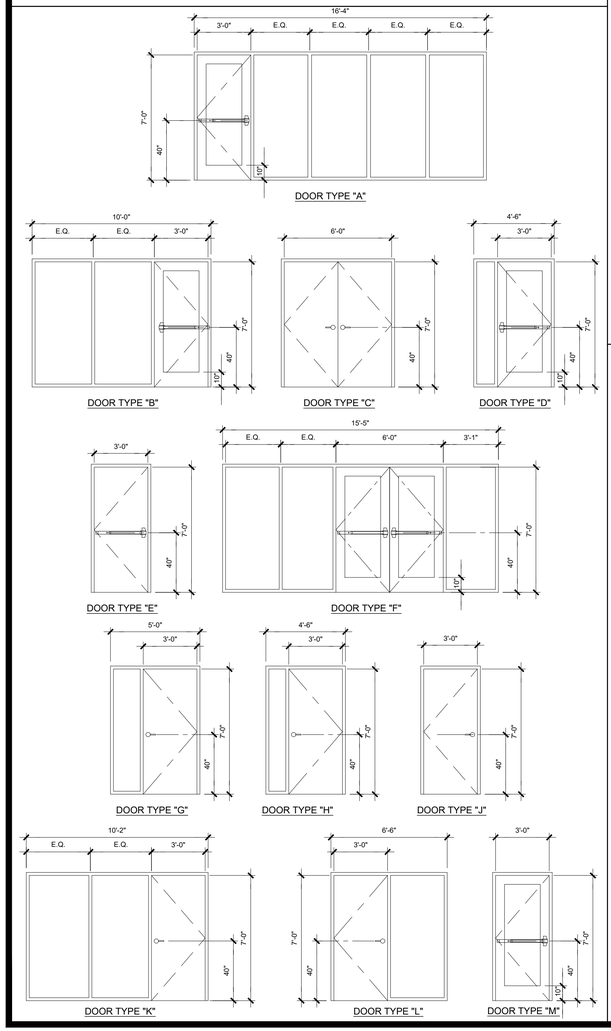
HM: 18GA HOLLOW METAL
WF: 16GA WELDED FRAME
SF: BRONZE STOREFRONT
SST: STAINLESS STEEL
KD: KNOCK DOWN FRAME
SCB: SOLID CORE BIRCH
HC: HOLLOW CORE WOOD
PT: PAINTED

*EXTERIOR DOORS TO BE UNINSULATED SINGLE LAYER DOORS W/ U-FACTOR OF 0.500 MAX

NOTE:

- **PROVIDE VICORE FLASHING A ALL EXTERIOR DOORS & WINDOWS**
- **PROVIDE TRIMCO 1254 WALL MOUNTED DOOR STOP @ 78" AFF AT EXTERIOR DOORS**
- **PROVIDE STUCCO RETURN @ ALL EXTERIOR DOOR FRAMES**

DOOR TYPES & NOTES



WINDOW SCHEDULE

WINDOW NO.	QTY	TYPE	WIDTH	HEIGHT	FUNCTION	FRAME MATERIAL	GLASS MATERIAL	WALL THICKNESS	NOTES
A		1	2'-0"	2'-0"	FIXED	SF	DP		
B		2	4'-0"	4'-0"	FIXED	SF	DP		
C		3	6'-0"	4'-0"	FIXED	SF	DP		
D		4	9'-0"	7'-2"	FIXED	SF	DP		
E		5	4'-0"	4'-0"	XO	ANOD	DP2		

WINDOW FINISH

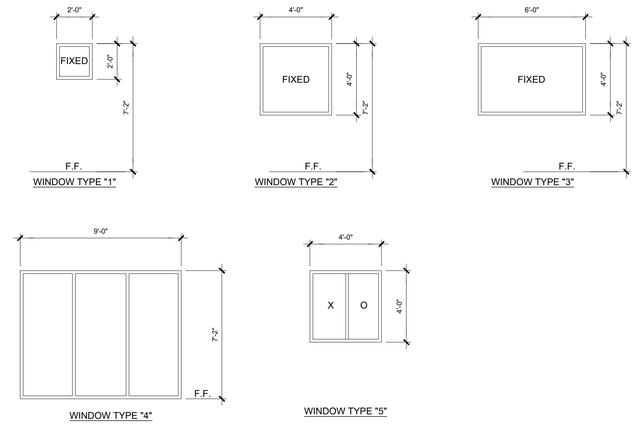
ANOD: BRONZE ANODIZED ALUMINUM FRAME
SF: BRONZE STOREFRONT FRAME

DP: 3/16" MINIMUM DUAL PANE TEMPERED GLASS OF SOLAR BAN 60, ALL OPERABLE SASH SHALL HAVE SCREENS.

DP2: 3/16" MINIMUM DUAL PANE CLEAR TEMPERED GLASS

NOTE:
PROVIDE VICORE FLASHING A ALL EXTERIOR DOORS & WINDOWS

WINDOW TYPE



NOTE:
1. OPERABLE WINDOW CONTROLS SHALL COMPLY WITH CBC 11B.309.4 AND SHALL NOT REQUIRE TIGHT GRASPING,PINCHING OR TWISTING OF THE WRIST
2. WINDOW CONTROLS SHALL NOT REQUIRE MORE THAN 5LBS OF FORCE TO OPEREATE
3. THE REQUIRED FORCE TO PUSH/PULL THE WINDOW PANEL SHALL NOT EXCEED 5LBS
4. GLAZING SHALL MEET MINUMUM CATEGORY CLASS II (C-II)

FINISH SCHEDULE

ROOM NAME	FLOORING		WALL FINISH				CEILING		
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT	NOTES
LOBBY 101	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
RECEPTION 102	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
OFFICE 103	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
OFFICE 104	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
OFFICE 105	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
OFFICE 106	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
OFFICE 107	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
OFFICE 108	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
OFFICE 109	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
HALLWAY 110	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
WORKROOM 111	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
WORKROOM 112	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
NURSE 113	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
FILE ROOM 114	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
STAFF 115	CT	CT	CT	CT	CT	CT	CT	8'-0	
JANITOR 116	CT	CT	CT	CT	CT	CT	CT	8'-0	
CONFERENCE 117	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
DATA 118	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
ELECTRICAL 119	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
LIBRARY 120	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
OFFICE 121	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
LOUNGE 122	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
HALLWAY 123	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
STUDY 124	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
FIRE 125	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH
STAFF 126	CT	CT	CT	CT	CT	CT	CT	8'-0	
STAFF 127	CT	CT	CT	CT	CT	CT	CT	8'-0	
STAFF 128	CT	CT	CT	CT	CT	CT	CT	8'-0	
SUPPLIES 129	N/A	N/A	TACK	TACK	TACK	TACK	CP	9'-0"	KOROSEAL VINYL FINISH

FLOOR, WALL, CEILING MATERIALS

FLOORING
CARP: CARPET PER STATE OF CALIFORNIA SPECIFICATIONS COMPLYING WITH GROUP 1; TYPE "A" OR TYPE "B"; CLASS 2; DENSITY 4600; DIRECT GLUE DOWN
SV: SHEET VINYL FLOORING
CT: CERAMIC TILE

BASE
4" TS: 4" TOP SET BASE
6" TS: 6" TOP SET BASE
CT: CERAMIC TILE BASE

WALLS
TACK: 1/2" VINYL TACKBOARD (KOROSEAL) CLASS 1 OVER ½" GYPSUM BOARD BACKING
CT: FULL HEIGHT CERAMIC TILE FINISH
GYP: 1/2" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH

CEILING
CP: ACOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATION NOTES ON REFLECTED CEILING PLAN)
HC: 5/8" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH (HARD LID CEILING)

FINISH NOTES

1. ALL FINISHES SHALL COMPLY WITH CBC, CFC AND TITLE 19 CCR.
2. PREPARATION FOR SUB-FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. PLYWOOD SUB-FLOOR IS 2.4.1. PLYWOOD. OUTER PLYWOOD IS PLUGGED AND TOUCH SANDED. ANY DEFORMITIES DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR. THE JOINT AT THE MODLINE SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.
3. RESILIENT FLOORING DEMONSTRATING A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM D2047, WILL BE ACCEPTED AS MEETING THE INTENT OF SLIP RESISTANCE.
4. CARPET SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT, OR LEVEL CUT / UNCUT PILE TEXTURE AND MAXIMUM PILE HEIGHT OF 1/2" PER THE 2016 CBC. CARPET EDGED SHALL COMPLY WITH THE 2016 CBC

DOOR HARDWARE

ELECTRICAL / DATA RM - EXTERIOR DOOR HW-1

LOCKSET	YALE AU5405LN X 1210 CYLINDRICAL	Finish 26D	or equal
BUTTS	HAGER BB1191 4 1/2" X 4 1/2" NRP	Finish 26D	or equal
CLOSER	NORTON 7500 BFDA	Finish 689	or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum	or equal
THRESHOLD	HAGER 413SA 36	Finish Alum	or equal
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum	or equal
STOP / HOLDER	TRIMCO 1254	finish alum	or equal

INTERIOR DOOR / OFFICE - INTERIOR DOOR HW-2

LOCKSET	YALE AU5404LN x 1210	Finish 26D	or equal
BUTTS	HAGER 1279 4 1/2" x 4 1/2"	Finish 26D	or equal
CLOSER	NORTON 7500 BFDA	Finish 689	or equal

SUPPLIES / JANITOR - INTERIOR DOOR HW-3

LOCKSET	YALE AU5405LN x 1210	Finish 26D	or equal
BUTTS	HAGER 1279 4 1/2" x 4 1/2"	Finish 26D	or equal
CLOSER	NORTON 7500 BFDA	Finish 689	or equal

STAFF RESTROOM - INTERIOR DOOR HW-4

LOCKSET	YALE AU5402LN x 1210	Finish 26D	or equal
BUTTS	HAGER 1279 4 1/2" x 4 1/2"	Finish 26D	or equal

(STOREFRONT DOOR HARDWARE BY DOOR MANUFACTURER)

STOREFRONT DOOR - EXTERIOR DOOR HW-5

EXIT DEVICE	VON DUPRIN AX-98EO-PA-LD x 1439 STK
BUTTS	HAGER BB1191 4 1/2" x 4 1/2" NRP
CLOSER	CLR P90
WEATHER STRIP	BY STOREFRONT MANUFACTURER
THRESHOLD	BY STOREFRONT MANUFACTURER
DOOR BOTTOM	BY STOREFRONT MANUFACTURER

EMERGENCY EXIT AND PANIC HARDWARE IS TO COMPLY WITH SFM STANDARD 12-10-3, SECTION 12-10-302:
a) THE CROSS BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE.
d) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.

DOOR - EXTERIOR DOOR HW-6

EXIT DEVICE	VON DUPRIN AX-98EO-PA-LD x 1439 STK	Finish 26D	
BUTTS	HAGER BB1191 4 1/2" x 4 1/2" NRP	Finish 26D	
CLOSER	NORTON 7500 BFDA	Finish 689	
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum	
THRESHOLD	HAGER 413SA 36	Finish Alum	
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum	
STOP / HOLDER	TRIMCO 1254	finish alum	

EMERGENCY EXIT AND PANIC HARDWARE IS TO COMPLY WITH SFM STANDARD 12-10-3, SECTION 12-10-302:
a) THE CROSS BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE.
d) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.

INSULATION SPECIFICATIONS

MOISTURE PROTECTION INSULATION:

DESCRIPTION OF WORK: THE FURNISHING AND INSTALLING OF ALL INSULATION FOR ALL CEILING, FLOOR AREAS, PIPES AND EXTERIOR WALLS. (CLASS A = 0-25 FLAME SPREAD:) SMOKE DEVELOPMENT DENSITY LESS THAN 450.

MATERIAL: INSULATING MATERIAL FOR WALLS, CEILINGS, AND FLOORS SHALL BE FIBERGLASS BATTS (UNFACED) AND SHALL COMPLY WITH CBC 720.1, 720.2, 720.3, 720.5 AND 720.7. INSULATION SHALL BE AS MANUFACTURED BY OWENS-CORNING FIBERGLASS CORPORATION, JOHNS-MANVILLE, CERTAINTIES, OR EQUAL.

INSULATION VALUES
SEE SHEETS A-0.7 FOR MINIMUM REQUIRED INSULATION VALUES FOR SPECIFIC BUILDING SIZE AND CONFIGURATION.

EXTERIOR WALL INSULATION (MIN.)
☐ R-13 (2x4)
☒ R-19 (2x6)
☐ R-30 (2x8)

INTERIOR WALL INSULATION (MIN.)
R-13

FLOOR INSULATION (MIN.)
R-20 (RIGID FOAM)

ROOF INSULATION (MIN.)
R-30

IDENTIFICATION STAMP
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APP. 03-120102 INC:
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DATE: 03/27/2020

ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

PROJECT SPECIFIC SCHEDULES

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NO:
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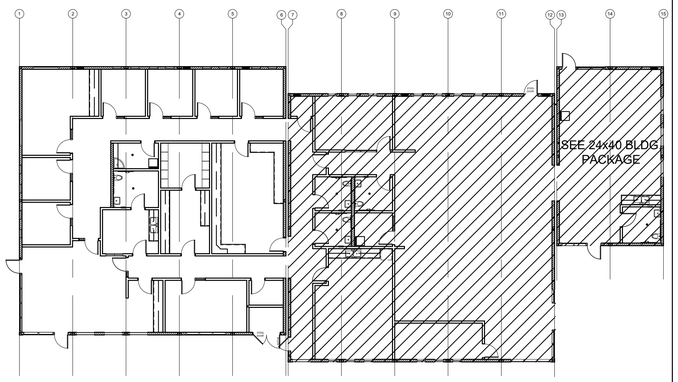
A-0.2N

PHASE III



KEY PLAN — SCALE: 1/4" = 1' - 0" — A

DETAIL SCHEDULE

FINISH:	SHEET #:
☒ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51

WALL LEGEND

NOMINAL 6" WALL STUD

NOMINAL 4" WALL STUD

A — WINDOW PER SCHEDULE SHEET A-0.2N

— DOOR PER SCHEDULE SHEET A-0.2N

NOTE:
FOR ADDITIONAL RESTROOM / ACCESSIBILITY INFORMATION, SEE PC SHEET P-1.01

NOTE:
FOR ADDITIONAL PLAN INFORMATION, SEE PC DRAWINGS, SHEET A-1.03

SYMBOLS LEGEND

60" CIRCLE CLEAR SPACE

30"x48" CLEAR SPACE

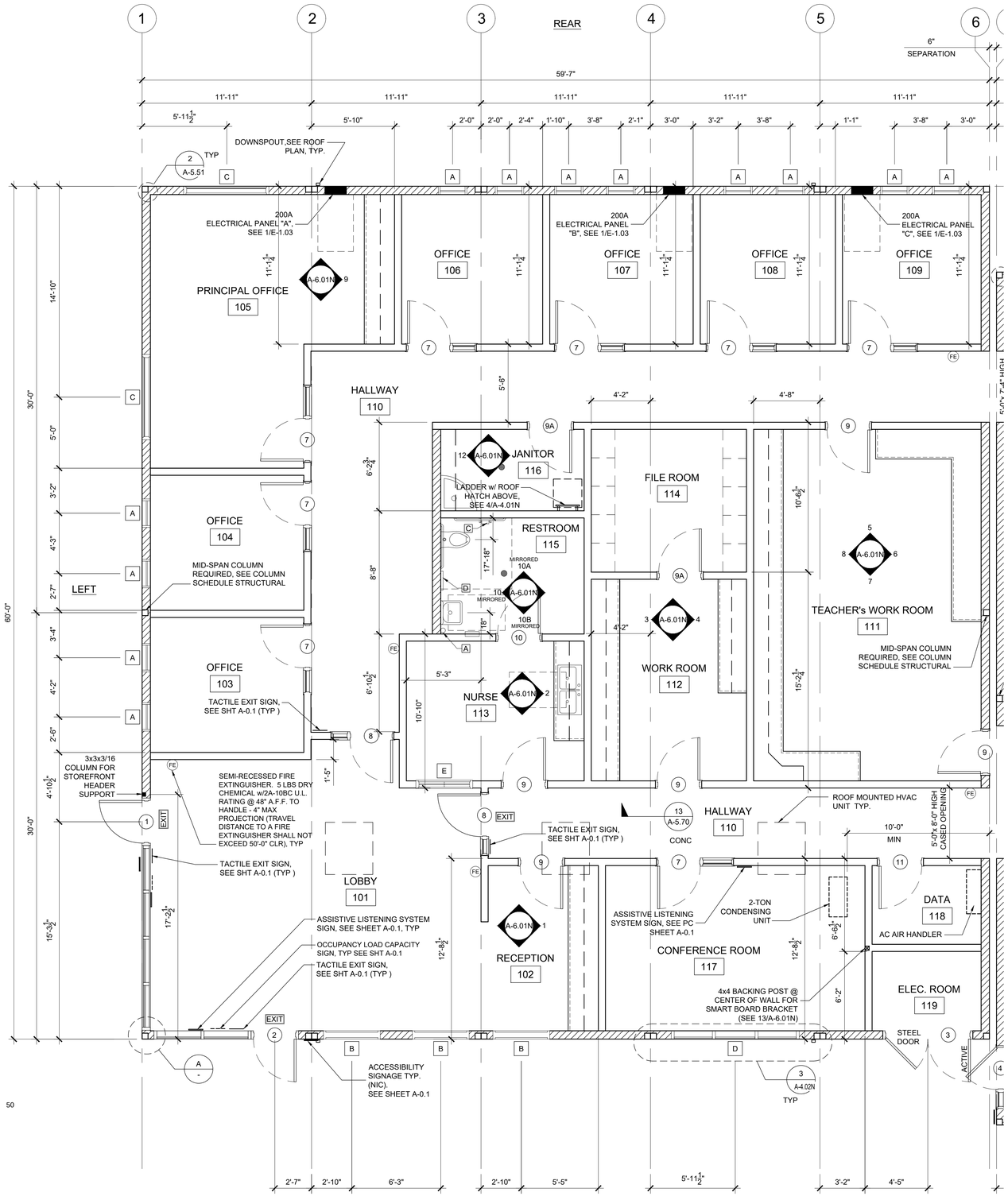
60"x60" CLEAR SPACE @ WATER CLOSET

TOILET ACCESSORIES

- A — SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX PROJECTION
- B — PAPER TOWEL DISPENSER: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30"x48" CLEAR SPACE OF FIXTURE
- C — TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION
- D — TOILET SEAT COVER DISPENSER: SURFACE MOUNTED
- E — WALL MOUNTED WASTE RECEPTACLE, 6" MAX PROJECTION, 12" MAX ABV. FIN FLR TO BTM.
- * — PLEASE SEE PC SHEET P-1.01, DETAIL 10 FOR TOILET ACCESSORIES ADA MOUNTING HEIGHTS

BUILDING SEISMIC SEPARATIONS NOTE:
ALL EXTERIOR SEISMIC SEPARATION CLOSE-UP AND PARAPET CAPS TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS, PLEASE SEE ARCHITECT's DRAWINGS FOR INSTALLATION DETAILS
(ELITE MODULAR TO PROVIDE AND INSTALL ALL INTERIOR CLOSE-UPS ONLY)

NOTE:
ROOM SIGNAGE TO BE PROVIDED IN ACCORDANCE WITH 11B-216.2
SIGNAGE TO BE PROVIDED AND INSTALLED ON SITE BY OTHERS, NOT ELITE MODULAR



FRONT

Building K Occcupancy						
Number	Name	Occupancy	Area	Occupant Load Factor	Occupant Count	Required # of Exits
101	LOBBY	B	544 SF	100	6	1
102	JANITOR	B	56 SF	300	1	1
103	OFFICE 1	B	103 SF	100	2	1
104	OFFICE 2	B	103 SF	100	2	1
105	PRINCIPAL	B	281 SF	100	3	1
106	OFFICE 3	B	102 SF	100	2	1
107	OFFICE 4	B	107 SF	100	2	1
108	OFFICE 5	B	101 SF	100	2	1
109	OFFICE 6	B	104 SF	100	2	1
111	TEACHER'S WORK RM	B	398 SF	100	4	1
112	WORK ROOM	B	155 SF	100	2	1
113	NURSE	B	123 SF	100	2	1
114	FILES	B	110 SF	100	2	1
115	RR	B	80 SF	-	-	1
117	CONF. ROOM	B	214 SF	15	15	1
118	DATA	B	43 SF	100	1	1
119	ELEC. ROOM	B	44 SF	100	1	1
120	LIBRARY	B	1908 SF	100	20	1
121	OFFICE	B	159 SF	100	2	1
122	TEACHER'S LOUNGE	B	404 SF	100	5	1
124	GROUP STUDY	B	208 SF	100	3	1
125	DATA	B	22 SF	100	1	1
126	RR	B	60 SF	-	-	1
127	RR	B	60 SF	-	-	1
128	RR	B	63 SF	-	-	1
129	SUPPLIES	B	63 SF	300	1	1
130	RR	B	67 SF	-	-	1
131	PARENT CENTER	B	809 SF	100	9	1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

FLOOR PLAN
60x60 ADMIN

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS
1
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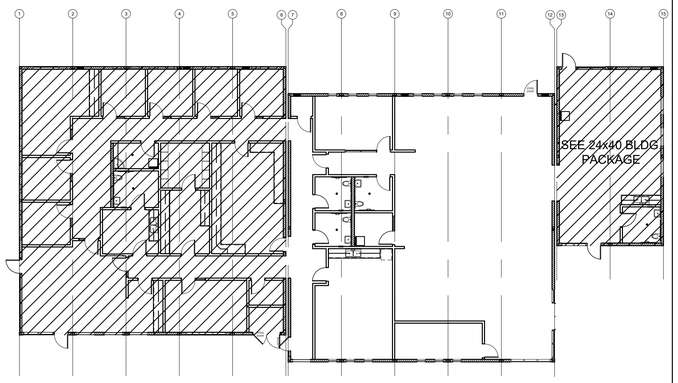
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 2-20-2020

SHEET NUMBER
A-1.01N

PHASE III

FLOOR PLAN — SCALE: 1/4" = 1' - 0" — 1



KEY PLAN — SCALE: 1/4" = 1' - 0" — A

DETAIL SCHEDULE

FINISH:	SHEET #:
☒ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51

NOTE:
MODULES 7 THRU 12 ARE TO HAVE A 150# FLOOR LOAD & 50+15 REMAINDER OF BUILDING. PLEASE SEE PC SHEET S-1.11 (FLOOR FRAMING) & F-6.01N FOR FOUNDATION KEY PLAN

WALL LEGEND

NOMINAL 6" WALL STUD

NOMINAL 4" WALL STUD

A WINDOW PER SCHEDULE SHEET A-0.2N

(#) DOOR PER SCHEDULE SHEET A-0.2N

NOTE:
LIBRARY BOOK SHELVES AND CABINETS TO BE PROVIDED AND INSTALLED ON SITE BY OTHERS & ARE NOT PART OF THIS APPLICATION.

NOTE:
FOR ADDITIONAL RESTROOM / ACCESSIBILITY INFORMATION, SEE PC SHEET P-1.01

NOTE:
FOR ADDITIONAL PLAN INFORMATION, SEE PC DRAWINGS, SHEET A-1.03

SYMBOLS LEGEND

60" CIRCLE CLEAR SPACE

30"x48" CLEAR SPACE

60"x60" CLEAR SPACE @ WATER CLOSET

TOILET ACCESSORIES

A SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX PROJECTION

B PAPER TOWEL DISPENSER: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30"x48" CLEAR SPACE OF FIXTURE

C TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION

D TOILET SEAT COVER DISPENSER: SURFACE MOUNTED

E WALL MOUNTED WASTE RECEPTACLE, 6" MAX PROJECTION, 12" MAX ABV. FIN FLR TO BTM.

* PLEASE SEE PC SHEET P-1.01, DETAIL 10 FOR TOILET ACCESSORIES ADA MOUNTING HEIGHTS

BUILDING SEISMIC SEPARATIONS NOTE:
ALL INTERIOR AND EXTERIOR SEISMIC SEPARATION CLOSE-UP MATERIALS TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS, NOT ELITE MODULAR. PLEASE SEE ARCHITECT's DRAWINGS FOR INSTALLATION DETAILS
(ELITE MODULAR TO PROVIDE AND INSTALL PARAPET CAPS ONLY)

Building K Occcupancy

Number	Name	Occupancy	Area	Occupant Load Factor	Occupant Count	Required # of Exits
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109	OFFICE 6	B	104 SF	100	2	1
111	TEACHER'S WORK RM	B	398 SF	100	4	1
112	WORK ROOM	B	155 SF	100	2	1
113	NURSE	B	123 SF	100	2	1
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115	RR	B	80 SF	-	-	1
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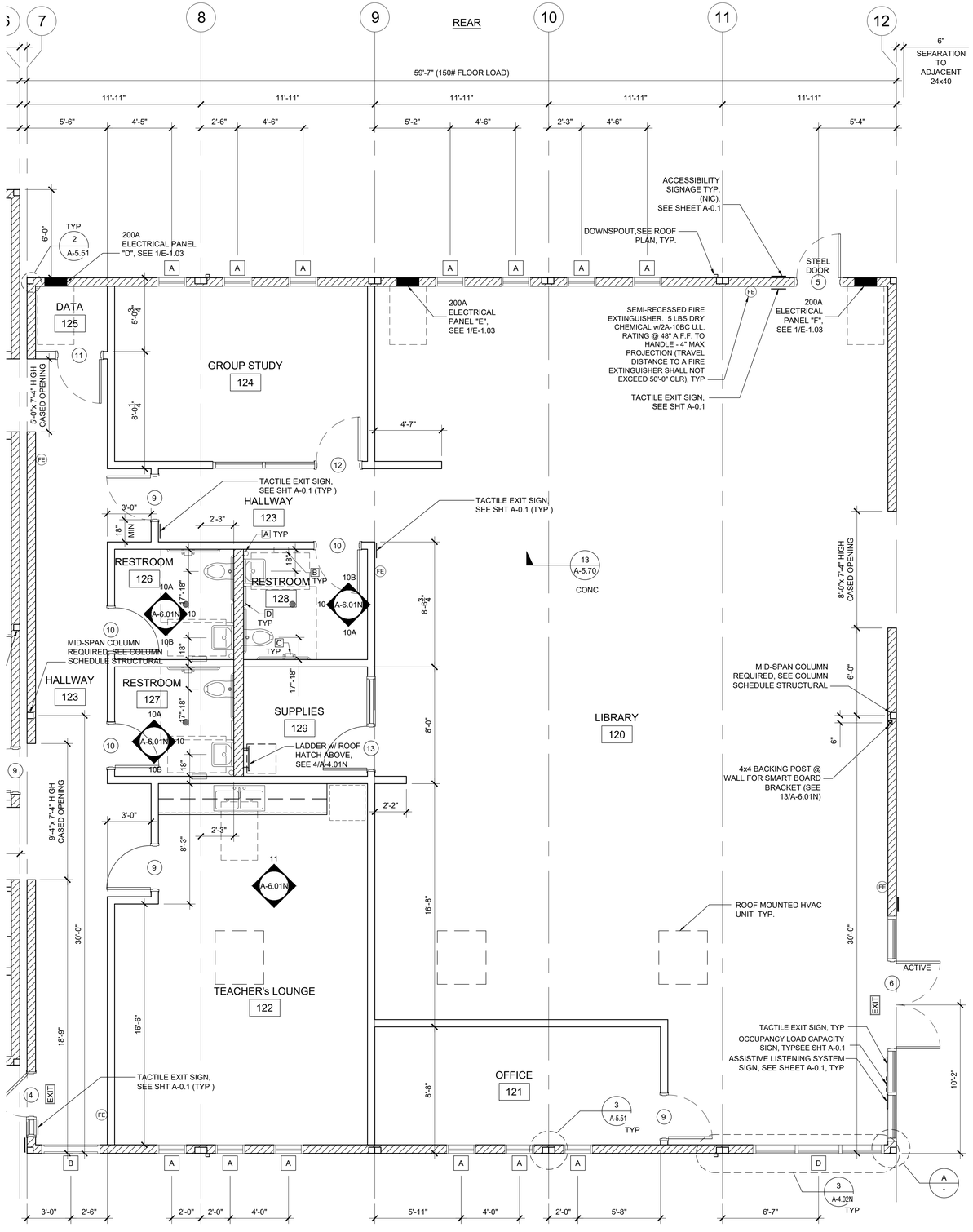
118	DATA	B	43 SF	100	1	1
119	ELEC. ROOM	B	44 SF	100	1	1
120	LIBRARY	B	1908 SF	100	20	1
121	OFFICE	B	159 SF	100	2	1
122	TEACHER'S LOUNGE	B	404 SF	100	5	1
124	GROUP STUDY	B	208 SF	100	3	1
125	DATA	B	22 SF	100	1	1
126	RR	B	60 SF	-	-	1
127	RR	B	60 SF	-	-	1
128	RR	B	63 SF	-	-	1
129	SUPPLIES	B	63 SF	300	1	1
130	RR	B	67 SF	-	-	1
131	PARENT CENTER	B	809 SF	100	9	1

NOTE:
ROOM SIGNAGE TO BE PROVIDED IN ACCORDANCE WITH 11B-216.2
SIGNAGE TO BE PROVIDED AND INSTALLED ON SITE BY OTHERS, NOT ELITE MODULAR



FRONT

FLOOR PLAN — SCALE: 1/4" = 1' - 0" — 1

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SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

FLOOR PLAN
60x60 LIBRARY

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 24175 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

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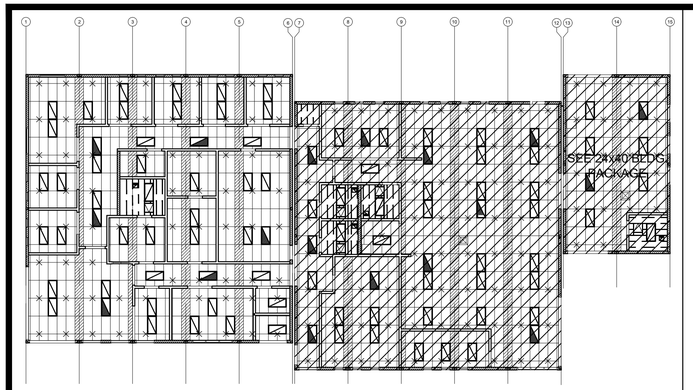
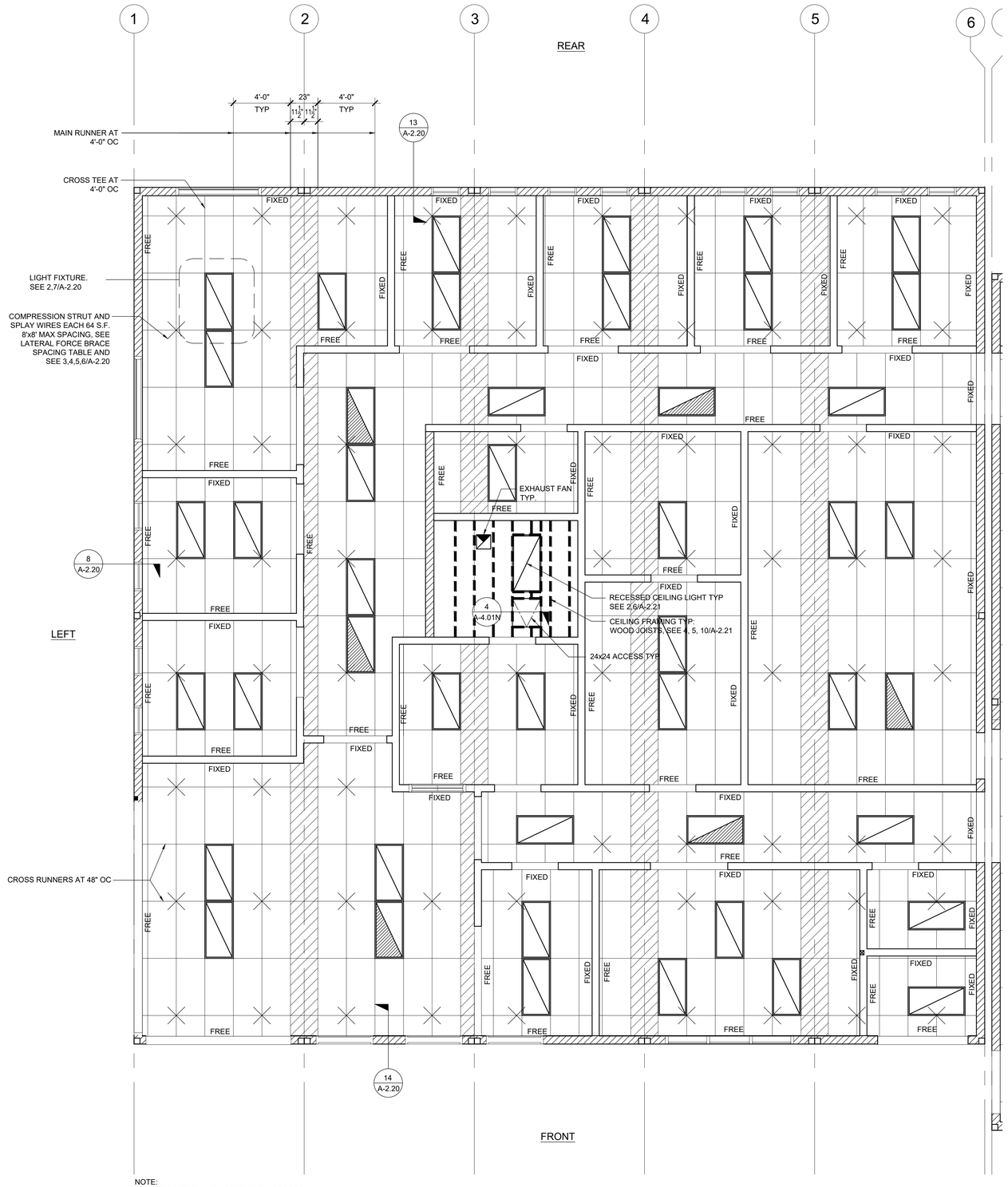
PHASE III



KEY PLAN — SCALE: 1/4" = 1' - 0" — A

NOTE:
SEE PC SHEET A-2.03
FOR CEILING NOTES
AND LEGEND



NOTE:
CEILING TO BE 9'-0" AFF (UNO) IN CLASSROOMS
8'-0" AFF (UNO) IN TOILET & ELECTRICAL ROOMS

REFLECTED CEILING PLAN — SCALE: 1/4" = 1' - 0" — 1

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ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

REFLECTED CEILING PLAN
60x60 ADMIN

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARK
2975
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

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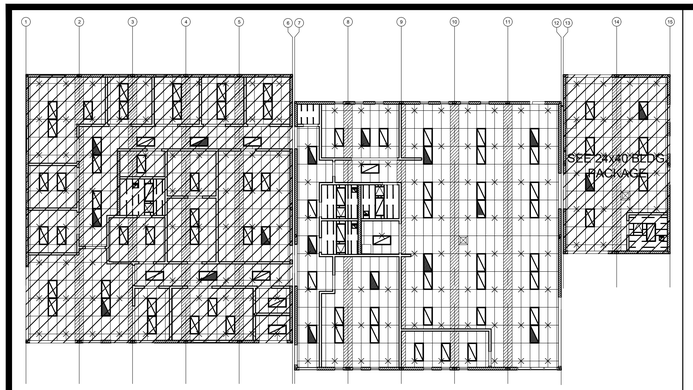
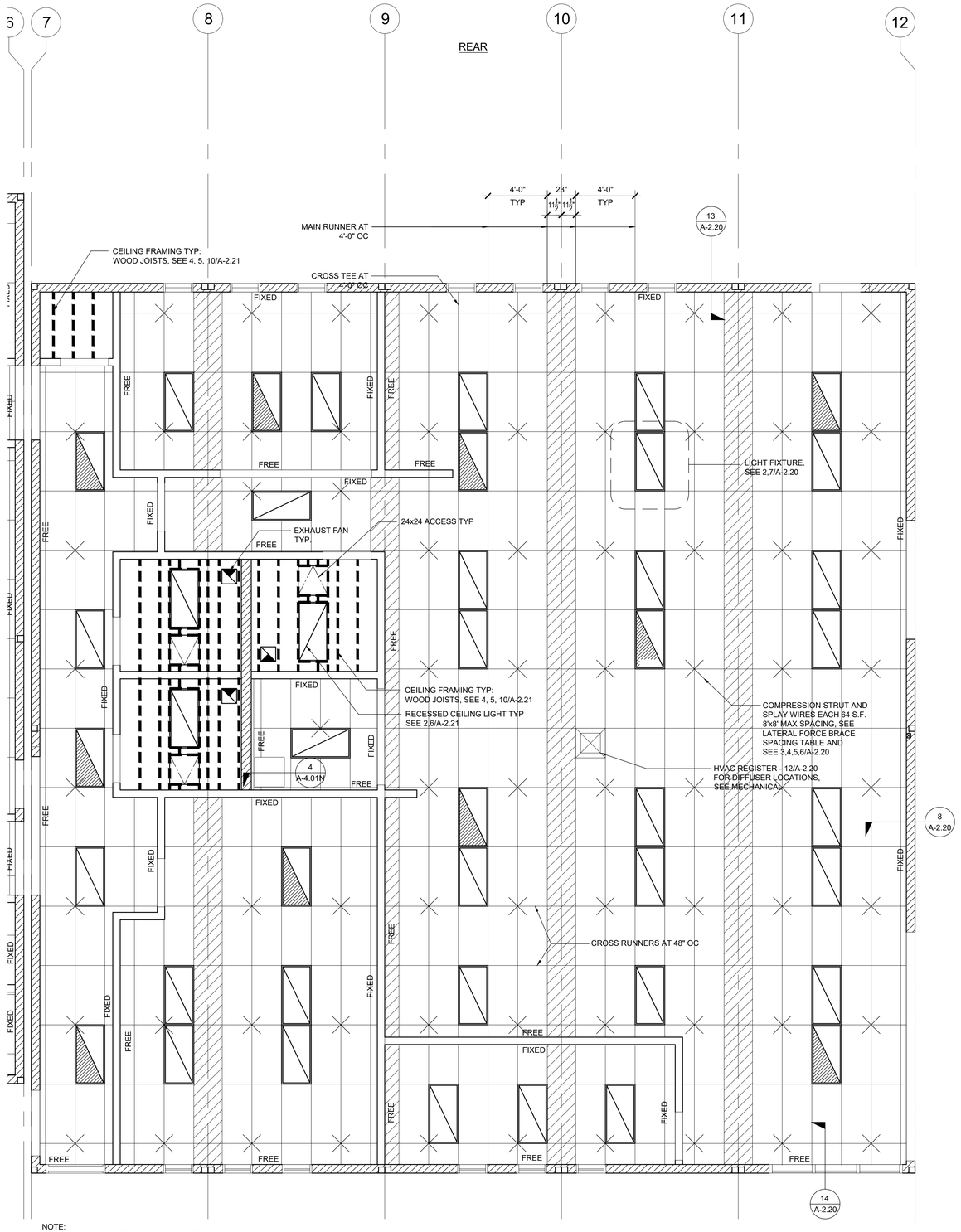


KEY PLAN — SCALE: 1/4" = 1' - 0" — A

NOTE:
SEE PC SHEET A-2.03
FOR CEILING NOTES
AND LEGEND



NOTE:
CEILING TO BE 9'-0" AFF (UNO) IN CLASSROOMS
8'-0" AFF (UNO) IN TOILET & ELECTRICAL ROOMS

FRONT

REFLECTED CEILING PLAN — SCALE: 1/4" = 1' - 0" — 1

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ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

REFLECTED CEILING PLAN
60x60 LIBRARY

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2575
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

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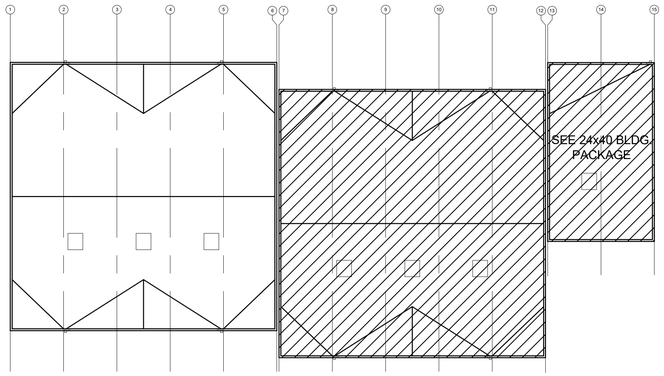
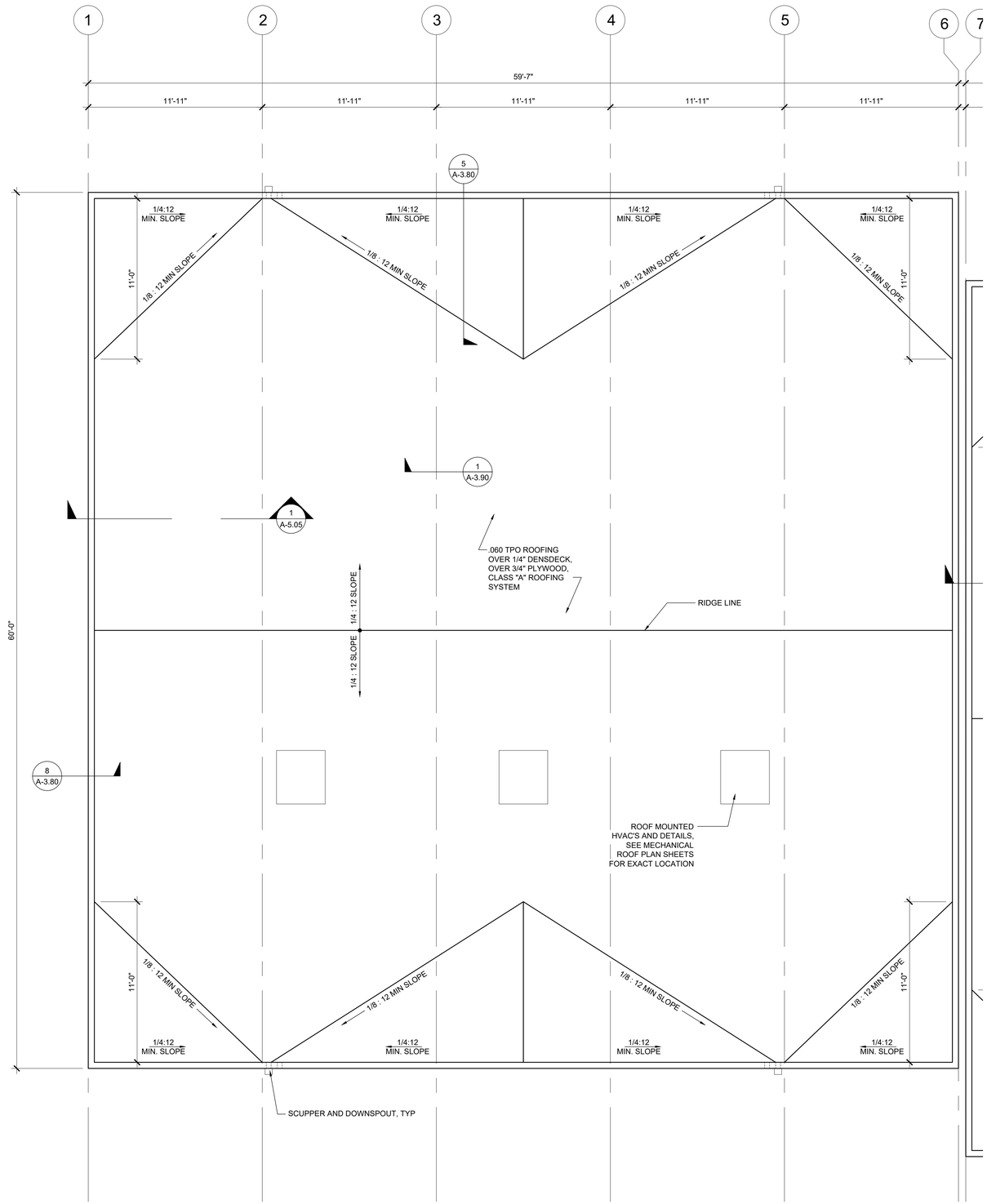


KEY PLAN — SCALE: 1/4" = 1' - 0" — A

NOTE:
SEE PC SHEET A-3.33
FOR ROOF NOTES
AND LEGEND



REFLECTED CEILING PLAN — SCALE: 1/4" = 1' - 0" — 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

ROOF PLAN
60x60 ADMIN

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARK
2975
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS
1
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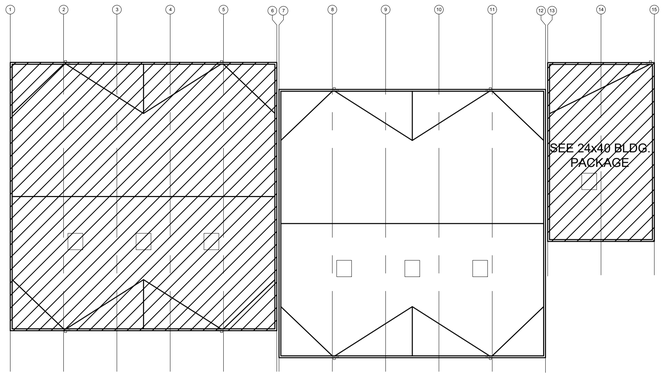
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 2-20-2020

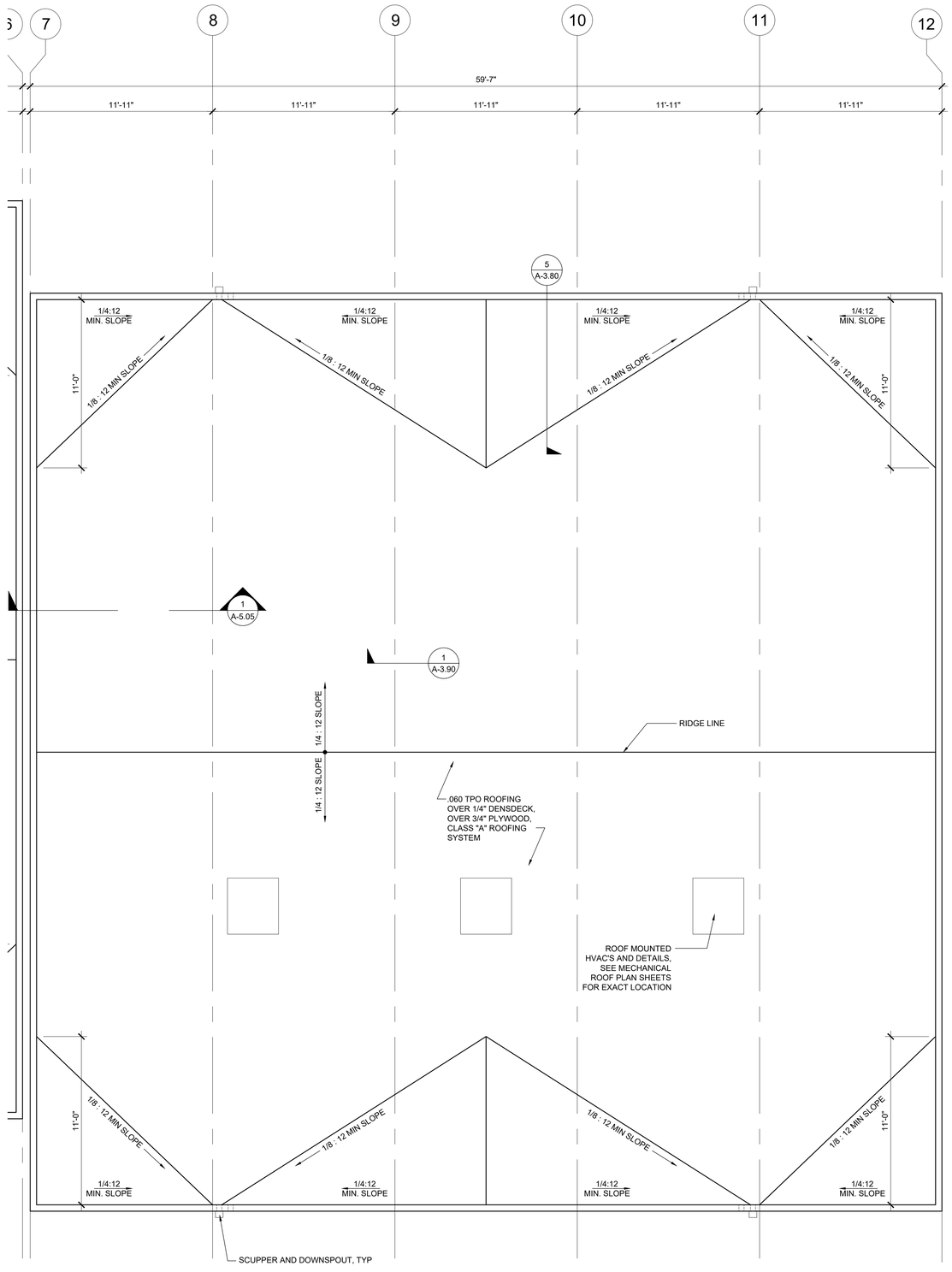
SHEET NUMBER
A-3.01N

PHASE III



KEY PLAN — SCALE: 1/4" = 1' - 0" — A

NOTE:
SEE PC SHEET A-3.33
FOR ROOF NOTES
AND LEGEND



REFLECTED CEILING PLAN — SCALE: 1/4" = 1' - 0" — 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

ROOF PLAN
60x60 LIBRARY

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARK JR
24753
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS
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PROJECT NO:
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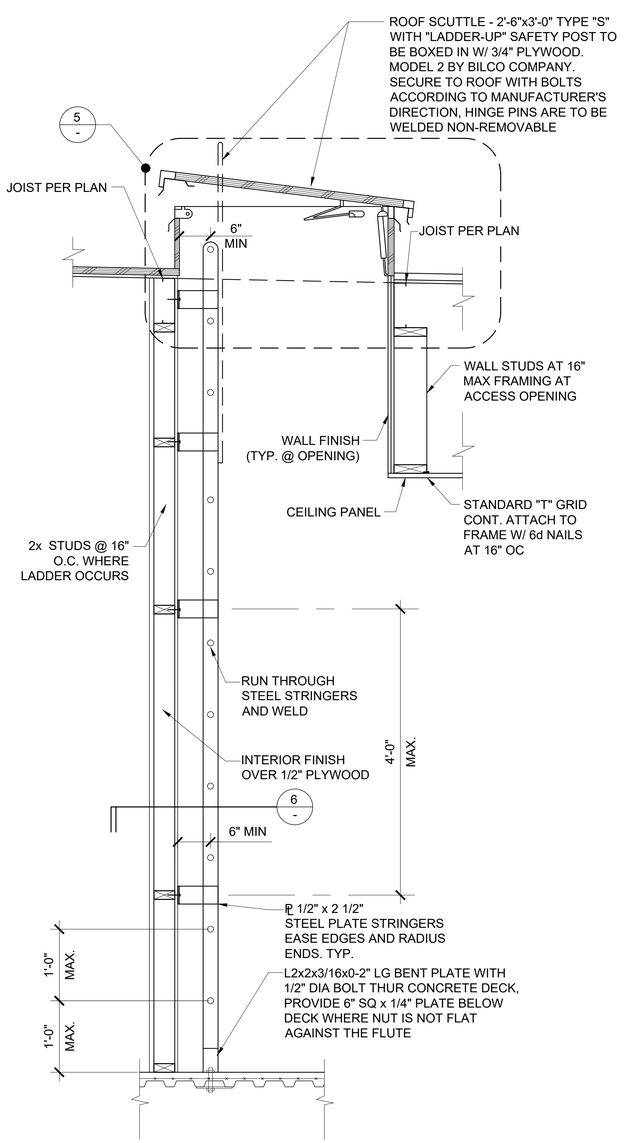
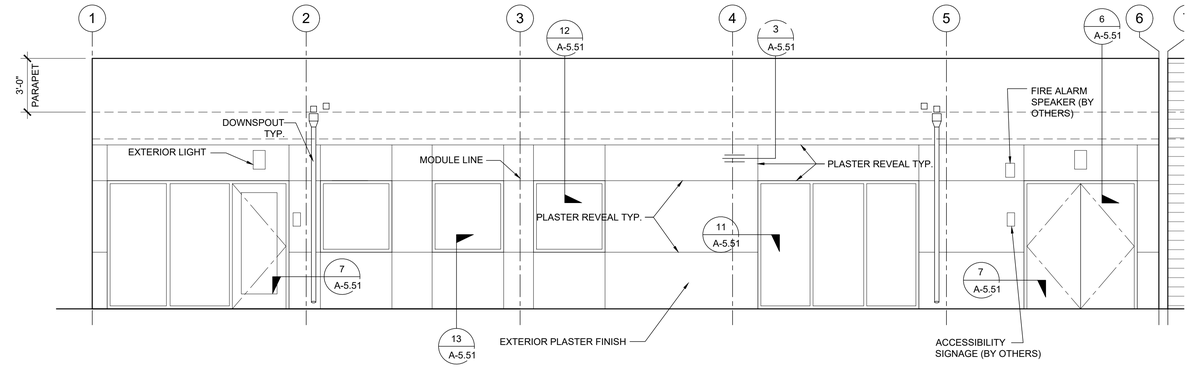
A-3.02N

PHASE III



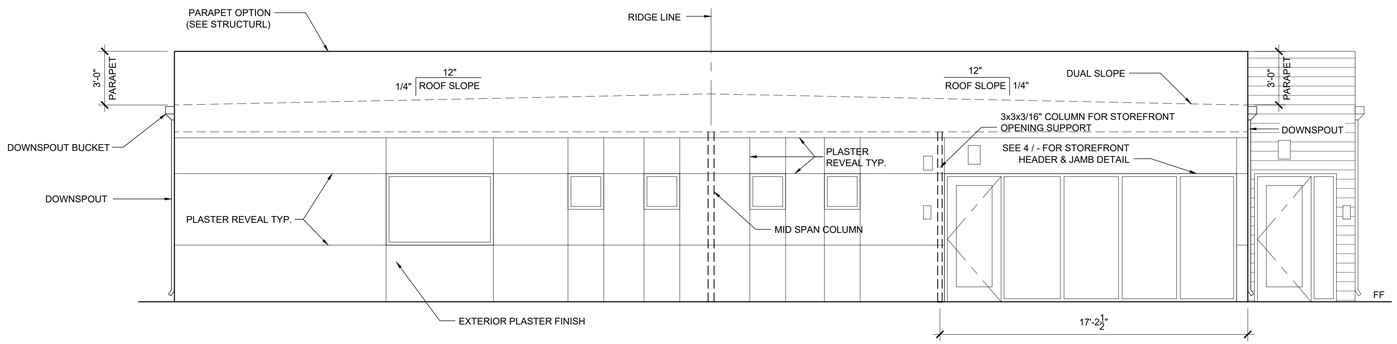
LADDER DETAIL

SCALE: 1" = 1' - 0" | 4



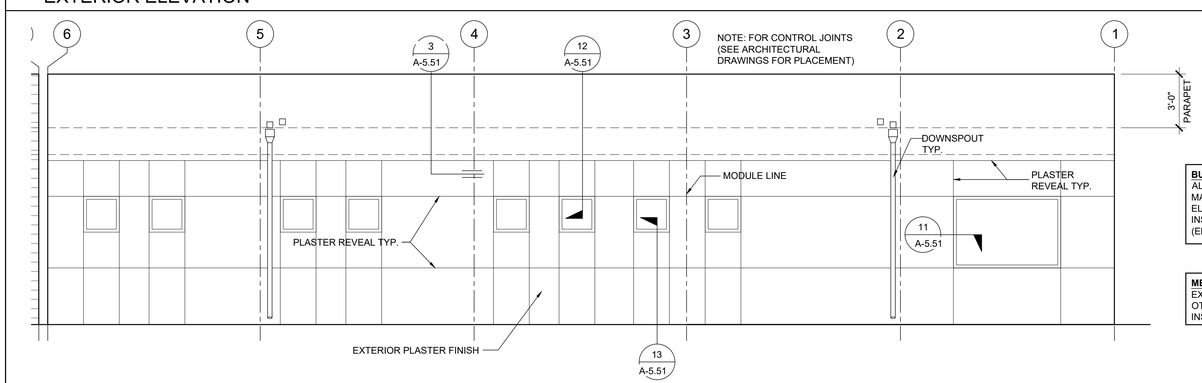
EXTERIOR ELEVATION

SCALE: 1/4" = 1' - 0" | 1



EXTERIOR ELEVATION

SCALE: 1/4" = 1' - 0" | 2

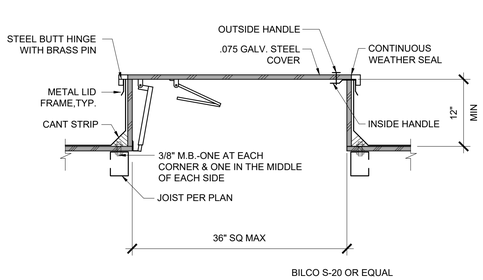


BUILDING SEISMIC SEPARATIONS NOTE:
ALL PARAPET CAPS AND EXTERIOR SEISMIC SEPARATION CLOSE-UP MATERIALS TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS, NOT ELITE MODULAR. PLEASE SEE ARCHITECT's DRAWINGS FOR INSTALLATION DETAILS
(ELITE MODULAR TO PROVIDE AND INSTALL INTERIOR CLOSE-UPS ONLY)

METAL SIDING NOTE:
EXTERIOR METAL SIDING TO BE PROVIDED AND INSTALLED ON SITE BY OTHERS, NOT ELITE MODULAR. PLEASE REFER TO ARCHITECT'S INSTALLATION DETAILS ON SHEET 3A8201

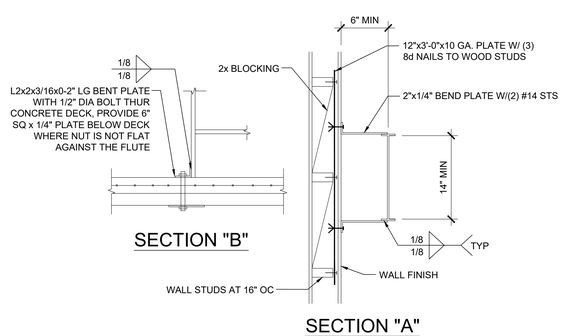
EXTERIOR ELEVATION

SCALE: 1/4" = 1' - 0" | 3



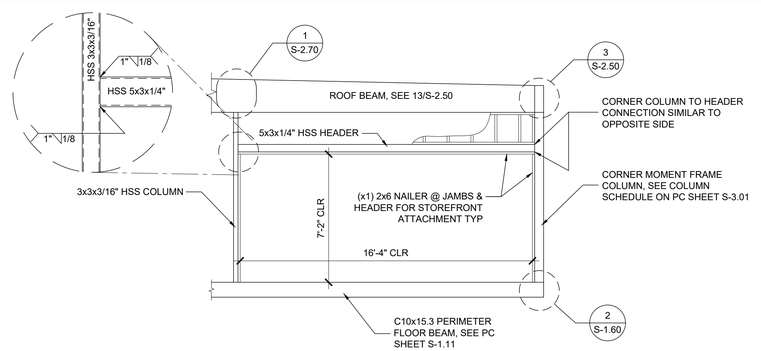
ROOF HATCH DETAIL

SCALE: 1" = 1' - 0" | 5



LADDER SECTION DETAIL

SCALE: 1" = 1' - 0" | 6



STOREFRONT OPENING DETAIL

SCALE: 1/4" = 1' - 0" | 7

IDENTIFICATION STAMP
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SS ☑ FLS ☑ ACS ☑
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ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

EXTERIOR ELEVATIONS
60x60 ADMIN

REGISTERED PROFESSIONAL ENGINEER JOHN W STARK 29175 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS
1
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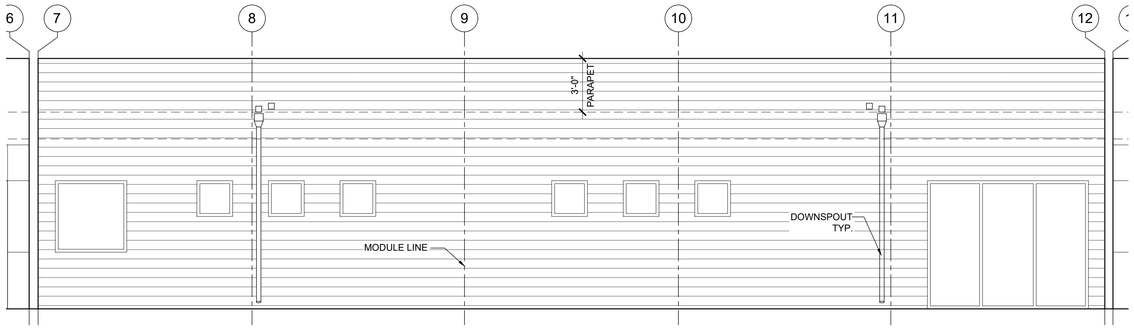
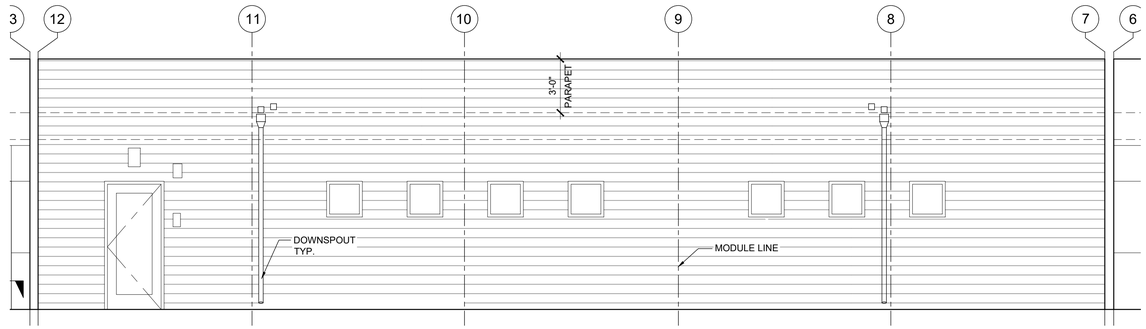
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 2-20-2020

SHEET NUMBER
A-4.01N

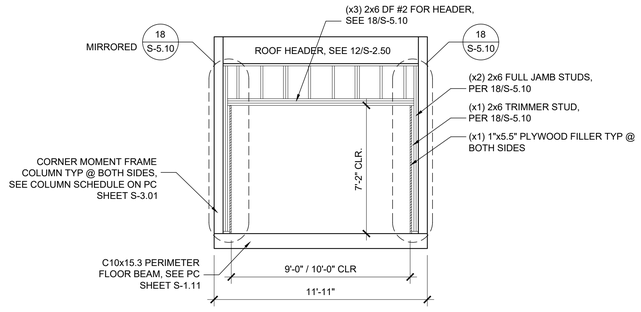
PHASE III



EXTERIOR ELEVATION — SCALE: 1/4" = 1' - 0" | 1



EXTERIOR ELEVATION — SCALE: 1/4" = 1' - 0" | 2



10' OPENING @ END WALL DETAIL — SCALE: 1/4" = 1' - 0" | 3

BUILDING SEISMIC SEPARATIONS NOTE:
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NOT USED | 4

IDENTIFICATION STAMP
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APP. 03-120102 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

EXTERIOR ELEVATIONS
60x60 LIBRARY

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARK
2975
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

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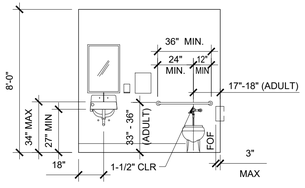
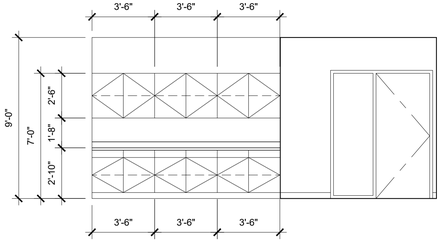
PHASE III



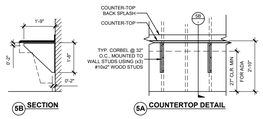
NOTE:
SEE PC SHEET P-1.01 FOR ADDITIONAL ACCESSIBLE DIMENSIONING / REQUIREMENTS.

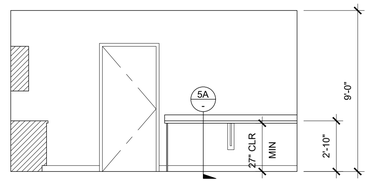
SCALE: 1/4" = 1' - 0"

INTERIOR ELEVATION 10



INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 9





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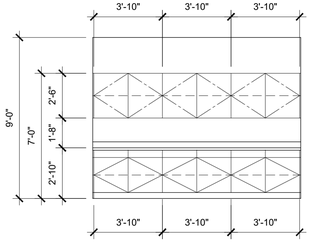

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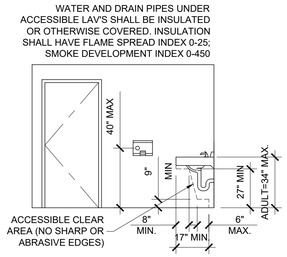
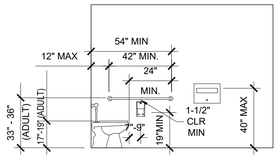
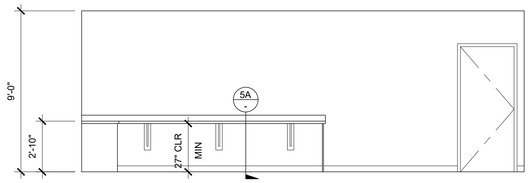


INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 10B



INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 10A



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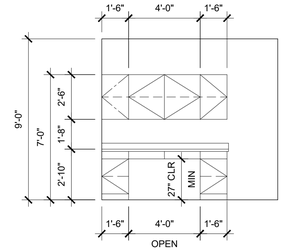

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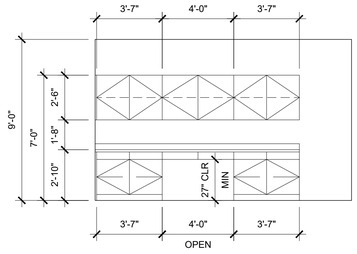
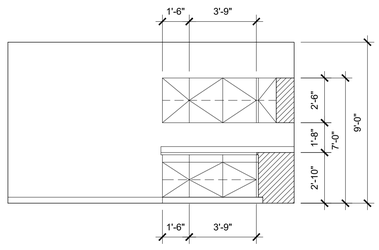
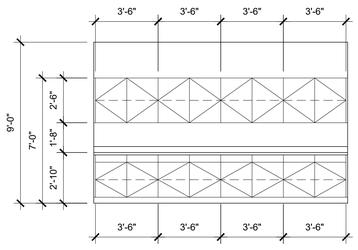


INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 11



INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 7



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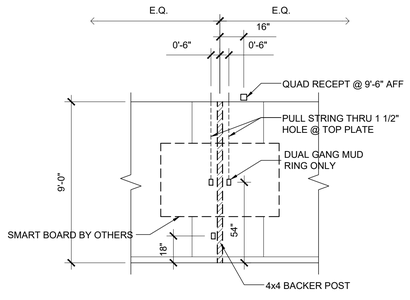

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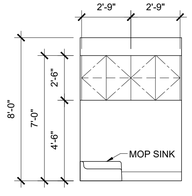

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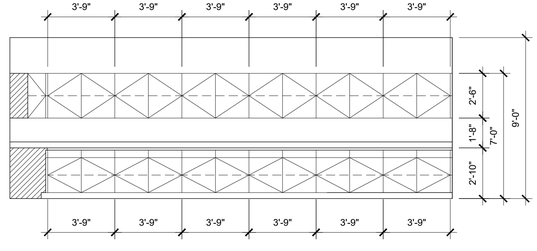

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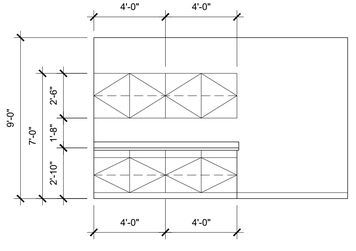

INTERIOR ELEVATION SCALE: 1/4" = 1' - 0" 4

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DATE: 03/27/2020

ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

INTERIOR ELEVATIONS

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS
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PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
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SHEET NUMBER
A-6.01N

PHASE III

NOTES

1. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
2. 8'-0" MAXIMUM VENT SIZE AT SIDE WALLS
   4'-0" MAXIMUM VENT SIZE AT END WALLS
   3'-0" MINIMUM DISTANCE FROM EDGE OF VENT TO STEMWALL CORNER
   2-0" MINIMUM DISTANCE BETWEEN VENT EDGES
3. CRAWLSPACE VAPOR RETARDERS (OPTIONAL):

   THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1203.4.2(2).
   MATERIALS:
   GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
   INSTALLATION RECOMMENDATIONS:
   OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; EXTEND VAPOR RETARDER A MINIMUM OF 6 INCHES UP THE STEM WALL (MORE IS BETTER); SEAL TO ALL PIERS AND OTHER PENETRATIONS.
4. SOIL BEARING PRESSURE OF 1500 PSF USED FOR DESIGN.
5. PER GEO TECHNICAL REPORT, KA NO 022-18132
   - PROVIDE OVER EXCAVATION PER REPORT, PAGE 16
   - ENGINEERING FILL PER PAGE 18
   - FOUNDATION PER PAGE 19
6. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.

