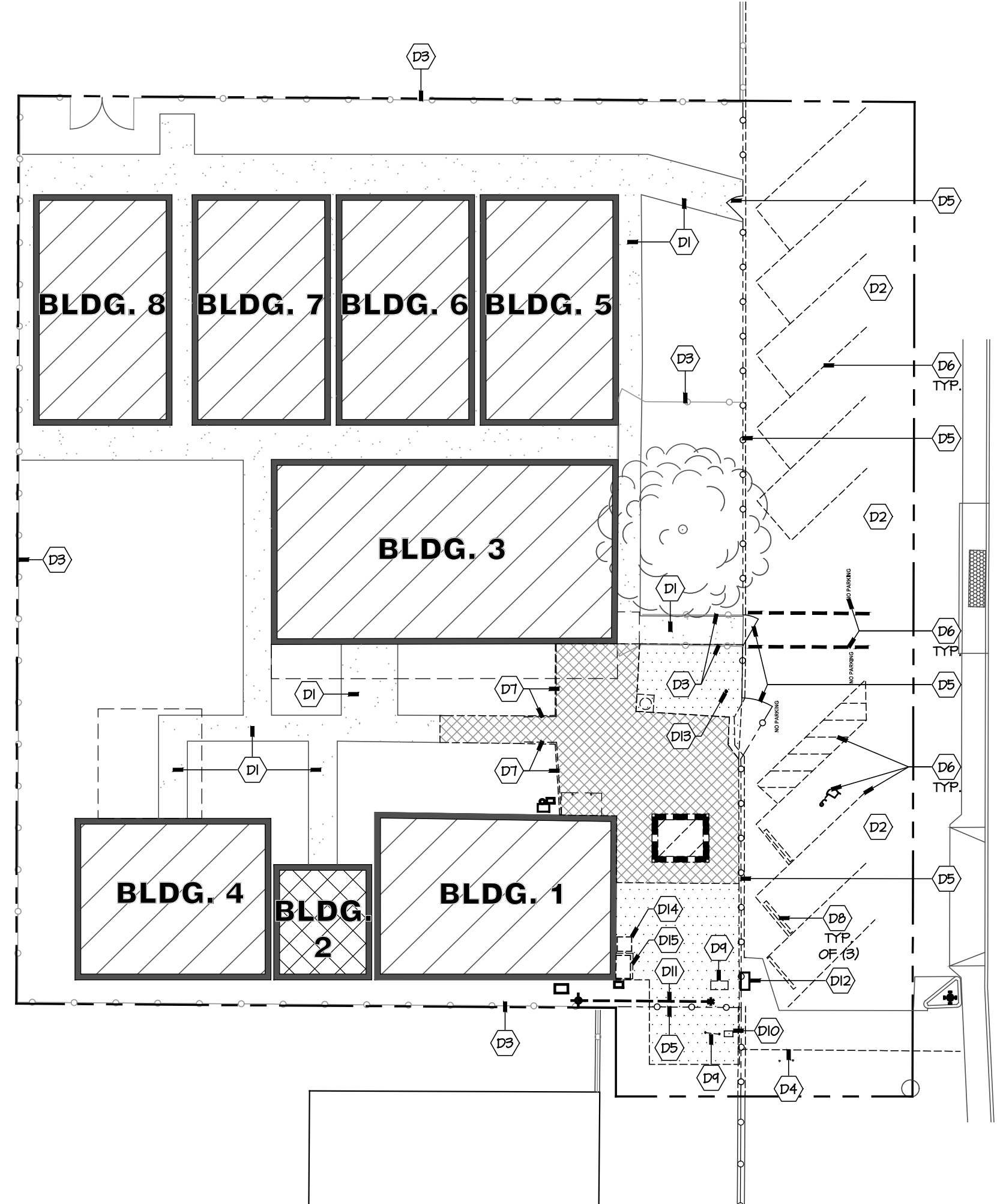
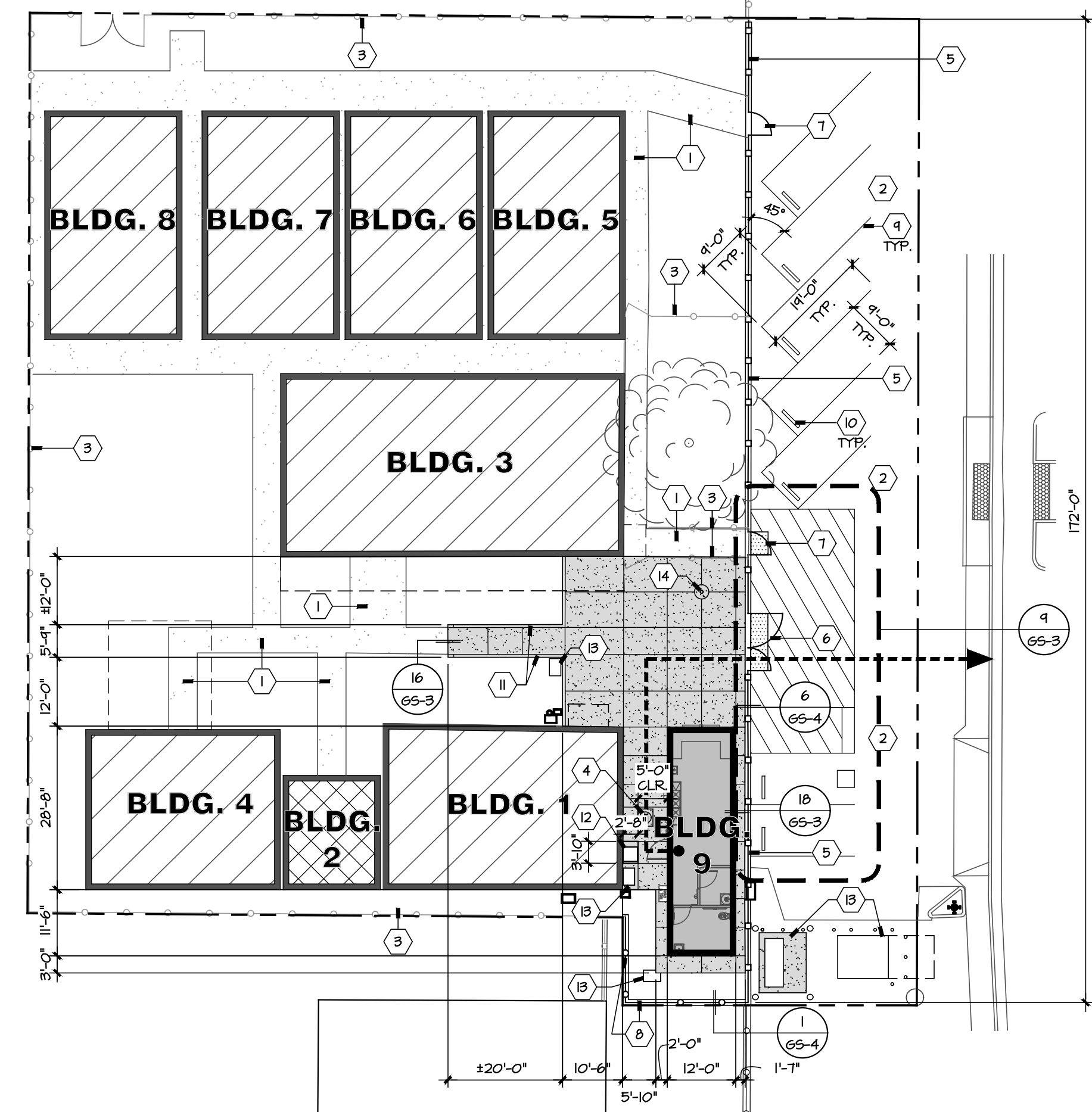


DATE: AUGUST 1, 2022



DAIRY AVENUE



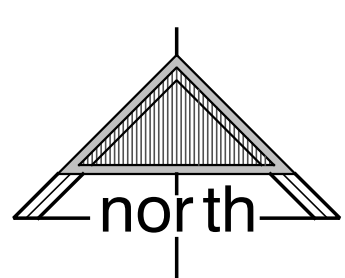
DAIRY AVENUE

DEMOLITION SITE PLAN KEYNOTES

- (D1) EXISTING CONCRETE TO REMAIN, PROTECT
- (D2) EXISTING ASPHALT PAVING TO REMAIN, PROTECT
- (D3) EXISTING CHAIN LINK FENCE TO REMAIN
- (D4) REMOVE EXISTING GUARD RAIL
- (D5) REMOVE EXISTING CHAIN LINK FENCING & GATES
- (D6) REMOVE EXISTING STRIPING
- (D7) REMOVE EXISTING HANDRAILS
- (D8) REMOVE EXISTING CONCRETE WHEEL STOP
- (D9) RELOCATE EXISTING CHECK VALVE, SEE PLUMBING DRAWINGS
- (D10) RELOCATE EXISTING WATER METER, SEE PLUMBING DRAWINGS
- (D11) RELOCATE EXISTING GUY WIRE, SEE ELECTRICAL DRAWINGS
- (D12) EXISTING UTILITY BOX TO REMAIN, PROTECT
- (D9) REMOVE EXISTING FLAG POLE
- (D14) REMOVE AND RE-INSTALL MECHANICAL UNIT ON RAISED CONC. PAD, SEE C/P3.0
- (D15) REMOVE SWITCHBOARD, SEE ELECTRICAL DRAWINGS

DEMOLITION PLAN LEGEND:

- EXISTING BUILDING
- EXISTING ACCESSIBLE TOILETS
- EXISTING BUILDING TO BE REMOVED
- EXISTING SITE AREA TO BE REGRADED
- EXISTING CONCRETE TO BE REMOVED
- PROPERTY LINE



DEMOLITION SITE PLAN

1"=20'-0"

SITE PLAN KEYNOTES

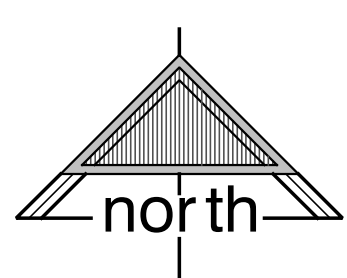
- (1) EXISTING CONCRETE TO REMAIN, PROTECT
- (2) EXISTING ASPHALT PAVING TO REMAIN, PROTECT
- (3) EXISTING CHAIN LINK FENCE TO REMAIN
- (4) GREASE INTERCEPTOR, BELOW GRADE, SEE PLUMBING DRAWINGS
- (5) NEW 6'-0" HIGH DECORATIVE METAL FENCE, SEE 9/65-4
- (6) NEW DOUBLE LEAF DECORATIVE METAL GATE, SEE 9/65-4
- (7) NEW SINGLE LEAF ACCESSIBLE DECORATIVE METAL GATE, SEE 7/65-4
- (8) NEW 6'-0" HIGH CHAIN LINK FENCE, SEE 3/65-4
- (9) 4" WIDE WHITE STRIPING, TYP.
- (10) NEW CONCRETE WHEEL STOP, SEE 17/65-3
- (11) NEW 6" CONCRETE CURB
- (12) RAISE EXISTING MECHANICAL UNIT, SEE C/P3.0
- (13) NEW ELECTRICAL EQUIPMENT AND BARRIER POSTS, SEE ELECTRICAL DRAWINGS
- (14) NEW FLAG POLE, SEE 25/503

SITE PLAN LEGEND:

- EXISTING BUILDING
- PROPOSED BUILDING
- NEW CONCRETE, SEE 11/65-3
- PROPERTY LINE
- ACCESSIBLE PATH OF TRAVEL

SITE PLAN NOTES:

1. WHEN AC PAVING AND/OR CONCRETE WALKS ARE IDENTIFIED TO BE PATCHED, REPLACED OR ARE DAMAGED BY CONTRACTOR, PATCH FLUSH WITH EXISTING SURFACE AND MATCH EXISTING CONSTRUCTION.
2. VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO EXCAVATIONS, GLOSE OR COVER OPEN TRENCHES, ETC. PRIOR TO CEASING WORK EACH DAY. PROVIDE BARRICADES AT ANY UNSAFE CONDITION AT ALL TIMES.
3. LANDINGS AT DOORWAYS SHALL BE DETAILED AND SHALL HAVE SLOPES (IN ANY DIRECTION) NO GREATER THAN 1/4" AND 1/2" SLOPE TO BE AWAY FROM DOORWAYS.
4. LOCATE AND VERIFY ALL (E) UTILITY BOXES, RAISE OR LOWER TO FLUSH WITH NEW CONCRETE OR FINISH GRADE, TYP.
5. ALL EXPOSED CONDUITS, UNISTRUT, FLASHINGS, ETC. ATTACHED TO EXISTING OR NEW BUILDINGS SHALL BE PAINTED TO MATCH THE ADJACENT WALL OR SURFACE OF THE EXISTING OR NEW BUILDINGS.
6. ALL UTILITY LINES RUN UNDER (E) CONC. WALKS 20" WIDE OR LESS SHALL BE BORED UNDER OR DEMOLISHED AND REPLACED JOINT TO JOINT.
7. FOR NEW BUILDING "1" CONTRACTOR TO PROVIDE "ROOM I.D.", "EXIT", "ALS", "TOILET" AND 15A SIGNAGE AT ALL EXTERIOR DOORS, SEE 2/65-4.



NEW SITE PLAN

1"=20'-0"

NEW MODULAR FOOD SERVICE BUILDING AT KINGS LAKE EDUCATION CENTER
 CORCORAN JOINT UNIFIED SCHOOL DISTRICT
 1128 S. DAIRY AVENUE, CORCORAN, CA 93212

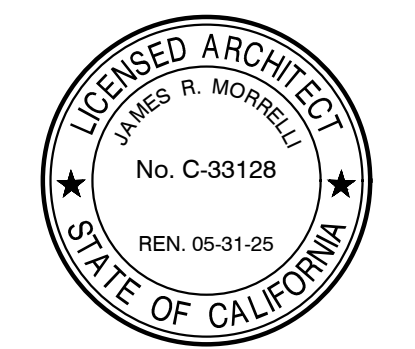
REVISIONS

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TITLE
 DEMO SITE PLAN
 NEW SITE PLAN

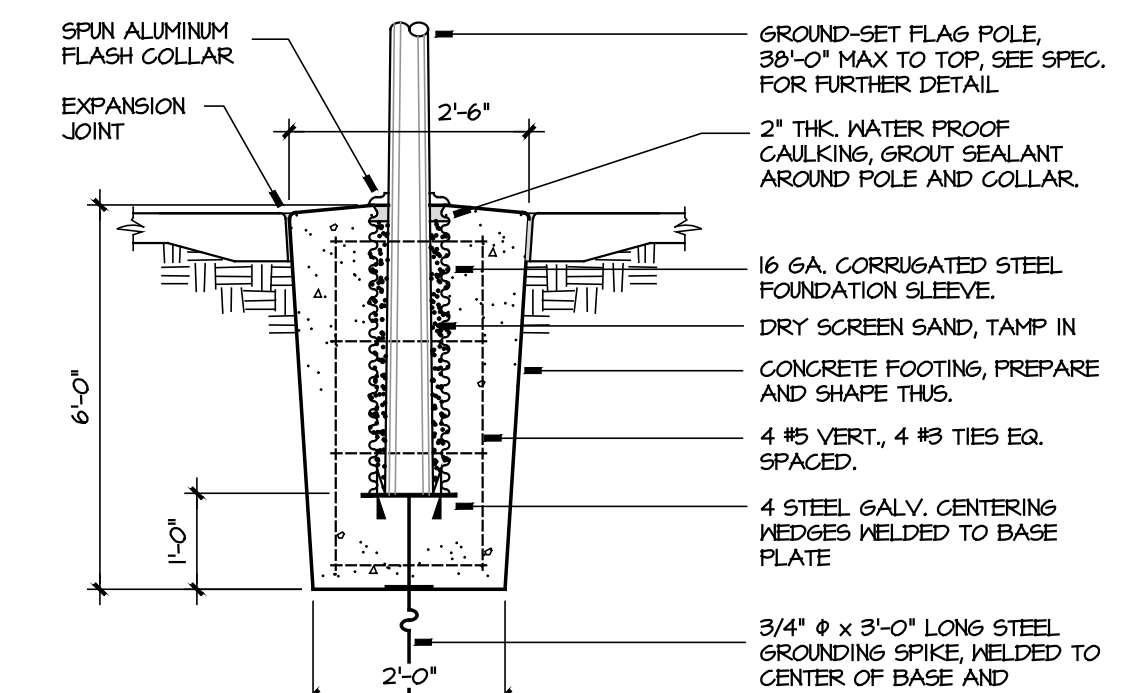
GS-2

PROJECT **2143**

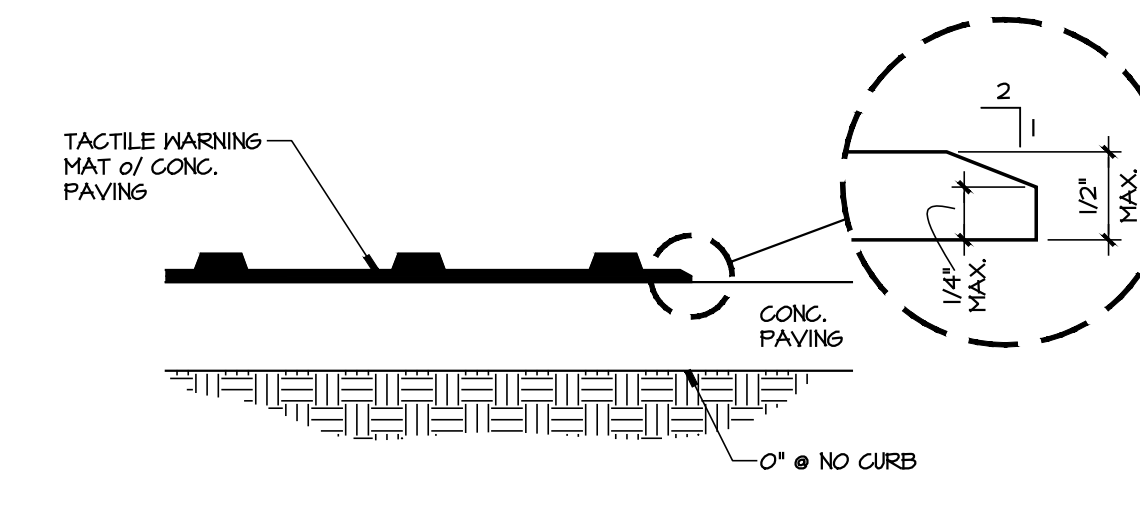


DATE: AUGUST 1, 2022

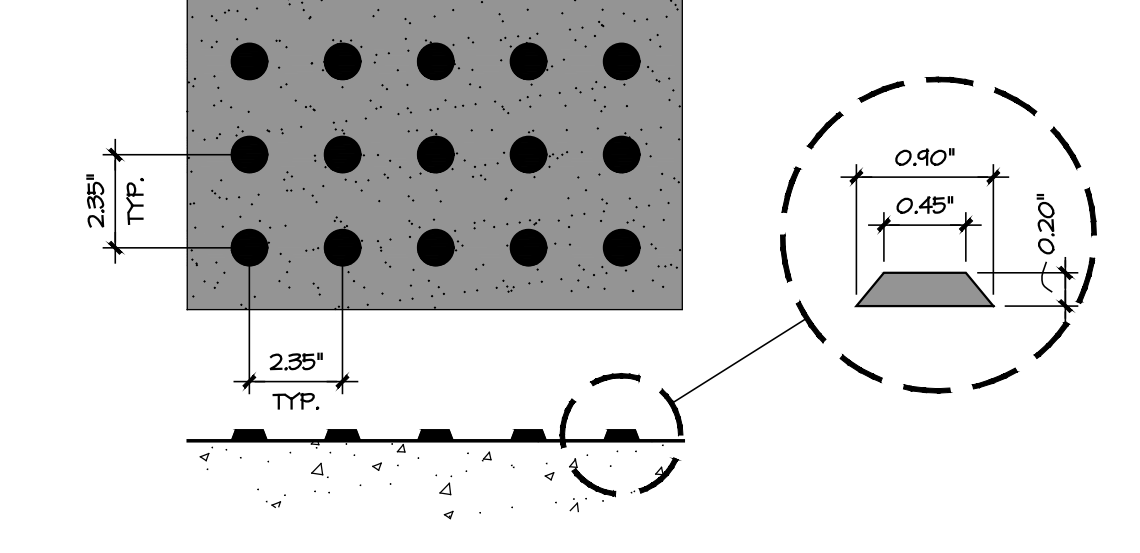
NEW MODULAR FOOD SERVICE BUILDING AT KINGS LAKE EDUCATION CENTER
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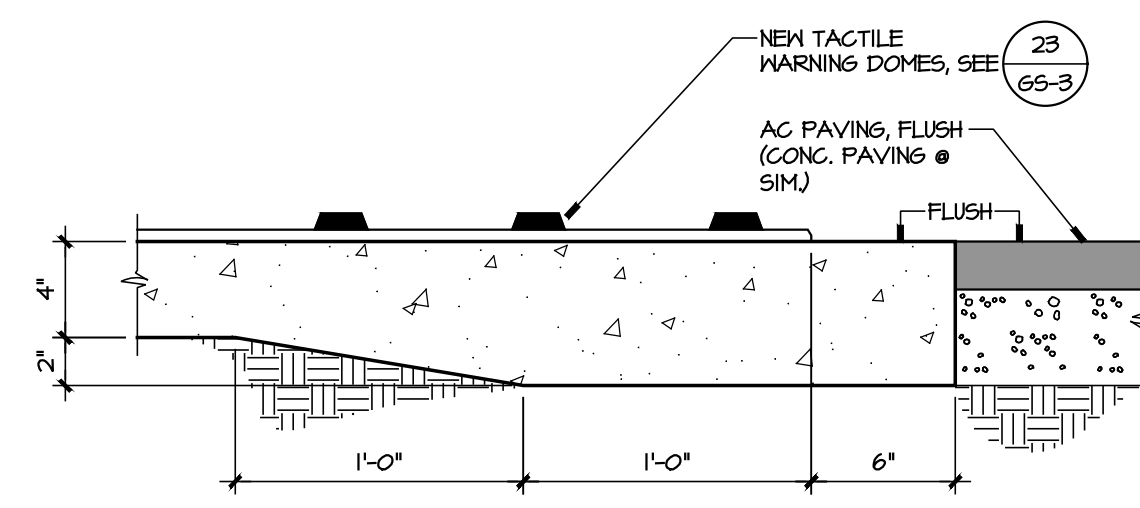
25 FLAG POLE FOOTING
 1/2" = 1'-0" (34'-0" MAX HEIGHT)



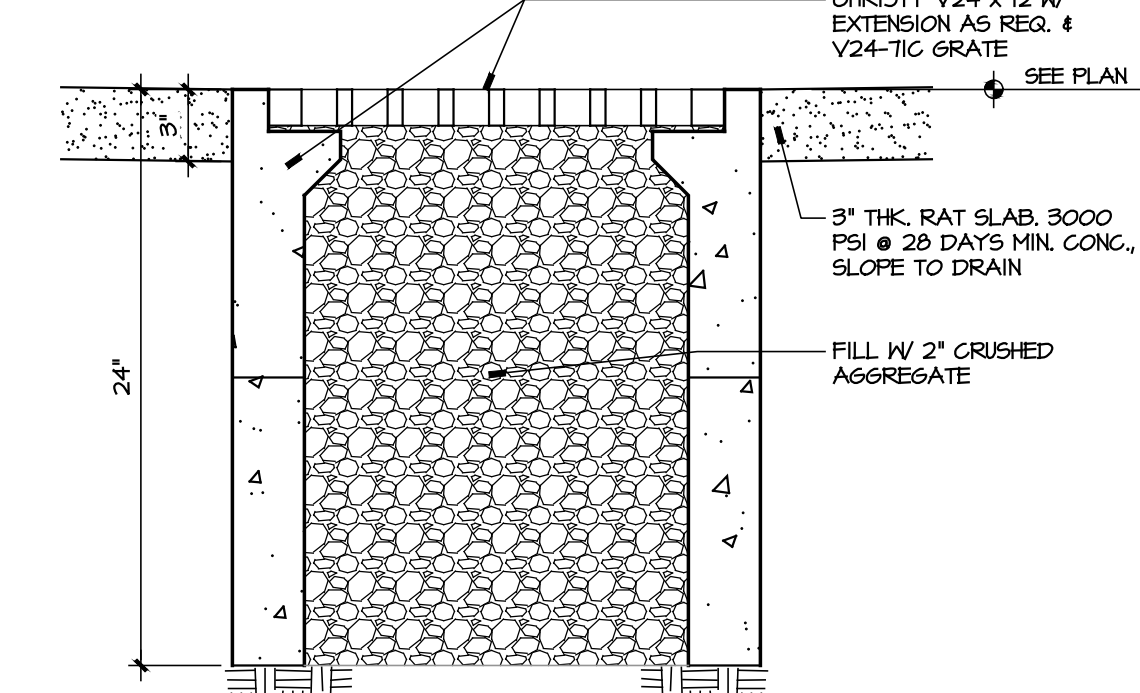
23 TACTILE WARNING MAT
 1/2" = 1'-0"



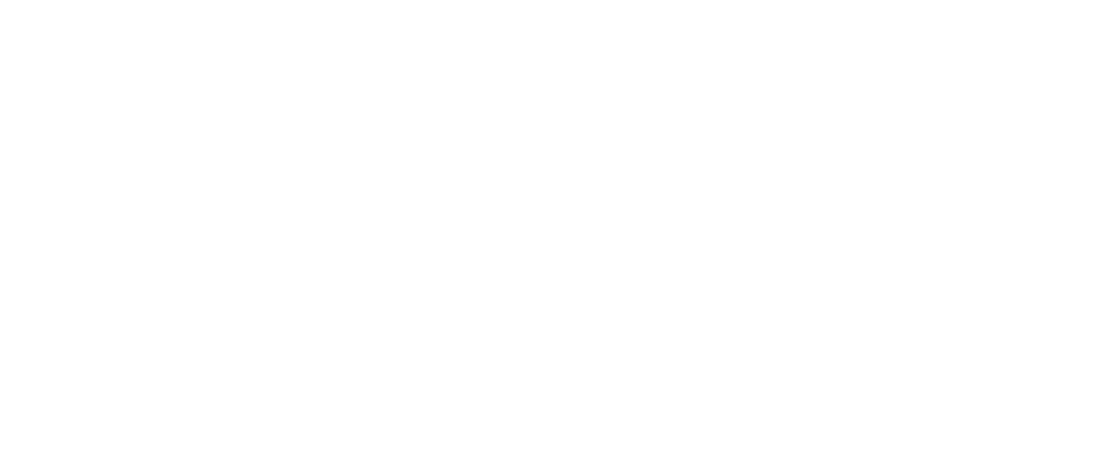
23 TACTILE WARNING MAT
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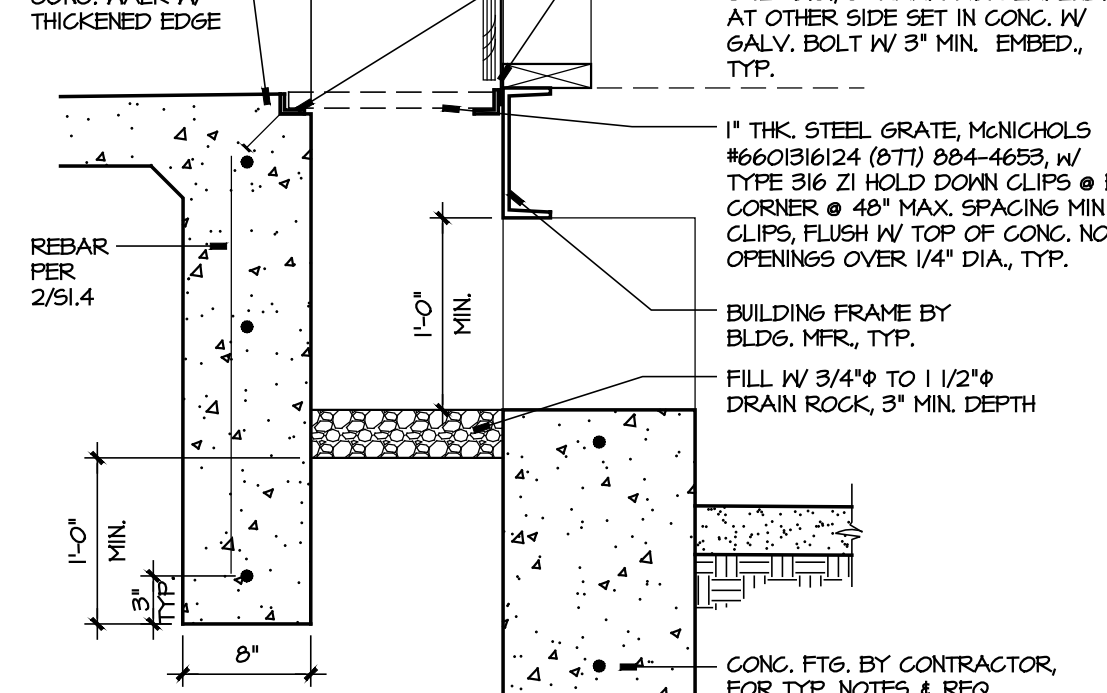
22 TACTILE WARNING MAT
 1/2" = 1'-0"



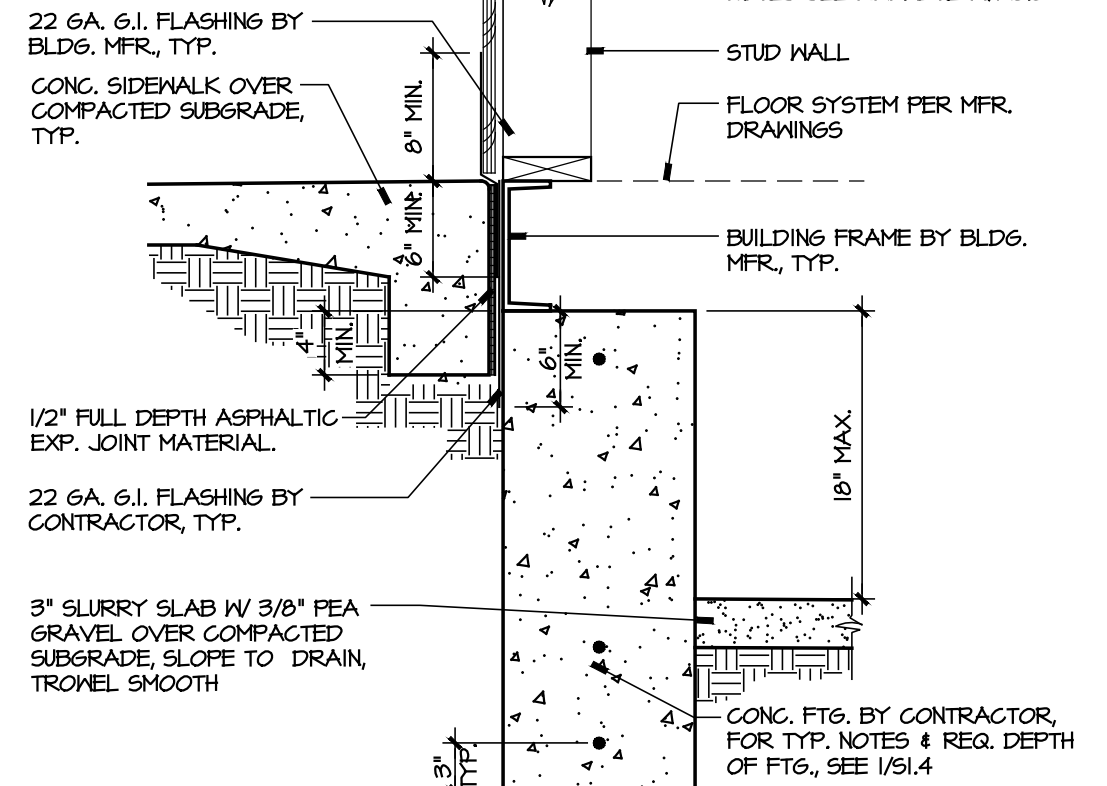
21 DRYWELL @ RAT SLAB
 SCALE: 1/2" = 1'-0"



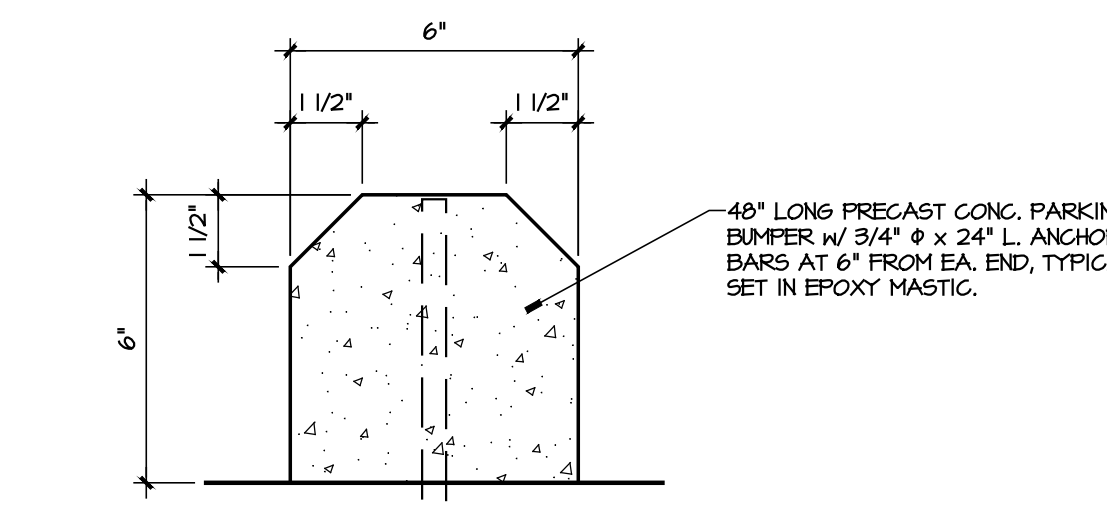
19 VENT AT BLDG.
 SCALE: 1" = 1'-0"



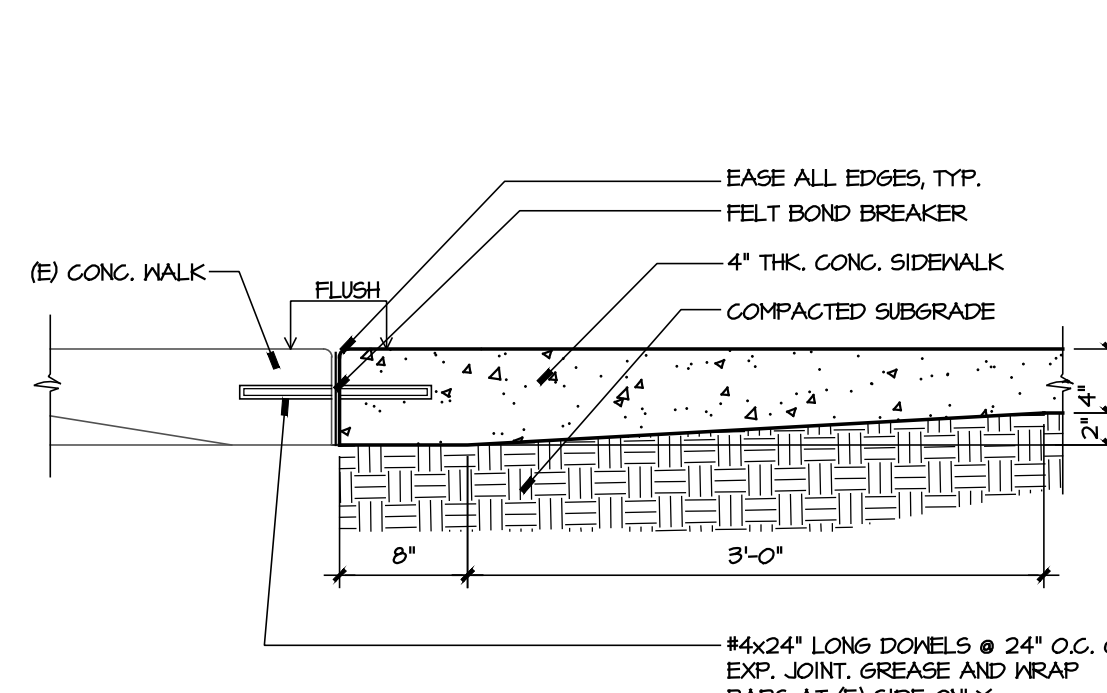
14 CONCRETE SIDEWALK
 SCALE: 1" = 1'-0"



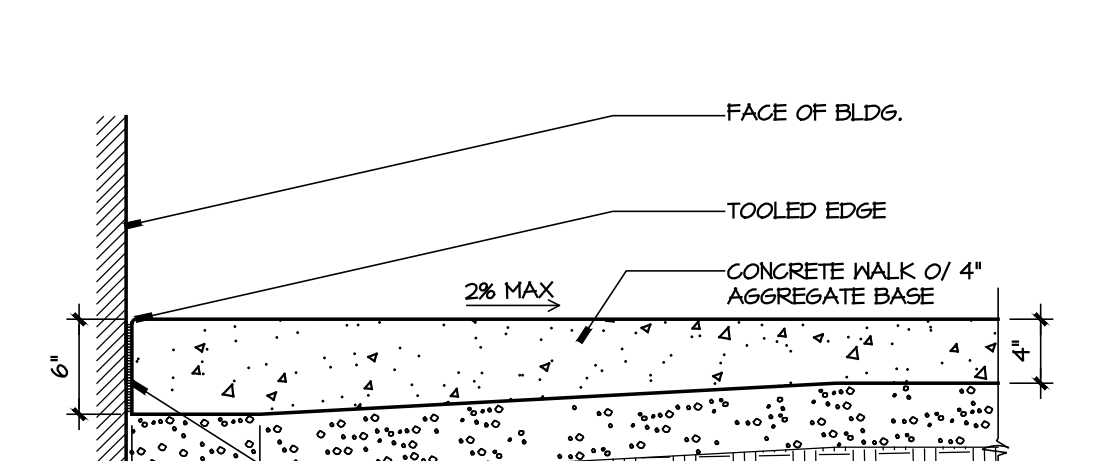
18 CONG. AT BLDG.
 SCALE: 1" = 1'-0"



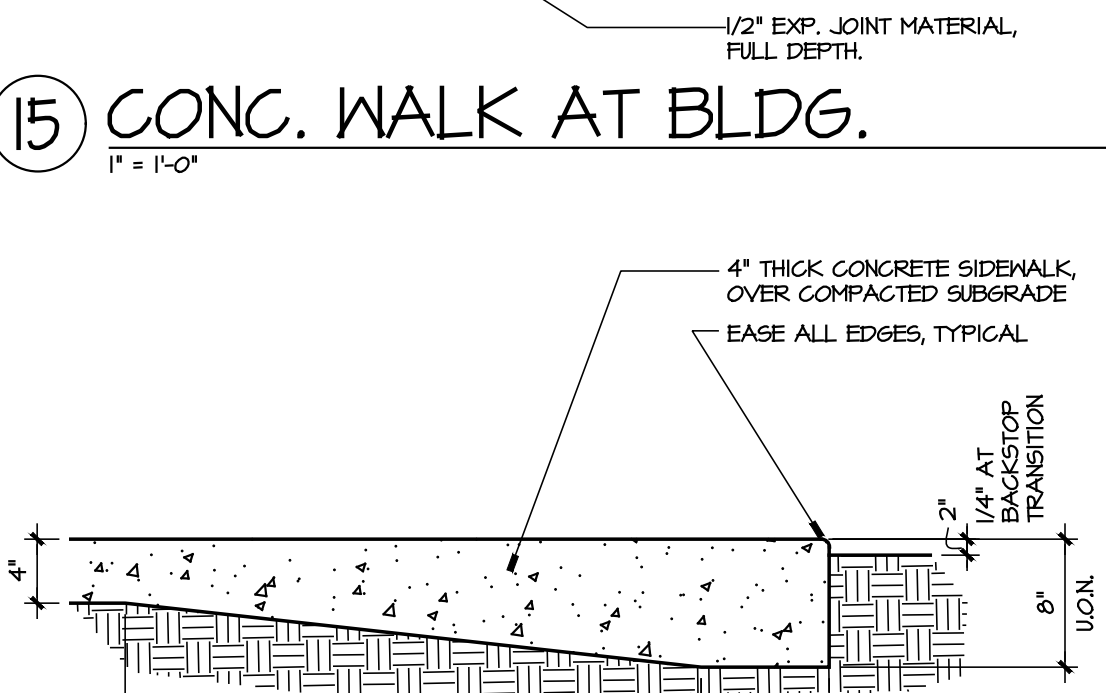
17 CONG. WHEELSTOP
 3" = 1'-0"



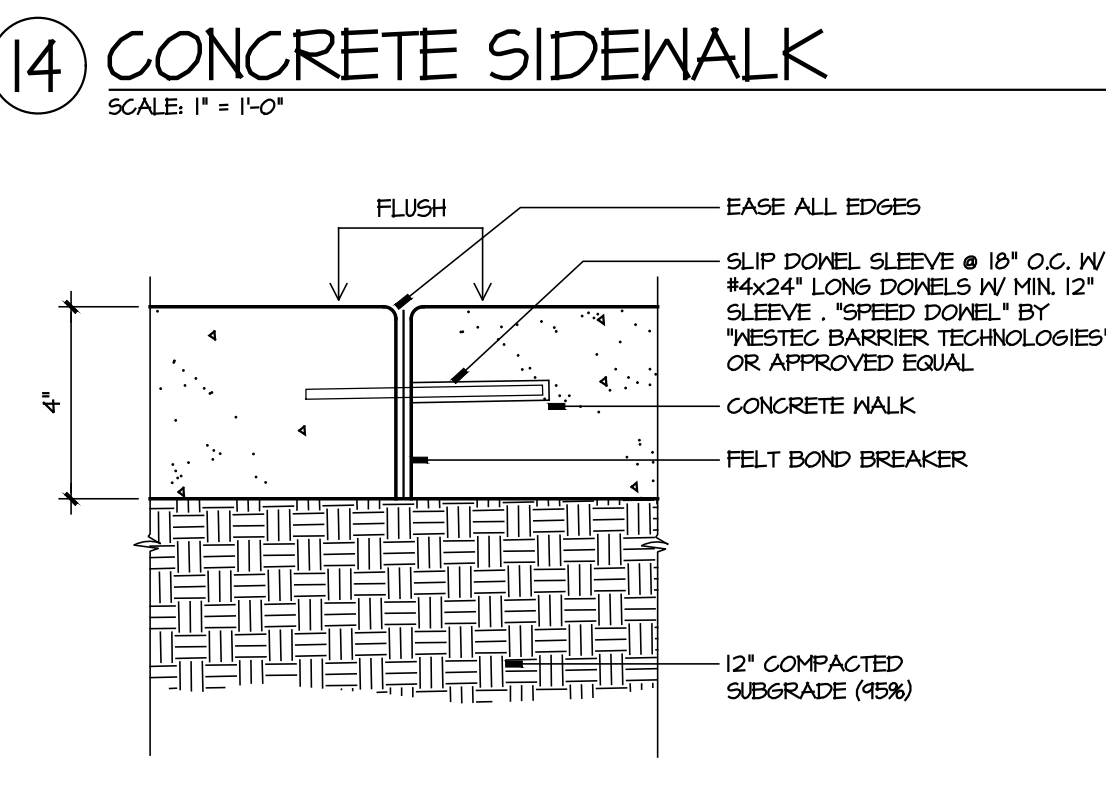
16 (N) CONG. WALK @ (E) WALK
 SCALE: 1" = 1'-0"



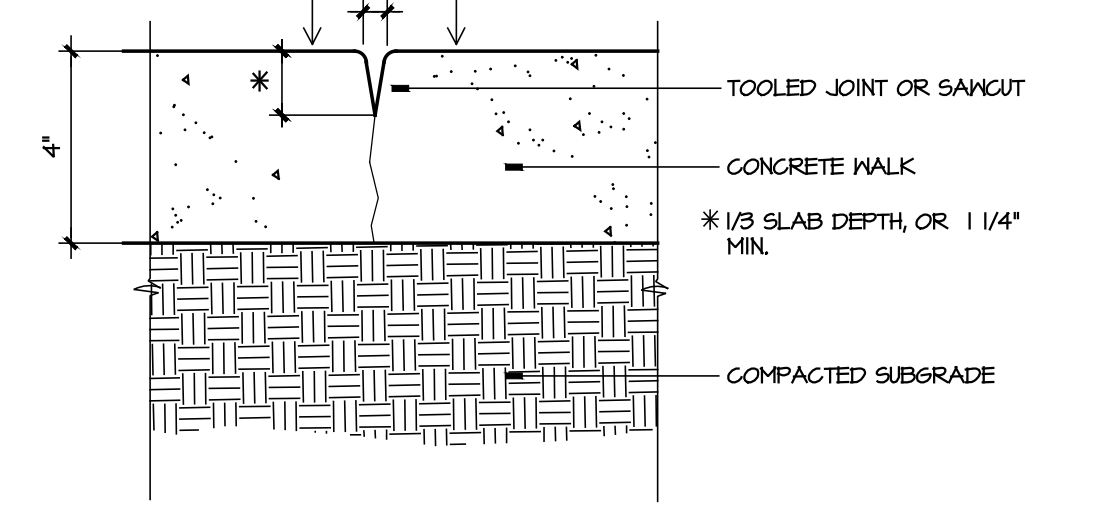
15 CONG. WALK AT BLDG.
 1" = 1'-0"



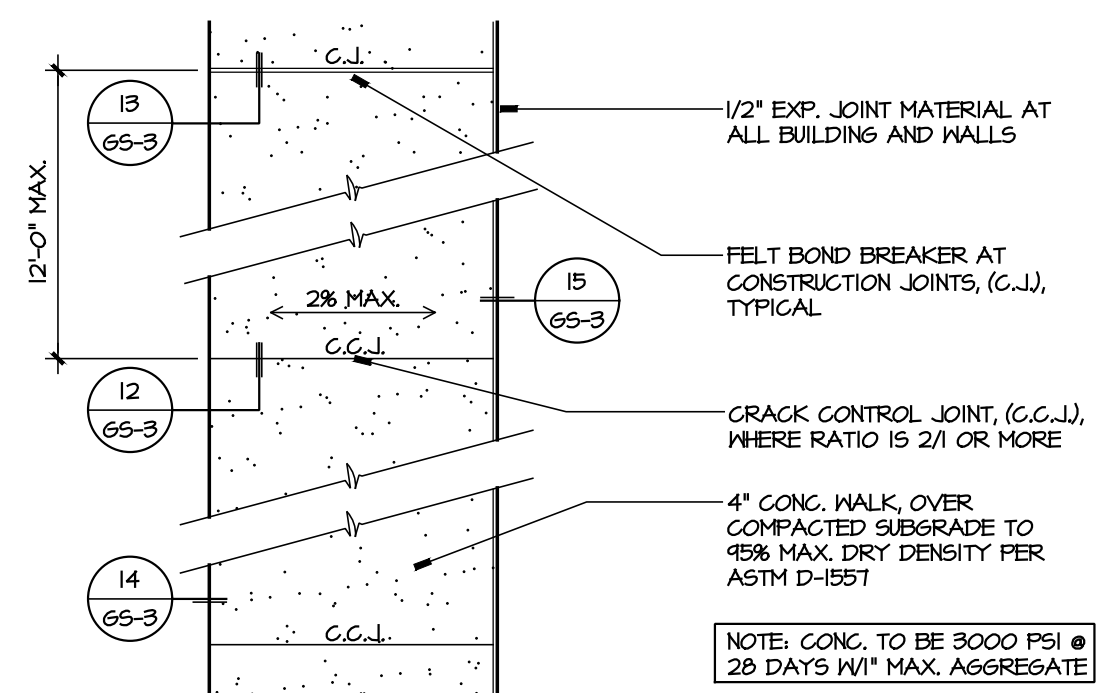
14 CONCRETE SIDEWALK
 SCALE: 1" = 1'-0"



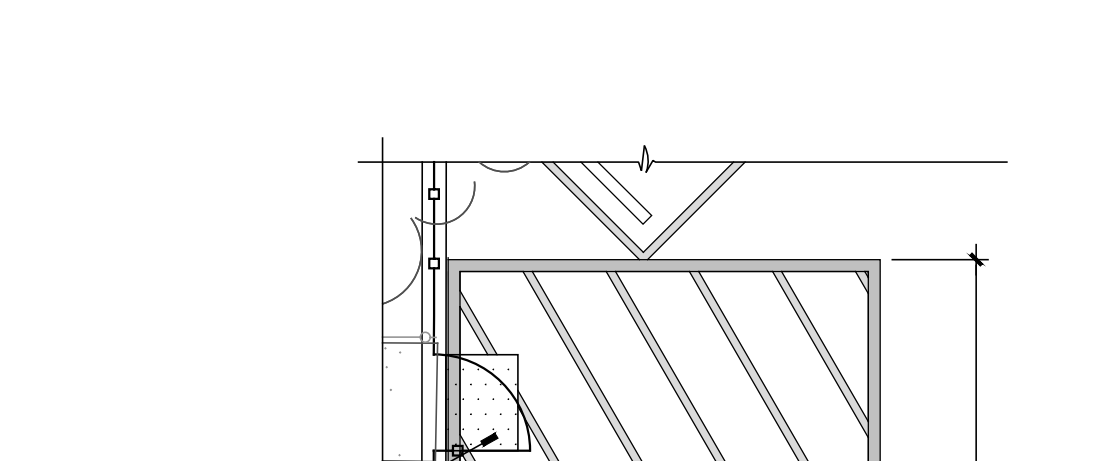
13 CONSTRUCTION JOINT (CJ)
 SCALE: 3/4" = 1'-0"



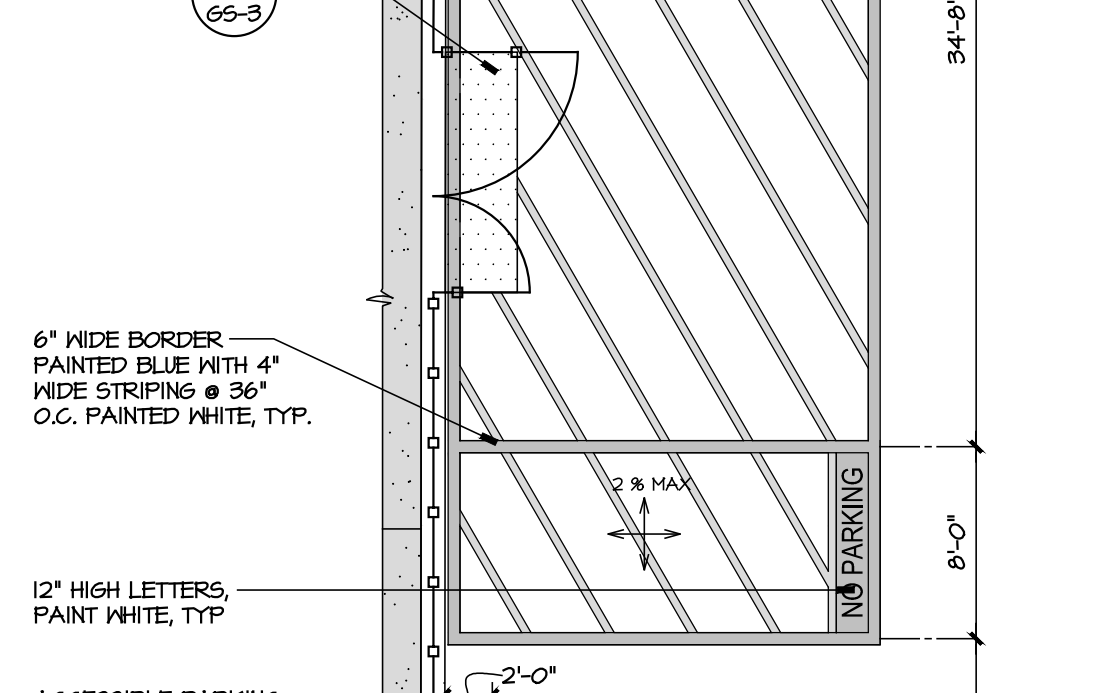
12 CRACK CONTROL JOINT (C.C.J.)
 SCALE: 3/4" = 1'-0"



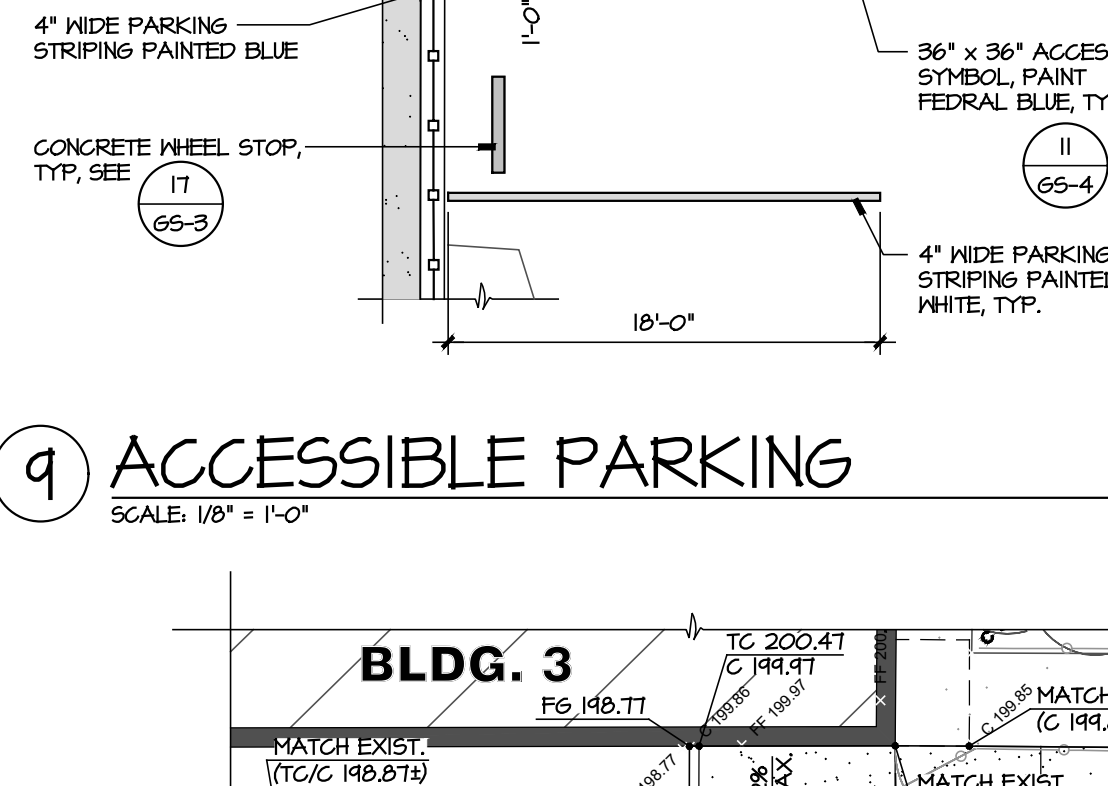
11 CONCRETE WALK
 SCALE: 1/4" = 1'-0"



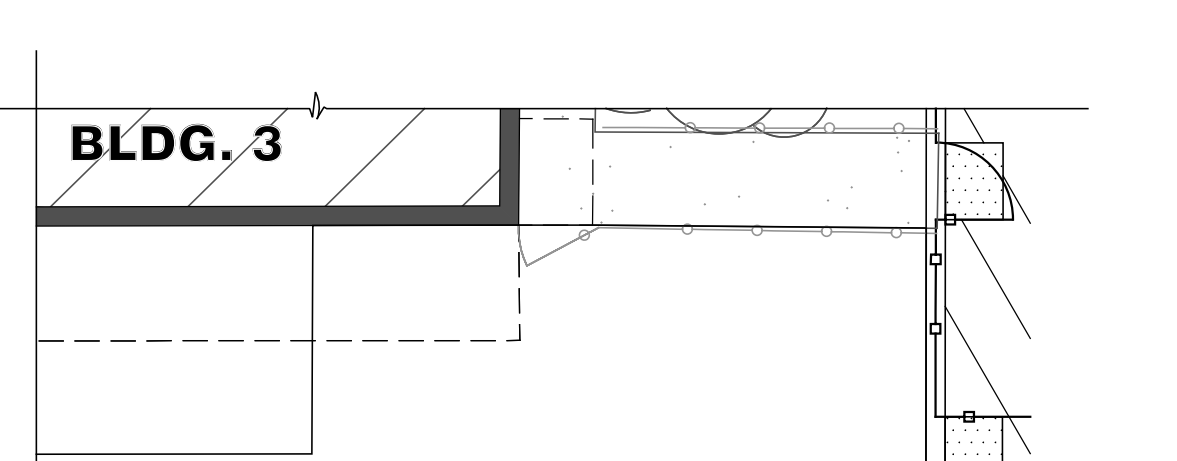
9 ACCESSIBLE PARKING
 SCALE: 1/8" = 1'-0"



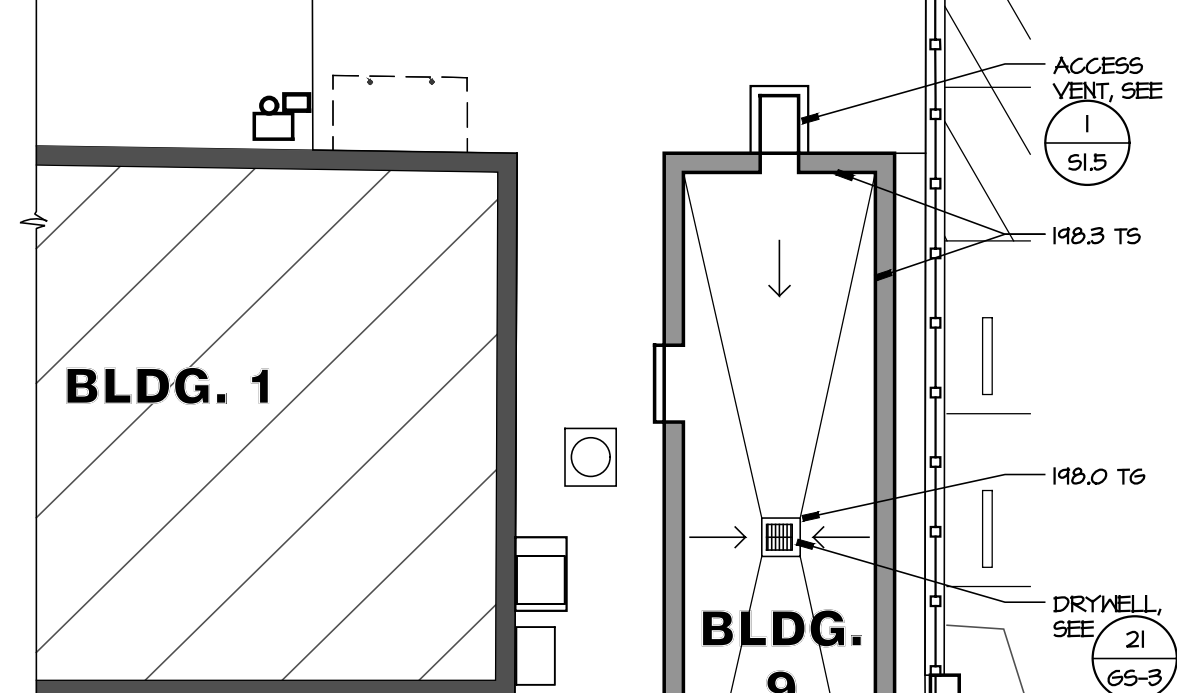
3 RAT SLAB PLAN
 SCALE: 1" = 10'-0"



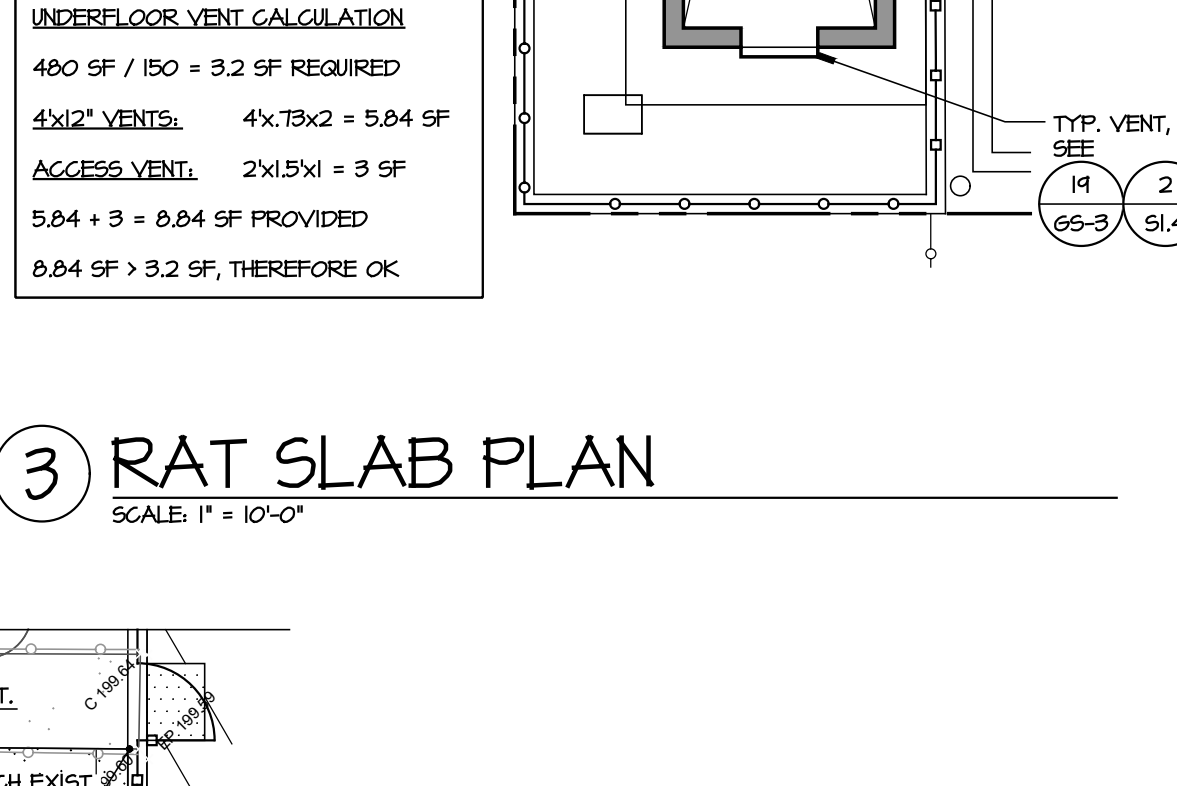
6 ENLARGED GRADING PLAN
 SCALE: 1" = 10'-0"



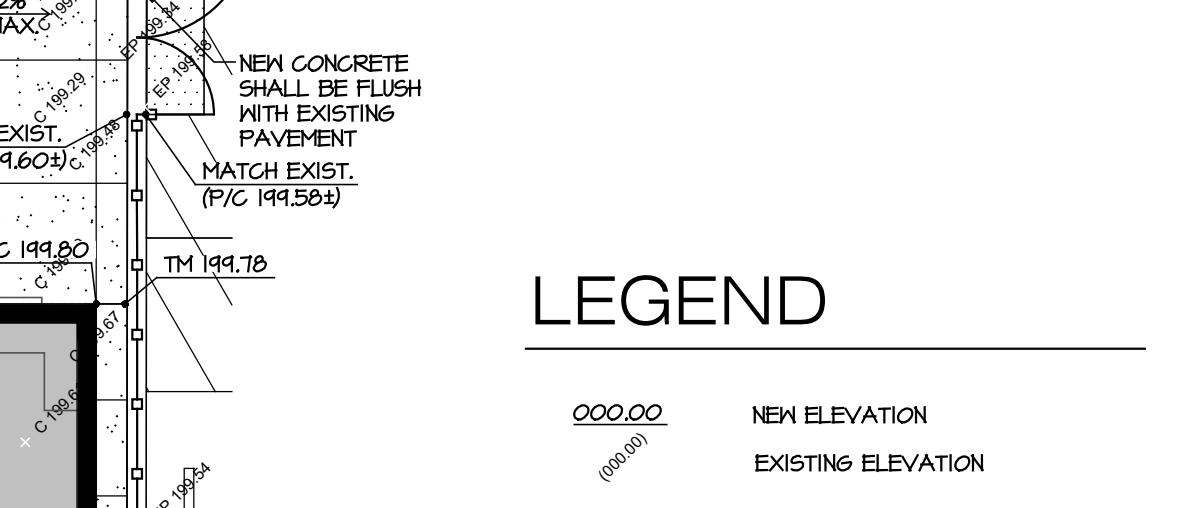
3 RAT SLAB PLAN
 SCALE: 1" = 10'-0"



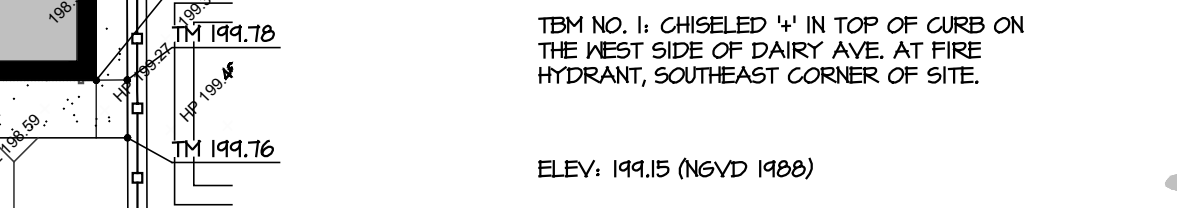
9 ACCESSIBLE PARKING
 SCALE: 1/8" = 1'-0"



3 RAT SLAB PLAN
 SCALE: 1" = 10'-0"



6 ENLARGED GRADING PLAN
 SCALE: 1" = 10'-0"



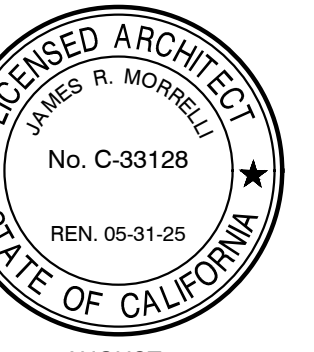
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TITLE
 ENLARGED SITE PLANS
 DETAILS

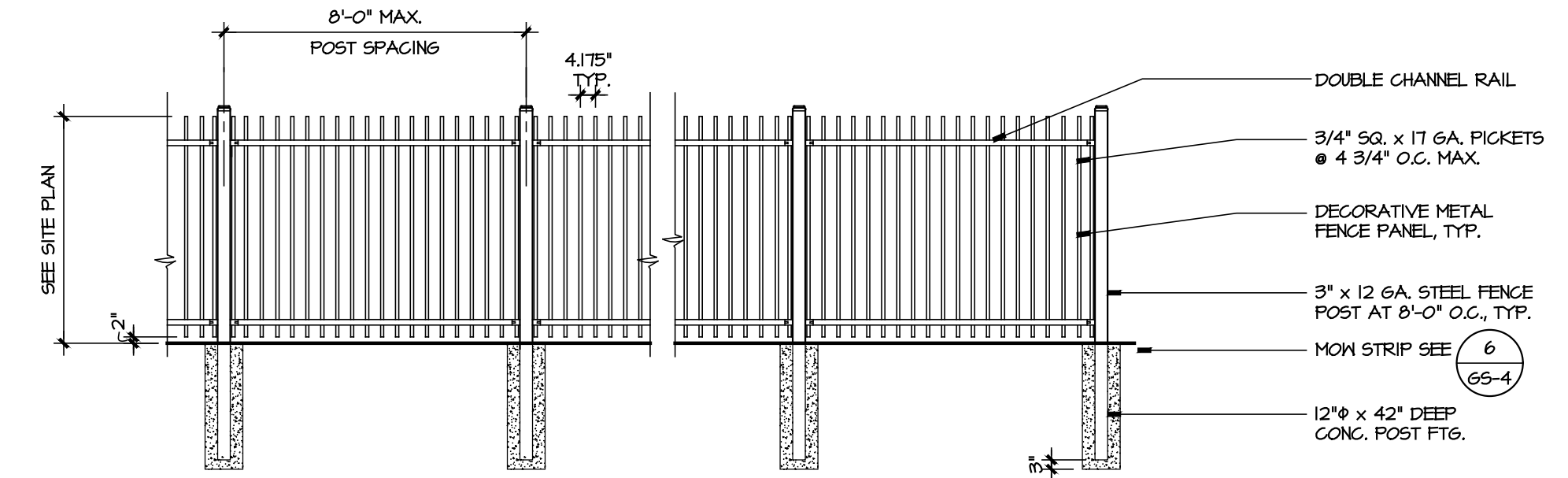
GS-3

PROJECT 2143

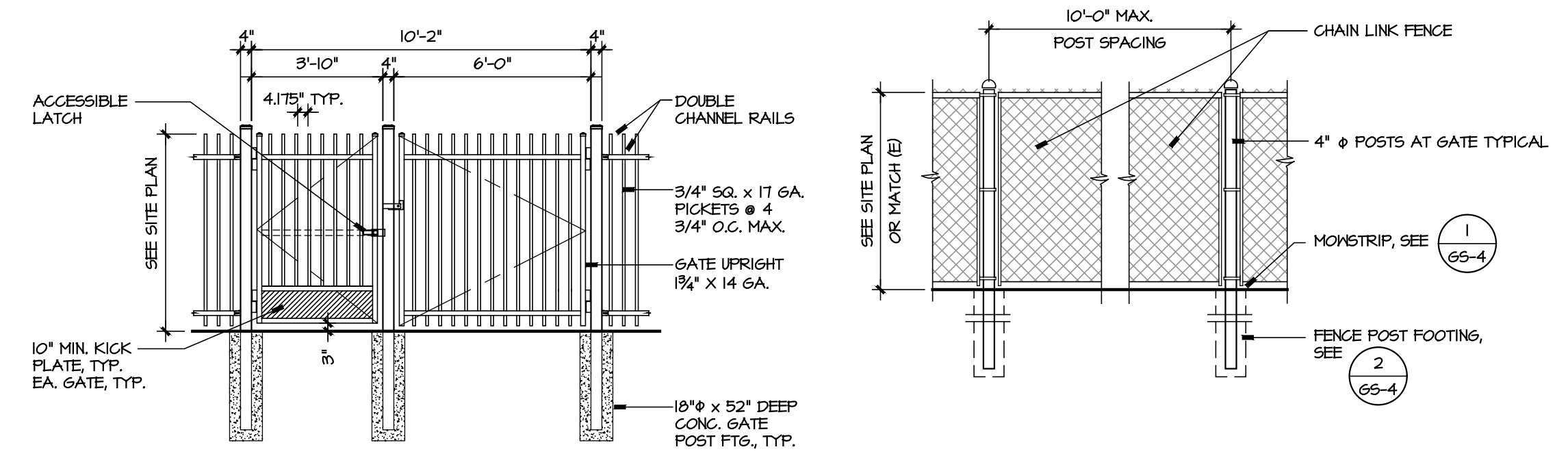


DATE: AUGUST 1, 2022

NEW MODULAR FOOD SERVICE BUILDING AT KINGS LAKE EDUCATION CENTER
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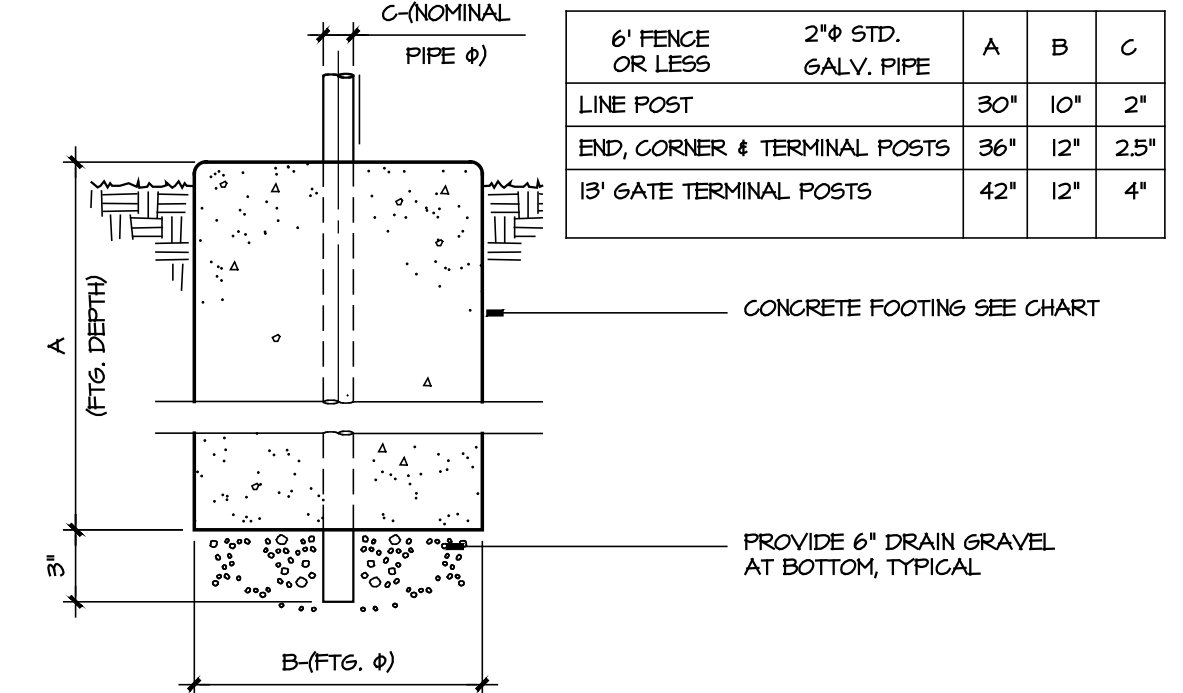


9 TYP. DECORATIVE METAL FENCE ELEVATION
SCALE: 1/4" = 1'-0"

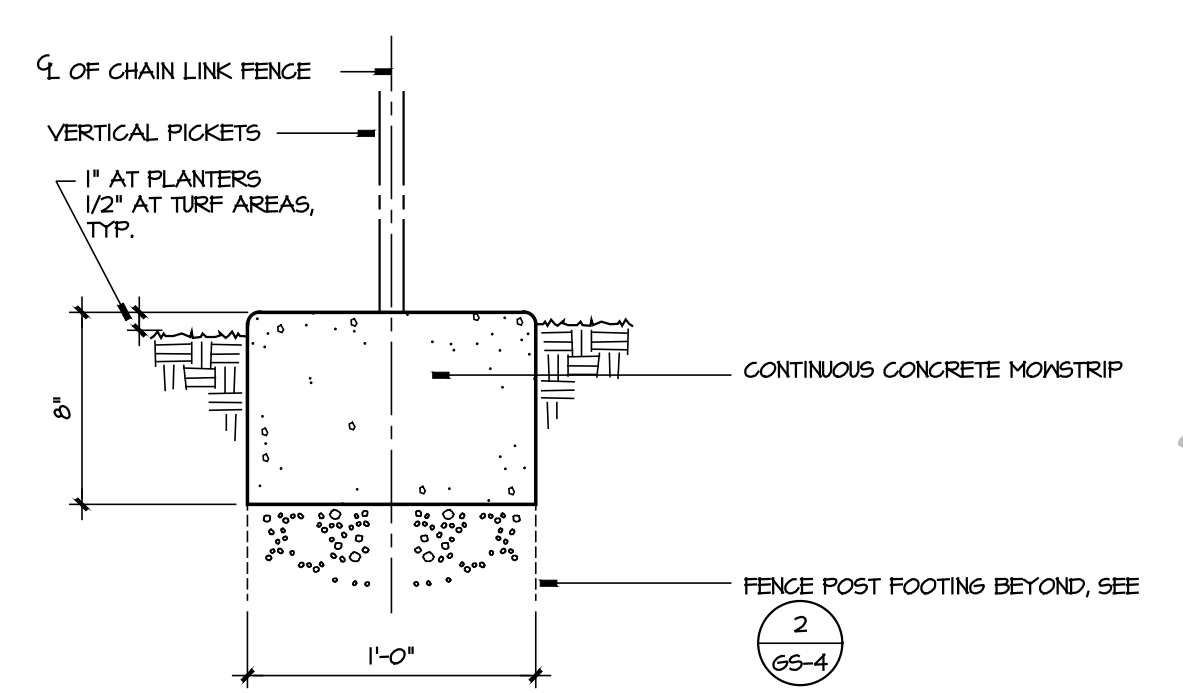


8 MTL. DBL. LEAF GATES
SCALE: 1/4" = 1'-0"

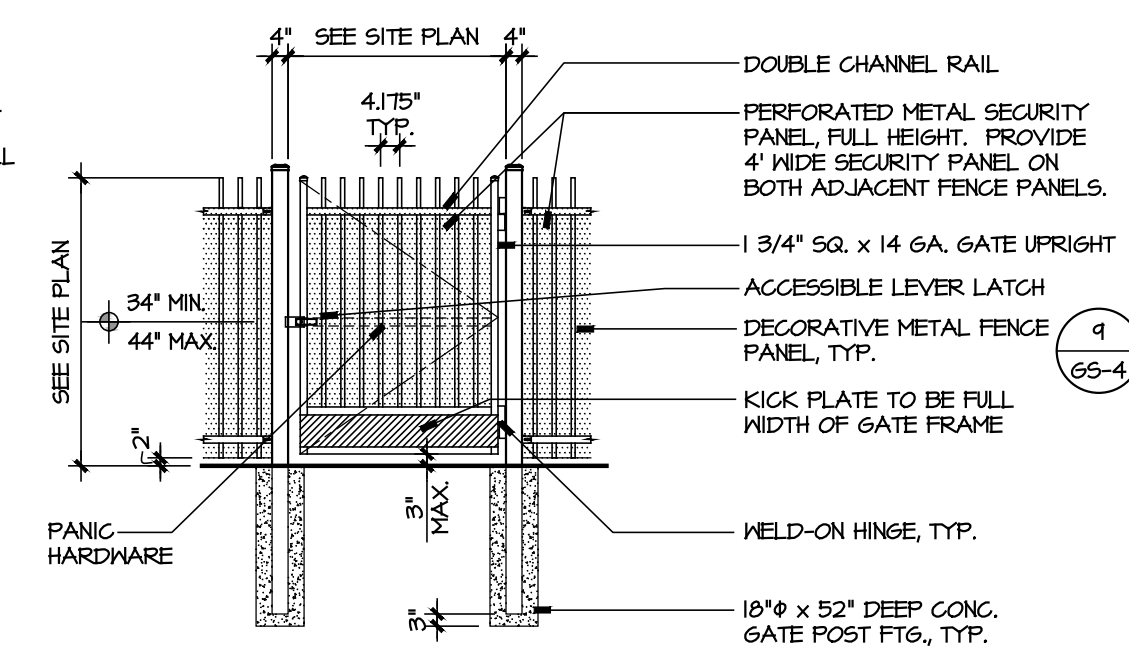
3 TYP. C.L. FENCE ELEVATION
SCALE: 1/4" = 1'-0"



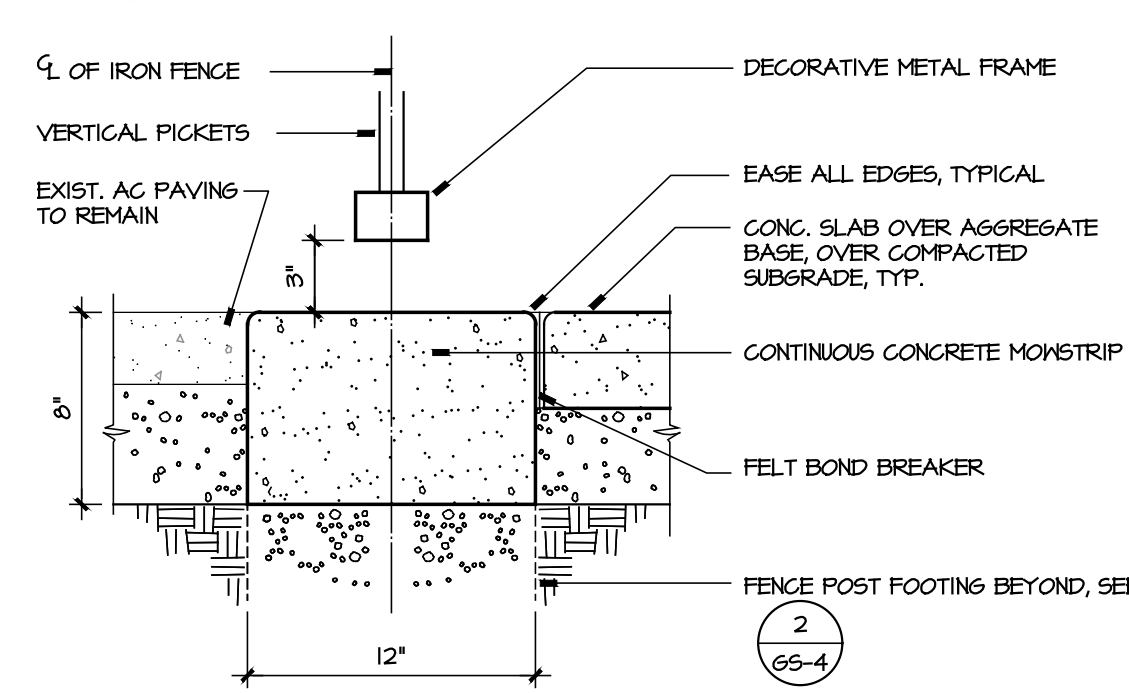
2 C.L. FENCE POST FOOTING
SCALE: 1 1/2" = 1'-0"



1 FENCE MOW STRIP
SCALE: 1 1/2" = 1'-0"



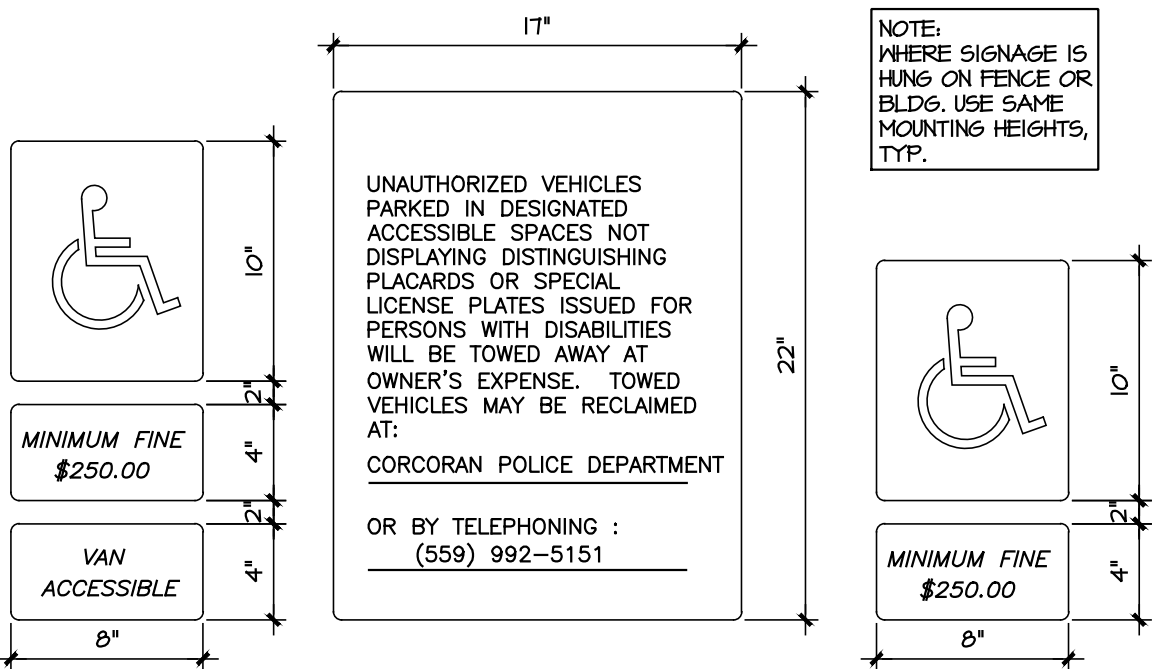
7 METAL SINGLE LEAF GATE
SCALE: 1/4" = 1'-0"



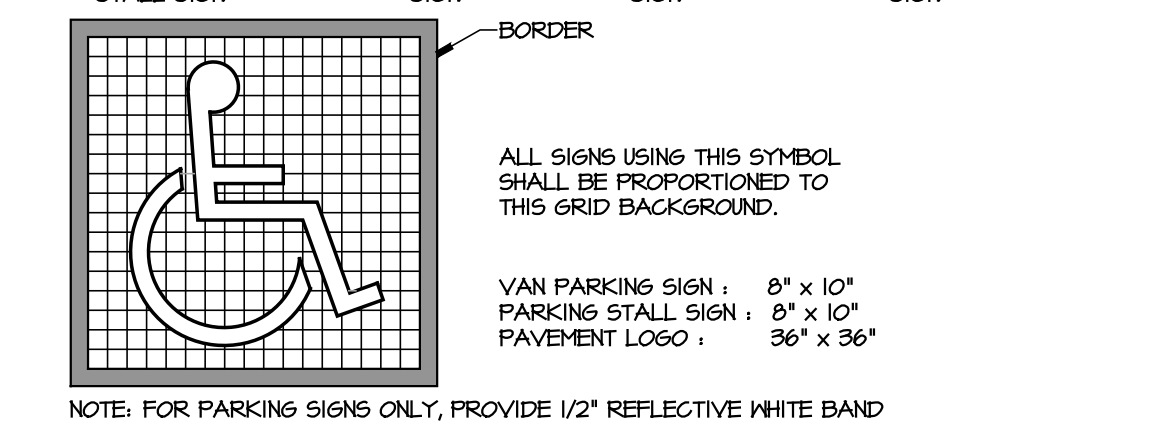
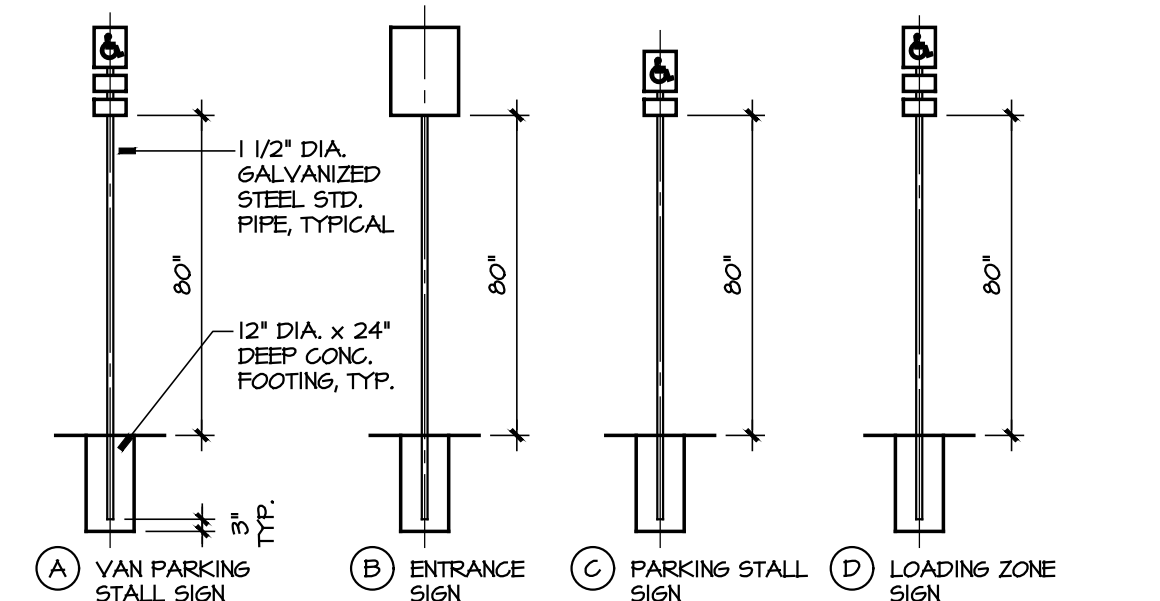
6 FENCE MOW STRIP
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES :
1) SIGNS TO BE REFLECTORIZED AND EQUAL TO PORCELAIN ON STEEL WITH BEADED TEXT.
2) TEXT SHALL BE PROPORTIONED TO GIVEN OVERALL SIGN DIMENSIONS. SEE SIGN DESCRIPTIONS BELOW FOR SYMBOL OR TEXT.

SIGN DESCRIPTIONS :



- A VAN PARKING STALL SIGN**
TOP SIGN TO BE TYPE (C) WITH SYMBOL OF ACCESSIBILITY & BOTTOM SIGN SHALL READ AS NOTED ABOVE.
- B ENTRANCE SIGN**
PER CBC 11B-502.2.2, SIGN TO READ AS NOTED ABOVE WITH LETTERING HEIGHT OF 1" MIN.
- C CAR PARKING STALL SIGN**
SIGN TO SHOW SYMBOL OF ACCESSIBILITY & TEXT SHALL READ "MINIMUM FINE \$250"
- D LOADING ZONE SIGN**
TOP SIGN TO BE TYPE (C) WITH SYMBOL OF ACCESSIBILITY & BOTTOM SIGN SHALL READ "LOADING ZONE ONLY"



11 SITE SIGNAGE
SCALE: 1/4" = 1'-0"

REVISIONS

1		
2		
3		
4		

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TITLE
DETAILS

GS-4

PROJECT **2143**

19 December 2022 2:11 PM P:\2021\1172 corcoran kings lake ed center food service part06A\4-drawings\5_P1.0 - OVERALL SITE PLAN.dwg david s

GENERAL PLUMBING NOTES:

1. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE 2019 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WOULD NOT COMPLY WITH SAID TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUESTED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
2. THE APPLICABLE CODES AND REGULATIONS FOR THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

CALIFORNIA CODE OF REGULATIONS
 TITLE 8, INDUSTRIAL RELATIONS
 TITLE 19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
 TITLE 24, PART 1, ADMINISTRATIVE REGULATIONS
 2019 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 CCR
 2019 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR
 2019 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR
 2019 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 CCR
 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR
 NFPA 101 2018 EDITION
 OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT

3. LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE PLUMBING BUILDING PLANS HAVE BEEN PREPARED TO MATCH THE ARCHITECTURAL PLANS. IF DIFFERENCES OCCUR, THE ARCHITECTURAL PLANS ARE TO TAKE PRECEDENCE. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK, TO AVOID ALL INTERFERENCE WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS. ALL PIPE OFFSET ELBOWS FOR COORDINATION BETWEEN TRADES ARE NOT SHOWN. CONTRACTOR SHALL INCLUDE SUFFICIENT FUNDS FOR THE COORDINATION OFFSETS IN THE BID. 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 INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.

4. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER-DRIVEN PINS IN EXISTING NON-PRESTRESSED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRE-STRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

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

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY 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.

- 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 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, 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 SHOWN 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.

MP MD PP A. OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP MD PP B. OPTION 2: PLUMBING PIPING (PP) - SHALL COMPLY WITH OPM-0043-13 OSHPD PRE-APPROVAL (MASON WEST, SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS).

6. BRACE ALL PIPING 3" DIAMETER AND GREATER. USE $I_p=1.0$ FOR SEISMIC DESIGN CALCULATIONS. EXCEPTION: NATURAL GAS PIPING 1" DIAMETER AND GREATER, USE $I_p=1.5$ FOR SEISMIC DESIGN CALCULATIONS.

7. PENETRATIONS THROUGH FIRE RATED WALLS, FLOOR/CEILING, AND ROOF/CEILING ASSEMBLIES SHALL BE SEALED USING AN APPROVED SYSTEM CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC TO FIRE STOPS PER 2019 CBC SECTION 714. THIS INCLUDES EXISTING PIPE AND CONDUIT THROUGH NEW ASSEMBLIES. CUSTOM DESIGNED SYSTEMS WHICH COMBINE COMPONENTS FROM DIFFERENT APPROVED SYSTEMS BUT HAVE NOT BEEN TESTED AS A COMPLETE ASSEMBLY WILL NOT BE ACCEPTABLE. FOR FIRE STOPS FOR PIPE PENETRATIONS SEE SPECIFICATIONS.

8. FIELD VERIFY THE EXACT LOCATION, DEPTH AND SIZE OF ALL NEW POINTS OF CONNECTION TO EXISTING UTILITIES PRIOR TO COMMENCING NEW UTILITY WORK.

9. INSTALLATION OF NEW UTILITIES FROM EXISTING MAINS IN THE STREET SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.

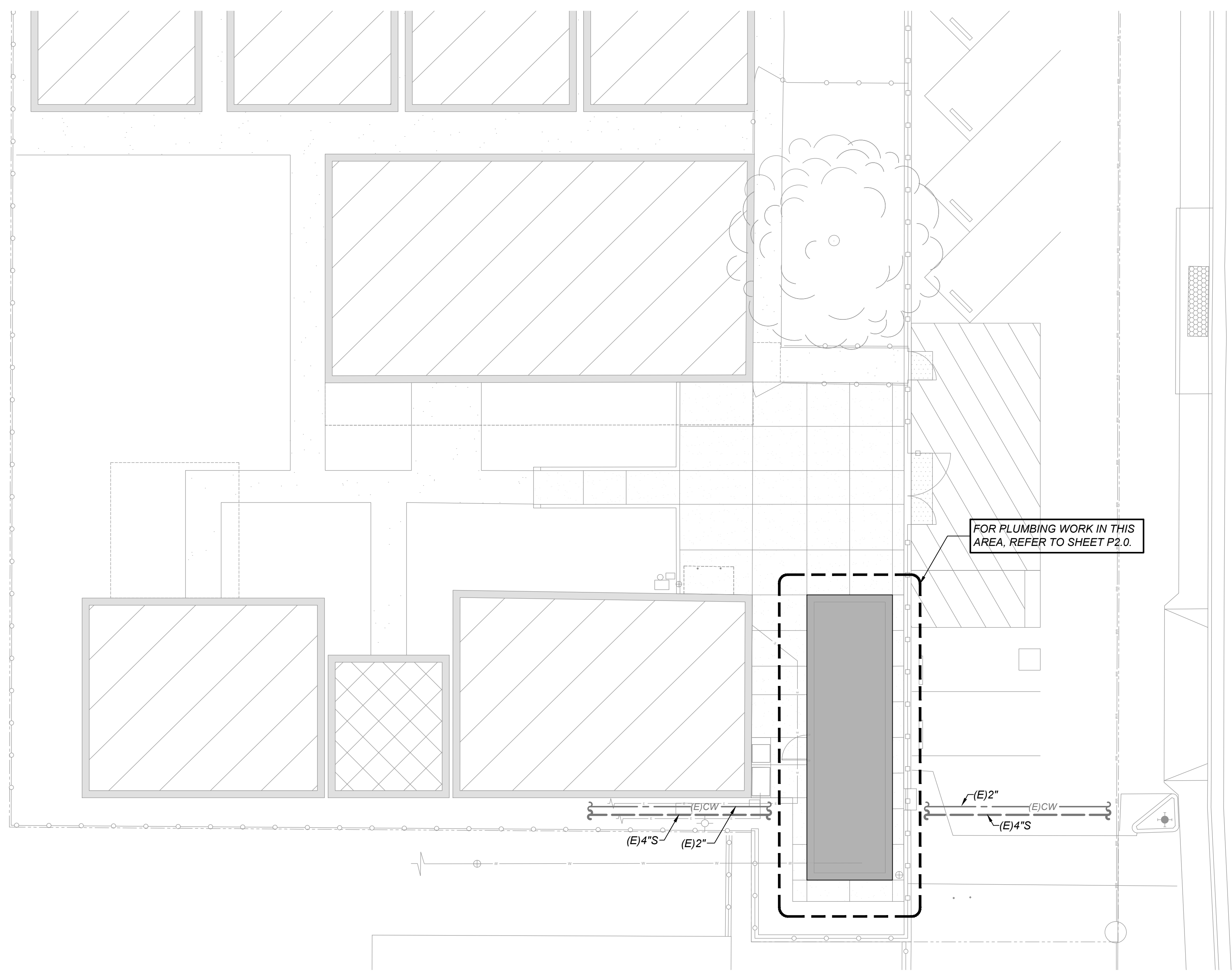
10. INSTALLATION, TYPE AND MANUFACTURERS MODELS OF DOMESTIC WATER METERS, BACKFLOW PREVENTERS, FIRE HYDRANTS, DETECTOR CHECK VALVES, MANHOLES, DRAIN INLETS/OUTLETS AND OTHER APPURTENANCE OF SITE UTILITY SYSTEMS SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.

11. CONTRACTOR SHALL EXCAVATE AND BACKFILL THE GAS SERVICE TRENCH FOR THE LOCAL GAS UTILITY. THE LOCAL GAS UTILITY SHALL INSTALL THEIR GAS SERVICE LINE TO THE GAS METER. TRENCHING SHALL BE IN ACCORDANCE WITH UTILITY STANDARDS. ALL CHARGES AND FEES INCURRED BY THE UTILITY FOR NEW GAS SERVICE SHALL BE PAID BY THE CONTRACTOR.

12. ALL DOMESTIC WATER PIPING SHALL BE A MINIMUM OF 1/2" SIZE UNLESS NOTED OTHERWISE. USE A REDUCING DROP ELL AT FIXTURE CONNECTION WHEN APPLICABLE.

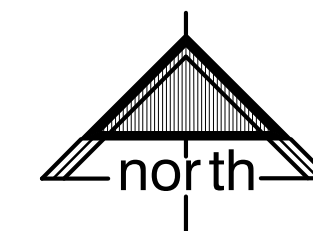
13. BACKFLOW PREVENTER SHALL BE INSTALLED AT THE MINIMUM HEIGHT ABOVE FINISH GRADE AS ALLOWED BY GOVERNING AUTHORITY.

14. RUN A BLUE 18 GAUGE TRACE WIRE WITH NON-METALLIC DOMESTIC WATER SERVICE. TERMINATE ABOVE GRADE AT EACH END.

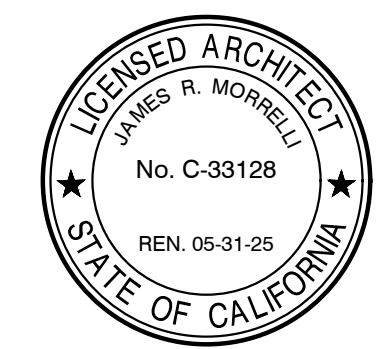


PLUMBING SITE PLAN

SCALE: 1" = 10'-0"



PLUMBING LEGEND		
SYMBOL	ITEM	ABBR
---	SOIL or WASTE	S or W
----	VENT	V
----	VENT RISER	VR
----	VENT THRU ROOF	VTR
----	DOMESTIC COLD WATER	CW
----	DOMESTIC HOT WATER	HW
----	DOMESTIC HOT WATER RETURN	HWR
G	LOW PRESSURE NATURAL GAS	G
2#G	2 PSI GAS	2#G
5#G	5 PSI GAS	5#G
GSM	GAS SERVICE MAIN BY THE LOCAL GAS UTILITY	GSM
C	CONDENSATE DRAIN	CD
RWL	RAIN WATER LEADER	RWL
OD	OVERFLOW DRAIN	OD
SD	STORM DRAIN	SD
IW	INDIRECT WASTE	IW
F	FIRE PROTECTION LINE	F
---	EXISTING PIPING	(E)
(E)	EXISTING	
(N)	NEW	
ABV CLG	ABOVE CEILING	ABV CLG
BEL FLR	BELOW FLOOR	BEL FLR
BEL GR	BELOW GRADE	BEL GR
TYP	TYPICAL	TYP
CONT	CONTINUATION	CONT
DN	DOWN	DN
FCO	FLOOR CLEANOUT	FCO
COTG	CLEANOUT TO GRADE	COTG
WCO	WALL CLEANOUT	WCO
	PIPING TURN UP	
	PIPING TURN DOWN	
POC	POINT OF CONNECTION	POC
SOV	SHUT-OFF VALVE IN BOX	SOV
SOV	SHUT-OFF VALVE	SOV
-	SHUT-OFF VALVE IN RISER	-
-	SHUT-OFF VALVE IN DROP	-
-	GATE VALVE	-
-	BUTTERFLY VALVE	-
-	GLOBE VALVE	-
-	CHECK VALVE	-
-	PLUG VALVE	-
-	BALL VALVE	-
-	BALANCE COCK	-
-	REDUCER	-
MH	MANHOLE	MH
FL	FLOW LINE	FL
-	UNION	-
-	RELIEF VALVE	-
-	BALANCING VALVE	-



DATE: AUGUST 1, 2022

NEW MODULAR FOOD SERVICE BUILDING AT KINGS LAKE EDUCATION CENTER
 CORCORAN JOINT UNIFIED SCHOOL DISTRICT
 1128 S. DAIRY AVENUE, CORCORAN, CA 93212

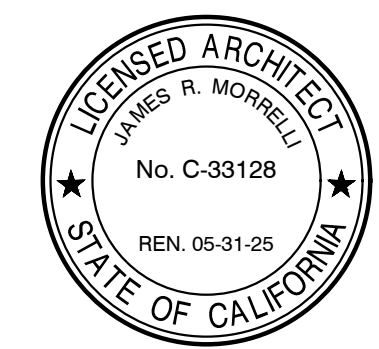
REVISIONS

MANGINI ARCHITECTURE
 INGENUITY
 McLain BARENG MORRELL SCOTT
 www.mangini.us
 (559) 627-0530 office
 (559) 627-1520 fax



LAWRENCE ENGINEERING GROUP
 7084 N. Maple Ave., Suite 101 Fresno, CA 93720
 (559) 431-0101 21172 FAX (559) 431-1362

TITLE
 PLUMBING SITE PLAN
 PROJECT **P1.0**
 2143



DATE: AUGUST 1, 2022

NEW MODULAR FOOD SERVICE BUILDING AT KINGS LAKE EDUCATION CENTER
CORCORAN JOINT UNIFIED SCHOOL DISTRICT
1128 S. DAIRY AVENUE, CORCORAN, CA 93212

NO.	DATE	DESCRIPTION

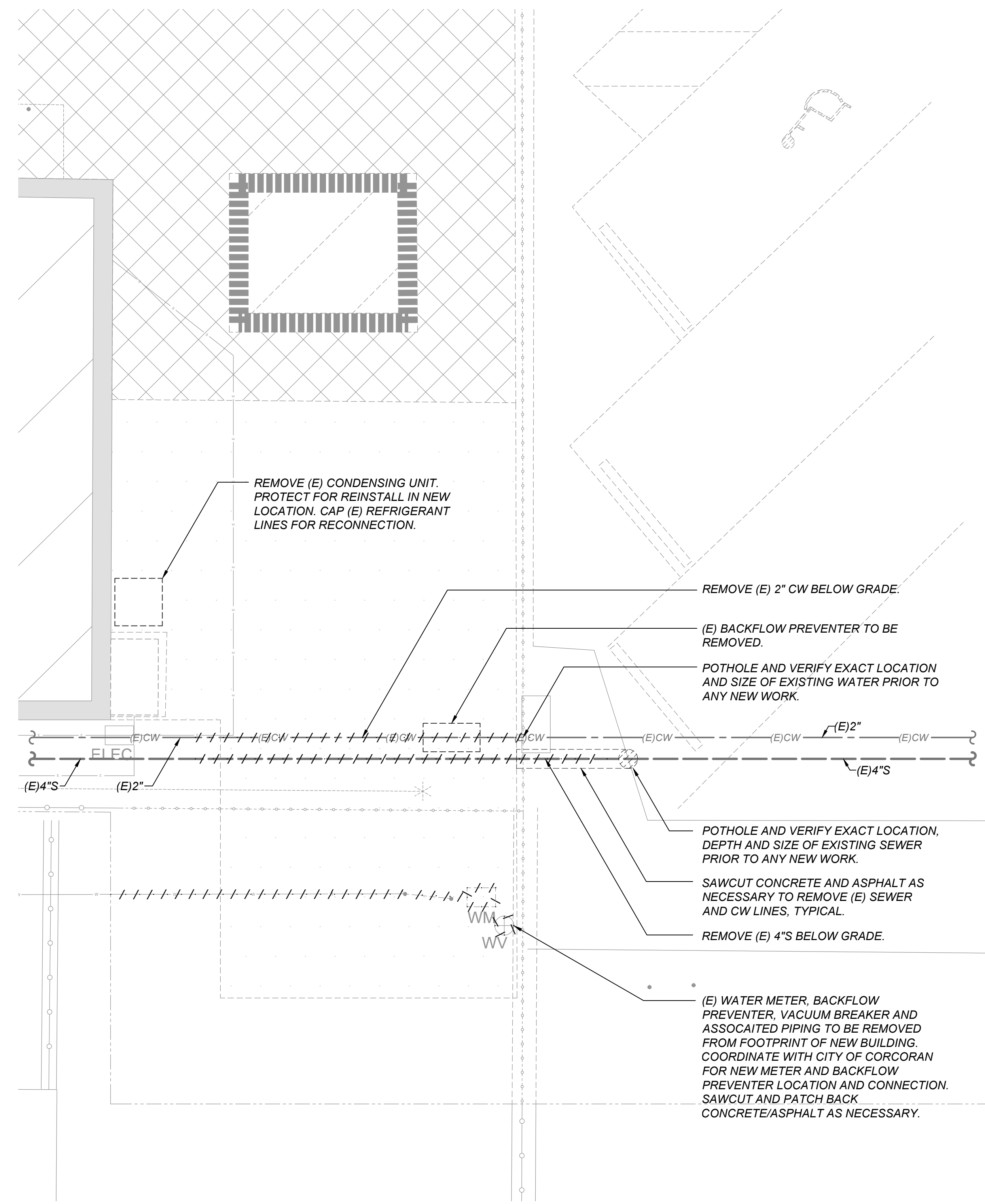
MANGINI ARCHITECTURE
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McLAIN BARENG MORRELLI SCOTT
www.mangini.us
MANGINI ASSOCIATES INC.
4320 West Mineral King Avenue
Van Nuys, California 91411
(818) 717-1320 Fax

TITLE
PLUMBING DEMO & NEW SITE PLAN

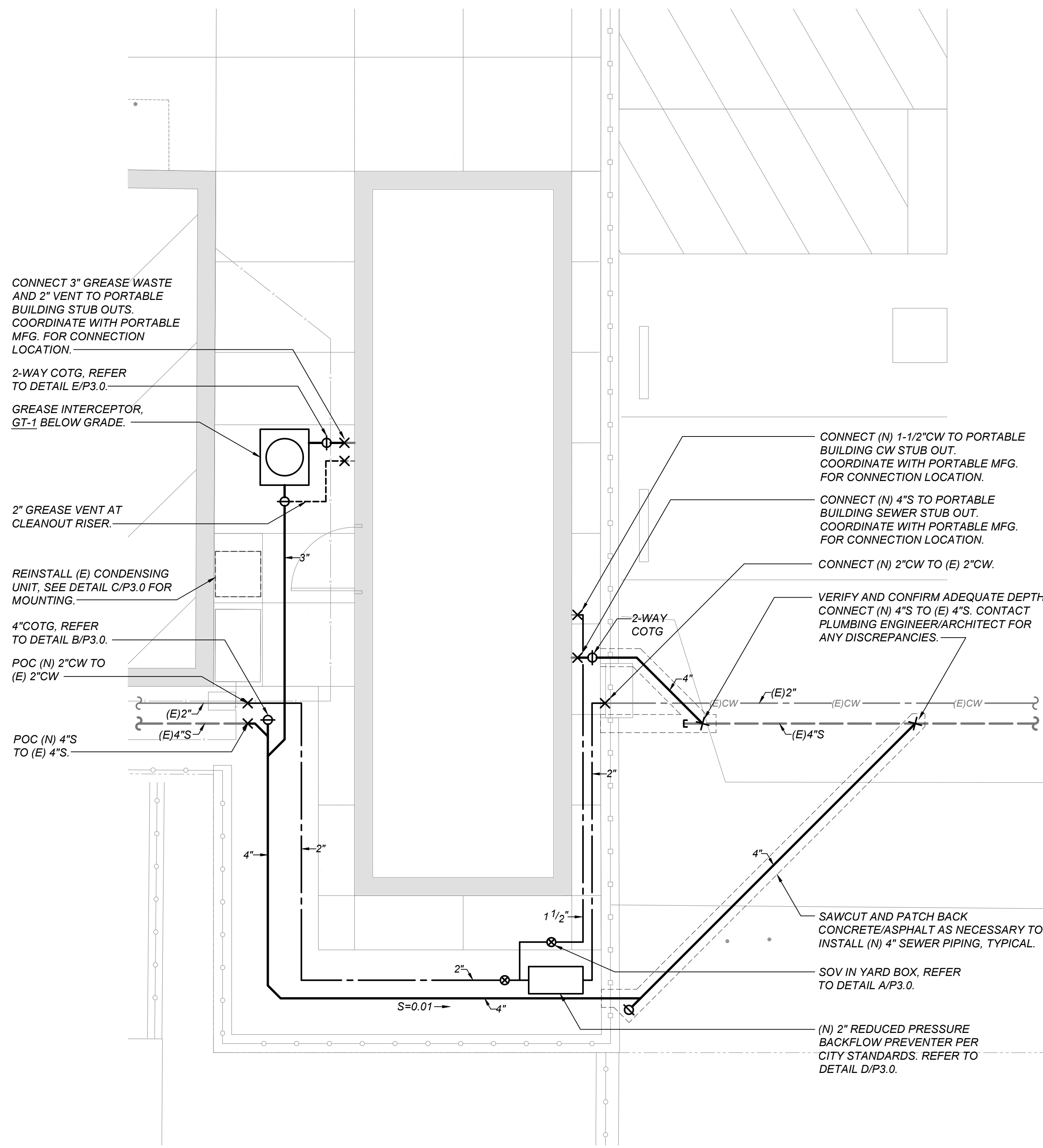
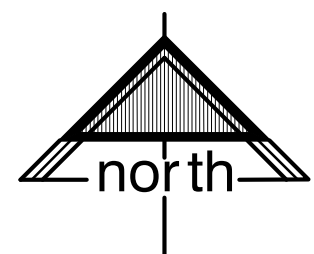
P2.0
PROJECT **2143**



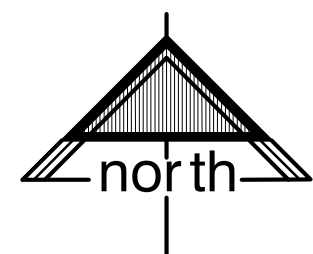
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(559) 431-0101 21172 FAX (559) 431-1362



PLUMBING DEMOLITION SITE PLAN
SCALE: 1/4" = 1'-0"



PLUMBING SITE PLAN
SCALE: 1/4" = 1'-0"



19 December 2022 2:11 PM P:\2021\21172 corcoran kings lake ed center food service portable\4-drawings\5 P\P2.0 - DEMO & NEW SITE PLAN.dwg dmsd s

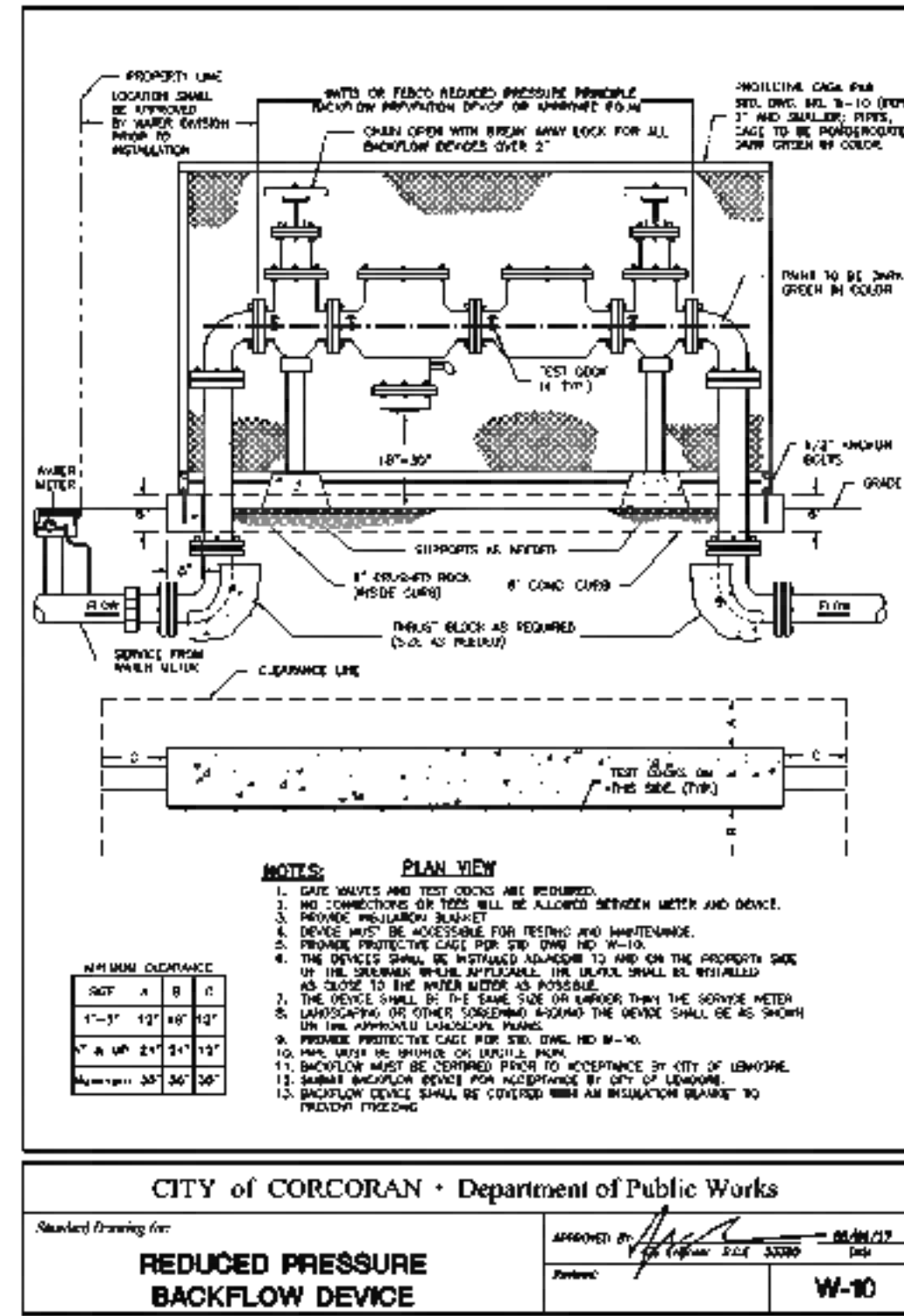
PLUMBING SPECIFICATIONS:

- CODES AND REGULATIONS:** ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

 - A. CALIFORNIA BUILDING CODE - CBC - 2019
 - B. CALIFORNIA PLUMBING CODE - CPC - 2019
 - C. CALIFORNIA FIRE CODE - CFC - 2019
 - D. CALIFORNIA CODE OF REGULATIONS, TITLE 8, INDUSTRIAL RELATIONS
 - E. CALIFORNIA CODE OF REGULATIONS, TITLE 24, BUILDING STANDARDS
 - F. TITLE 24, PART 11, CALIFORNIA GREEN BUILDING CODE, 2019 EDITION
 - G. LEAD FREE: ALL EQUIPMENT, FIXTURES, VALVES AND FIXTURE STOPS PROVIDING WATER FOR HUMAN CONSUMPTION INSTALLED AFTER JANUARY 1, 2010, MUST MEET THE 'LEAD FREE' REQUIREMENTS FOR THE STATE OF CALIFORNIA.
- PERMIT AND INSPECTION CHARGES:** OBTAIN ALL PERMITS REQUIRED FOR PERFORMING WORK AND PAY ALL RELATED FEES. CALL FOR ALL REQUIRED INSPECTIONS AND PAY ALL RELATED FEES.
- GUARANTEE:** THE CONTRACTOR SHALL REPAIR ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THERE FROM WHICH APPEARS WITHIN A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF WORK.
- MATERIALS, EQUIPMENT AND INSTALLATION:** EACH ITEM REFERRED TO ON THE DRAWINGS AND IN THE SPECIFICATIONS REPRESENTS THE STANDARD OF QUALITY DESIRED FOR MATERIALS, EQUIPMENT AND INSTALLATION. ALL SUBSTITUTIONS MUST BE REVIEWED IN WRITING BY THE ENGINEER. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND FREE FROM DEFECTS. ALL INSTALLATIONS SHALL BE AS RECOMMENDED BY THE MANUFACTURER AND AS SHOWN ON DRAWINGS.
- SUBMITTALS:** WITHIN 30 DAYS OF CONTRACT AWARD, THE CONTRACTOR SHALL SUBMIT THREE COPIES OF SHOP DRAWINGS FOR ALL MATERIALS, EQUIPMENT, ETC. PROPOSED FOR USE ON THIS PROJECT. MATERIAL OR EQUIPMENT SHALL NOT BE ORDERED OR INSTALLED UNTIL WRITTEN REVIEW IS PROCESSED BY THE ENGINEER. ANY ITEM OMITTED FROM THE SUBMITTAL SHALL BE PROVIDED AS SPECIFIED WITHOUT SUBSTITUTION.
- UNDERGROUND PIPING:** ALL FERROUS PIPING BELOW GRADE (EXCEPT CAST IRON) SHALL HAVE PROTECTIVE COATING OF "X-TRU-COAT". MINIMUM COVER FOR ALL BELOW GRADE PIPING SHALL BE 24".
- EXCAVATION AND BACKFILL:**

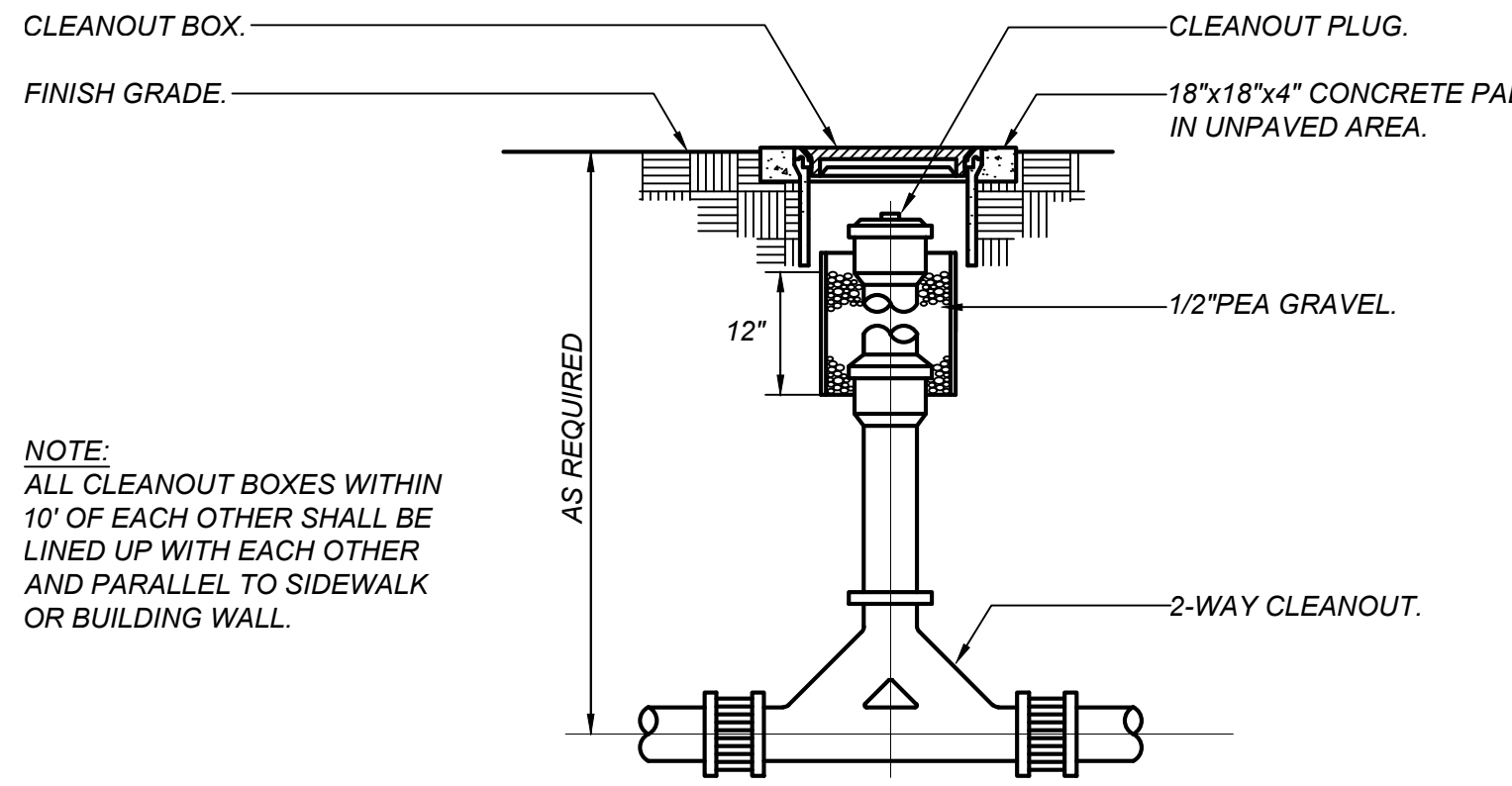
 - A. **GENERAL:** UNLESS OTHERWISE NOTED, MINIMUM EARTH COVER ABOVE TOP OF PIPE OR TUBING OUTSIDE BUILDING WALLS SHALL BE 24", NOT INCLUDING BASE AND PAVING IN PAVED AREAS. BARREL OF PIPE SHALL HAVE UNIFORM SUPPORT ON SAND BED. SAND SHALL BE FREE FROM CLAY OR ORGANIC MATERIAL, SUITABLE FOR THE PURPOSE INTENDED AND SHALL BE OF SUCH SIZE THAT 90 PERCENT TO 100 PERCENT WILL PASS A NO. 4 SIEVE AND NOT MORE THAN 5 PERCENT WILL PASS A NO. 200 SIEVE.
 - B. **EXCAVATION:** WIDTH OF TRENCHES AT TOP OF PIPE SHALL BE MINIMUM OF 16" PLUS THE OUTSIDE DIAMETER OF THE PIPE. PROVIDE ALL SHORING REQUIRED BY SITE CONDITIONS. WHERE OVER EXCAVATION OCCURS, PROVIDE COMPACTED SAND BACKFILL TO PIPE BOTTOM. WHERE GROUNDWATER IS ENCOUNTERED, REMOVE TO KEEP EXCAVATION DRY, USING WELL POINTS AND PUMPS AS REQUIRED.
 - C. **BACKFILL:**
 - 1. 6" BELOW, AROUND, AND TO 12" ABOVE PIPE: MATERIAL SHALL BE SAND. PLACE CAREFULLY AROUND AND ON TOP OF PIPE, TAKING CARE NOT TO DISTURB PIPING. CONSOLIDATE WITH VIBRATOR.
 - 2. ONE FOOT ABOVE PIPE TO GRADE: MATERIAL SHALL BE SANDY OR SILTY LOAM, FREE OF LUMPS, LAID IN 6" LAYERS, UNIFORMLY MIXED TO PROPER MOISTURE AND COMPACTED TO REQUIRED DENSITY. IF BACKFILL IS DETERMINED TO BE SUITABLE AND REQUIRED COMPACTION IS DEMONSTRATED BY LABORATORY TEST, WATER COMPACTION IN 6" LAYERS MAY BE USED. SUBJECT TO REVIEW BY ENGINEER.
 - D. **COMPACTION:** COMPACT TO DENSITY OF 95% WITHIN BUILDING AND UNDER WALKWAYS, DRIVEWAYS, TRAFFIC AREAS, PAVED AREAS, ETC. AND TO 80% ELSEWHERE. DEMONSTRATE PROPER COMPACTION BY TESTING AT TOP, BOTTOM AND ONE-HALF OF THE TRENCH DEPTH. PERFORM THESE TESTS AT THREE LOCATIONS PER 100' OF TRENCH.
- PIPING LAYOUT:** ROUTE PIPING TO AVOID CUTTING STRUCTURAL MEMBERS. WHERE CUTTING OR NOTCHING IS REQUIRED, THE STRUCTURAL MEMBER SHALL BE REINFORCED IN ACCORDANCE WITH THE UNIFORM BUILDING CODE. PIPING SHALL BE INSTALLED TO ENSURE UNRESTRICTED FLOW, ELIMINATE AIR POCKETS, PREVENT UNUSUAL NOISE AND PERMIT COMPLETE DRAINAGE OF THE SYSTEM. PROVIDE INDIVIDUAL SHUT OFF VALVES AT EACH FIXTURE AND EQUIPMENT ITEM.
- PIPING MATERIALS:**

 - A. **DOMESTIC WATER PIPING:**
 - 1. WITHIN FIVE FEET OF BUILDING WALLS AND ALL ABOVE GRADE: HARD TEMPER SEAMLESS COPPER, ASTM B80. WROUGHT COPPER FITTINGS, ANSI B16.22, TYPE 1 WITH BRAZED JOINTS (1100F, MIN.), 1/2" AND SMALLER ABOVE GRADE MAY BE SOLDERED. LEAD-FREE SOLDER. ALL NIPPLES SHALL BE LEAD-FREE RED BRASS (85% COPPER). ABOVE GRADE FITTINGS MAY BE COPPER PRESS FITTINGS, ASME B16.16 OR ASME B16.22. EPDM O-RINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROGRESS.
 - 2. OUTSIDE BUILDING - BELOW GRADE: SCHEDULE 80 POLYVINYL CHLORIDE (PVC), ASTM D1785, WITH SCHEDULE 80 PVC SOLVENT WELD FITTINGS, ASTM D2486 WHERE APPROVED BY ADMINISTRATIVE AUTHORITY.
 - B. **SOIL WASTE & VENT PIPING:**
 - 1. ABOVE GRADE AND WITHIN FIVE FEET OF BUILDING WALLS: STANDARD WEIGHT COATED CAST IRON PIPE AND FITTINGS. PLAIN END, CISPI 301, ASTM A888. ABI, TYLER, CHARLOTTE. COUPLINGS SHALL BE HEAVY-DUTY SHIELDED COUPLINGS, TYPE 304 STAINLESS STEEL WITH NEOPRENE GASKET. ASTM C-1540. HUSKY HD 2000. CLAMP-ALL 80. MG COUPLING. BELOW GRADE CAST IRON PIPE AND FITTINGS SHALL HAVE 8 MIL (MINIMUM) POLYETHYLENE ENCASEMENT (POLY WRAP), PER ANSI/AWWA C105/A21.5.
 - 2. OUTSIDE BUILDING - BELOW GRADE: POLYVINYL CHLORIDE (PVC), SDR-35, ASTM D3034. SOLVENT WELD, WITH PVC SOLVENT WELD FITTINGS. PIPING WITHIN 10 FEET OF WATER PIPING SHALL BE SOLID WALL SCHEDULE 40 PVC, ASTM D1785, D2665, WITH SOLVENT WELD DWV FITTINGS, ASTM D2965, D3311. PIPING WITH LESS THAN 24" OF COVER OUTSIDE BUILDING WALLS SHALL BE CAST IRON.
- GATE VALVE:** 2" AND SMALLER: ALL BRONZE, NON-RISING STEM, THREADED BONNET, WEDGE DISK, MALLEABLE IRON HANDWHEEL, 200 PSI CWP, NIBCO T-113-LF, 2-1/2" AND LARGER: IRON BODY, BRONZE MOUNTED, NON-RISING STEM, RESILIENT WEDGE DISK, 200 PSI CWP, FLANGED OR AWWA HUB END AS APPLICABLE. NIBCO F-619-RWS UNDERGROUND VALVES SHALL HAVE SQUARE OPERATING NUT.
- PIPE INSULATION (MAXIMUM THERMAL CONDUCTIVITY - 0.25 BTU-IN-HR-FT²-F):** ALL INSULATION MATERIALS SHALL BE 25/50 RATED, INSULATE COLD WATER PIPING EXPOSED TO WEATHER FOR FREEZE PROTECTION WITH 1" THICK FIBERGLASS WITH ALL SERVICE JACKET. COVER WITH ALUMINUM JACKETING AND SEAL WATER TIGHT WITH SILICONE SEALANT.
- FIXTURES:** ALL FIXTURES SHALL BE WHITE UNLESS OTHERWISE NOTED. ALL FIXTURES SHALL BE FURNISHED AND INSTALLED COMPLETE WITH TRIM, SEALS, CARRIERS, STOPS, TRAPS, ETC. STOPS SHALL BE F.I.P. INLET. CAULKING SHALL BE WHITE SILICONE SEALANT, MILDEW RESISTANT, G.E. "SANITARY 90S1700".
- VALVE AND CLEANOUT BOX:** PRECAST REINFORCED CONCRETE. CAST IRON LID MARKED FOR SERVICE. CHRISTY F22 IN FOOT TRAFFIC AREAS; G6 IN ROADWAYS.
- DISINFECT ALL DOMESTIC WATER PIPING SYSTEMS** IN ACCORDANCE WITH 2019 CPC SECTION 609.9, AND IN ACCORDANCE WITH ADMINISTRATIVE AUTHORITY. DISINFECTIOIN PROCESS SHALL BE PERFORMED IN COOPERATION WITH THE HEALTH DEPARTMENT HAVING JURISDICTION AND AS REQUIRED BY APPLICABLE CODE. PRESENCE OF INSPECTOR OF RECORD (IOR) DURING PROCEDURE SIGNS SHALL BE POSTED AT EACH WATER OUTLET STATING, "CHLORINATION - DO NOT DRINK". CONTRACTOR SHALL NOTIFY THE IOR 48 HOURS PRIOR TO THE NEED FOR TESTING SO THE IOR CAN MAKE ARRANGEMENTS FOR THE TESTING LABORATORY TO COLLECT SAMPLES AND TEST THE WATER. SAMPLES SHALL BE TAKEN AT THE FURTHEST POINT OF EACH BUILDING. CONTRACTOR SHALL OBTAIN A COPY OF THE TEST RESULTS FROM THE TESTING LABORATORY AND SHALL PROVIDE COPIES TO THE ARCHITECT, IOR AND OWNER BEFORE PROJECT COMPLETION. IF THE WATER FAILS THE BACTERIOLOGICAL TEST, CONTRACTOR SHALL DISINFECT THE PIPING AGAIN AND PAY FOR ANY RETESTING REQUIRED. AT NO ADDITIONAL COST TO OWNER, CONTRACTOR SHALL INCLUDE COPY OF BACTERIOLOGICAL TEST RESULTS AT CLOSEOUT WITH OPERATION AND MAINTENANCE MANUALS.
- TESTS AND ADJUSTMENTS:** PERFORM ALL TESTS AS REQUIRED BY APPLICABLE CODES IN PRESENCE OF PROJECT INSPECTOR.



CITY OF CORCORAN BFP DETAIL

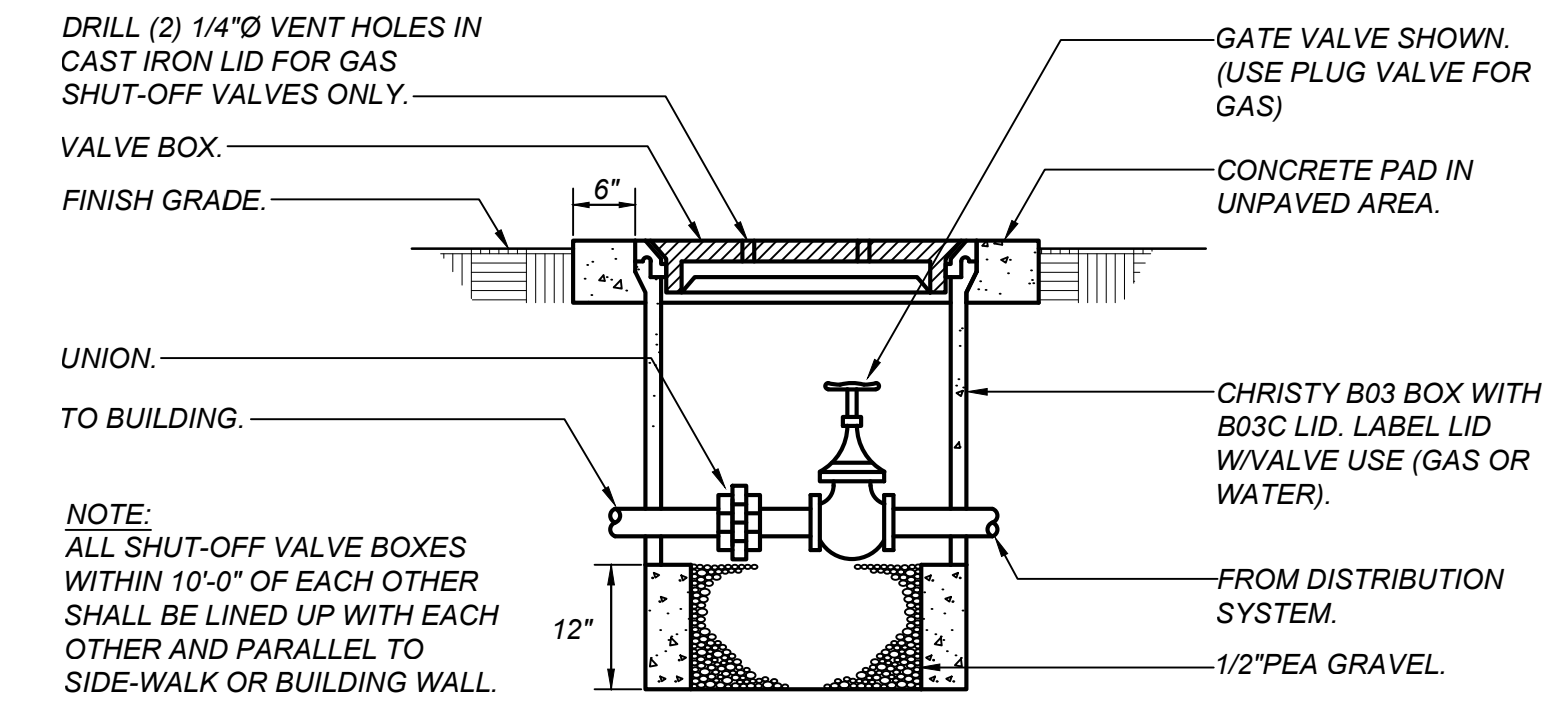
SCALE: NONE



2-WAY SURFACE CLEANOUT DETAIL

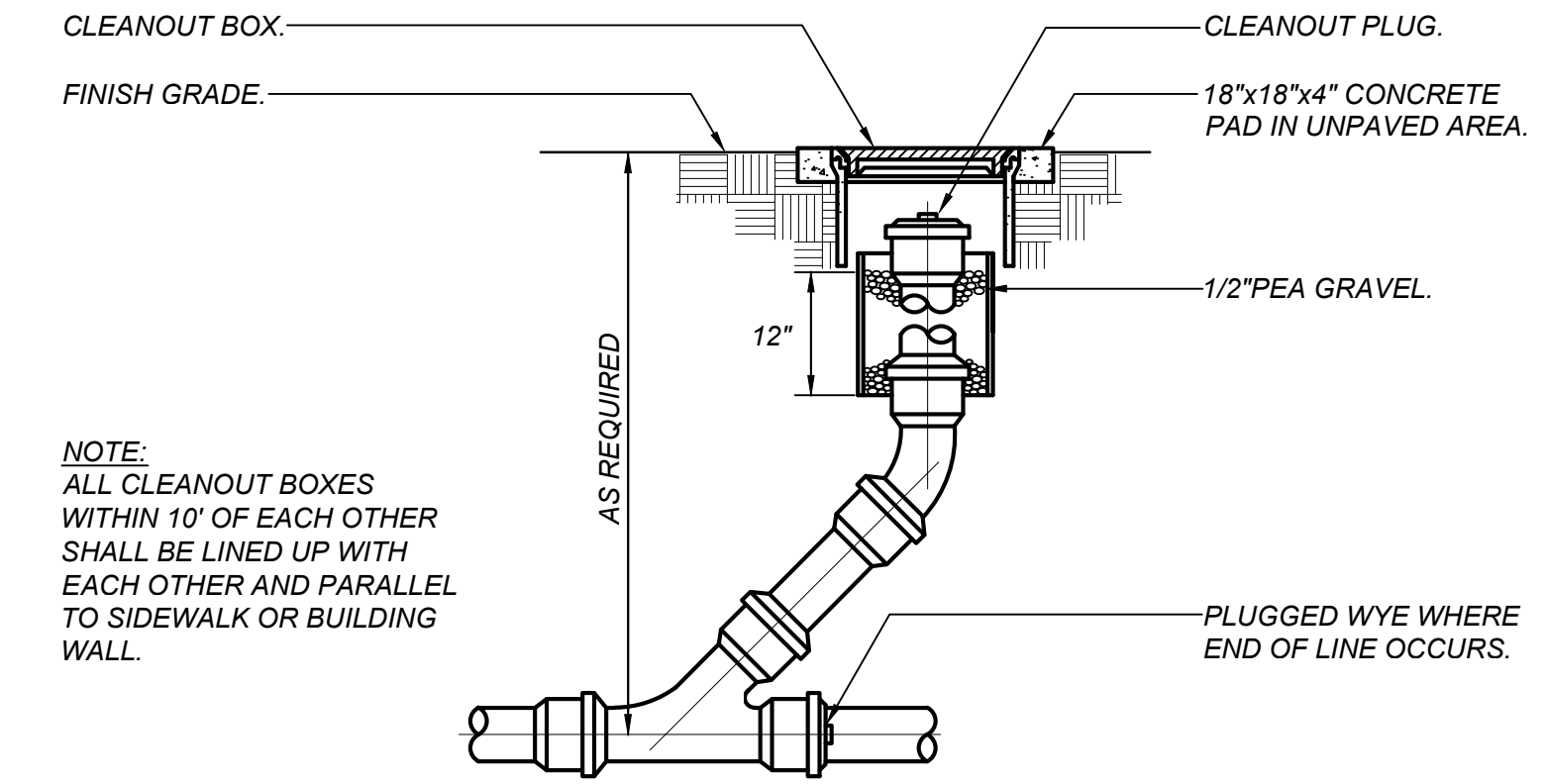
SCALE: NONE

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE						
MARK	FIXTURE	CONNECTION SIZES				DESCRIPTION
		S or W	V	CW	HW	
GT-1	GREASE TRAP	3"	2"	-	-	SCHIER "GREAT BASIN" #GB-50, INDOOR/OUTDOOR INSTALLATION, MAX FLOW RATE: 50 GPM, 65 GALLON LIQUID CAPACITY, 430 LB GREASE CAPACITY, 13 GALLON SOLIDS CAPACITY, 3" INLET AND OUTLET. INSTALL PER MANUFACTURER'S INSTRUCTIONS.



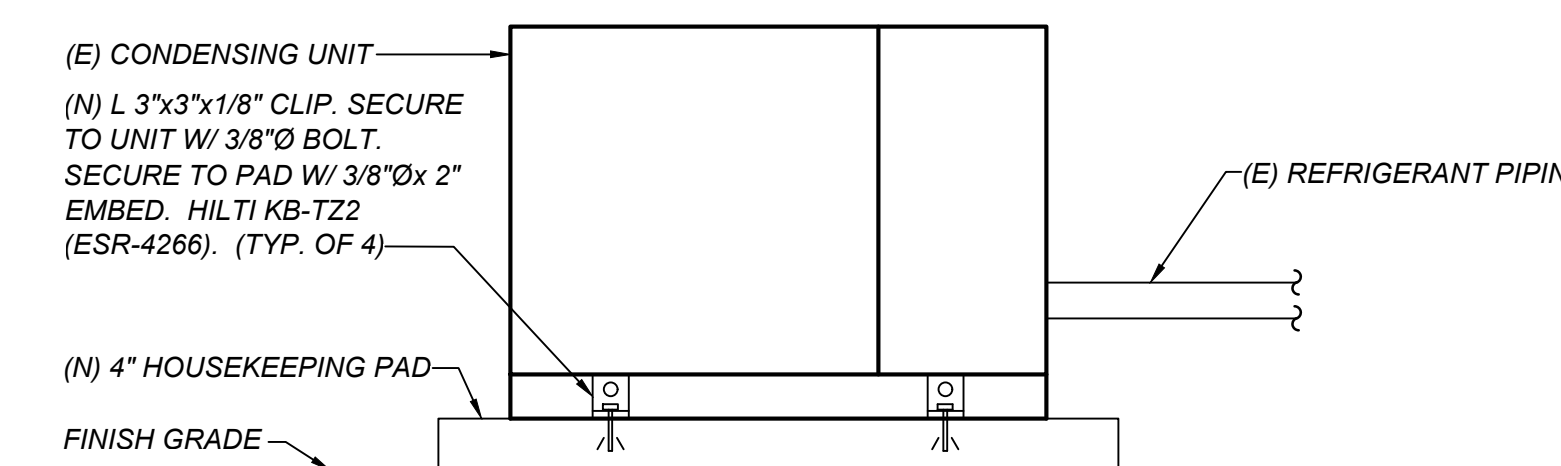
SHUT-OFF VALVE IN BOX DETAIL

SCALE: NONE



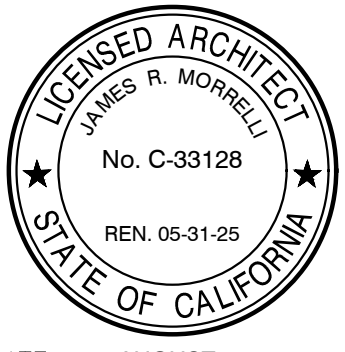
CLEANOUT TO GRADE DETAIL

SCALE: NONE



CONDENSING UNIT MOUNTING DETAIL

SCALE: NONE

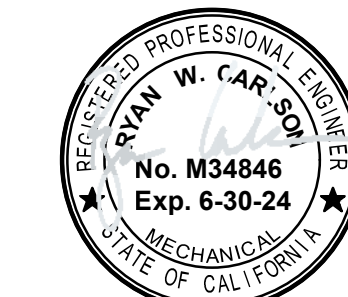


DATE: AUGUST 1, 2022

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CORCORAN JOINT UNIFIED SCHOOL DISTRICT
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REVISIONS

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www.mangini.us
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Visalia, California 93271
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(559) 627-1520 Fax



TITLE
PLUMBING DETAILS & SCHEDULES

P3.0

PROJECT 2143

LAWRENCE ENGINEERING GROUP
7084 N. Maple Ave., Suite 101 Fresno, CA 93720
(559) 431-0101 21172 FAX (559) 431-1362

ELECTRICAL SYMBOLS ALL DIMENSIONS TO CENTER OF BOX, U.O.N.	
	CONDUIT RUN IN WALL OR ATTIC (1/2" - 2 #12 AWG THWN + 1 #12 GND)
	CONDUIT RUN IN FLOOR OR UG (1/2" - 2 #12 AWG THWN + 1 #12 GND)
	ANY CONDUIT RUN - 1/2" - 3 #12 AWG THWN + 1 #12 GND
	" - 3/4" - 4 #12 AWG THWN + 1 #12 GND
	" - 3/4" - 5 #12 AWG THWN + 1 #12 GND
	" - 1" - 6 #12 AWG THWN + 1 #12 GND
	CONDUIT STUB - CAPPED AND LABELED.
	ELECTRICAL KEYNOTE #1, REFER TO NOTES ON SAME SHEET.
U.O.N.	UNLESS OTHERWISE NOTED
W.P.	WEATHERPROOF
	TERMINAL CABINET (SIZE AS SHOWN)
	ELECTRICAL PANELBOARD
	ADDRESSABLE SMOKE DETECTOR MOUNTED ON CEILING
	CONVENTIONAL CARBON MONOXIDE DETECTOR WITH ADDRESSABLE MONITOR MODULE, MOUNTED ON CEILING
	HEAT DETECTOR MOUNTED IN ATTIC
	FIRE ALARM VISUAL STROBE, 75 CANDELA, CEILING MOUNTED
	FIRE ALARM SPEAKER/15 CANDELA VISUAL STROBE (CEILING MOUNTED)
	FIRE ALARM SPEAKER/30 CANDELA VISUAL STROBE (CEILING MOUNTED)
	FIRE ALARM SPEAKER (CEILING MOUNTED)
	FIRE ALARM EXTERIOR SPEAKER IN WALL
E, (E)	SUBSCRIPT DENOTES EXISTING SHALL REMAIN
R	SUBSCRIPT DENOTES EXISTING SHALL BE REMOVED
- ER -	DENOTES EXISTING BRANCH CIRCUITING/HOMERUN TO BE REMOVED

ELECTRICAL SYMBOLS NOTES:

(A) REFER TO FIRE ALARM DEVICES ELEVATION, DETAIL #1/E2.3 FOR RESPECTIVE MOUNTING HEIGHTS.

**DIVISION OF THE STATE ARCHITECT
APPLICABLE CODES AND STANDARDS**

CODES:

- 2019 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2019 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE, VOLUMES 1 AND 2 WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2019 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA REFERENCED STANDARDS CODE (C.R.S.C.), PART 12, TITLE 24 C.C.R.

TITLE 19, C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

STANDARDS AND GUIDES:

- NFPA 72 - NATIONAL FIRE ALARM CODE, 2016 EDITION (CALIFORNIA AMENDED)
- NFPA 720 - STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE (CO) DETECTION WARNING EQUIPMENT, 2015 EDITION
- ADAAG - AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES
- UL 38 - MANUAL ACTUATED SIGNALING BOXES, 2005 EDITION
- UL 268 - SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2009 EDITION
- UL 268A - SMOKE DETECTORS FOR DUCT APPLICATIONS, 2009 EDITION
- UL 464 - AUDIBLE SIGNAL APPLIANCES, 2003 EDITION
- UL 521 - HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION (WITH REVISIONS THROUGH JULY 2009)
- UL 864 - CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2014 EDITION

SEISMIC ANCHORAGE REQUIREMENTS

MECHANICAL, ELECTRICAL AND PLUMBING ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. 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 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 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 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 2019 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.

