DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL

WELLNESS CENTER

1100 CITADEL STREET BAKERSFIELD, CA 93307 BAKERSFIELD CITY SCHOOL DISTRICT

SYMBOLS

- SHEET NUMBER

— DETAIL NUMBER

— SHEET NUMBER

ELEVATION DIRECTION

ELEVATION DATUM

---- ROOM NAME

100 **──** ROOM NUMBER

- ELEVATION IDENTIFICATION

INDICATES HEIGHT IN RELATION

ROOM NUMBER/FINISH TAG

WINDOW SCHEDULE KEY

KEYNOTE SCHEDULE KEY

DOOR SCHEDULE KEY

SEISMIC DESIGN

A. MODULAR BUILDINGS V=95MPH

DETAIL KEY



CALIFORNIA ENERGY CODE

ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES. AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION, AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELF ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED

A LISTING OF CERTIFIED ATT CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS /ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-

1 SHEET

2 SHEET

4 SHEET

M4.02

E-8.0

MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

FRAMING DETAILS

FRAMING DETAILS

HVAC PLAN

LUMBING PLAN

TLE 24 DOCS

TITLE 24 DOCS

GENERAL NOTES - LEGEND

MECHANICAL

ELECTRICAL

EXISTING ELECTRICAL SITE PLAN

PANELS & FIXTURE SCHEDULES

FIRE CALCULATIONS & DETAILS

FIRE ALARM RISER DIAGRAM

ELECTRICAL SPECIFICATIONS

FIRE ALARM SPECIFICATIONS

FIRE PROTECTION

FIRE SPRINKLER SITE PLAN & NOTES

FIRE SPRINKLER PIPING PLAN & RCP

FIRE SPRINKLER RCP

TIRE SPRINKLER NOTES AND DETAILS

FIRE ALARM SITE PLAN

ELECTRICAL FLOOR PLAN

LIGHTING FLOOR PLAN

FIRE ALARM PLAN

DATA SITE PLAN

SITE ENLARGED ELECTRICAL PLAN

SINGLE LINE DIAGRAM, NOTES AND SYMBOLS



integrated designs

ARCHITECTURE **ENGINEERING**

FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com

Ownership of Documents



TITLE SHEET

5527

elease: DSA BACKCHECK

ABBREVIATIONS VICINITY MAP

ON CENTER URINAL ACOUST., ACT. FABRIC WALL COVERING VENTILATE/VENTILATION FACE OF BLOCK FACE OF CONCRETE VENT THRÓUGH ROOF OVER (ON) OVERFĽOW VINYL COMPOSITION TILE FACE OF WALL **OVERHAND** VINYL WALL COVERING FACTORY FINISH FEMININE NAPKIN DISPOSAL PAIR FIBER GLASS F.G., FIBERGL FINISH PAPER TOWEL DISPENSER WATER PROOF FIRE EXTINGUISHER CABINET WATER RESISTANT FIRE RATED GYP. BD. WIRE GLASS TREATE PLUMRING PLBG. FIXED GLASS PLYWOOD PLYWD. WITHOUT FLAT HEAD WOOD BTM.,BTTM. FLOOR DRAIN

FLUOR.

GALV.

G.B.,GYP.BD.

HDW, HDWR

H.W.

MECH.

ROOF DRAIN

SIMIL AR

STAINLESS STEEL

STANDARD

STORAGE

STIFFENER

STRUCTURAL

SUSPENDED

TELEPHONE

THRESHOLD

TOLERANCE

TYPICAL

TRANSFORMER

TOILET PAPER HOLDER

SWITCH

DSA NOTES

CHANGED DOCUMENT (CCD) APPROVED BY THE DIVISION OF

A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE

DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342.

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED

BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE

ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH

NEW BUILDINGS SHALL BE PROVIDED WITH EMERGENCY

RESPONDER RADIO COVERAGE IN ACCORDANCE WITH CALIFORNIA FIRE CODE SECTION 510. DSA WILL NOT BE

REVIEWING OR APPROVING PLANS FOR THE REQUIRED

ARCHITECT OF RECORD (AOR) SHALL CONTACT THE LOCAL

FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS

EMERGENCY COMMUNICATION SYSTEM.

ABOVE ABOVE FINISHED FLOOR A.F.F.

ACOUSTICAL

ADJACENT

ALUMINUM

ANCHOR BOLT

ARCHITECTURA

BACKBOARD

RENCH MARK

BETWEEN

BLOCK

BUILDING

CADMIUM

CAST IRON

CEMENT

CIRCUIT

CENTERLINE

CERAMIC TIL

LEANOUT

CONDITION

CONNECTION

CONTINUOUS

CONTRACTOR

COORDINATE

COUNTERSINK

DEPARTMENT

DIAGONA

DIAMETER

DIMENSION

DIVISION

DOWNSPOL

LEVATION

ESTIMATE

EXHAUS

EXHAUST FAN

EXPANSION

DRAWING

DISPENSER / DISPOS.

DRINKING FOUNTAIN

CONSTRUCTION

CONSTRUCTION JOINT

CARRIAGE BOLT

CEILING DIFFUSER

CEILING REGISTEF

COMBINATION/COMBUSTION

COMPOSITION, COMPOSITE

CONCRETE MASONRY UNIT

ADJUSTABLE

AIR CONDITIONING

BENT ANCHOR BOLT

ASPHALT CONCRETI

BOUNDARY NAILING

AUTHORITY TO OBTAIN DESIGN AND EQUIPMENT

BAB.

FLUORESCENT

FOUNDATION

GAGE/GAUGE

GALVANIZED IRON

GYPSUM BOARD

FRAMING

GALVANIZE

GRAB BAR

GROUND

GYPSUM

HARDWARE

HEADER

HOLLOW METAL

INSIDE DIAMETER/DIMENSION

HORIZONTAL

HOT WATER

HOSE BIBB

INSULATION

INTERIOR

LAMINAT

LAVATORY

LINOLEUM

MACHINE SCREW

MANUFACTURE

MATERIAL

MAXIMUM

MECHANICAL

MEMBRANE

MILLIMETER

MISCELLANEOUS

NOT IN CONTRACT

NOT TO SCALE

MINIMUM

NUMBER

METAL TOILET PARTITION

LONG

JOINT

C.M.U.

CONN. CONST

CONT. CONTR.

COORD.

CSK.

CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL

THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART

POINT OF CONNECTION WOOD SCREWS POUND PER SQ. FOOT POUND PER SQ. INCH P.S.I. QUARTER QTR RAINWATER LEADER R.W.L. RECEPTACLE RECEP⁻ REFRIGERATOR REINF. REINFORCING REMOV. REMOVABLE REQUIRED RESILIENT REVISE, REVISION

RUBBER TOPSET BASE SANITARY NAPKIN DISPENSER S.N.D. SANITARY NAPKIN RECEPTACLE S.N.R. SEAT COVER DISPENSER

SELF-TAPPING SHEATHING SHEET METAL SHEET METAL & AIR CONDITIONING CONTRACTOR **SMACNA** NATIONAL ASSOCIATION SHEET METAL SCREWS S.M.S. SOAP DISPENSER SPECIFICATION SPLASH BLOCK

T.P.H.

TRANS.

STRUCT.,ST SUSP. TEL.,TELE

INTEGRATED DESIGNS by SOMAM, Inc 6011 N. FRESNO SUITE #130 FRESNO, CA 93710 TEL: 559-436-0881 ,FAX 559-436-0887 EMAIL: cflynn@somam.com MECHANICAL/PLUMBING ENGINEER INTEGRATED DESIGNS by SOMAM, Inc. 6011 N. FRESNO SUITE #130 RESNO, CA 93710

TEL: 559-436-0881 FAX

MAIL: Ilum@somam.com

559-436-0887

E BELLE TERRACE MARDI GRAS CT HEATHAMİAVE REESE AVE E CASA LOMA DF WATTS DR

ELEMENTARY SCHOOL 100 CITADEL STREE BAKERSFIELD, CA 93307

DSA NOTES THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OF RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24 CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD). OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRE WORK SHALL BY SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C PART 1, TITLE 24, CCR).

ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH ONSIDERATIONS SHALL COMPLY WITH ALL LOCAL

DISTRICT ENGINEERING MARK LUQUE, 5500 MING AVE., SUITE 2 SUPERINTENDEN BAKERSFIELD, CA 93309 1300 BAKER ST.

TEL: 661-831-7851 BAKERSFIELD, CA 93305 TEL: 559-457-3074 EMAIL: luquem@bcsd.con REDDY PORTER

PORTER & ASSOCIATES 1200 21ST STREET BAKERSFIELD, CA 93301 TEL: 661-327-0362 **DUTCHER &** ASSOCIATES 1750 LAUREL VISTA C PROSPER, TX 75078

TEL: 661-327-0362

dutcherstructural@gmail

WIND EXPOSURE CATEGORY C INTERNAL PRESSURE COEFFICIENT ±0.18 ENCLOSURE CLASSIFICATION ENCLOSED EARTHQUAKE DESIGN DATA (2019 CBC 1603.A.1.5) SITE COORDINATES: 36.60065' N, 119.45581'W RISK CATEGORY II SEISMIC IMPORTANCE FACTOR MAPPED STRUCTURAL RESPONSE ACCELERATION PARAMETERS SITE CLASS D - DEFAULT DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS SDS = 0.457g<u>GEOTECHNICAL INFORMATION (2019 CBC 1603.1.6)</u> 1.ALLOWABLE SOIL BEARING PRESSURE =

RISK CATEGORY II

BUILDING DATA OCCUPANCY = E

TYPE OF CONSTRUCTION = VB (SPRINKLERED) TOTAL BUILDING AREA: BUILDING = 3,600 S.F**OVERHANGS** = 537 S.F PER 2019 TABLE 506.2 ALLOWABLE AREA = 9,500 S.F

4,137 PROPOSED < 9,500 ALLOWABLE = OK

ARCHITECT'S STATEMENT FOR PLANS PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS SHEET INDEX AND CHECKED BELOW HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DOCUMENTS IN THIS TATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR DESIGN INTENT AND HAVE BEEN FOUND O MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE ITEMS CHECKED BELOW ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF HIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE HARGE (OR FOR WHICH I HAVE DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK.) INTERIOR ELEVATION KEY EE THE SHEET INDEX ON THIS SHEET FOR DRAWINGS OTHER THAN ARCHITECTURAL.

HE STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY IGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336. 4-341 AND 4-334 OF TITLE 24. PART 1. (TITLE 24. PART 1. SECTION 4-317 [b]). APPLICABLE: MECHANICAL

■ ELECTRICAL

PLUMBING

STRUCTURAL ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

STATEMENT OF GENERAL CONFORMANCE

THIS DRAWING OR PAGE ☑ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN M HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE OF THE ARCHITECT/ENGINEER

NFPA STANDARDS

APPLICABLE CODES

- 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2018
- ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS). 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2018 IAPMO
- 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC). PART 10. TITLE 24 CCR (201 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS).
- CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS. 2016 NFPA-72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2016 NFPA-80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES
- SYSTEMS, INCLUDING ACCESSORIES 1999 UL-521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING
- 2002 (R2010) UL-1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80. SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020*

2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR.

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR. INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2017 NATIONAL
- 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS).
- 2003 UL-464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING

SCOPE OF WORK

CONSTRUCTION OF NEW WELLNESS CENTER AND ASSOCIATED

INSPECTOR OF RECORD STRUCTURAL THIS PROJECT REQUIRES A CLASS 2 INSPECTOR. THE INSPECTOR OF YPICAL NOTES RECORD SHALL BE DSA APPROVED AND CONFORM TO THE CLASSIFICATION CRITERIA AS PROVIDED IN INTERPRETATION OF YPICAL DETAILS YPICAL DETAILS

YPICAL DETAILS YPICAL DETAILS **OUNDATION PLAN**

SHEET INDEX

GENERAL

SEWER, WATER & STORM DRAIN PLAN

LANDSCAPE

ARCHITECTURAL

TITLE SHEET

GRADING PLAN

ANDSCAPE PLAN

RRIGATION PLAN

SCHEDULES

ITE PLAN

ITE DETAILS

LOOR PLAN

ECTIONS

A7.01

OOF PLAN

LANTING DETAILS

RRIGATION DETAILS

NLARGED SITE PLAN

XTERIOR ELEVATIONS

NTERIOR ELEVATIONS

INTERIOR ELEVATIONS

XTERIOR DETAILS

XTERIOR DETAILS

XTERIOR DETAILS

XTERIOR DETAILS

XTERIOR DETAILS

XTERIOR DETAILS

INTERIOR DETAILS

INTERIOR DETAILS

RAMING DETAILS

REFLECTED CEILING DETAILS

REFLECTED CEILING DETAILS

REFLECTED CEILING PLAN

EILING FRAMING PLAN ROOF FRAMING PLAN **OUNDATION DETAILS**

REGULATIONS (IR) A-7, DATED SEPTEMBER 18, 2007. THE INSPECTOR SHALL BE EMPLOYED BY THE DISTRICT AND APPROVED BY THE RESPONSIBLE ARCHITECT AND DSA. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE

DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

13 SHEET

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC

BAKERSFIELD

CITY SCHOOL

DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

WELLNESS CENTER

APP: 03-122605 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

DR. MARTIN LUTHER KING JR. ELEMENTARY

SCHOOL 1100 CITADEL STREET BAKERSFIELD, CA 93307

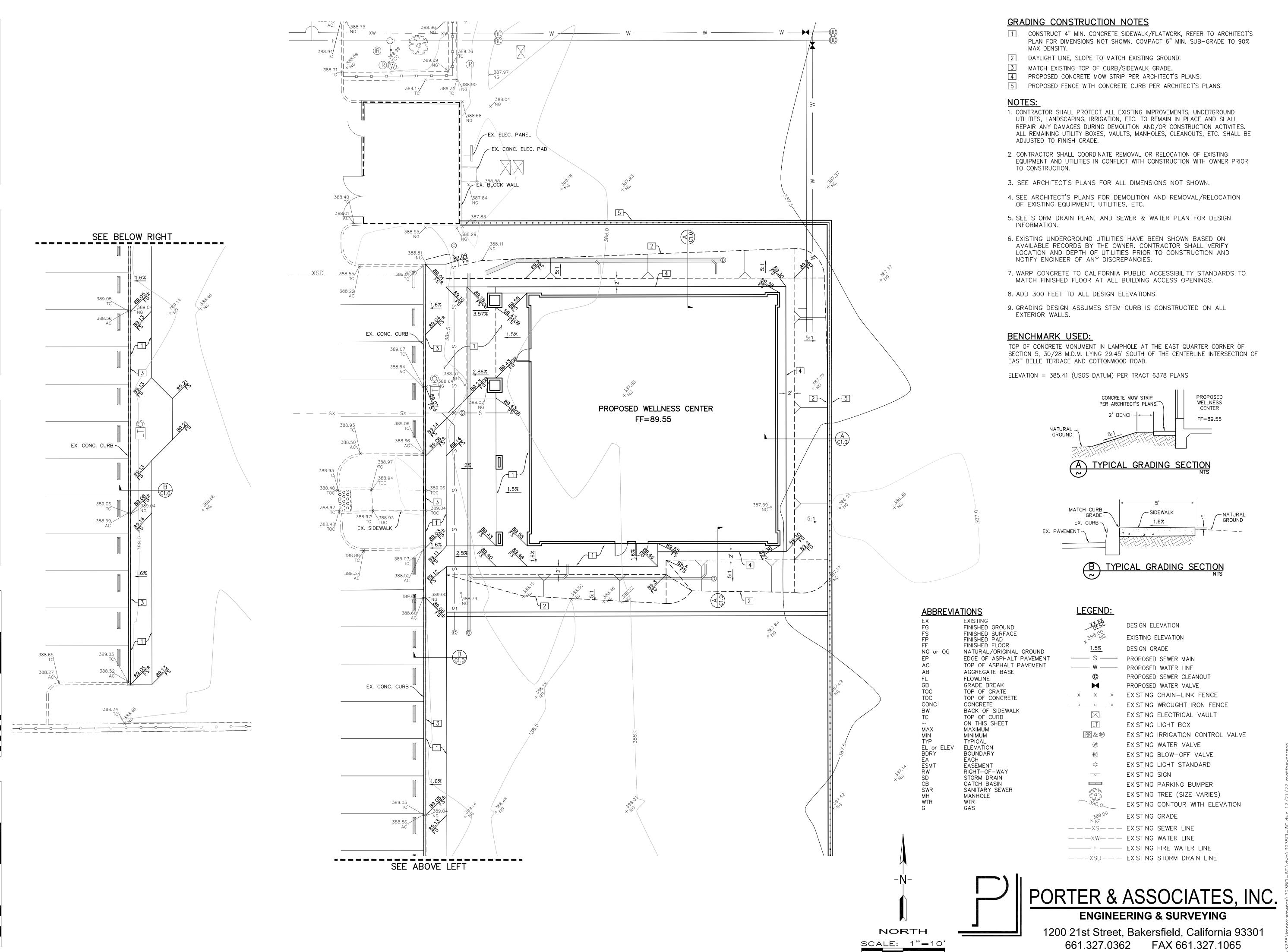
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13 SHEETS



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122605 INC:

REVIEWED FOR SS FLS ACS ACS DATE: 05/11/2023

Own



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

Project Name:

WELLNESS CENTER

ect Address:
WELLNESS

CENTER

1100 CITADEL STREET BAKERSFIELD, CA 93307



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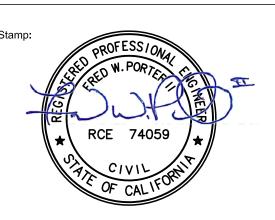
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neet Title:

GRADING PLAN

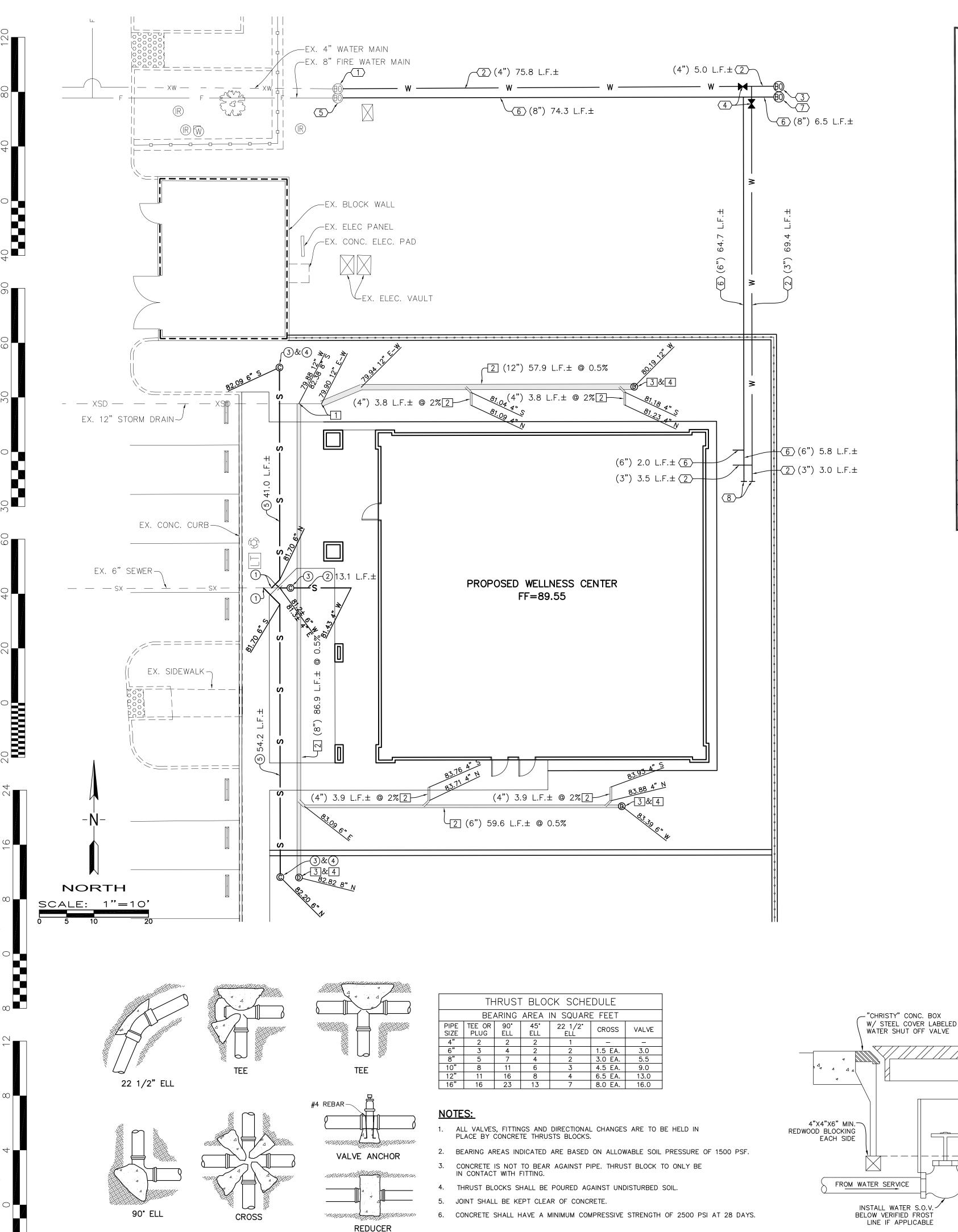
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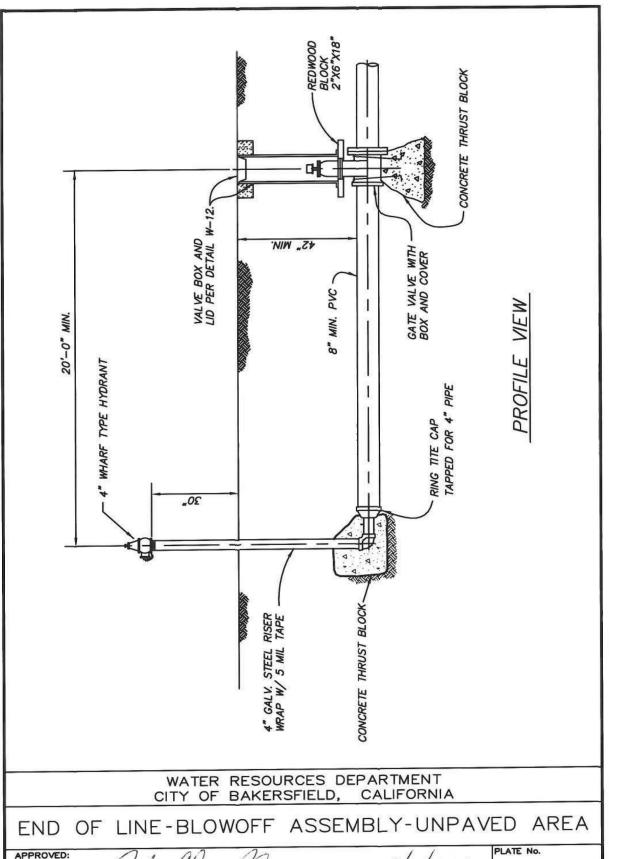
Release:

12/21/22 12/21/22

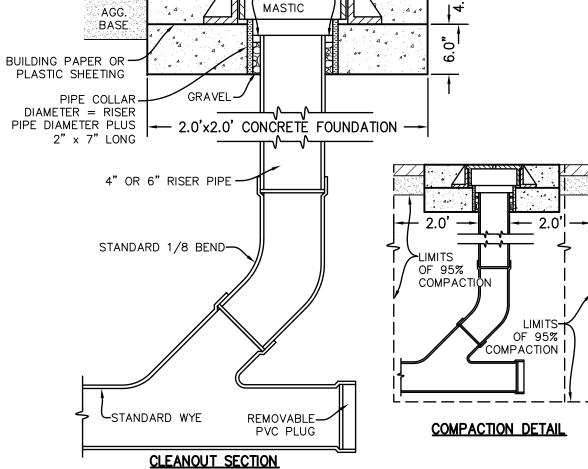
J:\3238\Improvements\3238CI-WC\dwg MATTHEW CARSON



TYPICAL THRUST BLOCK DETAILS



MANAGER - WATER RESOURCES DEPARTMENT DATE -P.C.C. SLAB NOT TO BE POURED UNTIL PAVING IS IN PLACE 2.0'x2.0' P.C.C. MIN. SAWCUT & FINISH-2.0'x2.17' P.C.C. MAX. 1/2" RAD.



CLEANOUT NOTES:

6" THICK CONC. APRON-

IN UNPAVED OR

ASPHALT AREAS

TO BUILDING

∽PLUG (IF VALVE

SOV IN YARDBOX

FOR FUTURE USE)

PROVIDE PVC

BELOW BOX

SCHEDULE 40 PIPE

VALVE OCCURS

EXTENSIONS WHERE

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

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

WATER CONSTRUCTION NOTES

- (1) TIE INTO EXISTING DOMESTIC WATER LINE, SALVAGE AND RELOCATE BLOWOFF ASSEMBLY. CONTRACTOR SHALL VERIFY EXACT LOCATION OF WATER LINE IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
- 2 INSTALL PVC DOMESTIC WATER LINE, SIZE AND DISTANCE SHOWN IN PLAN VIEW.
- (3) STUB FOR FUTURE EXTENSION AND RE-INSTALL END OF LINE BLOWOFF ASSEMBLY PER C.O.B. STD. PLATE W-6.
- 4 INSTALL WATER VALVE PER DETAIL (C1 1) (5) THE INTO EXISTING FIRE WATER MAIN, SALVAGE AND RELOCATE BLOWOFF ASSEMBLY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND SIZE IN FIELD PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER
- (6) INSTALL C900 PVC FIRE WATER LINE, SIZE AND DISTANCE SHOWN IN PLAN VIEW. INSTALL THRUST BLOCK PER DETAIL
- 7 STUB FOR FUTURE EXTENSION AND RE-INSTALL END OF LINE BLOWOFF ASSEMBLY PER C.O.B. STD.
- PLATE W-6. 8 STUB AND PLUG FOR FUTURE CONNECTIONS.

NOTE: 1. INSTALL DETECTABLE WARNING TAPE OVER WATER PIPE PER PROJECT SPECIFICATIONS

SEWER CONSTRUCTION NOTES

- (1) TIE INTO EXISTING 6" SEWER STUB, REMOVE APPROXIMATELY 5 L.F. OF SEWER LINE AND INSTALL WYE. CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH OF EXISTING SEWER IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
- (2) INSTALL 4" PVC SEWER AT MINIMUM 1.0% SLOPE, DISTANCES SHOWN IN PLAN VIEW.
- (3) CONSTRUCT SEWER CLEANOUT PER DETAIL $\frac{B}{C11}$
- (4) STUB AND PLUG FOR FUTURE EXTENSION.
- (5) INSTALL 6" PVC SEWER AT MINIMUM 1% SLOPE, DISTANCE SHOWN IN PLAN VIEW.

STORM DRAIN CONSTRUCTION NOTES

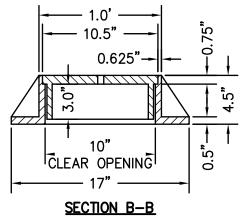
- TIE INTO EXISTING STORM DRAIN. CONTRACTOR SHALL VERIFY EXACT LOCATION OF WATER LINE IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
- INSTALL PVC OR HDPE STORM DRAIN. SIZE, DISTANCE, AND SLOPE IN PLAN VIEW.
- CONSTRUCT STORM DRAIN CLEANOUT PER DETAIL (C1.1). LID SHALL BE MARKED "DRAIN"
- 4 STUB AND PLUG FOR FUTURE CONNECTIONS.
- NOTE: 1. ADD 300' TO ALL DESIGN ELEVATIONS.

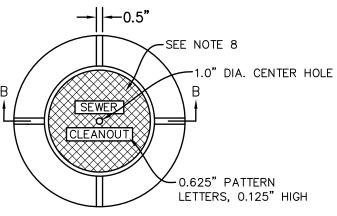
2. LATERAL CONNECTIONS TO MAINS THAT DO NOT OCCUR IN JUNCTION BOXES SHALL BE MADE WITH 45° ELLS OR WYES FOR CLEANOUT PURPOSES.

3. STUB SEWER, WATER, AND STORM DRAIN TO 5' FROM THE BUILDING. BUILDING PLUMBER TO MAKE FINAL CONNECTION TO BUILDING PLUMBING. VERIFY BUILDING POINTS OF CONNECTION WITH BUILDING PLANS.

NOTE TO CONTRACTOR

ALL MANHOLES AND CLEANOUTS WITHIN PROJECT LIMITS, INCLUDING EXISTING MANHOLES, SHALL BE ADJUSTED TO FINISH GRADE IN ACCORDANCE WITH CITY OF BAKERSFIELD STANDARDS. EXISTING MANHOLES MAY REQUIRE REMOVAL OF EXISTING CONE, AND REMOVAL OR "CHANGE OUT" OF BARREL RINGS.





CLEANOUT FRAME & COVER

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

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.

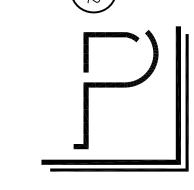
5. CASTING SHALL CONFORM TO THE PROVISIONS OF THE SPECIFICATIONS FOR GRAY-IRON CASTINGS, SERIAL DESIGNATION ASTM: A-48 (LATEST REVISION), CLASS No.

6. THE NAME OF THE MANUFACTURING COMPANY SHALL BE ON THE UNDERSIDE OF THE COVER. 7. ASSEMBLY SHALL BE DESIGNED FOR HIGHWAY LOADING

8. 2.0"x1.0" DIAMOND MAT 0.125" DEEP.

SEWER CLEANOUT DETAIL

OF HS 20-44.



PORTER & ASSOCIATES, INC.

ENGINEERING & SURVEYING

1200 21st Street, Bakersfield, California 93301 661.327.0362 FAX 661.327.1065

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122605 INC: **REVIEWED FOR** SS FLS FLS ACS DATE: 05/11/2023



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

WELLNESS CENTER

WELLNESS CENTER

1100 CITADEL STREET BAKERSFIELD, CA 93307



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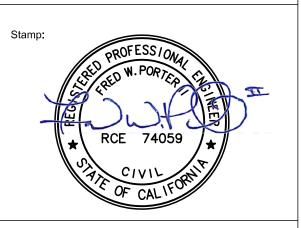
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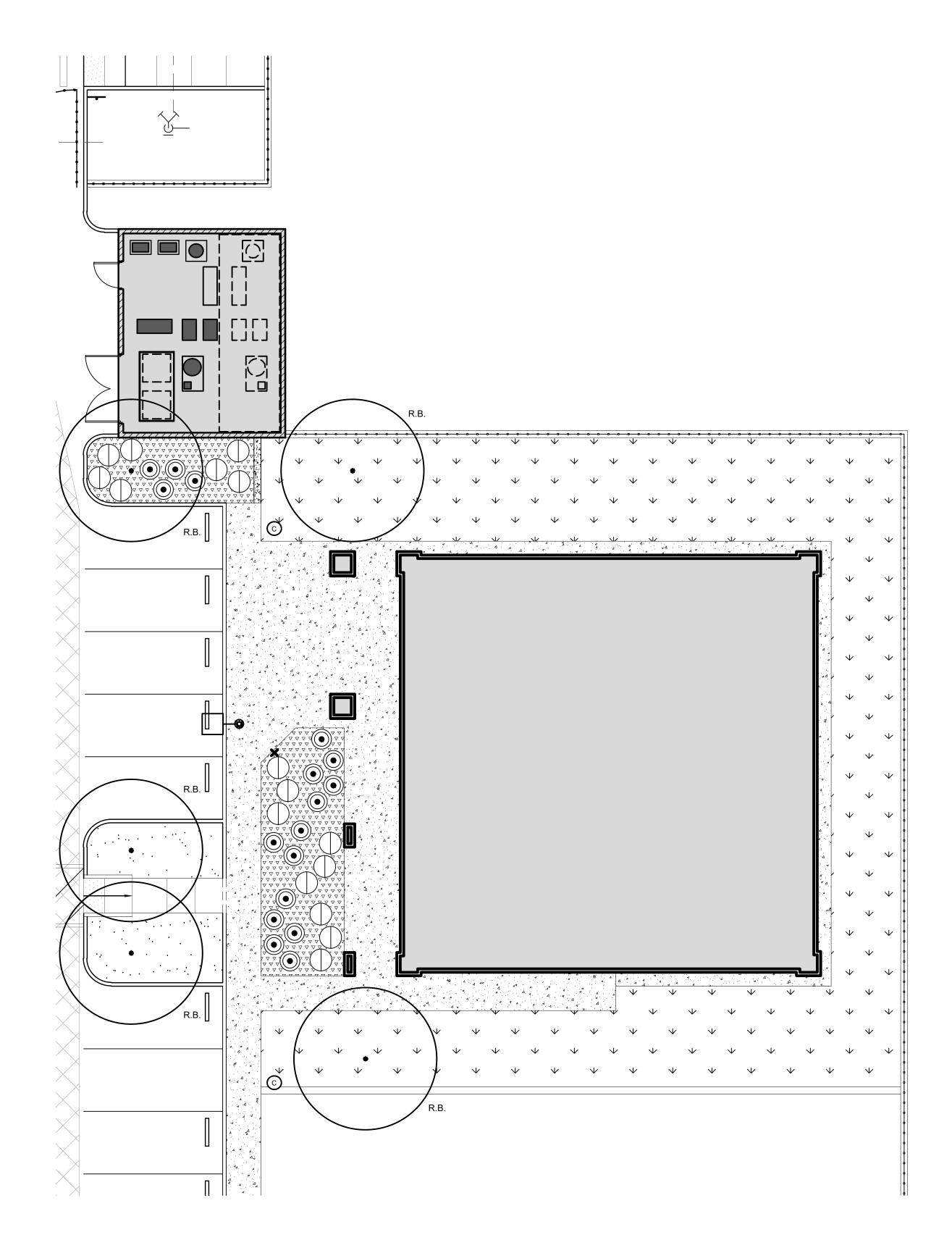


SEWER, WATER & STORM DRAIN **PLAN**

5527

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12/21/22





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PISTACIA CHINENSIS 'KEITH DAVEY'
CHINESE PISTACHE (24" BOX)

R.B. INDICATES ROOT BARRIER INSTALLATION IN THIS LOCATION. REFER TO INSTALLATION DETAIL #02 ON PLAN SHEET L1.03.

PLANTING LEGEND | LANDSCAPE NOTES

SHRUBS:

LOROPETALUM CHINENSE 'JAZZ HANDS' 'CHINESE FRINGE FLOWER' (5 GAL.)

PLUMBAGO AURICULATA 'ROYAL CAPE' CAPE PLUMBAGO (5 GAL.)



3" LAYER OF TAN / GOLD COLOR
DECOMPOSED GRANITE MULCH.
DECOMPOSED GRANITE MULCH TO BE
PLACED UNDER ALL DESIGNATED LANDSCAPE
AREAS AND WHERE SHOWN ON PLAN. REFER
TO INSTALLATION DETAILS #01 AND #03 ON
PLAN SHEET L1.03.



MIX OF 75% BERMUDA & 25% PERENNIAL RYEGRASS (SEED) PER DISTRICT AND SPECIFICATIONS.

.....

SCALE: 1"=10'

12" WIDE CONCRETE MOWSTRIP. REFER TO INSTALLATION DETAIL #04 ON PLAN SHEET I 1 03

IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE IF IT IS OBVIOUS THAT OBSTRUCTIONS OR STRUCTURES, IRRIGATION SYSTEM MALFUNCTION, EXISTING TREES OR OTHER PLANT MATERIAL, GRADE DIFFERENCES, OR CHANGES IN THE SITE PLAN ARE PRESENT THAT WILL IMPACT THE PLANTING DESIGN. FAILURE TO GIVE SUCH NOTIFICATION SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY REVISIONS OR REPLACEMENTS NECESSARY FOR CORRECTION.

2. PLANT QUANTITIES ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON PLAN PRIOR TO BIDDING. THE CONTRACTOR SHALL PROVIDE SUFFICIENT QUANTITIES OF PLANTS EQUAL TO THE SYMBOL COUNT OR TO FILL THE AREAS SHOWN ON THE PLAN AT THE SPECIFIED SPACING LISTED IN THE PLANT LIST.

3. ALL TREE AND SHRUB SPECIMENS ALLOCATED FOR INSTALLATION SHALL BE OF 'CLASS A' QUALITY, FREE OF PESTS, DISEASE, AND / OR DAMAGE, AND SHALL BE WELL ESTABLISHED IN THEIR CONTAINERS WITHOUT ANY GIRDLING ROOTS OR EXCESSIVE TOP GROWTH. ALL PLANT MATERIAL INTENDED FOR INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1).

I. THE CONTRACTOR SHALL PRUNE NEW TREES ONLY WHEN SPECIFICALLY DIRECTED BY THE ARCHITECT. TREES SHALL BE REJECTED WITHOUT ADEQUATE BRANCH STRUCTURE, IN POOR HEALTH, OR IN ROOT-BOUND CONTAINERS.

NOTIFY THE ARCHITECT PRIOR TO THE INSTALLATION OF IRRIGATION COMPONENTS AND LANDSCAPE PLANTING FOR APPROVAL OF LAYOUT AND PLANT SPECIMEN QUALITY. PLANT LOCATIONS SHALL BE ADJUSTED PER THE ARCHITECT'S DIRECTION TO AVOID CONFLICTS WITH EXISTING IMPROVEMENTS, EXISTING PLANT MATERIAL, UTILITIES, LIGHT POLES, OR TO MEET THE DESIGN INTENT. DO NOT PLANT TREES WITHIN 15 FEET OF LIGHT POLES UNLESS SPECIFICALLY AUTHORIZED. FAILURE TO OBTAIN SUCH APPROVAL SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY RELOCATION OR REPLACEMENT OF IRRIGATION COMPONENTS AND / OR NEW PLANT MATERIAL.

 INSTALLATION OF ALL TREES AND SHRUBS SHALL BE SPACED AND INSTALLED IN ACCORDANCE WITH COMMON NURSERY LANDSCAPE STANDARDS.

7. ALL TREES LOCATED WITHIN 10 FEET OF PAVEMENT OR STRUCTURES SHALL HAVE A ROOT CONTROL BARRIER INSTALLED WHEN PLANTED. UNLESS OTHERWISE SPECIFIED, INSTALL A 16 FOOT LONG x 24 INCH DEEP LINEAR POLYETHYLENE BARRIER AT THE EDGE OF PAVEMENT / STRUCTURES, CENTERED ON THE TREE TRUNK.

8. AFTER TREE STAKING OR GUYING IS COMPLETED, REMOVE NURSERY STAKES FROM TREES.

9. INSTALL PERFORATED POLYETHYLENE TREE TRUNK PROTECTORS FOR ALL NEW TREES PLANTED IN TURF AREAS. UNLESS NOTED OTHERWISE, MAINTAIN A MINIMUM FOUR FOOT (4') DIAMETER MULCHED AREA AT THE BASE OF THE TREE INSIDE THE WATERING BASIN.

D. PRIOR TO SOIL CONDITIONING, RIP IN FOUR DIFFERENT DIRECTIONS WITH TINES AT 12 INCH SPACING, ALL TURF AREAS TO A 12 INCH DEPTH, AND SHRUB AREAS TO A 18 INCH DEPTH. ROUGH GRADE AND TILL THE APPROVED SOIL CONDITIONERS AND FERTILIZERS INTO THE TOP 6 INCHES (6")

11. UPON THE COMPLETION OF THE SOIL CONDITIONING, REMOVE ROCKS AND CLODS ONE INCH (1") DIAMETER AND GREATER FROM THE TOP TWO INCHES (2") OF TOPSOIL, AND ALL DEBRIS. FINISH GRADE THE AREA TO +/- 0.05 FOOT TOLERANCE. RELATIVE DENSITY OF THE TOPSOIL SHALL NOT EXCEED 85% COMPACTION.

2. OBTAIN THE APPROVAL OF THE OWNER'S REPRESENTATIVE TO BEGIN PLANTING OPERATIONS ONCE THE IRRIGATION SYSTEM IS PRESSURE TESTED AND OPERATIONAL, AND THE SOIL CONDITIONING AND FINISH GRADING IS COMPLETED.

INSTALL A THREE INCH (3") DEPTH OF THE SPECIFIED DECOMPOSED GRANITE MULCH IN ALL PLANTING AREAS EXCEPT FOR TURF AREAS, SLOPES 3H:1V OR GREATER, AREAS TO RECEIVE SEED PLANTING, OR AS NOTED ON THE DI AN

4. CONTRACTOR SHALL SUSTAIN NEW PLANTING FOR HEALTHY AND VIGOROUS GROWTH, WHICH INCLUDES BUT IS NOT LIMITED TO WATERING, WEEDING, FERTILIZING, MOWING AND EDGING (AT LEAST ONCE A WEEK), REMOVING TRASH AND DEBRIS, AND OTHER RELATED ACTIVITIES THROUGHOUT THE DURATION OF THE MAINTENANCE PERIOD UNTIL FINAL ACCEPTANCE BY OWNER.

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DIV. OF THE STATE ARCHITECT
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DATE: 05/11/2023

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BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

oject Name:

WELLNESS CENTER

WELLNESS
CENTER

1100 CITADEL STREET BAKERSFIELD, CA 93307



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Sheet Title:

LANDSCAPE PLAN

5527

Sheet No.:

L1.01

Reference Evapotranspi	ration (ETo)		51.1					
Hydrozone #/ Planting Description ^a	Plant Factor (PF)	Irrigation Method ^b	Irrigation Efficiency (IE)°	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU)°	
Regular Landscape Areas								
A-1 / Low Use Trees	0.3	Bubbler	0.75	0.400	24.00	9.60	304	
A-2 / Low Use Shrubs	0.3	Bubbler	0.75	0.400	221.00	88.40	2,801	
A-3 / Turf	0.7	Spray	0.75	0.933	430.00	401.33	12,715	
A-4 / Turf	0.7	Spray	0.75	0.933	430.00	401.33	12,715	
A-5 / Turf	0.7	Spray	0.75	0.933	430.00	401.33	12,715	
A-6 / Turf	0.7	Spray	0.75	0.933	296.00	276.27	8,753	
4-7 / Turf	0.7	Spray	0.75	0.933	423.00	394.80	12,508	
A-8 / Low Use Trees	0.3	Bubbler	0.75	0.400	24.00	9.60	304	
A-9 / Low Use Shrubs	0.3	Bubbler	0.75	0.400	415.00	166.00	5,259	
A-10 / Turf	0.7	Spray	0.75	0.933	546.00	509.60	16,145	
A-11 / Low Use Trees	0.3	Bubbler	0.75	0.400	12.00	4.80	152	
A-12 / Turf	0.7	Spray	0.75	0.933	546.00	509.60	16,145	
				Totals	3,797	3,172.67	100,516	
Special Landscape Area	S			•				
				Totals	3,797	3,172.67		
ETWU Total						100,516		
Maximum Allowed Water Allowance (MAWA)®					108,292			

Imigation Efficiency

0.75 for spray

dETWU (Annual Gallons Required) =

Eto x 0.62 x ETAF x Area

3.) moderate water use trees or drip 0.81 for drip where 0.62 is a conversion factor that acre-inches per acre per year to gallons per square foot per year.

**MAWA (Annual Gallons Allowed) = (Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]

where 0.62 is a conversion factor that acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 or residential areas and 0.45 for non-residential areas.

overhead spray

noderate water use shrubs

IRRIGATION LEGEND

SYMBOL DESCRIPTION Toro #570Z-4PS-COM-10-SBH-PC3, 4" pop-up sprinkler with flow regulating stem, check valve and Stream Bubbler Nozzle (½" inlet: 0.5 gpm @ 30 psi). Install on uphill side of plant or tree. Refer to Installation Detail #11 on Plan Sheet L1.04.

Rainbird #RWS-B-C-1401 with #1401 (0.5 gpm) bubbler Root Watering System. Install on uphill side of plant or tree. Refer to Installation Detail #10 on Plan Sheet L1.04.

Rainbird #1804-SAM-PRS, 4" pop up sprinkler with 12' radius Hunter MP 1000 Rotator nozzles, O-12QP, O-12HP and O-12FP patterns, quarter, half and full arcs. (½" inlet: 0.17/.34/.69 gpm @ 30 psi). Contractor is to adjust arc and radius to prevent overspray onto buildings and other hardscaped surfaces. If nozzle radius adjustment required is greater than 25% of nozzle rating, the contractor is to substitute nozzle with 8', 10', or specialty pattern nozzle as required at no additional cost to Owner. Contractor is to review nozzle substitutions with Landscape Architect for comment, prior to installation. See Installation Detail #12 on Plan Sheet L1.04.

Install (1) New 1" Irritrol #100P1-S-OMR-100, 100 Series Electric Remote Control Valve with pressure regulating module. Install one valve per standard rectangular valve box. Mainline schedule 80 nipple entering the valve is to be the same size as the lateral exiting the valve. Install line size filter on bubbler valves. Filter is to be installed on discharge side of valve. Refer to Installation Detail #07 on Plan Sheet L1.04. Wire to available terminal in controller.

A-1 Controller # / Station # Gallons per minute

Rainbird 44LRC, quick coupling valve with locking rubber cover. Provide Maintenance Personnel with three (3) quick coupler keys with hose swivels. Install in separate 10" round valve box. Refer to Installation Detail #04 on Plan Sheet I 1 04

1" thru 3": NIBCO # T-113 IRR Isolation Gate Valve. Gate Valves are to be line size as noted on the plan. Provide two (2) operating handles (3' min. length) for each type required to the District. See Installation Detail #03 on Plan Sheet L1.04.

- POINT OF CONNECTION, TAP INTO

EXISTING WATER MAIN. VERIFY LOCATION

IN FIELD. LANDSCAPE CONTRACTOR SHALL

SYMBOL DESCRIPTION

SHOWN

120V POWER & NETWORK DATA

ELECTRICAL DRAWINGS. LANDSCAPE

CABLE (CAT-6) TO IRRIGATION

CONTRACTOR SHALL MAKE ALL

CONTROLLER, REFER TO

2" THRU 3": PVC SCHEDULE 40 SOLVENT WELD MAINLINE PIPE.
Size mainline piping as noted on the plan. Install all pipe in strict accordance with manufacturers instructions with concrete thrust blocks at all changes in direction.
No bending, or curving of pipe will be allowed, except as permitted by the pipe manufacturer. Pipe manufacturer must be approved prior to ordering materials. Use mechanical joint restraints where concrete thrust blocks are not applicable, such as vertical changes in direction, or when two pipelines are side by side. Sleeve all pipe under paved surfaces per Sleeving Detail. All mainline fittings that are three inch (3"), or smaller are to be Lasco Schedule 80 Solvent Weld fittings, or approved equal. See manufacturers installation instructions. See Installation Details #02, #05 & #09 on Plan Sheet L1.04.

LATERAL PIPE SIZING CHART

NOT USED

- 12 GPM

13 - 30 GPM

31 - 46 GPM

THE CONTRACTOR SHALL SIZE ALL LATERAL LINE PIPES TO

CORRESPOND WITH THE GALLONS PER MINUTE OF FLOW SHOWN

IN THE PIPE SIZE CHART. SUBMIT SHOP DRAWINGS FOR REVIEW

1. ALL SLEEVING SHOWN SHALL BE INSTALLED PER DETAIL 5/L1.04

MINIMUM SIZE AS INDICATED IN IRRIGATION SLEEVE LEGEND.

SLEEVING SHALL RUN BENEATH THE HARDSCAPE BETWEEN

LANDSCAPE AREAS AT TERMINAL ENDS OF LINES INDICATED.

4. SLEEVING SHALL BE INSTALLED 12"-18" FROM ADJACENT

NOT USED

NOT USED

PRIOR TO INSTALLING IRRIGATION SYSTEM.

(1) 6" PVC MAINLINE SLEEVE,

(1) 2" PVC WIRE SLEEVE

(1) 3" PVC LATERAL SLEEVE

IRRIGATION SLEEVE LEGEND

2. LOCATIONS ARE DIAGRAMMATIC.

PARALLEL HARDSCAPE.

KEY DESCRIPTION

ALLOWABLE RANGE GALLONS PER MINUT

PIPE SIZE

2½"

1" thru 2": PVC Class 200 Solvent Weld lateral pipe. Sleeve all pipe under paved surfaces over eight feet wide with PVC Class 200 pipe a minimum of two times larger than the pipe being sleeved. One pipe per sleeve only. Minimum sleeve size is 2". Wires are to be sleeved separately from pipe. Size lateral piping as noted on the lateral pipe sizing chart below. Pipe sizing is not to exceed 4.0 feet per second flow velocity. Install all pipe in strict accordance with manufacturers instructions, using appropriate cement and primer for the various pipe sizes and prevailing site conditions. (Note: 1/2", 3/4" & 1 1/4" pipes are not allowed to be used on the project.) Refer to Installation Detail #09 on Plan Sheet L1.04.

Calsense CS3000, 16 station wall mounted Controller. Make all connections to controller terminals from remote control valve control wires. Refer to Installation Detail #01 on Plan Sheet L1.04.

Provide one (1) Irritrol R-100-Kit and CL-R1 remote radio for remote access to the Irritrol MC-E controller, up to 8 stations with all appurtenances for connections to the specified controller to the District. Contractor to provide training in the operation of the system to designated District Maintenance Staff prior to project close-out.

PVC Irrigation Sleeve. Install per Sleeve Legend and related notes. Refer to Installation Detail #05 on Plan Sheet L1.04.

3" SCH. 40 PVC Irrigation Mainline. Route mainline through planting areas where possible.

IRRIGATION NOTES

- IF EXISTING IRRIGATION SYSTEMS ARE TO BE USED AND EXPANDED TO HANDLE ADDITIONAL COVERAGE OF NEW PLANTING, THE CONTRACTOR SHALL BE RESPONSIBLE TO UPSIZE ANY PART OF THAT SYSTEM TO COMPENSATE FOR THE IRRIGATION EXPANSION.
- THE ARCHITECT RESERVES THE RIGHT TO REJECT ANY MATERIAL OR WORK WHICH DOES NOT CONFORM TO THE CONTRACT PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT
- 3. CONFIRM OPERATIONAL STATUS OF EXISTING METER AND WATER SERVICE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO VERIFY THE AVAILABLE STATIC PRESSURE AT THE POINT-OF-CONNECTION. NOTIFY THE OWNER'S REPRESENTATIVE BEFORE STARTING WORK OF ANY DEVIATION FROM THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS
- THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING UTILITIES. UTILITIES SHOWN ARE FOR THE CONTRACTOR'S AWARENESS AND NO SURVEY HAS BEEN COMPLETE TO VERIFY THE ACCURACY OF THE UTILITIES SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR ANY DAMAGED UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES
- THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS SHOWN, AND TO ADJUST SAID DIMENSIONS TO FIT, SITE CONDITIONS AND ACTUAL EQUIPMENT INSTALLED
- ALL OFFSETS, FITTINGS, ETC. SHALL BE IN ACCORDANCE WITH CURRENT MWELO REQUIREMENTS. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING HIS WORK. HE SHALL PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO INSTALL THE PROPOSED FACILITIES AND ACCOMMODATE THE SITE CONDITIONS. DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE DONE TO PROVIDE A COMPLETE AND OPERATIONAL IRRIGATION SYSTEM. ALL WORK TO BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, LOCAL CODES, AND ORDINANCES ACCORDINGLY.
- 7. IRRIGATION VALVES AND VALVE BOXES SHALL BE LOCATED IN SHRUB / GROUNDCOVER AREAS INSTEAD OF IN TURF GRASS AREAS WHENEVER POSSIBLE
- INSTALL SLEEVES UNDER ALL ASPHALT, CONCRETE, OR OTHER HARDSCAPE IMPROVEMENTS. SLEEVES SHALL BE PVC SCH. 40 PVC OR SDR 35 AND TWICE THE DIAMETER OF THE PIPE UNLESS NOTED OTHERWISE. CONTROL WIRING SHALL BE SLEEVED IN TWO INCH (2") SCH 40 PVC UNLESS NOTED OTHERWISE. MINIMUM DEPTH OF SLEEVES UNDER ALL HARDSCAPE IMPROVEMENTS IS TO BE 18" BELOW SUBGRADE
- 9. CONTRACTOR SHALL SAWCUT ASPHALT OR CONCRETE TO EXISTING JOINTS. REMOVE AND REPLACE SURFACING (CONCRETE, ASPHALT) AS NECESSARY TO INSTALL THE IRRIGATION SYSTEM
- 10. THE CONTRACTOR SHALL PROVIDE AND KEEP AN UP-TO-DATE "RECORD DRAWING" SHOWING ALL CHANGES TO THE ORIGINAL DRAWINGS AND EXACT LOCATIONS OF THE FACILITIES INSTALLED. BEFORE FINAL INSPECTION, THE CONTRACTOR SHALL FURNISH MARKED "RECORD DRAWINGS" TO THE INSPECTOR
- 11. THE CONTRACTOR SHALL PROVIDE ADJUSTMENT TO SPRAY HEAD NOZZLE ARC AND RADIUS, INCLUDING ANY ALTERNATE NOZZLE TYPES, NECESSARY TO PROVIDE COMPLETE COVERAGE, TO SUIT ACTUAL SITE CONDITIONS. CONTRACTOR TO MINIMIZE OVERSPRAY ONTO HARDSCAPE, PAVEMENT AND / OR STRUCTURES ACCORDING TO INDUSTRY INSTALLATION STANDARDS AND CURRENT MWELO REQUIREMENTS.
- 12. ALL TRENCHING FOR MAINLINE, LATERAL LINES, AND CONTROL WIRES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES.
- 13. CONCRETE THRUST BLOCKS SHALL BE PROVIDED ON ALL MAINLINE PIPING. THEY ARE TO BE LOCATED AT ALL ABRUPT CHANGES IN PIPELINE GRADE, CHANGES IN HORIZONTAL ALIGNMENT, REDUCTION IN PIPE SIZES, END OF LINE AND IN-LINE VALVES TO ABSORB ANY AXIAL THRUST OF THE PIPE. THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR THRUST CONTROL SHALL BE INSTALLED ACCORDINGLY. CONCRETE THRUST BLOCKS MUST BE FORMED AGAINST UNDISTURBED EARTH
- 4. ALL MAINLINE AND LATERAL LINE PIPES UNDER PAVEMENT SHALL BE PRESSURE TESTED WITH ALL VALVES INSTALLED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NEEDED. IF ANY LEAKS DEVELOP, REPAIRS ARE TO BE MADE AND THE TEST REPEATED UNTIL THE SYSTEM IS PROVEN WATERTIGHT. THE CONTRACTOR IS TO CENTER LOAD THE PIPE AND LEAVE ALL JOINTS EXPOSED FOR INSPECTION. THE PRESSURE TEST SHALL BE OBSERVED AND APPROVED BY THE OWNER'S REPRESENTATIVE. WHEN THE PIPE IS PROVEN WATERTIGHT, AND ONLY THEN, MAY THE LINE BE BACKFILLED.
- 15. WIRED CONNECTIONS BETWEEN THE CONTROLLER AND REMOTE CONTROL VALVES SHALL BE MADE WITH ONE CONTINUOUS DIRECT BURIAL WIRE RUN FOR WIRE CONNECTOR METHODS ALLOWABLE. A VALVE BOX MUST BE PROVIDED AT THE CONTRACTOR'S EXPENSE AT ALL UNDERGROUND SPLICES.
- 16. ONLY TEFLON TAPE, OR AN APPROVED TEFLON PASTE, MAY BE USED AS THE SEALING MATERIAL TO MAKE ALL THREADED CONNECTIONS. A MINIMUM OF TWO (2) WRAPS IN THE DIRECTION OF THE THREADS TO BE USED FOR TAPE
- 17. THE CONTRACTOR SHALL PROVIDE TWO (2) INDIVIDUALLY BOUND SETS OF OPERATION AND MAINTENANCE MANUALS. THE MANUAL SHALL CONTAIN THE
- FOLLOWING INFORMATION:

 A. CONTRACTOR'S ADDRESS AND PHONE NUMBER.

AND AT THE VALVE.

- B. DURATION OF GUARANTEE PERIOD (ONE YEAR AFTER FINAL ACCEPTANCE).
 C. NAMES, ADDRESSES AND PHONE NUMBERS OF LOCAL MANUFACTURER REPRESENTATIVES.
- D. COMPLETE SET OF MANUFACTURER'S LITERATURE AND SPECIFICATIONS.

 COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL MAJOR
- E. COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL MAJOR EQUIPMENT.
 F. ISSUE A "CERTIFICATE OF CONSTRUCTION COMPLIANCE" WHICH STATES THAT
- WITH THE APPROVED PLANS, SPECIFICATIONS AND ALL AUTHORIZED REVISIONS

 G. INITIAL ELECTRICAL DATA ON EACH VALVE:

 (1) OHMMS READING FOR EACH VALVE TAKEN AT THE CONTROLLER.

 (2) VOLTAGE READING FOR EACH VALVE TAKEN BOTH AT THE CONTROLLER

ALL WORK DONE AND MATERIALS AND EQUIPMENT USED ARE IN CONFORMANCE

- 8. THE CONTRACTOR SHALL PROVIDE TWO (2) SETS OF CONTROLLER CHARTS. THE CHARTS ARE TO BE A REDUCED DRAWING OF THE ACTUAL PLANS COLOR CODED WITH DIFFERENT COLORS FOR EACH IRRIGATION CIRCUIT. THE CHARTS SHALL BE COVERED IN A WATERTIGHT ENVELOPE
- IRRIGATION TRENCHING AND PIPE INSTALLATION, LOCATED WITHIN EXISTING TREE CANOPIES TO REMAIN, SHALL BE PERFORMED BY HAND OR BY AIR SPADE WITHOUT CUTTING OR DAMAGING EXISTING ROOTS GREATER THAN ONE INCH (1") IN DIAMETER

LANDSCAPE IRRIGATION COMPLIANCE:

THE LANDSCAPE IRRIGATION PLAN SHALL COMPLY WITH THE CALIFORNIA DEPARTMENT OF WATER RESOURCES MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) COMMENCING WITH SECTION 490 OF CHAPTER 2.7, DIVISION 2, TITLE 23, CALIFORNIA CODE OF REGULATIONS, EXCEPT THAT THE EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) SHALL BE 0.65 WITH AN ADDITIONAL WATER ALLOWANCE FOR SPECIAL LANDSCAPE AREAS (SLA) OF 0.35 IN ACCORDANCE WITH THE 2019 CAL GREEN BUILDING STANDARDS CODE PARAGRAPH 5.304.6.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122605 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 05/11/2023

Owner:



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

Project Name:

WELLNESS CENTER

WELLNESS CENTER

1100 CITADEL STREET BAKERSFIELD, CA 93307



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ARCHITECTURE ENGINEERING INTERIOR DESIGN

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Sheet Title:

IRRIGATION PLAN

5527

Sheet No.:

L1.02



3.1

3.2

SCALE: 1" = 10'

TREE ROOT BARRIER

KEY NOTES (A) TREE TIES TO BE APPROVED RUBBER OR PLASTIC STRAPS NAILED TO STAKES.

(B) TREATED 2"x10" LODGE POLE STAKE TO BE SET VERTICAL. © TOP OF ROOT BALL IS TO BE SET SLIGHTLY ABOVE FINISH

D CONSTRUCT WATER BASIN TO THE DIAMETER NOTED BELOW WITH 3" BERM AROUND PERIMETER. SOFTEN BERM IN TURF AREAS. REMOVE ALL TURF WITHIN BERM AREA IN TURF AREAS.

BERM DIAMETER SIZE OF PLANT

(E) EXPANDABLE STRING TRIMMER TREE BOOT. USE ON TREES INSTALLED IN TURF AREAS ONLY. (F) AGRIFORM PLANT FERTILIZER TABLETS.

(G) DECOMPOSED GRANITE MULCH. INSTALL TO A COMPACTED DEPTH OF THREE INCHES (3"). DO NOT ENGULF THE STEMS OR TRUNKS OF SHRUBS AND TREES. REFER TO PLANTING PLAN LEGEND, SHEET L1.01.

PLANTING NOTES

- CONTRACTOR IS TO DRILL ONE 18" DIAMETER DRAINAGE HOLE PER TREE OR 15 GALLON SIZE PLANT, A MINIMUM OF TEN FEET (10'-0") DEEP OR UNTIL THE HARD PAN LAYER IS PIERCED. MIX EXCAVATED SOIL WITH GYPSUM AND HUMUS AND BACKFILL HOLE. DRAINAGE HOLE IS TO BE OFF SET FROM THE PLANTING HOLE TO PREVENT SETTLEMENT OF THE TREE OR SHRUB.
- 2. PLANTING HOLE TO BE TWICE THE DIAMETER OF CONTAINER WITH DEPTH EQUAL TO ROOT BALL, PLUS FOUR INCHES. BACKFILL WITH 85% CLEAN NATIVE SOIL MIXED W/ 15% NITROLIZED FOREST HUMUS. ADD PLANT FERTILIZER TABS TO BACKFILL AS FOLLOWS:

SIZE OF PLANT # TABS
1 GALLON SIZE 2
5 GALLON SIZE 4 15 GALLON SIZE

- 3. PLACE TREE OR SHRUB IN CENTER OF PLANTING HOLE.
- 4. TAMP BACKFILL TO FORCE OUT ALL AIR POCKETS. FOOT TAMP BACKFILL BELOW ROOT BALL TO PREVENT SETTLEMENT.
- 5. WATER TREE OR SHRUB IMMEDIATELY AFTER PLANTING.
- 6. DOUBLE STAKE, WITH ONE STAKE TO BE PLACED ON THE WINDWARD SIDE AND THE OTHER PLACED ON THE LEEWARD SIDE OF THE TYPICAL PREVAILING WIND. TOP OF STAKE IS TO BE SIX INCHES BELOW THE

BRANCHING POINT OF THE CROWN.

DISTRICT 1300 BAKER STREET BAKERSFIELD, CA 93305

WELLNESS CENTER

BAKERSFIELD

CITY SCHOOL

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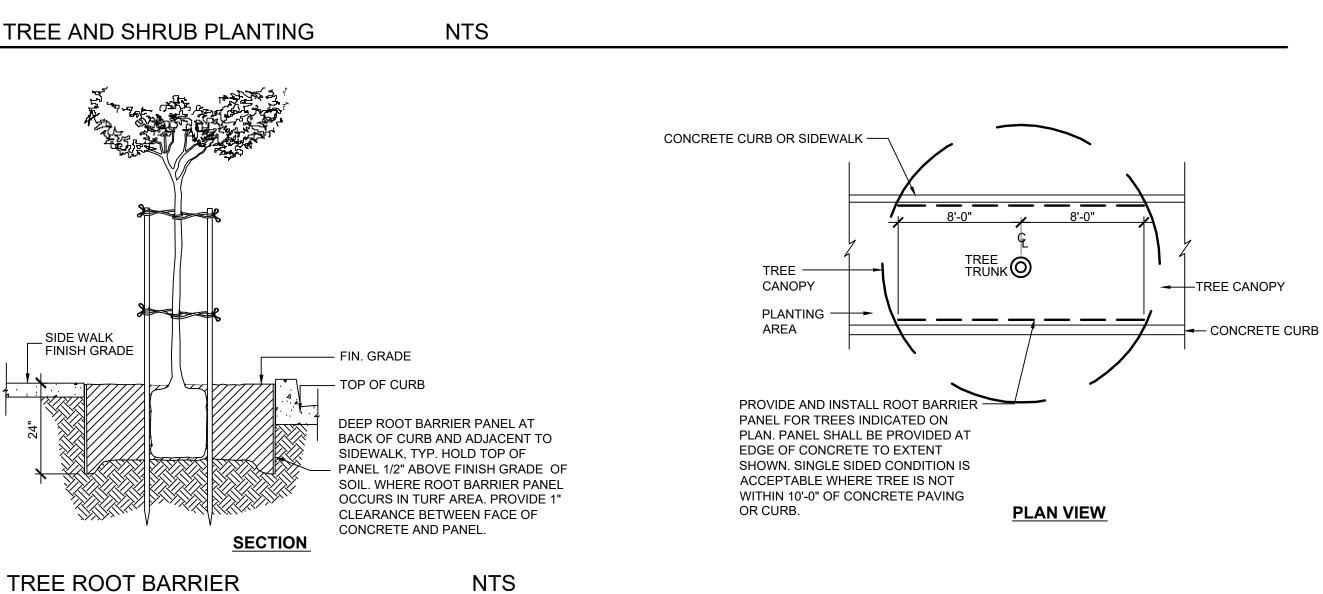
Sheet Title:

PLANTING DETAILS

5527

L1.03

NTS



AS SPECIFIED ON PLANTING - PLAN LEGEND

- (1) CONTRACTOR IS TO PREPARE THE SUB-GRADE FOR THE DECOMPOSED GRANITE MULCH WITH AN APPLICATION OF AN APPROVED, LONG LASTING, GRANULAR PRE-EMERGENT JUST PRIOR TO THE PLACEMENT OF THE DECOMPOSED GRANITE MULCH AT LABEL RATES. CONTRACTOR IS TO REAPPLY (SURFACE BROADCAST) A SECOND APPLICATION AT THE END OF THE SPECIFIED MAINTENANCE PERIOD. TWO (2) APPLICATIONS REQUIRED FOR BID.
- 2 DECOMPOSED GRANITE MULCH, REFER TO PLANTING PLAN LEGEND, SHEET L1.01.
- (3) 85% COMPACTED AND APPROVED SUBGRADE. GRADE FOR PROPER DRAINAGE.
- (4) CONCRETE MOW STRIP OR OTHER HARDSCAPE SURFACE.

DECOMPOSED GRANITE MULCH

NTS

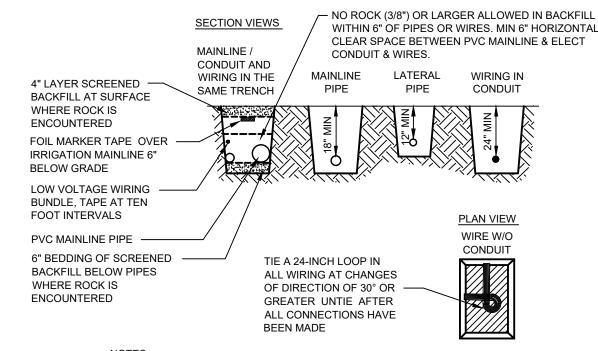
2" FIN. GRADE PLANTING AREA CONCRETE MOWSTRIP W / CONTROL JOINT AT 10' O.C. & EXPANSION JOINT AT 30' O.C. — COMPACT SUBGRADE TO 90% RELATIVE DENSITY

CONCRTE MOWSTRIP

Release: DSA BACKCHECK G:\2022frs\22-5527 MLK WELLNESS CENTER\Sheets SEAN PARKER

WIRE CONNECTORS

NTS

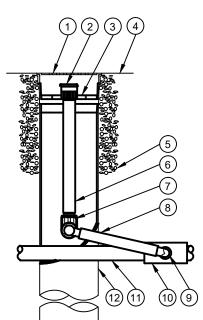


1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN, MIN SLEEVE SIZE IS 2". 2. INSTALL ALL PIPE AND WIRE IN STRICT CONFORMANCE WITH MANUFACTURERS

INSTRUCTIONS AND RECOMMENDATIONS NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

TRENCHING DETAIL

NTS

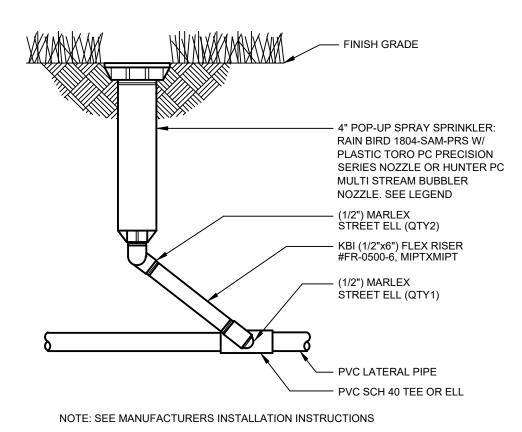


(1) 4-INCH GRATE 2) BUBBLER: RAIN BIRD 1402 - 0.5 GPM (3) ROOT WATERING SYSTEM: RAIN BIRD RWS-B-C-1402 (INCLUDES 1402 0.5 GPM BUBBLER WITH RISER, GRATE, SWING ASSEMBLY, 1/2" MALE NPT INLET, AND BASKET CANISTER)) FINISH GRADE 5) PEA GRAVEL - 1.0 CU. FT. 6) 1/2-INCH PVC SCH 80 NIPPLE 7) 1/2-INCH 90-DEGREE ELBOW 12-INCH SWING ASSEMBLY) 1/2-INCH MALE NPT INLET 10) PVC SCH 40 TEE OR EL (11) LATERAL PIPE

(12) 4-INCH BASKET WEAVE CANISTER

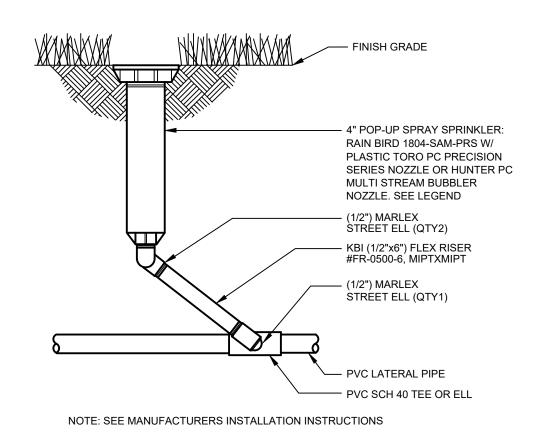
NOTE: INSTALL ROOT WATERING SYSTEM WITH BUBBLER INSIDE THE TREE WATERING BASIN AND INSIDE THE TREE ROOT BARRIER ON THE UPHILL SIDE OF TREE. IF FINISH GRADE IS SLOPED, INSTALL RWS-90CK IN SANDY

ROOT WATERING TREE BUBBLER



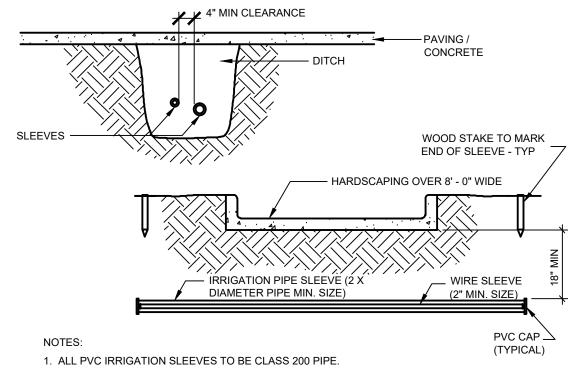
4" POP-UP SPRAY BUBBLER

NTS



4" POP-UP SPRAY SPRINKLER

NTS



2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT

3. IRRIGATION PIPES AND LOW VOLTAGE WIRES ARE TO BE SLEEVED SEPARATELY. 4. ALL PIPES & WIRES ARE TO BE SLEEVED UNDER PAVED / CONC. 8'-0" WIDE OR WIDER. MECHANICALLY COMPACT TO 95% PROCTOR.

NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

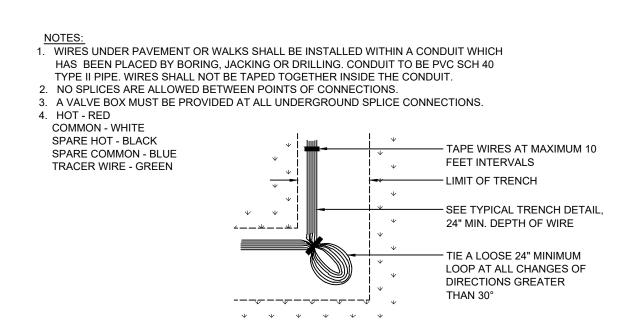
SLEEVING DETAIL

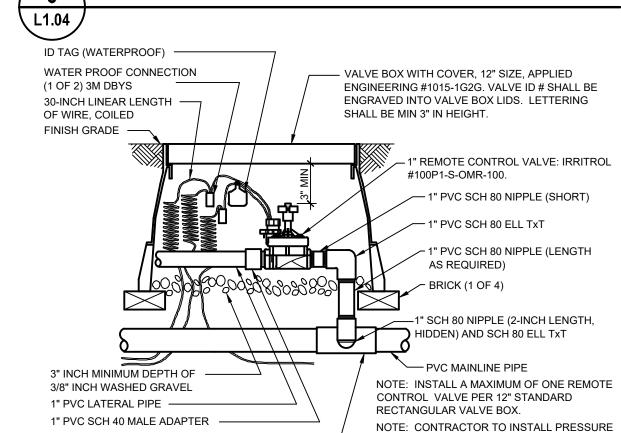
IRRIGATION WIRE

NTS

SEPARATE ADJACENT VALVE BOX. SEE DETAIL

NTS

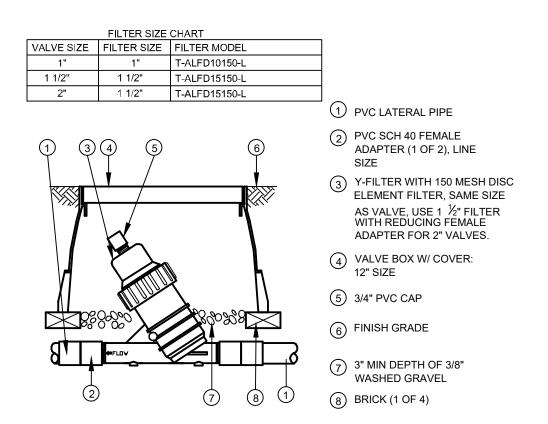




REGULATING MODULE (PRS-D) FOR ALL 1" THRU 3": PVC SCH 80 TEE OR ELL —— 4" THRU 6": LEEMCO DUCTILE IRON GASKETED NOTE: INSTALL 1" TORO Y-FILTER SERVICE TEE OR TAPPED PLUG #T-ALFS10150-L WITH 150 MESH STAINLESS SCREEN FOR ALL BUBBLER VALVES IN

NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

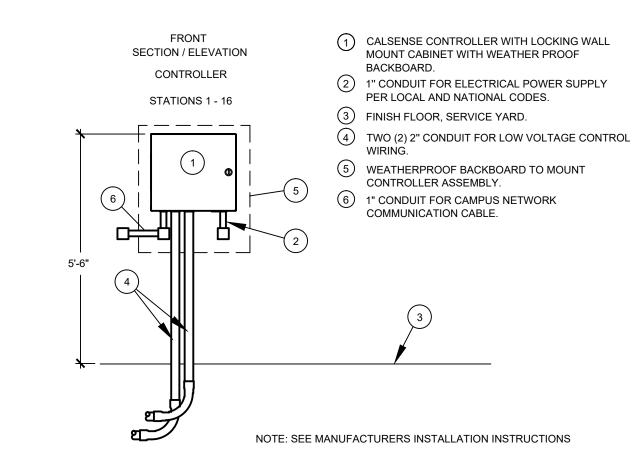
" REMOTE CONTROL VALVE

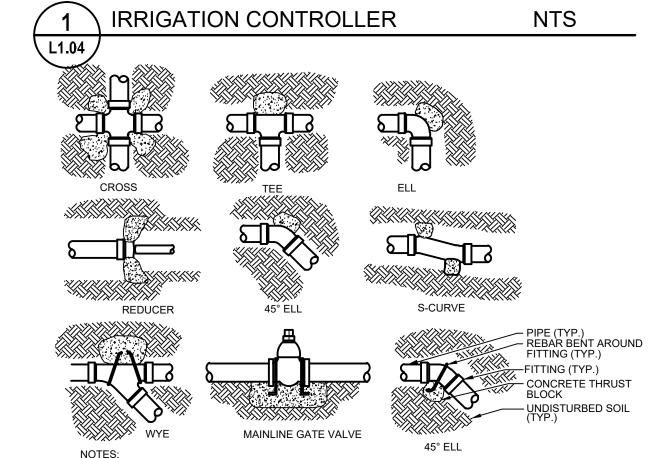


NOTE: INSTALL LINE SIZE FILTER (SEE FILTER SIZE CHART) ON BUBBLER VALVES IN SEPARATE VALVE BOXES - ADJACENT TO REMOTE CONTROL VALVE. FILTERS ARE TO BE INSTALLED ON DISCHARGE SIDE OF VALVE.