ANCHOR NOTES:
1. ANCHOR PLATES SHALL BE PLACED SUCH THAT THE FOLLOWING MINIMUM CRITERIA ARE MET:
   - ONE (1) LARGE ANCHOR PLATE AT EA. END OF EVERY MATE LINE.
   - ONE (1) ANCHOR PLATE WITHIN 35" OF OVERALL BUILDING CORNERS IN EA DIRECTION.
2. SIDE WALL AND END WALL ANCHOR PLATES, OTHER THAN THOSE DESCRIBED IN NOTE 1, MAY BE PLACED AT ANY LOCATION ALONG THE BUILDING, BUT SHOULD BE SPACED AS EVENLY AS POSSIBLE.
3. ANCHOR PLATES WITHIN 21" OF A VENT, OPENING, OR CORNER SHALL BE REINFORCED WITH HAIRPINS PER 18/F-2.51B

VENTING SCHEDULE

VENT "A" :	(8'-0" x 8" METAL SCREEN COVER) 7'-10" x 5" = 3.26 S.F. VENTILATION
VENT "B" :	(6'-0" x 8" METAL SCREEN COVER) 5'-10" x 5" = 2.43 S.F. VENTILATION
VENT "C" :	(4'-0" x 8" METAL SCREEN COVER) 3'-10" x 5" = 1.59 S.F. VENTILATION
ACCESS/VENT "D" :	(3'-0" x 2'-0" METAL SCREEN COVER) 2'-10" x 18" = 4.25 S.F. VENTILATION

FOOTING SCHEDULE @ 60x60 BLDGs

DESIGN FLOOR LIVE LOAD	SIDEWALL FOOTING	ENDWALL FOOTING	INTERIOR PAD FOOTING	
50 + 15 PSF	12" WIDE (2) #5 CONT T&B	22" WIDE (4) #5 CONT T&B	3'-6" SQ (3) #5 EW	
150 PSF	16" WIDE (2) #5 CONT T&B	24" WIDE (4) #5 CONT T&B	4'-3" SQ (4) #5 EW	

NOTE:
PLEASE REFER TO CIVIL PLANS FOR TOP OF FOOTING ELEVATION RELATIVE TO FINISHED FLOOR ELEVATION. ALSO PLEASE SEE DETAILS 2 THROUGH 5 ON PC SHEET F-2.50 FOR MINIMUM AND MAXIMUM ALLOWABLE FOUNDATION STEM WALL HEIGHTS

FOOTING SCHEDULE @ 24X40 BLDG

DESIGN FLOOR LIVE LOAD	SIDEWALL FOOTING	ENDWALL FOOTING	INTERIOR PAD FOOTING	
50 + 15 PSF	12" WIDE (2) #5 CONT T&B	18" WIDE (3) #5 CONT T&B	3'-2" SQ (3) #5 EW	

ANCHOR PLATE SCHEDULE (60x60 BLDGs)

TOTAL NO. OF ANCHOR PLATES ALONG EACH DIRECTION (MATE-LINE END PLATES MAY BE COUNTED IN END WALL DIRECTION)

No. OF MODULES	DIRECTION	DESIGN FLOOR LIVE LOAD UP TO 100 PSF	150 PSF
5	SIDE WALL	3	4
	END WALL	14	15
	MATE LINE	2 LARGE	4 LARGE

SYMBOLS LEGEND (WELDED CONNECTION)

- L6" x 4" x 3/8" EMBED PLATE, SEE DETAIL 9 / F-2.51
- ADDITIONAL L6" x 4" x 3/8" EMBED PLATE @ 150 PSF CONDITION ONLY, SEE DETAIL 9 / F-2.51
- 16" x 16" x 3/8" EMBED PLATE, SEE DETAIL 14 / F-2.51
- ADDITIONAL 16" x 16" x 3/8" EMBED PLATE @ 150 PSF CONDITION ONLY, SEE DETAIL 14 / F-2.51
- 6" x 8" x 3/8" EMBED PLATE, SEE DETAIL 7 / F-2.50
- 6" x 16" x 3/8" EMBED PLATE, SEE DETAIL 12 / F-2.50

ANCHOR PLATE SCHEDULE (24x40 BLDG)

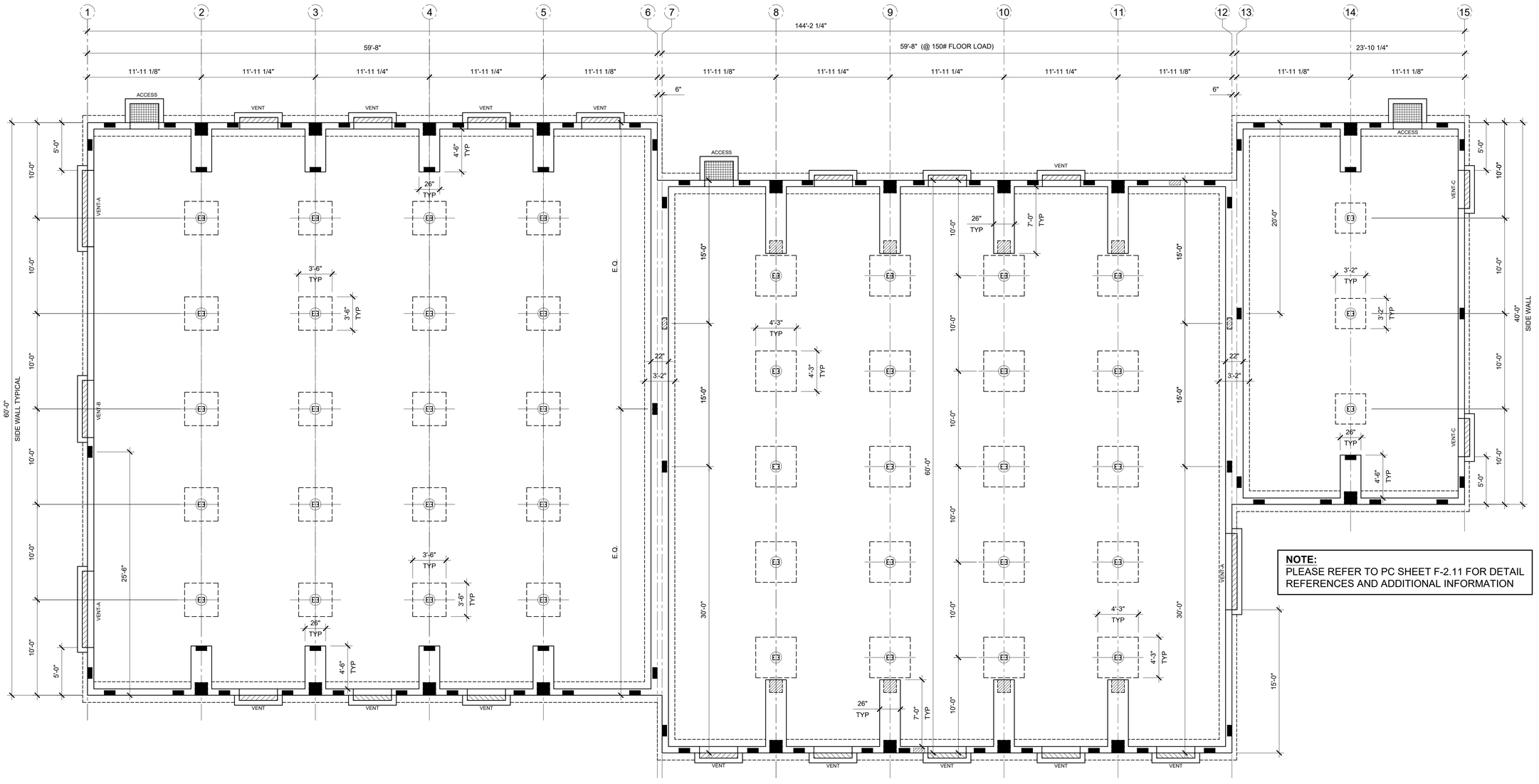
TOTAL NO. OF ANCHOR PLATES ALONG EACH DIRECTION (MATE-LINE END PLATES MAY BE COUNTED IN END WALL DIRECTION)

No. OF MODULES	DIRECTION	DESIGN FLOOR LIVE LOAD UP TO 100 PSF	
2	SIDE WALL	3	
	END WALL	5	
	MATE LINE	2 LARGE + 2 SMALL	

60' x 60' BUILDING: 60' x 60' = 3600 SF / 150 = 24 SF VENT. REQ'D
2 - "A" VENT = 6.52 SF
1 - "B" VENT = 2.43 SF
7 - "C" VENT = 11.13 SF
1 - "D" ACCESS VENT = 4.25 SF
24.33 SF TOTAL VENTILATION (> 24 SF)

60' x 60' BUILDING: 60' x 60' = 3600 SF / 150 = 24 SF VENT. REQ'D
2 - "A" VENT = 6.52 SF
8 - "C" VENT = 13.28 SF
1 - "D" ACCESS VENT = 4.25 SF
24.05 SF TOTAL VENTILATION (> 24 SF)

24' x 40' BUILDING: 24' x 40' = 960 SF / 150 = 6.4 SF VENT. REQ'D
2 - "C" VENT = 3.18 SF
1 - "D" ACCESS VENT = 4.25 SF
7.43 SF TOTAL VENTILATION (> 6.4 SF)



NOTE:
PLEASE REFER TO PC SHEET F-2.11 FOR DETAIL REFERENCES AND ADDITIONAL INFORMATION

FOUNDATION PLAN

SCALE: 1/4" = 1' - 0"

1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

FOUNDATION KEY PLAN

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS
1
2
3
4
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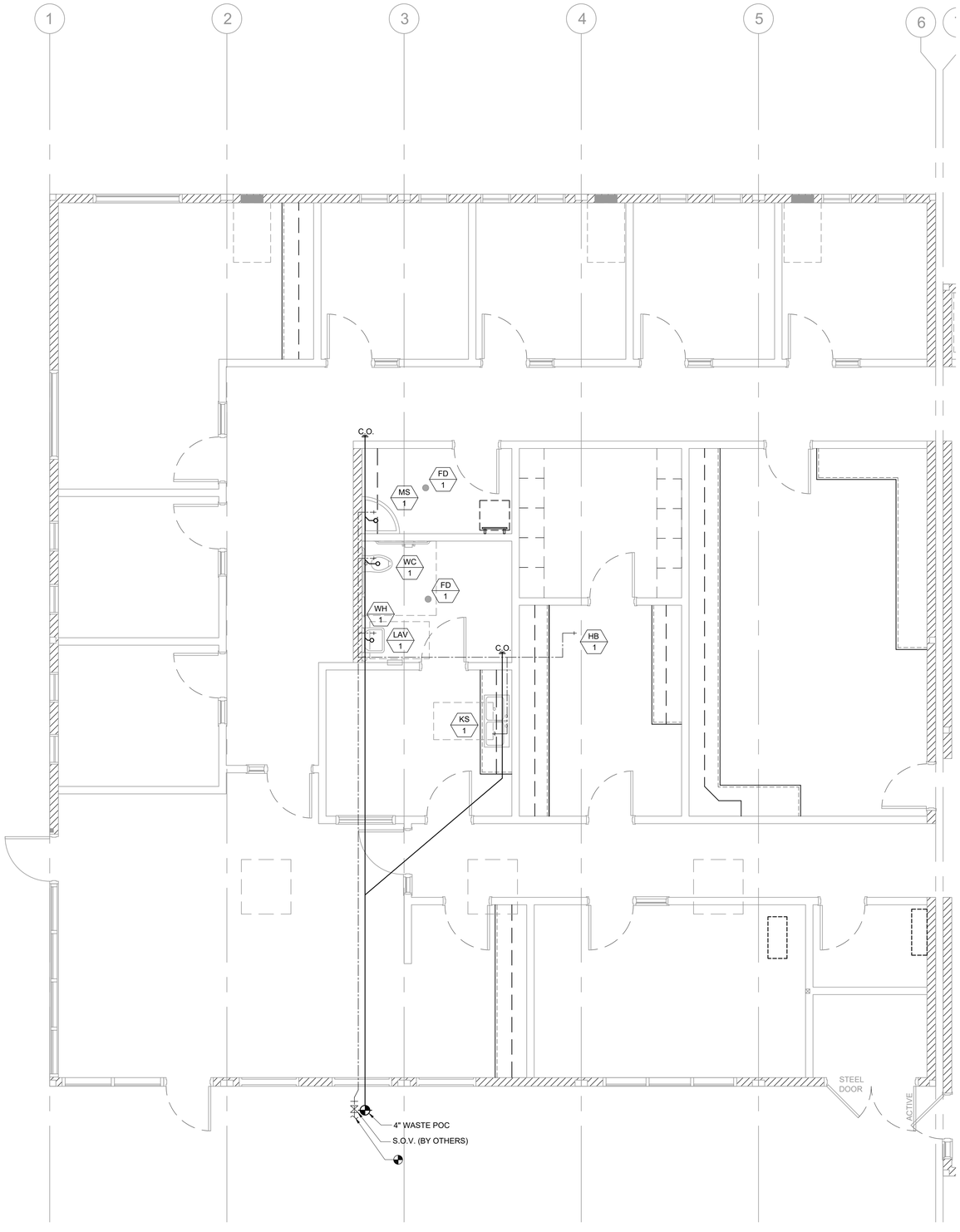
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 2-20-2020

SHEET NUMBER
F-2.11N

PHASE III

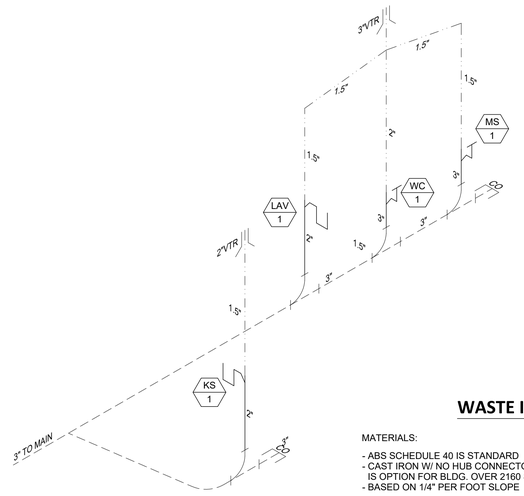


PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL)
WC 1	[ADULT] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	KOHLER KINGSTON #K-4330 ALT: AMERICAN STD #2257.103 16 3/4" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 10" ROUGH-IN; BEMIS #1955C ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
LAV 1	LAVATORY (ACCESSIBLE)	1/2"	-	2"	1 1/2"	KOHLER HUDSON #K-2861 CHINA; JAY R SMITH #722 CONCEALED HANGER; CHICAGO #3300-CP SINGLE HANDLE FAUCET
WHA 1	WATER HAMMER ARRESTOR	1"	-	-	-	PPP SC-1000
WH 2	INSTANT WATER HEATER (OPTION)	1/2"	1/2"	-	-	EEMAX #SP3012, 120V, 3.0KW, 25A
HB 1	HOSE BIBB	1/2"	-	-	-	FROST RESISTANT HOSE BIBB
KS 1	KITCHEN SINK	1/2"	-	2"	1 1/2"	ADA ACCESSIBLE DOUBLE BOWL KITCHEN SINK ELKAY STAINLESS STEEL SINK w/ HAWS 5054LF BUBBLER, HAWS 5510LF FAUCET, BRASS ANGLE STOPS, BRASSCRAFT COPPER FAUCET RISER, ONE PIECE WITH INSERT, BRASSCRAFT SPEEDI-PLUMB PLUS CONNECTOR & AQUAPURE WATER FILTER AP717
MS 1	MOP SINK	1/2"	1/2"	2"	1 1/2"	KOHLER K-6710 "WHITBY" 28"X28" CAST IRON W/ CHIGAGO FAUCET 956-R, 853 WALL HOOK, AND 2" K-9142 STRAINER
FD 1	FLOOR DRAIN	-	-	2"	1 1/2"	JAY R SMITH #2005YA-02-P050-NB. FLOOR DRAIN TAPPED FOR PRIMER, 5" NICKEL BRONZE STRAINER W/ 1/4" MAX. GRATE OPENINGS

ACCESSORIES:

- BOBRICK B-165 24"x36" STAINLESS STEEL GLASS MIRROR
- BOBRICK B-6806 1 1/2" DIA. CLASSIC SERIES GRAB BAR (48" @ SIDE & 36" @ REAR IN ADA RESTROOMS)
- BOBRICK B-663 TOILET PAPER DISPENSER
- DEDICATED 230V J-BOX @ 36" AFF FOR ELECTRIC HAND DRYERS (HAND DRYERS TO BE PROVIDED & INSTALLED ON SITE BY OTHERS)



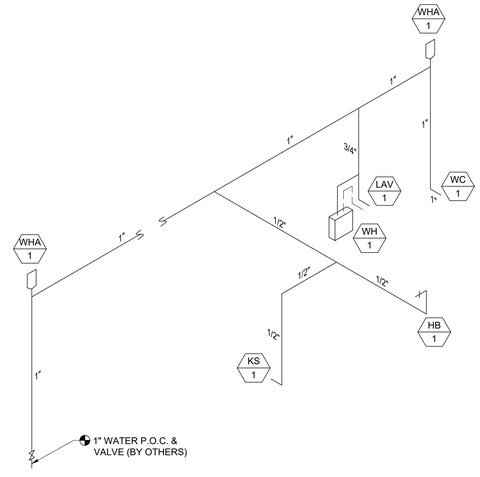
WASTE ISOMETRIC

MATERIALS:

- ABS SCHEDULE 40 IS STANDARD
- CAST IRON W/ NO HUB CONNECTOR IS OPTION FOR BLDG. OVER 2160 SF.
- BASED ON 1/4" PER FOOT SLOPE

VENT LINE

WASTE LINE



COLD WATER LINE

HOT WATER LINE

NOTE:
- HOT WATER LINE INSULATION TO BE INSTALLED AT FIRST 8' FROM THE WATER HEATER ON NON-RECIRCULATING SYSTEMS
- ALL HOT WATER LINES TO BE INSULATED WHEN RE-CIRCULATING SYSTEMS ARE USED. INSULATION FLAME SPREAD INDEX 0-25 & SMOKE DEVELOPMENT 0-450

NOTE: ALL FIXTURES SHALL HAVE SHUT-OFF VALVES

TYPE "L" COPPER
MAX. DEV. LENGTH = 40 FT.
PRESSURE RANGE = 40 TO 60 PSI

IDENTIFICATION STAMP
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APP. 03-120102 INC:
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PROJECT NAME:

SHEET TITLE:
PLUMBING PLAN, ISOMETRICS & SCHEDULES
60x60 ADMIN

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS
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PROJECT NO:
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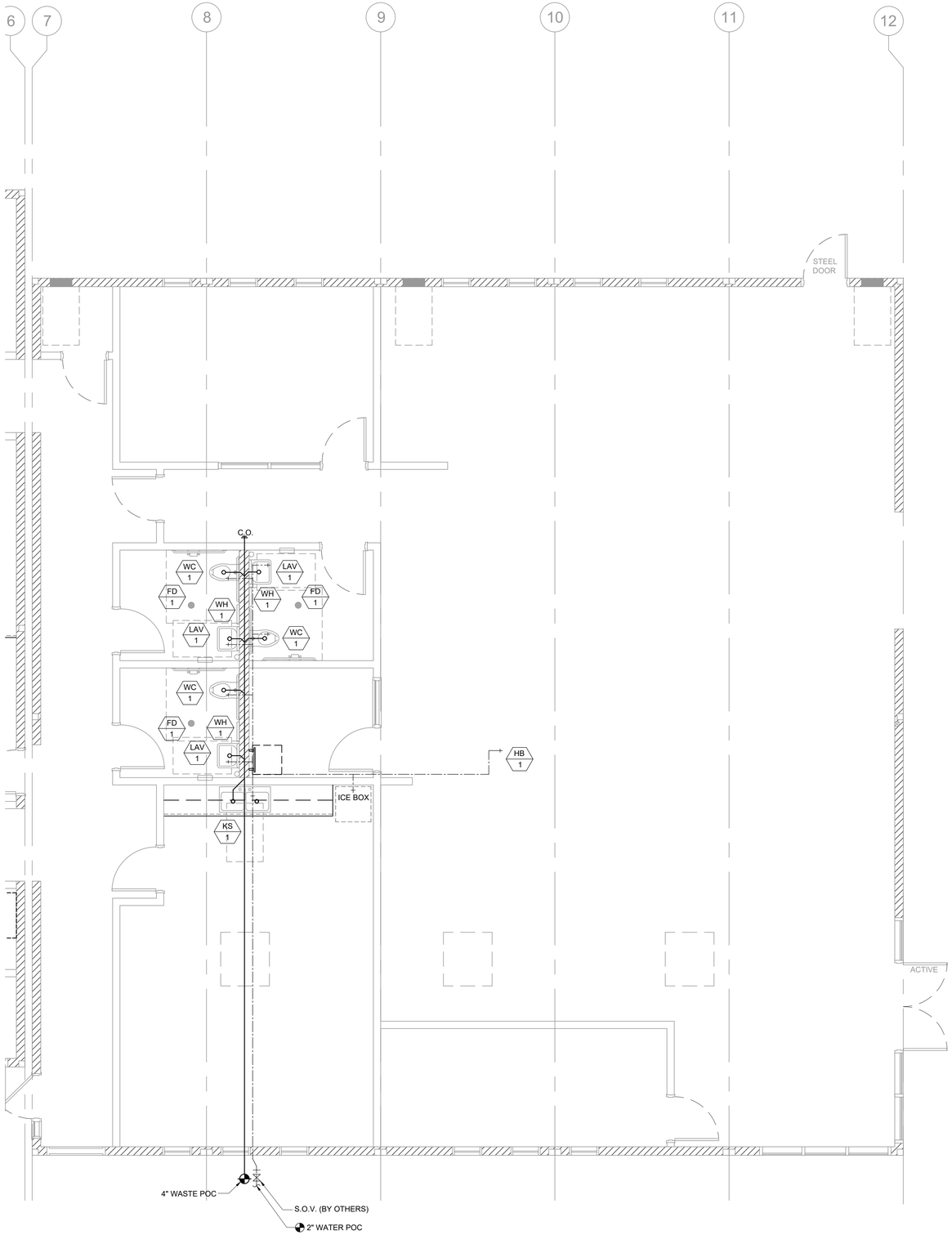
SHEET NUMBER
P-1.01N

PHASE III

PLUMBING PLAN — SCALE: 1/4" = 1' - 0" | 1

PLUMBING ISOMETRICS & SCHEDULES — SCALE: 1/4" = 1' - 0" | 1



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PLUMBING FIXTURE SCHEDULE

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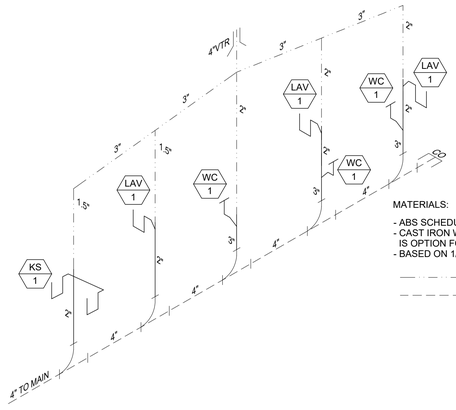
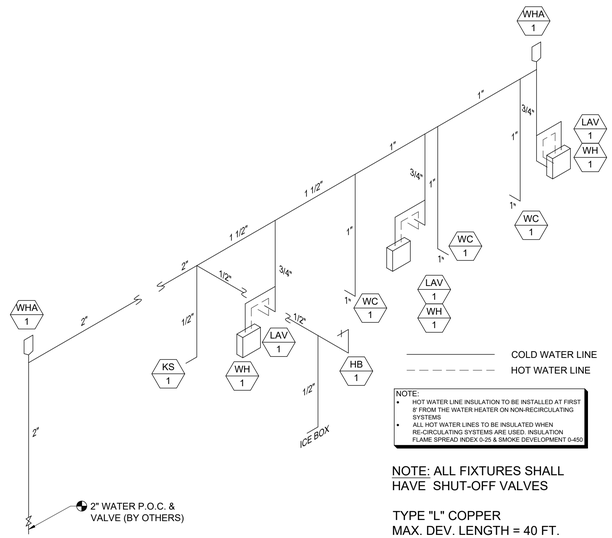


WASTE ISOMETRIC



NOTE: ALL FIXTURES SHALL HAVE SHUT-OFF VALVES

TYPE "L" COPPER
MAX. DEV. LENGTH = 40 FT.
PRESSURE RANGE = 40 TO 60 PSI

PLUMBING ISOMETRICS & SCHEDULES — SCALE: 1/4" = 1' - 0" — 1

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ELITE MODULAR

PROJECT NAME:

SHEET TITLE:
PLUMBING PLAN, ISOMETRICS & SCHEDULES
60x60 LIBRARY

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS
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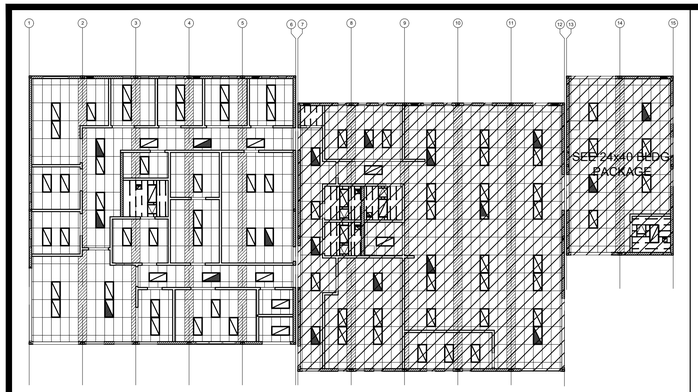
P-1.02N

PHASE III



KEY PLAN — SCALE: 1/4" = 1'-0" — A

DRAWING SYMBOLS

- SUPPLY DUCT
- RETURN DUCT
- 12" — NUMBER INDICATES DUCT SIZE
- FLEX DUCT (5'-0" MAX)
- RETURN REGISTER
- SUPPLY REGISTERS
- TRANSFER GRILL
- EXHAUST FAN
- 12"x12" HOLE THRU BEAM
- FIRE DAMPER
- (50) DUCT SMOKE DETECTOR
- DIRECTIONAL AIR FLOW
- BAROMETRIC RELIEF DAMPER THRU WALL
- UCD — UNDERCUT DOOR
- (R) BAROMETRIC RELIEF DAMPER THRU ROOF
- (T) THERMOSTAT
- (CO2) CO2 SENSOR
- DAMPER
- EQUIPMENT CALLOUT: TOP = EQUIPMENT TYPE, BOTTOM = IDENTIFICATION
- EP — EXTRA PURLIN
- E — ELECTRICAL LOCATION
- CD — CONDENSATE DRAIN
- G — GAS LOCATION

EQUIPMENT & MATERIAL

AC 1 – AC 4

DAY & NIGHT MODEL # PHD448000K000F1 PACKAGED ROOF MOUNTED HEAT PUMP
48,000 BTUH COOLING, SEER = 14.00
46,000 BTUH HEATING, HSPF = 8.00
1600 CFM NOMINAL @ .2" S.P., WT. = 525 LBS
230v 1 Ph 60 CY., MAX. F.L.A. = 28.3 AMPS.
WITH FACTORY ROOF CURB, OUTSIDE AIR INTAKE W/ FILTER RACK

AC 5 – AC 14

DAY & NIGHT MODEL # PHD460000K000F1 PACKAGED ROOF MOUNTED HEAT PUMP
57,500 BTUH COOLING, SEER = 14.00
56,000 BTUH HEATING, HSPF = 8.00
1750 CFM @.2 S.P., WT. = 575 LBS.
230v 3 Ph 60 CY., MAX. F.L.A. = 33.4 AMPS.
WITH FACTORY ROOF CURB, OUTSIDE AIR INTAKE W/ FILTER RACK

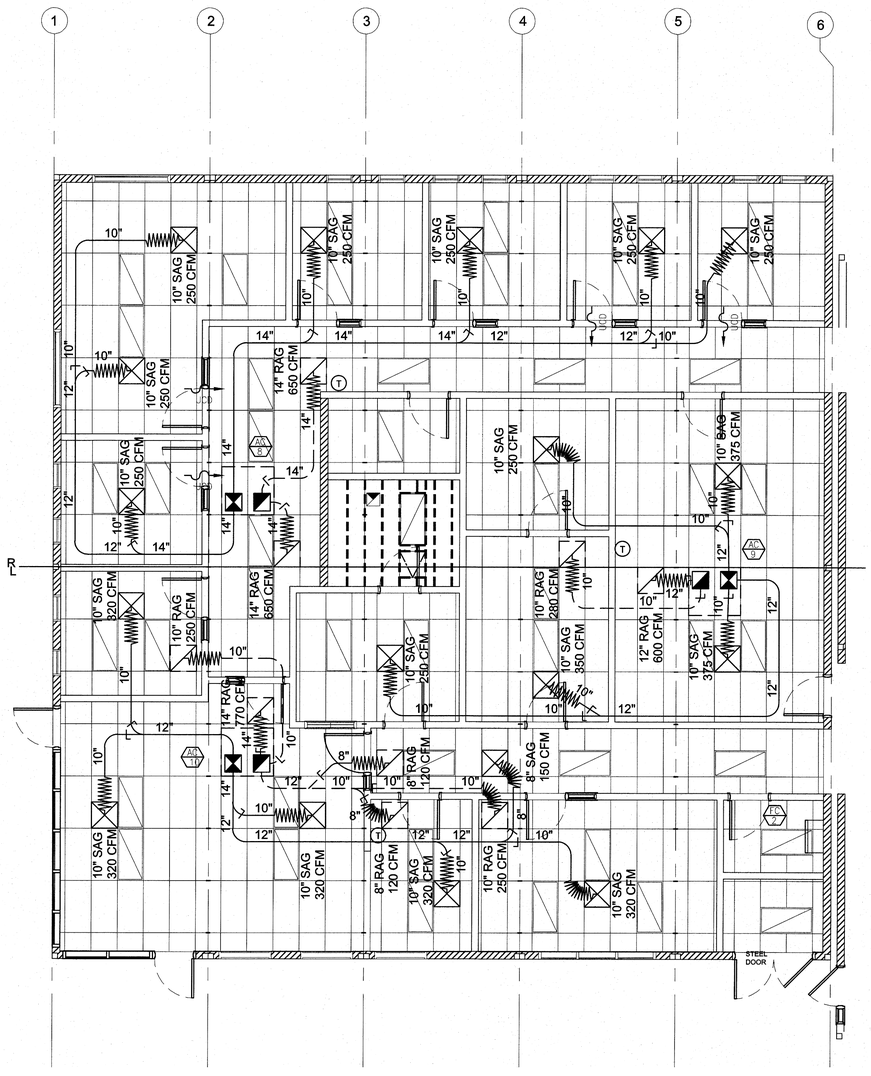
FC 1 – FC 2

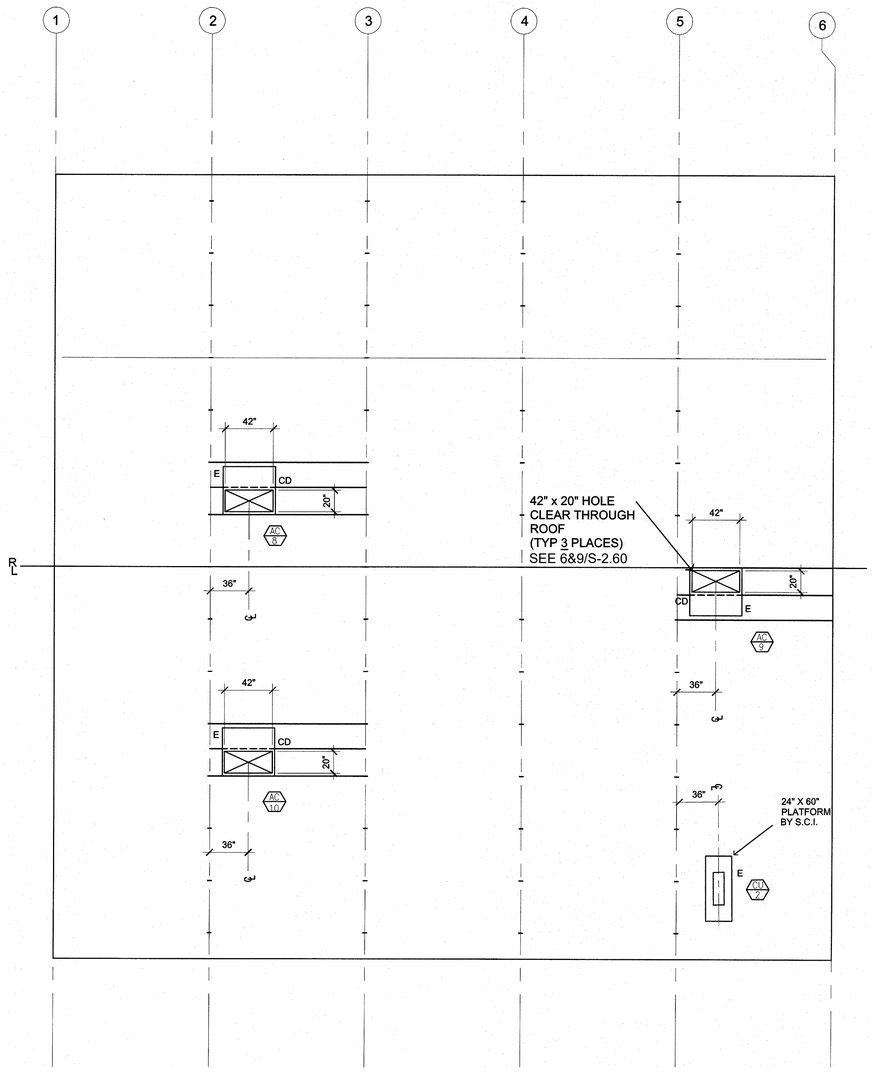
FUJITSU MODEL #ASU24RLB WALL MOUNTED AIR HANDLER
400 CFM NOMINAL, WT. = 31 LBS
208/230V – 1 PH – 60 CY

CU 1 – CU 2

FUJITSU MODEL #AOU24RLD CONDENSING UNIT
24,000 BTUH COOLING, SEER = 18.00 WT. = 86 LBS
208/230V – 1 PH – 60 CY, MAX F.L.A. = 10.5 AMPS

SUPPLY AIR PLENUMS	:	GALV. IRON SHEETS W/ 1" LINER INSULATION
RETURN AIR PLENUMS	:	GALV. IRON SHEETS W/ 1" LINER INSULATION
INTERIOR DUCTWORK	:	SPIRAL DUCTWORK W/ FSK INSULATION WRAP FLEX DUCT CLASS 1 UL-181, MAX LENGTH 5'-0"
SUPPLY AIR REGISTERS	:	US AIRE '7600' SERIES
RETURN AIR GRILLES	:	US AIRE '7600R' SERIES
THERMOSTAT	:	WHITE RODGERS '1F95' SERIES





MECHANICAL PLAN — SCALE: 1/4" = 1'-0" — 1

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PROJECT NAME:

SHEET TITLE:

MECHANICAL PLAN
60x60 ADMIN

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS
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PROJECT NO:
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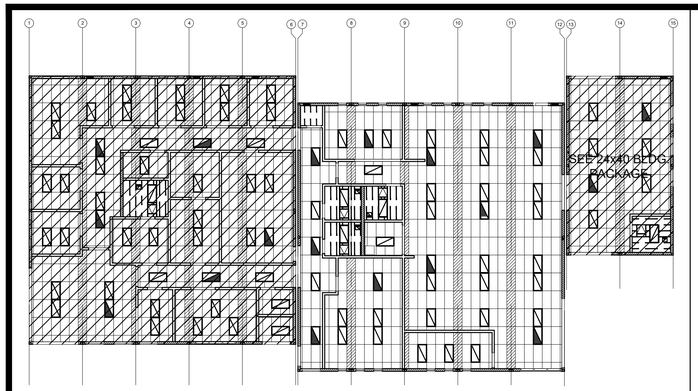
PHASE III



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EQUIPMENT & MATERIAL

AC 1, AC 2, AC 3, AC 4

DAY & NIGHT MODEL # PHD448000K000F1 PACKAGED ROOF MOUNTED HEAT PUMP
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46,000 BTUH HEATING, HSPF = 8.00
1600 CFM NOMINAL @ .2" S.P., WT. = 525 LBS
230v 1 Ph 60 CY., MAX. F.L.A. = 28.3 AMPS.
WITH FACTORY ROOF CURB, OUTSIDE AIR INTAKE W/ FILTER RACK

AC 5, AC 6, AC 7, AC 8, AC 9, AC 10, AC 11, AC 12, AC 13, AC 14

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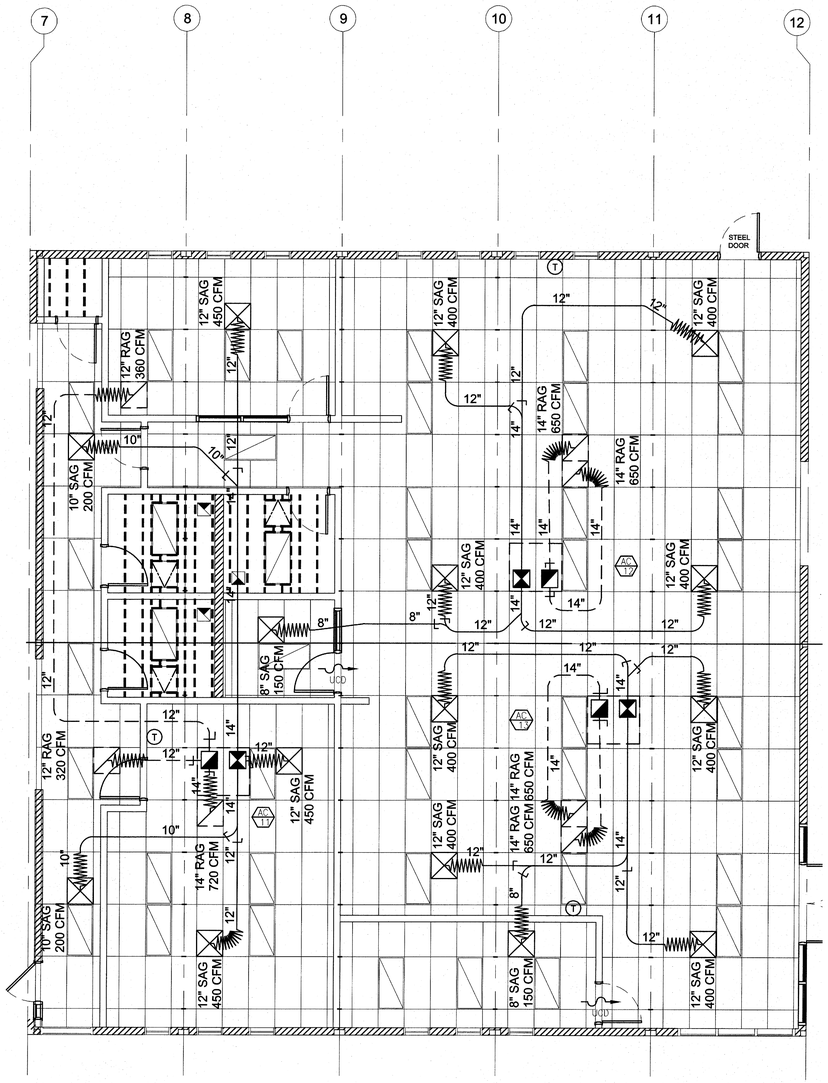

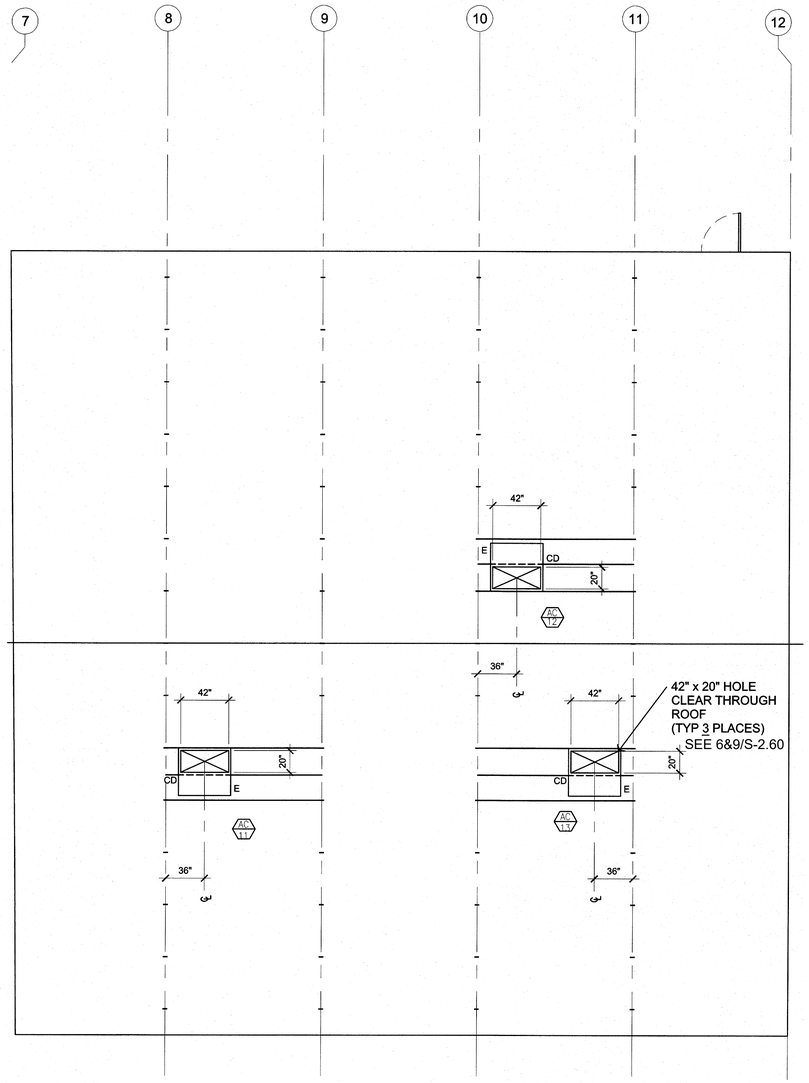

MECHANICAL PLAN — SCALE: 1/4" = 1'-0" — 1

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ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

MECHANICAL PLAN
60x60 LIBRARY

REGISTERED PROFESSIONAL ENGINEER — JOHN W STARKEY — 24758 — STRUCTURAL — STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS
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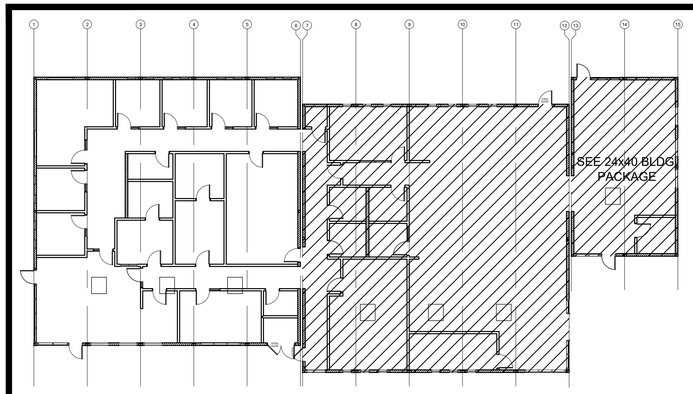


KEY PLAN — SCALE: 1/4" = 1' - 0" — A

ELECTRICAL LEGEND

ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS & SPECS

2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING
WATTAGE: 60 WATTS MAX.

2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING
WATTAGE: 60 WATTS MAX.
EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE EQUIPPED WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.

200A SINGLE PHASE, 42 SPACE ELECTRICAL PANEL STUBBED BELOW FLOOR w/3/4" CONDUIT TO ATTIC SPACE FOR FUTURE GROUNDING

+88" IDF SP — PROVIDE *SURGE PROTECTED* DUPLEX OUTLET FOR FUTURE **IDF** CABINET. LOCATE AS INDICATED ON FLOOR PLAN & MOUNTED @ 88" A.F.F. (U.N.O.)

DUPLEX (WALL MOUNTED) RECEPTACLE 15A - 125V - 3 WIRE. MOUNT AT +15" AFF U.O.N. TO THE BOTTOM OF THE OUTLET BOX

GFI — GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS (SEE ELECTRICAL PLAN FOR MOUNTING HEIGHTS)

WP — EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24 " AFF FOR A/C SERVICES (ONE RECEPTACLE FOR EVERY 2 UNITS)

ROOF — ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE

OS — CEILING MOUNTED OCCUPANCY SENSOR.
WATTSTOPPER #LMPC-100 OR EQUAL.

PC — CEILING MOUNTED PHOTOCELL, WATTSTOPPER #LMLS-500

WS-1 — SINGLE SWITCH WALL OCCUPANCY SENSOR.
WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM) LESS THAN 100 SQ FT W/ (1) CIRCUIT.

RC — LIGHTING MANAGEMENT SYSTEM ROOM CONTROLLER, INSTALLED ABOVE CEILING, LOCATION AND # OF LOADS/ZONES TO BE VERIFIED, WATTSTOPER # LMRC-2XX

$D — SINGLE BUTTON DIMMER SWITCH, AT +48" AFF. TO TOP OF OUTLET BOX, WATTSTOPPER #LMDM-101

$ — LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX

4SD J-BOX w/ 1" CONDUIT & PULL STRING TO ATTIC SPACE MOUNTED AT 18" AFF FOR FUTURE DATA (DEVICES TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS)

TV — DUAL GANG MUD RING ONLY MOUNTED AT 54" AFF WITH PULL STRING TO ATTIC SPACE THRU A 1 1/2" HOLE AT TOP PLATE FOR FUTURE TV (DEVICES TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS)

2 GANG FLOOR MNTD. J-BOX W/ (1) RECEPT & (1) PHONE/DATA, W/ PLASTIC COVER PLATES & CARPET RING, W/ 1" FLEX STUBBED BELOW FLOOR TO NEAREST WALL, UP TO THE ATTIC SPACE U.N.O. (NO BRAND SPECIFIED)

T — 4SD J-BOX w/ HVAC CONTROL WIRE TO HVAC UNIT (THERMOSTAT TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS)

EXIT — EXIT SIGN WITH 90 MIN. BATTERY BACK UP.

EXTERIOR LIGHT FIXTURE W/ PHOTOCELL MOUNTED AT +93" AFF ***RAB LIGHTING SLIM 18*** (SHIPPED LOOSE & INSTALLED BY OTHERS)

WH — HOT WIRED 4SD J-BOX FOR INSTA-HOT WATER HEATER

HD — DEDICATED 230V 2-POLE HOT WIRED J-BOX @ 36" AFF FOR FUTURE HAND DRYER (DEVICE SUPPLIED & INSTALLED ON SITE BY OTHERS)

H — 4SD J-BOX FOR EXTERIOR FIRE ALARM SPEAKER (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULL STRING

+80" — 4SD J-BOX w/ 3/4" CONDUIT & PULL STRING TO ATTIC SPACE MOUNTED AT 80" AFF FOR FIRE ALARM HORN/STROBE (DEVICES TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS)

4SD J-BOX FOR FIRE ALARM STROBE OR VOICE EVAC SPEAKER (DEVICE BY OTHERS). BOTTOM OF LENS SHALL BE BETWEEN 80" AND 96" AFF AND WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULL STRING

S — 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS

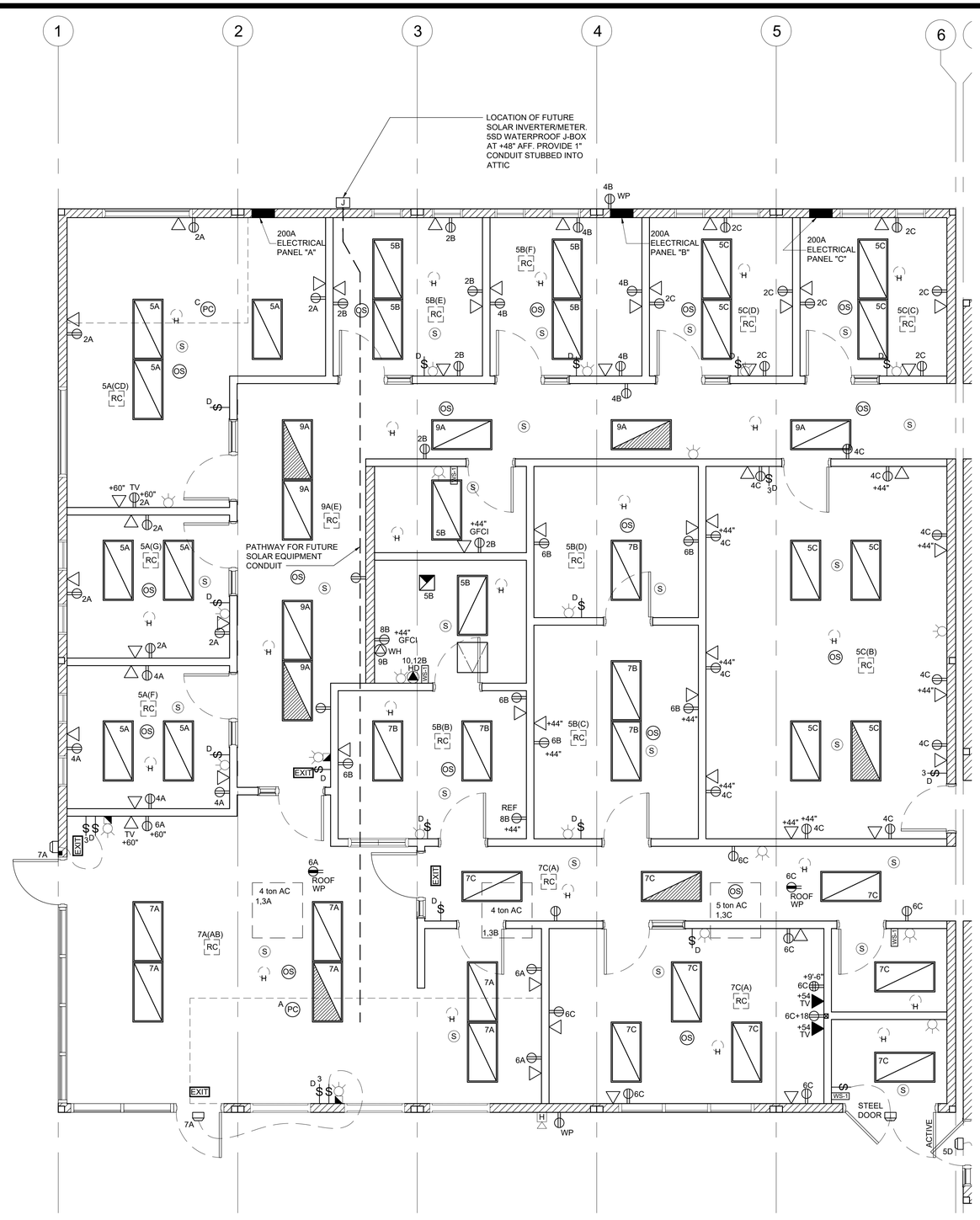
(H) — 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS

100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH

NOTE:
PROVIDE TIME DELAY HVAC SHUT DOWN DOOR SWITCHES

NOTE:
ALL LIGHT SWITCH & RECEPTACLE COVER PLATES ARE TO BE STAINLESS STEEL (DATA J-BOXES TO HAVE NO COVERS)

NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.



PANEL: A	PHASE:	VOLTS:	BUSS:	MAIN:	LOCATION:	FEED:	MOUNTING:
S/N:	SINGLE	120/208	200 AMP	200A	INTERIOR	BOTTOM	RECESSED

OBJECT DESCRIPTION	WAT PER	NO. OF	LCL	WATTS A	WATTS B	BRK	POLE	WIRE SIZE	NO	CKT A	CKT B	NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	LCL	NO OF	WAT PER	OBJECT DESCRIPTION
4 TON A/C	5428	1	x	5428		60	2	#6	1	X		2	#12	1	20	1440			8	180	RECEPTS
4 TON A/C	5428	/	x		5428	/	/	#6	3		X	4	#12	1	20		900		5	180	RECEPTS
LIGHTS/ FANS	136	12	x	1632		20	1	#12	5	X		6	#12	1	20	900			5	180	RECEPTS
LIGHTS/ FANS	136	12	x		1632	20	1	#12	7		X	8	#12	1	20		0				
LIGHTS/ FANS	136	12	x	1632		20	1	#12	9	X		10				0					
					0				41		X	42					0				
	LEG TOTALS			8692	7060											2340	900	LEG TOTALS			

LCL=3938+18992=22930
TOTAL WATTS=22930 — LEG BALANCE = 16.2% — TOTAL AMPS: 110.24

PANEL: B	PHASE:	VOLTS:	BUSS:	MAIN:	LOCATION:	FEED:	MOUNTING:
S/N:	SINGLE	120/208	200 AMP	200A	INTERIOR	BOTTOM	RECESSED

OBJECT DESCRIPTION	WAT PER	NO. OF	LCL	WATTS A	WATTS B	BRK	POLE	WIRE SIZE	NO	CKT A	CKT B	NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	LCL	NO OF	WAT PER	OBJECT DESCRIPTION
4 TON A/C	5428	1	x	5428		60	2	#6	1	X		2	#12	1	20	900			5	180	RECEPTS
4 TON A/C	5428	/	x		5428	/	/	#6	3		X	4	#12	1	20		900		5	180	RECEPTS
LIGHTS/ FANS	136	8	x	1088		20	1	#12	5	X		6	#12	1	20	1080			6	180	RECEPTS
LIGHTS/ FANS	136	5	x		680	20	1	#12	7		X	8	#12	1	20		1000		1	1000	DED. RECEPT
INSTA-HOT W/ H	1500	1	x	1500		30	1	#10	9	X		10	#10	2	30	2000			2	1000	HAND DRYER
					0				41		X	42	#10	/	30		1000		/	1000	HAND DRYER
	LEG TOTALS			8016	6108											3980	2900	LEG TOTALS			

LCL=3531+21004=24535
TOTAL WATTS=24535 — LEG BALANCE = 14.2% — TOTAL AMPS: 117.96

PANEL: C	PHASE:	VOLTS:	BUSS:	MAIN:	LOCATION:	FEED:	MOUNTING:
S/N:	SINGLE	120/208	200 AMP	200A	INTERIOR	BOTTOM	RECESSED

OBJECT DESCRIPTION	WAT PER	NO. OF	LCL	WATTS A	WATTS B	BRK	POLE	WIRE SIZE	NO	CKT A	CKT B	NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	LCL	NO OF	WAT PER	OBJECT DESCRIPTION
4 TON A/C	5428	1	x	5428		60	2	#6	1	X		2	#12	1	20	1440			8	180	RECEPTS
4 TON A/C	5428	/	x		5428	/	/	#6	3		X	4	#12	1	20		1980		11	180	RECEPTS
LIGHTS/ FANS	136	8	x	1088		20	1	#12	5	X		6	#12	1	20	1620			9	180	RECEPTS
LIGHTS/ FANS	136	8	x		1088	20	1	#12	7		X	8					0				
				0	0				9	X		10				0					
									41		X	42					0				
	LEG TOTALS			6516	6516											3060	1980	LEG TOTALS			

LCL=3258+18072=21330
TOTAL WATTS=21330 — LEG BALANCE = 6.0% — TOTAL AMPS: 102.55

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

ELECTRICAL PLAN
60x60 ADMIN

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD

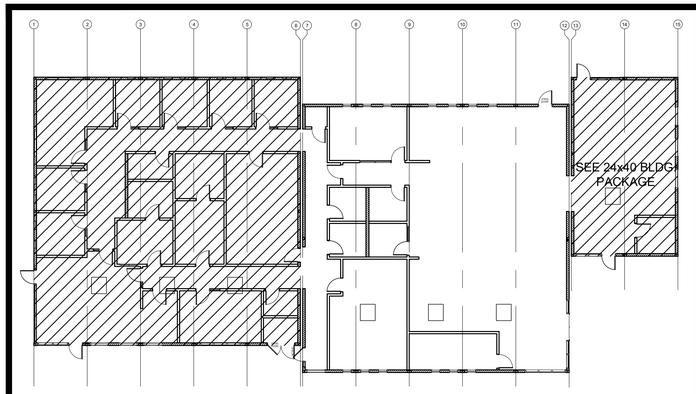
PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS
1
2
3
4
5
6
7
8

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 2-20-2020

SHEET NUMBER
E-1.01N

PHASE III



KEY PLAN — SCALE: 1/4" = 1' - 0" — A

ELECTRICAL LEGEND

ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS & SPECS

2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING
WATTAGE: 60 WATTS MAX.

2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING
WATTAGE: 60 WATTS MAX.
EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE EQUIPPED WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.

200A SINGLE PHASE, 42 SPACE ELECTRICAL PANEL STUBBED BELOW FLOOR w/3/4" CONDUIT TO ATTIC SPACE FOR FUTURE GROUNDING

+88" IDF SP — PROVIDE *SURGE PROTECTED* DUPLEX OUTLET FOR FUTURE **IDF** CABINET. LOCATE AS INDICATED ON FLOOR PLAN & MOUNTED @ 88" A.F.F. (U.N.O.)

DUPLEX (WALL MOUNTED) RECEPTACLE 15A - 125V - 3 WIRE. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF DEVICE

GFI — GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS (SEE ELECTRICAL PLAN FOR MOUNTING HEIGHTS)

WP — EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24 " AFF FOR A/C SERVICES (ONE RECEPTACLE FOR EVERY 2 UNITS)

ROOF — ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE

OS — CEILING MOUNTED OCCUPANCY SENSOR. WATTSTOPPER #LMPC-100 OR EQUAL.

PC — CEILING MOUNTED PHOTOCELL, WATTSTOPPER #LMLS-500

WS-1 — SINGLE SWITCH WALL OCCUPANCY SENSOR. WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM) LESS THAN 100 SQ FT W/ (1) CIRCUIT.

RC — LIGHTING MANAGEMENT SYSTEM ROOM CONTROLLER, INSTALLED ABOVE CEILING, LOCATION AND # OF LOADS/ZONES TO BE VERIFIED, WATTSTOPER # LMRC-2XX

$D — SINGLE BUTTON DIMMER SWITCH, AT +48" AFF. TO TOP OF OUTLET BOX, WATTSTOPPER #LMDM-101

$ — LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX

4SD J-BOX w/ 1" CONDUIT & PULL STRING TO ATTIC SPACE MOUNTED AT 18" AFF FOR FUTURE DATA (DEVICES TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS)

TV — DUAL GANG MUD RING ONLY MOUNTED AT 54" AFF WITH PULL STRING TO ATTIC SPACE THRU A 1 1/2" HOLE AT TOP PLATE FOR FUTURE TV (DEVICES TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS)

2 GANG FLOOR MNTD. J-BOX W/ (1) RECEPT & (1) PHONE/DATA, W/ PLASTIC COVER PLATES & CARPET RING, W/ 1" FLEX STUBBED BELOW FLOOR TO NEAREST WALL, UP TO THE ATTIC SPACE U.N.O. (NO BRAND SPECIFIED)

T — 4SD J-BOX w/ HVAC CONTROL WIRE TO HVAC UNIT (THERMOSTAT TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS)

EXIT — EXIT SIGN WITH 90 MIN. BATTERY BACK UP.

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HD — DEDICATED 230V 2-POLE HOT WIRED J-BOX @ 36" AFF FOR FUTURE HAND DRYER (DEVICE SUPPLIED & INSTALLED ON SITE BY OTHERS)

H — 4SD J-BOX FOR EXTERIOR FIRE ALARM SPEAKER (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULL STRING

+80" — 4SD J-BOX w/ 3/4" CONDUIT & PULL STRING TO ATTIC SPACE MOUNTED AT 80" AFF FOR FIRE ALARM HORN/STROBE (DEVICES TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS)

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S — 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS

H — 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS

100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH

NOTE:
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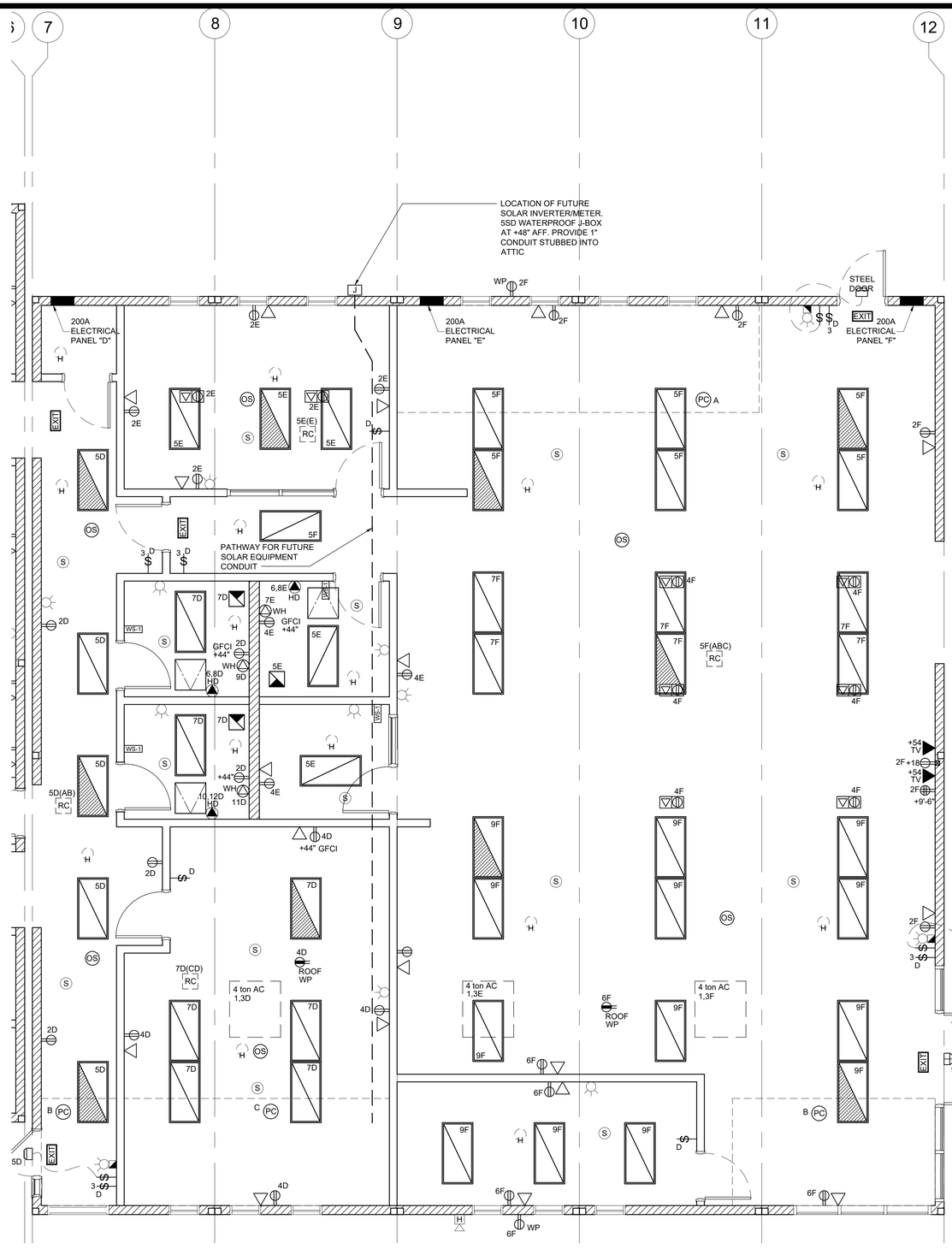
ALL LIGHT SWITCH & RECEPTACLE COVER PLATES ARE TO BE STAINLESS STEEL (DATA J-BOXES TO HAVE NO COVERS)

NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.



PANEL: D	PHASE:	VOLTS:	BUSS:	MAIN:	LOCATION:	FEED:	MOUNTING:
S/N:	SINGLE	120/208	200 AMP	200A	INTERIOR	BOTTOM	RECESSED

OBJECT DESCRIPTION	WAT PER	NO OF	LCL	WATTS A	WATTS B	BRK	POLE	WIRE SIZE	NO	A	B	CKT NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	LCL	NO OF	WAT PER	OBJECT DESCRIPTION
4 TON A/C	5428	1	x	5428		60	2	#6	1	X		2	#12	1	20	900			5	180	RECEPTS
4 TON A/C	5428	/	x		5428	/	/	#6	3		X	4	#12	1	20		1080		6	180	RECEPTS
LIGHTS/ FANS	136	5	x	680		20	1	#12	5	X		6	#10	2	30	2000			2	1000	HAND DRYER
LIGHTS/ FANS	136	9	x		1224	20	1	#12	7		X	8	#10	/	30		1000		/	1000	HAND DRYER
INSTA-HOT W/ H	1500	1	x	1500		30	1	#10	9	X		10	#10	2	30	2000			2	1000	HAND DRYER
INSTA-HOT W/ H	1500	1	x		1500	30	1	#10	41		X	42	#10	/	30		1000		/	1000	HAND DRYER
		LEG TOTALS		7608	8152											4900	3080	LEG TOTALS			

LCL=3940+23740=27680
TOTAL WATTS=27680 — LEG BALANCE = 5.4% — TOTAL AMPS: 133.08

PANEL: E	PHASE:	VOLTS:	BUSS:	MAIN:	LOCATION:	FEED:	MOUNTING:
S/N:	SINGLE	120/208	200 AMP	200A	INTERIOR	BOTTOM	RECESSED

OBJECT DESCRIPTION	WAT PER	NO OF	LCL	WATTS A	WATTS B	BRK	POLE	WIRE SIZE	NO	A	B	CKT NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	LCL	NO OF	WAT PER	OBJECT DESCRIPTION
4 TON A/C	5428	1	x	5428		60	2	#6	1	X		2	#12	1	20	1080			6	180	RECEPTS
4 TON A/C	5428	/	x		5428	/	/	#6	3		X	4	#12	1	20		900		5	180	RECEPTS
LIGHTS/ FANS	136	5	x	680		20	1	#12	5	X		6	#10	2	30	2000			2	1000	HAND DRYER
INSTA-HOT W/ H	1500	1	x		1500	30	1	#10	7		X	8	#10	/	30		1000		/	1000	HAND DRYER
				0					9	X		10				0					
					0				41		X	42					0				
		LEG TOTALS		6108	6928											3080	1900	LEG TOTALS			

LCL=3259+18016=21275
TOTAL WATTS=21275 — LEG BALANCE = 2.0% — TOTAL AMPS: 102.28

PANEL: F	PHASE:	VOLTS:	BUSS:	MAIN:	LOCATION:	FEED:	MOUNTING:
S/N:	SINGLE	120/208	200 AMP	200A	INTERIOR	BOTTOM	RECESSED

OBJECT DESCRIPTION	WAT PER	NO OF	LCL	WATTS A	WATTS B	BRK	POLE	WIRE SIZE	NO	A	B	CKT NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	LCL	NO OF	WAT PER	OBJECT DESCRIPTION
4 TON A/C	5428	1	x	5428		60	2	#6	1	X		2	#12	1	20	1440			8	180	RECEPTS
4 TON A/C	5428	/	x		5428	/	/	#6	3		X	4	#12	1	20		1080		6	180	RECEPTS
LIGHTS/ FANS	136	7	x	952		20	1	#12	5	X		6	#12	1	20	1080			6	180	RECEPTS
LIGHTS/ FANS	136	6	x		816	20	1	#12	7		X	8	#12	1	20		0				
LIGHTS/ FANS	136	13	x	1768		20	1	#12	9	X		10				0					
					0				11		X	TBD					0				
		LEG TOTALS		8148	6244											2520	1080	LEG TOTALS			

LCL=3598+17992=21590
TOTAL WATTS=21590 — LEG BALANCE = 18.6% — TOTAL AMPS: 103.80

ELECTRICAL PLAN — SCALE: 1/4" = 1' - 0" — 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

ELITE MODULAR

PROJECT NAME:

SHEET TITLE:

ELECTRICAL PLAN
60x60 LIBRARY

REGISTERED PROFESSIONAL ENGINEER — JOHN W STARTZEL — 24754 — STRUCTURAL — STATE OF CALIFORNIA

ARCHITECT OF RECORD

PROJECT SPECIFIC STATE AGENCY APPROVAL

REVISIONS
1
2
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PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 2-20-2020

SHEET NUMBER
E-1.02N

PHASE III

MODULAR CLASSROOM BUILDINGS

~~BUILDING SIZE: 24' X 60'~~

EXPANDABLE TO 72' X 60'

PC 04-116719

BY

SILVER CREEK INDUSTRIES, INC.

2830 BARRETT AVE, PERRIS, CALIFORNIA 92571

PHONE : (951) 943-5393 FAX : (951) 943-2211

GENERAL NOTES

1. FIRE ALARM IS NOT PART OF THIS APPROVAL
2. ALLOWABLE AREA IS BASED ON 10' SET BACK FROM IMAGINARY ASSUMED LINE PER 2016 CBC 705.3
3. THIS PC IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.
4. PC IS DESIGNED AS A SINGLE STORY MODULAR BUILDING
5. FOR SOILS TYPES / DESIGN BEARING STRENGTH, SEE STRUCTURAL SPECIFICATIONS
6. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
7. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USES
8. EXTERIOR WALL OPENINGS TO COMPLY W/ 705.8, 2016 CBC.
9. EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED WHERE REQUIRED BY SECTIONS 705.2 & 1406.
10. SEE SHEETS A-0.7 FOR REQUIRED BUILDING ENVELOPE ASSEMBLIES AND HVAC SYSTEM.
11. PURSUANT TO D.S.A. APPROVAL ALL PRODUCTS CAN BE SUBSTITUTED BY AN "EQUAL"
12. BUILDING(S) TO BE LOCATED IN ANY FIRE HAZARD SEVERITY ZONE OR ANY WILDLAND - URBAN INTERFACE FIRE AREA SHALL COMPLY WITH CBC CHAPTER 7A AND SHALL NOT UTILIZE THE TUBULAR SKYLIGHT OPTION INCLUDED WITHIN THIS PC.
13. THIS PC IS NOT DESIGNED FOR USE WITHIN A 65 CNEL NOISE CONTOUR AND THIS PC DOES NOT COMPLY WITH CAL GREEN SECTION 5.507.4.1. IF THIS PC BUILDING IS SITE ADAPTED TO A SITE THAT MEETS THE REQUIREMENTS OF CAL GREEN SECTION 5.507.4.1. THE SITE SPECIFIC DRAWING PACKAGE MUST INCLUDE COMPLIANT ASSEMBLIES FOR THE WALLS, ROOF, WINDOWS & DOORS.
14. ALL SPACES WITH A DESIGN FLOOR LIVE LOAD GREATER THAN 50 PSF SHALL HAVE SIGN (BY OTHERS) POSTED ADJACENT TO THE MAIN ENTRY DOOR WHICH INDICATES THE MAXIMUM ALLOWABLE LIVE LOAD.

APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIF AMENDED)	2016 EDITION
NFPA 72	NAT. FIRE ALARM CODE (CALIF. AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION

APPLICABLE CODES

LIST OF 2016 CALIFORNIA CODE OF REGULATIONS

2016 BUILDING ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
2016 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2, PART 2, TITLE 24 C.C.R.
(2015 INTERNATIONAL BUILDING CODE VOLUMES 1-2 & 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2014 NATIONAL ELECTRICAL CODE & 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
(2015 IAPMO UNIFORM MECHANICAL CODE & 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2015 IAPMO UNIFORM PLUMBING CODE & 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2015 INTERNATIONAL FIRE CODE & 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
NFPA 13 AUTOMATIC SPRINKLER SYSTEMS 2013 EDITION (WHERE APPLICABLE)
NFPA 72 NATIONAL FIRE ALARM CODE 2013 EDITION (WHERE APPLICABLE)
(NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")

BUILDING DATA

NUMBER OF STORIES:	1 - STORY	
OCCUPANCY:	E or B	
TYPE OF CONSTRUCTION:	V-B	
FLOOR LIVE LOAD:	☐ 50 PSF	☒ 50+15 PSF PARTITION LOAD
	☐ 100 PSF	☒ 150 PSF (@ LIBRARY, SEE FLOOR PLAN)
ROOF LIVE LOAD:	20 PSF	
FLOOR DEAD LOAD:	☐ WOOD FLOOR - 11 PSF	☒ CONCRETE FLOOR - 33 PSF
ROOF DEAD LOAD:	13.5 PSF (INCLUDING SPRINKLER LOAD AND 1 PSF SOLAR LOAD)	
RAMP LIVE LOAD:	100 PSF	
BUILDING AREA:	☐ 24'x60' BLDG - 1440 / 1620 (SF)	☒ 60'x60' BLDG - 3600 / 4050 (SF)*
	☐ 36'x60' BLDG - 2160 / 2430 (SF)	☐ 72'x60' BLDG - 4320 / 4860 (SF)*
ALLOWABLE AREA: 9,000 S.F. (ALL w/o OVERHANGS)	☐ 48'x60' BLDG - 2880 / 3240 (SF)	
FOUNDATION:	☐ WOOD	☒ CONCRETE
CEC CLIMATE ZONE:	1-16	

* SEE S-0.1 FOR GEOTECHNICAL REPORT REQUIREMENT

ALLOWABLE SOIL PRESSURE

DL (WOOD FOOTING)	1,000 psf
DL + LL (WOOD FOOTING - 1,000 PSF MAX)	1,000 psf
DL + LL + SNOW (WOOD FOOTING)	1,000 psf
DL + LL + SEISMIC (WOOD FOOTING)	1,000 psf
DL + LL (CONCRETE FOOTING)	1,500 psf
DL + LL + SEISMIC (CONCRETE FOOTING)	1,500 psf

ROOF SNOW LOAD

GROUND SNOW LOAD, P_g FROM COUNTY	0
ROOF SNOW LOAD: ☑ FLAT P_f OR ☐ LOW-SLOW, P_m OR ☐ SLOPED, P_s	
SNOW EXPOSURE FACTOR C_s	-
SNOW IMPORTANCE FACTOR I_s	1.0
THERMAL FACTOR C_t	-

FLOOD DESIGN

FLOOD HAZARD AREA YES ☐ NO ☑

WIND DESIGN

BASIC WIND SPEED (3 SECOND GUST) V_{ult}	129
RISK CATEGORY	II
WIND EXPOSURE CATEGORY	C
TOPOGRAPHIC FACTOR K_{zt}	1

SEISMIC DESIGN

LATERAL FORCE-RESISTING SYSTEM	OMF
ANALYSIS PROCEDURE	EQIV. LATERAL FORCE
SEISMIC DESIGN CATAGORY (SDC)	E
SEISMIC IMPORTANCE FACTOR I_E	1.0
SEISMIC RESPONSE COEFFICIENT C_S	0.380
RESPONSE MODIFICATION COEFFICIENT R	3.5
SITE CLASS	D
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD S_S USED TO DETERMINE PARAMETERS & NON-STRUCTURAL COMPONENT ANCHOR (NO CAP)	2.85
SHORT PERIOD SITE COEFFICIENT F_a	1.0
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD S_{DS} USED TO DETERMINE C_s (WITH CAP PER CBC, SECTION 1616A 1.12)	1.33
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD S_{XS} USED TO DETERMINE OTHER PARAMETERS & NON-STRUCTURAL COMPONENT ANCHOR (NO CAP)	1.90
MAPPED SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD S_1	2.0
LONG PERIOD SITE COEFFICIENT, F_v	1.5
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD S_{D1}	2.0
HORIZONTAL OR VERTICAL IRREGULARITY TYPES	NONE

SHEET INDEX

SHT NO.	ARCHITECTURAL
A-0	COVER SHEET
A-0A	T & I FORMS
A-0.0	BUILDING OPTIONS SCHEDULE
A-0.1	SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE
A-0.2	SCHEDULES
~~A-0.3~~	~~TYPICAL KEY PLANS - 24' TO 72' x 60'~~
~~A-0.5A~~	~~ENERGY CALC'S - PRF FORMS - ZONE 14 WORST CASE - 24'x60'~~
~~A-0.5B~~	~~ENERGY CALC'S - PRF FORMS - ZONE 15 WORST CASE - 24'x60'~~
~~A-0.5C~~	~~ENERGY CALC'S - PRF FORMS - ZONE 16 WORST CASE - 24'x60'~~
A-0.5D	ENERGY CALC'S - PRF FORMS - ZONE 14 WORST CASE - 72'x60'
A-0.5E	ENERGY CALC'S - PRF FORMS - ZONE 15 WORST CASE - 72'x60'
A-0.5F	ENERGY CALC'S - PRF FORMS - ZONE 16 WORST CASE - 72'x60'
A-0.6A	ENERGY CALC'S - CERTICIFICATE OF COMPLIANCE FORMS
A-0.6B	ENERGY CALC'S - CERTICIFICATE OF COMPLIANCE FORMS
A-0.6C	SINGLE MODULE TOILET BUILDING COMPLIANCE FORMS
A-0.7	ENERGY CALC'S - VALUES BY ZONE & CALGREEN NOTES
~~A-1.01~~	~~FLOOR PLAN - 24' x 60' (OPTION A-1 OR OPTION A-2)~~
~~A-1.02~~	~~FLOOR PLAN - 24' x 60' (OPTION A-3)~~
A-1.03	FLOOR PLAN - 36' TO 72' x 60'
~~A-1.04~~	~~OPTIONAL RR END MOD. - FLOOR PLAN, RCP & ELECTRICAL PLAN~~
A-1.05	OPTIONAL RR END MOD. - PLUMBING PLANS & WATER SUPPLY ISOMETRIC
~~A-1.06~~	~~OPTIONAL RR END MOD. - WASTE ISOMETRICS - WALL / FLOOR MOUNTED~~
~~A-1.07~~	~~OPTIONAL RR END MOD. - INT. / EXT. ELEVATIONS & FIXTURE LEGEND~~
~~A-2.01~~	~~REFLECTED CEILING PLAN - 24' x 60' (OPTION A-1 OR OPTION A-2)~~
~~A-2.02~~	~~REFLECTED CEILING PLAN - 24' x 60' (OPTION A-3)~~
A-2.03	REFLECTED CEILING PLAN - 36' TO 72' x 60'
A-2.20	CEILING DETAILS - T-GRID
A-2.21	CEILING DETAILS - HARD LID
~~A-3.01~~	~~ROOF PLAN - 0.016" METAL DECK - DUAL SLOPE - 24' x 60'~~
~~A-3.03~~	~~ROOF PLAN - 0.016" METAL DECK - DUAL SLOPE - 36' TO 72' x 60'~~
~~A-3.11~~	~~ROOF PLAN - 0.036" METAL DECK - DUAL SLOPE - 24' x 60'~~
~~A-3.13~~	~~ROOF PLAN - 0.036" METAL DECK - DUAL SLOPE - 36' TO 72' x 60'~~
~~A-3.31~~	~~ROOF PLAN - PARAPET - DUAL SLOPE - 24' x 60'~~
A-3.33	ROOF PLAN - PARAPET - DUAL SLOPE - 36' TO 72' x 60'
~~A-3.41~~	~~ROOF PLAN - TPO - DUAL SLOPE - 24' x 60'~~
~~A-3.43~~	~~ROOF PLAN - TPO - DUAL SLOPE - 36' TO 72' x 60'~~
~~A-3.58~~	~~ROOF DETAILS - 0.016" METAL DECK~~
~~A-3.68~~	~~ROOF DETAILS - 0.036" METAL DECK~~
~~A-3.61~~	~~ROOF DETAILS - 0.036" METAL DECK~~
A-3.80	ROOF DETAILS - PARAPET
A-3.90	ROOF DETAILS - TPO
~~A-4.01~~	~~EXTERIOR ELEVATIONS - DUAL SLOPE - 24' x 60' (OPT A-1 OR OPT A-2)~~
~~A-4.02~~	~~EXTERIOR ELEVATIONS - DUAL SLOPE - 24' x 60' (OPTION A-3)~~
~~A-4.03~~	~~EXTERIOR ELEVATIONS - DUAL SLOPE - 36' TO 72' x 60'~~
~~A-4.21~~	~~EXTERIOR ELEVATIONS - DUAL SLOPE - 24' x 60' (OPT A-1 OR OPT A-2) (PARAPET)~~
~~A-4.22~~	~~EXTERIOR ELEVATIONS - DUAL SLOPE - 24' x 60' (OPTION A-3) (PARAPET)~~
A-4.23	EXTERIOR ELEVATIONS - DUAL SLOPE - 36' TO 72' x 60' (PARAPET)
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~~A-5.04~~	~~CROSS SECTION - DUAL SLOPE - 0.036" ROOF DECK~~
A-5.05	CROSS SECTION
~~A-5.50~~	~~ARCHITECTURAL DETAILS - WOOD STUD - WOOD SIDING~~
A-5.51	ARCHITECTURAL DETAILS - WOOD STUD - PLASTER
~~A-5.52~~	~~ARCHITECTURAL DETAILS - WOOD STUD - WOOD SIDING - 1 HOUR RATED~~
~~A-5.53~~	~~ARCHITECTURAL DETAILS - WOOD STUD - PLASTER - 1 HOUR RATED~~
~~A-5.60~~	~~ARCHITECTURAL DETAILS - STEEL STUD - WOOD SIDING~~
~~A-5.61~~	~~ARCHITECTURAL DETAILS - STEEL STUD - PLASTER~~
~~A-5.62~~	~~ARCHITECTURAL DETAILS - STEEL STUD - WOOD SIDING - 1 HOUR RATED~~
~~A-5.63~~	~~ARCHITECTURAL DETAILS - STEEL STUD - PLASTER - 1 HOUR RATED~~
~~A-5.64~~	~~ARCHITECTURAL DETAILS - 1 HOUR RATED OPTIONS~~
A-5.70	ARCHITECTURAL DETAILS - FLOOR
A-5.80	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
A-5.81	ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS
~~A-6.01~~	~~INTERIOR ELEVATIONS - 24' x 60' - (OPTION A-1)~~
~~A-6.02~~	~~INTERIOR ELEVATIONS - 24' x 60' - (OPTION A-2)~~
~~A-6.03~~	~~INTERIOR ELEVATIONS - 24' x 60' - (OPTION A-3)~~
A-6.04	INTERIOR ELEVATIONS - 36' TO 72' x 60'

SHT NO.	FOUNDATION
~~F-0.01~~	~~WOOD FOUNDATION PLAN - 24' x 60' - (50 PSF)~~
~~F-0.02~~	~~WOOD FOUNDATION PLAN - 24' x 60' - (50+15 PSF)~~
~~F-0.03~~	~~WOOD FOUNDATION PLAN - 24' x 60' - (100 PSF)~~
~~F-0.04~~	~~WOOD FOUNDATION PLAN - 24' x 60' - (150 PSF)~~
~~F-0.11~~	~~WOOD FOUNDATION PLAN - 36' x 60' - (50 PSF)~~
~~F-0.12~~	~~WOOD FOUNDATION PLAN - 36' x 60' - (50+15 PSF)~~
~~F-0.13~~	~~WOOD FOUNDATION PLAN - 36' x 60' - (100 PSF)~~
~~F-0.14~~	~~WOOD FOUNDATION PLAN - 36' x 60' - (150 PSF)~~
~~F-0.50~~	~~FOUNDATION DETAILS - WOOD FOUNDATION~~
~~F-1.01~~	~~CONCRETE FOUNDATION PLAN - ABOVE GRADE - WOOD FLOOR~~
~~F-1.11~~	~~CONCRETE FOUNDATION PLAN - ABOVE GRADE - CONCRETE FLOOR~~
~~F-1.50~~	~~CONCRETE FOUNDATION DETAILS - ABOVE GRADE~~
~~F-2.01~~	~~CONCRETE FOUNDATION PLAN - BELOW GRADE - WOOD FLOOR~~
F-2.11	CONCRETE FOUNDATION PLAN - BELOW GRADE - CONCRETE FLOOR
F-2.50	CONCRETE FOUNDATION DETAILS - BELOW GRADE
F-2.51	FOUNDATION DETAILS - CONCRETE

SHT NO.	STRUCTURAL
S-0.1	STRUCTURAL SPECIFICATIONS
~~S-1.01~~	~~FLOOR FRAMING PLAN - WOOD FLOOR~~
S-1.11	FLOOR FRAMING PLAN - CONCRETE FLOOR
~~S-1.50~~	~~FLOOR FRAMING DETAILS - WOOD FLOOR~~
S-1.60	FLOOR FRAMING DETAILS - CONCRETE FLOOR
~~S-2.11~~	~~ROOF FRAMING PLAN - 0.016", OR TPO ROOF - DUAL SLOPE~~
~~S-2.12~~	~~ROOF FRAMING PLAN - 0.036" - DUAL SLOPE~~
S-2.13	ROOF FRAMING PLAN - PARAPET -DUAL SLOPE
S-2.51	ROOF FRAMING DETAILS - DUAL SLOPE
S-2.60	ROOF FRAMING DETAILS
S-2.70	ROOF FRAMING DETAILS - PARAPET
~~S-2.90~~	~~ROOF FRAMING DETAILS - TRUSS~~
S-3.02	BUILDING SECTION - DUAL SLOPE ROOF
~~S-3.04~~	~~BUILDING SECTION - 036 DUAL SLOPE ROOF~~
S-5.00	WALL FRAMING ELEVATIONS - WOOD STUDS
S-5.10	WALL FRAMING DETAILS - WOOD STUDS
S-5.11	WALL FRAMING DETAILS - WOOD STUDS
~~S-5.20~~	~~WALL FRAMING ELEVATIONS - STEEL STUDS~~
~~S-5.30~~	~~WALL FRAMING DETAILS - STEEL STUDS~~
~~S-5.31~~	~~WALL FRAMING DETAILS - STEEL STUDS~~

SHT NO.	PLUMBING
P-1.01	PLUMBING DETAILS AND SCHEDULE

SHT NO.	MECHANICAL
M-0.1	MECHANICAL NOTES, SCHEDULES, AND DETAILS
~~M-1.01~~	~~MECHANICAL PLAN - WALL MOUNT - 24' x 60' (OPTION A-1 OR OPTION A-2)~~
~~M-1.02~~	~~MECHANICAL PLAN - WALL MOUNT - 24' x 60' (OPTION A-3)~~
~~M-1.03~~	~~MECHANICAL PLAN - WALL MOUNT - 36' TO 72' x 60'~~
~~M-2.01~~	~~MECHANICAL PLAN - ROOF MOUNT - 24' x 60' (OPTION A-1 OR OPTION A-2)~~
~~M-2.02~~	~~MECHANICAL ROOF PLAN - ROOF MOUNT - 24' x 60'~~
~~M-3.01~~	~~MECHANICAL PLAN - ROOF MOUNT - 24' x 60' (OPTION A-3)~~
M-4.01	MECHANICAL PLAN - ROOF MOUNT - 36' TO 72' x 60'
M-4.02	MECHANICAL ROOF PLAN - ROOF MOUNT - 36' TO 72' x 60'

SHT NO.	ELECTRICAL
~~E-1.01~~	~~ELECTRICAL PLAN - 24' x 60' (OPTION A-1)~~
~~E-1.02~~	~~ELECTRICAL PLAN - 24' x 60' (OPTION A-2)~~
~~E-1.03~~	~~ELECTRICAL PLAN - 24' x 60' (OPTION A-3)~~
E-1.04	ELECTRICAL PLAN - 36' TO 72' x 60'

SHT NO.	RAMP
~~R-1.01~~	~~STANDARD RAMP PLAN~~
~~R-1.02~~	~~OFFSET RAMP PLAN~~
~~R-1.03~~	~~RAMP LANDING~~
~~R-1.04~~	~~STANDARD LANDING WITH STEPS~~
~~R-1.05~~	~~SWITCHBACK RAMP PLAN~~
~~R-2.01~~	~~RAMP DETAILS~~

SHT NO.	RELOCATABLE SHEETS
~~REL-101~~	~~BUILDING RELOCATION DETAILS~~
~~REL-102~~	~~BUILDING RELOCATION DETAILS~~

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CRE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

COVER SHEET

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24075
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS

1	
2	
3	
4	
5	
6	
7	
8	

SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 8-10-18

P.C. SHEET NUMBER

A-0

PHASE III

BUILDING OPTIONS SCHEDULE

PLUMBING	SHEET NUMBER
☒ PLUMBING DETAILS AND SCHEDULE:	P-1.01

MECHANICAL	SHEET NUMBER
MECHANICAL NOTES, SCHEDULES, AND DETAILS:	M-0.1
MECHANICAL PLAN: ☐ WALL MOUNT - (OPTION A-1 OR OPTION A-2)	M-1.01
☐ WALL MOUNT - (OPTION A-3)	M-1.02
☐ WALL MOUNT - 36' TO 72' x 60'	M-1.03
☐ ROOF MOUNT (OPTION A-1 OR OPTION A-2)	M-2.01
☐ MECHANICAL ROOF PLAN - ROOF MOUNT - 24' x 60'	M-2.02
☐ ROOF MOUNT (OPTION A-3)	M-3.01
☒ ROOF MOUNT - 36' TO 72' x 60'	M-4.01
☒ MECHANICAL ROOF PLAN - ROOF MOUNT - 36' TO 72' x 60'	M-4.02

ELECTRICAL	SHEET NUMBER
ELECTRICAL PLAN: ☐ ELECTRICAL PLAN - (OPTION A-1)	E-1.01
☐ ELECTRICAL PLAN - (OPTION A-2)	E-1.02
☐ ELECTRICAL PLAN - (OPTION A-3)	E-1.03
☒ ELECTRICAL PLAN - 36' TO 72' x 60'	E-1.04

RAMP	SHEET NUMBER
RAMP PLANS: ☐ STANDARD RAMP PLAN	R-1.01
☐ OFFSET RAMP PLAN	R-1.02
☐ RAMP LANDING	R-1.03
☐ STANDARD LANDING WITH STEPS	R-1.04
☐ SWITCHBACK RAMP PLAN	R-1.05
☐ RAMP DETAILS	R-2.01
☐ CONCRETE RAMP	R-3.01

BUILDING RELOCATION DETAILS	SHEET NUMBER
☐ BUILDING RELOCATION DETAILS	REL-101
☐ BUILDING RELOCATION DETAILS	REL-102

ARCHITECTURAL DETAILS			SHEET NUMBER
WALL DETAILS:	☒ WOOD STUDS	☐ EXTERIOR WOOD SIDING	A-5.50
		☒ EXTERIOR PLASTER FINISH	A-5.51
		☐ EXTERIOR WOOD SIDING - 1 HOUR RATED	A-5.52
		☐ EXTERIOR PLASTER FINISH - 1 HOUR RATED	A-5.53
	☐ STEEL STUDS	☐ EXTERIOR WOOD SIDING	A-5.60
		☐ EXTERIOR PLASTER FINISH	A-5.61
		☐ EXTERIOR WOOD SIDING - 1 HOUR RATED	A-5.62
		☐ EXTERIOR PLASTER FINISH - 1 HOUR RATED	A-5.63
☐ 1-HOUR RATED OPTIONS			A-5.64
FLOOR DETAILS:			A-5.70

MISCELLANEOUS DETAILS	SHEET NUMBER
MISCELLANEOUS: ☒ CASEWORK, TV, AND PROJECTION SCREEN DETAILS	A-5.80
☒ WATER HEATER, DRINKING FOUNTAIN, AND FOLDING WALL DETAILS	A-5.81

INTERIOR ELEVATIONS	SHEET NUMBER
INTERIOR ELEVATIONS: INTERIOR ELEVATION - (OPTION A-1)	A-6.01
INTERIOR ELEVATION - (OPTION A-2)	A-6.02
INTERIOR ELEVATION - (OPTION A-3)	A-6.03
INTERIOR ELEVATION - 36' TO 72' x 60'	A-6.04

FOUNDATIONS		SHEET NUMBER
☐ WOOD FOUNDATION PLAN	☐ 24' x 60' (50 PSF)	F-0.01
	☐ 24' x 60' (50+15 PSF)	F-0.02
	☐ 24' x 60' (100 PSF)	F-0.03
	☐ 24' x 60' (150 PSF)	F-0.04
	☐ 36' x 60' (50 PSF)	F-0.11
	☐ 36' x 60' (50+15 PSF)	F-0.12
	☐ 36' x 60' (100 PSF)	F-0.13
	☐ 36' x 60' (150 PSF)	F-0.14
☐ WOOD FOUNDATION DETAILS:		F-0.50
☐ CONCRETE FOUNDATION PLAN - ABOVE GRADE	☐ WOOD FLOOR - (50, 50+15, 100, OR 150PSF)	F-1.01
	☐ CONCRETE FLOOR - (50, 50+15, 100, OR 150PSF)	F-1.11
☐ CONCRETE FOUNDATION DETAILS - ABOVE GRADE:		F-1.50
☒ CONCRETE FOUNDATION PLAN - BELOW GRADE	☐ WOOD FLOOR - (50, 50+15, 100, OR 150PSF)	F-2.01
	☒ CONCRETE FLOOR - (50, 50+15, 100, OR 150PSF)	F-2.11
☒ CONCRETE FOUNDATION DETAILS - BELOW GRADE:		F-2.50
☒ FOUNDATION DETAILS - CONCRETE		F-2.51

GENERAL STRUCTURAL SHEETS	SHEET NUMBER
STRUCTURAL SPECS:	S-0.1

FLOOR FRAMING PLANS		SHEET NUMBER
FLOOR FRAMING:	☐ WOOD FLOOR	S-1.01
	☒ CONCRETE FLOOR	S-1.11
FLOOR FRAMING DETAILS:	☐ WOOD FLOOR	S-1.50
	☒ CONCRETE FLOOR	S-1.60

ROOF FRAMING PLANS		SHEET NUMBER
ROOF FRAMING:	☐ 0.018", OR TPO - DUAL SLOPE	S-2.11
	☐ 0.030" - DUAL SLOPE	S-2.12
	☒ PARAPET - DUAL SLOPE	S-2.13
ROOF FRAMING DETAILS:		S-2.51, S-2.60
ROOF FRAMING DETAILS:	☒ PARAPET - DETAILS	S-2.70
ROOF TRUSS:		S-2.90

BUILDING SECTION		SHEET NUMBER
BUILDING SECTION:	☒ DUAL SLOPE	S-3.02
	☐ 0.030" DUAL SLOPE	S-3.04

WALL FRAMING		SHEET NUMBER
FRAMING ELEVATIONS:	☒ WOOD STUDS	S-5.00
	☐ STEEL STUDS	S-5.20
FRAMING DETAILS:	☒ WOOD STUDS	S-5.10
	☒ WOOD STUDS	S-5.11
	☐ STEEL STUDS	S-5.30
	☐ STEEL STUDS	S-5.31

GENERAL ARCHITECTURAL SHEETS	SHEET NUMBER
COVER SHEET:	A-0
T & I FORMS	A-0A
BUILDING OPTIONS SCHEDULE SHEET:	A-0.0
SYMBOLS, LEGEND, ABBREVIATION, ADA SIGNAGE SHEET:	A-0.1
SCHEDULE SHEET:	A-0.2
KEY PLAN: 24' x 60' TO 72' x 60'	A-0.3
TITLE 24 - ENERGY CALCS	A-0.5A-C
TITLE 24 - ENERGY CALCS	A-0.6(A-B)
DESIGN ENERGY VALUES BY ZONE AND CALGREEN REQUIREMENTS	A-0.7

FLOOR PLANS		SHEET NUMBER
FLOOR PLANS:	☐ FLOOR PLAN - (OPTION A-1 OR OPTION A-2)	A-1.01
	☐ FLOOR PLAN - (OPTION A-3)	A-1.02
	☒ FLOOR PLAN - 36' TO 72' x 60'	A-1.03
☐ OPTIONAL RESTROOM END MODULE PLANS:	OPTIONAL RR END MOD. - FLOOR PLAN, RCP & ELECTRICAL PLAN	A-1.04
	OPTIONAL RR END MOD. - PLUMBING PLANS & WATER SUPPLY ISO.	A-1.05
	OPTIONAL RR END MOD. - WASTE ISOMETRICS - WALL / FLOOR MTD.	A-1.06
	OPTIONAL RR END MOD. - INT. / EXT. ELEVATIONS & FIXTURE LEGEND	A-1.07

CEILING		SHEET NUMBER
REFLECTED CEILING PLANS:	☐ REFLECTED CEILING PLAN - (OPTION A-1 OR OPTION A-2)	A-2.01
	☐ REFLECTED CEILING PLAN - (OPTION A-3)	A-2.02
	☒ REFLECTED CEILING PLAN - 36' TO 72' x 60'	A-2.03
CEILING DETAILS:	T-GRID	A-2.20
	☒ HARD LID	A-2.21

ROOF PLAN		SHEET NUMBER
ROOF PLANS:	☐ 0.018" ROOF - METAL DECK - DUAL SLOPE 24' x 60'	A-3.01
	☐ 0.018" ROOF - METAL DECK - DUAL SLOPE 36' TO 72' x 60'	A-3.03
	☐ 0.030" ROOF - METAL DECK - DUAL SLOPE 24' x 60'	A-3.11
	☐ 0.030" ROOF - METAL DECK - DUAL SLOPE 36' TO 72' x 60'	A-3.13
	☐ PARAPET - DUAL SLOPE 24' x 60'	A-3.31
	☒ PARAPET - DUAL SLOPE 36' TO 72' x 60'	A-3.33
	☐ TPO - DUAL SLOPE 24' x 60'	A-3.41
	☐ TPO - DUAL SLOPE 36' TO 72' x 60'	A-3.43
ROOF DETAILS:	☐ 0.018" ROOF - METAL DECK	A-3.50
	☐ 0.030" ROOF - METAL DECK	A-3.60
	☐ 0.030" ROOF - METAL DECK	A-3.61
	☒ PARAPET	A-3.80
	☒ TPO	A-3.90

EXTERIOR ELEVATION		SHEET NUMBER
EXTERIOR ELEVATIONS:	☐ EXTERIOR ELEVATIONS - (OPTION A-1 OR OPTION A-3)	A-4.01
	☐ EXTERIOR ELEVATIONS - (OPTION A-2)	A-4.02
	☐ EXTERIOR ELEVATIONS - 36' TO 72' x 60'	A-4.03
	☐ EXTERIOR ELEVATIONS - PARAPET - (OPTION A-1 OR OPTION A-3)	A-4.21
	☐ EXTERIOR ELEVATIONS - PARAPET - (OPTION A-2)	A-4.22
	☒ EXTERIOR ELEVATIONS - PARAPET - 36' TO 72' x 60'	A-4.23

CROSS SECTIONS		SHEET NUMBER
CROSS SECTIONS:	☒ DUAL SLOPE	A-5.02
	☐ DUAL SLOPE - 0.030" ROOF DECK	A-5.04
	CROSS SECTION	A-5.05

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

BUILDING OPTIONS SCHEDULE

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS
1
2
3
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SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 8-10-18

P.C. SHEET NUMBER
A-0.0

PHASE III

REFLECTED CEILING NOTES

1. CEILING SYSTEM GENERAL NOTES:

1.01 Ceiling system components shall comply with ASTM C635-07 and Section 5.1 of ASTM E580-10a.

1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635-08.

