

ROOSEVELT ELEMENTARY SCHOOL MODERNIZATION

2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

PROJECT DATA

LEGEND

SYMBOLS	ABBREVIATIONS
	GRID LINES
	GATE SYMBOL
	DOOR SYMBOL
	WINDOW SYMBOL
	REVISION NUMBER
	WORK POINT
	MATCH PORTION
	NORTH ARROW
	BUILDING SECTION
	WALL SECTION
	DETAIL NUMBER
	OFFICE
	KEYNOTE
	SIGNS
	KITCHEN EQUIPMENT
	ADA CLEARANCE

GENERAL NOTES

NOTHING IN THE DRAWINGS AND/OR THE SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT AN INSTALLATION THAT COULD BE IN VIOLATION OF THE APPLICABLE CODES, ORDINANCES, REGULATIONS, RESTRICTIONS, ETC. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN FULL ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS.	
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY. DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE DRAWINGS SHALL CAUSE THE CONTRACTOR TO NOTIFY THE ARCHITECT PRIOR TO MAKING ANY CHANGES IN THE WORK.	
THE DRAWINGS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED HEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT/OWNER AND NO PART THEREOF SHALL BE COPIED OR DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THESE DOCUMENTS HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THESE DRAWINGS CONSTITUTES CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.	
WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.	
AMPLIFICATION, ADDITION, OR OMISSION OF ANY WORD, LETTER, FIGURE, PUNCTUATION MARK, ETC., SHALL IN NO WAY CHANGE OR ALTER THE TRUE INTENT, SPIRIT, OR MEANING OF THE DRAWINGS. THE CONTRACTOR SHALL STUDY AND COMPARE ALL DRAWINGS AND SHALL REPORT ANY ERRORS, OMISSIONS, OR INCONSISTENCIES TO THE ARCHITECT BEFORE COMMENCING WORK IN THAT AREA.	
ALL WORK SHALL BE IN CONFORMANCE WITH THE CURRENTLY ADOPTED EDITION OF THE:	
PART 1 2019 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R.	
PART 2 2019 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R.	
PART 3 2019 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R.	
PART 4 2019 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R.	
PART 5 2019 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.	
PART 6 2019 CALIFORNIA FIRE CODE, TITLE 24 C.C.R.	
PART 7 2019 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.	
PART 8 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN CODE), TITLE 24 C.C.R.	
PART 9 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN CODE), TITLE 24 C.C.R.	
PART 10 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN CODE), TITLE 24 C.C.R.	
PART 11 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN CODE), TITLE 24 C.C.R.	
PART 12 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN CODE), TITLE 24 C.C.R.	
PARTIAL LIST OF APPLICABLE STANDARDS:	
NFPA 10 STANDARD FOR PORTABLE FIRE EXTINGUISHERS	2018 EDITION
NFPA 13 AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14 STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17A WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20 STATIONARY PUMPS	2017 EDITION
NFPA 24 PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	2019 EDITION
NFPA 72 NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED)	2016 EDITION
NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2019 EDITION
NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2018 EDITION
REFERENCE CODE SECTION FOR NFPA STANDARDS-CBC (SFM) 3504.1	
IF CONFLICTS BETWEEN VARIOUS ELEMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL) OF THE WORK OF THE DRAWINGS ARE DISCOVERED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.	
THESE PROPOSED PLANS WERE BASED ON PLANS BY OTHERS, FURNISHED BY THE OWNER, INDICATING WORK OF PREVIOUS CONTRACTS. THE EXISTING PLANS WILL BE MADE AVAILABLE FOR THE CONTRACTOR'S REVIEW UPON REQUEST. THE OWNER, THE ARCHITECT AND THE ENGINEERS SHALL ASSUME NO RESPONSIBILITY FOR THE EXISTING CONDITIONS AND MEASUREMENTS INDICATED ON THESE PROPOSED PLANS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MEASUREMENTS AND CONDITIONS NECESSARY TO PROVIDE COMPLETE WORK AS INDICATED BY THE INTENT OF THESE PLANS PRIOR TO PROCEEDING WITH WORK OF THIS CONTRACT.	
EXISTING DIMENSIONS INDICATED ON THESE PROPOSED DRAWINGS HAVE BEEN PROVIDED FROM INFORMATION OBTAINED FROM THE DISTRICT. THE CONTRACTOR SHALL USE WHAT MEANS NECESSARY TO VERIFY THE DIMENSIONS IN THE AREAS OF DESIGNATED WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO STARTING WORK IN THE AREA OF QUESTION.	
ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).	
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-336, 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.	
A "CLASS 2" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.	
GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LEGAL ORDINANCES.	
THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATIONS, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITION SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERE THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD TYPE A) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT.	
CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND ENGINEER WITH THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT.	

SCOPE OF WORK

BASE BID: ALL LABOR, MATERIALS, AND EQUIPMENT AS REQUIRED TO DEMO EXISTING ROOFING FOR THE WORK INDICATED, CHILLER SYSTEM & YARD. HAZARDOUS MATERIAL REMOVAL, CEILING, UNIT VENTILATORS AND MISC. DEMOLITION AT (E) RESTROOMS AS INDICATED. WORK SHALL INCLUDE BUT NOT NECESSARILY LIMITED TO: PROVIDE AND INSTALL ALL HVAC UPGRADES AT BUILDINGS A, B, C, D & E. ACCESSIBLE PATH OF TRAVEL, ADA UPGRADES AT RESTROOMS, FRAMING, DOORS, FRAMES, HARDWARE, AND INTERIOR FINISHES, ROOFING, PLUMBING, ELECTRICAL, FIRE ALARM, LIGHTING AND POWER AS INDICATED BY PLANS AND/OR SPECIFICATIONS CONTAINED HEREIN.	
HAZARDOUS MATERIAL REMOVAL NOTES	
1. THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY BOTH THE OWNER AND THE ARCHITECT IF ASBESTOS OR OTHER HAZARDOUS CONTAMINATING MATERIALS ARE UNCOVERED IN ANY LOCATION OTHER THAN INDICATED IN THESE PLANS OR SPECIFICATIONS WHERE WORK OF THIS CONTRACT IS SCHEDULED.	
2. COST OF HAZARDOUS MATERIAL REMOVAL/ASBESTOS ABATEMENT SHALL BE SORE BY THE GENERAL CONTRACTOR, AS PART OF THIS CONTRACT. ASBESTOS AND HAZARDOUS MATERIAL TESTING WORK AND SERVICES BY THE CERTIFIED ASBESTOS CONSULTANT ARE NOT A PART OF THIS CONTRACT. THE OWNER WILL EMPLOY THE CERTIFIED ASBESTOS ABATEMENT CONSULTANT AND PAY ALL COST OF TESTING.	
3. THE COST OF AND SUBSEQUENT REMOVAL OF OTHER BUILDING MATERIALS CONTAINING HAZARDOUS MATERIALS SHALL BE A PART OF THIS CONTRACT. CONTRACTOR SHALL BE REQUIRED TO CONTRACT THE REMOVAL OF ANY AND ALL HAZARDOUS MATERIALS PER REQUIREMENTS AND REGULATIONS PER O.S.H.A., A.H.E.R.A. AND N.E.S.H.A.P. AND ANY OR ALL OTHER APPLICABLE FEDERAL AND STATE REGULATIONS.	
4. IT SHALL BE CLEARLY UNDERSTOOD BY THE CONTRACTOR AND THE OWNER THAT THE ARCHITECT IS NOT RESPONSIBLE IN ANY WAY WHATSOEVER FOR THE DETECTION OF THE PRESENCE OF ANY HAZARDOUS MATERIALS OR THE ABATEMENT OR REMOVAL THERE OF.	
5. AFTER THE CERTIFIED ASBESTOS CONSULTANT HAS CERTIFIED THE ENVIRONMENT IS FREE OF ASBESTOS FIBERS (AIR SAMPLES AND THE LABORATORY TESTS), THE GENERAL CONTRACTOR SHALL COMPLETE THE WORK OF THIS CONTRACT.	
6. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO KEEP THE OWNER AND THE ARCHITECT INFORMED AS OF WHEN THE ASBESTOS ABATEMENT AND HAZARDOUS MATERIALS. CONTRACTOR WILL BE REQUIRED TO COMMENCE THEIR WORK.	
7. IT SHALL BE UNDERSTOOD THAT THE OWNER, THE ARCHITECT AND THE ENGINEER MAKE NO IMPLIED OR EXPRESSED WARRANTY OR GUARANTEE THAT THE LIST OF PRODUCTS/ FINISHES CONTAINING HAZARDOUS BUILDING MATERIALS IS COMPREHENSIVE.	
8. SEE SPECIFICATION SECTION 02 62 00 HAZARDOUS MATERIALS ABATEMENT AND REMOVAL FOR A LIST OF IDENTIFIED MATERIALS REQUIRING ABATEMENT.	
SITE DATA	
SEISMIC DESIGN LOADS:	
SEISMIC IMPORTANCE FACTOR (I _s)	1.25
RISK CATEGORY	II
S _s	0.94g
S ₁	0.341g
SEISMIC SITE CLASS	D
S ₂	0.752g
S ₃	NULL
SEISMIC DESIGN CATEGORY	D
ULTIMATE DESIGN WIND SPEED	94
WIND EXPOSURE	C
TOPOGRAPHIC FACTOR	1.0
CLIMATE ZONE	13
FLOOD HAZARD	DESIGNATION: ZONE X, (FIRM) PANEL 2282, SEPTEMBER 26, 2008

SHEET INDEX

TITLE	TITLE SHEET, SHEET INDEX & VICINITY MAP
CIVIL	GRADING PLAN
ARCHITECTURAL	OVERALL SITE PLAN PARTIAL DEMO SITE PLAN & PARTIAL SITE PLAN FLOOR PLAN BUILDING 'A', PARTIAL FLOOR PLAN & DEMO FLOOR PLAN FLOOR PLAN BUILDING 'B', PARTIAL FLOOR PLAN & DEMO FLOOR PLAN FLOOR PLAN BUILDING 'C', PARTIAL FLOOR PLAN & DEMO FLOOR PLAN FLOOR PLAN BUILDING 'D', PARTIAL FLOOR PLAN & DEMO FLOOR PLAN FLOOR PLAN BUILDING 'E' & DEMO FLOOR PLAN BUILDING 'E' REFLECTED CEILING PLAN BUILDING 'A' & PARTIAL CEILING JOIST PLAN REFLECTED CEILING PLANS BUILDINGS 'B', 'C' & 'D' REFLECTED CEILING PLAN BUILDING 'E' & PARTIAL CEILING JOIST PLAN DOOR SCHEDULE, ROOM FINISH SCHEDULE & DETAILS PARTIAL ROOF PLAN BUILDING 'B', 'C' & 'D' PARTIAL ROOF PLAN BUILDING 'E' SECTIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS DETAILS DETAILS
STRUCTURAL	GENERAL NOTES PARTIAL ROOF FRAMING PLANS PARTIAL ROOF FRAMING PLANS DETAILS
MECHANICAL	MECHANICAL SITE PLAN MECHANICAL DETAILS MECHANICAL DETAILS MECHANICAL DETAILS MECHANICAL PLAN BUILDING 'A' MECHANICAL PLAN BUILDING 'B' AND BUILDING 'C' MECHANICAL PLAN BUILDING 'D' AND BUILDING 'E' MECHANICAL PARTIAL ROOF BUILDING 'B', 'C' & 'D' MECHANICAL PARTIAL ROOF BUILDING 'E' BUILDING 'B' TITLE-24 BUILDING 'B' TITLE-24 BUILDING 'C' TITLE-24 BUILDING 'C' TITLE-24 BUILDING 'D' TITLE-24 BUILDING 'D' TITLE-24 BUILDING 'E' TITLE-24 BUILDING 'E' TITLE-24
PLUMBING	PLUMBING SITE PLAN PLUMBING PLAN & DEMO PLAN - BUILDING 'A' PLUMBING PLAN BUILDINGS 'B' & 'C' PLUMBING PLAN & DEMO PLAN - BUILDING 'D' PLUMBING PLAN & DEMO PLAN - BUILDING 'E' BRACING DETAILS
ELECTRICAL	ELECT. SITE PLAN, SYMBOL LEGEND, DETAILS AND NOTES ELECT. SINGLE LINE DIAGRAM, DETAILS AND SCHEDULES BLDGS A & E LIGHTING FLOOR PLANS, DETAILS AND NOTES BLDGS B, C & D LIGHTING FLOOR PLANS AND NOTES BLDGS A, B, C, D & E DAVIT LIGHTING FLOOR PLANS BLDGS A & E POWER & DEMO FLOOR PLANS BLDGS B, C & D POWER FLOOR PLANS F.A. SITE PLAN, SYMBOL LEGEND, DETAILS, NOTES AND SCHEDULES BLDGS A & E FIRE ALARM FLOOR PLANS AND NOTES BLDGS B, C & D FIRE ALARM FLOOR PLANS FIRE ALARM SINGLE LINE DIAGRAM PANEL SCHEDULES, FIXTURE SCHEDULE AND VOLTAGE DROP CALC'S NRCC REPORT TITLE 24 REPORT BUILDING 'A' TITLE 24 REPORT BUILDING 'B' TITLE 24 REPORT BUILDING 'C' TITLE 24 REPORT BUILDING 'D' TITLE 24 REPORT BUILDING 'E'

VICINITY MAP

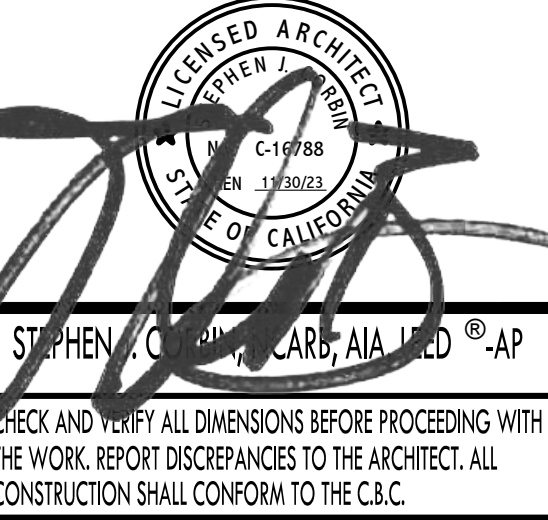


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APP: 03-122920 INC:
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DATE: 07/05/2023
PTN: 63321-389 FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
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2324 VERDE STREET
FOR
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BAKERSFIELD, KERN COUNTY, CALIFORNIA



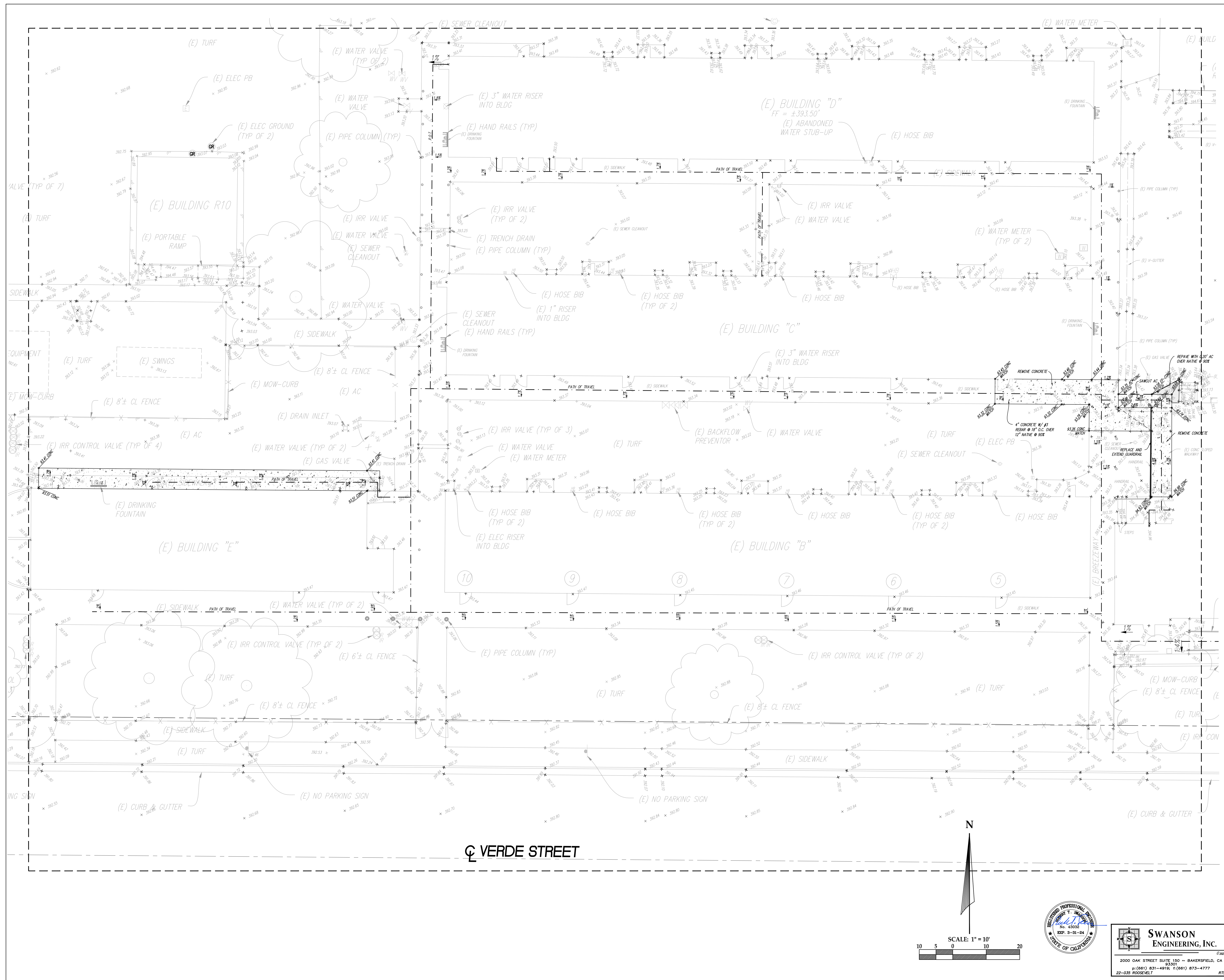
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TITLE SHEET, SHEET INDEX & VICINITY MAP

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO. 1317
DRAWN: Ed, FS
CHECKED: BCW
DATE: 4/24/23
1 OF 67 SHEETS



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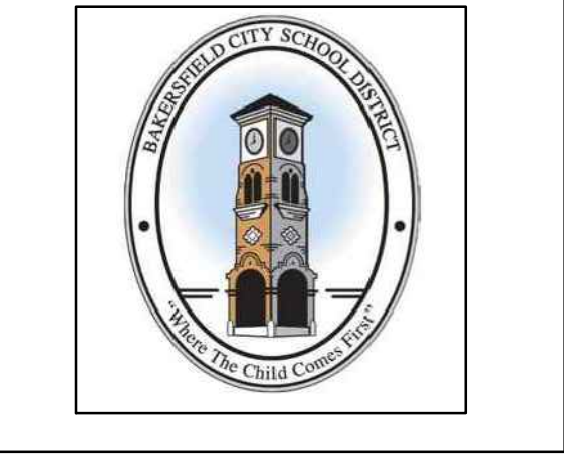
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2324 VERDE STREET
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BAKERSFIELD, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
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STEPHEN T. SWANSON, ARCHITECT, LEED®-AP
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.



GRADING PLAN

MARK	DATE	REVISIONS
△		
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JOB NO.
DRAWN:
CHECKED:
DATE:
C
2
OF SHEETS



SWANSON
ENGINEERING, INC.
2000 OAK STREET SUITE 150 ~ BAKERSFIELD, CA 93301
p: (661) 831-4919; f: (661) 873-4777
22-035 ROOSEVELT RTS

PATH OF TRAVEL:

PATH OF TRAVEL (POT) AS INDICATED IS A COMMON BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/4" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. POT IS A MINIMUM OF 48" WIDE. THE SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. PAVING SPACES (11B-405.5.3) AT LEAST 60"x60" SHALL BE LOCATED NOT MORE THAN 200' APART. PARTS OF POT WITH CONTIGUOUS GRADIENTS SHALL HAVE 60" LEVEL AREAS AT INTERVALS OF 400' MAXIMUM (11B-405.7) SLOPE SHALL NOT EXCEED 2% CROSS-SLOPE AND 5% RUNNING SLOPE IN THE DIRECTION OF TRAVEL (11B-401.1) SLOPES GREATER THAN 5% TO A MAXIMUM OF 8.33% SHALL BE CONSIDERED AS A RAMP (11B-405). THERE SHALL BE NO DROP-OFF OVER 4" ALONG THE EDGE OF WALK OR LANDING. POT SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS AND OBJECTS PROTRUDING GREATER THAN 4" FROM A WALL, BETWEEN 27" TO 80" ABOVE FINISHED GRADE. ARCHITECT SHALL VERIFY THAT NO BARRIERS EXIST IN THE PATH OF TRAVEL.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

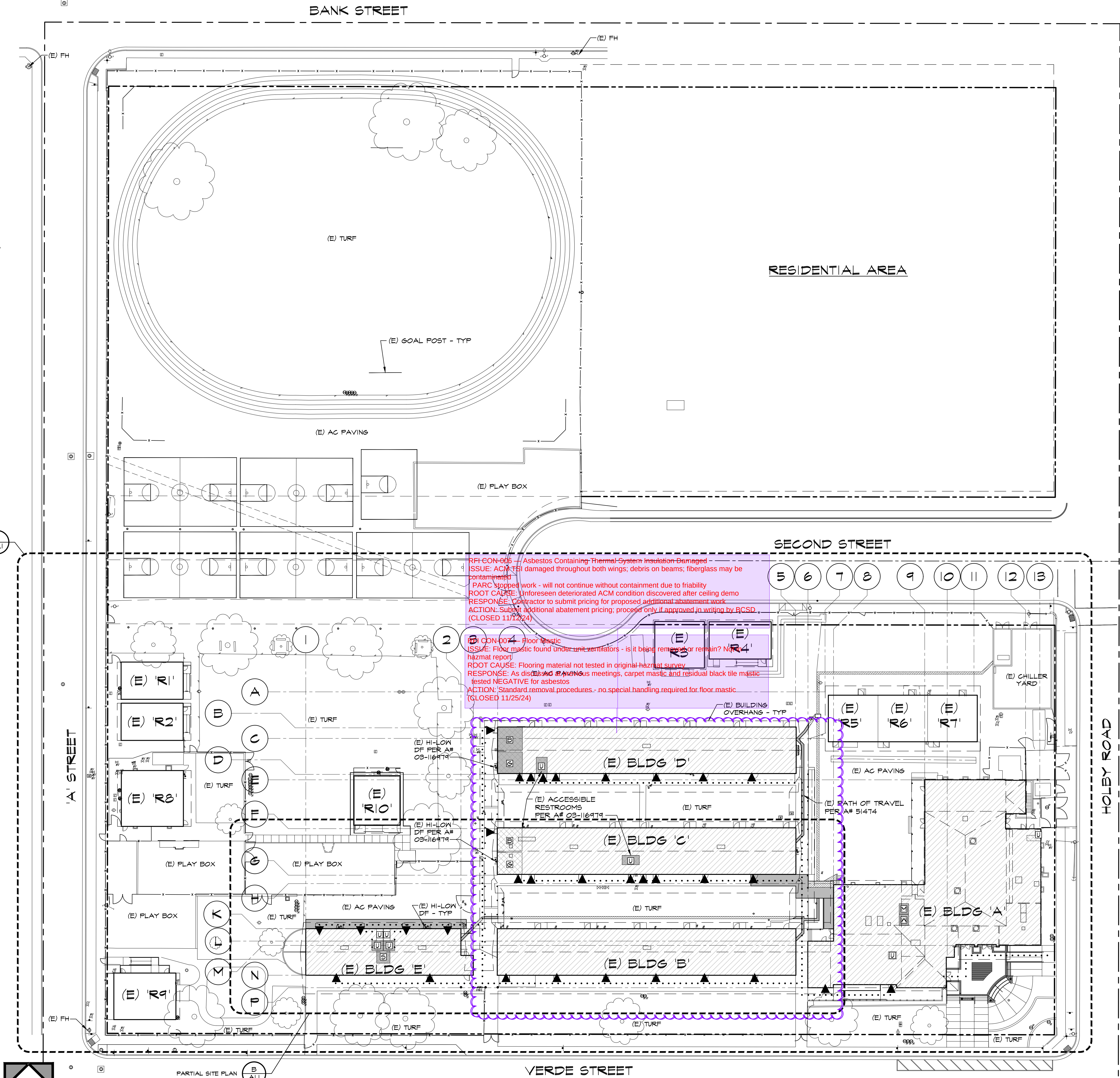
DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

SITE PLAN GENERAL NOTES:

- SEE ELECTRICAL SITE PLANS FOR ADDITIONAL SITE RELATED WORK. CONTRACTOR SHALL COORDINATE ALL WORK AS REQ'D TO ENSURE A COMPLETE & FINISHED PROJECT.
- CONTRACTOR TO TAKE ALL NECESSARY AND REQUIRED MEASURES TO PROTECT (E) IRRIGATION & TURF AREAS WITHIN THE JOB SITE, AND SHALL BE RESPONSIBLE TO REPLACE ANY OR ALL BROKEN IRRIGATION SYSTEMS, RESEED TURF AS REQUIRED.
- CONTRACTOR TO TYP ALL (E) UTILITY BOXES, (E) VALVES, ETC. IN AREA OF SCHEDULED WORK, DEMO, REMOVE, RELOCATE AND/OR MODIFY AS NECESSARY TO COMPLETE THE WORK INDICATED. NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND PLANS.
- CONTRACTOR SHALL PATCH & MATCH ANY ADJACENT SURFACES DAMAGED AS A RESULT OF PERFORMING THE WORK REQUIRED.

CAMPUS DIRECTORY			
BLDG ID#	BUILDING DESCRIPTION	DSA A#	CERTIFICATION STATUS, DATE
(E) BLDG 'A'	ADMINISTRATION / LIBRARY	#312	-
		#2498	-
		#11662	-
		#51474	YES: 8/5/1993
		#45050	-
(E) BLDG 'B'	CLASSROOM BUILDING	#03-116979	YES: 6/9/2022
		#11662	-
		#51474	YES: 8/5/1993
		#11662	-
		#51474	YES: 8/5/1993
(E) BLDG 'C'	CLASSROOM BUILDING	#11662	-
		#51474	YES: 8/5/1993
		#03-116979	YES: 6/9/2022
		#11662	-
		#51474	YES: 8/5/1993
(E) BLDG 'D'	CLASSROOM BUILDING	#11662	-
		#51474	YES: 8/5/1993
		#03-116979	YES: 6/9/2022
		#11662	-
		#51474	YES: 8/5/1993
(E) BLDG 'E'	KINDERGARTEN	#11662	-
		#51474	YES: 8/5/1993
		-	-
		-	-
		-	-
(E) R1'	SPECIAL ED / PRE-K	-	-
(E) R2'	TK	-	-
(E) R3'	CLASSROOM	#11766	-
(E) R4'	CLASSROOM	#679	-
(E) R5'	CLASSROOM	#11662	-
(E) R6'	CLASSROOM	#11766	-
(E) R7'	CLASSROOM	#11766	-
(E) R8'	PRE-K	#03-110694	YES: 7/2/2008
(E) R9'	PTC	#6168	NO
(E) R10'	CLASSROOM	#03-116979	YES: 6/9/2022

BUILDING CODE ANALYSIS						
BUILDING ID#	BLDG OCC. TYPE	TYPE OF CONST	BASIC ALLOWABLE AREA	ACTUAL HT STRY/FT	ALLOWABLE HT STORIES/ HT ABV GRADE	ACTUAL AREA TOTAL
(E) BLDG 'A'	A-2 / E	V-B	15,500	1 STRY/125'-0"	2 STRY/140'-0"	12,334 SF
(E) BLDG 'B'	E	V-B	9,500	1 STRY/116'-6"	1 STRY/140'-0"	5,174 SF
(E) BLDG 'C'	E	V-B	9,500	1 STRY/116'-6"	1 STRY/140'-0"	5,174 SF
(E) BLDG 'D'	E	V-B	9,500	1 STRY/116'-6"	1 STRY/140'-0"	5,174 SF
(E) BLDG 'E'	E	V-B	9,500	1 STRY/116'-6"	1 STRY/140'-0"	5,102 SF



LEGEND:

- NO WORK SCHEDULE FOR THIS BUILDING
- AREA OF SCHEDULED WORK PER THIS APPLICATION
- CONCRETE WALK
- (E) ACCESSIBLE RESTROOM
- ACCESSIBLE RESTROOM PER THIS APPLICATION
- PATCH & MATCH TURF AS REQ'D
- PATCH & MATCH AC PAVING AS REQ'D
- PATH OF TRAVEL
- PROPERTY LINE
- (E) CHAIN LINK FENCE

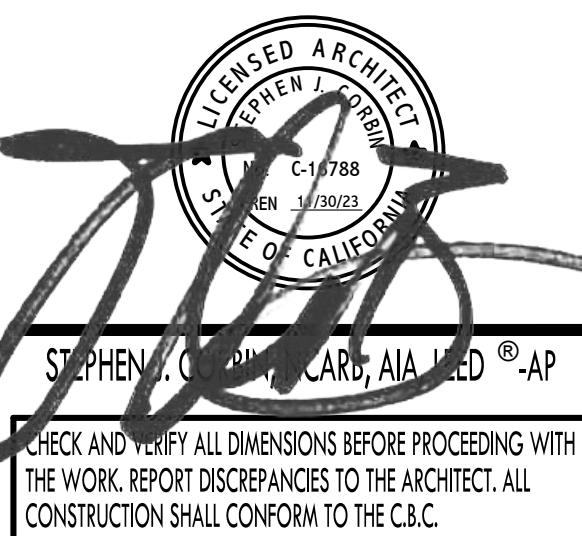
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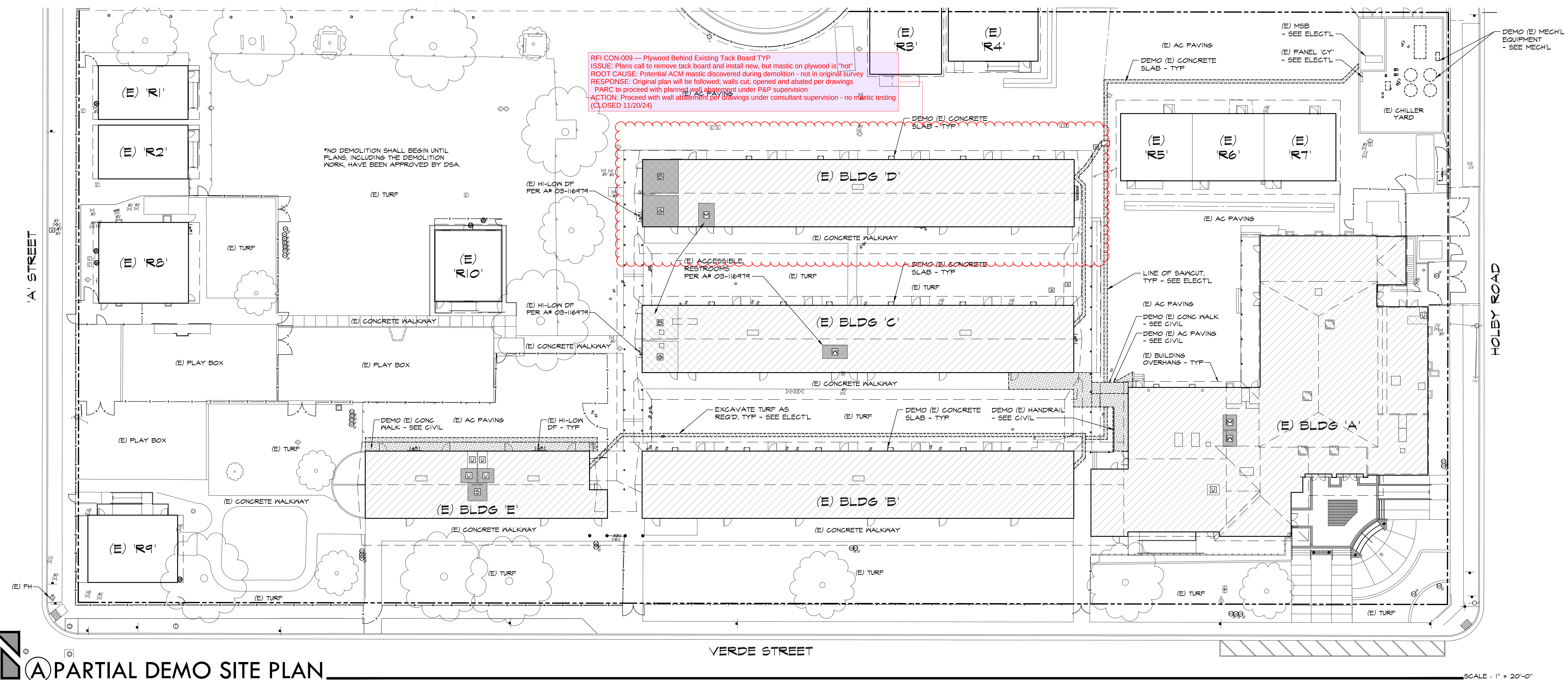
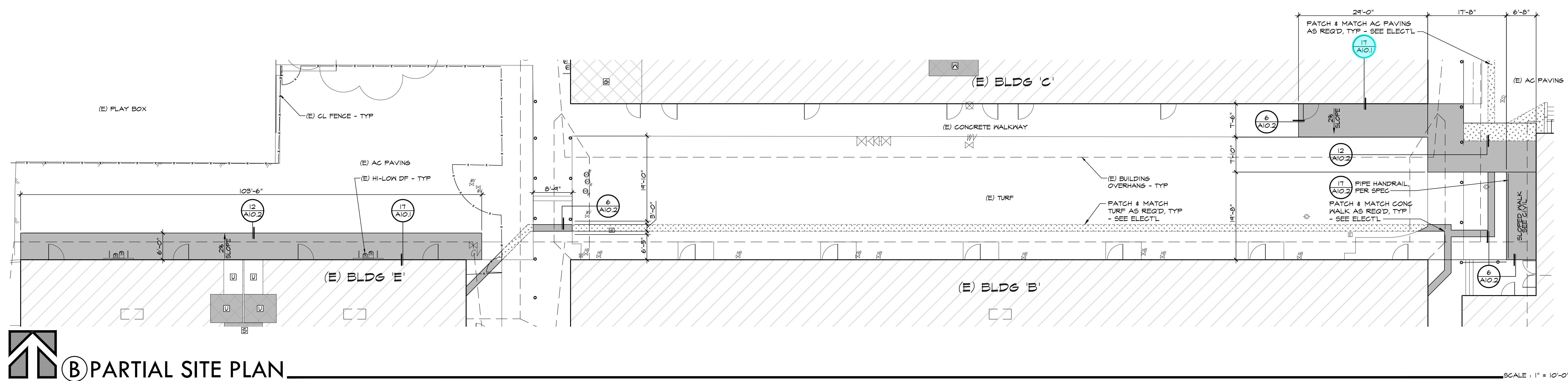
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OVERALL SITE PLAN

MARK	DATE	REVISIONS
△		
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JOB NO.
1317
DRAWN:
ED, FS
CHECKED:
BCW
DATE:
4/24/23
1.0
3 OF 67 SHEETS

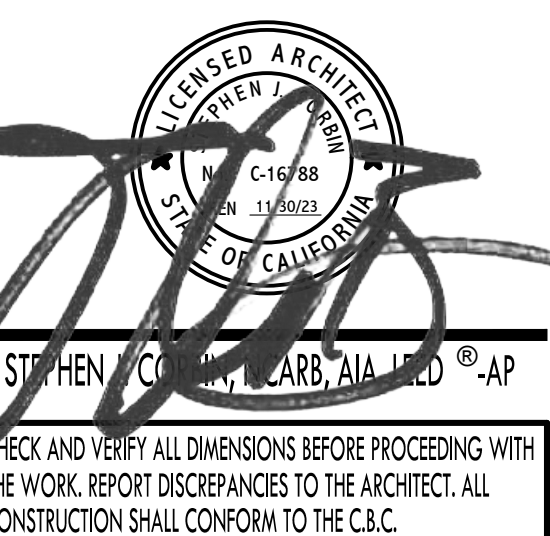


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PARTIAL DEMO SITE PLAN & PARTIAL SITE PLAN

MARK	DATE	REVISIONS
1		
2		
3		

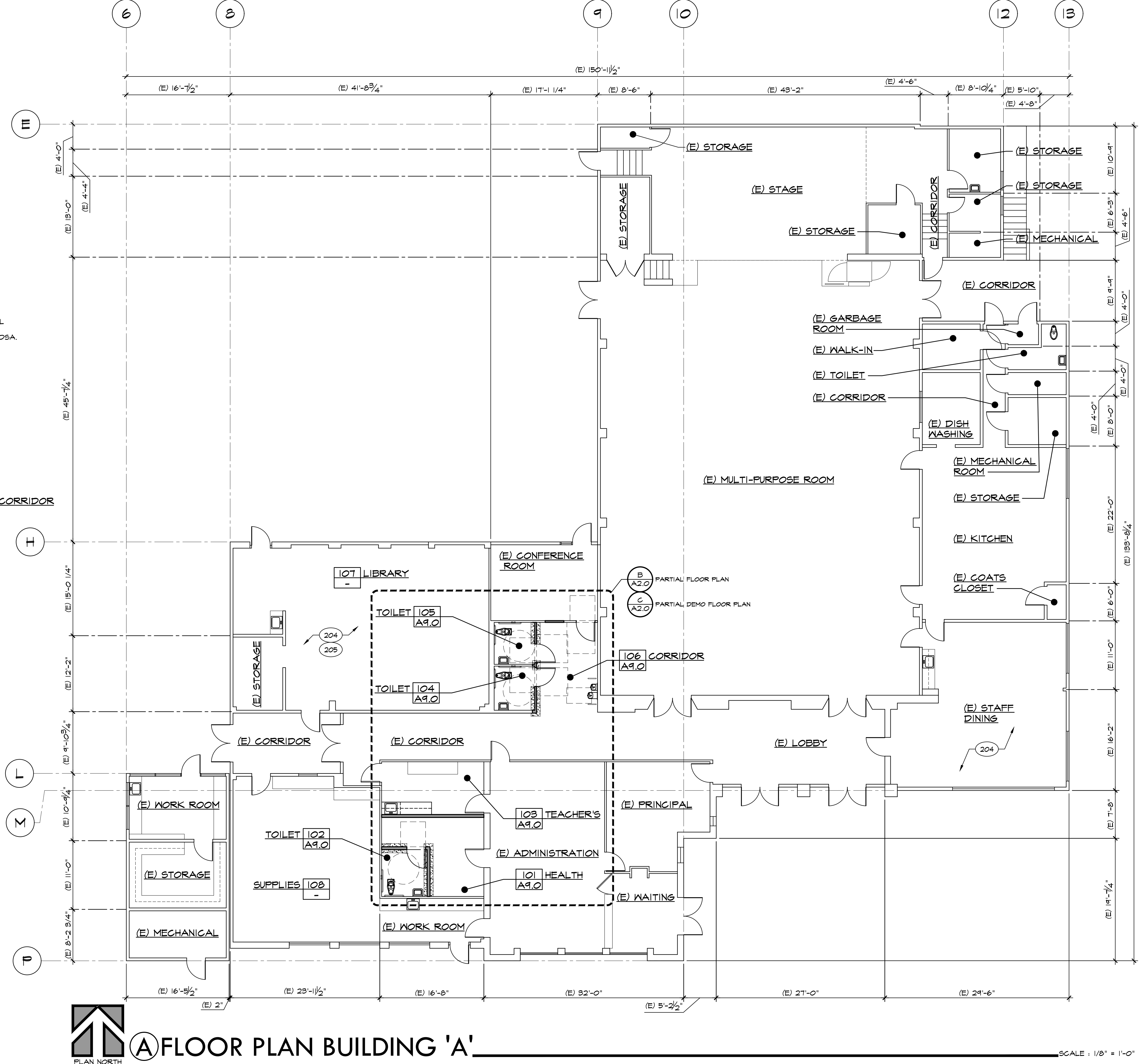
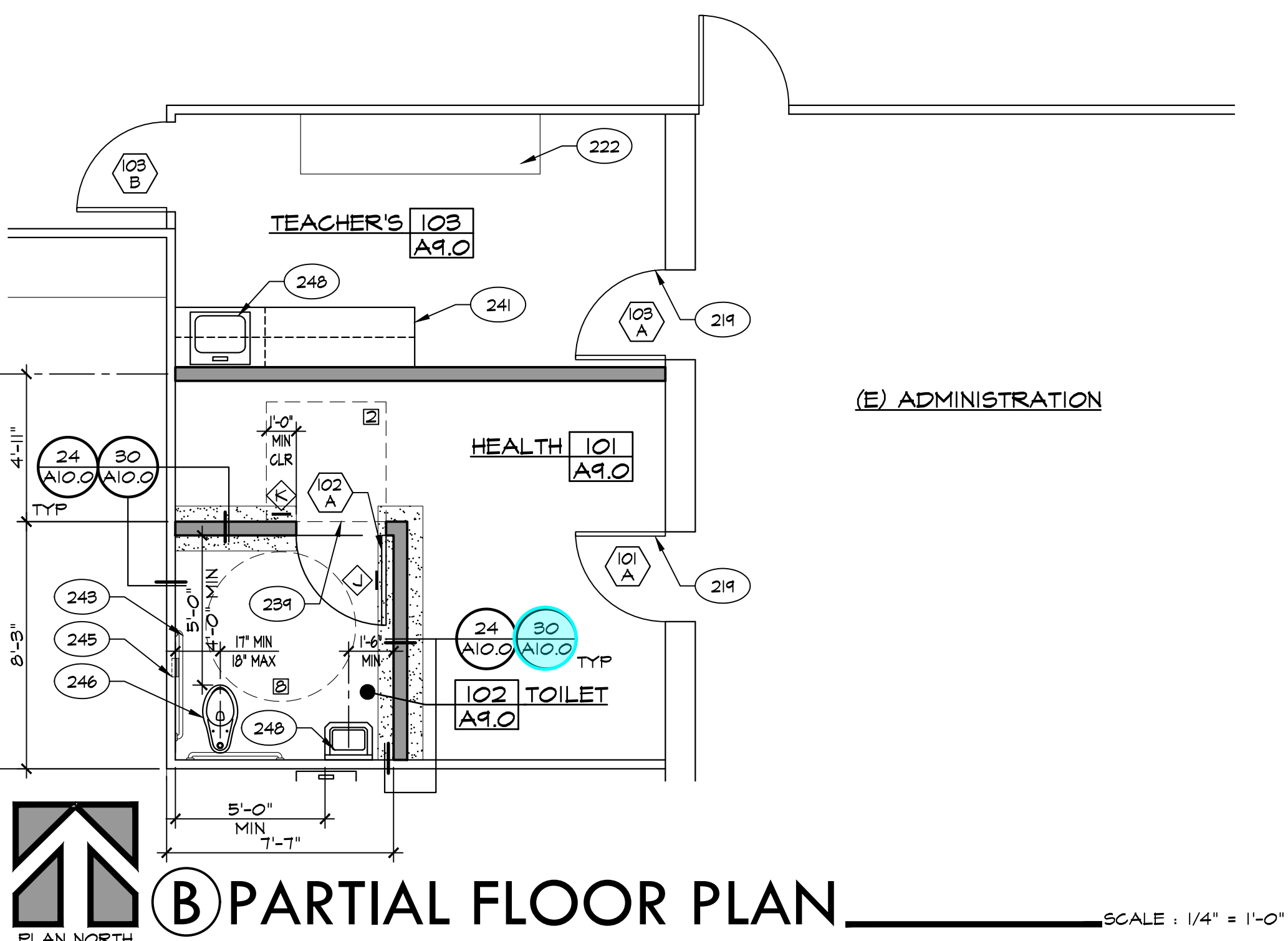
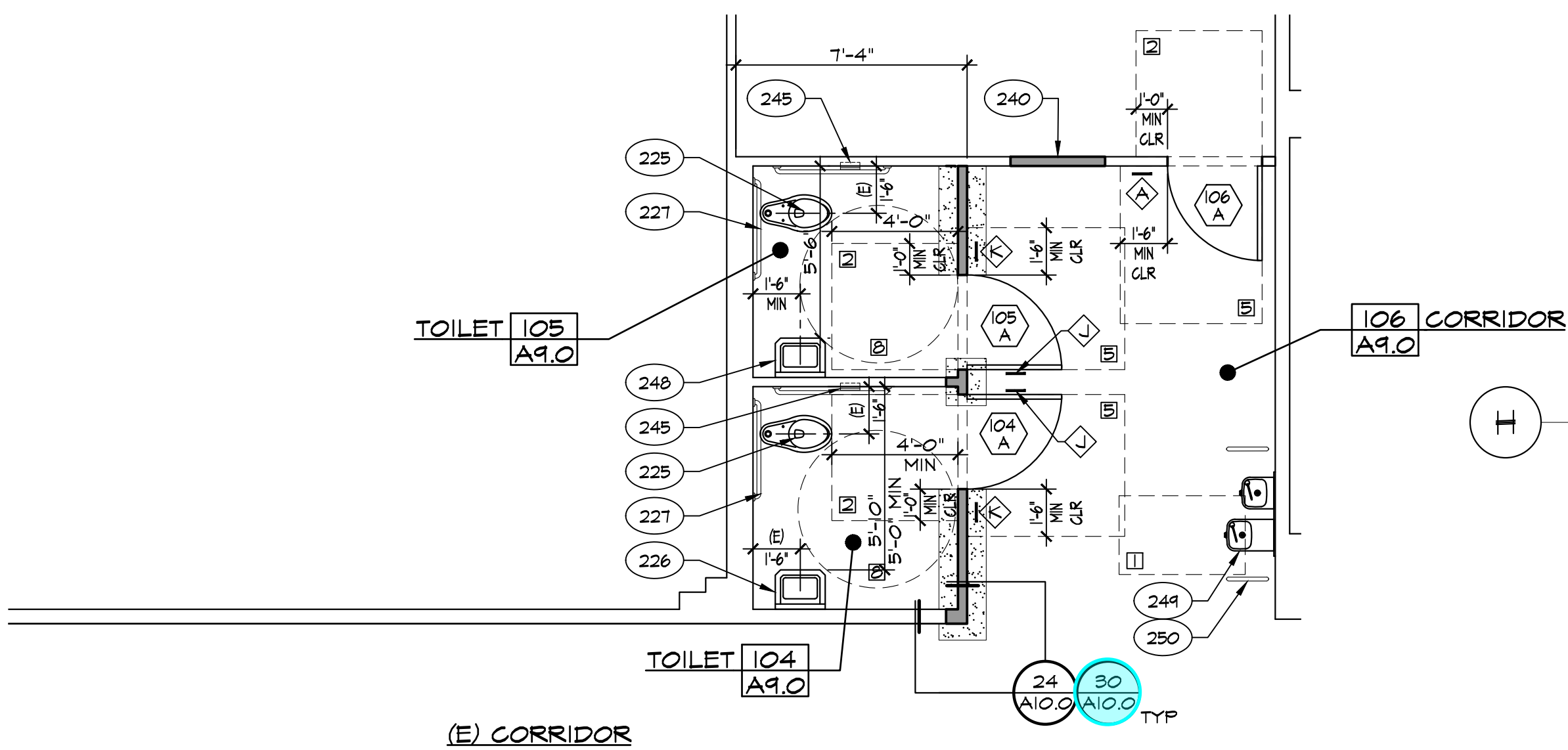
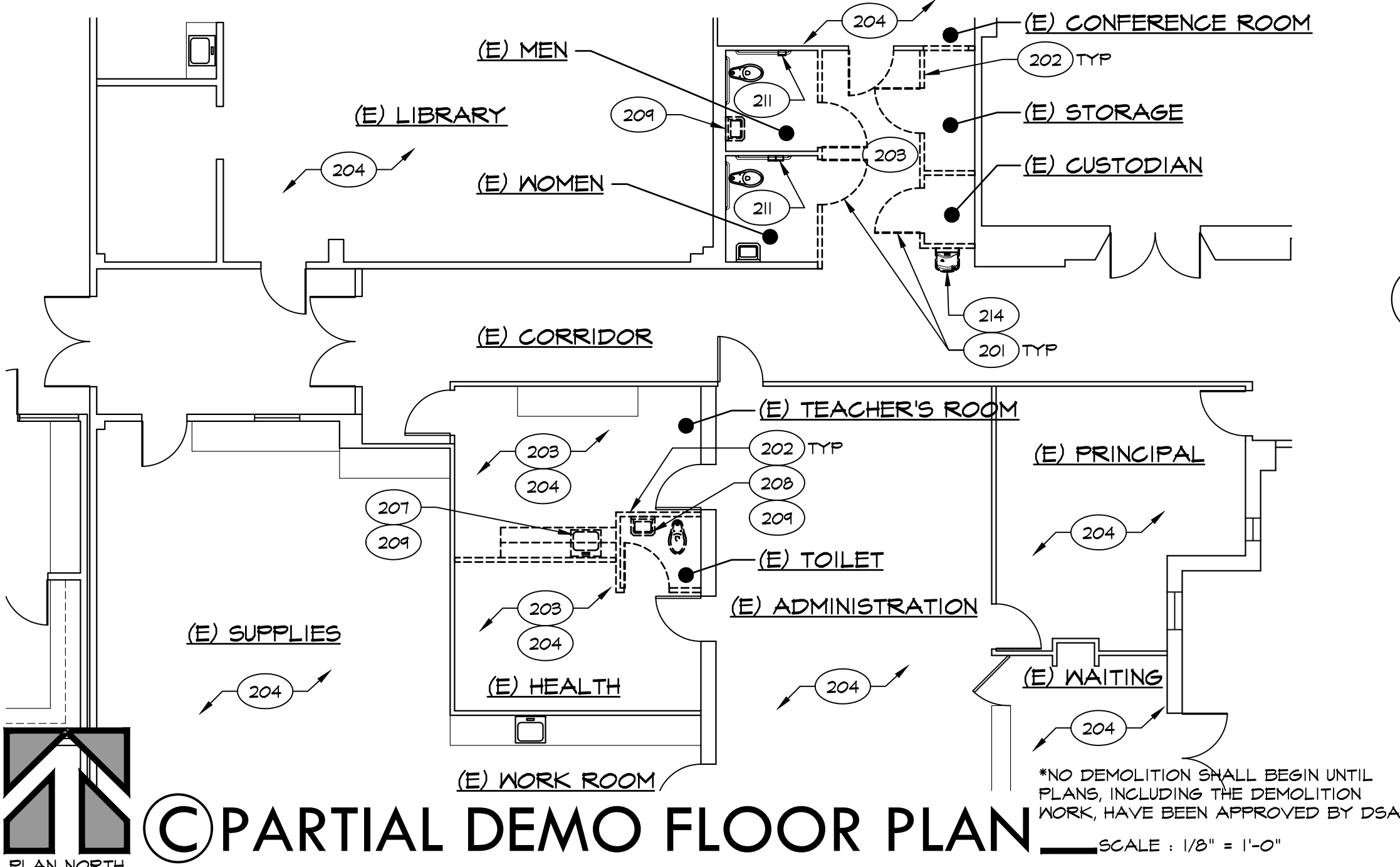
DB NO.	
1317	
DRAWN:	
ED, FS	
CHECKED:	
BCW	
DATE:	
4/24/23	

KEYNOTES			
201 DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD	214 DEMO (E) DRINKING FOUNTAIN	227 (E) GRAB BAR TO REMAIN	240 WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D
202 DEMO (E) 2x STUD WALL, FINISH & CONC CURB WHERE OCCURS	215 DEMO (E) WALL FINISH	228 (E) SOLID TOILET PARTITIONS TO REMAIN	241 FLAM BASE CABS AND / OR UPPER CABS
203 DEMO (E) FLOOR FINISH	216 DEMO (E) PIPE COVER, SUPPLY / RETURN WATER LINES & CAP BELOW GRADE	229 (E) PAPER TOWEL DISPENSER TO REMAIN	242 SOLID PLASTIC PARTITIONS
204 DEMO (E) T-BAR CEILING SYSTEM, LIGHTING AND BATT INSULATION	217 DEMO (E) UNIT VENTILATOR	230 (E) TOILET PAPER DISPENSER TO REMAIN	243 GRAB BAR - 48" AT SIDE AND 36" AT BACK
205 DEMO (E) 1X STRIPPING AND ACOUSTICAL TILE	218 DEMO (E) LOUVER	231 (E) FLOOR DRAIN TO REMAIN	244 WINDOW PER SCHEDULE
206 REMOVE & RELOCATE (E) RECESSED AIR FILTER	219 (E) DOOR TO REMAIN	232 (E) 1/2" STD PIPE RAIL TO REMAIN	245 RECESSED PAPER TOWEL / TOILET PAPER DISPENSER PER SPEC
207 DEMO (E) CABINETS / SHELVING	220 (E) THRESHOLD TO REMAIN	233 RELOCATE (E) LAVATORY / SINK	246 TOILET AND REQUIREMENTS - SEE PLUMBING PLANS
208 DEMO (E) TOILET / URINAL	221 (E) WINDOW TO REMAIN	234 RELOCATE (E) TOILET PAPER DISPENSER	247 URINAL AND REQUIREMENTS - SEE PLUMBING PLANS
209 DEMO (E) LAVATORY / SINK	222 (E) CABINETS / SHELVING TO REMAIN	235 RELOCATED (E) LAVATORY / SINK	248 LAVATORY / SINK AND REQUIREMENTS - SEE PLUMBING PLANS
210 DEMO (E) SOLID TOILET PARTITIONS	223 (E) FURRED WALL TO REMAIN	236 RELOCATED (E) TOILET PAPER DISPENSER	249 DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS
211 DEMO (E) PAPER TOWEL DISPENSER	224 (E) DRINKING FOUNTAIN TO REMAIN	237 DOOR PER SCHEDULE	250 PIPE RAIL PER SPEC
212 DEMO (E) TOILET PAPER DISPENSER	225 (E) TOILET / URINAL TO REMAIN	238 THRESHOLD / REDUCER STRIP PER SCHEDULE	251 PATCH & MATCH FLOORING TO MATCH (E) FLOORING
213 DEMO (E) SOAP DISPENSER	226 (E) LAVATORY / SINK TO REMAIN	239 REMOVE & RELOCATE (E) AIR FILTER	252 FIRE EXTINGUISHER

ADA REQ'D MIN CLEARANCES	
□	30" X 48"
□	48" X 48"
□	48" X 54"
□	48" X 60"
□	54" X 60"
□	60" X 60"
□	60" X 72"
□	60" DIA

LEGEND:

=====	DEMO (E) 2x WOOD STUD WALL
-----	TO BE DEMOLISHED
=====	(E) 2x6 WOOD STUD WALL
=====	(E) 2x4 WOOD STUD WALL
=====	(E) CONCRETE WALL
=====	2x6 WOOD STUDS @ 16" OC IV INSUL PER SPEC, UNO - NON-BEARING WALL
=====	2x4 WOOD STUDS @ 16" OC IV INSUL PER SPEC, UNO - NON-BEARING WALL



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC:
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SS ☐ FLS ☐ ACS ☐
DATE: 07/05/2023

PTN: 63321-389 FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT
S
INC.

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

STEPHEN A. CARROLL, AIA, LEED® AP
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BAKERSFIELD CITY SCHOOL DISTRICT
MADE BY THE CHIEF ARCHITECT

FLOOR PLAN
BUILDING 'A',
PARTIAL FLOOR
PLAN & DEMO
FLOOR PLAN

MARK	DATE	REVISIONS
△		
△		
△		

JOB NO.
1317
DRAWN:
ED, FS
CHECKED:
BCW
DATE:
4/24/23

2.0
5 OF 67 SHEETS

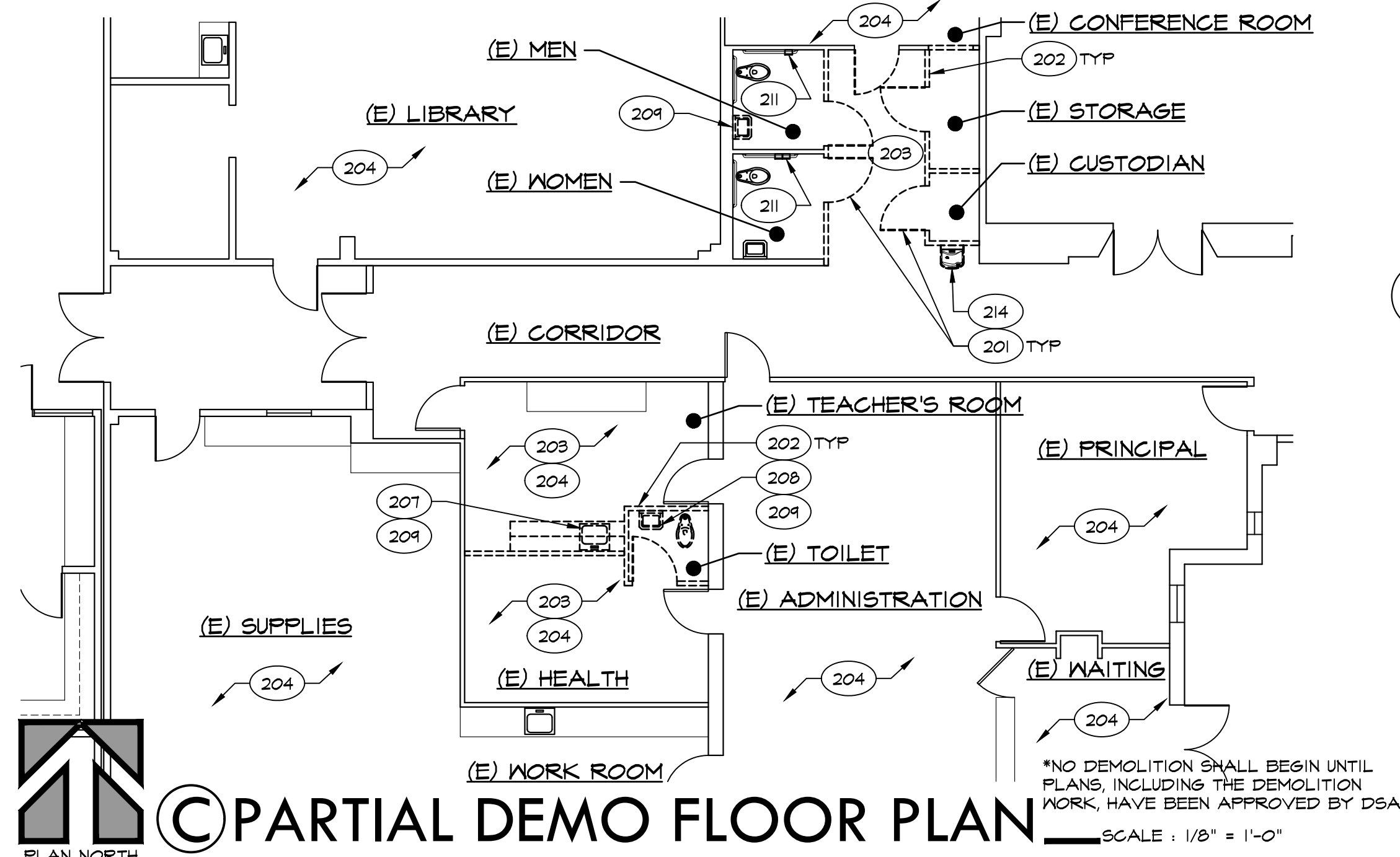
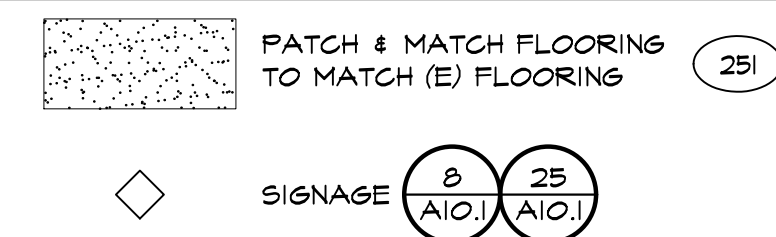
KEYNOTES											
201	DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD	214	DEMO (E) DRINKING FOUNTAIN	227	(E) GRAB BAR TO REMAIN	240	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D	22	AIO		
202	DEMO (E) 2x STUD WALL, FINISH & CONC CURB WHERE OCCURS	215	DEMO (E) WALL FINISH	228	(E) SOLID TOILET PARTITIONS TO REMAIN	241	FLAM BASE CABS AND / OR UPPER CABS	20	AIO		
203	DEMO (E) FLOOR FINISH	216	DEMO (E) PIPE COVER, SUPPLY / RETURN WATER LINES & CAP BELOW GRADE	229	(E) PAPER TOWEL DISPENSER TO REMAIN	242	SOLID PLASTIC PARTITIONS	7	AIO	6	AIO
204	DEMO (E) T-BAR CEILING SYSTEM, LIGHTING AND BATT INSULATION	217	DEMO (E) UNIT VENTILATOR	230	(E) TOILET PAPER DISPENSER TO REMAIN	243	GRAB BAR - 48" AT SIDE AND 36" AT BACK	1	AIO	8	AIO
205	DEMO (E) 1x STRIPPING AND ACOUSTICAL TILE	218	DEMO (E) LOUVER	231	(E) FLOOR DRAIN TO REMAIN	244	WINDOW PER SCHEDULE	1	AIO	6	AIO
206	REMOVE & RELOCATE (E) RECESSED AIR FILTER	219	(E) DOOR TO REMAIN	232	(E) 1/2" STD PIPE RAIL TO REMAIN	245	RECESSED PAPER TOWEL / TOILET PAPER DISPENSER PER SPEC	1	AIO	6	AIO
207	DEMO (E) CABINETS / SHELVING	220	(E) THRESHOLD TO REMAIN	233	RELOCATE (E) LAVATORY / SINK	246	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS	1	AIO	6	AIO
208	DEMO (E) TOILET / URINAL	221	(E) WINDOW TO REMAIN	234	RELOCATE (E) TOILET PAPER DISPENSER	247	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS	1	AIO	6	AIO
209	DEMO (E) LAVATORY / SINK	222	(E) CABINETS / SHELVING TO REMAIN	235	RELOCATED (E) LAVATORY / SINK	248	LAVATORY / SINK AND REQUIREMENTS - SEE PLUMBING PLANS	1	AIO	6	AIO
210	DEMO (E) SOLID TOILET PARTITIONS	223	(E) FURRED WALL TO REMAIN	236	RELOCATED (E) TOILET PAPER DISPENSER	249	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS	1	AIO	6	AIO
211	DEMO (E) PAPER TOWEL DISPENSER	224	(E) DRINKING FOUNTAIN TO REMAIN	237	DOOR PER SCHEDULE	250	PIPE RAIL PER SPEC	1	AIO	6	AIO
212	DEMO (E) TOILET PAPER DISPENSER	225	(E) TOILET / URINAL TO REMAIN	238	THRESHOLD / REDUCER STRIP PER SCHEDULE	251	PATCH & MATCH FLOORING TO MATCH (E) FLOORING	1	AIO	6	AIO
213	DEMO (E) SOAP DISPENSER	226	(E) LAVATORY / SINK TO REMAIN	239	REMOVE & RELOCATE (E) AIR FILTER	252	FIRE EXTINGUISHER	1	AIO	6	AIO

ADA REQ'D MIN CLEARANCES

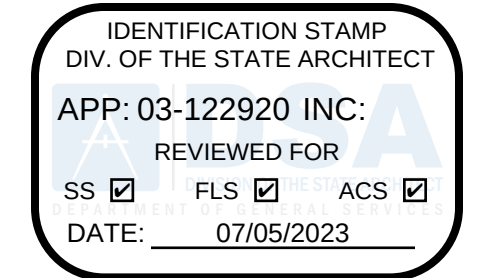
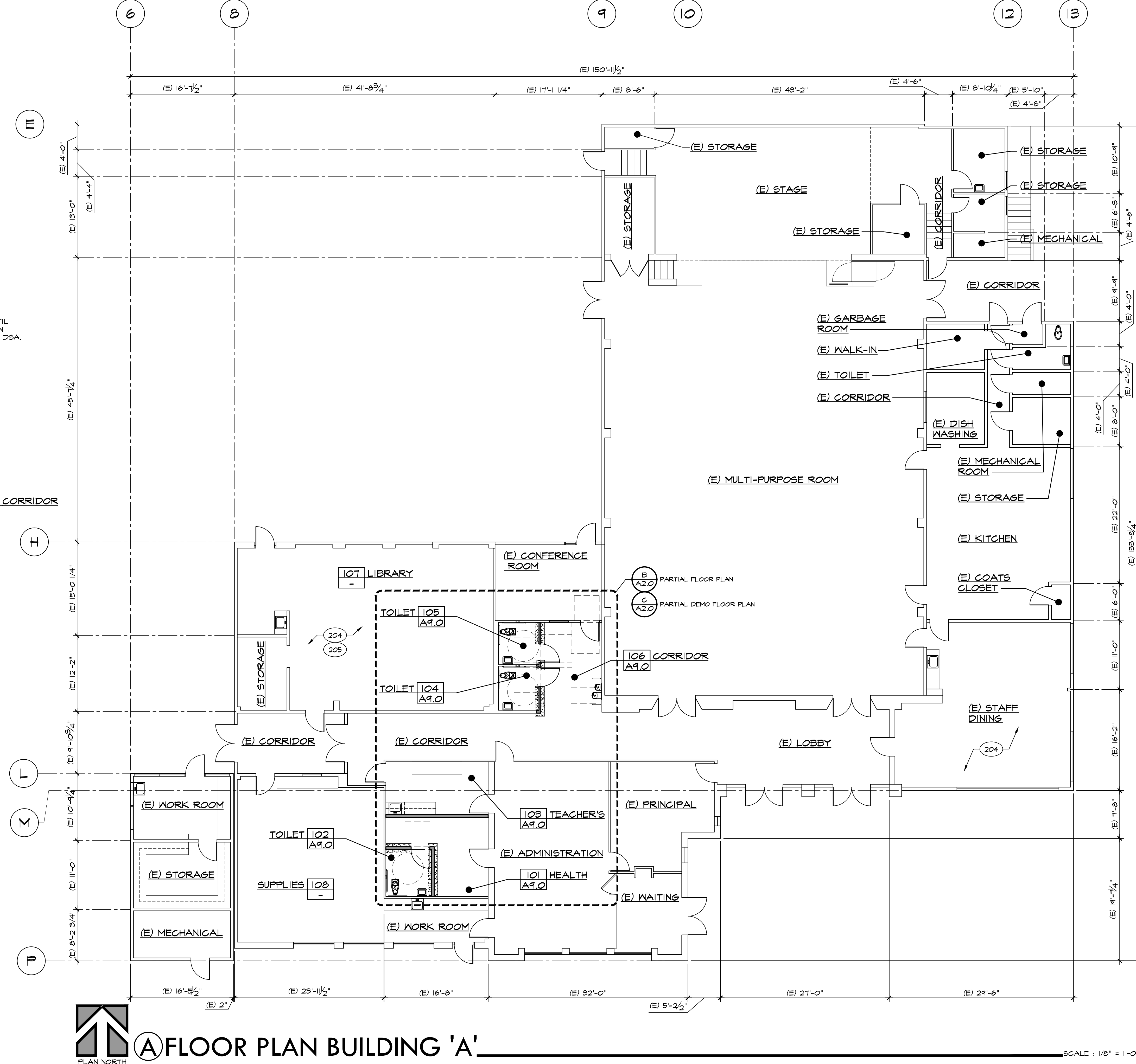
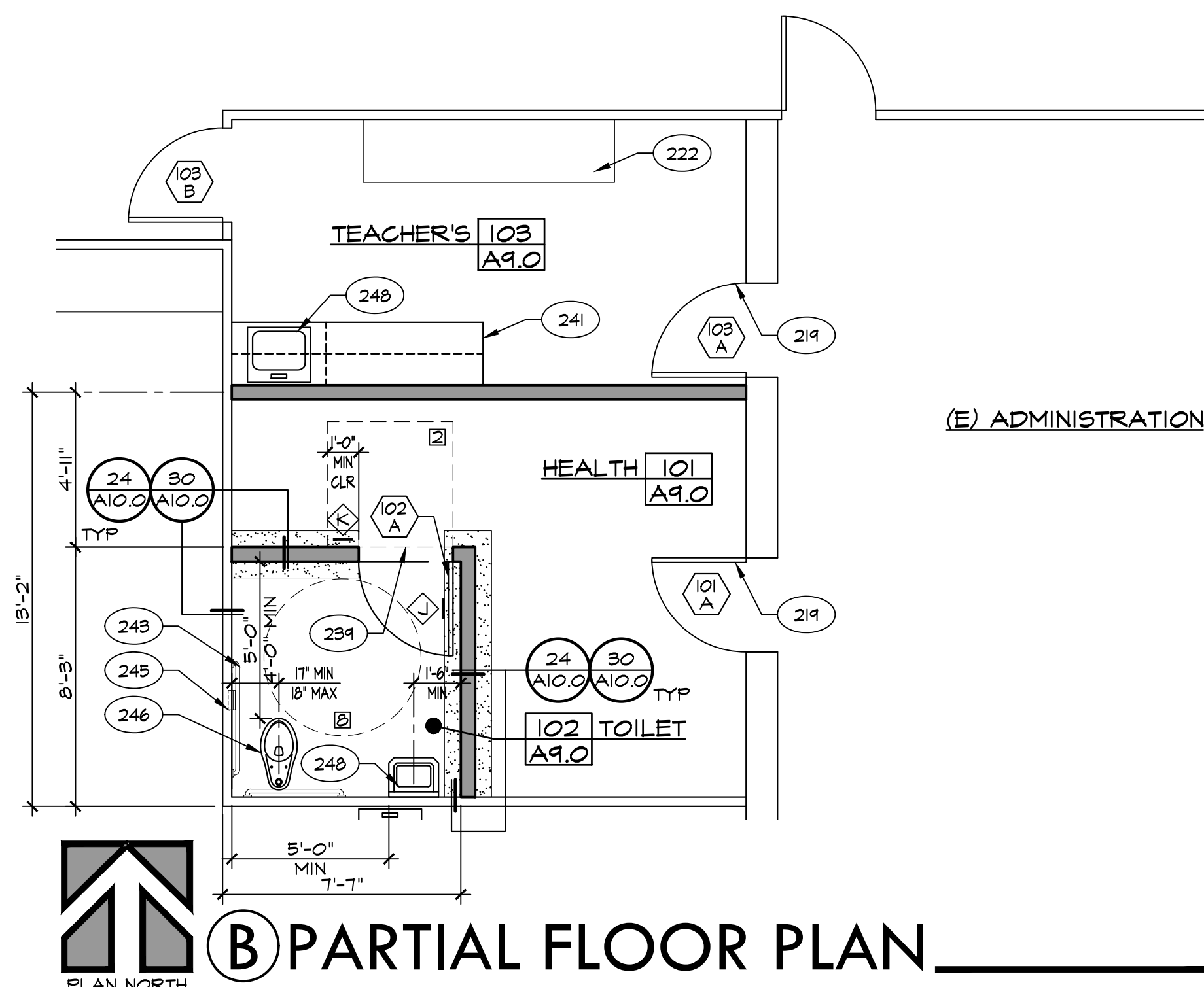
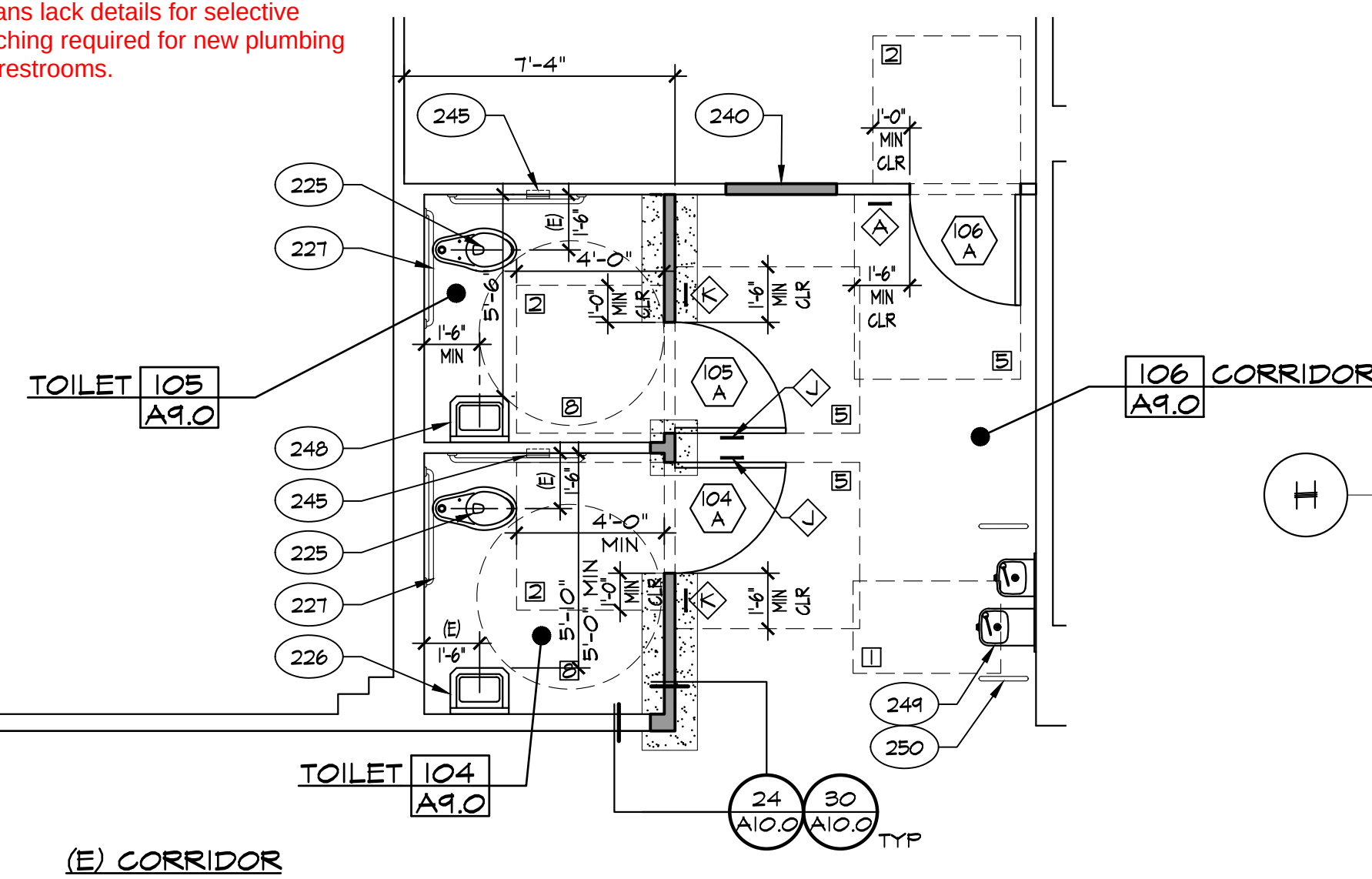
- 30' X 48'
- 48' X 48'
- 48' X 54'
- 48' X 60'
- 54' X 60'
- 60' X 60'
- 60' X 72'
- 60' DIA

LEGEND:

- ===== DEMO (E) 2x WOOD STUD WALL
- TO BE DEMOLISHED
- ===== (E) 2x6 WOOD STUD WALL
- ===== (E) 2x4 WOOD STUD WALL
- ===== (E) CONCRETE WALL
- ===== 2x6 WOOD STUDS @ 16" OC IV INSUL PER SPEC, UNO - NON-BEARING WALL
- ===== 2x4 WOOD STUDS @ 16" OC IV INSUL PER SPEC, UNO - NON-BEARING WALL



DIV 09: (VER) - Plans lack details for selective demolition and patching required for new plumbing fixture locations in restrooms.

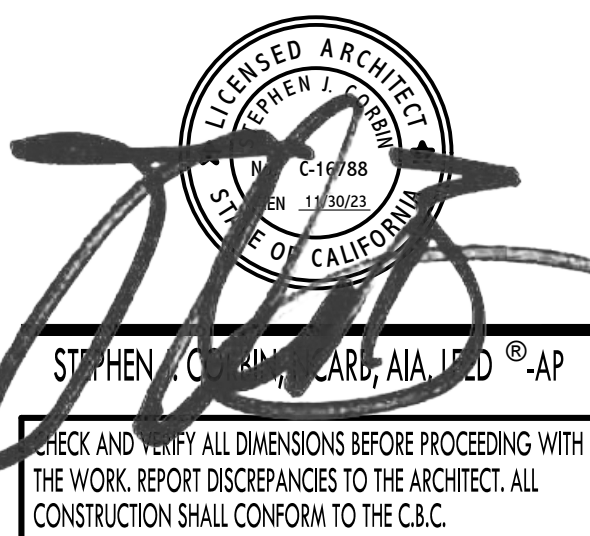


PTN: 63321-389 FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
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2324 VERDE STREET
FOR
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BAKERSFIELD, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM



FLOOR PLAN
BUILDING 'A',
PARTIAL FLOOR
PLAN & DEMO
FLOOR PLAN

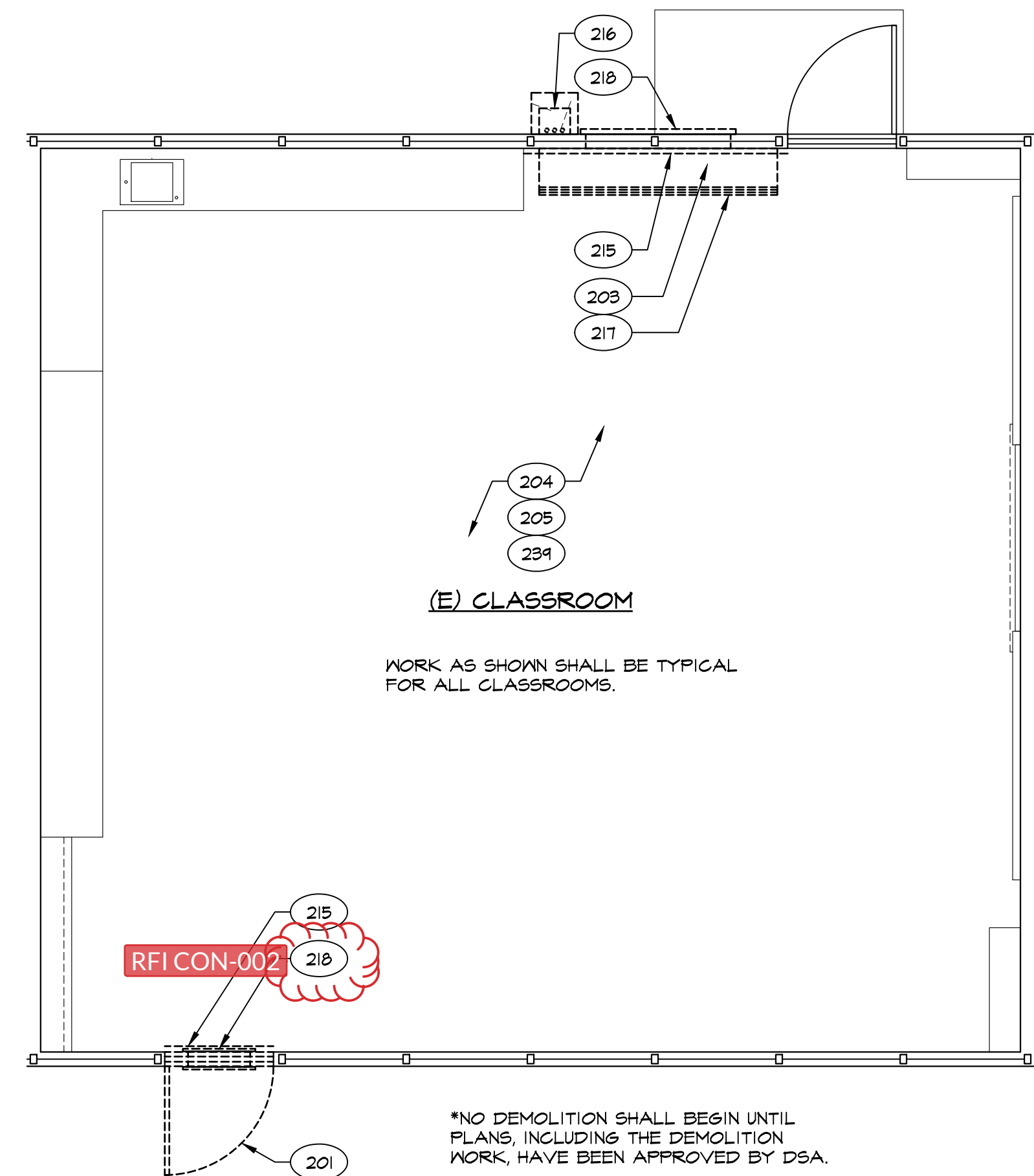
MARK	DATE	REVISIONS
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JOB NO.	1317
DRAWN:	ED, FS
CHECKED:	BCW
DATE:	4/24/23
2.0	5 OF 67 SHEETS

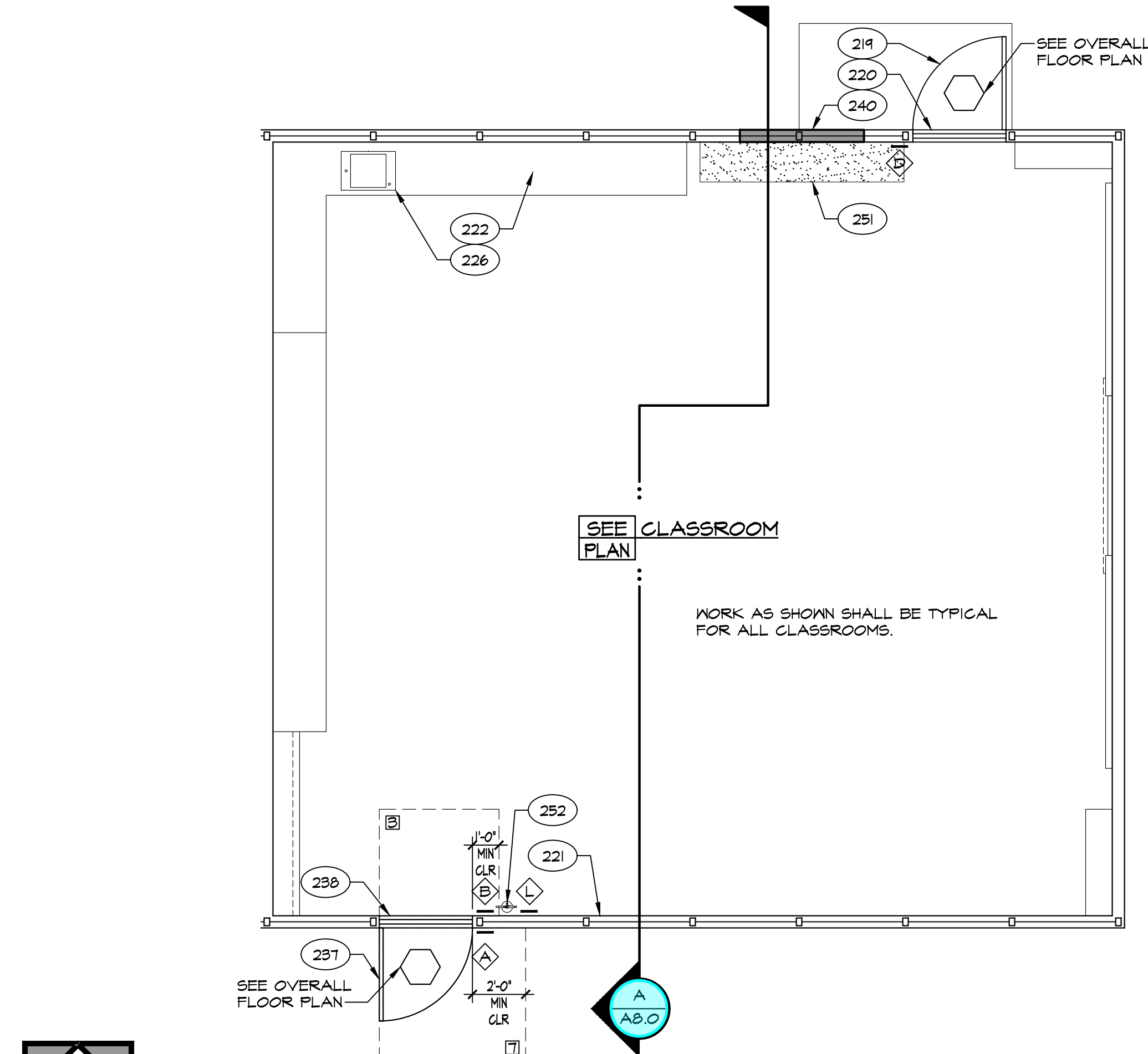
KEYNOTES	
201	DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD
202	DEMO (E) 2x STUD WALL, FINISH & CONC CURB WHERE OCCURS
203	DEMO (E) FLOOR FINISH
204	DEMO (E) T-BAR CEILING SYSTEM, LIGHTING AND BATT INSULATION
205	DEMO (E) 1X STRIPPING AND ACOUSTICAL TILE
206	REMOVE & RELOCATE (E) RECESSED AIR FILTER
207	DEMO (E) CABINETS / SHELVING
208	DEMO (E) TOILET / URINAL
209	DEMO (E) LAVATORY / SINK
210	DEMO (E) SOLID TOILET PARTITIONS
211	DEMO (E) PAPER TOWEL DISPENSER
212	DEMO (E) TOILET PAPER DISPENSER
213	DEMO (E) SOAP DISPENSER
214	DEMO (E) DRINKING FOUNTAIN
215	DEMO (E) WALL FINISH
216	DEMO (E) PIPE COVER, SUPPLY / RETURN WATER LINES & GAP BELOW GRADE
217	DEMO (E) UNIT VENTILATOR
218	DEMO (E) LOUVER
219	(E) DOOR TO REMAIN
220	(E) THRESHOLD TO REMAIN
221	(E) WINDOW TO REMAIN
222	(E) CABINETS / SHELVING TO REMAIN
223	(E) FURRED WALL TO REMAIN
224	(E) DRINKING FOUNTAIN TO REMAIN
225	(E) TOILET / URINAL TO REMAIN
226	(E) LAVATORY / SINK TO REMAIN
227	(E) GRAB BAR TO REMAIN
228	(E) SOLID TOILET PARTITIONS TO REMAIN
229	(E) PAPER TOWEL DISPENSER TO REMAIN
230	(E) TOILET PAPER DISPENSER TO REMAIN
231	(E) FLOOR DRAIN TO REMAIN
232	(E) 1/2" STD PIPE RAIL TO REMAIN
233	RELOCATE (E) LAVATORY / SINK
234	RELOCATE (E) TOILET PAPER DISPENSER
235	RELOCATED (E) LAVATORY / SINK
236	RELOCATED (E) TOILET PAPER DISPENSER
237	DOOR PER SCHEDULE
238	THRESHOLD / REDUCER STRIP PER SCHEDULE
239	REMOVE & RELOCATE (E) AIR FILTER
240	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D
241	FLAM BASE CABS AND / OR UPPER CABS
242	SOLID PLASTIC PARTITIONS
243	GRAB BAR - 48" AT SIDE AND 36" AT BACK
244	WINDOW PER SCHEDULE
245	RECESSED PAPER TOWEL /TOILET PAPER DISPENSER PER SPEC
246	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS
247	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS
248	LAVATORY / SINK AND REQUIREMENTS - SEE PLUMBING PLANS
249	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS
250	PIPE RAIL PER SPEC
251	PATCH & MATCH FLOORING TO MATCH (E) FLOORING
252	FIRE EXTINGUISHER

ADA REQ'D MIN CLEARANCES	
□	30" X 48"
▣	48" X 48"
▤	48" X 54"
▥	48" X 60"
▧	54" X 60"
▨	60" X 60"
▩	60" X 66"
⊗	60" DIA

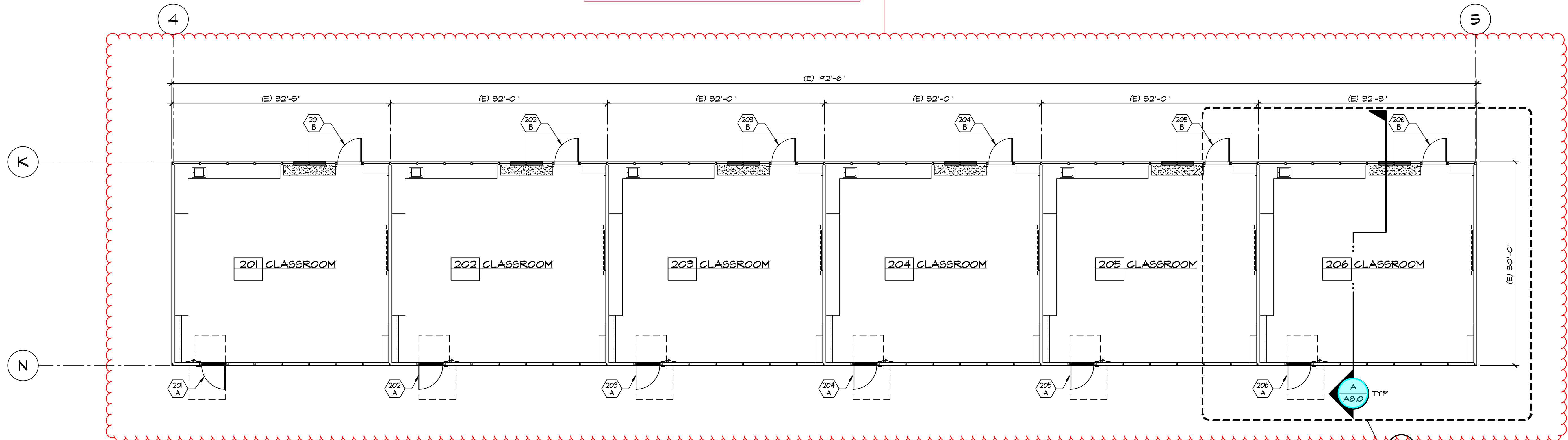
LEGEND:	
=====	(E) 2x WOOD STUD WALL
	DEMO (E) CONC SLAB AS REQ'D
	PATCH & MATCH FLOORING TO MATCH (E) FLOORING
◇	SIGNAGE



PLAN NORTH
C DEMO PARTIAL FLOOR PLAN
TYPICAL CLASSROOM
SCALE : 1/4" = 1'-0"



PLAN NORTH
B PARTIAL FLOOR PLAN
TYPICAL CLASSROOM
SCALE : 1/4" = 1'-0"



PLAN NORTH
A FLOOR PLAN BUILDING 'B'
SCALE : 1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC:
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SS FLS ACS
DATE: 07/05/2023

PTN: 63321-389 FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT
SCARCHITECT INC.

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
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BAKERSFIELD CITY SCHOOL DISTRICT
KERN COUNTY, CALIFORNIA

FLOOR PLAN
BUILDING 'B',
PARTIAL FLOOR
PLAN & DEMO
FLOOR PLAN

MARK	DATE	REVISIONS
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△		

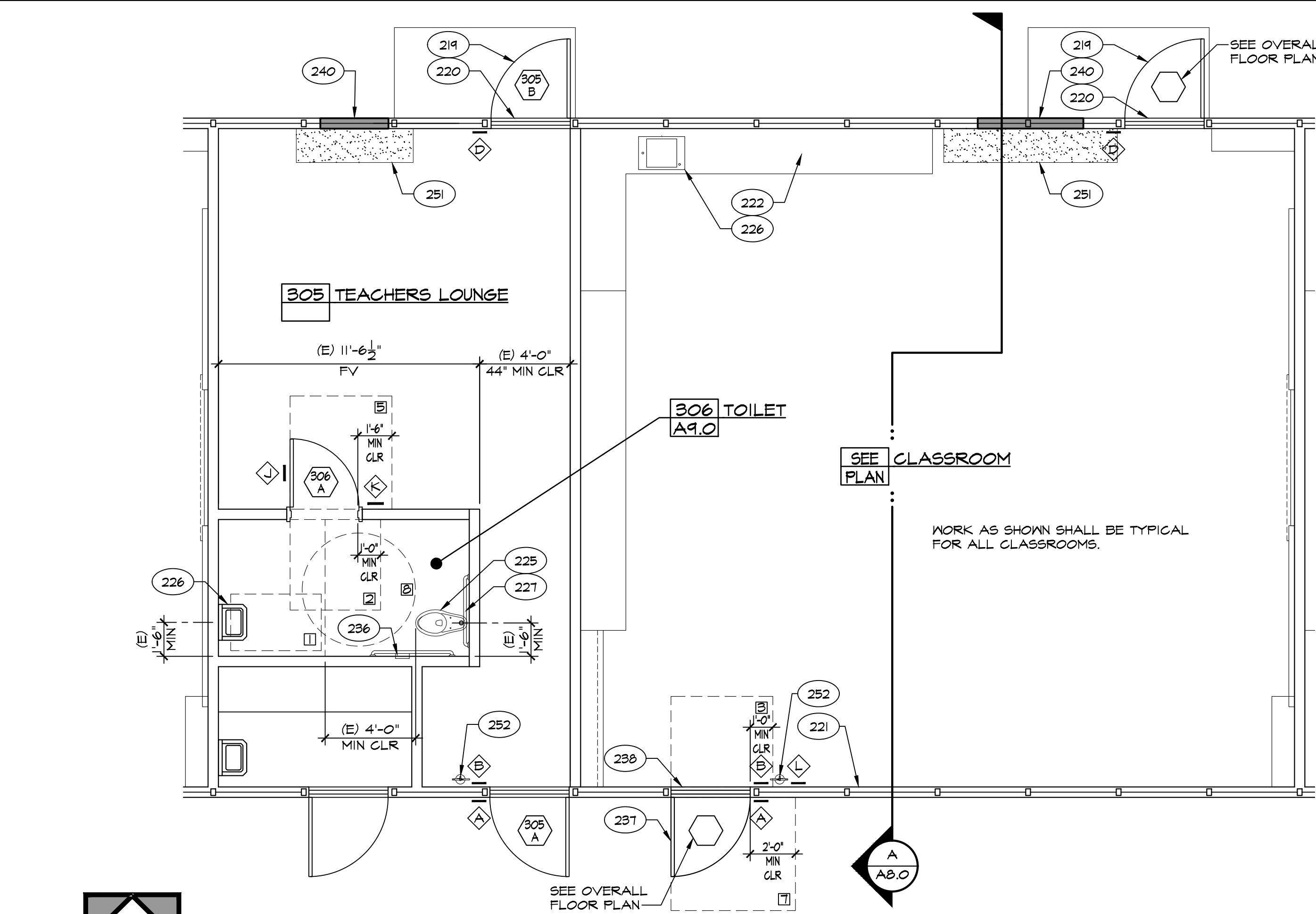
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6 OF 67 SHEETS

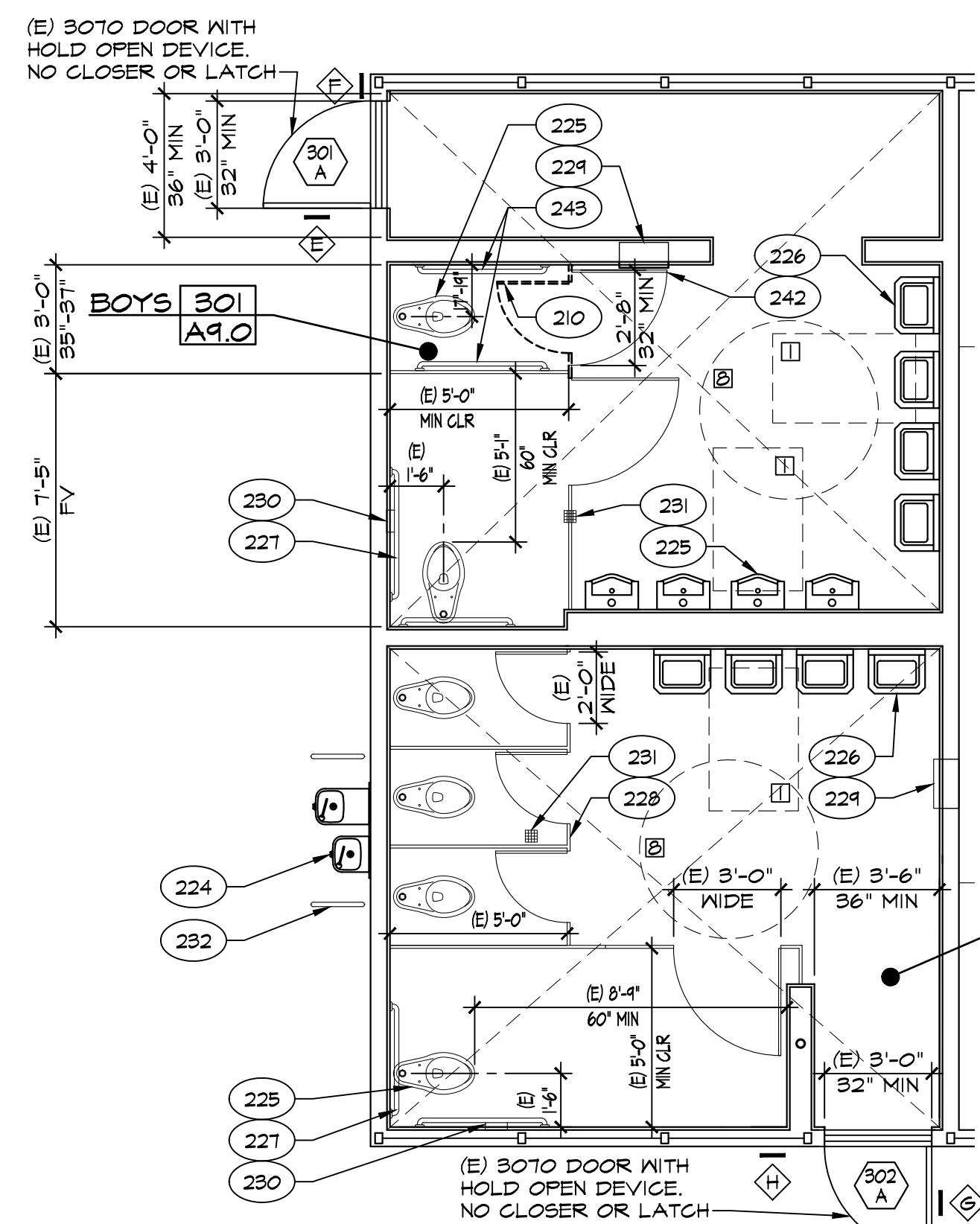
KEYNOTES			
201	DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD	214	DEMO (E) DRINKING FOUNTAIN
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204	DEMO (E) T-BAR CEILING SYSTEM, LIGHTING AND BATT INSULATION	217	DEMO (E) UNIT VENTILATOR
205	DEMO (E) 1x STRIPPING AND ACQ	218	DEMO (E) LOUVER
206	REMOVE & RELOCATE (E) RECESSED AIR FILTER	219	(E) DOOR TO REMAIN
207	DEMO (E) CABINETS / SHELVING	220	(E) THRESHOLD TO REMAIN
208	DEMO (E) TOILET / URINAL	221	(E) WINDOW TO REMAIN
209	DEMO (E) LAVATORY / SINK	222	(E) CABINETS / SHELVING TO REMAIN
210	DEMO (E) SOLID TOILET PARTITIONS	223	(E) FURRED WALL TO REMAIN
211	DEMO (E) PAPER TOWEL DISPENSER	224	(E) DRINKING FOUNTAIN TO REMAIN
212	DEMO (E) TOILET PAPER DISPENSER	225	(E) TOILET / URINAL TO REMAIN
213	DEMO (E) SOAP DISPENSER	226	(E) LAVATORY / SINK TO REMAIN
227	(E) GRAB BAR TO REMAIN	240	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D
228	(E) SOLID TOILET PARTITIONS TO REMAIN	241	FLAM BASE CABS AND / OR UPPER CABS
229	(E) PAPER TOWEL DISPENSER TO REMAIN	242	SOLID PLASTIC PARTITIONS
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231	(E) FLOOR DRAIN TO REMAIN	244	WINDOW PER SCHEDULE
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233	RELOCATE (E) LAVATORY / SINK	246	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS
234	RELOCATE (E) TOILET PAPER DISPENSER	247	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS
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236	RELOCATED (E) TOILET PAPER DISPENSER	249	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS
237	DOOR PER SCHEDULE	250	PIPE RAIL PER SPEC
238	THRESHOLD / REDUCER STRIP PER SCHEDULE	251	PATCH & MATCH FLOORING TO MATCH (E) FLOORING
239	REMOVE & RELOCATE (E) AIR FILTER	252	FIRE EXTINGUISHER

ADA REQ'D MIN CLEARANCES	
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□	54" X 60"
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□	60" X 66"
□	60" DIA

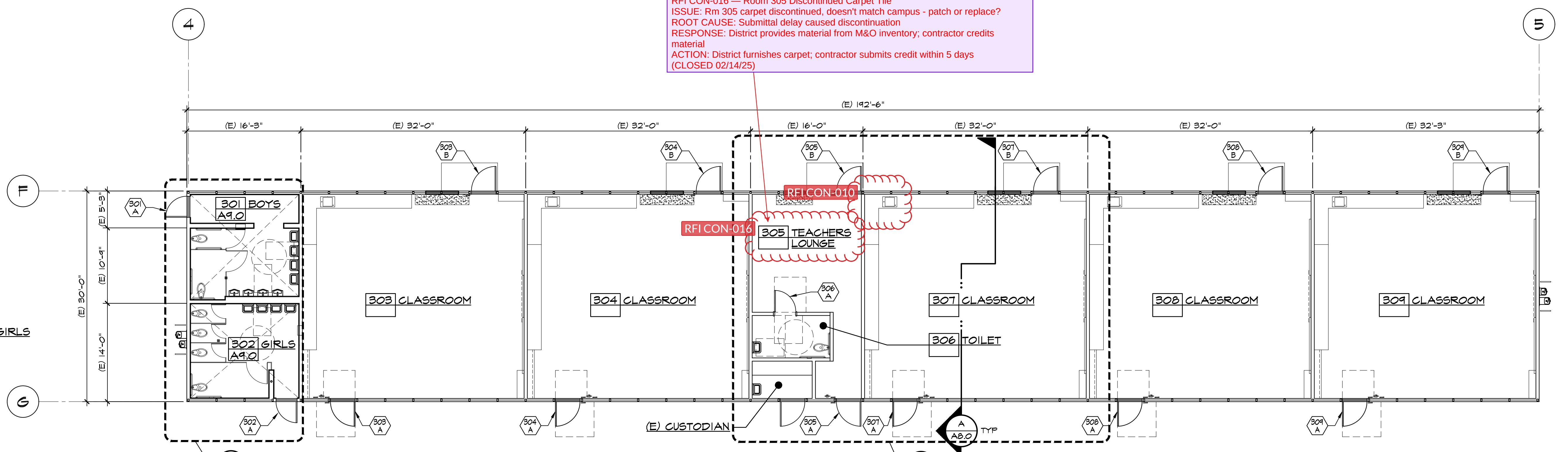
LEGEND:	
-----	DEMO (E) 2x WOOD STUD WALL
=====	(E) 2x WOOD STUD WALL
⊠	(E) 2" DEPRESS SLAB
⊠	DEMO (E) CONC SLAB AS REQ'D
⊠	PATCH & MATCH FLOORING TO MATCH (E) FLOORING
◇	SIGNAGE



D PARTIAL FLOOR PLAN
TYPICAL CLASSROOM & WOMEN - PER A# 03-116979
SCALE: 1/4" = 1'-0"



B RESTROOMS
BOYS / GIRLS - PER A# 03-116979
SCALE: 1/4" = 1'-0"



C PARTIAL DEMO FLOOR PLAN
TYPICAL CLASSROOM & TEACHER'S LOUNGE
SCALE: 1/4" = 1'-0"

RFI CON-016 — Room 305 Discontinued Carpet Tile
ISSUE: Rm 305 carpet discontinued, doesn't match campus - patch or replace?
ROOT CAUSE: Submittal delay caused discontinuation
RESPONSE: District provides material from M&O inventory; contractor credits material
ACTION: District furnishes carpet; contractor submits credit within 5 days (CLOSED 02/14/25)

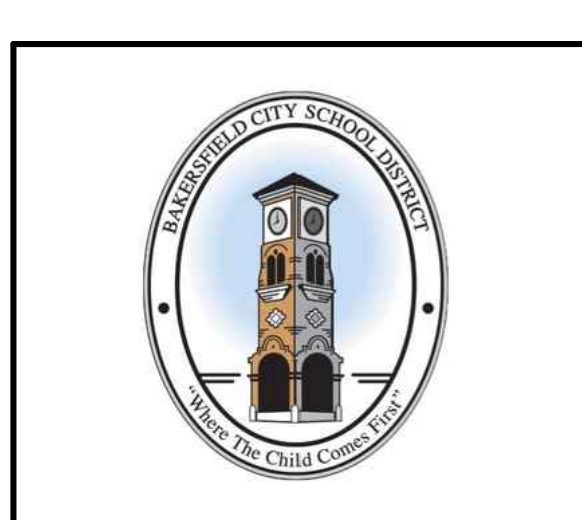
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FLOOR PLAN
BUILDING 'C',
PARTIAL FLOOR
PLAN & DEMO
FLOOR PLAN

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△		
△		

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2.2
7 OF 67 SHEETS

KEYNOTES			
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204 DEMO (E) T-BAR CEILING SYSTEM, LIGHTING AND BATT INSULATION	217 DEMO (E) UNIT VENTILATOR	224 (E) TOILET PAPER DISPENSER TO REMAIN	243 GRAB BAR - 48" AT SIDE AND 36" AT BACK
205 DEMO (E) 1X STRIPPING AND AC	218 DEMO (E) LOUVER	225 (E) FLOOR DRAIN TO REMAIN	244 WINDOW TO REMAIN
206 REMOVE & RELOCATE (E) RECESSED AIR FILTER	219 (E) DOOR TO REMAIN	226 (E) 1/2" STD PIPE RAIL TO REMAIN	245 RECESSED PAPER TOWEL / TOILET PAPER DISPENSER PER SPEC
207 DEMO (E) CABINETS / SHELVING	220 (E) THRESHOLD TO REMAIN	227 RELOCATE (E) LAVATORY / SINK	246 TOILET AND REQUIREMENTS - SEE PLUMBING PLANS
208 DEMO (E) TOILET / URINAL	221 (E) WINDOW TO REMAIN	228 RELOCATE (E) TOILET PAPER DISPENSER	247 URINAL AND REQUIREMENTS - SEE PLUMBING PLANS
209 DEMO (E) LAVATORY / SINK	222 (E) CABINETS / SHELVING TO REMAIN	229 RELOCATED (E) LAVATORY / SINK	248 LAVATORY / SINK AND REQUIREMENTS - SEE PLUMBING PLANS
210 DEMO (E) SOLID TOILET PARTITIONS	223 (E) FURRED WALL TO REMAIN	230 RELOCATED (E) TOILET PAPER DISPENSER	249 DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS
211 DEMO (E) PAPER TOWEL DISPENSER	224 (E) DRINKING FOUNTAIN TO REMAIN	231 DOOR PER SCHEDULE	250 PIPE RAIL PER SPEC
212 DEMO (E) TOILET PAPER DISPENSER	225 (E) TOILET / URINAL TO REMAIN	232 THRESHOLD / REDUCER STRIP PER SCHEDULE	251 PATCH & MATCH FLOORING TO MATCH (E) FLOORING
213 DEMO (E) SOAP DISPENSER	226 (E) LAVATORY / SINK TO REMAIN	233 REMOVE & RELOCATE (E) AIR FILTER	252 FIRE EXTINGUISHER

ADA REQ'D MIN CLEARANCES

- 30" X 48"
- 48" X 48"
- 48" X 54"
- 48" X 60"
- 54" X 60"
- 60" X 60"
- 60" X 66"
- 60" DIA

LEGEND:

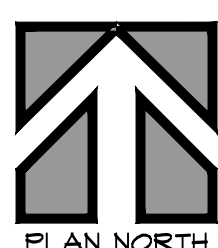
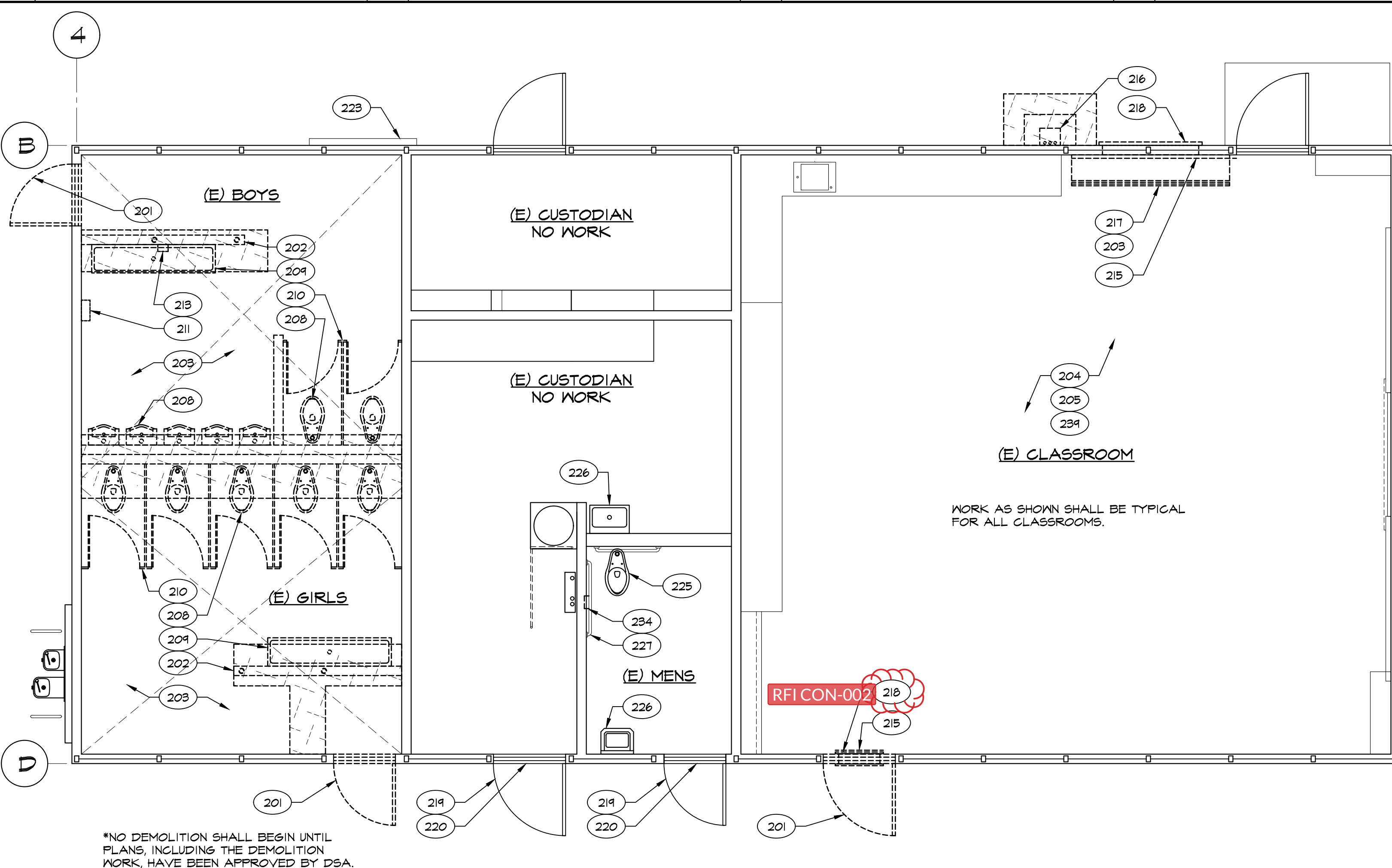
- DEMO (E) 2x WOOD STUD WALL
- (E) 2x6 WOOD STUD WALL
- 2x4 WOOD STUDS @ 16" OC O / 6" CONC CURB NON-BEARING WALL
- 2x6 WOOD STUDS @ 16" OC O / 6" CONC CURB NON-BEARING WALL
- ◇ SIGNAGE

(E) 2" DEPRESS SLAB

DEMO (E) CONC SLAB / AC PAVING AS REQUIRED

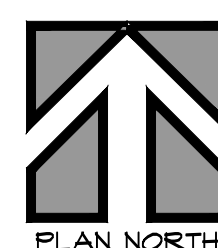
PATCH & MATCH AC PAVING AS REQUIRED

PATCH & MATCH FLOORING TO MATCH (E) FLOORING



© PARTIAL DEMO FLOOR PLAN

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

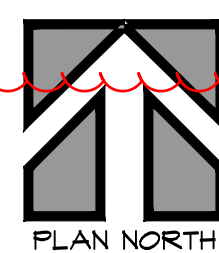
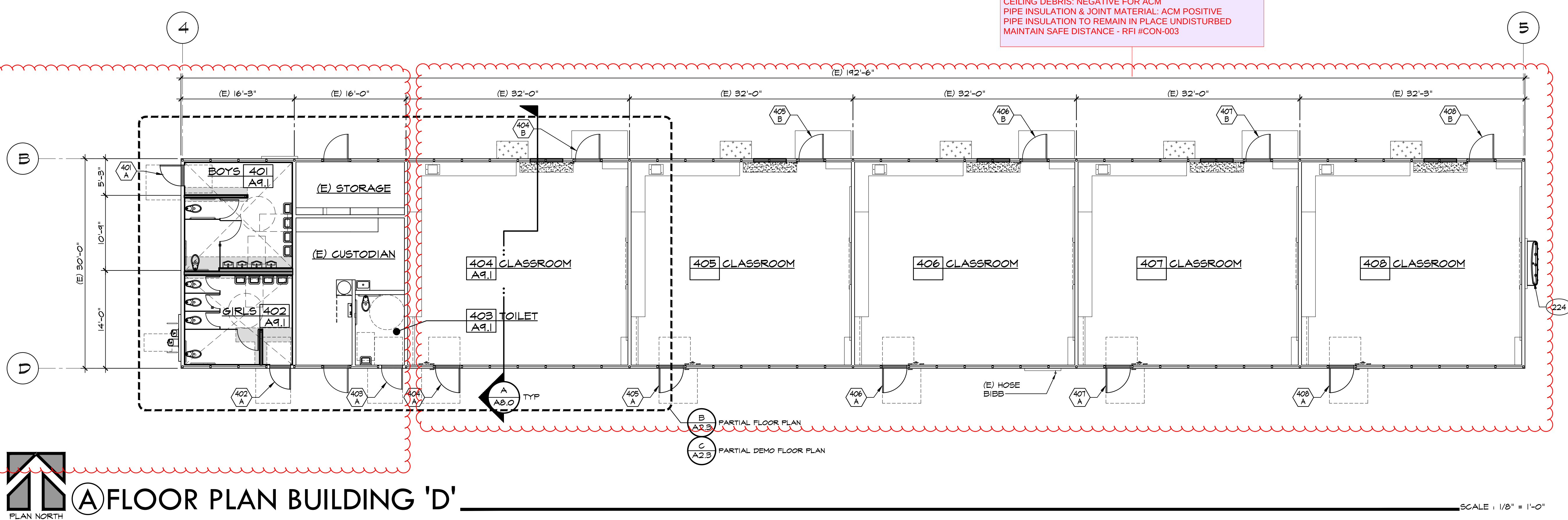


© PARTIAL FLOOR PLAN

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

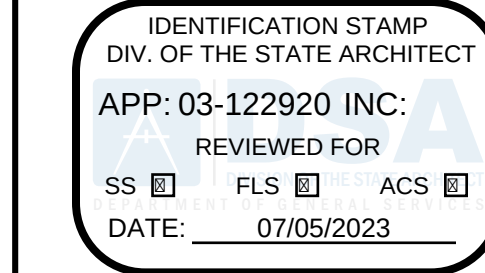
CON-039 | Sheets: A2.3
DEPRESSED SLAB CLARIFICATION
RESTROOMS 401 & 402
PER RFI-039 (07/08/25)

RFI CON-003 — ACM Pipe Insulation
CEILING DEBRIS: NEGATIVE FOR ACM
PIPE INSULATION & JOINT MATERIAL: ACM POSITIVE
PIPE INSULATION TO REMAIN IN PLACE UNDISTURBED
MAINTAIN SAFE DISTANCE - RFI #CON-003



© FLOOR PLAN BUILDING 'D'

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

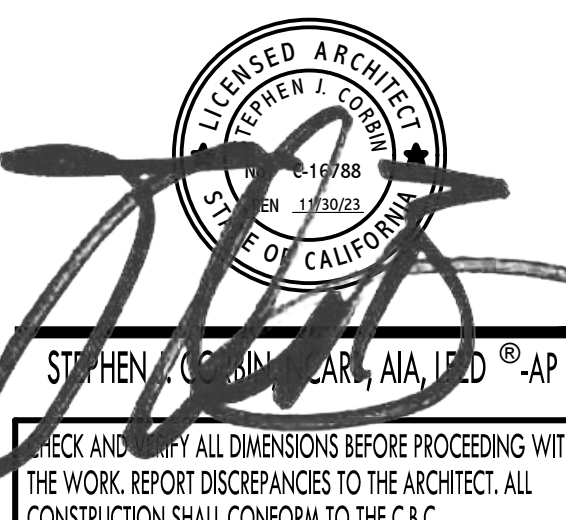


PTN: 63321-389 FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



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FLOOR PLAN
BUILDING 'D',
PARTIAL FLOOR
PLAN & DEMO
FLOOR PLAN

MARK	DATE	REVISIONS
△		
△		
△		

JOB NO.
1317
DRAWN:
ED, FS
CHECKED:
BCW
DATE:
5/25/23

2.3
8 OF 67 SHEETS

SUSPENDED CEILING NOTES (ACOUSTICAL)

1. CEILING SYSTEM GENERAL NOTES
- 1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF ASTM E580.
- 1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
- 1.03 CEILING SYSTEMS, THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:
- MANUFACTURER: (ARMSTRONG SUSPENDED CEILING SYSTEM OR APPROVED EQUAL)
- PRODUCT NAME: PRELUDE XL 15/16"
- EVALUATION REPORT TYPE AND NUMBER: ICG # ESR-1308
- MAIN RUNNER PART, MODEL, OR CATALOG NUMBER: #T301
- CROSS RUNNER PART, MODEL, CATALOG NUMBER: #XL T341
- 2 FOOT CROSS-T #XL T341
- 1.04 SEISMIC WALL CLIP: SEISMIC JOINT CLIP FOR RUNNER SPLICE 5/16" X 1/2" & USE EXPANSION SLEEVE E544
- MANUFACTURER'S MODEL:
- 1.05 CEILING PANELS SHALL NOT SUPPORT ANY LUMINAIRES, AIR TERMINALS OR DEVICES.
- 1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE 1/4" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE 1/4" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP. CLEARANCE BETWEEN CEILING GRID RUNNERS/MEMBERS AND WALLS SHALL COMPLY WITH THE DETAILS ON THESE DRAWINGS REGARDLESS OF CEILING TILE MATERIAL.
2. MATERIALS
- 2.01 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 ULTIMATE TENSILE STRENGTH = 70 KSI.
- 2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A5.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, (AISI S100). MATERIAL 48 MIL (16 GAUGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GAUGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.
- 2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 741 CARBON STEEL WITH 640 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (FY) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (FU) OF 48 KSI.
3. ATTACHMENT OF HANGER AND BRACING WIRES
- 3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
- 3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.
- 3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.
- 3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.
- 3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE (E.G., BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.).
4. FASTENERS AND WELDING
- 4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1519 AND ASME B18.6.3. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.
- 4.02 EXPANSION ANCHORS SHALL BE: [RDP TO INDICATE MANUFACTURER, PRODUCT, EVALUATION REPORT NUMBER AND TEST LOAD FOR EACH SIZE SPECIFIED PER CBC 1910A.5.4.]
- 4.03 POWER-ACTUATED FASTENERS SHALL BE: [RDP TO INDICATE MANUFACTURER, PRODUCT, EVALUATION REPORT NUMBER.]
- 4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER.
- 4.05 POWER-ACTUATED FASTENERS IN CONCRETE OR MASONRY ARE NOT PERMITTED FOR BRACING WIRES.
- 4.06 CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING POST-INSTALLED ANCHORS.
- 4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.
5. TESTING
- 5.01 ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.
- 5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER-ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 POUNDS IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1910A.5.
- 5.03 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1910A.5.
6. LUMINAIRES
- 6.01 ALL LUMINAIRES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE LUMINAIRE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LUMINAIRE, PER ASTM E580 SECTION 5.3.1.
- 6.02 SURFACE-MOUNTED LUMINAIRES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 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 A LUMINAIRE IS 8 FEET OR LONGER OR EXCEEDS 56 POUNDS. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.
- 6.03 LUMINAIRES WEIGHING LESS THAN OR EQUAL TO 10 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, SHALL HAVE A MINIMUM OF ONE #12 GAUGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
- 6.04 LUMINAIRES WEIGHING GREATER THAN 10 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO #12 GAUGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE. EXCEPTION: ALL LUMINAIRES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE AT EACH CORNER.
- 6.05 ALL LUMINAIRES WEIGHING GREATER THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT #12 GAUGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR TAUT #12 GAUGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE FIXTURE.
7. SERVICES WITHIN THE CEILING
- 7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
- 7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 POUNDS SHALL HAVE ONE #12 GAUGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
- 7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS SHALL HAVE TWO #12 GAUGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
- 7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 POUNDS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR TAUT #12 GAUGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.
8. OTHER DEVICES WITHIN THE CEILING
- 8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 POUNDS SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

REFLECTED CEILING PLAN NOTES:

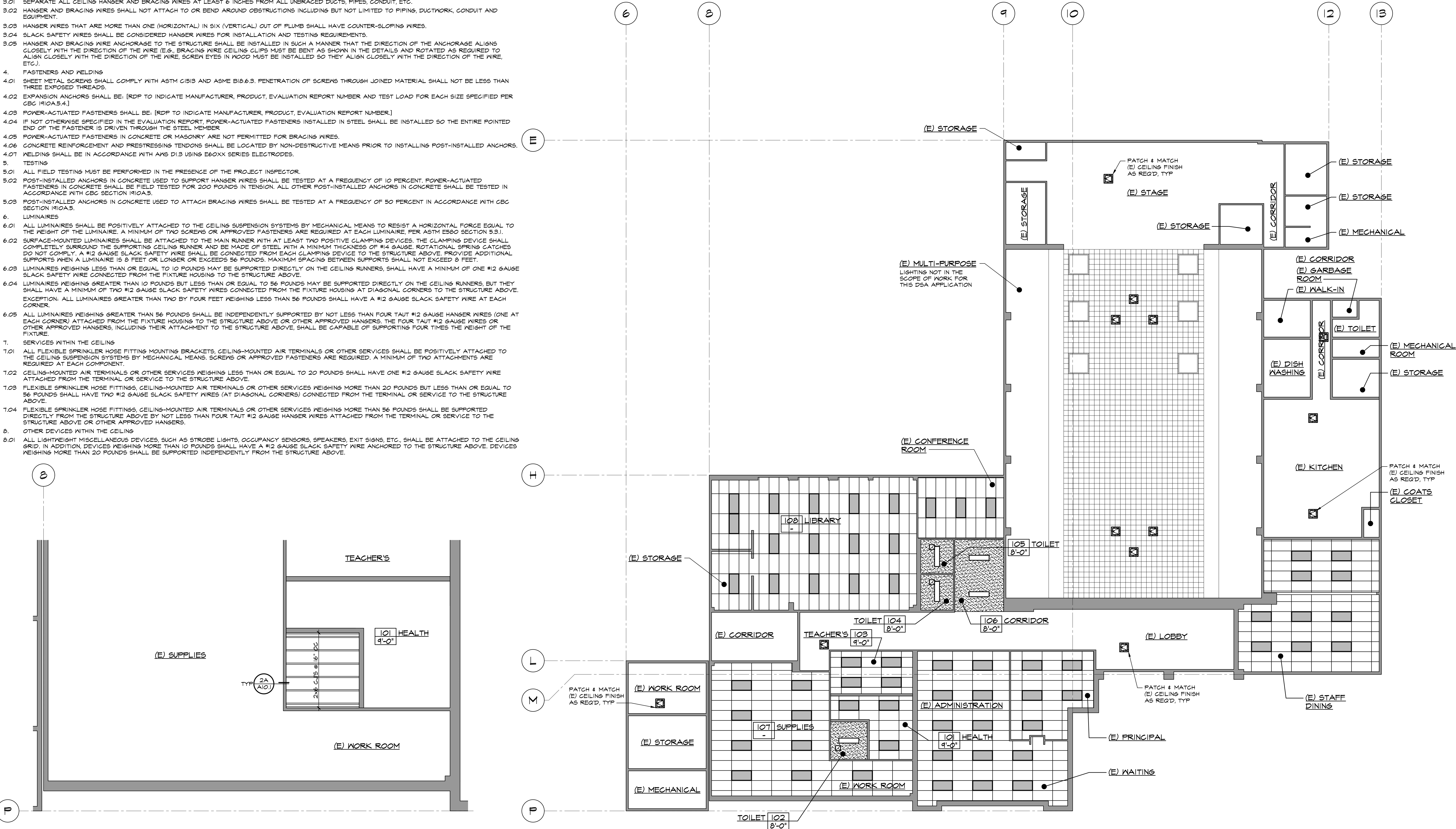
1. SEE ROOM FINISH SCHEDULE FOR CEILING FINISHES.
2. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION.
3. INSULATION PER SPEC BETWEEN (E) FRAMING MEMBERS AT ROOF DECK

OCCUPANTS / # OF EXITS REQ'D						
BLDG #	ROOM #	DESCRIPTION	FLOOR AREA SF PER RM	SF / OCC LOAD PER CBC 2019, TABLE 1004.5	OCC FACTOR	MINIMUM REQUIRED EXIT PER CBC 2019 1006.2.1
A	101	SUPPLIES	610	300 NET	2	1
	102	LIBRARY	970	50 NET	19	1

NOTE:
PER CBC SECTION 1003.1, EXCEPTION 1, EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR AREAS THAT REQUIRE ONLY ONE EXIT OR EXIT ACCESS.