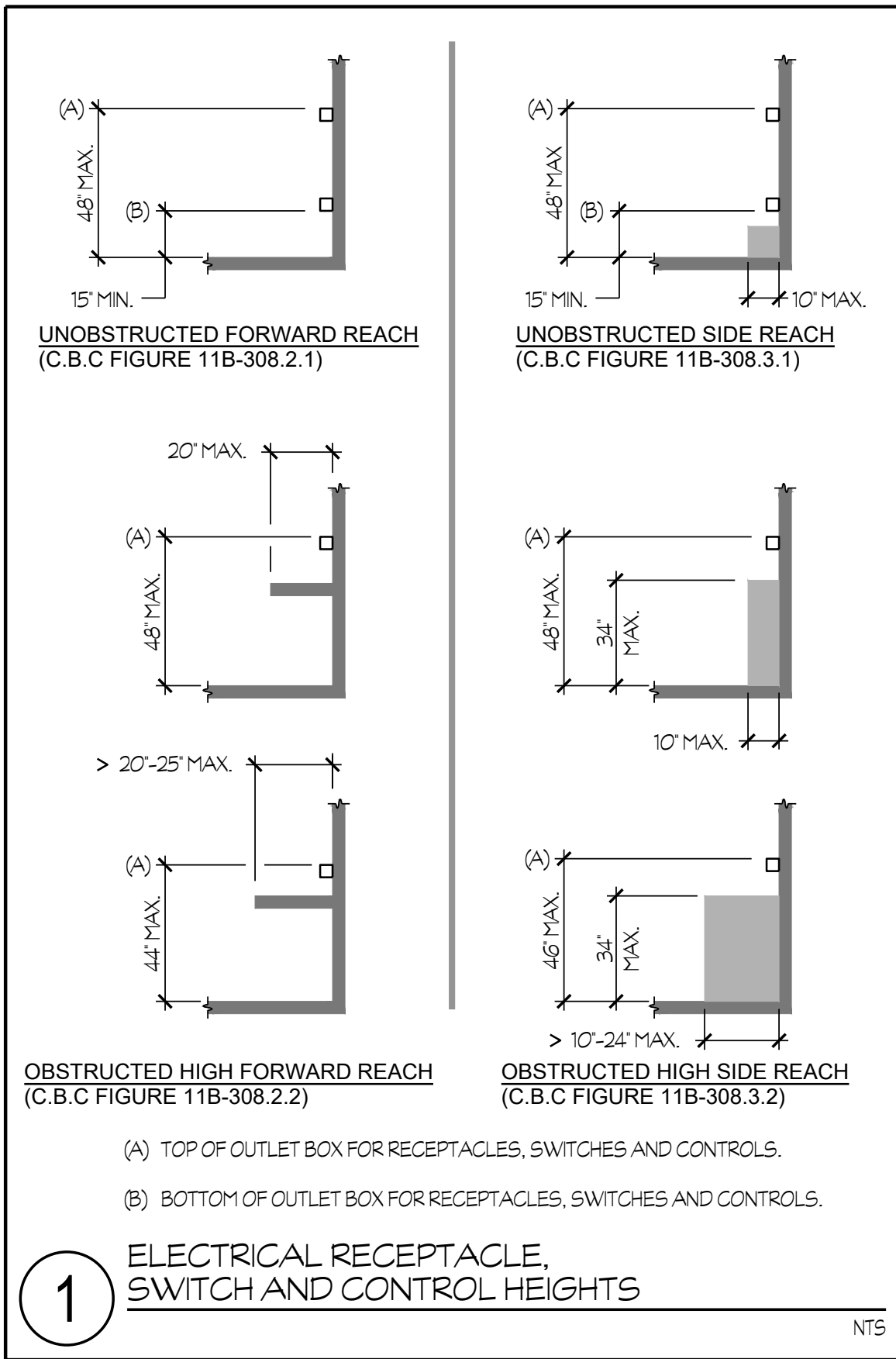
MP □ MD □ PP □ E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM) #0052-13.

TITLE 24, PART 6

THE CALIFORNIA ENERGY EFFICIENCY STANDARDS FOR NONRESIDENTIAL BUILDINGS HAS BEEN REVIEWED AND THE BUILDING DESIGN DESCRIBED ON THESE PAGES IS IN SUBSTANTIAL CONFORMANCE.

CODE, RULES AND REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.



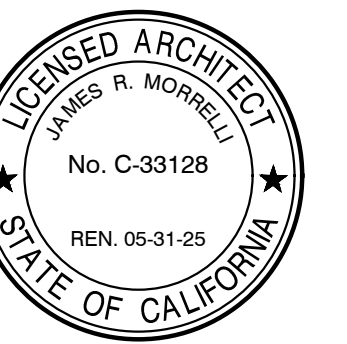
**COMPLETE AUTOMATIC FIRE ALARM SYSTEM
PLAN SUBMITTAL**

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).



Rose Sing Eastham and Associates
Electrical Consultants
131 S. Dunworth - (559)733-2671
Visalia, California 93292-6705



DATE: AUGUST 1, 2022

**NEW MODULAR FOOD SERVICE
BUILDING AT
KINGS LAKE EDUCATION CENTER**
CORCORAN JOINT UNIFIED SCHOOL DISTRICT
1128 S. DAIRY AVENUE, CORCORAN, CA 93212

REVISIONS

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(559) 627-1526 Fax

TITLE
**ELECTRICAL
SYMBOLS, CODES
AND NOTES**

EG1.1

PROJECT **2143**

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E

CERTIFICATE OF COMPLIANCE
NRCC-ELC-E

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 §130.5(a) or §130.5(b) for alterations.

Project Name: NEW MODULAR FOOD SERVICE AND SHADE STRUCTURE AT KINGS LAKE Report Page: Page 1 of 5
 Project Address: 1328 SOUTH DAIRY AVENUE Date Prepared: 8-1-22

Office Retail Warehouse Hotel/Motel School Support Areas
 Parking Garage High-Rise Residential Relocatable Healthcare Facilities Other (Write In):

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

01	02	03	04	05	
Electrical Service Designation/Description	Scope of Work*	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)(2)(b)	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standard based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.2 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LYS will indicate when demand response controls are required.
120/208V, 3ph, 4W, 800A			<input type="checkbox"/>	<input type="checkbox"/>	

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

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

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

CERTIFICATE OF COMPLIANCE
NRCC-ELC-E

Project Name: NEW MODULAR FOOD SERVICE AND SHADE STRUCTURE AT KINGS LAKE Report Page: Page 2 of 5
 Project Address: 1328 SOUTH DAIRY AVENUE Date Prepared: 8-1-22

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

Table B indicates the project is exempt from §130.5(a) Service Electrical Metering requirements because the utility company has provided the project a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

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

This Section Does Not Apply

Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §120.5(b). Using the dropdown choices in column 01, indicate the load types included for each service. Any load types that are not included in the service do not need to be shown.

01	02	03	04	05	06	07	08	09	10
Industry/Commercial load centers ≤ 25kVA	All loads in aggregate	Method 1	Method 2	Method 3	Method 4	Method 5	Method 6	Method 7	Method 8

* FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
 * Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type
 * Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type
 * Method 3: Branch circuits serve load types individually & provisions for adding future branch current monitoring
 * Method 4: Complete metering system measures and reports loads by type
 * See Chapter 9 of the International Compendium Manual for more detail on Compliance Methods.

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

CERTIFICATE OF COMPLIANCE
NRCC-ELC-E

Project Name: NEW MODULAR FOOD SERVICE AND SHADE STRUCTURE AT KINGS LAKE Report Page: Page 4 of 5
 Project Address: 1328 SOUTH DAIRY AVENUE Date Prepared: 8-1-22

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 2. 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/

NRCC-ELC-01-4 - Must be submitted for all buildings.

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

CERTIFICATE OF COMPLIANCE
NRCC-ELC-E

Project Name: NEW MODULAR FOOD SERVICE AND SHADE STRUCTURE AT KINGS LAKE Report Page: Page 3 of 5
 Project Address: 1328 SOUTH DAIRY AVENUE Date Prepared: 8-1-22

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)(B).

01	02	03	04	05
120/208V, 3ph, 4W, 800A	Voltage drop < 5%	Permitted by CA Elec Code (Exception to §130.5(c))*	In construction documents	
	<input type="checkbox"/>	Permitted by CA Elec Code (Exception to §130.5(c))*	In construction documents	<input type="checkbox"/>

* FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "unattended" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §120.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

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

CERTIFICATE OF COMPLIANCE
NRCC-ELC-E

Project Name: NEW MODULAR FOOD SERVICE AND SHADE STRUCTURE AT KINGS LAKE Report Page: Page 5 of 5
 Project Address: 1328 SOUTH DAIRY AVENUE Date Prepared: 8-1-22

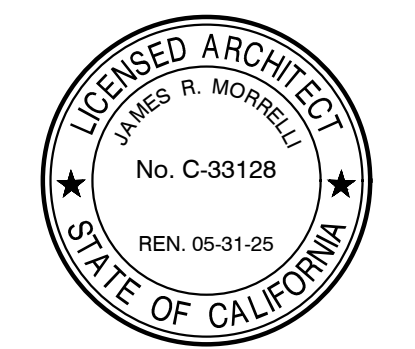
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: JEFF JACKSON Documentation Author Signature: *Jeff Jackson*
 Company: ROSE SING EASTHAM AND ASSOCIATES Signature Date: 8-1-22
 Address: 131 SOUTH DUNNORTH STREET CEJA/HERS Certification Identification (if applicable):
 City/State/Zip: VISALIA, CA 93292-6705 Phone: (559) 733-2671 EXT. 104

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 5 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 2 and Part 5 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: STEVEN EASTHAM Responsible Designer Signature: *Steven Eastham*
 Company: ROSE SING EASTHAM AND ASSOCIATES Date Signed: 8-1-22
 Address: 131 SOUTH DUNNORTH STREET License: E18786
 City/State/Zip: VISALIA, CA 93292-6705 Phone: (559) 733-2671 EXT. 101

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2020



DATE: AUGUST 1, 2022

NEW MODULAR FOOD SERVICE BUILDING AT KINGS LAKE EDUCATION CENTER
 CORCORAN JOINT UNIFIED SCHOOL DISTRICT
 1128 S. DAIRY AVENUE, CORCORAN, CA 93212

REVISIONS					

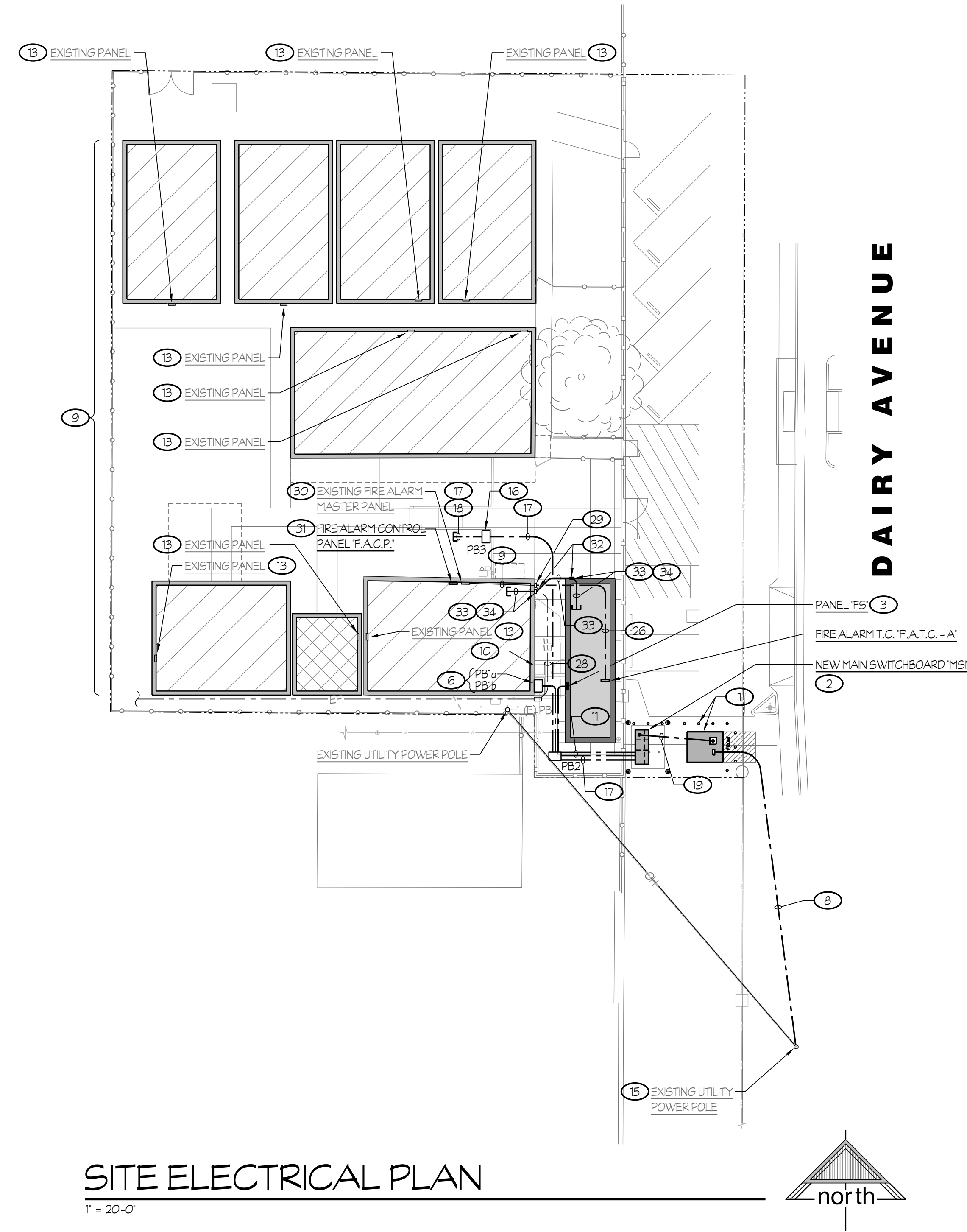
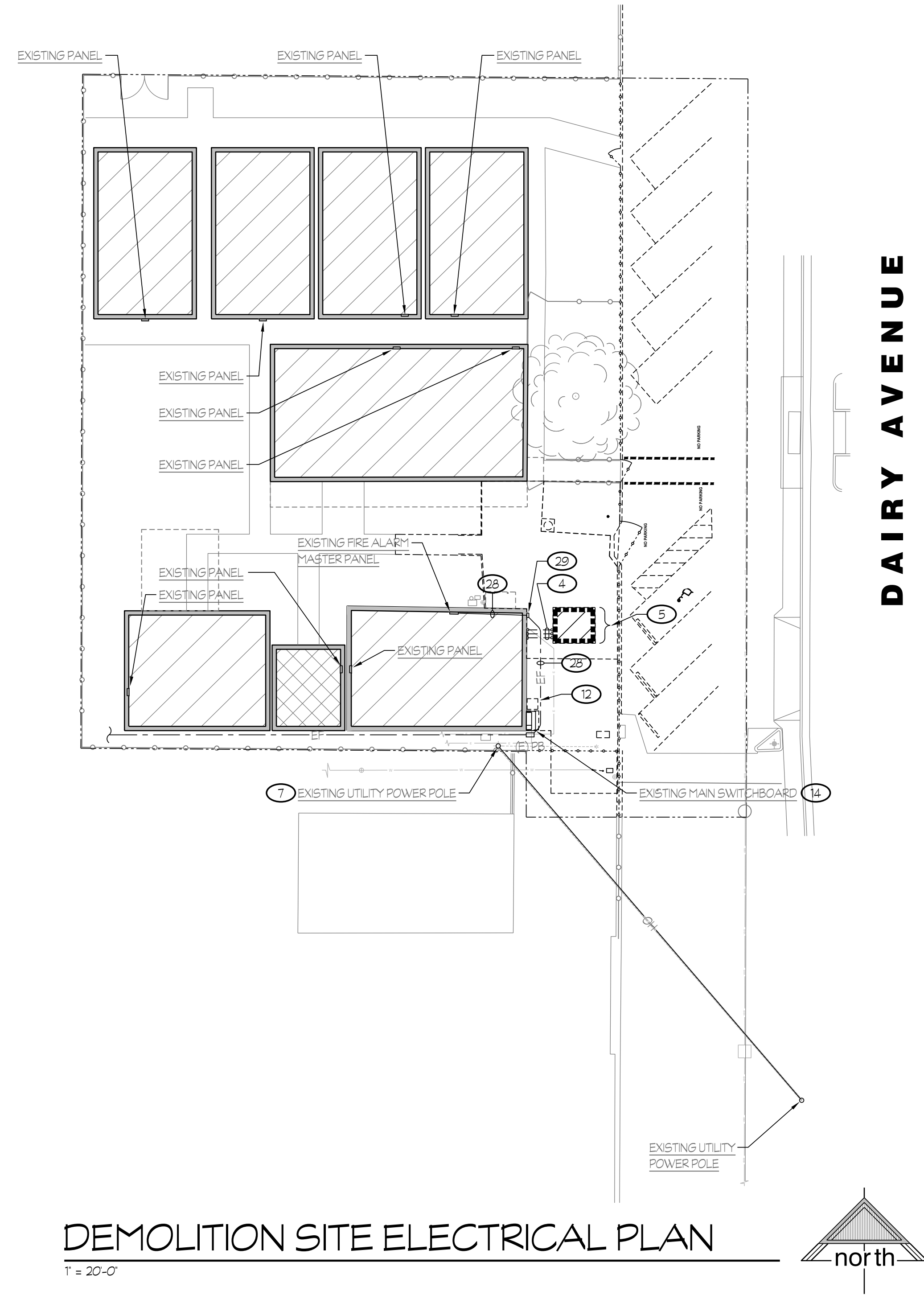
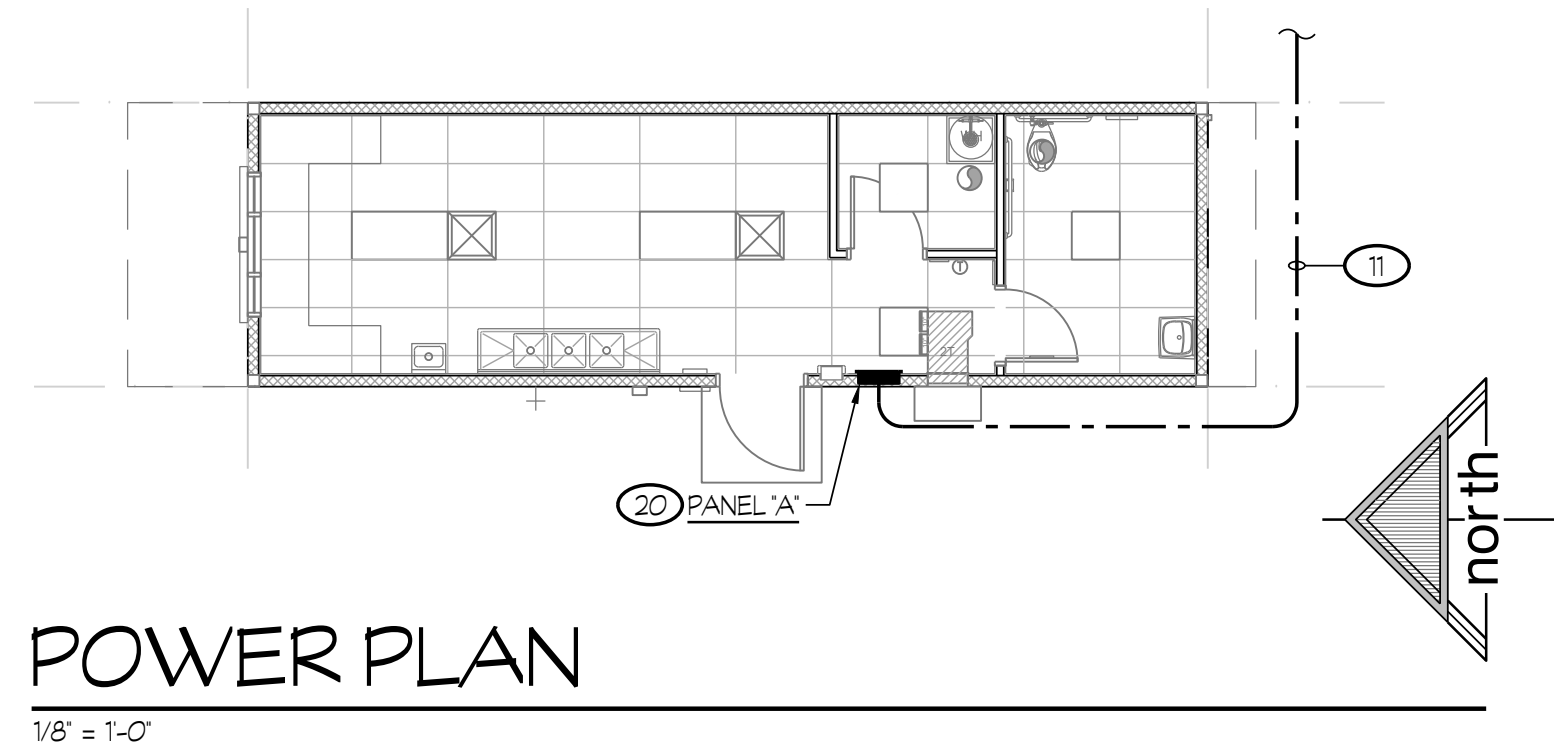
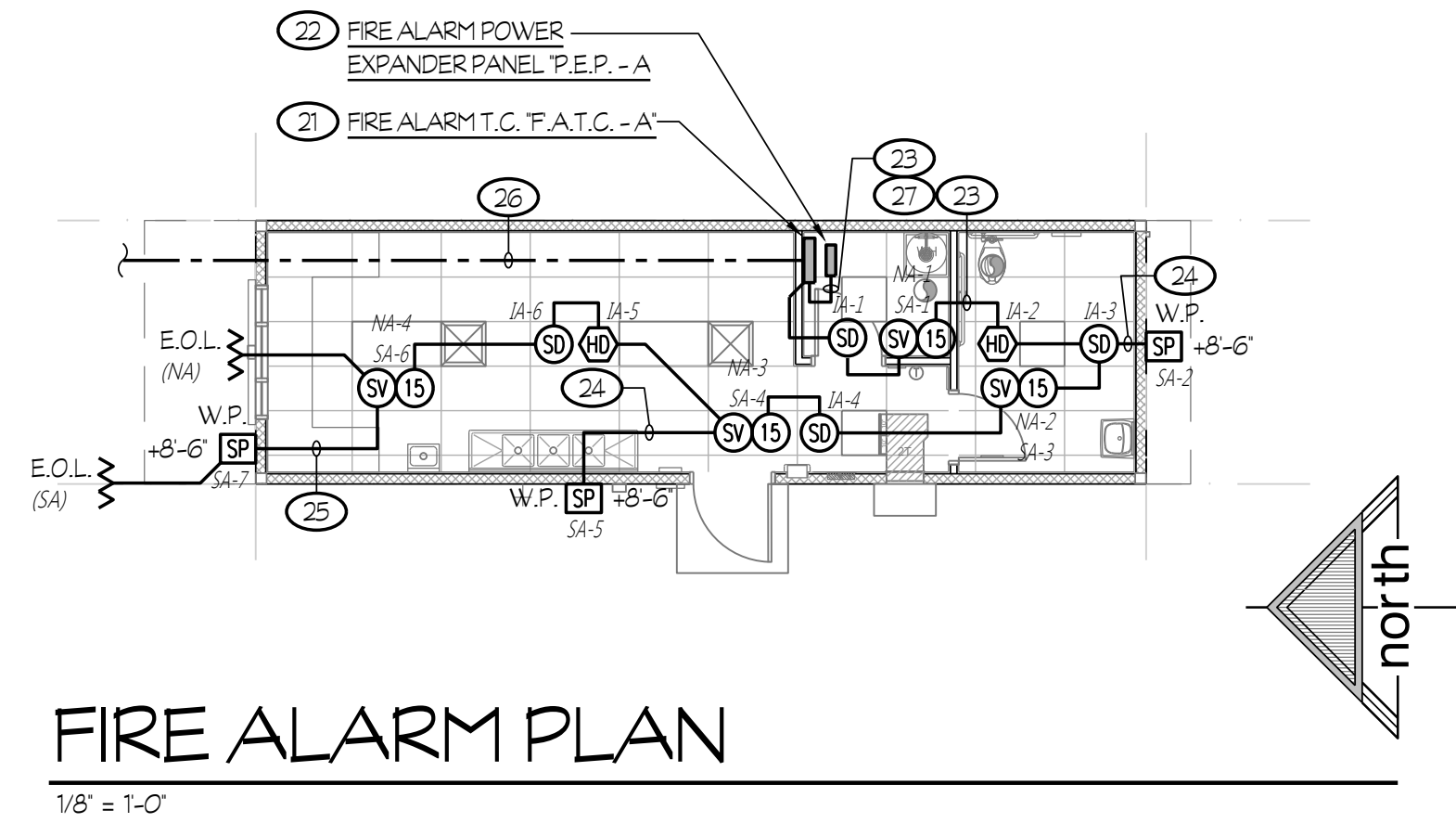
ARCHITECTURE
MANGINI INGENUITY
 MCLAIN BARENG MORRELLI SCOTT
 MANGINI ASSOCIATES INC.
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 (559) 627-1526 Fax

TITLE
 POWER COMPLIANCE
EG1.2
 PROJECT 2143



Rose Sing Eastham and Associates
 Electrical Consultants
 131 S. Dunworth - (559) 733-2671
 Visalia, California 93292-6705

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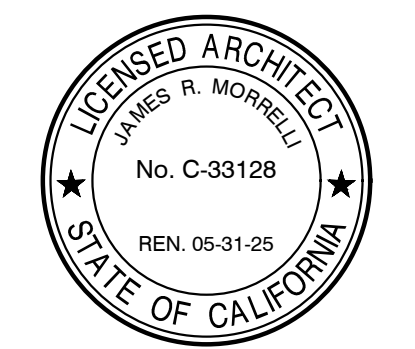
NOTES (THIS SHEET ONLY):

- 1 PROVIDE A 106" L x 90" W (STYLE II E) CONCRETE PAD, BARRIER POSTS (FIXED AND REMOVABLE) AND GROUNDING FOR P.G.#E. PAD MOUNTED TRANSFORMER PER P.G.#E. REQUIREMENTS.
- 2 NEW MAIN SWITCHBOARD 'MSN'. MOUNT PER DETAIL #1/E1.2.
- 3 CONNECT PANEL PROVIDED WITH MODULAR BUILDING.
- 4 DISCONNECT, REMOVE AND DISPOSE OF ALL EXISTING POWER AND SIGNAL CONNECTIONS TO CLEAR AREA FOR NEW BUILDING.
- 5 DISCONNECT 'CASITA' FROM ALL EXISTING ELECTRICAL CONNECTIONS FOR REMOVAL BY OTHERS.
- 6 PROVIDE NEW PULL BOXES TO CAPTURE EXISTING FEEDER CONDUITS. SEE ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 7 COORDINATE WITH P.G.#E. TO REMOVE EXISTING POLE TRANSFORMER THAT SUPPLIES THE SWITCHBOARD BEING DEMOLISHED.
- 8 P.G.#E. PRIMARY CONDUIT (ONE 5") TO P.G.#E. FACILITIES. CONTRACTOR TO COORDINATE WITH P.G.#E.
- 9 CONTRACTOR TO COORDINATE WITH MECHANICAL REGARDING EXISTING H.V.A.C. EQUIPMENT TO RECONNECT UNITS FOR 208V, 1ph OPERATION AS REQUIRED. NOTE: ALL UNITS ARE 208/230V RATED.
- 10 AFTER H.V.A.C. UNIT HAS BEEN REINSTALLED BY MECHANICAL, RECONNECT TO SAME ELECTRICAL AS BEFORE.
- 11 FEEDER(S) PER ONE LINE DIAGRAM #1/E1.1.
- 12 DISCONNECT EXISTING H.V.A.C. UNIT FOR SALVAGING BY MECHANICAL. EXISTING ELECTRICAL TO REMAIN FOR REUSE.
- 13 TO REMAIN IN USE. NO WORK REQUIRED.
- 14 DISCONNECT, REMOVE AND DISPOSE OF SWITCHBOARD AS DIRECTED BY OWNER. ALL EXISTING CONDUIT AND WIRING TO REMAIN FOR REUSE. BUST OUT EXISTING SLAB AND DISPOSE OF IT.
- 15 VERIFY EXACT LOCATION AND QUADRANT WITH P.G.#E..
- 16 NEW PULL BOX PER DETAIL #6/E1.2. TYPICAL, U.O.N..
- 17 SPARE CONDUITS PER ONE LINE DIAGRAM #1/E1.1.
- 18 STUB OUT 30" FROM EDGE OF PULL BOX AND CAP FOR FUTURE USE.
- 19 THREE 4"C (P.G.#E. SECONDARY) PER P.G.#E. REQUIREMENTS.
- 20 CONNECT PANEL PROVIDED WITH MODULAR BUILDING.
- 21 FIRE ALARM T.C. 'F.A.T.C.' - 'A'. MOUNT PER DETAIL #6/E2.3.
- 22 FIRE ALARM POWER EXPANDER PANEL 'P.E.P.' - 'A'. MOUNT PER DETAIL #7/E2.3.
- 23 1"C - ONE FSP CABLE, TWO 'FA' CABLES, 2 #12. TYPICAL, U.O.N..
- 24 3/4"C - TWO FSP CABLES.
- 25 1/2"C - ONE FSP CABLE.
- 26 NEW FIRE ALARM FEED PER FIRE ALARM RISER DIAGRAM #1/E2.2.
- 27 ONE SPARE 1 1/4"C.
- 28 EXISTING FIRE ALARM CONDUIT PER FIRE ALARM RISER DIAGRAM #1/E2.2.
- 29 EXISTING SIGNALS PULL CAN. ACCESS AS REQUIRED TO DO NEW WORK AS NOTED.
- 30 PROGRAM NEW DEVICES AS REQUIRED. COORDINATE WITH FIRE ALARM MANUFACTURER.
- 31 MOUNT ADJACENT TO EXISTING 'F.A.C.P.' PER DETAIL #1/E2.2. SEE FIRE ALARM RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- 32 18" x 6" DP, NEMA 3R, SCREW COVER ENCLOSURE. MOUNT HIGH ON WALL WITH TOP HALF ABOVE INTERIOR T-BAR CEILING PER DETAIL #3/E2.3.
- 33 TWO SPARE 1 1/2"C FOR FUTURE SIGNALS.
- 34 STUB INTO ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING. PENETRATE THROUGH WALL AND SEAL TO PREVENT LEAKS AS REQUIRED.

COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).



DATE: AUGUST 1, 2022

NEW MODULAR FOOD SERVICE BUILDING AT KINGS LAKE EDUCATION CENTER
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1128 S. DAIRY AVENUE, CORCORAN, CA 93212

NO.	REVISIONS

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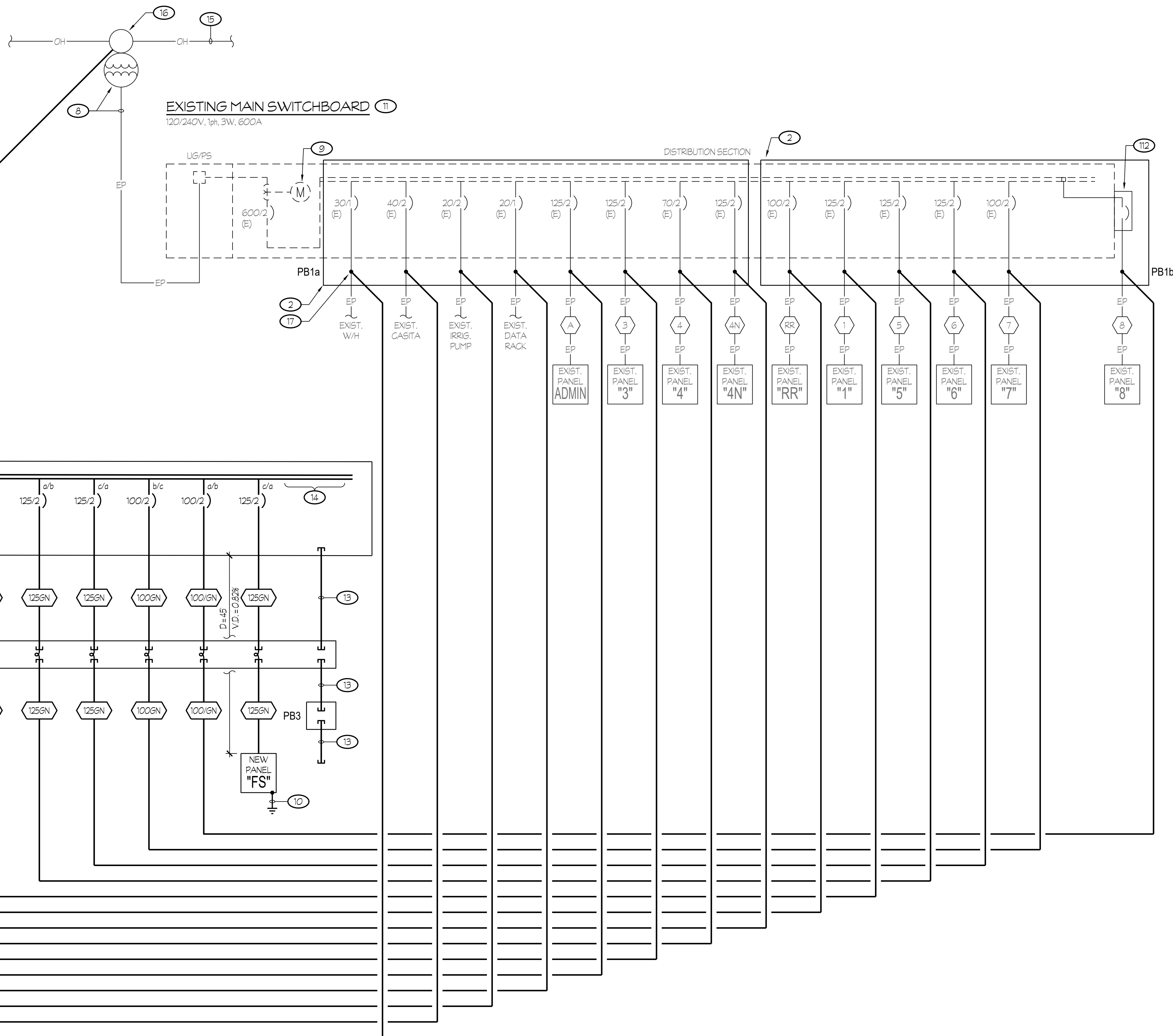
Rose Sing Eastham and Associates
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Visalia, California 93292-6705

TITLE SITE ELECTRICAL PLANS
ES1.1
PROJECT 2143

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NOTES (THIS SHEET ONLY):

- 1 ONE 5'C TO P.G.&E. FACILITIES. COORDINATE WITH P.G.&E.
- 2 PROVIDE PULL BOX TO INTERCEPT EXISTING FEEDERS WHERE ORIGINAL MAIN SWITCHBOARD HAS BEEN REMOVED. SET FLUSH TO NEW GRADE LEVEL.
- 3 LANDING LUGS PER P.G.&E. REQUIREMENTS.
- 4 PROVIDE A 106" L x 90" W (STYLE 11 E) CONCRETE PAD, BARRIER POSTS (FIXED AND REMOVABLE) AND GROUNDING FOR P.G.&E. PAD MOUNTED TRANSFORMER PER P.G.&E. REQUIREMENTS.
- 5 THREE 4'C (SECONDARY).
- 6 1 1/2" CU TO GROUND PER DETAIL #4/E1.2.
- 7 PER DETAIL #1/E1.2.
- 8 COORDINATE WITH P.G.&E. TO REMOVE POLE TRANSFORMER AND REMOVE SECONDARY CONDUCTORS.
- 9 COORDINATE WITH P.G.&E. TO DISCONNECT AND REMOVE EXISTING METER.
- 10 BOND AND GROUND PER DETAIL #7/E1.2.
- 11 DISCONNECT AND RETURN TO THE OWNER. LEAVE ALL EXISTING FEEDER CONDUITS IN PLACE.
- 12 DISCONNECT, REMOVE AND DISPOSE OF EXISTING 100A, 2-POLE ENCLOSED CIRCUIT BREAKER ON SIDE OF MAIN SWITCHBOARD.
- 13 PROVIDE TWO SPARE 1 1/2"C AND TWO SPARE 2 1/2"C FOR FUTURE USE.
- 14 PROVIDE SPACE AND MOUNTING HARDWARE FOR TWO 150 AMP, 3-POLE AND ONE 400 AMP, 3-POLE CIRCUIT BREAKER.
- 15 EXISTING OVER-HEAD POWER LINES TO REMAIN.
- 16 EXISTING P.G.&E. POWER POLE TO REMAIN.
- 17 PICK-UP AND EXTEND EXISTING FEEDER CONDUCTORS TO NEW CIRCUIT BREAKER. ELECTRICAL CONTRACTOR SHALL PROVIDE COMPRESSION CONNECTORS WITH HEAVY-WALL HEAT SHRINK TUBING EQUIPPED WITH FACTORY APPLIED ADHESIVE/SEALANT AS REQUIRED. ELECTRICAL CONTRACTOR SHALL ALSO FIELD VERIFY SIZE OF EXISTING FEEDER CONDUCTORS AND MATCH ACCORDINGLY.



EXISTING FEEDER SCHEDULE:

- 1 EXISTING 11/4"C - 3 #12.
- 3 EXISTING 2"C - 3 #10 AL.
- 4 EXISTING 11/4"C - 3 #12 + 1 #8 GND.
- 4N EXISTING 11/4"C - 3 #12.
- 5 EXISTING 11/2"C - 3 #12 + 4 #8 GND.
- 6 EXISTING 11/2"C - 3 #12 + 4 #8 GND.
- 7 EXISTING 11/2"C - 3 #12 + 1 #8 GND.
- 8 EXISTING 11/2"C - 3 #12 + 1 #8 GND.
- A EXISTING 2"C - 3 #10 AL.
- RR EXISTING 1"C - 3 #10 + 1 #12 GND.

NEW FEEDER SCHEDULE:

- (ALL UNDERGROUND CONDUCTORS, OF A 480/277V POWER SYSTEM, SHALL BE TYPE CU-XHHW-2. ALL OTHER CONDUCTORS, INCLUDING THE EQUIPMENT GROUNDING CONDUCTOR, SHALL BE CU-THWN-2 FOR #8 AWG OR LARGER AND CU-THWN FOR #10 AWG OR SMALLER).
- 20G 3/4"C - 2 #12 + 1 #2 GND.
 - 30G 3/4"C - 2 #10 + 1 #10 GND.
 - 40G 3/4"C - 2 #8 + 1 #10 GND.
 - 125GN 1 1/2"C - 3 #1 + 1 #6 GND.
 - 70GN 1"C - 3 #4 + 1 #8 GND.
 - 100GN 1 1/4"C - 3 #2 + 1 #8 GND.
 - 125GN 1 1/2"C - 4 #2 + 1 #6 GND.

LOAD CALCULATION (NEW MAIN SWBD 'MS'):

EXISTING LOAD:

ØA: 400 A	ØB: 380 A	ØC: 320 A
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NEW LOAD (RELOCATABLE FOOD SERVICE BUILDING):

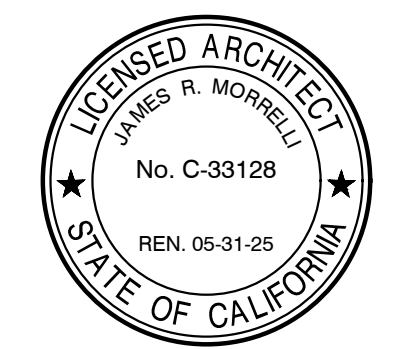
ØA: 0 A	ØB: 63 A	ØC: 53 A
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TOTAL LOAD:

ØA: 400 A	ØB: 443 A	ØC: 373 A
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THEREFORE A 120/208V, 3Ø, 4W, 800 AMP SERVICE IS ADEQUATE.

1 ONE LINE DIAGRAM



DATE: AUGUST 1, 2022

NEW MODULAR FOOD SERVICE BUILDING AT KINGS LAKE EDUCATION CENTER
CORCORAN JOINT UNIFIED SCHOOL DISTRICT
1128 S. DAIRY AVENUE, CORCORAN, CA 93212

REVISIONS

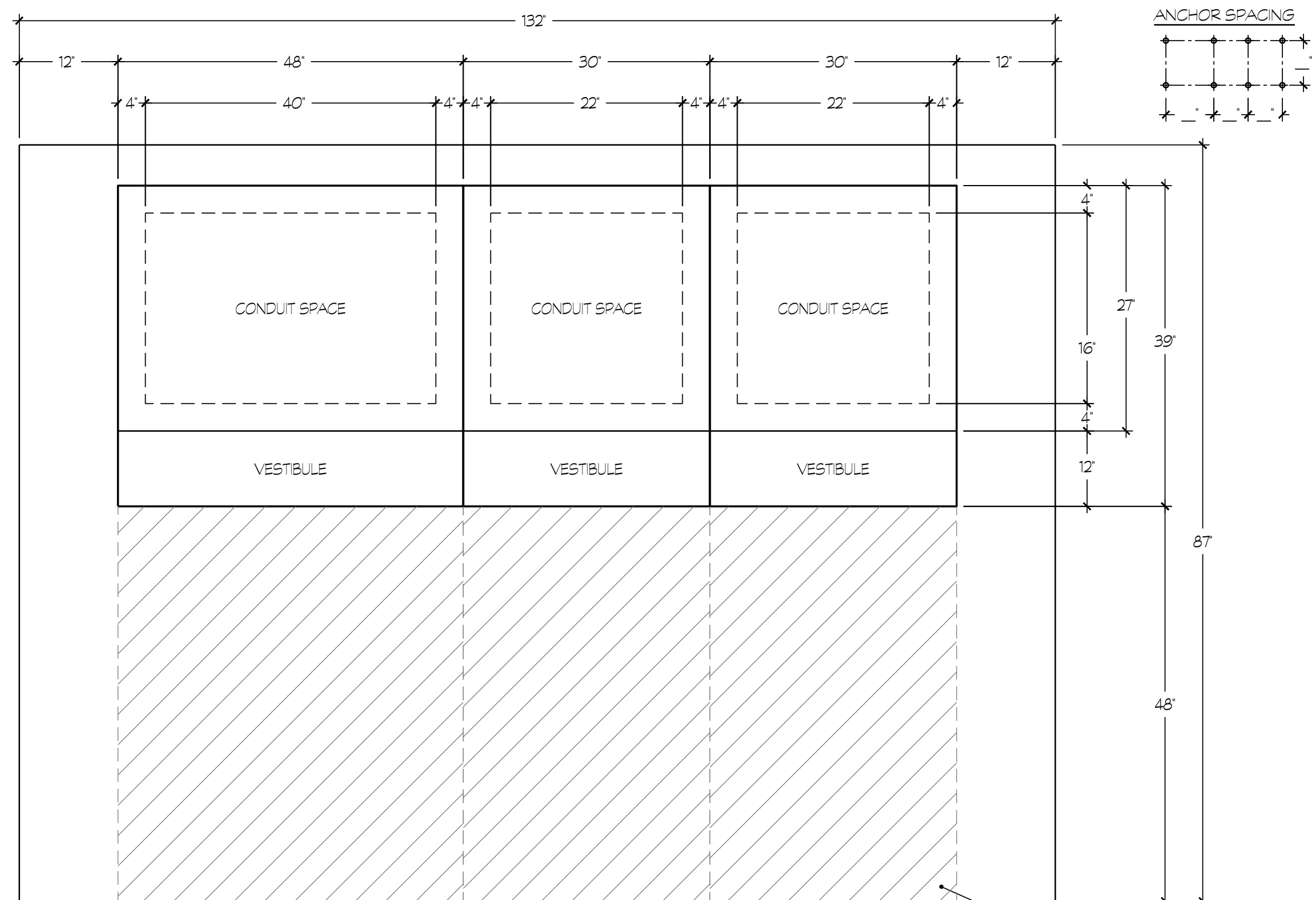
MANGINI ARCHITECTURE
INGENUITY
McLAIN BARENG MORRELLI SCOTT
MANGINI ASSOCIATES INC.
4320 West Mineral King Avenue
Visalia, California 93291
www.mangini.us
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(559) 627-1526 Fax



Rose Sing Eastham and Associates
Electrical Consultants
131 S. Dunworth - (559) 733-2671
Visalia, California 93292-6705

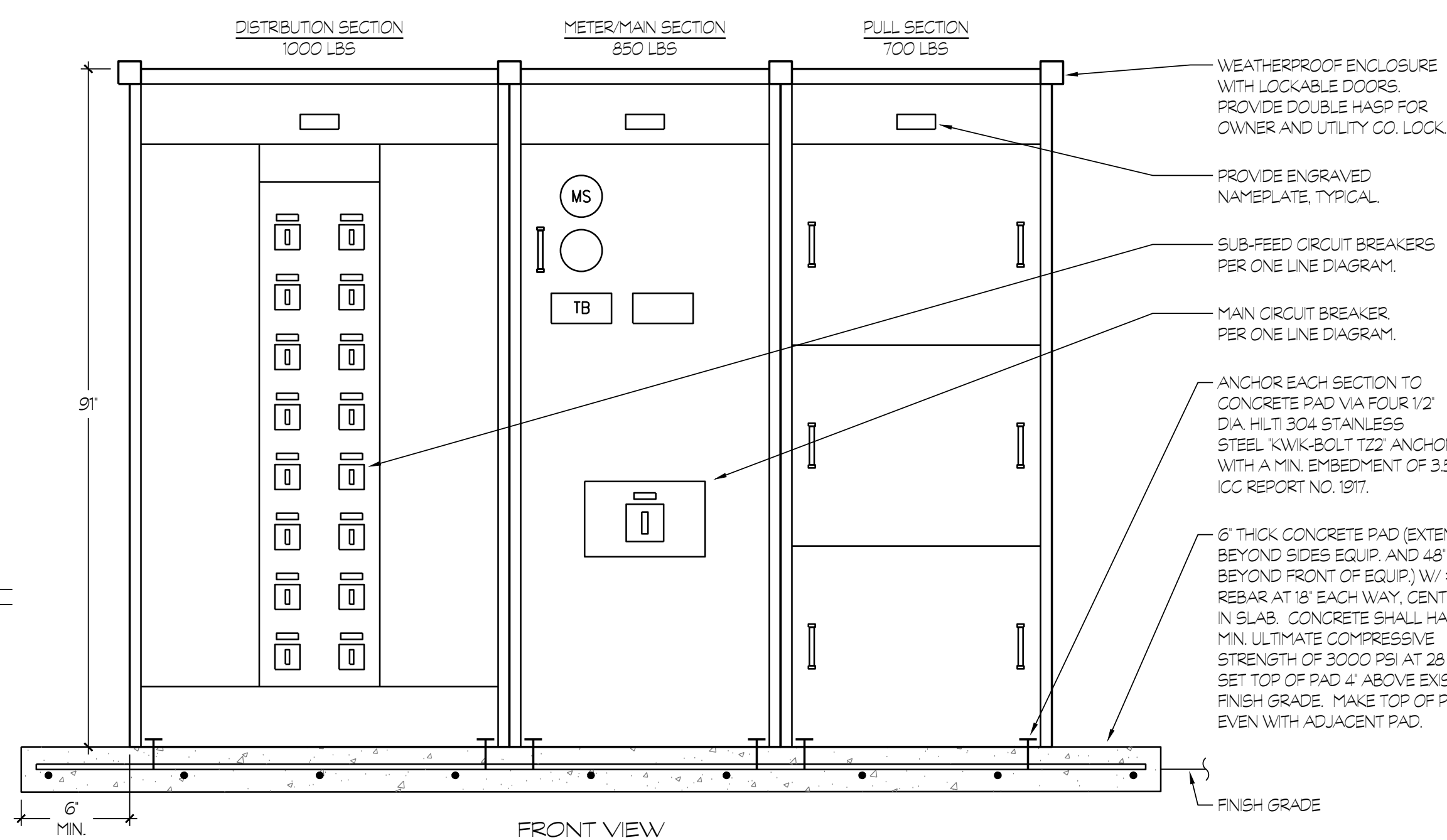
TITLE
ONE LINE DIAGRAM
E1.1
PROJECT 2143

Z:\Drawing\Jobs\155\1550005\Corcoran\Kings Lake Edu. Ctr - New Mod. Food Service Bldg\11.dwg DATE: 08/01/22 BY: Casey DATE PLOTTED: 08/05/22 JOB #: 21-185-05



PLAN VIEW

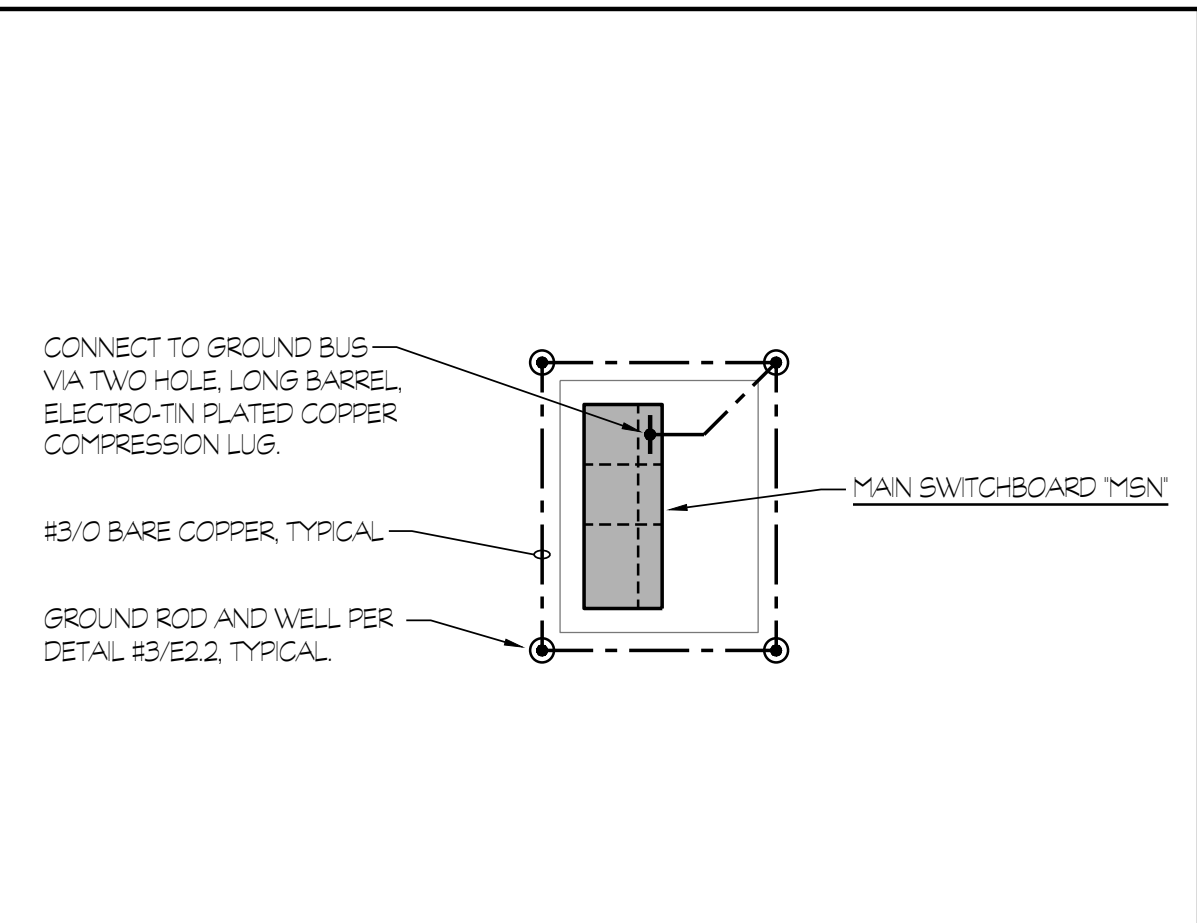
HATCHED AREA DENOTES REQUIRED WORKING CLEARANCE.



FRONT VIEW

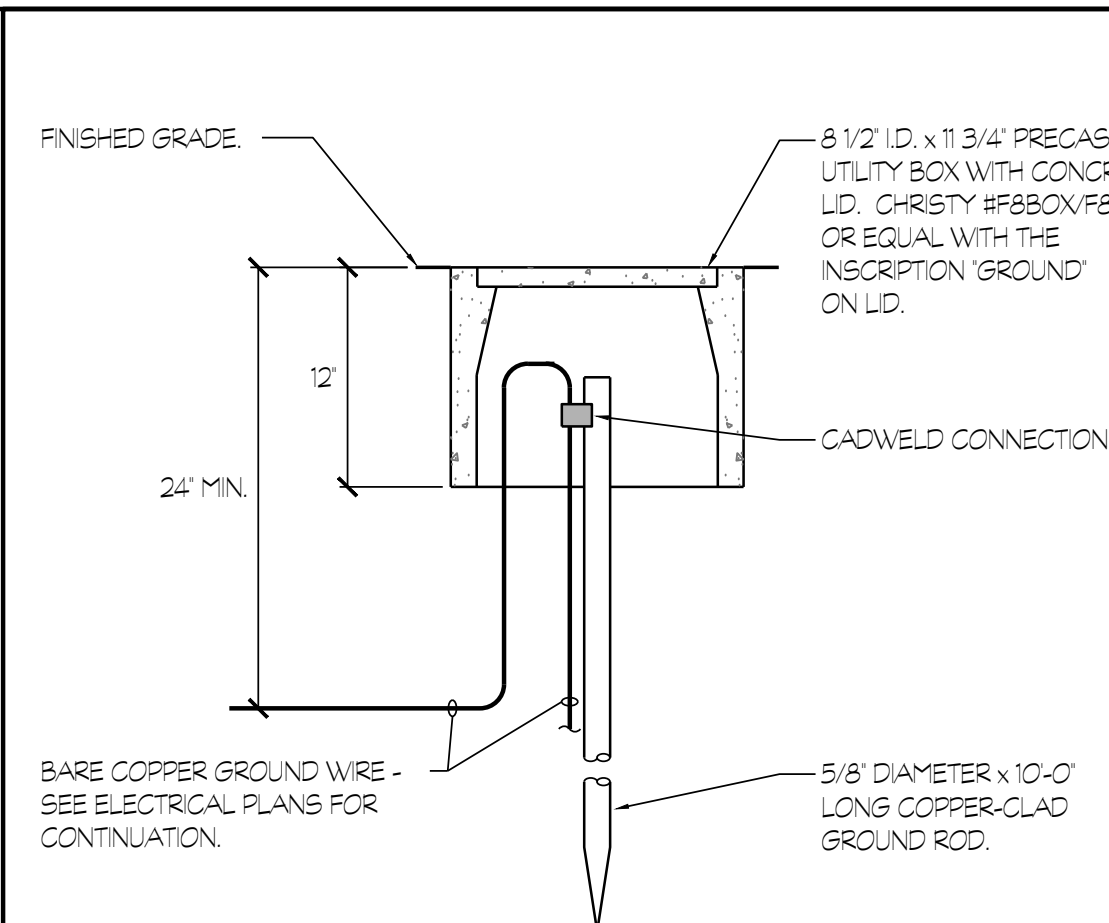
1 MAIN SWITCHBOARD "MSN" MOUNTING

NTS



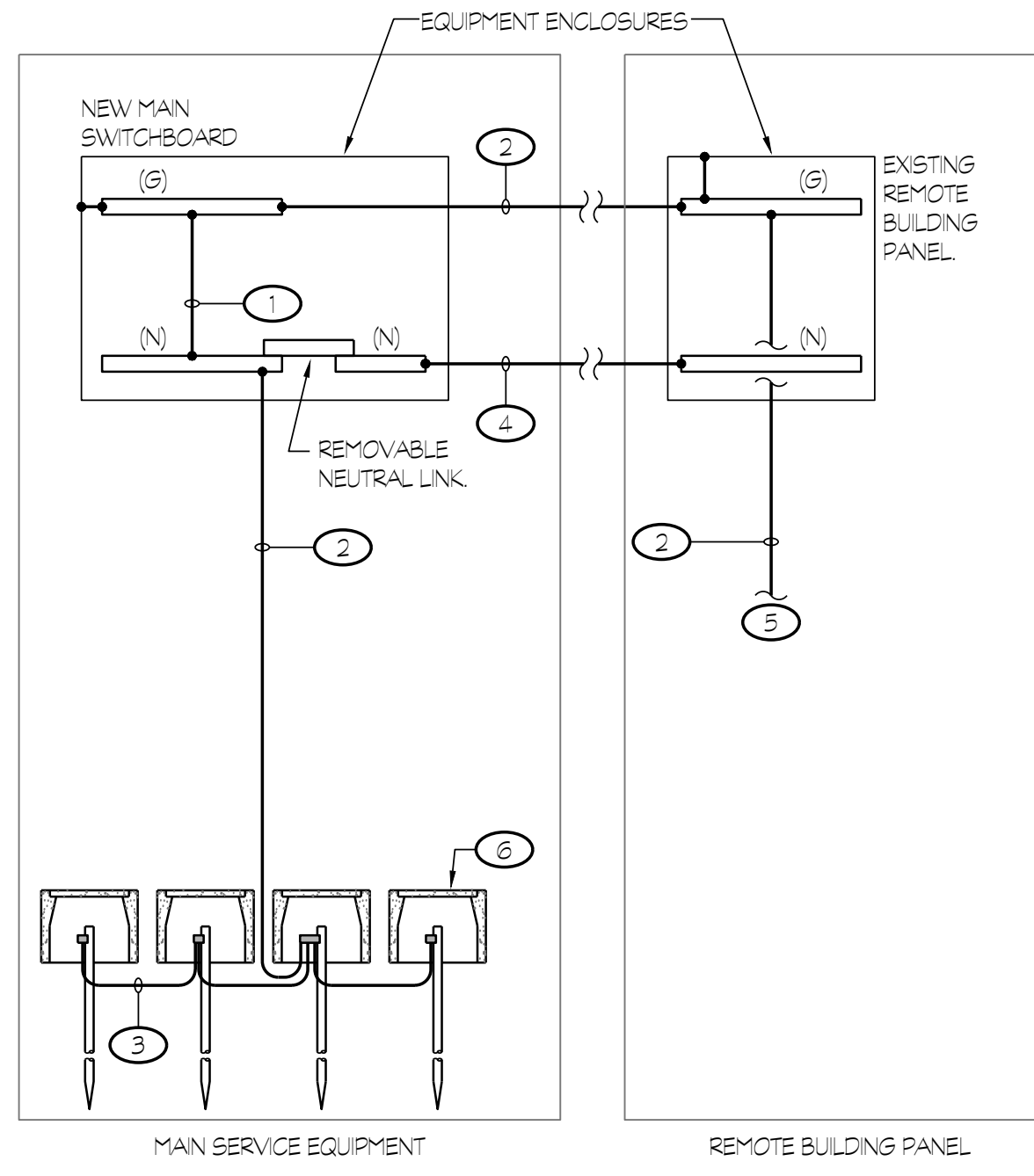
2 MAIN SWITCHBOARD "MSN" GROUNDING AND BONDING

NTS



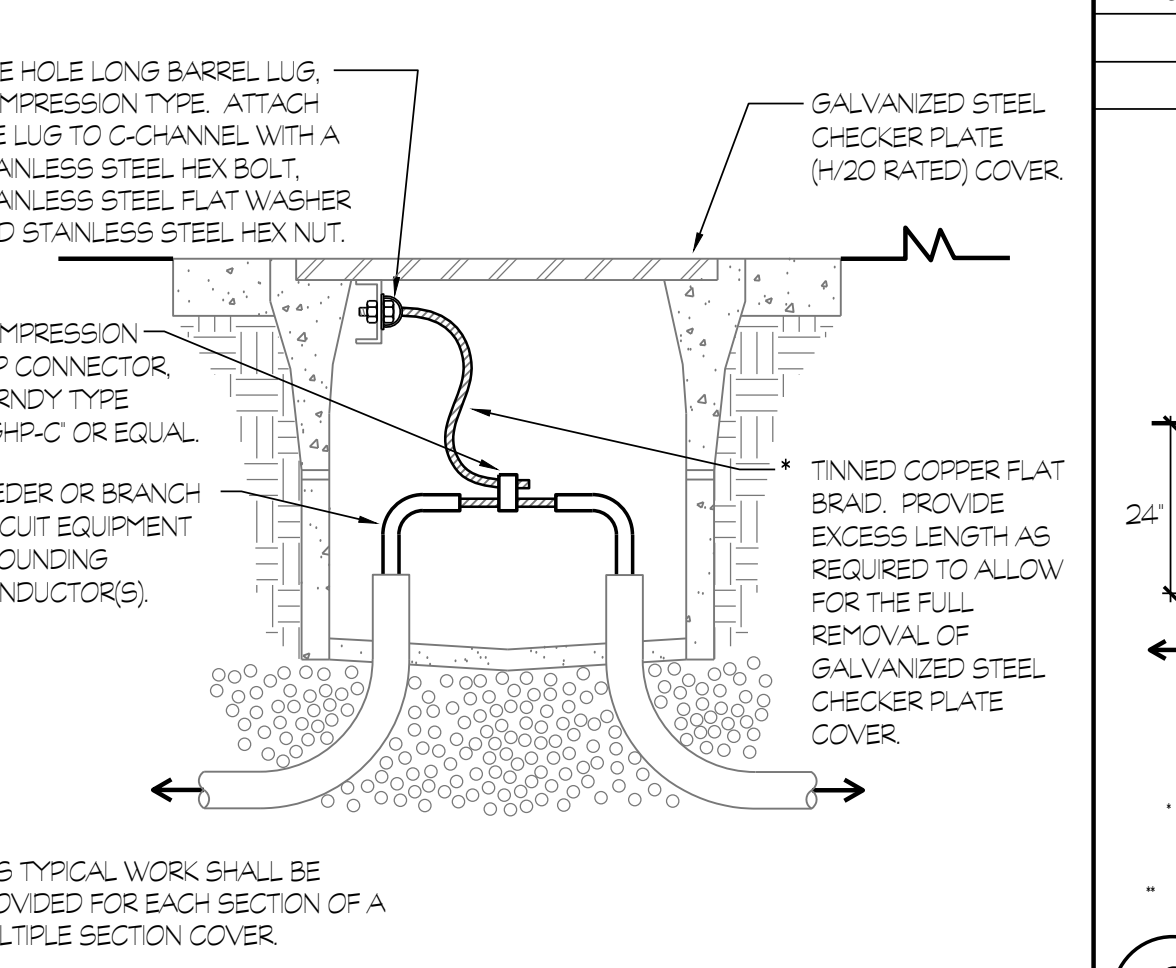
3 GROUND ROD DETAIL

NTS



4 MAIN SERVICE EQUIPMENT AND SECONDARY PANEL - GROUNDING AND BONDING

NTS



THIS TYPICAL WORK SHALL BE PROVIDED FOR EACH SECTION OF A MULTIPLE SECTION COVER.

THIS TYPICAL WORK SHALL BE DONE FOR EACH OF THE LARGEST FEEDER (OR BRANCH CIRCUIT) EQUIPMENT GROUNDING CONDUCTOR, PASSING THRU THE RESPECTIVE PULL BOX WHICH ORIGINATE FROM SEPARATE SOURCES/VOLTAGES.

MATRIX FOR TINNED COPPER FLAT BRAID		
SIZE OF EQUIPMENT GROUNDING CONDUCTOR (G)	ALPHA WIRE PART #	OLYMPIC WIRE AND CABLE PART #
#8	1233	708
#6	1235	710
#4	1239	710
#2 THRU #1/0	1240	713
#2/0 THRU #4/0	1241	714

(G) CONTAINED IN THE LARGEST FEEDER (OR BRANCH CIRCUIT) PASSING THRU THE RESPECTIVE PULL BOX.

5 GROUNDING AND BONDING OF STEEL CHECKER PLATE COVERS

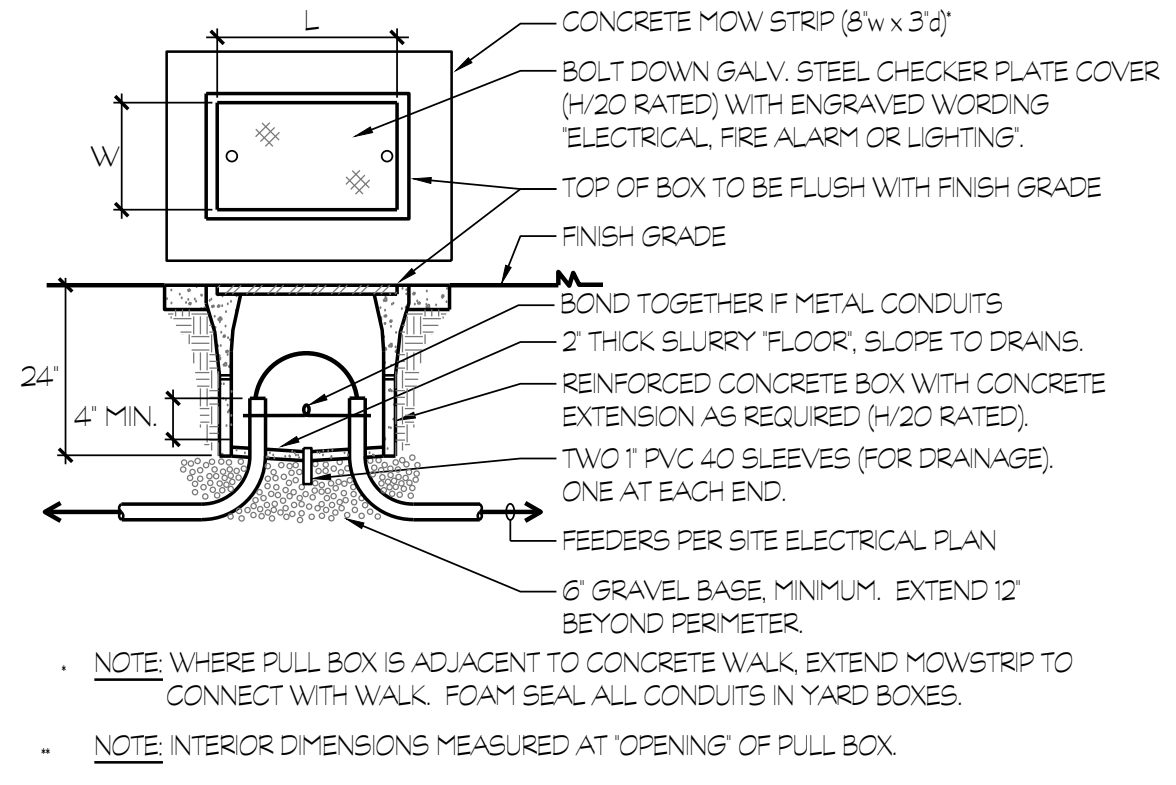
NTS

- NOTES (THIS DETAIL ONLY):
- MAN BONDING JUMPER PER C.E.C. 250.26.
 - FULL SIZE GROUNDING ELECTRODE CONDUCTOR PER C.E.C. TABLE 250.66.
 - #3/0 CU BARE COPPER BETWEEN GROUND RODS, TYPICAL.
 - NEUTRAL CONDUCTOR PER FEEDER SCHEDULE.
 - EXISTING FULL SIZED GROUNDING ELECTRODE CONDUCTOR TO REMAIN.
 - 5/8" DIA. ROD ELECTRODE PER C.E.C. 250.52 (A), (5) AND DETAIL #3/E1.2.

LEGEND:
 (G) DENOTES THE GROUND BUS OR BAR.
 (N) DENOTES THE NEUTRAL BUS OR BAR.

GENERAL NOTE:
 ALL MATERIALS AND METHODS USED IN GROUNDING AND BONDING SHALL COMPLY WITH C.E.C. ARTICLE 250.

	PB1	PB1	PB2	PB3
W	24"	24"	24"	24"
L	36"	36"	36"	36"

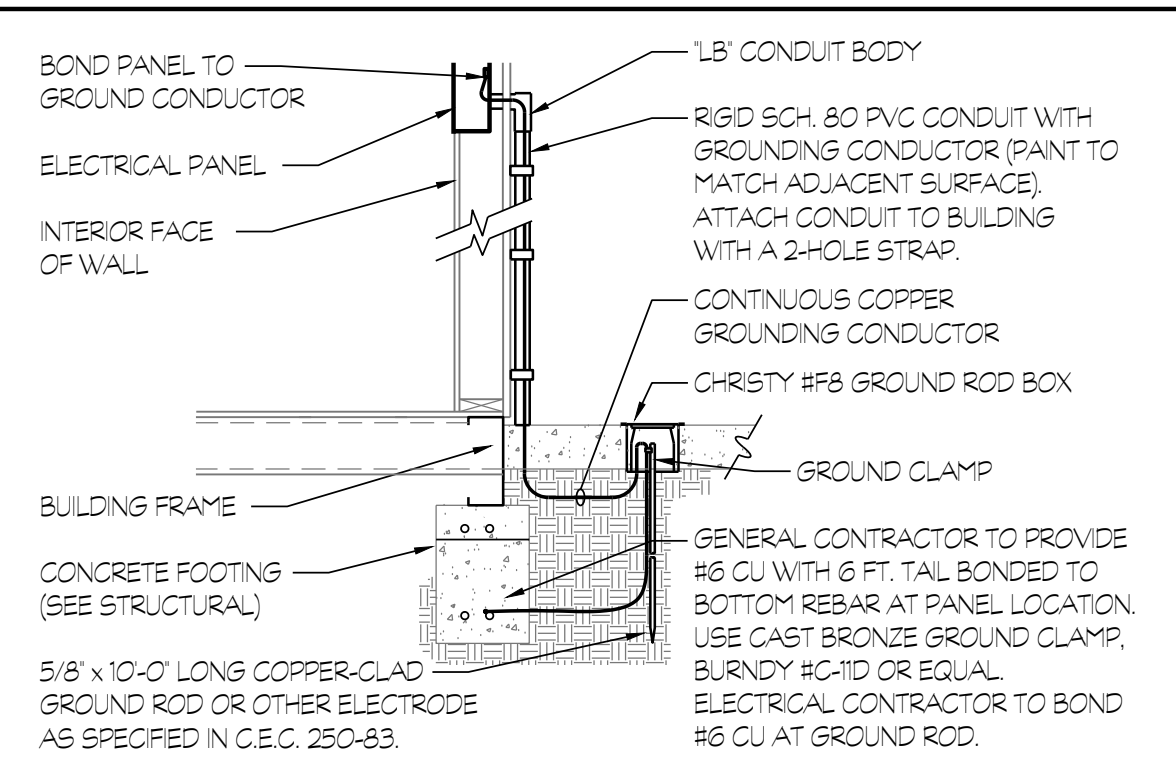


NOTE: WHERE PULL BOX IS ADJACENT TO CONCRETE WALK, EXTEND MOWSTRIP TO CONNECT WITH WALK. FOAM SEAL ALL CONDUITS IN YARD BOXES.

NOTE: INTERIOR DIMENSIONS MEASURED AT "OPENING" OF PULL BOX.

6 PULL BOX MOUNTING

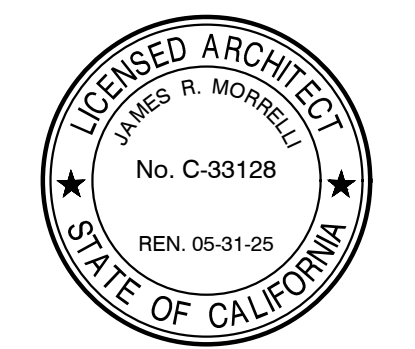
NTS



TEST SPECIFICATION FOR ELECTRODE GROUNDING SYSTEM
 THE GROUND ELECTRODE(S) SHALL BE TESTED BY THE FALL OF POTENTIAL METHOD AS SPECIFIED IN IEEE STD. 81-983 & SHOWN TO BE 25 OHMS OR LESS. A COPY OF THE TEST REPORT SHALL BE SUBMITTED TO THE ARCHITECT. PROJECT INSPECTOR SHALL WITNESS TEST.

7 GROUNDING ELECTRODE SYSTEM

NTS



DATE: AUGUST 1, 2022

NEW MODULAR FOOD SERVICE BUILDING AT KINGS LAKE EDUCATION CENTER
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TITLE
 DETAILS
 PANEL SCHEDULES

E1.2

PROJECT **2143**

Z:\Drawing\Jobs\155\1550003\1550003.dwg User: Eric - New Mod. Food Service Bldg\155.dwg DATE: 06/01/22 BY: Corey DATE PLOTTED: 06/01/22 JOB #: 21-183-05

DESCRIPTION	QUANTITY	SUPV. CURRENT		ALARM CURRENT	
		EACH	SUB-TOTAL	EACH	SUB-TOTAL
FIRE ALARM CONTROL PANEL	1	0.501	0.501	0.654	0.654
(E) HORNS	7			0.0357	0.250
(E) VISUALS	3			0.0800	0.250
SMOKE DETECTOR	4	0.0003	0.0012	0.0065	0.026
ATTIC HEAT DETECTOR	2	0.0003	0.0006	0.0065	0.013
MONITOR MODULE	6	0.000375	0.00225	0.005	0.03
TOTALS			0.50505		1.223

TOTAL ALARM CURRENT OF 1.223 x 0.250 (15 MINUTES) = 0.3058 A.H.
 TOTAL SUPERVISORY CURRENT OF 0.50505 x 24 HOURS = 12.12 A.H.
 TOTAL AMP HOURS REQUIRED = 12.4258 A.H.
 x 1.2 SAFETY FACTOR = 14.911 A.H.

PROVIDE A MINIMUM OF 22.0 AMP HOUR BATTERIES.

DESCRIPTION	QUANTITY	SUPV. CURRENT		ALARM CURRENT	
		EACH	SUB-TOTAL	EACH	SUB-TOTAL
POWER EXPANDER PANEL	1	0.075	0.075	0.206	0.206
(A) SPEAKER/5cd STROBE (CEILING)	4			0.041	0.164
TOTALS			0.075		0.37

TOTAL ALARM CURRENT OF 0.37 x 0.250 (15 MINUTES) = 0.0925 A.H.
 TOTAL SUPERVISORY CURRENT OF 0.075 x 24 HOURS = 1.8 A.H.
 TOTAL AMP HOURS REQUIRED = 1.8925 A.H.
 x 1.2 SAFETY FACTOR = 2.271 A.H.

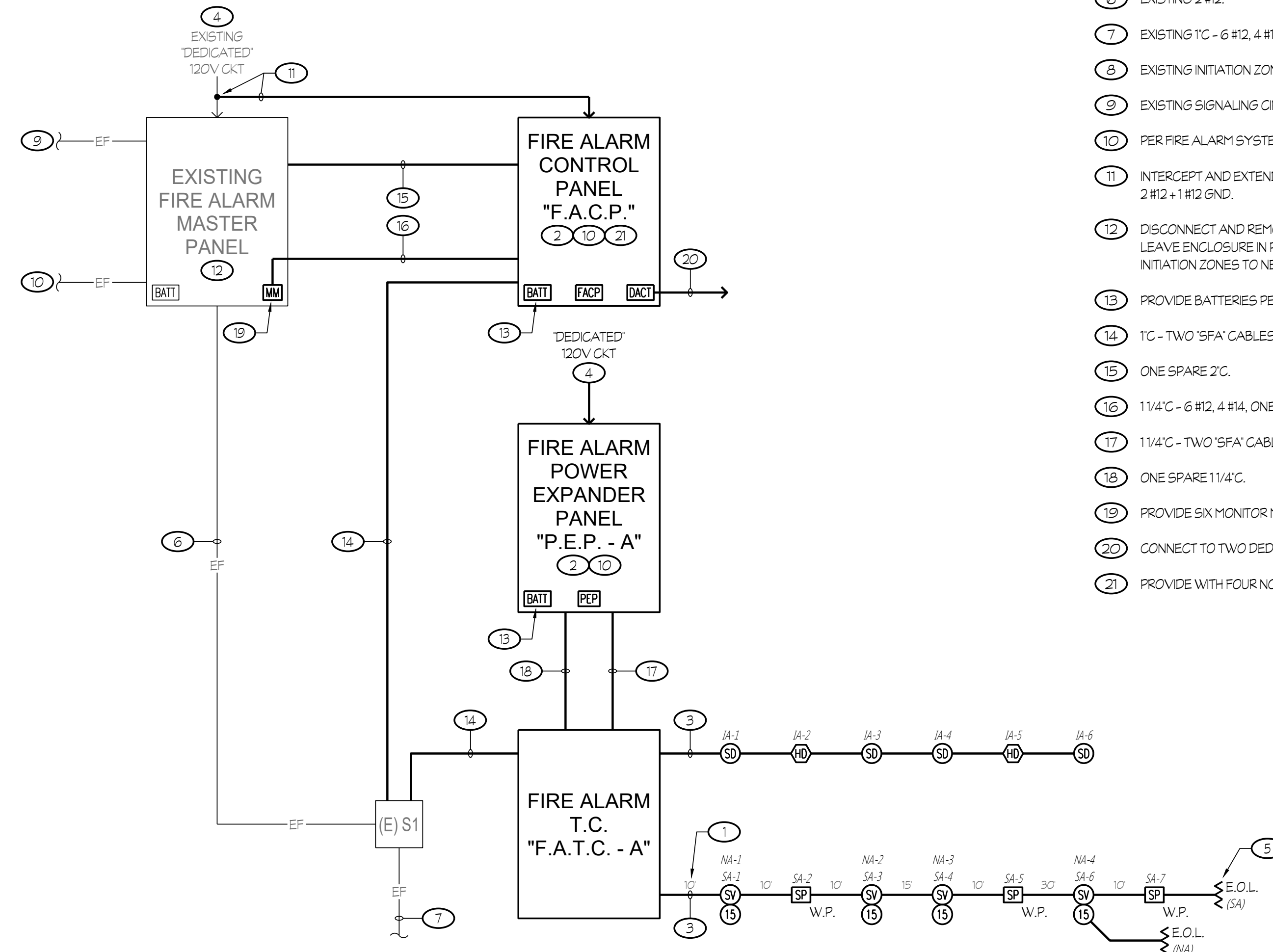
PROVIDE 7.0 AMP HOUR BATTERIES

(A) THE CURRENT VALUES LISTED ARE FOR THE STROBES ONLY. THE SPEAKER CURRENT IS INCLUDED IN THE VALUES LISTED UNDER THE DIGITAL AMPLIFIER.

VOLTAGE DROP CALCULATIONS (OHM'S LAW)	
VOLTAGE DROP =	$2 \left(\frac{\text{DC RESISTANCE AT } 75^{\circ}\text{C}}{\text{FROM TABLE 8, C.E.C.}} \right) \left(\frac{\text{LENGTH OF CIRCUIT}}{1000} \right) \left(\frac{\text{CURRENT}}{1} \right)$
PERCENT VOLTAGE DROP =	$\frac{\text{VOLTAGE DROP}}{\text{NOMINAL VOLTAGE}} \times 100$
1. NOTIFICATION APPLIANCE CIRCUIT "NA":	
$\frac{15}{30} : 4 \times 0.041 \text{ A} = \frac{0.164 \text{ A}}{0.164 \text{ A}}$	
VOLTAGE DROP =	$2(1.98) \left(\frac{95}{1000} \right) (0.164) = 0.062 \text{ V.D.}$
PERCENT VOLTAGE DROP =	$\frac{0.062}{24} \times 100 = 0.258 \%$

SPEAKER dB LOSS CALCULATION												
SPEAKER CIRCUIT	SPEAKER VOLTAGE	WIRE SIZE	RESISTANCE PER FOOT	FEET REQUIRED ON CIRCUIT	WIRE RESISTANCE	TOTAL WATTAGE OF SPEAKERS ON CIRCUIT	SPEAKER CURRENT (AMPS)	RESISTANCE OF SPEAKER LOAD	WIRE SIZE	ACTUAL VOLTAGE AT SPEAKER LOAD	ACTUAL WATTS AT SPEAKER LOAD	dB LOSS
S1	70V	18	0.01278	95	1.21	10	0.14	490.00	18	69.82699	9.95062847	-0.02

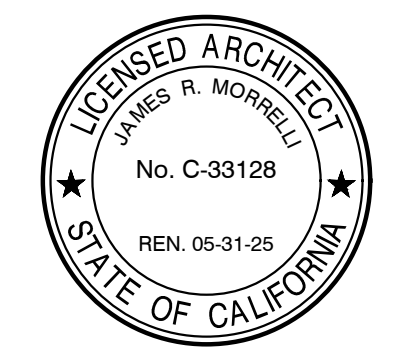
NOTE:
 CALCULATION IS BASED ON EACH OF THE INTERIOR SPEAKERS TAPPED AT 1 WATT AND EACH OF THE EXTERIOR SPEAKERS TAPPED AT 2 WATTS.



1 FIRE ALARM SYSTEM RISER DIAGRAM

NOTES (THIS SHEET ONLY):

- (1) LENGTHS INDICATED WERE USED FOR CALCULATIONS/DESIGN PURPOSES ONLY AND BASED UPON THE DIAGRAMMATIC LAYOUT SHOWN ON THE DRAWINGS. LENGTHS SHALL NOT BE USED FOR BIDDING.
- (2) PROVIDE A COPY OF THE BATTERY CALCULATION FOR THE RESPECTIVE POWER EXPANDER PANEL (OR THE FIRE ALARM CONTROL PANEL F.A.C.P.). THE BATTERY CALCULATION SHALL CONTAIN INFORMATION (AS NOTED ON THESE PLANS) AND BE PLASTIC LAMINATED. MOUNT ONTO INSIDE FACE OF PANEL.
- (3) REFER TO RESPECTIVE FIRE ALARM PLAN FOR CONDUIT AND CABLING/ CONDUCTOR REQUIREMENTS, TYPICAL.
- (4) CIRCUIT BREAKER EQUIPPED WITH A LOCK-ON ACCESSORY.
- (5) DENOTES END OF LINE RESISTOR ON NOTIFICATION APPLIANCE CIRCUIT. RESISTORS SUPPLIED WITH CONTROL/EXPANDER PANELS AS REQUIRED. LOCATE RESISTORS AT END OF LINE APPLIANCES (CLASS 'B' WIRING), TYPICAL.
- (6) EXISTING 2 #12.
- (7) EXISTING TC - 6 #12, 4 #14.
- (8) EXISTING INITIATION ZONES TO REMAIN AND BE RECONNECTED.
- (9) EXISTING SIGNALING CIRCUITS TO BE RECONNECTED TO NEW.
- (10) PER FIRE ALARM SYSTEM EQUIPMENT LEGEND.
- (11) INTERCEPT AND EXTEND TO CONNECT NEW FIRE ALARM CONTROL PANEL WITH 1/2" - 2 #12 + 1 #12 GND.
- (12) DISCONNECT AND REMOVE INTERIORS AND DISPOSE OF AS DIRECTED BY OWNER. LEAVE ENCLOSURE IN PLACE AS A T.C. FOR RECONNECTION OF EXISTING NACS AND INITIATION ZONES TO NEW MODULES.
- (13) PROVIDE BATTERIES PER RESPECTIVE BATTERY CALCULATION.
- (14) TC - TWO 'SFA' CABLES.
- (15) ONE SPARE 2" C.
- (16) 1 1/4" C - 6 #12, 4 #14, ONE 'FA' CABLE.
- (17) 1 1/4" C - TWO 'SFA' CABLES, ONE 'SF' CABLE, 2 #12.
- (18) ONE SPARE 1 1/4" C.
- (19) PROVIDE SIX MONITOR MODULES.
- (20) CONNECT TO TWO DEDICATED PHONE LINES.
- (21) PROVIDE WITH FOUR NOTIFICATION N.A.C. CIRCUITS AND TWO SIGNALING LINE CIRCUITS.



NEW MODULAR FOOD SERVICE BUILDING AT KINGS LAKE EDUCATION CENTER CORCORAN JOINT UNIFIED SCHOOL DISTRICT 1128 S. DAIRY AVENUE, CORCORAN, CA 93212

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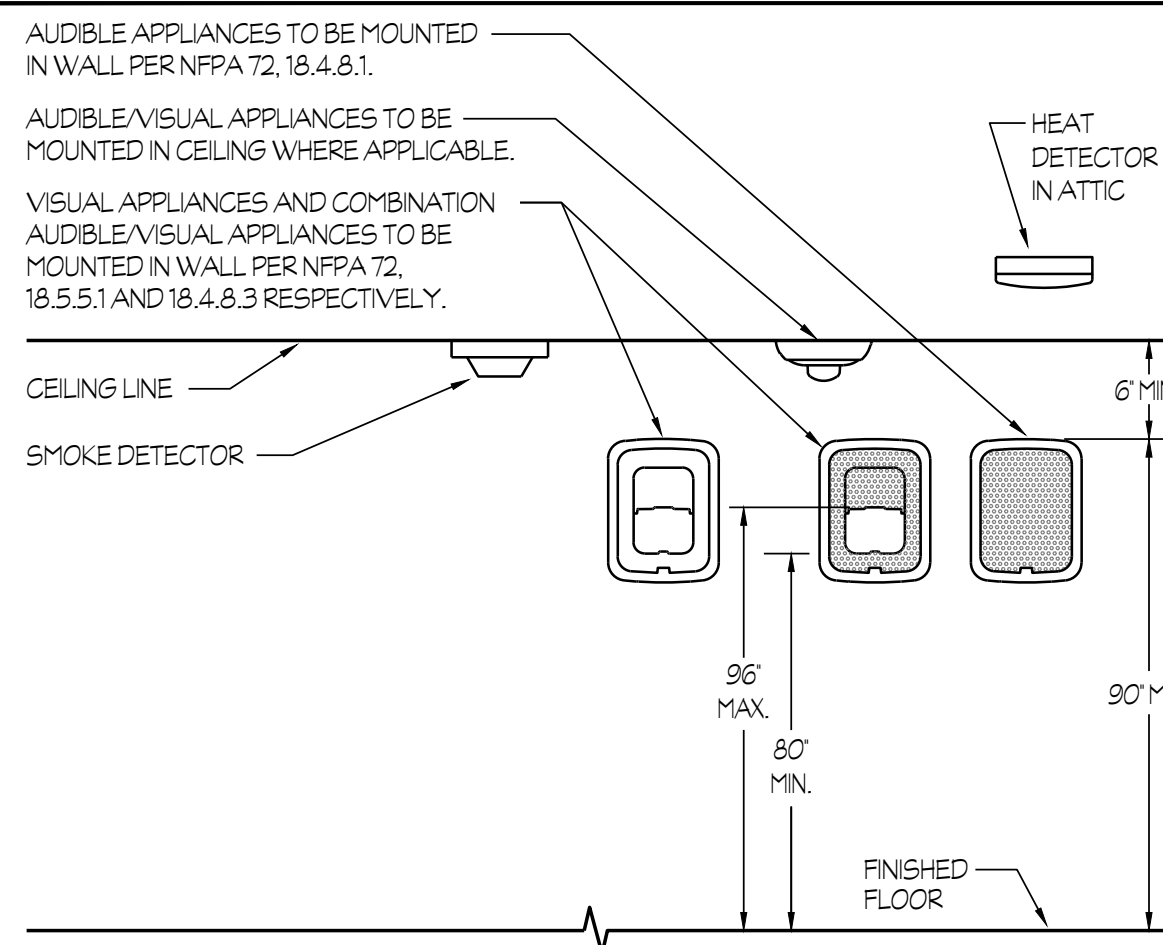
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TITLE
 FIRE ALARM SYSTEM RISER DIAGRAM AND CLACULATIONS

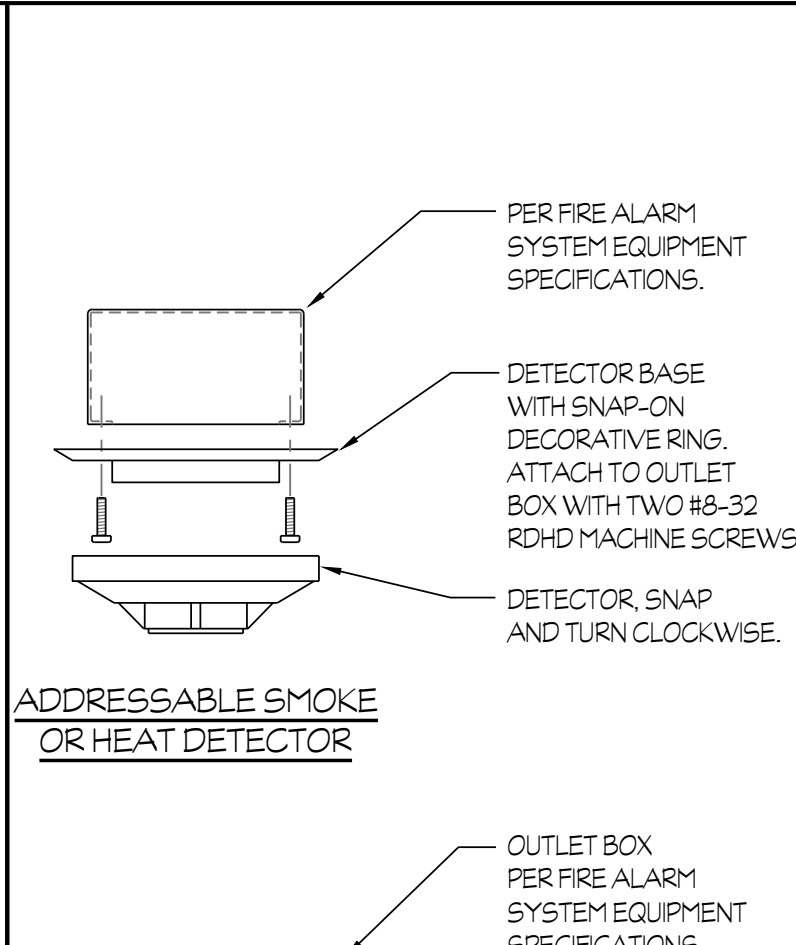
E2.2
 PROJECT 2143



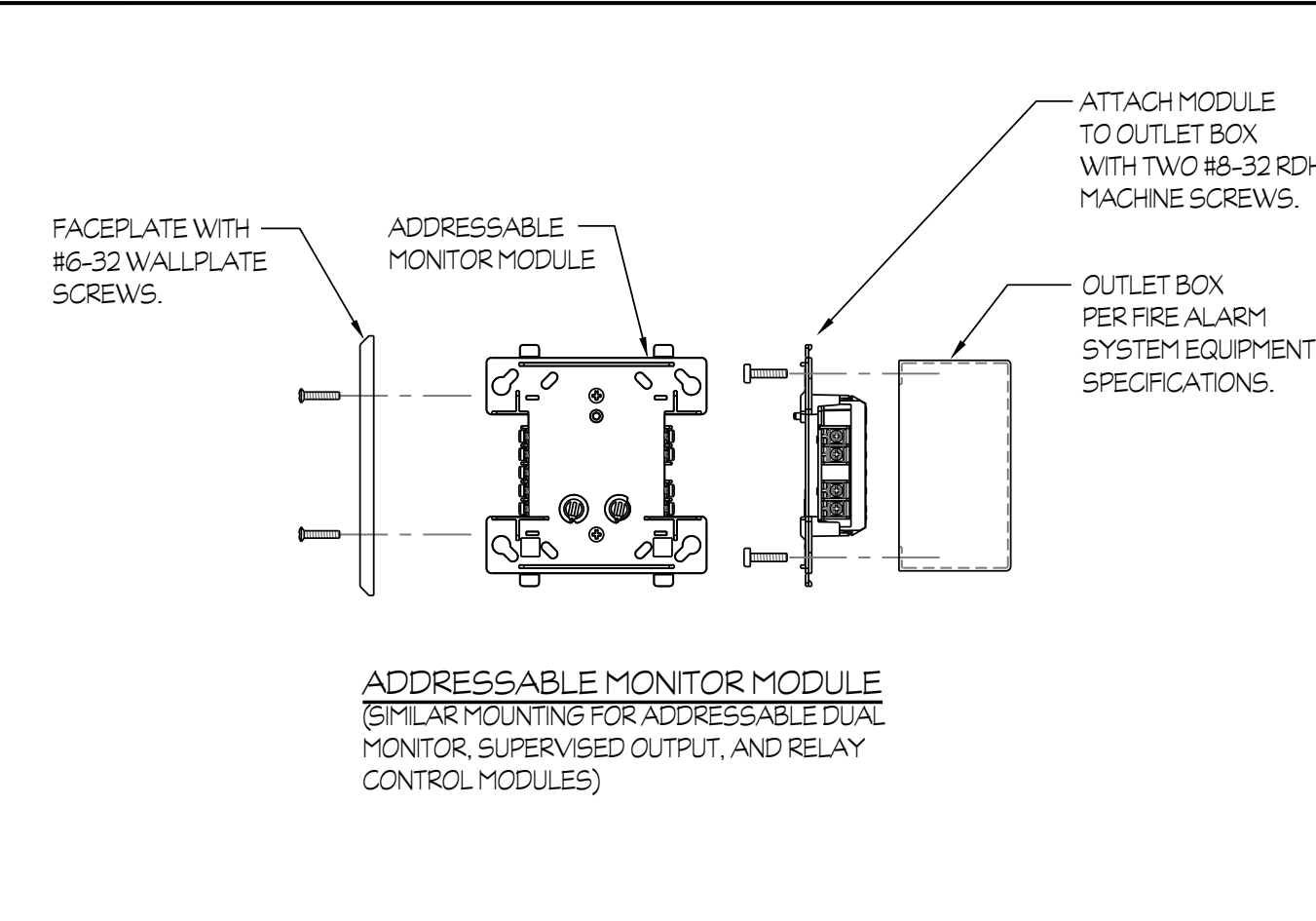
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 Visalia, California 93292-6705



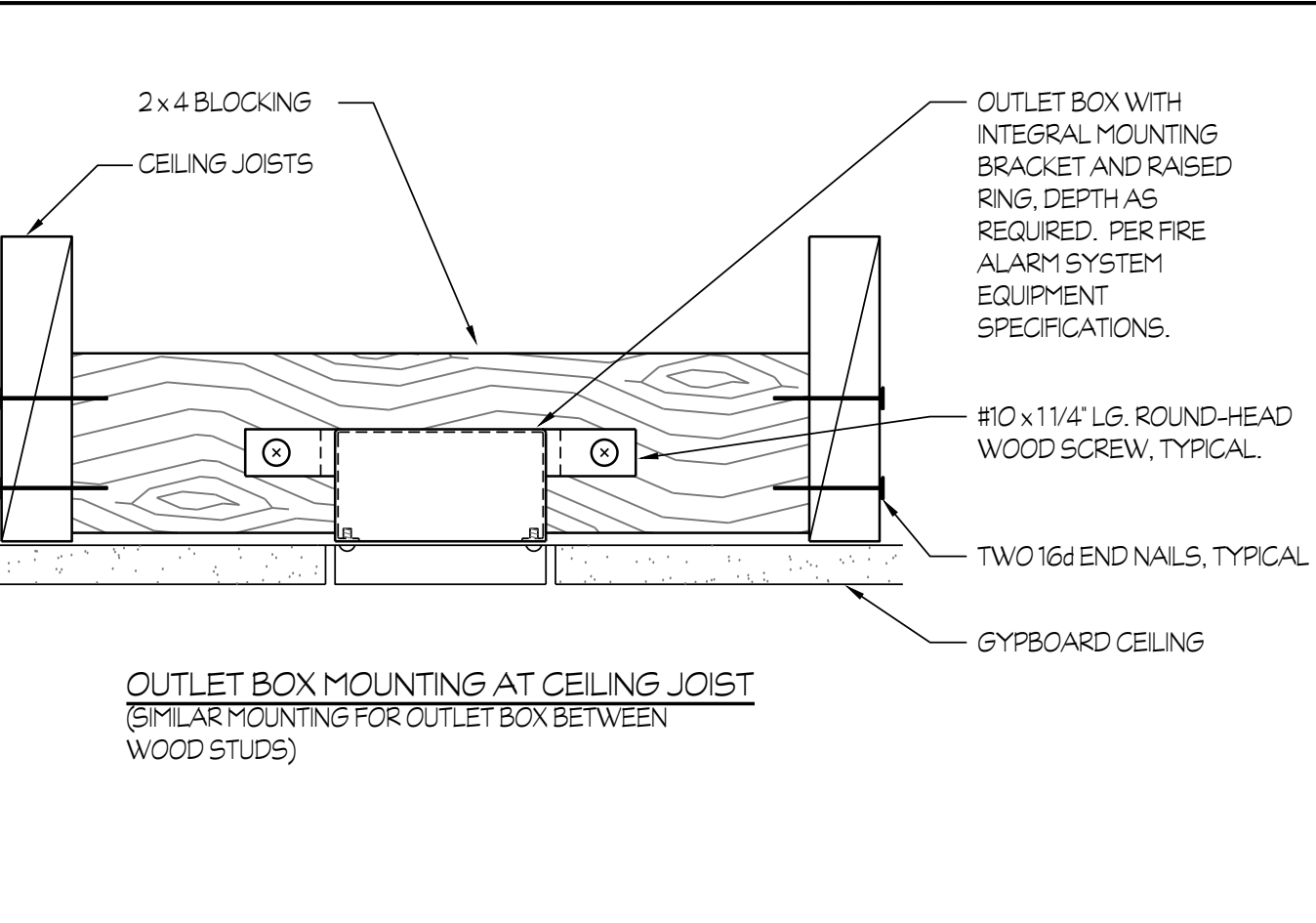
1 FIRE ALARM DEVICES ELEVATION NTS



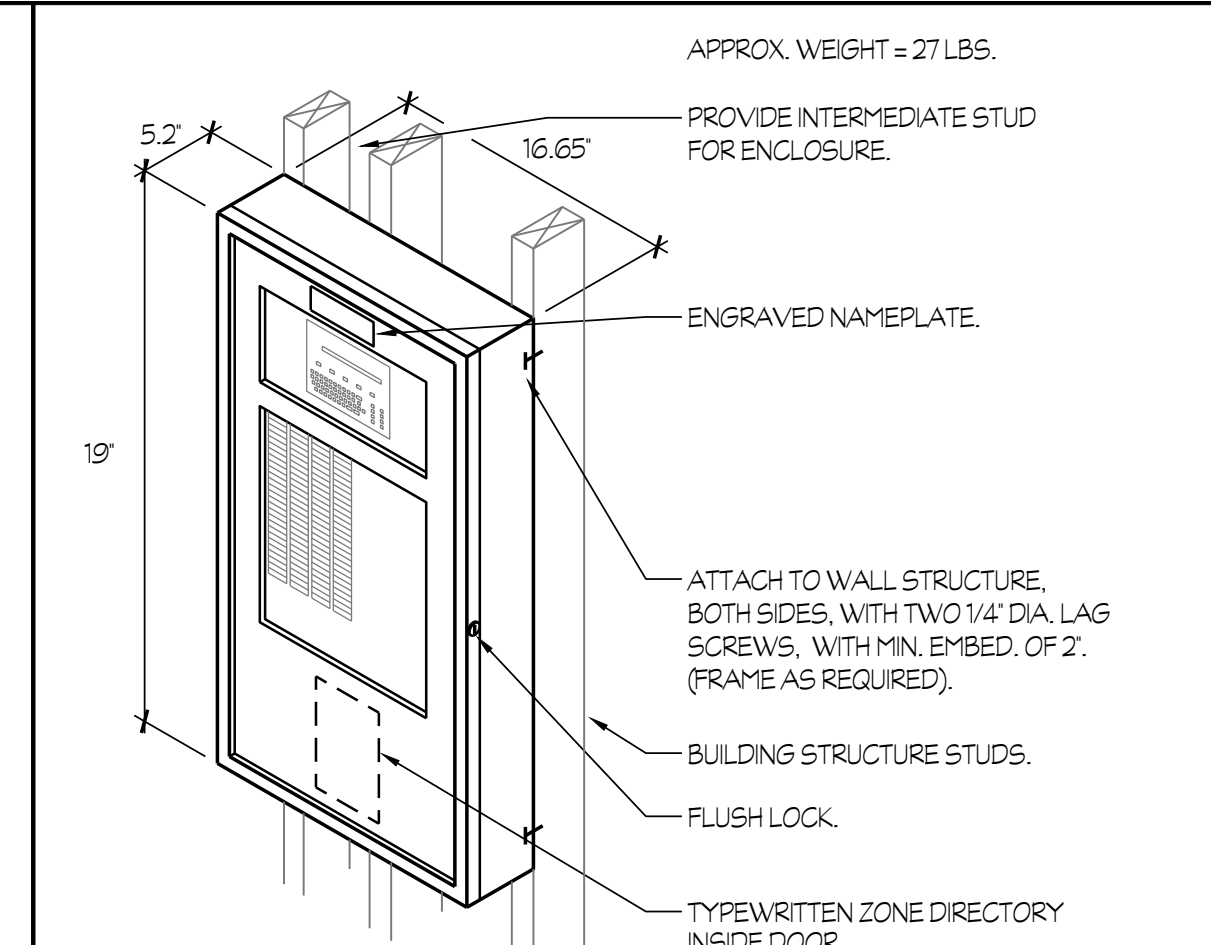
ADDRESSABLE SMOKE OR HEAT DETECTOR



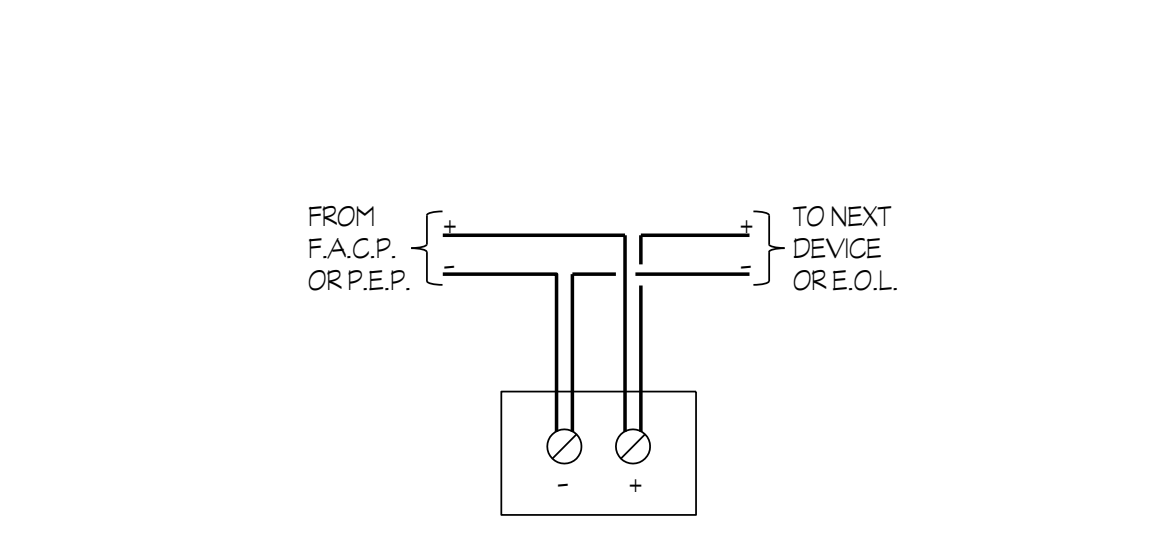
ADDRESSABLE MONITOR MODULE (SIMILAR MOUNTING FOR ADDRESSABLE DUAL MONITOR, SUPERVISED OUTPUT, AND RELAY CONTROL MODULES)



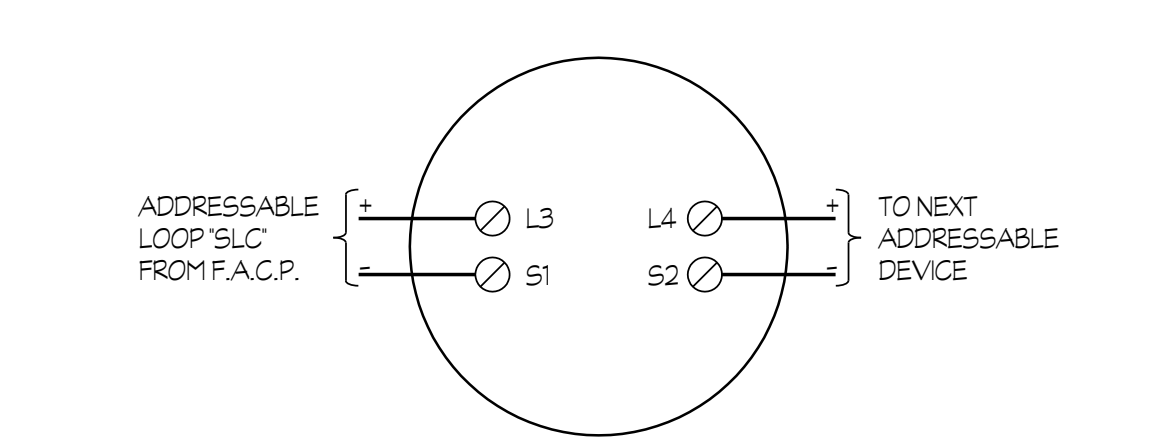
OUTLET BOX MOUNTING AT CEILING JOIST (SIMILAR MOUNTING FOR OUTLET BOX BETWEEN WOOD STUDS)



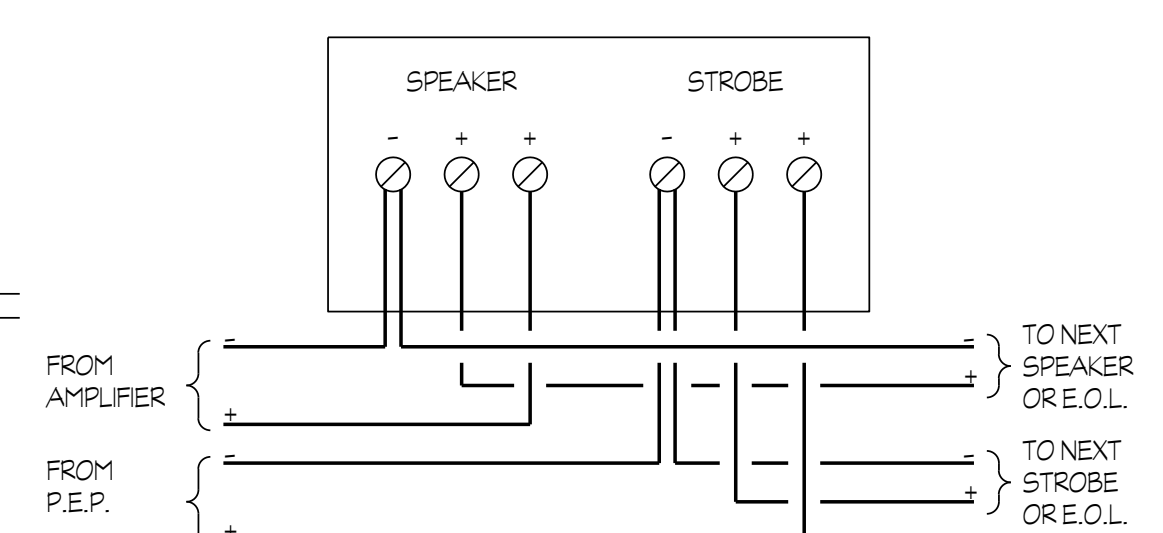
8 FIRE ALARM CONTROL PANEL 'F.A.C.P.' NTS



STROBE OR SPEAKER

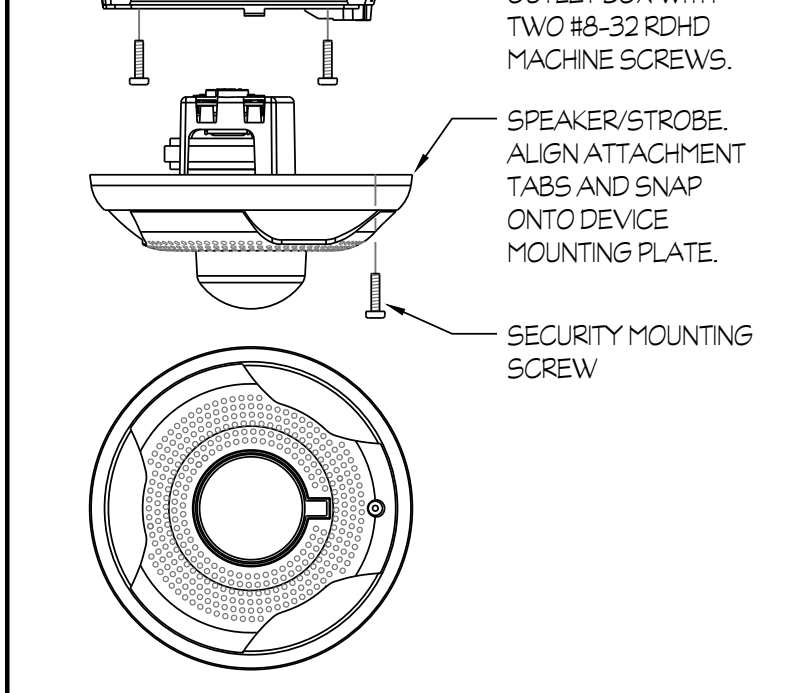


SMOKE OR HEAT DETECTOR

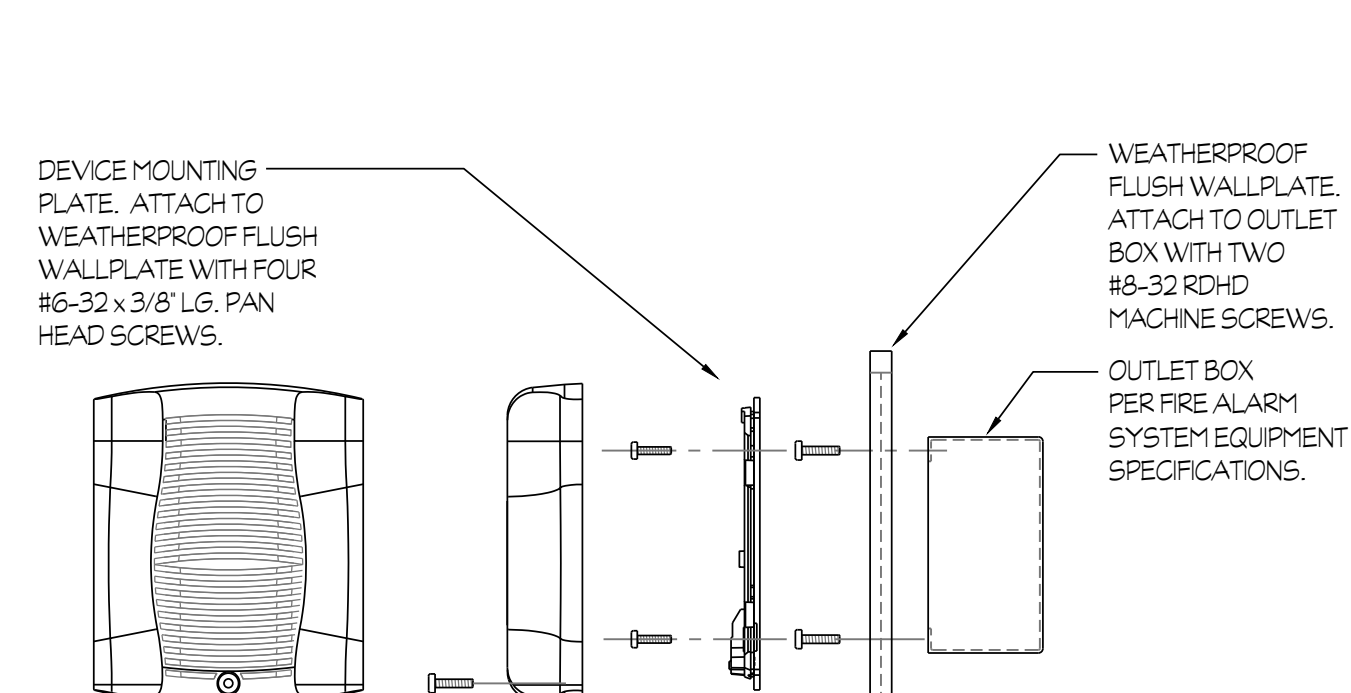


SPEAKER/STROBE

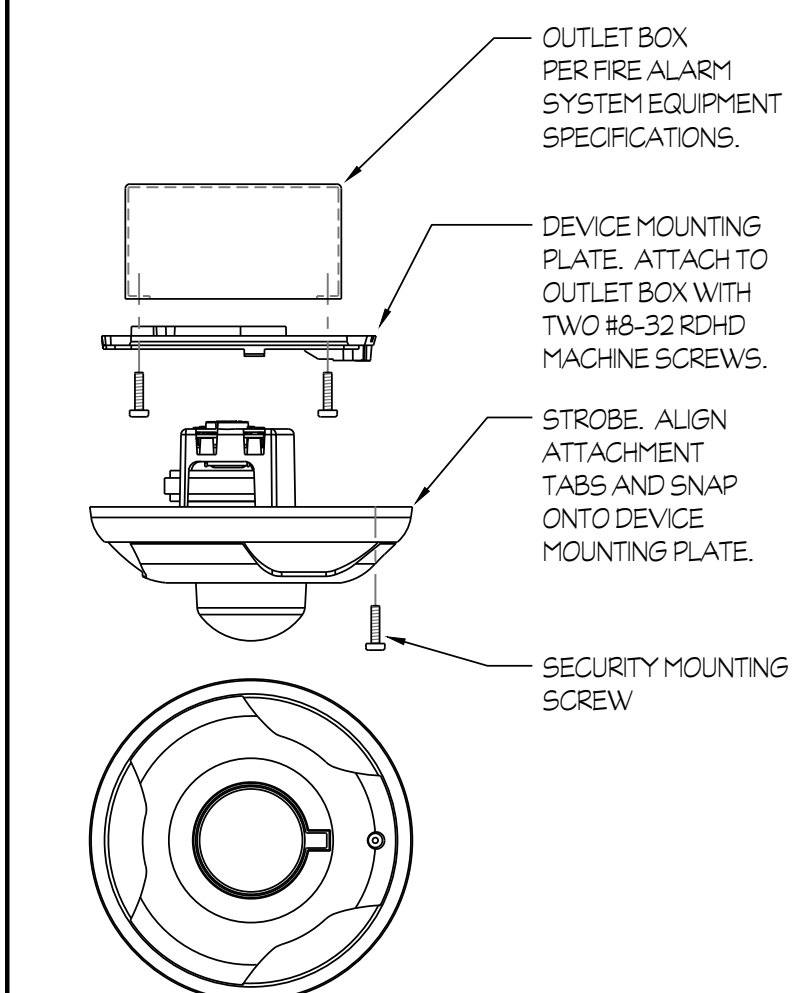
2 FIRE ALARM SYSTEM WIRING DIAGRAMS NTS



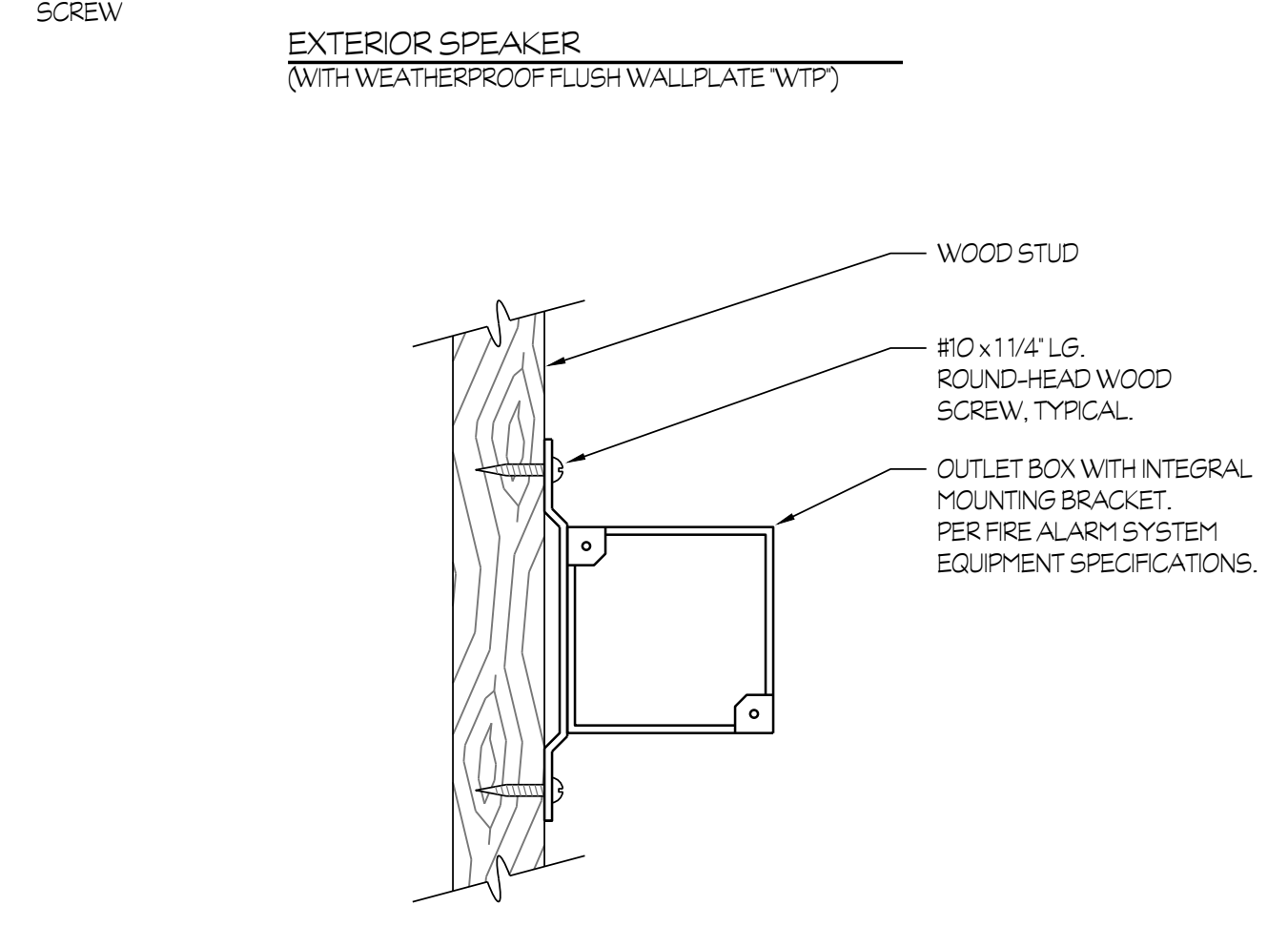
CEILING SPEAKER/STROBE



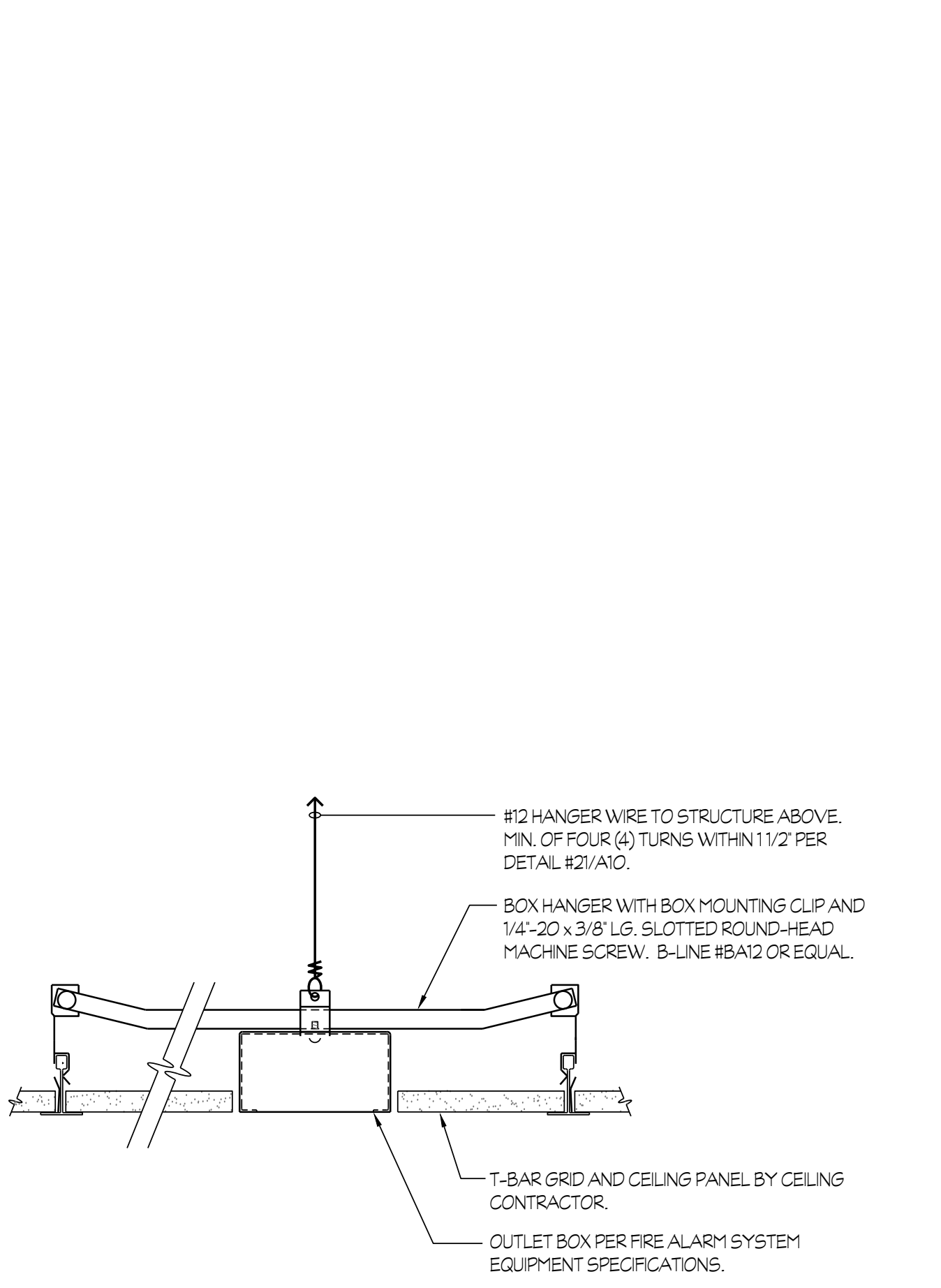
EXTERIOR SPEAKER (WITH WEATHERPROOF FLUSH WALLPLATE 'WTP')



CEILING STROBE

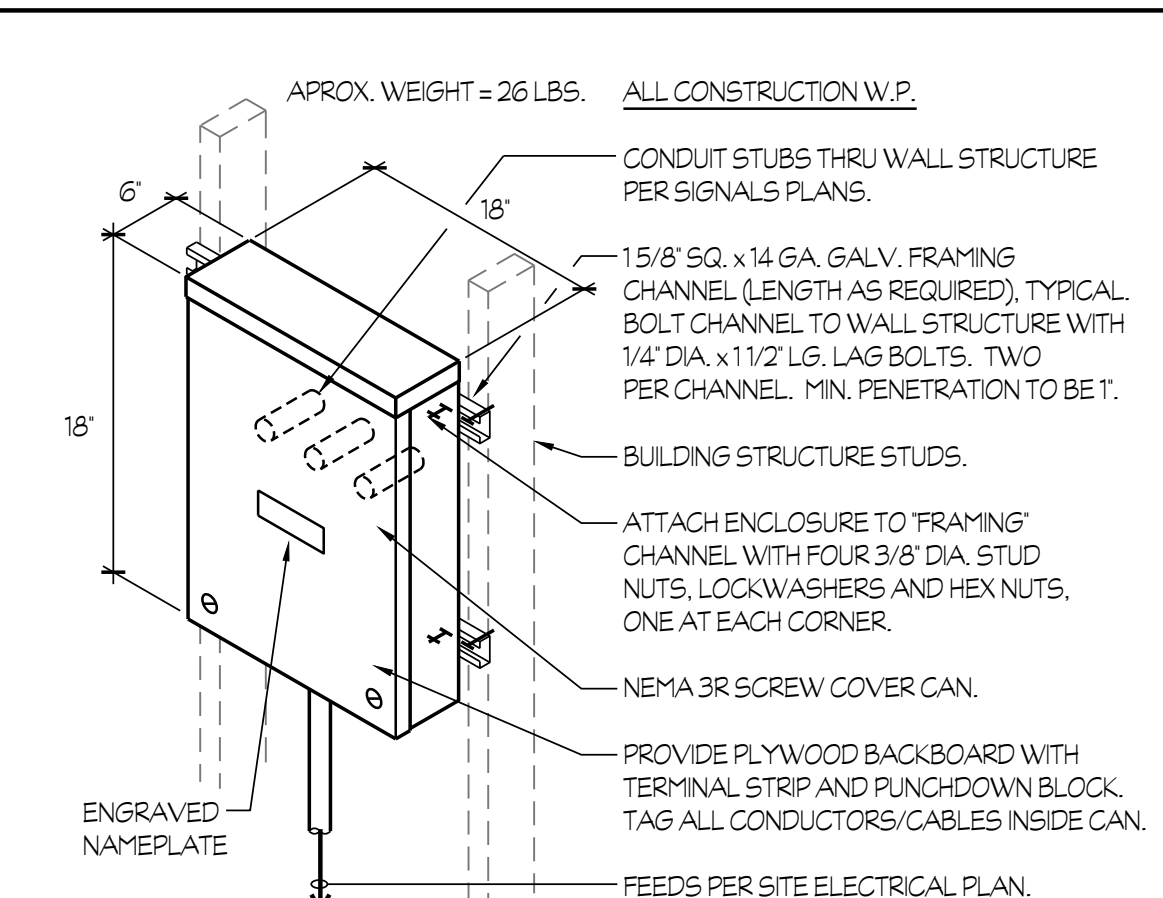


OUTLET BOX MOUNTING ONTO WOOD STUD (SIMILAR MOUNTING FOR OUTLET BOX AT CEILING JOISTS)

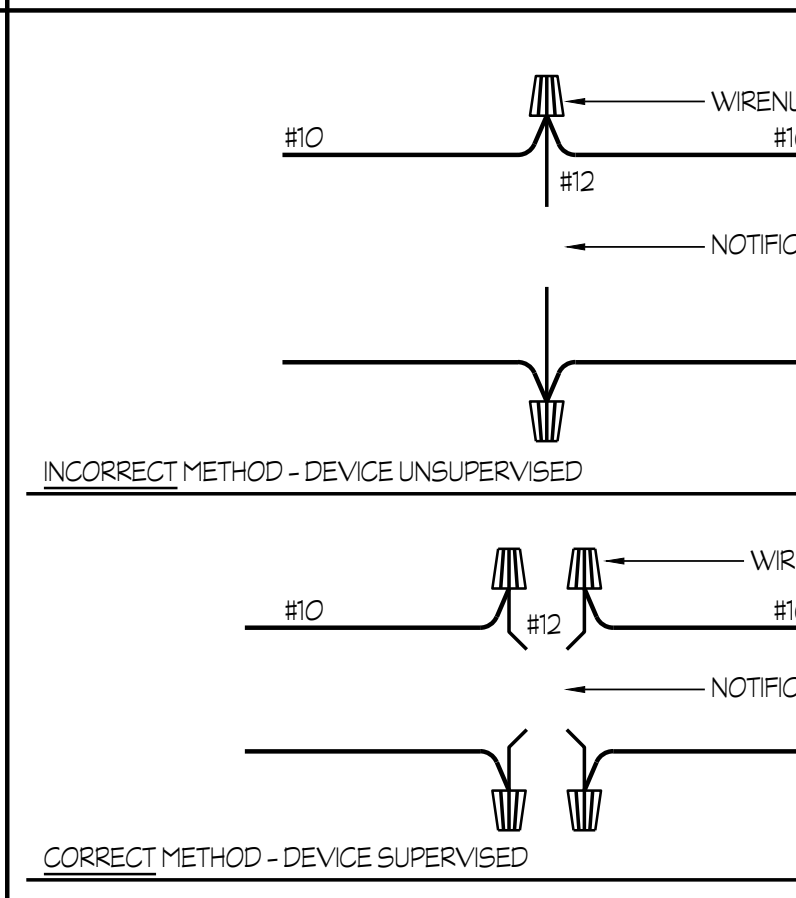


OUTLET BOX MOUNTING AT SUSPENDED T-BAR CEILING

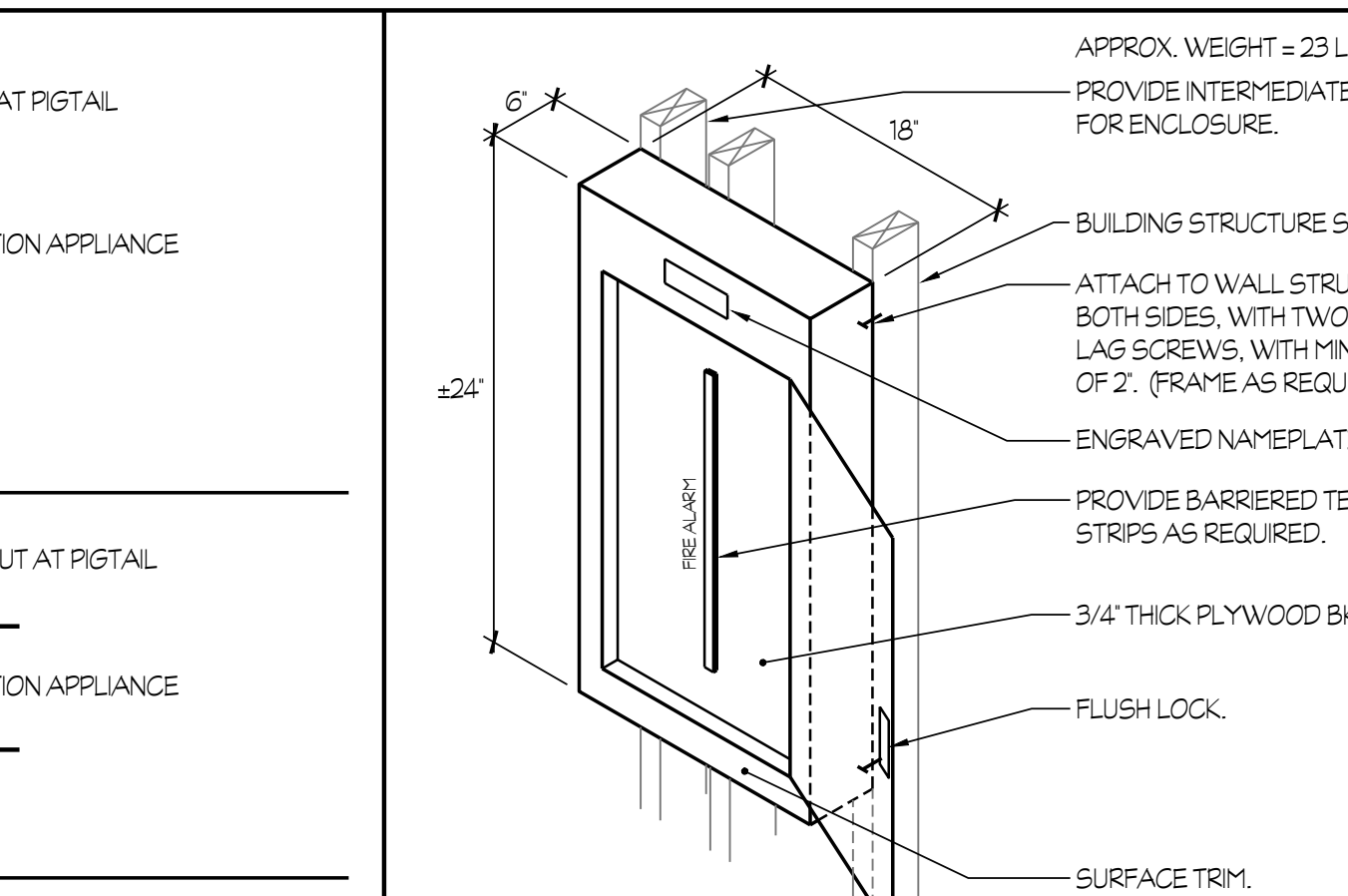
4 FIRE ALARM DEVICES MOUNTING NTS



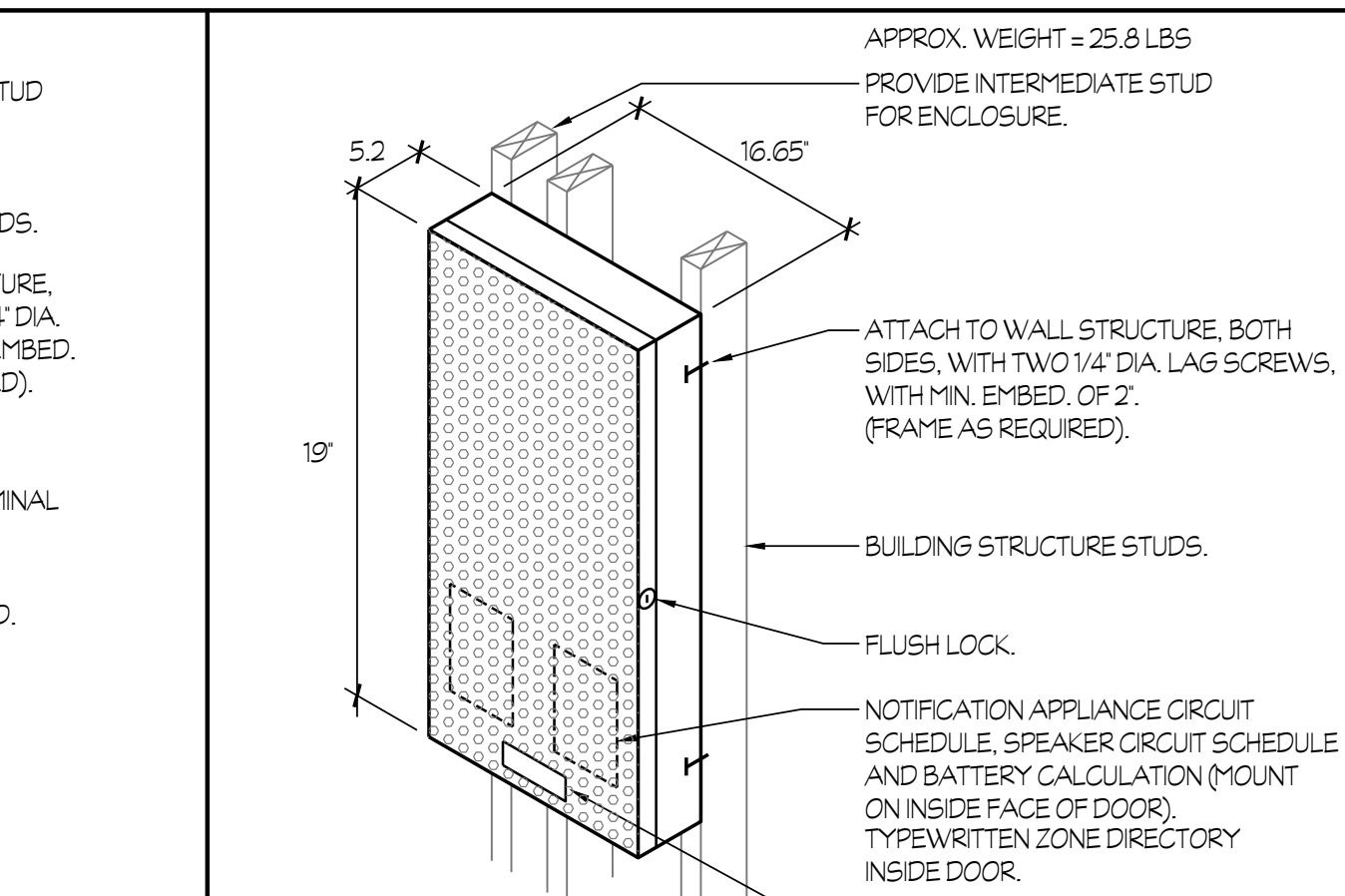
3 PULL ENCLOSURE MOUNTING NTS



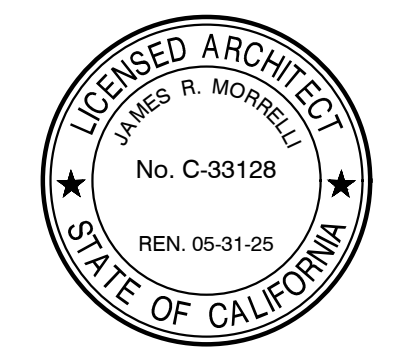
5 PIGTAIL WIRING DETAIL NTS



6 FIRE ALARM TERMINAL CABINET 'F.A.T.C. - A' MOUNTING NTS



7 FIRE ALARM POWER EXTENDER PANEL 'P.E.P. - A' NTS



DATE: AUGUST 1, 2022

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TITLE

FIRE ALARM DETAILS
E2.3

PROJECT **2143**



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 Visalia, California 93292-6705

Z:\Drawing\Jobs\1853\18530003\18530003.dwg DATE: 08/05/22 BY: Casey DATE PLOTTED: 08/05/22 JOB #: 21-1853-05



American Modular Systems
CORCORAN JOINT USD - KINGS LAKE EDUCATION CENTER

SERIAL NUMBER 22-841-001

(1) 12' x 40' BUILDING



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120247 INC:
REVIEWED FOR
SS FLS ACS
DATE: 06/24/2022



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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING



SITE SPECIFIC PROJECT NAME
CORCORAN JOINT USD
KINGS LAKE EDUCATION CENTER
(1) 12'x40' BUILDING

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
A
B
C
D

DRAWN BY: ABD
SCALE: AS NOTED
DATE: 04/25/21
PROJECT NO: 1663-21

SHEET TITLE: TITLE SHEET

SHEET NUMBER: TS

APPLICABLE CODES

- PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2019
2019 CALIFORNIA ADMINISTRATIVE CODE (CAC) - PART 1, TITLE 24, CCR)
2019 CALIFORNIA BUILDING CODE (CBC), VOLUME 1 & 2 - (PART 2, TITLE 24 CCR) BASED ON THE 2018 INTERNATIONAL BUILDING CODE WITH 2019 CALIFORNIA AMENDMENTS
2019 CALIFORNIA ELECTRICAL CODE (CEC) - (PART 3, TITLE 24, CCR) BASED ON THE 2017 NATIONAL ELECTRIC CODE WITH 2019 CALIFORNIA AMENDMENTS
2019 CALIFORNIA MECHANICAL CODE (CMC) - (PART 4, TITLE 24, CCR) BASED ON THE 2018 UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS
2019 CALIFORNIA PLUMBING CODE (CPC) - (PART 5, TITLE 24, CCR) BASED ON THE 2018 UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS
2019 CALIFORNIA ENERGY CODE (CEC) - (PART 6, TITLE 24, CCR) WITH 2019 CALIFORNIA AMENDMENTS
2019 CALIFORNIA FIRE CODE (CFC) - (PART 9, TITLE 24, CCR) BASED ON THE 2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS
2019 CALIFORNIA GREEN BUILDING CODE (CGC) - (PART 11, TITLE 24, CCR)
2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
PARTIAL LIST OF APPLICABLE STANDARDS
NFPA 13 AUTOMATIC SPRINKLER SYSTEM 2016 EDITION
NFPA 14 STANDPIPE AND HOSE SYSTEMS 2016 EDITION
NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2017 EDITION
NFPA 17A WET CHEMICAL EXTINGUISHING SYSTEMS 2017 EDITION
NFPA 20 STATIONARY PUMPS 2016 EDITION
NFPA 24 PRIVATE FIRE MAINS 2016 EDITION
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE: SEE ILL. STANDARD 1971 FOR "VISUAL DEVICES") 2016 EDITION
NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS 2015 EDITION
NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2015 EDITION

GENERAL NOTES

- 1. SUBSTITUTION OF PRODUCTS OR PROCESSES WHICH CHANGE THE STRUCTURAL SAFETY, FIRE & LIFE-SAFETY, OR ACCESSIBILITY OF THIS BUILDING SHALL BE SUBMITTED TO THE DSA AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT.
2. PC BUILDING APPROVED ONLY FOR OCCUPANCY "E" OR "B".
3. PC BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
4. PC BUILDINGS LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A. PC IS NOT APPROVED FOR WUI.
5. AUTOMATIC SPRINKLER SYSTEMS MIGHT BE REQUIRED FOR SITE SPECIFIC PROJECTS. OPTIONAL AUTOMATIC FIRE SPRINKLER DESIGNS ARE NOT INCLUDED IN THIS PC APPROVAL. (NOTE: SEE BUILDING DATA THIS SHEET FOR FIRE SPRINKLER SYSTEM WEIGHT INCLUDED IN BUILDING DESIGN)
6. FIRE SERVICE UNDERGROUND SHALL BE REVIEWED AS A SITE SPECIFIC APPLICATION. WATER SUPPLY SHALL BE DESIGNED TO MEET THE PC SPRINKLER DEMAND REQUIREMENTS.
7. PROVIDE A SITE SPECIFIC FIRE FLOW LETTER OF CERTIFICATION FROM AN APPROVED WATER PURVEYOR OR LOCAL FIRE AUTHORITY.
8. THIS PC PLAN SHALL NOT BE USED TO HOUSE "ROOMS OR AREAS WITH SPECIAL HAZARDS" SUCH AS LABORATORIES, VOCATIONAL SHOPS AND OTHER SUCH AREAS NOT CLASSIFIED AS GROUP H, LOCATED IN GROUP E OCCUPANCIES.
9. A SEPARATE NON-PC DSA APPLICATION NUMBER (SITE SPECIFIC JOB) IS REQUIRED FOR DESIGN & ROOF-TOP INSTALLATION OF SOLAR PANEL SYSTEMS. ITS ANCHORAGE & SUPPORT STRUCTURE ABOVE THE ROOF FRAMING. THE PC ROOF FRAMING IS DESIGNED FOR SOLAR PANELS TO BE INSTALLED FLAT ON THE ROOF. (NOTE: SEE BUILDING DATA THIS SHEET FOR SOLAR PANEL SYSTEM WEIGHT & WIND LOAD INCLUDED IN BUILDING DESIGN FOR ROOF-TOP.) SUBMITTALS OF ROOF-TOP SOLAR SYSTEM SHALL NOT BE SUBMITTED AS AN OVER-THE-COUNTER SUBMITTAL.
10. IF THE STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND SITE SPECIFIC PROJECT SUBMITTAL IS REQUIRED. IF THE SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.
11. THIS PC BUILDING IS NOT DESIGNED FOR FLOOD HAZARD AREAS. WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A GEOTECHNICAL ENGINEER IS NEEDED TO VALIDATE THAT THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC DRAWINGS ARE STILL APPLICABLE. UNLESS THE BOTTOMS OF FOUNDATIONS ARE RAISED ABOVE THE DESIGN FLOOD ELEVATION, A VALIDATION LETTER FROM THE GEOTECHNICAL ENGINEER SHALL BE PROVIDED, EVEN IF THE PRESUMPTIVE LOAD-BEARING VALUES PER CBC SECTION 1806A.2 ARE USED. PROJECT SHALL BE EXEMPT FROM THE VALIDATION LETTER FOR PROJECTS LOCATED IN ZONE D (UNDEFINED) IF THE APPLICANT PROVIDES EVIDENCE FROM THE LOCAL JURISDICTION OR A QUALIFIED DESIGN PROFESSIONAL CONFIRMING THAT THE SITE IS NOT IN A FLOOD HAZARD ZONE. LOCATION OF ELECTRICAL ELEMENTS SHALL CONFORM TO THE AMERICAN SOCIETY OF CIVIL ENGINEERS.
12. THE PLACEMENT OF THE PC BUILDING(S) ON OR ADJACENT TO SLOPES SHALL COMPLY WITH THE FOUNDATION CLEARANCES FROM SLOPES' SPECIFICATIONS FOUND ON SHEET N2.0 OF THESE DRAWINGS.
13. PC BUILDING SHALL NOT BE PLACED OR BE RELOCATED IN AREAS HAVING A NOISE CONTOUR GREATER THAN OR EQUAL TO 65 CNEL, OR IN AREAS EXPOSED TO A NOISE LEVEL OF 65 dB Leq, 1-hr DURING ANY HOUR OF OPERATION WHEN NOISE CONTOURS ARE NOT READILY AVAILABLE, AS SPECIFIED IN CALGREEN CODE, SECTION 5.507.4.1 & 5.507.4.1.1.
14. THIS PC BUILDING IS NOT DESIGNED FOR SNOW LOADS.
15. THIS PC BUILDING IS NOT DESIGNED FOR ICE LOADS.
16. BUILDING SHALL BE MANUFACTURED IN COMPLIANCE WITH CFC CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION.
17. SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY THE CALIFORNIA GEOLOGICAL SURVEY (CGS) IS NOT REQUIRED FOR SINGLE-STORY MODULAR BUILDINGS PROVIDED THAT THEY DO NOT EXCEED 4,000 SQUARE FEET IN PLAN AREA AND ARE NOT LOCATED WITHIN STATE OR LOCAL GEOLOGICAL HAZARD ZONES IN ACCORDANCE WITH IR A-4, SECTION 3.2.1.

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BUILDING DATA

Table with columns for OCCUPANCY, TYPE OF CONSTRUCTION, WIND LOAD, ICE LOAD, SNOW LOAD, ROOF LIVE LOAD, FLOOR LIVE LOAD, DESIGN DEAD LOADS, FIRE SPRINKLER SYSTEM DESIGN WT., ROOF SOLAR PANEL SYSTEM DESIGN WT., ALLOWABLE SOIL PRESSURE, FLOOD HAZARD AREA, RAIN INTENSITY, BUILDING AREA, CLIMATE ZONE, MODULES, SYSTEM, FOUNDATION TYPE.

SITE-SPECIFIC OPTIONS

Table with columns for FLOOR DECK, WALL STUDS, EXTERIOR WALL FINISH, HVAC, ROOFING, ROOF PITCH, ROOF DIAPHRAGM, FRONT OVERHANG, REAR OVERHANG, SOLATUBE ON ROOF, FIRE SPRINKLERS, PARAPETS, SOLAR PANELS, OPTIONAL SIDE WALL CANOPY, LIQUEFIABLE SOILS, MAPPED GEOHAZARD ZONE, GEOHAZARD REPORT, GEOTECHNICAL FIRM, DEEPER FOOTINGS REQUIRED?, WIDER FOOTINGS REQUIRED?, BELOW GRADE CONCRETE MIX DESIGN.