Y FILTER DETAIL

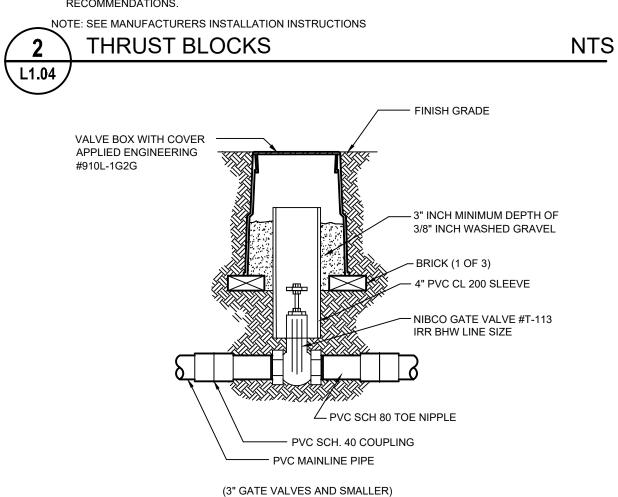
NTS





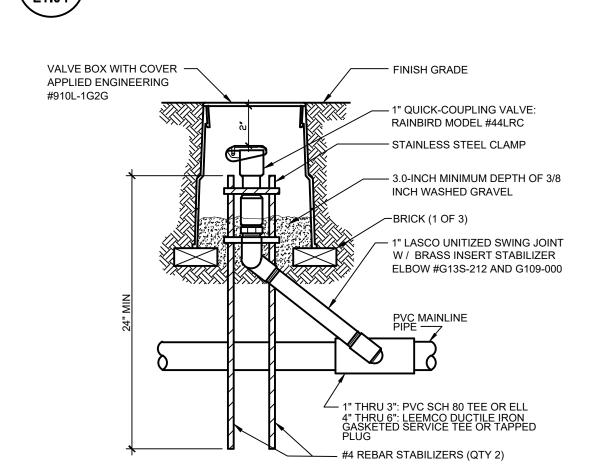
1. SUPPLY LINES 3-INCHES IN DIAMETER AND LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS. 2. SEE PIPE MANUFACTURERS SPECIFICATIONS FOR AMOUNT OF CONCRETE TO BE USED FOR THRUST

3. INSTALL ALL PIPE IN STRICT ACCORDANCE W/ PIPE MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.



NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

MAINLINE GATE VALVE



NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

QUICK-COUPLING VALVE

NTS

G:\2022frs\22-5527 MLK WELLNESS CENTER\Sheets SEAN PARKER

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122605 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 05/11/2023

BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

WELLNESS CENTER

WELLNESS CENTER

1100 CITADEL STREET BAKERSFIELD, CA 93307



designs

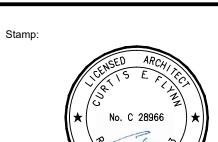
by SOMAM, Inc.

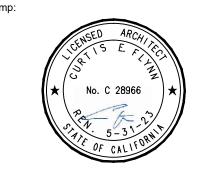
ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

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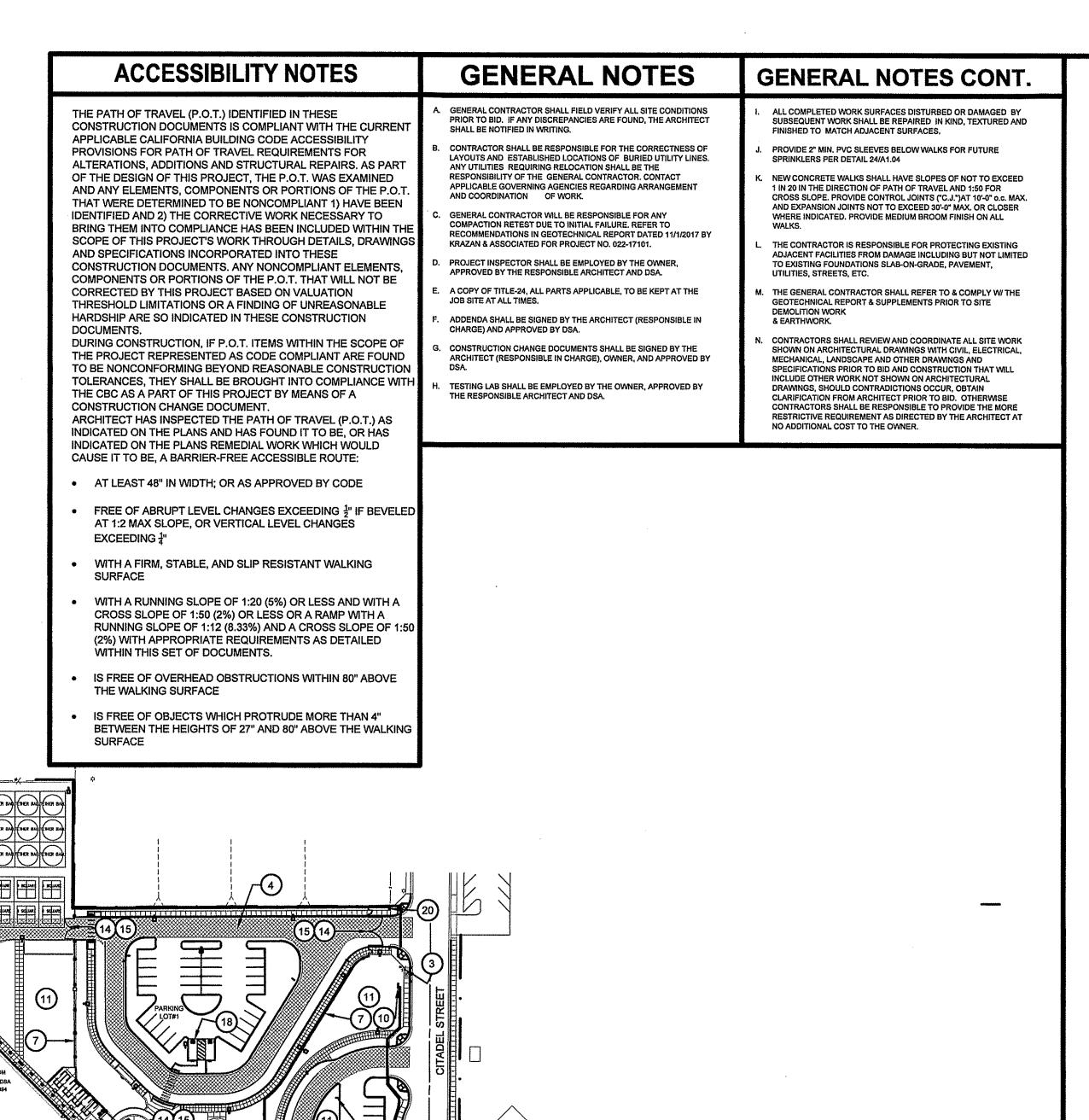
Sheet Title:

IRRIGATION DETAILS

5527

elease: DSA BACKCHECK

	ΜΔΤ	ERIAL AND FINISH SCHEDULE		DOOR SCHEDULE		
		MATERIAL AND FINISH SCHEDULE		DOOR SCHEDULE		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
	No. ROOM NAME		DOOR TYPE DOOR OPENING DOOR	FRAME GLASS LOUVER U/L HARDWARE DETA		APP: 03-122605 INC: REVIEWED FOR
	101 LOBBY VCT FF RTB FF 4" -	GB P GB P GB P GB P SAT FF 9-0"	NO. NO SIZE THK MAT CORE F 101A A 3'-0" X 7'-0" 1-3/4" MTL INSUL	P HM P FULL 5 1/A7.01 2/A7.01	2/A7.01 3/A7.01	SS FLS ACS ACS ACS ACS ACS ACS ACS A
	102 UNISEX TOILET CT FF CTB FF 6" - 103 NURSES OFFICE SV FF SV FF 4" -	CT FF CT FF CT FF CT FF GB P 8'-0" GB P GB P GB P GB P SAT FF 9'-0"	101B B 3'-0" X 7'-0" 1-3/4" WD SC F 102 B 3'-0" X 7'-0" 1-3/4" WD SC F	FF HM P 6X30 - - 6 2/A8.02 3/A8.02 FF HM P - - 3 2/A8.02 3/A8.02		Owner
7	104 UNISEX TOILET CT FF CTB FF 6" -	- CT FF CT FF CT FF GB P 8-0"	103 B 3'-0" X 7'-0" 1-3/4" WD SC E 104 B 3'-0" X 7'-0" 1-3/4" WD SC E	FF HM P - - 2 2/A8.02 3/A8.02 FF HM P - - 3 2/A8.02 3/A8.02		Owner:
	105 MEDICAL ASSISTANT OFFICE SV FF SV FF 4" - 106 EXAM ROOM SV FF SV FF 4" -	GB P GB P GB P GB P SAT FF Z GB P GB P GB P SAT FF 9'-0"	100 B 30 X7-0 1-014 WD 30 1	FF HM P - - 1 2/A8.02 3/A8.02 FF HM P - - 1 2/A8.02 3/A8.02		
	107 EXAM ROOM SV FF SV FF 4" - 108 EXAM ROOM SV FF SV FF 4" - 109 EXAM ROOM SV FF SV FF 4" -	GB P GB P GB P GB P SAT FF 9'-0" GB P GB P GB P GB P SAT FF 9'-0" GB P GB P GB P SAT FF 9'-0"	107 B 3'-0" X 7'-0" 1-3/4" WD SC I 108 B 3'-0" X 7'-0" 1-3/4" WD SC I	FF HM P - - 1 2/A8.02 3/A8.02 FF HM P - - 1 2/A8.02 3/A8.02		THE CHILD COME
	100 (50.1) Horizon (100 applicable) (100 applicable) Horizon (100 applicable) (100 applicable)	GB P GB P GB P GB P SAT FF 9'-0" FF 4'-0" GB P GB P GB P SAT FF 9'-0"	109 B 3'-0" X 7'-0" 1-3/4" WD SC II 110 B 3'-0" X 7'-0" 1-3/4" WD SC II	FF HM P - - 1 2/A8.02 3/A8.02 FF HM P - - 1 2/A8.02 3/A8.02		BAKERSFIELD
4	112 OPTICAL ROOM SV FF SV FF 4" - 113 LAUNDRY ROOM SV FF SV FF 4" -	GB P GB P GB P GB P SAT FF 9'-0" GB P GB P GB P SAT FF 9'-0"	111 B 3'-0" X 7'-0" 1-3/4" WD SC II 112 B 3'-0" X 7'-0" 1-3/4" WD SC II	FF HM P - - 4 2/A8.02 3/A8.02 FF HM P - - 1 2/A8.02 3/A8.02	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	CITY SCHOOL
	114 UNISEX TOILET CT FF CTB FF 6" - 115 BREAK ROOM VCT FF RTB FF 4" -	CT FF CT FF CT FF GB P 8'-0" GB P GB P GB P SAT FF 9'-0"	113 B 3'-0" X 7'-0" 1-3/4" MTL INSUL 114 B 3'-0" X 7'-0" 1-3/4" WD SC I	P HM P 4 1/A7.01 2/A7.01 FF HM P 3 2/A8.02 3/A8.02		DISTRICT
	116 OFFICE CPT FF RTB FF 4" - 117 OFFICE CPT FF RTB FF 4" -	GB P GB P GB P GB P SAT FF 9'-0" GB P GB P GB P SAT FF 9'-0"	115 B 3'-0" X 7'-0" 1-3/4" WD SC I	FF HM P 6X30 2 2/A8.02 3/A8.02 FF HM P 6X30 2 2/A8.02 3/A8.02		1300 BAKER STREET BAKERSFIELD, CA 93305
	118 HALLWAY VCT FF RTB FF 4" - 119 HALLWAY VCT FF RTB FF 4" -	GB P GB P GB P GB P SAT FF 9'-0" GB P GB P GB P SAT FF 9'-0"	120 B 3'-0" X 7'-0" 1-3/4" MTL INSUL 121A B 3'-0" X 7'-0" 1-3/4" WD SC I		2/A7.01 3/A7.01	Project Name:
	120 HALLWAY VCT FF RTB FF 4" - 121 TRAINING ROOM CPT FF RTB FF 4" - 122 ELECT./SERVER ROOM VCT FF RTB FF 4" -	GB P GB P GB P GB P SAT FF 9'-0" GB P GB P GB P GB P SAT FF 9'-0" GB P GB P GB P SAT FF 9'-0"	121B B 3'-0" X 7'-0" 1-3/4" WD SC I	FF HM P 6X30 2 2/A8.02 3/A8.02 FF HM P 4 2/A8.02 3/A8.02	3/A8.02 -	WELLNESS CENTER
	123 STORAGE ROOM VCT FF RTB FF 4" - 124 THERAPY ROOM CPT FF RTB FF 4" -	GB P GB P GB P GB P SAT FF 9'-0" - GB P GB P GB P SAT FF 9'-0"		FF HM P 4 2/A8.02 3/A8.02 FF HM P 6X30 2 2/A8.02 3/A8.02	3/A8.02 -	
	M&F NOTES	M&F ABBREVIATIONS	125 B 3'-0" X 7'-0" 1-3/4" MTL INSUL	P HM P 4 1/A7.01 2/A7.01	2/A7.01 3/A7.01	
	ALL FLOOR PLAN ROOM NAMES AND NUMBERS ARE	SAT = SUSPENDED ACCOUSTICAL TILE CEILING	DOOR TYPES	DOOR ABBREVIATIONS	ACCESSIBILITY NOTE	Project Address:
RI	FOR CONSTRUCTION INFORMATION ONLY. THE CONTRACTOR SHALL COORDINATE ACTUAL ROOM NAMES & NUMBERS WITH THE OWNER AND ARCHITECT PRIOR TO ORDERING ANY ROOM SIGNAGE.	CPT = CARPET	$ \begin{pmatrix} 5 \\ A7.01 \end{pmatrix} $ $ \begin{pmatrix} 1 \\ A7.01 \end{pmatrix} $	FF FACTORY FINISH HM HOLLOW METAL INSUL INSULATED	A. THE MAXIMUM EFFORT TO OPERATE EXTERIOR DOORS SHALL NOT EXCEED 5 POUNDS. CBC 11B-404.2.9 AT ACCESSIBLE ENTRANCES	WELLNESS
	2. SEE SPECIFICATIONS FOR ADDITIONAL FINISH MATERIAL INFORMATION.	CT = CERAMIC TILE CTB = CERAMIC TILE W/INTEGRAL COVE	9'-8" EQ EQ EQ 66"	L LAMINATED P PAINT (SEE SPECS) SC SOLID CORE	B. CBC 1010.1.11 - NEW BUILDINGS ON A K-12 PUBLIC SCHOOL CAMPUS SHALL BE PROVIDED WITH LOCKS WHICH ALLOW DOORS TO CLASSROOMS AND ANY	CENTER
	3. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.	FF = FACTORY FINISH	TEMP TEMP	WD WOOD MTL METAL TEMP TEMPERED	ROOM WITH AN OCCUPANT LOAD OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL CONFORM TO THE SPECIFICATION AND	1100 CITADEL STREET BAKERSFIELD, CA 93307
	4. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT AS PER CBC 11B-302.1	FRP = FIBERGLASS REINFORCED PANELS GB = GYPSUM BOARD	GLAZING COLAZING COLA		REQUIREMENTS OF SECTION 1010.1.9. EXCEPTIONS INCLUDE DOORS WHICH ARE NORMALLY LOCKED FROM THE OUTSIDE, RELOCATABLE MOVED	<u> </u>
4 I	5. ALL GLAZING TO COMPLY WITH CBC 2406.3	P = PAINT SYSTEM - SEE SPECIFICATIONS RTB = RUBBER TOPSET BASE	A7.01 A7.01 A7.01 TEMP GLAZING WHERE	\mathcal{G}	WITHIN THE SAME CAMPUS, AND RECONSTRUCTION PROJECTS.	
	6. GYP BOARD TEXTURE TO BE LIGHT SPAY PER SPECIFICATIONS	* SEE SPECIFICATIONS				
			TEMP GLAZING 3 WHERE OCCURS 47.06			
				INDOW SCHEDULE		integrated
				WINDOW SCHEDULE		designs
			TYPE FRAME SIZE FRA		REMARKS	by SOMAM, Inc.
			WIDTH X HEIGHT MAT A 9'-8" X 4'-0" HM		LION	ARCHITECTURE ENGINEERING
4 4 ■□			B 6'-0" X 4'-0" HM C 4'-0" HM	P 1" INSUL - 5/A7.01 7/A7.01 7/A.01 6/A P 1' INSUL - 5/A7.01 7/A7.01 7/A.01 6/A	7.01	INTERIOR DESIGN
			D 6'-0" X 4'-0" HM	P 1/4" - 10/A8.02 11/A8.02 11/A8.02 6/A	W/ HORIZONTAL	6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710
			E 16'-10" X 8'- 9 11/16" HM	P PERF - 9/A7.02 10/A7.02 12/A7.02 11/A	7.02	P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com
				WINDOW TYPES		integrateddesigns.com
∞					8'-5"	Ownership of Documents This document, the ideas and designs incorporated herein, as an instrument of Professional Service is the property of Integrated Designs by SOMAM Inc. and is not to be used, in whole or in part for any other project without written authorization.
						© COPYRIGHT 2022
			9'-8" $6'-0"$ $4'-0"$	6'-0" LO		Stamp:
8			EQ EQ EQ EQ V	AOICE MEASURE AS TO THE ASSURE AS TO THE AS TO THE ASSURE AS TO THE AS TO THE ASSURE AS TO THE AS TO THE ASSURE AS TO THE AS TO THE ASSURE AS TO THE AS TO THE ASSURE AS TO THE AS TO	PERFORATED METAL PANEL	SE ALIEN
∞				BOX 8 0 1 1 9		No. C 28966
N				EQEQEQEQ 3'-11" 3'-	-11"	OF CALIFORNIE
				$\frac{1}{3}$, $\frac{1}{1}$, $\frac{1}{1}$, $\frac{1}{2}$, $\frac{1}{1}$,	13'-11"	Sheet Title:
				FIELD MEAS	URE +	
			TYPE A TYPE B TYPE C	TYPE D TYPE E		SCHEDULES
			ABBREVIATIONS			
			HM HOLLOW METAL P PAINT (SEE SPECS) EQ EQUAL			Job No.:
			PERF PERFORATED METAL PANEL - STAINLESS STEEL INSUL INSULATED			5527
			PERF PERFORATED METAL PANEL - STAINLESS STEEL			Sheet No.:
			PERF PERFORATED METAL PANEL - STAINLESS STEEL			



MDSA

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

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 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 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.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for

ROJECT INFORMATION School District/Owner: Bakersfield City School District Project Name/School: Dr. Martin Luther King Jr. Elementary School - Wellness Center Project Address: 1100 Citadel, Bakersfield, CA 93307 FIRE & LIFE SAFETY INFORMATION Has a fire hydrant flow test been performed within the past 12 months? Yes ☑ (If yes, provide a copy of the test data.) 2. Was the fire hydrant water flow test performed as part of this LFA Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification No ☑ Refer to the following website for FHSZ locations: Moderate □ High □ Very High □

DGS DSA 810 (revised 12/29/20) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES

Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the

DSA 810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

http://egis.fire.ca.gov/FHSZ/

requirements of CBC Chapter 7A.)

CON	DITION MEANS AND METHODS RESOLUTION	ALTER	NATE A	CCEPTE	D		
4.	Emergency vehicle access roadways do not meet CFC requirements.	Yes	No	N/A	N/R	SAFE DISPERSAL A	REA
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.					WELLNESS CENTER = 3,600	
5.	Fire Hydrants: Number and spacing does not meet CFC requirements.			v		MIXED OCCUPANCY (SEE A2.10) = 75 O	CC
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.					75 OCC x 5 SF PER OCC = 375 S 400 SF (20' x 20') PROVIDED = OK	F REQ'D
6.	Fire Hydrants: Water flow and pressure are less than CFC minimum.	in string		1			
6a.	Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.					NOTE:	
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			•		 SAFE DISPERSAL AREA MUST BE 50' AWAY ANY BUILDING. DISPERSAL AREA SHALL BI 	=
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.	γ				PROVIDED WITH A SAFE AND UNOBSTRUCT OF TRAVEL FROM ANY BUILDING.	
	ol District Acceptance of Acceptable Design Alternates	as an el	lemative	io Califo	mia	SEE ELECTRICAL FOR SAFE DISPERSAL AR LIGHTING.	REA

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

DCAL FIRE AUTHORITY (LFA) INFORMATION LFA Agency Name: Bakersfield Fire Department LFA Review Official: PETER ARMAGOST Work Phone: 661-326-3677 Tille: FIRE PREVENTION OFFICER II Work Email: PARMAGOSTO BAKENSFIELD FIRE, US _Date: 2/ 7/23

Page 2 of 4 STATE OF CALIFORNIA DEPARTMENT OF GENERAL SERVICES

Hydrant Flow Test Report Test Date 10/26/2022 Test Time 4:00pm

Martin Luther King Jr. Elementary School 1100 Citadel St. Bakersfield, CA 93307

4Inch Big Hose Monster used for flow test Flow: Center of Campus Read: East of building A & B

Josh Castillo & Randy Seator Read Hydrant 54 psi static pressure 34 psi residual pressure 1.5 ft hydrant elevation

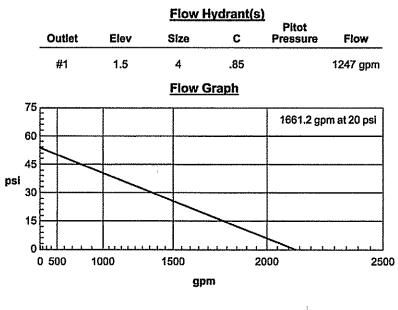
Tested by

661-322-9344 LIC# 777717

RLH Fire Protection

4300 Stine Rd. Ste 800

Bakersfield, CA 93308



KEY NOTES

- **NEW BUILDING UNDER THIS APPLICATION**
- EXISTING BUILDINGS DSA APP # 03-118394
- (E) FIRE HYRDRANT
- FIRE TRUCK ACCESS LANE (20'-0"WIDE MIN).
- NEW CONCRETE SIDEWALK

810

- (E) HARDCOVER PLAY AREA (E) 8' HIGH DECORATIVE STEEL FENCE
- ACCESSIBLE PATH OF TRAVEL
- POST INDICATOR VALVE (PIV), REFER TO DETAIL
- . (E) FIRE DEPARTMENT CONNECTION (FDC), PER DSA
- 1. (E) LANDSCAPING & IRRIGATION
- 12. (E) 8' HIGH CHAINLINK FENCE

FIRE TRUCK ACCESS ROAD

- 13. (E) TOWAWAY" ENTRANCE SIGN (E) KNOX BOX KEY VAULT PER LOCAL FIRE AUTHORITY REQUIREMENTS, TYP. AT ALL GATES IN
- 15. 22' WIDE DECOR. STEEL DBL GATE.
- 16. (E) 20'-0" WIDE DOUBLE CHAINLINK GATE
- 7. NEW 8' HIGH CHAINLINK FENCING
- 18. (E) ADA PARKING STALLS PER DSA #03-118394
- 19. (N) PIV SIGN, -SEE C1.1.

PARKING STALLS; 30

TOTAL ADA REQUIRED:2

PARKING STALLS: 48

TOTAL ADA REQUIRED: 2

TOTAL ADA REQUIRED: 3

TOTAL STALLS: 70

ADA PARKING: 4

ADA STALLS: 2

ADA STALLS: 2

1 VAN)

LOT #2

1 VAN)

LOT#3

I VAN)

PARKING LOTS

20. (E) TOW-AWAY ENTRANCE SIGN PER DSA #03-118394. 21. (E) ACCESSIBLE GATE PER DSA #03-118394 (CCD16).

22. (N) TRUNCATED DOMES, -SEE 8/A1.03.

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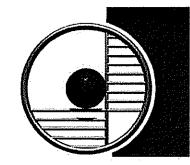
BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

WELLNESS CENTER

DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL

1100 CITADEL STREET BAKERSFIELD, CA 93307



integrated designs

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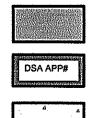
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SITE PLAN

LEGEND



EXISTING BUILDING

NEW BUILDING



(E) 20'-0" WIDE FIRE TRUCK ACCESS LANE

ACCESSIBLE PATH OF TRAVEL



PROPERTY LINE

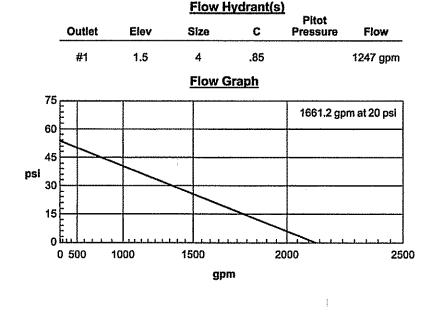
Release: DSA BACKCHECK

Sheet Title:

5527

A1.01

G:\2022frs\22-5527 MLK WELLNESS CENTER\Sheets SEAN PARKER



Created with the free hydrant flow test program from www.igneusinc.cor

1" = 80'-0"

WELLNESS CENTER

CLASSROOM BLDG 'C' DSA

(14)(16)

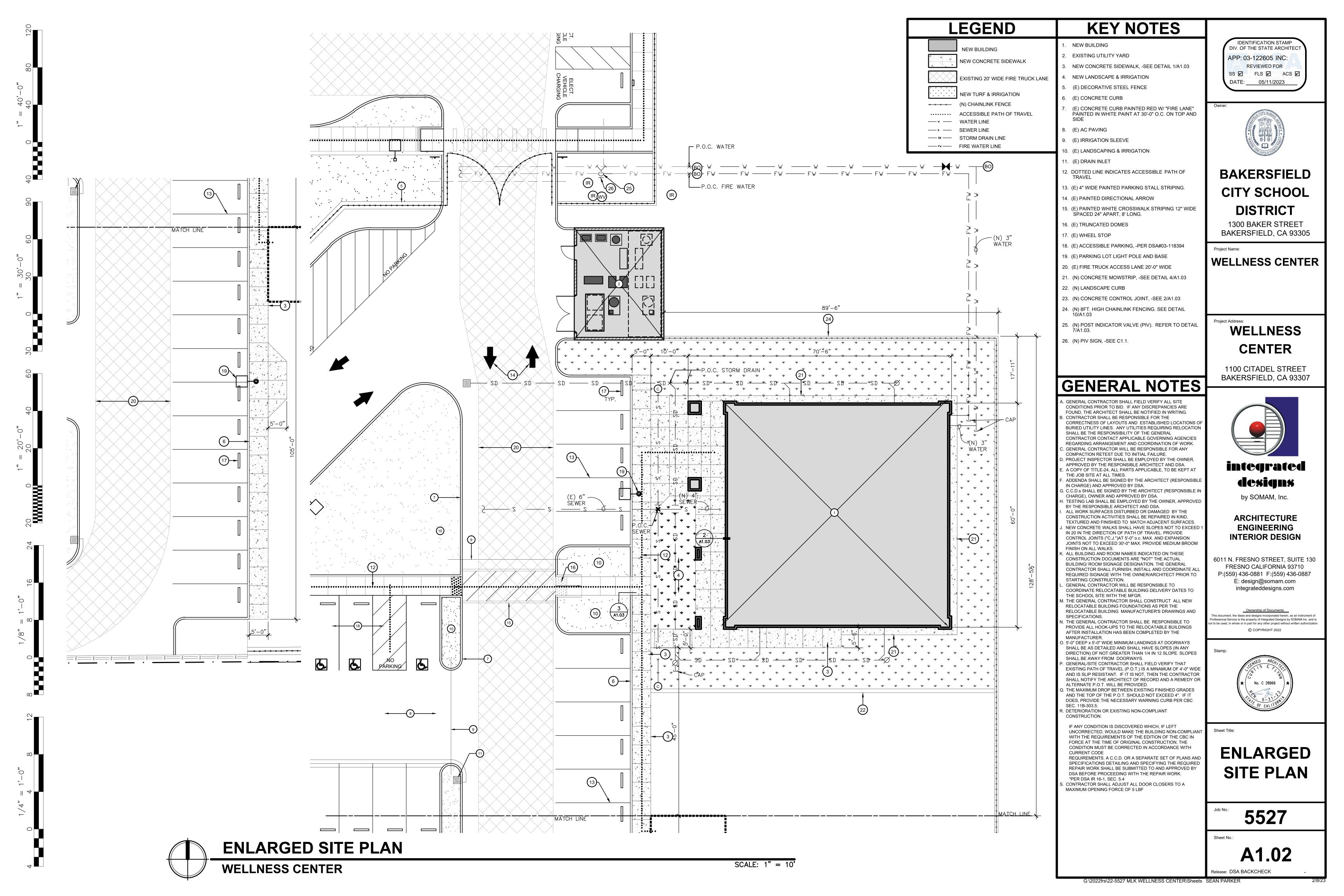
11

SITE PLAN

BLDG 'E' DSA 2

SCALE: 1" = 80

A1.02



LEGEND 1 FABRIC, 2" WIRE MESH, 9 GAUGE, KNUCKLED SELVEGE TOP AND BOTTOM 2 POST, LINE 3 POST, TERMINAL/CORNER (4) POST, GATE

8 TENSION WIRE, 7 GAUGE, STEEL COLD DRAWN: ASTM A-82

9 HOOK BOLTS, 60" ON CENTER

A) TO LINE POSTS AT 16" ON CENTER

B) TO TOP RAIL, BRACE RAILS, AND

(12) TENSION BAR, 3/16"X3/4", MILD STEEL 13) TENSION BANDS, AT 15" ON CENTER (14) FITTINGS, POST CAP, LINE 5 RAILS, TOP (15) FITTINGS, POST CAP, TERMINAL (6) RAILS, HORIZONTAL 16 FITTINGS, TOP RAIL SLEEVES (7) RAILS, BRACES

(17) GATES, FRAME GATES, HARDWARE, HINGES, MALLEABLE IRON, DOUBLE CLAMPING, NON-LIFT-OFF, OFFSET TYPE FOR 180E SWING

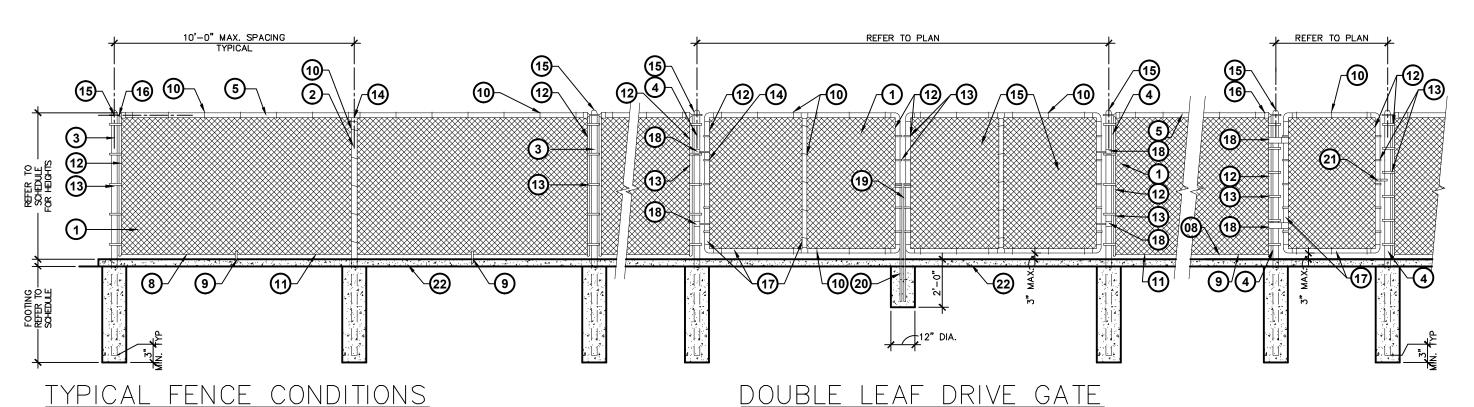
INTEGRAL PADLOCK EYES

11 HOG RINGS TO BOTTOM TENSION

WIRE AT 18" ON CENTER

(9) GATES, HARDWARE, DOUBLE LEAF LATCH, CENTER DROP ROD OR PLUNGER BAR, WITH

(CHAIN LINK GATE	POST AND FOOT	ING SCHEDULE				
MAX. FENCE	LINE POSTS		TERMINAL/CORNER POSTS		MAX. GATE LEAF WIDTH	GATE POST	POST FOOTINGS
HEIGHT	POST	FOOTING	POST	FOOTING	3'-8" THRU 8'-0"	2-7/8" O.D.	12" DIA. X 3'-0"[
'-0": FRIMETER BIKE ENCLOSURES	2 7/0" 0 0	10" 514 77 075	0.7/0".00	107 514 1/ 7/ 0/5	8'-0" THRU 13'-0"	4" O.D.	12" DIA. X 4'-0"D
TYPICAL UNLESS OTHERWISE	METER, BIKE ENCLOSURES, 2-3/8" O.D. 10" DIA. x 3'-0"D 2-7/8" O.D. 12"	12 DIA. X 3 –6 D	OVER 13'-0"	4" O.D.	12" DIA. X 5'-0"[



GATES, HARDWARE, STOP, FLUSH STEEL PLATE, WITH ANCHORS.

21 GATES, HARDWARE, LEAF LATCH

(22) MOWSTRIP PER DETAIL 7/A1.05.

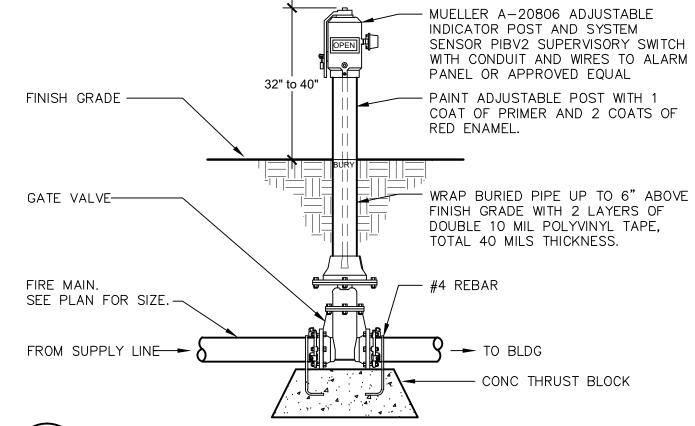
POST FOOTING. SEE CHAIN LINK POST AND FOOTING SCHEDULE.

NOTE: CONDITIONS SHOWN ARE CONSIDERED TYPICAL TO

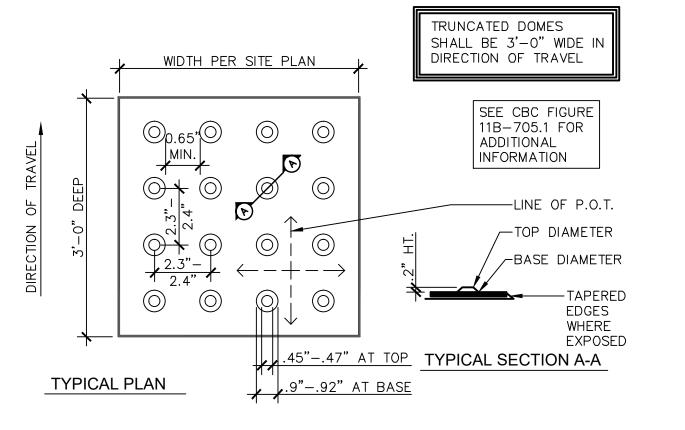
CHAIN LINK FENCES UNLESS NOTED OTHERWISE

TYPICAL FENCE / DRIVE & MAINTENANCE GATE ADY100-05_ADD2

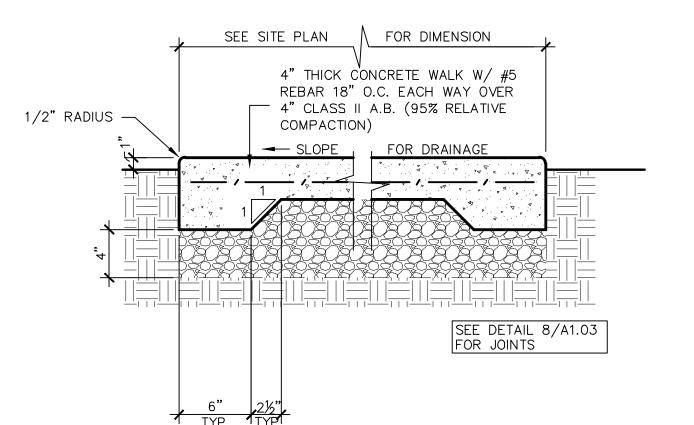
SCALE: 1/4" = 1'-0"



POST INDICATOR VALVE (PIV) \ A1.03 SDU230-21 SCALE: N.T.S.

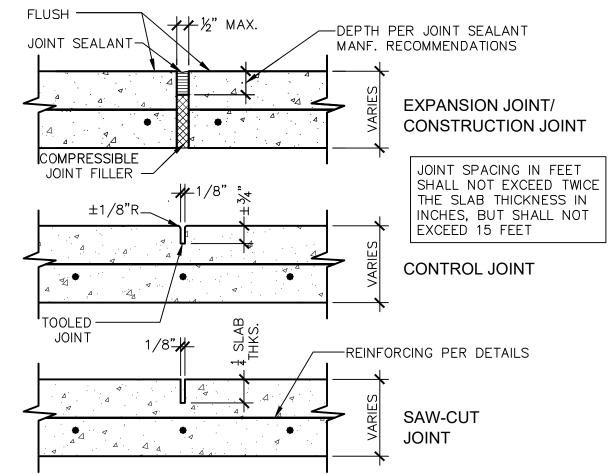


TRUNCATED DOMES COLOR: FEDERAL YELLOW FS 33538 **A1.03** ADA100-23 SCALE: N.T.S.



TYPICAL CONCRETE WALK

\ A1.03 ∫ SCALE: $1 \frac{1}{2} = 1'-0''$



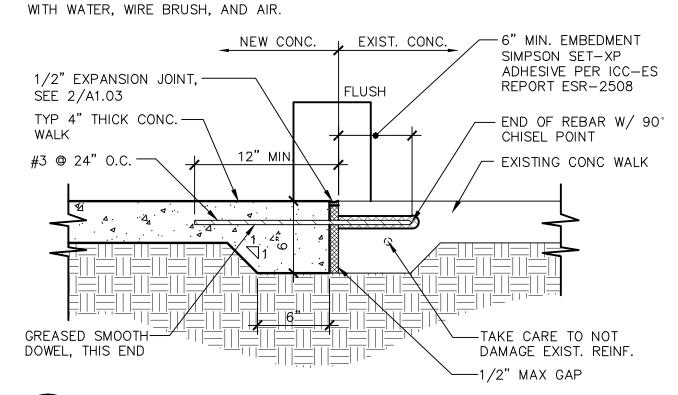
SCALE: 3" = 1'-0"

CONCRETE CONTROL JOINTS \ A1.03 /

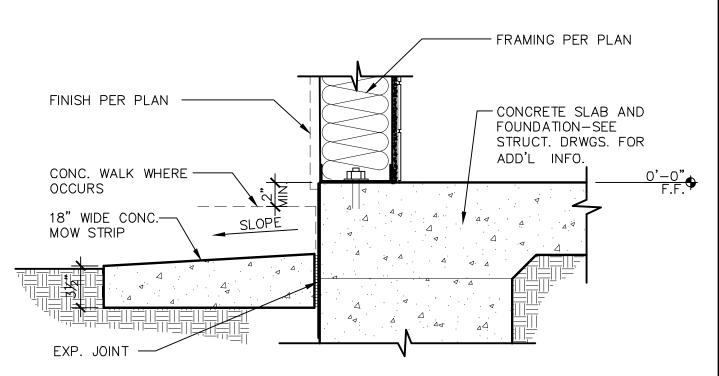
INSTALLATION:

\\ A1.03 \/

1. DRILL HOLE 1/8" LARGER THAN REBAR DIAMETER 2. CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS



(N) CONC WALK TO (E) CONC WALK A1.03 SCALE: $1 \frac{1}{2} = 1' - 0''$



TYPICAL MOWSTRIP SCALE: $1 \frac{1}{2} = 1' - 0''$ ADW131-23

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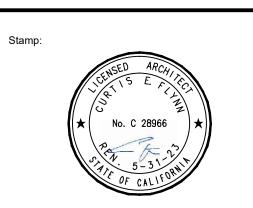
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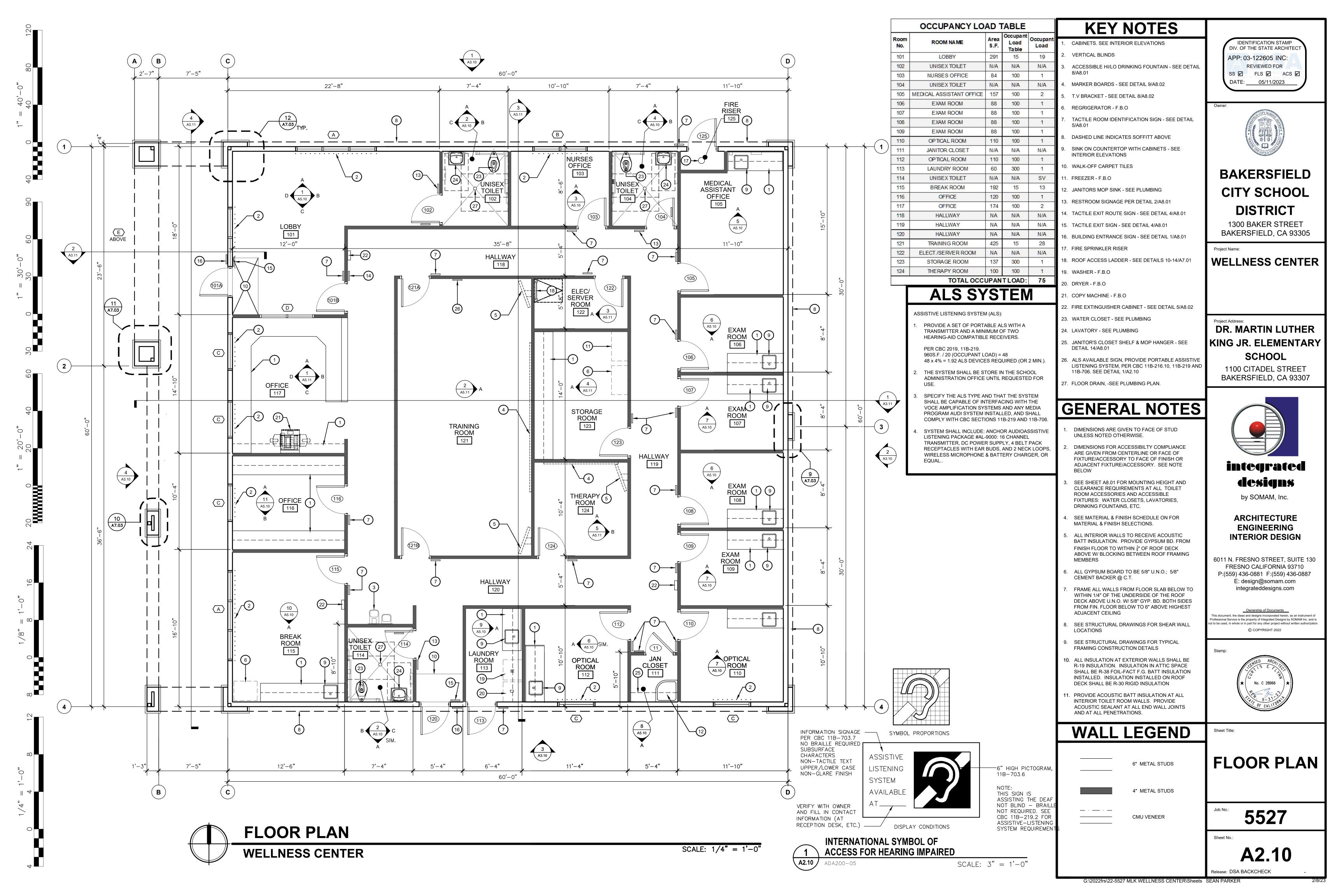


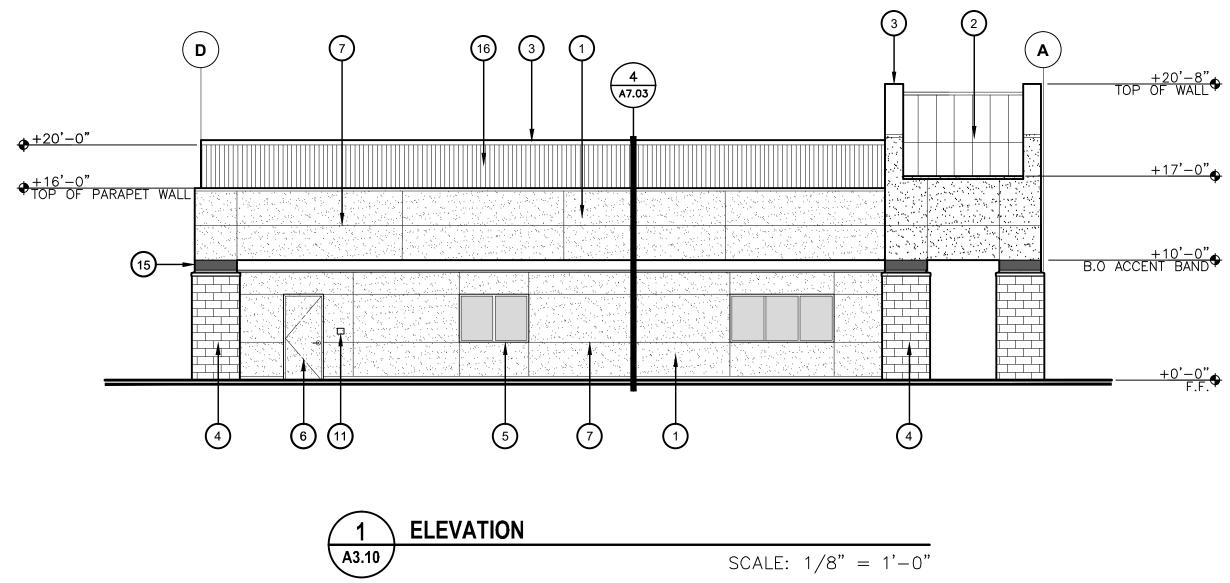
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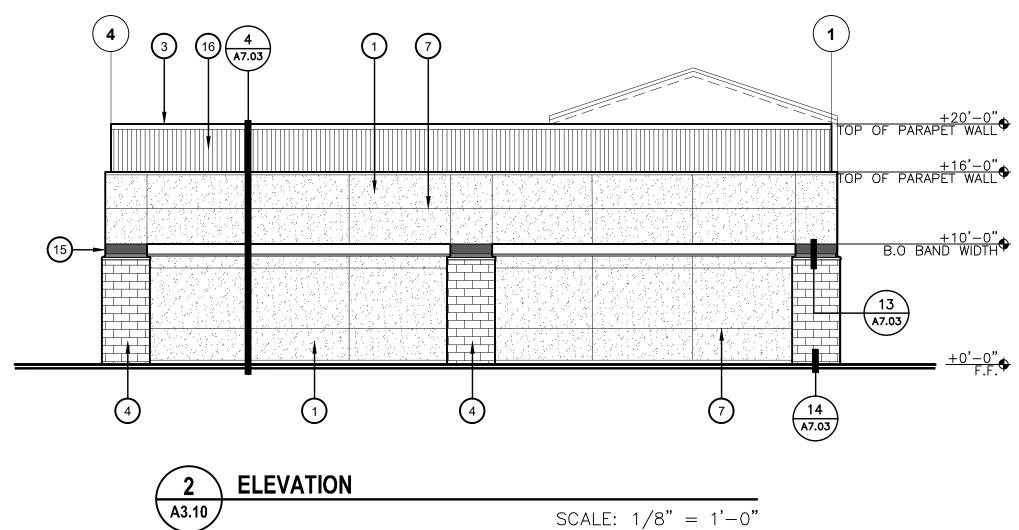
SITE DETAILS

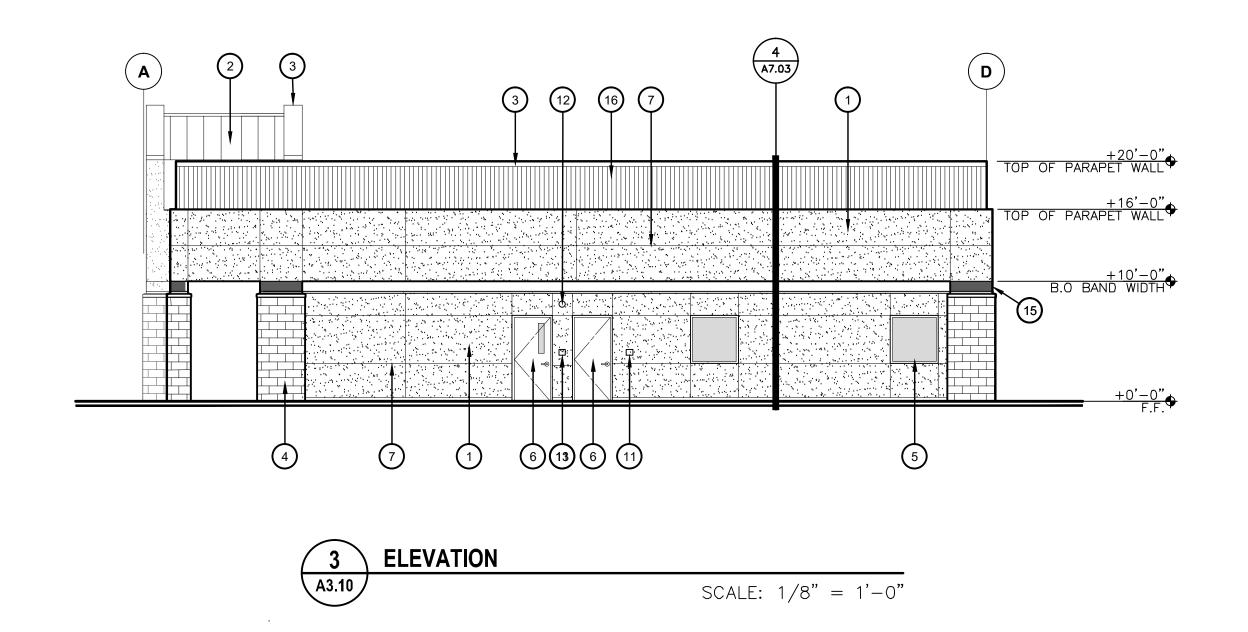
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A1.03 Release: DSA BACKCHECK

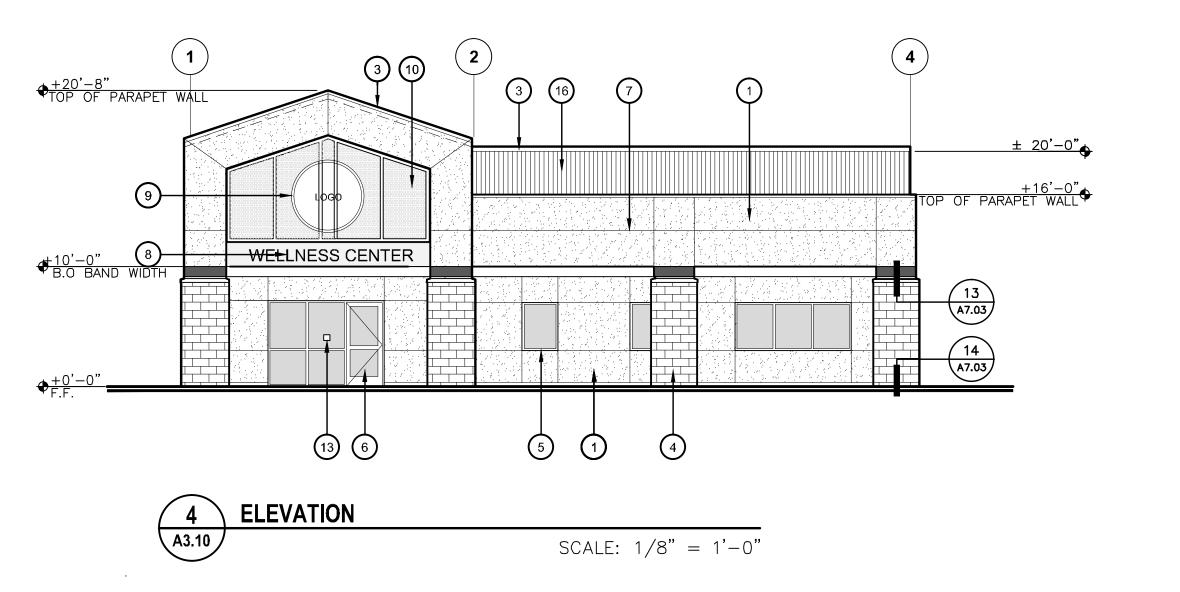








20 0



KEY NOTES

EXTERIOR CEMENT PLASTER o/ WEATHER BARRIER, PRIME AND PAINT

PRIME AND PAINT

2. PRE-FINISHED STANDING SEAM METAL ROOF o/ UNDERLAYMENTS - SEE SHEET A7.05 FOR TYPICAL

CLINCH-LOCK SEAM PER SMACNA DETAIL 1

FIGURE 3-2 AT SEAMS ALONG RAKED COPING,

- 3. 22 GA. SHEET METAL COPING, PROVIDE
- 4. CMU SPLIT FACED VENEER SEE DETAIL 13 &
- 5. H.M. WINDOW FRAME W/ 1" INSULATED GLAZING UNIT, PAINT FRAME - SEE WINDOW ELEVATIONS
- 6. HOLLOW METAL DOOR AND FRAME SEE DOOR SCHEDULE, PAINT
- 7. CONTROL JOINT TYPE #5 SEE 8/A7.01
- 8. 8" H. FLUSH MOUNTED CAST ALUMINUM DIMENSIONAL LETTERS (HELVETICA FONT)
- 9. 60" DIAMETER POWDER COATED STEEL PLATE W/ LASER CUT LOGO SIGN - DESIGN GRAPHICS TO BE PROVIDED BY OWNER - SEE DETAIL 11/A7.02
- 10. HOLLOW METAL FRAME WITH PERFORATED PANEL - SEE DETAILS 9 THRU 12 /A7.02
- 11. TACTILE ROOM IDENTIFICATION SIGN- SEE 5/A8.01
- 12. WALL MOUNTED EXTERIOR LIGHT FIXTURE SEE ELECTRICAL DRAWINGS
- 13. BUILDING ENTRANCE SIGN SEE DETAIL 1/A8.01
- 14. NOT USED
- 15. 12" PAINTED CEMENT PLASTER ACCENT BAND
- 16. METAL FASCIA PANEL SEE DETAIL 1 & 2/A7.06

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GENERAL NOTES

- ALL METAL LATH WIRE SHALL BE CUT BEHIND ALL EXPANSION/CONTROL JOINTS. THE CONTRACTOR SHALL PROVIDE STUDS AS REQUIRED @ ALL
- ALL EXTERIOR GLASS SEE WINDOW ELEVATIONS AND SCHEDULE
- 3. CEMENT PLASTER WILL BE PAINTED WITH 3 DIFFERENT COLORS (ELASTOMERIC P50.E)

1) MAIN BODY 2) SECONDARY BODY 3) 12" ACCENT BAND

HOLLOW METAL FRAMES & DOORS WILL BE PAINTED WITH A MIN. OF 2 COLORS

1) EXTERIOR SURFACE : 1. COLOR 2) INTERIOR SURFACE : 2. COLORS A) JAMB B) DOOR



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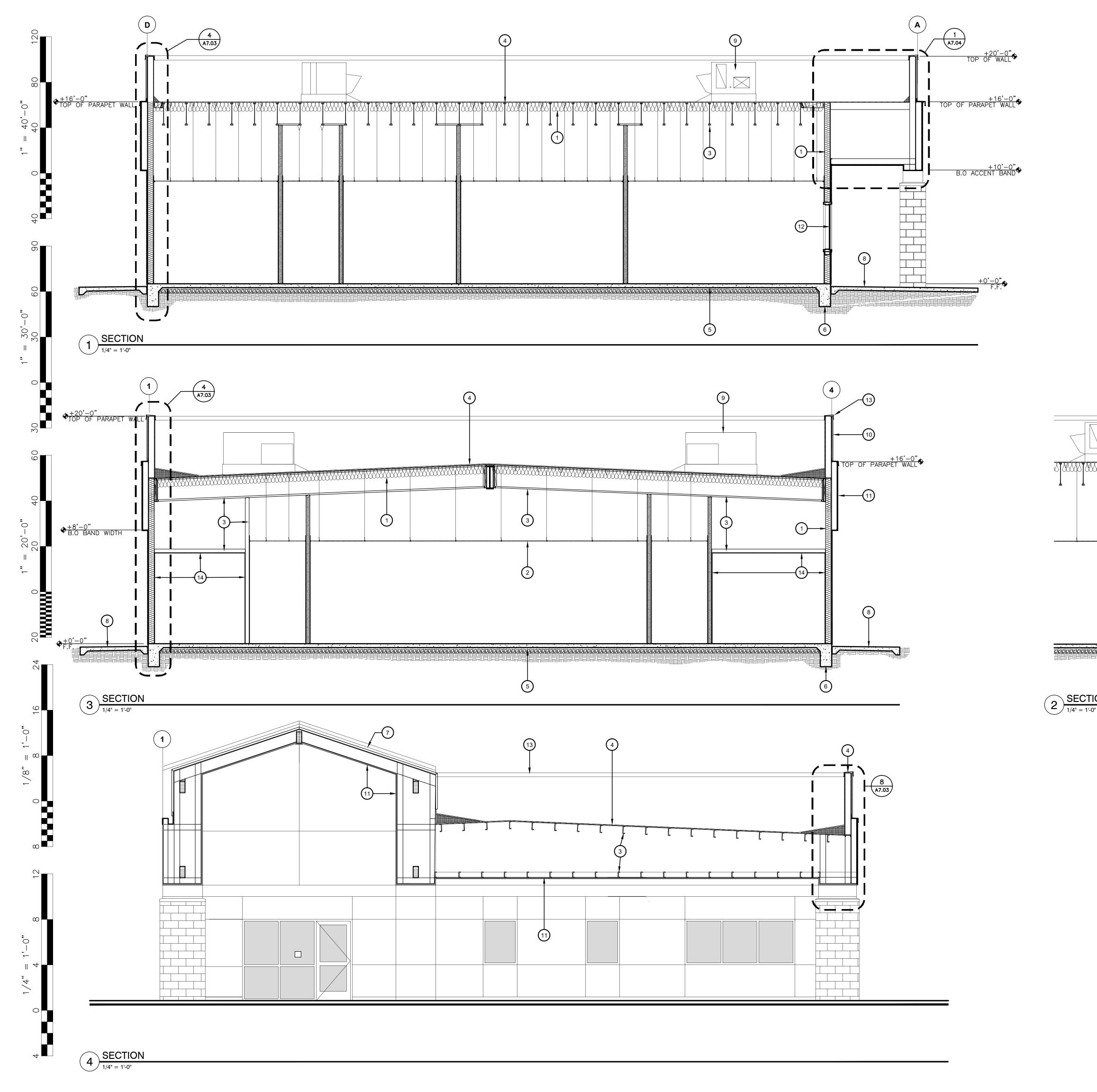


Sheet Title:

EXTERIOR ELEVATIONS

5527

A3.10



KEY NOTES

- BATT INSULATION
- SUSPENDED ACOUSTICAL TILE
- STRUCTURAL FRAMING SEE STRUCTURAL
- SINGLE PLY ROOFING MEMBRANE o/ PLYWOOD
- CONCRETE SLAB SEE STRUCTURAL
- CONCRETE FOOTING SEE STRUCTURAL
- STANDING SEAM METAL ROOFING SEE SHEET

+10'-0" TOP OF ACCENT BAND

12

- A7.05 FOR TYPICAL DETAILS
- CONCRETE SIDEWALK
- MECHANICAL UNIT
-). METAL FASCIA PANEL 11. CEMENT PLASTER SYSTEM
- 12. DOOR / WINDOW FRAME
- 13. SHEET METAL COPING
- 14. GYPSUM BD.

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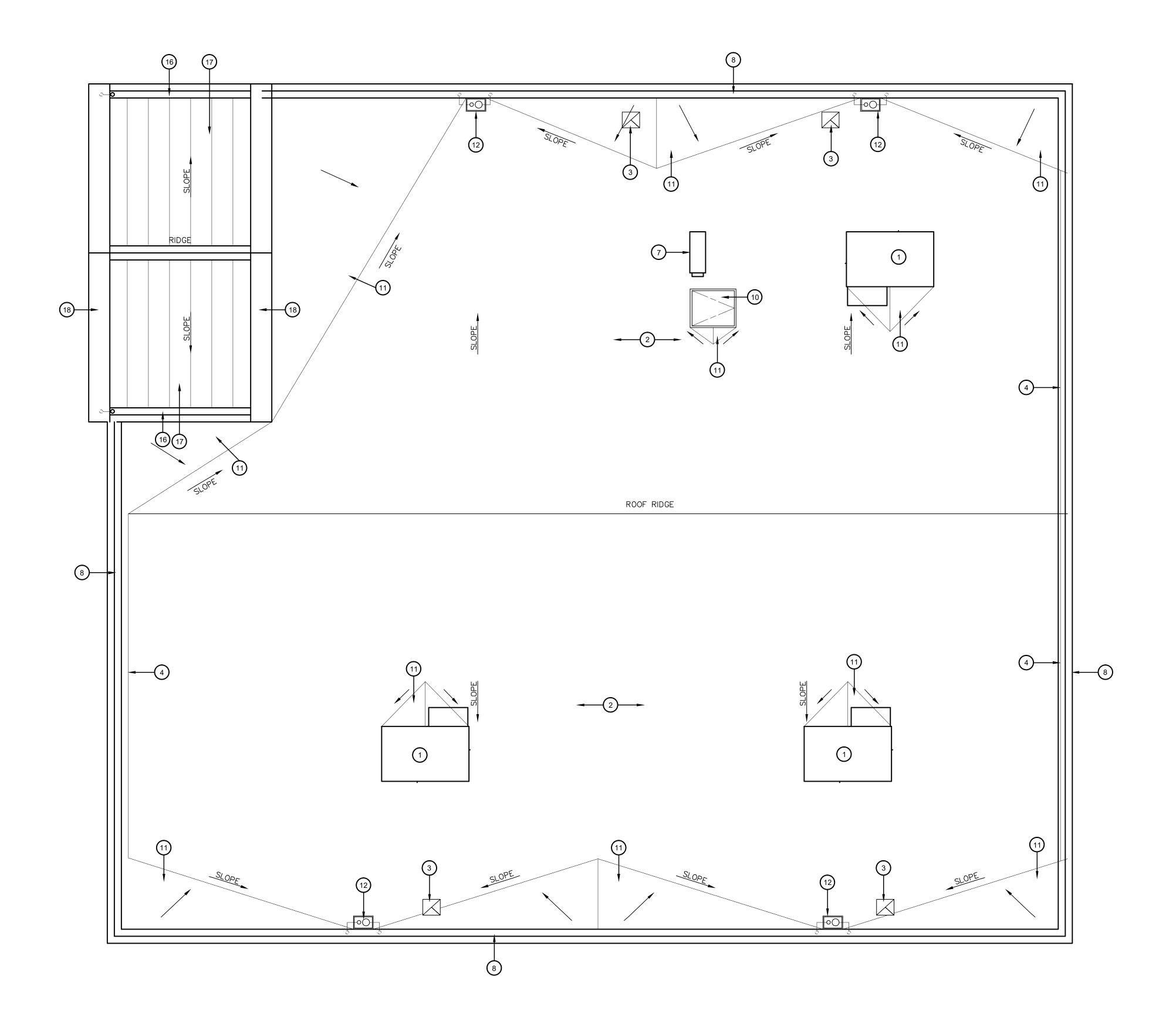


Sheet Title:

SECTIONS

5527

A3.11





SCALE: 1/4" = 1'-0"

KEY NOTES

- HVAC UNITS, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION - SEE DETAIL 5/A7.02
- CLASS "A" SINGLE-PLY ROOFING
- EXHAUST FAN ON CURB SEE DETAIL 6/M3.01 & 6/A7.02
- 4. CANT STRIP SEE DETAIL 4/A7.02
- 5. OUTDOOR UNIT PLATFORM
- 6. NOT USED
- 7. OUTDOOR UNIT ON PLATFORM. SEE MECHANICAL
- 8. 22GA METAL PARAPET CAP SEE DETAIL 5/A7.03
- 9. ROOF WALKWAY
- 10. ROOF HATCH SEE DETAIL 10/A7.01
- 11. RIGID INSULATION ROOF CRICKET SEE DETAIL 8/A7 02
- ROOF DRAIN AND OVERFLOW COMBO. ROOF DRAIN DOWN INSIDE WALL CONNECT TO STORM DRAIN SYSTEM BELOW GRADE. OVERFLOW DRAIN DOWN WALL DAYLIGHT THROUGH WALL 12" ABOVE F.F. SEE DETAIL 2/A7.02
- 13. NOT USED
- 14. 24GA METAL PARAPET CAP SEE DETAIL 13/A7.02
- 15. NOT USED
- 16. BUILT IN SHEET METAL GUTTER. DOWNSPOUT DOWN THROUGH COLUMN CONNECT TO STORM DRAIN SYSTEM BELOW GRADE
- 17. STANDING SEAM METAL ROOF SEE SHEET A7.05 FOR TYPICAL DETAILS
- 18. SHEET METAL COPING

GENERAL NOTES

- ALL ROOF PENETRATIONS SHALL BE WEATHER TIGHT
- ALL SHEET METAL COPING SHALL BE PAINTED TO MATCH ADJACENT FINISH. ALL FLASHING SHALL HAVE A 15# UNDERLAYMENT.

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BAKERSFIELD CITY SCHOOL DISTRICT

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BAKERSFIELD, CA 93305

roject Name:

WELLNESS CENTER

WELLNESS

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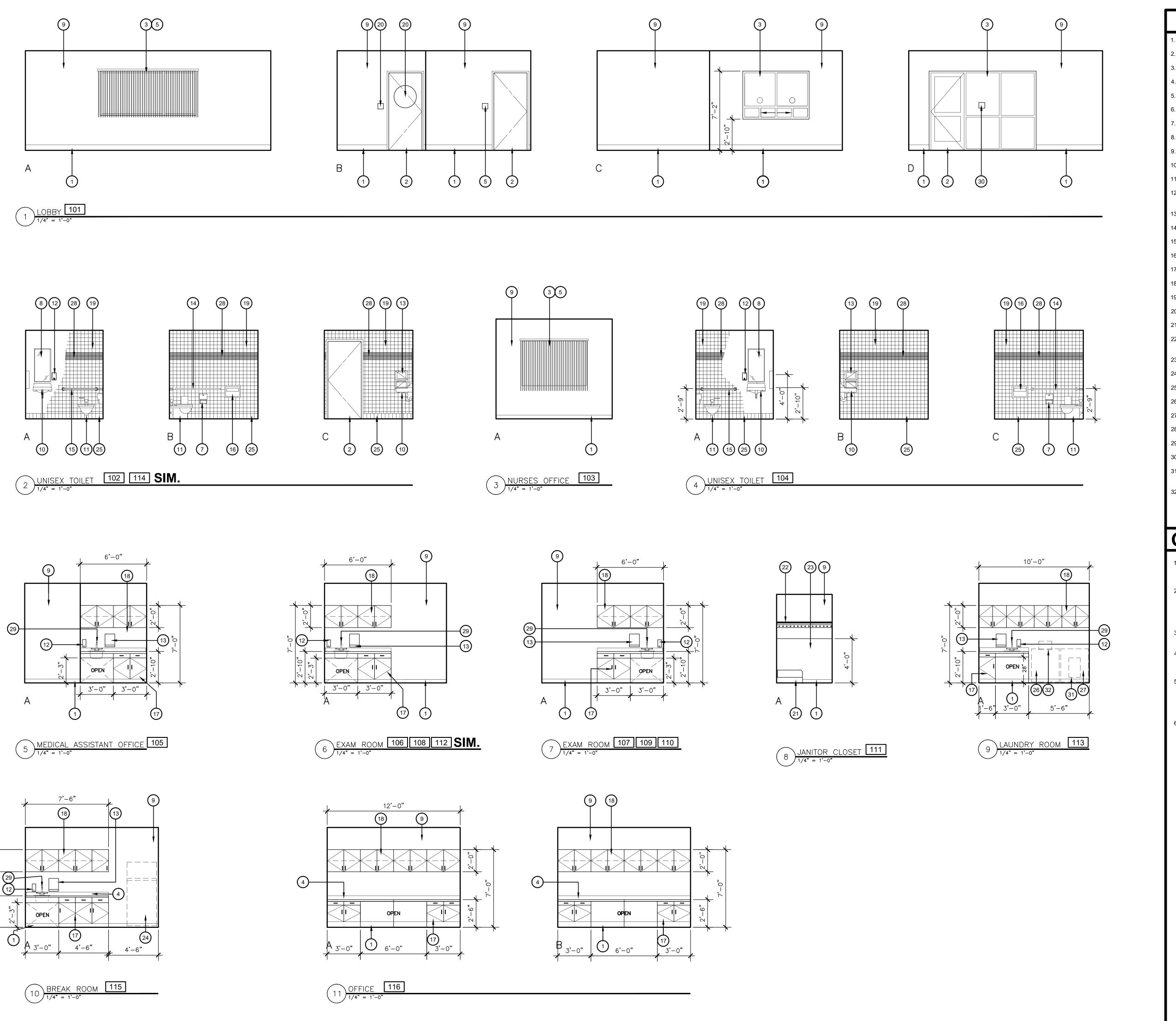
Sheet Title:

ROOF PLAN

5527

heet No

A4.10



20 0

KEY NOTES

- 1. 4" RUBBER TOPSET BASE
- 2. DOOR & FRAME,SEE DOOR SCHEDULE
 - WINDOW FRAME, SEE WINDOW SCHEDULE
- 4. 12 MM CORIAN COUNTERTOP WITH 4" BACKSPLASH
- 5. VERTICAL LOUVRE BLINDS
- 6. ROOM IDENTIFICATION SIGN, SEE DETAIL 5/A8.01
- '. TOILET TISSUE DISPENSER
- 8. MIRROR
- 9. GYPSUM BOARD TEXTURED, PRIME AND PAINT.
- 10. LAVATORY SEE PLUMBING DRAWINGS
- 11. FLOOR MOUNTED WATER CLOSET
- WALL MOUNTED SOAP DISPENSER F.B.O. INSTALLED BY CONTRACTOR
- 13. PAPER TOWEL DISPENSER
- 14. 48" LONG GRAB BAR GB-1 SEE DETAIL 12/A8.01
- 15. 36" LONG GRAB BAR GB-1 SEE DETAIL 12/A8.01
- 16. TOILET SEAT COVER DISPENSER
- 17. BASE CABINETS SEE DETAIL 12/A8.02
- 18. UPPER CABINETS SEE DETAIL 12/A8.02
- 19. CERAMIC WALL TILE
- 20. ACCESSIBLE RESTROOM SIGN SEE DETAIL 2/A8.01
- 21. MOP SINK SEE PLUMBING DRAWINGS
- 22. JANITOR'S SHELF & MOP HANGER SEE DETAIL 14/A8.01
- 23. FRF
- 24. REFRIGERATOR F.B.O.
- 25. 6" HIGH CERAMIC TILE COVE BASE
- 26. WASHER F.B.O.
- 27. DRYER F.B.O.
- 28. CERAMIC WALL TILE ACCENT COLOR
- 29. SINK W/ FAUCET SEE PLUMBING
- 30. TACTILE EXIT SIGN SEE DETAIL 4/A8.01
- 31. DRYER VENT BOX, -SEE MECHANICAL PLANS. FIELD VERIFY LOCATION.
- 32. WASHING MACHINE OUTLET BOX, -SEE PLUMBING
- PLANS. FIELD VERIFY LOCATION.