REFLECTED CEILING LEGEND

- DASHED LINE INDICATES CEILING GRID IS NOT ATTACHED TO WALL. FREE END, REFER TO REFLECTED CEILING PLAN FOR LOCATIONS.
- TYPICAL 12 GA. HANGER WIRES AT ALL CORNERS OF LIGHT FIXTURES AND AIR TERMINALS. SEE DETAIL ON ELEC. DWGS
- MAIN RUNNERS AT 4'-0" OC TYPICAL.
- CROSS RUNNERS AT 2'-0" OC TYPICAL.
- ATTACH CEILING GRID TO TWO ADJACENT WALLS WHERE NO DASHED LINES ARE SHOWN ON REFLECTED CEILING PLAN, FIXED END.
- TYPICAL 12 GA. HANGERS 8" FROM WALLS 4'-0" OC THEREAFTER ATTACHED TO STRUCTURE.
- SPLAY WIRES AND COMPRESSION STRUTS PER DETAIL. SEE DETAIL FOR LOCATIONS.
- 24" X 48" SUSPENDED ACOUSTICAL CEILING SYSTEM SEE DETAILS
- REINSTALLED (E) RECESSED AIR FILTER SEE ELECTRICAL PLANS
- 2'-0" X 4'-0" RECESSED LIGHT FIXTURE SEE ELECTRICAL PLANS
- 1'-0" X 4'-0" SURFACE MTD. LIGHT FIXTURE SEE ELECTRICAL PLANS
- (E) 4'-0" X 4'-0" SURFACE MTD. LIGHT FIXTURE
- (E) 1/2" ACOUSTIC CEILING
- 5/8" TYPE "X" GYP BD WITH 1/8" VENEER PLASTER
- CEILING REGISTERS SEE MECHANICAL PLANS
- ACCESS PANEL, COORDINATE LOCATION WITH HEAT DETECTOR AS SHOWN ON ELECTRICAL

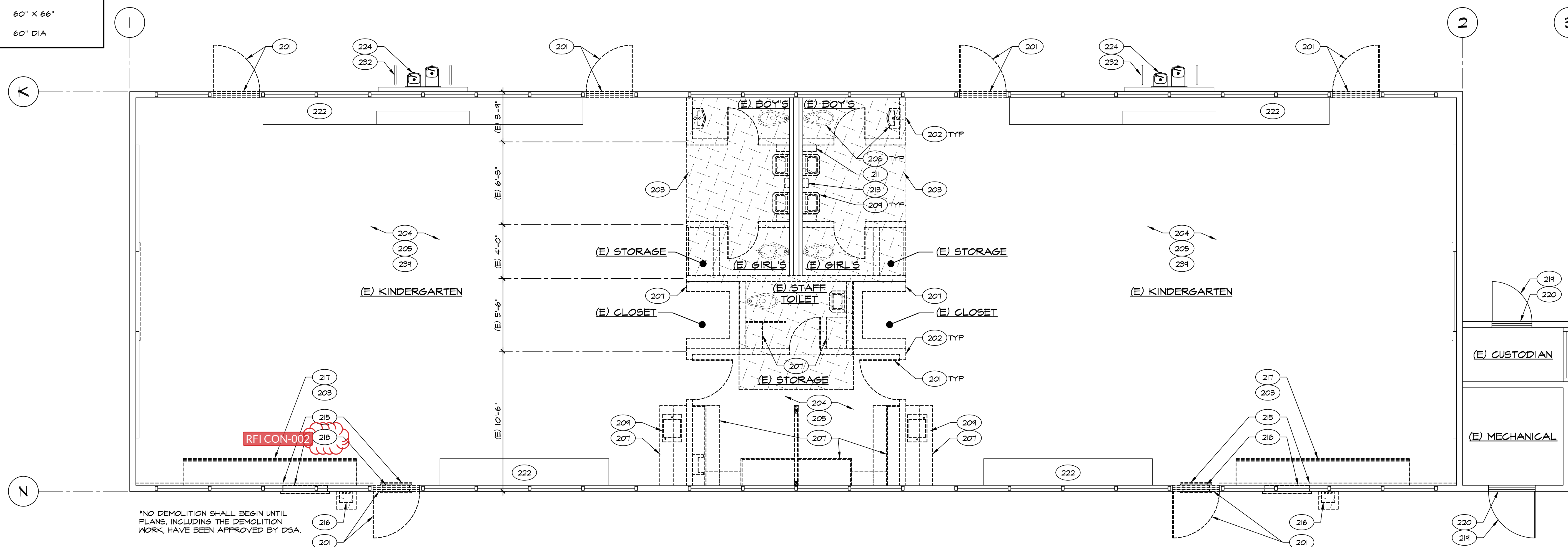


KEYNOTES	
201	DEMO (E) DOOR, FRAME, HARDWARE & THRESHOLD
202	DEMO (E) 2x STUD WALL, FINISH & CONC CURB WHERE OCCURS
203	DEMO (E) FLOOR FINISH
204	DEMO (E) T-BAR CEILING SYSTEM, LIGHTING AND BATT INSULATION
205	DEMO (E) 1x STRIPPING AND ACOUSTICAL TILE
206	REMOVE & RELOCATE (E) RECESSED AIR FILTER
207	DEMO (E) CABINETS / SHELVING
208	DEMO (E) TOILET / URINAL
209	DEMO (E) LAVATORY / SINK
210	DEMO (E) SOLID TOILET PARTITIONS
211	DEMO (E) PAPER TOWEL DISPENSER
212	DEMO (E) TOILET PAPER DISPENSER
213	DEMO (E) SOAP DISPENSER
214	DEMO (E) DRINKING FOUNTAIN
215	DEMO (E) WALL FINISH
216	DEMO (E) PIPE COVER, SUPPLY / RETURN WATER LINES & CAP BELOW GRADE
217	DEMO (E) UNIT VENTILATOR
218	DEMO (E) LOUVER
219	(E) DOOR TO REMAIN
220	(E) THRESHOLD TO REMAIN
221	(E) WINDOW TO REMAIN
222	(E) CABINETS/SHELVING TO REMAIN
223	(E) FURRED WALL TO REMAIN
224	(E) DRINKING FOUNTAIN TO REMAIN
225	(E) TOILET / URINAL TO REMAIN
226	(E) LAVATORY / SINK TO REMAIN
227	(E) GRAB BAR TO REMAIN
228	(E) SOLID TOILET PARTITIONS TO REMAIN
229	(E) PAPER TOWEL DISPENSER TO REMAIN
230	(E) TOILET PAPER DISPENSER TO REMAIN
231	(E) FLOOR DRAIN TO REMAIN
232	(E) 1/2" STD PIPE RAIL TO REMAIN
233	RELOCATE (E) LAVATORY / SINK
234	RELOCATE (E) TOILET PAPER DISPENSER
235	RELOCATED (E) LAVATORY / SINK
236	RELOCATED (E) TOILET PAPER DISPENSER
237	DOOR PER SCHEDULE
238	THRESHOLD / REDUCER STRIP PER SCHEDULE
239	REMOVE & RELOCATE (E) AIR FILTER
240	WALL IN-FILL, PATCH & MATCH WALL FINISHES AS REQ'D
241	FLAM BASE CABS AND / OR UPPER CABS
242	SOLID PLASTIC PARTITIONS
243	GRAB BAR - 48" AT SIDE AND 36" AT BACK
244	WINDOW PER SCHEDULE
245	RECESSED PAPER TOWEL / TOILET PAPER DISPENSER PER SPEC
246	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS
247	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS
248	LAVATORY / SINK AND REQUIREMENTS - SEE PLUMBING PLANS
249	DRINKING FOUNTAIN REQUIREMENTS - SEE PLUMBING PLANS
250	PIPE RAIL PER SPEC
251	PATCH & MATCH FLOORING TO MATCH (E) FLOORING
252	FIRE EXTINGUISHER
253	KNEE SPACE REQUIREMENTS

ADA REQ'D MIN CLEARANCES	
30" X 48"	
48" X 48"	
48" X 54"	
48" X 60"	
54" X 60"	
60" X 60"	
60" X 66"	
60" DIA	

LEGEND:

-----	DEMO (E) 2x WOOD STUD WALL	-----	DEMO (E) CONC SLAB AS REQ'D	-----	PATCH & MATCH FLOORING TO MATCH (E) FLOORING
=====	(E) 2x6 WOOD STUD WALL	=====	CONC SLAB IN-FILL	=====	SIGNAGE
=====	(E) 2-2x4 WOOD STUD WALL	=====	DEPRESS CONC SLAB	=====	
=====	2x6 WOOD STUDS @ 16" OC O/ 6" CONC CURB W/ INSUL PER SPEC, UNO - NON-BEARING WALL	=====		=====	
=====	2x4 WOOD STUDS @ 16" OC UNO - NON-BEARING WALL	=====		=====	



B DEMO FLOOR PLAN BUILDING 'E'

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

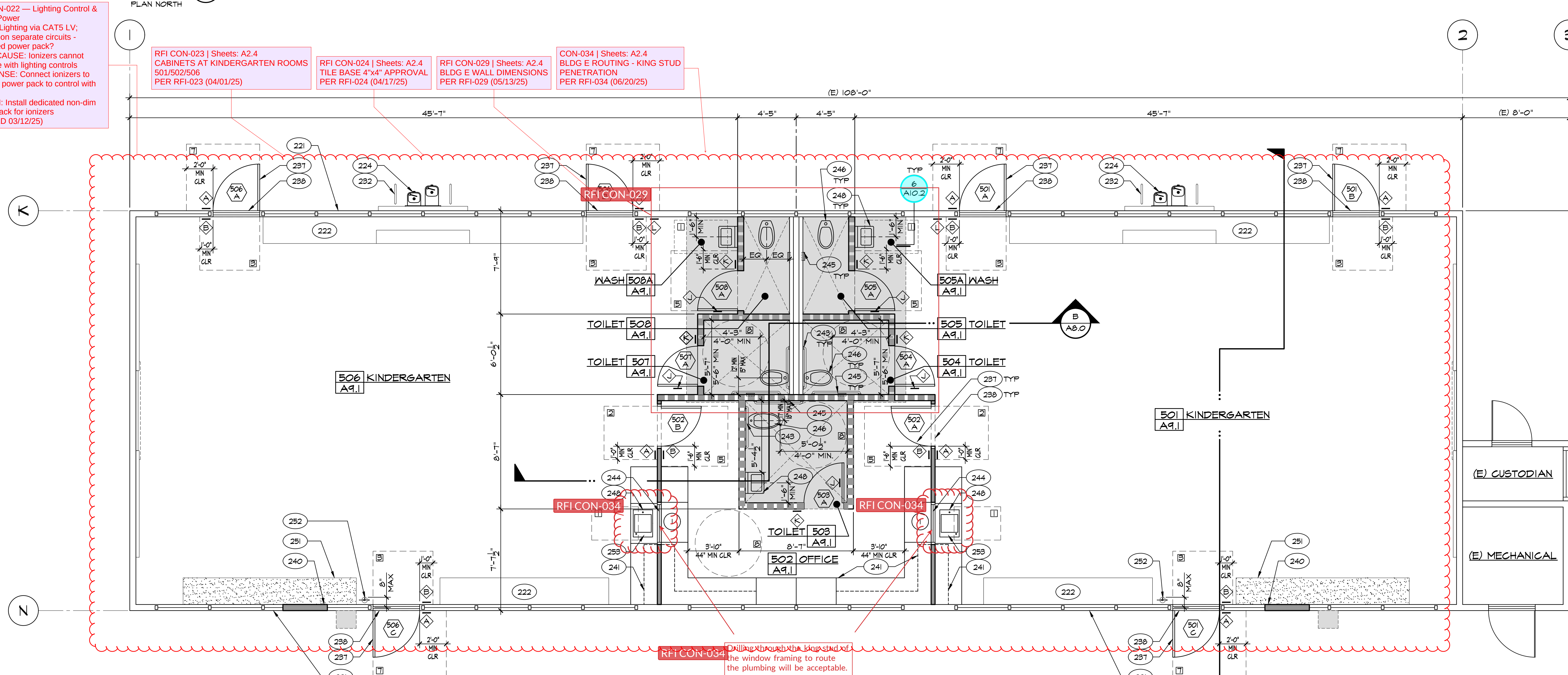
RFI CON-022 — Lighting Control & Ionizer Power
ISSUE: Lighting via CAT5 LV; ionizers on separate circuits - dedicated power pack?
ROOT CAUSE: Ionizers cannot integrate with lighting controls
RESPONSE: Connect ionizers to non-dim power pack to control with lighting
ACTION: Install dedicated non-dim power pack for ionizers (CLOSED 03/12/25)

RFI CON-023 | Sheets: A2.4
CABINETS AT KINDERGARTEN ROOMS
501/502/506
PER RFI-023 (04/01/25)

RFI CON-024 | Sheets: A2.4
TILE BASE 4"x4" APPROVAL
PER RFI-024 (04/17/25)

RFI CON-029 | Sheets: A2.4
BLDG E WALL DIMENSIONS
PER RFI-029 (05/13/25)

CON-034 | Sheets: A2.4
BLDG E ROUTING - KING STUD
PENETRATION
PER RFI-034 (06/20/25)



A FLOOR PLAN BUILDING 'E'

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC.
REVIEWED FOR
SS FLS ACS
DATE: 07/05/2023

PTN: 63321-389 FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT
SCARCHITECT, INC.
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
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WWW.SCARCHITECT.COM

STEPHEN J. COHEN, AIA, LEED®-AP
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH
THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL
CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BAKERSFIELD CITY SCHOOL DISTRICT

FLOOR PLAN
BUILDING 'E'
& DEMO
FLOOR PLAN
BUILDING 'E'

MARK	DATE	REVISIONS
△		
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JOB NO.
1317
DRAWN:
ED, FS
CHECKED:
BCW
DATE:
6/29/23

2.4
9 OF 67 SHEETS

1. CEILING SYSTEM GENERAL NOTES

1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF ASTM E580.

1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.

1.03 CEILING SYSTEMS, THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:

MANUFACTURER: (ARM-STRONG SUSPENDED CEILING SYSTEM OR APPROVED EQUAL)

PRODUCT NAME: PRELUDE XL 1516'

CLASSIFICATION OF CEILING GRID IS HEAVY-DUTY

EVALUATION REPORT TYPE AND NUMBER: ICC # ESR-1309

MAIN RUNNER PART, MODEL, OR CATALOG NUMBER: #T301

CROSS RUNNER PART, MODEL, CATALOG NUMBER: #XL T341

2 FOOT CROSS-T XL# T341

1.04 SEISMIC WALL CLIP:

MANUFACTURER'S MODEL: SEISMIC JOINT CLIP FOR RUNNER SLICE #MR4.4 USE EXPANSION SLEEVE ES44

1.05 CEILING PANELS SHALL NOT SUPPORT ANY LUMINAIRES, AIR TERMINALS OR DEVICES.

1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE 3/4" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE 3/4" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP. CLEARANCE BETWEEN CEILING GRID RUNNERS/MEMBERS AND WALLS SHALL COMPLY WITH THE DETAILS ON THESE DRAWINGS REGARDLESS OF CEILING TILE MATERIAL.

2. MATERIALS

2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAUGE (.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM ULTIMATE TENSILE STRENGTH = 70 KSI.

2.02 CEILING SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653, OR OTHER EQUIVALENT. SHEET STEEL SHALL BE 24 GAUGE. THE AMERICAN SPECIFICATION FOR THE DESIGN OF GOLD-FORMED STEEL STRUCTURAL MEMBERS, (AISI 900), MATERIAL 43 MIL (10 GAUGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 34 MIL (16 GAUGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.

2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.30UL 191 CARBON STEEL WITH 600 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (FY) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (FU) OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES

3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.

3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.

3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.

3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.

3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE (E.G., BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE. SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.

4. FASTENERS AND WELDING

4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1519 AND ASME B10.8.3. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.

4.02 EXPANSION ANCHORS SHALL BE: [RDP TO INDICATE MANUFACTURER, PRODUCT, EVALUATION REPORT NUMBER AND TEST LOAD FOR EACH SIZE SPECIFIED PER CBC 190A.5.4.]

4.03 POWER-ACTUATED FASTENERS SHALL BE: [RDP TO INDICATE MANUFACTURER, PRODUCT, EVALUATION REPORT NUMBER.]

4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER.

4.05 POWER-ACTUATED FASTENERS IN CONCRETE OR MASONRY ARE NOT PERMITTED FOR BRACING WIRES.

4.06 CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING POST-INSTALLED ANCHORS.

5. WELDING SHALL BE IN ACCORDANCE WITH AWS D13 USING E60XX SERIES ELECTRODES.

5. TESTING

5.01 ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.

5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER-ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 POUNDS IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 190A.5.

5.03 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 190A.5.

6. LUMINAIRES

6.01 ALL LUMINAIRES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE LUMINAIRE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LUMINAIRE, PER ASTM E580 SECTION 5.3.1.

6.02 SURFACE-MOUNTED LUMINAIRES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY ENCASE 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 A LUMINAIRE IS 8 FEET OR LONGER OR EXCEEDS 56 POUNDS. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.

6.03 LUMINAIRE WEIGHTS LESS THAN OR EQUAL TO 10 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS. SHALL HAVE A MINIMUM OF ONE #12 GAUGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

6.04 LUMINAIRE WEIGHTS GREATER THAN 10 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO #12 GAUGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE. EXCEPTION: ALL LUMINAIRE GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE AT EACH CORNER.

6.05 ALL LUMINAIRE WEIGHTS GREATER THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT #12 GAUGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR TAUT #12 GAUGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE FIXTURE.

7. SERVICES WITHIN THE CEILING

7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.

7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 POUNDS SHALL HAVE ONE #12 GAUGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS SHALL HAVE TWO #12 GAUGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 POUNDS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR TAUT #12 GAUGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

8. OTHER DEVICES WITHIN THE CEILING

8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 POUNDS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 POUNDS SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

2. SEE ROOM FINISH SCHEDULE FOR CEILING FINISHES.
3. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION.
3. INSULATION PER SPEC BETWEEN (E) FRAMING MEMBERS AT ROOF DECK

OCCUPANTS / # OF EXITS REQ'D							
BLDG #	ROOM #	DESCRIPTION	FLOOR AREA SF PER RM	SF / OCC LOAD PER CBC 2019, TABLE 1004.5		MINIMUM REQUIRED EXIT	
				OCC FACTOR	MAXIMUM OCC PER RM	PER CBC 2019 [1006.2.1]	
				OCC < 44 (1) EXIT REQ'D	# OF EXITS PROVIDED		
1A	101	SUPPLIES	610	300 NET	2	1	2
	108	LIBRARY	970	50 NET	14	1	2

NOTE:
PER CBC SECTION 1013.1, EXCEPTION 1, EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR AREAS THAT REQUIRE ONLY ONE EXIT OR EXIT ACCESS.

DASHED LINE INDICATES CEILING GRID IS NOT ATTACHED TO WALL. FREE END. REFER TO REFLECTED CEILING PLAN FOR LOCATIONS.

TYPICAL 12 GA. HANGER WIRES AT ALL CORNERS OF LIGHT FIXTURES AND AIR TERMINALS. SEE DETAIL ON ELEC. DNGS

MAIN RUNNERS AT 4'-0" OC TYPICAL.

CROSS RUNNERS AT 2'-0" OC TYPICAL.

ATTACH CEILING GRID TO TWO ADJACENT WALLS WHERE NO DASHED LINES ARE SHOWN ON REFLECTED CEILING PLAN. FIXED END.

TYPICAL 12 GA. HANGERS 8" FROM WALLS 4'-0" OC THEREAFTER ATTACHED TO STRUCTURE.

SPLY WIRES AND COMPRESSION STRUTS PER DETAIL. SEE DETAIL FOR LOCATIONS.

24" x 48" SUSPENDED ACOUSTICAL CEILING SYSTEM. SEE DETAILS.

REINSTALLED (E)
RECESSED AIR FILTER
SEE ELECTRICAL PLANS

2'-0" x 4'-0"
RECESSED LIGHT FIXTURE
SEE ELECTRICAL PLANS

1'-0" x 4'-0" SURFACE
MTD. LIGHT FIXTURE
SEE ELECTRICAL PLANS

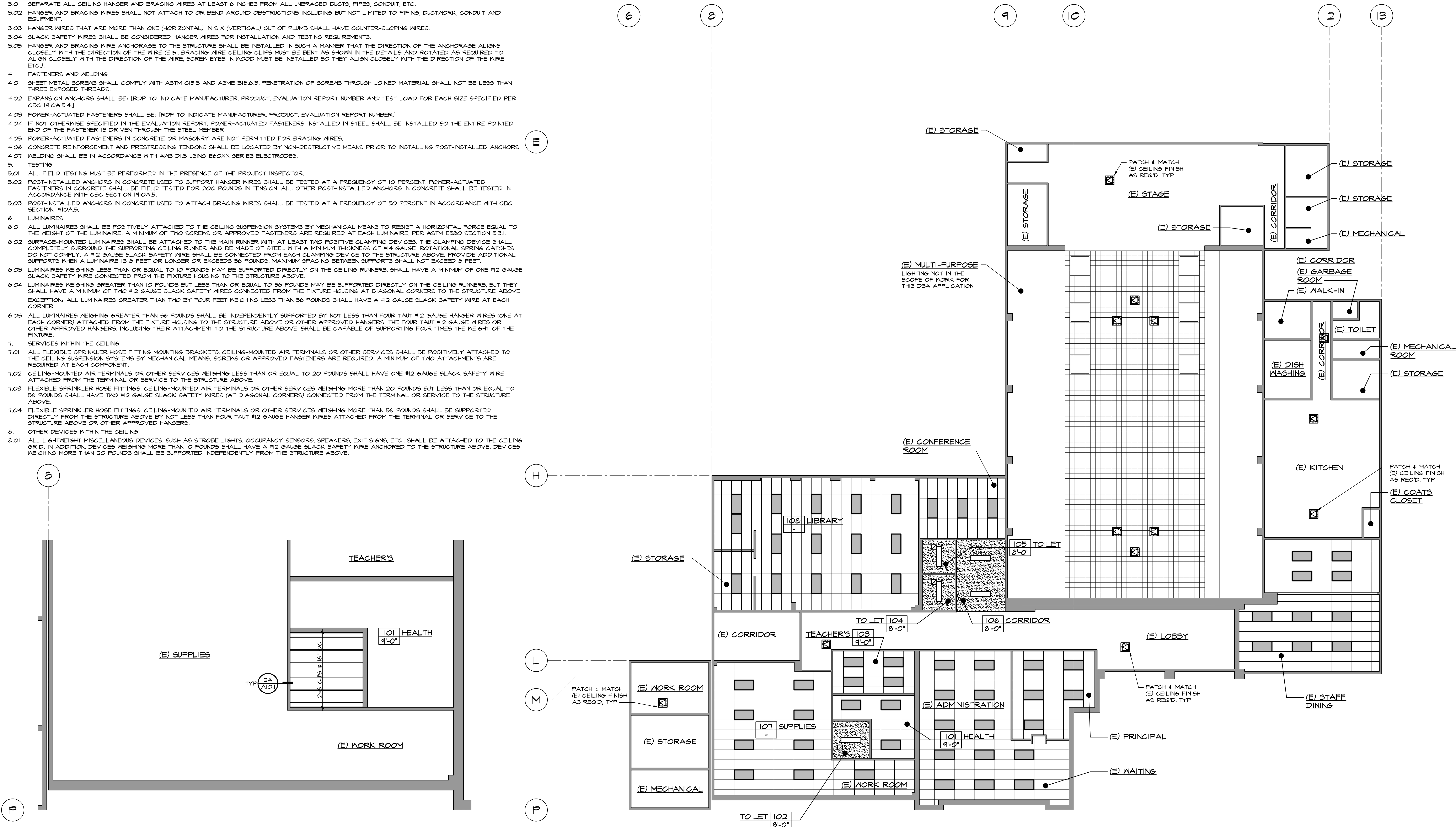
(E) 4'-0" x 4'-0" SURFACE
MTD. LIGHT FIXTURE

(E) 1/2" ACOUSTIC CEILING

3/8" TYPE "X" GYP BD
WITH 1/8" VENEER PLASTER

CEILING REGISTERS
SEE MECHANICAL PLANS

ACCESS PANEL, COORDINATE
LOCATION WITH HEAT DETECTOR
AS SHOWN ON ELECTRICAL



PARTIAL CEILING JOIST PLAN



REFLECTED CEILING PLAN BUILDING 'A'

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-122920 INC:
REVIEWED FOR
SS ☐ FLS ☐ ACS ☐
DATE: 07/05/2023

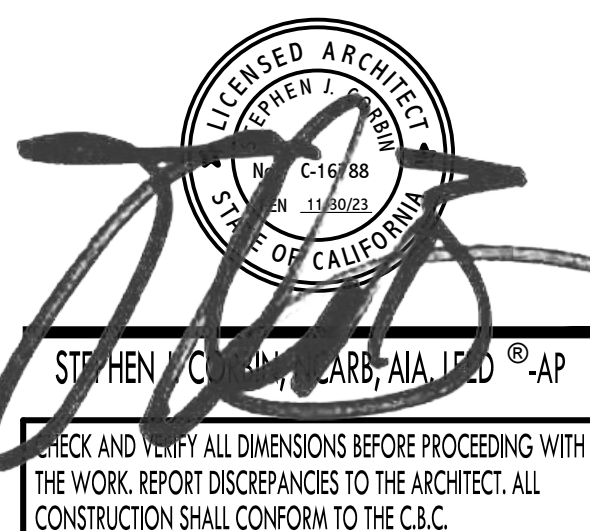
PTN: 38321-389

FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM



REFLECTED
CEILING PLAN
BUILDING 'A' &
PARTIAL CEILING
JOIST PLAN

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.	1317
DRAWN :	ED, FS
CHECKED :	BCW
DATE :	5/31/23



4.0

REFLECTED CEILING PLAN NOTES:

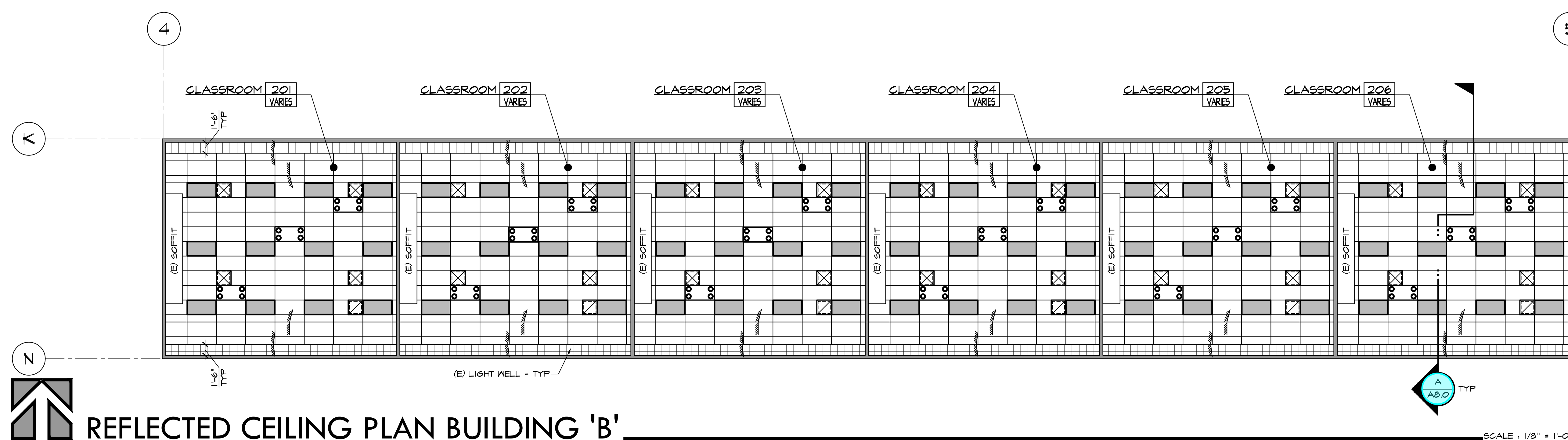
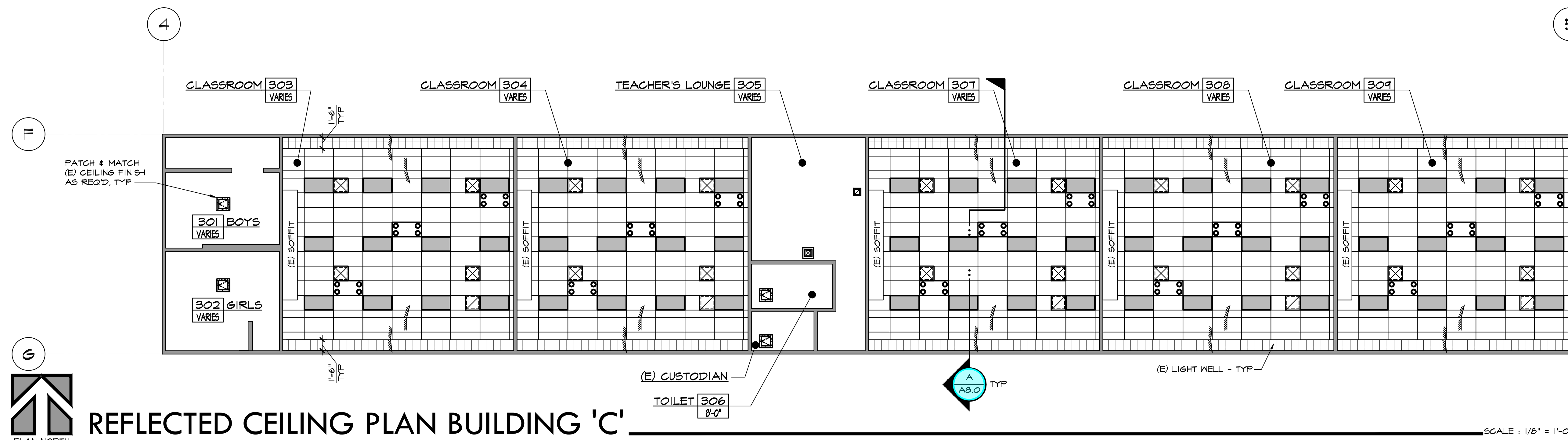
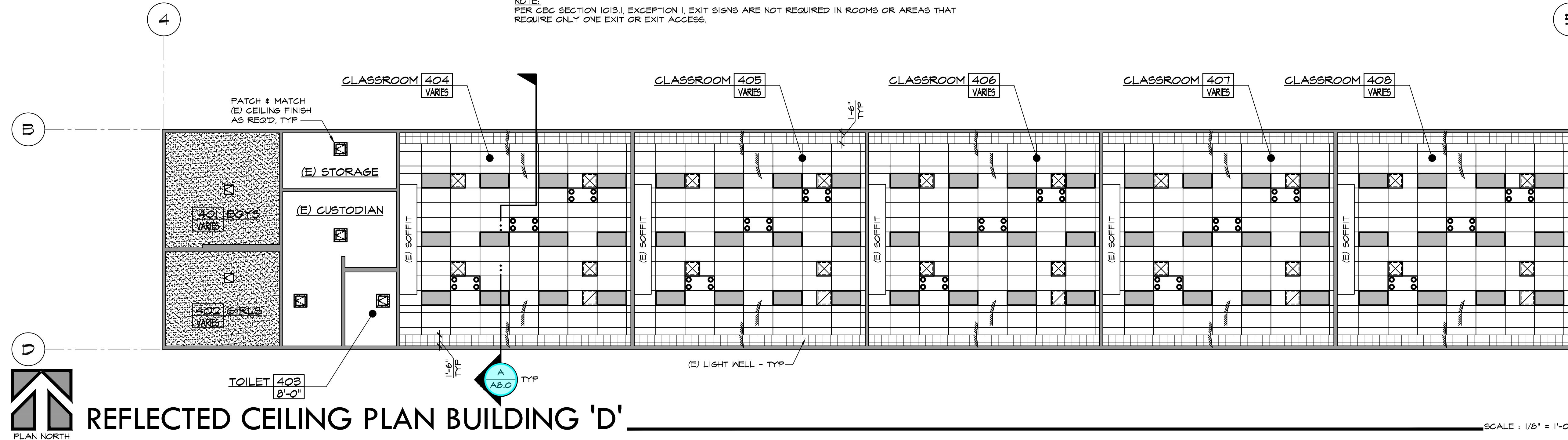
1. SEE ROOM FINISH SCHEDULE FOR CEILING FINISHES.
2. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION.
3. INSULATION PER SPEC BETWEEN (E) FRAMING MEMBERS AT ROOF DECK

OCCUPANTS / # OF EXITS REQ'D						
BLDG #	ROOM #	DESCRIPTION	FLOOR AREA SF PER RM	SF / OCC LOAD PER CBC 2019, TABLE 1004.5		MINIMUM REQUIRED EXIT PER CBC 2019 1006.2.1
				OCC FACTOR	MAXIMUM OCC PER RM	# OF EXITS PROVIDED
B	201 & 206	CLASSROOM	960	20 NET	48	1
	303, 304, 4307 THRU 309	CLASSROOM	960	20 NET	48	1
D	404 THRU 408	CLASSROOM	960	20 NET	48	1

NOTE: PER CBC SECTION 1015.1, EXCEPTION 1, EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR AREAS THAT REQUIRE ONLY ONE EXIT OR EXIT ACCESS.

REFLECTED CEILING LEGEND

- DASHED LINE INDICATES CEILING GRID IS NOT ATTACHED TO WALL, FREE END, REFER TO REFLECTED CEILING PLAN FOR LOCATIONS.
- TYPICAL 12 GA. HANGER WIRES AT ALL CORNERS OF LIGHT FIXTURES AND AIR TERMINALS. SEE DETAIL ON ELEC. DWS.
- MAIN RUNNERS AT 4'-0" OC TYPICAL.
- CROSS RUNNERS AT 2'-0" OC TYPICAL.
- ATTACH CEILING GRID TO TWO ADJACENT WALLS WHERE NO DASHED LINES ARE SHOWN ON REFLECTED CEILING PLAN, FIXED END.
- TYPICAL 12 GA. HANGERS 8" FROM WALLS 4'-0" OC THEREAFTER ATTACHED TO STRUCTURE.
- SPLAY WIRES AND COMPRESSION STRUTS PER DETAIL. SEE DETAIL FOR LOCATIONS.
- 24" X 48" SUSPENDED ACOUSTICAL CEILING SYSTEM SEE DETAILS.
- REINSTALLED (E) RECESSED AIR FILTER SEE ELECTRICAL PLANS
- 2'-0" X 4'-0" RECESSED LIGHT FIXTURE SEE ELECTRICAL PLANS
- 1/2" ACOUSTIC CEILING TILE PER SPEC
- 3/8" TYPE 'X' 6YP BD WITH 1/8" VENEER PLASTER
- CEILING REGISTERS SEE MECHANICAL PLANS
- ACCESS PANEL COORDINATE LOCATION WITH HEAT DETECTOR AS SHOWN ON ELECTRICAL



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PTN: 63321-389 FILE: 15-6

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MODERNIZATION
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FOR
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STEPHEN J. C. ARCHITECT, AIA, LEED®-AP
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.



REFLECTED
CEILING PLANS
BUILDINGS 'B',
'C' & 'D'

MARK	DATE	REVISIONS
△		
△		
△		

JOB NO.
1317
DRAWN:
ED, FS
CHECKED:
BCW
DATE:
5/31/23

4.1
11 OF 67 SHEETS

REFLECTED CEILING PLAN NOTES:

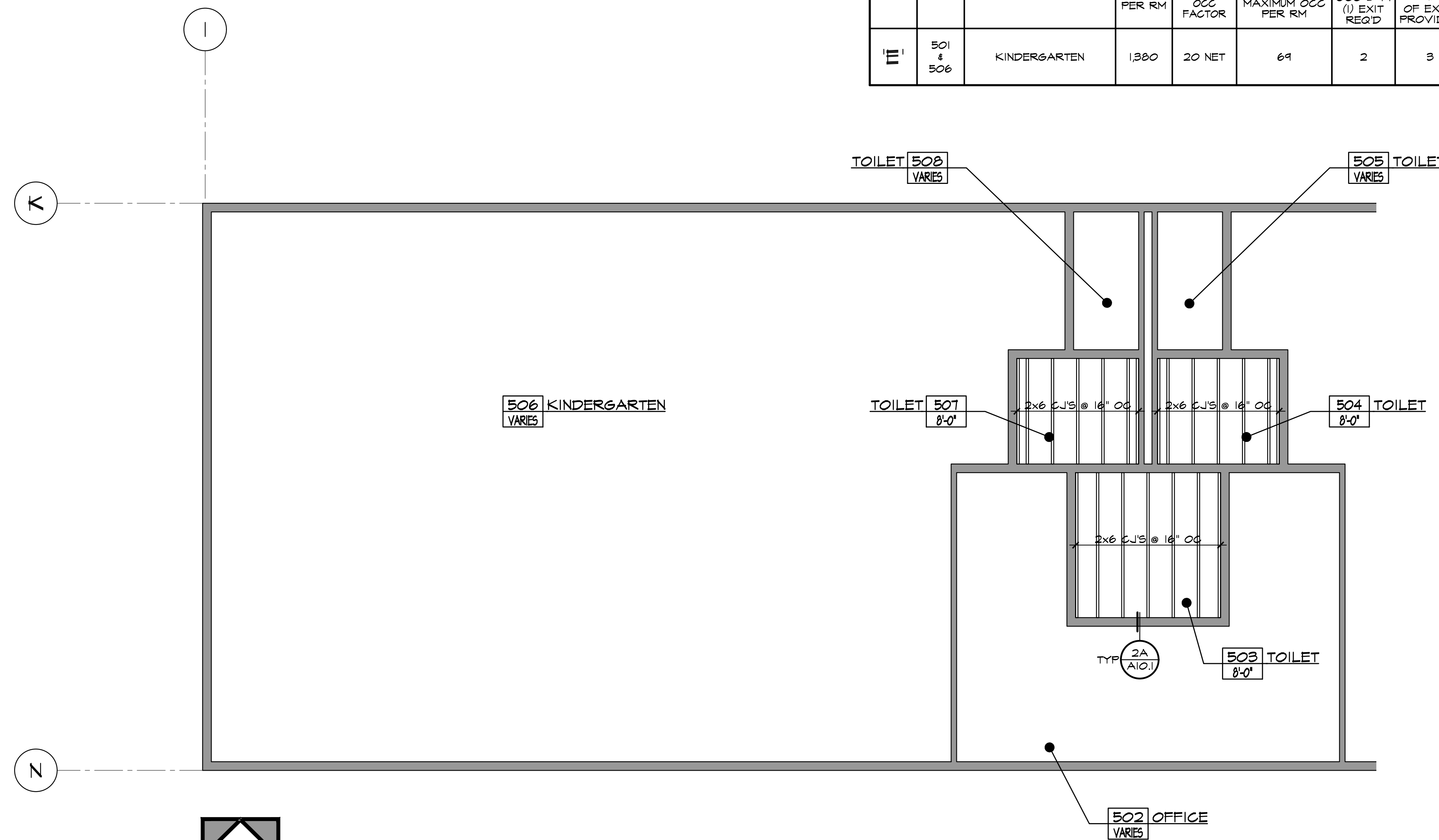
1. SEE ROOM FINISH SCHEDULE FOR CEILING FINISHES.
2. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION.
3. INSULATION PER SPEC BETWEEN (E) FRAMING MEMBERS AT ROOF DECK.

OCCUPANTS / # OF EXITS REQ'D						
BLDG #	ROOM #	DESCRIPTION	FLOOR AREA SF PER RM	SF / OCC LOAD PER CBC 2019, TABLE 1004.5		MINIMUM REQUIRED EXIT PER CBC 2019, (1006.2) OCC ≤ 44' (1) EXIT REQ'D
				OCC FACTOR	MAXIMUM OCC PER RM	
E	501 & 506	KINDERGARTEN	1,380	20 NET	69	2

REFLECTED CEILING LEGEND

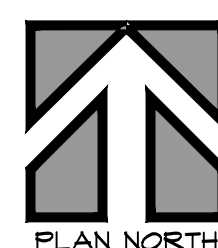
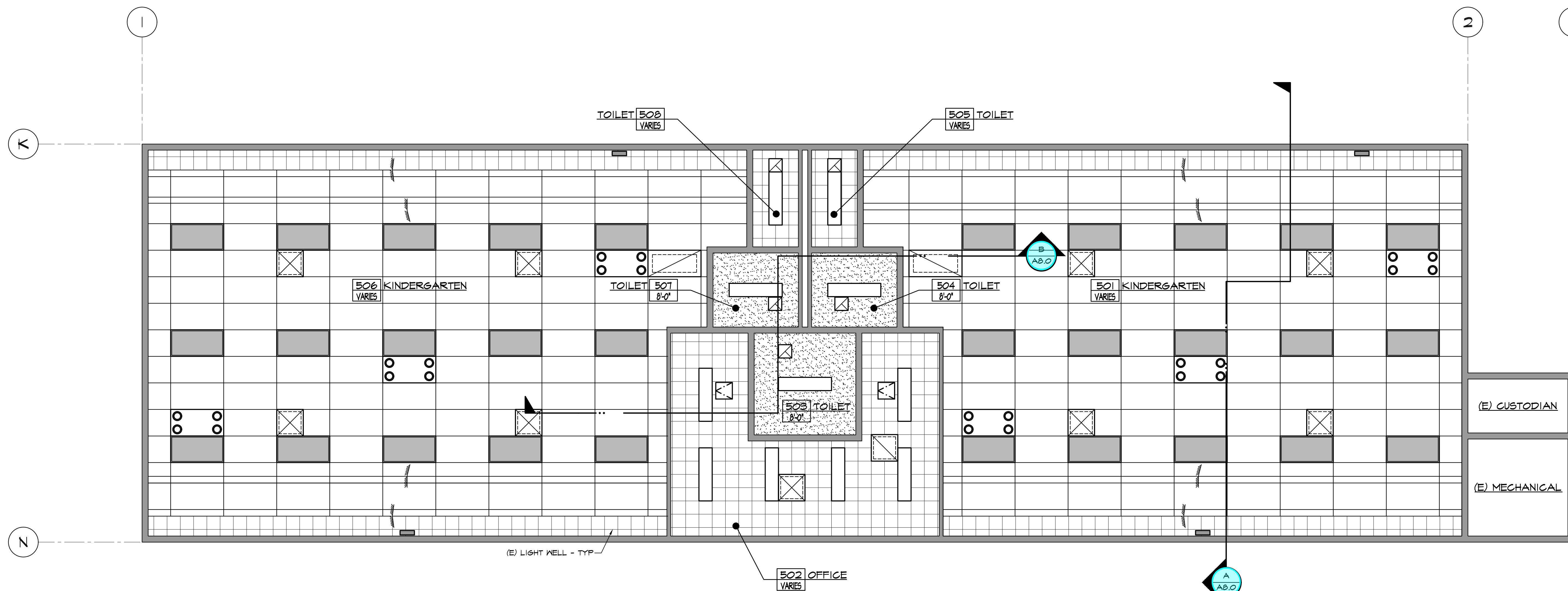
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- TYPICAL 12 GA. HANGER WIRES AT ALL CORNERS OF LIGHT FIXTURES AND AIR TERMINALS. SEE DETAIL ON ELEC. DNGS.
- MAIN RUNNERS AT 4'-0" OC TYPICAL.
- CROSS RUNNERS AT 2'-0" OC TYPICAL.
- ATTACH CEILING GRID TO TWO ADJACENT WALLS WHERE NO DASHED LINES ARE SHOWN ON REFLECTED CEILING PLAN, FIXED END.
- TYPICAL 12 GA. HANGERS 8" FROM WALLS 4'-0" OC THEREAFTER ATTACHED TO STRUCTURE.
- SPLAY WIRES AND COMPRESSION STRUTS PER DETAIL. SEE DETAIL FOR LOCATIONS.
- 24" X 48" SUSPENDED ACOUSTICAL CEILING SYSTEM SEE DETAILS

- REINSTALLED (E) RECESSED AIR FILTER SEE ELECTRICAL PLANS
- 2'-0" X 4'-0" RECESSED LIGHT FIXTURE SEE ELECTRICAL PLANS
- 1'-0" X 4'-0" SURFACE MTD. LIGHT FIXTURE SEE ELECTRICAL PLANS
- 1/2" ACOUSTIC CEILING TILE PER SPEC
- 5/8" TYPE 'X' GYP BD WITH 1/8" VENEER PLASTER
- CEILING REGISTERS SEE MECHANICAL PLANS
- ILLUMINATED EXIT SIGN SEE ELECTRICAL PLANS
- ACCESS PANEL COORDINATE LOCATION WITH HEAT DETECTOR AS SHOWN ON ELECTRICAL



PARTIAL CEILING JOIST PLAN

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



REFLECTED CEILING PLAN BUILDING 'E'

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

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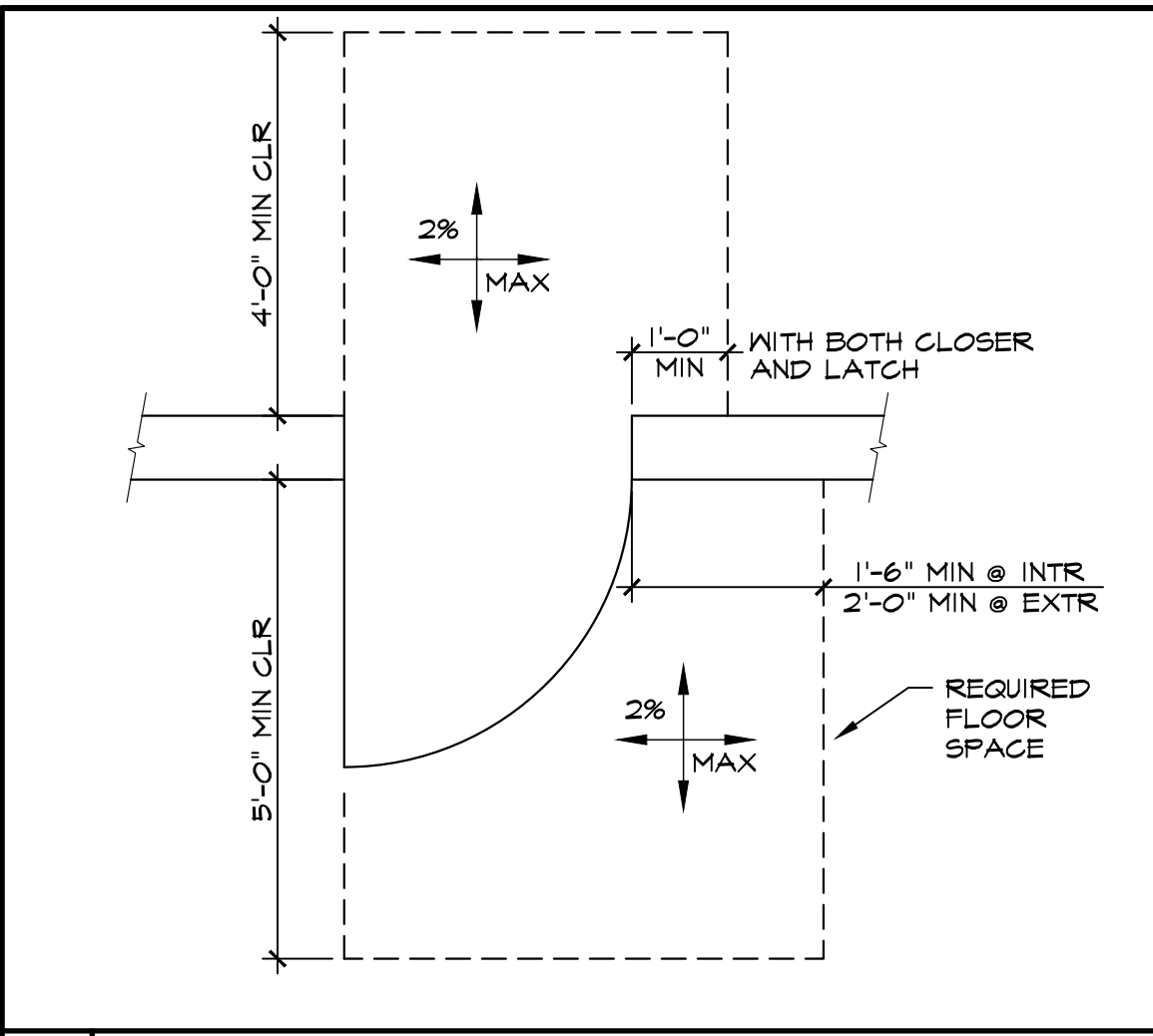


REFLECTED
CEILING PLAN
BUILDING 'E' &
PARTIAL CEILING
JOIST PLAN

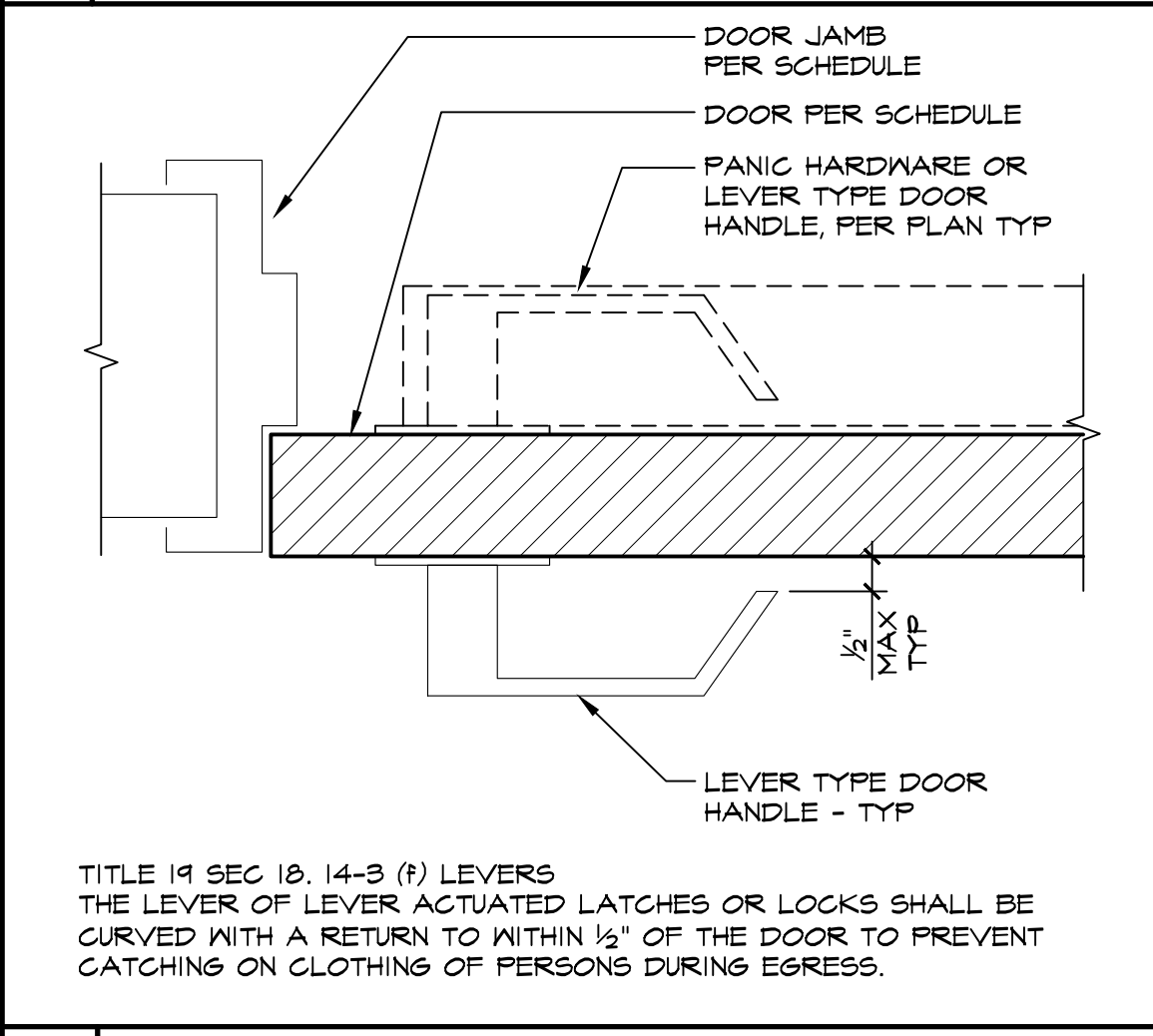
MARK	DATE	REVISIONS
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JOB NO.
1317
DRAWN:
ED, FS
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DATE:
5/31/23

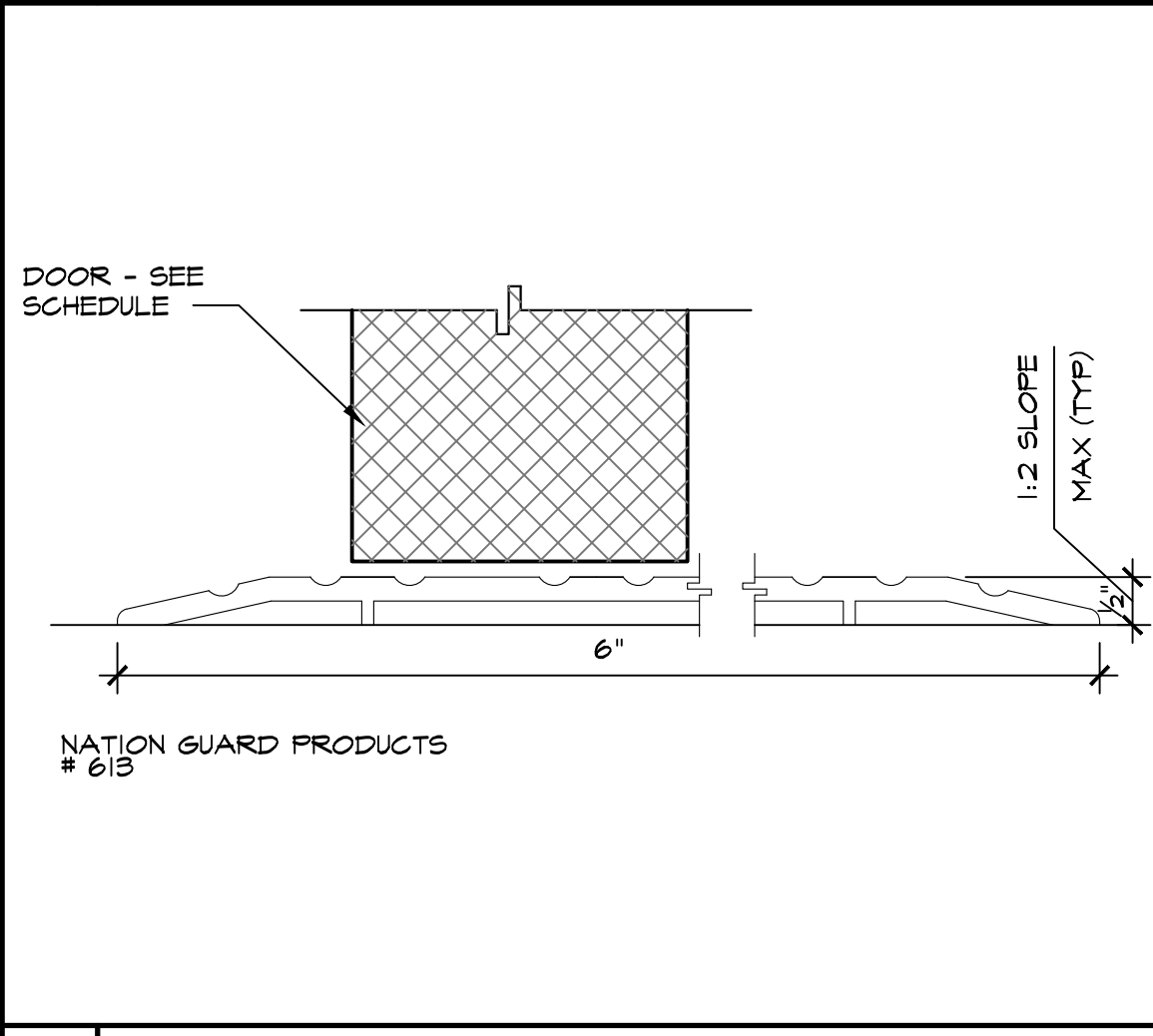
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12 OF 67 SHEETS



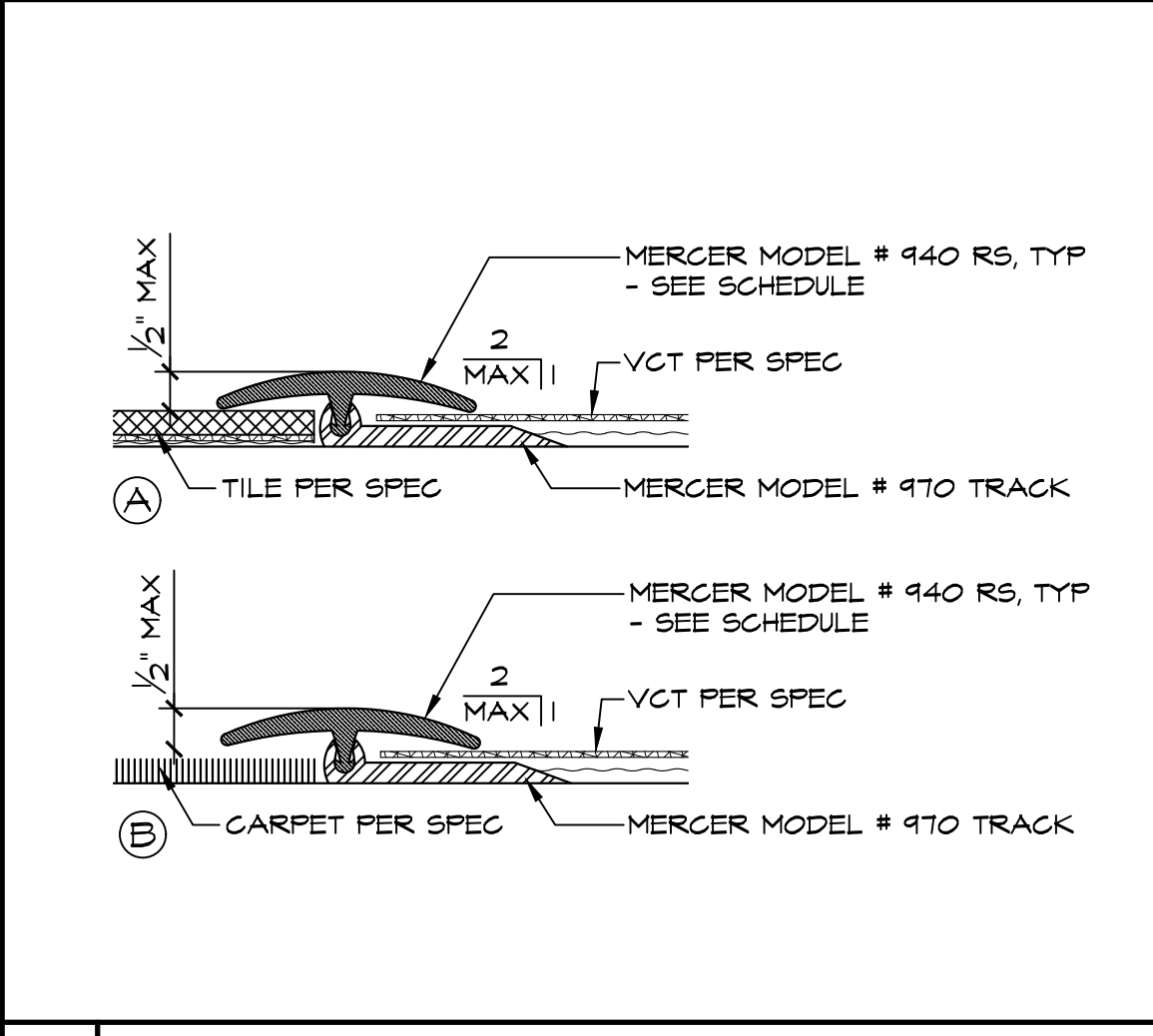
1 REQ'D FLOOR CLEARANCES SCALE: 1/2" = 1'-0"



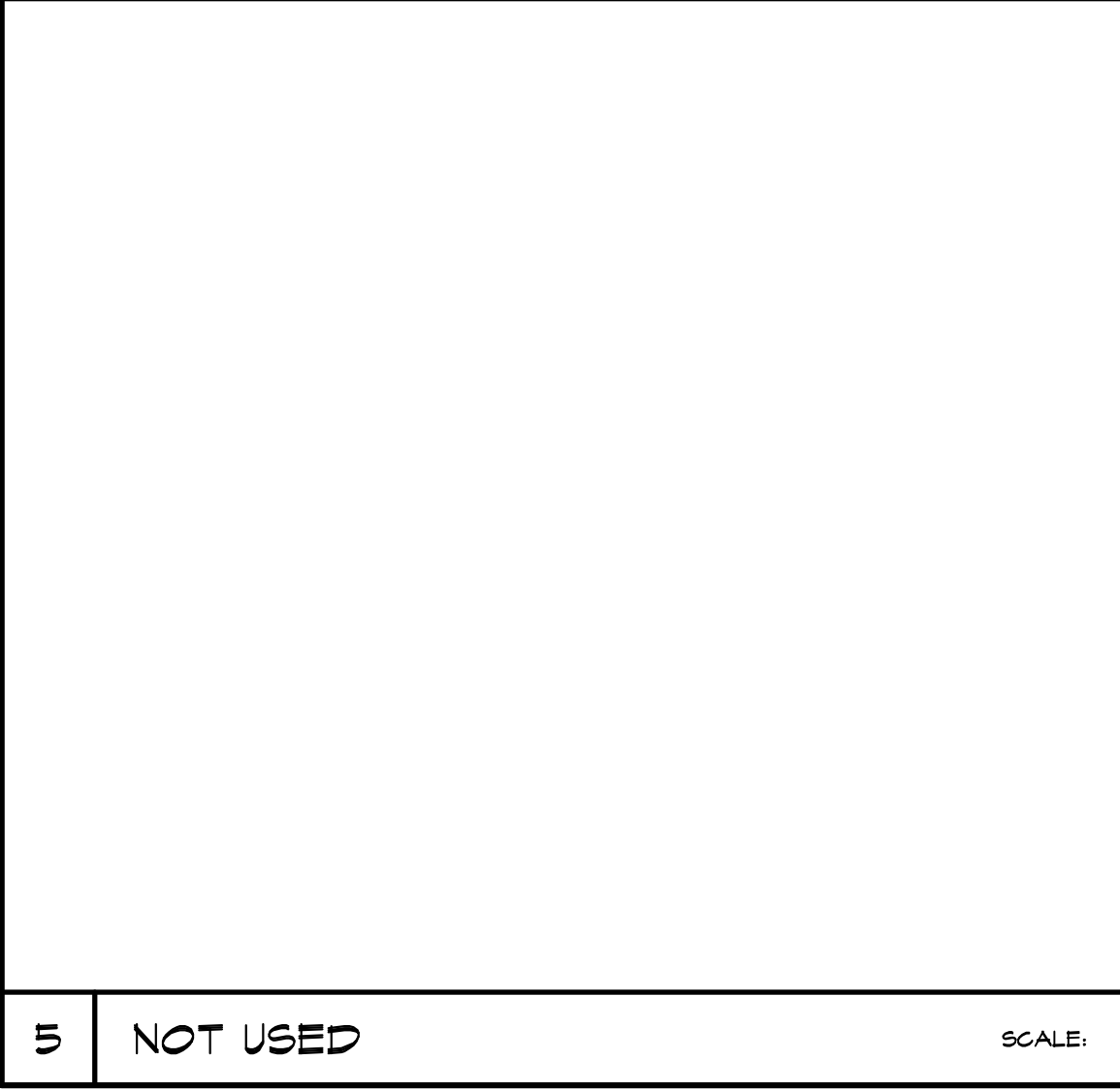
2 DOOR/GATE LEVER SCALE: 3" = 1'-0"



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



4 REDUCER STRIP SCALE: 6" = 1'-0"



5 NOT USED SCALE:

DOOR SCHEDULE

BLDG #	DOOR #	DOOR			LOUVER SIZE	FRAME		RATING	PANIC HDWR	HNDL SET #	DETAILS				REMARKS	SEE TYP DOOR NOTE #S 1,2,3,4,5,6,7,8, 11,12,14,11,18, & 18. ADDITIONAL REQ'S ARE FOR ALL DOORS SCHEDULED.	SIGN TYPE	DOOR #	BLDG #
		TYPE	SIZE (EACH LEAF)	MAT'L		TYPE	MAT'L				L/JAMB	HEAD	R/JAMB	THRESHOLD/RS					
BLDG 'A'	101A	-	(E) 3'-0" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101A	BLDG 'A'
	102A	A	3'-0" X 7'-0"	ND	-	A	HM	-	-	05	20/A101	14/A101	20/A101	4/A5.0	-	-	J/K	102A	
	103A	-	(E) 3'-0" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	103A	
	103B	-	(E) 3'-0" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	103B	
	104A	A	3'-0" X 7'-0"	ND	-	A	HM	20 MIN	-	06	20/A101	14/A101	20/A101	4/A5.0	-	-	G/H	104A	
	105A	A	3'-0" X 7'-0"	ND	-	A	HM	20 MIN	-	06	20/A101	14/A101	20/A101	4/A5.0	-	-	E/F	105A	
BLDG 'B'	106A	A	3'-0" X 7'-0"	ND	-	A	HM	20 MIN	-	08	20/A101	14/A101	20/A101	4/A5.0	-	-	A	106A	BLDG 'B'
	201A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	201A	
	201B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	201B	
	202A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	202A	
	202B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	202B	
	203A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	203A	
BLDG 'C'	203B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	203B	BLDG 'C'
	204A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	204A	
	204B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	204B	
	205A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	205A	
	205B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	205B	
	206A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	206A	
BLDG 'D'	206B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	206B	BLDG 'D'
	301A	-	(E) 3'-0" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	E/F	301A	
	302A	-	(E) 3'-0" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	G/H	302A	
	303A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	303A	
	303B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	303B	
	304A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	304A	
BLDG 'E'	304B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	304B	BLDG 'E'
	305A	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	A/B	305A	
	305B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	305B	
	306A	-	(E) 3'-0" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	J/E/K	306A	
	307A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	307A	
	307B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	307B	
BLDG 'F'	308A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	308A	BLDG 'F'
	308B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	308B	
	309A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	309A	
	309B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	309B	
	401A	A	3'-0" X 7'-0"	HM	-	A	HM	-	-	07	2/A101	15/A101	21/A101	3/A5.0	-	-	E/F	401A	
	402A	A	3'-0" X 7'-0"	HM	-	A	HM	-	-	07	2/A101	15/A101	21/A101	3/A5.0	-	-	G/H	402A	
BLDG 'G'	403A	-	(E) 3'-0" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	J/E/K	403A	BLDG 'G'
	404A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	404A	
	404B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	404B	
	405A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	405A	
	405B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	405B	
	406A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	406A	
BLDG 'H'	406B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	406B	BLDG 'H'
	407A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	407A	
	407B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	407B	
	408A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	03	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	408A	
	408B	-	(E) 3'-6" X 7'-0"	-	-	-	-	-	-	-	-	-	-	-	-	-	D	408B	
	501A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	PH 01	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	501A	
BLDG 'I'	501B	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	PH 01	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	501B	BLDG 'I'
	501C	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	PH 01	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	501C	
	502A	A	3'-0" X 7'-0"	ND	-	A	HM	-	-	04	20/A101	14/A101	20/A101	4/A5.0	-	-	A/B	502A	
	502B	A	3'-0" X 7'-0"	ND	-	A	HM	-	-	04	20/A101	14/A101	20/A101	4/A5.0	-	-	A/B	502B	
	503A	A	3'-0" X 7'-0"	ND	-	A	HM	-	-	05	20/A101	14/A101	20/A101	4/A5.0	-	-	J/K	503A	
	504A	A	3'-0" X 7'-0"	ND	-	A	HM	-	-	02	20/A101	14/A101	20/A101	4/A5.0	-	-	J/K	504A	
BLDG 'J'	505A	A	3'-0" X 7'-0"	ND	-	A	HM	-	-	02	20/A101	14/A101	20/A101	4/A5.0	-	-	J/K	505A	BLDG 'J'
	506A	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	PH 01	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	506A	
	506B	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	PH 01	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	506B	
	506C	A	3'-6" X 7'-0"	HM	-	A	HM	-	-	PH 01	2/A101	15/A101	21/A101	3/A5.0	-	-	A/B	506C	
	507A	A	3'-0" X 7'-0"	ND	-	A	HM	-	-	02	20/A101	14/A101	20/A101	4/A5.0	-	-	J/K	507A	
	508A	A	3'-0" X 7'-0"	ND	-	A	HM	-	-	02	20/A101	14/A101	20/A101	4/A5.0	-	-	J/K	508A	

ROOM FINISH SCHEDULE

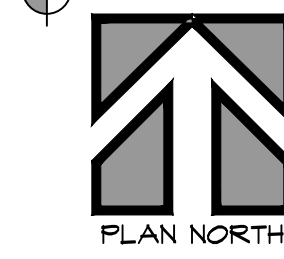
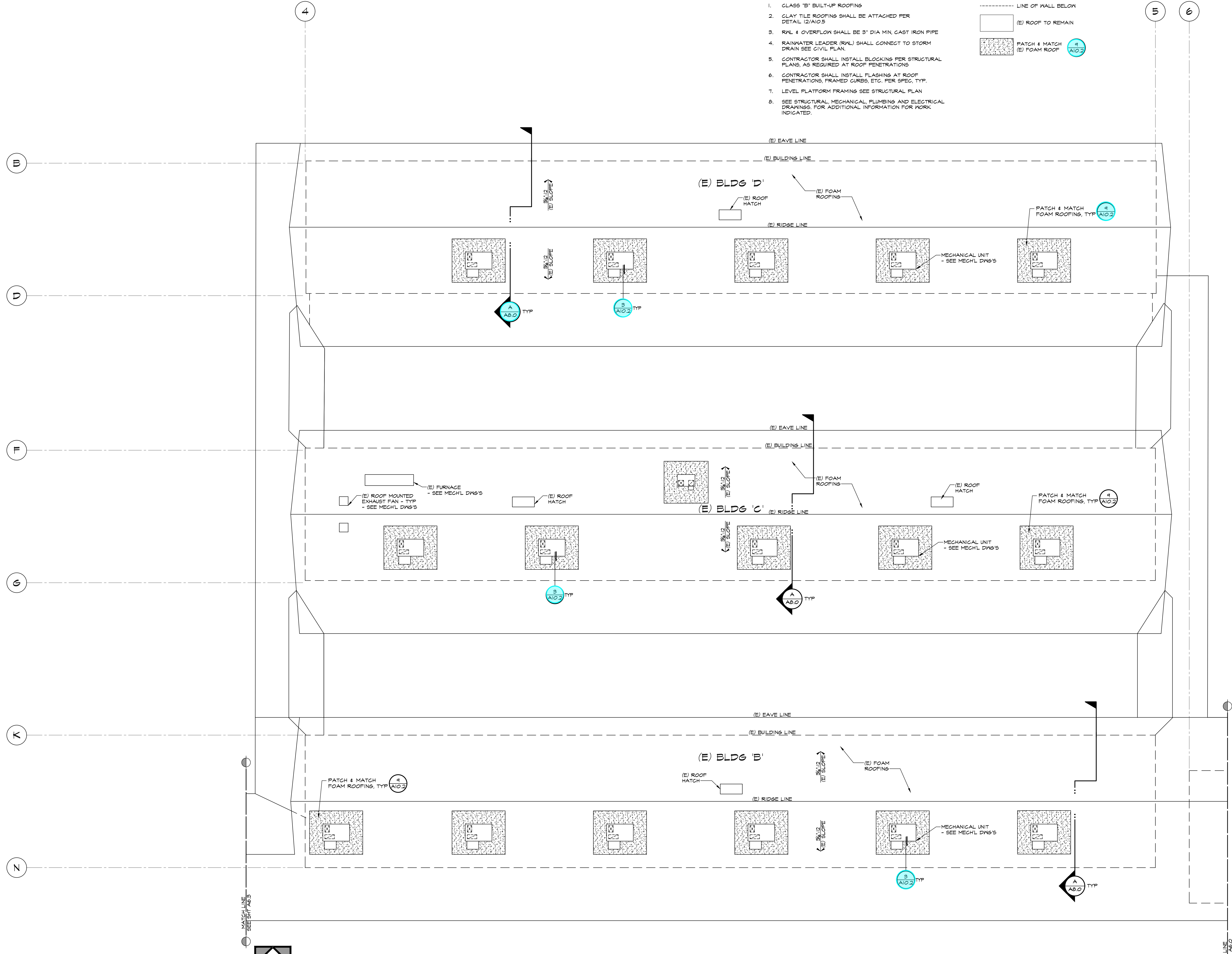
BLDG #	ROOM #	DESCRIPTION	FLOOR	BASE	WALLS				CEILING	HEIGHT	REMARKS	ROOM #	BLDG #
					NORTH	EAST	SOUTH	WEST					
BLDG 'A'	101	HEALTH	1A/1D	1A/1B	1C	4C	9B	1C/4C	1B	9'-0"	Refer to DSA approved drawings, sheet A5.0. Any location that is noted with a wall finish of "2B" are the areas scheduled to receive VCTWB. Primarily, at the North wall of every classroom where the existing unit ventilator was demolished and the wall behind it was in-filled. see also interior elevations A9.1 North Elevation of Room 404 Classroom.	101	BLDG 'A'
	102	TOILET	2B	2B	2B	2B	2B	3C	8'-0"	102			
	103	TEACHER'S	1A	1A/1B	-	-	1C	-	1B	9'-0"		103	
	104	TOILET	3A/3B	2A/2B	3A/3B	3B	3A/3B	-	1A	8'-0"		104	
	105	TOILET	3A/3B	2A/2B	3A/3B	3B	3A/3B	-	1A	8'-0"		105	
	106	CORRIDOR	1A/1D	1B	1C	1C	-	1C	3C	8'-0"		106	
	107	SUPPLIES	-	-	-	-	-	-	1B	9'-0"		107	
	108	LIBRARY	-	-	-	-	-	-	1B	11'-0"		108	
	BLDG 'B'	201	CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B		VARIES	
202		CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	202		
203		CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	203		
204		CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	204		
205		CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	205		
206		CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	206		
BLDG 'C'	301	BOYS	-	-	-	-	-	-	-	VARIES	301	BLDG 'C'	
	302	GIRLS	-	-	-	-	-	-	-	VARIES	302		
	303	CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	303		
	304	CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	304		
	305	TEACHERS LOUNGE	2A/2B	1A/1B	5C	-	-	-	-	VARIES	305		
	306	TOILET	-	-	-	-	-	-	-	8'-0"	306		
	307	CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	307		
	308	CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	308		
	309	CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	309		
BLDG 'D'	401	BOYS	2B	2B	2B	2B	2B	2B	3C	VARIES	401	BLDG 'D'	
	402	GIRLS	2B	2B	2B	2B	2B	2B	3C	VARIES	402		
	403	TOILET	-	-	-	-	-	-	-	8'-0"	403		
	404	CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	404		
	405	CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	405		
	406	CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	406		
	407	CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	407		
	408	CLASSROOM	2A/2B	1A/1B	2A/2B	-	2A	-	1B	VARIES	408		
BLDG 'E'	501	KINDERGARTEN	2A/2B	1A/1B	2A	-	2A	-	1B	VARIES	501	BLDG 'E'	
	502	OFFICE	2B	1B	1C	1C	1C	1C	2B	VARIES	502		
	503	TOILET	2B	2B	2B	2B	2B	2B	3C	8'-0"	503		
	504	TOILET	2B	2B	2B	2B	2B	2B	3C	8'-0"	503A		
	505	TOILET	2B	2B	2B	2B	2B	2B	2B	VARIES	504		
	505A	NASH	2B	1B	2A	-	1C	1C/3B	1B	VARIES	505		
	506	KINDERGARTEN	2A/2B	1A/1B	2A	-	2A	-	1B	VARIES	506		
	507	TOILET	2B	2B	2B	2B	2B	2B	3C	8'-0"	507		
	508	TOILET	2B	2B	2B	2B	2B	2B	2B	VARIES	507A		
	508A	NASH	2B	1B	2A	1C/3B	1C	-	1B	VARIES	508		
	-	-	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-	-	-		
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-	-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	-	-	-			

ROOFING NOTES:

- 1. CLASS 'B' BUILT-UP ROOFING
- 2. CLAY TILE ROOFINGS SHALL BE ATTACHED PER DETAIL 12/A10.5
- 3. RVL & OVERFLOW SHALL BE 3" DIA MIN. CAST IRON PIPE
- 4. RAINWATER LEADER (R/L) SHALL CONNECT TO STORM DRAIN SEE CIVIL PLAN.
- 5. CONTRACTOR SHALL INSTALL BLOCKING PER STRUCTURAL PLANS, AS REQUIRED AT ROOF PENETRATIONS
- 6. CONTRACTOR SHALL INSTALL FLASHING AT ROOF PENETRATIONS, FRAMED CURBS, ETC. PER SPEC, TYP.
- 7. LEVEL PLATFORM FRAMING SEE STRUCTURAL PLAN
- 8. SEE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION FOR WORK INDICATED.

LEGEND:

- LINE OF WALL BELOW
- (E) ROOF TO REMAIN
- PATCH & MATCH (E) FOAM ROOF



PARTIAL ROOF PLAN BUILDING 'B', 'C' & 'D'

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/05/2023

PTN: 63321-389 FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT
S.C. ARCHITECT, INC.

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

STEPHEN J. CARROLL, AIA, LEED®-AP
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.



PARTIAL ROOF PLAN BUILDING 'B', 'C' & 'D'

MARK	DATE	REVISIONS
△		
△		
△		

JOB NO. 1317
DRAWN: ED, FS
CHECKED: BCW
DATE: 4/24/23

6.0
14 OF 67 SHEETS

- ROOFING NOTES:
1. CLASS "B" BUILT-UP ROOFING
 2. CLAY TILE ROOFING SHALL BE ATTACHED PER DETAIL 12/A10.5
 3. RVL & OVERFLOW SHALL BE 3" DIA MIN. CAST IRON PIPE
 4. RAINWATER LEADER (R/L) SHALL CONNECT TO STORM DRAIN SEE CIVIL PLAN.
 5. CONTRACTOR SHALL INSTALL BLOCKING PER STRUCTURAL PLANS, AS REQUIRED AT ROOF PENETRATIONS
 6. CONTRACTOR SHALL INSTALL FLASHING AT ROOF PENETRATIONS, FRAMED CURBS, ETC. PER SPEC, TYP.
 7. LEVEL PLATFORM FRAMING SEE STRUCTURAL PLAN
 8. SEE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS, FOR ADDITIONAL INFORMATION FOR WORK INDICATED.

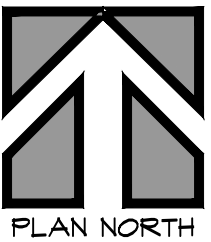
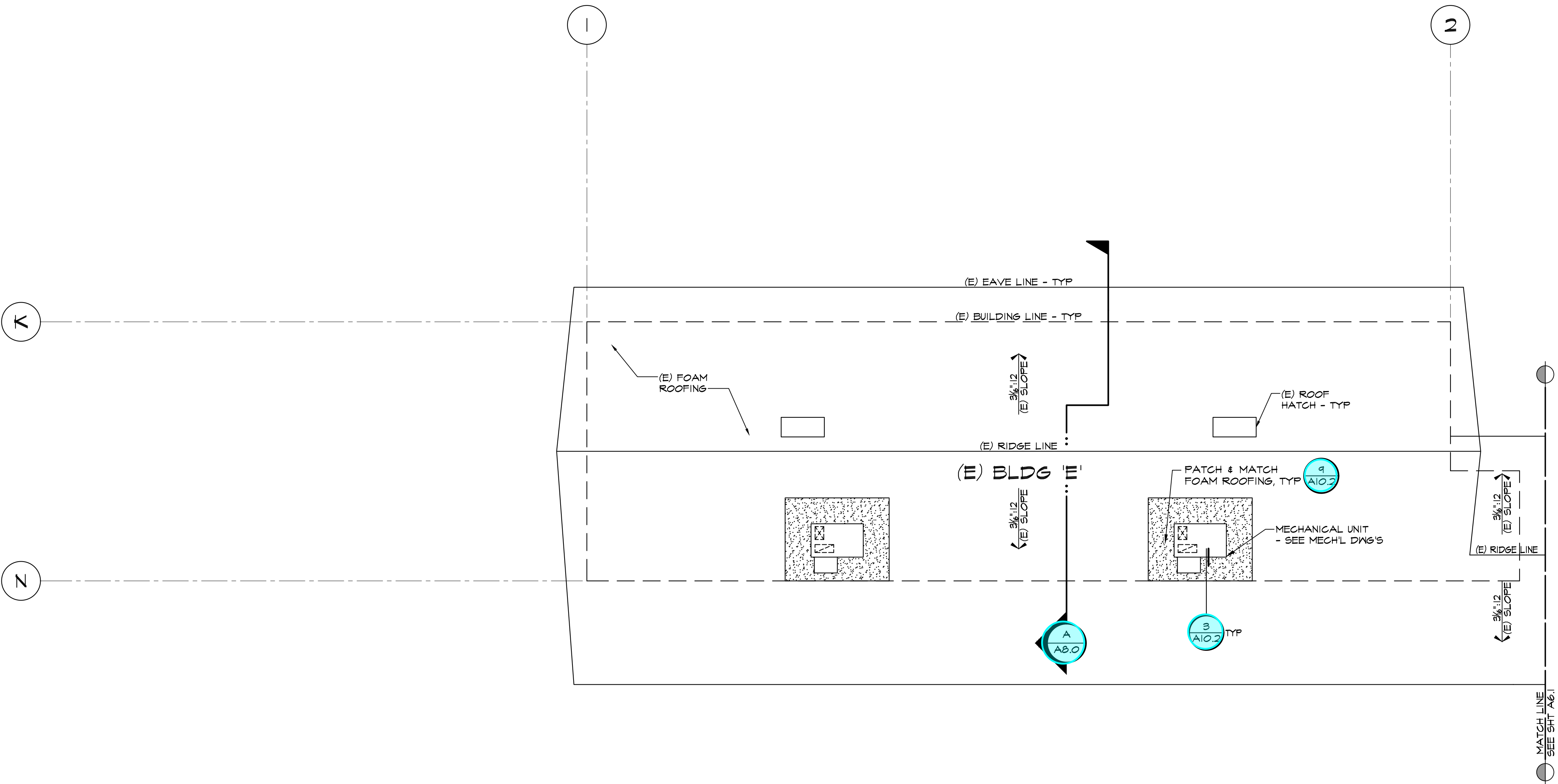
LEGEND:

----- LINE OF WALL BELOW

(E) ROOF TO REMAIN

PATCH & MATCH (E) FOAM ROOF

4 A10.2



PARTIAL ROOF PLAN BUILDING 'E'

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC.
REVIEWED FOR
SS ☐ FLS ☐ ACS ☐
DATE: 07/05/2023

PTN : 63321-389 FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
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PARTIAL ROOF
PLAN BUILDING
'E'

MARK	DATE	REVISIONS
△		
△		
△		

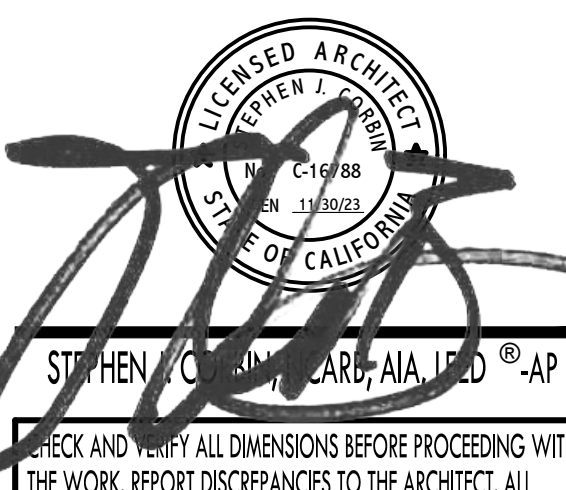
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1317
DRAWN:
ED, FS
CHECKED:
BCW
DATE:
4/24/23

6.1
15 OF 67 SHEETS

ROOSEVELT ELEMENTARY SCHOOL
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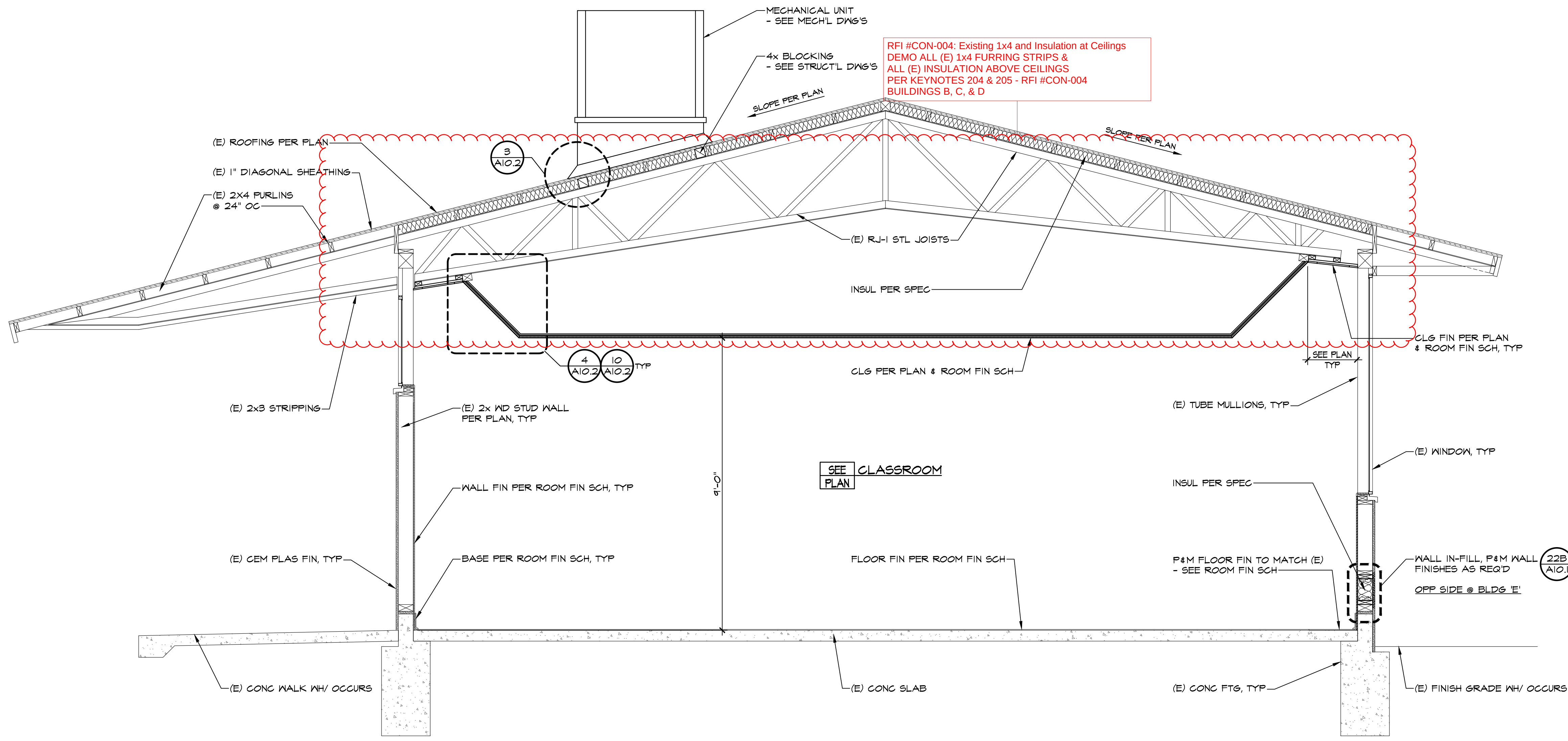


STEPHEN J. CONNER, AIA, LEED AP
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.