SITE SPECIFIC WIND CRITERIA

SITE SPECIFIC BASIC WIND SPEED = 94 MPH WIND EXPOSURE = C

SITE SPECIFIC SEISMIC VALUES

SITE SPECIFIC Ss = 0.782 SITE SPECIFIC S1 = 0.283 SITE CLASS = D
(NOTE: SITE SHALL BE SITE CLASS "D" IF NO SOILS REPORT UNLESS THERE IS EVIDENCE OF CLASS "E" OR "F" SOILS PRESENT.)

PC BUILDING SEISMIC DESIGN CRITERIA

le = 1.0 T = 0.231s R = 3.5 (OMF) RISK CATEGORY II
Omega_o = 3.0 Cd = 3.0 rho = 1.3 SEISMIC DESIGN CATEGORY: D (Ss < 0.75) E (Ss >= 0.75)
MAXIMUM STORY DRIFT RATIO = 2.0% (I.E. MAX DRIFT = 0.020 x THE HEIGHT UNDER CONSIDERATION)
LATERAL FORCE RESISTING SYSTEM: LIGHT MODULAR STEEL MOMENT FRAMES PER 2212A
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
NO SOILS REPORT - ASSUMED SITE CLASS "D"
Ss = 1.631 MAX (SITE) Fa = 1.2 Sds = 1.30 MAX (SITE)
1.631 (DESIGN) S1 = 1.147 MAX (SITE & DESIGN) Fv = 1.7 Sd1 = 1.30 MAX (SITE & DESIGN) Cs = 0.485 W (DESIGN) S05 = 1.30

WITH SOILS REPORT - SITE CLASS "A", "B" OR "D"

NOTE: PER EXCEPTION 2 OF ASCE 7-16 SECTION 11.4.8, GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED FOR SITE CLASS "D".
Ss = 1.955 MAX (SITE) Fa = 1.0 Sds = 1.30 MAX (SITE)
1.955 (DESIGN) S1 = 1.147 MAX (SITE & DESIGN) Fv = 1.7 Sd1 = 1.30 MAX (SITE & DESIGN) Cs = 0.485 W (DESIGN) S05 = 1.30

WITH SOILS REPORT - SITE CLASS "C"

Ss = 1.631 MAX (SITE) Fa = 1.2 Sds = 1.30 MAX (SITE)
1.631 (DESIGN) S1 = 1.393 MAX (SITE & DESIGN) Fv = 1.4 Sd1 = 1.30 MAX (SITE & DESIGN) Cs = 0.485 W (DESIGN) S05 = 1.30

WITH SOILS REPORT - SITE CLASS "E"

NOTE: PER EXCEPTION 1 & 3 OF ASCE 7-16 SECTION 11.4.8, GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED.
Ss = 1.625 MAX (SITE) Fa = 1.2 Sds = 1.30 MAX (SITE)
1.625 (DESIGN) S1 = 0.975 MAX (SITE & DESIGN) Fv = 2.0 Sd1 = 1.30 MAX (SITE & DESIGN) Cs = 0.485 W (DESIGN) S05 = 1.30

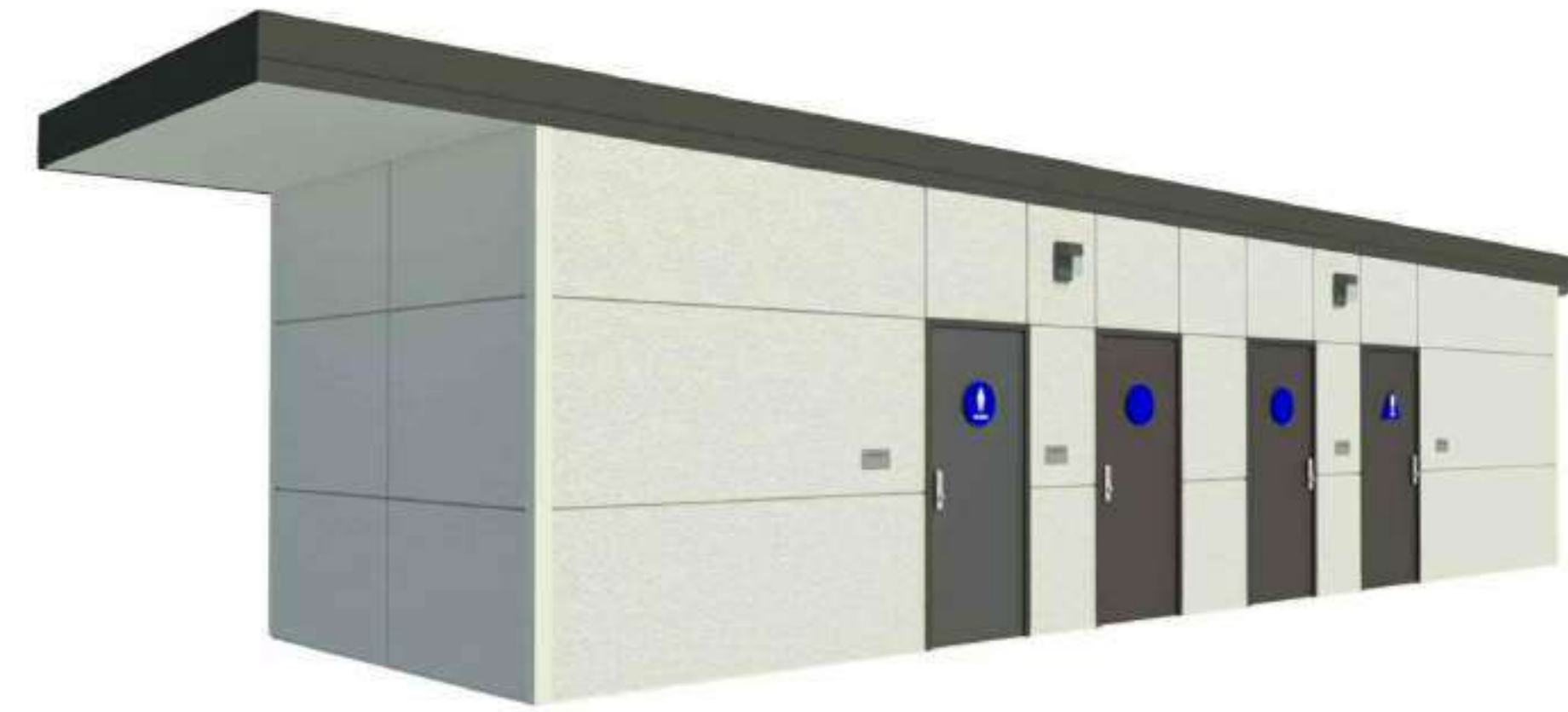
WITH SOILS REPORT - SITE CLASS "F"

PER ASCE 7-16 SECTION 11.4.8, A SITE RESPONSE ANALYSIS IN ACCORDANCE WITH SECTION 21.1 IS REQUIRED UNLESS EXEMPTED BY SECTION 20.3.1. SEE GENERAL NOTE #10.
SITE SPECIFIC Sds = Sd1 = 1.30 MAX Cs = 0.485 W (DESIGN) S05 = 1.30
* - BASE SHEAR (INCLUDES 'p')

SEE SHEET TS2 FOR SHEET INDEX



12' x 40' STANDARD BUILDING



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120247 INC:
REVIEWED FOR
SS FLS ACS
DATE: 06/24/2022

AMS
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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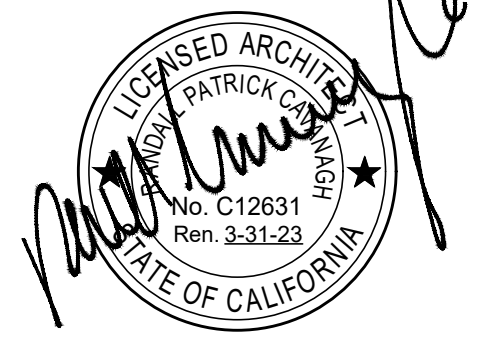
ARCHITECTURAL			STRUCTURAL			MECHANICAL			PLUMBING		
OPTIONS	SHEET NUMBER	SHEET TITLE	OPTIONS	SHEET NUMBER	SHEET TITLE	OPTIONS	SHEET NUMBER	SHEET TITLE	OPTIONS	SHEET NUMBER	SHEET TITLE
COVER SHEET	<input checked="" type="checkbox"/> TS	TITLE SHEET	STEEL MEMBER PROPERTIES	<input checked="" type="checkbox"/> S0.0	STEEL MEMBER PROPERTIES	FLOOR PLANS	<input checked="" type="checkbox"/> M1.0	TYPICAL REFLECTED CEILING PLAN	FLOOR PLAN & DETAILS	<input checked="" type="checkbox"/> P1.0	RESTROOM OPTIONS, PLUMBING PLANS, & FIXTURE SCHEDULE
INSPECTION FORM	<input checked="" type="checkbox"/> D1	FORM DSA-103	FOUNDATION PLANS & DETAILS	CONCRETE	<input checked="" type="checkbox"/> S1.0	CONCRETE FOUNDATION PLANS CONCRETE FLOORS (100 PSF MAX FLOOR LIVE LOAD)	<input type="checkbox"/> M1.2	RESTROOM REFLECTED CEILING PLAN OPTIONS	<input checked="" type="checkbox"/> P2.0	PLUMBING DETAILS & ACCESSIBLE DETAILS	
GENERAL NOTES & SPECIFICATIONS	<input checked="" type="checkbox"/> N1.0	GENERAL NOTES & SPECIFICATIONS			<input checked="" type="checkbox"/> S1.4	CONCRETE FOUNDATION DETAILS	<input checked="" type="checkbox"/> M1.4	MECHANICAL & CEILING DETAILS	<input checked="" type="checkbox"/> P3.0	PLUMBING ISOMETRIC DRAWINGS	
	<input checked="" type="checkbox"/> N1.0A	BELOW GRADE CONCRETE MIX DESIGN REQUIREMENTS			<input checked="" type="checkbox"/> S1.5	CONCRETE FOUNDATION DETAILS	<input type="checkbox"/> M1.4A	MECHANICAL & CEILING DETAILS			
	<input checked="" type="checkbox"/> N2.0	GENERAL NOTES & SPECIFICATIONS			<input checked="" type="checkbox"/> S1.6C	DOUBLE PLATE ANCHORAGE FOUNDATION DETAILS	<input checked="" type="checkbox"/> M1.5	MECHANICAL & CEILING DETAILS			
	<input checked="" type="checkbox"/> N3.0	TYPICAL SCHEDULES: DOORS, WINDOWS & FINISHES			<input checked="" type="checkbox"/> S1.7	CONCRETE FOUNDATION OPTIONAL UTILITY OPENINGS IN FOOTINGS	<input checked="" type="checkbox"/> M1.6	MECHANICAL ROOF DETAILS			
	<input checked="" type="checkbox"/> N4.0	ACCESSIBILITY STANDARDS AND DETAILS			<input type="checkbox"/> S3.0	FLOOR FRAMING PLAN & DETAILS FOR PLYWOOD FLOOR	<input type="checkbox"/> M1.6A	MECHANICAL ROOF DETAILS			
<input type="checkbox"/> N5.0	FLOOR PLAN CONFIGURATIONS	FLOOR FRAMING PLAN & DETAILS	PLYWOOD	CONCRETE w/ METAL DECK	<input type="checkbox"/> S3.1	FLOOR FRAMING PLAN & DETAILS FOR CONCRETE FLOOR w/BH-DECK OPTION (100 PSF MAX FLOOR L.L.)	MISCELLANEOUS	<input checked="" type="checkbox"/> M1.7	CEILING & MECHANICAL NOTES & SCHEDULES		
<input checked="" type="checkbox"/> EN.1	ENERGY CALCULATIONS				<input checked="" type="checkbox"/> S3.3	FLOOR FRAMING PLAN & DETAILS FOR CONCRETE FLOOR w/3WXH-DECK OPTION (100 PSF MAX FLOOR L.L.)	ELECTRICAL				
<input checked="" type="checkbox"/> EN.2	ENERGY CALCULATIONS				<input type="checkbox"/> S4.0	ROOF FRAMING PLAN & DETAILS - CROSS BRACING OPTION	OPTIONS	SHEET NUMBER	SHEET TITLE		
<input checked="" type="checkbox"/> EN.3	ENERGY CALCULATIONS				<input checked="" type="checkbox"/> S4.1	ROOF FRAMING PLAN & DETAILS - ROOF SHEATHING OPTION	<input checked="" type="checkbox"/> E1.0	ELECTRICAL PLANS & SYMBOLS LEGEND			
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<input checked="" type="checkbox"/> EN.5	ENERGY CALCULATIONS				<input checked="" type="checkbox"/> S4.3	ROOF FRAMING DETAILS - ROOF SHEATHING OPTION					
<input checked="" type="checkbox"/> EN.6	ENERGY CALCULATIONS	BUILDING FRAMING ELEVATIONS & DETAILS	WOOD STUDS	METAL STUDS	<input checked="" type="checkbox"/> S5.0	MOMENT FRAME ELEVATIONS & DETAILS					
<input checked="" type="checkbox"/> A1.0	TYPICAL FLOOR PLAN				<input checked="" type="checkbox"/> S5.1	MOMENT FRAME CONNECTION DETAILS					
<input checked="" type="checkbox"/> A1.2	RESTROOM FLOOR PLAN OPTIONS				<input checked="" type="checkbox"/> S5.4A	OPTIONAL SIDE WALL CANOPY PLAN & DETAILS					
ROOF PLAN & DETAILS	METAL STANDING SEAM				<input checked="" type="checkbox"/> A2.0	TYPICAL ROOF PLAN - METAL STANDING SEAM	<input checked="" type="checkbox"/> S8.0	WALL FRAMING ELEVATIONS & SCHEDULES - WOOD STUDS			
					<input checked="" type="checkbox"/> A2.1	TYPICAL ROOF DETAILS - METAL STANDING SEAM ROOFING	<input checked="" type="checkbox"/> S8.1	WALL FRAMING DETAILS - WOOD STUDS			
					<input type="checkbox"/> A2.2	TYPICAL ROOF PLAN - SINGLE-PLY OR BUILT-UP ROOFING	<input type="checkbox"/> S9.0	WALL FRAMING ELEVATIONS & SCHEDULES - METAL STUD OPTION			
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		<input checked="" type="checkbox"/> A4.0	INTERIOR ELEVATIONS - TYPICAL CLASSROOM	<input type="checkbox"/> S9.2	TYPICAL METAL STUD FRAMING DETAILS & PROPERTIES						
		<input checked="" type="checkbox"/> A4.1	INTERIOR ELEVATIONS - RESTROOM OPTIONS								
INTERIOR ELEVATIONS		<input type="checkbox"/> A4.2	INTERIOR ELEVATIONS - RESTROOM OPTIONS								
	EXTERIOR ELEVATIONS & ARCHITECTURAL DETAILS	DURATEMP 303 SIDING	<input type="checkbox"/> A5.0	TYPICAL EXTERIOR ELEVATIONS - DURATEMP 303 SIDING OPTION							
<input type="checkbox"/> A5.1			TYPICAL ARCHITECTURAL DETAILS - DURATEMP 303 SIDING OPTION								
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		<input checked="" type="checkbox"/> A5.3	TYPICAL ARCHITECTURAL DETAILS - STUCCO OPTION								
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		<input type="checkbox"/> A5.5	TYPICAL ARCHITECTURAL DETAILS - LAP SIDING OPTION								
SYNTHETIC STUCCO		<input type="checkbox"/> A5.6	TYPICAL EXTERIOR ELEVATIONS - SYNTHETIC STUCCO OPTION								
	<input type="checkbox"/> A5.7	TYPICAL ARCHITECTURAL DETAILS - SYNTHETIC STUCCO OPTION									
MISCELLANEOUS DETAILS	<input type="checkbox"/> A7.0	ARCHITECTURAL EXTERIOR FINISH OPTIONS DETAILS									
	<input checked="" type="checkbox"/> A7.1	MISCELLANEOUS ARCHITECTURAL DETAILS									
	<input checked="" type="checkbox"/> A7.3	TYPICAL LONGITUDINAL AND TRANSVERSE FRAME SECTIONS									
	<input type="checkbox"/> A8.0	1-HR FIRE RATED CONSTRUCTION DETAILS									

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

SITE SPECIFIC PROJECT NAME
**CORCORAN JOINT USD
KINGS LAKE EDUCATION CENTER
(1) 12'x40' BUILDING**

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC



THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS	
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△	
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DRAWN BY: ABD
SCALE: AS NOTED
DATE: 04/25/21
PROJECT NO: 1663-21

SHEET TITLE:
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Additional Information for PC designs only, not to be added to DSA-103:

	STOCKPILE	CONSTRUCTION OF PERMANENT MODULAR OR RELOCATABLE BUILDING	RELOCATION OF CERTIFIED RELOCATABLE BUILDING
INSPECTOR CLASS (minimum requirements)	RBIP or Class 1	In Plant: RBIP or Class 1 Site: Class 4 for Single Story Site: Class 2 for Two-Story	Class 4 for Single Story Class 2 for Two-Story
Selection of the Project Inspector and Testing Agency	by the Owner and approved by DSA, A/E of Record and Structural Engineer	by the School District and approved by DSA, A/E responsible for in-plant construction observation.	by the Owner and approved by DSA, A/E of Record and Structural Engineer
Cost of the Project Inspector (Title 24, Part 1, Section 4-333(b)) and Testing/Special Agency (CAC, Section 4-335(b))	by the Owner	by the School District	

HOLLO-BOLT MANUFACTURER'S INSPECTION PROCEDURES

PERIODIC SPECIAL INSPECTION REQUIREMENTS

TO VERIFY CORRECT INSTALLATION INCLUDING USE IN SEISMIC OR WIND LOADING APPLICATIONS IN ACCORDANCE WITH THE 2019 CALIFORNIA BUILDING CODE SECTIONS 1705A.1, 1705A.2, AND 1704A.3 PLEASE REFER TO THE FOLLOWING INSTRUCTIONS.

A. INSPECTION PRIOR TO INSTALLATION

- ENSURE THAT THERE ARE NO GAPS BETWEEN THE CONNECTING STEELWORK.
- ENSURE THAT THE HOLES ARE ALIGNED AND THAT THE HOLES HAVE THE CORRECT DIAMETER AND SPACING FOR THE CHOSEN HOLLO-BOLT.
- THE HOLES MUST BE STANDARD DIAMETER HOLES CONFORMING TO AISC 360 WHERE THE HOLE DIAMETER MUST BE NO GREATER THAN THE SLEEVE OUTER DIAMETER +1/16".
- BURRS IN THE HOLES MUST BE REMOVED BEFORE INSERTION OF THE HOLLO-BOLT.

B. INSPECTION DURING INSTALLATION

- ENSURE THAT THE HOLLO-BOLTS ARE INSTALLED AS PER LINDAPTER'S INSTALLATION INSTRUCTION SHEET.
- ENSURE THAT THE TORQUE WRENCH(S) HAS A CURRENT VALID CALIBRATION CERTIFICATE AND IS CALIBRATED ON REGULAR BASIS.
- IF USING AIR POWERED WRENCHES TO TIGHTEN THE HOLLO-BOLT, CHECK THAT THE WRENCH IS SET CORRECTLY TO AVOID OVERTIGHTING. THE FINAL TORQUE MUST BE CHECKED WITH A CALIBRATED TORQUE WRENCH.
- IF AFTER TIGHTENING THERE IS A GAP EVIDENT BETWEEN THE HOLLO-BOLT AND THE CONTACT SURFACE OF THE CONNECTING ELEMENT THIS MAY INDICATE INCORRECT INSTALLATION. REMOVE AND DISCARD THE HOLLO-BOLT, REALIGN THE CONNECTING STEELWORK AND INSTALL A NEW HOLLO-BOLT AS PER LINDAPTER'S INSTALLATION INSTRUCTION SHEET.
- IF AFTER TIGHTENING THE BOLT HEAD CONTINUES TO TURN THIS MAY BE AN INDICATION OF OVER TIGHTENING, OR IF USING A STAINLESS STEEL HOLLO-BOLT THIS MAY BE DUE TO GALLING*, REMOVE AND DISCARD THE HOLLO-BOLT AND INSTALL A NEW HOLLO-BOLT AS PER LINDAPTER'S INSTALLATION INSTRUCTION SHEET.

* 'GALLING' IS A TERM USED WHEN TWO SURFACES SEIZE UP AS A RESULT OF COLD WELDING AND IS COMMON WHEN TIGHTENING STAINLESS STEEL BOLTS.

C. INSPECTION AFTER INSTALLATION

- ENSURE THAT THERE ARE NO GAPS BETWEEN THE CONNECTING STEELWORK.
- ENSURE THAT THERE ARE NO GAPS BETWEEN THE HOLLO-BOLT AND THE CONTACT SURFACE OF THE CONNECTING ELEMENT.
- CHECK THE TIGHTENING TORQUE OF BETWEEN 5-10% OF THE INSTALLED HOLLO-BOLTS CHOSEN AT RANDOM USING A CALIBRATED TORQUE WRENCH.



FOOTNOTES

- WAIVER OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.1 AND DSA IR 17-13)
 - CONTINUOUS BATCH PLANT INSPECTION MAY BE WAIVED IF THE CONCRETE PLANT COMPLIES FULLY WITH ASTM C94, SECTION 9 AND 10, AND HAS A CURRENT CERTIFICATION FROM THE 'NATIONAL READY MIXED CONCRETE ASSOCIATION' OR ANOTHER AGENCY ACCEPTABLE TO THE ENFORCEMENT AGENCY. THE CERTIFICATION SHALL INDICATE THAT THE PLANT HAS AUTOMATIC BATCHING AND RECORDING CAPABILITIES.
 - IF THE BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS a) THRU c) SHALL BE MET:
 - AN APPROVED AGENCY OR CERTIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT START OF WORK DAY TO VERIFY MATERIALS AND PROPORTIONS CONFORM TO THE APPROVED MIX DESIGN.
 - THE LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
 - BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD PRIOR TO CONCRETE PLACEMENT.
- ELIMINATION OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.2):
 - BATCH PLANT INSPECTION IS NOT REQUIRED FOR ANY OF THE FOLLOWING CONDITIONS:
 - SITE FLATWORK.
 - UNENCLOSED SITE STRUCTURES, INCLUDING BUT NOT LIMITED TO LUNCH OR CAR SHELTERS, BLEACHERS, SOLAR STRUCTURES, FLAG OR LIGHT POLES, OR RETAINING WALLS.
 - CONTROLLED LOW-STRENGTH MATERIAL BACKFILL, OR
 - SINGLE STORY RELOCATABLE BUILDINGS LESS THAN 2,160 SQUARE FEET.
- PER CBC 1910A.2, TESTING MAY BE WAIVED FOR ONE-STORY BUILDINGS IF A CERTIFIED MILL TEST REPORT IS PROVIDED.
- REQUIRED ONLY WHERE DETAILS SPECIFY THE USE OF THESE ATTACHMENTS.
- INSPECTION OF VENEER DETAILED ON SHT. A7.0 MAY BE WAIVED BY DSA ON A SITE SPECIFIC BASIS.
- THE APPENDIX TO DSA-103 SHALL BE COMPLETED BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
- ULTRASONIC TESTING PER DSA IR-PC2 SECTION 10.1 SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS WHEN THE COLUMNS PER SCHEDULE ON SHEET S5.1 HAVE A THICKNESS OF 3/4" OR GREATER. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS. NONDESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION WELDS AT GRAVITY CONNECTIONS SHALL COMPLY WITH AISC 360, CHAPTER N, PER 2019 CBC 1705A.2.1.
- EXAMPLE DSA-103 FORMS WILL BE USED AS GUIDE TO DEVELOP A SITE-SPECIFIC DSA-103 FORM FOR THE SITE-SPECIFIC PROJECT. EXAMPLE FORMS ON THE PC DRAWINGS WILL BE CROSSED OUT WHEN SITE-SPECIFIC DSA-103 FORMS ARE PROVIDED DURING OTC REVIEW.
- QUALIFIED REPRESENTATIVE OF LABORATORY OF RECORD OR APPROVED SPECIAL INSPECTOR SHALL VERIFY ALL STEEL IDENTIFICATION PER 2019 CBC 2202A.1 AND DSA IR 17-3 STRUCTURAL WELDING INSPECTION.

TEST OR INSPECTION

(as listed on DSA-103)⁹

MATERIAL TYPE

A	B	CONSTRUCTION (Diaphragm - Foundation)		RELOCATION OF CERTIFIED BUILDING	
		C	D	E	F
WOOD-FLOOR - CONCRETE FLOOR	CONCRETE FLOOR	WOOD-FLOOR - CONCRETE FOUNDATION	CONCRETE FLOOR - CONCRETE FOUNDATION	CONCRETE FOUNDATION	CONCRETE FOUNDATION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120247 INC:
REVIEWED FOR
SS FLS ACS
DATE: 06/24/2022



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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING



SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119274 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 02/02/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
(A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED)

MANUFACTURER PROFESSIONAL OF RECORD ON PC



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REVISIONS

DRAWN BY: AA
SCALE: AS NOTED
DATE: MMDDYY
PROJECT NO: XXXX-20

SHEET TITLE:
FORM DSA-103

SHEET NUMBER:

D1

SOILS

1. GENERAL:

- Verify that:
 - Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.
 - Foundation excavations extended to proper depth and have reached proper material.
 - Materials below footings are adequate to achieve the design bearing capacity.

2. COMPACTED FILLS:

- Perform classification and testing of fill materials.
- Verify use of proper materials, densities, and inspect lift thicknesses, placement and compaction during placement of fill.
- Compaction testing.

CONCRETE

7. CAST IN PLACE CONCRETE - Lightweight over Metal Deck:

- Verify use of required design mix.
- Identify, sample, and test reinforcing steel⁽³⁾
- During concrete placement, fabricate specimens for strength tests, performing slump, and air content tests, and determine the temperature of the concrete.
- Test concrete (f_c - compression).
- Batch plant inspection⁽¹⁾⁽²⁾ - design complies with 1705A.3.3
- Welding of reinforcing steel.

7. CAST IN PLACE CONCRETE - Foundation:

- Verify use of required design mix.
- Identify, sample, and test reinforcing steel⁽³⁾
- During concrete placement, fabricate specimens for strength tests, performing slump, and air content tests, and determine the temperature of the concrete.
- Test concrete (f_c - compression).
- Batch plant inspection⁽¹⁾⁽²⁾ - design complies with 1705A.3.3
- Welding of reinforcing steel.

11. POST-INSTALLED ANCHORS⁽⁴⁾:

- Inspect installation of post-installed anchors
- Test post-installed anchors

MASONRY

14. VENEER OR GLASS BLOCK⁽⁵⁾:

- Verify proportions of site-prepared mortar and grout and/or verify certification of premixed mortar.
- Inspect placement of units and construction of mortar joints.
- Inspect placement of reinforcement, connectors, and anchors.
- Inspect type, size, and location of anchors and all other items to be embedded in masonry including details of anchorage of masonry to structural members, frames, and other construction.
- Verify preparation, construction, and protection of masonry during cold weather (temperature below 40° F) or hot weather (above 90°).
- Test veneer bond strength.

STEEL, ALUMINUM

17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES:

- Verify identification of all materials and:
 - Mill certificates indicate material properties that comply with requirements.
 - Material sizes, types and grades comply with requirements.
- Test unidentified materials
- Examine seam welds of HSS shapes
- Verify and document steel fabrication per DSA approved construction documents.

19. WELDING:

- Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.
- Verify weld filler material manufacturer's certificate of compliance.
- Verify WPS, welder qualifications and equipment.

19.1 SHOP WELDING:

- Inspect groove, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds
- Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds
- Inspect welding of stairs and railing systems
- Verification of reinforcing steel weldability other than ASTM A706.
- Inspect welding of reinforcing steel.

19.2 FIELD WELDING:

- Inspect groove, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds (See foundation anchorage - S1.6 sheets)
- Inspect single-pass fillet welds ≤ 5/16" (See foundation anchorage - S1.6 sheets)
- Inspect end-welded studs (ASTM A-108) installation (including bend test)
- Inspect floor and roof deck welds
- Inspect welding of structural cold-formed steel
- Inspect welding of stairs and railing systems
- Verification of reinforcing steel weldability
- Inspect welding of reinforcing steel.

20. NONDESTRUCTIVE TESTING⁽⁷⁾:

- Ultrasonic (Test per sheet S5.1)
- Magnetic Particle (Test per sheet S5.1)

22. SPRAY APPLIED FIRE-PROOFING:

- Examine structural steel surface conditions, inspect application, take samples, measure thickness, and verify compliance of all aspects of application with DSA approved documents.
- Test bond strength.
- Test density.

23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL:

- Anchor Bolts and Anchor Rods
- Threaded rod not used for foundation anchorage.

OTHER

26. LOAD TEST FOR IDENTIFIED PRODUCT(S):

- Column fire rating where specified per 20/AB.0 and tested per 1705A.15

BELOW GRADE CONCRETE ELEMENT	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (F') (PSI)	CEMENTITIOUS MATERIALS (CEMENT TYPE PER ASTM C150)	TARGET AIR CONTENT (%)		
				MAX AGGREGATE SIZE (IN)	FOUNDATION VENTS & ACCESS WELLS	FOUNDATIONS
FOUNDATIONS ¹¹	0.45	4500	V	1" ± 1/4"	N/A	6
FOUNDATION VENTS & ACCESS WELLS	0.45	4500	V	3/8"	N/A	7.5
				1/2"	N/A	7
				1" ± 1/4"	N/A	6

¹¹ PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.3. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4. CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 19104-L. SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.

¹² FOUNDATIONS CONSERVATIVELY DESIGNED FOR A MINIMUM 28-DAY CONCRETE STRENGTH OF 3,500 PSI.

BELOW GRADE CONCRETE ELEMENT	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (F') (PSI)	CEMENTITIOUS MATERIALS (CEMENT TYPE PER ASTM C150)	MAX AGGREGATE SIZE (IN)	TARGET AIR CONTENT (%)	MAXIMUM WATER-SOLUBLE CHLORIDE (C) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT
FOUNDATIONS ¹³				1" ± 1/4"		
FOUNDATION VENTS & ACCESS WELLS				3/8"		
				1/2"		
				1" ± 1/4"		

¹³ PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.3. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4. CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 19104-L. SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.

¹⁴ FOUNDATIONS HAVE BEEN DESIGNED FOR THE WORST CASE MINIMUM 28-DAY CONCRETE STRENGTH OF 3,500 PSI.

EXPOSURE CLASS ¹⁴	CONDITION	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (F') (PSI)		AIR CONTENT	
			FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	MAX AGGREGATE SIZE (IN) ¹⁵	TARGET AIR CONTENT (%)
F0	CONCRETE NOT EXPOSED TO FREEZING-AND-THAWING CYCLES	0.55	3500	3000	N/A	
F1	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH LIMITED EXPOSURE TO WATER	0.55	3500	3500	3/8"	6
					1/2"	5.5
					1"	5
F2	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER	0.45	4500	4500	3/8"	7.5
					1/2"	7
					3/4"	6
F3	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER AND EXPOSURE TO DEICING CHEMICALS	0.40	5000	5000	1"	6
					1 1/2"	5.5

¹⁴ IF EXPOSURE CLASS IS UNCERTAIN, F2 MAY BE ASSUMED.

¹⁵ SEE CONCRETE NOTES ON SHEET N1.0 FOR MAX AGGREGATE SIZES.

EXPOSURE CLASS ¹⁶	CONDITION		MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (F') (PSI)		CEMENTITIOUS MATERIALS (CEMENT TYPE PER ASTM C150)
	WATER-SOLUBLE SULFATE (SO ₄ ²⁻) IN SOIL, PERCENT BY MASS ¹⁷	DISSOLVED SULFATE (SO ₄ ²⁻) IN WATER, PPM ¹⁸		FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	
S0	SO ₄ ²⁻ < 0.10	SO ₄ ²⁻ < 150	0.55	3500	3000	I OR II
S1	0.10 ≤ SO ₄ ²⁻ < 0.20	150 ≤ SO ₄ ²⁻ < 1500 OR SEAWATER	0.50	4000	4000	II
S2	0.20 ≤ SO ₄ ²⁻ ≤ 2.00	1500 ≤ SO ₄ ²⁻ ≤ 10,000	0.45	4500	4500	V
S3	SO ₄ ²⁻ > 2.00	SO ₄ ²⁻ > 10,000	0.45	4500	4500	V PLUS FLYASH OR SLAG CEMENT ¹⁹

¹⁶ IF EXPOSURE CLASS IS UNKNOWN, S2 MAY BE ASSUMED.

¹⁷ PERCENT SULFATE BY MASS IN SOIL SHALL BE DETERMINED BY ASTM C1580.

¹⁸ CONCENTRATION OF DISSOLVED SULFATES IN WATER, IN PPM, SHALL BE DETERMINED BY ASTM D516 OR ASTM D4130.

¹⁹ PER ACI 318-14, TABLE 19.3.2.1, FOOTNOTE 6, THE AMOUNT OF THE SPECIFIC SOURCE OF THE POZZOLAN OR SLAG CEMENT TO BE USED SHALL BE AT LEAST THE AMOUNT THAT HAS BEEN DETERMINED BY SERVICE RECORD TO IMPROVE SULFATE RESISTANCE WHEN USED IN CONCRETE CONTAINING TYPE V CEMENT. ALTERNATIVELY, THE AMOUNT OF THE SPECIFIC SOURCE OF THE POZZOLAN OR SLAG CEMENT TO BE USED SHALL BE AT LEAST THE AMOUNT TESTED IN ACCORDANCE WITH ASTM C1012 AND MEETING THE CRITERIA IN ACI 318-14, SECTION 26.4.2.2(c). SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.

EXPOSURE CLASS	CONDITION	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (F') (PSI)		ADDITIONAL REQUIREMENTS
			FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	
W0	CONCRETE DRY IN SERVICE OR CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS NOT REQUIRED	0.55	3500	3000	NONE
W1 ²⁰	CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS REQUIRED	0.50	4000	4000	NONE

²⁰ EXPOSURE CLASS W1 IS ONLY REQUIRED IF CONCRETE IS BELOW THE GROUNDWATER TABLE.

EXPOSURE CLASS	CONDITION	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (F') (PSI)		MAXIMUM WATER-SOLUBLE CHLORIDE (C) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT
			FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	
C1	CONCRETE EXPOSED TO MOISTURE BUT NOT TO AN EXTERNAL SOURCE OF CHLORIDES	0.55	3500	3000	0.30
C2	CONCRETE EXPOSED TO MOISTURE AND AN EXTERNAL SOURCE OF CHLORIDES FROM DEICING CHEMICALS, SALT, BRACKISH WATER, SEAWATER, OR SPRAY FROM THESE SOURCES	0.40	5000	5000	0.15

SHEET NOTES:

1. THE DEFAULT CONCRETE MIX DESIGN REQUIREMENTS MAY BE SELECTED AND USED TO DETERMINE THE CONCRETE MIX REQUIREMENTS FOR ANY SITE PER DSA IR PC-2 SECTION 4.5.1 OR PC-6 SECTION 4.4.1.
2. THE DEFAULT CONCRETE MIX DESIGN REQUIREMENTS MAY BE SELECTED REGARDLESS OF WHETHER A SITE SPECIFIC GEOTECHNICAL REPORT EXISTS FOR THE SITE.
3. IF THE SITE CONDITIONS FOR THE SOIL ARE KNOWN AS REPORTED BY A GEOTECHNICAL OR OTHER APPROVED SOIL CONDITIONS REPORT, THE OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS MAY BE UTILIZED.
4. IF THE OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS ARE UTILIZED, THE REPORT MUST BE REFERENCED ON THE COVER SHEET OF THIS DRAWING PACKAGE.

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DIV. OF THE STATE ARCHITECT
APP: 02-120247 INC:
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SS FLS ACS
DATE: 06/24/2022

AMS
American Modular Systems
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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119274 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 02/02/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
(A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED)

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENCED ARCHITECT
PATRICK CANNON
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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REVISIONS

△
△
△
△

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YYYY
PROJECT NO: XXXX-20

SHEET TITLE:
BELOW GRADE CONCRETE MIX DESIGN REQUIREMENTS

SHEET NUMBER:

N1.0A

DOORS							FRAMES			REMARKS
DOOR NO.	DOOR TYPE	DOOR SIZE	QUANTITY	MATERIAL	FINISH	HARDWARE SET NO.	FRAME TYPE	MATERIAL	FINISH	
1	D1	3'-6" x 7'-0"	1	HM	PT	A	(F1)	S	PT	HARDWARE LOCKABLE FROM THE INSIDE, SEE DOOR NOTE #3
2	D2	3'-0" x 7'-0"	1	SC	CLR	E	(F2)	S	PT	
3	D2	3'-0" x 7'-0"	1	SC	CLR	D	(F2)	S	PT	

DOOR ABBREVIATIONS				DOOR NOTES			
HM	- HOLLOW METAL	SC	- SOLID CORE WOOD	1.	DOORS SHALL COMPLY WITH C.B.C. SECTION 1010.		
AL	- ALUMINUM	HC	- HOLLOW CORE WOOD	2.	CLASSROOMS > 981 S.F WILL REQUIRE PANIC HARDWARE THAT COMPLIES WITH C.B.C. SECTION 1010.1.10.		
S	- STEEL	PT	- PAINTED	3.	PER C.B.C. 1010.1.11; PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.		
SST	- STAINLESS STEEL	CA	- CLEAR ANODIZED				
STL	- STEEL FRAME, 16ga. FULLY WELDED	BR	- BRONZE ANODIZED				
WWF	- WINDOW WALL FRAME	CLR	- CLEAR FINISH				

WINDOW TYPE	QTY.	FUNCTION	W' WIDTH	H' HEIGHT	FINISH	GLASS TYPE	U FACTOR	SHGC	VT MIN	MIN STC RATING	REMARKS
A	1	FIXED	6'-0"	4'-0"	CLEAR ANODIZED	SOLAR GREY ⁵	0.780	0.430	0.37	27	OPERABLE

1. EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS, OR LAMINATED AS 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.

2. WINDOWS THAT MEETS ALL OF THE FOLLOWING CONDITIONS SPECIFIED IN SECTION 2406.4.3, SHALL BE CONSIDERED A HAZARDOUS LOCATION:
 A. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET.
 B. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE FINISH FLOOR.
 C. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36" ABOVE FINISH FLOOR.
 D. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36", MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING.

3. WINDOWS THAT ARE CONSIDERED A HAZARDOUS LOCATION SHALL CONTAIN FULLY TEMPERED SAFETY GLAZING & MEET THE FOLLOWING REQUIREMENTS:
 A. PASS THE IMPACT TEST REQUIREMENTS IN ACCORDANCE WITH "CPSG 16 CFR PART 1201" PER SECTION 2406.2, WITH A TEST CRITERIA OF CATEGORY II, UNLESS OTHERWISE INDICATED IN C.B.C. TABLE 2406.2(1).
 B. IDENTIFICATION OF SAFETY GLAZING PER C.B.C. 2406.3

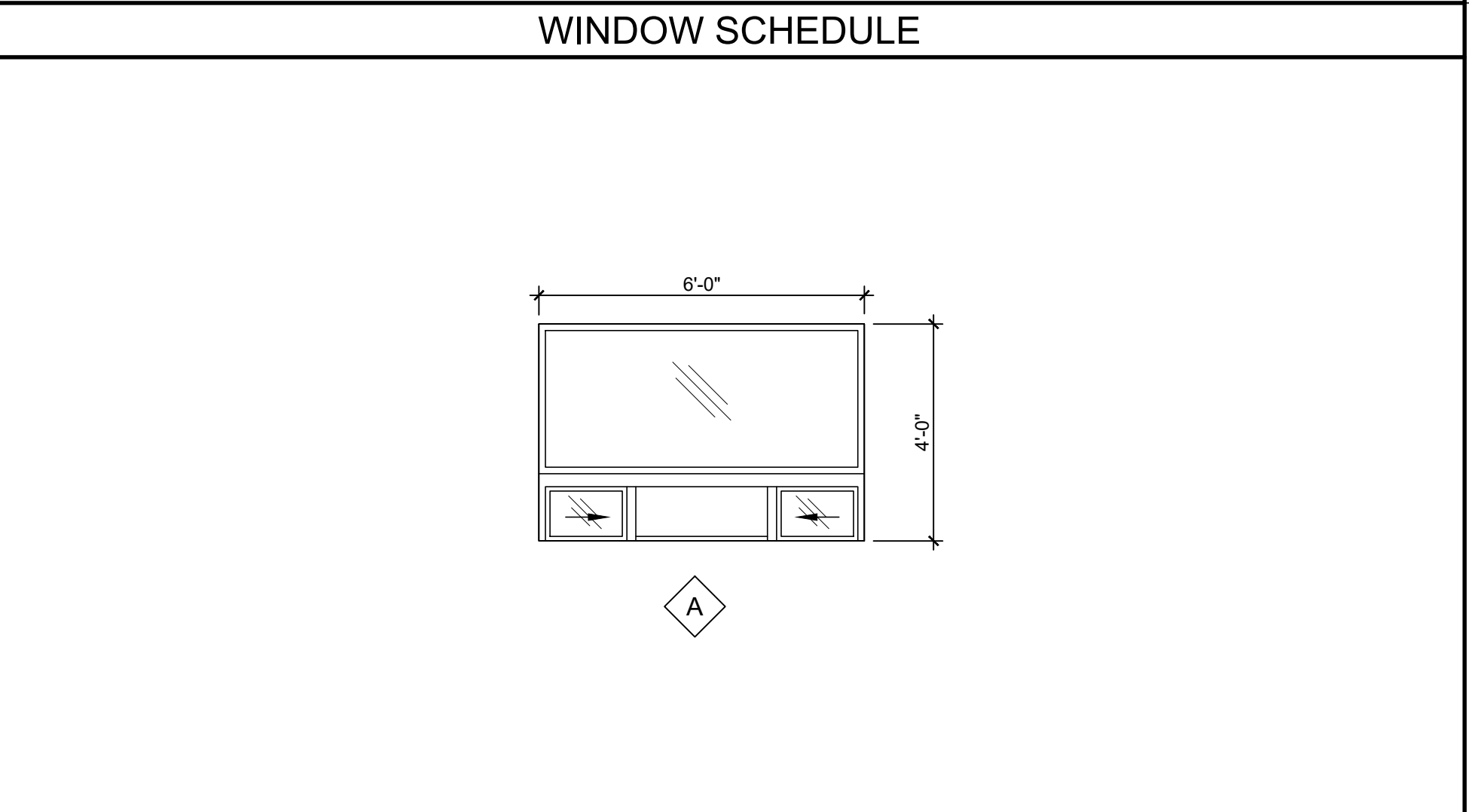
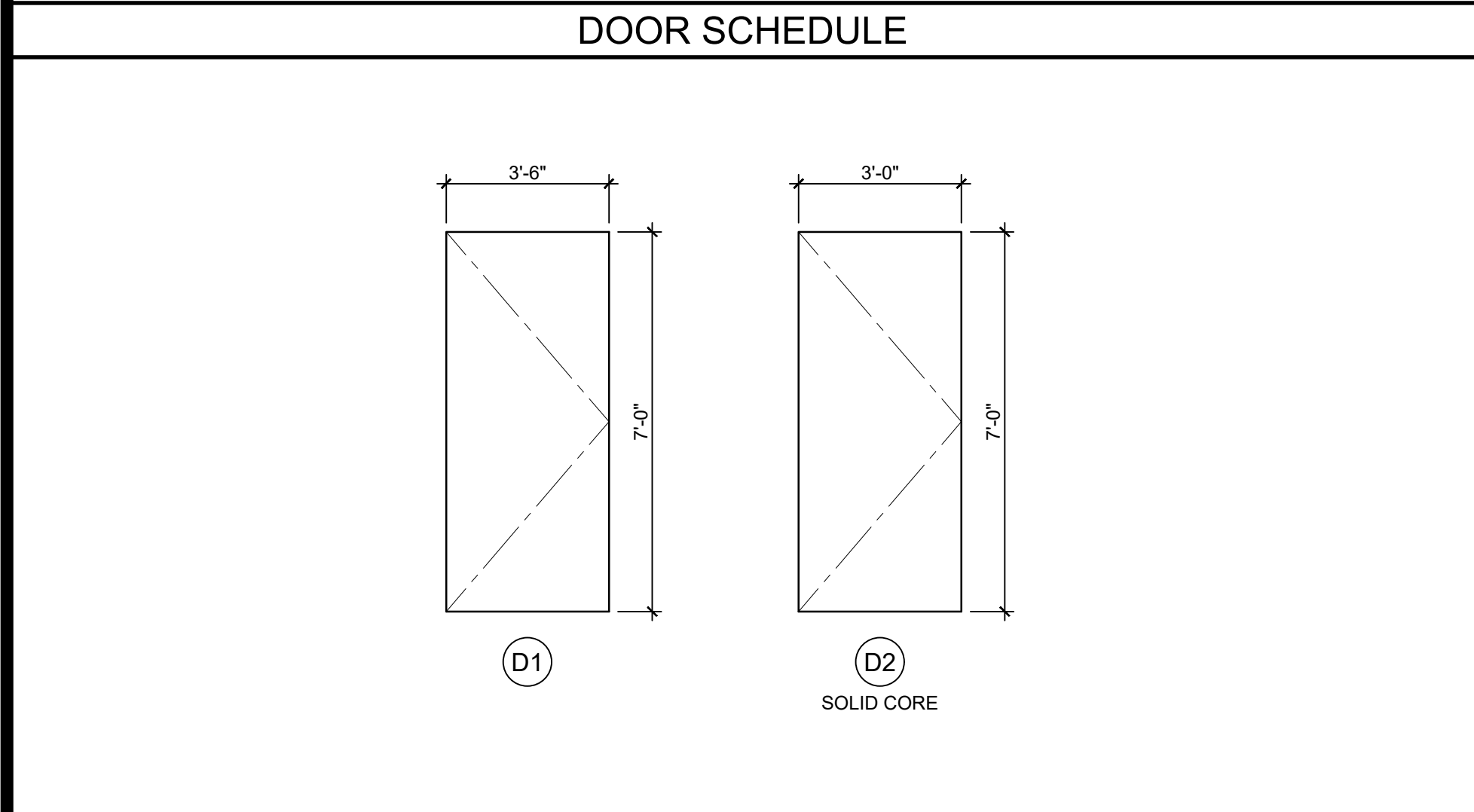
4. ALL WINDOWS SHALL HAVE METAL FRAMES AND BE MANUFACTURED BY OTHERS.

5. WINDOWS ARE NOT NFRC RATED (UP TO 1,000 SF. OF GLAZING IF ALLOWED TO USE DEFAULT VALUES FROM TABLE 110.6-A & 110.6-B).

6. THE MINIMUM STANDARD GLASS TYPE FOR ALL WINDOWS SHALL SOLAR GREY GLAZING. UPGRADED GLAZING (LOW E, LOW E2, ETC.) MAY BE USED PER SITE SPECIFIC REQUIREMENTS.

7. ALL NFRC RATED FENESTRATION AS NOTED ON THE WINDOW SCHEDULE REQUIRE TEMPORARY NFRC LABELS. TEMPORARY NFRC LABELS SHALL STAY ON FENESTRATION PRODUCTS UNTIL INSPECTOR HAS VERIFIED THAT THE INSTALLED U-FACTOR, SHGC, AND VT MATCH THE WINDOW SCHEDULE.

ROOM NUMBER	ROOM NAME	FLOOR	FINISHES						REMARKS	
			BASE	FRONT	REAR	RIGHT	LEFT	CEILING		
101	CONCESSIONS	B	E	J	J	J	J	K	9'-0"	
102	JANITORS	B	E	J	J	J	J	K	9'-0"	
103	UNISEX R.R.	B	E	J	J	J	J	K	9'-0"	



FINISH INDICATOR OPTIONS

A - CARPET; PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600.

B - VINYL SHEET FLOORING; 0.6 MIN. C.D.F. PER ASTM D 2047

C - VCT; ARMSTRONG, STANDARD, OR EXCELON.

D - TOP SET BASE; 4"

E - TOP SET BASE; 6"

F - WALL FINISH; 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING

G - 1/2" W.R. GYP BOARD; TAPE, PAINTED FINISH

H - 1/2" GYP BOARD; TAPE, PAINTED FINISH

J - 3/32" F.R.P.; OVER 1/2" W.R. GYP BOARD

K - ACOUSTICAL LAY-IN GRID CEILING PANELS; 2'x2' OR 2'x4'

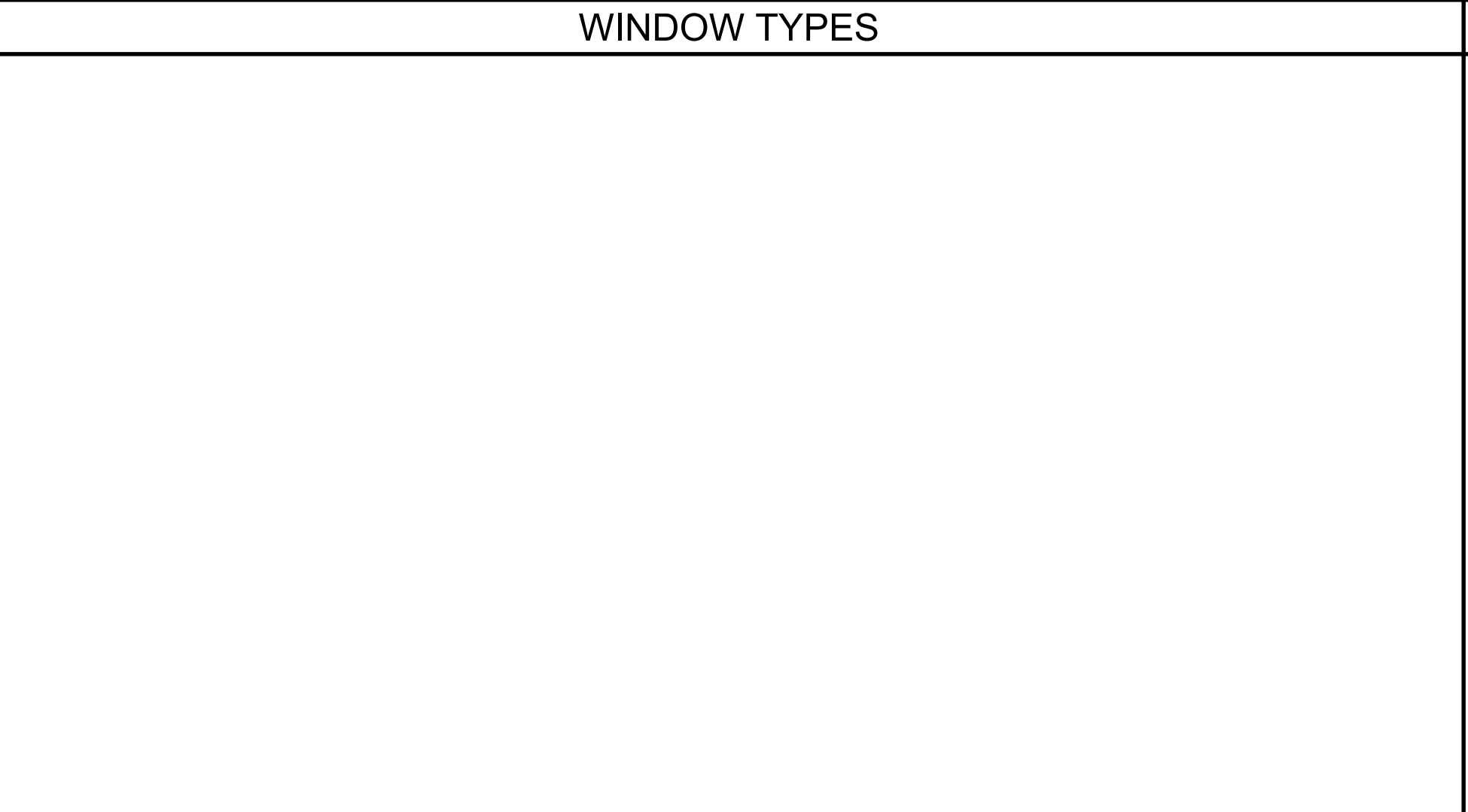
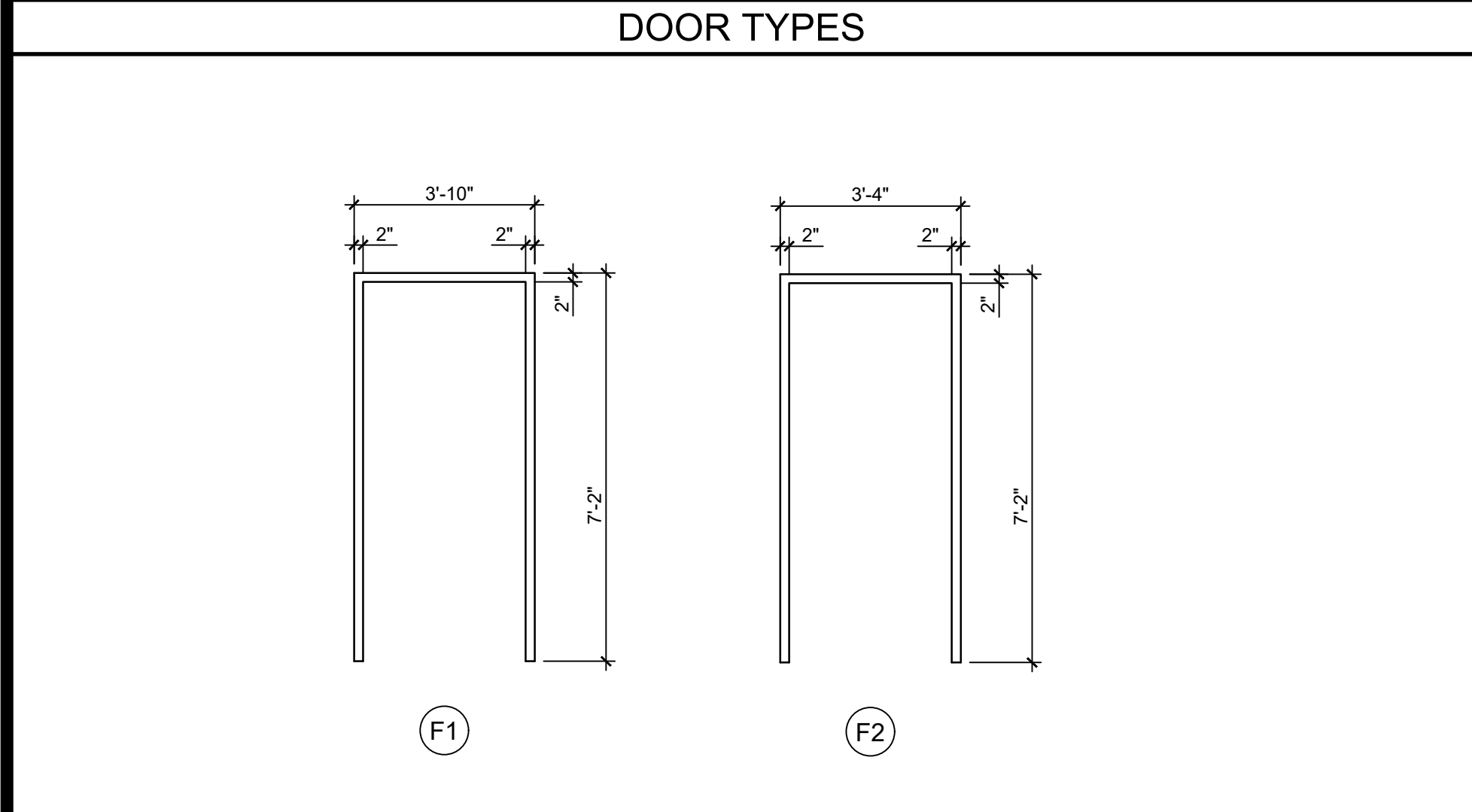
L - 1/2" VINYL TACKBOARD; CLASS 1, OVER 5/8" TYPE "X" GYP BOARD BACKING

M - 5/8" TYPE "X" GYP BOARD; TAPE, TEXTURE, PAINTED FINISH

N - CERAMIC TILE - (FULL HEIGHT AT WALLS)

O - EXPOSED CONCRETE WITH CONCRETE SEALER

P - CLOUD CEILING PANELS



ROOM FINISHES SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	FRONT	REAR	RIGHT	LEFT	CEILING	CEILING HEIGHT	REMARKS
101	CONCESSIONS	B	E	J	J	J	J	K	9'-0"	
102	JANITORS	B	E	J	J	J	J	K	9'-0"	
103	UNISEX R.R.	B	E	J	J	J	J	K	9'-0"	

DOOR FRAME TYPES

A	EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND95PD
B	EXTERIOR DOOR PANIC BAR w/PULL ON EXTERIOR VON DUPRIN AX22NL (REQUIRED WHEN OCCUPANT LOAD IS 50 OR MORE)
C	INTERIOR PASSAGE COPPER CREEK 6220-PASSAGE w/ADA LEVER
D	INTERIOR RESTROOM COPPER CREEK 6231-RESTROOM w/ADA LEVER
E	INTERIOR STOREROOM COPPER CREEK 6250-STOREROOM w/ADA LEVER
F	INTERIOR ENTRY/OFFICE COPPER CREEK 6241-ENTRY/OFFICE w/ADA LEVER
G	INTERIOR CLASSROOM COPPER CREEK 6260-CLASSROOM w/ADA LEVER

DOOR HARDWARE NOTES

- OPERABLE PARTS OF DOOR HARDWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
- HANDLES, PULLS, LATCHES, LOCKS AND OTHERS OPERABLE PARTS ON DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 lbs. MAX. (11B-404.2.7, 11B-309.4)
- ADDITIONAL DOORS MAY BE REQUIRED BASED ON BUILDING LAYOUT.

EXTERIOR DOOR HARDWARE

- HINGES: HAGER 4-1/2x4-1/2 BUTTS, BB1279 US26D, 1-1/2 PAIR PER DOOR, WITH SET SCREW IN BARREL AND BALL BEARING DESIGN.
- CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL. (5 LBS. MAX. PRESSURE)
- WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007 OR EQUAL, AT DOOR JAMBS AND HEAD.
- THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.
- LOCKDOWN: INTERIOR TEACHERS' MANUAL LOCK FOR CAMPUS LOCK DOWN CRITERIA - REQUIRED FOR STATE-FUNDED SCHOOLS, PER EDUCATION CODE SECTION 17075.50 (AND ALSO CBC 1010.1.11); PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.

DOOR HARDWARE SCHEDULE

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DIV. OF THE STATE ARCHITECT
APP: 02-120247 INC:
REVIEWED FOR
SS FLS ACS
DATE: 06/24/2022

AMS
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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

SITE SPECIFIC PROJECT NAME
**CORCORAN JOINT USD
KINGS LAKE EDUCATION CENTER
(1) 12'x40' BUILDING**

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

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REVISIONS

DRAWN BY:	ABD
SCALE:	AS NOTED
DATE:	04/25/21
PROJECT NO:	1663-21
SHEET TITLE:	TYPICAL SCHEDULES: DOORS, WINDOWS, & FINISHES
SHEET NUMBER:	N3.0

N3.0

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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING



SITE SPECIFIC PROJECT NAME

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APP: 02-119274 PC
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DATE: 02/02/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
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MANUFACTURER PROFESSIONAL OF RECORD OR PC



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REVISIONS

DRAWN BY: AA
SCALE: AS NOTED
DATE: MMDDYY
PROJECT NO: XXXX-20
SHEET TITLE:

ENERGY CALCULATIONS

SHEET NUMBER:

EN.3

System	Description	Material	Area	Volume	Weight
...

System	Description	Material	Area	Volume	Weight
...

Project Name: ...
Project Address: ...
Input File Name: ...
DOCUMENTATION AUTHORITY
I hereby certify that the information provided in the following sections of this document is true and correct to the best of my knowledge and belief, and that I am a duly licensed professional engineer in the State of California.
RESPONSIBLE PERSON'S
I hereby certify that the information provided in the following sections of this document is true and correct to the best of my knowledge and belief, and that I am a duly licensed professional engineer in the State of California.
Responsible Engineer (Design)
Responsible Mechanical (Design)
Responsible Electrical (Design)
Responsible Lighting (Design)
Responsible Energy (Design)

System	Description	Material	Area	Volume	Weight
...

System	Description	Material	Area	Volume	Weight
...

System	Description	Material	Area	Volume	Weight
...

System	Description	Material	Area	Volume	Weight
...

System	Description	Material	Area	Volume	Weight
...

System	Description	Material	Area	Volume	Weight
...

System	Description	Material	Area	Volume	Weight
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System	Description	Material	Area	Volume	Weight
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System	Description	Material	Area	Volume	Weight
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System	Description	Material	Area	Volume	Weight
...

System	Description	Material	Area	Volume	Weight
...

System	Description	Material	Area	Volume	Weight
...

System	Description	Material	Area	Volume	Weight
...

Table with 2 columns: Item, Description. Contains energy calculation data for various lighting fixtures and systems.

Table with 2 columns: Item, Description. Contains energy calculation data for various lighting fixtures and systems.

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Table with 2 columns: Item, Description. Contains energy calculation data for various lighting fixtures and systems.

INDOOR LIGHTING ENERGY CALCULATION SHEET. Includes project details, fixture schedule table, and compliance information for California Energy Commission.

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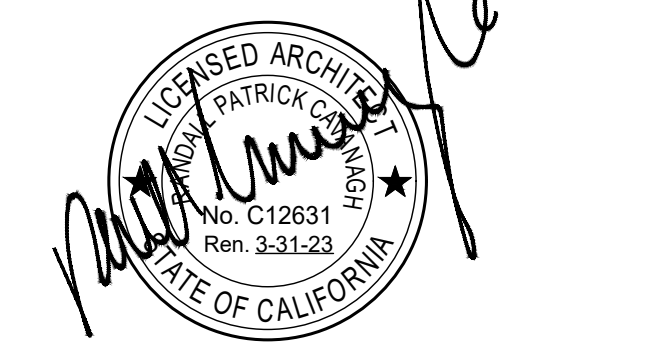
PRE-CHECKED SET NAME 12' x 40' STANDARD MODULAR BUILDING



SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-119274 PC REVIEWED FOR SS FLS ACS CG DATE: 02/02/2022

2019 CBC PRE-CHECK (PC) DOCUMENT A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED MANUFACTURER PROFESSIONAL OF RECORD ON PC



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REVISIONS section with columns for Date, Description, and Author. Below it, project information: DRAWN BY: AA, SCALE: AS NOTED, DATE: MM/DD/YYYY, PROJECT NO: XXXX-20, SHEET TITLE: ENERGY CALCULATIONS, SHEET NUMBER:

EN.4

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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING



SITE SPECIFIC PROJECT NAME

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2019 CBC PRE-CHECK (PC) DOCUMENT
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REVISIONS

DRAWN BY: AA
SCALE: AS NOTED
DATE: MMDDYY
PROJECT NO: XXXX-20
SHEET TITLE:
ENERGY CALCULATIONS
SHEET NUMBER:

EN.5

Lighting System: Ambient Lighting System Task Lighting System

Lighting Level: 100 lux 150 lux 200 lux

Lighting Control: On/Off Dimming

Lighting Fixture: Recessed Surface Mount

Lighting Schedule: On Off

Lighting System: Ambient Lighting System Task Lighting System

Lighting Level: 100 lux 150 lux 200 lux

Lighting Control: On/Off Dimming

Lighting Fixture: Recessed Surface Mount

Lighting Schedule: On Off

Lighting System: Ambient Lighting System Task Lighting System

Lighting Level: 100 lux 150 lux 200 lux

Lighting Control: On/Off Dimming

Lighting Fixture: Recessed Surface Mount

Lighting Schedule: On Off

Lighting System: Ambient Lighting System Task Lighting System

Lighting Level: 100 lux 150 lux 200 lux

Lighting Control: On/Off Dimming

Lighting Fixture: Recessed Surface Mount

Lighting Schedule: On Off

Registration Number	Registration Date/Item	Registration Provider: Energy Code-Air

Registration Number	Registration Date/Item	Registration Provider: Energy Code-Air

Registration Number	Registration Date/Item	Registration Provider: Energy Code-Air

Registration Number	Registration Date/Item	Registration Provider: Energy Code-Air

Lighting System: Ambient Lighting System Task Lighting System

Lighting Level: 100 lux 150 lux 200 lux

Lighting Control: On/Off Dimming

Lighting Fixture: Recessed Surface Mount

Lighting Schedule: On Off

Lighting System: Ambient Lighting System Task Lighting System

Lighting Level: 100 lux 150 lux 200 lux

Lighting Control: On/Off Dimming

Lighting Fixture: Recessed Surface Mount

Lighting Schedule: On Off

Lighting System: Ambient Lighting System Task Lighting System

Lighting Level: 100 lux 150 lux 200 lux

Lighting Control: On/Off Dimming

Lighting Fixture: Recessed Surface Mount

Lighting Schedule: On Off

Lighting System: Ambient Lighting System Task Lighting System

Lighting Level: 100 lux 150 lux 200 lux

Lighting Control: On/Off Dimming

Lighting Fixture: Recessed Surface Mount

Lighting Schedule: On Off

Registration Number	Registration Date/Item	Registration Provider: Energy Code-Air

Registration Number	Registration Date/Item	Registration Provider: Energy Code-Air

Registration Number	Registration Date/Item	Registration Provider: Energy Code-Air

Registration Number	Registration Date/Item	Registration Provider: Energy Code-Air

Lighting System: Ambient Lighting System Task Lighting System

Lighting Level: 100 lux 150 lux 200 lux

Lighting Control: On/Off Dimming

Lighting Fixture: Recessed Surface Mount

Lighting Schedule: On Off

Lighting System: Ambient Lighting System Task Lighting System

Lighting Level: 100 lux 150 lux 200 lux

Lighting Control: On/Off Dimming

Lighting Fixture: Recessed Surface Mount

Lighting Schedule: On Off

Lighting System: Ambient Lighting System Task Lighting System

Lighting Level: 100 lux 150 lux 200 lux

Lighting Control: On/Off Dimming

Lighting Fixture: Recessed Surface Mount

Lighting Schedule: On Off

Lighting System: Ambient Lighting System Task Lighting System

Lighting Level: 100 lux 150 lux 200 lux

Lighting Control: On/Off Dimming

Lighting Fixture: Recessed Surface Mount

Lighting Schedule: On Off

Registration Number	Registration Date/Item	Registration Provider: Energy Code-Air

Registration Number	Registration Date/Item	Registration Provider: Energy Code-Air

Registration Number	Registration Date/Item	Registration Provider: Energy Code-Air

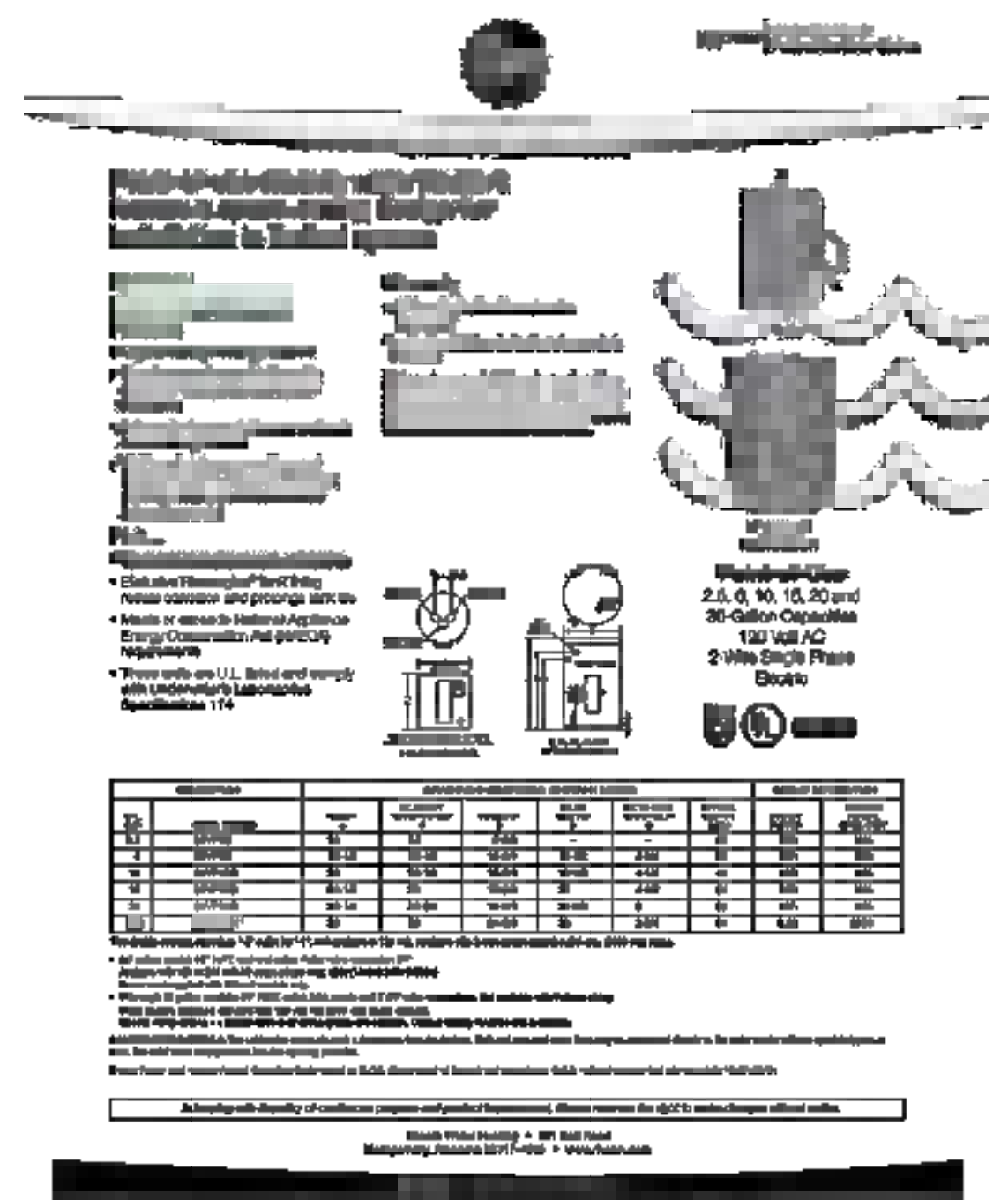
Registration Number	Registration Date/Item	Registration Provider: Energy Code-Air

Item	Description	Quantity	Unit	Material
1
2
3
4
5
6
7
8
9
10

Item	Description	Quantity	Unit	Material
11
12
13
14
15
16
17
18
19
20

Item	Description	Quantity	Unit	Material
21
22
23
24
25
26
27
28
29
30

Item	Description	Quantity	Unit	Material
31
32
33
34
35
36
37
38
39
40



Component	R-value	U-value	h, ft ² , #/ft ²	U-value
Interior Components:				
1. 3/8" Acoustic Tile	0.95	0.30*	NO	NO
Inside surface air film	0.17	N/A	N/A	N/A
1. Steel Siding	0.60	0.60*	NO	YES
Total R-value	14.27	h, ft², #/ft²		
Total U-value			0.172, F	

Item	Description	Quantity	Unit	Material
1
2
3
4
5
6
7
8
9
10

Item	Description	Quantity	Unit	Material
11
12
13
14
15
16
17
18
19
20

Item	Description	Quantity	Unit	Material
21
22
23
24
25
26
27
28
29
30

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016>

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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

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APP: 02-119274 PC
REVIEWED FOR
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DATE: 02/02/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
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MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENCED ARCHITECT
PATRICK CAVANAGH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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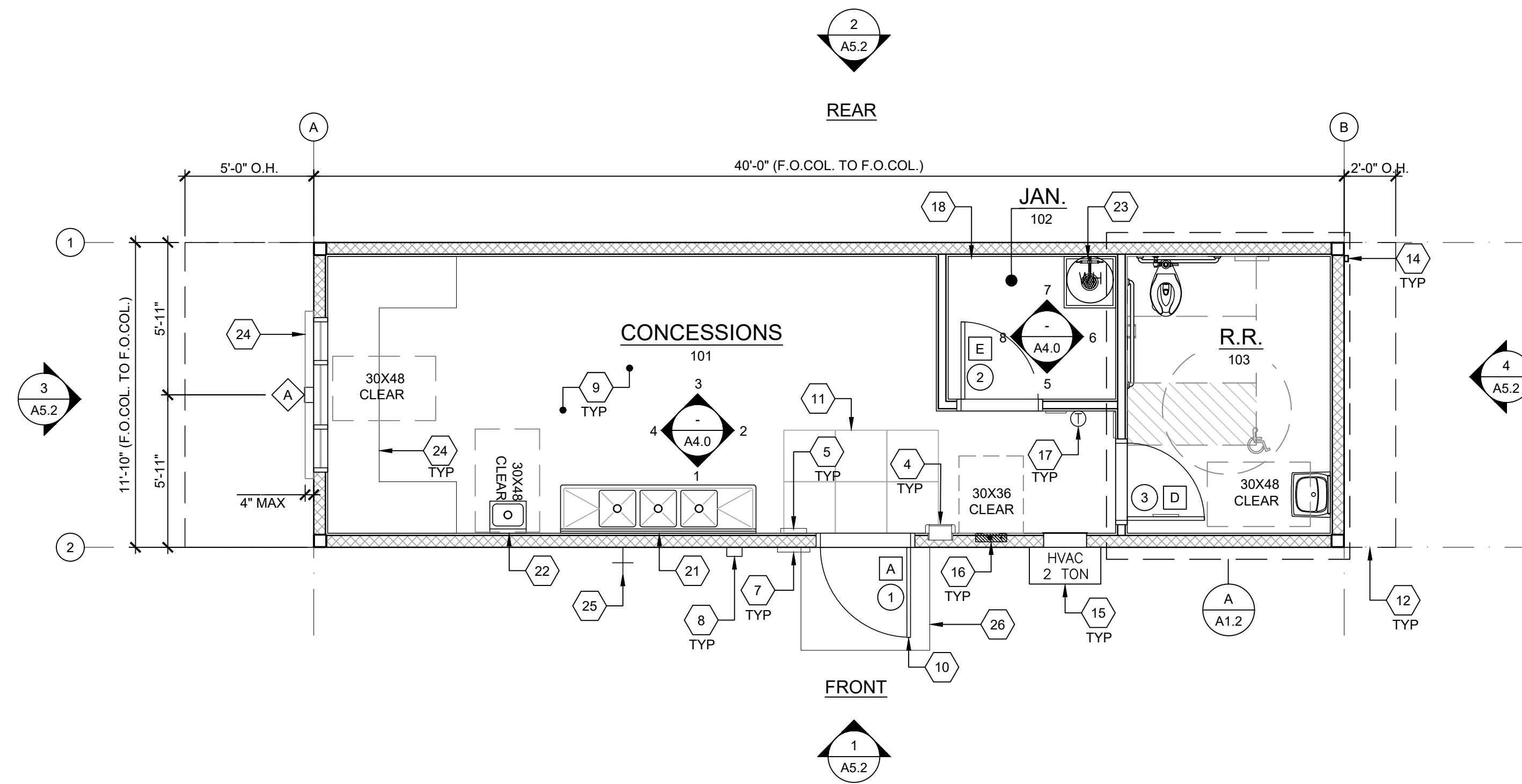
REVISIONS

NO.	DESCRIPTION

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MMDDYY
PROJECT NO.:	XXXX-20

SHEET TITLE:
ENERGY CALCULATIONS

SHEET NUMBER:
EN.6



- 1 NOT USED
- 2 NOT USED
- 3 TYP. MOD LINE
- 4 SEMI-RECESSED FIRE EXTINGUISHER - TOP OF HANDLE @ +48" A.F.F. 4" MAX PROTRUSION FROM WALL IF BOTTOM OF FIRE EXTINGUISHER IS ABOVE 27" A.F.F.
- 5 TACTILE EXIT SIGN PER DETAIL 10/N4.0 (BY OTHERS)
- 6 NOT USED
- 7 ROOM SIGNAGE AND I.S.A. PER DETAILS 589/N4.0 (BY OTHERS)
- 8 EXTERIOR LIGHT
- 9 SHEET VINYL FLOORING
- 10 EGRESS DOOR
- 11 NON-ABSORBENT FLOOR AREA (2'-0" MIN. IN ALL DIRECTIONS @ ALL ENTRY DOOR) CHANGES IN LEVEL ARE NOT PERMITTED IN DOOR MANEUVERING CLEARANCE UNLESS NON-ABSORBENT MATERIAL IS FLUSH WITH CARPET (11B-404.2.4).
- 12 OVERHANG
- 13 NOT USED
- 14 DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.O.N.)
- 15 HVAC - SEE MECHANICAL
- 16 ELECTRICAL PANEL
- 17 THERMOSTAT
- 18 WATER HEATER - SEE DETAIL 4/A1.2
- 19 ASSISTIVE LISTENING (AL) SIGN POSTED IN PROMINENT PLACE AT OR NEAR THE ENTRANCE PER 17/N4.0.
- 20 CASEWORK - INTERIOR SERVING COUNTERS BLOCKING AS NEEDED PER 8/A7.1
- 21 3 COMPARTMENT SINK
- 22 HAND WASH SINK
- 23 MOP SINK
- 24 STAINLESS STEEL COUNTER
- 25 HOSE BIB
- 26 5'-0" x 4'-0" SIDE OVERHANG (SEE SS.4A FOR DETAILS)

KEYNOTES

1. ALL PRIMARY EXTERIOR DOOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO OPENING, PER CALGREEN, SECTION 5.407.2.2.1.
2. PRIMARY EXTERIOR DOOR ENTRIES SHALL HAVE AT LEAST ONE OF THE FOLLOWING:
 - INSTALLED AWNING AT LEAST 4 FEET IN DEPTH (BY OTHERS).
 - SIDE WALL CANOPY (4 FEET IN DEPTH) PER SHEET SS.4A.
 - ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
 - DOOR RECESSED AT LEAST 4 FEET.
 - OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION (BY OTHERS).
3. WINDOW PLACEMENT & SIZE MAY VARY AS THE PC TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE PROVIDED THAT THE MAXIMUM WINDOW AREA IS 160 SQ.FT.

SITE NOTE

3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

- (X #) = MECHANICAL OR PLUMBING FIXTURE - SEE MECHANICAL OR PLUMBING DRAWINGS
- (X) = KEY NOTE - SEE KEY NOTES ABOVE
- (X) = DOOR TYPE - SEE SCHEDULE, SHEET N3.0
- (X) = DOOR HARDWARE - SEE HARDWARE SCHEDULE, SHEET N3.0
- (X) = WINDOW TYPE - SEE SCHEDULE, SHEET N3.0

TYPICAL FLOOR PLAN

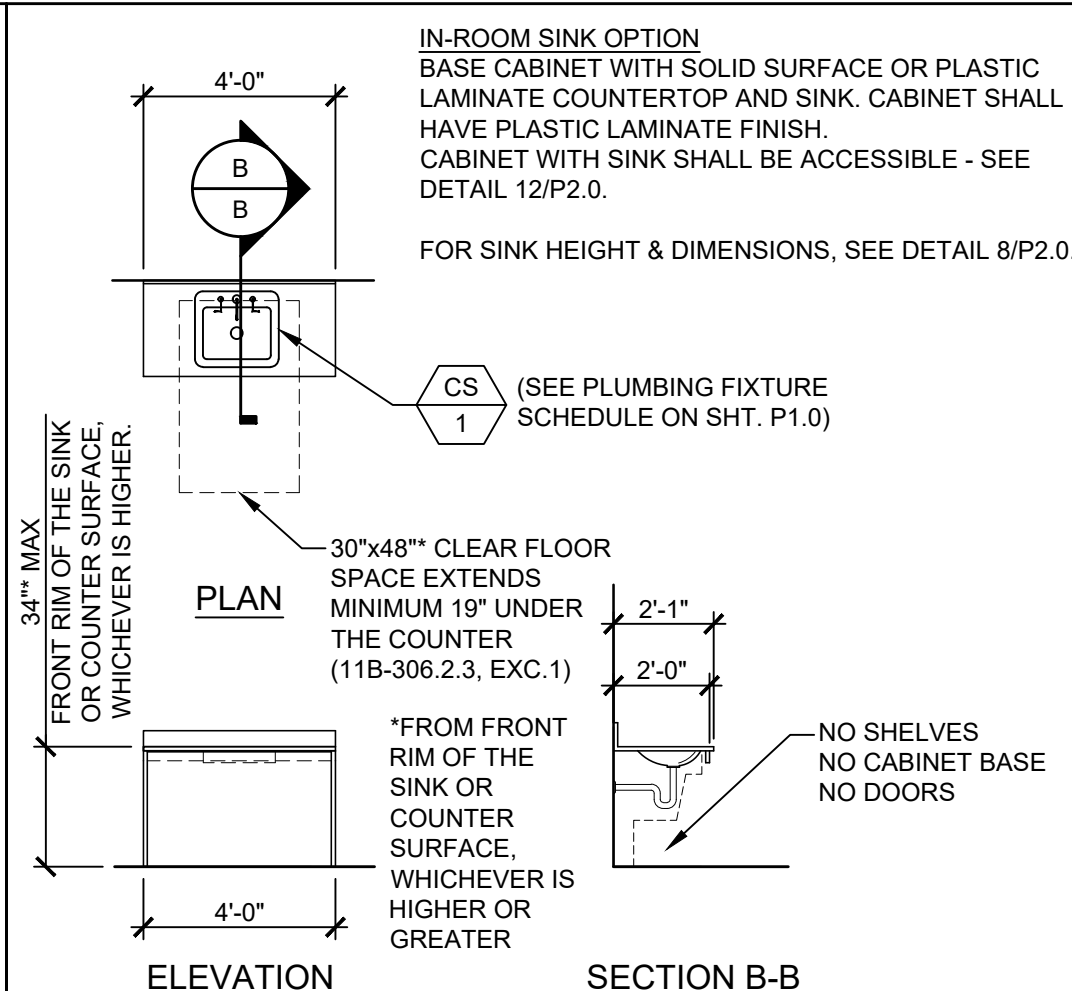
SCALE: 1/4" = 1'-0"

SYMBOLS LEGEND

SHEET NOTES

3. IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO ANOTHER PC CLASSROOM OR RESTROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR/CEILING SHALL MEET THE MINIMUM REQUIREMENT OF A STC OF 40, PER CALGREEN CODE SECTION 507.4.3. (EXAMPLES OF QUALIFYING ASSEMBLIES SHOWN BELOW).
- (2) LAYER 5/8" GYPSUM BOARD SECURED TO MIN. 2x4 STUDS @ 24" O.C. MAX. w/ 3/2" THK. BATT INSULATION

STC=40
TEST REF.: AUDIO ALLOY L.L.C TEST NUMBER: OL-05-1003
4. MINIMUM WINDOW & DOOR RATINGS: ALL WINDOWS AND DOORS SPECIFIED ON THE SCHEDULES FOUND ON SHEET N3.0 OF THIS PACKAGE SHALL MEET A MINIMUM STC RATING OF 27.



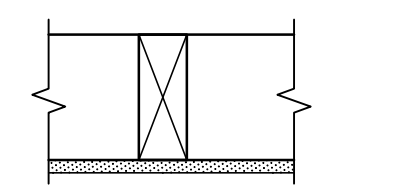
ENERGY CONTROLS

1. DEMAND RESPONSE CONTROLS: ONLY REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F., THEREFORE, NOT REQUIRED FOR THIS PC.
2. AUTOMATIC DAYLIGHTING CONTROLS: NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN ON SHEET E1.0). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED.
3. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION: PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.

NOTE: ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THE BASE PC.

ACOUSTIC CONTROLS

1. WHEN THE PRE-CHECK (PC) BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES SHALL COMPLY WITH THE CALGREEN CODE, SECTION 5.507.4, FOR THE SPECIFIC SITE LOCATION.
2. MINIMUM WALL ASSEMBLIES: WALL ASSEMBLIES SHALL BE CONSTRUCTED PER DETAIL SHEETS A5.1, A5.3, A5.5, A5.7, & A8.0, WITH EITHER 2x4 WOOD STUDS OR 6" STEEL STUDS PER LISTED OPTIONS. MINIMUM STC RATINGS LISTED BELOW ARE PER THE CATALOG OF STC & IIC RATINGS FOR WALL AND FLOOR/CEILING ASSEMBLIES, PRODUCED BY THE OFFICE OF NOISE CONTROL, CA DEPARTMENT OF HEALTH SERVICES.



(1) LAYER 1/2" GYPSUM BOARD SECURED TO MIN. 2x4 STUDS @ 16" O.C. MAX.

STC=28
(CATALOG SECTION 1.2.1.5.4.1)
TEST REF.: NATIONAL RESEARCH COUNCIL OF CANADA - NRC #66

NOT USED

CLASSROOM SINK - OPTIONAL

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

ENERGY NOTES

ACOUSTIC NOTES

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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME
**CORCORAN JOINT USD
KINGS LAKE EDUCATION CENTER
(1) 12'x40' BUILDING**

2019 CBC PRE-CHECK (PC) DOCUMENT
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REVISIONS

NO.	DESCRIPTION

DRAWN BY: ABD
SCALE: AS NOTED
DATE: 04/25/21
PROJECT NO: 1663-21

SHEET TITLE:
TYPICAL FLOOR PLAN

SHEET NUMBER:
A1.0

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-120247 INC:
 REVIEWED FOR
 SS FLS ACS
 DATE: 06/24/2022

AMS
 American Modular Systems
 787 Spreckels Ave., Manteca, CA 95336
 Phone (209) 825-1921 Fax (209) 825-7018
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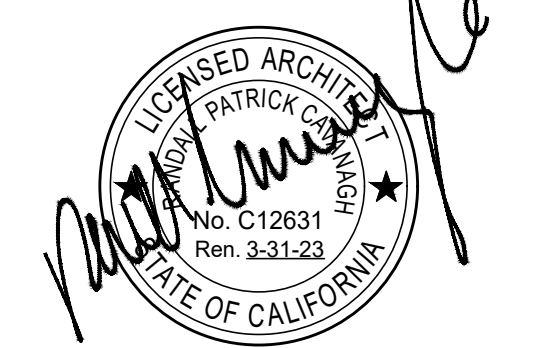
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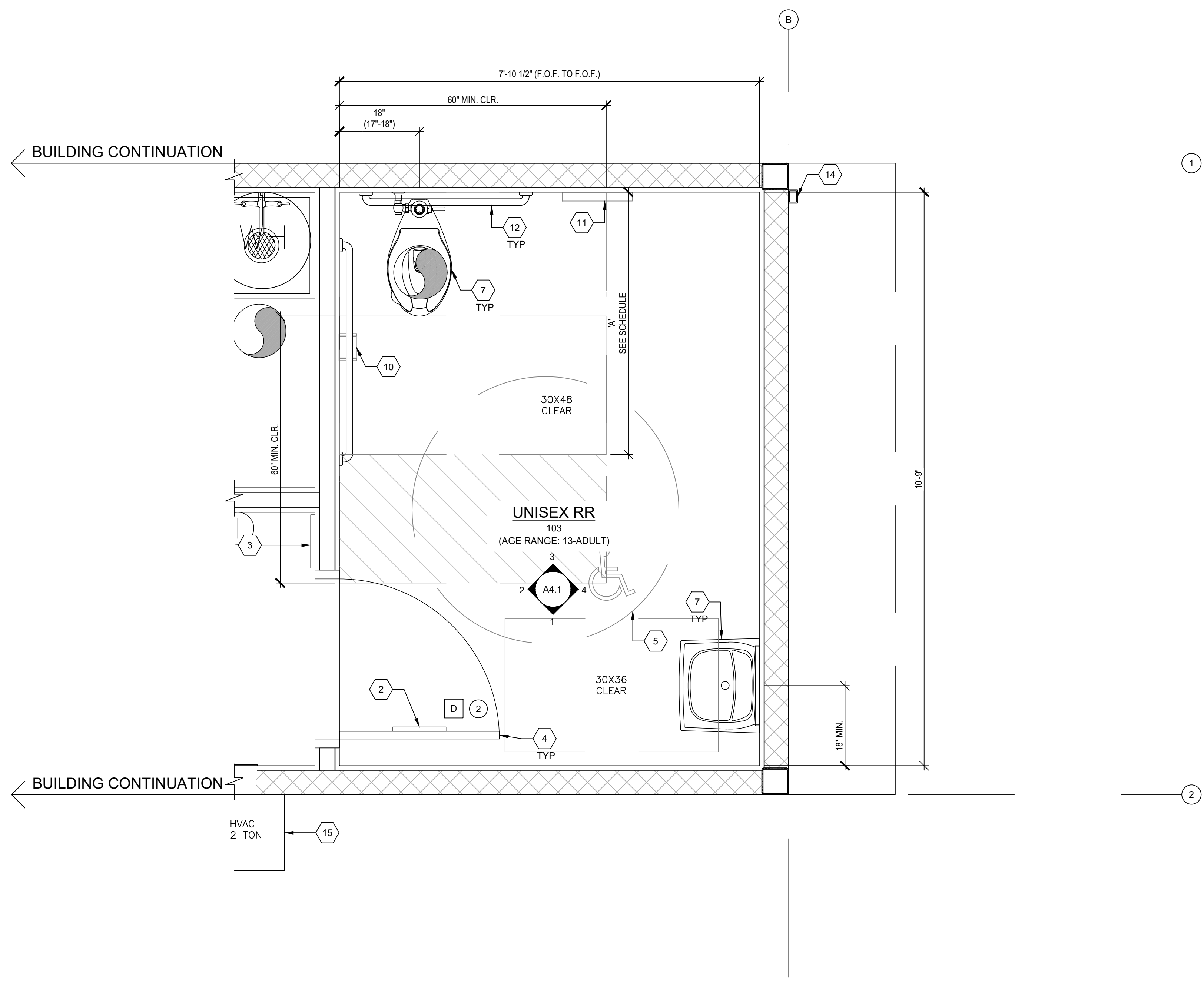
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DRAWN BY: ABD
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 DATE: 04/25/21
 PROJECT NO: 1663-21

SHEET TITLE:
RESTROOM FLOOR PLAN

SHEET NUMBER:
A1.2



ACCESSIBLE CLEARANCE FOR WATER CLOSETS

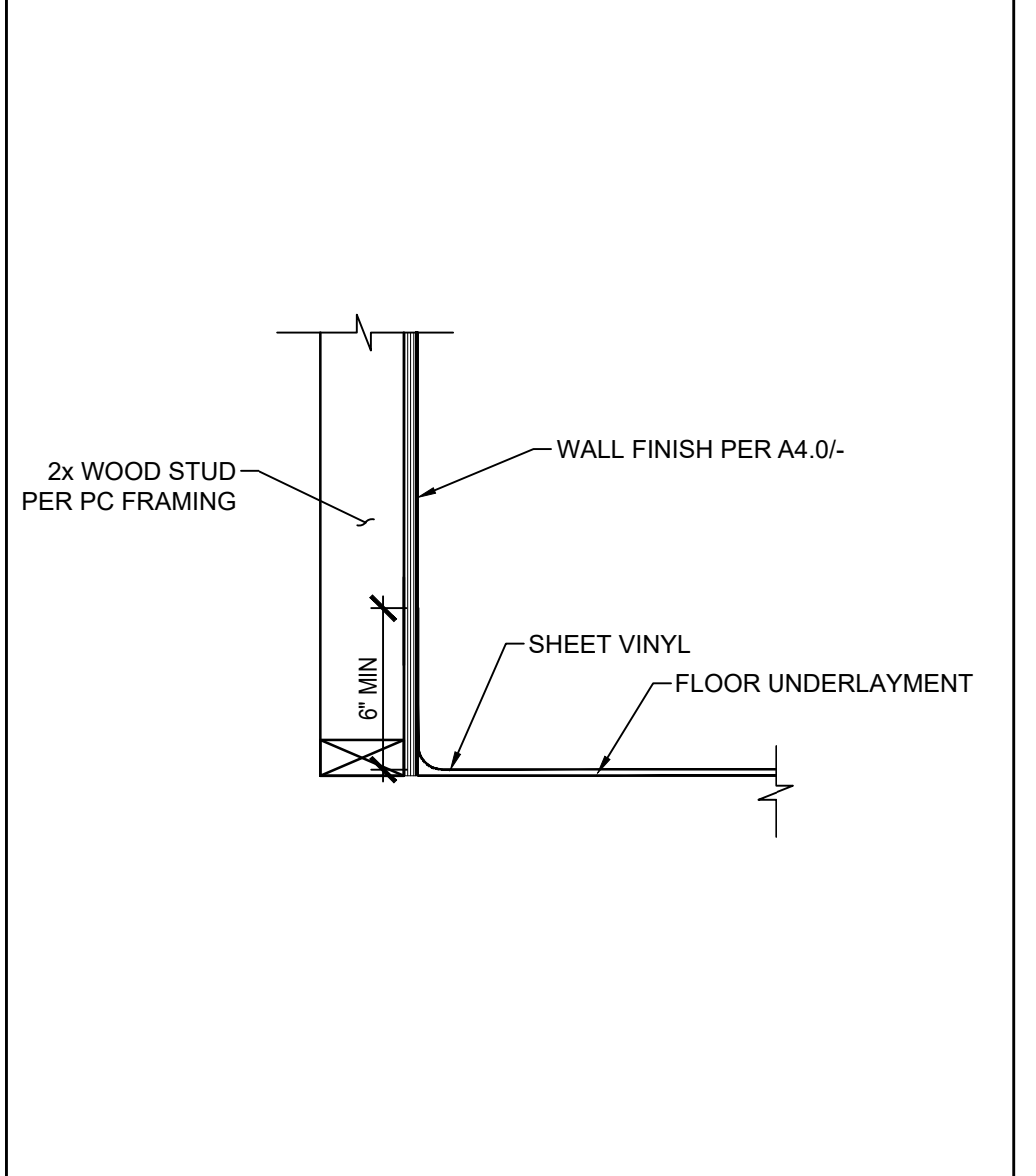
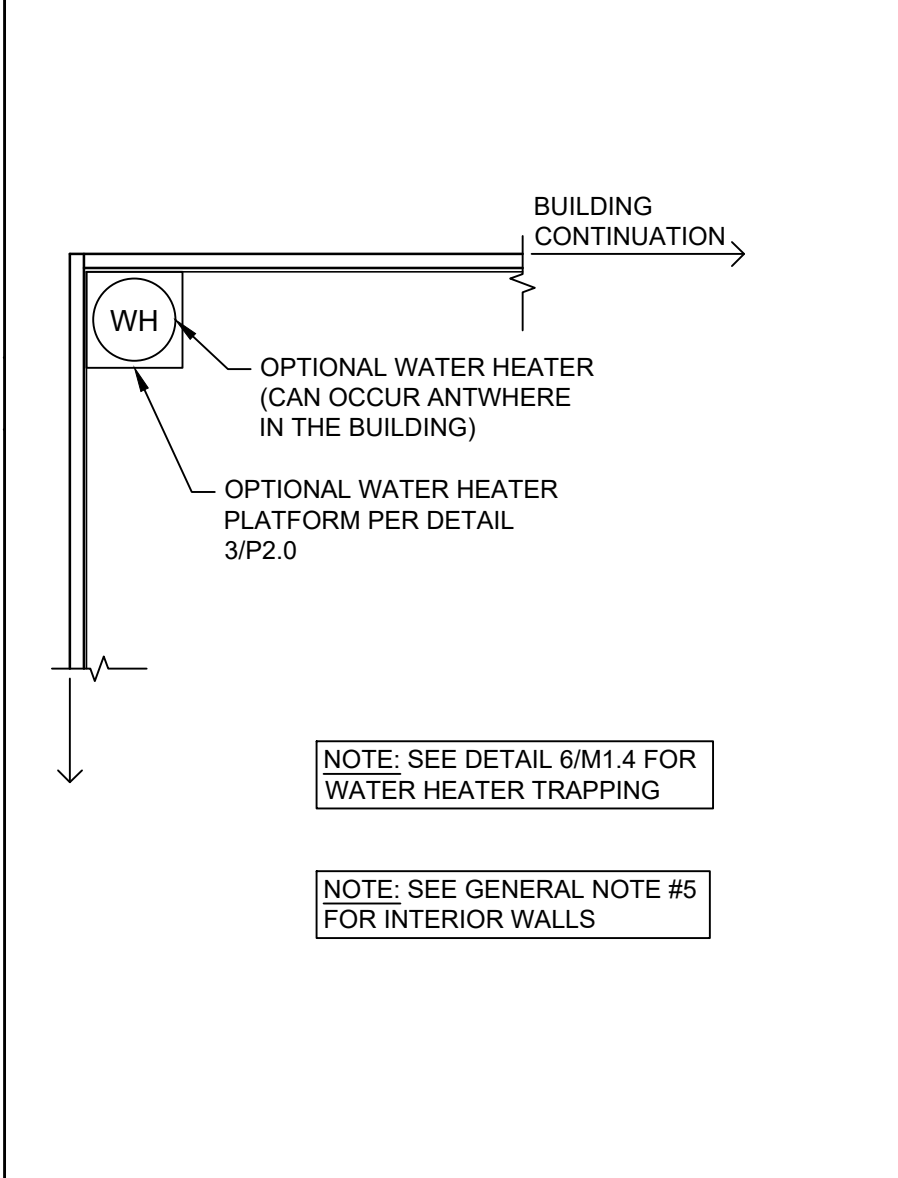
'A'		WALL MOUNTED	FLOOR MOUNTED
		CHILDREN	59" MIN.
	NON-CHILDREN	56" MIN.	59" MIN.

- ACCESSIBLE TOILET COMPARTMENT'S SHALL HAVE A MANEUVERING SPACE COMPLYING WITH 2019 CBC SECTION 11B-604.8.1.1.
- THE TABLE ABOVE IS A LIST OF REQ'D WATER CLOSET CLEARANCE. THE W.C. MANEUVERING SPACE IS LOCATED IN FRONT OF THE W.C. AND IS DESCRIBED IN 11B-604.8.1.1.1, 11B-604.8.1.1.2 AND 11B-604.8.1.1.3 DEPENDING ON IF THE DOOR IS END-OPENING OR SIDE-OPENING AND DIRECTION OF SWING.
- THE MANEUVERING CLEARANCE FOR ALL ACCESSIBLE TOILET COMPARTMENTS'S SHOWN IN THESE PLANS SHALL COMPLY WITH 11B-604.8.1.1.1 (IN-SWINGING) & 11B-604.8.1.1.2 (SIDE-OPENING)

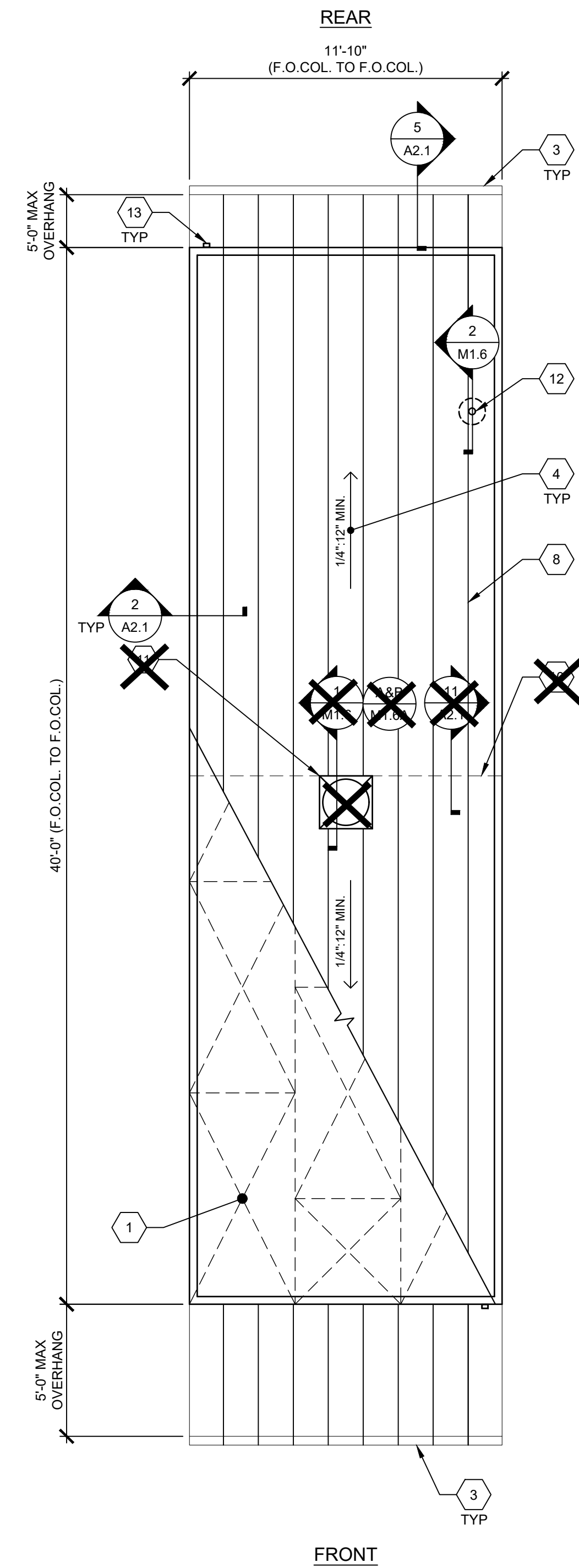
RESTROOM FLOOR PLAN - OPTION #1

- RESTROOM CONFIGURATION MAY VARY.
 - RESTROOM MODULE OCCURS AT END OF BUILDING WHEN COMBINED WITH OTHER MODULES: SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
 - NOT USED.
 - INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 FOR ATTACHMENTS.
 - REFER TO SCHEDULE 7/P2.0 FOR ACCESSIBLE HEIGHTS AND DIMENSIONS.
 - REFER TO DETAILS 2, 4 & 5, SHEET A7.2 FOR TOILET PARTITION ANCHORAGE-BLOCKING.
 - PROVIDE FIRE BLOCKING PER DETAIL 5, SHEET M1.5.
 - SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON PLANS AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
 - PIPING MATERIAL:
 A. WATER: COPPER TYPE "L", 95/5 SOLDER.
 B. WASTE DRAIN AND VENT: ABS.
 - TOILET COMPARTMENT DOORS LOCATED IN THE FRONT PARTITION SHALL BE 4" MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET, PER C.B.C. SECTION 11B-604.8.1.2.
- PLUMBING NOTE**
 MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES - BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY - ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR UON.
- SITE NOTE**
 3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

- KEYNOTES
- | | |
|----|---|
| 1 | MOD LINE |
| 2 | DOOR SIGNAGE PER 2 & 7/N4.0 (BY OWNER) |
| 3 | RESTROOM I.D. SIGNAGE (BY OTHERS) PER DETAILS 1-10, SHEET N4.0 |
| 4 | TYPICAL DOOR PER SCHEDULE ON SHEET N3.0. |
| 5 | CLEAR FLOOR SPACE AREA |
| 6 | ELECTRICAL PANEL |
| 7 | PLUMBING FIXTURE PER P1.0 |
| 8 | NOT USED |
| 9 | NOT USED |
| 10 | TOILET TISSUE DISPENSER (BRADLEY MODEL 508-32, OR EQUAL) |
| 11 | TOILET SEAT COVER DISPENSER (BOBRICK MODEL B-221, OR EQUAL) |
| 12 | GRAB BARS - SEE 6/A7.1 |
| 13 | NOT USED |
| 14 | DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.N.O.) - (QUANTITY AND LOCATION MAY VARY) |
| 15 | HVAC - SEE MECHANICAL |



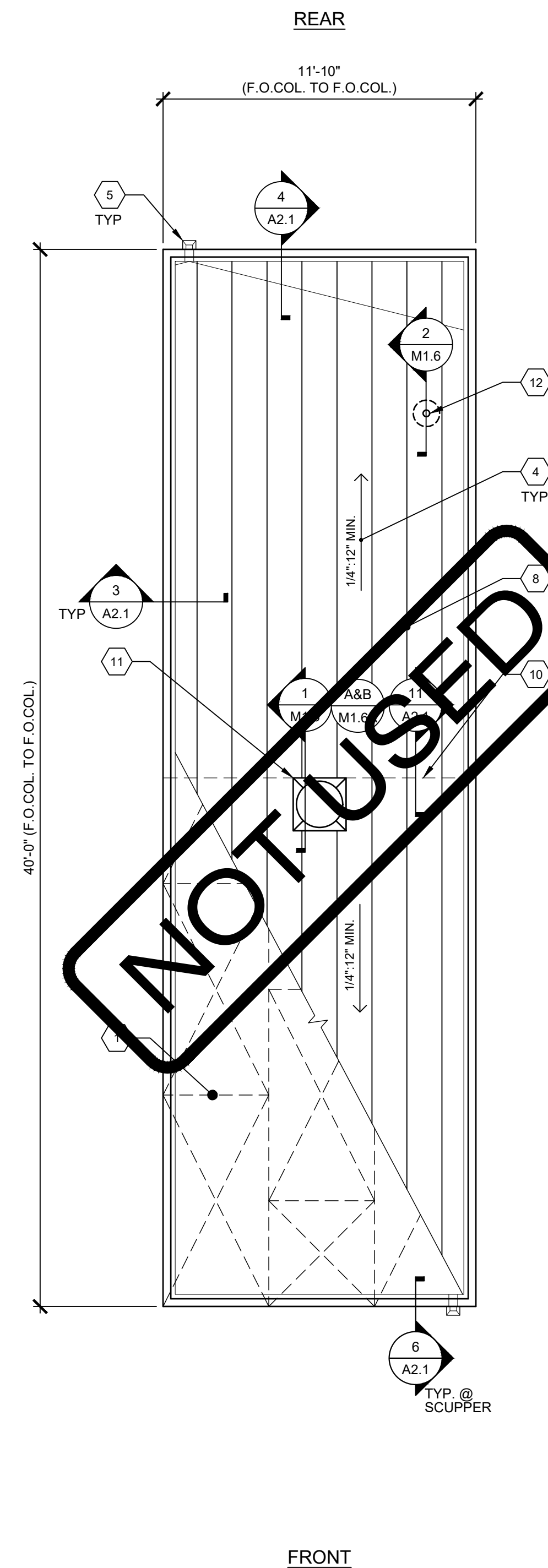
- SYMBOLS LEGEND
- 1 = KEY NOTE - SEE KEY NOTES, THIS SHEET
 - X = DOOR TYPE - SEE SCHEDULE SHEET N3.0
 - X = DOOR HARDWARE - SEE HARDWARE SCHEDULE SHEET N3.0
 - X = WINDOW TYPE - SEE SCHEDULE SHEET N3.0
 - 60" = 60" DIAMETER CLEAR FLOOR TURNING SPACE
 - 30"x48" = 30"x48" CLEAR FLOOR SPACE



TYPICAL ROOF PLAN

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

1



ROOF PLAN WITH PARAPETS

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

2

ROOF AREA DRAINS (WITH 7'-0" OVERHANG)			
BUILDING SIZE (NOM)	ROOF AREA	MINIMUM NO. OF DRAINS	SIZE OF DRAIN
□ 12x14	168	1	2x3

- NOTES:
1. DOWNSPOUT LEADER PER C.P.C. 1106.1 AND TABLE 1101.11.
 2. PC DOWNSPOUT SIZES BASED ON ROOF AREA AND MAX RAINFALL RATE OF 3" PER HOUR. SITE SPECIFIC BUILDING MAY UTILIZE LOCAL RAINFALL RATE--PROVIDE SITE RAINFALL RATE TO DETERMINE MINIMUM NUMBER OF DRAINS REQUIRED.

ROOF DRAIN SCHEDULE

NOT USED

NOT USED

NOT USED

- 1 ROOF SHEATHING PER SHEET S4.1 OR STEEL STRAP CROSS BRACING PER S4.0
- 2 NOT USED
- 3 OPTIONAL GUTTER PER DETAIL 5/A2.1
- 4 TYPICAL ROOF SLOPE
- 5 OPTIONAL SCUPPER (LOCATION MAY VARY) PER 13/A2.1 - SEE ROOF DRAIN SCHEDULE FOR MIN. # OF DRAINS
- 6 NOT USED
- 7 NOT USED
- 8 STANDING SEAM METAL ROOF OPTION. SEE DETAILS ON A2.1
- 9 NOT USED
- 10 RIDGE @ DUAL SLOPE OPTION
- 11 OPTIONAL SOLATUBE - SEE SHEET NOTE #1
- 12 PIPE VENT PER PLUMBING PLANS & 2/M1.6
- 13 OPTIONAL DOWNSPOUT - SEE ROOF DRAIN SCHEDULE BELOW

KEY NOTES

1. SOLATUBE LOCATIONS SHOWN ON PLAN ARE GENERIC AND ACTUAL LOCATIONS MAY VARY. (A) MAX PER MOD - FRAMING PER S4.0 & S4.1 INSTALLATION PER DETAILS 1 OR 15/M1.6
2. OPTIONAL GUTTERS SHALL BE LOCATED ALONG THE END WALLS OF THE BUILDING(S):
 MONO-SLOPE: REAR END WALLS ONLY
 DUAL PITCH: BOTH FRONT & REAR END WALLS
3. EITHER ROOF SHEATHING OR STRAP CROSS BRACING MAY BE USED FOR MONO-SLOPE OR DUAL PITCH SLOPED BUILDING(S).

SHEET NOTES

- SOLAR ZONE REQUIRED, PER TITLE 24 SECTION 110.10. FOR NON-RESIDENTIAL BUILDINGS, 3 STORIES OR LESS, A MINIMUM OF 15% OF ROOF AREA (EXCLUDING SKYLIGHTS) MUST BE SET ASIDE FOR PHOTO-VOLTAICS (PV). THE ROOF MUST HAVE NO ROOF OBSTRUCTIONS.
1. THE PC ROOF FRAMING HAS BEEN DESIGNED PER THE DESIGN LOADS SPECIFIED ON SHEET TS, WHICH DOES INCLUDE LOADS FROM SOLAR EQUIPMENT THAT MIGHT BE INSTALLED AT A LATER DATE AS LONG AS THE SOLAR PANELS ARE INSTALLED FLAT ON THE ROOF.
 2. NOT USED
 3. EQUIPMENT SUCH AS SOLAR MODULES, INVERTERS, AND METERING EQUIPMENT DO NOT NEED TO BE INSTALLED, NOR DOES CONDUIT, PIPING, OR PRE-INSTALLED MOUNTING HARDWARE.
 4. A STRUCTURAL ENGINEER SHOULD BE CONSULTED PRIOR TO ANY FUTURE ROOF-TOP SOLAR INSTALLATIONS TO DETERMINE THE ADEQUACY OF THE ROOF FRAMING TO SUSTAIN THE LOADS OF THE INSTALLATION ON THE BUILDING STRUCTURE.
 5. A NON-PC DSA APPLICATION NUMBER (SITE SPECIFIC JOB) IS REQUIRED FOR DESIGN & ROOF-TOP INSTALLATION OF SOLAR PANEL SYSTEMS. ITS ANCHORAGE & SUPPORT STRUCTURE ABOVE THE ROOF FRAMING, ROOF-TOP SOLAR SYSTEM SUBMITTALS SHALL NOT BE SUBMITTED AS AN OVER-THE-COUNTER SUBMITTAL.

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APP: 02-120247 INC:
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SS FLS ACS
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AMS
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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LICENSED ARCHITECT
PATRICK COWLEY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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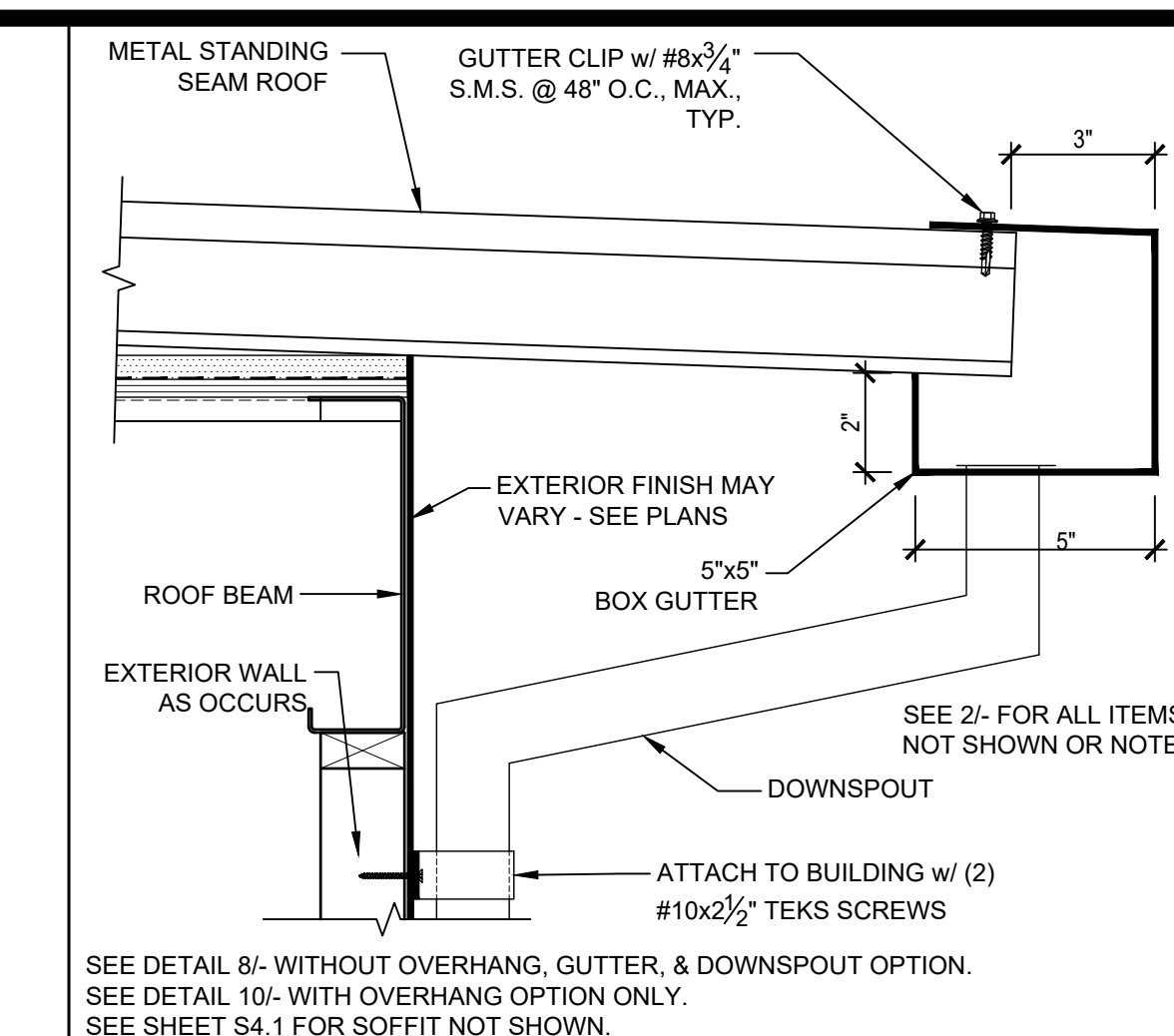
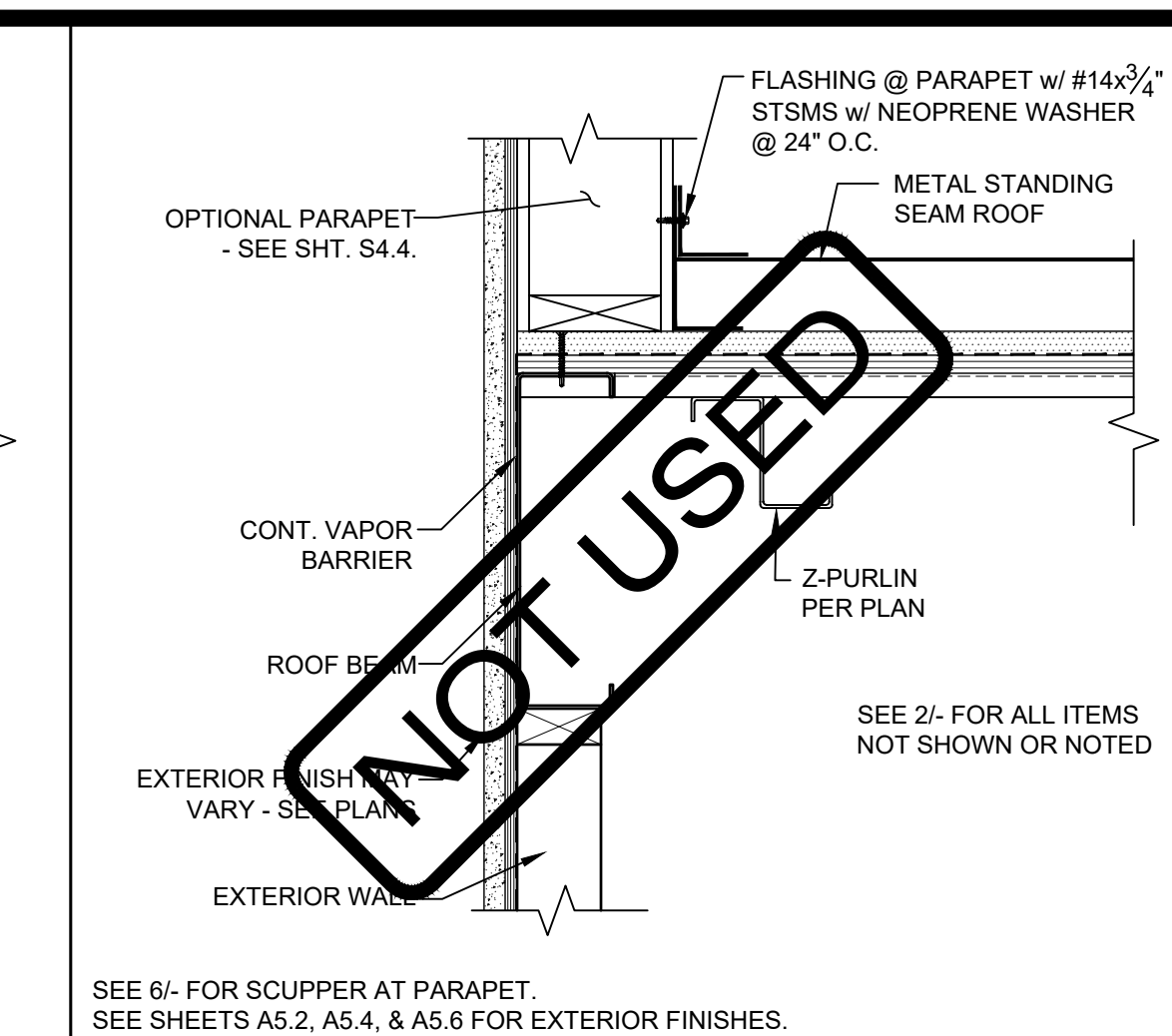
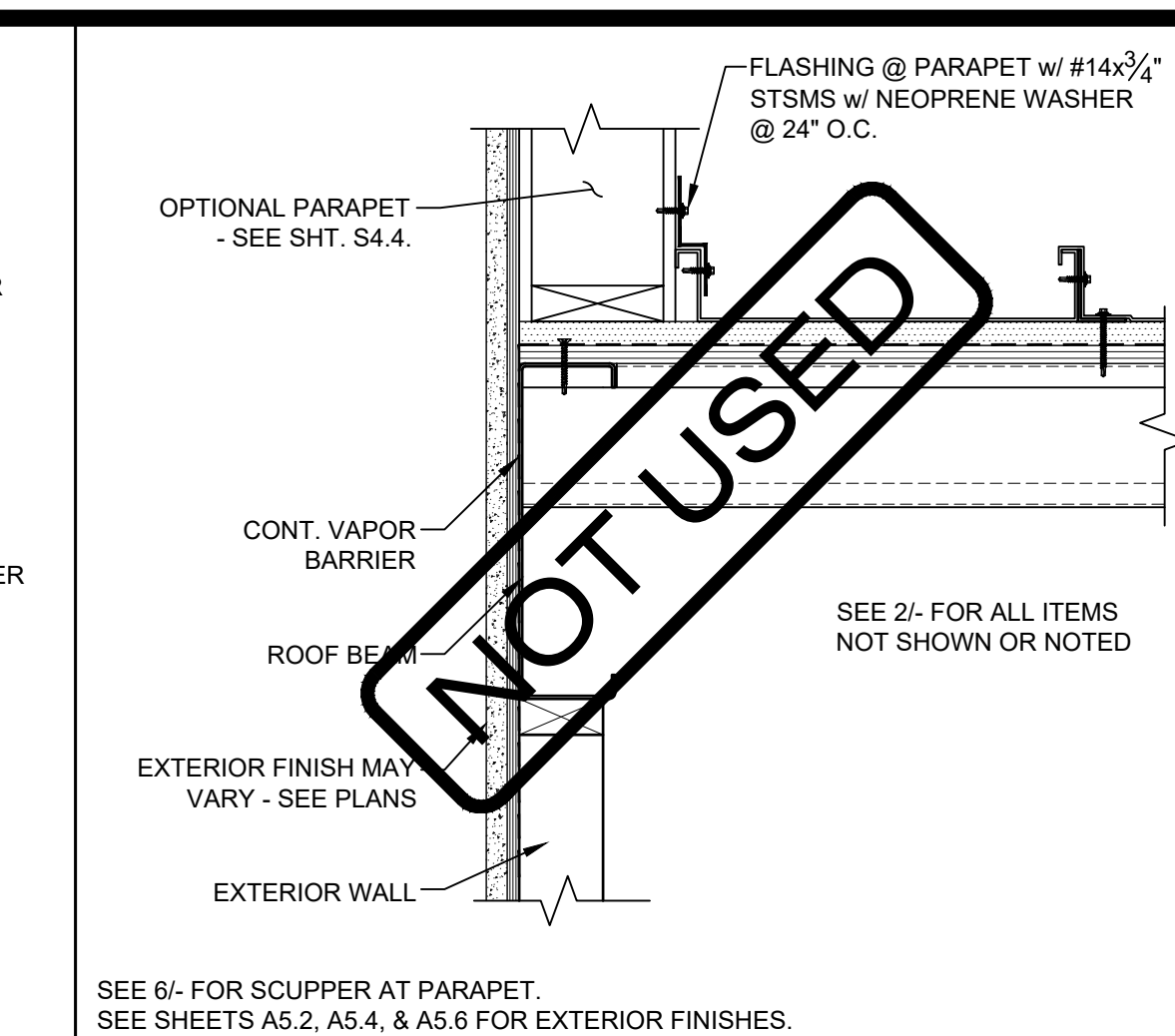
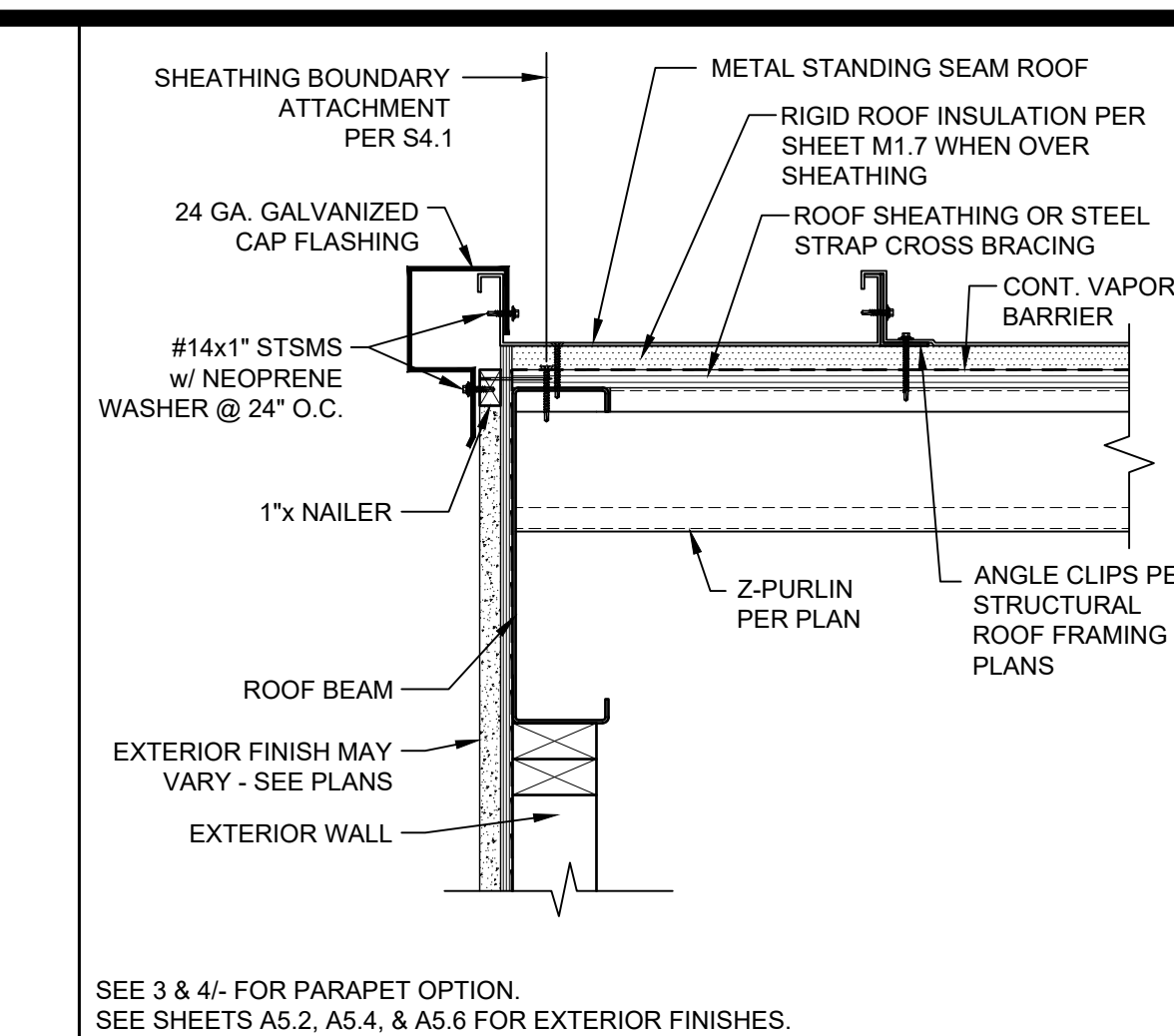
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DATE: MM/DD/YY
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TYPICAL ROOF PLAN
METAL STANDING SEAM

SHEET NUMBER:

A2.0

SOLAR NOTES



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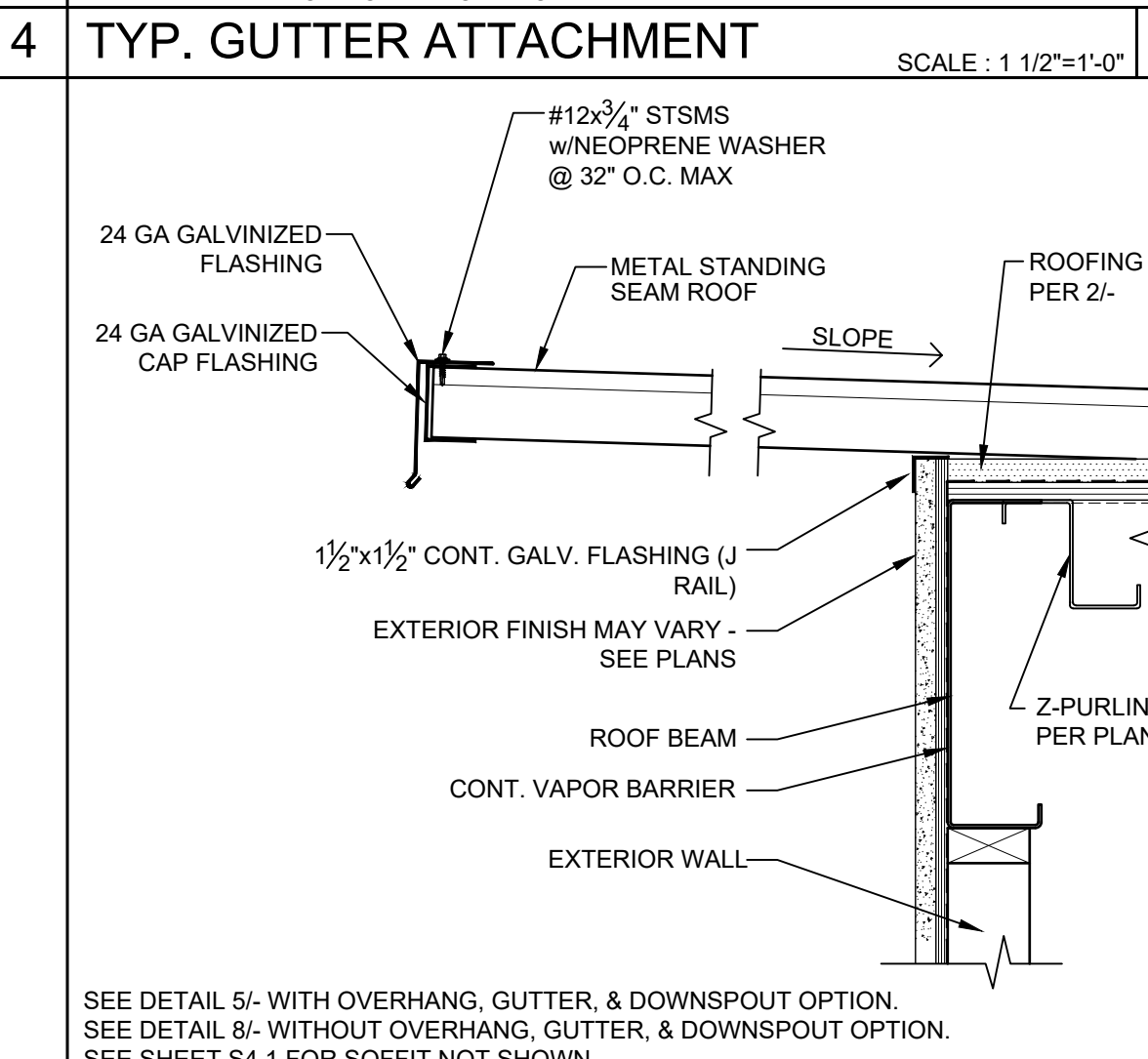
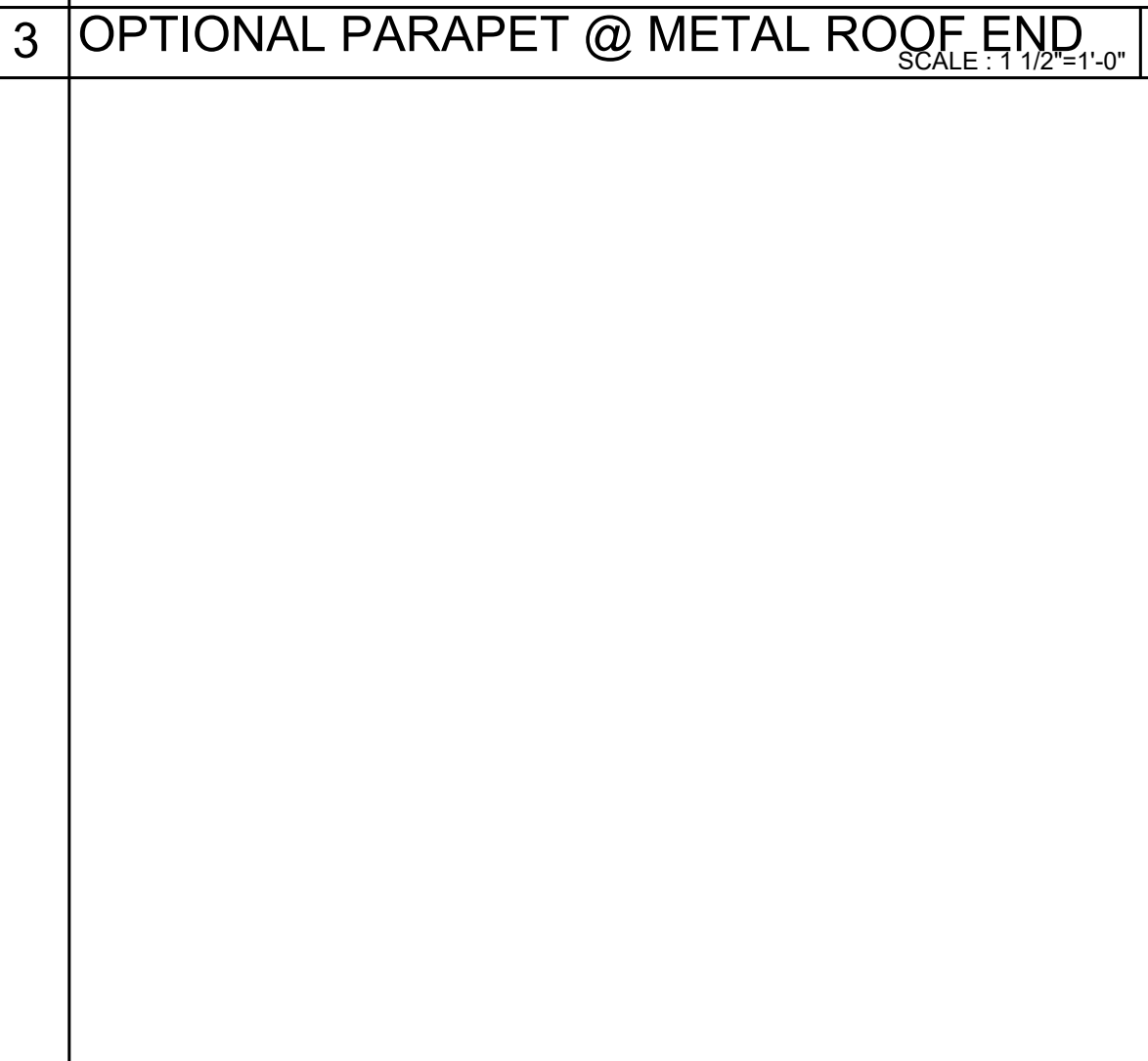
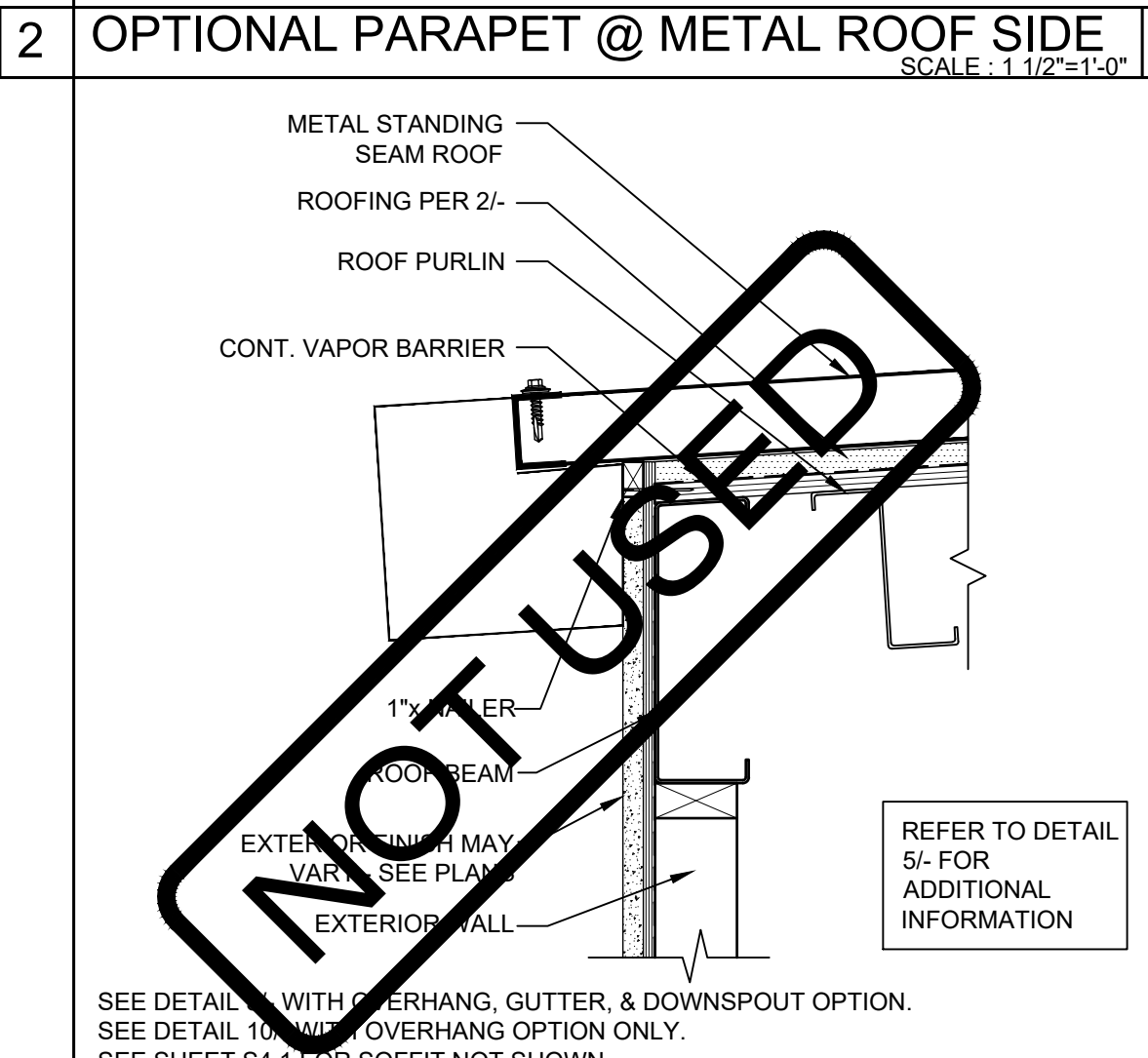
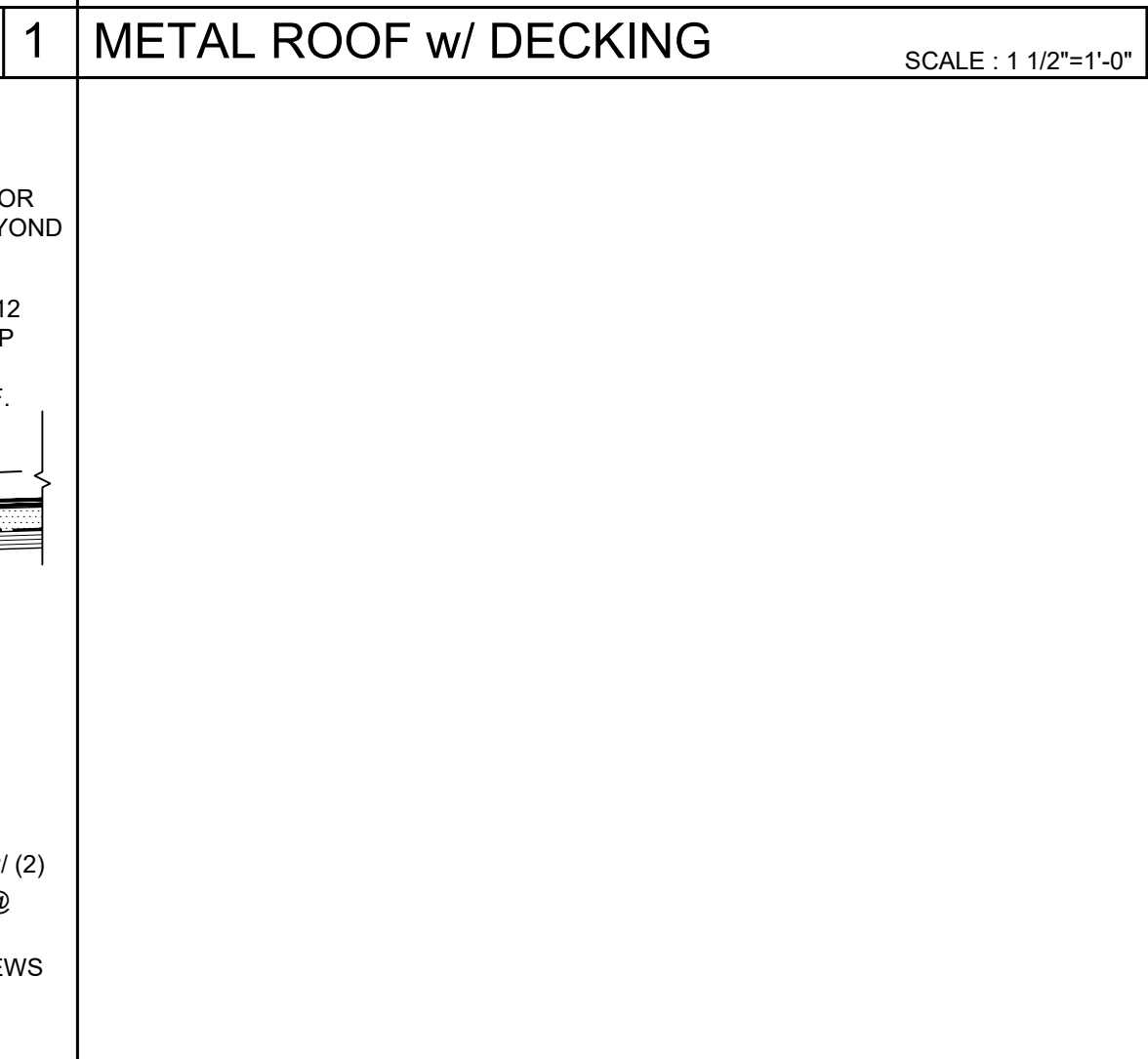
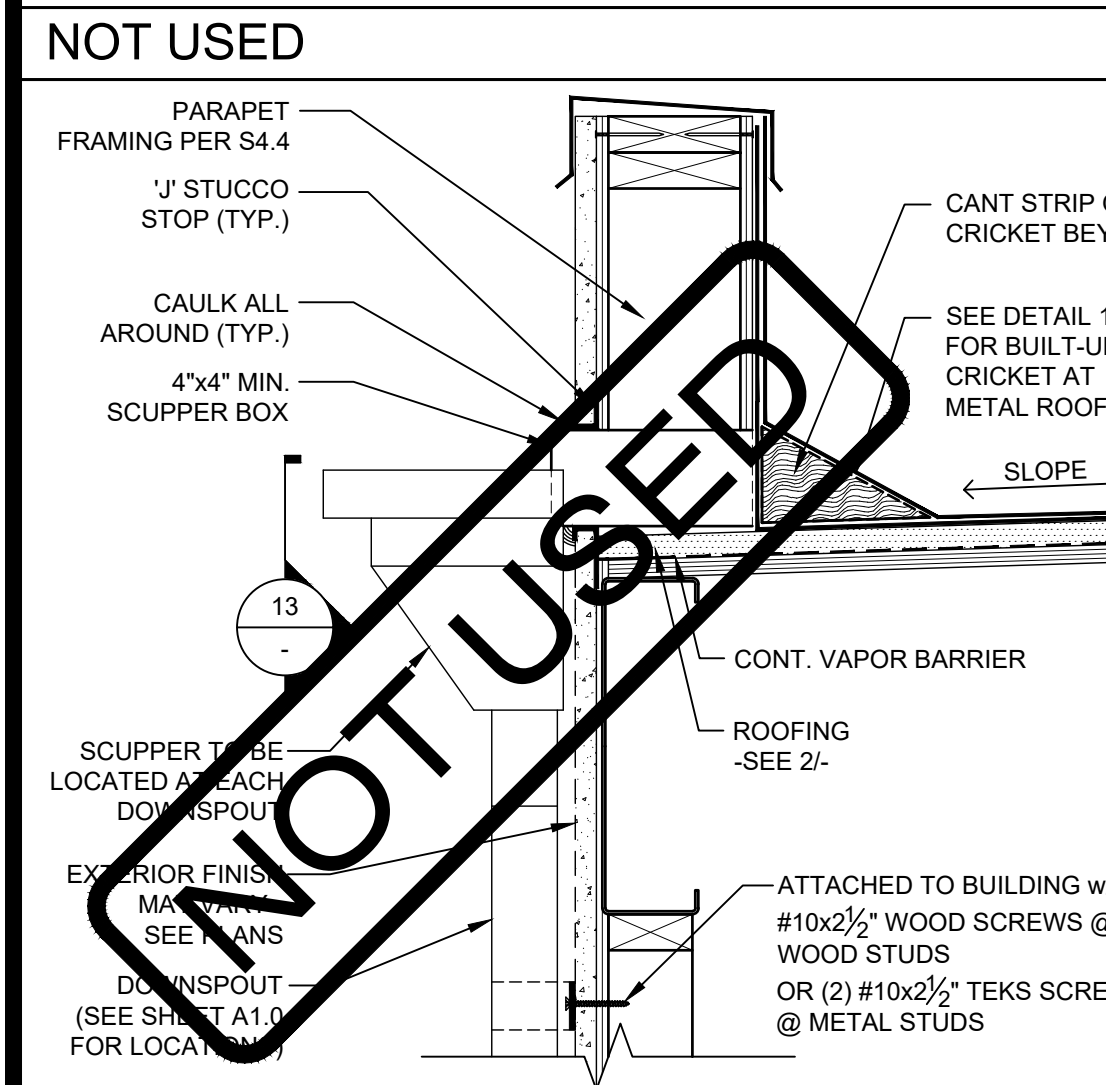
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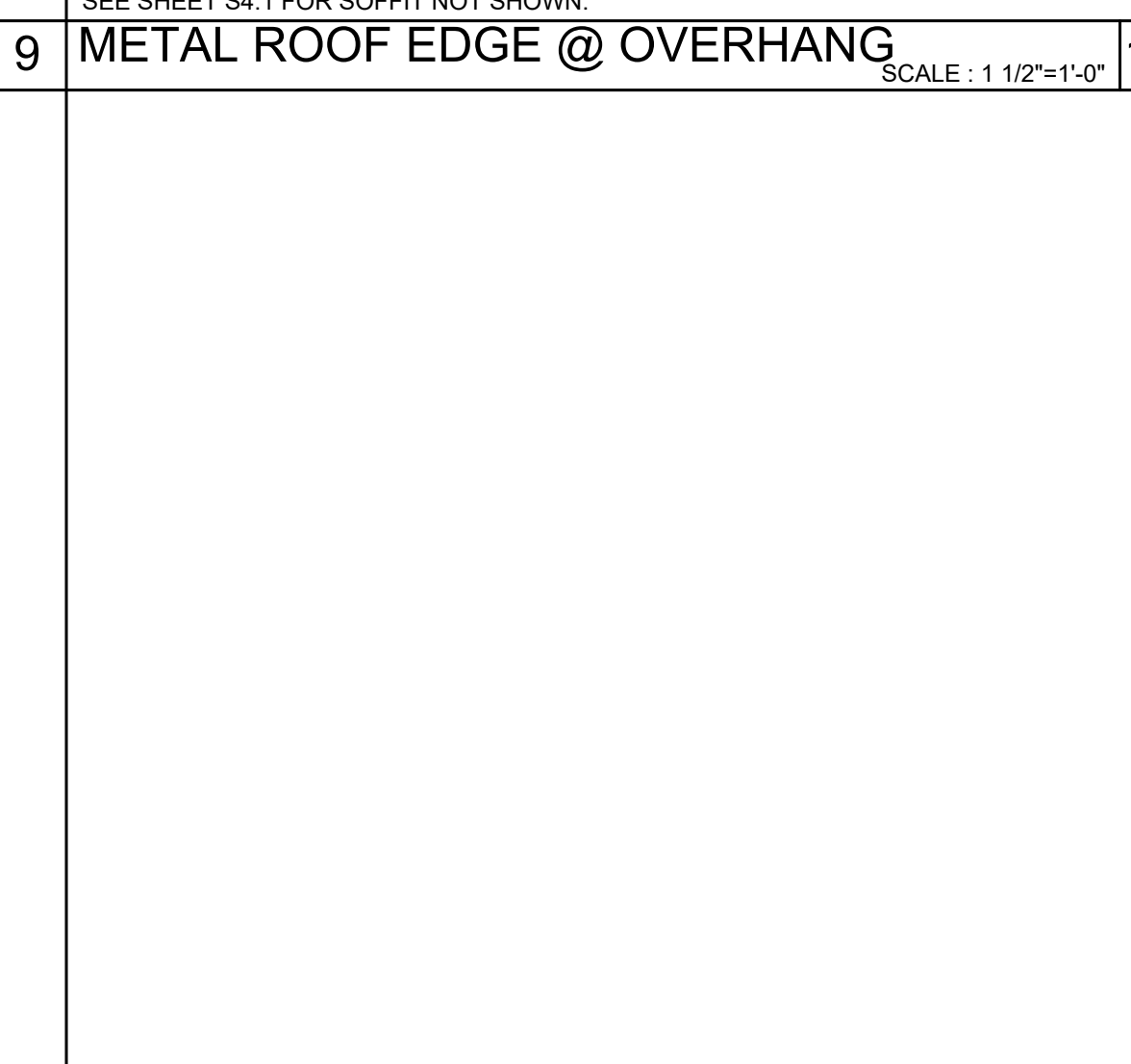
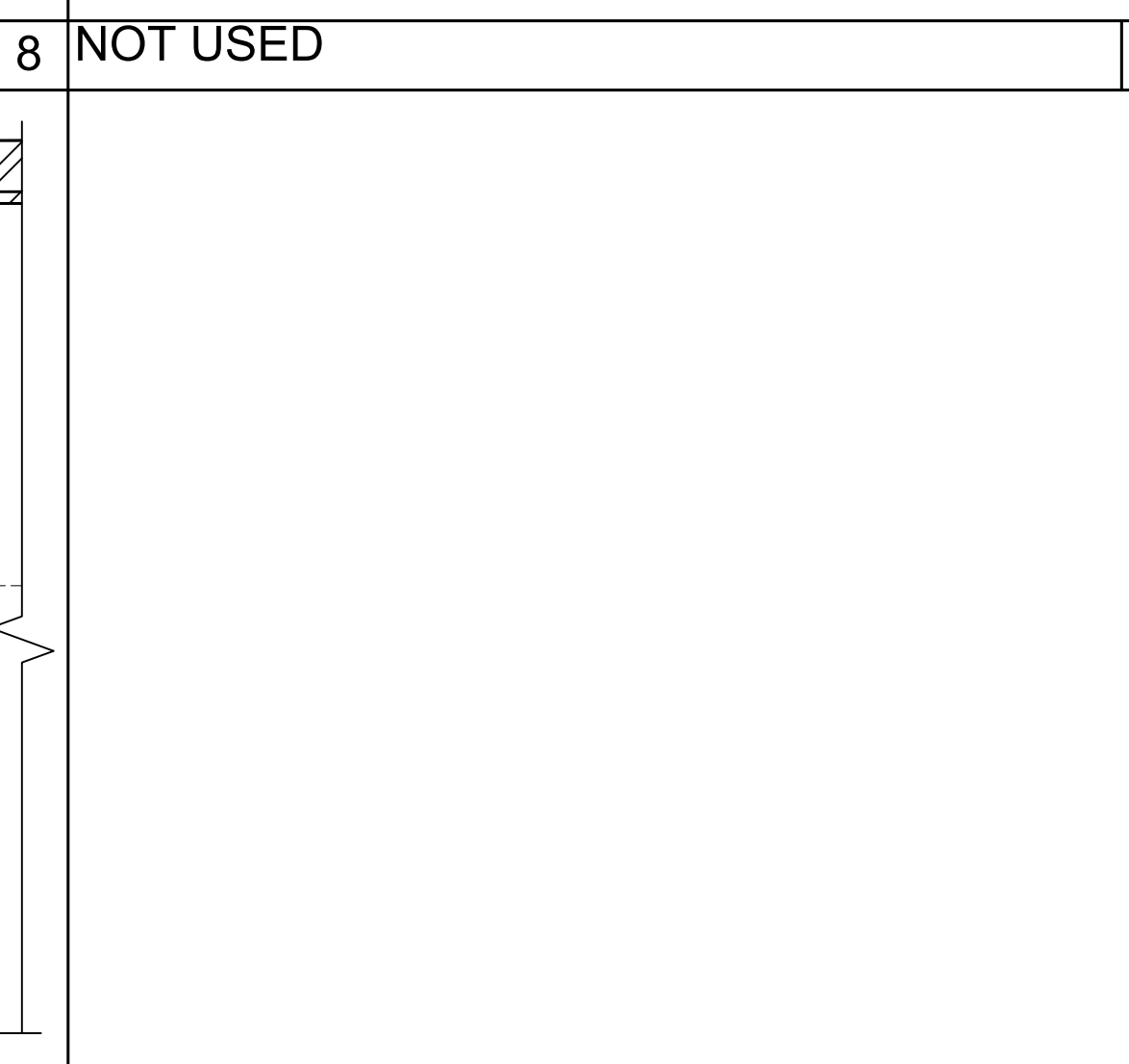
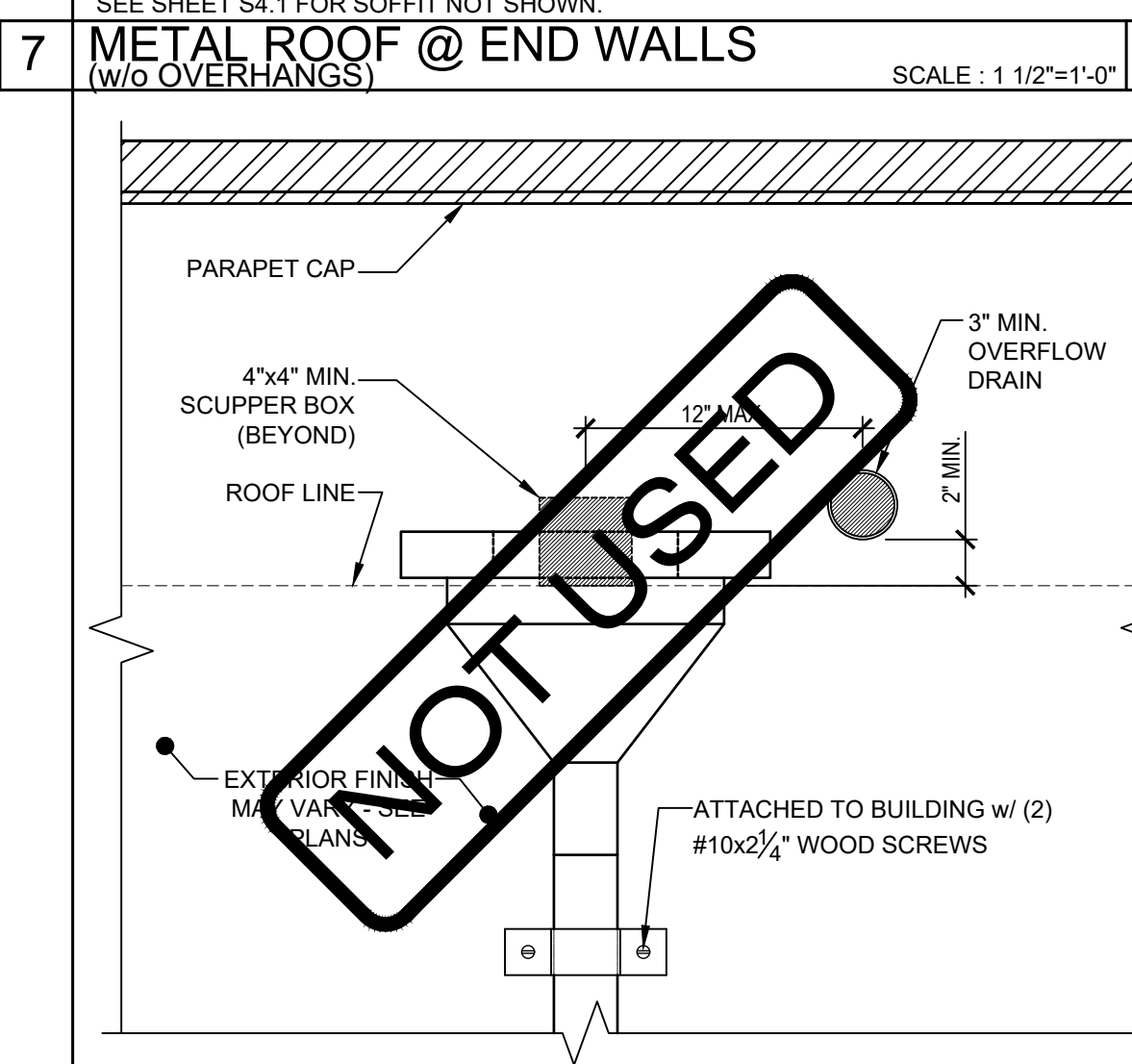
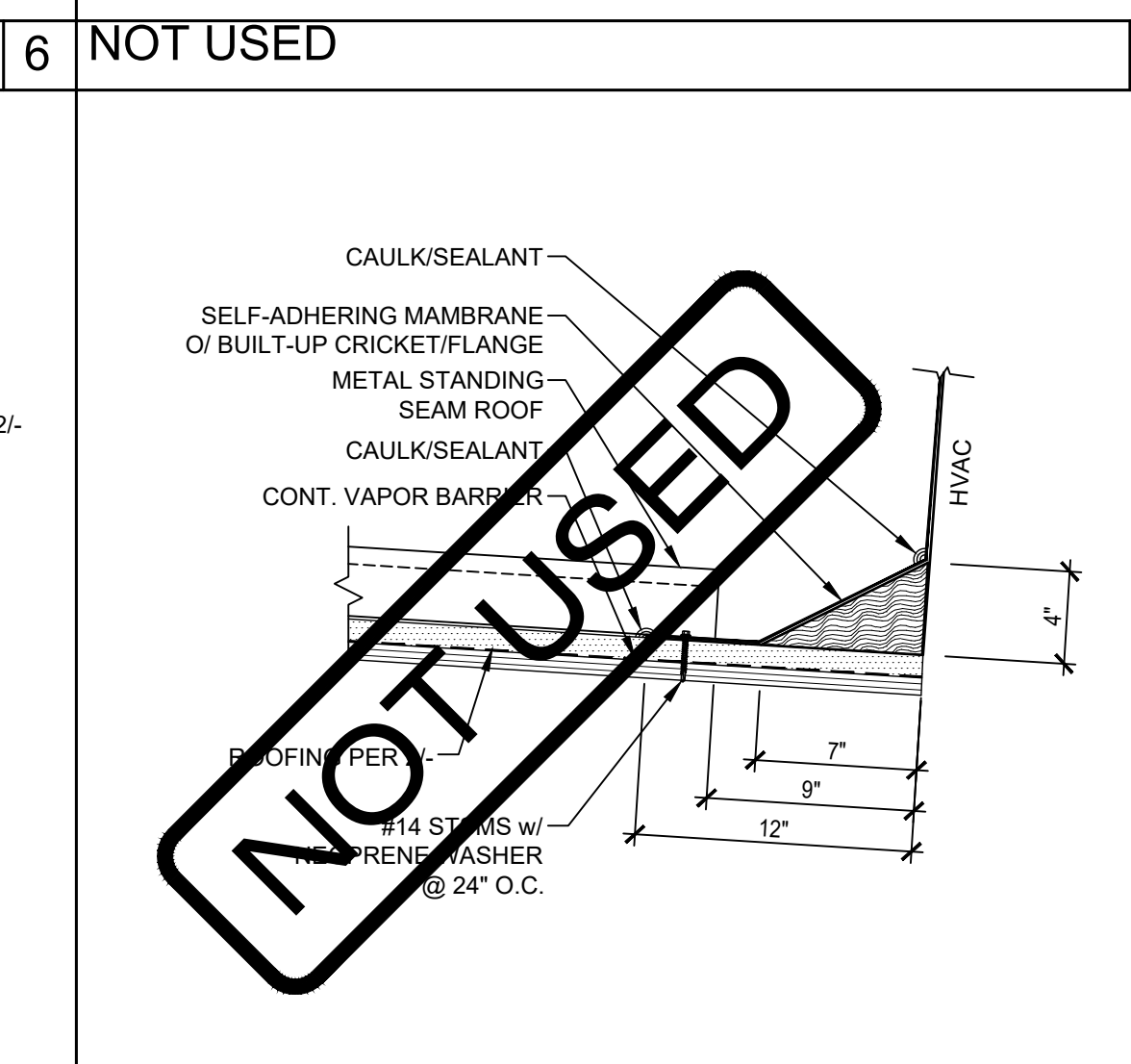
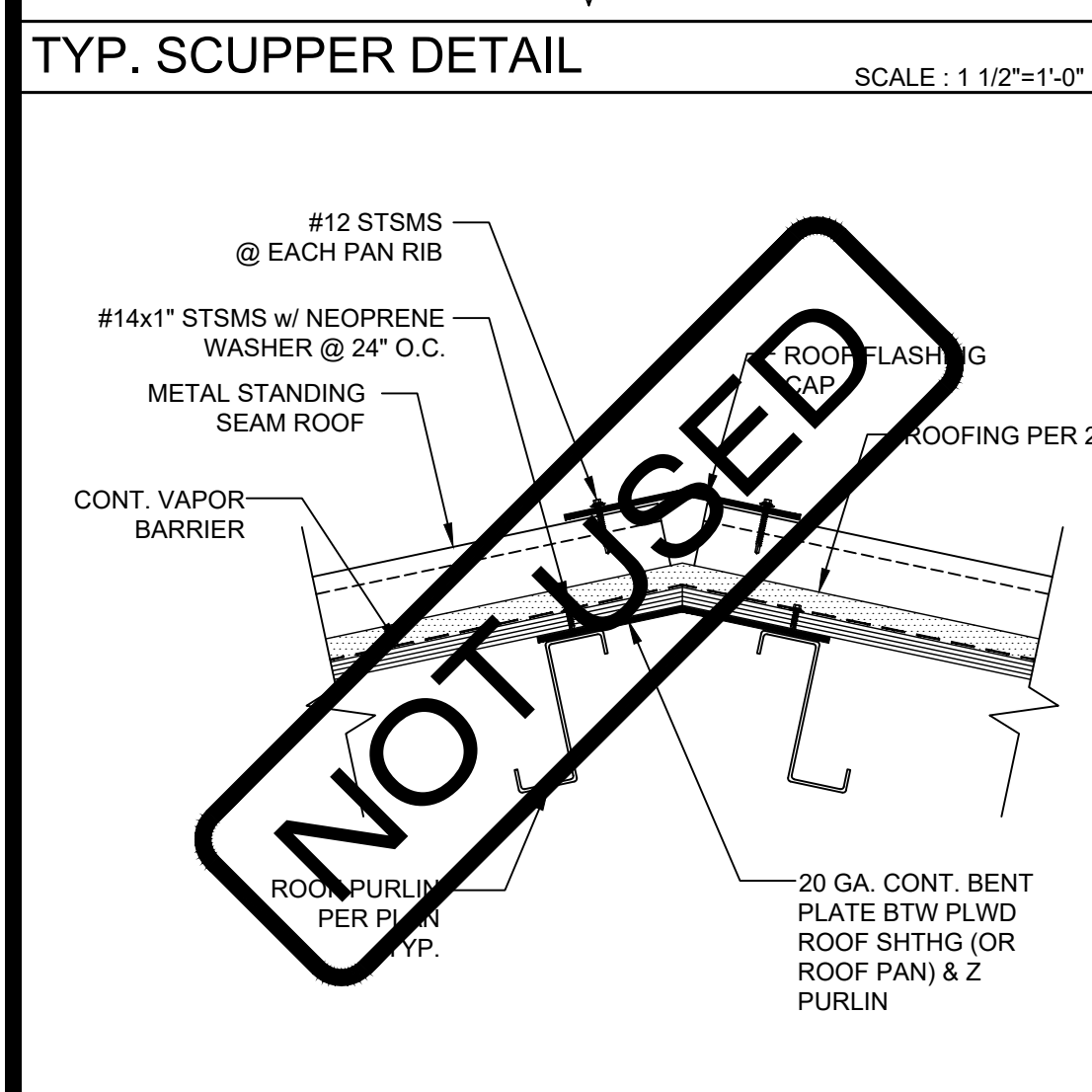
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**TYPICAL ROOF DETAILS
METAL STANDING SEAM
ROOFING**
SHEET NUMBER:
A2.1