1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:

Manufacturer's Name ARMSTRONG ,
Product Evaluation Report Type and Number ICC ESR-1308 .
Manufacturer's Model Number - main runner 7301 .
Manufacturer's catalog number - cross runner XL7328 .

1.04 Seismic Wall Clip:

Manufacturer's Model BERC-2 .

1.05 Ceiling panels shall not support any light fixtures, air terminals or devices.

1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide ¾" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide ¾" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip.

2. MATERIALS:

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641-09a. Wire shall be #12 gage (0.106" diameter) with soft temper and minimum tensile strength = 70 ksi.

2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653-11, or other equivalent sheet steel listed in Section A2.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members 2007, including supplement 2 dated 2010 (AISI S100-07/S2-10). Material 43 mil (18 gage) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gage) and heavier shall have a minimum yield strength of 50 ksi.

2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES:

3.01 Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc.

3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to: piping, ductwork, conduit and equipment.

3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.

3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.

3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire. (e.g. bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.)

4. FASTENERS AND WELDING:

4.01 Sheet metal screws shall comply with ASTM C1513-10, ASME B18.6.4-89 (R2005). Penetration of screws through joined material shall not be less than three exposed threads.

4.02 Expansion anchors shall be: NOT APPLICABLE

4.03 Power-Actuated Fasteners shall be: NOT APPLICABLE

4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member.

4.05 Power-actuated fasteners in concrete are not permitted for bracing wires.

4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post - installed anchor.

4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING: All field testing must be performed in the presence of the project inspector.

5.01 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power actuated fasteners in concrete shall be field tested for 200 lbs. in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1913A.7.

5.02 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1913A.7.

6. LIGHT FIXTURES:

6.01 All light fixtures shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the fixture. A minimum of two screws or approved fasteners are required at each light fixture, per ASTM E580, Section 5.3.1.

6.02 Surface-mounted light fixtures shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gage. Rotational spring catches do not comply. A #12 gage slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when light fixtures are eight (8) feet or longer or exceed 56 lb. Maximum spacing between supports shall not exceed eight (8) feet.

6.03 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.

6.04 Light fixtures weighing less than or equal to 10 lb. shall have a minimum of one (1) #12 gage slack safety wire connected from the fixture housing to the structure above.

6.05 Light fixtures weighing greater than 10 lb. but less than or equal to 56 lbs. may be supported directly on the ceiling runners, but they shall have a minimum of two (2) #12 gage slack safety wires connected from the fixture housing at diagonal corners to the structure above.

Exception: All light fixtures greater than two by four feet weighing less than 56 lbs. shall have a #12 gage slack safety wire at each corner.

6.06 All Light fixtures weighing greater than 56 lb. shall be independently supported by not less than four (4) taut #12 gage hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four (4) taut #12 gage wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four (4) times the weight of the fixture.

7. SERVICES WITHIN THE CEILING:

7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.

7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 lb. shall have one (1) #12 gage slack safety wire attached from the terminal or service to the structure above.

7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 lb. but less than or equal to 56 lb. shall have two (2) #12 gage slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.

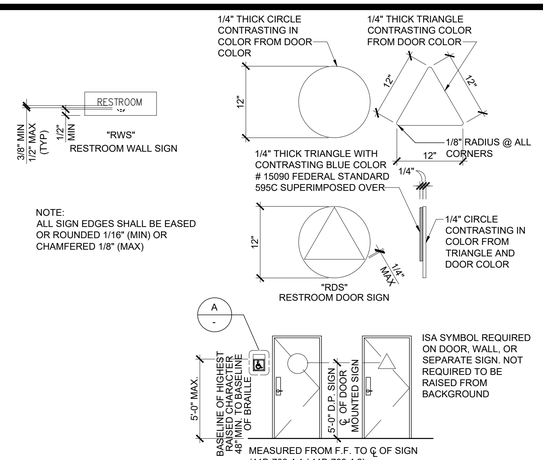
7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 lb. shall be supported directly from the structure above by not less than four (4) taut #12 gage hanger wires attached from the terminal or service to the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING:

8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 lbs. shall have a #12 gage slack safety wire anchored to the structure above. Devices weighing more than 20 lb. shall be supported independently from the structure above.

NOTE:
ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE AND CBC CLASS C FLAME-SPREAD 76-200; SMOKE-DEVELOPED 0-450.

NOTE:
PER CBC SECTION 718.2.1. FIRE BLOCKS MAY BE OF GYPSUM BOARD, CEMENT FIBER BOARD, BATTS OR MINERAL OR GLASS FIBER, OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIRE BLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES. (SECTION 718.2.1). FLAME SPREAD - 25 SMOKE DEVELOPMENT - 50 MAX
FIRE BLOCKING IS NOT REQUIRED WITHIN CONCEALED SPACES CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS



SIGNAGE TEMPLATES

COORDINATE WITH SIGNAGE NOTES (BELOW)

SIGNAGE NOTES

1. CHARACTER TYPE: CHARATERS ON SIGNA SHALL BE RAISED 1/32" (0.794 mm) MINIMUM ABOVE THEIR BACKGROUND AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. (SEE NOTE 5 BELOW) 11B-703.2.1 & 11B-703.2.2 &11B-703.23.

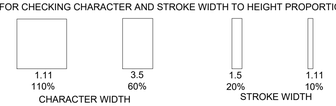
2. CHARACTER HEIGHT: CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (15.9 mm) MINIMUM AND 2 INCH (51 mm) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". 11B-703.2.5

3. FINISH AND CONTRAST: SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH SYMBOLS. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND. 11B-703.7.1.

4. PROPORTIONS: VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE "I" SHALL BE 15% MAX OF THE HEIGHT OF THE CHARACTER. 11B-703.2.4 + 11B-703.2.6

VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER ' I'. STROKE THICKNESS OF THE UPPER CASE ' I ' SHALL BE 10% MIN. AND 20% MAX OF THE HEIGHT OF THE CHARACTER.

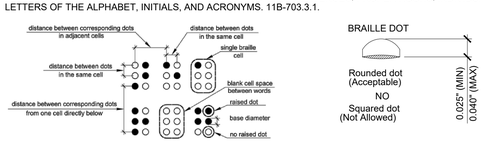
TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:



5. CHARACTER SPACING: CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX). WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX) AT THE BASE OF THE CROSS SECTIONS, AND 1/8" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX) AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" (MIN). 11B-703.2.7

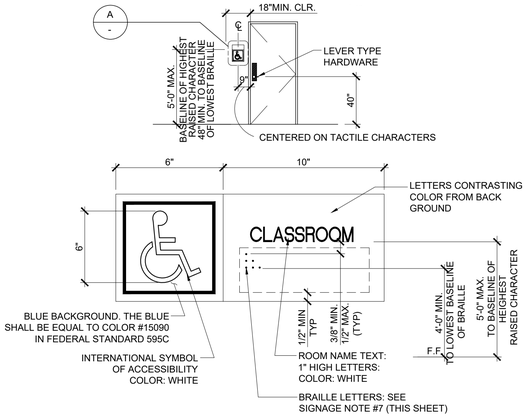
6. LINE SPACING: SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135% (MIN) AND 170% (MAX) OF THE RAISED CHARACTER HEIGHT. 11B-703.2.8

7. BRAILLE: BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4. DIMENSIONS AND CAPITALIZATION: BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS. 11B-703.3.1.



MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6mm)
Distance between two dots in the same cell[1] (Rhodnote-1)	0.100 (2.5 mm)
Distance between corresponding dots in adjacent cells[1] (Rhodnote-1)	0.300 (7.6 mm)
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below[1] (Rhodnote-1)	0.395 (10 mm) to 0.400 (10.2 mm)

1. Measured center to center.



NOTE:
SIGN MATERIAL TO BE 1/8" THK. E.S. PLASTIC W/1/32" RAISED GRAPHICS AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. CBC SECTION 11B-703. WHERE RAISED BOARDERS OCCUR, PROVIDE 1/2" MIN. CLEARANCE BETWEEN TOP OF BOARDER AND LOWEST LEVEL OF BRAILLE TEXT.

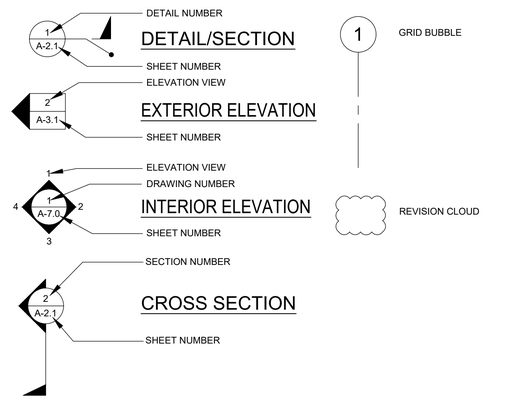
A ROOM IDENTIFCATION ROOM SIGNAGE (BY DISTRICT)

FOR SITE SPECIFIC LOCATIONS ARCHITECT TO PROVIDE BUILDING / ROOM IDENTIFICATION SIGNS. DETAILS AND LOCATIONS OF SIGNAGE TO BE INDICATED.

COORDINATE WITH SIGNAGE NOTES 1 THROUGH 7 ON THIS SHEET.

THIS DETAIL FOR REFERENCE ONLY

SYMBOLS LEGEND



ABBREVIATIONS

AB	ANCHOR BOLT	FIN	FINISH	℄ OR PL	PLATE
ABS	ABSOLUTE	FLR	FLOOR	PC	PRE-CHECKED
ABV	ABOVE	FN	FIELD NAILING	PLAS	PLASTER
ACC	ACCESS	FND	FOUNDATION	PLYWD	PLYWOOD
ADDL	ADDITIONAL	FOC	FACE OF CONCRETE	PNL	PANEL
ADJ	ADJACENT	FOS	FACE OF STUD	POC	POINT OF CONNECTION
AFF	ABOVE FINISH FLOOR	FTG	FOOTING	POT	PATH OF TRAVEL
AFG	ABOVE FINISH GRADE	FOF	FACE OF FINISH	PSF	POUNDS PER SQUARE FOOT
AGC	ABOVE GRADE CONCRETE			PSI	POUNDS PER SQUARE INCH
ALT	ALTERNATE	GA	GAUGE	PT	PRESSURE TREATED
AOR	ARCHITECT OF RECORD	GALV	GALVANIZE		
APPROX	APPROXIMATE	GC	GENERAL CONTRACTOR	RAG	RETURN AIR GRILLE
ARCH	ARCHITECTURAL / ARCHITECT	GR	GRADE	RD	ROOF DRAIN
		GYP	GYPSUM	REF	REFERENCE
BD	BOARD	GYP BD	GYPSUM BOARD	REINF	REINFORCE
BGC	BELOW GRADE CONCRETE			REQ'D	REQUIRED
BLDG	BUILDING	HB	HOSE BIBB	REV	REVISION
BLK	BLOCK	HD	HEAVY DUTY	RF	ROOF
BLKG	BLOCKING	HDR	HEADER	RM	ROOM
BM	BEAM	HDW	HARDWARE	RO	ROUGH OPENING
BOT	BOTTOM (OR BTM)	HF	HEM FIR	ROH	ROOF OVERHANG
BTWN	BETWEEN	HORIZ	HORIZONTAL		
BU	BUILT UP	HT	HEIGHT	SCHED	SCHEDULE
		HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	SEC	SECTION
CAB	CABINET			SHT	SHEET
CBC	CALIFORNIA BUILDING CODE			SHTG	SHEATHING
CI	CAST IRON			SIM	SIMILAR
CJ	CONTROL JOINT	INCL	INCLUDED	SPEC	SPECIFICATION
CJP	COMPLETE JOINT PENETRATION	INFO	INFORMATION	SQ	SQUARE
		INT	INTERIOR	SST	STAINLESS STEEL
℄	CENTER LINE			STD	STANDARD
CLG	CEILING	J-BOX	JUNCTION BOX	STIFF	STIFFENER
CO	CLEAN OUT	JST	JOIST	STL	STEEL
COL	COLUMN	JT	JOINT	STS	SELF-TAPPING SCREW
CONC	CONCRETE			STSMS	SELF-TAPPING SHEET METAL SCREW
CONN	CONNECTION	KO	KNOCK OUT		
CONST	CONSTRUCTION				
CONT	CONTINUOUS	LAB	LABORATORY		
CPT	CARPET	LAM	LAMINATED	T&B	TOP AND BOTTOM
CSK	COUNTERSINK	LAV	LAVATORY	T&G	TONGUE AND GROOVE
CTR	CENTER	LB	POUNDS	TEL	TELEPHONE
		LT	LIGHT	THK	THICK
DBL	DOUBLE	LT WT	LIGHT WEIGHT	TOC	TOP OF COLUMN
DET	DETAIL	LVR	LOUVER	TOS	TOP OF STEEL
DF	DOUGLAS FIR			TS	TUBE STEEL
DIA OR Ø	DIAMETER	MAX	MAXIMUM	TV	TELEVISION
DIAG	DIAGONAL	MB	MACHINE BOLT	TYP	TYPICAL
DIM	DIMENSION	MED	MEDIUM		
DSA	DIVISION OF THE STATE ARCHITECT	MFR	MANUFACTURER	UBC	UNIFORM BUILDING CODE
		MIN	MINIMUM	UON	UNLESS OTHERWISE NOTED
DWG	DRAWING	MISC	MISCELLANEOUS		
		MOD	MODULE	UR	URINAL
(E)	EXISTING	MTL	METAL		
EA	EACH			VERT	VERTICAL
EJ	EXPANSION JOINT	(N)	NEW	VCT	VINYL COMPOSITION TILE
ELEV	ELEVATION	N	NORTH		
EN	END NAIL	NIC	NOT IN CONTRACT (NOT IN SILVER CREEK'S SCOPE OF WORK	W/	WITH
EQ	EQUAL			WC	WATER CLOSET
EQUIP	EQUIPMENT	NO	NUMBER	WCO	WALL CLEAN OUT
EW	EACH WAY	NTS	NOT TO SCALE	WD	WOOD
EXT	EXTERIOR			WH	WATER HEATER
		OC	ON CENTER	WIC	WOODWORK INSTITUTE OF CALIFORNIA
FA	FIRE ALARM	OD	OUTSIDE DIAMETER		
FCO	FLOOR CLEAN OUT	OH	OPPOSITE HAND	WND	WINDOW (OR WDW)
FF	FINISH FLOOR	OPNG	OPENING	W/O	WITHOUT
FG	FINISH GRADE	OPP	OPPOSITE	WP	WATER PROOF

SPECIFICATIONS

DIVISION 5 - METALS

- ALL WELDED JOINTS AND SURFACES SHALL BE GROUNDED SMOOTH, NO SHARP OR ABRASIVES CORNERS, EDGES OR SURFACES. WALL SURFACES ADJACENT TO HANDRAILS SHALL BE SMOOTH,
- ALL HANDRAILS SHALL BE ROUND OR SHALL HAVE RADIUSED EDGES (r = 1/8" MIN)

DIVISION 6 - WOOD AND PLASTICS

- ALL CABINET AND DRAWERS WILL HAVE U-SHAPED WIRE PULLS

DIVISION 9 - FINISHES

- CEILING INSTALLATION SHALL BE PER THE NOTES PROVIDED ON THIS SHEET.

DIVISION 10 - SPECIALITIES

- ALL TOILET ACCESSORIES SHALL BE INSTALLED AT THE HEIGHT AND CLEARANCES SHOWN ON SHEET P-1.01

DIVISION 22 - PLUMBING

- FAUCETS SHALL BE LEVER OPERATED (4" MIN BLADE) OR SHALL BE PUSH TYPE OR AUTOMATIC ELECTRONICALLY CONTROLLED. CONTROLS TO BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE.
- FORCE TO ACTIVATE CONTROLS SHALL NOT BE GREATER THAN 5 LBS
- FORCE TO REMAIN OPEN FOR A MINIMUM OF 10 SECONDS WHEN SELF CLOSING VALVES ARE USED
- PIPE COVERS SHALL BE PROVIDED FOR WATER LINES AND DRAIN PIPES UNDER ACCESSIBLE SINKS AND LAVATORIES
- ACCESSIBLE SINKS SHALL NOT BE DEEPER THAN 6 1/2"

ASSISTIVE LISTENING SYSTEM

ASSISTIVE LISTENING SYSTEM SIGN

NOTES:
1. ASSISTIVE-LISTENING SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTIONS 11B-216.10 AND 11B-219 AND SHALL COMPLY WITH CBC SECTION 11B-706.
2. THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4% OF THE TOTAL NUMBER OF SEATS, BUT IN NO CASE LESS THAN TWO. 25% (MIN) OF RECEIVERS PROVIDED, BUT NO FEWER THAN TWO, SHALL BE HEARING AID COMPATIBLE IN ACCORDANCE WITH CBC SECTION 11B-706.3
3. SIGNAGE SHALL BE POSTED IN A PROMINENT PLACE INDICATING THE AVAILABILITY OF ASSISTIVE LISTENING DEVICES.
4. OWNER/SCHOOL DISTRICT SHALL PROVIDE A PERMANENT OR PORTABLE ASSISTIVE LISTENING SYSTEM.

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MAKING OF DRAWINGS, PRIN
THEREOF WITHOUT THE FUL
CONSENT OF SCI Inc.
ALL PATENTABLE MATERIAL
ORIGINATING WITH SCI Inc S

IDENTIFICATION STAMP
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SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CRE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

SYMBOLS LEGEND, ABBREVIATIONS & ADA SIGNAGE

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

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SILVER CREEK INDUSTRIES
24' x 60' PC

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DRAWN BY:	
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A-0.1

PHASE III

The example form DSA 103s shown on this sheet are for illustration purposes only. A form DSA 103 is to be completed for each application that this PC is being incorporated into and all example form DSA-103s ar to be crossed out on this drawing.

- UT TESTING SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS COLUMN SPLICES OR BEAM SPLICES WHERE THE MATERIAL THICKNESS BEING WELDED IS 5/16" OR GREATER.
- UT TEST SHALL NOT BE REQUIRED TO BE PERFORMED ON CJP GROOVE WELDS WHERE THE MATERIAL THICKNESS BEING WELDED IS 1/4" OR LESS.
- MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM TO COLUMN OR TRUSS CHORD TO COLUMN CJP GROOVE WELDS.

Note: References are to the 2016 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE	PERFORMED BY	CODE REFERENCE AND NOTES
-	**SOILS**			
-	**1. GENERAL:**	**Table 1705A.6**		
X	a. Verify that: • site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, • foundation excavations are extended to proper depth and have reached proper material, and • materials below footings are adequate to achieve the design bearing capacity.	**Periodic**	**GE***	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
-	**2. COMPACTED FILLS:**	**Table 1705A.6**		
X	a. Perform classification and testing of fill materials.	**Test**	**LOR***	* Under the supervision of the geotechnical engineer.
X	b. Verify use of proper materials, densities and inspect lift thicknesses, placement, and compaction during placement of fill.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
X	c. Test compaction of fill.	**Test**	**LOR***	* Under the supervision of the geotechnical engineer.
-	**CONCRETE**	**Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13**		
-	**7. CAST IN PLACE CONCRETE**			
	Material Verification and Testing:			
X	a. Verify use of required design mix.	**Periodic**	**SI***	**Table 1705A.3 Item 5, 1910A.1** (1909.2.3*). * To be performed by qualified batch-plant inspector and concrete sampling technician
X	b. Identify, sample, and test reinforcing steel.	**Test**	**LOR**	**1910A.2** (1909.2.4*); ACI 318-14 Section 26.6.1.2. DSA IR 17-10.16
X	c. During concrete placement, fabricate specimens for strength tests,perform slump and air content tests, and determine the temperature of the concrete.	**Test**	**LOR**	**Table 1705A.3 item 6**; ACI 318-14 Sections 26.5 & 26.12
X	d. Test concrete (f'_c).	**Test**	**LOR**	**1905A.1.16** (1909.3.7*); ACI 318-14 Section 26.12.
	Inspection:			
X	e. Batch plant inspection ○ Continuous ◉ Periodic	**See Notes**	**SI**	Default of **"Continuous"** per **1705A.3.3**; If approved by DSA, batch plant inspection may be reduced to **'Periodic'** subject to requirements in Section **1705A.3.3.1** or eliminated per **1705A.3.3.2.** (See Appendix for exemptions.)
+	**MASONRY**	**TMS 402-13/ACI 530-13/ASCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5**		
-	**STEEL, ALUMINUM**	**Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10**		
-	**17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES**			
	Material Verification:			
X	a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	**Periodic**	*	**2203A.1** (2203.1*), **Table 1705A.2.1 Item 3a-3c;** AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S200-12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when performed off-site.
X	b. Test unidentified materials	**Test**	**LOR**	**2203A.1** (2203.1*).
X	c. Examine seam welds of HSS shapes	**Periodic**	**SI**	DSA IR 17-3.
	Inspection:			
X	e. Verify and document steel fabrication per DSA approved construction documents.	**Periodic**	**SI**	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).
-	**19. WELDING:**			**1705A.2.5, Table 1705A.2.1 Items 4 & 5;** DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.)
	Verification of Materials, Equipment, Welders, etc:			
X	a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	**Periodic**	**SI**	DSA IR 17-3.
X	b. Verify weld filler material manufacturer's certificate of compliance.	**Periodic**	**SI**	DSA IR 17-3.
X	c. Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.
-	**19.1 SHOP WELDING:**			
X	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	**Continuous**	**SI**	**Table 1705A.2.1 Item 5a1-4.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	c. Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1.** Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3.
-	**19.2 FIELD WELDING:**			
X	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	**Continuous**	**SI**	**Table 1705A.2.1 Item 5a1-4.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16"	**Periodic**	**SI**	**Table 1705A.2.1 Item 5a.5.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	f. Inspect welding of stairs and railing systems	**Periodic**	**SI***	**1705A.2.1;** Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
-	**20. NONDESTRUCTIVE TESTING:**			
X	a. Ultrasonic	**Test**	**LOR**	**1705A.2.1 & 1705A.2.5.** AISC 360-10 N5.5, AISC 341-10 J6.2. AWS D1.1, D1.8. ANSI/ASNT CP-189, SNT-TC-1A. DSA IR 17-2.
X	b. Magnetic Particle	**Test**	**LOR**	
-	**21. STEEL JOISTS AND TRUSSES:**			
+	**WOOD**			
-	**OTHER**			
X	**28. Electrical grounding**	**Test**	PI	Electrical grounding test per IR E-1.

List of required verified report(s):

1 Soils testing and Inspection: Geotechnical Verified Report - Form DSA-293
2 All Structural Testing: Laboratory Verified Report - Form DSA-291
3 Concrete Batch Plant Inspection: Laboratory Verified Report - Form DSA-291
4 Shop Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
5 Field Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
6 Steel Joist Fabrication Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292

KEY to Columns

1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	**GE** – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	**LOR** – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test – Indicates that a test is required	**SI** – Indicates that the special inspection is to be performed by a special inspector

CONCRETE FLOOR AND/OR CONCRETE FOUNDATION | 2

Appendix: Work Exempt from DSA Requirements for Special Inspection or Structural Testing

Exempt items given in IR A-22 or the 2016 CBC (including DSA amendments) and those items identified below with an "X" by the design professional are NOT subject to DSA requirements for the structural tests or special inspections noted. Items marked as exempt shall be identified by either: 1) listing specific details/sheets noted in the spaces provided below OR 2) on the approved construction documents. The project inspector shall verify all construction compliies with the approved construction documents.

Exempted by Design Prof.	Soils:
	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per 2016 CBC Table 1806A.2 and having no geotechnical report for the following types of structures: free standing sign, scrolling message sign, scoreboard, covered walkway or shade structure with dead load less than 5 psf and other light-weight structures of which the apex is less than 8' above the highest adjacent grade.
X	2. Shallow foundations meeting the exception item #1 criteria specified in 2016 CBC Section 1803A.2.
(Optional) List details for applicable exempt items:	
	Concrete/Masonry:
X	1. Post-installed anchors for the following: 1) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding") given in CBC Section 1616A.1.18 (which replaces ASCE 7-10, Section 13.1.4; or 2) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
X	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
	3. Masonry retaining walls less than 4'-0" above the top of foundation not supporting a surcharge and free standing nonbearing non-shear masonry walls up to 6'-0" above adjacent grade, do not require grout, mortar or masonry core testing or DSA special inspection.
	4. Epoxy shear dowels in site flatwork.
(Optional) List details for applicable exempt items:	

Exempted by Design Prof.	Welding:
	1. Solid-clad and open-mesh gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
X	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the "Exception" language in Section 1705A.2.1); fillet welds cannot be ground flush.
X	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
X	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 200# (equipment only) (connections of such frames to supestructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
X	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to supestructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
X	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 of listing above).
X	7. Any support for exempt non-structural components given in CBC Section 1616A.1.18 (which replaces ASCE 7-10, Section 13.1.4) meeting the following: 1) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) <= 4' above supporting floor/roof, 2) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.
(Optional) List details for applicable exempt items:	

WORK EXEMPT FROM SPECIAL INSPECTIONS OR TESTING | 1

Note: References are to the 2016 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE	PERFORMED BY	CODE REFERENCE AND NOTES
+	**SOILS**			
+	**CONCRETE**	**Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13**		
+	**MASONRY**	**TMS 402-13/ACI 530-13/ASCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5**		
-	**STEEL, ALUMINUM**	**Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10**		
-	**17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES**			
	Material Verification:			
X	a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	**Periodic**	*	**2203A.1** (2203.1*), **Table 1705A.2.1 Item 3a-3c;** AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S200-12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when performed off-site.
X	b. Test unidentified materials	**Test**	**LOR**	**2203A.1** (2203.1*).
X	c. Examine seam welds of HSS shapes	**Periodic**	**SI**	DSA IR 17-3.
	Inspection:			
X	e. Verify and document steel fabrication per DSA approved construction documents.	**Periodic**	**SI**	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).
-	**19. WELDING:**			**1705A.2.5, Table 1705A.2.1 Items 4 & 5;** DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.)
	Verification of Materials, Equipment, Welders, etc:			
X	a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	**Periodic**	**SI**	DSA IR 17-3.
X	b. Verify weld filler material manufacturer's certificate of compliance.	**Periodic**	**SI**	DSA IR 17-3.
X	c. Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.
-	**19.1 SHOP WELDING:**			
X	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	**Continuous**	**SI**	**Table 1705A.2.1 Item 5a1-4.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	c. Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1.** Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3.
-	**19.2 FIELD WELDING:**			
X	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	**Continuous**	**SI**	**Table 1705A.2.1 Item 5a1-4.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16"	**Periodic**	**SI**	**Table 1705A.2.1 Item 5a.5.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
X	f. Inspect welding of stairs and railing systems	**Periodic**	**SI***	**1705A.2.1;** Per AISC 360-10 (and AISC 341-10 as applicable). AWS D1.1 & D1.3. DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
-	**20. NONDESTRUCTIVE TESTING:**			
X	a. Ultrasonic	**Test**	**LOR**	**1705A.2.1 & 1705A.2.5.** AISC 360-10 N5.5, AISC 341-10 J6.2. AWS D1.1, D1.8. ANSI/ASNT CP-189, SNT-TC-1A. DSA IR 17-2.
X	b. Magnetic Particle	**Test**	**LOR**	
-	**21. STEEL JOISTS AND TRUSSES:**			
+	**WOOD**			
-	**OTHER**			
X	**28. Electrical grounding**	**Test**	PI	Electrical grounding test per IR E-1.

List of required verified report(s):

1 All Structural Testing: Laboratory Verified Report - Form DSA-291
2 Shop Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
3 Field Welding Inspection: Laboratory Verified Report - Form DSA-291, or, for independently contracting SI, Special Inspection Verified Report - Form DSA-292
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Periodic – Indicates that a periodic special inspection is required	**LOR** – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test – Indicates that a test is required	**SI** – Indicates that the special inspection is to be performed by a special inspector

PLYWOOD FLOOR AND WOOD FOUNDATION | 1

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DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

T & I FORMS

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED
CODE: 2010 CGC

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS
1
2
3
4
5
6
7
8

SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 8-10-18

P.C. SHEET NUMBER
A-0A

PHASE III

WINDOW SCHEDULE

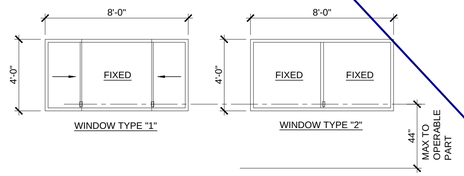
WINDOW NO.	QTY	TYPE	WIDTH	HEIGHT	FUNCTION	FRAME MATERIAL	GLASS MATERIAL	WALL THICKNESS	NOTES
A		1	8'-0"	4'-0"	XOX	ANOD	DP		
B		2	8'-0"	4'-0"	FIXED	FRW	FRG		45 MINUTE ASSEMBLY

WINDOW FINISH

ANOD: CLEAR ANODIZED ALUMINUM FRAME
BRONZ: BRONZE ANODIZED ALUMINUM FRAME
PAINT: PAINTED FRAME
WF: 16GA WELDED FRAME
FRW: FIRE RATED WINDOW
FRAME: MIN 0.048" THICK WELDED FRAME
FRG: FIRE RATED GLAZING: 1/4" WIRED GLASS. LABELED TO MEET THE REQUIREMENTS FOR A 3/4 HOUR FIRE WINDOW ASSEMBLY PER CBC SECTION/TABLE 715.5

DP: 3/16" MINIMUM DUAL PANE TEMPERED GLASS OF SOLAR GRAY - 3/16" ENERGYSHIELD, ALL OPERABLE SASH SHALL HAVE SCREENS. (U-FACTOR = .510 MAX, VT = 0.500 MIN., SHGC = .360 MAX, STC = 36 MIN.)

WINDOW TYPE



NOTE:
1. OPERABLE WINDOW CONTROLS SHALL COMPLY WITH CBC 11B.309.4 AND SHALL NOT REQUIRE TIGHT GRASPING,PINCHING OR TWISTING OF THE WRIST
2. WINDOW CONTROLS SHALL NOT REQUIRE MORE THAN 5LBS OF FORCE TO OPEREATE
3. THE REQUIRED FORCE TO PUSH/PULL THE WINDOW PANEL SHALL NOT EXCEED 5LBS

DOOR SCHEDULE

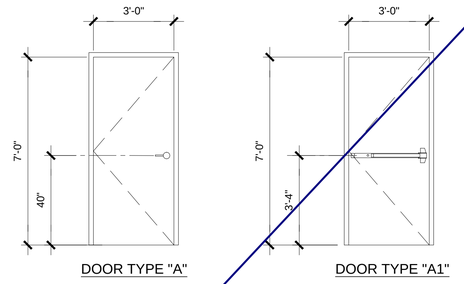
DOOR NO	WIDTH	HEIGHT	DOOR TYPE	QTY	DOOR MAT/FIN	FRAME MAT/FIN	HARDWARE SET	WALL THICKNESS	NOTES*
1	3'-0"	7'-0"	A		HM	KD	HW - 1	5 1/4"	
1P	3'-0"	7'-0"	A1		HM	KD	HW - 2	5 1/4"	
2	3'-0"	7'-0"	A		SCL	KD	HW - 3	5 1/2"	
3	3'-0"	7'-0"	A		SCL	KD	HW - 4	5 3/4"	
5	3'-0"	7'-0"	A		HM	KD	HW - 6	4 7/8"	
6	3'-0"	7'-0"	A		HM	KD	HW - 5	4 7/8"	NO CLOSER REQ'D.

DOOR MATERIAL AND FINISH ABBREVIATIONS

HM: 14GA HOLLOW METAL
WF: 16GA WELDED FRAME

*EXTERIOR DOORS TO BE UNINSULATED SINGLE LAYER DOORS W/ U-FACTOR OF 0.500 MAX

DOOR TYPES & NOTES



1. DOOR HANDLE FOR LOCKSETS AND PANIC HARDWARE TO BE CENTED AT 40" AFF HARDWARE TO BE OPENED FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. LEVERS TO RETURN TO WITHIN 1/2" OF DOOR
2. ALL DOORS SHALL BE 1 3/4" THICK U.N.O.
3. CLOSER SHALL BE SET FOR MAXIMUM OPENING PRESSURE OF 5 LBS AT EXTERIOR AND INTERIOR DOORS.
4. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER.
5. ALL HARDWARE SHALL COMPLY WITH SILVER CREEK'S SPECS ON THIS SHEET AND CBC SECTIONS 11B-206.6,11B-404.1 & 1010.
6. DOOR CLOSER SHALL BE ADJUSTED TO SO THAT FROM AN OPEN POSITION OF 90°, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO A POINT 12° FROM THE LATCH, MEASURED TO THE LANDING SIDE OF THE DOOR
7. PANIC AND FIRE EXIT HARDWARE, WHERE THIS TYPE HARDWARE IS INSTALLED, IT SHALL COMPLY WITH THE FOLLOWING
   -THE ACTUATING PORTION OF THE RELEASING DEVICE SHAL EXTEND AT LEASE ONE-HALF OF THE DOOR LEAF WIDTH.
   -THE MAXIMUM FORCE TO ACTIVATE ANY OPERABLE PART SHALL NOT EXCEED 5 LBS PER THE 2016 CBC, PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1010.1.10
8. ALL HAND ACTIVATED HARDWARE SHALL BE LEVER TYPE, PANIC BARS, PUSH/PULL TYPE OR 'U' SHAPED HANDLES
9. ALL HAND ACTIVATED HARDWARE SHALL BE EASY TO OPERATE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST TO OPERATE.
10. FLOOR STOP SHALL BE LOCATED 4" MAX FROM FACE OF WALL.

FINISH SCHEDULE

ROOM NAME	FLOORING		WALL FINISH				CEILING		NOTES
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT	
CLASSROOM 101	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"	
CLASSROOM 102	CARP	4" TS	TACK	TACK	TACK	TACK	CP	8'-6"	
UNISEX 103	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-0"	
UNISEX 104	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-0"	

FLOOR, WALL, CEILING MATERIALS

FLOORING
CARP: CARPET PER STATE OF CALIFORNIA SPECIFICATIONS COMPLYING WITH GROUP 1; TYPE "A" OR TYPE "B"; CLASS 2; DENSITY 4600; DIRECT GLUE DOWN
SV: SHEET VINYL FLOORING
VCT: VINYL COMPOSITION TILE

BASE
4" TS: 4" TOP SET BASE
6" TS: 6" TOP SET BASE
SC: 6" SELF-COVE BASE

WALLS
TACK: 1/2" VINYL TACKBOARD CLASS 1 OVER ½" GYPSUM BOARD BACKING
FRP: 1/8" FIBER REINFORCED PANEL OVER ½" WATER RESISTANT GYPSUM BOARD
GYP: 1/2" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH
PLY: 1/2" PLYWOOD FINISH
NF: NO FINISH

CEILING
CP: ACOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATION NOTES ON REFLECTED CEILING PLAN)
HC: 5/8" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH (HARD LID CEILING)
GBP: 1/2" GYPSUM BOARD WASHABLE PANELS (PAINTED)

FINISH NOTES

1. ALL FINISHES SHALL COMPLY WITH CBC, CFC AND TITLE 19 CCR.
2. PREPARATION FOR SUB-FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. PLYWOOD SUB-FLOOR IS 2.4.1. PLYWOOD. OUTER PLYWOOD IS PLUGGED AND TOUCH SANDED. ANY DEFORMITIES DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR. THE JOINT AT THE MODLINE SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.
3. RESILIENT FLOORING DEMONSTRATING A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM D2047, WILL BE ACCEPTED AS MEETING THE INTENT OF SLIP RESISTANCE.
4. CARPET SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT, OR LEVEL CUT / UNCUT PILE TEXTURE AND MAXIMUM PILE HEIGHT OF 1/2" PER THE 2016 CBC. CARPET EDGED SHALL COMPLY WITH THE 2016 CBC.

DOOR HARDWARE

CLASSROOM - EXTERIOR DOOR HW-1

LOCKSET	SCHLAGE ND75PDRHO626 (cylindrical)	Finish 26D	or equal
BUTTS	HAGER BB1191 4 1/2" x 4 1/2" NRP	Finish 26D	or equal
CLOSER	NORTON 8501 BFDA	Finish 689	or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum	or equal
THRESHOLD	HAGER 413SA 36	Finish Alum	or equal
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum	or equal

DOOR W/ PANIC HARDWARE - EXTERIOR DOOR HW-2

EXIT DEVICE	VON DUPRIN AX-99L-2PA w/ SCHLAGE rim cylinder	Finish Alum	or equal
BUTTS	HAGER BB1191 4 1/2" x 4 1/2" NRP	Finish 26D	or equal
CLOSER	NORTON 8501 BFDA	Finish 689	or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum	or equal
THRESHOLD	HAGER 413SA 36	Finish Alum	or equal
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum	or equal

STAFF RESTROOM / SINGLE-OCCUPANCY - INTERIOR DOOR HW-3

LOCKSET	SCHLAGE ND40SRHO626 (cylindrical)	Finish 26D	or equal
BUTTS	HAGER 1279 4 1/2" x 4 1/2"	Finish 26D	or equal

CLASSROOM PASS - INTERIOR DOOR HW-4

LOCKSET	SCHLAGE ND66PDRHO626	Finish 26D	or equal
BUTTS	HAGER 1279 4 1/2" x 4 1/2"	Finish 26D	or equal

BOYS & GIRLS RESTROOM - EXTERIOR DOOR HW-5

LOCKSET	SCHLAGE ND70PDRHO626 (cylindrical)	Finish 26D	or equal
BUTTS	HAGER BB1191 4 ½" x 4 ½" NRP	Finish 26D	or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum	or equal
THRESHOLD	HAGER 413SA 36	Finish Alum	or equal
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum	or equal
LOUVER	ANEMO 24 x 12	Finish Bronze	or equal

STAFF RESTROOM - EXTERIOR DOOR HW-6

LOCKSET	SCHLAGE ND85PDRHO626 (cylindrical)	Finish 26D	or equal
BUTTS	HAGER BB1191 4 ½" x 4 ½" NRP	Finish 26D	or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum	or equal
THRESHOLD	HAGER 413SA 36	Finish Alum	or equal
DOOR BOTTOM	HAGER 783SAV 35N	Finish Alum	or equal
LOUVER	ANEMO 24 x 12	Finish Bronze	or equal

EMERGANCY EXIT AND PANIC HARDWARE:
INDICATE ON PLANS AND/OR SPECIFICATIONS COMPLIANCE WITH SFM STANDARD 12-10-3, SECTION 12-10-302.
(A) THE CROSS-BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE.
(D) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.
BRING CUT-SHEETS OF PANIC HARDWARE TO BACK CHECK APPOINTMENT TO DEMONSTRATE COMPLIANCE TO STD. 12-10-3.

INSULATION SPECIFICATIONS

MOISTURE PROTECTION INSULATION:

DESCRIPTION OF WORK: THE FURNISHING AND INSTALLING OF ALL INSULATION FOR ALL CEILING, FLOOR AREAS, PIPES AND EXTERIOR WALLS. (CLASS A = 0-25 FLAME SPREAD;) SMOKE DEVELOPMENT DENSITY LESS THAN 450.

MATERIAL: INSULATING MATERIAL FOR WALLS, CEILINGS, AND FLOORS SHALL BE FIBERGLASS BATTS (UNFACED) AND SHALL COMPLY WITH CBC 720.1, 720.2, 720.3, 720.5 AND 720.7. INSULATION SHALL BE AS MANUFACTURED BY OWENS-CORNING FIBERGLASS CORPORATION, JOHNS-MANVILLE, CERTAINTIES, OR EQUAL.

INSULATION VALUES
SEE SHEETS A-0.7 FOR MINIMUM REQUIRED INSULATION VALUES FOR SPECIFIC BUILDING SIZE AND CONFIGURATION.

EXTERIOR WALL INSULATION (MIN.)
☒ R-13 (2x4)
☒ R-19 (2x6)
☐ R-30 (2x8)

INTERIOR WALL INSULATION (MIN.)
R-13

FLOOR INSULATION (MIN.)
R-19

ROOF INSULATION (MIN.)
R-30

STEEL STUD EXTERIOR WALL
☐ R-13 (2X4) W/ R-4 CONT. RIGID INSULATION

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THEREOF WITHOUT THE FUL
CONSENT OF SCI Inc.
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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

SCHEDULES

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24975
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS
1
2
3
4
5
6
7
8

SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 8-10-18

P.C. SHEET NUMBER
A-0.2

PHASE III

Project Name:	04-116719 - 72x60 - WD FLR - WALL HVAC - CZ 14	NRCC-PRF-01-E	Page 16 of 19
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F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-02-E)* **§ RA4**

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be omitted: (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-04-A	MCH-04-B	MCH-04-C	MCH-04-D	MCH-04-E	MCH-04-F	MCH-04-G	MCH-04-H	MCH-04-I	MCH-04-J	MCH-04-K	MCH-04-L	MCH-04-M	MCH-12-A	Confirmed	
Equipment Requiring Testing or Verification	# of units	Economizer	Supply Fans Variable Flow	Air Dist. Ducts	Enclosed Mechanical Cooling	DCV	Supply Fan VFD	Valves Hydronic	Supply Water Temp. Reset	Pipe Insulation	Mech. Cooling Dedicated Outdoor Air System	Hydronic Variable Flow Plant	Direct Energy Storage Tanks	Supply Air Temp. Reset	Cooling Tower Fan VFD	CO2	Pass	Fail
Non-Residential Unit/System	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐
AirSystem 1	4	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) **§ 140.6**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Location in Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Control Credit Calculation: Watts of Controlled Lighting	Control Credit Calculation: Power Adjustment Factor	Control Credit Calculation: Control Credit Watts	√ if Acceptance Test Required	Confirmed: Pass	Confirmed: Fail
Space 1	Classrooms, Lecture, Training, Vocational Areas	- none specified -	1	0.00	0			☐	☐

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance — Report Version: NRCC-PRF-01-E-08082017-4377 — Report Generated at: 2018-08-10 16:03:06

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Compliance Scope:	NewCom|plete	Input File Name:	72x60 - WD FLR - WALL HVAC.cbd16

**Multiple entries for an Occupancy Type may be listed in the table as these have been aggregated for Building Stories that have the same floor multiplier.*

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)* **§ 130.0**

Luminaire Schedule (Includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in cabinets)

Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts (Conditioned): Watts per luminaire	How Wattage is Determined: CEC Default from NAE	How Wattage is Determined: According to §130.0(c)	Total Number Luminaires	Installed Watts	Confirmed: Pass	Confirmed: Fail
SCI - 2x4 LED		60	No	Yes	48	2,880	☐	☐

** If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for luminaire Schedule details.*

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES **§ 140.9**

This Section Does Not Apply

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS **§ 140.9**

This Section Does Not Apply

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS **§ 140.9**

This Section Does Not Apply

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS **§ 140.9**

This Section Does Not Apply

T. UNMET LOAD HOURS

This Section Does Not Apply

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWh)	Proposed Design Site (kWh)	Margin (kWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	8.5	53.9	–	–	–	–
Space Cooling	11.6	14.8	-3.2	–	–	–
Indoor Fans	19.3	11.9	7.4	–	–	–

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance — Report Version: NRCC-PRF-01-E-08082017-4377 — Report Generated at: 2018-08-10 16:03:06

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Compliance Scope:	NewCom|plete	Input File Name:	72x60 - WD FLR - WALL HVAC.cbd16

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –

Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance

(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

See Tables G, and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed: Pass	Confirmed: Fail
Plumbing	☒ NRCI-PLB-01-E - For all buildings with Conditioned Spaces	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-23-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-24-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-TTH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☒ NRCI-LTI-01-E - For all buildings	☐	☐
	☒ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☒ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☒ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☒ NRCI-LTO-01-E = Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☒ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E = Sign Lighting	☐	☐
Electrical	☒ NLC-ELC-01-E- Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance — Report Version: NRCC-PRF-01-E-08082017-4377 — Report Generated at: 2018-08-10 16:03:06

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Project Address:	CZ 14 - WORST CASE	Calculation Date/Time:	16:01, Fri, Aug 10, 2018
Compliance Scope:	NewCom|plete	Input File Name:	72x60 - WD FLR - WALL HVAC.cbd16

A. PROJECT GENERAL INFORMATION

1. Project Location (city)	CZ 14 - WORST CASE	8. Standards Version	Compliance2016
2. CA Zip Code		9. Compliance Software (version)	CBECC-Com 2016.2.1 (R68)
3. Climate Zone	14	10. Weather File	FALMDALC_723820_CZ0010.epw
4. Total Conditioned Floor Area in Scope	4,320 ft²	11. Building Orientation (deg)	02 165 deg
5. Total Unconditioned Floor Area	0 ft²	12. Permitted Scope of Work	NewComplete
6. Total # of Stories (Habitable Above Grade)	1	13. Building Type(s)	Nonresidential
7. Total # of dwelling units	0	14. Gas Type	NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² -yr) **§ 140.1**

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	20.82	33.55	-12.73	-61.1%
Space Cooling	113.31	144.04	-28.73	-24.9%
Indoor Fans	103.65	63.02	40.63	39.2%
Heat Rejection	–	–	–	–
Pumps & Misc.	–	–	–	–
Domestic Hot Water	13.23	13.23	0	0.0%
Indoor Lighting	58.51	32.51	26.00	44.4%
COMPLIANCE TOTAL	**311.52**	**286.35**	**25.17**	**8.1%**
Receptacle	64.30	64.30	0.0	0.0%
Process	–	–	–	–
Other Ltg	–	–	–	–
TOTAL	**375.82**	**350.65**	**25.2**	**6.7%**

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance — Report Version: NRCC-PRF-01-E-08082017-4377 — Report Generated at: 2018-08-10 16:03:06

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SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE…

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

PRF FORMS
ZONE 14 WORST CASE
72' x 60'

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC_RM_ FLS_DS_SSR_KER
DATE 10/05/2018

REVISIONS

1	
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6	
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8	

SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:

DRAWN BY:

SCALE: AS NOTED

DATE: 8-10-18

P.C. SHEET NUMBER

A-0.5D

PHASE III

Project Name:	04-116719 - 72x60 - WD FLR - WALL HVAC - CZ 14	NRCC-PRF-01-E	Page 17 of 19
Project Address:	CZ 14 - WORST CASE	Calculation Date/Time:	16:01, Fri, Aug 10, 2018
Compliance Scope:	NewCom|plete	Input File Name:	72x60 - WD FLR - WALL HVAC.cbd16

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) **§ 140.6**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Location in Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Control Credit Calculation: Watts of Controlled Lighting	Control Credit Calculation: Power Adjustment Factor	Control Credit Calculation: Control Credit Watts	√ if Acceptance Test Required	Confirmed: Pass	Confirmed: Fail
Space 1	Classrooms, Lecture, Training, Vocational Areas	- none specified -	1		0.00	0		☐	☐

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) **§ 130.1**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)

Location in Building	Type/Description of Lighting Control: (i.e., occupancy sensor, dimming, automatic daylighting control, etc.)	# of Units	Standards Compliance (√ all that apply or "L" if exempt): §130.1(a)	§130.1(b)	§130.1(c)	§130.1(d)	§130.1(e)	Is Acceptance Test Required?	Confirmed: Pass	Confirmed: Fail
Space 1	ROOM LIGHTING CONTROL SYSTEM	1	√	√	√	√	E	Yes	☐	☐

§130.1(a) = Manual-on Control, §130.1(b) = Multi-Level, §130.1(c) = Auto Shut Off, §130.1(d) = Mandatory Daylight, §130.1(e) = Demand Responsive

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) **§ 140.6**

General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) **§ 140.6-D**

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) **§ 140.6(c) 3H**

Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed: Pass	Confirmed: Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Note: Tailored Method for special function Areas is not currently implemented

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance — Report Version: NRCC-PRF-01-E-08082017-4377 — Report Generated at: 2018-08-10 16:03:06

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Compliance Scope:	NewCom|plete	Input File Name:	72x60 - WD FLR - WALL HVAC.cbd16

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWh)	Proposed Design Site (kWh)	Margin (kWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Heat Rejection	–	–	–	–	–	–
Pumps & Misc.	–	–	–	–	–	–
Domestic Hot Water	–	–	–	39.6	39.6	0.0
Indoor Lighting	10.6	5.9	4.7	–	–	–
COMPLIANCE TOTAL	**41.5**	**41.1**	**0.4**	**99.5**	**39.6**	**53.9**
Receptacle	11.4	11.4	0.0	–	–	–
Process	–	–	–	–	–	–
Other Ltg	–	–	–	–	–	–
TOTAL	**52.9**	**52.5**	**0.4**	**99.5**	**39.6**	**53.9**

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance — Report Version: NRCC-PRF-01-E-08082017-4377 — Report Generated at: 2018-08-10 16:03:06

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Project Address:	CZ 14 - WORST CASE	Calculation Date/Time:	16:01, Fri, Aug 10, 2018
Compliance Scope:	NewCom|plete	Input File Name:	72x60 - WD FLR - WALL HVAC.cbd16

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –

Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance

(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

See Tables G, and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed: Pass	Confirmed: Fail
Covered Process	☐ NRCI-PRC-01-E Refrigerated Warehouse	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

				Confirmed: Pass	Confirmed: Fail
1.	Total Conditioned Floor Area	4,320 ft²	5. Number of Floors Above Grade	1	
2.	Total Unconditioned Floor Area	0 ft²	6. Number of Floors Below Grade	0	
3.	Addition Conditioned Floor Area	0 ft²			
4.	Addition Unconditioned Floor Area	0 ft²			

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	756 ft²	64 ft²	08.5%	☐	☐
East Wall	660 ft²	32 ft²	04.8%	☐	☐
South Wall	756 ft²	64 ft²	08.5%	☐	☐
West Wall	660 ft²	32 ft²	04.8%	☐	☐
Total	**2,832 ft²**	**192 ft²**	**06.8%**	☐	☐
Roof	4,320 ft²	0 ft²	00.0%	☐	☐

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance — Report Version: NRCC-PRF-01-E-08082017-4377 — Report Generated at: 2018-08-10 16:03:06

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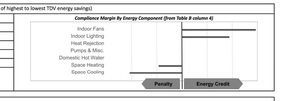
Compliance Scope:	NewCom|plete	Input File Name:	72x60 - WD FLR - WALL HVAC.cbd16

C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Indoor Fans: Check envelope and mechanical
2nd	Indoor Lighting: Check lighting
3rd	Heat Rejection: Check envelope and mechanical
4th	Pumps & Misc.: Check mechanical
5th	Domestic Hot Water: Check mechanical
6th	Space Heating: Check envelope and mechanical
7th	Space Cooling: Check envelope and mechanical

Compliance Margin By Energy Component (from Table B column 4)



D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided

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F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

Rectangular Spaces: Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Confirmed: Pass	Confirmed: Fail
NA	NA	NA	NA	NA	NA	☐	☐

Non-Rectangular Spaces

This Section Does Not Apply

Note: All applicable spaces are listed under the Non-Rectangular Spaces table

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)

1. Wall Display	2. Combined Floor Display and Task Lighting	3. Combined Ornamental and Special Effects Lighting	4. Very Valuable Merchandise	Allowed Watts	Confirmed: Pass	Confirmed: Fail
0	0	0	0	0	☐	☐

5. Wall Display

This Section Does Not Apply

6. Floor Display and Task Lighting

This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting

This Section Does Not Apply

8. Very Valuable Merchandise

This Section Does Not Apply

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT **§ 10-103**

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	SILVER CREEK
Company:	SILVER CREEK
Address:	
City/State/Zip:	
Phone:	951-943-5393
Signature:	
Signature Date:	8.10.18
CEA Identification (if applicable):	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1	I hereby affirm that I am an eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Engineer Designer Name:	JOHN STARLIN
Company:	SILVER CREEK
Address:	2830 BARRETT AVE
City/State/Zip:	PERRIS CA 92571
Phone:	951-943-5393
Signature:	
Date Signed:	8.10.18
Declaration Statement Type:	1
Title:	Engineer
License #:	24775

Responsible Lighting Designer Name:	JOHN STARLIN
Company:	SILVER CREEK
Address:	2830 BARRETT AVE
City/State/Zip:	PERRIS CA 92571
Phone:	951-943-5393
Signature:	
Date Signed:	8.10.18
Declaration Statement Type:	1
Title:	Engineer
License #:	24775

Responsible Mechanical Designer Name:	JOHN STARLIN
Company:	SILVER CREEK
Address:	2830 BARRETT AVE
City/State/Zip:	PERRIS CA 92571
Phone:	951-943-5393
Signature:	
Date Signed:	8.10.18
Declaration Statement Type:	1
Title:	Engineer
License #:	24775

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J. FENESTRATION ASSEMBLY SUMMARY **§ 110.6** Confirmed

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method*	4. Assembly Method	5. Area ft²	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. Exempt (yes)	Pass	Fail
SCI - FWC 6200 - SLIDER - SB60 / CLR	Vertical/Fenestration Operable/Window / N/A	NFRC Rated	Manufactured	192	0.51	0.36	0.50	N	☐	☐

** Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*

*** Status: N - New, A – Altered, E – Existing*

Taking compliance credit for fenestration shading devices? (If "Yes", see NRCC-PRF-ENV-DETAILS for more information) No

K. OPAQUE SURFACE ASSEMBLY SUMMARY **§ 120.7/ § 140.3** Confirmed

1. Surface Name	2. Surface Type	3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. U-Factor / Z-Factor	8. Exempt (yes)	Pass	Fail
2x4 T111 WALL	ExteriorWall	2832	Wood	13	NA	U-Factor: 0.082	N	☐	☐
SCI PLYWD FLOOR	ExteriorFloor	4320	Metal	19	NA	U-Factor: 0.066	N	☐	☐
SCI MTL ROOF	Roof	4320	Metal	30	NA	U-Factor: 0.055	N	☐	☐

Status: N - New, A – Altered, E – Existing

L. ROOFING PRODUCT SUMMARY **§ 140.3** Confirmed

1. Product Type	2. Product Density (lb/ft³)	3. Aged Solar Reflectance	4. Thermal Emittance	5. SRI	6. Cool Roof Credit	7. Roofing Product Description	Pass	Fail
SCI MTL ROOF	5.55781	0.08	0.75	NA	No	NA	☐	☐

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA" = not in project

For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path	Compliance Forms *(required for submittal)*	Location of Mandatory Notes on Plans
Envelope	☒ Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☒ Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐ NA		
Mechanical	☒ Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☒ Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐ NA		
Domestic Hot Water	☐ Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☒ Prescriptive	NRCC-PLB-01-E	
	☐ NA		
Lighting (Indoor Conditioned)	☒ Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☐ Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☐ NA		
Covered Process: Commercial Kitchens	☐ Performance	52 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 03-E	
	☒ NA		
Covered Process: Computer Rooms	☐ Performance	53 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 04-E	
	☒ NA		
Covered Process: Laboratory Exhaust	☐ Performance	54 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/ 09-E	
	☒ NA		

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.

Yes	NA	Prescriptive Requirement	Compliance Forms
☒	☐	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E
☐	☒		
☒	☐	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E
☐	☒	Lighting (Sign) §140.8	NRCC-LTS-01-E
☐	☒	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E

Yes	NA	Mandatory Requirement	Compliance Forms
☐	☐	Commissioning: §120.8 Complex Systems	NRCC-CXR-01 / 02 / 03 / 05-E
☐	☐	Cooling Towers	NRCC-CXR-01 / 02 / 04 / 05-E
☐	☐	Electrical: §130.5	NRCC-ELC-01-E
☐	☐	Solar Ready: §110.10	NRCC-SRA-01 / 02-E
☐	☐	Covered Process: §120.6 Parking Garage	NRCC-PRC-01-E
☐	☐	Commercial Refrigeration	NRCC-PRC-02-E
☐	☐	Warehouse Refrigeration	NRCC-PRC-05-E
☐	☐	Comp

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Compliance Scope:	NewCoplete	Input File Name:	72x60 - WD FLR - WALL HVAC.cbd16

F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* **§ RA4**

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-04-A	MCH-04-B	MCH-04-C	MCH-04-D	MCH-04-E	MCH-04-F	MCH-04-G	MCH-04-H	MCH-04-I	MCH-04-J	MCH-04-K	MCH-04-L	MCH-04-M	Confirmed	
Equipment Requiring Testing or Verification	# of units	Economizer	Supply Fans Variable Flow	Air Dist. Ducts	Enhanced Ventilation	DCV	Supply Fan VFD	Valves Hydronic	Supply Water Temp. Hydronic	Pipe Insulation	Air Economizer Controls	Auto Demand Shed Controls	FDD for VAV Units	FDD for HP Units	TES Systems	Indoor Air Quality (IAQ) Mech. Vent.	CO2/CO	Pass	Fail
Non/Residuse SHW/System	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐
AirSystem 1	4	X	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	☐	☐

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) **§ 140.6**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Location in Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Control Credit Calculation			√ if Acceptance Test Required	Confirmed	
				Watts of Controlled Lighting	Power Adjustment Factor	Control Credit Watts		Pass	Fail
Space 1	Classrooms, Lecture, Training, Vocational Areas	- none specified -	1	0.00	0			☐	☐

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**Multiple entries for an Occupancy Type may be listed in the table as these have been aggregated for Building Stories that have the same floor multiplier.*

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)* **§ 130.0**

Luminaire Schedule (Includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined		Total Number Luminaires	Installed Watts	Confirmed	
			CEC Default from RA8	According to §130.0(c)			Pass	Fail
SCI - 2x4 LED	SCI - 2x4 LED	60	No	Yes	48	2,880	☐	☐

** If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for luminaire Schedule details.*

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES **§ 140.9**

This Section Does Not Apply

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS **§ 140.9**

This Section Does Not Apply

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS **§ 140.9**

This Section Does Not Apply

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS **§ 140.9**

This Section Does Not Apply

T. UNMET LOAD HOURS

This Section Does Not Apply

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWh)	Proposed Design Site (kWh)	Margin (kWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	23.1	14.0	9.1	–	–	–
Space Cooling	23.1	27.3	-4.2	–	–	–
Indoor Fans	19.2	11.5	7.7	–	–	–

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –

Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance

(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

See Tables G, and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed	
		Pass	Fail
Plumbing	☒ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-23-H - HERS verified central systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	☐	☐
	☐ NRCI-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☒ NRCI-LTI-01-E - For all buildings	☐	☐
	☒ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☒ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	☐	☐
	☒ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☒ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E- EMCS Lighting Control System	☐	☐
	☒ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E – Sign Lighting	☐	☐
Electrical	☒ NRCI-ELC-01-E- Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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A. PROJECT GENERAL INFORMATION

1.	Project Location (city)	CZ 15 - WORST CASE	
2.	CA Zip Code		
3.	Climate Zone	15	
4.	Total Conditioned Floor Area in Scope	4,320 ft²	
5.	Total Unconditioned Floor Area	0 ft²	
6.	Total # of Stories (Habitable Above Grade)	1	
7.	Total # of dwelling units	0	
8.	Standards Version	Compliance2016	
9.	Compliance Software (version)	CBECC-Com 2016.3.1 (R68)	
10.	Weather File	PALM SPRINGS-INTL_722868_CZ0010.epw	
11.	Building Orientation (deg)	02 165 deg	
12.	Permitted Scope of Work	NewComplete	
13.	Building Type(s)	Nonresidential	
14	Gas Type	NaturalGas	

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² -yr) **§ 140.1**

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	5.51	9.96	-4.45	-80.8%
Space Cooling	190.92	222.78	-31.86	-16.7%
Indoor Fans	104.05	62.08	41.97	40.3%
Heat Rejection	–	–	–	–
Pumps & Misc.	–	–	–	–
Domestic Hot Water	11.52	11.52	–	0.0%
Indoor Lighting	58.59	32.55	26.04	44.4%
COMPLIANCE TOTAL	**370.59**	**338.89**	**31.70**	**8.6%**
Receptacle	64.30	64.30	0.0	0.0%
Process	–	–	–	–
Other Ltg	–	–	–	–
TOTAL	**434.89**	**403.19**	**31.7**	**7.3%**

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A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) **§ 140.6**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Location in Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Control Credit Calculation			√ if Acceptance Test Required	Confirmed	
				Watts of Controlled Lighting	Power Adjustment Factor	Control Credit Watts		Pass	Fail
Space 1	Classrooms, Lecture, Training, Vocational Areas	- none specified -	1		0.00	0		☐	☐

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) **§ 130.1**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)

Location in Building	Type/Description of Lighting Control: (i.e., occupancy sensor, dimming, automatic daylighting control, etc.)	# of Units	Standards Compliance (√ all that apply or "L" if exempt)				In Acceptance Test Required?	Confirmed	
			§130.1(a)	§130.1(b)	§130.1(c)	§130.1(d)	§130.1(e)	Pass	Fail
Space 1	ROOM LIGHTING CONTROL SYSTEM	1	v	v	v	v	E	Yes	☐

§130.1(a) = Manual-on control; §130.1(b) = Multi-Level; §130.1(c) = Auto Shut Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) **§ 140.6**

General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) **§ 140.6-D**

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) **§ 140.6(c) 3H**

Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed	
							Pass	Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Note: Tailored Method for special function Areas is not currently implemented

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U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWh)	Proposed Design Site (kWh)	Margin (kWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Heat Rejection	–	–	–	–	–	–
Pumps & Misc.	–	–	–	–	–	–
Domestic Hot Water	–	–	–	34.4	34.4	0.0
Indoor Lighting	10.6	5.9	4.7	–	–	–
COMPLIANCE TOTAL	**52.9**	**47.2**	**5.7**	**48.4**	**34.4**	**14.0**
Receptacle	11.4	11.4	0.0	–	–	–
Process	–	–	–	–	–	–
Other Ltg	–	–	–	–	–	–
TOTAL	**64.3**	**58.6**	**5.7**	**48.4**	**34.4**	**14.0**

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –

Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance

(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

See Tables G, and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed	
		Pass	Fail
Covered Process	☐ NRCI-PRC-01-E Refrigerated Warehouse	☐	☐
	☐ NRCA-PRC-01-F- Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F- Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F- Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

				Confirmed	
1.	Total Conditioned Floor Area	4,320 ft²	5. Number of Floors Above Grade	1	
2.	Total Unconditioned Floor Area	0 ft²	6. Number of Floors Below Grade	0	
3.	Addition Conditioned Floor Area	0 ft²			
4.	Addition Unconditioned Floor Area	0 ft²			

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	756 ft²	64 ft²	08.5%	☐	☐
East Wall	660 ft²	32 ft²	04.8%	☐	☐
South Wall	756 ft²	64 ft²	08.5%	☐	☐
West Wall	660 ft²	32 ft²	04.8%	☐	☐
Total	**2,832 ft²**	**192 ft²**	**06.8%**	☐	☐
Roof	4,320 ft²	0 ft²	00.0%	☐	☐

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C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Indoor Fans: Check envelope and mechanical
2nd	Indoor Lighting: Check lighting
3rd	Heat Rejection: Check envelope and mechanical
4th	Pumps & Misc.: Check mechanical
5th	Domestic Hot Water: Check mechanical
6th	Space Heating: Check envelope and mechanical
7th	Space Cooling: Check envelope and mechanical

Compliance Margin By Energy Component (from Table B column 4)

D. EXCEPTIONAL CONDITIONS

The Building does not include service water heating. Verify that service water heating is not required and is not included in the design.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided

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F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

Rectangular Spaces								
Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Confirmed	
						Pass	Fail
NA	NA	NA	NA	NA	NA	☐	☐

Non-Rectangular Spaces

This Section Does Not Apply

Note: All applicable spaces are listed under the Non-Rectangular Spaces table

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)

1. Wall Display	2. Combined Floor Display and Task Lighting	3. Combined Ornamental and Special Effects Lighting	4. Very Valuable Merchandise	Allowed Watts	Confirmed	
					Pass	Fail
0	0	0	0	0	☐	☐

1. Wall Display

This Section Does Not Apply

2. Floor Display and Task Lighting

This Section Does Not Apply

3. Combined Ornamental and Special Effects Lighting

This Section Does Not Apply

4. Very Valuable Merchandise

This Section Does Not Apply

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H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E) **§ 130.4**

Declaration of Required Acceptance Certificates (NRCA) –Acceptance Certificates that must be verified in the field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		Indoor		Outdoor		Confirmed	
		NRCA-LTI-02-A	NRCA-LTI-03-A	NRCA-LTI-04-A	NRCA-LTO-02-A		
Equipment Requiring Testing or Verification	# of units	Occ Sensors / Auto Time Switch	Auto Daylight	Demand Responsive	Outdoor Controls	Pass	Fail
Occupant Sensors		☒	☐	☐	☐	☐	☐
Automatic Time Switch		☒	☐	☐	☐	☐	☐
Automatic Daylighting		☐	☒	☐	☐	☐	☐
Demand Responsive		☐	☐	☐	☐	☐	☐
Outdoor Controls		☐	☐	☐	☒	☐	☐

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NRCC-PRF-ENV-DETAILS -SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS

1.	2.	3.	4.	Confirmed	
Surface Name	Surface Type	Description of Assembly Layers	Notes	Pass	Fail
2x4 T111 WALL	ExteriorWall	Wood siding - 1/2 in. Vapor semi-permeable film - 1/16 in. Wood Framed wall, 16in. OC, 3.5in., R-13 Gypsum Board - 1/2 in. Acoustic Tile - 1/2 in.	–	☐	☐
SCI POWD FLOOR	ExteriorFloor	Air - Cavity - Wall Roof Ceiling - 4 in. or more Metal Framed floor, 24in. OC, 7.25in., R-19 Plywood - 1 in. Carpet - 3/4 in.	–	☐	☐
SCI MTL ROOF	Roof	Metal Standing Seam - 1/16 in. Building Paper - 1/16 in. Plywood - 3/4 in. Metal Framed roof, 24in. OC, 9.25in., R-30 Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.	–	☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

This Section Does Not Apply

C. OPAQUE DOOR SUMMARY

1.	2.	3.	4.	5.	6.	7.	Confirmed	
Opaque Door Assembly Name / Tag or Ldr.	Door Type	Certification Method	Operation	Area	Overall U-factor	Status*	Pass	Fail
SCI - STD HM DOOR	MetalUninsulatedSlidingLayerDoor	DefaultPerformance	Swinging	42	1.450	N	☐	☐

** Status: N - New, A – Altered, E – Existing*

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M. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more Information) **§ 110.1 / § 110.2**

Dry System Equipment * (Fan & Economizer info included below in Table N) | Confirmed

1.	2.	3.	4.	5.	6.	7.	8.	9.		10.	11.	Confirmed	
Equip Name	Equip Type	System Type (Simple † or Complex ††)	Qty.	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtu/h)	Total Cooling Output (kBtu/h)	Efficiency		Acceptance Testing Required? (Y/N)	Economizer	Pass	Fail
								Cooling	Heating				
AirSystem 1	SPVHP (Packaged/2Pskid)	Simple	4	56	Yes	17	58	EER-10.0	HSPF-7.7	Yes	N	☐	☐

** Dry system Equipment includes Packaged DX air conditioning units, heat pumps, etc.*

† Simple Systems must complete NRCC-MCH-04-E commissioning design review form

†† Complex Systems must complete NRCC-MCH-04-E commissioning design review form

‡ A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS

§ Status: N - New, A – Altered, E – Existing

Wet System Equipment Section Does Not Apply

Discrepancy between modeled and designed equipment sizing? (If "Yes", see Table F. "Additional Remarks" for an explanation) | No

N. ECONOMIZER & FAN SYSTEMS SUMMARY§ **§ 140.4** | Confirmed

1.	2.	3.						4.				5.	Confirmed	
Equip Name	Outside Air	Supply Fan						Return Fan				Economizer Type (if present)	Pass	Fail
	CFM	CFM	HP	BHP	TSP (Inch WC)	Control		CFM	HP	BHP	TSP (Inch WC)	Control		
AirSystem 1	486	1700	0.750	0.675	1.26	ConstantVolume		NA	NA	NA	NA	NoEconomizer	☐	☐

§ Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.

Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Forms
☒	☐	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	☐	☐	Commissioning: §120.8 Complex Systems	NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CXR-01 / 02 / 04 / 05-E
☒	☐	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E	☒	☐	Electrical: §130.5	NRCC-ELC-01-E
☐	☒	Lighting (Sign) §140.8	NRCC-LTS-01-E	☒	☐	Solar Ready: §110.10	NRCC-SRA-01 / 02-E
☐	☒	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E	☐	☐	Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-02-E NRCC-PRC-03-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E

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Compliance Scope:	NewCoplete	Input File Name:	72x60 - WD FLR - WALL HVAC.cbd16

NRCC-PRF-MCH-DETAILS -SECTION START-

A. MECHANICAL VENTILATION AND REHEAT *(Adapted from 2016-NRCC-MCH-03-E)* | Confirmed

| 1. DESIGN AIR FLOWS | | | | | | | | | | | | | | 2. VENTILATION (§ 120.1) | | | | | | | | | | | | | |

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F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)

This Section Does Not Apply

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS *(Adapted from 2016-NRCC-MCH-01-E)* **§ RA4**

Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		MCH-04-A	MCH-04-B	MCH-04-C	MCH-04-D	MCH-04-E	MCH-04-F	MCH-04-G	MCH-04-H	MCH-04-I	MCH-04-J	MCH-04-K	MCH-04-L	MCH-04-M	MCH-04-N	Confirmed	
Equipment Requiring Testing or Verification	# of units	Economizer HP	Supply Fans Variable Flow Control	Air Side Econs	Ventilation Controls	DCV	Supply Fan VFD	Valve Schedule	Supply Water Temp Reset Controls	Hydronic Variable Flow Control	Multiple Boiler Control	Air Cooled Condenser Control	Boiler Efficiency	Chiller Efficiency	Condensing Hydronic Heating Boiler	Pass	Fail
Non-Residuse SHW System	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	□	□
AirSystem 1	4	X	X	–	–	–	–	–	–	–	–	–	–	–	–	□	□

H. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

NRCC-PRF-LTI-DETAILS -SECTION START-

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) **§ 140.6**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Location in Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Control Credit Calculation			# if Acceptance Test Required	Confirmed	
				Watts of Controlled Lighting	Power Adjustment Factor	Control Credit Watts		Pass	Fail
Space 1	Classrooms, Lecture, Training, Vocational Areas	- none specified -	1		0.00	0		□	□

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**Multiple entries for an Occupancy Type may be listed in the table as these have been aggregated for Building Stories that have the same floor multiplier.*

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E)* **§ 130.0**

Luminaire Schedule (Includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined		Total Number Luminaires	Installed Watts	Confirmed	
			CEC Default from RA8	According to §130.0(c)			Pass	Fail
SCI - 2x4 LED		60	No	Yes	48	2,880	□	□

** If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for luminaire Schedule details.*

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES **§ 140.9**

This Section Does Not Apply

S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS **§ 140.9**

This Section Does Not Apply

S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS **§ 140.9**

This Section Does Not Apply

S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS **§ 140.9**

This Section Does Not Apply

T. UNMET LOAD HOURS

This Section Does Not Apply

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	18.5	18.5	108.4	–	–	–
Space Cooling	3.8	5.8	-2.0	–	–	–
Indoor Fans	23.4	12.7	10.7	–	–	–

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –

Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed	
		Pass	Fail
Plumbing	☒ NRCI-PLB-01-E - For all buildings with Mechanical systems	□	□
	□ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	□	□
	□ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	□	□
	□ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	□	□
	□ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	□	□
	□ NRCV-PLB-21-H - HERS verified central systems in high-rise residential, hotel/motel application.	□	□
	□ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	□	□
	□ NRCI-STH-01-E - Any solar water heating	□	□
Indoor Lighting	☒ NRCI-LTI-01-E - For all buildings	□	□
	☒ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	□	□
	□ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	□	□
	□ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	□	□
	□ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	□	□
	□ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	□	□
	☒ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	□	□
	☒ NRCA-LTI-03-A - Automatic daylighting controls	□	□
	□ NRCA-LTI-04-A - Demand responsive lighting controls	□	□
Outdoor Lighting	☒ NRCI-LTO-01-E – Outdoor Lighting	□	□
	□ NRCI-LTO-02-E- EMCS Lighting Control System	□	□
	☒ NRCA-LTO-02-A - Outdoor Lighting Control	□	□
Sign Lighting	□ NRCI-LTS-01-E – Sign Lighting	□	□
Electrical	☒ NRCI-ELC-01-E- Electrical Power Distribution	□	□
Photovoltaic	□ NRCI-SPV-01-E Photovoltaic Systems	□	□

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A. PROJECT GENERAL INFORMATION

1.	Project Location (city)	CZ 16 - WORST CASE	
2.	CA Zip Code		
3.	Climate Zone	16	
4.	Total conditioned Floor Area in Scope	4,320 ft²	
5.	Total Unconditioned Floor Area	0 ft²	
6.	Total # of Stories (Habitable Above Grade)	1	
7.	Total # of dwelling units	0	
8.	Standards Version	Compliance2016	
9.	Compliance Software (version)	CBECC-Com 2016.2.1 (B68)	
10.	Weather File	BLUE-CANYON_725845_CZ2010.epw	
11.	Building Orientation (deg)	02 165 deg	
12.	Permitted Scope of Work	NewComplete	
13.	Building Type(s)	Nonresidential	
14.	Gas Types	NaturalGas	

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² -yr) **§ 140.1**

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	40.31	72.39	-32.08	-79.6%
Space Cooling	51.12	69.31	-18.19	-35.6%
Indoor Fans	123.38	65.79	57.59	46.7%
Heat Rejection	–	–	–	–
Pumps & Misc.	–	–	–	–
Domestic Hot Water	14.24	14.24	–	0.0%
Indoor Lighting	58.59	32.55	26.04	44.4%
COMPLIANCE TOTAL	**287.64**	**254.28**	**33.36**	**11.6%**
Receptacle	64.46	64.46	0.0	0.0%
Process	–	–	–	–
Other Ltg	–	–	–	–
TOTAL	**352.12**	**318.76**	**33.4**	**9.5%**

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

PRF FORMS
ZONE 16 WORST CASE
72' x 60'

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 24175 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS

1	
2	
3	
4	
5	
6	
7	
8	

SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:

DRAWN BY:

SCALE: AS NOTED

DATE: 8-10-18

P.C. SHEET NUMBER

A-0.5F

PHASE III

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Compliance Scope:	NewComplete	Input File Name:	72x60 - WO FLR - WALL HVAC.cibd16

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) **§ 140.6**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

Location in Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., partial on occupancy sensor, manual dimming, etc.)	# of Units	Control Credit Calculation			# if Acceptance Test Required	Confirmed	
				Watts of Controlled Lighting	Power Adjustment Factor	Control Credit Watts		Pass	Fail
Space 1	Classrooms, Lecture, Training, Vocational Areas	- none specified -	1		0.00	0		□	□

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) **§ 130.1**

Lighting Control Credits Schedule (Includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)

Location in Building	Occupancy Type (must meet requirements of Table 140.6-A)	Type/Description of Lighting Control (i.e., occupancy sensor, dimming, automatic daylighting control, etc.)	# of Units	Standards Compliance (√ all that apply or "E" if exempt)				In Acceptance Test Required?	Confirmed	
				§130.1(a)	§130.1(b)	§130.1(c)	§130.1(d)	§130.1(e)	Pass	Fail
Space 1		ROOM LIGHTING SYSTEM	1	v	v	v	v	E	Yes	□

§130.1(a) = Manual-on control; §130.1(b) = Multi-Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) **§ 140.6**

General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA
Additional "use it or lose it" (See Table G)	0
Total watts	**0**

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) **§ 140.6-D**

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) **§ 140.6(c) 3H**

Room Number	Primary Function Area	Illuminance Value (LUX)	Room Cavity Ratio (Table G)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed	
							Pass	Fail
NA	NA		NA	NA	NA	NA	□	□

Note: Tailored Method for Special Function Areas is not currently implemented

Project Name:	04-116719 - 72x60 - WO FLR - WALL HVAC - CZ 16	NRCC-PRF-01-E	Page 12 of 19
Project Address:	CZ 16 - WORST CASE	Calculation Date/Time:	15:34, Fri, Aug 10, 2018
Compliance Scope:	NewComplete	Input File Name:	72x60 - WO FLR - WALL HVAC.cibd16

U. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Heat Rejection	–	–	–	–	–	–
Pumps & Misc.	–	–	–	–	–	–
Domestic Hot Water	–	–	–	42.7	42.7	0.0
Indoor Lighting	10.6	5.9	4.7	–	–	–
COMPLIANCE TOTAL	**37.8**	**42.9**	**-5.1**	**151.1**	**42.7**	**108.4**
Receptacle	11.4	11.4	0.0	–	–	–
Process	–	–	–	–	–	–
Other Ltg	–	–	–	–	–	–
TOTAL	**49.2**	**54.3**	**-5.1**	**151.1**	**42.7**	**108.4**

Project Name:	04-116719 - 72x60 - WO FLR - WALL HVAC - CZ 16	NRCC-PRF-01-E	Page 7 of 19
Project Address:	CZ 16 - WORST CASE	Calculation Date/Time:	15:34, Fri, Aug 10, 2018
Compliance Scope:	NewComplete	Input File Name:	72x60 - WO FLR - WALL HVAC.cibd16

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –

Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms *(required for submittal)*	Confirmed	
		Pass	Fail
Covered Process	□ NRCI-PRC-01-E Refrigerated Warehouse	□	□
	□ NRCA-PRC-01-F- Compressed Air Systems	□	□
	□ NRCA-PRC-02-F- Kitchen Exhaust	□	□
	□ NRCA-PRC-03-F- Garage Exhaust	□	□
	□ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls	□	□
	□ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls	□	□
	□ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls	□	□
	□ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compressor	□	□
	□ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System	□	□

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

				Confirmed	
1.	Total Conditioned Floor Area	4,320 ft²	5. Number of Floors Above Grade	1	
2.	Total Unconditioned Floor Area	0 ft²	6. Number of Floors Below Grade	0	
3.	Addition Conditioned Floor Area	0 ft²			
4.	Addition Unconditioned Floor Area	0 ft²			

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio	Pass	Fail
North Wall	754 ft²	64 ft²	08.5%	□	□
East Wall	660 ft²	32 ft²	04.8%	□	□
South Wall	756 ft²	64 ft²	08.5%	□	□
West Wall	660 ft²	32 ft²	04.8%	□	□
Total	**2,832 ft²**	**192 ft²**	**06.8%**	□	□
Roof	4,320 ft²	0 ft²	00.0%	□	□

Project Name:	04-116719 - 72x60 - WO FLR - WALL HVAC - CZ 16	NRCC-PRF-01-E	Page 2 of 19
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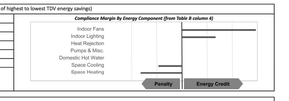
Compliance Scope:	NewComplete	Input File Name:	72x60 - WO FLR - WALL HVAC.cibd16

C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Indoor Fans: Check envelope and mechanical
2nd	Indoor Lighting: Check lighting
3rd	Heat Rejection: Check envelope and mechanical
4th	Pumps & Misc.: Check mechanical
5th	Domestic Hot Water: Check mechanical
6th	Space Cooling: Check envelope and mechanical
7th	Space Heating: Check envelope and mechanical

Compliance Margin By Energy Component (from Table B column 4)



D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided

Project Name:	04-116719 - 72x60 - WO FLR - WALL HVAC - CZ 16	NRCC-PRF-01-E	Page 19 of 19
Project Address:	CZ 16 - WORST CASE	Calculation Date/Time:	15:34, Fri, Aug 10, 2018
Compliance Scope:	NewComplete	Input File Name:	72x60 - WO FLR - WALL HVAC.cibd16

F. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

Rectangular Spaces							Confirmed	
Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR		Pass	Fail
NA	NA	NA	NA	NA	NA		□	□

Non-Rectangular Spaces

This Section Does Not Apply

Note: All applicable spaces are listed under the Non-Rectangular Spaces table

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)

1. Wall Display	2. Combined Floor Display and Task Lighting	3. Combined Ornamental and Special Effects Lighting	4. Very Valuable Merchandise	Allowed Watts	Confirmed	
					Pass	Fail
0	0	0	0	0	□	□

5. Wall Display

This Section Does Not Apply

6. Floor Display and Task Lighting

This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting

This Section Does Not Apply

8. Very Valuable Merchandise

This Section Does Not Apply

Project Name:	04-116719 - 72x60 - WO FLR - WALL HVAC - CZ 16	NRCC-PRF-01-E	Page 13 of 19
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Compliance Scope:	NewComplete	Input File Name:	72x60 - WO FLR - WALL HVAC.cibd16

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT **§ 10-103**

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: SILVER CREEK	Signature:
Company: SILVER CREEK	
Address:	Signature Date: 8.10.18
City/State/Zip:	CEA Identification (if applicable):
Phone: 951-943-5393	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1	I hereby affirm that I am an eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name: JOHN STARLIN	Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed: 8.10.18
City/State/Zip: PERRIS CA 92571	Declaration Statement Type: 1
Phone: 951-943-5393	Title: Engineer License #: 2475
Responsible Lighting Designer Name: JOHN STARLIN	Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed: 8.10.18
City/State/Zip: PERRIS CA 92571	Declaration Statement Type: 1
Phone: 951-943-5393	Title: Engineer License #: 2475
Responsible Mechanical Designer Name: JOHN STARLIN	Signature:
Company: SILVER CREEK	
Address: 2830 BARRETT AVE	Date Signed: 8.10.18
City/State/Zip: PERRIS CA 92571	Declaration Statement Type: 1
Phone: 951-943-5393	Title: Engineer License #: 2475

Project Name:	04-116719 - 72x60 - WO FLR - WALL HVAC - CZ 16	NRCC-PRF-01-E	Page 8 of 19
Project Address:	CZ 16 - WORST CASE	Calculation Date/Time:	15:34, Fri, Aug 10, 2018
Compliance Scope:	NewComplete	Input File Name:	72x60 - WO FLR - WALL HVAC.cibd16

J. FENESTRATION ASSEMBLY SUMMARY **§ 110.6** Confirmed

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method*	4. Assembly Method	5. Area ft²	6. Overall U-Factor	7. Overall SHGC	8. Overall VT	9. Exempt	Pass	Fail
SCI - NFC 6200 - SLIDER - 5860 / CLR	Vertical/Fenestration Operable/Window N/A	NFRC Rated	Manufactured	192	0.51	0.36	0.50	N	□	□

** Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*

*** Status: N - New, A – Altered, E – Existing*

Taking compliance credit for fenestration shading devices? (If "Yes", see NRCC-PRF-ENV-DETAILS for more information) No

K. OPAQUE SURFACE ASSEMBLY SUMMARY **§ 120.7/ § 140.3** Confirmed

1. Surface Name	2. Surface Type	3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. U-Factor / Z-Factor / C-Factor	8. Exempt	Pass	Fail
2x4 T111 WALL	ExteriorWall	2832	Wood	13	NA	U-Factor: 0.082	N	□	□
SCI PLYWO FLOOR	ExteriorFloor	4320	Metal	19	NA	U-Factor: 0.066	N	□	□
SCI MTL ROOF	Roof	4320	Metal	30	NA	U-Factor: 0.055	N	□	□

** Status: N - New, A – Altered, E – Existing*

L. ROOFING PRODUCT SUMMARY **§ 140.3** Confirmed

1. Product Type	2. Product Density (lb/ft³)	3. Aged Solar Reflectance	4. Thermal Emittance	5. SRI	6. Cool Roof Credit	7. Roofing Product Description	Pass	Fail
SCI MTL ROOF	5.55781	0.08	0.75	NA	No	NA	□	□

Project Name:	04-116719 - 72x60 - WO FLR - WALL HVAC - CZ 16	NRCC-PRF-01-E	Page 3 of 19
Project Address:	CZ 16 - WORST CASE	Calculation Date/Time:	15:34, Fri, Aug 10, 2018
Compliance Scope:	NewComplete	Input File Name:	72x60 - WO FLR - WALL HVAC.cibd16

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA" is not in project
For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path	Compliance Forms *(required for submittal)*	Location of Mandatory Notes on Plans
Envelope	☒ Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☒ Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	□ NA		
Mechanical	☒ Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☒ Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	□ NA		
Domestic Hot Water	□ Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	☒ Prescriptive	NRCC-PLB-01-E	
	☒ NA		
Lighting (Indoor Conditioned)	☒ Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	SHEET A-0.7
	□ Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	□ NA		
Covered Process: Commercial Kitchens	□ Performance	02 (section of the NRCC-PRF-01-E)	
	□ Prescriptive	NRCC-PRC-01/ 03-E	
	☒ NA		
Covered Process: Computer Rooms	□ Performance	53 (section of the NRCC-PRF-01-E)	
	□ Prescriptive	NRCC-PRC-01/ 04-E	
	☒ NA		
Covered Process: Laboratory Exhaust	□ Performance	54 (section of the NRCC-PRF-01-E)	
	□ Prescriptive	NRCC-PRC-01/ 09-E	
	☒ NA		

Project Name:	04-116719 - 72x60 - WO FLR - WALL HVAC - CZ 16	NRCC-PRF-01-E	Page 18 of 19
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Compliance Scope:	NewComplete	Input File Name:	72x60 - WO FLR - WALL HVAC.cibd16

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E) **§ 130.4**

Declaration of Required Acceptance Certificates (NRCA) –Acceptance Certificates that must be verified in the field. (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify).

Test Description		Indoor		Outdoor		Confirmed	
		NRCA-LTI-02-A	NRCA-LTI-03-A	NRCA-LTI-04-A	NRCA-LTO-02-A	Pass	Fail
Equipment Requiring Testing or Verification	# of units	Occ Sensors / Auto Time Switch	Auto Daylight	Demand Responsive	Outdoor Controls		
Occupant Sensors		☒	□	□	□	□	□
Automatic Time Switch		☒	□	□	□	□	□
Automatic Daylighting		□	☒	□	□	□	□
Demand Responsive		□	□	□	□	□	□
Outdoor Controls		□	□	□	☒	□	□

| Project Name: | 04-116719 - 72x60 - WO FLR - WALL HVAC -

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Cutoff	Field Inspector	
01	02	03	04		05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default Input Watt	How wattage was determined: According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (03 x 05)	Primary Function area in which these luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
	LED Wallpack	30	☐	☑	1	30	Entry Door	UH:		
								UL:		
								FVH:	○	○
								BVH:		
								FH:		
								BH:		
			☐	☐		0		UH:		
								UL:		
								FVH:	○	○
								BVH:		
								FH:		
								BH:		
			☐	☐		0		UH:		
								UL:		
								FVH:	○	○
								BVH:		
								FH:		
								BH:		
	INSTALLED WATTS PAGE TOTAL:					30	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E; Page 1			30

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ryan McIntosh	Documentation Author Signature: Ryan E McIntosh (Digitally signed by Ryan E McIntosh; DN: cn=Ryan E McIntosh, o=Stantec Engineering, ou=Architecture - Energy Engineering, email=rmcintosh@stantec.com, c=US; Date: 2018.06.19 14:06:10 -07'00')
Company: Silver Creek	Signature Date: 9.30.17
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: John Starlin	Responsible Designer Signature: John W Starlin (Digitally signed by John W Starlin; DN: cn=John W Starlin, o=Silver Creek Inc, ou, email=jstarlin@silver-creek.net, c=US; Date: 2018.06.25 11:46:10 -07'00')
Company : Silver Creek	Date Signed: 6.25.18
Address:	License: 2475
City/State/Zip:	Phone:

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 1 of 4)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

A. General Information

Project Address:	Total Illuminated Hardscape Area:

Phase of Construction: ☑ New Construction ☐ Addition ☐ Alteration

Outdoor Lighting Zone (LZ) ☐ LZ-1 ☐ LZ-2 ☑ LZ-3 ☐ LZ-4

I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

B. Lighting Compliance Documents (check box for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

☑	NRCC-LTO-01-E	Certificate of Compliance
☑	NRCC-LTO-02-E	Outdoor Lighting Controls Certificate of Compliance
☑	NRCC-LTO-03-E	Outdoor Lighting Power Allowance Certificate of Compliance
☐	NRCC-LTO-04-E	Outdoor Lighting Existing Conditions Certificate of Compliance

C. Summary of Allowed Outdoor Lighting Power — Watts

01	**Sum Total ALLOWED** Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2.	30
	Complies ONLY if **Installed** (Box 02) ≤ **Allowed** (Box 01)	
02	**Sum Total INSTALLED** Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3.	30

D. Declaration of Required Installation Certificates

Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☑ NRCI-LTO-01-E - Must be submitted for all buildings	☐ Field Inspector
☑ NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector

E. Declaration of Required Certificates of Acceptance

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☑ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.	☐ Field Inspector

F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 2 of 4)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

CERTIFICATE OF COMPLIANCE, OUTDOOR LIGHTING

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 3 of 4
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

C. Voltage Drop

Check all boxes below if he electrical power distribution system is in compliance with Section 130.5(c).

		Enforcement Agency Check that the system complies
☑	The electrical power distribution system meets the voltage drop requirement of Section 130.5(c). The maximum combined voltage drop on feeder conductors and branch circuit conductors to the farthest connected load or outlet, do not exceed 5%.	
☐	Voltage drop calculation documents showing compliance to Section 130.5(c) are submitted as part of the compliance document submittal.	☐

D. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles

Check one or more boxes below for applicable requirements of Section 130.5(d) for the electrical power distribution system.

		Field Inspector Check that the system complies
☐	The control is capable of automatically shutting OFF the controlled receptacles when the space is typically unoccupied, either at the receptacle or circuit level. For the automatic time switch control, it incorporates an override control that allows the controlled receptacle to remain ON for no more than 2 hours when an override is initiated and an automatic holiday "shut-OFF" feature that turns OFF all loads for at least 24 hours and then resumes the normally scheduled operation. Countdown timer switches are not be used to comply with the automatic time switch control requirements. The controls meet the requirement of Section 130.5(d)1.	☐
☐	There is at least one controlled receptacle within 6 ft from each uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.	☐
☐	There are installed split wired receptacles with at least one controlled and one uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.	☐
☐	Permanent and durable marking for controlled receptacles or circuits to differentiate them from uncontrolled receptacles or circuits is provided. The markings meet the requirement of Section 130.5(d)3.	☐
☐	For hotel and motel guest rooms, there are controlled receptacles for at least one-half of the 120-volt receptacles in each guest room. Electric circuits serving controlled receptacles in guestrooms are installed to have captive key controls, occupancy sensing controls, or automatic controls so the power is switched off no longer than 30 minutes after the guest room has been vacated. The receptacles meet the requirement of Section 130.5(d)4.	☐
☐	Receptacles that are only for the following purposes are excepted from Section 130.5(d): - Receptacles specifically for refrigerators and water dispensers in kitchen areas. - Receptacles located a minimum of six ft above the floor that are specifically for clocks. - Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms. - Receptacles on circuits rated more than 20 amperes. - Receptacles connected to an uninterruptible power supply (UPS) that are intended to be in continuous use, 24 hours per day/365 days per year, and are marked to differentiate them from other uncontrolled receptacles or circuits.	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 1 of 4
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

General Information

Project Address:	Climate Zone:	Conditioned Floor Area : 960 Unconditioned Floor Area :

Building Type: ☑ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel

☑ Schools ☑ Relocatable Public Schools ☐ Conditioned Spaces ☐ Unconditioned Spaces

Phase of Construction: ☑ New Construction ☐ Addition ☐ Alteration

In the table below identify all applicable construction documents that specify the requirements for the scope of responsibility reported by this certificate. Use additional pages as needed to list all construction documents related to compliance of Section 130.5.

Document Number	Document Title/Descriptions (include description information for Table or Schedule if it contains compliance information)	Document Sheet # or Page #	Indicate which subsection of Section 130.5 is related to the document (e.g. 130.5(a) for service electrical metering)
PC Drawings			

Add Row Remove Last

A. Service Electrical Metering

Check one of the three boxes below if the electrical power distribution system is in compliance with Section 130.5(a).

☑ For newly installed electrical service in newly constructed buildings, Service Electrical Metering is required according to Section 130.5(a). *Fill out Column 1 through 6 of table below.*

☐ For new or replacement electrical service equipment in existing buildings, Service Electrical Metering is required according to Section 141.0(b)2PI. *Fill out Column 1 through 6 of table below.*

☐ EXCEPTION to Electrical Service Metering: Service or feeder for which the utility company provides a metering system that indicates instantaneous kW demand and kWh for a utility-defined period. *Fill out Column 1, 2 and 6 of table below with the compliance information.*

Fill out a separate line for each electrical service that is connected to the building.

Electrical Service Schedule	Electrical Service Rating	Metering Capabilities (check all that are present)				Exception to 130.5 (a)	Field Inspector
01	02	03	04	05	06	07	08
Electrical Service Designation/ Location/Description	kVA	Instantaneous (at the time) kW	Historical peak (kW)	Tracking kWh for a user-definable period	kWh per rate period	Utility metering system	Check that the metering complies
Building Feeder	49	☑	☐	☑	☐	☐	☐

Add Row Remove Last

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 4 of 4
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ryan McIntosh	Documentation Author Signature: Ryan E McIntosh (Digitally signed by Ryan E McIntosh; DN: cn=Ryan E McIntosh, o=Stantec Engineering, ou=Architecture - Energy Engineering, email=rmcintosh@stantec.com, c=US; Date: 2018.06.19 14:06:10 -07'00')
Company: Silver Creek	Signature Date: 9.30.17
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: John Starlin	Responsible Designer Signature: John W Starlin (Digitally signed by John W Starlin; DN: cn=John W Starlin, o=Silver Creek Inc, ou, email=jstarlin@silver-creek.net, c=US; Date: 2018.06.25 11:46:10 -07'00')
Company: Silver Creek	Date Signed: 6.25.18
Address:	License: 2475
City/State/Zip:	Phone:

STATE OF CALIFORNIA
Electrical Power Distribution
CEC-NRCC-ELC-01-E (Revised 01/16)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-01-E
Electrical Power Distribution	Page 2 of 4
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

B. Separation of Electrical Circuits for Electrical Energy Monitoring

Check all boxes below if the electrical power distribution system is in compliance with Section 130.5(b).

☐ The electrical power distribution system meets the separation of electrical circuits for electrical energy monitoring requirement of Section 130.5(b). The electrical power distribution systems is designed so that measurement devices can monitor the electrical energy usage of load types according to TABLE 130.5-B.

☐ Describe the electrical power distribution system installed and the compliance method chosen in meeting the requirement of Section 130.5(b). Use the space below to include the information. Examples of compliance methods are detailed in Nonresidential Compliance Manual Chapter 8.

Fill out Column 1 thru 3 with the compliance information.

General Information	Electrical Power Distribution System information and Method of compliance	Electrical Service Rating	Enforcement Agency
01	02	03	04
Electrical Service Designation/Location/Description	Describe the electrical power distribution system installed and the compliance method used	kVA	Check that the system complies
NA	NA - System is less than 50kVA	49	☐

Field Inspector Notes:

APPROVED
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP # 04-116719 DATE 10.05.18

CERTIFICATE OF COMPLIANCE, ELECTRICAL POWER DISTRIBUTION

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DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CERTIFICATE OF COMPLIANCE FORMS

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2475
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2013 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS

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SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER

A-0.6A

PHASE III

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 1 of 3)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

A. Mandatory Outdoor Lighting Control Declaration Statements

Check all that apply:

- ☑ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- ☑ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
- ☑ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(d).
- ☐ Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5.
- ☐ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- ☐ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight and Glare requirements in accordance with Section 130.2(b)
- ☐ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF in accordance with Section 130.2(c)1.
- ☑ All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2.
- ☑ All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3.
- ☐ For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)4.
- ☐ For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c)5
- ☐ Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting controls, shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 2 of 3)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist

Outdoor Lighting Control Schedule			Standards Complying With (✓ all that apply, or leave empty if Exempted)						✓ If Acceptance Test Required	Field Inspector	
01	02	03	04	05	06	07	08	09	10	11	
Location and Application of Luminaires Being Controlled	Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor photocontrol, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control)	# of Units	§130.2(a)	§130.2(c)1	§130.2(c)2	§130.2(c)3	§130.2(c)4	§130.2(c)5		Pass	Fail
Entry Door	Wall Pack	1		•	•	•			☐	○	○
									☐	○	○
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STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 3 of 3)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ryan Mcintosh	Documentation Author Signature: Ryan E McIntosh (Digitally signed by Ryan E McIntosh. DN: cn=Ryan E McIntosh, o=Silvercreek Industries, ou=Engineering, email=ryanmcintosh@silvercreek.net, c=US. Date: 2018.06.25 11:52:07 -07'00')
Company: Silver Creek	Signature Date: 9.30.17
Address:	CEA Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
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Responsible Designer Name: John Starlin	Responsible Designer Signature: John W Starlin (Digitally signed by John W Starlin. DN: cn=John W Starlin, o=Silver Creek Industries, ou=Engineering, email=johnstarlin@silver-creek.net, c=US. Date: 2018.06.25 11:52:07 -07'00')
Company : Silver Creek	Date Signed: 6.25.18
Address:	License: 2475
City/State/Zip:	Phone:

CERTIFICATE OF COMPLIANCE, OUTDOOR LIGHTING CONTROLS

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
CEC-NRCC-PLB-01-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PLB-01-E
Water Heating System General Information	(Page 1 of 2)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

A. GENERAL INFORMATION/SYSTEM INFORMATION		
01	Water Heater System Name:	WH-1
02	Water Heater System Configuration:	
03	Water Heater System Type:	Domestic Hot Water
04	Building Type:	Nonresidential
05	Total Number of Water Heaters in Systems:	1
06	Central DHW Distribution Type:	
07	Dwelling Unit DHW Distribution Type:	

B. WATER HEATER INFORMATION Each water heater type requires a separate compliance document.		
01	Water Heater Type:	Instantaneous Small - Electric
02	Fuel Type:	Electricity
03	Manufacture Name:	EEMAX
04	Model Number:	SP 3012
05	Number of Identical Water Heaters:	1
06	Installed Water Heater System Efficiency:	.93
07	Required Minimum Efficiency:	.93
08	Standby Loss Percent or Standby Loss Total:	
09	Rated Input:	3 KW
10	Pilot Energy:	
11	Water Heater Tank Storage Volume:	
12	Exterior Insulation on Water Heater:	
13	Volume of Supplemental Storage:	
14	Internal Insulation on Supplemental Storage:	
15	Exterior Insulation on Supplemental Storage:	

C. PLUMBING COMPLIANCE FORMS & WORKSHEETS

Check box if worksheet is included.

For detailed instructions on the use of this and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual
Note: The Enforcement Agency may require all compliance documents to be incorporated onto the building plans.

YES	NO	Doc/Worksheet #	Title
⦿	○	NRCC-PLB-01-E	Certificate of Compliance, Declaration. Required on plans for all submittals.
○	○	NRCI-PLB-01-E	Certificate of Installation. Required on plans for all submittals.
○	○	NRCI-PLB-02-E	Certificate of Installation, required on central systems in high-rise residential, hotel/motel application.
○	○	NRCI-PLB-03-E	Certificate of Installation, required on single dwelling unit systems in high-rise residential, hotel/motel application.
○	○	NRCI-PLB-21-H	Certificate of Installation, required on HERS verified central systems in high-rise residential, hotel/motel application.
○	○	NRCI-PLB-22-H	Certificate of Installation, required on HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.
○	○	NRCI-STH-01-E	Certificate of Installation, required on any solar water heating

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
CEC-NRCC-PLB-01-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PLB-01-E
Water Heating System General Information	(Page 2 of 2)
Project Name: SILVER CREEK PC - TYPICAL CLASSROOM	Date Prepared: 9.30.17

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ryan Mcintosh	Documentation Author Signature: Ryan E McIntosh (Digitally signed by Ryan E McIntosh. DN: cn=Ryan E McIntosh, o=Silvercreek Industries, ou=Engineering, email=ryanmcintosh@silvercreek.net, c=US. Date: 2018.06.25 11:52:07 -07'00')
Company: Silver Creek	Signature Date: 9.30.17
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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Company: Silver Creek	Date Signed: 6.25.18
Address:	License: 2475
City/State/Zip:	Phone:

APPROVED
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP # 04-116719 DATE 10/05/18

CERTIFICATE OF COMPLIANCE, WATER HEATER SYSTEM

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVERCREEK INDUSTRIES, INC (SCI Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURN
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ORIGINATING WITH SCI Inc S

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DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CERTIFICATE OF COMPLIANCE FORMS

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2475
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS

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SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER
A-0.6B

PHASE III

24x60 BUILDING - DEFAULT ROOF

WOOD FLOOR + WALL MOUNT HEATPUMP

ZONE 14 - PALMDALE

Rotation	STANDARD TDV	PROPOSED TDV	COMPLIES / FAIL	MARGIN %	
30	345.65	309.16	COMPLIES	10.6%	
75	330.46	307.31	COMPLIES	7.0%	
120	356.94	314.2	COMPLIES	12.0%	
165	363.98	319.65	COMPLIES	12.3%	
210	360.29	316.43	COMPLIES	12.2%	
255	331.22	309.21	COMPLIES	**6.6%**	RUN-CODE: 2018-08-10 16:03:31
300	345.83	310.2	COMPLIES	10.3%	
345	350.14	310.66	COMPLIES	11.3%	
			RANGE:	5.5%	

ZONE 15 - PALM SPRINGS

Rotation	STANDARD TDV	PROPOSED TDV	COMPLIES / FAIL	MARGIN %	
30	411.03	365.77	COMPLIES	11.0%	
75	400.86	363.81	COMPLIES	9.2%	
120	405.44	369.58	COMPLIES	**8.8%**	RUN-CODE: 2018-08-10 15:57:35
165	417.67	374.23	COMPLIES	10.4%	
210	413.37	369.8	COMPLIES	10.5%	
255	399.36	361.62	COMPLIES	9.5%	
300	408.38	363.03	COMPLIES	11.1%	
345	414.1	365.55	COMPLIES	11.7%	
			RANGE:	2.9%	

ZONE 16 - BLUE CANYON

Rotation	STANDARD TDV	PROPOSED TDV	COMPLIES / FAIL	MARGIN %	
30	327.44	278.72	COMPLIES	14.9%	
75	313.67	276.97	COMPLIES	11.7%	
120	320.14	282.35	COMPLIES	11.8%	
165	323.36	286.82	COMPLIES	**11.3%**	RUN-CODE: 2018-08-10 15:36:27
210	321.84	284.97	COMPLIES	11.5%	
255	316.13	279.99	COMPLIES	11.4%	
300	329.3	280.3	COMPLIES	14.9%	
345	334.74	280.38	COMPLIES	16.2%	
			RANGE:	4.9%	

72x60 BUILDING - DEFAULT ROOF

WOOD FLOOR + WALL MOUNT HEATPUMP

ZONE 14 - PALMDALE

Rotation	STANDARD TDV	PROPOSED TDV	COMPLIES / FAIL	MARGIN %	
30	313.6	287.21	COMPLIES	8.4%	
75	313.16	287.49	COMPLIES	8.2%	
120	313.86	287.47	COMPLIES	8.4%	
165	311.52	286.35	COMPLIES	**8.1%**	RUN-CODE: 2018-08-10 16:03:06
210	313.6	287.21	COMPLIES	8.4%	
255	313.16	287.49	COMPLIES	8.2%	
300	313.86	287.47	COMPLIES	8.4%	
345	311.52	286.35	COMPLIES	**8.1%**	
			RANGE:	0.3%	

ZONE 15 - PALM SPRINGS

Rotation	STANDARD TDV	PROPOSED TDV	COMPLIES / FAIL	MARGIN %	
30	372.66	339.67	COMPLIES	8.9%	
75	372.27	339.94	COMPLIES	8.7%	
120	372.9	339.97	COMPLIES	8.8%	
165	370.59	338.89	COMPLIES	**8.6%**	RUN-CODE: 2018-08-10 15:56:32
210	372.66	339.67	COMPLIES	8.9%	
255	372.27	339.94	COMPLIES	8.7%	
300	372.9	339.97	COMPLIES	8.8%	
345	370.59	338.89	COMPLIES	**8.6%**	
			RANGE:	0.3%	

ZONE 16 - BLUE CANYON

Rotation	STANDARD TDV	PROPOSED TDV	COMPLIES / FAIL	MARGIN %	
30	290.38	254.95	COMPLIES	12.2%	
75	289.62	255.06	COMPLIES	11.9%	
120	290.43	255.07	COMPLIES	12.2%	
165	287.64	254.28	COMPLIES	**11.6%**	RUN-CODE: 2018-08-10 15:36:29
210	290.38	254.95	COMPLIES	12.2%	
255	289.62	255.06	COMPLIES	11.9%	
300	290.43	255.07	COMPLIES	12.2%	
345	287.64	254.28	COMPLIES	**11.6%**	
			RANGE:	0.6%	

CALIFORNIA ENERGY CODE - MANDATORY MEASURES

INTERIOR LIGHTING MANDATORY MEASURES:

- ALL LIGHTING CONTROL DEVICES AND SYSTEMS, BALLASTS, AND LUMINAIRES SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
- ALL LUMINAIRES SHALL BE FACTORY-LABELED PER SECTION 130.0(c).
- EACH ROOM AND AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL BE EQUIPPED WITH MANUAL ON AND OFF LIGHTING CONTROLS PER SECTION 130.1(a).
- ALL ROOMS AND AREAS 100 SF OR GREATER AND WITH MORE THAN 0.5 WATT PER SF OF LIGHTING LOAD WITH 2 OR MORE LUMINAIRES SHALL BE CONTROLLED WITH MULTI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM. CONTROL STEPS SHALL MEET REQUIREMENTS IN TABLE 130.1-A.
- PROVIDE VACANCY SENSOR OR PARTIAL-ON OCCUPANCY SENSOR IN ALL ROOMS.
- ALL GENERAL LIGHTING IN PRIMARY SIDELIT DAYLIT ZONES AND SKYLIT DAYLIT ZONES IN ENCLOSED SPACES WITH 120 WATTS, OR MORE IN COMBINED PRIMARY/SKYLIT ZONES AND 24 SF, OR MORE OF FENESTRATION, SHALL BE CONTROLLED WITH AUTOMATIC DAYLIGHTING CONTROLS PER SECTION 130.1(d).

OUTDOOR LIGHTING MANDATORY MEASURES:

- ALL LIGHTING CONTROL DEVICES AND SYSTEMS, BALLASTS, AND LUMINAIRES SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
- ALL LUMINAIRES SHALL BE FACTORY-LABELED PER SECTION 130.0(c).
- ALL OUTDOOR LIGHTING SHALL BE OPERATED WITH CONTROLS WHICH AUTOMATICALLY TURNS OFF OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE PER SECTION 130.2(c).
- ALL OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS WHICH ARE CONTROLLED BY AN AUTOMATIC SCHEDULING CONTROL PER SECTION 130.2(c).

SPACE CONDITIONING EQUIPMENT MANDATORY MEASURES:

- ALL SPACE CONDITIONING EQUIPMENT SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.2.
- MECHANICAL VENTILATION SHALL BE PROVIDED PER SECTION 120.1.
- ALL SPACE CONDITIONING CONTROLS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 120.2.
- ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 120.4.

BUILDING ENVELOPE MANDATORY MEASURES:

- ALL FENESTRATION PRODUCTS AND EXTERIOR DOORS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.6.
- ALL JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED TO LIMIT INFILTRATION AND EXFILTRATION PER SECTION 110.7.
- ALL INSULATION, ROOFING PRODUCTS AND RADIANT BARRIERS SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.8.
- THE WEIGHTED AVERAGE U-FACTOR OF THE ROOF ASSEMLY SHALL NOT EXCEED 0.075 PER SECTION 120.7(a).
- THE WEIGHTED AVERAGE U-FACTOR OF THE EXTERIOR WALL ASSEMBLY SHALL NOT EXCEED 0.110 PER SECTION 120.7(b).
- THE WEIGHTED AVERAGE U-FACTOR OF THE FLOOR ASSEMBLY SHALL NOT EXCEED 0.071 PER SECTION 120.7(c).

SOLAR READY AND ELECTRICAL DISTRIBUTION MANDATORY MEASURES:

- A SOLAR ZONE SHALL BE PROVIDED ON THE ROOF OF THE BUILDING PER SECTION 110.10(b).
- A PATHWAY SHALL BE PROVIDED FROM THE SOLAR ZONE TO AN INDICATED LOCATION SUITABLE FOR THE FUTURE INSTALLATION OF INVERTERS AND METERING EQUIPMENT PER SECTION 110.10(c).
- ELECTRICAL SERVICE METERING SHALL UTILIZE A PERMANENTLY INSTALLED METERING SYSTEM PER SECTION 130.5(a).
- SEPERATION OF ELECTRICAL CIRCUITS SHALL NOT BE REQUIRED WHERE ELECTRICAL SERVICE OR FEEDER IS RATED AT 50 KVA OR LESS PER SECTION 130.5(b).
- THE VOLTAGE DROP TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5% PER SECTION 130.5(c).

24' (min) - 72' (max) x60' BUILDING - WALL MOUNTED HEAT PUMP

	ALL ZONES (MIN.DESIGN)
ZONE #	1 - 16
Wall (min. R value)	13 (U = 0.082)
Floor (min. R value)	19 (U = 0.066)
Roof (min. R value)	30 (U = 0.055)
HVAC	
Max. Tonnage	5 *, **
Min. EER / COP	10 / 3 *
Outside Air	PER MECHANICAL PLAN
Occupancy Sensor	YES
DCV	NO

24' (min) - 72' (max) x60' BUILDING - ROOF MOUNTED HEAT PUMP

	ALL ZONES (MIN.DESIGN)
ZONE #	1 - 16
Wall (min. R value)	13 (U = 0.082)
Floor (min. R value)	19 (U = 0.066)
Roof (min. R value)	30 (U = 0.055)
HVAC	
Max. Tonnage	5 *, **
Min. EER / HSPF	11.5 / 8.0 *
Outside Air	PER MECHANICAL PLAN
Occupancy Sensor	YES
DCV	NO

LEGEND

Occupancy Sensor: Ceiling mounted occupancy sensor with dimming controls. Automatic on for low level lighting only, full by manual activation.
DCV: Demand Control Ventilation

NOTE

Interior lights shall be dimmable LED fixtures, 60 Watts Max per fixtures, 8 fixtures per module (UNO)
Windows shall be IWC 6200 horizontal slider (SB 60 / Clr) or equal, U-Factor - .510 (Max), SHGC = .360 (Max), Visual Transmittance = 0.500 (Min)
Doors shall be hollow metal, uninsulated single layer doors (Min), U-Factor = 1.450 (Max)
Buildings utilizing an exterior wall constructed of steel stud framing shall have min. R4 continuous rigid insulation (EPS or EPX material) on the interior side of the wall.
The roof material used in the design analysis utilizes the default values specified in Section 110.8(i).
Aged solar reflectance of roof finish = 0.08, Aged thermal emittance of roof finish = 0.75
* Space conditioning systems installed on buildings being utilized in climate zone 16 shall utilize a 5kw electric resistance heating strip for supplemental heating.

** HVAC unit tonnage shall not exceed 4 tons when the space served is 720 SF (or less)

APPROVED
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP.# 04-116719 DATE: 10.04.18

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ENERGY CALC'S. VALUES BY ZONE & CALGREEN NOTES

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24075
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC_RM_ FLS_DS_SSR_KER
DATE 10/05/2018

REVISIONS

1	
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SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER

A-0.7

PHASE III

CONSTRUCTION WASTE MANAGEMENT PLAN

A. DEFINITIONS
1. CONSTRUCTION AND DEMOLITION (C&D) WASTE: INCLUDES ALL NON-HAZARDOUS SOLID WASTES RESULTING FROM CONSTRUCTION, REMODELING, ALTERATIONS, REPAIR, AND DEMOLITION. INCLUDES MATERIAL THAT IS RECYCLED, REUSED, SALVAGED OR DISPOSED AS GARBAGE.
2. RECYCLING: THE PROCESS OF SORTING, CLEANING, TREATING, AND RECONSTITUTING MATERIALS FOR THE PURPOSE OF USING THE MATERIAL IN THE MANUFACTURE OF A NEW PRODUCT.
3. CO-MINGLED C&D RECYCLING: THE PROCESS OF COLLECTING MIXED RECYCLABLE MATERIALS IN ONE CONTAINER ON-SITE. THE CONTAINER IS TAKEN TO A MATERIAL RECOVERY FACILITY WHERE MATERIALS ARE SEPARATED FOR RECYCLING.

B. PERFORMANCE REQUIREMENTS
1. GENERAL: WASTE MATERIAL GENERATED DURING PROJECTS SHALL BE RECYCLED OR REUSED WHENEVER PRACTICABLE. DIVERT A MINIMUM OF 90% C&D WASTE, BY WEIGHT, FROM THE LANDFILL BY A CO-MINGLED C&D RECYCLING FACILITY.
   I. C&D WASTE MATERIALS THAT SHALL BE SALVAGED, REUSED OR RECYCLED INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
      CONCRETE, METALS, WINDOW GLASS, WOOD, GYPSUM BOARD, CARPETING AND PAD, CEILING TILES

C. QUALITY ASSURANCE
1. PRECONSTRUCTION CONFERENCE: REVIEW METHODS AND PROCEDURES RELATED TO WASTE MANAGEMENT INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
   I. REVIEW AND DISCUSS WASTE MANAGEMENT PLAN INCLUDING RESPONSIBILITIES OF WASTE MANAGEMENT COORDINATOR.
   II. REVIEW REQUIREMENTS FOR DOCUMENTING QUANTITIES OF EACH TYPE OF MATERIALS THAT WILL BE SALVAGED, RECYCLED OR DISPOSED OF AS WASTE.
   III. REVIEW PROCEDURES FOR PERIODIC WASTE COLLECTION AND TRANSPORTATION TO RECYCLING AND DISPOSAL FACILITIES.
   IV. REVIEW WASTE MANAGEMENT REQUIREMENTS FOR EACH TRADE.

D. WASTE MANAGEMENT PLAN
1. INDENTIFY AND CONTRACT WITH A WASTE MANAGEMENT SERVICES PROVIDER OR ASSIGN RESPONSIBILITY TO INHOUSE WASTE MANAGEMENT PROJECT ADMINISTRATOR
2. RESPONSIBLE PARTY SHALL DEVELOP AND PROVIDE A PLAN WHICH INCLUDES THE FOLLOWING INFORMATION:
   I. TYPES OF C&D WASTE EXPECTED TO BE GENERATED DURING DEMOLITION AND CONSTRUCTION.
   II. PROPOSED METHODS FOR C&D WASTE SALVAGE, REUSE, RECYCLING AND DISPOSAL.
   III. PROPOSED METHODS FOR SALVAGE, REUSE, RECYCLING AND DISPOSAL DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, ONE OR MORE OF THE FOLLOWING:
      A. REQUIRING SUBCONTRACTORS TO TAKE THEIR C&D WASTE TO A RECYCLING FACILITY,
      B. CONTRACTING WITH A RECYCLING HAULER TO HAUL RECYCLABLE C&D WASTE TO AN APPROVED RECYCLING OR MATERIAL RECOVERY FACILITY,
      C. PROCESSING AND REUSING MATERIALS ON-SITE

E. WASTE MANAGEMENT REPORT
1. WASTE MANAGEMENT SERVICES PROVIDER OR ADMINISTRATOR SHALL SUBMIT A CUMULATIVE WASTE MANAGEMENT REPORT ON A REGULAR BASIS WHICH INCLUDES:
   I. A RECORD OF THE TYPE AND QUANTITY, BY WEIGHT, OF EACH MATERIAL SALVAGED, REUSED, RECYCLED OR DISPOSED.
   II. TOTAL QUANTITY OF WASTE RECYCLED AS A PERCENTAGE OF TOTAL WASTE.
   III. DISPOSAL RECEIPTS: COPY OF RECEIPTS ISSUED BY A DISPOSAL FACILITY FOR C&D WASTE THAT IS DISPOSED IN A LANDFILL.
   IV. RECYCLING RECEIPTS: COPY OF RECEIPTS ISSUED BY APPROVED RECYCLING FACILITIES FOR COMINGLED MATERIALS. INCLUDE WEIGHT TICKETS FROM THE RECYCLING HAULER OR MATERIAL RECOVERY FACILITY AND VERIFICATION OF THE RECYCLING RATE FOR CO-MINGLED LOADS AT THE FACILITY.
   V. SALVAGED MATERIALS DOCUMENTATION: TYPES AND QUANTITIES, BY WEIGHT, FOR MATERIALS SALVAGED FOR REUSE ON SITE, SOLD OR DONATED TO A THIRD PARTY.

F. CONSTRUCTION WASTE MANAGEMENT, GENERAL REQUIREMENTS
1. USE DETAILED MATERIAL ESTIMATES TO REDUCE RISK OF UNPLARMED AND POTENTIALLY WASTEFUL CUTS.
2. TO THE GREATEST EXTENT POSSIBLE, INCLUDE IN MATERIAL PURCHASING AGREEMENTS A WASTE REDUCTION PROVISION REQUESTING THAT MATERIALS AND EQUIPMENT BE DELIVERED IN PACKAGING MADE OF RECYCLABLE MATERIAL, THAT THEY REDUCE THE AMOUNT OF PACKAGING, THAT PACKAGING BE TAKEN BACK FOR REUSE OR RECYCLING, AND TO TAKE BACK ALL UNUSED PRODUCT. INSURE THAT SUBCONTRACTORS REQUIRE THE SAME PROVISIONS IN THEIR PURCHASE AGREEMENTS.
3. CONDUCT REGULAR VISUAL INSPECTIONS OF DUMPSTERS AND RECYCLING BINS TO REMOVE CONTAMINANTS.
4. A MINIMUM OF 65% (BY WEIGHT) OF THE NON-HAZARDOUS CONSTRUCTION WASTE SHALL BE RECYCLED AND/OR SALVAGED FOR REUSE.
5. CONSTRUCTION WASTE MATERIALS SHALL BE COLLECTED IN CO-MINGLED CONTAINERS EXCEPT STEEL AND WOOD SHALL BE COLLECTED SEPARATELY.
6. CONSTRUCTION WASTE SHALL BE HAULED, SEPARATED, AND MEASURED BY CR+R (OR AN EQUAL WASTE MANAGEMENT COMPANY). A REPORT SHALL BE PROVIDED INDICATING THE DIVERSION RATE (BY VOLUME).

G. REMOVAL OF CONSTRUCTION WASTE MATERIALS, GENERAL REQUIREMENTS
1. REMOVE C&D WASTE MATERIALS FROM PROJECT SITE ON A REGULAR BASIS. DO NOT ALLOW C&D WASTE TO ACCUMULATE ON-SITE.
2. TRANSPORT C&D WASTE MATERIALS OFF PROPERTY AND LEGALLY DISPOSE OF THEM.
3. BURNING OF C&D WASTE IS NOT PERMITTED.

IEQ PLAN

A. CONSTRUCTION PHASE:
1. FILTERS
   I. ALL MECHANICAL EQUIPMENT WHICH REQUIRES A FILTER SHALL NOT BE OPERATED WITHOUT A FILTER IN PLACE.
   II. ALL FILTERS SHALL HAVE A MERV RATING OF 8 OR GREATER.
   III. A PRESSURE GAUGE SHALL BE INSTALLED AT ALL MECHANICAL EQUIPMENT REQUIRING FILTERS WHICH MEASURES THE PRESSURE DROP ACROSS THE FILTER AND WHICH IS MARKED TO INDICATE WHEN THE FILTER REQUIRES CLEANING OR REPLACEMENT
2. PROTECTION OF MATERIALS
   I. ALL BUILDING MATERIALS SHALL BE PROTECTED FROM WEATHER AND OTHER MOISTURE SOURCES WHEN RECOMMEND BY THE MANUFACTURER.
   II. ANY POROUS MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL NOT BE INSTALLED.
   III. ANY OTHER MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL BE THOROUGHLY CLEAN AND DECONTAMINATED PRIOR TO INSTALLATION.
3. PROTECTION OF INTERIOR ENVIRONMENT
   I. WHENEVER POSSIBLE ALL SANDING, CUTTING GRINDING OR OTHER ACTIVITIES WHICH WILL GENERATE AIRBORNE PARTICLES SHALL BE PERFORMED AWAY FROM THE BUILDING.
   II. WHERE AIRBORNE PARTICLE GENERATING ACTIVITIES CANNOT BE PERFORMED AWAY FROM THE BUILDING PROTECTIVE MEASURES SHALL BE TAKE TO SEAL INTERIOR AREAS TO REDUCE OR ELIMINATE PARTICLE TRANSFER.
   III. ANY TEMPORARILY UNFILLED EXTERIOR OPENINGS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, TO PREVENT THE MOISTURE AND OTHER CONTAMINANTS FROM ENTERING THE BUILDING.
   IV. ALL WELDING SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF EXTERIOR WALLS WHEREVER POSSIBLE.
4. DUCT SYSTEM CONSTRUCTION
   I. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA HV AC DUCT CONSTRUCTION STANDARDS FOR METAL AND FLEXIBLE DUCTWORK.
   II. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS.
   III. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED NFPA 90A & NFPA 90B.
   IV. ONCE INSTALLED ALL OPEN DUCTS AND REGISTERS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, UNTIL THE BUILDING HAS BEEN COMPLETELY INSTALLED AND ENCLOSED AND THE MECHANICAL SYSTEM IS READY TO BE STARTED.
   V. ALL OIL FILM SHALL BE REMOVED FROM DUCTS PRIOR TO INSTALLATION.
   VI. ALL DUST AND DIRT SHALL BE REMOVED FROM BOTH THE INTERIOR AND EXTERIOR OF ALL DUCTS PRIOR TO INSTALLATION.
5. MATERIALS INSTALLATION
   I. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE PROVIDED WHEN MATERIALS WHICH EMIT VOLATILE ORGANIC COMPOUNDS (VOC) ARE INSTALLED.
   II. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE CONTINUED UNTIL SUCH A TIME THAT THE VOC EMISSIONS HAVE DISSIPATED.
   III. ANY TEMPORARY VENTILATION SHALL BE EXHAUSTED TO THE EXTERIOR OF THE BUILDING.
   IV. WHEN TEMPORARY MECHANICAL VENTILATION IS USED A CONSTRUCTION FILTER SHALL BE INSTALLED WITH MERV RATING OF NOT LESS THAN 8. THE CONSTRUCTION FILTER SHALL BE REPLACED PRIOR TO OCCUPANCY.
   V. MATERIALS INSTALLATION SHALL BE SEQUENCED WHENEVER POSSIBLE TO ALLOW FOR THE INSTALLATION OF VOC-EMITTING MATERIALS PRIOR TO THE INSTALLATION OF POROUS AND FIBROUS MATERIALS.
   VI. MATERIALS WHICH EMIT A SIGNIFICANT AMOUNT OF VOCS OR ODORS SHALL BE STORED IN A MANNER WHICH ALLOWS FOR OFF-GASSING, IN A DRY AND WELL VENTILATION AREA, PRIOR TO INSTALLATION.
   VII. CARPETED SURFACES SHALL BE VACUUMED PER THE CRI/GREEN LABEL VACUUM CLEANER PROGRAM REQUIREMENTS AT COMPLETION OF CONSTRUCTION AND PRIOR TO OCCUPANCY.

LOW EMITTING MATERIALS + MOISTURE MANAGEMENT

SEALANTS AND CAULKS
ALL ADHESIVES, SEALANTS AND CAULKS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.1. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO CARPET, RESILIENT AND WOOD FLOORING ADHESIVES; BASE COVE ADHESIVES; CERAMIC TILE ADHESIVES; DRYWALL AND PANEL ADHESIVES; AEROSOL ADHESIVES; ADHESIVE PRIMERS; ACOUSTICAL SEALANTS; FIRE STOP SEALANTS; HVAC DUCT SEALANTS, SEALANT PRIMERS; AND CAULKS.

PAINTS & COATINGS
ALL PAINTS AND ARCHITECTURAL COATINGS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.3. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO SEALERS, STAINS, CLEAR WOOD FINISHES, FLOOR SEALERS AND COATINGS, WATERPROOFING SEALERS, PRIMERS, FLAT PAINTS AND COATINGS, NON-FLAT PAINTS AND COATINGS, AND RUST PREVENTATIVE COATINGS.

RESILIENT FLOORING SYSTEMS
ALL FLOORING SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.6.

COMPOSITE WOOD
ALL OF THE COMPOSITE WOOD PRODUCTS INSTALLED IN THE PROJECT SHALL MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.5. COMPOSITE WOOD PRODUCTS IN THIS CATEGORY ARE DEFINED IN THE CALIFORNIA AIR RESOURCES BOARD (CARE) AIRBORNE TOXIC CONTROL MEASURE (ATCM) TO REDUCE FORMALDEHYDE EMISSIONS FROM COMPOSITE WOOD PRODUCTS (SECTIONS 93120-93120.12, TITLE 17, CALIFORNIA CODE OF REGULATIONS. THE AFFECTED PRODUCTS INCLUDE HARDWOOD PLYWOOD, PLYWOOD WITH DECORATIVE SOFTWOOD VENEER, LAMINATED PRODUCTS WITH A COMPOSITE WOOD CORE OR PLATFORM, PARTICLEBOARD, MEDIUM DENSITY FIBERBOARD (MDF), AND FINISHED GOODS FABRICATED FROM THESE PRODUCTS.

CEILING & WALL SYSTEMS
ALL CEILING AND WALL SYSTEMS INSTALLED IN THE PROJECT'S INTERIOR TOTALING 90% OR MORE OF THE TOTAL AREAS OF SUCH PRODUCTS SHALL MEET THESE REQUIREMENTS. CEILING AND WALL SYSTEMS INCLUDE BUT ARE NOT LIMITED TO CEILING INSULATION INSTALLED WITHIN THE STRUCTURAL ENVELOP, WALL INSULATION, ACOUSTICAL CEILING PANELS, GYPSUM BOARD WALL PANELS, TACKABLE WALL PANELS, AND WALL COVERINGS. CERAMIC TILE AND OTHER ORGANIC-FREE METAL- OR MINERAL-BASED WALL COVERINGS ARE AVAILABLE FOR CREDIT WITHOUT ANY TESTING REQUIREMENTS. SITE APPLIED ADHESIVES AND SEALANTS AND SITE APPLIED PAINTS AND COATINGS ASSOCIATED WITH CEILING AND WALL SYSTEMS ARE TREATED UNDER OPTIONS 1 AND 2, RESPECTIVELY. CEILING AND WALL SYSTEMS SHALL BE TESTED AND EVALUATED FOR EMISSIONS OF VOCS OF CONCERN WITH RESPECT TO CHRONIC INHALATION EXPOSURES FOLLOWING THE SPECIFICATIONS OF THE CDPH STANDARD METHOD V1.1. THE SEPARATE COMPONENTS OR DISTINCT LAYERS OF THESE SYSTEMS SHALL BE MODELED TO THE STANDARD PRACTICE SCHOOL CLASSROOM USING THE CLASSROOM CEILING AREA AND/OR WALL AREA AS APPROPRIATE. FOR SYSTEMS CONSISTING OF MORE THAN ONE DISTINCT LAYER (E.G., WALLS COMPRISED OF INSULATION, WALL PANEL AND WALL COVERING), ALL LAYERS SHALL INDIVIDUALLY MEET THE REQUIREMENTS OF THE STANDARD PRACTICE.

CARPET SYSTEMS
ALL CARPET SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.4. ALL CARPET SHALL BE PER THE CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM OR SHALL BE LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE. ALL CARPET PAD SHALL BE PER THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.

PRIMARY EXTERIOR DOORS
ALL WALL AND FLOOR SURFACES WITHIN 24" OF A PRIMARY EXTERIOR DOOR SHALL BE NON-ABSORBANT. SEE DETAIL A/- FOR TYPICAL FLOOR AND WALL FINISH DIAGRAM.

ALL PRIMARY EXTERIOR DOORS SHALL BE PROTECTED BY AN OVERHANG, AWNING OR SIMILAR ELEMENT NOT LESS THAN 48" IN DEPTH.

OUTDOOR AIR QUALITY

HVAC, REFRIGERATION AND FIRE SUPPRESSION SYSTEMS SHALL NOT CONTAIN CFCs OR HALONS.

ACOUSTICAL CONTROL

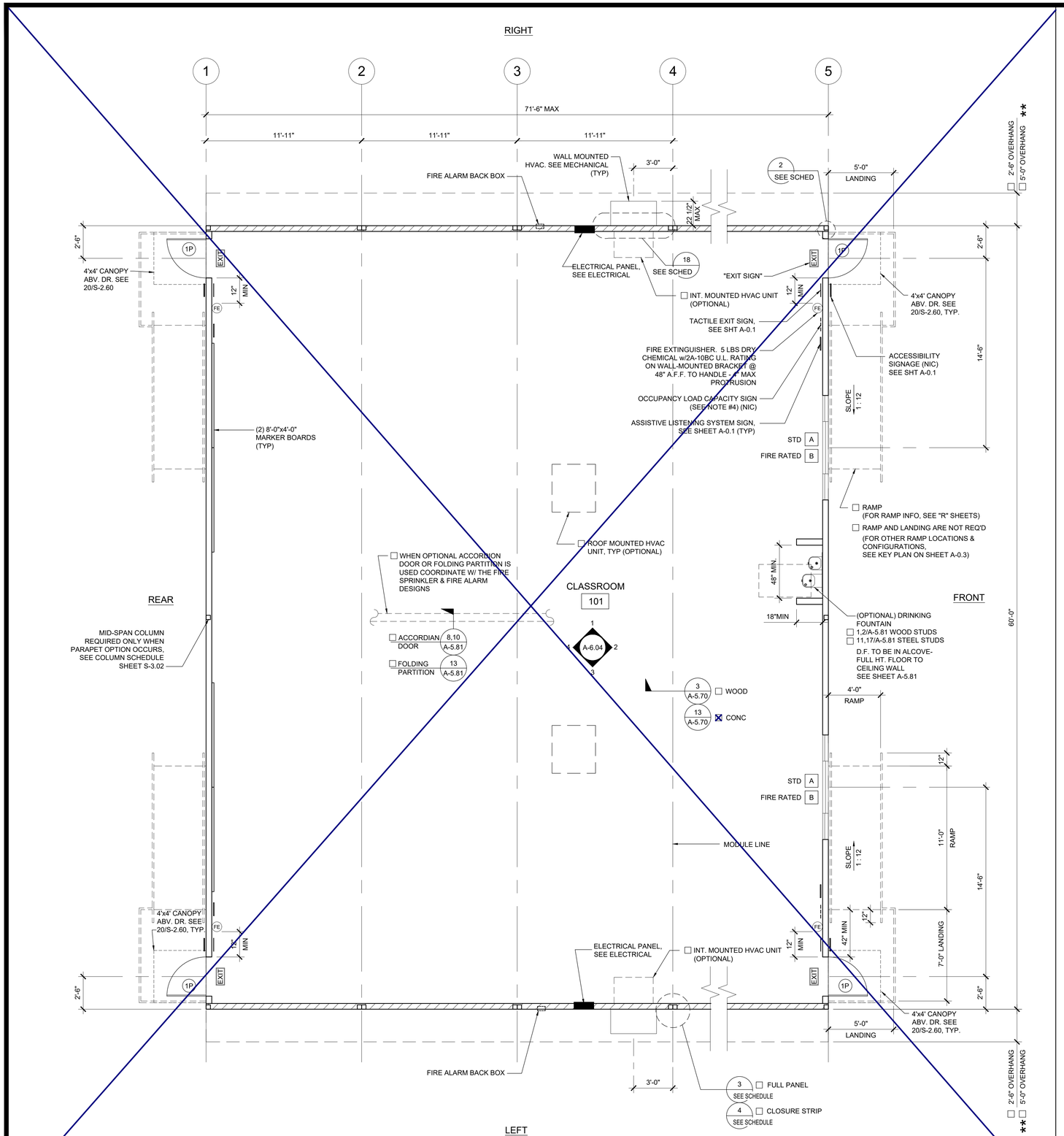
INTERIOR WALLS BETWEEN CLASSROOMS AND ADJACENT SPACES (WHERE OCCURE) SHALL BE FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE AND SHALL HAVE A STC RATING OF NOT LESS THAN 40. ONE OF THE FOLLOWING ASSEMBLY SHALL BE USED:

☐ 2x4 (MIN) STUDS @ 24" O.C. WITH 1 LAYER OF 1/2" GYP BD. EA SIDE OF WALL & 3 1/2" BATT INSULATION, ADDITIONAL LAYERS OF FINISH MATERIAL MAY BE INSTALLED OVER THE GYP BD., GYP BD SHALL BE FASTENED TO THE STUDS w/ 1-1/4" TYPE W SCREWS AT 12" OC, JOINTS SHALL BE STAGGERED (DESIGN #NGC 2012065)(STC-42)

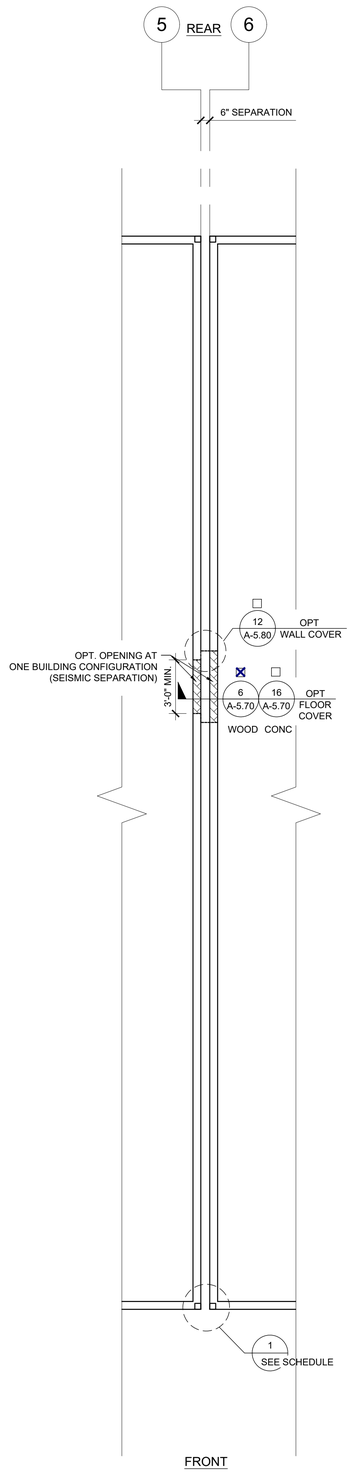
☐ 2x4 (MIN) STUDS @ 16" O.C. WITH 2 LAYER OF 5/8" TYPE "X" GYP BD. EA SIDE OF WALL & 3 1/2" BATT INSULATION, ADDITIONAL LAYERS OF FINISH MATERIAL MAY BE INSTALLED OVER THE GYP BD., BASE LAYER OF GYP BD SHALL BE FASTENED TO THE STUDS w/1-7/8" 6d COATED NAILS AT 6" OC, FACE LAYER OF GYP BD SHALL BE FASTENED TO THE STUDS w/2-3/8" 8d COATED NAILS AT 8" OC, VERTICAL JOINTS SHALL OCCUR OVER A STUD, STAGGER JOINTS EACH LAYER AND EACH SIDE (DESIGN #NGC 2364) (STC-41)

WHEN THE PRE-CHECKED BUILDING IS SITE ADAPTED, THE BUILDINGS CONSTRUCTED PER THIS PC SHALL MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.507.4. THE ARCHITECT OF RECORD FOR THE PROJECT SITE THE PC BUILDING IS TO BE INSTALLED UPON SHALL IDENTIFY ANY ADDITIONAL NOISE TRANSMISSION MEASURES WHICH ARE REQUIRED BASED UPON THE NOISE LEVEL PRESENT AT THE PROJECT SITE. IF NECESSARY EXTERIOR WALL, ROOF AND WINDOW ASSEMBLIES MEETING THE STC AND OR OITC RATINGS SPECIFIED IN SECTIONS 5.507.4.1 + 5.507.4.1.1 SHALL BE UTILIZED.

WHEN THE PC BUILDING IS PLACED ADJACENT TO ANOTHER BUILDING, A SEPARATION (AIR GAP) OF NOT LESS THA



FLOOR PLAN SCALE: 1/4" = 1' - 0" 2



FLOOR SEPARATION PLAN OPTION SCALE: 1/4" = 1' - 0" 1

NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. PER IR 16-1.13 (2.1)
   (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND SPEED, EXPOSURE CATEGORY, AND Kzt = 1.0 2016 CBC, DESIGN CLIMATE ZONE, SEISMIC PARAMETER = S_S .
2. VINYL TACKBOARD INTERIOR FINISH SHALL COMPLY WITH CBC SECTION 803.7.
3. LOCATIONS OF DOORS AND WINDOWS MAY VARY PER JOB. (IF THE NUMBER OF WINDOWS INCREASE, A NEW TITLE 24 SHALL BE SUBMITTED TO DSA.)
4. POSTING OF OCCUPANCY LOAD SIGNS SHALL COMPLY WITH CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 ART. 3.30
5. (NOT IN MODULAR MANUFACTURER'S SCOPE OF WORK)
6. IF BUILDING IS TO BE RELOCATED, SEE RELOCATION SHEETS.
7. FOR BUILDINGS THAT ARE MANUFACTURED IN-PLANT, THE IN-PLANT INSPECTOR IS TO ATTACH A VERIFIED REPORT INSIDE EACH BUILDING, WHICH SHALL INDICATE THE MANUFACTURER'S NAME AND THE SERIAL NUMBER FOR EACH BUILDING MODULE AS WELL AS THE DSA FILE AND APPLICATION NUMBES, PER IR 16-1.13 (2.1)
7. ALL FIXTURE HEIGHTS TO BE VERIFIED PRIOR TO CONSTRUCTION.
8. INTERIOR WALLS MAY BE ADDED TO FLOOR PLAN. SEE STRUCTURAL
9. FOR CASEWORK, TEACHER WALL, OR TV BLOCKING OPTIONS, SEE SHEET A-5.80
10. INTERIOR WALLS BETWEEN CLASSROOMS AND ADJACENT SPACES (WHERE OCCURS) SHALL BE FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE AND SHALL HAVE A STC RATING OF NOT LESS THAN 40. SEE SHEET A-0.7 FOR WALL ASSEMBLY.

DETAIL SCHEDULE

FINISH:	SHEET #:
☐ SIDING OVER WOOD STUDS	A-5.50
☒ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

FIRE PROTECTION:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

WALL LEGEND

NOMINAL 4" WALL STUD ☒
NOMINAL 6" WALL STUD ☒
NOMINAL 8" WALL STUD ☐

A WINDOW PER SCHEDULE SHEET A-0.2
(#) DOOR PER SCHEDULE SHEET A-0.2

NOTE:
IF PARAPET IS USED & HIGHER THAN 18", END WALLS MUST BE 2x6 @ 24" O.C.

THIS PLAN MAY INCLUDE THE VARIOUS EXERCISABLE OPTIONS APPLICABLE TO THE PC SUCH AS PARTITION WALLS, PLUMBING, ETC. FOR REFERENCE PURPOSES. OPTIONS CAN BE APPLIED AS REQUIRED TO THE PC'S BUILDING SIZES.

SYMBOLS LEGEND

60" CIRCLE CLEAR SPACE
30"x48" CLEAR SPACE

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

FLOOR PLAN
36' TO 72' x 60'

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24075 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS
1
2
3
4
5
6
7
8

SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER
A-1.03

PHASE III

THE DIVISION OF THE STATE ARCHITECT, OFFICE OF REGULATION SERVICES ACCEPTS THE FOLLOWING DIMENSIONS AS ADEQUATELY SERVING THE NEEDS OF CHILDREN IN PROJECTS UNDER THEIR JURISDICTION. THESE DIMENSIONS ARE BASED ON CBC TABLE 11B-604.9 SUGGESTED DIMENSIONS FOR SERVING CHILDREN AGES 3 TO 12.

ACCESSIBILITY DIMENSIONS	11B-604.9 SUGGESTED DIMS			
	ADULT	AGES 9 THROUGH 12	AGES 5 THROUGH 8	AGES 3 AND 4
TOILET CENTERING FROM WALL	17" - 18"	15" - 18"	12" - 15"	12"
TOILET SEAT HEIGHT (DIM TO TOP OF SEAT)	17" - 19"	15" - 17"	12" - 15"	11" - 13"
GRAB BAR HEIGHT (TO TOP)	33" - 36"	25" - 27"	20" - 25"	18" - 20"
TOILET PAPER IN FRONT OF TOILET	7" - 9"	7" - 9"	7" - 9"	7" - 9"
NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX.	12" MAX.	N/A	N/A
MIRROR HEIGHT (TO BOTTOM OF GLASS)	40" MAX.	40" MAX.	36" MAX.	32" MAX.
DISPENSER HEIGHT	19" MIN.	17" - 19"	14" - 17"	14"
LAVATORY/SINK TOP HEIGHT	34" MAX.	31" MAX.	31" MAX.	24" MAX.
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	24" MIN.	SIDE APPROACH
URINAL LIP HEIGHT	17" MAX.	17" MAX.	15" MAX	13" MIN.
URINAL FLUSH HANDLE HEIGHT	44" MAX.	44" MAX.	37" MAX. *	32" MAX *
DRINKING FOUNTAIN BUBBLER HT. (LOW)	36" MAX.	30" MAX.	30" MAX.	30" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	SIDE APPROACH	SIDE APPROACH	SIDE APPROACH
RAMP/STAIR HANDRAIL HEIGHT (TO TOP)	34" - 38"	34" - 38"	34" - 38"	34" - 38"

STANDARD DIMENSIONS	ALTERNATE HEIGHT (DIMS)			
	ADULT	AGES 9 THROUGH 12	AGES 5 THROUGH 8	AGES 3 AND 4
TOILET CENTERING FROM WALL/PARTITION	15" MIN	15" MIN	15" MIN	15" MIN
TOILET SEAT HEIGHT/DIM TO TOP OF SEAT	15"	15"	15"	15"
TOILET CLEARANCE/FRONT	24"	24"	24"	24"
URINAL LIP HEIGHT	24"	24"	18"	16"
URINAL CENTER FROM WALL/PARTITION	12"	12"	12"	12"

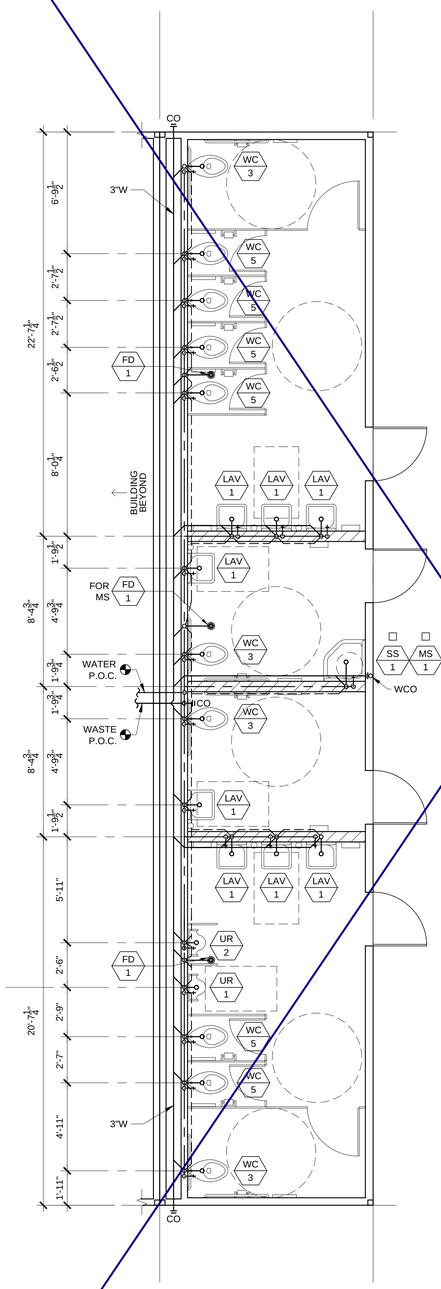
PLUMBING ACCESSORIES (REF. ONLY-MODELS FURNISHED AND INSTALLED BY DISTRICT U.N.O.)