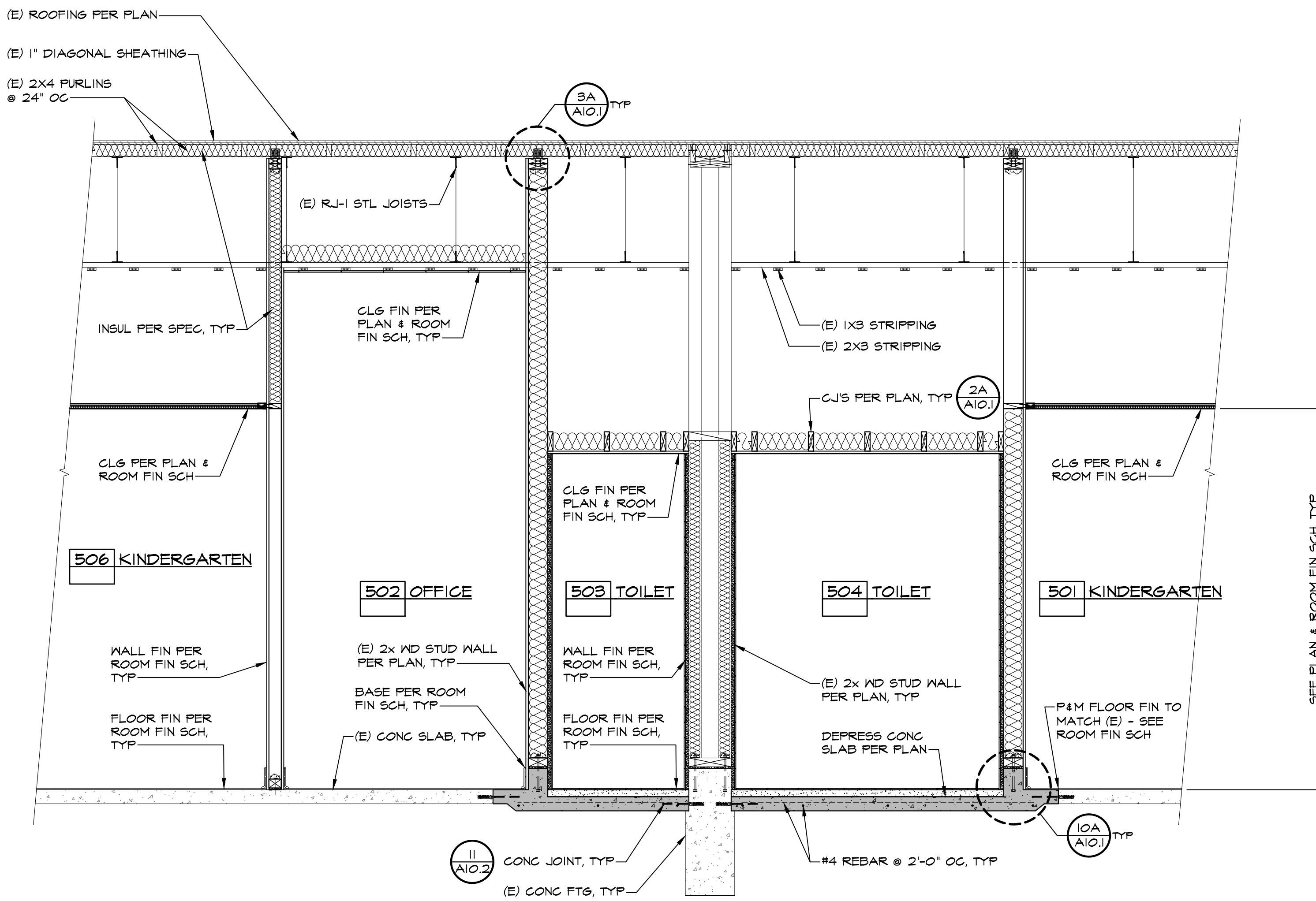
SECTION

MARK	DATE	REVISIONS
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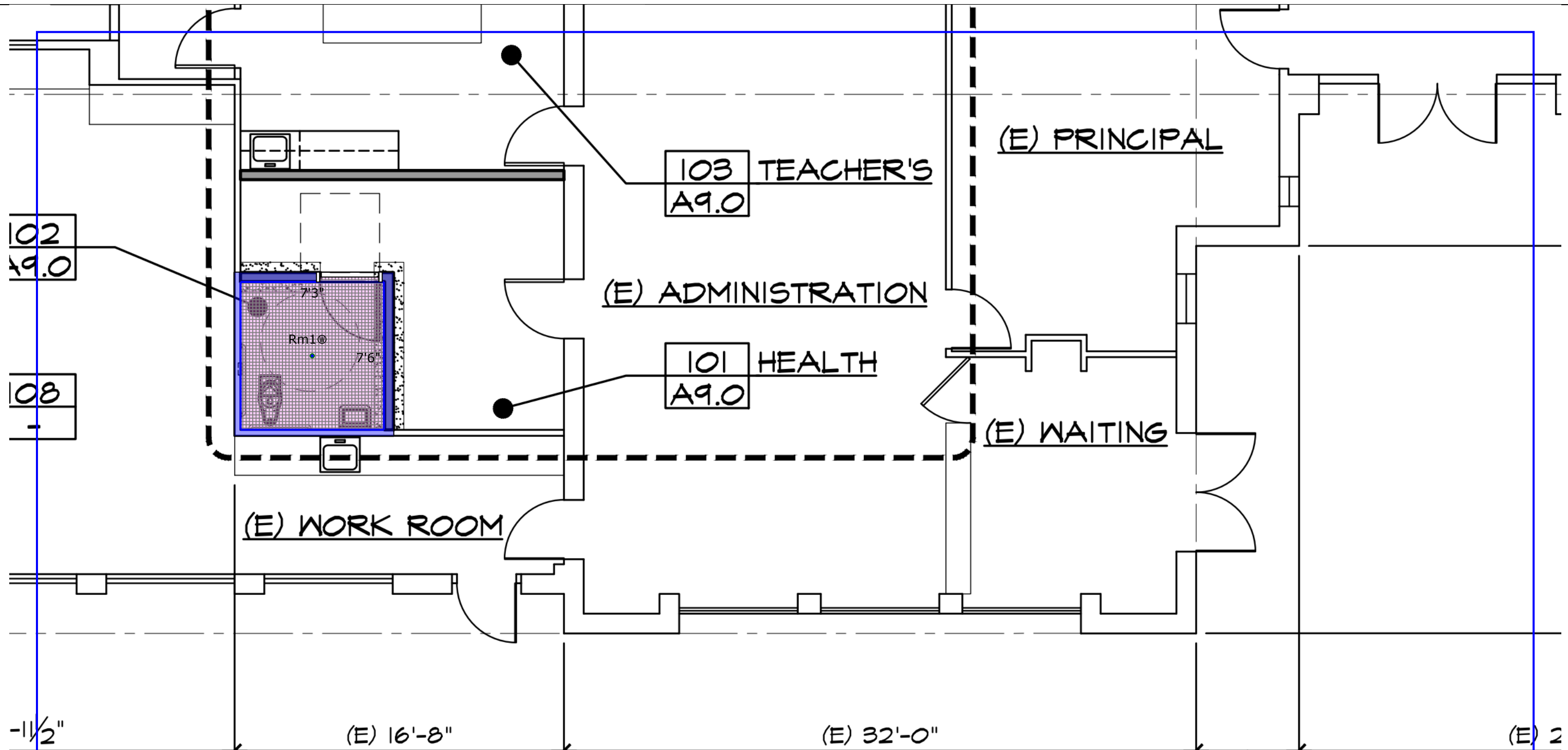
A SECTION

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



B PARTIAL SECTION

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



-  FLOOR TILE - KEYSTONE 2"X2" - COLOR: URBAN PUTTY SPECKLE, GROUT - NEW TAUPE 185
-  TILE BASE - COLOR WHEEL CLASSIC 4.25"X4.25', COLOR: ALMOND 0135, GROUT - SNOW WHITE 11
-  WALL TILE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11

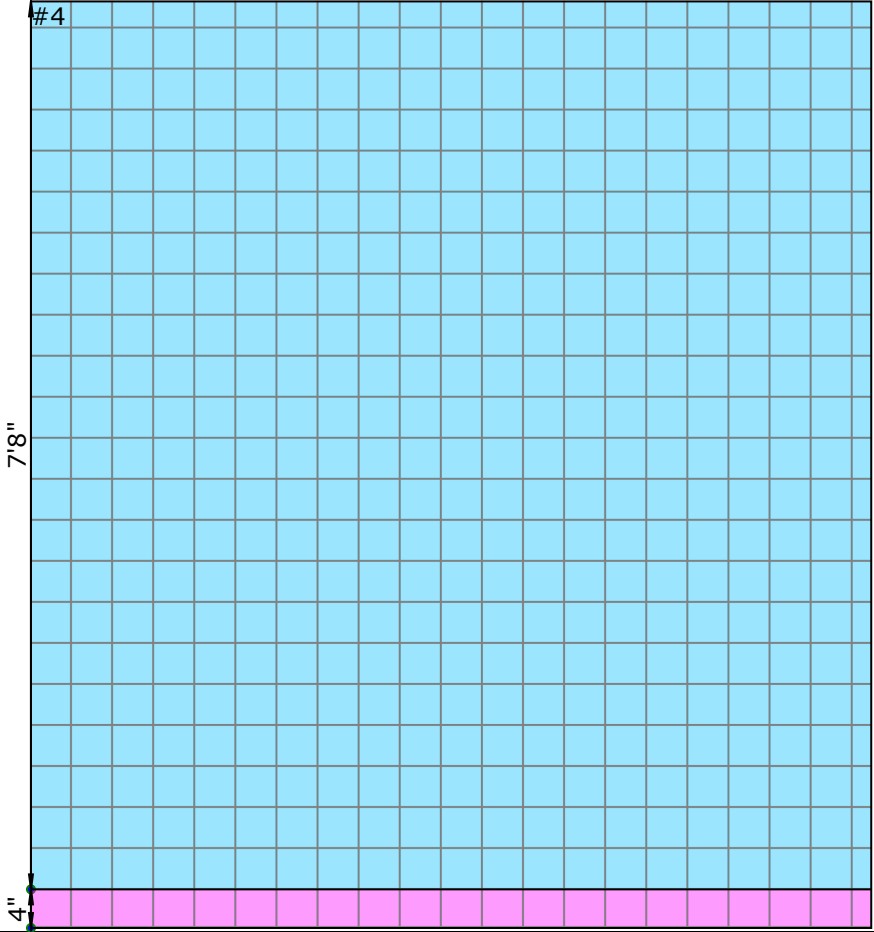
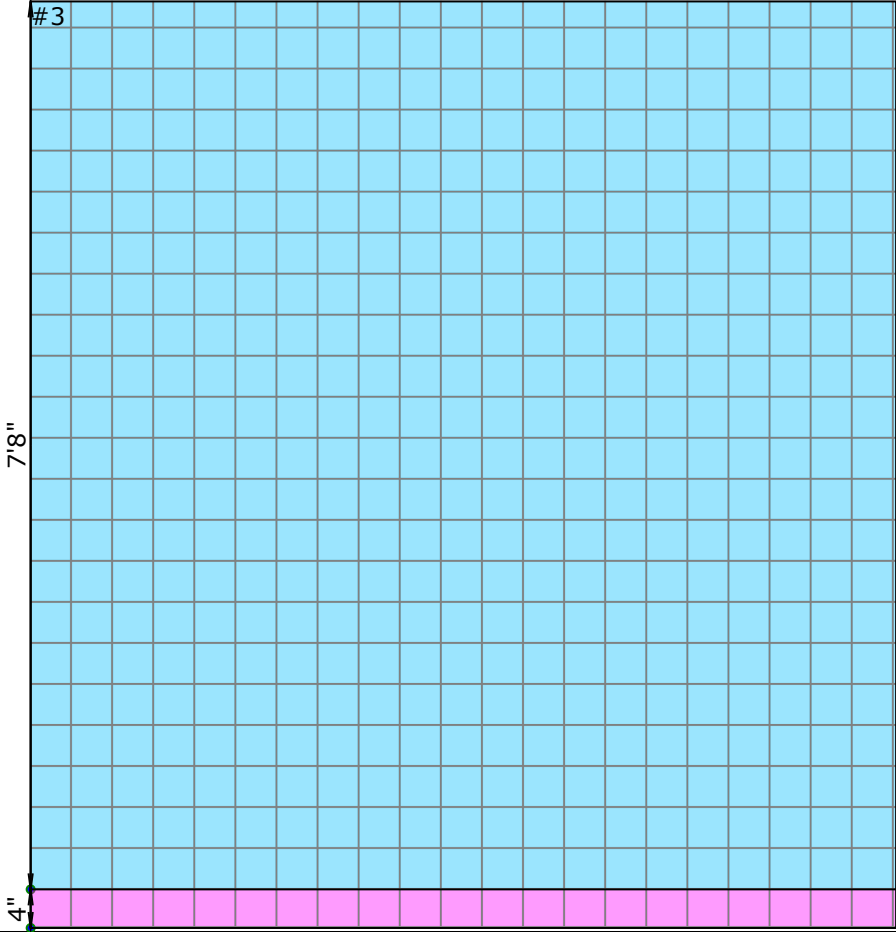
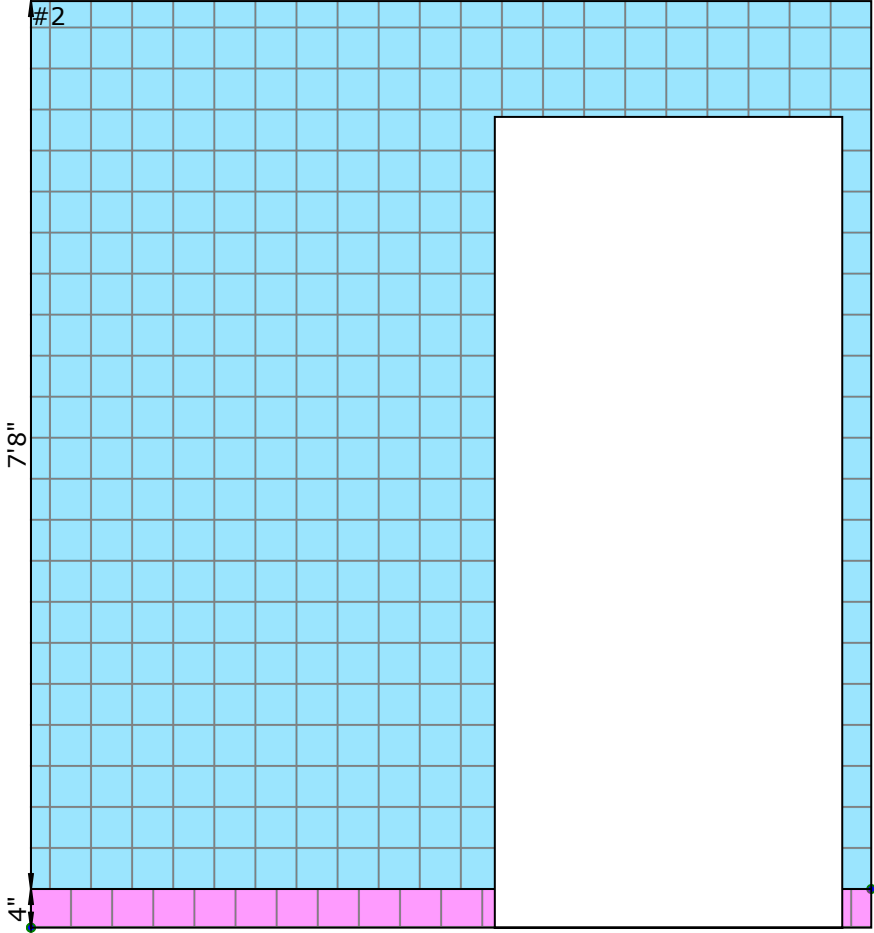
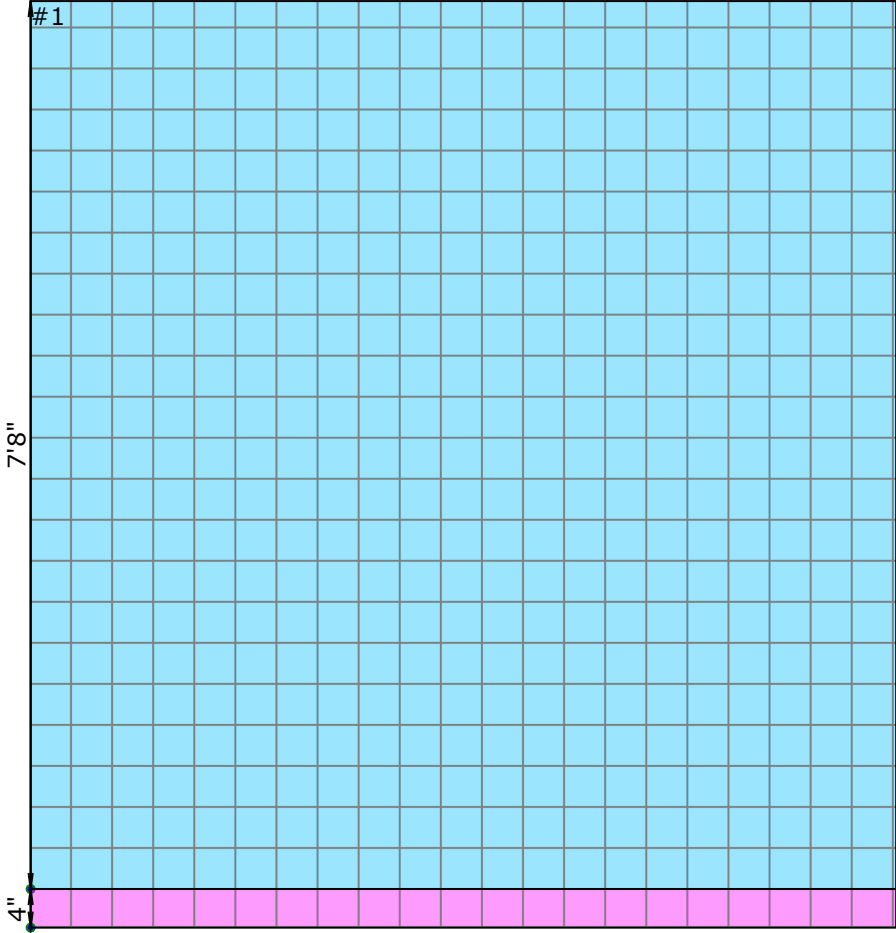
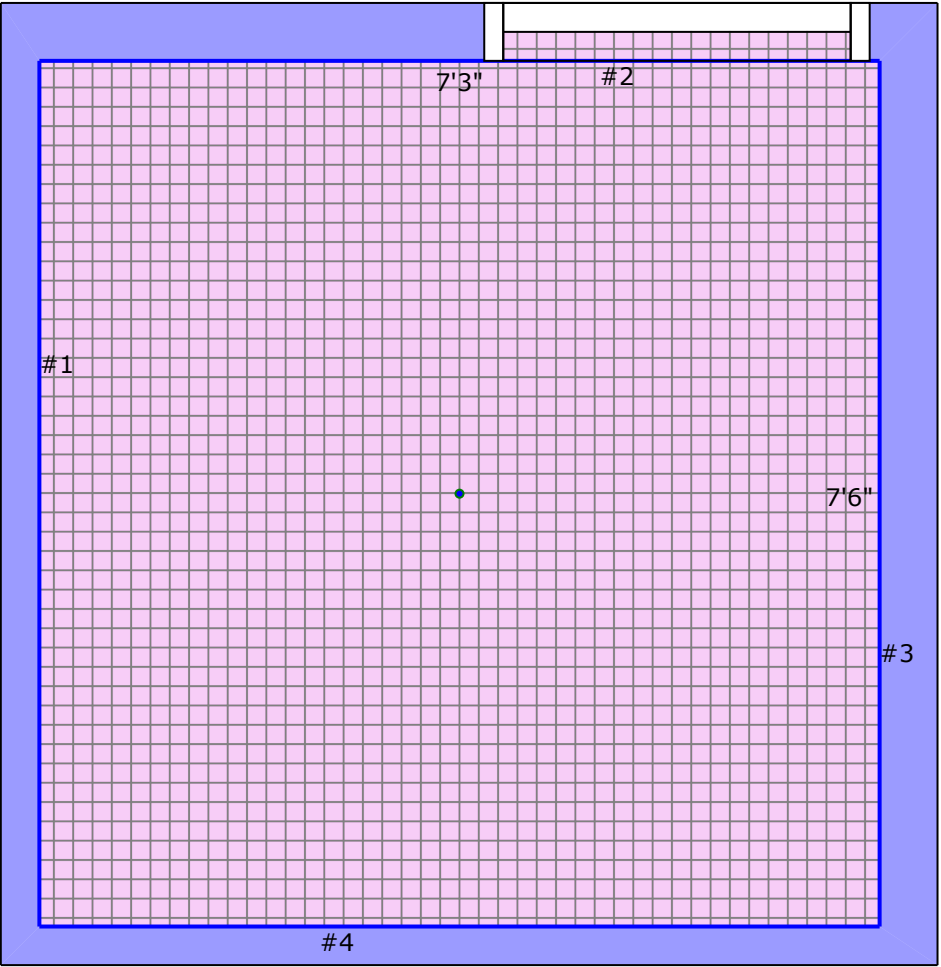
BUILDING 'A'

Rm1

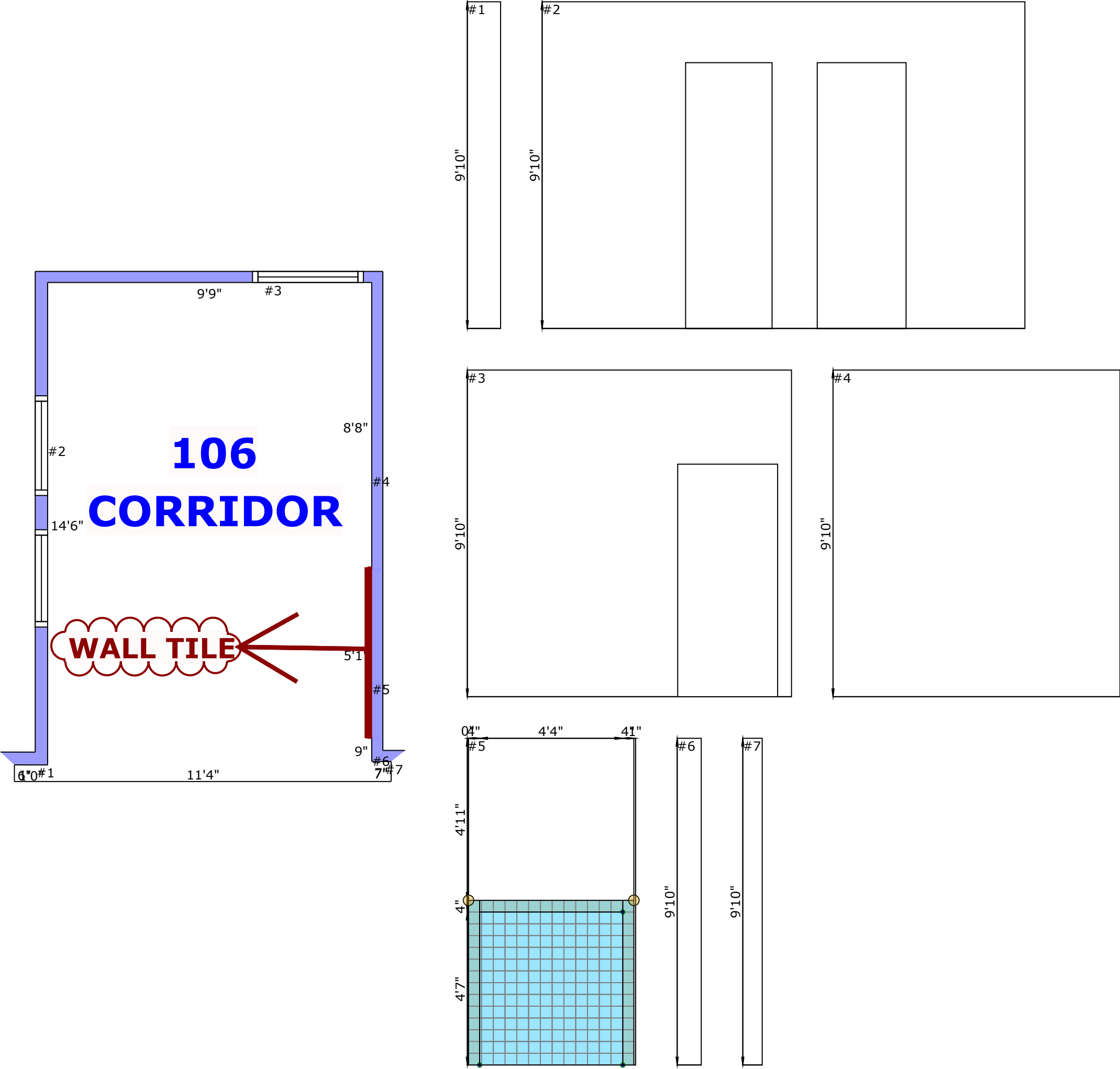
FLOOR TILE - KEYSTONE 2"X2" - COLOR: URBAN PUTTY SPECKLE, GROUT - NEW TAUPE 185

TILE BASE - COLOR WHEEL CLASSIC 4.25"X4.25', COLOR: ALMOND 0135, GROUT - SNOW WHITE 11

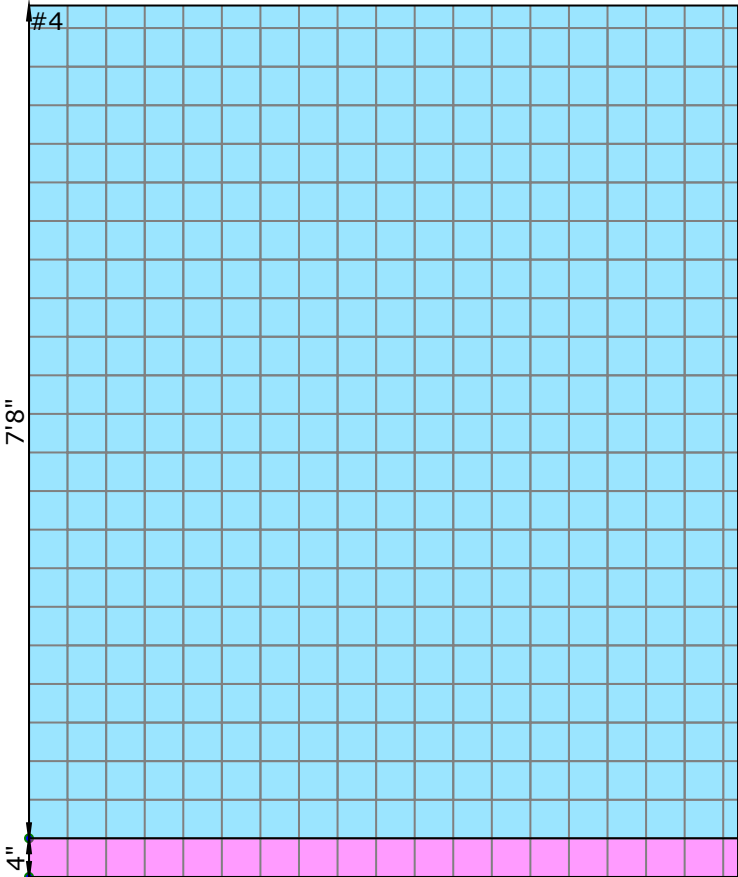
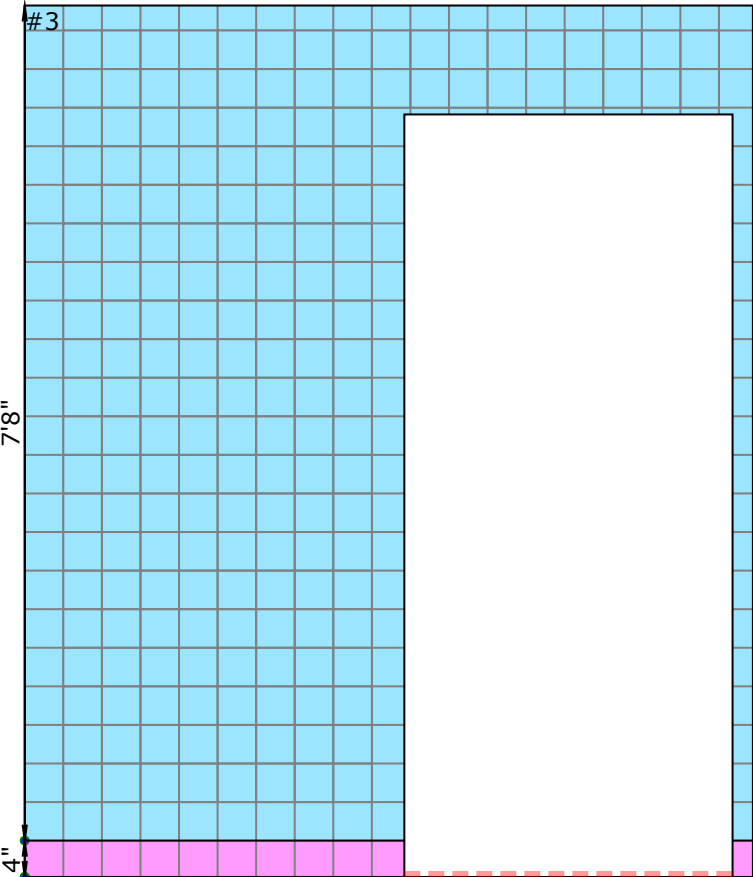
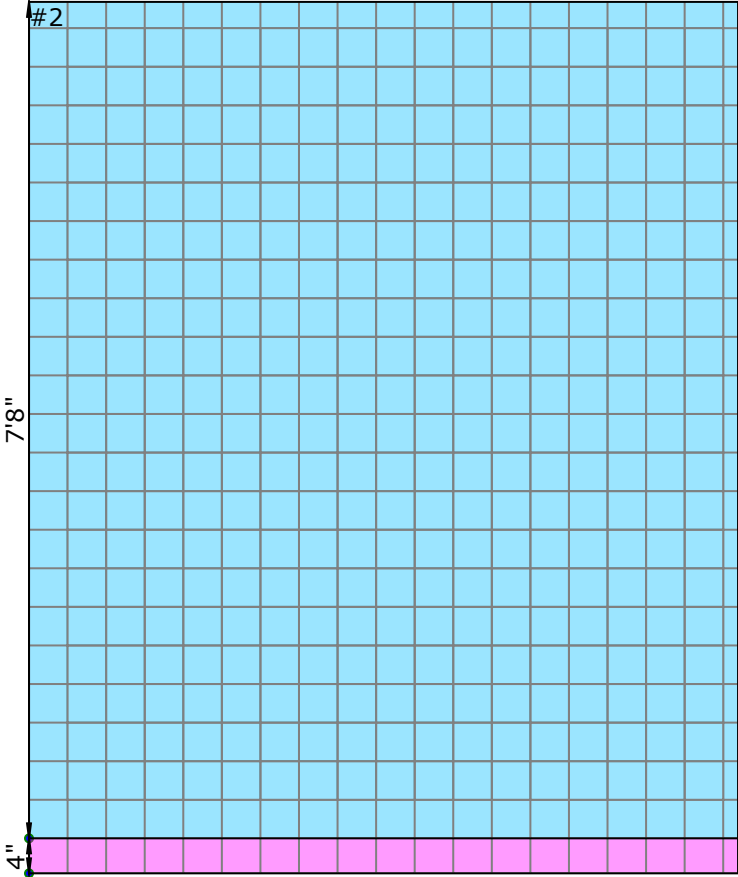
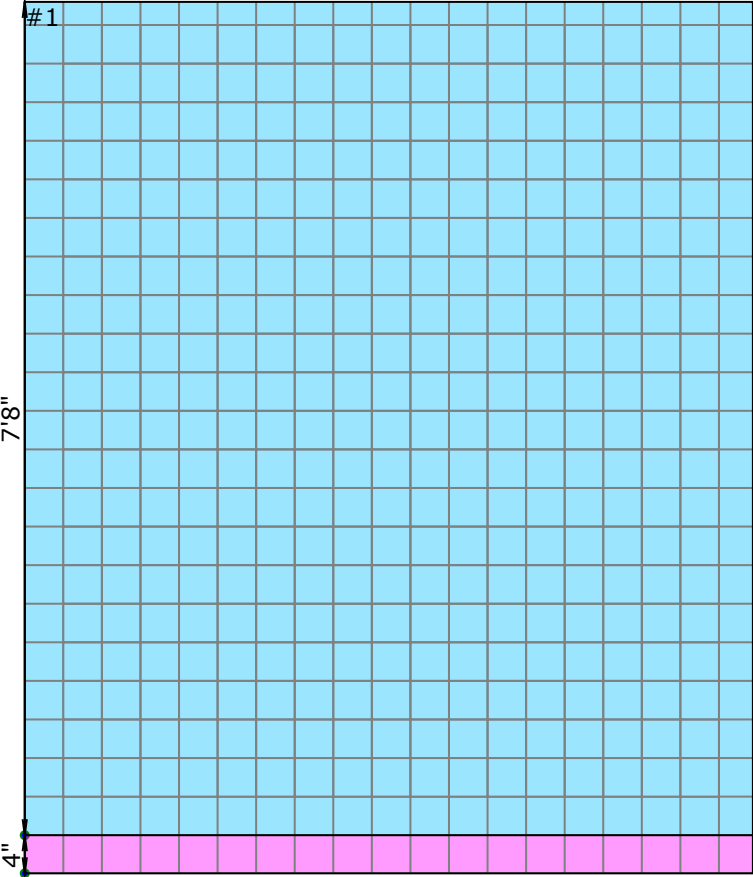
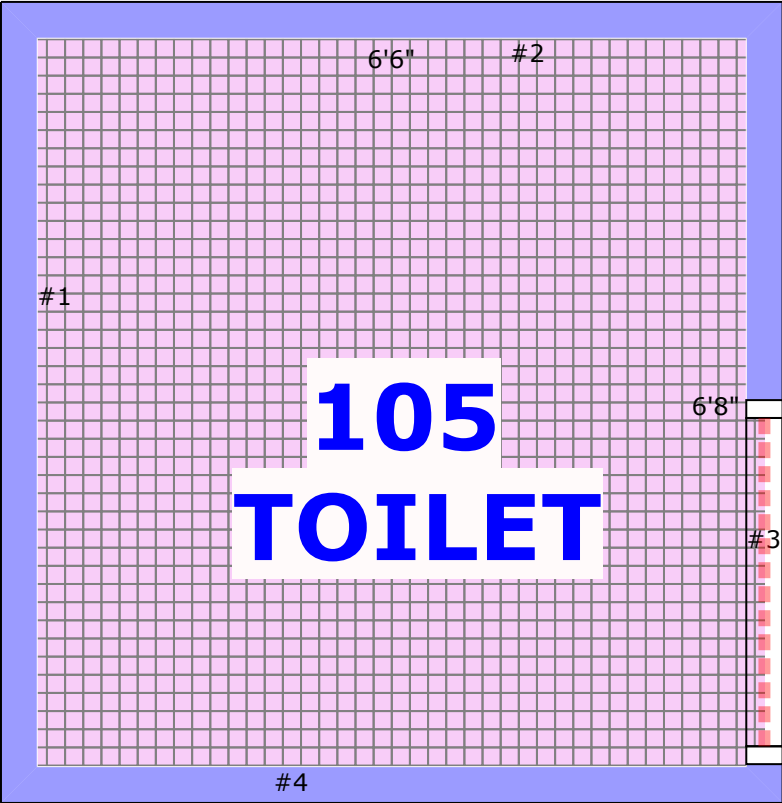
WALL TILE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11



- WALL TILE BULLNOSE- COLOR WHEEL CLASSIC 4.25" X 4.25", COLOR: ALMOND 0135, GROUT- SNOW WHITE 11
- WALL TILE BULLNOSE CORNER- COLOR WHEEL CLASSIC 4.25" X 4.25", COLOR: ALMOND 0135, GROUT- SNOW WHITE 11
- WALL TILE- COLOR WHEEL CLASSIC 4.25" X 4.25", COLOR: ALMOND 0135, GROUT- SNOW WHITE 11



- Rm3
- FLOOR TILE- KEYSTONE 2" X 2"- COLOR: URBAN PUTTY SPECKLE, GROUT- NEW TAUPE 185
- TILE BASE- COLOR WHEEL CLASSIC 4.25" X 4.25", COLOR: ALMOND 0135, GROUT- SNOW WHITE 11
- TRANSITION: CERAMIC TILE TO SHEET VINYL
- WALL TILE- COLOR WHEEL CLASSIC 4.25" X 4.25", COLOR: ALMOND 0135, GROUT- SNOW WHITE 11



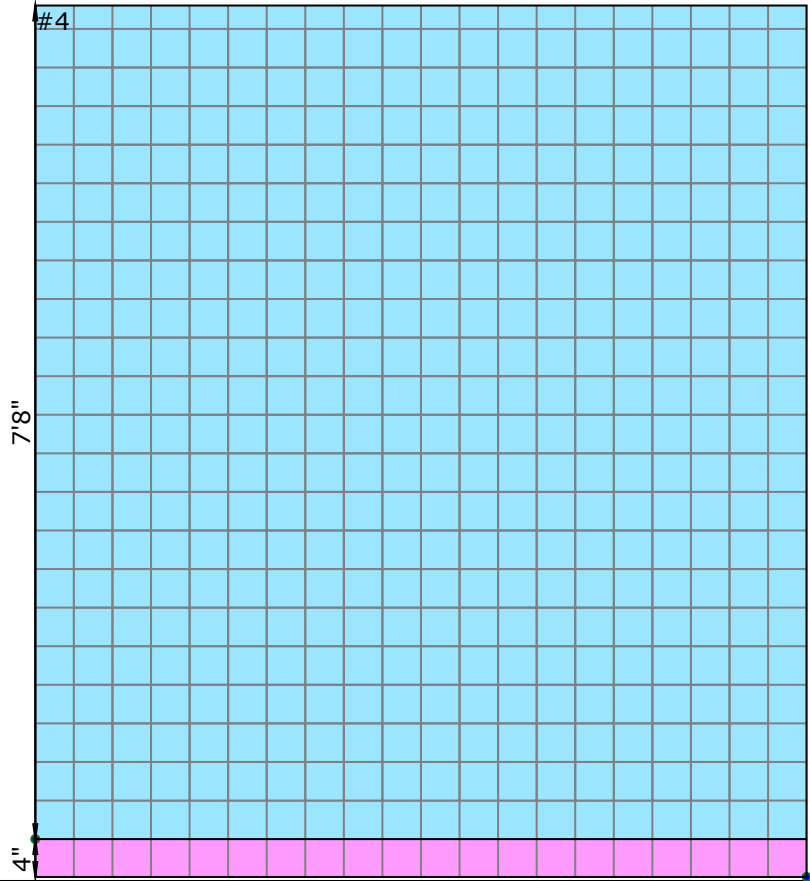
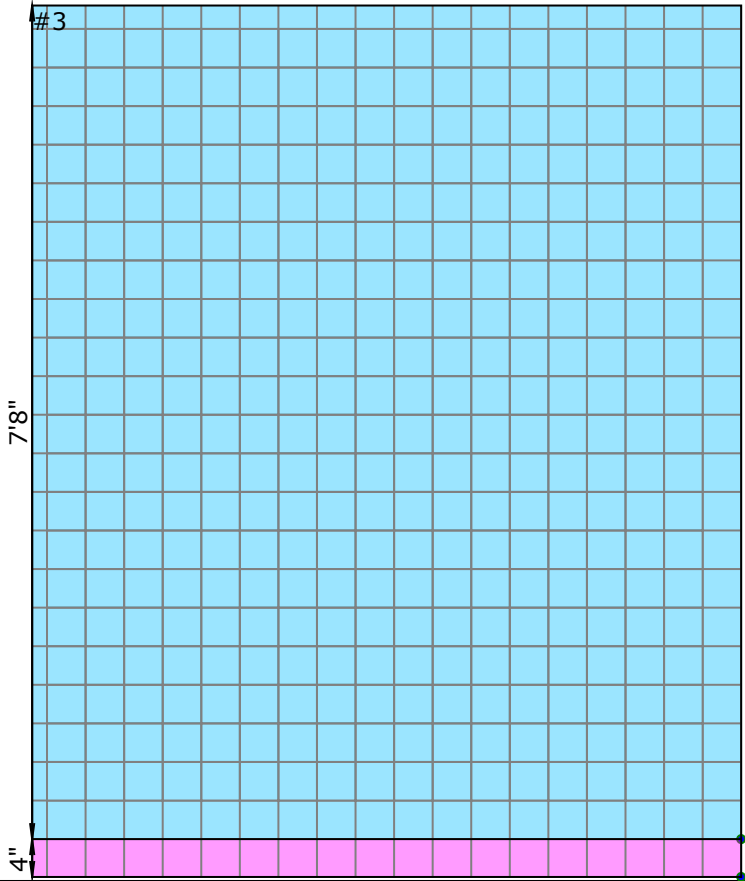
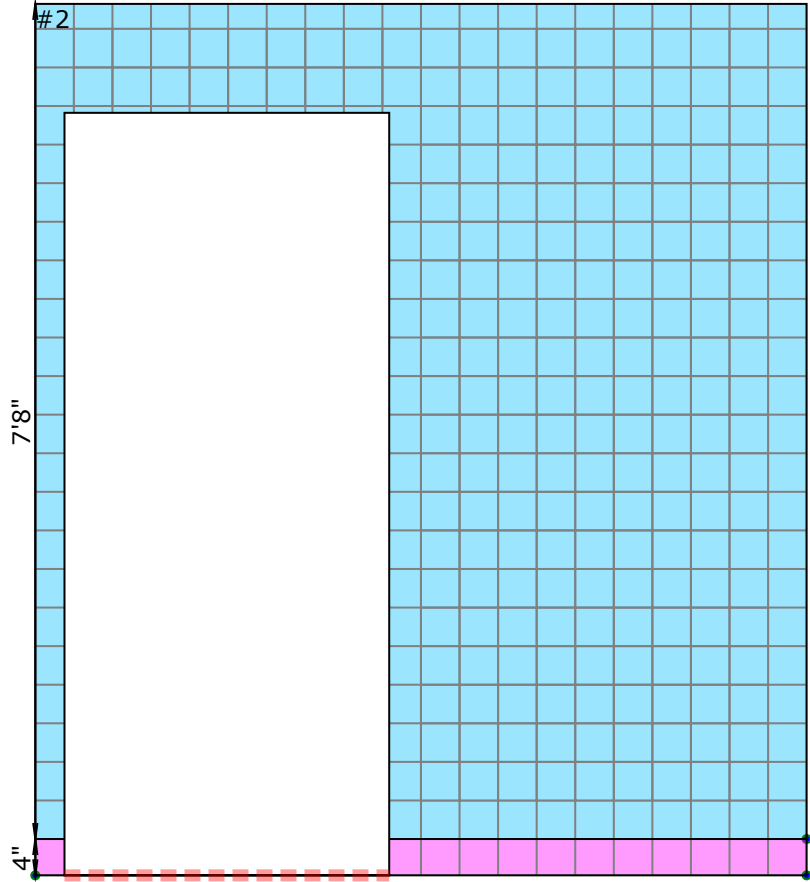
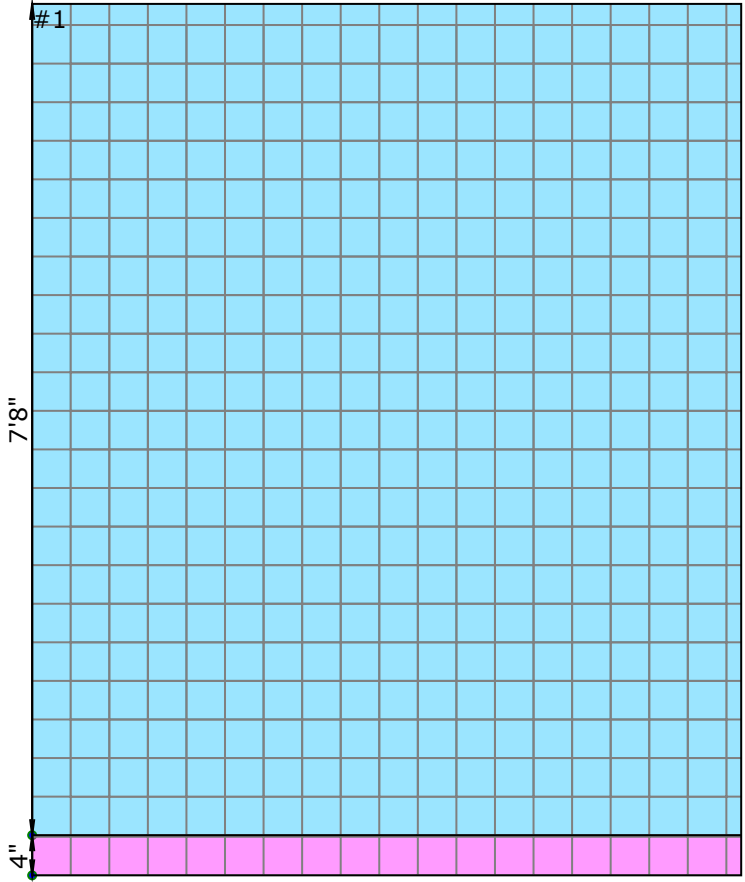
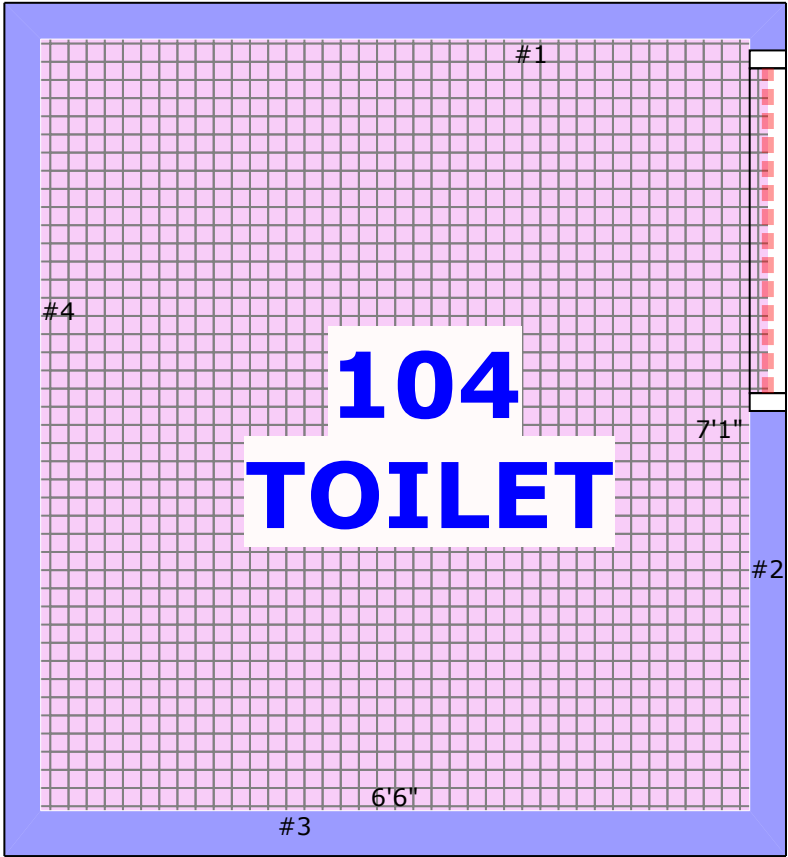
Rm4

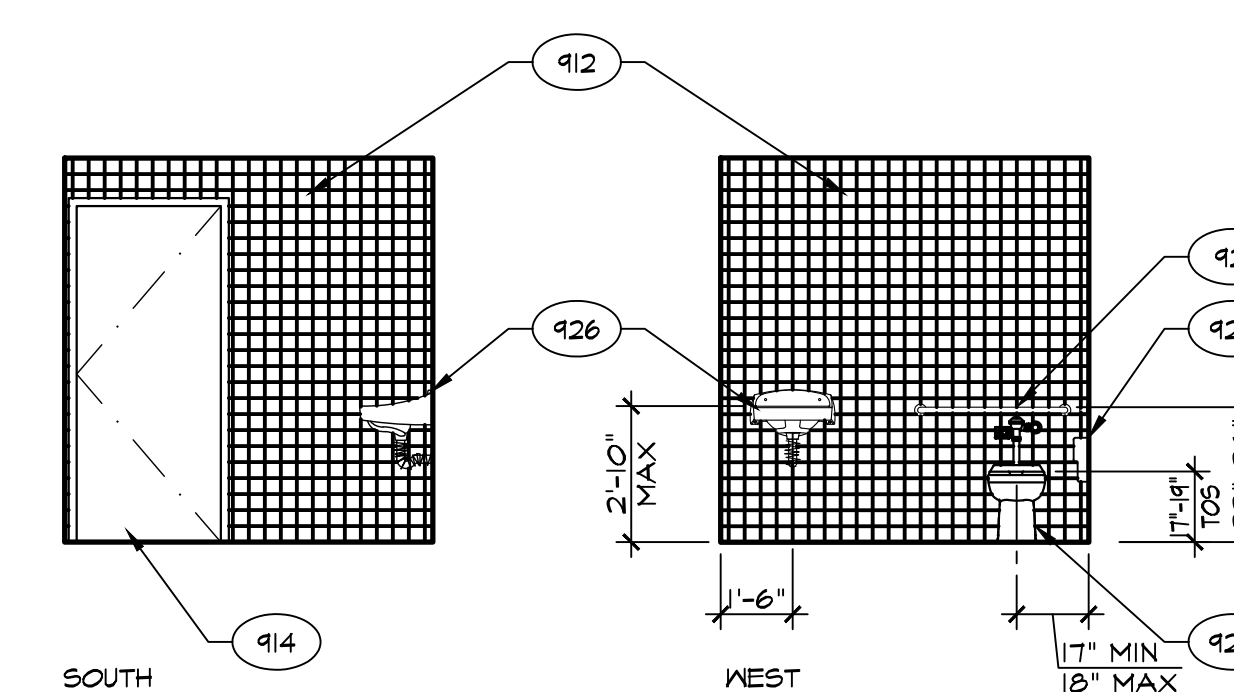
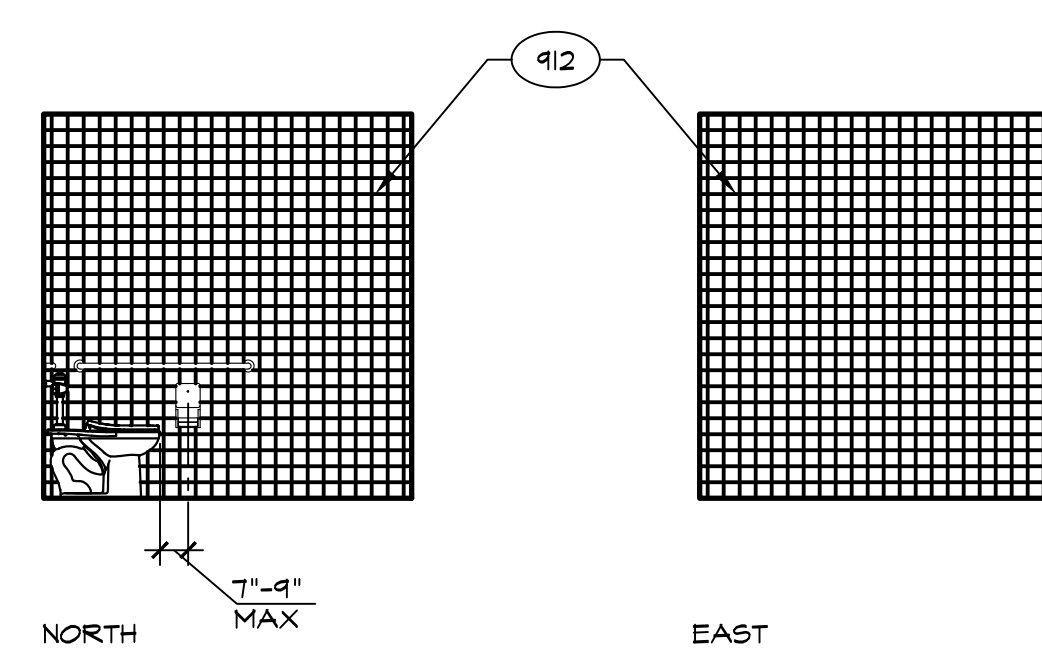
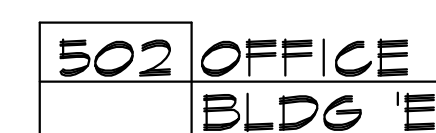
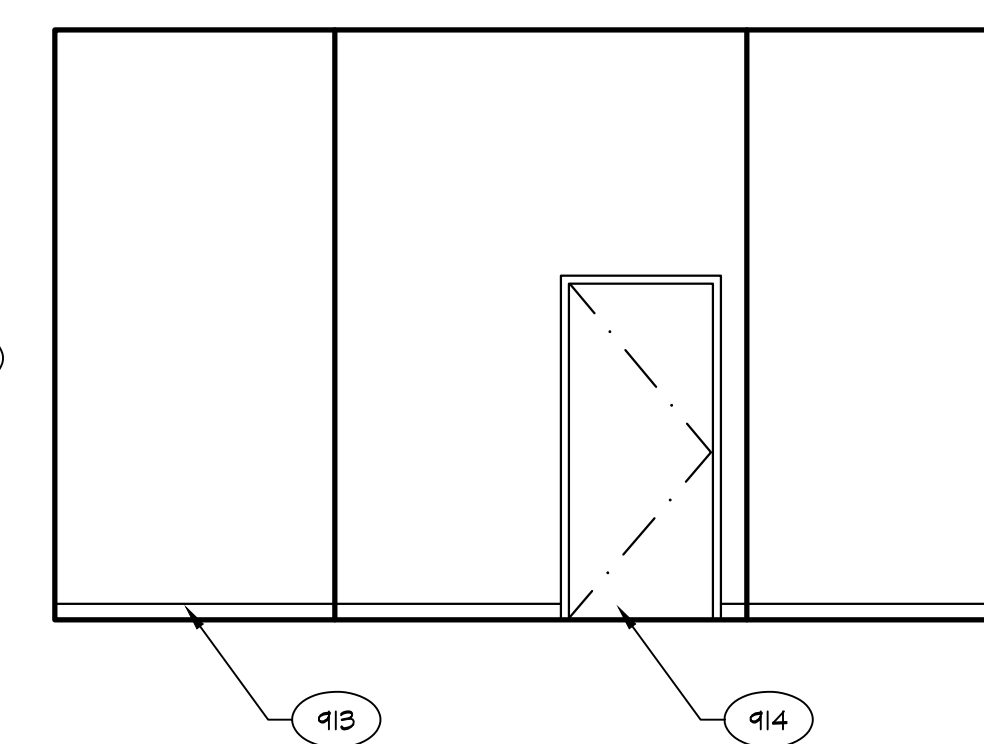
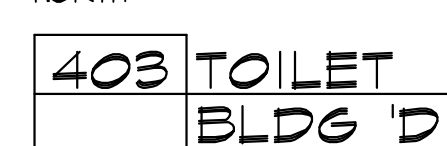
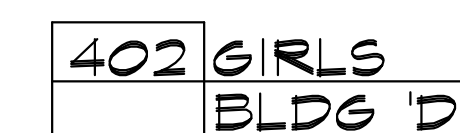
FLOOR TILE- KEYSTONE 2" X 2"- COLOR: URBAN PUTTY SPECKLE, GROUT- NEW TAUPE 185

TILE BASE- COLOR WHEEL CLASSIC 4.25" X 4.25", COLOR: ALMOND 0135, GROUT- SNOW WHITE 11

TRANSITION: CERAMIC TILE TO SHEET VINYL

WALL TILE- COLOR WHEEL CLASSIC 4.25" X 4.25", COLOR: ALMOND 0135, GROUT- SNOW WHITE 11

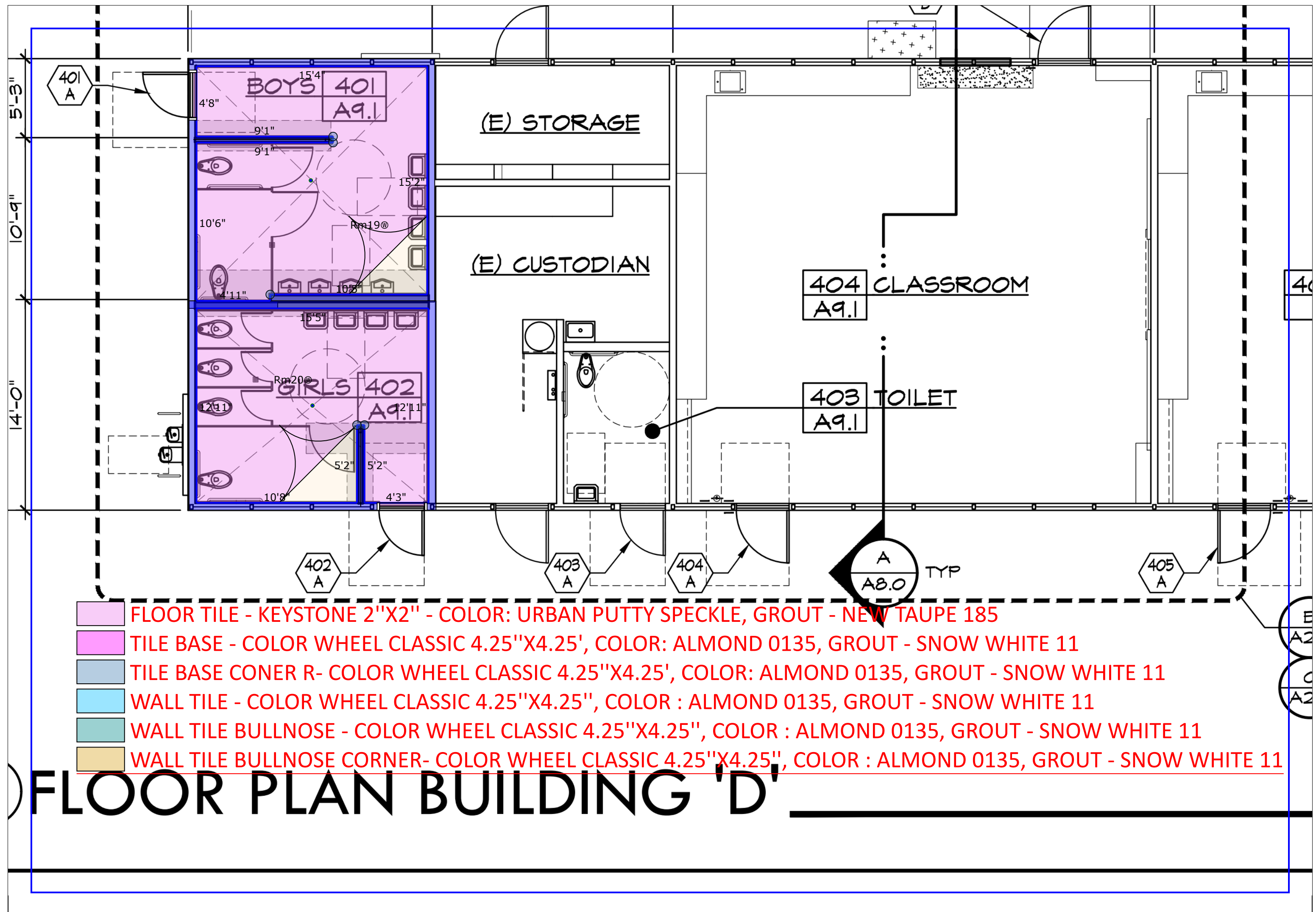




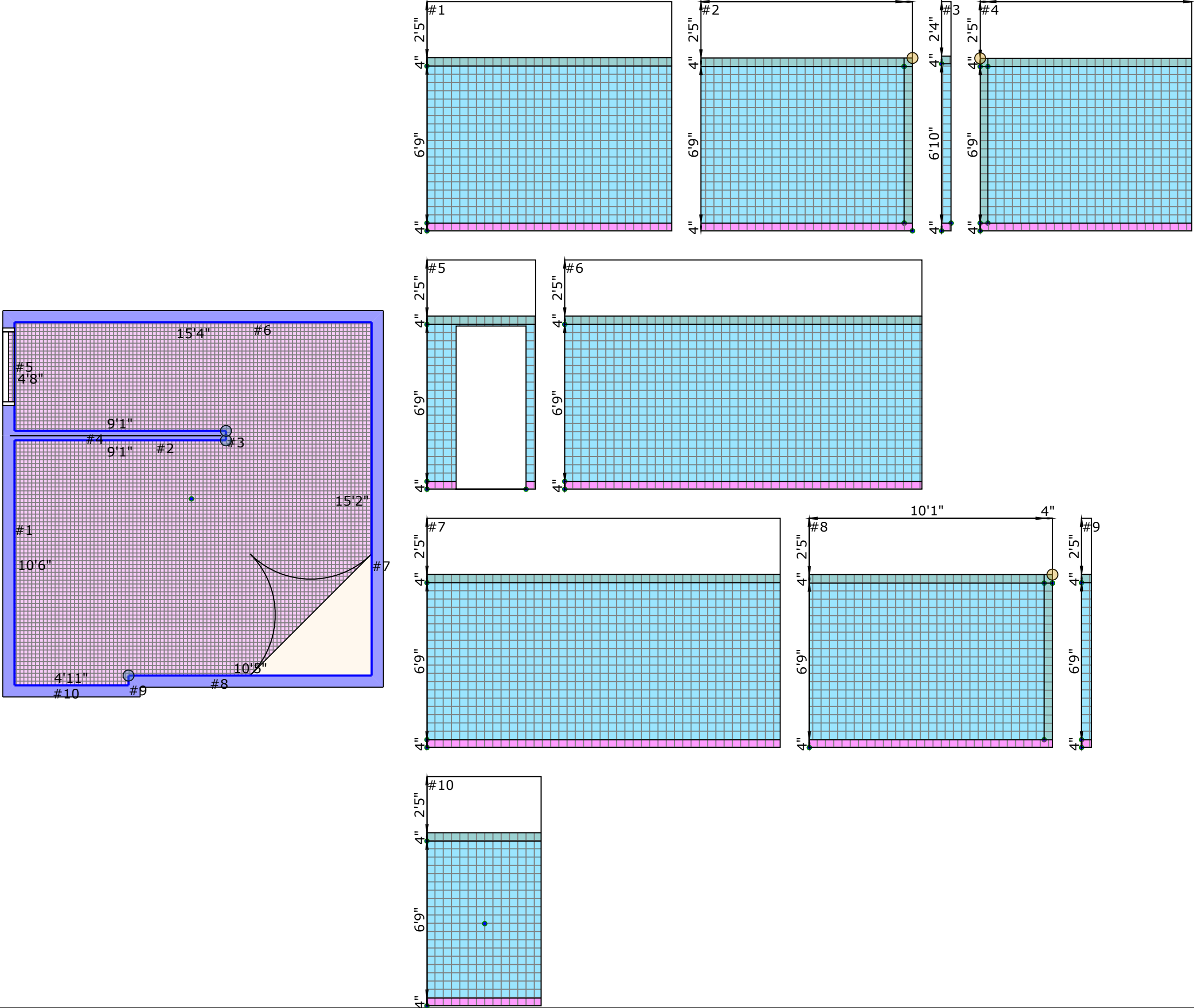
KEYNOTES	
901	(E) DOOR TO REMAIN
902	(E) BASE TO REMAIN
903	(E) WINDOW TO REMAIN
904	(E) CABINETS / SHELF TO REMAIN
905	(E) TOILET PARTITIONS TO REMAIN
906	(E) GRAB BAR TO REMAIN
907	(E) TOILET / URINAL TO REMAIN
908	(E) LAVATORY / SINK TO REMAIN
909	(E) MIRROR TO REMAIN
910	(E) RECESSED TOILET PAPER / PAPER TOWEL DISPENSER TO REMAIN
911	RELOCATED (E) TOILET PAPER DISPENSER
912	WALL FINISH - SEE ROOM FINISH SCHEDULE
913	BASE - SEE ROOM FINISH SCHEDULE
914	DOOR PER SCHEDULE
915	WINDOW PER SCHEDULE
916	WALL IN-FILL, PATCH 4 MATCH WALL FINISHES AS REQ'D
917	FLAM BASE CABS AND / OR UPPER CABS 4 SOLID SURFACE COUNTERTOP AND SPLASH
918	KNEE SPACE REQUIREMENTS
919	OMIT TOE KICK 4 RETURN BASE TO WALL
920	SOLID PLASTIC PARTITIONS
921	GRAB BAR - 48" AT SIDE AND 36" AT BACK
922	RELOCATED (E) LAVATORY / SINK
923	RECESSED PAPER TOWEL / TOILET PAPER DISPENSER PER SPEC
924	TOILET AND REQUIREMENTS - SEE PLUMBING PLANS
925	URINAL AND REQUIREMENTS - SEE PLUMBING PLANS
926	LAVATORY / SINK AND REQUIREMENTS - SEE PLUMBING PLANS
927	MIRROR - SEE SPECS
928	DRINKING FOUNTAIN AND REQUIREMENTS - SEE PLUMBING PLANS
929	PIPE RAIL PER SPEC
930	FIRE EXTINGUISHER

INTERIOR ELEVATIONS

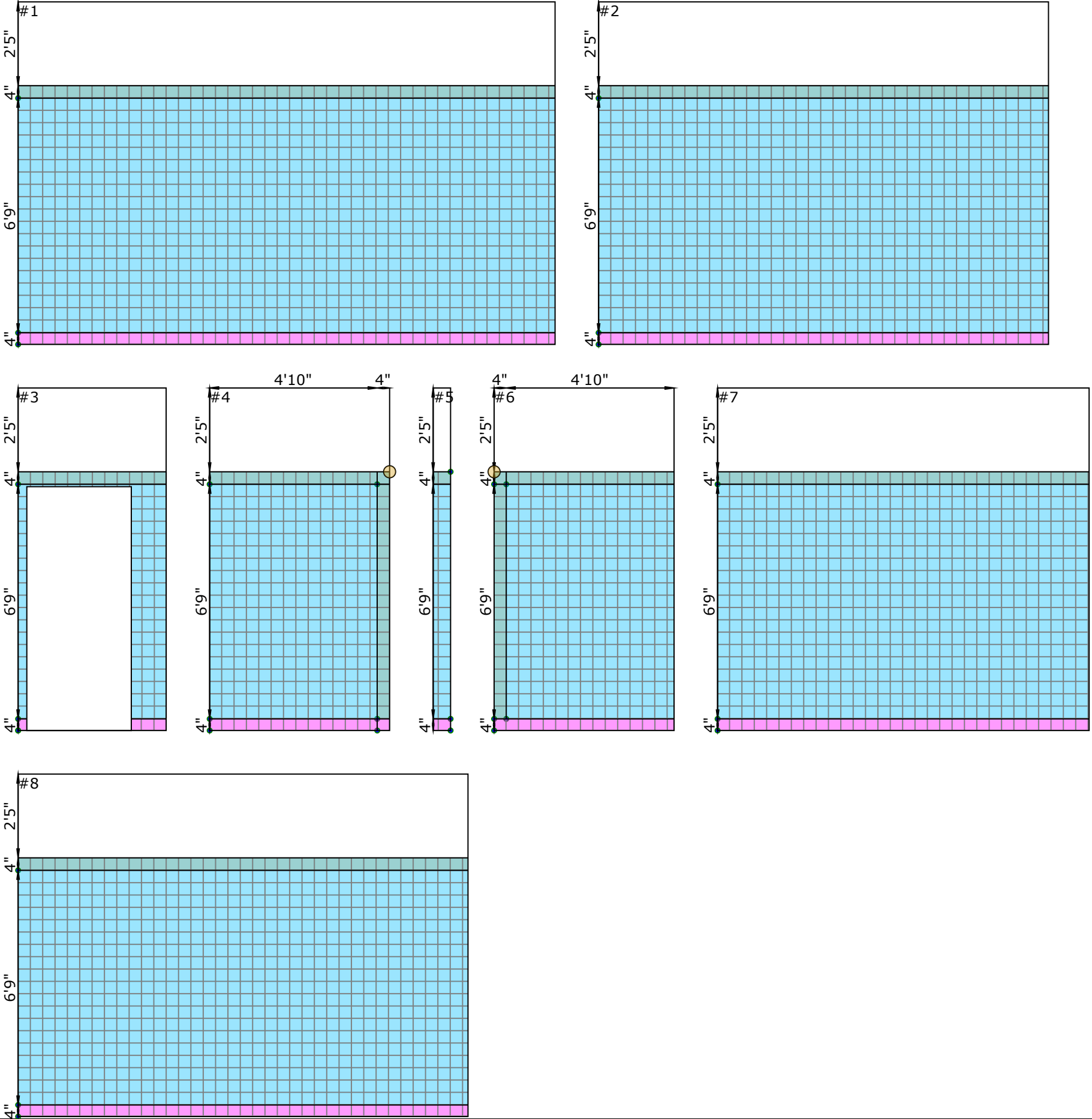
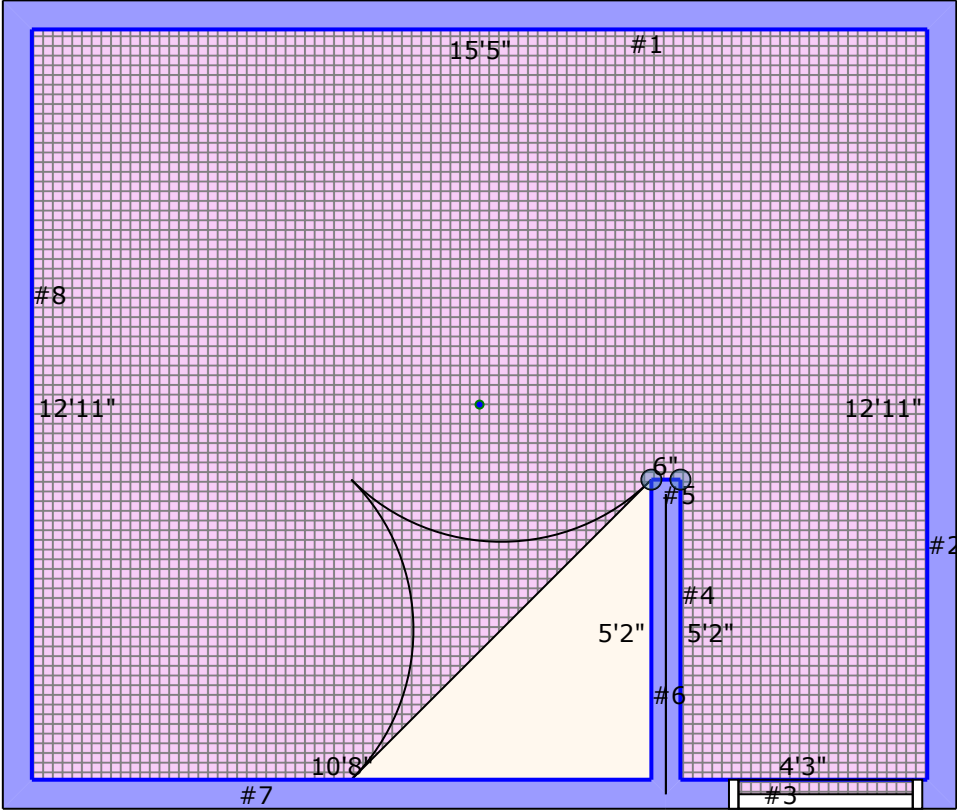
SCAIF: 1/4" = 1'-0"

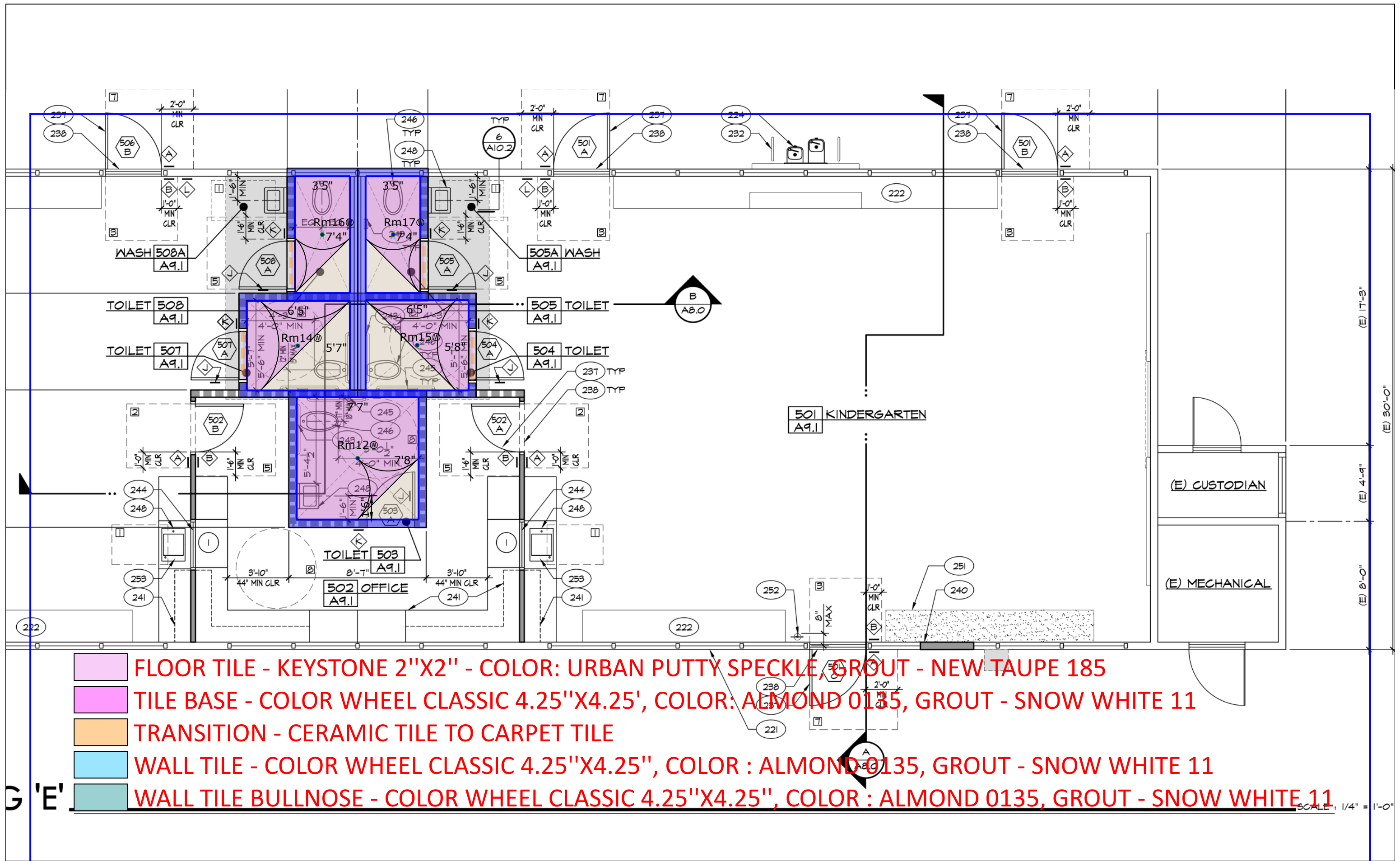


- Rm19
- FLOOR TILE - KEYSTONE 2"X2" - COLOR: URBAN PUTTY SPECKLE, GROUT - NEW TAUPE 185
 - Mortarbed
 - TILE BASE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR: ALMOND 0135, GROUT - SNOW WHITE 11
 - TILE BASE CONER R- COLOR WHEEL CLASSIC 4.25"X4.25', COLOR: ALMOND 0135, GROUT - SNOW WHITE 11
 - WALL TILE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11
 - WALL TILE BULLNOSE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11
 - WALL TILE BULLNOSE CORNER- COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11

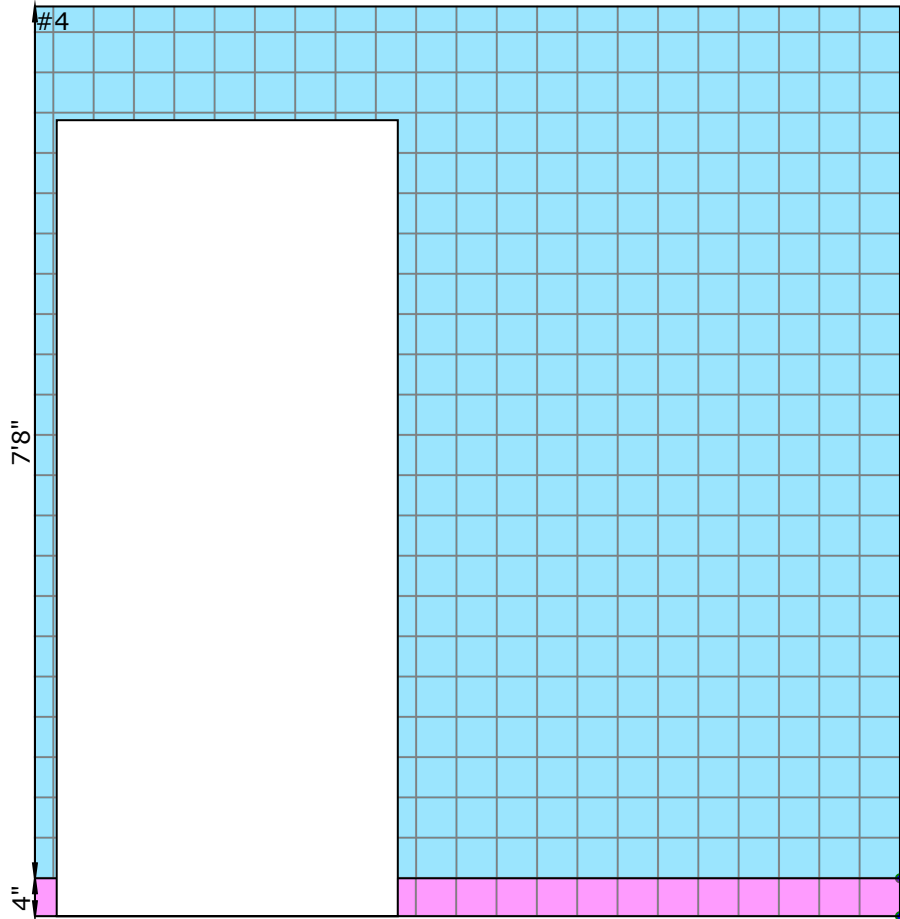
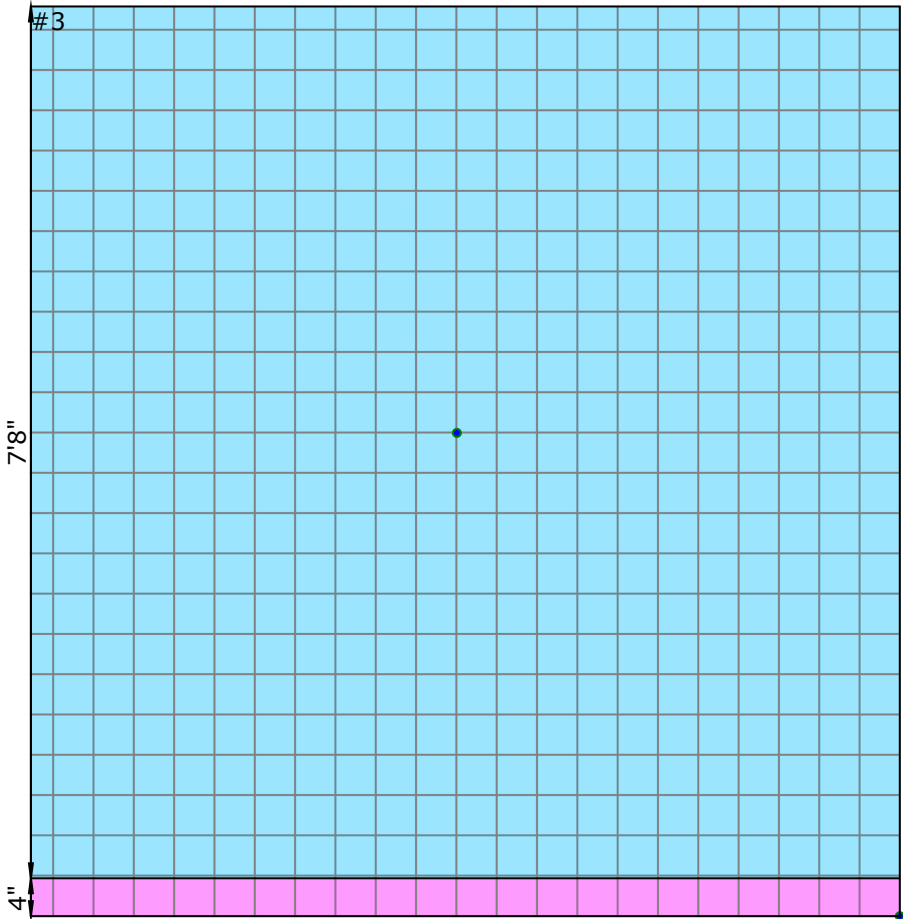
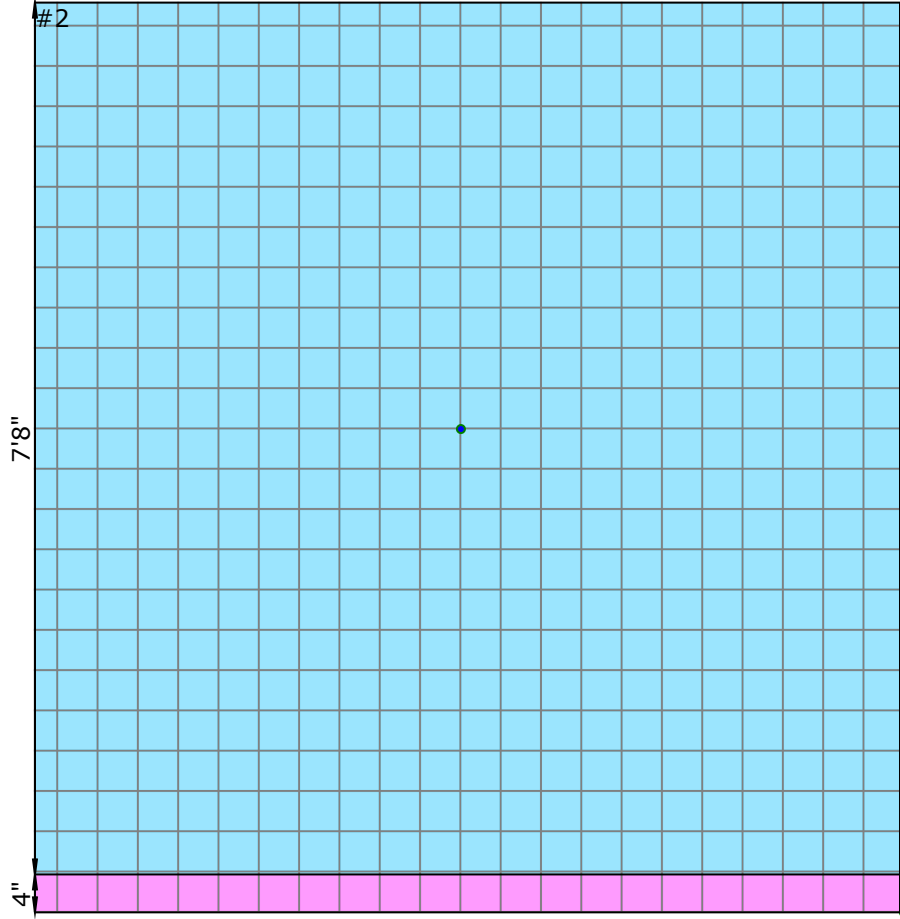
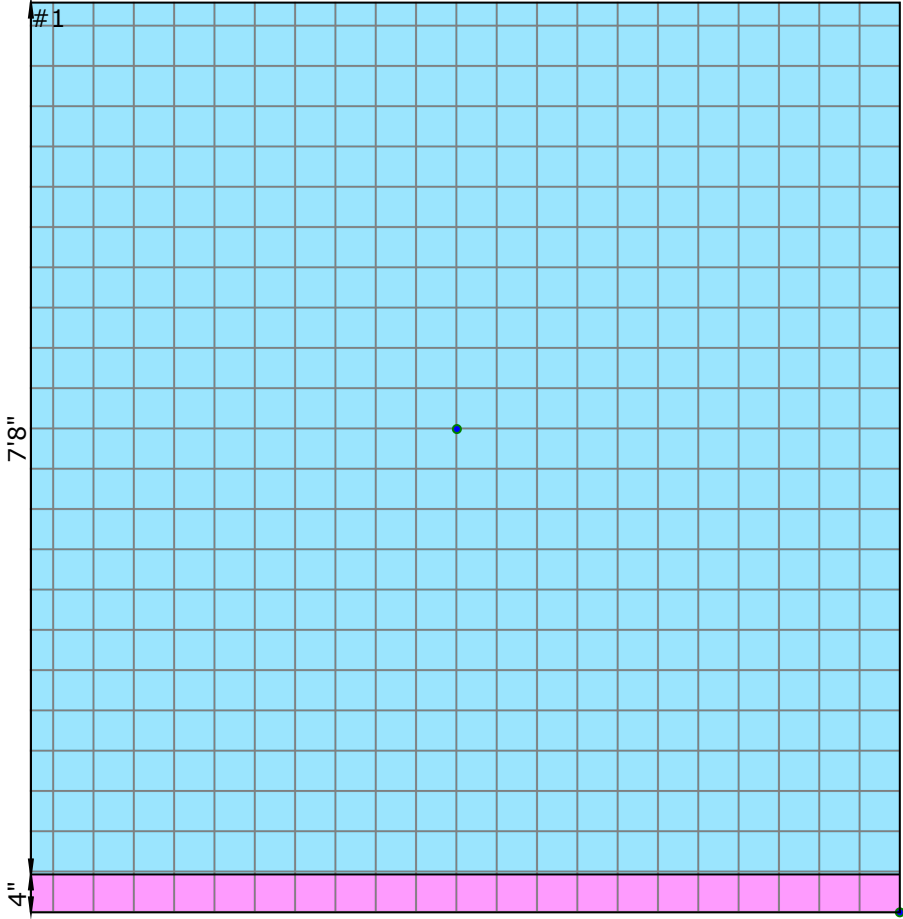
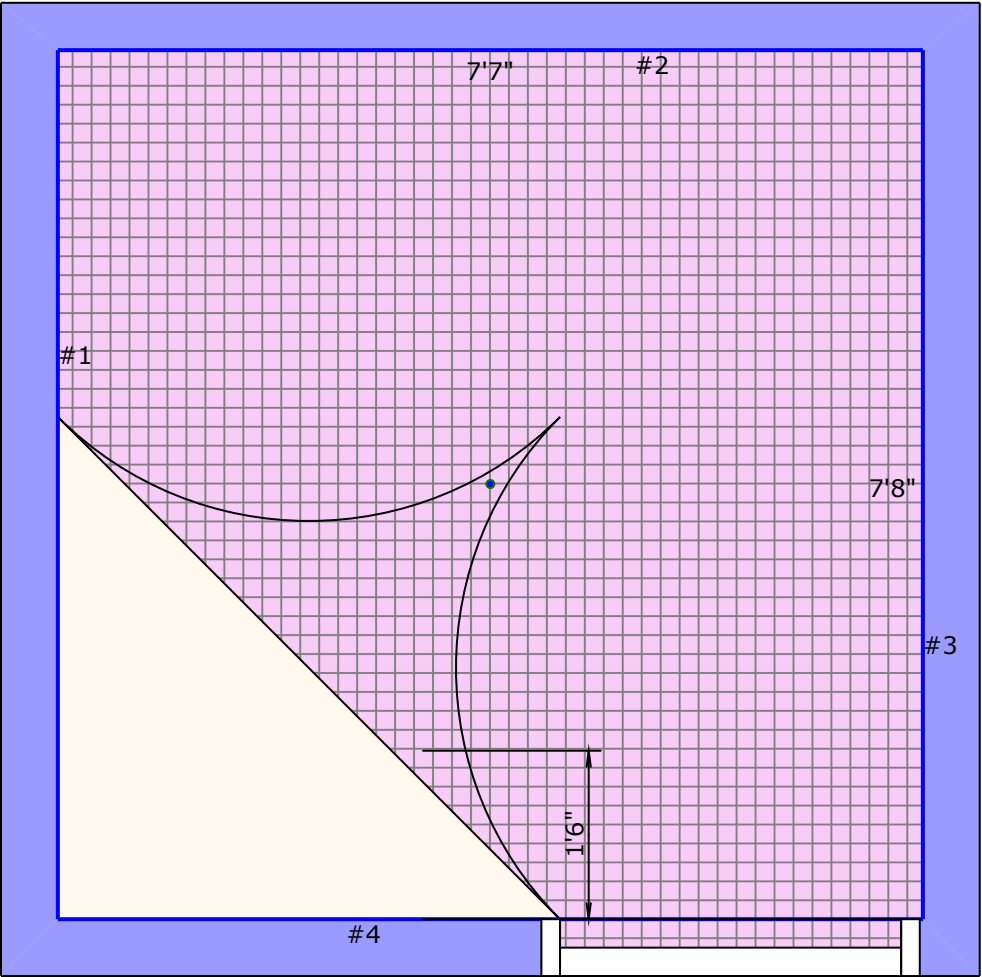


- Rm20
- FLOOR TILE - KEYSTONE 2"X2" - COLOR: URBAN PUTTY SPECKLE, GROUT - NEW TAUPE 185
 - Mortarbed
 - TILE BASE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR: ALMOND 0135, GROUT - SNOW WHITE 11
 - TILE BASE CONER R- COLOR WHEEL CLASSIC 4.25"X4.25', COLOR: ALMOND 0135, GROUT - SNOW WHITE 11
 - WALL TILE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11
 - WALL TILE BULLNOSE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11
 - WALL TILE BULLNOSE CORNER- COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11

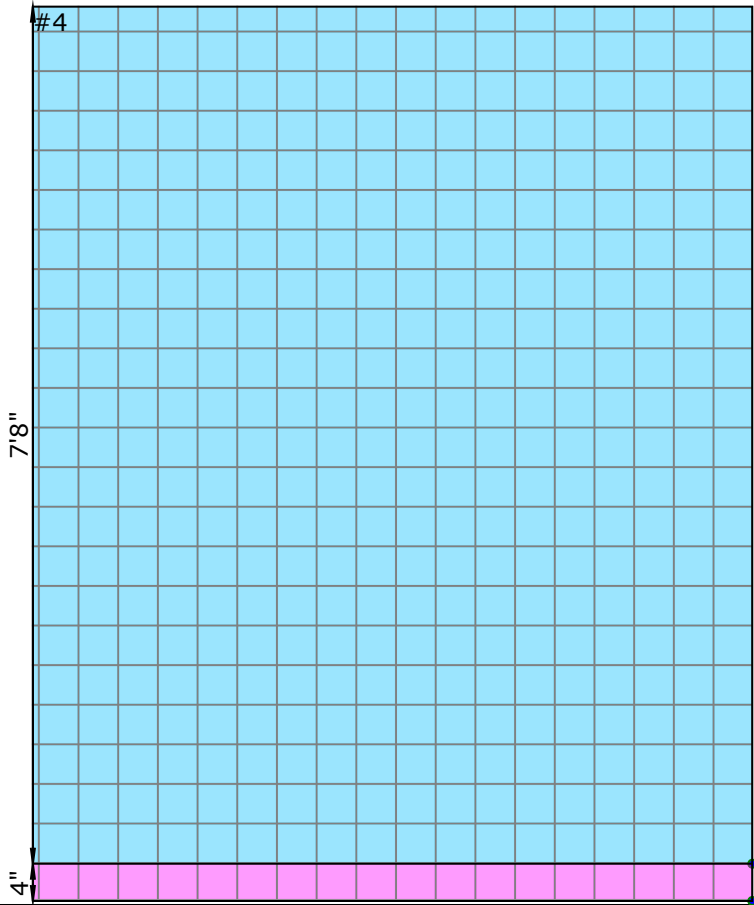
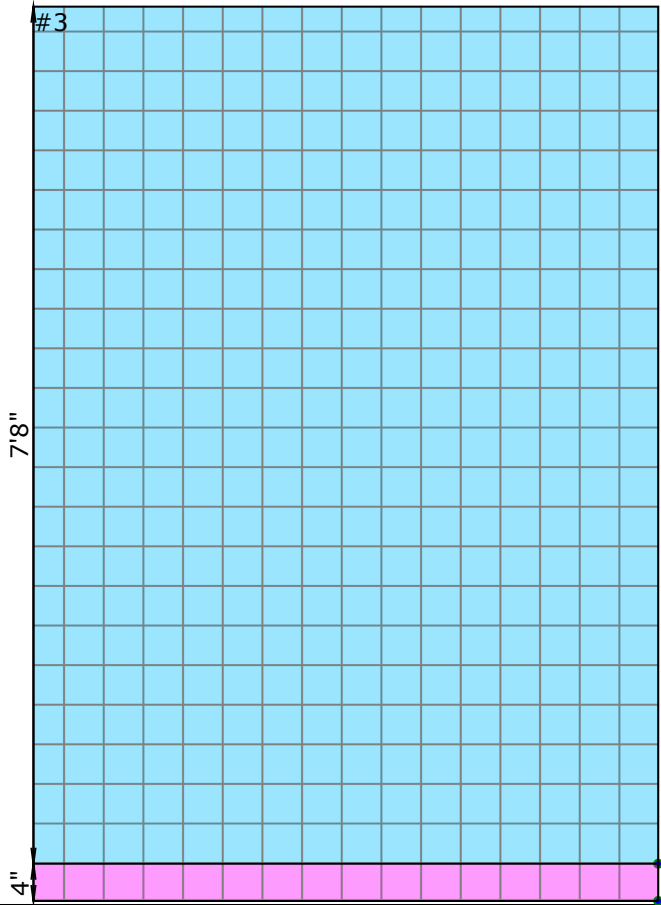
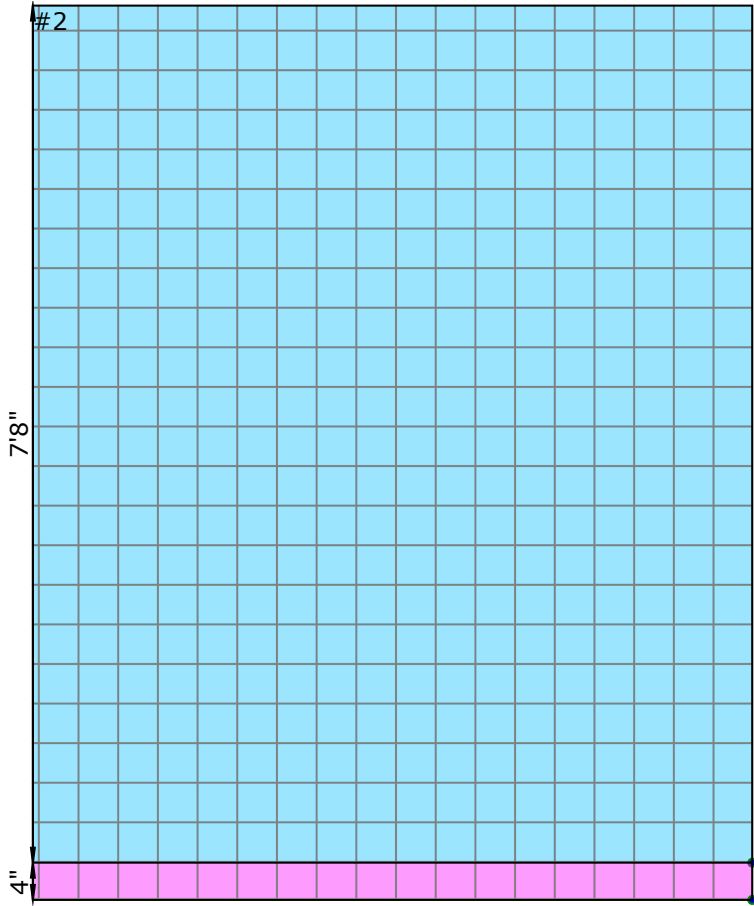
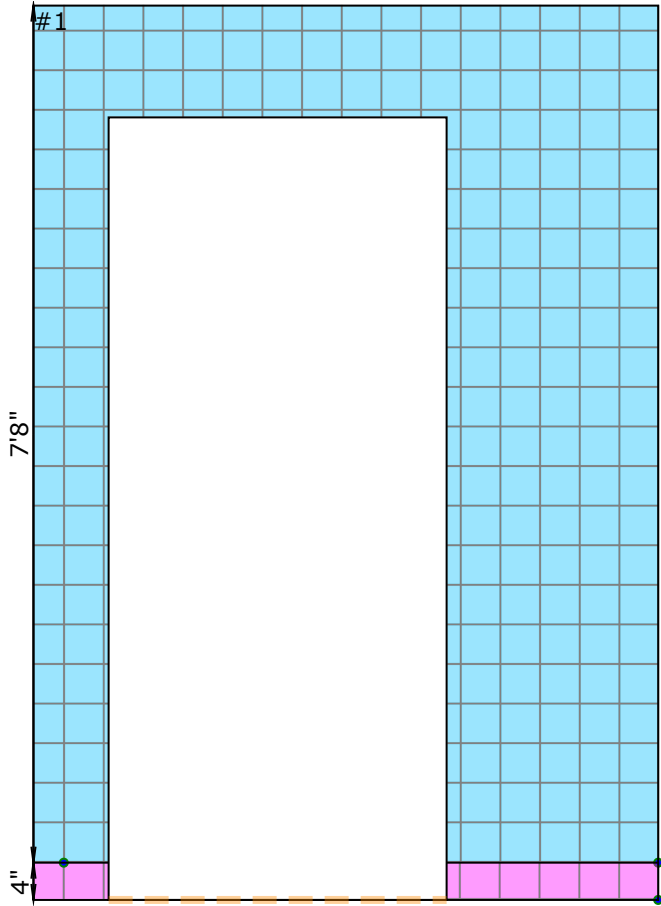
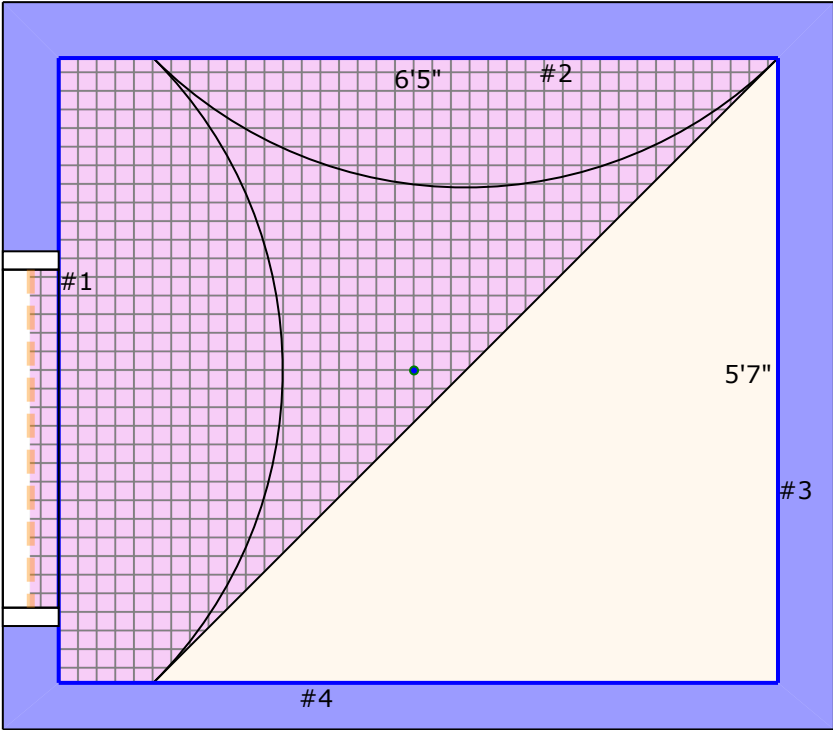




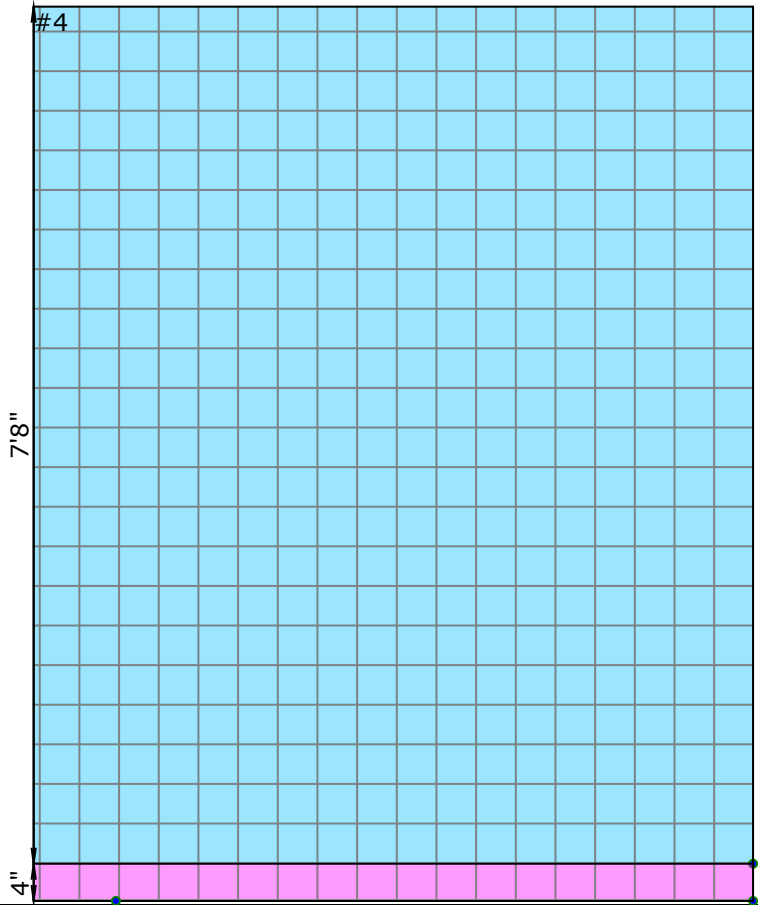
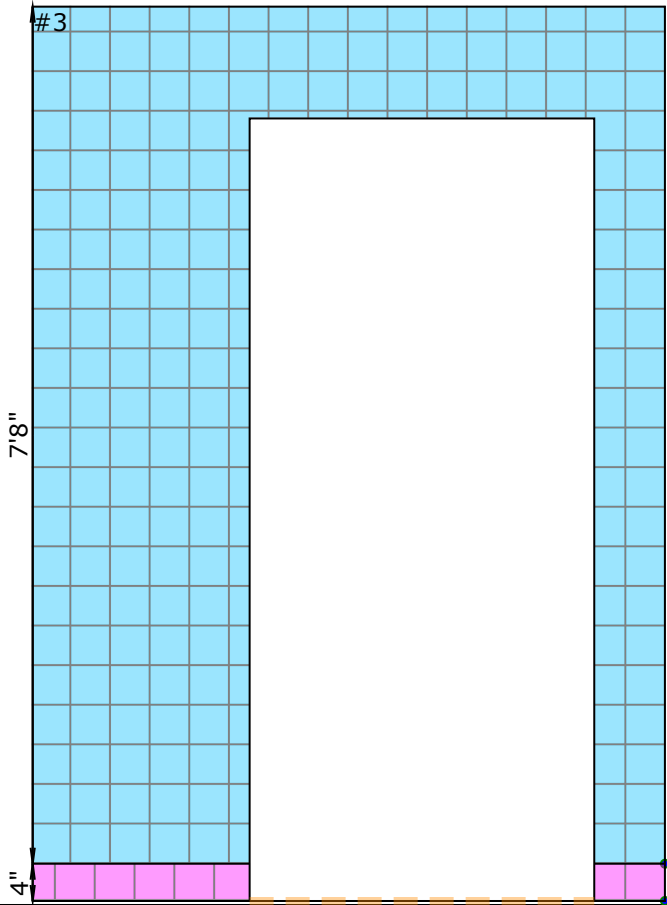
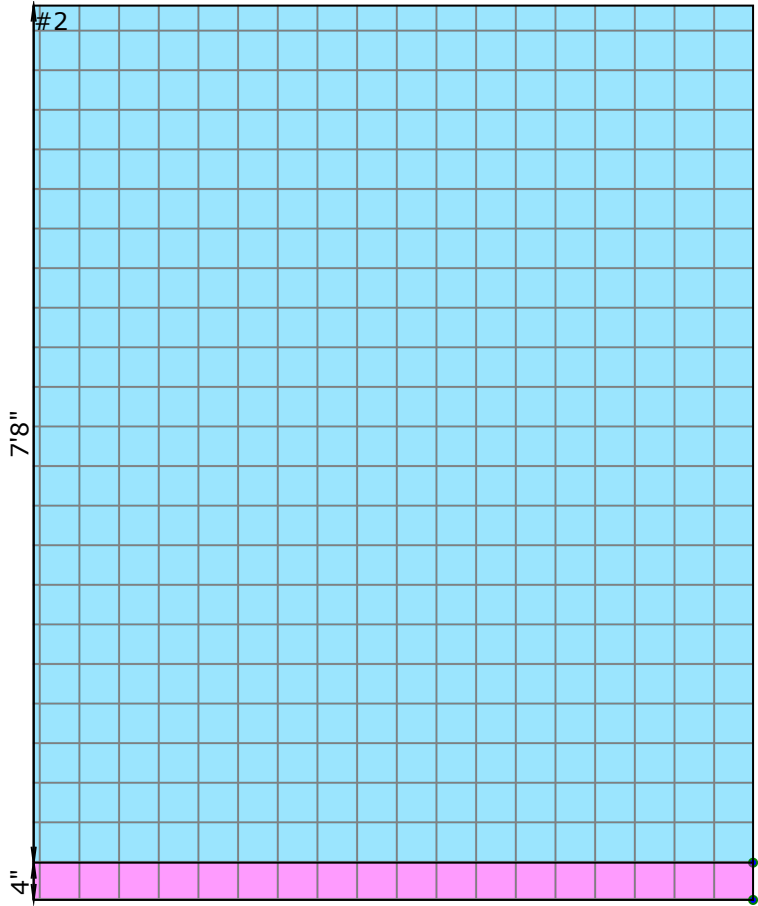
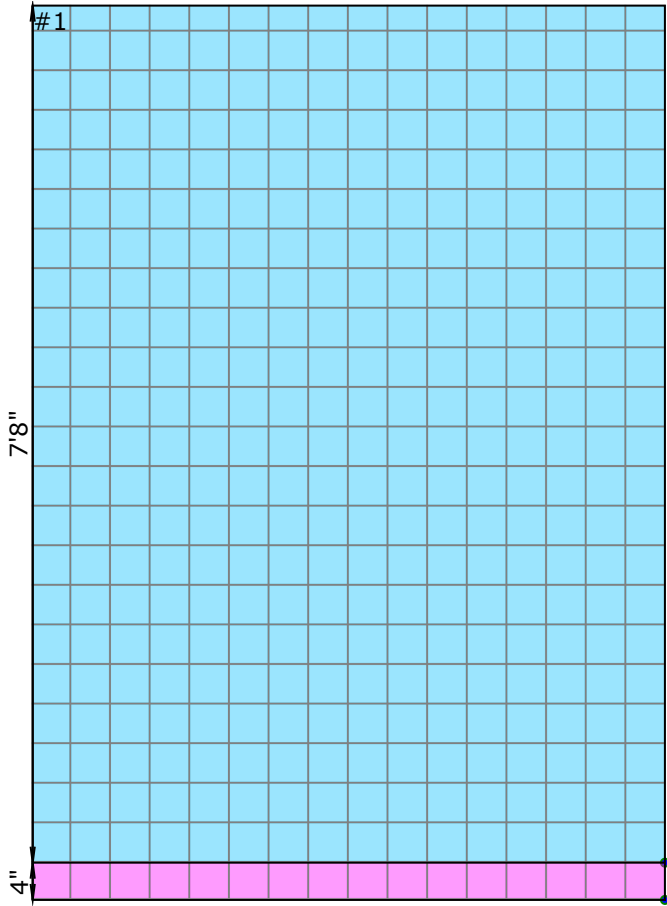
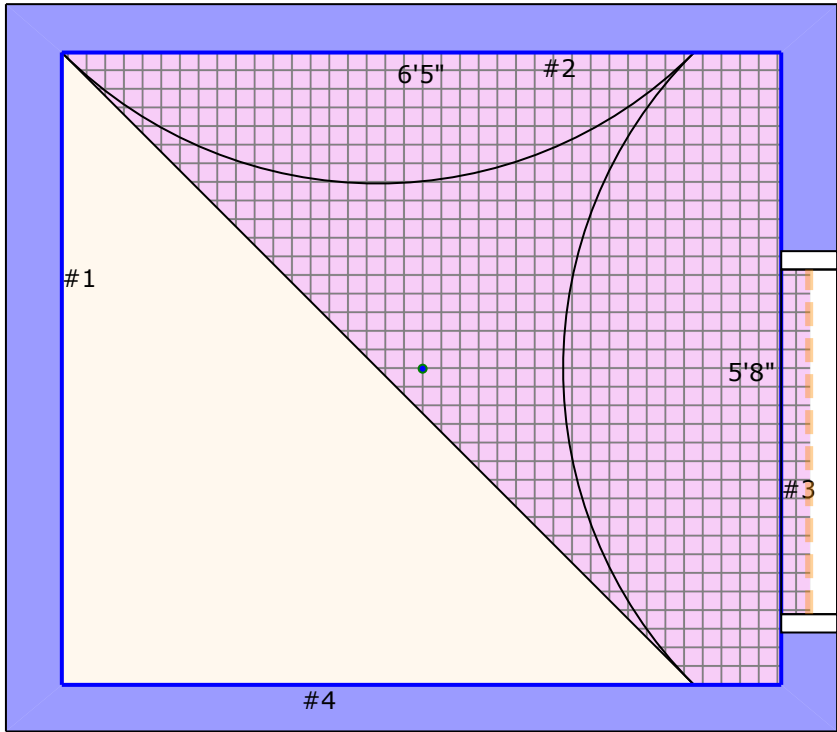
- Rm12
- FLOOR TILE - KEYSTONE 2"X2" - COLOR: URBAN PUTTY SPECKLE, GROUT - NEW TAUPE 185
 - Mortarbed
 - TILE BASE - COLOR WHEEL CLASSIC 4.25"X4.25', COLOR: ALMOND 0135, GROUT - SNOW WHITE 11
 - WALL TILE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11



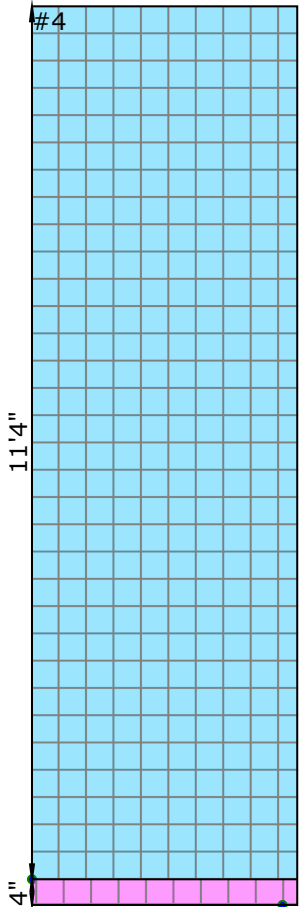
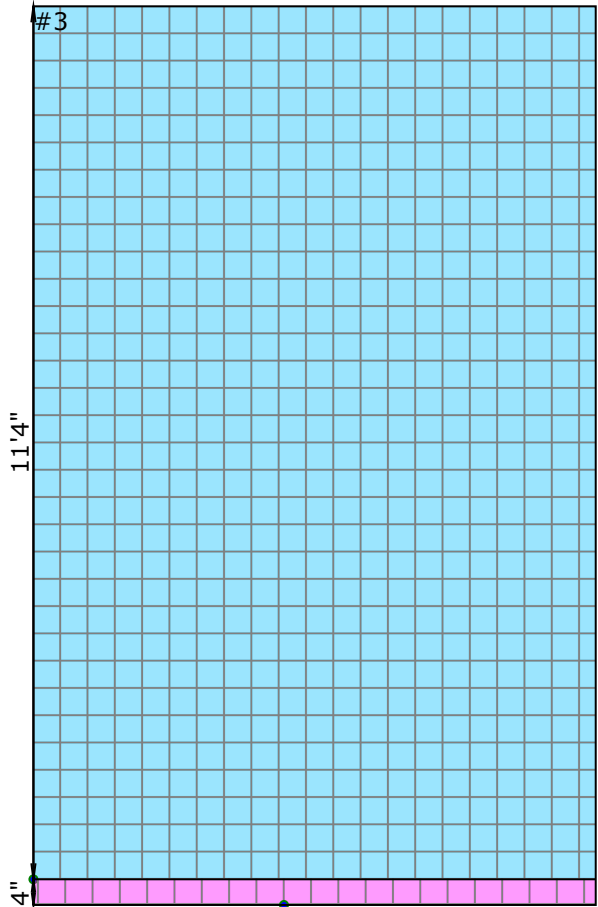
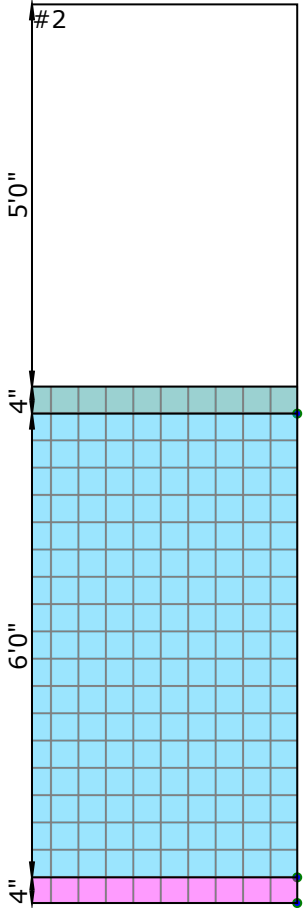
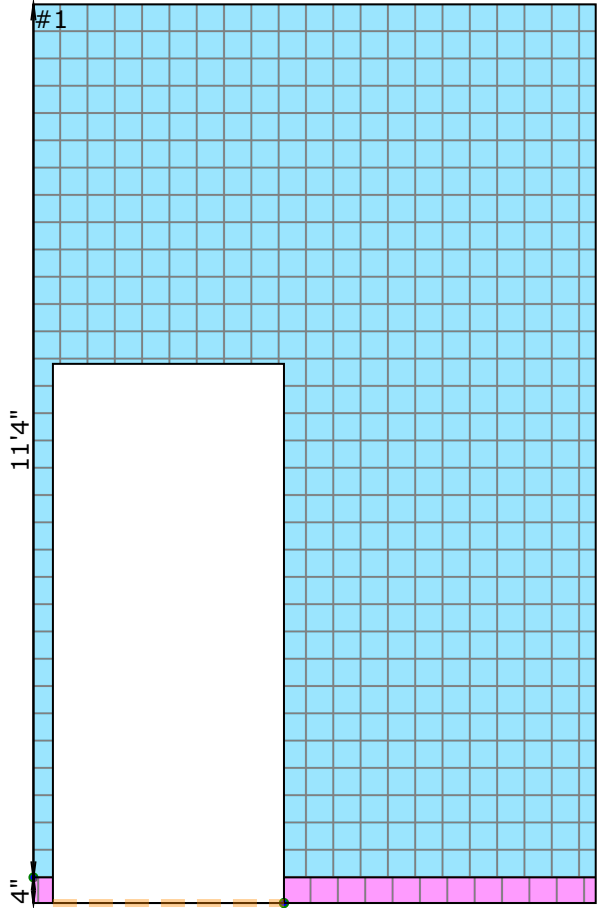
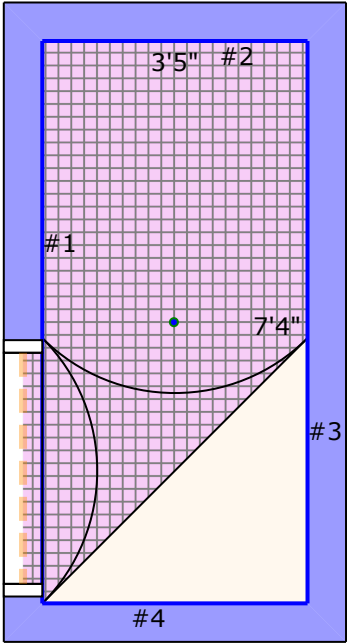
- Rm14
- FLOOR TILE - KEYSTONE 2"X2" - COLOR: URBAN PUTTY SPECKLE, GROUT - NEW TAUPE 185
 - Mortarbed
 - TILE BASE - COLOR WHEEL CLASSIC 4.25"X4.25', COLOR: ALMOND 0135, GROUT - SNOW WHITE 11
 - TRANSITION - CERAMIC TILE TO CARPET TILE
 - WALL TILE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11



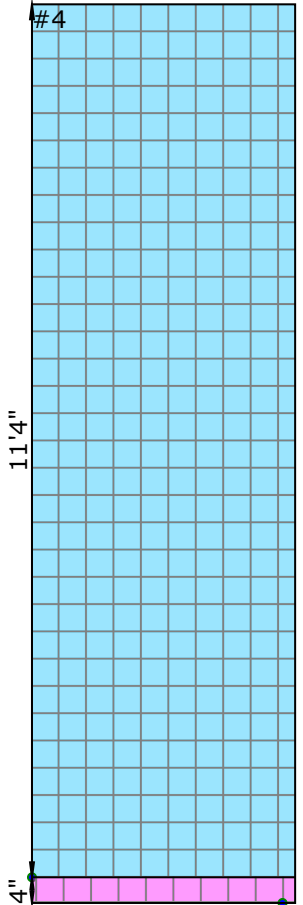
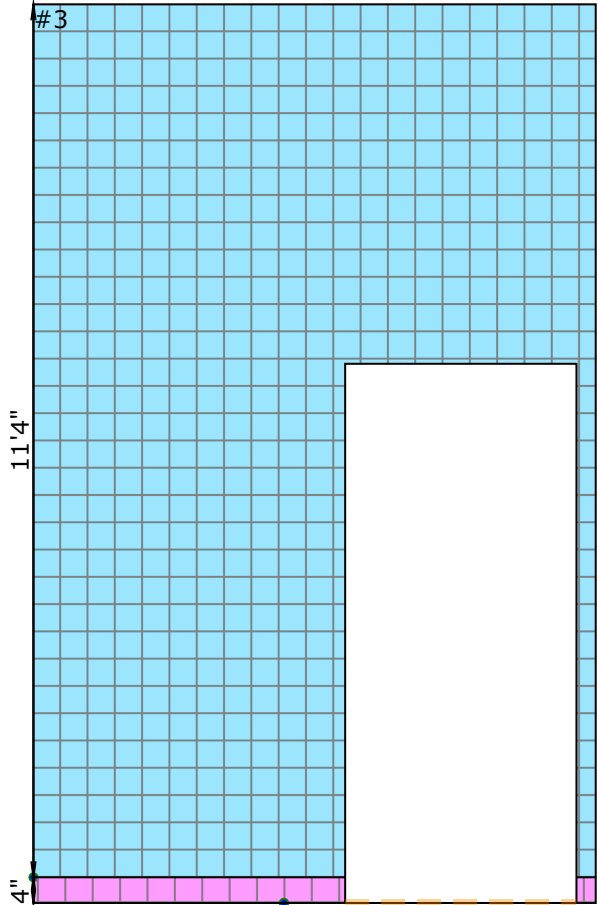
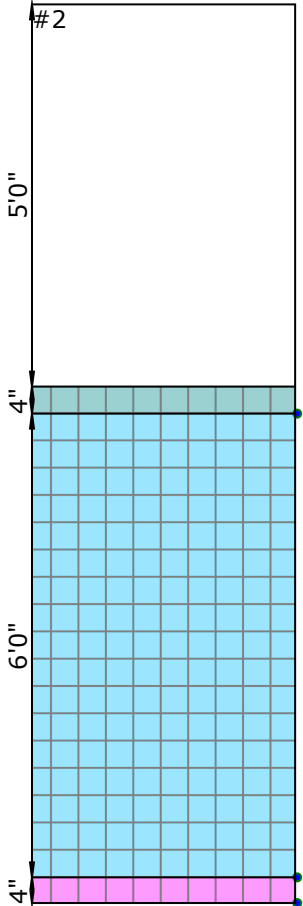
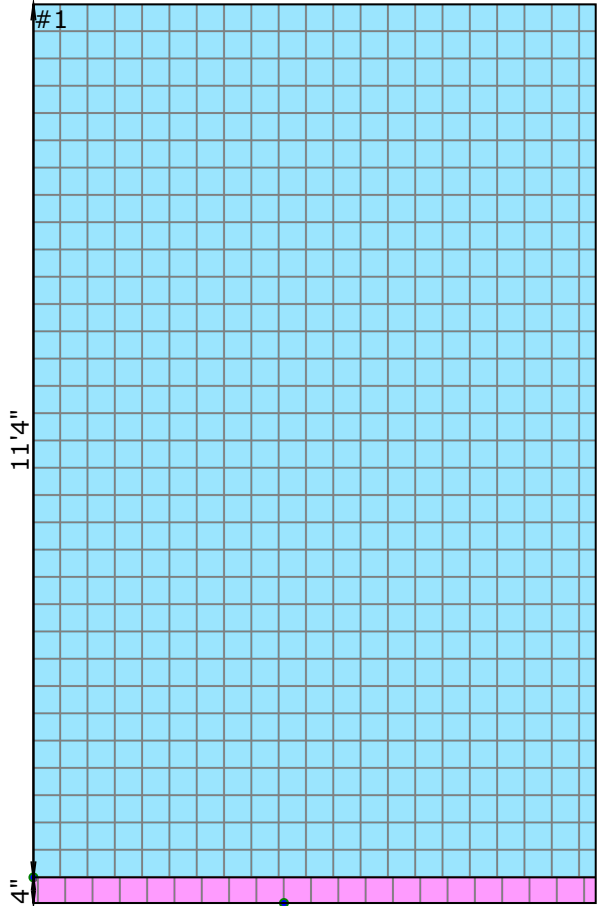
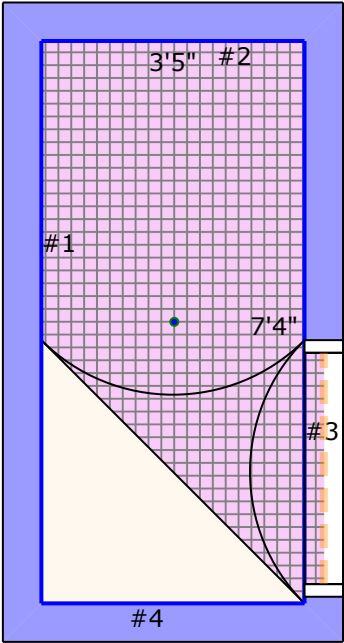
- Rm15
- FLOOR TILE - KEYSTONE 2"X2" - COLOR: URBAN PUTTY SPECKLE, GROUT - NEW TAUPE 185
 - Mortarbed
 - TILE BASE - COLOR WHEEL CLASSIC 4.25"X4.25', COLOR: ALMOND 0135, GROUT - SNOW WHITE 11
 - TRANSITION - CERAMIC TILE TO CARPET TILE
 - WALL TILE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11