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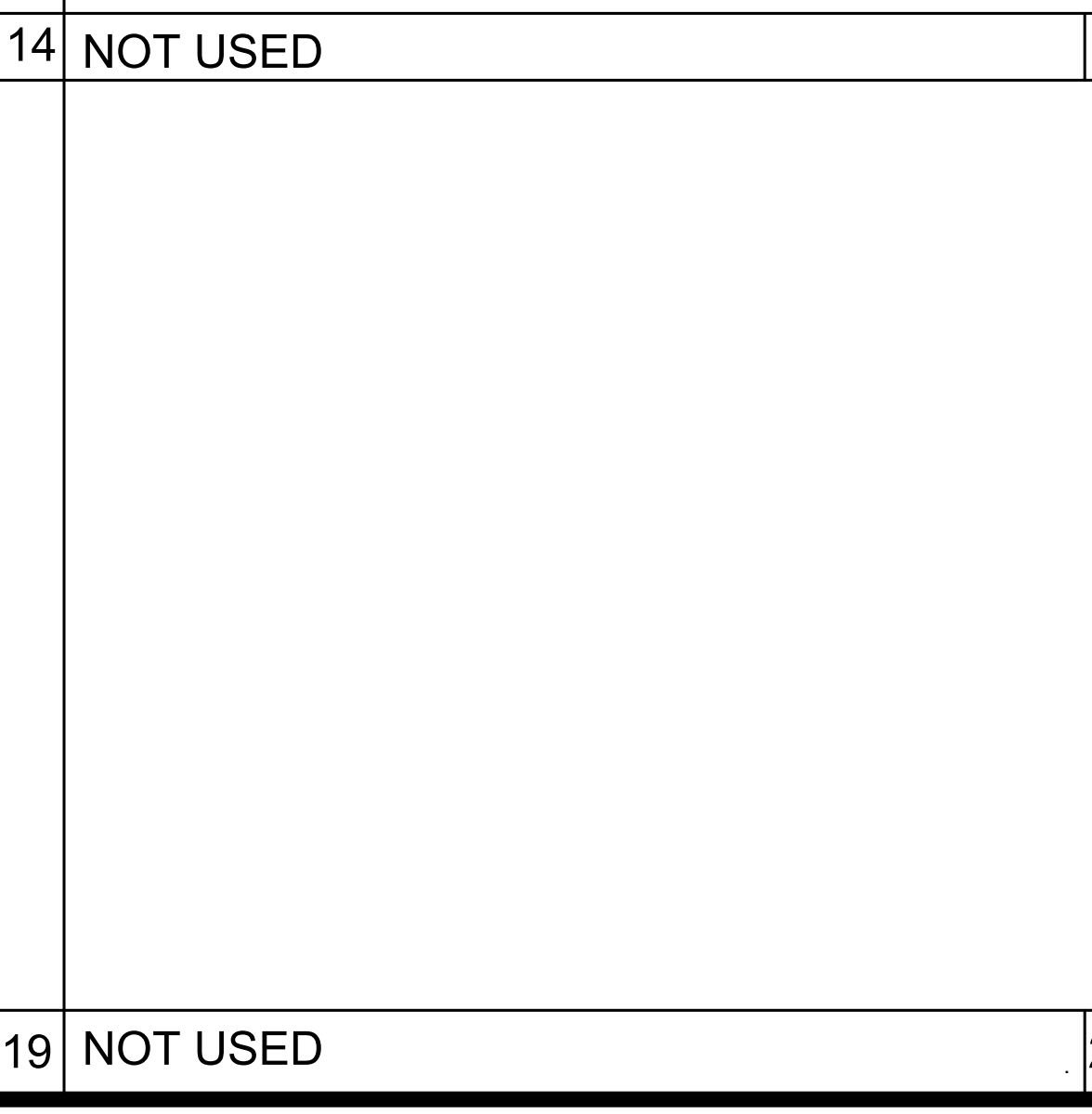
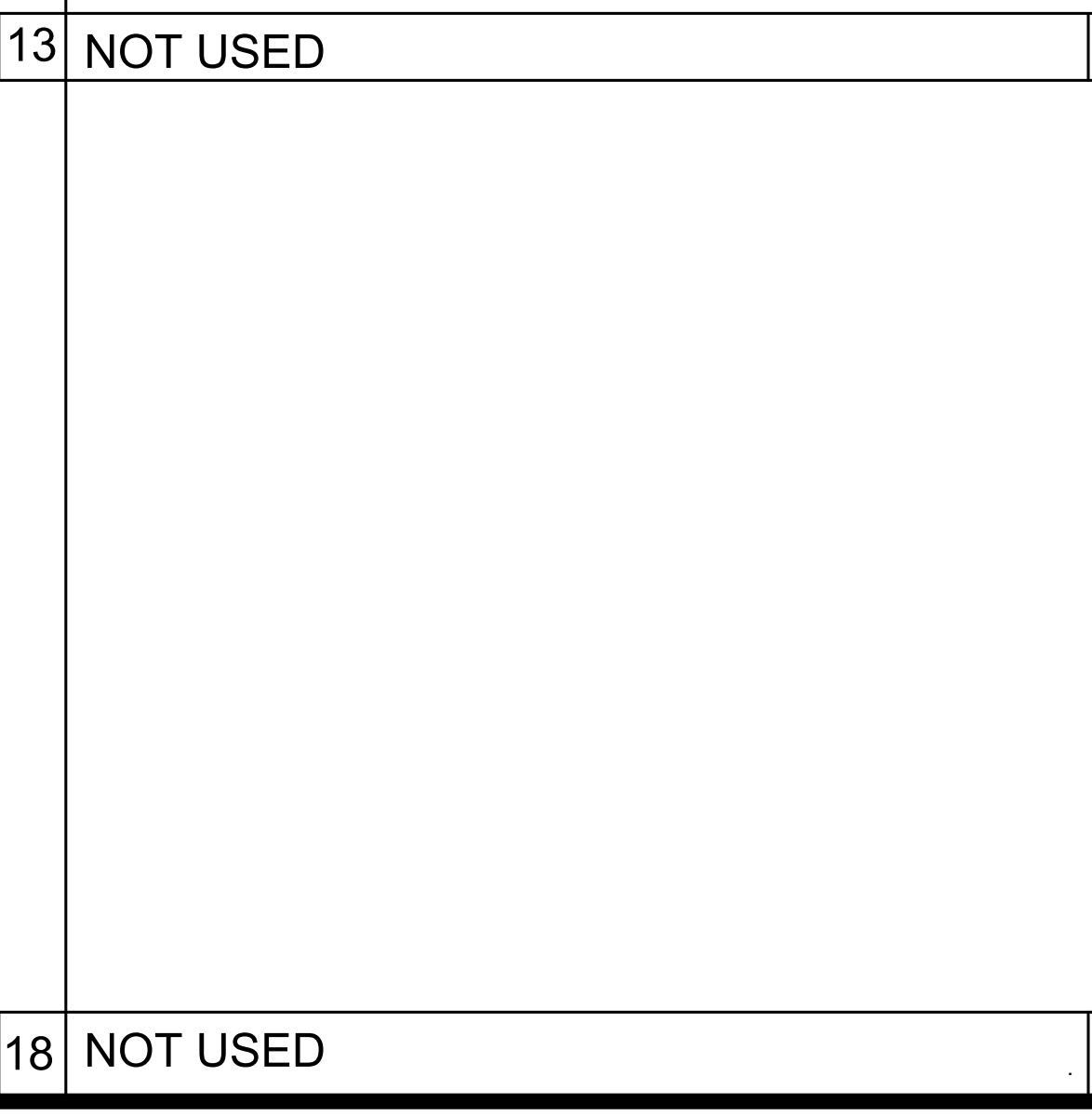
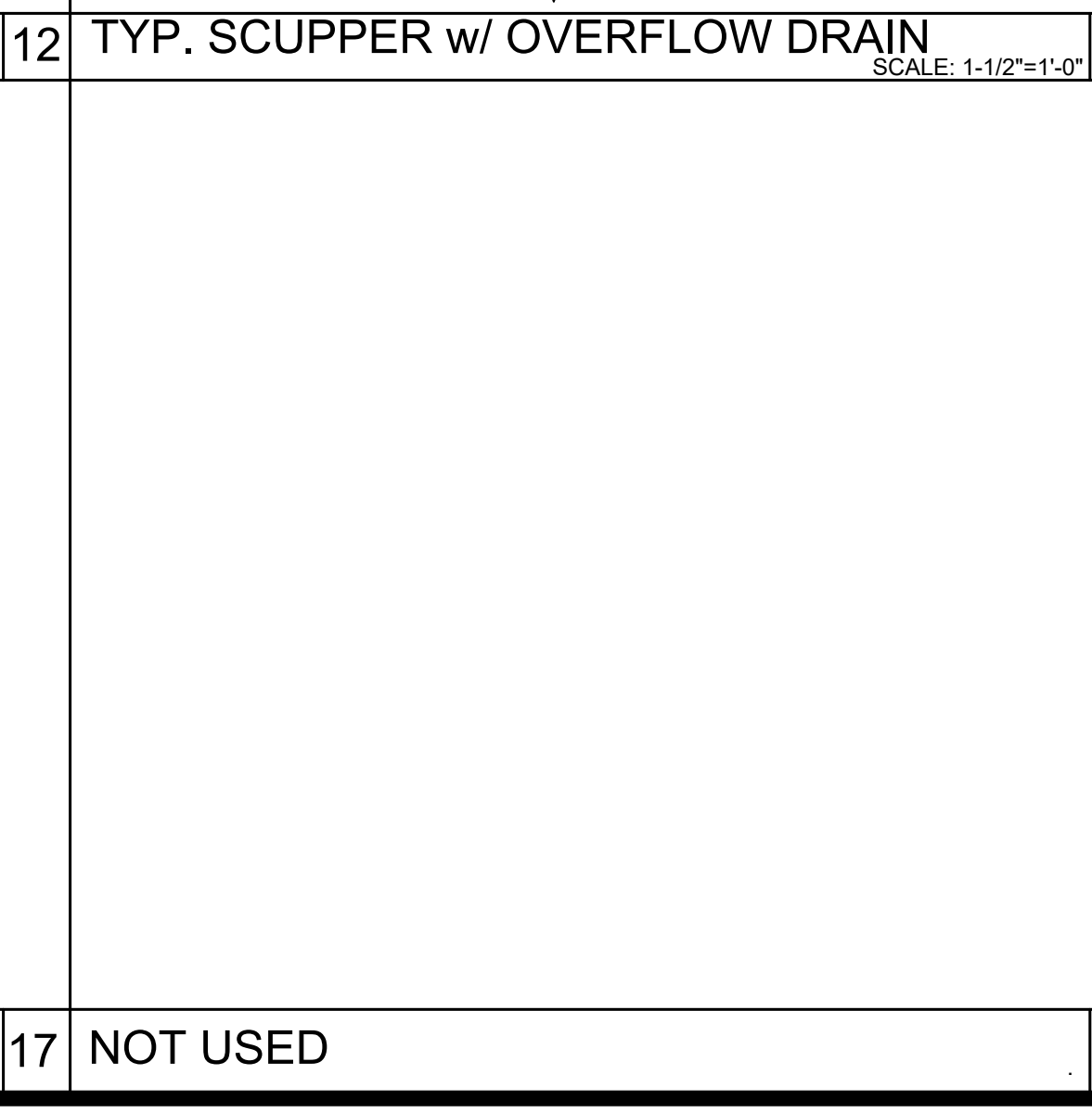
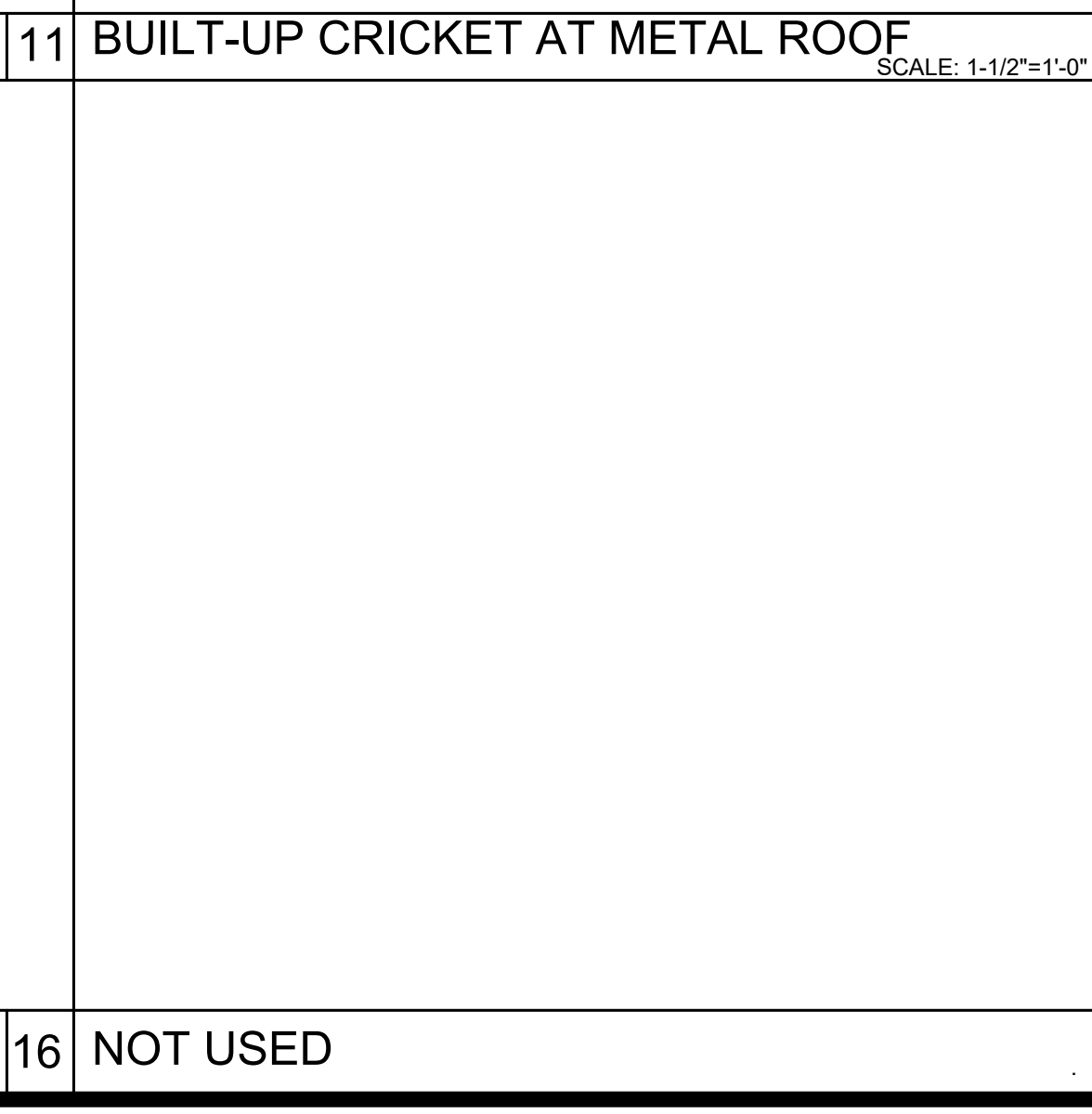
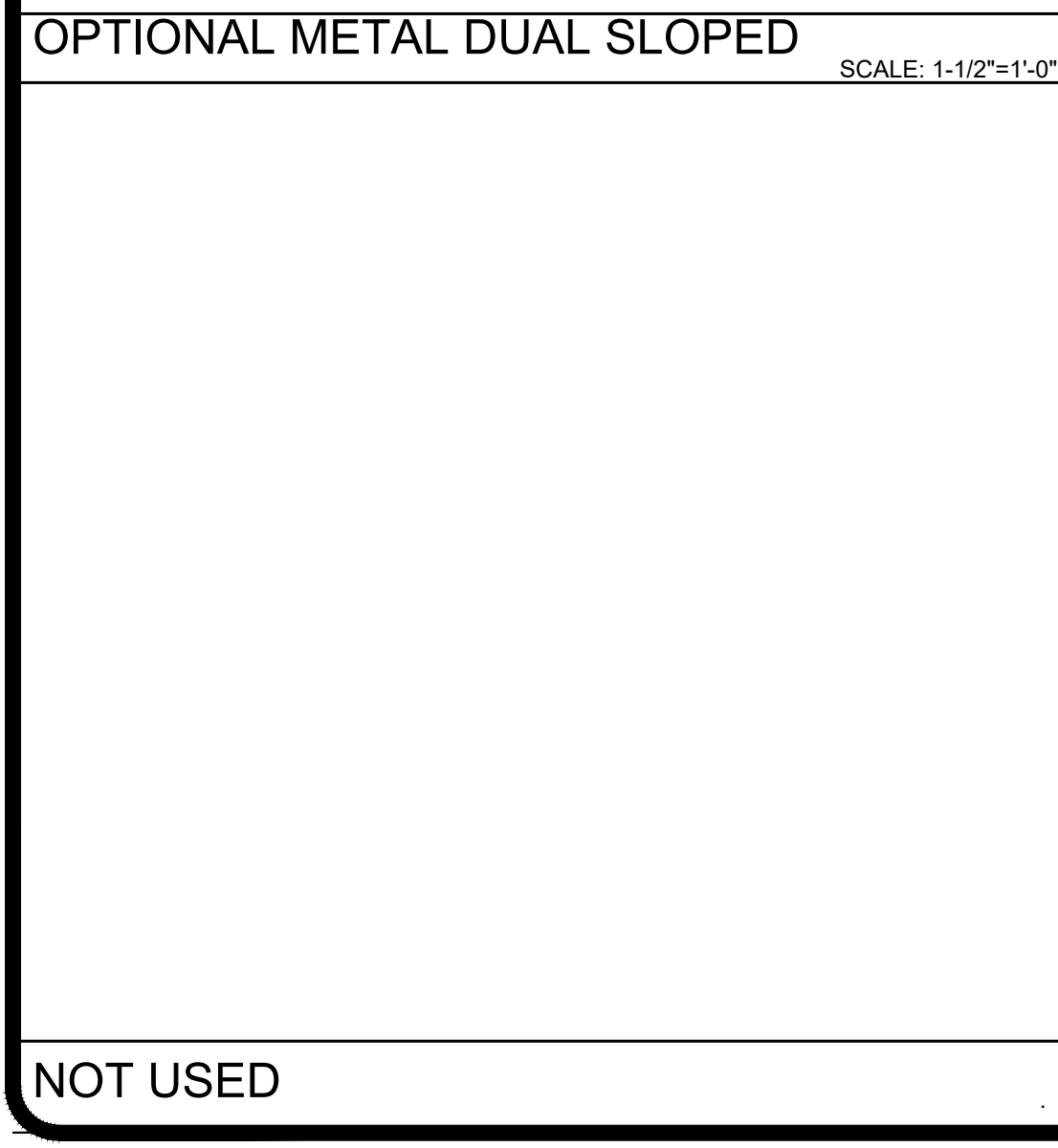
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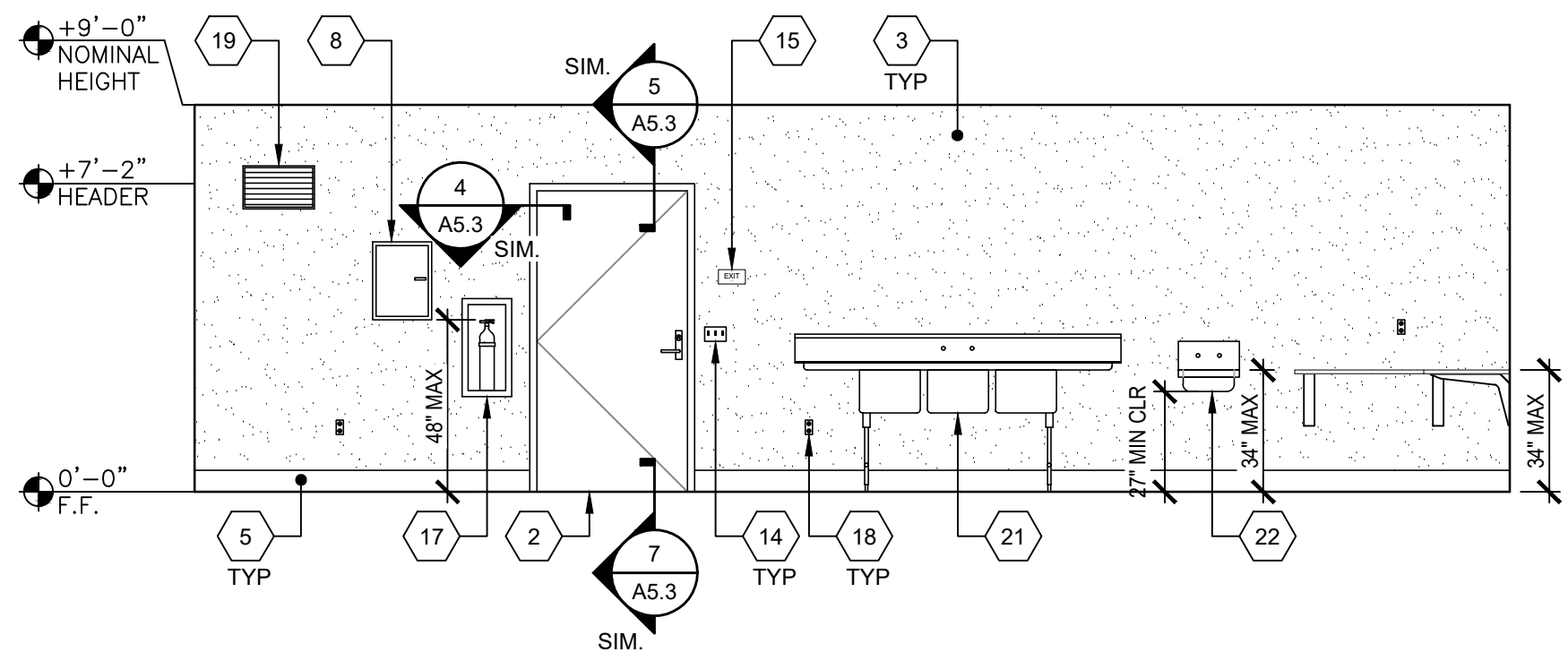
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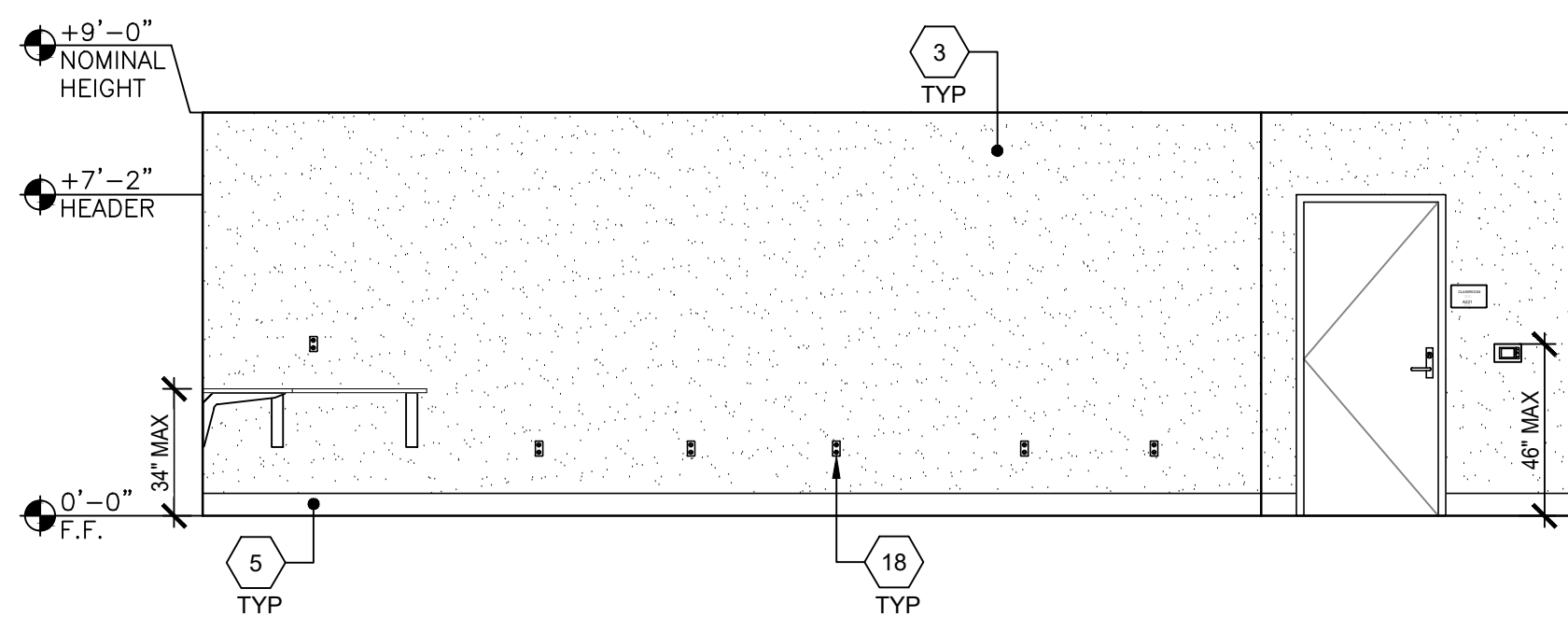


CONCESSION WALL ELEVATION

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

CONCESSION WALL ELEVATION

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

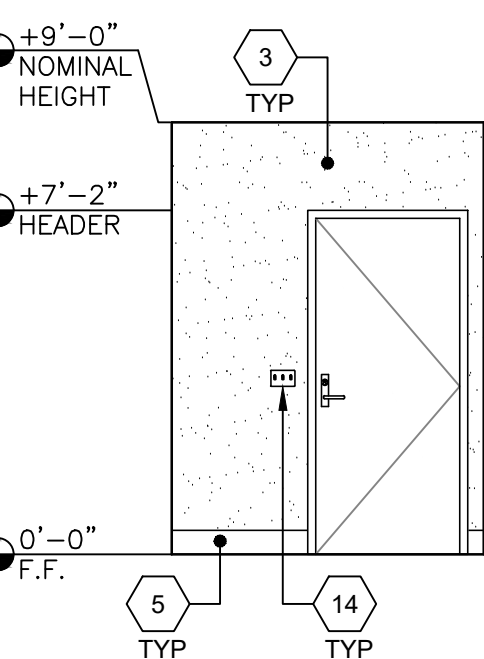


CONCESSION WALL ELEVATION

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

CONCESSION WALL ELEVATION

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

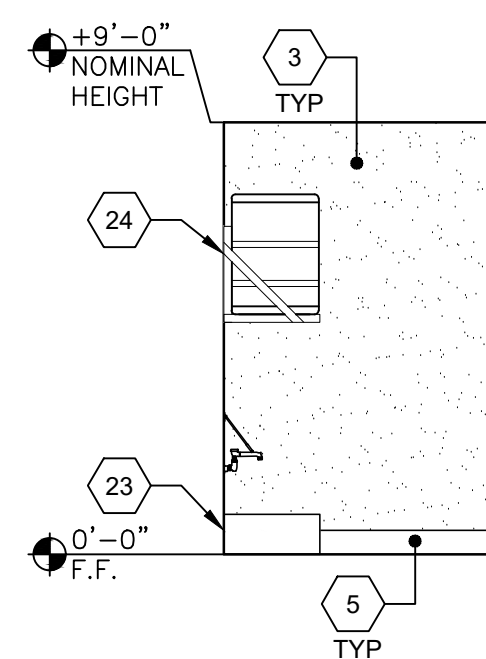


JANITOR WALL ELEVATION

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

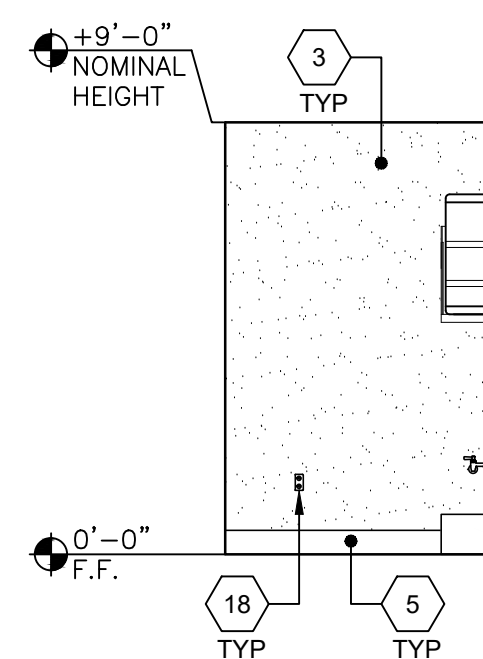
JANITOR WALL ELEVATION

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



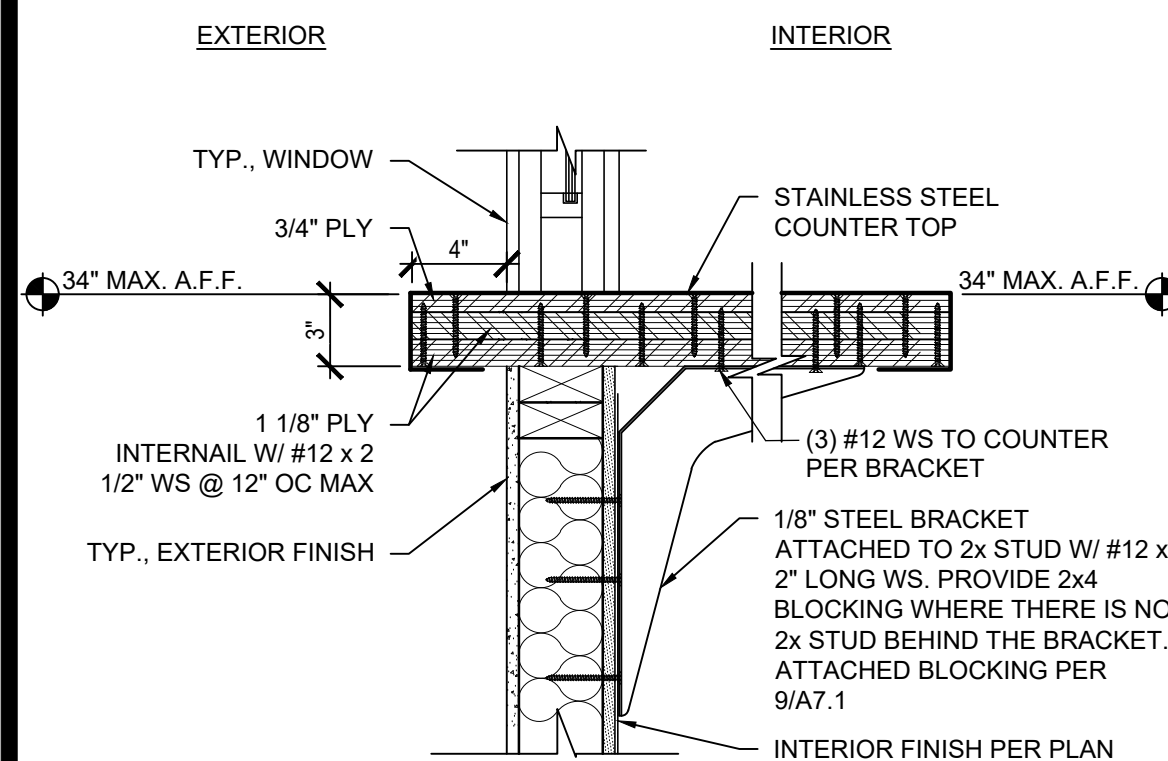
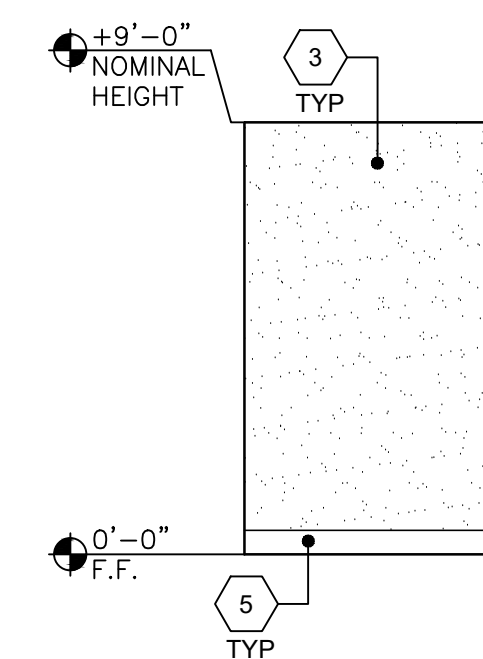
JANITOR WALL ELEVATION

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



JANITOR WALL ELEVATION

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



COUNTER ATTACHEMENT DETAIL

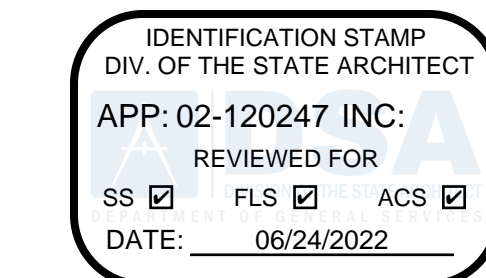
SCALE: N.T.S.

NOT USED

NOT USED

NOT USED

- 1 WINDOW, SEE SPECS
- 2 TYP EXTERIOR DOOR
- 3 F.R.P. (FIBER REINFORCED PLASTIC) - SHALL BE CLASS C RATED (ASTM E-84) EMBOSSED & SMOOTH INTERIOR WALL PANELS. NOMINAL PANEL THICKNESS SHALL BE ± 0.090" - PANEL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
- 4 NOT USED
- 5 6" TOP SET BASE - REFER TO DETAIL 19/A1.2
- 6 NOT USED
- 7 NOT USED
- 8 ELECTRICAL PANEL - SEE ELECTRICAL SHEETS
- 9 NOT USED
- 10 (2) 8"x4" MARKER BOARDS - SEE DETAIL 8/A4.0
- 11 CLOCK
- 12 ASSISTIVE LISTENING SIGN, BY OTHERS, INSTALLED PER DETAIL 17/N4.0 SIGN SHALL BE A MAXIMUM OF 70" A.F.F. TO BASELINE OF HIGHEST TEXT.
- 13 OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS)
- 14 LIGHT SWITCH - SEE ELECTRICAL SHEETS
- 15 EXIT TACTILE SIGN PER DETAIL 10/N4.0 (NIC)
- 16 THERMOSTAT, TOP @ 48" A.F.F. - SEE MECHANICAL SHEETS
- 17 RECESSED FIRE EXTINGUISHER TOP OF HANDLE @ 48" MAX. A.F.F. PROTRUSION MAX 4" FROM WALL IF BOTTOM OF FIRE EXTINGUISHER MORE THAN +27" A.F.F.
- 18 TYP DUPLEX OUTLET - SEE ELECTRICAL SHEETS
- 19 HVAC GRILL
- 20 HORN/STROBE J-BOX - SEE ELECTRICAL SHEETS
- 21 3-BIN SINK
- 22 STAINLESS STEEL HAND SINK
- 23 MOP SINK
- 24 WATER HEATER - REFER TO P1.0 & P2.0



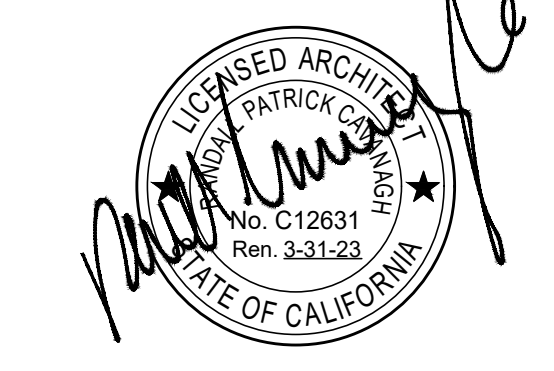
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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

SITE SPECIFIC PROJECT NAME
**CORCORAN JOINT USD
 KINGS LAKE EDUCATION CENTER
 (1) 12'x40' BUILDING**

2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

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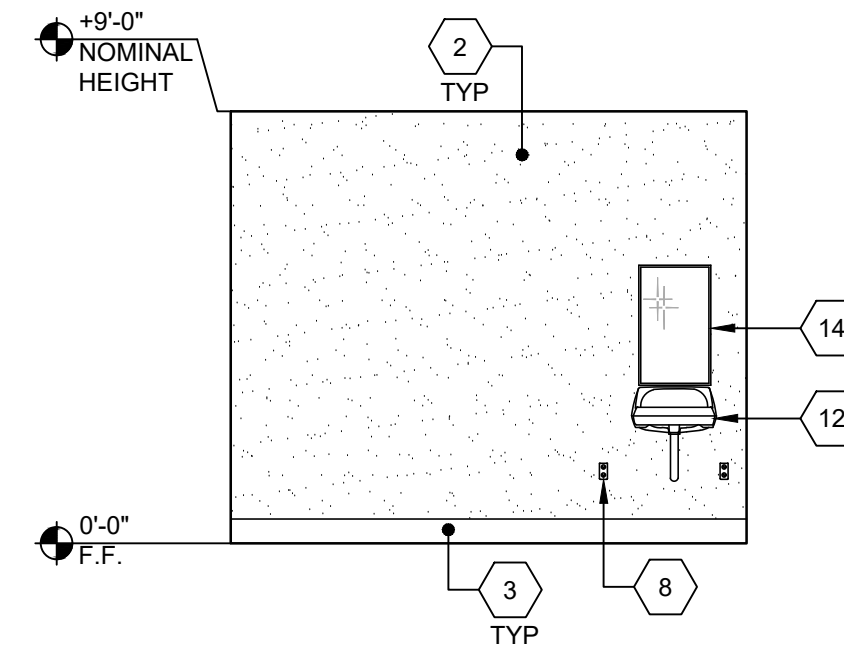
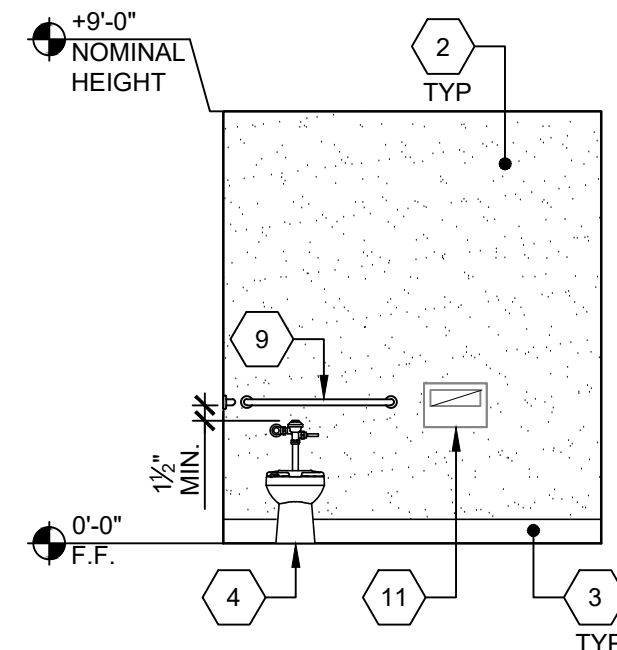
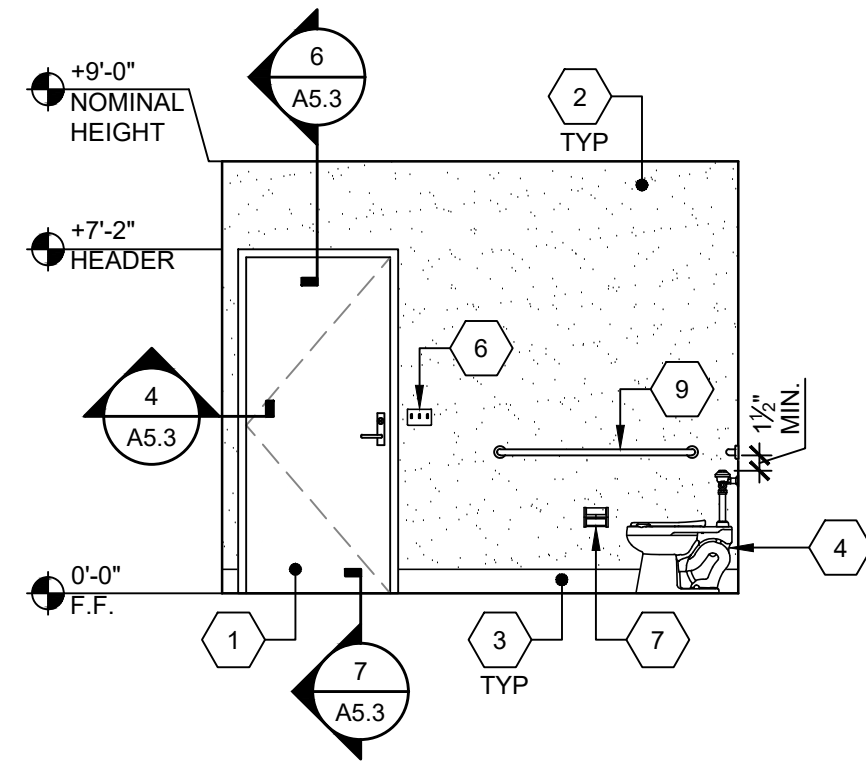
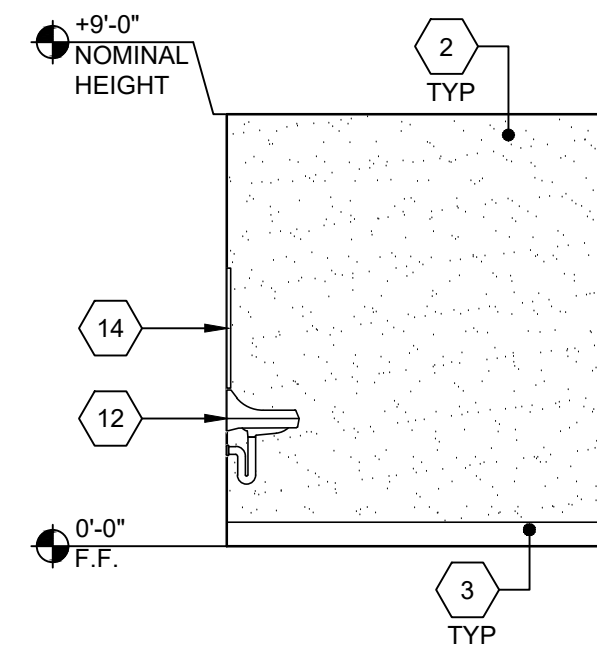
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REVISIONS

DRAWN BY: ABD
 SCALE: AS NOTED
 DATE: 06/20/21
 PROJECT NO: 1663-21

SHEET TITLE:
**INTERIOR ELEVATIONS
 TYPICAL CLASSROOM**

SHEET NUMBER:
A4.0



UNISEX R.R. WALL ELEVATION

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

1

UNISEX R.R. WALL ELEVATION

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

2

UNISEX R.R. WALL ELEVATION

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

3

UNISEX R.R. WALL ELEVATION

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

4

NOT USED

5

NOT USED

6

NOT USED

7

NOT USED

8

KEY NOTES

NOT USED

9

NOT USED

10

NOT USED

11

NOT USED

12

NOT USED

13

NOT USED

14

NOT USED

15

- 1 TYPICAL DOOR
- 2 F.R.P. (FIBER REINFORCED PLASTIC) - SHALL BE CLASS C RATED (ASTM E-84) EMBOSSED & SMOOTH INTERIOR WALL PANELS. NOMINAL PANEL THICKNESS SHALL BE ± 0.090 - PANEL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
- 3 6" TOP SET BASE - REFER TO DETAIL 5/A1.2
- 4 ACCESSIBLE TOILET - SEE DETAIL 14/P2.0
- 5 HORN/STROBE J-BOX - SEE ELECTRICAL SHEETS
- 6 LIGHT SWITCH - SEE ELECTRICAL SHEETS
- 7 TOILET PAPER DISPENSER MOUNT PER P1.0
- 8 TYP. GFCI OUTLET - SEE ELECTRICAL SHEETS
- 9 GRAB BAR - SEE DETAIL 6/A7.1
- 10 ACCESSIBLE URINAL - SEE DETAIL 16/P2.0
- 11 TOILET SEAT COVER DISPENSER MOUNT PER P1.0
- 12 ACCESSIBLE LAVATORY - SEE DETAIL 17/P2.0
- 13 TOILET PARTITIONS - SOLID PLASTIC BY ACCURATE PARTITIONS CORP. - OR EQUIVALENT, w/ FLOOR ANCHORS - OVERHEAD BRACED OR EQUIVALENT. - MINIMUM FLAME SPREAD RATING: 50. - MINIMUM SMOKE DEVELOPMENT RATING: 450. - (BY OTHERS)
- 14 TYP. MIRROR (19" MAX. WEIGHT) - SEE DETAIL 17/P2.0
- 15 WINDOW - SEE SPEC'S

NOTE: FOR ACCESSIBLE FIXTURES & ACCESSORIES MOUNTING HEIGHT REQUIREMENTS (PER CBC CHAPTER 11B), SEE SHEET P2.0, DETAIL 10. AGE 13 THRU ADULT IS DEPICTED.

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REVIEWED FOR
SS FLS ACS
DATE: 06/24/2022



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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING



SITE SPECIFIC PROJECT NAME
CORCORAN JOINT USD
KINGS LAKE EDUCATION CENTER
(1) 12'x40' BUILDING

2019 CBC PRE-CHECK (PC) DOCUMENT
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REVISIONS

DRAWN BY: ABD
SCALE: AS NOTED
DATE: 04/25/21
PROJECT NO: 1663-21

SHEET TITLE:
INTERIOR ELEVATIONS
RESTROOM
OPTIONS

SHEET NUMBER:
A4.1

NOT USED

12

NOT USED

13

NOT USED

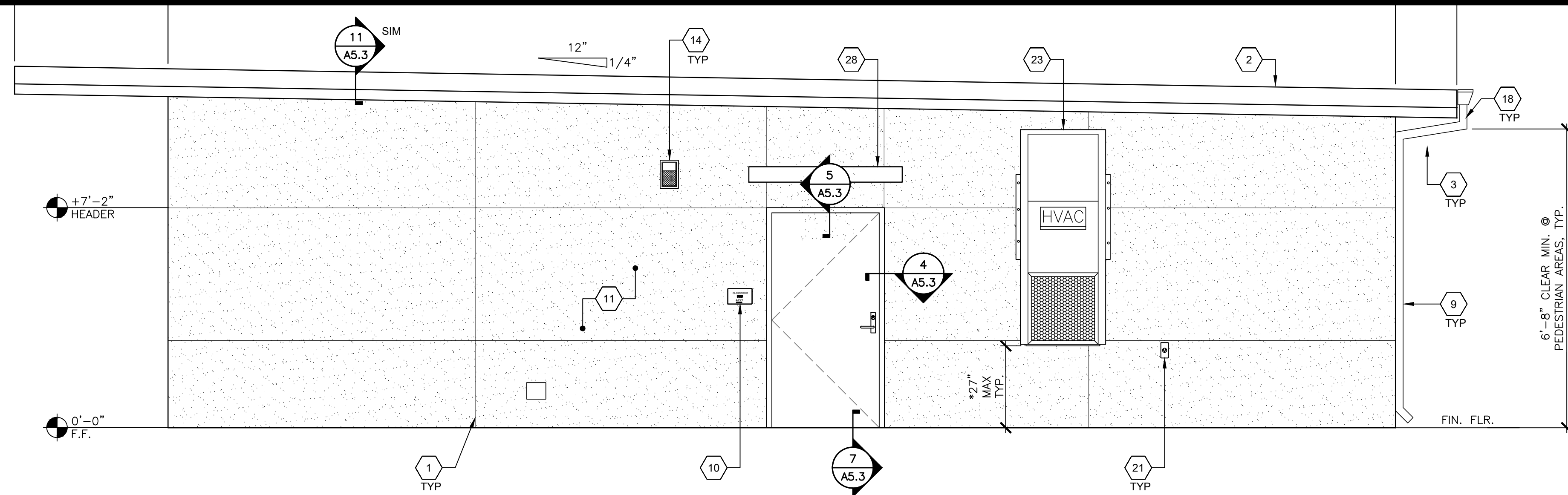
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NOT USED

15

NOT USED

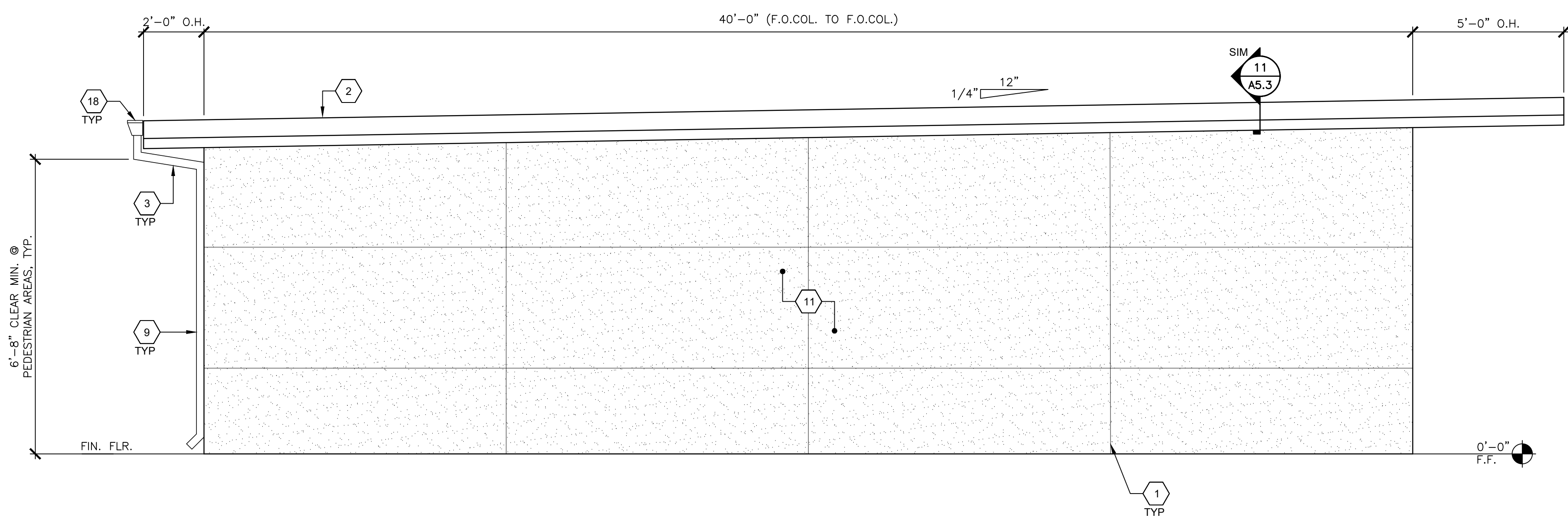
16



FRONT SIDEWALL EXTERIOR ELEVATION

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

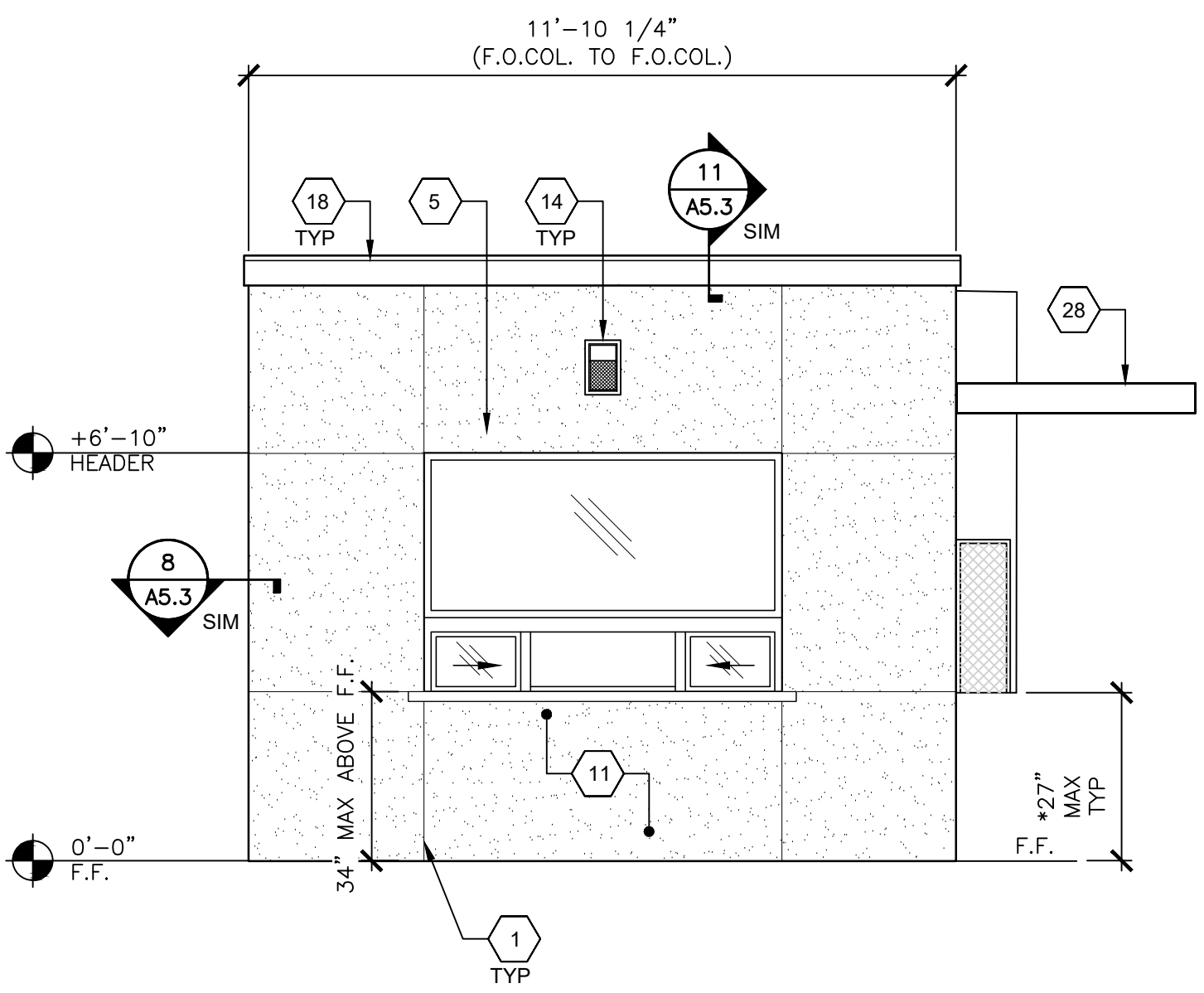
1



REAR SIDEWALL EXTERIOR ELEVATION

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

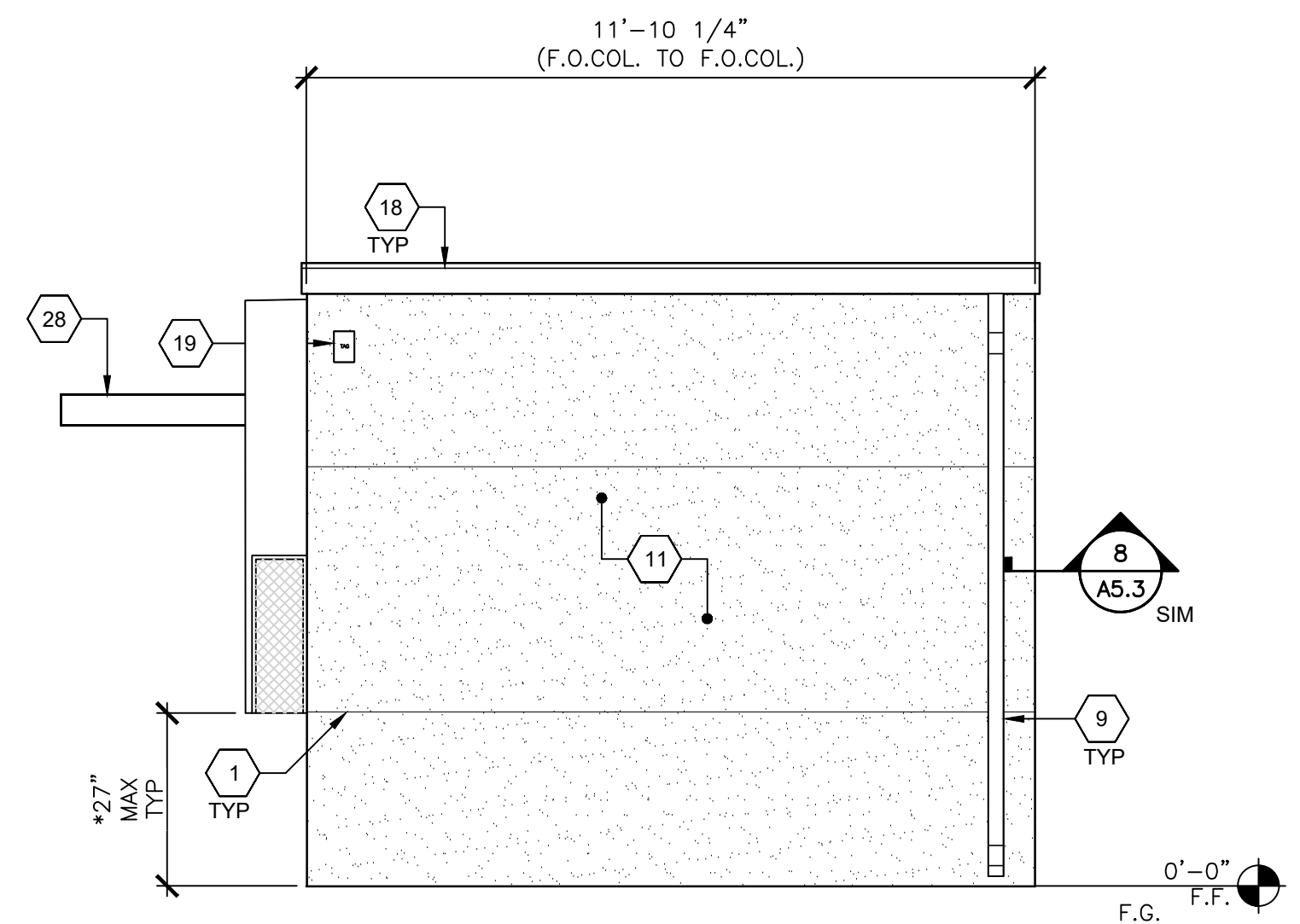
2



ENDWALL EXTERIOR ELEVATION

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

3



ENDWALL EXTERIOR ELEVATION

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

4

- 1 CONTROL JOINT (LOCATION MAY VARY)
- 2 STANDING SEAM METAL ROOFING
- 3 OVERHANG - (SEE STRUCTURAL)
- 4 TYP EXTERIOR DOOR - (SEE SCHEDULE)
- 5 WINDOW - (SEE SCHEDULE)
- 6 NOT USED
- 7 ELECTRICAL PANEL - LOCATION MAY VARY -
- 8 NOT USED
- 9 DOWNSPOUT SEE DETAIL 8/A5.3 FOR ATTACHMENT
- 10 ROOM ID AND ISA SIGNAGE (BY OTHER) SEE DETAILS 1-9/N4.0 - TYP.
- 11 STUCCO FINISH SITE APPLIED BY STE CONTRACTOR
- 12 NOT USED
- 13 NOT USED
- 14 EXTERIOR LIGHT - (SEE ELECTRICAL)
- 15 NOT USED
- 16 NOT USED
- 17 NOT USED
- 18 GUTTER - (SEE SHEET 5/A2.1)
- 19 MODULAR IDENTIFICATION TAG +90" ABOVE A.F.F.
- 20 FIRE ALARM HORN - (REFER TO ELECTRICAL PLANS)
- 21 WP/G.F.C.I. @ HVAC UNITS - (REFER TO ELECTRICAL PLANS)
- 22 DUAL SLOPE OPTION -
- 23 HVAC UNIT
- 24 NOT USED
- 25 SHEET METAL FLASHING PAINTED BODY COLOR
- 26 NOT USED
- 27 OPTIONAL DOOR MAY OCCUR -
- 28 AWNING - SEE SHEET S5.4A

KEY NOTES

IDENTIFICATION STAMP
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 APP: 02-120247 INC:
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 DATE: 06/24/2022

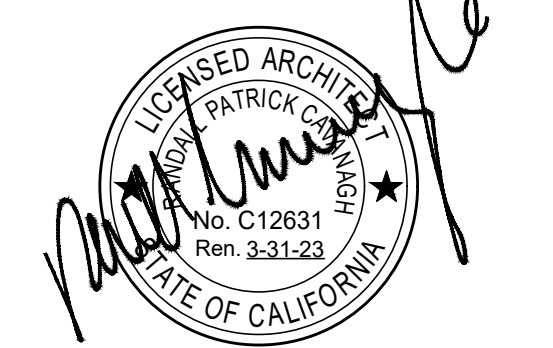
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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING
FORM

SITE SPECIFIC PROJECT NAME
**CORCORAN JOINT USD
 KINGS LAKE EDUCATION CENTER
 (1) 12'x40' BUILDING**

2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
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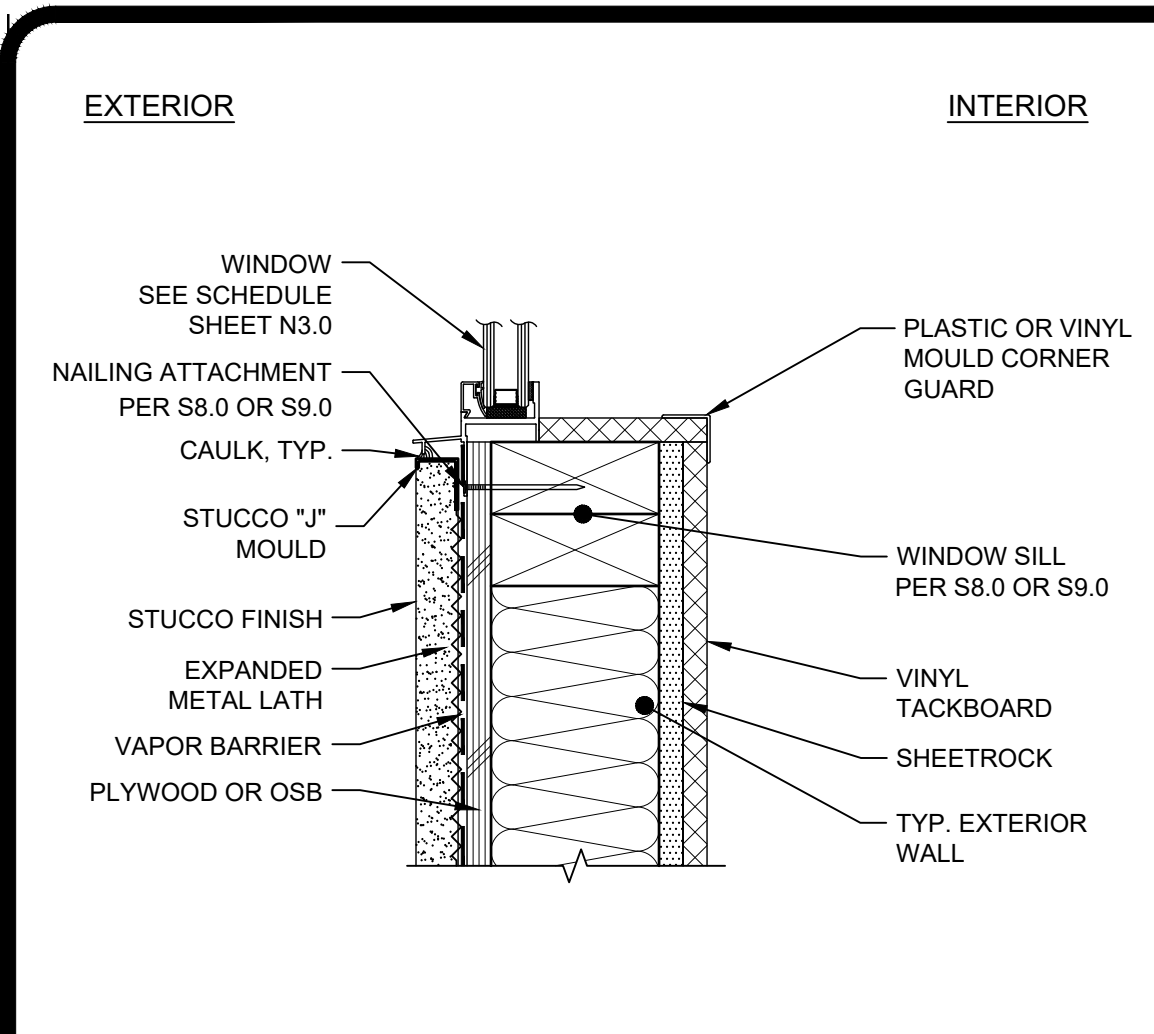
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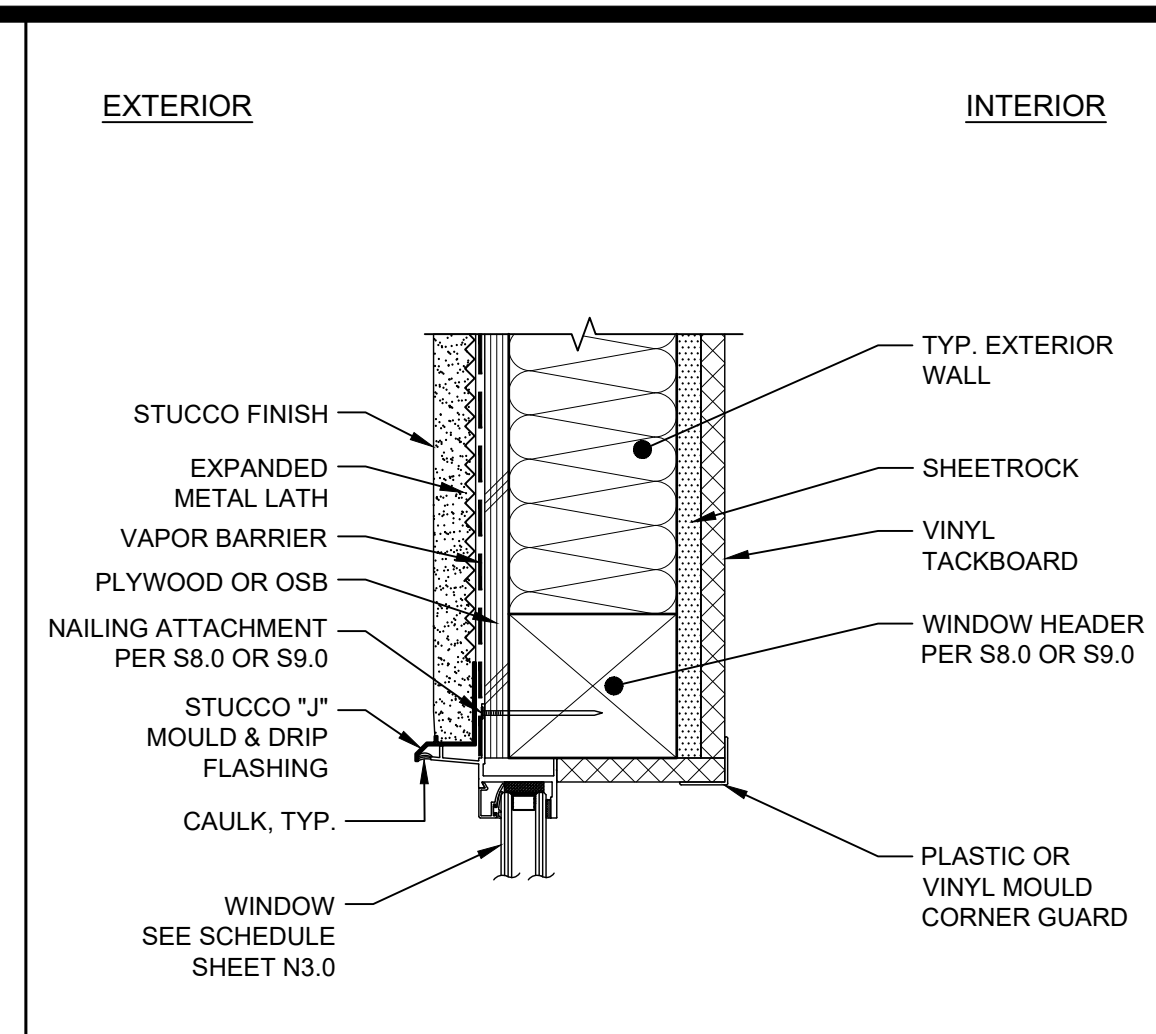
DRAWN BY: ABD
 SCALE: AS NOTED
 DATE: 04/25/21
 PROJECT NO: 1663-21

SHEET TITLE:
**TYP. EXTERIOR ELEVATIONS
 - STUCCO OPTION**

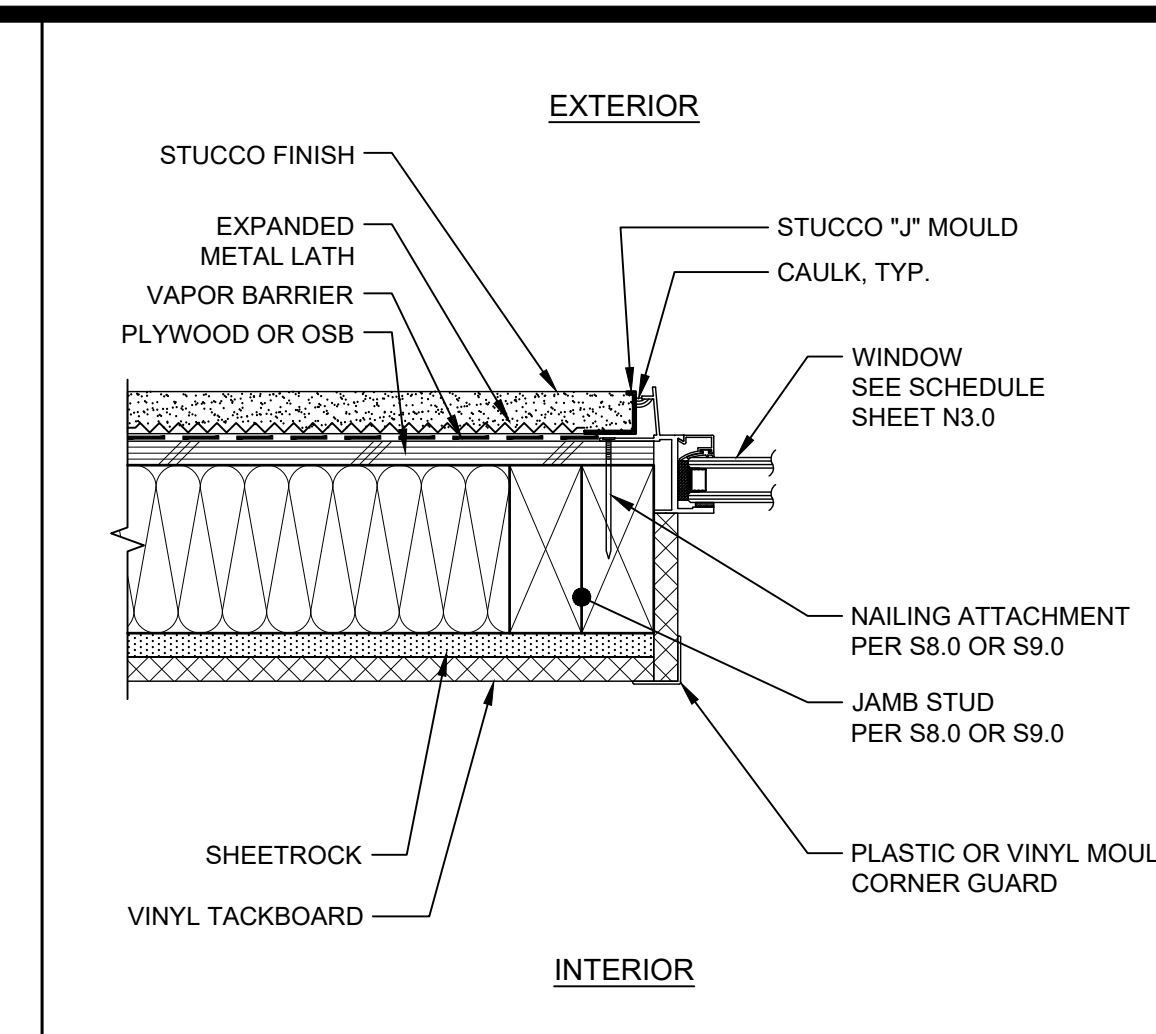
SHEET NUMBER:
A5.2



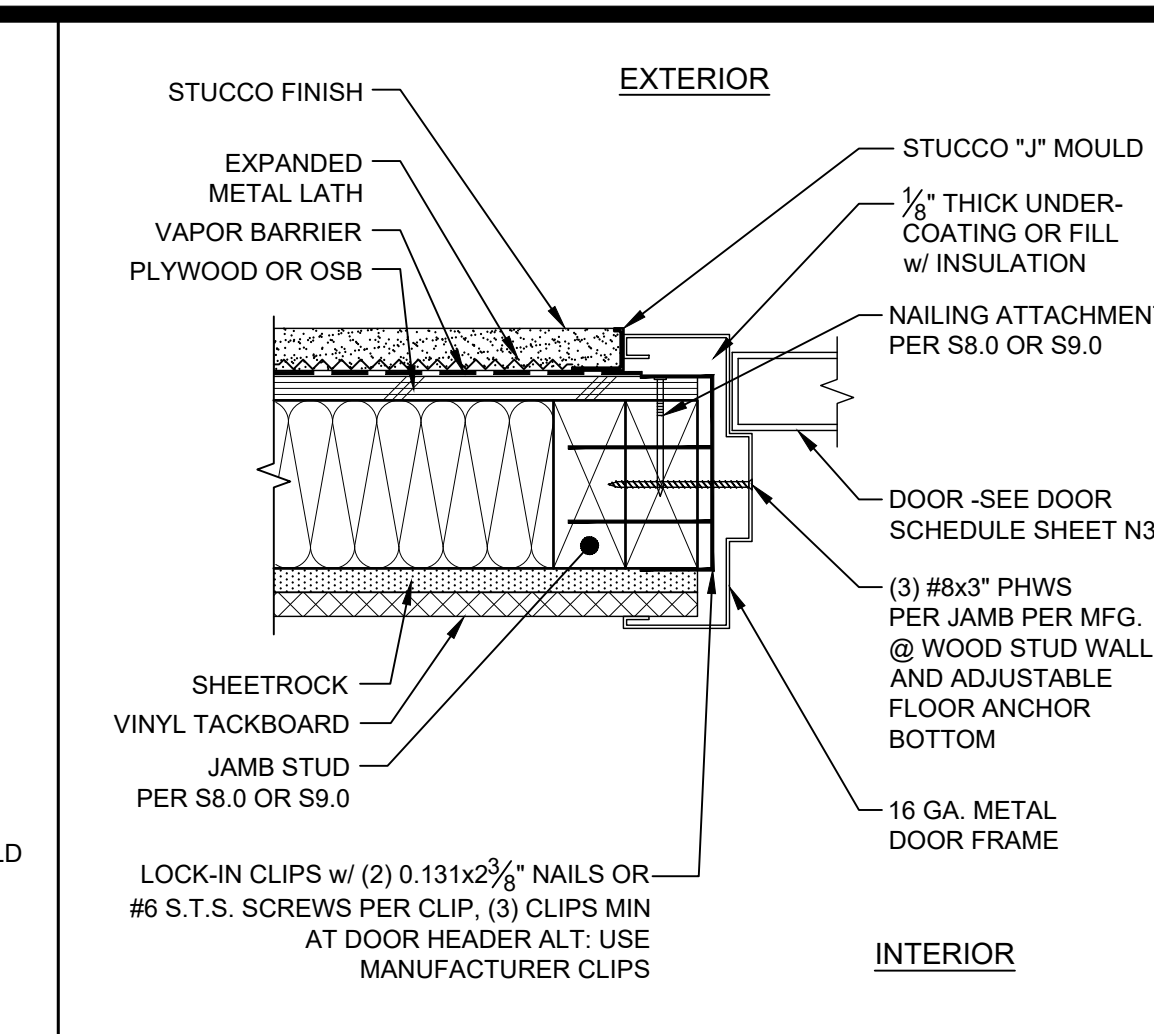
TYPICAL WINDOW SILL SCALE: 3" = 1'-0" 1



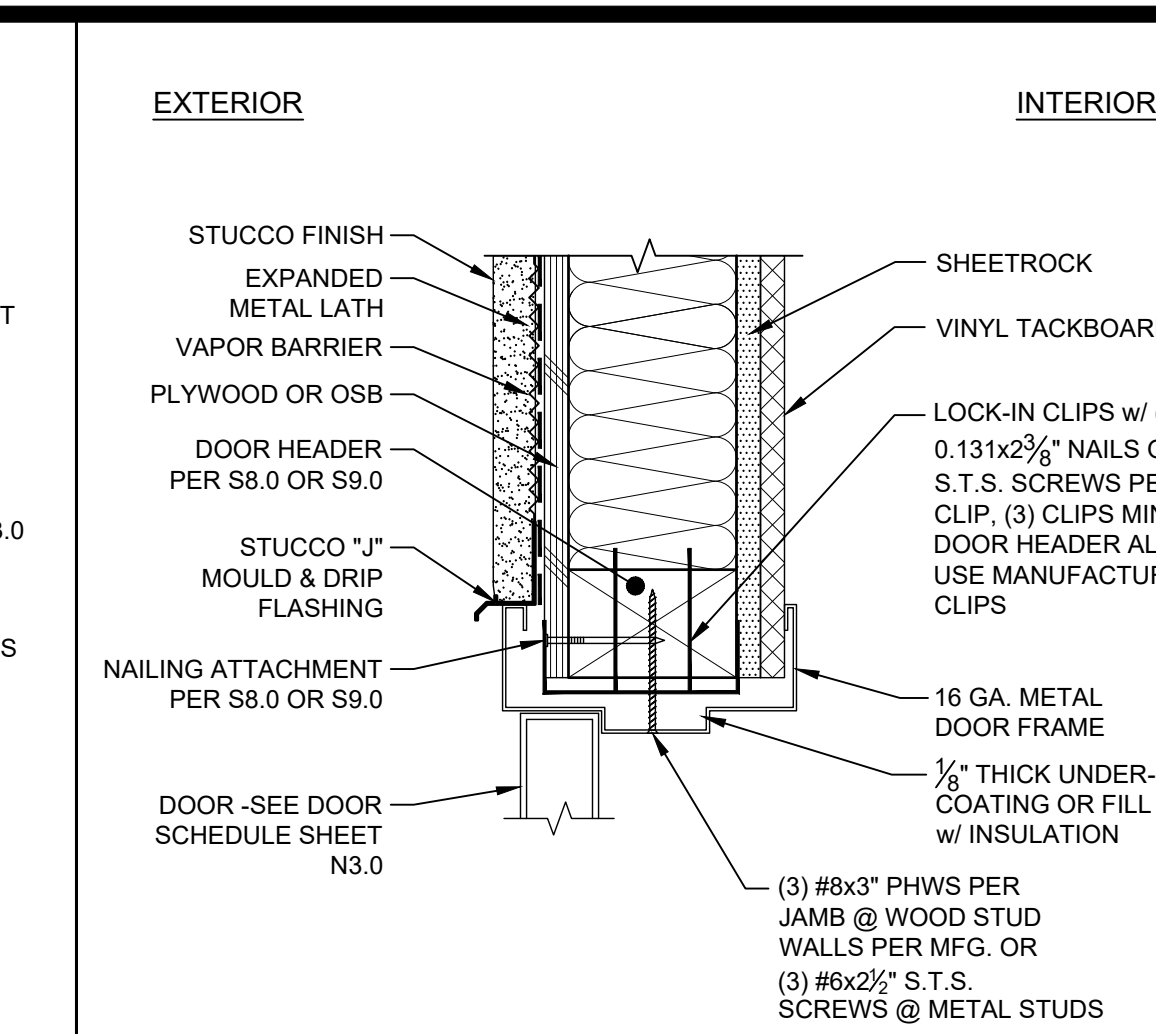
TYPICAL WINDOW HEADER SCALE: 3" = 1'-0" 2



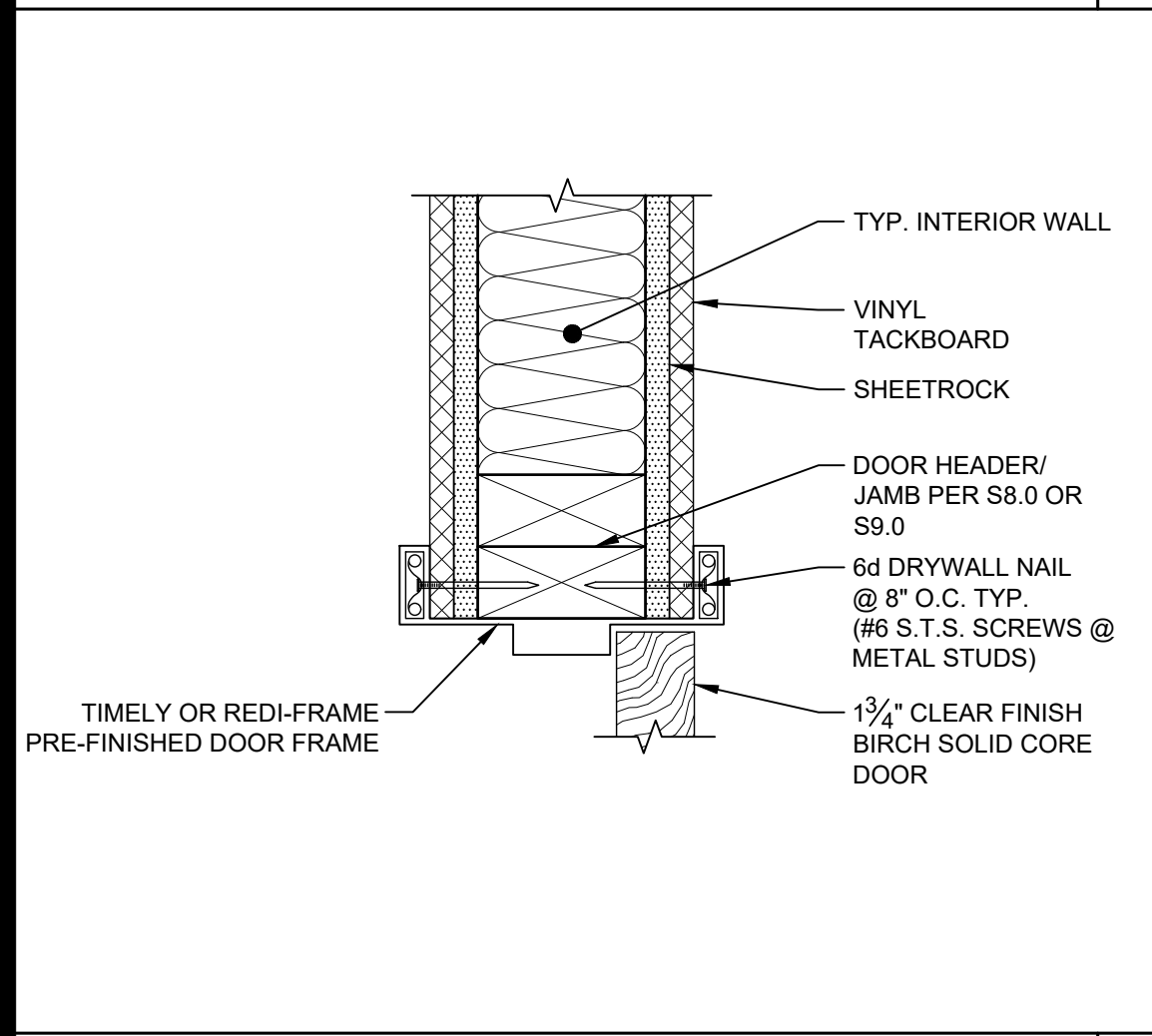
TYPICAL WINDOW JAMB SCALE: 3" = 1'-0" 3



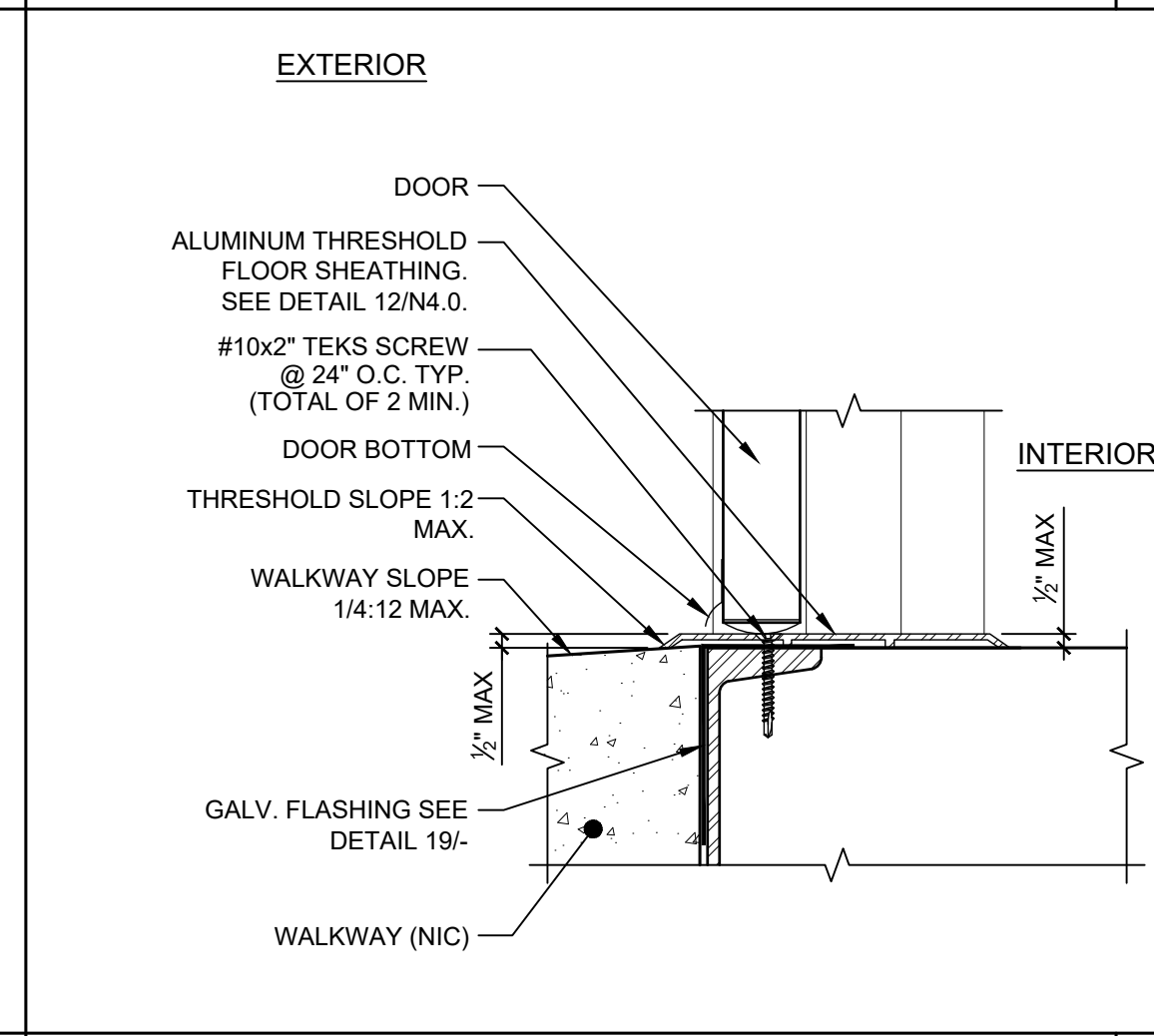
TYPICAL DOOR JAMB SCALE: 3" = 1'-0" 4



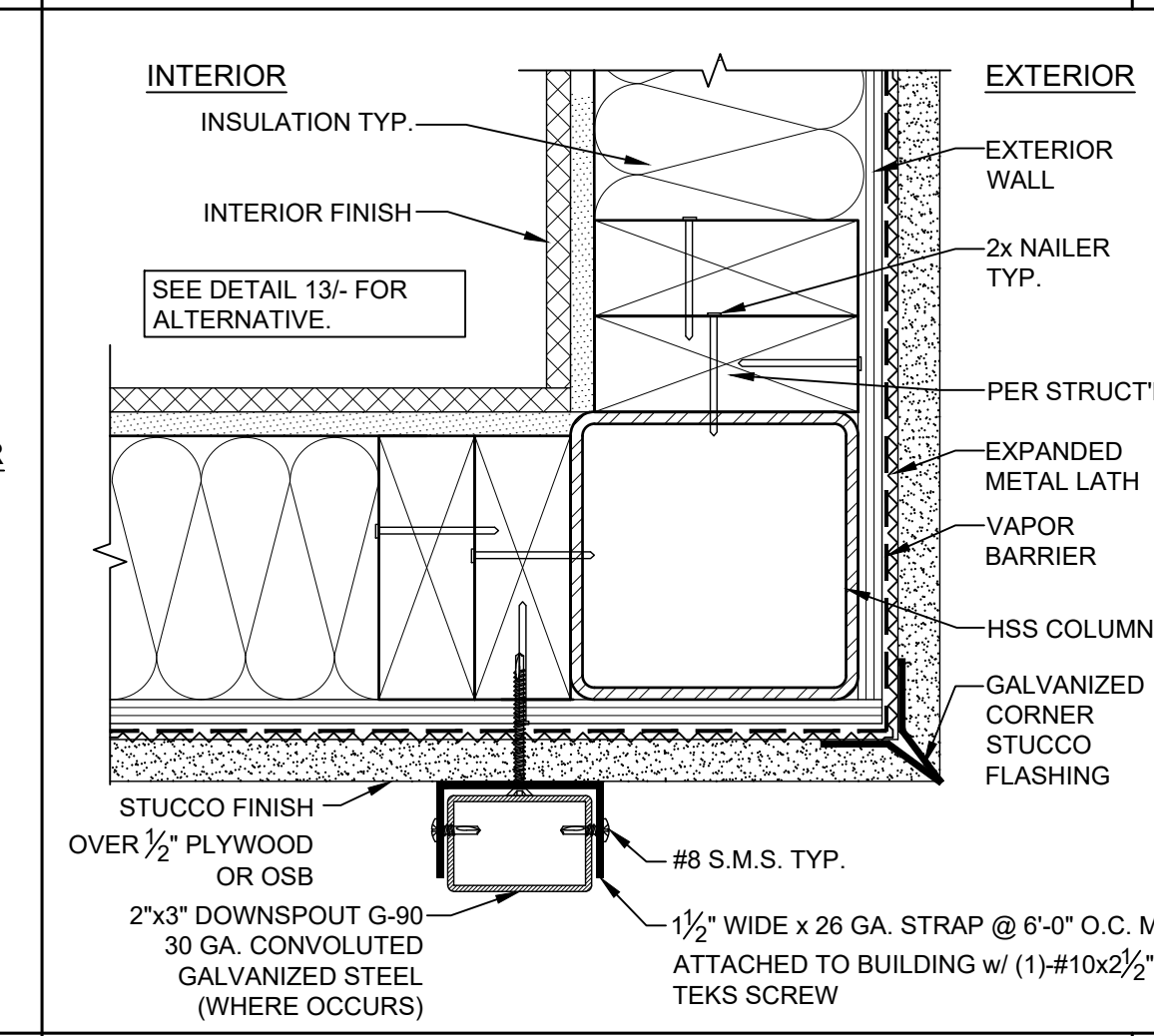
TYPICAL DOOR HEADER SCALE: 3" = 1'-0" 5



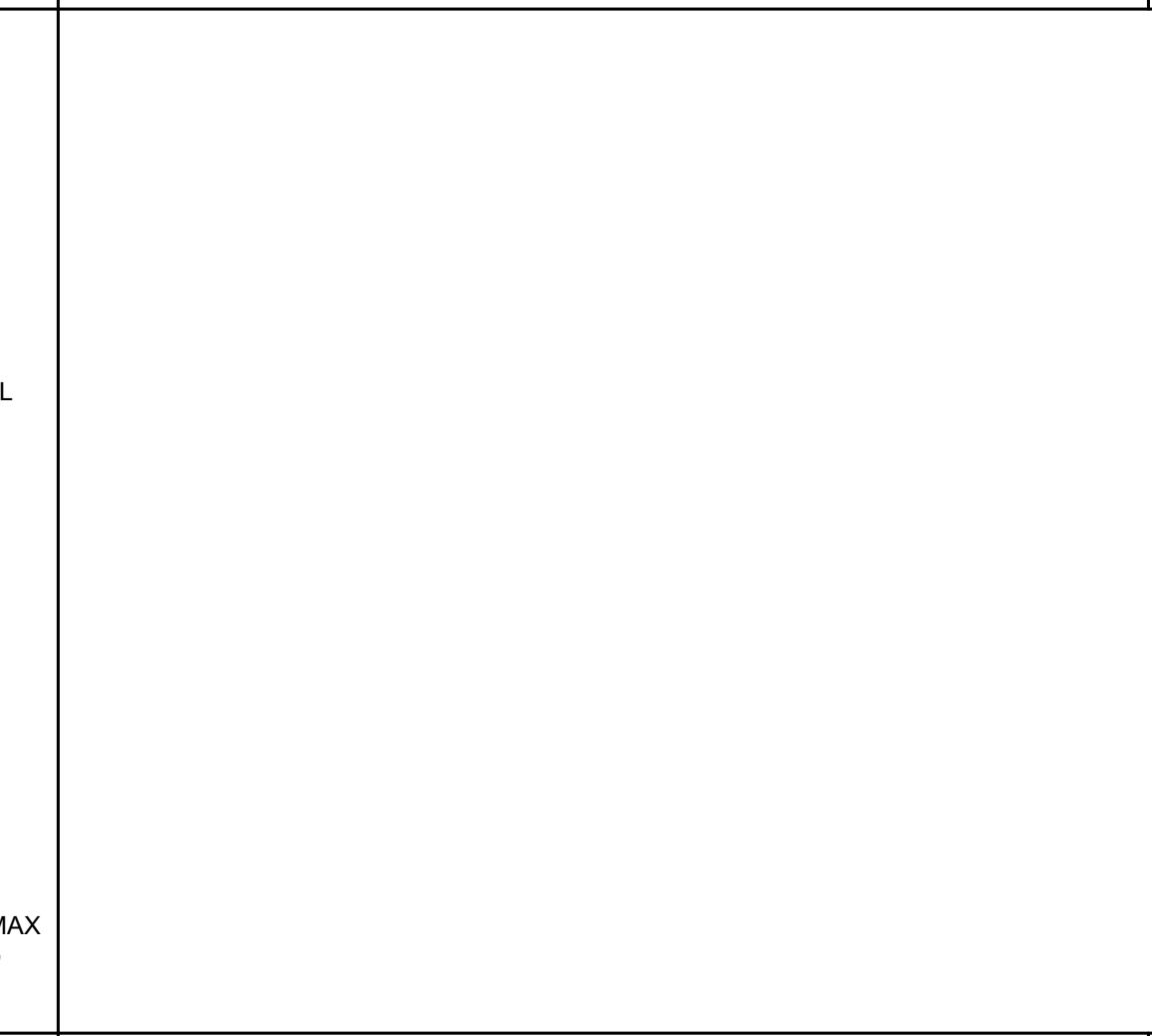
TYP. INTERIOR DOOR HEADER/JAMB SCALE: 3" = 1'-0" 6



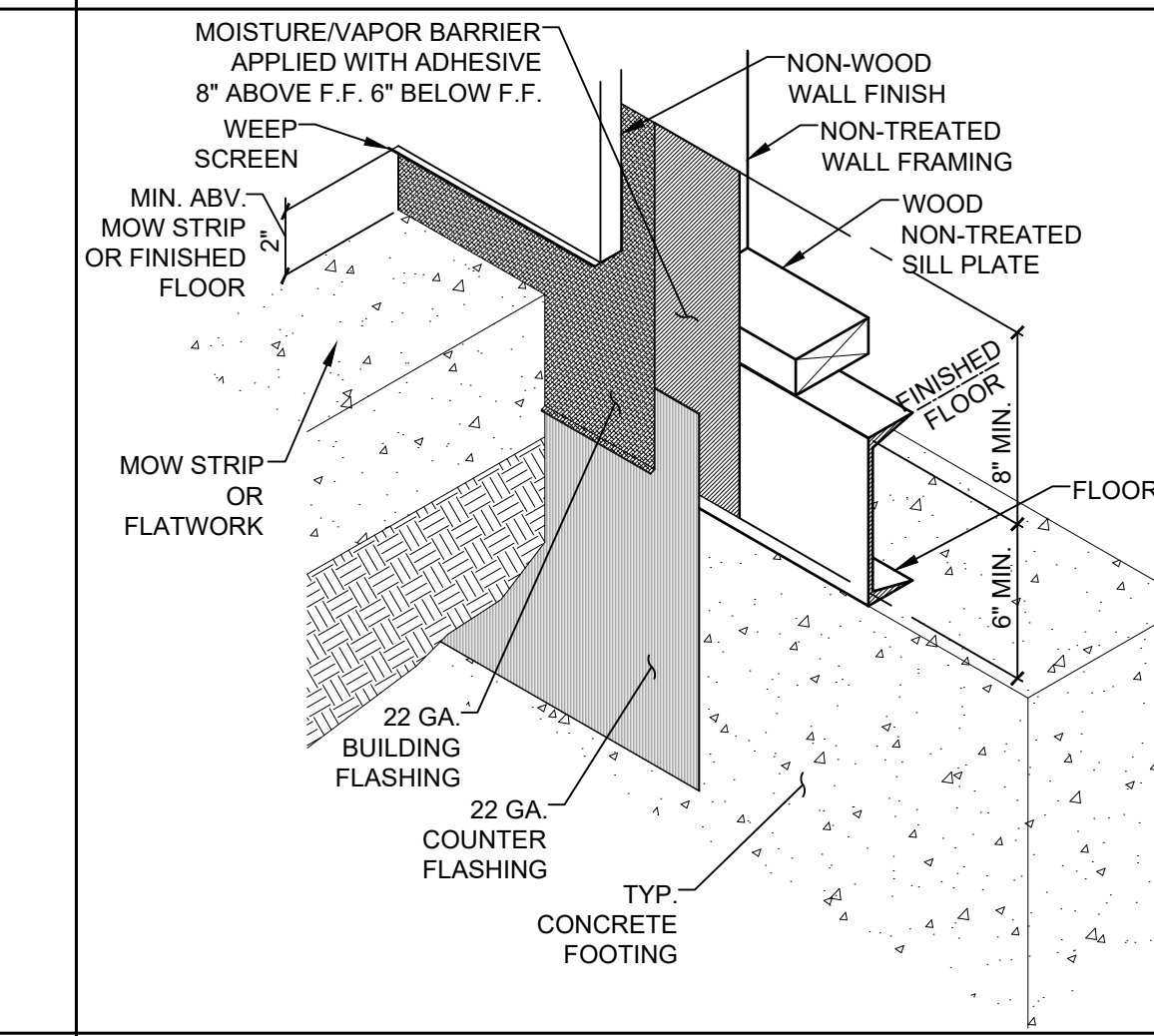
TYPICAL THRESHOLD DETAIL SCALE: 3" = 1'-0" 7



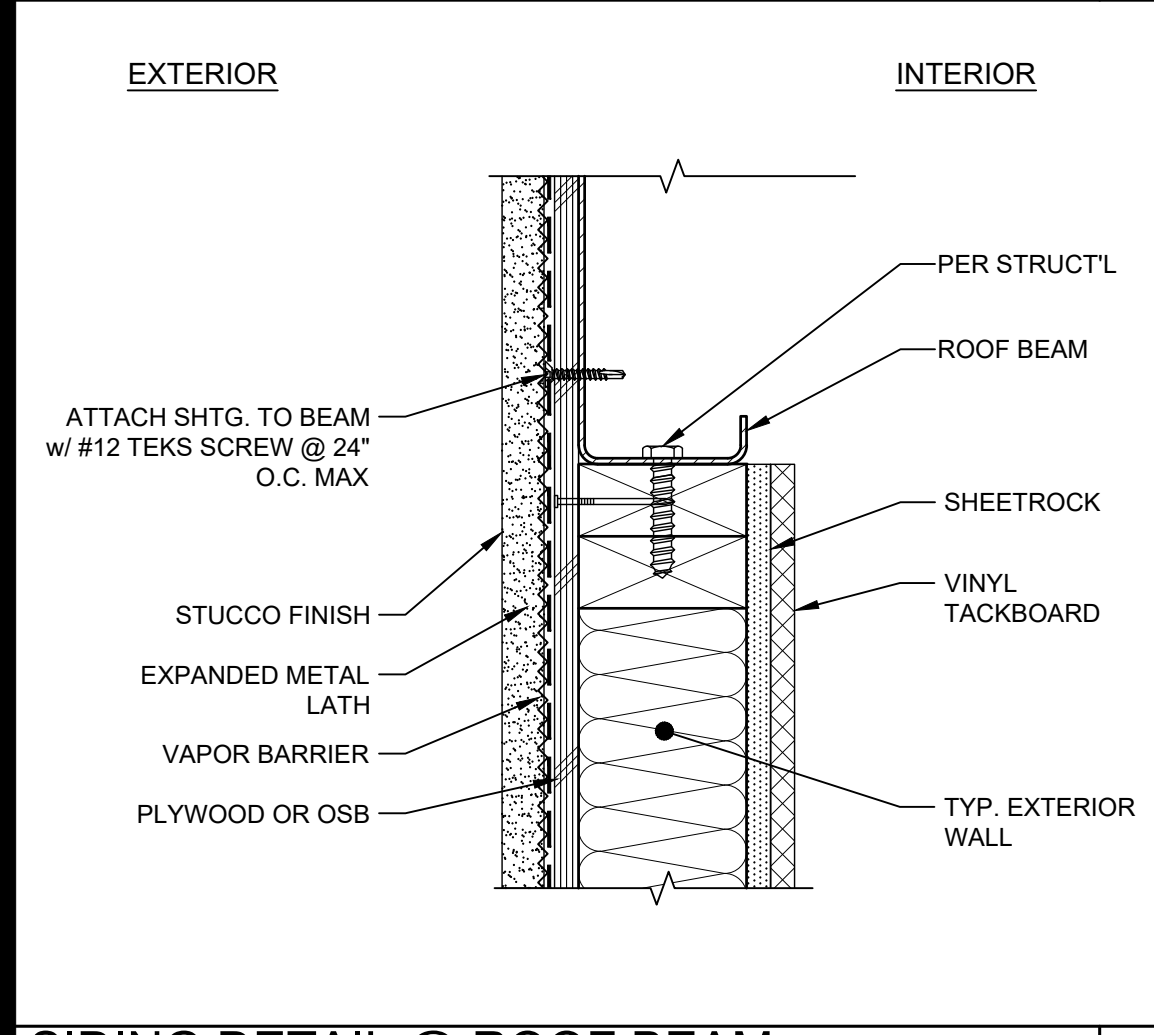
TYP. BLDG CORNER & DOWNSPOUT ATTACHMENT DETAIL SCALE: 3" = 1'-0" 8



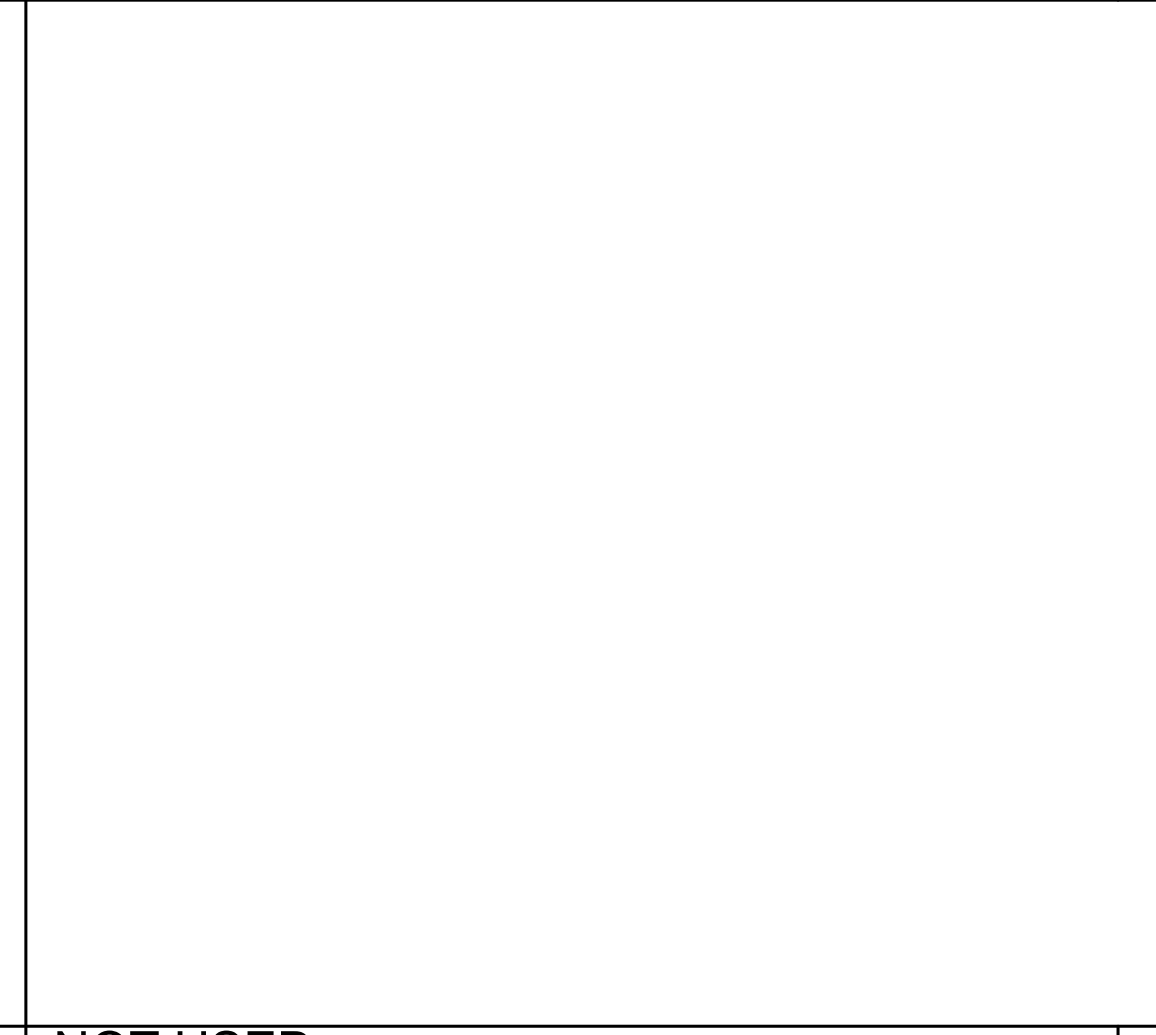
NOT USED 9



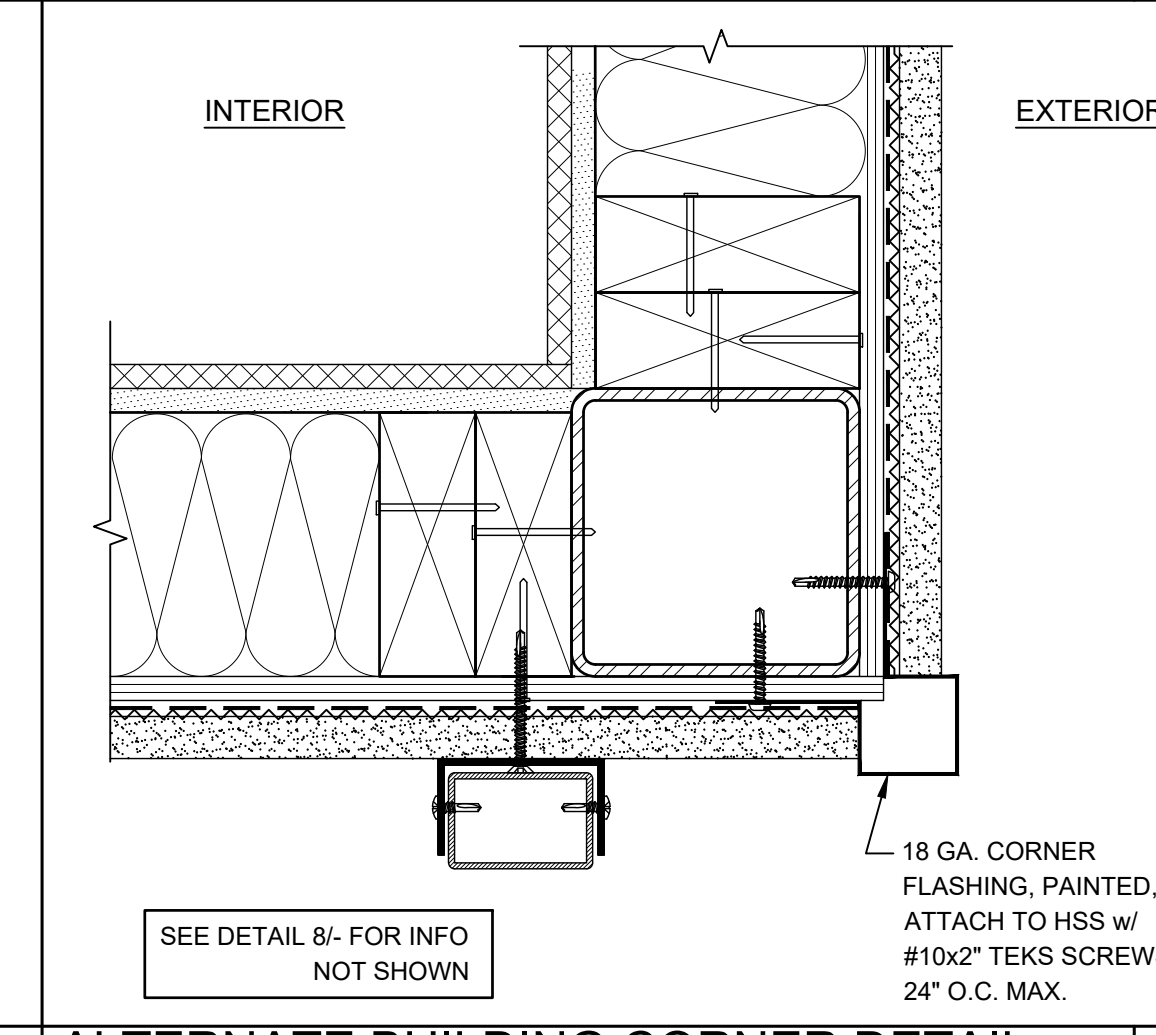
ISOMETRIC FLASHING DETAIL FOR BUILDINGS 2160 SQ. FT. OR LESS SCALE: 1 1/2" = 1'-0" 10



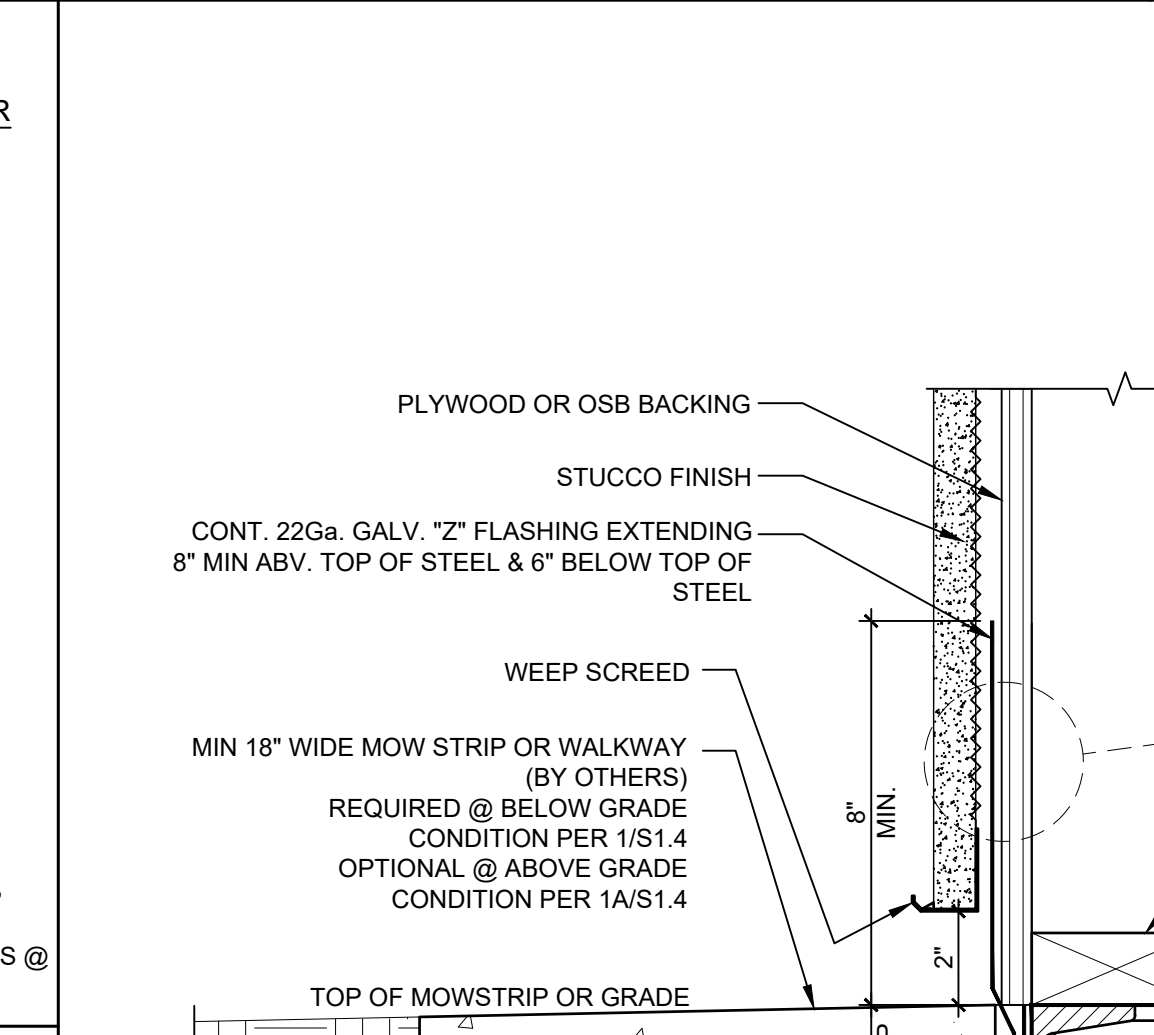
SIDING DETAIL @ ROOF BEAM SCALE: 3" = 1'-0" 11



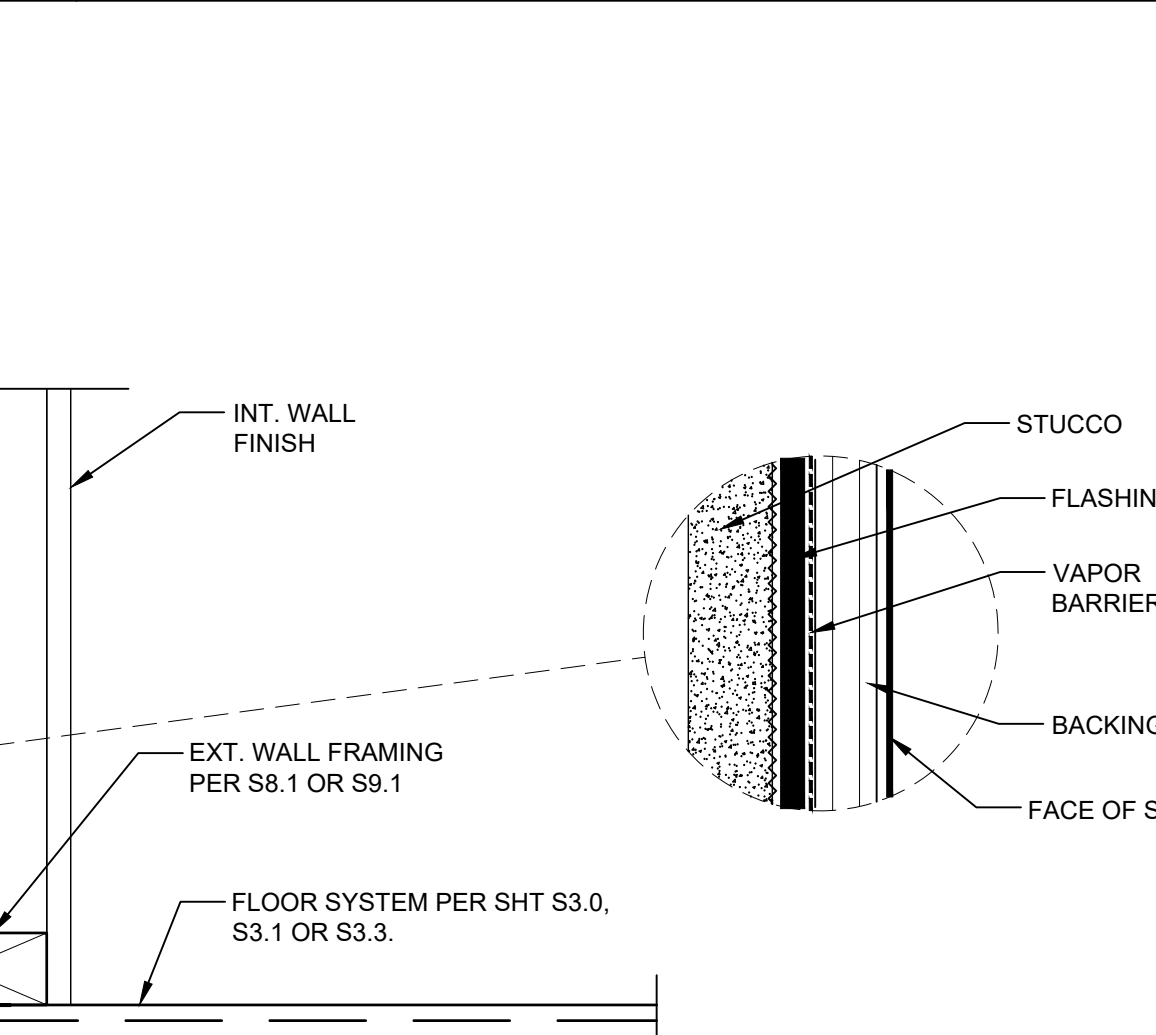
NOT USED 12



ALTERNATE BUILDING CORNER DETAIL SCALE: 3" = 1'-0" 13



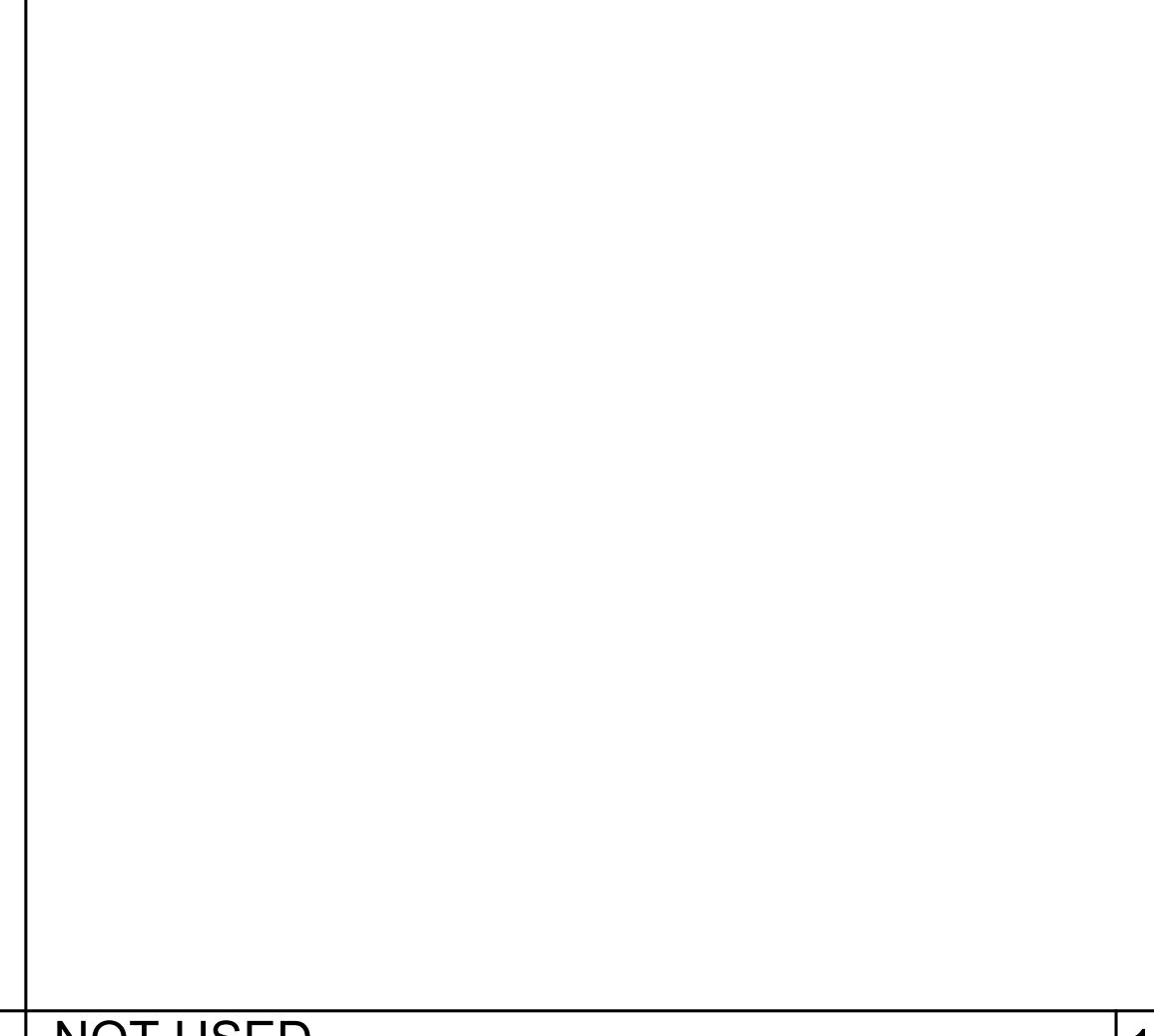
FLASHING DETAIL FOR BUILDINGS 2160 SQ. FT. OR LESS SCALE: 3" = 1'-0" 14



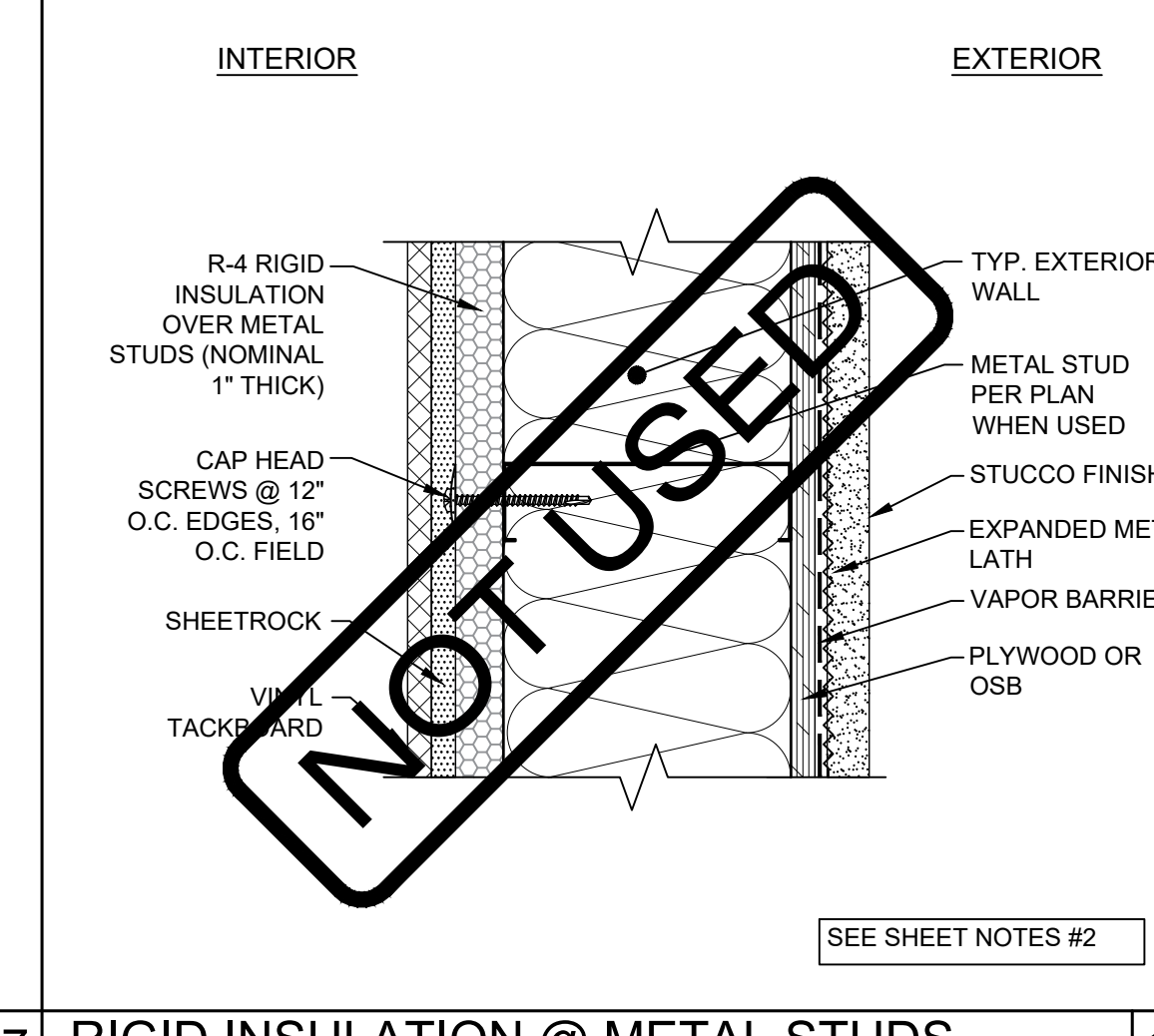
RIGID INSULATION @ METAL STUDS SCALE: 3" = 1'-0" 15

- SHEET NOTES**
- OPTIONAL METAL STUD FRAMING, SEE S9.0 THRU S9.2.
 - ADDITIONAL R-4 RIGID INSULATION REQUIRED @ METAL STUD WALLS, PER INSULATION SCHEDULE SHEET M1.7 & DETAILS 18'-.
 - FOR FINISH OPTIONS, SEE SHEET A7.0.
 - REFER TO SHEET A7.3 FOR ALL BUILDING INSULATION INSTALLATION NOT SHOWN OR NOTED ON THIS SHEET.
 - REFER TO SECTION 9A "STUCCO" FOR ALL STUCCO INSULATION NOTES.