- A — SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX. PROJECTION
- B — PAPER TOWEL DISPENSER/TRASH BIN COMBO: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30x48 CLEAR SPACE OF FIXTURE
- C — TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION
- D — TOILET SEAT DISPENSER: SURFACE MOUNTED
- ★ 44" MAX. PER CODE

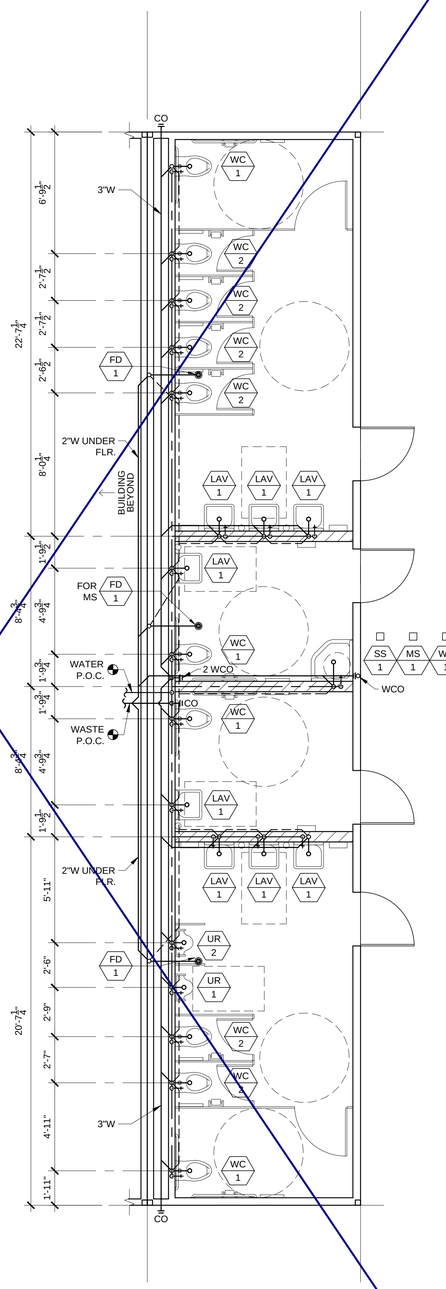
PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL)
WC 1	[AGE 5 TO ADULT] WATER CLOSET WALL MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD PF1731 WALL (1.28 GPF) ALT: AMERICAN STD 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER
WC 2	[AGE 5 TO ADULT] WATER CLOSET WALL MTD/ FLUSH (NON-ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD PF1731 WALL (1.28 GPF) ALT: AMERICAN STD 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER
WC 3	[ADULT] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO PF1723 (1.28 GPF) ALT: AMERICAN STD 3043.001 "MADERA" 16 3/4" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 10" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
WC 4	[AGE 9-12] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD PF1721 (1.28 GPF) ALT: AMERICAN STANDARD 2234.001 MADERA 15" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
WC 5	[AGE 9 TO ADULT] WATER CLOSET FLOOR MTD/FLUSH (NON-ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD PF1721 (1.28 GPF) ALT: AMERICAN STANDARD 2234.001 MADERA 15" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
WC 6	[AGE 3-4] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE & NON-ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO PF1700BB (1.28 GPF) ALT: AMERICAN STANDARD BABY DEVORO 2282.010 VITREOUS CHINA ELONGATED RIM, 10" ROUGH-IN LOW CONSUMPTION CLOSET BOWL; OLSONITE 12CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSH VALVE
WC 7	[ADULT] WATER CLOSET TANK TYPE (ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO PF9403 (1.28 GPF) ALT: AMERICAN STANDARD ADA 2758.128, 17 HIGH, VITREOUS CHINA ELONGATED RIM, TANK TYPE; 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
WC 8	[AGE 9-12] WATER CLOSET TANK TYPE (ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO STANDARD PF9401 (1.28 GPF) ALT: AMERICAN STANDARD 2832.128, 16" HIGH, VITREOUS CHINA ELONGATED RIM, TANK TYPE; 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
WC 9	[AGE 9 TO ADULT] WATER CLOSET TANK TYPE (NON-ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO STANDARD PF9401 (1.28 GPF) ALT: AMERICAN STANDARD 2832.128, 16" HIGH, VITREOUS CHINA ELONGATED RIM, TANK TYPE; 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
WC 10	[AGE 3-4] WATER CLOSET TANK TYPE (ACCESSIBLE & NON-ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO PF1704BB (1.28 GPF) ALT: AMERICAN STANDARD 2315.016 BABY DEVORO 10" HIGH, 10" ROUGH-IN, VITREOUS CHINA ELONGATED RIM, TANK TYPE; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
WC 11	[AGE 5-8] WATER CLOSET TANK TYPE (ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO PF1704BB (1.28 GPF) ALT: AMERICAN STANDARD 2315.016 BABY DEVORO 10" HIGH, 10" ROUGH-IN, VITREOUS CHINA ELONGATED RIM, TANK TYPE; CHURCH 2L2155T (2" LIFT) SOLID OPEN WHITE ELONG. PLASTIC SEAT
WC 12	[AGE 5-8] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	AMERICAN STANDARD 2599.001 MADERA YOUTH (1.28 GPF) 14" HIGH, VITREOUS CHINA ELONG. RIM, SIPHON JET, 10" ROUGH-IN; OLSONITE 10SSCTFR ELONG. WHITE PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
LAV 1	LAVATORY (ACCESSIBLE)	1/2"	-	2"	1 1/2"	STD: AMERICAN STANDARD 0355.012 LUCERNE ALT: CRANE 1-412V "HARWICH" 20X18" VITREOUS CHINA; JAY R SMITH #722 CONCEALED HANGER; OLYMPIA #6161 SINGLE HANDLE FAUCET (0.5 GPM)
UR 1	URINAL (ACCESSIBLE)	3/4"	-	2"	1 1/2"	STD: PROFLO PF 1815 (0.125 GPF) ALT: AMERICAN STANDARD 6550.005 VITREOUS CHINA, WALL HUNG, SIPHON JET URINAL WITH INTEGRAL TRAP; SLOAN REGAL 186-0.125 LOW CONSUMPTION FLUSHOMETER VALVE
UR 2	URINAL (NON-ACCESSIBLE)	3/4"	-	2"	1 1/2"	STD: PROFLO PF 1815 (0.125 GPF) ALT: AMERICAN STANDARD 6550.005 WASHOUT VITREOUS CHINA, WALL HUNG URINAL WITH INTEGRAL TRAP; SLOAN REGAL 186-0.125 LOW CONSUMPTION FLUSHOMETER VALVE
FD 1	FLOOR DRAIN	-	-	2"	1 1/2"	JAY R SMITH #2005YA-02-P050-NB. FLOOR DRAIN TAPPED FOR PRIMER. 5" NICKEL BRONZE STRAINER W/ 1/4" MAX. GRATE OPENINGS
TP 1	TRAP PRIMER	1/2"	-	-	-	PR-500 WITH 8"X12" LOCKABLE BOX, 1/2" BALL SHUT-OFF VALVE, AND PPP DU-U FRESH WATER DISTRIBUTION SYSTEM
WHA 1	WATER HAMMER ARRESTOR	1"	-	-	-	PPP SC-1000
GB 1	GRAB BAR	-	-	-	-	BOBRICK B-6806-1-1/2 SC STAINLESS STEEL GRAB BAR - SATIN FINISH; 36" LONG ON BACK AND 42" ON SIDE
MR 1	MIRROR	-	-	-	-	SERIES 530 RETURNED MIRRORS STAINLESS STEEL - 18GA 18"X24" - "J" SHEET METAL MANUFACTURED OR APPROVED EQUAL
PAR 1	TOILET PARTITION	-	-	-	-	METAL POWDER COATED
SS 1	SERVICE SINK	1/2"	1/2"	2"	1 1/2"	KOHLER K-6714 "BANNON" 22"X18" CAST IRON, ACID RESISTANT SINK; K-8905-RP "KNOXFORD" FAUCET; K-6672 2" I.P.S. TRAP
MS 1	MOP SINK	1/2"	1/2"	2"	1 1/2"	KOHLER K-6710 "WHITBY" 28"X28" CAST IRON W/ CHIGAGO FAUCET 956-R, 853 WALL HOOK, AND 2" K-9142 STRAINER
CS 1	CLASSROOM SINK (OPTION)	1/2"	1/2"	2"	1 1/2"	JUST CRA-1725-A-GR 17"x25" w/ 4 1/2" BOWL DEPTH, WITH CHICAGO FAUCET #350 AND BUBBLER JSB-10
WH 1	WATER HEATER (OPTION)	3/4"	3/4"	-	-	☐ A.O. SMITH #DEL-6 (6 GALLON) ☐ A.O. SMITH #DEL-10 (10 GALLON)
WH 2	INSTANT WATER HEATER (OPTION)	1/2"	1/2"	-	-	EEMAX #SP3012, 120V, 3.0KW, 25A
DF 1	DRINKING FOUNTAIN	1/2"	-	2"	1 1/2"	HALSEY-TAYLOR / BI-LEVEL HAC8FSBL-Q / COOLING TYPE

** NOTE:
WHERE FLUSH VALVES OR TOILET TANKS CONFLICT WITH THE REAR GRAB BAR, THE 36" REAR GRAB BAR SHALL BE SHIFTED TO THE OPEN SIDE OF THE TOILET AREA WITH 1 1/2" MIN. CLEARANCE FROM FIXTURE OR CONTROL VALVE.



FLOOR MOUNTED SCALE: 1/4" = 1' - 0" 2



WALL MOUNTED SCALE: 1/4" = 1' - 0" 1

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SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:
OPTIONAL RESTROOM END MODULE
PLUMBING PLANS & WATER SUPPLY ISOMETRIC

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
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DATE 10/05/2018

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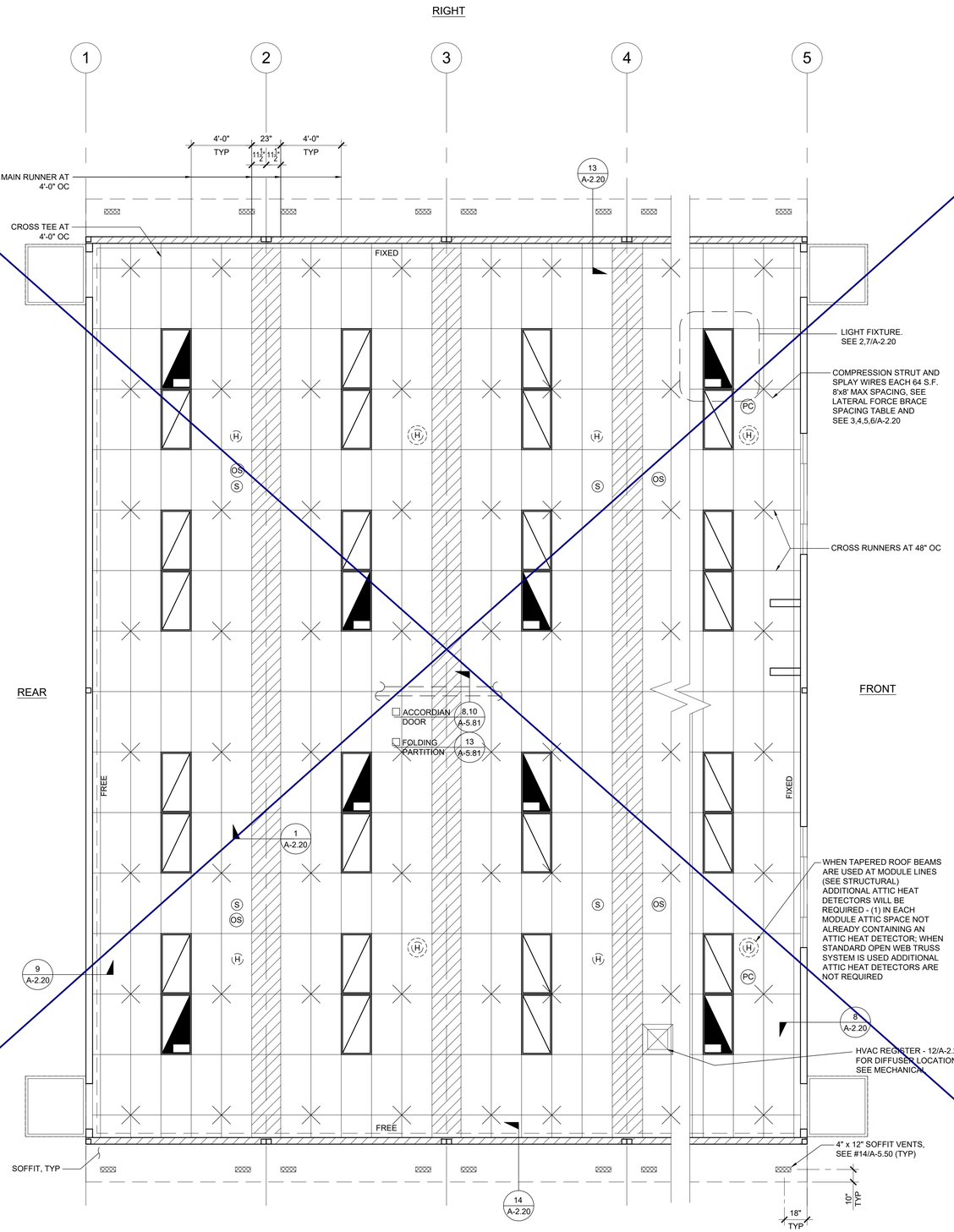
SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER
A-1.05

PHASE III



NOTE:
CEILING TO BE 8'-6" AFF (UNO)

REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"

1

LEGEND

- T-BAR CEILING
- FIELD INSTALLED PANEL AT MODULE LINE
- 2' x 4' RECESSED LIGHT FIXTURE
- "OPTIONAL" 1' x 4' RECESSED LIGHT FIXTURE
- SPLAY WIRE
- RETURN AIR REGISTER
- SUPPLY AIR REGISTER
- CEILING EXHAUST FAN
- (OS) CEILING MOUNTED OCCUPANCY SENSOR
- (PC) CEILING MOUNTED PHOTOCELL
- (S) CEILING MOUNTED SMOKE DETECTOR
- (H) ATTIC MOUNTED HEAT DETECTOR

NOTE:
FOR ALL REFLECTED CEILING NOTES SEE SHEET A-0.1

NOTE:
WHERE OPERABLE PARTITION OCCURS, OCCUPANCY SENSOR SHALL BE DESIGNED AND LOCATED TO PROVIDE FOR EACH AREA CREATED BY THE PARTITION IN A CLOSED POSITION.

T-BAR SCHEDULE

ARMSTRONG PART NUMBERS ICC-ES ESR-1308

MAIN RUNNER: 7301
4' CROSS TEE: XL7341
2' CROSS TEE: XL7328

STANDARD 7/8" WALL ANGLE WITH BERC-2 CLIP (ICC #ESR-1308) 2" WALL ANGLE: 7810 (OPTIONAL)

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SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

REFLECTED CEILING PLAN
36' TO 72' x 60'

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE, 2016 CBC
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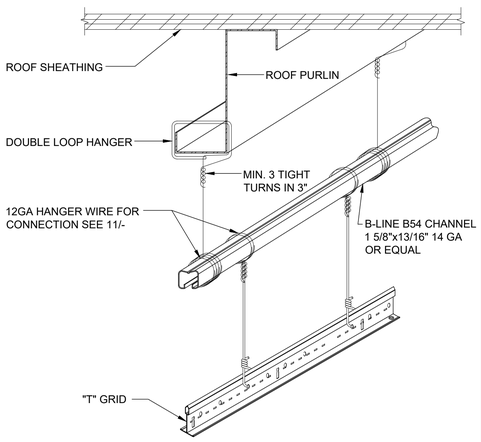
SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

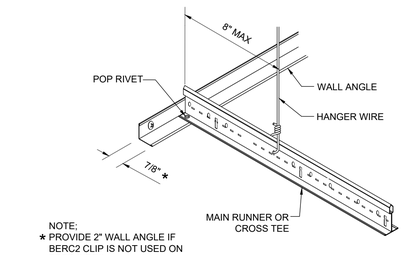
P.C. SHEET NUMBER
A-2.03

PHASE III



NOTE:
LOCATION MAY VARY (SEE NOTE "C" ON SHEET A-0.1)

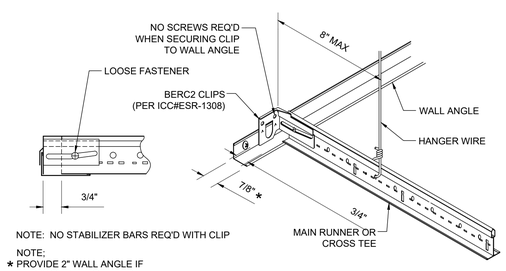
TRAPEZE DETAIL — SCALE : NTS — 17



NOTE;
* PROVIDE 2" WALL ANGLE IF BERC2 CLIP IS NOT USED ON FREE SIDES

REF: A2.01, A2.02, A2.03

FIXED SIDE — SCALE : NTS — 18

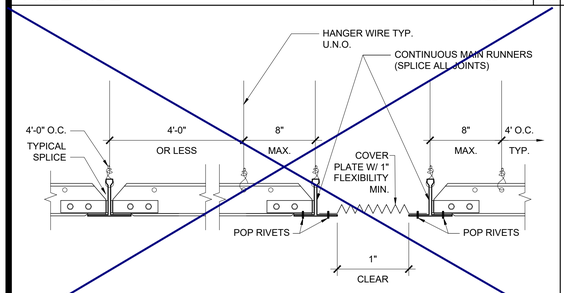


NOTE: NO STABILIZER BARS REQ'D WITH CLIP

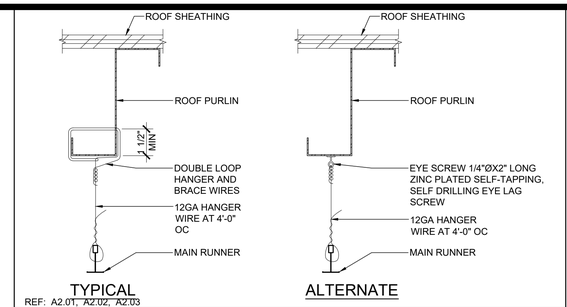
NOTE;
* PROVIDE 2" WALL ANGLE IF BERC2 CLIP IS NOT USED

REF: A2.01, A2.02, A2.03

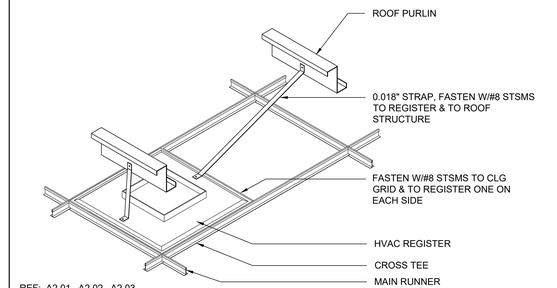
FREE SIDE — SCALE : NTS — 19



GRID SEISMIC SEPARATION JOINT — SCALE : 3"=1'-0" — 20

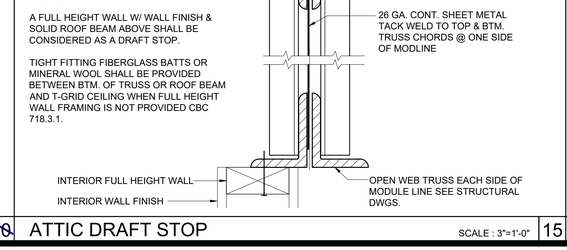


HANGER WIRE DETAIL — SCALE : 3"=1'-0" — 11



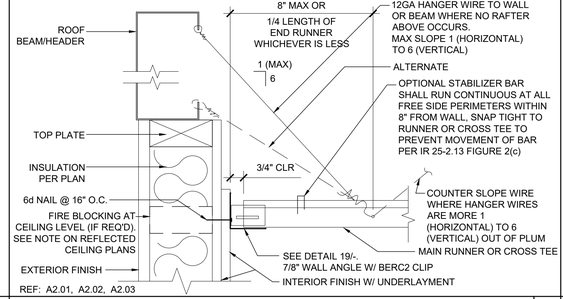
REF: A2.01, A2.02, A2.03

HVAC REGISTER MOUNTING — SCALE : NTS — 12



REF: A2.01, A2.02, A2.03

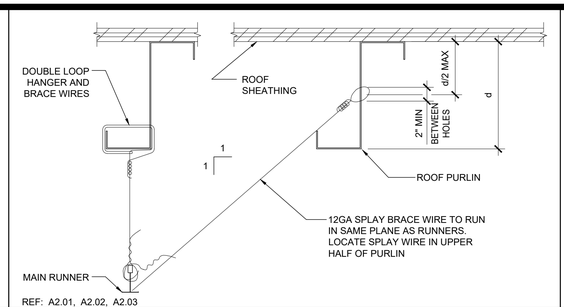
HANGER WIRE - FIXED SIDE (ENDWALL) — SCALE : 3"=1'-0" — 13



REF: A2.01, A2.02, A2.03

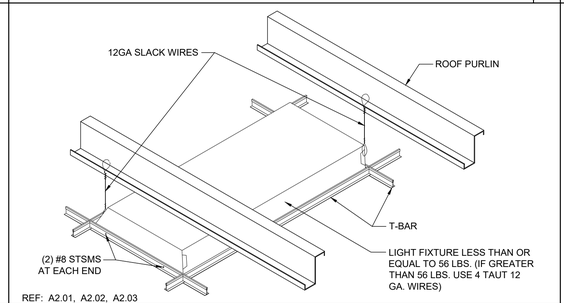
HANGER WIRE - FREE SIDE (ENDWALL) — SCALE : 3"=1'-0" — 14

ATTIC DRAFT STOP — SCALE : 3"=1'-0" — 15



REF: A2.01, A2.02, A2.03

SPLAY BRACING WIRE — SCALE : 3"=1'-0" — 6

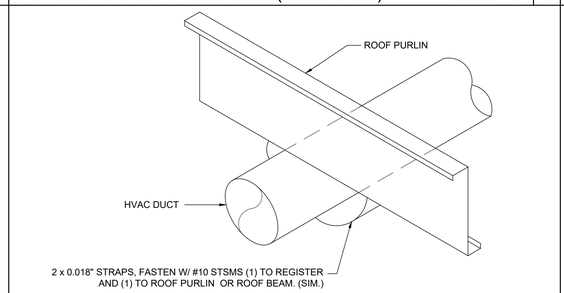


REF: A2.01, A2.02, A2.03

LIGHT FIXTURE MOUNTING — SCALE : NTS — 7

REF: A2.01, A2.02, A2.03

HANGER WIRE - FREE SIDE (SIDEWALL) — SCALE : 3"=1'-0" — 9



REF: A2.01, A2.02, A2.03

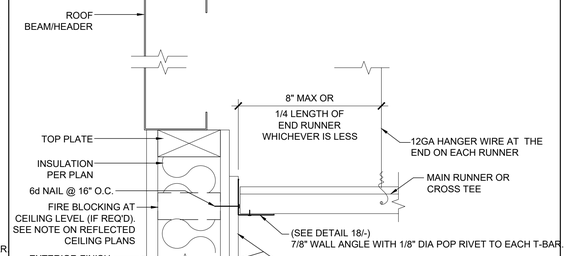
HANGER WIRE - FIXED SIDE (SIDEWALL) — SCALE : 3"=1'-0" — 8

REF: A2.01, A2.02, A2.03

GRID AT MODLINE — SCALE : 3"=1'-0" — 1

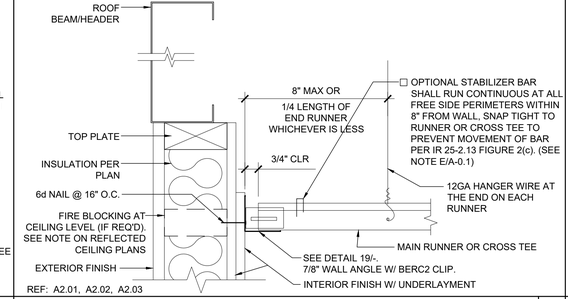
REF: A2.01, A2.02, A2.03

4' CROSS TEE AT LIGHTS — SCALE : 3/8"=1'-0" — 2



REF: A2.01, A2.02, A2.03

HANGER WIRE - FIXED SIDE (SIDEWALL) — SCALE : 3"=1'-0" — 8

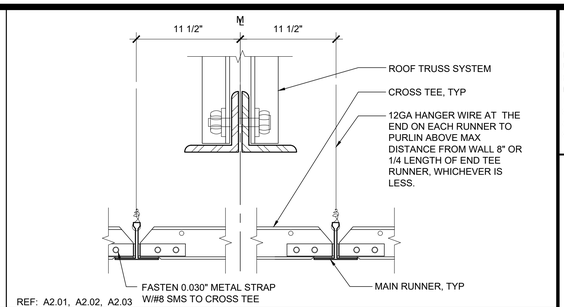


REF: A2.01, A2.02, A2.03

HANGER WIRE - FREE SIDE (SIDEWALL) — SCALE : 3"=1'-0" — 9

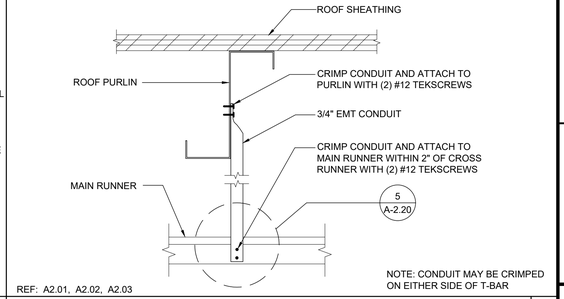
REF: MECHANICAL SHEETS

HVAC DUCTWORK MOUNTING — SCALE: NTS — 10



REF: A2.01, A2.02, A2.03

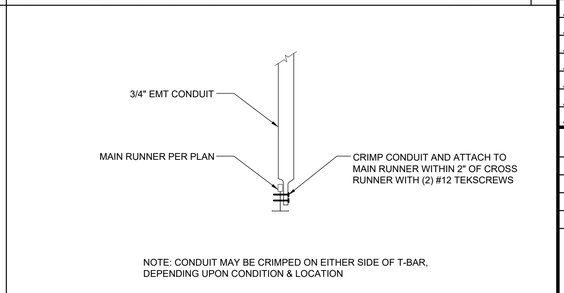
SEISMIC SPLAY - 4 WAY — SCALE : NTS — 3



NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR

REF: A2.01, A2.02, A2.03

COMPRESSION STRUT — SCALE : 3"=1'-0" — 4



NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR, DEPENDING UPON CONDITION & LOCATION

REF: A2.01, A2.02, A2.03

COMPRESSION STRUT — SCALE : 3"=1'-0" — 5

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DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CEILING DETAILS
T-GRID

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE, 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC_RM_ FLS_DS_SSR_KER
DATE 10/05/2018

REVISIONS

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3	
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6	
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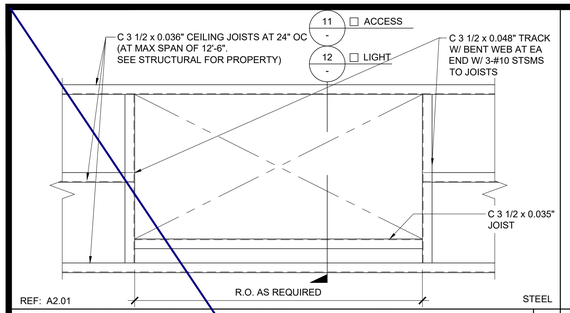
8	

SILVER CREEK INDUSTRIES
24' x 60' PC

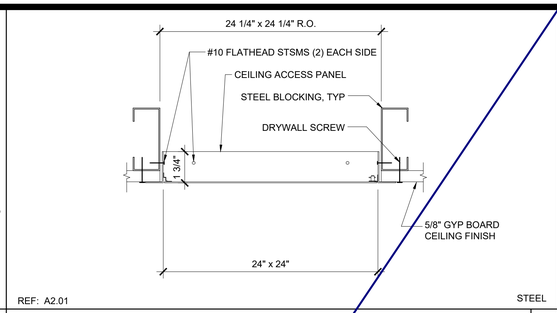
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER
A-2.20

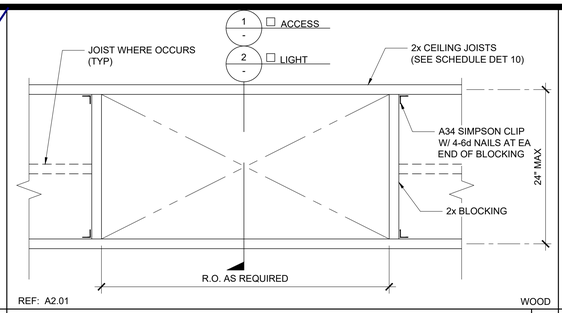
PHASE III



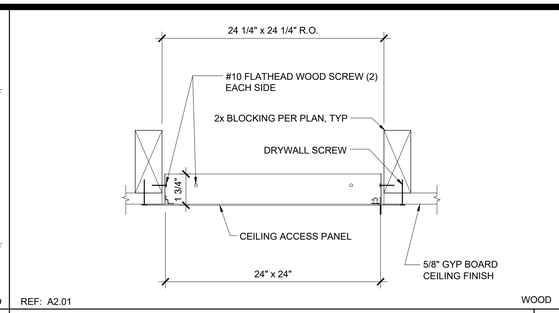
RECESS STEEL CEILING JOIST FRAMING PLAN
SCALE : 1" = 1'-0" | 16



CEILING ACCESS PANEL - STEEL
SCALE : 3" = 1'-0" | 11

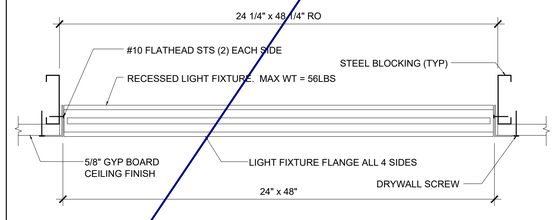


RECESS WOOD CEILING JOIST FRAMING PLAN
SCALE : 1" = 1'-0" | 6



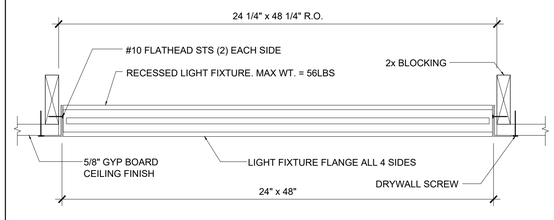
CEILING ACCESS PANEL
SCALE : 3" = 1'-0" | 1

NOT USED
17

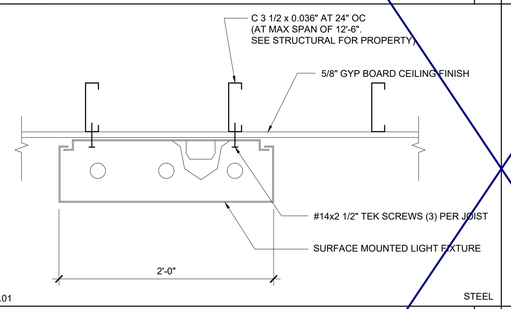


RECESSED LIGHT FIXTURE AT HARD LID
SCALE : 1 1/2" = 1'-0" | 12

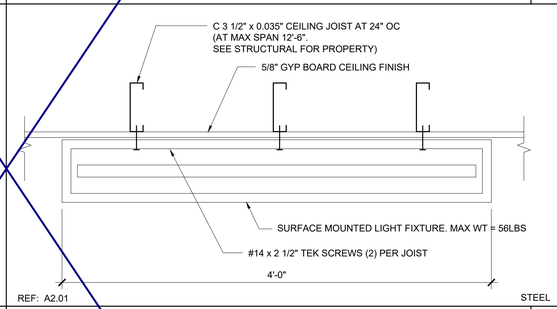
NOT USED
7



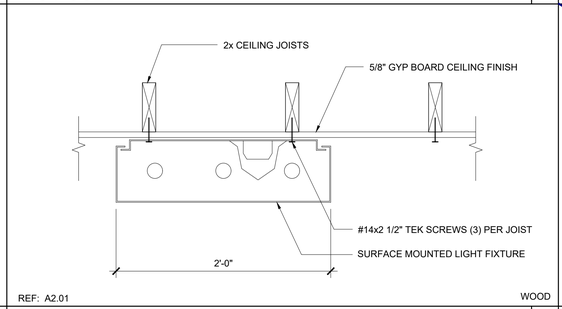
RECESSED LIGHT FIXTURE AT HARD LID
SCALE : 1 1/2" = 1'-0" | 2



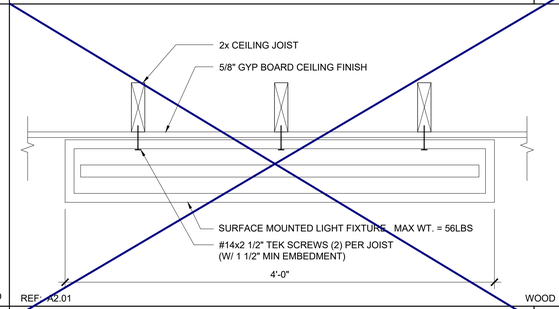
SURFACE MOUNTED LIGHT - PARALLEL JOISTS
SCALE : 1 1/2" = 1'-0" | 18



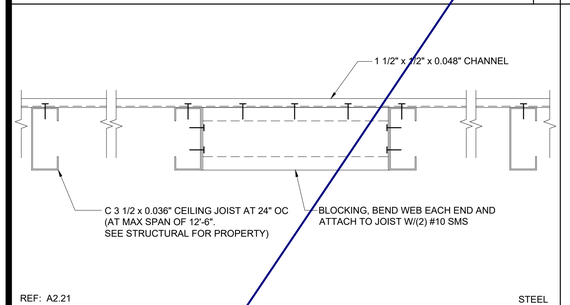
SURFACE MOUNTED LIGHT-PERPENDICULAR JOISTS
SCALE : 1 1/2" = 1'-0" | 13



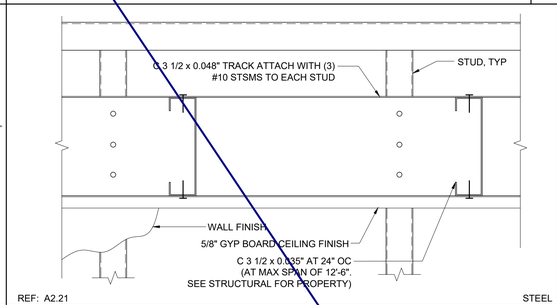
SURFACE MOUNTED LIGHT - PARALLEL JOISTS
SCALE : 1 1/2" = 1'-0" | 8



SURFACE MOUNTED LIGHT-PERPENDICULAR JOISTS
SCALE : 1 1/2" = 1'-0" | 3

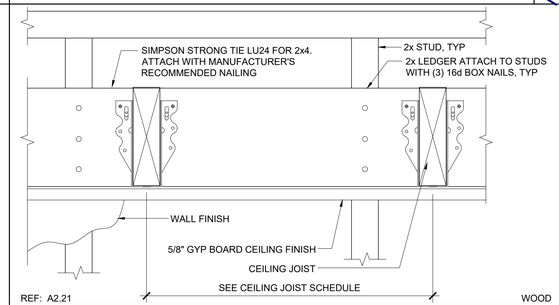


CEILING JOIST BLOCKING - STEEL
SCALE : 3" = 1'-0" | 19

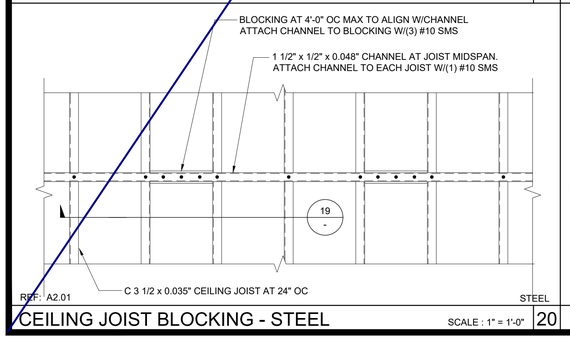


HARD LID CEILING CONNECTION - STEEL
SCALE : 3" = 1'-0" | 14

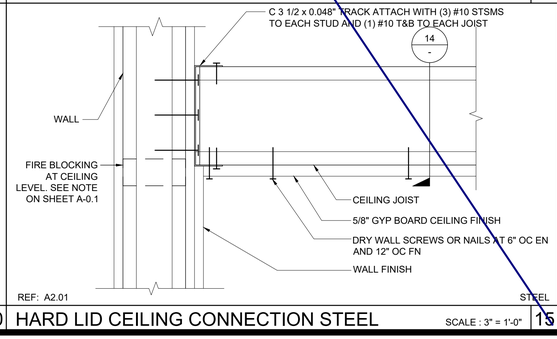
NOT USED
9



HARD LID CEILING CONNECTION
SCALE : 3" = 1'-0" | 4



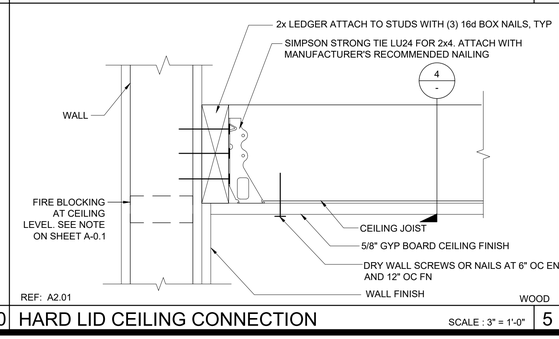
CEILING JOIST BLOCKING - STEEL
SCALE : 1" = 1'-0" | 20



HARD LID CEILING CONNECTION STEEL
SCALE : 3" = 1'-0" | 15

2X4 JOIST TABLE - MAX SPAN					
SPACING	HEMFIR STUD	HEMFIR NO 2	HEMFIR NO 1	DFL STUD	DFL NO. 2
12" OC	11' - 3"	11' - 7"	12' - 2"	11' - 10"	12' - 5"
16" OC	10' - 3"	10' - 6"	11' - 0"	10' - 9"	11' - 3"
24" OC	8' - 11"	9' - 2"	9' - 8"	9' - 5"	9' - 10"

WOOD CEILING JOIST SCHEDULE
SCALE : NTS | 10



HARD LID CEILING CONNECTION
SCALE : 3" = 1'-0" | 5

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SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CEILING DETAILS
HARD LID

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24175 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
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DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS
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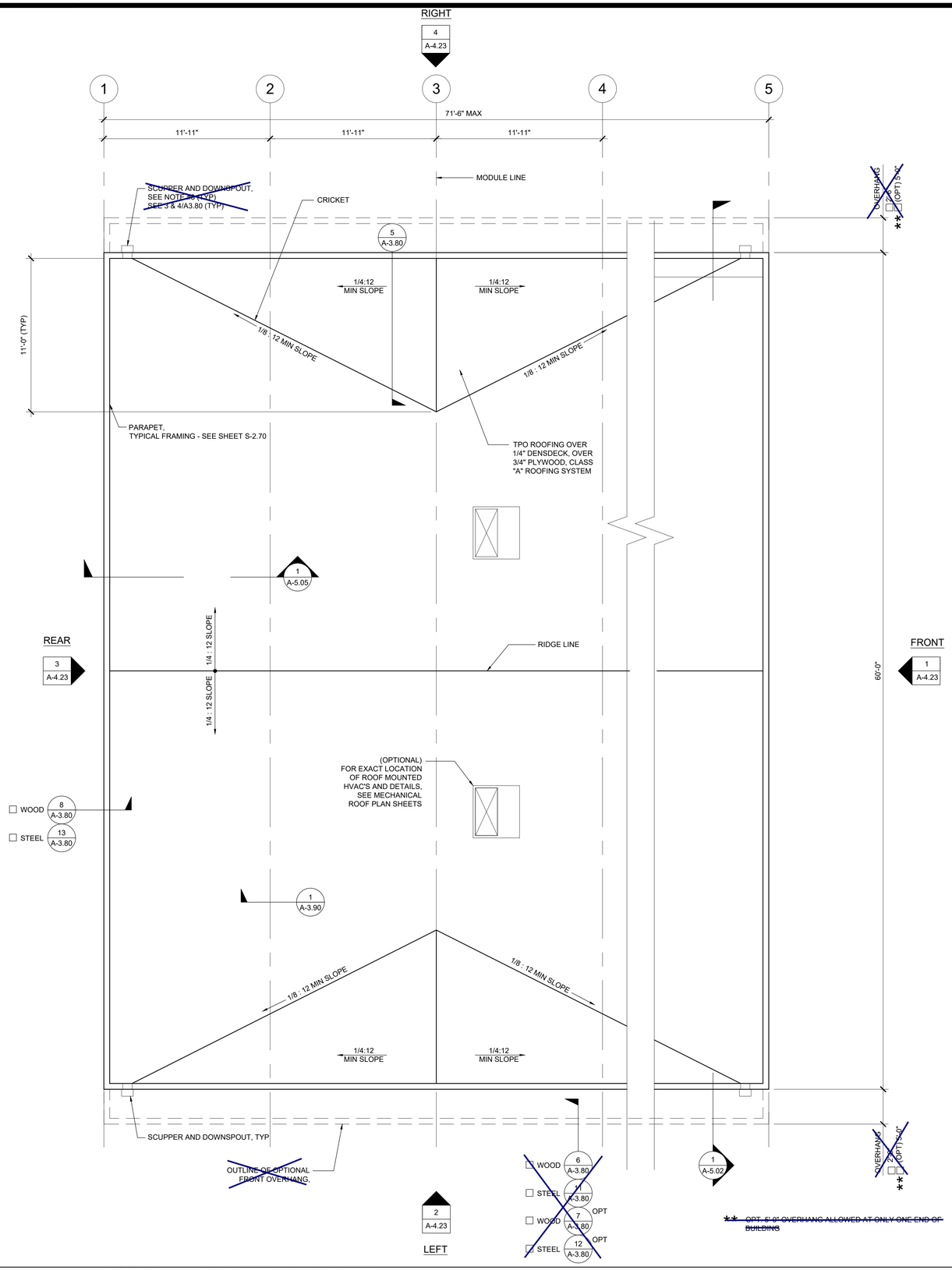
6
7
8

SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

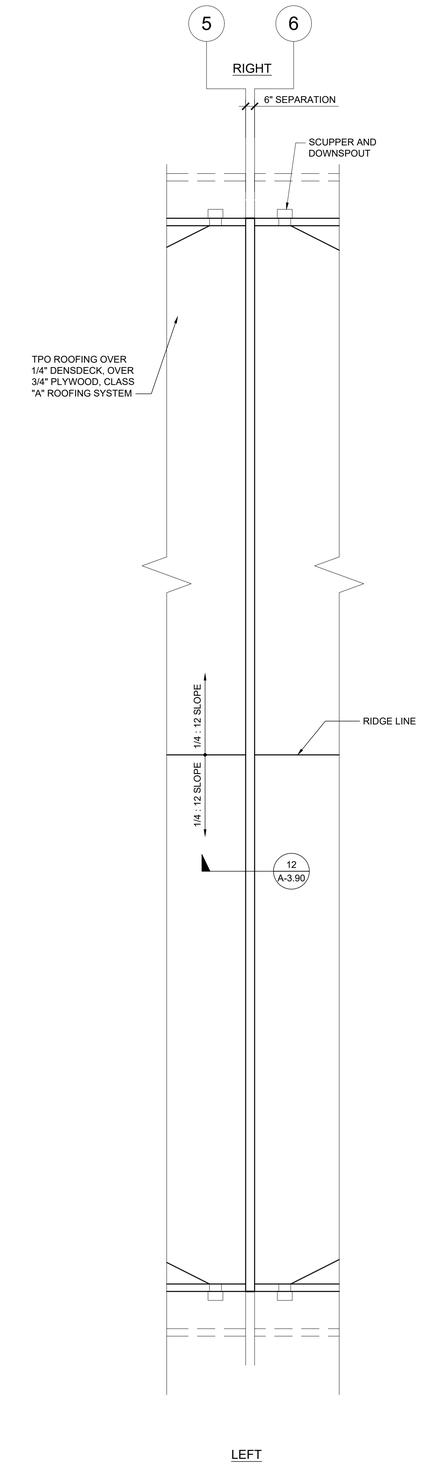
P.C. SHEET NUMBER
A-2.21

PHASE III



ROOF PLAN - PARAPET - DUAL SLOPE

SCALE: 1/4" = 1' - 0" | 2



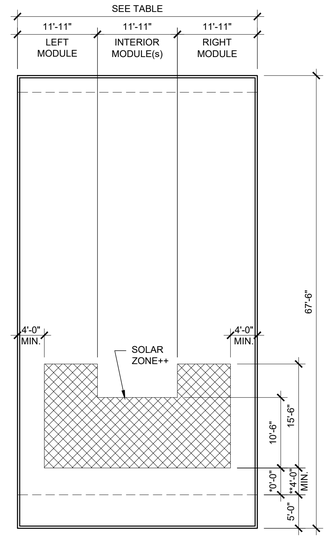
ROOF SEPARATION PLAN OPTION

SCALE: 1/4" = 1' - 0" | 1

NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC-718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
3. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES. PER CBC 2016 SECTIONS 1015.6 & 1015.7. OR PROVIDE 42" MIN. PARAPET OR GUARDRAIL.

SOLAR ZONE



KEYPLAN (w/ PARAPET)

* w/ OVERHANG
** w/o OVERHANG

SOLAR ZONE CALCULATION TABLE

BUILDING SIZE	REQUIRED SOLAR ZONE	PROVIDED SOLAR ZONE
24'-0" x 67'-6"	242 SF	250 SF
36'-0" x 67'-6"	363 SF	375 SF
48'-0" x 67'-6"	484 SF	500 SF
60'-0" x 67'-6"	605 SF	625 SF
72'-0" x 67'-6"	726 SF	750 SF
ROOF AREA PER MODULE	=	775 SF
REQUIRED SOLAR ZONE	=	121 SF
PROVIDED SOLAR ZONE	=	125 SF

++NOTE: ACTUAL SOLAR ZONE LOCATION AND SIZE MAY VARY. MINIMUM ZONE AREA SHALL BE PER THE TABLE ABOVE.

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SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF PLAN
36' TO 72' x 60' - PARAPET DUAL SLOPE

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2010 CBC
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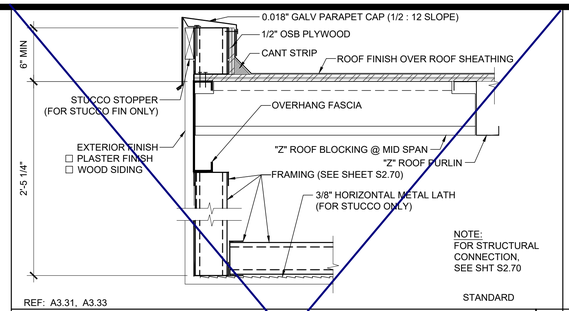
SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 8-10-18

P.C. SHEET NUMBER
A-3.33

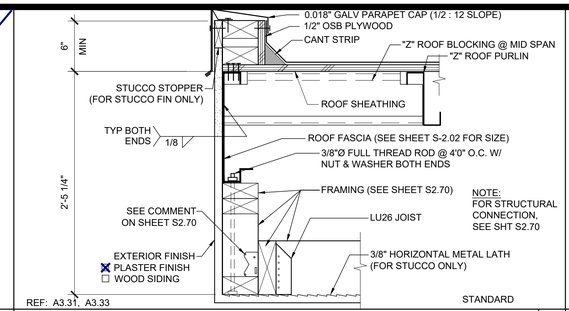
PHASE III



REF: A3.31, A3.33

STANDARD

FRONT PARAPET SECTION (STEEL FRAME) SCALE : 1 1/2" = 1'-0" | 11

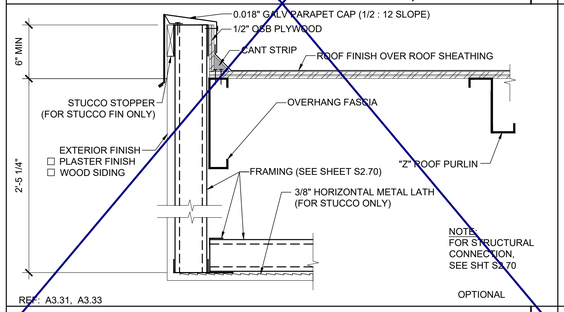


REF: A3.31, A3.33

STANDARD

FRONT PARAPET SECTION (WOOD FRAME) SCALE: 1 1/2"=1'-0" | 6

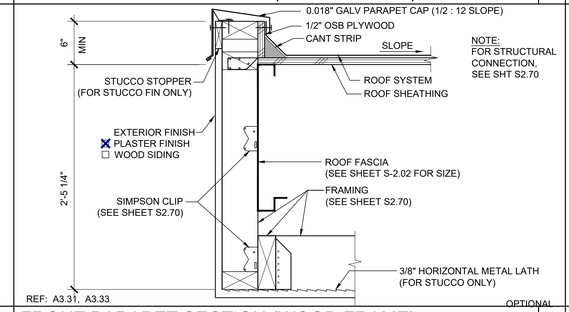
	1



REF: A3.31, A3.33

OPTIONAL

FRONT PARAPET SECTION (STEEL FRAME) SCALE : 1 1/2" = 1'-0" | 12

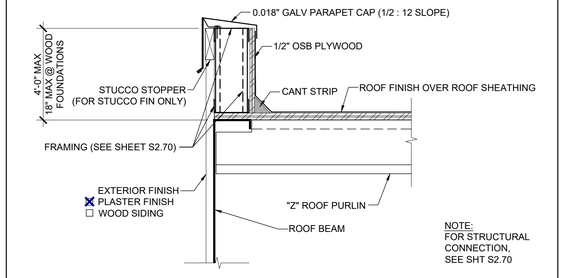


REF: A3.31, A3.33

OPTIONAL

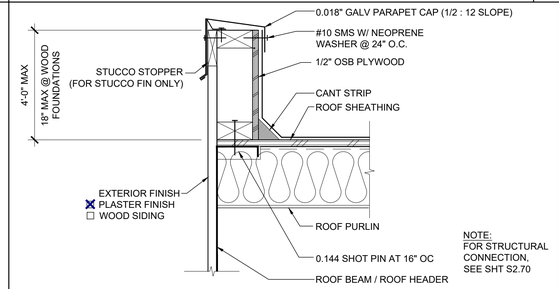
FRONT PARAPET SECTION (WOOD FRAME) SCALE: 1 1/2"=1'-0" | 7

	2



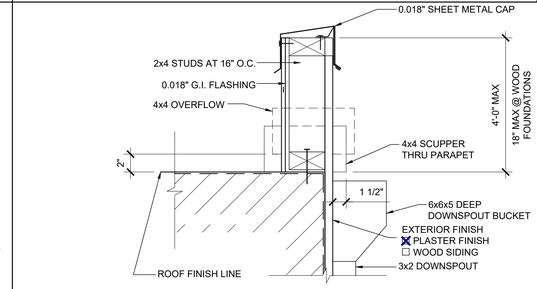
REF: A3.31, A3.33

SIDEWALL PARAPET SECTION (STEEL FRAME) SCALE : 1 1/2" = 1'-0" | 13



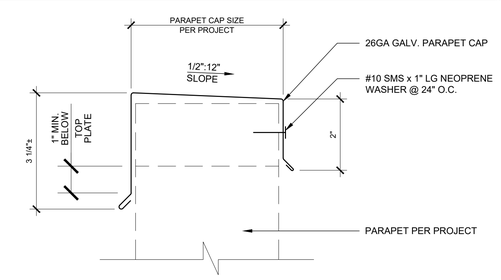
REF: A3.31, A3.33

SIDEWALL PARAPET SECTION (WOOD FRAME) SCALE: 1 1/2" = 1'-0" | 8



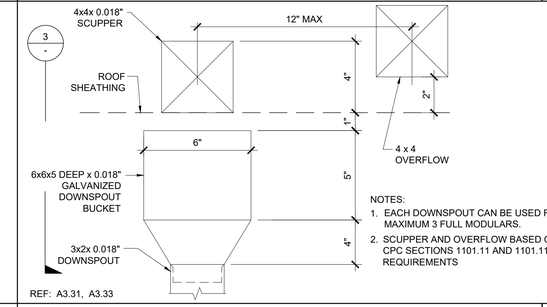
REF: A3.31, A3.33

PARAPET DETAIL SCALE: 1 1/2"=1'-0" | 3



REF: A-3.80

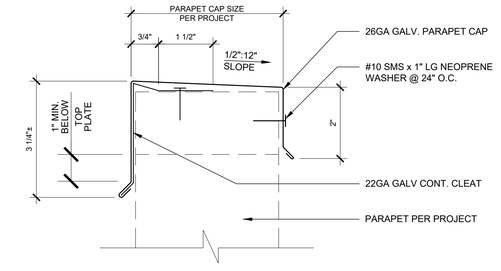
	19



REF: A3.31, A3.33

SCUPPER DETAIL AT PARAPET SCALE : 3"=1'-0" | 4

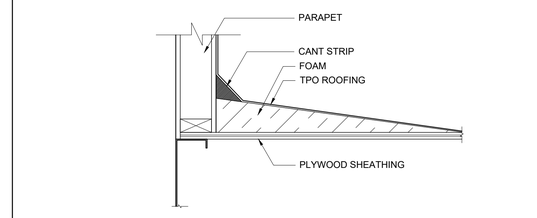
	9



REF: A-3.80

	20

PARAPET CAP DETAIL SCALE : 1 1/2" = 1'-0" | 15



REF: A3.31, A3.33

SECTION AT CRICKET SCALE : 1 1/2" = 1'-0" | 5

	10

REF: A-3.80

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IDENTIFICATION STAMP
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APP. 03-120102 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CRE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF DETAILS PARAPET

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC_RM_ FLS_DS_SSR_KER
DATE 10/05/2018

REVISIONS

1	
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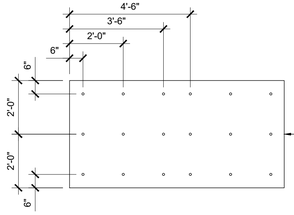
SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER

A-3.80

PHASE III



NOTE:
"DENS-DECK" OVERLAYMENT w/ ALL JOINTS MUST BE STAGGERED A MINIMUM OF 8" FROM THE PLYWOOD JOINT

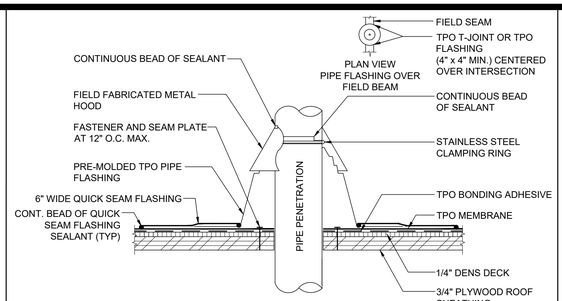
NOTE:
NAIL ALL /4\ CORNERS OF EACH SHEET OF DENS-DECK FOR TEMP PLACEMENT

(18) 1.5/8" WS FASTENERS W/ WASHER PER 4'x8' SHEET (TYP)

18 FASTENERS PER BOARD

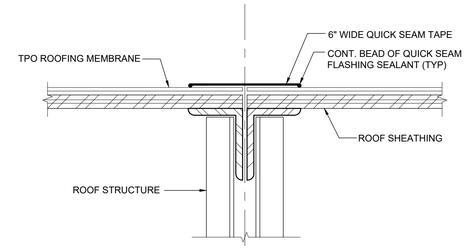
FMRC 1-90 WIND UPLIFT / (18) FASTENERS PER 4' x 8' BOARD

TYP 4x8 SHEET FASTENER LAYOUT — SCALE: NTS — 16



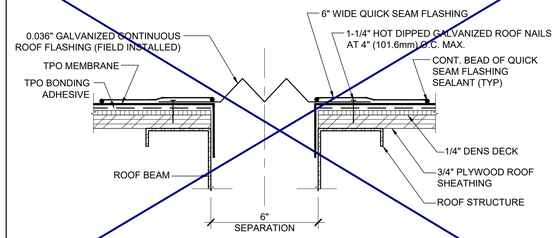
DETAIL AT PIPE FLASHING — SCALE: 3"=1'-0" — 11

NOT USED — 6



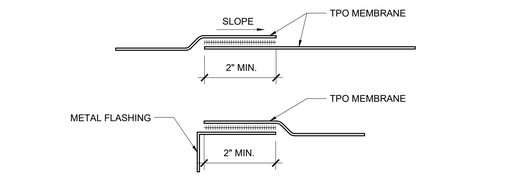
REF: A3.41, A3.43

TPO ROOF AT MODLINE — SCALE : 3"=1'-0" — 1



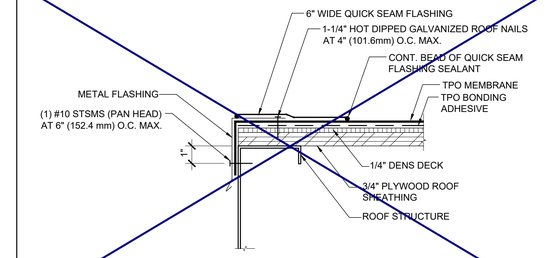
SEPARATION AT ROOF — SCALE: 3"=1'-0" — 12

NOT USED — 7

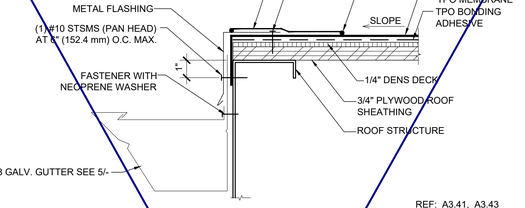


REF: A3.41, A3.43

TPO LAP SPLICE — SCALE: 6" = 1'-0" — 2



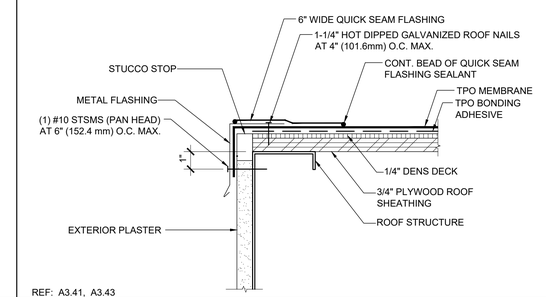
NOT USED — 13



REF: A3.41, A3.43

ROOF AT SIDEWALL — SCALE: 3" = 1'-0" — 8

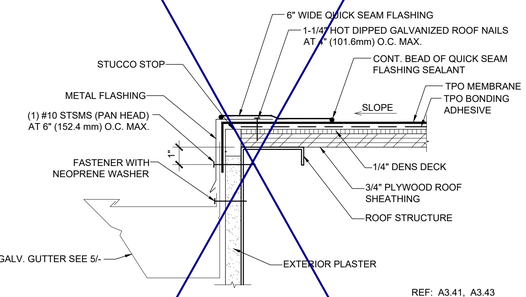
ROOF AT LOW END — SCALE: 3"=1'-0" — 3



REF: A3.41, A3.43

ROOF AT SIDEWALL — SCALE: 3" = 1'-0" — 9

ROOF AT LOW END — SCALE: 3" = 1'-0" — 4



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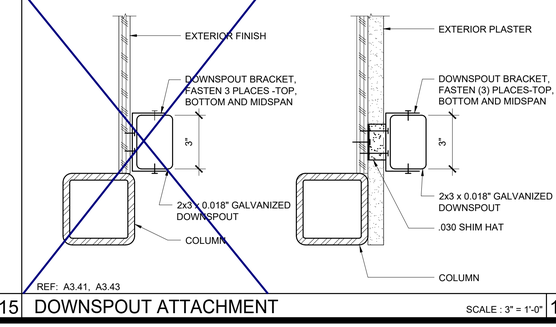
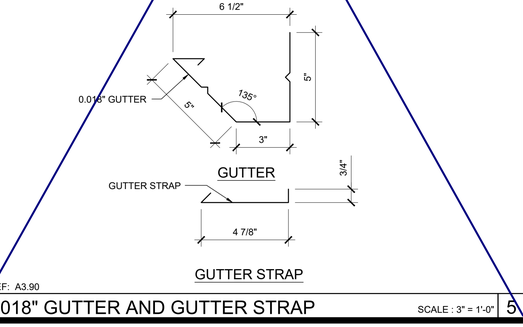


REF: A3.41, A3.43

DOWNSPOUT ATTACHMENT — SCALE : 3" = 1'-0" — 15



REF: A3.90

0.018" GUTTER AND GUTTER STRAP — SCALE : 3" = 1'-0" — 5

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOFING DTAILS TPO ROOF

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS

1	ADDED T.P.O. FASTENING LAYOUT 12/12/12
2	
3	
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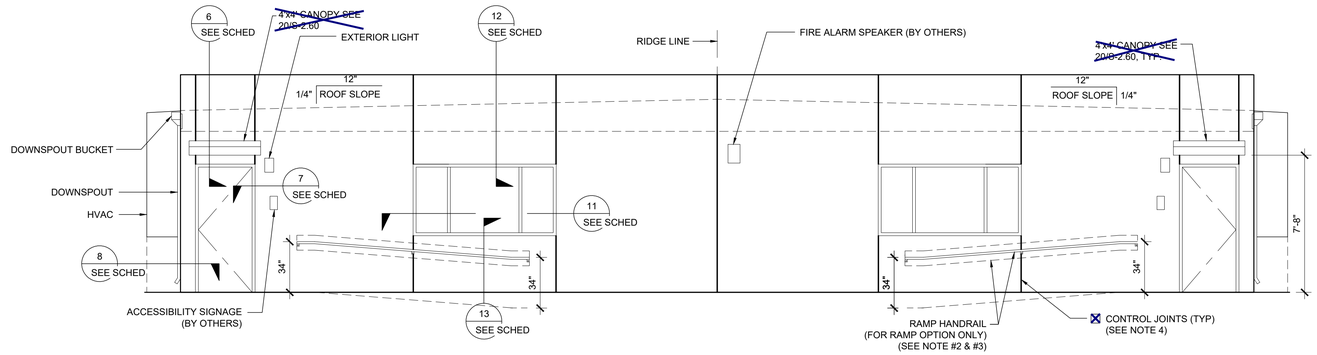
SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 8-10-18

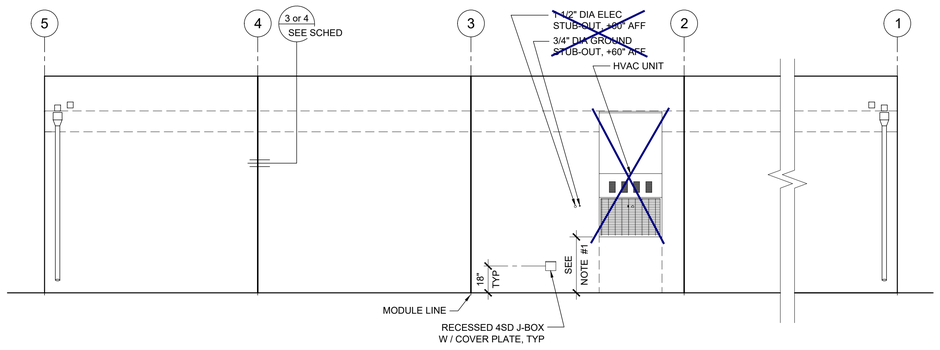
P.C. SHEET NUMBER
A-3.90

PHASE III



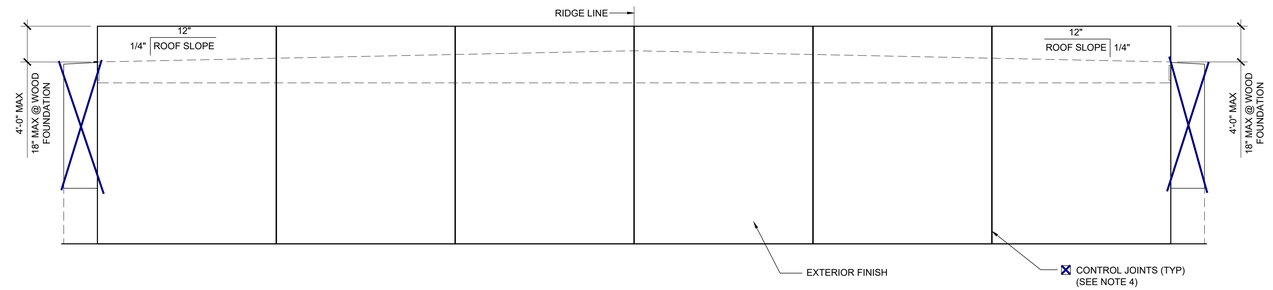
EXTERIOR ELEVATIONS - FRONT

SCALE: 1/4" = 1' - 0" | 1



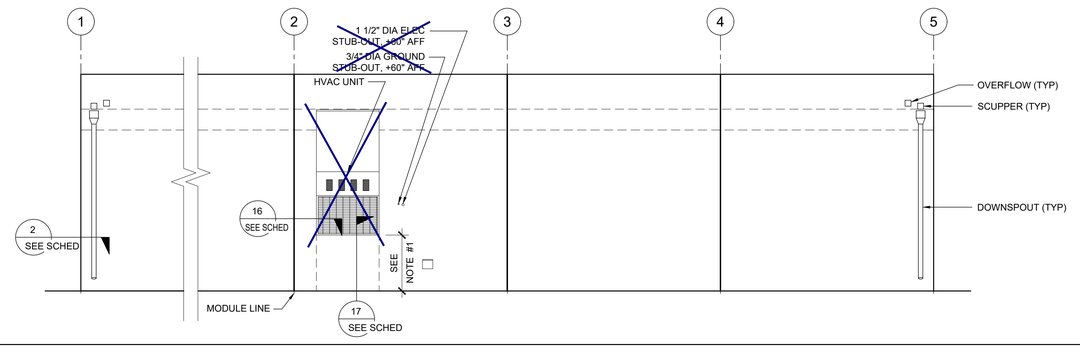
EXTERIOR ELEVATIONS - LEFT

SCALE: 1/4" = 1' - 0" | 2



EXTERIOR ELEVATIONS - REAR

SCALE: 1/4" = 1' - 0" | 3



EXTERIOR ELEVATIONS - RIGHT

SCALE: 1/4" = 1' - 0" | 4

NOTES (EXTERIOR ELEVATION)

1. PROVIDE PROTECTION RAIL AROUND HVAC UNIT(S) IF LOCATED IN A PEDESTRIAN WAY IF THE HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" (NIC). REFERENCE TO DET. # 2/A5.81 FOR WOOD STUDS, # 17/A5.81 FOR STEEL STUDS
2. RAMP (WHERE OCCURS), NOT SHOWN FOR CLARITY.
3. WALL BEYOND HANDRAIL SHALL NOT HAVE ANY SHARP OR ABRASIVE SURFACE ADJACENT TO HANDRAILS. (GRIND SMOOTH ALL METAL RAILING CONNECTIONS - SMOOTH SURFACE TO EXTEND 18" ABOVE HANDRAIL)
4. FOR PLASTER ONLY, PROVIDE CONTROL JOINT AT EACH MODLINE, ON END WALLS, 10'-0" OC AT SIDE WALLS, AND / OR ABOVE AND BELOW OPENINGS. WHERE FIRE RATED WALLS ARE REQUIRED, MATERIALS AND METHODS OF CONSTRUCTION USED TO PROTECT JOINTS WILL COMPLY WITH CBC SECTION 703.2 AND 705.
5. EXTERIOR PROJECTIONS SHALL COMPLY W/ SECTION 705 AND 1406, 2016 CBC
6. PROVIDE AN OFFSET RAMP (PER SHEET R-1.02) WHEN A RAMP IS REQUIRED ADJACENT TO A STUCCO WALL

DETAIL SCHEDULE

FINISH:	SHEET #:
☐ SIDING OVER WOOD STUDS	A-5.50
☒ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

FIRE PROTECTION:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

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DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

EXTERIOR ELEVATION
36' TO 72' X 60'
PARAPET

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CCR, 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
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DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS
1
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4
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7
8

SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER
A-4.23

PHASE III

DETAIL SCHEDULE

FINISH:	SHEET #:
☐ SIDING OVER WOOD STUDS	A-5.50
☒ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

~~FIRE RATED DETAIL SCHEDULE~~

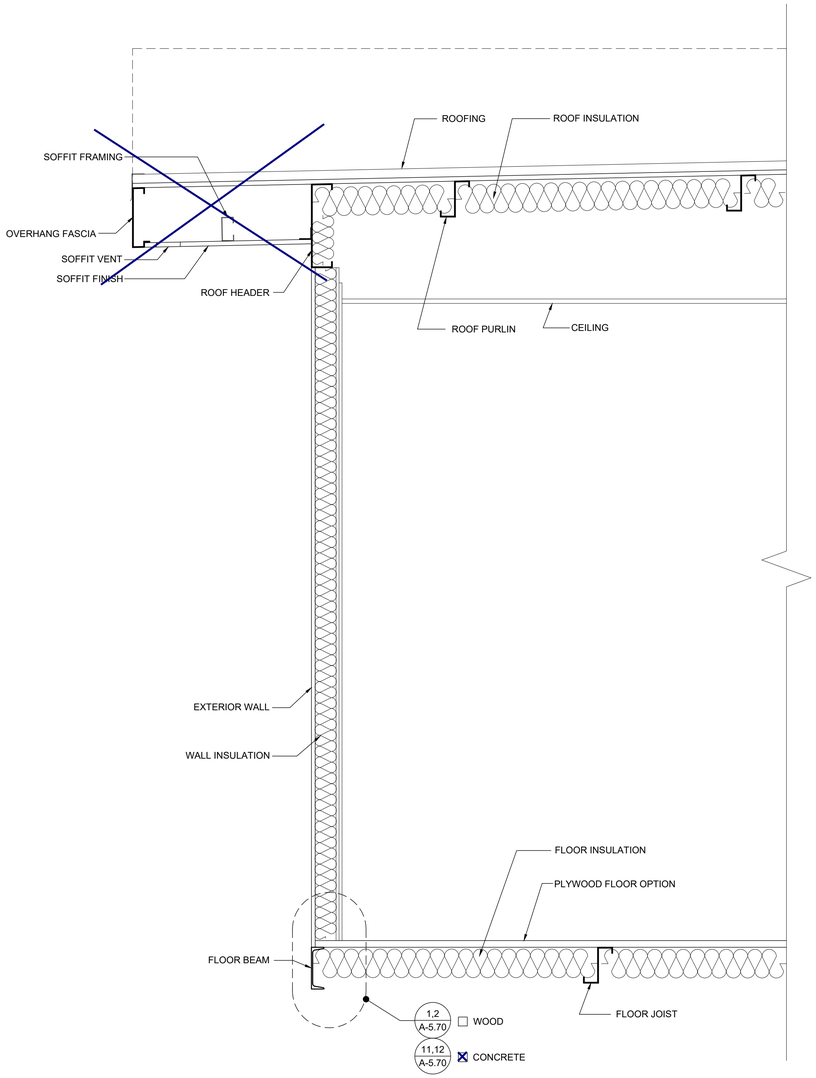
FINISH:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

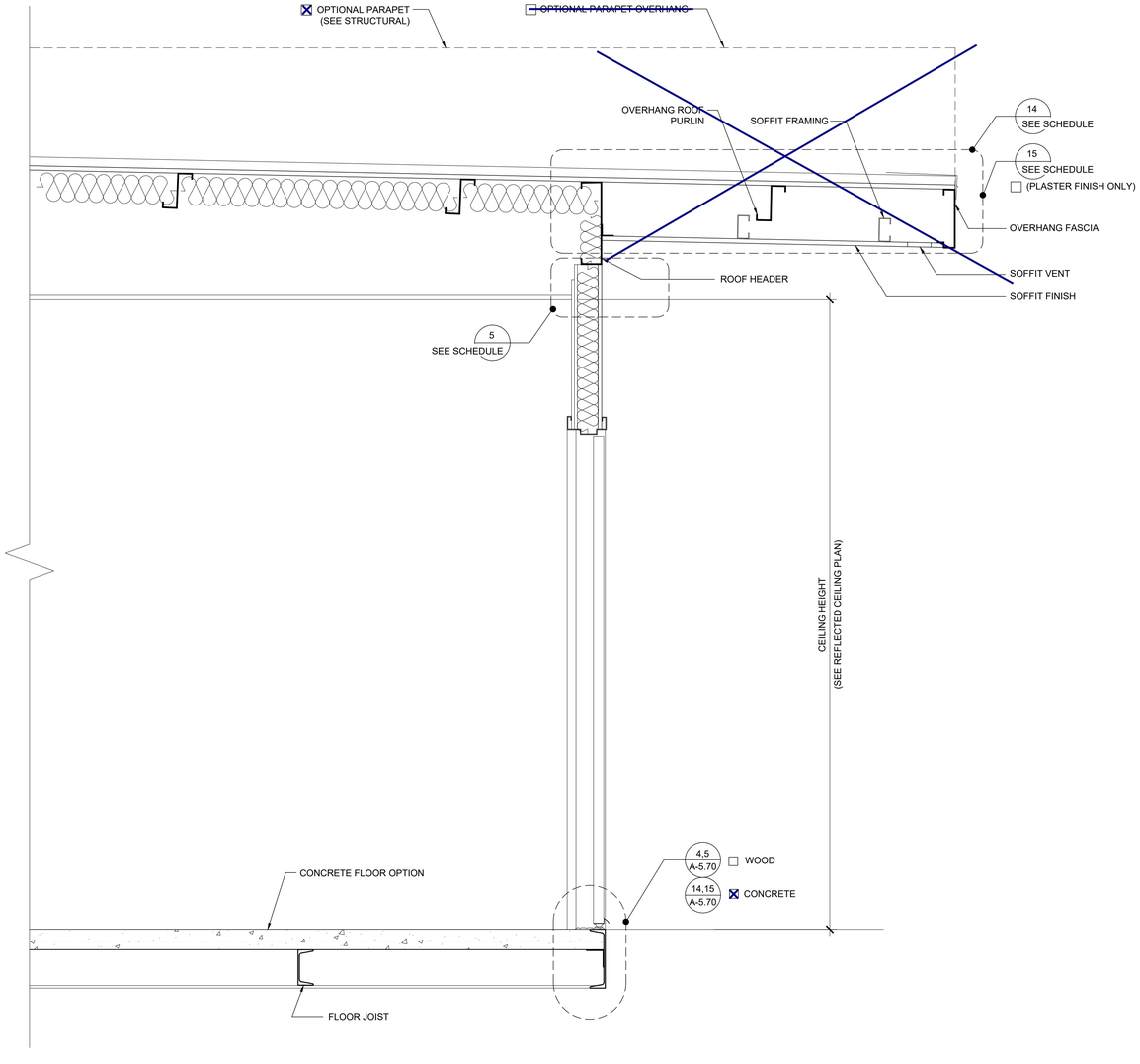
FLOOR OPTION

☐ WOOD FLOOR
☒ CONCRETE FLOOR

NOTES

MOISTURE PROTECTION AND CAULKING:
GENERAL: FURNISH AND INSTALL ALL CAULKING AS REQUIRED TO PROVIDE A WEATHERTIGHT BUILDING.
MATERIALS: SEALANT SHALL BE AN ACRYLIC LATEX OR SILICONE CAULKING.
APPLICATIONS: AT JOINTS WHERE SHOWN, APPLY SEALANT AS FOLLOWS - JOINTS SHALL BE CLEAN, DRY, AND FREE FROM DUST, WAX, AND FOREIGN MATERIALS, SEALANT SHALL BE APPLIED WITH A GUN IN A STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS. COMPLETELY FILL THE JOINT AND FIRMLY TOOL AGAINST THE BACKING, MAKING A SMOOTH CONVEX BEAD.
COLOR: COLOR OF MATERIAL SHALL MATCH THAT OF ADJACENT FINISHED SURFACES.





BUILDING SECTION

SCALE: 1" = 1' - 0"

1

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Building for the Next Generation

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CROSS SECTION
DUAL SLOPE
~~0.018" OR BUILT UP ROOF DECK~~
OR PARAPET

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS

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SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER

A-5.02

PHASE III

DETAIL SCHEDULE

FINISH:	SHEET #:
☐ SIDING OVER WOOD STUDS	A-5.50
☒ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.51
☐ SIDING OVER STEEL STUDS	A-5.60
☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.61

FIRE RATED DETAIL SCHEDULE

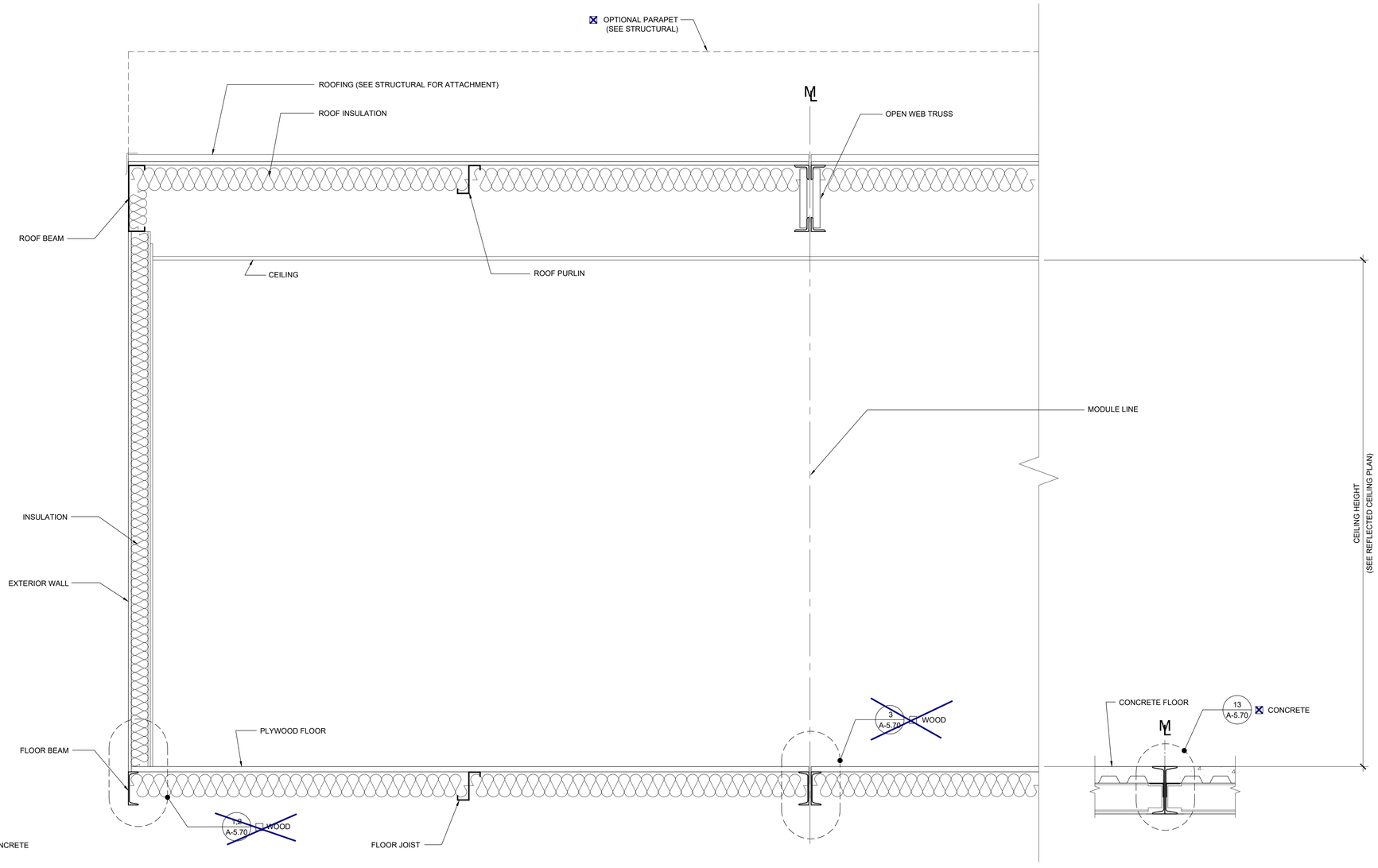
FINISH:	SHEET #:
☐ 1 HOUR - SIDING OVER WOOD STUDS	A-5.52
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS	A-5.53
☐ 1 HOUR - SIDING OVER STEEL STUDS	A-5.62
☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS	A-5.63

FLOOR OPTION

☐ WOOD FLOOR
☒ CONCRETE FLOOR

NOTES

MOISTURE PROTECTION AND CAULKING:
GENERAL: FURNISH AND INSTALL ALL CAULKING AS REQUIRED TO PROVIDE A WEATHERTIGHT BUILDING.
MATERIALS: SEALANT SHALL BE AN ACRYLIC LATEX OR SILICONE CAULKING.
APPLICATIONS: AT JOINTS WHERE SHOWN, APPLY SEALANT AS FOLLOWS - JOINTS SHALL BE CLEAN, DRY, AND FREE FROM DUST, WAX, AND FOREIGN MATERIALS, SEALANT SHALL BE APPLIED WITH A GUN IN A STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS. COMPLETELY FILL THE JOINT AND FIRMLY TOOL AGAINST THE BACKING, MAKING A SMOOTH CONVEX BEAD.
COLOR: COLOR OF MATERIAL SHALL MATCH THAT OF ADJACENT FINISHED SURFACES.