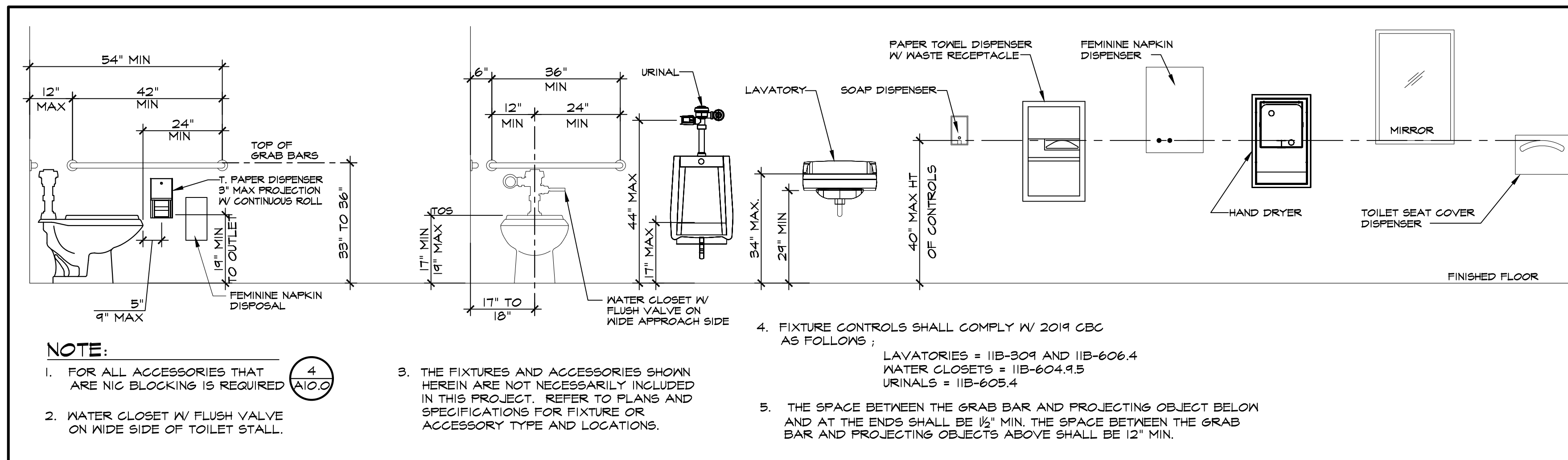


- Rm16
- FLOOR TILE - KEYSTONE 2"X2" - COLOR: URBAN PUTTY SPECKLE, GROUT - NEW TAUPE 185
 - Mortarbed
 - TILE BASE - COLOR WHEEL CLASSIC 4.25"X4.25', COLOR: ALMOND 0135, GROUT - SNOW WHITE 11
 - TRANSITION - CERAMIC TILE TO CARPET TILE
 - WALL TILE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11
 - WALL TILE BULLNOSE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11

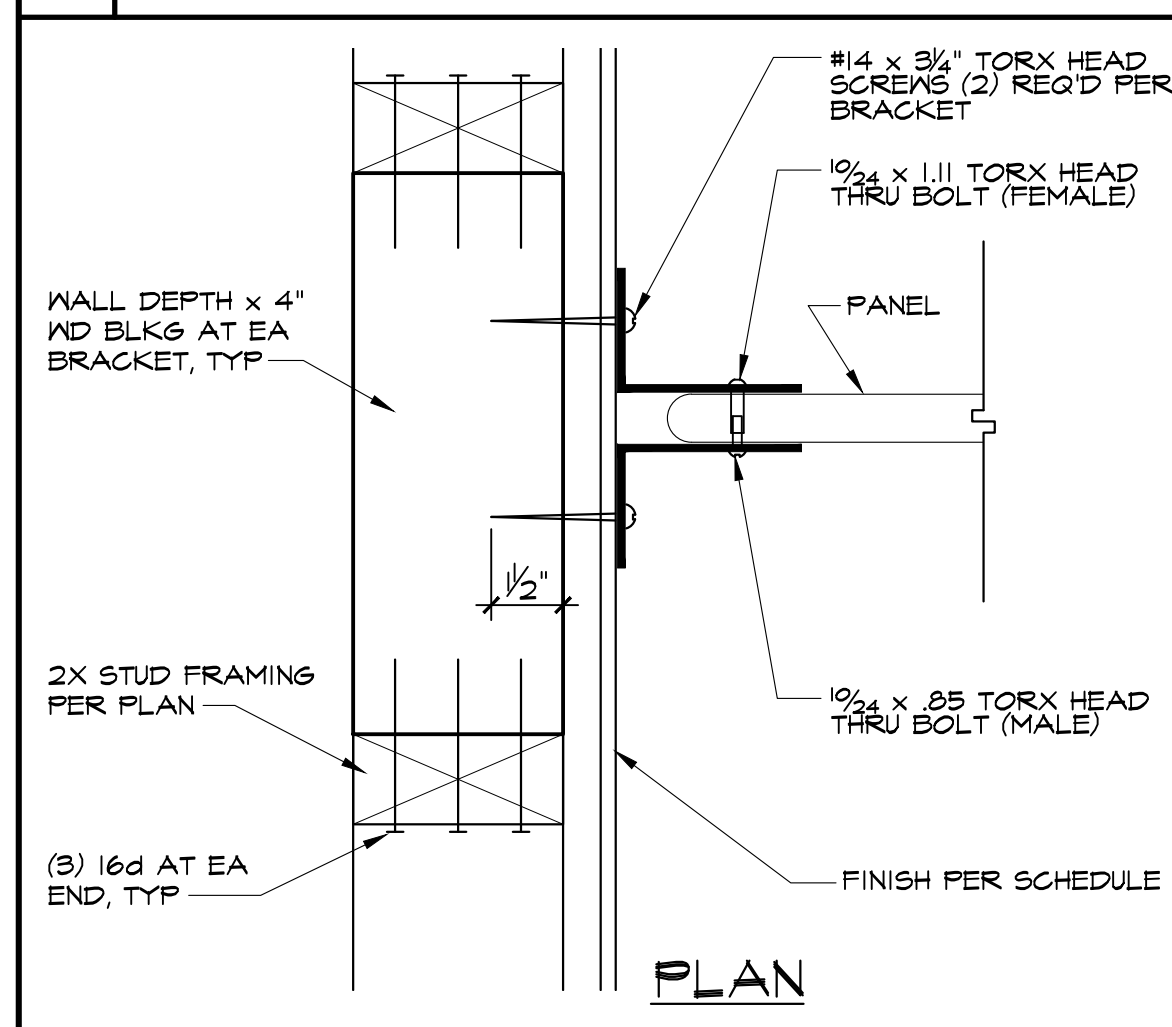


- Rm17
- FLOOR TILE - KEYSTONE 2"X2" - COLOR: URBAN PUTTY SPECKLE, GROUT - NEW TAUPE 185
 - Mortarbed
 - TILE BASE - COLOR WHEEL CLASSIC 4.25"X4.25', COLOR: ALMOND 0135, GROUT - SNOW WHITE 11
 - TRANSITION - CERAMIC TILE TO CARPET TILE
 - WALL TILE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11
 - WALL TILE BULLNOSE - COLOR WHEEL CLASSIC 4.25"X4.25", COLOR : ALMOND 0135, GROUT - SNOW WHITE 11

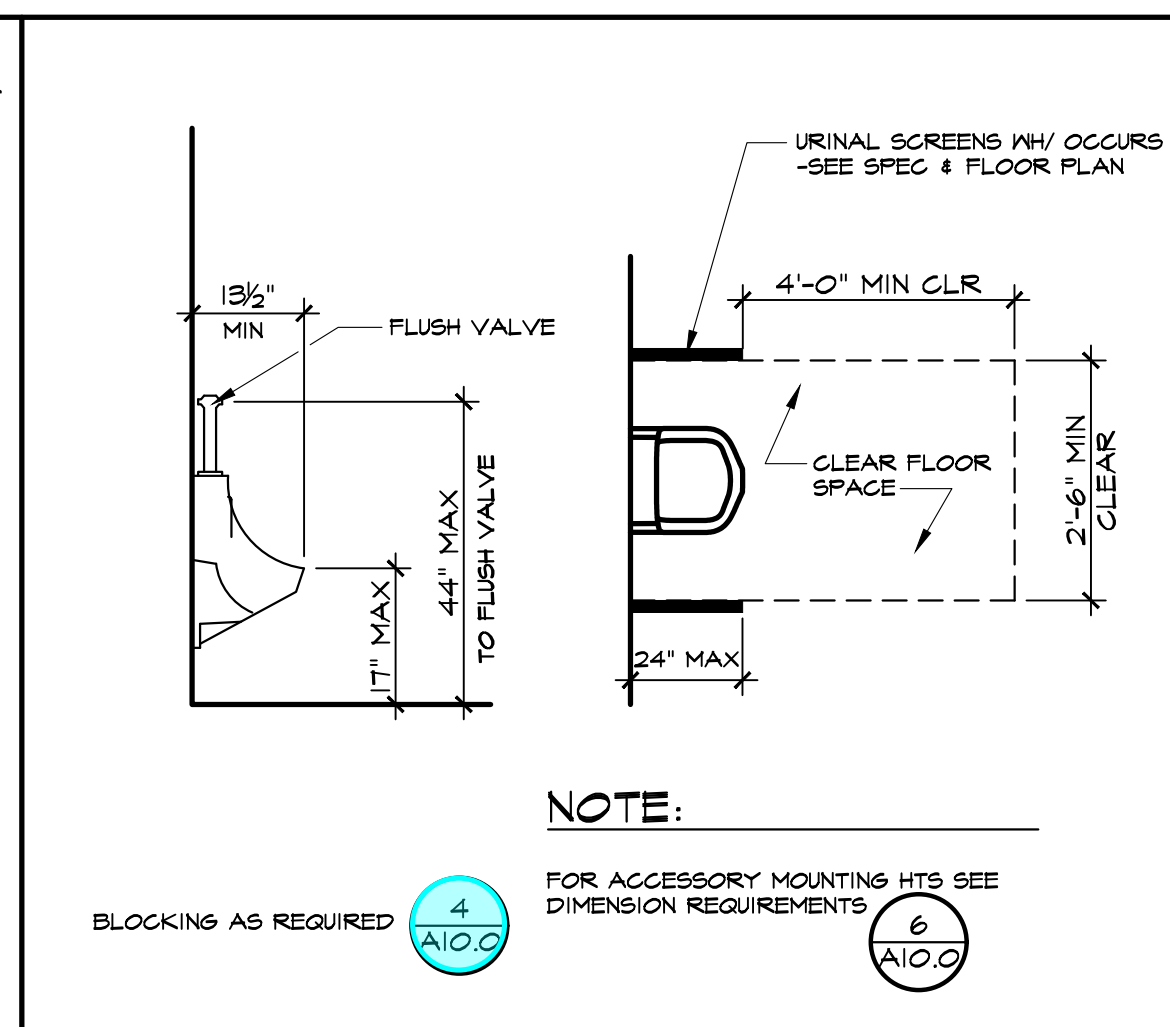




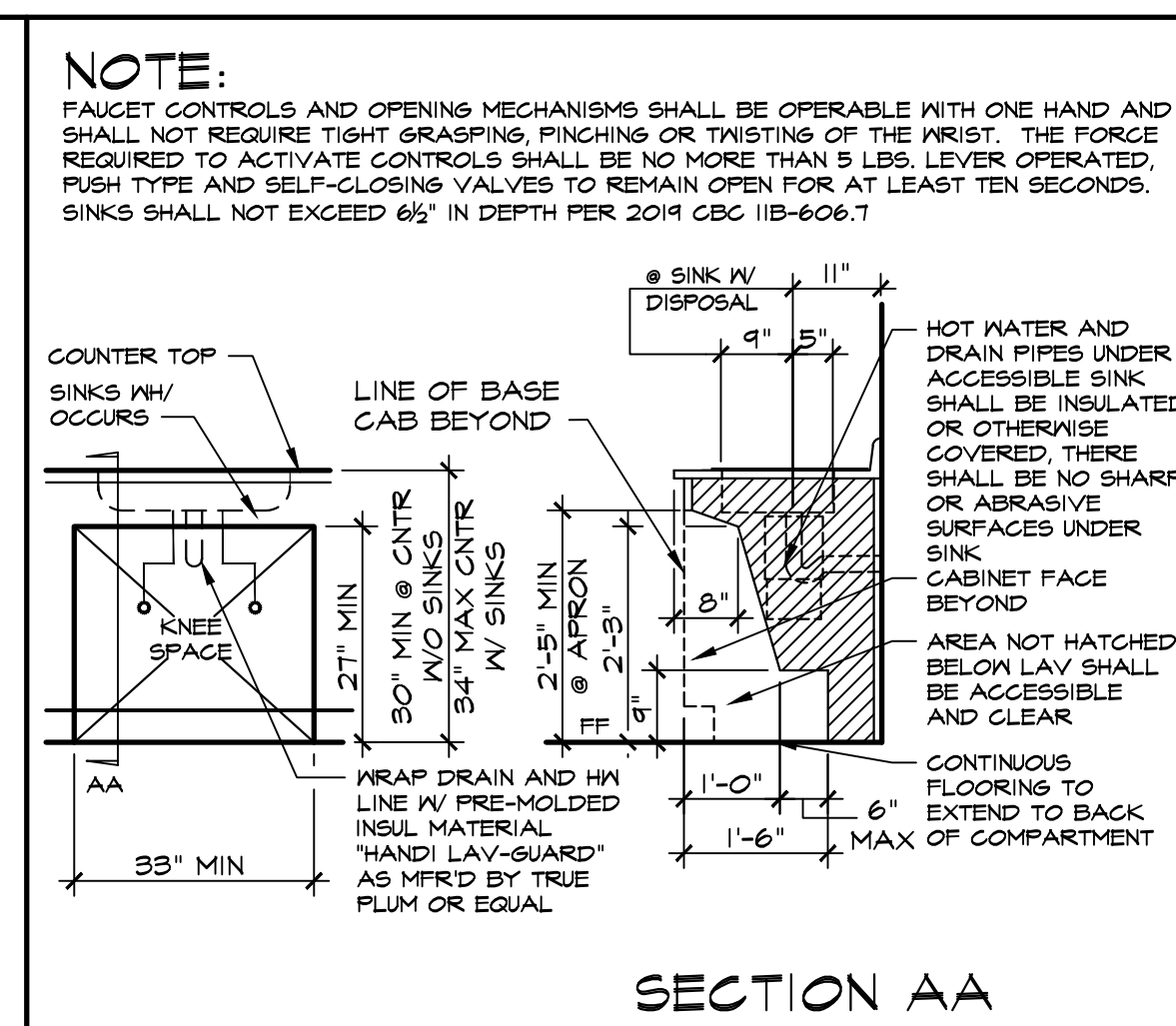
1 TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS SCALE: 1/2" = 1'-0"



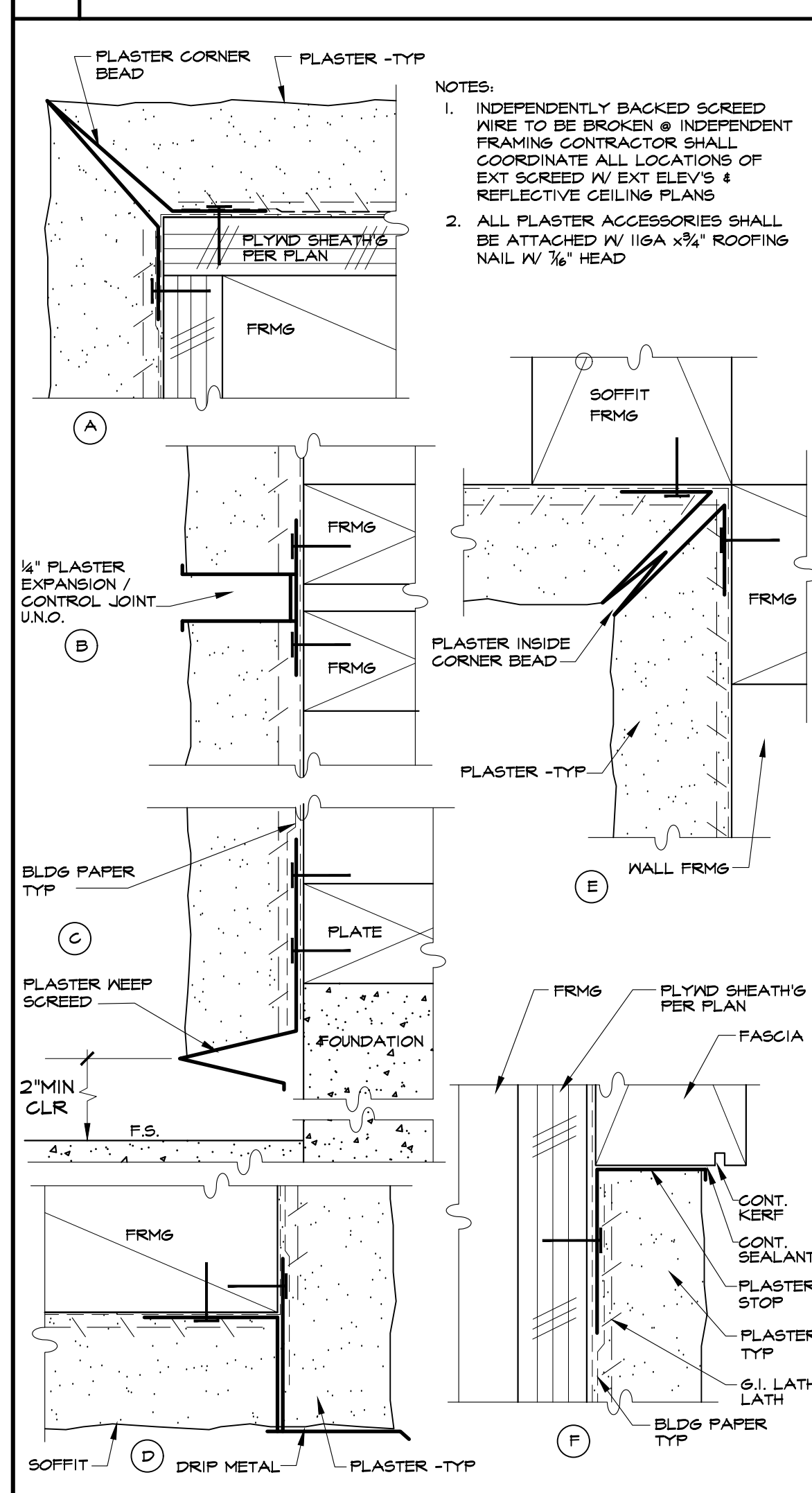
7 TOILET PARTITION SCALE: 3/4" = 1'-0"



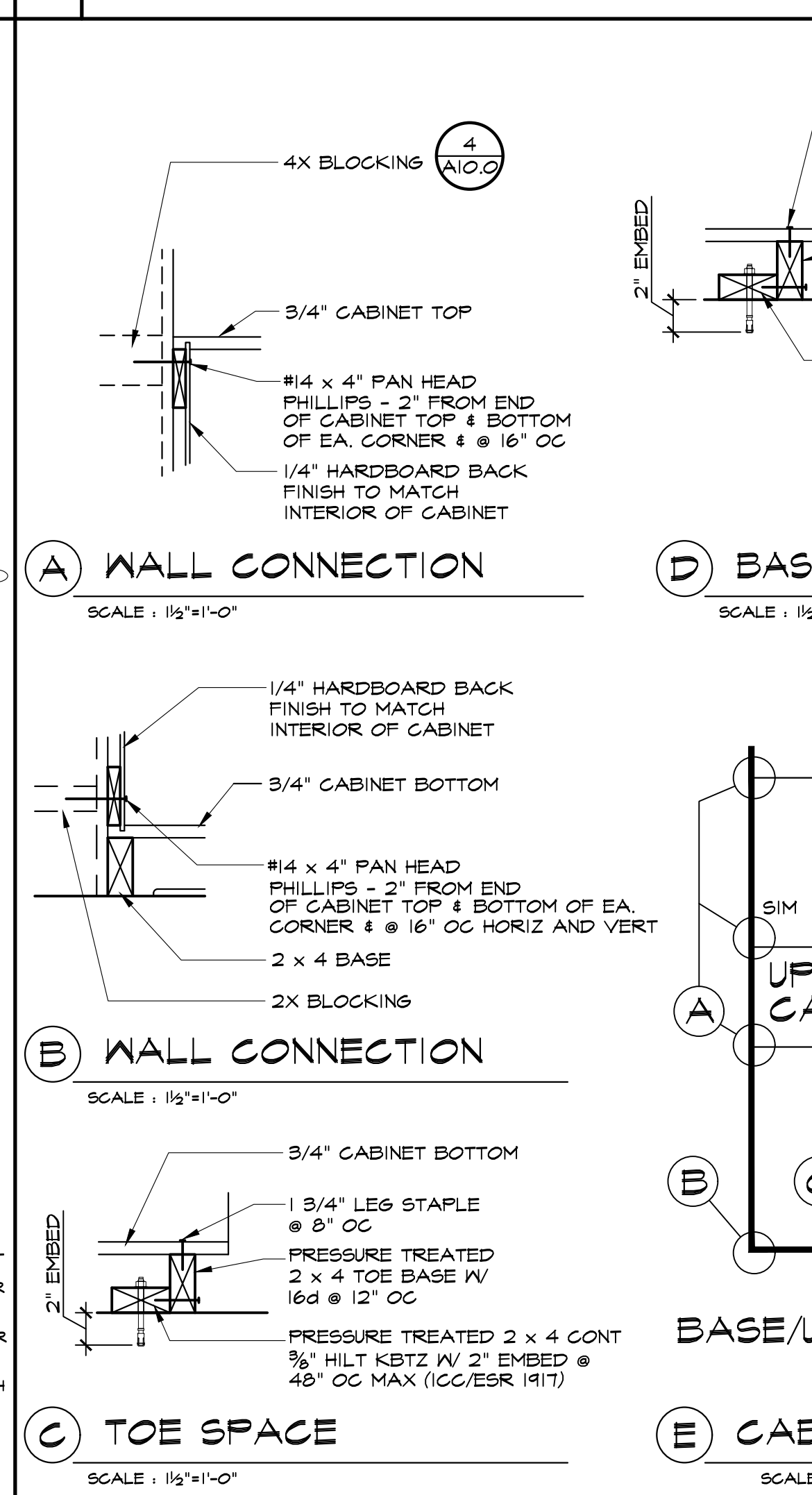
8 URINAL REQUIREMENTS SCALE: 1/2" = 1'-0"



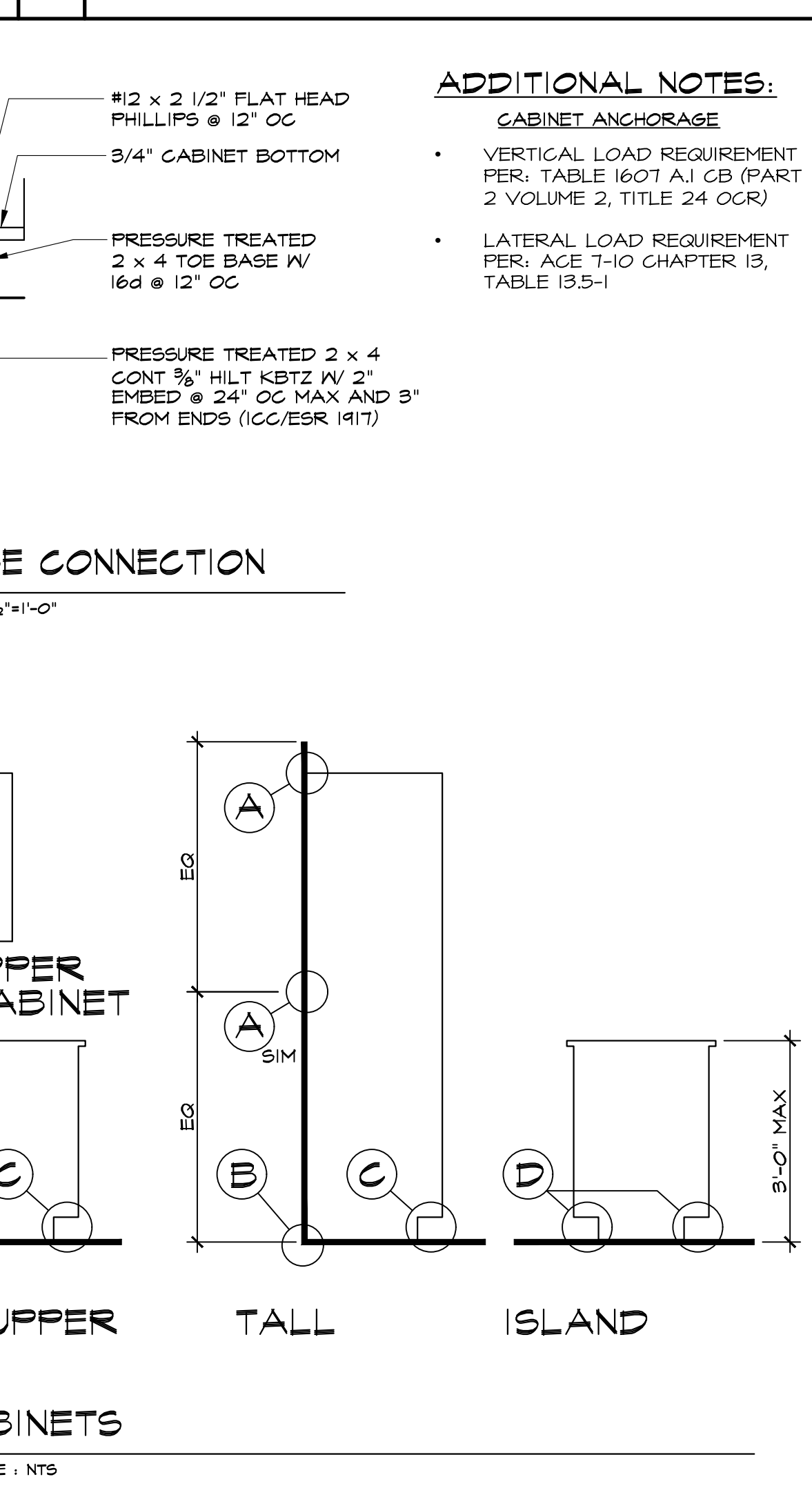
9 KNEE SPACE REQUIREMENTS SCALE: 1/2" = 1'-0"



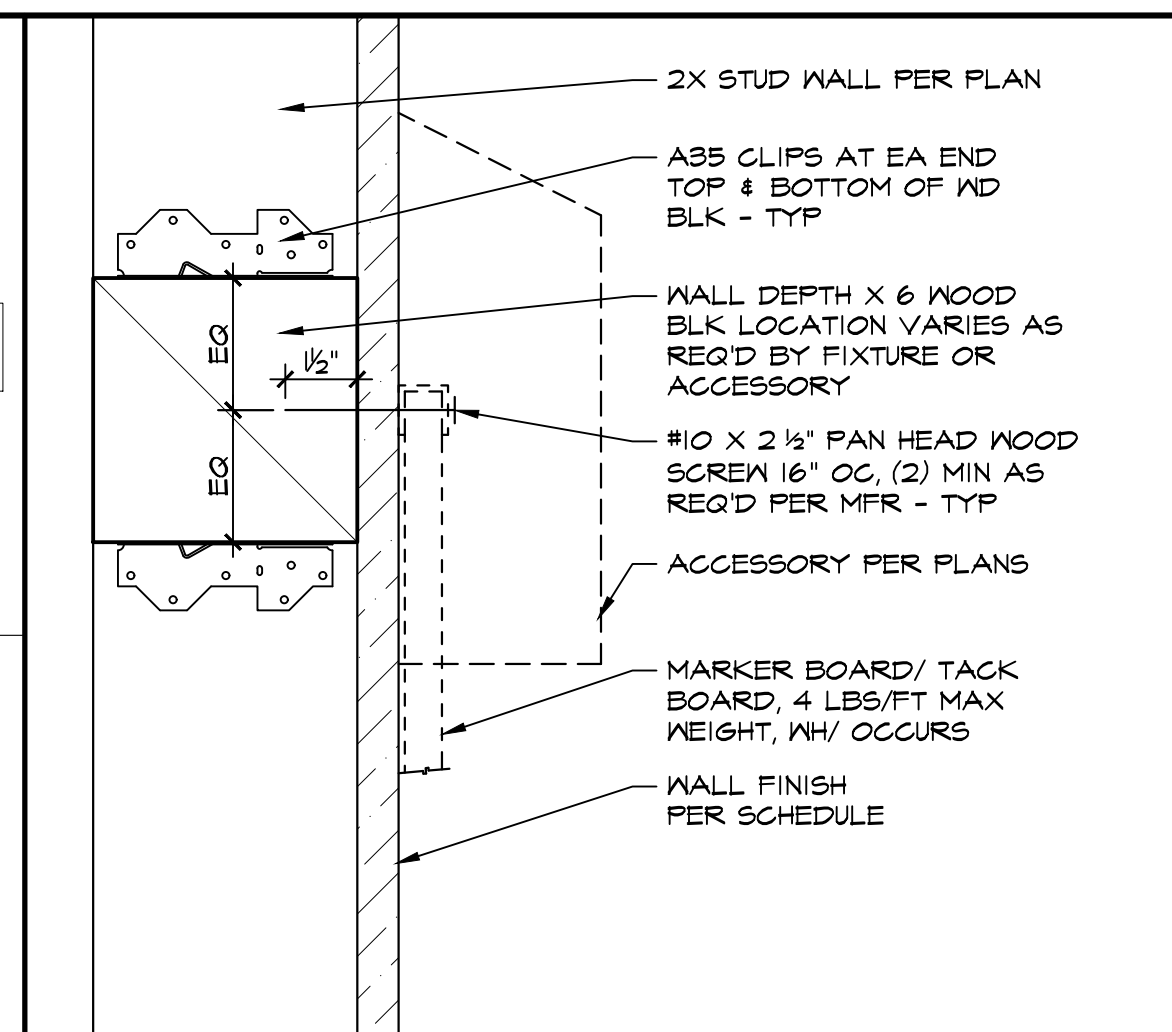
19 PLASTER / ACCESSORIES SCALE: NTS



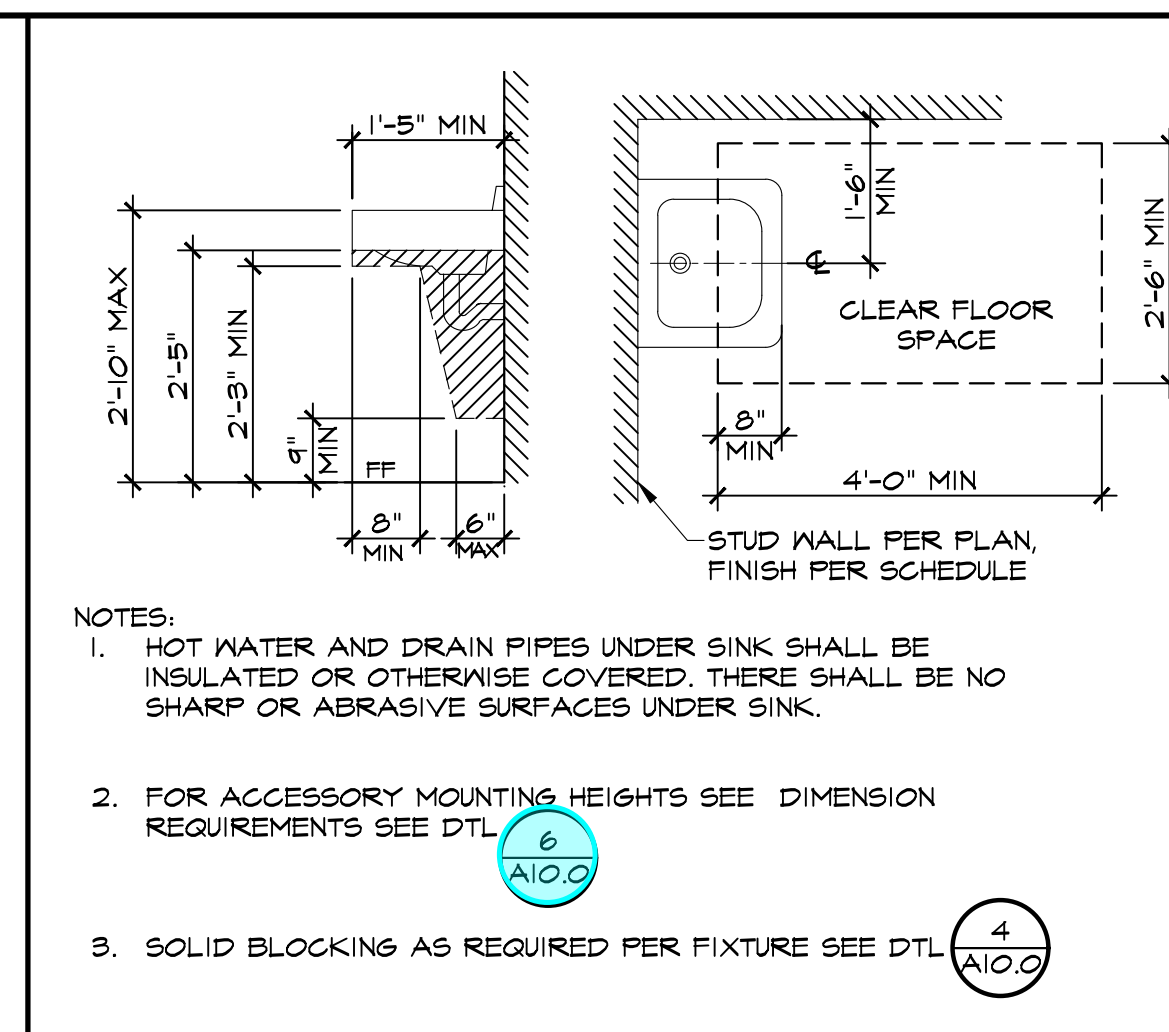
20 TYPICAL CABINET ATTACHMENTS SCALE: AS NOTED



28 CERAMIC TILE SCALE: 3/4" = 1'-0"



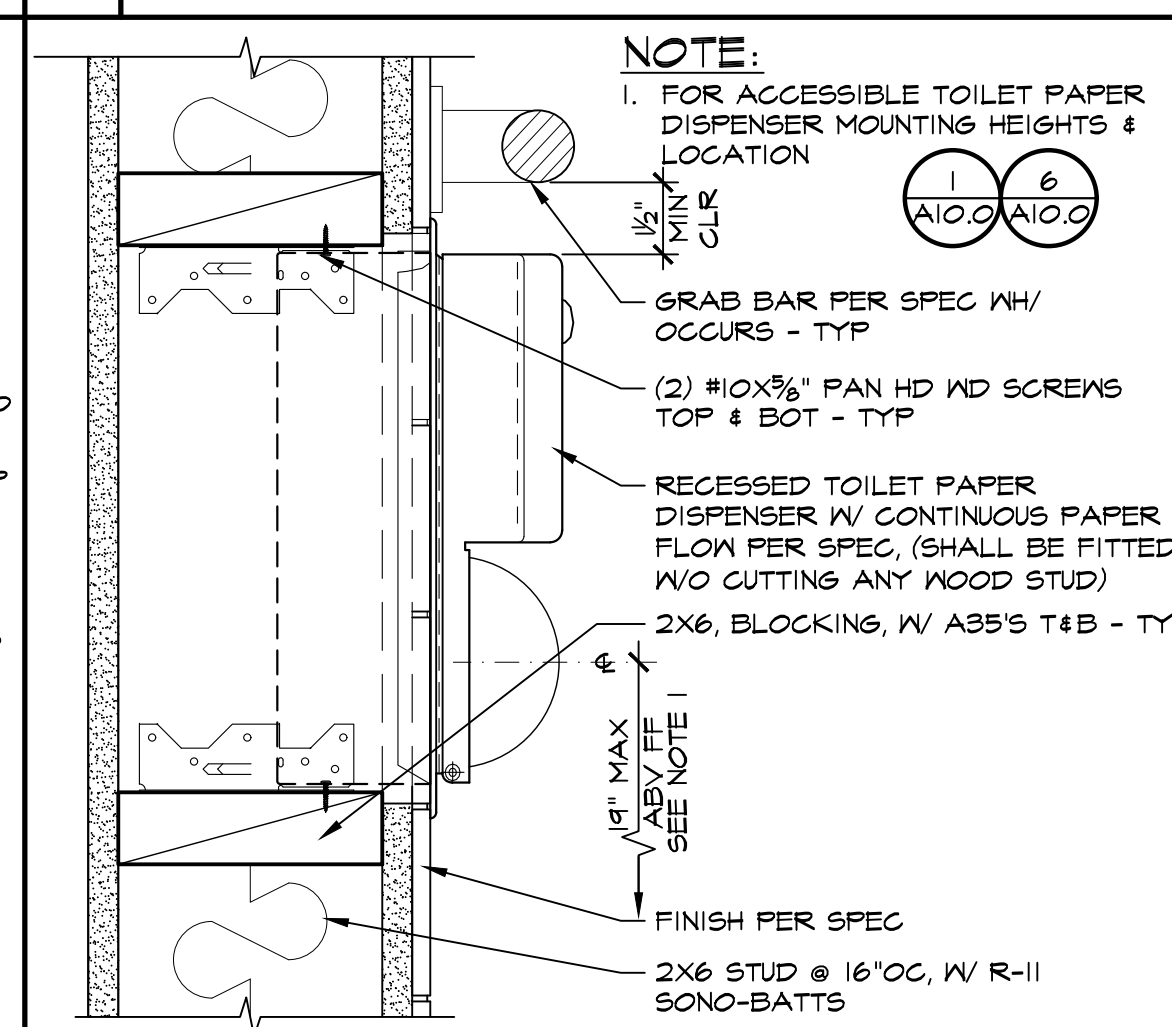
4 ACCESSORY MOUNTING SCALE: 1/2" = 1'-0"



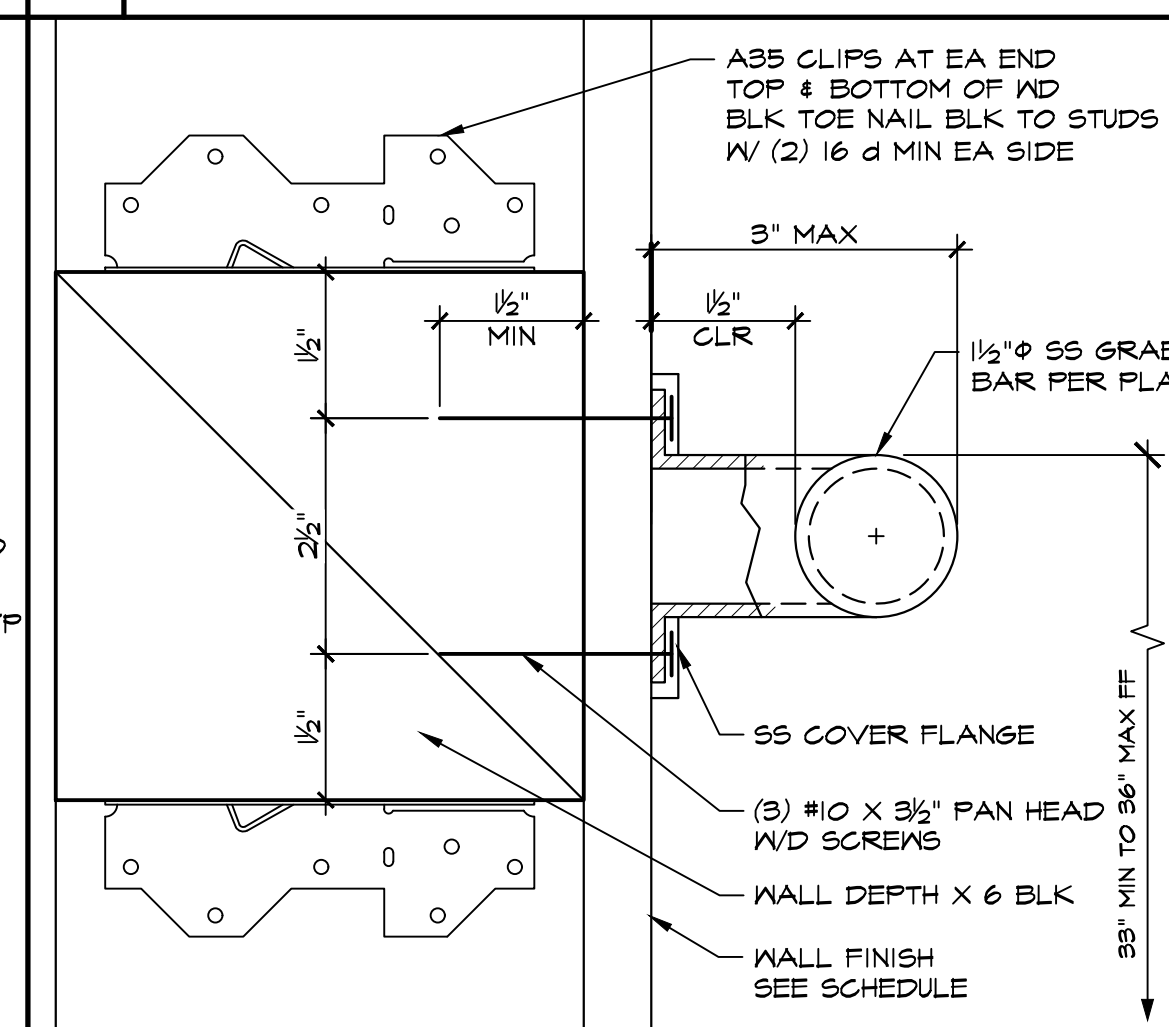
5 LAVATORY REQUIREMENTS SCALE: 1/2" = 1'-0"

DESCRIPTION	AGES 5-8 (INCHES)	AGES 9-12 (INCHES)	ADULT (INCHES)
TOILET CENTERING FROM WALL	12"-15"	15"-18"	17"-18"
TOILET SEAT HEIGHT FF TO TOP OF SEAT	12"-15"	15"-17"	17"-19"
GRAB BAR HEIGHT TO TOP OF RAIL	20"-25"	25"-27"	33"-36"
TOILET PAPER IN FRONT OF TOILET	14"-17"	17"-19"	19" MIN
TOILET PAPER DISPENSER HEIGHT	14"-17"	17"-19"	19" MIN
TOILET DISPOSAL IN FRONT OF TOILET	N/A	12" MAX	12" MAX
ACCESSORIES, DISPENSER CONTROLS	32" MAX	36" MAX	40" MAX
MAX HT OF MIRROR'S BOT REFLECTIVE SURFACE ABOVE FINISH FLOOR	52"	52"	58" MAX MTD 40" @ COUNTER
LAVATORY/SINK TOP HEIGHT	31" MAX	31" MAX	34" MAX
LAVATORY/SINK KNEE CLEARANCE	24" MIN	24" MIN	27" MIN
LAVATORY/SINK DEPTH	45" MAX	61/2" MAX	61/2" MAX
URINAL LIP HEIGHT	17" MAX	17" MAX	17" MAX
URINAL FLUSH HANDLE HEIGHT	32" MAX	31" MAX	44" MAX
DRINKING FOUNTAIN BUBBLER HEIGHT	30" MAX	30" MAX	30" MAX
DRINKING FOUNTAIN KNEE CLEARANCE	24" MIN	24" MIN	27" MIN
RAMP/STAIR HANDRAIL HEIGHT TO TOP OF RAIL	28" MAX	28" MAX	34"-38" MAX

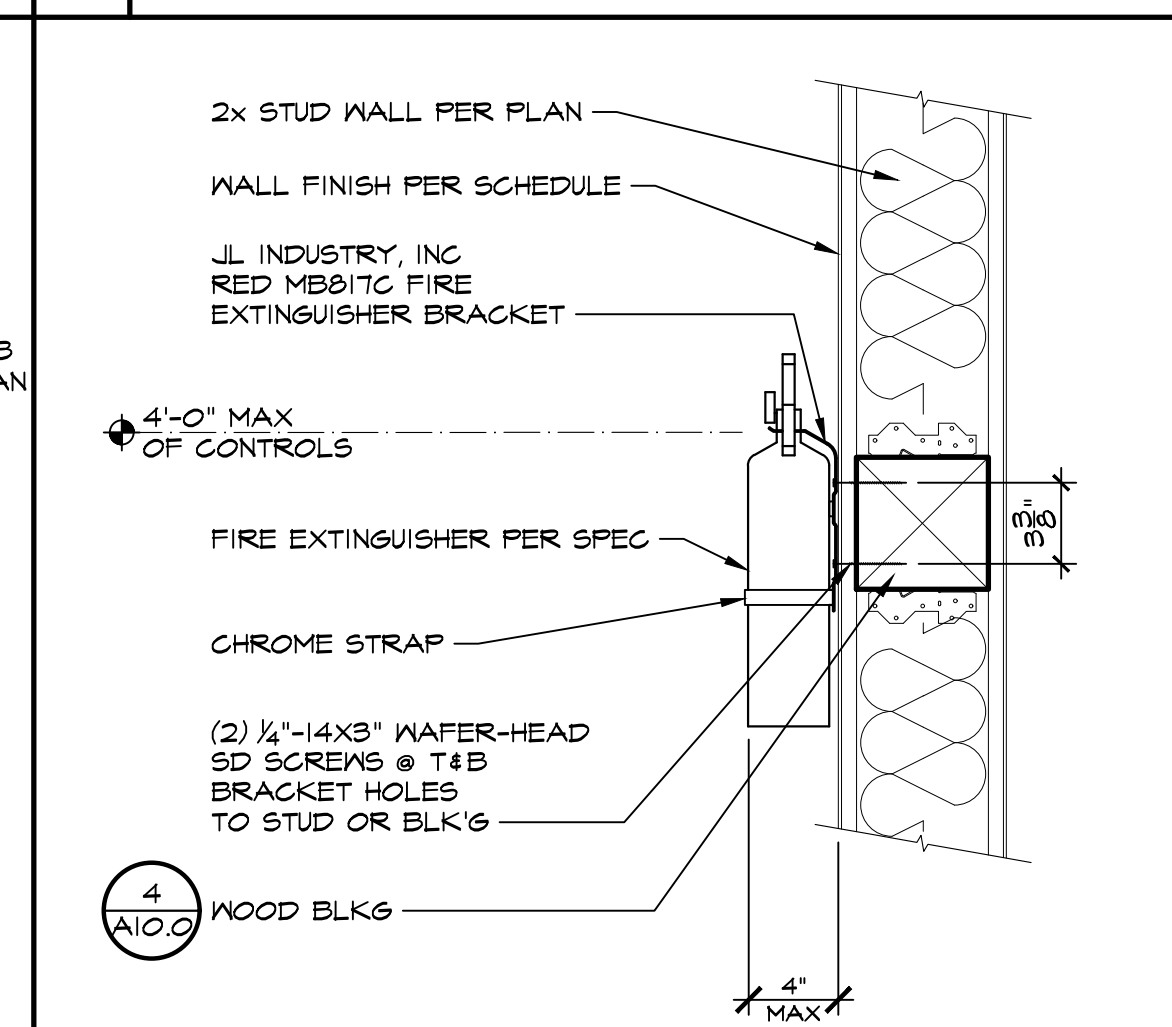
6 DIMENSION REQUIREMENTS SCALE: NTS



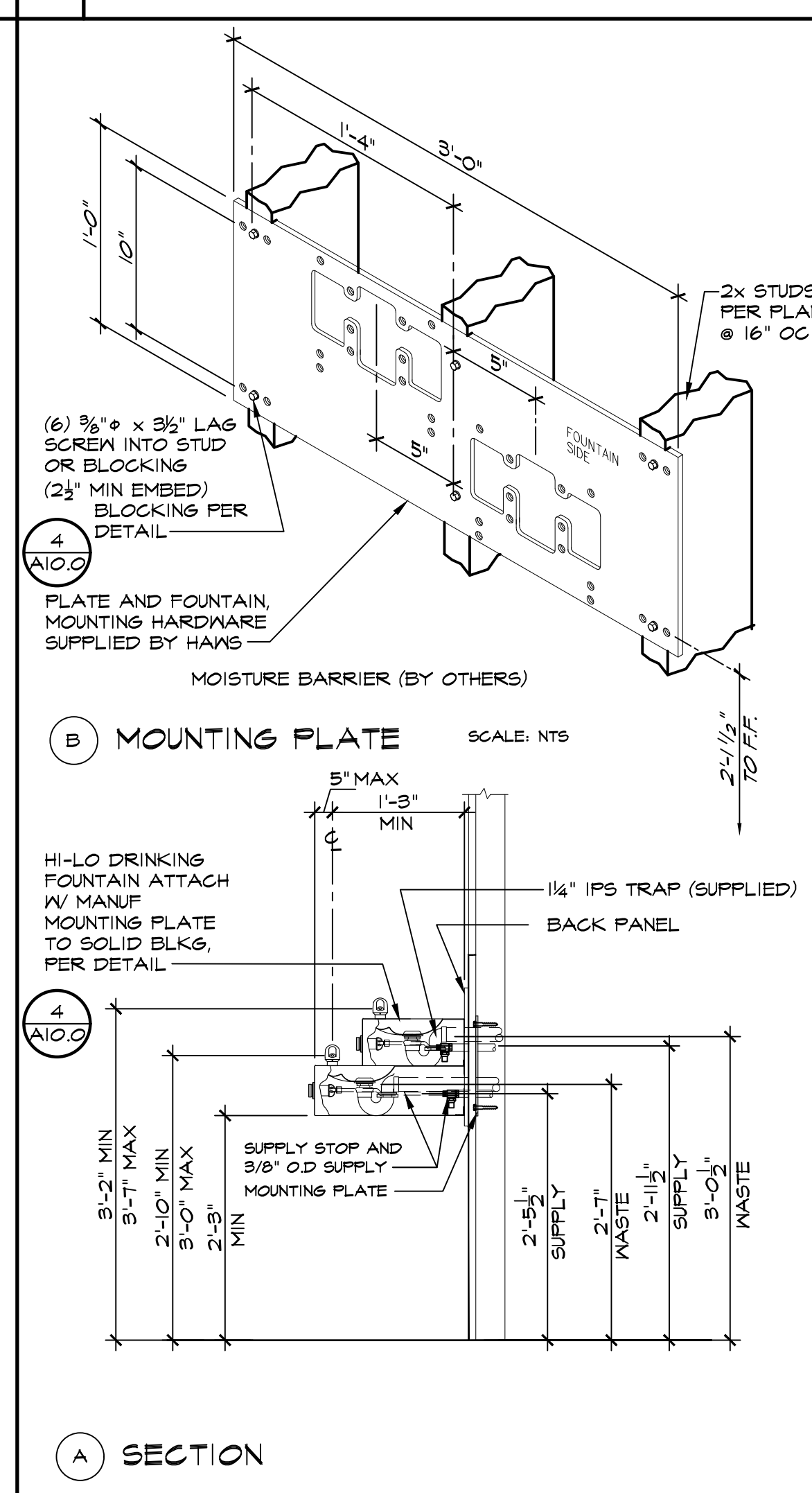
10 TP DISPENSER DETAIL SCALE: 3/4" = 1'-0"



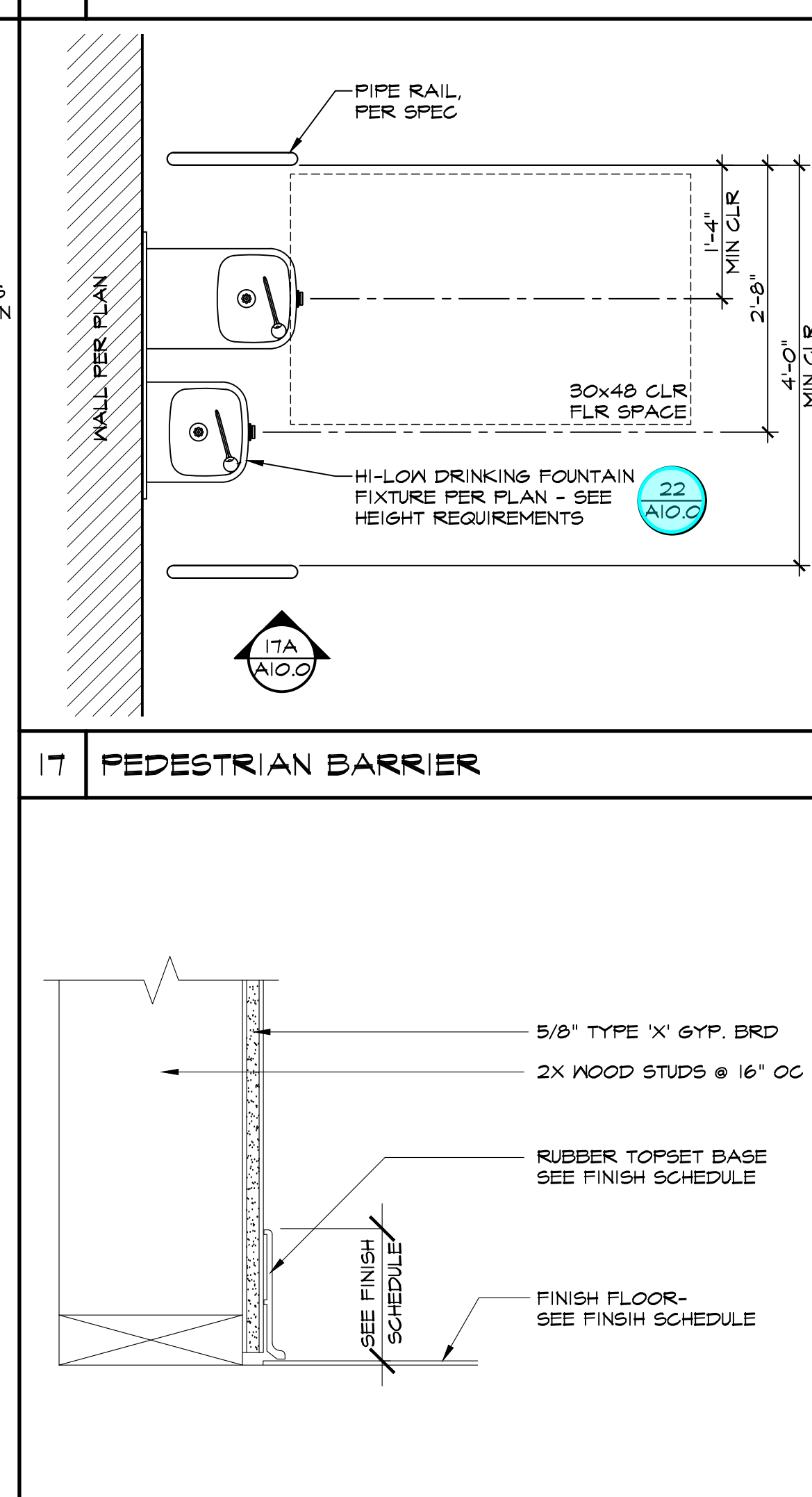
11 GRAB BAR MOUNTING SCALE: 6" = 1'-0"



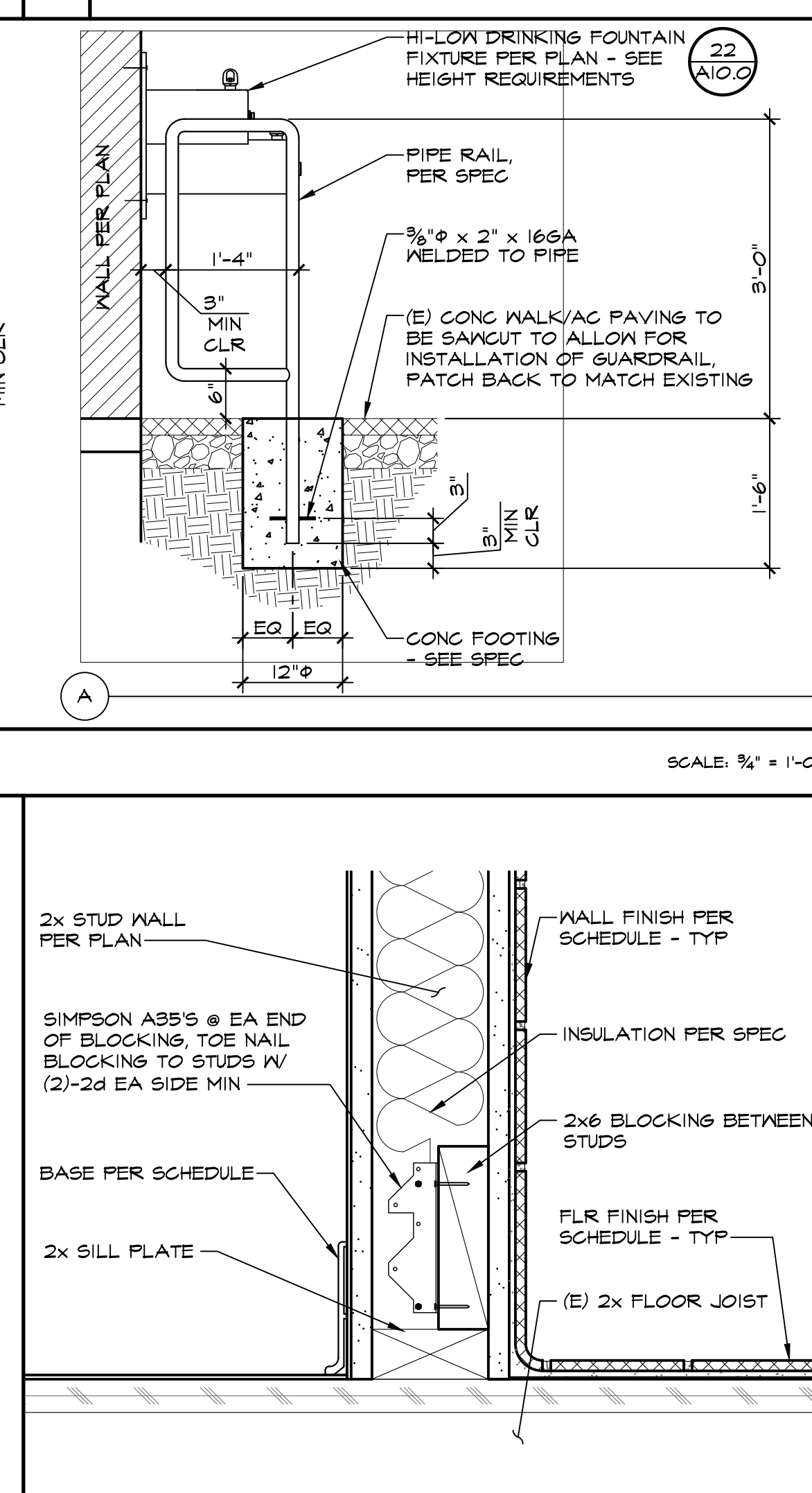
12 FIRE EXTINGUISHER MOUNTING SCALE: 1/2" = 1'-0"



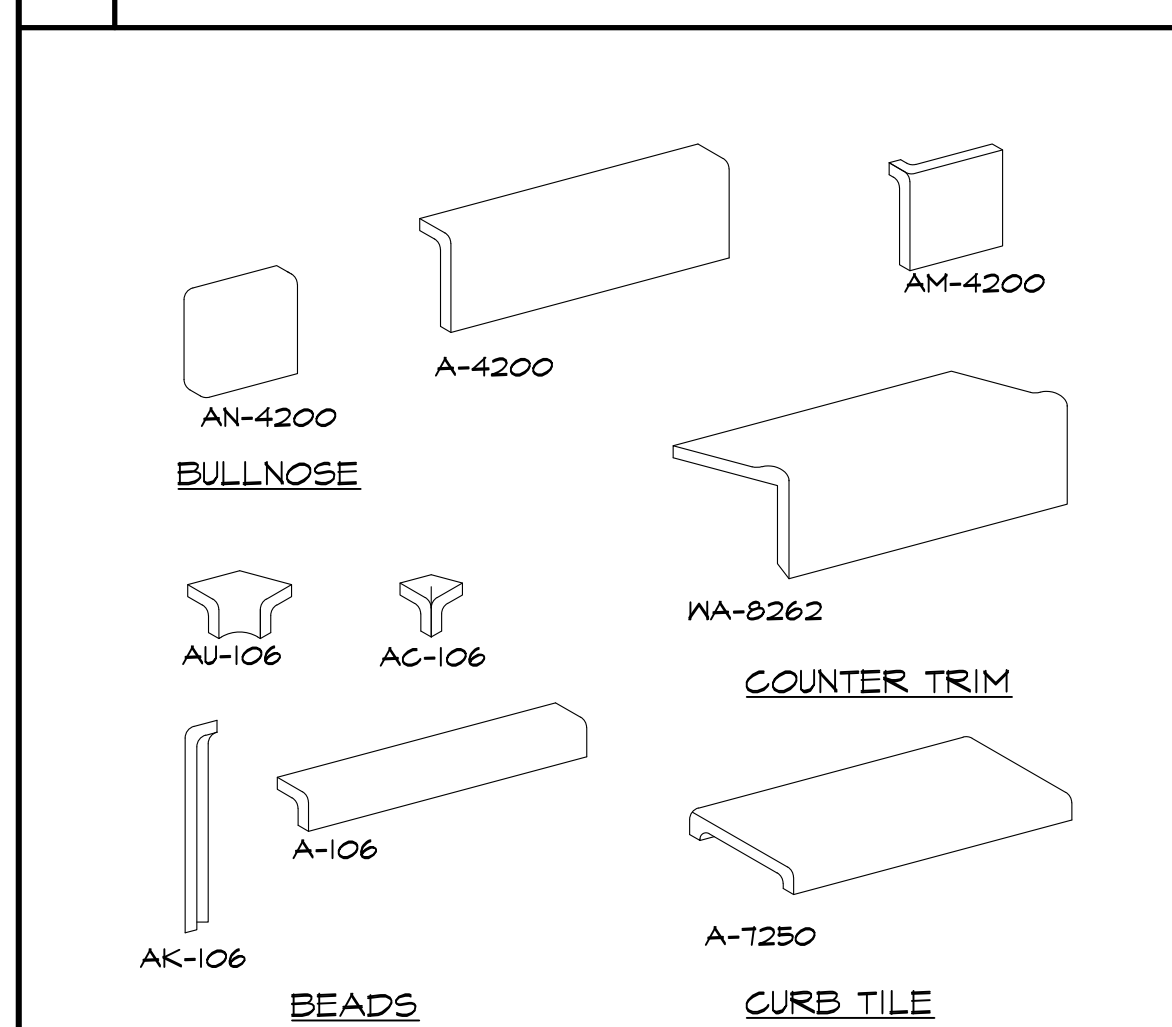
17 PEDESTRIAN BARRIER SCALE: 3/4" = 1'-0"



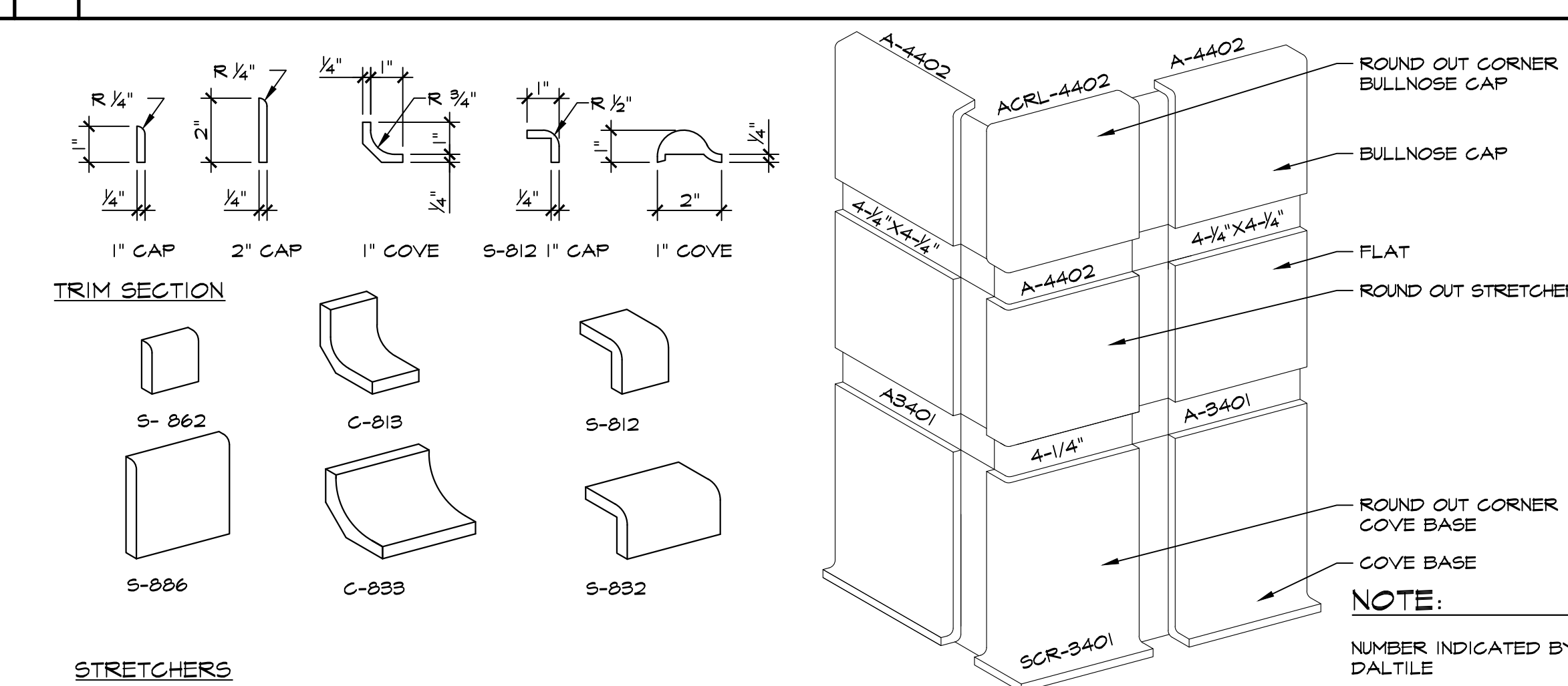
24 WALL FINISH SUPPORT SCALE: 3/4" = 1'-0"



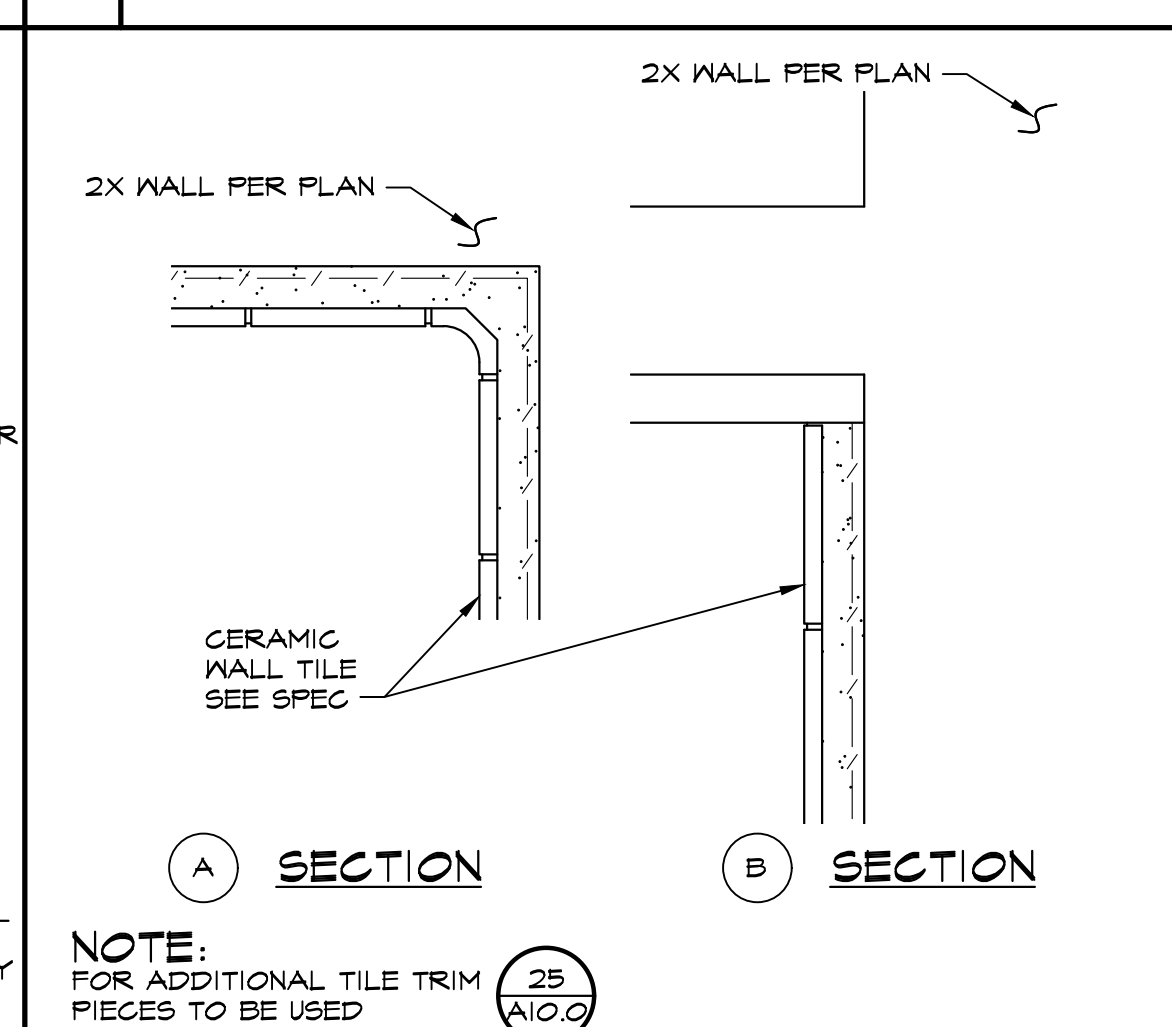
23 RUBBER TOPSET BASE SCALE: 3/4" = 1'-0"



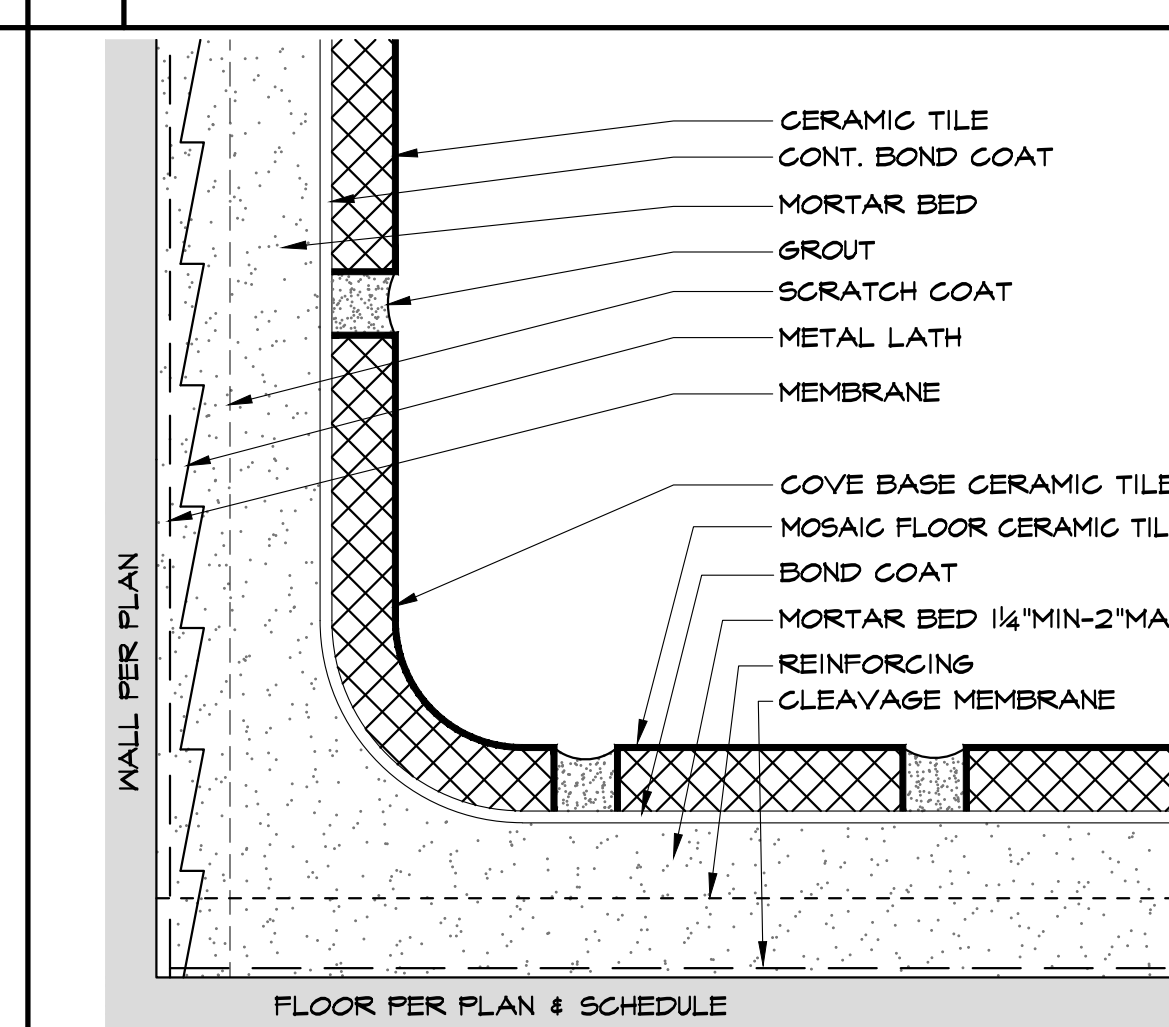
25 TRIM SECTIONS & STRETCHERS SCALE: 3/4" = 1'-0"



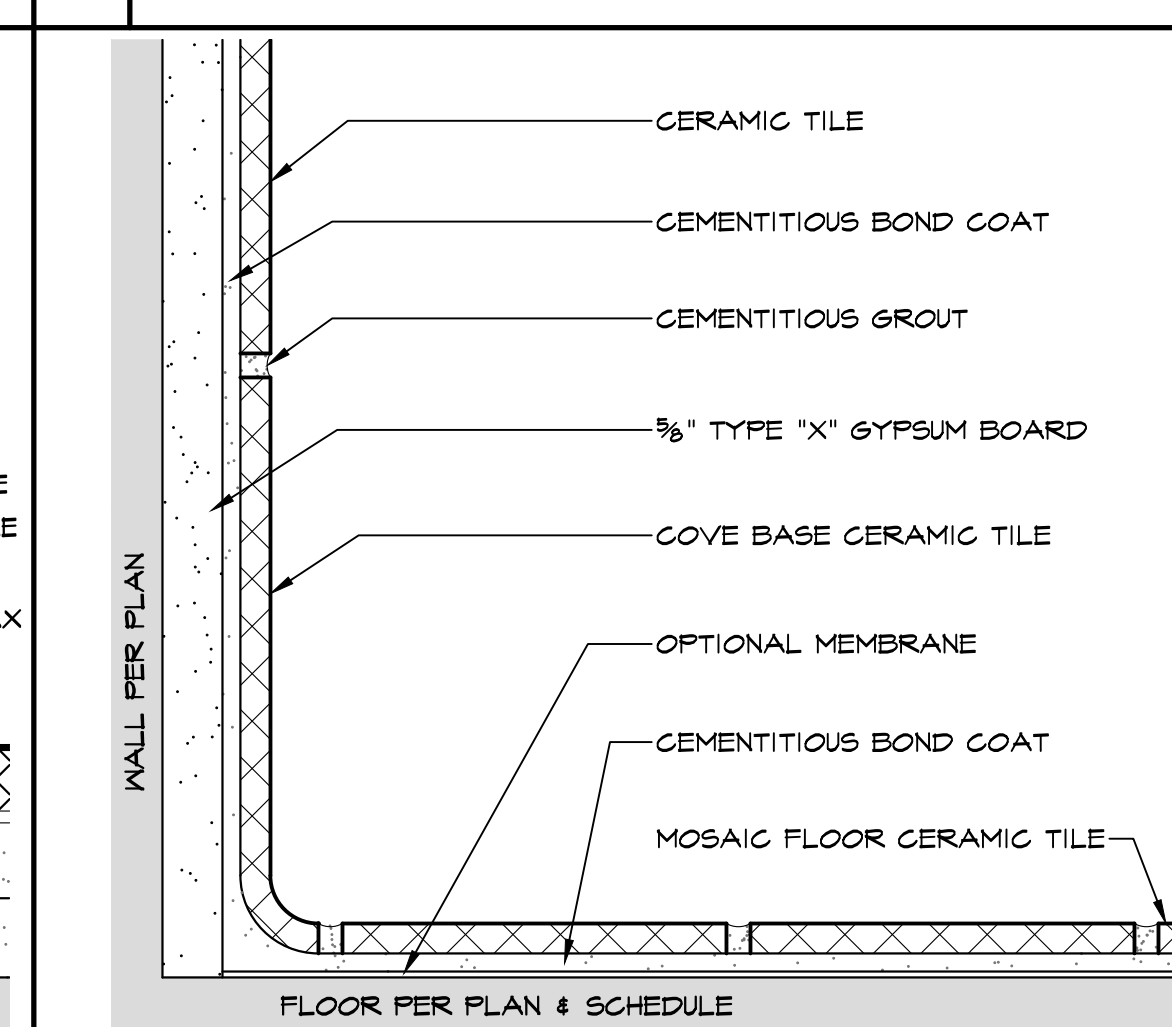
28 CERAMIC TILE SCALE: 3/4" = 1'-0"



29 WALL AND FLOOR TILE SCALE: 3/4" = 1'-0"



30 WALL AND FLOOR TILE SCALE: 3/4" = 1'-0"



30 WALL AND FLOOR TILE SCALE: 3/4" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC.
REVIEWED FOR
SS FLS ACS
DATE: 07/05/2023

PTN: 63321-389 FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT
SCARCHITECT INC.

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

REGISTERED ARCHITECT
STATE OF CALIFORNIA
STEPHEN W. SCARCHITECT, AIA, LEED®-AP
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BAKERSFIELD CITY SCHOOL DISTRICT
SEAL OF THE DISTRICT

DETAILS

MARK	DATE	REVISIONS
△		
△		
△		

JOB NO.
1317
DRAWN:
ED, FS
CHECKED:
BCW
DATE:
4/24/23

10.0
19 OF 67 SHEETS

STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT	JST	JOIST
ABV	ABOVE	JT	JOINT
ADDL	ADDITIONAL		
ALT	ALTERNATE	KSI	KIP PER SQUARE INCH
ANCH	ANCHOR		
&	AND	LBS	POUNDS
ARCH	ARCHITECT(URAL)	LLBB	LONG LEG BACK-BACK
@	AT	LLH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
BF	BRACE FRAME	LONG	LONGITUDINAL
BLDG	BUILDING	LT WT	LIGHT WEIGHT
BLK	BLOCK	LVL	LAMINATED VENEER (LUMBER)
BLKG	BLOCKING	LVL	LEVEL (FLOOR)
BEL	BELOW		
BM	BEAM	MAX	MAXIMUM
BN	BOUNDARY NAILING	MB	MACHINE BOLT
B or BOT	BOTTOM	MECH	MECHANICAL
BRG	BEARING	MEZZ	MEZZANINE
BTWN	BETWEEN	MFR	MANUFACTURER
BU	BUILT-UP	MIN	MINIMUM
BUB	BACK-UP BAR	MISC	MISCELLANEOUS
		MTL	METAL
CAMB(C)	CAMBER(ED)	MS	MIDDLE STRIP
CBC	CALIFORNIA BUILDING CODE		
CG	CENTER OF GRAVITY	(N)	NEW
CIP	CAST IN PLACE	NIC	NOT IN CONTRACT
CJ	CONSTRUCTION JOINT	NO (#)	NUMBER
	OR CONTROL JOINT	NS	NEAR SIDE
CJP	COMPLETE JOINT PENETRATION	NTS	NOT TO SCALE
CLJ(R)	CENTERLINE	NORM WT	NORMAL WEIGHT
CLG	CEILING		
CLR	CLEAR	OC	ON CENTER (NOT NECESSARY)
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
COL	COLUMN	OF	OUTSIDE FACE
CONC	CONCRETE	OH	OPPOSITE HAND
CONN	CONNECTION	O-O	OUT TO OUT
CONT	CONTINUOUS	OPNG	OPENING
CS	COLUMN STRIP		
CRC	COLD ROLLED CHANNEL	PARA	PARALLEL
CTR	CENTER(ED)	PIC	PRECAST
CTRSK	COUNTERSINK	PERP	PERPENDICULAR
C-C	CENTER TO CENTER	PJP	PARTIAL JOINT PENETRATION
		PL (JP)	PLATE
d	PENNEY(NAILS)	PLY	PLYWOOD
DBL	DOUBLE	PSF	POUNDS PER SQUARE FOOT
DET	DETAIL	PSI	POUNDS PER SQUARE INCH
DF	DOUGLAS FIR	PT	PRESSURE TREATED
DIA(Q)	DIAMETER	P/T	POSTTENSIONED(PRESTRESSED)
DIAG	DIAGONAL		
DIM	DIMENSION	RAD (R)	RADIUS
DN	DOWN	REF	REFERENCE
DO	DITTO (REPEAT)	REQD	REQUIRED
DP	DEEP	REINF	REINFORCEMENT(ING)
DWG	DRAWING	RJ	ROOF JOIST
DWL	DOWELS		
		SC	SLIP CRITICAL
EA	EACH	SEP	SEPARATION
EBF	ECCENTRIC BRACE FRAME	SCHED	SCHEDULE
EF	EACH FACE	SFRS	SEISMIC FORCE RESISTING SYSTEM
EJ	EXPANSION JOINT	SIM	SIMILAR
ELEC	ELECTRICAL	SIMP	SIMPSON
ELEV	ELEVATION/ELEVATOR	SHT	SHEET
EMBED	EMBEDMENT	SHTG	SHEATHING
EN	EDGE NAILING	SLBB	SHORT LEB BACH-BACK
EO	EQUAL	SLV	SHORT LEB VERTICAL
EQUIP	EQUIPMENT	SMS	SHEET METAL SCREWS
ES	SIDE EACH	SOG	SLAB ON GRADE
EW	EACH WAY	SPECS	SPECIFICATIONS
EXIST(E)	EXISTING	SP	SPACE (S)
EXP	EXPANSION	SQ	SQUARE
EXT	EXTERIOR	SSC	SINGLE SHEAR CONNECTION
		STAGG	STAGGER(ED)
FIN	FINISH(ED)	SS	STAINLESS STEEL
FLR	FLOOR	STD	STANDARD
FDN	FOUNDATION	STIFF	STIFFENER
FLG	FLANGE	STL	STEEL
FN	FIELD NAILING	STRUC	STRUCTURAL
FOB	FACE OF BLOCK OR BRICK	SYMM	SYMMETRICAL
FOC	FACE OF CONCRETE		
FO PLY	FACE OF PLYWOOD	T & B	TOP AND BOTTOM
FOS	FACE OF STUDS	T & G	TONGUE AND GROOVE
FMG	FRAMING	TEMP	TEMPORARY
FS	FAR SIDE	THK	THICKNESS)
FT	FOOT	THRD	THREADED
FTG	FOOTING	THRU	THROUGH
		TP	TOP OF PARAPET
GA	GAGE	T PLY	TOP OF PLYWOOD
GALV	GALVANIZED	TRANS	TRANSVERSE
GB	GRADE BEAM	TOC	TOP OF CONCRETE
GL	GRID LINE	TOS	TOP OF STEEL
GLB	GLUE-LAMINATED BEAM	TSG	TAPERED STEEL GIRDER
		TOW	TOP OF WALL
HCA	HEADED CONCRETE ANCHOR	TYP	TYPICAL
HD	HOLD DOWN		
HDR	HEADER	UNO	UNLESS NOTED OTHERWISE
HGR	HANGER		
HORIZ	HORIZONTAL	VERT	VERTICAL
HSB	HIGH STRENGTH BOLT		
HS	HIGH STRENGTH	W/	WITH
HT	HEIGHT	WBS	WELDED BEAM SEAT
		WD	WOOD
IBC	INTERNATIONAL BUILDING CODE	WP	WORK POINT
ID	INSIDE DIAMETER	WPJ	WEAKENED PLANE JOINT
IF	INSIDE FACE	WS	WELDED STUDS
IN	INCH	WT	WEIGHT
INFO	INFORMATION	WWF	WELDED WIRE FABRIC
INT	INTERIOR		

INSPECTION / TESTING

1.

AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS SHALL BE RETAINED BY THE OWNER TO PERFORM THE TESTS AND INSPECTION AS REQUIRED BY SECTION 1704 OF THE CALIFORNIA BUILDING CODE. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE SPECIAL INSPECTOR TO THE SITE OR FABRICATION SHOPS AND SHALL FURNISH SAMPLES OF MATERIALS FOR TESTING AS REQUESTED BY THE TESTING AGENCY AND THE GOVERNING CODE.
2.

IF INITIAL TESTS OR INSPECTIONS MADE BY THE OWNER'S TESTING AGENCY REVEAL THAT ANY PORTION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, ADDITIONAL TESTS, INSPECTIONS, AND NECESSARY REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.
3.

PROVIDE CONTINUOUS OR PERIODIC SPECIAL INSPECTION FOR ITEMS NOTED IN "DSA-103: TEST AND INSPECTIONS FORM", AS REQUIRED PER THE CHAPTER 17A OF THE CALIFORNIA BUILDING CODE AND ALL APPLICABLE AMENDMENTS, UNLESS NOTED OTHERWISE IN SPECIFICATIONS.
4.

SPECIAL INSPECTIONS MAY NOT BE REQUIRED WHEN THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED BY THE BUILDING OFFICIAL OR GOVERNING AGENCY HAVING JURISDICTION OVER THE PROJECT TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
5.

APPROVAL BY THE INSPECTOR OF MATTERS NOT SPECIFICALLY CONSTRUCTED PER THE APPROVED DRAWINGS DOES NOT MEAN THE FAILURE TO COMPLY WITH THE CONSTRUCTION DOCUMENTS HAS BEEN ACCEPTED. ANY DETAIL THAT FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE STRUCTURAL ENGINEER FOR INTERPRETATION OR CLARIFICATION.
6.

INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER WITHIN SEVEN DAYS OF WHEN THE INSPECTION WAS MADE OR WHEN THE TESTING WAS PERFORMED.
7.

THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY INSPECTION OR TESTING WHICH DOES NOT COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

GENERAL CONTINUED

23.

ALLOW SEVEN WORKING DAYS FOR PROCESSING SHOP DRAWINGS OTHER THAN STRUCTURAL STEEL & DESIGN-BUILD ITEMS AFTER RECEIPT BY THE STRUCTURAL ENGINEER. ALLOW FOURTEEN WORKING DAYS FOR PROCESSING STRUCTURAL STEEL & DESIGN-BUILD ITEMS SHOP DRAWINGS. SHOP DRAWINGS AND SUBMITTALS WILL BE REVIEWED A MAXIMUM OF TWO TIMES.
24.

THE LATERAL SYSTEM OF THE STRUCTURE IS DESIGNED WITH LATERAL RESTRAINT AT THE GROUND FLOOR. STRUCTURAL FRAMES ARE NOT Laterally self supporting UNTIL THE ENTIRE DESIGN LATERAL RESTRAINT FLOOR AND STRUCTURAL WALLS BELOW ARE IN PLACE.
25.

DO NOT SPLICE STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED AND INDICATED IN THIS SET OF DRAWINGS. DO NOT PLACE OPENINGS, POCKETS, ETC. IN STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED AND INDICATED IN THIS SET OF STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER IF DRAWINGS BY OTHERS REQUIRE MODIFICATIONS TO STRUCTURAL MEMBERS AS SHOWN IN THIS SET OF STRUCTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
26.

DESIGN LOADS:

A.

DEAD LOADS: CONSIST OF BUILDING SELF-WEIGHT PLUS SUPERIMPOSED DEAD LOADS. REFER TO COMPLETE SET OF DRAWINGS FOR DETERMINING DEAD LOADS.

B.

LIVE LOADS:

AREA	DESIGN LIVE LOAD	REMARK
ROOF	20 PSF	REDUCIBLE

C.

SEISMIC DESIGN LOADS:

SEISMIC IMPORTANCE FACTOR I_p	= 1.0
RISK CATEGORY	= III
R_p	= 2.5
R_d	= 6
SITE CLASS	= D (DEFAULT)
S_{ms}	= 0.752
SEISMIC DESIGN CATEGORY	= D
z/h	= 1
27.

SEISMIC IMPORTANCE FACTOR I_p = 1.0
RISK CATEGORY = III
 R_p = 2.5
 R_d = 6
SITE CLASS = D (DEFAULT)
 S_{ms} = 0.752
SEISMIC DESIGN CATEGORY = D
 z/h = 1
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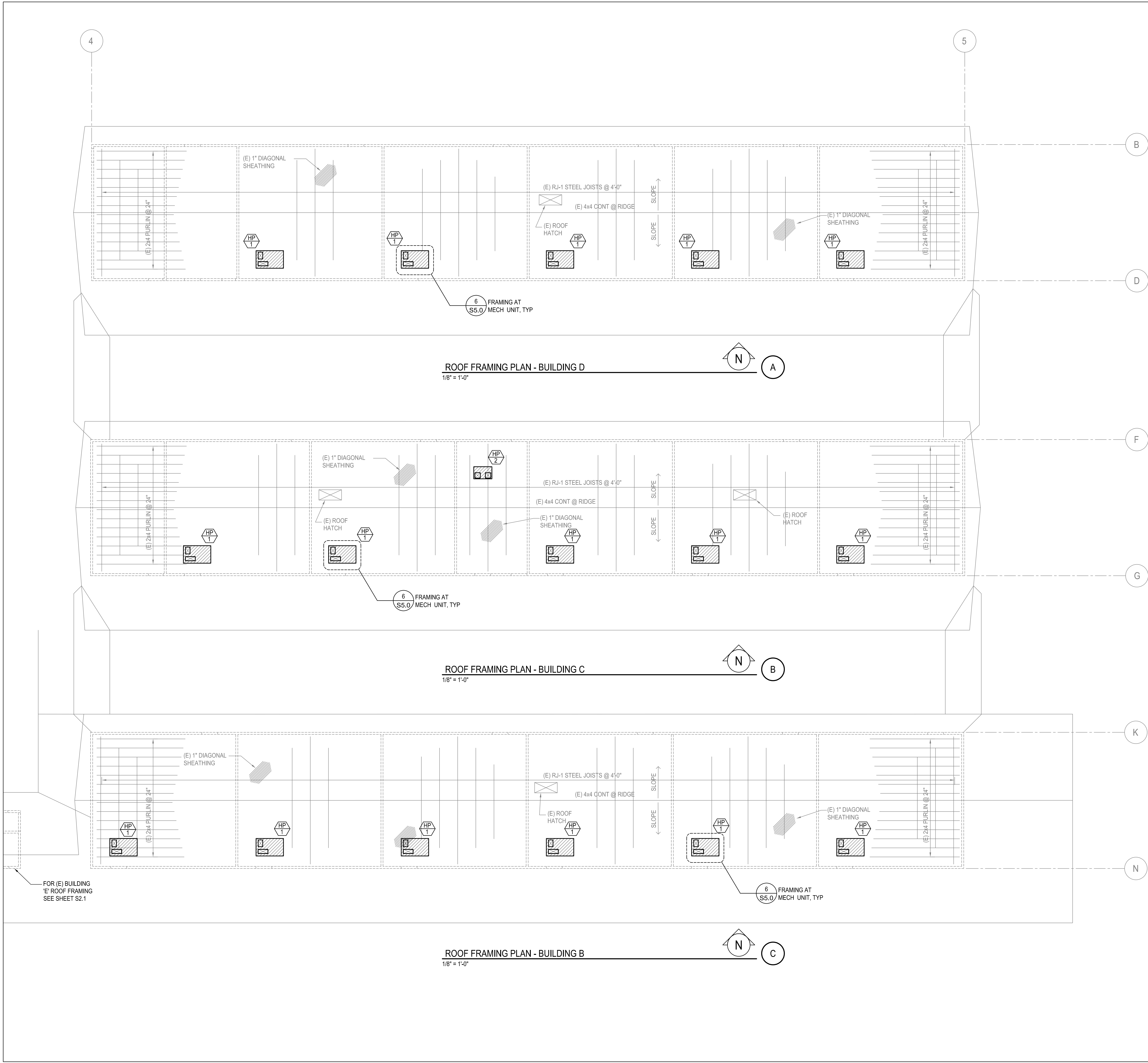
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SEISMIC



FRAMING NOTES

- REFER TO GENERAL NOTES AND TYPICAL DETAILS ON SHEETS S0.1 AND S5.0.
- REFER TO AND CHECK WITH ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- REFER TO AND CHECK WITH MECHANICAL DRAWINGS FOR DUCT OPENINGS, EQUIPMENT SIZE AND LOCATION, ETC. LOCATE SUPPORTING MEMBERS ACCORDINGLY.
- HATCHED AREA INDICATES MECHANICAL UNIT. COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
- INDICATES MECHANICAL UNIT. SEE SCHEDULE ON THIS SHEET FOR EQUIPMENT WEIGHTS. COORDINATE WITH MEP DRAWINGS, TYPICAL.

ROOF EQUIPMENT WEIGHT SCHEDULE	
UNIT MARK	MAX OPER WT + CURB (LBS)
HP-1	950
HP-2	400
HP-3	1000

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/05/2023

PTN : 63321- FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT
S
inc.

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

SEAL OF ARCHITECT
STEPHEN J. CARP, AIA, LEED AP
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

KERN HIGH SCHOOL DISTRICT
Tradition of Excellence
EST. 1992

PARTIAL ROOF FRAMING PLANS

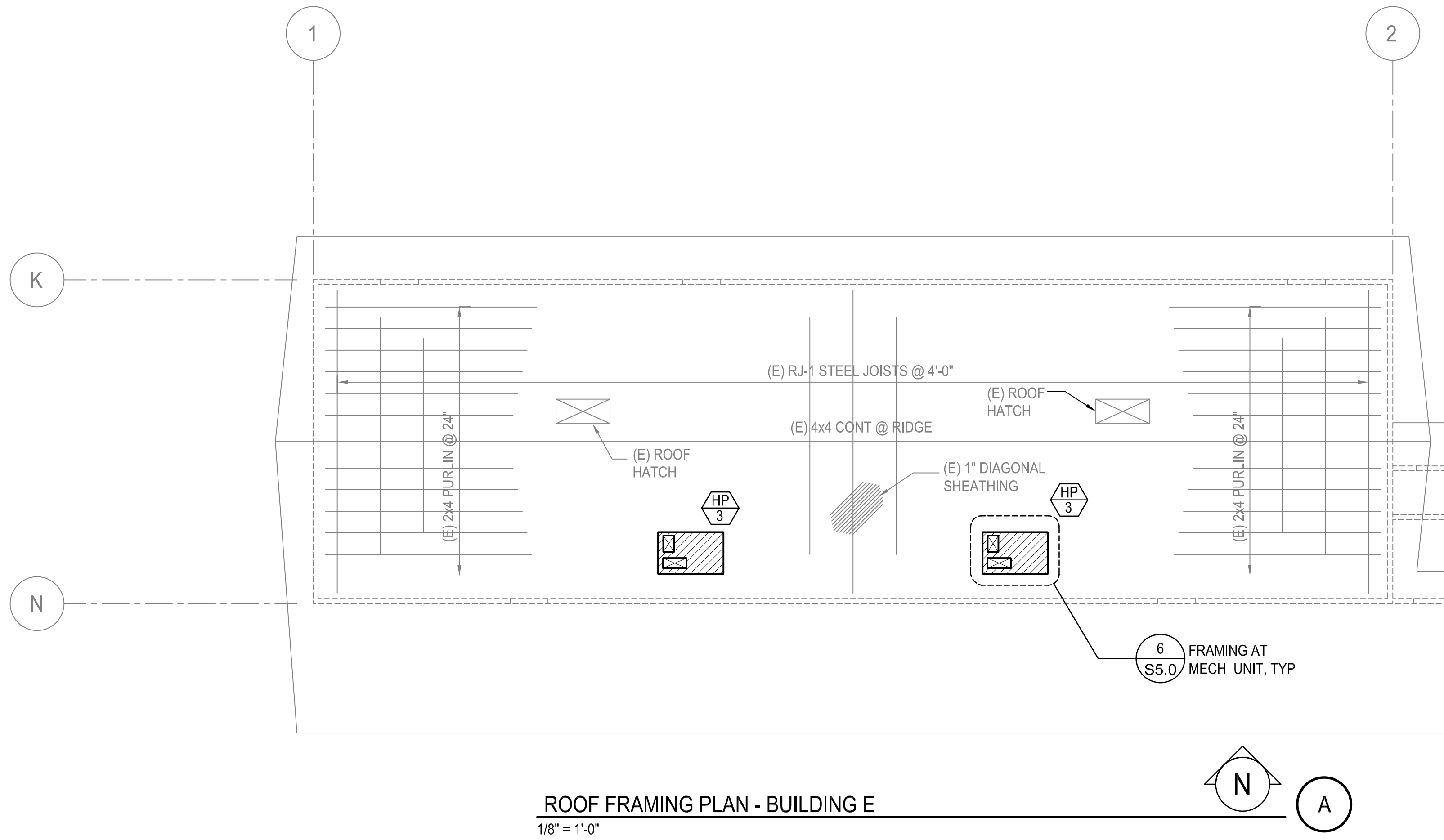
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JOB NO.
J21323
DRAWN :
JAMA
CHECKED :
JAMA
DATE:
03/17/23

2.0
OF SHEETS

REGISTERED PROFESSIONAL ENGINEER
No. 56869
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED:
03/17/2023

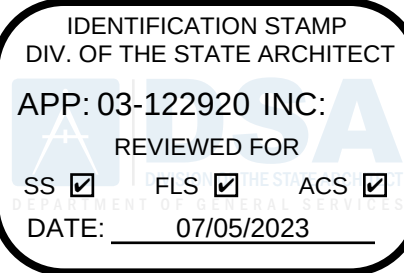
MARTIN & ASSOCIATES
JOHN A. MARTIN
Structural Engineers
950 S. Grand Avenue
Los Angeles, Calif. 90015
Phone (213) 483-6490
Fax (213) 483-3094
J21323



FRAMING NOTES

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- REFER TO AND CHECK WITH ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
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-  HATCHED AREA INDICATES MECHANICAL UNIT. COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
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ROOF EQUIPMENT WEIGHT SCHEDULE	
UNIT MARK	MAX OPER WT + CURB (LBS)
HP-1	950
HP-2	400
HP-3	1000

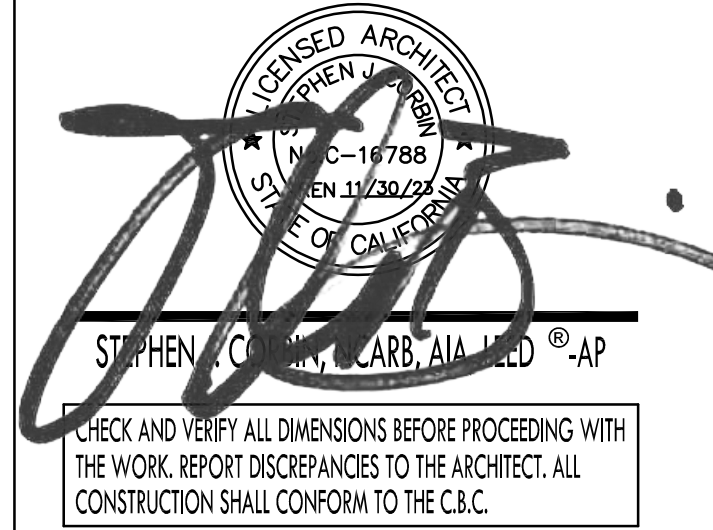


PTN : 63321- FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
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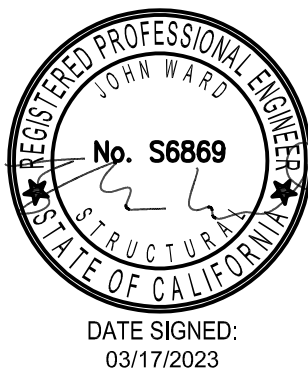
PARTIAL ROOF FRAMING PLAN

MARK	DATE	REVISIONS
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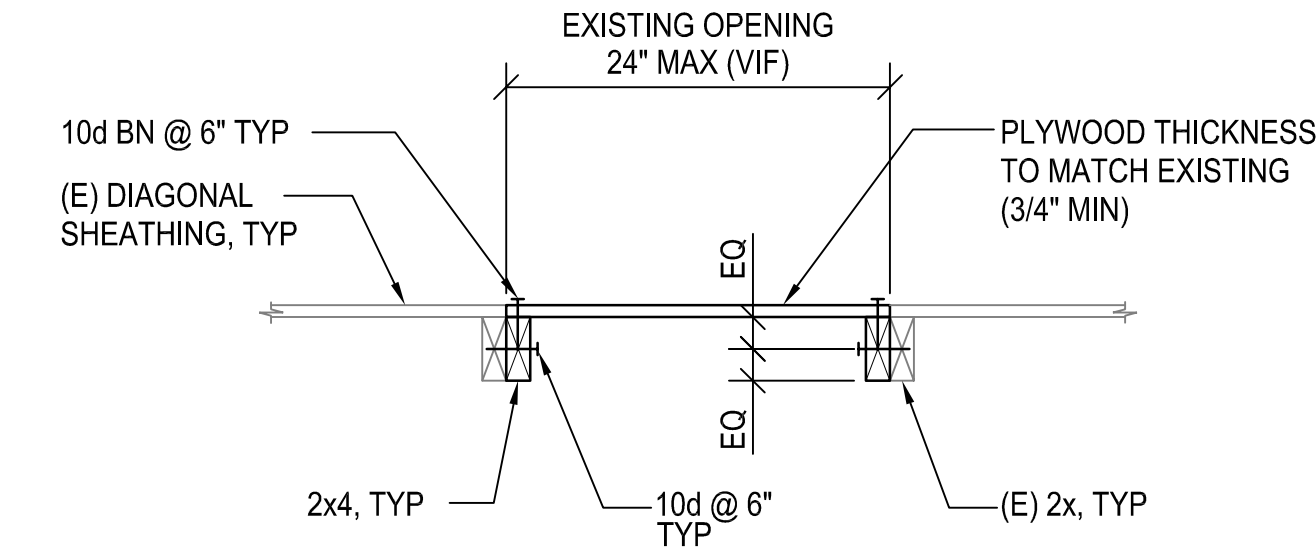
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DATE :
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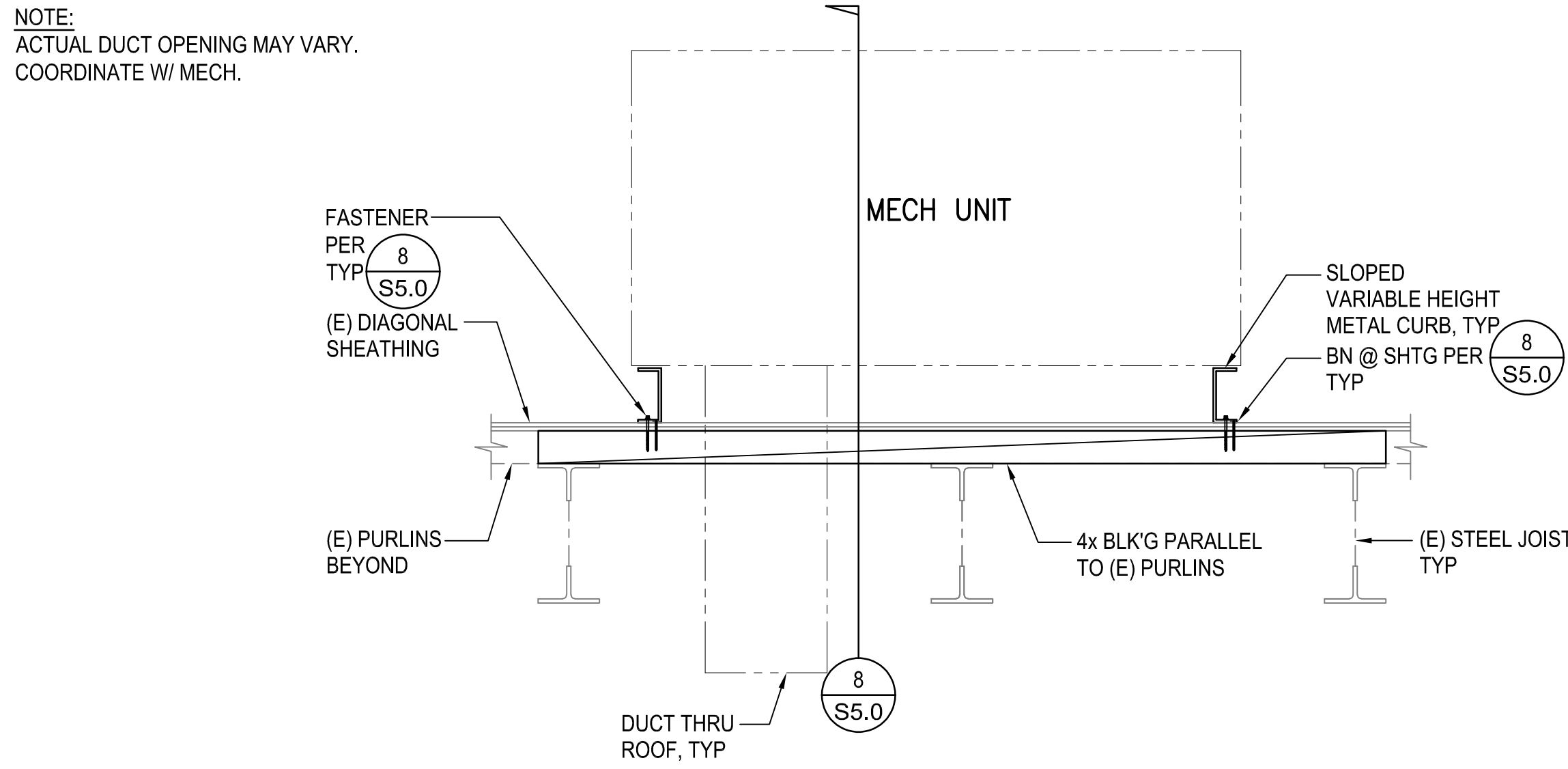
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J21323



EXISTING VENT OPENING INFILL DETAIL

1" = 1'-0"

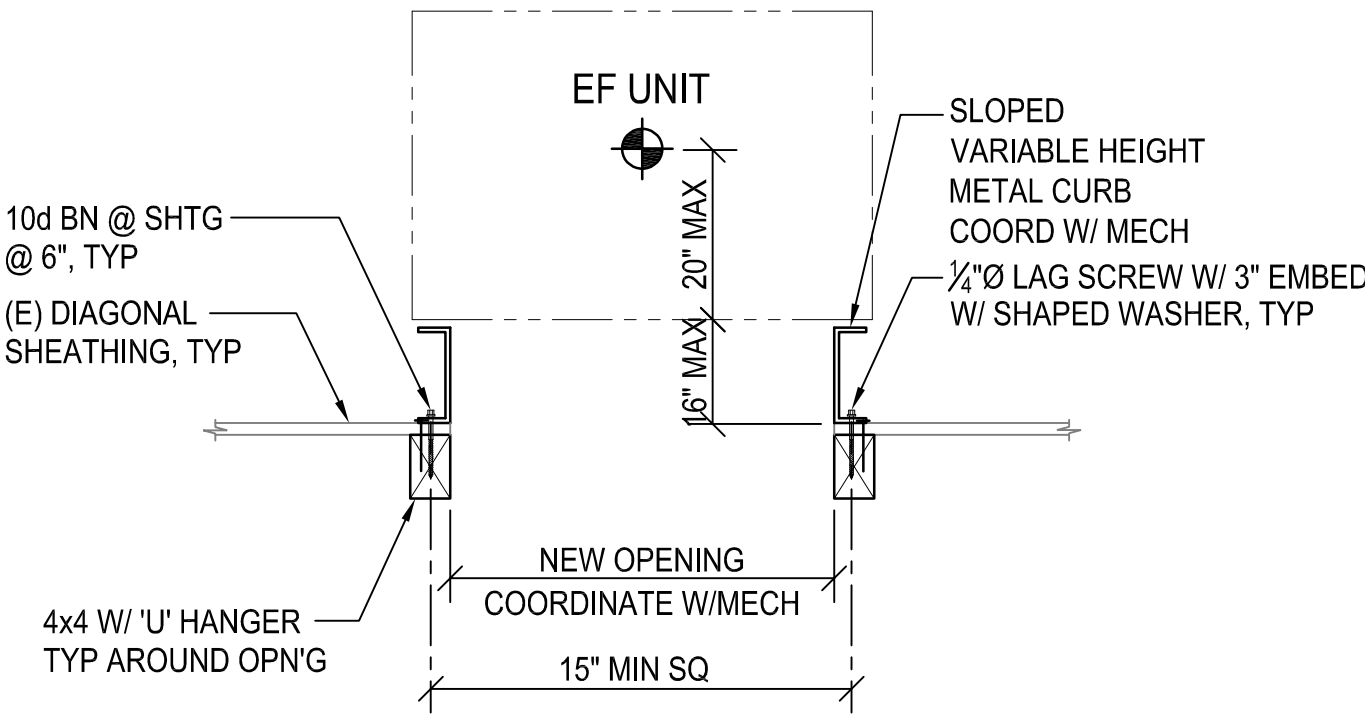
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SECTION

3/4" = 1'-0"

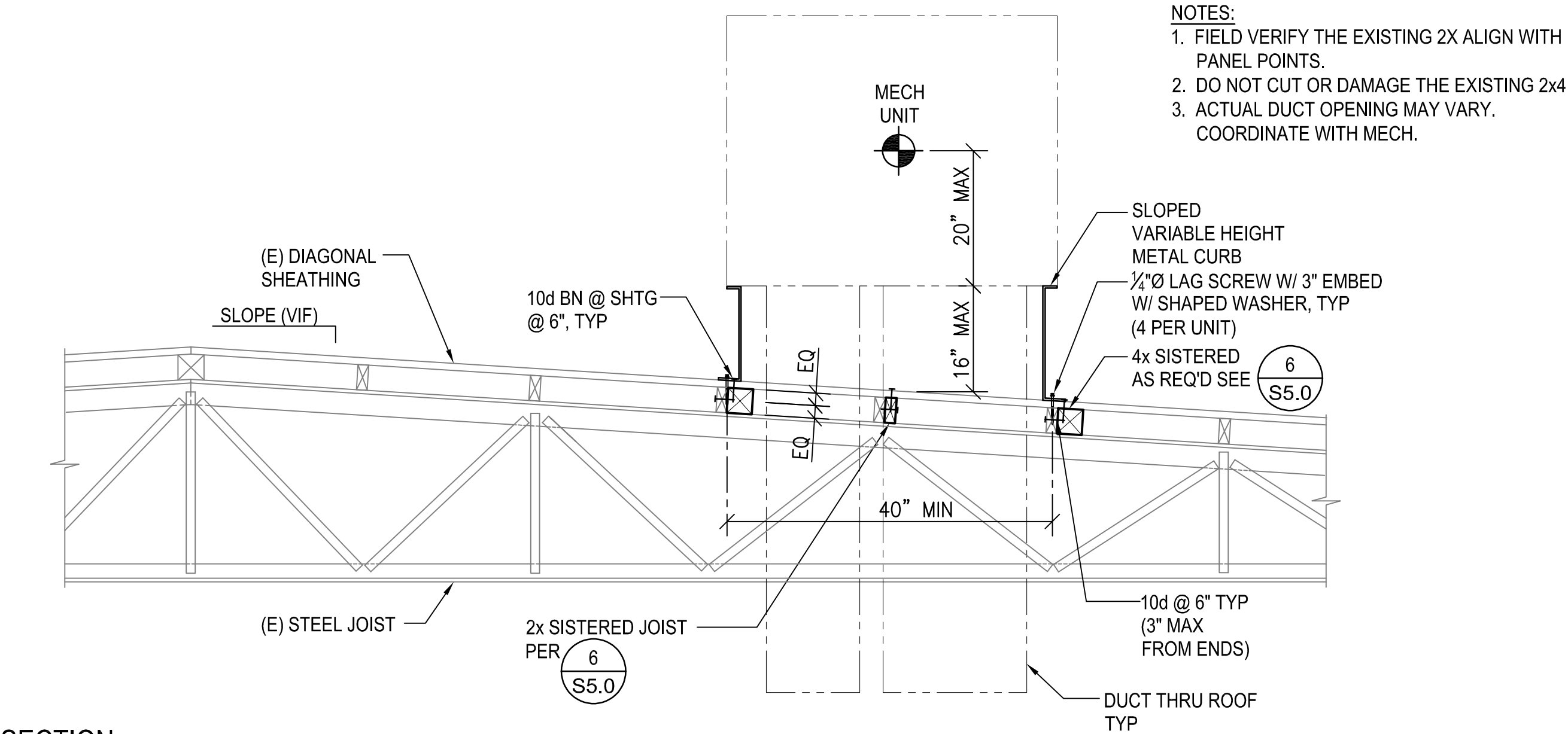
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FRAMING AT EF UNIT

1" = 1'-0"

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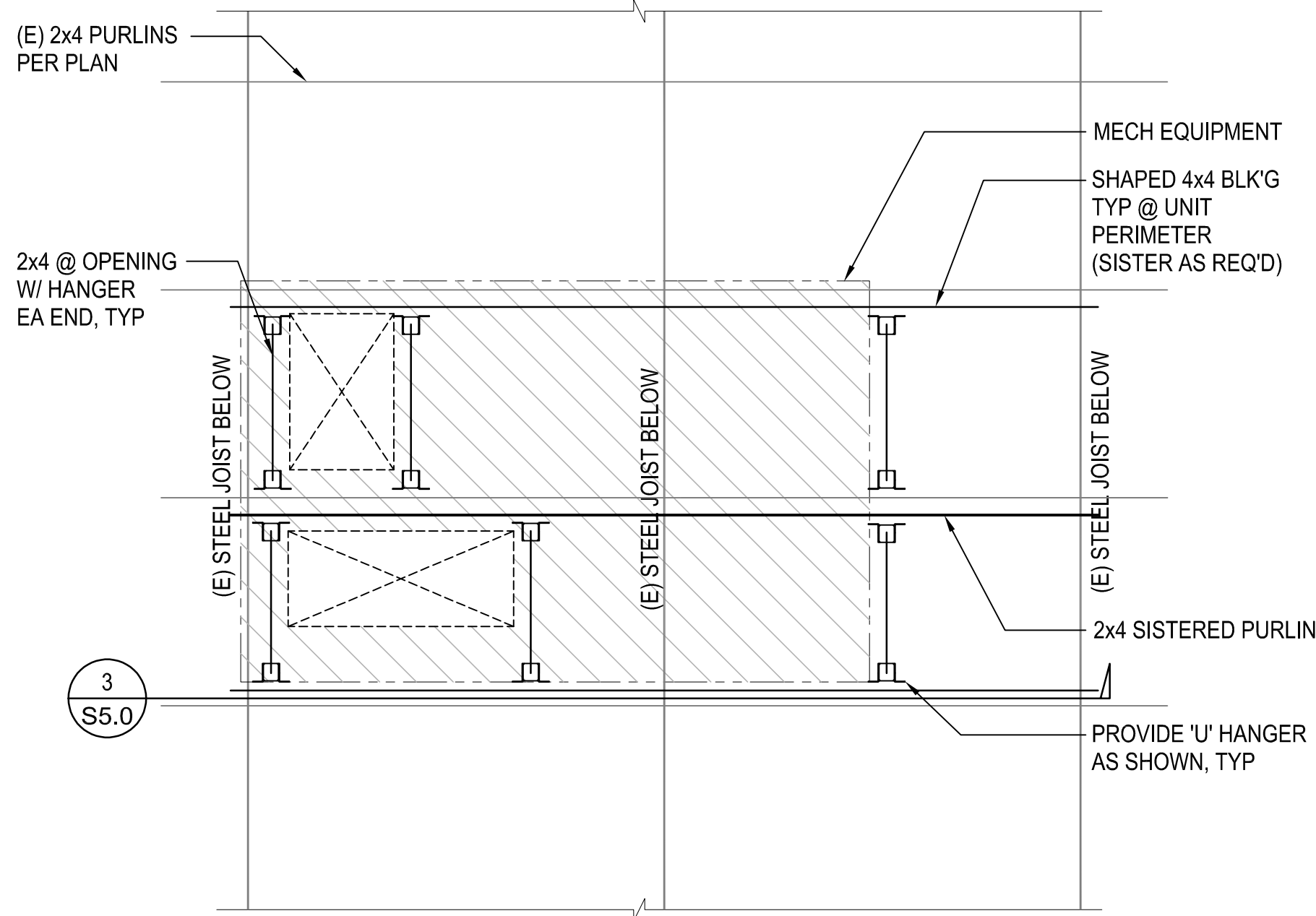
SECTION

3/4" = 1'-0"

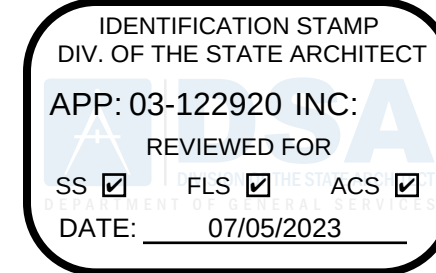
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PARTIAL FRAMING PLAN AT MECH UNIT

3/4" = 1'-0"



6



PTN : 63321-

FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL

MODERNIZATION

2324 VERDE STREET

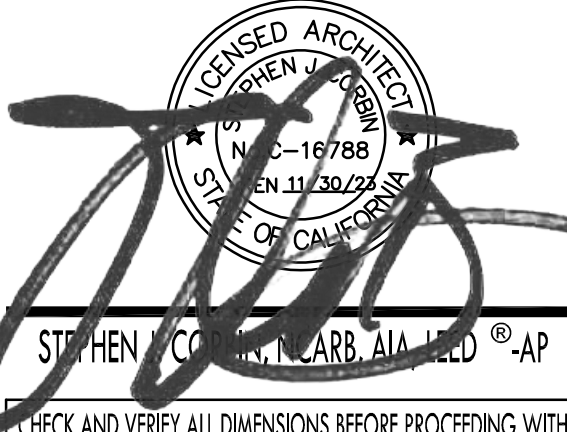
FOR

BAKERSFIELD CITY SCHOOL DISTRICT

BAKERSFIELD, KERN COUNTY, CALIFORNIA



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DETAILS

MARK	DATE	REVISIONS
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JOB NO.