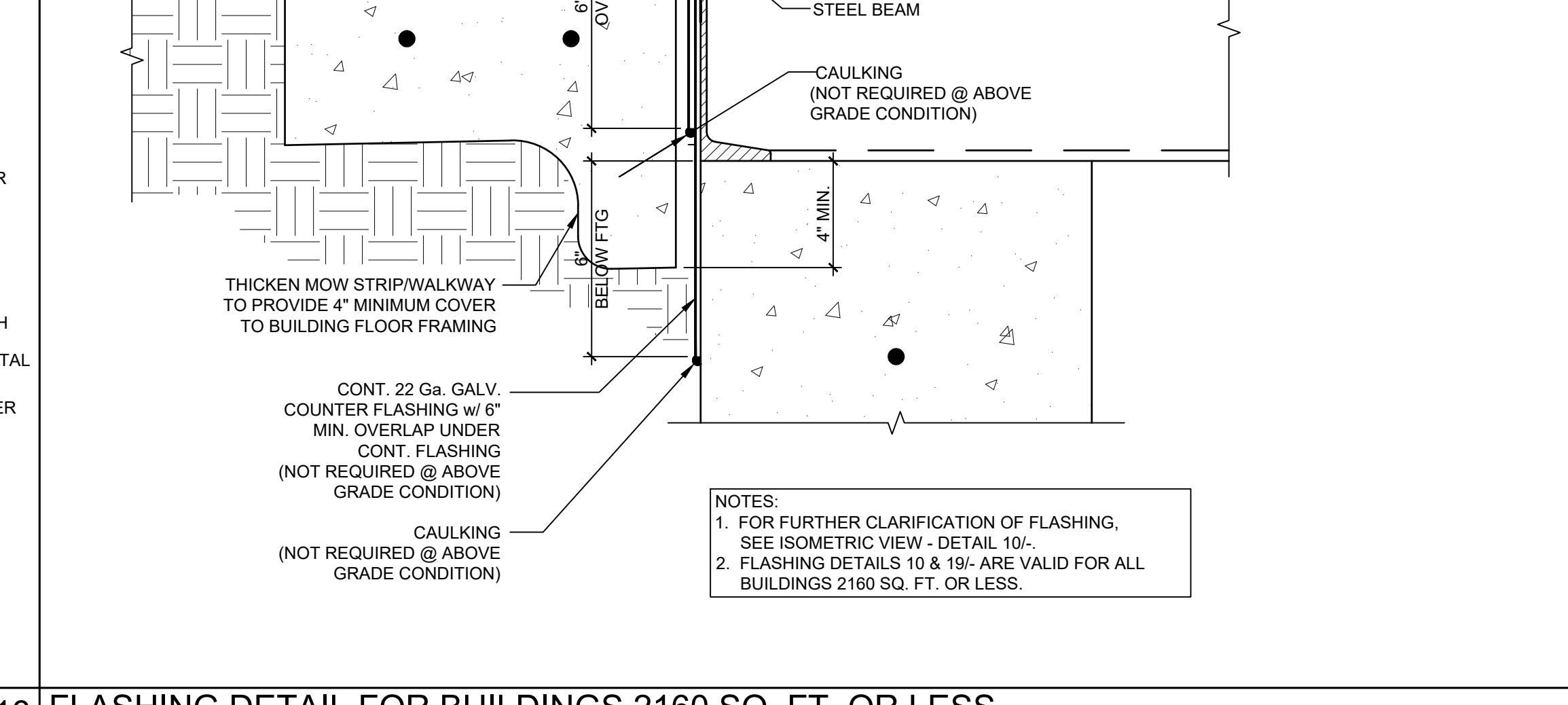
SHEET NOTES 16



NOT USED 17



RIGID INSULATION @ METAL STUDS SCALE: 3" = 1'-0" 18



FLASHING DETAIL FOR BUILDINGS 2160 SQ. FT. OR LESS SCALE: 3" = 1'-0" 19

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APP: 02-120247 INC:
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DATE: 06/24/2022

AMS
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119274 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 02/02/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
(A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED)

MANUFACTURER PROFESSIONAL OF RECORD ON PC
Patricia Cantu
LICENSED ARCHITECT
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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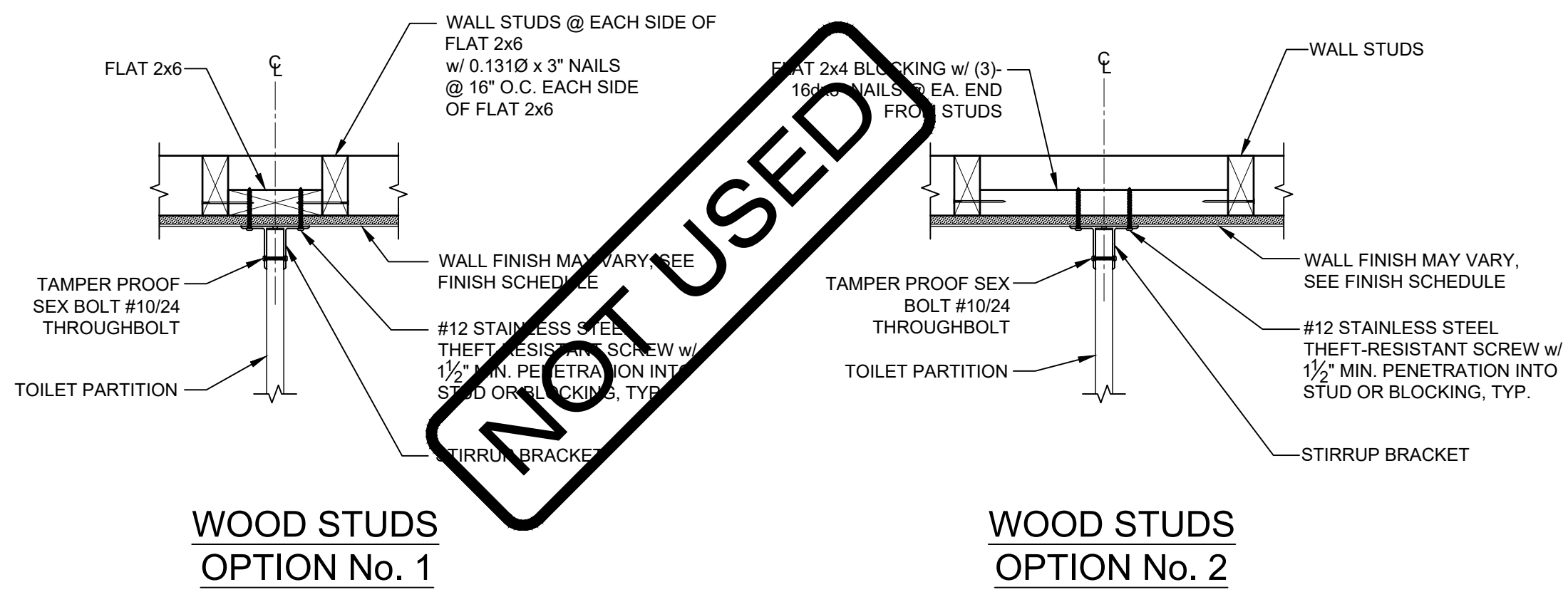
REVISIONS

DRAWN BY: AA
SCALE: AS NOTED
DATE: MMDDYY
PROJECT NO: XXXX-20
SHEET TITLE:

TYP. ARCHITECTURAL DETAILS - STUCCO OPTION

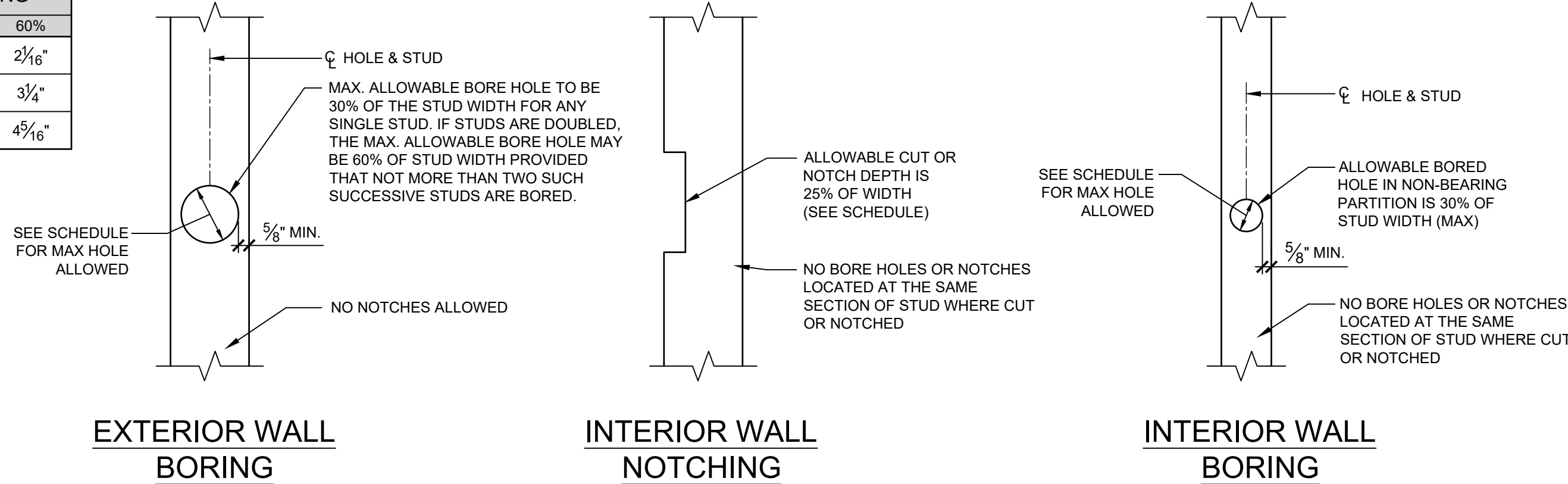
SHEET NUMBER:

A5.3



NOTCH & BORING SCHEDULE

SIZE	STUD WIDTH		NOTCHING			BORING		
	NOMINAL	ACTUAL	25%	30%	60%			
2x4	4"	3 1/2"	7/8"	1"	2 1/16"			
2x6	6"	5 1/2"	1 3/8"	1 5/8"	3/4"			
2x8	8"	7 1/4"	1 13/16"	2 1/8"	4 9/16"			

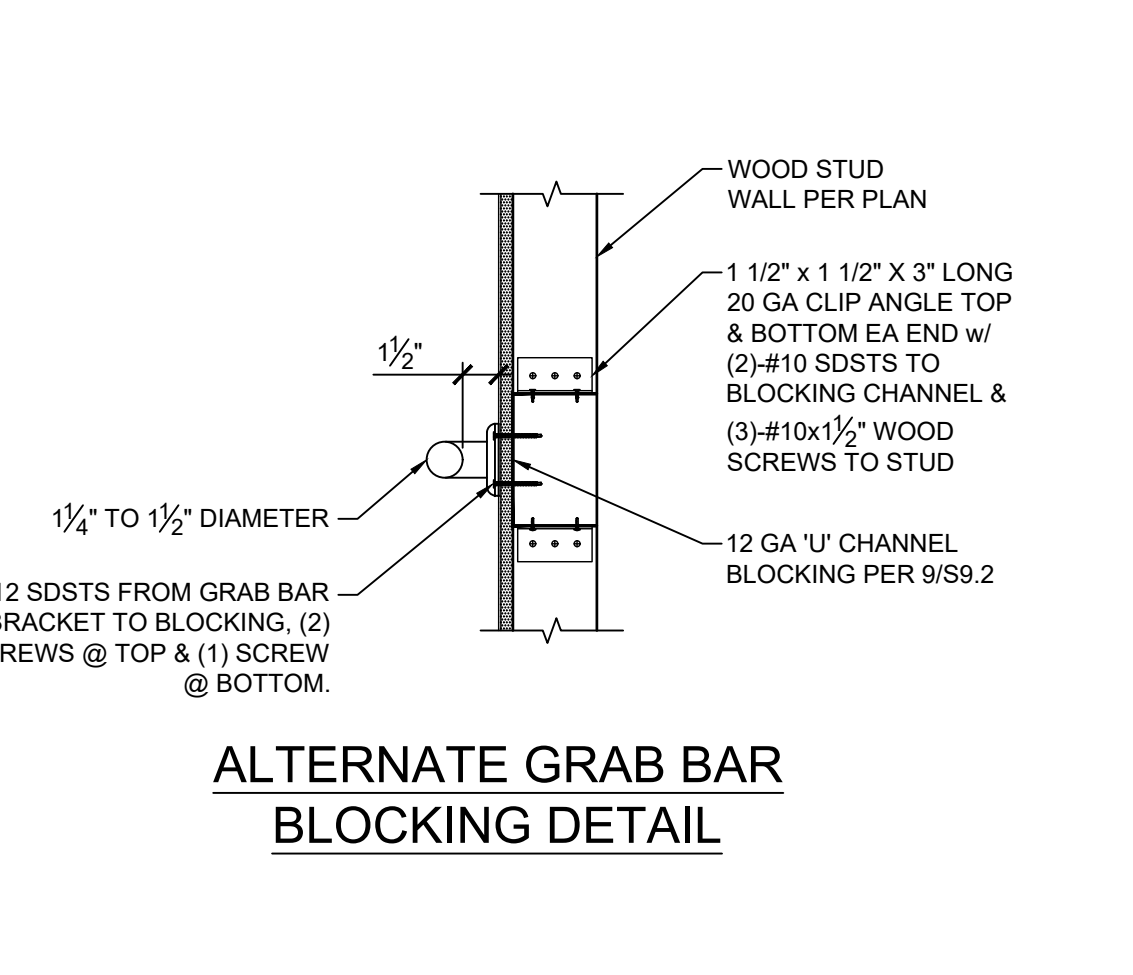
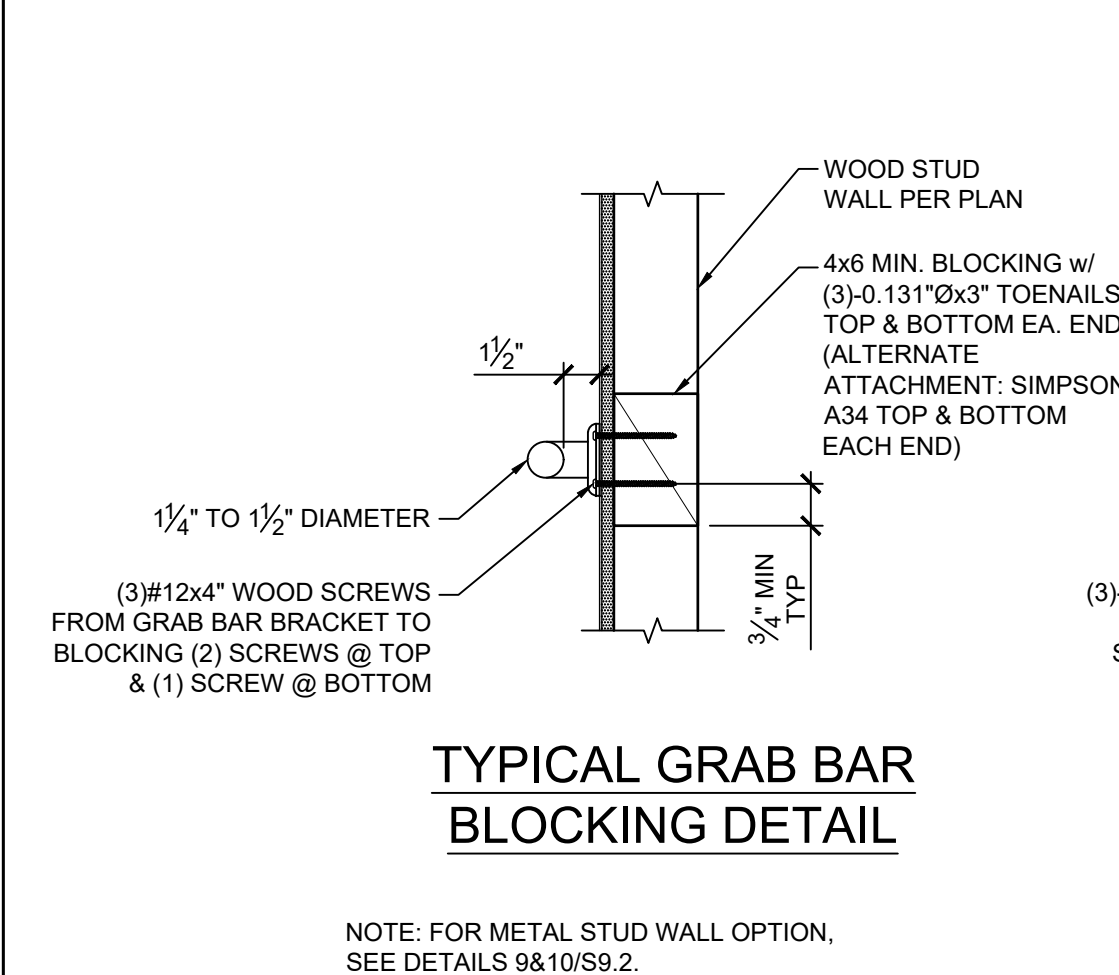
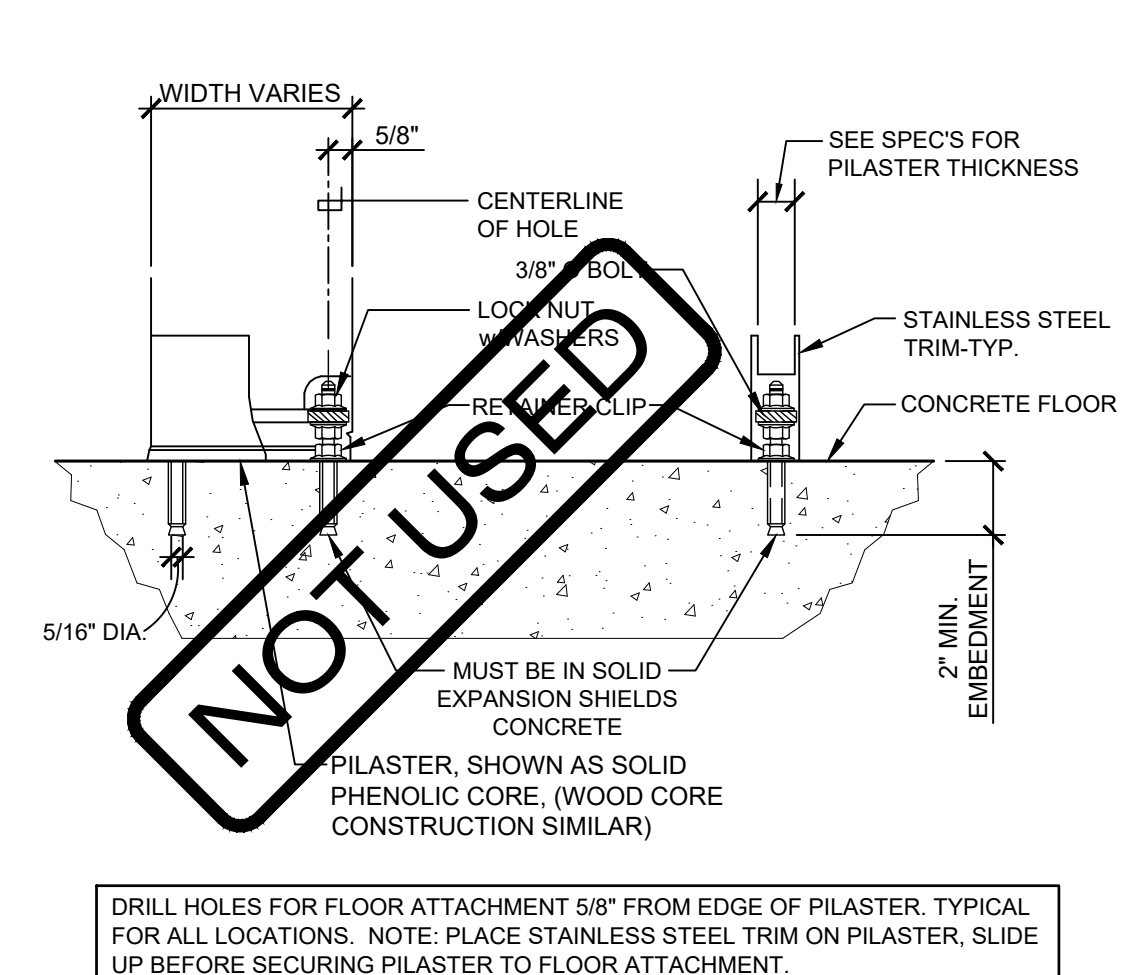
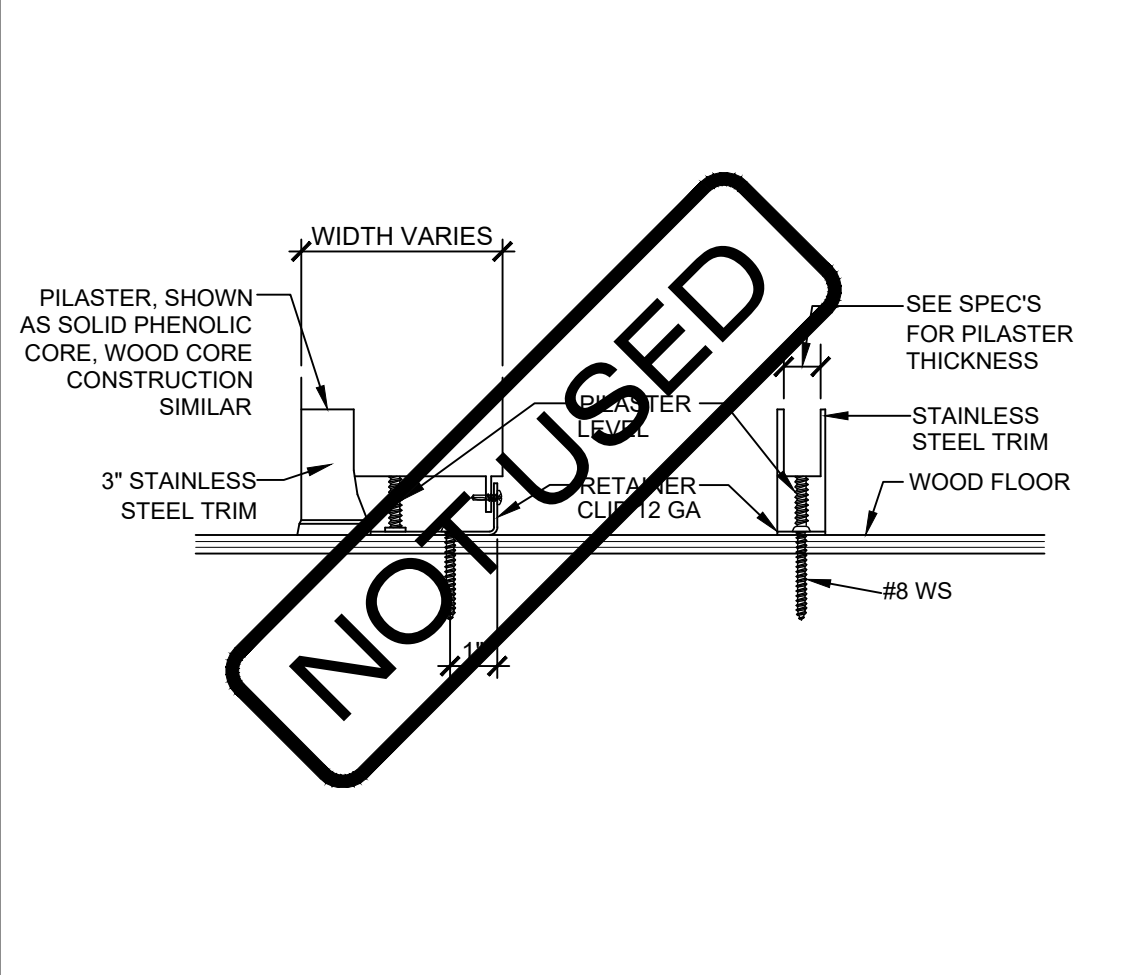
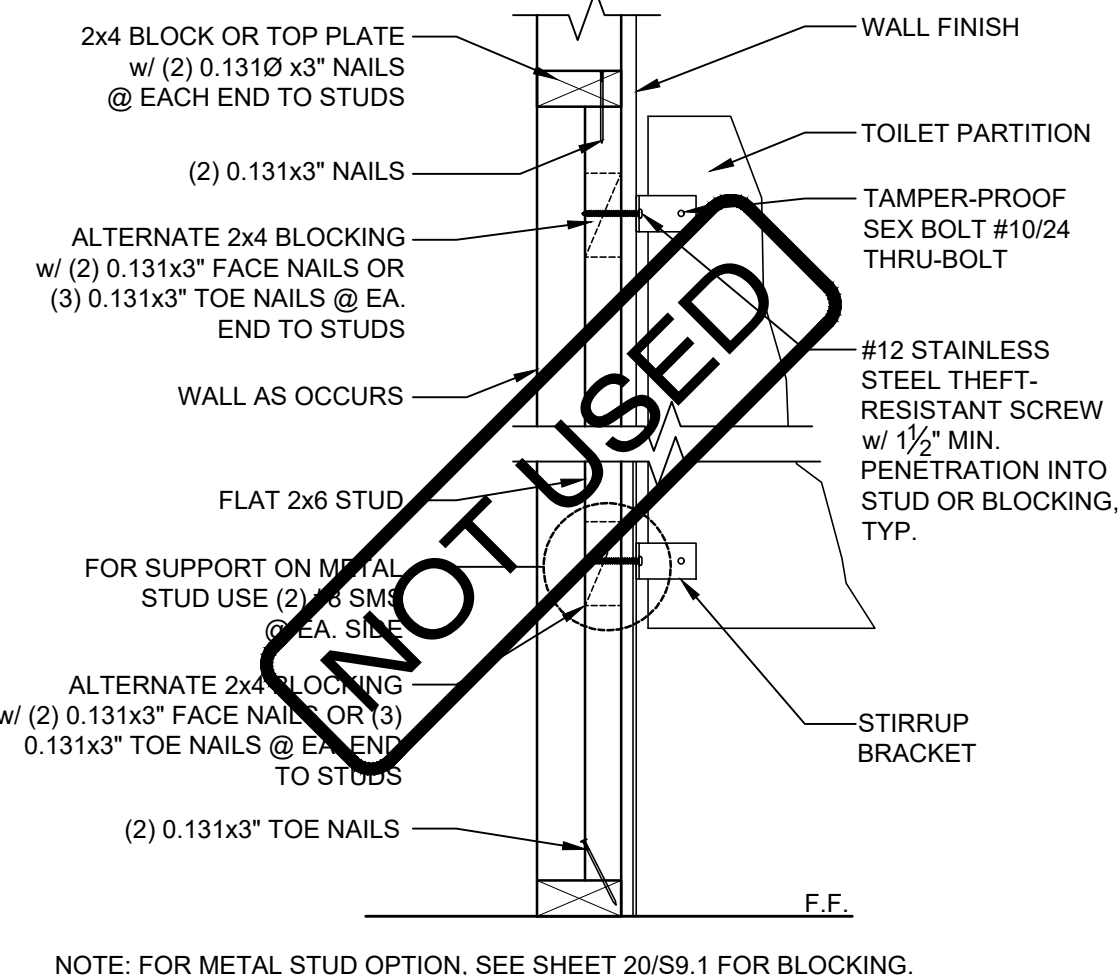


TOILET PARTITION ANCHORAGE BLOCKING DETAILS @ WALL

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

STUD NOTCHING AND BORING DETAILS

NOT TO SCALE



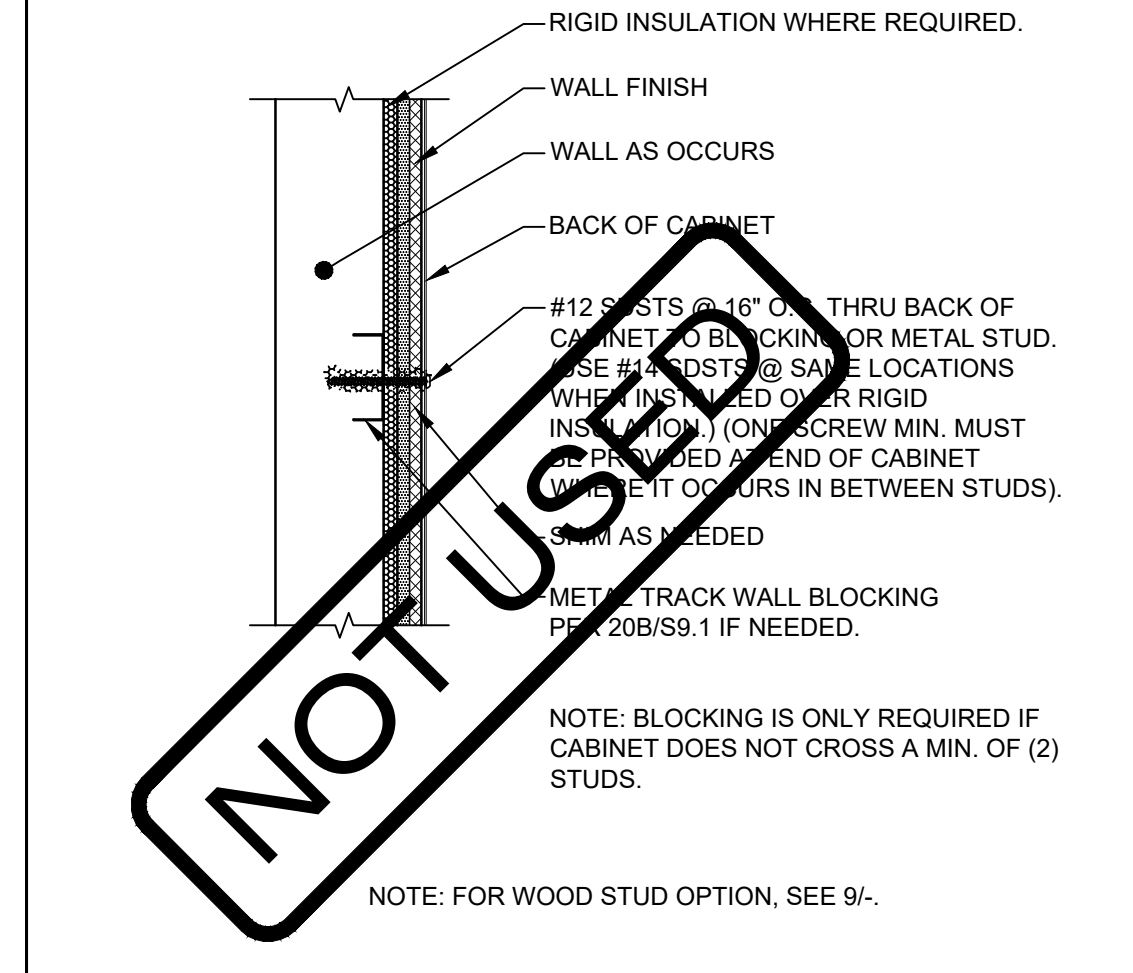
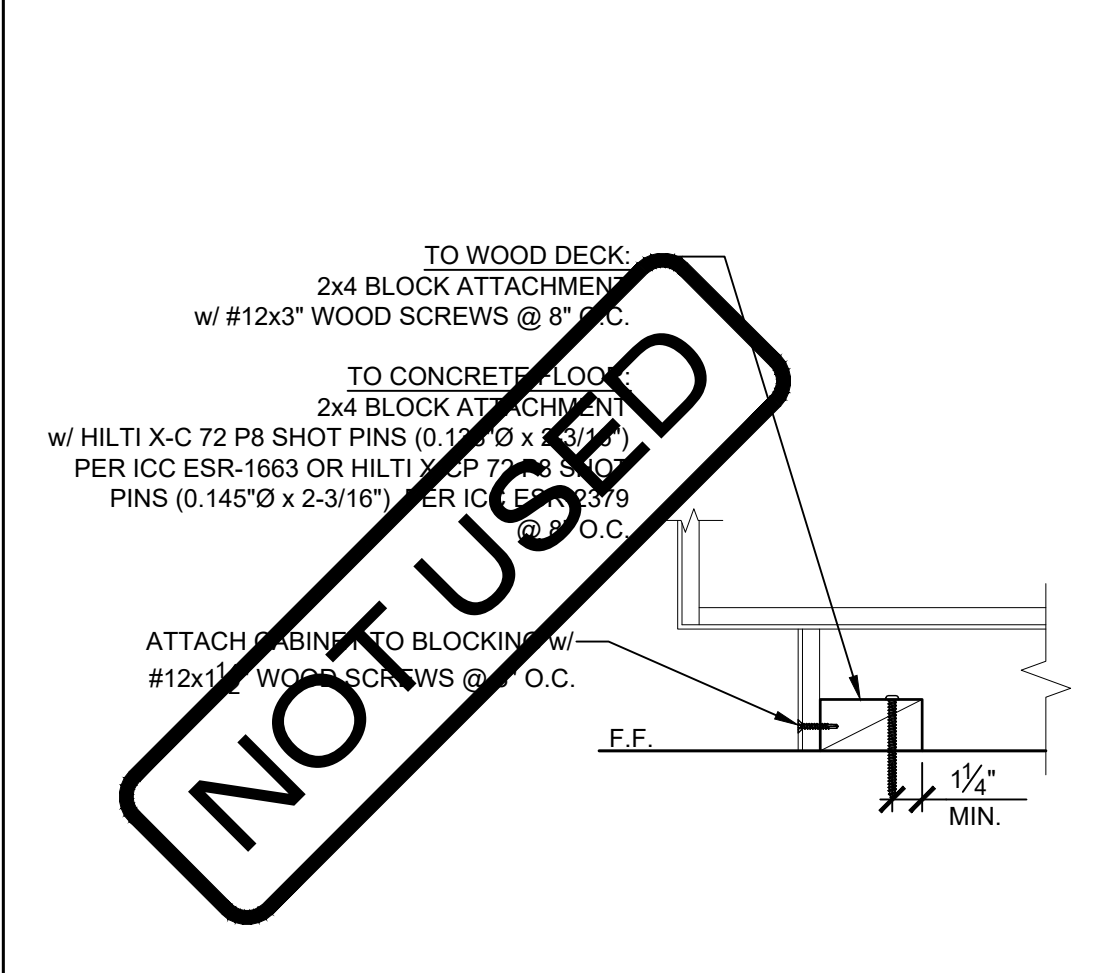
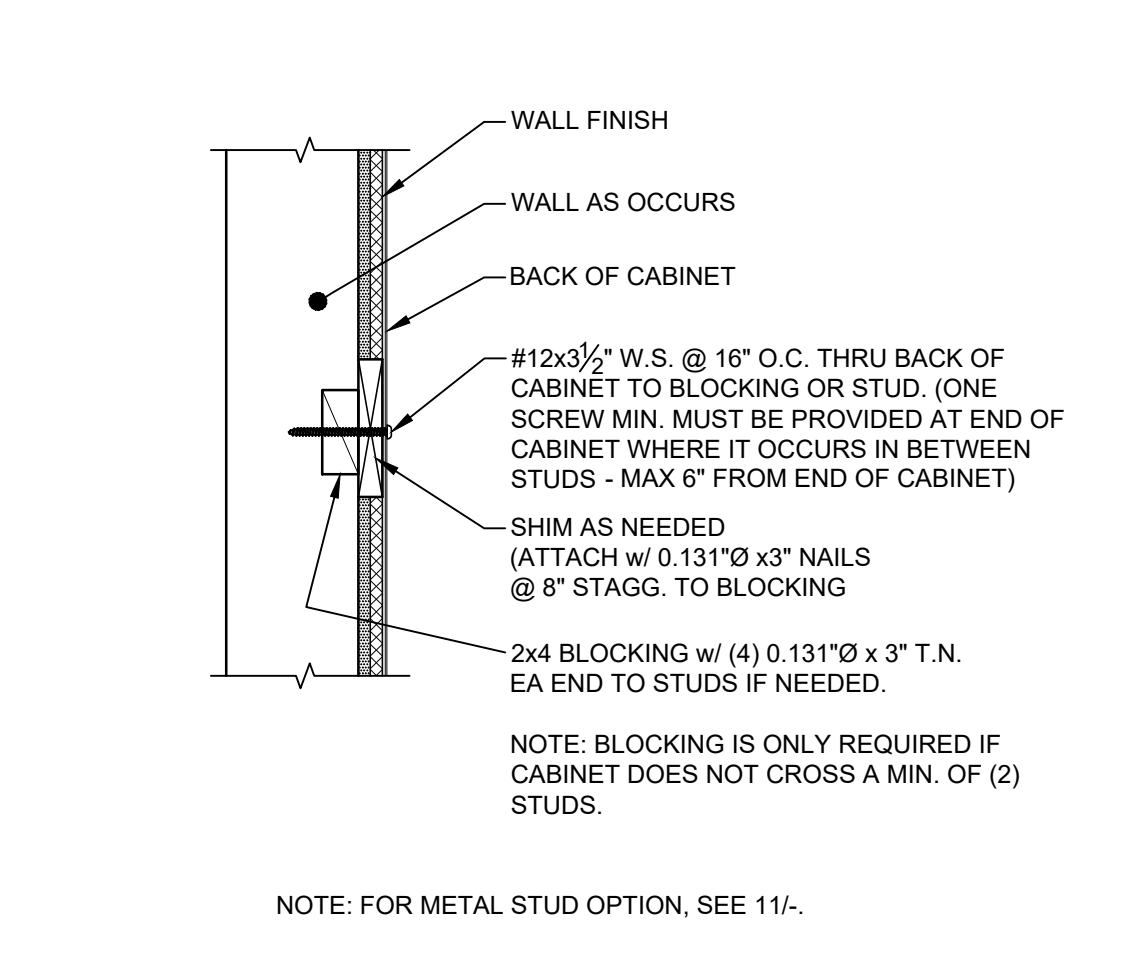
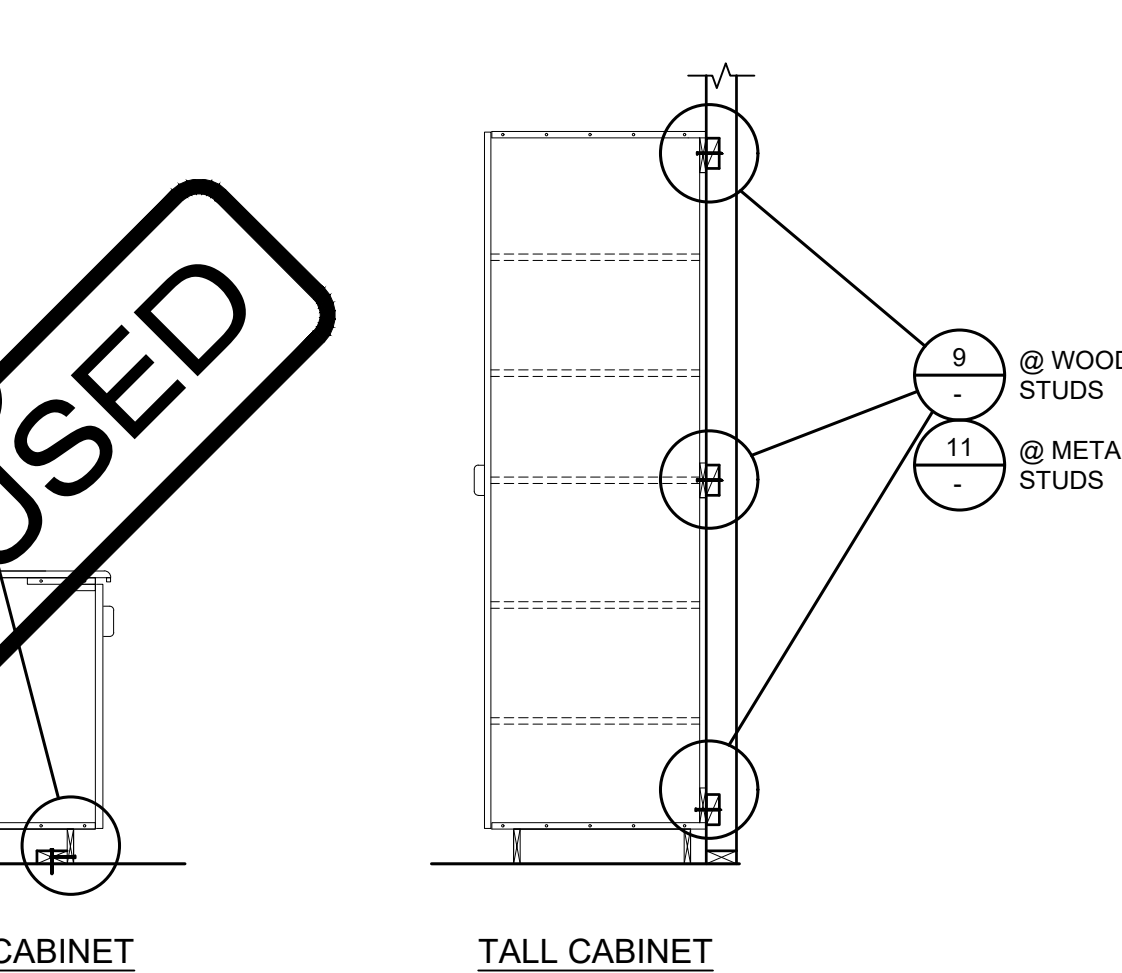
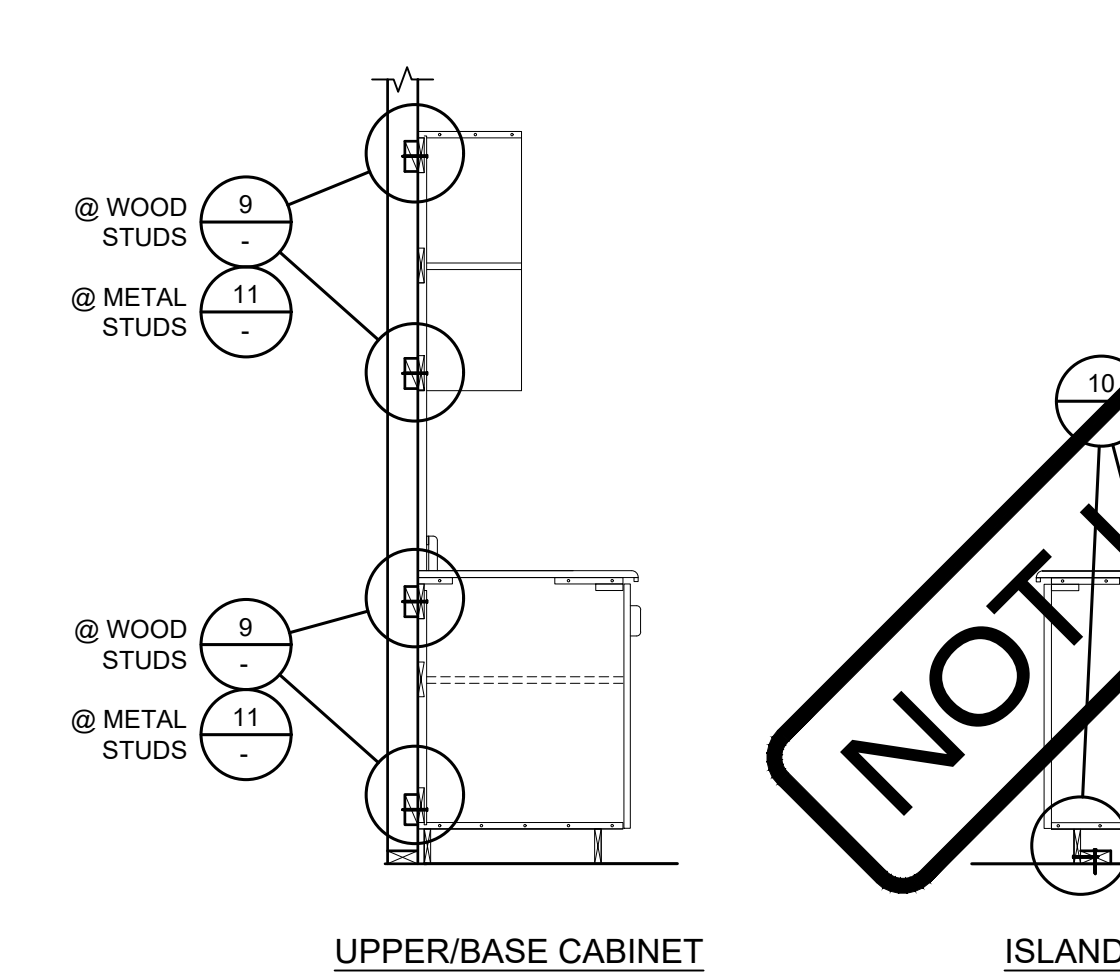
TOILET PARTITION WALL BLOCKING

PARTITION TO WOOD FLOOR

PARTITION TO CONCRETE FLOOR

GRAB BAR BLOCKING DETAIL

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



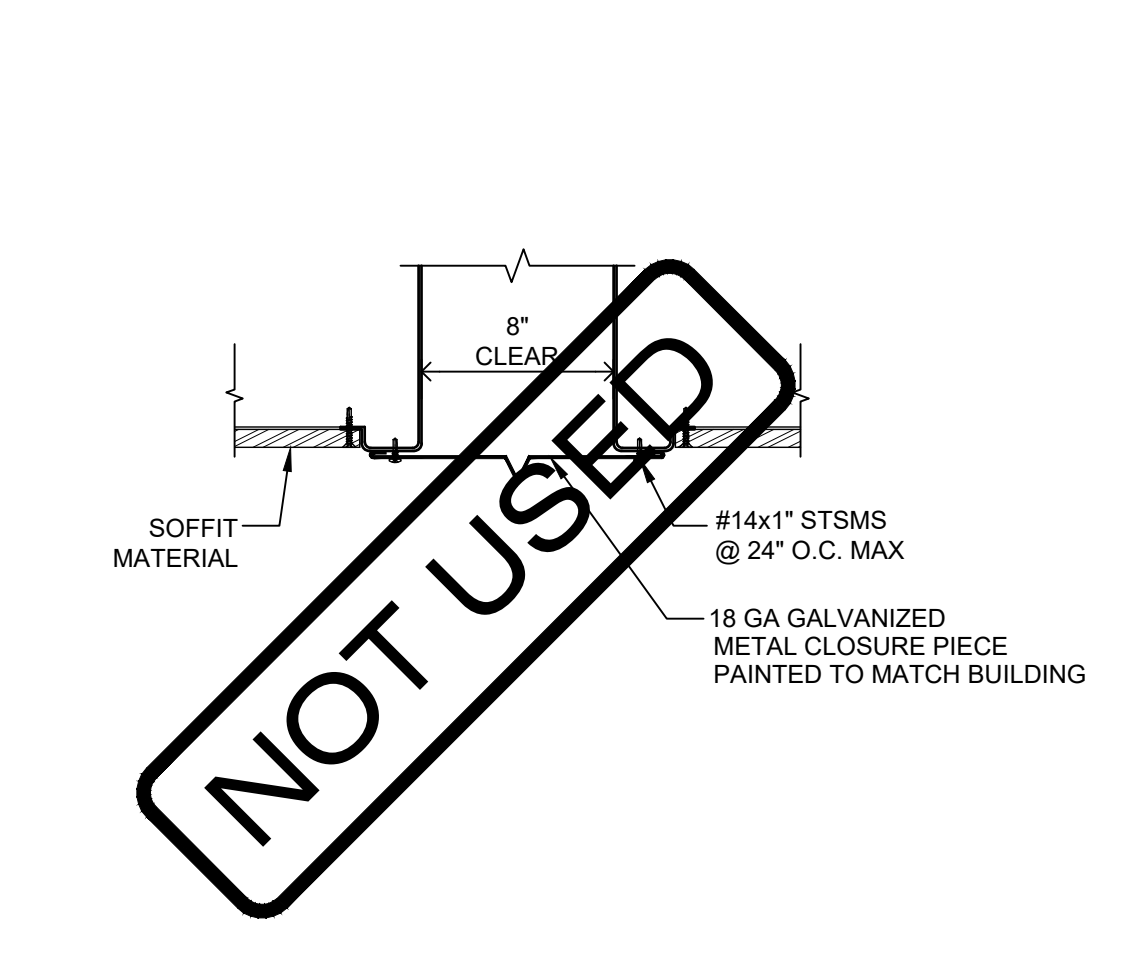
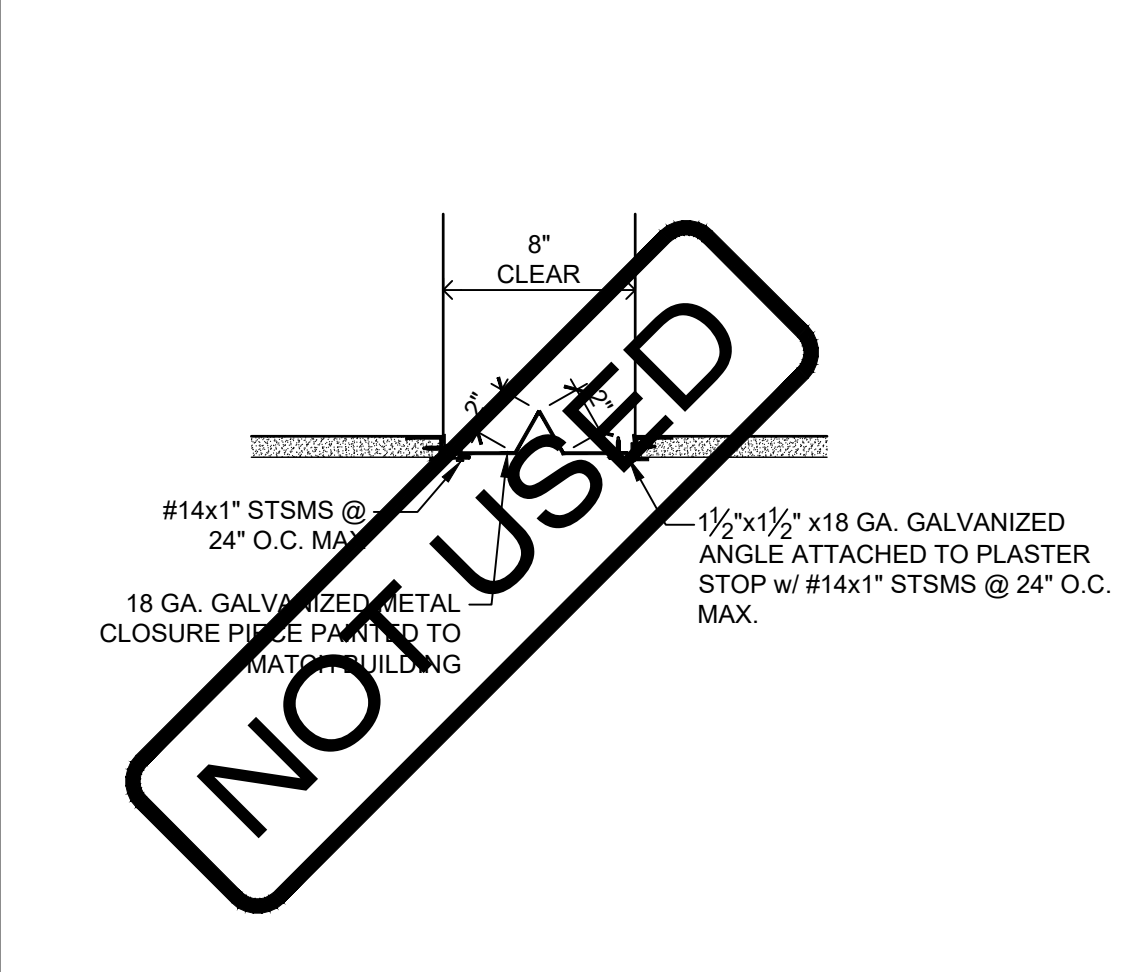
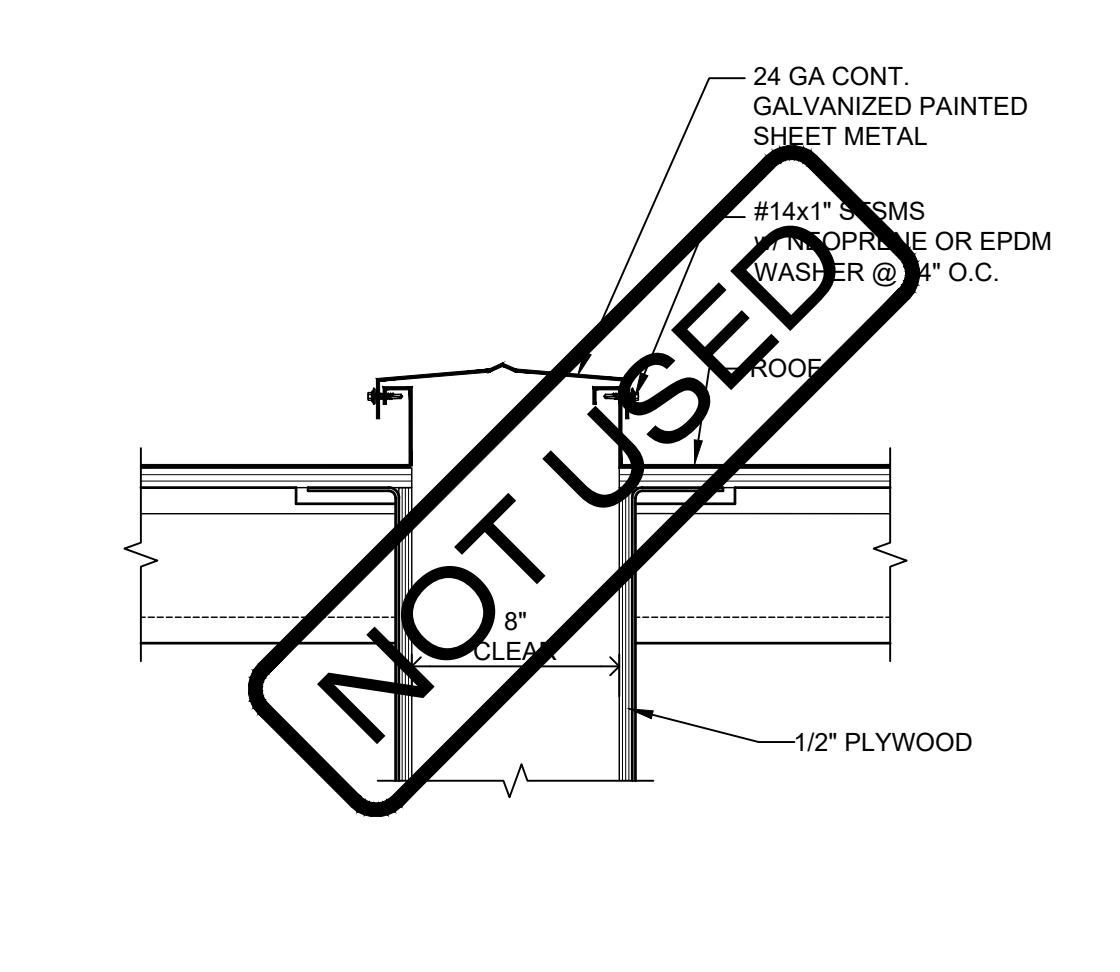
TYP. CABINET ATTACHMENT

CABINET ATTACHMENT @ WOOD STUDS

CABINET ATTACHMENT @ FLOOR

CABINET ATTACHMENT @ METAL STUDS

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



SEISMIC CLOSURE @ ROOF

SEISMIC CLOSURE @ WALL

SEISMIC CLOSURE @ SOFFIT

NOT USED

NOT USED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120247 INC:
REVIEWED FOR
SS FLS ACS
DATE: 06/24/2022

AMS
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119274 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 02/02/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
MANUFACTURER PROFESSIONAL OF RECORD ON PC

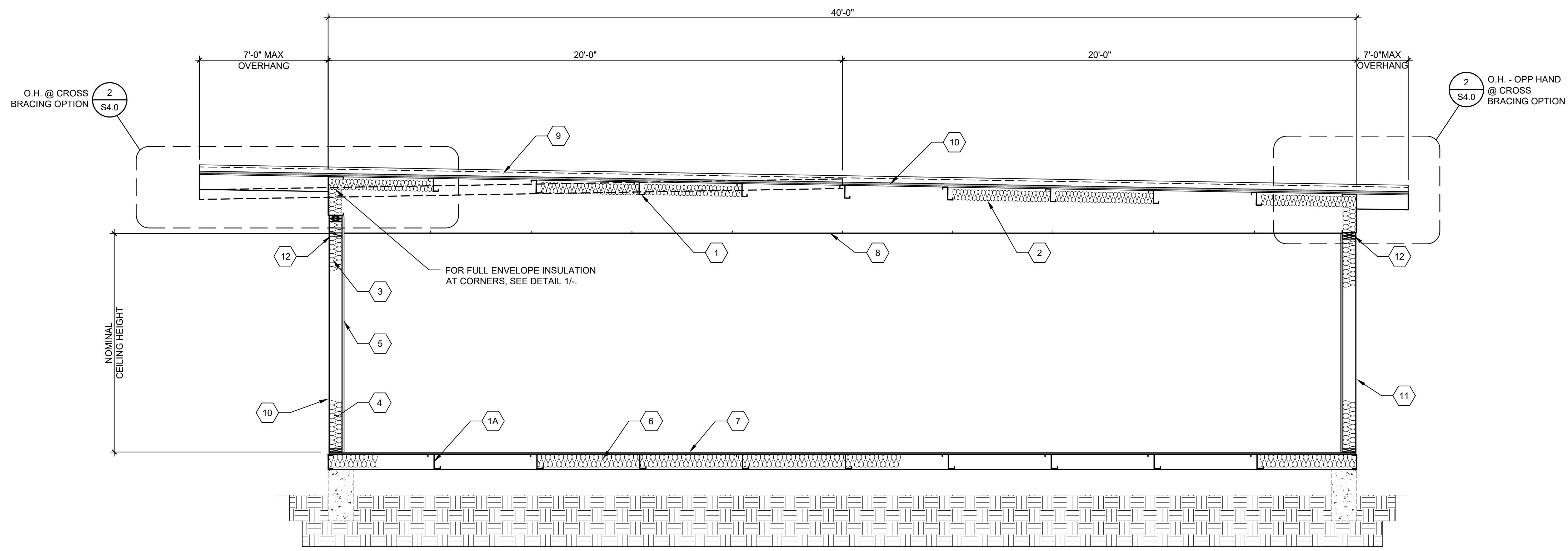
LICENCED ARCHITECT
PATRICK CANNON
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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REVISIONS

DRAWN BY: AA
SCALE: AS NOTED
DATE: MMDDYY
PROJECT NO: XXXX-20
SHEET TITLE: MISCELLANEOUS ARCHITECTURAL DETAILS
SHEET NUMBER:

A7.1



TYP. LONGITUDINAL SECTION-MONO/DUAL PITCH

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

- 1 ROOF PURLINS PER ROOF FRAMING PLAN
- 1A FLOOR JOISTS PER FLOOR FRAMING PLAN
- 2 BATT ROOF INSULATION PER SHEET M1.7
- 3 WALL FRAMING PER SHEETS S8.0 OR S9.0
- 4 WALL INSULATION PER SHEET M1.7
- 5 VINYL FABRIC OVER TACKABLE BRACING PANELS
- 6 BATT FLOOR INSULATION PER SHEET M1.7 (PLYWOOD FLOOR ONLY)
- 7 PLYWOOD FLOOR PER SHEET S3.0 OR CONCRETE FLOOR PER SHEETS S3.1 - S3.3
- 8 SUSPENDED T-BAR CEILING PER M1.0
- 9 FINISHED ROOFING PER ROOF PLAN & ROOF FRAMING PLAN
- 10 STEEL CROSS BRACING WITHOUT RIGID ROOF INSULATION (S4.0)
- 11 EXTERIOR WALL FINISH PER EXTERIOR ELEVATIONS
- 12 FIRE BLOCKING @ CEILING LEVEL PER CBC 718.2

KEY NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 02-120247 INC:
REVIEWED FOR

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DATE: 06/24/2022

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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 02-119274 PC
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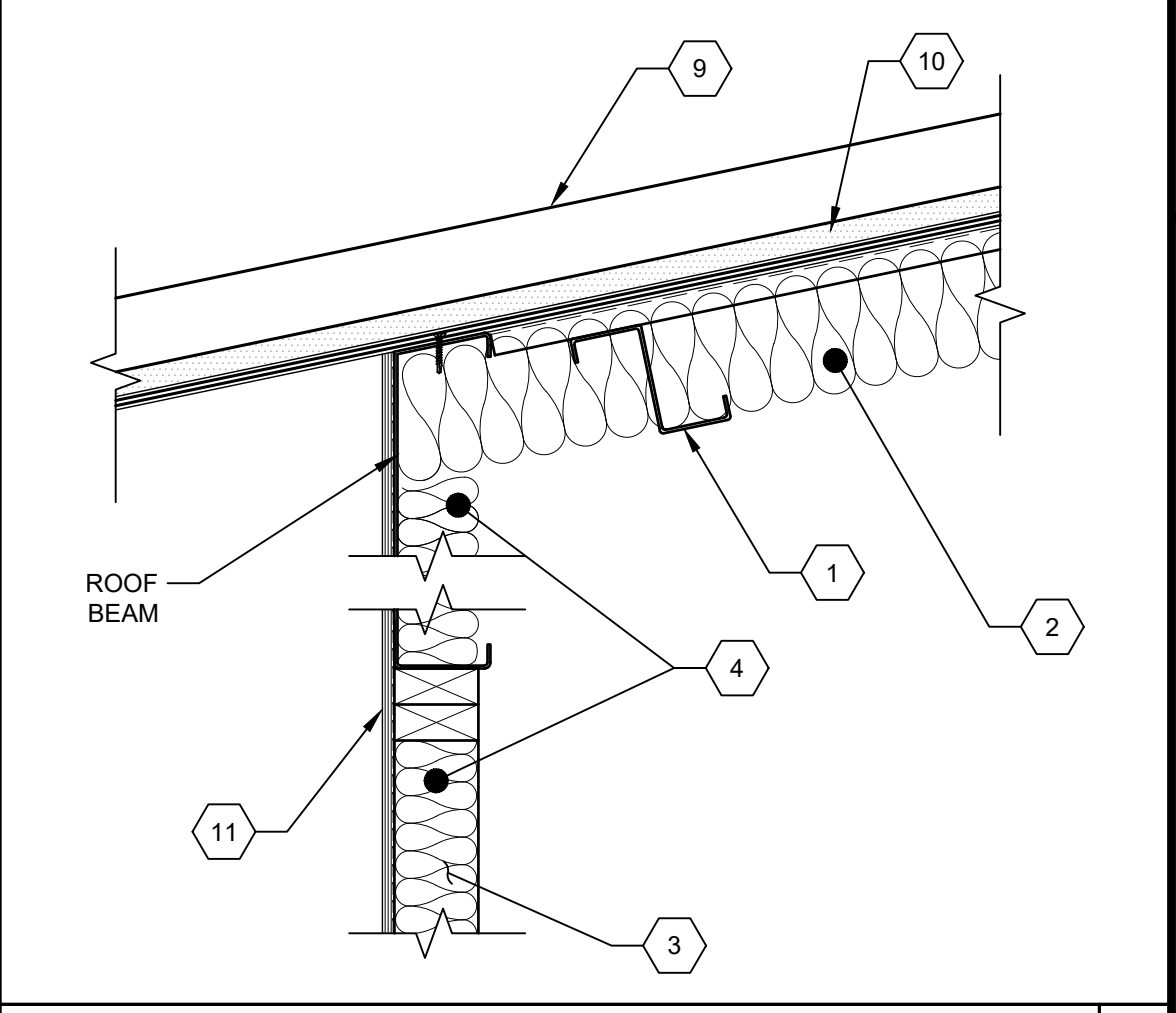
DATE: 02/02/2022

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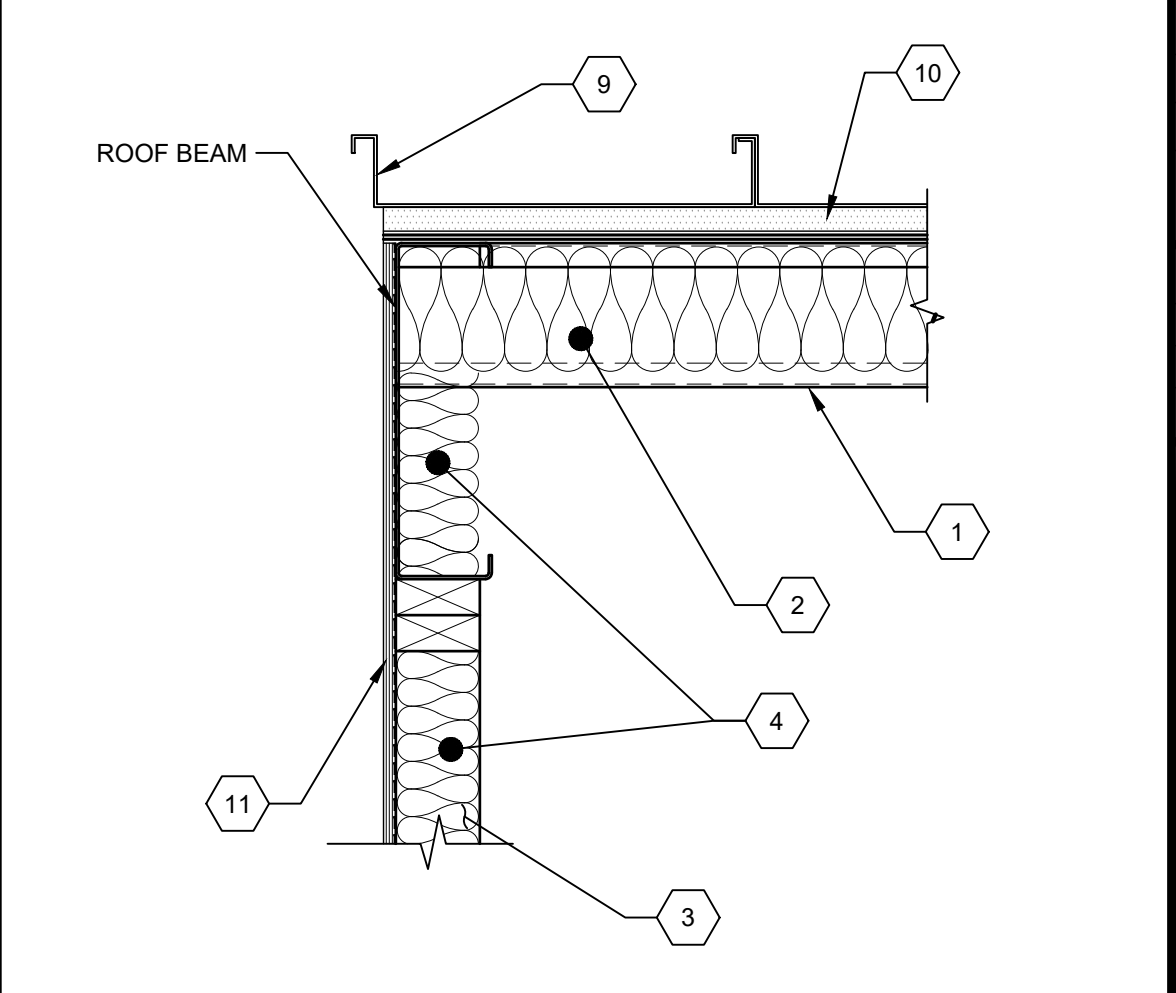
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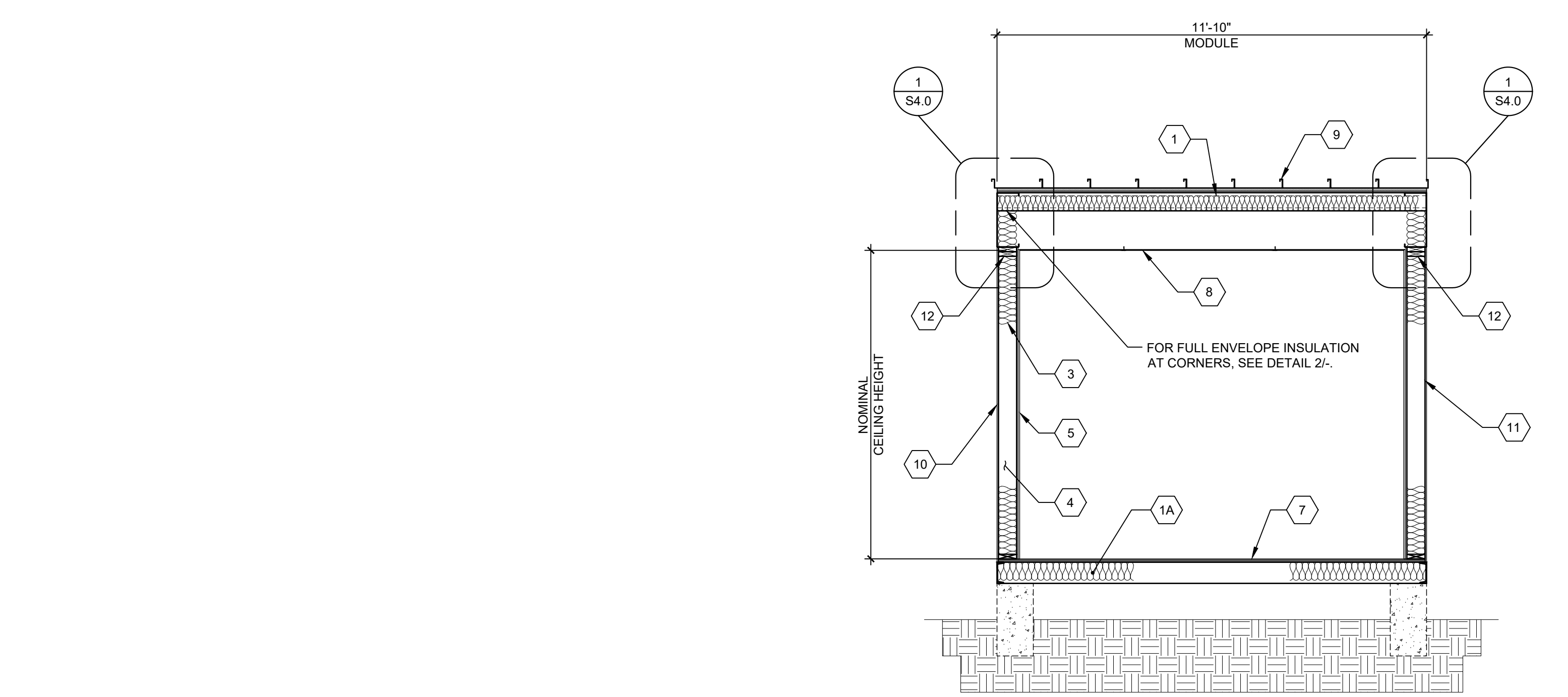
NOT USED



INSULATION CORNER DET. SCALE: 1-1/2"=1'-0" 1



INSULATION CORNER DET. SCALE: 1-1/2"=1'-0" 2



TYP. TRANSVERSE SECTION-MONO/DUAL PITCH

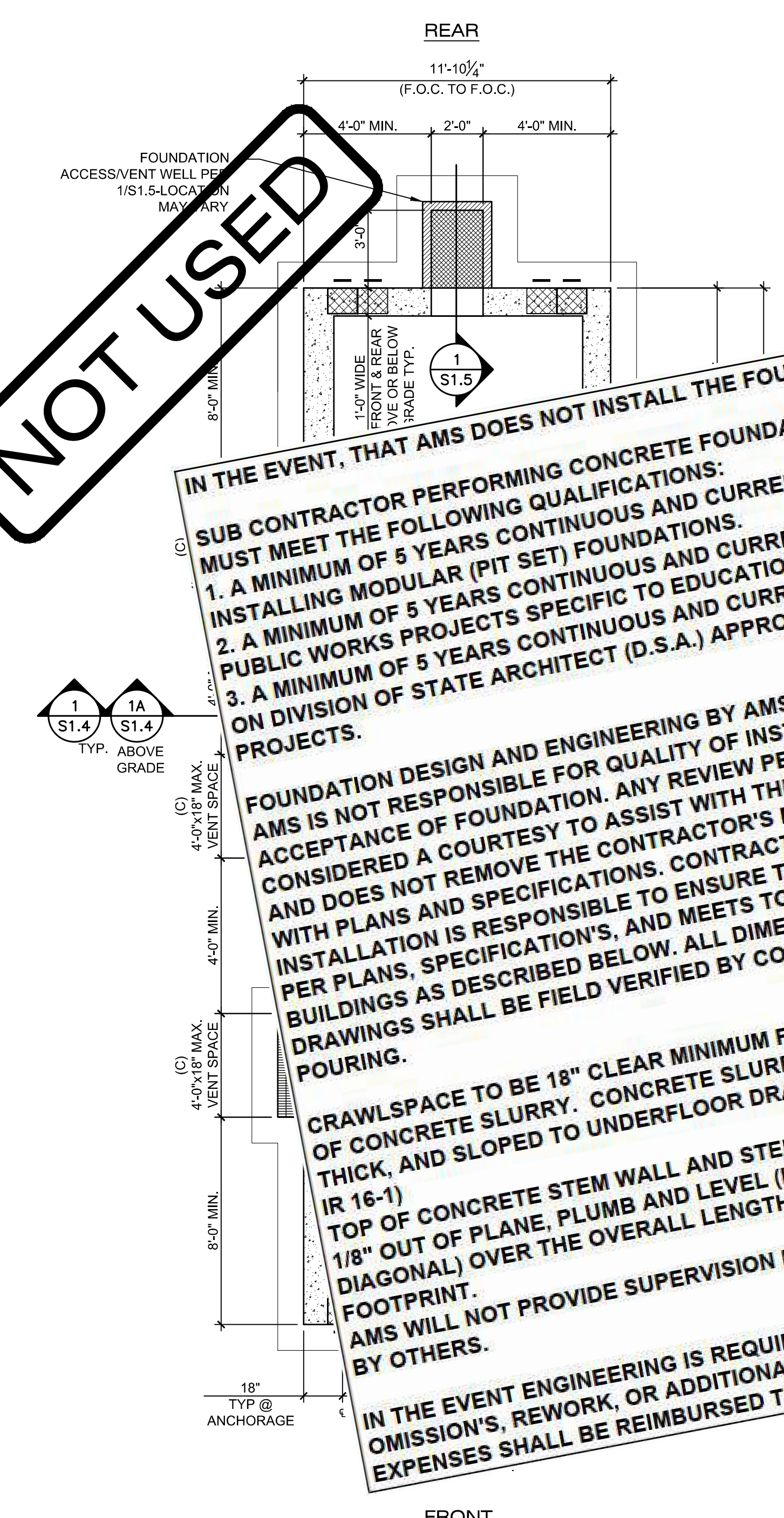
SCALE: 3/8"=1'-0" B

REVISIONS	
▲	
▲	
▲	
▲	

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO.:	XXXX-20
SHEET TITLE:	
TYPICAL LONGITUDINAL AND TRANSVERSE FRAME SECTIONS	
SHEET NUMBER:	

A7.3

NOT USED



IN THE EVENT, THAT AMS DOES NOT INSTALL THE FOUNDATION:

SUB CONTRACTOR PERFORMING CONCRETE FOUNDATION INSTALLATION MUST MEET THE FOLLOWING QUALIFICATIONS:

1. A MINIMUM OF 5 YEARS CONTINUOUS AND CURRENT EXPERIENCE INSTALLING MODULAR (PIT SET) FOUNDATIONS.
2. A MINIMUM OF 5 YEARS CONTINUOUS AND CURRENT EXPERIENCE WITH PUBLIC WORKS PROJECTS SPECIFIC TO EDUCATION.
3. A MINIMUM OF 5 YEARS CONTINUOUS AND CURRENT EXPERIENCE WORKING ON DIVISION OF STATE ARCHITECT (D.S.A.) APPROVED AND INSPECTED PROJECTS.

FOUNDATION DESIGN AND ENGINEERING BY AMS, INSTALLATION BY OTHERS. AMS IS NOT RESPONSIBLE FOR QUALITY OF INSTALLATION, INSPECTIONS, NOR ACCEPTANCE OF FOUNDATION. ANY REVIEW PERFORMED BY AMS SHALL BE CONSIDERED A COURTESY TO ASSIST WITH THE OVERALL PROJECT SUCCESS AND DOES NOT REMOVE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH PLANS AND SPECIFICATIONS. CONTRACTOR PERFORMING FOUNDATION INSTALLATION IS RESPONSIBLE TO ENSURE THE FOUNDATION IS COMPLETED PER PLANS, SPECIFICATION'S, AND MEETS TOLERANCES INDICATED ON APPROVED DRAWINGS AS DESCRIBED BELOW. ALL DIMENSIONS INDICATED ON APPROVED BUILDINGS SHALL BE FIELD VERIFIED BY CONTRACTOR BEFORE CONCRETE POURING.

CRAWLSPACE TO BE 18" CLEAR MINIMUM FROM TOP OF STEM WALL TO TOP OF CONCRETE SLURRY. CONCRETE SLURRY (IF APPLICABLE) TO BE MIN 2" THICK, AND SLOPED TO UNDERFLOOR DRAINAGE (DRAINAGE TO COMPLY WITH IR 16-1)

TOP OF CONCRETE STEM WALL AND STEEL EMBEDS CANNOT BE MORE THAN 1/8" OUT OF PLANE, PLUMB AND LEVEL (HORIZONTAL, VERTICAL AND SQUARE DIAGONAL) OVER THE OVERALL LENGTH AND WIDTH OF THE FOUNDATION FOOTPRINT.

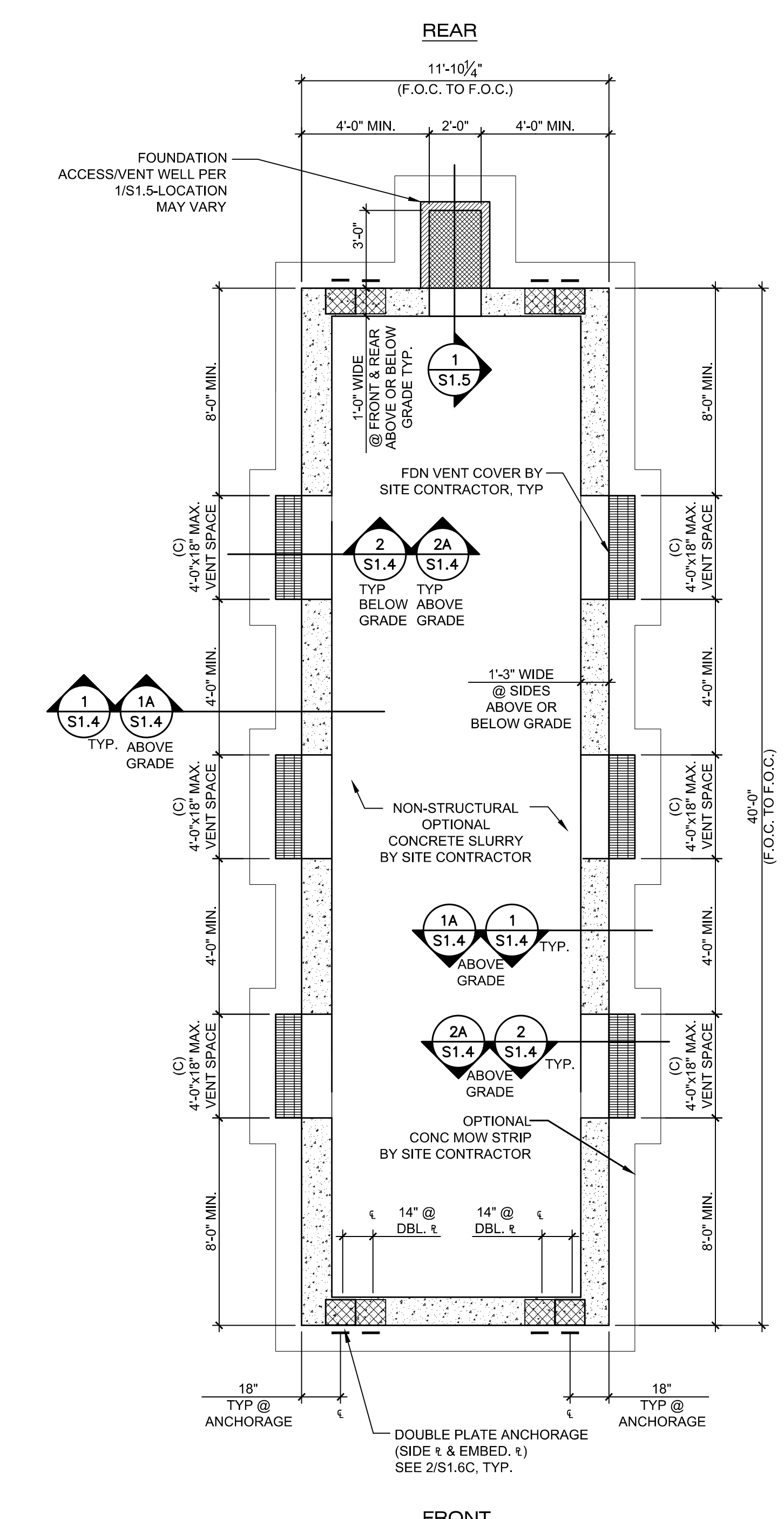
AMS WILL NOT PROVIDE SUPERVISION NOR SIGN OFF ON WORK PERFORMED BY OTHERS.

IN THE EVENT ENGINEERING IS REQUIRED TO ACCOMMODATE ERROR'S OR OMISSION'S, REWORK, OR ADDITIONAL COORDINATION/ENGINEERING ALL EXPENSES SHALL BE REIMBURSED TO AMS.

CONCRETE FOUNDATION PLAN (WOOD FLOOR)-
100 PSF MAX FLOOR LIVE LOAD
 SCALE: 1/4"=1'-0" **A**

1. CONCRETE MIXTURES:
 - A. ULTIMATE 28-DAY CONCRETE COMPRESSIVE STRENGTH (f_c) SHALL BE PER SHEET N1.0A
 - B. PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.3.
 - C. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4.
 - D. CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1.
 - E. SEE SHEET N1.0 FOR ADDITIONAL CONCRETE NOTES.
2. BUILDINGS MAY BE SET ON CONCRETE FOUNDATIONS THAT HAVE REACHED A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 2,500 PSI. PRIOR TO THE SETTING OF THE MODULAR BUILDING ON CONCRETE FOUNDATIONS THAT HAVE NOT YET CURED 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE, THE FOUNDATION CONTRACTOR SHALL
 - A. HAVE THE PROJECT TESTING LAB PERFORM CONCRETE CYLINDER COMPRESSION TESTS OF THE FOUNDATION CONCRETE USED AT THE SITE.
 - B. FURNISH THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITH THE CONCRETE TEST REPORTS VERIFYING THAT THE FOUNDATION CONCRETE HAS REACHED THE MINIMUM STRENGTH AS SPECIFIED ABOVE, AND
 - C. NOTIFY THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THEIR INTENT TO SET THE MODULAR BUILDING PRIOR TO 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE.
3. REINFORCING STEEL SHALL BE 60,000 PSI MINIMUM, PER ASTM A615. THE REINFORCING BARS SHALL BE TESTED PER TITLE 24, PART 2, SECTION 1910A.2. TEST OF REINFORCING BARS MAY BE WAIVED PROVIDED CERTIFIED MILL TEST REPORTS ARE PROVIDED FOR EACH SHIPMENT OF SUCH REINFORCEMENT.
4. DESIGN SOIL BEARING CAPACITY: 1500 PSF.
 (1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED FOR WIND & SEISMIC LOAD COMBINATIONS UNLESS USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1605A.3.2)
5. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL VERIFY THE NET AREA OF THE UNDER-FLOOR VENTING IS EQUAL TO OR LARGER THAN THE VENT AREA REQUIRED (AS SHOWN ON THE ADJACENT TABLE).

NOTES



CONCRETE FOUNDATION PLAN (CONCRETE FLOOR)
100 PSF MAX FLOOR LIVE LOAD
 SCALE: 1/4"=1'-0" **B**

NOMINAL BLDG SIZE (FT)	TOTAL # OF 12' WIDE MODULES	"A" TOTAL # OF CENTER MODULES	"B" TOTAL FNDN WIDTH'	TOTAL NOMINAL FLOOR AREA (FT ²)	NET FREE VENT AREA REQ'D ³ (FT ²)	IF 4'x12" VENTS ARE USED SOLELY		IF 4'x18" VENTS ARE USED SOLELY	
						"C" MIN. TOTAL VENTS REQ'D ³	NET FREE VENT AREA PROVIDED ³ (FT ²)	"C" MIN. TOTAL VENTS REQ'D ³	NET FREE VENT AREA PROVIDED ³ (FT ²)
<input checked="" type="checkbox"/> 12'x40'	2	0	11'-10 1/4"	480	3.2	2	5.8	2	8.8

NOTES:

TOTAL FOUNDATION WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE.

1. UNLESS NOTED OTHERWISE, DIMENSIONS ARE FROM FACE OF CONCRETE TO FACE OF CONCRETE (FOC TO FOC)
2. THE NUMBER OF VENTS REQUIRED IS BASED ON THE VENT NET FREE AREA (NFA) PROVIDED BEING GREATER OR EQUAL TO THE VENT NFA REQUIRED. VENT NFA REQUIRED IS BASED ON A 1:150 VENTILATION RATIO OF THE NOMINAL BUILDING FLOOR AREA. VENT NFA PROVIDED IS THE ACTUAL OPEN AREA WITH A VENT GROSS AREA REDUCTION PERCENTAGE OF 73% & NUMBER OF VENTS PROVIDED.

$$NFA_{REQUIRED} = A_{FLOOR} / 150 \quad NFA_{PROVIDED} > NFA_{REQUIRED} \quad A_{VENT,GROSS} \times 73\% \times (\# \text{ OF VENTS}) > NFA_{REQUIRED}$$
4. REQUIRED VENTING MAY BE ACHIEVED BY A COMBINATION OF ACCESS VENT(S) AND VENTS OF DIFFERENT SIZES BASED ON THE VALUES LISTED BELOW.

4'x12" VENTS x 0.73 x (# OF VENTS) = 2.92 FT ² x (# OF VENTS)	4'x18" VENTS x 0.73 x (# OF VENTS) = 4.38 FT ² x (# OF VENTS)
ACCESS VENTS - 2' x 1.5' x (# OF VENTS) = 3.00 FT ² x (# OF VENTS)	

VENTING

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 DIV. OF THE STATE ARCHITECT
 APP: 02-120247 INC:
 REVIEWED FOR
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 DATE: 06/24/2022

AMS
 American Modular Systems
 787 Spreckels Ave., Manteca, CA 95336
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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING
FORM

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-119274 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 02/02/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
 MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
 PATRICK CARROLL
 No. C12631
 Ren. 3-31-23
 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
 MANNY D. FRIEDMAN
 No. 5180
 Exp. 07/31/22
 STATE OF CALIFORNIA

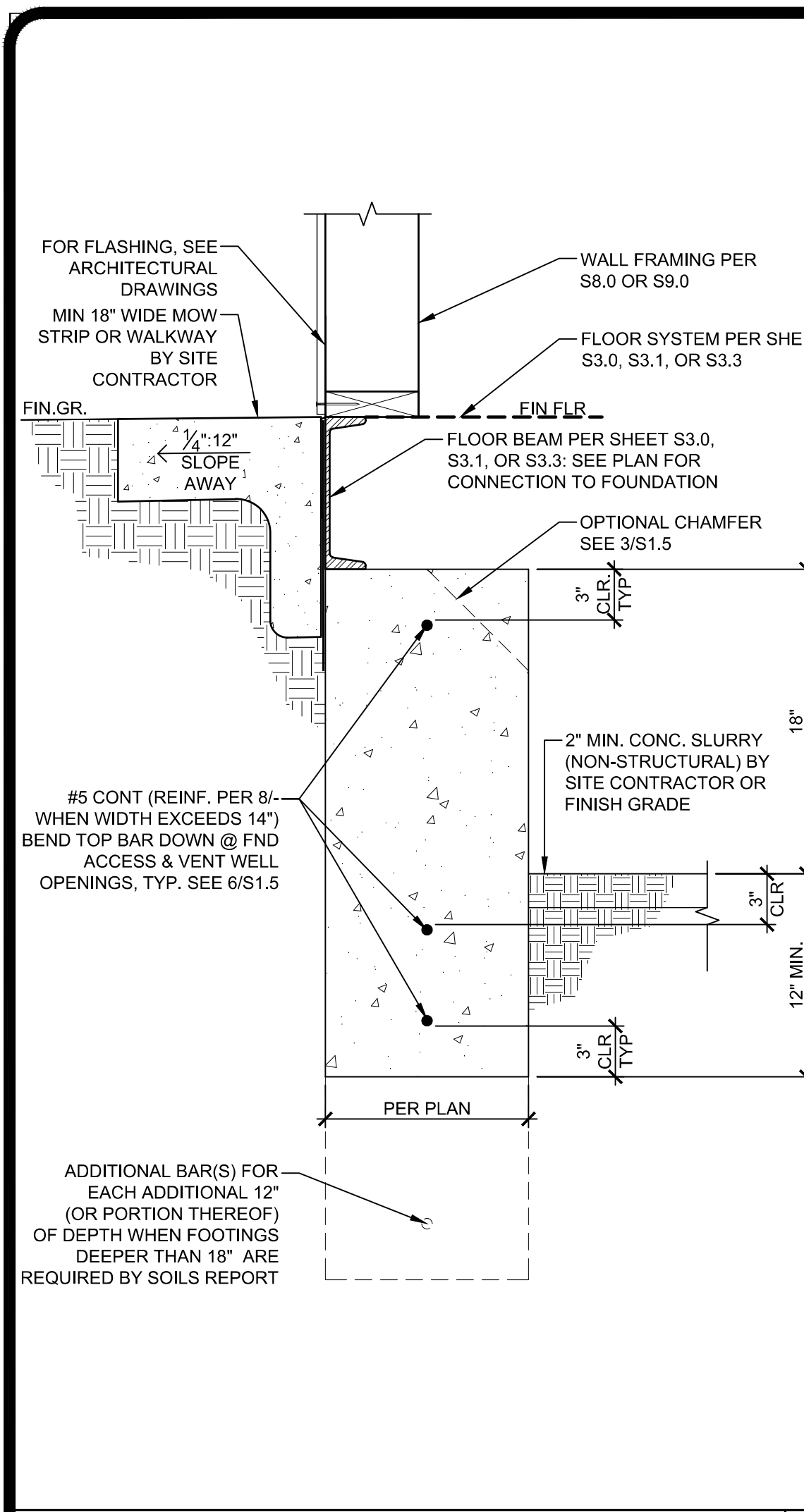
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REVISIONS

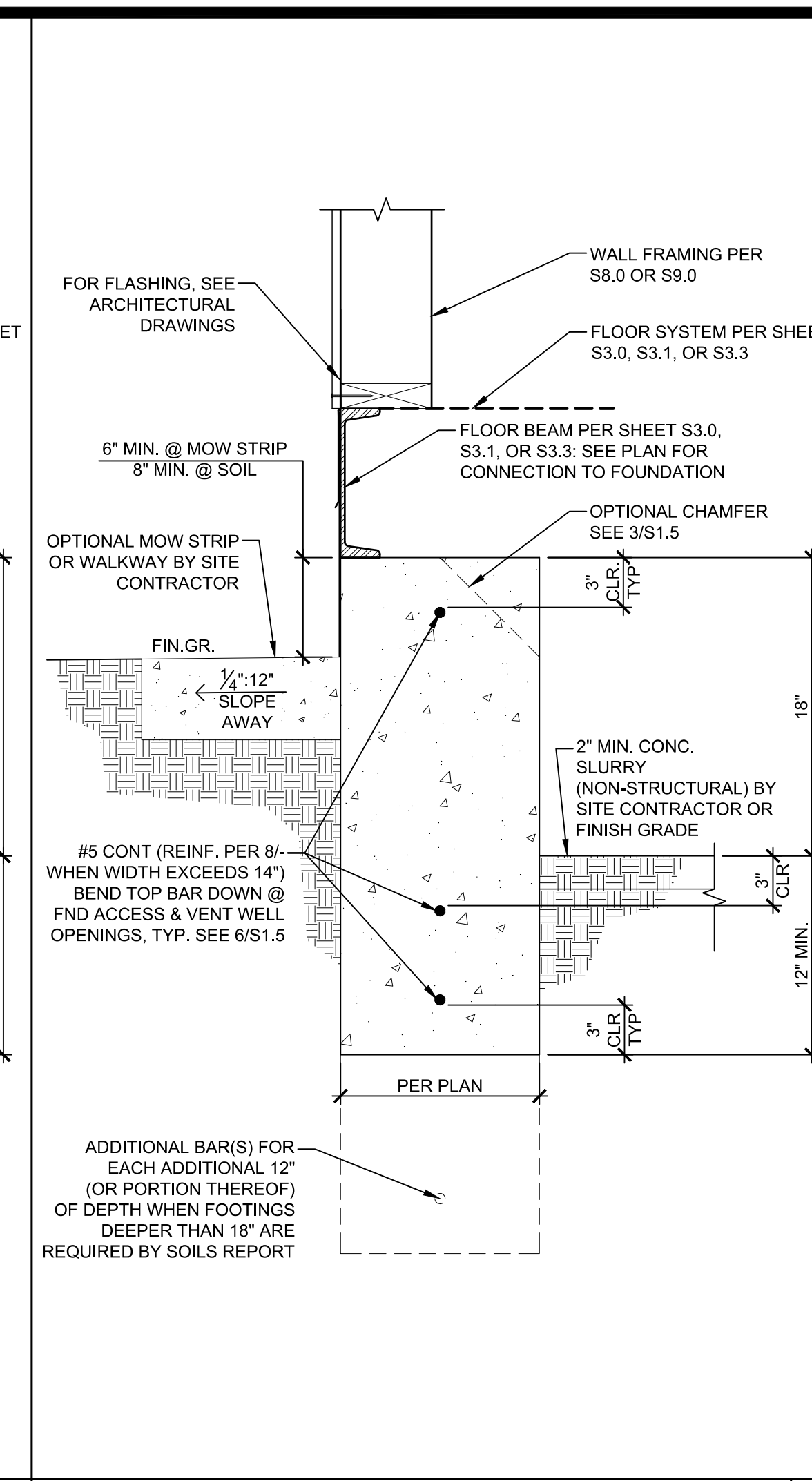
DRAWN BY: AA
 SCALE: AS NOTED
 DATE: MM/DD/YYYY
 PROJECT NO: XXXX-20
 SHEET TITLE:

CONCRETE FOUNDATION PLANS
CONCRETE FLOORS
(100 PSF MAX FLOOR LIVE LOAD)

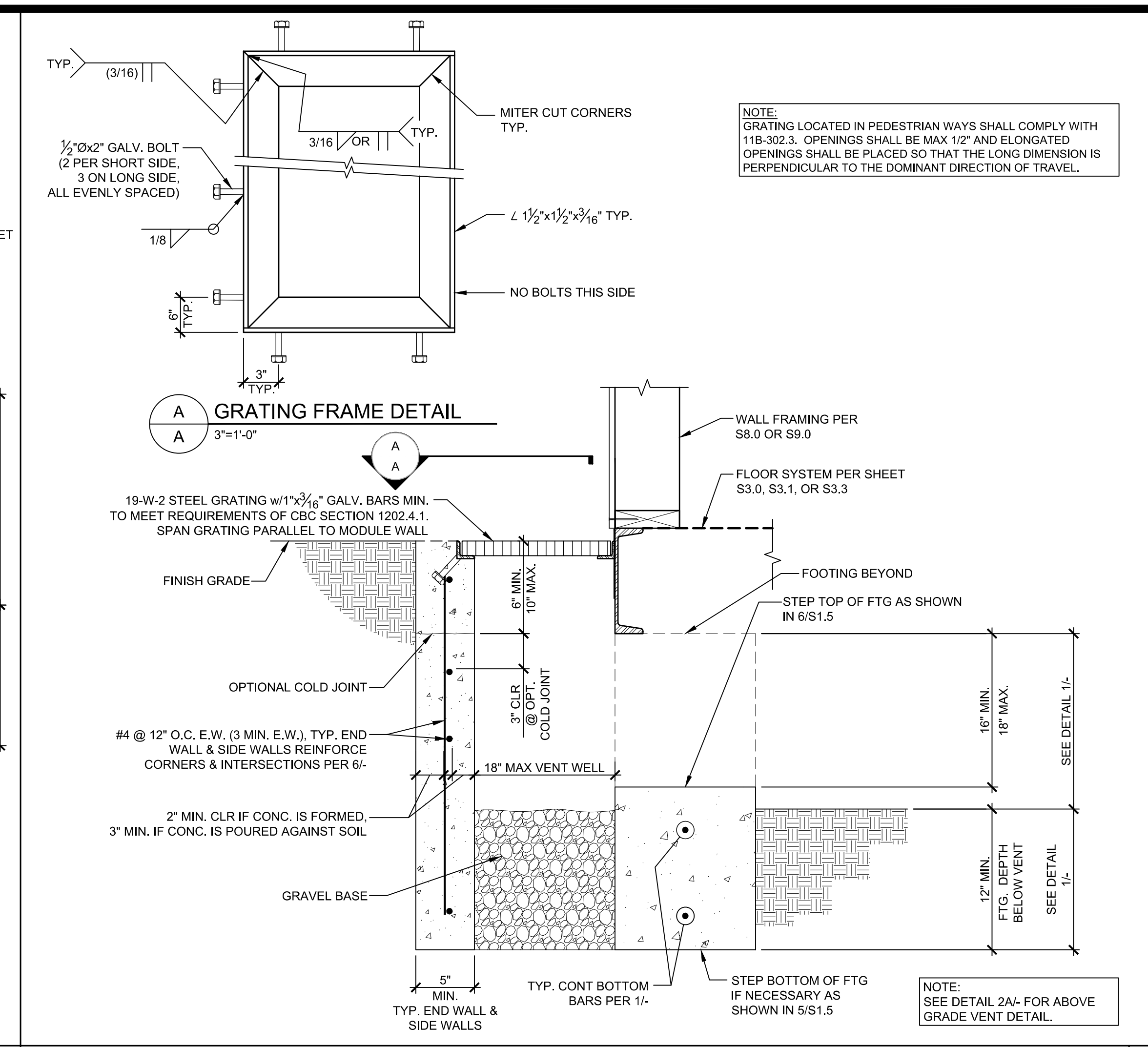
SHEET NUMBER:
S1.0



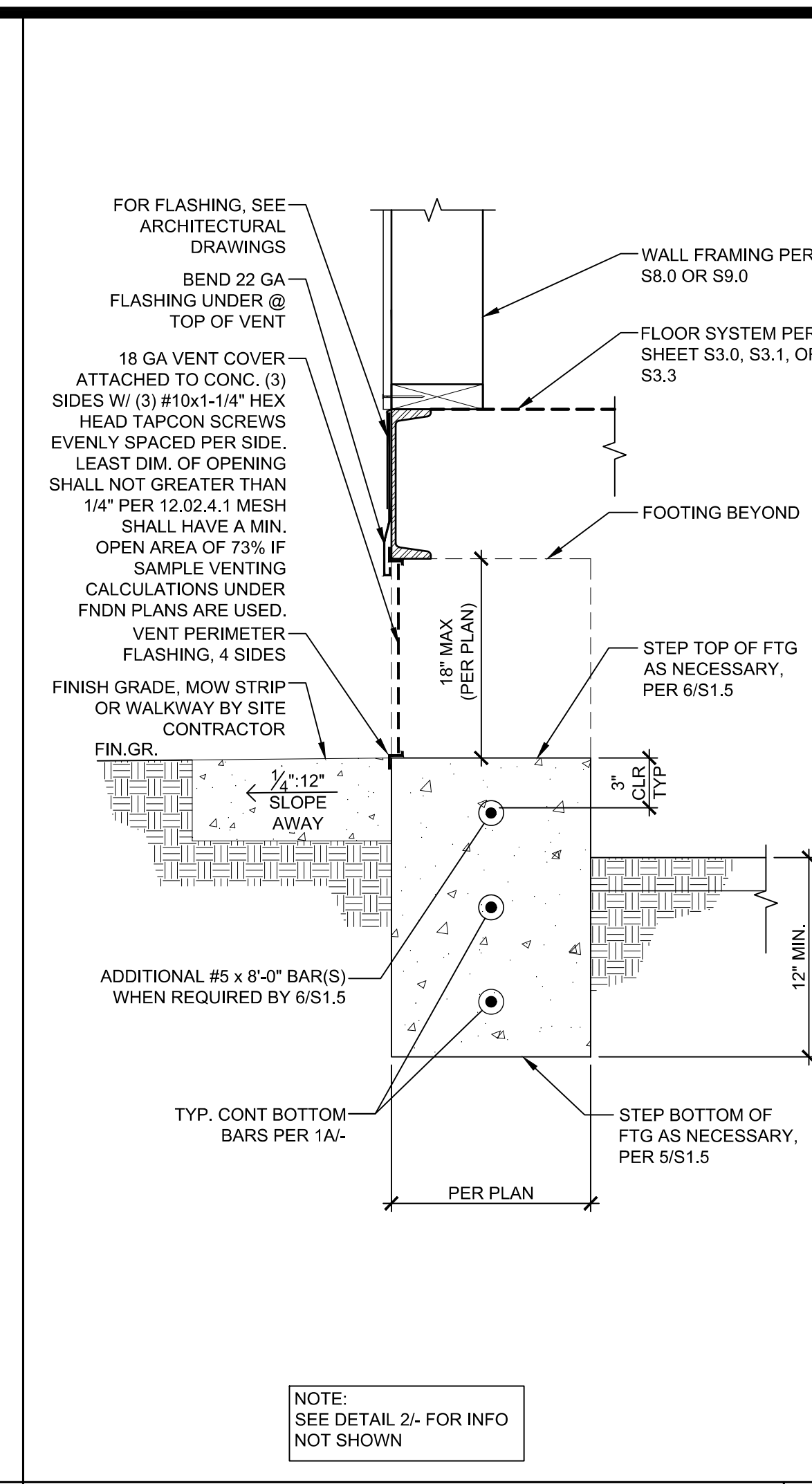
1 TYP. FOOTING - BELOW GRADE SCALE: 1-1/2" = 1'-0"



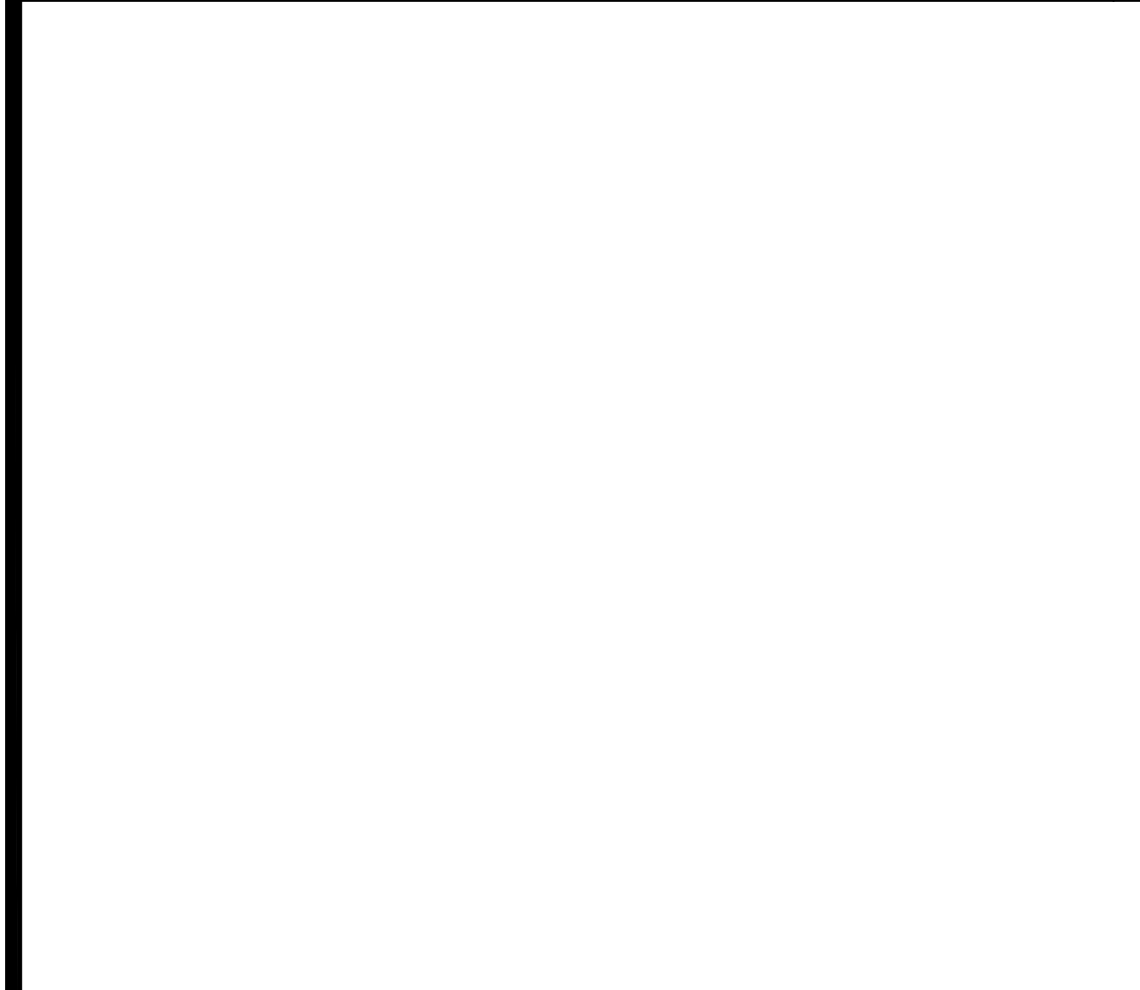
1A TYP. FOOTING - ABOVE GRADE SCALE: 1-1/2" = 1'-0"



2 TYP. VENT DETAIL - BELOW GRADE SCALE: 1-1/2" = 1'-0"



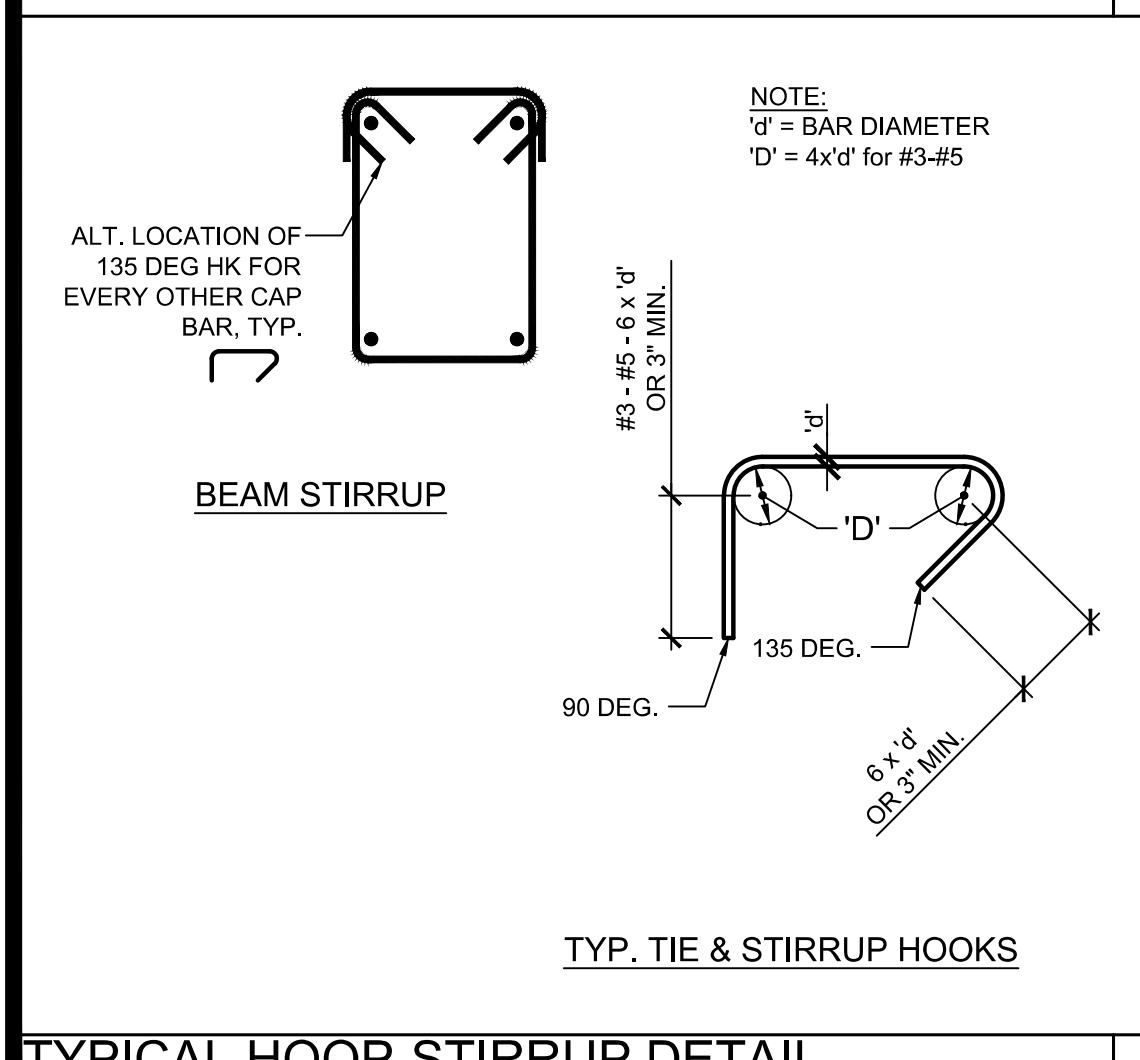
2A TYP. VENT DETAIL - ABOVE GRADE SCALE: 1-1/2" = 1'-0"



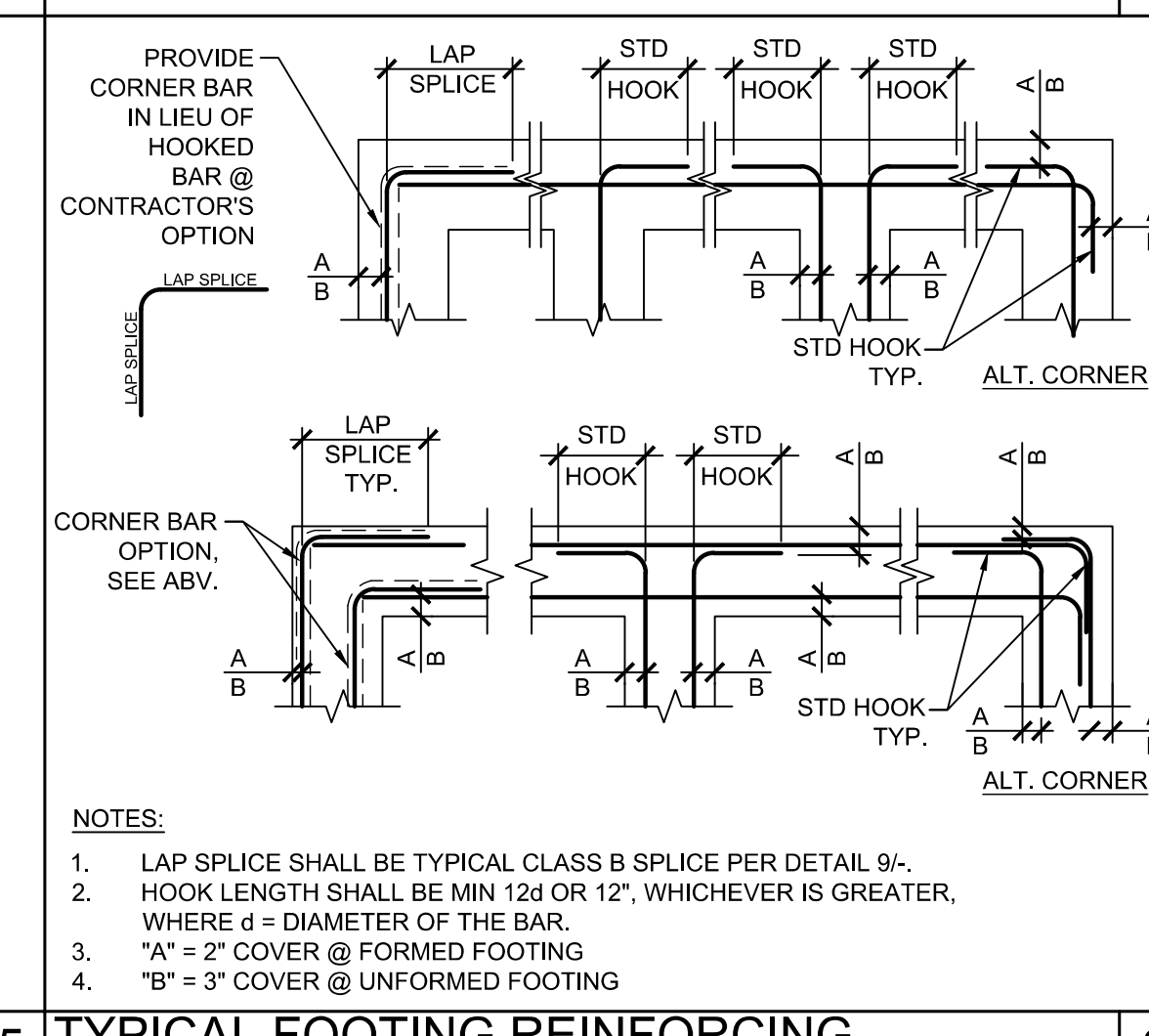
3 NOT USED



3A NOT USED



5 TYP. HOOP-STIRRUP DETAIL SCALE: 1-1/2" = 1'-0"

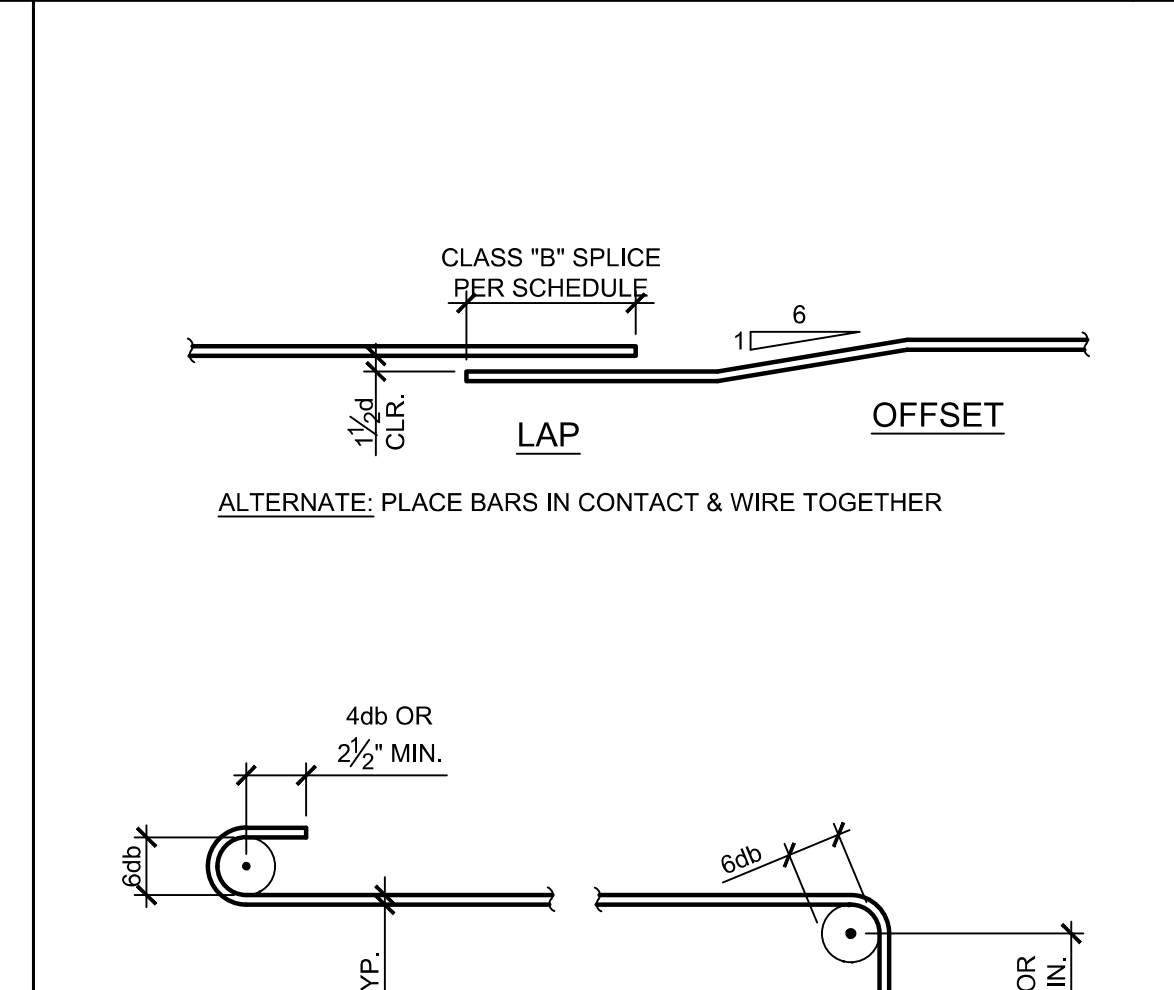


6 TYPICAL FOOTING REINFORCING SCALE: 1-1/2" = 1'-0"

REINFORCING SCHEDULE

FOOTING WIDTH (IN.)	CONTINUOUS LONGITUDINAL REINFORCING (EACH HORIZ. LEVEL)	TRANSVERSE REINFORCING (EACH HORIZ. LEVEL)
12"	(1) #5	NOT REQ'D
12" < W ≤ 16"	(1) #6	#4 @ 24" O.C.
16" < W ≤ 24"	(2) #5	#4 @ 24" O.C.
24" < W ≤ 36"	(3) #5	#4 @ 24" O.C.
36" < W ≤ 48"	(4) #5	#4 @ 24" O.C.

6 REINFORCEMENT WHEN FOOTING EXCEEDS 12"



BAR SIZE #	DEVELOPMENT LENGTH ³			TYPICAL CLASS B LAP SPLICE LENGTH ⁴					
	3000 PSI (IN)	3500 PSI (IN)	4000+ PSI (IN)	3000 PSI		3500 PSI		4000+ PSI	
				TOP ² (IN)	BOTTOM (IN)	TOP ² (IN)	BOTTOM (IN)	TOP ² (IN)	BOTTOM (IN)
3	13	12	12	21	16	20	16	20	16
4	17	16	15	28	22	26	20	24	19
5	21	20	18	35	27	33	25	30	24
6	25	23	22	42	32	39	30	36	28

NOTES:
1. THE ABOVE TABLE IS BASED ON GRADE 60 STEEL.
2. TOP BARS ARE ANY BARS WITH MORE THAN 12" OF CONCRETE PLACED BELOW.
3. DEVELOPMENT LENGTH IS CALCULATED FOR TYP. BARS - $\psi_t = 1.0$
4. LAP SPLICES IN ADJACENT BARS SHALL BE STAGGERED, UNLESS OTHERWISE NOTED.

8 TYP. REINFORCING LAPS & BENDS SCALE: 1-1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120247 INC:
REVIEWED FOR
SS FLS ACS
DATE: 06/24/2022

AMS
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119274 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 02/02/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
(A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED)
MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENCED ARCHITECT
PATRICIA CONWAY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCO
No. D1380
Exp. 03/31/22
STATE OF CALIFORNIA

REVISIONS

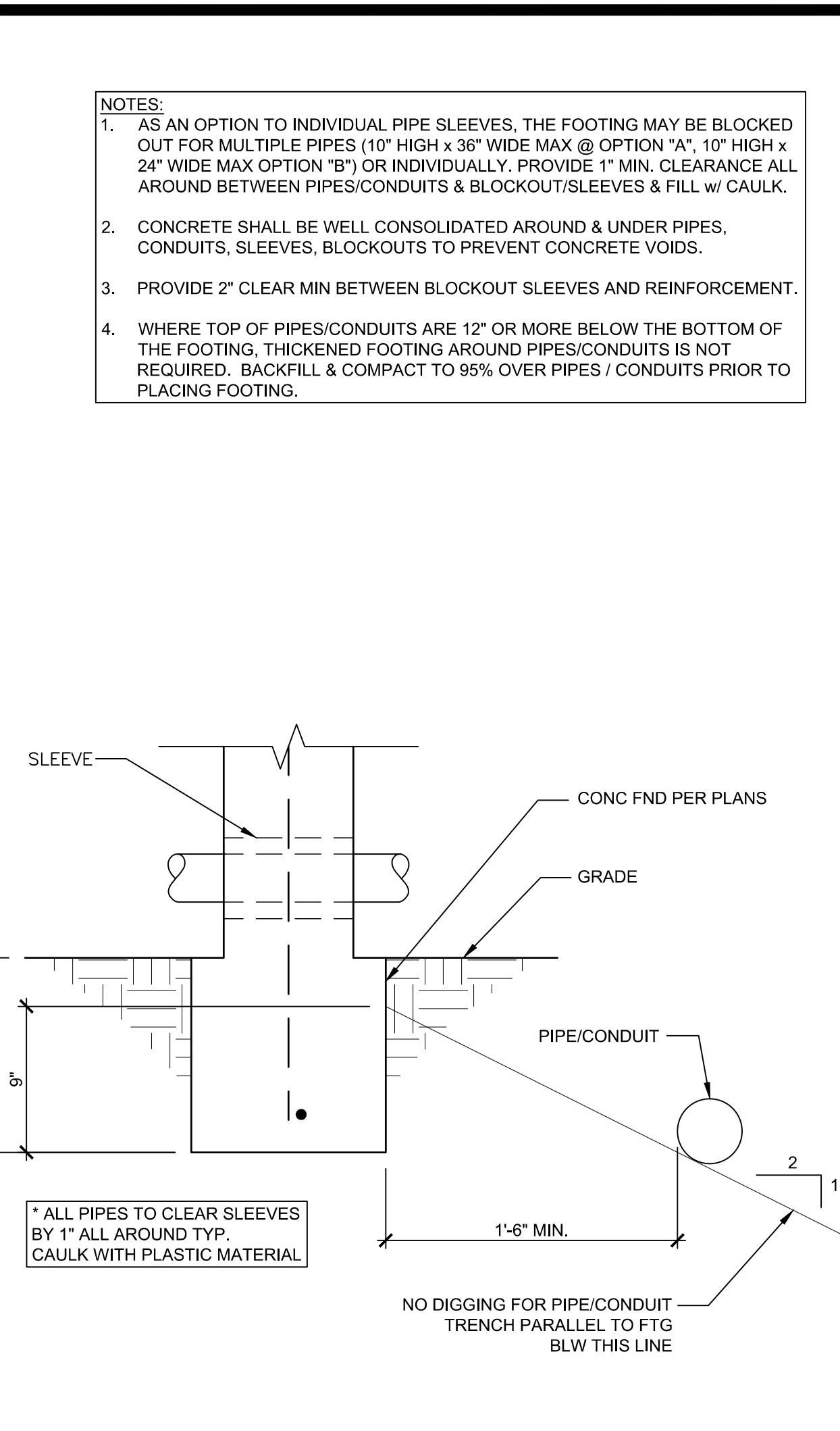
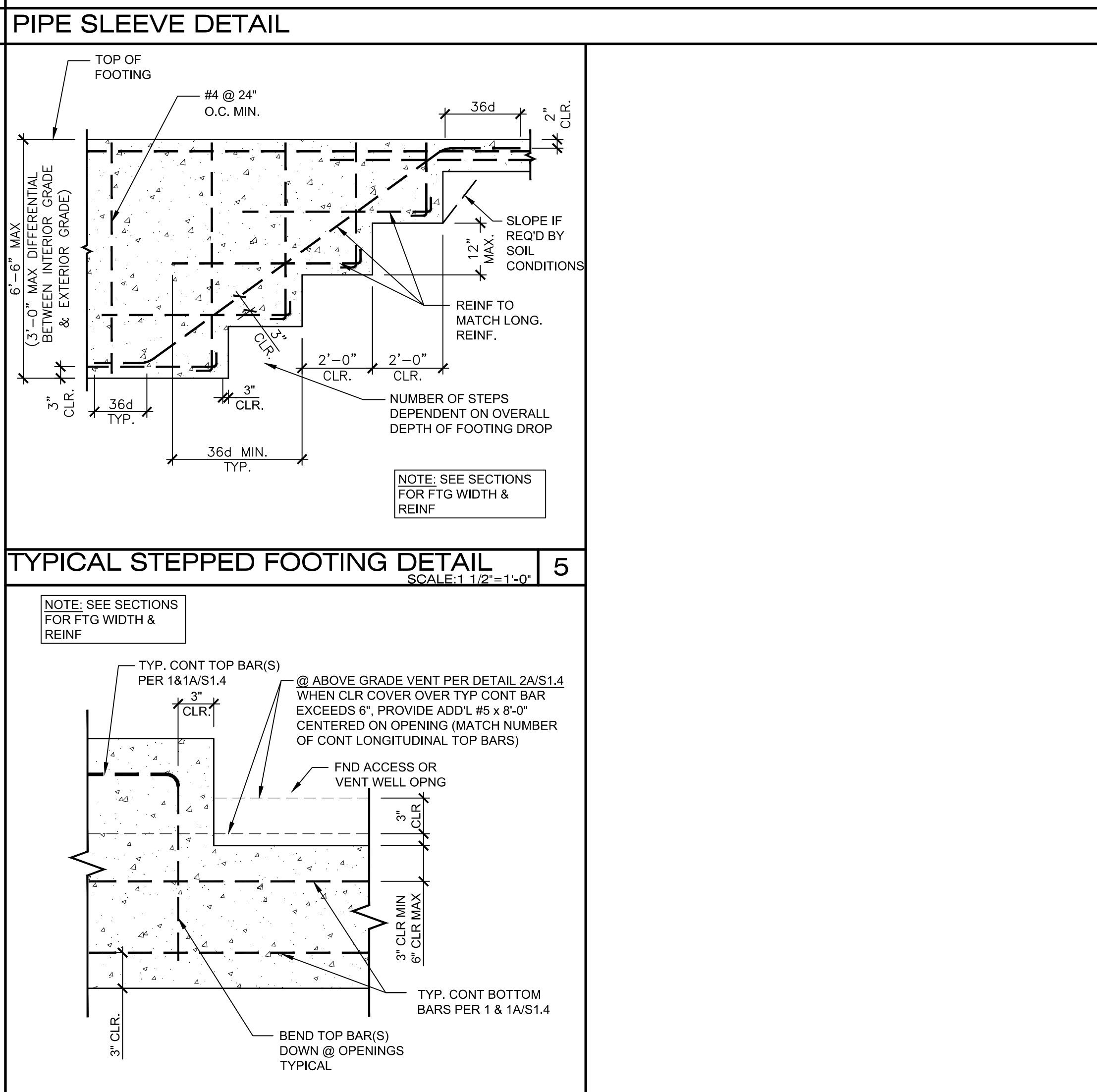
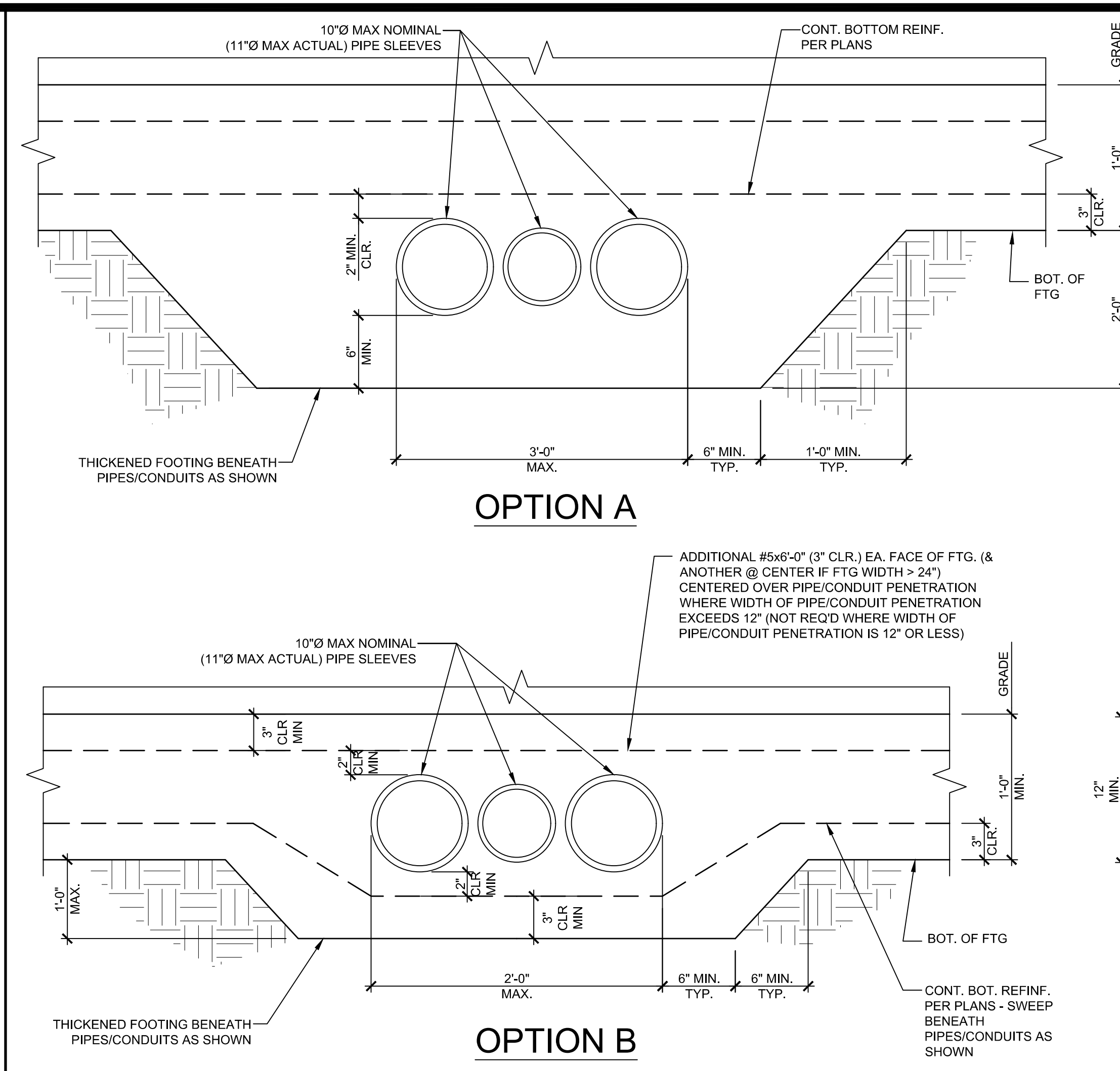
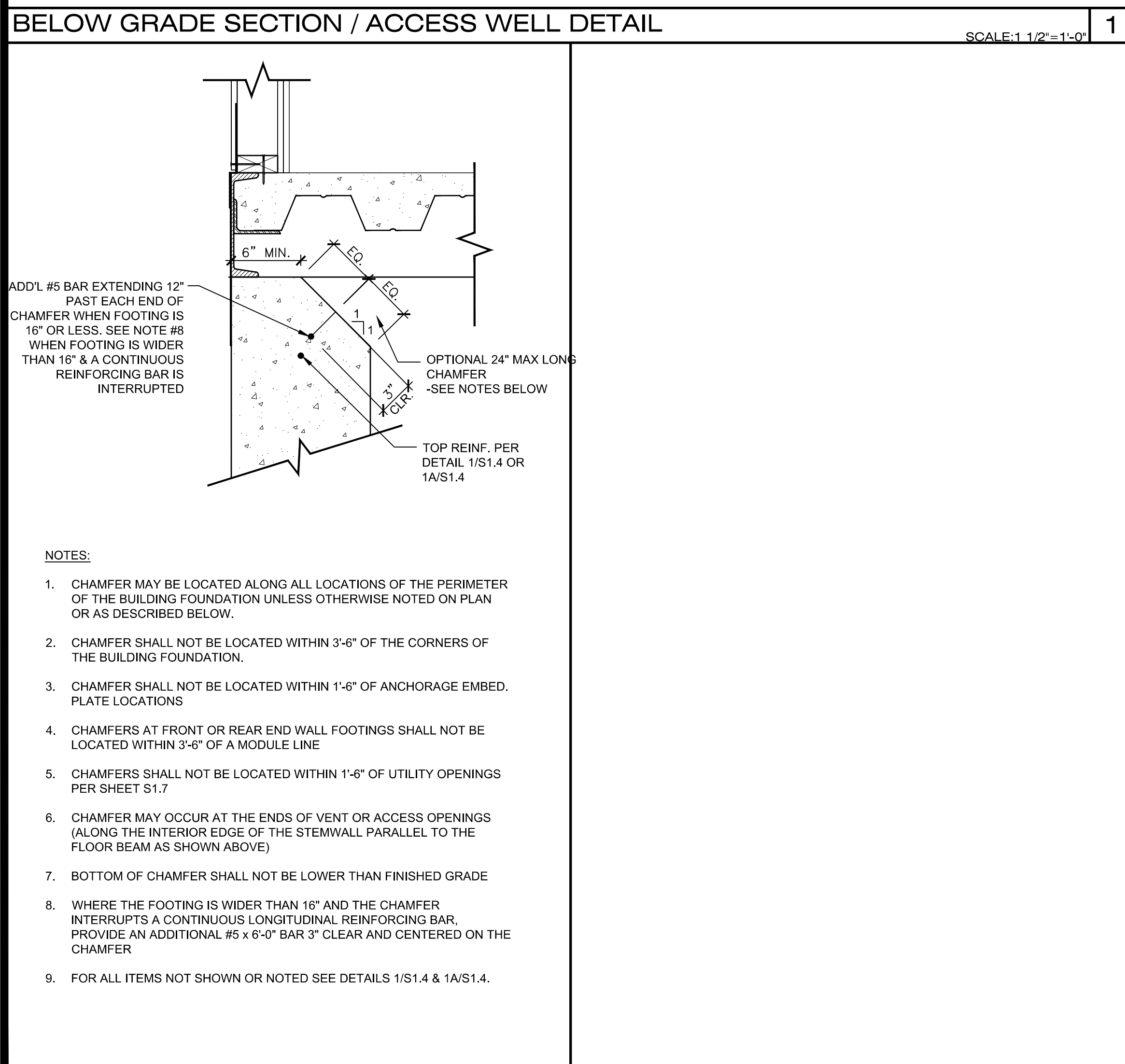
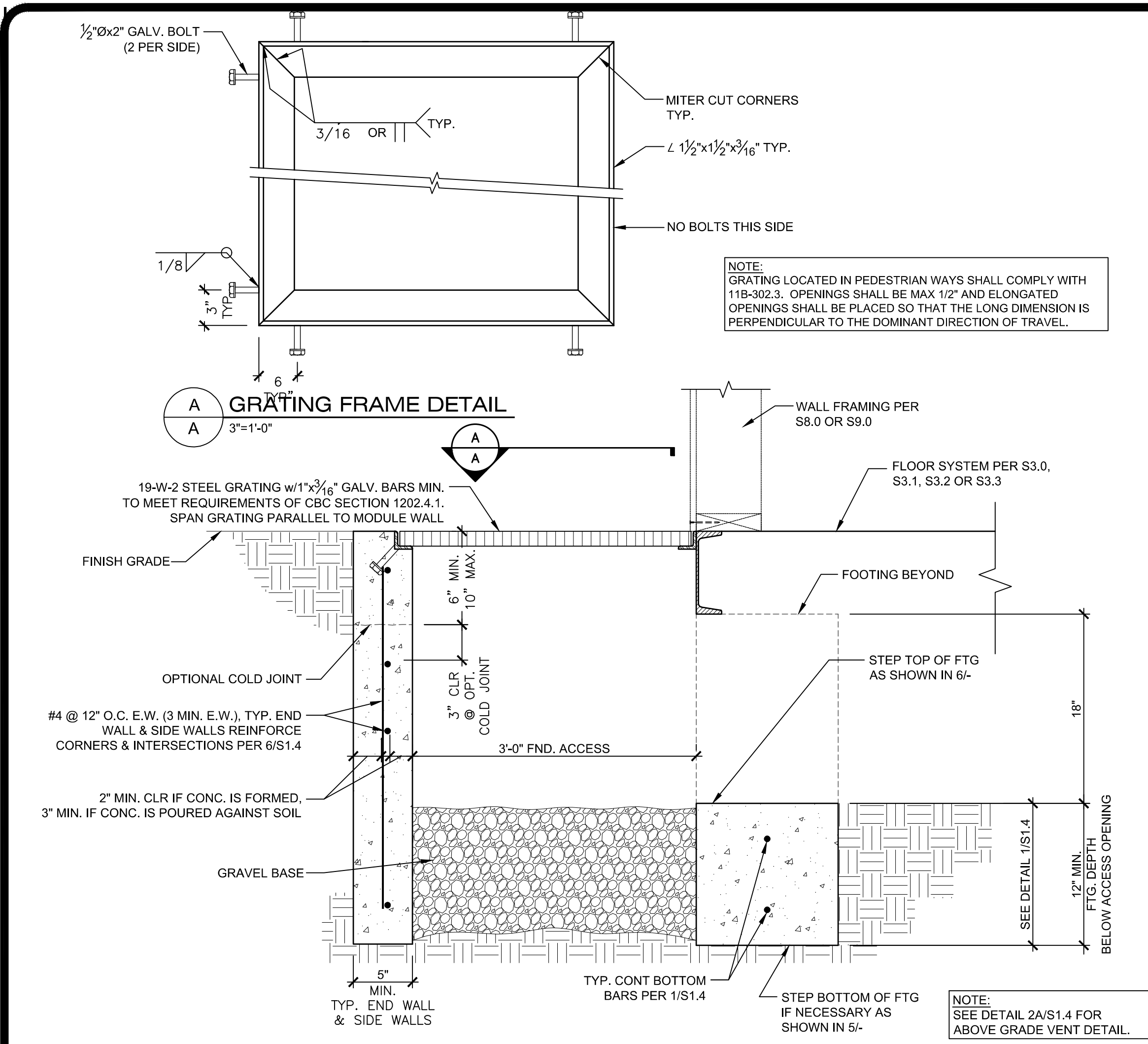
NO.	DATE	DESCRIPTION

CONCRETE FOUNDATION DETAILS

DRAWN BY: AA
SCALE: AS NOTED
DATE: MMDDYY
PROJECT NO: XXXX-20
SHEET TITLE: CONCRETE FOUNDATION DETAILS
SHEET NUMBER:

8 TYP. REINFORCING LAPS & BENDS SCALE: 1-1/2" = 1'-0"

S1.4



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12' x 40' STANDARD MODULAR BUILDING

FORM

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APP: 02-119274 PC
REVIEWED FOR:
SS FLS ACS CG
DATE: 02/02/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
(A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.)
MANUFACTURER PROFESSIONAL OF RECORD ON PC

Licensed Architect
PATRICK CANNON
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRIEDMAN
No. 5180
Exp. 07/31/22
STATE OF CALIFORNIA

12/21/2021
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DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:
CONCRETE FOUNDATION DETAILS
SHEET NUMBER:
S1.5

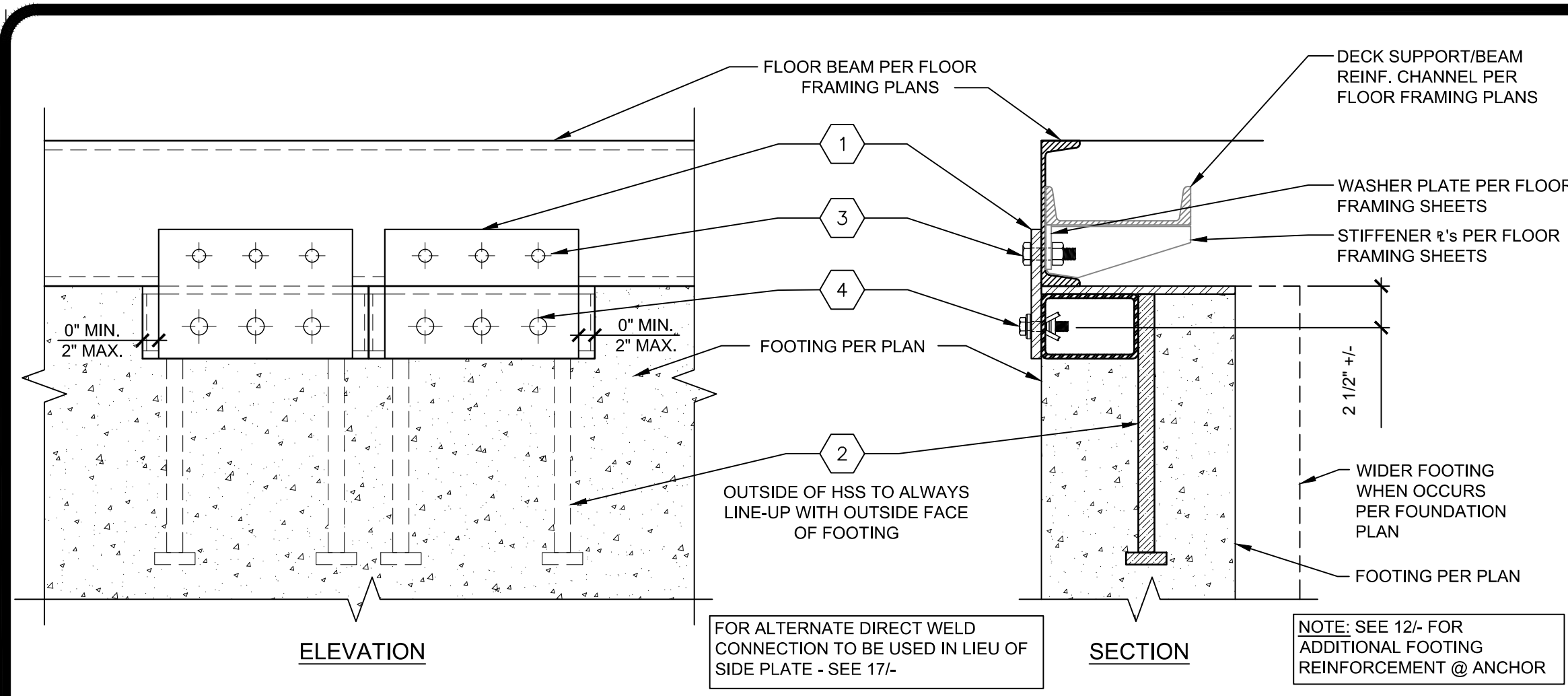
CHAMFER DETAILS @ PERIMETER 3 NOT USED

4 NOT USED

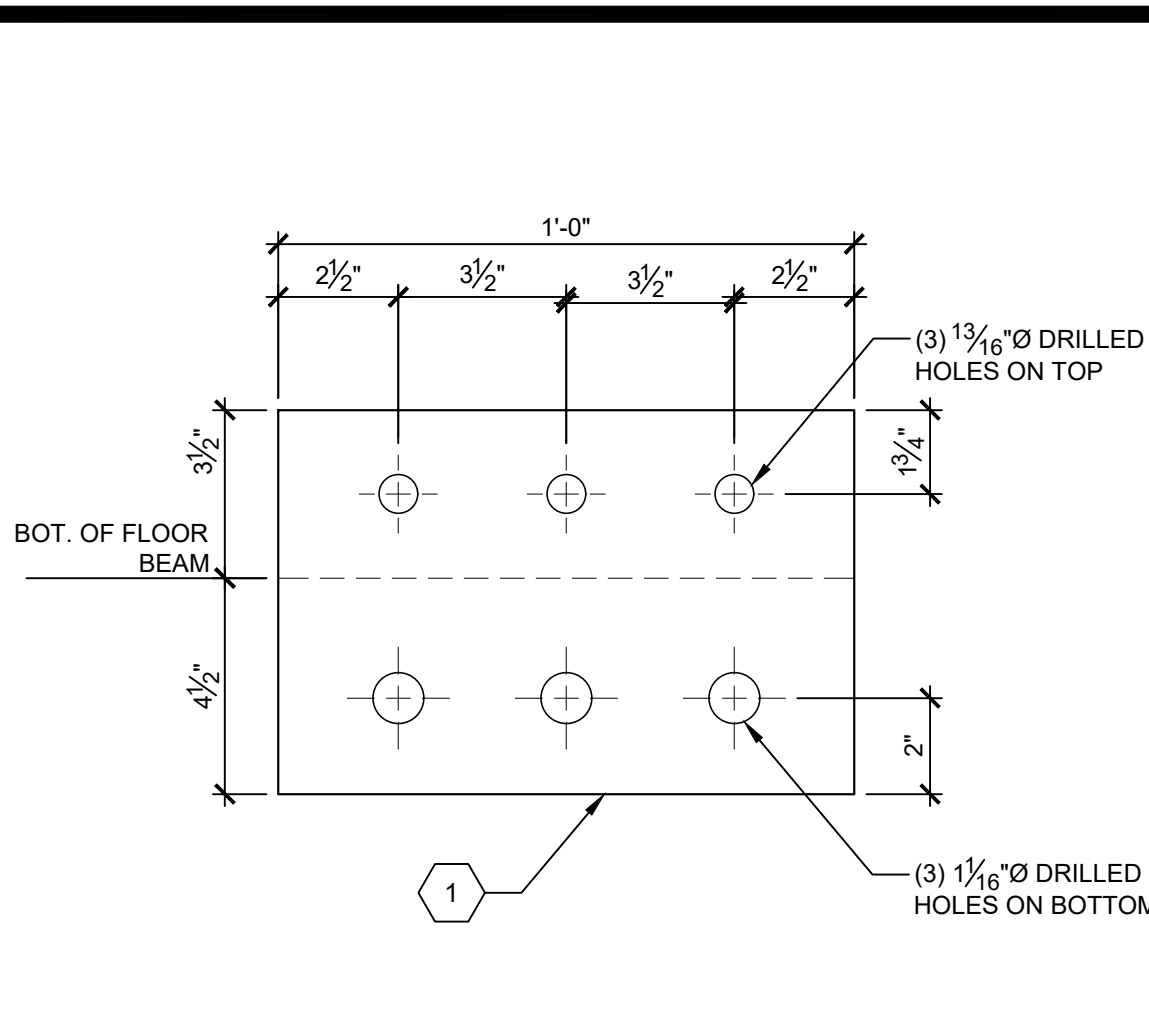
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6 NOT USED