CONCRETE FLOOR OPTION

WOOD FLOOR OPTION

CONCRETE FLOOR OPTION

BUILDING SECTION

SCALE: 1" = 1' - 0" | 1

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MAKING OF DRAWINGS, PRIN
THEREOF WITHOUT THE FUL
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ALL PATENTABLE MATERIAL
ORIGINATING WITH SCI Inc S

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DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

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REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

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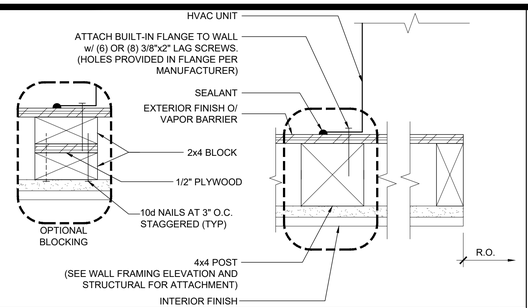
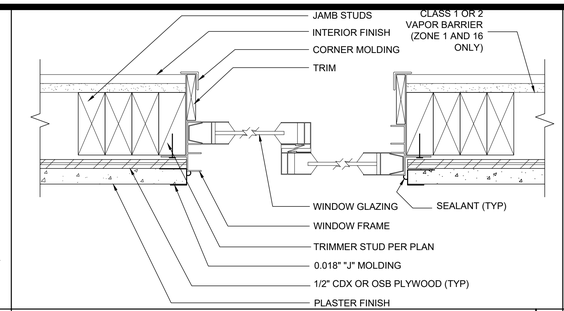
PHASE III



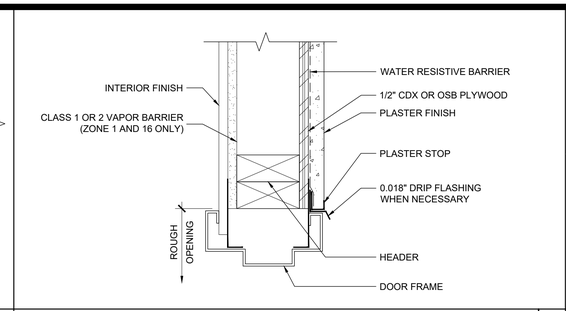
HVAC MOUNT AT JAMBS

SCALE : 3"=1'-0" | 16



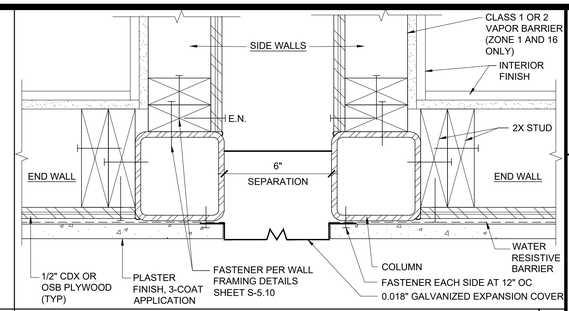
WINDOW SECTION AT JAMBS

SCALE : 3"=1'-0" | 11



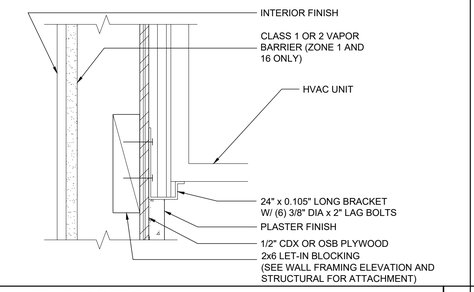
EXTERIOR DOOR HEADER

SCALE : 3"=1'-0" | 6



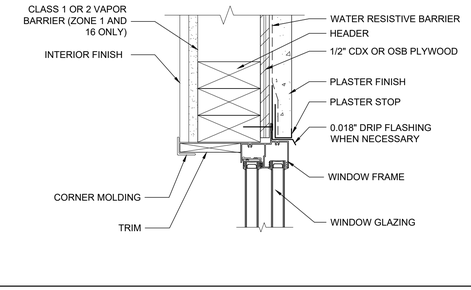
CLOSURE BETWEEN BUILDINGS

SCALE : 3"=1'-0" | 1



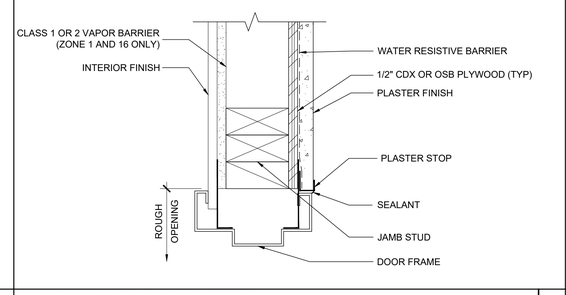
HVAC UNIT AT BOTTOM

SCALE : 3"=1'-0" | 17



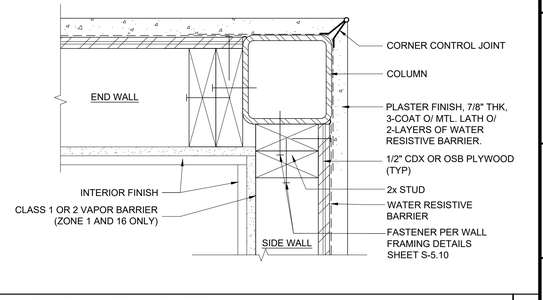
WINDOW HEADER

SCALE : 3"=1'-0" | 12



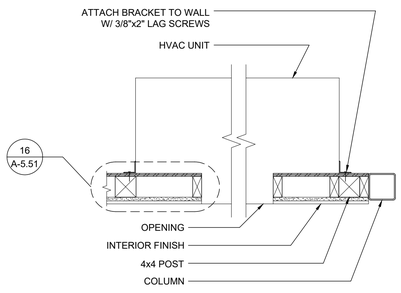
EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 7



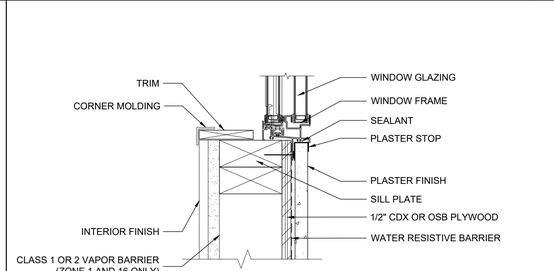
COLUMN AT CORNER

SCALE : 3"=1'-0" | 2



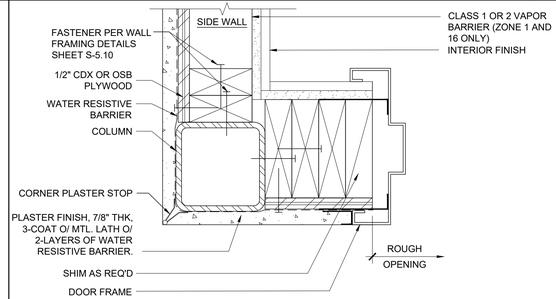
HVAC UNIT (PLAN)

SCALE : 1"=1'-0" | 18



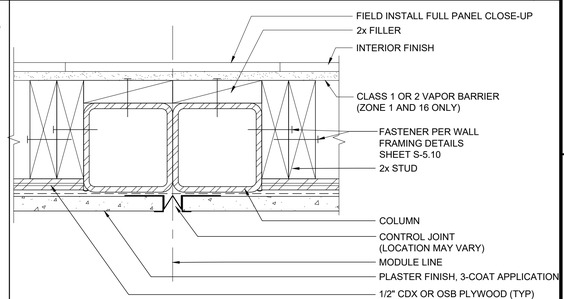
WINDOW SILL

SCALE : 3"=1'-0" | 13



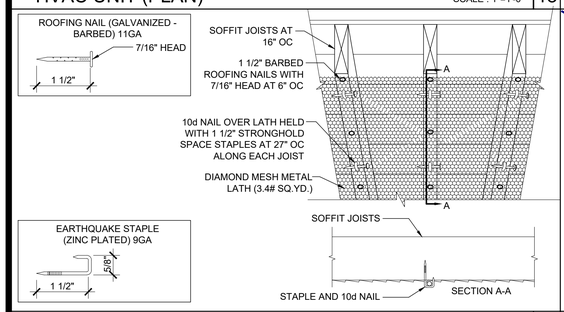
EXTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 8



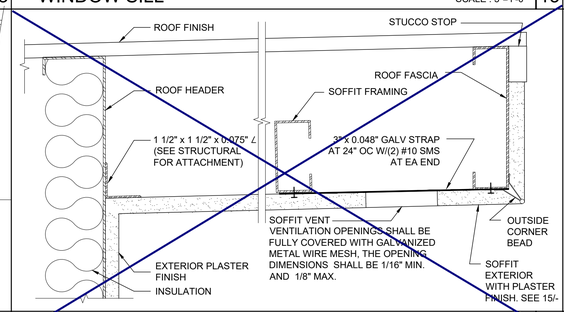
COLUMN AT MODULE LINE (FULL PANEL CLOSE-UP)

SCALE : 3"=1'-0" | 3



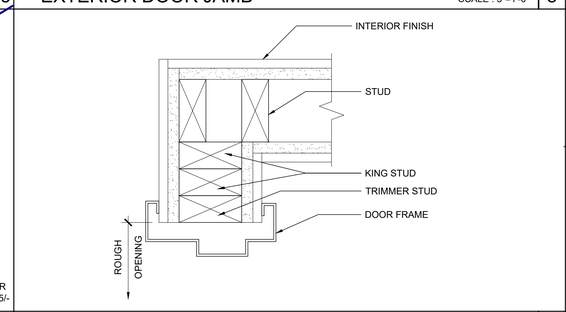
METAL LATH ATTACHMENT TO WOOD JOIST

SCALE : 1 1/2" = 1'-0" | 19



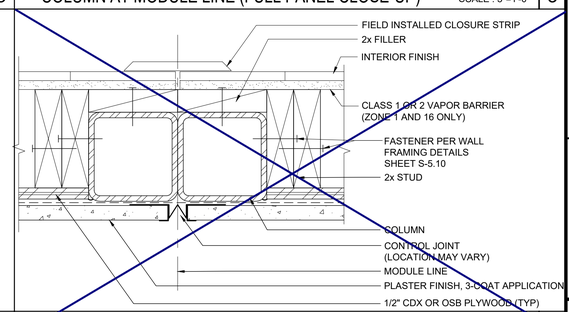
SOFFIT AT ROOF HEADER WITH VENT

SCALE : 3" = 1'-0" | 14



INTERIOR DOOR JAMB

SCALE : 3"=1'-0" | 9



COLUMN AT MODULE LINE (FULL PANEL CLOSE-UP)

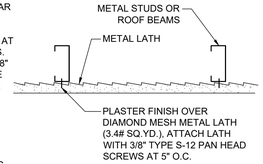
SCALE : 3"=1'-0" | 4

1. METAL LATH SHALL BE ATTACHED TO METAL SUPPORTS WITH NOT LESS #10 U.S. GAUGE THE WIRE SPACED NOT MORE THAN 6" APART OR WITH APPROVED EQUIVALENT ATTACHMENTS.

2. METAL LATH OR WIRE FABRIC SHALL BE APPLIED WITH THE LONG DIMENSION OF THE SHEETS PERPENDICULAR TO SUPPORTS.

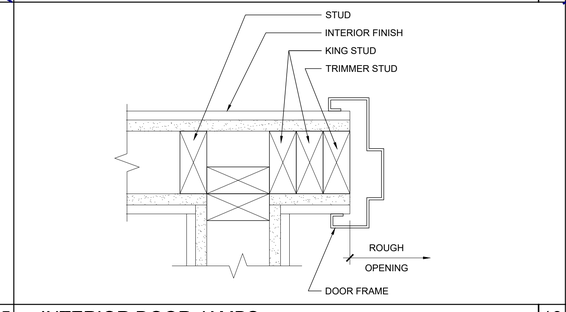
3. METAL LATH SHALL BE LAPPED NOT LESS THAN 1/2" AT SIDES AND 1" AT ENDS. WIRE FABRIC AT SIDES & ENDS. BUT NOT LESS THAN 1", AND METAL GREATER THAN 1/8" SHALL BE LAPPED AT THE SIDES BY NESTING OUTSIDE HOLE. WHERE EDGE LAPS OF SHEETS DO NOT OCCUR OVER SUPPORTS. THEY SHALL BE SECURELY TIED TOGETHER WITH NOT LESS THAN 18 GA. WIRE

4. CORNERITE SHALL BE INSTALLED IN ALL INTERNAL CORNERS TO RETAIN POSITION DURING PLASTERING CORNERITE MAY BE OMITTED WHEN LATH IS CONTINUOUS OR WHEN PLASTER IN NOT CONTINUOUS FROM ONE PLANE TO AN ADJACENT PLAN.



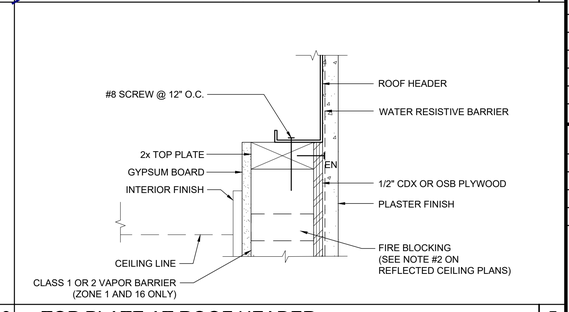
METAL LATH ATTACHMENT TO METAL JOIST

SCALE : NTS | 15



INTERIOR DOOR JAMBS

SCALE : 3"=1'-0" | 10



TOP PLATE AT ROOF HEADER

SCALE : 3" = 1'-0" | 5

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SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ARCHITECTURAL DETAILS
WOOD STUD - PLASTER

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

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SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
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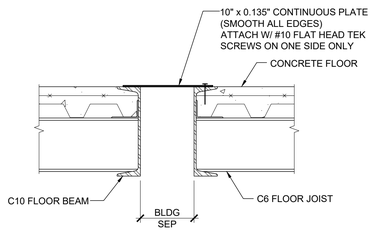
P.C. SHEET NUMBER

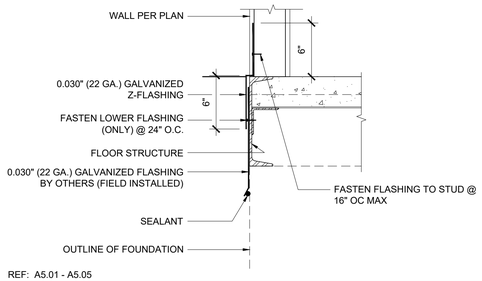
A-5.51

PHASE III



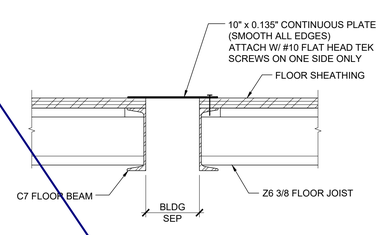
REF: A1.03

FLOOR AT SEPARATION (CONCRETE FLR) SCALE : 1 1/2"=1'-0" | 16



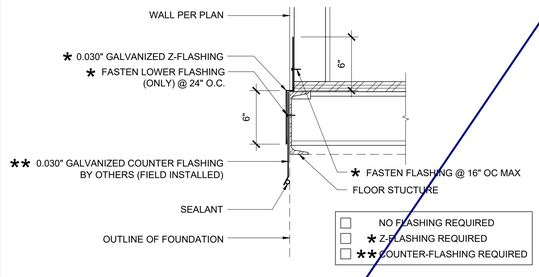
REF: A5.01 - A5.05

SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" | 11



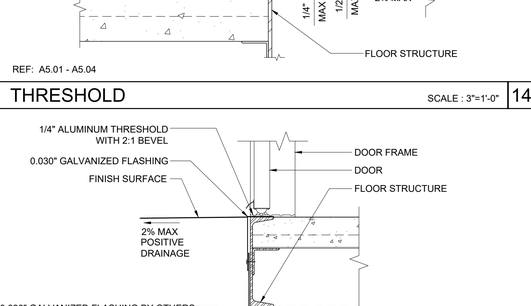
REF: A1.03

FLOOR AT SEPARATION (WOOD FLOOR) SCALE : 1 1/2"=1'-0" | 6



REF: A5.01 - A5.05

SKIRT FLASHING (WOOD FLOOR) SCALE : 1 1/2"=1'-0" | 1

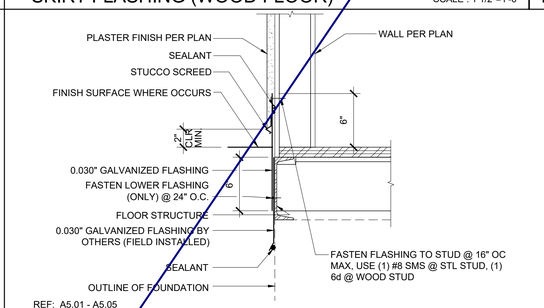


REF: A5.01 - A5.05

17

SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" | 12

7



REF: A5.01 - A5.05

SKIRT FLASHING (WOOD FLOOR) SCALE : 1 1/2"=1'-0" | 2

REF: A1.01 - A1.03

18

FLOOR AT MODLINE (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" | 13

8

REF: A1.01 - A1.03

FLOOR AT MODLINE (WOOD FLOOR) SCALE : 1 1/2"=1'-0" | 3

REF: A5.01 - A5.04

19

THRESHOLD SCALE : 3"=1'-0" | 14

9

REF: A5.01 - A5.04

THRESHOLD SCALE : 3"=1'-0" | 4

REF: A5.01 - A5.04

20

TYPICAL SILL AT FLOOR (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" | 15

10

REF: A5.01 - A5.04

TYPICAL SILL AT FLOOR (WOOD FLOOR) SCALE : 1 1/2"=1'-0" | 5

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SILVER CREEK
Building for the Next Generation

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ARCHITECTURAL DETAILS
FLOOR

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24075
STRUCTURAL
STATE OF CALIFORNIA

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SILVER CREEK INDUSTRIES
24' x 60' PC

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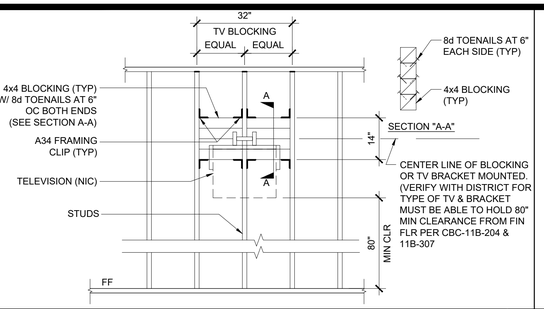
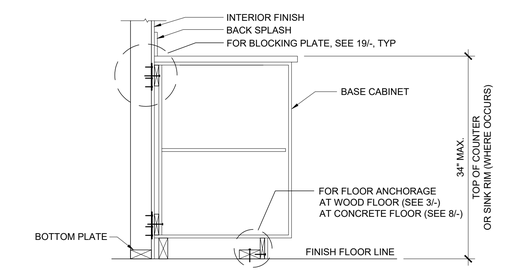
A-5.70

PHASE III



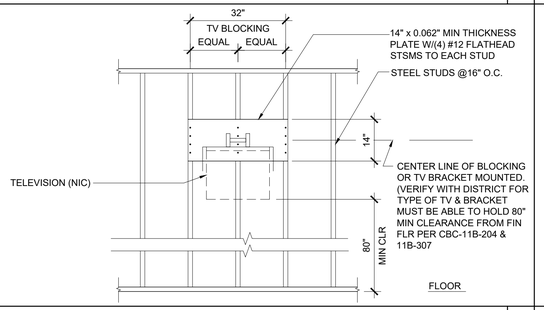
T.V. BLOCKING ATTACHMENT AT WOOD STUD

SCALE : 1/2" = 1'-0" | 16



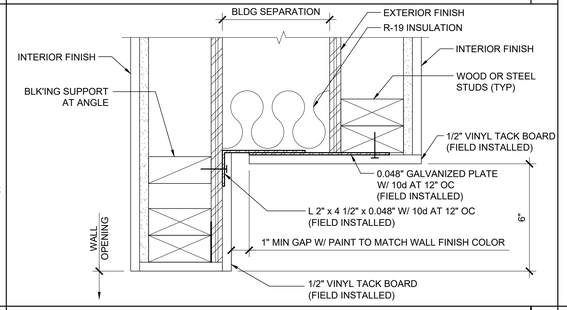
BASE CABINET WALL ANCHORAGE

SCALE : 1" = 1'-0" | 1



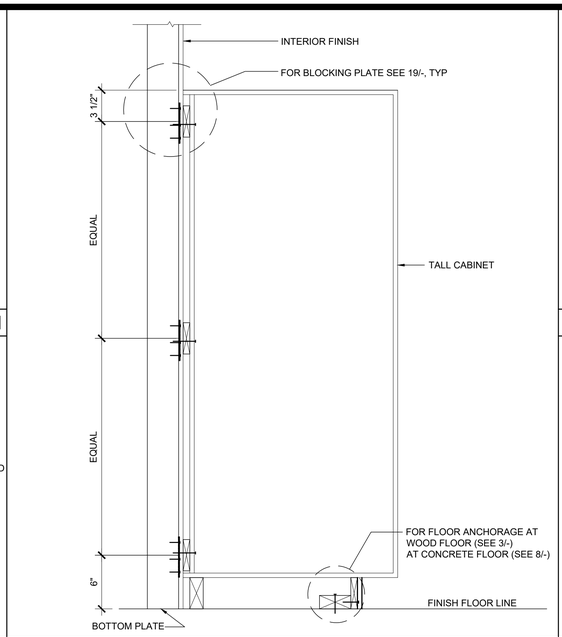
T.V. BLOCKING ATTACHMENT AT STEEL STUD

SCALE : 1/2" = 1'-0" | 17



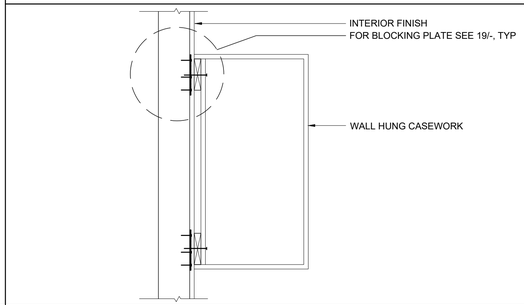
WALL OPENING AT HEADER AND JAMB

SCALE : 3"=1'-0" | 12



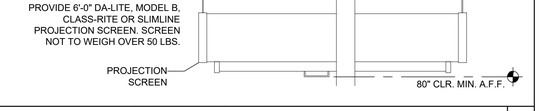
TALL CABINET WALL ANCHORAGE

SCALE : 1 1/2" = 1'-0" | 7



WALL HUNG ANCHORAGE CABINET

SCALE : 1 1/2" = 1'-0" | 2

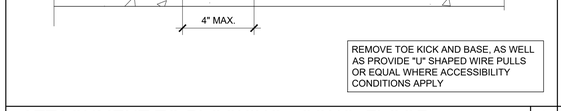


PROJECTION SCREEN MOUNTING

SCALE : NTS | 18

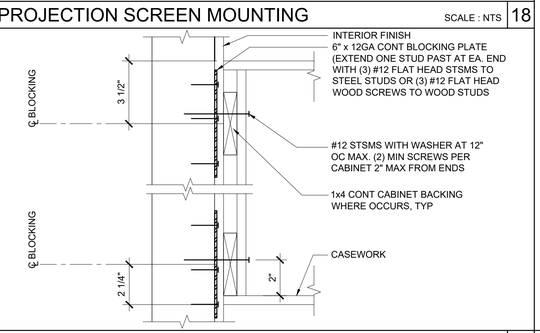
MARKER BOARD ATTACHMENT

SCALE : 3" = 1'-0" | 14



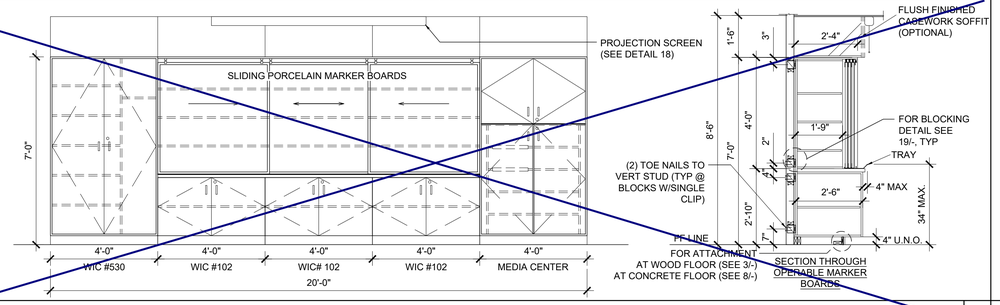
ATTACHMENT TO BLOCKING - CONC. FLOOR

SCALE : 3" = 1'-0" | 8



ATTACHMENT TO BLOCKING PLATE

SCALE : 3" = 1'-0" | 19



TEACHING WALL - ELEVATION / SECTION - OPTION

SCALE : 3/8" = 1'-0" | 15

	11	
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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CRE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ARCHITECTURAL DETAILS

MISCELLANEOUS/OPTIONS

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24075
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED
CODE: IBY16 CBC

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS

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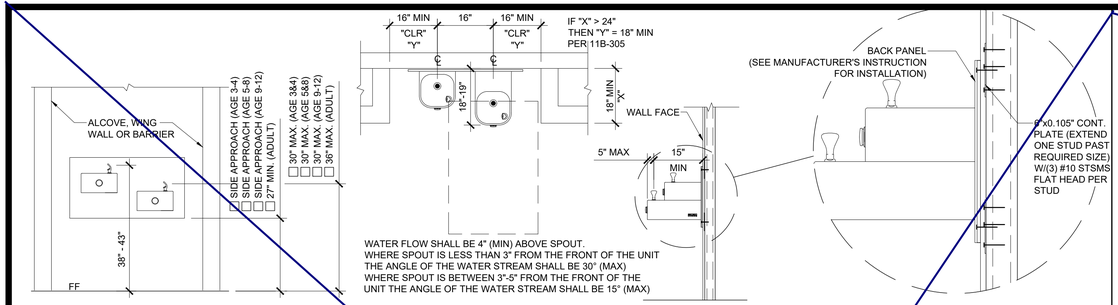
SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

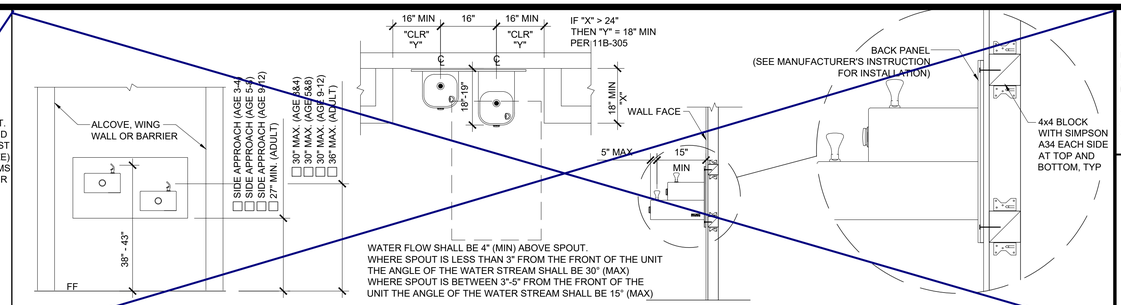
P.C. SHEET NUMBER

A-5.80

PHASE III



DRINKING FOUNTAIN BLOCKING DETAIL AT STEEL STUD — SCALE : 1/2" = 1'-0" — 11



DRINKING FOUNTAIN BLOCKING DETAIL AT WOOD STUD — SCALE : 1/2" = 1'-0" — 1

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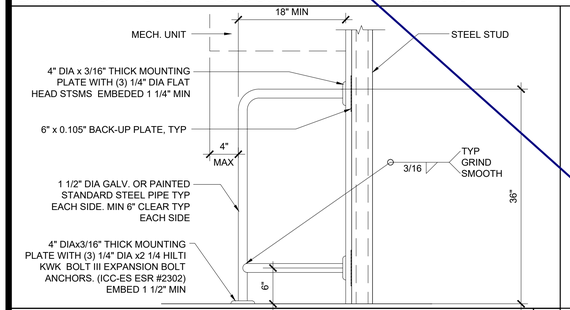
DATE: 03/27/2020

SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

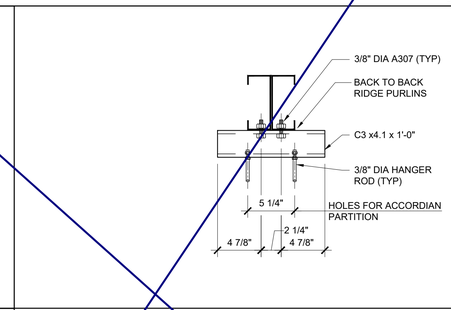
PROJECT NAME:

SHEET TITLE:

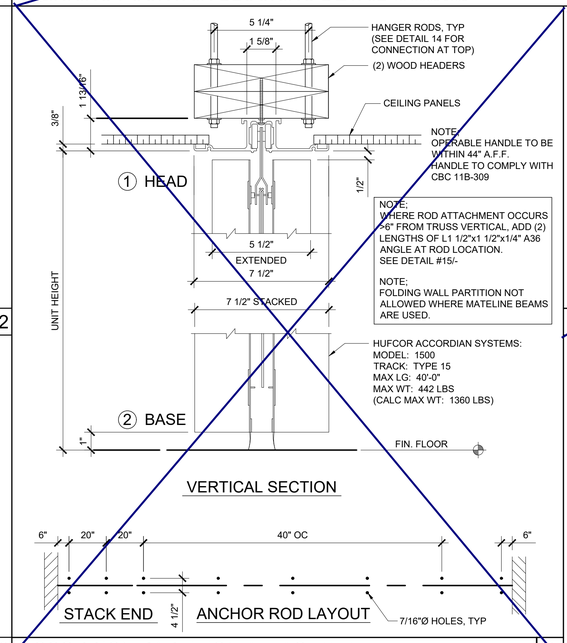
ARCHITECTURAL DETAILS
MISCELLANEOUS/OPTIONS

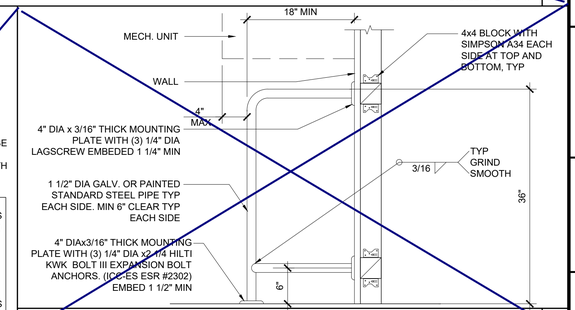


HVAC BARRIER - OPT. D.F. BARRIER AT STEEL STUD — SCALE : 1" = 1'-0" — 17



ACCORDIAN DOOR - TOP CONN AT ROOF — SCALE : 1 1/2" = 1'-0" — 12





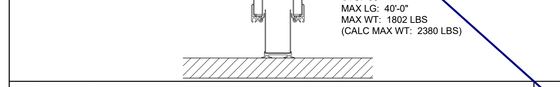
HVAC BARRIER - OPT. D.F. BARRIER AT WOOD STUD — SCALE : 1" = 1'-0" — 2

WATER HEATER SHELF AT STEEL STUD — SCALE : 1/2" = 1'-0" — 19

WATER HEATER SHELF AT WOOD STUD — SCALE : 1/2" = 1'-0" — 4

WATER HEATER BRACING AT STEEL STUD — SCALE : 1 1/2" = 1'-0" — 20

ACCORDIAN DOOR ATTACHMENT — SCALE : 3" = 1'-0" — 10



FOLDING WALL PARTITION ATTACH @ TOP UNIT — SCALE : 3" = 1'-0" — 13

WATER HEATER BRACING AT WOOD STUD — SCALE : 1 1/2" = 1'-0" — 5

ACCORDION PARTITION ATTACHMENT — SCALE : 3" = 1'-0" — 8

SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER

A-5.81

PHASE III

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS

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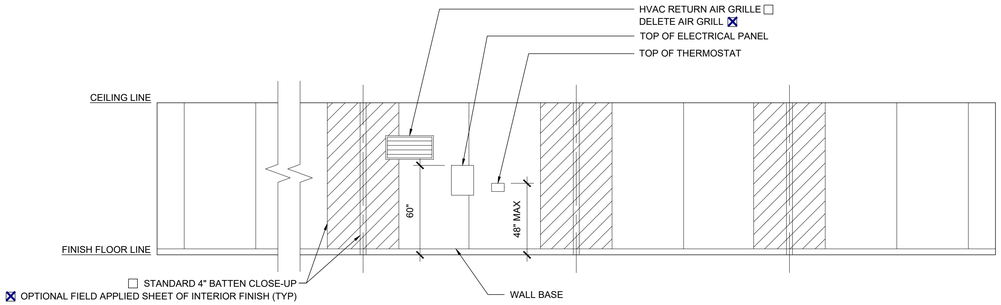
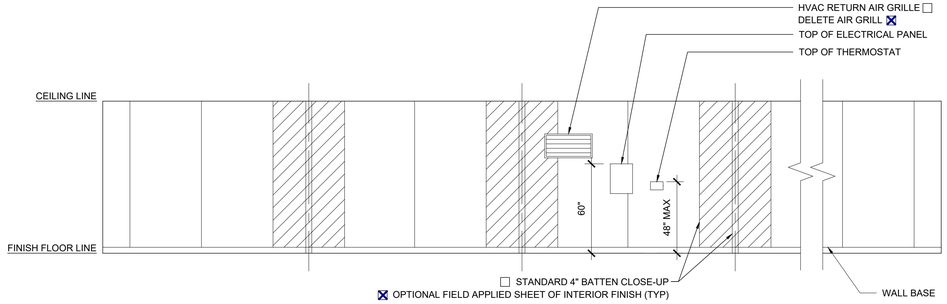
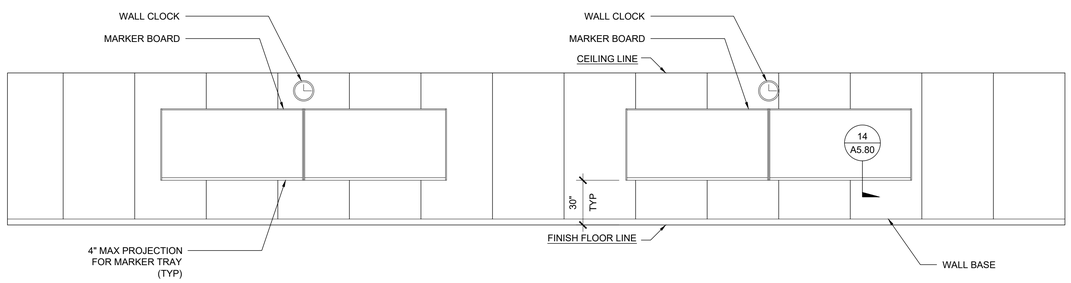


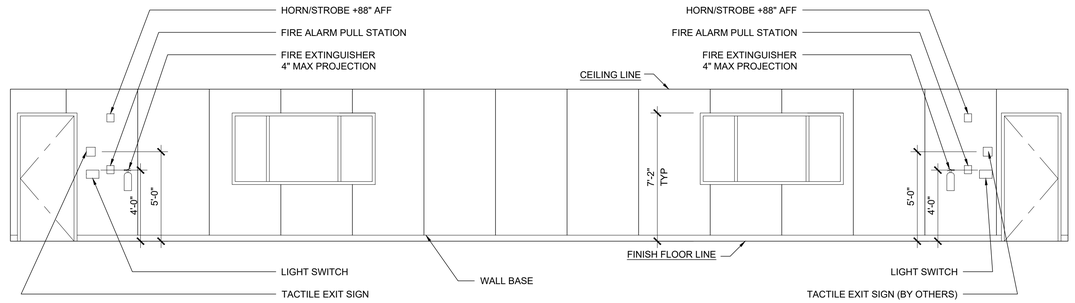
LEFT ELEVATION — SCALE: 1/4" = 1' - 0" — 3



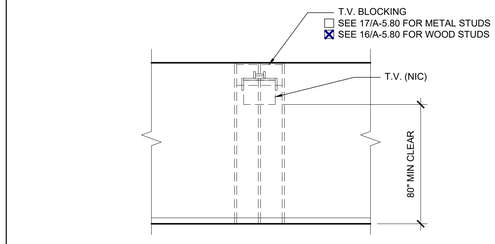
RIGHT ELEVATION — SCALE: 1/4" = 1' - 0" — 1



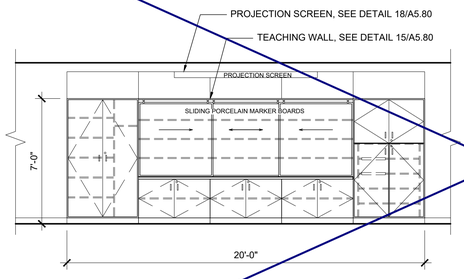
REAR ELEVATION — 4



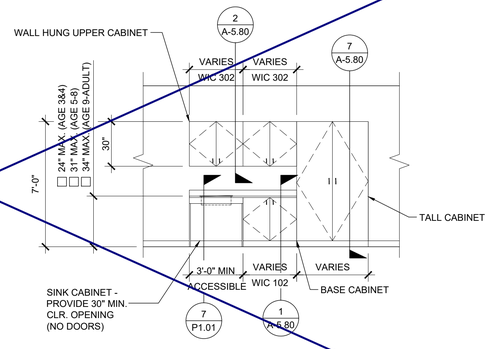
FRONT ELEVATION — SCALE: 1/4" = 1' - 0" — 2



TELEVISION BLOCKING OPTION — SCALE: 1/4" = 1' - 0" — C



TEACHING WALL OPTION — SCALE: 1/4" = 1' - 0" — B



CASEWORK OPTION — SCALE: 1/4" = 1' - 0" — A

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

INTERIOR ELEVATION
36' TO 72' x 60'

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

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SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER

A-6.04

PHASE III

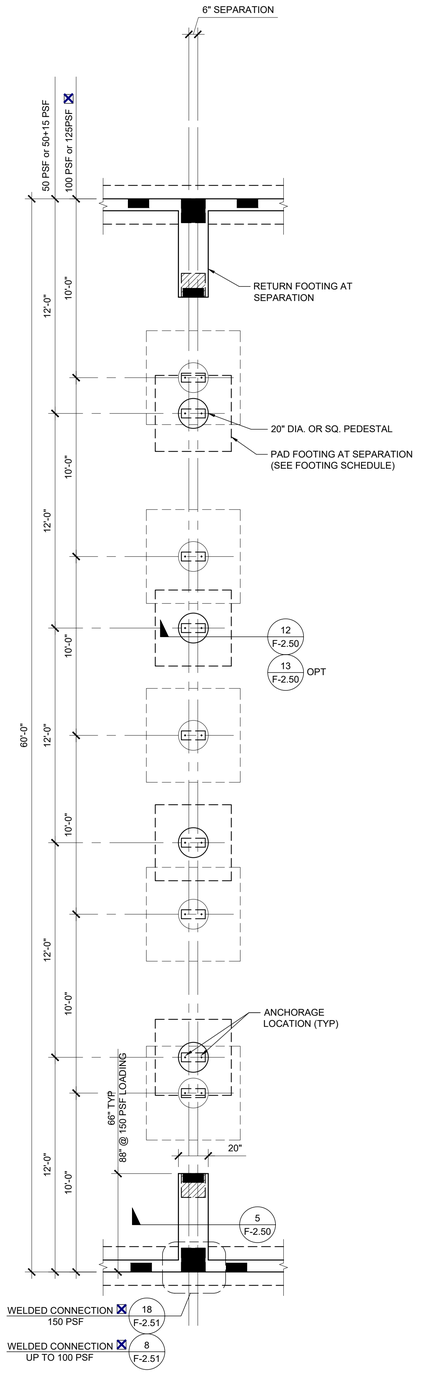
SYMBOLS LEGEND (WELDED CONNECTION)
L6" x 4" x 3/8" EMBED PLATE, SEE DETAIL 9 / F-2.51
ADDITIONAL L6" x 4" x 3/8" EMBED PLATE @ 150 PSF CONDITION ONLY, SEE DETAIL 9 / F-2.51
16" x 16" x 3/8" EMBED PLATE, SEE DETAIL 14 / F-2.51
ADDITIONAL 16" x 16" x 3/8" EMBED PLATE @ 150 PSF CONDITION ONLY, SEE DETAIL 14 / F-2.51
6" x 8" x 3/8" EMBED PLATE, SEE DETAIL 7 / F-2.50
6" x 16" x 3/8" EMBED PLATE, SEE DETAIL 12 / F-2.50

ANCHOR NOTES:
1. ANCHOR PLATES SHALL BE PLACED SUCH THAT THE FOLLOWING MINIMUM CRITERIA ARE MET:
   - ONE (1) LARGE ANCHOR PLATE AT EA. END OF EVERY MATE LINE.
   - ONE (1) ANCHOR PLATE WITHIN 35" OF OVERALL BUILDING CORNERS IN EA. DIRECTION.
2. SIDE WALL AND END WALL ANCHOR PLATES, OTHER THAN THOSE DESCRIBED IN NOTE 1, MAY BE PLACED AT ANY LOCATION ALONG THE BUILDING, BUT SHOULD BE SPACED AS EVENLY AS POSSIBLE.
3. ANCHOR PLATES WITHIN 21" OF A VENT, OPENING, OR CORNER SHALL BE REINFORCED WITH HAIRPINS PER 18/F-2.51

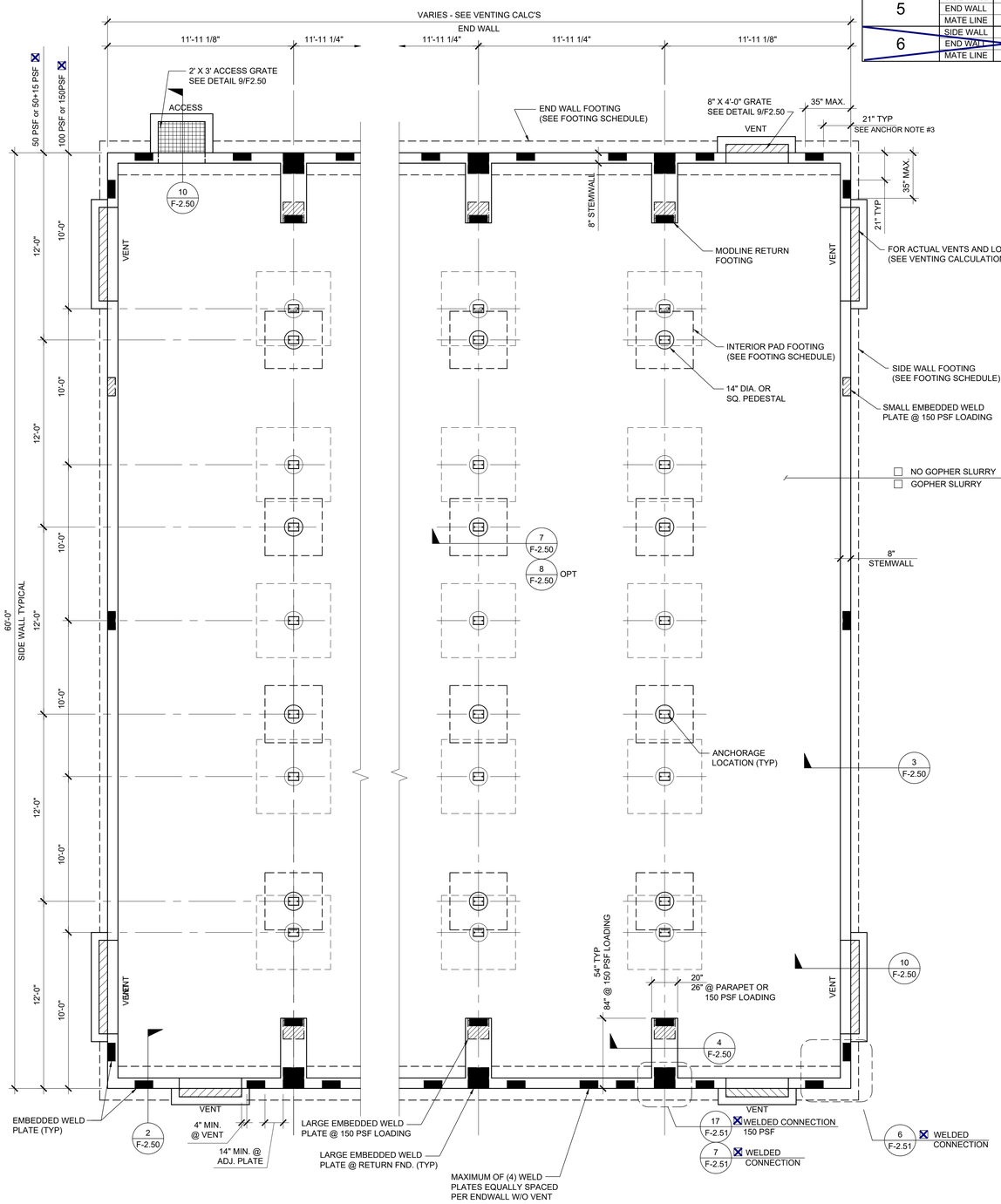
ANCHOR PLATE SCHEDULE

TOTAL NO. OF ANCHOR PLATES ALONG EACH DIRECTION
(MATE-LINE END PLATES MAY BE COUNTED IN END WALL DIRECTION)

No. OF MODULES	DIRECTION	DESIGN FLOOR LIVE LOAD: UP TO 100 PSF	DESIGN FLOOR LIVE LOAD: 150 PSF
2	SIDE WALL	3	3
	END WALL	5	5
	MATE LINE	2 LARGE	4 LARGE
3	SIDE WALL	3	3
	END WALL	8	8
	MATE LINE	2 LARGE	4 LARGE
4	SIDE WALL	3	3
	END WALL	11	11
	MATE LINE	2 LARGE	4 LARGE
5	SIDE WALL	3	3
	END WALL	14	14
	MATE LINE	2 LARGE	4 LARGE
6	SIDE WALL	3	3
	END WALL	17	17
	MATE LINE	2 LARGE	4 LARGE



FOOTING AT SEPARATION SCALE: 1/4" = 1' - 0" | 2



FOUNDATION PLAN SCALE: 1/4" = 1' - 0" | 1

VENTING SCHEDULE

VENT "A" : (8'-0" x 8" METAL SCREEN COVER)
7'-10" x 5" = 3.26 S.F. VENTILATION

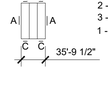
VENT "B" : (6'-0" x 8" METAL SCREEN COVER)
5'-10" x 5" = 2.43 S.F. VENTILATION

VENT "C" : (4'-0" x 8" METAL SCREEN COVER)
3'-10" x 5" = 1.59 S.F. VENTILATION

ACCESS/VENT "D" : (3'-0" x 2'-0" METAL SCREEN COVER)
2'-10" x 18" = 4.25 S.F. VENTILATION

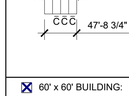
VENTING CALCULATION:

24' x 60' BUILDING: 24' x 60' = 1440 SF / 150 = 9.6 SF VENT. REQ'D



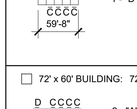
2 - "A" VENT = 6.52 SF
1 - "D" ACCESS VENT = 4.25 SF
10.77 SF TOTAL VENTILATION (> 9.6 SF)

☐ 36' x 60' BUILDING: 36' x 60' = 2160 SF / 150 = 14.4 SF VENT. REQ'D



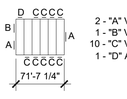
2 - "A" VENT = 6.52 SF
3 - "C" VENT = 4.77 SF
1 - "D" ACCESS VENT = 4.25 SF
15.54 SF TOTAL VENTILATION (> 14.4 SF)

☐ 48' x 60' BUILDING: 48' x 60' = 2880 SF / 150 = 19.2 SF VENT. REQ'D



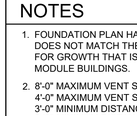
2 - "A" VENT = 6.52 SF
6 - "C" VENT = 9.54 SF
1 - "D" ACCESS VENT = 4.25 SF
20.31 SF TOTAL VENTILATION (> 19.2 SF)

☒ 60' x 60' BUILDING: 60' x 60' = 3600 SF / 150 = 24 SF VENT. REQ'D



2 - "A" VENT = 6.52 SF
1 - "B" VENT = 2.43 SF
7 - "C" VENT = 11.13 SF
1 - "D" ACCESS VENT = 4.25 SF
24.33 SF TOTAL VENTILATION (> 24 SF)

☐ 72' x 60' BUILDING: 72' x 60' = 4320 SF / 150 = 28.8 SF VENT. REQ'D



2 - "A" VENT = 6.52 SF
1 - "B" VENT = 2.43 SF
10 - "C" VENT = 15.90 SF
1 - "D" ACCESS VENT = 4.25 SF
29.10 SF TOTAL VENTILATION (> 28.8 SF)

NOTES

1. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
2. 8'-0" MAXIMUM VENT SIZE AT SIDE WALLS
   4'-0" MAXIMUM VENT SIZE AT END WALLS
   3'-0" MINIMUM DISTANCE FROM EDGE OF VENT TO STEMWALL CORNER
   2'-0" MINIMUM DISTANCE BETWEEN VENT EDGES
3. CRAWLSPACE VAPOR RETARDERS (OPTIONAL):

   THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1203.4.2(2).
   MATERIALS:
   GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
   INSTALLATION RECOMMENDATIONS:
   OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; EXTEND VAPOR RETARDER A MINIMUM OF 6 INCHES UP THE STEM WALL (MORE IS BETTER); SEAL TO ALL PIERS AND OTHER PENETRATIONS.
4. VENTILATION OPENINGS SHALL BE COVERED FOR THEIR HEIGHT AND WIDTH WITH A CORROSION-RESISTANT WIRE MESH, WITH THE LEAST DIMENSION NOT EXCEEDING 1/8".
5. SOIL BEARING PRESSURE OF 1500 PSF USED FOR DESIGN.

FOOTING SCHEDULE

DESIGN FLOOR LIVE LOAD	SIDEWALL FOOTING	ENDWALL FOOTING	INTERIOR PAD FOOTING	PAD FOOTING AT SEPARATION
☐ 50 PSF	12" WIDE (2) #5 CONT T&B	22" WIDE (4) #5 CONT T&B	3'-3" SQ (3) #5 EW	4'-3" SQ (4) #5 EW
☒ 50 + 15 PSF	12" WIDE (2) #5 CONT T&B	22" WIDE (4) #5 CONT T&B	3'-6" SQ (3) #5 EW	4'-6" SQ (4) #5 EW
☐ 100 PSF	12" WIDE (2) #5 CONT T&B	24" WIDE (4) #5 CONT T&B	3'-6" SQ (3) #5 EW	4'-6" SQ (4) #5 EW
☒ 150 PSF	16" WIDE (2) #5 CONT T&B	24" WIDE (4) #5 CONT T&B	4'-3" SQ (4) #5 EW	5'-0" SQ (5) #5 EW

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THEREOF WITHOUT THE FUL
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DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:
CONCRETE FOUNDATION PLAN
BELOW GRADE CONCRETE FLOOR

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2010 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC_RM FLS_DS SSR_KER
DATE 10/05/2018

REVISIONS
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SILVER CREEK INDUSTRIES
24' x 60' PC

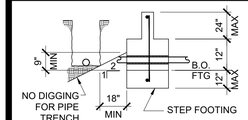
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 8-10-18

P.C. SHEET NUMBER
F-2.11

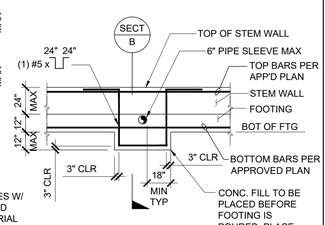
PHASE III

NOT USED 16

SECTION B



SECTION A



NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)

PIPE SLEEVE THRU FOUNDATION FOOTING SCALE : 1/4"=1'-0" 17

TYPICAL STEPPED FOOTING SCALE : 1/2"=1'-0" 18

TYPICAL REINFORCING AT CORNER AND INTERSECTIONS SCALE : 3/4"=1'-0" 19

STANDARD HOOKS FOR PRIMARY REINFORCEMENT	
BAR SIZE, No.	MINIMUM FINISHED BEND DIAMETER[a]
3 THROUGH 8	$6d_b$
9 THROUGH 11	$8d_b$
14 AND 18	$10d_b$

(a) MEASURED ON INSIDE OF BAR

STANDARD HOOKS FOR STIRRUPS AND TIE REINFORCEMENT	
BAR SIZE, No.	MINIMUM FINISHED BEND DIAMETER[b]
3 THROUGH 5	$4d_b$
6 THROUGH 8	$6d_b$

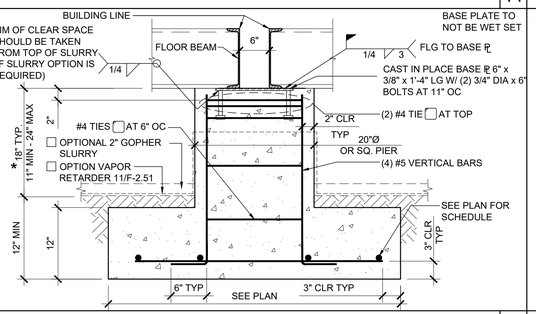
(b) MEASURED ON INSIDE OF BAR

TYP. REINF. BENDING DETAIL

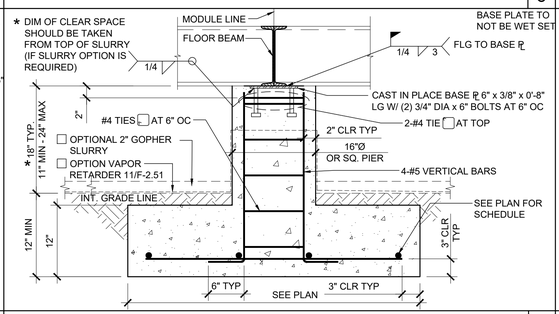
STIRRUP AND TIE HOOK STANDARD HOOK

TYPICAL REINFORCING BENDING DETAILS SCALE : 1 1/2" = 1'-0" 20

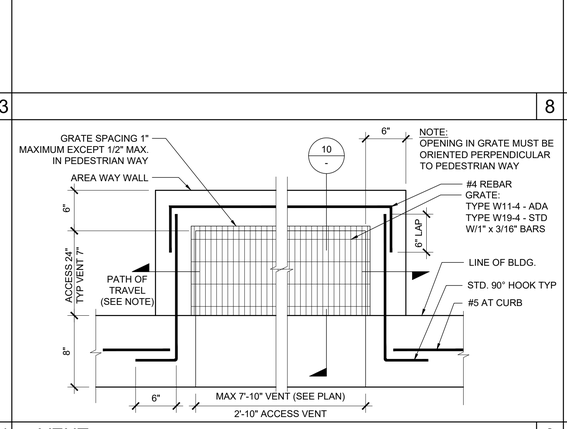
INTERIOR PAD FOOTING (AT SEPARATION) SCALE : 1" =1'-0" 12



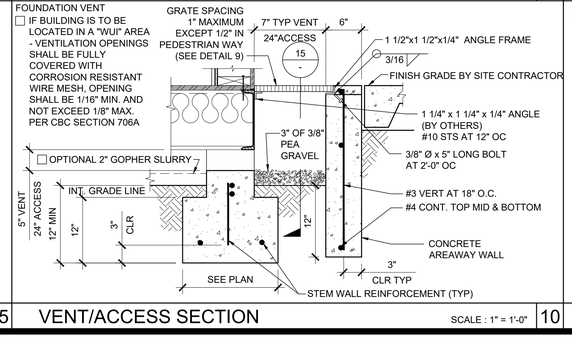
INTERIOR PAD FOOTING (ATTACHMENT AT PLATE) SCALE : 1" =1'-0" 7



VENT SCALE : 1 1/2" = 1'-0" 9



VENT/ACCESS SECTION SCALE : 1" = 1'-0" 10

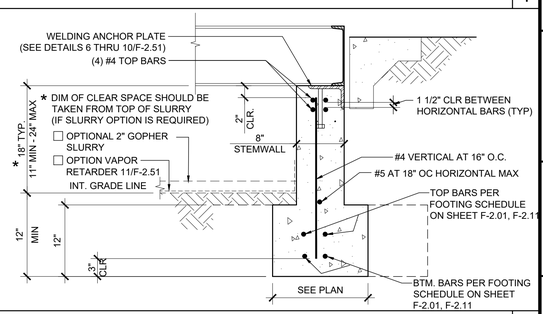


VENT OPENING SCALE : 1" = 1'-0" 15

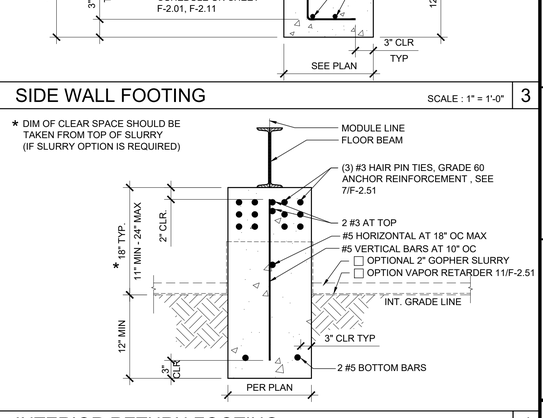
MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED) SCALE : 1 1/2"=1'-0" 14

"FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER), SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE."

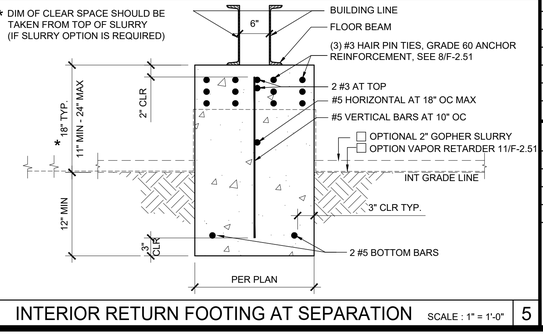
END WALL FOOTING - WELDED SCALE : 1" = 1'-0" 2



SIDE WALL FOOTING SCALE : 1" = 1'-0" 3



INTERIOR RETURN FOOTING SCALE : 1" = 1'-0" 4



INTERIOR RETURN FOOTING AT SEPARATION SCALE : 1" = 1'-0" 5

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SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

CONCRETE FOUNDATION DETAILS BELOW GRADE

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24075 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CCR1, (R1) 1/3C A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
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DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC_RM_ FLS_DS_SSR_KER
DATE 10/05/2018

REVISIONS

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SILVER CREEK INDUSTRIES
24' x 60' PC

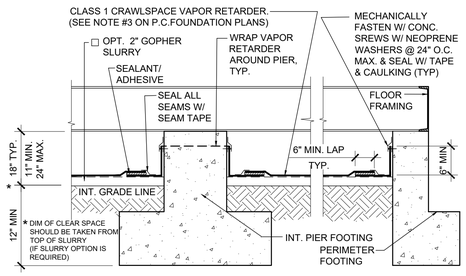
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 8-10-18

P.C. SHEET NUMBER

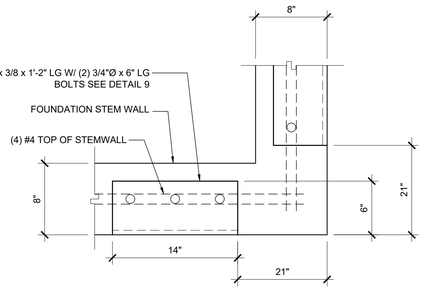
F-2.50

- - HIGH SEISMIC - -

PHASE III



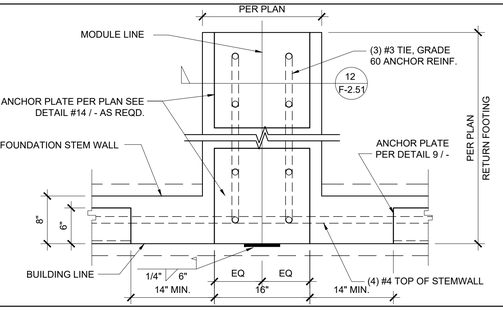
16 CRAWL SPACE VAPOR RETARDER SCALE: 3/4" = 1' - 0"



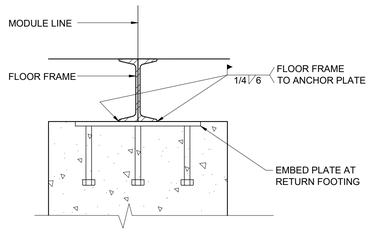
11 ANCHOR PLATE AT CORNER SCALE : 1 1/2" = 1'-0"

6

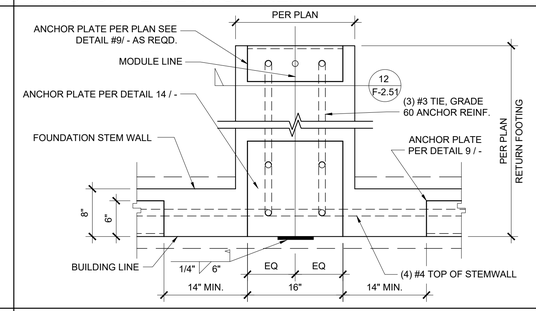
1



17 ANCHOR PLATE AT MODLINE, 150 PSF SCALE : 1" = 1'-0"

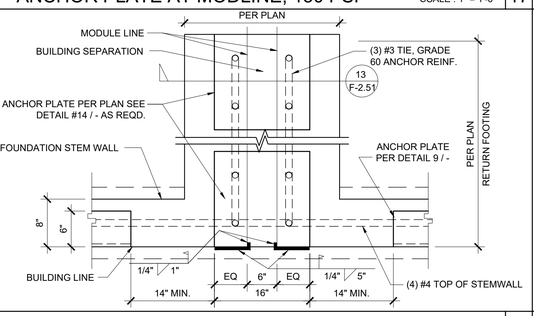


12 EMBED WELDING AT RETURN FOOTING SCALE : 1 1/2 = 1'-0"

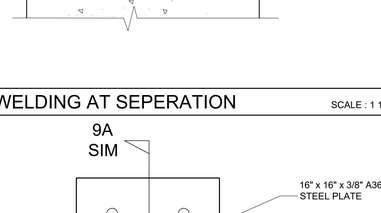


7 ANCHOR PLATE AT MODULE LINE UP TO 100 PSF SCALE : 1" = 1'-0"

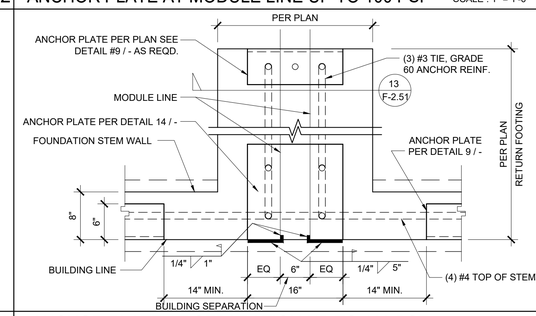
2



18 ANCHOR PLATE AT SEPARATION, 150 PSF SCALE : 1" = 1'-0"

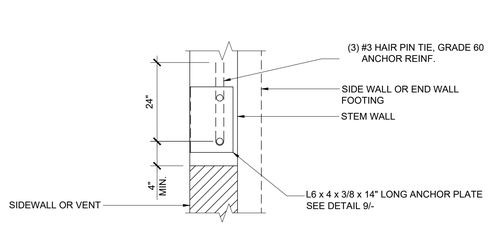


13 EMBED WELDING AT SEPERATION SCALE : 1 1/2 = 1'-0"

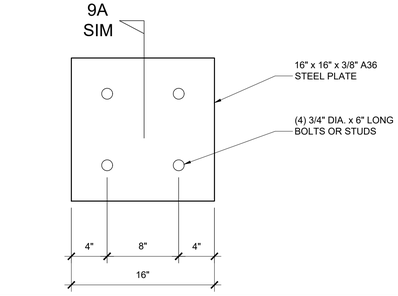


8 ANCHOR PLATE AT SEPARATION UP TO 100 PSF SCALE : 1" = 1'-0"

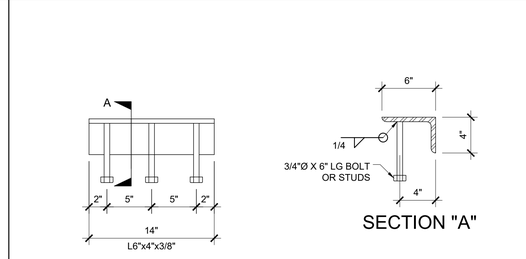
3



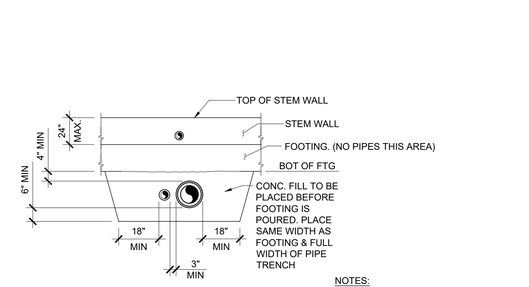
19 ANCHOR PLATE AT SIDEWALL OR ENDWALL @ VENT



14 LARGE EMBEDDED PLATE DETAIL SCALE : N.T.S.

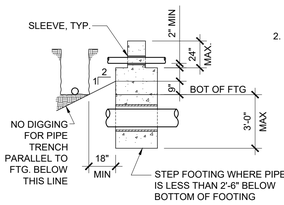


9 WELD ANGLE DETAIL SCALE : 1 1/2" = 1'-0"



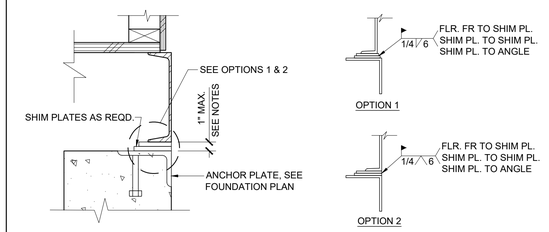
NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)
2. IF PIPE IS IN PLACE PRIOR TO POURING CONCRETE, WRAP PIPE WITH 1" GLASS WOOL OR POLYSTYRENE TAPE BEFORE POURING CONCRETE IN LIEU OF SLEEVES



PIPE SLEEVE DETAIL SCALE : 1/4 = 1'-0"

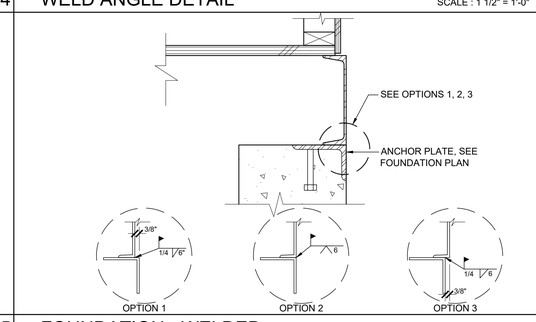
5



NOTES;
SHIM PLATE MAY BE SINGLE PLATE OR COMBINATION OF MULTIPLE PLATES.
MIN.SHIM THICKNESS IS 1/4".
MAX. SHIM HEIGHT IS 1".
GAPS UP TO 1/4" DO NOT REQ. SHIM PLATE.

20 FOUNDATION WELDING W/ SHIM PLATES

15



FOUNDATION - WELDED SCALE : 1 1/2" = 1'-0"

10

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Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

FOUNDATION DETAILS CONCRETE

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE 2016 CBC
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FILE NUMBER: 33-SILVER
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AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS

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SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER

F-2.51

PHASE III

STRUCTURAL SPECIFICATIONS

FOUNDATIONS:

GEOTECHNICAL INVESTIGATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH SECTIONS 1803A.3 THROUGH 1803A.8. EXCEPTIONS, 1) GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY, WOOD-FRAME AND LIGHT-STEEL-FRAME BUILDINGS OF TYPE II OR TYPE V CONSTRUCTION AND 4,000 SQUARE FEET OR LESS IN FLOOR AREA, NOT LOCATED WITHIN EARTHQUAKE FAULT ZONES OR SEISMIC HAZARD ZONES AS SHOWN IN THE MOST RECENTLY PUBLISHED MAPS FROM THE CALIFORNIA GEOLOGICAL SURVEY (CGS) OR IN SEISMIC HAZARD ZONES AS DEFINED IN THE SAFETY ELEMENT OF THE LOCAL GENERAL PLAN, 2) A PREVIOUS REPORT FOR A SPECIFIC SITE MAY BE RESUBMITTED, PROVIDED THAT A REEVALUATION IS MADE AND THE REPORT IS FOUND TO BE CURRENTLY APPROPRIATE. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2 PER CBC SECTION 1803A.2

CONCRETE

PROVIDE NECESSARY SHIMS ON FOOTINGS NOT LEVEL WITHIN THE 1/2" ALLOWABLE TOLERANCE. THE DISTRICT SHALL PROVIDE CLEAR AND UNOBSTRUCTED ACCESS TO THE SITE. THE DISTRICT IS RESPONSIBLE FOR ALL SURVEYING, STAKING THE BUILDING CORNERS, SETTING THE FINISH FLOOR ELEVATION, RIGGING, CRANING, EXCAVATION, SPOIL REMOVAL, AND BACKFILL.

THE FOUNDATION AND THE METHOD OF FASTENING THE UNITS SHALL BE AS SHOWN ON DRAWINGS WHERE APPLICABLE. HIGH STRENGTH GROUT SHALL BE EMBECO 885 NON-SHRINK, METALLIC AGGREGATE GROUT OR A DSA APPROVED EQUAL.

THE DESIGN OF CONRETE FOUNDATIONS WILL BE AS FOLLOWS:

1. FURNISH AND INSTALL ALL CONCRETE WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
2. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN AND / OR THE DETAILS ON THE DRAWINGS, ALL WORK INCLUDED IN THIS SECTION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF CODES AND STANDARDS.
   a) ALL WORK AND MATERIALS SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND CHAPTER 19A.
   b) AMERICAN CONCRETE INSTITUTE (ACI): BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI318-11.
   c) SOCIETY FOR TESTING AND MATERIALS (ASTM): THE SPECIFICATIONS AND STANDARDS HEREINAFTER REFERENCED TO SHALL BE OF THE LATEST EDITION.
3. CONCRETE FOUNDATION TESTS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT AND OR INSPECTOR.
4. DESIGN MIXES SHALL BE AS SPECIFIED IN TITLE 24. CONCRETE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS: (UNLESS REQUIRED OTHERWISE PER ACI 318-11 TABLE 4.3.1).
   CONCRETE COMPRESSIVE STRENGTH F'C= 3500 PSI
   WATER-CEMENT RATIO SHALL NOT EXCEED 0.60 BY WEIGHT
   PORTLAND CEMENT TYPE I
   NORMAL WEIGHT
5. FORMS SHALL BE SUBSTANTIAL, PLUMB, LEVEL, SQUARE, TRUE TO LINE, WATER TIGHT AND ACCURATE TO THE DIMENSIONS REQUIRED.
6. THE ARCHITECT SHALL APPROVE LOCATION OF:
   a) OPENINGS FOR MECHANICAL AND ELECTRICAL; PROVIDE FOR OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED AND INSTALL SLEEVES AS MAY BE REQUIRED.
   b) OPENINGS FOR VENT WELLS FOR UNDER FLOOR VENTILATION; PROVIDE FOR ALL OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED. INSTALL ALL SLEEVES AS MAY BE REQUIRED.
7. VARIANCE IN CONCRETE SLAB SURFACE SHALL BE NO MORE THAN 1/16" IN 10 FEET
8. ALL CEMENT SHALL BE TYPE 1 OR 11 PER ASTM C-150. (UNLESS REQUIRED OTHERWISE PER CBC 1802A.2.3
9. WATER CONTENT SHALL NOT EXCEED 7 1/4 GALLONS PER SACK OF CEMENT (UNLESS REQUIRED OTHERWISE PER ACI 318-11 TABLE 4.3.1)
10. AGGREGATE SHALL BE 3/4" TO 1 1/2" MAXIMUM SIZE BUT NOT MORE THAN 3/4" OF MINIMUM CLEAR BAR SPACING
11. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED "WET SETTING" IS NOT ALLOWED.
12. REFER TO ARCHITECTURAL, ELECTRICAL, AND MECHANICAL PLANS FOR SLEEVES, INSERTS CURBS, DEPRESSED AREAS, AND ETC.
13. CONCRETE MIX REQUIRED: CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN FOR FOOTINGS TO PROFESSIONAL OF RECORD FOR APPROVAL PRIOR TO POURING CONCRETE.

1705A.3.3. WAIVER OF BATCH PLAN INSPECTION.

A. WHEN BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS SHALL APPLY:

1. QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCHING AT THE START OF DAY.
2. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A TICKET.
3. BATCH TICKETS, INCLUDING ACTUAL MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD AND SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK , IT'S LOAD, TIME OF RECEIPT AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.

REINFORCING STEEL:

1. MATERIAL: ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 MIN. GRADE 60. EXCEPT #3 ANCHOR REINFORCEMENT SHALL BE GRADE 40.
2. SPLICES: ALL SPLICES SHALL BE LAPPED A MINIMUM 48" #5 BARS AND 30" #4 BARS UNLESS OTHERWISE DETAILED.
3. REINFORCING FABRICATION AND PLACEMENT: FABRICATION AND PLACING OF REINFORCING SHALL CONFORM TO THE "CODE OF STANDARD PRACTICE AND SPECIFICATIONS FOR PLACING REINFORCEMENT OF THE CONCRETE REINFORCING STEEL INSTITUTE".
4. MINIMUM COVERAGE: ALL REINFORCING SHALL HAVE THE FOLLOWING MINIMUM COVERAGE WITH CONCRETE:

LOCATION	AMOUNT
FORMED EARTH	2"
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
WALL-EXPOSED FACE	
#5 OR SMALLER	2"
#6 OR LARGER	2"
WALL-UNEXPOSED FACE	3/4"

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL OTHER THAN TUBE AND PIPE COLUMNS SHALL CONFORM TO ASTM A-36.
2. TUBE COLUMNS SHALL CONFORM TO ASTM A500 GRADE B, OR A1085
3. PIPE COLUMNS SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPE E OR S, GRADE B. OR A1085
4. TUBE STEEL USED FOR RAMPS & STAIRS SHALL CONFORM TO ASTM A513 GRADE MT1020 OR BETTER

STEEL FRAME BUILDING/STEEL FRAME CONSTRUCTION SHALL MEET THE MINIMUM DESIGN REQUIREMENTS OF STUD SPACING, ETC. PER LATEST EDITION OF 2016 CALIFORNIA BUILDING CODE. ALL WORK AND MATERIALS SHALL CONFORM TO THE "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," AMERICAN INSTITUTE OF STEEL CONSTRUCTION: TITLE 24, CCR, AND UNIFORM BUILDING CODE. STRUCTURAL STEEL SHALL BE MADE EITHER THE OPEN-HEARTH OR ELECTRIC FURNACE PROCESS ONLY AND SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL STEEL" ASTM DESIGNATION A36, CURRENT EDITION.

ROOF FRAMING, FLOOR FRAMING, AND WALL FRAMING SHALL BE PER MANUFACTURER'S PC PLANS AND PER APPLICABLE CODES.

ALL STRUCTURAL MEMBERS BELOW THE SUB-FLOOR, IE, GIRDERS, JOISTS, HEADERS, BLOCKING, SHALL BE STEEL. MINIMUM JOIST SPACING SHALL BE PER PLAN.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC STANDARD SPECIFICATIONS, THE APPLICABLE REGULATORY AGENCY AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OR LIGHT GAUGE STEEL STRUCTURAL MEMBERS. WELDING: SHALL COMPLY WITH THE PERTINENT PROVISIONS OF THE APPLICABLE REGULATORY AGENCY. ALL WELDING SHALL BE DONE BY OPERATORS WHO ARE QUALIFIED AS PRESCRIBED IN THE "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY TO PERFORM THE TYPE OF WORK REQUIRED.

STEEL SHALL BE COATED WITH ONE SHOP COAT OF MANUFACTURER'S STANDARD CHASSIS PAINT OR EQUAL.

BOLTS:

ALL COMMON BOLTS AND ANCHOR BOLTS SHALL CONFORM TO ASTM A-307.

STRUCTURAL WELDING: SPECIAL INSPECTOR REQUIRED

GENERAL: DURING THE WELDING OF ANY MEMBER OR CONNECTION THAT IS DESIGNED TO RESIST LOADS AND FORCES REQUIRED BY THIS CODE.

ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT/LBS AT MINUS 20 DEGREES F AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

ALL STRUCTURAL WELDING SHALL BE BY "ELECTRIC ARC PROCESS" PER AWS STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. ALL LIGHT GAUGE STEEL (SHEET STEEL) SHALL BE WELDED PER AWS D1.3. ALL REINFORCING STEEL SHALL BE WELDED WITH LOW HYDROGEN RODS PER AWS D1.4, OR REINFORCING STEEL SHALL CONFORM TO ASTM A-706. ALL SHOP WELDED MUST BE PERFORMED BY "APPROVED" WELDERS IN A SHOP OF A LICENSED FABRICATOR. ALL FIELD WELDING SHALL BE PERFORMED BY "APPROVED" WELDERS. ELECTRODES SHALL BE E70XX FOR STRUCTURAL STEEL AND REBAR AND SHALL BE E60XX FOR LIGHT GAUGE STEEL. * (SEE OPTIONAL PROCESS)

THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDED THE MATERIALS, WELDING PROCEDURES AND QUALIFICATION OF WELDERS ARE VERIFIED PRIOR TO THE START OF WORK: PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS, AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO SHIPMENT OF SHOP WELDING.

a) FLOOR AND ROOF DECK WELDING.
b) WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGM OR COMPOSITE SYSTEMS.
c) WELDED SHEET STEEL FOR COLD-FRAMED STEEL FRAMING MEMBERS SUCH AS STUDS AND JOISTS WHICH ARE NOT PART OF AN ORDINARY MOMENT FRAME.
d) SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16".