J21323

DRAWN :

JAMA

CHECKED :

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DATE :

03/17/23

S

5.0

OF

SHEETS



MARTIN & ASSOCIATES
JOHN A. MARTIN
& ASSOCIATES
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Los Angeles, Calif. 90015
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Fax (213) 483-3084
J21323

TITLE 24 MECHANICAL & PLUMBING REQUIREMENTS (CODE REFERENCES ARE TO 2019 BUILDING ENERGY EFFICIENCY STANDARDS):

- All air cooled HVAC units shall have minimum efficiencies per Table 110.2-A.
- All furnaces shall have minimum efficiencies per Table 110.2-1.
- All furnaces shall have stand by loss controls per section 110.2 (d).
- All thermostats shall comply with 110 (b) or (c), as applicable.
- All HVAC systems shall have outside (ventilation) air per 120.1 (b) 2. Also see mechanical plans for minimum outside air settings. Refer to table on plan.
- When CO2 ventilation demand controls are specified, provide in accordance with 120.1 C. 4.
- Minimum ventilation rates shall be initiated one hour prior to scheduled occupancy per 120.1 (c) 2.
- Each HVAC system shall have shut-off and reset controls complying with 120.2 (e).
- All outside and exhaust dampers shall automatically close per 120.2 (f).
- All systems greater than a nominal 54 MBH cooling capacity shall have economizers equipped with fault detection and diagnostics per 120.2 (i).
- All ductwork insulation shall comply with 120.4.
- Set up all thermostats with a dead band of no less than three degrees to prevent cycling between heating and cooling.
- Acceptance tests required prior to granting occupancy. NA refers to Non Residential appendices:
 - Outdoor air ventilation systems per NA 7.5.1.
 - Constant volume single zone system controls per NA 7.5.2.
 - Air economizers per NA 7.5.4.
 - Demand control (CO2) controls, when required, per NA 7.5.5.
 - Fault Detection & diagnostics (FDD) per NA 7.5.11.

Equipment Anchorage Notes:

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.

- All permanent equipment and components.
- 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.
- Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center mass located 4 feet or more above the adjacent floor or roof level that directly support the component are required to be restrained in a manner approved by DSA.

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:

- 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.
- 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 structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note:

Piping, ductwork, and Electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Section 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 pre-approved 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 loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP),
Electrical Distribution Systems (ES):

Option 1: Detailed on the approved drawings with project specific notes and details

Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#)
OPM 0052-13 B-LINE/TOLCO SYSTEM

Air Conditioning Legend

SYMBOL	ABBR	ITEM	SYMBOL	ABBR	ITEM
	A.C.	Air Conditioning		H.W.R.	Heating Water Return
	A.D.	Access Door		H.W.S.	Heating Water Supply
	A.F.F.	Above Finished Floor		INT.	Internal
	A.H.	Air Handler		LOC.	Location
	B.A.S.	Building Automation System		M.O.	Motor Operated
	B.V.	Butterfly Valve		N.	New
	C.D.	Condensate Drain		N.C.	Normally Closed
	C.E.	Ceiling Exhaust Register		N.I.C.	Not in Contact
	C.W.R.	Condenser Water Return		N.O.	Normally Open
	C.H.W.R.	Chilled/Hot Water Return		O.S.A.	Outside Air
	C.H.W.S.	Chilled/Hot Water Supply		O.B.D.	Opposed Blade Damper
	C.O.M.B.	Combination Connection		P.O.C.	Point of Connection
	C.O.N.T.	Control		P.R.V.	Pressure Relief Valve
	C.R.	Ceiling Return Register		S.M.	Similar
	C.S.	Ceiling Supply Register		S.F.D.	Smoke / Fire Damper w/ access panel
	C.V.	Check Valve		S.M.	Sheet Metal
	D.C.W.	Domestic Cold Water		S.P.S.T.	Single Pole Single Throw
	D.	Door		S.O.V.	Smart On Valve
	D.P.D.T.	Double Pole Double Throw		T.R.	Thermostat or Room Sensor
	E.	Existing		TYP.	Typical
	E.F.	Exhaust Fan		U.D.	Underdrain
	E.M.S.	Energy Management System		U.N.O.	Unless Noted Otherwise
	F.A.	Fire Alarm w/ acc. panel		V.D.	Volume Damper
	F.C.	Flexible Connection		V.R.	Vol. Damper w/ Remote Operator
	F.T.R.	Flue Thru Roof		W.R.	Wall Return Register
	F.	Furnace		W.S.	Wall Supply Register
	G.	Gauge		Q.W.A.L.	Quot w/ Automatic Lining
	G.G.	Gasketed Gaskets per Minute		T.V.	Turning Vane
	G.G.	Gasketed Gaskets per Minute		C.O2 SENS.	CO2 Sensor
	G.G.	Gasketed Gaskets per Minute		U.	Union
	G.G.	Gasketed Gaskets per Minute		R.	Reducer or Inexpander

EQUIPMENT SCHEDULE

HP-1
Carrier 50CCQM06 Rooftop Heat Pump, 1,800 CFM @ 0.60 E.S.P., 0.66 BHP direct drive supply fan drive vane-axial fan with electrically commutated motor, 1,200 CFM low speed (staged air volume), 61,300 BTU/H total / 46,320 sensible gross cooling / 54,860 heating capacity / 16.2 SEER / 11.7 EER / 8.3 HSPF at ARI conditions. Two stage cooling, 5 year compressor warranty, high and low pressure switches, adjustable defrost timer, and anti-short cycle timer. (4) 16" x 16" x 2" MERV 8 return air filters, 10.6 kW electric strip heater factory mounted and wired, single point power connection for heat pump and strip heater. Integrated modulating economizer with dry bulb control, fault diagnostics and detection per T24 regulations, power exhaust fan module, demand control ventilation package with wall mounted CO2 sensor set to 1000 ppm. Adjust outside airflow to modulate between hi-low settings per O.A. schedule on plans. Include information on both settings in air balance report. Provide separate power feed and disconnect for economizer power exhaust fan. Sloped roof curb with seismic hold down clips, internal high and low compressor protection.

Electrical: 34 MCA / 40 MOCP @ 460v-3ph. (HP Unit) Operating Weight: 816 Lbs.
1.9 MCA / 3.4 MOCP @ 460v-3ph. (Power Exhaust) Curb: 107 lbs.

HP-2
Carrier 50V2-C24 Rooftop Heat Pump, 700 CFM @ 0.40 E.S.P., 0.38 BHP direct drive supply fan motor, 22,620 BTU/H total / 16,730 sensible net cooling / 22,380 heating capacity / 14.5 SEER / 8.2 HSPF at ARI conditions. Single stage cooling, 5 year compressor warranty, high and low pressure switches, adjustable defrost timer, and anti-short cycle timer. 2" Deep MERV 13 return air filters in factory filter rack, 5.4 kW electric strip heater, factory mounted and wired, single point power connection for heat pump and strip heater. Motorized two-position outside air damper. Sloped roof curb with seismic hold down clips internal high and low compressor protection.

Electrical: 53.7 MCA / 60 MOCP @ 208v-1ph. (HP Unit) Operating Weight: Unit 326 Lbs.
Curb 65 Lbs.

HP-3
Carrier 50FCQM07 Rooftop Heat Pump, 2,100 CFM @ 0.60 E.S.P., 0.83 direct drive supply fan drive vane-axial fan with electrically commutated motor, 1,400 CFM low speed (staged air volume), 73,450 BTU/H total / 55,300 sensible gross cooling / 63,550 heating capacity / 11.2 EER / 15.0 IEER / 3.6 COP at ARI conditions. Two stage cooling, 5 year compressor warranty, high and low pressure switches, adjustable defrost timer, and anti-short cycle timer. (4) 16" x 16" x 2" MERV 8 return air filters, 10.6 kW electric strip heater factory mounted and wired, single point power connection for heat pump and strip heater. Integrated modulating economizer with dry bulb control, fault diagnostics and detection per T24 regulations, power exhaust fan module, demand control ventilation package with wall mounted CO2 sensor set to 1000 ppm. Adjust outside airflow to modulate between hi-low settings per O.A. schedule on plans. Include information on both settings in air balance report. Provide separate power feed and disconnect for economizer power exhaust fan. Sloped roof curb with seismic hold down clips, internal high and low compressor protection.

Electrical: 31 MCA / 35 MOCP @ 460v-3ph. (HP Unit) Operating Weight: 809 Lbs.
3.5 MCA / 6.3 MOCP @ 460v-3ph. (Power Exhaust) Curb: 107 lbs.

EF-1
Greenheck SPA-50-90-VG Ceiling Mounted Exhaust Fan, 90 CFM @ 0.20" E.S.P., 887 RPM, 6 watts ECM motor, 0.7 sones. Provide with backdraft damper, full size discharge to roof cap, and NEMA-1 toggle switch. Interlock fan operation with light circuit. Dial on fan speed control with time delay set to fifteen minutes.

Electrical: 6 Watts @ 115v-1ph. Operating Weight: 12 Lbs.

Codes:

California Code of Regulations (C.C.R.)

- Part 1 - 2022 California Standards Administrative Code, Title 24, C.C.R.
- Part 2 - 2019 California Building Code (C.B.C.), Title 24, C.C.R. Volumes 1-3.
- Part 3 - 2019 California Electrical Code, Title 24, C.C.R.
- Part 4 - 2019 California Mechanical Code (C.M.C.), Title 24, C.C.R.
- Part 5 - 2019 California Plumbing Code (C.P.C.), Title 24, C.C.R.
- Part 6 - 2019 California Energy Code, Title 24, C.C.R.
- Part 9 - 2019 California Fire Code, Title 24, C.C.R.
- Part 11 - 2019 California Green Code, Title 24, C.C.R.

Standards and Guides:

- ADAAG - American with Disabilities Act, Accessibility Guidelines.
- Fixtures - Plumbing fixtures to comply with table 5.303.6 of the California Green Building Standards - 2019 Edition.

General Project Note:

- Coordination of work: Layout of materials, equipment and systems is generally diagrammatic unless specifically dimensioned. Some work may be shown offset for clarity. The actual location of all materials, piping, ductwork, fixtures, equipment, supports, etc. shall be carefully planned, prior to installation of any work to avoid all interferences with each other, or with structural, electrical, architectural or other elements. Verify the proper voltage and phase of all equipment with the electrical plans. All conflicts shall be called to the attention of the architect and the engineer prior to the installation of any work or the ordering of any equipment.
- Cutting, boring, saw cutting or drilling through the new or existing structural elements to be done only when so detailed in the drawings or accepted by the Architect and Structural engineer with the approval of DSA representative.

GRILLE SCHEDULE

CD-1

Titus Model TDC Louvered Face Diffuser with T-Bar mount frame and O.B.D. See diffuser sizing chart for neck sizes.

CD-2

Titus Model TDC Louvered Face Diffuser with flat surface mount frame and O.B.D. See diffuser sizing chart for neck size.

CR-1

Titus Model 50F eggcrate T-Bar mount return grille.

Note: Paint all visible surfaces behind diffusers and grilles flat black.

DIFFUSER SIZING CHART

CFM	TITUS MCD, SQUARE NECK	CFM	TITUS TDC, SQUARE NECK
0 - 200	6" x 6"	0 - 150	6" x 6"
201 - 325	8" x 8"	151 - 215	9" x 9"
326 - 450	10" x 10"	216 - 415	12" x 12"
451 - 600	12" x 12"	416 - 700	15" x 15"
601 - 700	14" x 14"	701 - 950	18" x 18"
701 - 850	16" x 16"	951 - 1250	21" x 21"
851 - 950	18" x 18"	1251 - 1700	24" x 24"
951 - 1150	20" x 20"	1701 - 2500	30" x 30"

The California Energy Code Section 10-103 requires Acceptance Testing on 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 help ensure that newly installed equipment is operating and in compliance with the Energy Code.

Lighting controls acceptance tests must be performed by a certified lighting controls Acceptance Test Technician (ATT).

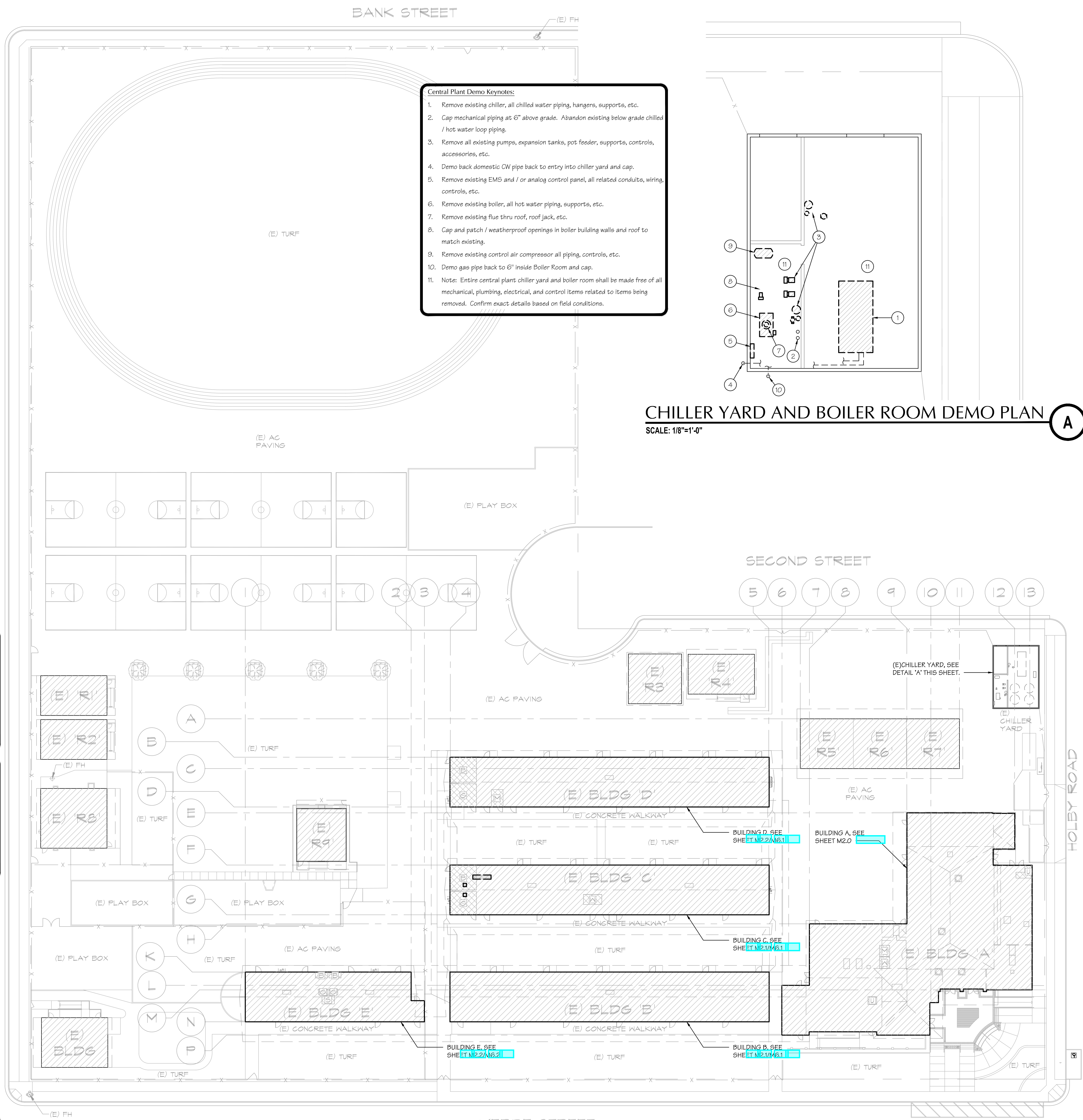
Mechanical system acceptance tests must be performed by a certified mechanical ATT for projects submitted on or after October 1, 2021.

Envelope and process equipment acceptance tests shall be performed by the installing contractor, engineer/architect of record or the owner's agent.

A listing of certified ATT can be found at:
<https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance>.

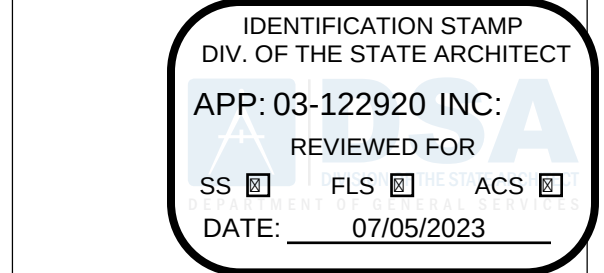
The Acceptance Testing procedures must be repeated, and deficiencies must be corrected by the builder or installing contractor until the construction/installation of the specified systems conform and pass the required acceptance criteria.

Project inspectors will collect the forms to confirm that the required Acceptance Tests have been completed.



CHILLER YARD AND BOILER ROOM DEMO PLAN

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



PTN: 63321-

FILE: 15-6

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MODERNIZATION

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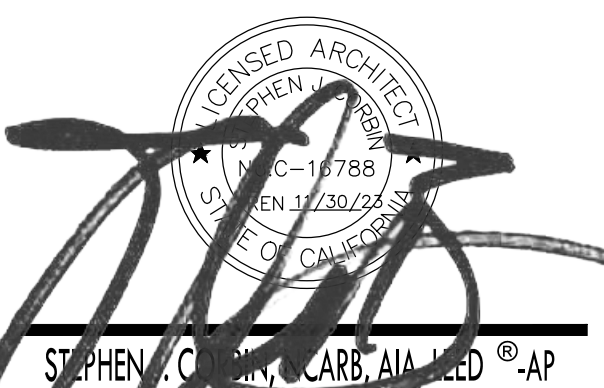
FOR

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BAKERSFIELD, KERN COUNTY, CALIFORNIA



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MECHANICAL SITE PLAN

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.

1317

DRAWN:

B.S.

CHECKED:

M.B.

DATE:

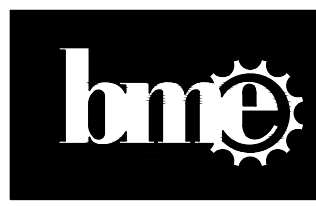
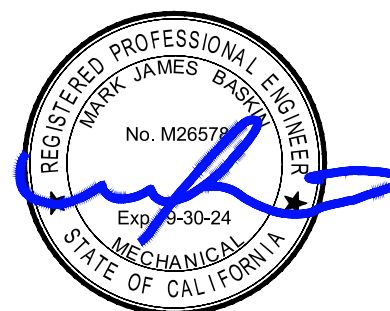
8/5/21

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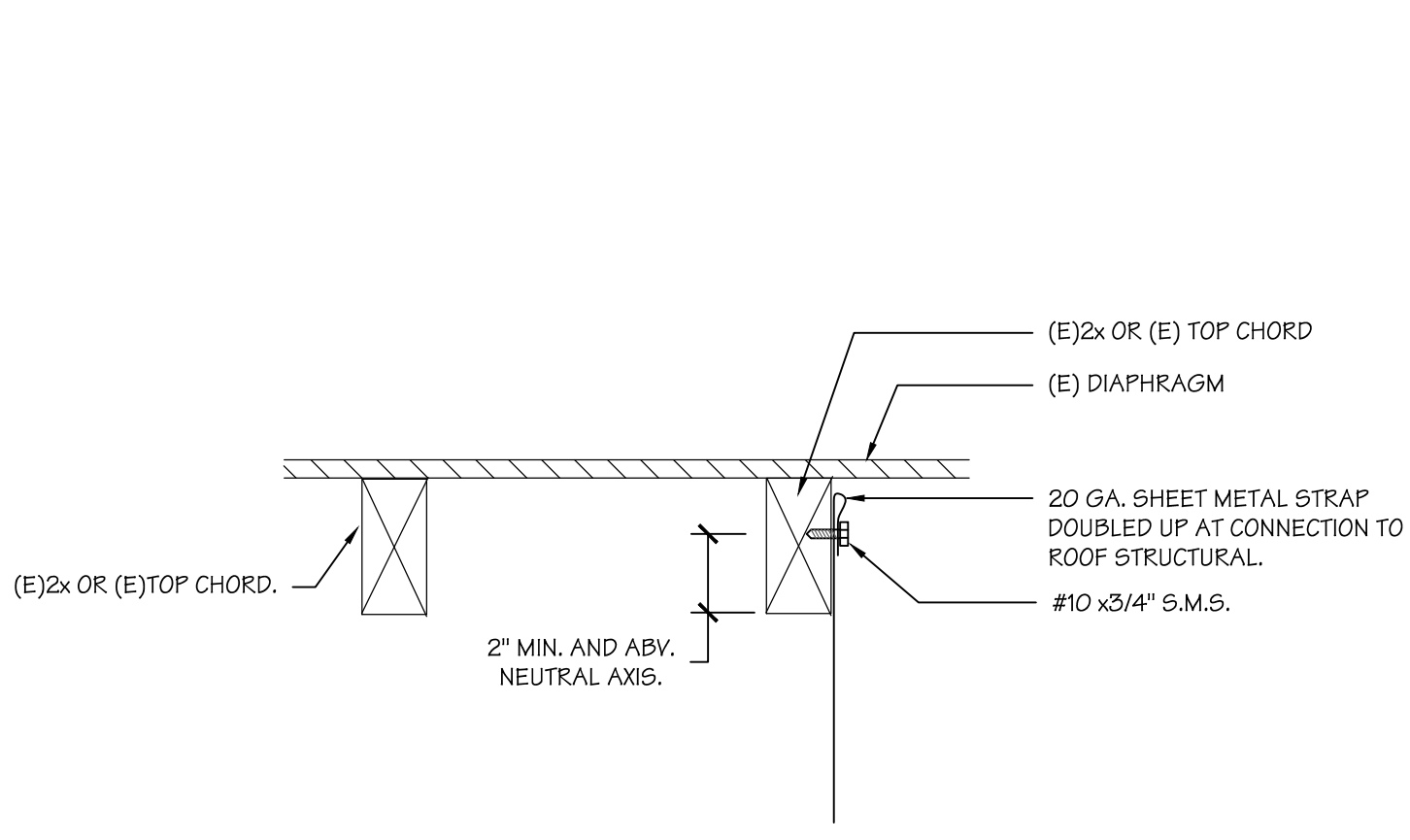
MECHANICAL SITE PLAN

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



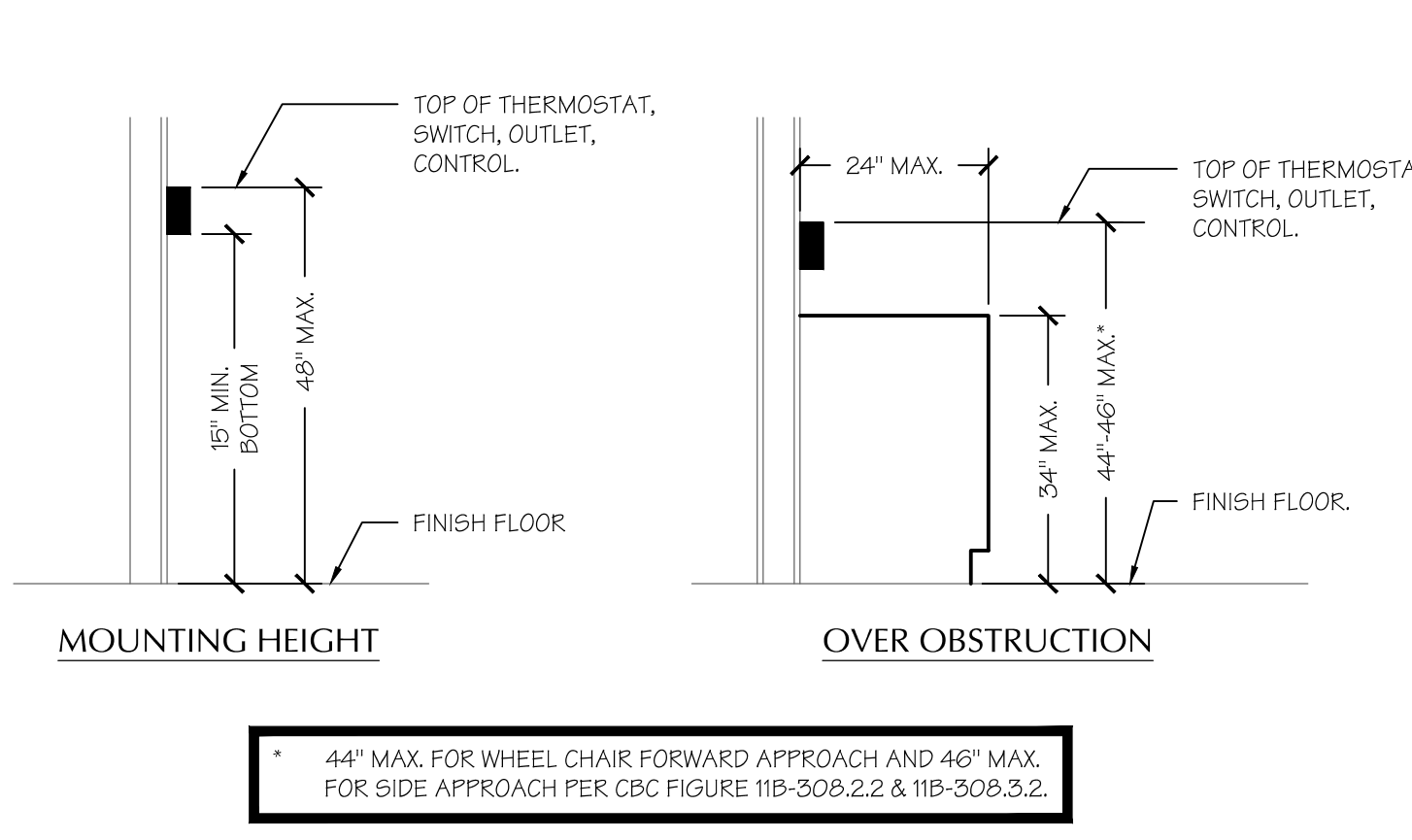
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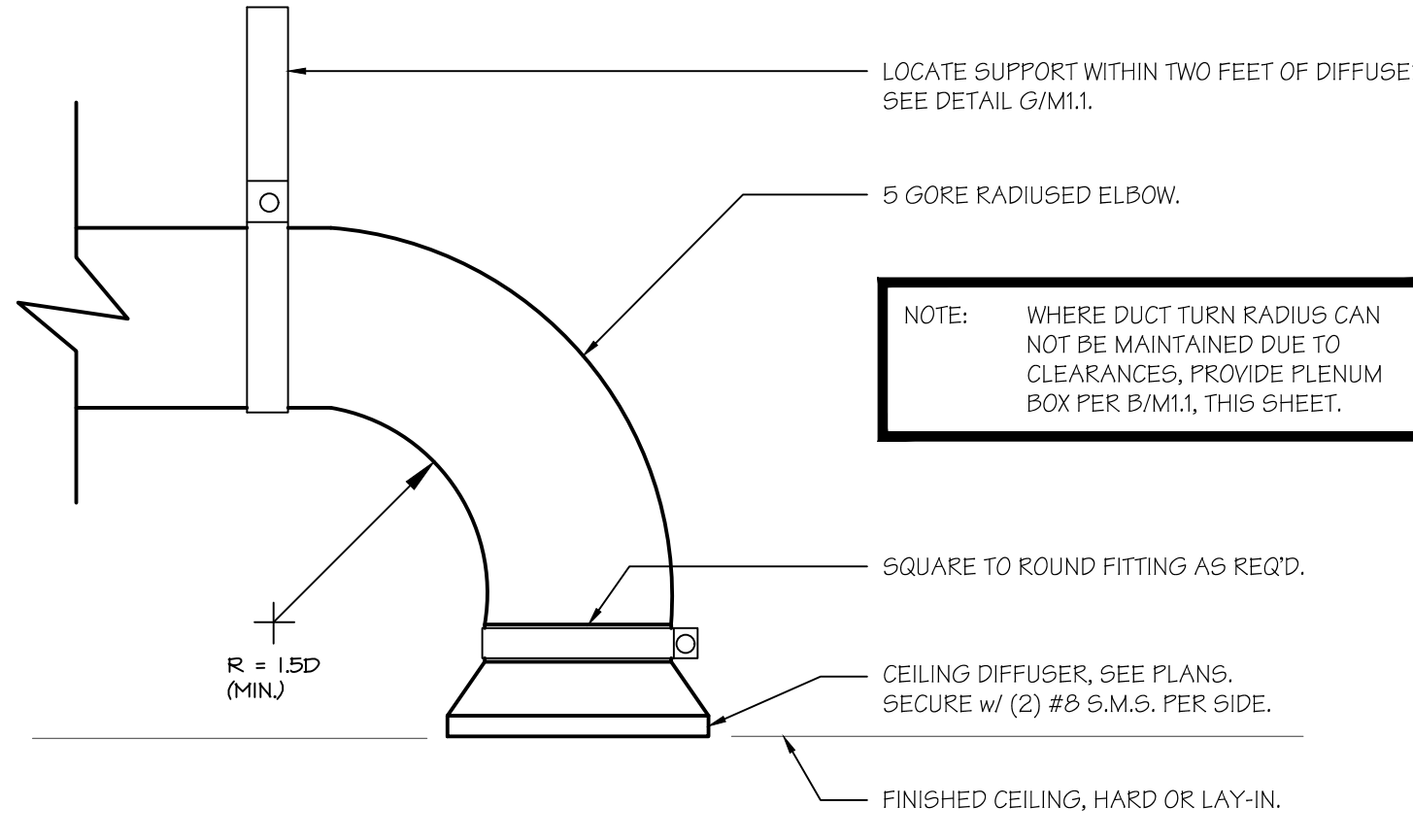
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G



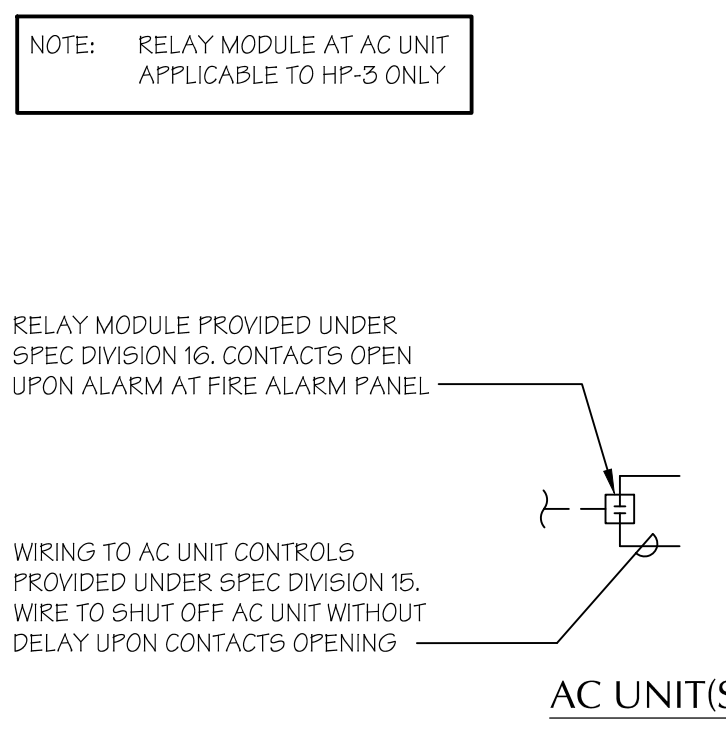
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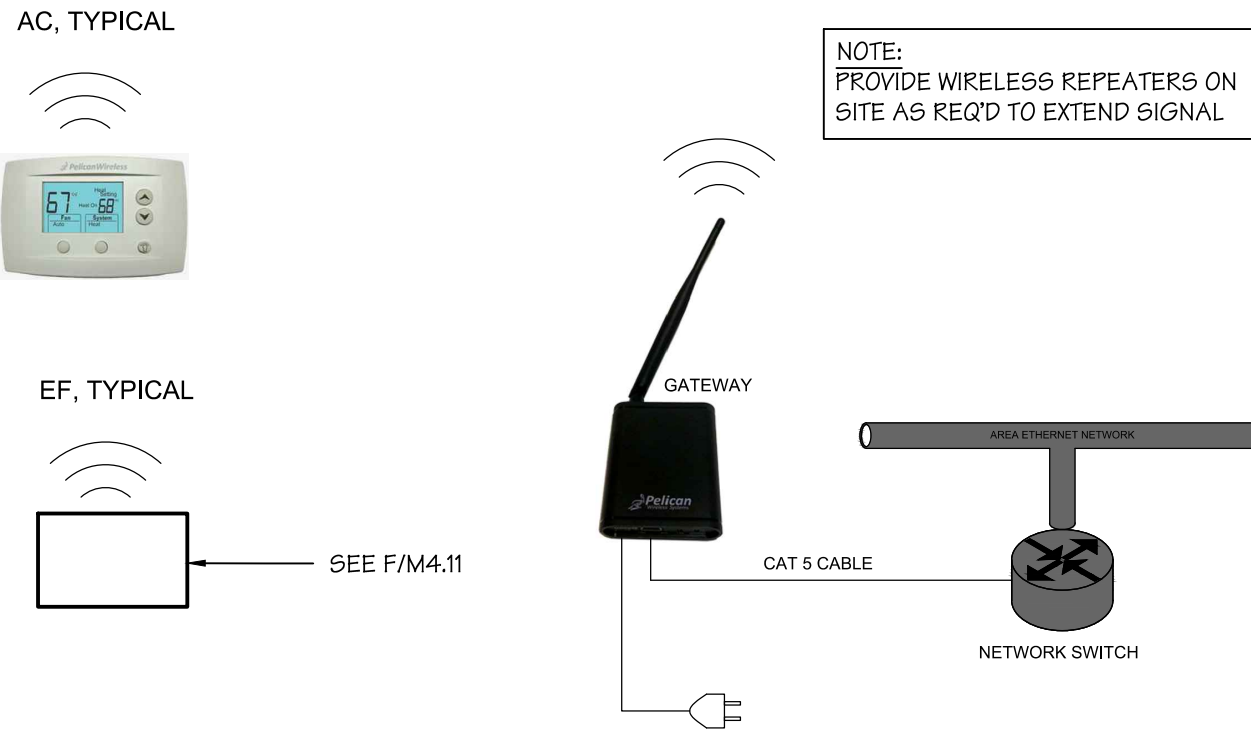
CEILING DIFFUSER/REGISTER CONNECTION
SCALE: N.T.S.

A



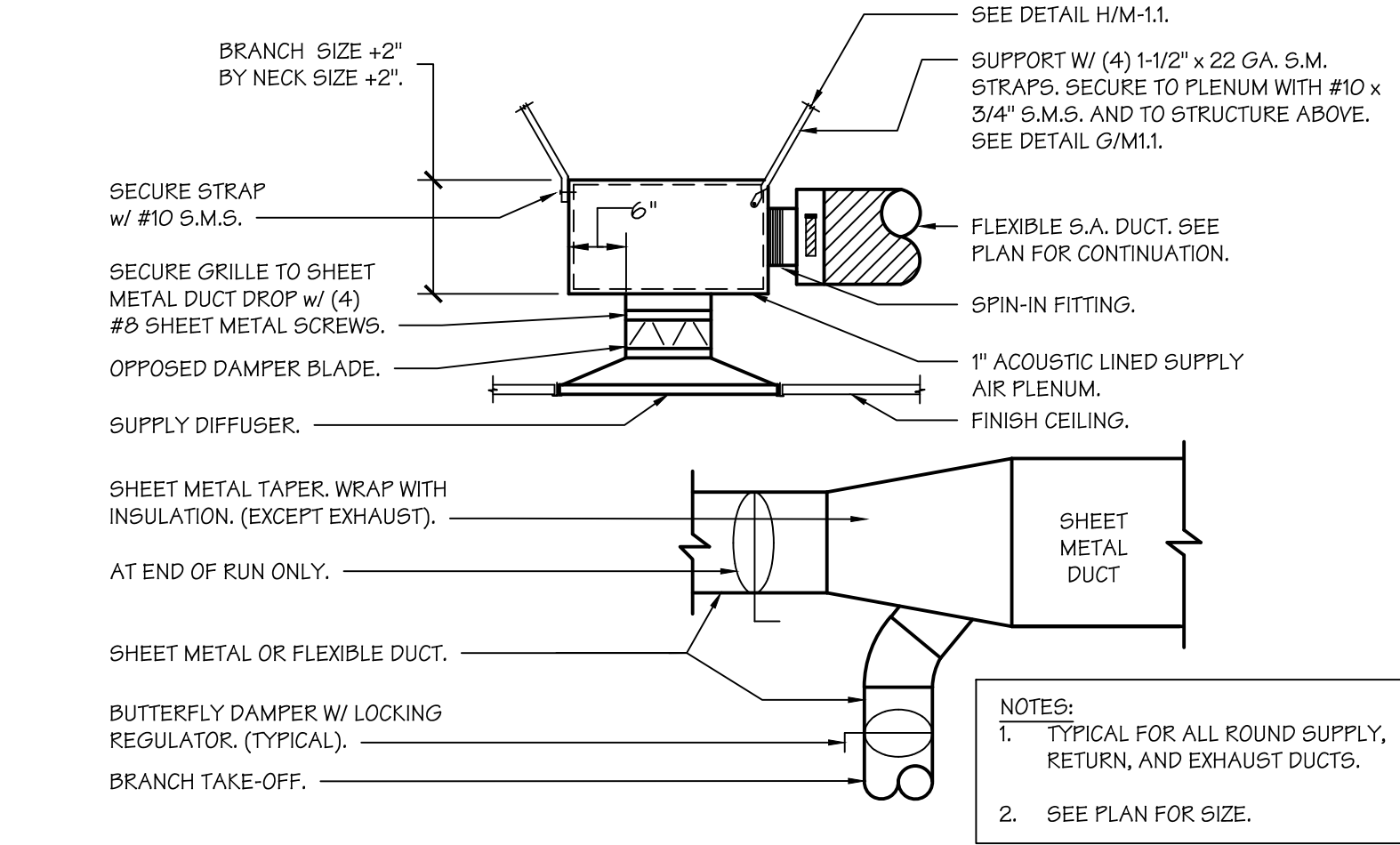
HP UNIT INTERLOCKS WITH
FIRE ALARM PANEL
SCALE: N.T.S.

H



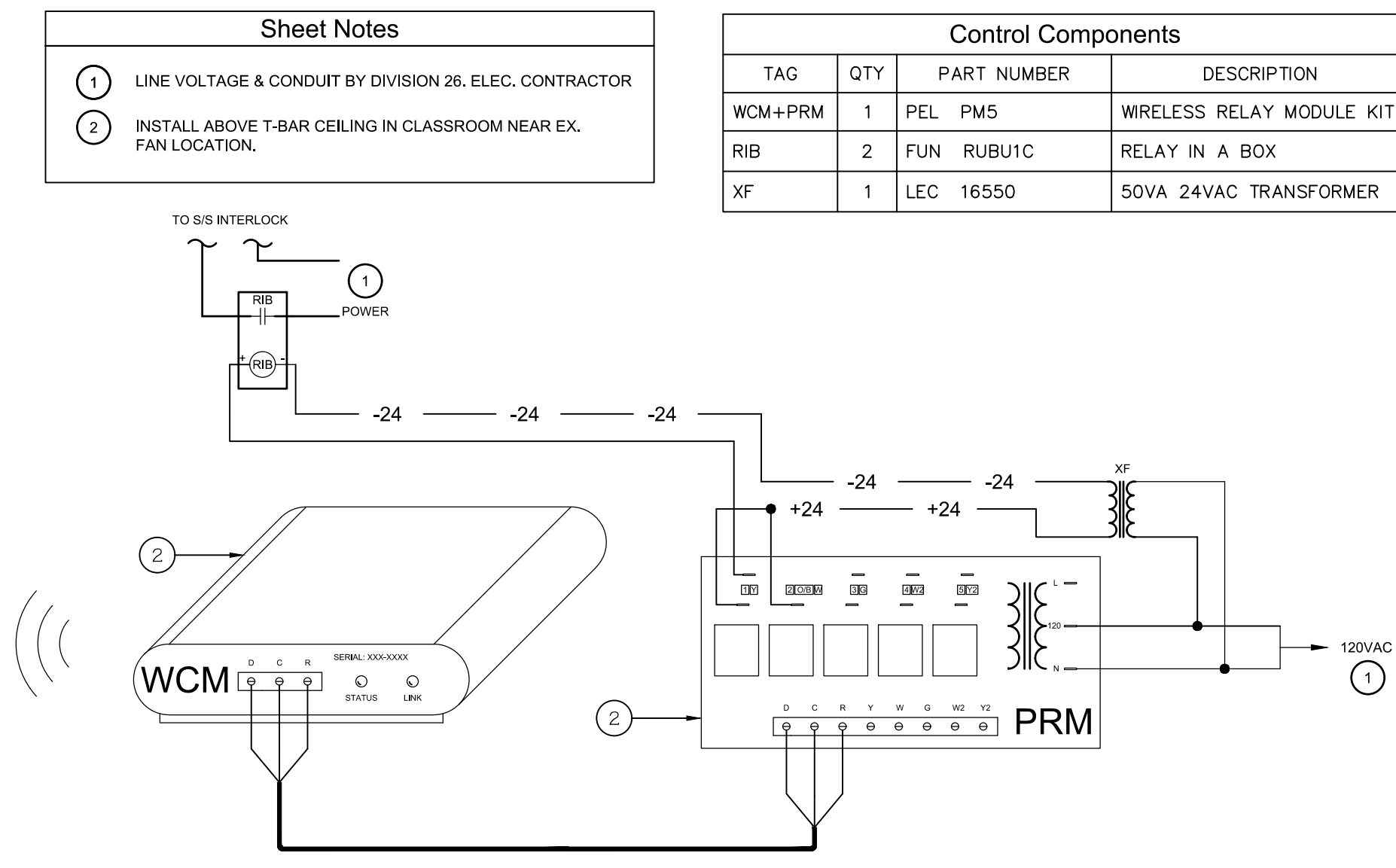
LAN ARCHITECTURE
SCALE: N.T.S.

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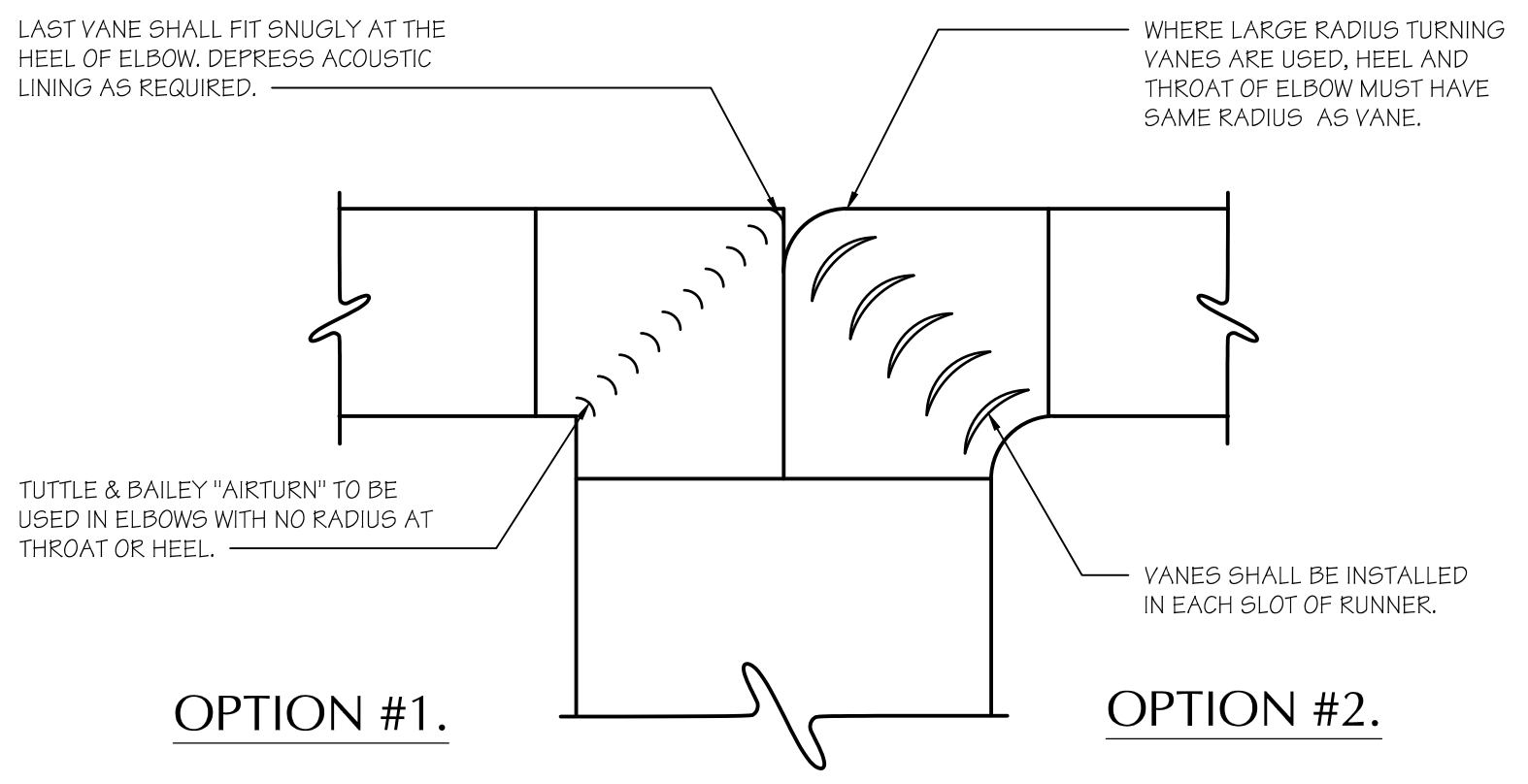
SUPPLY AIR PLENUM & BRANCH TAKE-OFFS
SCALE: N.T.S.

B



EX. FAN CONTROL DETAIL
SCALE: N.T.S.

F



NINETY DEGREE ELBOW
SCALE: N.T.S.

C

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
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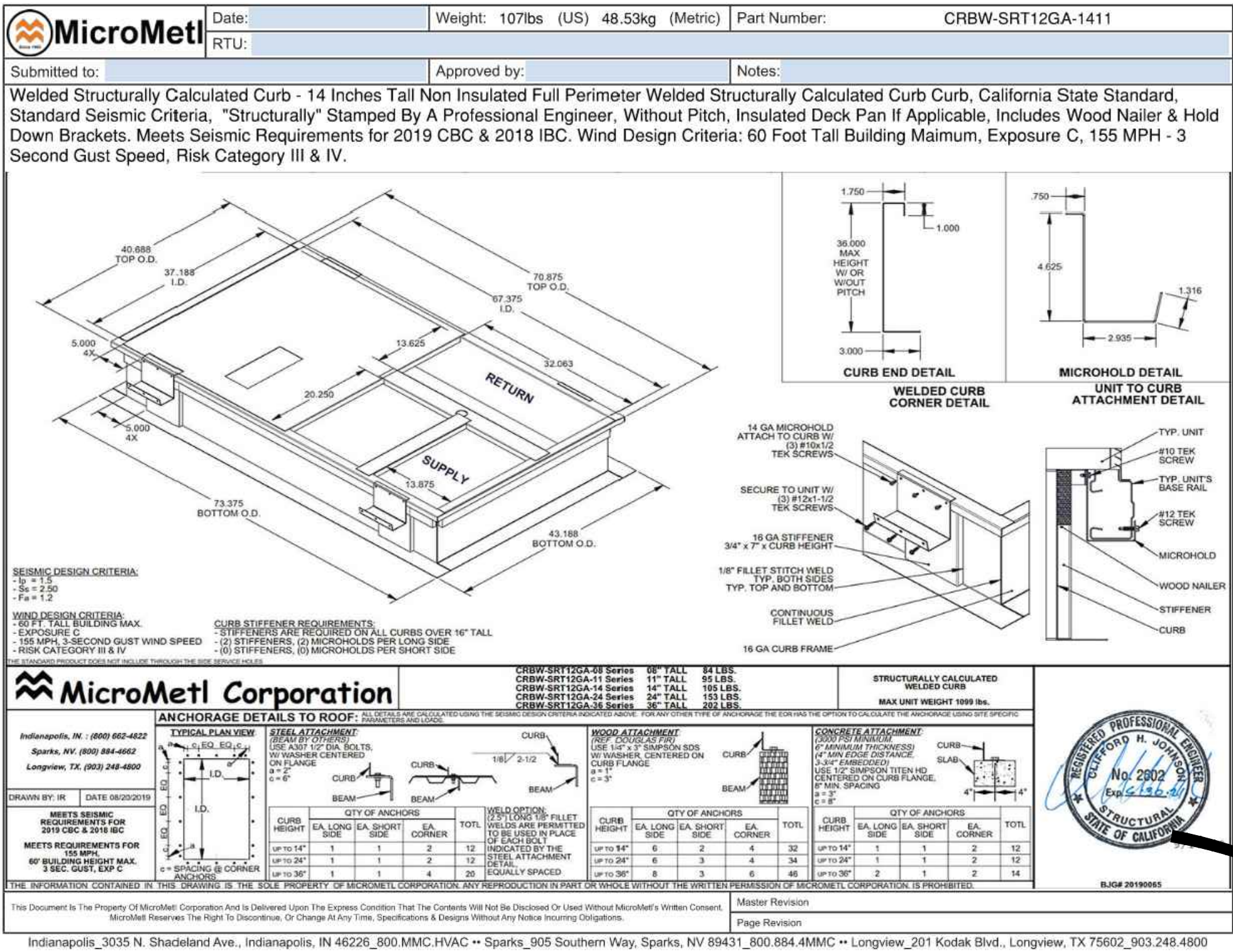
STEPHEN J. CARROLL, AIA, LEED® -AP
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DETAILS

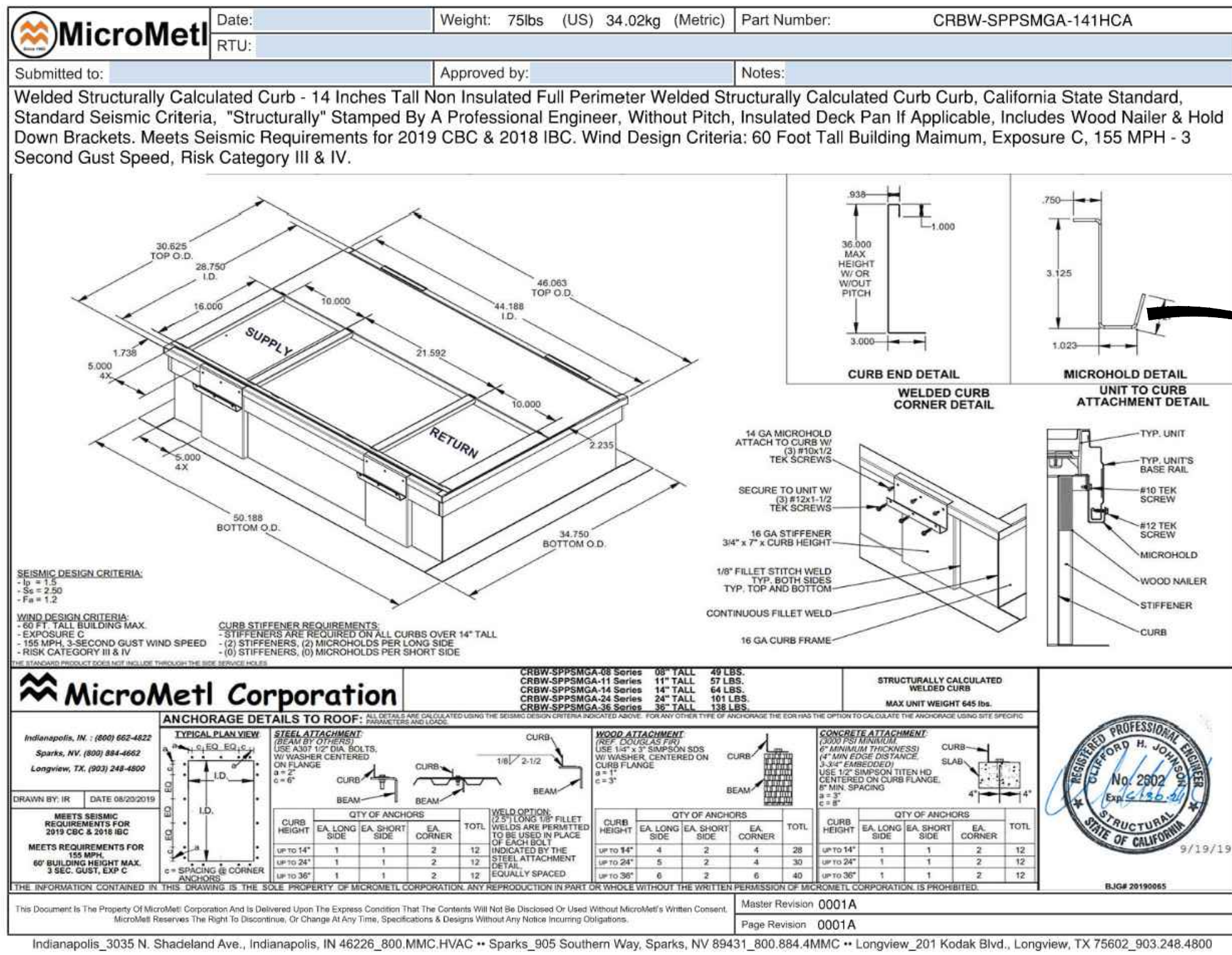
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M
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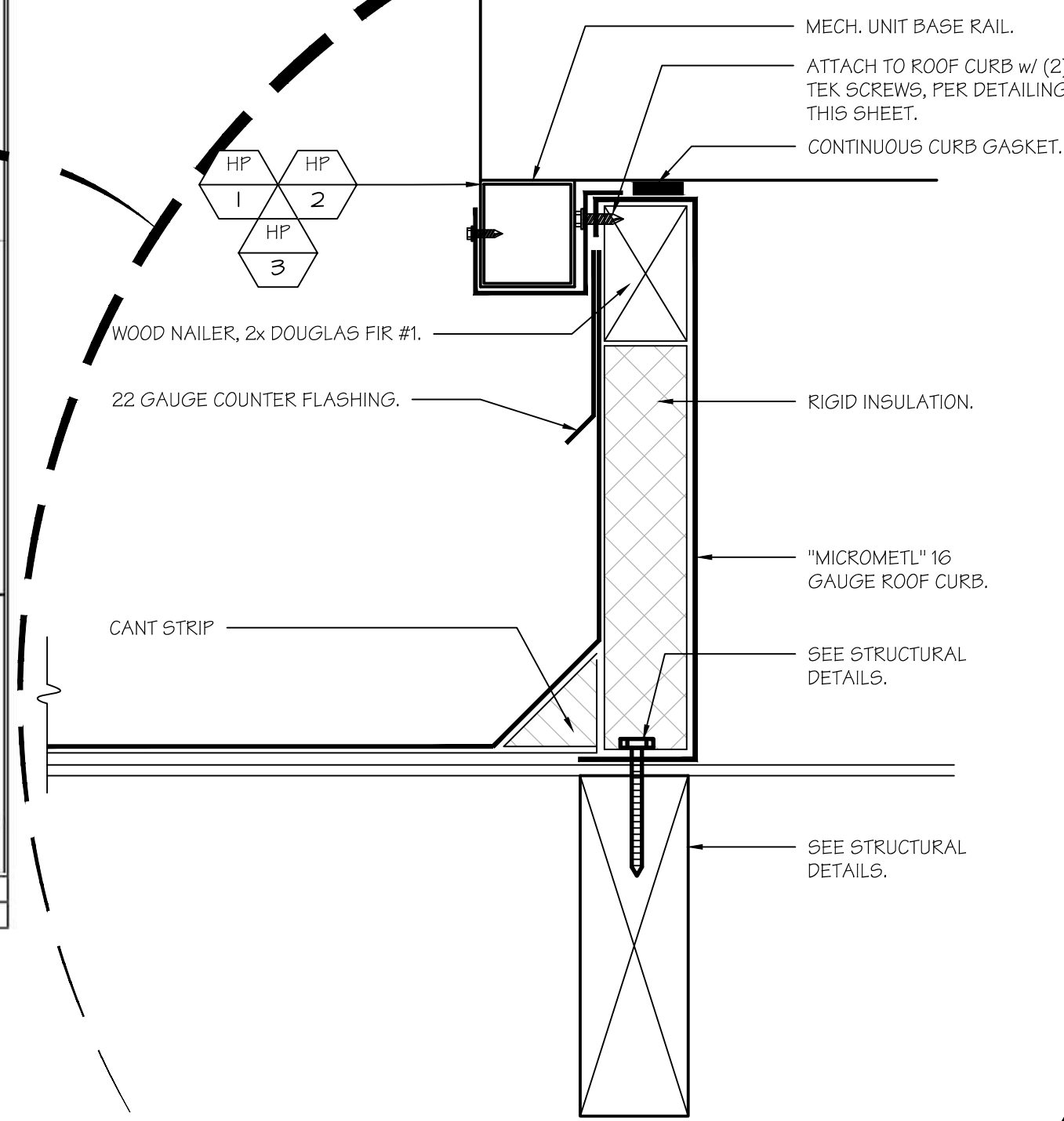
(HP-1,HP-3) UNIT CURB 816 lb. MAX UNIT WT.



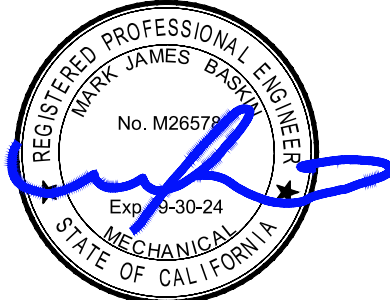
(HP-2) UNIT CURB 326 lb. MAX UNIT WT.

UNIT ANCHORAGE

SCALE: N.T.S.

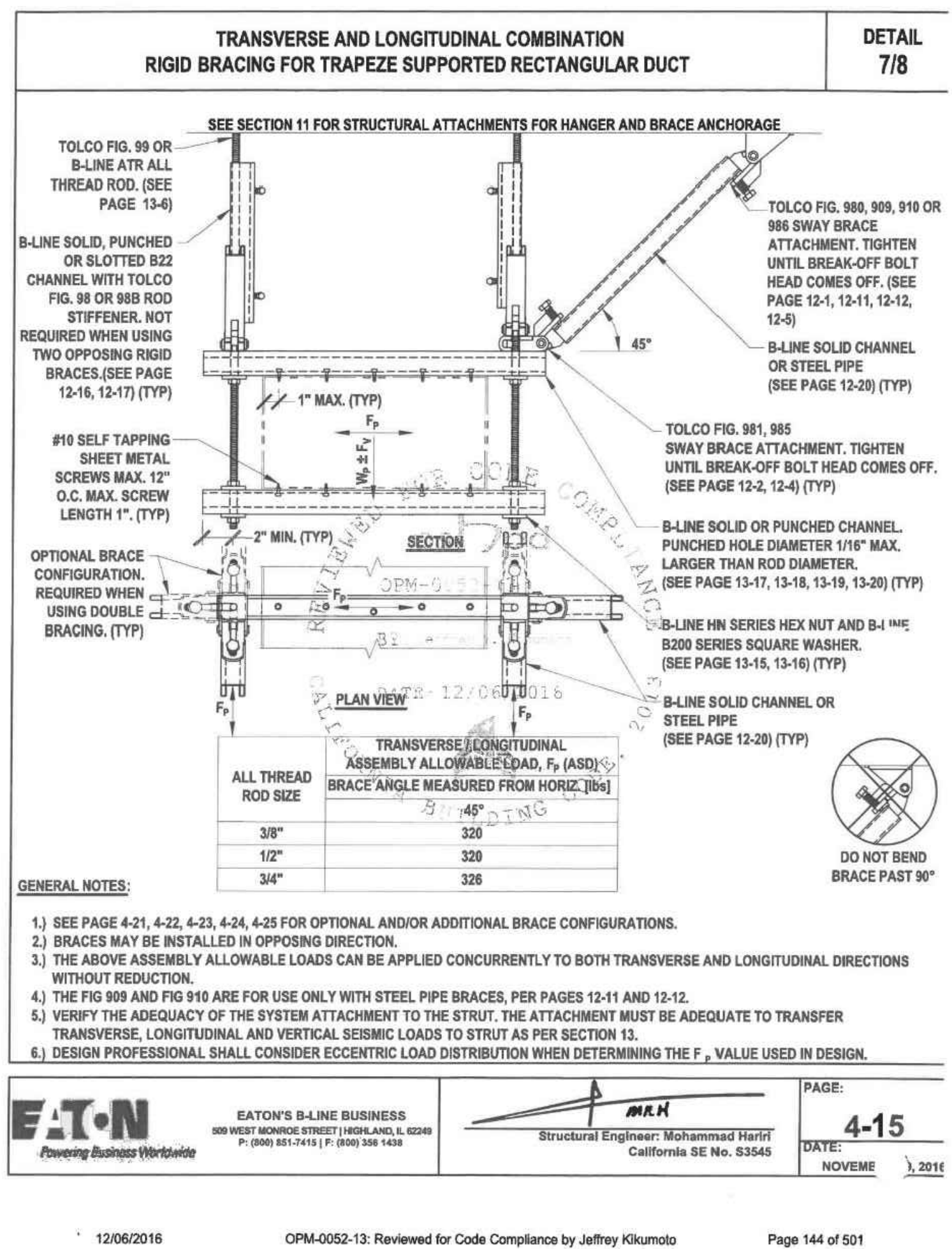


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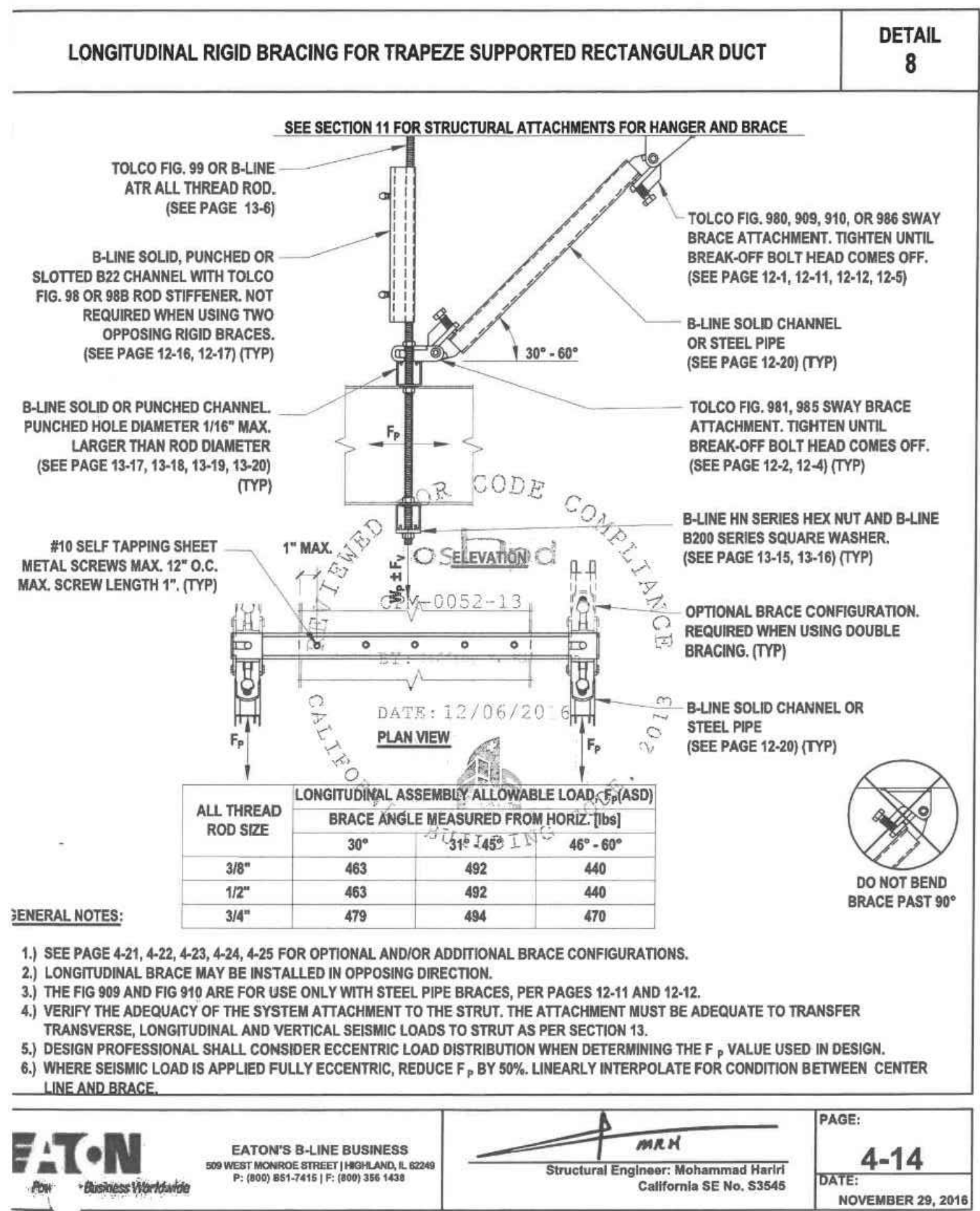


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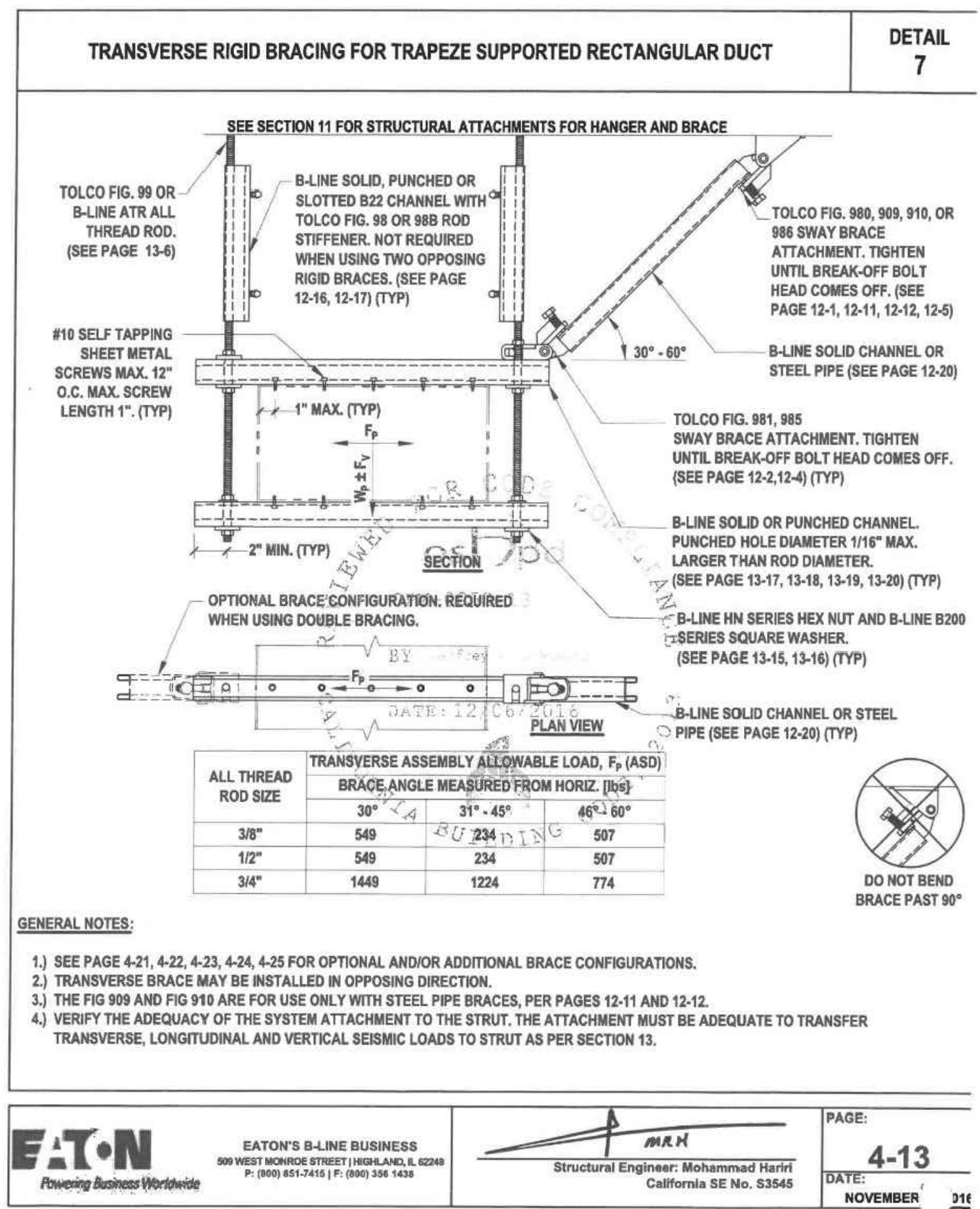
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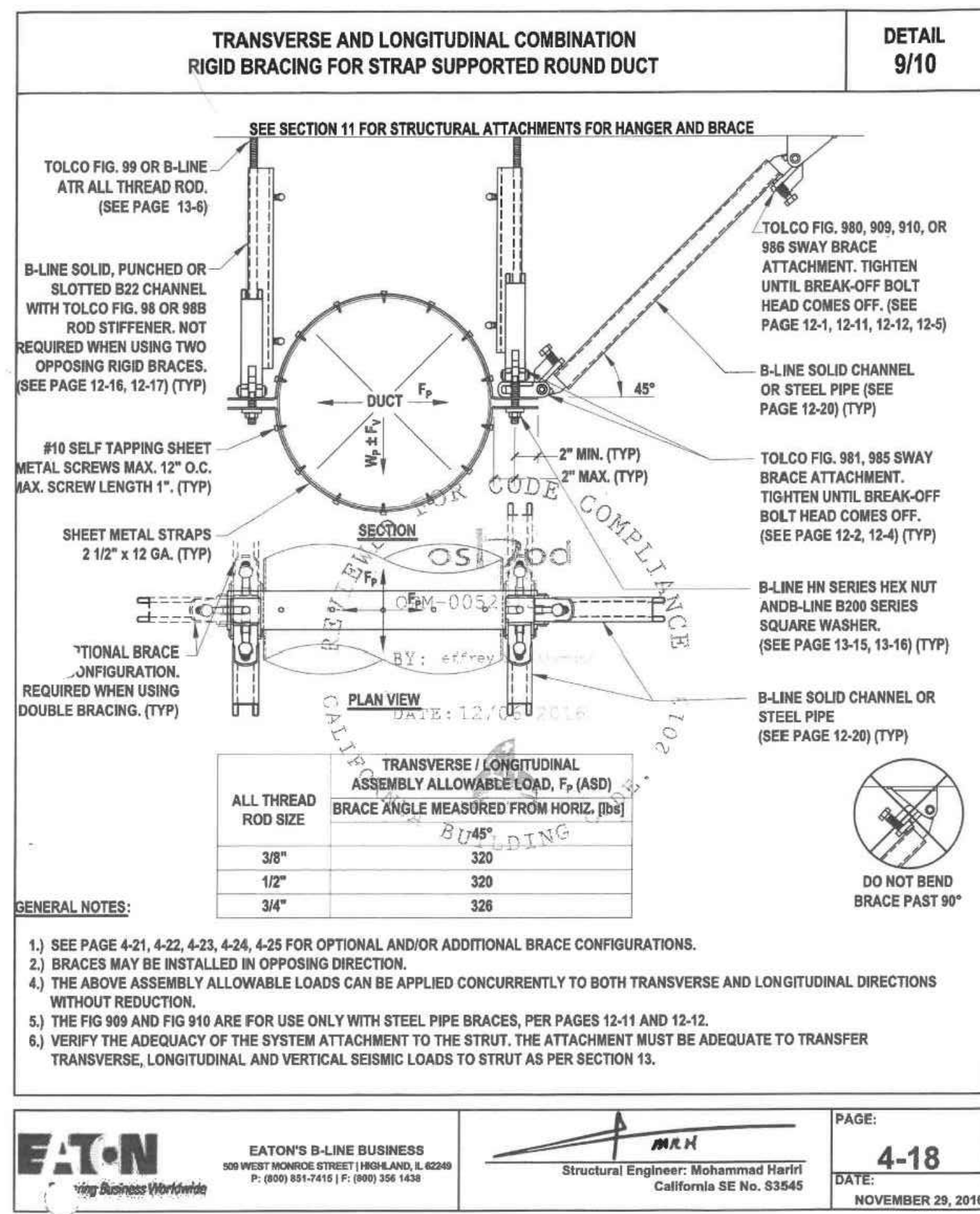
TRANSVERSE & LONGITUDINAL
COMBINATION RIGID BRACING FOR
TRAPEZE SUPPORTED RECTANGULAR DUCT
SCALE: N.T.S.



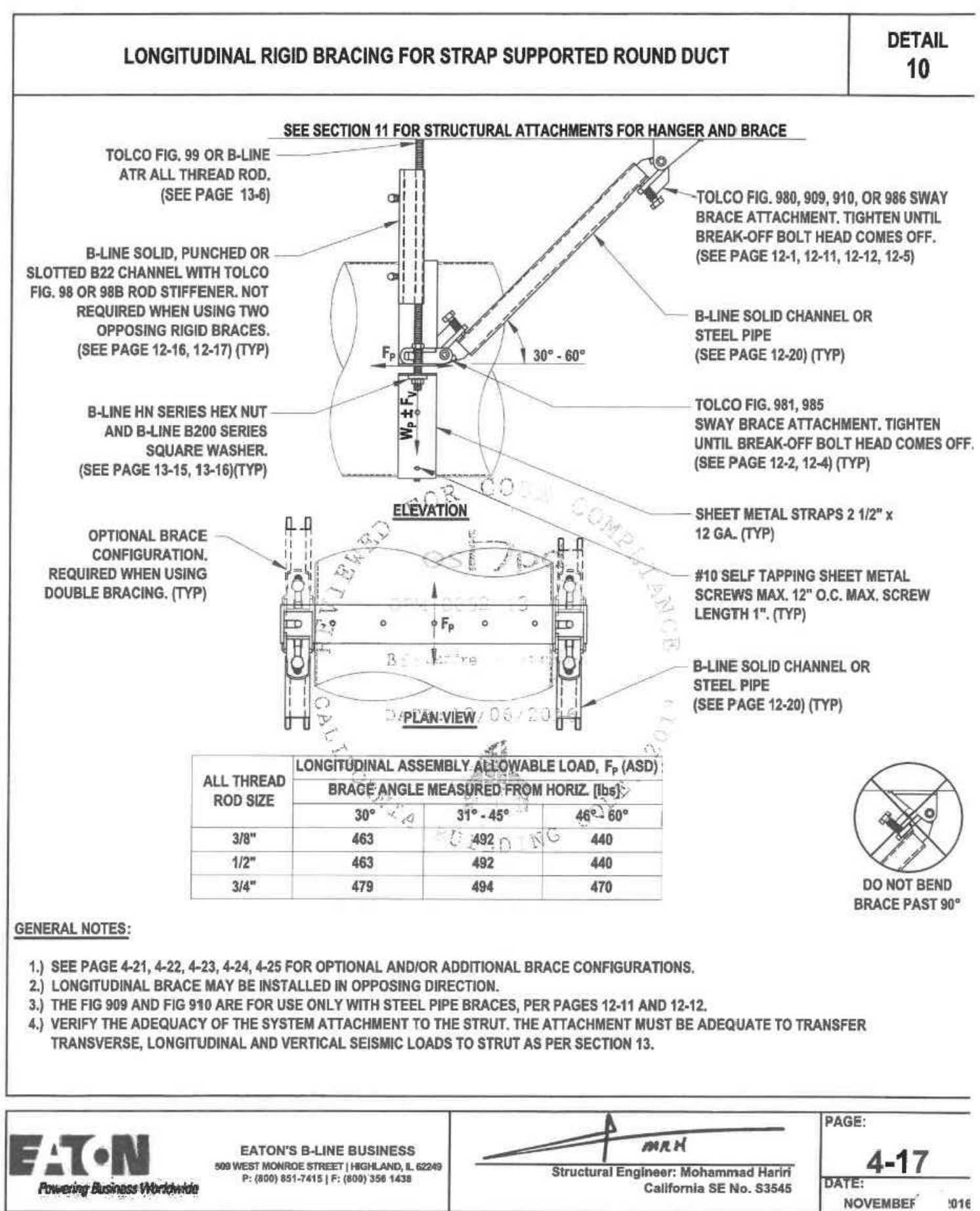
LONGITUDINAL RIGID BRACING FOR
TRAPEZE SUPPORTED RECTANGULAR DUCT
SCALE: N.T.S.



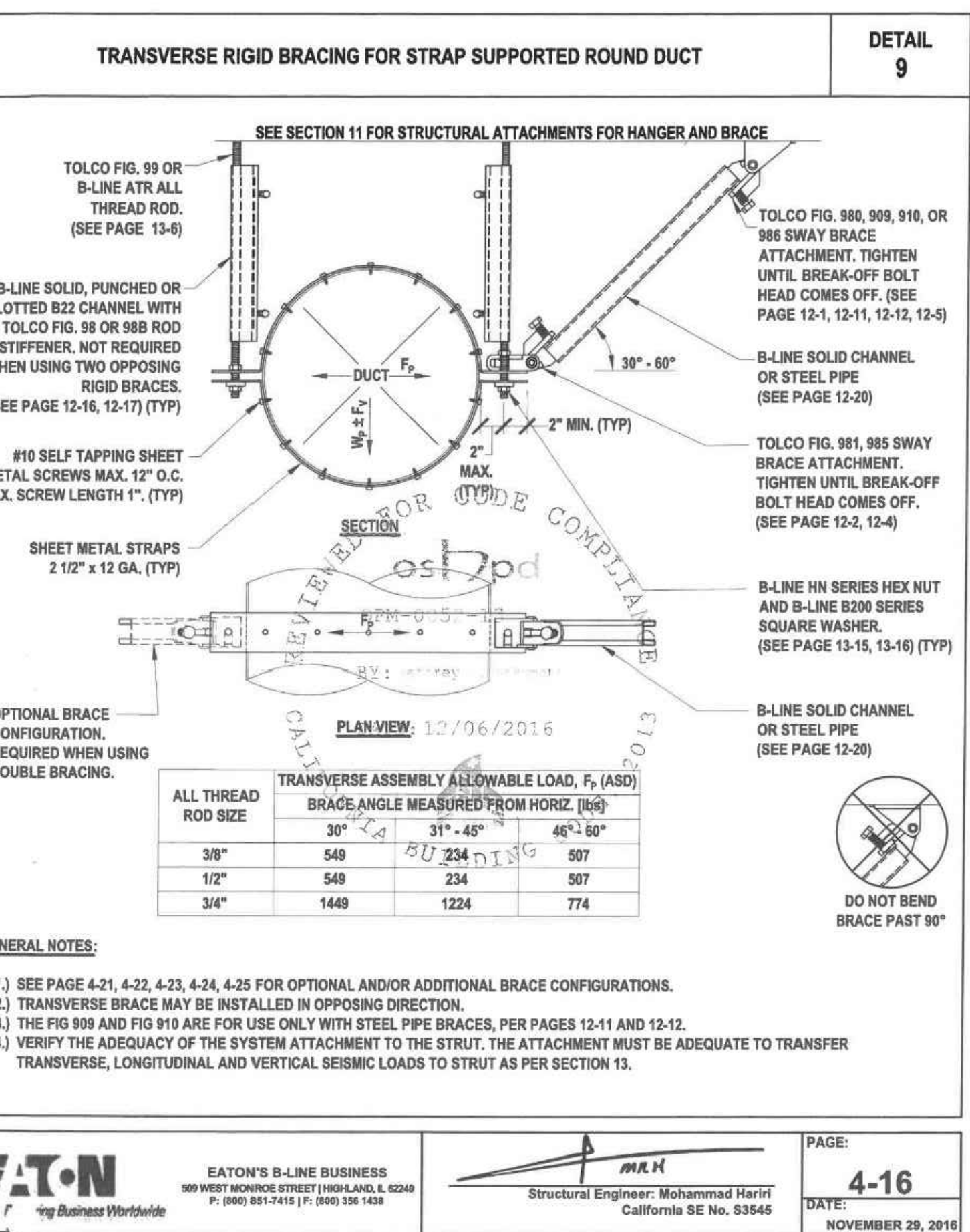
TRANSVERSE RIGID BRACING FOR
TRAPEZE SUPPORTED RECTANGULAR DUCT
SCALE: N.T.S.



TRANSVERSE & LONGITUDINAL
COMBINATION RIGID BRACING FOR
STRAP SUPPORTED ROUND DUCT
SCALE: N.T.S.



LONGITUDINAL RIGID BRACING FOR
STRAP SUPPORTED ROUND DUCT
SCALE: N.T.S.



TRANSVERSE RIGID BRACING FOR
STRAP SUPPORTED ROUND DUCT
SCALE: N.T.S.

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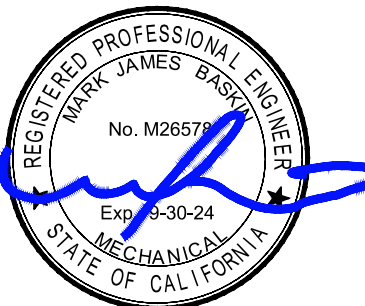
REGISTERED ARCHITECT
STEPHEN JAMES BASKIN
No. M2857
Exp. 8-30-24
BAKERSFIELD
STATE OF CALIFORNIA
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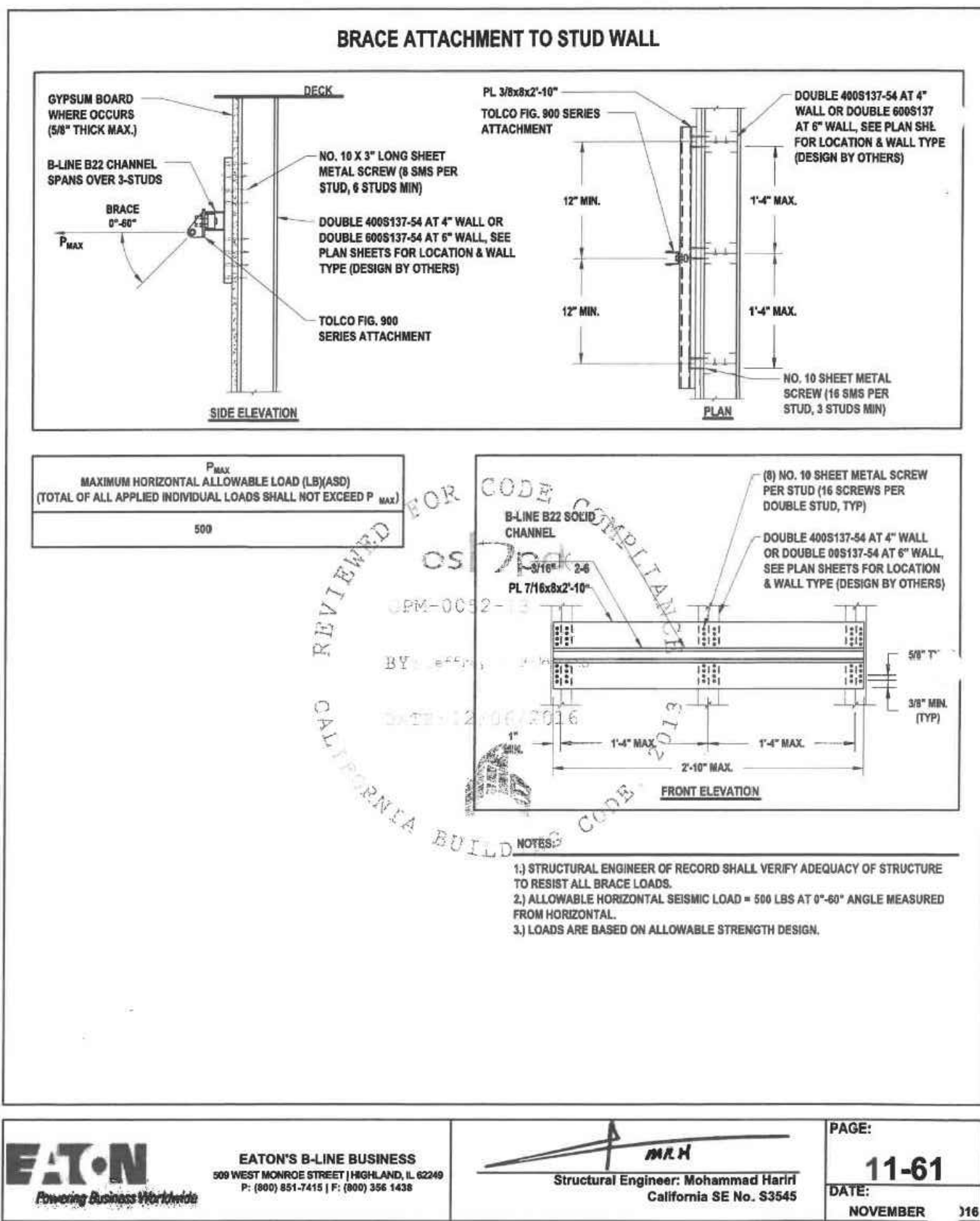
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DATE:
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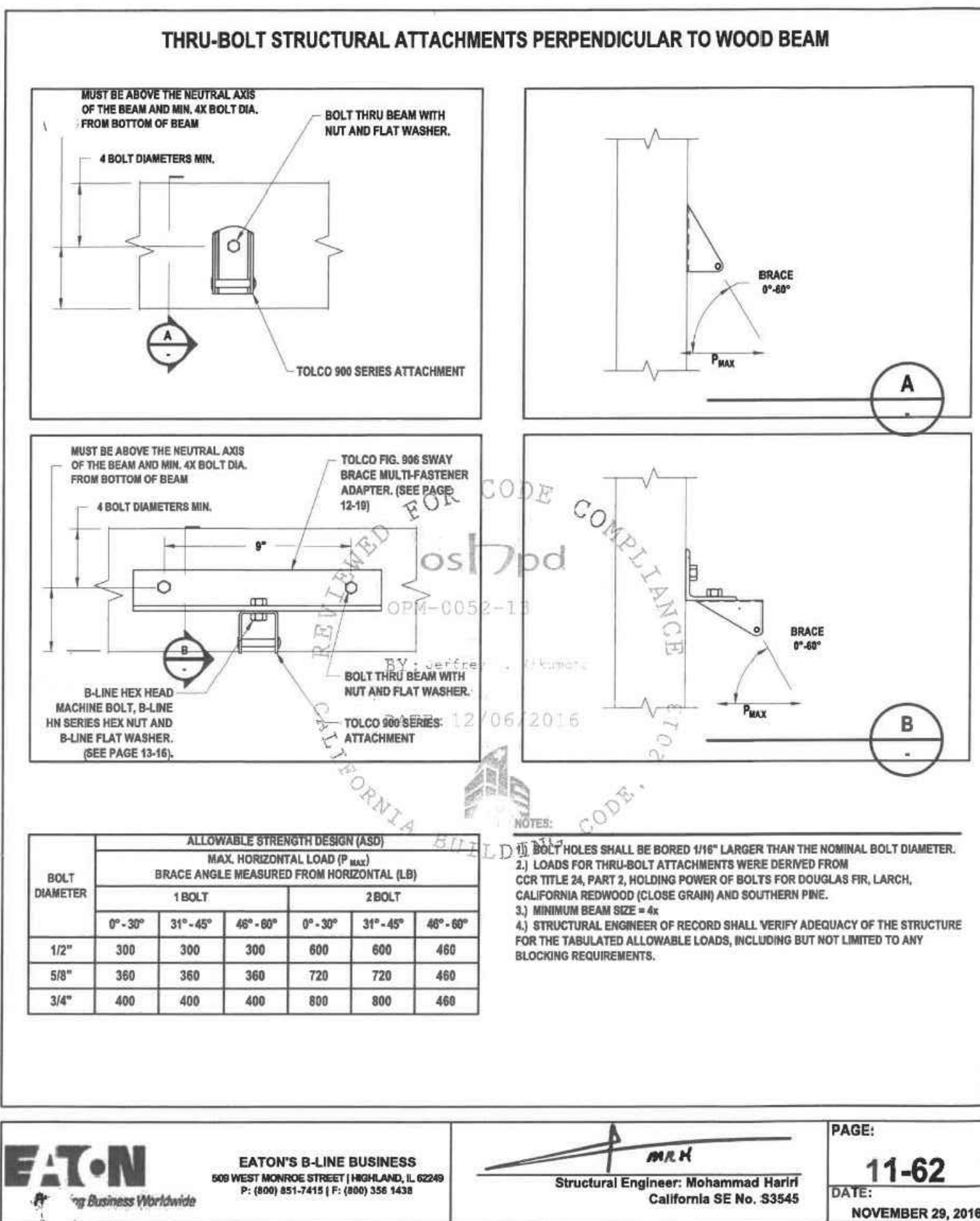
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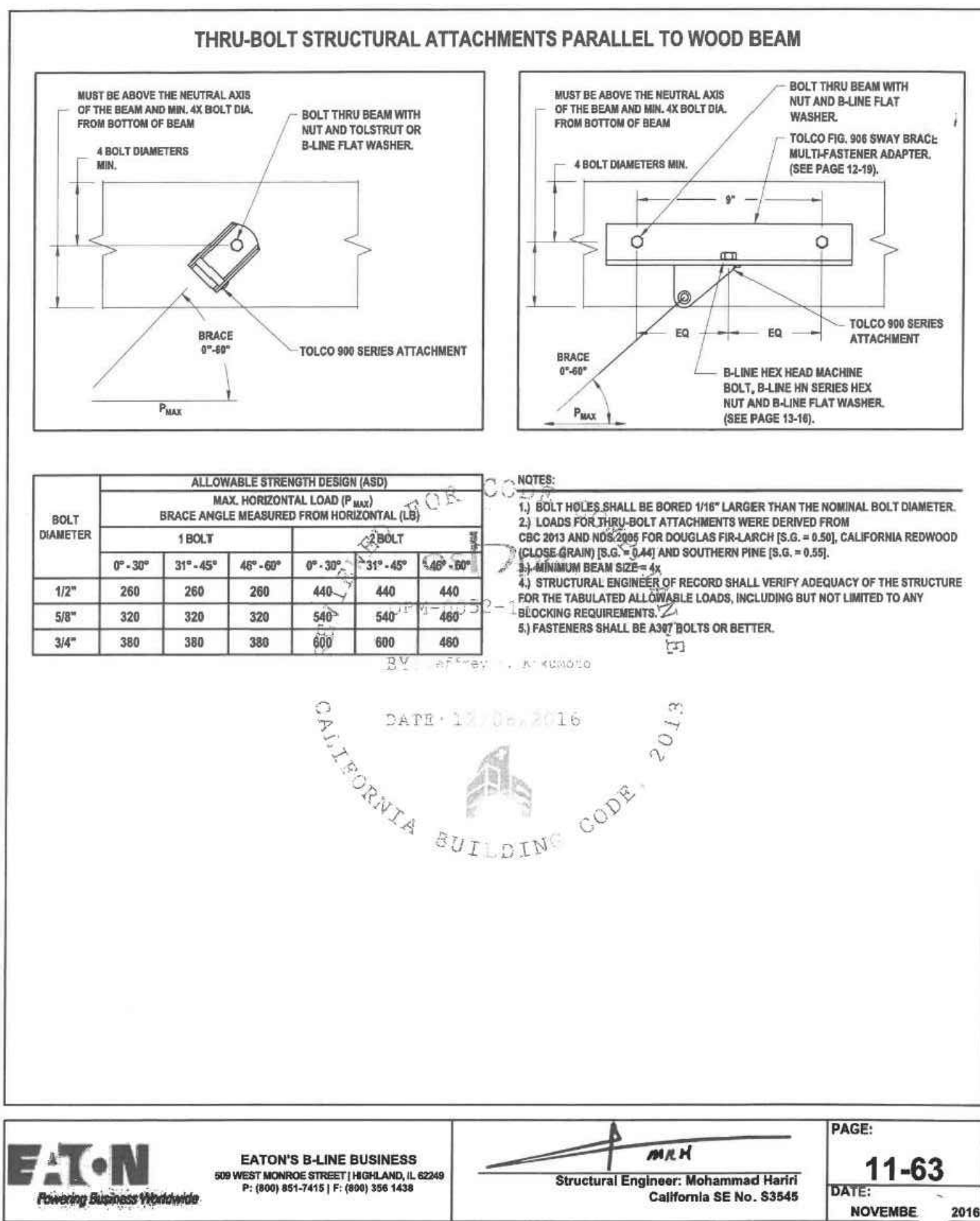
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BRACE ATTACHMENT TO STUD WALL
SCALE: N.T.S.



THRU-BOLT STRUCTURAL ATTACHMENTS
PERPENDICULAR TO WOOD BEAM
SCALE: N.T.S.



THRU-BOLT STRUCTURAL ATTACHMENTS
PARALLEL TO WOOD BEAM
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REGISTERED ARCHITECT
JAMES EARL CARP
No. 123456789
Exp. 12/31/2024
STATE OF CALIFORNIA
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MECHANICAL
PLAN BUILDING 'A'

MARK	DATE	REVISIONS
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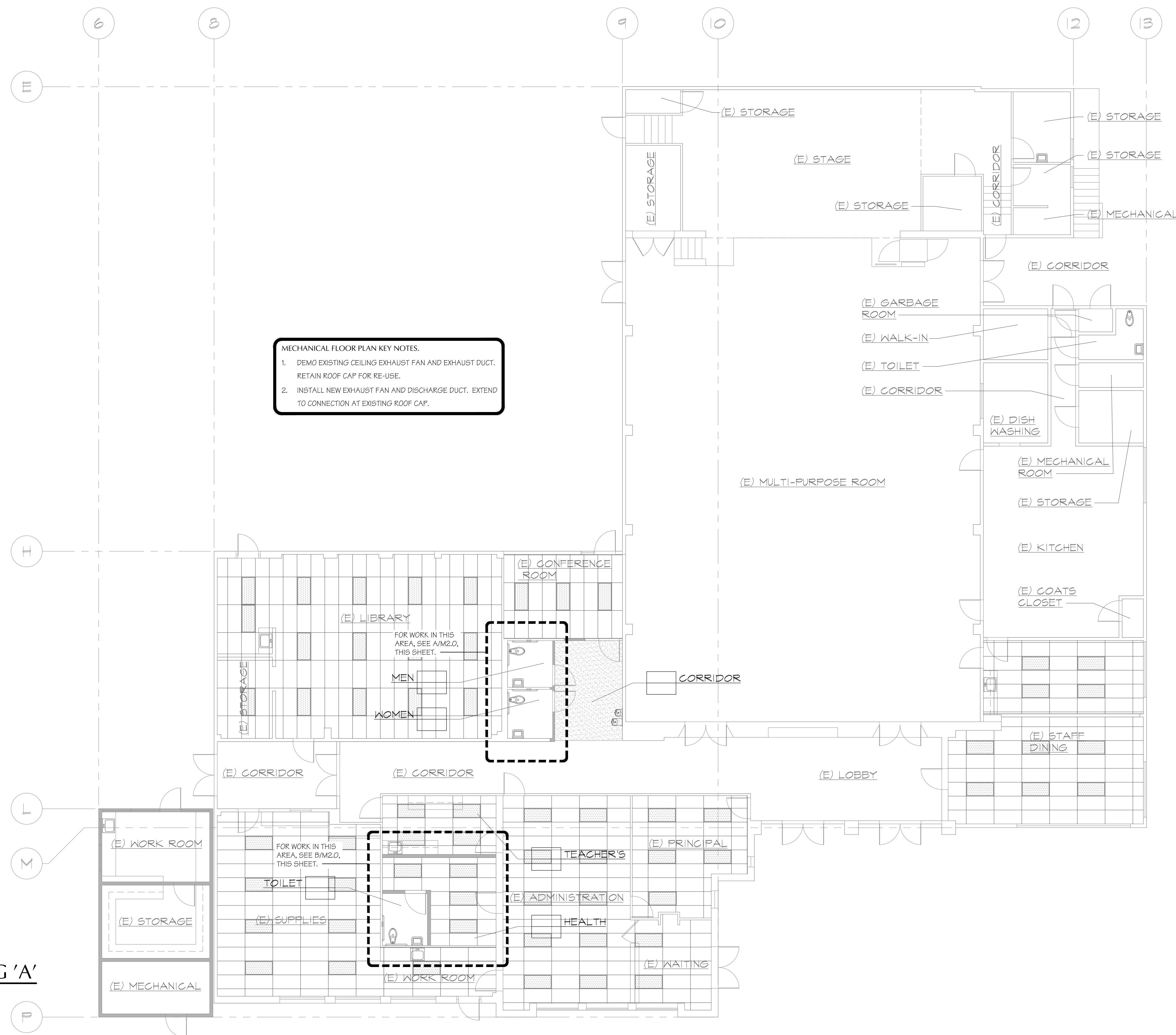
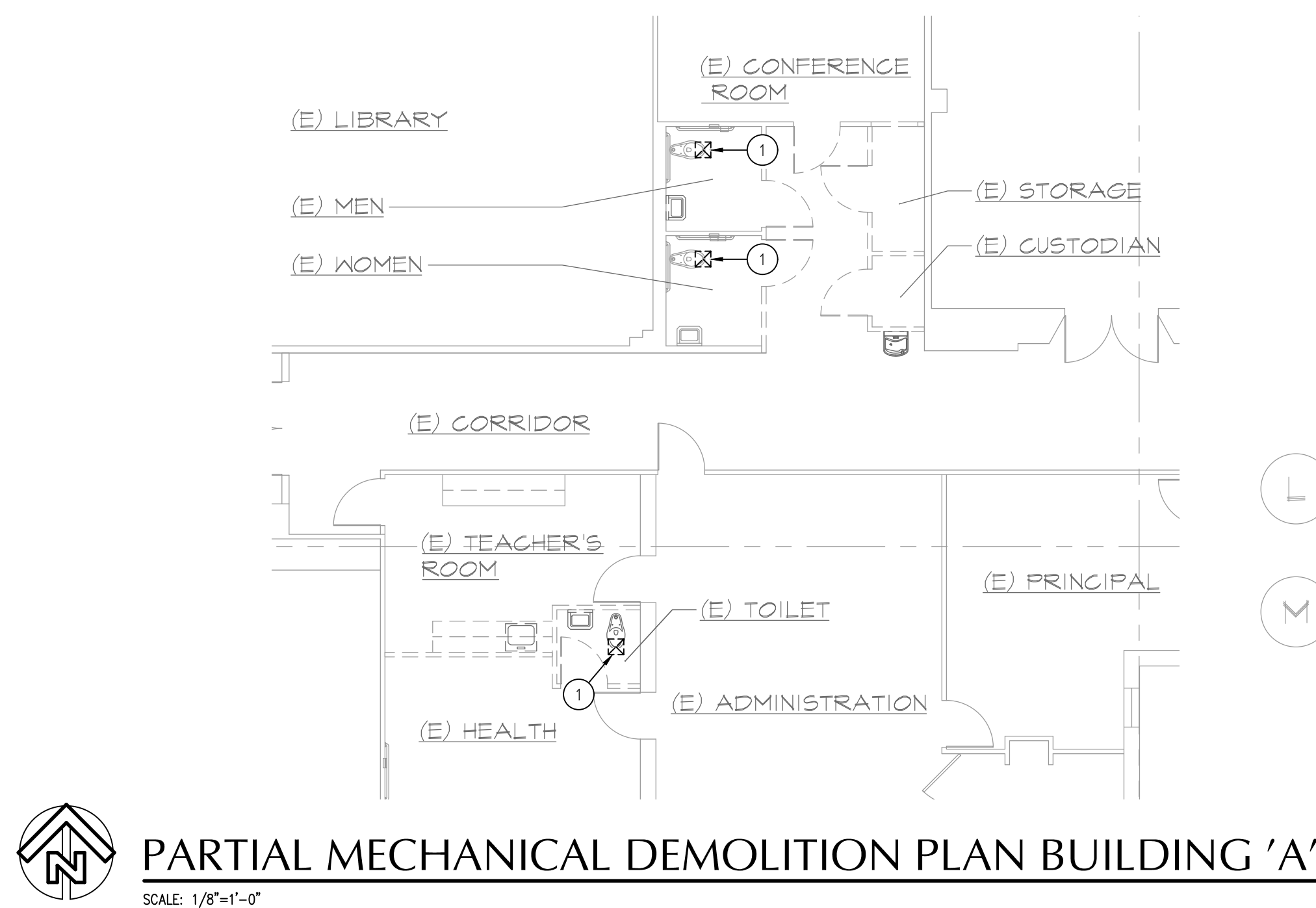
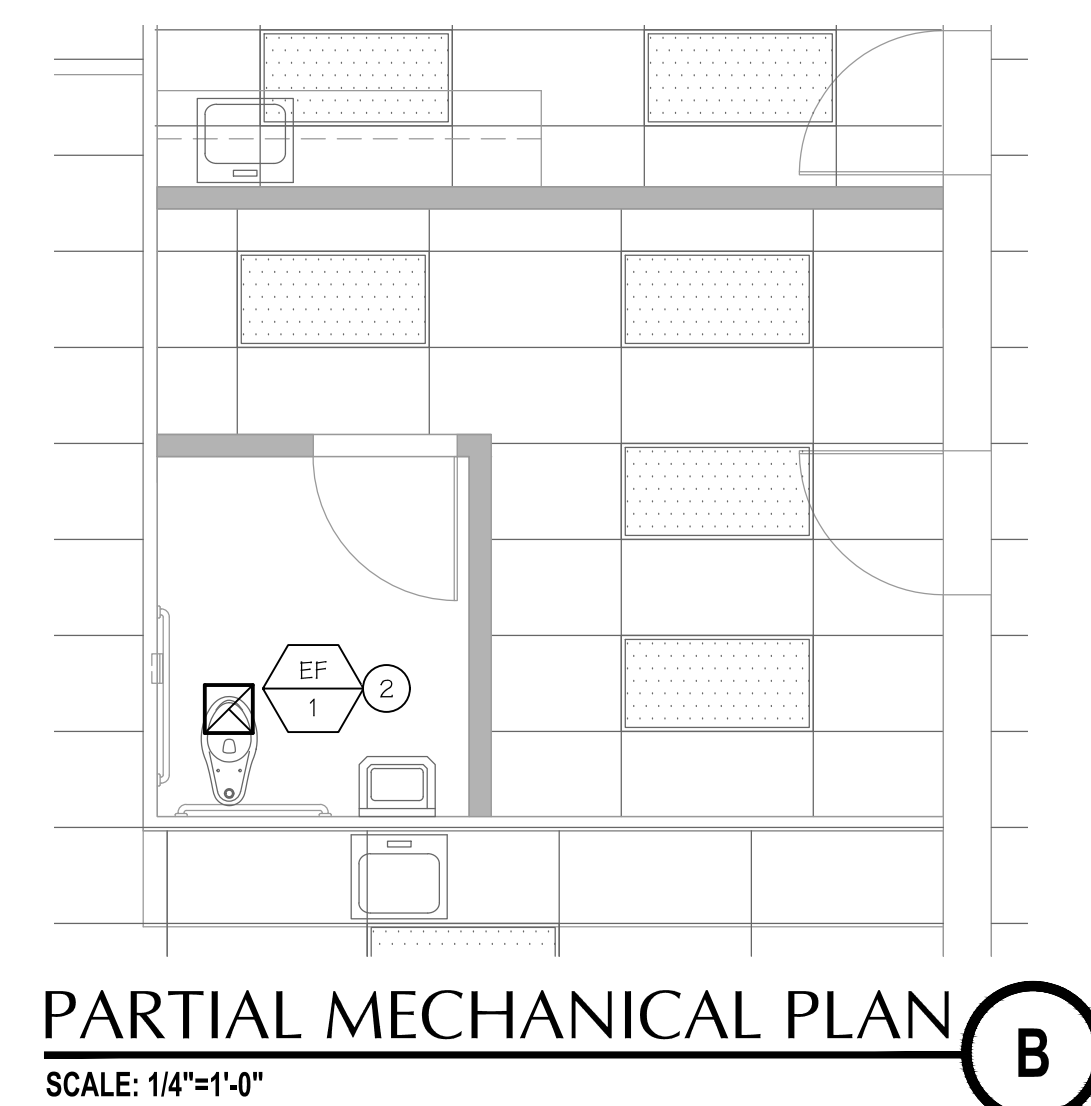
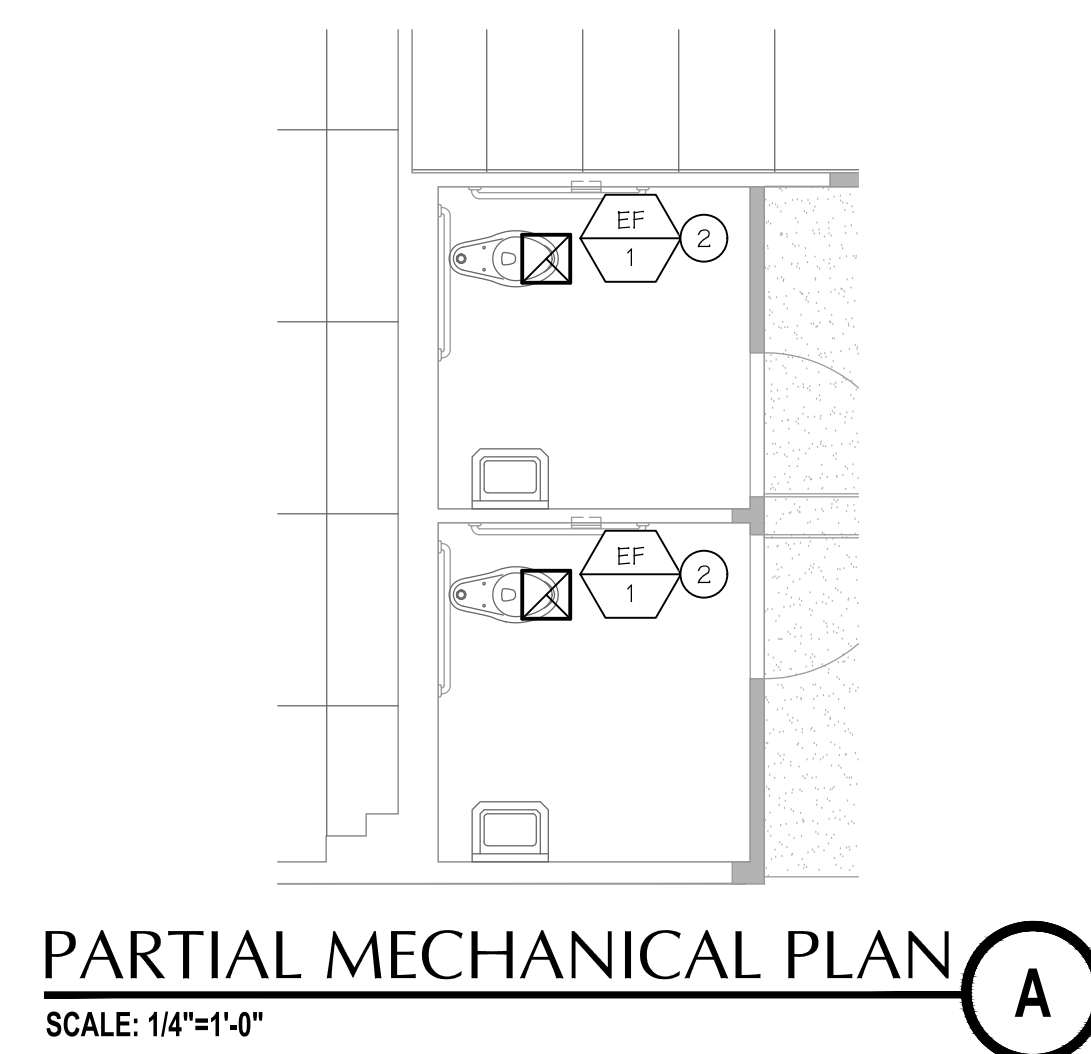
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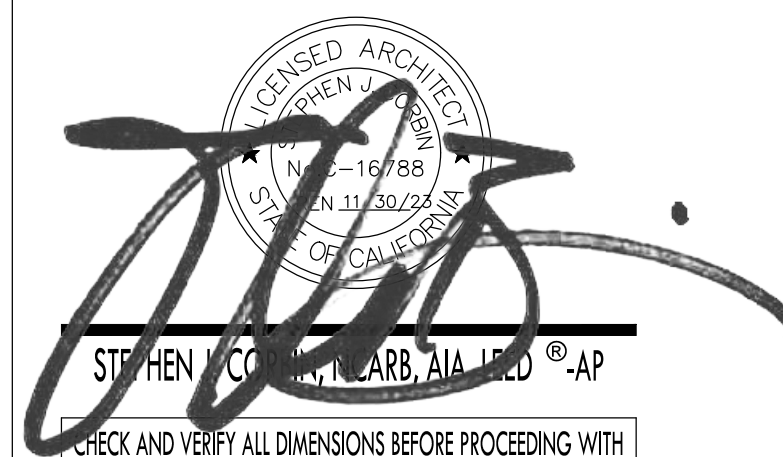
MECHANICAL FLOOR PLAN KEY NOTES.
1. DEMO EXISTING CEILING EXHAUST FAN AND EXHAUST DUCT. RETAIN ROOF CAP FOR RE-USE.
2. INSTALL NEW EXHAUST FAN AND DISCHARGE DUCT. EXTEND TO CONNECTION AT EXISTING ROOF CAP.