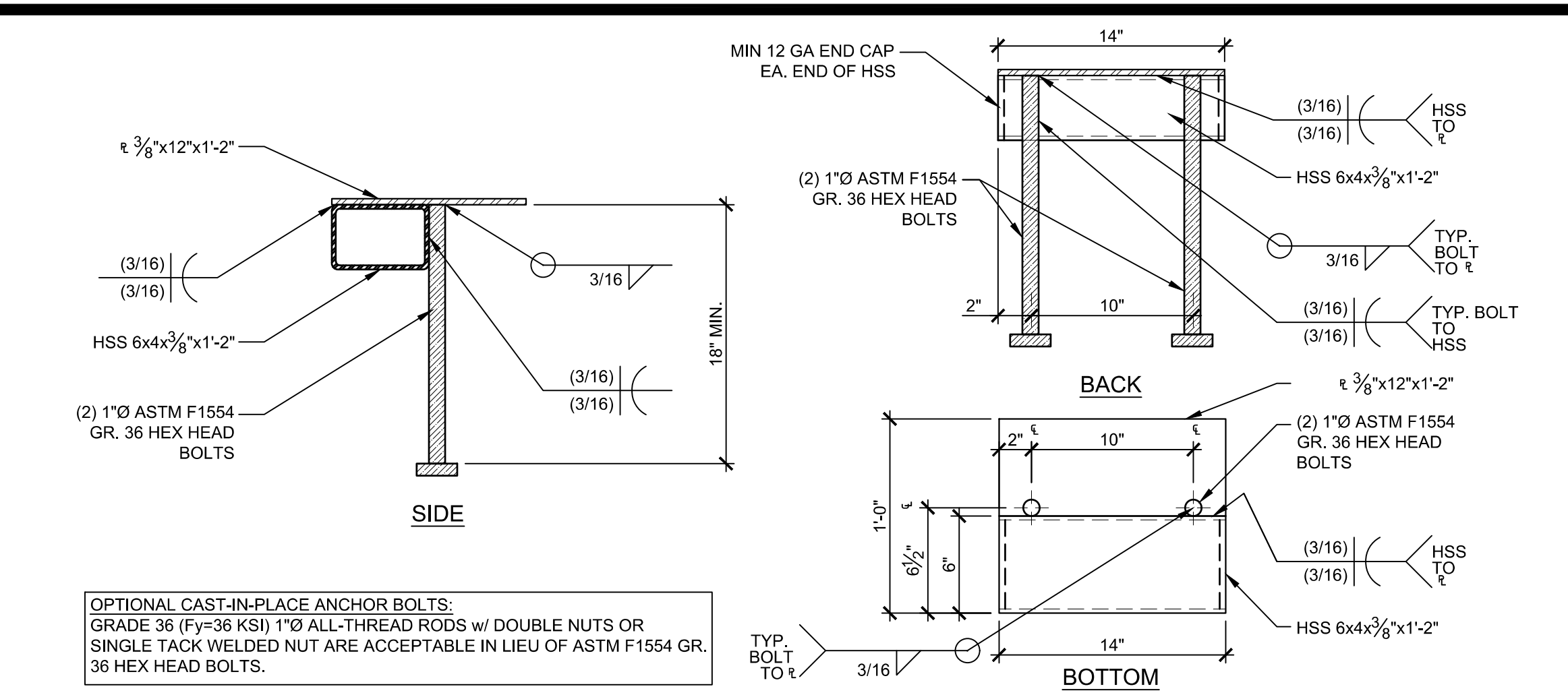
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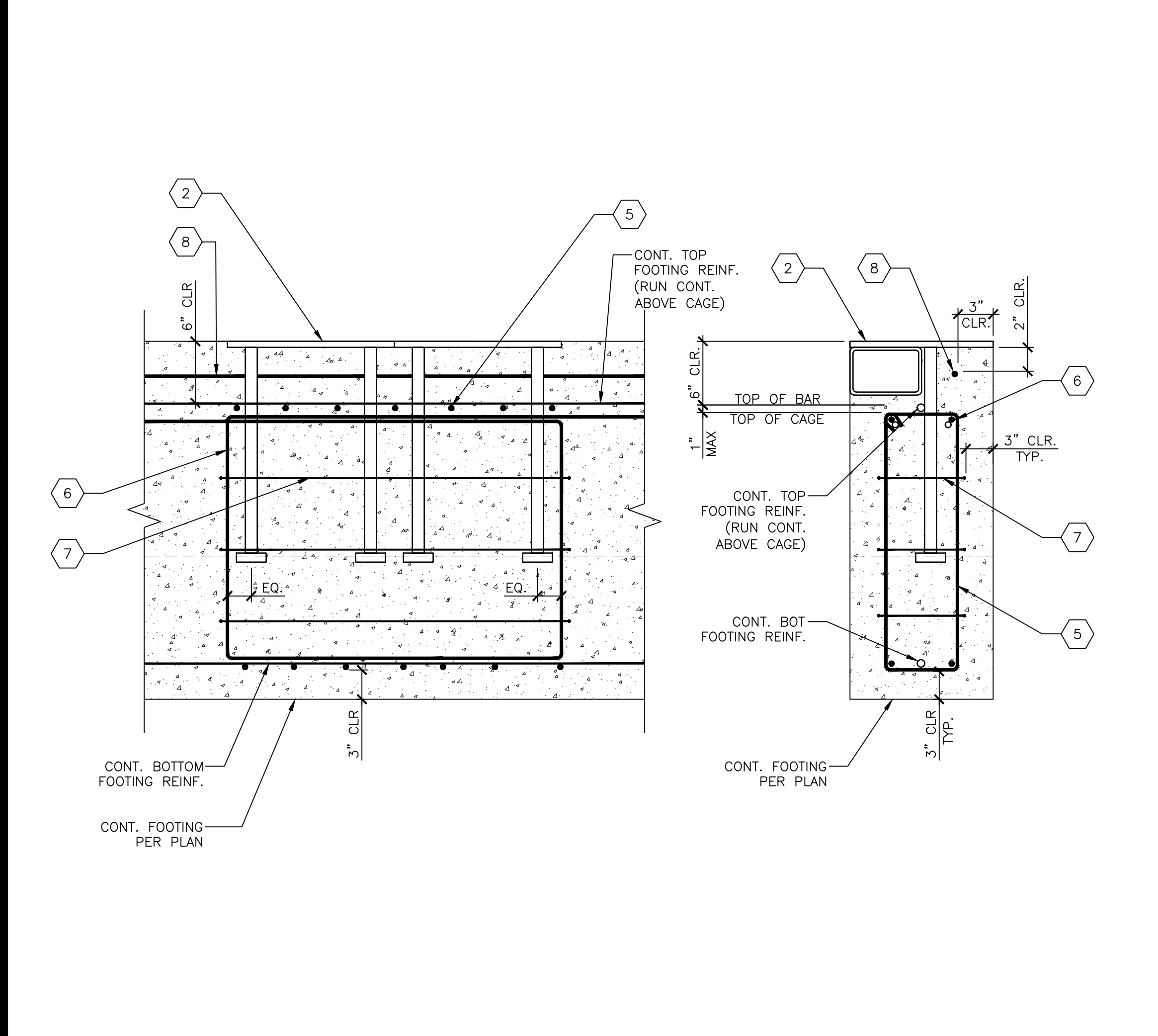
STANDARD ANCHORAGE DETAIL SCALE: 1-1/2" = 1'-0" 2



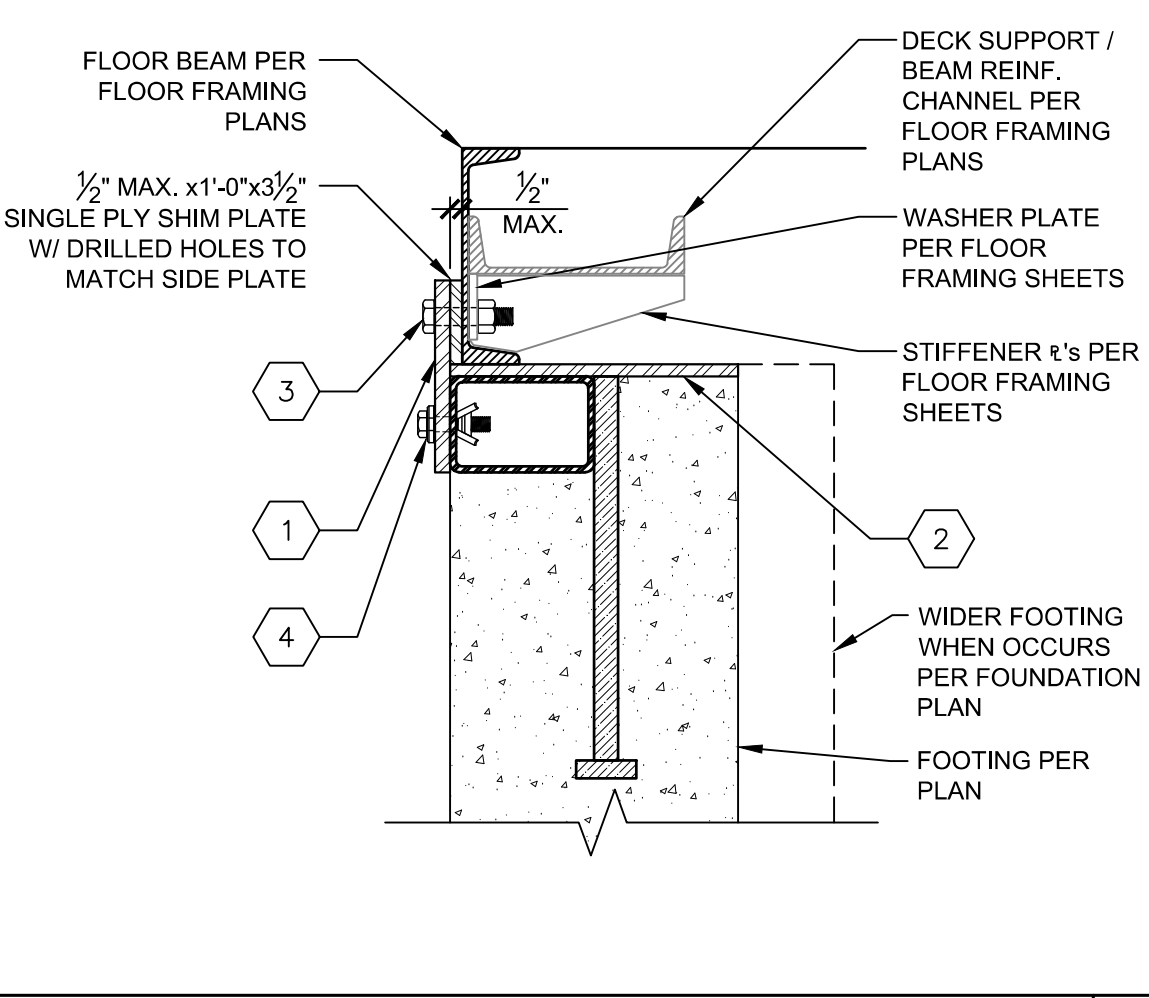
SIDE PLATE DETAIL SCALE: 3" = 1'-0" 3



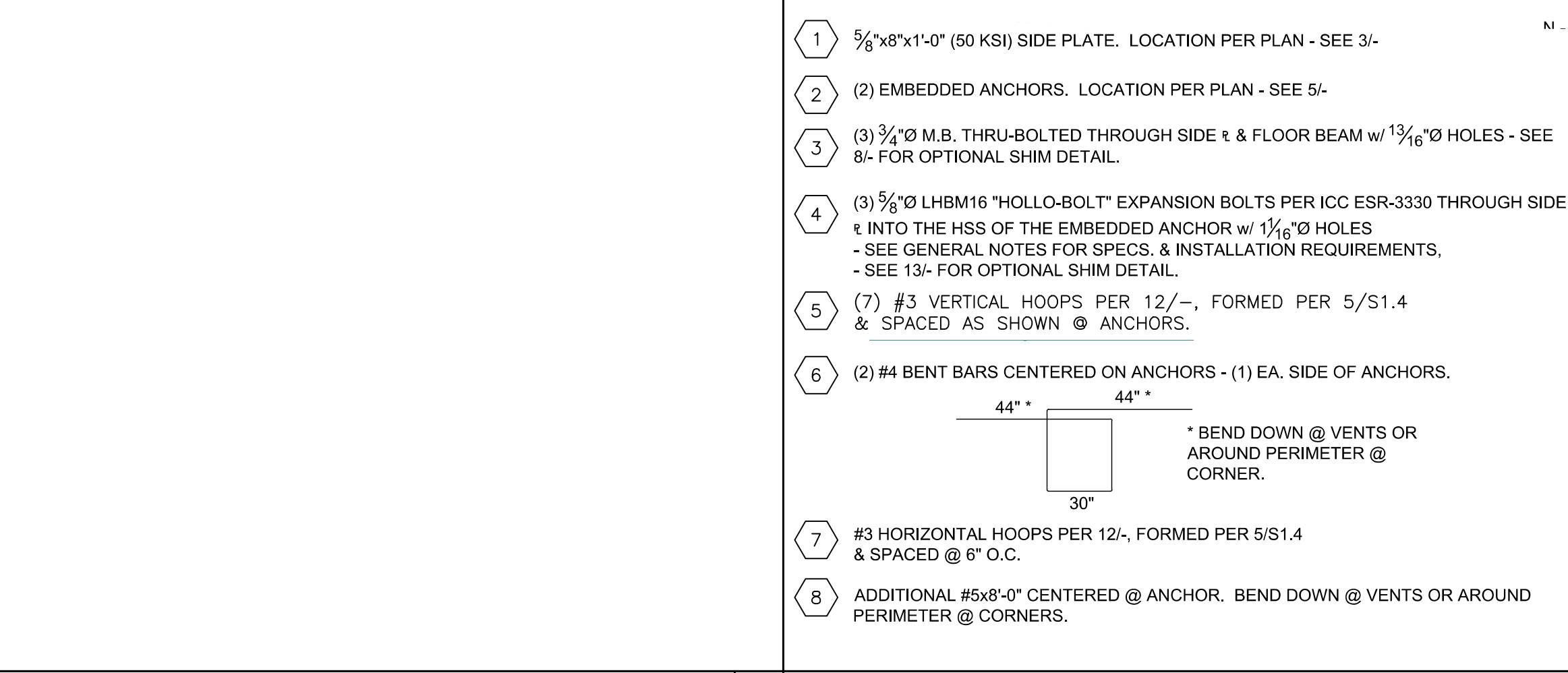
EMBEDDED ANCHOR DETAIL SCALE: 1-1/2" = 1'-0" 5



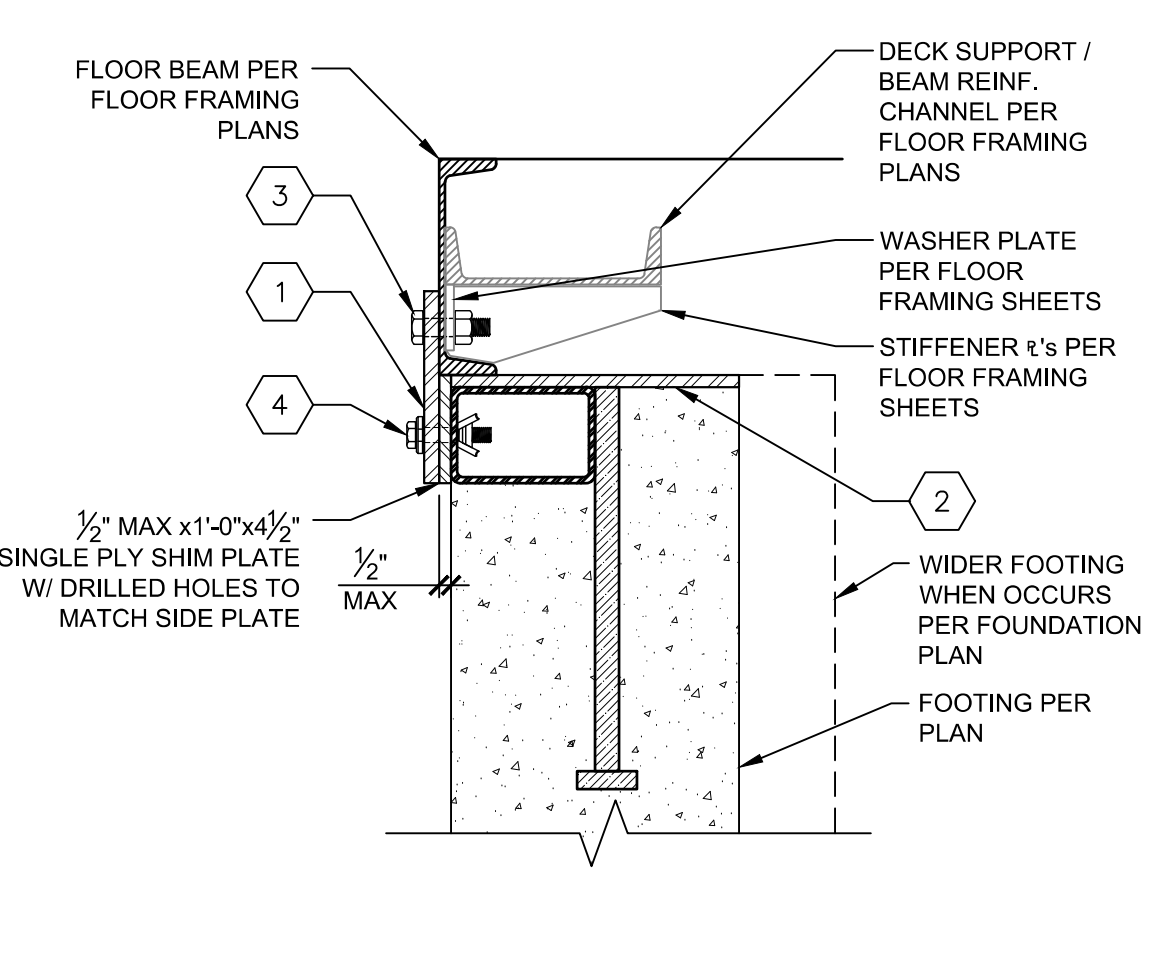
EMBEDDED ANCHOR REINFORCEMENT DETAIL SCALE: 1-1/2" = 1'-0" 12



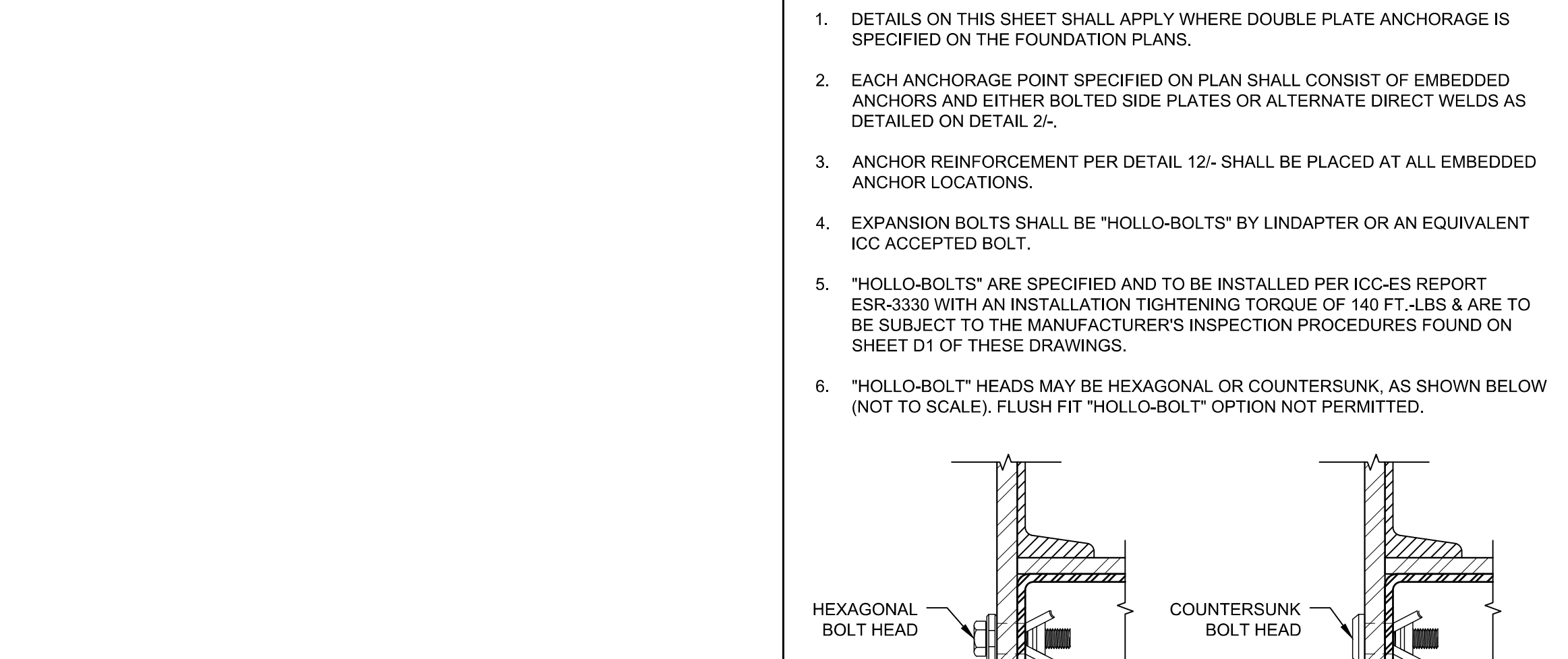
OPT. SHIM @ TOP SCALE: 1-1/2" = 1'-0" 8



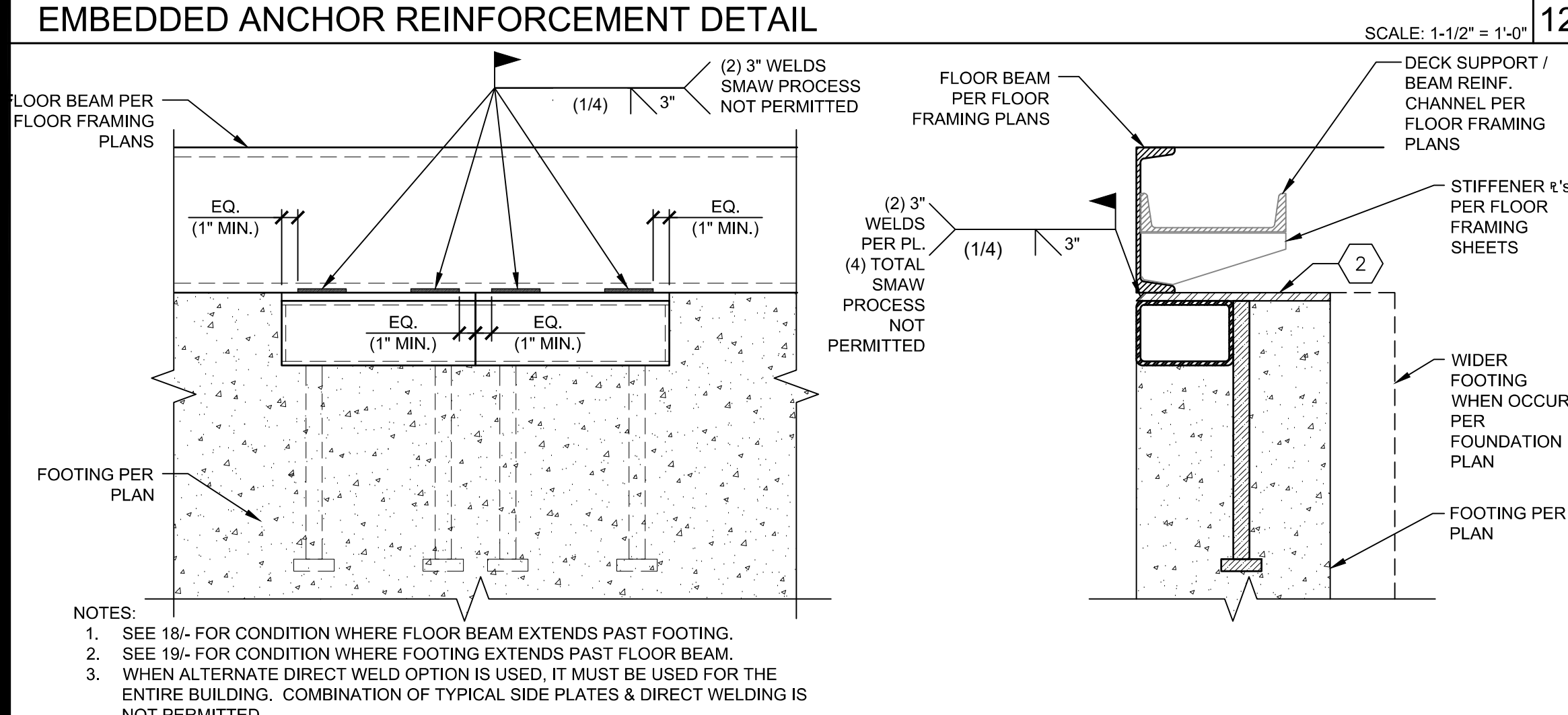
NOT USED 9



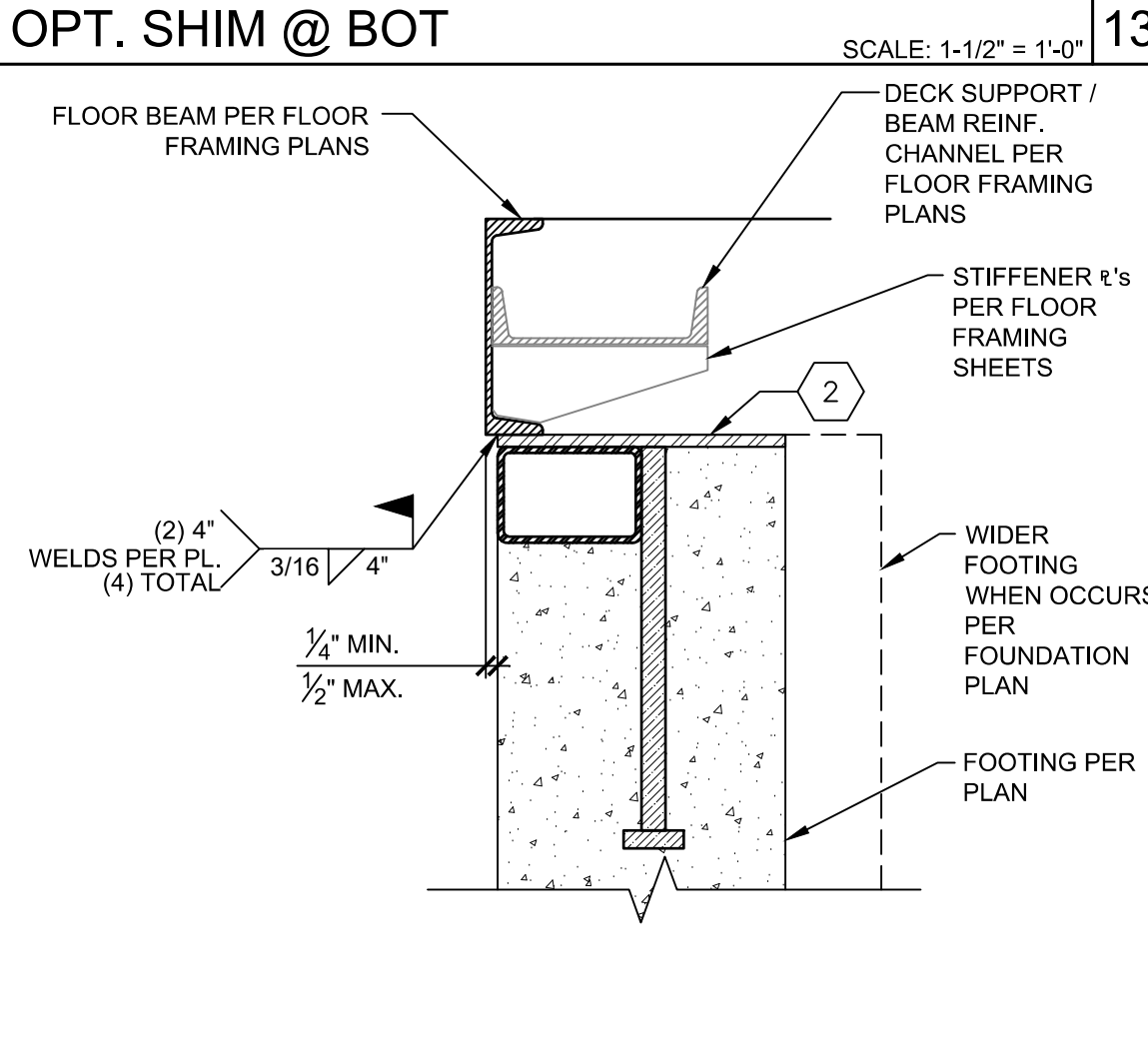
OPT. SHIM @ BOT SCALE: 1-1/2" = 1'-0" 13



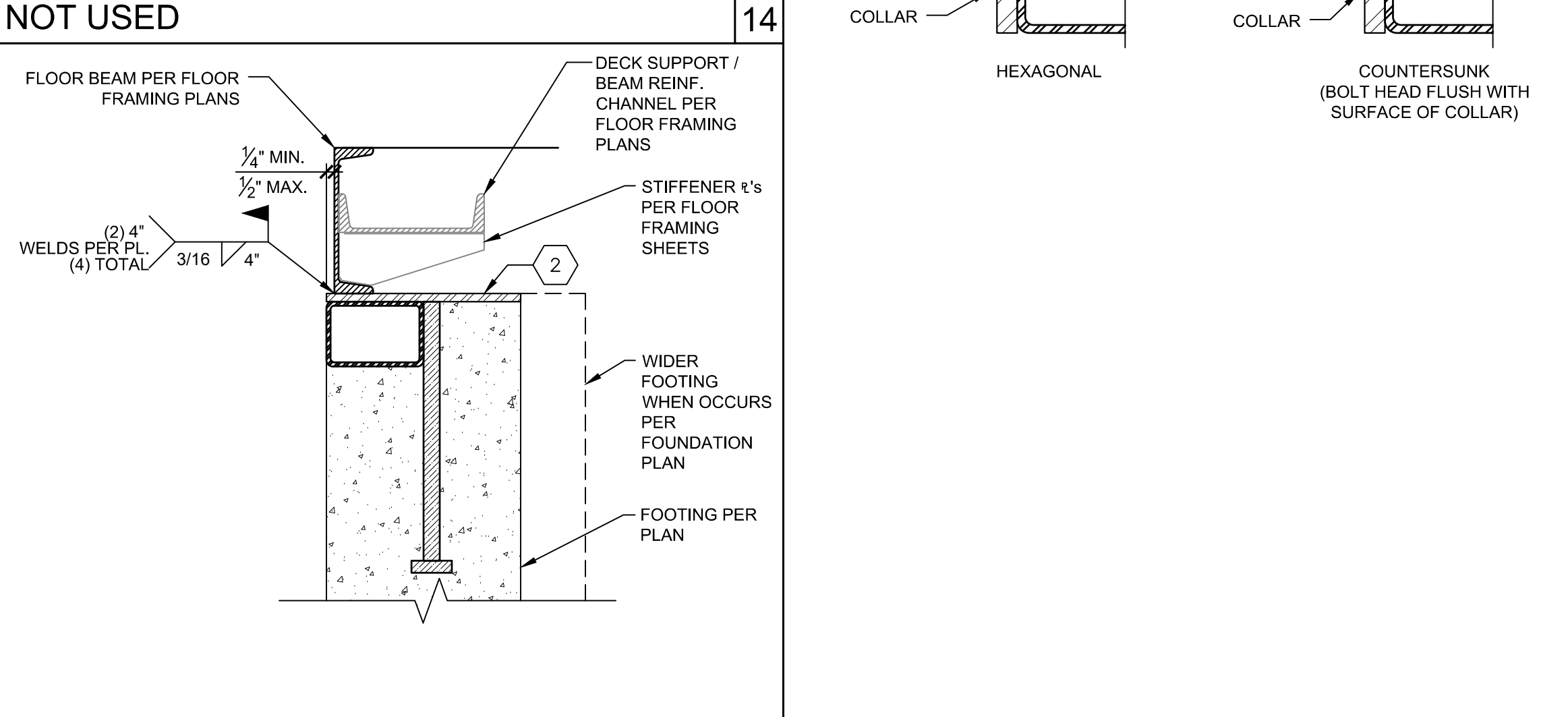
NOT USED 14



ALTERNATE DIRECT WELD CONNECTION SCALE: 1-1/2" = 1'-0" 17



ALTERNATE DIRECT WELD @ OFFSET SCALE: 1-1/2" = 1'-0" 18



ALTERNATE DIRECT WELD @ OFFSET SCALE: 1-1/2" = 1'-0" 19

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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

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DATE: 02/02/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENCED ARCHITECT
PATRICK GANNETT
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRAZEE
No. 4380
Exp. 03/31/22
STATE OF CALIFORNIA

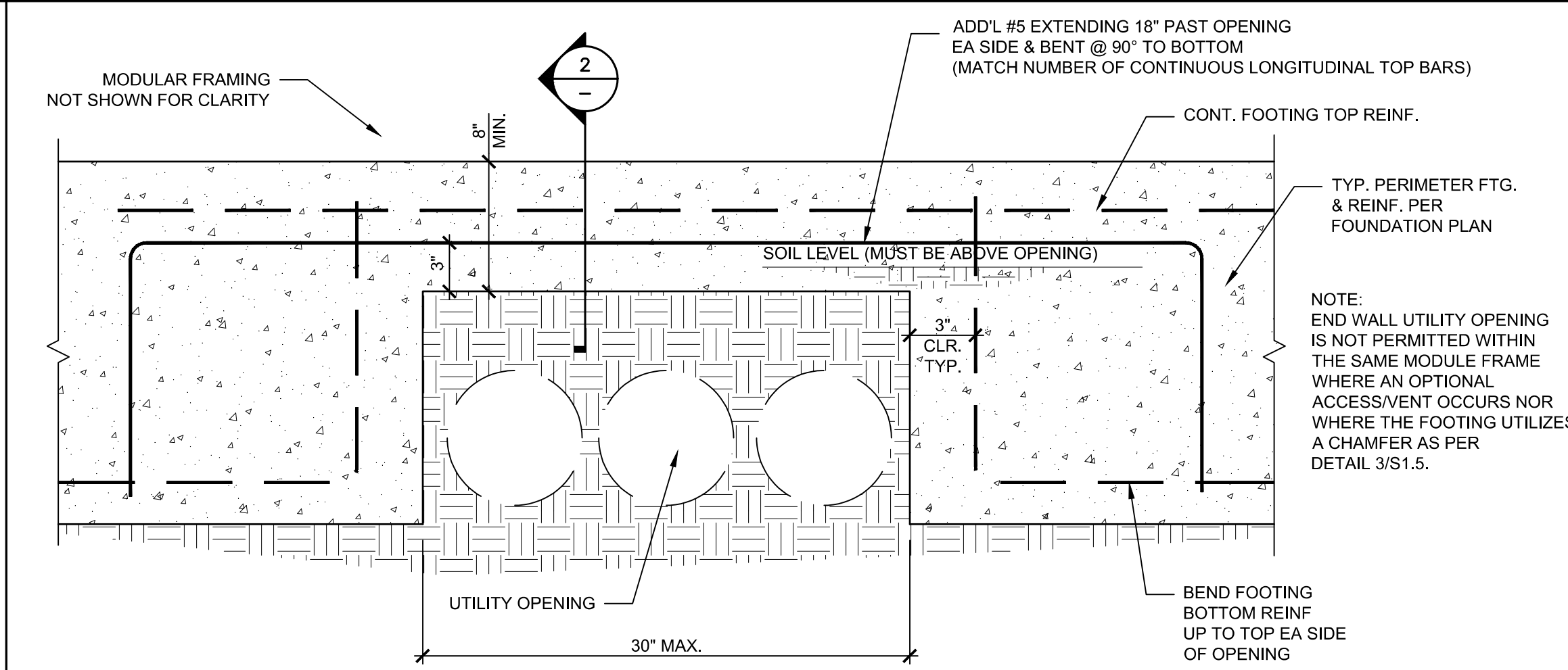
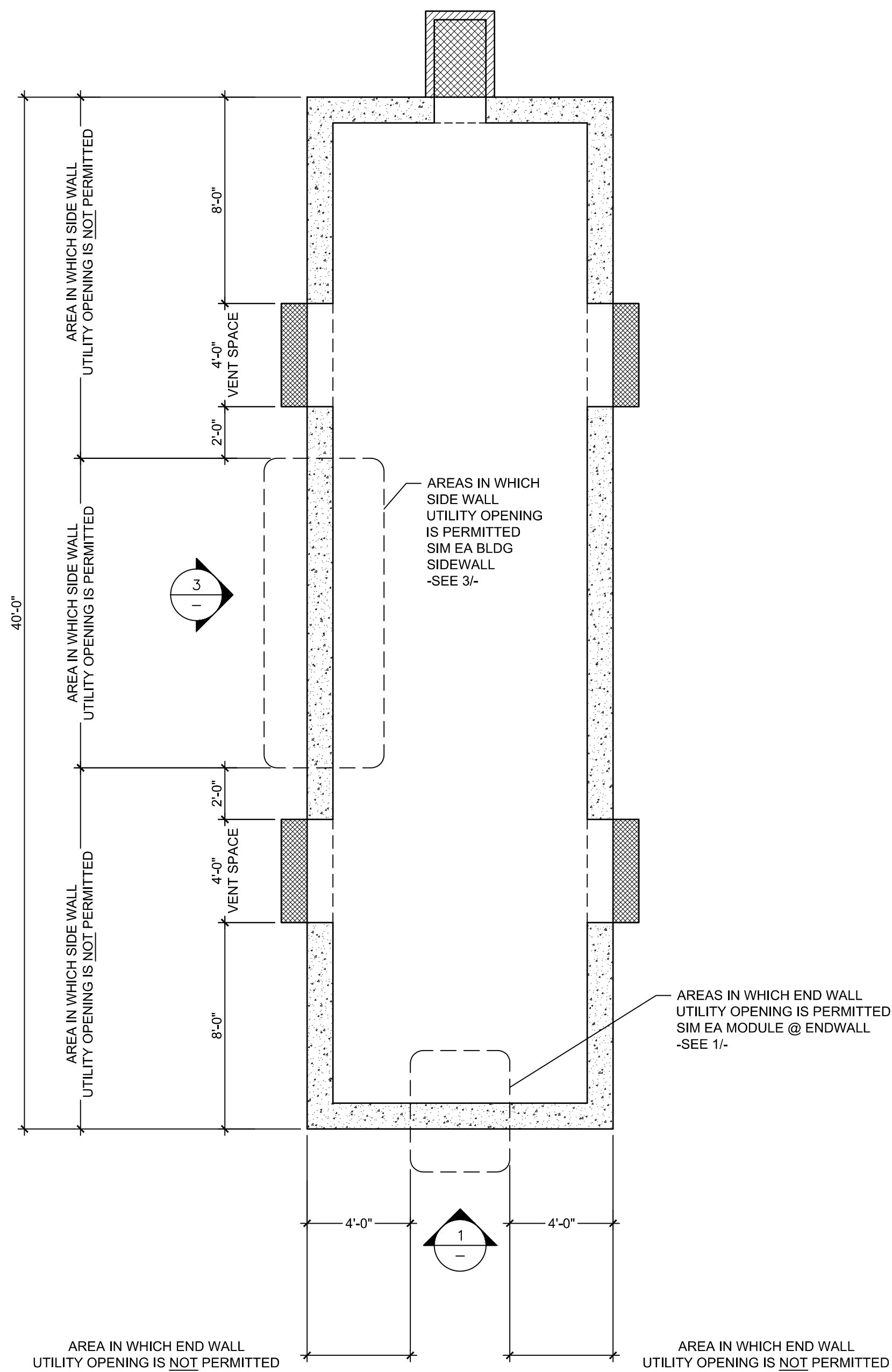
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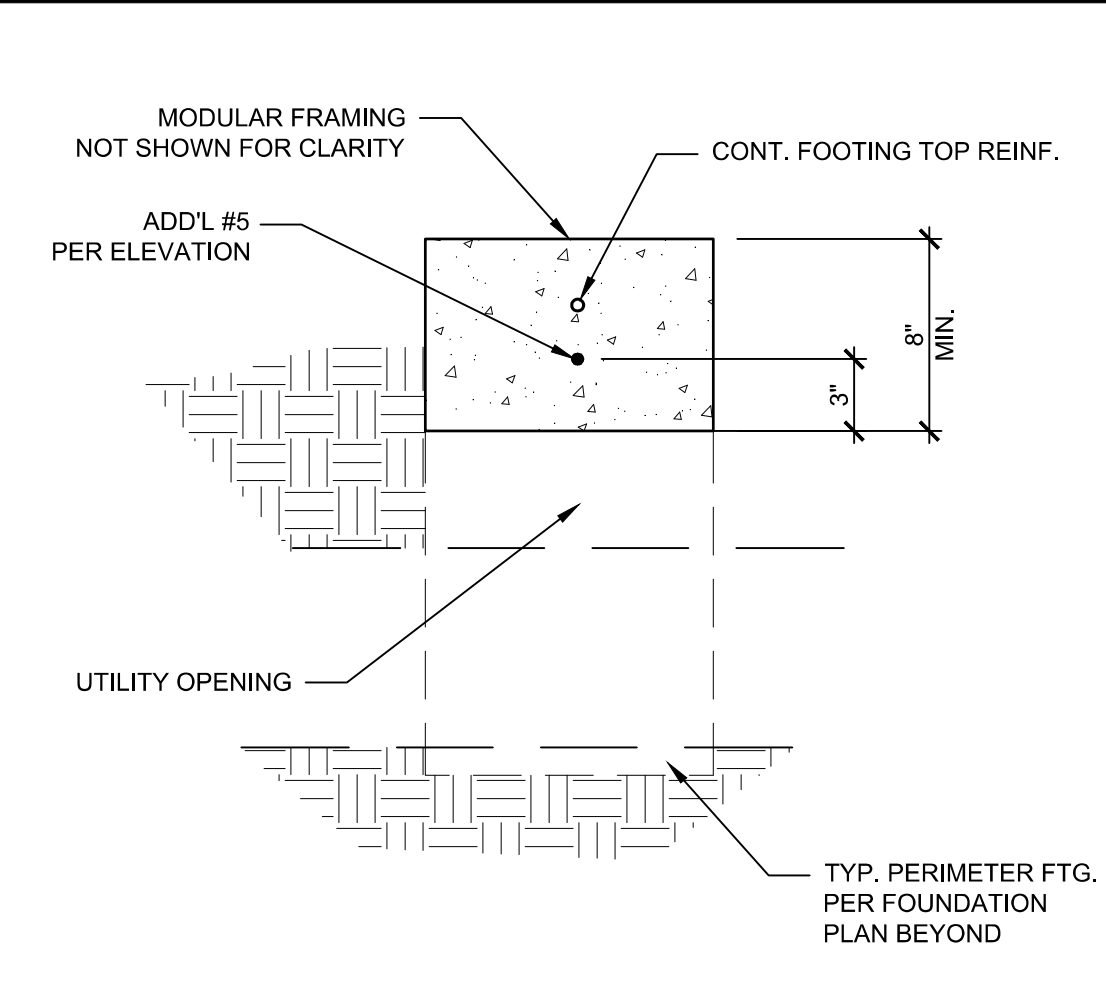
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SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:
DOUBLE PLATE ANCHORAGE FOUNDATION DETAILS
SHEET NUMBER:

S1.6C

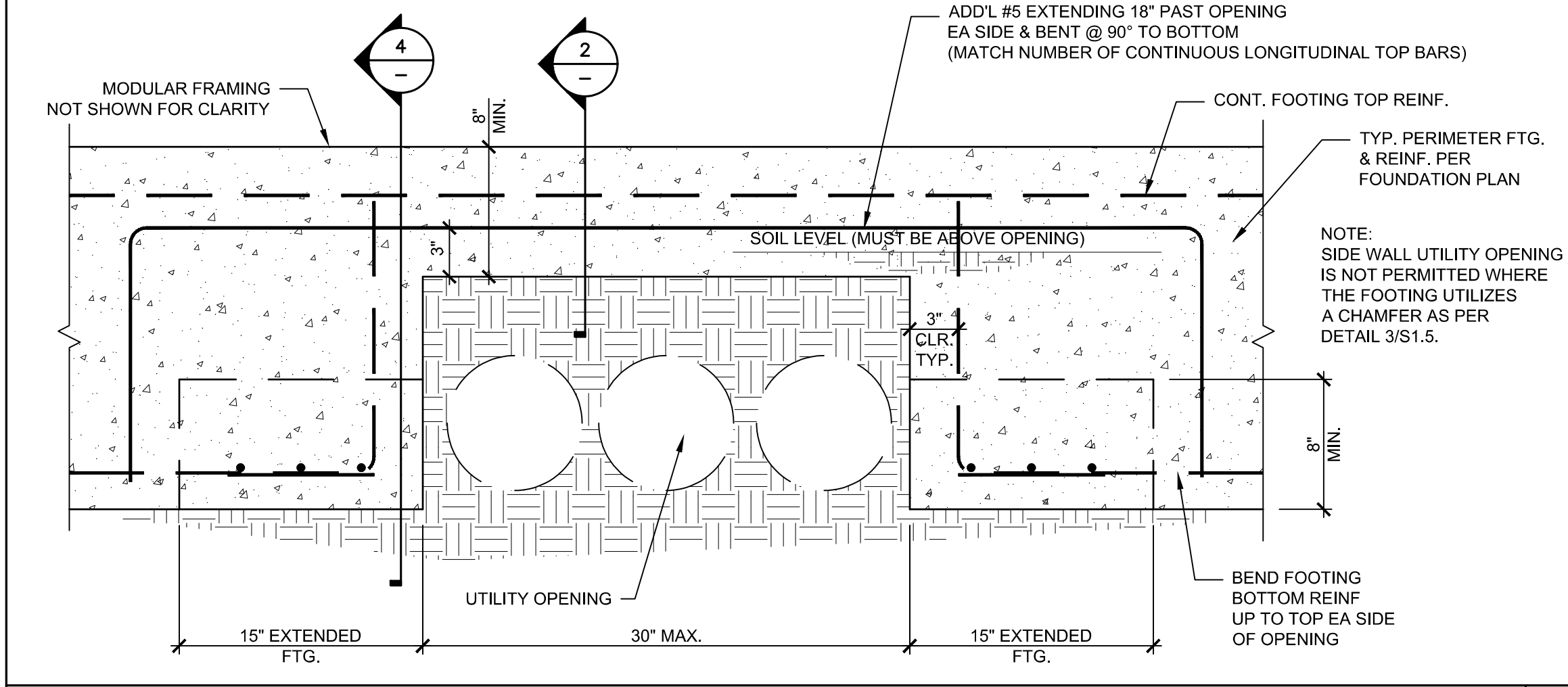
GENERAL NOTES



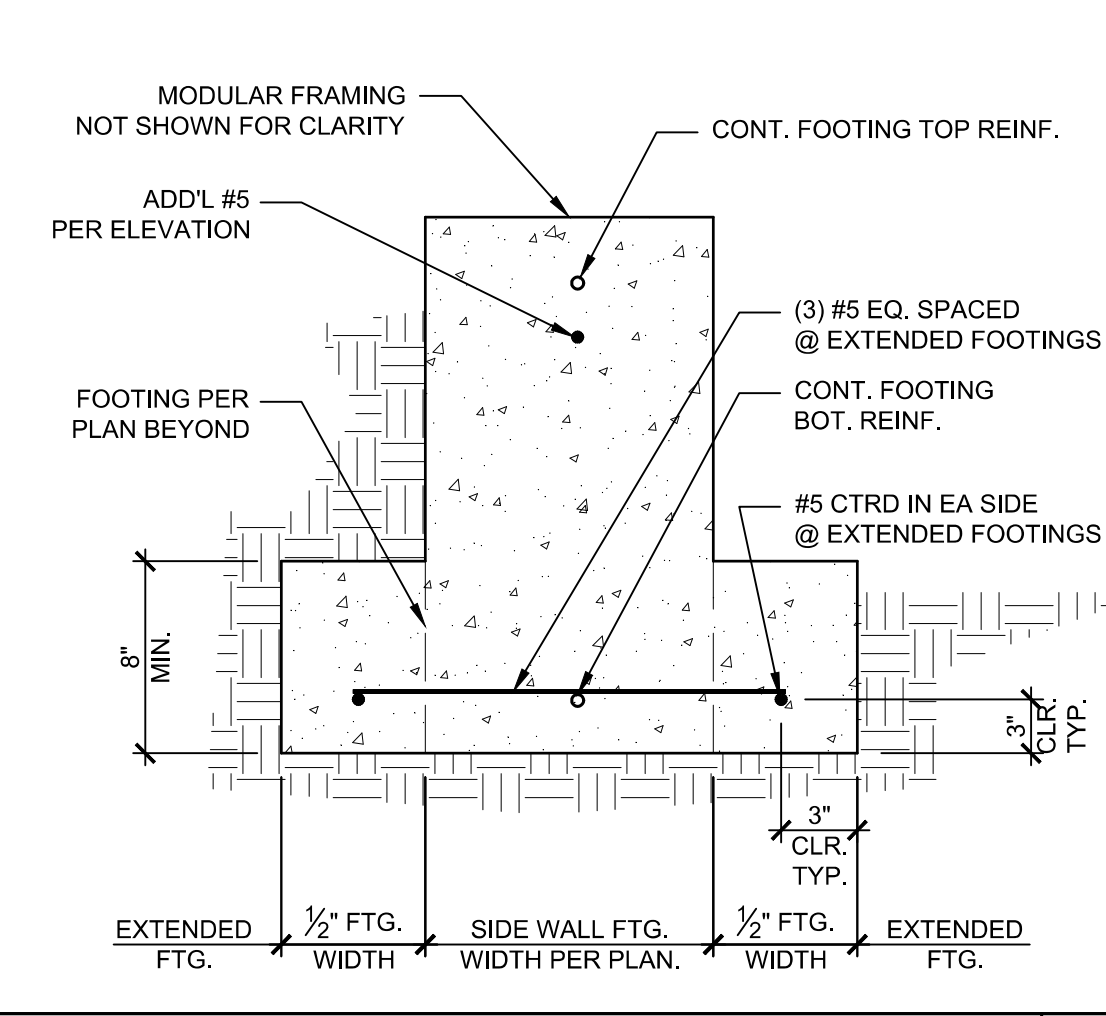
OPTIONAL UTILITY OPENINGS IN END WALL FOOTINGS SCALE: 1 1/2"=1'-0" 1



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



OPTIONAL UTILITY OPENINGS IN SIDE WALL FOOTINGS SCALE: 1 1/2"=1'-0" 3



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

OPTIONAL UTILITY OPENINGS PLAN SCALE: 1/4"=1'-0" A

NOT USED 5

NOT USED 6

NOT USED 7

NOT USED 8

NOT USED 9

NOT USED 10

NOT USED 11

NOT USED 12

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AMS
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PRE-CHECKED SET NAME
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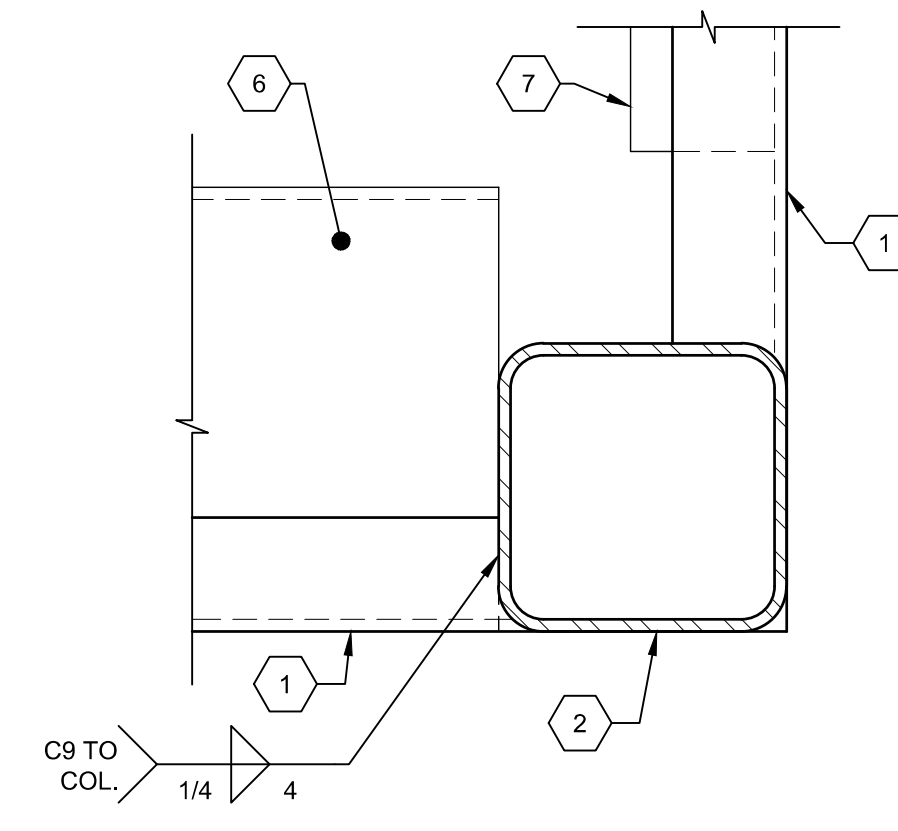
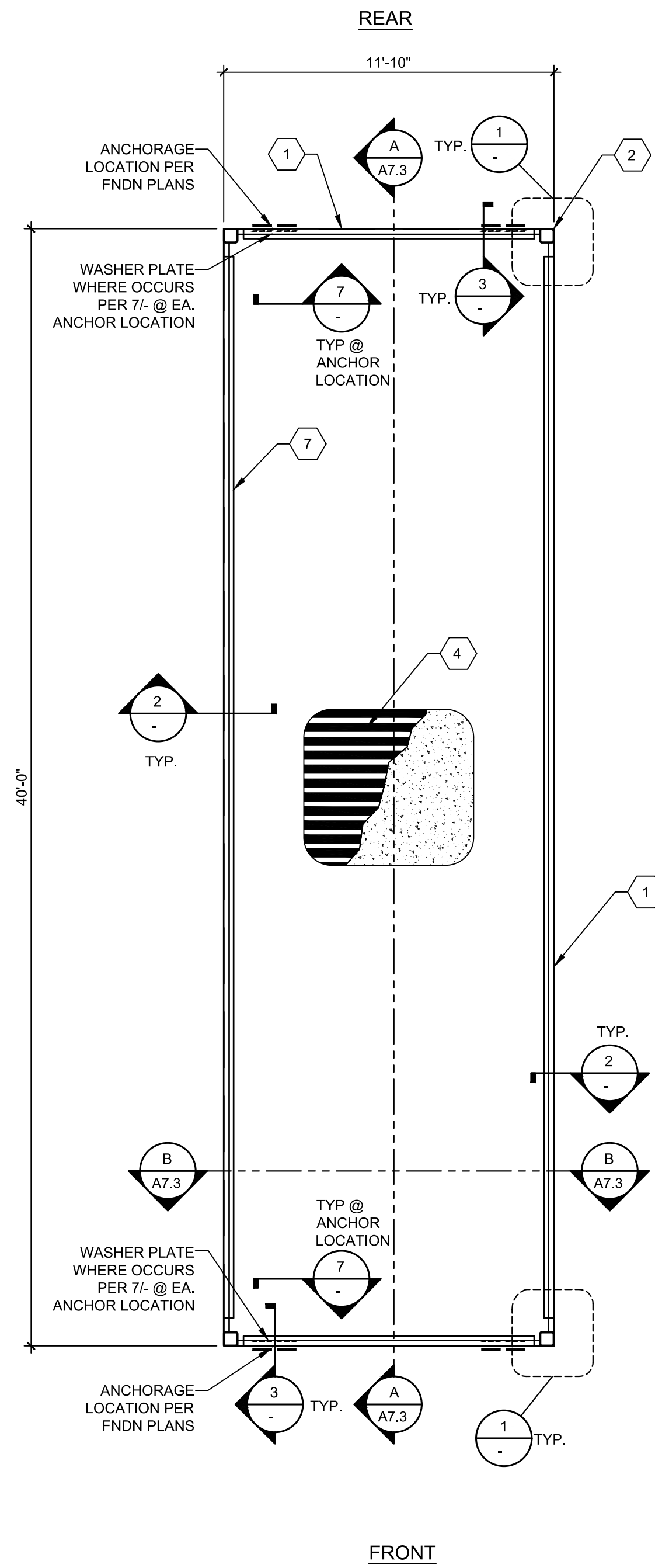
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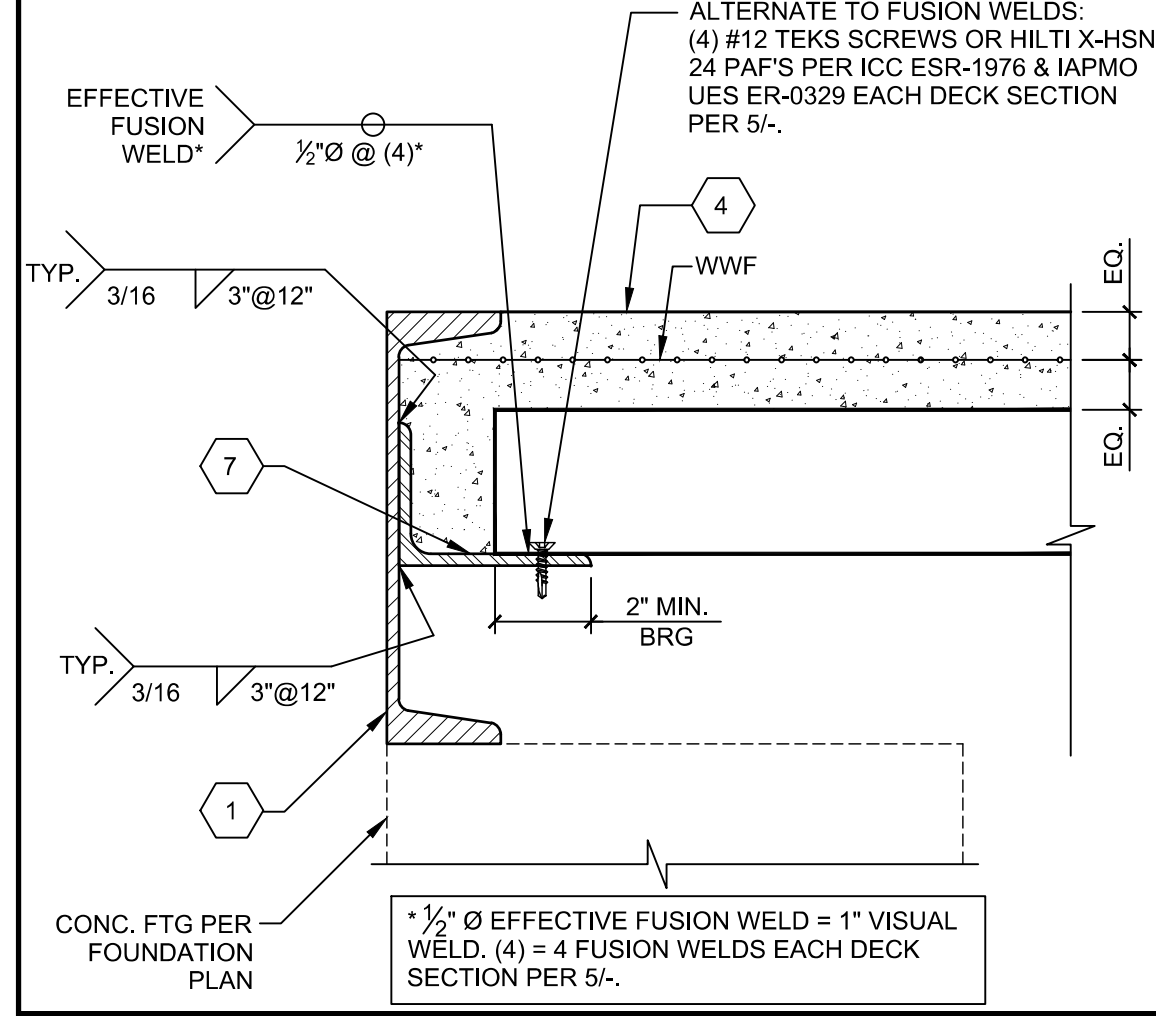
REVISIONS

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:
**CONCRETE FOUNDATION
OPTIONAL UTILITY
OPENINGS IN FOOTINGS**

SHEET NUMBER:
S1.7



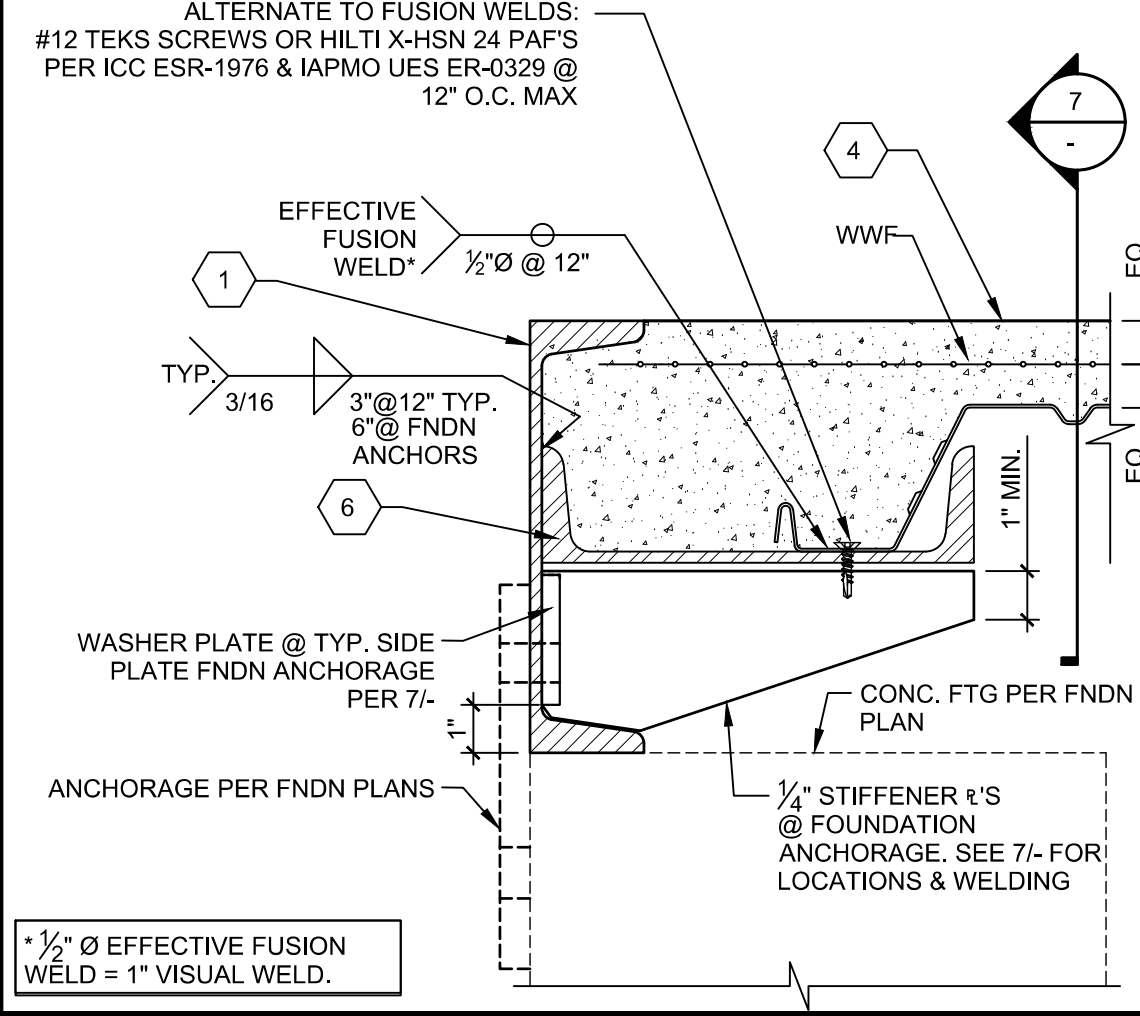
TYP. FLOOR BEAMS CONNECTION SCALE: 3" = 1'-0" 1



TYP. PERIMETER CONNECTION SCALE: 3" = 1'-0" 2

- 1 FLOOR BEAM PER SHEET S5.0. USE SINGLE SIZE CHANNEL THROUGHOUT FLOOR SYSTEM.
- 2 HSS COLUMN PER SHEET S5.0.
- 3 NOT USED
- 4 2" MIN. LIGHTWEIGHT CONC. FILL w/ 6x6/W1.4xW1.4 WWF w/ 1'-0" LAP OVER ASC 18 GA. 3WH OR 3WXH GALVANIZED DECK (5" MAX TOTAL THICKNESS) SEE 5/- FOR DECK PROPERTIES AND ATTACHMENT PATTERN.
- 5 NOT USED
- 6 C9x13.4" DECK SUPPORT CHANNEL PER DETAIL 3/- C9 MAY HAVE 3"Ø MAX HOLES THRU WEB WITHOUT WEB REINFORCEMENT PER THE FOLLOWING:
- HOLES MUST BE CENTERED ON WEB.
 - MULTIPLE HOLES MUST BE SPACED A MIN. OF 24" APART.
 - HOLES MUST BE 24" MIN. FROM INSIDE FACE OF COLUMNS.
- 7 L4x3x1/2" LLH (MIN.) DECK SUPPORT ANGLE PER DETAIL 2 & 4/-

KEY NOTES



TYP. PERIMETER CONNECTION SCALE: 3" = 1'-0" 3

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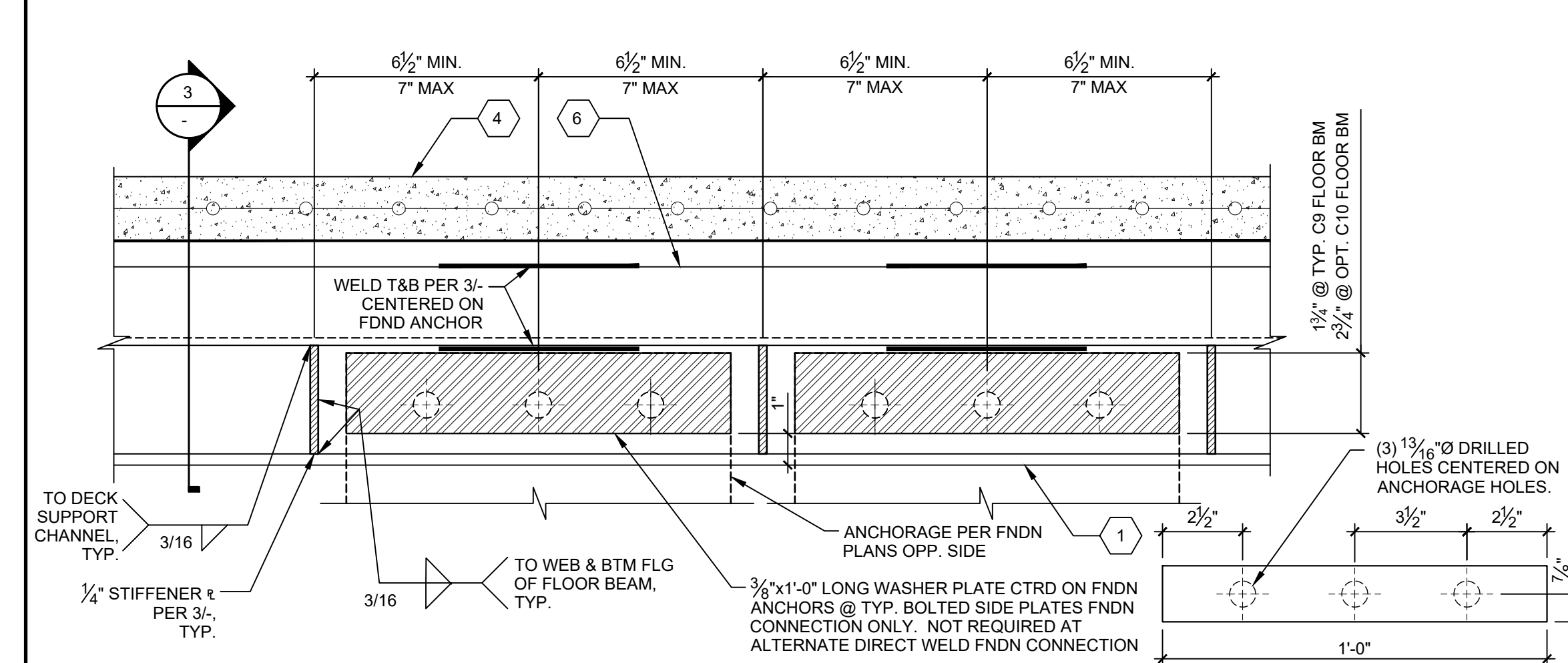
FLOOR FRAMING PLAN (CONCRETE FLOOR w/ 3WH-DECK OR 3WXH DECK OPTION) 150 PSF MAX FLOOR LIVE LOAD SCALE: 1/4"=1'-0" A

NOT USED 4

MINIMUM PROPERTIES				
PLAN DESIGNATION	DECK TYPE	S _{shot} IN ³ /FT	I _g IN ⁴ /FT	AVAILABLE DIAPHRAGM SHEAR (LRFD)
	3"-18 GA ASC 3WHxH GALV DECK (36" WIDE)	0.789	1.233	1565 PLF (LRFD) w/ 2" LWC TOPPING (5" TOTAL SLAB THICKNESS)
DECK PROFILE				
(N.T.S.)				
○ = (4) 1/2"Ø EFFECTIVE FUSION WELDS* ALTERNATE (4) #12 TEKS SCREWS OR HILTI X-HSN 24 PAF'S. (SEE 3/- FOR ATTACHMENT AT PARALLEL SUPPORTS) * 1/2"Ø EFFECTIVE FUSION WELD = 1"Ø VISUAL FUSION WELD SIDE LAP ATTACHMENT TO BE BOTTOM PUNCHED @ 36" O.C. NOTE: ASC STEEL DECKING: IAPMO UES ER #0329				

3WXH MTL DECK PROPERTIES & PROFILE N.T.S. 5

NOT USED 6



TYP. REINFORCED FRAMING @ FOUNDATION ANCHORAGE SCALE: 3" = 1'-0" 7

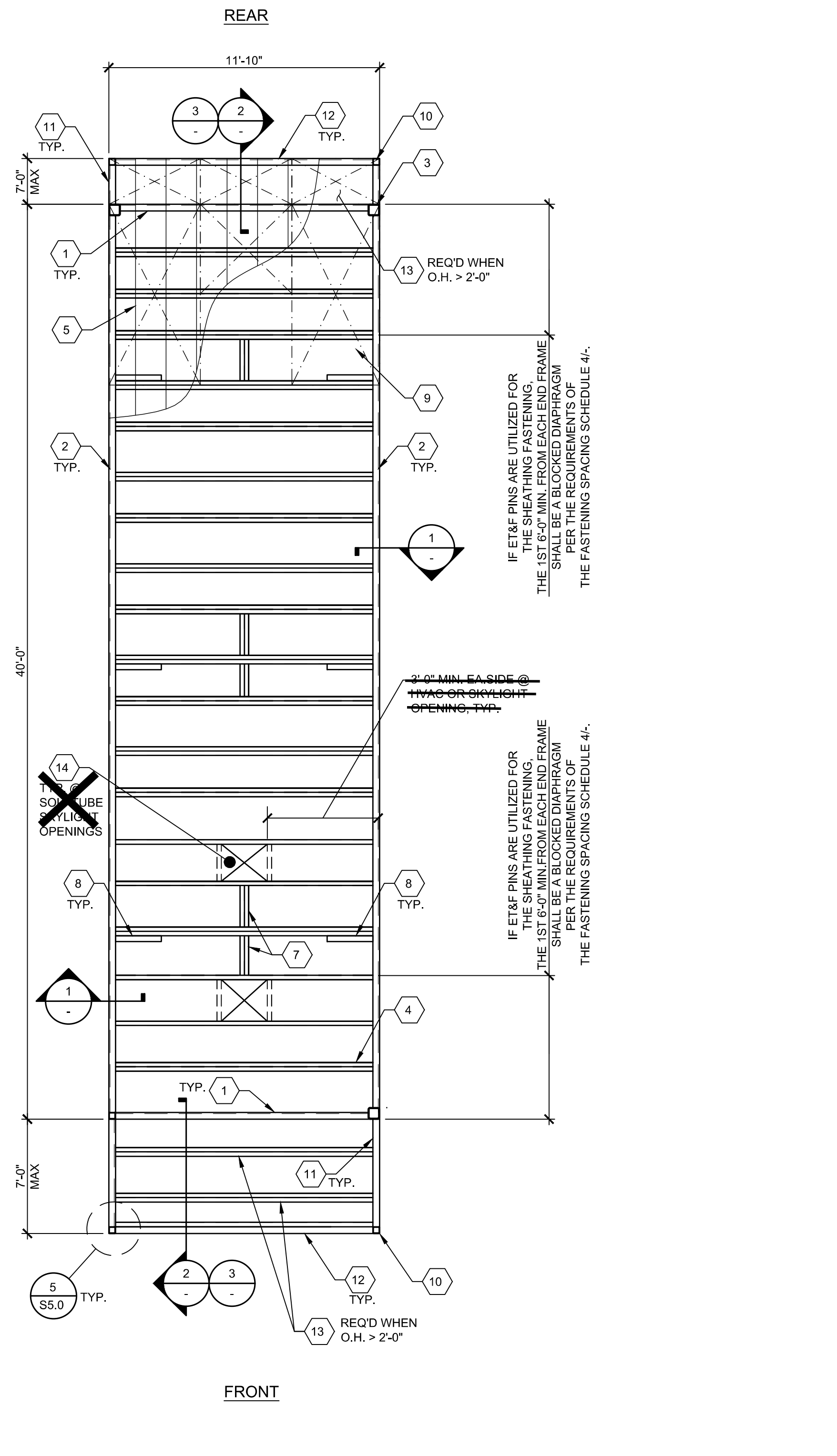
REVISIONS

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:
FLOOR FRAMING PLAN & DETAILS FOR CONCRETE FLOOR 3WHxH DECK OPTION (100 PSF MAX FLOOR L.L.)
SHEET NUMBER:
S3.3

REVISIONS

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YYYY
PROJECT NO: XXXX-20
SHEET TITLE:
ROOF FRAMING PLAN & DETAILS
ROOF SHEATHING OPTION
SHEET NUMBER:

S4.1



TYPICAL ROOF FRAMING LAYOUT

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

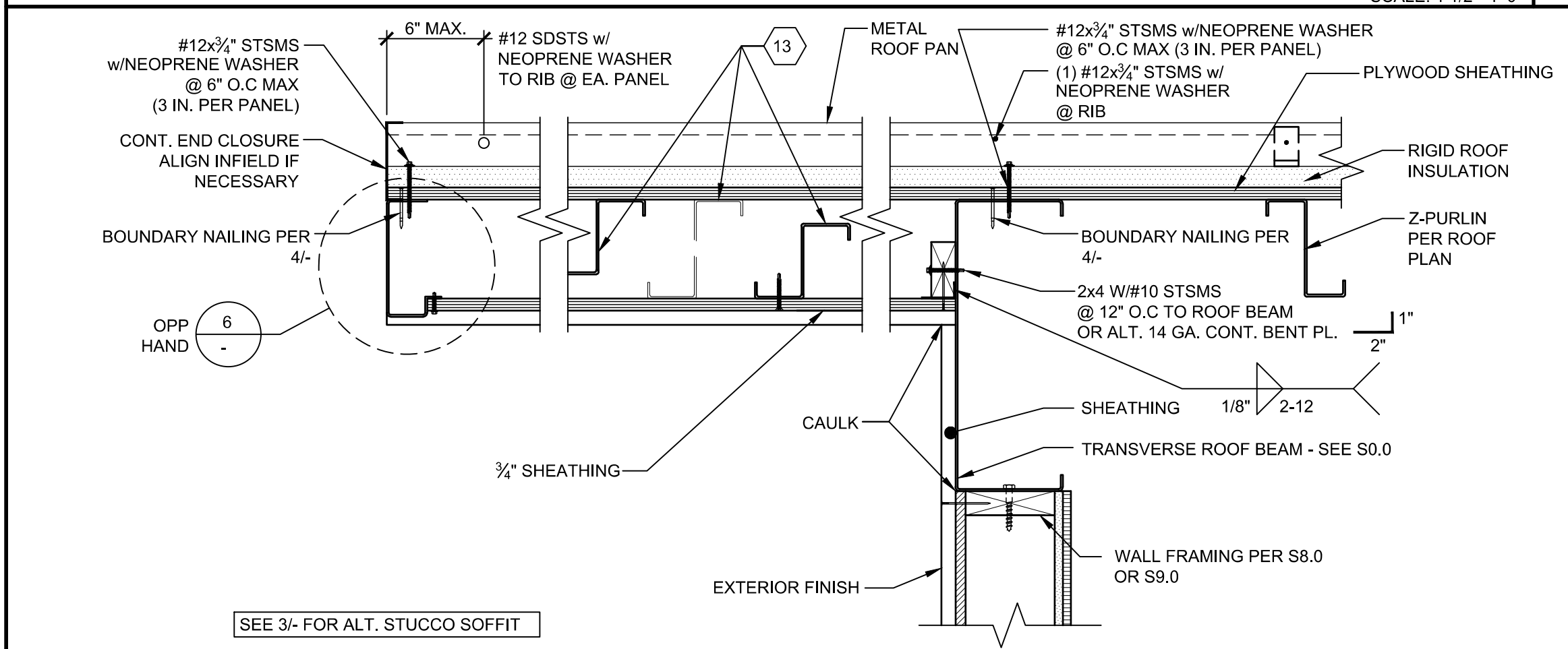
SHEATHING FASTENING SCHEDULE

	FASTENING	0.144" Ø ET&F PINS SPACING	#10 OR #12 SDSTS SPACING
STANDARD UN-BLOCKED DIAPHRAGM	BOUNDARY	6" O.C.	6" O.C.
	EDGE	6" O.C.	6" O.C.
	FIELD	12" O.C.	12" O.C.
STANDARD BLOCKED DIAPHRAGM	BOUNDARY	4" O.C.	
	EDGE	4" O.C.	
	FIELD	6" O.C.	

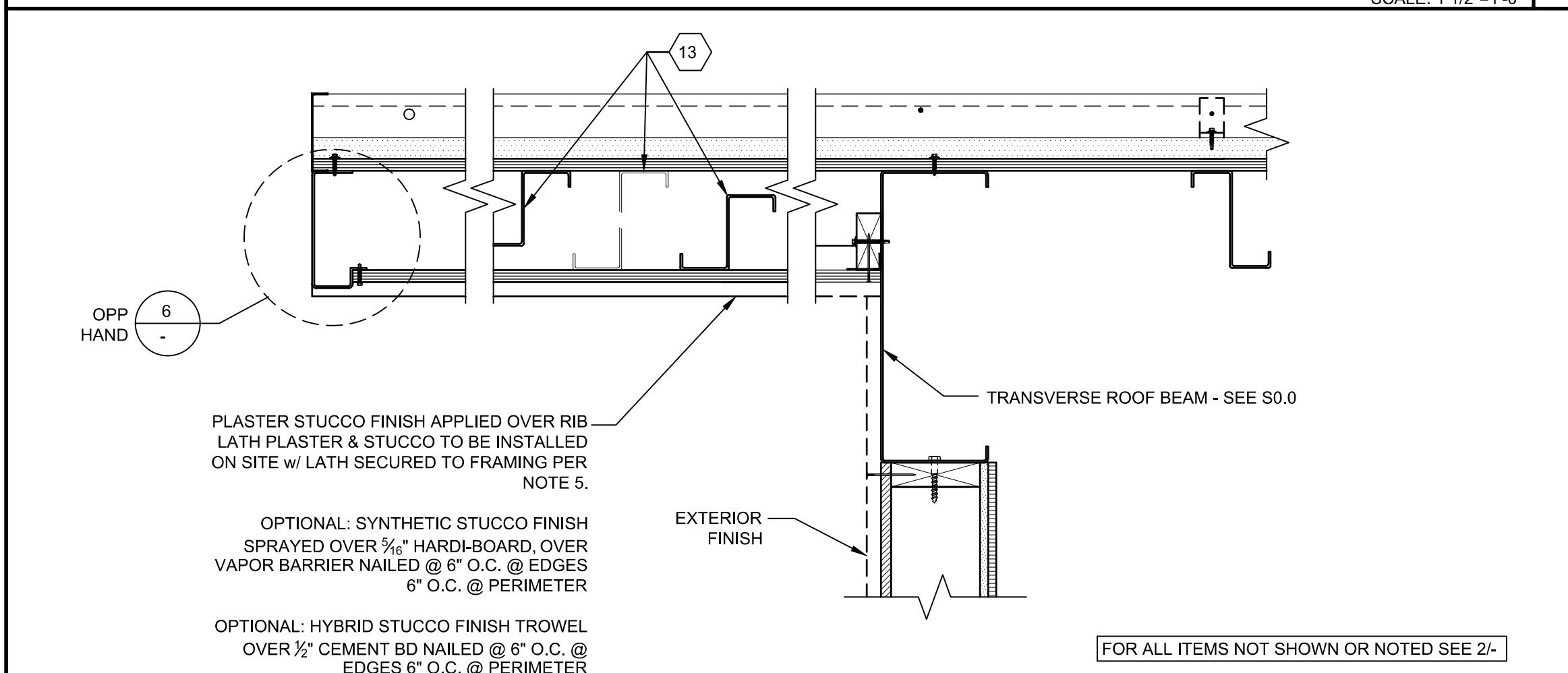
NOTES:
1. ET&F PINS PER IAPMO REPORT UES ER-0335. SDSTS PER ASTM C1513.
2. USE STANDARD UN-BLOCKED DIAPHRAGM UNLESS WHERE BLOCKED DIAPHRAGMS ARE SPECIFIED ON PLAN.
3. IN AREAS WHERE BLOCKED DIAPHRAGMS ARE SPECIFIED, PROVIDED BLOCKING PER 3/S4.3.

FASTENING SPACING SCHEDULE

SIDE WALL TO ROOM BEAM DETAIL



OVERHANG DETAIL



ALTERNATE OVERHANG DETAIL w/ STUCCO SOFFIT

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

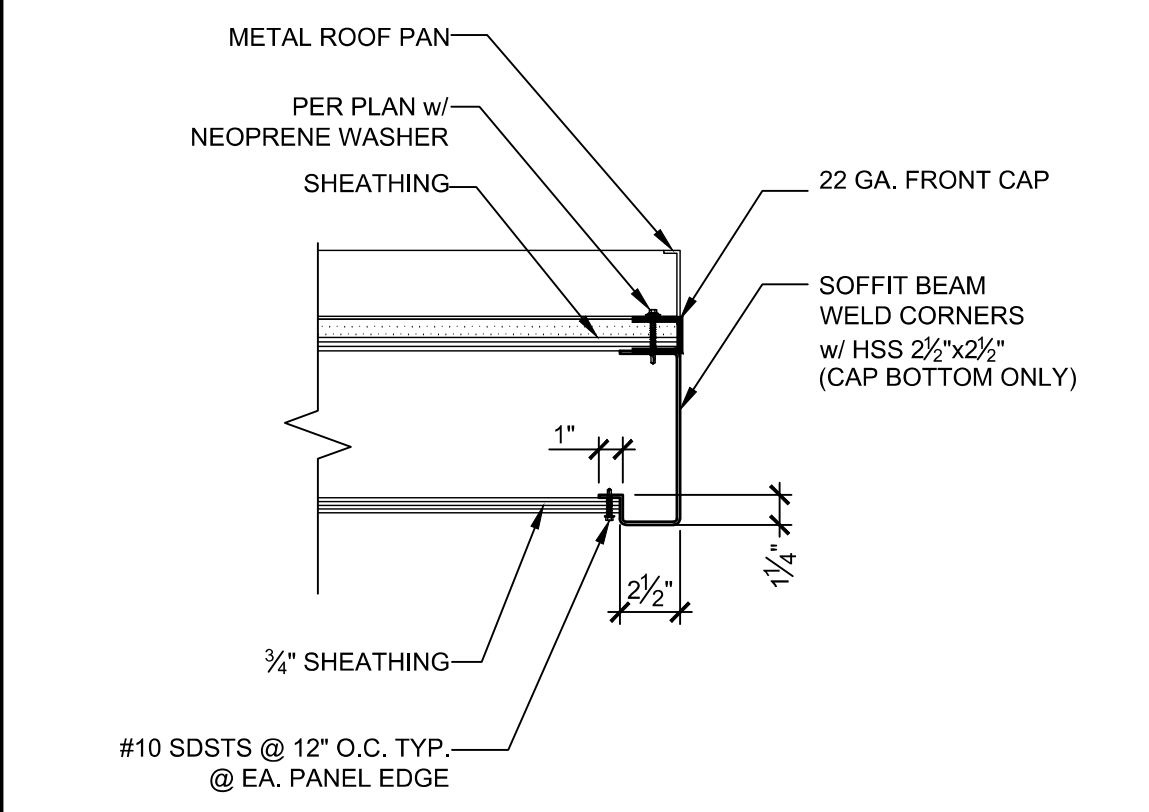
NOT USED

1. TRANSVERSE ROOF BEAM PER SHEET S5.0.
2. LONGITUDINAL ROOF BEAM PER SHEET S5.0.
3. HSS COLUMN PER SHEET S5.0.
4. ROOF PURLINS @ 24" O.C. MAX. -SEE SHEET S0.0 (USE 'C' PURLINS @ OPT. SOLUTUBE SKYLIGHT OPENINGS PER 14 BELOW)
5. 20 GA. OR 22 GA. METAL ROOF PAN - SEE SHEET S0.0.
6. NOT USED
7. MID-SPAN PURLIN BLOCKING WELD TO ROOF PURLINS PER DETAIL 3/S4.3 BLOCKING IS REQUIRED AT PURLINS WITH DIAGONAL BEAM BRACING AT EXTERIOR SIDE WALLS PER 8 BELOW.
8. 3x1x12 GA. BENT PLATE DIAGONAL BRACE TO ROOF BEAM PER DETAIL 1/- @ 8'-0" FROM HSS COLUMNS & @ MIDSPAN IF SINGLE PITCH. PROVIDE BRACES @ 8'-0" FROM HSS COLUMNS & (2) BRACES @ RIDGE IF DUAL PITCH. PROVIDE PURLIN BLOCKING @ EACH BRACE PER 7 ABOVE.
9. 15/32" APA RATED PLYWOOD OR OSB ROOF SHEATHING, C-D EXPOSURE 1, 32/16 SPAN RATING. PLYWOOD SHALL BE 5 PLY CONFORMING TO PS 1-09 OR PS 2-10. OSB SHEATHING SHALL CONFORM TO PRP-108 OR PS 2-10. ALL PLYWOOD OR OSB SHALL BE EITHER T&G OR EDGE CLIPPED AT UNSUPPORTED EDGES. STAGGER SHEETS 48" O.C. AS SHOWN W/ FACE GRAIN PERPENDICULAR TO ROOF PURLINS. 2 SPANS MIN, 24" MIN. WIDTH. ALL BOUNDARY, EDGE & FIELD ATTACHMENTS SHALL BE 3/8" MIN. FROM EDGE OF OSB OR PLYWOOD & EDGE OF STEEL SUPPORTING MEMBER. REFER TO FASTENING SCHEDULE 4/- FOR FASTENING.
10. 2 1/2" SQ. HSS SOFFIT COLUMN - SEE S5/S5.0.
11. SOFFIT OUTRIGGER BEAM - SEE S0.0
12. SOFFIT BEAM - SEE S0.0
13. ROOF PURLINS @ 24" O.C. MAX IN OVERHANGS - SEE S0.0. MAY BE ACHIEVED WITH FULL DEPTH PURLINS SUPPORTING ROOF SHEATHING & SOFFIT SHEATHING OR BY SEPARATE SMALLER JOISTS @ EACH LEVEL MAINTAINING MAX SPACING AT EACH LEVEL.
14. PROVIDE SINGLE 'C' ROOF PURLINS AND 16ga ANGLE BLOCKING PER 12/S4.3 @ OPTIONAL 22" SQ. SOLUTUBE SKYLIGHT OPENINGS. (4) SKYLIGHT OPENINGS PER MODULE MAX. LOCATE OPENINGS PER 15/S4.3.

KEY NOTES

1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0. THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
2. SEE SHEET S8.0 & S9.0 FOR TYP. SIDE WALL FRAMING.
3. SEE SHEET S8.0 & S9.0 FOR TYP. END WALL FRAMING.
4. ALL FASTENERS THRU METAL ROOF PANEL SHALL BE INSTALLED w/ NEOPRENE WASHERS.
5. FOR PLASTER STUCCO FINISH @ SOFFIT, LATH SHALL BE SECURED PER THE FOLLOWING (CBC 2507.3): A SECURE LATH TO ALTERNATE SUPPORTS WITH TIES CONSISTING OF A DOUBLE STRAND OF NO. 18 W & M GAGE GALVANIZED ANNEALED WIRE AT ONE EDGE OF EACH SHEET OF LATH. WIRE TIES SHALL BE INSTALLED NOT LESS THAN 3 INCHES (76MM) BACK FROM THE EDGE OF EACH SHEET AND SHALL BE LOOPED AROUND STRIPPING, OR ATTACHED TO A #8 SMS SCREW INTO EACH SIDE OF THE PURLIN - 2 INCHES (51MM) ABOVE THE BOTTOM OF THE PURLIN OR TO EACH END OF A #12 SMS DRIVEN HORIZONTALLY THROUGH THE PURLIN - 2 INCHES (51MM) ABOVE THE BOTTOM OF THE PURLIN AND THE ENDS OF THE WIRE SECURED TOGETHER WITH THREE TWISTS OF WIRE.

GENERAL NOTES

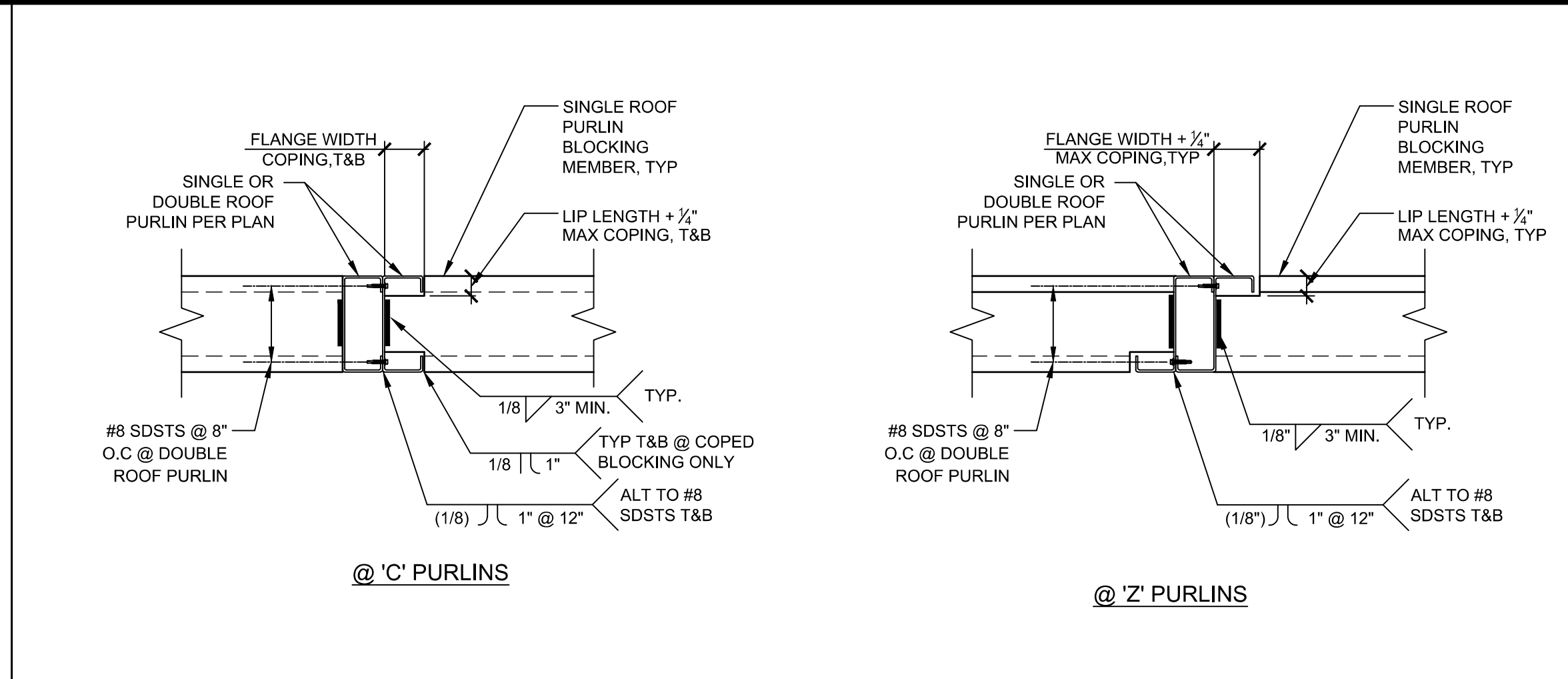


ENCLOSED SOFFIT DETAIL

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

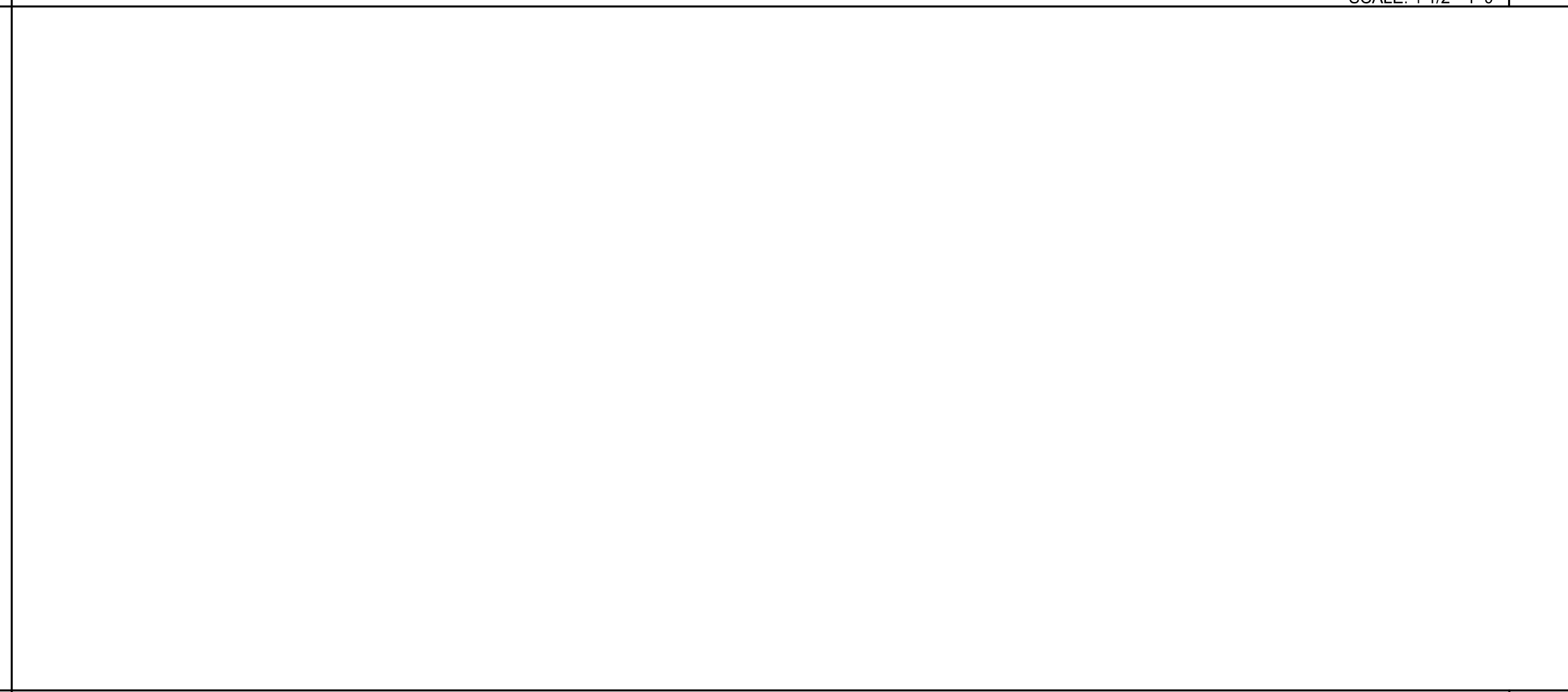
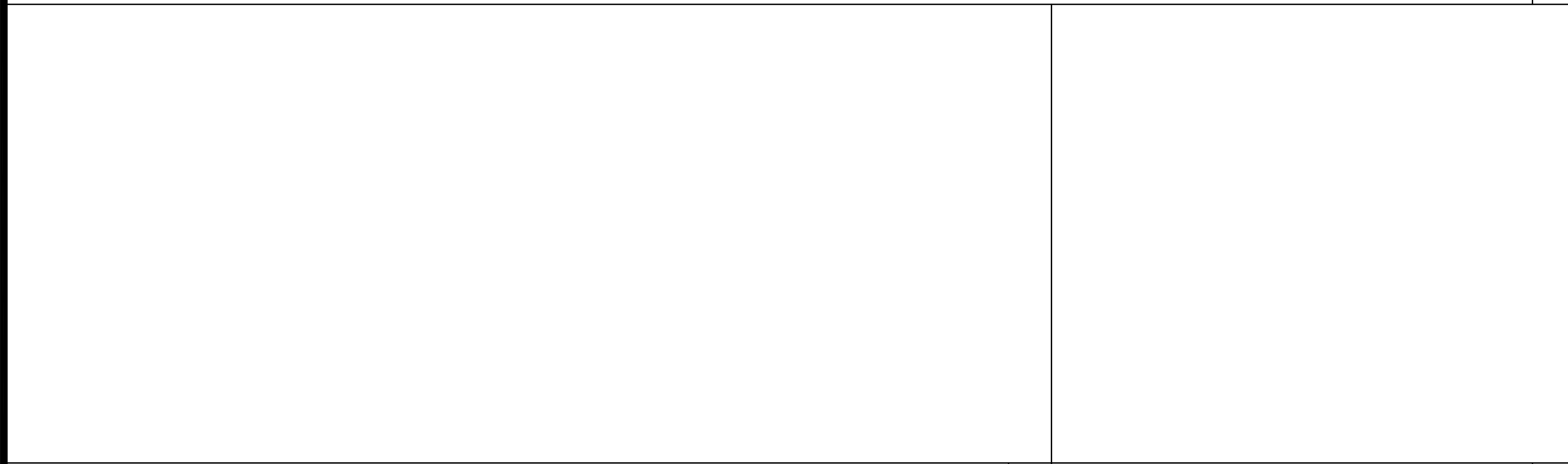
ENCLOSED SOFFIT DETAIL

NOT USED

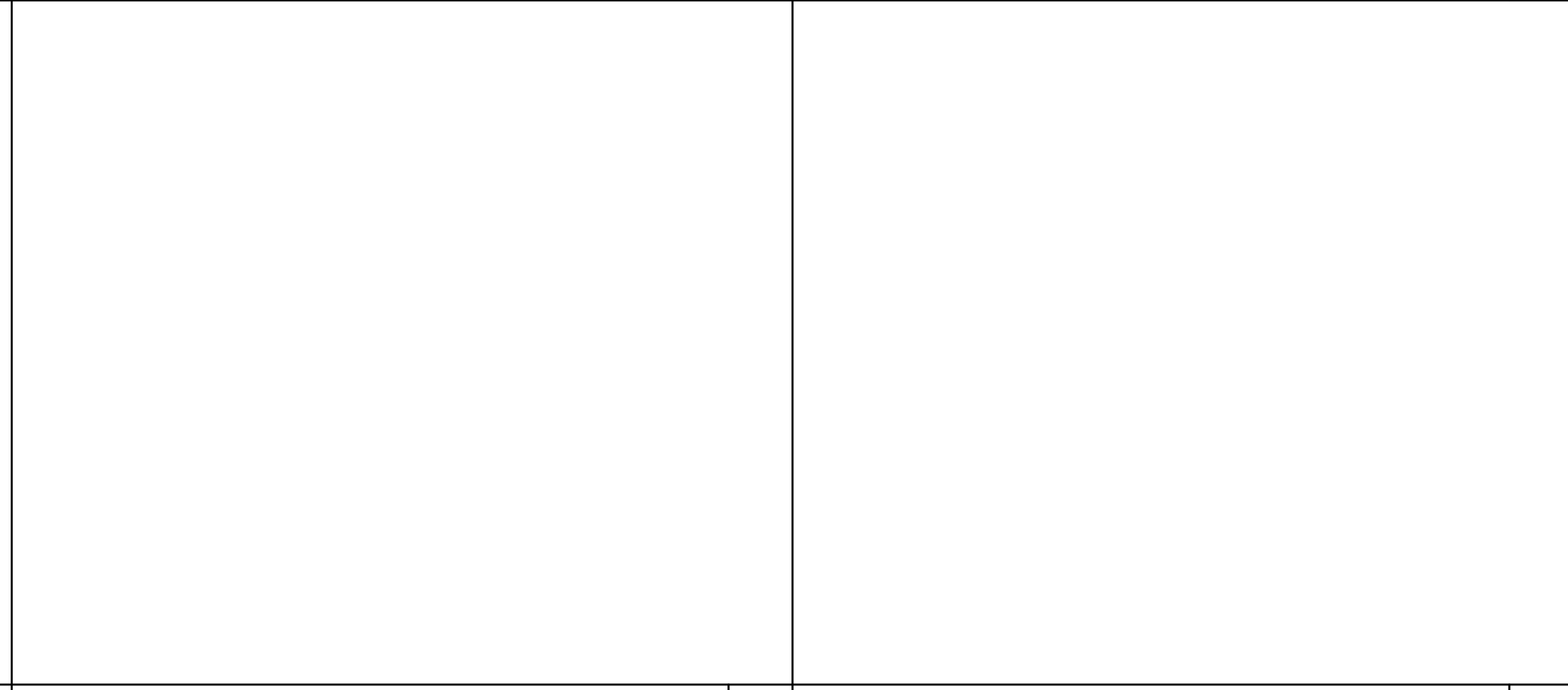
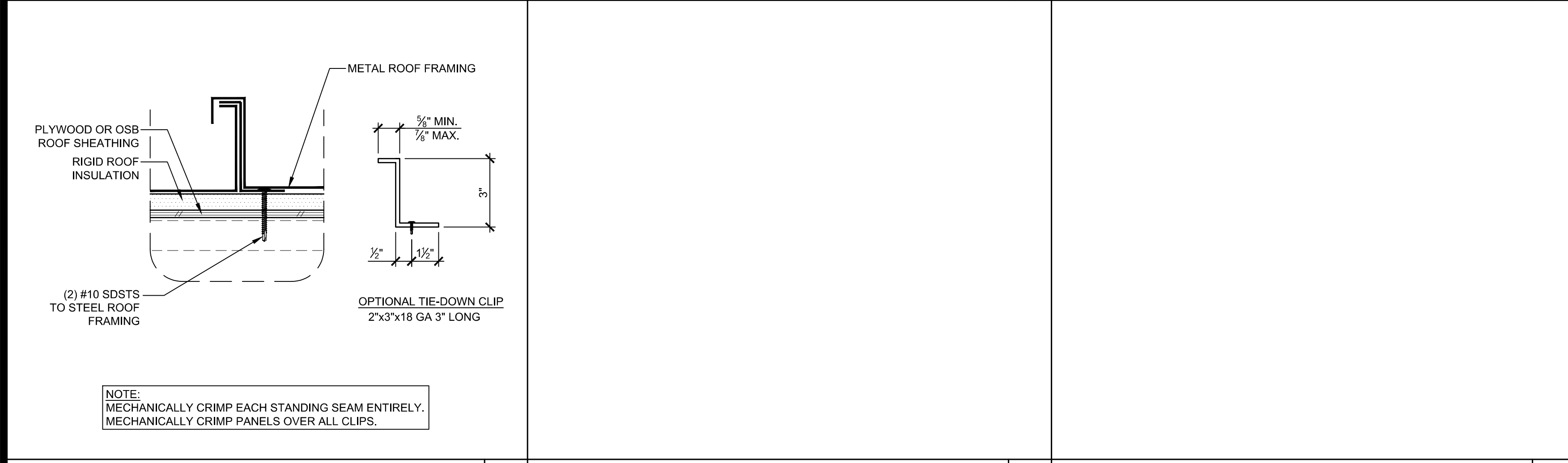


NOT USED 2 BLOCKING & DBL PURLIN CONNECTION DETAIL 3

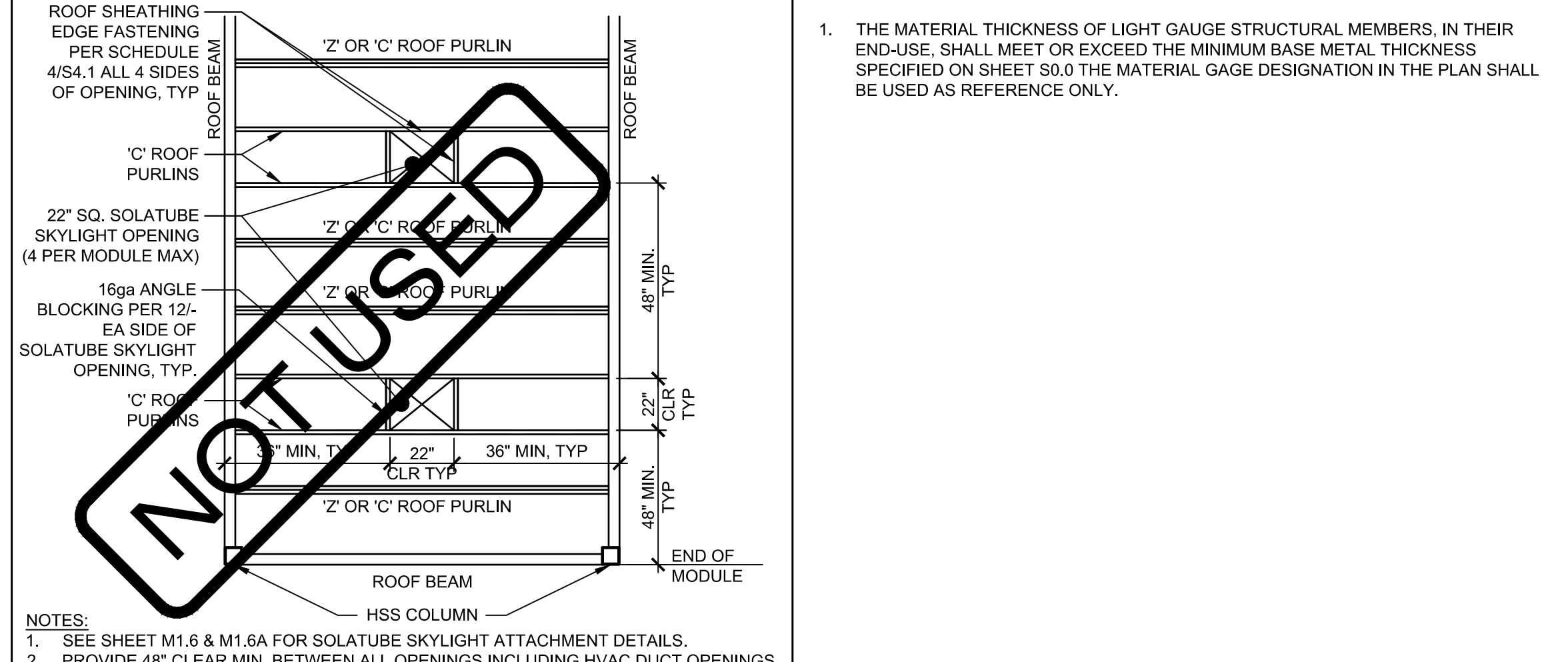
SCALE: 1 1/2"=1'-0"



NOT USED 4 NOT USED 5 NOT USED 6



ROOF DETAIL (OPTIONAL ROOF PAN CLIP) SCALE: 1 1/2"=1'-0" 7 NOT USED 8 NOT USED 9 NOT USED 10 NOT USED 11



TYP. ANGLE TO Z-PURLIN ATTACHMENT SCALE: 1 1/2"=1'-0" 12 NOT USED 13 NOT USED 14 ROOF FRAMING AT SOLATUBE SKYLIGHT OPENINGS SCALE: 1 1/2"=1'-0" 15

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APP: 02-120247 INC:
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AMS
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

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APP: 02-119274 PC
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2019 CBC PRE-CHECK (PC) DOCUMENT
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MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK CANNON
No. C12631
Ren. 2-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRAZEE
No. 4180
Exp. 10/31/22
21081
STATE OF CALIFORNIA

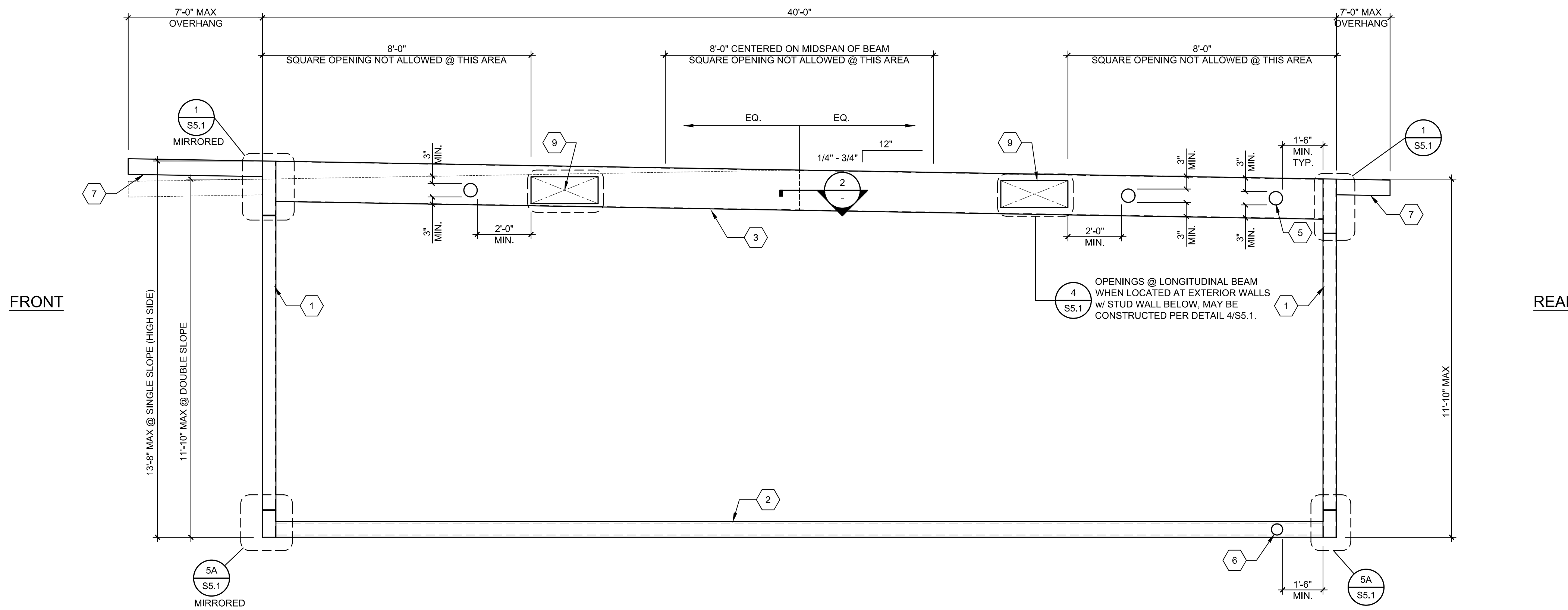
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SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:
**ROOF FRAMING DETAILS
ROOF SHEATHING OPTION**
SHEET NUMBER:

S4.3

GENERAL NOTES



TYPICAL LONGITUDINAL FRAME ELEVATION

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

1

KEY NOTES

- 1 HSS COLUMN - SEE SCHEDULE 3 & BELOW
- 2 FLOOR BEAM - SEE SCHEDULE 3 & BELOW
- 3 LONGITUDINAL ROOF BEAM PER 18/S0.0.
- 4 TRANSVERSE ROOF BEAM PER 18/S0.0.
- 5 6"Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C., HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION. - SEE 6/S5.1
NOTE: IF HOLE IS 3" OR LESS, THEY MAY BE SPACED @ 24" O.C. MINIMUM
- 6 4"Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C., HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF FLOOR BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION. - SEE 6/S5.1.
NOTE: IF HOLE IS 2" OR LESS, THEY MAY BE SPACED @ 24" O.C. MINIMUM.
- 7 SOFFIT OUTRIGGER BEAM AT ENCLOSED OVERHANG - REFER TO DETAIL 1/S5.1 & S0.0 FOR PROPERTIES.
- 8 SOFFIT BEAM AT ENCLOSED OVERHANG - REFER TO DETAIL 1/S5.1 & S0.0 FOR PROPERTIES
- 9 LONGITUDINAL BEAM OPENING:
REFER TO DETAIL 4/S5.1 FOR OPENING REINFORCEMENT (10"x30" MAX OPENING SIZE)
- 10 TRANSVERSE BEAM OPENING:
REFER TO DETAIL 4/S5.1 FOR OPENING REINFORCEMENT (10"x30" MAX OPENING SIZE)

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Patricia C. Anderson
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Manny D. Frantz
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No. 2180
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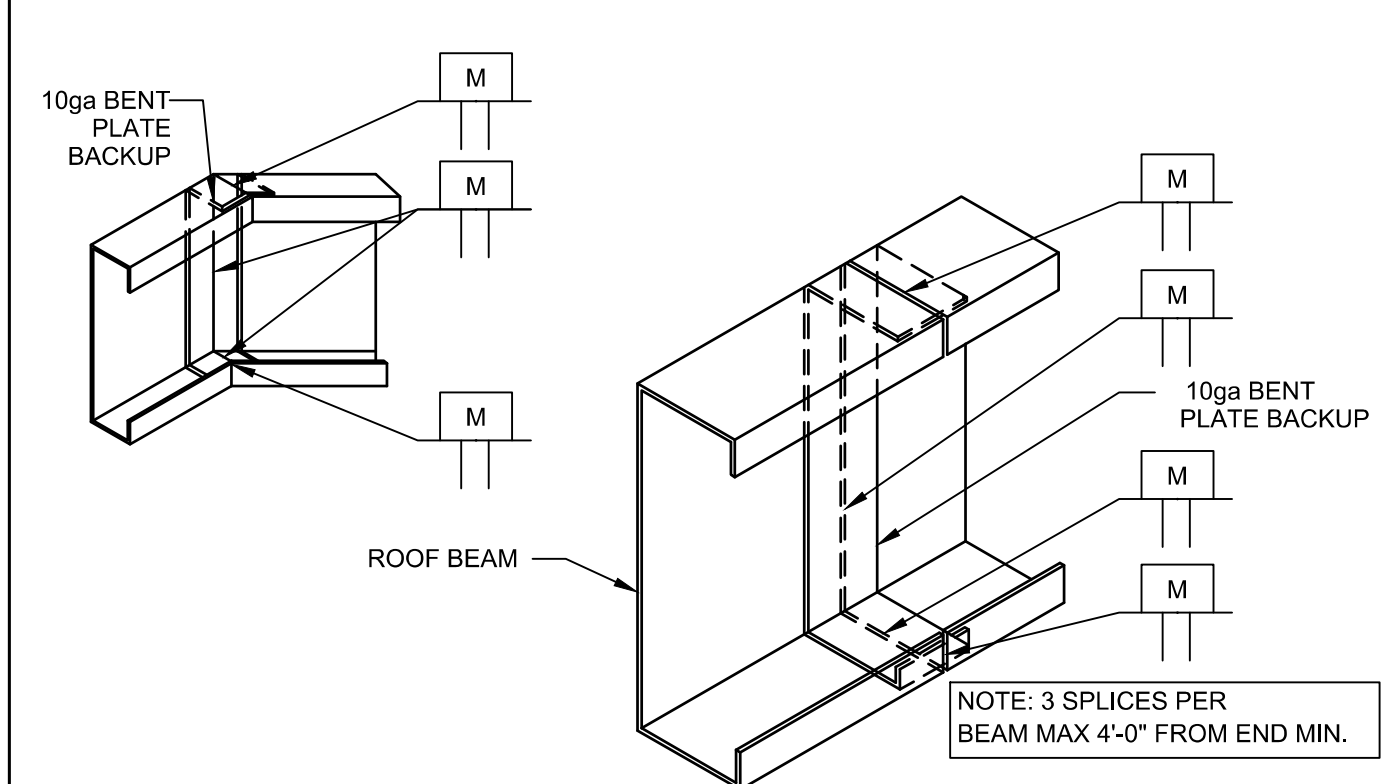
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DRAWN BY: AA
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DATE: MM/DD/YYYY
PROJECT NO: XXXX-20
SHEET TITLE:
MOMENT FRAME ELEVATIONS & DETAILS
SHEET NUMBER:

S5.0

THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PROCEDURE SPECIFICATION FOR THIS WELD SHALL BE PREPARED IN ACCORDANCE WITH AWS D1.1-15, D1.3-08 & D1.8-16 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO THE D.S.A. TYPICAL ALL DETAILS THIS SHEET. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT.-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION.



TYPICAL BEAM SLICE

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

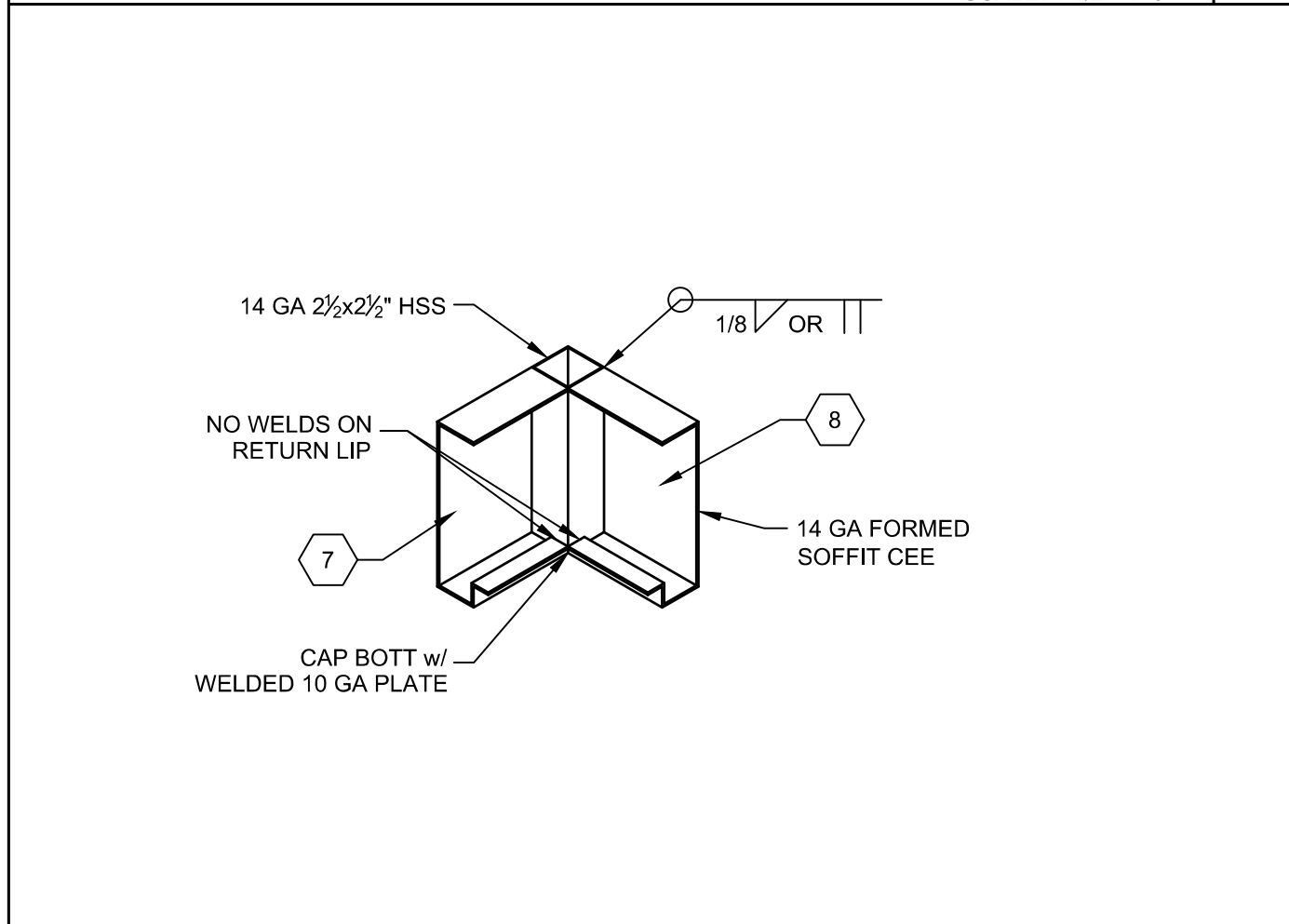
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FRAME MEMBER SCHEDULE

FLOOR BEAMS		ALT. FLOOR BEAMS		COLUMNS	LONGITUDINAL ROOF BEAMS	TRANSVERSE ROOF BEAMS
PLYWOOD FLOOR	CONCRETE FLOOR	PLYWOOD FLOOR	CONCRETE FLOOR			
C9x20 (50 KSI)	C9x20 (50 KSI)	C10x15.3	C10x15.3	HSS 6x6x3/4 (ASTM A1085)	10 GA.	10 GA.

NOTE: SEE ALL SECTION PROPERTIES ON SHEET S0.0

3

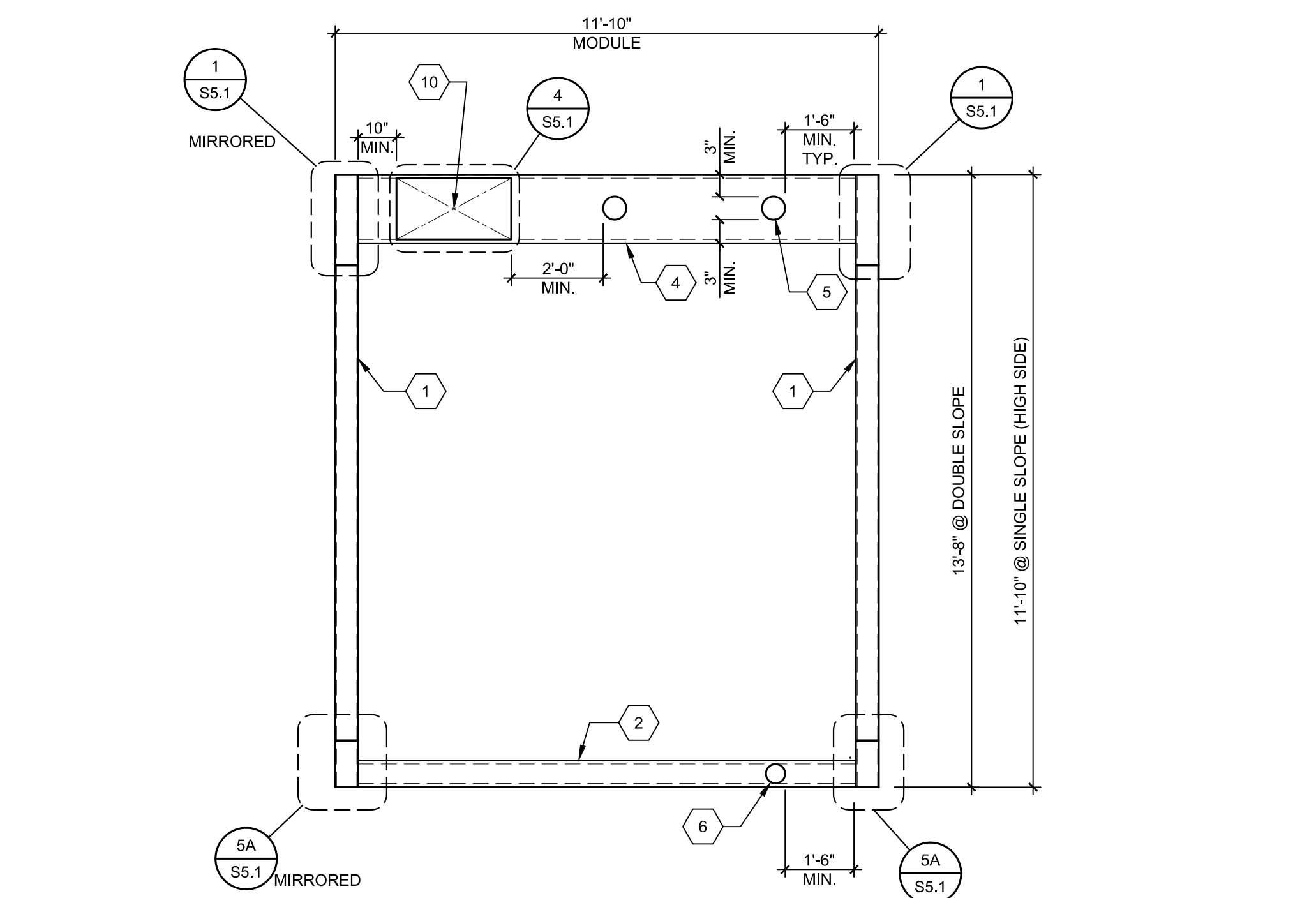


OVERHANG CORNER DETAIL

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

5

NOT USED



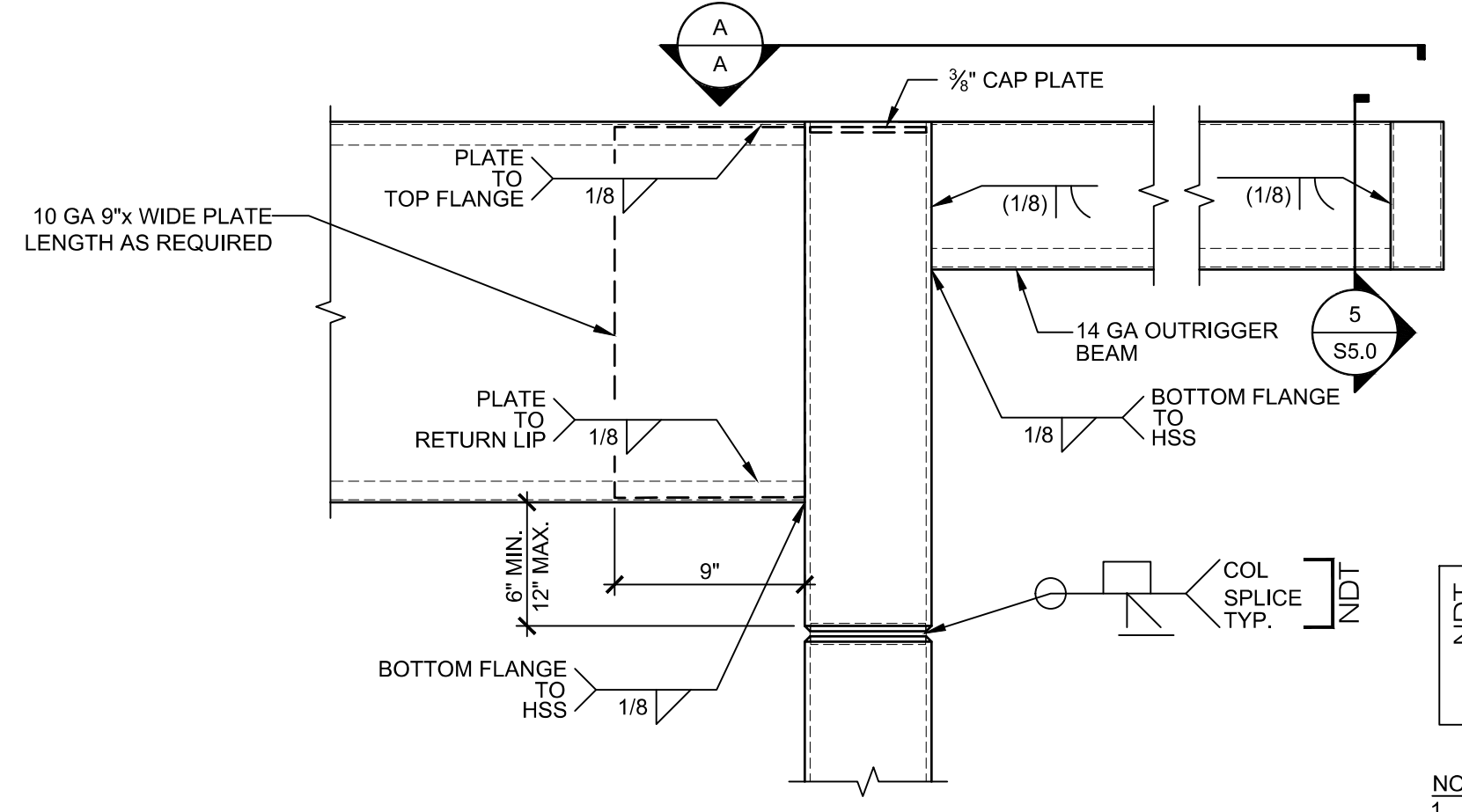
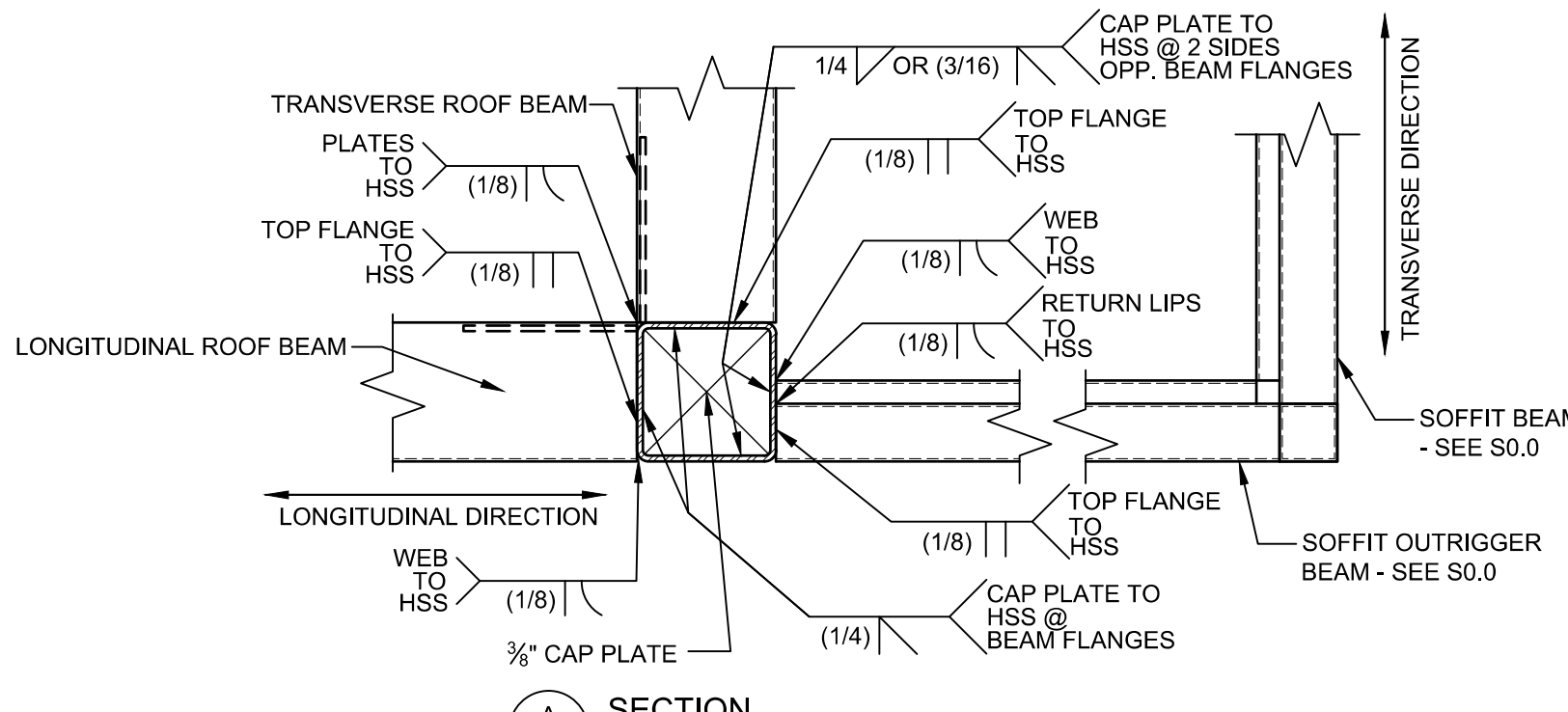
TYPICAL TRANSVERSE FRAME ELEVATION

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

4

NOT USED

6



NDT DENOTES NON-DESTRUCTIVE TESTING REQUIRED FOR THE DENOTED WELD IN ACCORDANCE WITH THE NON-DESTRUCTIVE TESTING NOTES ON THIS SHEET.

NOTE:
1. LONGITUDINAL ROOF BEAM SHOWN; TRANSVERSE ROOF BEAM SIMILAR

THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PROCEDURE SPECIFICATION FOR WELDS ON THIS SHEET SHALL BE PREPARED IN ACCORDANCE WITH AWS D1.1-15 (HOT-ROLLED), D1.3-08 (COLD-FORMED) & D1.8-16 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO D.S.A. UPON REQUEST. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CHARTY V-NOTCH TOUGHNESS OF 20 FT.-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION.

GENERAL NOTES

- NON-DESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION GROVE WELDS AT THE MOMENT-RESISTING BEAM-TO-COLUMN CONNECTIONS SHALL COMPLY WITH AISC 341-16 CHAPTER J PER CBC 1705A.2.1.
- WELDS SUBJECT TO THE REQUIREMENTS OF NON-DESTRUCTIVE TESTING ARE NOTED ON THESE DRAWINGS WITH THE SYMBOL:
 - ALL WELDS DESIGNATED FOR NON-DESTRUCTIVE TESTING REQUIRE MAGNETIC PARTICLE TESTING (MT) TO BE PERFORMED ON 25% OF THOSE WELDS.
 - ULTRASONIC TESTING (UT) IS TO BE PERFORMED ON 100% OF WELDS DENOTED WITH THE SYMBOL AND IS ONLY REQUIRED ON THOSE DESIGNATED WELDS.
 - ULTRASONIC TESTING (UT) IS ONLY REQUIRED WHERE THE THICKNESS OF THE COLUMN IS 5/16" OR GREATER. UT IS NOT REQUIRED WHERE THE COLUMN THICKNESS IS LESS THAN 5/16". MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.
 - ULTRASONIC TESTING (UT) IS NOT REQUIRED ON WELDS FROM STRUCTURAL STEEL CHANNEL BEAM FLANGES TO COLUMNS AS UT TESTING IS NOT APPROPRIATE FOR SECTIONS WITH VARYING DEPTHS. MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.

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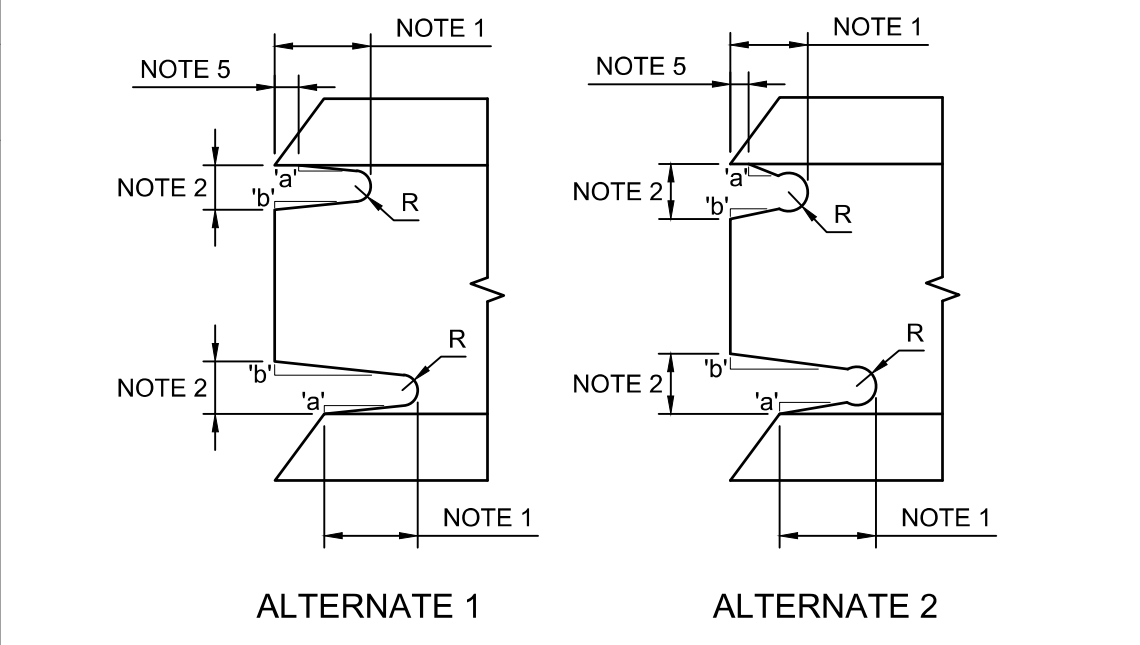
PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING



NON-DESTRUCTIVE TESTING NOTES

- FILLER METALS SHALL CONFORM TO THE REQUIREMENTS OF THE AISC SEISMIC PROVISIONS.
- WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH THE AISC SEISMIC PROVISIONS.
- QUALITY CONTROL AND QUALITY ASSURANCE SHALL BE IN ACCORDANCE WITH THE AISC SEISMIC PROVISIONS.
- WELD ACCESS HOLES SHALL BE IN ACCORDANCE WITH AISC 360-16, SECTION J1.6, AND SHALL BE CONSTRUCTED PER THE FOLLOWING DETAILS & NOTES.

WELD ACCESS HOLE GEOMETRY



- NOTES: THESE ARE TYPICAL DETAILS FOR JOINTS WELDED FROM ONE SIDE AGAINST STEEL BACKING WHERE WELD ACCESS HOLES ARE REQUIRED.
- LENGTH: GREATER OF 1.5w (WEB THICKNESS) OR 1-1/2 IN. (38 MM)
 - HEIGHT: GREATER OF 1.0w OR 3/4 IN. (19 MM) BUT NEED NOT EXCEED 2 IN. (50 MM)
 - R: 3/8 IN. MIN. (10 MM), GRIND THE THERMALLY CUT SURFACES OF WELD ACCESS HOLES IN HEAVY SHAPES AS DEFINED IN SECTIONS A3.1(c) AND (d) OF AISC 360-16.
 - SLOPE 'b' FORMS A TRANSITION FROM THE WEB TO THE FLANGE. SLOPE 'b' MAY BE HORIZONTAL.
 - THE BOTTOM OF THE TOP FLANGE IS TO BE CONTOURED TO PERMIT THE TIGHT FIT OF BACKING BARS WHERE THEY ARE TO BE USED.

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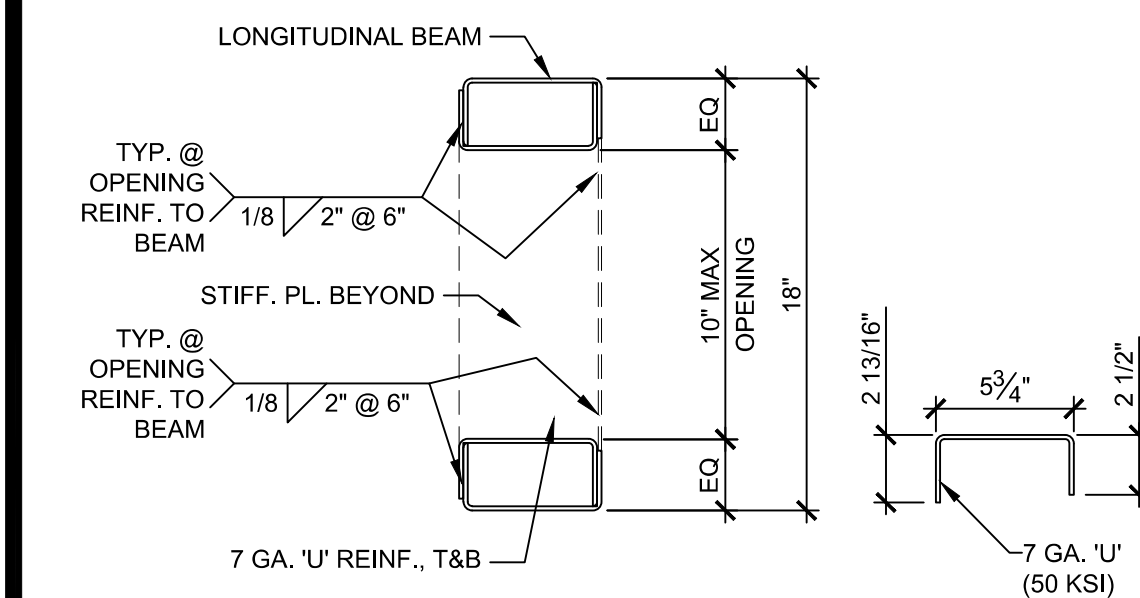


TYPICAL ROOF CHANNEL TO HSS DETAIL

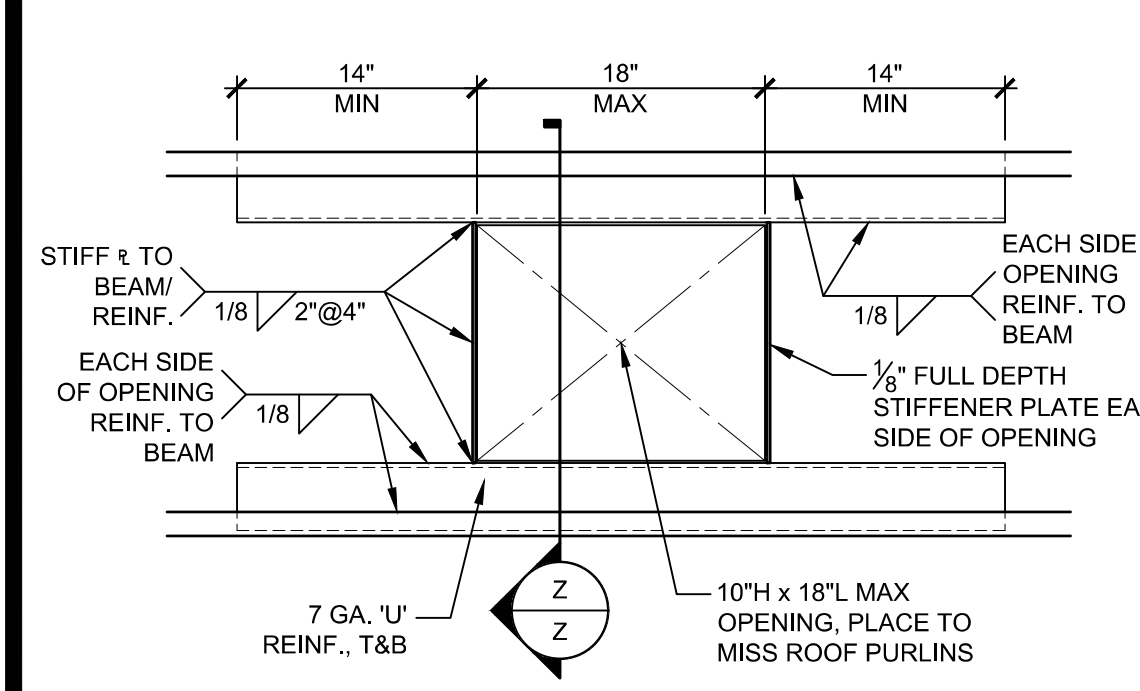
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NOT USED

NOT USED

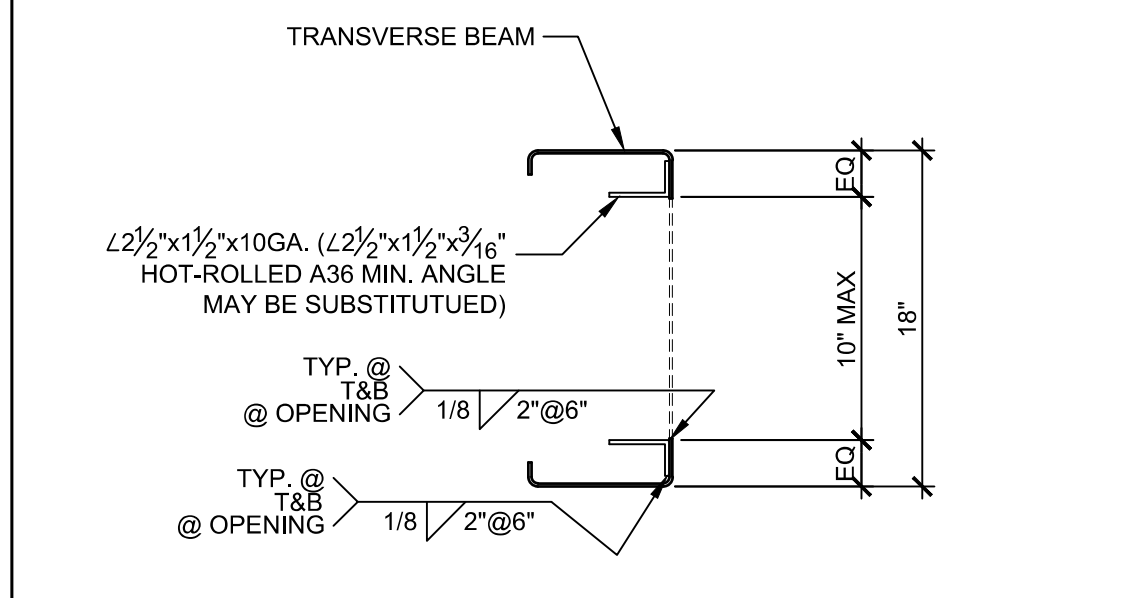


OPENING IN LONGITUDINAL BEAMS

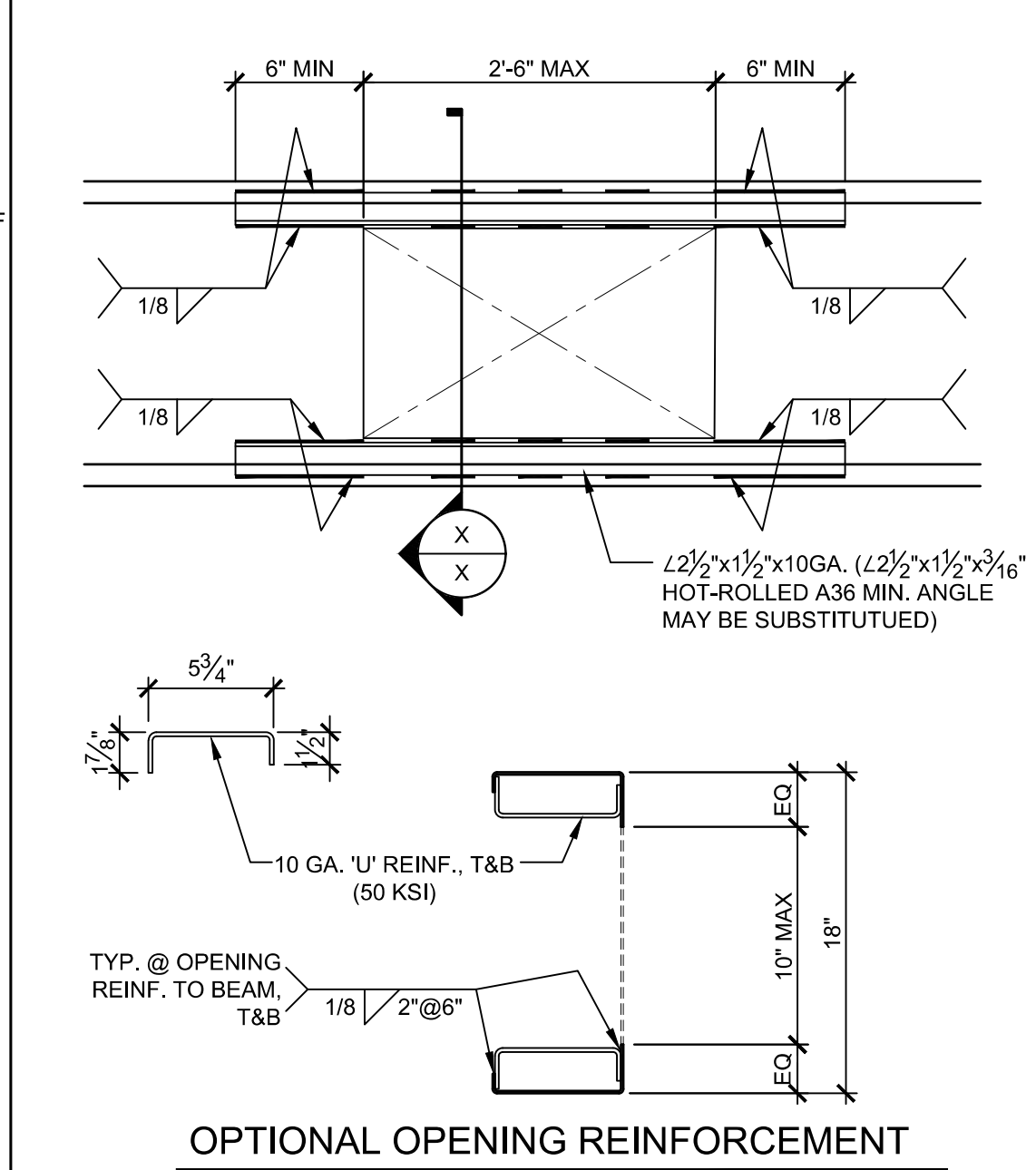


OPTIONAL OPENING REINFORCEMENT

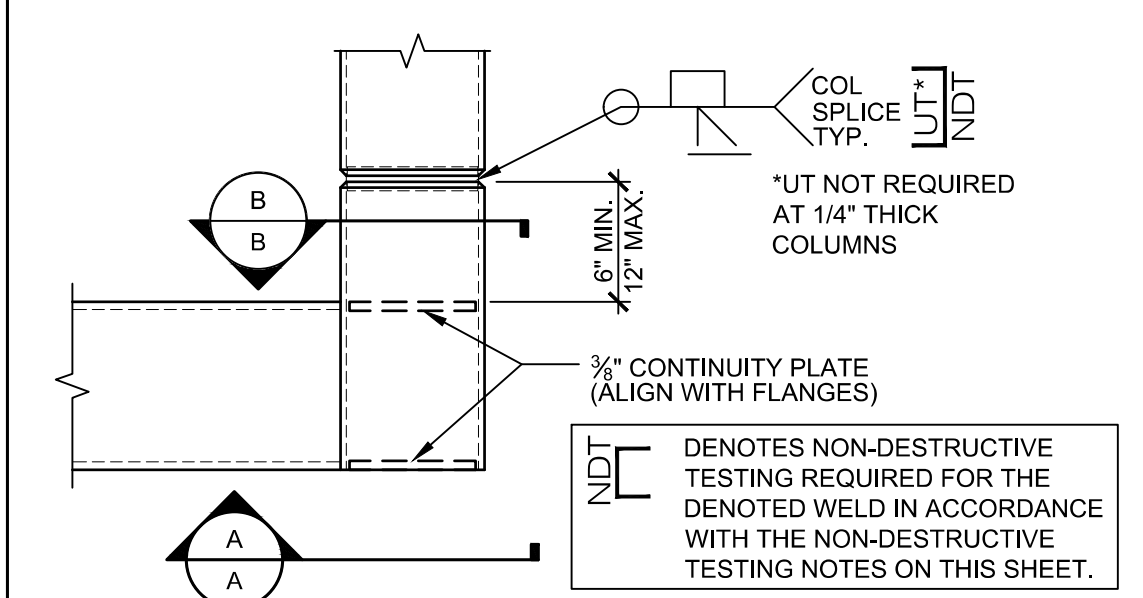
- NOTES:
1. BEAM OPENING(S), LOCATED AT EXTERIOR WALLS w/ STUD WALL BELOW, MAY BE CONSTRUCTED PER DETAIL 4/S5.1.