GENERAL NOTES

- REFER TO ROOM FINISH SCHEDULE FOR FINISHES SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS & FINISHES
- 2. CONTRACTOR SHALL PROVIDE BACKING AS PER MANUFACTURES REQUIREMENTS FOR ALL WALL MOUNTED ACCESSORIES. SEE DETAIL 11/A8.01 FOR ACCESSORY MOUNTING HEIGHTS AND DETAIL 12/A8.02 FOR CASEWORK ANCHORING
- 3. COLORS FOR ALL ITEMS OF WORK SHALL BE SELECTED BY ARCHITECT
- ALL CABINET DOOR PULLS SHALL BE MOUNTED VERTICALLY AND DRAWER PULLS SHALL BE MOUNTED HORIZONTALLY
- CONTRACTOR SHALL COORDINATE w/
 ELECTRICAL, PLUMBING, AND MECHANICAL
 DRAWINGS FOR LOCATIONS OF ALL OUTLETS,
 EXITS SIGNS, DATA BOXES, ACCESS DOORS, AND
 REQUIRED FINISHES
- 6. SEE DETAILS ON SHEET A8.01 FOR STANDARD MINIMUM ACCESSIBLE CLEARANCES/HEIGHTS AT TOILETS, LAVATORIES, TOILET ACCESSORIES, DRINKING FOUNTAINS, ETC.

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REVIEWED FOR

SS FLS ACS DATE: 05/11/2023

Owner:



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

oject Name:

WELLNESS CENTER

Project Address:

DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL

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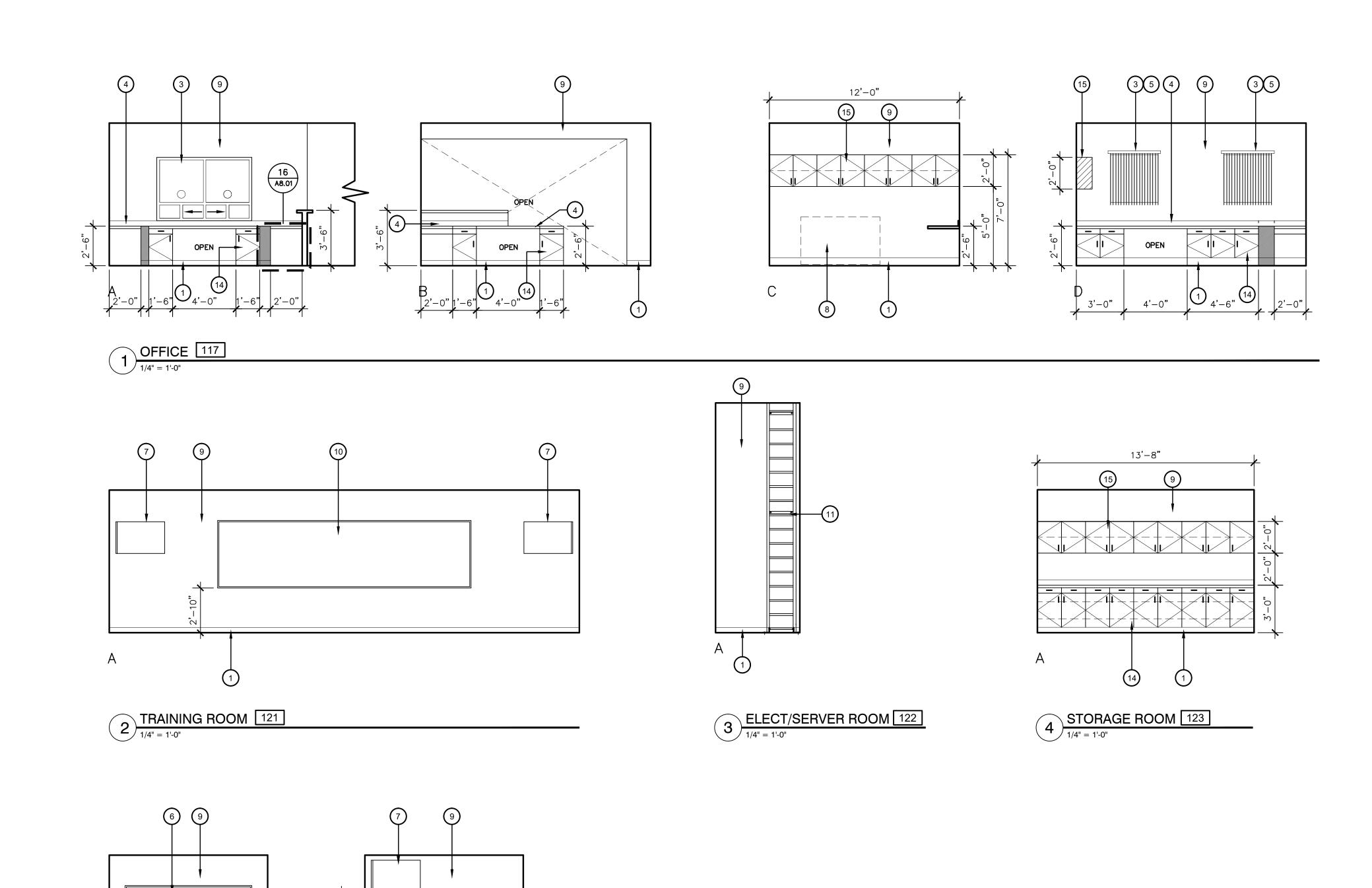
INTERIOR ELEVATIONS

5527

eet No.:

A5.10

Release: DSA BACKCHEC



5 THERAPY ROOM 124



- 4" RUBBER TOPSET BASE
- NOT USED
- WINDOW FRAME, SEE WINDOW ELEVATIONS & SCHEDULE
- 4. 12 MM CORIAN W/ 4" BACK SPLASH
- 5. VERTICAL LOUVRE BLINDS
- 6. 4'X8' MARKER BOARD SEE DETAIL 9/A8.02
- 7. T.V BRACKETS SEE DETAIL 8/A8.02
- 8. COPIER F.B.O
- 9. GYPSUM BOARD TEXTURE, PRIME, AND PAINT.
- 10. 4' X 16' MARKERBOARD SEE DETAIL 9/A8.02
- 11. ROOF ACCESS LADDER
- 12. NOT USED
- 13. NOT USED
- 14. BASE CABINETS SEE DETAIL 12/A8.02
- 15. UPPER CABINETS SEE DETAIL 12/A8.02

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1100 CITADEL STREET BAKERSFIELD, CA 93307

GENERAL NOTES

- REFER TO ROOM FINISH SCHEDULE FOR FINISHES SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS & FINISHES
- MANUFACTURES REQUIREMENTS FOR ALL WALL MOUNTED ACCESSORIES. SEE DETAIL 11/A8.01 FOR ACCESSORY MOUNTING HEIGHTS AND DETAIL 12/A8.02 FOR CASEWORK ANCHORING
- 3. COLORS FOR ALL ITEMS OF WORK SHALL BE SELECTED BY ARCHITECT
- 4. ALL CABINET DOOR PULLS SHALL BE MOUNTED VERTICALLY AND DRAWER PULLS SHALL BE MOUNTED HORIZONTALLY
- 5. CONTRACTOR SHALL COORDINATE w/ ELECTRICAL, PLUMBING, AND MECHANICAL DRAWINGS FOR LOCATIONS OF ALL OUTLETS, EXITS SIGNS, DATA BOXES, ACCESS DOORS, AND REQUIRED FINISHES
- 6. SEE DETAILS ON SHEET A8.01 FOR STANDARD MINIMUM ACCESSIBLE CLEARANCES/HEIGHTS AT TOILETS, LAVATORIES, TOILET ACCESSORIES, DRINKING FOUNTAINS, ETC.



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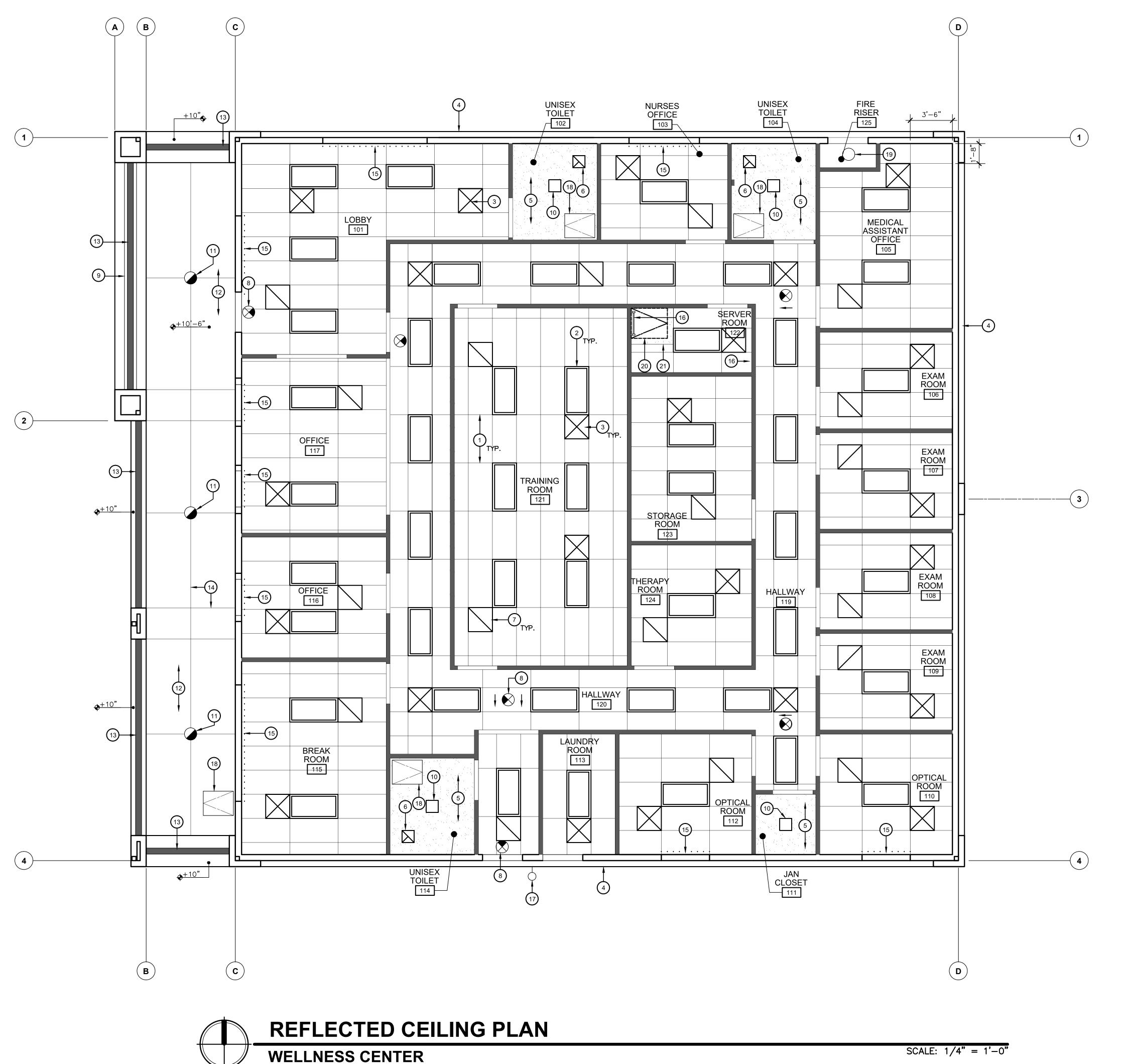


Sheet Title:

INTERIOR ELEVATIONS

5527

A5.11



KEY NOTES

- SUSPENDED ACOUSTICAL PANEL CEILING SEE SHEETS A8.03 & A8.04
- RECESSED LIGHT FIXTURE SEE ELECTRICAL MECHANICAL SUPPLY GRILLE - SEE MECHANICAL
- 4. ROOF OVERHANG
- GYPSUM BOARD CEILING SEE DETAIL 14/A7.05
- EXHAUST FAN SEE MECHANICAL
- RETURN GRILLE SEE MECHANICAL
- 8. ILLUMINATED EXIT SIGN SEE ELECTRICAL
- 9. BOX BEAM
- 10. 1'X1' SURFACE MOUNTED LIGHT FIXTURE SEE ELECTRICAL
- 11. CAN LIGHT FIXTURE
- 12. CEMENT PLASTER SOFFIT
- 13. 3" CONTINUOUS VENT SCREED
- 14. CONTROL JOINT
- 15. VERTICAL BLINDS
- 16. ROOF ACCESS LADDER
- 17. WALL MOUNTED LIGHT FIXTURE
- 18. ATTIC ACCESS DOOR SEE DETAIL 1/A7.02

GENERAL NOTES

1. ALL GYPSUM BOARD SOFFITS AND CEILINGS SHALL BE 5/8" THICK, UNLESS NOTED

SEE INTERIOR ELEVATIONS / SECTIONS FOR

CONTRACTOR SHALL BE RESPONSIBLE FOR

AROUND ALL ROOF PENETRATIONS, PER

PROVIDING PROPER WATER TIGHT FLASHING

ADDITIONAL INFORMATION AT SPECIAL CEILING

- 19. FIRE RISER
- 20. ROOF ACCESS DOOR, -SEE 10/A7.01
- 21. HANGING SOFFIT

OTHERWISE.

SMACNA STANDARDS

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122605 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 05/11/2023



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

WELLNESS CENTER

DR. MARTIN LUTHER KING JR. ELEMENTARY **SCHOOL**

1100 CITADEL STREET BAKERSFIELD, CA 93307



integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

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REFLECTED

CEILING PLAN

5527

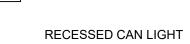
A6.10

LEGEND

SUSPENDED ACOUSTICAL TILE CEILING TO REMAIN









WALL MOUNTED LIGHT FIXTURE





EXIT SIGN



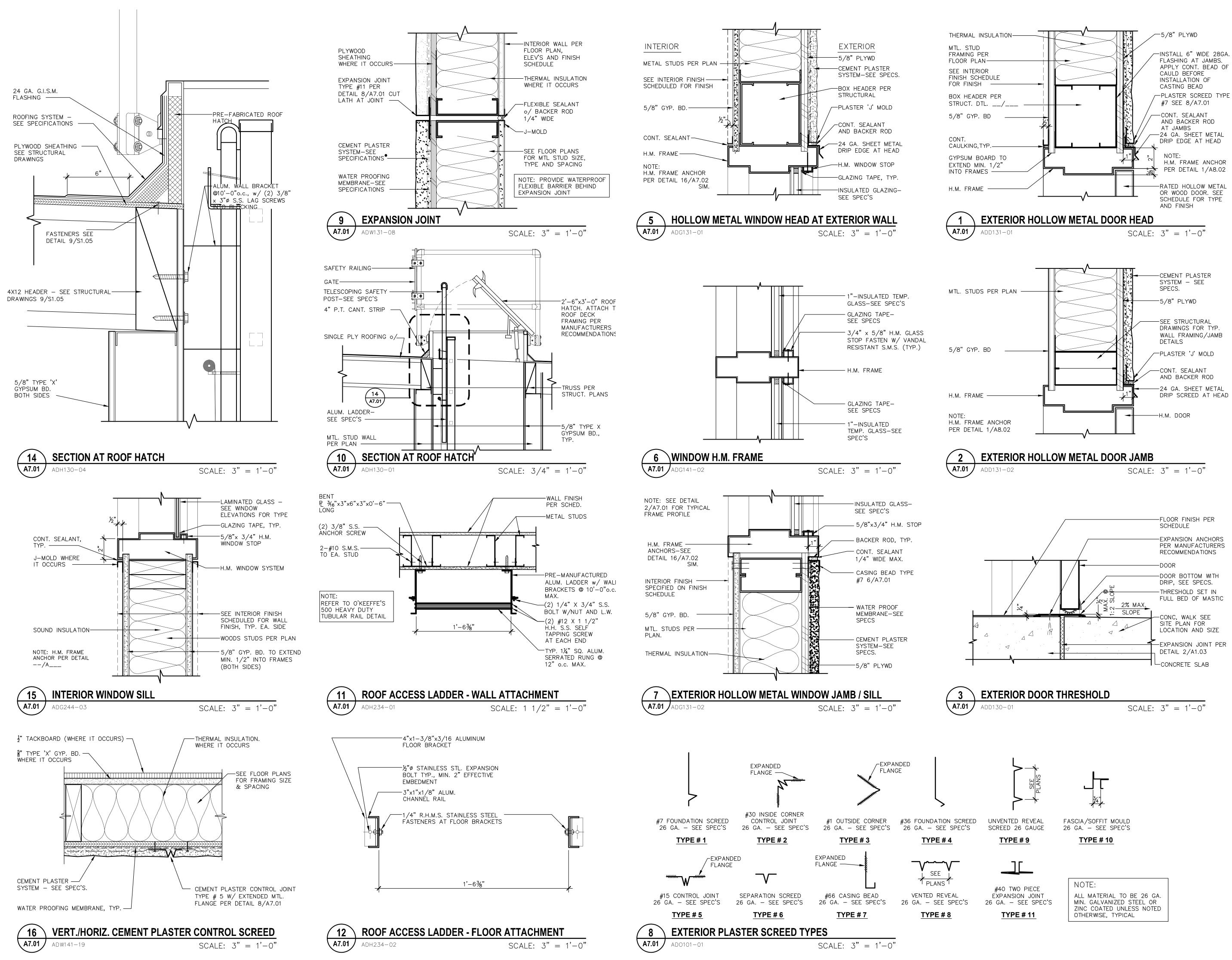
MECHANICAL SUPPLY GRILLE (SEE MECHANICAL DRAWINGS)



EXHAUST FAN (SEE MECHANICAL DRAWINGS)

Sheet Title:

GYPSUM BOARD CEILING



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APP: 03-122605 INC:

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DATE: 05/11/2023

Owner:



BAKERSFIELD CITY SCHOOL DISTRICT

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niect Name

WELLNESS CENTER

Project Address: DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL

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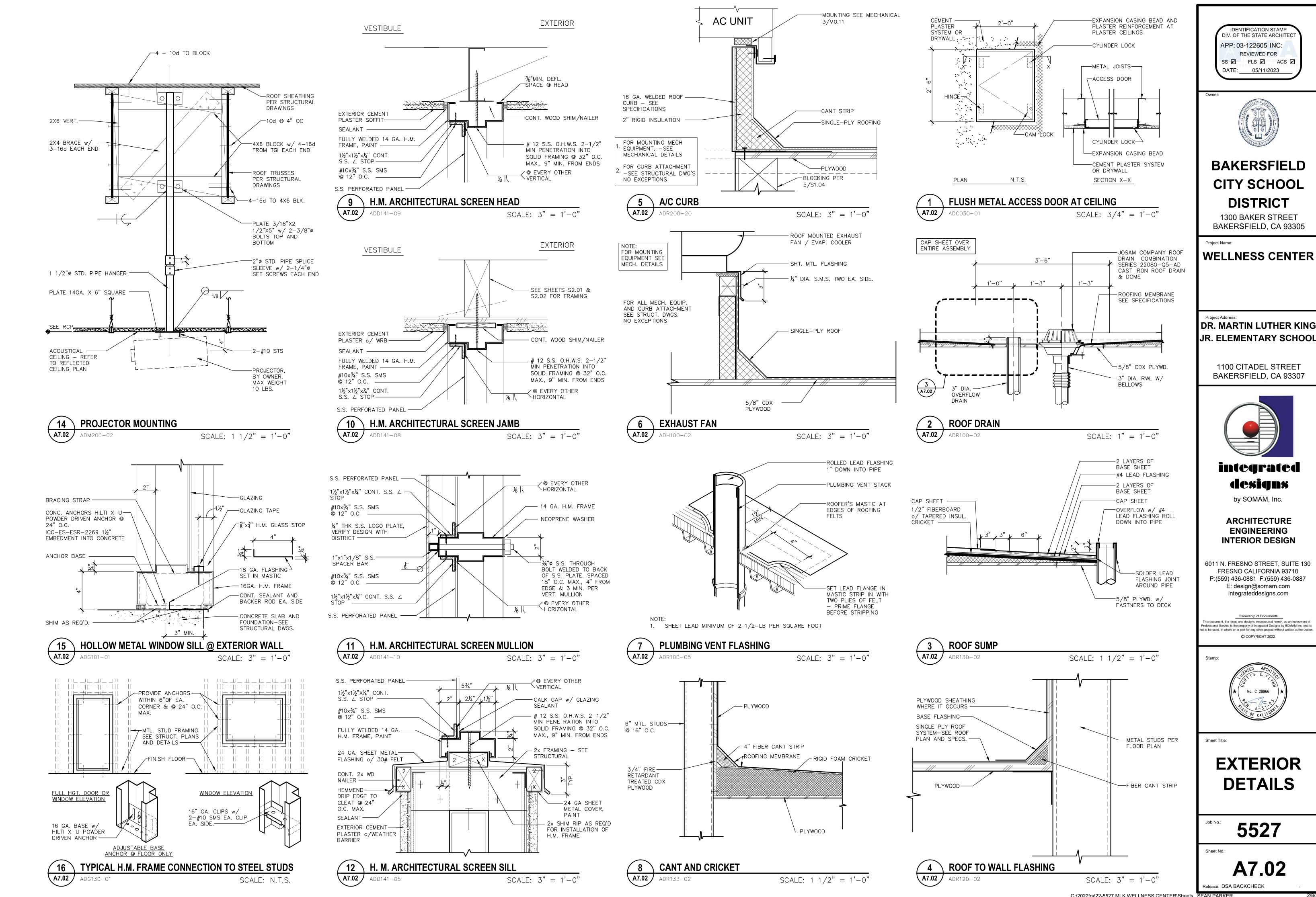
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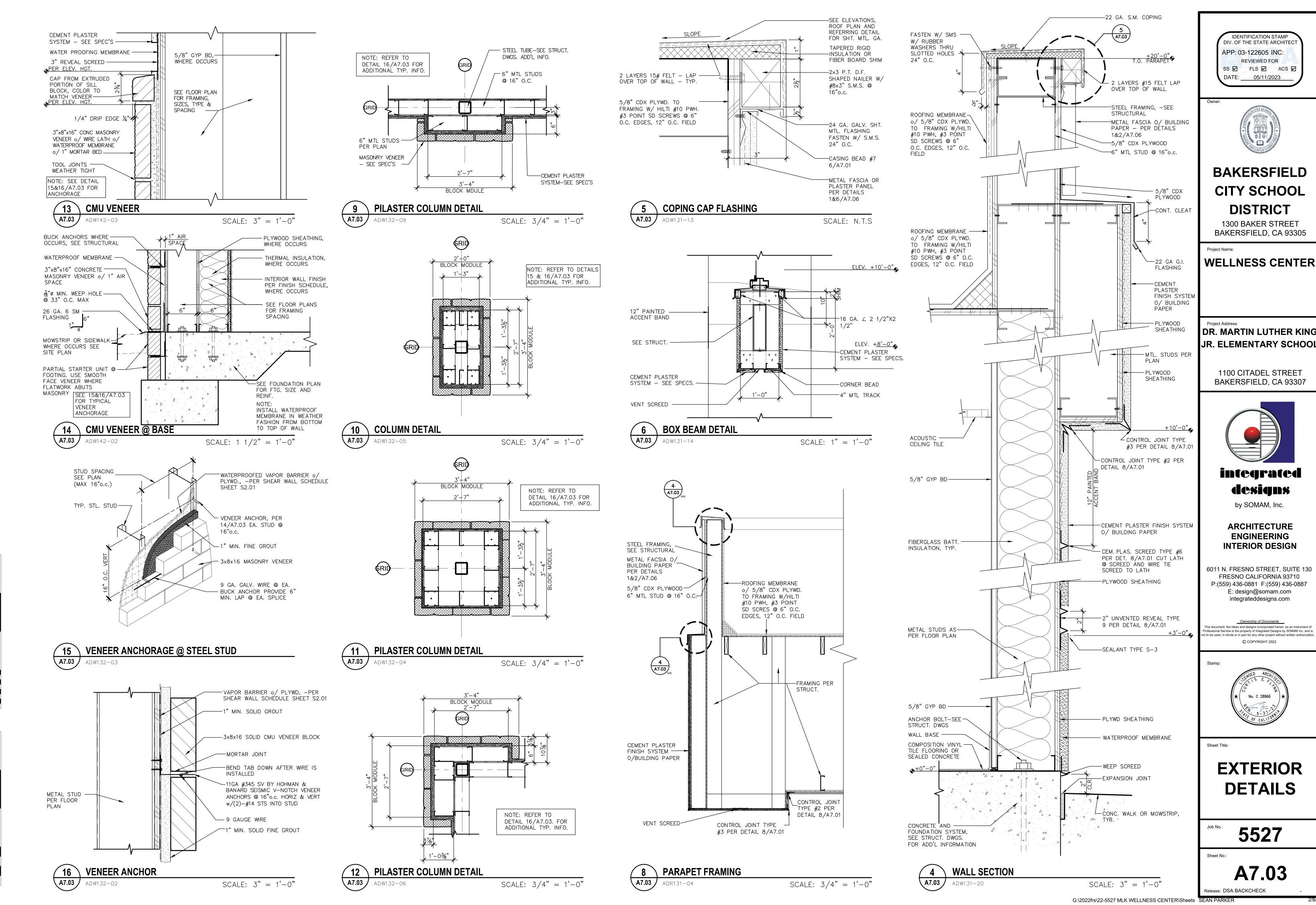
EXTERIOR DETAILS

5527

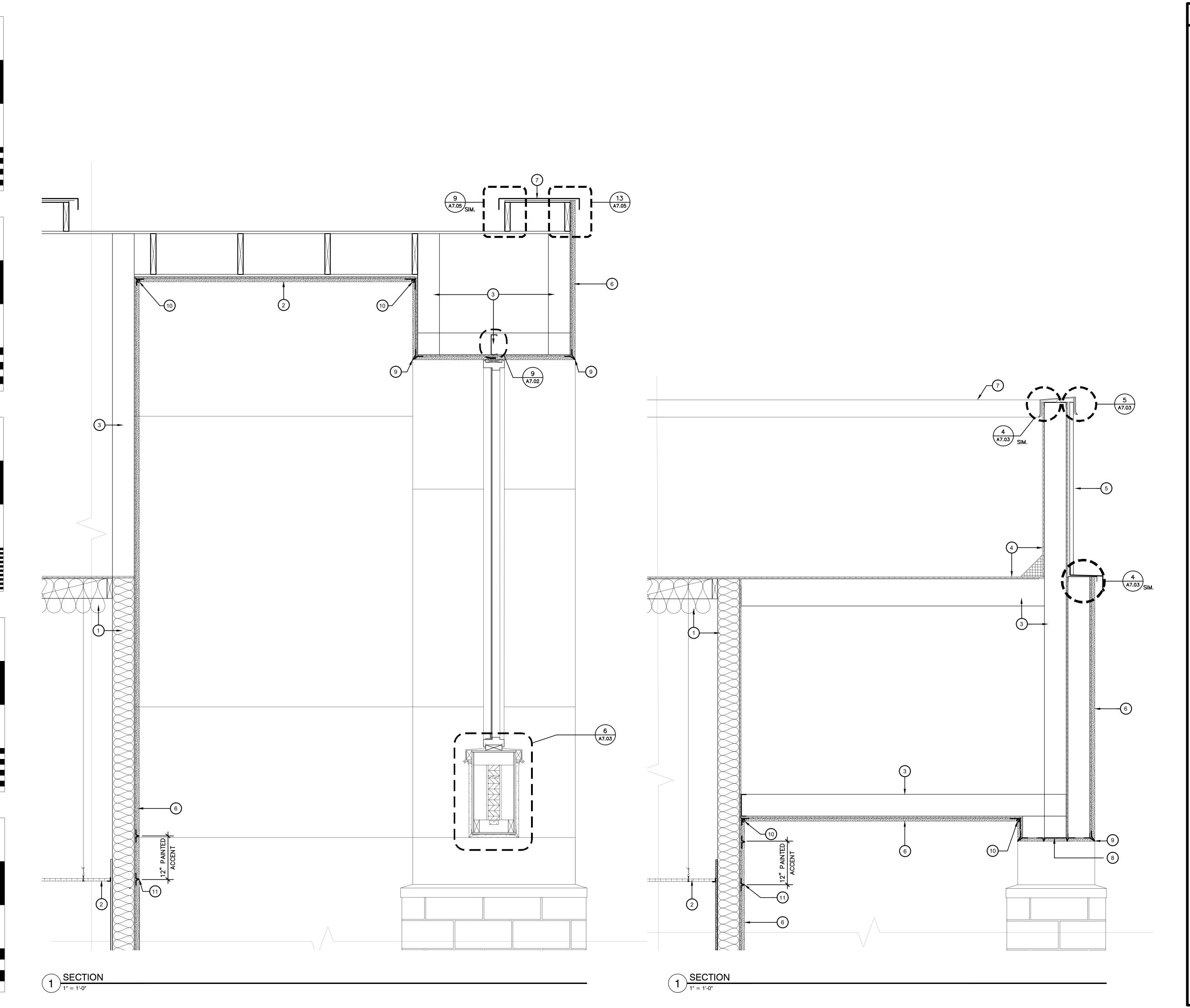
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A7.01
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DR. MARTIN LUTHER KING



KEY NOTES

- . BATT INSULATION
- 2. SUSPENDED ACOUSTICAL TILE
- 3. STRUCTURAL FRAMING, -SEE STRUCTURAL
- 4. SINGLE PLY ROOFING MEMBRANE o/ PLYWOOD
- 5. METAL FASCIA PANEL SEE DETAILS 1&2/A7.06
- 6. CEMENT PLASTER SYSTEM
- 7. SHEET METAL COPING
- 8. VENTED SCREED
- 9. #3 JOINT PER DETAIL 8/A7.01
- 10. #2 JOINT PER DETAIL 8/A7.01 11. #6 JOINT PER DETAIL 8/A7.01



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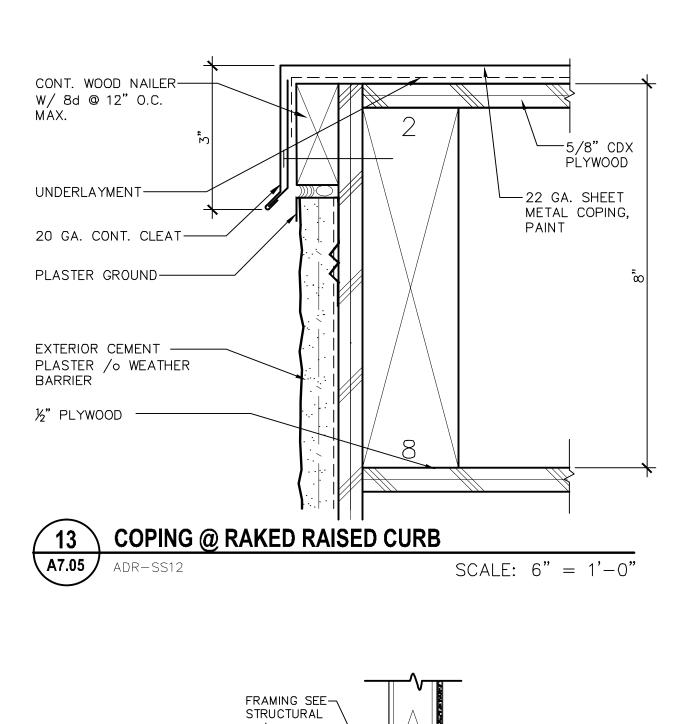


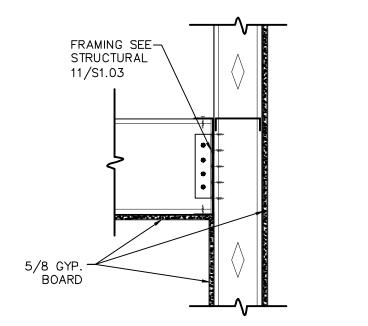
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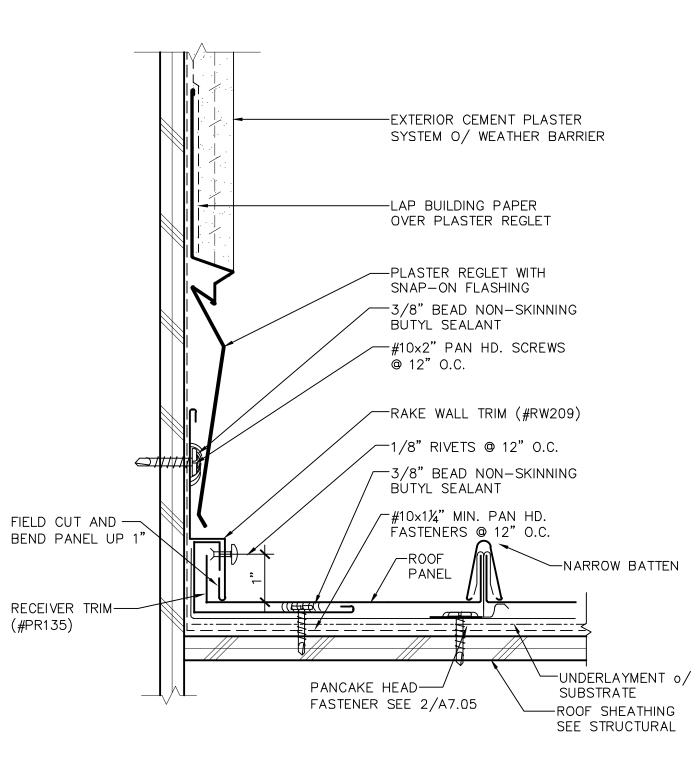
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A7.04

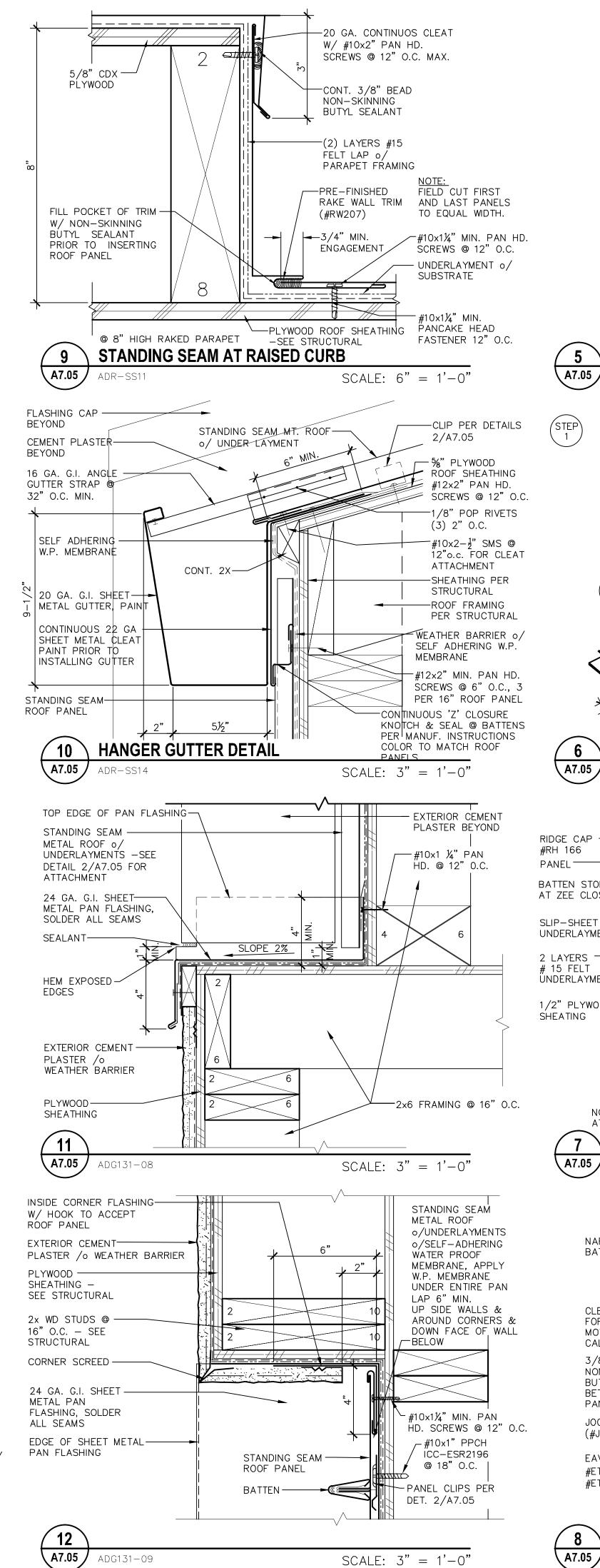


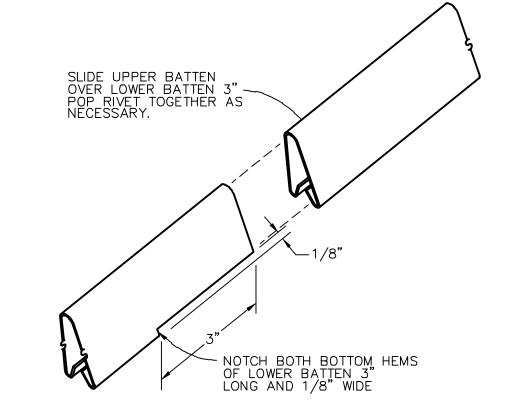


TYP. FRAMING DETAIL ∖ A7.05 *∫* ADR134-01 SCALE: 1" = 1'-0"

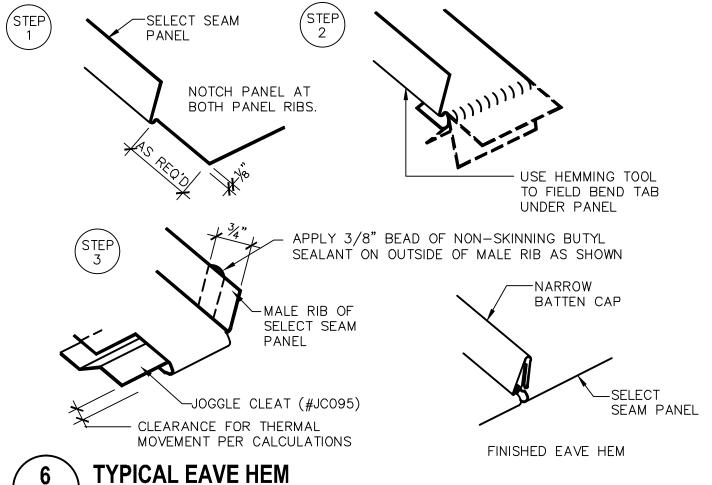


STANDING SEAM AT SIDEWALL A7.05 NTS





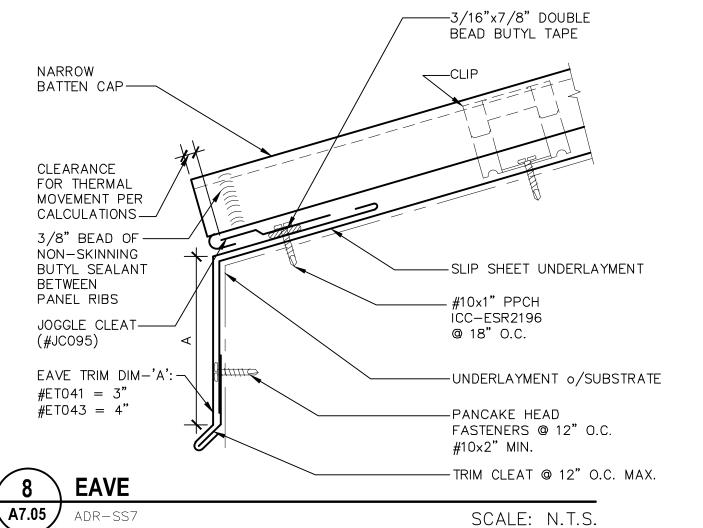
BATTEN LAP ∖ A7.05 NO SCALE



INSTALLATION NOTES:

— ZEE CLOSURE MUST BE CONTINUOUS ---NON-SKINNING BUTYL SEALANT AT -FILL ALL GAPS - BATTEN MUST STOP AT OUTSIDE FACE RIDGE CAP OFF ZEE CLOSURE AND NOT PASS THROUGH #RH 166 -3/16"x7/8" CONTINUOUS DOUBLE PANEL — BEAD BUTYL TAPE BATTEN STOPS -1/8" RIVET @ 12" O.C. AT ZEE CLOSURE-TEE CLOSURE (#ZC216) SLIP-SHEET-UNDERLAYMENT 2 LAYERS # 15 FELT SLOPE 3½ ÜNDERLAYMENT EQUALLY SPACED SPAX POWER LAG T-STAR 1/2" PLYWOOD-PANCAKE HEADSCREWS, SHEATING -RIDGE CAP ICC-ES ESR-1782 (3) FOR 16" WIDE PANELS CONTINUOUS ZEE CLOSURE TRIM (#ZC216) NOTCHED FOR RIB ONLY NON-SKINNING BUTYL SEALANT AT ENDS, FILL ALL GAPS 3/16"x7/8" CONTINUOUS DOUBLE BEAD BUTYL TAPE RIDGE / HIP A7.05 SCALE: 3" = 1'-0"ADR-SS2

ADR-SS4



SELECT SEAM (NARROW BATTEN): 1'-4" FACTORY INSTALLED SEALANT ----NARROW BATTEN CAP PANEL CLIP -----2-LAYERS #15 FELT UNDERLAYMENT 24GA PANEL-SLIP SHEET UNDERLAYMENT— ICC-ESR2196 @ 18" O.C. −‰" PLYWOOD ROOF SHEATHING

APPROVED UNDER UES #ER-0309

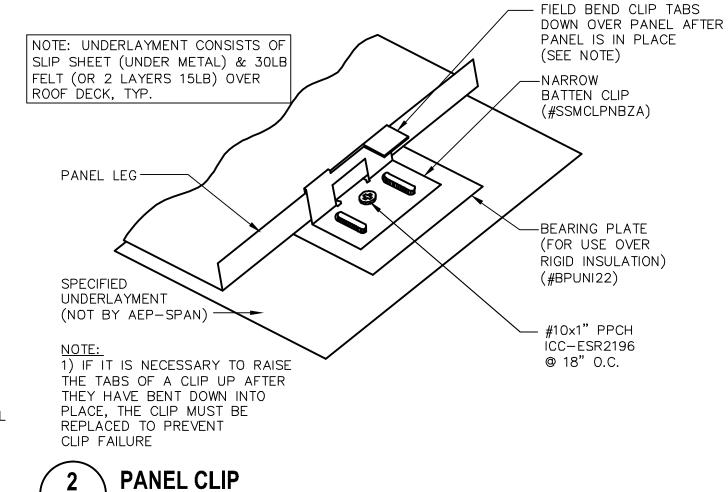


∖ A7.05 *∫*

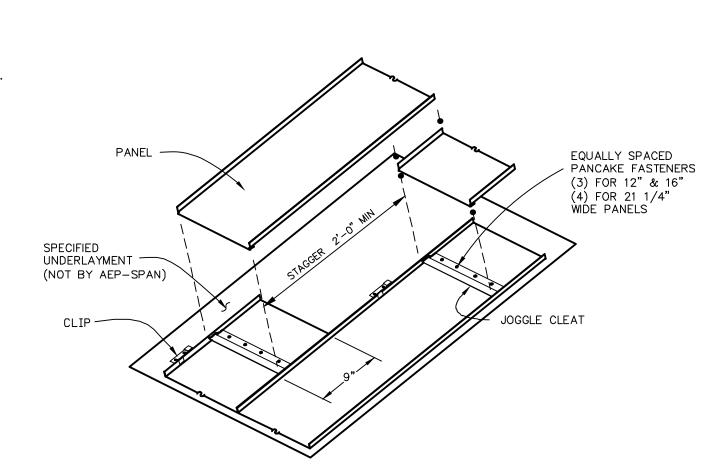
ADR-SS6

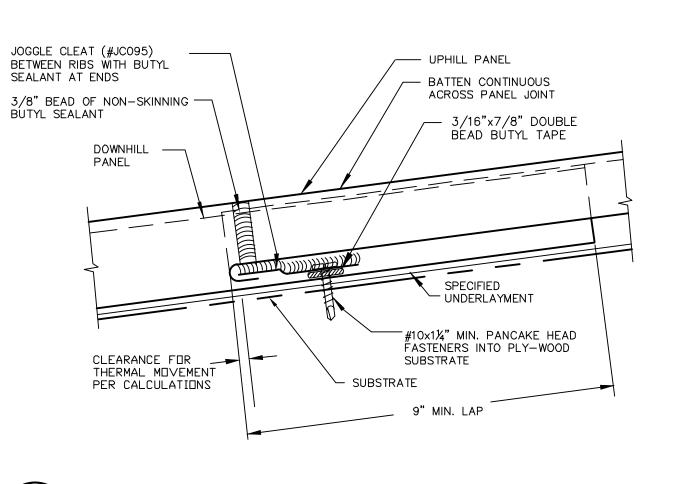
NO SCALE

SCALE: 3'' = 1'-0''



SCALE: 1' = 1' - 0"





STANDING SEAM PANEL LAP ∖ A7.05 */* NO SCALE

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BAKERSFIELD CITY SCHOOL **DISTRICT**

1300 BAKER STREET BAKERSFIELD, CA 93305

Project Name:

WELLNESS CENTER

Project Address: **WELLNESS** CENTER

1100 CITADEL STREET BAKERSFIELD, CA 93307



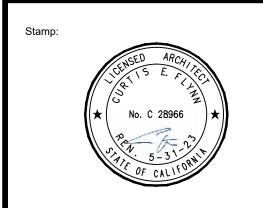
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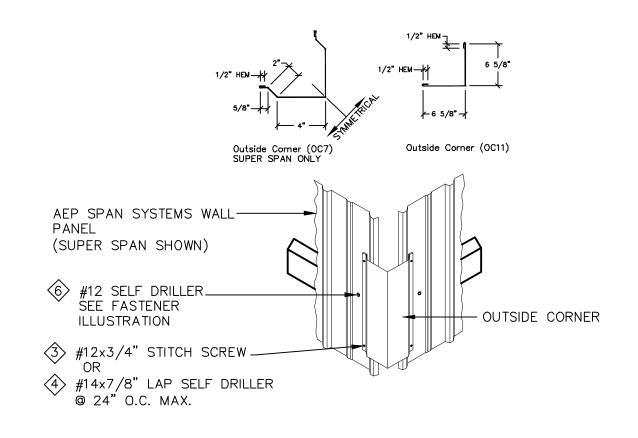
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EXTERIOR DETAILS

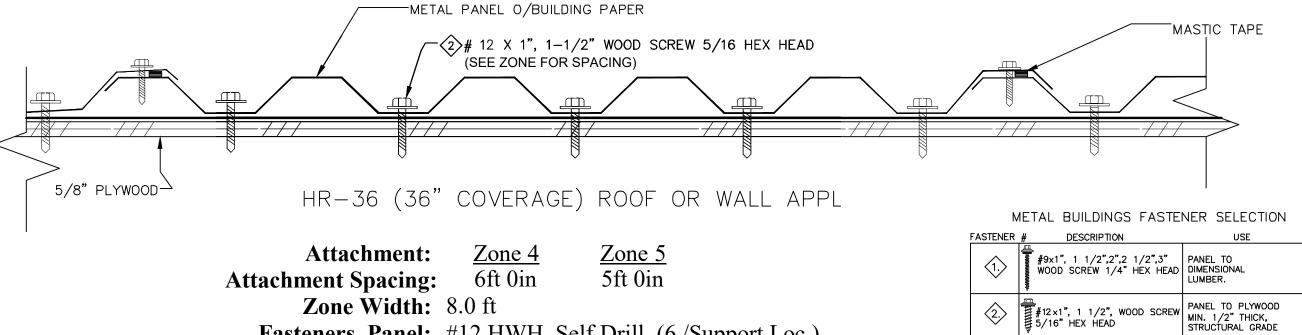
5527

Sheet No.: A7.05

telease: DSA BACKCHECK G:\2022frs\22-5527 MLK WELLNESS CENTER\Sheets SEAN PARKER



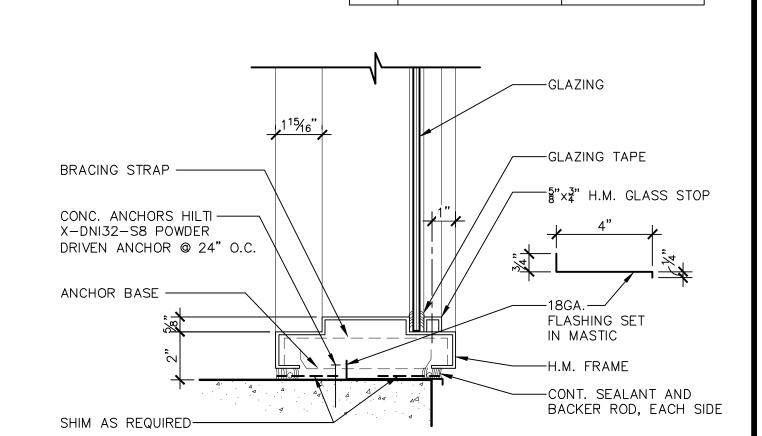
METAL FASCIA PANEL OUTSIDE CORNER A7.06 SCALE: 3" = 1'-0"ADW133-02



Zone Width: 8.0 ft

Fasteners, Panel: #12 HWH, Self Drill. (6 /Support Loc.)

METAL FASCIA PANELS A7.06 ADW133-01 SCALE: 3'' = 1'-0''



#12x3/4" STITCH SCREW 1/4"

HEX HEAD (COMPATIBLE WITH

#10 WOOD SCREW)

TRIM AND SIDE LAP
ATTACHMENTS

4. #14x7/8" LAP SELF DRILLER
5/16" HEX HEAD (COMPATIBLE WITH #14 WOOD SCREW)

TRIM AND SIDE LAP ATTACHMENTS

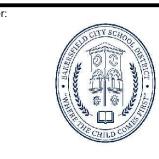
6. FANEL TO PURLIN OR DECK ATTACHMENTS

TRIM TO TRIM OR TRIM TO PANEL ATTACHMENTS

STST-42
STAINLESS STEEL
RIVET 1/8 x 1/8



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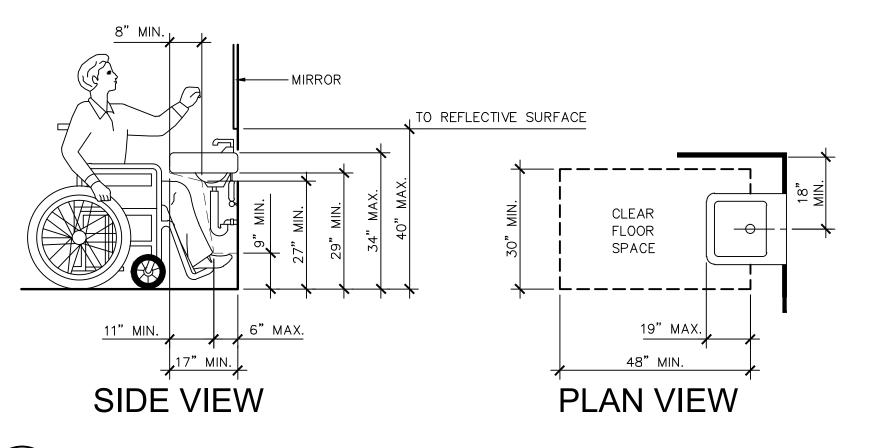


Sheet Title:

EXTERIOR DETAILS

5527

A7.06



NOTES:

FINISHED WALL

1−1/4" MIN.—

OUTSIDE DIA.

2" MAX.

- 1. NO SHARP OR ABRASIVE SURFACES SHALL BE PRESENT UNDER LAVATORIES.
- 2. ALL PIPES UNDERNEATH LAVATORIES SHALL BE INSULATED TO PROTECT AGAINST CONTACT FROM THE PERSONS USING THE FIXTURE. (REFER TO SPECIFICATIONS)
- 3. THE LOWER REFLECTIVE EDGE OF MIRRORS SHALL NOT EXCEED 40 INCHES ABOVE THE FINISHED FLOOR.
- 4. ACCEPTABLE FAUCETS SHALL INCLUDE PUSH ELECTRONIC AND LEVER MECHANISM. FAUCETS WITH SELF-CLOSING VALVES SHALL REMAIN OPEN FOR NO LESS THAN 10 SECONDS. SEE PLUMBING DRAWINGS.
- 5. ACCESIBLE FAUCET CONTROLS SHALL BE PUSH TYPE WITH 5 LBS MAX. OPERATING FORCE.

REFER TO CBC TABLE

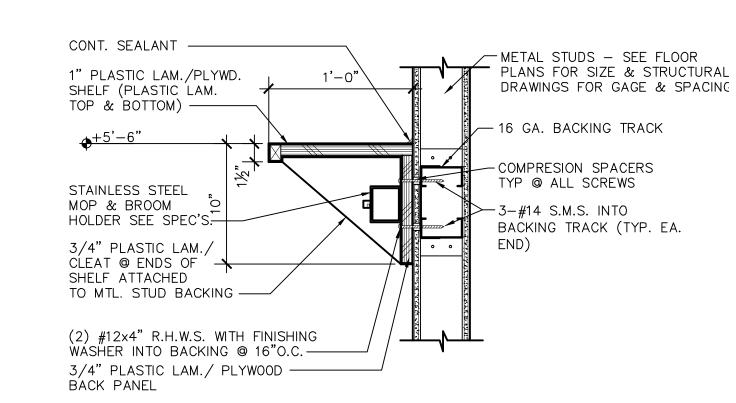
FOR CHILDREN'S USE

SUGGESTED DIMENSIONS

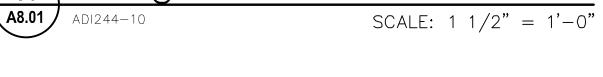
11B-604.9 FOR

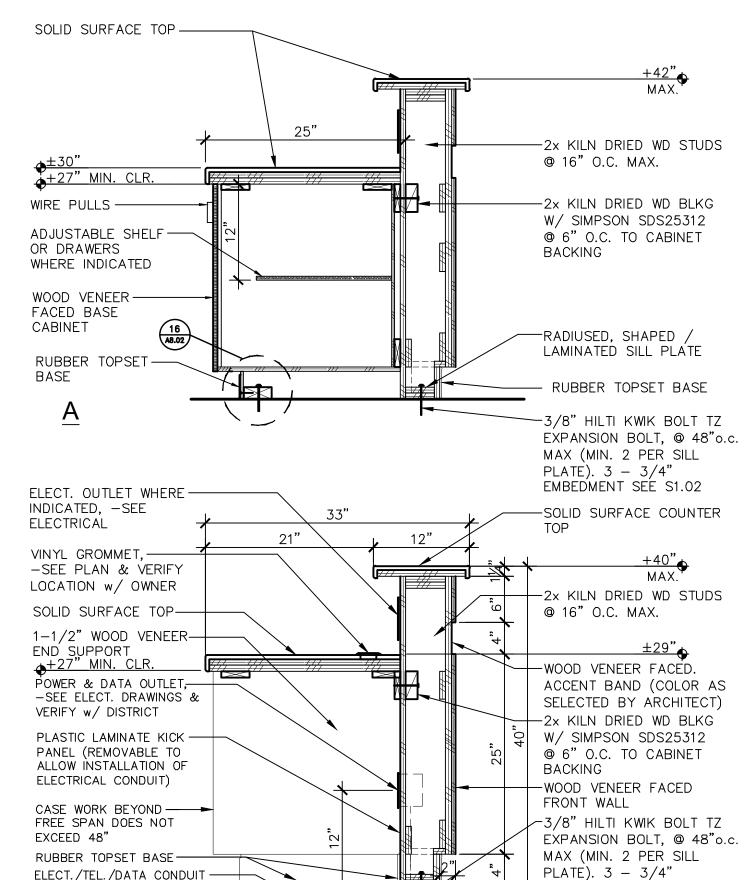
KNEE AND TOE CLEARANCE @ ACCESSIBLE LAVATORY A8.01

SCALE: 1/2" = 1'-0"



DETAIL @ JANITORS SHELF / MOP HOOKS





EMBEDMENT SEE S1.02

SCALE: 1" = 1'-0"

RECEPTION / CIRCULATION COUNTER

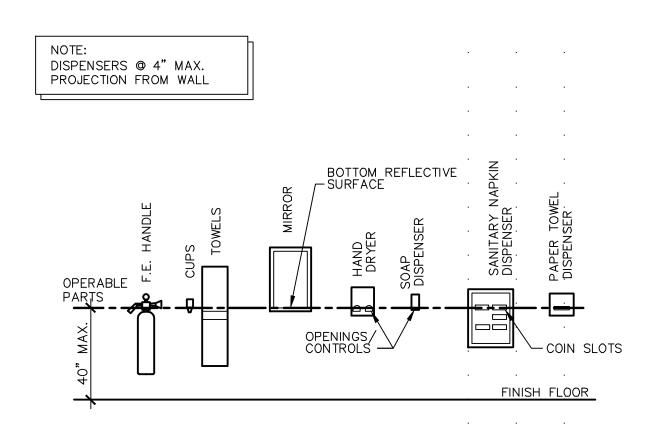
WHERE OCCURS (VERIFY IN

A8.01

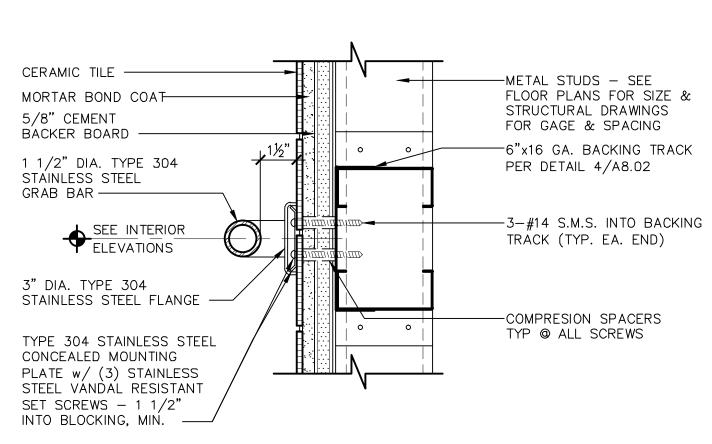
FIELD)

 \mathbf{O} 36" GRAB BAR ——— URINAL PROTRUDING ─── 42" MIN. — FLUSH CONTROLS OBJECT GRAB BAR PER CBC 54" MIN 11B-605.4 SECTION THRU CIRCULAR GRAB BAR 24" MIN. MAX. 7"_MIN._ 9"-MAX. TOILET PAPER -DISPENSER MIN MAX GRIF FACE 17" MIN., 19" MAX. T.O. SEAT SEAT HEIGHT-FINISH FLOOR —

ACCESSIBLE FIXTURE & W/C COMPARTMENT MOUNTING HTS A8.01 SCALE: 1/2" = 1'-0"

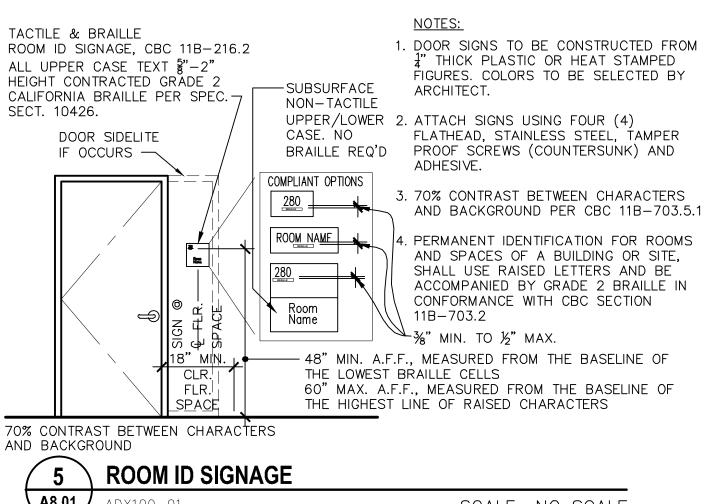


ACCESSIBLE MOUNTING HTS FOR TOILET RM ACCESSORIES **∖** A8.01 SCALE: 1/2" = 1'-0"ADA200-13



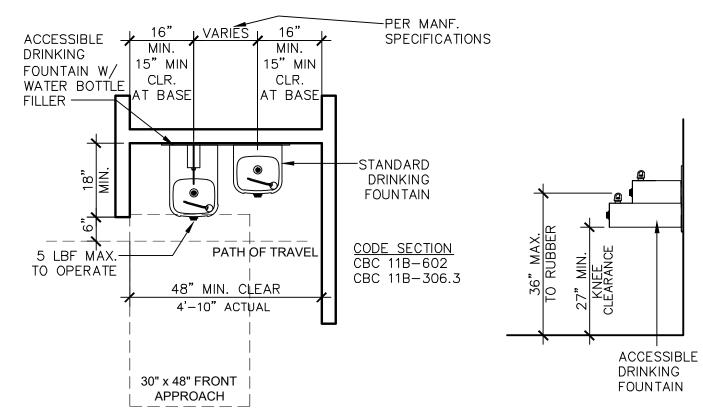
GRAB BAR ANCHORAGE A8.01

SCALE: 3'' = 1'-0''

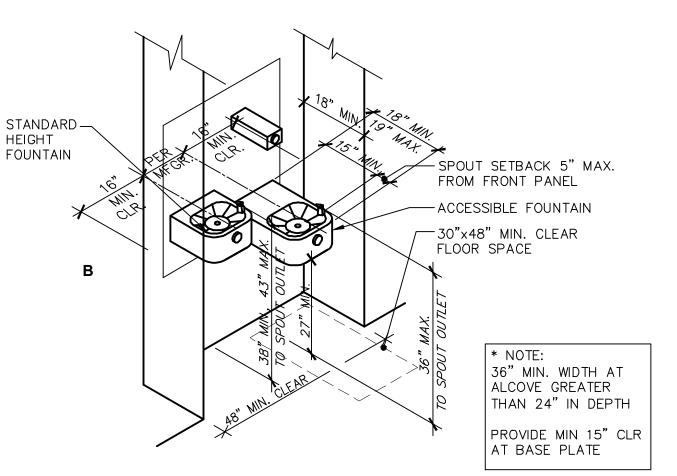


A8.01 ADX100-01 SCALE: NO SCALE EXISTING CERAMIC TILE WALL FINISH -PLASTIC LAMINATE TOP AND NEW MIRROR TO SPLASH, SELF-EDGED ON 3/4" MATCH EXISTING PARTICLE BOARD -VERIFY DEPTH IN FIELD SEE DETAIL 8/A8.02 +40" FOR HEIGHT MAX A.F. DIMENSIONS AND FOR CBC 11B.306.3 2" FIELD VERIFY COMPLIANCE CLEARANCES -MATCH EXISTING SPLASH HEIGHT RIM OF SINK ABOVE COUNTER +34" A.F.F. VERIFY SINK PROFILE WITH REQUIRED CLEARANCES

PLASTIC LAMINATE COUNTERTOR **A8.01** SCALE: $1 \frac{1}{2} = 1'-0''$



NOTES: BUBBLER: WATER STREAM TO BE PARALLEL TO FRONT EDGE OF DRINKING FOUNTAIN. SPOUT: 4" HIGH WATER FLOW FOR INSERTION OF CUP OR GLASS



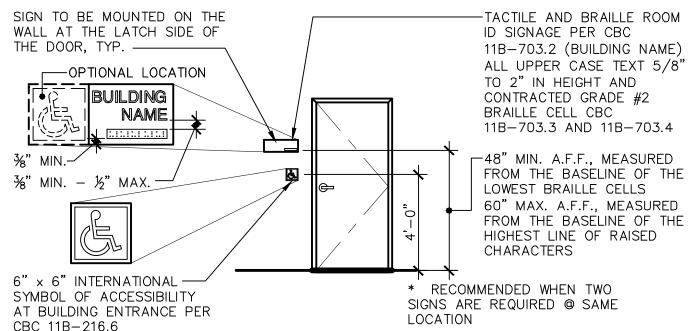
HI-LOW DRINKING FOUNTAIN A8.01

SCALE: 1' = 1' - 0"

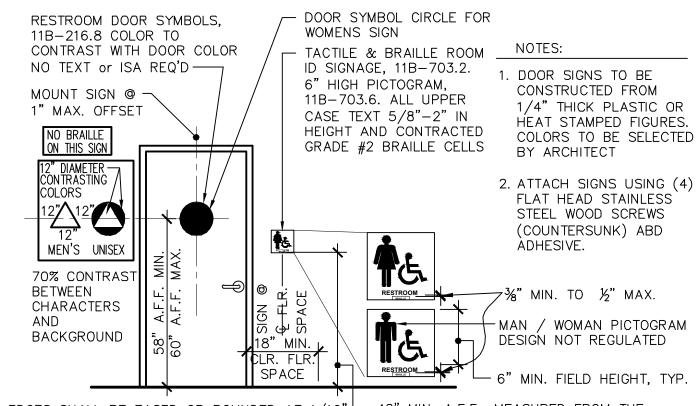
BY ARCHITECT.

1. DOOR SIGNS TO BE CONSTRUCTED FROM 1/4" THICK PLASTIC OR HEAT STAMPED FIGURES. COLORS TO BE SELECTED ATTACH SIGNS USING FOUR (4) FLATHEAD, STAINLESS STEEL, TAMPER PROOF SCREWS (COUNTERSUNK) AND ADHESIVE. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH AND CONTRAST WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. CBC 11B-703.5.1.

4. ISA SYMBOL CAN ALSO BE PLACED ON DOOR. THE LOCATION IS NOT REGULATED.







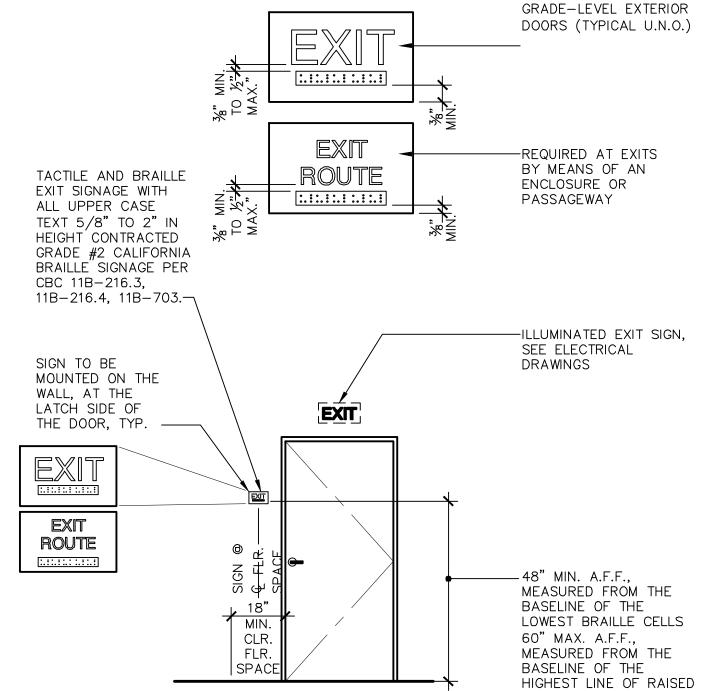
EDGES SHALL BE EASED OR ROUNDED AT 1/16" - 48" MIN. A.F.F., MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS (1.59mm) MIN. OR CHAMFERED 60" MAX. A.F.F., MEASURED FROM THE AT 1/8"(3.2mm) MAX. VERTICES SHALL BE BASELINE OF THE HIGHEST LINE OF RAISED RADIUSED BETWEEN 1/8" (3.2mm) MIN. AND 1/4"

ACCESSIBLE RESTROOM SIGNAGE

、A8.01 / SCALE: 1' = 1' - 0''

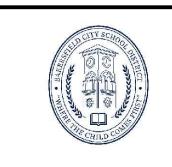
DOOR SIGNS TO BE CONSTRUCTED FROM 1/4" THICK PLASTIC OR HEAT STAMPED FIGURES. COLORS TO BE SELECTED BY ARCHITECT.