MATERIAL SHALL BE IDENTIFIED BY MARKING OR STAMPING THE I.D. NUMBER ON STRUCTURAL STEEL COMPONENTS BY LICENSED FABRICATION SHOP.

ALL BUTT, BEVEL, GROOVE, VEE, U AND J WELDS SHALL BE PREQUALIFIED COMPLETE PENETRATION WELDS.

FILLER MATERIAL FOR WELDING: SHIELDED METAL-ARC: AWS A5.1 OR 15.5 E70XX ELECTRODES.

HOLES IN STRUCTURAL STEEL SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

STRUCTURAL STEEL SHALL BE THOROUGHLY CLEANED BY SCRAPING OR WIRE BRUSHING AND SHOP PRIMED.

ALL STEEL WORK, INCLUDING WELD AND CONNECTIONS EXCEPT WHERE ENTIRELY ENCASED IN CONCRETE SHALL BE GIVEN ONE COAT OF ACCEPTABLE METAL PROTECTION WELL WORKED INTO JOINTS AND OPEN SPACES.
* OPTIONAL USE OF: FCAW PROCESS: E71T-8 FOR STRUCTURAL/REBAR (MEETS ALL CHARPY REQUIREMENTS)
E71T-11 FOR METAL DECKING

COLD-FORMED STEEL FRAMING:
STRUCTURAL LIGHT GAUGE STEEL FRAMING AND ACCESSORIES SHALL BE FABRICATED IN ACCORDANCE WITH ASTM A-1011/A GRADE AS LISTED BELOW, SEE PLAN FOR MINIMUM YIELD.
MATERIAL THICKNESS 11GA OR LESS: ASTM A-1011/A GRADE 33 (UNO)
MATERIAL THICKNESS 10GA OR GREATER: ASTM A-1011/A GRADE 40

SHEET STEEL DESIGNATION (GAUGE)	MINIMUM DELIVERED THICKNESS (INCHES)
26	0.017
22	0.029
20	0.034
18	0.046
16	0.057
14	0.071
12	0.100
11	0.114
10	0.128

LIGHT GAUGE STEEL STUDS AND TRACKS SHALL COMPLY WITH ASTM A-1003 STRUCTURAL GRADE 33 TYPE H

ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL". QUALIFICATION OF WELDERS SHALL BE IN ACCORDANCE WITH AWS D1.1, CHAPTER 5, PART C, "WELDER QUALIFICATIONS".

BOLTS, SCREWS, ETC. EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED

MACHINE BOLTS USED SHALL CONFORM TO SPECIFICATIONS OF ASTM STANDARD A-307.

NTD:
(b) CJP GROOVE WELD NDT
ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16 in. (8mm) THICK OR GREATER. ULTRASONIC TESTING IN MATERIALS LESS THAN 5/16 in. (8 mm) THICK IS NOT REQUIRED. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.

WOOD:

FRAMING: ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY AND SHALL BE OF THE FOLLOWING MINIMUM GRADES OR BETTER, PER WCLB RULES #16.
PLATES AND BLOCKING - STANDARD GRADE OR BETTER
STUDS AND HEADER = HF #2, OR DF #2, OR BETTER

SHEATHING:

AMERICAN PLYWOOD ASSOCIATION PS 1-07. EACH SHEET SHALL BE GRADE MARKED BY THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL CONFORM TO THE REQUIREMENTS OF STANDARD GRADE GROUP 1 OR BETTER GRADE STAMPED AND IDENTIFIED UNDER THE PROCEDURES AND QUALIFICATIONS SET FORTH BY PS 1-07.

1. PLYWOOD SUB FLOOR: 1 1/8" T&G UNBLOCKED PLYWOOD. PROVIDE SEAMLESS WOVEN POLYFLEX BOTTOM BOARD FOR MOISTURE PROTECTION
2. OPTIONAL PLYWOOD ROOF DECK: APA RATED 3/4" T&G OSB OR EQUIVALENT RATED SHEATHING WITH APPROVAL FROM DSA
3. EXTERIOR WALL SIDING:
   i. STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL
   ii. OPTIONAL: 5/8" MDO
   iii. OPTIONAL: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH
4. EXTERIOR WALL SIDING ATTACHMENT:
   FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE HOT-DIPPED GALVANIZED, MECHANICALLY DEPOSITED ZINC-COATED, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC SECTION 2304.10.1.1

TREATED WOOD:

ALL WOOD INCLUDING WOOD SHEATHING IN CONTACT WITH CONCRETE OR MASONRY AND LOCATED LESS THAN 18" FROM EXPOSED EARTH SHALL BE "PRESERVATIVE TREATED" OR SHALL BE "NATURALLY DURABLE" MATERIAL PER (CBC SECTION 2304.12.1.2).

1. ALL ROUGH LUMBER SHALL BE DF #2 OR BETTER.
2. WOOD FASTENERS OTHER THAN SCREWS.
   ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, AND RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.
3. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC 2304.10.5.1

CONTINUOUS INSPECTION:

PROJECT INSPECTOR TO PROVIDE CONTINUOUS FIELD INSPECTION.

IN-PLANT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION IN-PLANT

METALS, STRUCTURAL, AND MISC. STEEL:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND SERVICES REQUIRED FOR STRUCTURES AND MISCELLANEOUS STEEL AS SPECIFIED AND INDICATED IN THE DRAWINGS.

STEEL SHEETS: STEEL SHEETS FOR LIGHT GAUGE STEEL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-1011/A, GRADE 40 U.O.N. SHEET METAL GRAVEL STOPS AND FLASHINGS SHALL BE MINIMUM 0.030 THICKNESS AND SHALL BE GALVANIZED.

ERECTION:
ALL STRUCTURAL STEEL SHALL BE ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNED LOCATION. TEMPORARY BRACING OR SHORING SHALL BE INSTALLED WHEREVER NECESSARY TO TAKE CARE OF LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING ERECTION EQUIPMENT AND THE OPERATION OF SAME. CONNECTIONS SHALL BE ADEQUATE TO WITHSTAND STRESSES TO WHICH THEY ARE NORMALLY SUBJECTED. CONNECTIONS SHALL BE STEEL, EXCEPT AS OTHERWISE NOTED. FIELD CONNECTIONS SHALL BE BOLTED OR WELDED AS SHOWN ON THE DRAWINGS.

SHOP PAINT:

* EXPOSED STEEL COATED WITH ONE SHOP COAT OF PRIMER.
* NON-EXPOSED STEEL COATED WITH ON SHOP COAT OF PRIMER.
* ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.

POWER DRIVEN FASTENERS FOR SILL PLATE, WOOD NAILERS TO STEEL COLUMNS, AND SHEET METAL TO STRUCTURAL STEEL:

ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, OR RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.

WOOD ROUGH CARPENTRY:

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS AND STEPS NECESSARY TO PROTECT ALL COMPLETED, SEMI-COMPLETED, AND TEMPORARY WORK FROM COMMENCEMENT OF PROJECT TO COMPLETE, SEMI-COMPLETION OF SAME ANY PORTION OF THE WORK DAMAGED OR DISFIGURED SHALL BE SATISFACTORILY REPAIRED OR REPLACED AND THE WORK AS A WHOLE LEFT WITHOUT BLEMISH AT FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY MEASUREMENTS AT THE BUILDING, THE ACCURATE FITTING OF ALL WORK AND PROPER ACCOMMODATION OF OTHER TRADES.

DESCRIPTION OF WORK:
THIS SECTION INCLUDES FURNISHING OF ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES TO COMPLETE ROUGH CARPENTRY AS INDICATED IN THE DRAWINGS AND AS SPECIFIED HEREIN.

WORKMANSHIP:
ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE, SHALL BE ACCURATE AS TO MEASUREMENT AND SHALL BE CAREFULLY DONE. PLYWOOD SHEATHING SUBFLOOR SHALL PROVIDE A SMOOTH UNIFORM SURFACE CAPABLE PROPERLY ACCEPTING A CARPET FINISH.

ROOF DIAPHRAGM:
3/4" T&G APA RATED SHEATHING - STRUCTURE 1 EXPOSURE 1
SPAN RATING 48/24 MIN.
FASTEN TO SHEET METAL SUPPORTS W/ #10 x 1 1/4" LG. SELF DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS AT 4" OC AT BOUNDARIES, 6" OC AT EDGES, AND 12" OC FIELD NAILS. MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.

FLOOR DIAPHRAGM:
1 1/8" PLYWOOD - STURD-I-FLOOR
EXTERIOR - TONGUE AND GROOVE EDGES
SPAN RATING: 48"
FASTEN TO SHEET METAL SUPPORTS W/ #10 - 24 x 1 3/4 LG. SELF-DRILLING, SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.

CONCRETE FLOOR DATA: LIGHTWEIGHT CONCRETE FLOOR
STRENGTH: 3500 PSI or 4000 PSI
TYPE: I OR II
DENSITY: 110 PCF - MAX

DIMENSION LUMBER ATTACHMENT TO STEEL FRAMING:
2 x STUDS AT CORNER STEEL COLUMNS (NAILING STUD)
USE: #10 - 24 x 2 1/2" LG. SELF-DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD WITH WASHER ZINC COATED TEK SCREWS AT 24" O.C.

REFERENCE STANDARDS NOTES:

INTENT OF DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE STATE OF CALIFORNIA, CALIFORNIA CODE OF REGULATIONS, PART 1, 2, 3, 4, 5, 6, 9, AND 12. SUB-CHAPTER 1. CALIFORNIA BUILDING CODE, 2016 EDITION, MANUAL OF STEEL CONSTRUCTION, (AISC) 14TH EDITION, AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE, AWS D1.1, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION STANDARD, (AITC) 109 ARCHITECTURAL SHEET METAL MANUAL, AIA FILE NO. 12-L (SMACNA) LATEST ADOPTED EDITION UNLESS OTHERWISE NOTED.

WORKMANSHIP:
WORKMANSHIP AND MATERIALS SHALL BE SUCH THAT BUILDING WILL BE WEATHERTIGHT AND WATERTIGHT.

INSPECTIONS:
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

CHANGES:
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

NAILING NOTES:
1. ALL NAILS SHALL BE COMMON UNLESS OTHERWISE NOTED
2. MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO THE SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH. THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.

CONNECTION AND FASTENERS:
ALL CONNECTIONS AND FASTENERS AS STATED ON THESE DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT WITH ICC REPORTS AND APPROVAL BY DSA.

CONNECTION OF LAG SCREWS:
AS REQUIRED PER ANSI / AF&PA NDS-2012, LAG SCREWS MUST BE INSTALLED INTO A PRE-DRILLED PILOT HOLE WITH A STANDARD WASHER AND TURNED WITH A WRENCH. DO NOT DRIVE IN WITH A HAMMER. OVER-TORQUING CAN SIGNIFICANTLY REDUCE THE LATERAL RESISTANCE OF THE LAG SCREW AND SHOULD BE AVOIDED.

FASTENING SCHEDULE CBC - TABLE 2304.10.1

CONNECTION	FASTENING[a,m]	LOCATION
1. JOIST TO SILL OR GIRDER	3 - 8d COMMON 3 - 3" x 0.131" NAILS	TOENAIL
2. BRIDGING TO JOIST	2 - 8d COMMON (2 1/2" x .131") 2 - 3" x 0.31" NAILS	TOENAIL EACH END
3. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2 - 8d COMMON (2 1/2" x .131")	FACE NAIL
4. WIDER THAN 1" x 6" SUBFLOOR TO EACH JOIST	3 - 8d COMMON (2 1/2" x .131")	FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	2 - 16d COMMON	BLIND AND FACE NAIL
6. SOLE PLATE TO JOIST OR BLOCKING	16d(3 1/2" x .135") AT 16" O.C. 3"x0.131" NAILS AT 8" O.C.	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLKING AT BRACED WALL PANEL	3 - 16d(3 1/2" x .135") AT 16" O.C. 4 - 3"x0.131" NAILS AT 16" O.C.	BRACED WALL PANELS
7. TOP PLATE TO STUD	2 - 16d COMMON (3 1/2" x 0.162") 3 - 3"x0.031" NAILS	END NAIL
8. STUD TO SOLE PLATE	4 - 8d COMMON (2 1/2"x0.131") 4 - 3"x0.131" NAILS	TOENAIL
	2 - 16d COMMON (3 1/2"x0.162") 3 - 3"x0.131" NAILS	END NAIL
9. DOUBLE STUDS	16d (3 1/2"x0.135") AT 24" O.C. 3"x0.131" NAILS AT 12" O.C.	FACE NAIL
10. DOUBLE TOP PLATES	16d (3 1/2"x0.135") AT 16" O.C. 3"x0.131" NAILS AT 12" O.C.	TYPICAL FACE NAIL
DOUBLE TOP PLATES	8 - 16d COMMON (3 1/2"x0.162") 12 - 3"x0.131" NAILS	LAP SPLICE
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3 - 8d COMMON (2 1/2"x0.131") 3 - 3"x0.131" NAILS	TOENAIL
12. RIM JOIST TO TOP PLATE	8d (2 1/2"x0.131") AT 6" O.C. 3"x0.131" NAIL AT 6" O.C.	TOENAIL
13. TOP PLATES, LAPS, AND INTERSECTIONS	2 - 16d COMMON (3 1/2"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON (3 1/2"x0.162")	16" OC ALONG EDGE
15. CEILING JOISTS TO PLATE	3 - 8d COMMON (2 1/2"x0.131") 5 - 3"x0.131" NAILS	TOENAIL
16. CONTINUOUS HEADER TO STUD	4 - 8d COMMON (2 1/2"x0.131")	TOENAIL
17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3 - 16d COMMON (3 1/2"x0.162") MIN TABLE 2308.10.4.1 4 - 3"x0.131" NAILS	FACE NAIL
18. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3 - 16d COMMON (3 1/2"x0.162") MIN TABLE 2308.10.4.1 4 - 3"x0.131" NAILS	FACE NAIL
19. RAFTER TO PLATE (SEE SECTION 2308.10.1, TABLE 2308.10.1	3 - 8d COMMON (2 1/2"x0.131") 3 - 3"x0.131" NAILS	FACE NAIL
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	2 - 8d COMMON (2 1/2"x0.131") 2 - 3"x0.131" NAILS	FACE NAIL
21. 1" x 8" SHEATHING TO EACH BEARING	3 - 8d COMMON (2 1/2"x0.131")	FACE NAIL
22. WIDER THAN 1" x 8" SHEATHING TO EACH BEARING	3 - 8d COMMON (2 1/2"x0.131")	FACE NAIL
23. BUILT-UP CORNER STUDS	16d COMMON (3 1/2"x0.162") 3"x0.131" NAILS	24" O.C. 16" O.C.
24. BUILT-UP GIRDER AND BEAMS	20d COMMON (4"x0.192")32" O.C 3"x0.131" NAIL AT 24" O.C	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	2 - 20d COMMON (4" x0.192") 3 - 3"x0.131" NAILS	FACE NAIL AT ENDS AND AT EACH SPLICE
25. 2" PLANKS	16d COMMON (3 1/2"x0.162")	AT EACH BEARING
26. COLLAR TIE TO RAFTER	3 - 10d COMMON (3"x0.148") 4 - 3"x0.131" NAILS	FACE NAIL
27. JACK RAFTER TO HIP	3 - 10d COMMON (3"x0.148") 4 - 3"x0.131" NAILS	TOE NAIL
	2 - 16d COMMON (3 1/2"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
28. ROOF RAFTERS TO 2-BY RIDGE BEAM	2 - 16d COMMON (3 1/2"x0.162") 3 - 3"x0.131" NAILS	TOE NAIL
	2 - 16d COMMON (3 1/2"x0.162") 3 - 3"x0.131" NAILS	FACE NAIL
29. JOIST TO BAND JOIST	3 - 16d COMMON (3 1/2"x0.162") 4 - 3"x0.131" NAILS	FACE NAIL
30. LEDGER STRIP	3 - 16d COMMON (3 1/2"x0.162") 4 - 3"x0.131" NAILS	FACE NAIL AT EACH JOIST
31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD[b] SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS — 6d[c,l]; 2 3/8"x0.113" NAIL[n]; 1 3/4" 16d GAGE[d]; 8d[d] or 6d[e]	
	19/32" TO 3/4" — 8d[d] or 6d[e]; 2 3/8"x0.113" NAIL[n]; 2" 16d GAGE[d]	
	7/8" TO 1" — 8d[c]	
	1 1/8" TO 1 1/4" — 10d[d] or 8d[e]	
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	3/4" AND LESS — 6d[e] 7/8" TO 1" — 8d[e] 1 1/8" TO 1 1/4" — 10d[d] OR 8d[e]	
32. PANEL SIDING (TO FRAMING)	1/2" AND LESS — 6d[f] 5/8" — 8d[f]	
33. FIBERBOARD SHEATHING[g]	1/2" — NO. 11 GA ROOFING NAIL[h] 6d COMMON NAIL (2"x0.113")	
	25/32" — NO. 11 GA ROOFING NAIL[h] 8d COMMON NAIL (2 1/2"x 0.131")	
34. INTERIOR PANELING	1/4" — 4d[j] 3/8" — 6d[k]	

FOOTNOTES:
a. COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE

FLOOR JOIST TABLE

	LIVE LOAD PSF	JOIST SPACING
☐	50	60"
☒	50 + 15	48"
☐	100	39"
☒	150	26"

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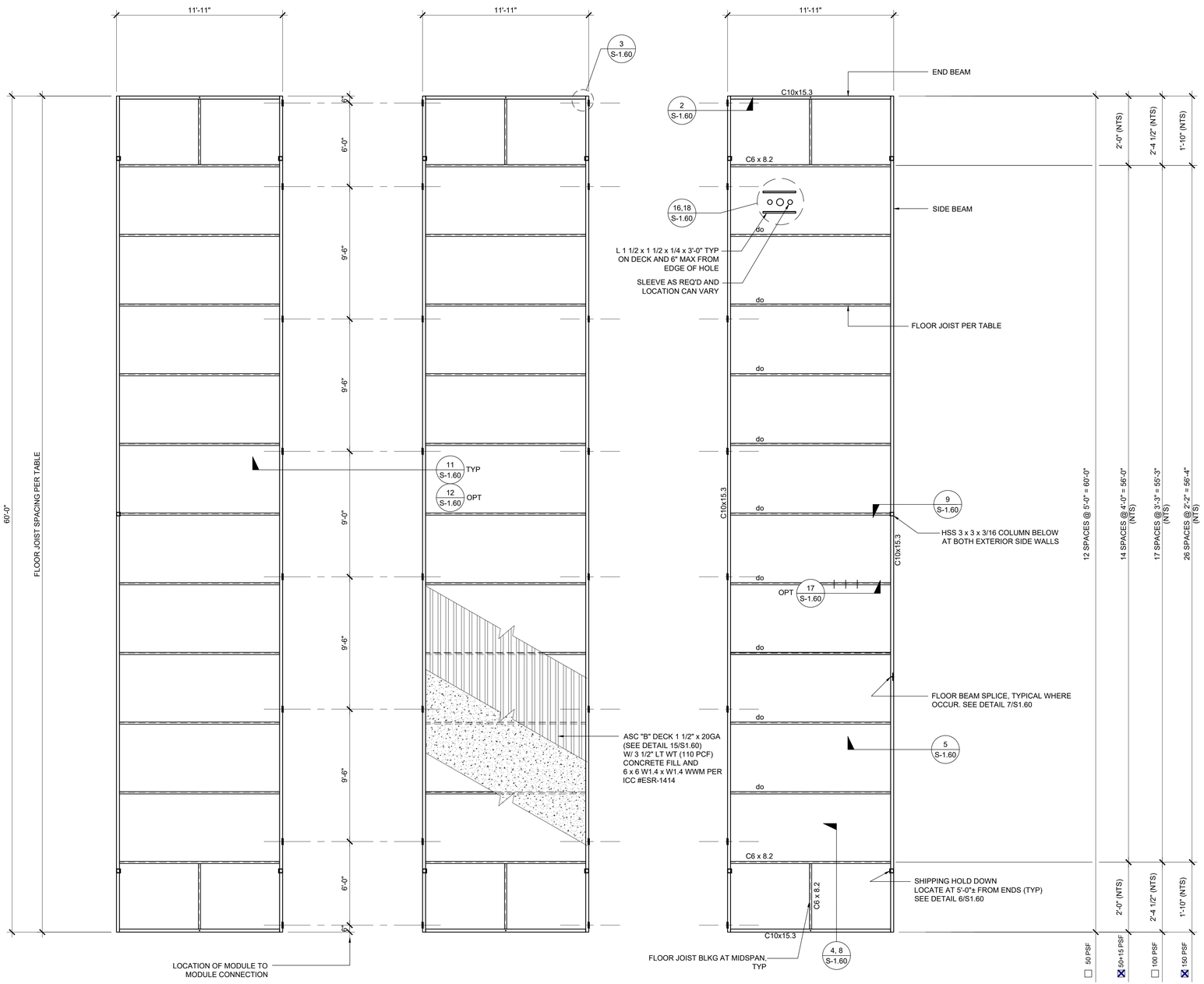
DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

REAR



LEFT HAND MODULE | INTERIOR MODULE | RIGHT HAND MODULE

FRONT

FLOOR FRAMING PLAN

SCALE: 1/4" = 1' - 0" | 1

SILVER CREEK

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

FLOOR FRAMING PLAN
CONCRETE FLOOR

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24975 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS

1	
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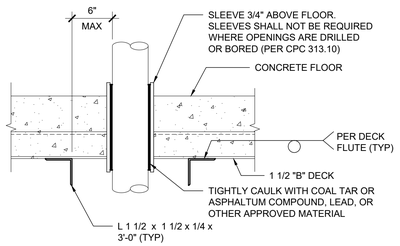
SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER

S-1.11

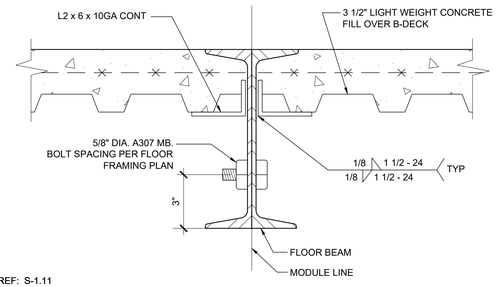
PHASE III



REF: S-1.11

FLOOR PENETRATION

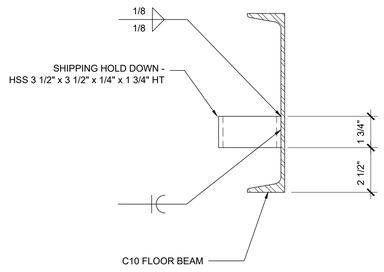
SCALE : 3" = 1'-0" | 16



REF: S-1.11

MODULE LINE - BOLTED CONNECTION

SCALE : 3" = 1'-0" | 11

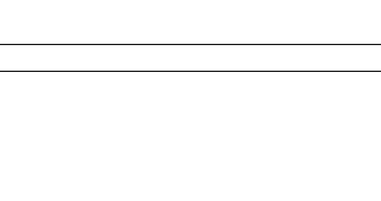


REF: S-1.11

SHIPPING HOLD DOWN DETAIL

SCALE : 3"=1'-0" | 6

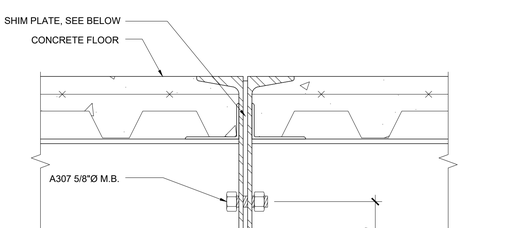
	1



REF: S-1.11

FLOOR JOIST HOLES (OPTIONAL)

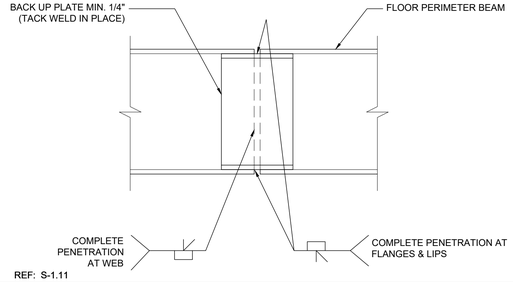
SCALE : 1/8" = 1'-0" | 17



REF: S-1.11

MODULE LINE CONNECTION (OPTION 1)

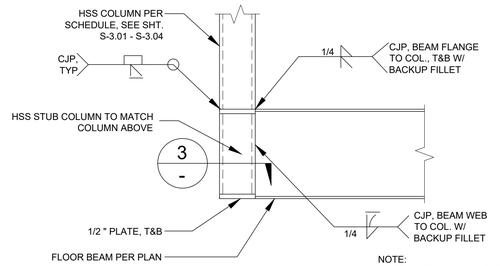
SCALE : 3" = 1'-0" | 12



REF: S-1.11

FLOOR BEAM SPLICE

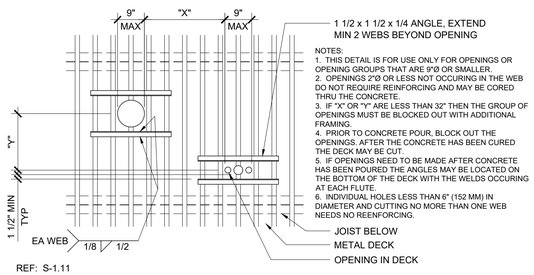
SCALE : 3" = 1'-0" | 7



REF: S-1.11

FLOOR BEAM TO COLUMN CONNECTION

SCALE : 1 1/2" = 1'-0" | 2

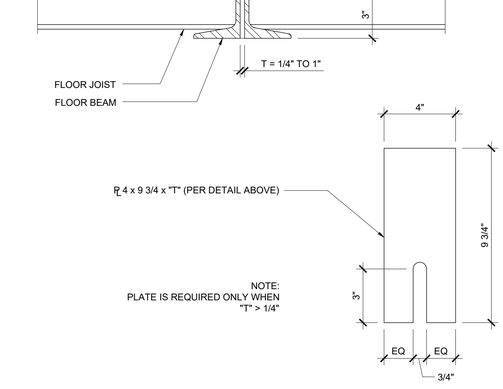


NOTES:
1. THIS DETAIL IS FOR USE ONLY FOR OPENINGS OR OPENING GROUPS THAT ARE 9"Ø OR SMALLER.
2. OPENINGS 2"Ø OR LESS NOT OCCURING IN THE WEB DO NOT REQUIRE REINFORCING AND MAY BE CORED THRU THE CONCRETE.
3. IF "X" OR "Y" ARE LESS THAN 32" THEN THE GROUP OF OPENINGS MUST BE BLOCKED OUT WITH ADDITIONAL FRAMING.
4. PRIOR TO CONCRETE POUR, BLOCK OUT THE OPENINGS. AFTER THE CONCRETE HAS BEEN CURED THE DECK MAY BE CUT.
5. IF OPENINGS NEED TO BE MADE AFTER CONCRETE HAS BEEN POURED THE ANGLES MAY BE LOCATED ON THE BOTTOM OF THE DECK WITH THE WELDS OCCURING AT EACH FLUTE.
6. INDIVIDUAL HOLES LESS THAN 6" (152 MM) IN DIAMETER AND CUTTING NO MORE THAN ONE WEB NEEDS NO REENFORCING.

REF: S-1.11

PENETRATIONS IN DECK (OPTION)

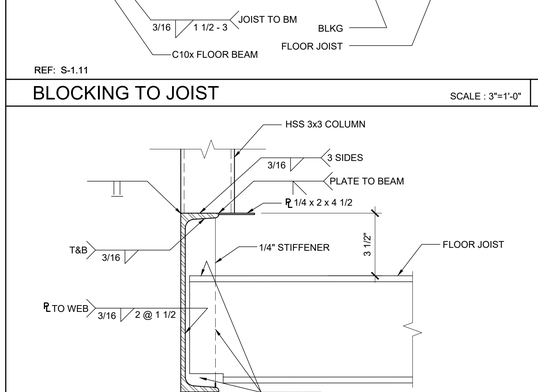
SCALE : 1/2"=1'-0" | 18



REF: S-1.11

MODULE LINE CONNECTION (OPTION 2)

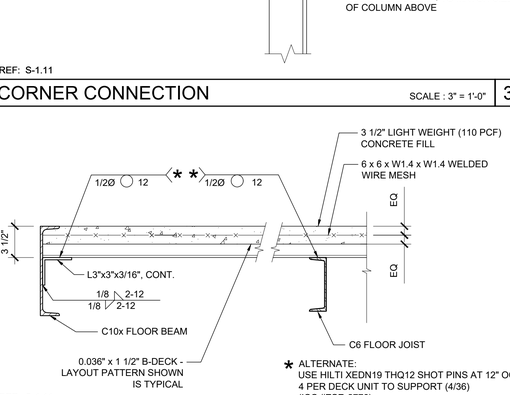
SCALE : 3"=1'-0" | 14



REF: S-1.11

BLOCKING TO JOIST

SCALE : 3"=1'-0" | 8

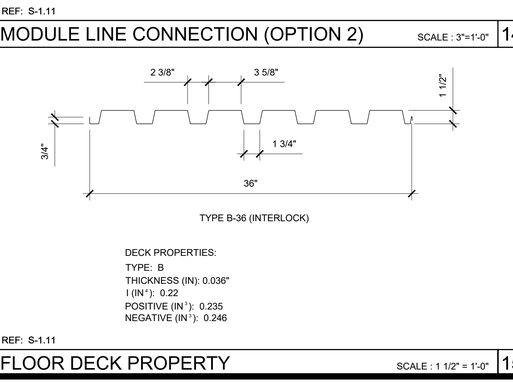


REF: S-1.11

CORNER CONNECTION

SCALE : 3" = 1'-0" | 3

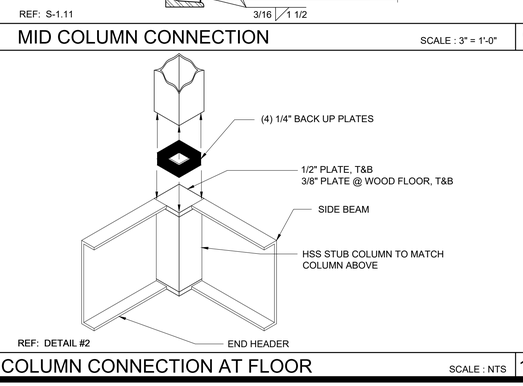
	19



REF: S-1.11

MODULE LINE CONNECTION (OPTION 2)

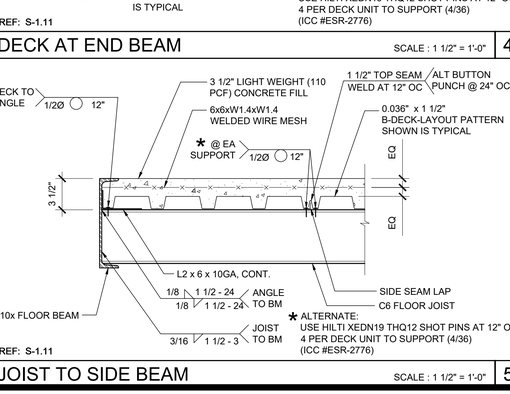
SCALE : 3"=1'-0" | 14



REF: S-1.11

MID COLUMN CONNECTION

SCALE : 3" = 1'-0" | 9



REF: S-1.11

DECK AT END BEAM

SCALE : 1 1/2" = 1'-0" | 4

	20

TYPE B-36 (INTERLOCK)

DECK PROPERTIES:
TYPE: B
THICKNESS (IN): 0.036"
I (IN⁴): 0.22
POSITIVE (IN³): 0.235
NEGATIVE (IN³): 0.246

REF: S-1.11

FLOOR DECK PROPERTY

SCALE : 1 1/2" = 1'-0" | 15

REF: DETAIL #2

COLUMN CONNECTION AT FLOOR

SCALE : NTS | 10

REF: S-1.11

JOIST TO SIDE BEAM

SCALE : 1 1/2" = 1'-0" | 5

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SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CRE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

FLOOR FRAMING DETAIL
CONCRETE FLOOR

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24075 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC_RM_ FLS_DS_SSR_KER
DATE 10/05/2018

REVISIONS

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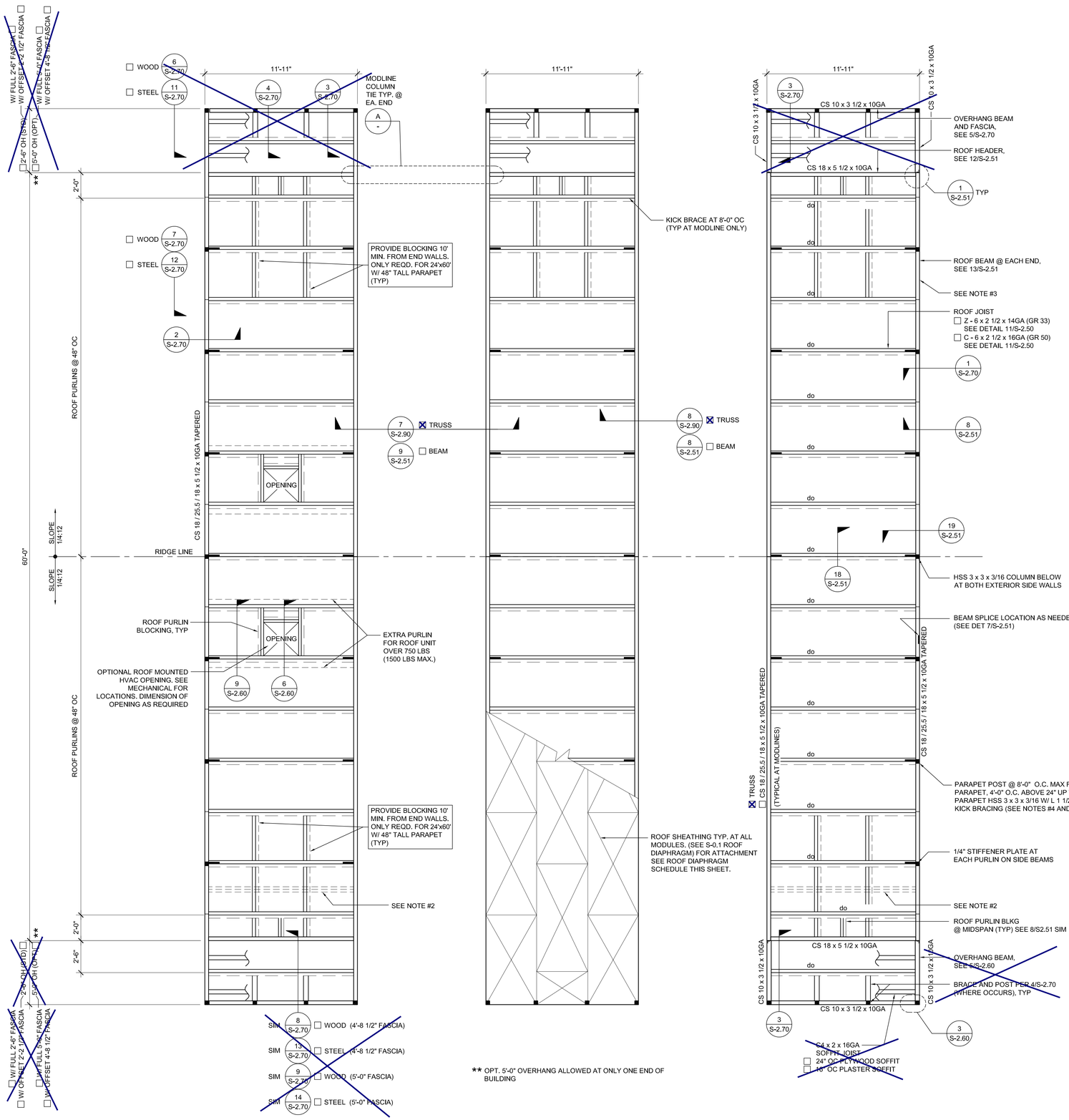
SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER

S-1.60

PHASE III

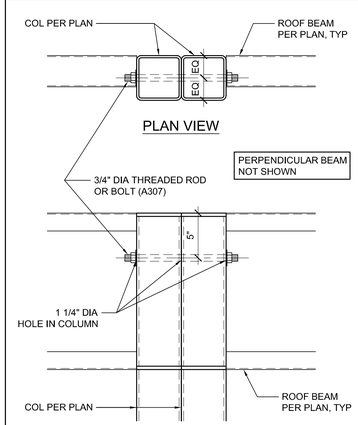


NOTES

1. FOR WALL MOUNTED HVAC UNIT, PROVIDE OPENING THROUGH REAR ROOF HEADER WHERE IT OCCURS. SEE FLOOR PLAN FOR HVAC LOCATION. SEE 5,15 / S-2.50 OR 5,15/S-2.51 FOR DETAILS
2. OPTIONAL PURLIN FOR FIRE SPRINKLER LINE AS NEEDED. LOCATION OF FIRE SPRINKLER PURLIN TO BE DETERMINED BY SITE STIFFENER PLATE OR ANGLE BRACE REQUIRED AT THIS LOCATION. FOR FIRE SPRINKLER LINE SIDE BEAM PENETRATION, SEE 14 / S-2.50 OR 14 / S-2.51 DETAILS.
3. FOR OPTIONAL SIDE BEAM OPENING SEE 10, 15/S-2.50 OR 10, 15/S-2.51 FOR DETAILS
4. PARAPET HSS POST AND KICK BRACING REQUIRED WHERE PARAPET HEIGHT IS OVER 9"
5. PARAPET HEIGHT TO BE DETERMINED BY ARCHITECT BEFORE FABRICATION. (4" MIN. TO 4'-0" MAX.) (SEE ARCHITECTURAL ELEVATION)

ROOF DIAPHRAGM SCHEDULE

	FASTENER REQUIREMENTS
10' BLOCKED DIAPHRAGM 48" MAX. PARAPET HEIGHT (NOTE: OMIT BLOCKING @ BUILDINGS LARGER THAN 24'x60')	TEK SCREWS @ 4" OC B.N., 6" OC E.N., 6" OC F.N. @ BLOCKED DIAPHRAGM & 6" OC E.N., 6" OC F.N. @ NON-BLOCKED ROOF AREA



SECTION VIEW

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SILVER CRE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF FRAMING PLAN
PARAPET

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2475 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT DSA-SS ONLY
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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SILVER CREEK INDUSTRIES
24' x 60' PC

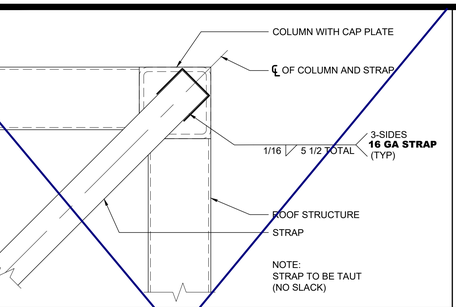
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER
S-2.13

PHASE III

ROOF FRAMING PLAN — SCALE: 1/4" = 1'-0" | 1

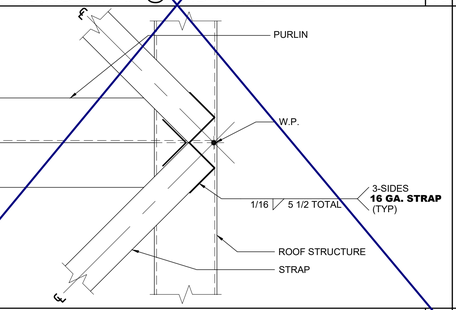
MODLINE TIE — SCALE : 1 1/2" = 1'-0" | A



REF: S2.12

ROOF BRACING STRAP @ END WALL

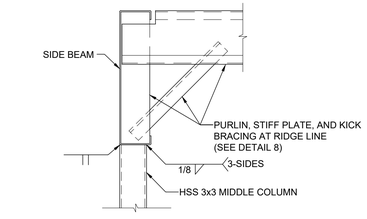
SCALE : 3"=1'-0" | 16



REF: S2.12

ROOF BRACING STRAP @ SIDE WALL

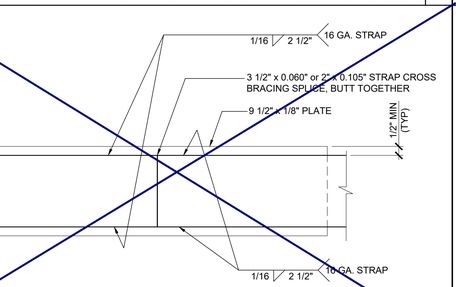
SCALE : 3"=1'-0" | 17



REF: S2.11, S2.12, S2.13

MIDDLE COLUMN CONNECTION AT ROOF

SCALE : 1 1/2" = 1'-0" | 19



REF: S2.12

STRAP SPLICE DETAIL

SCALE : 6" = 1'-0" | 20

REF: S2.12

ROOF BRACING STRAP @ END WALL

SCALE : 3"=1'-0" | 16

REF: S2.12

ROOF BRACING STRAP @ SIDE WALL

SCALE : 3"=1'-0" | 17

REF: S2.11, S2.12, S2.13

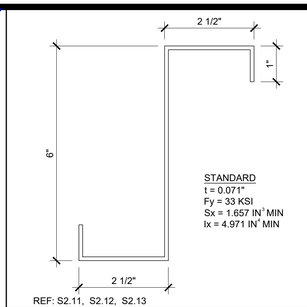
MIDDLE COLUMN CONNECTION AT ROOF

SCALE : 1 1/2" = 1'-0" | 19

REF: S2.12

STRAP SPLICE DETAIL

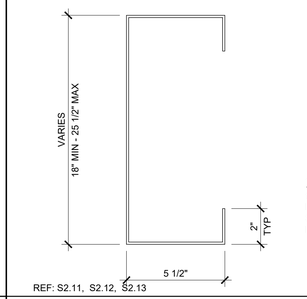
SCALE : 6" = 1'-0" | 20



REF: S2.11, S2.12, S2.13

ROOF PURLIN

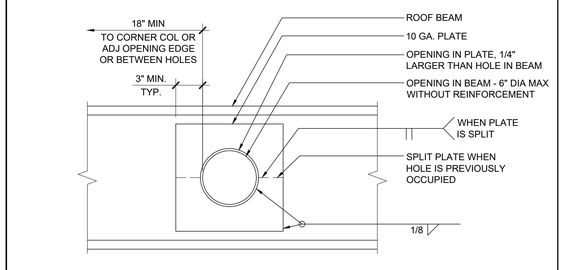
SCALE : 6"=1'-0" | 11



REF: S2.11, S2.12, S2.13

SIDE BEAM

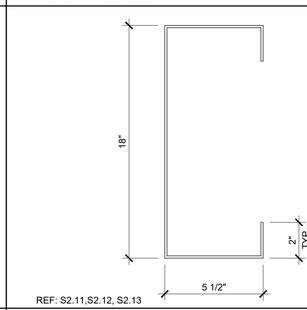
SCALE : NTS | 13



REF: S2.11, S2.12, S2.13

SIDEWALL BEAM PENETRATION

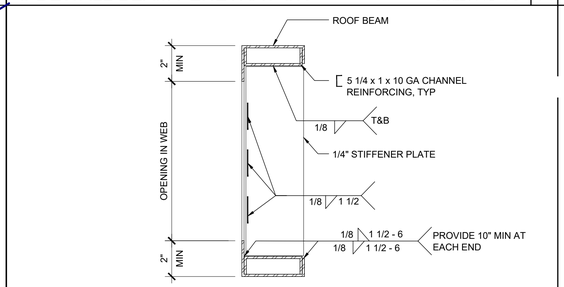
SCALE : 1 1/2"=1'-0" | 14



REF: S2.11,S2.12, S2.13

ROOF HEADER

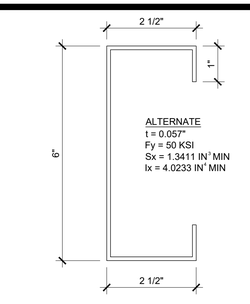
SCALE : NTS | 12



REF: S2.11, S2.12, S2.13, S2.51

WEB OPENING AT ROOF HEADER

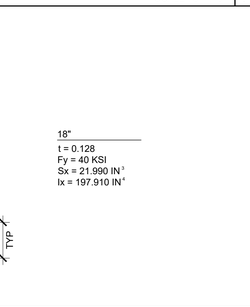
SCALE : 3" = 1'-0" | 15



REF: S2.12

TYPICAL PURLIN CONNECTION DETAIL

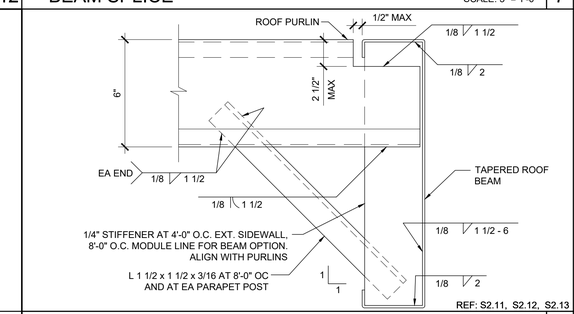
SCALE : 3" = 1'-0" | 6



REF: S2.11, S2.12, S2.13

BEAM SPLICE

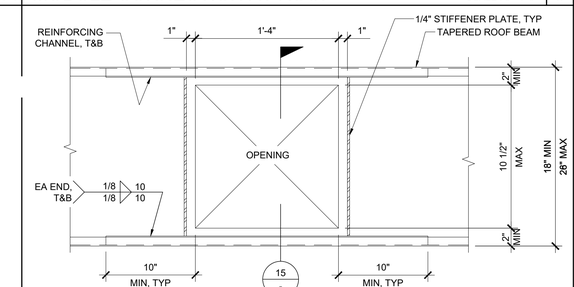
SCALE: 3" = 1'-0" | 7



REF: S2.11, S2.12, S2.13

PURLIN TO ROOF BEAM @ STIFFENER

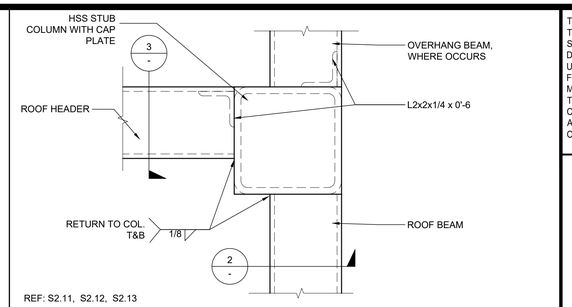
SCALE : 3"=1'-0" | 8



REF: S2.11, S2.12, S2.13

OPENING AT ROOF BEAM (OPTION)

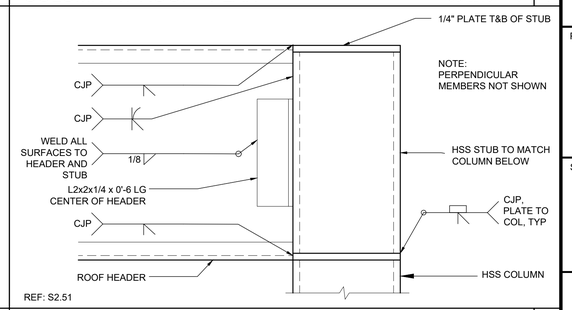
SCALE : 1 1/2" = 1'-0" | 10



REF: S2.11, S2.12, S2.13

COLUMN AT ROOF - PLAN

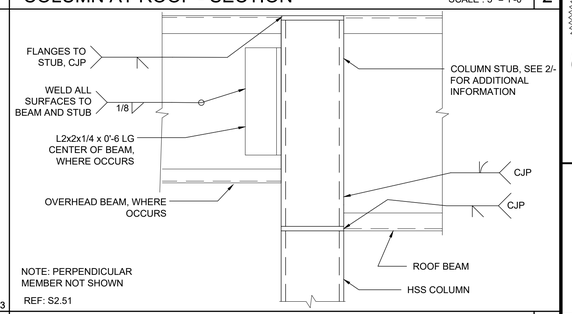
SCALE : 3" = 1'-0" | 1



REF: S2.51

COLUMN AT ROOF - SECTION

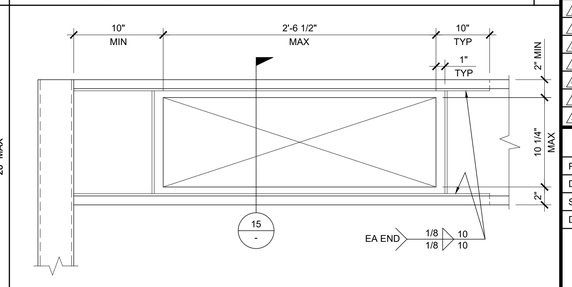
SCALE : 3" = 1'-0" | 2



REF: S2.51

COLUMN AT ROOF OVERHANG

SCALE : 3" = 1'-0" | 3



REF: S2.11, S2.12, S2.13

OPENING AT HEADER

SCALE : 1 1/2"=1'-0" | 5

NOT USED

4

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SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CRE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF FRAMING DETAILS
DUAL SLOPE

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24075
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CCR, 2010 CBC
A SEPARATE PROJECT APPLICATION
IS FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
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DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS

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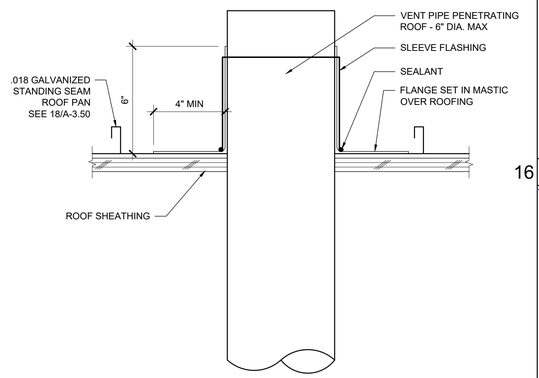
SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

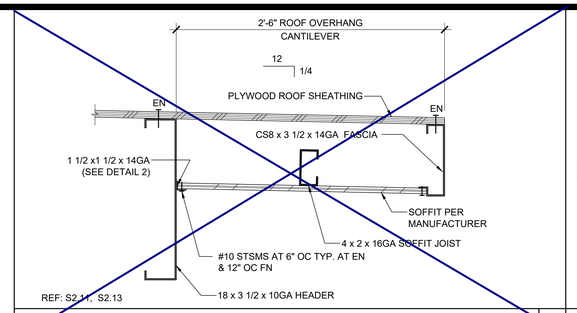
P.C. SHEET NUMBER

S-2.51

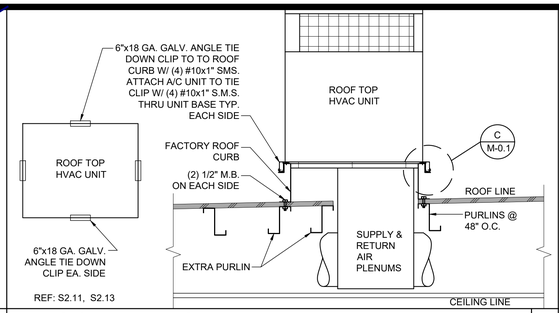
PHASE III



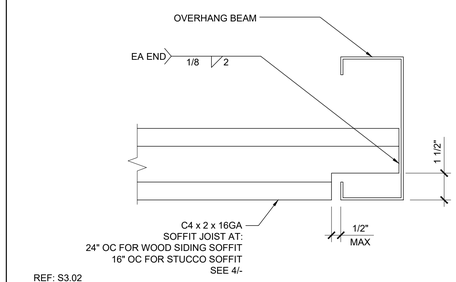
PIPE PENETRATION THROUGH ROOF — SCALE : 3"=1'-0" — 17



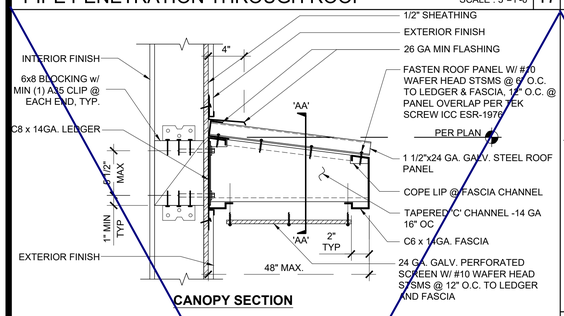
REAR OVERHANG SECTION — SCALE : 1 1/2" = 1'-0" — 11



HVAC CURB ATTACHMENT — SCALE : 3/4" = 1'-0" — 6

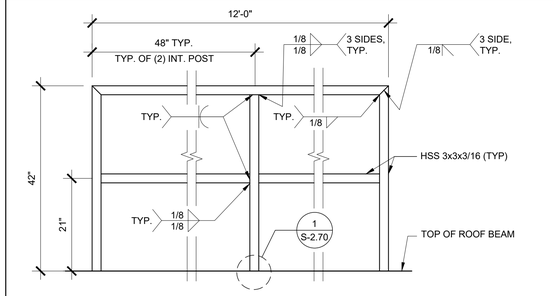


SOFFIT JOIST TO OVERHANG BEAM — SCALE : 3"=1'-0" — 1

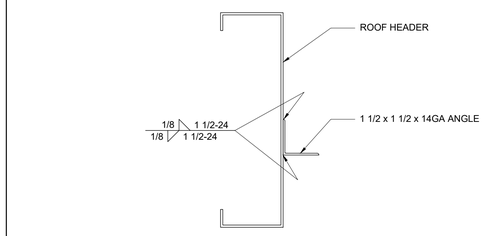


OPTIONAL CANOPY — SCALE : 1 1/2" = 1'-0" — 20

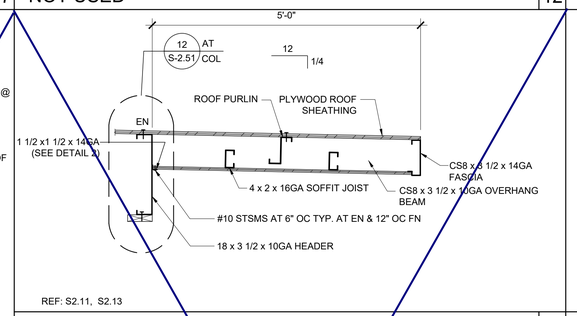
NOT USED — 12



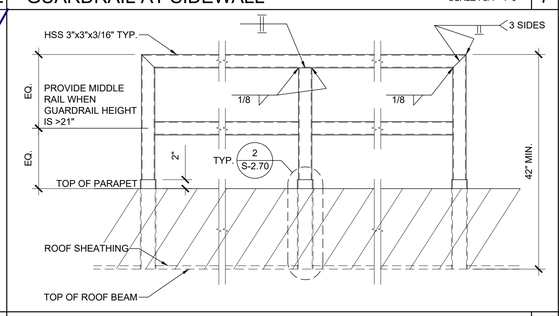
GUARDRAIL AT SIDEWALL — SCALE : 3/4"=1'-0" — 7



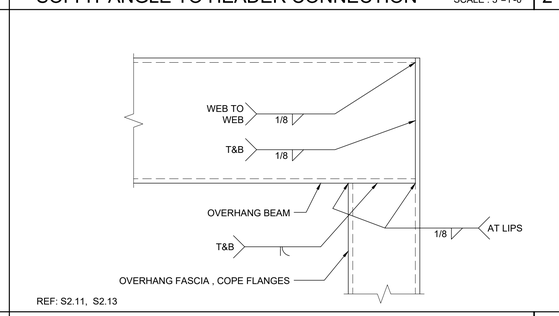
SOFFIT ANGLE TO HEADER CONNECTION — SCALE : 3"=1'-0" — 2



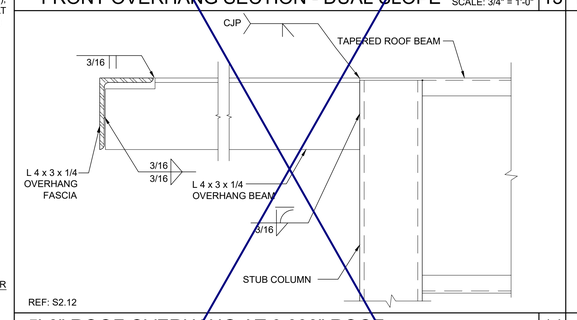
FRONT OVERHANG SECTION - DUAL SLOPE — SCALE: 3/4" = 1'-0" — 13



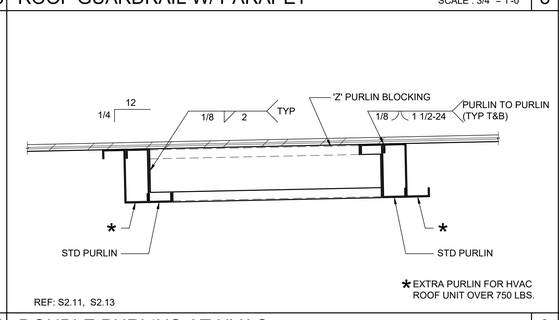
ROOF GUARDRAIL W/ PARAPET — SCALE : 3/4" = 1'-0" — 8



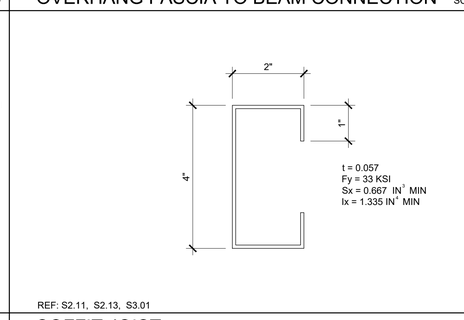
OVERHANG FASCIA TO BEAM CONNECTION — SCALE : 6"=1'-0" — 3



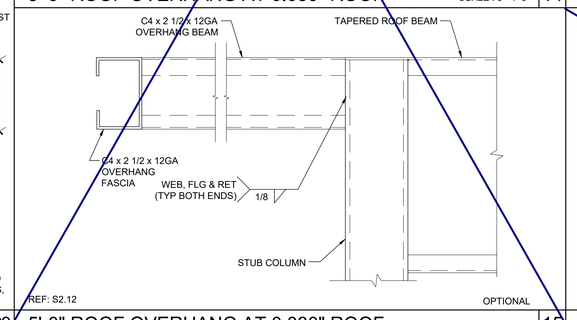
5'-0" ROOF OVERHANG AT 0.030" ROOF — SCALE : 3"=1'-0" — 14



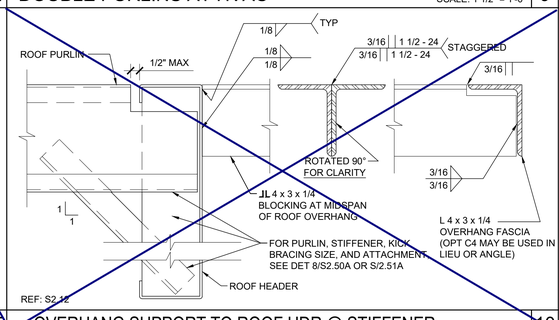
DOUBLE PURLINS AT HVAC — SCALE: 1 1/2" = 1'-0" — 9



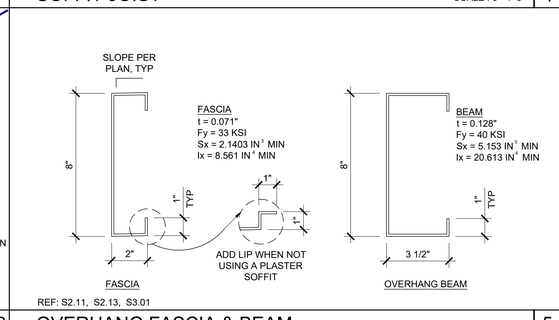
SOFFIT JOIST — SCALE : 6"=1'-0" — 4



5'-0" ROOF OVERHANG AT 0.030" ROOF — SCALE : 3" = 1'-0" — 15



OVERHANG SUPPORT TO ROOF HDR @ STIFFENER — SCALE : 3"=1'-0" — 10



OVERHANG FASCIA & BEAM — SCALE : 3"=1'-0" — 5

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SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF FRAMING DETAILS

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24075 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC_RM_ FLS_DS_SSR_KER
DATE 10/05/2018

REVISIONS

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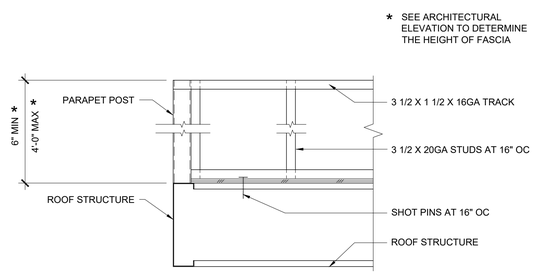
SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

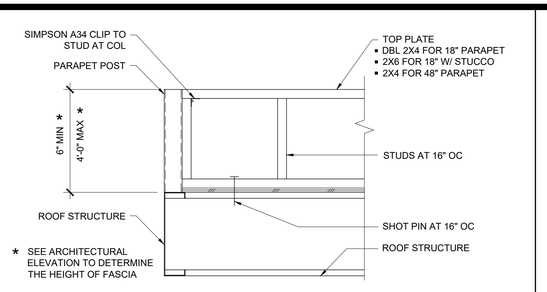
P.C. SHEET NUMBER

S-2.60

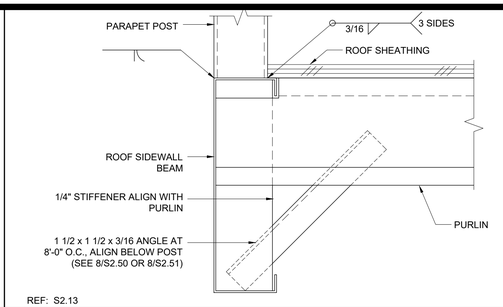
PHASE III



16 PARAPET STEEL METAL FRAMING AT CORNER SCALE : 1" = 1'-0"

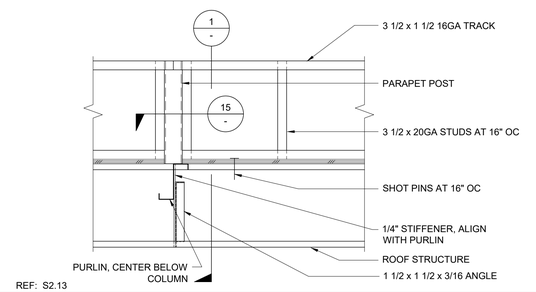


11 PARAPET WOOD FRAMING AT CORNER SCALE : 1" = 1'-0"

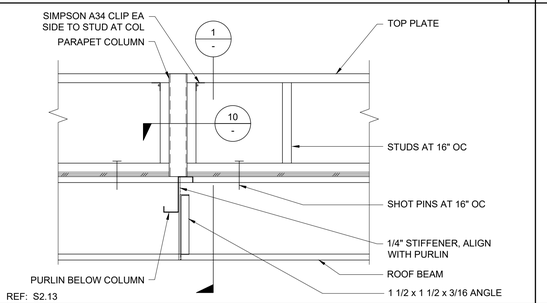


6 TUBE STEEL TO BEAM AT SIDEWALL SCALE : 3"=1'-0"

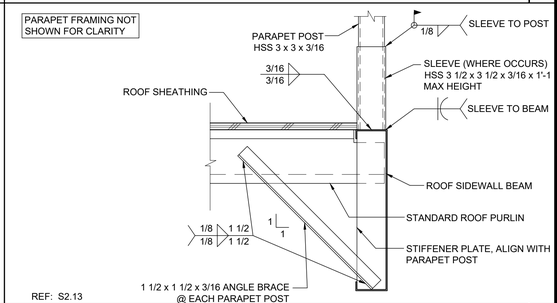
1



17 PARAPET STEEL METAL FRAMING AT SIDEWALL SCALE : 1"=1'-0"

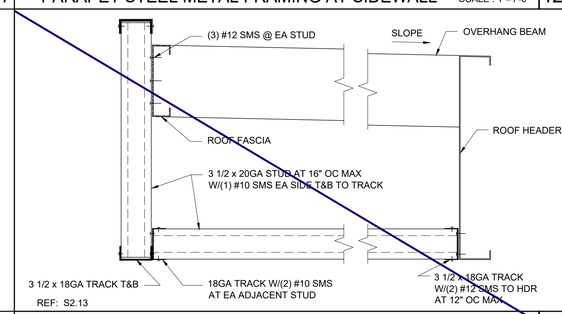


12 PARAPET WOOD FRAMING AT SIDEWALL SCALE : 1"=1'-0"

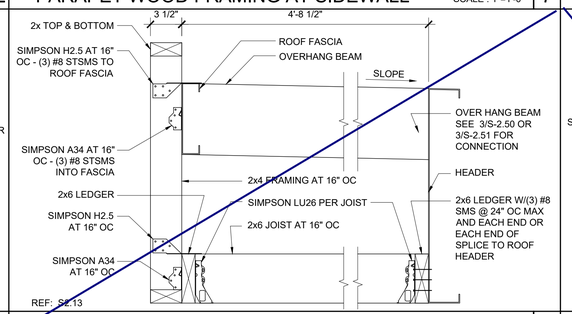


7 PARAPET POST WITH SLEEVE OPTION SCALE : 1 1/2"=1'-0"

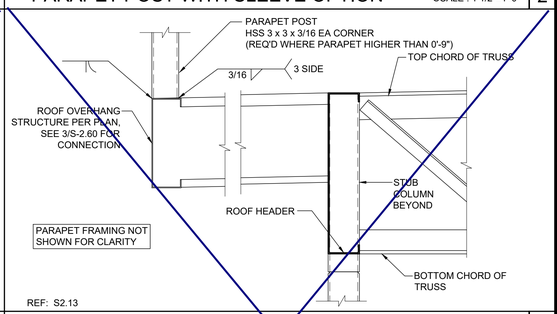
2



18 FRONT PARAPET STEEL METAL CONNECTION (OFFSET FASCIA) SCALE : 1 1/2"=1'-0"

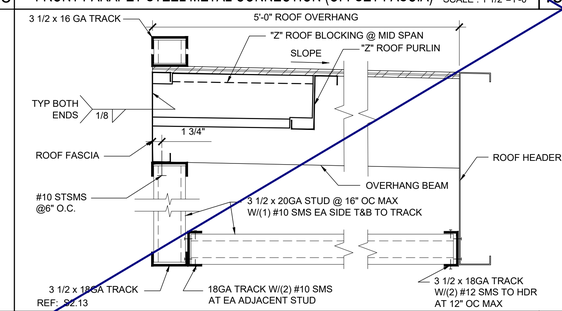


13 FRONT PARAPET WOOD CONN. (OFFSET FASCIA) SCALE : 1 1/2"=1'-0"

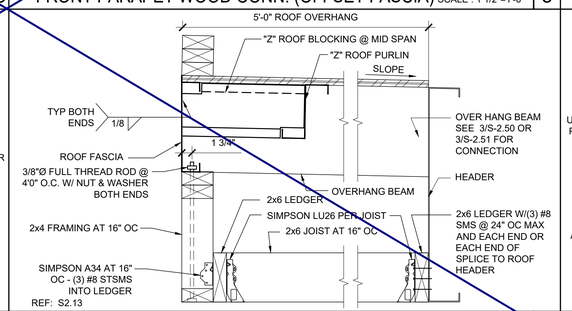


8 PARAPET POST CONNECTION AT MODLINE SCALE : 1 1/2"=1'-0"

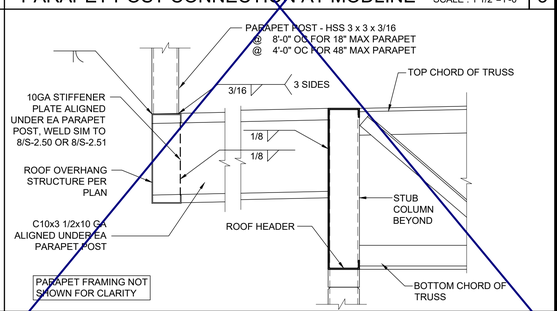
3



19 FRONT PARAPET SHEET METAL CONNECTION SCALE : 1 1/2"=1'-0"



14 FRONT PARAPET WOOD CONNECTION SCALE : 1 1/2"=1'-0"



9 PARAPET POST CONNECTION AT INTERIOR SCALE : 1 1/2"=1'-0"

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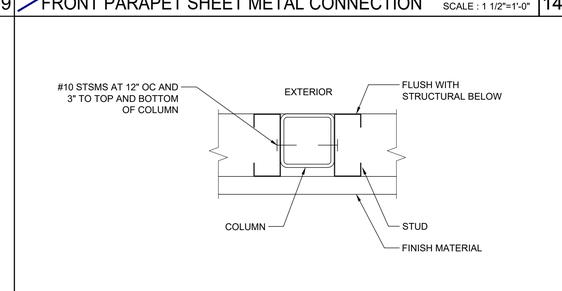
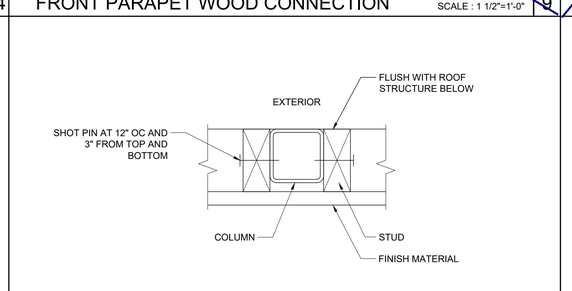
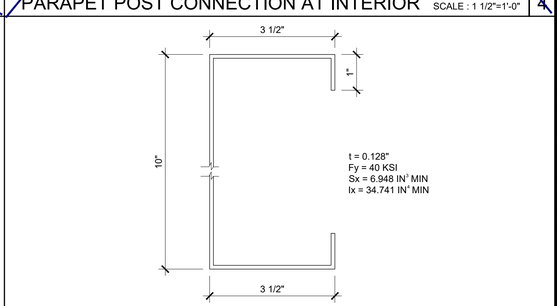


20 PARAPET SHEET METAL FRAMING TO TUBE STEEL SCALE : 3"=1'-0"



15 PARAPET WOOD FRAMING TO TUBE STEEL SCALE : 3"=1'-0"



10 OVERHANG FASCIA/BEAM @ PARAPET SCALE : 6"=1'-0"

5

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SS ☑ FLS ☑ ACS ☑
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SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF FRAMING DETAILS
PARAPET

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24075 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
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AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS
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SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 8-10-18

P.C. SHEET NUMBER
S-2.70

PHASE III

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SILVER CRE

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Building for the Next Generation

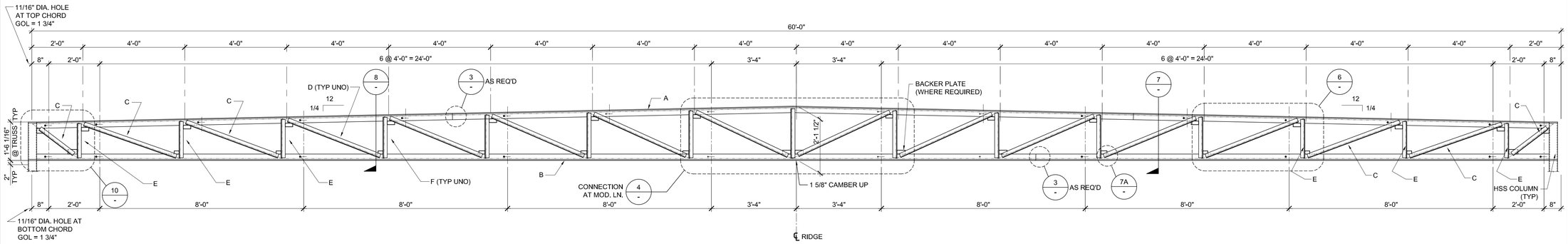
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

ROOF FRAMING DETAILS
TRUSS

REGISTERED PROFESSIONAL ENGINEER JOHN W STARUN 2475 STRUCTURAL STATE OF CALIFORNIA



NOTES:

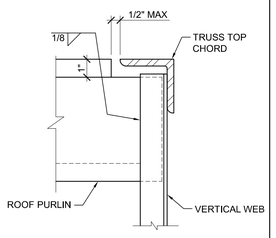
1. ALL STEEL GRADES TO BE A-36 WITH 36 K.S.I. MIN. YIELD, EXCEPT GAUGE MATERIAL SHALL BE A-1011/GRADE 40
2. REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70
3. VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURERS SPECIFICATIONS
4. BOLTS AND NUTS GRADES TO BE A307

REF: ROOF FRAMING PLAN

TRUSS MARK:			Y=
A	TOP CHORD	5" x 3" x 3/8" (LLV)	1 1/4
B	BOTTOM CHORD	5" x 3" x 5/16" (LLV)	1 1/4
C	END DIAGONALS (3 EACH END)	2 1/2" x 2 1/2" x 10 GA.	5/8
D	TYPICAL DIAGONALS	2" x 2" x 10 GA.	7/16
E	END VERTICAL (3 EACH END)	1 1/2" x 1 1/2" x 10 GA.	7/16
F	TYPICAL VERTICALS	1 1/2" x 1 1/2" x 10 GA.	7/16

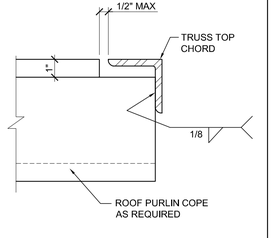
NOTE; "Y" MAY BE 1/4" MAX. OUT OF ALIGNMENT

DUAL SLOPE TRUSS — SCALE: 1/2" = 1'-0" — 1

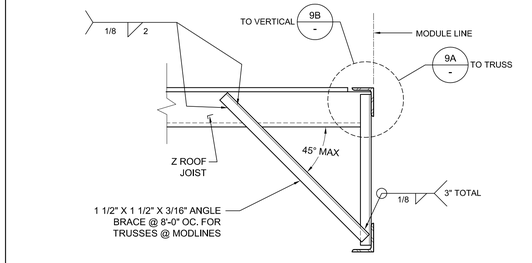


SCALE: 3" = 1'-0"

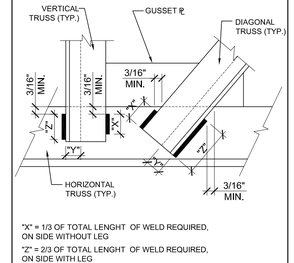
PURLIN TO VERT. ANGLE CONN. — 9B



PURLIN TO TRUSS CONN. SCALE: 3"=1'-0" — 9A

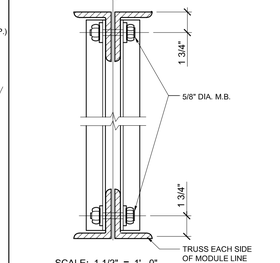


BRACE @ TRUSS & MATING LINE — SCALE: 1 1/2" = 1'-0" — 8



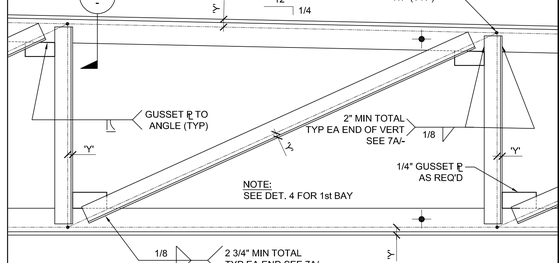
SCALE: N.T.S.