MECHANICAL PLAN BUILDING 'A'
SCALE: 1/8"=1'-0"

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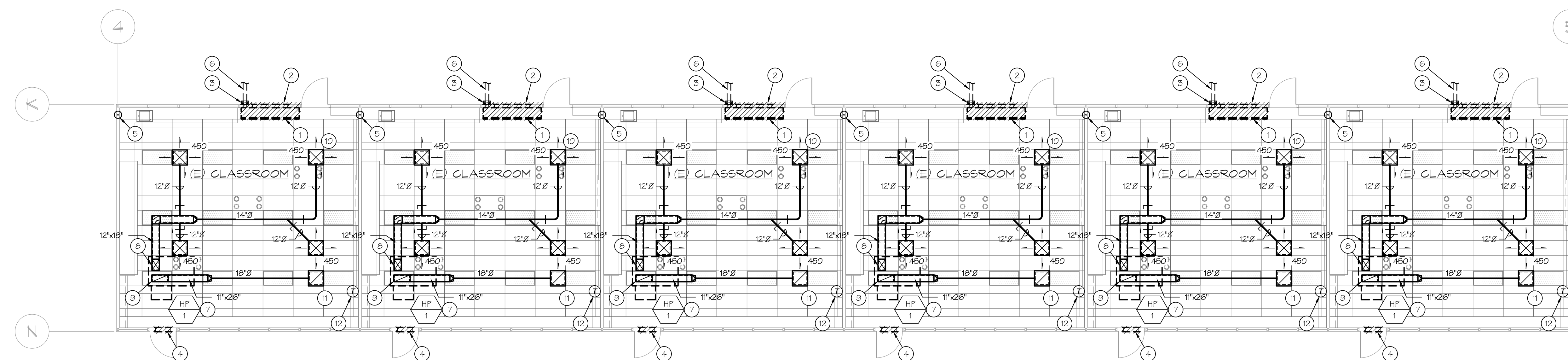
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MECHANICAL
PLAN BUILDING 'B'
AND BUILDING 'C'

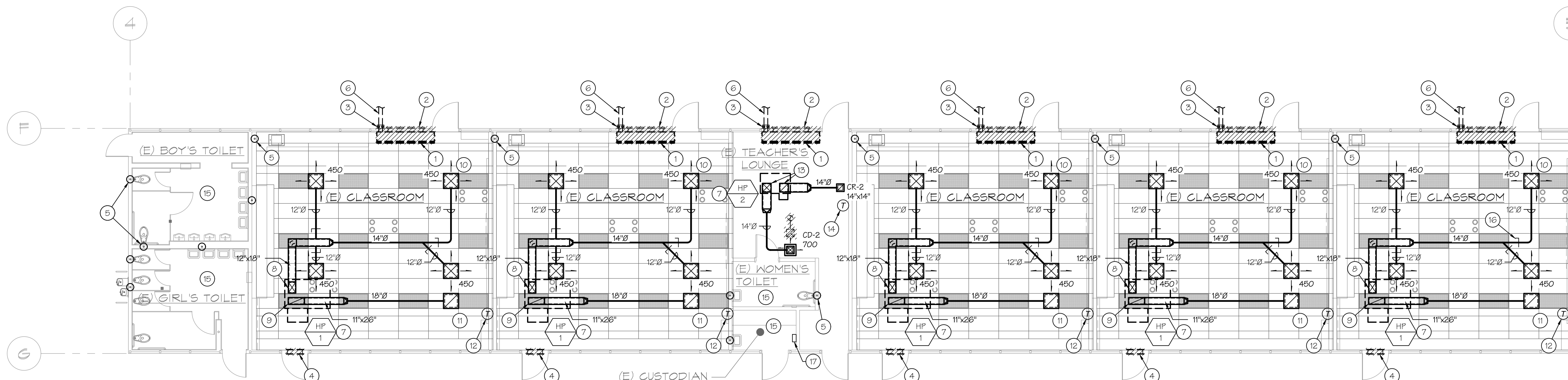
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MECHANICAL PLAN BUILDING 'B'
SCALE: 1/8"=1'-0"



MECHANICAL PLAN BUILDING 'C'
SCALE: 1/8"=1'-0"

MECHANICAL FLOOR PLAN KEY NOTES

1. REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, ALL RELATED MECHANICAL PIPING, CONDENSATE PIPING, CONTROLS, SUPPORTS, ANCHORAGE, ETC. PATCH EXISTING SURFACES TO MATCH EXISTING.
2. REMOVE EXISTING OUTSIDE AIR LOUVERS. INFILL / PATCH WALL TO MATCH EXISTING.
3. REMOVE EXISTING HYDRONIC AND CONDENSATE PIPING AND EXTERIOR CHASE. REMOVE PIPING TO 12" BELOW GRADE. CAP PIPING AND ABANDON IN PLACE.
4. REMOVE EXISTING GRAVITY RELIEF VENT, DUCTWORK, RELIEF GRILLE, ETC. INFILL TO MATCH SURROUNDING CONSTRUCTION.
5. EXISTING WASTE VENT, TYPICAL. CONFIRM EXACT LOCATION IN FIELD.
6. ABANDON IN PLACE BELOW GRADE SITE HYDRONIC PIPING.
7. ROOF MOUNTED HEAT PUMP UNIT. SEE MECHANICAL ROOF PLAN.
8. 12" X 18" SUPPLY AIR DROP WITH 1" LINER, 14" X 20" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M1.1.
9. 26" X 11" RETURN AIR RISER WITH 1" LINER, 28" X 13" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M1.1.
10. CD-1 TYPICAL. SEE DETAIL A/M1.1.
11. CR-1 TYPICAL.
12. T-STAT LOCATION TYPICAL. CLASSROOMS USE PELICAN TS250 WITH CO2 SENSOR AND DEMAND CONTROL VENTILATION.
13. 12" X 12" SUPPLY AND RETURN AIR DROPS WITH 1" LINER, 14" X 14" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL C/M1.1.
14. THIS THERMOSTAT TO BE A PELICAN TS200.
15. NO MECHANICAL WORK IN THIS ROOM.
16. SEE TYP. BRANCH DUCT DETAIL B/M1.1.
17. PELICAN WIRELESS GATEWAY w/ 115V PLUG CONNECTED TO WALL OUTLET AND CONNECTION TO LOCAL ROUTER. PROVIDE WALL MTD. BRACKET FOR MOUNTING. SEE DETAIL S E&F/M1.1.



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MECHANICAL
PLAN BUILDING 'D'
AND BUILDING 'E'

MARK	DATE	REVISIONS
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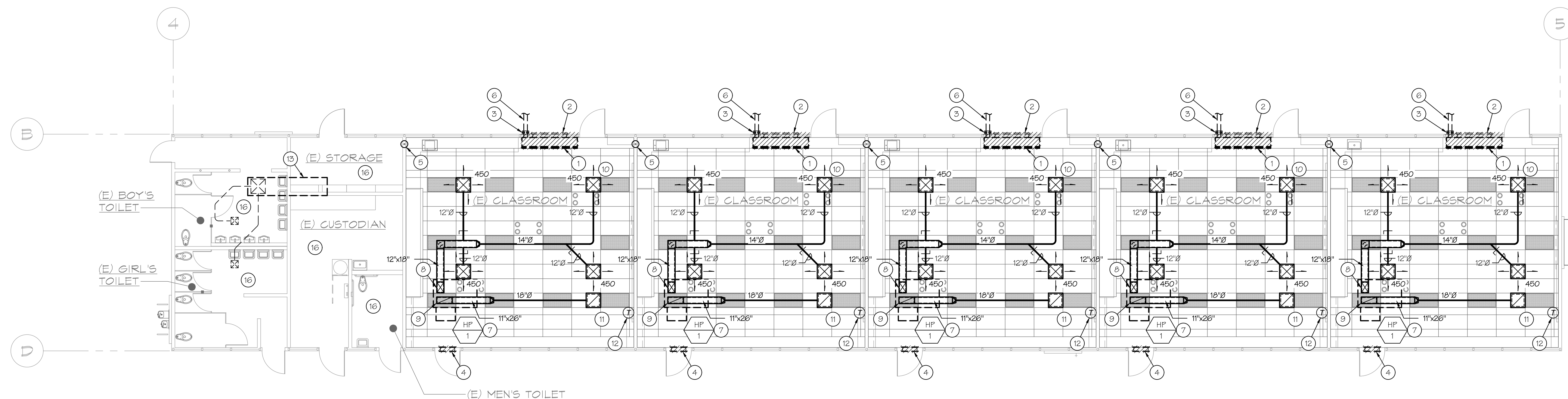
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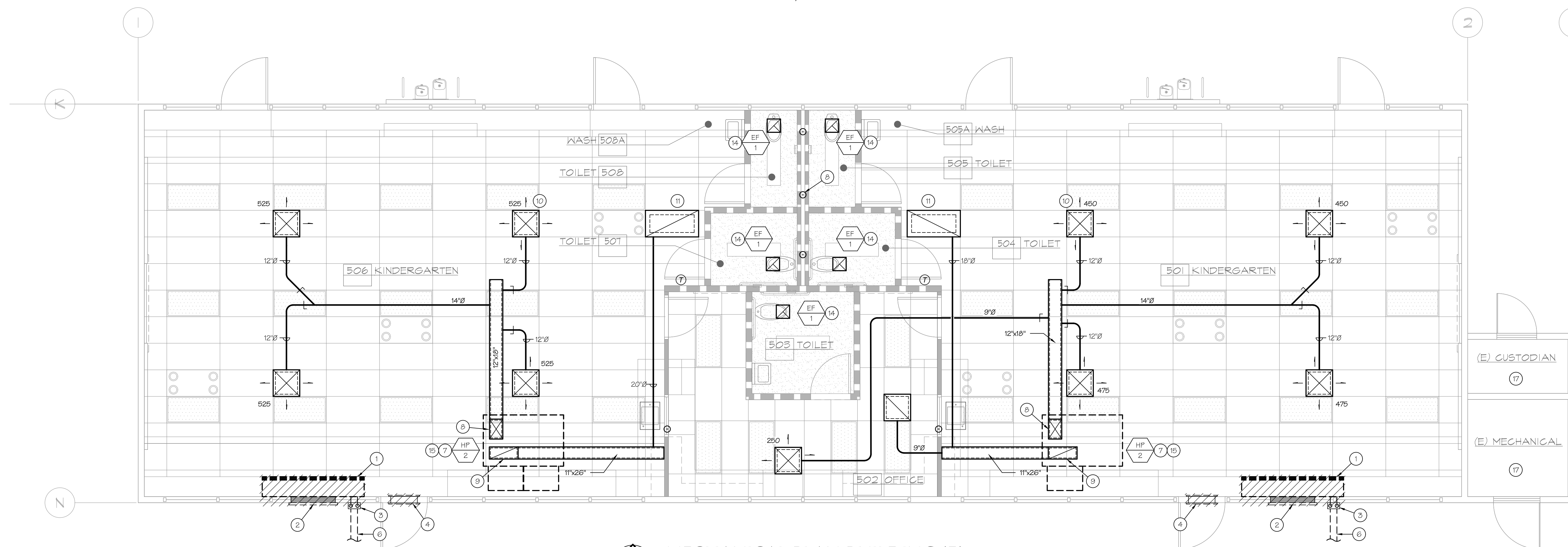


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MECHANICAL PLAN BUILDING 'D'
SCALE: 1/8"=1'-0"



MECHANICAL PLAN BUILDING 'E'
SCALE: 1/4"=1'-0"

MECHANICAL FLOOR PLAN KEY NOTES.

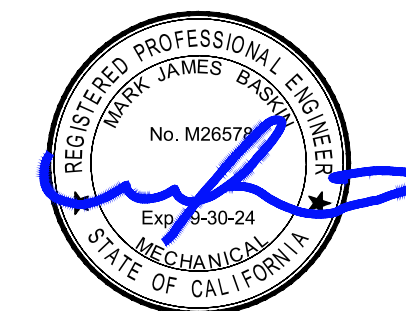
1. REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR, ALL RELATED MECHANICAL PIPING, CONDENSATE PIPING, CONTROLS, SUPPORTS, AND CHORAGE, ETC. PATCH EXISTING SURFACES TO MATCH EXISTING.
2. REMOVE EXISTING OUTSIDE AIR LOUVERS. INFILL / PATCH WALL TO MATCH EXISTING.
3. REMOVE EXISTING HYDRONIC AND CONDENSATE PIPING AND EXTERIOR CHASE. REMOVE PIPING TO 12" BELOW GRADE. CAP PIPING AND ABANDON IN PLACE.
4. REMOVE EXISTING GRAVITY RELIEF VENT, DUCTWORK, RELIEF GRILLE, ETC. INFILL TO MATCH SURROUNDING CONSTRUCTION.
5. EXISTING WASTE VENT, TYPICAL. CONFIRM EXACT LOCATION IN FIELD.
6. ABANDON IN PLACE BELOW GRADE SITE HYDRONIC PIPING.
7. ROOF MOUNTED HEAT PUMP UNIT. SEE MECHANICAL ROOF PLAN.
8. 12" X 18" SUPPLY AIR DROP WITH 1" LINER, 14" X 20" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL CM1.1.
9. 26" X 11" RETURN AIR RISER WITH 1" LINER, 28" X 13" NET. PROVIDE MITERED ELBOW AT BOTTOM OF RISER. SEE DETAIL CM1.1.
10. CD-1 TYPICAL. SEE DETAIL AJM1.1.
11. CR-1 TYPICAL.
12. T-STAT LOCATION TYPICAL. CLASSROOMS USE PELICAN TS250 WITH CO2 SENSOR AND DEMAND CONTROL VENTILATION. SEE TYP. DETAIL DM1.1.
13. EXISTING MAKE-UP-AIR UNIT SERVING TOILET ROOMS TO REMAIN. NO WORK.
14. DEMO EXISTING EXHAUST FAN AND INSTALL NEW EXHAUST FAN AND DISCHARGE DUCT. EXTEND TO CONNECTION AT EXISTING ROOF CAP.
15. THIS HP UNIT TO HAVE INTERLOCK WITH FIRE ALARM PANEL FOR AUTOMATIC SHUT-DOWN. SEE DETAIL HJM1.1.
16. NO MECHANICAL WORK IN THIS ROOM.

This site plan illustrates the layout of three buildings, labeled 'B', 'C', and 'D', within a defined area. The plan includes various roof features, HVAC units, and specific annotations.

- Building 'B' (Bottom):**
 - Contains five HVAC units, each labeled 'HP 1'.
 - Annotations include '(E) EAVE LINE', '(E) BUILDING LINE', and '(E) RIDGE LINE'.
 - A roof slope is indicated as $\frac{3}{4} \times 12$ SLOPE.
 - Additional annotations include '(E) SLOPE' and '(E) SLOPE'.
- Building 'C' (Middle):**
 - Contains five HVAC units, each labeled 'HP 1'.
 - Annotations include '(E) EAVE LINE', '(E) BUILDING LINE', and '(E) RIDGE LINE'.
 - A roof slope is indicated as $\frac{3}{4} \times 12$ SLOPE.
 - Additional annotations include '(E) SLOPE' and '(E) SLOPE'.
 - A central feature is labeled '10'-0" and '4'-0" (TYP.)'.
 - Other annotations include '(E) SLOPE' and '(E) SLOPE'.
- Building 'D' (Top):**
 - Contains five HVAC units, each labeled 'HP 1'.
 - Annotations include '(E) EAVE LINE', '(E) BUILDING LINE', and '(E) RIDGE LINE'.
 - A roof slope is indicated as $\frac{3}{4} \times 12$ SLOPE.
 - Additional annotations include '(E) SLOPE' and '(E) SLOPE'.

The plan also includes various other features and annotations, such as '7', '8', '9', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '20', '21', '22', '23', '24', '25', '26', '27', '28', '29', '30', '31', '32', '33', '34', '35', '36', '37', '38', '39', '40', '41', '42', '43', '44', '45', '46', '47', '48', '49', '50', '51', '52', '53', '54', '55', '56', '57', '58', '59', '60', '61', '62', '63', '64', '65', '66', '67', '68', '69', '70', '71', '72', '73', '74', '75', '76', '77', '78', '79', '80', '81', '82', '83', '84', '85', '86', '87', '88', '89', '90', '91', '92', '93', '94', '95', '96', '97', '98', '99', '100'.

1. NEW HP UNIT ON SLOPED ROOF. **DURO**. SEE DETAIL A/M 2. TYPICAL.
2. 12" X 18" SUPPLY DUCT DROP THRU ROOF WITH 1" LINER, 14" X 20" NET. TYPICAL.
3. 26" X 11" RETURN DUCT RISER THRU ROOF WITH 1" LINER, 28" X 13" NET. TYPICAL.
4. ECONOMIZER WITH POWER EXHAUST MODULE. SET MINIMUM OUTSIDE EQUAL TO 150 CFM WITH DEMAND CONTROL VENTILATION OVERRIDE TO 400 CFM. TYPICAL.
5. 10" X 12" SUPPLY AND RETURN DUCTS THRU ROOF WITH 1" LINER, 14" X 16" NET.
6. MOTORIZED OUTSIDE AIR DAMPER. SET TO 100 CFM.
7. EXISTING FURNACE ON ROOF. INTERLOCK START / STOP WITH PELICAN WIRELESS SYSTEM.
8. EXISTING EXHAUST FAN ON ROOF. INTERLOCK START / STOP WITH PELICAN WIRELESS SYSTEM.



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MECHANICAL
PARTIAL ROOF
BUILDING 'B',
'C' & 'D'

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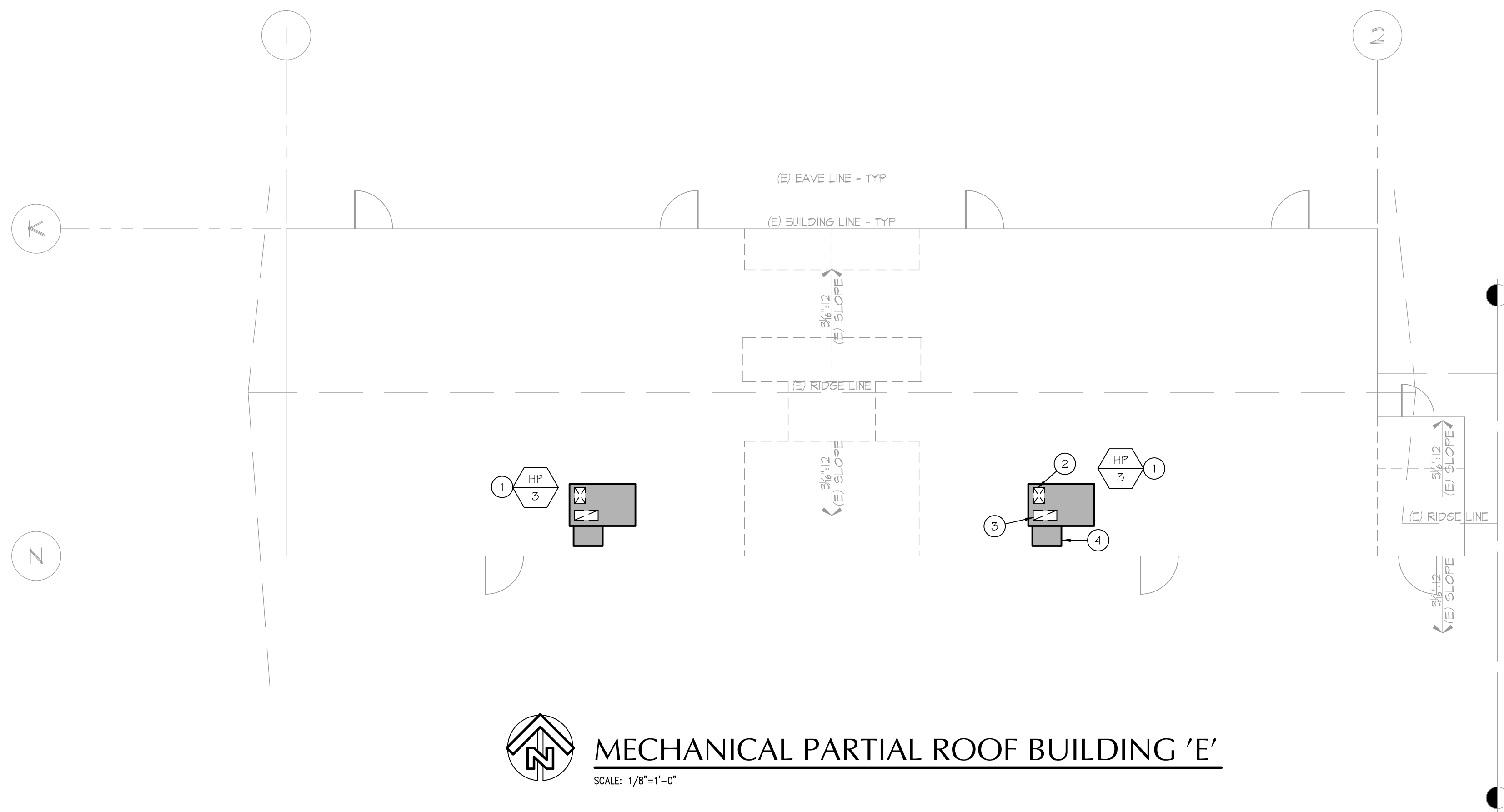


MECHANICAL
PARTIAL ROOF
BUILDING 'E'

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DATE :	8/5/21

M

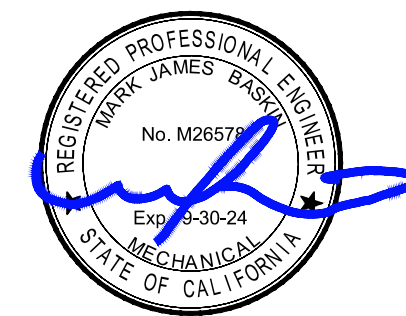
6.2



 MECHANICAL PARTIAL ROOF BUILDING 'E'

MECHANICAL ROOF PLAN KEY NOTES:

1. NEW HP UNIT ON SLOPED ROOF CURB. SEE DETAIL A/M12. TYPICAL.
2. 14" X 19" SUPPLY DUCT DROP THRU ROOF WITH 1" LINER, 16" X 21" NET. TYPICAL.
3. 26" X 11" RETURN DUCT RISER THRU ROOF WITH 1" LINER, 28" X 15" NET. TYPICAL.
4. ECONOMIZER WITH POWER EXHAUST MODULE. SET MINIMUM OUTSIDE EQUAL TO 200 CFM WITH DEMAND CONTROL VENTILATION OVERRIDE TO 500 CFM. TYPICAL.



**BASKIN
MECHANICAL
ENGINEERS**

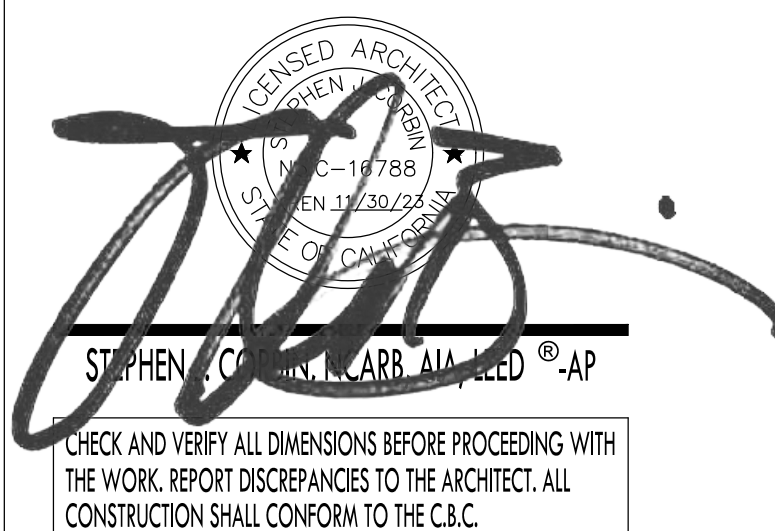
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21146
Plt: 12-13-22

PTN : 63321- FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM



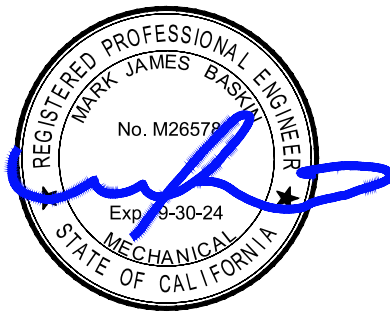
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'B'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.
1317
DRAWN:
B.S.
CHECKED:
M.B.
DATE:
8/5/21

M
7.1



BASKIN
MECHANICAL
ENGINEERS

175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21146
Pjt: 12-13-22

STATE OF CALIFORNIA
Mechanical Systems

NRCC-MCH-E	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name:	Roosevelt Elementary HVAC Upgrades Bld B
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L. VENTILATION AND INDOOR AIR QUALITY

² Air filtration requirements apply to the following three system types per §120.1(c)(1): space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

⁴ See Standards Tables 120.1-A and 120.1-B.

⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

⁶ §120.2(c) requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK AND PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(i) for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct systems:		HP-1 / B-1	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		

☐	Outdoors
☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(18) or if the roof has fixed vents or openings to the outside/ unconditioned spaces
☐	In an unconditioned crawl space

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STATE OF CALIFORNIA
Mechanical Systems

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L. DISTRIBUTION (DUCTWORK AND PIPING)

	☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

	Form/Title	Field Inspector
		Pass Fail
NRCC-MCH-01-E - Must be submitted for all buildings		☐ ☐

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Mechanical Systems

NRCC-MCH-E	CALIFORNIA ENERGY COMMISSION
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L. DISTRIBUTION (DUCTWORK AND PIPING)

	☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code
The answers to the questions below apply to the following duct systems:		
11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:

☐	Outdoors
☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(18) or if the roof has fixed vents or openings to the outside/ unconditioned spaces
☐	In an unconditioned crawl space
☐	In other unconditioned spaces

15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code
The answers to the questions below apply to the following duct systems:		
11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:

☐	Outdoors
☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(18) or if the roof has fixed vents or openings to the outside/ unconditioned spaces
☐	In an unconditioned crawl space

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STATE OF CALIFORNIA
Mechanical Systems

NRCC-MCH-E	CALIFORNIA ENERGY COMMISSION
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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06	☐	☐
NRCA-MCH-05-A - Air Economizer Controls	Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06	☐	☐
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)(3)) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO ₂) concentration setpoints.	Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06	☐	☐
NRCA-MCH-11-A Automatic Demand Shed Controls	Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06	☐	☐
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06	☐	☐

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STATE OF CALIFORNIA
Mechanical Systems

NRCC-MCH-E	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
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Report Page:	(Page 16 of 16)
Date Prepared:	12/9/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Mark Baskin	Documentation Author Signature: Mark Baskin, P.E. 2022-12-09 14:59:17-0800
Company: Baskin Mechanical Engineers	Signature Date: 2022-12-09
Address: 175 Fulton St.	214-NRCC Certification Identification (if applicable): M26578
City/State/Zip: Fresno CA 93721	Phone: (559) 237-0376

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 2 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 the building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building provides to the building owner or occupant.

Responsible Designer Name: Mark Baskin, P.E.	Responsible Designer Signature: Mark Baskin, P.E. 2022-12-09 14:59:34-0800
Company: Baskin Mechanical Engineers	Date Signed: 2022-12-09
Address: 175 Fulton	License: M26578
City/State/Zip: Fresno CA 93721	Phone: (559) 237-0376

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STATE OF CALIFORNIA
MECHANICAL SYSTEMS
NIRCC-MCH-E
CALIFORNIA ENERGY COMMISSION
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A. GENERAL INFORMATION

01 Project Location (city)

Bakersfield

04 Total Conditioned Floor Area

6210

02 Climate Zone

13

05 Total Unconditioned Floor Area

0

03 Occupancy Types Within Project:

☒ Office (B)

☐ Retail (M)

☐ Non-refrigerated Warehouse (S)

☐ Hotel/Motel Guest Rooms (R-1)

☐ School (E)

☐ Healthcare Facility (I)

☐ High-Rise Residential (R-2/R-3)

☐ Relocatable Class Bldg (E)

☒ Other (write in)

See Table J

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2) for alterations.

01

Air System(s)

02

Wet System Components

03

Dry System Components

☒ Heating Air System

☐ Water Economizer

☒ Air Economizer

☒ Cooling Air System

☐ Pumps

☐ Electric Resistance Heat

☐ Mechanical Controls

☐ System Piping

☐ Fan Systems

☒ Mechanical Controls (existing to remain, altered or new)

☐ Cooling Towers

☒ Ductwork (existing to remain, altered or new)

☐ Chillers

☒ Ventilation

☐ Boilers

☐ Zonal Systems/ Terminal Boxes

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C. COMPLIANCE RESULTS

This table is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2) for alterations.

01

System Summary

02

Pumps

03

Fans/Economizers

04

System Controls

05

Ventilation

06

Terminal Box Controls

07

Distribution

08

Cooling Towers

09

Compliance Results

(See Table F)

Yes

AND

(See Table G)

AND

(See Table H)

AND

(See Table I)

AND

(See Table J)

AND

(See Table K)

AND

(See Table L)

AND

(See Table M)

COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b), and §140.4(c) for alterations.

01

02

03

04

05

06

07

08

09

10

11

Equipment Sizing per Mechanical Schedule (kBtu/h)

§140.4 (a&b)

Heating Output^{1,3}

Cooling Output^{1,3}

Load Calculations^{1,4}

Supp. Heating Output (kBtu/h)

Sensible Per Design (kBtu/h)

Rated (kBtu/h)

Total Heating Load (kBtu/h)

Sensible Cooling Load (kBtu/h)

Total Sensible Cooling Load (kBtu/h)

HP-1 / C-1

Unitary Heat Pumps

Air-cooled, pkg (3 phase)

NA: Load Controls

70.44

54.86

36.18

55.65

46.32

59.29

62.08

HP-1 / C-2

Unitary Heat Pumps

Air-cooled, pkg (3 phase)

NA: Load Controls

70.44

54.86

36.18

53.92

46.32

56.45

59.57

HP-1 / C-3

Unitary AC/ Condensers

AC, air-cooled pkg (3 phase)

NA: Load Controls

49

49

0

52.26

44.73

56.19

59.79

HP-1 / C-4

Unitary AC/ Condensers

AC, air-cooled pkg (3 phase)

NA: Load Controls

49

49

0

52.26

44.73

56.19

59.79

HP-1 / C-5

Unitary AC/ Condensers

AC, air-cooled pkg (3 phase)

NA: Load Controls

49

49

0

52.29

44.73

59.04

61.39

HP-2 / Work room

Unitary Heat Pumps

Air-cooled, pkg (3 phase)

NA: Load Controls

32.41

22.38

18.43

22.31

17.63

48.54

55.29

¹ FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are exempted.

² It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(c).

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01

02

03

04

05

06

07

08

09

Heating Mode

Minimum Efficiency Required per Tables 110.2 / Title 20

Design Efficiency

Efficiency Unit

Minimum Efficiency Required per Tables 110.2 / Title 20

Design Efficiency

Efficiency Unit

HP-1 / C-1

<=65,000

HSPF

7.7

8.3

SEER

13.0

16.2

HP-1 / C-2

<=65,000

HSPF

7.7

8.3

SEER

13.0

16.2

HP-1 / C-3

<=65,000

AFUE

0.80

0.81

SEER

13.0

16.1

HP-1 / C-4

<=65,000

AFUE

0.80

0.81

SEER

13.0

16.1

HP-1 / C-5

<=65,000

AFUE

0.80

0.81

SEER

13.0

16.1

HP-2 / Work room

<=65,000

HSPF

7.7

8.2

SEER

13.0

14.5

G. PUMPS

This section does not apply to this project.

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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(d), and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

01

02

03

04

05

06

07

08

System Name

HP-1 / C-1

Economizer¹

Fixed Temperature

Economizer Controls:

Designed per §140.4(c) and (m)

System Fan Type:

Variable Air Volume

Fan Name or Item Tag

Fan Function

Qty

Maximum Design Supply Airflow (CFM)

HP Unit²

Design HP

Fan Power Pressure Drop Adjustment - Table 140.4-B

SF

Supply

1

1800

BHP

0.66

Device

Design Airflow through Device (CFM)

Total System Design Supply Airflow (CFM):

1800

Total System Design (BHP):

0.66

Maximum System Fan Power (BHP):

01

02

03

04

05

06

07

08

System Name

HP-1 / C-2

Economizer¹

Fixed Temperature

Economizer Controls:

Designed per §140.4(c) and (m)

System Fan Type:

Variable Air Volume

Fan Name or Item Tag

Fan Function

Qty

Maximum Design Supply Airflow (CFM)

HP Unit²

Design HP

Fan Power Pressure Drop Adjustment - Table 140.4-B

SF

Supply

1

1800

BHP

0.66

Device

Design Airflow through Device (CFM)

Total System Design Supply Airflow (CFM):

1800

Total System Design (BHP):

0.66

Maximum System Fan Power (BHP):

01

02

03

04

05

06

07

08

System Name

HP-1 / C-3

Economizer¹

Fixed Temperature

Economizer Controls:

Designed per §140.4(c) and (m)

System Fan Type:

Variable Air Volume

Fan Name or Item Tag

Fan Function

Qty

Maximum Design Supply Airflow (CFM)

HP Unit²

Design HP

Fan Power Pressure Drop Adjustment - Table 140.4-B

SF

Supply

1

1800

BHP

0.66

Device

Design Airflow through Device (CFM)

Total System Design Supply Airflow (CFM):

1800

Total System Design (BHP):

0.66

Maximum System Fan Power (BHP):

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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(d), and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

01

02

03

04

05

06

07

08

System Name

HP-1 / C-4

Economizer¹

Fixed Temperature

Economizer Controls:

Designed per §140.4(c) and (m)

System Fan Type:

Variable Air Volume

Fan Name or Item Tag

Fan Function

Qty

Maximum Design Supply Airflow (CFM)

HP Unit²

Design HP

Fan Power Pressure Drop Adjustment - Table 140.4-B

SF

Supply

1

1800

BHP

0.72

Device

Design Airflow through Device (CFM)

Total System Design Supply Airflow (CFM):

1800

Total System Design (BHP):

0.72

Maximum System Fan Power (BHP):

01

02

03

04

05

06

07

08

System Name

HP-1 / C-5

Economizer¹

Fixed Temperature

Economizer Controls:

Designed per §140.4(c) and (m)

System Fan Type:

Variable Air Volume

Fan Name or Item Tag

Fan Function

Qty

Maximum Design Supply Airflow (CFM)

HP Unit²

Design HP

Fan Power Pressure Drop Adjustment - Table 140.4-B

SF

Supply

1

1800

BHP

0.72

Device

Design Airflow through Device (CFM)

Total System Design Supply Airflow (CFM):

1800

Total System Design (BHP):

0.72

Maximum System Fan Power (BHP):

01

02

03

04

05

06

07

08

System Name

HP-2 / Work room

Economizer¹

NA: <=54 kBtu/h cooling

Economizer Controls:

Designed per §140.4(c) and (m)

System Fan Type:

Constant Volume

Fan Name or Item Tag

Fan Function

Qty

Maximum Design Supply Airflow (CFM)

HP Unit²

Design HP

Fan Power Pressure Drop Adjustment - Table 140.4-B

SF

Supply

1

700

BHP

0.38

Device

Design Airflow through Device (CFM)

Total System Design Supply Airflow (CFM):

700

Total System Design (BHP):

0.38

Maximum System Fan Power (BHP):

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STATE OF CALIFORNIA
MECHANICAL SYSTEMS
NIRCC-MCH-E
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bid C
Report Page: (Page 7 of 18)
Project Address: 2324 Verde Street Date Prepared: 12/9/2022

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2, and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)(2) for altered space conditioning systems.

01

02

03

04

05

06

07

08

09

System Name

System Zoning

Conditioned Floor Area Being Served (ft²)

Thermostats §110.2(a)(4) & (c), §120.2(a)(4) or §141.0(b)(2)

Shut-Off Controls §120.2(a)(4)

Isolation Zone Controls §120.2(a)(4)

Demand Response §110.12 and §120.2(b)

Supply Air Temp. Reset §140.4(f)

Window Interlocks per §140.4(n)

HP-1 / C-1

Single zone

<= 25,000 ft²

Setback

Auto Timer Switch

4 Hour Timer

EMCS

Included

Provided

HP-1 / C-2

Single zone

<= 25,000 ft²

Setback

Auto Timer Switch

4 Hour Timer

EMCS

Included

Provided

HP-1 / C-3

Single zone

<= 25,000 ft²

Setback

Auto Timer Switch

4 Hour Timer

EMCS

Included

Provided

HP-1 / C-4

Single zone

<= 25,000 ft²

Setback

Auto Timer Switch

4 Hour Timer

EMCS

Included

Provided

HP-1 / C-5

Single zone

<= 25,000 ft²

Setback

Auto Timer Switch

4 Hour Timer

EMCS

Included

Provided

HP-2 / Work room

Single zone

<= 25,000 ft²

Setback

Auto Timer Switch

4 Hour Timer

EMCS

Included

Provided

¹ FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

² Notes: Controls with a " require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d); EXCEPTION 1 to §140.4(d)

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STATE OF CALIFORNIA
MECHANICAL SYSTEMS
NIRCC-MCH-E
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bid C
Report Page: (Page 8 of 18)
Project Address: 2324 Verde Street Date Prepared: 12/9/2022

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(c)(38) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

01

02

03

04

05

06

07

08

Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.

Check this box if the project included Nonresidential or Hotel/Motel spaces.

Check this box if the project included new or altered high-rise residential dwelling units.

Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)(2).

Nonresidential and Motel Ventilation Systems

04

05

06

07

System Name

HP-1 / C-1

System Design OA CFM Airflow¹

365

System Design Transfer Air CFM

0

Air Filtration per §120.1(c) and §141.0(b)(2) ²

08

09

10

11

12

13

14

15

16

Space Name or Item Tag

Occupancy Type⁶

Conditioned Floor Area (ft²)

of Shower/heads/toilets

of people⁵

Required Min OA CFM

Required Min CFM

Provided per Design CFM

Classroom C1

Lecture/ postsecondary classroom

960

364.8

0

0

DCV

Provided per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁶

17

Total System Required Min OA CFM

365

18

Ventilation for this System Complies? ⁷

Yes

04

05

06

07

System Name

HP-1 / C-2

System Design OA CFM Airflow¹

365

System Design Transfer Air CFM

0

Air Filtration per §120.1(c) and §141.0(b)(2) ²

08

09

10

11

12

13

14

15

16

Space Name or Item Tag

Occupancy Type⁶

Conditioned Floor Area (ft²)

of Shower/heads/toilets

of people⁵

Required Min OA CFM

Required Min CFM

Provided per Design CFM

Classroom C1

Lecture/ postsecondary classroom

960

364.8

0

0

DCV

Provided per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁶

17

Total System Required Min OA CFM

365

18

Ventilation for this System Complies? ⁷

Yes

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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Registration Provider: Energysoft
Report Generated: 2022-12-09 15:18:10
Schema Version: rev 20200601

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
NIRCC-MCH-E
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bid C
Report Page: (Page 9 of 18)
Project Address: 2324 Verde Street Date Prepared: 12/9/2022

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(c)(38) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

01

02

03

04

05

06

07

08

Space Name or Item Tag

Occupancy Type⁶

Conditioned Floor Area (ft²)

of Shower/heads/toilets

of people⁵

Required Min OA CFM

Required Min CFM

Provided per Design CFM

Classroom C2

Lecture/ postsecondary classroom

960

364.8

0

0

DCV

Provided per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁶

17

Total System Required Min OA CFM

365

18

Ventilation for this System Complies? ⁷

Yes

04

05

06

07

System Name

HP-1 / C-3

System Design OA CFM Airflow¹

365

System Design Transfer Air CFM

0

Air Filtration per §120.1(c) and §141.0(b)(2) ²

08

09

10

11

12

13

14

15

16

Space Name or Item Tag

Occupancy Type⁶

Conditioned Floor Area (ft²)

of Shower/heads/toilets

of people⁵

Required Min OA CFM

Required Min CFM

Provided per Design CFM

Classroom C3

Lecture/ postsecondary classroom

960

364.8

0

0

DCV

Provided per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁶

17

Total System Required Min OA CFM

365

18

Ventilation for this System Complies? ⁷

Yes

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/05/2023

PTN : 63321- FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT
SC
INC.

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

REGISTERED ARCHITECT
JAMES B. BASKIN
No. 12788
JAN 17, 2024
STATE OF CALIFORNIA

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'C'
TITLE-24

MARK DATE REVISIONS

JOB NO.
1317
DRAWN:
B.S.
CHECKED:
M.B.
DATE:
8/5/21

M
7.2

BASKIN
MECHANICAL
ENGINEERS

175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21146
Pit: 12-13-22

STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E
CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bid C
Project Address: 2324 Verde Street
Report Page: (Page 10 of 18)
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J. VENTILATION AND INDOOR AIR QUALITY									
Space Name or Item Tag	Occupancy Type ¹	Mechanical Ventilation Required per §120.1(c)3 ³			Exh. Vent per §120.1(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ⁴	
		Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ²	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
Classroom C4	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name		System Design OA CFM Airflow ¹		365	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ¹ Provided per §120.1(c) (NR and Hotel/Motel)	
08		09		10	11	12	13	14	15
Mechanical Ventilation Required per §120.1(c)3 ³									
Space Name or Item Tag	Occupancy Type ¹	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ²	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ⁴	
Classroom C5	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				365	18	Ventilation for this System Complies?		Yes
04		05			06			07	
System Name		System Design OA CFM Airflow ¹		432	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) and §141.0(b)2 ¹ Provided per §120.1(c) (NR and Hotel/Motel)	
08		09		10	11	12	13	14	15

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E
CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bid C
Project Address: 2324 Verde Street
Report Page: (Page 13 of 18)
Date Prepared: 12/9/2022

DISTRIBUTION (DUCTWORK AND PIPING)				
The answers to the questions below apply to the following duct systems:		HP-1 / C-3	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐ Outdoors		
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of 140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawl space		
		☐ In other unconditioned spaces		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code		
The answers to the questions below apply to the following duct systems:		HP-1 / C-4	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐ Outdoors		
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of 140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawl space		
		☐ In other unconditioned spaces		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code		

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Schema Version: rev 20200601
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STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E
CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bid C
Project Address: 2324 Verde Street
Report Page: (Page 16 of 18)
Date Prepared: 12/9/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE									
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/									
Form/Title		Systems/Spaces To Be Field Verified		Field Inspector					
				Pass	Fail				
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.		Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 50VT-C24;		☐	☐				
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".		Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 50VT-C24;		☐	☐				
NRCA-MCH-05-A - Air Economizer Controls		Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 50VT-C24;		☐	☐				
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(d)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO ₂) concentration setpoints.		Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 50VT-C24;		☐	☐				
NRCA-MCH-11-A Automatic Demand Shed Controls		Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 50VT-C24;		☐	☐				

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Schema Version: rev 20200601
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STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E
CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bid C
Project Address: 2324 Verde Street
Report Page: (Page 11 of 18)
Date Prepared: 12/9/2022

J. VENTILATION AND INDOOR AIR QUALITY									
Space Name or Item Tag	Occupancy Type ¹	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ²	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 ⁴	
Classroom C1	Lecture/ postsecondary classroom	960			364.8	0	0	DCV	Provided per §120.1(d)4
								Occ Sensor	NA: Not required space type
Work room	Office space	450			67.5	0	0	DCV	NA: Not required space type
								Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				432	18	Ventilation for this System Complies?		
									Yes

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system
² Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space
³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
⁴ See Standards Tables 120.1-A and 120.1-B.
⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
⁶ §120.1(d)3 requires systems serving rooms that are required by §130.1(c)1 to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 2500' or smaller; multipurpose rooms less than 1,000 ft²; classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E
CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bid C
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Report Page: (Page 13 of 18)
Date Prepared: 12/9/2022

L. DISTRIBUTION (DUCTWORK AND PIPING)				
The answers to the questions below apply to the following duct systems:		HP-1 / C-5	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐ Outdoors		
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawl space		
		☐ In other unconditioned spaces		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code		
The answers to the questions below apply to the following duct systems:		HP-2 / Work room	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities		
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.		
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.		
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:		
		☐ Outdoors		
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)18 or if the roof has fixed vents or openings to the outside/ unconditioned spaces		
		☐ In an unconditioned crawl space		
		☐ In other unconditioned spaces		
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code		

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Schema Version: rev 20200601
Report Generated: 2022-12-09 15:18:10

STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E
CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bid C
Project Address: 2324 Verde Street
Report Page: (Page 17 of 18)
Date Prepared: 12/9/2022

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE									
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/									
Form/Title		Systems/Spaces To Be Field Verified		Field Inspector					
				Pass	Fail				
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 50VT-C24;		☐	☐				
NRCA-MCH-16-A Supply Air Temperature Reset Controls		Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 50VT-C24;		☐	☐				
NRCA-MCH-18-A Energy Management Control Systems		Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 50VT-C24;		☐	☐				

STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E
CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bid C
Project Address: 2324 Verde Street
Report Page: (Page 17 of 18)
Date Prepared: 12/9/2022

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
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Schema Version: rev 20200601
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STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E
CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bid C
Project Address: 2324 Verde Street
Report Page: (Page 12 of 18)
Date Prepared: 12/9/2022

PTN : 63321- FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-0378
WWW.SCARCHITECT.COM



CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'D'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.
1317
DRAWN:
B.S.
CHECKED:
M.B.
DATE:
8/5/21

M
7.4

STATE OF CALIFORNIA
NRC-MCH-E
MECHANICAL SYSTEMS
CALIFORNIA ENERGY COMMISSION
NRC-MCH-E
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2), for alterations.
Project Name: Roosevelt Elementary HVAC Upgrades Bld D Report Page: (Page 1 of 16)
Project Address: 2324 Verde Street Date Prepared: 12/9/2022

A. GENERAL INFORMATION	
01 Project Location (city)	Bakersfield
02 Climate Zone	13
03 Occupancy Types Within Project:	04 Total Unconditioned Floor Area
☐ Office (O)	☐ Retail (M)
☐ Hotel/ Motel Guest Rooms (R-1)	☐ School (E)
☐ High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)
	See Table J

B. PROJECT SCOPE
This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2), for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☒ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
☐ Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft Schema Version: rev 20200601
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STATE OF CALIFORNIA
NRC-MCH-E
MECHANICAL SYSTEMS
CALIFORNIA ENERGY COMMISSION
NRC-MCH-E
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2), for alterations.
Project Name: Roosevelt Elementary HVAC Upgrades Bld D Report Page: (Page 4 of 16)
Project Address: 2324 Verde Street Date Prepared: 12/9/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)							
Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))							
01	02	03	04	05	06	07	08
Name or Item Tag	Size Category (Btu/h)	Rating Convention (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20
HP-1 / D-1	<65,000	HSPF	7.7	8.3	SEER	13.0	16.2
HP-1 / D-2	<65,000	HSPF	7.7	8.3	SEER	13.0	16.2
HP-1 / D-3	<65,000	AFUE	0.80	0.81	SEER	13.0	16.1
HP-1 / D-4	<65,000	AFUE	0.80	0.81	SEER	13.0	16.1
HP-1 / D-5	<65,000	AFUE	0.80	0.81	SEER	13.0	16.1

G. PUMPS
This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS							
This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e), and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.							
System Name:	HP-1 / D-1	Economizer ¹	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP	0.66		
Total System Design Supply Airflow (CFM):			1800	Total System Design (BHP):		0.66	Maximum System Fan Power (BHP):

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I. SYSTEM CONTROLS
This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e), and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: 5A Temp Reset: Exempt because zones compliant with §140.4(d); EXCEPTION 1 to §140.4(d)

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1, and §120.2(c)(3) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential or Hotel/Motel spaces
03	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)(2).

Nonresidential and Hotel/ Motel Ventilation Systems

04		05		06			07
System Name	HP-1 / D-1	System Design OA CFM Airflow ¹	365	System Design Transfer Air CFM	0		Air Filtration per §120.1(c) and §141.0(b)(2) Provided per §120.1(c)(2) (NR and Hotel/Motel)
08	09	10	11	12	13	14	15
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)(3) ²				Ex. Vent per §120.1(c)(4)		DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(d)(3) ³
	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	
Classroom D1	Lecture/ postsecondary classroom	960			364.8	0	DCV Provided per §120.1(d)(4)
							Occ Sensor NA- Not required space type
17	Total System Required Min OA CFM		365	18	Ventilation for this System Complies?		Yes

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C. COMPLIANCE RESULTS																
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table L, or the table indicated as not compliant for guidance.																
01		02		03		04		05		06		07		08		09
System Summary	AND	Pumps	AND	Fans/Economizers	AND	System Controls	AND	Ventilation	AND	Terminal Box Controls	AND	Distribution	AND	Cooling Towers	AND	Compliance Results
§110.1, §110.2, §140.4		§140.4(b)		§140.4(c), §140.4(d)		§110.2, §120.2, §140.4(f)		§120.1		§140.4(g)		§120.3, §140.4(h)		§110.2(c)(2)		
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)	(See Table N)	(See Table O)	(See Table P)	(See Table Q)	(See Table R)	(See Table S)	(See Table T)	(See Table U)	(See Table V)
Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	COMPLIES
Mandatory Measures Compliance (See Table Q for Details)																
COMPLIES																

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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H. FAN SYSTEMS & AIR ECONOMIZERS							
System Name:	HP-1 / D-2	Economizer ¹	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP	0.66		
Total System Design Supply Airflow (CFM):			1800	Total System Design (BHP):		0.66	Maximum System Fan Power (BHP):
System Name:	HP-1 / D-3	Economizer ¹	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP	0.72		
Total System Design Supply Airflow (CFM):			1800	Total System Design (BHP):		0.72	Maximum System Fan Power (BHP):
System Name:	HP-1 / D-4	Economizer ¹	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP	0.72		
Total System Design Supply Airflow (CFM):			1800	Total System Design (BHP):		0.72	Maximum System Fan Power (BHP):

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J. VENTILATION AND INDOOR AIR QUALITY															
System Name	HP-1 / D-2	System Design OA CFM Airflow ¹	365	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)(2) ²									
08	09	10	11	12	13	14	15	16							
Space Name or Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁶							
Classroom D2	Lecture/ postsecondary classroom	960			364.8	0	0	DCV							
17 Total System Required Min OA CFM			365	18	Ventilation for this System Complies?										
Yes															
System Name	HP-1 / D-3	System Design OA CFM Airflow ¹	365	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)(2) ²									
08	09	10	11	12	13	14	15	16							
Space Name or Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁶							
Classroom D3	Lecture/ postsecondary classroom	960			364.8	0	0	DCV							
17 Total System Required Min OA CFM			365	18	Ventilation for this System Complies?										
Yes															

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Project Name: Roosevelt Elementary HVAC Upgrades Bld D Report Page: (Page 3 of 16)
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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)										
This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1, and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b), and §140.4(c), or §141.0(b)(2), for alterations.										
Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)										
01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available ¹ §140.4(a)	Equipment Sizing per Mechanical Schedule (kBtu/h)						
				Heating Output ^{2,3}			Cooling Output ^{2,3}		Load Calculations ^{3,4}	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-1 / D-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	\$4.86	36.18	\$5.65	46.32	\$9.29	62.08
HP-1 / D-2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	70.44	\$4.86	36.18	\$5.92	46.32	\$6.45	\$9.57
HP-1 / D-3	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	49	49	0	\$2.26	44.73	\$6.19	59.79
HP-1 / D-4	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	49	49	0	\$2.26	44.73	\$6.19	59.79
HP-1 / D-5	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	49	49	0	\$2.29	44.73	\$9.04	61.39

FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.
²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
³If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
⁴Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(a).

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H. FAN SYSTEMS & AIR ECONOMIZERS							
System Name:	HP-1 / D-5	Economizer ¹	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Variable Air Volume
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Design Airflow through Device (CFM)
SF	Supply	1	1800	BHP	0.72		
Total System Design Supply Airflow (CFM):			1800	Total System Design (BHP):		0.72	Maximum System Fan Power (BHP):

FOOTNOTES: Computer room economizers must meet requirements of §140.9(a), and will be documented on the NRC-PRC-E document.
²The unit used for HP must be consistent for all fans within a system.

I. SYSTEM CONTROLS								
This table is used to demonstrate compliance with mandatory controls in §110.2, and §120.2, and prescriptive controls in §140.4(f), and (n) or requirements in §141.0(b)(2), for altered space conditioning systems.								
01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats §110.2(b), §141.0(c), §120.2(a)(or §141.0(b)(2))	Shut-Off Controls §120.2(c)	Isolation Zone Controls §120.2(a)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
HP-1 / D-1	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / D-2	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / D-3	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / D-4	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-1 / D-5	Single zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

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J. VENTILATION AND INDOOR AIR QUALITY																	
04				05		06				07							
System Name		HP-1 / D-4		System Design OA CFM Airflow ¹		365		System Design Transfer Air CFM		0		Air Filtration per §120.1(c) and §141.0(b)(2) ² Provided per §120.1(c) (NR and Hotel/Motel)					
08		09		10		11		12		13		14		15			
		Mechanical Ventilation Required per §120.1(c)(3) ³										Exh. Vent per §120.1(c)(4)		16			
Space Name or Item Tag		Occupancy Type ⁴		Conditioned Floor Area (ft ²)		# of Shower heads/ toilets		# of people ⁵		Required Min OA CFM		Required Min CFM		Provided per Design CFM			
														DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁶			
Classroom D4		Lecture/ postsecondary classroom		960						364.8		0		0			
														DCV		Provided per §120.1(e)(4)	
														Occ Sensor		NA. Not required space type	
17		Total System Required Min OA CFM						365		18		Ventilation for this System Complies?				Yes	
04				05		06				07							
System Name		HP-1 / D-5		System Design OA CFM Airflow ¹		365		System Design Transfer Air CFM		0		Air Filtration per §120.1(c) and §141.0(b)(2) ² Provided per §120.1(c) (NR and Hotel/Motel)					
08		09		10		11		12		13		14		15			
		Mechanical Ventilation Required per §120.1(c)(3) ³										Exh. Vent per §120.1(c)(4)		16			
Space Name or Item Tag		Occupancy Type ⁴		Conditioned Floor Area (ft ²)		# of Shower heads/ toilets		# of people ⁵		Required Min OA CFM		Required Min CFM		Provided per Design CFM			
														DCV or Sensor Controls per §120.1(d)(3), §120.1(d)(5), and §120.1(e)(3) ⁶			
Classroom D5		Lecture/ postsecondary classroom		960						364.8		0		0			
														DCV		Provided per §120.1(e)(4)	
														Occ Sensor		NA. Not required space type	
17		Total System Required Min OA CFM						365		18		Ventilation for this System Complies?				Yes	

PTN : 63321- FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM



CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

BUILDING 'D'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.
1317
DRAWN:
B.S.
CHECKED:
M.B.
DATE:
8/5/21

M
7.5

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L. VENTILATION AND INDOOR AIR QUALITY
² Air filtration requirements apply to the following three system types per §120.1(c)(18): space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
⁴ See Standards Tables 120.1.4 and 120.1.8.
⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
⁶ §120.2(c)(3) requires systems serving rooms that are required by §130.1(c), to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS
This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK AND PIPING)
This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(II) for duct leakage testing.

Duct Leakage Sealing
The answers to the questions below apply to the following duct systems: HP-1 / D-1 Duct leakage testing triggered for these systems? No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: ☐ Outdoors ☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(18) or if the roof has fixed vents or openings to the outside/ unconditioned spaces ☐ In an unconditioned crawl space

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L. DISTRIBUTION (DUCTWORK AND PIPING)

	☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code

M. COOLING TOWERS
This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019Standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Field Inspector	
	Pass	Fail
NRCA-MCH-01-E - Must be submitted for all buildings	☐	☐

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Project Name: Roosevelt Elementary HVAC Upgrades Bld D Report Page: (Page 11 of 16)
Project Address: 2324 Verde Street Date Prepared: 12/9/2022

L. DISTRIBUTION (DUCTWORK AND PIPING)

	☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code

The answers to the questions below apply to the following duct systems: HP-1 / D-2 Duct leakage testing triggered for these systems? No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: ☐ Outdoors ☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(18) or if the roof has fixed vents or openings to the outside/ unconditioned spaces ☐ In an unconditioned crawl space

The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.

The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.

Duct system shall be sealed in accordance with the California Mechanical Code

The answers to the questions below apply to the following duct systems: HP-1 / D-3 Duct leakage testing triggered for these systems? No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: ☐ Outdoors ☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(18) or if the roof has fixed vents or openings to the outside/ unconditioned spaces ☐ In an unconditioned crawl space

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019Standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06;	☐	☐
NRCA-MCH-05-A - Air Economizer Controls	Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06;	☐	☐
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)(3)) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.	Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06;	☐	☐
NRCA-MCH-11-A Automatic Demand Shed Controls	Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06;	☐	☐
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06;	☐	☐

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Mark Baskin Company: Baskin Mechanical Engineers Address: 175 Fulton St. City/State/Zip: Fresno CA 93721	Documentation Author Signature: Mark Baskin, P.E. Signature Date: 2022-12-09 CEA/HERS Certification Identification (if applicable): M26578 Phone: (559)2370376
--	---

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner or occupancy.

Responsible Designer Name: Mark Baskin, P.E. Company: Baskin Mechanical Engineers Address: 175 Fulton City/State/Zip: Fresno CA 93721	Responsible Designer Signature: Mark Baskin, P.E. Signature Date: 2022-12-09 CEA/HERS Certification Identification (if applicable): M26578 Phone: (559) 237-0376
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L. DISTRIBUTION (DUCTWORK AND PIPING)

	☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code

The answers to the questions below apply to the following duct systems: HP-1 / D-4 Duct leakage testing triggered for these systems? No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: ☐ Outdoors ☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(18) or if the roof has fixed vents or openings to the outside/ unconditioned spaces ☐ In an unconditioned crawl space

The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.

The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.

Duct system shall be sealed in accordance with the California Mechanical Code

The answers to the questions below apply to the following duct systems: HP-1 / D-5 Duct leakage testing triggered for these systems? No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: ☐ Outdoors ☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(18) or if the roof has fixed vents or openings to the outside/ unconditioned spaces ☐ In an unconditioned crawl space

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019Standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

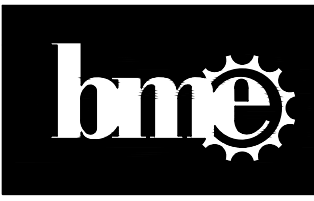
Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06;	☐	☐
NRCA-MCH-18-A Energy Management Control Systems	Carrier 50GCGM06; Carrier 50GCGM06; Carrier 48GCGM06; Carrier 48GCGM06; Carrier 48GCGM06;	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no NRCC forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

	01
Compliance with Mandatory Measures documented through MCH	02
Mandatory Measures Note Block	Yes
	M-Sheets

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BASKIN
MECHANICAL
ENGINEERS

175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21146
Pit: 12-13-22



STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2) for alterations.
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A. GENERAL INFORMATION			
01 Project Location (city)	Bakersfield	04 Total Conditioned Floor Area	2696
02 Climate Zone	13	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:	06 # of Stories (Habitable Above Grade)		
☒ Office (B)	☐ Retail (M)	☐ Non-refrigerated Warehouse (S)	1
☐ Hotel/ Motel Guest Rooms (R-1)	☐ School (E)	☐ Healthcare Facility (I)	
☐ High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☒ Other (write in)	See Table J

B. PROJECT SCOPE
This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2) for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☒ Heating Air System	☐ Water Economizer	☒ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
☐ Mechanical Controls	☐ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)								
Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))								
01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1 / E-1	>=65,000 and <135,000		COP	3.3	3.6	EER	12.2	11.2
HP-2 / E-2	>=65,000 and <135,000		COP	3.3	3.6	EER	12.2	11.2

G. PUMPS
This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS								
This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e), and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.								
System Name:	HP-1 / E-1	Economizer: ¹	Fixed Temperature	Economizer Controls:	Designed per §140.4(a) and (m)	System Fan Type:	Variable Air Volume	
01	02	03	04	05	06	07	08	09
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Design Airflow through Device (CFM)	
SF	Supply	1	2100	BHP	0.83		Maximum System Fan Power (BHP):	
Total System Design Supply Airflow (CFM):			2100	Total System Design (BHP):		0.83		

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J. VENTILATION AND INDOOR AIR QUALITY								
The answers to the questions below apply to the following duct systems: HP-1 / E-1 Duct leakage testing triggered for these systems? No								
11	No	The scope of the project includes only duct systems serving healthcare facilities						
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.						
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.						
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:						
		Outdoors						
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(18) or if the roof has fixed vents or openings to the outside/ unconditioned spaces						
		☐ In an unconditioned crawl space						
		☐ In other unconditioned spaces						
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.						
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.						
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code.						
The answers to the questions below apply to the following duct systems: HP-2 / E-2 Duct leakage testing triggered for these systems? No								
11	No	The scope of the project includes only duct systems serving healthcare facilities						
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.						
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.						
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:						
		Outdoors						
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(18) or if the roof has fixed vents or openings to the outside/ unconditioned spaces						
		☐ In an unconditioned crawl space						
		☐ In other unconditioned spaces						
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.						
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.						
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code.						

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system
² Air filtration requirements apply to the following three system types per §120.1(c)(1): space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space
³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
⁴ See Standards Tables 120.1-A and 120.1-B
⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
⁶ §120.2(a)(3) requires systems serving rooms that are required by §130.1(a) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS
This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)
This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(f) for duct leakage testing.

Duct Leakage Sealing

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C. COMPLIANCE RESULTS											
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.											
01	02	03	04	05	06	07	08	09			
System Summary §102.1, §110.2, §140.4	Pumps §140.4(k), §140.4(l)	Fan/ Economizers §140.4(c), §140.4(d)	System Controls §102.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §120.3, §140.4(d)	AND	Distribution §120.3, §140.4(f)	Cooling Towers §110.2(a)(2)	Compliance Results
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)	(See Table N)	(See Table O)		
Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	COMPLIES	
Mandatory Measures Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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H. FAN SYSTEMS & AIR ECONOMIZERS								
System Name:	HP-2 / E-2	Economizer: ¹	Fixed Temperature	Economizer Controls:	Designed per §140.4(a) and (m)	System Fan Type:	Variable Air Volume	
01	02	03	04	05	06	07	08	09
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	Design Airflow through Device (CFM)	
SF	Supply	1	2100	BHP	0.83		Maximum System Fan Power (BHP):	
Total System Design Supply Airflow (CFM):			2100	Total System Design (BHP):		0.83		

¹ FOOTNOTES: Computer room economizers must meet requirements of §140.9(a), and will be documented on the NRCC-PRC-E document.
² The unit used for HP must be consistent for all fans within a system.

I. SYSTEM CONTROLS								
This table is used to demonstrate compliance with mandatory controls in §120.2 and §120.2, and prescriptive controls in §140.4(f), and (n) or requirements in §141.0(b)(2) for altered space conditioning systems.								
01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c) ¹ , §120.2(a)(b), §141.0(b)(2)	Shut Off Controls §120.2(a)	Isolation Zone Controls §120.2(a)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(c)
HP-1 / E-1	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
HP-2 / E-2	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

¹ FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.
² Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX. system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d); EXCEPTION 1 to §140.4(f)

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L. DISTRIBUTION (DUCTWORK and PIPING)								
The answers to the questions below apply to the following duct systems: HP-1 / E-1 Duct leakage testing triggered for these systems? No								
11	No	The scope of the project includes only duct systems serving healthcare facilities						
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.						
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.						
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:						
		Outdoors						
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(18) or if the roof has fixed vents or openings to the outside/ unconditioned spaces						
		☐ In an unconditioned crawl space						
		☐ In other unconditioned spaces						
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.						
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.						
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code.						
The answers to the questions below apply to the following duct systems: HP-2 / E-2 Duct leakage testing triggered for these systems? No								
11	No	The scope of the project includes only duct systems serving healthcare facilities						
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.						
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.						
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:						
		Outdoors						
		☐ In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(18) or if the roof has fixed vents or openings to the outside/ unconditioned spaces						
		☐ In an unconditioned crawl space						
		☐ In other unconditioned spaces						
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.						
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.						
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code.						

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003
Schema Version: rev 20200601

Registration Provider: Energysoft
Report Generated: 2022-12-09 16:07:50

STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E
CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bldg E
Project Address: 2324 Verde Street
Report Page: (Page 3 of 11)
Date Prepared: 12/9/2022

CALIFORNIA ENERGY COMMISSION
NRC-MCH-E
Project Name: Roosevelt Elementary HVAC Upgrades Bldg E
Project Address: 2324 Verde Street
Report Page: (Page 4 of 11)
Date Prepared: 12/9/2022

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)										
This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1, and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b), and §140.4(f), or §141.0(b)(2) for alterations.										
Dry System Equipment Schedule (includes air conditioners, condensers, heat pumps, VRF, furnace and unit heaters)										
01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available ¹ §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design ² (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-1 / E-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	75.87	63.55	36.18	66.92	55.3	76.17	80.52
HP-2 / E-2	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	75.87	63.55	36.18	67.31	55.3	86.81	89.88

¹ FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are exempted.
² It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003
Schema Version: rev 20200601

Registration Provider: Energysoft
Report Generated: 2022-12-09 16:07:50

STATE OF CALIFORNIA
Mechanical Systems
NRC-MCH-E
CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bldg E
Project Address: 2324 Verde Street
Report Page: (Page 6 of 11)
Date Prepared: 12/9/2022

CALIFORNIA ENERGY COMMISSION
NRC-MCH-E
Project Name: Roosevelt Elementary HVAC Upgrades Bldg E
Project Address: 2324 Verde Street
Report Page: (Page 8

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bld E
Project Address: 2324 Verde Street
Report Page: (Page 10 of 11)
Date Prepared: 12/5/2022

NRCC-MCH-E

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		
02		
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	M-Sheets

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003
Schema Version: rev 20200601

Registration Provider: Energysoft
Report Generated: 2022-12-09 16:07:50

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Roosevelt Elementary HVAC Upgrades Bld E
Project Address: 2324 Verde Street
Report Page: (Page 11 of 11)
Date Prepared: 12/5/2022

NRCC-MCH-E

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Mark Baskin	Documentation Author Signature: Mark Baskin, P.E. 2022-12-09 16:08:52-0800
Company: Baskin Mechanical Engineers	Signature Date: 2022-12-09
Address: 175 Fulton St. M26578 Fresno CA 93721	CAIA / HERS Certification Identification (if applicable): Phone: 5592370376

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Mark Baskin, P.E.	Responsible Designer Signature: Mark Baskin, P.E. 2022-12-09 16:17:55-0800
Company: Baskin Mechanical Engineers	Date Signed: 2022-12-09
Address: 175 Fulton City/State/Zip: Fresno CA 93721	License: M26578 Phone: (559) 237-0376

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003
Schema Version: rev 20200601

Registration Provider: Energysoft
Report Generated: 2022-12-09 16:07:50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/05/2023

PTN : 63321-

FILE: 15-6

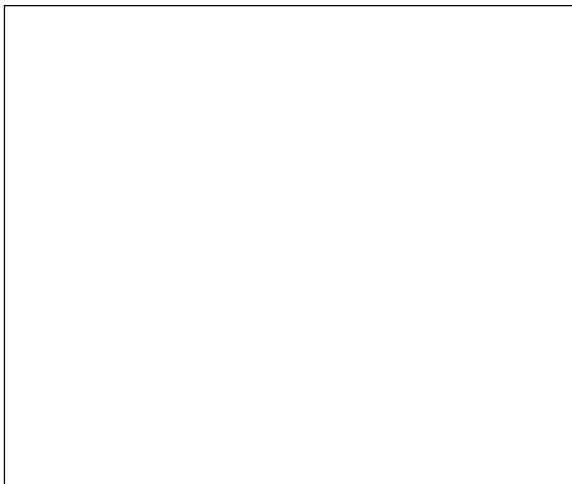
ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
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CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.



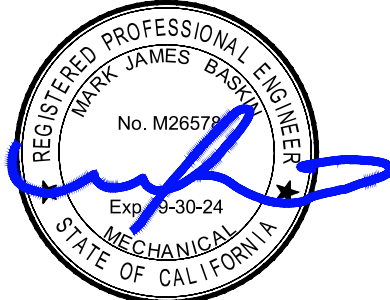
BUILDING 'E'
TITLE-24

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.
1317
DRAWN:
B.S.
CHECKED:
M.B.
DATE:
8/5/21

M

7.7



bme BASKIN MECHANICAL ENGINEERS
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21146
Plt: 12-13-22

PLUMBING LEGEND					
SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	ACC.	ACCESSIBLE		GRD.	GRADE
	A.D.	ACCESS DOOR/WALL BOX		G.N.	GREASE WASTE
	A.F.F.	ABOVE FINISHED FLOOR		H.B.	HOSE BIBB
	C.D.	CONDENSATE DRAIN		HV(A-C)	AIR CONDITIONING EQPT.
	C.I.	CAST IRON		L.	LAVATORY
	C.L.G.	CEILING		LOC.	LOCATION
	C.O.	CLEANOUT		(N)	NEW
	COMB.	COMBUSTION		N.I.C.	NOT IN CONTRACT
	CONN.	CONNECTION		P.O.C.	POINT OF CONNECTION
	CONT.	CONTINUATION		PROV.	PROVIDE
	COTG.	CLEANOUT TO GRADE		P.R.V.	PRESSURE REDUCING VALVE
	(D)G.N.	(DOMESTIC) COLD WATER		R.D.	ROOF DRAIN
	D.H.	DECK HATCH		R.W.L.	RAINWATER LEADER
	(D)H.W.	(DOMESTIC) HOT WATER		S.	SINK
	(D)HWR.	(DOMESTIC) HOT WATER RETURN		S.&W.	SOIL AND WASTE
	DN.	DOWN		SIM.	SIMILAR
	DRN.	DRAIN		S.O.V.	SHUT OFF VALVE
	(E)	EXISTING		SS	STAINLESS STEEL
	(E)G.W.	EXISTING COLD WATER		S.S.	SERVICE SINK
	(E)H.W.	EXISTING HOT WATER		SURF.	SURFACE
	(E)HWR.	EXISTING HOT WATER RETURN		T.4 P.	TEMPERATURE AND PRESSURE RELIEF
	(E)G.D.	EXISTING CONDENSATE DRAIN		T.P.	TRAP PRIMER
	(E)D.F.	ELECTRIC DRINKING FOUNTAIN		(TYP)	TYPICAL
	E.W.H.	ELECTRIC WATER HEATER		UR.	URINAL
	F.C.O.	FLOOR CLEANOUT		V.O.	VENT OFFSET
	F.D.	FLOOR DRAIN		V.T.R.	VENT THRU ROOF
	FLR.	FLOOR		(E) W.	EXISTING WASTE
	F.S.	FLOOR SINK		W.	WASTE
	G.	GAS		W.C.	WATER CLOSET
	(E) G.	EXISTING GAS		W.H.	WATER HEATER
	G.D.	GARBAGE DISPOSAL		W.G.O.	WALL CLEANOUT

Equipment Anchorage Notes:

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.

- All permanent equipment and components.
- Temporary, movable or mobile equipment that is permanently attached (i.e. 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.
- Temporary, moveable or mobile equipment which is heavier than 400 pounds or has a center mass located 4 feet or more above the adjacent floor or roof level that directly support the component are required to be restrained in a manner approved by DSA.

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:

- 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.
- 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 structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note:

Piping, ductwork, and Electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Section 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 pre-approved 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 loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP ☐ MD ☐ **Option 1:** Detailed on the approved drawings with project specific notes and details
PP ☐ E ☐

MP ☐ MD ☐ **Option 2:** Shall comply with the applicable OSHPD Pre-Approval (OPM#)
PP ☒ E ☐ #Tolco/B-line OPM-052.

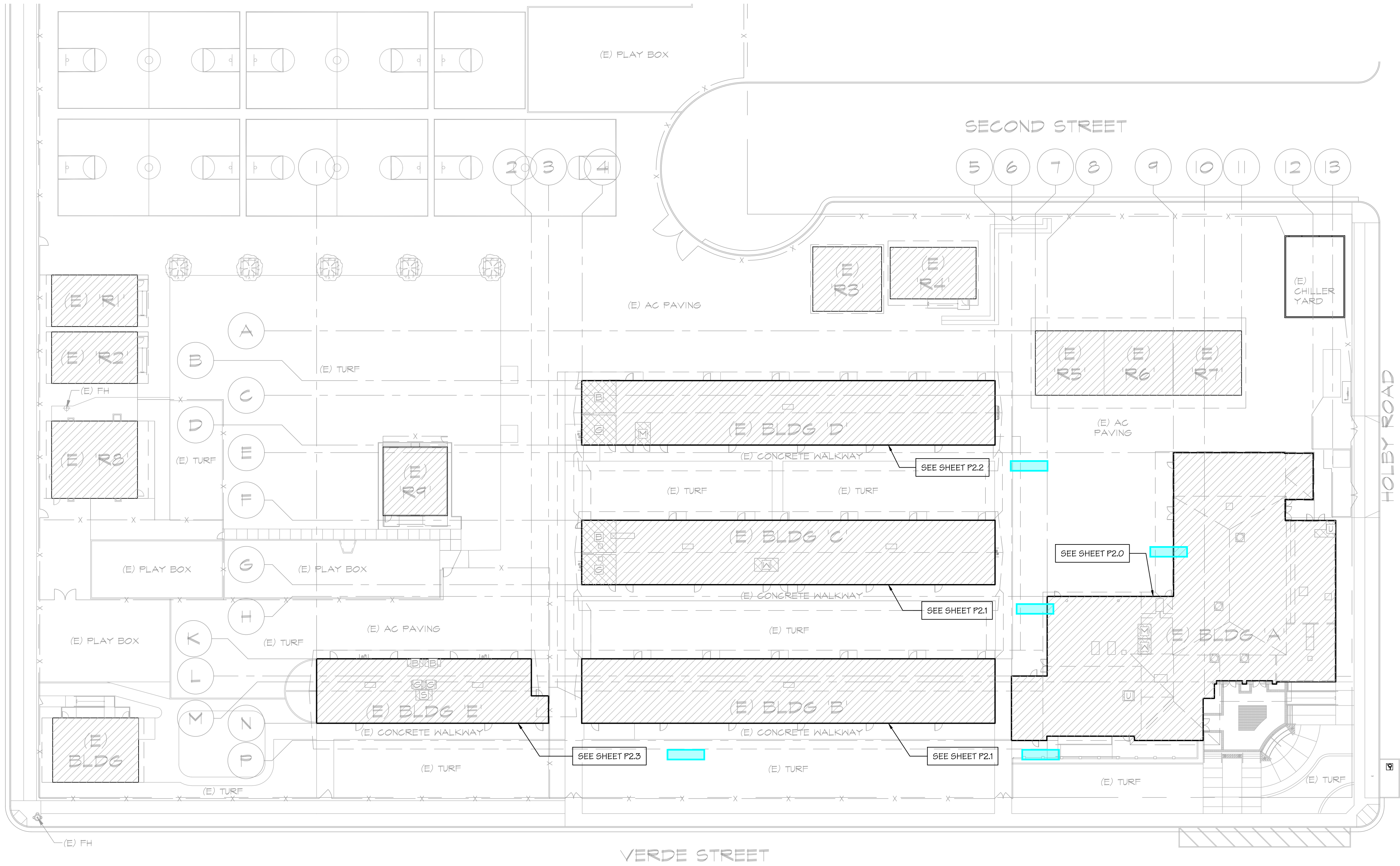
Codes:

California Code of Regulations (C.C.R.)

- Part 1 - 2019 California Standards Administrative Code, Title 24, C.C.R.
- Part 2 - 2019 California Building Code (C.B.C.), Title 24, C.C.R. Volumes 1-2.
- Part 3 - 2019 California Electrical Code, Title 24, C.C.R.
- Part 4 - 2019 California Mechanical Code (C.M.C.), Title 24, C.C.R.
- Part 5 - 2019 California Plumbing Code (C.P.C.), Title 24, C.C.R.
- Part 6 - 2019 California Energy Code, Title 24, C.C.R.
- Part 9 - 2019 California Fire Code, Title 24, C.C.R.
- Part 11- 2019 California Green Building Standards Code, Title-24, C.C.R.

Standards and Guides:

- ADAAG - American with Disabilities Act, Accessibility Guidelines.
- Fixtures - Plumbing fixtures to comply with table 5.303.6 of the California Green Building Standards - 2019 Edition.



PLUMBING SITE PLAN

SCALE: 1"=30'-0"

Plumbing Fixture Schedule:

WC-1

Floor mounted accessible 16.5" high flush-valve elongated water closet, "American Standard" # 3461.001, 1.28 gallons / flush, "Zurn" # ZER6000AV-HET-CCP battery powered 1.28 GPF sensor flush-valve, heavy duty plastic elongated open - front seat, bolt caps, 3" S.&W., 2" V.O., 1-1/4" C.W. (reduce to 1" @ flush-valve)

WC-2

Floor mounted 14" high flush-valve elongated elementary height water closet, "American Standard" # 2599.001 1.28 gallons / flush, "Zurn" # ZER6000AV-HET-CCP battery powered 1.28 GPF sensor flush-valve, heavy duty plastic elongated open - front seat, bolt caps, 3" S.&W., 2" V.O., 1-1/4" C.W. (reduce to 1" @ flush-valve), see plan for trap primer accessory.

WC-3

Floor mounted 10" high Kindergarten flush-valve water closet, "American Standard" #2282.010 Baby DeVoro, "Zurn" # ZER6000AV-HET-CCP battery powered 1.28 GPF sensor flush-valve,"Olsonite" # 126CC open-front white seat, bolt caps, 1-1/4" C.W., (reduce to 1" @ flush-valve), 3" S.&W., 2" V.O.

UR

Wall mt'd. accessible urinal, "Kohler" # K-4991-ET-0 Bardon,"Zurn" # ZER6003AV-ULF-CP battery powered (pint) sensor flush-valve, wall hanger, (mount hanger per detail on plans) see manufacturers installation instructions for mounting heights, 3/4" C.W., 2" W., 2" W.C.O., 1-1/2" V.O.

L-1

Wall hung vitreous china accessible lavatory, "Kohler" # K-2007 (21" x 18") Kingston, offset grid drain, "Zurn" #Z6950-XL-S sensor faucet (0.5 GPM), (2) threaded angle wall stops with braided S.S. supplies, 17 ga. C.P. trap/offset tailpiece, 1/2" C.W., 2" W., 2" W.C.O., 1-1/2" V., provide "Zurn" #Z1251 Concealed arm system wall support.

L-2

Wall hung vitreous china accessible lavatory, "Kohler" # K-2007 (21" x 18") Kingston, offset grid drain, "Zurn" #Z6950-XL-MS-Sf sensor faucet (0.5 GPM), (2) threaded angle wall stops with braided S.S. supplies, 17 ga. C.P. trap/offset tailpiece, (wrap H.W. and trap/tailpiece with "Pro Flo" # PF202WH covers), Provide "Leonard" # 170-LF-BP tempering valve set @ 110 degrees F., 1/2" H.W./C.W., 2" W., 2" W.C.O., 1-1/2" V., provide "Zurn" #Z1251 Concealed arm system wall support.

S-1

Counter mounted stainless steel accessible classroom sink (25"x17"x5-1/2") with U-channel type mounting system, "Elkay" #DRKAD251755 with center mounted "Zurn" Z825B1-XL-15F gooseneck faucet and "Haws" # 5054LF bubbler, strainer/ grid drain, (2) threaded angled wall stops with braided stainless steel supplies, supplies from each stop (one to bubbler and faucet), 17 ga. C.P. trap/tailpiece, 1/2" C.W., 2" W., 2" W.C.O., 1-1/2" V.O.

S-2

Counter mounted 18 ga. stainless steel (22"x19-1/2"x5-1/2") accessible single bowl sink with off-center back drain outlet, "Elkay" # LRADQ221955, # LKADQ5 grid drain w/offset tailpiece, "Zurn" # Z871B4XL gooseneck faucet, (2) threaded angled wall stops with braided S.S. supplies, 17 ga. C.P. trap/tailpiece, 1/2" H.W./C.W., 2" W., 1-1/2" V.T.R., 2" W.C.O., (wrap H.W. and trap/tailpiece per specifications), provide "Leonard" #170-LF-BP tempering valve set @ 105 degrees F.

FD

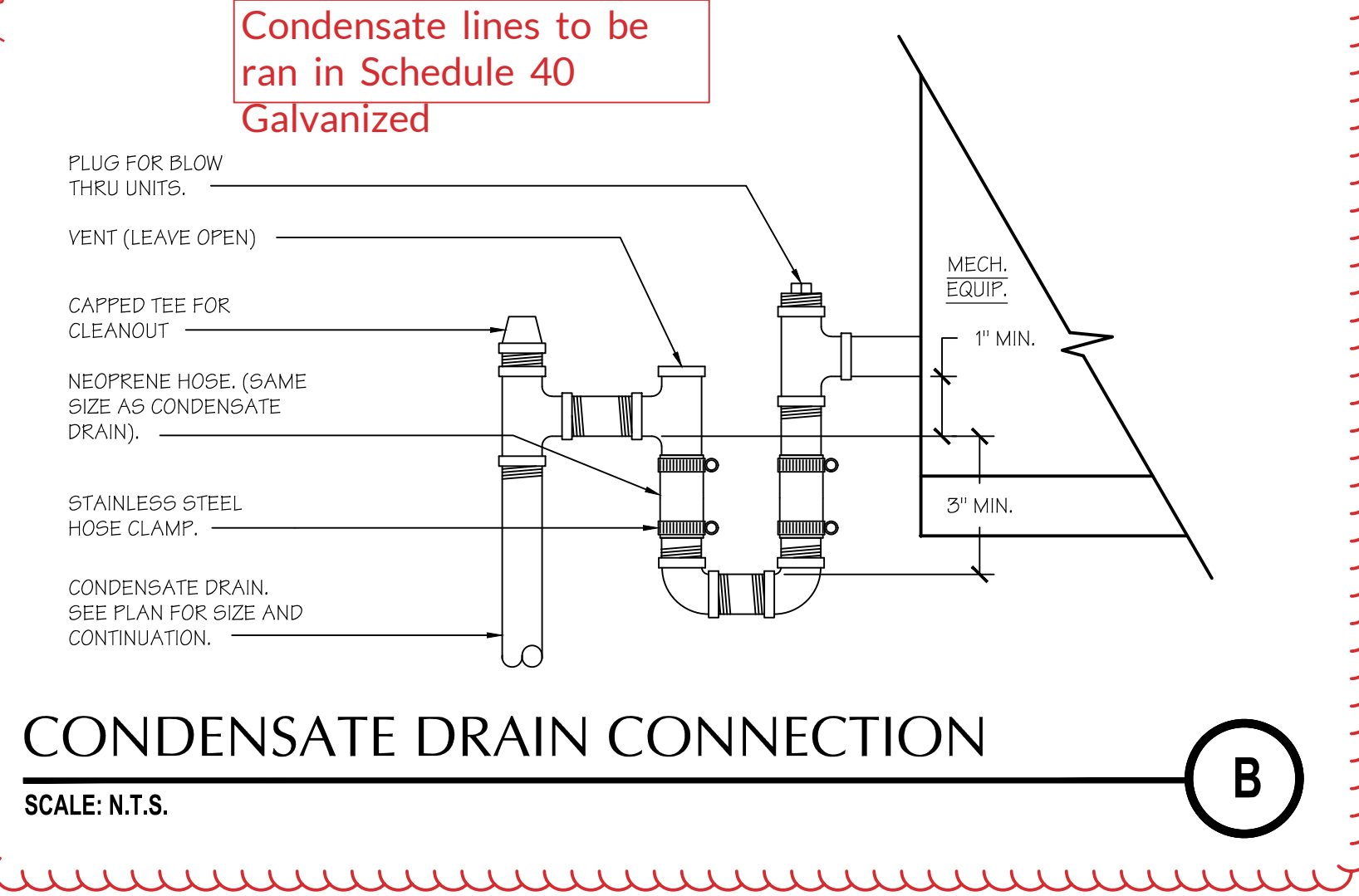
Cast iron floor drain, "J.R. Smith" #2005 with 5" dia. bronze grate or 2005-B with square grate (see plans), 2" trap with primer connection, 2" W., 1-1/2" V.O. (2" V.O. below slab if shown)

DF

"Haws" #11119.14-1920 dual high/low drinking fountain with bottle filler, 14 GA. type 304 SS construction with "Haws" #6700 backing plate and #6800 support carrier. Refer to the architectural drawings for mounting elevations. 1/2" C.W., 2" W., 2" W.C.O., 2" V.O.

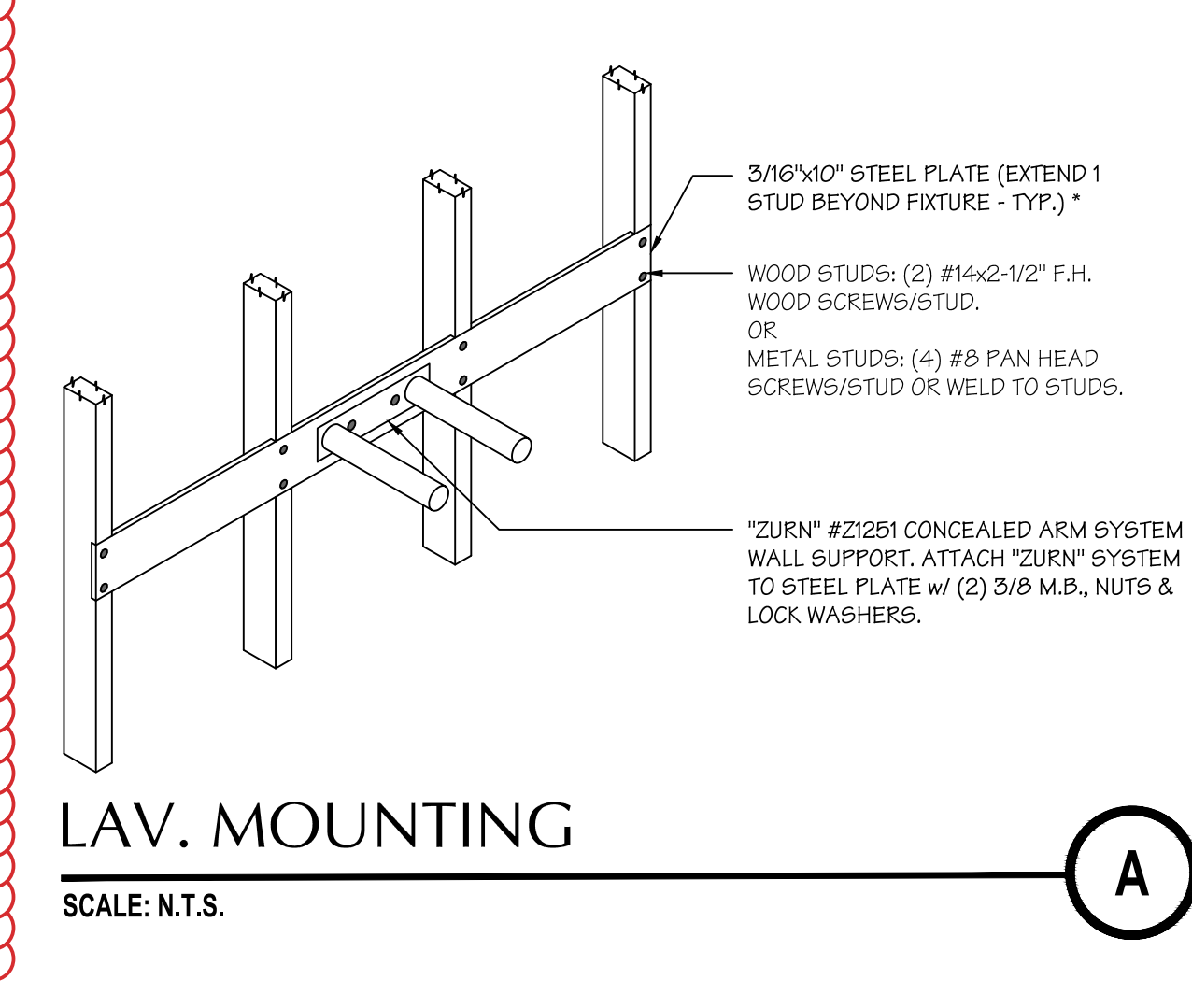
RFI CON-025 | Sheets: P1.0
EXPOSED CONDENSATE PIPING
ON ROOF
PER RFI-025 (05/14/25)

RFI CON-025



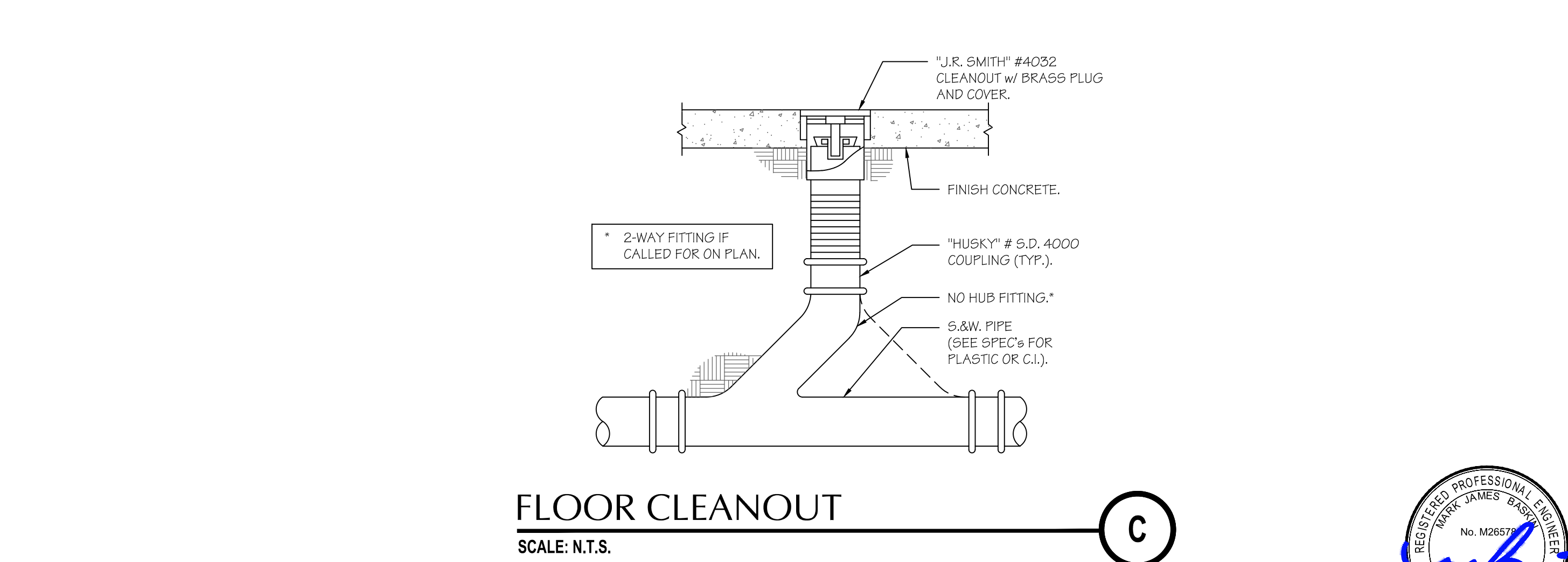
CONDENSATE DRAIN CONNECTION

SCALE: N.T.S.



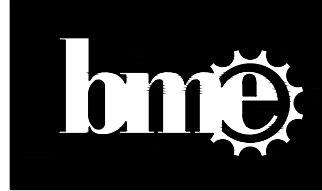
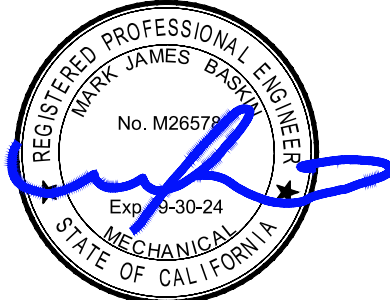
LAV. MOUNTING

SCALE: N.T.S.



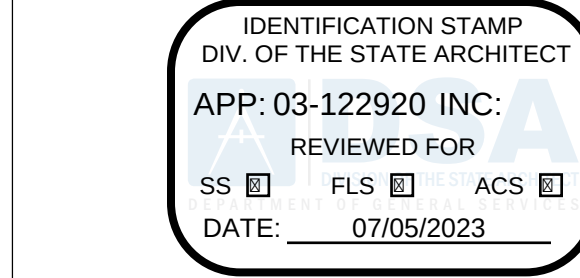
FLOOR CLEANOUT

SCALE: N.T.S.



**BASKIN
MECHANICAL
ENGINEERS**

175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21146
Pjt: 12-13-22



PTN: 63321-

FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL

MODERNIZATION

2324 VERDE STREET

FOR

BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM



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PLUMBING SITE PLAN

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.

1317

DRAWN:

B.S.

CHECKED:

M.B.

DATE:

8/5/21

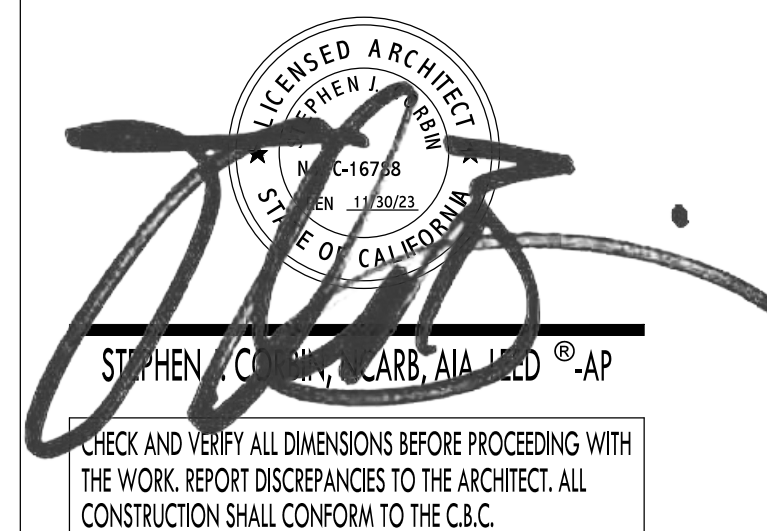
P

1.0

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



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BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
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PLUMBING PLAN
& DEMO PLAN -
BUILDING 'A'

MARK	DATE	REVISIONS
1		
2		
3		

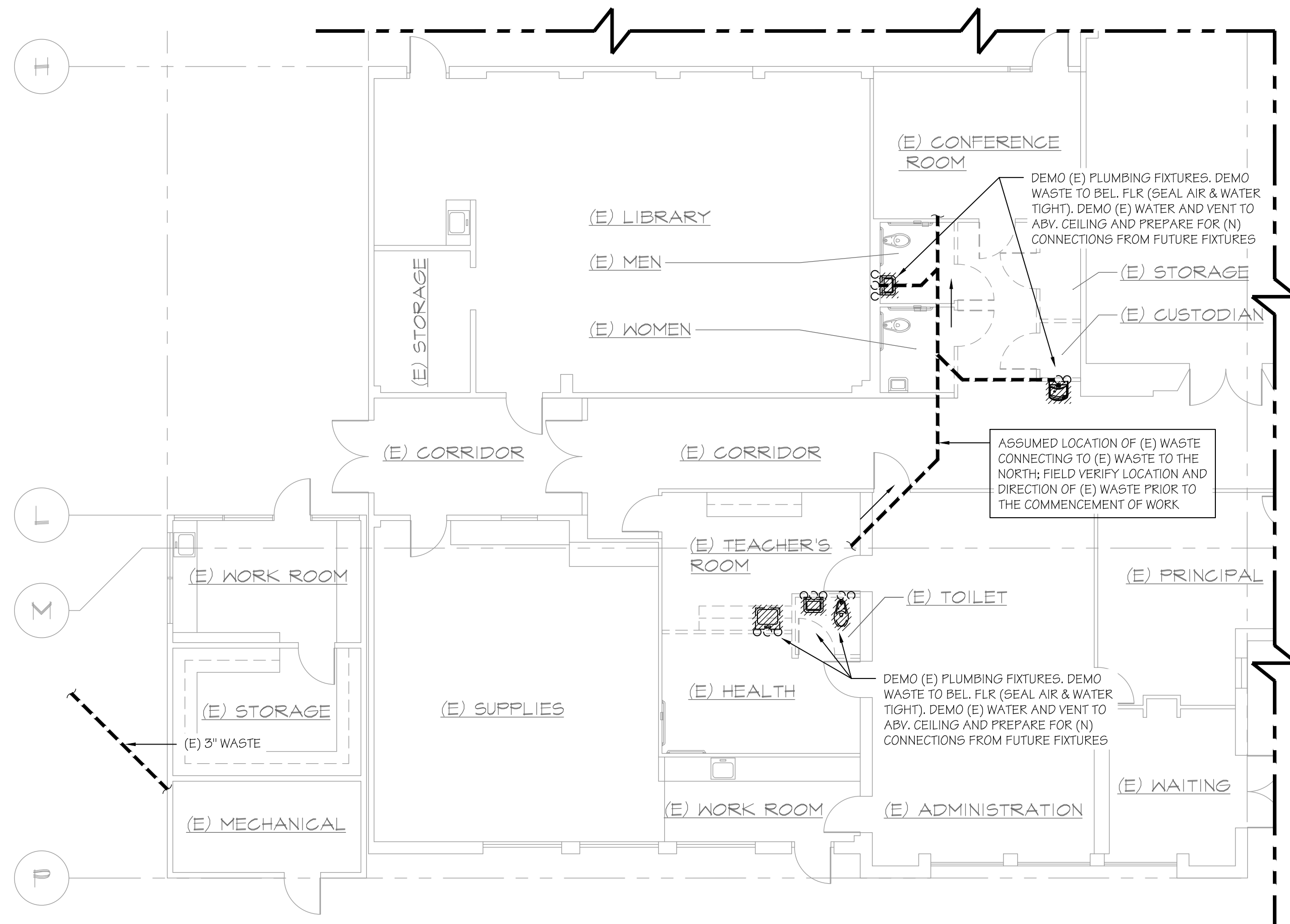
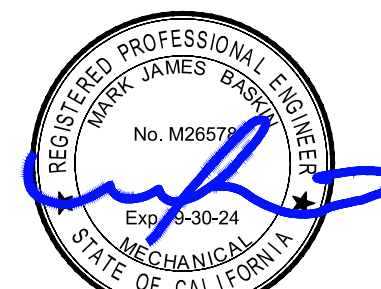
JOB NO.
1317
DRAWN:
B.S.
CHECKED:
M.B.
DATE:
8/5/21

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2.0

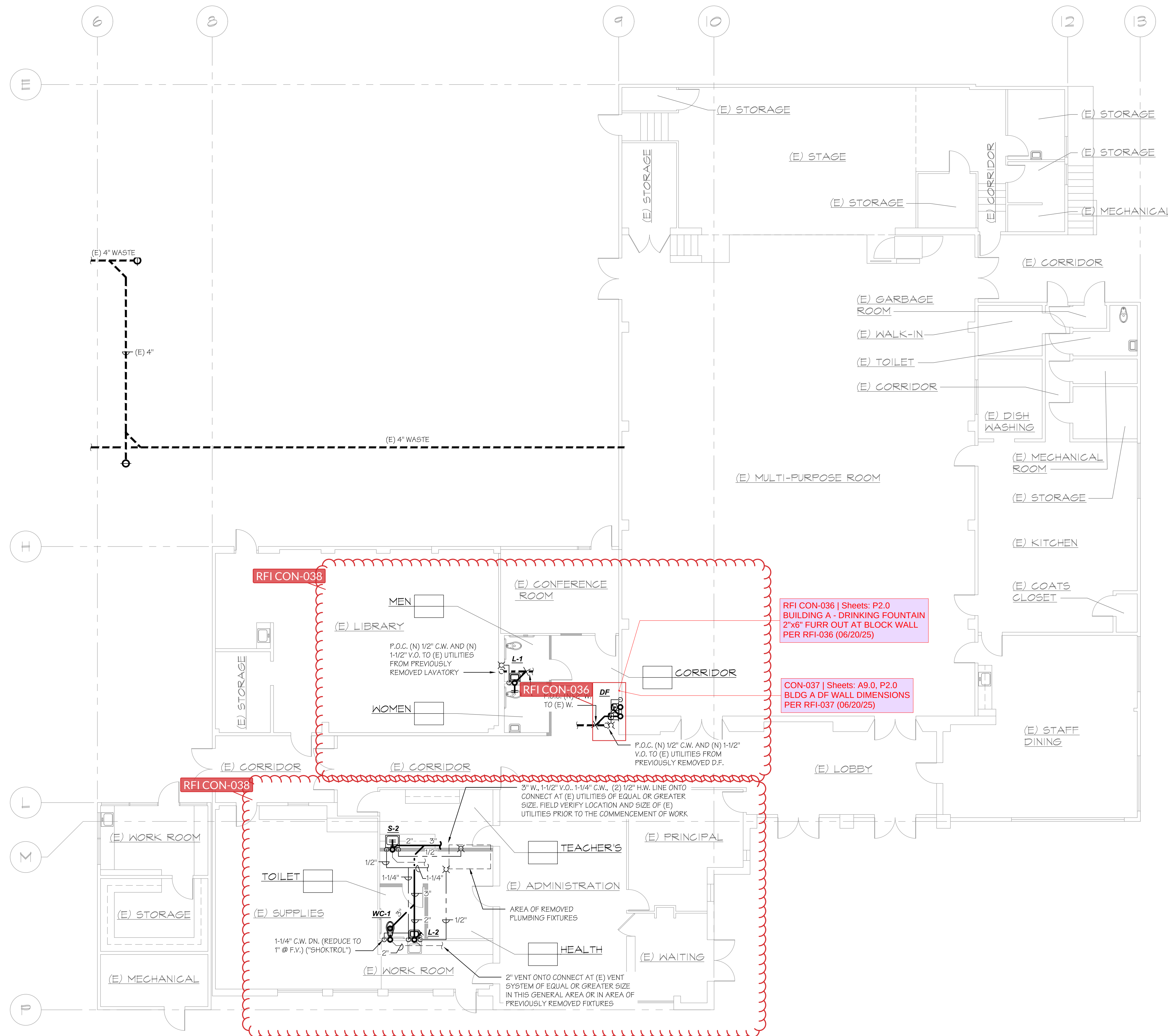


BASKIN
MECHANICAL
ENGINEERS

175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21146
Plt: 12-13-22



PARTIAL PLUMBING DEMO PLAN BUILDING 'A'
SCALE: 1/8"=1'-0"



PLUMBING PLAN BUILDING 'A'
SCALE: 1/8"=1'-0"

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



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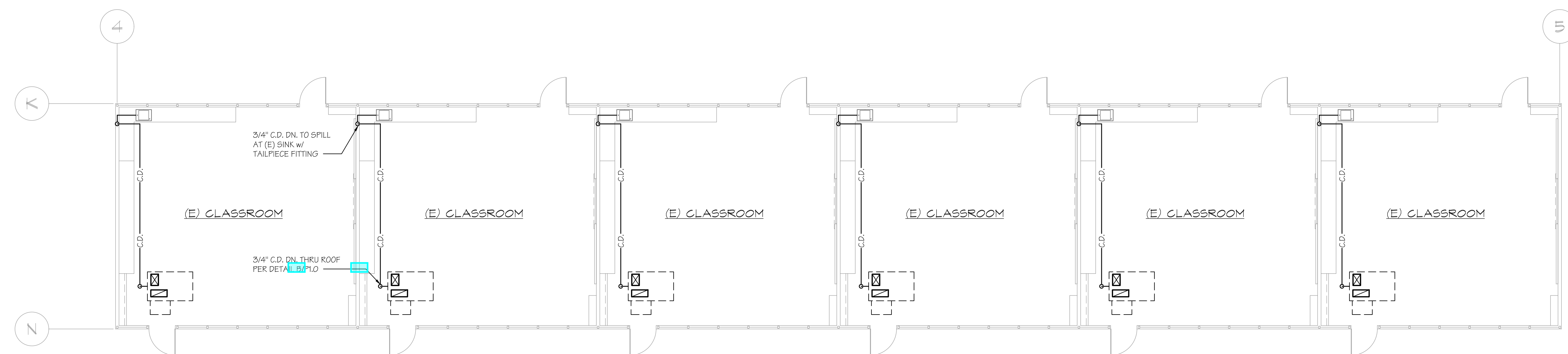
STEPHEN C. CARP, ALLIED[®]-AP
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH
THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL
CONSTRUCTION SHALL CONFORM TO THE C.B.C.

PLUMBING
PLAN BUILDINGS
'B' & 'C'

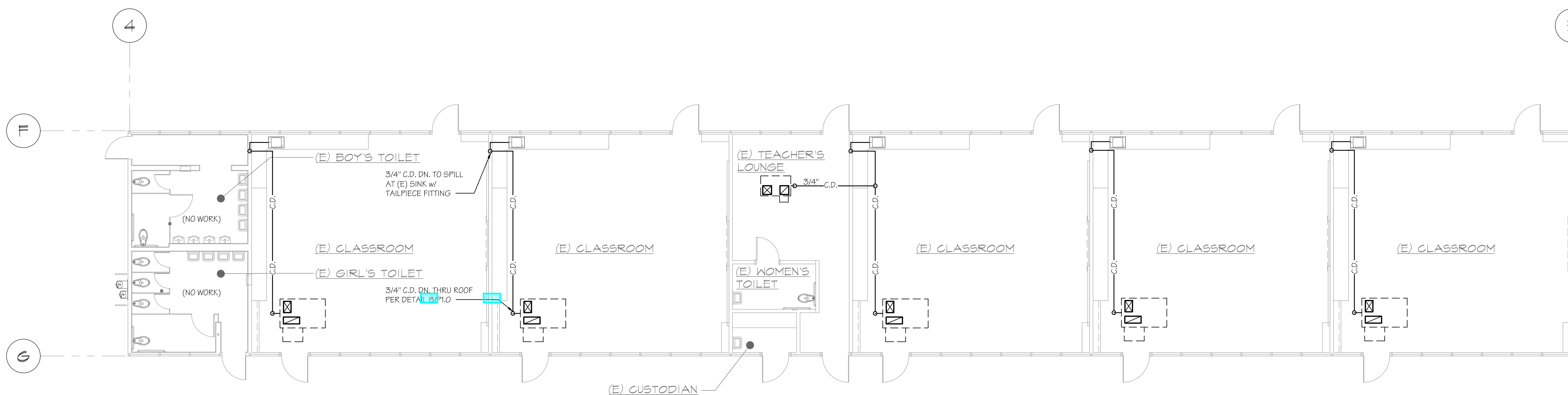
MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.
1317
DRAWN:
B.S.
CHECKED:
M.B.
DATE:
8/5/21

P
2.1



PLUMBING PLAN BUILDING 'B'
SCALE: 1/8"=1'-0"



PLUMBING PLAN BUILDING 'C'
SCALE: 1/8"=1'-0"



BASKIN
MECHANICAL
ENGINEERS

175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21146
Plt: 12-13-22

RFI CON-27 AOR Response - Ceiling is vaulted, therefore ceiling height varies.

Boys Restroom - Place the farthest urinal to the right, at 3' oc from the east wall, place all subsequent urinals at 2'-0" oc. Verify layout with hc required cls in toilet stall and actual fixture widths so that all (4) urinals fit on wall and at least one urinal has the required hc fir clearance. Place the lav at the for south end, 2'-6" off the south wall and all subsequent lavs at 2' oc. Girls Restroom, Place the farthest lav on the right at 18" oc off the east wall and locate all subsequent lavs at 2' oc. These dims are for an approximate guide and can be shifted slightly as required. The floor drains as shown on P2.2 are schedule to be replaced in the new location as shown. The plumbing drawings and the architectural drawings both show these is the new location. Per P2.2 the new location of the FD is tied into the sewer with a 2" line.

RFI CON-010 — Soft Copper for Condensate
ISSUE: Can Type L soft copper be used for condensate drop from wall into casework due to access restraints?
ROOT CAUSE: Limited accessibility in certain locations prevents hard copper installation
RESPONSE: Soft copper is acceptable for drop and transition as needed to install
All other piping including connection at tailpiece to be Type L copper per specs
ACTION: Type L soft copper acceptable for drop/transition only; all other = Type L hard copper (CLOSED 12/03/24)

C.W. Calc's (Velocity):

6 W.C.	@ 5	Fixt. Units = 30
4 U.R.	@ 4	Fixt. Units = 16
9 LAV's	@ 1	Fixt. Units = 9
3 D.F.	@ 0.5	Fixt. Units = 1.5
5 Sink	@ 1.5	Fixt. Units = 7.5
1 F.T. W.C.	@ 2.5	Fixt. Units = 2.5
1 S.S.	@ 3	Fixt. Units = 3
TOTAL		Fixt. Units = 69.5

59 CPM =
2" C.W. @
6 F.P.S. Velocity & 3 P.S.I. friction loss/100'
OR
2-1/2" C.W. @
4.1 F.P.S. Velocity & 1.4 P.S.I. friction loss/100'

RFI CON-030 During demo of Bldg D RR, plumbing contractor found existing conduit in trenches that obstructed their work. Per response from PM "RFI 30 has been resolved by owner BCSD. They will run new conduit overhead and abandon the underground."

CON-028 | Sheets: P2.2
BLDG D SINK CONDENSATE LINE
PER RFI-028 (05/20/25)
There is no sink in the Eastern most classroom. Condensate line was run to the adjacent room.



PLUMBING PLAN BUILDING 'D'

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



PLUMBING DEMO PLAN BUILDING 'D'

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC:
REVIEWED FOR:
SS FLS ACS
DATE: 07/05/2023

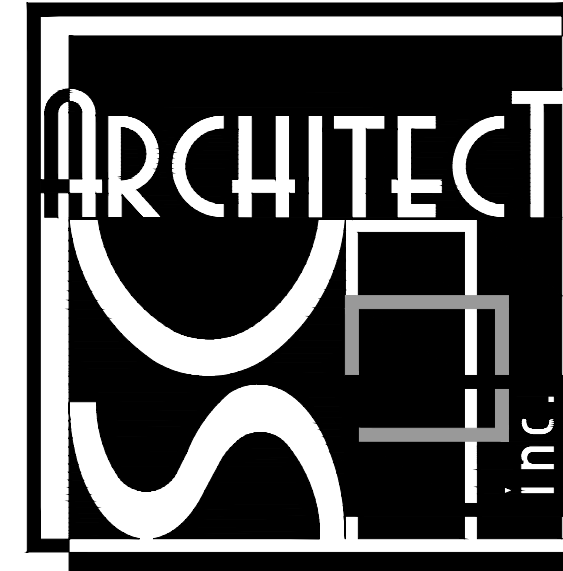
PTN: 63321-

FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL

MODERNIZATION

2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
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CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

PLUMBING PLAN & DEMO PLAN - BUILDING 'D'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.