2. ATTACH SIGNS USING FOUR (4) FLATHEAD, STAINLESS STEEL, TAMPER PROOF SCREWS, (COUNTERSUNK,) AND ADHESIVE



TYPICAL EXIT SIGNAGE A8.01

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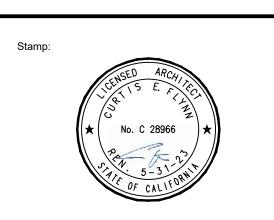
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Sheet Title:

INTERIOR DETAILS

5527

Sheet No.:

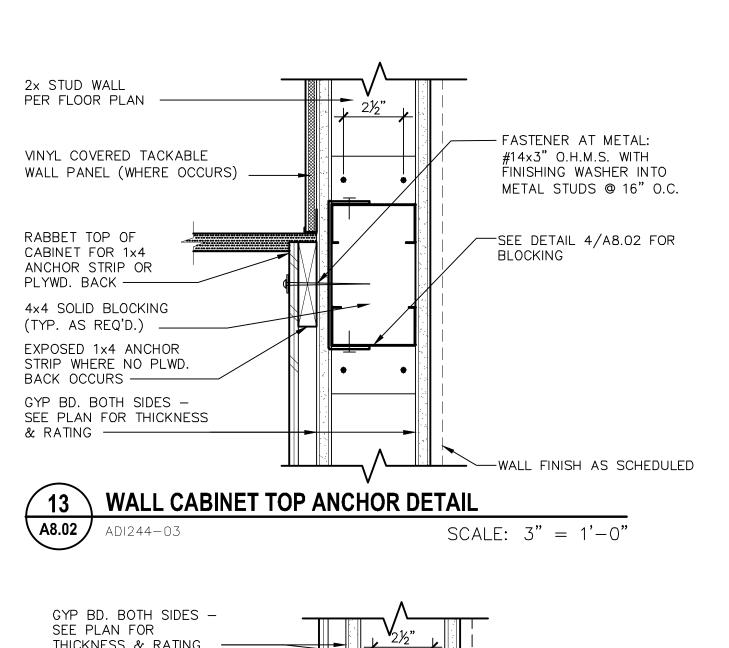
A8.01 telease: DSA BACKCHECK

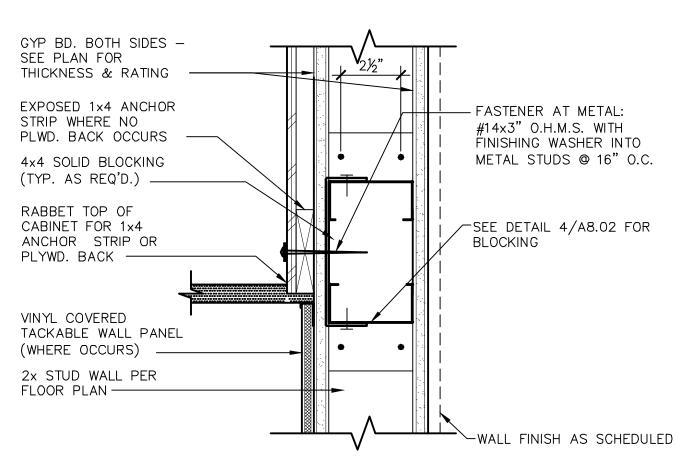
SCALE: 3/8" = 1'-0"

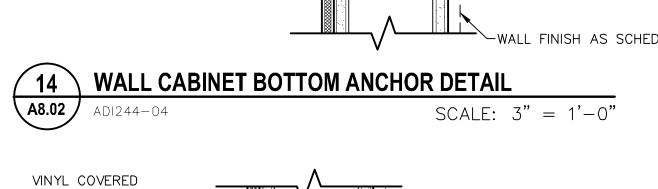
CHARACTERS

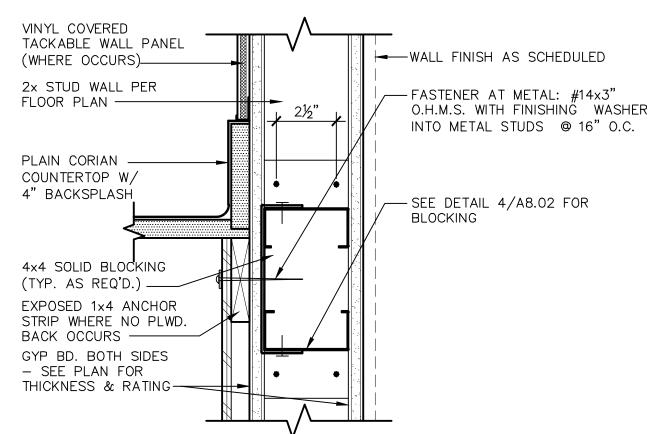
G:\2022frs\22-5527 MLK WELLNESS CENTER\Sheets SEAN PARKER

REQUIRED AT EXITS AT

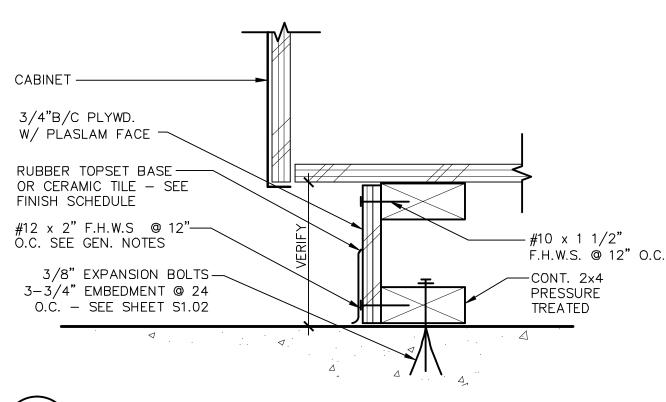


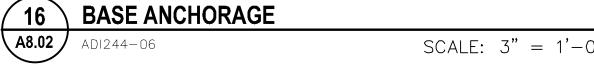


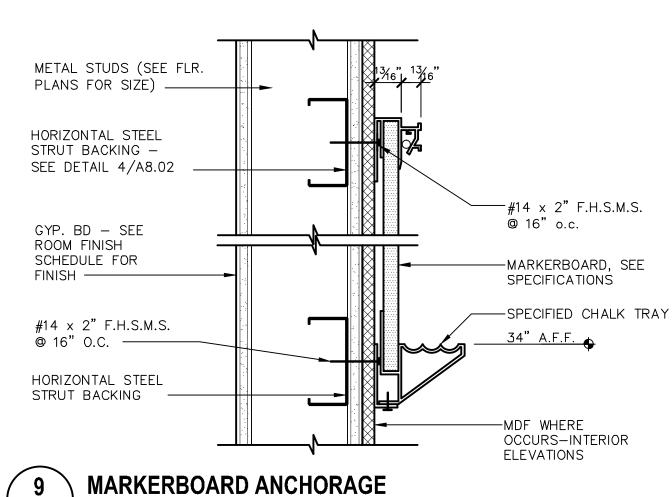




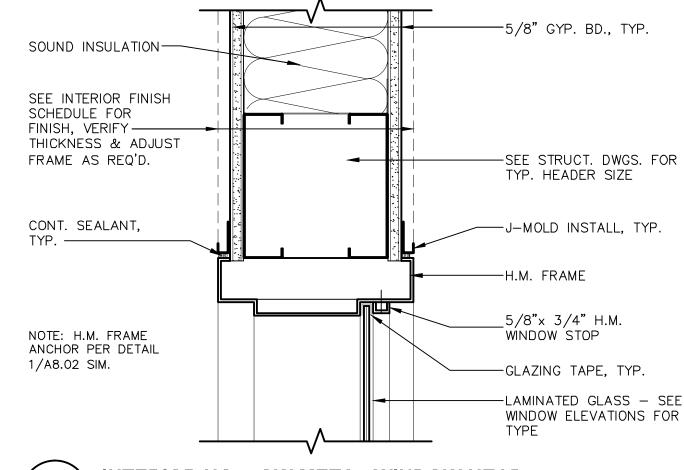




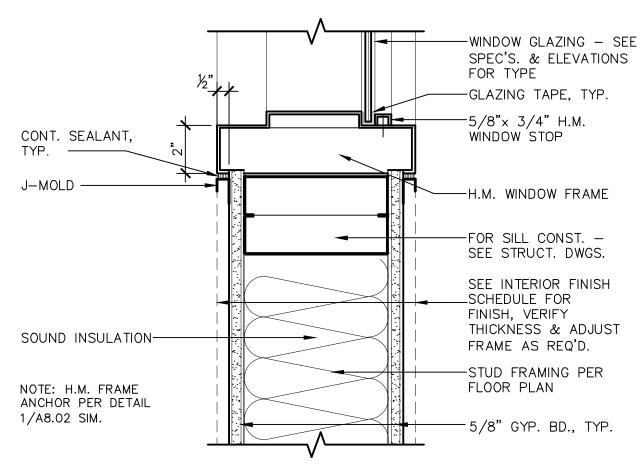




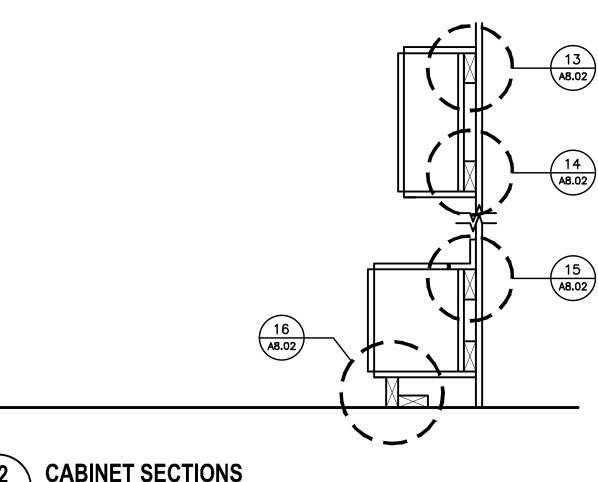
∖ A8.02 SCALE: 3'' = 1'-0''



INTERIOR HOLLOW METAL WINDOW HEAD A8.02 SCALE: 3'' = 1'-0''

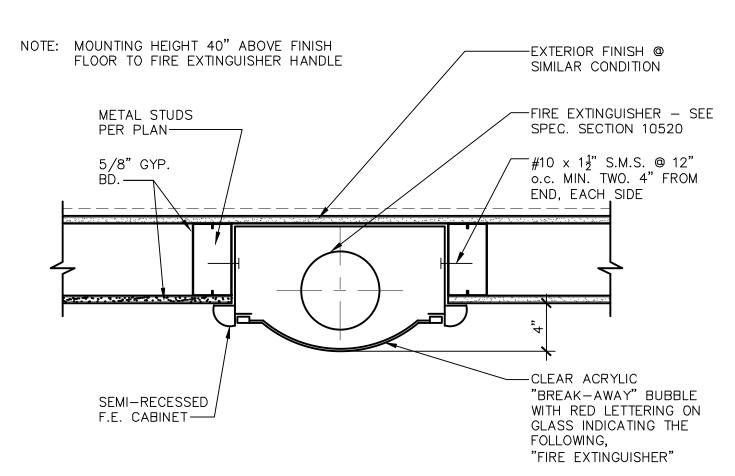


INTERIOR WINDOW SILL (JAMB SIM.) √ A8.02 SCALE: 3" = 1'-0"ADG230-03

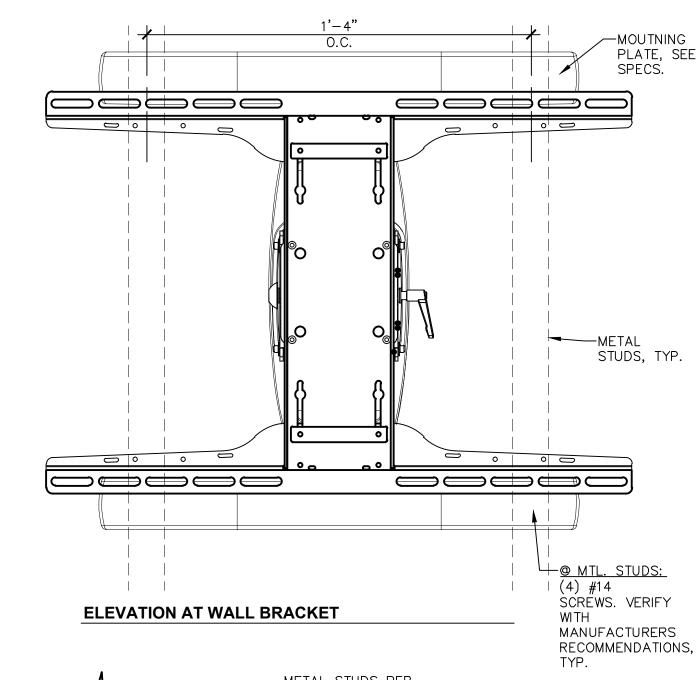


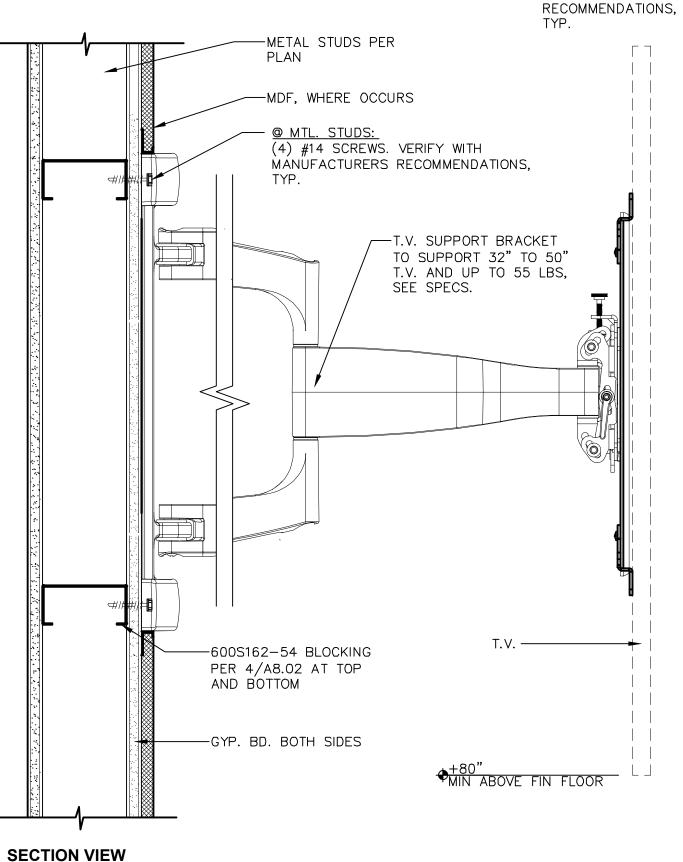
CABINET SECTIONS SCALE: 3'' = 1'-0''

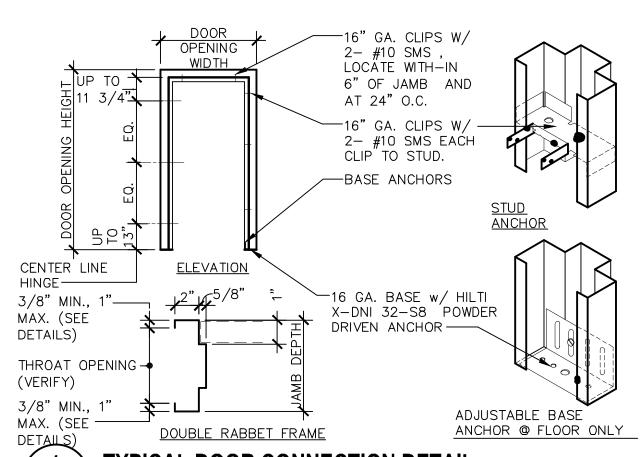
FLAT PANEL T.V. SUPPORT SCALE: 3'' = 1'-0''**A8.02**



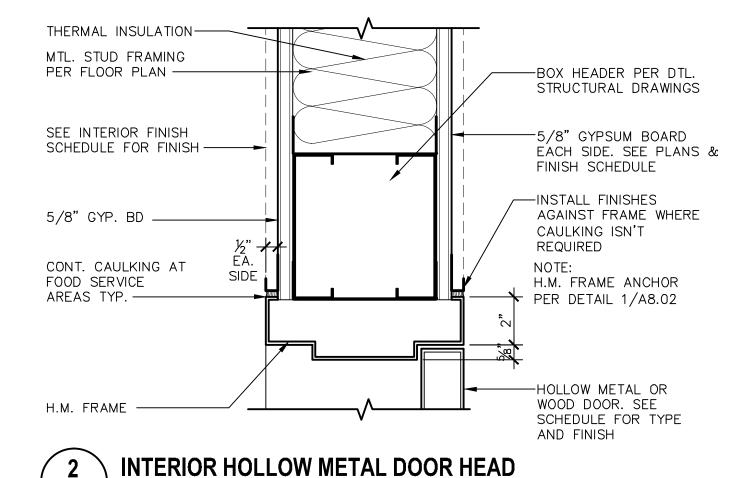
SEMI-RECESSED F.E. CABINET @ NON-RATED WALLS **A8.02** SCALE: $1 \frac{1}{2} = 1'-0''$

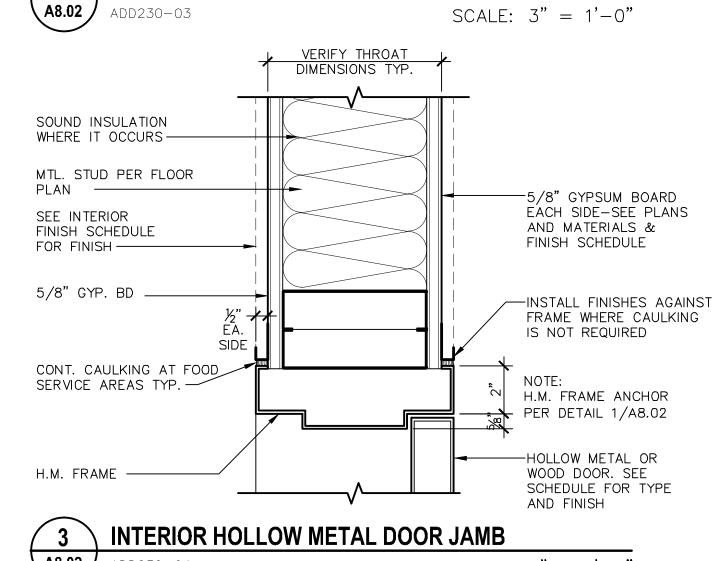


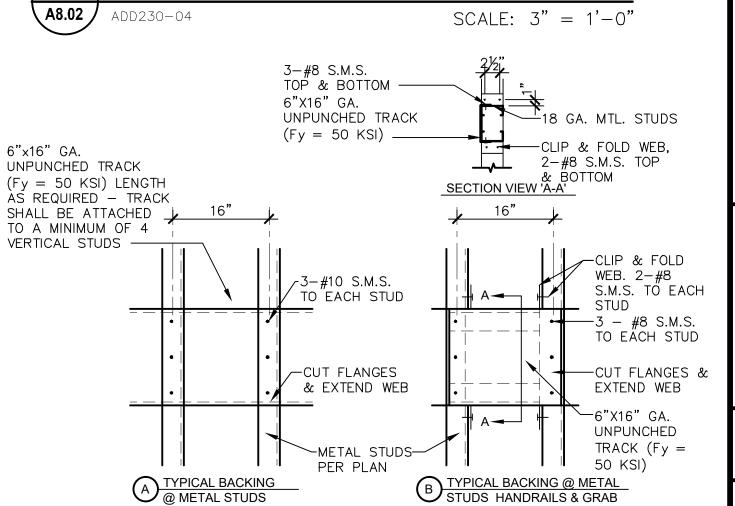




TYPICAL DOOR CONNECTION DETAIL **√**8.02 / SCALE: 1/4" = 1'-0"







SOLID BLOCKING FRAMING ELEV. @ METAL STUDS ∖ A8.02 */* SCALE: 3/4" = 1'-0"

APP: 03-122605 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗹 DATE: 05/11/2023

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC



BAKERSFIELD CITY SCHOOL **DISTRICT**

1300 BAKER STREET BAKERSFIELD, CA 93305

WELLNESS CENTER

Project Address:

DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL

1100 CITADEL STREET BAKERSFIELD, CA 93307



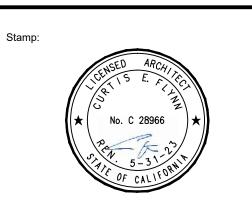
designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

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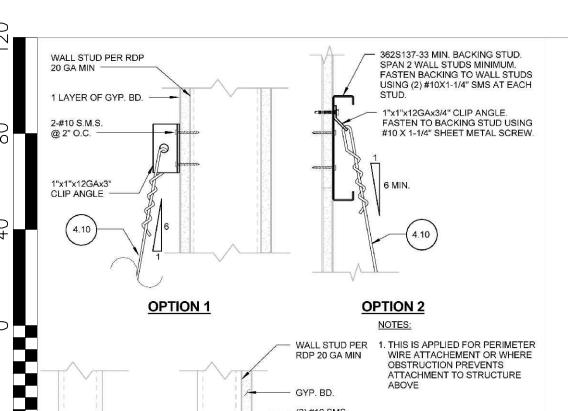
INTERIOR DETAILS

5527

Sheet No.: A8.02

Release: DSA BACKCHECK G:\2022frs\22-5527 MLK WELLNESS CENTER\Sheets SEAN PARKER

SCALE: 3" = 1'-0"A8.02 ADI244-02



TO FRAMING

— (1) #10 SMS

(FOR NOTES

THRU GYP.)

B. "THRU GYP"

OPTION 3

THREE 1-1/2" X 9 GA. STAPLES

WHEN FIRE RATED GYP. BOARD IS

Sheet Title: HANGER WIRE CONNECTION TO SAWN

INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO

INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP

BOARD AND MEET MIN. PENETRATION.

HANGER WIRE CONNECTION TO

Basis Document: DSA IR 25-2.13

WOOD I JOIST

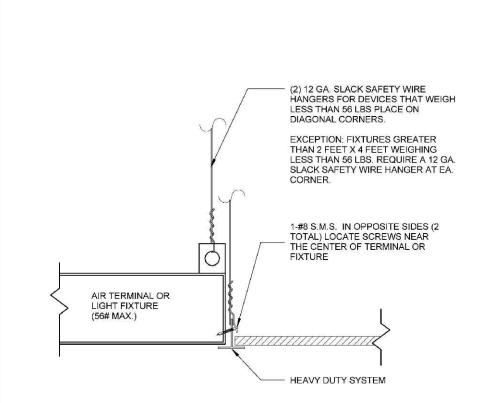
BOARD AND MEET MIN. PENETRATION.

OR 3-STRONGHOLD "J" NAILS AT EACH WIRE LOOP

COMPRESSION STRUT TABLE

EMT COMPRESSION STRUT	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	3'-11"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	6'-4"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9'-9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12'-9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14'-9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18'-10"

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250137-43	8'10"
400S137-43	10'-10"



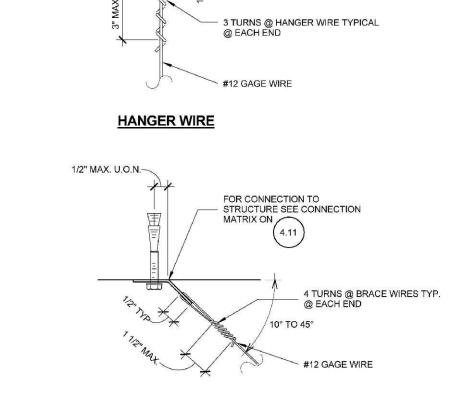
02-10-16

	6'-0" MAX		TTACHED MAX	ATTACHED JOINT
6' - 0" MAX				2.35 Typical
XX (2.60)		144 SQ FT MAX	>	2.60 ATTACHED JOINT CROSS RUNNERS
FREE JOINT		1		MAIN RUNNERS BRACING WIRE LOCATION-TYP
6' - 0" MAX				STABILIZER BARS, CROSS TEES OR STRUTS 8" MAX. FROM WALL TYP. ALONG FREE JOINTS
	FREE	CONT ANGL	(2.60) FREE JOINT E @ PERIMETER	
	NOTE:			

BRACING WIRES AND COMP. STRUT SHALL OCCUR

AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT

i i	Basis Document: DSA IR 25-2.13	Sheet No:	Basis Document : DSA IR 25-2.13			Sheet No:	
19	Sheet Title: HANGER WIRE CONNECTION TO METAL STUD WALL	4.24	Sheet Title: COMPRESSION STRUT TABLE	rev.	09-21-15 03-10-17	3.21	
	GYP. BOARD WHERE OCCURS (SEE NOTE 1) 1/4" DIA. CI EYE SCRE		3" MAX.	MATRIX ON 4	4.11 ANGER WIRE TYPICAL		



BRACING WIRE

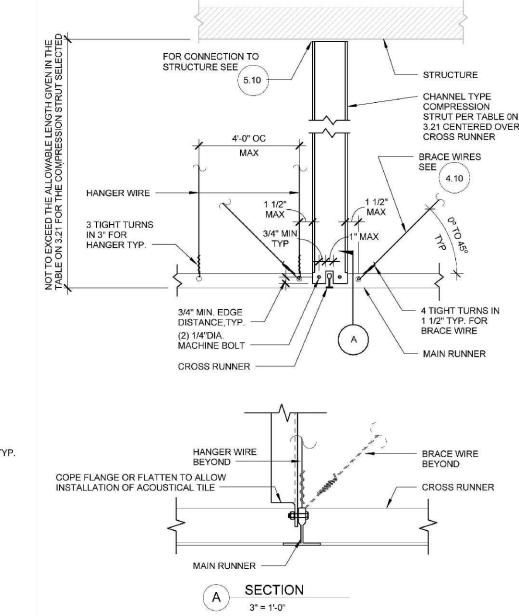
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Basis Document: DSA IR 25-2.13

HANGER AND BRACING WIRE

HANGER AND BRACING WIRE

CONNECTION - TYPICAL WIRE TURNS



SUSPENDED ACOUSTICAL CEILING -

CHANNEL TYPE STRUT

Basis Document: DSA IR 25-2.13

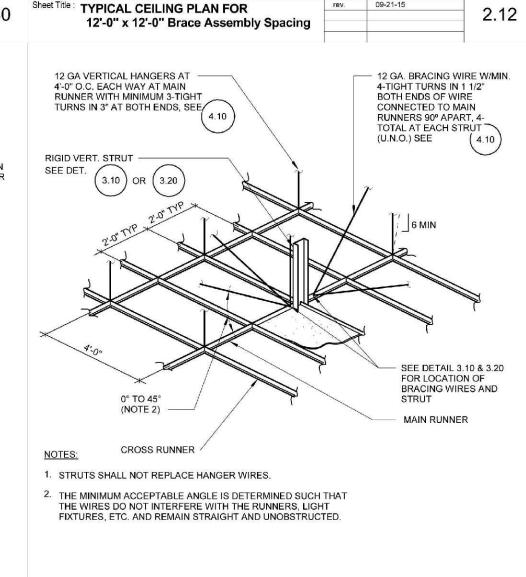
SUSPENDED ACOUSTICAL CEILING -

Basis Document: DSA IR 25-2.13

SUPPORT DETAIL

SUSPENDED ACOUSTICAL CEILING -

LIGHT FIXTURES/ AIR TERMINAL



Basis Document : DSA IR 25-2.13

SUSPENDED CEILING - SUSPENSION

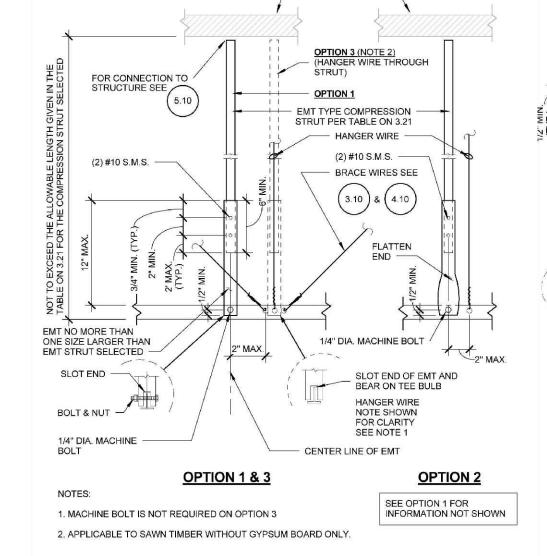
1/4" DIA. CLOSED SCREW EYE WITH 1-1/2" MIN. PENETRATION AT BOTTOM FLANGE

DRILLED HÖLE -

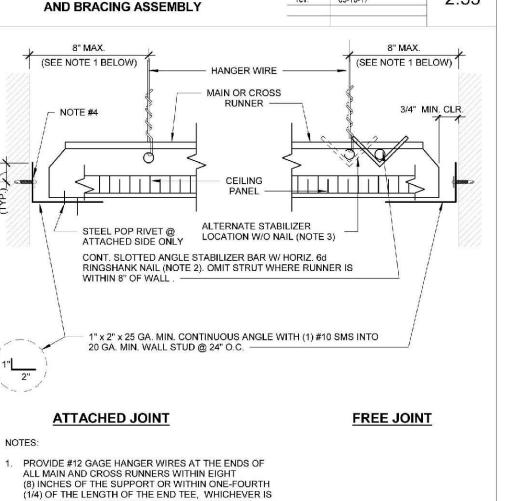
HANGER WIRE

JOIST OR RAFTER

STRUCTURAL CONDITION OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACING WIRE DETAIL
METAL DECK	4.20	4.30
CONCRETE OVER METAL DECK	4.21	4.31
CONCRETE SLAB, BEAM, OR JOIST	4.22	4.32
STRUCTURAL STEEL	4.23	4.33
METAL STUD WALL	4.24	4.34
SAWN TIMBER	4.25, 4.2 9	4.35
WOOD I JOIST	4.26	4.36, 4.37
WOOD CHORD TRUSS	4.27, 4.29	4.38, 4.29
OPEN WEB STEEL JOIST	4.28, 4.29	4.39, 4.29



STRUCTURE



	ATTACHED JOINT	FREE JOINT
NC	TES:	
1.	PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.	
2.	NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.	CHANNEL
3.	STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.	(STABILIZER BAR) RUNNER APPROVED STABILIZER
4.	(1) #10 SMS TO 20 GA. MIN. WALL STUD @ 24" O.C.	(SEE NOTE 3)
asis	Document : DSA IR 25-2.13	Sheet No

2.60

DSA IR 25-2.13 **CEILING PERIMETER**

CEILING SYSTEM GENERAL NOTES

GENERAL REQUIREMENTS: CBC Section 1616A 1.20 (1616.10.16*) requires the design and installation to be in compliance with ASTM C635, C636, and E580, Section

Note: Amendments in CBC Section 1616A.1.20 (1616.10.16*) replace and append The requirements in this IR apply to flat and level ceiling systems whose total weight,

including ceiling mounted air terminals, services and light fixtures, does not exceed fou (4) psf. Heavier systems, systems that are not flat and level, those supporting lateral loads from partitions, and free floating ceilings supported by chains or cables are beyond the minimum requirements of this IR and will require special design and details.

CEILING DESIGN & INSTALLATION REQUIREMENTS: 2.1 Ceiling System Components:

- a) Shall comply with ASTM C635 and Section 5.1 of ASTM E580.
- b) The ceiling grid system must be rated heavy duty as defined by ASTM C635.
- c) Main runners, cross runners, splices, expansion devices and intersection connectors shall be designed to carry a mean ultimate test load of not less than 180 lbs. in compression and tension per ASTM E580 Section 5.1.2.
- d) Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum tensile strength = 70 ksi. The maximum allowable (ASD) tension load for wire meeting this specification is 350 lbs. • Four (4) turns of the wire within 1.5" will develop the wire allowable load Three (3) turns of the wire within 3" is assumed to develop no more than 50 percent of wire allowable load.

- a) Shall comply with ASTM C636 and Section 5.2 of ASTM E580.
- b) #12 gauge hanger wires may be used for up to and including a 4 foot by 4 foot grid spacing and shall be attached to main runners. Splices in hanger wires shall develop 50 percent of the wire allowable load.
- Provide #12 gauge hanger wires at the ends of all main and cross runners within eight (8) inches of the support or within one-fourth (1/4) of the length of the end tee, whichever is least, for the perimeter of the ceiling area. Perimeter wires are not required when the length of the end tee is eight (8) inches or less.
- Ceiling grid members shall be attached to two (2) adjacent walls per ASTM E580 Section 5.2.3. Ceiling grid members shall be at least 3/4 inch clear of other walls. If walls run diagonally to ceiling grid system runners, one end of main and cross
- runners should be free, and a minimum of 3/4 inch clear of wall. e) The width of the perimeter supporting closure angle shall be not less than two (2) inches. Use of angles with smaller widths in conjunction with proprietary perimeter clips may be acceptable in accordance with Section 5 of this IR

Sheet No:

- Where, as defined in ASCE 7, Section 13.3.1: z =height in structure of point of attachment of ceiling with respect to the base. h = average roof height of the structure with respect to the base.
 b. It shall be permitted to use the brace assembly spacing for "z/h > 0.5" for the full
- 2.4 Attachment of Hanger and Bracing Wires: a) Faster hanger wires with not less than three (3) tight turns in three (3) inches.
- Hanger wire loops shall be tightly wrapped and sharply bent to prevent any vertical movement or rotation of the member within the loops (see ASTM E580,
- b) Faster bracing wires with not less than four (4) tight turns in one and one-half (1-
- c) 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.). d) Separate all ceiling hanger and bracing wires at least six (6) inches from all
- unbraced ducts, pipes, conduit, etc. e) Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to: piping, ductwork, conduit and equipment. Provide trapeze or other supplementary support members at obstructions to allow typical
- hanger spacing. Brace assemblies must be configured and/or located in order to avoid obstructions in addition to maintaining the required brace assembly
- Provide additional hangers, struts and brace assemblies as required at all ceiling breaks, soffits or discontinuous areas Hanger wires that are more than one (horizontal) in six (vertical) out of plumb
- Note: See ASTM C636, Figure 1, for counter-sloping methods.
- Attachment of the bracing wires to the structure above and to the main runners shall be adequate for the load imposed. The weight (Wp) shall be taken as not less than four (4) psf for calculating seismic forces (Fp).
- i) Post-installed anchors (e.g. expansion anchors, screw anchors and power actuated fasteners) shall have a current Evaluation Report acceptable to DSA in
- Power actuated fasteners in concrete are not permitted for bracing wires.
- c) Light fixtures weighing less than or equal to 10 lbs. shall have a minimum of one

(1) #12 gauge slack safety wire connected from the fixture housing to the

Exception: All light fixtures greater than two by four feet weighing less than 56

- d) Light fixtures weighing greater than 10 lbs. 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 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.
- lbs. shall have a #12 gauge slack safety wire at each corner. e) All light fixtures weighing greater than 56 lbs. shall be independently supported by not less than four (4) taut #12 gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved nangers. The four (4) taut #12 gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four (4)

- a) 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 to resist a horizontal force equal to the weight of the attachments are required at each component.
- b) Ceiling-mounted air terminals or other services weighing less than or equal to 20 lbs. shall have one (1) #12 gauge slack safety wire attached from the terminal or service to the structure above.
- Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 lbs. but less than or equal to 56 lbs. shall have two (2)
- #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
- d) Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 lbs. shall be supported directly from the structure above by not less than four (4) taut #12 gauge hanger wires attached from the termina #12 gauge wires or other approved hangers, including their attachment to the structure above, must be capable of supporting four (4) times the weight of the

2.6.3 Other Devices within the Ceiling:

All lightweight miscellaneous devices, such as strobe lights, occupancy sensors speakers, exit signs, etc., shall be attached to the ceiling grid per Section 2.6.2 a) of this IR. In addition, devices weighing more than 10 lbs. shall have a #12 gauge slack safety wire anchored to the structure above per Section 2.6.1 b) of this IR. Devices weighing the registered design professional.

At the perimeter of the ceiling area, where main or cross runners are not connected to the adjacent wall, provide interconnection between the runners at the free end to prevent lateral spreading. A metal stabilizer or a #16 gauge wire with a positive mechanical connection to the runner may be used and placed within eight (8) inches of the wall. Where the perpendicular distance from the wall to the first parallel runner is eight (8) inches or less, the stabilizer or #16 gauge

2.3 Lateral Force Bracing Assembly Installation:

- a) Lateral force bracing assemblies consisting of a compression strut and four (4) #12 gauge splayed bracing wires oriented 90 degrees from each other are required for all ceiling areas. Exception: Lateral force bracing may be omitted for suspended acoustical ceiling systems with a ceiling area not to exceed 144 square feet, for all
- Section 2.2 of this IR and perimeter walls are designed to carry the ceiling

values of SDS, when perimeter support is provided in accordance with

edge distance shall be 4 feet in the direction of the 8 foot spacing and 6 feet in

The strut shall not be more than one (horizontal) in six (vertical) out of plumb.

- Lateral force bracing assemblies shall be spaced per Table 1 for all values of the component importance factor (Ip) of the ceiling. There shall be a brace assembly a distance of not more than one-half (1/2) of the above spacing from each surrounding wall, expansion joint and at the edges of any ceiling vertical offset. For example, where the brace spacing is 8' x 12', the
- the direction of the 12 foot spacing. d) The slope of bracing wires shall not exceed 45 degrees from the horizontal plane and wires shall be taut. Splices in bracing wires shall develop the wire allowable
- Compression struts shall meet the following requirements:

 The strut shall be sized to adequately resist the vertical component force induced by the ceiling bracing wires and have a maximum kl/r not to exceed 300. The struts listed in Appendix A meet this requirement for ceilings complying with

TABLE LATERAL FORCE BRACE A	•	ING
Design Spectral Acceleration Parameter, Sps	Brace Assemb	ly Spacing (ft.)
	z/h ≤ 0.5°	z/h > 0.5a,b
S ps ≤ 1.15	12 x 12	12 x 12
1.15 < Sps ≤ 1.73	12 x 12	8 x 12
Sns > 1.73	8 x 12	8 x 8

anchors in prestressed concrete. The construction plan shall demonstrate how the location of existing prestressing tendons and strands will be located and denoted as necessary to avoid interference.

- 2.5 Expansion Joints, Seismic Separation Joints: a) Expansion joints shall be provided in the ceiling at intersections of corridors and
- at junctions of corridors and lobbies or other similar areas. b) For ceiling areas exceeding 2,500 square feet, a seismic separation joint shall be provided to divide the ceiling into areas not exceeding 2,500 square feet in accordance with ASTM E580, Section 5.2.9.

k) DSA approval of a construction plan is required prior to installing post-installed

2.6 Ceiling Fixtures, Terminals and Devices

- a) All fixtures, terminals and other devices shall be mounted in a manner that will not compromise ceiling performance in accordance with Section 13.5.6.2.2 Iten 5 of ASCE 7 as amended by CBC Section 1616A.1.20 (1616.10.16*) and ASTM E580 Sections 5.3 and 5.4.
- b) Ceiling panels shall not support any light fixtures, air terminals or devices. c) Penetrations through the ceiling for sprinkler heads and other similar devices that are not integrally tied to the ceiling system in the lateral direction shall have a two (2) inch oversized ring, sleeve or adapter through the ceiling tile to allow free movement of one (1) inch in all horizontal directions. Alternatively, per ASTM E580, Section 5.2.8.5, a flexible sprinkler hose fitting that can accommodate one (1) inch of ceiling movement shall be permitted to be used in lieu of the oversized
- ring, sleeve or adapter. d) Slack safety wires shall be considered hanger wires for installation and testing

2.6.1 Light Fixtures:

- a) All light fixtures** shall be positively attached to the ceiling suspension systems by mechanical means per California Electrical Code (CEC) Article 410.36 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,
- **See Section 3.1 of this IR for pendant-mounted light fixture support and bracing
- b) Surface-mounted light fixtures shall be attached to the main runner with at least two positive clamping devices on each fixture. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches do not comply. A #12 gauge 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 lbs. Maximum spacing between supports shall not exceed eight (8) feet.

APP: 03-122605 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹

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DIV. OF THE STATE ARCHITEC



BAKERSFIELD CITY SCHOOL DISTRICT

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WELLNESS CENTER

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> 1100 CITADEL STREET BAKERSFIELD, CA 93307



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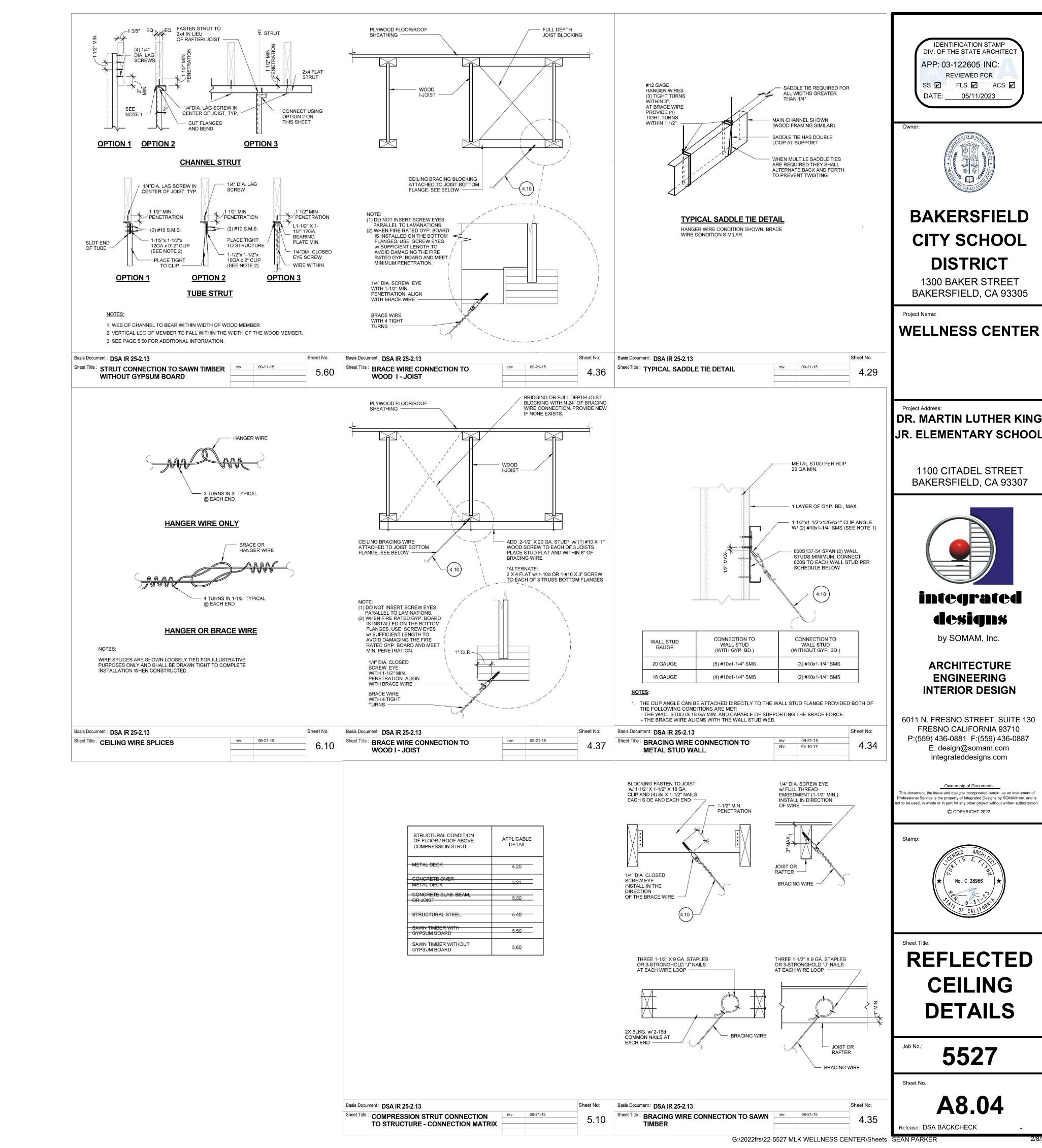




REFLECTED CEILING **DETAILS**

5527

A8.03



BAKERSFIELD CITY SCHOOL

DR. MARTIN LUTHER KING



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REFLECTED

WOOD NOTES

- 1. SEE LUMBER SCHEDULE ON 10/S1.04 FOR JOIST AND BEAM INFORMATION.
- 2. UNLESS SPECIFICALLY SHOWN OTHERWISE, BOLTS WHERE CALLED FOR ON THE DRAWINGS SHALL BE MACHINE BOLTS CONFORMING TO ASTM A307.
- 3. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD.
- 4. BOLTS AND SCREWS SHALL BE TIGHTENED AT THE TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
- 5. FRAMING ANCHORS AND CONNECTORS SHOWN ON THE DRAWINGS SHALL BE MANUFACTURED BY SIMPSON COMPANY, SAN LEANDRO, CA. OR EQUIVALENT. PROVIDE FASTENERS IN ACCORDANCE WITH MANUFACTURER'S CATALOG.
- 6. SATISFACTORY INSTALLATION SHALL BE DEMONSTRATED ON THE JOB AND THE ACCEPTANCE OF THE ARCHITECT SHALL BE OBTAINED BEFORE THE USE OF MACHINE APPLIED NAILS CAN BE APPROVED. APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE.
- 7. PLYWOOD EDGE NAILING/SCREWING:
 P.E.N./P.E.S. PLYWOOD NAILING AND SCREWING PER 1/S1.04 AND THE FOUNDATION PLAN WALL SHEATHING SCHEDULE.
- 8. NO PLYWOOD PIECE SHALL BE LESS THAN 2'-0" IN THE LEAST DIMENSION FOR ROOFS AND NOT LESS THAN 1'-0" FOR WALLS.
- 9. NO UPSET THREADS ALLOWED ON ANCHOR BOLTS.
- 10. ALL FASTENERS (ANCHORS BOLTS, NAILS, SCREWS, PLATE WASHERS, ETC.) IN, OR IN CONTACT WITH, PRESERVATIVE—TREATED WOOD ARE TO BE APPROVED STAINLESS STEEL OR HOT—DIPPED ZINC—COATED STEEL PER CBC 2304.

NAILING SCHEDULE

- UNLESS SPECIFICALLY NOTED OTHERWISE, NAILING SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE, USING ONLY COMMON WIRE NAILS. NAILING NOT NOTED BELOW OR IN PLANS SHALL HAVE A MINIMUM OF 2 NAILS AT EACH CONTACT, 8d FOR 1" MATERIAL AND 16d FOR 2" MATERIAL.
- NAILS SHALL ACHIEVE THE MINIMUM PENETRATION SPECIFIED IN THE TABLE BELOW. NAILS SHALL NOT BE DRIVEN CLOSER TOGETHER THAN THE MINIMUM SPACING NOR CLOSER TO THE MEMBER END THAN 1/2 THE MINIMUM SPACING. HOLES SHALL BE BORED WHERE NECESSARY TO PREVENT SPLITTING.

СОММ	ON WIRE NAIL	PROPERTIES
		MINIMUM
SIZE	WIRE GAGE	PENETRATION*
		AND SPACING
6d	11 1/2	1.36"
8d	10 1/4	1.57"
10d	9	1.78"
16d	8	1.94"
20d	6	2.30"
* DE		O THE DIEGE

* PENETRATION INTO THE PIECE RECEIVING THE POINT

WHERE POSSIBLE, NAILS DRIVEN PERPENDICULAR TO THE GRAIN SHALL BE USED INSTEAD OF TOENAILS.

١.	J01212 OF	K RAFIERS	AI BEAR	ING, TO	ENAIL I	EACH :	SIDE	 2-10a	
2.	BRIDGING	TO JOISTS	, TOENAIL	EACH	END			 2-8d	

1 JOICTO OD DAETEDO AT DEADINO TOENAU EAGU CIDE

3.	SOLE PLATE T	TO JOISTS OR 1	BLOCKING, FAC	E NAIL	16d AT 16" O.C.
			•		

4. TOP PLATE TO STUD, END NAIL	2-16d FOR 2X4
(NOT REQUIRED WHERE SIMP. A35's ARE USED)	3-16d FOR 2X6
	4-16d FOR 2X8

5. STUD TO SOLE PLATE	2X4	4-8d TOENAILS OR
(USE HALF OF REQUIRED TOENA	AILS ON ONE SIDE	2-16d ENDNAILS
WHERE SIMP. A35's ARE USED)	2X6	6-8d TOENAILS OR

D)	2X6	. 6-8d TOENAILS OF
		3-16d ENDNAILS
	2X8	8-8d TOENAILS OR
		4-16d ENDNAILS

6.	DOUBLE	STUDS,	FACE	NAILS	 						 16d	ΑТ	24"	O.C.	

•		
7. DOUBLE TOP PLATES,	FACE NAILS	16d AT 16" O.C.

8	. TOP PLATES, LAPS AT	INTERSECTIONS, F	ACE NAILS	2-16d
S	. CEILING JOISTS TO PLA	TE, TOENAIL		.3-8d

10. CONTINUOUS	HEADER T	ΓΟ STUD,	TOENAIL	

11. CEILING JOIST, LAPS OVER PARTITIONS, FACE NAILS	3-16d
12. CEILING JOIST, TO PARALLEL RAFTERS, FACE NAILS	3-16d

13. 1"	BRACE	TO	EACH	STUD	AND	PLATE,	FACE	NAILS	 2-8d

14. DOUBLE RAFTERS	S, FACE NAIL	. 16d AT 12" O.C.

15. BUILT UP STUDS	16d AT 24" O.C.	
16. BLOCKING BETWEEN JOISTS OR RAFTERS TO JOISTS OR RAFTERS		

TOENAILS, EACH SIDE, EACH END (TO JOIST OR RAFTER BEARINGS) TOENAILS EACH END (TO JOIST OR RAFTER BEARINGS)	
17 BLOCKING RETWEEN STUDS	2_164 OP 2_104

17. BLOCKING BETWEEN	STUDS	2-16d OR 2-10d
TOENAILS		

18.1X6 SHEATHING EACH BEARING	2-8d
19.1X8 SHEATHING EACH BEARING	3-8d

^{20.} NAILS DRIVEN INTO PRESSURE TREATED WOOD SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL (OR EQUIVALENT).

CONCRETE NOTES

1. PROPERTIES** OF CONCRETE SHALL BE AS FOLLOWS:

USE	MAXIMUM AGGREGATE SIZE	MINIMUM 28 DAY COMP. STRENGTH (PSI)	MAXIMUM WATER/CEMENT RATIO	MINIMUM CEMENT SACK PER CY	MAX. SLUMP	CEMENT TYPE
ALL	1"	3,000	0.45	6.5	4"	II OR V

- ** SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
- 2. CONCRETE SPECIFIED IN THESE DRAWINGS SHALL BE CONSIDERED AS STRUCTURAL CONCRETE. DESIGN IS BASED UPON AN Fc'=3000 PSI.
- 3. THE DIMENSIONS SHOWN FOR LOCATION OF REINFORCING STEEL ARE TO FACE OF BAR AND DENOTE CLEAR COVERAGE. UNLESS SPECIFICALLY NOTED, CONCRETE COVERAGE SHALL BE AS FOLLOWS:

LOCATION	COVERAGE
CONCRETE DEPOSITED DIRECTLY AGAINST THE GROUND (EXCEPT SLABS)	3"
CONCRETE EXPOSED TO THE GROUND BUT PLACED IN FORMS	
SLABS ON GRADE (CLEARANCE TO TOP SURFACE)	- SEE PLANS
,	& DETAILS

- 4. REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.
- 5. CONTINUOUS REINFORCEMENT SHALL BE SPLICED BY LAPPING THE REINFORCEMENT WITH THE MINIMUM LENGTH SHOWN IN DETAIL 3/S1.03.
- 6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. SPLICE BY LAPPING ADJOINING PIECES NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS 2".
- 7. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR NON-STRUCTURAL EXTERIOR SLABS AND WALKWAYS.
- 8. ANCHOR BOLTS EXTENDING TO THE BOTTOM OF FOOTING SHALL HAVE MINIMUM 3" CONCRETE COVER.
- 9. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED, UNLESS NOTED OTHERWISE.
- 10. ALL MOULDS, ORNAMENTS, GROOVES, CLIPS, ANCHOR BOLTS, ETC., SHOWN ON ARCHITECTURAL DRAWINGS SHALL BE PROVIDED FOR IN THE FORM WORK BEFORE THE CONCRETE IS POURED.
- 11. REFER TO BOTH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND SPACING OF ALL PLUMBING FIXTURES.
- 12. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO POURING CONCRETE.
- 13. ANCHOR BOLTS OR SILL BOLTS SHALL HAVE A FOUR DIAMETER TAIL AT ENDS UNLESS OTHERWISE
- 14. ALL WELDING OF REINFORCEMENT SHALL BE LOW HYDROGEN ELECTRODES UNLESS OTHERWISE NOTED. WELDING OF REINFORCING SHALL BE ALLOWED ONLY WHERE DETAILED ON DRAWINGS. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY SPECIFICATIONS AWS D1.4. WELDING SHALL NOT BE DONE WITHIN TWO BAR DIAMETERS OF ANY BENT PORTION OF A BAR THAT HAS BEEN BENT COLD. WELDING OF CROSSING BARS SHALL NOT BE PERMITTED FOR ASSEMBLY OF REINFORCEMENT UNLESS AUTHORIZED BY THE STRUCTURAL ENGINEER OF RECORD. ASTM A706 REINFORCING SHALL BE USED FOR ALL REINFORCING THAT IS BEING WELDED.
- 15. PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
- 16. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL CONCRETE MIX DESIGN REQUIREMENTS.

STRUCTURAL STEEL NOTES

NOTED. DO NOT USE UPSET (ROLLED) THREADS.

- 1. STRUCTURAL STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS" (LATEST EDITION AND SUPPLEMENTS).
- 2. STRUCTURAL STEEL PROPERTIES AS FOLLOWS SHAPES: ASTM A992, GRADE 50 ANGLES, PLATES AND BARS: ASTM A36 HSS SECTIONS: ASTM A500, GRADE B.
- 4. BOLTS SHALL CONFORM TO ASTM A325N, EXCEPT ANCHOR BOLTS WHICH SHALL CONFORM ASTM A307, GRADE 'A', UNLESS OTHERWISE NOTED.
- 5. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR ARCHITECTS' REVIEW BEFORE FABRICATION.
- 6. BOLT HOLES ON STEEL SHALL BE 1/16 INCH LARGER THAN NOMINAL SIZE OF BOLT USED, EXCEPT ANCHOR BOLT HOLES. ALL BOLT HOLES IN STEEL SHALL BE PUNCHED OR DRILLED, NO TORCHING OF HOLES IS ALLOWED.
- 7. STRUCTURAL STEEL SURFACES THAT ARE NOT EXPOSED TO WEATHER SHALL BE LEFT UNPAINTED. SURFACES THAT ARE TO BE WELDED SHALL BE LEFT UNPAINTED AND FREE OF RUST. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ANY OTHER REQUIREMENTS.
- 8. WELDS SHALL BE MADE ONLY BY WELDERS, TACKERS, AND WELDING OPERATORS WHO HAVE PREVIOUSLY QUALIFIED BY TESTS AS PRESCRIBED IN A.W.S D1.1 AND D1.3. WELDED JOINTS SHALL CONFORM TO THE PREQUALIFIED JOINT DETAILS AS INDICATED IN THE STRUCTURAL WELDING CODE (AWS D1.1) BY THE AMERICAN WELDING SOCIETY. WELDS SHALL BE MADE USING E70XX LOW HYDROGEN ELECTRODES U.N.O. BEVEL AND GROOVE WELDS SHALL BE FULL PENETRATION UNLESS OTHERWISE NOTED.
- 9. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WELD SIZE SHALL BE AISC MINIMUM UNLESS A LARGER SIZE IS NOTED.
- 10. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC., FOR SIZE AND LOCATIONS OF DECK OPENINGS AND DECK OPENINGS SMALLER THAN 12" NOT SHOWN ON THE STRUCTURAL DRAWINGS. SEE TYPICAL DETAILS FOR FRAMING REQUIREMENTS AT DECK OPENINGS. OPENINGS LARGER THAT 12" SHALL NOT BE PLACED IN DECK UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.

PREMANUFACTURED TJI TRUSSES

- 1. TRUSSES SHALL BE FACTORY MANUFACTURED WITH STRUCTURAL WOOD CHORDS AND PLYWOOD WEBS.
- B. SHOP DRAWING SUBMITTALS:

 1. SUBMIT SHOP DRAWINGS AND CALCULATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO
- 2. SHOP DRAWINGS SHALL INDICATE MEMBER SIZES AND GRADES. ALL BRIDGING AND BRACING REQUIRED FOR PROPER PERFORMANCE OF THE TRUSS SHALL BE INDICATED AND DETAILED TO
- SHOW ADEQUATE ATTACHMENT TO THE STRUCTURE.

 3. TRUSS FRAMING PLAN SHALL BE PROVIDED WITH THE SHOP DRAWINGS AND SHALL BE
- CROSS-REFERENCED WITH THE CALCULATIONS AND CONSTRUCTION DOCUMENTS. C. PROPRIETARY SPECIFICATION:
- 1. DUE TO THE CUSTOMIZED DETAILING AND ENGINEERING CHARACTERISTICS OF THIS PROJECT, IT IS A REQUIREMENT THAT RED BUILT BRAND (ICC-ES ESR-2994) MEMBERS BE USED IN THE BASE BID.

GENERAL STRUCTURAL NOTES

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH 2019 CALIFORNIA BUILDING CODE (C.B.C.).
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.
- 3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS OR
- 4. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST FDITION AND OR ADDENDUM.
- 5. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT.
- 6. TEMPORARY BRACING OR SHORING SHALL NOT BE REMOVED UNTIL MATERIALS REACH THEIR DESIGN STRENGTH.
- 7. OPENINGS, POCKETS, ETC. SHALL NOT BE PLACED IN SLABS, DECKS, BEAMS, JOISTS, COLUMNS, WALLS, ETC. UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE ARCHITECT WHEN DRAWINGS BY OTHERS SHOW OPENINGS POCKETS ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.
- 8. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAME FLOOR OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE SUCH LOADS WOULD EXCEED DESIGN LIVE LOAD.
- 9. CONTRACTOR SHALL READ AND FOLLOW ALL REFERENCED ICC REPORTS FOR INSTALLATION OF ITEMS SHOWN.
 ALTERNATIVE METHODS OF CONSTRUCTION MAY BE SUBMITTED FOR APPROVAL TO THE ARCHITECT WITH APPLICABLE ICC REPORTS
- 10. IT IS THE INTENT OF THESE PLANS TO PROVIDE DETAILS OF CONSTRUCTION NECESSARY TO GUIDE THE GENERAL CONTRACTOR WITH STRUCTURAL ASPECTS OF THE PROJECT ONLY. ARCHITECTURAL FEATURES WILL BE COORDINATED WITH THE OWNER
- 11. DO NOT SCALE STRUCTURAL DRAWINGS. IF DIMENSIONS OR DETAILS ARE NOT CLEAR, OR IF DISCREPANCIES EXIST ON THE DRAWINGS CONTACT THE ARCHITECT/ENGINEER.
- 12. SEE MECHANICAL, ELECTRICAL AND/OR ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZES OF PIPES, CONDUITS, FLOOR DRAINS, VENTS, DUCTS, DRAIN LEADERS AND OTHER SIMILAR OPENINGS NOT INDICATED ON THESE STRUCTURAL
- 13. SEE MECHANICAL, ELECTRICAL AND/OR ARCHITECTURAL DRAWINGS FOR EMBEDMENT OF BOLTS, ANCHORS AND OTHER MISCELLANEOUS EMBEDDED ITEMS NOT SHOWN ON THESE STRUCTURAL DRAWINGS.
- 14. SITE OBSERVATIONS OF THE PROJECT ARE NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- 15. ANY SUPPORT SERVICES PERFORMED BY THIS OFFICE'S FIELD REPRESENTATIVES DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THIS OFFICE WHETHER OF MATERIAL OR WORK, AND WHETHER PERFORMED PRIOR TO, DURING, OR AFTER COMPLETION OF CONSTRUCTION, ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS BUT DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
- 16. THE PROJECT SPECIFICATIONS ARE PART OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ADHERENCE TO ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.

BASIS OF DESIGN

1. DESIGN CODE: 2019 CALIFORNIA BUILDING CODE (CBC)

2. DESIGN LOADS:

DRAWINGS.

MAIN ROOF
DEAD LOADS: TYPICAL = 17.0 PSF
LIVE LOAD: CBC BASIC = 20.0 PSF

TYPICAL = 21.0 PSF

CBC BASIC = 20.0

ENTRY CANOPY DEAD LOADS: LIVE LOAD:

3. WIND DESIGN PARAMETERS:

ANALYSIS PROCEDURE — DIRECTIONAL METHOD
EXPOSURE C

TOPO FACTOR Kzt = 1.0

BASIC WIND SPEED = 110 MPH

VELOCITY PRESSURE, qz = 31.0 PSF

DESIGN BASE SHEAR: N/S = 17.3k, E/W = 12.4k

RISK CATEGORY = II
SEISMIC IMPORTANCE FACTOR = 1.00
CS = 0.1096

R = 6.5 BEARING WALL SYSTEM-LIGHT-FRAME (COLD FORMED STEEL) WALLS SHEATHED W/ WOOD STRUCTURAL PANELS.

DESIGN BASE SHEAR: N/S = 4.9k, E/W = 4.9k

SITE OBSERVATION BY ENGINEER OF RECORD

- 1. SITE OBSERVATIONS ARE REQUIRED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

 A. 24 HOURS (OR LESS) PRIOR TO ALL CONCRETE FOUNDATION POURS.

 B. AT THE COMPLETION OF ALL CONSTRUCTION BUT PRIOR TO THE CONCEALMENT OF STRUCTURAL COMPONENTS AND ASSEMBLIES.
- 2. A MINIMUM OF 3 SITE OBSERVATIONS SHALL BE MADE BY THE ENGINEER OF RECORD (EOR) OR THE EOR'S REPRESENTATIVE.
- 3. THE CONTRACTOR SHALL NOTIFY THE EOR AT LEAST 48 HOURS IN ADVANCE OF ANY SITE OBSERVATION.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY SCHEDULING OF ALL SITE OBSERVATIONS.
- 5. CONSTRUCTION PERFORMED WITHOUT SITE OBSERVATION IS SUBJECT TO REJECTION AND RECONSTRUCTION AT CONTRACTORS EXPENSE.

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122605 INC:

REVIEWED FOR
SS FLS ACS DATE: 05/11/2023

Owner:



CITY SCHOOL
DISTRICT

1300 BAKER ST.

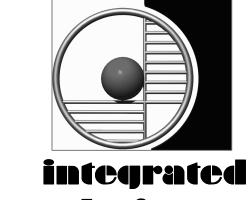
BAKERSFIELD. CA 93305

Project Name & Address:

WELLNESS CENTER

DR. MARTIN LUTHER KING JR. ELEMENTARY

1100 CITADELL, BAKERSFIELD, CA 93307



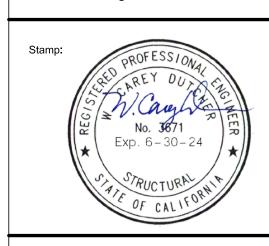
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Sheet Title:

TYPICAL NOTES

Job No.: **5527**

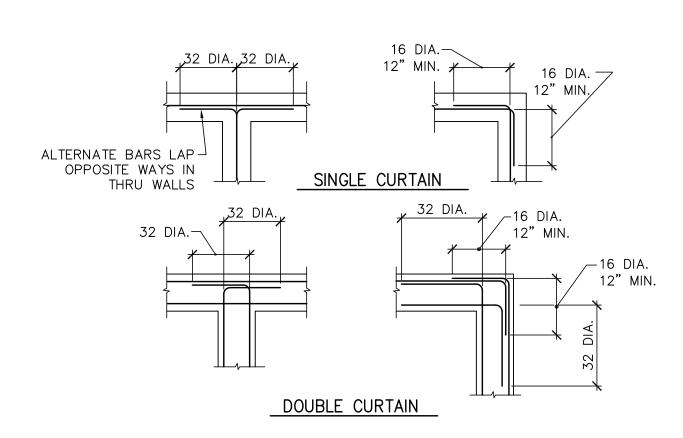
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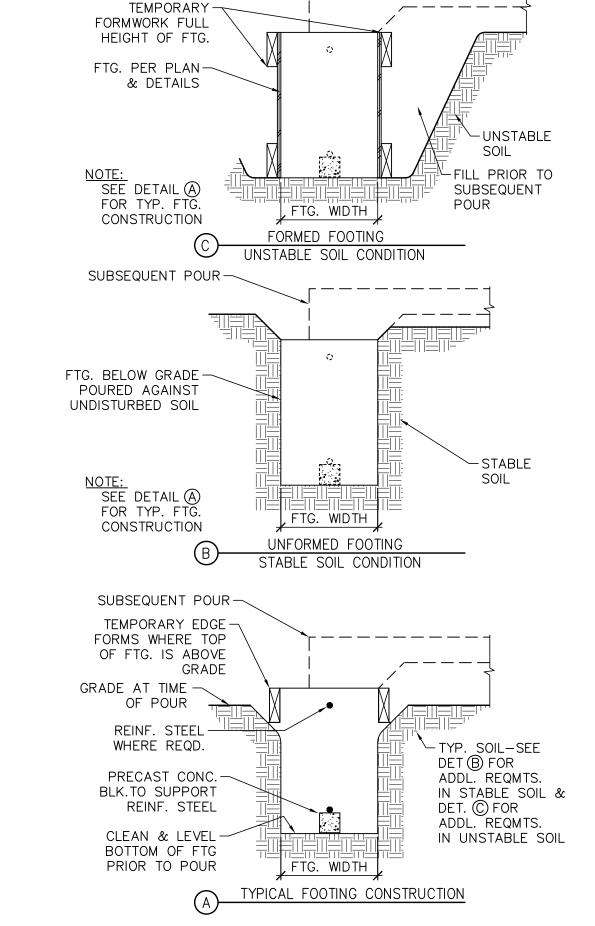
Release:

NOTE: SAWCUT SLAB WITHIN 12 HOURS OF POUR.

SLAB CONTROL JOINT (C.J.) AT 16'-0"OC MAX.



TYP. REINF. DETAIL @ INTERSECTIONS



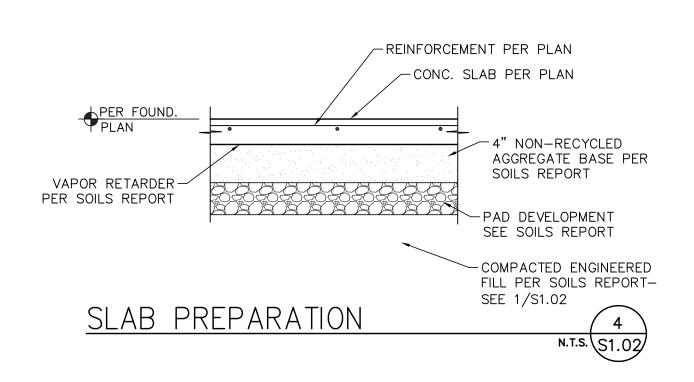
SUBSEQUENT POUR -

NOTES:

- 1. ALL FOOTINGS SHALL BE PLACED PER THE TYPICAL REQUIREMENTS OF DETAIL (A)
- 2. FOOTINGS MAY BE POURED DIRECTLY INTO NEAT EXCAVATIONS PER DETAIL (B) WHERE SOIL IS CONSIDERED STABLE AS DETERMINED BY THE ARCHITECT OR SOILS ENGINEER.
- 3. PROVIDE FORMWORK PER DETAIL (C) WHERE SOIL IS CONSIDERED UNSTABLE AS DETERMINED BY THE ARCHITECT OR SOILS ENGINEER.
- 4. SEE THE SOILS REPORT FOR OTHER REQUIREMENT.

TYP. FOUNDATION FORMWORK



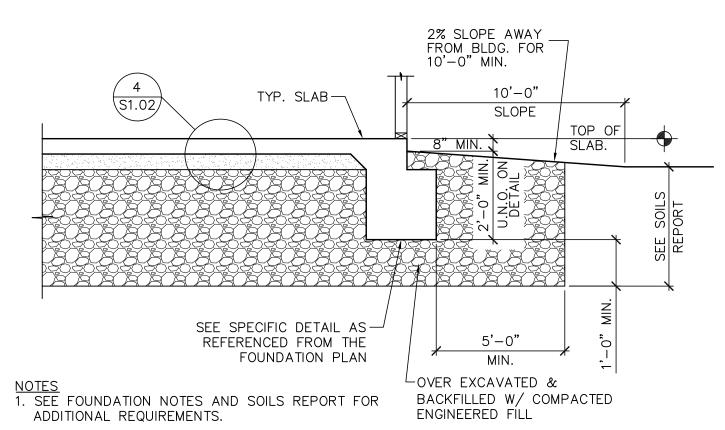


SPECIAL INSPECTION NOTES

- 1. IN ACCORDANCE WITH THE REFERENCED CODE, THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR WHO SHALL PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE FOLLOWING TYPES OF WORK:
 - A. EMBEDDED BOLTS, ANCHORS, AND REINFORCING IN CONCRETE CONTINUOUS
 - B. ALL STRUCTURAL STEEL WELDING CONTINUOUS C. INSPECTION OF REINFORCING STEEL - PERIODIC
 - D. ALL POST INSTALLED ANCHORS CONTINUOUS
 - . PLYWOOD SHEAR WALLS WHERE SCREW SPACING IS 4"OC OR LESS PERIODIC ADEQUACY AND PREPARATION OF ALL FILL MATERIAL & SUBGRADE - PERIODIC
 - G. PLACEMENT AND COMPACTION OF FILL MATERIALS CONTINUOUS H. ALL CONCRETE CONSTRUCTION & BATCH PLANT INSPECTION - CONTINUOUS
- 2. SPECIAL INSPECTOR'S BACKGROUND AND QUALIFICATIONS SHALL BE FORWARDED TO THE ARCHITECT AT LEAST 3 DAYS BEFORE ANY INSPECTIONS ARE PERFORMED.
- 3. "CONTINUOUS" SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. "PERIODIC" SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN, OR IS, BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
- 4. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL
- USED IN THE CONSTRUCTION TOOK PLACE ON SITE. 5. ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO
- REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. 6. EPOXY AND EXPANSION ANCHORS MAY BE USED ONLY WHEN APPROVED BY THE ARCHITECT.
- 7. SPECIAL INSPECTION OF SOILS SHALL REFERENCE THE APPROVED SOILS REPORT TO DETERMINE COMPLIANCE.
- 8. SEE THE PROJECT SPECIFICATIONS AND DSA FORM 103 FOR ADDITIONAL TESTING AND INSPECTION REQUIREMENTS.

REDLAM LVL BEAM NOTES

- 1. MANUFACTURER OF REDLAM BEAMS SHALL BE IN STRICT ACCORDANCE WITH ICC ES REPORT No. ESR-2993.
- 2. PRODUCTS SHALL BE PROVEN BY TESTING AND EVALUATION IN ACCORDANCE WITH THE PROVISIONS OF ASTM D-5456.
- 3. CONDITIONS OF USE WILL BE DRY. TEMPERATURE SHOULD NOT EXCEED 150°.
- 4. ADHESIVES SHALL BE OF THE WATERPROOF TYPE CONFORMING TO THE REQUIREMENTS OF ASTM D-2559.
- 5. PROVIDE REDLAM 2.0E OR AS NOTED ON THE DRAWINGS WITH:
 - Fb = 2,900 PSIFv = 285 PSI
 - Fc = 750 PSIE = 2,000,000 PSI
- 6. THE MANUFACTURER SHALL SUBMIT COMPLETE SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
- 7. ALL STRUCTURAL MANUFACTURED BEAMS SHALL BE FABRICATED UNDER CONTINUOUS INSPECTION BY AN INSPECTOR APPROVED BY THE LOCAL BUILDING OFFICIAL.
- 8. A CERTIFICATE OF CONFORMANCE IS REQUIRED PRIOR TO FRAMING INSPECTION FOR ALL REDLAM BEAM MEMBERS.
- 9. PROPRIETARY SPECIFICATION: DUE TO THE CUSTOMIZED DETAILING AND ENGINEERING CHARACTERISTICS OF THE FRAMING ASSEMBLY, IT IS A REQUIREMENT THAT REDBUILT MEMBERS BE USED IN THE BASE BID.



COMPACTED ENGINEERED FILL SEE SOILS REPORT.

3. THE BUILDING PAD SHALL BE CERTIFIED BY THE GEOTECHNICAL ENGINEER OF RECORD.

TYPICAL BUILDING PAD PREPARATION

FOUNDATION NOTES

- 1. NOMINAL TOP OF FLOOR SLAB ELEVATION = DATUM 0'-0" UNLESS OTHERWISE NOTED.
- 2. ALL FOOTINGS SHALL EXTEND TO FIRM BEARING IN UNDISTURBED SOIL OR ENGINEERED FILL.
- 3. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF NON-BEARING PARTITIONS.
- 4. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF EXTERIOR WALKWAYS.
- 5. CONSTRUCTION JOINTS ARE TO BE PROVIDED TO BREAK FLOOR SLAB INTO WORKING AREAS. SEE 5/S1.02.
- 6. ALL REINFORCING STEEL, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS SHALL BE SECURELY POSITIONED IN THE FORMS PRIOR TO POURING OF CONCRETE.
- 7. ALL CONCRETE WALLS AND COLUMNS SHALL BE DOWELED INTO FOOTINGS WITH BARS OF THE SAME SIZE AND SPACING AS THE VERTICAL WALL BARS UNLESS OTHERWISE NOTED. SEE CONCRETE NOTES FOR LAP REQUIREMENTS.
- 8. SHORING AND BRACING: IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING AND FORM WORK AS REQUIRED FOR THE CONSTRUCTION OF THE BUILDING. PROVIDE TEMPORARY BRACING AS REQUIRED TO HOLD THE VARIOUS ELEMENTS IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.
- 9. EXCAVATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES AND FOR PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES.
- 10. BACKFILL: DO NOT BACKFILL AROUND THE EXTERIOR PERIMETER WALL UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF THE INTERIOR FLOOR SYSTEMS. DO NOT BACKFILL UNTIL 7 DAYS MINIMUM AFTER COMPLETION OF THE FLOOR SLABS.
- 11. FOUNDATION DESIGNS ARE BASED ON THE SOILS REPORT No. 022-22124, BY KRAZAN & ASSOCIATES, INC., 2205 COY AVE., BAKERSFIELD, CA. 93307, DATED OCTOBER 14, 2022 WITH DESIGN PARAMETERS AS FOLLOWS:
- A. SOIL CLASSIFICATION: SILTY SAND, SANDY SILT B. MAXIMUM ALLOWABLE SOIL BEARING PRESSURE:
- DEAD LOAD PLUS LIVE LOAD = 2500 DEAD LOAD PLUS LIVE LOAD PLUS LATERAL LOAD = 3325
- C. PASSIVE RESISTANCE = 350 PCF (ALLOWABLE)
- D. ACTIVE PRESSURE = 32 PCF E. AT-REST PRESSURE = 52 PCF
- F. COEFFICIENT OF FRICTION = 0.40 (ALLOWABLE)
- 12. SEE DETAIL 1/S1.02, 4/S1.02 AND SOILS REPORT FOR SOIL PREPARATION REQUIREMENTS.

SCREW ANCHOR NOTES

- SCREW ANCHORS SHALL BE TITEN HD HEAVY-DUTY SCREW ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG-TIE CO. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ICC REPORTS ES ESR-2713 FOR CONCRETE APPLICATIONS AND ES ESR-1056 FOR MASONRY APPLICATIONS.
- 2. PLACEMENT GUIDELINES FOR THE ABOVE VALUES REQUIRE THE FOLLOWING CONDITIONS:
- * TABLE VALUES ARE BASED ON AN F'C = 3,000 PSI
- * HOLES DRILLED WITH A HAND-HELD ELECTRO-PNEUMATIC ROTARY HAMMER DRILL WITH A CARBIDE-TIPPED DRILL BIT CONFORMING TO ANSI B212.15-1994
- * PILOT HOLE MUST BE THE SAME DIAMETER AS THE SPECIFIED ANCHOR * HOLES TO BE DRILLED TO THE SPECIFIED EMBEDMENT DEPTH PLUS ¼" FOR ¼"Ø AND
- ¾"ø, AND PLUS ½" FOR ½"ø AND LARGER * ANY SEISMIC DESIGN CATEGORY PER CBC 2019
- * ACI CRACKED CONCRETE CONDITION IS ASSUMED * HOLES SHALL BE CLEANED IN ACCORDANCE WITH ICC REPORT NO. ESR-2713 FOR
- CONCRETE OR ESR-1056 FOR MASONRY
- 4. WHEN INSTALLING SCREW ANCHORS IN EXISTING REINFORCED MASONRY OR CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE HALF INCH BETWEEN THE REINFORCEMENT AND THE SCREW ANCHOR.

EPOXIED BOLT NOTES

- EPOXIED BOLTS SHALL BE ALL-THREAD RODS WITH SIMPSON SET-XP EPOXY ADHESIVE (ICC ESR-2508 FOR CONCRETE, ICC ESR-1772 FOR MASONRY). INSTALLATION SHALL BE IN ACCORDANCE WITH ICC AND MANUFACTURERS RECOMMENDATIONS. SEE DETAIL 4/S1.03.
- 2. EMBEDMENT DEPTHS SHALL BE AS FOLLOWS: <u>DIAMETER</u>

MIN. EMBEDMENT 3/8"----- $3\frac{1}{2}$ " 1/2"----- $4\frac{1}{4}$ " 5/8" OR GREATER-----PER DETAIL

3. ALL BOLTS SHALL BE TESTED.

TENSION TEST LOADS **DIAMETER** <u>TENSION</u> 3/8" 1300 LBS. 1/2" 1500 LBS. 5/8" 1700 LBS. 3/4" 1900 LBS.

4. WHEN INSTALLING EPOXIED BOLTS IN EXISTING REINFORCED MASONRY OR CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE EPOXIED BOLT.

DSA STAMP

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122605 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗹 DATE: __ 05/11/2023



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER ST BAKERSFIELD, CA 93305

Project Name & Address:

WELLNESS CENTER

DR. MARTIN LUTHER KING JR. ELEMENTARY

1100 CITADELL, BAKERSFIELD, CA 93307



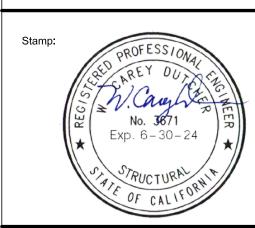
designs

by SOMAM, Inc.

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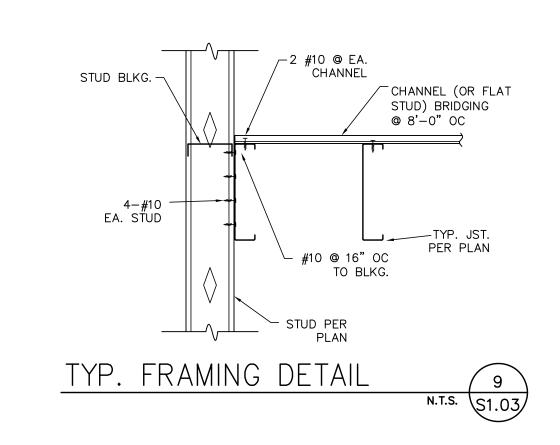


Sheet Title:

TYPICAL DETAILS

5527

S1.02



TYP. JST. PER

PLAN

10

N.T.S. \S1.03

-#10 @ 6" OC

TO BLKG.

N.T.S. \$1.03

BLKG. @ 48"0C

#10 @ 12 OC,

#10 T&B EA.

BLK. TO TRACK

TRACK -

STUD PER-

#10 TO EA. STUD

#10 T&B EA. -JST. TO TRACK

TYP. FRAMING DETAIL

PLAN

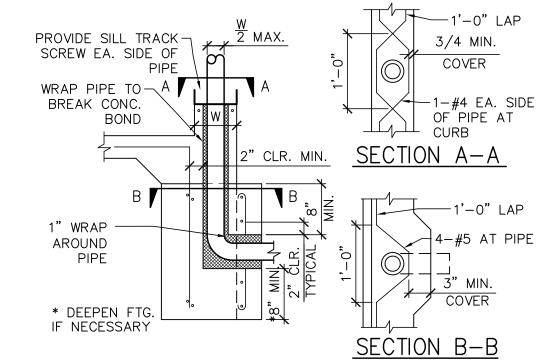
∠2X2X16GA CLIP

TRACK & JOIST -

W/ 4#10 TO

PLAN

TYP. FRAMING DETAIL





MIN.

PIPES ADJACENT TO FOOTINGS

TYP. CONT.-

OR PAD FTG.

- PIPE PERMITTED IN

THIS AREA

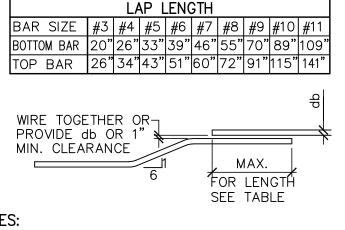
EXCAVATION

EXCAVATION PROHIBITED

N.T.S. S1.03

BELOW THIS LINE

— PERMITTED

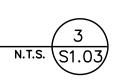


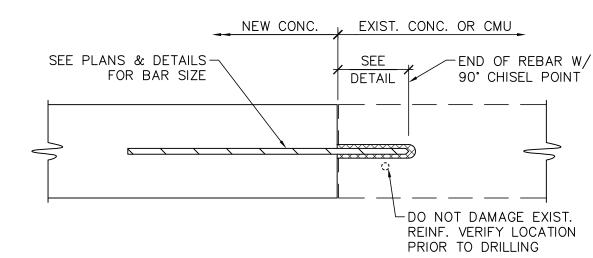
1. SPLICES ARE SHOWN IN INCHES AND SHALL CONFORM TO CLASS "B" SPLICES AS PER ACI 318-14.