WELD REQUIREMENTS — 7A



SCALE: 1 1/2" = 1'-0"

CONNECTION @ MODULE LINE — 7



TYP. VERTICAL & DIAGONAL (U.N.O.) — SCALE: 1 1/2" = 1'-0" — 6

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT ONLY - NOT FOR CONSTRUCTION A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

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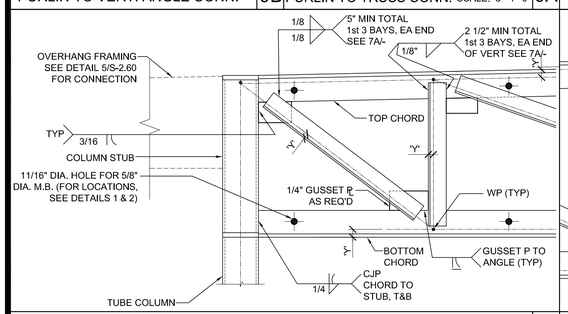
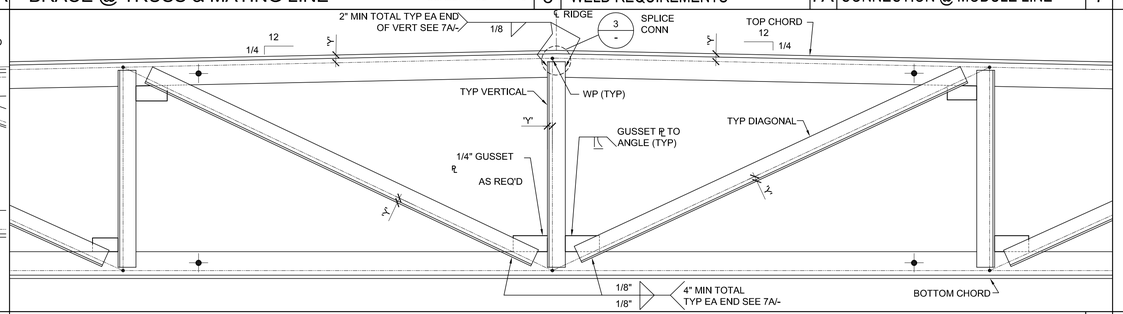
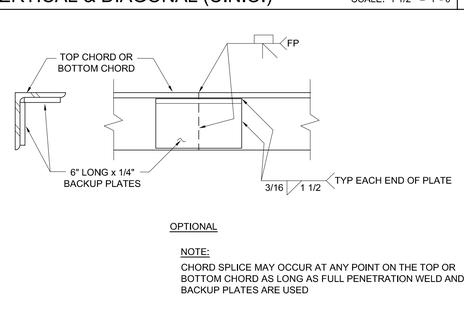


TRUSS TO COLUMN / OH FRAME CONN. SCALE: 1 1/2" = 1'-0" — 10



VERT. & DIAG. AT MID-POINT — SCALE: 1 1/2" = 1'-0" — 4



OPTIONAL

NOTE:
CHORD SPLICE MAY OCCUR AT ANY POINT ON THE TOP OR BOTTOM CHORD AS LONG AS FULL PENETRATION WELD AND BACKUP PLATES ARE USED

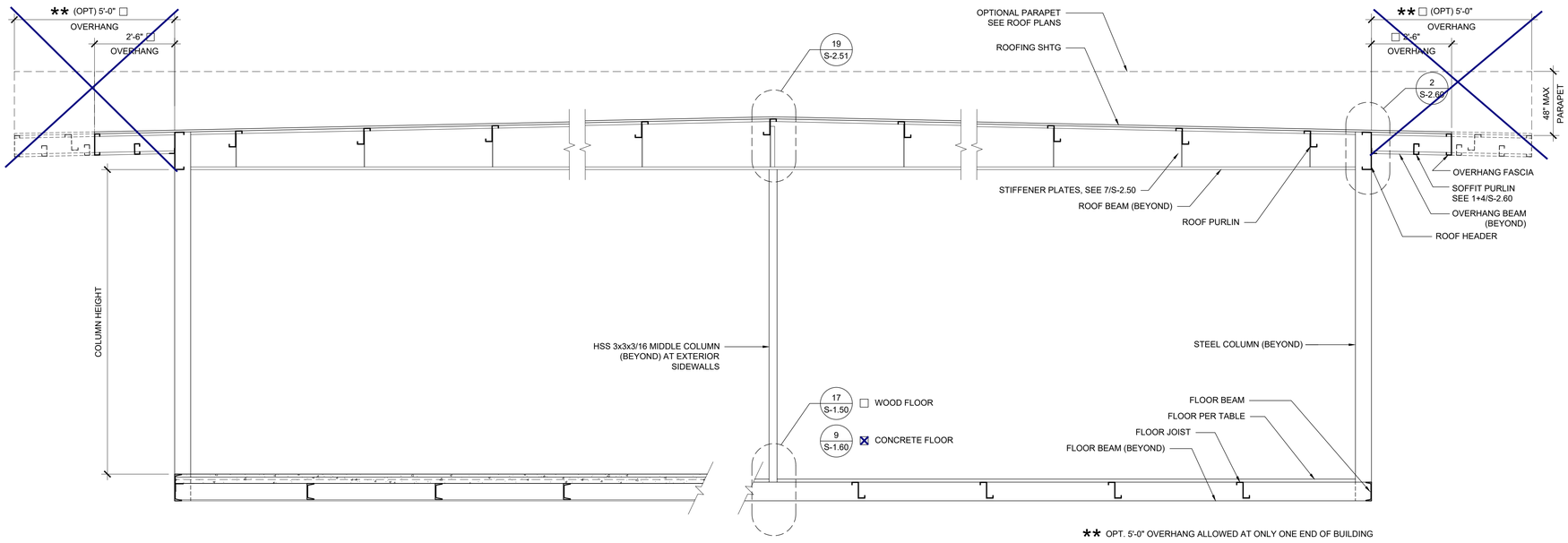
TRUSS CHORD SPLICE — SCALE: 3" = 1'-0" — 3

SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

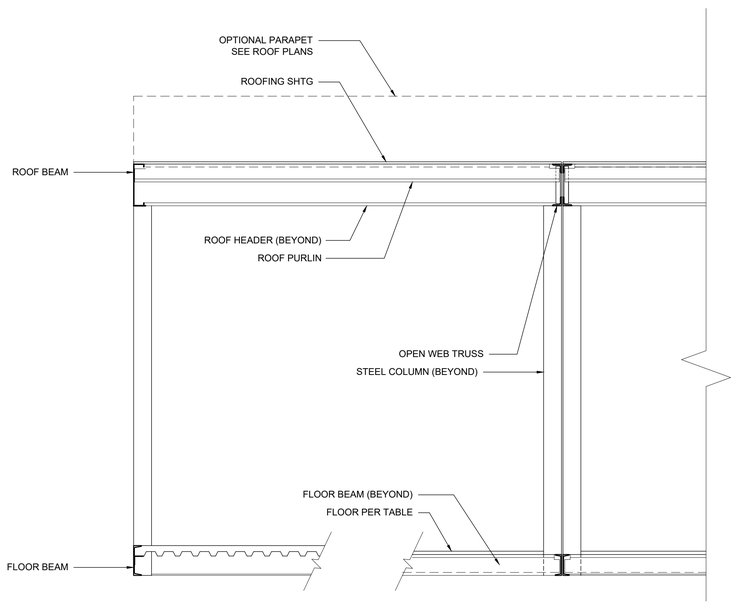
P.C. SHEET NUMBER
S-2.90

PHASE III



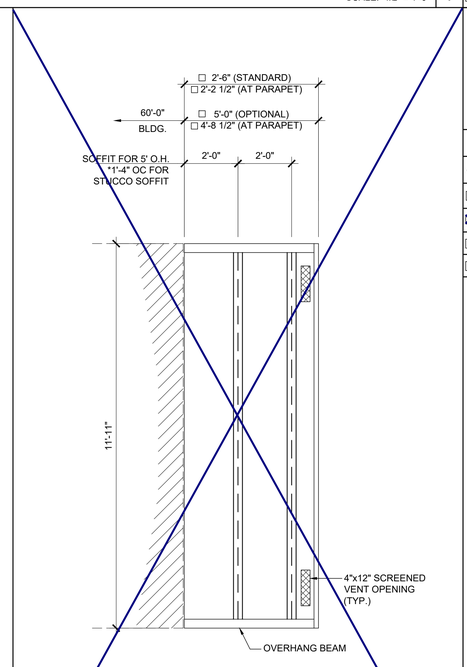
BUILDING SECTION

SCALE: 1/2" = 1'-0" | 1



BUILDING SECTION

SCALE: 1/2" = 1'-0" | 3



ENCL. SOFFIT PLAN-OPT.

SCALE: 3/8" = 1'-0" | 2

NOTES

1. ALL INFORMATION SUCH AS DETAILS, SECTIONS, CONNECTIONS, AND MATERIAL ATTACHMENT SHALL BE REFERENCED FROM OTHER SHEETS WITHIN THIS SET WHERE IT APPLIES.

FLOOR CONSTRUCTION

- ☐ WOOD FLOOR
- ☒ CONCRETE FLOOR

FLOOR BEAM SCHEDULE

COL HT	NO PARAPET	18" MAX. PARAPET	48" MAX. PARAPET
☐ 9'-0"	C8 x 11.5	C8 x 11.5	C10 x 15.3
☒ 9'-6"	~~C8 x 11.5~~	~~C10 x 15.3~~	C10 x 15.3
☐ 10'-0"	C8 x 11.5	C10 x 15.3	C10 x 15.3
☐ 10'-6"	C8 x 11.5	C10 x 15.3	C10 x 15.3

NOTE:
CONCRETE FLOOR REQUIRES C10x15.3
FLOOR BEAMS ALL SCENARIOS

COLUMN SCHEDULE

COL HT	NO PARAPET	18" MAX. PARAPET	48" MAX. PARAPET
☐ 9'-0"	6x6x1/4	6x6x1/4	6x6x3/8
☒ 9'-6"	~~6x6x1/4~~	~~6x6x1/4~~	6x6x1/2
☐ 10'-0"	6x6x1/4	6x6x1/4	6x6x1/2
☐ 10'-6"	6x6x1/4	6x6x1/4	6x6x1/2

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

BUILDING SECTIONS
DUAL SLOPE

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CCR, 2010 CBC
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AC_RM_ FLS_DS_SSR_KER
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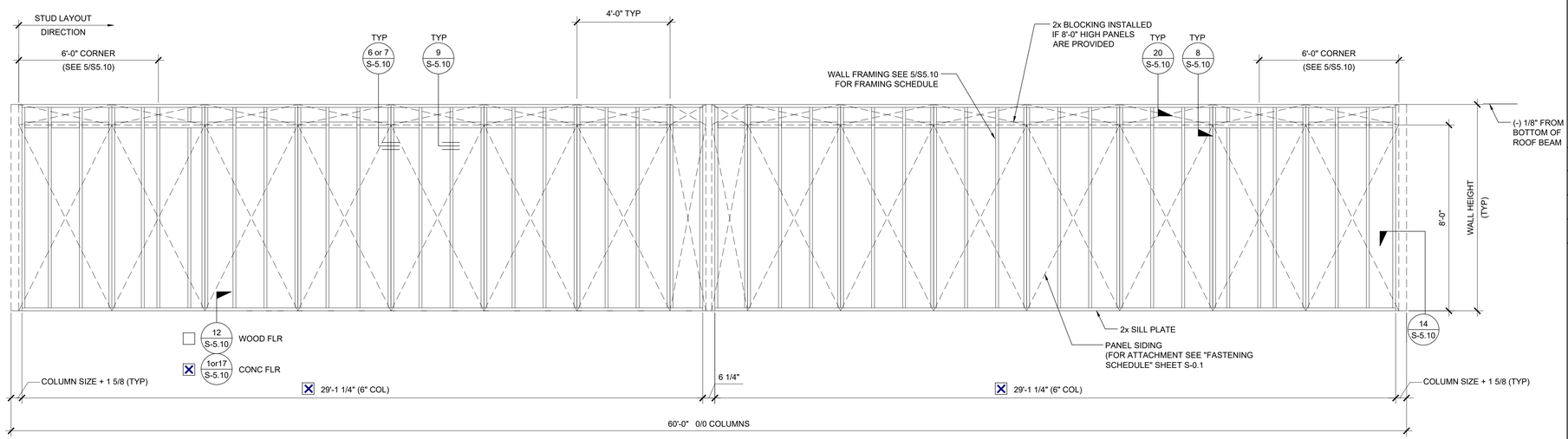
SILVER CREEK INDUSTRIES
24' x 60' PC

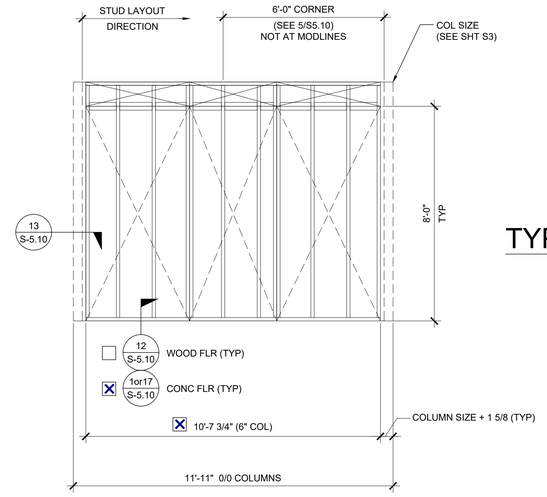
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 8-10-18

P.C. SHEET NUMBER
S-3.02

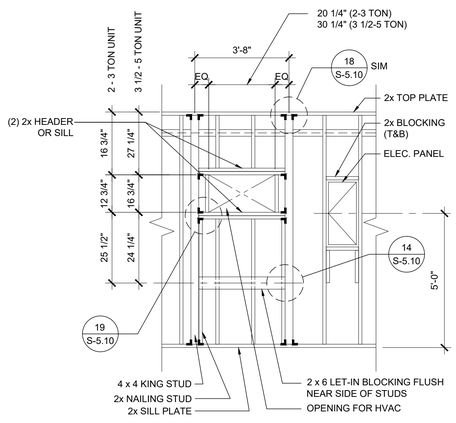
PHASE III



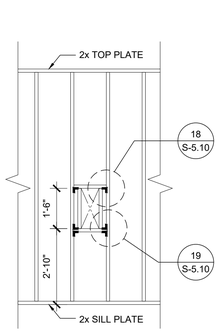
TYPICAL SIDE WALL



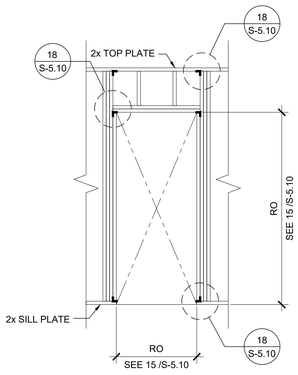
TYPICAL END WALL



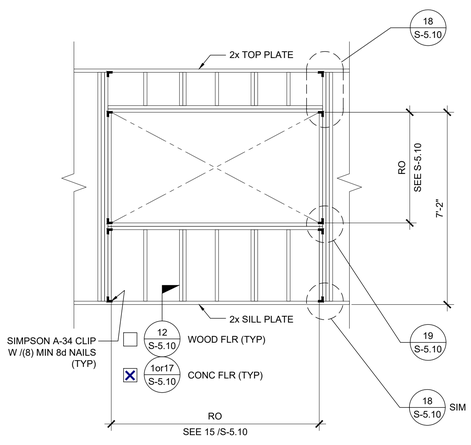
TYPICAL HVAC



FIRE EXTINGUISHER CABINET BLOCKOUT



TYPICAL DOOR



TYPICAL WINDOW

NOTES

WALL HEIGHT SCHEDULE

COLUMN HEIGHT	☐ 9'-0"	☒ 9'-6"	☐ 10'-0"	☐ 10'-6"
☒ CONCRETE FLOOR	8'-11 7/8"	9'-5 7/8"	9'-11 7/8"	10'-5 7/8"
☐ WOOD FLOOR	8'-10 3/4"	9'-4 3/4"	9'-10 3/4"	10'-4 3/4"

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SILVER CREE

SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

FRAMING ELEVATIONS WOOD STUDS

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2010 CBC
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SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
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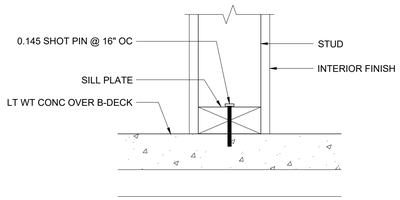
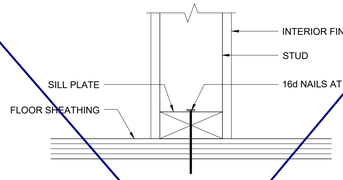
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER
S-5.00

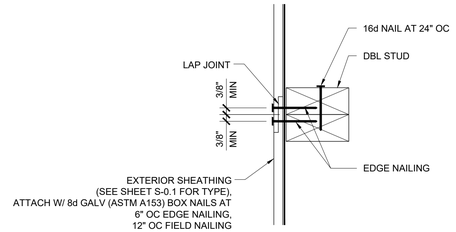
PHASE III



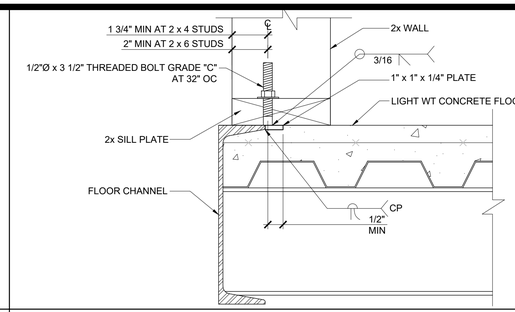
PARTITION CONNECTION AT CONC FLOOR SCALE : 3"=1'-0" 16



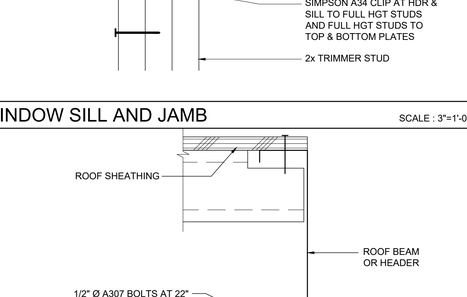
PARTITION CONNECTION AT WOOD FLOOR SCALE : 3"=1'-0" 11



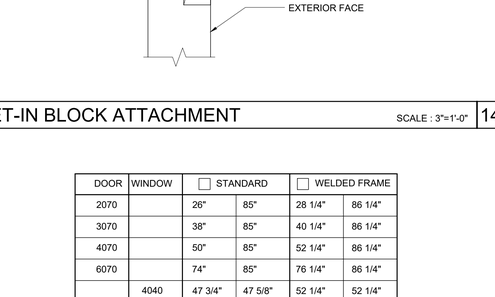
VERTICAL SHEATHING LAP JOINT SCALE : 3"=1'-0" 6



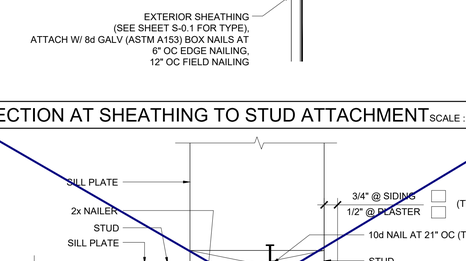
OPTIONAL BOLTED WALL TO FLOOR SCALE : NTS 1



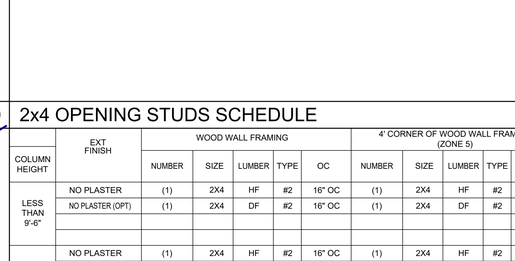
WALL SILL AT CONCRETE FLOOR SCALE : 3"=1'-0" 17



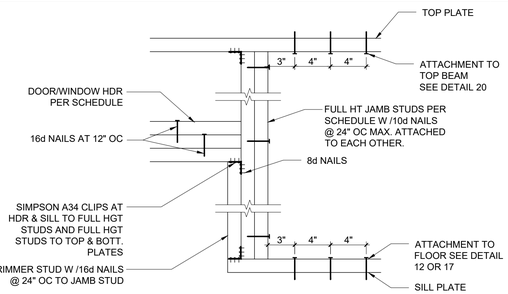
WALL SILL AT WOOD FLOOR SCALE : 3"=1'-0" 12



VERTICAL SHEATHING BUTT JOINT SCALE : 3"=1'-0" 7



COLUMN AT ENDWALL (2x6) SCALE : 3"=1'-0" 2



DOOR/WINDOW HEADER AND JAMB SCALE : 1 1/2"=1'-0" 18

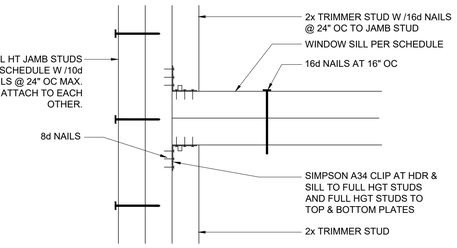
HORIZONTAL SHEATHING JOINT SCALE : 3"=1'-0" 8

COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE
LESS THAN 9'-6"	3070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2
	4070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2
	6040	NO PLASTER	(2)	2X4	HF	#2	(2)	2X4	HF	#2	(2)	2X4	HF	#2
		NO PLASTER (OPT)	(2)	2X4	DF	#2	(2)	2X4	DF	#2	(2)	2X4	DF	#2
	8040	NO PLASTER	(2)	2X4	HF	#2	(2)	2X4	HF	#2	(3)	2X4	HF	#2
		NO PLASTER (OPT)	(2)	2X4	DF	#2	(2)	2X4	DF	#2	(2)	2X4	DF	#2

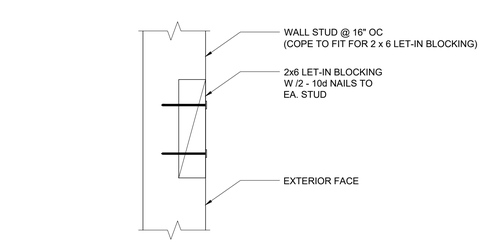
COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE	NUMBER	SIZE	LUMBER	TYPE
9'-6" TO 10'-6"	3070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2
	4070	NO PLASTER	(1)	2X4	HF	#2		N/A			(2)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2
	6040	NO PLASTER	(2)	2X4	HF	#2	(2)	2X4	HF	#2	(3)	2X4	HF	#2
		NO PLASTER (OPT)	(2)	2X4	DF	#2	(2)	2X4	DF	#2	(3)	2X4	DF	#2
	8040	NO PLASTER	(3)	2X4	HF	#2	(3)	2X4	HF	#2	(4)	2X4	HF	#2
		NO PLASTER (OPT)	(3)	2X4	DF	#2	(3)	2X4	DF	#2	(3)	2X4	DF	#2

NOTE:
2X4 WALL FRAMING NOT ALLOWED WITH PLASTER WALL FINISH

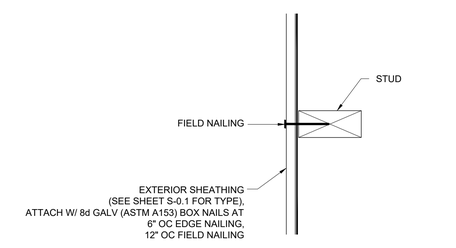
2x4 OPENING STUDS SCHEDULE 4



WINDOW SILL AND JAMB SCALE : 3"=1'-0" 19



LET-IN BLOCK ATTACHMENT SCALE : 3"=1'-0" 14

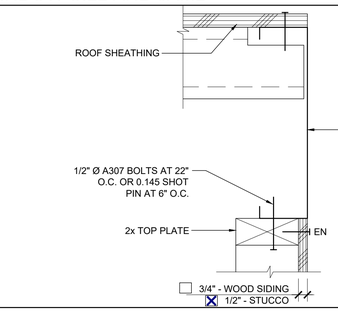


SECTION AT SHEATHING TO STUD ATTACHMENT SCALE : 3"=1'-0" 9

COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING					4" CORNER OF WOOD WALL FRAMING (ZONE 5)				
		NUMBER	SIZE	LUMBER	TYPE	OC	NUMBER	SIZE	LUMBER	TYPE	OC
LESS THAN 9'-6"	NO PLASTER	(1)	2X4	HF	#2	16" OC	(1)	2X4	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X4	DF	#2	16" OC	(1)	2X4	DF	#2	16" OC
9'-6" TO 10'-6"	NO PLASTER	(1)	2X4	HF	#2	16" OC	(1)	2X4	HF	#2	12" OC
	NO PLASTER (OPT)	(1)	2X4	DF	#2	16" OC	(1)	2X4	DF	#2	16" OC

NOTE:
2X4 WALL FRAMING NOT ALLOWED WITH PLASTER WALL FINISH

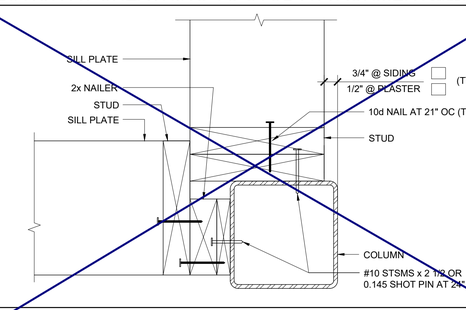
2x4 WALL FRAMING SCHEDULE 5



TOP PLATE AT ROOF BEAM SCALE : 3" = 1'-0" 20

DOOR	WINDOW	STANDARD		WELDED FRAME	
2070		26"	85"	28 1/4"	86 1/4"
3070		38"	85"	40 1/4"	86 1/4"
4070		50"	85"	52 1/4"	86 1/4"
6070		74"	85"	76 1/4"	86 1/4"
	4040	47 3/4"	47 5/8"	52 1/4"	52 1/4"
	6040	71 3/4"	47 5/8"	76 1/4"	52 1/4"
	8040	95 3/4"	47 5/8"	100 1/4"	52 1/4"
	6020	71 3/4"	23 5/8"	76 1/4"	28 1/4"
	8020	95 3/4"	23 5/8"	100 1/4"	28 1/4"

ROUGH OPENING SCHEDULE 15



COLUMN AT ENDWALL (2x8) SCALE : 3"=1'-0" 10

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APP. 03-120102 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CRE

SILVER CREEK
Building for the Next Generation
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

WALL FRAMING DETAILS
WOOD STUDS

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24075 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

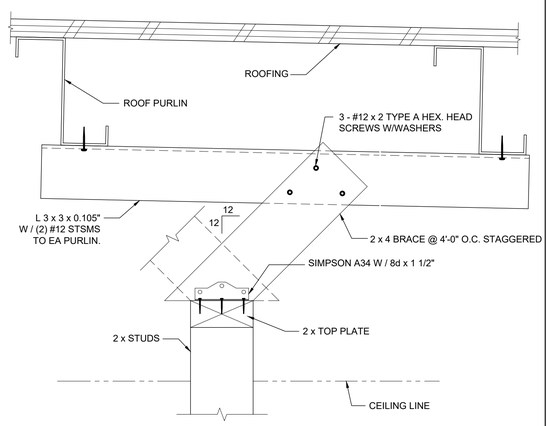
REVISIONS
1
2
3
4
5
6
7
8

SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 8-10-18

P.C. SHEET NUMBER
S-5.10

PHASE III



INTERIOR PARTITION

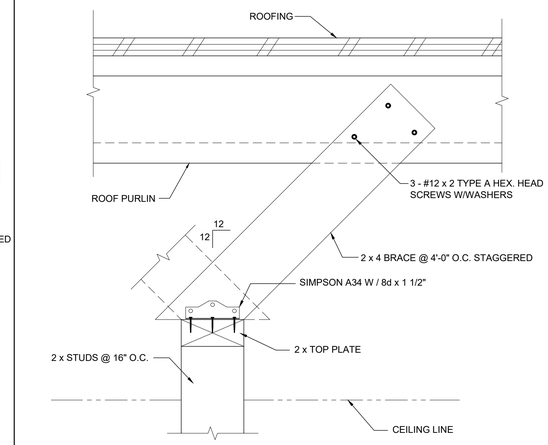
SCALE : 3" = 1'-0" | 14

COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER **	SIZE **	LUMBER	TYPE	NUMBER **	SIZE **	LUMBER	TYPE	NUMBER **	SIZE **	LUMBER	TYPE
LESS THAN 9'-6"	3070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
	4070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
	6040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
	8040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
		W/ PLASTER	(2)	2X6	HF	#2	(2)	2X6	HF	#2	(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
9'-6" TO 10'-6"	3070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(2)	2X6	DF	#2
	4070	NO PLASTER	(1)	2X6	HF	#2		N/A			(1)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(1)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2		N/A			(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2		N/A			(2)	2X6	DF	#2
	6040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
		W/ PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		W/ PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
	8040	NO PLASTER	(1)	2X6	HF	#2	(1)	2X6	HF	#2	(2)	2X6	HF	#2
		NO PLASTER (OPT)	(1)	2X6	DF	#2	(1)	2X6	DF	#2	(2)	2X6	DF	#2
		W/ PLASTER	(2)	2X6	HF	#2	(2)	2X6	HF	#2	(3)	2X6	HF	#2
		W/ PLASTER (OPT)	(2)	2X6	DF	#2	(2)	2X6	DF	#2	(2)	2X6	DF	#2

**2x6 AND 2x8 STUD OPTIONS MAY BE SUBSTITUTED IN LIEU OF 2x4 - NUMBER OF STUDS DO NOT CHANGE AND SHALL REMAIN THE SAME AS SHOWN ON SCHEDULE. SEE DETAILS 2 OR 10/-

2x6 OPENING STUDS SCHEDULE

19



INTERIOR PARTITION

SCALE : 3" = 1'-0" | 12

COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER				SILL				FULL HEIGHT KING STUD			
			NUMBER **	SIZE **	LUMBER	TYPE	NUMBER **	SIZE **	LUMBER	TYPE	NUMBER **	SIZE **	LUMBER	TYPE
LESS THAN 9'-6"	3070	NO PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
	4070	NO PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
	6040	NO PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
	8040	NO PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
9'-6" TO 10'-6"	3070	NO PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
	4070	NO PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2		N/A			(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2		N/A			(1)	2X8	DF	#2
	6040	NO PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
	8040	NO PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		NO PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2
		W/ PLASTER	(1)	2X8	HF	#2	(1)	2X8	HF	#2	(1)	2X8	HF	#2
		W/ PLASTER (OPT)	(1)	2X8	DF	#2	(1)	2X8	DF	#2	(1)	2X8	DF	#2

**2x6 AND 2x8 STUD OPTIONS MAY BE SUBSTITUTED IN LIEU OF 2x4 - NUMBER OF STUDS DO NOT CHANGE AND SHALL REMAIN THE SAME AS SHOWN ON SCHEDULE. SEE DETAILS 2 OR 10/-

2x8 OPENING STUDS SCHEDULE

14

COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING					4" CORNER OF WOOD WALL FRAMING (ZONE 5)				
		NUMBER **	SIZE **	LUMBER	TYPE	OC	NUMBER **	SIZE **	LUMBER	TYPE	OC
LESS THAN 9'-6"	NO PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC
	W/ PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC
9'-6" TO 10'-6"	NO PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC
	W/ PLASTER	(1)	2X6	HF	#2	16" OC	(1)	2X6	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X6	DF	#2	16" OC	(1)	2X6	DF	#2	16" OC

**2x6 AND 2x8 STUD OPTIONS MAY BE SUBSTITUTED IN LIEU OF 2x4 - NUMBER OF STUDS DO NOT CHANGE AND SHALL REMAIN THE SAME AS SHOWN ON SCHEDULE.

NOTE: 2x6 & 2x8 SPACING MAY BE 24" O.C. OPTIONAL

2x6 WALL FRAMING SCHEDULE

20

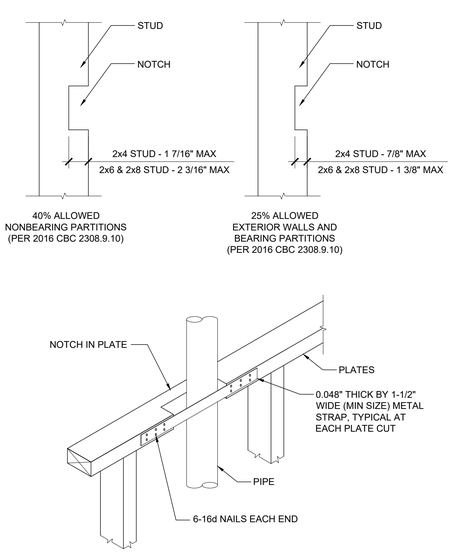
COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING					4" CORNER OF WOOD WALL FRAMING (ZONE 5)				
		NUMBER **	SIZE **	LUMBER	TYPE	OC	NUMBER **	SIZE **	LUMBER	TYPE	OC
LESS THAN 9'-6"	NO PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC
	W/ PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC
9'-6" TO 10'-6"	NO PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC
	W/ PLASTER	(1)	2X8	HF	#2	16" OC	(1)	2X8	HF	#2	16" OC
	W/ PLASTER (OPT)	(1)	2X8	DF	#2	16" OC	(1)	2X8	DF	#2	16" OC

**2x6 AND 2x8 STUD OPTIONS MAY BE SUBSTITUTED IN LIEU OF 2x4 - NUMBER OF STUDS DO NOT CHANGE AND SHALL REMAIN THE SAME AS SHOWN ON SCHEDULE.

NOTE: 2x6 & 2x8 SPACING MAY BE 24" O.C. OPTIONAL

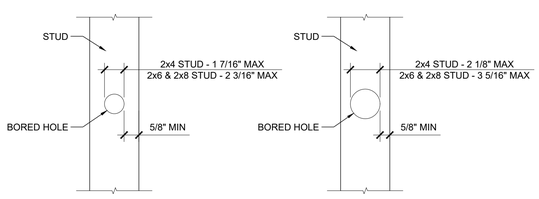
2x8 WALL FRAMING SCHEDULE

15



CUTTING AND NOTCHING

SCALE : 1 1/2" = 1'-0" | 7



BORED HOLES

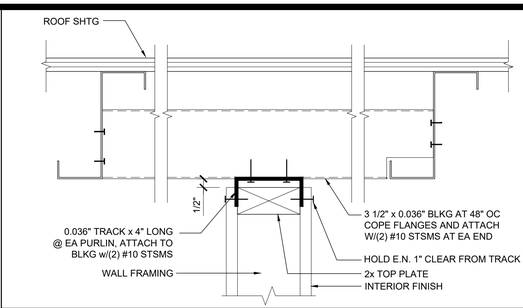
SCALE : 1 1/2" = 1'-0" | 8

NOT USED

9

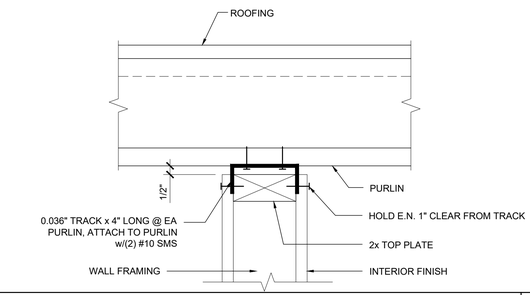
NOT USED

10



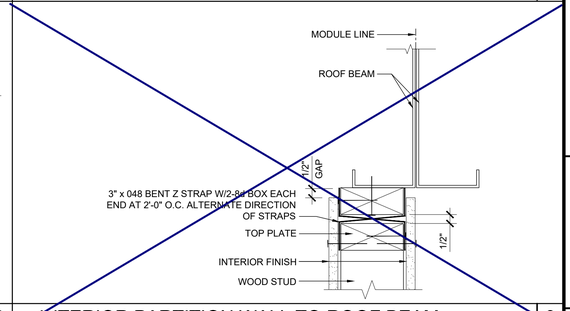
FULL HEIGHT INTERIOR PARTITION

SCALE : 3" = 1'-0" | 1



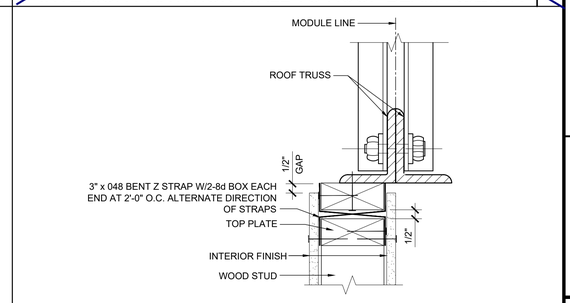
FULL HEIGHT INTERIOR PARTITION

SCALE : 3" = 1'-0" | 2



INTERIOR PARTITION WALL TO ROOF BEAM

SCALE : 3"=1'-0" | 3



INTERIOR PARTITION WALL TO ROOF TRUSS

SCALE : 3"=1'-0" | 4

NOT USED

5

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK

Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

WALL FRAMING DETAILS
WOOD STUDS

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24075 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE §5116 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS

1 2 3 4 5 6 7 8

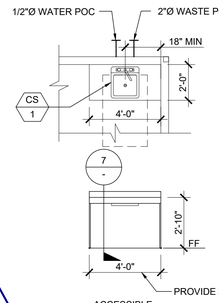
SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 8-10-18

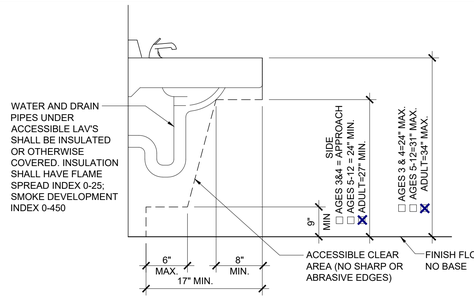
P.C. SHEET NUMBER

S-5.11

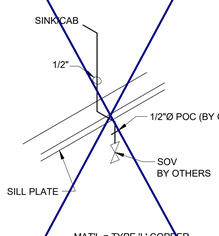
PHASE III



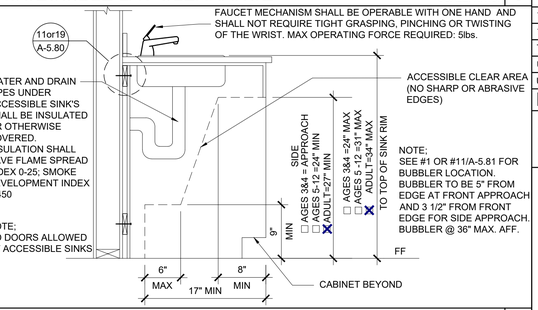
TYPICAL SINK CABINET 11



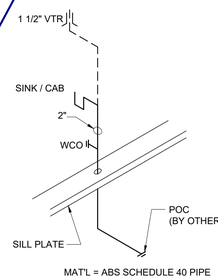
ACCESSIBLE LAV CLEARANCE SCALE: N.T.S. 6



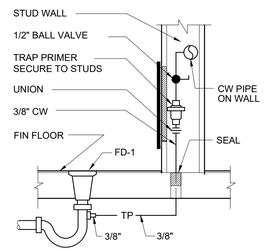
SINK CABINET COLD WATER SUPPLY SCALE: N.T.S. 12



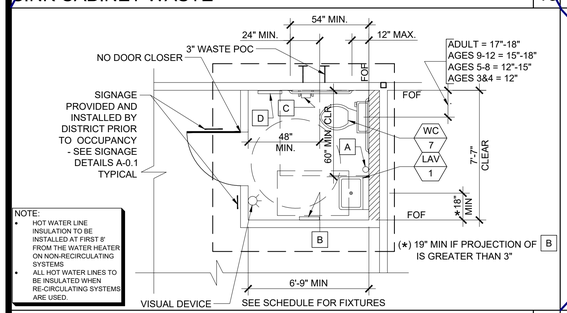
ACCESSIBLE SINK CABINET (OPTION) SCALE: N.T.S. 7



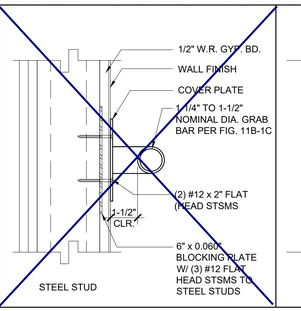
SINK CABINET WASTE 13



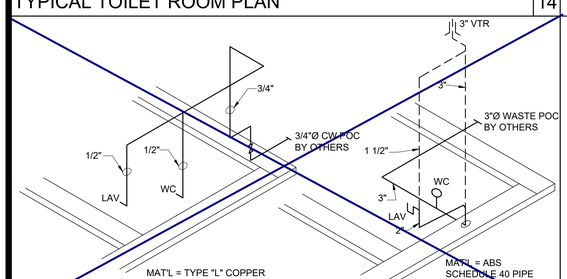
TRAP PRIMER TO FLOOR DRAIN SCALE: N.T.S. 8



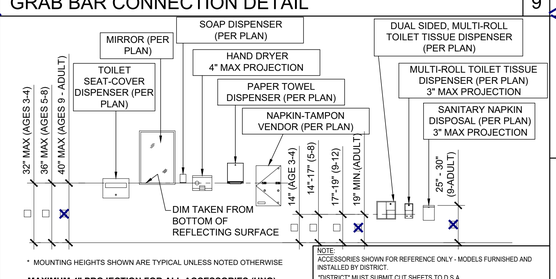
TYPICAL TOILET ROOM PLAN 14



GRAB BAR CONNECTION DETAIL 9



TOILET ROOM COLD WATER SUPPLY AND WASTE 15



TOILET ACCESSORIES MOUNTING HEIGHTS 10

THE DIVISION OF THE STATE ARCHITECT, OFFICE OF REGULATION SERVICES ACCEPTS THE FOLLOWING DIMENSIONS AS ADEQUATELY SERVING THE NEEDS OF CHILDREN IN PROJECTS UNDER THEIR JURISDICTION. THESE DIMENSIONS ARE BASED ON CBC TABLE 11B-604.9 SUGGESTED DIMENSIONS FOR SERVING CHILDREN AGES 3 TO 12.

ACCESSIBILITY DIMENSIONS	11B-604.9 SUGGESTED DIMS			
	ADULT	AGES 9 THROUGH 12	AGES 5 THROUGH 8	AGES 3 AND 4
TOILET CENTERING FROM WALL	17" - 18"	15" - 18"	12" - 15"	12"
TOILET SEAT HEIGHT (DIM TO TOP OF SEAT)	17" - 19"	15" - 17"	12" - 15"	11" - 13"
GRAB BAR HEIGHT (TO TOP)	33" - 36"	25" - 27"	20" - 25"	18" - 20"
TOILET PAPER IN FRONT OF TOILET	7" - 9"	7" - 9"	7" - 9"	7" - 9"
NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX.	12" MAX.	N/A	N/A
MIRROR HEIGHT (TO BOTTOM OF GLASS)	40" MAX.	40" MAX.	36" MAX.	32" MAX.
DISPENSER HEIGHT	19" MIN.	17" - 19"	14" - 17"	14"
LAVATORY/SINK TOP HEIGHT	34" MAX.	31" MAX.	31" MAX.	24" MAX.
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	24" MIN.	24" MIN.	SIDE APPROACH
URINAL LIP HEIGHT	17" MAX.	17" MAX.	15" MAX.	13" MIN.
URINAL FLUSH HANDLE HEIGHT	44" MAX.	44" MAX.	37" MAX. *	32" MAX. *
DRINKING FOUNTAIN BUBBLER HT. (LOW)	36" MAX.	30" MAX.	30" MAX.	30" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	SIDE APPROACH	SIDE APPROACH	SIDE APPROACH
RAMP/STAIR HANDRAIL HEIGHT (TO TOP)	34" - 38"	34" - 38"	34" - 38"	34" - 38"

STANDARD DIMENSIONS	ALTERNATE HEIGHT (DIMS)			
	ADULT	AGES 9 THROUGH 12	AGES 5 THROUGH 8	AGES 3 AND 4
TOILET CENTERING FROM WALL/PARTITION	15" MIN	15" MIN	15" MIN	15" MIN
TOILET SEAT HEIGHT/DIM TO TOP OF SEAT	15"	15"	15"	15"
TOILET CLEARANCE/FRONT	24"	24"	24"	24"
URINAL LIP HEIGHT	24"	24"	18"	16"
URINAL CENTER FROM WALL/PARTITION	12"	12"	12"	12"

PLUMBING ACCESSORIES (REF. ONLY-MODELS FURNISHED AND INSTALLED BY DISTRICT U.N.O.)

A SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX. PROJECTION

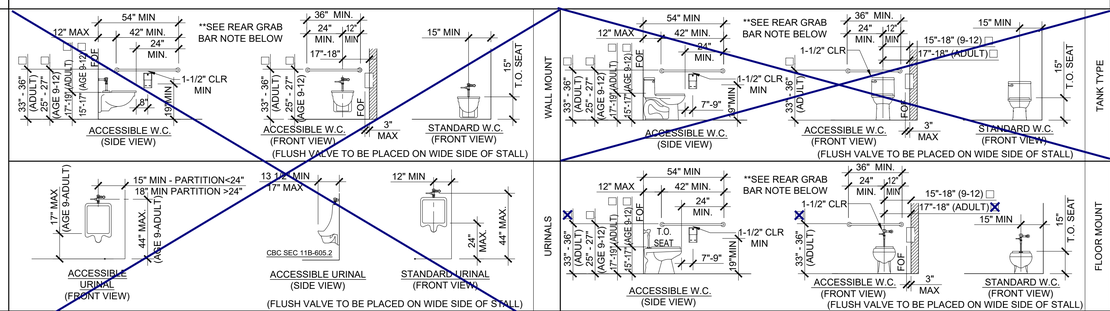
B PAPER TOWEL DISPENSER/TRASH BIN COMBO: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30x48 CLEAR SPACE OF FIXTURE

C TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION

D TOILET SEAT DISPENSER: SURFACE MOUNTED

* 44" MAX. PER CODE

SEE SHEET P-1.01N/P-1.02N FOR PLUMBING FIXTURE SCHEDULE



TOILET FIXTURE MOUNTING HEIGHTS(AGES 9 TO ADULT) 3

TOILET FIXTURE MOUNTING HEIGHTS (AGES 5 THRU 8) 4

TOILET FIXTURE MOUNTING HEIGHTS (AGES 3 AND 4) 5

TOILET FIXTURE MOUNTING HEIGHTS (AGES 3 AND 4) 18

** NOTE;
WHERE FLUSH VALVES OR TOILET TANKS CONFLICT WITH THE REAR GRAB BAR, THE 36" REAR GRAB BAR SHALL BE SHIFTED TO THE OPEN SIDE OF THE TOILET AREA WITH 1 1/2" MIN. CLEARANCE FROM FIXTURE OR CONTROL VALVE.

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DIV. OF THE STATE ARCHITECT
APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

PLUMBING DETAILS AND SCHEDULE

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24975
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT PER CBC SEC. 2110 (3) A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC_RM_ FLS_DS_SSR_KER
DATE 10/05/2018

REVISIONS

1	PC REVISION 12/13/2012
2	
3	
4	
5	
6	
7	
8	

SILVER CREEK INDUSTRIES
24' x 60' PC

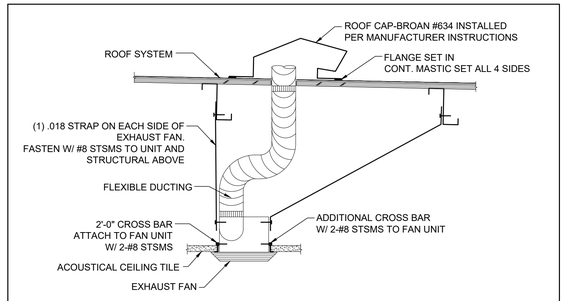
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 8-10-18

P.C. SHEET NUMBER
P-1.01

PHASE III

LEGEND

SYMBOL	ABB.	DESCRIPTION
	SAD	SUPPLY AIR DUCT
	RAD	RETURN AIR DUCT
	EAD	EXHAUST AIR DUCT
	(L)	LINED DUCTWORK
	CD	SUPPLY CEILING DIFFUSER
	CR	RETURN CEILING REGISTER
	ER	EXHAUST CEILING REGISTER
	VTR	VENT THRU ROOF
	FD	FIRE DAMPER
	MVD	MANUAL VOLUME DAMPER
UC	UC	UNDERCUT DOOR
T	STAT	THERMOSTAT
BT	BT	BYPASS TIMER
	P.O.C	POINT OF CONNECTION



EXHAUST FAN INSTALLATION — SCALE : 1"=1'-0"

CEILING MOUNTED EXHAUST FAN SCHEDULE

SYM.	LOCATION	SERVICE	MANUF.	MODEL	CFM	SONES	SP	ELECTRICAL VOLTS	Ø	POWER	WGT.	REMARKS
EF 1	CEILING	TOILET EXHAUST	BROAN*	676	100	4.0	0.25	120	1	156 WATTS	7 LBS.	WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF 2	CEILING	TOILET EXHAUST	BROAN*	L100	109	1.0	0.25	120	1	87 WATTS	22.80 LBS.	WITH BROAN ROOF CAP #634. PROVIDE 6" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF 3	CEILING	TOILET EXHAUST	BROAN*	L200	210	2.0	0.25	120	1	127 WATTS	23.0 LBS.	WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF 4	CEILING	TOILET EXHAUST	BROAN*	L300	308	2.8	0.25	120	1	212 WATTS	23.10 LBS.	WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.

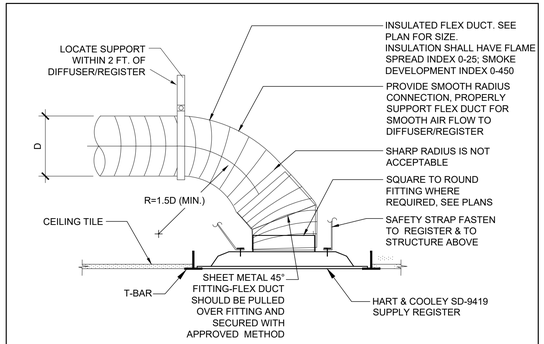
OR APPROVED EQUAL.

PERFORATED FACE GRILLE SCHEDULE (SUPPLY)

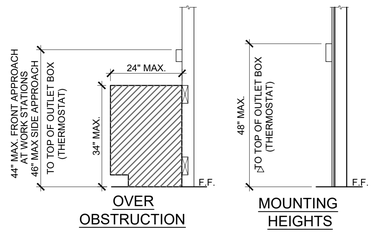
ITEM	NECK SIZE	RANGE CFM	MFG & MODEL #
T-BAR SUPPLY 16X16-4W	6"Ø	0 - 150	Fixed Curve Blade, 4-way throw
	8"Ø	150 - 230	For lay-in T-bar ceilings use Harth & Cooley SD-9419 . (Sizes as shown on Mech Plan)
	10"Ø	230 - 350	
	12"Ø	350 - 460	
	14"Ø	460 - 640	

PERFORATED FACE GRILLE SCHEDULE (RETURN)

ITEM	NECK SIZE	RANGE CFM	MFG & MODEL #
T-BAR RETURN	6"Ø	0 - 230	Perforated face
	10"Ø	230 - 460	For lay-in T-bar ceilings use Shoemaker 105P with 24 ga., 45 deg. angle. (Sizes as shown on Mech Plan.)
	14"Ø	460 - 710	



SUPPLY CEILING DIFFUSER MOUNTING — SCALE: NONE — D



△ PROVIDE MIN 30"x48" CLR FLOOR SPACE FOR PERPENDICULAR APPROACH AT EACH LOCATION

GENERAL NOTES

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

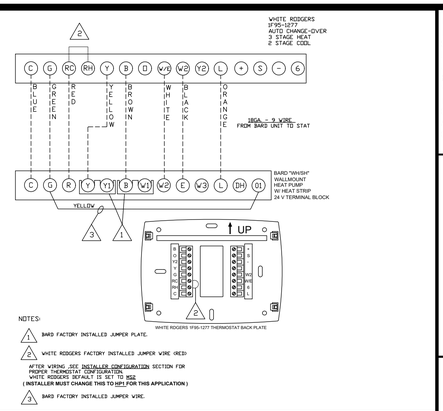
PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2016 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #).

COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AN BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.

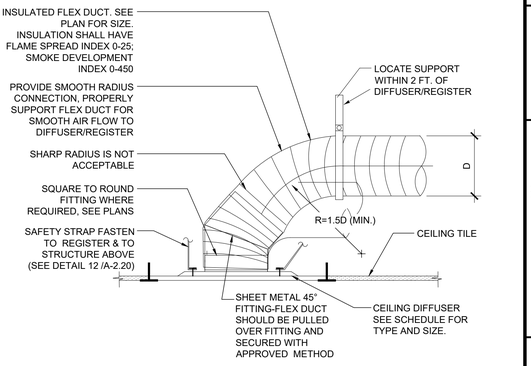
THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.



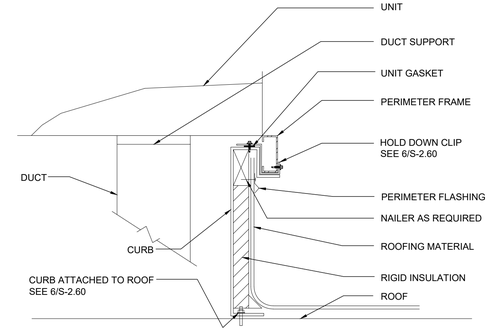
NOTES:

1. BARD FACTORY INSTALLED JUMPER PLATE.
2. WHITE RODGERS FACTORY INSTALLED JUMPER WIRE ORED: AFTER WIRING, SEE INSTALLER CONFIGURATION SECTION FOR PROPER THERMOSTAT CONFIGURATION. INSTALLER MUST CHANGE DH TO H01 FOR 2ND STAGE. (INSTALLER MUST CHANGE THIS TO H01 FOR THIS APPLICATION)
3. BARD FACTORY INSTALLED JUMPER WIRE.

UNIT TO THERMOSTAT WIRING — SCALE: NONE — A



RETURN CEILING DIFFUSER MOUNTING — SCALE: NONE — B



A/C UNIT MOUNTING — SCALE: NONE — C

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APP. 03-120102 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/27/2020

SILVER CRE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:

MECHANICAL NOTES, SCHEDULES, & DETAILS

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CODE: §1613 OSC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS

1	
2	
3	
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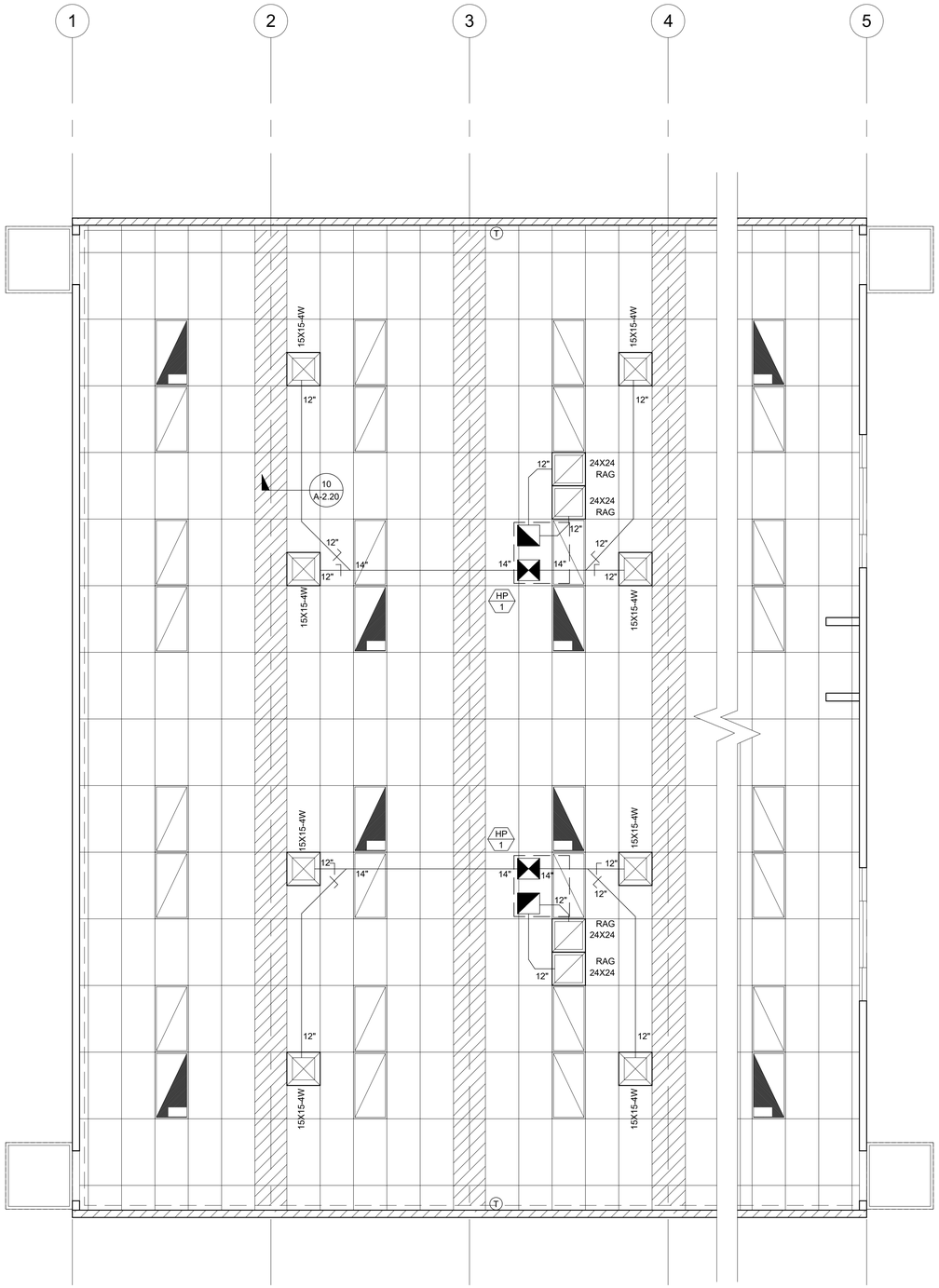
SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

P.C. SHEET NUMBER
M-0.1

PHASE III



MECHANICAL PLAN - ROOF MOUNT - OPTION A-3

SCALE: 1/4" = 1' - 0" | 1

14 SEER			
SINGLE PACKAGE ROOF TOP HEAT PUMP			
	STANDARD	OPTION 1	OPTION 2
TAG	HP-1	HP-1	HP-1
NOMINAL TONNAGE	4	5	3.5
MANUFACTURER	DAY & NIGHT	DAY & NIGHT	DAY & NIGHT
MODEL #	PHD448005K	PHD460005K	PHD442005K
CFM	1600	1750	1400
STATIC PRESSURE	0.2	0.2	0.15
DRIVE	DIRECT	DIRECT	DIRECT
MCA	59	66	55
MCOP	60	70	60
VOLTAGE	230/208-1	230/208-1	230/208-1
WIRE SIZE (PWR/GRND)	4 / 8	4 / 8	6 / 10
DESIGN RETURN AIR (DB/WB)	80 / 67	80 / 67	80 / 67
SENSIBLE COOLING @ 95° F	33,500	39,800	28,500
TOTAL COOLING @ 95° F	48,000	57,500	41,000
HEATING CAPACITY @ 47° F	46,000	57,500	40,000
HEATING CAPACITY @ 17° F	25,800	33,000	22,600
OPERATING WEIGHT	560 #	590 #	560 #
SEER / EER	14.0 / 12.0	14.0 / 11.5	14.0 / 11.5
HSPF	8.0	8.0	8.0
COP @ 47° F	3.60	3.70	3.60
COP @ 17° F	2.40	2.45	2.40

NOTES:
PROVIDE SET-BACK THERMOSTAT.
MODEL # SHOWN IS FOR UNIT WITH OPTIONAL 5.0 KW AUXILIARY HEAT STRIP, IF HEAT STRIP IS NOT USED THE MCA AND MCOP MUST BE REVISED, HEAT STRIPS LARGER THAN THE SIZE SHOWN MAY NOT BE USED.
MINIMUM OUTSIDE AIR SHALL BE NO LESS THAN 15 CFM PER EXPECTED OCCUPANT
THE UNIT SHALL UTILIZE DEMAND CONTROL VENTILATION, THE CO2 SENSOR SHALL BE LOCATED SO THAT IT IS NOT EXPECTED TO BE OBSTRUCTED BY FURNITURE OR EQUPIMENT AND SHALL BE INSTALLED NO LESS THAN 36" AFF AND NO MORE THAN 72" AFF.
AIR HANDLERS WITH OTHER VOLTAGES SHALL BE ACCEPTABLE.
AIR HANDLERS OTHER THAN THE MAKE AND MODEL LISTED ABOVE SHALL BE ACCEPTABLE WHEN THE NOMINAL TONNAGE DOES NOT EXCEED 5 TONS AND THE EER AND COP VALUES ARE NO LESS THAN THOSE SHOWN ABOVE.

NOTE:
THIS MECHANICAL SHALL PROVIDE A MINIMUM OUTSIDE AIR RATE OF 0.38 CFM / SF OR 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE DESIGN INCLUDED WITHIN THIS PC ASSUMES AN OCCUPANT LOAD OF 130 PEOPLE FOR THE LARGEST BUILDING SIZE. THE BUILDING MANUFACTURER SHALL VERIFY THE EXPECTED OCCUPANT LOAD WITH THE SCHOOL DISTRICT PRIOR TO SELECTION OF THE MECHANICAL EQUIPMENT FROM THE OPTIONS INCLUDED IN THE. THE SELECTED EQUIPMENT SHALL BE ADDITIONAL OUTSIDE AIR REQUIREMENTS (IF APPLICABLE) UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING WILL BE LOCATED. AT THE TIME OF OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO THE BUILDING OWNER A CALCULATION INDICATING THE VOLUMES OF OUTSIDE AIR AND OF RECIRCULATED AIR THAT THE VENTILATION SYSTEM HAS BEEN DESIGNED TO PROVIDE.

VENTILATION CALCULATIONS:

MINIMUM REQUIRED VENTILATION (LARGEST BUILDING SIZE)
BUILDING AREA = 4320 SF
REQUIRED VENTILATION RATE = 0.38 CFM / SF
REQUIRED OUTSIDE AIR VOLUME = 4320 x 0.38 = 1642 CFM
NUMBER OF HVAC UNITS = 5
REQUIRED OUTSIDE AIR VOLUME PER HVAC UNIT = 1642 / 5 = 328.3 CFM

VENTILATION AS DESIGNED (LARGEST BUILDING SIZE)
BUILDING AREA = 4320 SF
OCCUPANCY FOR EGRESS PURPOSES = 4320 / 20 = 216 OCCUPANTS
ASSUMED # OF OCCUPANTS = 216 OCCUPANTS x 0.6 = 130
REQUIRED VENTILATION RATE = 15 CFM / OCCUPANT
REQUIRED OUTSIDE AIR VOLUME = 130 x 15 = 1950 CFM
NUMBER OF HVAC UNITS = 5
REQUIRED OUTSIDE AIR VOLUME PER HVAC UNIT = 1950 / 5 = 390 CFM

NOTE:
BUILDING MANUFACTURER SHALL LEAVE FOR THE BUILDING OWNER, AT OCCUPANCY, OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS, AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF THE MECHANICAL AND LIGHTING SYSTEMS.

NOTE:
THE OCCUPANCY SENSOR USED TO CONTROL THE HVAC EQUIPMENT SHALL BE SEPARATE FROM THE OCCUPANCY SESNOR USED TO CONTROL THE LIGHTING SYSTEM. THIS SENSOR MAY BE INTEGRATED INTO THE THERMOSTAT OR MAY BE A SEPARATE DEVICE.

NOTE;
BUILDINGS LOCATED IN CLIMATE ZONE 16 SHALL UTILIZE A 5 KW ELECTRIC RESISTANCE HEATING STRIP FOR SUPPLEMENTAL HEATING

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DATE: 03/27/2020

SILVER CREE

SILVER CREEK
Building for the Next Generation

2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

SHEET TITLE:
MECHANICAL PLAN
ROOF MOUNT
36' TO 72' x 60'
24' x 60'

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CODE: 2016 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
04 - 116719 INCR: 0
AC RM FLS DS SSR KER
DATE 10/05/2018

REVISIONS
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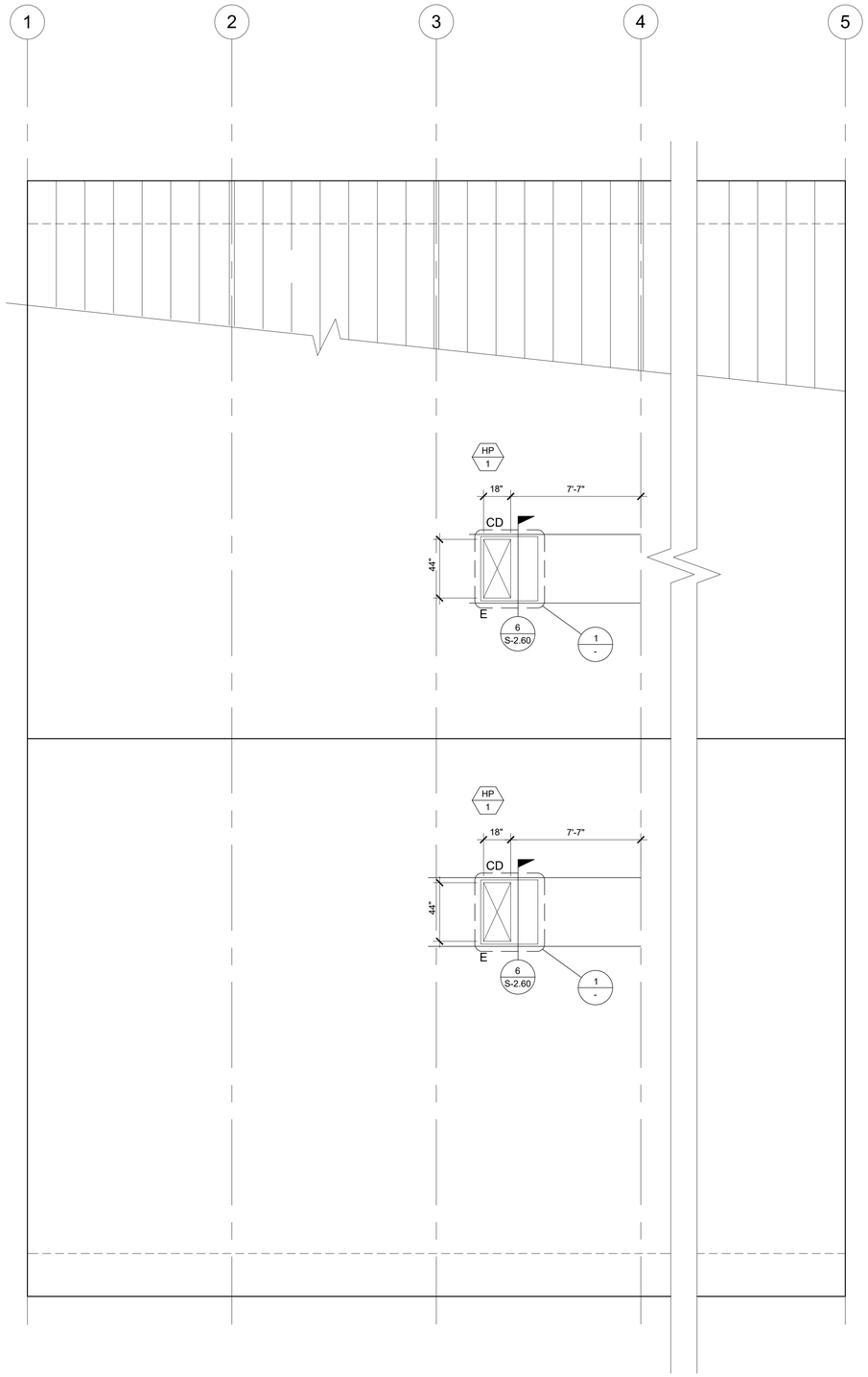
SILVER CREEK INDUSTRIES
24' x 60' PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	8-10-18

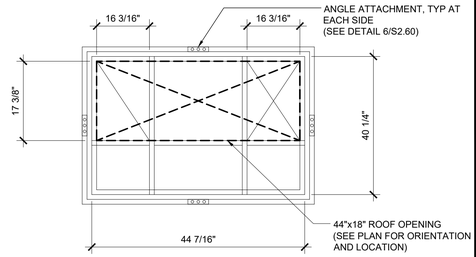
P.C. SHEET NUMBER
M-4.01

PHASE III



MECHANICAL ROOF PLAN

SCALE: 1/4" = 1'-0" | 4



HEAT PUMP CURB PLAN VIEW

SCALE: NTS | 1

3

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MECHANICAL ROOF PLAN
ROOF MOUNT
36' TO 72' x 60'

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24775
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT OF RECORD
SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT
CCR, TIT.24 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

FILE NUMBER: 33-SILVER
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DIVISION OF THE STATE ARCHITECT
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AC RM FLS DS SSR KER
DATE 10/05/2018

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SILVER CREEK INDUSTRIES
24' x 60' PC

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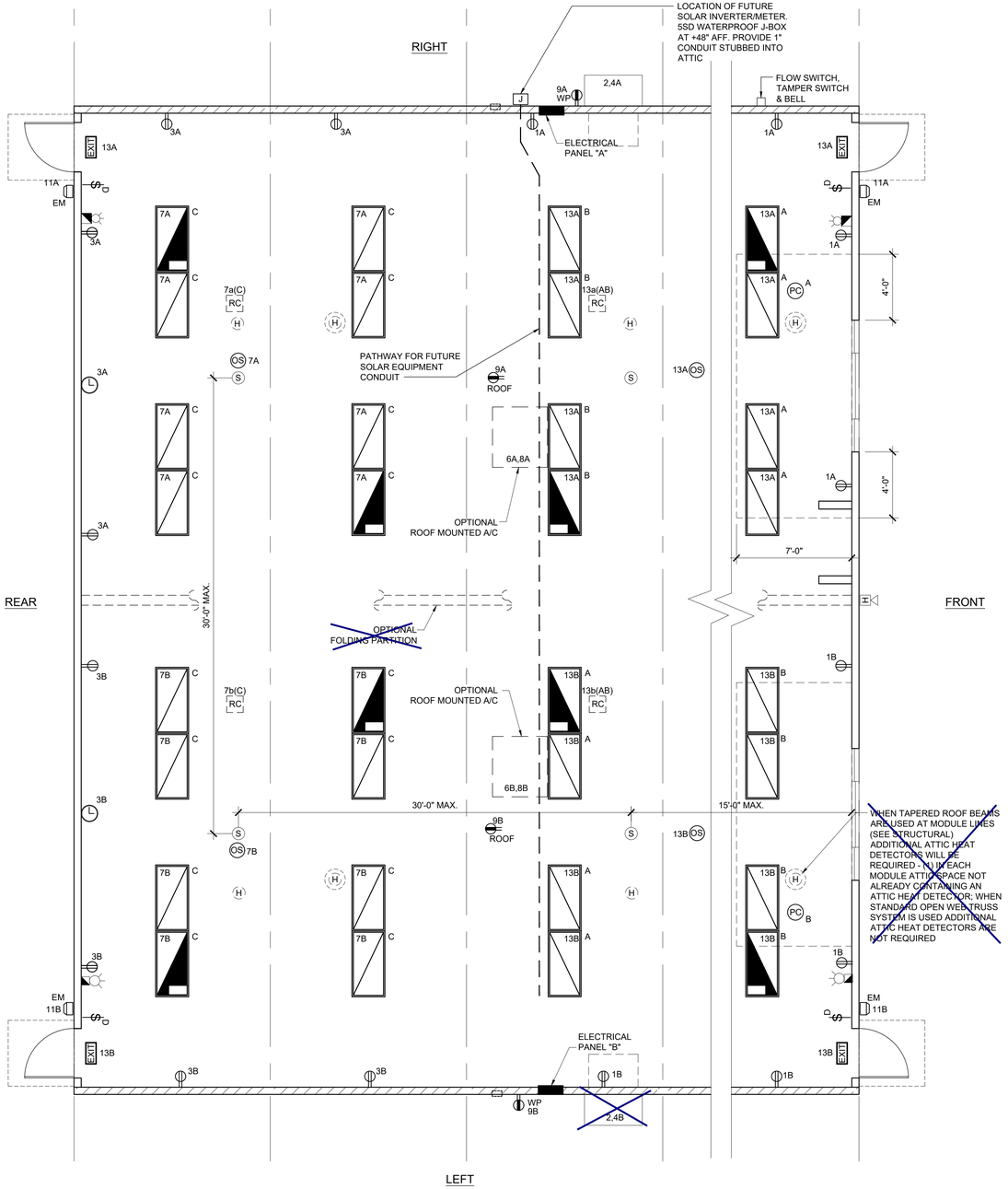
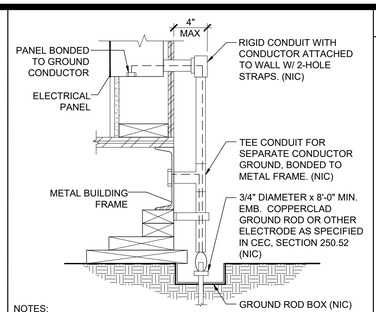


ELECTRICAL PLAN - 36' TO 72' x 60'

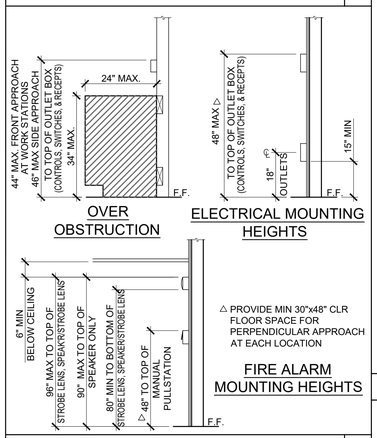
SCALE: 1/4" = 1'-0" | 4



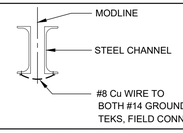
NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66
2. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
4. ALL MODULES OF METAL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP.
5. CHECK RESISTANT TO GROUND ROD, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56).

TYPICAL GROUNDING DETAIL | 1



ACCESSIBLE HEIGHTS | 2



GROUND JUMPER AT MODLINE | 3

GROUND JUMPER AT MODLINE

EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD, WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL).

TESTING: TEST FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS. INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCES TO 25 OHMS OR LESS. (BY SITE ELECTRICAL).

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.

SCHOOL EQUIPMENT ANCHORAGE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2016 CBC SECTIONS 1616A.1.24, 1616A.1.25 & 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #).

COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AN BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

FIRE ALARM NOTES

1. SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES PROVIDED AND INTERCONNECTED BY OTHERS TO FIRE ALARM SYSTEM
2. PROVIDE DEDICATED FIRE ALARM 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED-ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT". NFPA 72 4.4.1.4.2.2

CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 90°C. COPPER)

WIRE SIZE	CAPACITY	WIRE TYPE	NO. OF CONDUCTOR PERMITTED 1/2" C	3/4" C	1" C	1 1/4" C
#12	20A	THHN	9	16	25	45
#10	30A	THHN	5	10	16	28
#8	45A	THHN	2	5	8	14
#6	65A	THHN	1	3	5	10
#4	85A	THHN	1	2	4	7

JUNCTION BOX SIZE TABLE

BOX	SIZE	CU. IN.	MAX NO. OF CONDUCTORS #12	#10	#8	#6
4SS	1 1/4" x 4" SQ	18.0	8	7	6	0
4S	1 1/2" x 4" SQ	21.0	9	8	7	0
4SD	2 1/8" x 4" SQ	30.3	13	12	10	6
4SX	2 7/8" x 4" SQ	43.5	23	21	17	10
5SD	2 1/8" x 4-11/16" SQ	42.0	18	16	14	6
5SX	3 7/8" x 4-11/16" SQ	86.0	38	34	28	17
664	4" x 6" SQ	144.0	64	57	48	28

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

LEGEND

- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 60 WATTS MAX.
- WALL MOUNTED HVAC UNIT. SEE MECHANICAL DWGS
- ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DWGS
- ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT (U.N.O.)
- (OS) CEILING MOUNTED OCCUPANCY SENSOR. WATTSTOPPER #LMPC-100 OR EQUAL.
- (PC) CEILING MOUNTED PHOTOCELL, WATTSTOPPER #LMLS-500
- (US) ULTRASONIC CEILING OCCUPANCY SENSOR. WATTSTOPPER W-500A OR EQUAL. SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.
- WS-1 SINGLE SWITCH WALL OCCUPANCY SENSOR. WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM) LESS THAN 100 SQ FT W/ (1) CIRCUIT.
- RC LIGHTING MANAGEMENT SYSTEM ROOM CONTROLLER, INSTALLED ABOVE CEILING, LOCATION AND # OF LOADS/ZONES TO BE VERIFIED, WATTSTOPER # LMRC-2XX
- $D SINGLE BUTTON DIMMER SWITCH, AT +48" AFF. TO TOP OF OUTLET BOX, WATTSTOPPER #LMDM-101
- $ LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- $3 3-WAY LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- $K KEYED SWITCH MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- DUPLEX (WALL MOUNTED) RECEPTACLE 15A - 125V - 3 WIRE. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF DEVICE
- WP EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24 " AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)
- GFI GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS
- ROOF ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE
- EM EXTERIOR LED LIGHT FIXTURE W/ 90 MIN. EMERGENCY BATTERY BACKUP WHEN 'EM' IS DESIGNATED NEXT TO FIXTURE W/ PHOTOCELL W/ 30w MAX. MOUNT AT +93" AFF
- (L) CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE
- EXIT EXIT SIGN WITH 90 MIN. BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. CLASSROOMS WITH ONE EXTERIOR DOOR - OPTIONAL)
- 4SD J-BOX FOR FIRE ALARM PULL STATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF OUTLET BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULL STRING
- 4SD J-BOX FOR FIRE ALARM STROBE OR VOICE EVAC SPEAKER (DEVICE BY OTHERS). BOTTOM OF LENS SHALL BE BETWEEN 80" AND 96" AFF AND WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULL STRING
- (H) 4SD J-BOX FOR EXTERIOR FIRE ALARM SPEAKER (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULL STRING
- RECESSED 4SD J-BOX W / COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULL STRING
- (S) 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- (H) 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- WH 4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT
- 100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH
- 300 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH
- 2x4 CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 60 WATTS MAX. EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE EQUIPPED WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.
- WALL MOUNTED LIGHT FIXTURE, 30 WATTS
- 4SD J-BOX FOR FUTURE DATA W/ SINGLE GANG RING W/ 1" CO STUB INTO ATTIC AND PULL STRING
- FS DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER FLOW SWITCH.
- TS DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER TAMPER SWITCH.
- (B) DEDICATED CIRCUIT w/ LOCK ON DEVICE FOR FIRE SPRINKLER BELL.

NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.

ELECTRICAL PANEL
WALL MOUNTED HVAC

VOLTS: 120/208 V | PANEL: "A" AND "B" | FEED: REAR
MAIN: 200 AMP | LOCATION: INTERIOR ACCESS | MOUNTING: FLUSH

LOAD	QTY	WATTS A@	WATTS B@	BREAKER Amps	BREAKER P	Circuit	A	B	Circuit	BREAKER Amps	BREAKER P	WATTS A@	WATTS B@	QTY	LOAD
RECEPTACLES	4	720		20	1	1			2	60	2	4025		1	3 1/2 TON HVAC - WALL MOUNT (4 KW)
RECEPTACLES/CLOCK	5		900	20	1	3			4	-	-		4025		
SPACE						5			6	60	2	4025		1	3 1/2 TON HVAC - WALL MOUNT (4 KW)
INTERIOR LIGHTS	8		960	20	1	7			8	-	-		4025		
EXTERIOR RECEPTACLE	1	180		20	1	9			10						
EXTERIOR LIGHTS	2		80	20	1	11			12						
INTERIOR LIGHTS	8	960		20	1	13			14						
						15			16						
DED. - SOLAR READY						17			18						
DED. - SOLAR READY						19			20	20	1		40		FIRE ALARM (NOTE #2)
A = 5885 WATTS / PHASE		1860	1940									8050	8090		B = 6005 WATTS / PHASE
TOTAL = 11890 WATTS		150 AMPS		120/208 VOLTS						1 Ø				3 WIRE	

ELECTRICAL PANEL
ROOF MOUNTED HVAC

VOLTS: 120/208 V | PANEL: "A" AND "B" | FEED: REAR
MAIN: 200 AMP | LOCATION: INTERIOR ACCESS | MOUNTING: FLUSH

LOAD	QTY	WATTS A@	WATTS B@	BREAKER Amps	BREAKER P	Circuit	A	B	Circuit	BREAKER Amps	BREAKER P	WATTS A@	WATTS B@	QTY	LOAD
RECEPTACLES	4	720		20	1	1			2	60	2	7600		1	3 1/2 TON HVAC - ROOF MOUNT (5 KW)
RECEPTACLES/CLOCK	5		900	20	1	3			4	-	-		7600		
SPACE						5			6	60	2	7600		1	3 1/2 TON HVAC - ROOF MOUNT (5 KW)
INTERIOR LIGHTS	8		960	20		7			8	-	-		7600		
EXTERIOR RECEPTACLE	1	180		20	1	9			10						
EXTERIOR LIGHTS	2		80	20	1	11			12						
INTERIOR LIGHTS	8	960		20	1	13			14						
						15			16						
DED. - SOLAR READY						17			18						
DED. - SOLAR READY						19			20	20	1		40		FIRE ALARM (NOTE #2)
A = 15,430 WATTS / PHASE		1860	1940									15200	15240		B = 15,550 WATTS / PHASE
TOTAL = 11890 WATTS		149 AMPS		120/208 VOLTS						1 Ø				3 WIRE	

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PHONE: 951-943-5393 FAX: 951-943-2211

PROJECT NAME:

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ELECTRICAL PLAN AND SCHEDULE 36' TO 72' x 60'

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT OF RECORD SUBMISSION DATE

PROJECT SPECIFIC STATE AGENCY APPROVAL

ORIGINAL PC STATE AGENCY APPROVAL

PRE-CHECK (PC) DOCUMENT CCR1, (5/11) 03C. A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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24' x 60' PC

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PHASE III