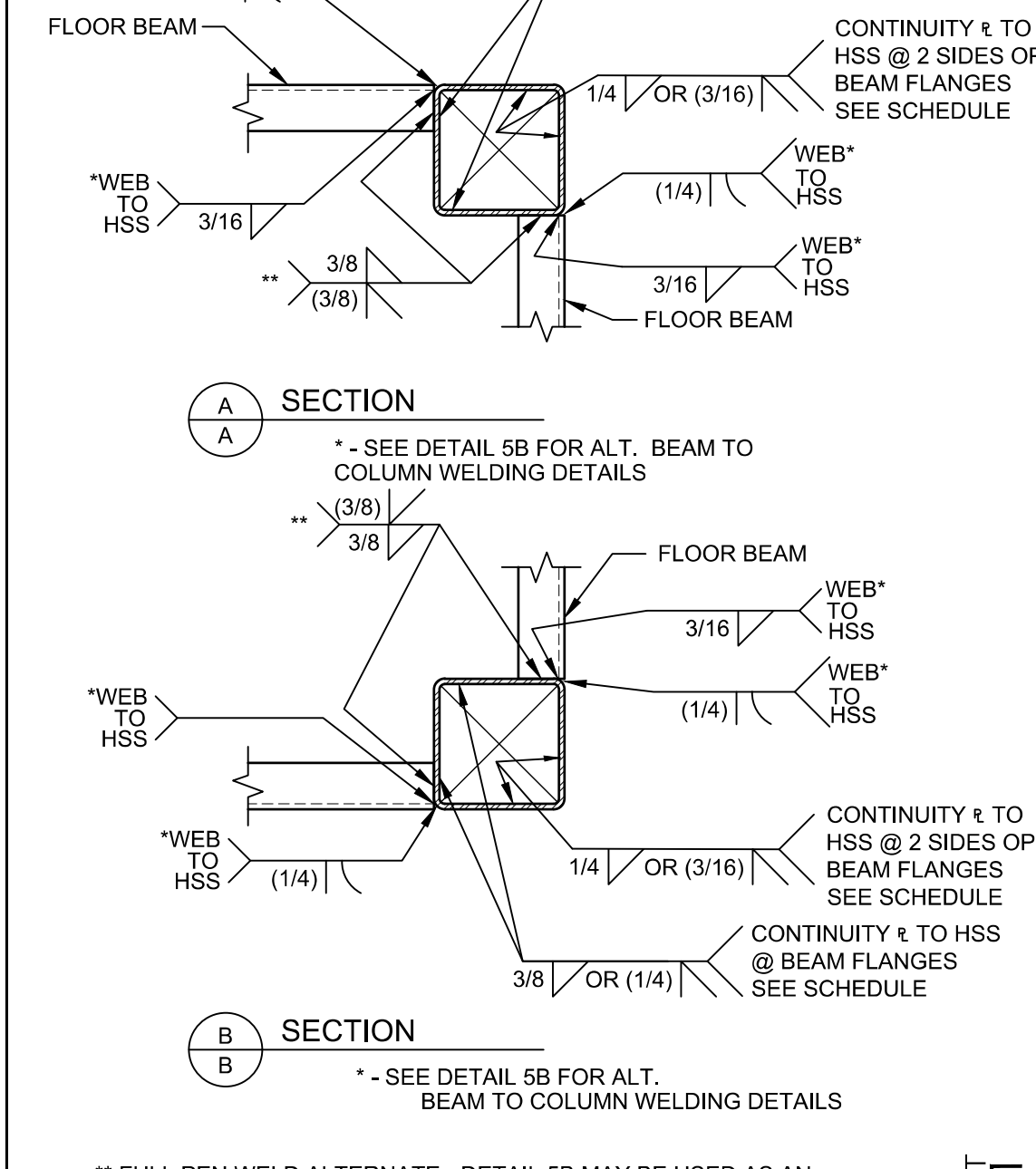
TYP. CORNER TO FLOOR BM DETAIL



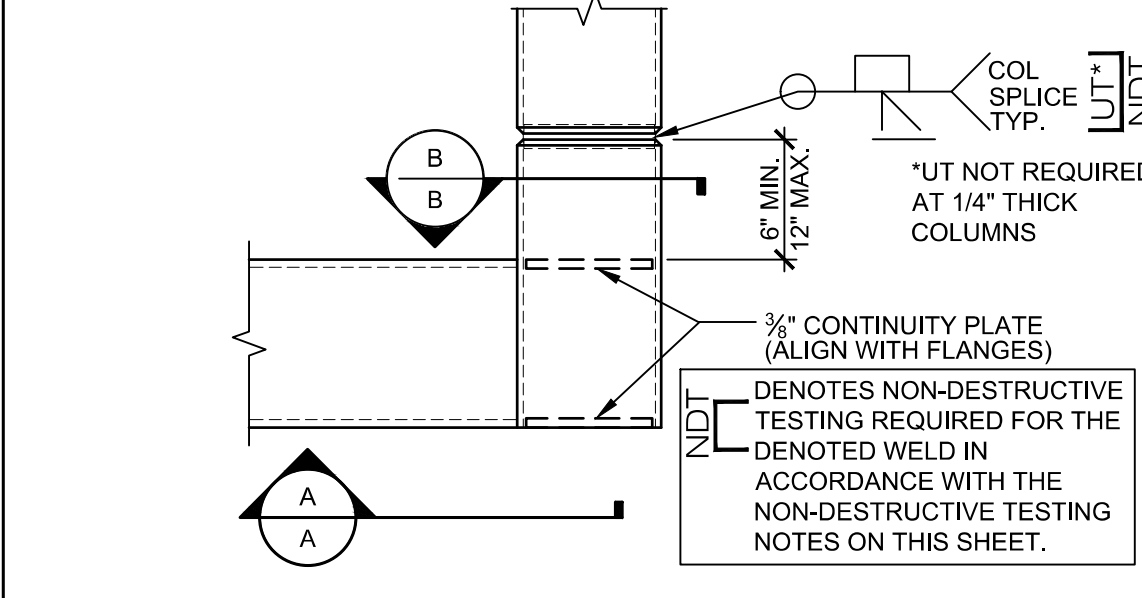
OPENING @ ROOF BEAMS (TRANSVERSE BEAMS)



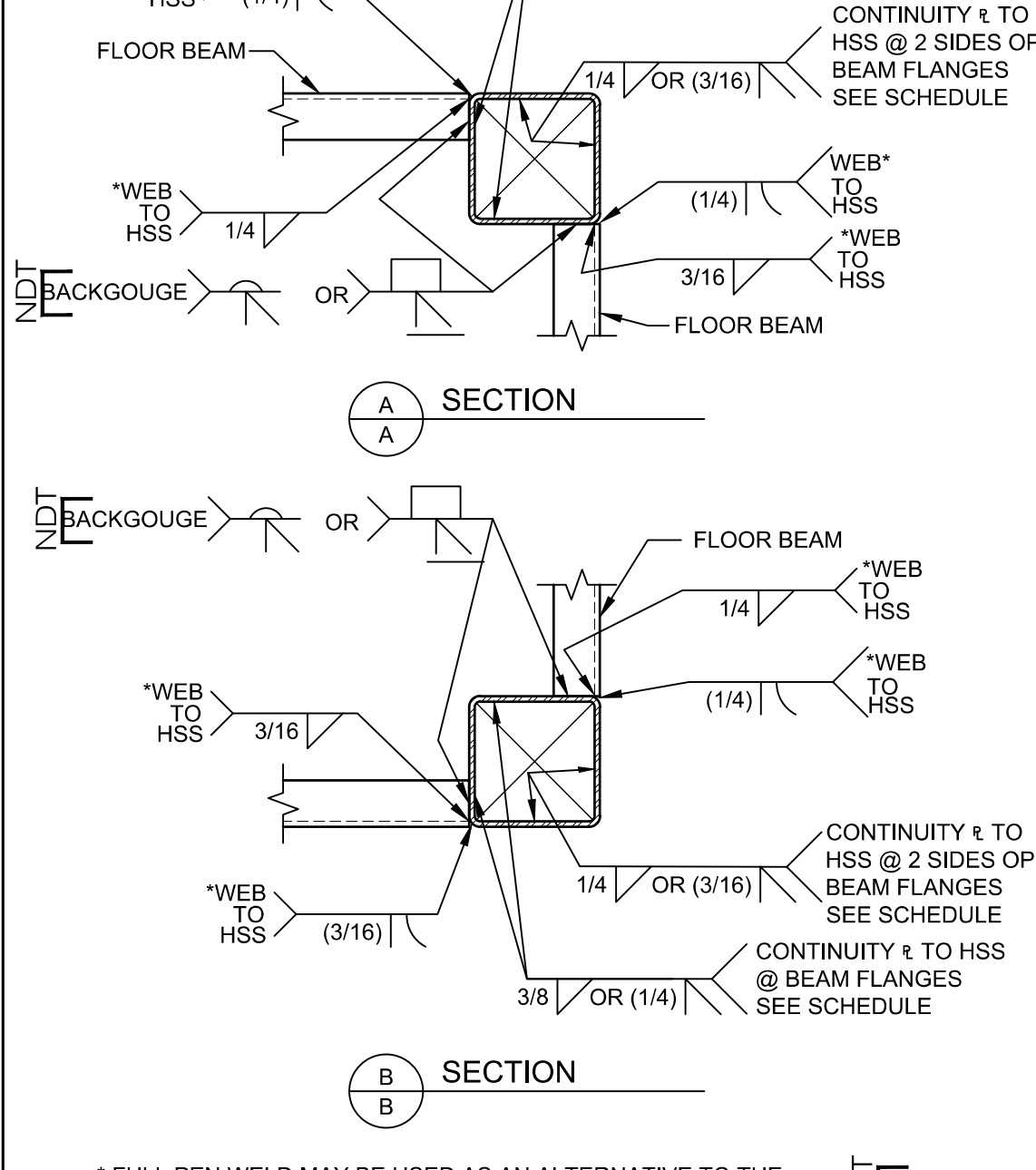
SECTION



SECTION

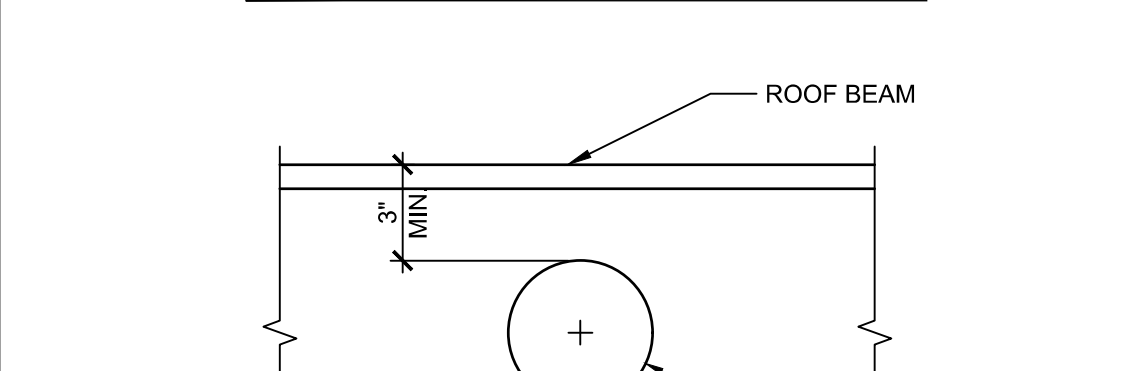
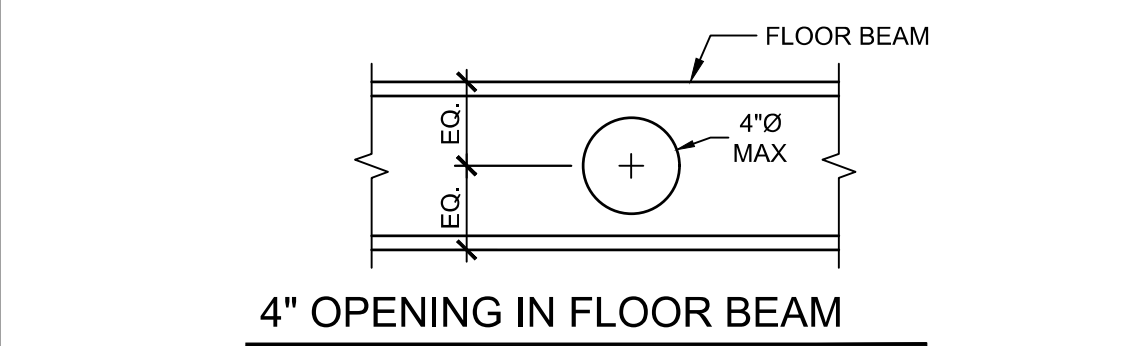


SECTION



SECTION

REQ. FOR FR. MOMENT CONNECTIONS



OPENING IN BEAMS

REVISIONS

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE: MOMENT FRAME CONNECTION DETAILS
SHEET NUMBER:

S5.1

OPENING @ ROOF BEAMS (LONGITUDINAL BEAMS)

OPENING @ ROOF BEAMS (TRANSVERSE BEAMS)

TYP. CORNER TO FLOOR BM DETAIL

NOT USED

OPENING IN BEAMS

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

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 APP: 02-120247 INC:
 REVIEWED FOR
 SS FLS ACS
 DATE: 06/24/2022

AMS
 American Modular Systems
 787 Spreckels Ave., Manteca, CA 95336
 Phone (209) 825-1921 Fax (209) 825-7018
 www.americanmodular.com

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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM

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 MANUFACTURER PROFESSIONAL OF RECORD ON PC

REGISTERED ARCHITECT
 MATT JAMES
 No. C12631
 Ren. 3-31-23
 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
 MANNY D. FRAJNDLICH
 No. 5180
 Exp. 07/31/22
 STATE OF CALIFORNIA

12/21/2021
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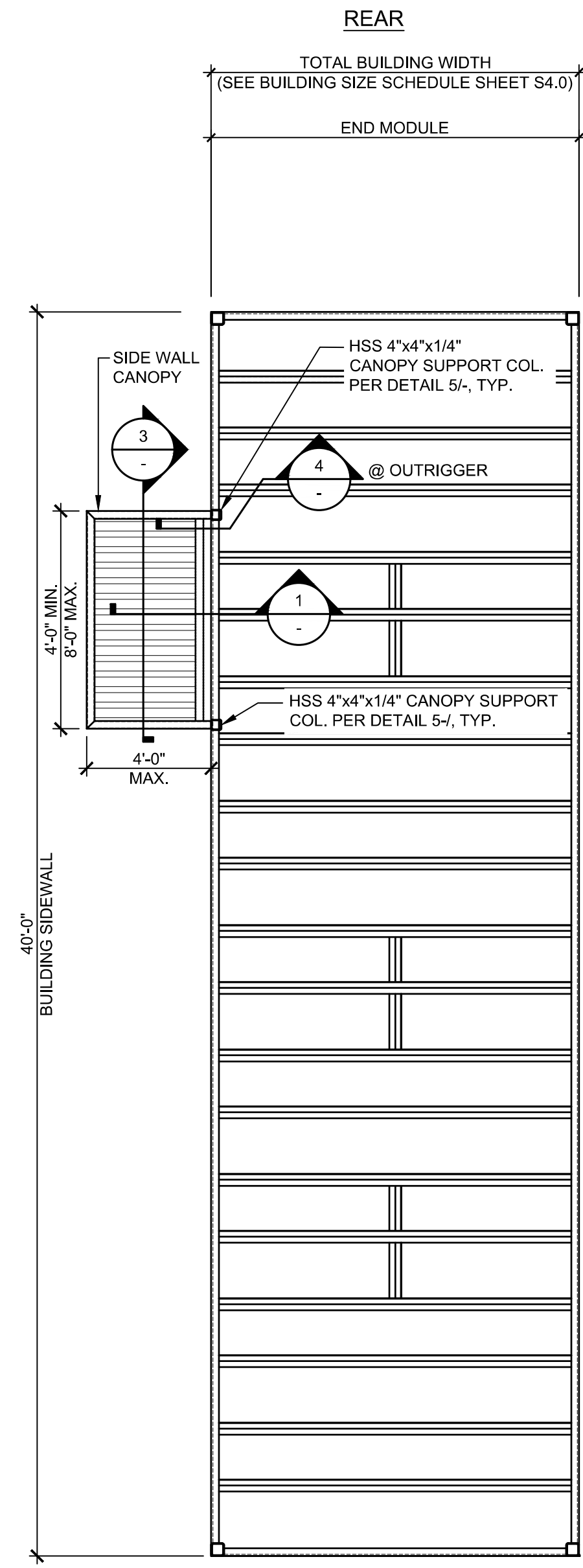
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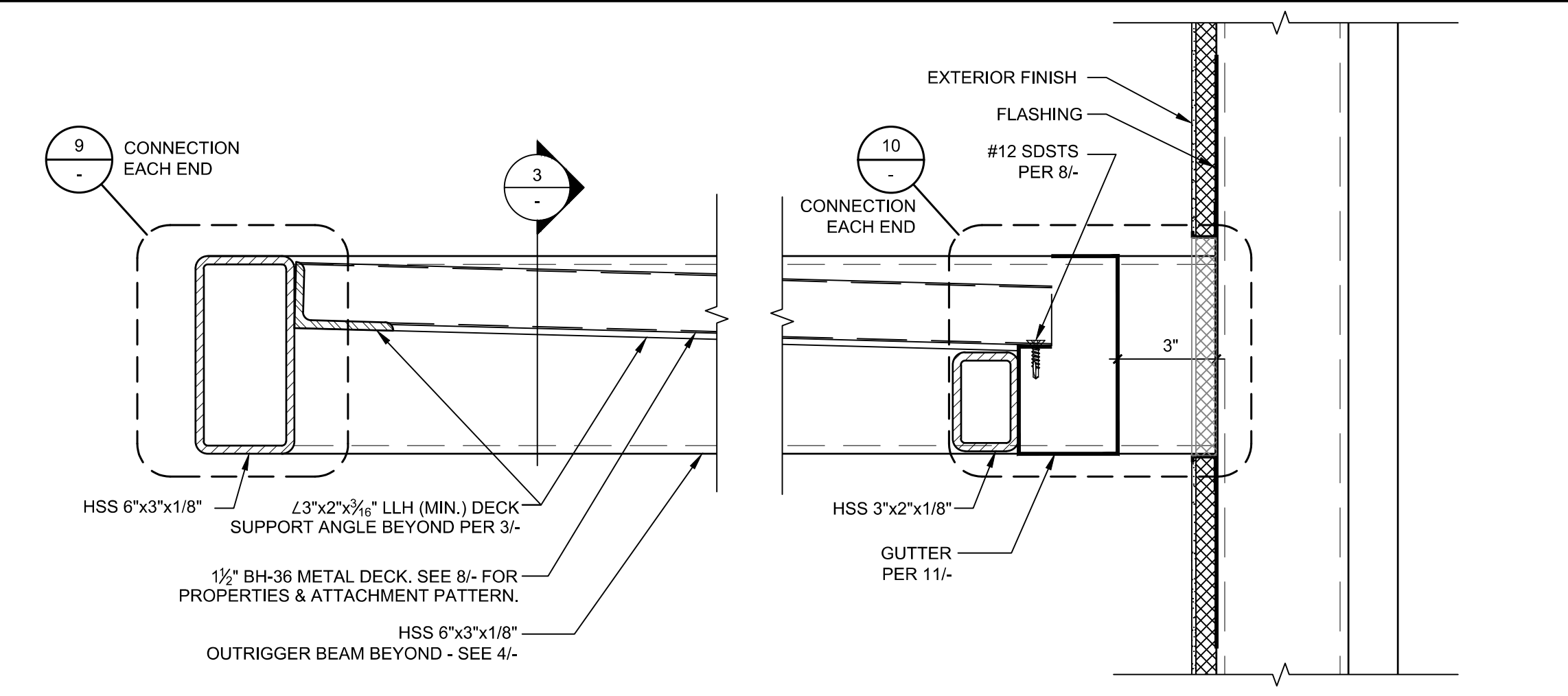
SHEET TITLE:
OPTIONAL SIDE WALL CANOPY PLAN & DETAILS

SHEET NUMBER:

S5.4A

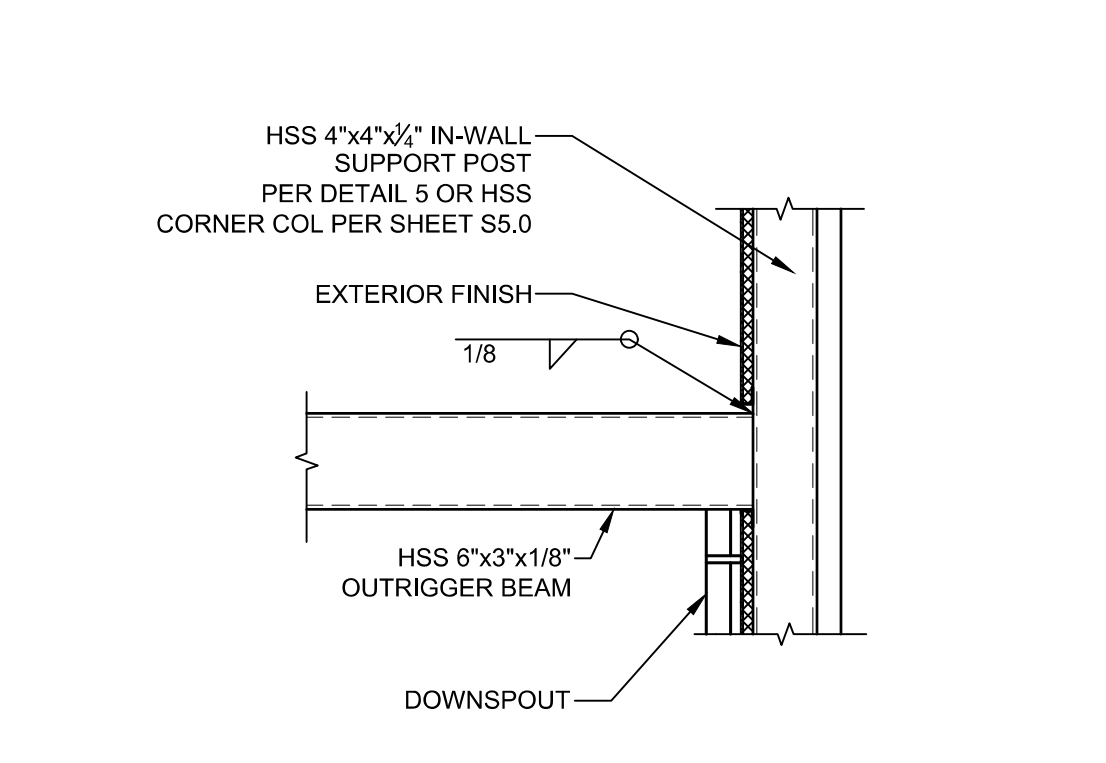


NOTE:
 1. OPTIONAL SIDE WALL CANOPY MAY BE LOCATED ANYWHERE ALONG THE SIDEWALLS OF THE BUILDING.
 2. WHEN PURLIN SPACING IS GREATER THAN 24" O.C., AN ADDITIONAL PURLIN SHALL BE ADDED @ EA. HSS SUPPORT COLUMN.

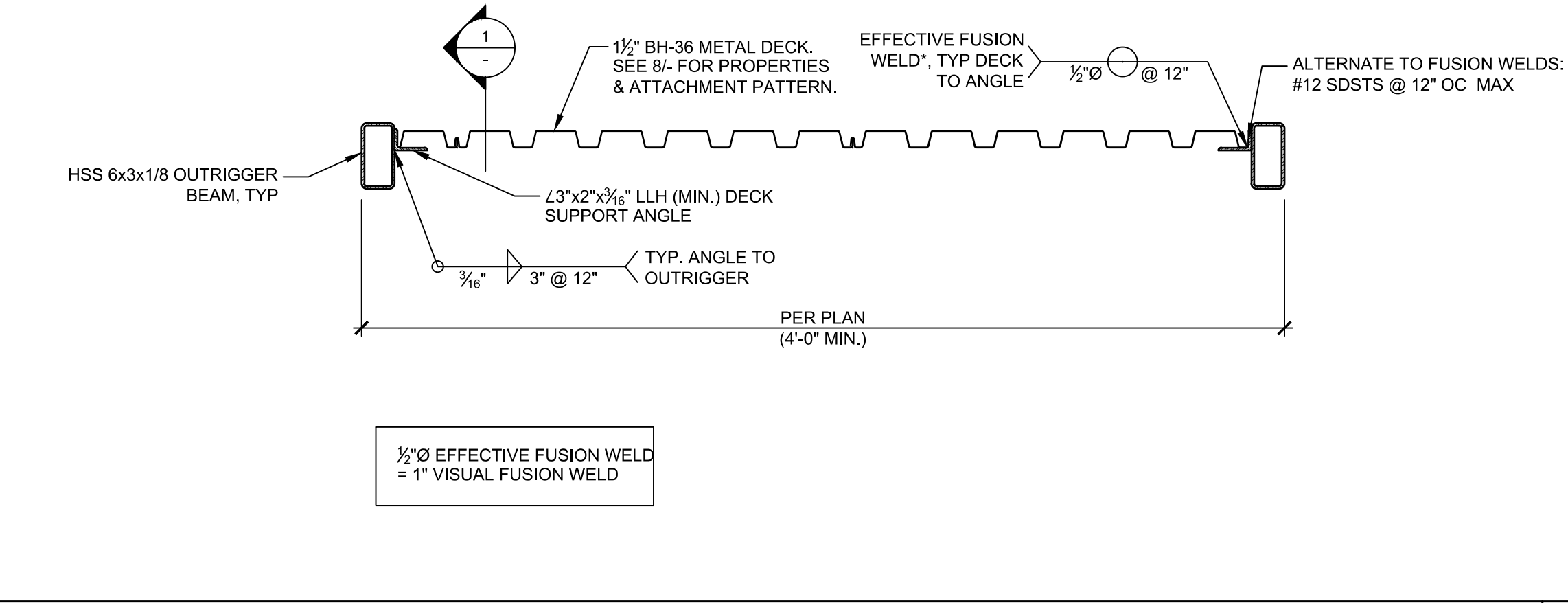


SIDE WALL CANOPY SECTION SCALE: 3/4"=1'-0" 1

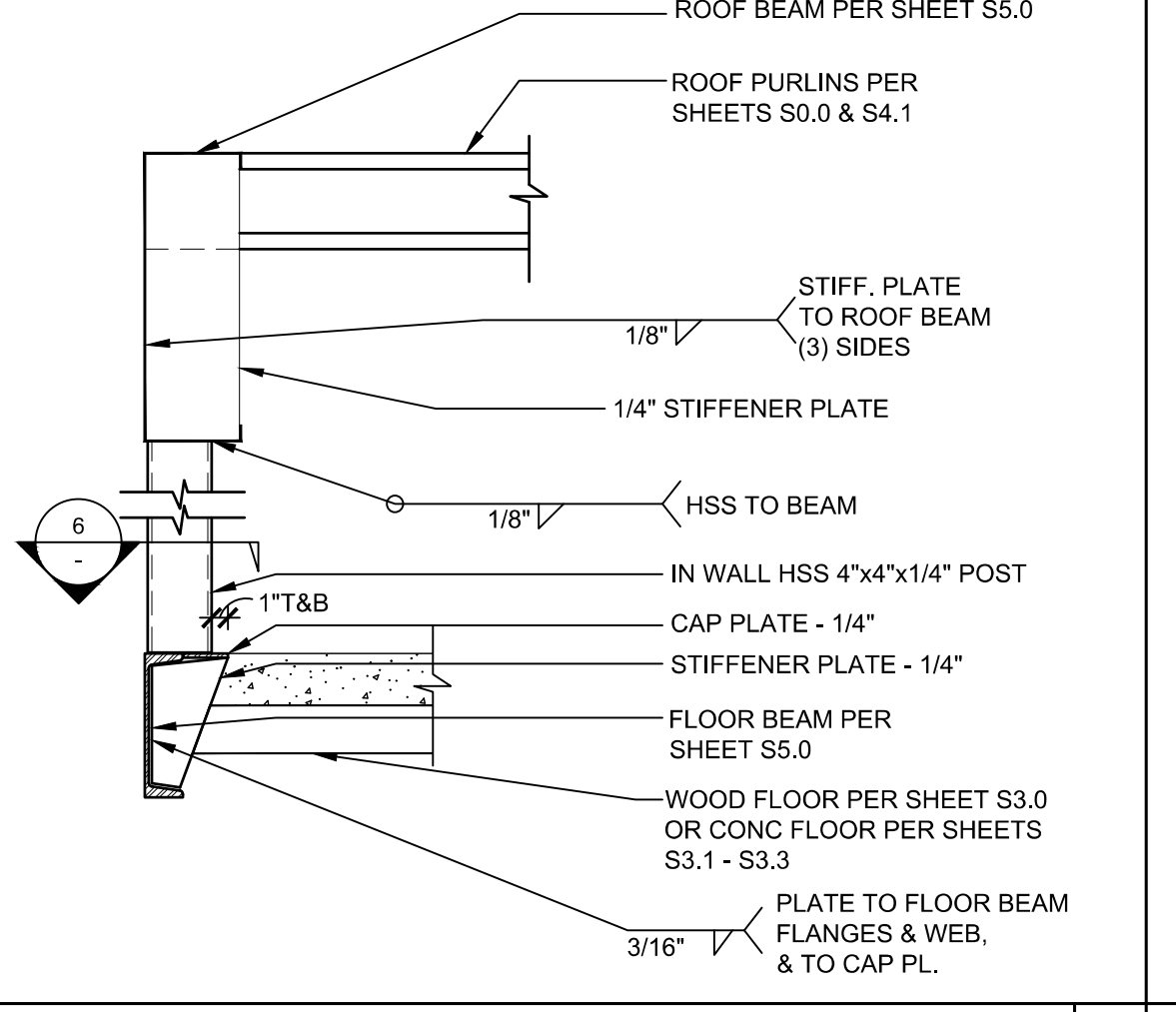
KEY NOTES



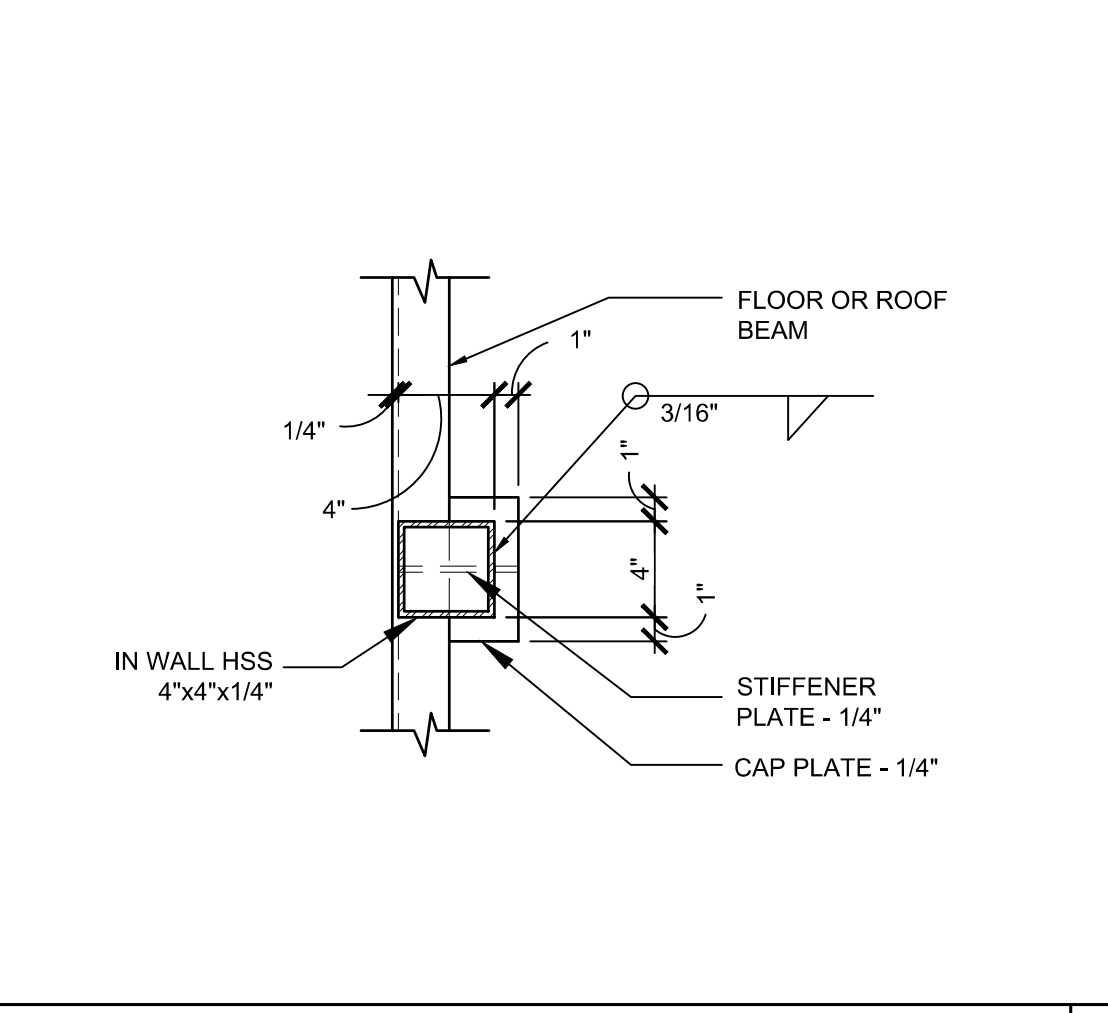
CANOPY OUTRIGGER DETAIL SCALE: 1/2"=1'-0" 4



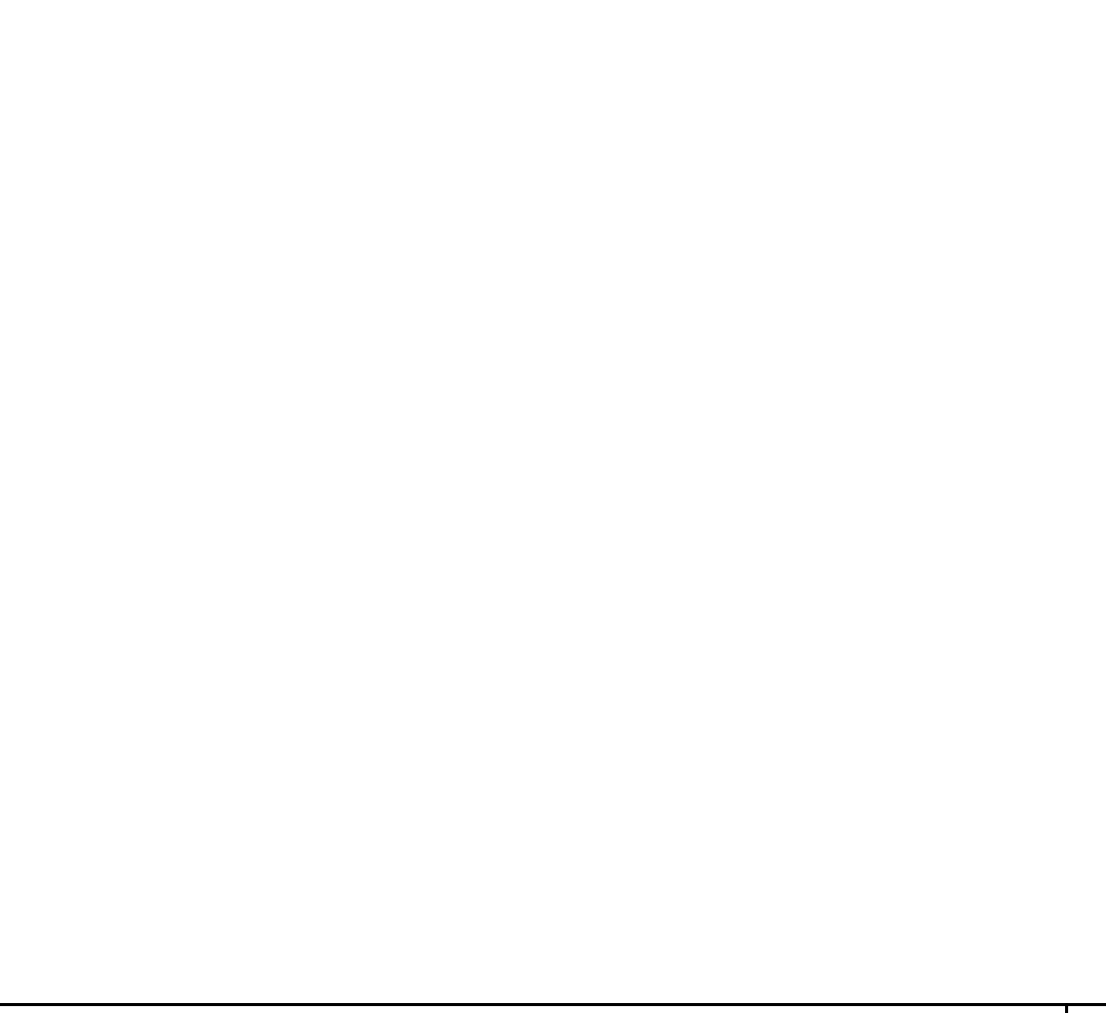
CANOPY - DRIP PAN SUPPORTS SCALE: 1/2"=1'-0" 3



IN-WALL CANOPY SUPPORT COL. SCALE: 1/2"=1'-0" 5



BASE PLATE DETAIL SCALE: 1/2"=1'-0" 6

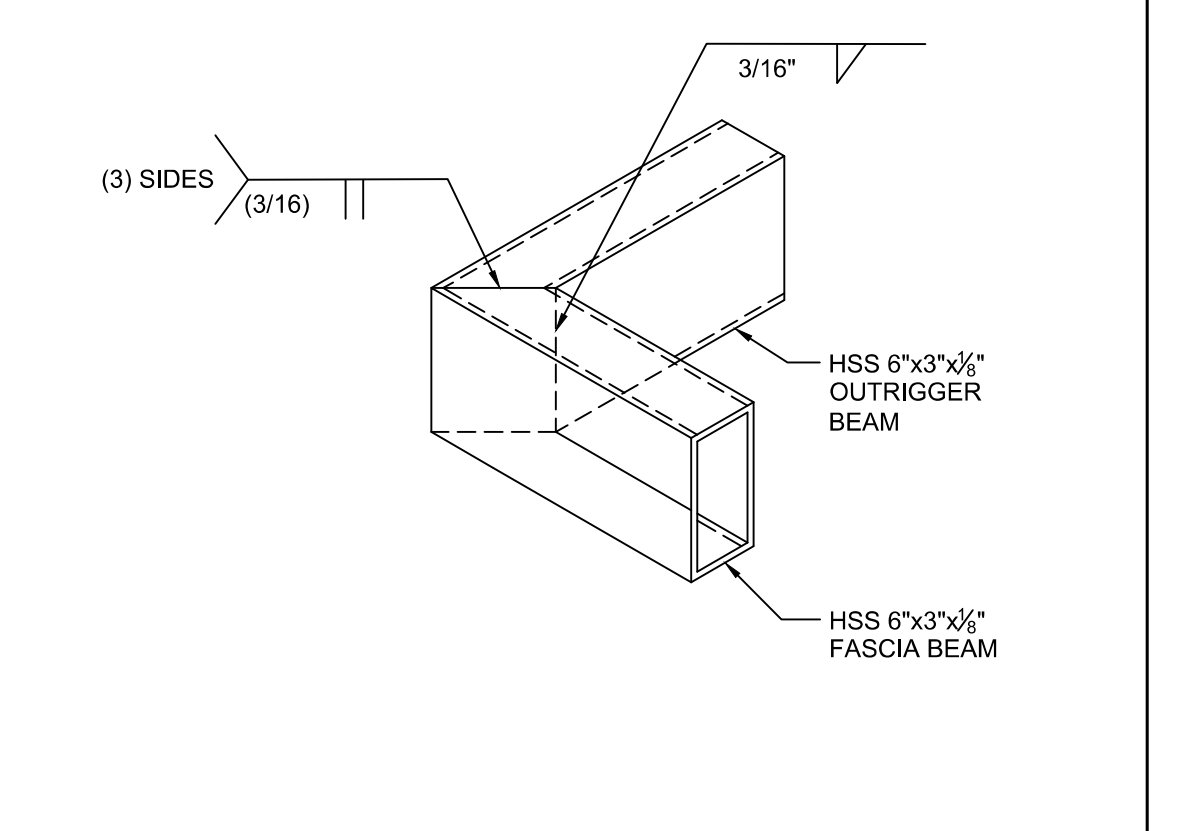


NOT USED 7

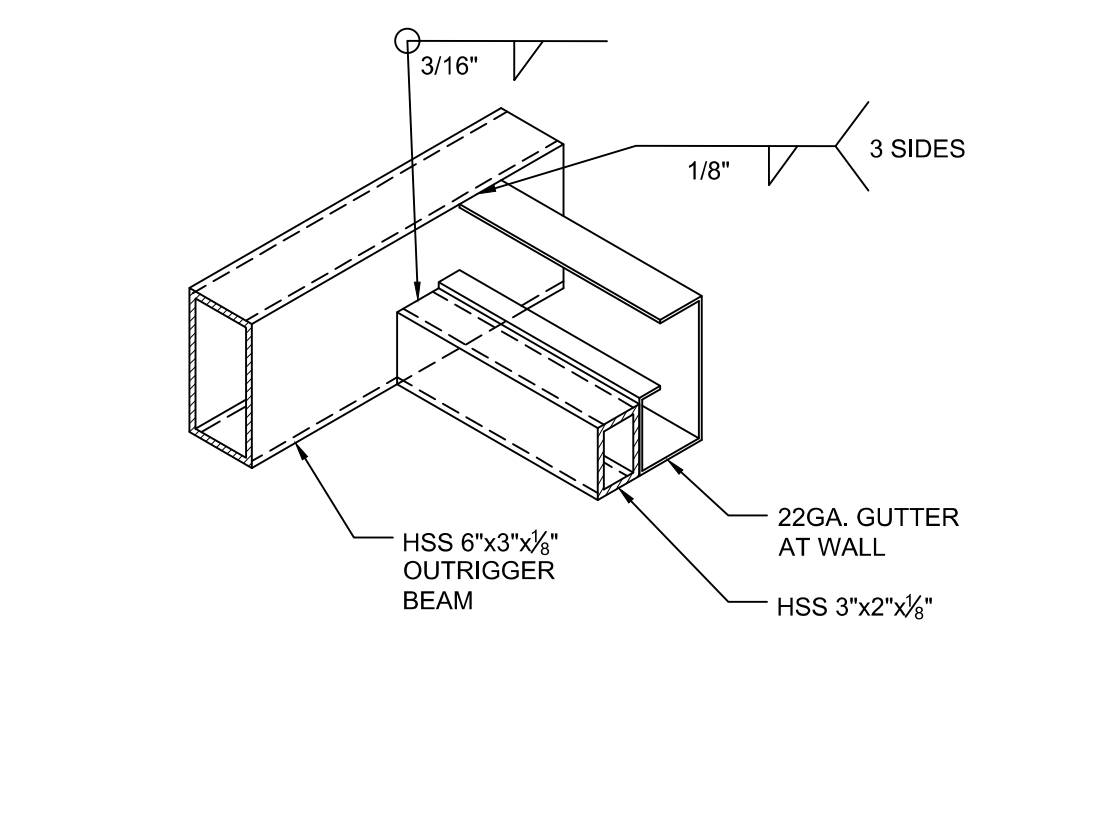
SIDE WALL CANOPY - STRUCTURAL PLAN SCALE: 1/4"=1'-0" A

BH-36 METAL DECK PROPERTIES & PROFILE						
PLAN DESIGNATION	DECK TYPE	MINIMUM EFFECTIVE PROPERTIES				DECK PROFILE
		S ₊	S ₋	I ₊	I ₋	
		IN ³ /FT	IN ³ /FT	IN ⁴ /FT	IN ⁴ /FT	
	1/2"-18GA ASC BH-36 GALV DECK (36" WIDE)	0.311	0.329	0.287	0.313	
NOTE: ASC STEEL DECKING: IAPMO UES ER #0329						* 1/2" EFFECTIVE FUSION WELDS* ALTERNATE: (4) #12 SDS TS (SEE 3/- FOR ATTACHMENT @ PARALLEL SUPPORTS) * 1/2" EFFECTIVE FUSION WELD = 1" VISUAL FUSION WELD - SIDE LAP ATTACHMENT TO BE BUTT PUNCHED @ 24" O.C. WHEN WELDED - SIDE LAP ATTACHMENT TO BE #10 SDS TS @ 24" O.C. WHEN SCREWED

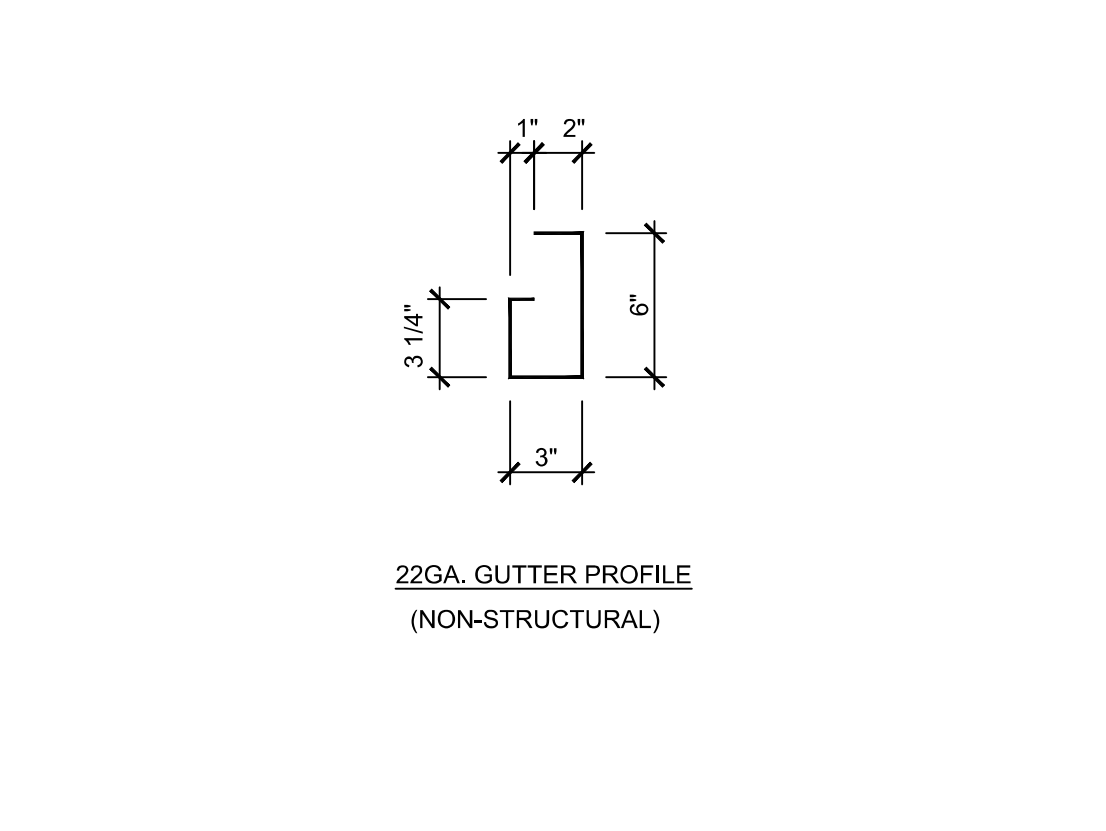
BH-36 METAL DECK PROPERTIES & PROFILE SCALE: 1/4"=1'-0" 8



OUTRIGGER @ FRONT CORNER SCALE: 1/2"=1'-0" 9



OUTRIGGER @ REAR SCALE: 1/2"=1'-0" 10



GUTTER PROFILE SCALE: 1/2"=1'-0" 11

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PRE-CHECKED SET NAME
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FORM

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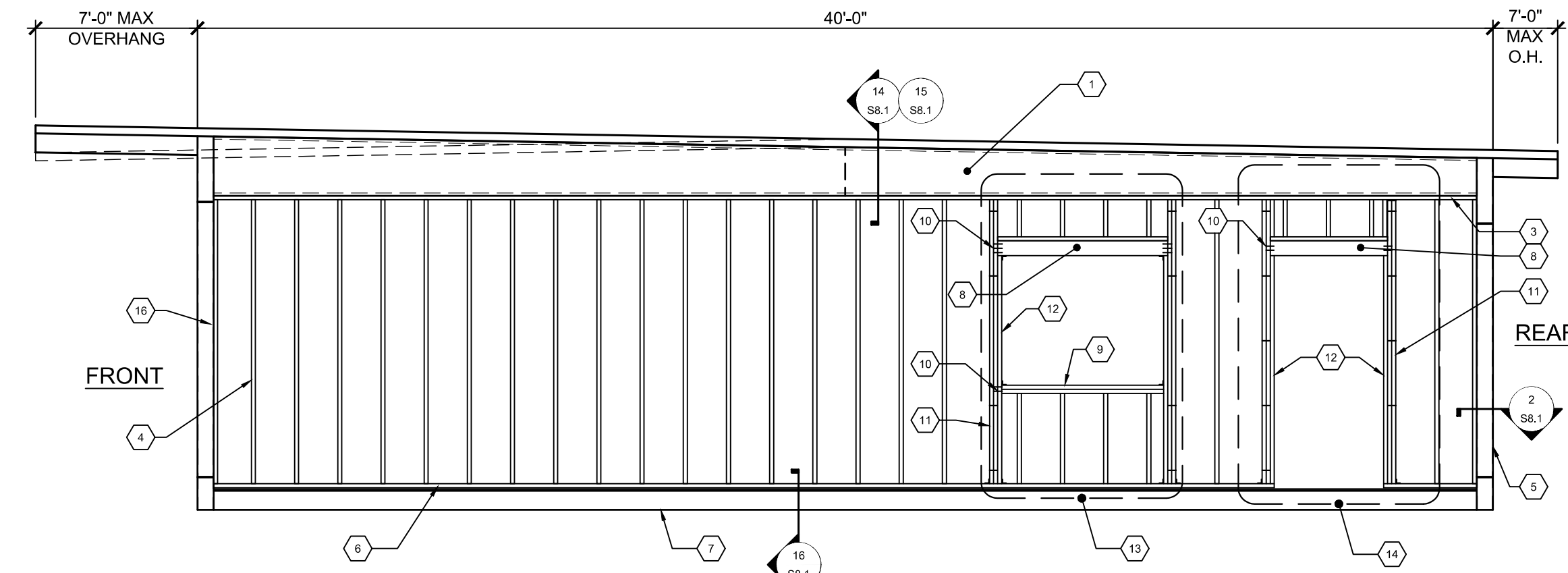
REVISIONS

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YYYY
PROJECT NO: XXXX-20

SHEET TITLE:
WALL FRAMING ELEVATIONS & SCHEDULES - WOOD STUDS

SHEET NUMBER:

S8.0



NOTE: SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

- 1 ROOF BEAM PER SHEET S5.0
- 2 2x6 MIN. TOP PLATE - NO SPLICE
- 3 2x6 MIN. TOP PLATE
- 4 2x6 MIN. STUDS SPACED PER SCHEDULE W/(3) 0.131"Ø x3" END NAILS OR (4) 0.131"Ø x3" TOE NAILS T&B TO PLATES TYP.
- 5 HSS COLUMN PER SHEET S5.0
- 6 2x6 MIN. BOTTOM PLATE - NO SPLICE (P.T. AT CONCRETE FLOORS)
- 6A 2x6 MIN. BOTTOM PLATE (P.T. AT CONCRETE FLOORS)
- 7 PERIMETER FLOOR BEAM PER SHEET S5.0
- 8 HEADER PER OPENING SCHEDULE
- 9 WINDOW SILL PER OPENING SCHEDULE

- 10 END NAILS THROUGH KING STUD TO HEADER SILL PER OPENING SCHEDULE
- 11 KING STUDS PER OPENING SCHEDULE
- 12 2x6 MIN. TRIMMER
- 13 OPTIONAL WINDOW OPENING FRAMING PER SCHEDULE (REFER TO 4/S8.0 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
- 14 OPTIONAL DOOR OPENING FRAMING PER SCHEDULE (REFER TO 5/S8.0 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
- 15 HVAC OPENING @ EXTERIOR WALL (600#MAX WT.) SEE DETAIL 3/S8.1 FOR HVAC ATTACHMENT - SEE DETAIL 3/S8.1 FOR HVAC ATTACHMENT
- 16 2x DOUBLE NAILER

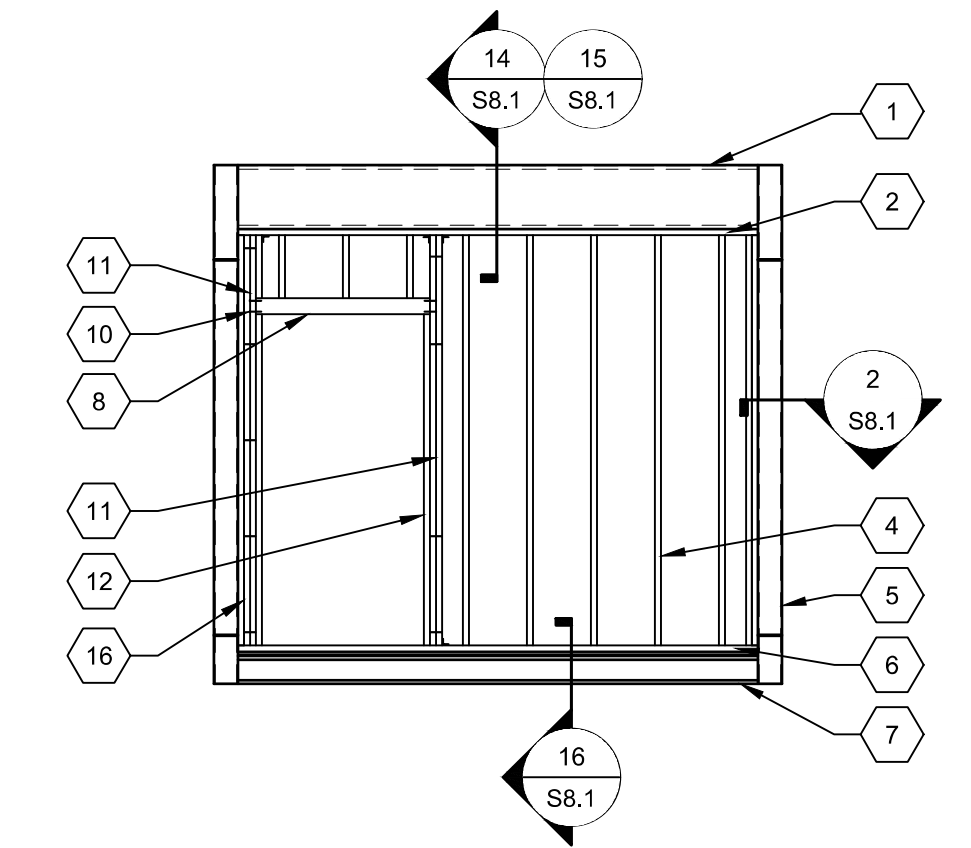
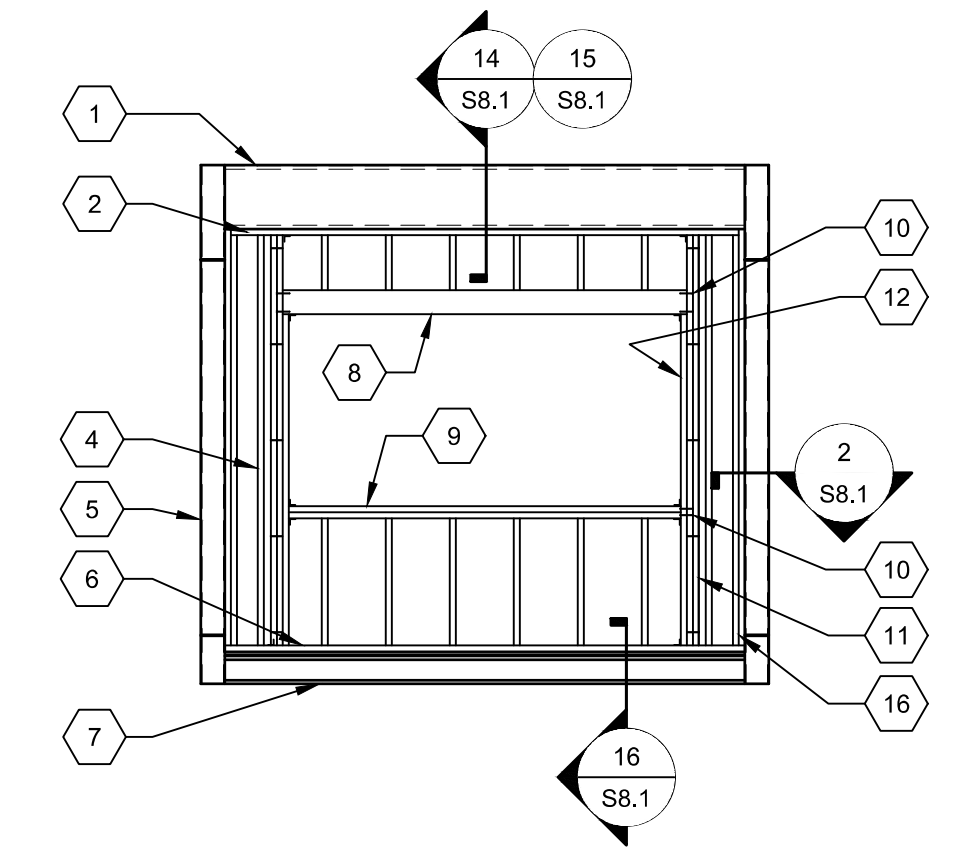
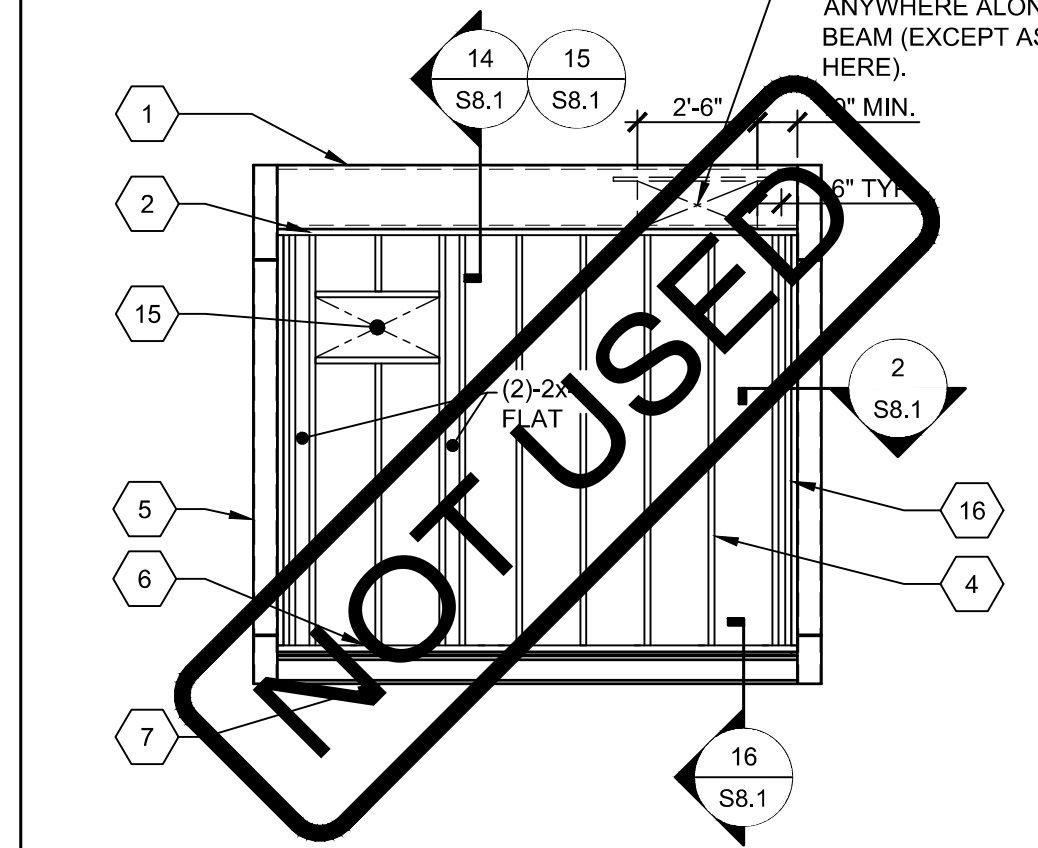
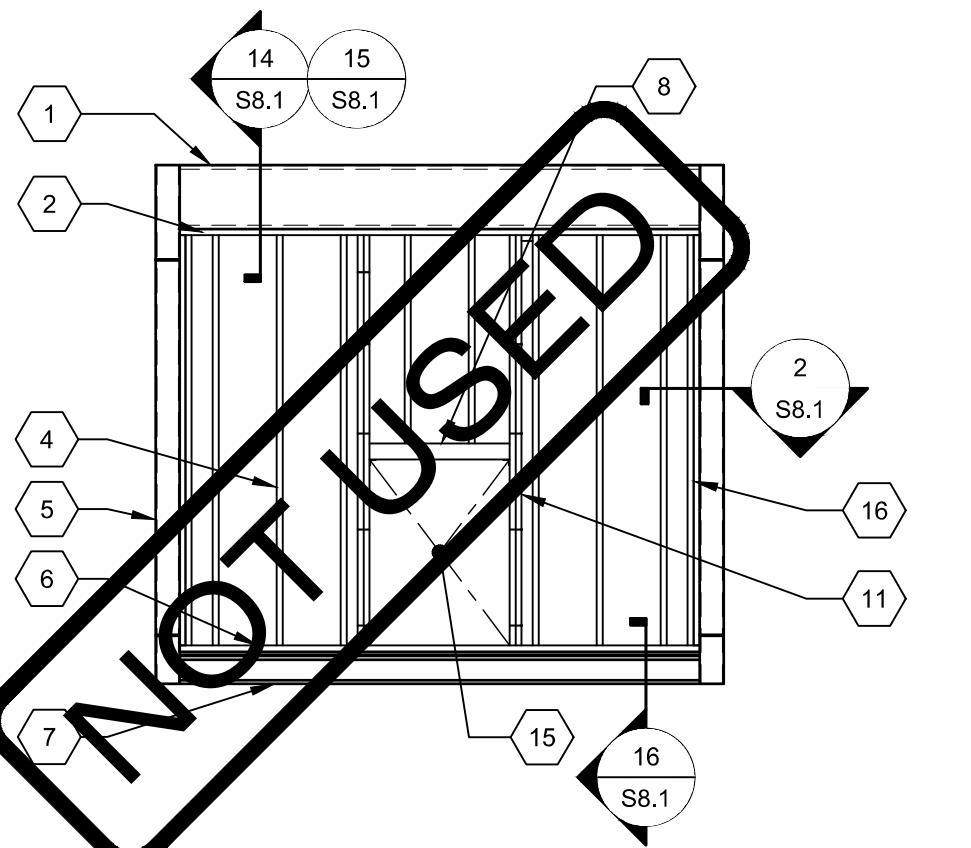
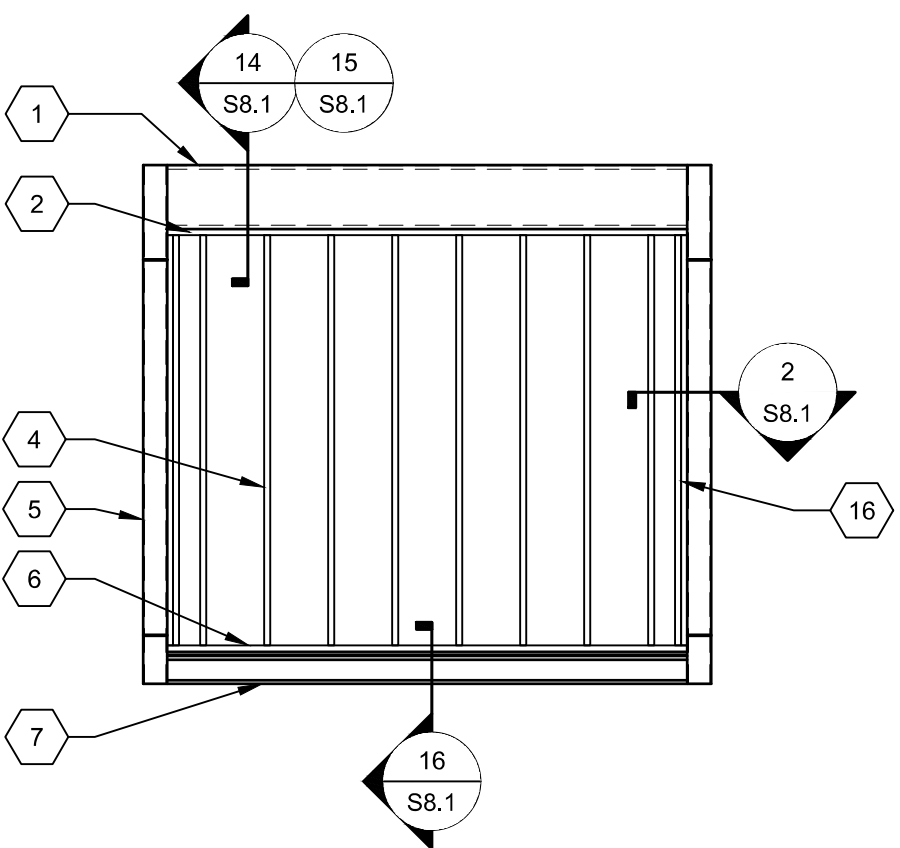
NOTE: SEE CARPENTRY NOTES SHEET N1.0 SECTION 6 FOR WOOD SPECIES & GRADE

KEY NOTES

EXTERIOR WALL SCHEDULE			
FINISH TYPE	WALL FINISH COMMENTS	STUD TYPE	STUD SPACING
1/2" PLYWOOD SHEATHING PER PS1-09, VERTICAL GROOVES @ 8" O.C.	WALL FINISH PER A5.0 & A5.1	HEM FIR #2 OR DOUG FIR #2	16" O.C. MAX
1/2" HARDI-BBOARD w/ SYNTHETIC STUCCO OR 1/2" HARDI-LAP SIDING	WALL FINISH PER A5.4, A5.5, A5.6 & A5.7	HEM FIR #2 OR DOUG FIR #2	16" O.C. MAX
1/2" PLYWOOD SHEATHING CONFORMING TO PS1-09, APA RATED, 5 PLY 32/16", OR 1/2" OSB PANELS EXPOSURE 1 w/ 1/2" STUCCO	WALL FINISH PER A5.2 & A5.3; NAILING PER BLDG SECTIONS ^{1,2}	HEM FIR #2 OR DOUG FIR #2	16" O.C. MAX

- FOOTNOTES**
- ALL NAILS IN EXTERIOR APPLICATIONS SHALL BE GALVANIZED.
 - TYPICAL PLYWOOD NAILING WHERE OCCURS: 0.131"Ø x2 1/2" GALV. NAILS @ 6" O.C. E.N. & 12" O.C. F.N. (ALL EDGES BLOCKED).

TYPICAL SIDE WALL FRAMING (MONO/DUAL PITCH)



NOTE: SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.
TYP. END WALL FRAMING W/ NO OPENINGS
SCALE: 1/4"=1'-0"

NOTE: SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.
TYP. END WALL FRAMING W/ INDOOR HVAC UNIT (OPTIONAL)
SCALE: 1/4"=1'-0"

NOTE: SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.
TYP. END WALL FRAMING W/ WALL HUNG HVAC UNIT (OPTIONAL)
SCALE: 1/4"=1'-0"

NOTE: SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.
TYPICAL END WALL FRAMING WINDOW
SCALE: 1/4"=1'-0"

NOTE: SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.
TYPICAL END WALL FRAMING W/ DOOR
SCALE: 1/4"=1'-0"

DOOR/WINDOW OPENING AT TYPICAL WALL (NO STUCCO)							
OPENING SIZE	HEADER	WINDOW SILL ² (AS APPLICABLE)	KING STUDS ¹	HEADER TO KING STUD NAILING		WINDOW SILL TO KING STUD NAILING	
				# END NAILS TO HEADERS ³ (0.131"Øx3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ HEADER (0.131"Øx3" NAILS)	# END NAILS TO WINDOW SILL ³ (0.131"Øx3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ WINDOW SILL (0.131"Øx3" NAILS)
>8'-0" TO 10'-0"	6x6	(2) 2x6	(2) 2x6	6	3	4	2
>6'-0" TO 8'-0"	6x6	(4) 2x6	(2) 2x6	5	3	3	2
>4'-0" TO 6'-0"	4x6 FLAT	(1) 2x6	(2) 2x6	4	2	3	2
4'-0" OR LESS	4x6 FLAT	(1) 2x6	(2) 2x6	4	2	3	2

DOOR/WINDOW OPENING AT STUCCO WALL								
OPENING SIZE	HEADER	WINDOW SILL ² (AS APPLICABLE)	KING STUDS ¹	KING STUD INTERNAL SPACING	HEADER TO KING STUD NAILING		WINDOW SILL TO KING STUD NAILING	
					# END NAILS TO HEADERS ³ (0.131"Øx3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ HEADER (0.131"Øx3" NAILS)	# END NAILS TO WINDOW SILL ³ (0.131"Øx3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ WINDOW SILL (0.131"Øx3" NAILS)
>8'-0" TO 10'-0"	6x6	(2) 2x6	(3) 2x6	0.131"Øx3" NAILS @ 12" O.C. MAX STAGGERED	6	3	4	2
>6'-0" TO 8'-0"	6x6	(2) 2x6	(3) 2x6	0.131"Øx3" NAILS @ 12" O.C. MAX STAGGERED	5	3	4	2
>4'-0" TO 6'-0"	4x6 FLAT	(1) 2x6	(2) 2x6	0.131"Øx3" NAILS @ 12" O.C. MAX STAGGERED	4	2	3	2
4'-0" OR LESS	4x6 FLAT	(1) 2x6	(2) 2x6	0.131"Øx3" NAILS @ 12" O.C. MAX STAGGERED	4	2	3	2

- FOOTNOTES**
- PROVIDE (2) SIMPSON A34 T&B OF KING STUDS TO PLATES FOR OPENINGS GREATER THAN 4'-0". PROVIDE (1) SIMPSON A34 T&B OF KING STUDS TO PLATES FOR OPENINGS 4'-0" OR LESS.
 - WHEN MORE THAN A SINGLE SILL PLATE IS REQUIRED PLATE(S) TO BE INSTALLED FLAT, INTERNAL W/ 0.131"Øx3" NAILS @ 12" O.C. STAGGERED.
 - TWO (2) END NAILS PER LAMINATION MINIMUM.

OPENING SCHEDULE

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AMS
 American Modular Systems
 787 Spreckels Ave., Manteca, CA 95336
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 MANUFACTURER PROFESSIONAL OF RECORD ON PC

Licensed Architect
 PATRICK CANNON
 No. C12631
 Ren. 3-31-23
 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL
 MANNY D. FRAZEE
 No. 10880
 Exp. 07/31/22
 STATE OF CALIFORNIA

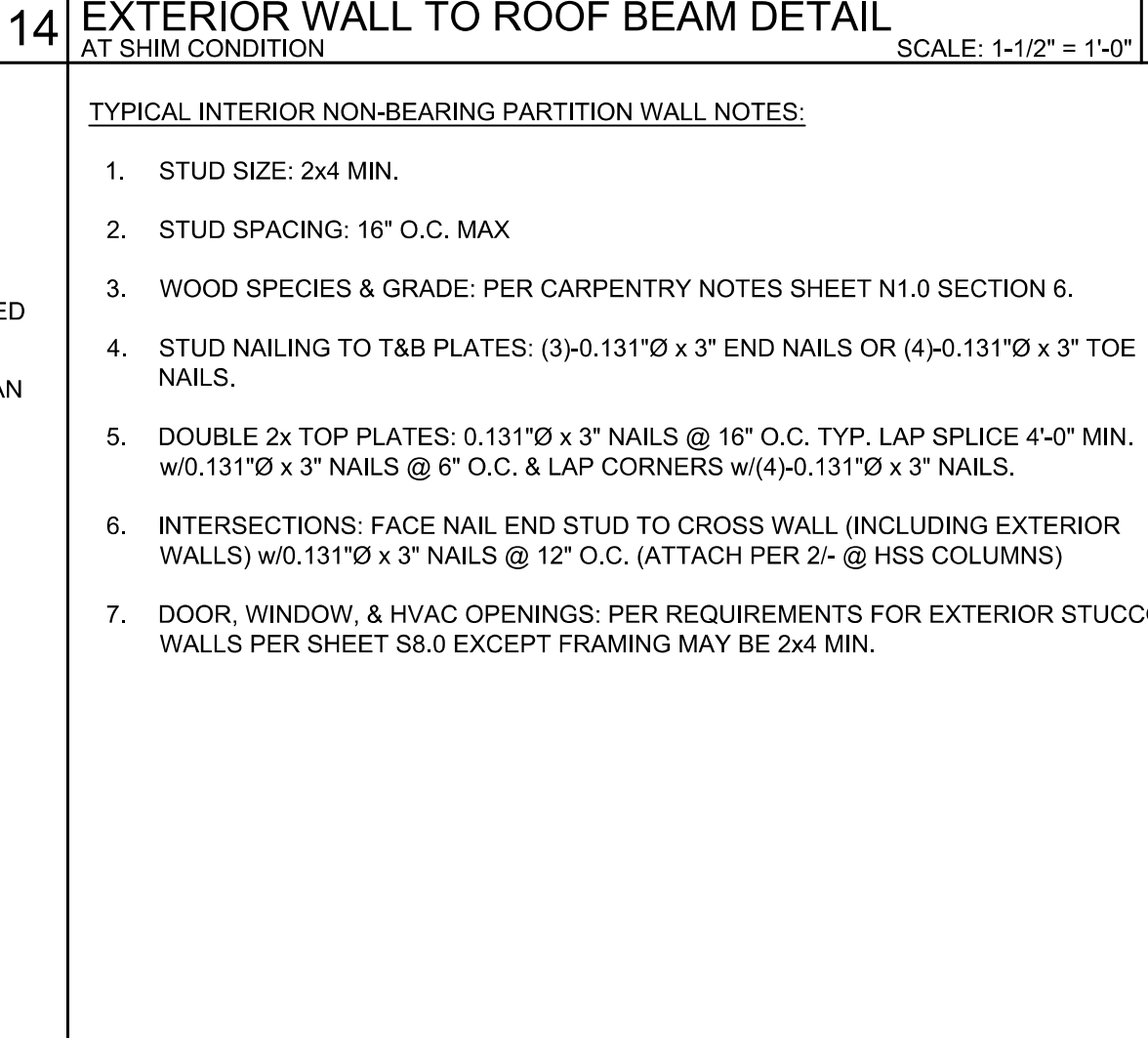
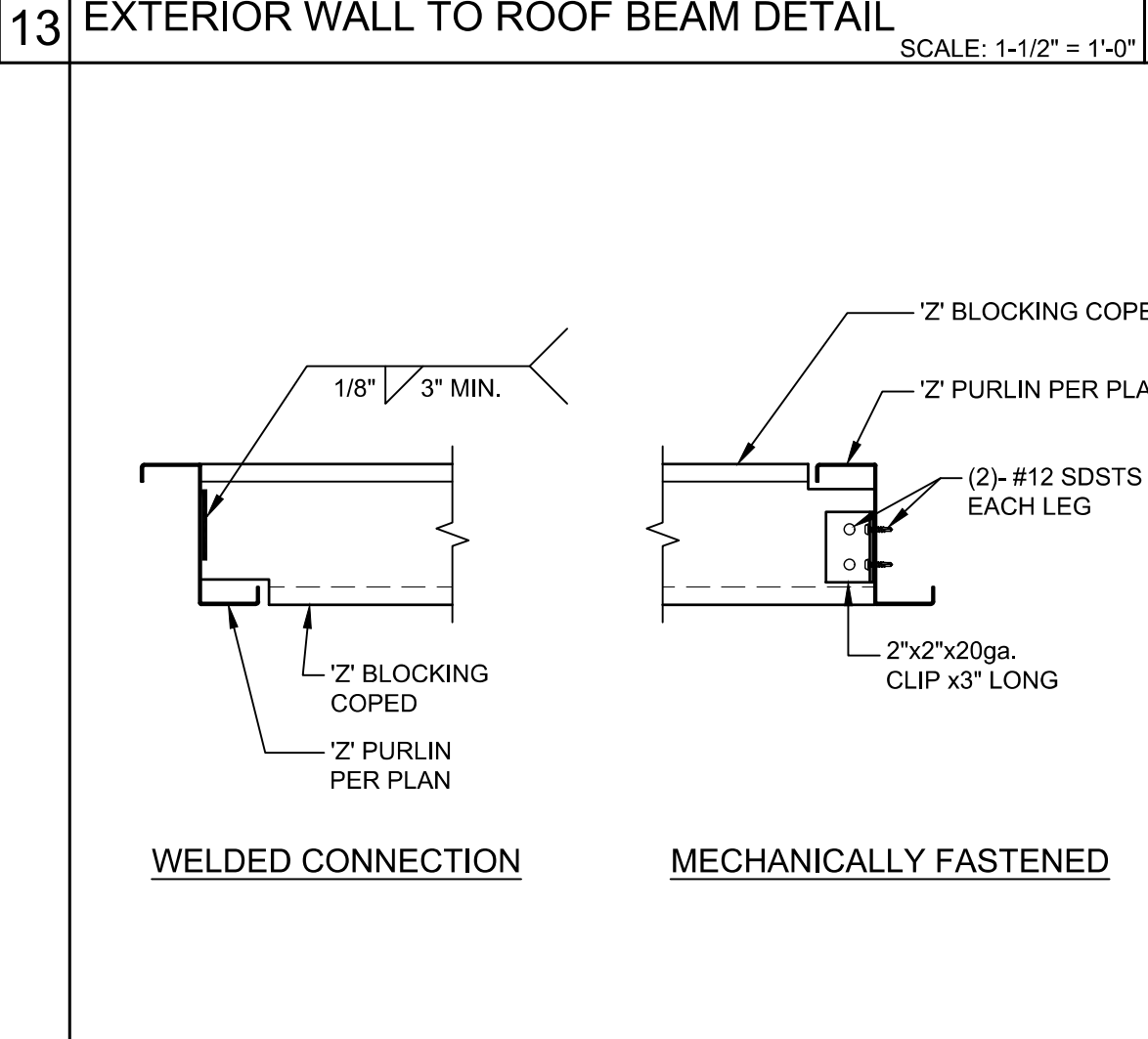
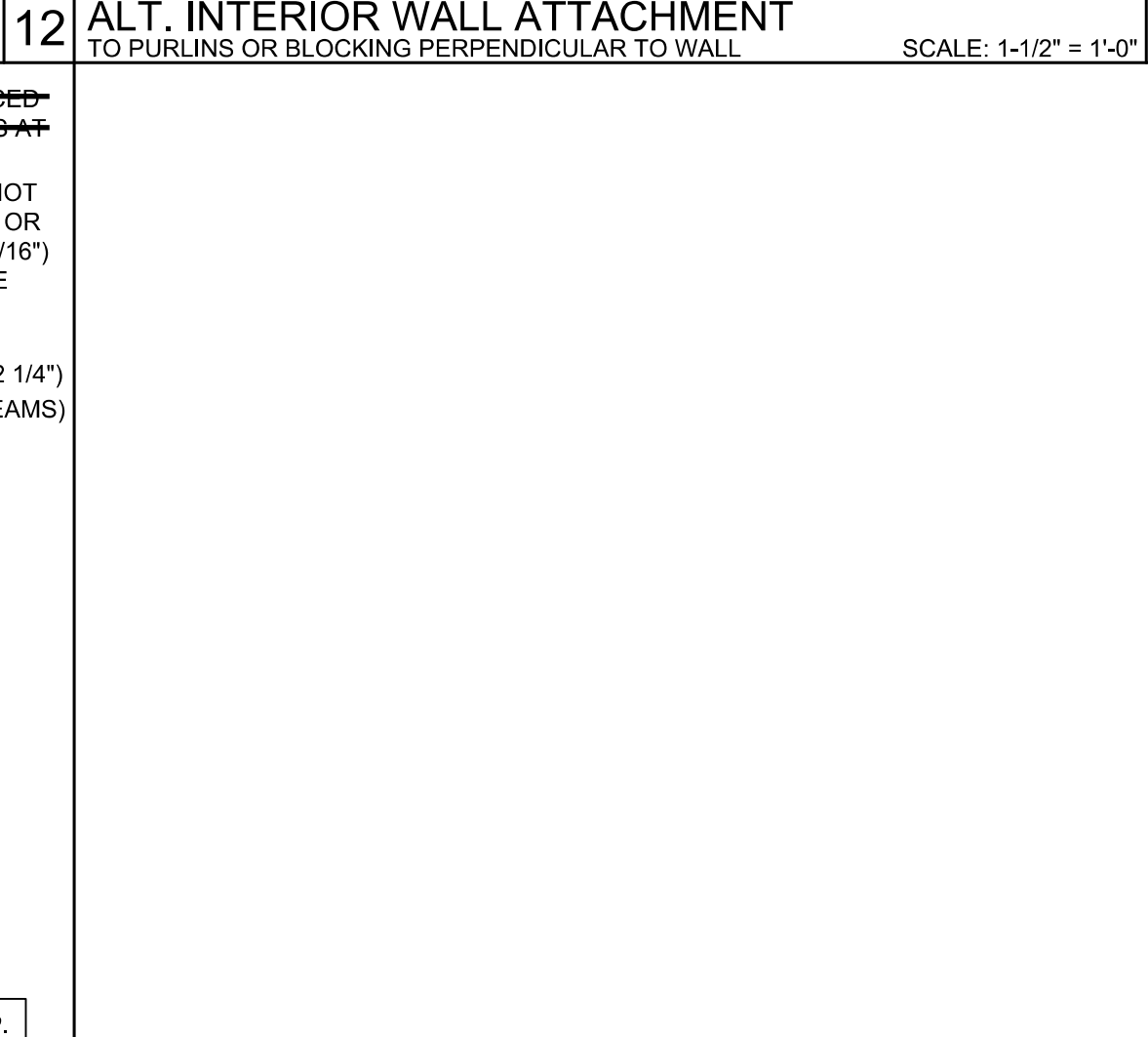
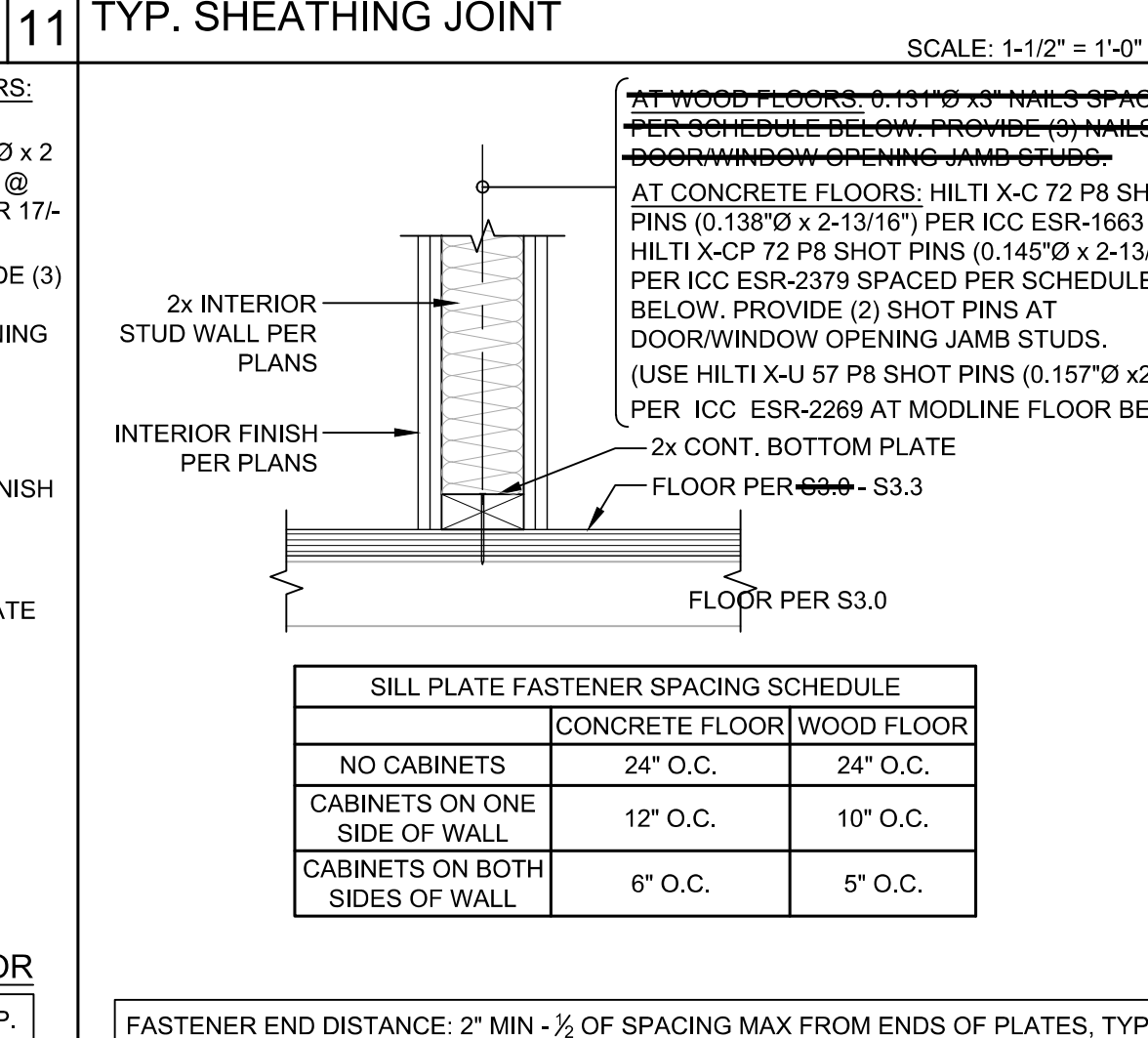
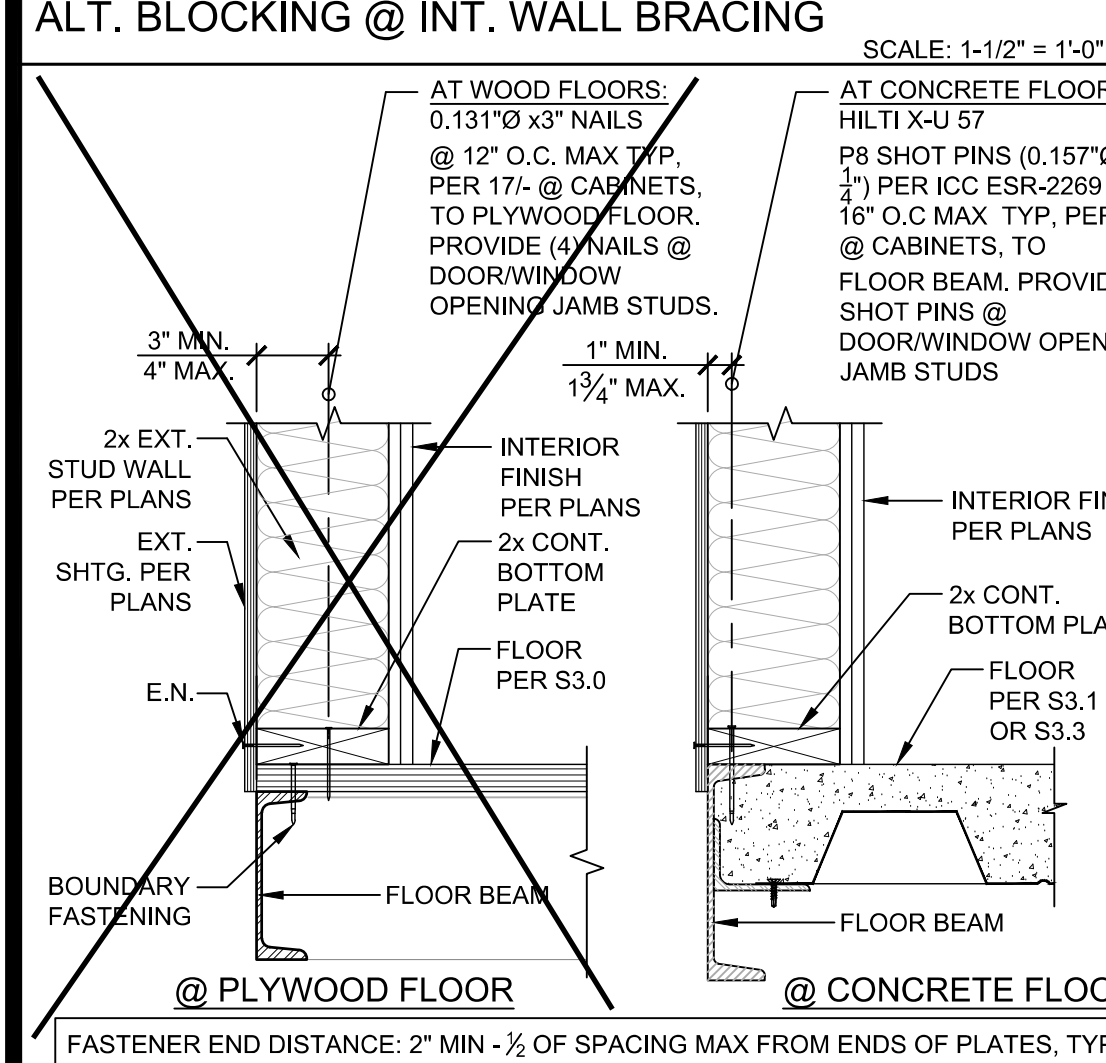
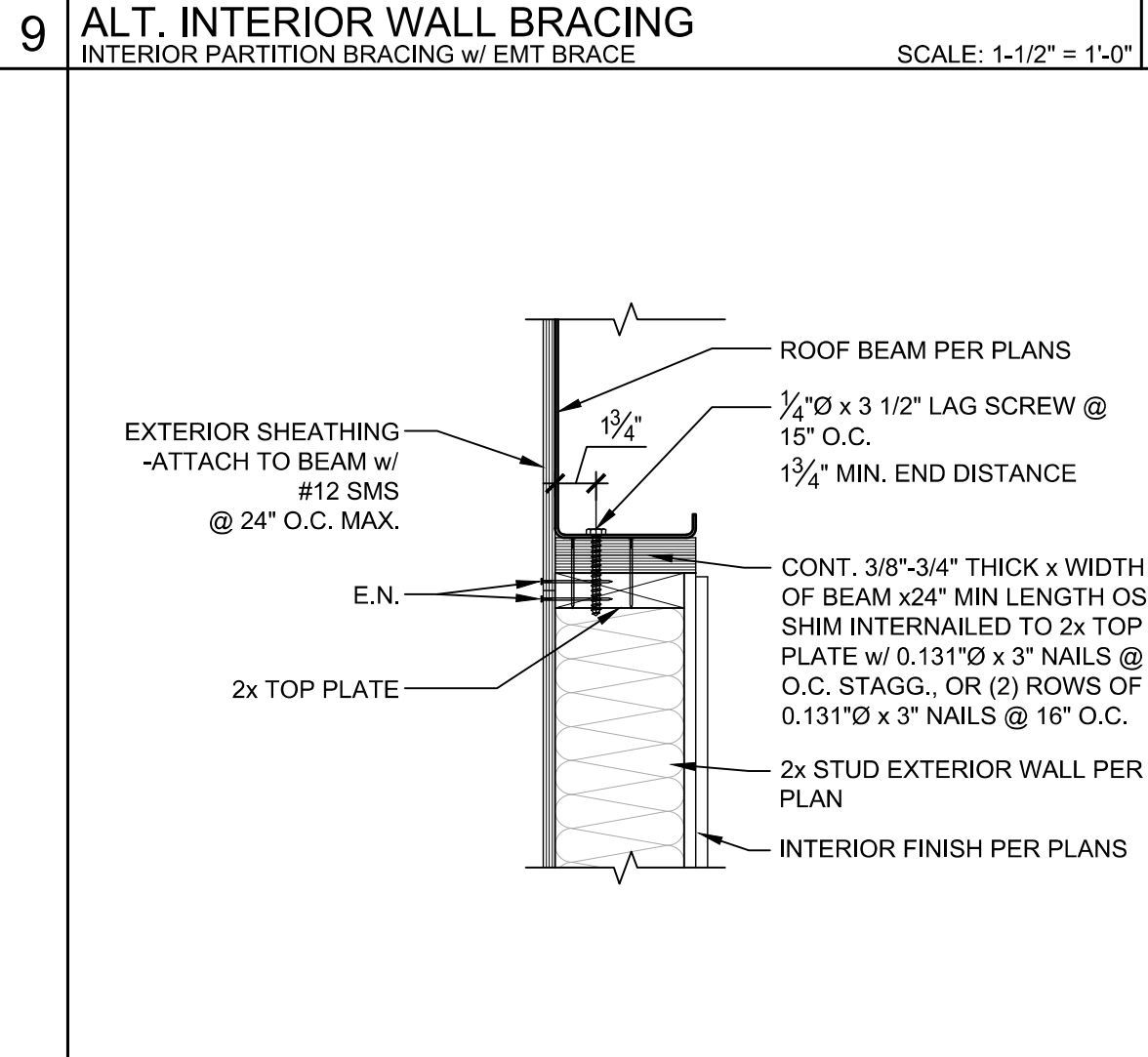
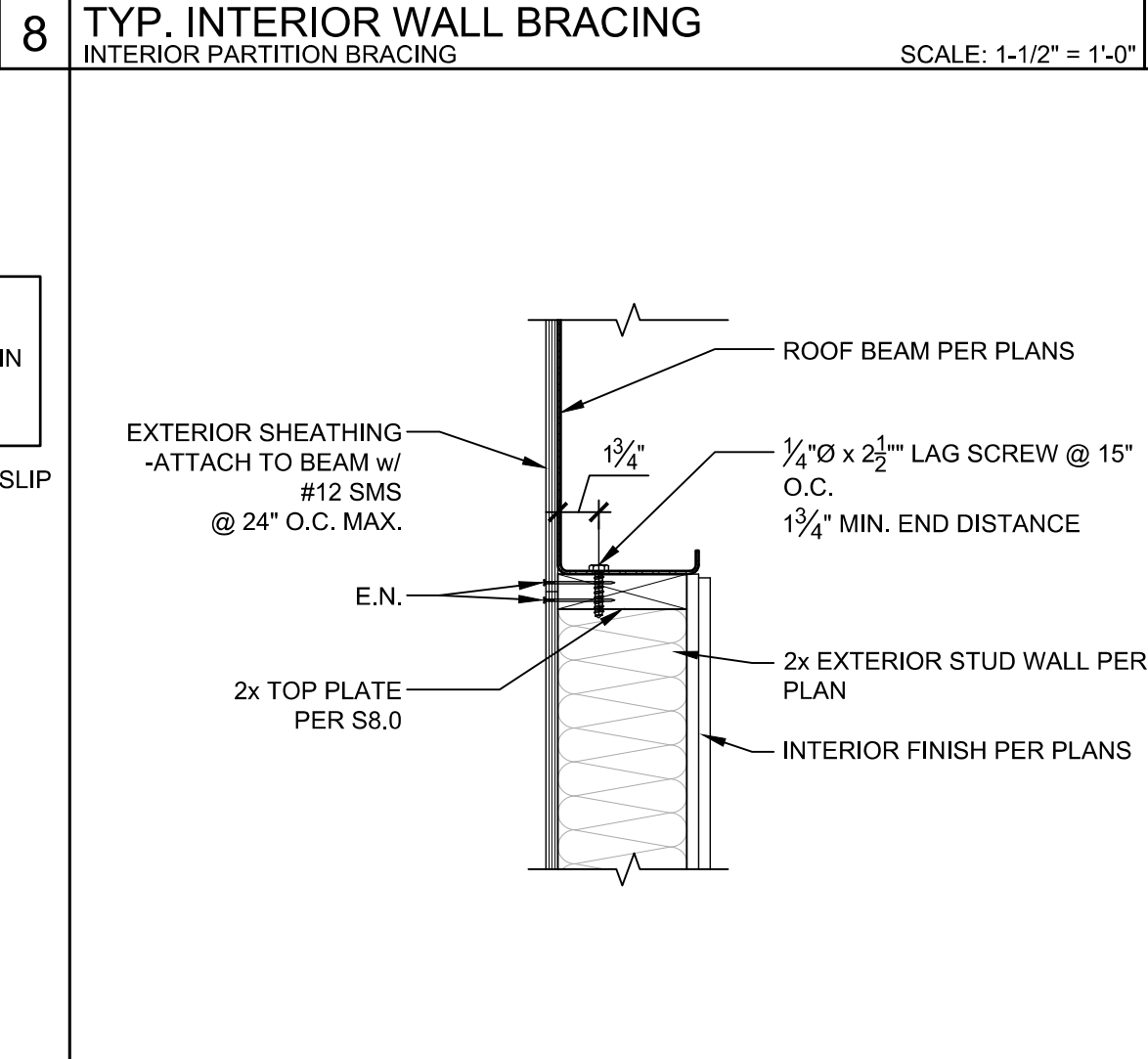
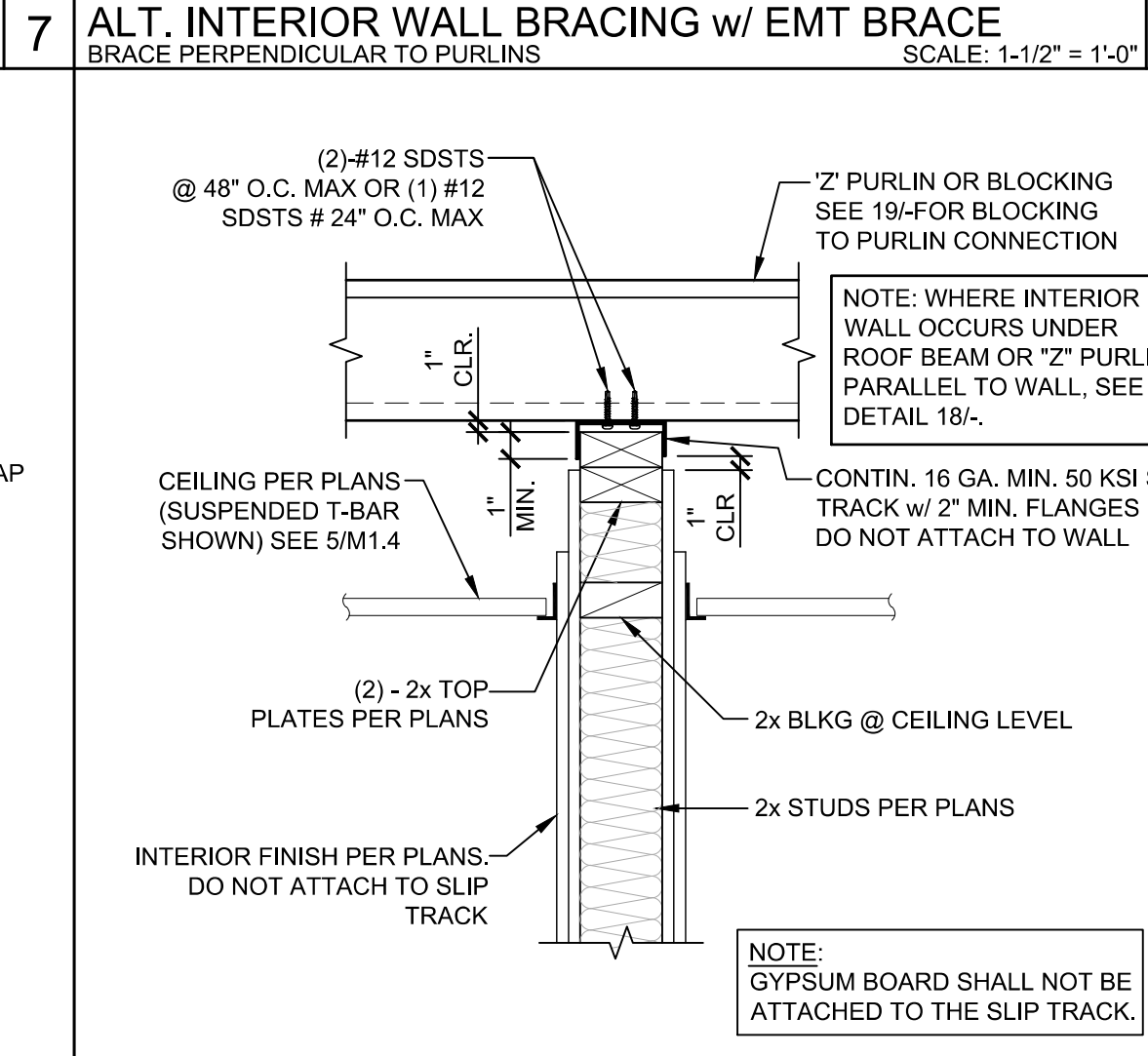
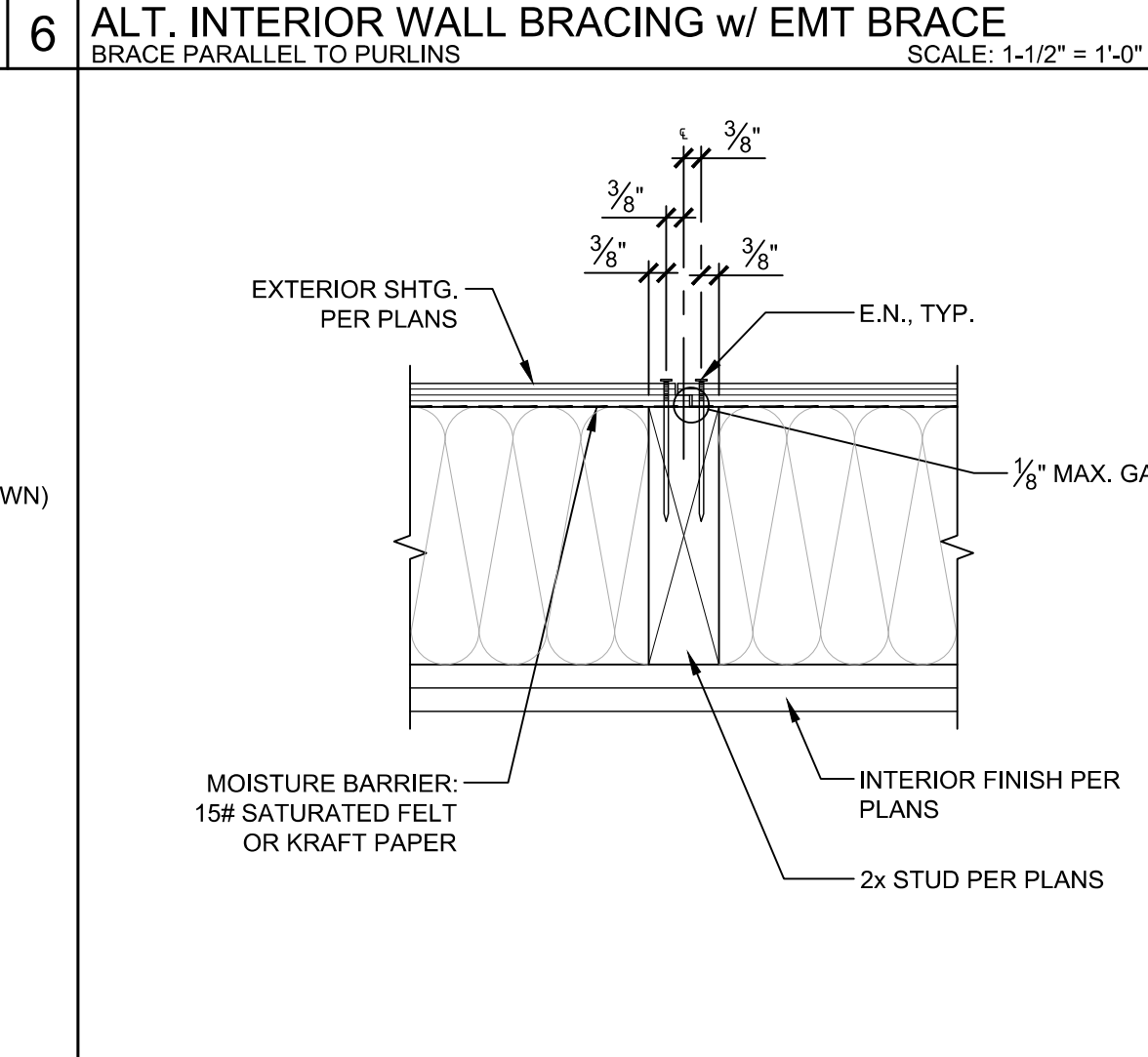
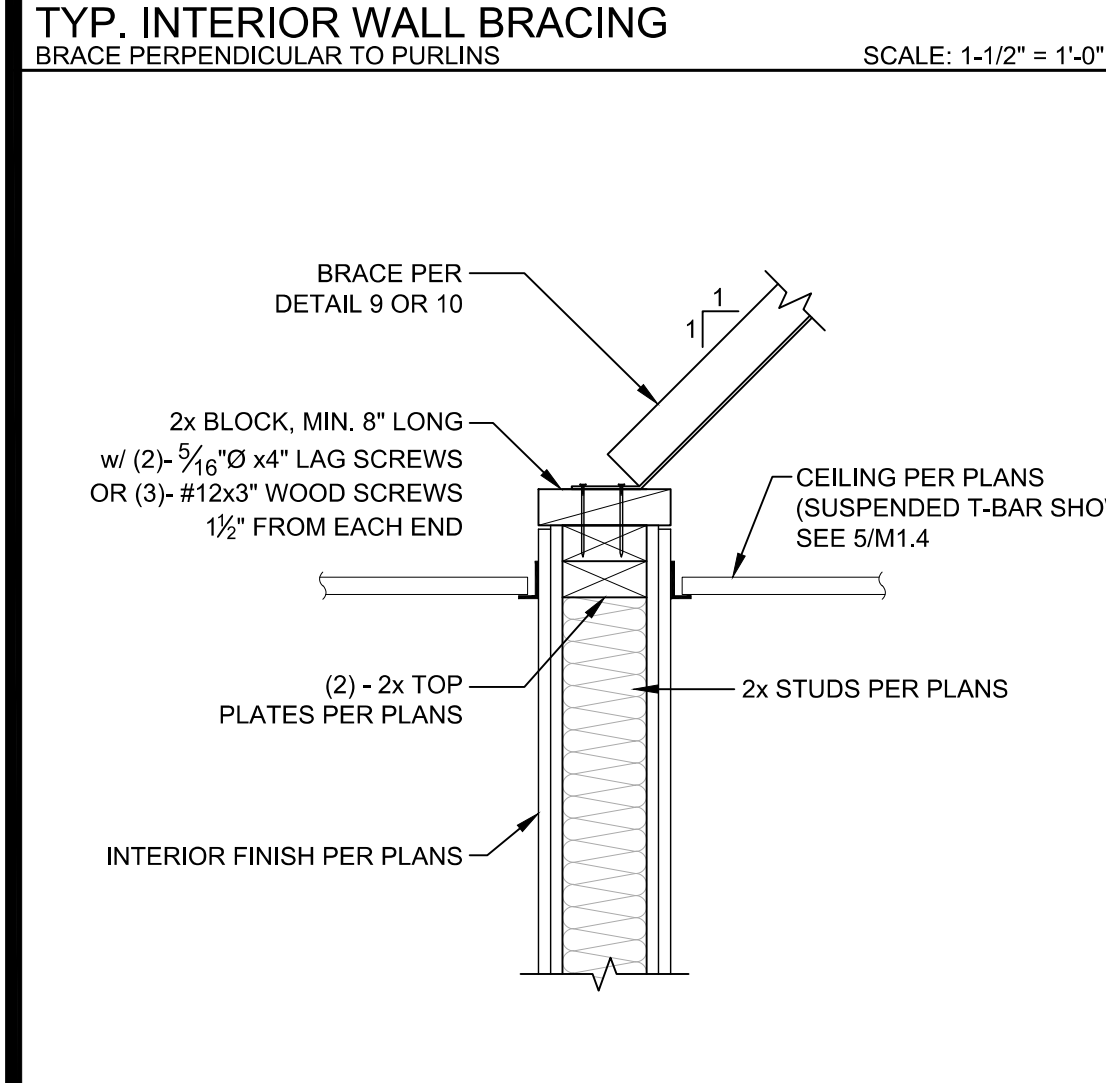
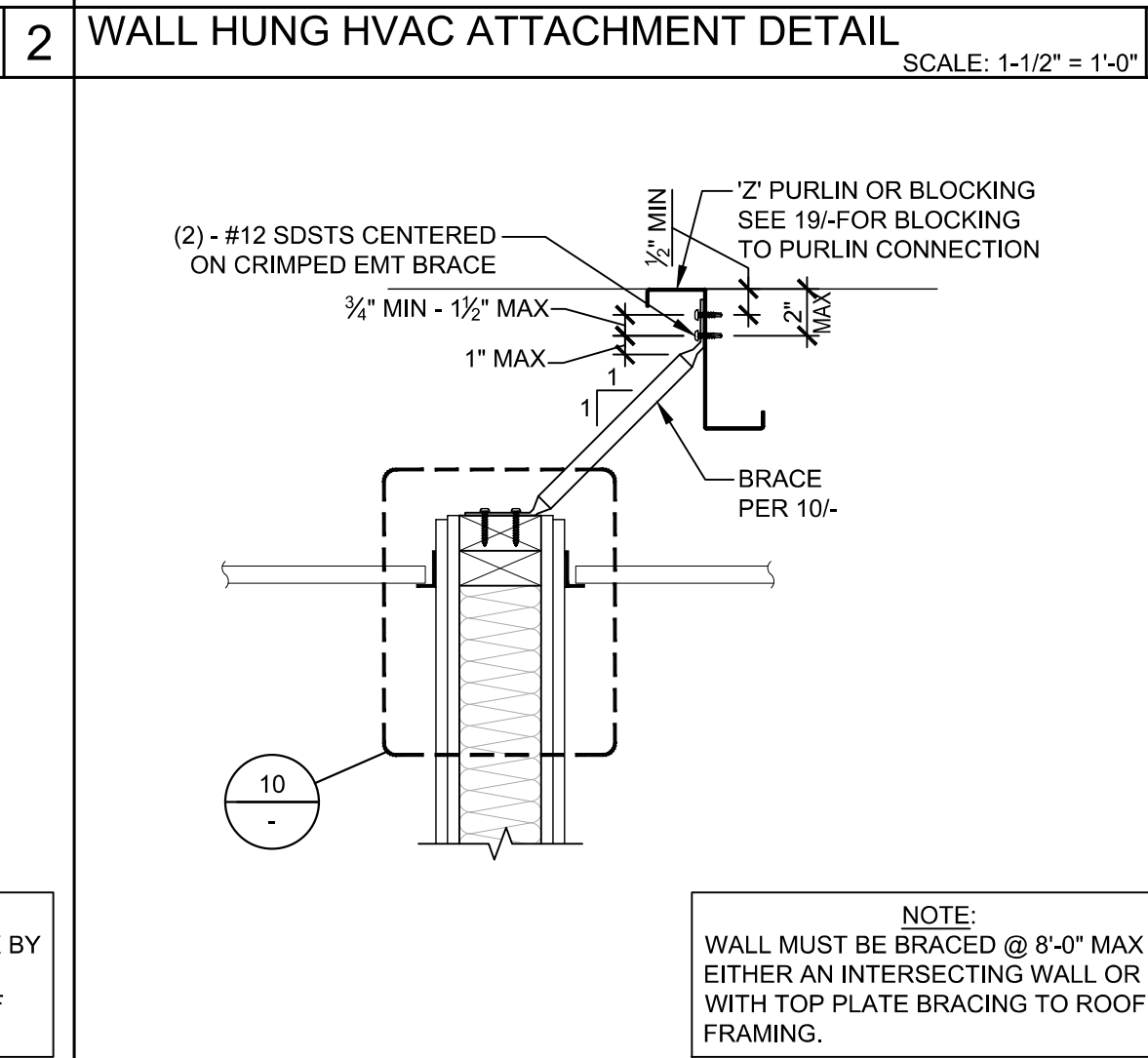
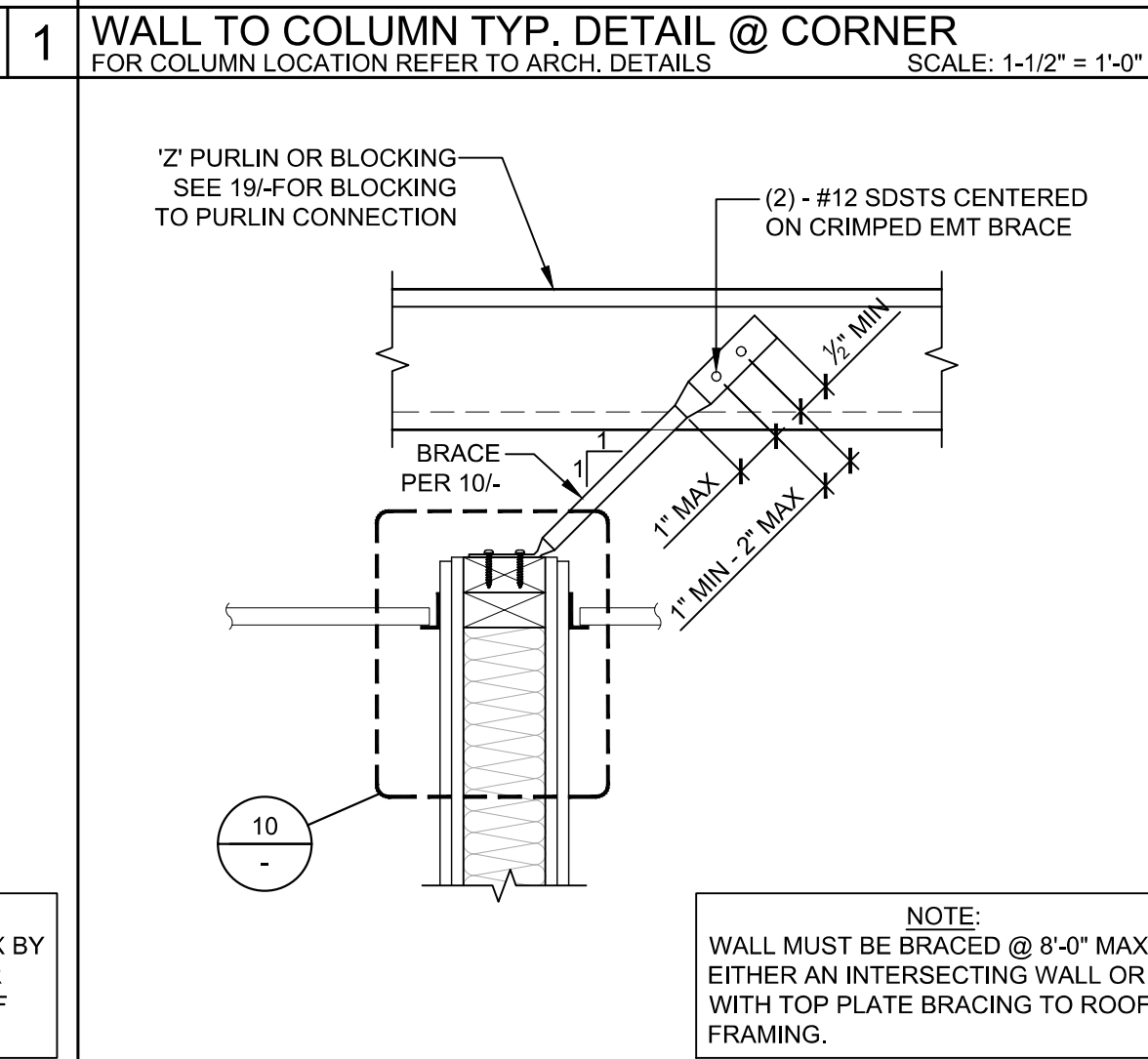
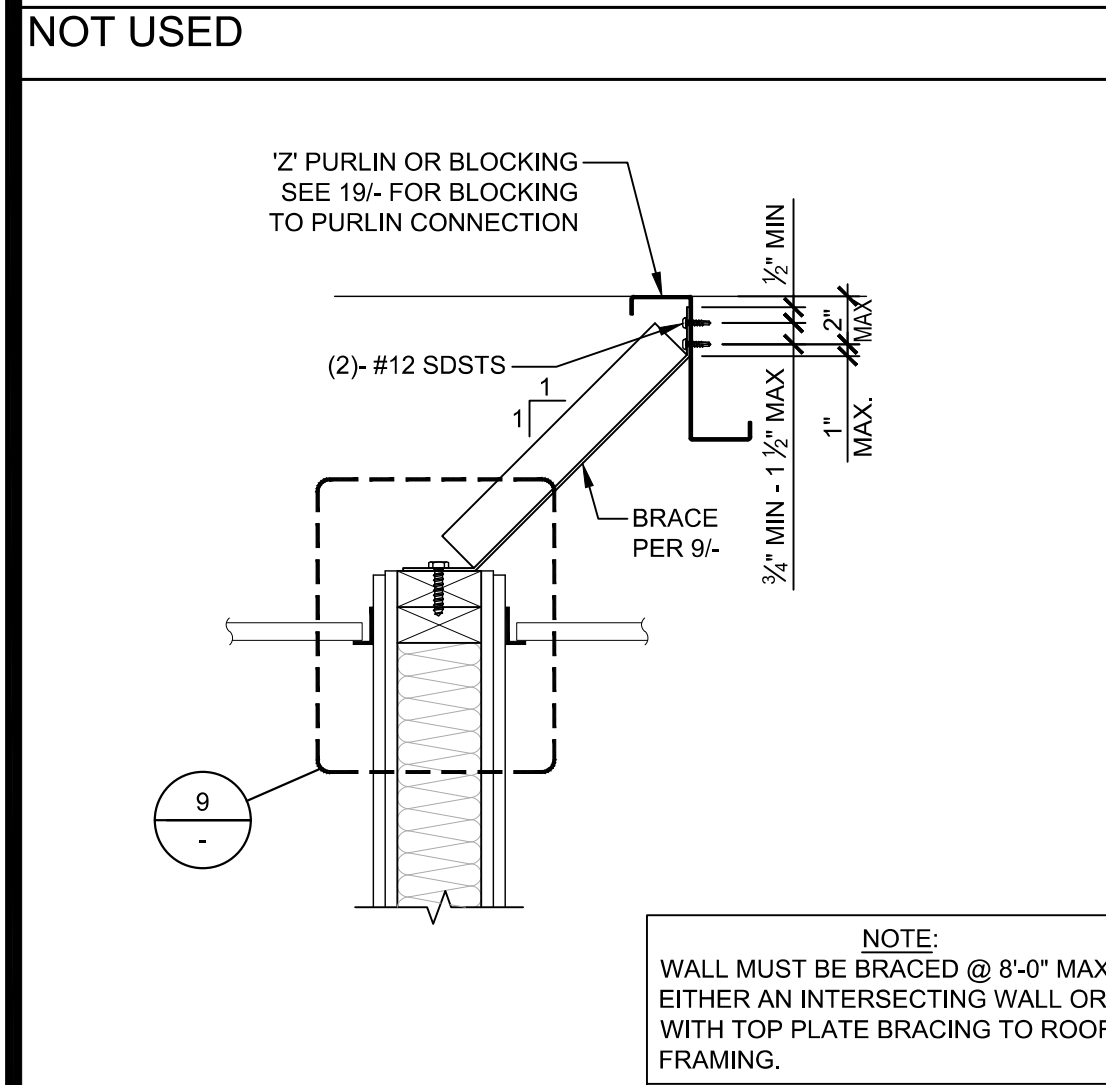
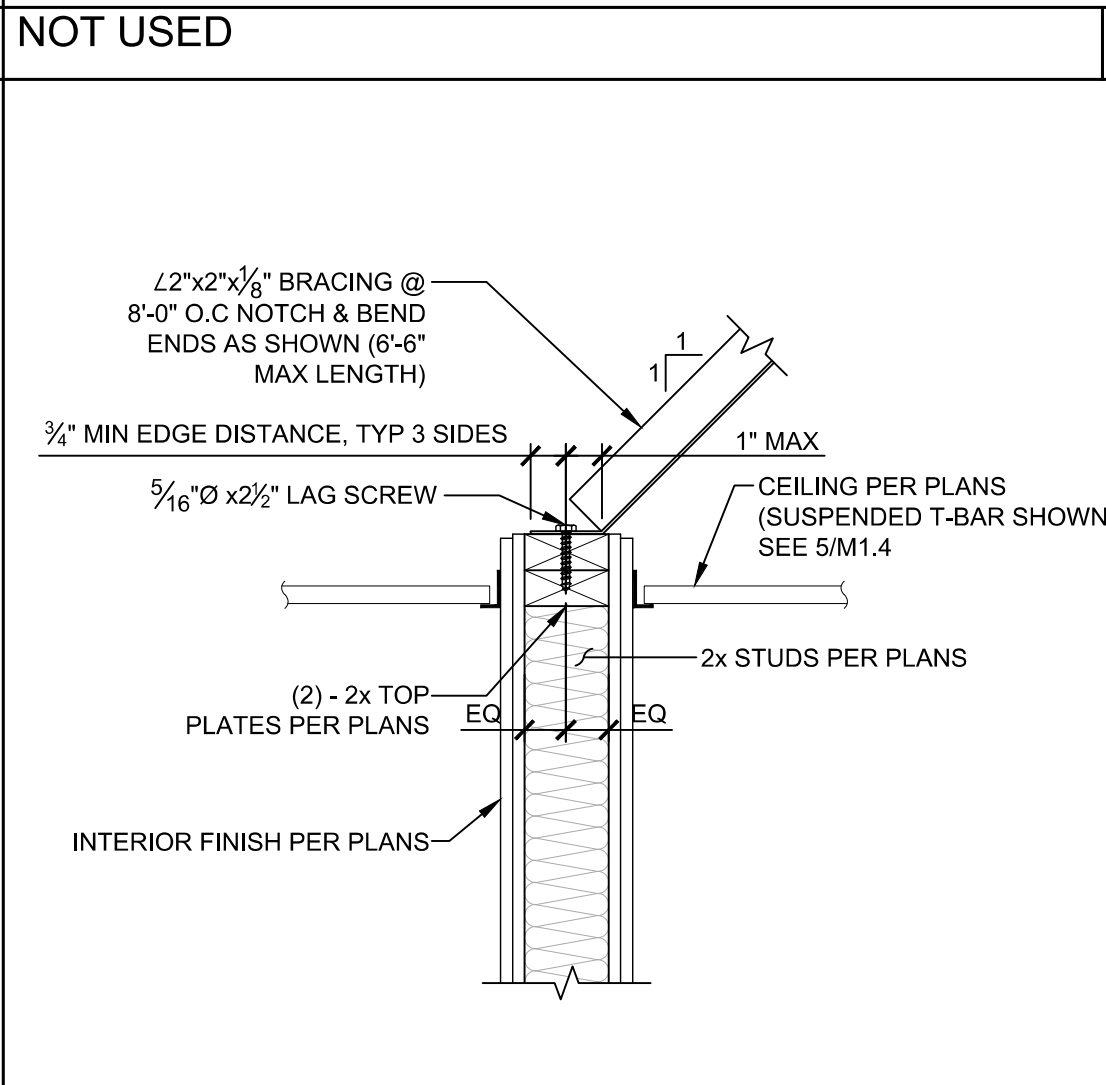
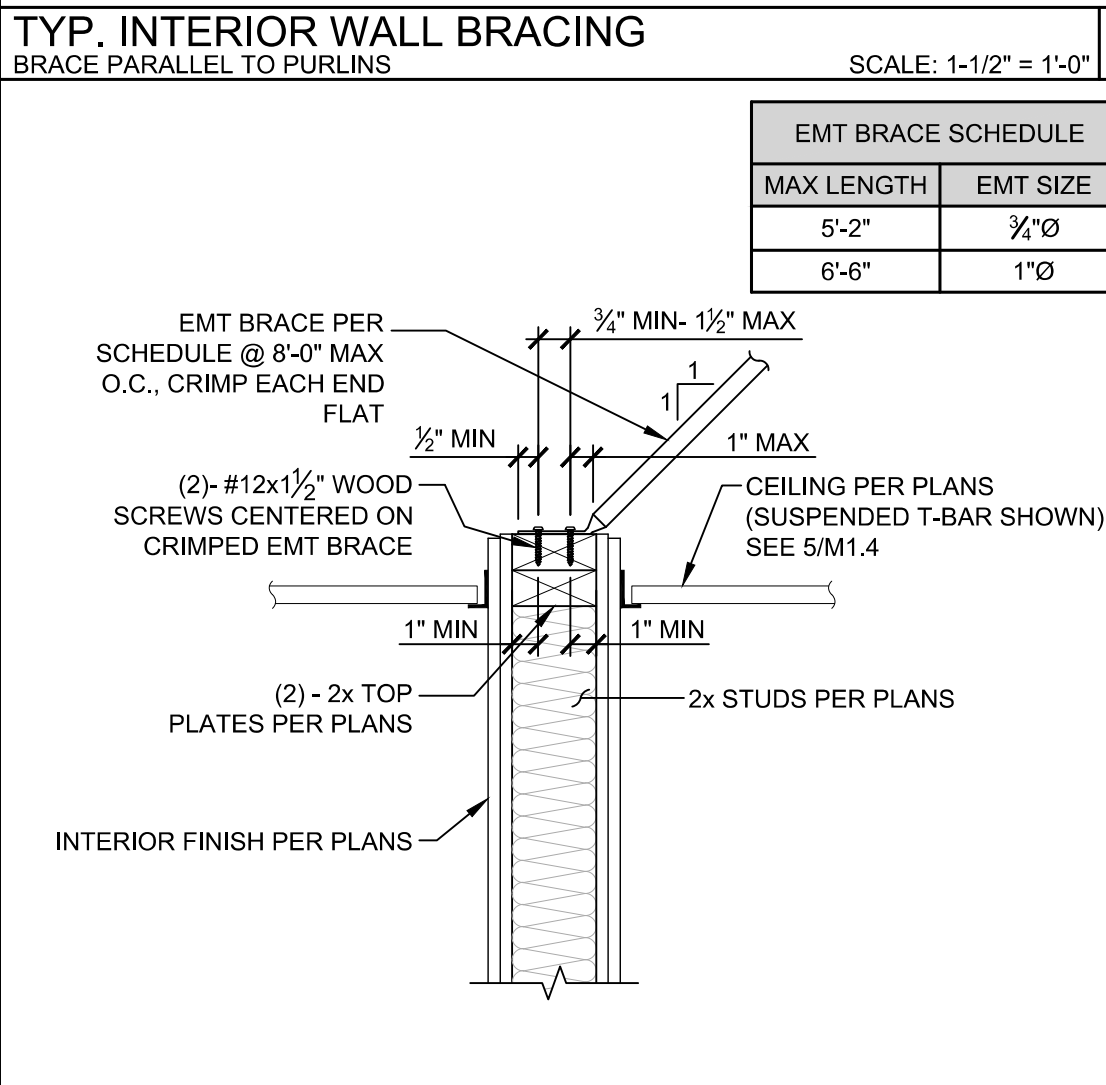
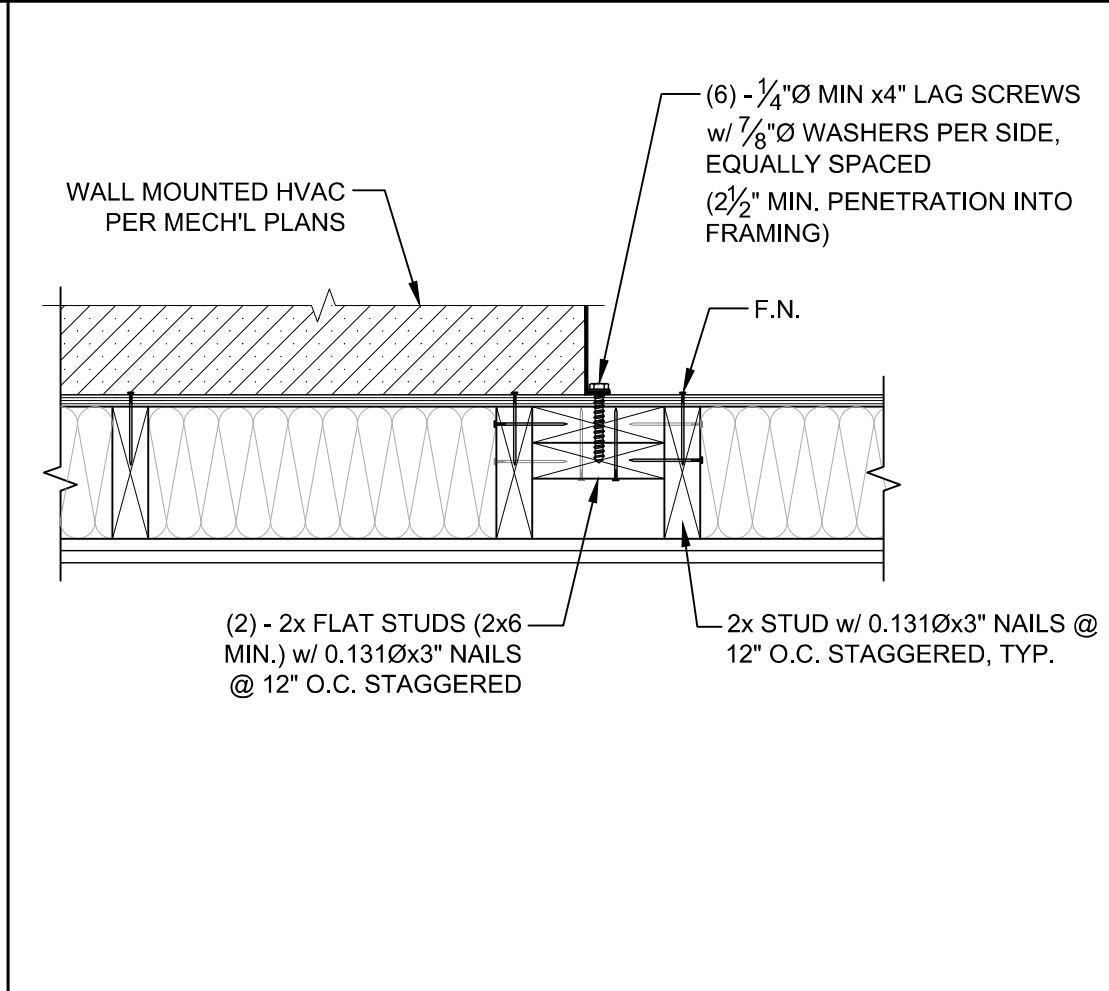
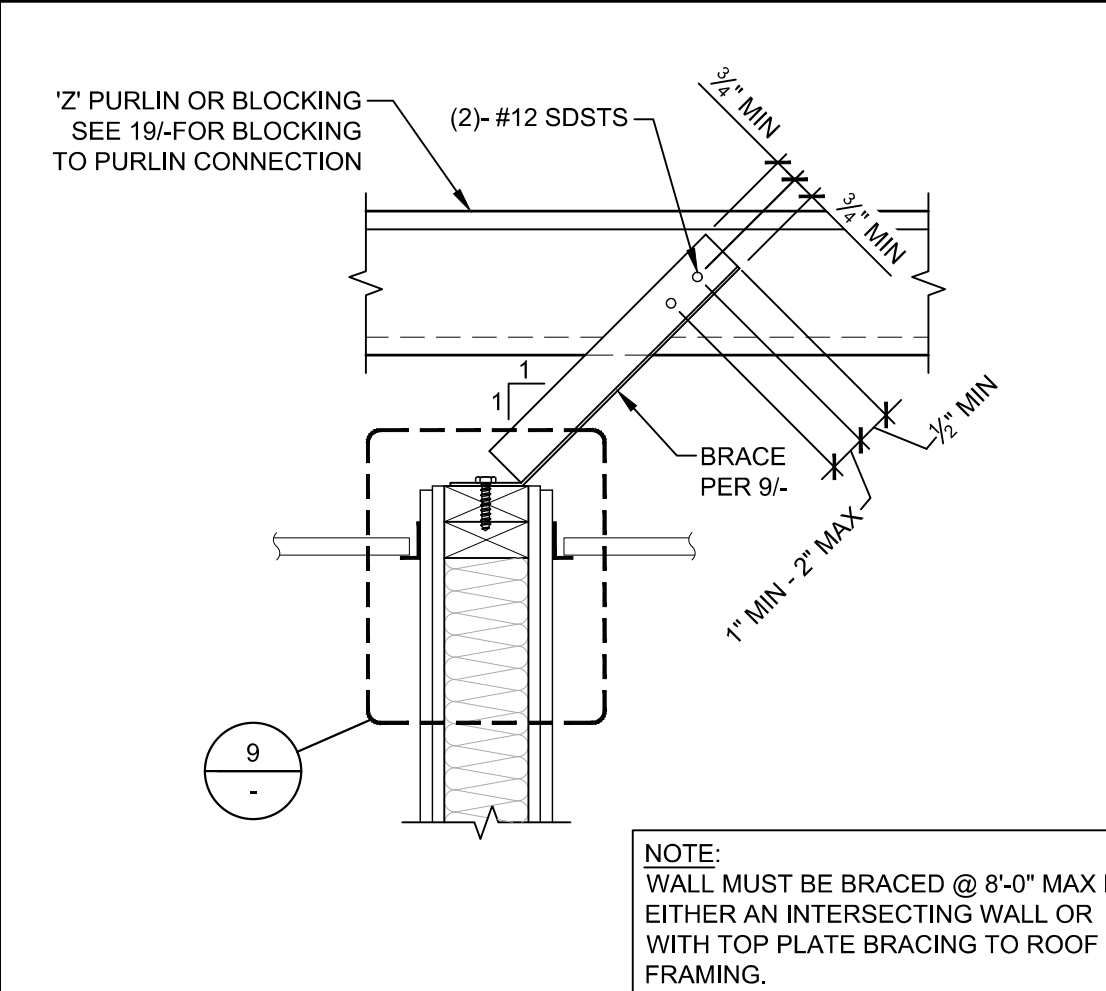
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REVISIONS

TYPICAL INTERIOR NON-BEARING PARTITION WALL NOTES:
 1. STUD SIZE: 2x4 MIN.
 2. STUD SPACING: 16" O.C. MAX
 3. WOOD SPECIES & GRADE: PER CARPENTRY NOTES SHEET N1.0 SECTION 6.
 4. STUD NAILING TO T&B PLATES: (3)-0.131"Ø x 3" END NAILS OR (4)-0.131"Ø x 3" TOE NAILS.
 5. DOUBLE 2x TOP PLATES: 0.131"Ø x 3" NAILS @ 16" O.C. TYP. LAP SPLICE 4'-0" MIN. w/0.131"Ø x 3" NAILS @ 6" O.C. & LAP CORNERS w/(4)-0.131"Ø x 3" NAILS.
 6. INTERSECTIONS: FACE NAIL END STUD TO CROSS WALL (INCLUDING EXTERIOR WALLS) w/0.131"Ø x 3" NAILS @ 12" O.C. (ATTACH PER 2'- @ HSS COLUMNS)
 7. DOOR, WINDOW, & HVAC OPENINGS: PER REQUIREMENTS FOR EXTERIOR STUCCO WALLS PER SHEET S8.0 EXCEPT FRAMING MAY BE 2x4 MIN.

DRAWN BY: AA
 SCALE: AS NOTED
 DATE: MM/DD/YYYY
 PROJECT NO: XXXX-20
 SHEET TITLE:
WALL FRAMING DETAILS - WOOD STUDS
 SHEET NUMBER:

S8.1



TYP. EXTERIOR WALL TO FLOOR DETAIL SCALE: 1-1/2" = 1'-0"

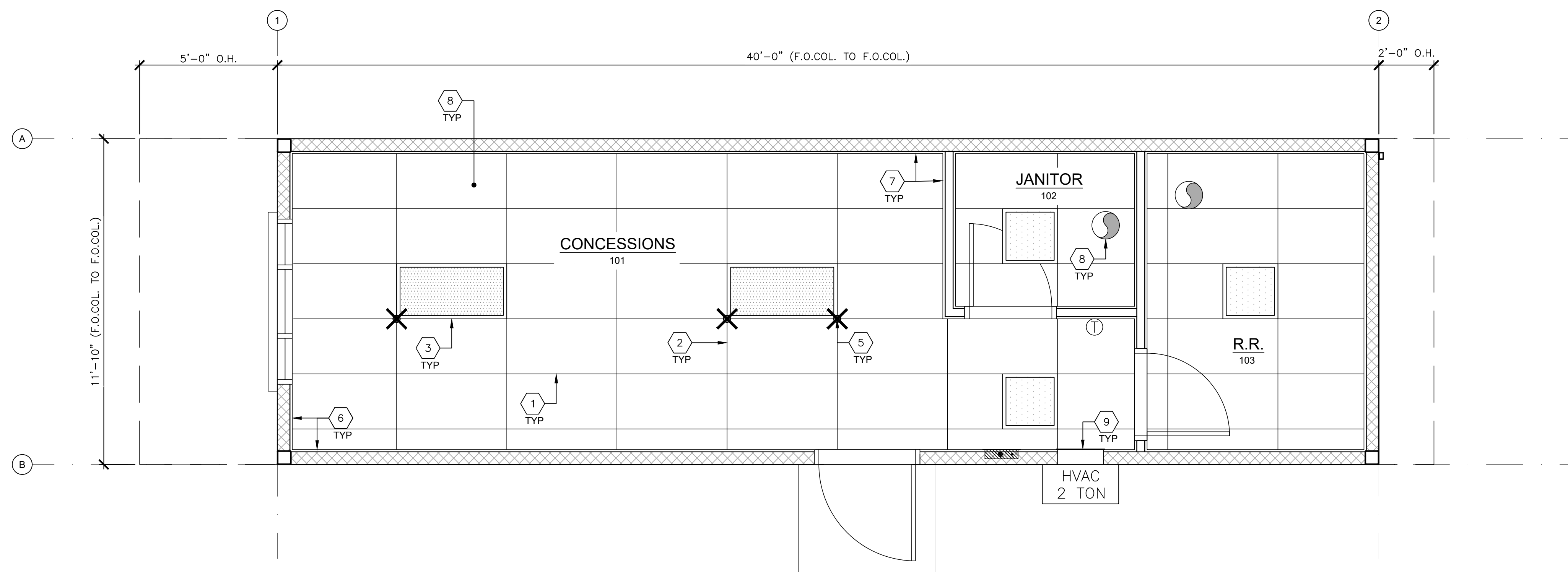
TYP. INTERIOR NON-BEARING WALL ATTACHMENT SCALE: 1-1/2" = 1'-0"

NOT USED

ALT. INTERIOR WALL ATTACHMENT AT ROOF BEAM

PURLIN BLOCKING CONNECTIONS

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



- ① MAIN TEE RUNNER TYP. PER TABLE A, SHEET M1.7
- ② CROSS TEE RUNNER TYP. PER TABLE A, SHEET M1.7
- ③ INTERIOR LIGHT FIXTURE, REFER TO SHEET E1.0 FOR SPEC'S ATTACHMENT PER DETAIL 7/M1.4
- ④ CEILING HEIGHT @ 9'-0", SEE SCHEDULE
- ⑤ STRUT/PLAY WIRE ASSEMBLY, SEE 2/M1.4 FOR DETAILS
- ⑥ FIXED CEILING END, SEE DETAIL 5A/M1.4
- ⑦ FREE CEILING END, SEE DETAIL 5B/M1.4
- ⑧ EXHAUST FAN - SEE SCHEDULE BELOW
- ⑨ AIR SUPPLY GRILLE - SEE SHEET M1.1
- ⑩ OPTIONAL SOLA-TUBE - SEE DETAIL 1/M1.6

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APP: 02-120247 INC:
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DATE: 06/24/2022

AMS
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME
**CORCORAN JOINT USD
KINGS LAKE EDUCATION CENTER
(1) 12'x40' BUILDING**

KEY NOTES

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.
MANUFACTURER PROFESSIONAL OF RECORD ON PC



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REVISIONS

DRAWN BY: ABD
SCALE: AS NOTED
DATE: 04/25/21
PROJECT NO: 1663-21

SHEET TITLE:
TYPICAL REFLECTED CEILING PLANS

SHEET NUMBER:

M1.0

MARK	DESCRIPTION	CFM	WATTS	S.P.	VOLT/PH	
EF 1	EXHAUST FAN	110	47.3	.10"	120-1Ø	NUTONE AN110 CEILING MOUNTED 180W INPUT 10 LBS (OR EQUAL)
EF 2	EXHAUST FAN	210	127	.125"	120-1Ø	BROAN L200 CEILING MOUNTED 180W INPUT 23 LBS (OR EQUAL)
EF 3	EXHAUST FAN	308	212	.125"	120-1Ø	BROAN L300 CEILING MOUNTED 180W INPUT 23 LBS (OR EQUAL)

- NOTES:
1. VENT EXHAUST FAN THROUGH ROOF.
 2. FANS MUST WEIGH LESS THAN 75 LBS.
 3. LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID LAYOUT.