2. SPLICE LENGTHS ASSUME THE MODIFICATION FACTORS OF ACI 318 SECTIONS 25.4 ARE 1.0. FOR OTHER CONDITIONS PROVIDE SPLICE LENGTHS IN ACCORDANCE WITH ACI 318-14.

3. USE THE SPLICE LENGTH GIVEN FOR TOP BARS WHEN MORE THAN 12" OF CONC. IS CAST BELOW HORIZONTAL BARS IN THE MEMBER. USE THE SPLICE LENGTH GIVEN FOR BOTTOM BARS FOR ALL OTHER CONDITIONS.





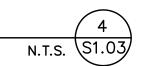


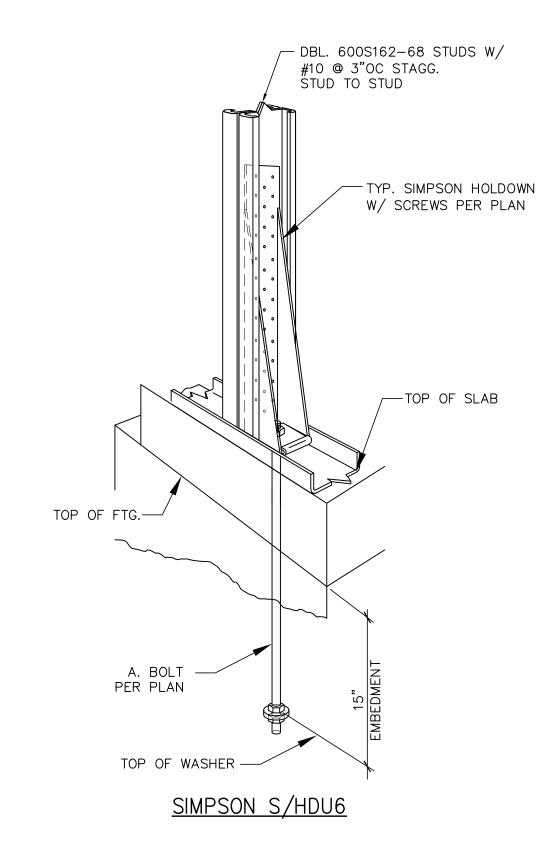
1. DRILL HOLE 1/8" LARGER THEN REBAR DIAMETER.

2. CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS WITH WATER, WIRE BRUSH, AND AIR.

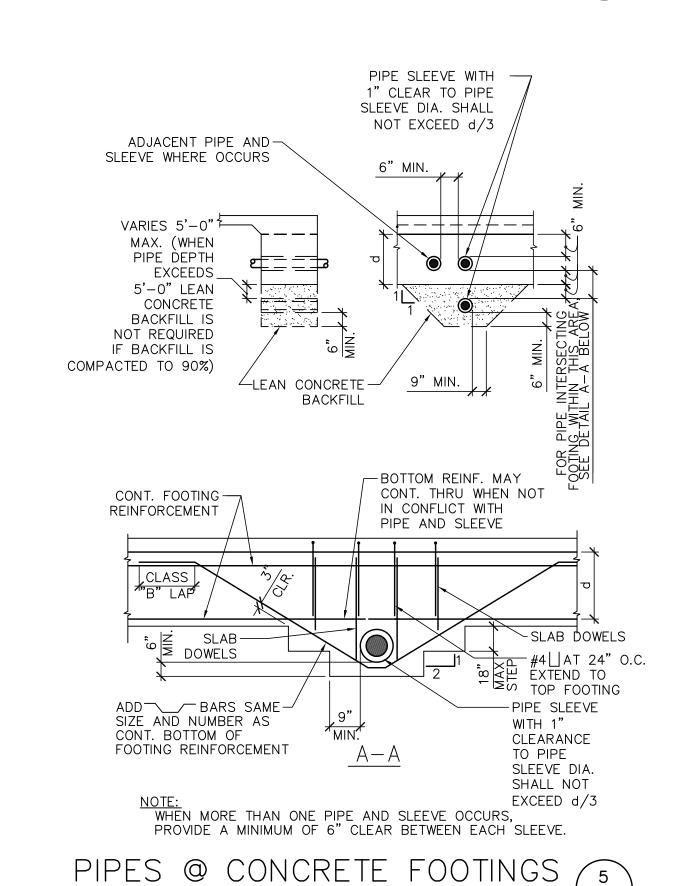
3. INSTALL REBAR PER DETAIL AND MANUFACTURER'S REQUIREMENTS WITH SIMPSON SET HIGH STRENGTH EPOXY. SEE "EPOXIED BOLT NOTES" SHEET S1.02 FOR ICC REPORT REFERENCES.

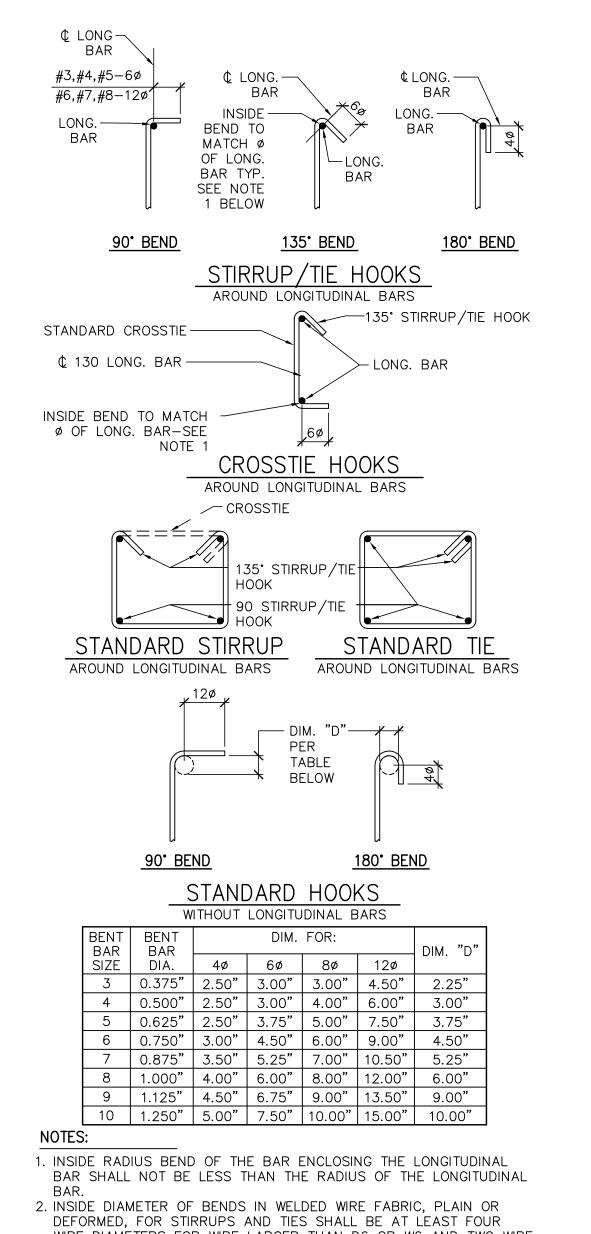
EPOXIED DOWEL

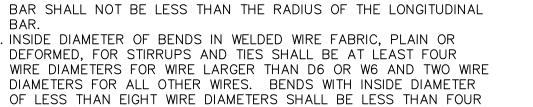




HOLDOWN DETAIL

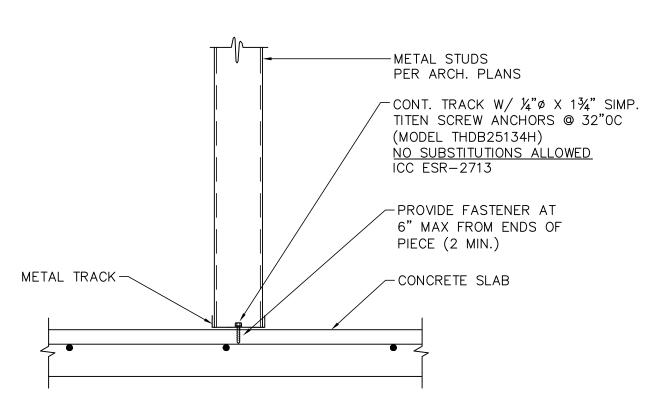






DIAMETERS FROM THE NEAREST WELDED INTERSECTION. 3. UNLESS NOTED OTHERWISE, ABOVE BAR BENDS SHALL NOT EXTEND LESS THAN 6 BARS DIAMETERS.





N.T.S. \S1.03

TYP. INTERIOR NON-BEARING (2) WALL TO SLAB

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Project Name & Address:

WELLNESS CENTER

DR. MARTIN LUTHER KING JR. ELEMENTARY

1100 CITADELL, BAKERSFIELD, CA 93307

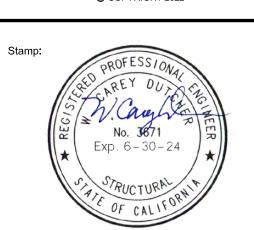


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6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

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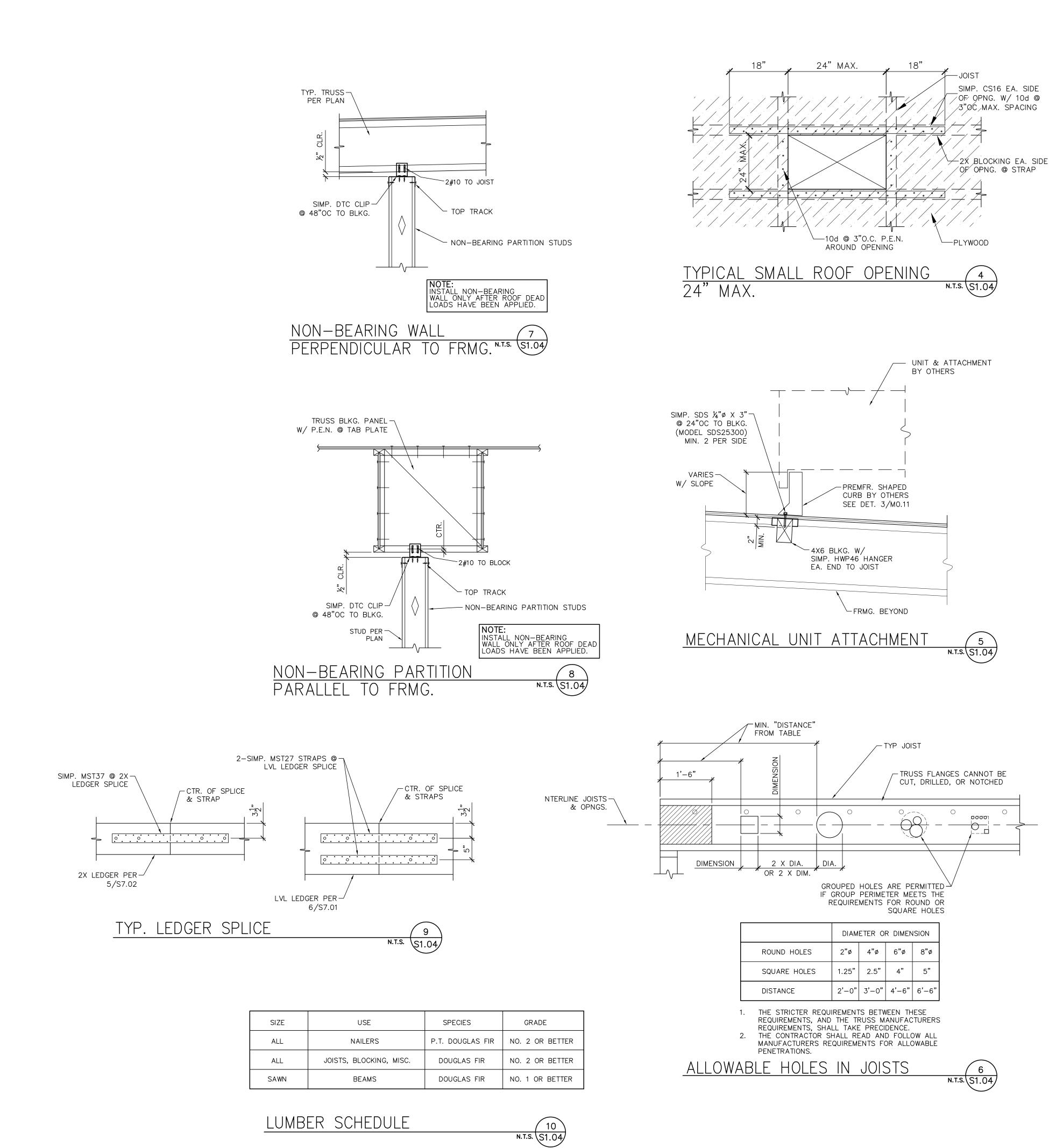


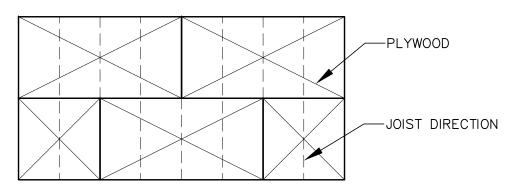
Sheet Title:

TYPICAL DETAILS

5527

S1.03





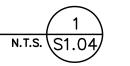
PLYWOOD LAYOUT

				WIDTH		CONI	NECTOR			
TYPE	THICK-	PANEL	GRADE	FRAM'G	C17E	TVDE	5	PACING	;	REMARKS
	NESS	INDEX		MEMBER	SIZE	TYPE	BDRY	EDGE	FIELD	
\Diamond	5/8"	40 20	CDX STRUCT I	2X	10d	CMN	6	6	12	UNBLOCKED

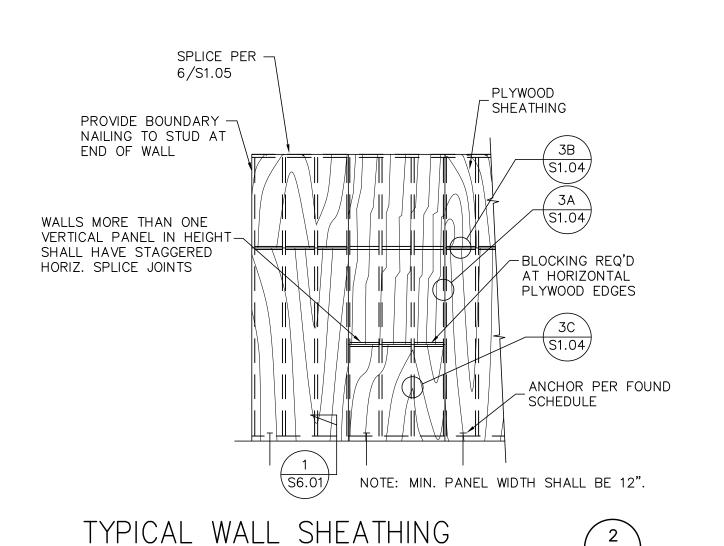
- 1. PROVIDE FRAMING MEMBERS AT MINIMUM WIDTH INDICATED AT ALL
- PLYWOOD EDGES. BLOCKED - USE 2X4 FLAT BLOCKING AT AREAS INDICATED AS BLOCKED.
- 3. EDGE REFERS TO PLYWOOD EDGE NAIL (P.E.N.) SPACING 4. FIELD - REFERS TO PLYWOOD FIELD NAIL SPACING
- 5. CMN REPRESENTS COMMON NAILS 6. SMS - REPRESENTS SHEET METAL SCREWS

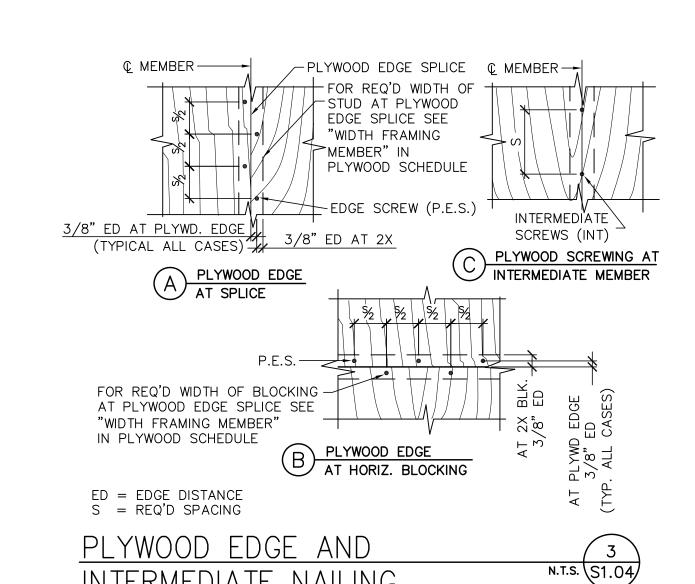
7. MINIMUM PANEL WIDTH SHALL BE 24".

ROOF PLYWOOD SCHEDULE



N.T.S. S1.04





INTERMEDIATE NAILING

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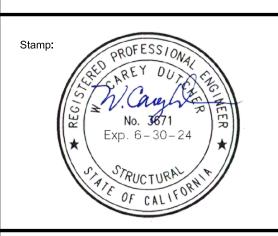
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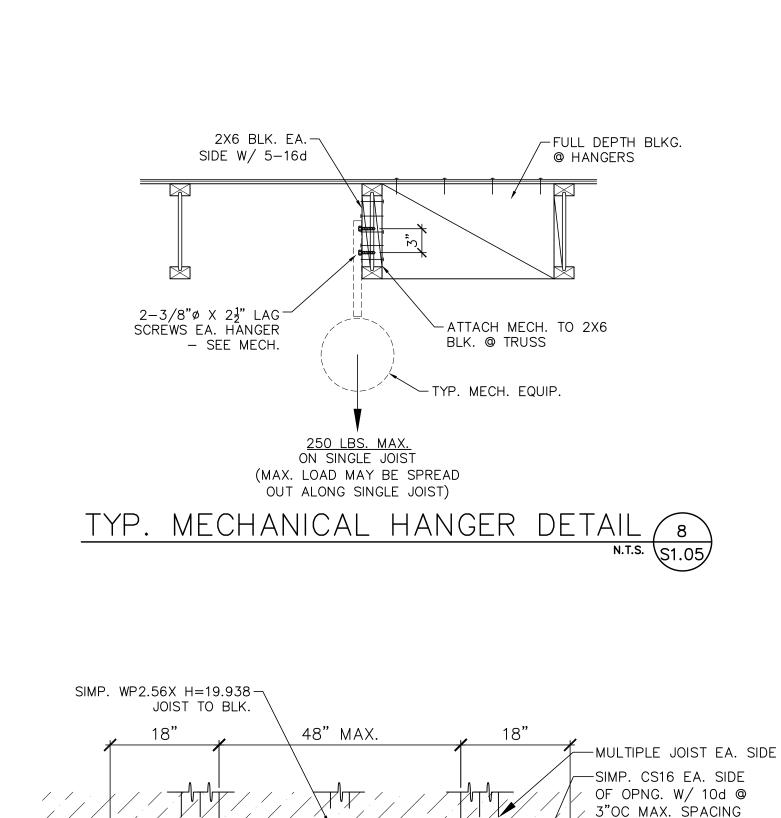
Sheet Title:

TYPICAL DETAILS

5527

Sheet No.:

S1.04



4X12 HDR. W/ CONN.

—10d @ 3"O.C. P.E.N. AROUND OPENING

TYPICAL LARGE ROOF OPENING

COL. PER PLAN-

4X12 HDR. W/ $^{\perp}$ SIMP. HWP

2X6 FULL HT. BLK.-W/ 5—16d TO TRUSS

DETAIL

TYPICAL STUD TO STEEL COLUMN (10)

48" MAX.

STL. WALL STUD EA. SIDE-W/ #10 STS @ 6"OC STAGG. FULL HEIGHT

PER 11/S1.05

		FR.	AMING SCHEDULE			
WALL TYPE	SPAN LENGTH BOX HEADER JAMB STUDS		SILL TRACK	NO. #10 S.M.S. AT EACH JOIST		
WALL THE	SI AIV ELIVOITI	DBL. JOIST	TRACK	UANID STODS	TRACK	TO JAMB
6" STUDS	0'-0" TO 6'-6"	(2)800S200-43	600T200-54	(2)600S162-43	600T200-54	8
6" STUDS	6'-6" TO 8'-0"	(2)1200S200-54	600T200-54	(2)600S162-43	600T200-54	12

SEE 6/S1.05 FOR-

SILL TRACK —

#10 S.M.S.

JAMB STUDS -

2-#10 S.M.S.-

JAMB STUDS -

CUT FLANGE —

#10 S.M.S.-SEE-

 \times 2X BLOCKING EA. SIDE

OF OPNG. @ STRAP

-PLYWOOD

N.T.S. S1.05

BLK'G PROVIDED

N.T.S. S1.05

FRAMING SCHEDULE

TYPICAL STUD

SILL CONNECTION

6" LONG PIECE

OF STUD WITH 2-#10 S.M.S.

-BOX HEADER

-#10 S.M.S. AT ËACH SIDE

HEADER CONNECTION

TRACK SPLICE

-600T200-54 CONT. TOP TRACK

\LENGTH'

-METAL STUD

#10 S.M.S. EA.

SIDE OF STUD

SCHEDULE

SCHEDULE

BOX HEADER

-#10 S.M.S AT

12" O.C., TYP.

-TRACK PER FRAMING

TRACK PER FRAMING

-DOUBLE JOIST PER

FRAMING SCHEDULE

. 6" MAX.

-METAL STUDS

-JAMB STUDS PER FRAMING SCHEDULE

-BOX HEADER PER

FRAMING SCHEDULE

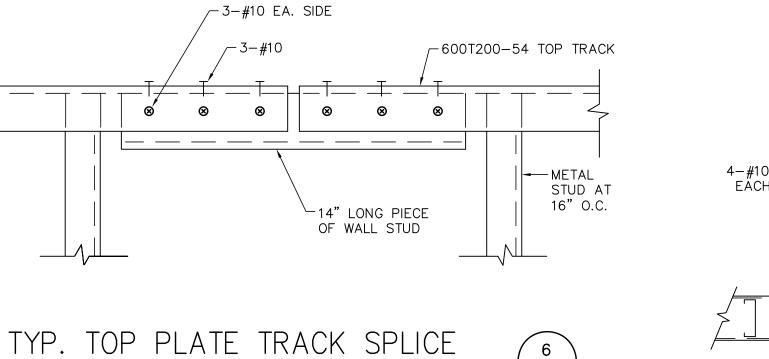
-SILL TRACK PER PLAN FRAMING SCHEDULE

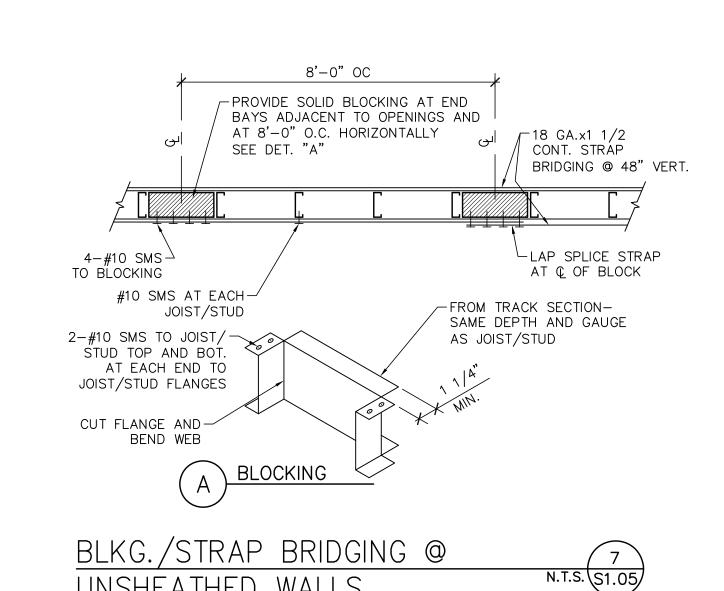
∠ 2 SCREWS MIN. @ END

PER FOUND. SCHEDULE

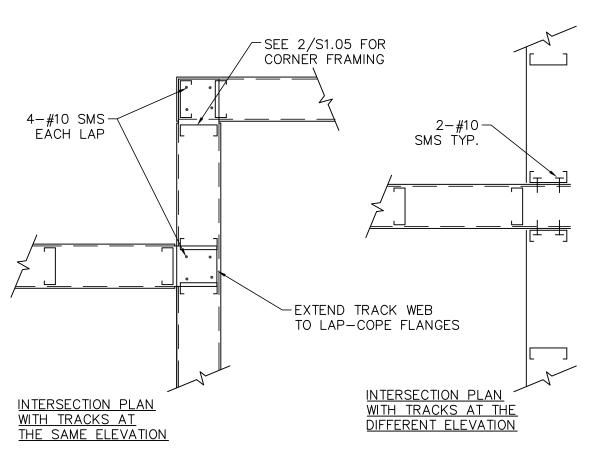
AT 16" O.C.



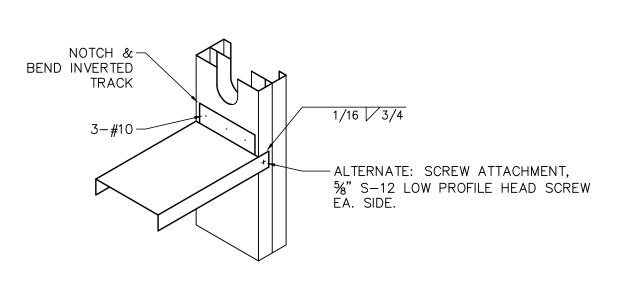




UNSHEATHED WALLS

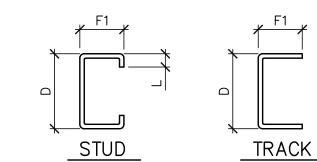


TYP. TOP TRACK INTERSECTION (4) N.T.S. \$1.05 AT PARTITION WALLS



TYP.	STEEL	STUD	BLOCKING		5
				N.T.S.	\$1.05

			МІ	EMBER PROF	PERTIES				
MARK	GAUGE	MIN. INCHES		DIMENSIONS IN INCHES		MIN. GROSS PROPE		ASTM	Fy
		THICK	L	D	F1	I x in ⁴	S in ³	SPEC	(ksi)
Steel Stud	S							•	
350S125-33	20	0.0346	0.188"	3.500"	1.25"	0.382	0.175	A653	33
400S162-33	20	0.0346	0.5"	4.000"	1.625"	0.692	0.346	A653	33
400S162-43	18	0.0451	0.5"	4.000"	1.625"	0.892	0.446	A653	33
600S162-33	20	0.0346	0.5"	4.000"	1.625"	1.793	0.598	A653	33
600S162-43	18	0.0451	0.5"	6.000"	1.625"	2.316	0.772	A653	33
600S162-68	14	0.0566	0.5"	6.000"	1.625"	3.525	1.175	A653	33
800S200-43	18	0.0451	0.625"	8.000"	2"	5.302	1.293	A653	33
1200S200-54	16	0.0566	0.625"	12.000"	2"	17.662	2.944	A653	33
Tracks									
400T125-33	20	0.0346	_	4.000"	1.25"	0.549	0.265	A653	33
600T200-43	18	0.0451	_	6.000"	2"	2.494	0.809	A653	33
600T200-54	16	0.0566	_	6.000"	2"	2.759	0.759	A653	33



1. ALL SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE

- LATEST A.I.S.I. SPECIFICATION.
- 2. BENT, KINKED, DISTORTED, OR DAMAGED SECTIONS SHALL NOT BE USED.
- 3. STUDS MAY HAVE 1 1/2"x4" WEB CUT OUTS AT 24" O.C. CUT OUTS SHALL NOT BE CLOSER THAN 12" FROM SECTION ENDS.
- 4. SECTION PROPERTIES ARE BASED UPON THE "STEEL STUD MANUFACTURER'S ASSOCIATION" (SSMA) CATALOG OF PARTICIPATING
- 5. FASTENERS SHALL BE HILTI BRAND AS MANUFACTURED BY HILTI, INC., 5400 SOUTH 122 NORTH EAST AVENUE, TULSA, OKLAHOMA 74146. SEE
- WHERE 6" STUDS AND TRACKS ARE SPECIFIED, USE 600S162-54 AND 600T200-54, RESPECTIVELY.
- 7. SMS SHEET METAL SCREW. STS - SELF TAPPING SCREW. SEE TABLE BELOW.

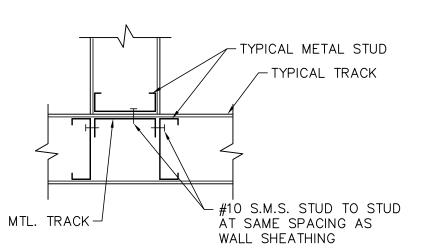
PRODUCERS. (PER ICC REPORT NO. ESR-3064P)

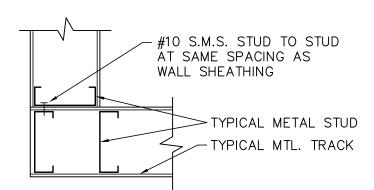
METAL TO METAL FAS	TENER SIZE*
METAL THICKNESS 'T'	SCREW TYPE
T < 12 GA.	#10 W/ #2 POINT
12 GA. < T< 1/4"	#10 W/ #3 POINT
1/4" < T < 1/2"	#10 W/ #5 POINT

METAL TO WOOD FAS	TENER SIZE*
METAL THICKNESS 'T'	SCREW TYPE
18 GA.	#10 X 1¾" STS

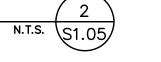
*MIN. SCREW HEAD DIAMETER SHALL BE 5/16"







STUD INTERSECTION



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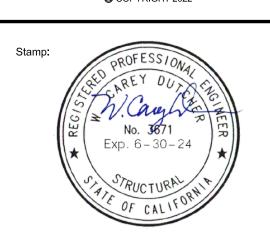
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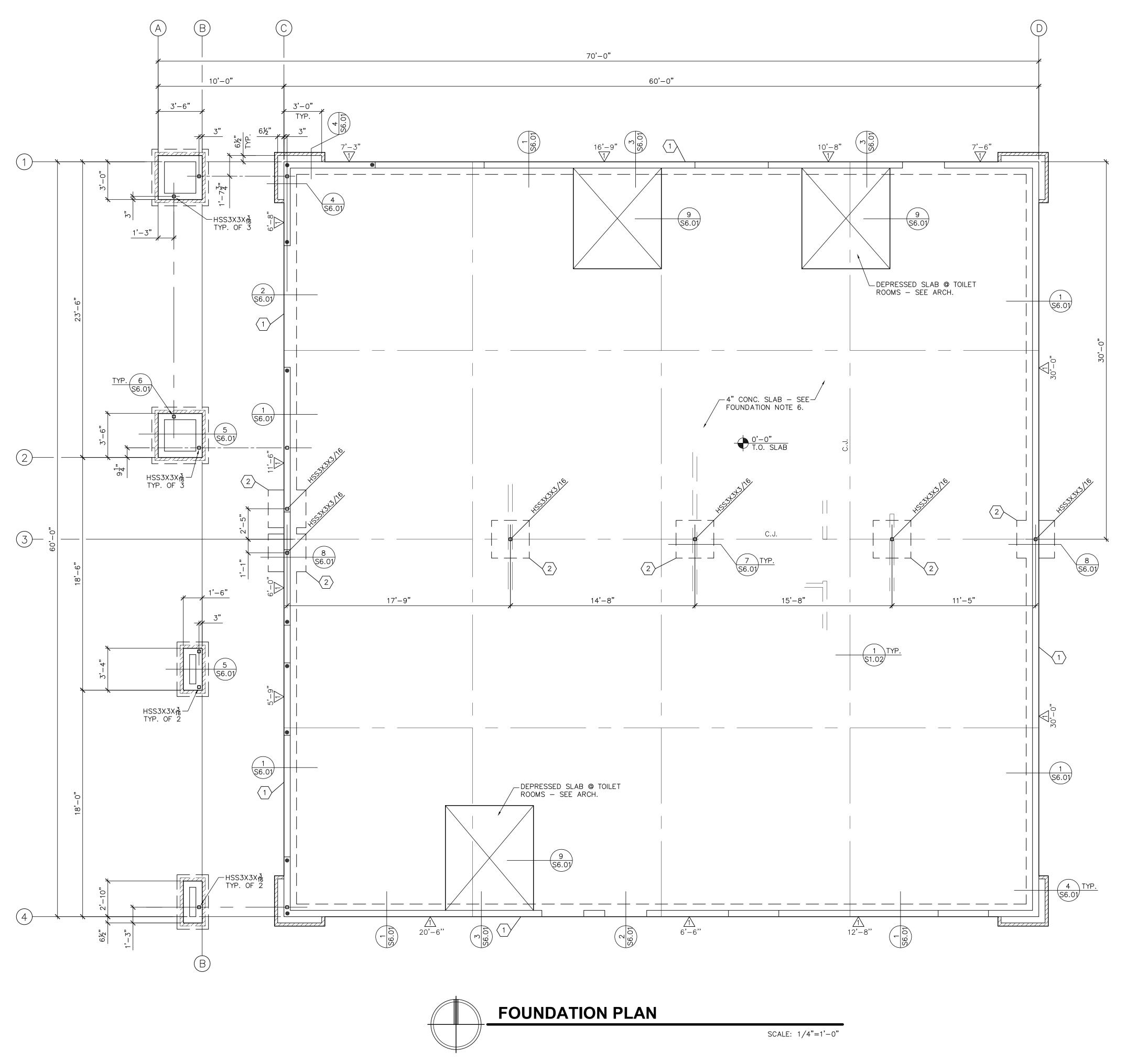


Sheet Title:

TYPICAL DETAILS

5527

S1.05



FOUNDATION NOTES

- REFER TO GENERAL NOTES AND TYPICAL DETAILS ON SHEET S1.01 THRU
- 2. SEE DETAIL 5/S1.03 WHERE PIPES INTERSECT FOOTING.
- ALL EMBEDDED ITEMS MUST BE TIED IN PLACE AND SECURE PRIOR TO FOUNDATION INSPECTION.
- 4. SEE 1/S1.02 FOR METHOD OF POURING CONCRETE SLABS ON GRADE.
- 5. PLYWOOD WALL SHEATHING IS TO BE APPLIED OVER THE ENTIRE WALL.
- 6. 4" (MIN.) THICK CONCRETE SLAB WITH #3 BARS AT 16"OC EACH WAY SET 1½" DOWN FROM TOP OF SLAB. MAINTAIN MINIMUM SLAB THICKNESS AT SLOPED SLABS.
- 7. DENOTES HOLDOWN TYPE "1" PER "HOLDOWN SCHEDULE", THIS SHEET.
- 8. SEE 10/S1.05 FOR TYPICAL STEEL STUD TO COLUMN CONNECTION.
- 9.

 DENOTES SHEAR WALL PER "SHEAR WALL SCHEDULE", THIS SHEET.

WALL SHEATHING SCHEDULE

ı	TYPE	I		GRADE	WIDTH	NAILING			ANCHOR BOLTS					
ŀ			- 1		FRAM'G MEMBER	SIZE	TYPE	SPACING		DIA-	EMBED.		REFERENCE	ASD CAPACITY
		NESS						PES	INT	METER	DEPTH	Si Acino		
	$\hat{\Lambda}$	1/2"	32/ 16	CDX STRUCT 1 PLYWD.	STEEL STUD	#10	SMS	6	12	1/4"	1"	8"OC	SEE 2/S1.04	356 PLF

- PROVIDE FRAMING MEMBERS AT MINIMUM WIDTH INDICATED WHERE PLYWOOD SHEETS ARE SPLICED.
 P.E.S. PLYWOOD EDGE SCREW SPACING
 INT INTERIOR PLYWOOD SCREWS TO SUPPORTS, NOT OTHERWISE
- SPECIFIED. SEE 2/S1.04 FOR OTHER INFORMATION.
- SMS SHEET METAL SCREW (1" MIN. LENGTH)
 SCREWS USED TO ATTACH SHEATHING SHALL BE IN ACCORDANCE WITH
- 6. 15/32" PLYWOOD IS ACCEPTAPLE WITH DIMENSIONAL CONSIDERATION.

FOOTING SCHEDULE

MARK	PLAN DIM.	MIN. DEPTH	REINFORCEMENT			
1	1'-0" WD.	1'-6"	2-#5 CONT. TOP & BOT.			
2	3'-0" SQ.	1'-6"	3-#5 EA. WAY BOT.			

HOLDOWN SCHEDULE

	SIMPSON	MIN BOST	FASTENERS	ANCHOR	DETAIL	
TYPE	HOLDOWN	MIN. POST	SCREWS TO POST ³	BOLTS	REFERENCE	
1)	S/HDU6	DBL. 600S162-68	12 — #14	5/8"ø	8/\$1.03	

NOTES:

1. INSTALL HOLDOWN IMMEDIATELY ADJACENT TO END OF WALL, AS SHOWN ON FOUNDATION PLAN, ATTACH TO POST.

2. INSTALL PER MANUFACTURERS REQUIREMENTS AND GUIDELINES.

3. PROVIDE PLYWOOD EDGE SCREWS TO POST AT HOLDOWN.

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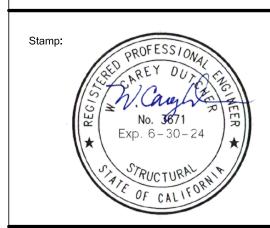
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Sheet Title:

FOUNDATION PLAN

5527

S2.01

CEILING FRAMING NOTES

- 1. REFER TO GENERAL NOTES ON SHEETS S1.01 THRU S1.05.
- 2. CONTRACTOR SHALL VERIFY FIRE SPRINKLER LINE LAYOUT AND PROVIDE FOR ADDITIONAL FRAMING AS REQUIRED FOR PROPER SUPPORT.
- 3. CONTRACTOR SHALL VERIFY AND COORDINATE THE LOCATIONS OF ALL ROOF SUPPORTED MECHANICAL AND ELECTRICAL EQUIPMENT.



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DATE: 05/11/2023

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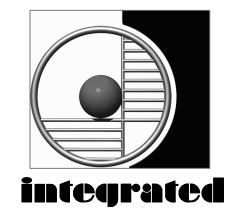
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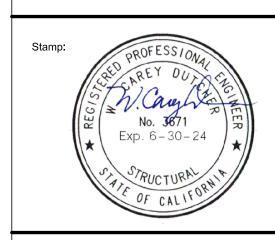
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Sheet Title:

CEILING FRAMING PLAN

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Sheet No:

S3.01

Release:

12/22/2:

ROOF FRAMING NOTES

- 1. REFER TO GENERAL NOTES ON SHEETS S1.01 THRU S1.05.
- 2. ALL ROOF FRAMING SPACES AS SHOWN ON PLANS SHALL BE AS MEASURED ON OF SLOPE.
- 3. ALL ROOF SHEATHING SHALL BE TYPE "A" PER DETAIL 1/S1.04, U.N.O.
- 4. SEE DETAIL 9/S1.05 FOR TYPICAL FRAMING AT ROOF OPENINGS.
- 5. CONTRACTOR SHALL VERIFY FIRE SPRINKLER LINE LAYOUT AND PROVIDE FOR ADDITIONAL FRAMING AS REQUIRED FOR PROPER SUPPORT.
- 6. CONTRACTOR SHALL VERIFY AND COORDINATE THE WEIGHTS & LOCATIONS OF ALL ROOF SUPPORTED MECHANICAL AND ELECTRICAL UNITS AND PROVIDE ADDITIONAL FRAMING AS REQUIRED FOR PROPER SUPPORT.
- 7. REPRESENTS DIRECTION OF DOWNWARD SLOPE.
- 8. ALL POST TO BEAM CONNECTIONS SHALL HAVE SIMPSON PC OR EPC CONNECTORS, U.N.O..
- 9. USE SPLICE PER 6/S1.05 TYPICAL, U.N.O.
- 10. ALL WALLS SHALL BE 600S162-43 STUDS @ 16"0C, U.N.O.
- 11. PROVIDE COMPLETE TRUSS DRAWINGS AND CALCULATIONS. TRUSS
 DRAWINGS MUST BE APPROVED WITHIN 30 DAYS OF PERMIT ISSUANCE. NO INSPECTIONS WILL BE PERFORMED IF TRUSS DRAWINGS ARE NOT APPROVED AFTER 30 DAYS. TRUSS DRAWINGS MUST INCLUDE THE HANGERS FOR
- 12. APPROVED TRUSS DRAWINGS MUST BE ON JOB SITE FOR INSPECTION

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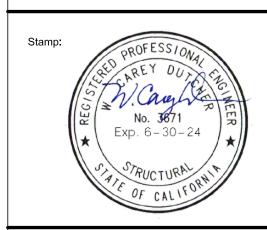
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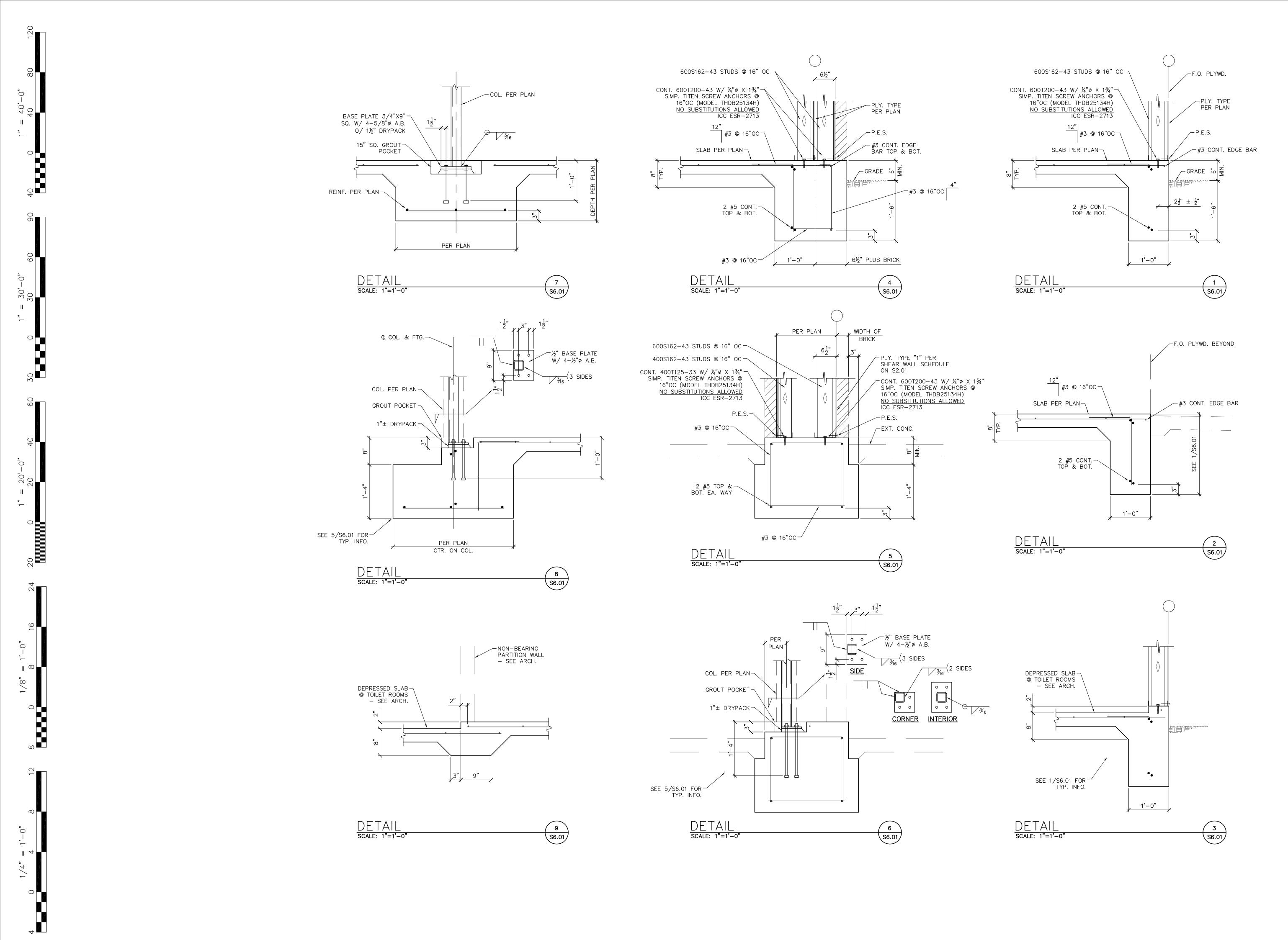


Sheet Title:

ROOF FRAMING PLAN

5527

S4.01



DSA STAMP

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 03-122605 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 05/11/2023

Owner:



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER ST. BAKERSFIELD, CA 93305

Project Name & Address:

WELLNESS CENTER

DR. MARTIN LUTHER KING JR. ELEMENTARY

1100 CITADELL, BAKERSFIELD, CA 93307



by SOMAM, Inc.

designs

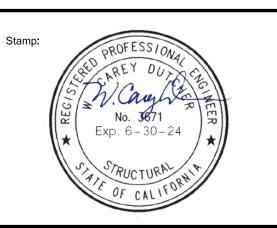
ARCHITECTURE ENGINEERING INTERIOR DESIGN

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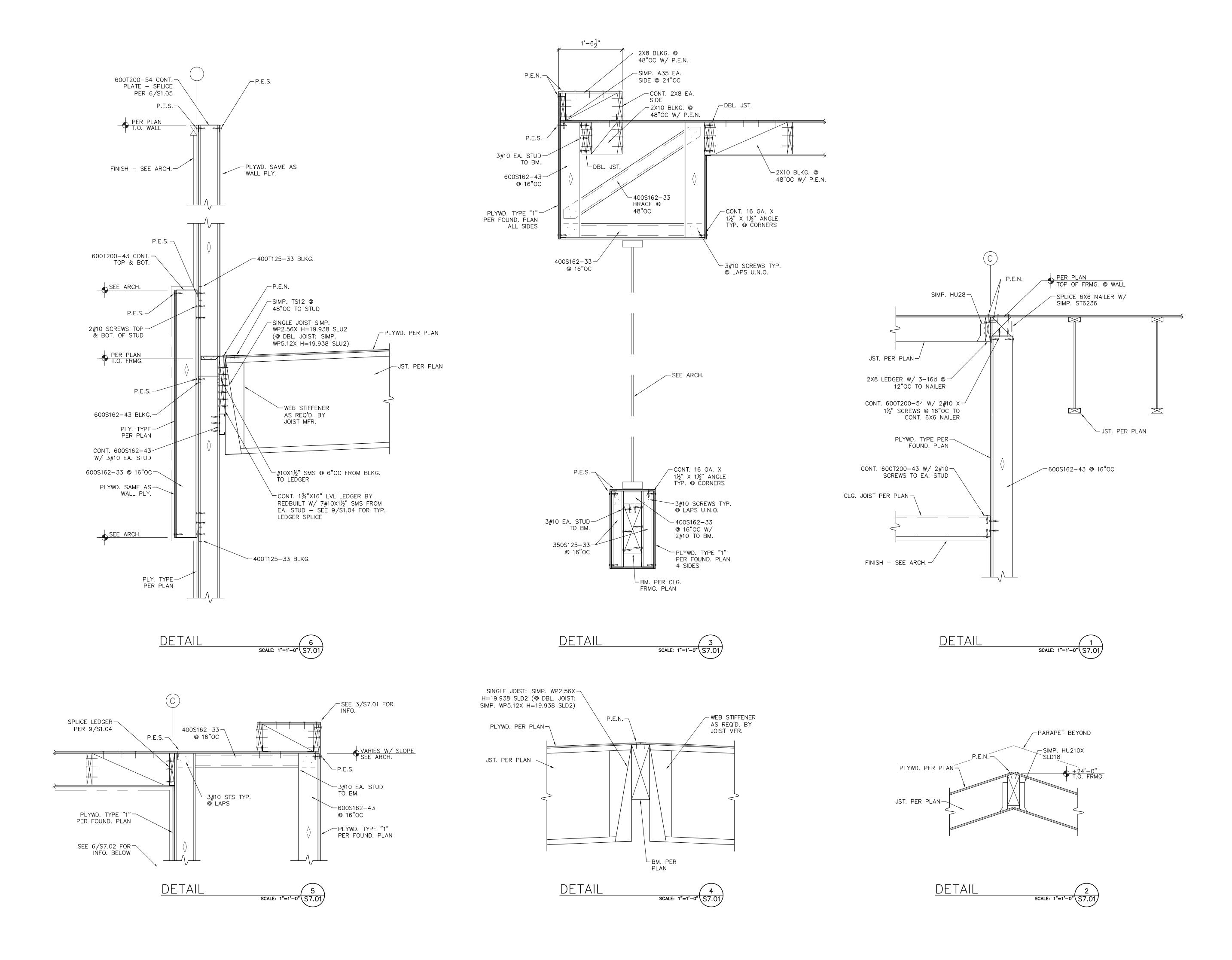
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FOUNDATION DETAILS

5527

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S6.01



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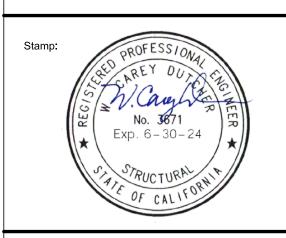
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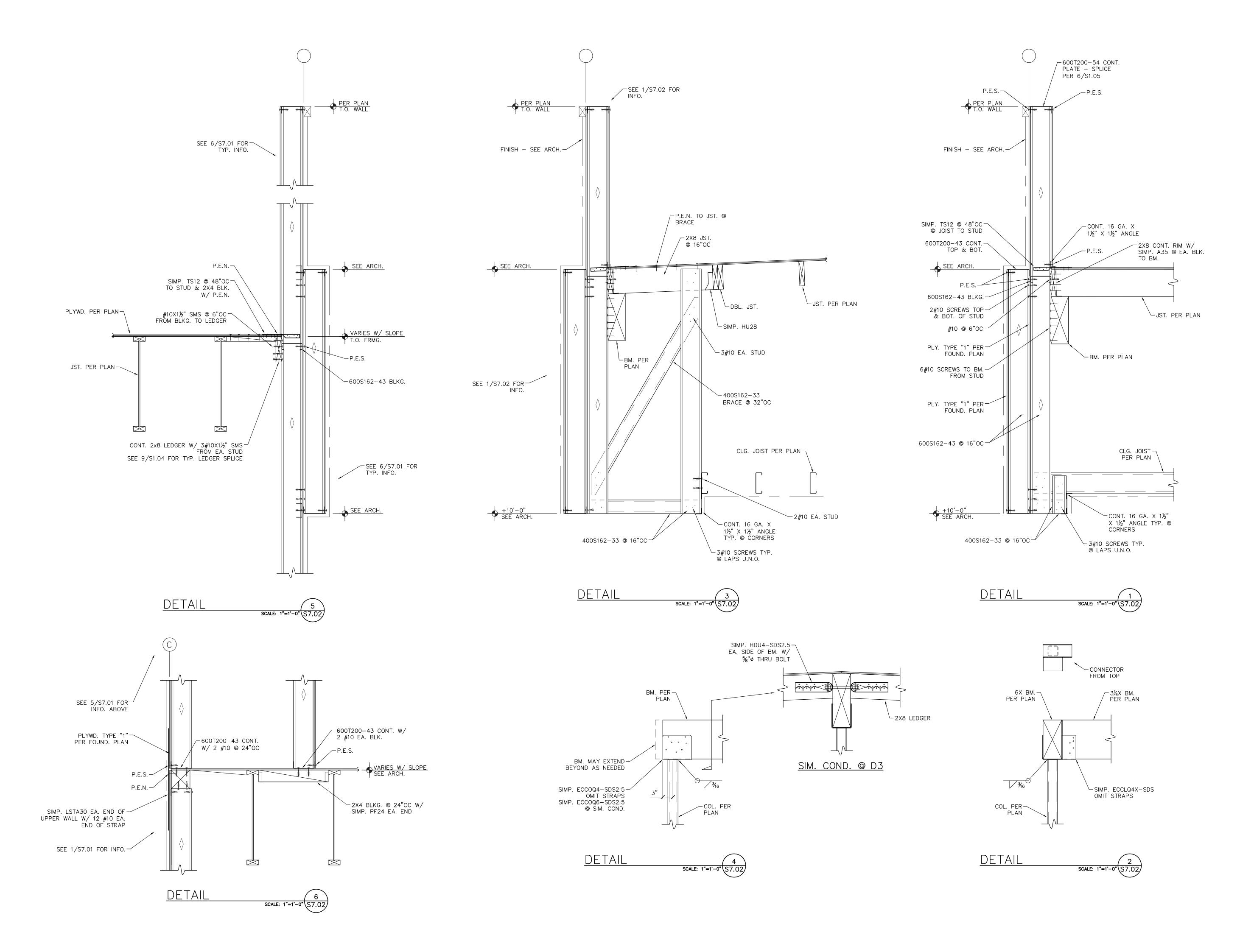
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FRAMING DETAILS

Job No.: **5527**

S7.01

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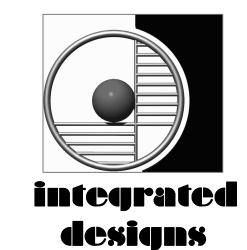
DISTRICT

Project Name & Address:

WELLNESS CENTER

DR. MARTIN LUTHER KING JR. ELEMENTARY

1100 CITADELL, BAKERSFIELD, CA 93307



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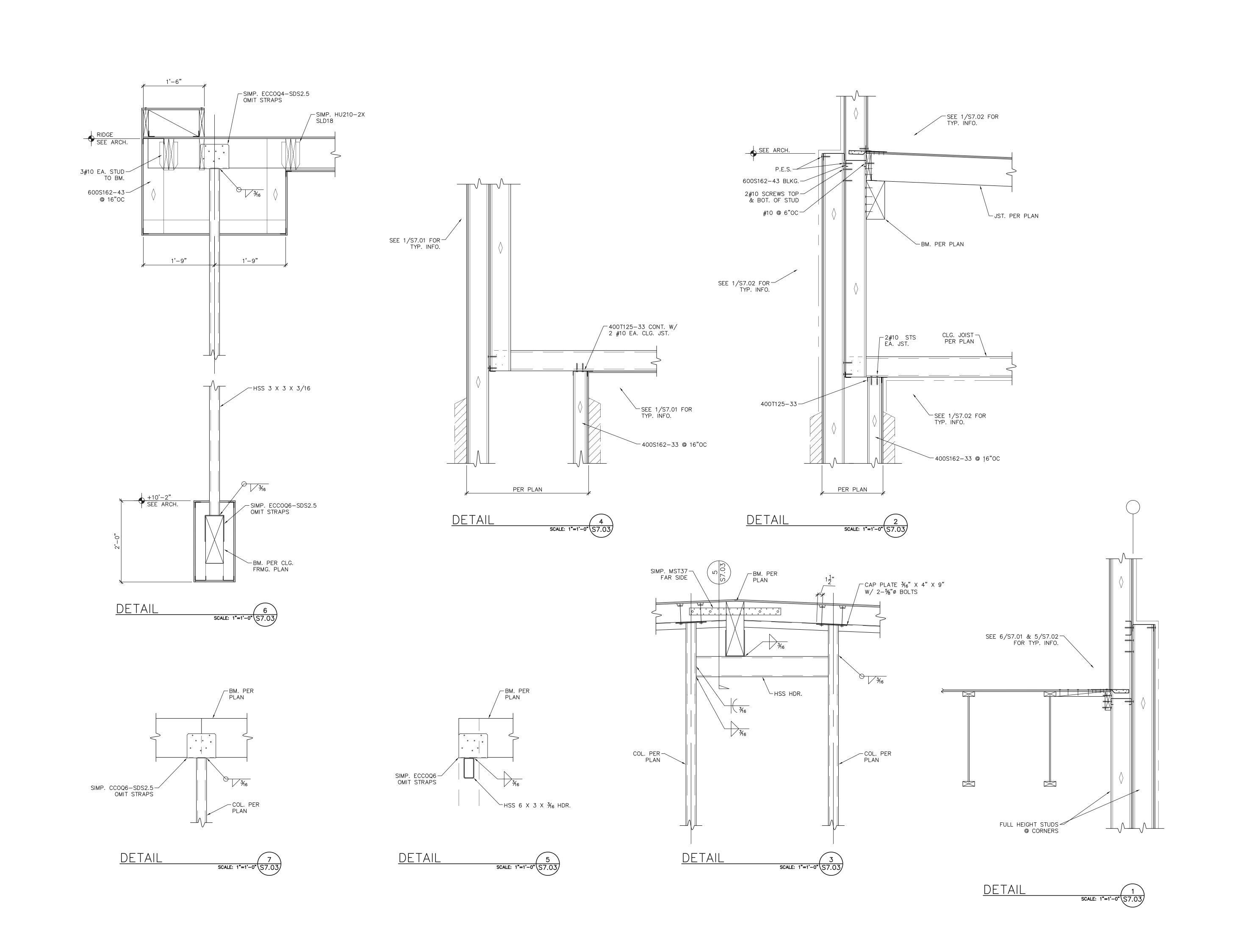
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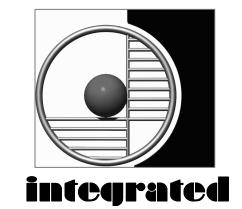
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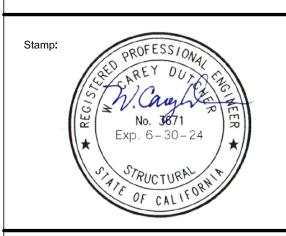
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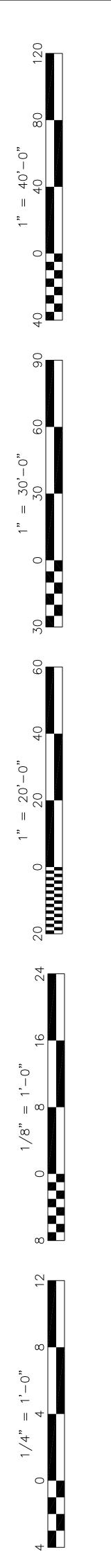
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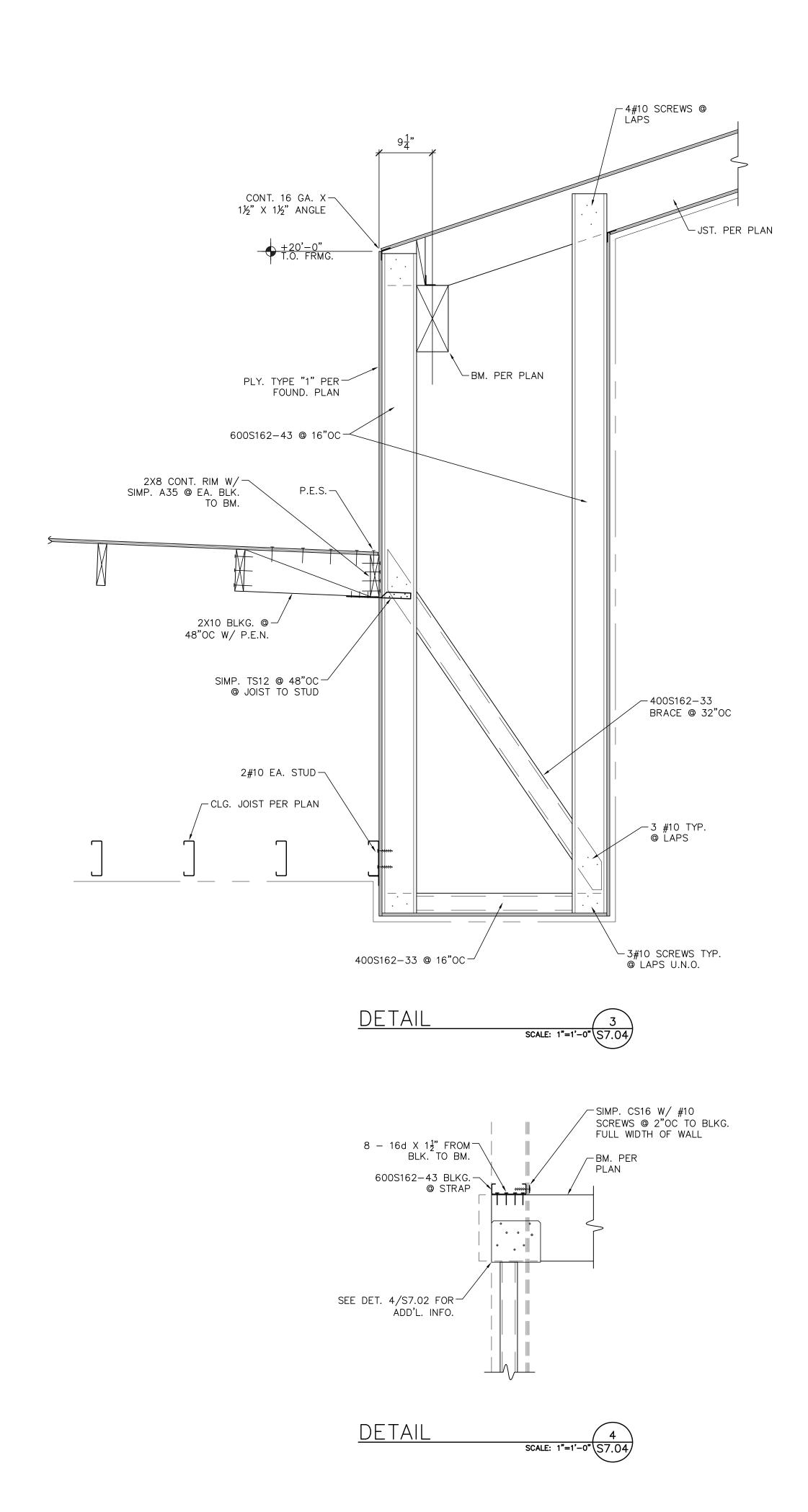
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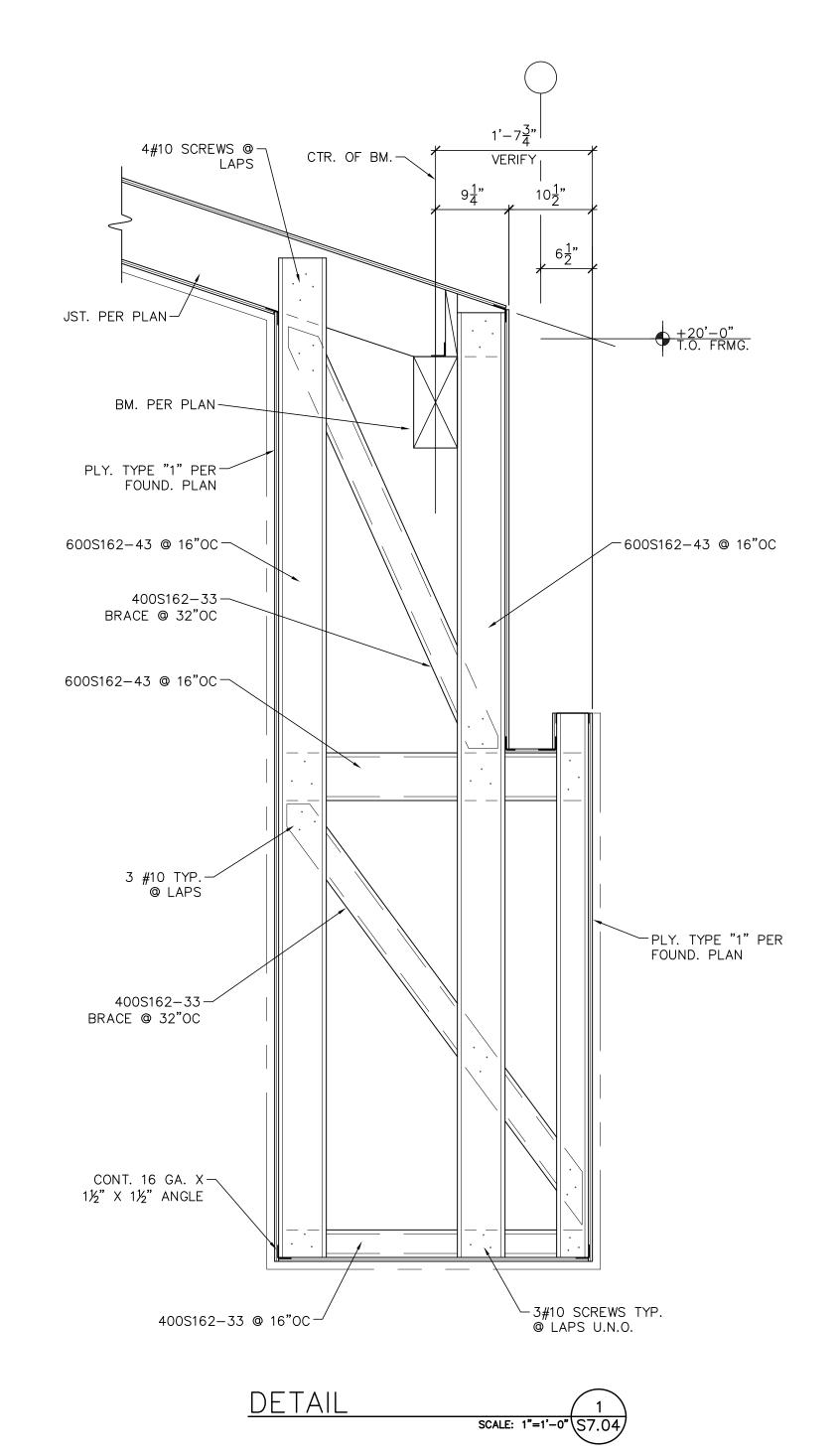
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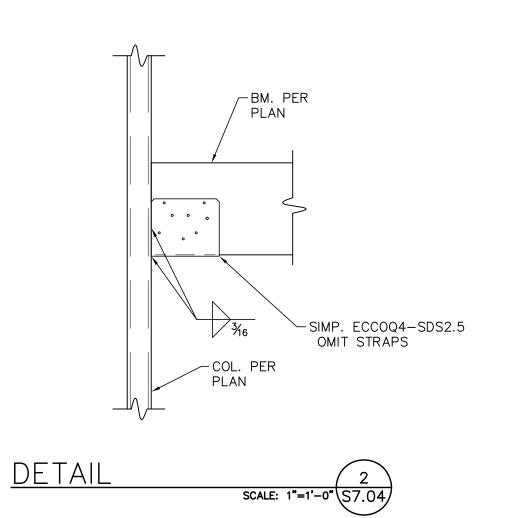
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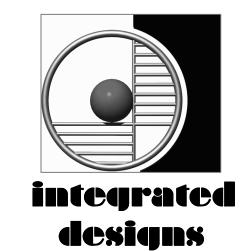
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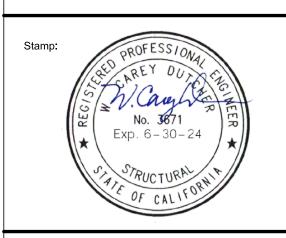
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FRAMING DETAILS

Job No.: **5527**

Sheet No.:

S7.04

Release:

	ı LU					MENT SCHEDULE
MARK	FIXTURE	CW	CONNE(CTIONS W	V	DESCRIPTION
WC 1	WATER CLOSET ADA	1"	-	4"	2"	KOHLER K-96057-SS "HIGHCLIFF ULTRA" WITH ANTIMICROBIAL FINISH, ELONGATED BOWL, FLOOR MOUNT, 1.1 TO 1.6 GPF. SLOAN "ROYAL" 111-1.28 FLUSH VALVE WITH HANDLE POINTED TOWARDS WIDE SIDE OF STALL. BEMIS 1655SSCT EXTRA HEAVY DUTY OPEN FRONT SEAT.
<u>L</u>	LAVATORY ADA	1/2"	1/2"	2"	1-1/2"	KOHLER K-2005 "KINGSTON", 21"x18" WALL HUNG VITREOUS CHINA WITH 4" CENTERS, MCGUIRE 155A GRID DRAIN AND TAILPIECE. CHICAGO 420-T41E2805ABCP 0.5 GPM FAUCET WITH HOT WATER LIMIT SET TO 105F, INTEGRAL INLET CHECK VALVES, SINGLE LEVER WITH VANDAL PROOF NON-AERATING OUTLET. PROVIDE J.R. SMITH 723 CONCEALED ARMS AND STEEL SUPPORT PLATE PER x/M0.11 FOR FIXTURE MOUNTING. REFER TO ARCHITECTURAL PLANS FOR ACCESSIBLE MOUNTING HEIGHT.
S 1	SINK ADA	1/2"	1/2"	2"	1-1/2"	JUST SLF-ADA-2119-A-GR SINGLE COMPARTMENT 18 GAUGE STAINLESS STEEL, 16"x16"x6-1/2" DEEP BOWL SIZE, THREE FAUCET HOLES AT 8" CENTERS, J-35-GS BASKET STRAINER. CHICAGO 786-GN8AE36ABCP 1.5 GPM, 8" SWIVEL GOOSENECK SPOUT WITH NON-AERATING LAMINAR OUTLET, 4" WRIST BLADE HANDLES.
S 2	SINK ADA	1/2"	1/2"	2"	1-1/2"	JUST SLF-ADA-2225-A-GR SINGLE COMPARTMENT 18 GAUGE STAINLESS STEEL, 16"x22"x6-1/2" DEEP BOWL SIZE, THREE FAUCET HOLES ON 4" CENTERS. PROVIDE J-35-GS-316 CUP STRAINER. CHICAGO 786-GN8AE36ABCP 1.5 GPM, 8" SWIVEL GOOSENECK SPOUT WITH NON-AERATING LAMINAR OUTLET, 4" WRIST BLADE HANDLES.
S 3	LAUNDRY SINK	1/2"	1/2"	4"	2"	KOHLER K-19017-3 "GLEN FALLS", 25"x22"x13" DEEP CAST IRON WITH ENAMEL FINISH. PROVIDE K-8799 REMOVABLE BASKET STRAINER WITH OPEN/CLOSE STOPPER. CHICAGO 527-317ABCP POLISHED CHROME DOUBLE BEND FAUCET WITH 6" SWING SPOUT, 4" WRIST BLADE HANDLES.
ST 1	SINK TRIM	1/2"	-	-	-	CHICAGO 712-ABCP GLASS FILLER FAUCET WITH DECK FLANGE, SET ADJUSTABLE FLOW CONTROL TO 1.0 GPM, COATED METAL PUSH-BACK HANDLE WITH LOCKING CLIP.
MS 1	MOP SINK	1/2"	1/2"	3"	2"	KOHLER K-6710 "WHITBY", 28"x28" CORNER FLOOR MOUNT, ACID RESISTANT ENAMELED CAST IRON MOP SINK. PROVIDE K-8940 RIM GUARD AND K-9146 STRAINER DRAIN. CHICAGO 897-CCP WALL MOUNT POLISHED CHROME FAUCET WITH VACUUM BREAKER, PAIL HOOK, WALL BRACE AND INTEGRAL SUPPLY STOPS. FLORESTONE MR-370 60" HOSE WITH WALL BRACKET.
DF 1	DRINKING FOUNTAIN ADA	1/2"	-	2"	1-1/2"	HAWS 1119.14 WITH 1920, BP32 AND 6469 HI-LO WALL MOUNT DRINKING FOUNTAIN WITH BOTTLE FILLER, DRIP TRAY, BACK PANELS, 14 GAUGE STAINLESS STEEL, PUSH BUTTON OPERATION, VANDAL RESISTANT BUBBLER HEADS AND WASTE STRAINERS, INTEGRAL TRAPS. PROVIDE 6700.4 AND 6700.4L MOUNTING PLATES, 6800 MOUNTING SUPPORT. REFER TO ARCHITECTURAL PLANS FOR ACCESSIBLE MOUNTING HEIGHT.
WMB 1	WASHING MACHINE BOX	3/4"	3/4"	2"	1-1/2"	GUY GRAY MODEL T200, 20 GAUGE STEEL RECESSED SUPPLY AND DRAIN BOX WITH WHITE POWDER COAT FINISH. INSTALL VALVES FOR BOTTOM SUPPLY.
HB 1	HOSE BIBB	3/4"	-	-	-	J.R. SMITH 5573 RECESSED WALL FAUCET IN CONCEALED STAINLESS STEEL BOX WITH LOCKING DOOR, VACUUM BREAKER, REMOVABLE HANDWHEEL, AND TEE KEY.
HB 2	HOSE BIBB	3/4"	-	-	-	WOODFORD MODEL Y24-BR ROUGH BRASS STANDPIPE FAUCET, 34HF ANTI-SIPHON VACUUM BREAKER, METAL HANDWHEEL, AND LOOSE TEE KEY.
WHA 1	WATER HAMMER ARRESTER	1/2"	-	-	-	SIOUX CHIEF HYDRA-RESTER 652-AS, SEAMLESS COPPER CHAMBER APPROVED FOR CONCEALED INSTALLATION, UP TO 11 FIXTURE UNITS. INSTALL IN UPWARD POSITION.
FD 1	FLOOR DRAIN	1/2"	-	2"	1-1/2"	J.R. SMITH 2005(B)-P050-BHP 5" SQUARE NICKEL BRONZE STRAINER HEAD, DUCO CAST IRON BODY WITH FLASHING COLLAR, TRAP PRIMER CONNECTION, HEEL PROOF GRATE.
TP 1	TRAP PRIMER	1/2"	-	-	-	PRECISION PLUMBING PRODUCTS P1-500 VALVE. PROVIDE DU-U DISTRIBUTION UNIT WHEN MORE THAN ONE DRAIN IS SERVED, UP TO 4 DRAINS PER DISTRIBUTION UNIT. PLUG UNUSED OUTLETS AS REQUIRED. PROVIDE WALL ACCESS DOOR. REFER TO PLANS FOR NUMBER OF DRAINS SERVED.
RD 1	COMBINATION ROOF & OVERFLOW DRAIN	-	-	-	-	J.R. SMITH SERIES 148 COMBINATION ROOF AND OVERFLOW DRAIN, CAST IRON, FLASHING CLAMPS, GRAVEL STOPS, AND ENAMEL PAINT FOR OUTDOOR PROTECTION. PROVIDE 148-10 OVERFLOW DOME. SEE PLANS FOR OUTLET SIZE.
WH 1	WATER HEATER	3/4"	3/4"	-	-	STATE PCE-50-20LS, 48 GALLON RATED STORAGE CAPACITY, 61 GPH RECOVERY AT 80°F RISE, 3/4" ASME RATED FACTORY T&P RELIEF VALVE. 26-1/2" DIA x 36 HIGH. OPERATING WEIGHT: 600 LBS ELEC ELEMENTS: 480V, 3 PH, 12 KW
TET 1	THERMAL EXPANSION TANK	3/4"	-	-	-	AMTROL ST-12C THERM-X-TROL, 6.4 GALLON WITH 0.5 ACCEPTANCE FACTOR, ASME RATED WITH INLINE CONNECTIONS, 150 PSIG WORKING PRESSURE, NSF 61 COMPLIANT BLADDER FOR POTABLE WATER USE. OPERATING WEIGHT: 70 LBS
CP 1	CIRCULATING PUMP	-	3/4"	-	-	GRUNDFOS UPS26-99SFC 3-SPEED STAINLESS STEEL INLINE PUMP WITH INTEGRAL CHECK VALVE, 3/4" FLANGE CONNECTIONS, 5 GPM AT 26 FEET HEAD, NSF 61 COMPLIANT. ELEC: 115V, 1 PH, 197 WATTS

PLUMBING FIXTURE & EQUIPMENT SCHEDULE

PACKAGE AIR CC	OND UNIT SCHEE)	
	AC	AC	AC
MARK	1	2	3
VOLTS/PHASE	460/3	460/3	460/3
MCA / MOCP	23 / 25	23 / 25	23 / 25
FLA / LRA	21 / 53	21 / 53	21 / 53
FUSE SIZE	25	25	25
BLOWER:	20	20	20
CFM	1600	1600	1600
DUCT SP (IN WC)	0.8	0.8	0.8
MINIMUM OSA (CFM)	150	150	150
HP / BHP	1 / 0.79	1 / 0.79	1 / 0.79
DRIVE	DIRECT	DIRECT	DIRECT
COOLING:			
TOTAL (MBH)	2 STAGES	2 STAGES	2 STAGES
	44.5	44.5	44.5
SENSIBLE (MBH)	35	35	35
EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67
AMBIENT DB (°F)	105	105	105
REFRIGERANT	R410A	R410A	R410A
CONDENSATE CONN	3/4"	3/4"	3/4"
SEER / EER AT AHRI	16.2 / 12.2	16.2 / 12.2	16.2 / 12.2
HEATING:			
CAPACITY (MBH)	45.6	45.6	45.6
EADB (°F)	70	70	70
AMBIENT DB (°F)	47	47	47
STRIP HEATER (KW)	5.5	5.5	5.5
HSPF / COP	8.3 / 3.7	8.3 / 3.7	8.3 / 3.7
FILTERS:			
RA: QUANTITY / SIZE	4 / 16x16x2	4 / 16x16x2	4 / 16x16x2
TYPE	MERV 13	MERV 13	MERV 13
PD, CLEAN (IN WC)	0.3	0.3	0.3
OSA: QUANTITY / SIZE	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1
ТҮРЕ	WASHABLE	WASHABLE	WASHABLE
MANUFACTURER	CARRIER	CARRIER	CARRIER
TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP
MODEL NUMBER	50GCQM05	50GCQM05	50GCQM05
CONTROL	T'STAT (6)	T'STAT (6)	T'STAT (6)
SERVICE	SEE PLANS	SEE PLANS	SEE PLANS
OP WEIGHT (LBS)	800	800	800
ACCESSORIES	(1),(2),(3),(4),(5),(7)	(1),(2),(3),(4),(5),(7)	(1),(2),(3),(4),(5),(7

110	120.
(1)	INSULATED ROOF CURB TO MATCH ROOF SLOPE; SEE DETAIL 3/M0.11

- (2) HEAVY DUTY CONDENSER COIL GUARD
- (3) HINGED ACCESS PANELS (4) CA COMPLIANT ECONOMIZER WITH FDD, FULLY MODULATING DAMPERS, AND
- BAROMETRIC RELIEF
- (5) DISCONNECT BY DIV 26 ELECTRICAL

(4) ROOF CAP WITH BIRDSCREEN

(5) DISCONNECT BY DIV 26 ELECTRICAL

(6) FOR MOUNTING, SEE DETAIL 4/M0.11

- (6) CONTROLLER INTERFACE FOR COMMUNICATION TO PELICAN WIRELESS THERMOSTAT
- (7) UL 867 AND 2998 LISTED NPBI TYPE ION GENERATOR POWERED BY UNIT, IWAVE-C

	<u></u>	<u></u>	<u></u>	<u></u>
	EF 1	EF 2	EF 3	EF 4
MARK				
CFM	55	95	95	95
ESP (IN WC)	0.25	0.25	0.25	0.25
HP / BHP / WATTS	- / - / 15.6	-/-/19.4	-/-/19.4	-/-/19.4
VOLTAGE/PHASE	115/1	115/1	115/1	115/1
RPM	790	950	950	950
TIP SPEED				
SONES	0.3	0.5	0.5	0.5
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT
MOUNTING	CEILING (6)	CEILING (6)	CEILING (6)	CEILING (6)
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK
TYPE				
MODEL NUMBER	SP-A70	SP-A110	SP-A110	SP-A110
CONTROL	(1)	(1)	(1)	(1)
SERVICE	JANITOR	TOILET	TOILET	TOILET
OP WEIGHT (LBS)	12	17	17	17
ACCESSORIES	(2),(3),(4),(5)	(2),(3),(4),(5)	(2),(3),(4),(5)	(2),(3),(4),(5)
NOTES: (1) INTERLOCK W (2) SOLID STATE I	ITH LIGHTS FAN SPEED CON	NTROLLER		

GRILLE	SCHEDUL	.E
MARK	LOCATION	DESCRIPTION
$\langle A \rangle$	CEILING SUPPLY	TITUS TDC STEEL FULL LOUVER FACE WITH SQUARE OR RECTANGULAR NECK, TYPE 3 BORDER FOR LAY-IN CEILING, STANDARD #26 WHITE FINISH.
$\langle B \rangle$	CEILING SUPPLY	TITUS TDC STEEL FULL LOUVER FACE WITH SQUARE OR RECTANGULAR NECK, TYPE 1 BORDER FOR SURFACE MOUNT, STANDARD #26 WHITE FINISH.
$\langle \circlearrowleft \rangle$	CEILING RETURN	TITUS 50F ALUMINUM EGGCRATE WITH 1/2x1/2x1/2 GRID, TYPE 3 BORDER FOR LAY-IN CEILING, STANDARD #26 WHITE FINISH.
NOTE: ALL	INTERIOR COM	IPONENTS, EVERYTHING BEHIND THE FACE PLATE, SHALL BE PAINTED FLAT BLACK.