1317

DRAWN:

B.S.

CHECKED:

M.B.

DATE:

8/5/21

P

2.2

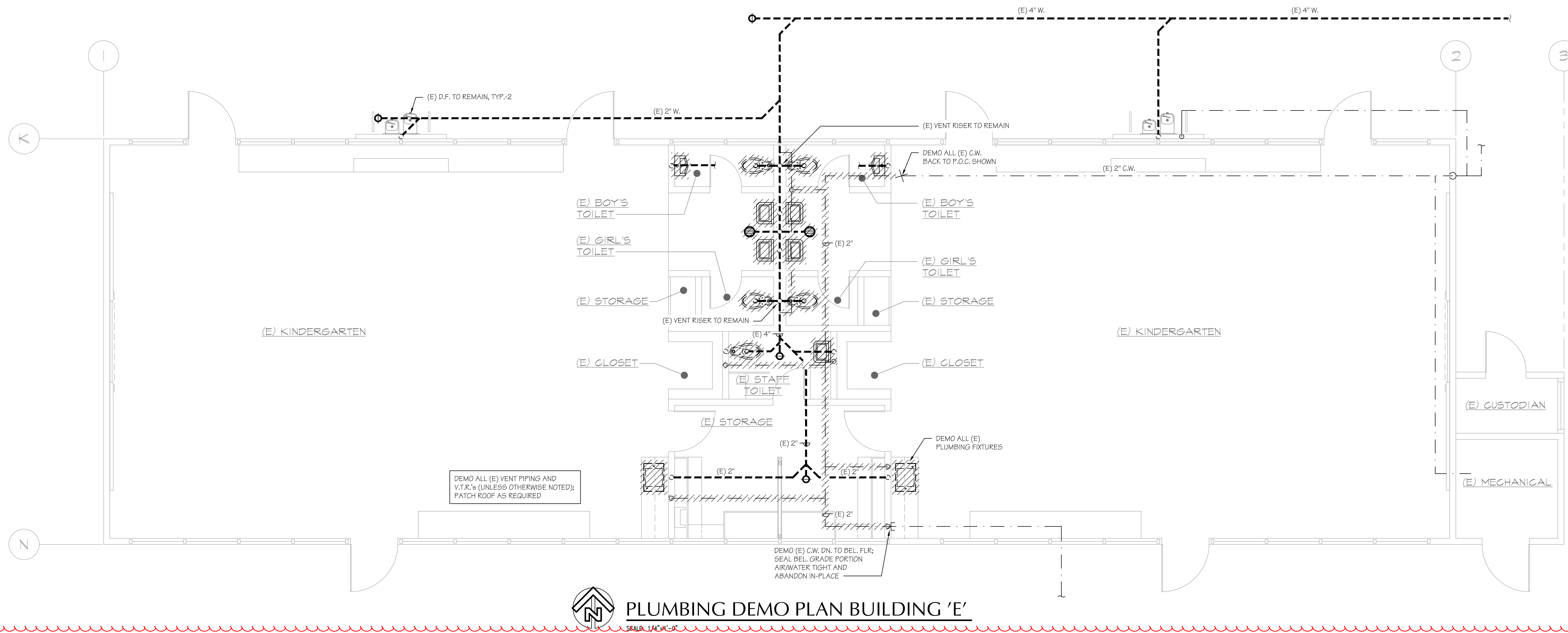
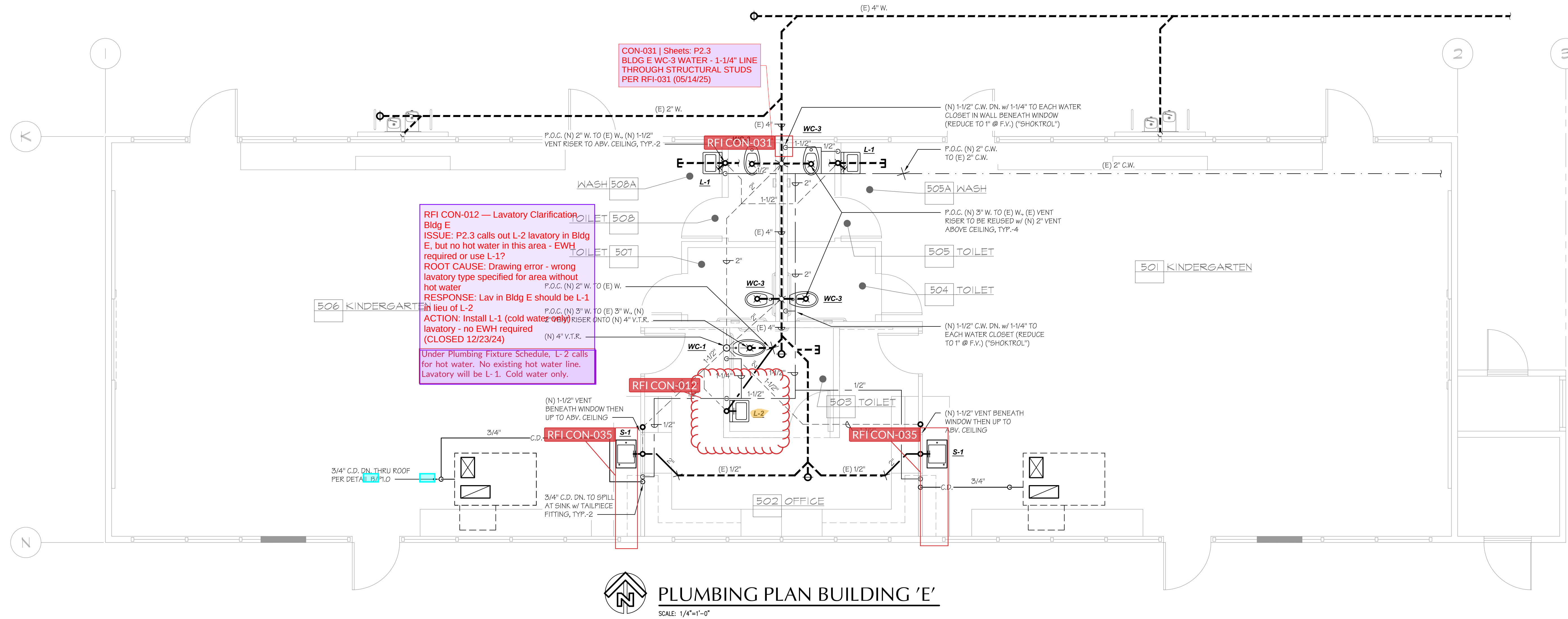


BASKIN
MECHANICAL
ENGINEERS

175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21146
Pjt: 12-13-22

CON-030 | Sheets: P2.3
BLDG D ELECTRICAL CONDUIT
PER RFI-030 (05/13/25)

CON-035 | Sheets: P2.3
CABINETS AT 501 & 506
PER RFI-035 (06/20/25)



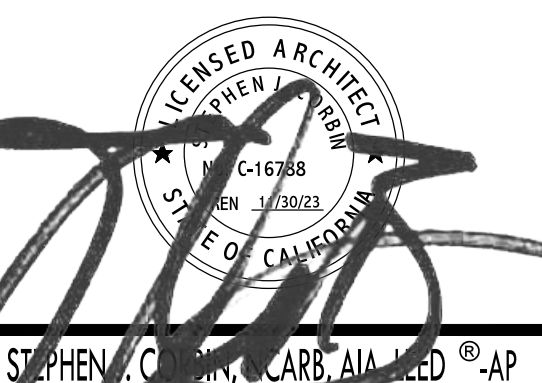
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC:
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TN: 63321- FILE: 15-6

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2324 VERDE STREET
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STEEPLE, CARB, AIA, LEED®-AP

PLUMBING PLAN & DEMO PLAN - BUILDING 'E'

MARK	DATE	REVISIONS
1		
2		
3		

DB NO.
1317

DRAWN :
 B.S.
 CHECKED :
 M.B.

DATE :
8/5/21

P

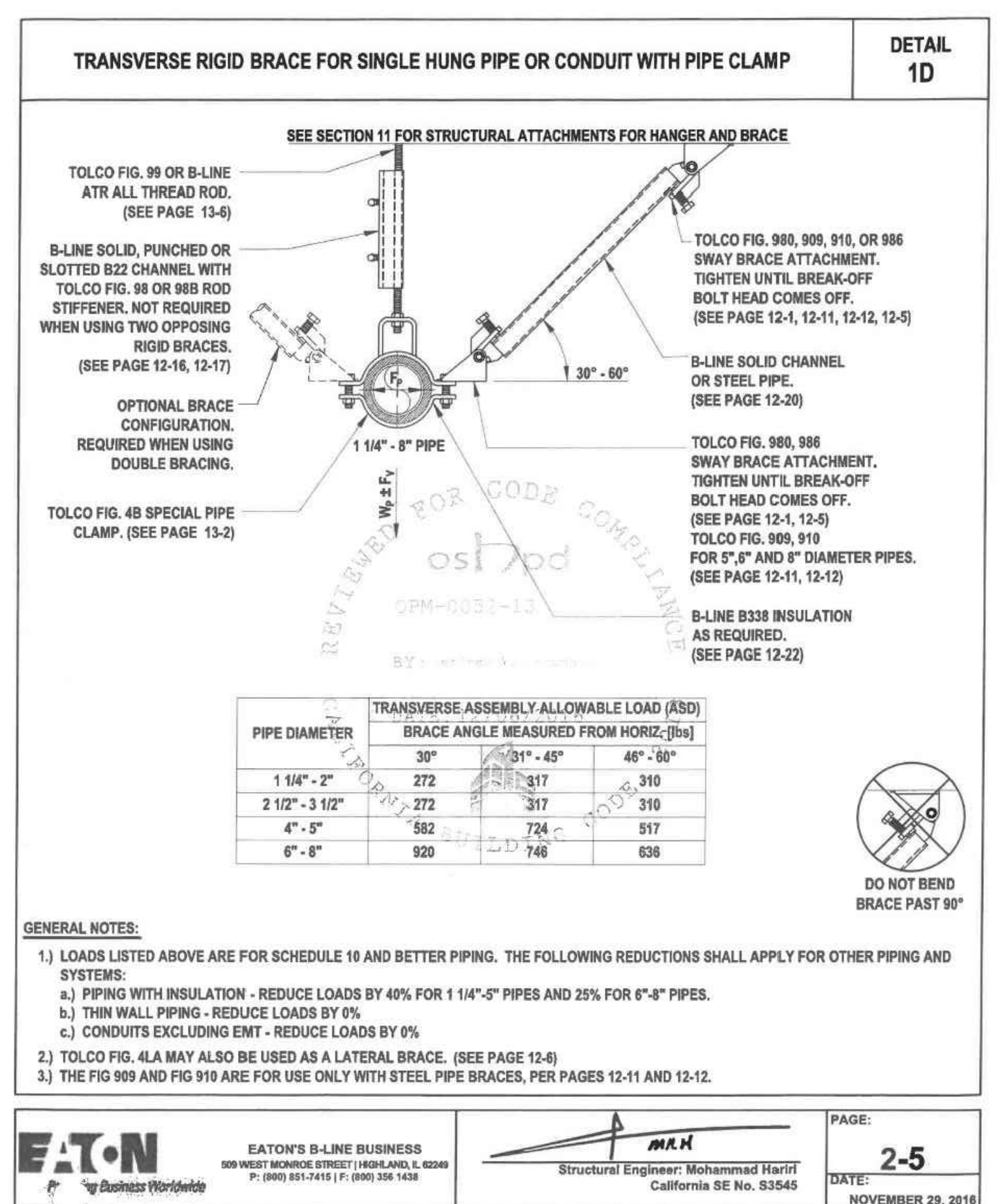
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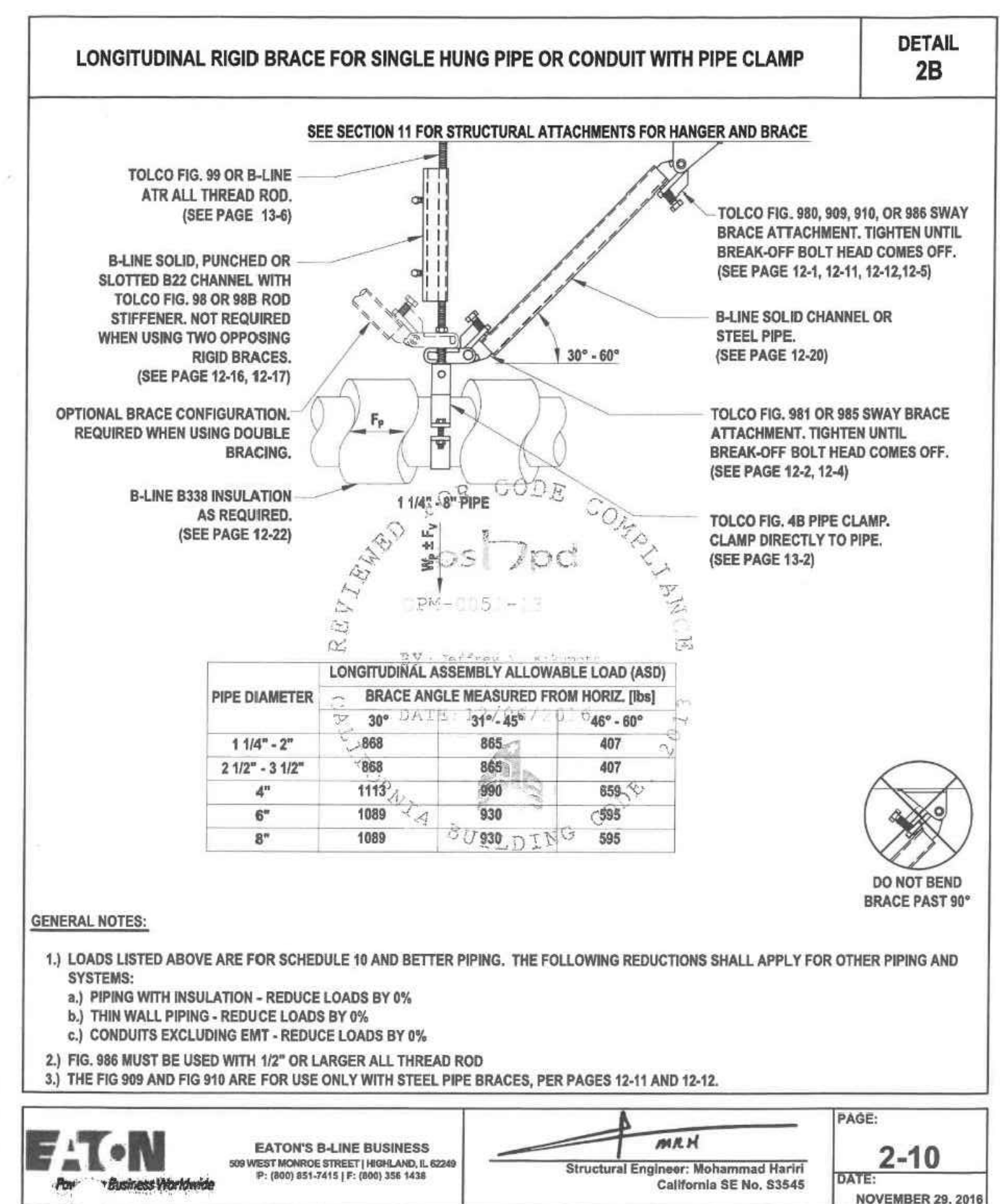
175 Fulton Street
Fresno, CA 93721
Tel: (559) 237-0376
Job: 21146
Plt: 12-13-22



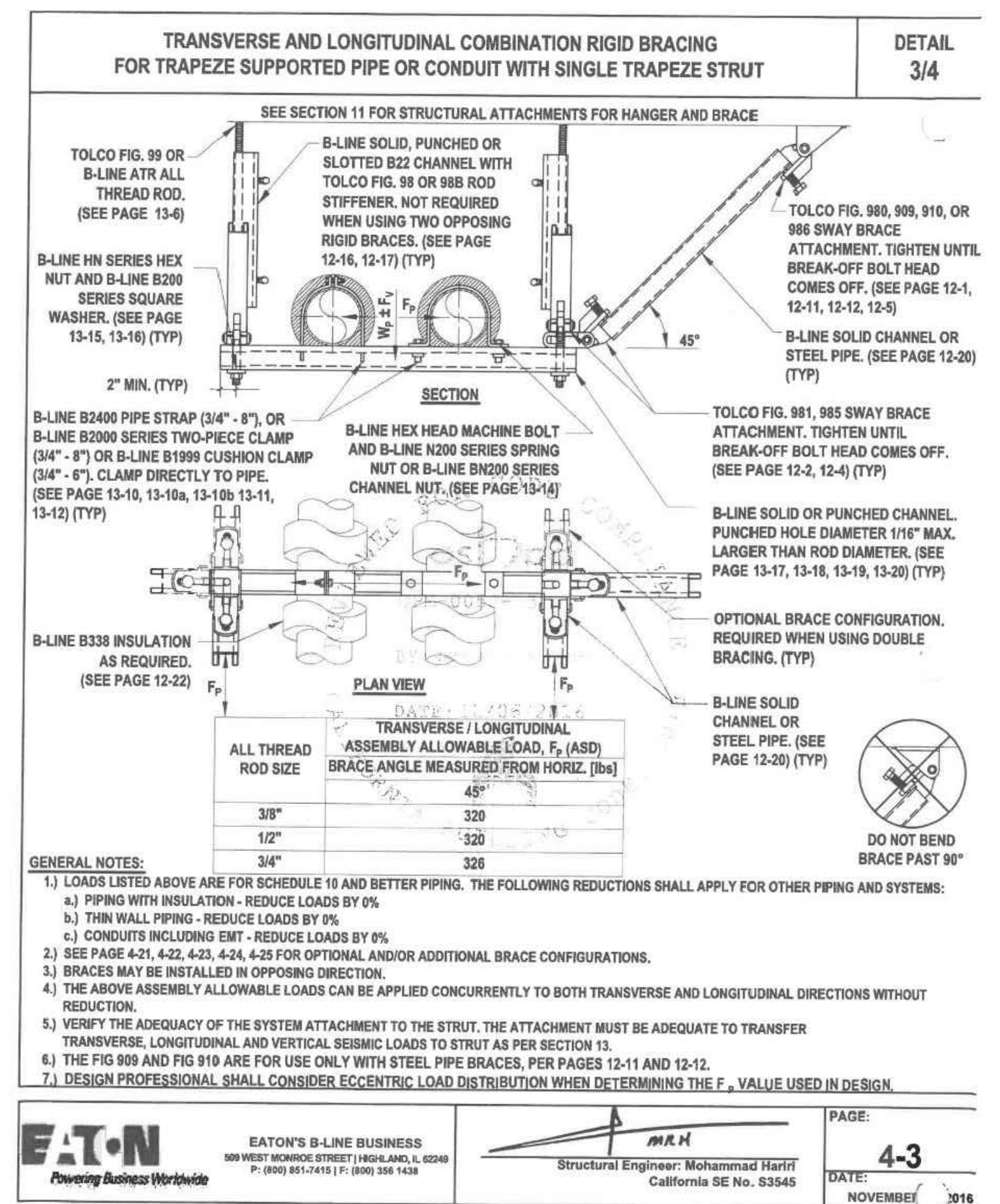
BASKIN
MECHANICAL
ENGINEERS



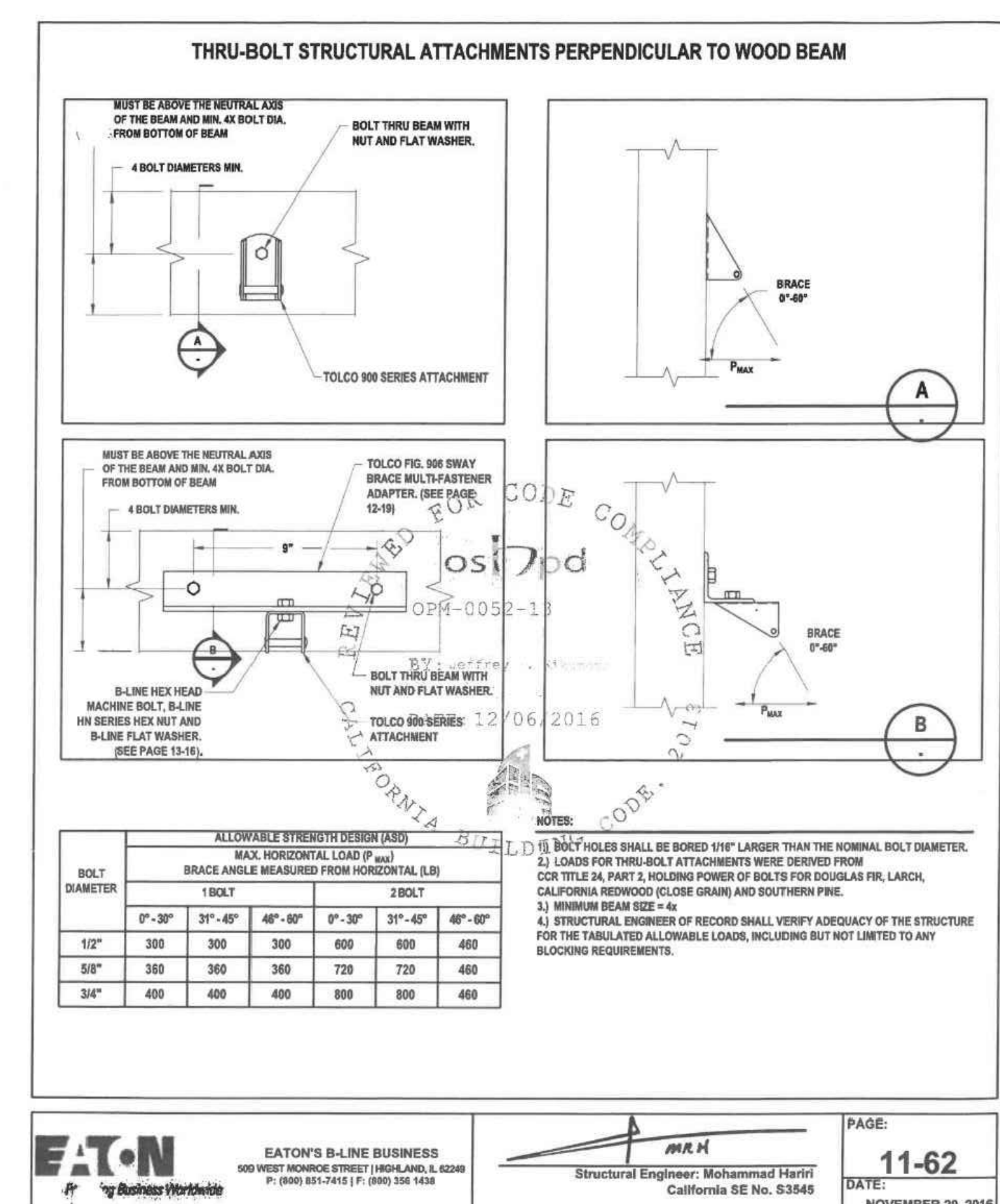
TRANSVERSE RIGID BRACE FOR SINGLE HUNG PIPE WITH PIPE CLAMP
SCALE: NTS



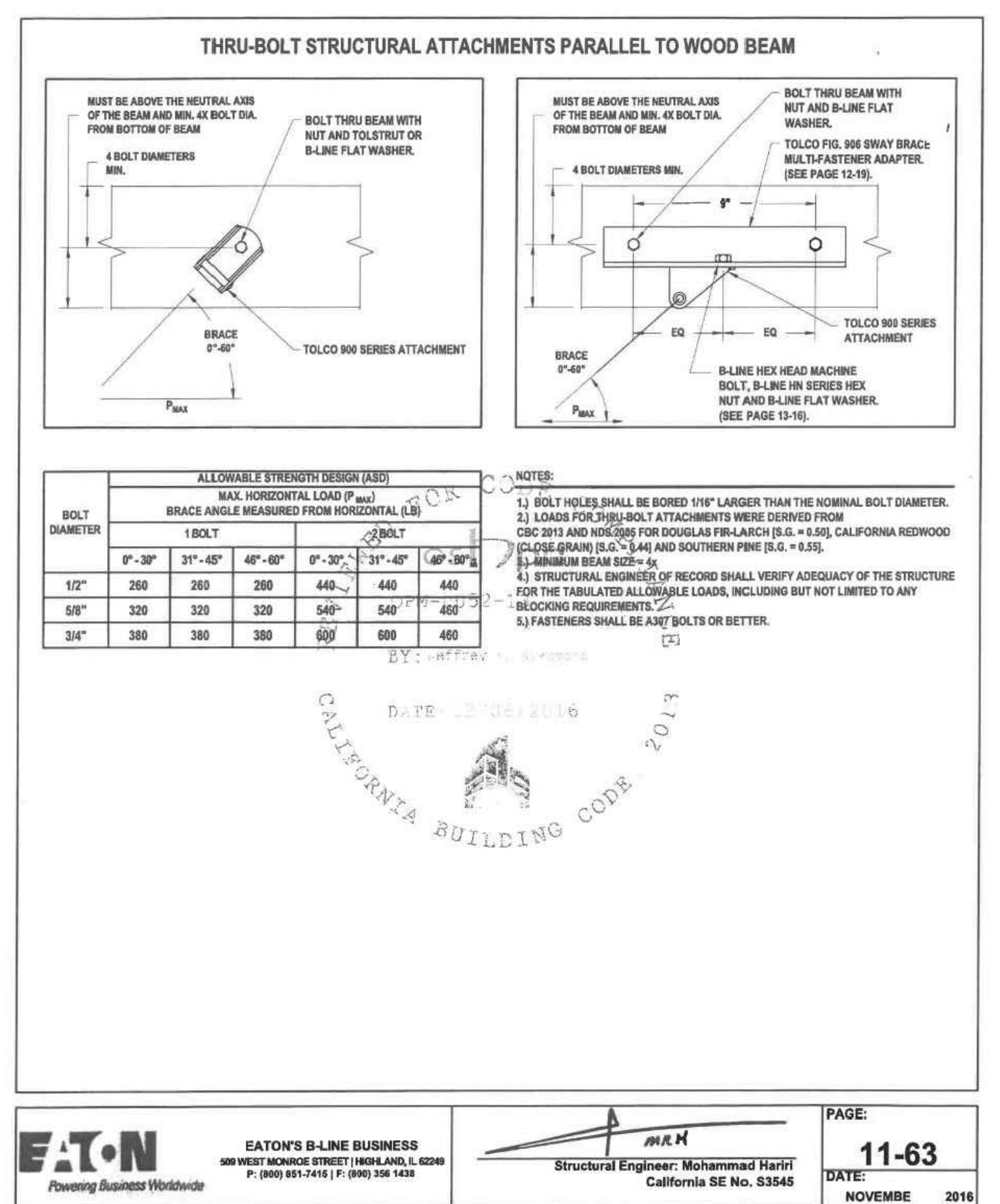
LONGITUDINAL RIGID BRACE FOR SINGLE HUNG PIPE WITH PIPE CLAMP
SCALE: NTS



TRANSVERSE AND LONGITUDINAL COMBINATION RIGID BRACING FOR TRAPEZE SUPPORTED PIPE WITH SINGLE TRAPEZE STRUT
SCALE: NTS



THRU-BOLT STRUCTURAL ATTACHMENTS PERPENDICULAR TO WOOD BEAM
SCALE: NTS



THRU-BOLT STRUCTURAL ATTACHMENTS PARALLEL TO WOOD BEAM
SCALE: NTS

RFI CON-019 — Relocation of MSB and Added PG& E Scope of work.

1a.) The existing sub-feeders at the main switchboard (MSB) location will be spliced and extended to the new location. A new NEMA 3R. pull box will be installed above ground.

1b.) The existing MSB pad will remain, but the gear will be removed.

2.) Splicing to be above ground pull boxes per NEC.

3.) Grounding to be installed per drawing E1.10 per CEC Article 250 and code requirements.

4.) The existing single-line diagram on sheet E1.1 shows all necessary details. No additional SLD will be issued. Proceed with work per contract documents, previous RFI clarifications, and PG&E requirements.

RFI CON-021 — Bldg C HVAC Units
ISSUE: (E) rooftop HVAC units obsolete/non-functional - replace in Phase 2?
ROOT CAUSE: Unclear scope for (E) deteriorated equipment
RESPONSE: (E) gravity vents = no work; (E) furnace = no work
ACTION: No HVAC work on Bldg C roof - (E) vents & furnace remain (CLOSED 03/12/25)

GENERAL ELECTRICAL NOTES

- PROVIDE MINIMUM 36" WORK CLEARANCE IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 3Ø 4W (PER CEC-110.26).
- PROVIDE MINIMUM 42" WORK CLEARANCE IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 480/277V 3Ø 4W (PER CEC-110.26).
- PROVIDE MINIMUM 30" WIDE WORK SPACE FOR PANELS, SERVICE OR EQUIPMENT 15' FROM BUS BAR TO OBSTRUCTION (PER CEC-110.26).
- SPECIFY THAT ONLY LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH INSTRUCTIONS INCLUDED IN THE LISTING AND LABELING (PER CEC-110.3(B)).
- SWITCHES SHALL BE MOUNTED A MAXIMUM OF 48" TO THE TOP OF BOX. RECEPTACLES SHALL BE MOUNTED A MINIMUM OF 15" TO THE BOTTOM OF BOX PER CBC 2019 SECTION 11B-308.
- HVAC CIRCUIT BREAKERS SHALL BE RATED HACR.
- ALL SERVICE EQUIPMENT TO BE SUITABLE FOR AVAILABLE SHORT CIRCUIT CURRENT PER CEC ART 110.9.
- PERMANENTLY DELINEATE ON THE FLOOR WORKING CLEARANCE IN FRONT OF ALL ELECTRICAL EQUIPMENT WITH THE WORDING "NO STORAGE IN THIS AREA"
- PRIOR TO ORDERING THE SWITCHGEAR, THE ELECTRICAL CONTRACTOR SHALL COORDINATE A.I.C. RATINGS OF SWITCHBOARDS AND PANEL BOARDS WITH UTILITY COMPANY REQUIREMENTS. EVIDENCE OF SUCH COORDINATION SHALL BE AVAILABLE ON SITE FOR REVIEW BY CITY BUILDING INSPECTOR.
- SWITCHBOARDS AND PANEL BOARDS THAT ARE LIKELY TO BE ENERGIZED WHILE BEING MAINTAINED OR SERVICED BY QUALIFIED PERSONNEL SHALL BE LABELED WARNING OF POSSIBLE ARC FLASH HAZARDS AND IDENTIFIED WITH THE APPROPRIATE ARC FLASH PROTECTION RATING PERSONAL PROTECTIVE EQUIPMENT (PPE) SIGNAGE (PER CEC ART. 110.16).
- CONTRACTOR IS TO PROVIDE ENGRAVED NAMEPLATES ON EACH SERVICE PANEL, TRANSFORMER, DISCONNECT SWITCH MOTOR STARTER, ETC. (PER CEC-110.3).
- CONTRACTOR WILL BE REQUIRED TO PROVIDE A LABEL PER CEC ARTICLE 408.4(A). PROVIDE TYPED PANEL BOARD DIRECTORIES. PANEL BOARDS SHALL ALSO BE MARKED COMPLIANT WITH CEC 408.4(B) FOR ORIGINATED SOURCE OF POWER.
- NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN 6 FEET OF THE FLOOR OR TO THE STRUCTURAL CEILING ABOVE THE SPACE OF ELECTRICAL EQUIPMENT (PER CEC ART. 110.26).
- EACH MULTIWIRED BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, SUCH AS HANDLE-TIES AND MULTI-POLE BREAKERS (PER CEC-210.4(B)).
- THE DISCONNECTING MEANS FOR EACH SERVICE, FEEDER OR BRANCH CIRCUIT ORIGINATING ON A SWITCHBOARD OR PANELBOARD SHALL BE LEGIBLY AND DURABLY MARKED TO INDICATE ITS PURPOSE UNLESS SUCH PURPOSE IS CLEARLY EVIDENT (CFC-605.3.1).
- ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:
 - CALIFORNIA BUILDING CODE
 - CALIFORNIA ELECTRICAL CODE
 - NON RESIDENTIAL CEC ENERGY STANDARDS
- PROVIDE THE MAIN SERVICE EQUIPMENT ROOM EGRESS DOOR, WITH THE REQUIRED DIRECTION OF THE DOOR SWING AND THE REQUIRED DOOR HARDWARE. ART.110.26(C)(3).

RFI CON-022 — Buildings A, B, C, D, & E, connect ionizers to non dim power pack to control with lighting.

Panels PB, PC, PD, and PE to be grounded using 8' x 5/8" CU ground rod

RFI CON-017 — Ground Rods at 480V Panels (Follow-up to RFI-013)
ISSUE: RFI-013 response lacks ground rod installation detail
ROOT CAUSE: Original response missing specific methodology
RESPONSE: Provide and install grounding per drawing E2; see attached detail
ACTION: Install ground rods per drawing E2 (CLOSED 03/11/25)

GENERAL COORDINATION NOTES

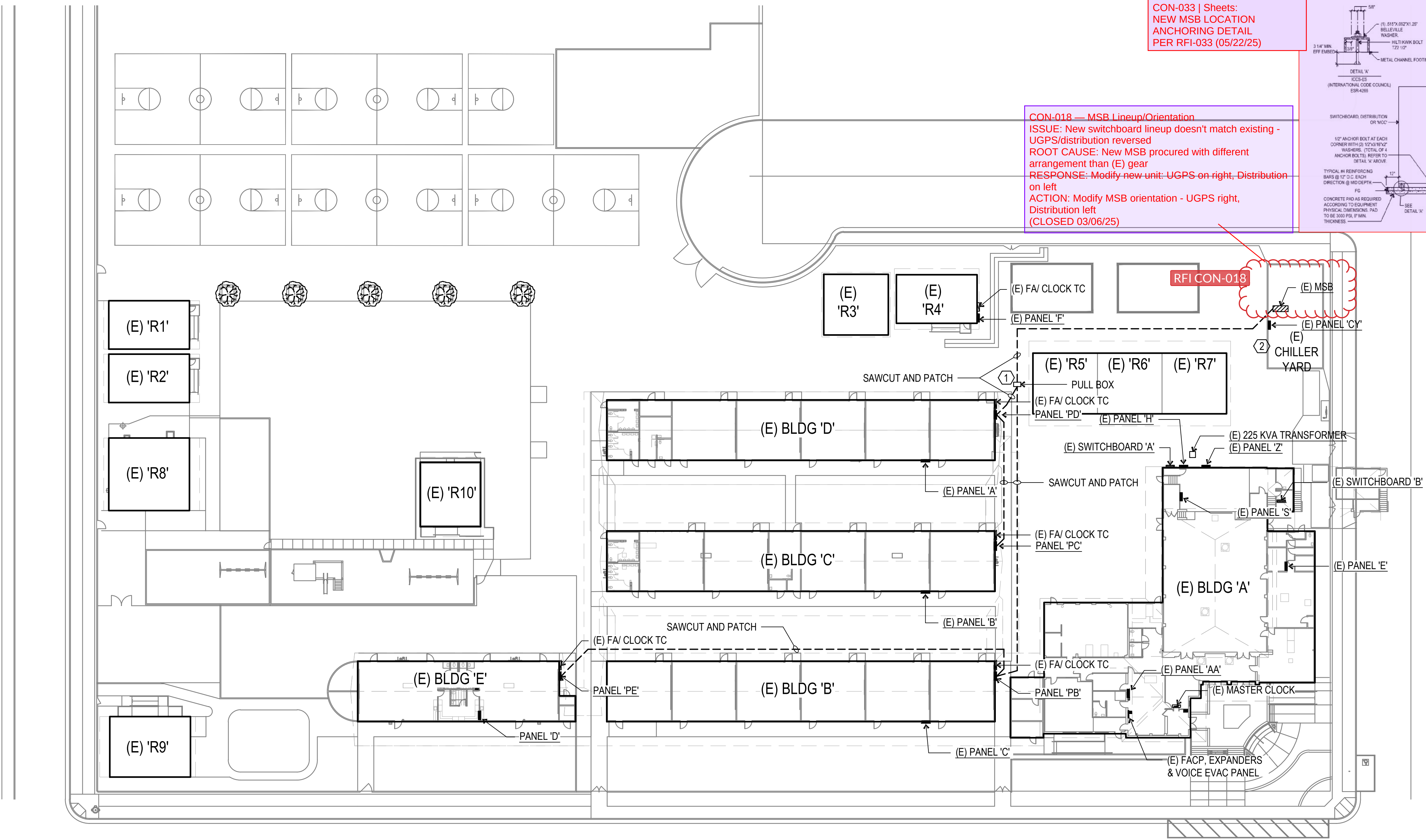
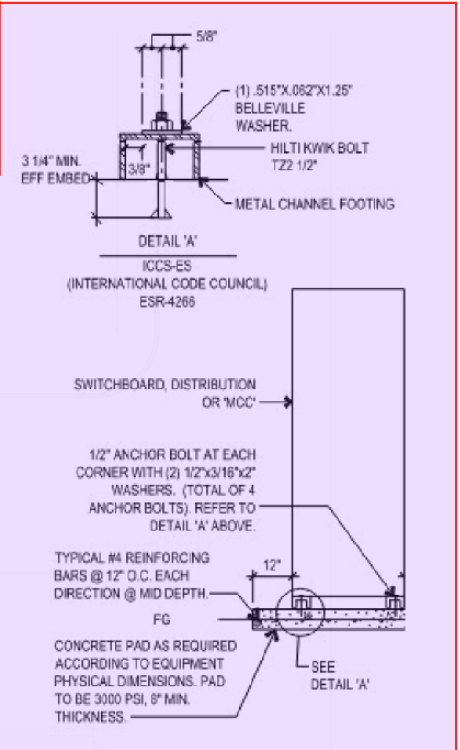
- Prior to commencing construction the Contractor shall carefully examine the site and existing conditions, compare the Drawings with the existing electrical installations and thoroughly familiarize themselves with all existing conditions within the scope of this work. The Contractor shall inform the Electrical Engineer in writing when this process is complete and if any discrepancies are noticed.
- Mechanical Coordination: Prior to commencing construction, the Contractor shall arrange a conference with the Mechanical/Plumbing Contractors and equipment suppliers to verify type, sizes, locations, requirements, controls and diagrams of all equipment furnished by them. In writing, he shall inform the Electrical Engineer that all phases of coordination of this equipment have been covered. If any unusual conditions or problems are noticed, they are to be enumerated at this time.

REFERENCE NOTES

- PULL BOX OLD CASTLE #B1730, B1730-51JH COVER AND B1730X12 EXTENSION.
- REFER TO MECHANICAL PLAN FOR ALL DEMOLITION WORK IN CHILLER YARD

CON-033 | Sheets:
NEW MSB LOCATION
ANCHORING DETAIL
PER RFI-033 (05/22/25)

CON-018 — MSB Lineup/Orientation
ISSUE: New switchboard lineup doesn't match existing - UGPS/distribution reversed
ROOT CAUSE: New MSB procured with different arrangement than (E) gear
RESPONSE: Modify new unit: UGPS on right, Distribution on left
ACTION: Modify MSB orientation - UGPS right, Distribution left (CLOSED 03/06/25)



ELECTRICAL SYMBOL SCHEDULE		
SYMBOL	NAME	DESCRIPTION
	FIXTURE TYPE "D" AND WATTAGE "30"	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	LED LIGHT FIXTURE	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	RECESSED LIGHT FIXTURE	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	LIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	ILLUMINATED EXIT SIGN	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	OCCUPANCY MOTION SENSOR	ABL+HLIGHT
	WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR @ +44\"/>	ABL+SENSOR SWITCH
	OCCUPANCY SENSOR, CEILING MOUNTED - NETWORK	ABL+HLIGHT
	OCCUPANCY SENSOR SWITCHPACK	
	WALL SWITCH @ 45\"/>	AC QUIET TYPE, 20A, 277V
	WALL SWITCH 3-WAY @ 45\"/>	AC QUIET TYPE, 20A, 277V
	"SOLATUBE" CONTROL SWITCH @ 45\"/>	PROVIDED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
	WALL MOTION DIMMER SWITCH	ABL+HLIGHT
	WALL MOTION DIMMER SWITCH ON / OFF + RAISE / LOWER	ABL+HLIGHT
	WALL MOTION DIMMER SWITCH ON / OFF + RAISE / LOWER WITH INTEGRAL OCCUPANCY SENSOR	ABL+HLIGHT
	WALL MOTION DIMMER SWITCH 2 ZONE ON / OFF + RAISE / LOWER	ABL+HLIGHT
	DUPLEX CONVENIENCE OUTLET MOUNTED @ +15\"/>	20A, NEMA GROUNDED
	WEATHERPROOF CONVENIENCE OUTLET MOUNTED @ +15\"/>	20A, NEMA GROUNDED
	QUADPLEX CONVENIENCE OUTLET MOUNTED @ +15\"/>	20A, NEMA GROUNDED
	ELECTRICAL SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM
	ELECTRICAL PANEL	REFER TO PANEL SCHEDULE
	TERMINAL CABINET	
	EXHAUST FAN	REFER TO MECHANICAL PLANS & SPECIFICATIONS.
	120V RELAY WITH 277V COIL	SIZED TO HANDLE EXHAUST FAN LOAD
	MOTOR WITH FUSIBLE DISCONNECT SWITCH, W.P. AS REQ'D	REFER TO MECHANICAL PLANS & SPECIFICATIONS.
	JUNCTION BOX	4" SQUARE BOX & FLUSH PLATE MINIMUM
	COMMUNICATIONS / DATA OUTLET @ +15\"/>	4 1118F x 2 1180 BOX W/ 1 1/2\"/>
	INTERCOM OUTLET @ +15\"/>	4 1118F x 2 1180 BOX W/ 1 1/2\"/>
	TELEPHONE OUTLET @ +15\"/>	4 1118F x 2 1180 BOX W/ 1 1/2\"/>
	PA SPEAKER, FLUSH CEILING MOUNTED U.O.N.	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
	EXTERIOR PA SPEAKER WALL MTD @ +9\"/>	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
	CLOCK / PA SPEAKER COMBINATION @ +7\"/>	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
	TELEVISION / VIDEO OUTLET	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
	PROGRAM BELL	
	SECURITY MICROPHONE MTD ABOVE DOOR U.O.N.	PROVIDED BY SCHOOL DISTRICT, INSTALLED BY E.C.
	SECURITY DOOR CONTACT	SEE SPECS
	SURFACE RACEWAY W/ OUTLETS & DATA JACKS	WIEMOLD 5400 SERIES SYSTEM. INSTALL DUPLEX / QUADPLEX RECEPTACLES AND DATA JACK AS INDICATED ON PLANS.
	POWER PACK 0-10V DIMMING	ABL+HLIGHT
	POWER PACK INCANDESCENT DIMMING	ABL+HLIGHT
	PLUG LOAD CONTROLLER	ABL+HLIGHT
	PHOTO SENSOR - 3 ZONE (LOWER CASE LETTER INDICATES CONTROL GROUP)	ABL+HLIGHT
	LOW VOLTAGE SENSOR WIRING, PLENUM RATED	REFER TO DEVICE LITERATURE FOR NUMBER OF CONDUCTORS.
	WIRING BELOW GRADE	3/4\"/>
	WIRING IN WALL OR CEILING	3/4\"/>
	FLEXIBLE CONDUIT	3/4\"/>
	CONDUIT STUB AND CAP	3/4\"/>
	HASH MARKS DENOTES QUANTITY OF CONDUCTORS	
	HOME RUN (TO PANEL "A", CIRCUIT "15")	3/4\"/>
	EXISTING CONDUIT TO REMAIN	
	EXISTING ITEM TO REMAIN	
	UNLESS OTHERWISE NOTED	
	GFCI	GROUND FAULT CIRCUIT INTERRUPTER

MEP Component Anchorage Note:

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC Sections: 1617A.1.18 through 1617A.1.25 and ASCE 7-16 Chapter 13.26 and 30.

- All permanent equipment and components.
 - Temporary or movable 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 flexible cable.
 - Temporary, movable equipment or mobile equipment which is heavier than 400 lbs 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 DSA.
- 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 traverse and longitudinal directions.
- A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
- B. Components weighing less than 20 pounds or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.
- The anchorage for all mechanical, electrical and plumbing components shall be subject to 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 requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note:

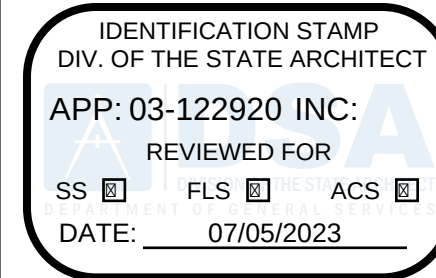
Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8 and 2019 CBC Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

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 pre-approved 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 loads.

Mechanical piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems(E):

MP □ MD □ PP □ E □ Option 1: Detailed on the approved drawings with project specific notes and details.

MP □ MD □ PP □ E □ Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM) #OPM-0052-13

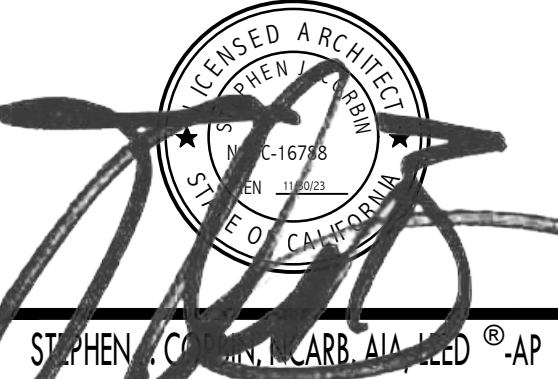


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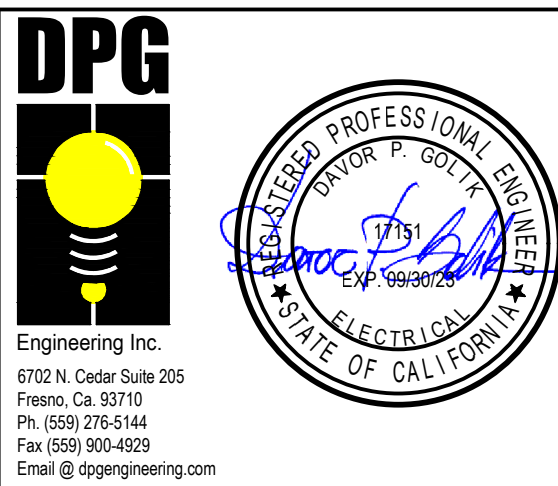
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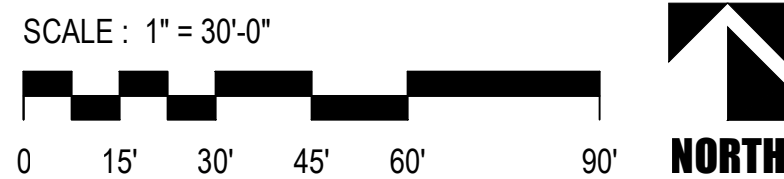
ELECT. SITE PLAN,
SYMBOL LEGEND,
DETAILS AND
NOTES

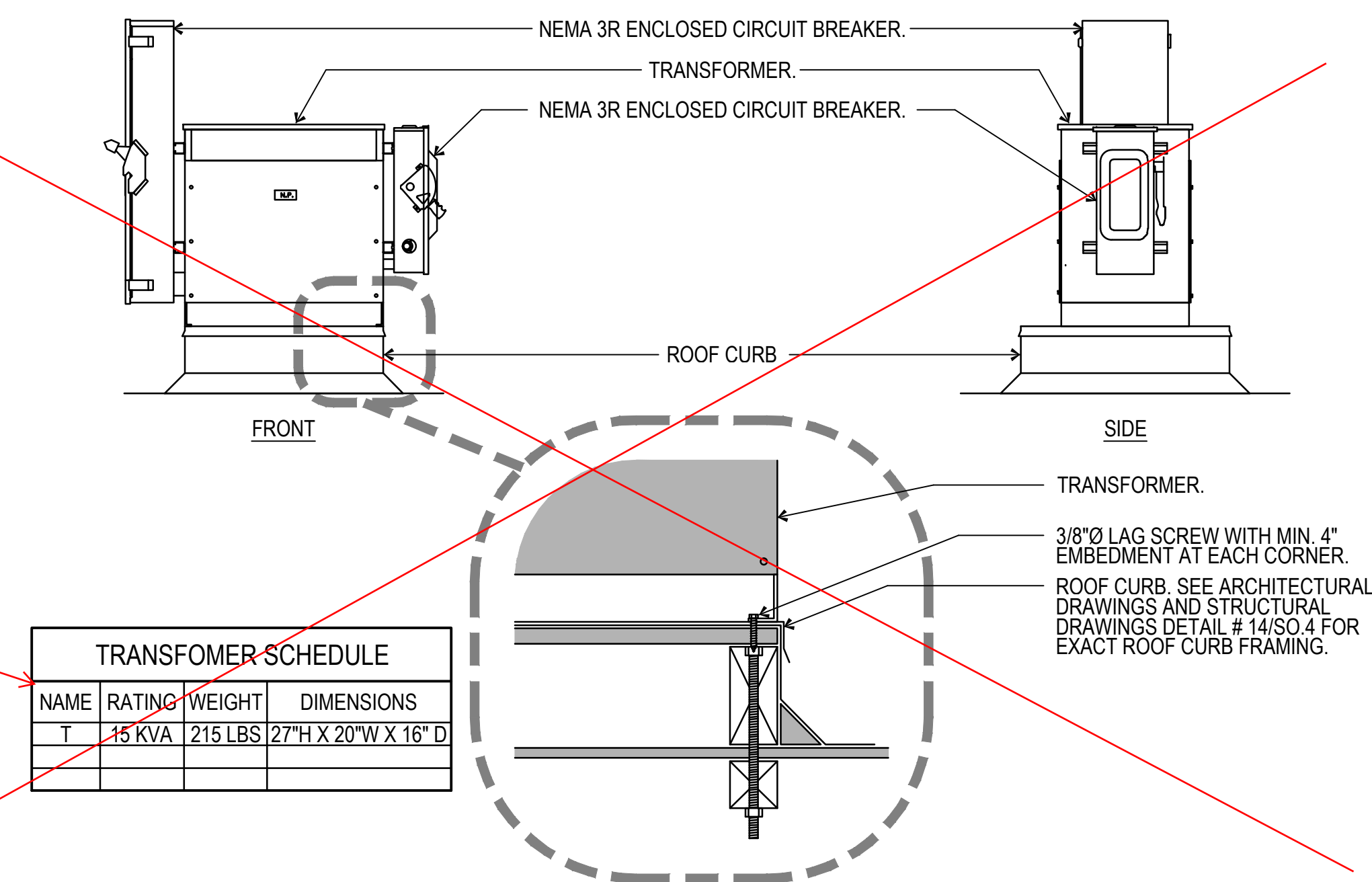
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JOB NO.
1317
DRAWN BY:
R.L.M.
CHECKED BY:
D.P.G.
DATE:
12/8/22

1.00
OF SHEETS

ELECTRICAL SITE PLAN





TRANSFORMER SCHEDULE			
NAME	RATING	WEIGHT	DIMENSIONS
T	15 KVA	215 LBS	27"H X 20"W X 16" D

FEEDER SCHEDULE						
CONDUIT AND CONDUCTORS (THHN/TW/CU)					NYLON PULL LINE (NPL)	GROUNDING COPPER PER CONDUIT
AMPS	PVC, EMT OR GRS	10 SW (31)	30 SW (33)	30 4W (34)	30 SW (35)	
30	3/4"	3 #10	3 #10	4 #10	NA	1 #10
40	3/4"	3 #8	3 #8	4 #8		#10
50	1"	3 #6	3 #6	4 #6		#10
60	1"	3 #6	3 #6	4 #6		#10
70	1 1/4"	3 #4	3 #4	4 #4		#6
80	1 1/4"	3 #3	3 #3	4 #3		#6
90	1 1/4"	3 #2	3 #2	4 #2		#6
100	1 1/2"	3 #1	3 #1	4 #1		#6
125	1 1/2"	3 #1	3 #1	4 #1		#6
150	2"	3 #10	3 #10	4 #10	5 #10	#4
175	2"	3 #10	3 #10	4 #10	5 #10	#4
200	2"	3 #10	3 #10	4 #10	5 #10	#4
225	2 1/2"	3 #40	3 #40	4 #40	5 #40	#2
250	2 1/2"	3 #50 Kcmil	3 #50 Kcmil	4 #50 Kcmil	5 #50 Kcmil	#2
300	3"	3 #50 Kcmil	3 #50 Kcmil	4 #50 Kcmil	5 #50 Kcmil	#2
400	4"	3 #60 Kcmil	3 #60 Kcmil	4 #60 Kcmil	5 #60 Kcmil	#10
450	4 1/2"	3 #50 Kcmil (EA)	3 #50 Kcmil (EA)	4 #50 Kcmil (EA)	5 #50 Kcmil (EA)	#10
600	23 (1/2")	3 #50 Kcmil (EA)	3 #50 Kcmil (EA)	4 #50 Kcmil (EA)	5 #50 Kcmil (EA)	#10
700	24"	3 #50 Kcmil (EA)	3 #50 Kcmil (EA)	4 #50 Kcmil (EA)	5 #50 Kcmil (EA)	#10
800	24"	3 #50 Kcmil (EA)	3 #50 Kcmil (EA)	4 #50 Kcmil (EA)	5 #50 Kcmil (EA)	#10
1000	13 (1/2")	3 #40 Kcmil (EA)	3 #40 Kcmil (EA)	4 #40 Kcmil (EA)	5 #40 Kcmil (EA)	#10
1200	43 (1/2")	3 #30 Kcmil (EA)	3 #30 Kcmil (EA)	4 #30 Kcmil (EA)	5 #30 Kcmil (EA)	#10
1600	44"	3 #30 Kcmil (EA)	3 #30 Kcmil (EA)	4 #30 Kcmil (EA)	5 #30 Kcmil (EA)	#10
2000	54"	3 #30 Kcmil (EA)	3 #30 Kcmil (EA)	4 #30 Kcmil (EA)	5 #30 Kcmil (EA)	#10

FEEDER AMPS

2000.35

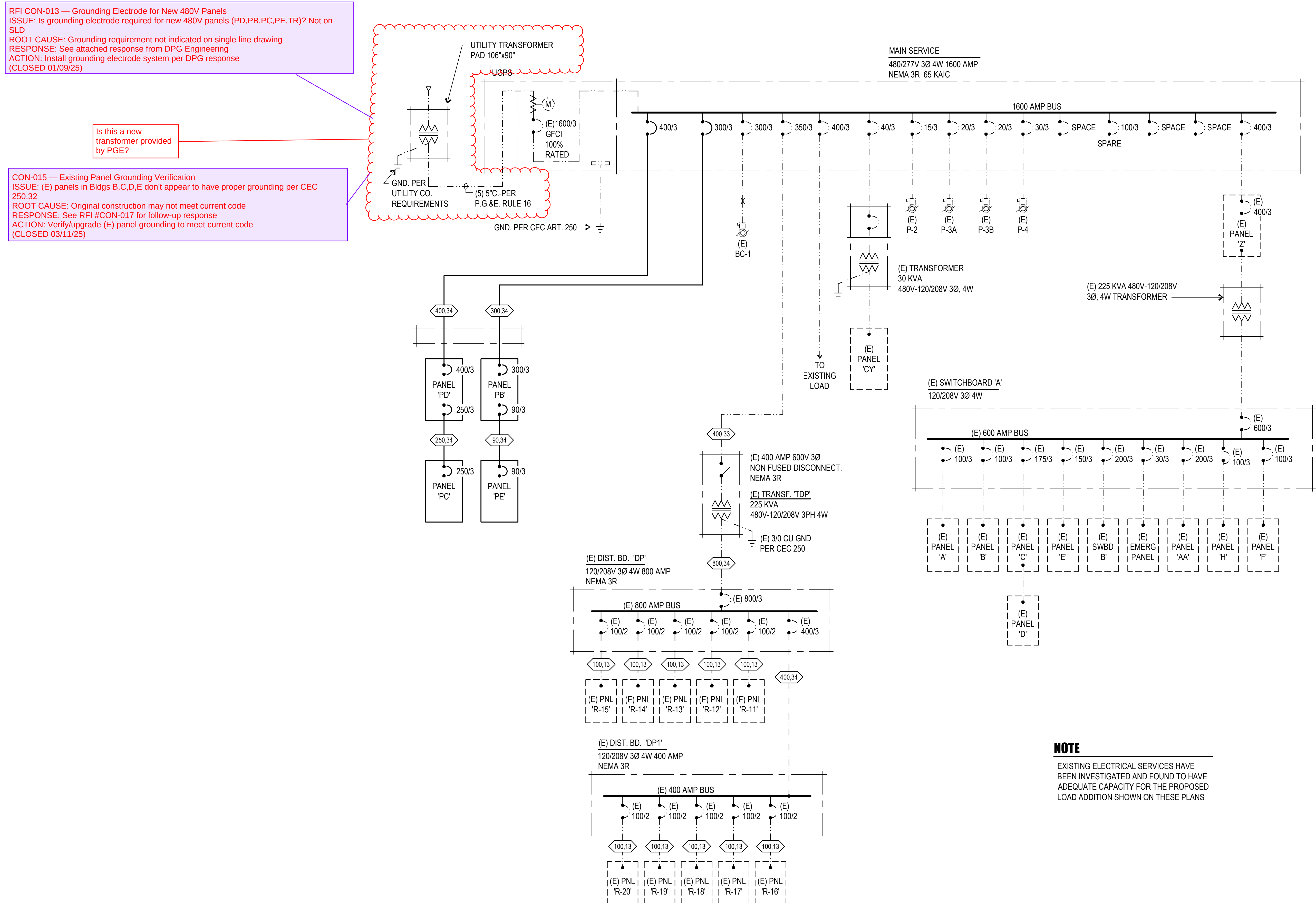
CONDUCTOR TYPE (3Ø 5W)

NOTE:
3Ø 5W FEEDERS ARE ØA, ØB, ØC AND TWO NEUTRAL CONDUCTORS FOR NON-
LINEAR LOAD APPLICATIONS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/05/2023

N: 63321-389 FILE: 15-6

NOT TO SCALE

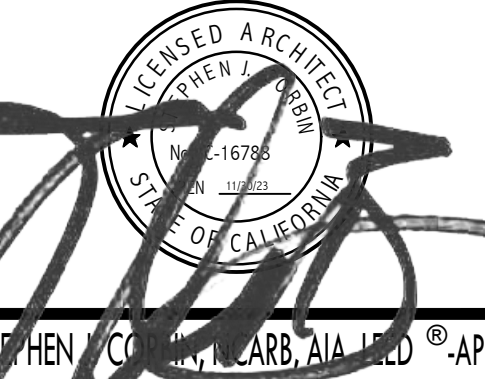


NOT TO SCALE

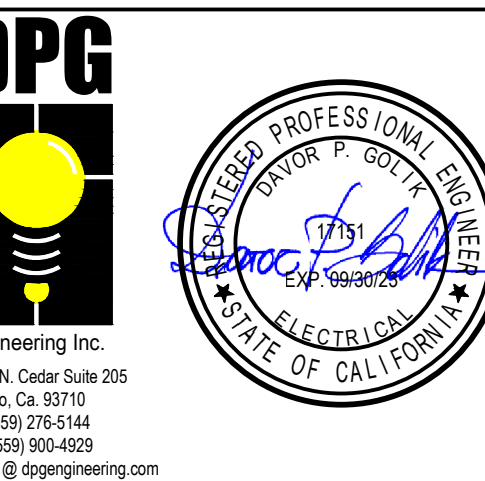
**ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA**



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BAKERSFIELD, CA 93309
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MEASURE AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

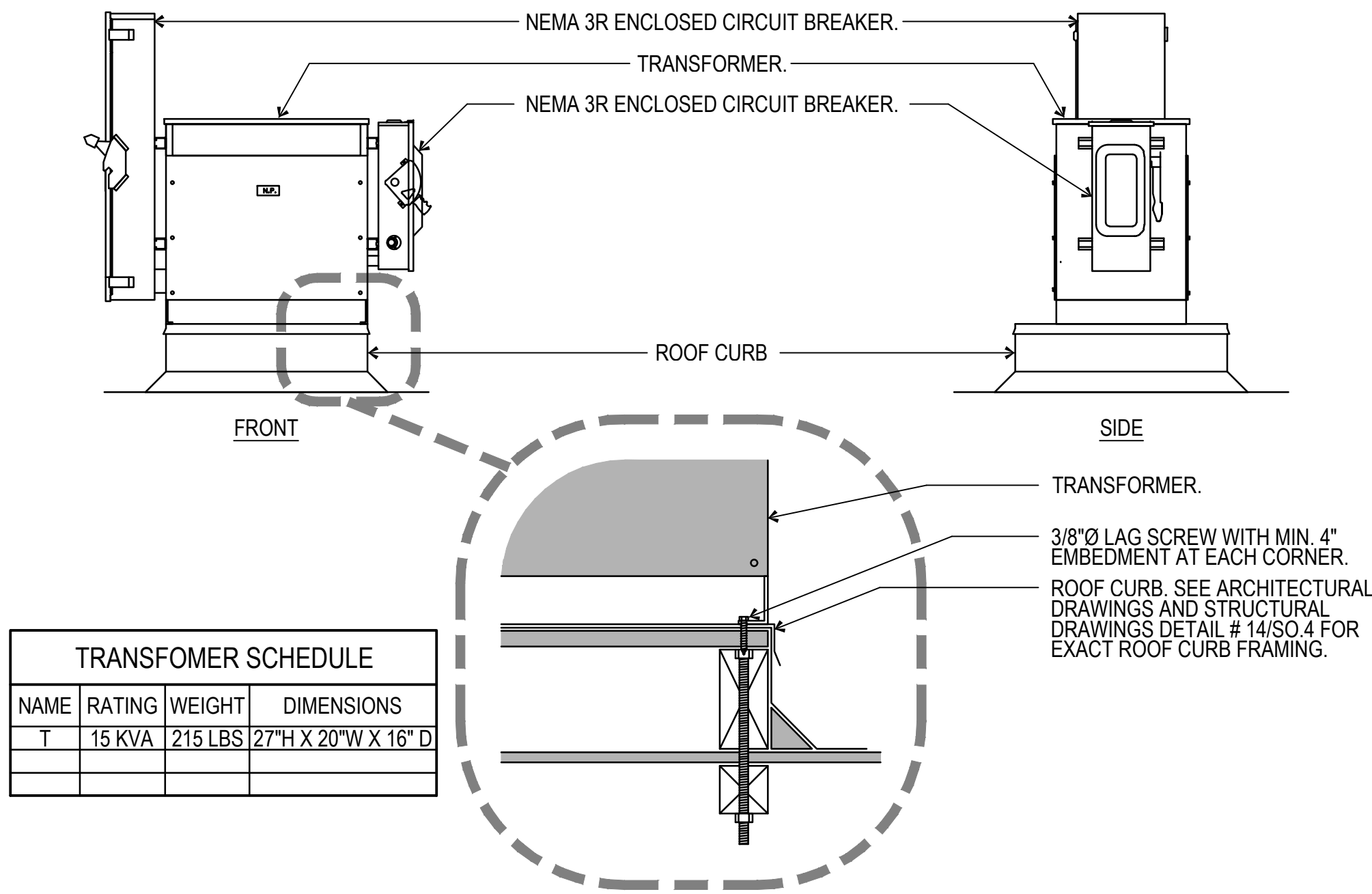


LECT. SINGLE LINE DIAGRAM, DETAILS AND SCHEDULES

MARK	DATE	REVISIONS
1		
2		
3		

NO.
317
OWN:
R.L.M.
CKED:
D.P.G.
E:
2/8/22

10
SHEETS



TRANSFORMER SCHEDULE			
NAME	RATING	WEIGHT	DIMENSIONS
T	15 KVA	215 LBS	27"H X 20"W X 16"D

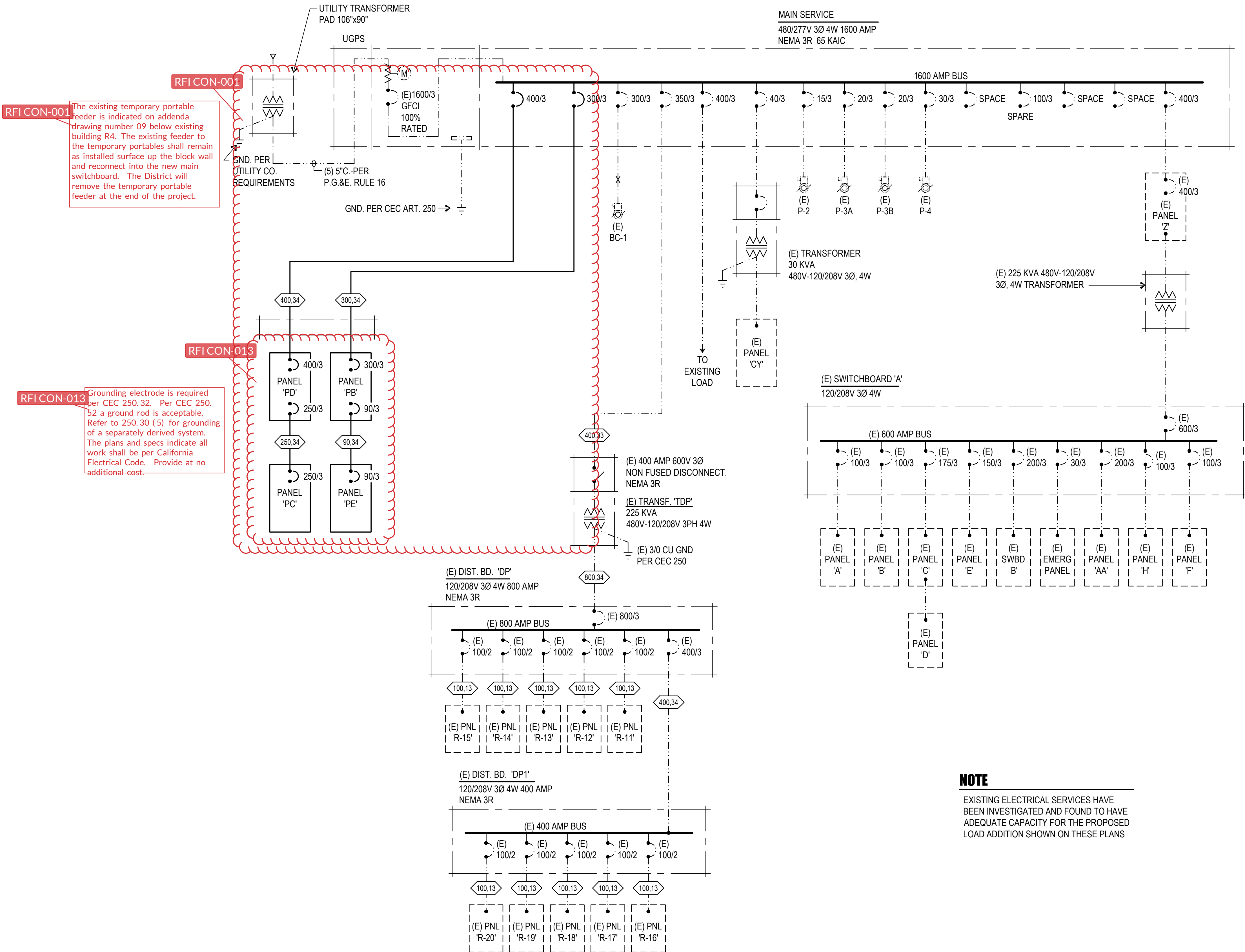
FEEDER SCHEDULE							
AMPS	PVC, EMT OR GRS	CONDUIT AND CONDUCTORS (THHN/THWN CU)				NYLON PULL LINE (NPL)	GROUNDING (THHN/THWN) COPPER PER CONDUIT
		10 3W (13)	30 3W (33)	30 4W (34)	30 5W (35)		
30	3/4"	3 #10	3 #10	4 #10	NA	1	#10
40	3/4"	3 #8	3 #8	3 #8			#10
50	1"	3 #6	3 #6	4 #6			#10
60	1"	3 #6	3 #6	4 #6			#10
70	1 1/4"	3 #4	3 #4	4 #4			#8
80	1 1/4"	3 #3	3 #3	4 #3			#8
90	1 1/4"	3 #2	3 #2	4 #2			#6
100	1 1/2"	3 #1	3 #1	4 #1	5 #1		#6
125	1 1/2"	3 #1	3 #1	4 #1	5 #1		#6
150	2"	3 #10	3 #10	4 #10	5 #10		#6
175	2"	3 #20	3 #20	4 #20	5 #20		#4
200	2"	3 #30	3 #30	4 #30			#4
225	2 1/2"	3 #40	3 #40	4 #40	5 #40		#2
250	3"	3 #250 Kcmil	3 #250 Kcmil	4 #250 Kcmil	5 #250 Kcmil		#2
300	3 1/2"	3 #350 Kcmil	3 #350 Kcmil	4 #350 Kcmil	5 #350 Kcmil		#2
400	4"	3 #500 Kcmil	3 #500 Kcmil	4 #500 Kcmil	5 #500 Kcmil		#2
500	(2) 3"	3 #250 Kcmil (EA)	3 #250 Kcmil (EA)	4 #250 Kcmil (EA)	5 #250 Kcmil (EA)		#20
600	(2) 3 1/2"	3 #350 Kcmil (EA)	3 #350 Kcmil (EA)	4 #350 Kcmil (EA)	5 #350 Kcmil (EA)		#20
700	(2) 4"	3 #500 Kcmil (EA)	3 #500 Kcmil (EA)	4 #500 Kcmil (EA)	5 #500 Kcmil (EA)		#20
800	(2) 4"	3 #600 Kcmil (EA)	3 #600 Kcmil (EA)	4 #600 Kcmil (EA)	5 #600 Kcmil (EA)		#20
1000	(3) 3 1/2"	3 #400 Kcmil (EA)	3 #400 Kcmil (EA)	4 #400 Kcmil (EA)	5 #400 Kcmil (EA)		#30
1200	(4) 3 1/2"	3 #350 Kcmil (EA)	3 #350 Kcmil (EA)	4 #350 Kcmil (EA)	5 #350 Kcmil (EA)		#30
1600	(4) 4"	3 #600 Kcmil (EA)	3 #600 Kcmil (EA)	4 #600 Kcmil (EA)	5 #600 Kcmil (EA)		#40
2000	(6) 4"	3 #600 Kcmil (EA)	3 #600 Kcmil (EA)	4 #600 Kcmil (EA)	5 #600 Kcmil (EA)		#40

FEEDER AMPS
2000.35
CONDUCTOR TYPE (30 5W)
NOTE:
30 5W FEEDERS ARE OA, OB, OC AND TWO NEUTRAL CONDUCTORS FOR NON LINEAR LOAD APPLICATIONS.

TRANSFORMER ROOF MOUNTING DETAIL

NOT TO SCALE
1
E1.10

MSB Mounting Detail was not included in original set.
Please see RFI-033 for information and installation.



NOTE
EXISTING ELECTRICAL SERVICES HAVE BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION SHOWN ON THESE PLANS

ELECTRICAL SINGLE LINE DIAGRAM

NOT TO SCALE
2
E1.10

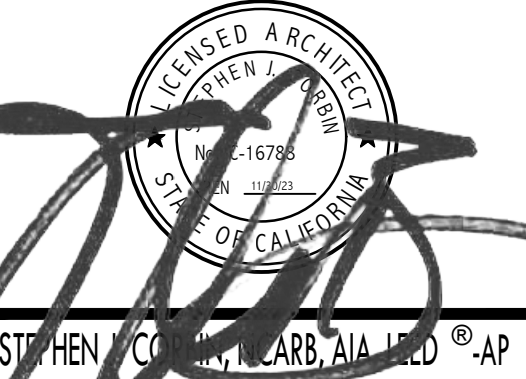
IDENTIFICATION STAMP
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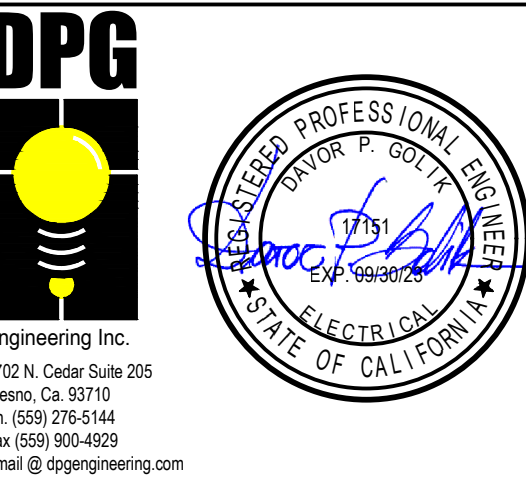
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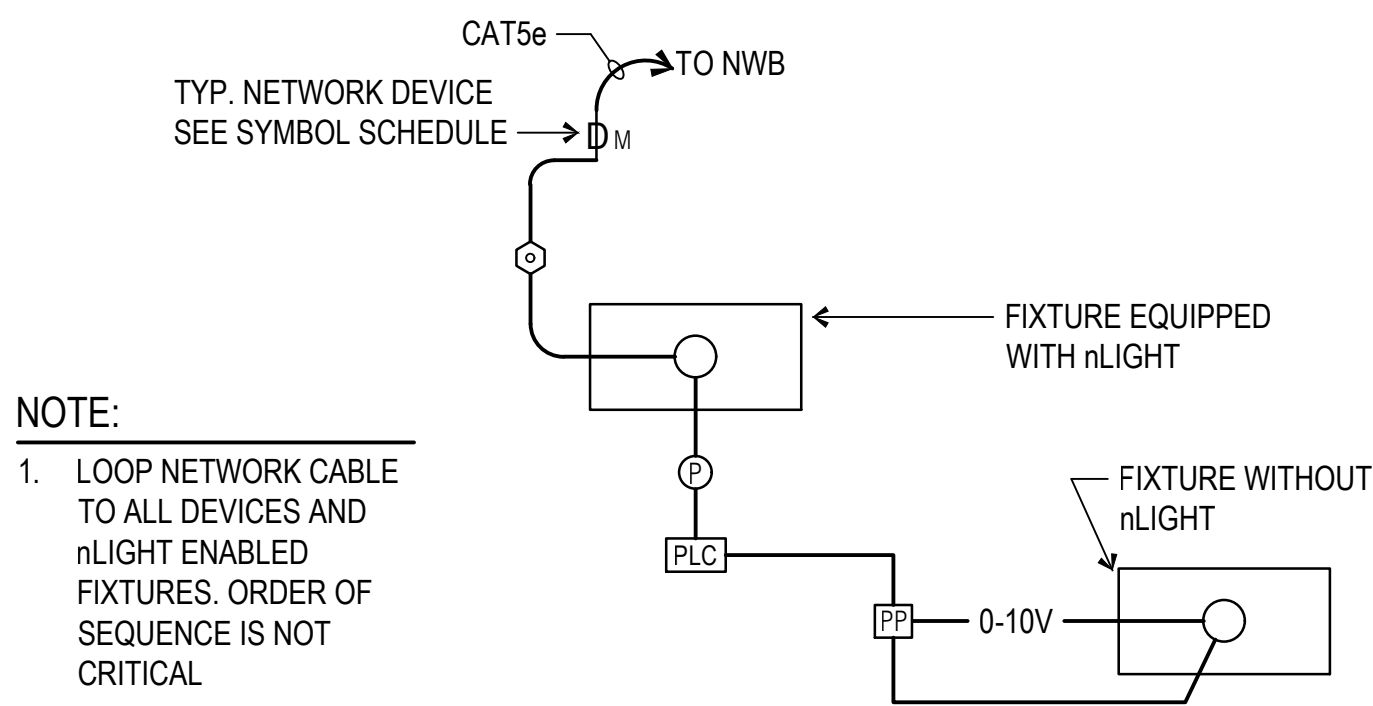
ELECT. SINGLE LINE
DIAGRAM, DETAILS
AND SCHEDULES

MARK	DATE	REVISIONS
1		
2		
3		

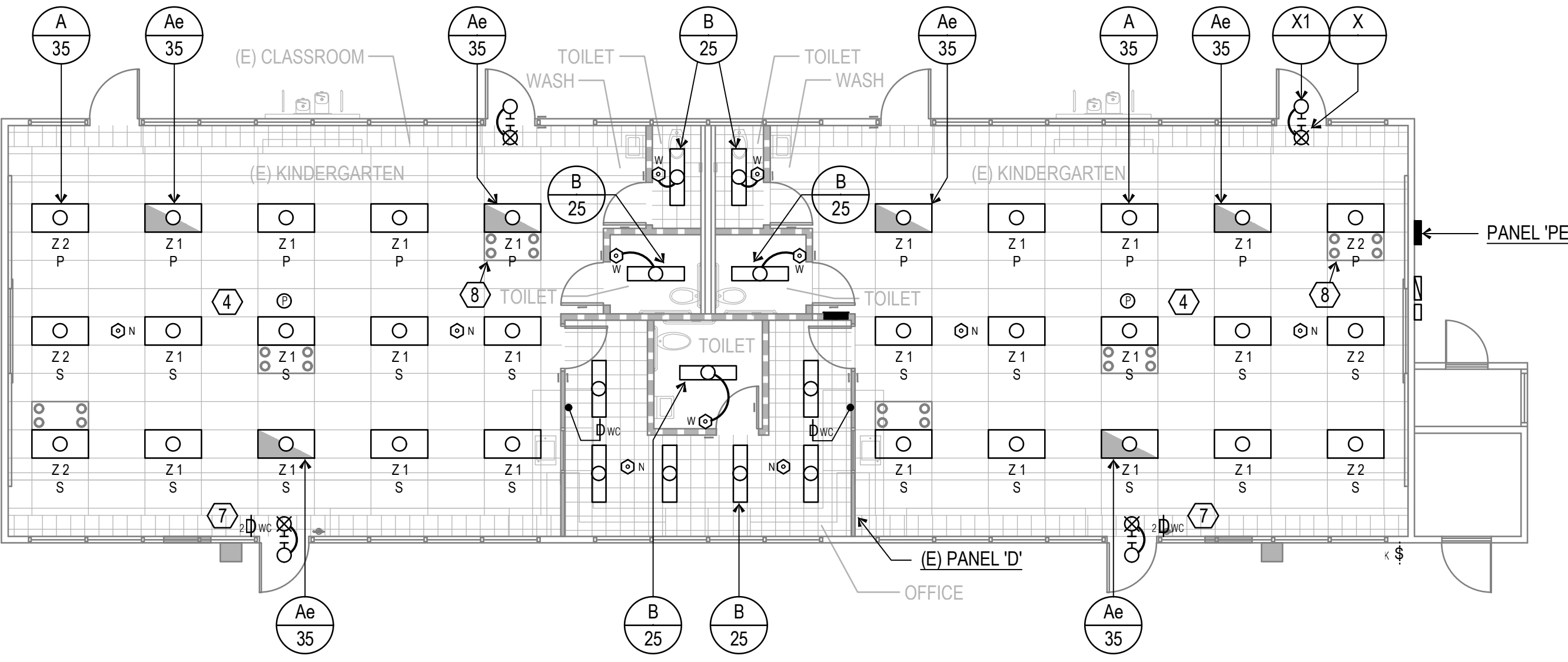
JOB NO.
1317
DRAWN:
R.L.M.
CHECKED:
D.P.G.
DATE:
12/8/22
OF
1.10
SHEETS

LIGHTING DEMO NOTE
REMOVE ALL EXISTING LIGHT FIXTURES, OCCUPANCY SENSORS, SWITCH PACKS AND DIMMING CONTROL MODULES (IF APPLICABLE) REMOVE ANY CONDUIT AND CONDUCTORS NOT TO BE RE-USED.

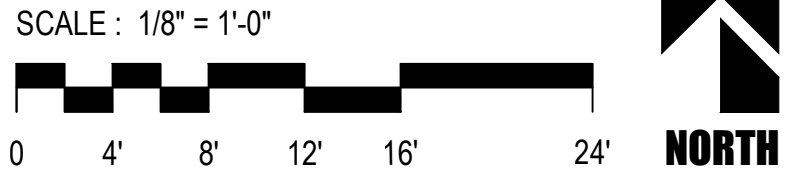
- CEILING NOTES**
1. REMOVE AND RE-INSTALL CEILING MOUNT WIRELESS ACCESS POINTS INTO NEW CEILING.
 2. REMOVE AND RE-INSTALL CEILING MOUNT PA AND AV SPEAKERS INTO NEW CEILING.



- REFERENCE NOTES**
1. REMOVE TWO/THREE SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE DIMMING WALL CONTROLLER.
 2. REMOVE SWITCH AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE MOTION DIMMING WALL CONTROLLER.
 3. REMOVE SWITCH AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE DIMMING WALL CONTROLLER.
 4. CONNECT TO EXISTING LIGHTING CIRCUIT.
 5. CONNECT TO EXISTING CORRIDOR LIGHTING.
 6. REMOVE TWO EXISTING SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE 2 ZONE DIMMING WALL CONTROLLER.
 7. REMOVE THREE EXISTING SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE 2 ZONE DIMMING WALL CONTROLLER.
 8. TYPICAL, EXISTING ELECTRONIC FILTER IN NEW LOCATION. RECONNECT TO EXISTING CIRCUIT.

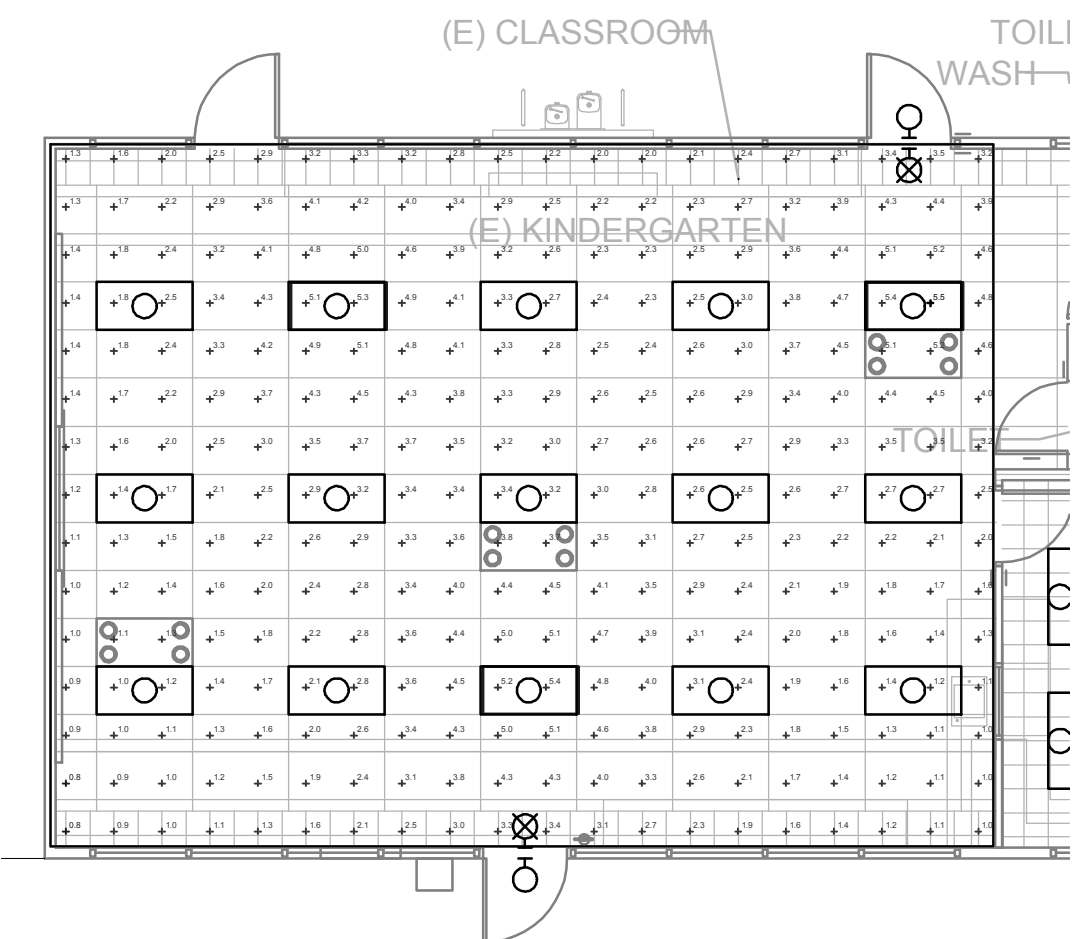
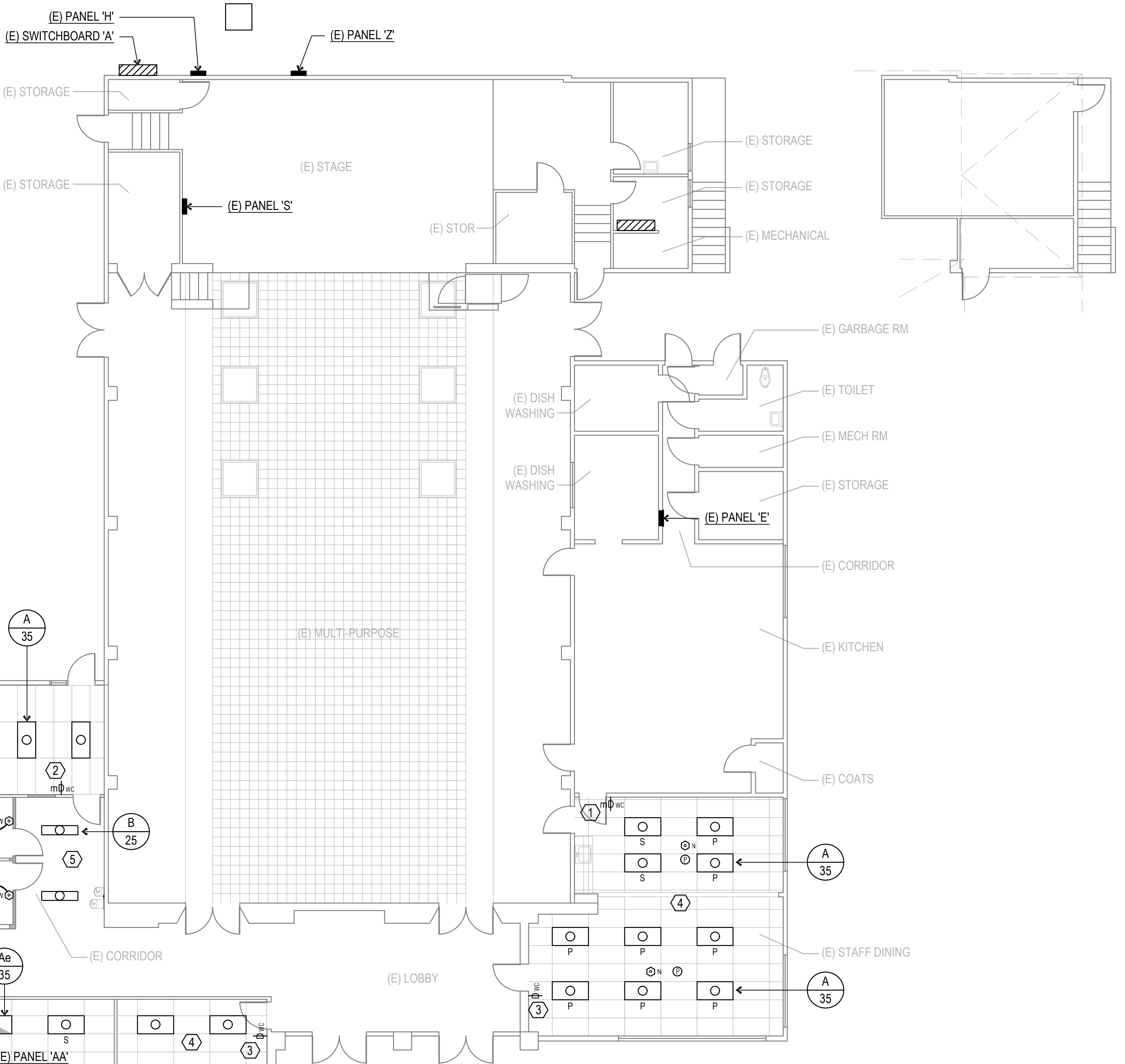


LIGHTING FLOOR PLAN
BUILDING 'E'

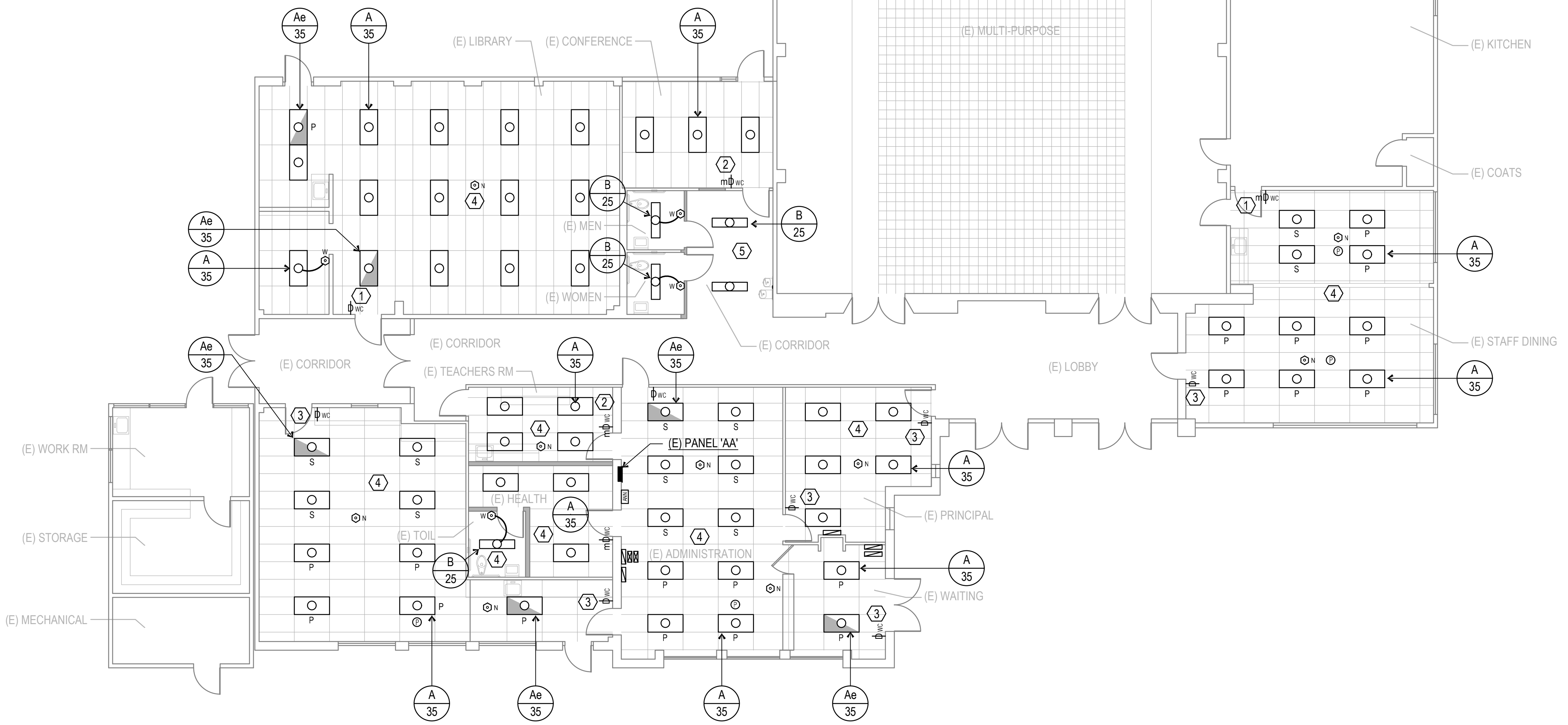
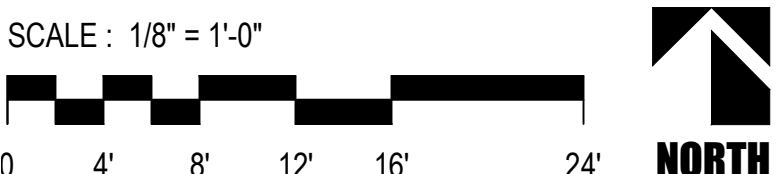


TYPICAL ZONE WIRING DIAGRAM

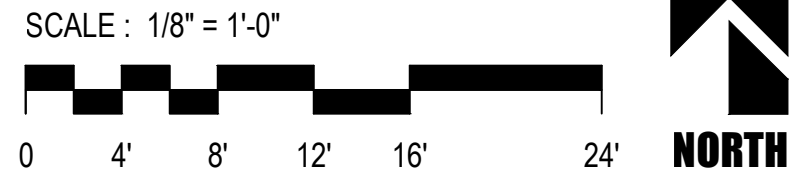
NOT TO SCALE



EMERGENCY LIGHTING
POINT BY POINT
BUILDING 'E'



LIGHTING FLOOR PLAN
BUILDING 'A'



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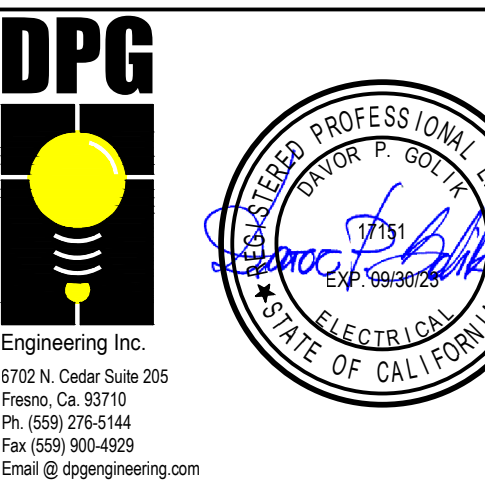
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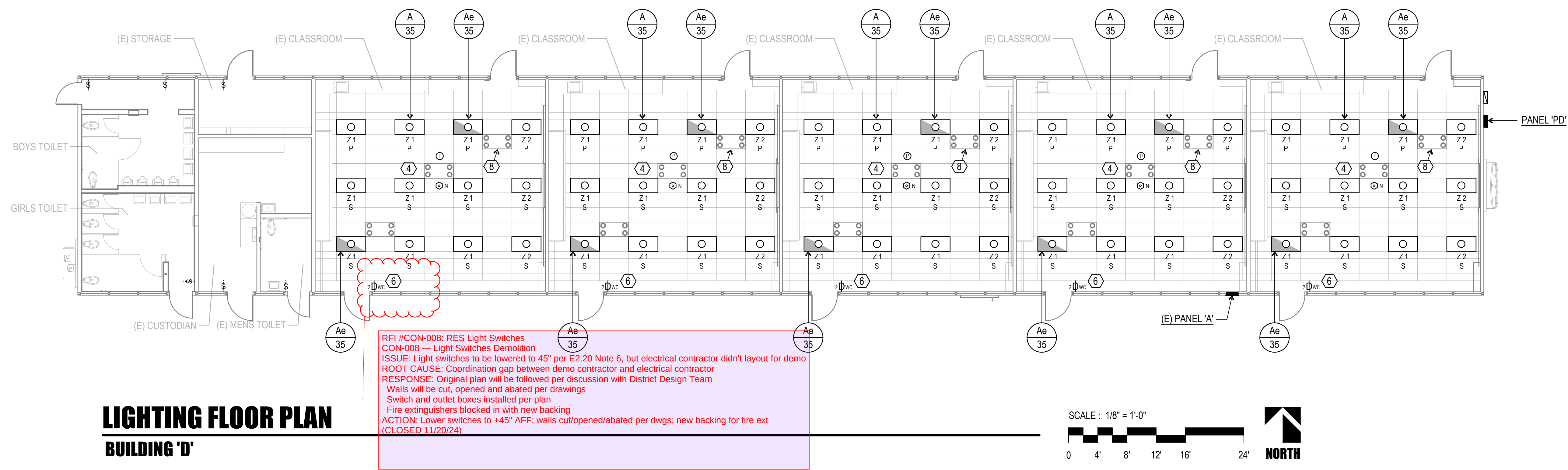


BLDGS A & E
LIGHTING
FLOOR PLANS,
DETAILS AND
NOTES

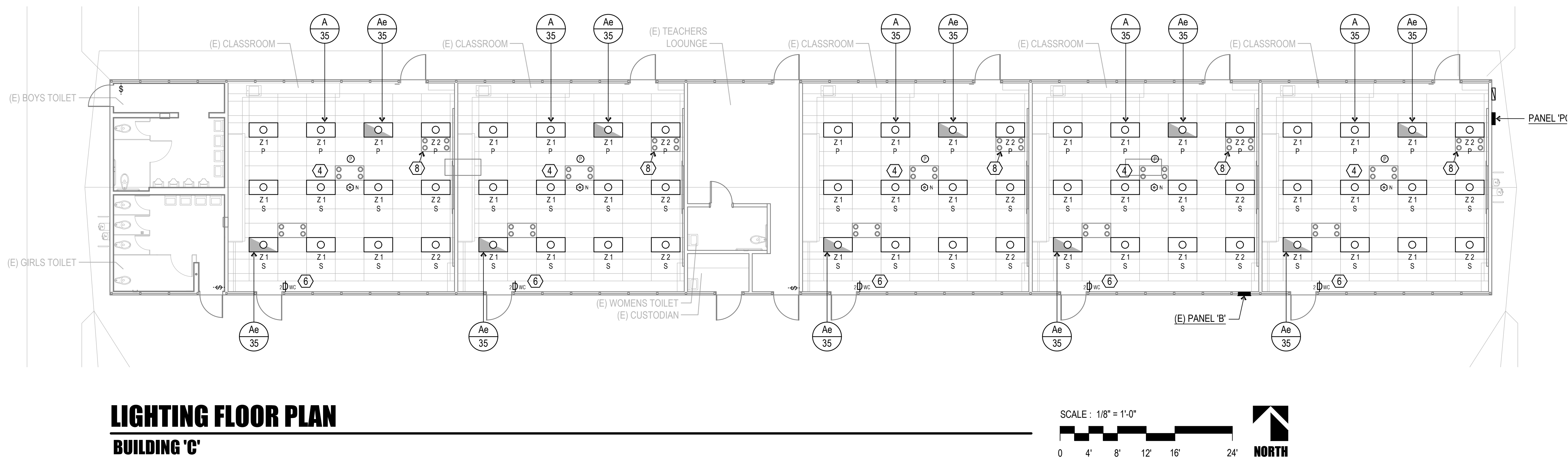
MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.
1317
DRAWN:
R.L.M.
CHECKED:
D.P.G.
DATE:
12/8/22

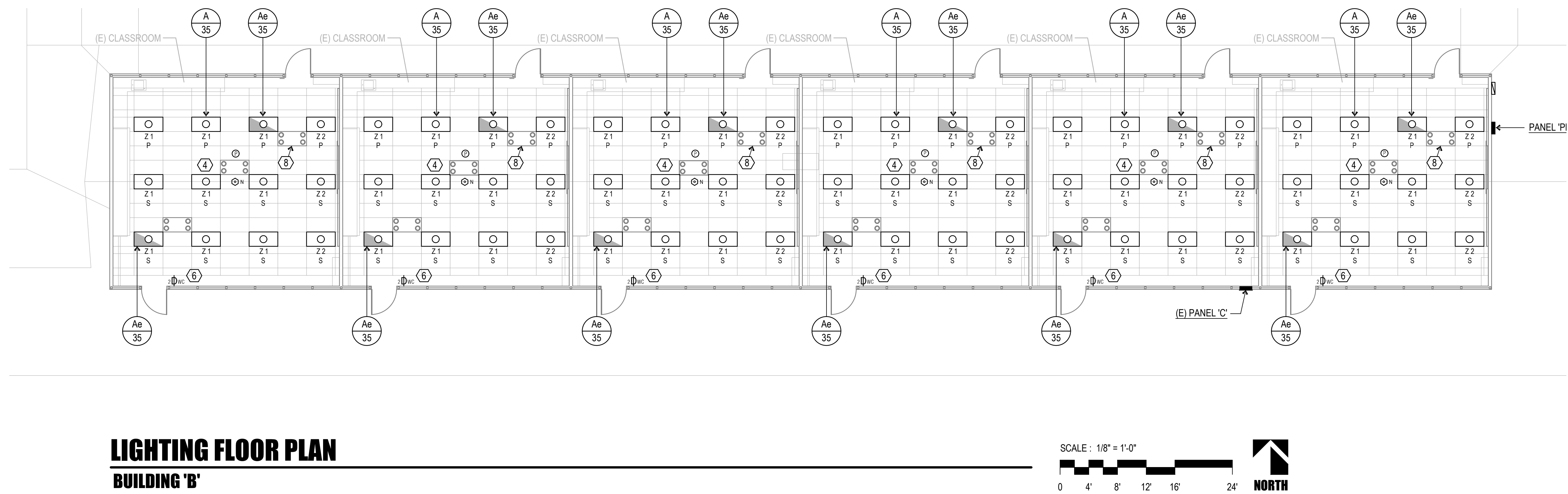
2.10
OF SHEETS



LIGHTING FLOOR PLAN
BUILDING 'D'



LIGHTING FLOOR PLAN
BUILDING 'C'



LIGHTING FLOOR PLAN
BUILDING 'B'

REFERENCE NOTES

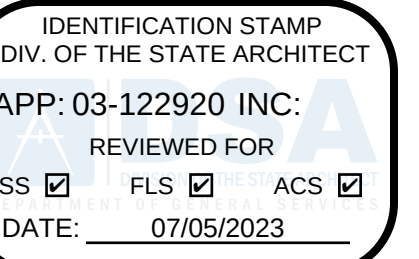
- 1 REMOVE TWO/THREE SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE DIMMING WALL CONTROLLER.
- 2 REMOVE SWITCH AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE MOTION DIMMING WALL CONTROLLER.
- 3 REMOVE SWITCH AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE DIMMING WALL CONTROLLER.
- 4 CONNECT TO EXISTING LIGHTING CIRCUIT.
- 5 CONNECT TO EXISTING CORRIDOR LIGHTING.
- 6 REMOVE TWO EXISTING SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE 2 ZONE DIMMING WALL CONTROLLER.
- 7 REMOVE THREE EXISTING SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE 2 ZONE DIMMING WALL CONTROLLER.
- 8 TYPICAL, EXISTING ELECTRONIC FILTER IN NEW LOCATION. RECONNECT TO EXISTING CIRCUIT.

LIGHTING DEMO NOTE

REMOVE ALL EXISTING LIGHT FIXTURES, OCCUPANCY SENSORS, SWITCH PACKS AND DIMMING CONTROL MODULES (IF APPLICABLE) REMOVE ANY CONDUIT AND CONDUCTORS NOT TO BE RE-USED.

CEILING NOTES

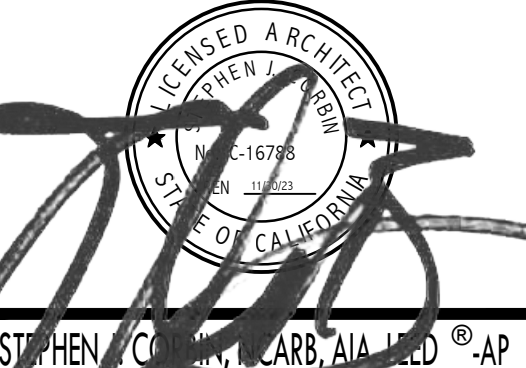
1. REMOVE AND RE-INSTALL CEILING MOUNT WIRELESS ACCESS POINTS INTO NEW CEILING.
2. REMOVE AND RE-INSTALL CEILING MOUNT PA AND AV SPEAKERS INTO NEW CEILING.



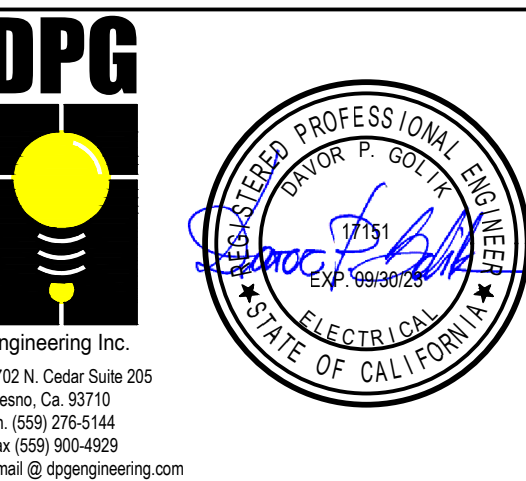
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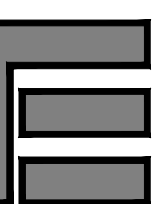
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BLDGS B,C & D
LIGHTING
FLOOR PLANS
AND NOTES

MARK	DATE	REVISIONS
△		
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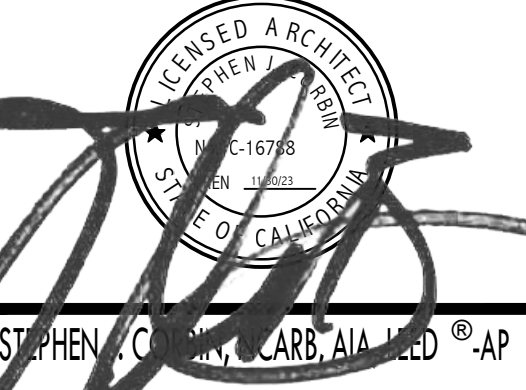
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D.P.G.
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12/8/22



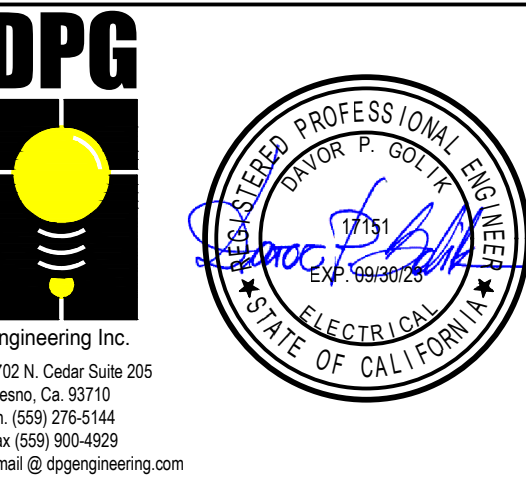
2.20
OF
SHEETS



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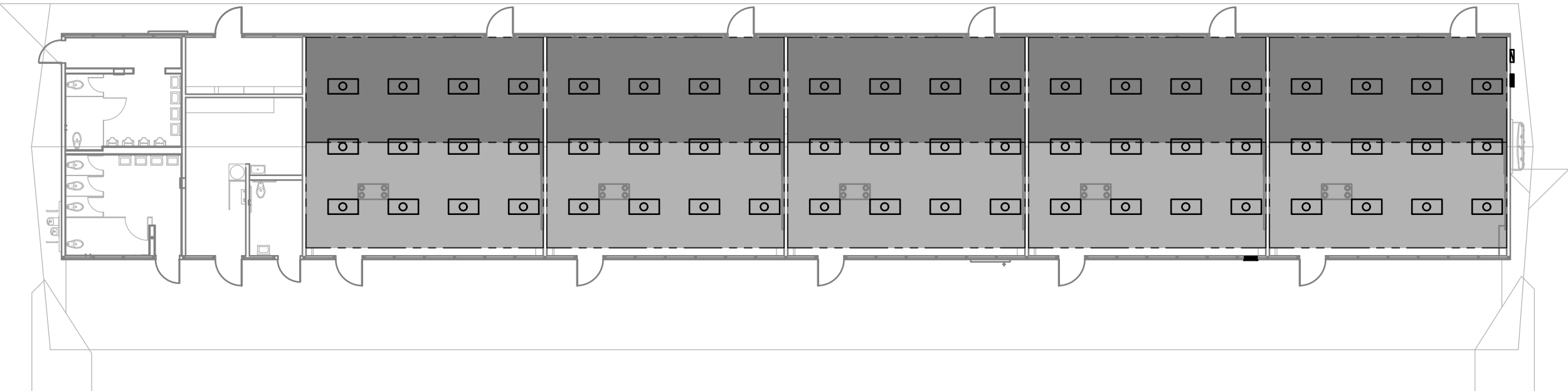
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.



BLDGS AB,C,D,E
DAYLIT LIGHTING
FLOOR PLANS

MARK	DATE	REVISIONS
△		
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△		

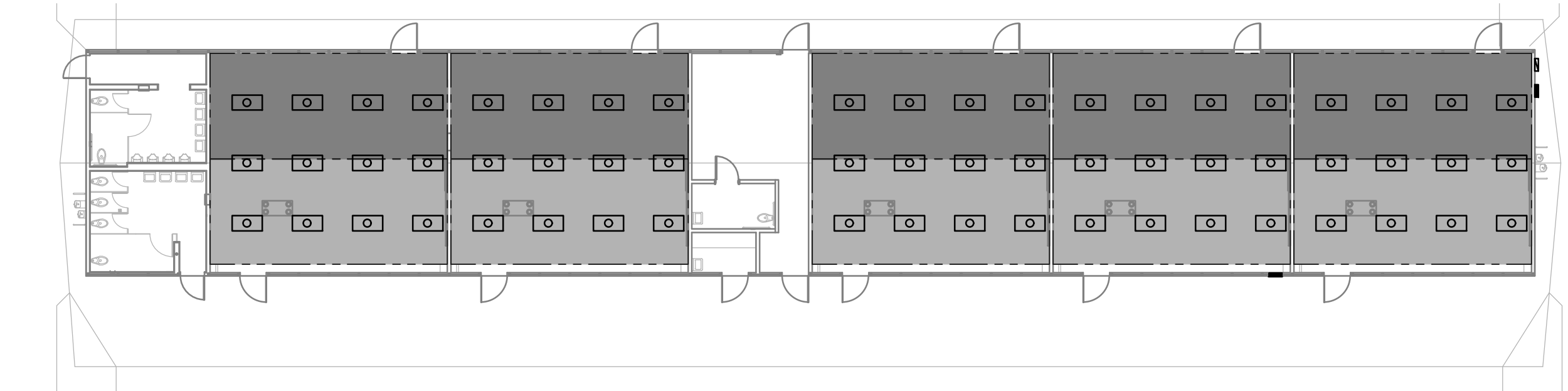
JOB NO. 1317	E 2.30 OF SHEETS
DRAWN: R.L.M.	
CHECKED: D.P.G.	
DATE: 12/8/22	



LIGHTING FLOOR PLAN

BUILDING 'D'

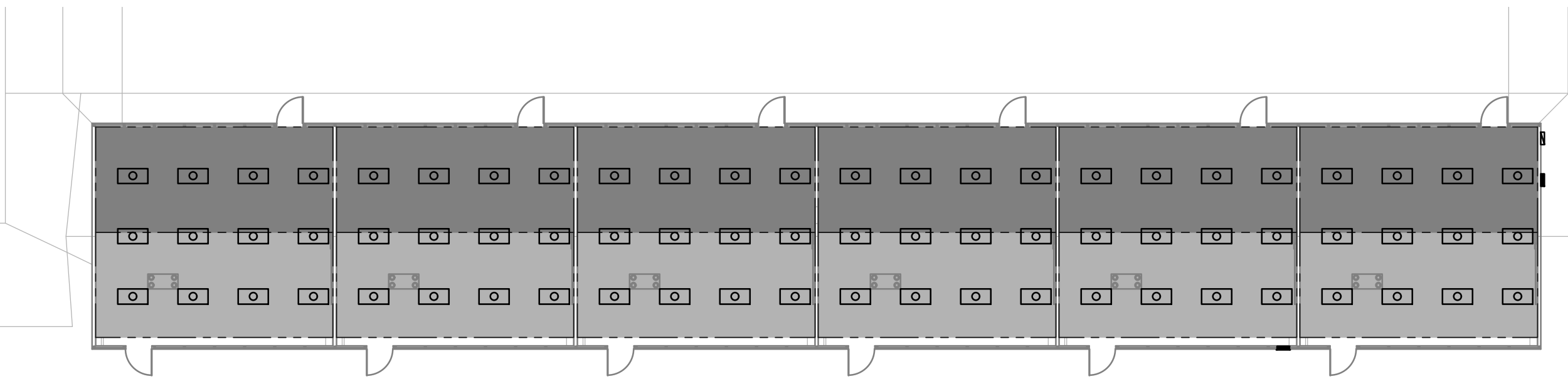
SCALE : 1/16" = 1'-0"



LIGHTING FLOOR PLAN

BUILDING 'C'

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



LIGHTING FLOOR PLAN

BUILDING 'B'

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



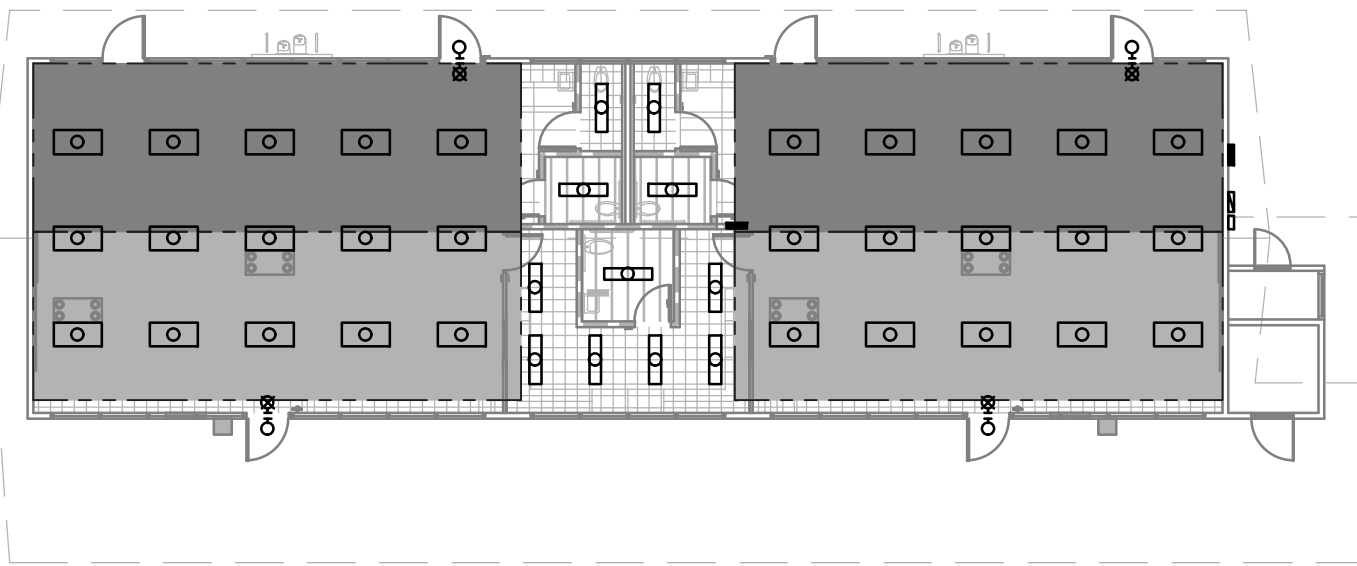
GENERAL TITLE 24 LIGHTING NOTES:

REFER TO CALIFORNIA ENERGY CODE FOR ALL REQUIREMENTS.