INDOOR UNIT SC	HEDULE
	IDU
MARK	
CFM (LOW / MED / HIGH)	280 / 340 / 40
ESP (IN WC)	
MINIMUM OSA (CFM)	0
HP / BHP / WATTS	
VOLTAGE/PHASE	(1)
MCA / MOCP	0.2 /
RPM	
DRIVE	DIRECT
MOUNTING	CEILING (4)
COOLING:	
TOTAL (MBH)	12
SENSIBLE (MBH)	
EADB / EAWB (°F)	80 / 67
AMBIENT DB (°F)	95
REFRIGERANT	R410A
LIQUID LINE SIZE	1/4"
SUCTION LINE SIZE	1/2"
CONDENSATE CONN	1"
SEER / EER AT AHRI	21.5 / 12.7
HEATING:	
CAPACITY (MBH)	12
EADB (°F)	70
AMBIENT DB (°F)	47
HSPF / COP	10.6 / 3.22
FILTERS:	
QUANTITY / SIZE	
TYPE	WASHABLE
PD, CLEAN (IN WC)	
MANUFACTURER	CARRIER
TYPE	HEAT PUMP
MODEL NUMBER	40MBCQ12
CONTROL	T'STAT (3)
· · · · · · · · · · · · · · · · ·	. 5.7.11 (5)

OP WEIGHT (LBS)

(1) INDOOR UNIT RECEIVE POWER FROM OUTDOOR UNIT (2) BUILT-IN CONDENSATE PUMP (3) CONTROLLER INTERFACE FOR

COMMUNICATION TO PELICAN WIRELESS THERMOSTAT

(4) FOR MOUNTING, SEE DETAIL 5/M0.11

ACCESSORIES

45

(2)

OUTDOOR UNI	T SCHED
MARK	ODU 1
MCA / MOCP	15 / 15
FUSE SIZE	15
VOLTAGE/PHASE	208-230/1
MOUNTING	ROOF (5)
COOLING:	
TOTAL (MBH)	12
AMBIENT DB (°F)	95
SEER / EER AT AHRI	21.5 / 12.7
HEATING:	
CAPACITY (MBH)	12
AMBIENT DB (°F)	47
HSPF / COP	10.6 / 3.22
REFRIGERANT	R410A
LIQUID LINE SIZE	1/4"
SUCTION LINE SIZE	1/2"
MANUFACTURER	CARRIER
ТҮРЕ	HEAT PUMP
MODEL NUMBER	38MARBQ12
SERVICE	IDU-1
OP WEIGHT (LBS)	75
ACCESSORIES	(1),(2),(3),(4)

- (1) INDOOR UNIT RECEIVE POWER
- FROM OUTDOOR UNIT (2) CRANKCASE HEATER
- (3) LOW AMBIENT COOLING
- OPERATION TO 40°F
- (4) DISCONNECT BY DIV 26 ELECTRICAL
- (5) FOR MOUNTING, SEE DETAIL

SYMBOL

S

— RS —

DESCRIPTION

-UNIT ABBREVIATION

- GRILLE DESIGNATION

-NUMBER

SUPPLY AIR

RETURN AIR

EXHAUST AIR

DUCT RISER

DUCT DROP

SWITCH

CAP

EXISTING

ACOUSTIC LINED DUCT

SQUARE TO ROUND FITTING

FIRE/SMOKE DAMPER

REFRIGERANT LIQUID

REFRIGERANT SUCTION

ABOVE FINISH FLOOR

(E) TO BE REMOVED

POINT OF CONNECTION

OUTSIDE AIR

TYPICAL

DUCT SMOKE DETECTOR

VOLUME CONTROL DAMPER

THERMOSTAT AT 48" MAXIMUM TO TOP OF BOX

A 10x10-3 120 NECK SIZE & BLOW

- EQUIPMENT DESIGNATION

GENERAL PLUMBING **AND HVAC NOTES**

- THE PLANS AND SPECIFICATIONS DESCRIBE THE PLUMBING WORK AND HVAC WORK OF THIS PROJECT. ANY ITEMS MENTIONED IN ONE PART SHALL BE AS BINDING AS THOUGH MENTIONED IN BOTH. PROVIDE THE NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS AND SERVICES FOR A COMPLETE FUNCTIONING SYSTEM.
- ALL LOCATIONS OF EXISTING UTILITIES, DUCTWORK, AND EQUIPMENT SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK, INCLUDING EXACT LOCATION, SIZE, SERVICE, AND ROUTING OF EXISTING UTILITIES AND DUCTWORK. CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY EXISTING CONDITIONS WHICH MAY CONFLICT WITH INFORMATION PROVIDED IN CONSTRUCTION DOCUMENTS.
- PLUMBING AND HVAC LAYOUTS INDICATED ON PLANS ARE DIAGRAMMATIC ONLY. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. EXACT LOCATION OF EQUIPMENT, DUCTWORK, AND PIPES SHALL BE COORDINATED WITH OTHER TRADES.
- PROVIDE CLEANOUTS PER CPC SECTIONS 707, 719 AND 1101.13.
- PROVIDE PLUMBING VENT TERMINATION PER CPC SECTION 906. PLUMBING VENTS SHALL TERMINATE NOT LESS THAN TEN FEET FROM, OR NOT LESS THAN THREE FEET ABOVE, AIR INTAKE OR VENT SHAFT. COORDINATE EXACT LOCATION WITH OTHER TRADES.
- PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE PER CBC SECTIONS 714 AND 717. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE FIRE MARSHAL. SEE ARCHITECTURAL PLANS FOR LOCATION OF FIRE RATED ASSEMBLIES.
- THE SEISMIC RESTRAINT OF MECHANICAL EQUIPMENT, DUCTWORK, AND PIPES SHALL CONFORM TO CBC CHAPTER 16A.
- PROVIDE FRESH AIR INTAKE SEPARATION FROM EXHAUST TERMINATION AND PLUMBING VENT TERMINATION PER CMC SECTIONS 502, 510.9 AND 519.5, AND CPC SECTION 906. COORDINATE WITH OTHER TRADES.

MECHANICAL LEGEND

AC-1

EXH

(L)

FSD

SD

VCD

T'STAT

RS

AFF

DEMO

(N)

OSA

POC

TYP

SYMBOL

_ __ __

— GAS ———

— RWL ———

— OL ———

— CD ——

— IW ——

- \triangleright \leftarrow

- DUCTWORK SIZES INDICATED ARE INSIDE DIMENSIONS. WHERE ACOUSTIC LINING IS SHOWN, MAINTAIN THE INSIDE CLEAR DIMENSIONS BY INCREASING THE SHEET METAL SIZE TO ACCOMMODATE LINING THICKNESS.
- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.

S. W. D.

OL

CD

FCO

COTG

GV OR SOV

STR

RED

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122605 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 05/11/2023



BAKERSFIELD CITY SCHOOL **DISTRICT**

1300 BAKER STREET BAKERSFIELD, CA 93305

WELLNESS CENTER

WELLNESS CENTER

1100 CITADEL STREET BAKERSFIELD, CA 93307



designs

by SOMAM, Inc.

ARCHITECTURE **ENGINEERING INTERIOR DESIGN**

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

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Stamp:



GENERAL NOTES -**LEGEND**

5527

M0.01Release: DSA BACKCHECK

PRESSURE RELIEF VALVE

DESCRIPTION

SOIL, WASTE OR DRAIN

VENT

DOMESTIC COLD WATER

DOMESTIC HOT WATER

DOMESTIC HOT WATER RETURN

GAS MAIN BY GAS UTILITY COMPAN'

LOW PRESSURE NATURAL GAS

RAIN WATER LEADER

OVERFLOW LEADER

CONDENSATE DRAIN

DRAIN

INDIRECT WASTE

FLOOR CLEANOUT

CLEANOUT TO GRADE

WALL CLEANOUT

VENT THROUGH ROOF

GATE OR SHUT - OFF VALVE

BALL VALVE

CHECK VALVE

STRAINER

UNION

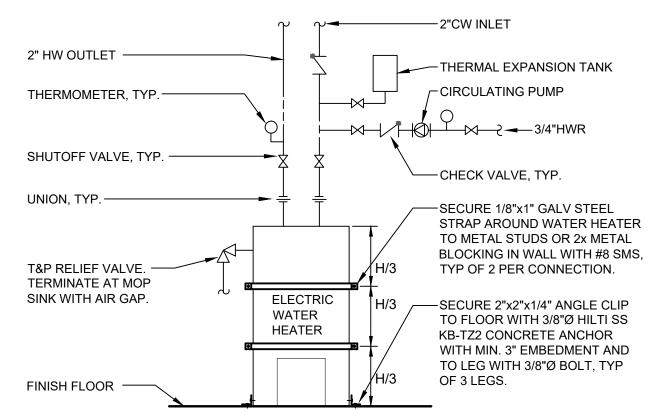
ELBOW UP

ELBOW DOWN

REDUCER

HOSE BIBB

PETES PLUG



ELECTRIC WATER HEATER

MEP COMPONENT ANCHORAGE NOTE

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

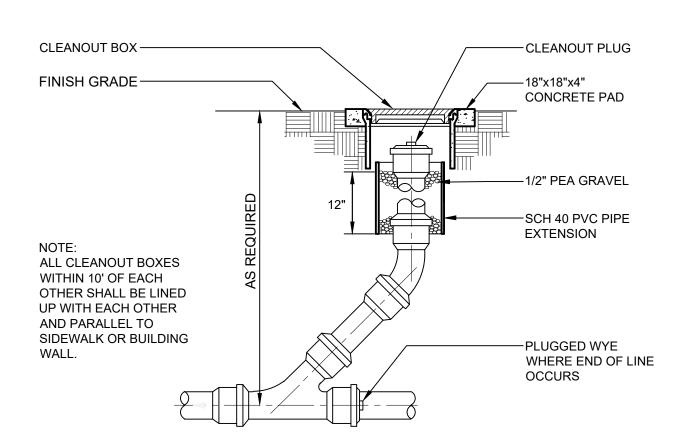
RECEPTACLES HAVING A FLEXIBLE CABLE.

M0.11

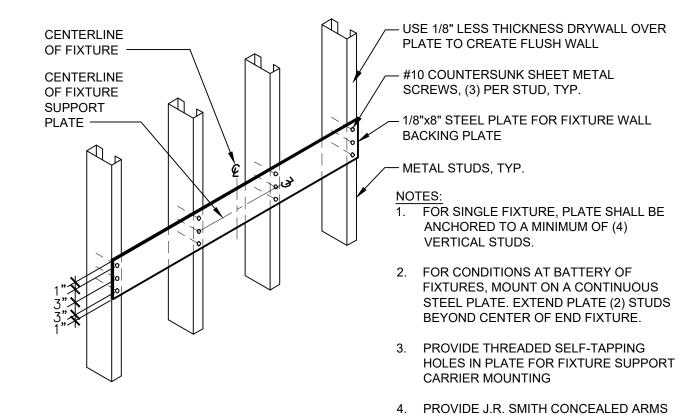
SCALE: N.T.S.

VALVE BOX -- 18"x18"x4" CONCRETE FINISH GRADE — PAD UNION -FROM DISTRIBUTION TO BUILDING SYSTEM NOTE: ALL SHUT-OFF VALVE SCH 40 PVC PIPE BOXES WITHIN 10' OF **EXTENSION WHERE** EACH OTHER SHALL BE VALVE OCCURS LINED UP WITH EACH BELOW BOX OTHER AND PARALLEL TO SIDEWALK OR BUILDING 1/2" PEA GRAVEL

SHUT OFF VALVE IN BOX M0.11 SCALE: N.T.S.



CLEANOUT TO GRADE (COTG) M0.11 SCALE: N.T.S.



MOUNTED TO PLATE FOR LAVATORY

INSTALLATION.

FIXTURE SUPPORT BACKING - METAL STUDS M0.11 SCALE: N.T.S.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER

2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL

BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE

2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED)

TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY

ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT

TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A

CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT

DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY

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

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE

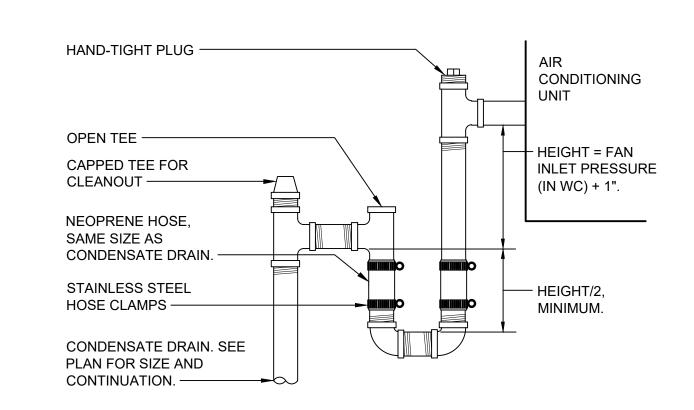
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.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 PREAPPROVED INSTALLATION GUIDE (e.g., OSHPD OPM FOR 2013 CBC OR LATER), 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

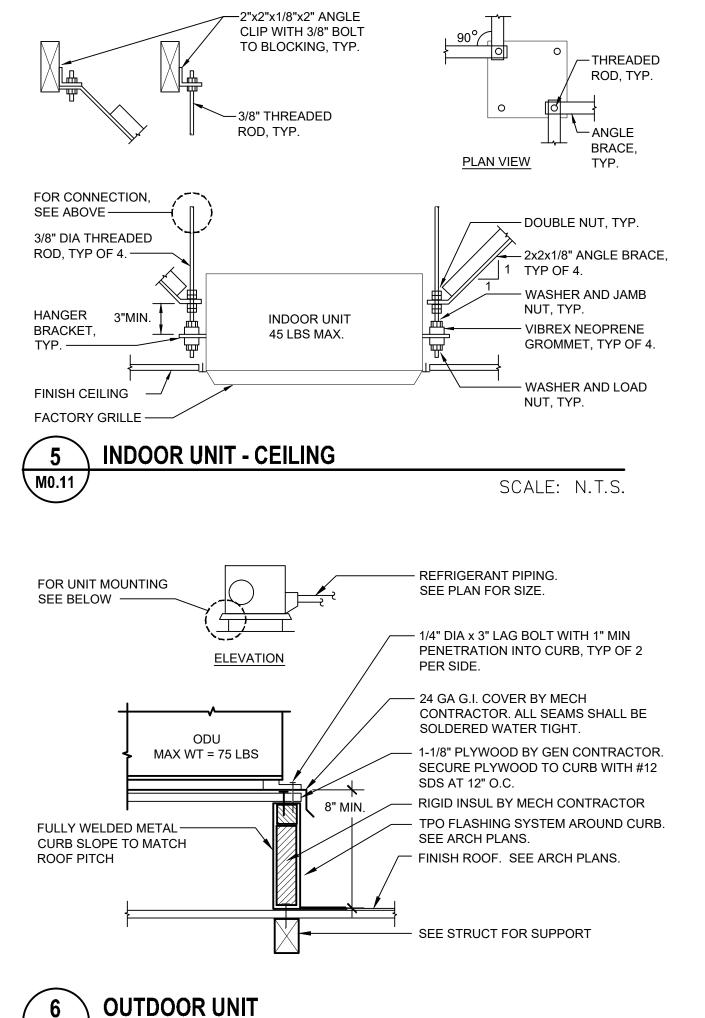
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION MP□ MD□ PP□ E□ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC

MP⊠ MD⊠ PP⊠ E□ OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI PRE-APPROVAL (OPM #) #OPM-0043-13 MASON WEST SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS.

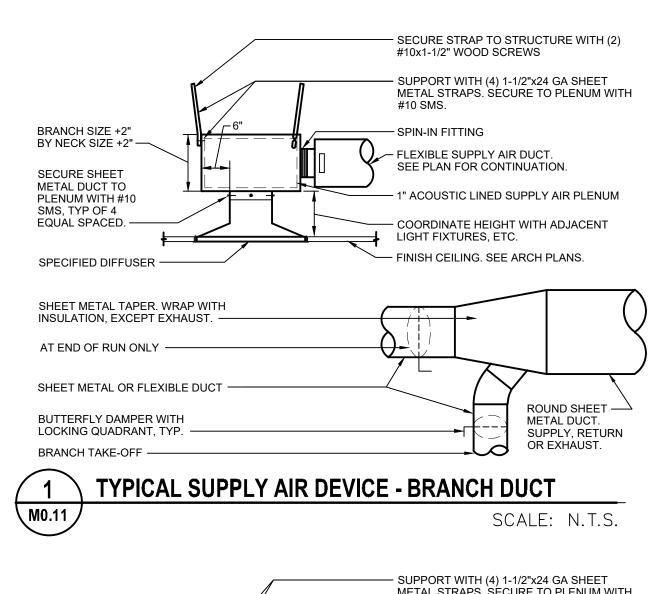
NOTES AND DETAILS.

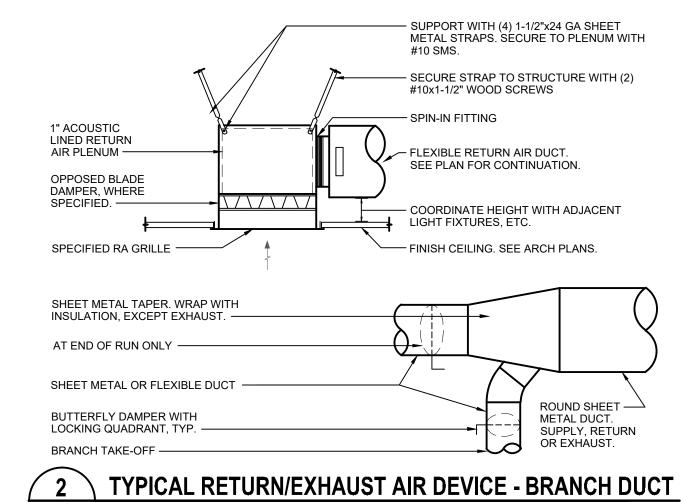


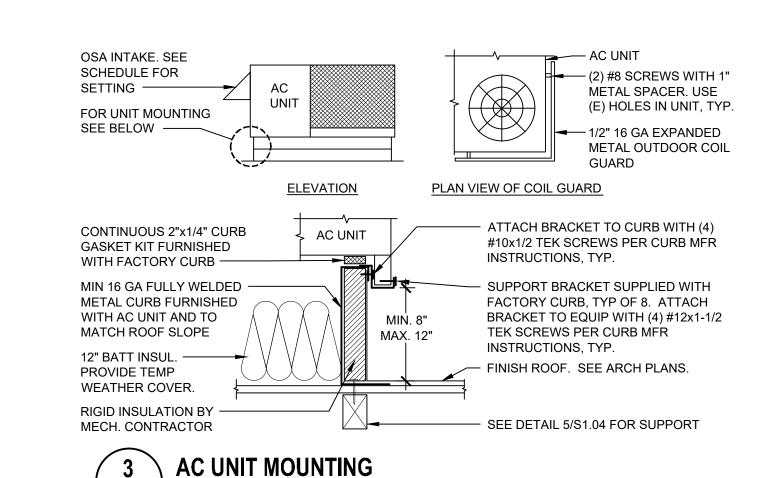
CONDENSATE DRAIN CONNECTION - DRAW THRU M0.11 SCALE: N.T.S.



\ M0.11 ∫



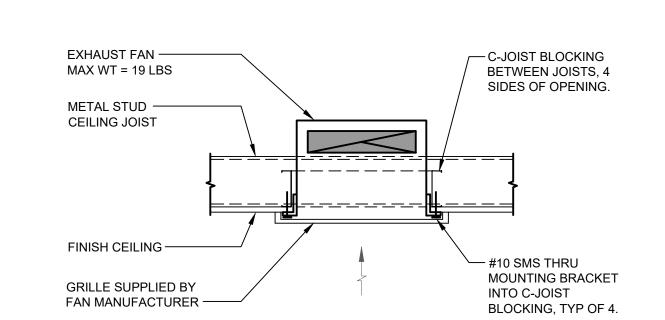




\ M0.11

M0.11

SCALE: N.T.S.



EXHAUST FAN - CEILING

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BAKERSFIELD CITY SCHOOL **DISTRICT**

1300 BAKER STREET BAKERSFIELD, CA 93305

WELLNESS CENTER

Project Address:

DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL

1100 CITADEL STREET BAKERSFIELD, CA 93307



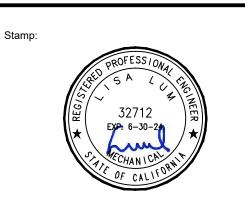
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Sheet Title:

DETAILS

5527

Sheet No.:

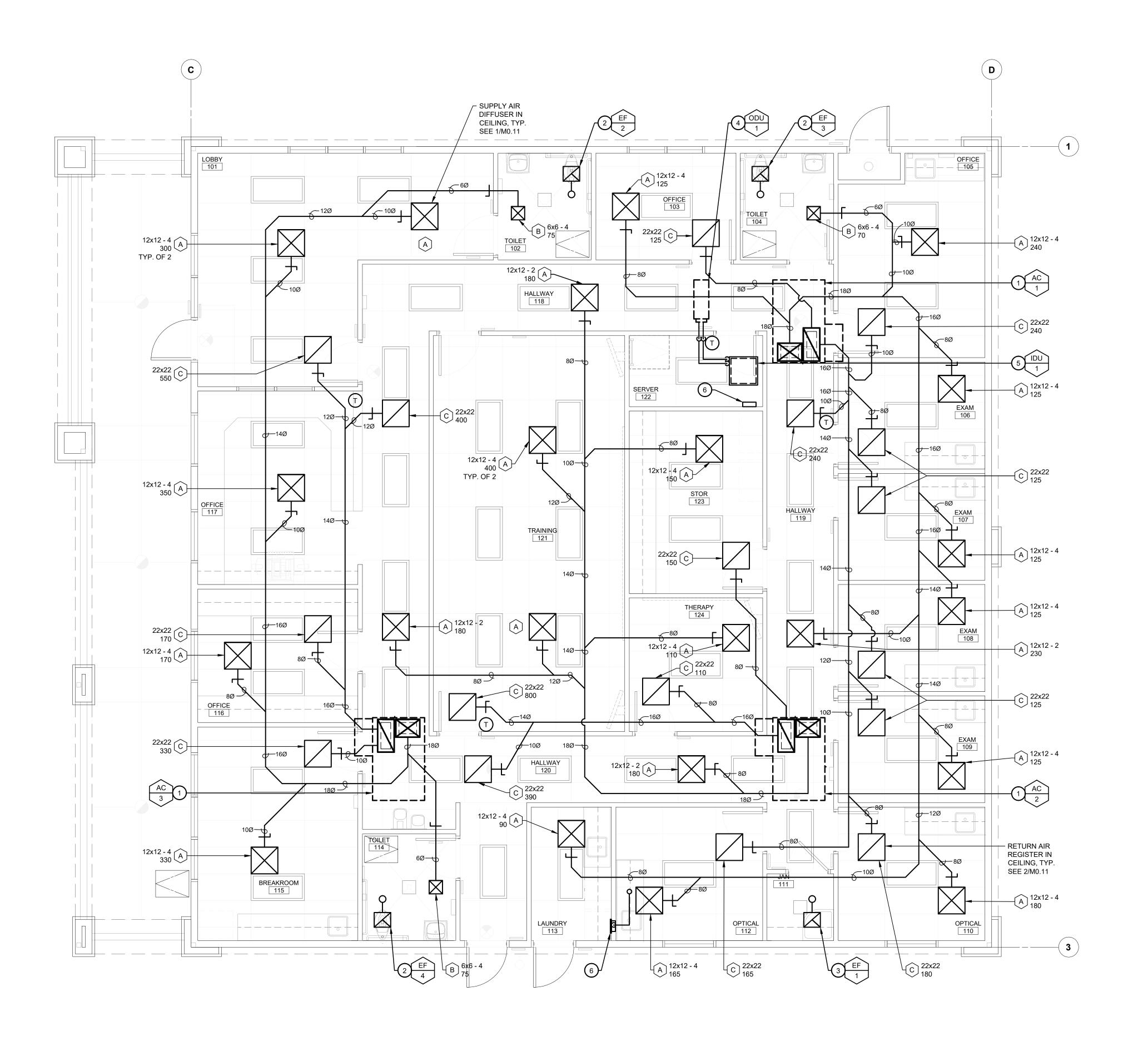
telease: DSA BACKCHECK

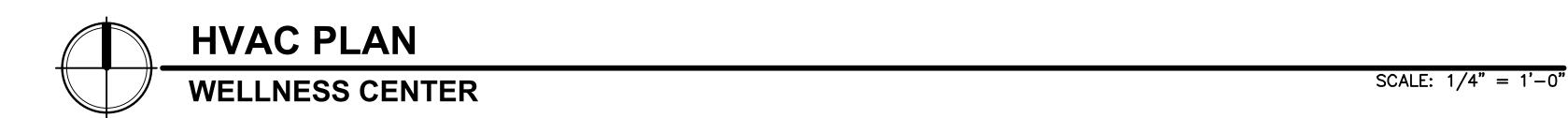
SCALE: N.T.S.

SCALE: N.T.S.

G:\2022frs\22-5527 MLK WELLNESS CENTER\Sheets SEAN PARKER

SCALE: N.T.S.





KEY NOTES

- AC UNIT ON ROOF WITH 18x14(L) SUPPLY AIR PLENUM AND 26x12(L) RETURN AIR PLENUM DROP THRU ROOF. SEE 3/M0.11
- CEILING EXHAUST FAN WITH 6" ROUND EXHAUST DUCT THRU ROOF. PROVIDE FLASHING AND CAP ASSEMBLY. SEE 4/M0.11
- CEILING EXHAUST FAN WITH 5" ROUND EXHAUST DUCT THRU ROOF. PROVIDE FLASHING AND CAP
- ASSEMBLY. SEE 4/M0.11 OUTDOOR UNIT ON ROOF. EXTEND REFRIGERANT
- PIPING TO INDOOR UNIT. SEE 6/M0.11 INDOOR UNIT RECESSED IN CEILING SUSPENDED FROM STRUCTURE. SEE 5/M0.11
- DRYER VENT BOX RECESS IN WALL WITH 4" ALUMINUM DRYER VENT DUCT UP THRU ROOF. PROVIDE FLASHING AND CAP ASSEMBLY. IN-O-VATE TECH DB-350 AND DJK486, OR EQUAL.
- HVAC WIRELESS REPEATER. COORDINATE EXACT LOCATION WITH OWNER. PROVIDE 120/1 WALL

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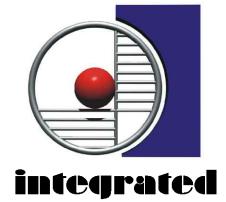
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WELLNESS CENTER

WELLNESS CENTER

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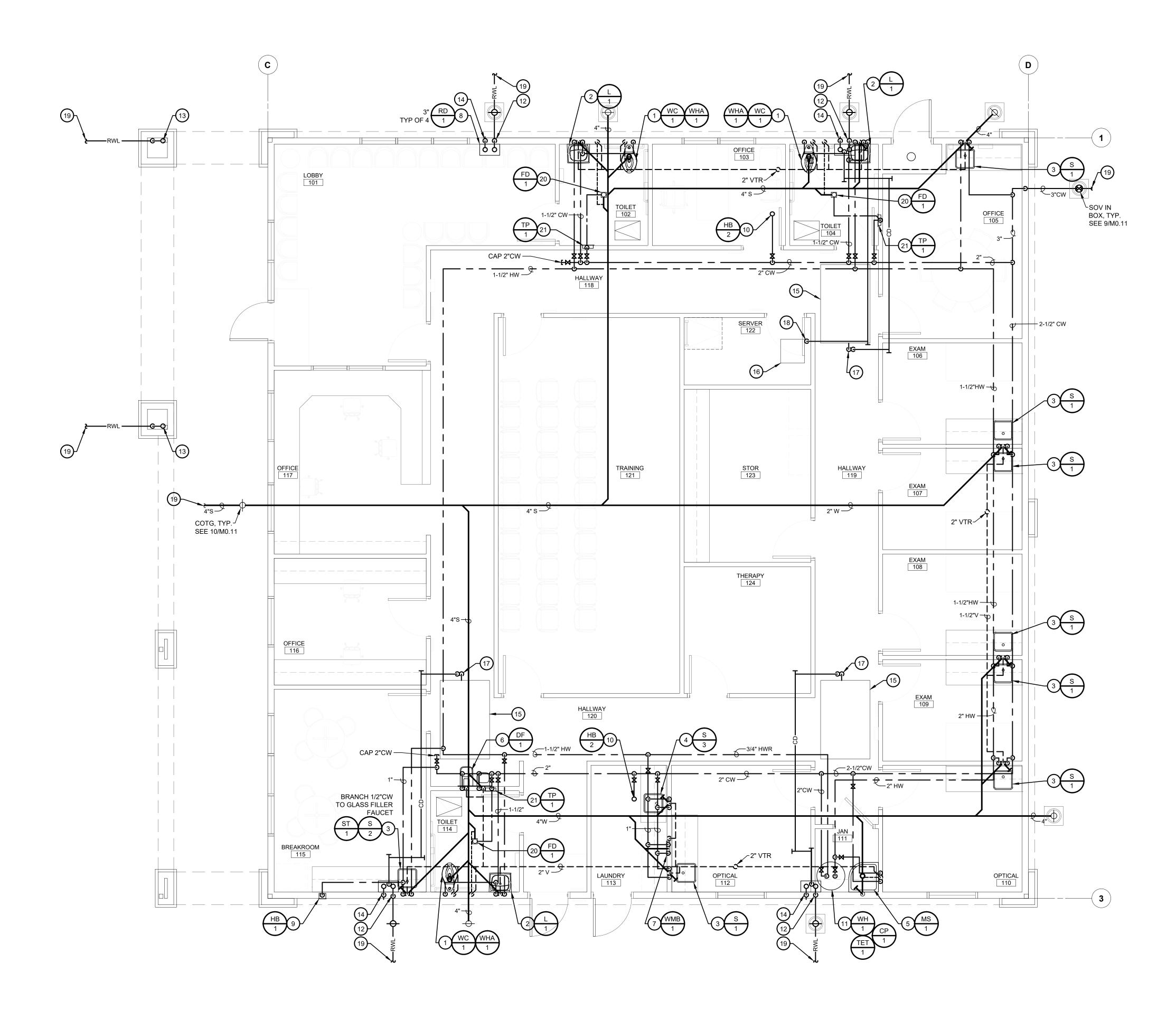
Sheet Title:

HVAC PLAN

5527

M2.11

G:\2022frs\22-5527 MLK WELLNESS CENTER\Sheets SEAN PARKER





SCALE: 1/4" = 1'-0"

KEY NOTES

- 1-1/2"CW, 4"S, 2"V TO WATER CLOSET, TYP.
- 2. 3/4"CW & HW, 2"W, 1-1/2"V TO LAV, TYP.
- 3. 3/4"CW & HW, 2"W WITH WCO, 1-1/2"V TO SINK, TYP.
- 3/4"CW & HW, 4"W WITH WCO, 2"V TO LAUNDRY SINK,
- 3/4"CW & HW, 3"W WITH WCO, 2"V TO MOP SINK, TYP.
- 3/4"CW, 2"W, 1-1/2"V TO DRINKING FOUNTAIN, FOR
- EACH CONNECTION. EXTEND 3/4"CW TO BOTTLE
- WITH SOV FOR CONNECTION TO RESIDENTIAL TYPE WASHING MACHINE.

3/4"CW & HW, 2"W, 1-1/2"V TO WASHING MACHINE BOX

- COMBO ROOF DRAIN AND OVERFLOW DRAIN. SEE ARCH ROOF PLAN FOR EXACT LOCATION.
- 3/4"CW TO HOSE BIBB AT 12" ABOVE FINISH GRADE,
- 3/4"CW UP TO HOSE BIBB ON ROOF WITH SOV, TYP. SEE ARCH PLANS FOR EXACT LOCATION. DO NOT PLACE IN WALKWAY.
- 1. ELECTRIC WATER HEATER WITH CIRCULATING PUMP AND EXPANSION TANK. SEE 13/M0.11
- 12, 3"RWL DOWN IN WALL TO BELOW GRADE. PROVIDE COTG AND CONNECT TO SITE STORM DRAIN SYSTEM,
- 13. CONNECT 3"RWL TO ROOF GUTTER, OFFSET AS NEEDED, DROP DOWN IN COLUMN SPACE TO BELOW GRADE. PROVIDE COTG AND CONNECT TO SITE STORM DRAIN SYSTEM, TYP.
- 14. 3"OL DOWN IN WALL, DISCHARGE THRU WALL AT +12" ABOVE FINISH GRADE WITH 1" EXTENSION PAST WALL, TYP. SEAL WALL PENETRATION WATER TIGHT. PAINT EXPOSED PIPE TO MATCH WALL. SEE ARCH PLANS FOR EXACT LOCATION.
- 15. AC UNIT ON ROOF, TYP. SEE MECH PLANS FOR EXACT LOCATION.
- 6. INDOOR UNIT RECESSED IN CEILING WITH INTEGRAL CONDENSATE PUMP. SEE MECH PLANS FOR EXACT LOCATION.
- CONNECT 3/4"CD TO AC UNIT ON ROOF WITH TRAP PER 12/M0.11 AND DISCHARGE TO ROOF DRAIN WITH
- 18. CONNECT 1" DRAIN TO INDOOR UNIT, OFFSET ABOVE CEILING, AND DISCHARGE TO TAILPIECE OF LAV.
- 19. SEE CIVIL PLANS FOR CONTINUATION
- 20. 1/2"CW BELOW FLOOR FROM TRAP PRIMER, 2"W, 1-1/2"V TO FLOOR DRAIN, TYP.
- 21. 3/4"CW TO TRAP PRIMER WITH SOV IN WALL AT +24" BEHIND WALL ACCESS PANEL. EXTEND 1/2"CW BELOW FLOOR TO FLOOR DRAIN.

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BAKERSFIELD CITY SCHOOL DISTRICT

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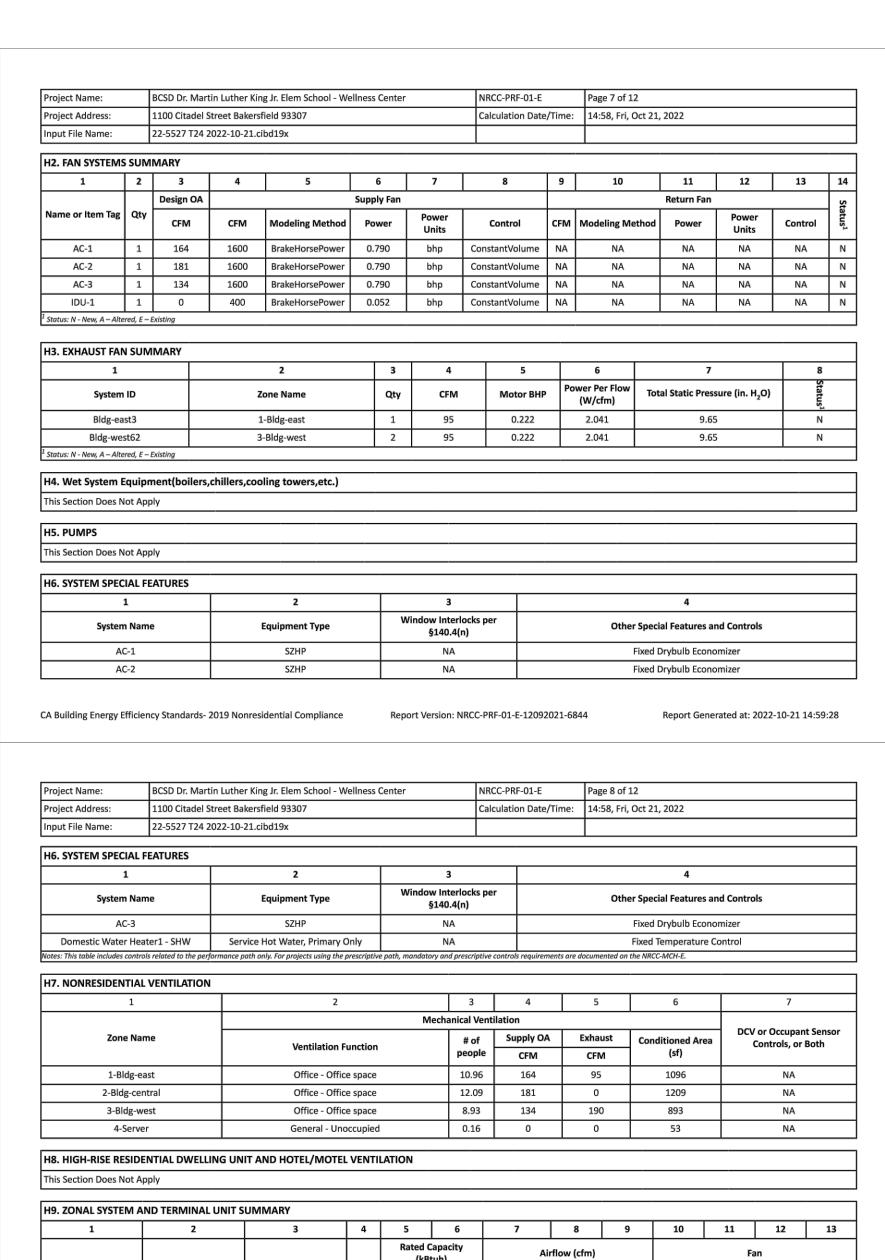


Sheet Title:

PLUMBING PLAN

5527

M3.11



Inner to Etha Managa.													
Input File Name:	22-5527 T24 2022-	10-21.cibd19x											
G1. ENVELOPE GENI	RAL INFORMATION	(conditioned spaces o	nly)										
	1		2				3					4	
Opaque Surfa	es & Orientation	Total Gross	Surface Area	(ft²)		Tot	al Fenestration	on Are	a (ft²)			Window to Wall Ratio (%)	
	North-Facir	ng^1		580 ft ²						58 ft ²			10.0%
	East-Facir	ng ²		610 ft ²						0 ft ²			00.0%
	South-Facir	ng ³		519 ft ²						32 ft ²			06.2%
	West-Facir	ng ⁴		610 ft ²						142 ft ²			23.2%
	То	tal		2,319 ft²						232 ft ²			10.0%
Roof				3,251 ft ²						0 ft ²			00.0%
West-Facing is orie	nted to within 45 deg	rees of true west, inclu								00" south o	of west (
	nted to within 45 deg	rees of true west, inclu								00" south o	of west (
West-Facing is orie	nted to within 45 deg	rees of true west, inclu		00" north of o			N), but exclu				of west ((SW).	
West-Facing is orie	nted to within 45 deg PRODUCT SUMMAR 1	rees of true west, inclu	uding 45°00'0			est (NV	N), but exclu	uding 4	45°00'0	90" south o			
West-Facing is orie	nted to within 45 deg	rees of true west, inclu	45°00'0	00" north of c		est (NV	N), but exclu	uding 4	45°00'0	4		(SW).	
West-Facing is orie	PRODUCT SUMMAR 1 Assembly Name	rees of true west, inclu	45°00'0	2 Roof Pitch		est (NV	N), but exclu 3 Solar Reflecta	uding 4	45°00'0	4 ermal Emitt		(SW). 5 SRI	
West-Facing is orie	PRODUCT SUMMAR 1 Assembly Name	Y 88Gy16	45°00'0	2 Roof Pitch		est (NV	N), but exclu 3 Solar Reflecta	uding 4	45°00'0	4 ermal Emitt		(SW). 5 SRI	
West-Facing is orie	PRODUCT SUMMAR 1 Assembly Name SinglePlyRoofTJlat24R3	Y 88Gy16	45°00'0	2 Roof Pitch	due we	est (NV	N), but exclu 3 Solar Reflecta	ance	45°00'0	4 ermal Emitt		(SW). 5 SRI	10
West-Facing is oriented. G2. CRRC ROOFING G3. OPAQUE SURFA	PRODUCT SUMMAR 1 Assembly Name SinglePlyRoofTJIat24R3 CE ASSEMBLY SUMM	Y 86916	ding 45°00'0	2 Roof Pitch Low-Slope	due we	est (NV	3 Solar Reflecta 0.68	ance	45°00'(4 ermal Emitte 0.85	ance	5 SRI Not Provided	10 Status ¹

NRCC-PRF-01-E

Page 4 of 12

Calculation Date/Time: 14:58, Fri, Oct 21, 2022

Project Name:

Input File Name:

Project Address:

Space Heating

Space Cooling

Indoor Fans

Heat Rejection Pumps & Misc. Domestic Hot Water

Indoor Lighting

BCSD Dr. Martin Luther King Jr. Elem School - Wellness Center

BCSD Dr. Martin Luther King Jr. Elem School - Wellness Center

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft 2-yr)

¹ Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.

1100 Citadel Street Bakersfield 93307

Energy Component

ENERGY STANDARDS COMPLIANCE TOTAL

Miscellaneous Energy Component

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS¹

☐ This project is pursuing CalGreen Tier 1

Input File Name: 22-5527 T24 2022-10-21.cibd19x

1100 Citadel Street Bakersfield 93307

22-5527 T24 2022-10-21.cibd19x

BCSD Dr. Martin Luther King Jr. Elem School - Wellness Center

1100 Citadel Street Bakersfield 93307

Project Name:

				Т				1	
1	Project Location (city)		Bakersfi	eld	8	Standards Versior	l	Compliance2019	
2	CA Zip Code		93307		9	Compliance Softw	are (version)	EnergyPro 8.3	
3	Climate Zone		13		10	Weather File		BAKERSFIELD_723840_	CZ2010.epw
4	Total Conditioned Floor Area in	Scope	3,251 ft	1	11	Building Orientati	on (deg)	(E) 90 deg	
5	Total Unconditioned Floor Area	1	0 ft ²		12	Permitted Scope	of Work	NewEnvelopeAndMech	anical
6	Total # of Stories (Habitable Ab	ove Gr	ade) 1		13	Building Type(s)		Nonresidential	
7	Total # of dwelling units		0		14	Gas Type		NaturalGas	
B. PR	OJECT SUMMARY								
	Instructions: Table B shows which t application.	ch build	ling components	are included in the performance calcul	ation.	If indicated as no	t included, the projec	t must show compliance	prescriptively if within
	E	Building	Components Co	mplying via Performance		_	Buildin	g Components Complyir	g Prescriptively
		\boxtimes	Performance	Coursed Decrees Courses with		Performance			Y eligible for prescriptive he NRCC form listed if with
Envelo	pe (see Table G)		Not Included	Covered Process: Commercial Kitchens		Not Included		mit application (i.e. com	pliance will not be shown
Masks	anical (see Table H)	\boxtimes	Performance	Covered Process: Computer Rooms		Performance	Indoor Lighting (Und	conditioned)§140.6	NRCC-LTI-E
ivieciia	inical (see Table H)		Not Included	Covered Process: Computer Rooms		Not Included	Outdoor Lighting §1	40.7	NRCC-LTO-E
Domo	stic Hot Water (see Table I)	\boxtimes	Performance	Covered Process: Laboratory Exhaust		Performance	Sign Lighting §140.8	ı	NRCC -LTS-E
Dome	stic not water (see Table I)		Not Included	Covered Process. Laboratory Exhaust	\boxtimes	Not Included		Mandatory Measu	res
Lightin Table I	ng (Indoor Conditioned, see K)		Performance				escalator requireme	tems, commissioning, so ents are mandatory and i i.e. compliance will not b	should on the NRCC form
		\boxtimes	Not Included	1			Electrical Power Dis	tribution S110.11	NRCC-ELC-E
Solar T	Thermal Water Heating (see		Performance				Commissioning S12	0.8	NRCC-CXR-E
Table I)		Not Included	1			Solar Ready S110.10)	NRCC-SRA-E

COMPLIES

Standard Design (TDV)

15.88

		I						
CA Zip Code		93307		9	Compliance Softw	are (version)	EnergyPro 8.3	
Climate Zone		13		10	Weather File		BAKERSFIELD_723840_0	CZ2010.epw
Total Conditioned Floor Area in	Scope	3,251 ft	2	11	Building Orientati	on (deg)	(E) 90 deg	
Total Unconditioned Floor Area	1	0 ft ²		12	Permitted Scope of	of Work	NewEnvelopeAndMech	anical
Total # of Stories (Habitable Ab	ove Gr	ade) 1		13	Building Type(s)		Nonresidential	
Total # of dwelling units		0		14	Gas Type		NaturalGas	
ROJECT SUMMARY								
e Instructions: Table B shows which it application.	ch build	ling components	are included in the performance calcul	ation.	If indicated as no	t included, the project	t must show compliance	prescriptively if within
E	Building	Components Co	omplying via Performance			Building	g Components Complyin	g Prescriptively
		Performance			Performance		ng components are ONLY	
lope (see Table G)		Not Included	Covered Process: Commercial Kitchens	×	Not Included		mit application (i.e. com	ne NRCC form listed if withi pliance will not be shown
		Performance	Coursed December Course to a December		Performance	Indoor Lighting (Und	conditioned)§140.6	NRCC-LTI-E
nanical (see Table H)		Not Included	Covered Process: Computer Rooms	Ø	Not Included	Outdoor Lighting §1	40.7	NRCC-LTO-E
astic Hat Water (see Table I)		Performance	Coursed Decease Laboratory Eybourt		Performance	Sign Lighting §140.8		NRCC -LTS-E
estic Hot Water (see Table I)		Not Included	Covered Process: Laboratory Exhaust	\boxtimes	Not Included		Mandatory Measur	res
ing (Indoor Conditioned, see : K)		Performance				escalator requireme	ems, commissioning, sol nts are mandatory and s .e. compliance will not b	hould on the NRCC form
	\boxtimes	Not Included	1			Electrical Power Dist	tribution S110.11	NRCC-ELC-E
Thermal Water Heating (see		Performance	1			Commissioning S120	0.8	NRCC-CXR-E
		Not Included	7			Solar Ready S110.10	1	NRCC-SRA-E

NRCC-PRF-01-E Page 1 of 12

NRCC-PRF-01-E Page 2 of 12

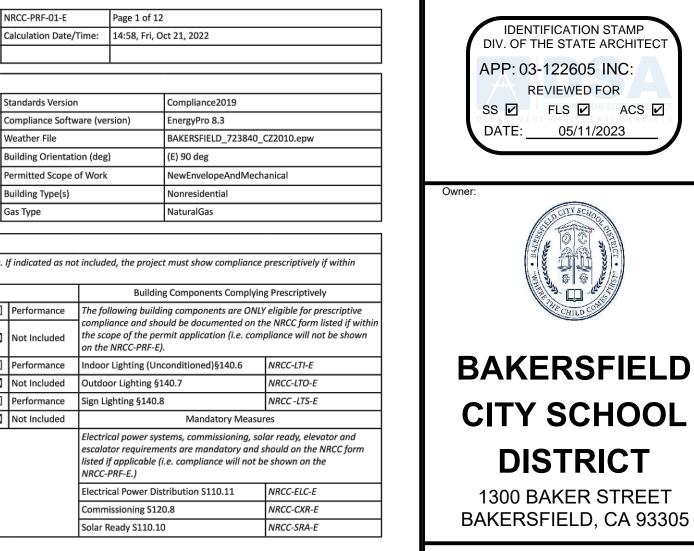
Calculation Date/Time: 14:58, Fri, Oct 21, 2022

Proposed Design (TDV)

☐ This project is pursuing CalGreen Tier 2

Standard Design (TDV) Proposed Design (TDV) Compliance Margin (TDV)¹

299.53



Compliance Margin (TDV)1

21.32 (6.6%)

DISTRICT

WELLNESS CENTER

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

REVIEWED FOR

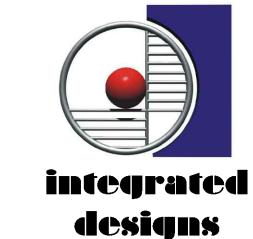
SS 🗹 FLS 🗹 ACS 🗹

APP: 03-122605 INC:

DATE: <u>05/11/2023</u>

WELLNESS CENTER

1100 CITADEL STREET BAKERSFIELD, CA 93307



by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

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Stamp:



Sheet Title:

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Release: DSA BACKCHECK G:\2022frs\22-5527 MLK WELLNESS CENTER\Sheets SEAN PARKER

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		_				Med	hanical Ve						DCV or Oc	cupant	Sone
Z	one Name			Ventilation	n Function		# of people	Supply OA CFM	Exh:		Conditioned (sf)	d Area		ols, or Bo	
1	-Bldg-east			Office - Of	ffice space		10.96	164	9	5	1096			NA	
2-	3ldg-central			Office - Of	ffice space		12.09	181	()	1209			NA	
3	-Bldg-west			Office - Of	ffice space		8.93	134	19	90	893			NA	
	4-Server			General - L	Jnoccupied		0.16	0	()	53			NA	
H8. HIGH-RISE	RESIDENTIA	DWELLING UN	IT AND H	OTEL/MOT	TEL VENTIL	ATION									
This Section Doe	s Not Apply														
H9. ZONAL SYS	TEM AND TE	RMINAL UNIT S	UMMAR	Υ											
1		2		3	4	5	6	7	8	9	10	11	. 1	.2	13
C ID						Rated Car (kBtul		Ai	rflow (cfm)				Fan		
System ID	, ,	Zone Name	Syst	em Type	Qty	Heating	Cooling	Design	Min.	Min. Rat	tio Powe	Pow Uni	1 1 1 1 1 1 1	cles	vs
1-Bldg-east-T	rm	1-Bldg-east	Unc	ontrolled	1	NA	NA	1600	NA	0.00	0.790	0 bh	p N	IA	
I Diag case i								1000	NI A	0.00	0.700	0 66			
2-Bldg-central		-Bldg-central	Unc	ontrolled	1	NA	NA	1600	NA	0.00	0.790	0 bh	b v	IA	
	-Trm 2	-Bldg-central 3-Bldg-west		ontrolled ontrolled	1 1	NA NA	NA NA	1600	NA NA	0.00	0.790			IA IA	
2-Bldg-central 3-Bldg-west-1 4-Server-Tri	Trm 2		Unc	ontrolled	1 1	NA NA	NA NA		NA NA	-	0.790	0 bh	p N	IA IA	
2-Bldg-central 3-Bldg-west-1 4-Server-Tri CA Building Energ	Trm 2- Trm 3 n	3-Bldg-west 4-Server andards- 2019 No	Unci Unci	ontrolled ontrolled al Complian	1 1	NA NA Report Versi	NA NA on: NRCC-	1600 400 PRF-01-E-12092	NA NA 021-6844	0.00	0.790 0.052 Repor	0 bh	p N	IA IA	
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2-Bldg-central 3-Bldg-west-1 4-Server-Tri CA Building Energ Project Name: Project Address:	y Efficiency St. BCSI 1100	3-Bldg-west 4-Server andards- 2019 No Dr. Martin Luthe	Unca Unca nresidentia r King Jr. E kersfield 9	ontrolled ontrolled al Compliance lem School -	1 1	NA NA Report Versi	NA NA on: NRCC-	1600 400 PRF-01-E-12092	NA NA 021-6844	0.00 0.00	0.790 0.052 Repor	0 bh	p N	IA IA	
2-Bldg-central 3-Bldg-west-1 4-Server-Tri CA Building Energ	y Efficiency St. BCSI 1100 22-5	3-Bldg-west 4-Server andards- 2019 No Dr. Martin Luthe Citadel Street Ba 527 T24 2022-10-	Unca Unca nresidentia r King Jr. E kersfield 9	ontrolled ontrolled al Compliance lem School -	1 1	NA NA Report Versi	NA NA on: NRCC-	1600 400 PRF-01-E-12092 JRCC-PRF-01-E	NA NA 021-6844	0.00 0.00	0.790 0.052 Repor	0 bh	p N	IA IA	
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2-Bldg-central 3-Bldg-west-1 4-Server-Tri CA Building Energ Project Name: Project Address: Input File Name: H10. EVAPORA This Section Doe H11. HEAT REC This Section Doe	BCSI 1100 22-5 TIVE COOLEF s Not Apply OVERY SUM s Not Apply TER EQUIPM	3-Bldg-west 4-Server andards- 2019 No Dr. Martin Luthe Citadel Street Ba 527 T24 2022-10- R SUMMARY MARY	Unco Unco nresidentia r King Jr. E kersfield 9 21.cibd19	ontrolled ontrolled al Compliance lem School - 3307	1 1 1 cce	NA NA Report Versi enter	NA NA On: NRCC-	1600 400 PRF-01-E-12092 IRCC-PRF-01-E Calculation Date/	NA N	0.00 0.00 ge 9 of 12 :58, Fri, Octoor	0.790 0.052 Repor	0 bhj 2 bhj	p N p N d at: 2022-1	mp Lc	4:59:2

Report Version: NRCC-PRF-01-E-12092021-6844

Report Generated at: 2022-10-21 14:59:28

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

20 0

1			2	3	4	5	6	7	8		9		10
Surface N	lame	Surfa	се Туре	Area (ft²	Framing Type	Cavity R-Value	Continuou R-Value	s Units	Value	Description	of Assemb	ly Layers	Status ¹
SinglePlyRoofTJI:	at24R38Tb9	R	oof	3058	Wood	38	NA	U-Factor	0.028	Vapor seal - Plyw Wood framed Air - Cavity - W	rood - 5/8 ii roof, 24in. R-38	- 1/16 in. n. OC, 9.25in., eiling - 4 in.	S ₁
Building Energy Efficie	ncy Standards- 201	9 Nonresiden	ial Compliand	ce	Report Vers	ion: NRCC-PF	RF-01-E-120920	021-6844		Report Generate	d at: 2022-	10-21 14:59:	28
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oject Name: oject Address:	BCSD Dr. Martin L 1100 Citadel Stree			Wellness C	enter		CC-PRF-01-E culation Date/		e 5 of 12 68, Fri, Oct 21,	2022			
put File Name:	22-5527 T24 2022						culation bate,	111101	,0,11,00121,				
ODAQUE CUREACE	ACCEPABLY CLINA												
3. OPAQUE SURFACE	: ASSEMBLY SUM		2	3	4	5	6	7	8	1	9		10
					Framing		Continuou	•					
Surface N	iame	Surra	се Туре	Area (ft²	Type	R-Value	R-Value	Units	Value	Description			Status ¹
stucco6inMtlStud	16ocR19Ta11	Exter	iorWall	2319	Metal	19	NA	U-Factor	0.139	Building Plyw Metal framed	R-19 n Board - 5/	16 in. n. OC, 5.5in., '8 in.	N
SlabOnGrad	e4in-14	Undergr	oundFloor	3251	NA	0	NA	F-Factor	0.73	Slab Type = U	nheatedSla	bOnGrade = None	N
SinglePlyRoofTJIa	nt24R38Gy16	R	oof	193	Wood	38	NA	U-Factor	0.028	Single Ply Vapor seal - Plyw Wood framed Air - Cavity - W	Roofing - : plastic film rood - 5/8 ii roof, 24in. R-38	1/4 in. - 1/16 in. n. OC, 9.25in., eiling - 4 in.	N
Ass	1 sembly Name DoorInsulated-54					2 Overall U-1 0.500					3 Status ¹ N		
A ss Metal	1 Sembly Name DoorInsulated-54	∂ Nonresiden	ial Complianc	ce	Report Vers	0.500		021-6844		Report Generate	Status ¹		228
A ss Metal	1 Sembly Name DoorInsulated-54	9 Nonresiden	ial Complianc	ce	Report Vers	0.500		021-6844		Report Generate	Status ¹		28
Ass Metal Building Energy Efficie	1 Sembly Name DoorInsulated-54 ncy Standards- 201 BCSD Dr. Martin L	uther King Jr.	Elem School -		•	Overall U-1 0.500	CC-PRF-01-E	Pag	e 6 of 12		Status ¹		228
Ass Metal Building Energy Efficie oject Name: oject Address:	ncy Standards- 201 BCSD Dr. Martin L 1100 Citadel Street	uther King Jr. et Bakersfield	Elem School - 93307		•	Overall U-1 0.500	RF-01-E-12092(Pag			Status ¹		228
Ass Metal Building Energy Efficie Dject Name: Dject Address: Dut File Name:	ncy Standards- 201 BCSD Dr. Martin L 1100 Citadel Street 22-5527 T24 2022	uther King Jr. et Bakersfield -10-21.cibd1:	Elem School - 93307		•	Overall U-1 0.500	CC-PRF-01-E	Pag	e 6 of 12		Status ¹		228
Ass Metal Building Energy Efficie oject Name: oject Address: put File Name:	ncy Standards- 201 BCSD Dr. Martin L 1100 Citadel Street 22-5527 T24 2022	uther King Jr. et Bakersfield -10-21.cibd1	Elem School - 93307 9x		enter	Overall U-1 0.500	CC-PRF-01-E	Pag Time: 14:	e 6 of 12 68, Fri, Oct 21,	2022	N N d at: 2022-	10-21 14:59:	
Ass Metal Building Energy Efficie oject Name: oject Address: put File Name: 5. FENESTRATION AS	ncy Standards- 201 BCSD Dr. Martin L 1100 Citadel Street 22-5527 T24 2023	uther King Jr. et Bakersfield -10-21.cibd1: RY	Elem School - 93307 9x	Wellness C	Senter 3	Overall U-1 0.500 ion: NRCC-PF	RF-01-E-12092 CC-PRF-01-E iculation Date/	Pag Time: 14:5	e 6 of 12 68, Fri, Oct 21,	2022 6	Status ¹ N d at: 2022-	10-21 14:59:	9
Ass Metal Building Energy Efficie Dject Name: Dject Address: Dut File Name: 5. FENESTRATION AS	ncy Standards- 201 BCSD Dr. Martin L 1100 Citadel Street 22-5527 T24 2023	uther King Jr. et Bakersfield -10-21.cibd1e	Elem School - 93307 9x	Wellness C	enter	Overall U-1 0.500 ion: NRCC-PF	RF-01-E-12092 CC-PRF-01-E iculation Date/	Pag Time: 14:	e 6 of 12 68, Fri, Oct 21,	2022 6	N N d at: 2022-	10-21 14:59:	
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Ass Metal Building Energy Efficie oject Name: oject Address: put File Name: 5. FENESTRATION AS 1 Genestration Assembly or I.D.	ncy Standards- 201 BCSD Dr. Martin L 1100 Citadel Stree 22-5527 T24 2023 SEMBLY SUMMA Name / Tag Fer	estration Type Fram VerticalF Fixed Metal VerticalF Glaze	Elem School - 93307 Ex 2 e / Product T e Type enestration Window	Wellness C	Senter 3 Certification N	Overall U-1 0.500 ion: NRCC-PF NR Cal Method¹ rmance	CC-PRF-01-E culation Date/	Pag Time: 14:5 4 y Method	e 6 of 12 68, Fri, Oct 21, 5 Area f	2022 6 Overall U-factor	N N d at: 2022- 7 Overall SHGC	8 Overall VT	σ Status²
Ass Metal Building Energy Efficie roject Name: roject Address: put File Name: 5. FENESTRATION AS 1 Fenestration Assembly or I.D. Double Metal C GlassDoor-SingleMe lewly installed fenestration sheverification. Site-built fenestratous: N - New, A - Altered, E -	ncy Standards- 201 BCSD Dr. Martin L 1100 Citadel Street 22-5527 T24 2022 SSEMBLY SUMMA Name / Tag Fere Clear CatalClear- Catal	estration Type Fram VerticalF Fixed Metal VerticalF Glaz Metal	Elem School - 93307 Ex 2 e / Product T e Type enestration Window Framing enestration edDoor Framing ruse the CEC defial Appendix NA6	ype /	3 Certification N Default Perform the analysis.	Overall U-1 0.500 NRCC-PF NR Cal Method¹ Trance Trance	CC-PRF-01-E culation Date/	Pag Time: 14:	e 6 of 12 68, Fri, Oct 21, 5 Area f 211	2022 6 Overall U-factor 0.76 1.25	N A at: 2022- Overall SHGC 0.73 0.80	8 Overall VT 0.77	ຫ Status² z z
Ass Metal Building Energy Efficie roject Name: roject Address: put File Name: 5. FENESTRATION AS 1 Fenestration Assembly or I.D. Double Metal C GlassDoor-SingleMe ewly installed fenestration sherification. Site-built fenestra atus: N - New, A - Altered, E-	ncy Standards- 201 BCSD Dr. Martin L 1100 Citadel Street 22-5527 T24 2022 SSEMBLY SUMMA Name / Tag Fere Clear CatalClear- Catal	estration Type Fram VerticalF Fixed Metal VerticalF Glaz Metal	Elem School - 93307 Ex 2 e / Product T e Type enestration Window Framing enestration edDoor Framing r use the CEC defi al Appendix NA6	ype / (3 Certification N Default Perform the analysis.	Overall U-1 0.500 NRCC-PF NR Cal Method¹ Trance Trance	CC-PRF-01-E culation Date/	Pag Time: 14:	e 6 of 12 68, Fri, Oct 21, 5 Area f 211	2022 6 Overall U-factor 0.76 1.25	N N d at: 2022- 7 Overall SHGC 0.73 0.80	8 Overall VT 0.77	ຫ Status² z z
Ass Metal A Building Energy Efficie roject Name: roject Address: put File Name: 1 Fenestration Assembly or I.D. Double Metal C GlassDoor-SingleMe lewly installed fenestration sheverification. Site-built fenestra tatus: N - New, A - Altered, E -	ncy Standards- 201 BCSD Dr. Martin L 1100 Citadel Stree 22-5527 T24 2022 SSEMBLY SUMMA Name / Tag Fer Clear etalClear- etalClear- all have a certified NFRC tition values are calculated - Existing IPMENT (furnace	estration Type Fram VerticalF Fixed Metal VerticalF Glaza Metal Abel Certificate of per Nonresident s, air handlin	Elem School - 93307 Ex 2 e / Product T e Type enestration Window Framing enestration edDoor Framing r use the CEC defi al Appendix NA6	ype / (3 Certification N Default Performed in Table 110.6-in the analysis.	Overall U-1 0.500 NRCC-PF NR Cal Method¹ Trance Trance A and Table 110.	CC-PRF-01-E culation Date/ Manuf	Pag Time: 14: 4 y Method factured factured ss (COG) values a Total	e 6 of 12 i8, Fri, Oct 21, 5 Area f 211 21 re for the glass-onl	2022 6 Coverall U-factor 0.76 1.25 y, determined by the i	N Ad at: 2022- Toverall SHGC 0.73 0.80 manufacturer,	8 Overall VT 0.77 0.53	9 Status ² N
Ass Metal Building Energy Efficie roject Name: roject Address: nput File Name: 5. FENESTRATION AS 1 Fenestration Assembly or I.D. Double Metal C GlassDoor-SingleMetal lewly installed fenestration sheverification. Site-built fenestratatus: N - New, A - Altered, E-	ncy Standards- 201 BCSD Dr. Martin L 1100 Citadel Stree 22-5527 T24 2022 SSEMBLY SUMMA Name / Tag Fer Clear etalClear- all have a certified NFRC tion values are calculated- Existing IPMENT (furnace 2	estration Type Fram VerticalF Fixed Metal VerticalF Glaz Metal VerticalF Glaz Metal Sabel Certificate of per Nonresident s, air handlin 3	Elem School - 93307 Ex 2 e / Product T e Type Enestration Window Framing Enestration EdDoor Framing	ype / (Tenter 3 Certification N Default Perform of the analysis. VRF, econom 5 Heating Supp Heat Output	Overall U-1 0.500 NRCC-PF NR Cal Method¹ Trance Trance A and Table 110. Efficiency	Assemble Manuf Manuf 6-B. Center of Glas	Pag Time: 14:5 4 y Method factured factured ss (COG) values a Total Cooling Output	e 6 of 12 i8, Fri, Oct 21, 5 Area f 211 21 re for the glass-onl	2022 6 Coverall U-factor 0.76 1.25 y, determined by the land th	N Ad at: 2022- Toverall SHGC 0.73 0.80 manufacturer, Economi pre	8 Overall VT 0.77 0.53 and are shown 1	9 Status ² N N 12
Metal A Building Energy Efficie roject Name: roject Address: nput File Name: 55. FENESTRATION AS 1 Fenestration Assembly or I.D. Double Metal C GlassDoor-SingleMetal C GlassDoor-SingleMetal C GlassDoor-SingleMetal C In Dry System Equipment Name	ncy Standards- 201 BCSD Dr. Martin L 1100 Citadel Stree 22-5527 T24 2023 SEMBLY SUMMA Name / Tag Fer Clear citalClear- citalClear- cital have a certified NFRC tition values are calculater - Existing IPMENT (furnace 2 Equipment Ty	estration Type Fram VerticalF Fixed' Netal VerticalF Glaze Metal abel Certificate of per Nonresident s, air handlin 3 ppe Qt	Elem School - 93307 Ex 2 e / Product T e Type enestration Window Framing enestration edDoor Framing r use the CEC defi al Appendix NA6 4 Total He Outy (kBtu	ype / (Tenter 3 Certification N Default Perform the analysis. VRF, econom 5 Heating Supp Heat Output (kBtuh)	Overall U-f 0.500 NRCC-PF NR Cal Method¹ Tmance Tmance A and Table 110. Efficiency Unit	Assemble Manution Date of Glasses Center of Ce	Pag Time: 14:5 4 y Method factured factured ss (COG) values a Total Cooling Output (kBtu/h)	9 Cooling	2022 6 Overall U-factor 0.76 1.25 y, determined by the I	Status¹ N d at: 2022- 7 Overall SHGC 0.73 0.80 manufacturer, Economi pre	8 Overall VT 0.77 0.53 and are shown J	9 Status ² N N N Status ¹
Ass Metal A Building Energy Efficie roject Name: roject Address: nput File Name: 1 Fenestration Assembly or I.D. Double Metal C GlassDoor-SingleMe lewly installed fenestration sheverification. Site-built fenestratotus: N - New, A - Altered, E- 11. DRY SYSTEM EQUI 1 Equipment Name AC-1	ncy Standards- 201 BCSD Dr. Martin L 1100 Citadel Stree 22-5527 T24 2022 SSEMBLY SUMMA Name / Tag Fer Clear etalClear- etalClear- all have a certified NFRC tition values are calculated - Existing IPMENT (furnace 2 Equipment Ty SZHP (Packaged3)	estration Type Fram VerticalF Sized Metal VerticalF Glazz Metal V	Elem School - 93307 Ex 2 e / Product T e Type enestration Window Framing enestration dDoor Framing r use the CEC defi al Appendix NA6 4 Total He Outy (kBtu	ype / (Tenter 3 Certification N Default Perform of the analysis. VRF, econom 5 Heating Gupp Heat Output (kBtuh) 0	Overall U-1 0.500 Ion: NRCC-PF NR Cal Method¹ Imance Imance A and Table 110. Efficiency Unit HSPF	CC-PRF-01-E culation Date/ Assemble Manuf Manuf Fig. 120926 Assemble Assemble Assemble Manuf Manuf 8-B. Center of Glass 7 Efficiency 8.30	Pag Time: 14: 4 y Method factured factured s (COG) values a Total Cooling Output (kBtu/h) 46	e 6 of 12 i8, Fri, Oct 21, 5 Area f 211 21 re for the glass-onl Cooling Efficiency Unit	2022 6 2 Overall U-factor 0.76 1.25 y, determined by the selection of	N A at: 2022- 7 Overall SHGC 0.73 0.80 manufacturer, Fixed Fixed	8 Overall VT 0.77 0.53 and are shown J	9 Status ² N N Status ¹ N

Report Version: NRCC-PRF-01-E-12092021-6844

Report Generated at: 2022-10-21 14:59:28

December 1	liscellaneous Energy Componei	·-	Standard Design (1	posed Design (TDV)	Compliance Marg	
Receptacle				118.4	41	118.4	1	
Process				54.9	99	54.9	9	
Other Ltg								
Process Motors								
	LUS MISCELLANEOUS COMPON	FNTS		494.2	25	472.9	3	21.3 (4
	used to document complianc		TUAN Title 24 Part 6			472.0	-1	
A Building Energy Effici	iency Standards- 2019 Nonresid	ential Compliance	Report Version: NRC	C-PRF-01-E-	:-12092021-68	144 Repoi	rt Generated at: 2022-10-2	21 14:59
Project Name:	BCSD Dr. Martin Luther King	Jr. Elem School - Wellness C	Center	NRCC-PRF-	-01-E	Page 3 of 12		
Project Address:	1100 Citadel Street Bakersfie			-	n Date/Time:	14:58, Fri, Oct 21, 2022		
Input File Name:	22-5527 T24 2022-10-21.cib	d19x			· · · · · · · · · · · · · · · · · · ·	1		
	l .					<u> </u>		
C3. ENERGY USE SUN	MARY		T .					<u> </u>
Energ	y Component	Standard Design Site (MWh)	Proposed Design (MWh)		Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Mai (ME
Spa	ace Heating		1.6		-1.6	16.8		16
Spa	ace Cooling	10.5	7.3		3.2			-
In	door Fans	15.8	15.6		0.2			-
Hea	at Rejection							-
Pur	nps & Misc.				**		ESS.	-
Dome	stic Hot Water	1.9	2.0		-0.1			-
Ind	oor Lighting	4.7	4.7		0.0			
Com	pliance Total	32.9	31.2		1.7	16.8	0.0	16
R	eceptacle	14.2	14.2		0.0			-
	Process	6.9	6.9		0.0			-
(Other Ltg	**						٠
	cess Motors							-
	TOTAL	54.0	52.3		1.7	16.8	0.0	16
Pro	Other Ltg cess Motors TOTAL							
occupying. The aged solar reflectar reflectance must be list This project uses the Sir	Intial performance compliance some and aged thermal emittance ed, and the aged reflectance is implified Geometry Performance PRESCRIPTIVE COMPLIANCE do	e must be listed in the Cool calculated by the software p Modeling Approach which	Roof Rating Council da program and used in th is not capable of mod	tabase of cone complian	ertified produ nce model. hting controls	cts. For projects where init	tial reflectance is used, the	initial
required.			,				,,	
	RI .							
E. HERS VERIFICATIO	IN .							

Project Name:	BCSD Dr. Martin Luther King Jr. Elem School - Wellness Center	NRCC-PRF-01-E	Page 10 of 12
Project Address:	1100 Citadel Street Bakersfield 93307	Calculation Date/Time:	14:58, Fri, Oct 21, 2022
Input File Name:	22-5527 T24 2022-10-21.cibd19x		
L. DECLARATION OF	REQUIRED CERTIFICATES OF INSTALLATION		
	elections shall be made by Documentation Author to indicate which Co		
compliance. These de	elections shall be made by Documentation Author to indicate which Ce ocuments bust be retained and provided to the building inspector duri ca.gov/title24/2019standards/2019_compliance_documents/Nonres.	ng construction and can be	
compliance. These do	ocuments bust be retained and provided to the building inspector duri ca.gov/title24/2019standards/2019_compliance_documents/Nonres	ng construction and can be	
compliance. These do https://www.energy.	ocuments bust be retained and provided to the building inspector duri ca.gov/title24/2019standards/2019_compliance_documents/Nonres	ng construction and can be idential_Documents/NRCI/	
compliance. These do https://www.energy. Building Component	ocuments bust be retained and provided to the building inspector duri ca.gov/title24/2019standards/2019_compliance_documents/Nonres	ng construction and can be idential_Documents/NRCI/	

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BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

WELLNESS CENTER

WELLNESS

CENTER

1100 CITADEL STREET

BAKERSFIELD, CA 93307

integrated

designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887

E: design@somam.com integrateddesigns.com

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NRCC-PRF-01-E Page 11 of 12 BCSD Dr. Martin Luther King Jr. Elem School - Wellness Center Project Address: 1100 Citadel Street Bakersfield 93307 Calculation Date/Time: 14:58, Fri, Oct 21, 2022 Input File Name: 22-5527 T24 2022-10-21.cibd19x M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification

Report Version: NRCC-PRF-01-E-12092021-6844

Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/ Building Component Form/Title NRCA-ENV-02-F - NRFC label verification for fenestration

Covered Process NRCI-PRC-01-E - Must be submitted for all Covered Processes

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

Covered Process NRCA-PRC-14-F – Lab Exhaust Ventilation System NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap NRCA-MCH-03-A Constant Volume Single Zone HVAC

NRCA-MCH-05-A Air Economizer Controls NRCA-MCH-11-A Automatic Demand Shed Controls NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

Report Version: NRCC-PRF-01-E-12092021-6844

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Project Name:	BCSD Dr. Martin Luther King Jr. Elem School - Wellness Center	~	NRCC-PRF-01-E	Page 12 of 12
Project Address:	1100 Citadel Street Bakersfield 93307		Calculation Date/Time:	14:58, Fri, Oct 21, 2022
Input File Name:	22-5527 T24 2022-10-21.cibd19x		-0	
	THOR'S DECLARATION STATEMENT of Compliance documentation is accurate and complete.			
Documentation Author N	lame: Lisa Lum	Classia		8
Company: Integrated Des	signs by SOMAM, Inc.	Signatu	re: Auruca	
Address: 6011 North Fres	sno Street, Suite 130	Signatu	re Date: 2022-10-21	
City/State/Zip: Fresno CA	93710	CEA/ HE	RS Certification Identificat	tion (if applicable):
Phone: 559-436-0881				
RESPONSIBLE PERSON	'S DECLARATION STATEMENT		G C	
1. The information provided 2. I am eligible under Division	penalty of perjury, under the laws of the State of California: d on this Certificate of Compliance is true and correct, on 3 of the Business and Professions Code to accept responsibility for the build performance specifications, materials, components, and manufactured devices			

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. Lwill 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 building owner at occupancy. Responsible Envelope Designer Name: Curtis Flynn Company: Integrated Designs by SOMAM, Inc. Address: 6011 North Fresno Street, Suite 130 Date Signed: 2022-10-21 City/State/Zip: Fresno CA 93710 Phone: 559-436-0881 Title: ARCH License #: C28966 Responsible Lighting Designer Name: Signature: NOT IN SCOPE Date Signed: City/State/Zip: License #: Responsible Mechanical Designer Name: Lisa Lum, PE Signature: Luul Company: Integrated Designs by SOMAM, Inc. Address: 6011 North Fresno Street, Suite 130 Date Signed: 2022-10-21

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

City/State/Zip: Fresno CA 93710 Phone: 559-436-0881

Report Version: NRCC-PRF-01-E-12092021-6844

Title: MECH ENGR

Report Generated at: 2022-10-21 14:59:28

License #: M32712

Sheet Title:

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TITLE 24 DOCS

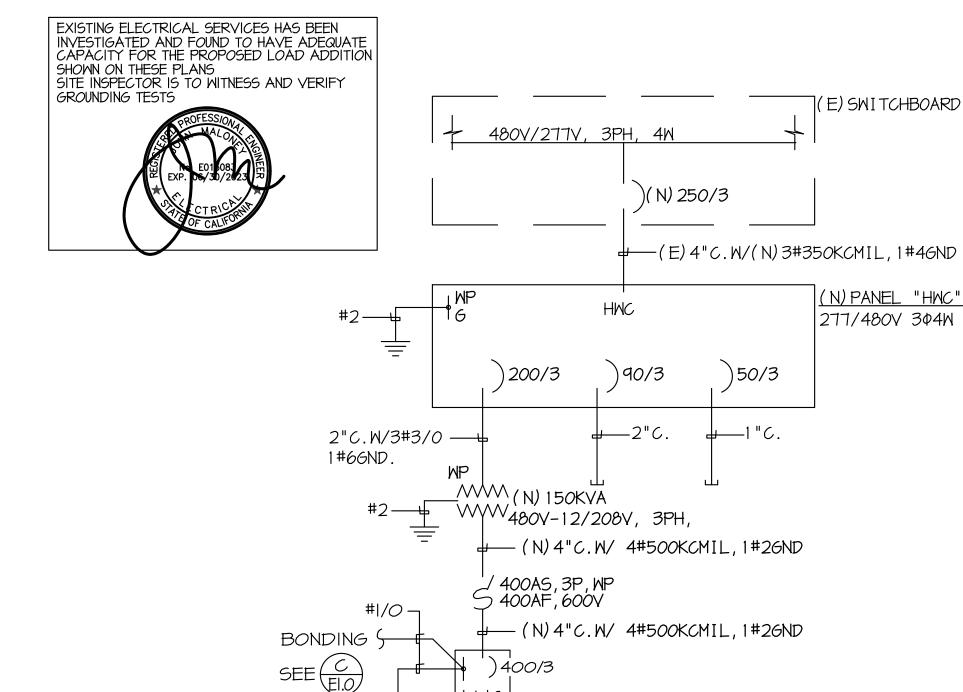
5527

M4.02

G:\2022frs\22-5527 MLK WELLNESS CENTER\Sheets SEAN PARKER

UFER GROUND DETAIL

SCALE: NONE



(N) PANEL "LWC"

—(N)1-1/2"C.W/

<u> 'N) PANEL "LWC1 "</u>

4#1,1#66ND

) 125/3

SINGLE LINE DIAGRAM

UFER

SEE B

APPLICABLE CODE: 2019 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE

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.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURE ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

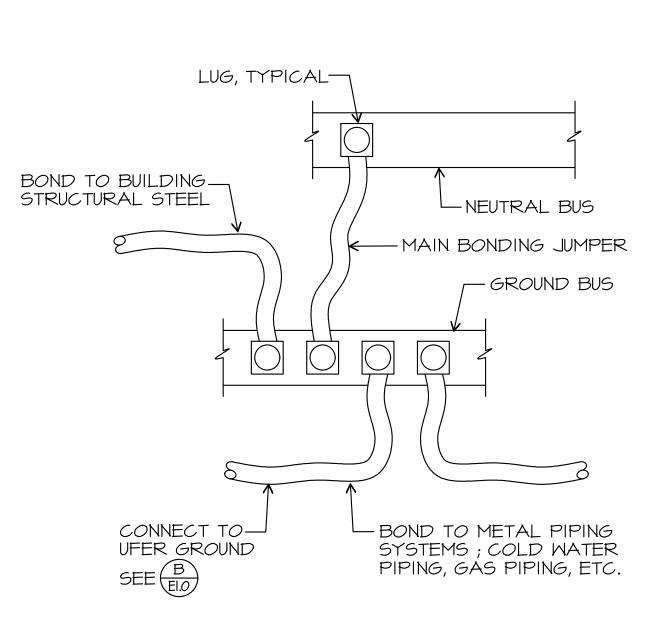
PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.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 PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), 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.

ELECTRICAL DISTRIBUTION SYSTEMS (E):

DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.



BONDING DIAGRAM SCALE: NONE

GENERAL NOTES

- I. VISIT JOB SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BID.
- 2. THE ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 20/9 CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL ORDINANCES. WHERE PLANS CALL FOR A HIGHER STANDARD THAN APPLICABLE CODES, THE PLANS SHALL GOVERN.
- 3. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
- 4. ALL ELECTRICAL EQUIPMENT, APPLIANCES AND LIGHTING FIXTURES SHALL BE LISTED BY A RECOGNIZED TEST LAB AND BEAR THAT LABEL
- 5. CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIAL AND EQUIPMENT FOR THIS WORK UNLESS OTHERWISE NOTED.
- 6. FURNISH DISCONNECT SWITCHES AT REMOTE MOTORS.
- 7. ALL SPACES AS INDICATED ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARE AND BUSSING FOR FUTURE BREAKER OR
- 8. CHECK ARCHITECTURAL PLANS FOR DOOR SWINGS BEFORE INSTALLING SWITCH OUTLETS.
- 9. GROUNDING AND BONDING SHALL BE PER CODE PLUS ANY ADDITIONAL PROVISIONS SPECIFIED OR SHOWN ON DRAWINGS.
- 10. ALL CONDUIT RUNS SHALL CONTAIN A CODE SIZED GREEN GROUND WIRE.
- II. THESE PLANS ARE NOT COMPLETE UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 12. ALL CONDUCTORS SHALL BE IN CONDUIT
- 13. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.

ACCESSIBILITY NOTES

Installation of switches, outlets and controls to reflect the accessibility requirements of the 2019 CBC Chapters 11A and 11B for Accessibility.

- 1. CBC 11B-308.1.1 Electrical controls and switches intended to be used by the occupant of a room or area shall be located within the allowable reach ranges. Low reach shall be measured from the bottom of the outlet box and high reach is measured to the top of the outlet
- 2. CBC 11B-308.1.2 Electrical receptacle outlets on branch circuits of 30 amperes or less and communication system receptacles shall be located in the allowable reach range. Low reach shall be measured from the bottom of the outlet box and high reach is measured to the top of the outlet box.
- 3. CBC 11B-308.2.1 High forward reach that is unobstructed shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above finish floor or ground.

4. CBC 11B-308.2 Forward Reach Obstructed - Electrical receptacle outlets shall be located no more than 44 inches measured from the top of the receptacle outlet box when the obstruction is over 20" and does not exceed 25". When the depth is less than 20" height can be increased to 48". (desk counters)

5. CBC 11B-308.3 Side Reach Obstructed - Electrical receptacle outlets shall be located no more than 46 inches measured from the top of the receptacle outlet box when the obstruction is over 10" and does not exceed 24". When the depth is less than 10" height can be increased

6. Overhang light fixtures or wall fixtures projecting more than 4" from the wall surface shall be a minimum of 80" above the walking surface.

SYMBOLS

CONDUIT EXISTING CONDUIT CONCEALED IN WALL OR CEILING

CONDUIT CONCEALED UNDER FLOOR OR BELOW GRADE CONDUIT STUBBED OUT AND CAPPED

CONDUIT TURNED UP CONDUIT TURNED DOWN

> CONDUIT (3) MAX. IN 1/2" C., (5) MAX. IN 3/4" C., (8) MAX. IN 1"C., NO MARKS = 2#12HOME RUN: LETTER INDICATES PANEL, NUMBER(S) INDICATES

HATCH MARKS INDICATE NO. OF #12 WIRES IN CODE SIZED

CIRCUIT(S). __ _ SAWCUT

GROUND CONNECTION

PANEL, BRANCH CIRCUIT TYPE, SURFACE AND FLUSH

LINEAR SURFACE FIXTURE

OUTLET DATA: BAR INDICATES WALL MOUNT, LETTER INDICATES SWITCH CONTROL, NO. INDICATES CIRCUIT.

SIGNAL TERMINAL CABINET, SURFACE & FLUSH

SURFACE FIXTURE ON FLUSH OUTLET.

DISTRIBUTION SWITCHBOARD OR PANEL

RECESSED FIXTURE WITH JUNCTION BOX FOR THRU WIRING EXIT LIGHT WITH ARROWS AS SHOWN ON PLANS, WALL AND

CEILING MOUNT. \bowtie LOW LEVEL EXIT SIGN. +6" AFF. +4" FROM DOOR JAMB

LIGHT FIXTURE DESIGNATION, LETTER INDICATES TYPE, NO. INDICATES WATTAGE. SEE FIXTURE SCHEDULE.

MECHANICAL EQUIPMENT DESIGNATION. SEE MECHANICAL DRAWINGS.

SPECIAL RECEPTACLE - SEE PLAN METER

FLUSH FLOOR RECEPTACLE

RECEPTACLE, DUPLEX, 15A, 125V, NEMA 5-15R +18" U.N.O.

DUPLEX RECEPTACLE MTD. ABOVE BACKSPLASH

DUPLEX RECEPTACLE W/LOWER HALF SWITCHED GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE

DOUBLE DUPLEX RECEPTACLE

CEILING RECEPTACLE

RECEPTACLE, DUPLEX, 20A, 125V, NEMA 5-20R +18" U.N.O.

JUNCTION BOX 4" SQUARE, I-1/2" DEEP U.N.O.

THERMOSTAT F.B.O. +48"

MOTOR, NO. INDICATES HORSEPOWER CLOCK OUTLET +7-6" U.N.O.

DISCONNECT SWITCH, NON-FUSED

DISCONNECT SWITCH FUSED HORSEPOWER RATED OR SIZED AS

COMBINATION MAGNETIC STARTER WITH DISCONNECT SWITCH AND

MAGNETIC MOTOR STARTER W/OVERLOADS IN EACH PHASE DIMMER W/INTEGRAL "ON-OFF" SW.

PUSHBUTTON

PHOTOCELL

SMOKE DETECTOR

TELEPHONE/COMPUTER/DATA OUTLET, TWO GANG BOX W/I GANG

COVERPLATE & GROMMETED OPENING +18" U.N.O.

CABLE TV OUTLET +18" U.N.O.

MOTION SENSOR

EXISTING SWITCH

SINGLE PALE SWITCH

Dauble Pale SWITCH QUIET TOGGLE TYPE RATED AT 20A, 120/27TV A.C. +42" UN.O.

THREE WAY SWITCH

SWITCH W/PILOT LT.

MANUAL MOTOR STARTER FIRE ALARM CONTROL PANEL

GROUND FAULT CIRCUIT INTERRUPTING

LST LABOR SAVING TANDEM

MI O MAIN LUGS ONLY

CONDUIT ONLY

WEATHERPROOF

FURNISHED BY OTHERS, INSTALL & CONNECT UNLESS NOTED OTHERWISE

NATIONAL ELECTRICAL CODE

NOT IN CONTRACT

EXISTING

REMOVE **RELOCATE**

SURFACE MOUNT UNDERGROUND

COLD WATER PIPE ABOVE FINISHED FLOOR

HEATING AND AIR CONDITIONING RATED CIRCUIT BREAK

NOTE: NOT ALL SYMBOLS SHOWN ARE USED ON THIS PROJECT

NIGHT LIGHT

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BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

WELLNESS CENTER

Project Address:

DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL

1100 CITADLE STREET BAKERSFIELD, CA 93307



designs by SOMAM, Inc.

ARCHITECTURE **ENGINEERING INTERIOR DESIGN**

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SINGLE LINE AGRAM, NOTES AND SYMBOLS

Sheet No.:

LIGHT NG DESIGN

CA REGIST ATION NO E13083

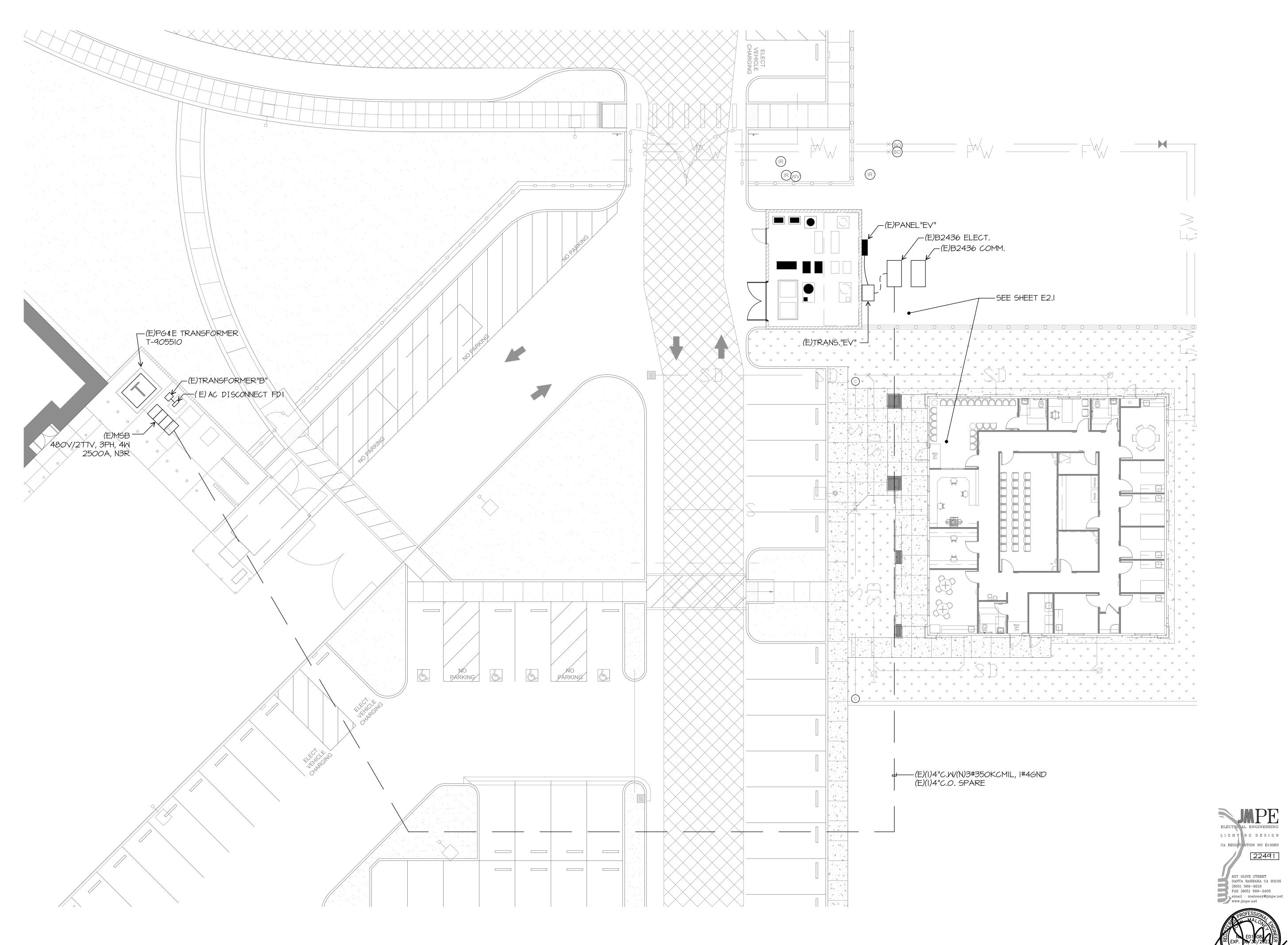
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(805) 569-9216

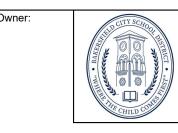
email : maloney@jmpe.net www.jmpe.net

FAX (805) 569-2405

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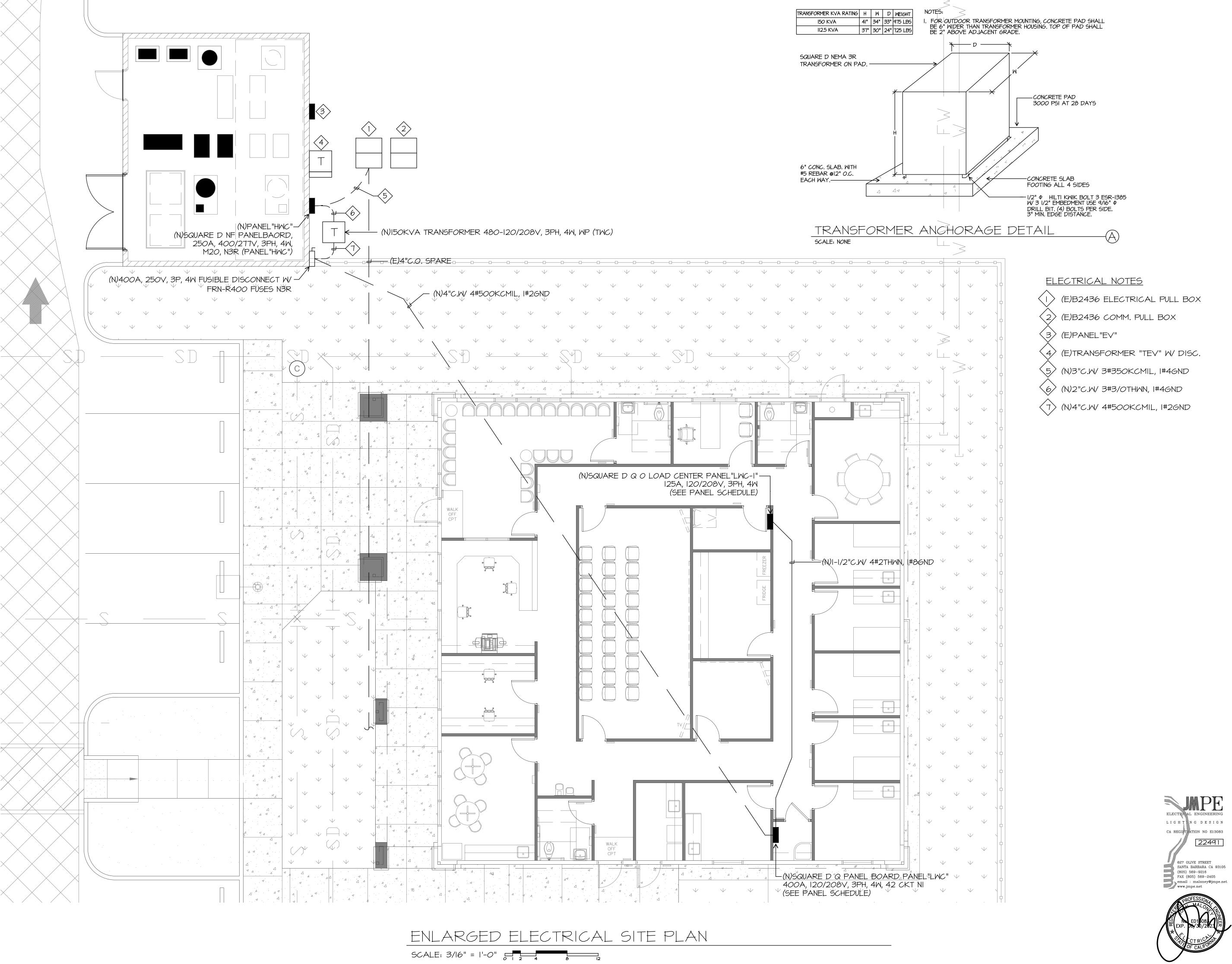
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EXISTING ELECTRICAL SITE PLAN

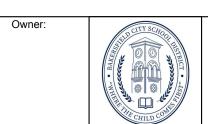
E-2.0

EXISTING ELECTRICAL SITE PLAN

SCALE: 3/32" = 1'-0" - 4 8 16



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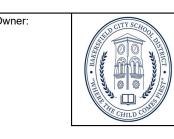
SITE ENLARGED ELECTRICAL PLAN

E-2.

FIRE ALARM SITE PLAN

SCALE: 1/32" = 1'-0" 0 4 8 16 32 64

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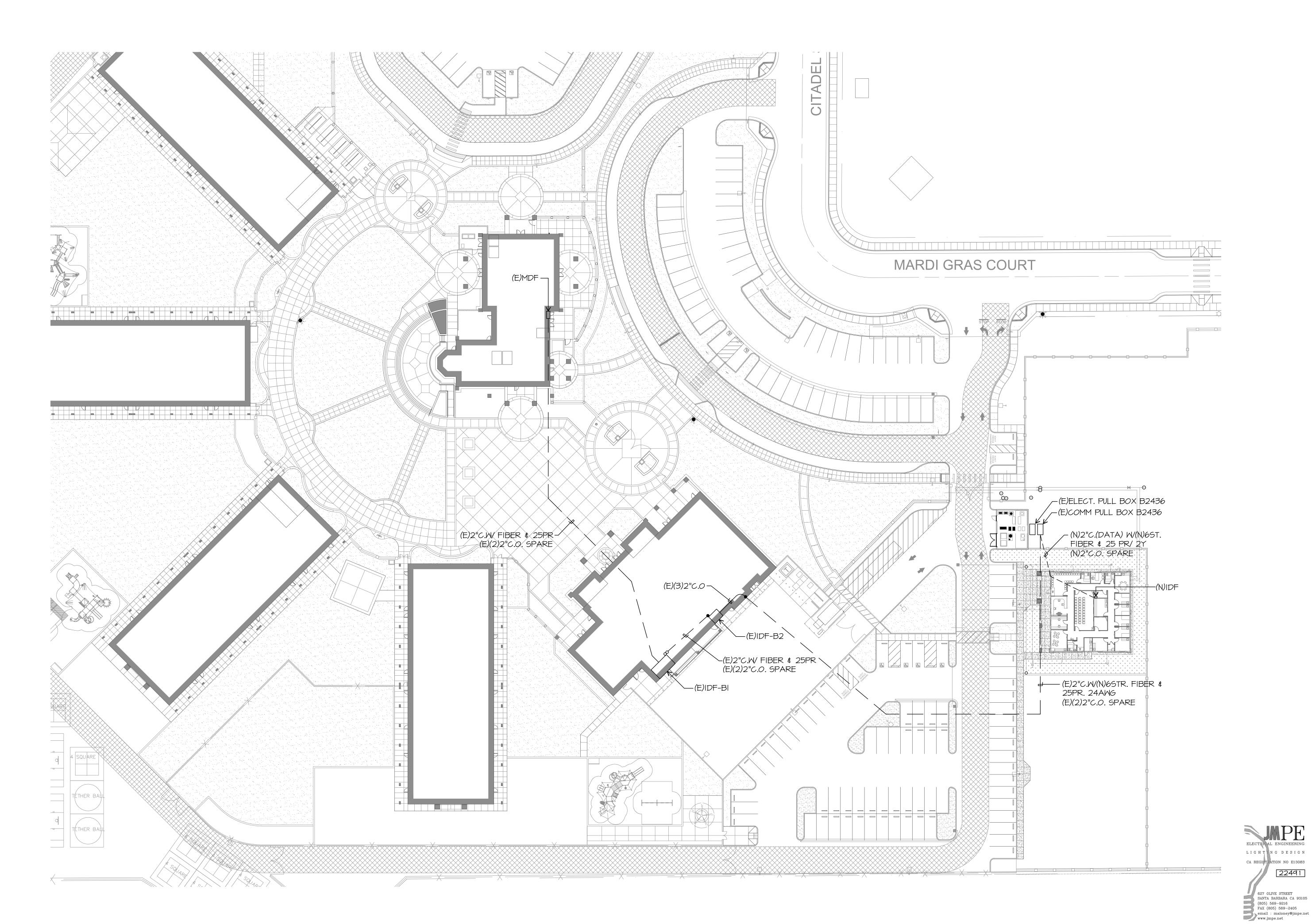
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www.jmpe.net

FIRE ALARM SITE PLAN

E-2.2



DATA SITE PLAN

SCALE: 1/32" = 1'-0" 048 16 32 64

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BAKERSFIELD CITY SCHOOL DISTRICT

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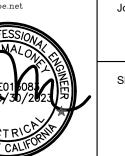
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DATA

SITE PLAN



E-2.3

			LED FIXTUR	E SCHEDU	LE		
			LED MODULE				
TYPE	MANUFACTURER AND CATALOG NUMBER	TYPE	COLOR TEMP	WATTS	DRIVER	OPTIC/LENS	REMARKS
$\left\langle \begin{array}{c} A \\ 34 \end{array} \right\rangle$	LITHONIA 2BLT448LADPGZ10LP835		3500K	34	0-10V	DIFFUSE	2X4
B 34	LITHONIA FMLWL848-35K		3500K	34	0-10V	DIFFUSE	4 FT S/M WRAP
C 14	LITHONIA EVOSH30/15DFFSOLMVOLTEZ10		3500K	14	0-10V	DIFFUSE	6" WP DOWNLIGHT
E 6	ISOLITE RLPGUWHMTEB		GREEN 4000K	6	NICAD BATTERY	PRISMATIC	EXIT SIGN W/EM LIGHT
ED 6	ISOLITE RLEMGUWHMTEB		GREEN 4000K	6	NICAD BATTERY	PRISMATIC	DOUBLE-SIDED EXIT SIGN W/EM

					(N	J) F	AN	IEL	SC	CHEDU	JLI	E "I	LW	/C"						
SERVICE: 120/208V 3Φ 4W	/		MAIN B	KR.:	400)/3							BUS	S: 40	00A					LOC.:JANITOR CLOSET
SQUARE D NQ PANELB	OARD (42-CKT																		MTG.: SURFACE
REMARKS		LOAD		R	L T	M I	P 0	T R	C - D		C	T R	Р О.	R E	L	M 		LOAD		REMARKS
	ΦА	ФВ	ФС	С	G	S C	L E	P	R C		R C	P	E	С	G	S C	ΦА	ФВ	ФС	
RECEPTS. RM 108	720			4			1	20	1		2	20	1	2			360			RECEPTS RMS 110,111
RECEPTS. RM 109, HALL		900		5			1	20	3		4	20	1	3				540		RECEPTS RM 110 OPTICA
RECEPTS RMS 113,114,HALL EXT			900	5			1	20	5		6	20	1	1						RECEPTS RM 113 WASHE
RECEPTS RMS 112,113	720			4			1	20	7		8	20	1	1						RECEPTS RM 113 DRYEF
RECEPTS RMS 121, TV'S		540		3			1	20	9		10	20	1	3				540		RECEPTS RM 115
RECEPTS RM 121 HALL			1260	7			1	20	11		12	20	1	3					540	RECEPTS RM 115, REFRI
RECEPTS RM 116 OFFICE 540	540			3			1	20	13		14	20	1	2			360			RECEPTS RM 124
RECEPTS RM 116, EXT		540		3			1	20	15		16	20	1	2				360		RECEPTS RM 124,T\
PANEL "LWC1"						1	3	125	17		18	Х	Χ			1				LCW1
"							Х	Х	19		20	Х	Χ							"
"							Х	Х	21		22	Х	Χ							"
									23		24	20	1	1			500			RM 123 COUNTER
									25		26	20	1	1				500		"
									27		28	20	1	1					500	"
									29	[;	30	20	1	2			360			RM 105 COUNTER
									31		32	20	1	2				360		RM 113 COUNTER
									33			20	1							SPARE
									35			20	1							II .
LIGHTS	800				19	3	1	20	37	;	38	20	1							II .
11		800			15	3	1	20	39			20	1							II .
"			800		16	2	1	20	41		42	20	1							II .
TOTAL WATTS=				ФА=								ΦВ=							ФС=	
AMPS=												MINI	MUI	И BK	(R		A.I.C. F	RATING=	10,000	AMPS SYM

RVICE: 480V 3Ф 3W			MAIN E	KR.:	ML	<u> </u>						BUS	: 25	60A					LOC.: SEE PLAN
QUARE D NF PANELBO	DARD N	3R																	MTG.: SURFACE
REMARKS		LOAD		R E C	L T G	M - c	P 0	T R	C	С	T R	P 0	R E C	L T G	M - c		LOAD		REMARKS
	ΦА	ΦВ	ФС		G	S C	L E	l P	R C	R C	P	L E	C	G	S C	ΦА	ΦВ	ΦС	
FUTURE TRANS							3	90	1	2	50	3							FUTURE
II .							Χ	Х	3	4	Χ	Х							"
II							Χ	Х	5	6	Χ	Х							II .
SPACE									7	8									SPACE
II									9	10									"
II .									11	12									ıı ı
II									13	14									"
II .									15	16									II II
II									17	18									II II
II .									19	20									ıı ı
II									21	22									ıı ı
H									23	24									"
н									25	26									"
н									27	28									"
н									29	30									"
II									31	32									"
II .									33	34									ıı ı
II									35	36									ıı ı
RANSFORMER "TWC"							3	200	37 *	38									"
н							Х	Х	39	40									"
н							Х	Х	41	42									"
ΓAL WATTS=				ФА=							ΦВ=						1	ФС=	•

			I		<u> </u>		Δ I	<u>и</u>		<i>/</i> _	וטט	_E '									
SERVICE: 120/208V 3Ф			MAIN E	3KR.:	12	5/3							BUS	S: 12	25A					LOC.:SERVER RM 122	
SQUARE D QO LOAD	CENT	ER																		MTG.: FLUSH	
		LOAD		R E	L	M	P O	T R	C _		C	T R	P	R E	L	M		LOAD			
REMARKS	ФА	ФВ	ФС	c	G	s C	L E	i l	R C		R	I P	L E	c	G	S	ФА	ФВ	ФС	REMARKS	
RECEPTS. LOBBY, HALL	720			4			1	20	1		2	20	1	5			900			RECEPTS RMS 102,104,105	
RECEPTS. LOBBY, EXT		540		3			1	20	3		4	20	1	5				900		RECEPTS RM 103, 105	
RECEPTS RM 106 EXT			900	5			1	20	5		6	20	1	3					540	RECEPTS RM 117 OFFICE	
RECEPTS RM 107	720			4			1	20	7		8	20	1	4			720			II .	
RECEPTS RMS 122,123		720		4			1	20	9		10	20	1	1				500		IDF	
RECEPTS RM 122 123 HALL			720	4			1	20	11		* 12	20	1			1			100	DPM-W	
RM 105 COUNTER	360			2					13		14										
									15		16										
									17		18										
									19		20										
									21		22										
									23		24										
									25		26										
									27		28										
									29		30										
TOTAL WATTS= AMPS=				ФА=	;							ФВ=	IMUI						ФС=	: OAMPS SYM	

* WITH RED HANDLE & LOCK-ON DEVICE

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BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

WELLNESS CENTER

Project Address:

DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL

> 1100 CITADLE STREET BAKERSFIELD, CA 93307



by SOMAM, Inc.

ARCHITECTURE ENGINEERING **INTERIOR DESIGN**

6011 N. FRESNO STREET, SUITE 130 FRESNO CALIFORNIA 93710 P:(559) 436-0881 F:(559) 436-0887 E: design@somam.com integrateddesigns.com

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PANELS & FIXTURE SCHEDULES



SCALE: 1/4" = 1'-0" 0 1 2 4 8

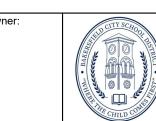
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APP: 03-122605 INC:

REVIEWED FOR

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DATE: 05/11/2023



BAKERSFIELD CITY SCHOOL DISTRICT

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LIGHTING DESIGN
CA REGISTRATION NO E13083

ELECTRICAL FLOOR PLAN

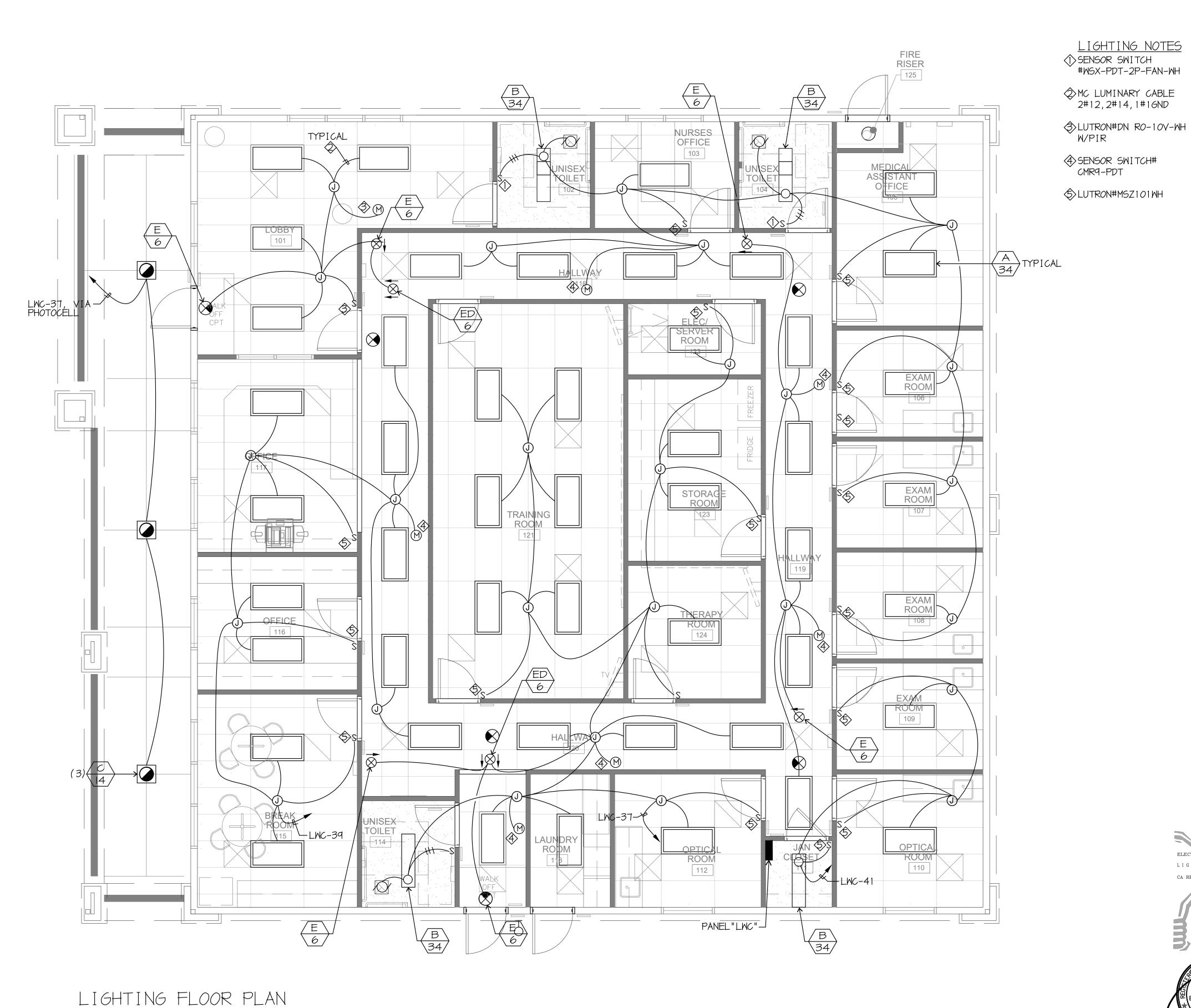
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www.jmpe.net
Job No.:

JOD NO..

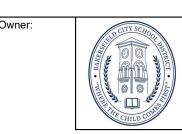
Sheet No.:

E-4.0

ELECTRICAL FLOOR PLAN



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BAKERSFIELD CITY SCHOOL DISTRICT

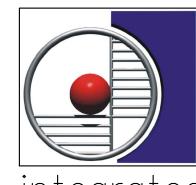
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22491

E-5.0

SCALE: 1/4" = 1'-0" 0 1 2 4 8

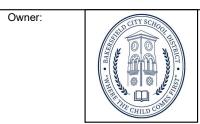
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APP: 03-122605 INC:

REVIEWED FOR

SS FLS ACS D

DATE: 05/11/2023



BAKERSFIELD CITY SCHOOL DISTRICT

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Project Name

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LIGHTING DESIGN
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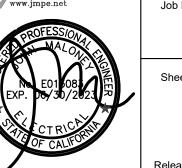
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Sheet Title:

FIRE ALARM PLAN

E-6.0

Job No.:



FIRE ALARM PLAN

SCALE: 1/4" = 1'-0" 0 1 2 4 8

		FIR	RE ALARM SYMBOL L	IST MATRIX	
	SYMBOL	DEVICE	MFR & CAT#	REMARKS	CSFM LISTING
(E)		MAIN FIRE ALARM PANEL	NOTIFIER NFS2-640	SURFACE MOUNT W/ SOFTWARE UPDATE	7165-0028:0243
(E)	DPM	ADDRESSABLE DISTRIBUTED POWER MODULE	NOTIFIER ACPS-610	SURFACE MOUNT U.N.O.	7315-0028:0248
(巨)	DVC	DIGITAL VOICE COMMAND	NOTIFIER DVC-EMF	SURFACE MOUNT	7165-0028:0224
(巨)	DAA-5025	DIGITAL AUDIO AMPLIFIER	NOTIFIER DAA-5025	PART OF DVC	7165-0028:0224
(E)	DAA-7525	DIGITAL AUDIO AMPLIFIER	NOTIFIER DAA-7525	PART OF DVC	7165-0028:0224
(E)	DAC	FIRE ALARM COMMUNICATOR	NOTIFIER 411UDAC	PART OF NFS2-640	7300-0075:0174
(N)	SD	SMOKE DETECTOR	NOTIFIER FSP-851	PROVIDE BASE B210 LP(A) ON 4"SQ. DEEP BOX	7272-0028:0206
(N)	HD	HEAT DETECTOR (IN ATTIC SPACE)	NOTIFIER FST-851H	PROVIDE BASE B210 LP(A) ON 4"SQ. DEEP BOX	7270-0028:0196
(E)	∇ AV	SPEAKER STROBE WALL MOUNT	SYSTEM SENSOR SPSR(A)	PROVIDE 4"SQ. DEEP BOX	7320-1653:0201
(N)	∇ S WP	EXTERIOR SPEAKER WALL MOUNT	SYSTEM SENSOR SPRK(A)	PROVIDE MWBB BACKBOX	7320-1653:0201
(E)	F	ADDRESSABLE MANUAL PULL STATION	NOTIFIER NBG-12LX	PROVIDE 4" SQ. DEEP BOX	7150-0028:0199
(N)	-AV	SPEAKER STROBE CEILING MOUNT	SYSTEM SENSOR SPSCR	PROVIDE SPBBSC(A) BACK BOX & 4"SQ. DEEP BOX	7320-1653:0201
(E)	ММ	INTELLIGENT MONITOR MODULE	NOTIFIER FMM-101	4"SQ. DEEP EXTENSION & DBL GANG	7300-0028:0219
(E)	HD	DETECTOR ON CEILING	NOTIFIER FST-851	PROVIDE BASE B210 LP(A) ON 4"SQ. DEEP BOX	7270-0028:0196
(N)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	STROBE	NOTIFIER SR	PROVIDE 4" SQ. DEEP BOX	7125-1653:0186
(巨)	RM	RELAY MODULE	NOTIFIER FRM-101	4"SQ. DEEP EXTENSION & DBL GANG	7300-0028:0219

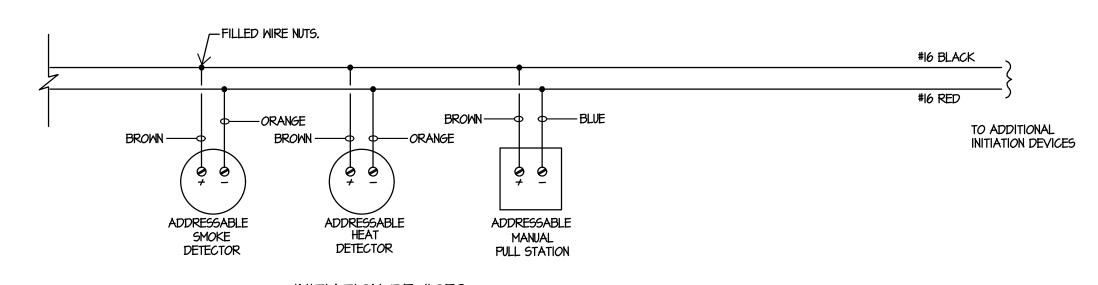
	N – DVC @ FACP		SLIDE	RVISORY		ALARM
EQUIPMENT DESCRIPTION	QUAN	ΓΙΤ∨		URRENT		URRENT
EQUIPIVIENT DESCRIPTION	QUAN	1111	_	IPERES)		MPERES)
	EXISTING	NEW	EACH	SUB-TOTAL	EACH	SUB-TOTAL
DVC	1	0	0.44	0.44		
DAA 5025	1	0	0.44			
NCA	1	0	0.33	0.33	0.4	
NOA	'	0	0.4	0.4		0.
1/4 Watt Speaker	37	0	0	0		
½ Watt Speaker	9	0		0		
1 Watt Speaker	16	0	0	0		
2 Watt Speaker	10	4	U	0		
2 Wall Speaker	0	0		0		
VISUALS 75 cd	0	0		0		
VISUALS 30 cd	0	0	0	ō		
VISUALS 15 cd	0	0	0	ō		
1004	0	0	0	0		
				ō		
	0	0	0	0	0	
SUB TOTAL AMPERES	-		1.19	AMPS	6.611	AMPS
			x 24 HOUF	RS	X 0.25 HO	URS
SUB TOTAL AMPERE-HOURS			28.56	A.H.	1.65275	A.H.
TOTAL REQUIRED AMPERE-HOURS FO	R DISTRIBUTED POWE	R MODUL	<u> </u> E		30.21275	A.H.
BATTERY NON-LINEAR DISCHARGE CH					35.2.270	x 1.2
TOTAL MINIMUM AMPERE HOURS REQ		-			36.2553	
PROVIDED BATTERY CAPACITY					55.00	

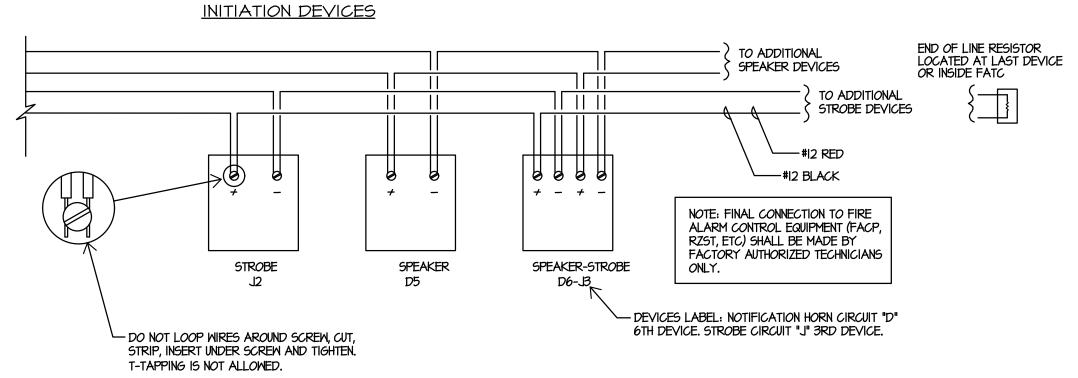
FACP BATTERY CALCULATION	FACP- Notifier N	FS2-640					
				SUPER	RVISORY		ALARM
EQUIPMENT DESC	RIPTION	QUANT	TTY	CI	URRENT	CI	JRRENT
				(AN	IPERES)	(AM	IPERES)
		EXISTING	NEW	EACH	SUB-TOTAL	EACH	SUB-TOTAL
FIRE ALARM PANEL		1	0	0.2	0.2	0.555	0.555
DIGITAL ALARM COMMUNICATO	OR .	1	0	0.04	0.04	0.04	0.04
DVC		0	0	0.44	0	0.44	0
DAA 5025		0	0	0.35	0	1.9	0
FRM		2	2	0.0003	0.0012	0.0003	0.0012
FDM/FMM		3	0	0.0003	0.0009	0.005	0.015
ASD		1	0	0.465	0.465	0.493	0.493
SMOKE DETECTOR		18	28	0.00039	0.01794	0.00039	0.01794
HEAT DETECTOR		4	20	0.00035	0.0084	0.00035	0.0084
					0		0
WP Speakers		3	0		0	0	0
AUDIBLE/VISUALS	15 cd	7	0		0	0.066	0.462
AUDIBLE/VISUALS	30 cd	4	0	0	0	0.077	0.308
AUDIBLE/VISUALS	75 cd	4	0	0	0	0.158	0.632
AUDIBLE/VISUALS	95 cd	8	0	0	0	0.202	1.616
VISUALS	15 cd	0	1		0	0.066	0.066
		0	0	0	0	0	0
SUB TOTAL AMPERES				0.73344	AMPS	4.21454	AMPS
				x 24 HOUF	रऽ	x 0.25 HO	JRS
SUB TOTAL AMPERE-HOURS				17.60256	A.H.	1.053635	A.H.
TOTAL REQUIRED AMPERE-HO	URS FOR DISTRIE	BUTED POWE	R MODULI	<u> </u>		18.6562	A.H.
BATTERY NON-LINEAR DISCHA	RGE CHARACTER	RISTIC FACTOR	₹				x 1.2
TOTAL MINIMUM AMPERE HOU	RS REQUIRED					22.38743	A.H.
PROVIDED BATTERY CAPACITY	/					36.00	A.H.

FIRE ALARM BATTERY CALC	ULATION-DISTRIBUT	ED POWER MOD	ULE FCPS	-24			
DPM-W				SUPE	RVISORY		ALARM
EQUIPMENT DES	CRIPTION	QUANTITY		С	URRENT	С	URRENT
					(IPERES)		1PERES)
		EXISTING	NEW	EACH	SUB-TOTAL	EACH	SUB-TOTAL
DISTRIBUTED POWER MODU	LE	0	1	0.065		0.145	
FCM-1		0	1	0.0003	0.0003	0.0003	0.0003
		0	0	0	0	0	0
AUDIBLE/VISUALS	15 cd	0	18	0	0	0.066	0.264
AUDIBLE/VISUALS	15/75 cd	0		0	0	0.077	0
AUDIBLE/VISUALS	30 cd	0	0	0	0	0.094	
AUDIBLE/VISUALS	75 cd	0	5	0	0	0.158	0.79
AudlBLE/VISUALS	95 cd	0	0	0	0	0.202	0
		0	0	0	0	0	0
		0	0	0	0	0	0
					0		0
OUR TOTAL AMPERE		0	0	0	U	0	0
SUB TOTAL AMPERES				0.0653 x 24 HOUF	AMPS	1.1993 x 0.25 HO	AMPS
SUB TOTAL AMPERE-HOURS				1.5672		0.299825	
COD TOTAL TIME ETTE TOOTIO				1.0012	73.11.	0.200020	7.11.
TOTAL REQUIRED AMPERE-H			DULE			1.867025	
BATTERY NON-LINEAR DISCH		STIC FACTOR					x 1.2
TOTAL MINIMUM AMPERE HO						2.24043	
PROVIDED BATTERY CAPAC	ITY					7.00	A.H.

VOLTAGE DROP CALCULATIONS										
CIRCUIT	2x	LENGTH x	AMPS x	RESISTANCE x	= VOLTS	VOLTAGE DROP				
NL1	2	600	0.948	0.00205	2.332	9.72 %				

CENTRAL STATION MONITORING KIMBERLITE CORP. DBA SONITROL 6321 W. BEECHWOOD AVE, FRESNO, CA 93711 LICENSE NUMBER: # ACO-2599 U.L. LISTING CERT: WFX #S8535-1





NOTIFICATION DEVICES

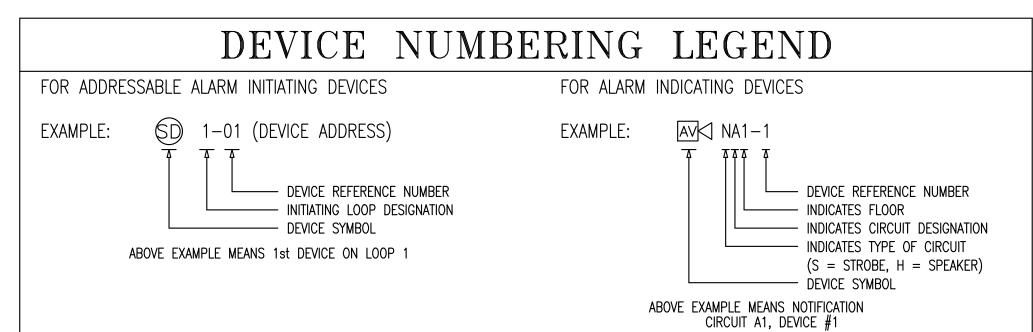
FIRE ALARM DEVICES TYPICAL WIRING DIAGRAM SCALE: NONE

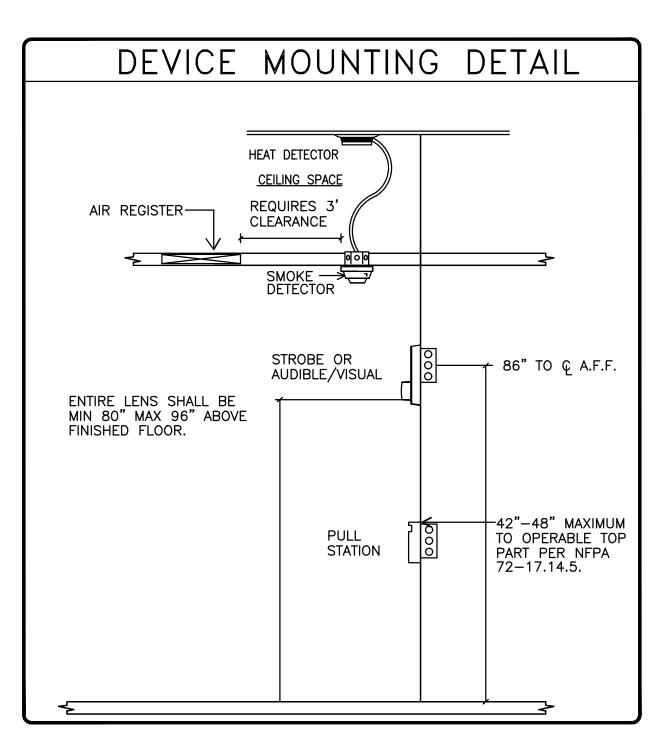
INPUT & OUTPUT **MATRIX** SYSTEM OUTPUTS ACTUATE COMMON ALARM SIGNAL INDICATOR (RED LED) ACTUATE AUDIBLE ALARM SIGNAL (PIEZO BUZZER) ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR (AMBER LED) ACTUATE AUDIBLE SUPERVISORY SIGNAL (PIEZO BUZZER) ACTUATE COMMON TROUBLE SIGNAL INDICATOR (AMBER LED) ACTUATE AUDIBLE COMMON TROUBLE SIGNAL (PIEZO BUZZER) ' • | • | • | • | • | TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION • | • | • | • | •

FIRE ALARM SEQUENCE OF OPERATION

SCOPE OF WORK THIS IS A COMPLETELY AUTOMATIC AND ADDRESSABLE EMERGENCY VOICE ALARM COMMUNICATION SYSTEM. INSTALL DEVICES AS SHOWN IN EQUIPMENT LEGEND AND FLOORPLANS OF THIS DRAWING PACKAGE.

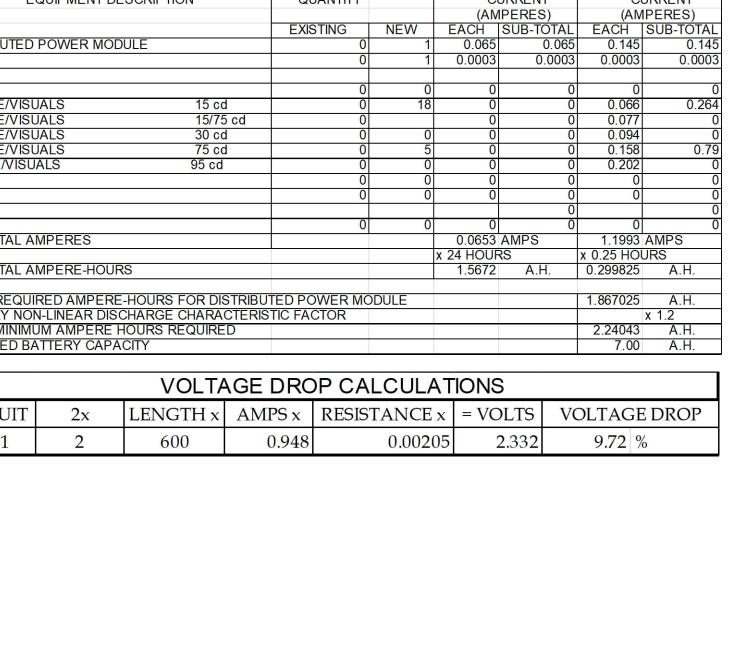
UPON COMPLETION A COMPLETE PRETEST SHALL BE PERFORMED TO VERIFY FUNCTIONALITY. IF THE FUNCTIONALITY IS COMPLETE THEN THE PROPER DOCUMENTATION SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO SCHEDULING A FINAL INSPECTION.

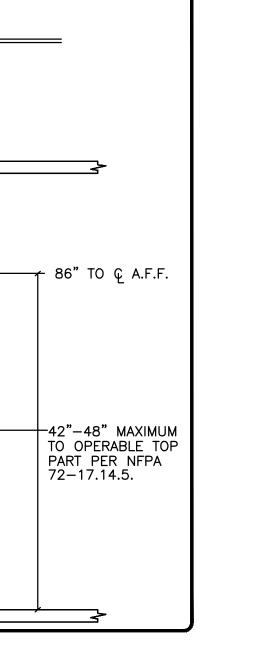




FIRE ALARM MOUNTING DETAIL

SCALE: NONE





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627 OLIVE STREET

22491

Sheet Title: LIGHT NG DESIGN FIRE ALARM CA REGIST ATION NO E13083

CALCULATIONS & DETAILS

IDENTIFICATION STAMP

BAKERSFIELD

CITY SCHOOL

DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

WELLNESS CENTER

DR. MARTIN LUTHER KING

JR. ELEMENTARY SCHOOL

1100 CITADLE STREET

BAKERSFIELD, CA 93307

integrated

designs

by SOMAM, Inc.

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ENGINEERING

INTERIOR DESIGN

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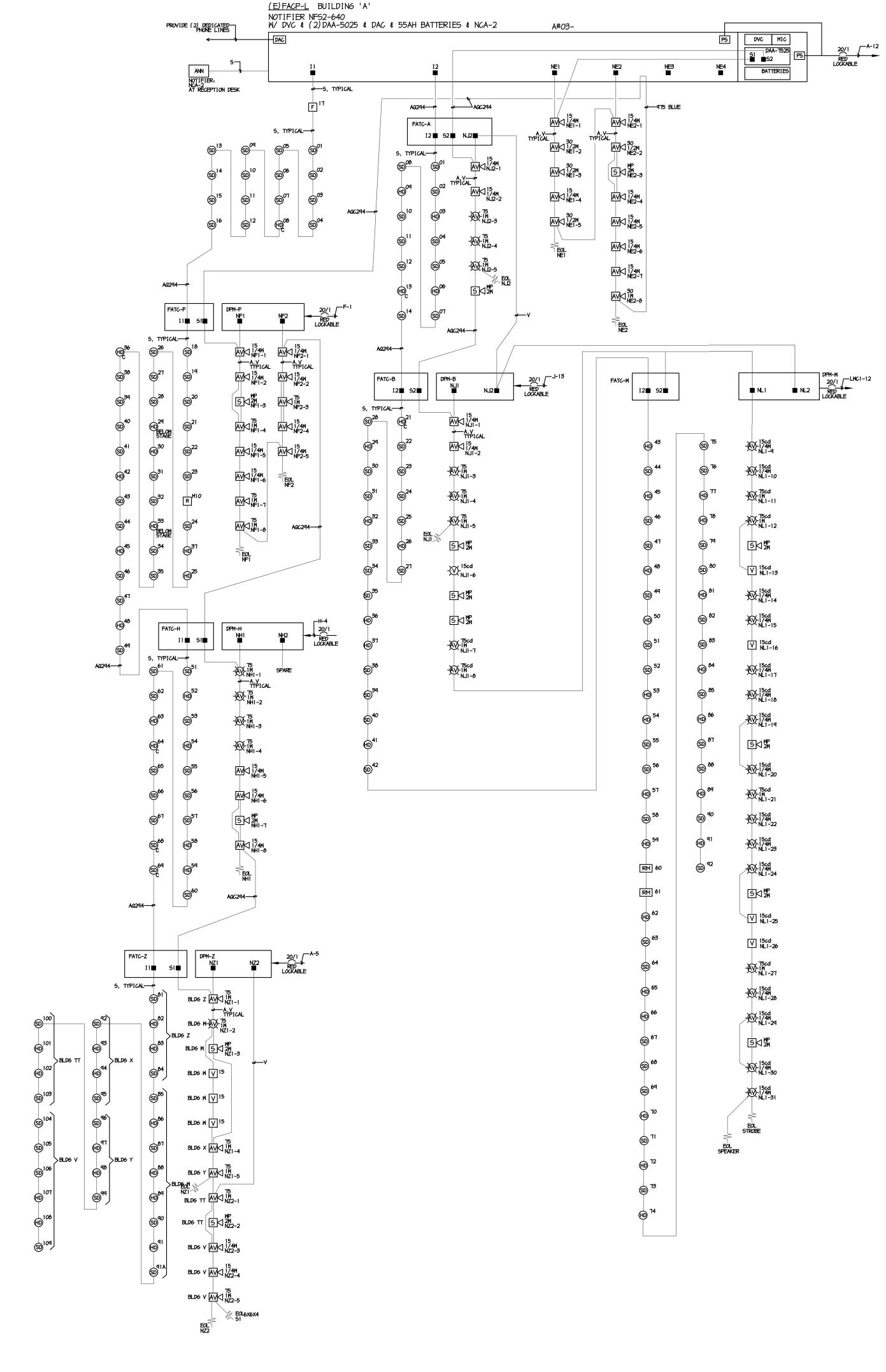
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FIRE ALARM NOTES

SITE AND USED FOR INSTALLATION.

- 1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35. 2. INSTALLATION OF THE SYSTSEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
- 3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR. 4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB
- 5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF
- 6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
- 7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
- 8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
- 9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A
- 10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBLES (DBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY
- OCCUPIABLE SPACE WITHIN THE BUILDING. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
- 12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE
- 13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
- 14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE
- TO BE APPROVED FOR WET LOCATIONS. 15. ALL FIRE ALARM WIRING SHALL BE FPLOR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE
- 16. PER CEC STANDARDS, ALL WIRING TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLIACE THE WIRE. ALL BOXES TO BE
- 17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1" FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE
- DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED
- UNTIL THAT AREA IS READY TO BE TURNED VER TO THE OWNER. 18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN
- ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
- 19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
- 20. A DEDICATED BRANCH CIRUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL" CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
- 21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.
- 22. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
- 23. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
- 24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR
- SUPERVISORY MONITORING PER CBC SECTION 901.6.2. 25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT
- SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST. 26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122605 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 05/11/2023



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FIRE ALARM RISER DIAGRAM

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FIRE ALARM RISER DIAGRAM

SCALE: NONE

SECTION 26 00 00 - ELECTRICAL

PART 1 _ GENERAL

- 1.1 IDENTIFICATION OF EQUIPMENT
- A. DISTRIBUTION PANELBOARDS: IDENTIFICATION SHALL BE WITH 1" X 4" LAMINATED, WHITE ON BLACK, MICARTA NAMEPLATES ON EACH MAJOR COMPONENT, EACH WITH NAME AND/OR NUMBER OF UNIT AND OTHER PERTINENT DATA AS REQUIRED. EMERGENCY POWER DISTRIBUTION PANELS SHALL BE IDENTIFIED WITH WHITE ON RED MICARTA NAMEPLATES. LETTERS SHALL BE NO LESS THAN 3/8" HIGH.
- B. CIRCUIT BREAKERS SHALL BE IDENTIFIED BY NUMBER AND NAME WITH 3/4" X 1-1/2" LAMINATED MICARTA NAMEPLATES WITH 3/16" HIGH LETTERS MOUNTED ADJACENT TO CIRCUIT BREAKER OR SWITCH.
- C. MISCELLANEOUS EQUIPMENT (ELECTRICAL), SUCH AS INDIVIDUALLY MOUNTED SAFETY SWITCHES, STARTERS, STEP-DOWN TRANSFORMERS, PULL BOXES, JUNCTION BOXES, ETC., SHALL BE IDENTIFIED AS REQUIRED BY THE USE OF SUCH EQUIPMENT WITH P-TOUCH LABELS AS REQUIRED.
- 1.2 ARC FLASH LABELING
- A. ALL PANELS, CIRCUIT BREAKER ENCLOSURES, SWITCHBOARDS AND MOTOR CONTROL CENTERS SHALL BE LABELED WITH ARC FLASH WARNING STICKERS.
- B THESE LABELS SHALL CONTAIN THE FOLLOWING:
- 1. ARC FLASH BOUNDARY
- 2. MINIMUM ARC RATING
- 3. PERSONAL PROTECTIVE EQUIPMENT LEVEL, PPE
- 4. SHOCK HAZARD LEVEL
- 5. FAULT CURRENT
- 1.3 MOUNTING
- A. PROVIDE MATERIALS AND ACCESSORIES NECESSARY TO PROPERLY MOUNT AND SECURE EQUIPMENT FURNISHED AND/OR INSTALLED UNDER THE ELECTRICAL WORK. THIS INCLUDES BUT IS NOT LIMITED TO SUCH ITEMS AS CONDUIT, OUTLETS, JUNCTION BOXES, SWITCHES, RELAYS, DISCONNECT SWITCHES, LIGHTING FIXTURES, CABINETS, AND TRANSFORMERS.

PART 2 PRODUCTS AND EXECUTION

- 2.1 CONDUIT
- A. RIGID STEEL CONDUIT:
- 1. RIGID STEEL CONDUIT SHALL HAVE ZINC COATED EXTERIOR, ZINC OR ENAMEL INTERIOR, STANDARD WEIGHT, ZINC COATED COUPLINGS, LOCKNUTS AND BUSHINGS AND SHALL BEAR THE U.L. LABEL. RIGID CONDUIT SHALL NOT BE INSTALLED UNDERGROUND.
- 2. USE RIGID CONDUIT ONLY FOR EXPOSED EXTERIOR CONDUIT RUNS, WHEREVER SUBJECT TO PHYSICAL DAMAGE, OR WHERE SPECIFICALLY CALLED FOR ON THE DRAWINGS OR REQUIRED BY A SERVING UTILITY.
- 3. INTERMEDIATE METALLIC CONDUIT (I.M.C.) MAY BE USED IN LIEU OF RIGID STEEL CONDUIT.
- 4. USE LIQUID_TIGHT FLEXIBLE CONDUIT IN LIEU OF FLEXIBLE CONDUIT FOR WET, DAMP, OR OUTDOOR AREAS OR WHERE WEATHERPROOF FLEXIBLE CONDUIT IS CALLED FOR ON THE DRAWINGS OR BY CODE.
- B. PLASTIC CONDUIT:
- 1. PLASTIC CONDUIT SHALL BE RIGID POLYVINYL CHLORIDE (PVC) UNDERWRITER'S APPROVAL, SCHEDULE 40. CONNECTIONS AND FITTINGS SHALL BE "OUTSIDE" TYPE ASSEMBLED IN ACCORDANCE WITH THE RECOMMENDED METHODS OF THE MANUFACTURER.
- UNDERGROUND PVC CONDUIT SHALL BE BURIED A MINIMUM OF 24 INCHES BELOW GRADE.
 WHERE MORE THAN TWO CONDUITS ARE INSTALLED ADJACENTLY UNDERGROUND, USE FACTORY MADE CONDUIT SPACERS.
- 3. PVC CONDUIT SHALL BE USED FOR UNDERGROUND CONDUIT RUNS IN LIEU OF WRAPPED RIGID CONDUIT EXCEPT AS NOTED OTHERWISE ON THE DRAWINGS OR REQUIRED BY THE SERVING UTILITY.
- 4. PROVIDE A CODE SIZE GROUND CONDUCTOR IN EACH CONDUIT.
- 5. ONLY BRAIDED POLYETHYLENE OR SIMILAR PULL ROPE SHALL BE USED.

C. INSTALLATION OF CONDUIT:

- UNDERGROUND CONDUIT.
- a. KEEP INTERIOR OF CONDUIT CLEAN AND CLEAR. CLEAN UNDERGROUND CONDUITS BY PULLING A MANDREL THROUGH CONDUIT RUN FOLLOWED WITH A SWAB BEFORE PULLING WIRE.
- b. REROUTE CONDUIT FROM LOCATIONS SHOWN ON THE DRAWINGS WHERE IT IS NECESSARY TO CLEAR OBSTRUCTIONS.
- c. PROVIDE JUNCTION OR PULL BOXES WHERE REQUIRED FOR PULLING CONDUCTORS DUE TO EXCESSIVE NUMBER OF BENDS OR LENGTH OF CONDUIT RUNS.
- d. BURY UNDERGROUND CONDUIT, EXCEPT THOSE UNDER BUILDINGS, A MINIMUM OF 24 INCHES BELOW FINISHED GRADE. CONDUITS UNDER ROADWAYS SHALL BE A MINIMUM OF 36 INCHES BELOW FINISHED GRADE. CONDUIT RUNS 3/4 INCH AND SMALLER IN SLABS SHALL BE LOCATED ABOVE VAPOR BARRIERS. BURY CONDUIT RUNS LARGER THAN 3/4 INCH TO A MINIMUM DEPTH OF 12 INCHES BELOW FLOOR SLABS.
- e. STANDARD FACTORY ELLS SHALL NOT BE USED IN UNDERGROUND SERVICE CONDUITS OR OTHER LONG UNDERGROUND RUNS. FIELD BENDS SHALL NOT BE FLATTENED OR KINKED AND SHALL NOT MATERIALLY REDUCE THE INTERNAL DIAMETER OF THE CONDUIT. BENDS IN LONG UNDERGROUND RUNS SHALL BE MADE IN LONG SWEEPING BENDS. DO NOT BEND AT COUPLINGS. APPROVED CONDUIT BENDING METHODS SHALL BE USED.
- f. ALL CONDUIT RUNS SHALL HAVE A CODE SIZE INSULATED GROUNDING CONDUCTOR.
- g. PROPERLY SEPARATE TWO OR MORE CONDUITS INSTALLED UNDERGROUND IN A COMMON CONCRETE ENVELOPE WITH APPROVED FACTORY MADE CONDUIT SPACERS.
- h. LOCATE CONDUIT STUB_OUTS DIMENSIONALLY FROM BUILDING OR CURB LINES ON RECORD DRAWINGS.
- i. PULL WIRES SHALL BE INSTALLED IN EMPTY CONDUITS INCLUDING TELEPHONE CONDUITS AND STUB_OUTS, NO. 12 AWG, TYPE "THWN" INSULATED COPPER WIRE OR 1/8-INCH POLYETHYLENE ROPE SHALL BE USED.
- 2. EXPOSED/CONCEALED CONDUIT:
- a. PROVIDE SECURE MOUNTING FACILITIES FOR CONDUITS. WIRE OR PLUMBERS TAPE SHALL NOT BE USED FOR HANGING CONDUIT. STRAP SHALL BE FACTORY MADE OF THE ONE HOLE MALLEABLE IRON OR TWO HOLE GALVANIZED CLAMP TYPE.
- b. PROVIDE EXPANSION COUPLINGS WHEREVER CONDUITS CROSS EXPANSION JOINTS.
- c. RUN CONDUIT AT RIGHT ANGLES OR PARALLEL TO STRUCTURAL MEMBERS, WALLS, FLOORS AND CEILINGS. WHERE SEVERAL CONDUITS ARE RUN TOGETHER OR SUSPENDED, THEY SHALL BE HUNG ON UNISTRUT TRAPEZES WITH MINIMUM 3/8-INCH ROD HANGERS.
- d. CUT ENDS OF CONDUIT SQUARE AND REAM TO REMOVE BURRS OR SHARP EDGES.

 TERMINATE CONDUITS PROPERLY WITH BUSHINGS, LOCKNUTS, ETC.