REFER TO LIGHTING CONTROL WIRING DIAGRAM AND DAYLIT FLOOR PLAN AND COMPLY WITH THE FOLLOWING:

- LUMINARIES IN THE SKYLIT ZONE SHALL BE CONTROLLED SEPARATELY FROM THOSE IN THE PRIMARY SIDELIT DAYLIT ZONES.
- LUMINARIES THAT FALL IN BOTH, A SKYLIT AND PRIMARY SIDELIT DAYLIT ZONE, SHALL BE CONTROLLED AS PART OF THE SKYLIT DAYLIT ZONE.
- LUMINARIES IN THE SECONDARY DAYLIT ZONE SHALL BE CONTROLLED INDEPENDENTLY FROM ALL OTHER LUMINARIES INCLUDING THOSE IN THE SKYLIT AND PRIMARY SIDELIT ZONES. LUMINARIES THAT FALL IN BOTH PRIMARY AND SECONDARY SIDELIT DAYLIT ZONES SHALL BE CONTROLLED AS PART OF THE PRIMARY SIDELIT DAYLIT ZONE.
- LUMINARIES THAT FALL IN ALL THREE ZONES SHALL BE CONTROLLED AS PART OF THE SKYLIT DAYLIT ZONE.
- PROVIDE SHOP DRAWING OF LIGHTING CONTROL SYSTEM.
- NETWORK CABLING NOT SHOWN FOR CLARITY. REFER TO CONTROL DIAGRAM.
- CONTROL EQUIPMENT IS INDICATED DIAGRAMMATICALLY. LOCATE IN ACCESSIBLE ATTIC SPACES.

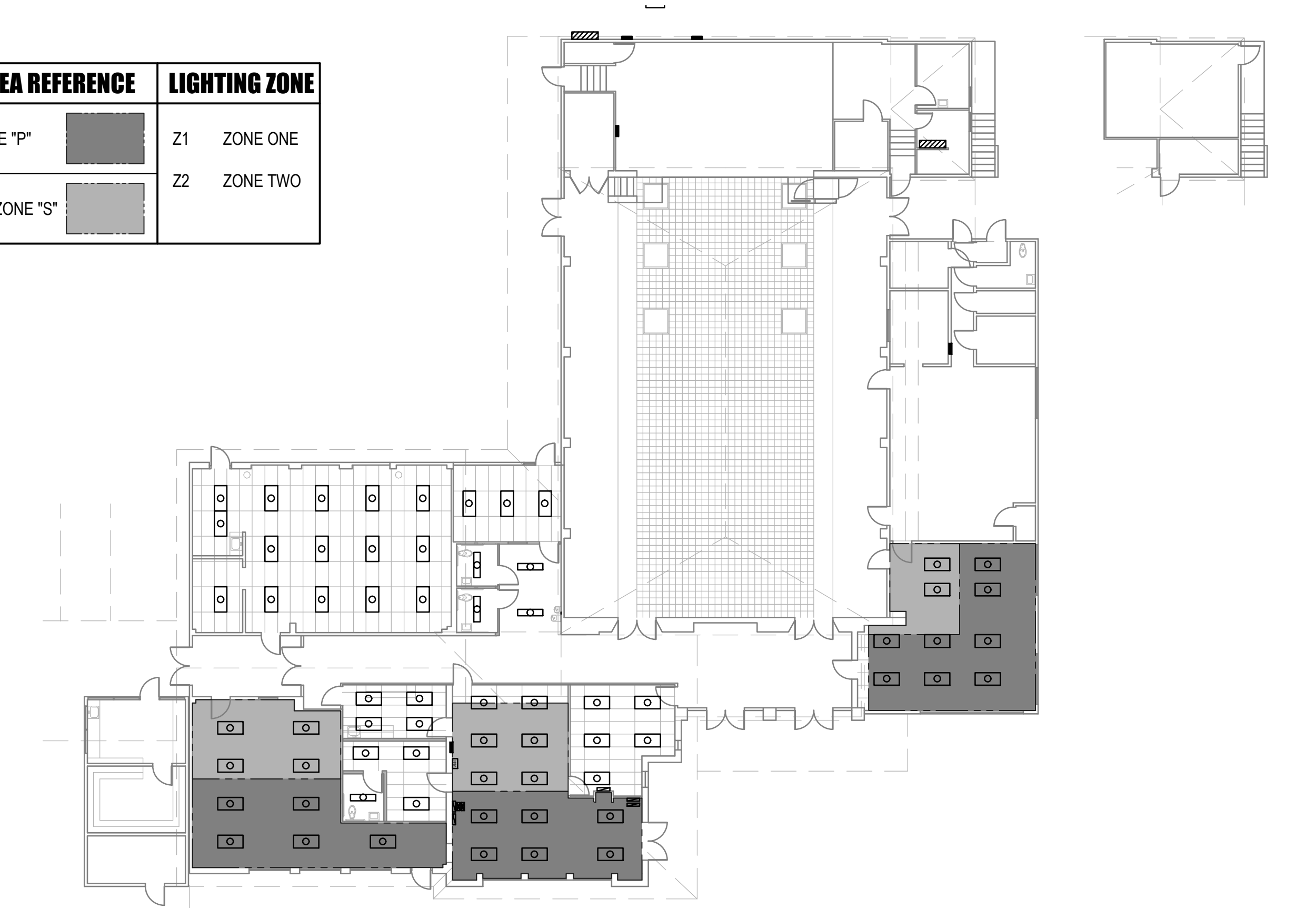
DAYLIT ZONE AREA REFERENCE	LIGHTING ZONE
PRIMARY SIDELIT ZONE "P"	Z1 ZONE ONE
SECONDARY SIDELIT ZONE "S"	Z2 ZONE TWO



LIGHTING FLOOR PLAN

BUILDING 'E'

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



LIGHTING FLOOR PLAN

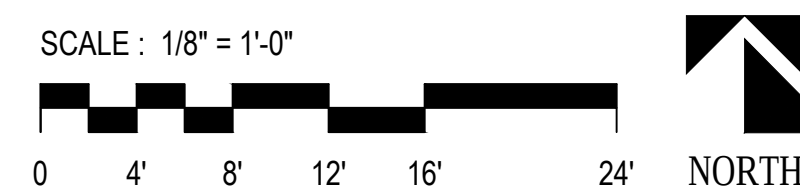
BUILDING 'A'

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



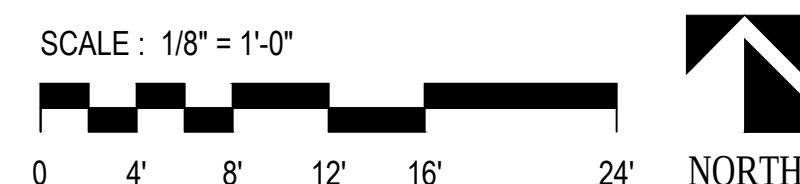
DEMO POWER PLAN

BUILDING 'E'



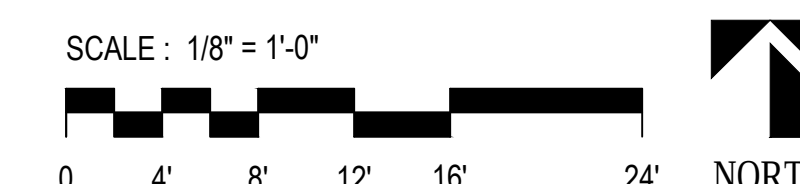
POWER FLOOR PLAN

BUILDING 'E'



POWER FLOOR PLAN

BUILDING 'A'



DEMOLITION REFERENCE NOTES

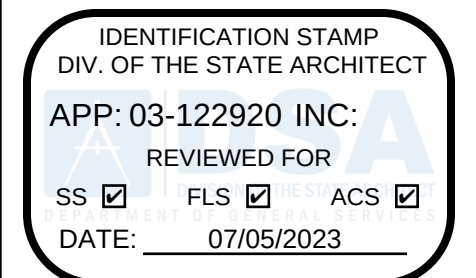
- ① EXISTING PANEL TO BE RELOCATED AND REPLACED. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS TO NEW LOCATION. SAWCUT AND PATCH FLOOR. EXTEND BRANCH CIRCUIT TO NEAREST WALL AND REROUTE TO PANEL AND/ OR PROVIDE J-BOX IN CEILING TO INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS TO NEW LOCATION.
- ② DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICES. REFER TO DEMO NOTES.
- ③ DISCONNECT POWER TO UNIT VENTILATOR. PROVIDE BLANK COVER AND LABEL CIRCUIT BREAKER AS SPARE.

POWER REFERENCE NOTES

- ① POWERED EXHAUST FUSED DISCONNECT.
- ② HP FUSED DISCONNECT.
- ③ PROVIDE TRIM KIT FOR 6" PANEL IN 4" WALL
- ④ CONNECT TO NEAREST RECEPTACLE CIRCUIT.
- ⑤ CONNECT FAN TO EXISTING LIGHTING IN RESTROOM.

DEMOLITION NOTES:

1. REMOVE AND/OR REROUTE AND RECONNECT ANY EXISTING CIRCUITS INTERRUPTED BY DEMOLITION WORK. ALL EXISTING EQUIPMENT THAT IS REMOVED SHALL BE RETURNED TO OWNER.
2. REMOVE AND/OR REROUTE AND RECONNECT ANY EXISTING ELECTRICAL WORK WHICH INTERFERES WITH NEW CONSTRUCTION AS REQUIRED.
3. ALL CONDUITS SHALL BE CONCEALED. WHERE SPECIFICALLY PERMITTED ON JOB, CONDUIT MAY BE RUN EXPOSED AND SHALL BE INSTALLED IN A MANNER TO THE SATISFACTION OF THE ARCHITECT.
4. EXISTING ELECTRICAL OUTLET BOXES AND RACEWAYS, WHERE LOCATED TO BE OF VALUE FOR NEW CONSTRUCTION AND WHERE JUDGED TO BE IN GOOD CONDITION BY THE ARCHITECT, MAY BE REFURBISHED AND REUSED.
5. INSTALL NEW CONDUCTORS WHENEVER EXISTING OUTLET BOXES ON RACEWAYS ARE USED. DO NOT USE EXISTING CONDUCTORS. MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER UNLESS OTHERWISE NOTED.
6. REMOVE CONDUCTORS FROM ANY ABANDONED RACEWAY, BACK TO NEAREST TERMINATION POINT.
7. COORDINATE REMOVAL OF EXISTING LIGHT FIXTURES, OUTLETS, PHONES, ETC., WITH ARCHITECTURAL PLAN.
8. REMOVE EXISTING OUTLET DEVICES AND PLATES REMAINING AND PROVIDE ALL NEW IN EXISTING BOXES AS REQUIRED.
9. COORDINATE WITH OWNER ALL DISRUPTION OF SCHOOL CLOCK, PROGRAM, FIRE ALARM, INTERCOM SYSTEMS AND POWER SERVICE.
10. ALL DEVICES, ETC. IN WALLS TO BE DEMOLISHED SHALL BE DISCONNECTED AND REMOVED, WHETHER INDICATED OR NOT. FIELD VERIFY ALL CONDITIONS PRIOR TO BID.
11. CONTRACTOR SHALL PATCH TO MATCH ALL EXISTING SURFACES TO REMAIN WHICH MAY BE DAMAGED DURING ELECTRICAL DEMOLITION.
12. FLUSH OUT ALL EXISTING DEVICES TO NEW WALL FINISH. REMOVE AND REINSTALL ALL (E)SURFACE RACEWAYS. REFER TO ARCHITECTURAL DRAWINGS, FIELD VERIFY ALL CONDITIONS.
13. REFER TO MECHANICAL PLANS AND DISCONNECT ALL MECHANICAL AND PLUMBING EQUIPMENT TO BE REMOVED. LABEL CIRCUIT BREAKER AS SPARE.

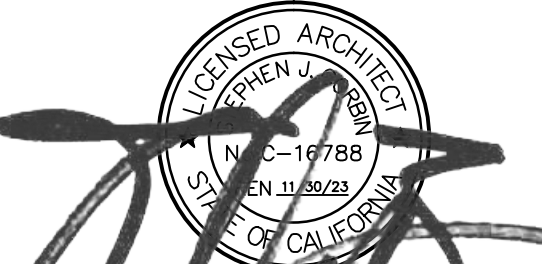
PTN: 63321-389

FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
FOR
2324 VERDE STREET
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

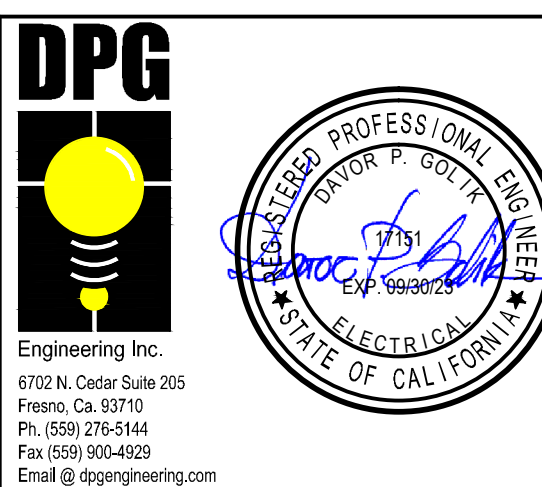


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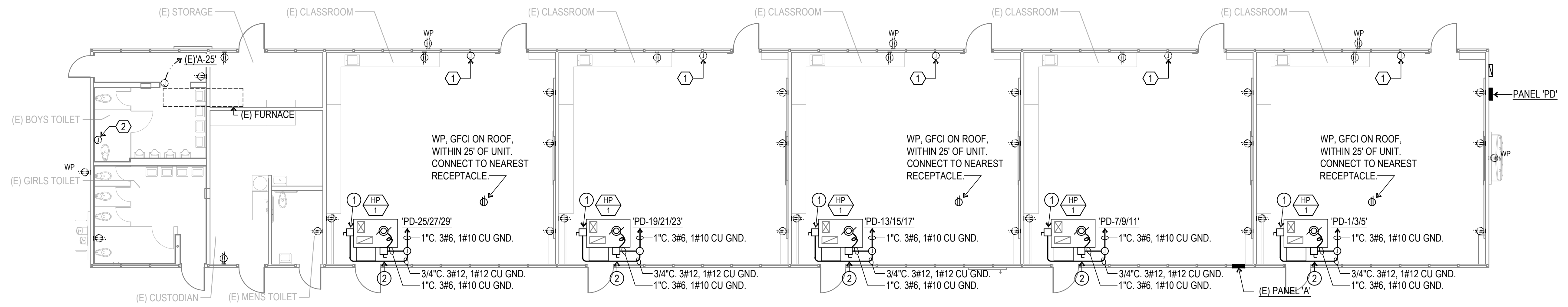


BLDGS A & E
POWER & DEMO
FLOOR PLANS

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.
1317
DRAWN : R.L.M.
CHECKED : D.P.G.
DATE : 12/8/22

3.10
OF SHEETS



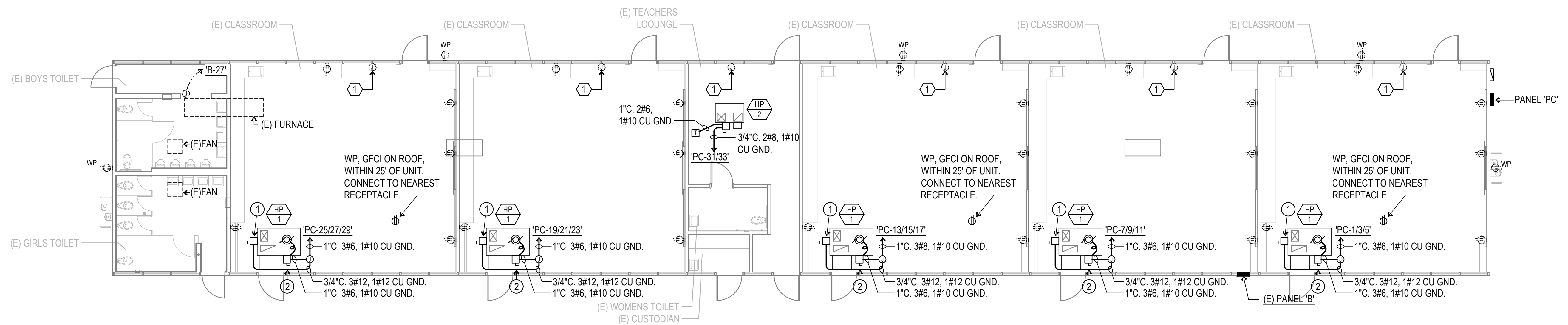
POWER FLOOR PLAN
BUILDING 'D'

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



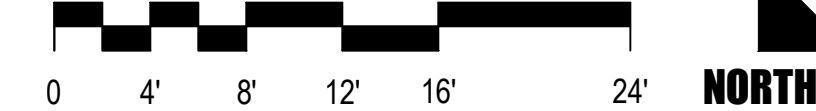
DEMOLITION REFERENCE NOTES

- 1 DISCONNECT POWER TO UNIT VENTILATOR. PROVIDE BLANK COVER AND LABEL CIRCUIT BREAKER AS SPARE.
- 2 DISCONNECT EXISTING HAND DRYER. REMOVE CONDUCTORS BACK TO PANEL. LABEL CIRCUIT BREAKER AS SPARE.



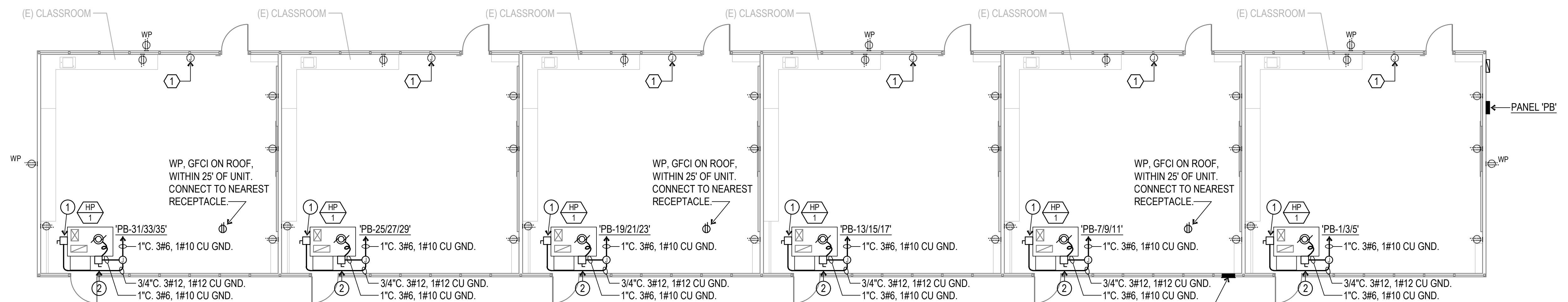
POWER FLOOR PLAN
BUILDING 'C'

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



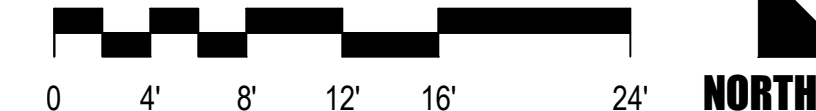
POWER REFERENCE NOTES

- 1 POWERED EXHAUST FUSED DISCONNECT.
- 2 HP FUSED DISCONNECT.



POWER FLOOR PLAN
BUILDING 'B'

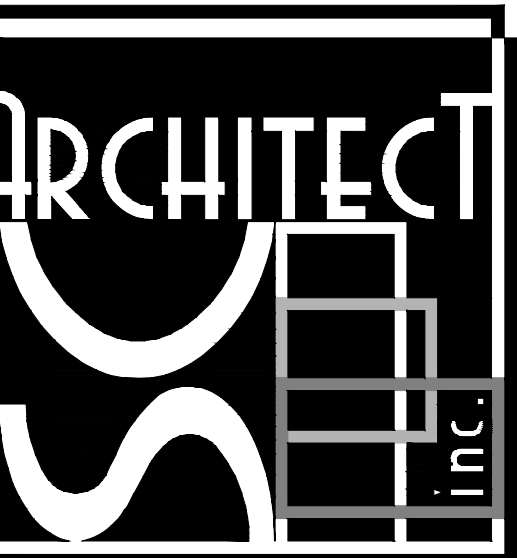
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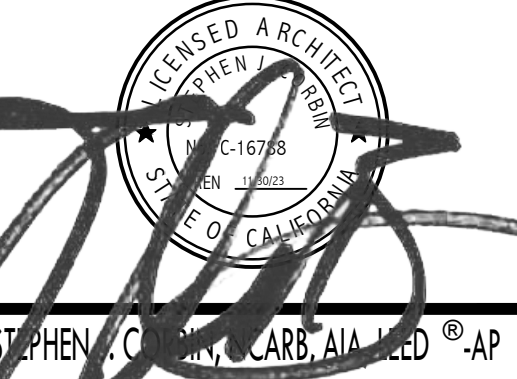
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/05/2023

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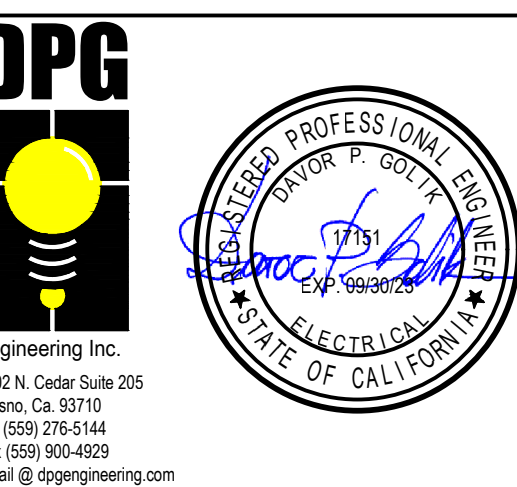
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**BLDGS B,C & D
POWER
FLOOR PLANS**

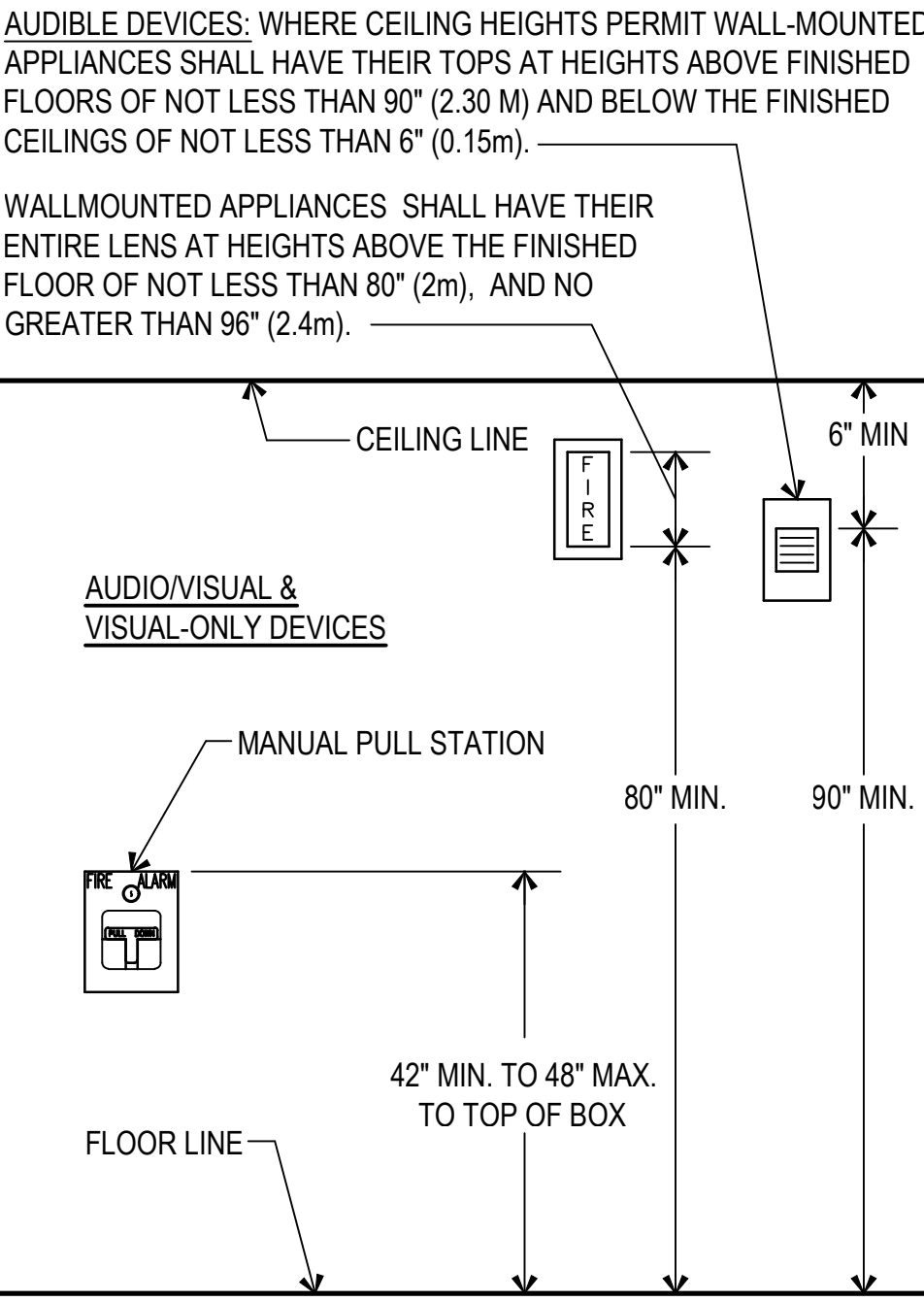
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12/8/22

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OF SHEETS

FIRE DETECTION SYSTEM NOTES:

- ALL WIRING IS SHOWN DIAGRAMMATICALLY. CONTRACTOR MAY VARY SEQUENCE OR CIRCUITRY; HOWEVER, ALL CIRCUITS SHALL BE CONTINUOUS AND SUPERVISED FROM DEVICE TO DEVICE OR FATC TO DEVICE OR FACP TO FATC OR FATC TO FATC. NO PARALLEL BRANCHING SHALL BE ALLOWED. ANY CONNECTION OF ANY BREAK IN ANY CONDUCTOR SHALL BE BY TERMINAL CONNECTION AT A DEVICE OR AT A FATC ONLY.
- ALL CONNECTIONS SHALL BE PROPERLY LABELED BY CONDUCTOR AND SHALL HAVE STAKE ON LUG CONNECTORS. PANDUIT TAG (TIE WRAP) SEPARATE.
- FIRE ALARM TERMINAL CABINETS SHALL HAVE SUFFICIENT SPACE, TERMINAL BOARDS AND SCREW TERMINAL CONNECTORS TO ALLOW CONNECTION OF ALL CONDUCTORS SHOWN. CONTRACTOR SHALL BE REQUIRED TO SUBMIT WITH HIS OTHER SHOP DRAWINGS, DETAILED DRAWINGS OF HIS PROPOSED CONNECTIONS AT EACH FIRE ALARM TERMINAL CABINET PRIOR TO COMMENCING ANY WORK.
- 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. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS AT +48" ABOVE FINISHED FLOOR.
- ALL FIRE ALARM WIRING SHALL BE FPLO FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE #12 & #14 AWG, STRANDED (19 STRANDS OR LESS) COPPER THHN OR THWN OR #16/2 SLC LOOP UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
- 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.
- INSTALLATION OF F.A. EQUIPMENT SHALL BE BY AN AUTHORIZED ENGINEERED SYSTEM DISTRIBUTOR FOR THE EQUIPMENT SPECIFIED BY THE MANUFACTURER FOR SALES, SERVICE, INSTALLATION AND MAINTENANCE. PROVIDE CERTIFICATIONS WITH EQUIPMENT SUBMITTALS. SUBMITTALS BY FIRMS NOT FULFILLING THIS REQUIREMENT WILL BE AUTOMATICALLY REJECTED. INSTALLER SHALL BE NICET LEVEL 3 CERTIFIED. INSTALLATION OF THE SYSTEMS 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. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT / ENGINEER OF THE PROJECT.
- A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION
- WRITTEN CERTIFICATION USING NFPA 72 INSPECTION AND TESTING FORM BY THE FIRE ALARM EQUIPMENT DISTRIBUTOR (OR VENDOR OR MANUFACTURER) SHALL BE SUBMITTED TO DSA (WITH COPIES TO THE ELECTRICAL ENGINEER AND THE ARCHITECT OF RECORD) AND THE INSTALLATION INCLUDES TESTING AND OPERATION THAT CONFORMS IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN C.B.C. SECTION 907.8. THE CONTRACTOR SHALL COMPLETE A FIRE ALARM SYSTEM RECORD AND COMPLETION FORM AND SUBMIT TO DSA.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY AND INSPECTOR OF RECORD. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND OR TESTING.
- THE CERTIFIED INSTALLER WILL BE REQUIRED TO PROVIDE ALL FACTORY WARRANTIES AT THE CLOSE UP OF THE PROJECT.
- SMOKE DETECTORS SHALL BE MOUNTED MINIMUM 36" FROM SUPPLY AND RETURN AIR VENTS PER MANUFACTURER'S RECOMMENDATIONS AND NFPA72, 17.7.4.1.(2016 EDITION WITH SFM AMENDMENTS).
- THE CONTRACTOR SHALL ARRANGE A MEETING WITH F.A. INSTALLER PRIOR TO ROUGH-IN TO COORDINATE THE INSTALLATION.
- AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY CBC 907.6.5. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUIS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.
- ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 DBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5DBA ABOVE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH EVER IS GREATER. MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS PER CFC 907.5.2.1.1. THE FIRE ALARM EVACUATION SIGNAL SHALL SOUND A SYNCHRONIZED THREE PULSE TEMPORAL PATTERN AS DESCRIBED IN NFPA 72 (CBC 907.5.2.1.3 AND NFPA 18.4.2.1.
- THE CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR PULSE TEMPORAL PATTERN PER NFPA 720 5.8.6.5.1
- MICROPHONE ACCESSIBILITY SHALL COMPLY WITH CBC 11B-305 AND 11B-308
- THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED. VISUAL NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED.
- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH STATE FIRE MARSHAL'S REGULATIONS AS ADOPTED AND AMENDED IN THE 2019 EDITION, CBC CHAPTER 35 (CBC SEC. 907.7, 907.8) & NFPA 72, 2016 EDITION.
- PROVIDE ACCESS PANEL FOR ALL ATTIC HEAT DETECTORS LOCATED IN NON-ACCESSIBLE CRAWL OR ATTIC SPACES. SEE ALSO ARCHITECTURAL REFLECTED CEILING PLANS
- ALL BATTERIES SHALL BE STAMPED WITH DATE PUT INTO SERVICE.
- MANUAL PULL STATIONS SHALL NOT REQUIRE TIGHT GRIPPING, OR TWISTING OF THE WRIST TO OPERATE.
- SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH 2019 CBC, 2019 CFC, 2016 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE AND NFPA 720, STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT (2015)
- THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- A DEDICATED BRANCH CIRCUIT 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.
- ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAYOR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
- PROVIDE FIRE WATCH TO COMPLY WITH DSA IRF-2 IF DURING CONSTRUCTION THE FIRE ALARM SYSTEM IS NOT OPERATIONAL AND STUDENTS ARE PRESENT IN CAMPUS.



F.A. DEVICE ELEVATION

FIRE ALARM RECORD DOCUMENTS CABINET
NFPA 72, 7.7.2

- EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR APPROVED LOCATION.
- THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "SYSTEM RECORD DOCUMENTS".
- ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
- CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
- WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNITS, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.

FIRE ALARM DEVICE SEQUENCE OF OPERATION MATRIX

SYSTEM INPUT	AREA SMOKE OR HEAT DETECTORS	CARBON MONOXIDE DETECTOR	SPRINKLER RISER FLOW SWITCH	SPRINKLER RISER TAMPER SWITCH	POWER FAILURE GROUND FAULT	TROUBLE	ELECTRICAL SUPERVISION	MANUAL PULL STATION
SYSTEM OUTPUT								
ANNUNCIATE AT ADMINISTRATION OFFICE	•		•	•	•	•	•	•
ANNUNCIATE AT ADMINISTRATION OFFICE (CARBON MONOXIDE DETECTION)		•						
ACTIVATE AUDIO/VISUAL THRU-OUT CAMPUS	•		•					•
CENTRAL STATION MONITORING	•		•	•	•			•
CLOSE FIRE SMOKE DAMPER	•							
SHUT DOWN HVAC UNIT	•				•			
ACTIVATE VOICE EVACUATION PANEL	•							
ACTIVATE AUDIO ALARM CLASSROOM ONLY		•						

SYSTEM DOCUMENTS AS APPLICABLE :

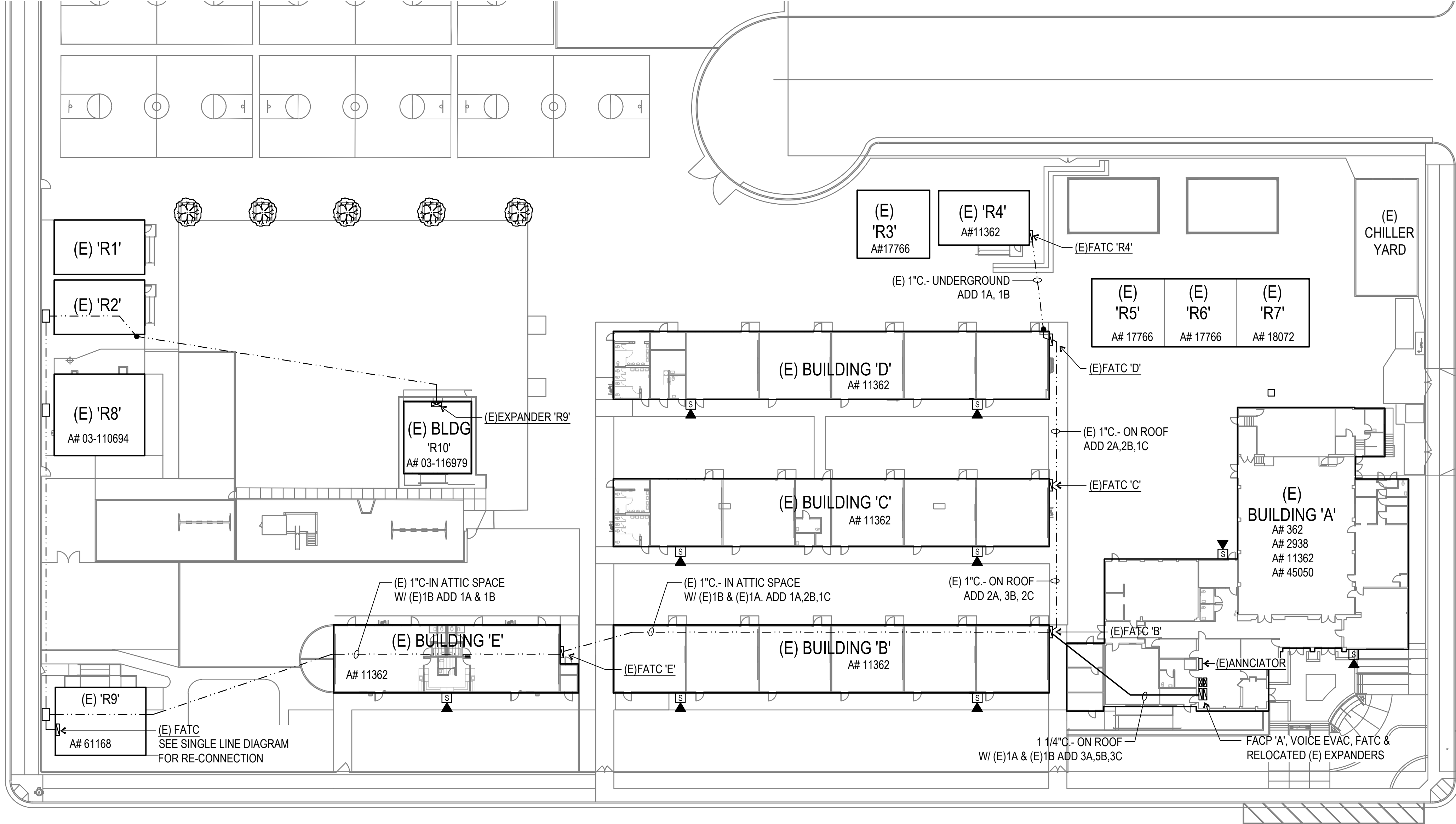
- RECORD DRAWINGS / AS-BUILTS.
- EQUIPMENT CUT SHEETS & CA SFM LISTINGS.
- ALTERNATIVE MEANS AND METHODS.
- PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7).
- SYSTEM RECORD OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2).
- EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8).
- EVALUATION DOCUMENTATION (NFPA 72, 7.3.9).
- RISK ANALYSIS DOCUMENTATION (NFPA 72, 7.3.6).
- SOFTWARE & FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2).

FIRE ALARM ACCEPTANCE TEST

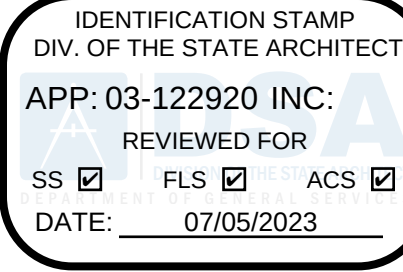
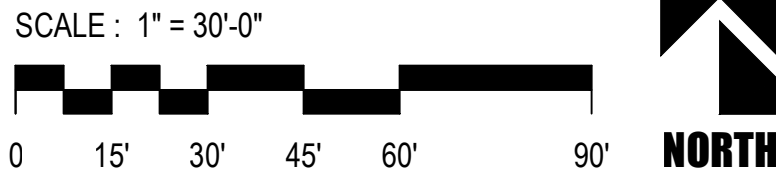
- TESTING OF ALL DEVICES AND APPLIANCES, INCLUDING THE BATTERY -(IES), SHALL BE PERFORMED. ALL MANUFACTURER OPERATING RANGES SHALL BE MET.
- INSPECTION TESTING AND MAINTENANCE OF SYSTEMS, THEIR INITIATING DEVICES AND NOTIFICATION APPLIANCES SHALL COMPLY WITH CHAPTER 14 OF NFPA 72 AND DOCUMENTATION WITH NFPA 72, CHAPTER 7.
- TESTING OF THE SUPERVISING STATION SIGNALS, AS WELL AS RELAY TO THE APPROPRIATE RESPONDING AGENCY, SHALL BE INCLUDED IN THE ACCEPTANCE TESTING. THE PROJECT INSPECTOR SHALL WITNESS THE ACCEPTANCE INSPECTION AND SHALL SIGN AS THE AHJ REPRESENTATIVE ON THE "SYSTEM RECORD OF COMPLETION" AT SECTION 12.31 [NFPA 72, FIGURE 7.8.2(a)], AND THE "SYSTEM RECORD OF INSPECTION AND TESTING" AT SECTION 10.1 [NFPA 72, FIGURE 7.8.2 (g)].
- ALL SUPPLEMENTARY RECORDS SHALL BE ATTACHED AS APPLICABLE. THE PROJECT INSPECTOR SHALL VERIFY THAT THE FIRE ALARM SYSTEM IS IN SERVICE PRIOR TO COMPLETION OF THE "SYSTEM RECORD OF COMPLETION" FORM.
- ALL ORIGINAL DOCUMENTATION SHALL BE RETAINED IN THE REQUIRED DOCUMENTATION CABINET. (NFPA 72, 7.7.2).

FIRE ALARM SYMBOL SCHEDULE

SYMBOL	NAME	DESCRIPTION	CSFM #
(E) ———	EXISTING ITEM		
U.O.N. ———	UNLESS OTHERWISE NOTED	34°C MIN U.O.N.	
— — — — —	WIRING UNDERGROUND OR IN WALL		
- - - - -	EXISTING CONDUIT TO REMAIN		
FACP ———	FIRE ALARM CONTROL PANEL WITH MEDIA GATEWAY CARD & DIALER	HOCHIKI # FIRENET L@TTITUDE HOCHIKI # 5788	7165-0410.0506
EXP ———	FIRE ALARM EXPANDER PANEL	HOCHIKI # FN-642-ULADA	7315-0410.0166
— — — — —	FIRE ALARM TC	24"X18"VWX4D	
ANN ———	(E) FIRE ALARM ANNUNCIATOR	HOCHIKI #FN-LCD-S	7120-0410.0165
EVAC ———	FIRE ALARM VOICE EVACUATION AMPLIFIER	HOCHIKI #EVAX-100	6911-0410.0176
A ———	ATTIC HEAT DETECTOR WITH BASE PROVIDE ACCESS PANEL IN HARD LID AREAS	HOCHIKI #ATJ-EA BASE #YBN-NSA-4	7270-0410.0203
Ⓢ ———	PHOTOELECTRIC SMOKE DETECTOR WITH BASE	HOCHIKI #ALN-V BASE #HSB-NSA-6	7272-0410.0204
SC Ⓢ CO ———	MULTI CRITERIA (CO) DETECTOR WITH BASE	HOCHIKI #ACD-V SOUNDER BASE #ASBL	7275-0410.0503
Ⓢ CO ———	ADDRESSABLE SUPERVISED OUTPUT MODULE	HOCHIKI #DCP-R2ML-I	7300-0410.0150
Ⓢ xW ———	F.A. SPEAKER / STROBE (CEILING MTD.) xW = WATTAGE C = CEILING MOUNTED, (MC)cd= MULTI-CANDELA SETTINGS	HOCHIKI #HSSPKCLPW (SEE PLANS FOR SETTINGS)	7320-0410.0194
Ⓢ xW ———	F.A. SPEAKER / STROBE (WALL MTD.) xW = WATTAGE W = WALL MOUNTED, (MC)cd= MULTI-CANDELA SETTINGS	HOCHIKI #HSSPK24WLR (SEE PLANS FOR SETTINGS)	7320-0410.0195
Ⓢ C ———	F.A. VISUAL (CEILING MTD.) C = CEILING MTD + cdf MULTI-CANDELA SETTINGS	HOCHIKI #HCS24PCW (SEE PLANS FOR SETTINGS)	7125-0410.0188
Ⓢ W ———	F.A. VISUAL (WALL MTD.) W = WALL MTD + cdf MULTI-CANDELA SETTINGS	HOCHIKI #HES3-24WR (SEE PLANS FOR SETTINGS)	7320-0410.0188
Ⓢ xW ———	FIRE ALARM EXTERIOR SPEAKER (WALL MTD.) xW = WATTAGE	GENTEX #WVSPKR (SEE PLANS FOR SETTINGS)	7320-0669.0141
— — — — —	END-OF-LINE RESISTOR	PER MANUFACTURER SPECIFICATION	

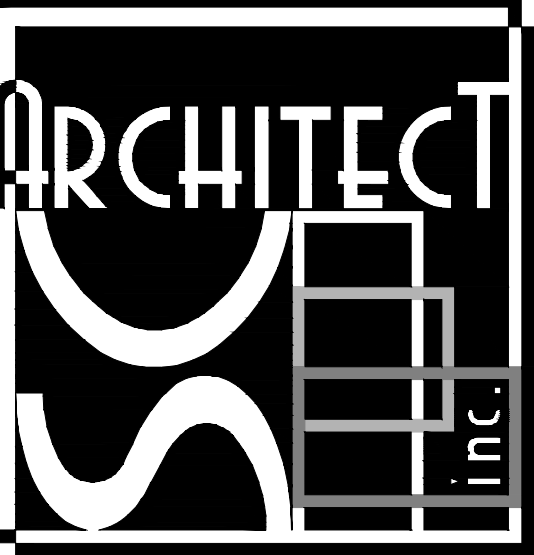


FIRE ALARM SITE PLAN

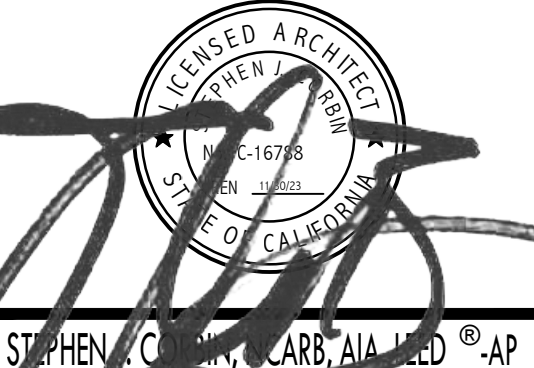


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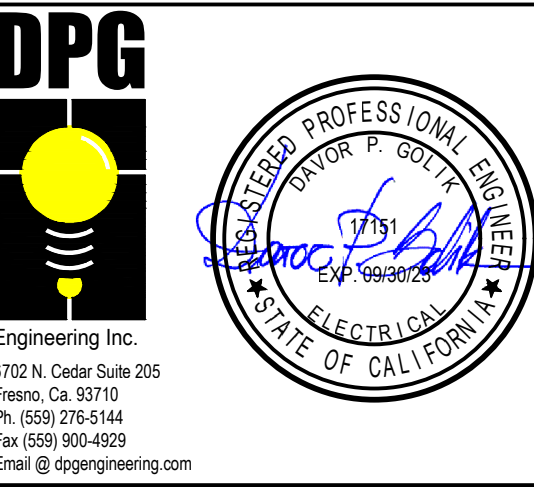
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F.A. SITE PLAN,
SYMBOL LEGEND,
DETAILS, NOTES
AND SCHEDULES

MARK	DATE	REVISIONS
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JOB NO.
1317
DRAWN:
R.L.M.
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D.P.G.
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12/8/22



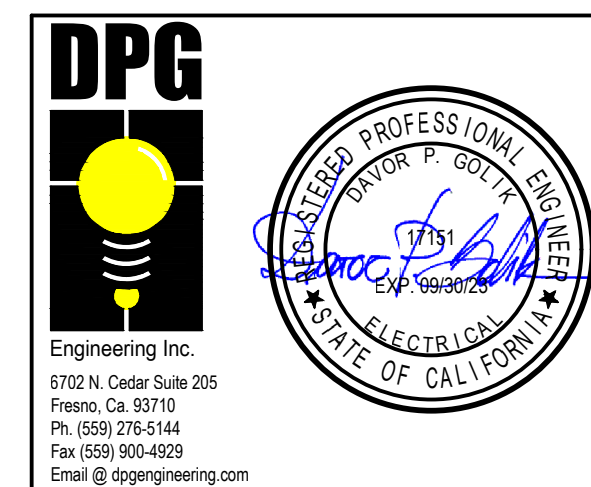
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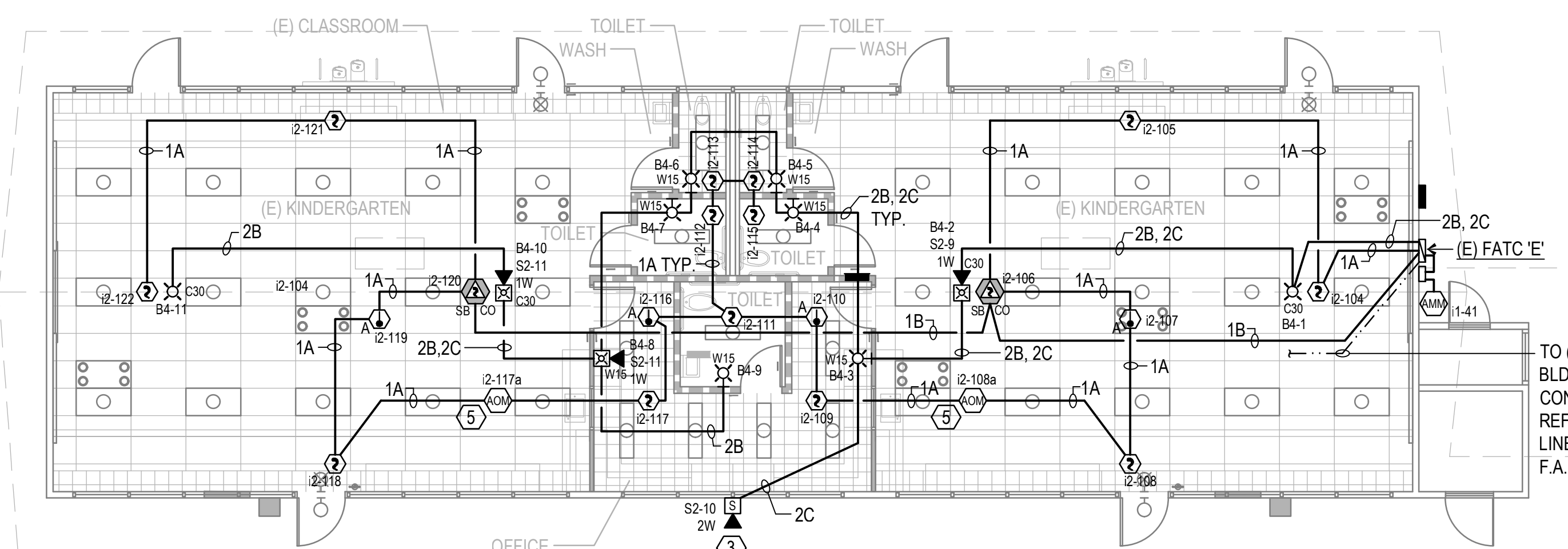
BLDGS A & E
FIRE ALARM
FLOOR PLANS
AND NOTES

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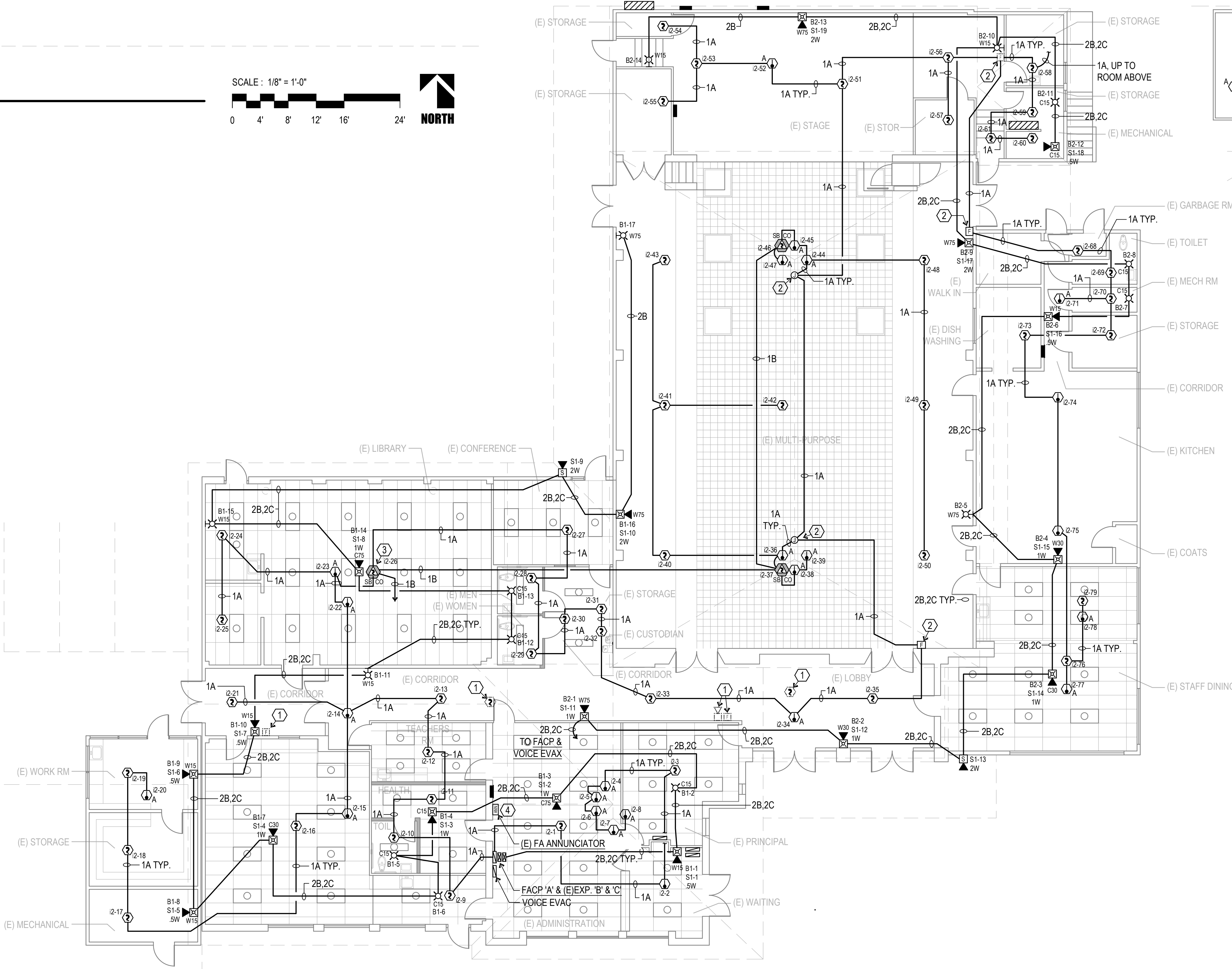
REFERENCE NOTES

- 1 REMOVE EXISTING FIRE ALARM DEVICE. REMOVE UNUSED CONDUIT AND WIRING. PATCH AS REQUIRED.
- 2 REMOVE EXISTING FIRE ALARM DEVICE. ADD JUNCTION BOX AND REUSE EXISTING CONDUIT AS REQUIRED.
- 3 EXISTING DEVICE LOCATION. REPLACE WITH NEW DEVICE AS SHOWN.
- 4 RE-CONNECT TO EXISTING FIRE ALARM FACP, PER SINGLE LINE DIAGRAM.
- 5 RELAY AT AC UNIT 'HP-3', FOR AUTOMATIC SHUT OFF PER CMC 608.



FIRE ALARM FLOOR PLAN
BUILDING 'E'

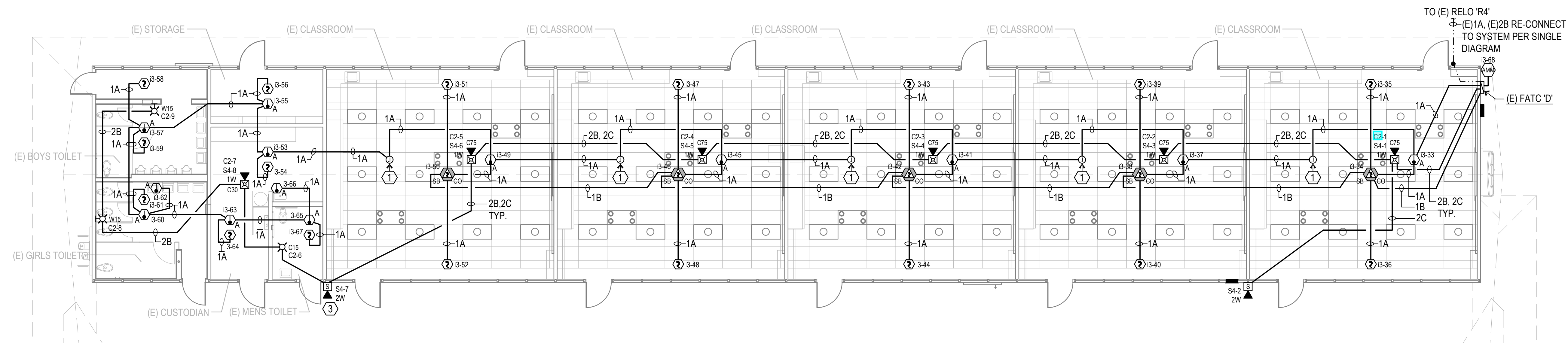
SCALE: 1/8" = 1'-0"
0 4' 8' 12' 16' 24'
NORTH



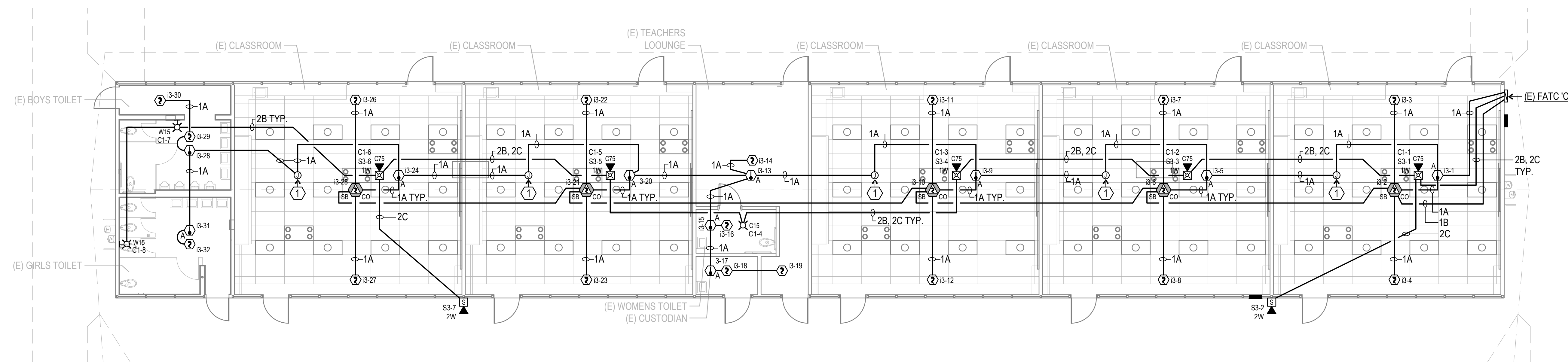
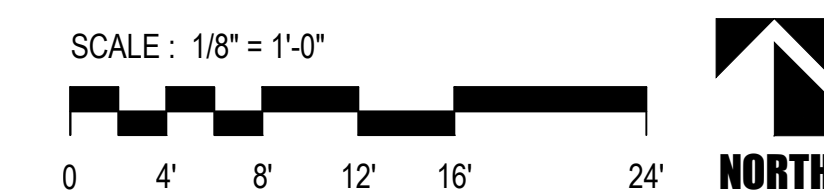
FIRE ALARM FLOOR PLAN
BUILDING 'A'

RFI CON-026 | Sheets: E4.10
FIRE ALARM ENGINEERING -
EXISTING CONDITION DISCREPANCIES
PER RFI-026 (06/06/25)

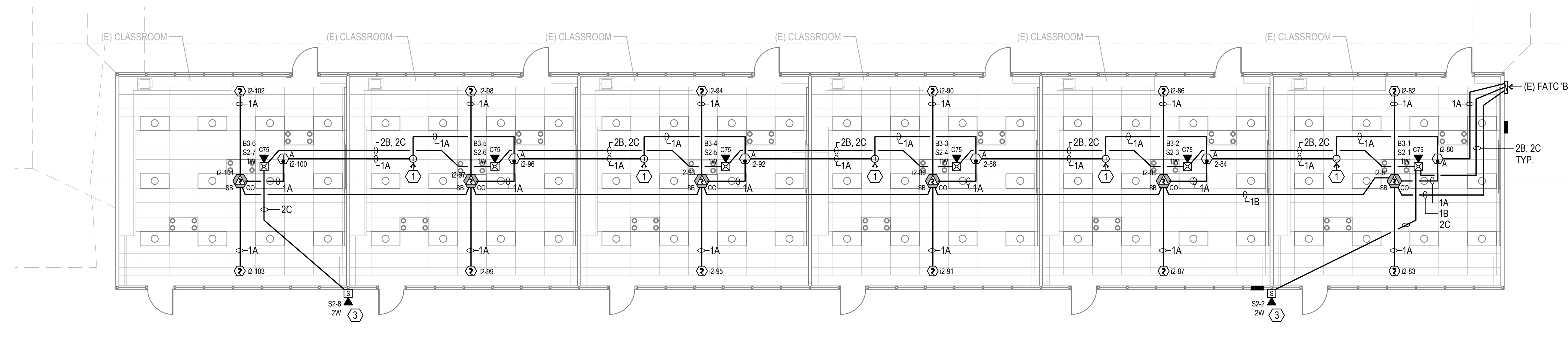
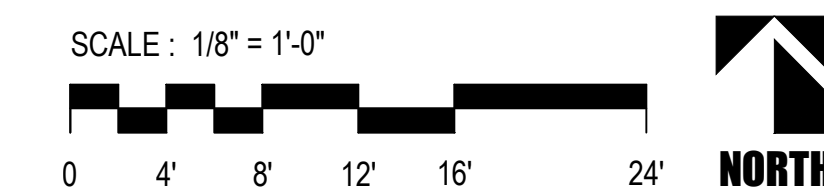
SCALE: 1/8" = 1'-0"
0 4' 8' 12' 16' 24'
NORTH



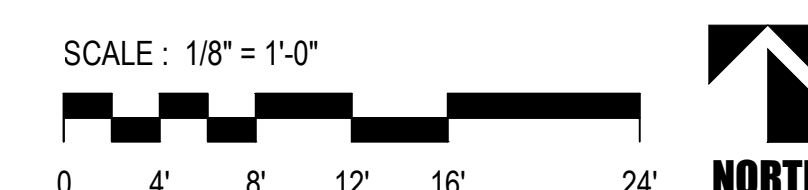
FIRE ALARM FLOOR PLAN
BUILDING 'D'



FIRE ALARM FLOOR PLAN
BUILDING 'C'



FIRE ALARM FLOOR PLAN
BUILDING 'B'



REFERENCE NOTES

- REMOVE EXISTING FIRE ALARM DEVICE. IF NECESSARY, ADD JUNCTION BOX AND REUSE EXISTING CONDUIT AS REQUIRED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC.
REVIEWED FOR
SS FLS ACS
DATE: 07/05/2023

PTN: 63321-389 FILE: 15-6

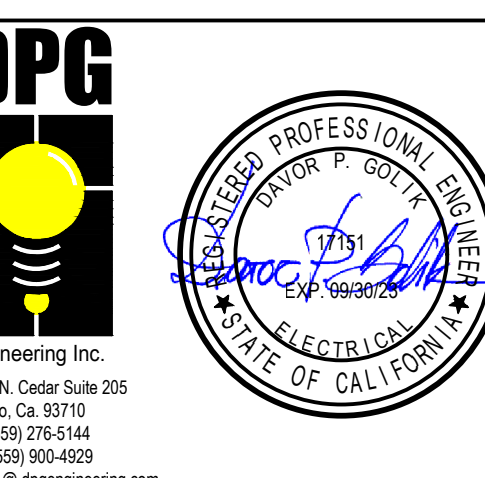
**ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION**
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
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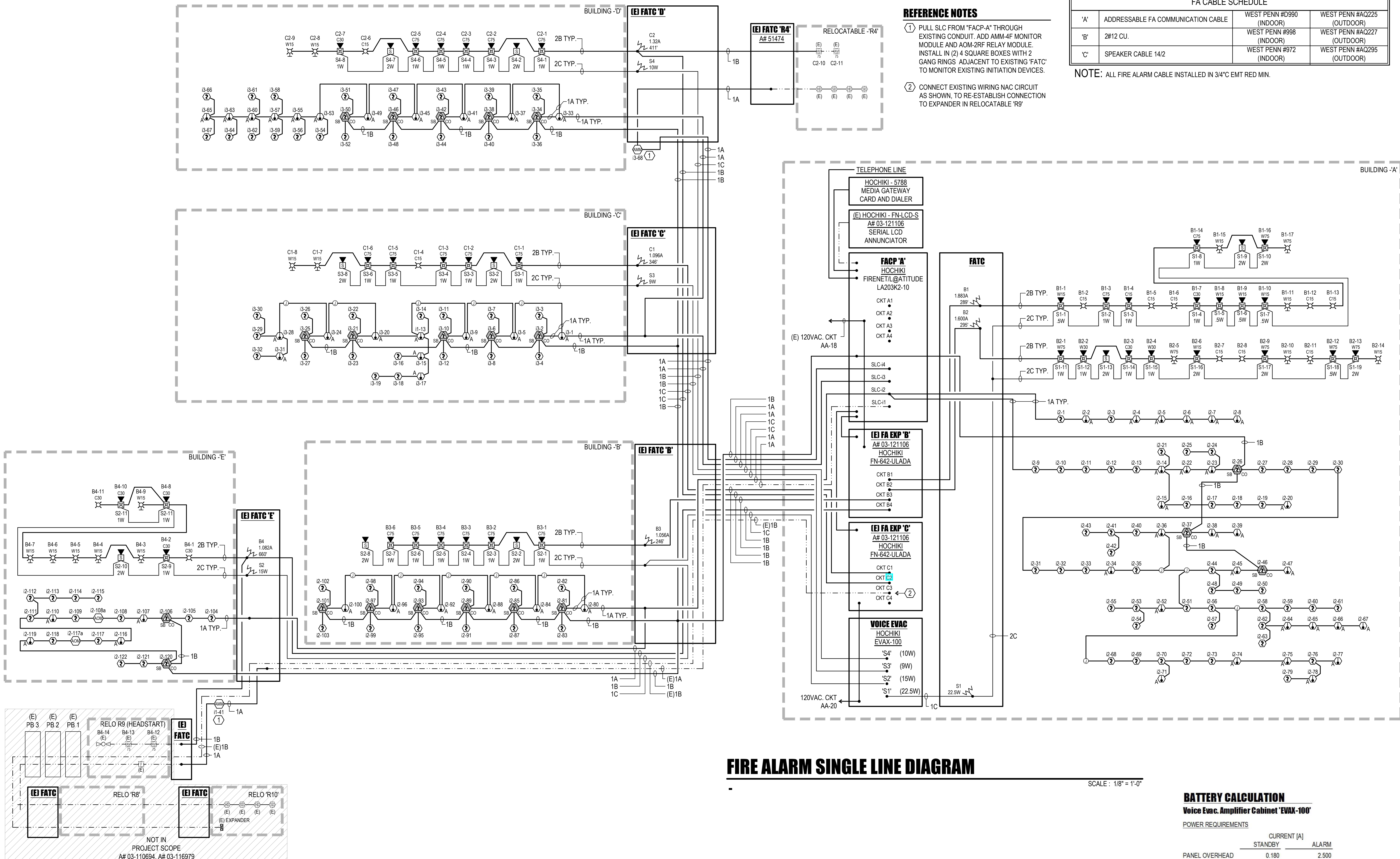


**BLDGS B,C & D
FIRE ALARM
FLOOR PLANS**

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.
1317
DRAWN BY
R.L.M.
CHECKED BY
D.P.G.
DATE
12/8/22

4.20
OF SHEETS



FIRE ALARM SINGLE LINE DIAGRAM

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

FACP BATTERY CALCULATION

Fire Alarm Control Panel

"FACP A"

POWER REQUIREMENTS

	CURRENT [A]	
PANEL OVERHEAD	1.095	ALARM
2 EXPANDER PNL	0.130	
TWO FULL SLC LOOPS	0.114	0.140
NAC CIRCUITS SUMMARY	-	0.000
TOTALS	1.339	1.485

BATTERY CAPACITY

SUPERVISORY POWER	= 24 Hr * 1.339A =	32.136 Ahr
ALARM POWER	= 0.25 Hr * 1.485A =	0.371 Ahr
TOTAL POWER REQUIREMENT =		32.507 Ahr
WITH 20% SAFETY FACTOR =		39.009 Ahr
MINIMUM BATTERY CAPACITY =		55 Ahr
USE NOTIFIER BATTERIES (2) BAT-1250-BP		

NOTE:
1. PRIOR TO START OF CONSTRUCTION, PERFORM BATTERY TEST AND PROVIDE REPORT TO EOR. INCLUDE IN REPORT, EXISTING SUPERVISORY AND ALARM CURRENT.
2. PROVIDE BATTERY BOX AS REQUIRED

NAC EXTENDER BATTERY CALCULATION

Extender Panel

"B"

POWER REQUIREMENTS

	CURRENT [A]	
PANEL OVERHEAD	0.065	ALARM
NAC CIRCUITS	-	5.621
TOTALS	0.065	5.766

BATTERY CAPACITY

SUPERVISORY POWER	= 24 Hr * 0.065A =	1.560 Ahr
ALARM POWER	= 0.25 Hr * 5.766A =	1.442 Ahr
TOTAL POWER REQUIREMENT =		3.002 Ahr
WITH 20% SAFETY FACTOR =		3.602 Ahr
MINIMUM BATTERY CAPACITY =		5 Ahr
USE NOTIFIER BATTERIES (2) BAT-1250-BP		

NOTE: PROVIDE BATTERY BOX AS REQUIRED

VOLTAGE DROP CALCULATION

NAC Circuit "B1"

VD = Voltage Drop [V]
I = Current [A] (1.883A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (289)
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)
 $VD = K * I * L = 11 * 1.883 * 2 * 289 = 1.833 V$
CM 6530
VD% = $\frac{VD}{V} = 9.0\%$
20.4

VOLTAGE DROP CALCULATION

NAC Circuit "B3"

VD = Voltage Drop [V]
I = Current [A] (1.056A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (246)
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)
 $VD = K * I * L = 11 * 1.056 * 2 * 246 = 0.875 V$
CM 6530
VD% = $\frac{VD}{V} = 4.3\%$
20.4

VOLTAGE DROP CALCULATION

NAC Circuit "B2"

VD = Voltage Drop [V]
I = Current [A] (1.6A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (295)
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)
 $VD = K * I * L = 11 * 1.6 * 2 * 295 = 1.590 V$
CM 6530
VD% = $\frac{VD}{V} = 7.8\%$
20.4

VOLTAGE DROP CALCULATION

NAC Circuit "B4"

VD = Voltage Drop [V]
I = Current [A] (1.082A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (660)
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)
 $VD = K * I * L = 11 * 1.082 * 2 * 660 = 2.406 V$
CM 6530
VD% = $\frac{VD}{V} = 11.8\%$
20.4

NAC EXTENDER BATTERY CALCULATION

Extender Panel

"C"

POWER REQUIREMENTS

	CURRENT [A]	
PANEL OVERHEAD	0.065	ALARM
NAC CIRCUITS	-	2.416
TOTALS	0.065	2.561

BATTERY CAPACITY

SUPERVISORY POWER	= 24 Hr * 0.065A =	1.560 Ahr
ALARM POWER	= 0.25 Hr * 2.561A =	0.640 Ahr
TOTAL POWER REQUIREMENT =		2.200 Ahr
WITH 20% SAFETY FACTOR =		2.640 Ahr
MINIMUM BATTERY CAPACITY =		5 Ahr
USE NOTIFIER BATTERIES (2) BAT-1250-BP		

NOTE: PROVIDE BATTERY BOX AS REQUIRED

VOLTAGE DROP CALCULATION

NAC Circuit "C1"

VD = Voltage Drop [V]
I = Current [A] (1.32A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (346)
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)
 $VD = K * I * L = 11 * 1.32 * 2 * 346 = 1.278 V$
CM 6530
VD% = $\frac{VD}{V} = 6.3\%$
20.4

VOLTAGE DROP CALCULATION

NAC Circuit "C2"

VD = Voltage Drop [V]
I = Current [A] (1.32A)
K = 11 (Copper Constant)
L = Distance to Load [ft.] (411)
CM = Circular Mils (#12 AWG = 6530)
V = Voltage [V] (24VDC)
 $VD = K * I * L = 11 * 1.32 * 2 * 411 = 1.828 V$
CM 6530
VD% = $\frac{VD}{V} = 9.0\%$
20.4

BATTERY CALCULATION

Voice Evac. Amplifier Cabinet "EVAX-100"

POWER REQUIREMENTS

	CURRENT [A]	
PANEL OVERHEAD	0.180	ALARM
SPEAKER LOAD	-	2.500
TOTALS	0.180	5.844

BATTERY CAPACITY

SUPERVISORY POWER	= 24 Hr * 0.180A =	4.320 Ahr
SPEAKER LOAD	= 0.25 Hr * 5.844A =	1.461 Ahr
TOTAL POWER REQUIREMENT =		5.781 Ahr
WITH 20% SAFETY FACTOR =		6.937 Ahr
MINIMUM BATTERY CAPACITY =		7 Ahr
USE NOTIFIER BATTERIES (2) BAT-1270-BP		

NOTE: PROVIDE BATTERY BOX AS REQUIRED

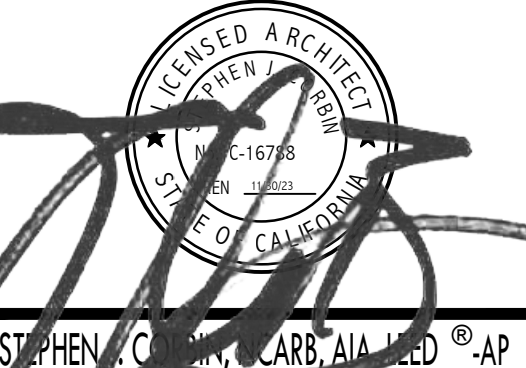
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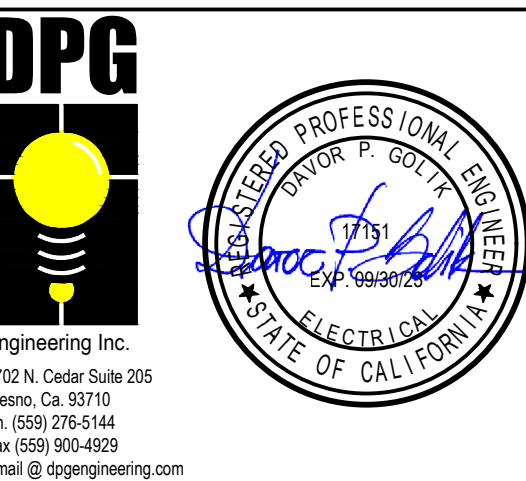
ROOSEVELT ELEMENTARY SCHOOL
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FIRE ALARM
SINGLE LINE
DIAGRAM

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.
1317
DRAWN:
R.L.M.
CHECKED:
D.P.G.
DATE:
12/8/22
4.30
OF SHEETS

Luminaire							
Name	Type Description	Lamp Type	Watts per fixture	Manufacturer	Model Number	Mounting	Notes
A	2 X 4 LED	LED	35	ABL - LITHONIA	2BLT4 48LHE ADPT EZ1 LP840 N100	T-BAR	
Ae	2 X 4 LED	LED	35	ABL - LITHONIA	2BLT4 48LHE ADPT EZ1 E10WLCP LP840 N100	T-BAR	EMERGENCY BATTERY BACK UP
B	1 X 4 STRIP	LED	25	ABL - LITHONIA	GLXL48 4000 LM HEF ROL SPD MVOLT EZ1 40K 80 CRITHCLX N100	SURFACE	
X	EXT	LED	1	ABL - LITHONIA	LHQM LED R H O R O	WALL	
X1	REMOTE HEAD	LED	1	ABL - LITHONIA	ELA SD QWP L0309	WALL	

[illegible]

VOLTAGE DROP CALCULATIONS													
VD (3 PHASE) = (1.73 * K * I * D) / CM		1.73	K	I	D	Wire Size	CM	VD	%@480	%@208			
PANEL PD	1.73	12	320	200	1328640	600 Kcmil	600000	2.2	0.5	1.1			
PANEL PC	1.73	12	160	80	265728	3/0	167800	1.6	0.3	0.8			
PANEL PB	1.73	12	240	330	1644192	350 Kcmil	350000	4.7	1.0	2.3			
PANEL PE	1.73	12	80	260	431808	#4	41740	10.3	2.2	5.0			
	1.73	12			0			#DIV/0!	#DIV/0!	#DIV/0!			
	1.73	12			0			#DIV/0!	#DIV/0!	#DIV/0!			
	1.73	12			0			#DIV/0!	#DIV/0!	#DIV/0!			
	1.73	12			0			#DIV/0!	#DIV/0!	#DIV/0!			
	1.73	12			0			#DIV/0!	#DIV/0!	#DIV/0!			
	1.73	12			0			#DIV/0!	#DIV/0!	#DIV/0!			
VD (1 PHASE) = (2 * K * I * D) / CM		2	K	I	D		CM	VD	%@480	%@208	%@120	%@277	%@230
RECEPTACLE CIRCUIT 1A-18	2	12			0	12	6530	0.0	0.0	0.0	0.0	0.0	0.0
K = 12 COPPER loaded +50% K = AL loaded +50% D = DISTANCE CM = CIRCULAR MILS I = CURRENT													

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)(2) for alterations.

Project Name: ROOSEVELT ELEMENTARY SCHOOL MODERNIZATION

Report Page: Page 1 of 4

Project Address: BAKERSFIELD

Date Prepared: 11-1-22

A. GENERAL INFORMATION

01 Project Location (city) BAKERSFIELD

02 Occupancy Types Within Project:

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/ Motel ☒ School ☐ Support Areas

☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare Facilities ☐ Other (Write In):

B. PROJECT SCOPE

Table Instructions: Include any electrical service systems that are within the scope of the permit application.

01	02	03	04	05	06
Electrical Service Designation/ Description	Scope of Work ¹	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) ²	System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.
EXISTING	Add/Alt to feeders and branch circuits only		☐	☐	

¹ FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.
² Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

C. COMPLIANCE RESULTS

Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D, for guidance and review the Table that indicates "No".

01	02	03	04	05			
Service Electrical Metering §130.5(a)	AND	Separation for Monitoring §130.5(b)	AND	Voltage Drop §130.5(c)	AND	Controlled Receptacles §130.5(d)	05
(See Table F)		(See Table G)		(See Table H)		(See Table I)	Compliance Results
	AND		AND	Yes	AND		COMPLIES

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

Project Name: ROOSEVELT ELEMENTARY SCHOOL MODERNIZATION

Report Page: Page 3 of 4

Project Address: BAKERSFIELD

Date Prepared: 11-1-22

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/.

YES	NO	Form/Title	Field Inspector
☒	☐	NRCC-ELC-01-E - Must be submitted for all buildings.	Pass ☐ Fail ☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

Project Name: ROOSEVELT ELEMENTARY SCHOOL MODERNIZATION

Report Page: Page 2 of 4

Project Address: BAKERSFIELD

Date Prepared: 11-1-22

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This Section Does Not Apply

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This Section Does Not Apply

H. VOLTAGE DROP

Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)(2)Pii.

01	02	03	04	05
Electrical Service Designation/ Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations ¹	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector
EXISTING	☒ Voltage drop < 5% ☐ Permitted by CA Elec Code (Exception to §130.5(c)) ¹	In construction documents	E5.00	Pass ☐ Fail ☐

¹NOTES: If "Permitted by CA Elec Code" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.
²FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

Project Name: ROOSEVELT ELEMENTARY SCHOOL MODERNIZATION

Report Page: Page 4 of 4

Project Address: BAKERSFIELD

Date Prepared: 11-1-22

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: DAVOR P. GOLIK P.E.

Documentation Author Signature:

Company: DPG ENGINEERING

Signature Date: 11-1-22

Address: 6702 N CEDAR

CEA/ HERS Certification Identification (if applicable):

City/State/Zip: FRESNO CA 93710

Phone: 559 276 5144

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: DAVOR P. GOLIK P.E.

Responsible Designer Signature:

Company: DPG ENGINEERING

Date Signed: 11-1-22

Address: 6702 N CEDAR

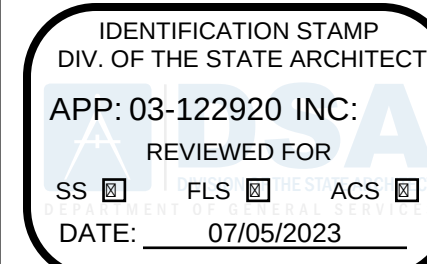
License: E17151

City/State/Zip: FRESNO CA 93710

Phone: 559 276 5144

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

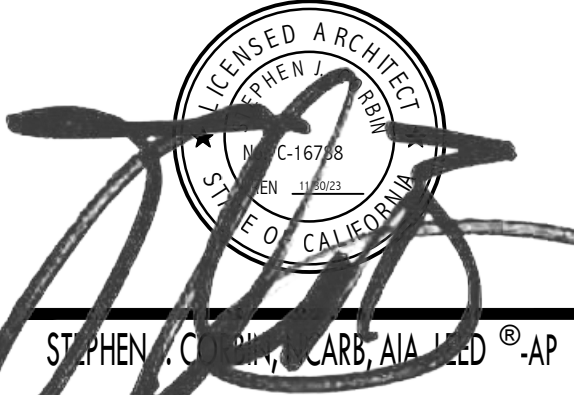


PTN: 63321-389 FILE: 15-6

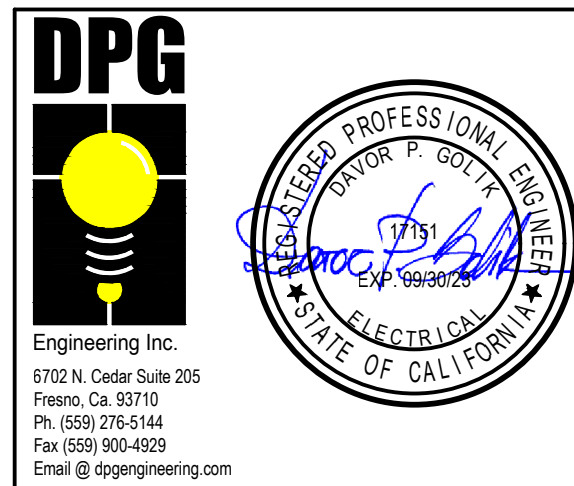
ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
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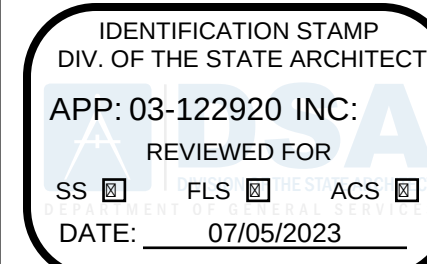


NRCC REPORT

MARK	DATE	REVISIONS
△		
△		
△		

JOB NO.
1317
DRAWN:
R.L.M.
CHECKED:
D.P.G.
DATE:
12/8/22

6.00
OF SHEETS



PTN: 63321-389 FILE: 15-6

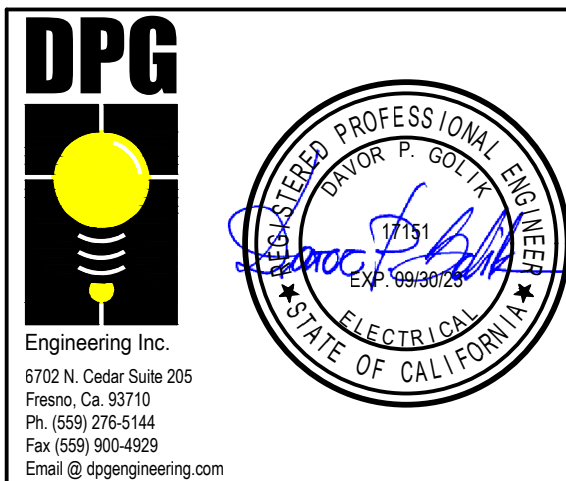
ROOSEVELT ELEMENTARY SCHOOL
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2324 VERDE STREET
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CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.



TITLE 24 REPORT
BUILDING 'A'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.
1317
DRAWN BY
R.L.M.
CHECKED BY
D.P.G.
DATE
12/8/22
7.00
OF SHEETS

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

CERTIFICATE OF COMPLIANCE
Project Name: BUILDING A ROOSEVELT
Project Address: 2324 VERDE STREET
Report Page: (Page 3 of 8)
Date Prepared: 11/3/2022

F. INDOOR LIGHTING FIXTURE SCHEDULE
Table with 8 columns: 8, 25 WATT LED, No, No, 25, CEC Default, 5, No, 125, 2,295. Total Designed Watts: 2,295.
FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)(4B) is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.
Building Level Controls
Table with 3 columns: 01, 02, 03. 01: Mandatory Demand Response §110.12(c). 02: Shut-off controls §130.1(c). 03: Field Inspector. Pass/Fail.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

CERTIFICATE OF COMPLIANCE
Project Name: BUILDING A ROOSEVELT
Project Address: 2324 VERDE STREET
Report Page: (Page 2 of 8)
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C. COMPLIANCE RESULTS
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D for guidance.
Table with 10 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10. 01: Complete Building §140.6(c)(1). 02: Area Category §140.6(c)(2). 03: Area Category Additional §140.6(c)(3). 04: Tailored §140.6(c)(3) (+). 05: Total Allowed (Watts). 06: Total Designed (Watts). 07: PAF Lighting Control Credits §140.6(c)(4). 08: Total Adjusted (Watts) *Includes Adjustments. 09: Compliance Results. 10: 05 must be >= 08 §140.6.
Conditioned: 2,716, 0, 2,716, 2,295, 0, 2,295. Unconditioned: 2,716, 0, 2,716, 2,295, 0, 2,295. Controls Compliance (See Table H for Details): COMPLIES. Rated Power Reduction Compliance (See Table Q for Details): COMPLIES.

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE
This table includes all permanent designed lighting and all portable lighting in offices.
Designed Wattage: Conditioned Spaces
Table with 10 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10. 01: Name or Item Tag. 02: Complete Luminaire Description. 03: Modular (Track) Fixture. 04: Small Aperture & Color Change*. 05: Watts per luminaire*. 06: How is Wattage determined. 07: Total Number of Luminaires. 08: Excluded per §140.6(a)(3). 09: Design Watts. 10: Field Inspector. Pass/Fail.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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Registration Provider: Energysoft
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STATE OF CALIFORNIA
Indoor Lighting
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CERTIFICATE OF COMPLIANCE
Project Name: BUILDING A ROOSEVELT
Project Address: 2324 VERDE STREET
Report Page: (Page 1 of 8)
Date Prepared: 11/3/2022

A. GENERAL INFORMATION
01 Project Location (city): BAKERSFIELD
02 Climate Zone: 13
03 Occupancy Types Within Project (select all that apply):
☒ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☒ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☒ Other (Write in): See Table I

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)(2) for alterations.
Table with 5 columns: 01, 02, 03, 04, 05. 01: Scope of Work. 02: Conditioned Spaces. 03: Unconditioned Spaces. 04: Calculation Method. 05: Area (ft²).
My Project Consists of (check all that apply):
☒ New Lighting System
☐ New Lighting System - Parking Garage
Total Area of Work (ft²): 4179, 0.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)
Area Level Controls
Table with 12 columns: 04, 05, 06, 07, 08, 09, 10, 11, 12. 04: Area Description. 05: Complete Building or Area Category Primary Function Area. 06: Area Controls §130.1(a). 07: Multi-Level Controls §130.1(b). 08: Shut-Off Controls §130.1(c). 09: Primary/Skylight Daylighting §130.1(d). 10: Secondary Daylighting §140.6(d). 11: Interlocked Systems §140.6(a)(1). 12: Field Inspector. Pass/Fail.
OFFICE: Office greater than 250 square feet. Manual ON/OFF. Dimmer. Occupancy Sensor. Included. Included. No. Pass. Fail.
LOUNGE: Lounge Breakroom or Waiting Area. Manual ON/OFF. Dimmer. Occupancy Sensor. Included. N/A. No. Pass. Fail.
LIBRARY: Library Reading Area. Manual ON/OFF. Dimmer. Occupancy Sensor. N/A. N/A. No. Pass. Fail.
STORAGE: All Other Space Types. Manual ON/OFF. Dimmer. Occupancy Sensor. Included. Included. No. Pass. Fail.
TOILET: Restrooms. Manual ON/OFF. Exempt*. Occupancy Sensor. N/A. N/A. No. Pass. Fail.
CONFERENCE: Convention, Conference, Multipurpose and Meeting Center Areas. Manual ON/OFF. Dimmer. Occupancy Sensor. N/A. N/A. No. Pass. Fail.
HALL: Corridor Area. Manual ON/OFF. Exempt*. Occupancy Sensor. N/A. N/A. No. Pass. Fail.
*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX. Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)(2).
TOILET: MULTI LEVEL CONTROL NOT REQUIRED IN RESTROOMS
HALL: MULTI LEVEL CONTROL NOT REQUIRED IN CORRIDOR
Plan Sheet Showing Daylit Zones: E2.30

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
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STATE OF CALIFORNIA
Indoor Lighting
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CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

CERTIFICATE OF COMPLIANCE
Project Name: BUILDING A ROOSEVELT
Project Address: 2324 VERDE STREET
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T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/

Table with 4 columns: Yes, No, Form/Title, Field Inspector. Pass/Fail.
NRCC-LTI-01-E - Must be submitted for all buildings. Pass. Fail.
NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. Pass. Fail.
NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance. Pass. Fail.
NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. Pass. Fail.
NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance. Pass. Fail.

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Table with 4 columns: Yes, No, Form/Title, Field Inspector. Pass/Fail.
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. Pass. Fail.
NRCA-LTI-03-A - Must be submitted for automatic daylight controls. Pass. Fail.
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. Pass. Fail.
NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF). Pass. Fail.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Report Generated: 2022-11-03 08:20:40

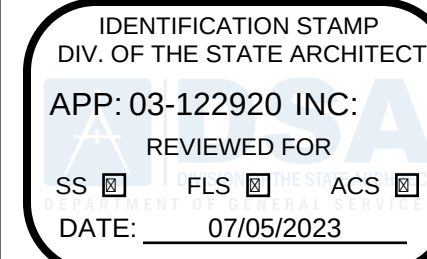
STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION
NRCC-LTI-E

CERTIFICATE OF COMPLIANCE
Project Name: BUILDING A ROOSEVELT
Project Address: 2324 VERDE STREET
Report Page: (Page 8 of 8)
Date Prepared: 11/3/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Davor P. Golik P.E.
Company: DPG Engineering, Inc.
Address: 6702 N Cedar #205
City/State/Zip: Fresno CA 93710
Phone: 559 275 5144
Signature Date: 2022-11-03
Signature: [Signature]
Signature Date: 2022-11-03
Signature: [Signature]

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.
Responsible Designer Name: DAVOR P. GOLIK P.E.
Company: DPG ENGINEERING
Address: 6702 N CEDAR #205
City/State/Zip: FRESNO CA 93710
Phone: 559 275 5144
Signature Date: 2022-11-03
Signature: [Signature]

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
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PTN: 63321-389 FILE: 15-6

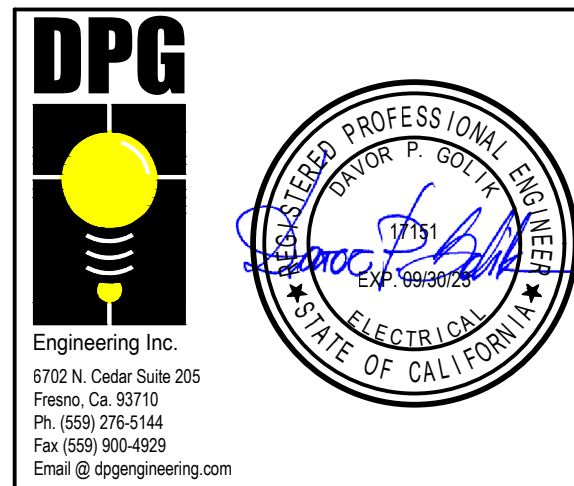
ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM



CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.



TITLE 24 REPORT
BUILDING 'B'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.
1317
DRAWN:
R.L.M.
CHECKED:
D.P.G.
DATE:
12/8/22
7.01
OF
SHEETS

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

Project Name: BUILDING B ROOSEVELT Report Page: (Page 1 of 7)
Project Address: 2324 VERDE STREET Date Prepared: 11/3/2022

A. GENERAL INFORMATION

01 Project Location (city)	BAKERSFIELD	04 Total Conditioned Floor Area (ft ²)	5,536
02 Climate Zone	13	05 Total Unconditioned Floor Area (ft ²)	0
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1
☐ Office	☐ Retail	☐ Hotel/Motel	☒ School
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare
			☐ Other (Write in)

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces	Unconditioned Spaces
01 My Project Consists of (check all that apply):	02 Calculation Method	03 Area (ft ²)
☒ New Lighting System	Complete Building Method	5536
☐ New Lighting System	Parking Garage	0
Total Area of Work (ft ²)	5536	0

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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Registration Provider: Energysoft
Report Version: 2019.1.003
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Schema Version: rev 20200601

STATE OF CALIFORNIA
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NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: BUILDING B ROOSEVELT Report Page: (Page 4 of 7)
Project Address: 2324 VERDE STREET Date Prepared: 11/3/2022

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft ²)	04 Area (ft ²)	05 Allowed Wattage (Watts)	06 Additional Allowance / Adjustment Area Category PAF
Whole Building	School Building	0.65	5,536	3,598.4	No
TOTALS:			5,536	3,598.4	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: BUILDING B ROOSEVELT Report Page: (Page 7 of 7)
Project Address: 2324 VERDE STREET Date Prepared: 11/3/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Davor P. Golik P.E.
Signature Date: 2022-11-03
Company: DPG Engineering, Inc.
Address: 6702 N Cedar #205
City/State/Zip: Fresno CA 93710
Phone: 559 275 5144

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: DAVOR P. GOLIK P.E.
Signature Date: 2022-11-03
Company: DPG ENGINEERING
Address: 6702 N CEDAR #205
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CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: BUILDING B ROOSEVELT Report Page: (Page 2 of 7)
Project Address: 2324 VERDE STREET Date Prepared: 11/3/2022

C. COMPLIANCE RESULTS
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)(1)	Allowed Lighting Power per §140.6(b) (Watts)					Adjusted Lighting Power per §140.6(a) (Watts)			Compliance Results
	01 Complete Building §140.6(c)(1)	02 Area Category §140.6(c)(2)	03 Area Category Additional §140.6(c)(2)(+) (Watts)	04 Tailored §140.6(c)(3) (+)	05 Total Allowed (Watts)	06 Total Designed (Watts)	07 PAF Lighting Control Credits §140.6(a)(2) (-)	08 Total Adjusted (Watts) *Includes Adjustments	
Conditioned	3,598	(See Table I)	(See Table J)	(See Table K)	= 3,598	≥ 2,520	0	= 2520	COMPLIES
Unconditioned					=	≥			COMPLIES
Controls Compliance (See Table H for Details)									COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)									

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE
This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces									
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)(3)	Design Watts	Field Inspector Pass Fail
A	35 WATT LED	No	No	35	CEC Default	72	No	2,520	☐ ☐
Total Designed Watts: CONDITIONED SPACES						2,520			

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: BUILDING B ROOSEVELT Report Page: (Page 5 of 7)
Project Address: 2324 VERDE STREET Date Prepared: 11/3/2022

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCL/

Yes	No	Form/Title	Field Inspector Pass Fail
☒	☐	NRCL-LTI-01-E - Must be submitted for all buildings	☐ ☐
☐	☒	NRCL-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ ☐
☐	☒	NRCL-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐ ☐
☐	☒	NRCL-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ ☐
☐	☒	NRCL-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ ☐

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: BUILDING B ROOSEVELT Report Page: (Page 3 of 7)
Project Address: 2324 VERDE STREET Date Prepared: 11/3/2022

F. INDOOR LIGHTING FIXTURE SCHEDULE
FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)(4B) is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment; the permit applicant should enter full rated wattage in column 05.
Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Building Level Controls		Area Level Controls	
01 Mandatory Demand Response §110.12(c)	02 Shut-off controls §130.1(c)	03 Field Inspector Pass Fail	
Not Required <= 10,000 SF		Whole Building Other	
04 Area Description	05 Complete Building or Area Category Primary Function Area	06 Area Controls §130.1(a)	07 Multi-Level Controls §130.1(b)
		08 Shut-Off Controls §130.1(c)	09 Primary/Skylight Daylighting §130.1(d)
		10 Secondary Daylighting §140.6(d)	11 Interlocked Systems §140.6(a)(1)
		12 Field Inspector Pass Fail	
CLASSROOM	School Building	Manual ON/OFF	Dimmer
		Occupancy Sensor	Included
		Included	No
		No	☐ ☐
		13 Plan Sheet Showing Daylit Zones:	
		E2.30	

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX. Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)(2)

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: 2019.1.003
Registration Provider: Energysoft
Report Version: 2019.1.003
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Schema Version: rev 20200601

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: BUILDING B ROOSEVELT Report Page: (Page 6 of 7)
Project Address: 2324 VERDE STREET Date Prepared: 11/3/2022

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Yes	No	Form/Title	Field Inspector Pass Fail
☒	☐	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ ☐
☒	☐	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ ☐
☐	☒	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ ☐
☐	☒	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF)	☐ ☐

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: 2019.1.003
Registration Provider: Energysoft
Report Version: 2019.1.003
Report Generated: 2022-11-03 08:35:03
Schema Version: rev 20200601

STATE OF CALIFORNIA

Indoor Lighting

NRCC-L16

CERTIFICATE OF COMPLIANCE

Project Name:

BUILDING C ROOSEVELT

Project Address:

2324 VERDE STREET

NRCC-L16

Report Page:

(Page 7 of 7)

Date Prepared:

11/3/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:

Davor P. Golik P.E.

Company:

DPG Engineering, Inc.

Address:

6702 N Cedar #205

City/State/Zip:

Fresno CA 93710

Documentation Author Signature:



Signature Date:

2022-11-03

CEA/HERS Certification Identification (if applicable):

E17151

Phone:

559 275 5144

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:

DAVOR P. GOLIK P.E.

Company:

DPG ENGINEERING

Address:

6702 N CEDAR #205

City/State/Zip:

FRESNO CA 93710

Responsible Designer Signature:



Date Signed:

2022-11-03

License:

E17151

Phone:

559 276 5144

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20200601

Registration Provider: Energysoft

Report Generated: 2022-11-03 08:52:15

STATE OF CALIFORNIA

Indoor Lighting

NRCLTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name:

BUILDING C ROOSEVELT

Report Page:

NRCLTI-E

Project Address:

2324 VERDE STREET

Date Prepared:

11/3/2022

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Yes

No

Form/Title

Field Inspector

Pass

Fail

●

○

NRCL-TI-01-E - Must be submitted for all buildings.

☐

☐

○

●

NRCL-TI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.

☐

☐

○

●

NRCL-TI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.

☐

☐

○

●

NRCL-TI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.

☐

☐

○

●

NRCL-TI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.

☐

☐

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-11-03 08:52:15

STATE OF CALIFORNIA Indoor Lighting NRCC-ITI-E		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE			
Project Name:	BUILDING C ROOSEVELT	Report Page:	NRCC-ITI-E (Page 6 of 7)
Project Address:	2324 VERDE STREET	Date Prepared:	11/3/2022

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by the permit applicant, an explanation should be included in Table E.

Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

		Form/Title	Field Inspector	
Yes	No		Pass	Fail
☒	☐	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
☒	☐	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
☐	☒	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
☐	☒	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

JOB NO.	
1317	
DRAWN :	
R.L.M.	
CHECKED :	
D.P.G.	
DATE :	
12/8/22	

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

Project Name: BUILDING D ROOSEVELT

Report Page: (Page 1 of 7)

Project Address: 2324 VERDE STREET

Date Prepared: 11/3/2022

A. GENERAL INFORMATION

01 Project Location (city)

BAKERSFIELD

04 Total Conditioned Floor Area (ft²)

4,614

02 Climate Zone

13

05 Total Unconditioned Floor Area (ft²)

0

03 Occupancy Types Within Project (select all that apply):

06 # of Stories (Habitable Above Grade)

1

☐ Office

☐ Retail

☐ Warehouse

☐ Hotel/Motel

☐ School

☐ Support Areas

☐ Parking Garage

☐ High-Rise Residential

☐ Relocatable

☐ Healthcare

☒ Other (Write in)

See Table I

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work

Conditioned Spaces

Unconditioned Spaces

01

02

03

04

05

My Project Consists of (check all that apply):

Calculation Method

Area (ft²)

Calculation Method

Area (ft²)

☒ New Lighting System

Area Category Method

4614

Area Category Method

0

☐ New Lighting System - Parking Garage

Total Area of Work (ft²)

4614

0

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-11-03 08:54:39

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

Project Name: BUILDING D ROOSEVELT

Report Page: (Page 2 of 7)

Project Address: 2324 VERDE STREET

Date Prepared: 11/3/2022

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1

Allowed Lighting Power per §140.6(b) (Watts)

Adjusted Lighting Power per §140.6(a) (Watts)

Compliance Results

01

02

03

04

05

06

07

08

09

Complete Building

Area Category

Additional

Tailored

Total Allowed

Total Designed

PAF Lighting Control Credits

Total Adjusted

05 must be >= 08

§140.6(c)1

§140.6(c)2

§140.6(c)2G (+)

§140.6(c)3 (+)

(Watts)

§140.6(a)2 (-)

§140.6

(See Table I)

(See Table I)

(See Table J)

(See Table K)

(See Table F)

(See Table P)

Conditioned

Unconditioned

3,229.8

0

=

3,230

≥

2,100

0

=

2100

COMPLIES

COMPLIES

Controls Compliance (See Table H for Details)

Rated Power Reduction Compliance (See Table Q for Details)

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01

02

03

04

05

06

07

08

09

10

Name or Item Tag

Complete Luminaire Description

Modular (Track) Fixture

Small Aperture & Color Change¹

Watts per luminaire²

How is Wattage determined

Total Number of Luminaires

Excluded per §140.6(a)3

Design Watts

Field Inspector

Pass

Fail

A

35 WATT LED

No

No

35

CEC Default

60

No

2,100

☐

☐

Total Designed Watts: CONDITIONED SPACES

2,100

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-11-03 08:54:39

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

Project Name: BUILDING D ROOSEVELT

Report Page: (Page 3 of 7)

Project Address: 2324 VERDE STREET

Date Prepared: 11/3/2022

F. INDOOR LIGHTING FIXTURE SCHEDULE

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)3B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

²Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Building Level Controls

01

02

03

Mandatory Demand Response §110.12(c)

Shut-off controls §130.1(c)

Field Inspector

Pass

Fail

Not Required <= 10,000 SF

Whole Building Other

☐

☐

Area Level Controls

04

05

06

07

08

09

10

11

12

Area Description

Complete Building or Area Category Primary Function Area

Area Controls §130.1(a)

Multi-Level Controls §130.1(b)

Shut-Off Controls §130.1(c)

Primary/Sky lit Daylighting §130.1(d)

Secondary Daylighting §140.6(d)

Interlocked Systems §140.6(a)1

Field Inspector

Pass

Fail

CLASSROOM

Classroom, Lecture, or Training Vocational Area

Manual ON/OFF

Dimmer

Occupancy Sensor

Included

Included

No

☐

☐

13

Plan Sheet Showing Daylit Zones:

E2.30

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.

EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

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This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

Project Name: BUILDING D ROOSEVELT

Report Page: (Page 4 of 7)

Project Address: 2324 VERDE STREET

Date Prepared: 11/3/2022

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.

Conditioned Spaces

01

02

03

04

05

06

Area Description

Complete Building or Area Category Primary Function Area

Allowed Density (W/ft²)

Area (ft²)

Allowed Wattage (Watts)

Additional Allowance / Adjustment

Area Category

PAF

CLASSROOM

Classroom, Lecture, or Training Vocational Area

0.7

4,614

3,229.8

No

No

TOTALS:

4,614

3,229.8

See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

Project Name: BUILDING D ROOSEVELT

Report Page: (Page 5 of 7)

Project Address: 2324 VERDE STREET

Date Prepared: 11/3/2022

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E.

Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCL/

Yes

No

Form/Title

Field Inspector

Pass

Fail

☒

☐

NRCL-LTI-01-E - Must be submitted for all buildings

☐

☐

☐

☒

NRCL-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.

☐

☐

☐

☒

NRCL-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.

☐

☐

☐

☒

NRCL-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.

☐

☐

☐

☒

NRCL-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.

☐

☐

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

Project Name: BUILDING D ROOSEVELT

Report Page: (Page 6 of 7)

Project Address: 2324 VERDE STREET

Date Prepared: 11/3/2022

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E.

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Yes

No

Form/Title

Field Inspector

Pass

Fail

☒

☐

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

☐

☐

☒

☐

NRCA-LTI-03-A - Must be submitted for automatic daylight controls.

☐

☐

☐

☒

NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.

☐

☐

☐

☒

NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF)

☐

☐

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

Project Name: BUILDING D ROOSEVELT

Report Page: (Page 7 of 7)

Project Address: 2324 VERDE STREET

Date Prepared: 11/3/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:

Davor P. Golik P.E.

Signature Date:

2022-11-03

Company:

DPG Engineering, Inc.

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6702 N Cedar #205

City/State/Zip:

Fresno CA 93710

Phone:

559 275 5144

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:

DAVOR P. GOLIK P.E.

Signature:

Date Signed:

2022-11-03

Company:

DPG ENGINEERING

Address:

6702 N CEDAR #205

City/State/Zip:

FRESNO CA 93710

License:

E17151

Phone:

559 275 5144

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

Report Generated: 2022-11-03 08:54:39

PTN: 63321-389 FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

TITLE 24 REPORT
BUILDING 'D'

MARK	DATE	REVISIONS
△		
△		
△		

JOB NO.
1317
DRAWN:
R.L.M.
CHECKED:
D.P.G.
DATE:
12/8/22
7.03
OF
SHEETS

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

NRCC-LTI-F

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)(2) for indoor lighting scopes using the prescriptive path.

Project Name:

BUILDING E ROOSEVELT

Report Page:

(Page 1 of 7)

Project Address:

2324 VERDE STREET

Date Prepared:

11/3/2022

A. GENERAL INFORMATION

01 Project Location (city)

BAKERSFIELD

04 Total Conditioned Floor Area (ft²)

2,881

02 Climate Zone

13

05 Total Unconditioned Floor Area (ft²)

0

03 Occupancy Types Within Project (select all that apply):

06 # of Stories (Habitable Above Grade)

1

☐ Office

☐ Retail

☐ Warehouse

☐ Hotel/Motel

☒ School

☐ Support Areas

☐ Parking Garage

☐ High-Rise Residential

☐ Relocatable

☐ Healthcare

☐ Other (Write in)

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6, or §141.0(b)(2) for alterations.

Scope of Work	Conditioned Spaces	Unconditioned Spaces
01	02	04
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)
☒ New Lighting System	Complete Building Method	2881
☐ New Lighting System - Parking Garage	Complete Building Method	0
Total Area of Work (ft²)	2881	0

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003
Schema Version: rev 20200601

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

NRCC-LTI-F

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)(2) for indoor lighting scopes using the prescriptive path.

Project Name:

BUILDING E ROOSEVELT

Report Page:

(Page 4 of 7)

Project Address:

2324 VERDE STREET

Date Prepared:

11/3/2022

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky Lt. Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)(1)	Field Inspector
CLASSROOM	School Building	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	Pass Fail
OFFICE	School Building	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	Pass Fail
TOILET	School Building	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	Pass Fail

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)(2)

13

Plan Sheet Showing Daylit Zones:
E2.30

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b), are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c), or adjustments per §140.6(a), are being used.

01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category PAF
Whole Building	School Building	0.65	2,881	1,872.6	No
TOTALS:		2,881	1,872.6		See Tables I, or P for detail

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003
Schema Version: rev 20200601

Report Generated: 2022-11-03 08:56:44

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-E

NRCC-LTI-F

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)(2) for indoor lighting scopes using the prescriptive path.

Project Name:

BUILDING E ROOSEVELT

Report Page:

(Page 7 of 7)

Project Address:

2324 VERDE STREET

Date Prepared:

11/3/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:

Davor P. Golik P.E.

Documentation Author Signature:

Company:

DPG Engineering, Inc.

Signature Date:

2022-11-03

Address:

6702 N Cedar #205

CEA/HERS Certification Identification (if applicable):

E17151

City/State/Zip:

Fresno CA 93710

Phone:

559 275 5144

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:

DAVOR P. GOLIK P.E.

Responsible Designer Signature:

Company:

DPG ENGINEERING

Date Signed:

2022-11-03

Address:

6702 N CEDAR #205

License:

E17151

City/State/Zip:

FRESNO CA 93710

Phone:

559 275 5144

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003
Schema Version: rev 20200601

Report Generated: 2022-11-03 08:56:44

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C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(a)(1)	Allowed Lighting Power per §140.6(b) (Watts)				05 Total Allowed (Watts)	Adjusted Lighting Power per §140.6(a) (Watts)		Compliance Results
	01 Complete Building §140.6(c)(1)	02 Area Category §140.6(c)(2)	03 Area Category Additional §140.6(c)(2)(+) (+)	04 Tailored §140.6(c)(3) (+)		06 Total Designed (Watts)	07 Adjustments PAF Lighting Control Credits §140.6(a)(2) (-)	
(See Table I)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	1,873	1,430	1430	05 must be >= 08 §140.6
Conditioned	1,873				1,873	1,430	1430	COMPLIES
Unconditioned								COMPLIES

Controls Compliance (See Table H for Details)

COMPLIES

Rated Power Reduction Compliance (See Table Q for Details)

COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change¹	Watts per luminaire²	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)(3)	Design Watts	Field Inspector
A	35 WATT LED	No	No	35	CEC Default	38	No	1,330	Pass Fail

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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11/3/2022

F. INDOOR LIGHTING FIXTURE SCHEDULE

B	25 WATT LED	No	No	25	CEC Default	4	No	100	Pass Fail
Total Designed Watts: CONDITIONED SPACES									1,430

*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)(4B) is adjusted to be 75% of their rated wattage in column 05.

*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Building Level Controls	01	02	03
	Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Field Inspector
			Pass Fail
	Not Required <= 10,000 SF	Whole Building Other	Pass Fail

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

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Date Prepared:

11/3/2022

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC/

Yes	No	Form/Title	Field Inspector
			Pass Fail
☒	☐	NRCC-LTI-01-E - Must be submitted for all buildings.	Pass Fail
☐	☒	NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	Pass Fail
☐	☒	NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	Pass Fail
☐	☒	NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	Pass Fail
☐	☒	NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	Pass Fail

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Yes	No	Form/Title	Field Inspector
			Pass Fail
☒	☐	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Pass Fail
☒	☐	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Pass Fail
☐	☒	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Pass Fail
☐	☒	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF)	Pass Fail

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003
Schema Version: rev 20200601

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122920 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 07/05/2023

PTN: 63321-389 FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

ARCHITECT
SC
INC.

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

REGISTERED ARCHITECT
STEPHEN P. GOLIK, AIA, LEED®-AP

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

DPG
Engineering, Inc.
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph: (559) 275-5144
Fax: (559) 800-4929
Email: @dpgengineering.com

REGISTERED PROFESSIONAL ENGINEER
DAVOR P. GOLIK, P.E.
E17151
EXPIRATION DATE: 12/31/2025
STATE OF CALIFORNIA

TITLE 24 REPORT
BUILDING 'E'

MARK	DATE	REVISIONS
△		
△		
△		

JOB NO.
1317
DRAWN:
R.L.M.
CHECKED:
D.P.G.
DATE:
12/8/22

7.04
OF
SHEETS