 TERMINATE ONE (1) INCH AND LARGER CONDUITS WITH INSULATED BUSHINGS.
- e. RENDER CONDUITS PROJECTING THROUGH THE ROOFING WATERTIGHT BY PROPER FLASHINGS. SECURELY FASTEN A SHEET METAL CAP AND TIGHTEN BANK OR STORM COLLAR TO THE CONDUITS. EXTEND FLASHING A MINIMUM OF SIX (6) INCHES IN ALL DIRECTIONS. COORDINATE AND INSTALL ROOF FLASHING FOR CONDUITS TO THE SATISFACTION OF THE PROJECT MANAGER.
- f. ALL CONDUIT RUNS SHALL HAVE A CODE SIZE INSULATED GROUNDING CONDUCTOR.
- g. PULL WIRES SHALL BE INSTALLED IN EMPTY CONDUITS INCLUDING TELEPHONE CONDUITS AND STUB_OUTS, NO. 12 AWG, TYPE "THWN" INSULATED COPPER WIRE OR 1/8-INCH POLYETHYLENE ROPE SHALL BE USED.
- h. FLEXIBLE CONDUIT CONNECTIONS SHALL COMPLY WITH NEC SECTION 350-22.
- 2.2 WIRE AND CABLE
- A. 600 VOLT CONDUCTORS:
- 1. CONDUCTORS SHALL BE COPPER AND DELIVERED TO THE SITE IN THEIR ORIGINAL, UNBROKEN PACKAGES PLAINLY MARKED OR TAGGED WITH U.L. LABEL, SIZE, KIND, INSULATION, NAME OF MANUFACTURER AND TRADE NAME OF THE WIRE.
- 2. TYPE "THWN", 600 VOLT INSULATION FOR DAMP OR WET LOCATIONS OR ON BOILERS AND FURNACES AND THEIR CONTROLS.
- 3. TYPE "THHN" 600 VOLT INSULATION SHALL BE USED IN OTHER LOCATIONS UNLESS NOTED.
- 4. MINIMUM SIZE CONDUCTOR SHALL BE #12.
- 5. CONDUCTORS SHALL BE STRANDED.
- 6. GROUND CONDUCTORS SHALL BE BARE COPPER OR HAVE GREEN INSULATION.

- B. INSTALLATION:
- 1. CONDUCTORS SHALL BE CONTINUOUS BETWEEN OUTLETS OR JUNCTION BOXES AND NO SPLICES SHALL BE MADE EXCEPT IN OUTLET BOXES, PULL BOXES, PANELBOARD GUTTERS OR HANDHOLES.
- 2. JOINTS, SPLICES AND TAPS NO. LO OR SMALLER (INCLUDING FIXTURE PIGTAILS) SHALL BE CONNECTED WITH "FLOATING SPRING" TYPE CONNECTORS. NO. 8 AND LARGER SHALL BE CONNECTED WITH SOLDERLESS CONNECTORS OF 100% ELECTROLYTIC COPPER. SPLIT_BOLT CONNECTORS ARE NOT ACCEPTABLE.
- 3. TIGHTEN PRESSURE TYPE LUGS ON PANELS AND EQUIPMENT, AND THEN RETIGHTEN 24 HOURS OR MORE LATER AFTER ENERGIZING. PROVIDE WRITTEN REPORT OF TORQUE VALUES ON LUGS.
- 4. OIL OR GREASE SHALL NOT BE USED WHEN PULLING CONDUCTORS. USE U.L. APPROVED CABLE LUBRICATION ONLY.
- 5. LACE OR TRAIN CONDUCTORS NEATLY IN PANELS, CABINETS AND EQUIPMENT. USE PLASTIC WIRE TIES TO ROUTE CONDUCTORS AT EDGE OF ENCLOSURE AWAY FROM OVERCURRENT DEVICES.
- 6. BRANCH CIRCUITS SHALL BE COLOR CODED IN COMPLIANCE WITH SECTION 210_5 OF THE CALIFORNIA ELECTRICAL CODE. COLORED TAPE IS NOT ACCEPTABLE.
- 7. ALL WIRING, BOTH LINE AND LOW VOLTAGE, SHALL BE INSTALLED IN CONDUIT UNLESS OTHERWISE NOTED.

END OF SECTION 26 00 00

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 03-122605 INC:

REVIEWED FOR SS FLS ACS DATE: 05/11/2023

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Project Name

WELLNESS CENTER

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ELECTRICAL SPECIFICATIONS

Job No.:

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Release:

SECTION 28 31 11 - FIRE DETECTION AND ALARM SYSTEM

PART 1 - GENERAL

1.1 BASIC SYSTEM FUNCTIONAL OPERATION

- A. WHEN A FIRE ALARM CONDITION IS DETECTED AND REPORTED BY ONE OF THE SYSTEM INITIATING DEVICES, THE FOLLOWING FUNCTIONS SHALL IMMEDIATELY OCCUR:
- 1. THE SYSTEM ALARM LED ON THE SYSTEM DISPLAY SHALL FLASH.
- 2. A LOCAL PIEZO ELECTRIC SIGNAL IN THE CONTROL PANEL SHALL SOUND.
- 3. A BACKLIT LCD DISPLAY SHALL INDICATE ALL INFORMATION ASSOCIATED WITH THE FIRE ALARM CONDITION, INCLUDING THE TYPE OF ALARM POINT AND ITS LOCATION WITHIN THE PROTECTED
- 4. PRINTING AND HISTORY STORAGE EQUIPMENT SHALL LOG THE INFORMATION ASSOCIATED EACH NEW FIRE ALARM CONTROL PANEL CONDITION, ALONG WITH TIME AND DATE OF OCCURRENCE.
- 5. ALL SYSTEM OUTPUT PROGRAMS ASSIGNED VIA CONTROL-BY-EVENT INTERLOCK PROGRAMMING TO BE ACTIVATED BY THE PARTICULAR POINT IN ALARM SHALL BE EXECUTED, AND THE ASSOCIATED SYSTEM OUTPUTS (NOTIFICATION APPLIANCES AND/OR RELAYS) SHALL BE ACTIVATED.

PART 2 - PRODUCTS

2.1 EQUIPMENT AND MATERIAL, GENERAL

- A. ALL EQUIPMENT AND COMPONENTS SHALL BE NEW, HOCHIKI CURRENT MODELS, THE MATERIALS, APPLIANCES, EQUIPMENT AND DEVICES SHALL BE TESTED AND LISTED BY A NATIONALLY RECOGNIZED APPROVALS AGENCY FOR USE AS PART OF A PROTECTIVE SIGNALING SYSTEM, MEETING THE NATIONAL FIRE ALARM CODE.
- B. ALL EQUIPMENT AND COMPONENTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH NOTIFIERS' RECOMMENDATIONS. CONSULT THE MANUFACTURER'S INSTALLATION MANUALS FOR ALL WIRING DIAGRAMS, SCHEMATICS, PHYSICAL EQUIPMENT SIZES, ETC., BEFORE BEGINNING SYSTEM
- C. ALL EQUIPMENT SHALL BE ATTACHED TO WALLS AND CEILING/FLOOR ASSEMBLIES AND SHALL BE HELD FIRMLY IN PLACE (E.G., DETECTORS SHALL NOT BE SUPPORTED SOLELY BY SUSPENDED CEILINGS). FASTENERS AND SUPPORTS SHALL BE ADEQUATE TO SUPPORT THE REQUIRED LOAD.

D. 2.2 MAIN FIRE ALARM CONTROL PANEL

E. MAIN FACP SHALL BE A HOCHIKI LATITUDE AND SHALL CONTAIN A MICROPROCESSOR BASED CENTRAL PROCESSING UNIT (CPU) AND POWER SUPPLY IN AN ECONOMICAL SPACE SAVING SINGLE BOARD DESIGN. THE CPU SHALL COMMUNICATE WITH AND CONTROL THE FOLLOWING TYPES OF EQUIPMENT USED TO MAKE UP THE SYSTEM: INTELLIGENT ADDRESSABLE SMOKE AND THERMAL (HEAT) DETECTORS, ADDRESSABLE MODULES, PRINTER, ANNUNCIATORS, AND OTHER SYSTEM CONTROLLED DEVICES.

F. OPERATOR CONTROL:

- ACKNOWLEDGE SWITCH:
- a. ACTIVATION OF THE CONTROL PANEL ACKNOWLEDGE SWITCH IN RESPONSE TO NEW ALARMS AND/OR TROUBLES SHALL SILENCE THE LOCAL PANEL PIEZO ELECTRIC SIGNAL AND CHANGE THE ALARM AND TROUBLE LEDS FROM FLASHING MODE TO STEADY-ON MODE. IF MULTIPLE ALARM OR TROUBLE CONDITIONS EXIST, DEPRESSION OF THIS SWITCH SHALL ADVANCE THE LCD DISPLAY TO THE NEXT ALARM OR TROUBLE CONDITION.
- b. DEPRESSION OF THE ACKNOWLEDGE SWITCH SHALL ALSO SILENCE ALL REMOTE ANNUNCIATOR PIEZO SOUNDERS.
- 2. ALARM SILENCE SWITCH: ACTIVATION OF THE ALARM SILENCE SWITCH SHALL CAUSE ALL PROGRAMMED ALARM NOTIFICATION APPLIANCES AND RELAYS TO RETURN TO THE NORMAL CONDITION AFTER AN ALARM CONDITION. THE SELECTION OF NOTIFICATION CIRCUITS AND RELAYS THAT ARE SILENCEABLE BY THIS SWITCH SHALL BE FULLY FIELD PROGRAMMABLE WITHIN THE CONFINES OF ALL APPLICABLE STANDARDS. THE FACP SOFTWARE SHALL INCLUDE SILENCE INHIBIT AND AUTO-SILENCE TIMERS.
- . ALARM ACTIVATE (DRILL) SWITCH: THE ALARM ACTIVATE SWITCH SHALL ACTIVATE ALL NOTIFICATION APPLIANCE CIRCUITS. THE DRILL FUNCTION SHALL LATCH UNTIL THE PANEL IS SILENCED OR RESET.
- 4. SYSTEM RESET SWITCH: ACTIVATION OF THE SYSTEM RESET SWITCH SHALL CAUSE ALL ELECTRONICALLY-LATCHED INITIATING DEVICES, APPLIANCES OR SOFTWARE ZONES, AS WELL AS ALL ASSOCIATED OUTPUT DEVICES AND CIRCUITS, TO RETURN TO THEIR NORMAL CONDITION.
- 5. LAMP TEST: THE LAMP TEST SWITCH SHALL ACTIVATE ALL LOCAL SYSTEM LEDS, LIGHT EACH SEGMENT OF THE LIQUID CRYSTAL DISPLAY AND DISPLAY THE PANEL SOFTWARE REVISION FOR SERVICE PERSONAL.

C. SYSTEM CAPACITY AND GENERAL OPERATION

- 1. THE CONTROL PANEL OR EACH NETWORK NODE SHALL PROVIDE, OR BE CAPABLE OF EXPANSION TO 636 INTELLIGENT/ADDRESSABLE DEVICES.
- 2. THE CONTROL PANEL OR EACH NETWORK NODE SHALL INCLUDE FORM-C ALARM, TROUBLE, SUPERVISORY, AND SECURITY RELAYS RATED AT A MINIMUM OF 2.0 AMPS @ 30 VDC.
- 3. IT SHALL ALSO INCLUDE FOUR CLASS B (NFPA STYLE Y) OR CLASS A (NFPA STYLE Z) PROGRAMMABLE NOTIFICATION APPLIANCE CIRCUITS.
- 4. THE NOTIFICATION APPLIANCE CIRCUITS SHALL BE PROGRAMMABLE TO SYNCRONIZE WITH SYSTEM SENSOR, GENTEX AND WHEELOCK NOTIFICATION APPLIANCES.
- 5. THE SYSTEM SHALL INCLUDE A FULL FEATURED OPERATOR INTERFACE CONTROL AND ANNUNCIATION PANEL THAT SHALL INCLUDE A BACKLIT LIQUID CRYSTAL DISPLAY (LCD), INDIVIDUAL COLOR CODED SYSTEM STATUS LEDS, AND AN ALPHANUMERIC KEYPAD WITH EASY TOUCH RUBBER KEYS FOR THE FIELD PROGRAMMING AND CONTROL OF THE FIRE ALARM
- 6. THE SYSTEM SHALL BE PROGRAMMABLE, CONFIGURABLE, AND EXPANDABLE IN THE FIELD WITHOUT THE NEED FOR SPECIAL TOOLS, PROM PROGRAMMERS OR PC BASED PROGRAMMERS. IT SHALL NOT REQUIRE REPLACEMENT OF MEMORY ICS TO FACILITATE PROGRAMMING CHANGES.
- 7. THE SYSTEM SHALL ALLOW THE PROGRAMMING OF ANY INPUT TO ACTIVATE ANY OUTPUT OR GROUP OF OUTPUTS. SYSTEMS THAT HAVE LIMITED PROGRAMMING (SUCH AS GENERAL ALARM), HAVE COMPLICATED PROGRAMMING (SUCH AS A DIODE MATRIX), OR REQUIRE A LAPTOP PERSONAL COMPUTER ARE NOT CONSIDERED SUITABLE SUBSTITUTES.

THE FACP SHALL SUPPORT UP TO 20 LOGIC EQUATIONS. INCLUDING "AND." "OR." AND "NOT." OR TIME DELAY EQUATIONS TO BE USED FOR ADVANCED PROGRAMMING. LOGIC EQUATIONS SHALL REQUIRE THE USE OF A PC WITH A SOFTWARE UTILITY DESIGNED FOR PROGRAMMING.

- 8. THE FACP OR EACH NETWORK NODE SHALL PROVIDE THE FOLLOWING FEATURES:
- a. DRIFT COMPENSATION TO EXTEND DETECTOR ACCURACY OVER LIFE. DRIFT COMPENSATION SHALL ALSO INCLUDE A SMOOTHING FEATURE, ALLOWING TRANSIENT NOISE SIGNALS TO BE
- b. DETECTOR SENSITIVITY TEST, MEETING REQUIREMENTS OF NFPA 1-2018, CHAPTER 7.
- c. MAINTENANCE ALERT, WITH TWO LEVELS (MAINTENANCE ALERT/MAINTENANCE URGENT), TO WARN OF EXCESSIVE SMOKE DETECTOR DIRT OR DUST ACCUMULATION.
- d. NINE SENSITIVITY LEVELS FOR ALARM, SELECTED BY DETECTOR. THE ALARM LEVEL RANGE SHALL BE .5 TO 2.35 PERCENT PER FOOT FOR PHOTOELECTRIC DETECTORS AND 0.5 TO 2.5 PERCENT PER FOOT FOR IONIZATION DETECTORS. THE SYSTEM SHALL ALSO SUPPORT SENSITIVE ADVANCED DETECTION LASER DETECTORS WITH AN ALARM LEVEL RANGE OF .03 PERCENT PER FOOT TO 1.0 PERCENT PER FOOT. THE SYSTEM SHALL ALSO INCLUDE UP TO NINE LEVELS OF PREALARM, SELECTED BY DETECTOR, TO INDICATE IMPENDING ALARMS TO MAINTENANCE PERSONNEL.
- e. THE ABILITY TO DISPLAY OR PRINT SYSTEM REPORTS.
- f. ALARM VERIFICATION, WITH COUNTERS AND A TROUBLE INDICATION TO ALERT MAINTENANCE PERSONNEL WHEN A DETECTOR ENTERS VERIFICATION 20 TIMES.
- g. PAS PRESIGNAL, MEETING NFPA 1-2018 REQUIREMENTS.
- h. RAPID MANUAL STATION REPORTING (UNDER 3 SECONDS) AND SHALL MEET NFPA 72 CHAPTER 1 REQUIREMENTS FOR ACTIVATION OF NOTIFICATION CIRCUITS WITHIN 10 SECONDS OF INITIATING DEVICE ACTIVATION.
- PERIODIC DETECTOR TEST, CONDUCTED AUTOMATICALLY BY THE SOFTWARE
- SELF OPTIMIZING PRE-ALARM FOR ADVANCED FIRE WARNING, WHICH ALLOWS EACH DETECTOR TO LEARN ITS PARTICULAR ENVIRONMENT AND SET ITS PREALARM LEVEL TO JUST ABOVE NORMAL PEAKS.
- k. CROSS ZONING WITH THE CAPABILITY OF COUNTING: TWO DETECTORS IN ALARM, TWO SOFTWARE ZONES IN ALARM, OR ONE SMOKE DETECTOR AND ONE THERMAL DETECTOR.
- I. WALK TEST, WITH A CHECK FOR TWO DETECTORS SET TO SAME ADDRESS.
- m. CONTROL-BY-TIME FOR NON-FIRE OPERATIONS, WITH HOLIDAY SCHEDULES.
- n. DAY/NIGHT AUTOMATIC ADJUSTMENT OF DETECTOR SENSITIVITY.
- o. DEVICE BLINK CONTROL FOR SLEEPING AREAS.

F. SIGNALING LINE CIRCUITS (SLC):

- EACH FACP OR FACP NETWORK NODE SHALL SUPPORT UP TO TWO SLCS. EACH SLC INTERFACE SHALL PROVIDE POWER TO AND COMMUNICATE WITH UP TO 159 INTELLIGENT DETECTORS (IONIZATION, PHOTOELECTRIC OR THERMAL) AND 159 INTELLIGENT MODULES (MONITOR OR CONTROL) FOR A LOOP CAPACITY OF 318 DEVICES. THE ADDITION OF THE OPTIONAL SECOND LOOP SHALL DOUBLE THE DEVICE CAPACITY. SUPPORTING A TOTAL OF 636 DEVICES. EACH SLC SHALL BE CAPABLE OF NFPA 1-2018 STYLE 4, STYLE 6, OR STYLE 7 (CLASS A OR B) WIRING.
- 2. CPU SHALL RECEIVE ANALOG INFORMATION FROM ALL INTELLIGENT DETECTORS TO BE PROCESSED TO DETERMINE WHETHER NORMAL, ALARM, PREALARM, OR TROUBLE CONDITIONS EXIST FOR EACH DETECTOR. THE SOFTWARE SHALL AUTOMATICALLY MAINTAIN THE DETECTOR'S DESIRED SENSITIVITY LEVEL BY ADJUSTING FOR THE EFFECTS OF ENVIRONMENTAL FACTORS, INCLUDING THE ACCUMULATION OF DUST IN EACH DETECTOR. THE ANALOG INFORMATION SHALL ALSO BE USED FOR AUTOMATIC DETECTOR TESTING AND FOR THE AUTOMATIC DETERMINATION OF DETECTOR MAINTENANCE REQUIREMENTS.

I. POWER SUPPLY:

- 1. A HIGH TECH OFF-LINE SWITCHING POWER SUPPLY SHALL BE AVAILABLE FOR THE FIRE ALARM CONTROL PANEL OR NETWORK NODE AND PROVIDE 6.0 AMPS OF AVAILABLE POWER FOR THE CONTROL PANEL AND PERIPHERAL DEVICES.
- 2. PROVISIONS WILL BE MADE TO ALLOW THE AUDIO-VISUAL POWER TO BE INCREASED AS REQUIRED BY ADDING MODULAR EXPANSION AUDIO-VISUAL POWER SUPPLIES.
- 3. POSITIVE-TEMPERATURE-COEFFICIENT (PTC) THERMISTORS, CIRCUIT BREAKERS, OR OTHER OVER-CURRENT PROTECTION SHALL BE PROVIDED ON ALL POWER OUTPUTS. THE POWER SUPPLY SHALL PROVIDE AN INTEGRAL BATTERY CHARGER FOR USE WITH BATTERIES UP TO 55 AH OR MAY BE USED WITH AN EXTERNAL BATTERY AND CHARGER SYSTEM. BATTERY ARRANGEMENT MAY BE CONFIGURED IN THE FIELD.
- 4. THE POWER SUPPLY SHALL CONTINUOUSLY MONITOR ALL FIELD WIRES FOR EARTH GROUND CONDITIONS, AND SHALL HAVE THE FOLLOWING LED INDICATORS:

GROUND FAULT LED AC POWER FAIL LED NAC ON LED (4)

- 5. THE MAIN POWER SUPPLY SHALL OPERATE ON 120 VAC, 60 HZ, AND SHALL PROVIDE ALL NECESSARY POWER FOR THE FACP.
- 6. THE MAIN POWER SUPPLY SHALL PROVIDE A BATTERY CHARGER USING DUAL-RATE CHARGING TECHNIQUES FOR FAST BATTERY RECHARGE AND BE CAPABLE OF CHARGING BATTERIES UP TO
- 7. ALL CIRCUITS SHALL BE POWER-LIMITED, PER UL864 REQUIREMENTS.

2.3 SYSTEM COMPONENTS

- A. STROBE LIGHTS SHALL MEET THE REQUIREMENTS OF THE ADA, UL STANDARD 1971, BE FULLY SYNCHRONIZED, AND SHALL MEET THE FOLLOWING CRITERIA:
- 1. THE MAXIMUM PULSE DURATION SHALL BE 2/10 OF ONE SECOND
- 2. STROBE INTENSITY SHALL MEET THE REQUIREMENTS OF UL 1971.
- 3. THE FLASH RATE SHALL MEET THE REQUIREMENTS OF UL 1971

2.4 SYSTEM COMPONENTS - ADDRESSABLE DEVICES

A. ADDRESSABLE DEVICES - GENERAL:

- 1. ADDRESSABLE DEVICES SHALL USE SIMPLE TO INSTALL AND MAINTAIN DECADE, DECIMAL ADDRESS SWITCHES. DEVICES SHALL BE CAPABLE OF BEING SET TO AN ADDRESS IN A RANGE OF 001 TO 159.
- 2. ADDRESSABLE DEVICES, WHICH USE A BINARY-CODED ADDRESS SETTING METHOD, SUCH AS A DIP-SWITCH, ARE NOT AN ALLOWABLE SUBSTITUTE.
- 3. DETECTORS SHALL BE INTELLIGENT (ANALOG) AND ADDRESSABLE, AND SHALL CONNECT WITH TWO WIRES TO THE FIRE ALARM CONTROL PANEL SIGNALING LINE CIRCUITS.
- 4. ADDRESSABLE SMOKE AND THERMAL DETECTORS SHALL PROVIDE DUAL ALARM AND POWER/POLLING LEDS. BOTH LEDS SHALL FLASH GREEN UNDER NORMAL CONDITIONS, INDICATING THAT THE DETECTOR IS OPERATIONAL AND IN REGULAR COMMUNICATION WITH THE CONTROL PANEL, AND BOTH LEDS SHALL BE PLACED INTO STEADY RED ILLUMINATION BY THE CONTROL PANEL, INDICATING THAT AN ALARM CONDITION HAS BEEN DETECTED. IF REQUIRED THE LED FLASH SHALL HAVE THE ABILITY TO BE REMOVED FROM THE SYSTEM PROGRAM. AN OUTPUT CONNECTION SHALL ALSO BE PROVIDED IN THE BASE TO CONNECT AN EXTERNAL REMOTE ALARM LED.
- 5. THE FIRE ALARM CONTROL PANEL SHALL PERMIT DETECTOR SENSITIVITY ADJUSTMENT THROUGH FIELD PROGRAMMING OF THE SYSTEM. THE PANEL ON A TIME-OF-DAY BASIS SHALL AUTOMATICALLY ADJUST SENSITIVITY.
- 6. USING SOFTWARE IN THE FACP, DETECTORS SHALL AUTOMATICALLY COMPENSATE FOR DUST ACCUMULATION AND OTHER SLOW ENVIRONMENTAL CHANGES THAT MAY AFFECT THEIR PERFORMANCE. THE DETECTORS SHALL BE LISTED BY UL AS MEETING THE CALIBRATED SENSITIVITY TEST REQUIREMENTS OF NFPA 1-2018, CHAPTER 7.
- 7. THE DETECTORS SHALL BE CEILING-MOUNT AND SHALL INCLUDE A SEPARATE TWIST-LOCK BASE WITH TAMPER PROOF FEATURE. BASES SHALL INCLUDE A SOUNDER BASE WITH A BUILT-IN (LOCAL) SOUNDER RATED AT 85 DBA MINIMUM, A RELAY BASE AND AN ISOLATOR BASE DESIGNED FOR STYLE 7 APPLICATIONS.
- 8. THE DETECTORS SHALL PROVIDE A TEST MEANS WHEREBY THEY WILL SIMULATE AN ALARM CONDITION AND REPORT THAT CONDITION TO THE CONTROL PANEL. SUCH A TEST MAY BE INITIATED AT THE DETECTOR ITSELF (BY ACTIVATING A MAGNETIC SWITCH) OR INITIATED REMOTELY ON COMMAND FROM THE CONTROL PANEL.
- 9. DETECTORS SHALL ALSO STORE AN INTERNAL IDENTIFYING TYPE CODE THAT THE CONTROL PANEL SHALL USE TO IDENTIFY THE TYPE OF DEVICE (ION, PHOTO, THERMAL).
- 10. DETECTORS WILL OPERATE IN AN ANALOG FASHION, WHERE THE DETECTOR SIMPLY MEASURES ITS DESIGNED ENVIRONMENT VARIABLE AND TRANSMITS AN ANALOG VALUE TO THE FACP BASED ON REAL-TIME MEASURED VALUES. THE FACP SOFTWARE, NOT THE DETECTOR, SHALL MAKE THE ALARM/NORMAL DECISION, THEREBY ALLOWING THE SENSITIVITY OF EACH DETECTOR TO BE SET IN THE FACP PROGRAM AND ALLOWING THE SYSTEM OPERATOR TO VIEW THE CURRENT ANALOG VALUE OF EACH DETECTOR.
- 11. ADDRESSABLE DEVICES SHALL STORE AN INTERNAL IDENTIFYING CODE THAT THE CONTROL PANEL SHALL USE TO IDENTIFY THE TYPE OF DEVICE.
- 12. A MAGNETIC TEST SWITCH SHALL BE PROVIDED TO TEST DETECTORS AND MODULES. DETECTORS SHALL REPORT AN INDICATION OF AN ANALOG VALUE REACHING 100% OF THE ALARM THRESHOLD.
- 13. ADDRESSABLE MODULES SHALL MOUNT IN A 4-INCH SQUARE (101.6 MM SQUARE), 2-1/8 INCH (54 MM) DEEP ELECTRICAL BOX. AN OPTIONAL SURFACE MOUNT LEXAN ENCLOSURE SHALL BE AVAILABLE.

B. ADDRESSABLE MANUAL FIRE ALARM BOX (MANUAL STATION):

- ADDRESSABLE MANUAL FIRE ALARM BOXES SHALL, ON COMMAND FROM THE CONTROL PANEL, SEND DATA TO THE PANEL REPRESENTING THE STATE OF THE MANUAL SWITCH AND THE ADDRESSABLE COMMUNICATION MODULE STATUS. THEY SHALL USE A KEY OPERATED TEST-RESET LOCK, AND SHALL BE DESIGNED SO THAT AFTER ACTUAL EMERGENCY OPERATION, THEY CANNOT BE RESTORED TO NORMAL USE EXCEPT BY THE USE OF A KEY.
- 2. ALL OPERATED STATIONS SHALL HAVE A POSITIVE, VISUAL INDICATION OF OPERATION AND UTILIZE A KEY TYPE RESET.
- 3. MANUAL FIRE ALARM BOXES SHALL BE CONSTRUCTED OF LEXAN WITH CLEARLY VISIBLE OPERATING INSTRUCTIONS PROVIDED ON THE COVER. THE WORD FIRE SHALL APPEAR ON THE FRONT OF THE STATIONS IN RAISED LETTERS, 1.75 INCHES (44 MM) OR LARGER.
- C. INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR: THE DETECTORS SHALL USE THE PHOTOELECTRIC (LIGHT-SCATTERING) PRINCIPAL TO MEASURE SMOKE DENSITY AND SHALL, ON COMMAND FROM THE CONTROL PANEL, SEND DATA TO THE PANEL REPRESENTING THE ANALOG LEVEL OF SMOKE DENSITY.

D. INTELLIGENT LASER PHOTO SMOKE DETECTOR:

- 1. THE INTELLIGENT LASER PHOTO SMOKE DETECTOR SHALL BE A SPOT TYPE DETECTOR THAT INCORPORATES AN EXTREMELY BRIGHT LASER DIODE AND AN INTEGRAL LENS THAT FOCUSES THE LIGHT BEAM TO A VERY SMALL VOLUME NEAR A RECEIVING PHOTO SENSOR. THE SCATTERING OF SMOKE PARTICLES SHALL ACTIVATE THE PHOTO SENSOR.
- 2. THE LASER DETECTOR SHALL HAVE CONDUCTIVE PLASTIC SO THAT DUST ACCUMULATION IS REDUCED SIGNIFICANTLY.
- 3. THE INTELLIGENT LASER PHOTO DETECTOR SHALL HAVE NINE SENSITIVITY LEVELS AND BE SENSITIVE TO A MINIMUM OBSCURATION OF 0.03 PERCENT PER FOOT.
- 4. THE LASER DETECTOR SHALL NOT REQUIRE EXPENSIVE CONDUIT, SPECIAL FITTINGS OR PVC
- 5. THE INTELLIGENT LASER PHOTO DETECTOR SHALL SUPPORT STANDARD, RELAY, ISOLATOR AND SOUNDER DETECTOR BASES.
- 6. THE LASER PHOTO DETECTOR SHALL NOT REQUIRE OTHER CLEANING REQUIREMENTS THAN THOSE LISTED IN NFPA 72. REPLACEMENT, REFURBISHMENT OR SPECIALIZED CLEANING OF THE DETECTOR HEAD SHALL NOT BE REQUIRED.
- 7. THE LASER PHOTO DETECTOR SHALL INCLUDE TWO BICOLOR LEDS THAT FLASH GREEN IN NORMAL OPERATION AND TURN ON STEADY RED IN ALARM.
- E. INTELLIGENT IONIZATION SMOKE DETECTOR: THE DETECTORS SHALL USE THE DUAL-CHAMBER IONIZATION PRINCIPAL TO MEASURE PRODUCTS OF COMBUSTION AND SHALL, ON COMMAND FROM THE CONTROL PANEL, SEND DATA TO THE PANEL REPRESENTING THE ANALOG LEVEL OF PRODUCTS OF COMBUSTION.
- INTELLIGENT THERMAL DETECTORS: THERMAL DETECTORS SHALL BE INTELLIGENT ADDRESSABLE DEVICES RATED AT 135 DEGREES FAHRENHEIT (58 DEGREES CELSIUS) AND HAVE A RATE-OF-RISE ELEMENT RATED AT 15 DEGREES F (9.4 DEGREES C) PER MINUTE. IT SHALL CONNECT VIA TWO WIRES TO THE FIRE ALARM CONTROL PANEL SIGNALING LINE CIRCUIT.

2.5 BATTERIES

- A. THE BATTERY SHALL HAVE SUFFICIENT CAPACITY TO POWER THE FIRE ALARM SYSTEM FOR NOT LESS THAN TWENTY-FOUR HOURS PLUS 5 MINUTES OF ALARM UPON A NORMAL AC POWER FAILURE
- B. THE BATTERIES ARE TO BE COMPLETELY MAINTENANCE FREE. NO LIQUIDS ARE REQUIRED. FLUID LEVEL CHECKS FOR REFILLING, SPILLS, AND LEAKAGE SHALL NOT BE REQUIRED.
- C. IF NECESSARY TO MEET STANDBY REQUIREMENTS, EXTERNAL BATTERY AND CHARGER SYSTEMS MAY BE USED.

2.6 SPEAKERS

WHEELOCK ADVANCE OUTDOOR SPEAKERS AND SPEAKER STROBES SHALL MOUNT TO A WEATHERPROOF BACK BOX. A UNIVERSAL MOUNTING PLATE SHALL BE USED FOR MOUNTING CEILING AND WALL PRODUCTS. THE NOTIFICATION APPLIANCE CIRCUIT AND AMPLIFIER WIRING SHALL TERMINATE AT THE UNIVERSAL MOUNTING PLATE. ALSO, SPECTRALERT ADVANCE SPEAKER STROBES, WHEN USED WITH THE SYNCCIRCUIT $^{
m TM}$ MODULE ACCESSORY, SHALL BE POWERED FROM A NON-CODED NOTIFICATION APPLIANCE CIRCUIT OUTPUT AND SHALL OPERATE ON A NOMINAL 12 OR 24 VOLTS. WHEN USED WITH THE SYNCCIRCUIT M MODULE, 12-VOLT-RATED NOTIFICATION APPLIANCE CIRCUIT OUTPUTS SHALL OPERATE BETWEEN 8.5 AND 17.5 VOLTS; 24-VOLT-RATED NOTIFICATION APPLIANCE CIRCUIT OUTPUTS SHALL OPERATE BETWEEN 16.5 AND 33 VOLTS. OUTDOOR SPECTRALERT ADVANCE PRODUCTS SHALL OPERATE BETWEEN -40°F AND 151°F FROM A REGULATED DC, OR FULL-WAVE RECTIFIED, UNFILTERED POWER SUPPLY.

SPEAKER:

SPEAKER SHALL BE A WHEELOCK ET-1010 _____ DUAL-VOLTAGE TRANSFORMER SPEAKER CAPABLE OF OPERATING AT 25.0 OR 70.7 NOMINAL VRMS. SPEAKER SHALL BE LISTED TO UNDERWRITERS LABORATORIES STANDARD S4048 FOR OUTDOOR FIRE PROTECTIVE SIGNALING SYSTEMS. SPEAKER SHALL HAVE A FREQUENCY RANGE OF 400 TO 4,000 HZ AND SHALL HAVE AN OPERATING TEMPERATURE FROM -40°F AND 150.8°F. SPEAKER SHALL HAVE POWER TAPS AND WATTAGE SETTINGS THAT ARE SELECTED BY ROTARY SWITCHES. THE SPEAKER MUST BE INSTALLED WITH ITS WEATHERPROOF BACK BOX IN ORDER TO REMAIN OUTDOOR APPROVED PER UL LISTING S4048. THE SPEAKER SHALL BE SUITABLE FOR USE IN AIR HANDLING SPACES AND WET ENVIRONMENTS.

SPEAKER STROBE COMBINATION:

THE SPEAKER STROBE SHALL BE A HOCHIKI HSS LISTED TO UL 1638 AND UL 1480 AND BE APPROVED FOR FIRE PROTECTIVE SIGNALING SYSTEMS. SPEAKER SHALL BE CAPABLE OF OPERATING AT 25.0 OR 70.0 NOMINAL VRMS AND SHALL HAVE A FREQUENCY RANGE OF 400 TO 4,000 HZ. SPEAKER SHALL HAVE POWER TAPS THAT ARE SELECTED BY ROTARY SWITCH. THE STROBE SHALL CONSIST OF A XENON FLASH TUBE WITH ASSOCIATED LENS/REFLECTOR SYSTEM AND OPERATE ON EITHER 12 OR 24 VOLTS. THE STROBE SHALL ALSO FEATURE SELECTABLE CANDELA OUTPUT, PROVIDING OPTIONS FOR 15 OR 15/75 CANDELA WHEN OPERATING ON 12 VOLTS AND 15, 15/75, 30, 75, 110, 115, 135, 150, 177 OR 185 CANDELA WHEN OPERATING ON 24 VOLTS. THE STROBE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT REQUIREMENT FOR VISIBLE SIGNALING APPLIANCES, FLASHING AT 1 HZ OVER THE STROBE'S ENTIRE OPERATING VOLTAGE RANGE. THE SPEAKER STROBE MUST BE INSTALLED WITH ITS WEATHERPROOF BACK BOX IN ORDER TO REMAIN OUTDOOR APPROVED PER UL. THE SPEAKER STROBE SHALL BE SUITABLE FOR USE IN WET ENVIRONMENTS.

END OF SECTION 28 31 11

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122605 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗹 DATE: 05/11/2023



BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD, CA 93305

WELLNESS CENTER

Project Address:

DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL

1100 CITADLE STREET BAKERSFIELD, CA 93307



ARCHITECTURE **ENGINEERING INTERIOR DESIGN**

by SOMAM, Inc.

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FIRE ALARM SPECIFICATIONS

Job No.

Sheet No.:



CLASSROOM

BLDG 'F' DSA

APP#03-118394

CLASSROOM BLDG 'D' DSA

APP#03-118394

(E) HYDRANT

TEST FLOW HYDRANT,

HYDRAULIC SOURCE.

CLASSROOM

BLDG 'C' DSA

APP#03-118394

20

LIGHT HAZARD AREAS

- 1. ALL CLASSROOMS, OFFICE AREAS, CORRIDORS, BATHROOMS, ATTICS AND SIMILAR AREAS ARE LIGHT HAZARD. DENSITY 0.10 GPM/FT².
- MAXIMUM HEAD SPACING SHALL NOT EXCEED 15'X15'. 2. HOSE ALLOWANCE FOR LIGHT HAZARD SHALL BE 100 GPM.

SPRINKLER SPECIFICATIONS

SYSTEM DESIGN:

- 1. SYSTEM SHALL BE DESIGNED TO CONFORM WITH NFPA 13 (2016), CBC (2019), AND LOCAL MUNICIPAL CODES.
 - 2. SYSTEM TO BE AUTOMATIC WET PIPE SPRINKLER SYSTEM. 3. SPRINKLER DISCHARGE DENSITY SHALL BE A MINIMUM OF 0.10

4. SPRINKLER TEMPERATURE RATINGS SHALL BE 155° FOR ALL

- **GPM/SQFT FOR LIGHT HAZARD AREAS**
- CONDITIONED AREAS AND 200° FOR NON-CONDITIONED AREAS 5. SPACING SHALL NOT EXCEED 225 SQFT IN LIGHT HAZARD AREAS, 130
- SQFT IN CONCEALED OBSTRUCTED AREAS. 6. BUILDING SHALL BE SUPPLIED AS SHOWN ON SITE PLAN.
- FLOW DETECTOR AND TAMPER RESISTANT VALVES WILL BE SUPPLIED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR
- 7. AND WIRED BY ALARM CONTRACTOR. 8. FIRE SPRINKLER PIPING SHALL BE AS FOLLOWS (UNLESS NOTED
- OTHERWISE ON PLANS): A. PIPING 11/4" AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL WITH
- ROLLED FITTINGS.
- B. PIPING LESS THAN 11/4" SHALL BE SCHEDULE 40 BLACK STEEL. THREADED FITTINGS.
- 9. HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 (2016). 10. SPRINKLERS TO BE INSTALLED PER NFPA (2016) §8.6.4.1.2. SPRINKLER DEFLECTORS TO BE WITHIN 1"-6" BELOW STRUCTURAL MEMBERS AND A MAXIMUM DISTANCE OF 22" BELOW THE ROOF
- DECK/CEILING (BOTTOM OF INSULATION PER NFPA 13 §8.5.4.1.3. 11. MICROBIAL INDUCED CORROSION WILL NOT BE A FACTOR FOR THIS
- 12. ACCEPTANCE TEST IN ACCORDANCE WITH NFPA 13 (2016).

GENERAL NOTES

SPRINKLER SYSTEM DESIGNED IN ACCORDANCE WITH NFPA 13 (2016). ALL WORK TO BE DONE IN ACCORDANCE WITH THESE PLANS, STATE, LOCAL, AND NATIONAL CODES.

THESE DRAWINGS ARE SCHEMATIC IN NATURE, AND ARE NOT INTENDED TO SHOW EVERY MINOR DETAIL. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE ACCEPTABLE WORKING INSTALLATION.

CONTRACTOR TO BID SYSTEM AS DESIGNED (SCHEMATICALLY) BY THE DESIGNER. ANY ALTERNATE DESIGNS BY CONTRACTOR ARE TO BE SUBMITTED AND APPROVED BY ENGINEER PRIOR TO BIDDING. ANY DEVIATIONS FROM THE ORIGINAL DESIGN INTENTION SHALL BE CLOUDED AND NOTED ON SHOP DRAWINGS.

GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR INSURING ALL SUB-CONTRACTOR'S COORDINATE SHOP DRAWINGS PRIOR TO ORDERING OR INSTALLATION OF ANY EQUIPMENT, DEVICE, MATERIAL, AND ETC. SUBMISSION OF SHOP DRAWINGS TO THE ENGINEER OF RECORD CONSTITUTES THAT THE DRAWINGS SUBMITTED HAVE BEEN COORDINATED AMONGST THE TRADES. FAILURE TO COORDINATE SHOP DRAWINGS DOES NOT CONSTITUTE A CHANGE ORDER TO THE OWNER.

ANY COORDINATION ITEMS THAT ARISE FROM COORDINATION OF TRADES SHALL EITHER BE HANDLED IN THE FIELD AND SHOWN ON THE AS-BUILTS. OR SHALL BE PROVIDED TO THE ARCHITECT BY RFI DETAILING COORDINATION ISSUE AND PROPOSED SOLUTION. COORDINATION ISSUES THAT ARISE AFTER DRAWINGS ARE APPROVED SHALL BE SHOWN ON THE AS-BUILTS.

CONTRACTOR TO PROVIDE SIX (6) SETS OF THE FOLLOWING:

- A. COORDINATED SHOP DRAWINGS INCLUDING ALL CUT LENGTHS. B. BOUND SUBMITTALS INCLUDING COVER PAGE, PIPING, HARDWARE, AND MATERIALS (INCLUDING FIRE STOPPING). COVER PAGE TO INCLUDE PROJECT NAME, SPRINKLER CONTRACTOR, GENERAL CONTRACTOR, ARCHITECT, AND DATE SUBMITTED FOR REVIEW.
- ALL ITEMS REQUIRED BY NFPA 13 (2016) CHAPTER 23 (FOR WORKING DRAWINGS) SHALL BE PROVIDED ON THE SHOP DRAWINGS, SUBMITTALS ARE IN ADDITION AND NOT IN LIEU OF THIS REQUIREMENT.

ACTUAL SPACING FOR SPRINKLER PIPING AND HEADS MAY VARY WITH FIELD COORDINATION ISSUES, BUT SHALL MEET MINIMUM REQUIREMENTS OF NFPA 13 (2016).

ALL HANGERS, THREADED ROD, AND HARDWARE SHALL BE HOT DIPPED GALVANIZED.

ALL UNDERGROUND PVC, C-900, OR OTHER PLASTIC PIPING IS UTILIZED SHALL BE EQUIPPED WITH A SUITABLE MAGNETIC LOCATOR TAPE INSTALLED APPROPRIATELY TO THE TOP OF THE PIPING.

HEADS ARE TO BE LOCATED CENTER TILE (OR AS SHOWN) ACCORDING TO INDUSTRY STANDARDS AND PRACTICES.

LOCATION OF SEISMIC HANGERS ARE SCHEMATIC IN NATURE AND INTENDED TO SHOW APPROXIMATE LOCATIONS OF RESTRAINTS. SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR SHOWING THE EXACT LOCATION OF SEISMIC RESTRAINTS ON SHOP DRAWINGS AND AS-BUILTS.

SHOP DRAWINGS SHALL DESIGNATE THE TYPE AND LOCATION OF EACH RESTRAINT AND SHALL BE ACCOMPANIED BY A DETAIL AND CALCULATIONS IN ACCORDANCE WITH NFPA

ANY SUBSTITUTION OF "FLEXIBLE" TYPE PIPING IN LIEU OF "RIGID" PIPE OR ANY CHANGES TO SIZE, MANUFACTURER OR LENGTHS OF "FLEXIBLE" TYPE PIPING WILL REQUIRED RESUBMITTAL OF PIPING PLANS, PRODUCT DATA SHEETS AND HYDRAULIC CALCULATIONS TO DSA FLS FOR REVIEW AND

integrated designs

by SOMAM, Inc.

ARCHITECTURE ENGINEERING INTERIOR DESIGN

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

REVIEWED FOR

SS FLS ACS

BAKERSFIELD

CITY SCHOOL

DISTRICT

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WELLNESS CENTER

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Project Name:

Project Address:

APP: 03-122605 INC:

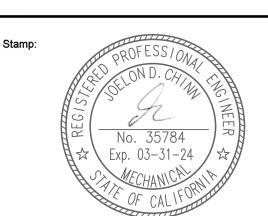
DATE: 05/11/2023

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Sheet Title:

FIRE SPRINKLER SITE PLAN & **NOTES**

5527

Sheet No.:

F1.01

Hydrant Flow Test Report

Test Date 10/26/2022

Location

Martin Luther King Jr. Elementary School

1100 Citadel St. Bakersfield, CA 93307

<u>Notes</u>

CALCULATIONS.

P.I.V PER CIVIL

4" PVC C900

SYSTEM RISER -

AREA OF WORK

WELLNESS CENTER

4inch Big Hose Monster used for flow test Flow: Center of Campus Read: East of building A & B

Read Hydrant 54 psi static pressure

34 psi residual pressure

1.5 ft hydrant elevation Flow Hydrant(s) Flow Pressure .85

Test Time 4:00pm

RLH Fire Protection

4300 Stine Rd. Ste 800

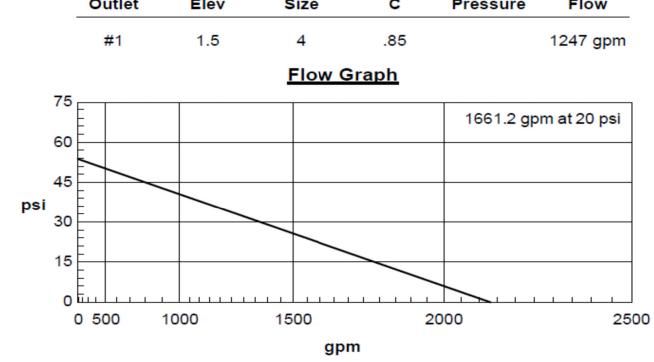
Bakersfield, CA 93308

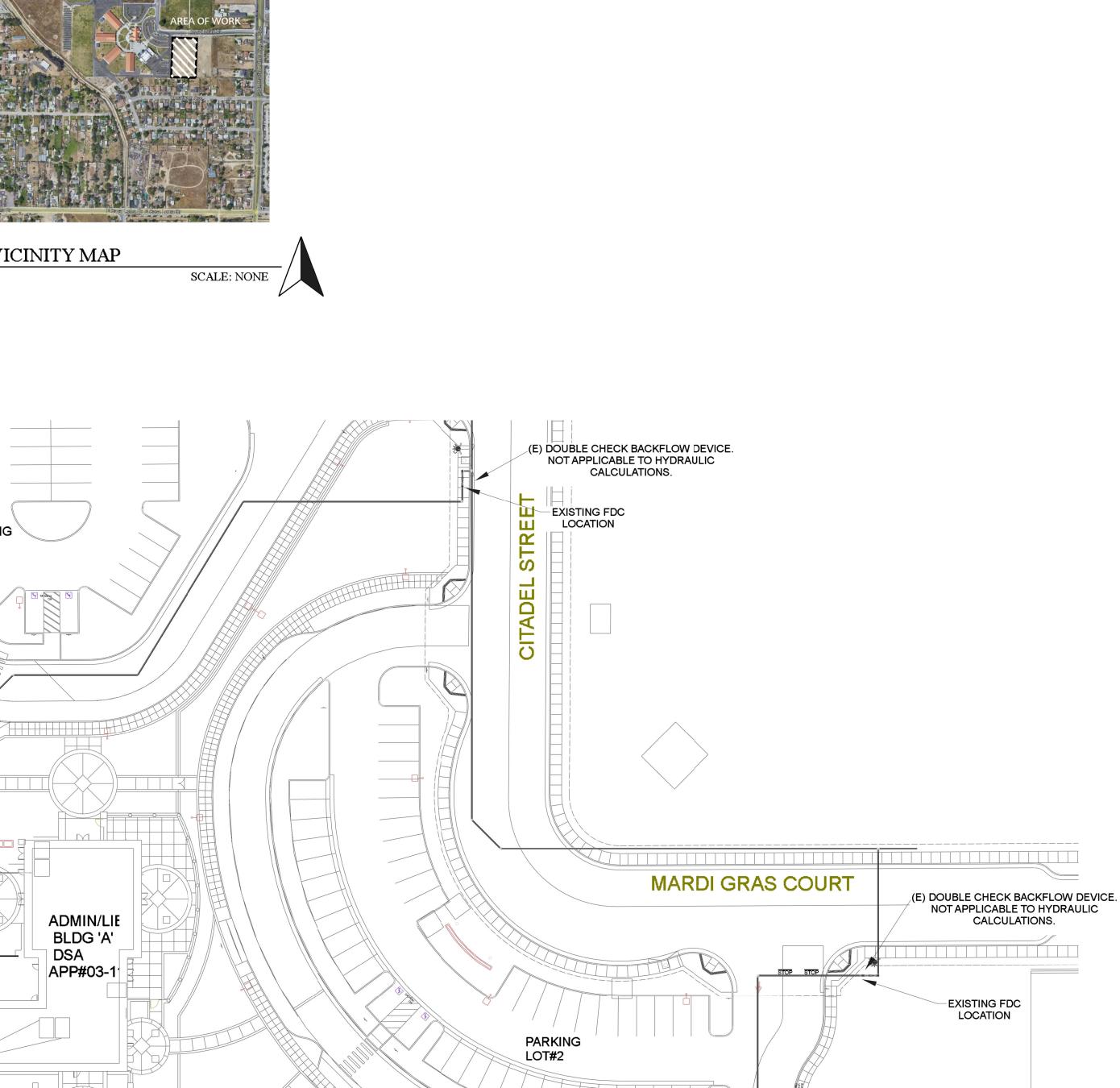
Josh Castillo & Randy Seaton

Tested by

661-322-9344

LIC# 777717





(E) HYDRANT 100GPM HOSE

ALLOWANCE

EXISTING UTILITY YARD

SCALE: NONE

MULTI-PURPOSE BLDG 'B' DSA

APP#03-118394

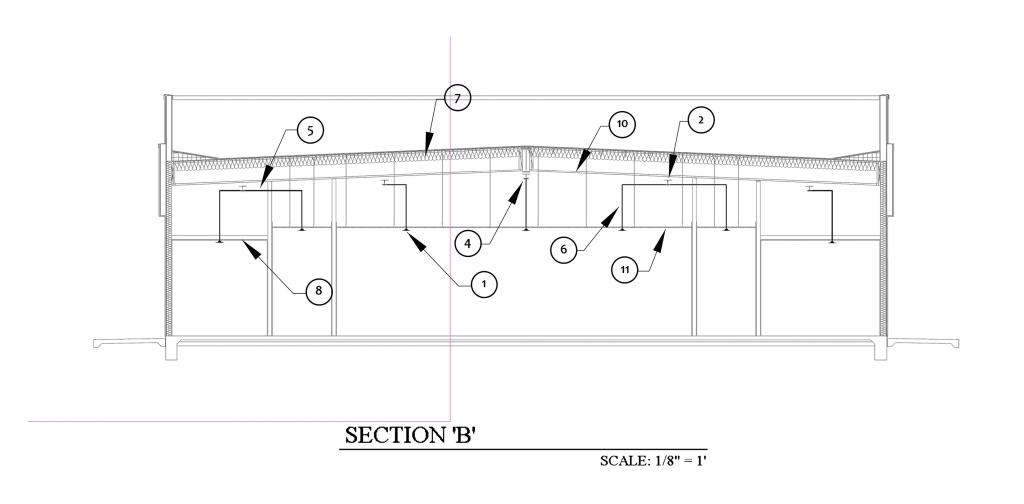
HYDRAULIC REFERENCE SITE PLAN

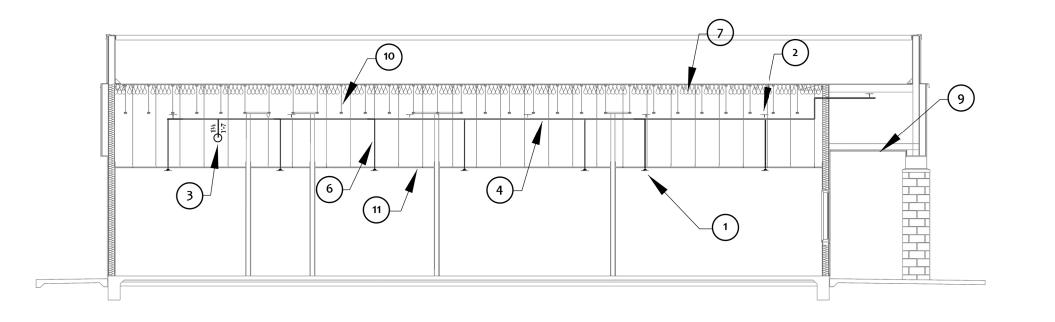
CONNECTION TO EXISING 8" UNDERGROUND

REFER TO HYDRAULIC CALCULATIONS FOR EQUIVALENT LENGTHS

FIRE WATER UG PIPING IS SHOWN FOR

HYDRAULIC REFERENCE ONLY.
REFER TO CIVIL SHEETS FOR FIRE
WATER PLAN.

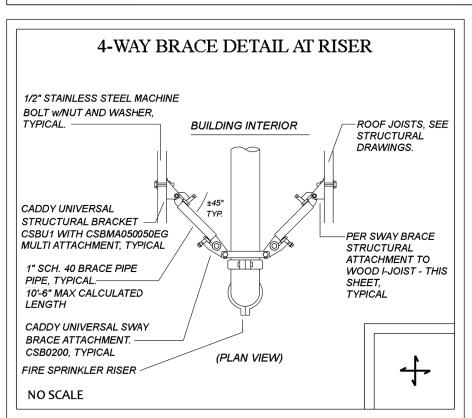




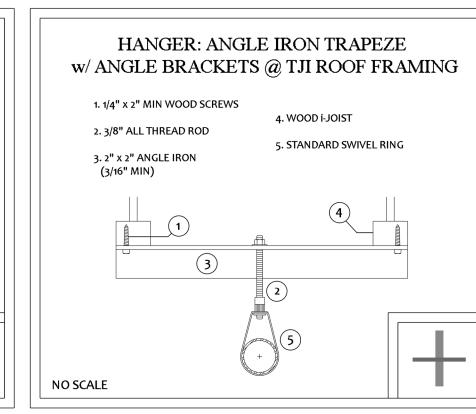
SECTION 'A'

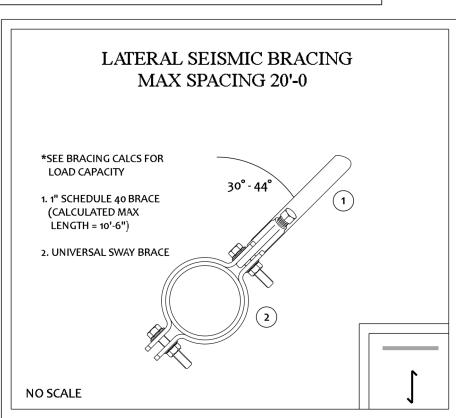
SCALE: 1/8'' = 1'

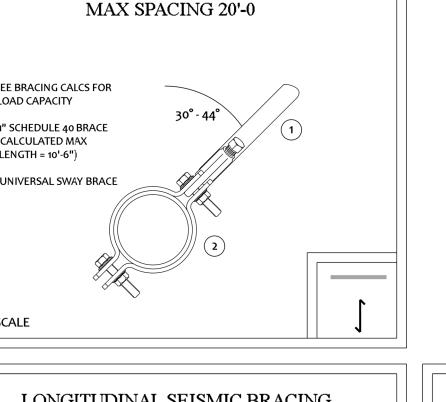
RISER SPIGOT DETAIL **DETAIL KEY NOTES:** 1. 4" FIRE SERVICE PIPING PER CIVIL DRAWINGS. PROVIDE MAG-DETECTABLE TAPE OVER PIPE PER CIVIL DRAWINGS NO FITTINGS SHALL 2. 4" STAINLESS STEEL IN-BUILDING RISER ASSEMBLY OCCUR BELOW AMES SERIES IBR IN-BUILDING RISER 4" FOOTING 3. CONCRETE THRUST BLOCK PER CIVIL DRAWINGS 4. CONCRETE SLAB PER ARCHITECTURAL PLAN. 5. 4" NOMINAL ANNULAR CLEARANCE PER NFPA REQUIREMENTS. USE 12" BELOW FOOTING DIAMETER CONCRETE TUBE FORM (SONOTUBE) AND FILL WITH PEA-SIZED 6. OVERHEAD SPRINKLER SYSTEM POINT OF CONNECTION - 4" FLANGE 7. EXTERIOR WALL PER ARCHITECTURAL PLAN. 8. ENCASE METAL PIPE TO PVC TRANSITION w/POLYETHYLENE WRAP PER ANSI/AWWA C105/A21.5 & ASTM A674. CONCRETE THRUST BLOCK PER CIVIL DRAWINGS

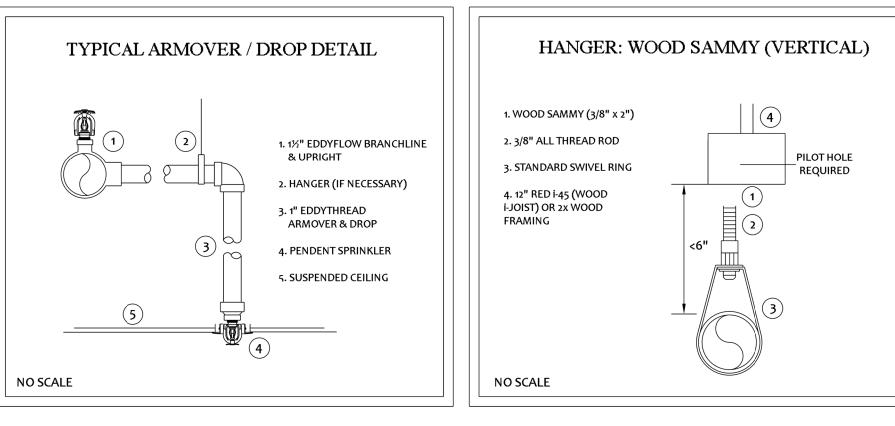


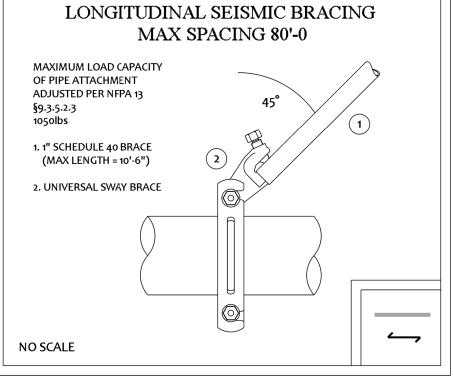
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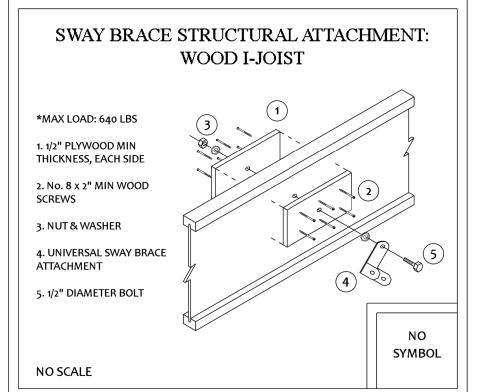












TRAPEZE MODULUS CALCULATION

SPAN INFORMATION

TRAPEZE MATERIAL

ANGLE IRON Trapeze Material Type

2 inch Trapeze Size/Depth

PIPE TO BE SUPPORTED

4.22 Weight per Foot

313.30 Adjusted Point Load

15-0 Length of Pipe

MIN REQ'D MODULUS

2.00 Length of Trapeze (in Feet)

0.338 Section Modulus of Trapeze Material

EDDYFLOW Piping Material to be Supported
2 inch Maximum Size of Pipe being supported

(NFPA Tables are based on 15-feet of pipe)

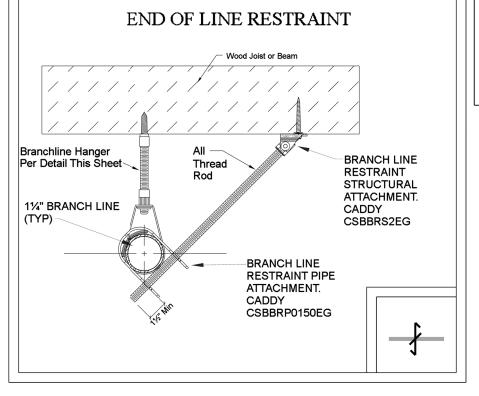
Minimum Required Section Modulus for a maximum allowable bending stress of

15 kpsi with the adjusted trapeze

length and point load location.

(1.o´ Safety Factor plus an additional 250lb load)

1.00 Location of Point Load



SECTION NOTES:

- 1 PENDENT SPRINKLER
- 2 UPRIGHT SPRINKLER
- 3 SCHEDULE 10 MAIN PIPING
- (4) EDDYFLOW BRANCHLINE PIPING
- 5 SCHEDULE 40 ARM-OVER PIPING
- 6 SCHEDULE 40 DROP PIPING
- 7 INSULATION
- 8 SHEETROCK CEILING
- 9) 3/4" THICK EXTERIOR CEMENT PLASTER
- 10) 28" Red I-65 JOIST

RISER DETAIL

+10'-6 FEED MAIN

(14)

1 4" UG STUB-UP

RISER DETAIL KEYNOTES

3 4" x 2" GRV CONCENTRIC REDUCER

4 2" FLEXIBLE GROOVED COUPLING

(TERMINATE AT SPLASH BLOCK

EXTERIOR OF BUILDING)

WITHIN 24" OF TOP AND

2 FLANGE CONNECTION (4")

BOTTOM OF RISER

6 1¼" EDDYTHREAD DRAIN

7 1¼" TEST AN DRAIN VALVE

8 SYSTEM PRESSURE GAUGE

HYDRAULIC INFO SIGN
AND GENERAL INFORMATION
SIGN PER NFPA 13 §25.6

PRESSURE RELIEF VALVE

(AGF 1000)

11) SPARE HEAD KIT

12 FLOW SWITCH

(14) ALARM BELL

(POTTER 2" VSR)

4 WAY BRACE WITHIN 24"

OF CENTERLINE OF RISER

5 2" EDDYFLOW RISER

(11) SUSPENDED ACOUSTIC CEILING TILE

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BAKERSFIELD CITY SCHOOL **DISTRICT**

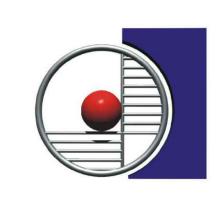
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WELLNESS CENTER

Project Address:

DR. MARTIN LUTHER KING JR. ELEMENTARY SCHOOL

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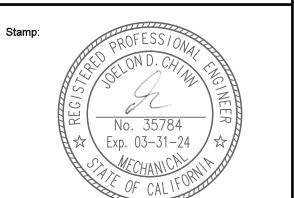
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ARCHITECTURE **ENGINEERING INTERIOR DESIGN**

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NOT TO SCALE

FIRE SPRINKLER **NOTES & DETAILS**

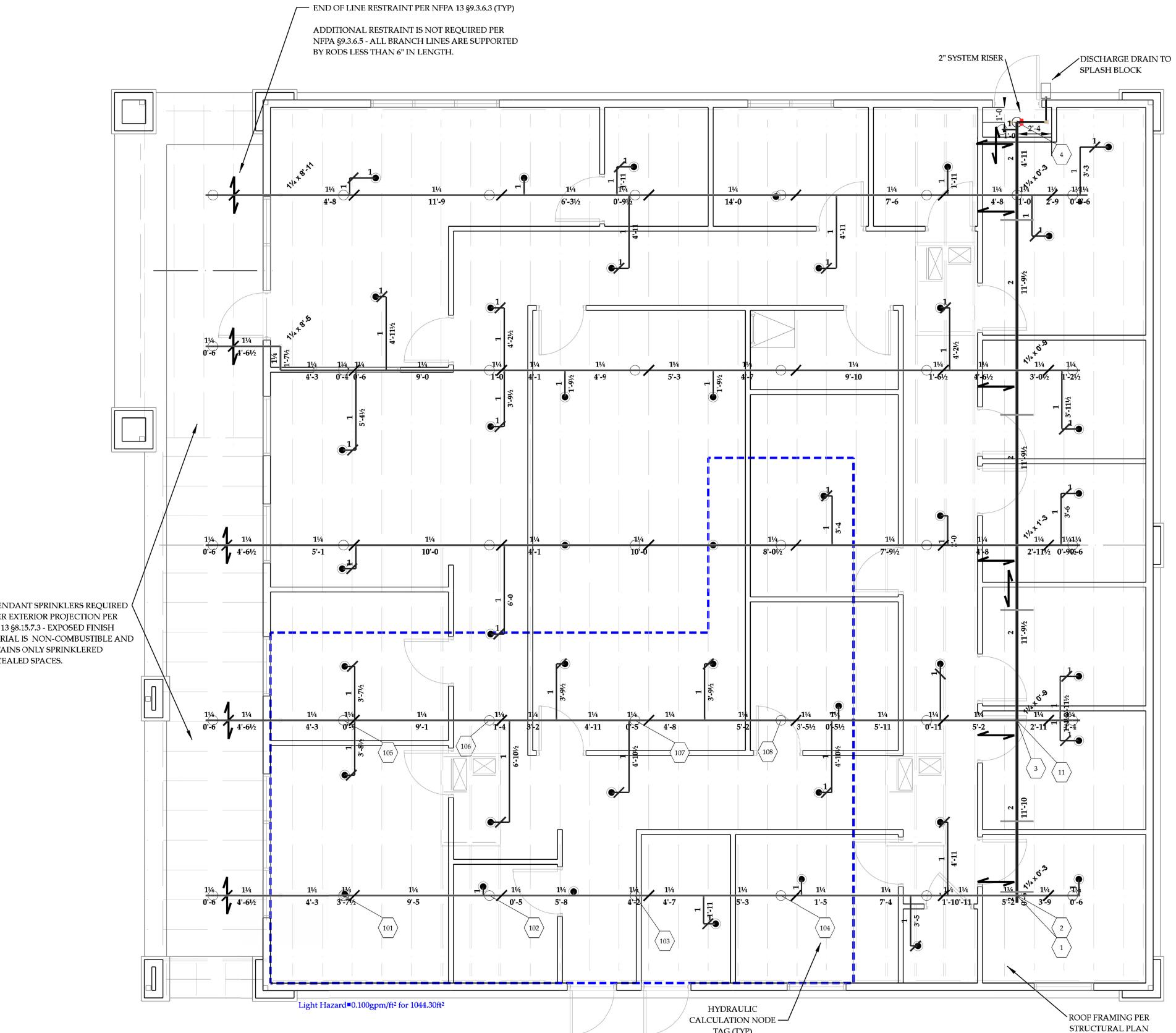


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F1.02



SCALE: 1/8'' = 1'-0

PIPING PLAN

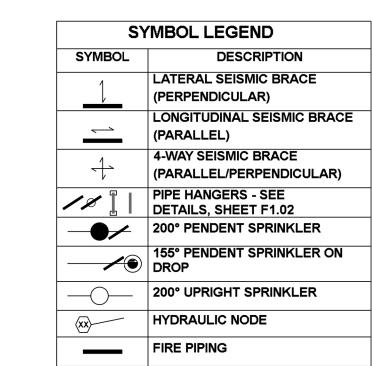
TAG (TYP)

Sprinkler Legend

SymbolManufacturerSINQuantityK-FactorTypeSizeResponseFinishTemperatureTycoTy3131395.6 Upright½ QuickBrass200°F

Total = 85

Hydraulic Information						
Remote Area 1						
OCCUPANCY CLASSIFICATION	Light Hazard					
DENSITY (gpm/ft²)	0.10 for 1500.00ft ² (Actual 1044.30ft ²)					
QUICK RESPONSE REDUCTION	15'-9 Ceiling (31.4%) 1029.37ft ²					
TOTAL HOSE STREAMS	100.00					
TOTAL HEADS FLOWING	8					
K-FACTOR	5.6					
TOTAL WATER REQUIRED	224.39					
TOTAL PRESSURE REQUIRED	28.433					
SAFETY MARGIN (psi)	+24.730 (46.5%)					
130ft ² Covera	ge Per Sprinkler					



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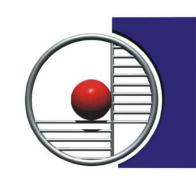
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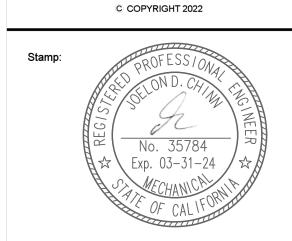
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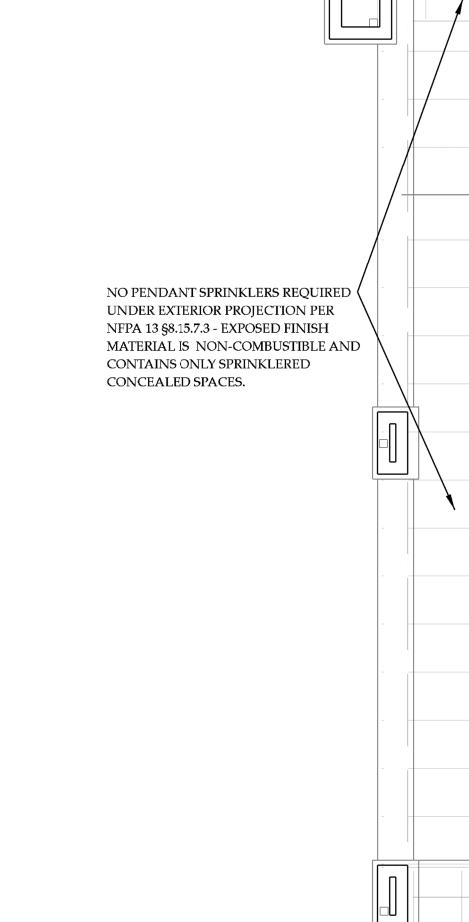
FIRE SPRINKLER PIPING PLAN & RCP

MS FIRI STATE OF CALIFORNIA C-16 LICENSE No. 986234 **3644 SOUTH BAGLEY AVENUE**

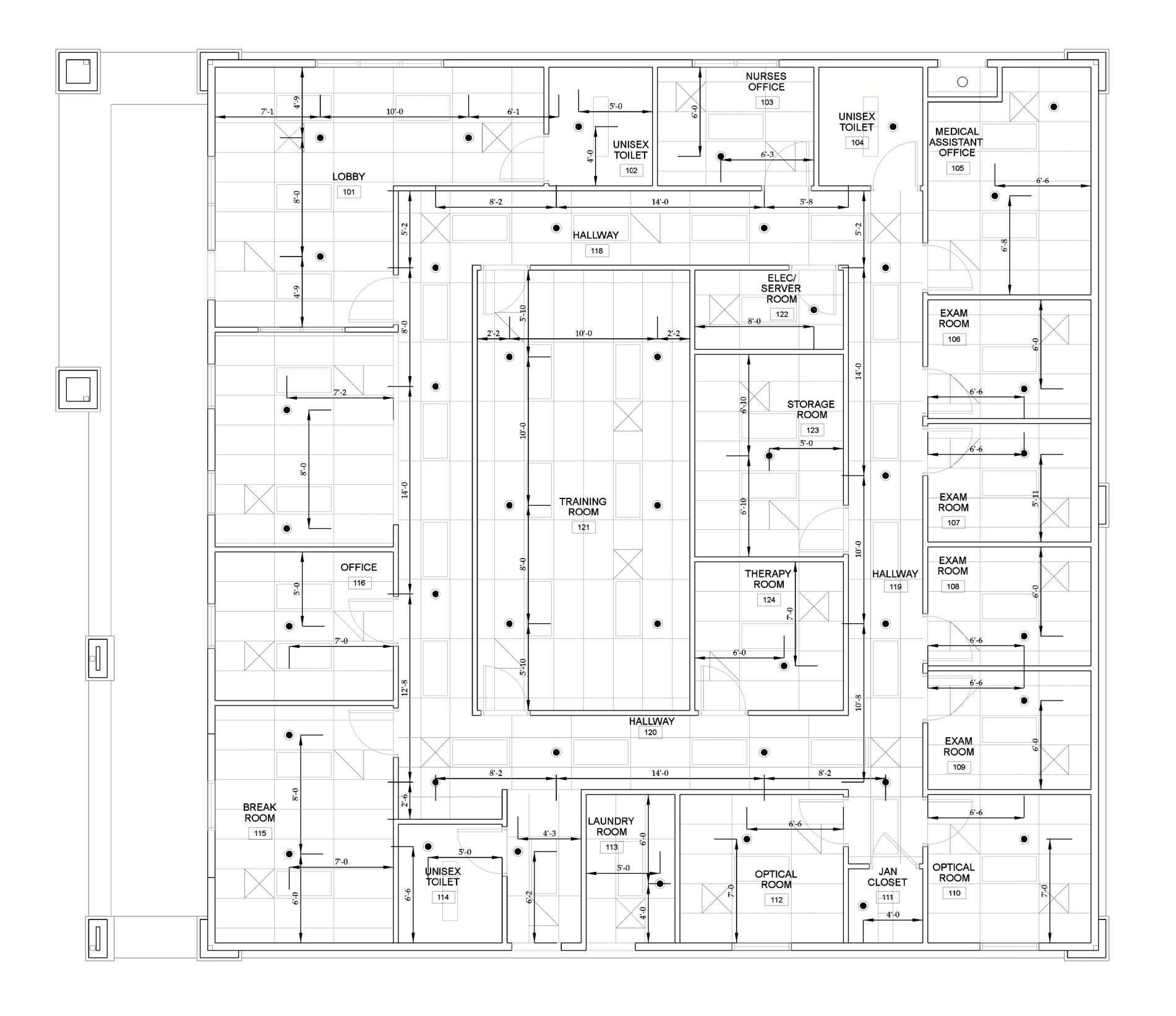
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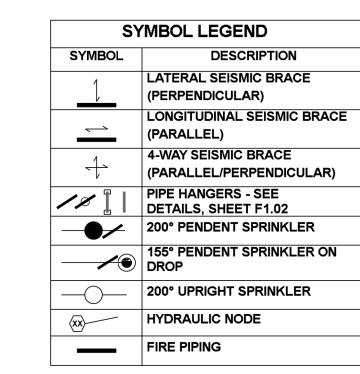


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Sprinkler Legend											
Symbol	Manufacturer	SIN	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature		
	Тусо	TY3231	44	5.6	Pendent	1/2	Quick	Chrome	155°F		
			Total = 44								



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DATE: 05/11/2023

Owner.



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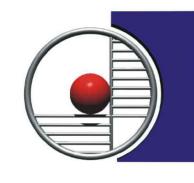
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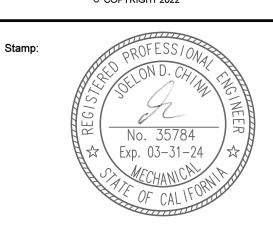
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