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 KINGS LAKE EDUCATION CENTER
 (1) 12'x40' BUILDING**

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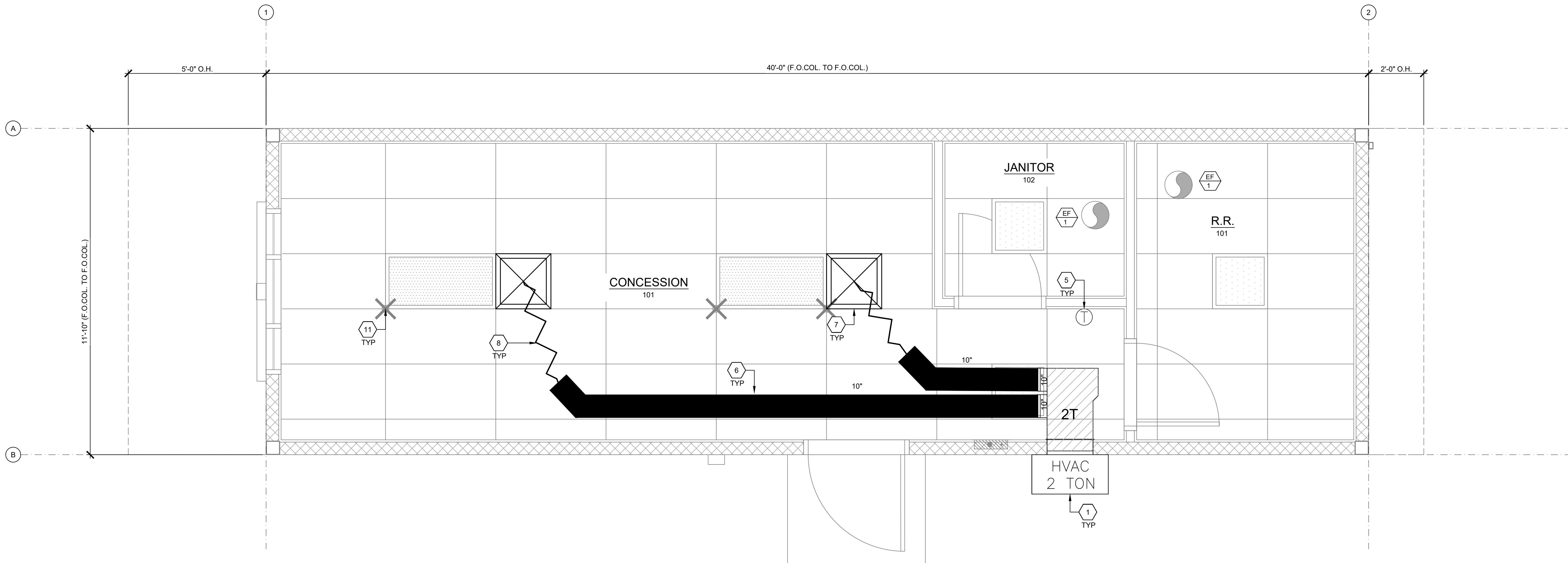
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REVISIONS

DRAWN BY: ABD
 SCALE: AS NOTED
 DATE: 04/25/21
 PROJECT NO: 1663-21

SHEET TITLE:
TYPICAL MECHANICAL PLAN

SHEET NUMBER:
M1.1



WALL HUNG MECHANICAL PLAN

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

NOT USED 5

MARK	DESCRIPTION	CFM	WATTS	S.P.	VOLT/PH	NOTES
EF 1	EXHAUST FAN	110	47.3	.10"	120-1Ø	NUTONE AN110 CEILING MOUNTED 180W INPUT 10 LBS (OR EQUAL)
EF 2	EXHAUST FAN	210	127	.125"	120-1Ø	BROAN L200 CEILING MOUNTED 180W INPUT 23 LBS (OR EQUAL)
EF 3	EXHAUST FAN	308	212	.125"	120-1Ø	BROAN L300 CEILING MOUNTED 180W INPUT 23 LBS (OR EQUAL)

NOTES:
 1. VENT EXHAUST FAN THROUGH ROOF.
 2. FANS MUST WEIGH LESS THAN 75 LBS.
 3. LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID LAYOUT.

EXHAUST FAN SCHEDULE

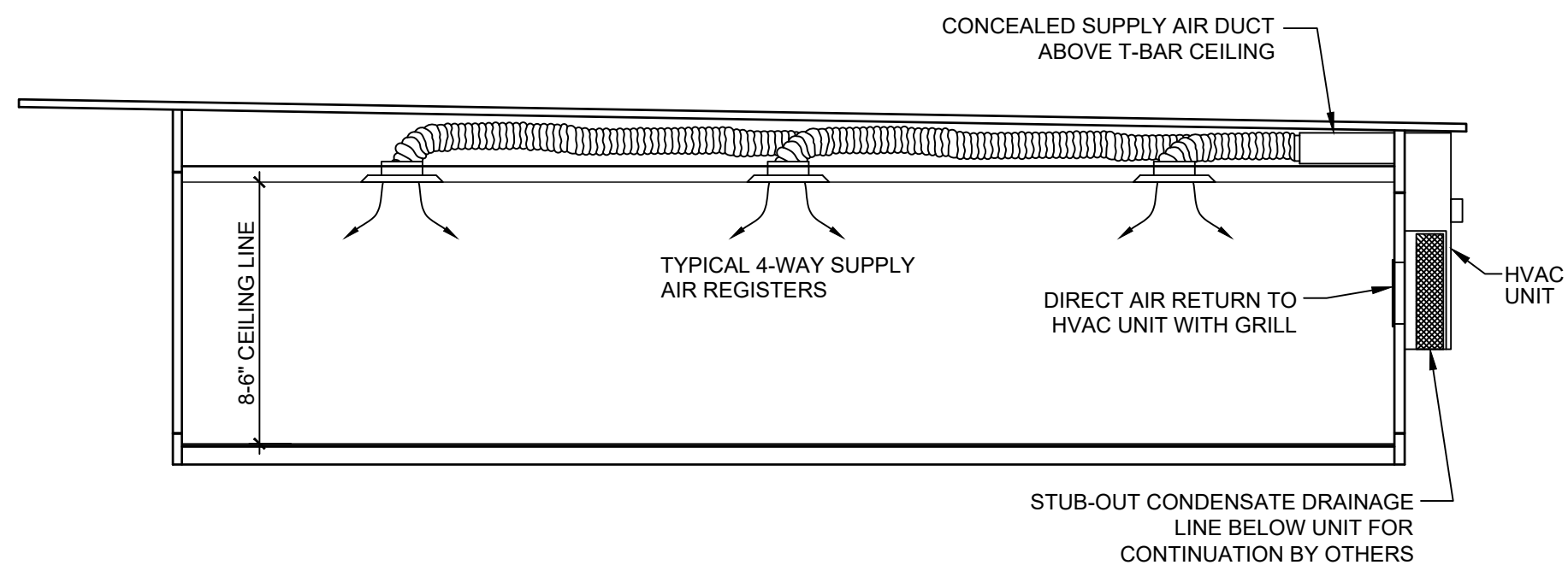
- WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTOMATIC SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
- AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES WITHIN THE BUILDING SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF.
- AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE A DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. (PER C.M.C. 608.1 EXCEPTION #2.)
- LIGHTING FIXTURE MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
- FOR T-BAR CEILING SPECIFICATIONS, SEE M1.7.

SHEET NOTES

- WALL HUNG HVAC UNIT - SEE 10/M1.4.
- NOT USED
- CONDENSER - GROUND MOUNT BY OTHERS.
- 3A AIR HANDLER UNIT (IN ROOM) - SEE 3/M1.5.
- 3B AIR HANDLER UNIT (ABOVE CEILING) - SEE DETAIL 3/M1.5. INSTALL FRESH AIR INTAKE THRU ROOF - INTAKE, PENETRATION PER 2/M1.6 SIM.
- INTERIOR HVAC SYSTEM - SEE 9/M1.4.
- THERMOSTAT - 48" A.F.F. MAX TO TOP OF BOX
- CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING - SEE 1/M1.4.
- TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE - SEE 7/M1.5.
- FLEX DUCT - NOMINAL 10" MIN. (MAY VARY) - SEE 8/M1.5.
- RETURN AIR AS PART OF UNIT.
- RETURN AIR REGISTER - SEE 7/M1.5.
- STRUT/SPLAY WIRE ASSEMBLY, SEE 5/M1.4 FOR DETAILS
- HVAC EXTERIOR AIR VENT (SPLIT SYSTEM EXTERIOR AIR VENT FRAMED SEPARATELY FROM DOOR)

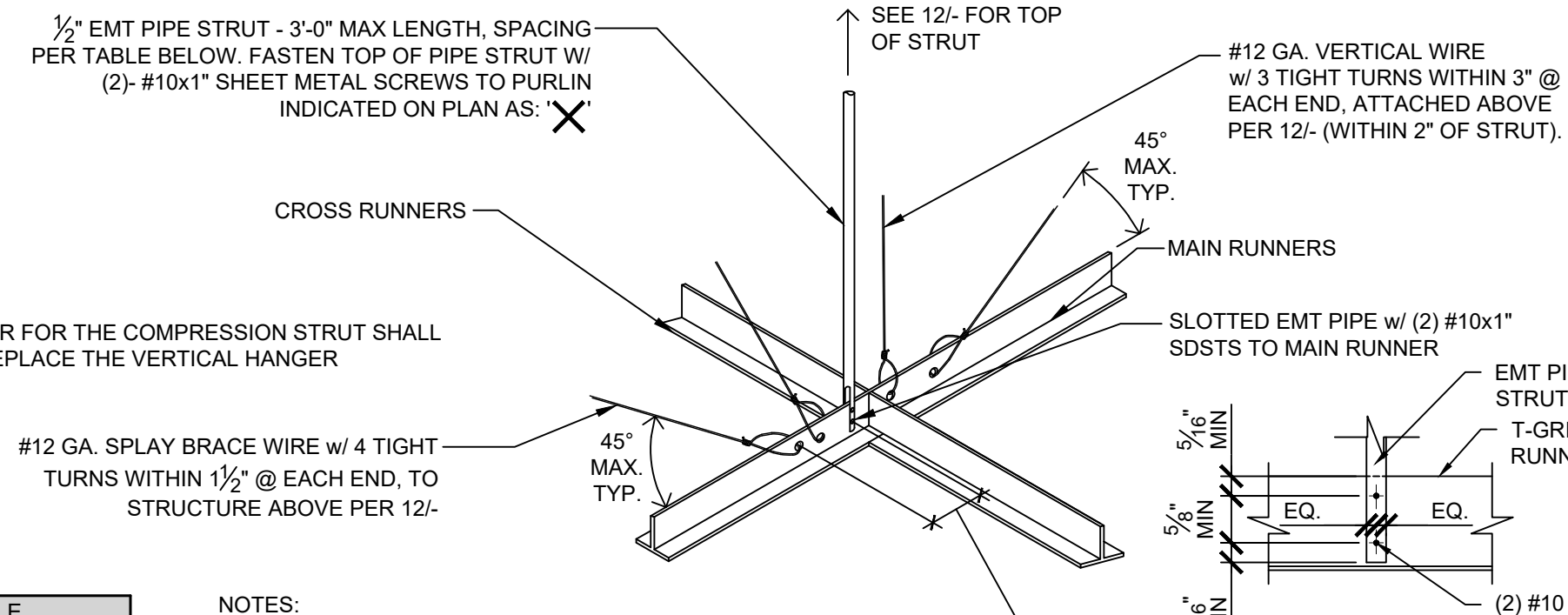
NOTE: FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4 AND CMC 603.4.1

KEY NOTES



TYPICAL MECHANICAL SECTION

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

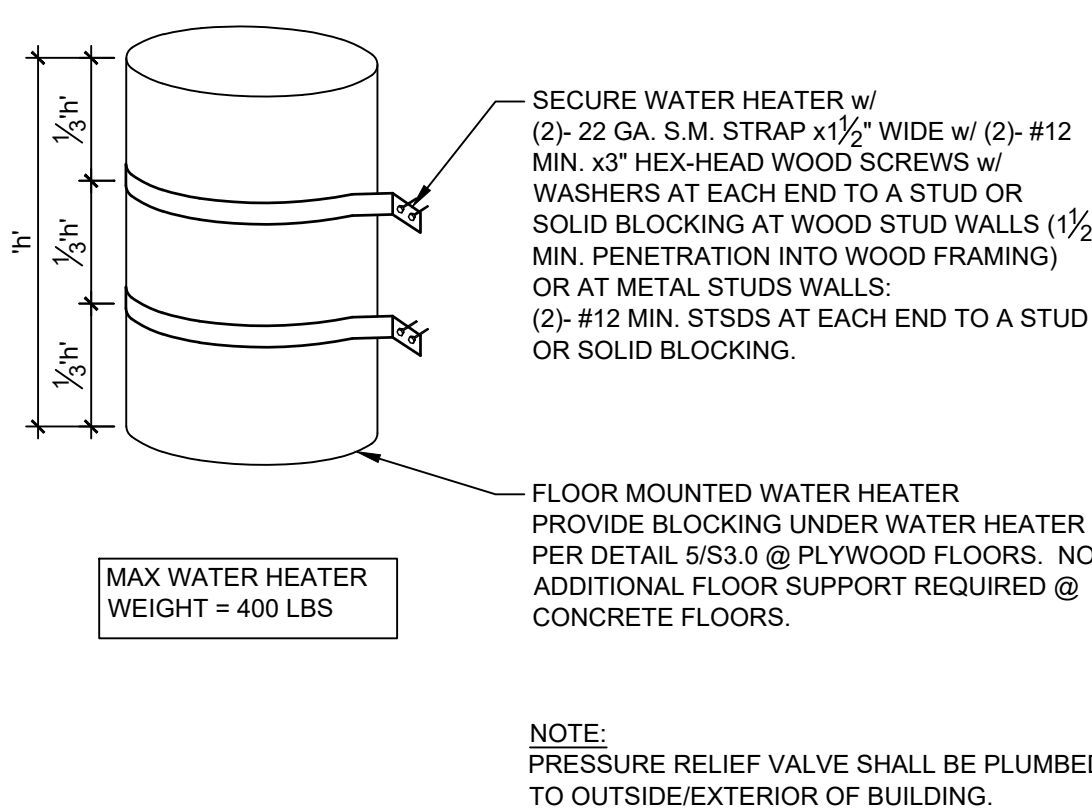


BRACING SCHEDULE	
SITE SPECIFIC S_{DS} (PER SHEET 13)	MAX. SPACING
<input checked="" type="checkbox"/> $S_{DS} \leq 1.15$	12x12'
<input type="checkbox"/> $1.15 < S_{DS} \leq 1.73$	8x12'
<input type="checkbox"/> $S_{DS} > 1.73$	8'x8'

- NOTES:
- MAXIMUM BRACE SPACING SHALL BE PER ADJACENT SCHEDULE.
 - THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSET. FOR EXAMPLE, WHERE THE BRACE SPACING IS 8x12', THE DISTANCE SHALL BE 4 FEET IN THE DIRECTION OF THE 8 FOOT SPACING AND 6 FEET IN THE DIRECTION OF THE 12 FOOT SPACING. FOR FURTHER INFORMATION REFER TO SPECIFICATIONS ON SHEET M1.7.

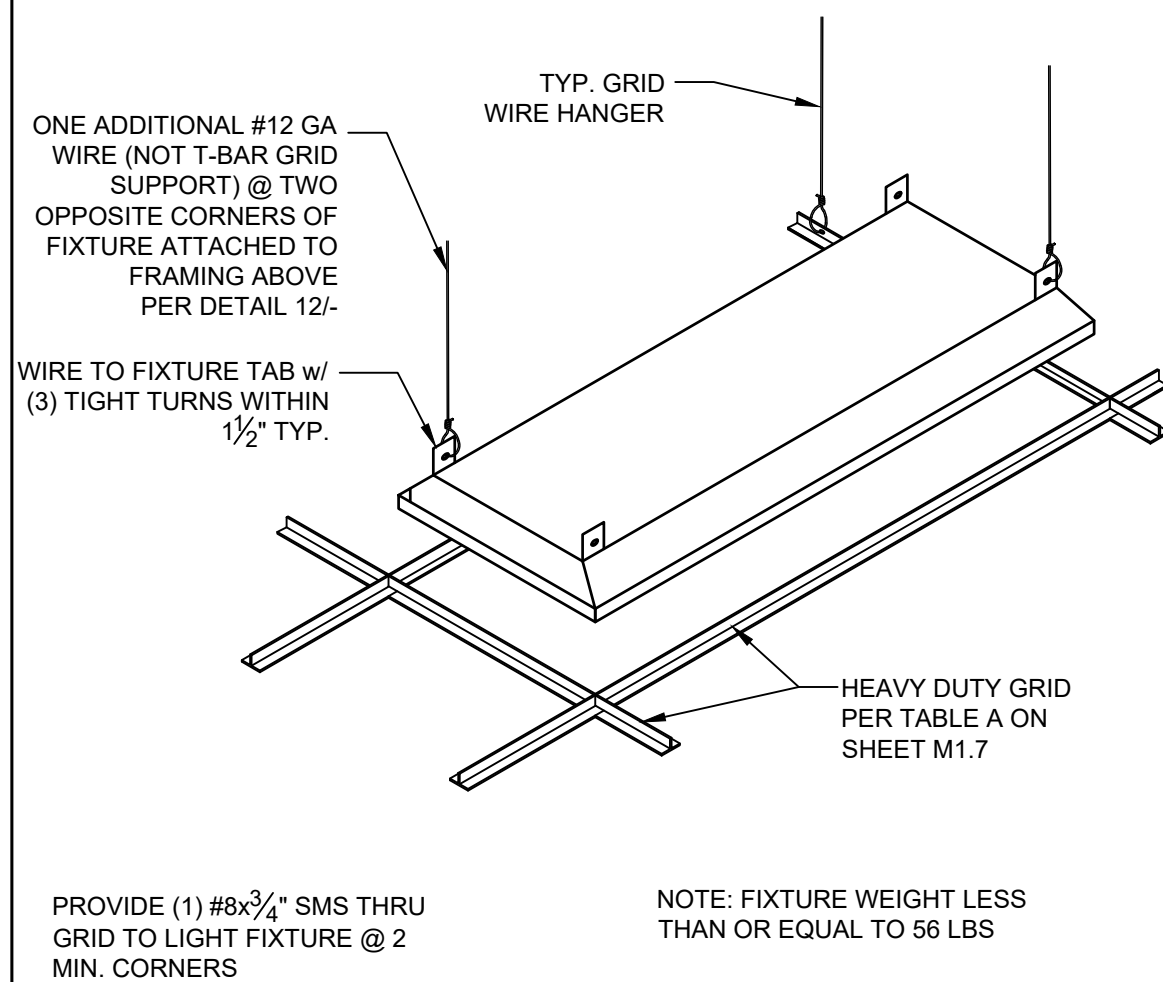
STRUT/SPLAY WIRE ASSEMBLY DETAIL

NOT TO SCALE 2



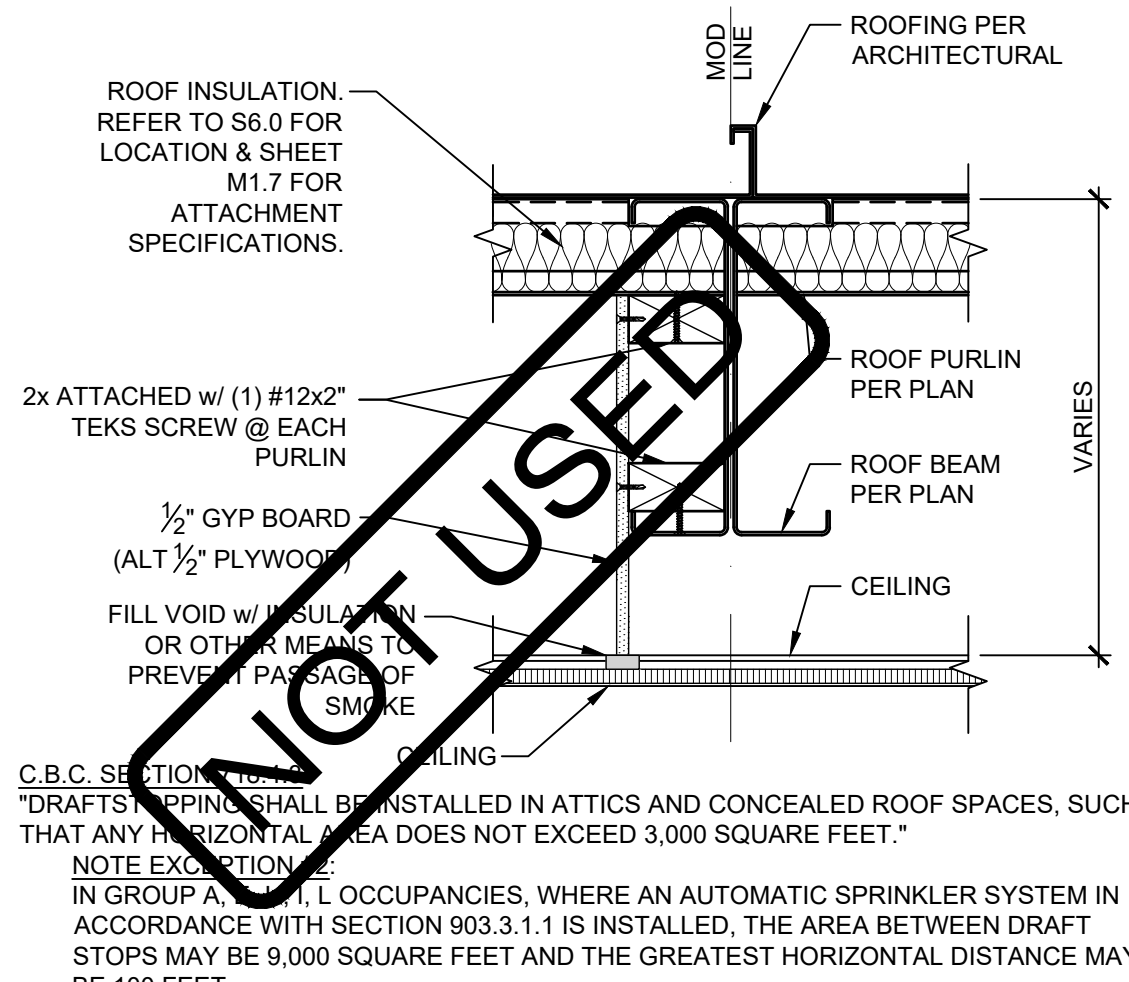
WATER HEATER STRAP DETAIL

NOT TO SCALE 6



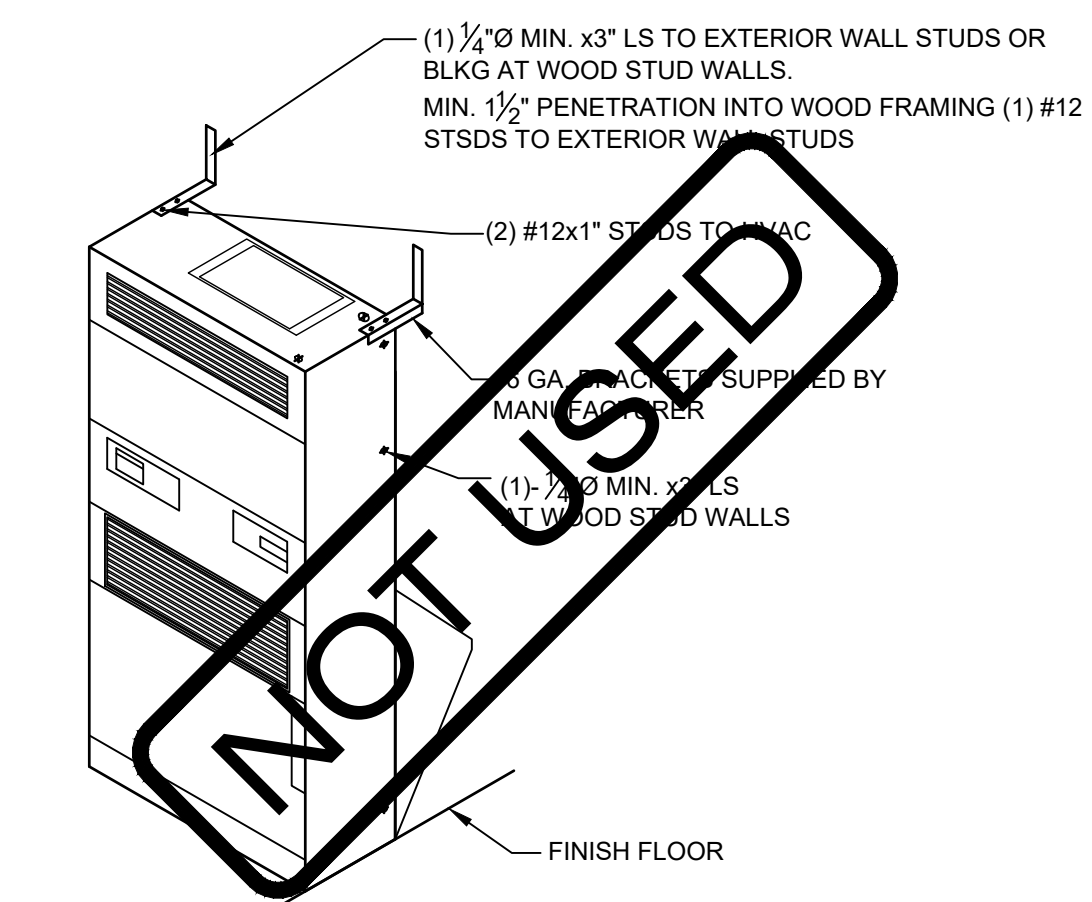
LIGHT FIXTURE ATTACHMENT

NOT TO SCALE 7



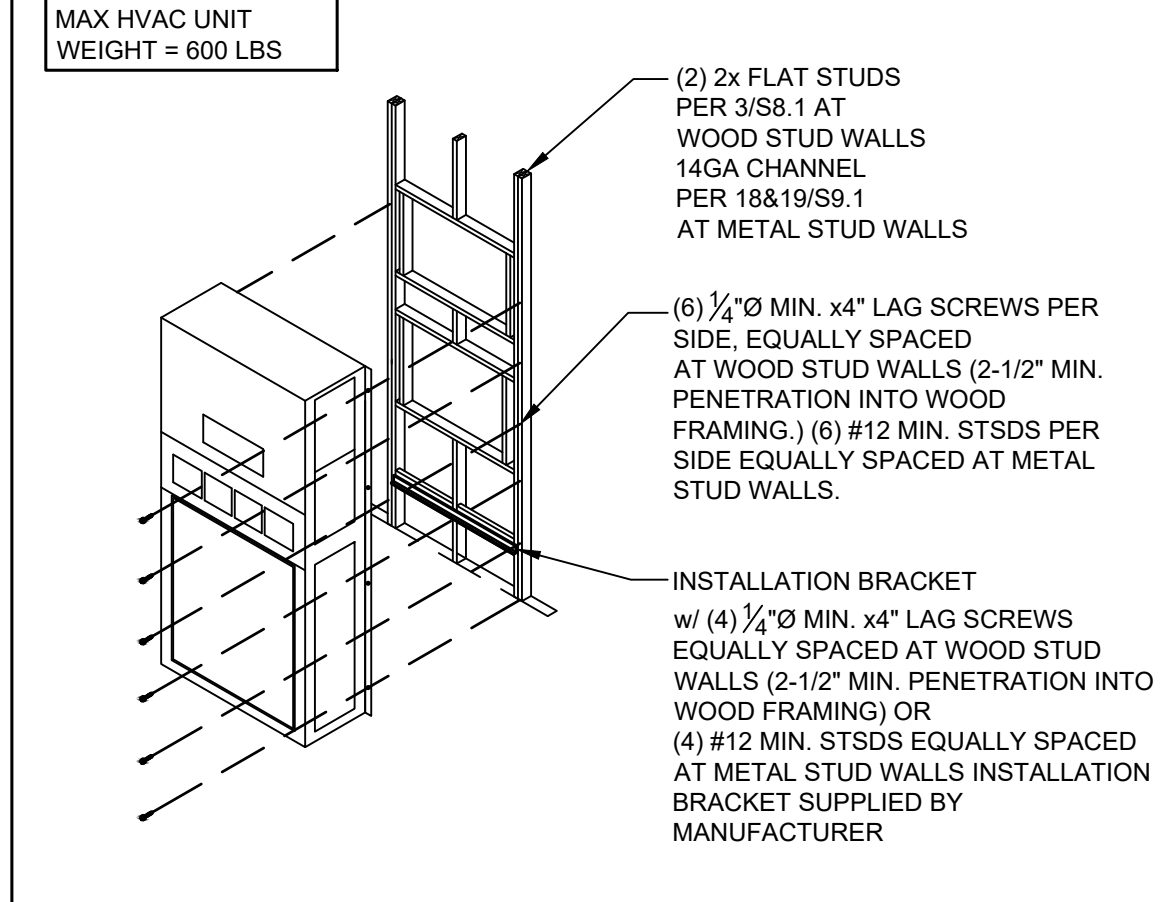
CEILING DRAFT STOP DETAIL

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



INTERIOR HVAC ANCHORAGE

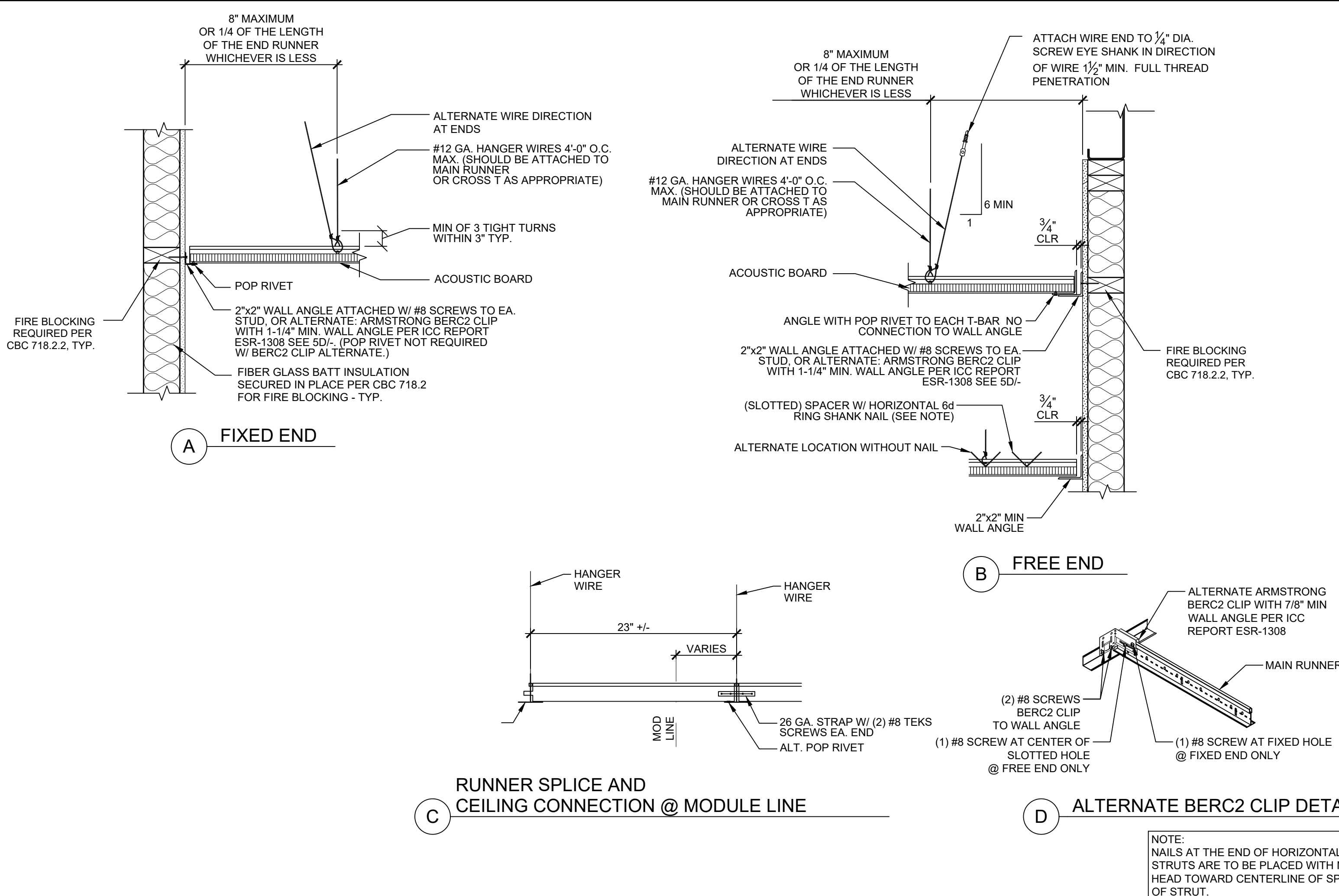
NOT TO SCALE 9



WALL MOUNT HVAC ANCHORAGE

NOT TO SCALE 10

NOT USED 11



A FIXED END

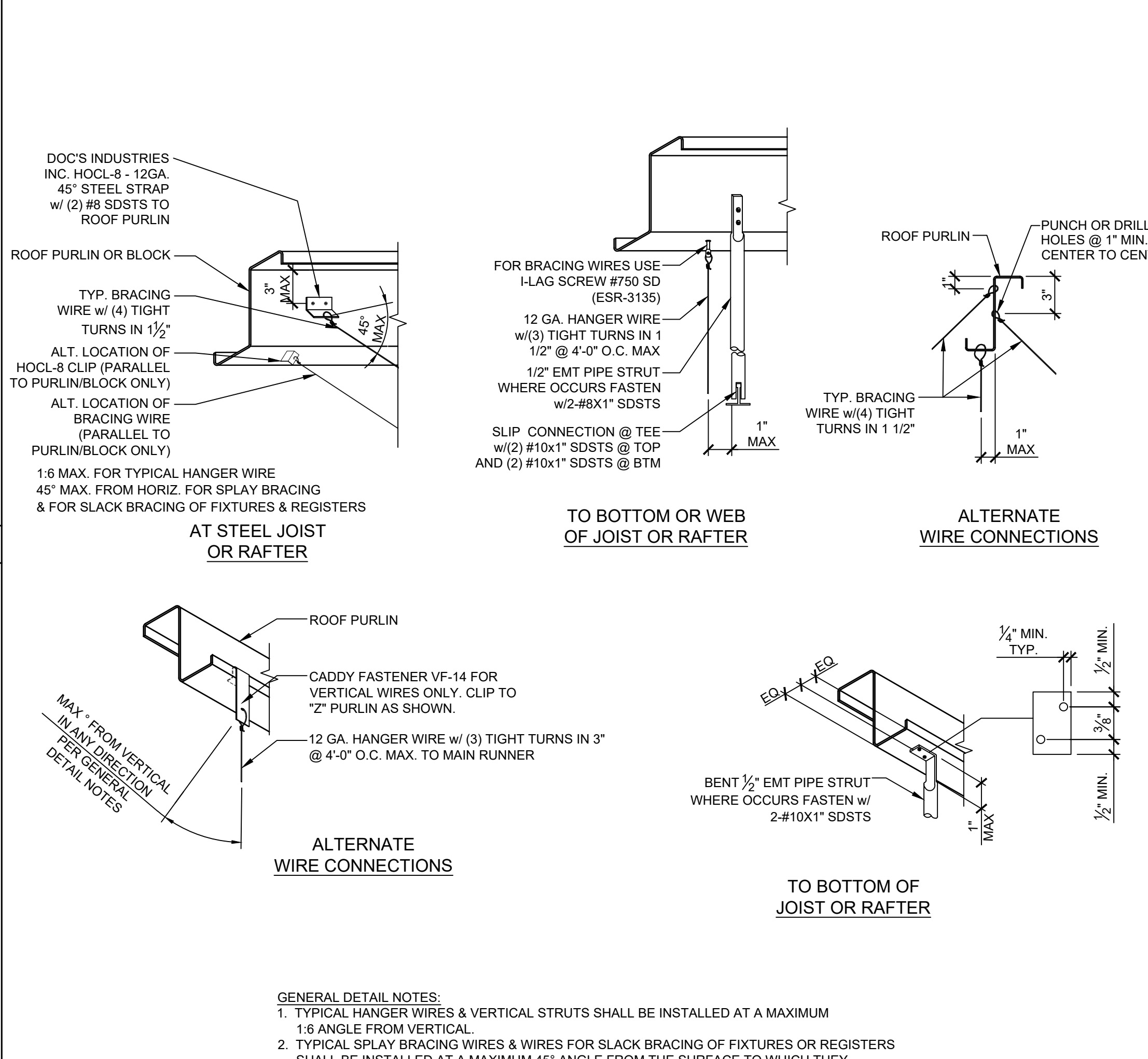
B FREE END

C RUNNER SPLICE AND CEILING CONNECTION @ MODULE LINE

D ALTERNATE BERC2 CLIP DETAIL

SUSPENDED CEILING ATTACHMENT DETAILS

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



SUSPENDED CEILING TO PURLIN CONNECTION DETAILS

NOT TO SCALE 12

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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

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2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

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REGISTERED ARCHITECT
PATRICK CANNON
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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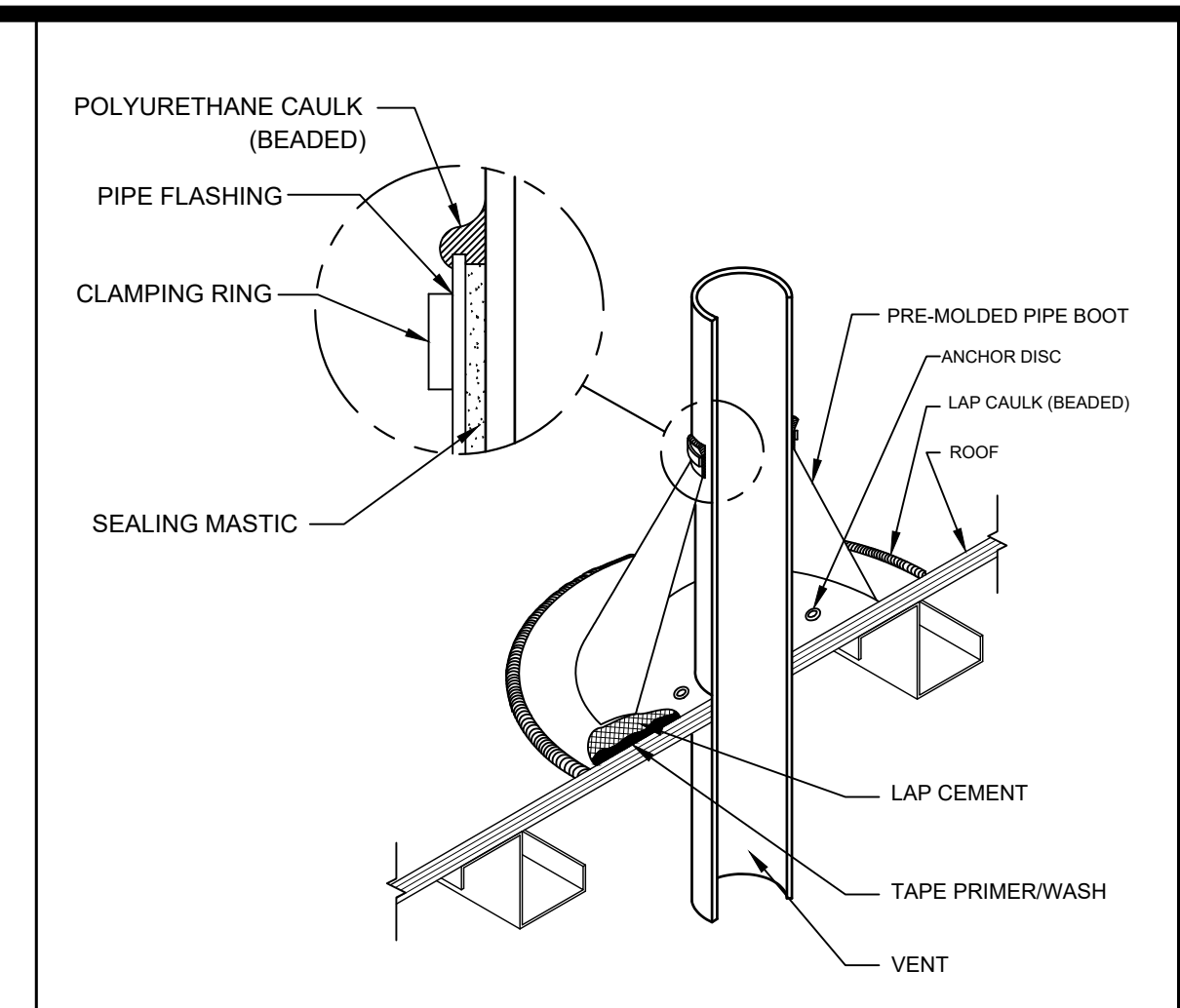
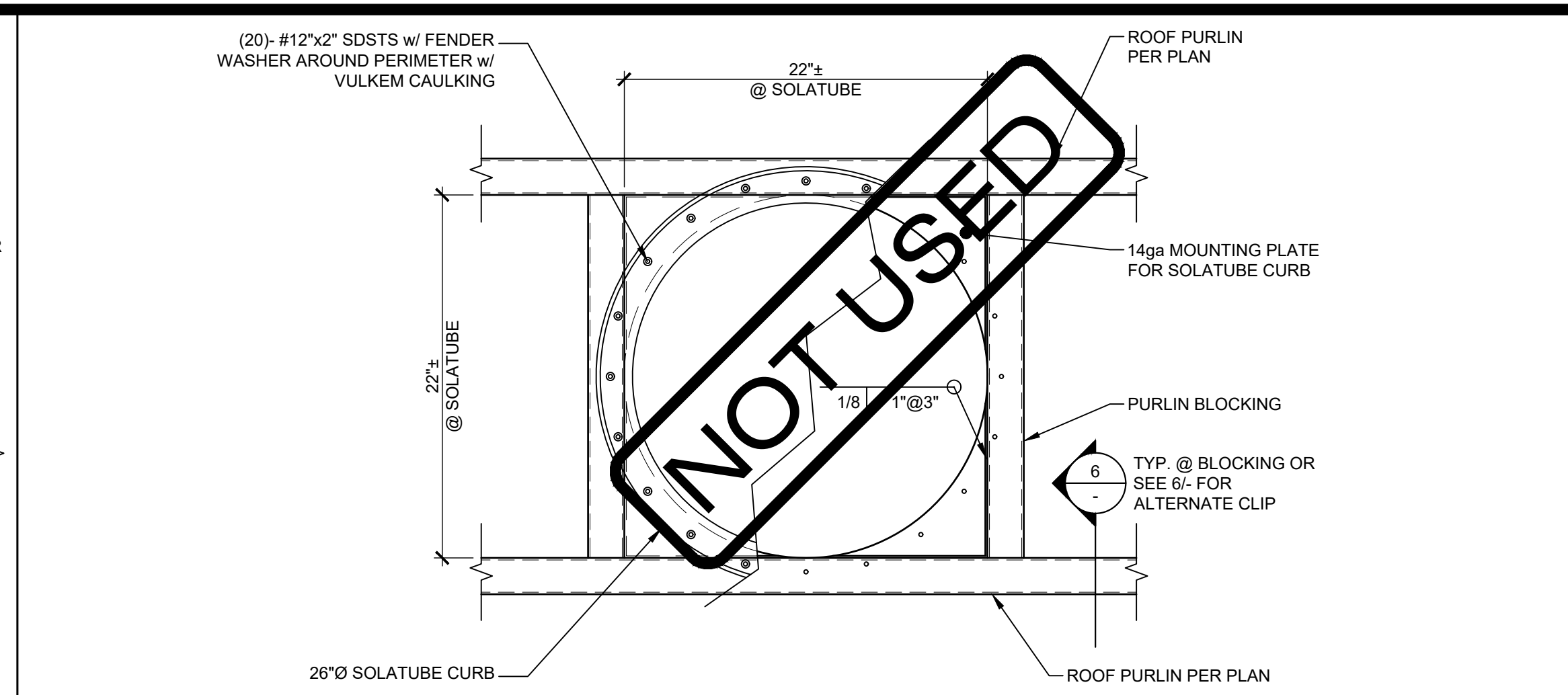
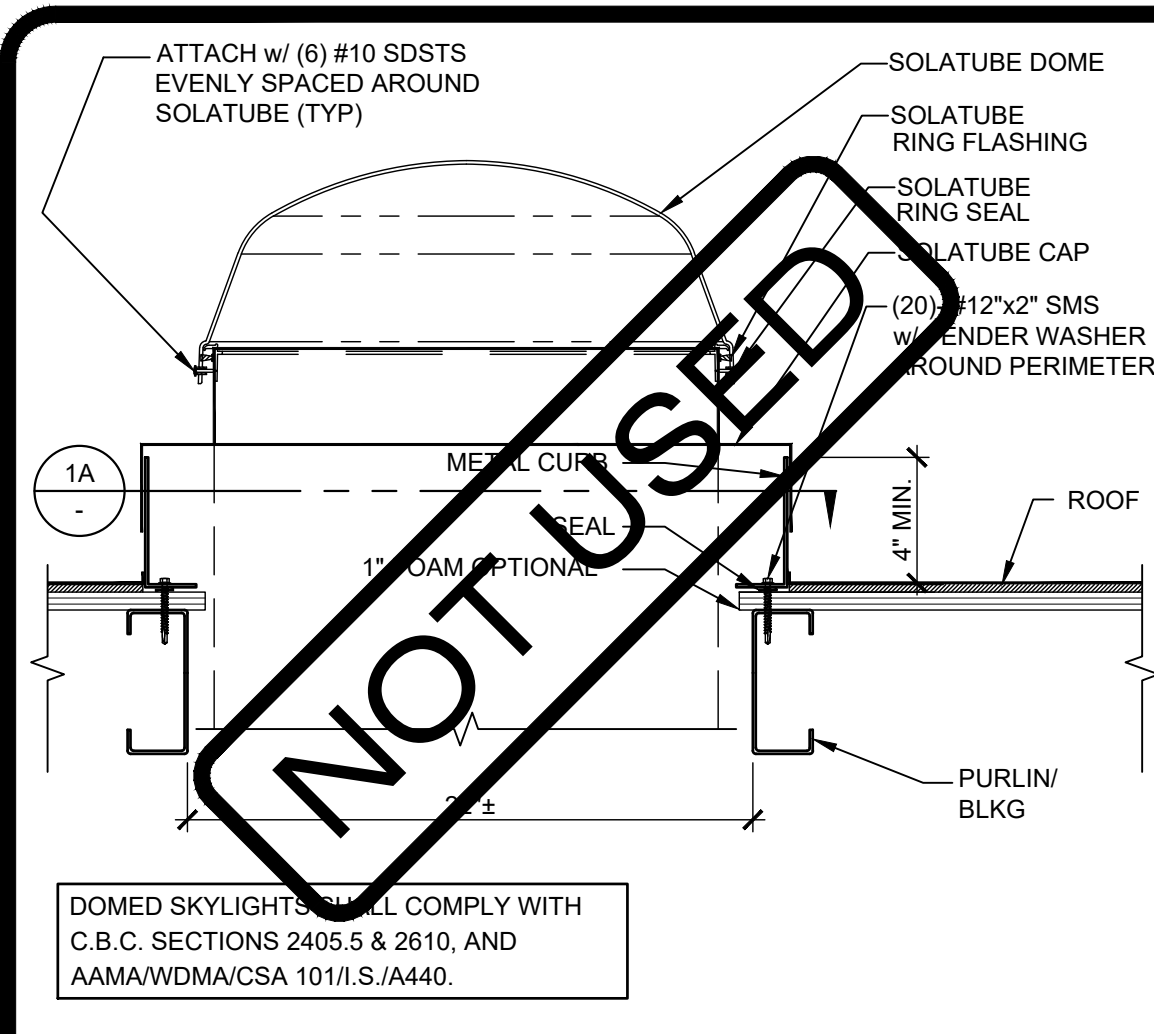
REVISIONS

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20

SHEET TITLE:
MECHANICAL AND CEILING DETAILS

SHEET NUMBER:

M1.4



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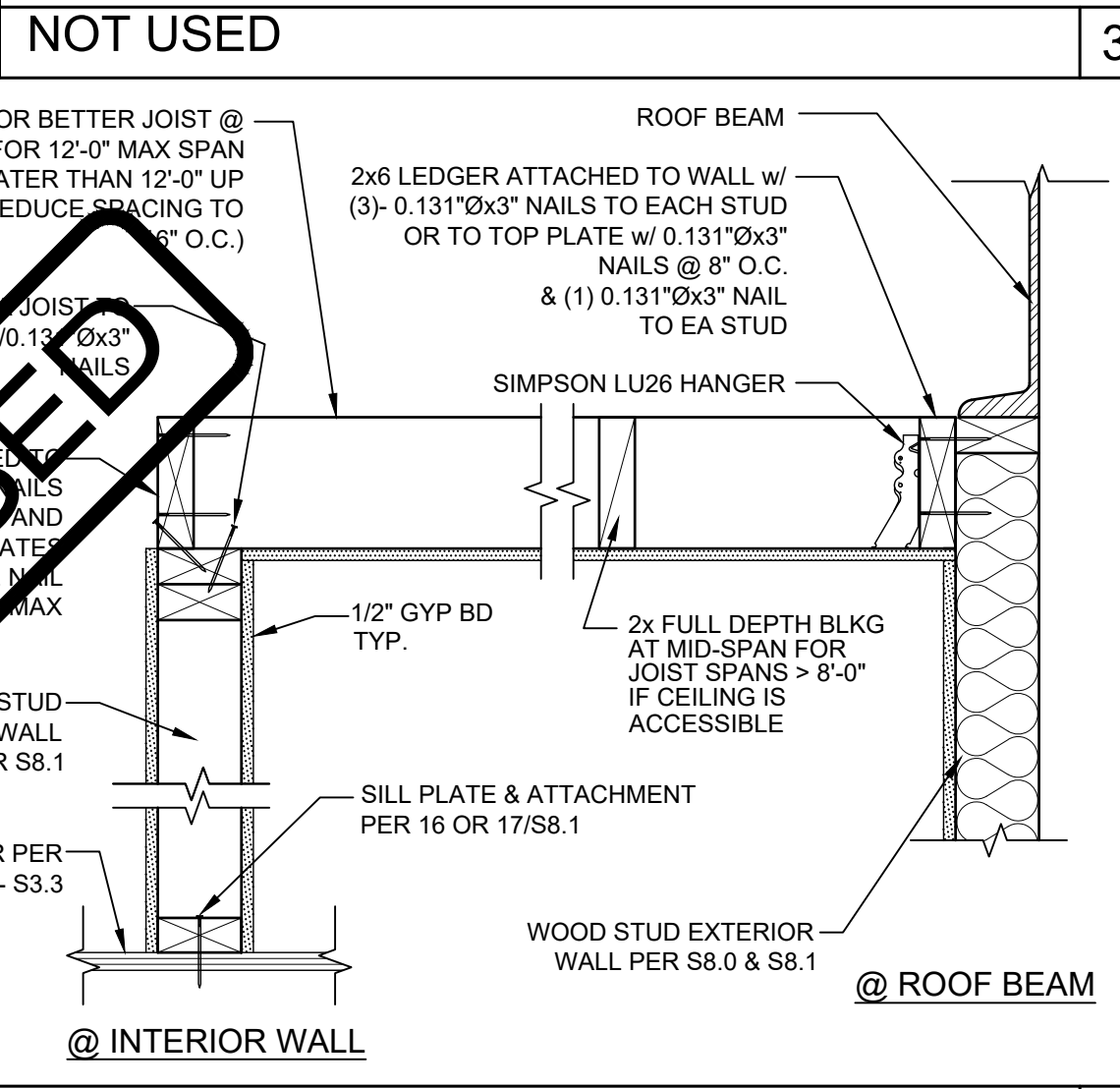
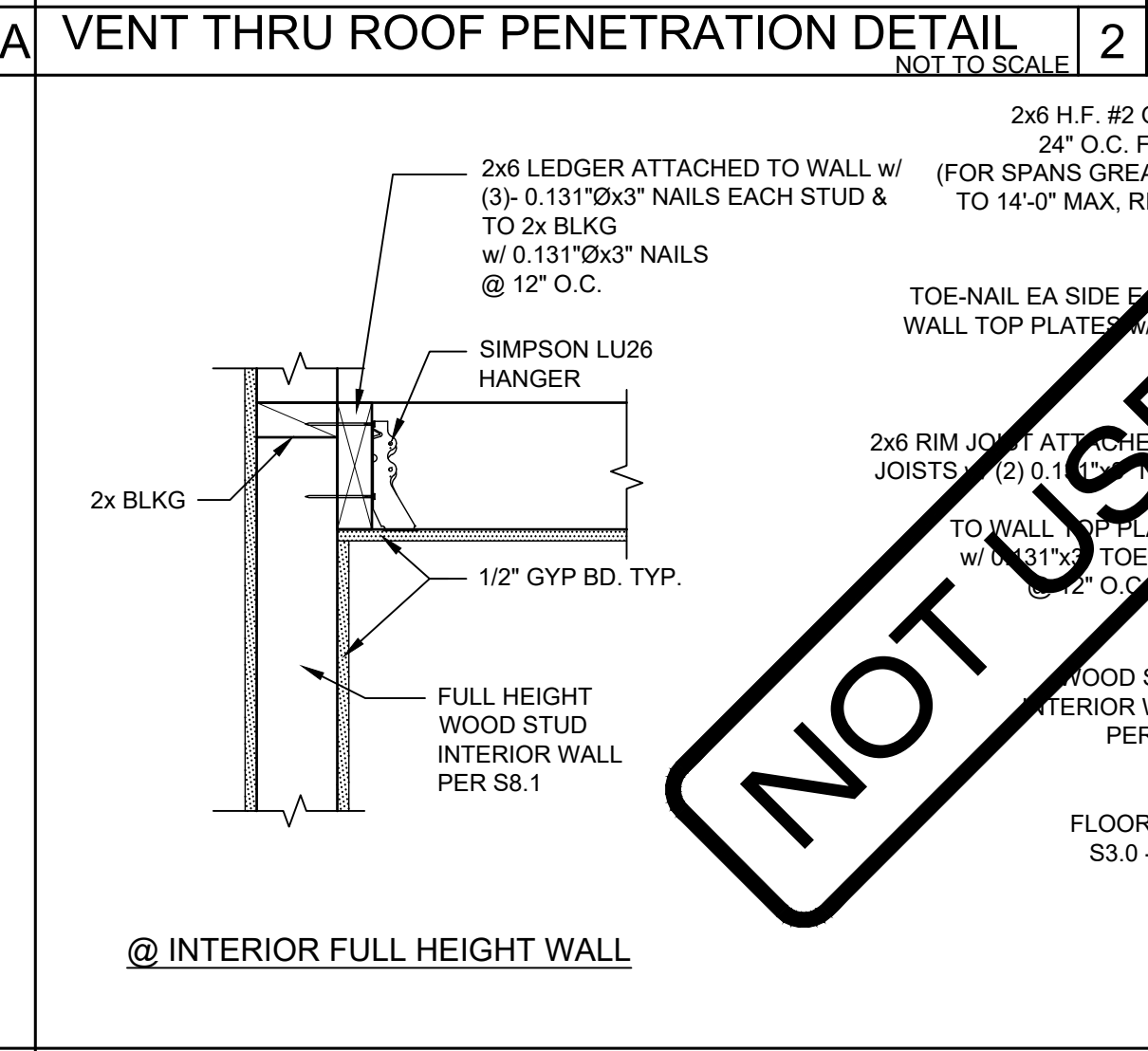
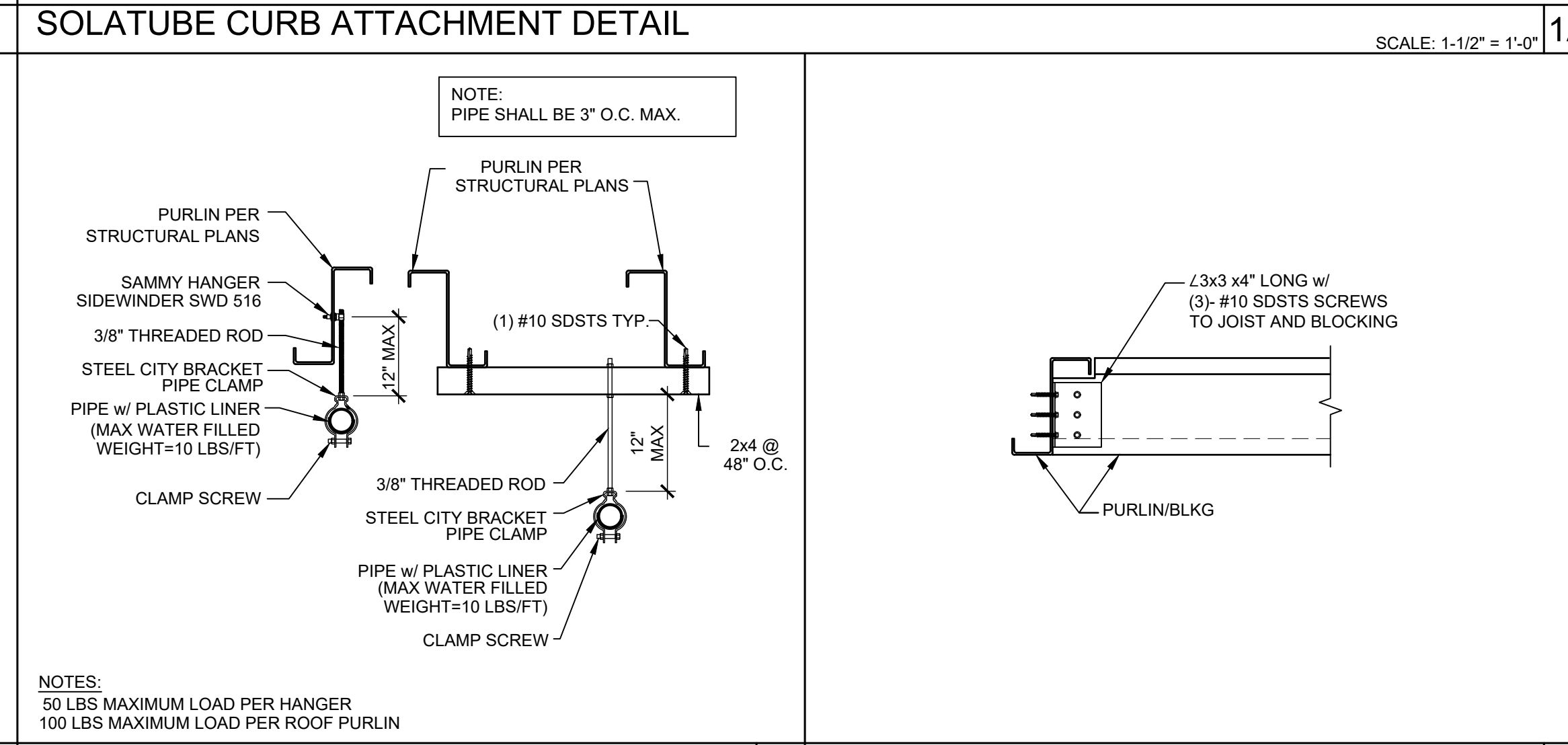
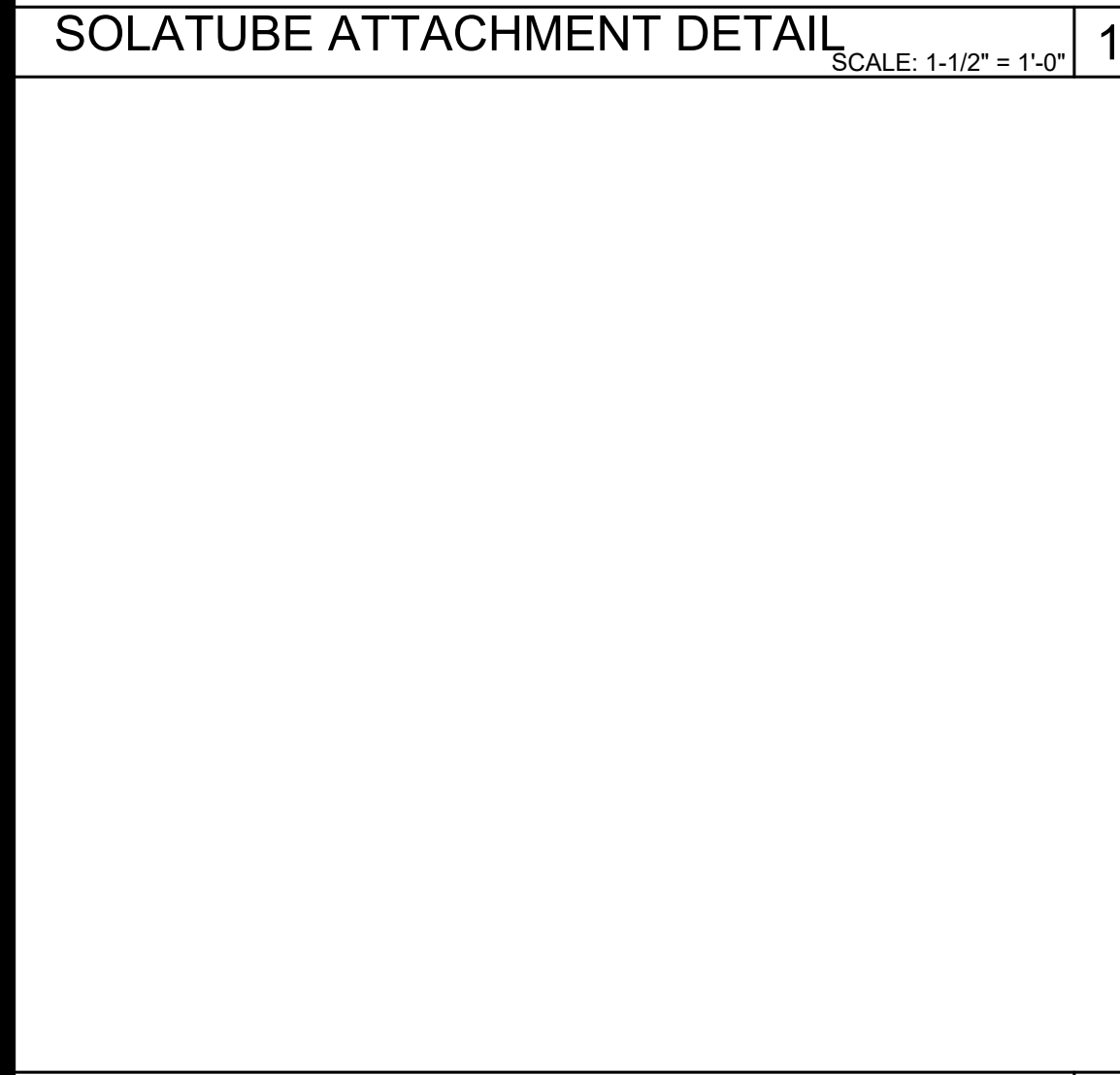
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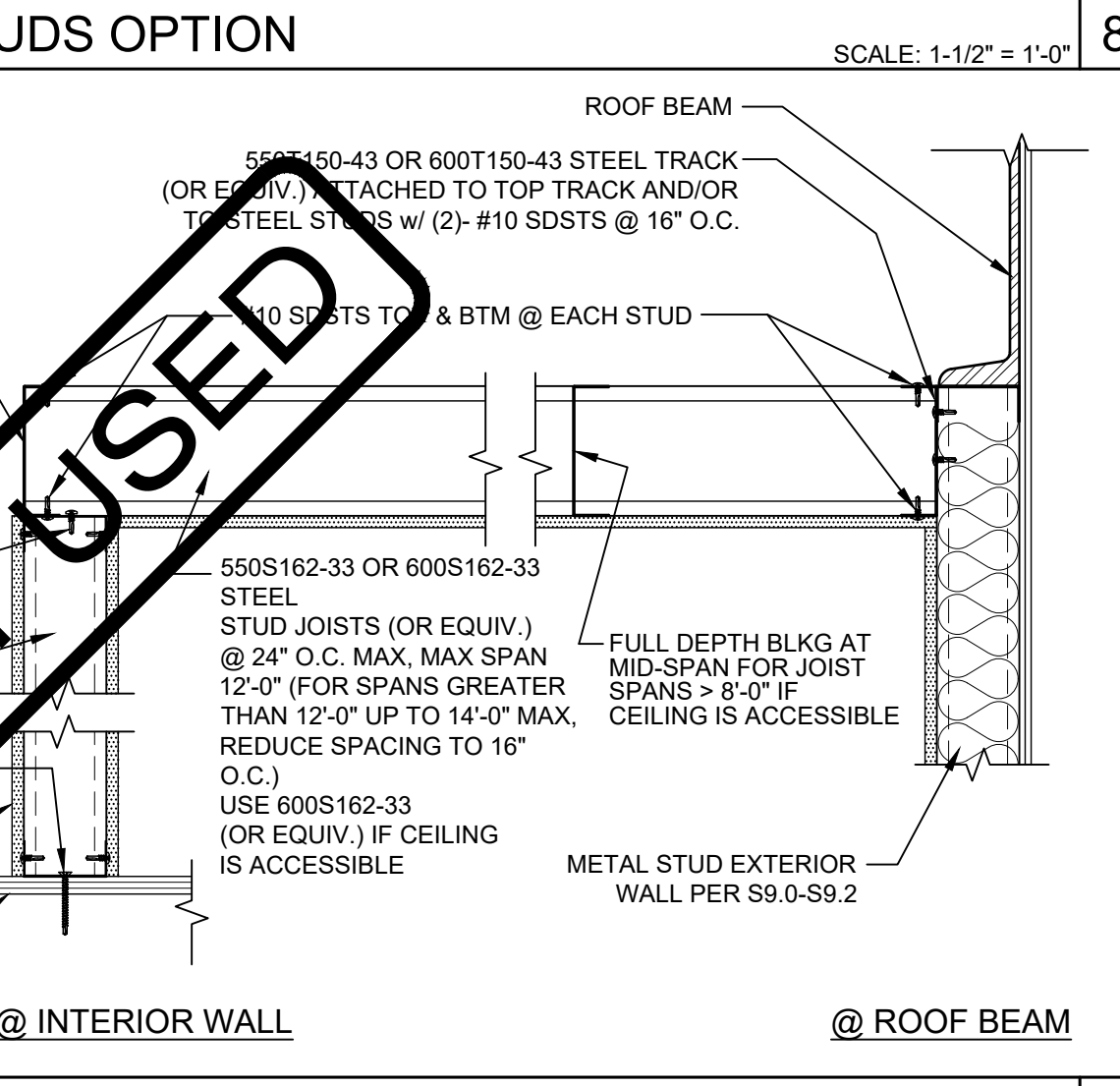
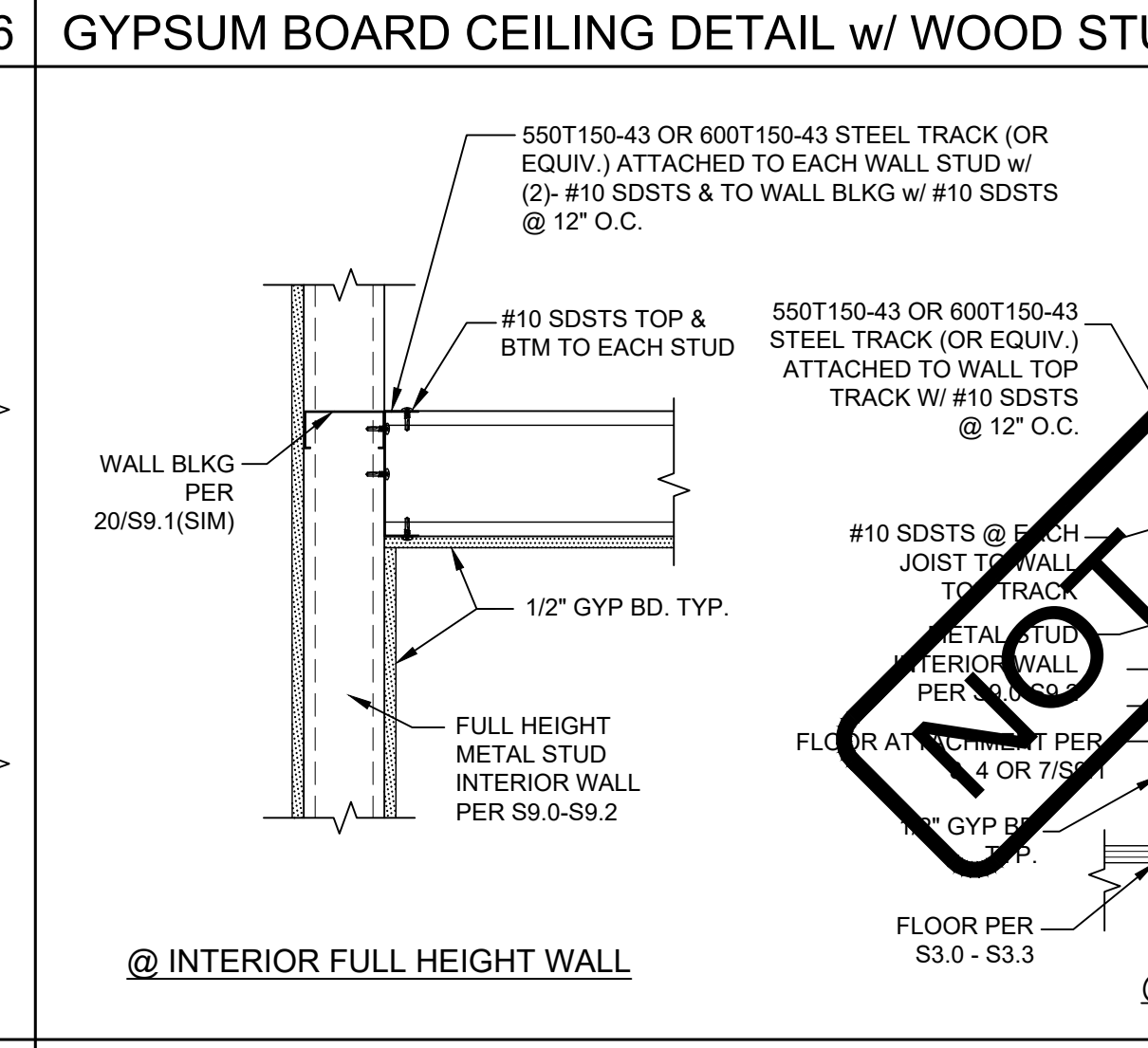
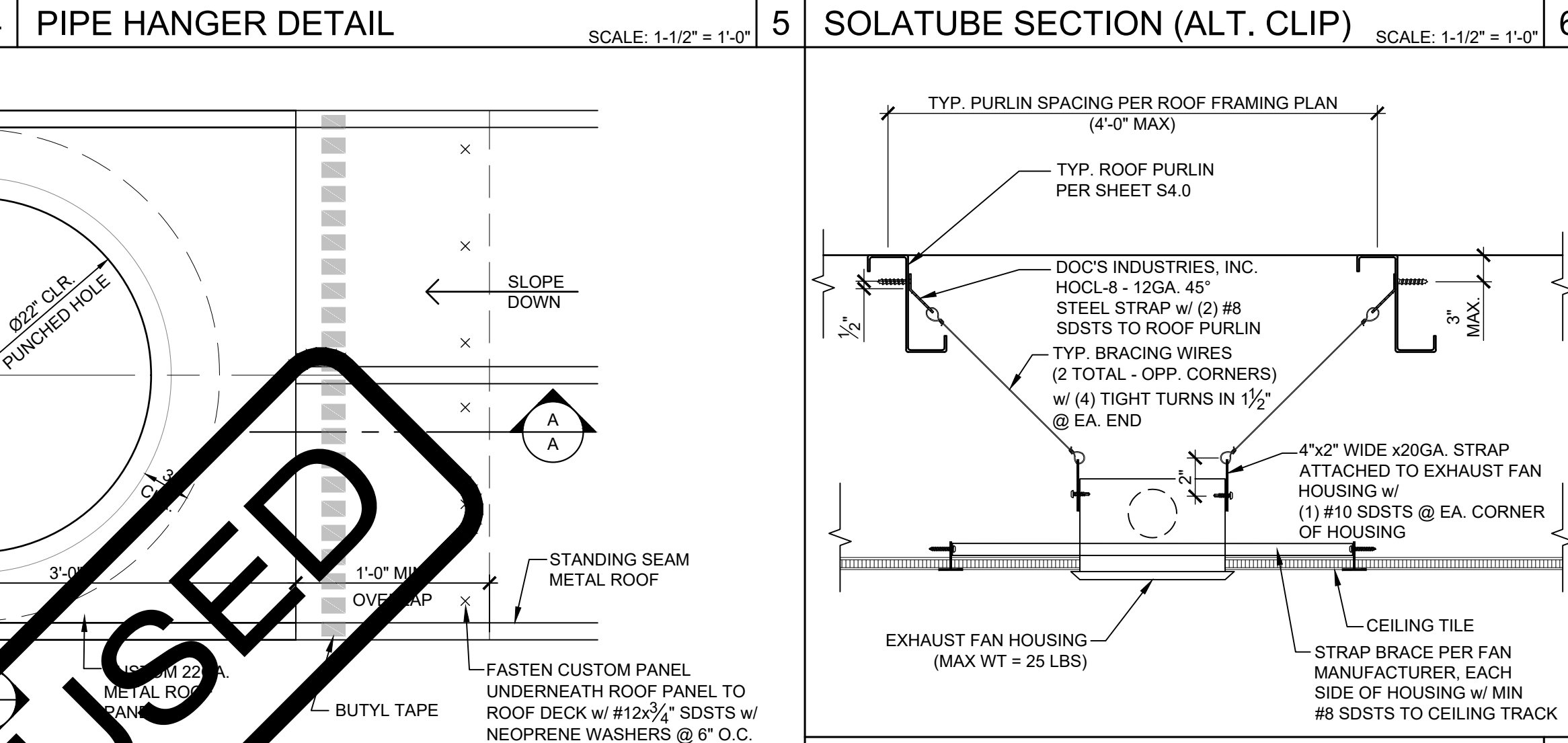
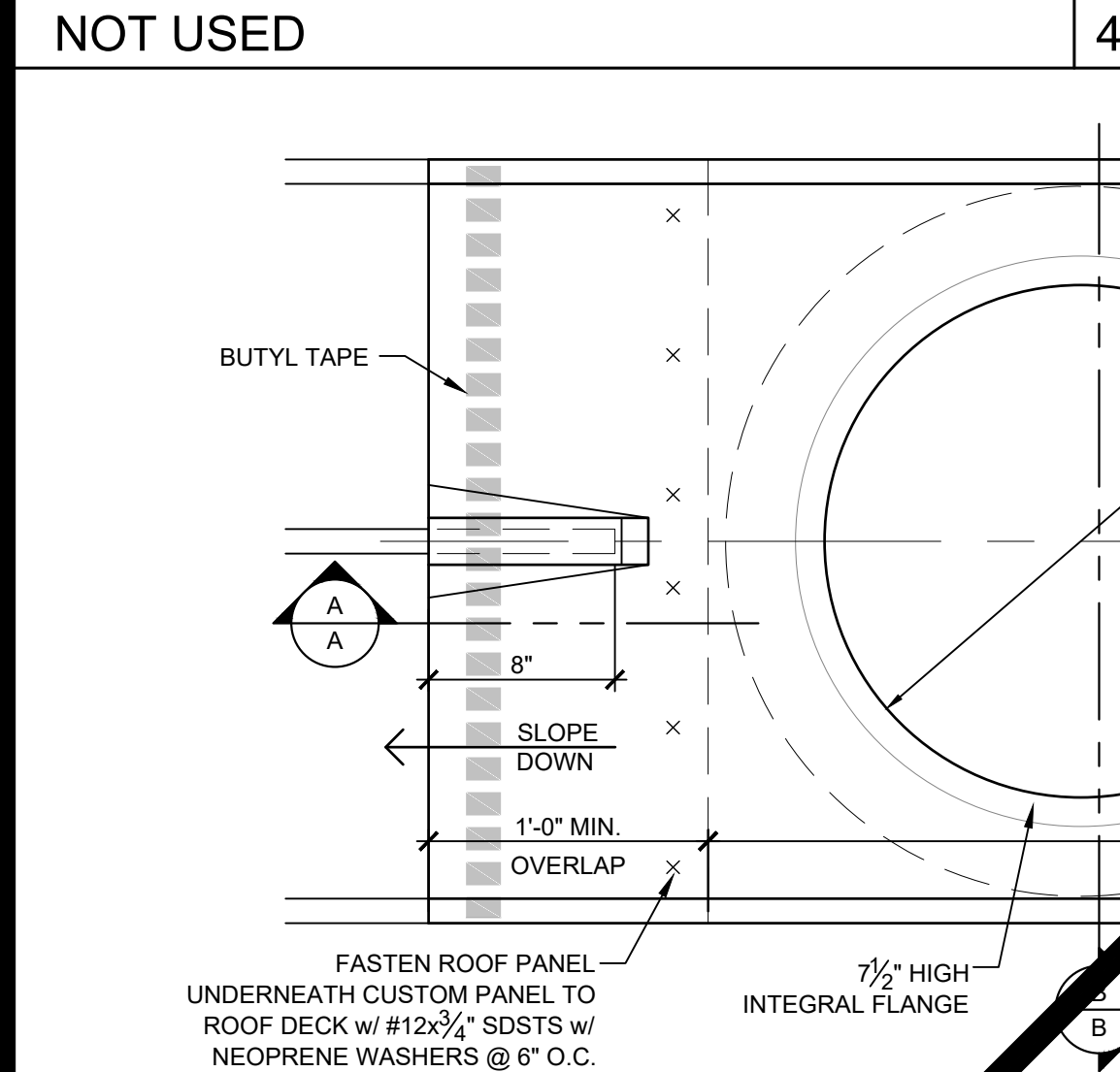
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Patricia Cantrell
LICENSED ARCHITECT
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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REVISIONS

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SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:
MECHANICAL ROOF DETAILS
SHEET NUMBER:
M1.6



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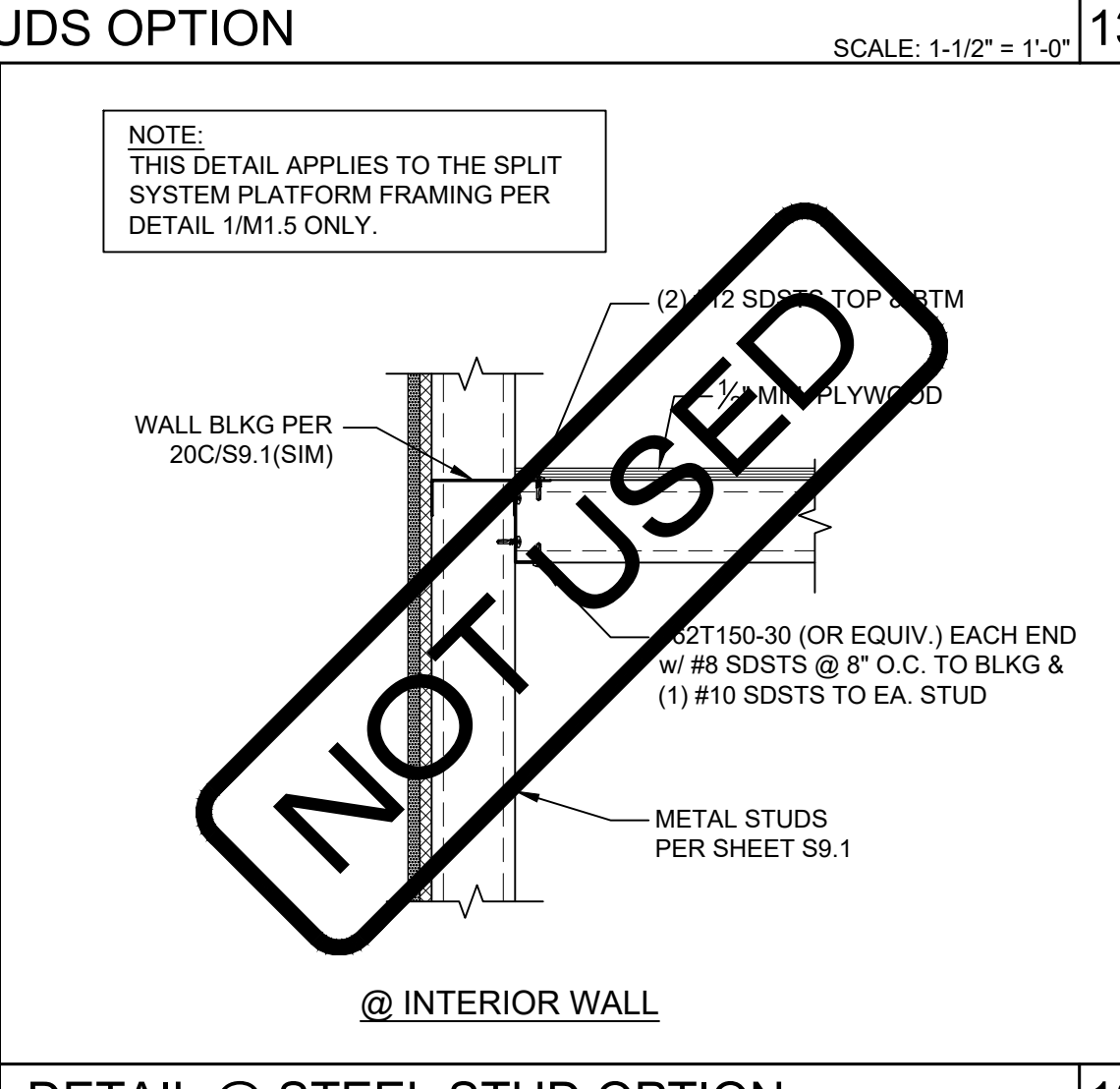
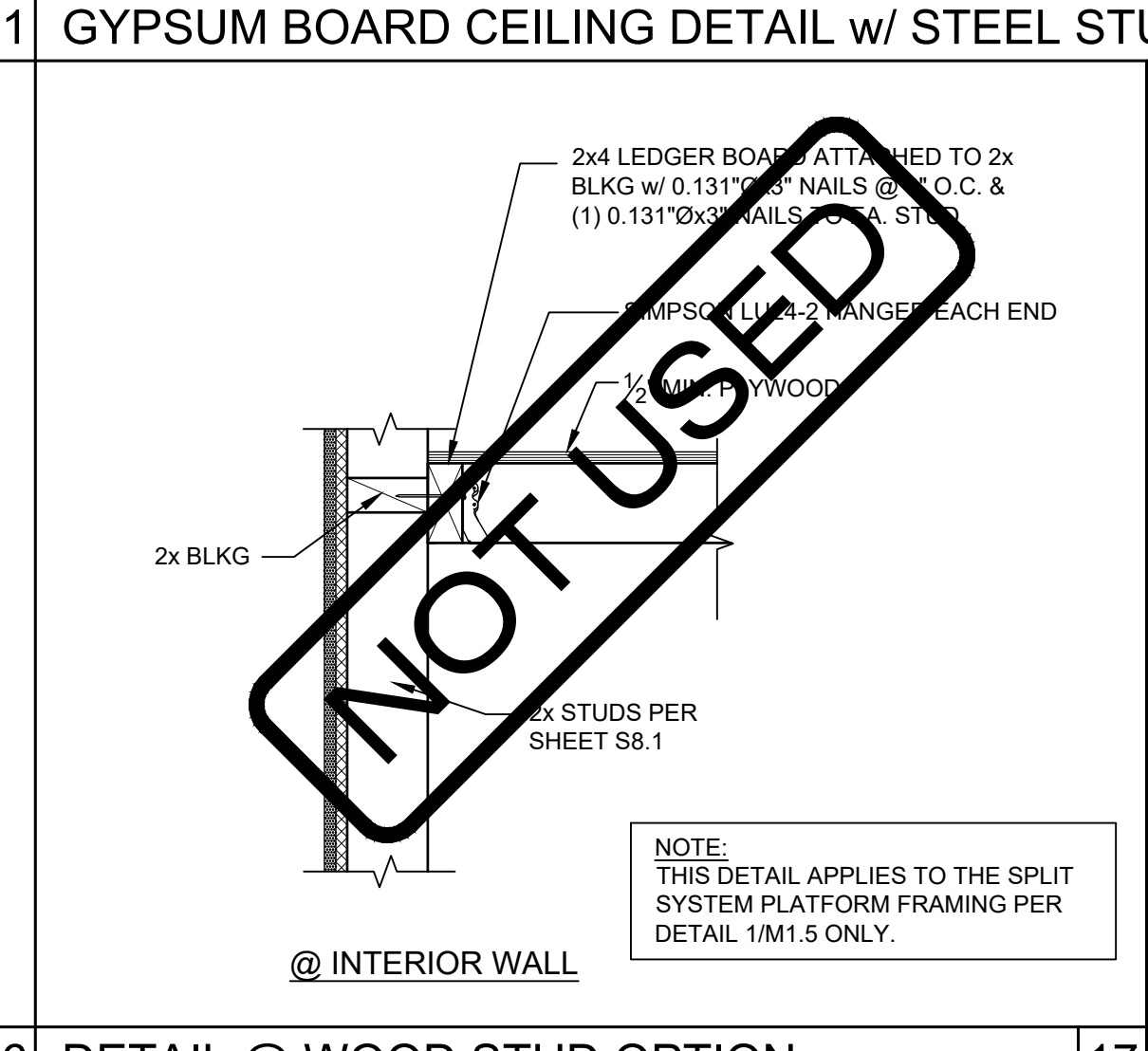
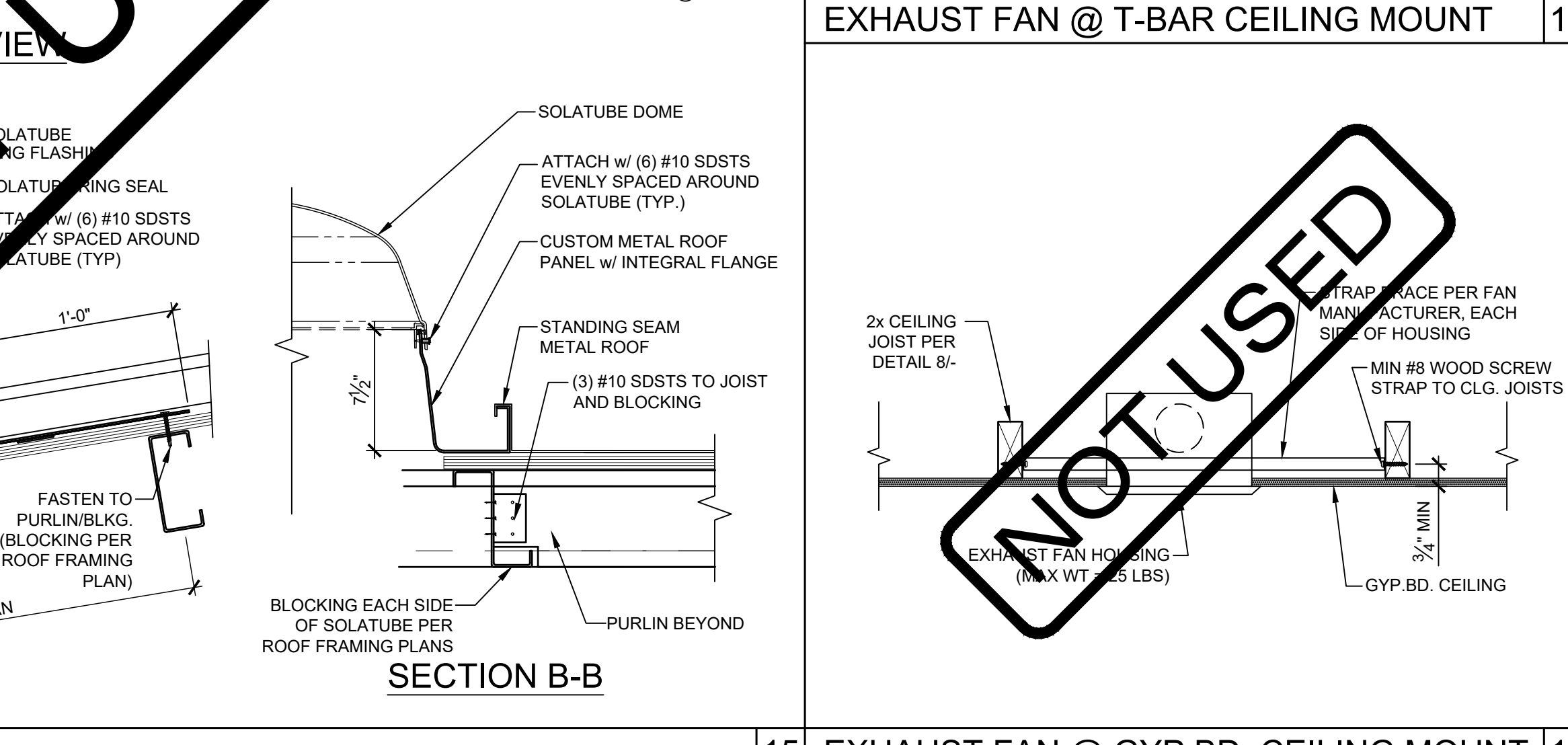
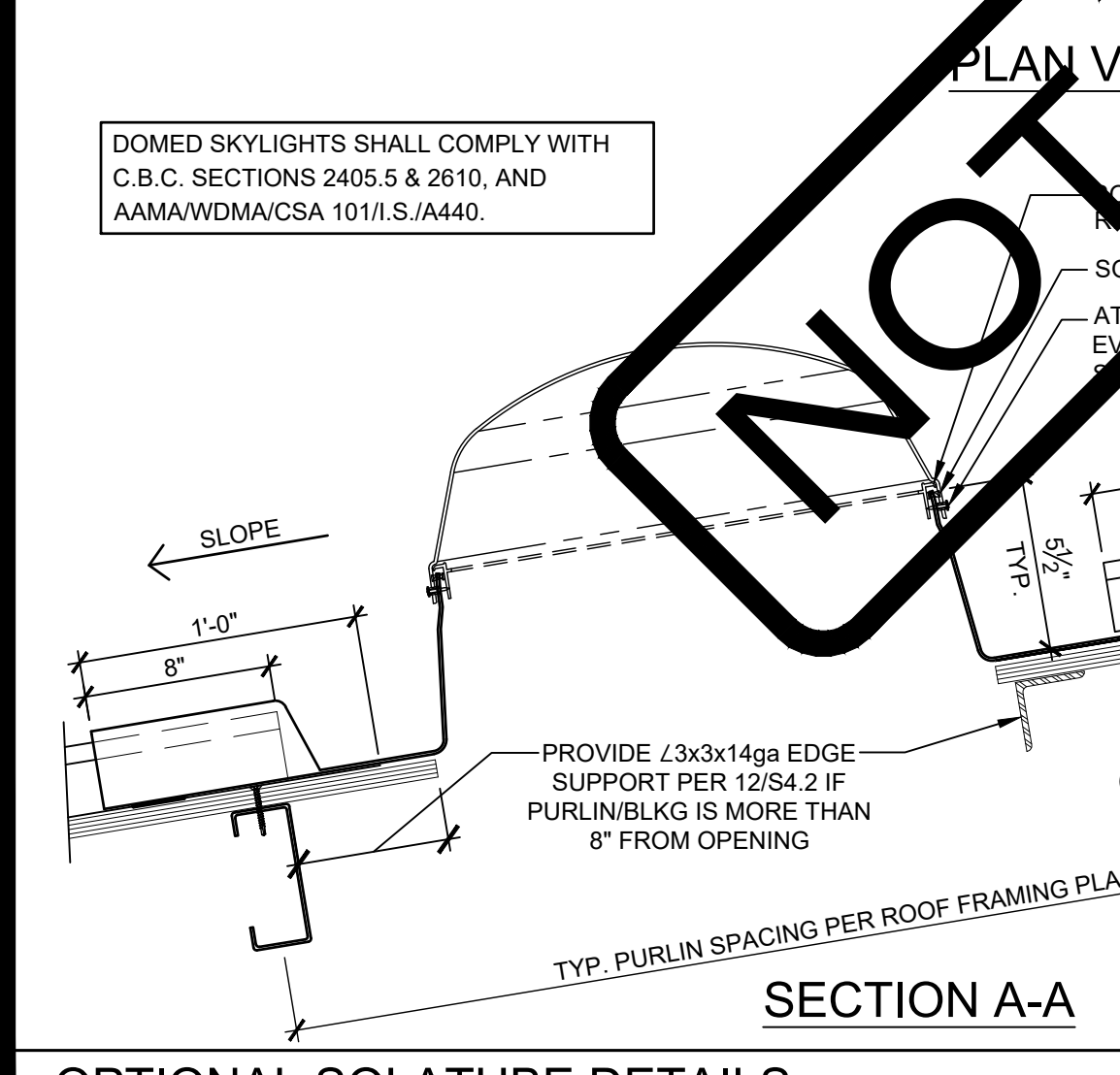
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MANUFACTURER PROFESSIONAL OF RECORD ON PC

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Ren. 3-31-23
STATE OF CALIFORNIA

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REVISIONS

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20
SHEET TITLE:
MECHANICAL ROOF DETAILS
SHEET NUMBER:
M1.6

OPTIONAL SOLATUBE DETAILS SCALE: 1-1/2" = 1'-0"

EXHAUST FAN @ GYP.BD. CEILING MOUNT SCALE: 1-1/2" = 1'-0"

DETAIL @ WOOD STUD OPTION SCALE: 1-1/2" = 1'-0"

DETAIL @ STEEL STUD OPTION SCALE: 1-1/2" = 1'-0"

DETAIL @ STEEL STUD OPTION SCALE: 1-1/2" = 1'-0"

- CEILING GRID SYSTEMS IN SEISMIC ZONES D, E, F, MUST BE RATED "HEAVY DUTY", AS DEFINED BY ASTM C635. PROVIDE GRID COMPONENTS AS SPECIFIED IN TABLE A BELOW, OR APPROVED EQUAL. GRID METAL FRAMING PIECES SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION AND TENSION, PER ASTM E580.
- SUSPENSION WIRE SHALL BE CLASS 1 ZINC-COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE WITH SOFT TEMPER AND A MINIMUM TENSILE STRENGTH OF 70 KSI.
- WHEN HANGER AND BRACING WIRES ARE ATTACHED TO CONCRETE ABOVE, TESTS PER D.S.A. IR 25-2.13 SECTION 6.8 MUST BE PERFORMED. POWER ACTUATED FASTENERS IN CONCRETE ARE NOT ALLOWED FOR BRACING WIRE.
- 12 GA. (MINIMUM) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0" GRID SPACING, ATTACH TO MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY D.S.A.
- PROVIDE 12 GA. HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, AT THE PERIMETER OF THE CEILING AREA.
- PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1:6 OUT OF PLUMB ARE TO HAVE COUNTER-BRACED WIRES.
- CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
- PERIMETER SUPPORT ANGLES SHALL BE AT LEAST 2 INCHES WIDE, OR USE PROPRIETARY ANGLES & SEISMIC CLIPS THAT HAVE A VALID EVALUATION REPORT.
- AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED, WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 8" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
- CEILING AREAS EXCEEDING 2,500 SQUARE FEET SHALL HAVE A SEISMIC SEPARATION JOINT.
- EXPANSION JOINTS SHALL BE PROVIDED AT INTERSECTIONS OF CORRIDORS, LOBBIES AND OTHER SIMILAR AREAS.
- PENETRATIONS THROUGH THE CEILING, SUCH AS FIRE SPRINKLERS, SHALL HAVE A 2 INCH OVERSIZED RING, SLEEVE OR ADAPTER TO ALLOW FREE MOVEMENT INDEPENDENT OF THE CEILING. ALTERNATE: A FLEXIBLE SPRINKLER FITTING THAT ALLOWS 1 INCH OF MOVEMENT CAN BE USED.
- LATERAL FORCE BRACING IS REQUIRED FOR ALL CEILINGS, EXCEPT CEILING AREAS OF 144 SQUARE FEET OR LESS WITH PERIMETER WALLS THAT ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES. SPACING OF BRACING ASSEMBLIES MUST BE SHOWN ON THE PLANS.
- LATERAL FORCE BRACING CONSISTS OF A SET OF 1 COMPRESSION STRUT AND FOUR #12 GA. SPLAYED BRACING WIRES, ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
 - FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
 - PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL D.S.A. APPROVAL.
- COMPRESSION STRUTS SHALL BE ABLE TO RESIST THE VERTICAL PULL INDUCED BY BRACING WIRES, AND SHALL NOT BE MORE THAN 1:6 OUT OF PLUMB.
- FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS WITHIN A DISTANCE OF 3 INCHES. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
- SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC.
- ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS WITH SCREWS OR APPROVED FASTENERS AS REQUIRED TO RESIST A HORIZONTAL FORCE EQUAL TO THE FIXTURES' WEIGHT. MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE.
- FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM, BUT THEY MUST HAVE A MINIMUM OF TWO #12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. FIXTURES WEIGHING LESS THAN 10 POUNDS MAY HAVE AT LEAST ONE #12 GA. SLACK SAFETY WIRE.
- LIGHT FIXTURES AND OTHER CEILING DEVICES WEIGHING MORE THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NO LESS THAN FOUR (4) TAUT #12 GAGE WIRES, ATTACHED TO THE STRUCTURE ABOVE. WIRES MUST BE ABLE TO SUPPORT FOUR (4) TIMES THE WEIGHT OF THE UNIT.
- ALL LIGHT-WEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 2.6.3 OF D.S.A. IR 25-2.13. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 7.2.2 OF D.S.A. IR 25-2.13. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.3.4 OF D.S.A. IR 25-2.13.
- PANELS THAT WEIGH MORE THAN 0.5 LBS/SQ.FT. (PSF), OTHER THAN MINERAL FIBER ACOUSTIC TILES, SHALL BE POSITIVELY ATTACHED TO CEILING SUSPENSION RUNNERS.
- ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS, LAY-IN PANELS, SQUARE EDGE, ASTM FLAME SPREAD CLASS T, 24"x48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM, MAXIMUM SMOKE DENSITY NOT TO EXCEED 450. FLAME SPREAD RATING MAXIMUM OF 200. PANELS ARE NOT ALLOWED TO SUPPORT ANY FIXTURE, TERMINAL OR DEVICE.
- THERMOSTAT SHALL BE PROGRAMMED TO PREVENT SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. THE CUT-ON TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-ON TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT-OFF TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-OFF TEMPERATURE FOR SUPPLEMENTARY HEATING PER CEC 2019 SECTION 110.2(b).

HVAC CFM CHART							
	MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS)	EER	COP	CLIMATE ZONE(S)
BARD WALL HUNG	W24HB	2 TON HEAT PUMP	818	500	11.3	3.3	1-16
	W30HB	2 1/2 TON HEAT PUMP	1063	500	11	3.4	1-16

NOTE: FOR BARD PACKAGED VERTICAL UNITS, UTILIZE THE CRV-F5 OR EQUIVALENT VENTILATION KIT TO BRING IN OUTSIDE AIR.

HVAC CFM CHART							
	MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS)	EER	COP	CLIMATE ZONE(S)
BARD ITECH		2 TON HEAT PUMP					
	130H1-A	2 1/2 TON HEAT PUMP	900	816	11.7	3.6	1-16

HVAC CFM CHART								
	MODEL #	DESCRIPTION	AIR HANDLER MODEL # (INTERIOR OR AT-FIX MOUNTED)	MAX. CFM	UNIT WEIGHT (LBS)	EER	SEER	CLIMATE ZONE(S)
CARRIER SPLIT DX SYSTEM	25HCE424A003	2 TON HEAT PUMP	FX4DN025	800	122	11.5	14.0	1-16
	25HCE430A003	2 1/2 TON HEAT PUMP	FX4DN031	1000	146	11.5	14.0	1-16

HVAC SCHEDULE					
# OF HVAC CLIMATE ZONES 1-14	# OF HVAC CLIMATE ZONE 15		# OF HVAC CLIMATE ZONE 16		
2 TON HVAC	2 1/2 TON HVAC	2 TON HVAC	2 1/2 TON HVAC	2 TON HVAC	2 1/2 TON HVAC
1			1	1	

MINIMUM INSULATION SCHEDULE						
ZONE	WALL	ROOF		FLOORS (NON-CONCRETE)	CONCRETE FLOORS	
		BATTS	RIGID			
1-2	R-13	R-19	R-19	R-19	N/A	
3-15	R-13	R-19	R-5	R-13	N/A	
16	R-13	R-19	R-15	R-19	N/A	

* IN ADDITION TO R-13 BATT INSULATION, R-4 RIGID INSULATION TO BE USED OVER METAL FRAMED WALLS
 ** SECURED w/ 22 GA WIRE @ 16" O.C.

ADDITIONAL HVAC NOTES:
 MANUAL OVERRIDE CONTROLS ARE A MANDATORY MEASURE UNDER ENERGY CODE SECTION 120.2(e). ALL HVAC SYSTEMS SHALL HAVE A MANUAL OVERRIDE ACCESSIBLE TO THE OCCUPANTS THAT ALLOWS THEM TO TURN ON THE HVAC SYSTEM DURING NORMAL UNOCCUPIED TIMES. THIS CAN BE A MANUAL OVERRIDE FOR UP TO 4 HOURS, OCCUPANCY SENSOR, OR A 4 HOUR MANUALLY OPERATED TIMER.

HEATING VENTILATING AND AIR CONDITIONING (HVAC)

- HEAT PUMP: SINGLE PACKAGE WALL-MOUNTED AIR-TO-AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH A.R.I. STANDARD 240-77. MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT. ALL UNITS SHALL BE 230/208 VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE, AND MEET CURRENT ENERGY STANDARDS.
 - THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78 DEGREES F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY ONE-THIRD FRESH AIR. (DESIGN OUTSIDE AIR = 182 CFM)
- DUCTWORK
 - CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE EQUIPMENT VOLUME, AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL, LATEST EDITIONS. ALL DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT ATTENUATION AT ALL DUCTWORK WITHIN 2'-0" OF HVAC UNIT.

HEATING VENTILATING AND AIR CONDITIONING (HVAC) continue

- NON-METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM, RIGID 1" FIBERGLASS OR INSULATED FLEX-DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 2'-0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE. REFERENCE BRANDS: OWENS-CORNING FIBERGLASS DUCTBOARD, 1" THICK, AND MICRO-AIRE TYPE 475. NON-METALLIC DUCTWORK SHALL CONFORM TO NFPA 90-A AND SMACNA CLASS 1 RATING.
 - DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. (MINIMUM R=4.2) HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4' INTERVALS, WITH HANGING STRAPS A MINIMUM 1-1/2" WIDE. DUCTS MUST BE PULLED TIGHTS WITH A MAXIMUM SAG OF 1/2" PER FOOT OF HORIZONTAL RUN. DUCTS SHALL NOT BE KINKED OR CRUSHED. BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.
 - SIZES OF SUPPLY AND RETURN DUCTS SHALL BE SPECIFIED ON PLANS. HVAC CURB SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALIGN WITH THE HVAC UNIT.
 - FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4 AND CMC 603.4.1
- AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25, SMOKE GENERATION LESS THAN OR EQUAL TO 50.
 - SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAXIMUM, 12" ROUND. 1" FIBERGLASS OR FLEXDUCT DUCTWORK SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS. 24"x8"x1" MICRO-AIRE TYPE #475 OWENS-CORNING, KNAUF, CERTAINTED, OR EQUAL AND 90-B-UL #131 TEST, CLASS 1 RATING WITH "SMACNA".
 - REGISTERS AND DIFFUSERS: PROVIDE THREE (MINIMUM) 4-WAY THROW AIR DIFFUSERS AS MANUFACTURED BY CARNES, TITUS, HART AND COOLEY, METALAIRE, SHOEMAKER, BARBER-COLEMAN OR KRUEGER COMMERCIAL GRADE GRILLS AND REGISTERS.
 - AIR CONDITIONING CONTROLS: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL BE PROGRAMMED WITH EXPECTED OCCUPIED TIMERS. AIR HANDLER FAN WILL BE PROGRAMMED TO RUN DURING ALL OCCUPIED TIMES. PRE-OCCUPANCY PURGE SHALL BE PROGRAMMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED. THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS:
 - 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING DAYS WITH 4 SEPARATE TIME/TEMPERATURE SETTINGS FOR A 24-HOUR PERIOD.
 - KEY BOARD LOCKOUT SWITCH.
 - PROGRAMMABLE DISPLAY.
 - 2-HOUR OVERRIDE MINIMUM.
 - STATUS INDICATED LED'S.
 - BATTERY BACK-UP.
 PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM OVERRIDE. WHITE RODGERS IF92-371. MOUNT TOP OF BOX @ 48" A.F.F. MAX. (WHERE SEALED, SETTINGS & ADJUSTMENTS CAN BE DONE BY SERVICE PERSONNEL ONLY.)
 - THERMAL INSULATION
 - ROOF INSULATION: R-19 WITH 22 GA. WIRE @ 16" O.C. & R-1 TOP OF PURLINS.
 - WALLS INSULATION: R-13 KRAFT FACED, (R-4 INSULATION OVER METAL FRAMED WALLS)
 - NON-CONCRETE FLOORS INSULATION: R-13
 - CONCRETE FLOORS INSULATION: N/A
 - FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 720.
 - FACTORY-MADE AIR DUCTS
 - FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. SECTION 601.0.
 - EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH C.M.C. SECTION 601.0 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE REQUIREMENTS OF C.M.C. SECTION 601.0.
 - DUCT SUPPORT FLEX DUCT TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAP @ MAX 4'-0" O.C. ATTACH TO RAFTER WITH TWO #8 S.M.S. @ EACH END.
 - SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAPS MINIMUM 2 PER PLENUM.
 - SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE CORNERS.
 - SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS. ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE WEIGHT OF THE DIFFUSER AND SUPPLY AIR BOX WITH TWO #8 S.M.S.
 - FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:
 - IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES;
 - AT THE CEILING AND FLOOR LEVELS;
 - AND AT 10-FOOT (3048mm) INTERVALS BOTH VERTICAL AND HORIZONTAL. REFERENCE 2019 CBC SECTION 718.
 - THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4. (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")
 - HVAC FILTER
 - FILTERS SHALL HAVE A "MINIMUM EFFICIENCY REPORTING VALUE" OF 13 WITH 2" DEPTH MIN. (MERV 13) AND SHALL BE INSTALLED PRIOR TO OCCUPANCY AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL, PER 2019 CEC SECTION 5.504.5.3
 - INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INCLUDING THE MERV RATING, PER 2019 CBC SECTION 5.504.5.3.1
 - ROOF MOUNTED HVAC
 - A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT. MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND DUCTS.
 - HVAC CONTROLS
 - THERMOSTAT (BY OTHERS) WILL BE PROGRAMMED WHEN THE MODULAR BUILDING IS PLACED ON A SITE TO ENSURE THE MINIMUM AIR RATE WILL BE SUPPLIED TO THE SPACE AT ALL USUALLY OCCUPIED TIMES AND PROGRAMMED TO PROVIDE A PRE-OCCUPANCY PURGE ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED PER ENERGY CODE 120.1(c)1.
 - UPON SITE PLACEMENT OR SITE CONSTRUCTION, THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR FOR THE PERMANENT MODULAR RELOCATABLE BUILDING AND DELIVERED TO THE OWNER.
 - THE CALIFORNIA ENERGY CODE 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 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 CONTROL ACCEPTANCE TEST TECHNICIAN (ATT). MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY 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'S CAN BE FOUND AT: [HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN](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 PROJECT INSPECTORS WILL BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

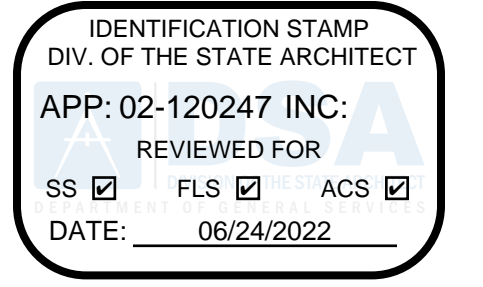
TABLE A - HEAVY DUTY GRID COMPONENTS					
MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE	RUNNER SPLICE DETAIL	ICBO ER REPORT
DONN/USG	DX-26	DX-424	DX-216	N/A	ICC-ESR-1222
ARMSTRONG	7301	XL7341	XL8320	N/A	ICC-ESR-1308
CHICAGO/ROCKFON	200.01	1274.01	1202.01	N/A	ICC-ESR-2631

NOTE: ALL GRID COMPONENTS SHALL BE BY THE SAME MANUFACTURER

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

HVAC SCHEDULES

HVAC NOTES

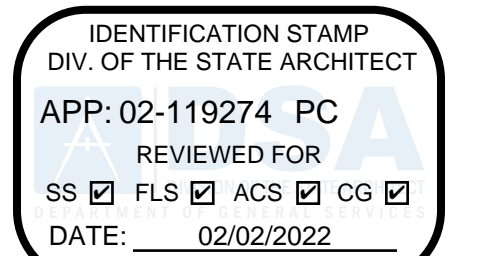


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PRE-CHECKED SET NAME
 12' x 40' STANDARD MODULAR BUILDING



SITE SPECIFIC PROJECT NAME



2019 CBC PRE-CHECK (PC) DOCUMENT
 (A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED)

MANUFACTURER PROFESSIONAL OF RECORD ON PC



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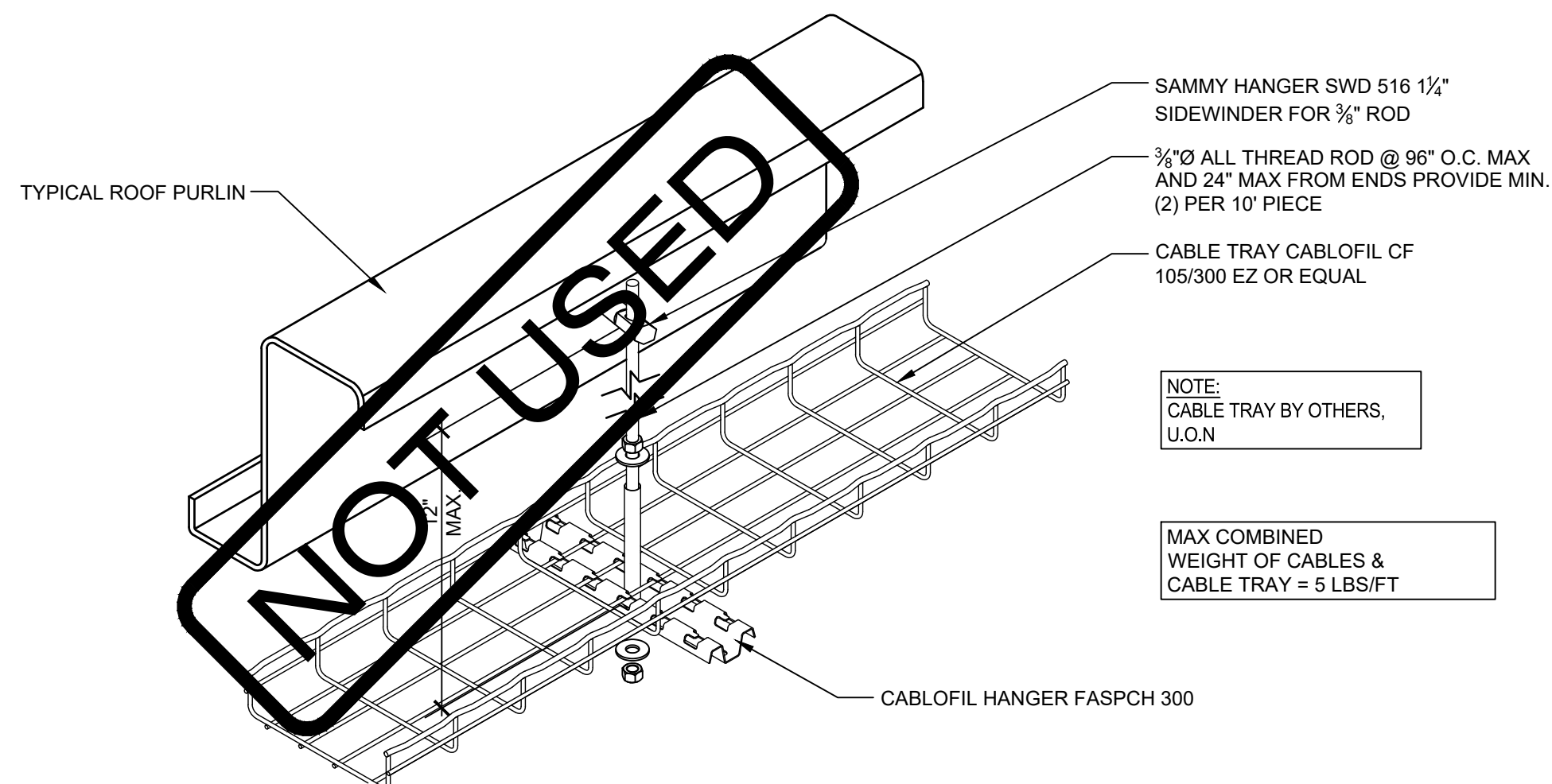
REVISIONS

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SHEET TITLE:
 CEILING & MECHANICAL NOTES, & SCHEDULES

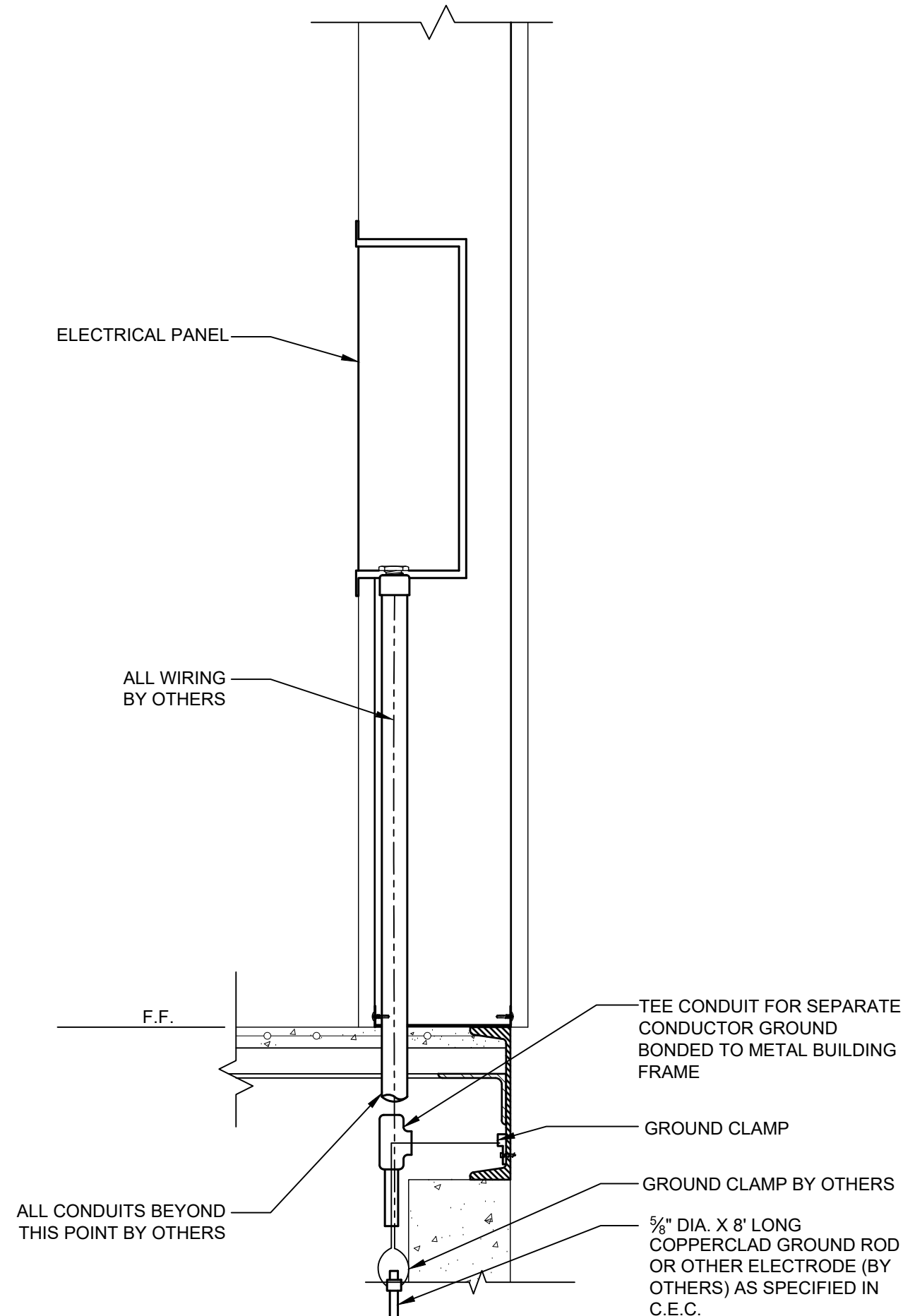
SHEET NUMBER:

M1.7



CABLE TRAY DETAIL

SCALE: N.T.S. 1



- SIZE OF CONDUCTORS SHALL COMPLY w/CEC.A
- BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC).
- ELECTRICAL BOND MODULES TOGETHER W/#8 CU @ MODLINE. BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1. INSPECTOR TO WITNESS GROUNDING TEST.

NOT USED

ELECTRICAL PANEL CONNECTION DETAIL - UNDERFLOOR OPTION

SCALE: 1-1/2" = 1'-0" 3

PANEL: A S/N:	PHASE: SINGLE	VOLTS: 120/240	BUSS: 125 AMP	MAIN: 100	LOCATION: INTERIOR	FEED: BOTTOM	MOUNTING: SURFACE								
OBJECT DESCRIPTION	WAT PER	NO. OF LCL	WATTS	BRK	WIRE SIZE	NO. OF WATTS	OBJECT DESCRIPTION								
INT. LIGHTS-LED	40	8	x	320	20	#12	2	#6	1	60	5760	x	/	5760	4 TON A/C HVAC UNIT
BLANK/SPARE				0			3	#6	1	60	5760	x	/	5760	4 TON A/C HVAC UNIT
EXT. LIGHTS	75	1	x	75	20	#12	5				0			*	FACE
REC UNCONTROLLED	180	1	x	180	20	#12	7				0			*	FUTURE SOLAR ELEC
REC UNCONTROLLED	180	1	x	180	20	#12	9				0				BLANK/SPARE
REC GFCI	180	1	x	180	20	#12	11				0				BLANK/SPARE
LEG TOTALS			575	60				5760	5760	LEG TOTALS					
LCL=3113.75+12455=15568.75						LEG BALANCE = 1.7%			TOTAL AMPS: 64.87						

NOTE:
FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY (NFPA 72 10.6.5.2)

LOAD PANEL CALCULATIONS

FIRE ALARM SYSTEM

- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
- INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY 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.
- JUNCTION BOXES - GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
- COVERS - INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2016 EDITION OF NFPA 72.
- THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
- 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 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER 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 (NFPA 72, SEC. 18.4.1).
- 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 MARSHAL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).
- AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 CHAPTER 26 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER ULFV OR ULFS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 301. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY.

NOTE:
SEE SHEET M1.0 FOR ALL BRACING AND ANCHORAGE NOTES.

GENERAL NOTES

- GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
- PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
- PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.
- ALL PANELS, SWITCHES, DISCONNECTS, BREAKERS, METERS, AND OTHER ELECTRICAL ELEMENTS SHALL BE PLACED ABOVE THE ELEVATION REQUIRED BY ASCE 24-14, SECTION 7.2.
- WHERE FLEXIBLE CONDUIT IS PASSING BETWEEN BUILDING SEPARATION JOINTS, PROVIDE SUFFICIENT LENGTH OF CONDUIT TO PERMIT DIFFERENTIAL DISPLACEMENTS BETWEEN BUILDINGS IN COMPLIANCE WITH ASCE 7 SECTION 13.6.9. ADDITIONAL CONDUIT & JOINT DETAIL SHALL BE PROVIDED BY OTHERS.

FIXTURE NOTES:

- ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
- LUMINARIES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
- FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.
- ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
- MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
- ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
- 2X4 FLUORESCENT FIXTURES SHALL HAVE A STEEL FRAME. LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-2, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE 0.125 INCHES.
- FLUORESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT. CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACEABLE FROM INSIDE THE FIXTURE.
- CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET.
 - CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 120V 60 CYCLE
 - CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPARABLE HANGING CLIP & APPD RECEIPT. THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING.
 - IF 90 DEGREES WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY SHALL BE PROVIDED ON THE DRAWING.

GENERAL NOTES

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APP: 02-120247 INC:
REVIEWED FOR
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AMS
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
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PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

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MANUFACTURER PROFESSIONAL OF RECORD ON PC

REGISTERED ARCHITECT
PATRICK CARROLL
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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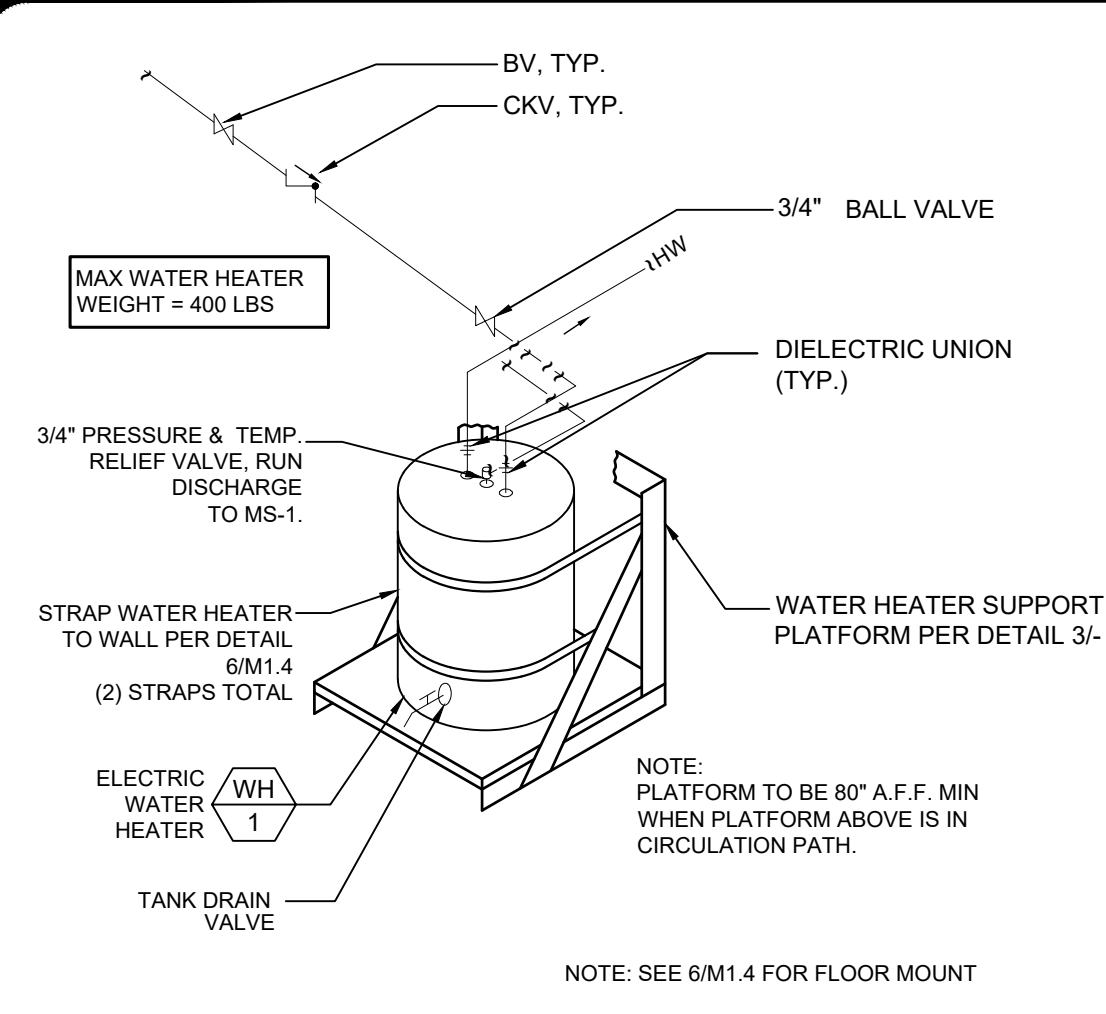
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PROJECT NO: XXXX-20

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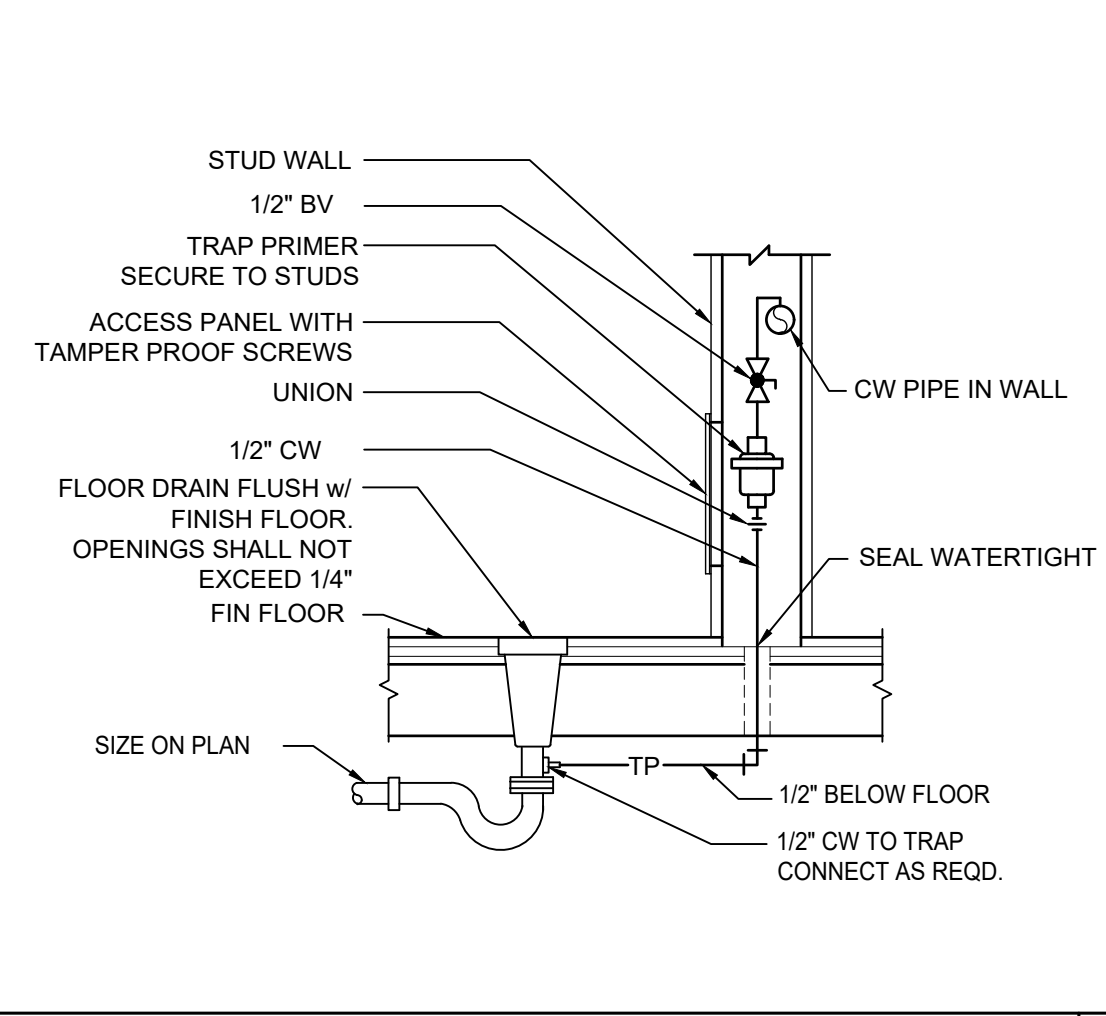
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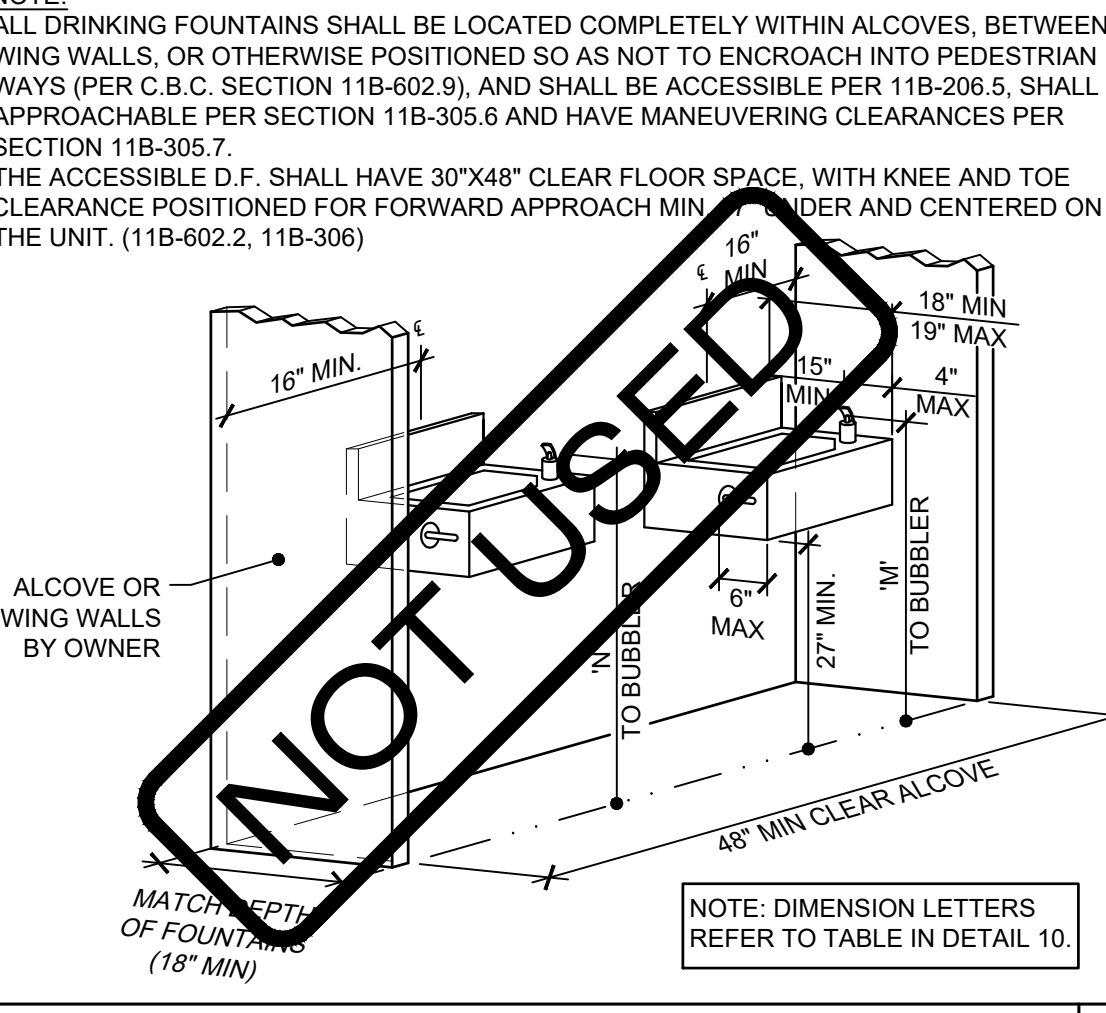
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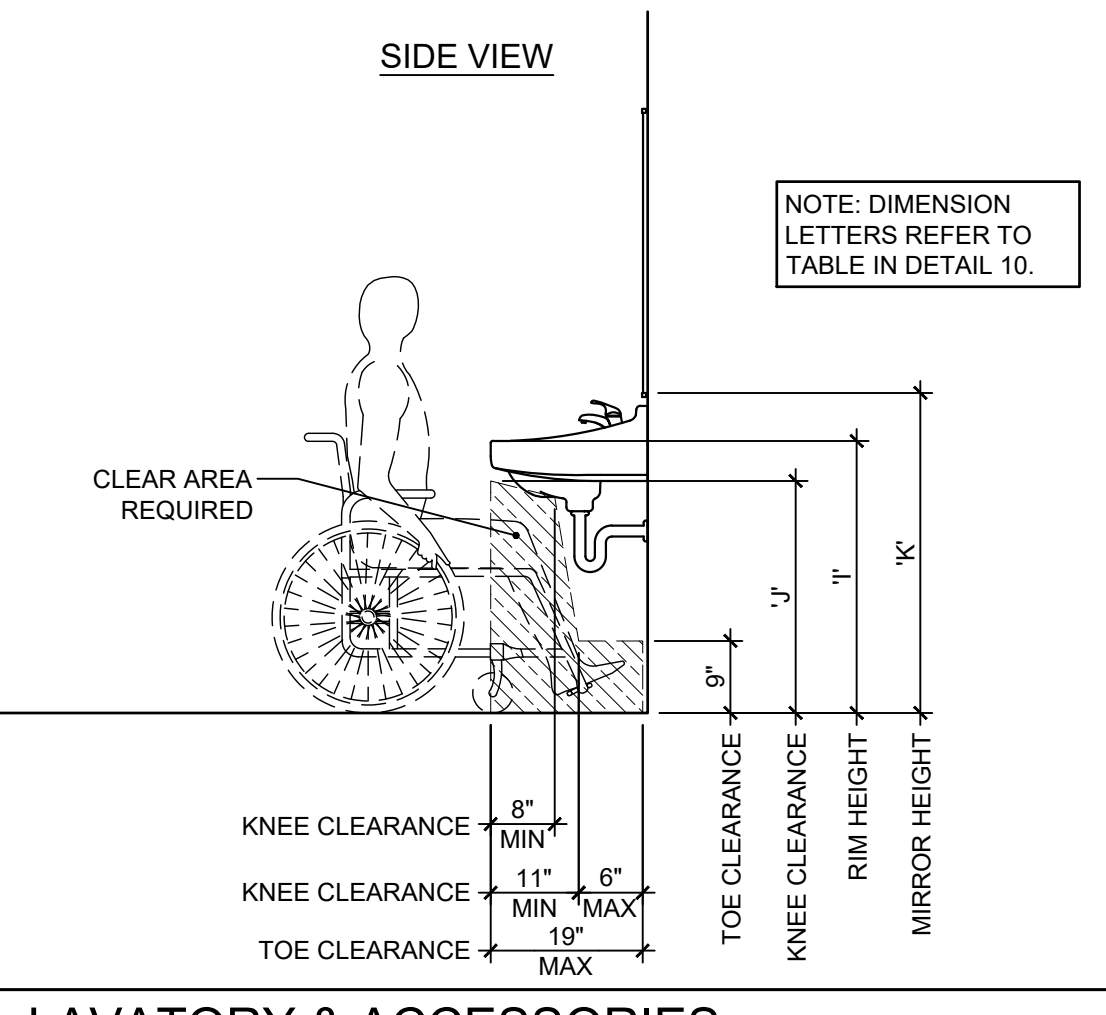
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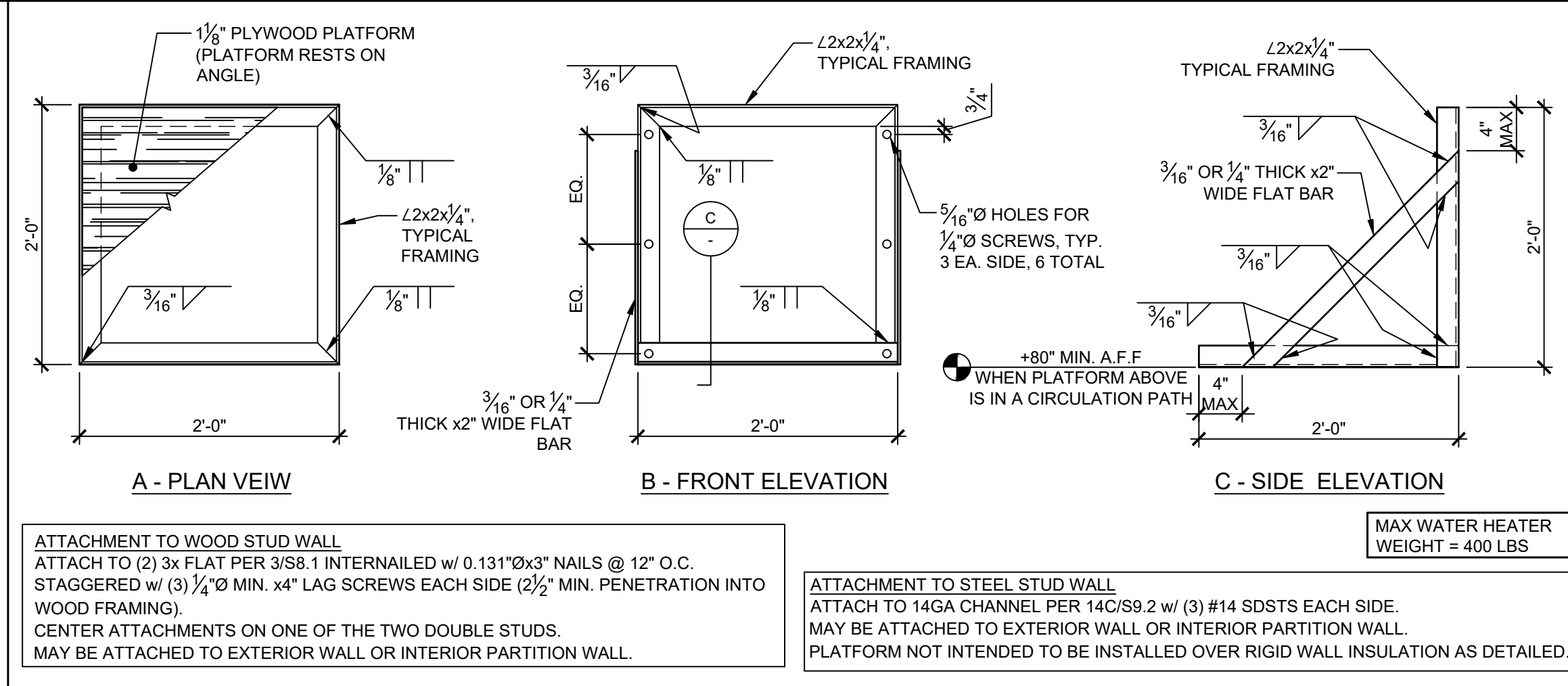
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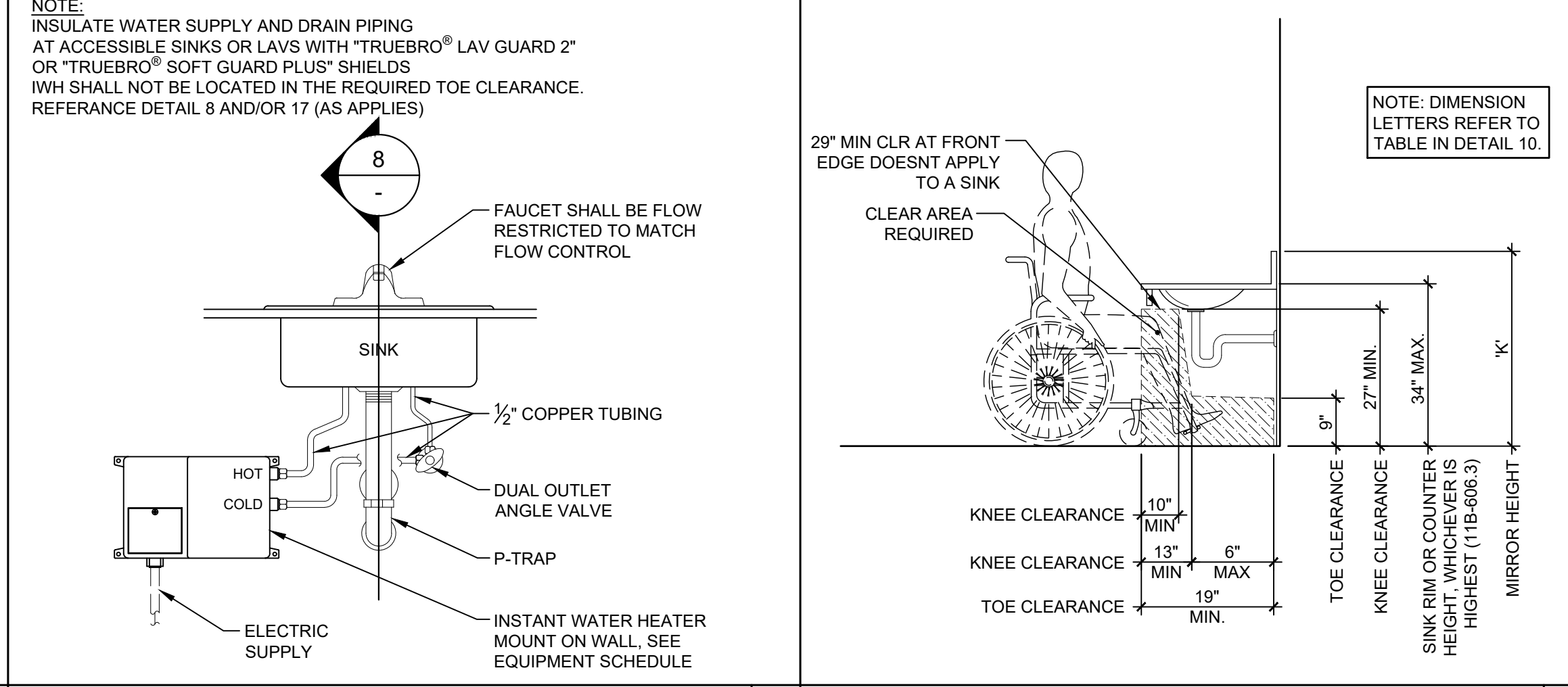
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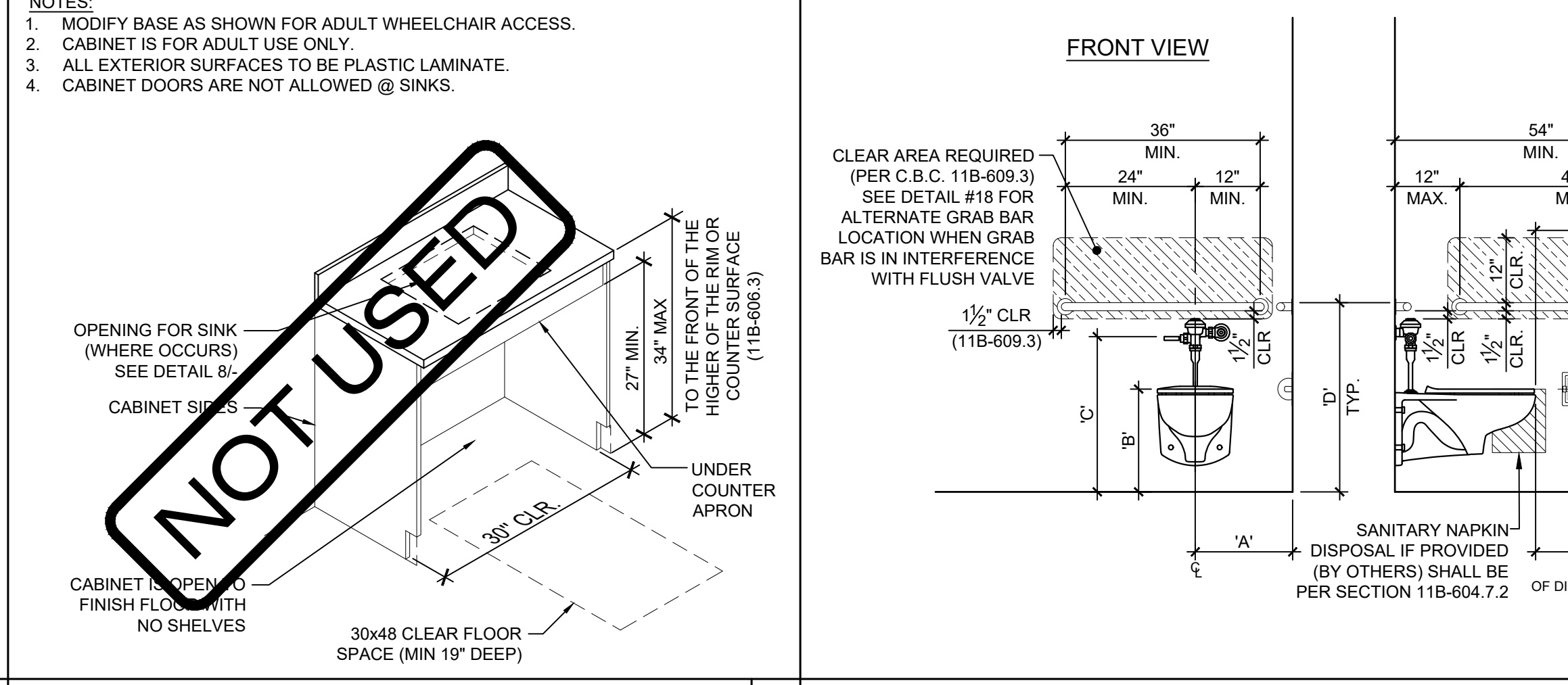
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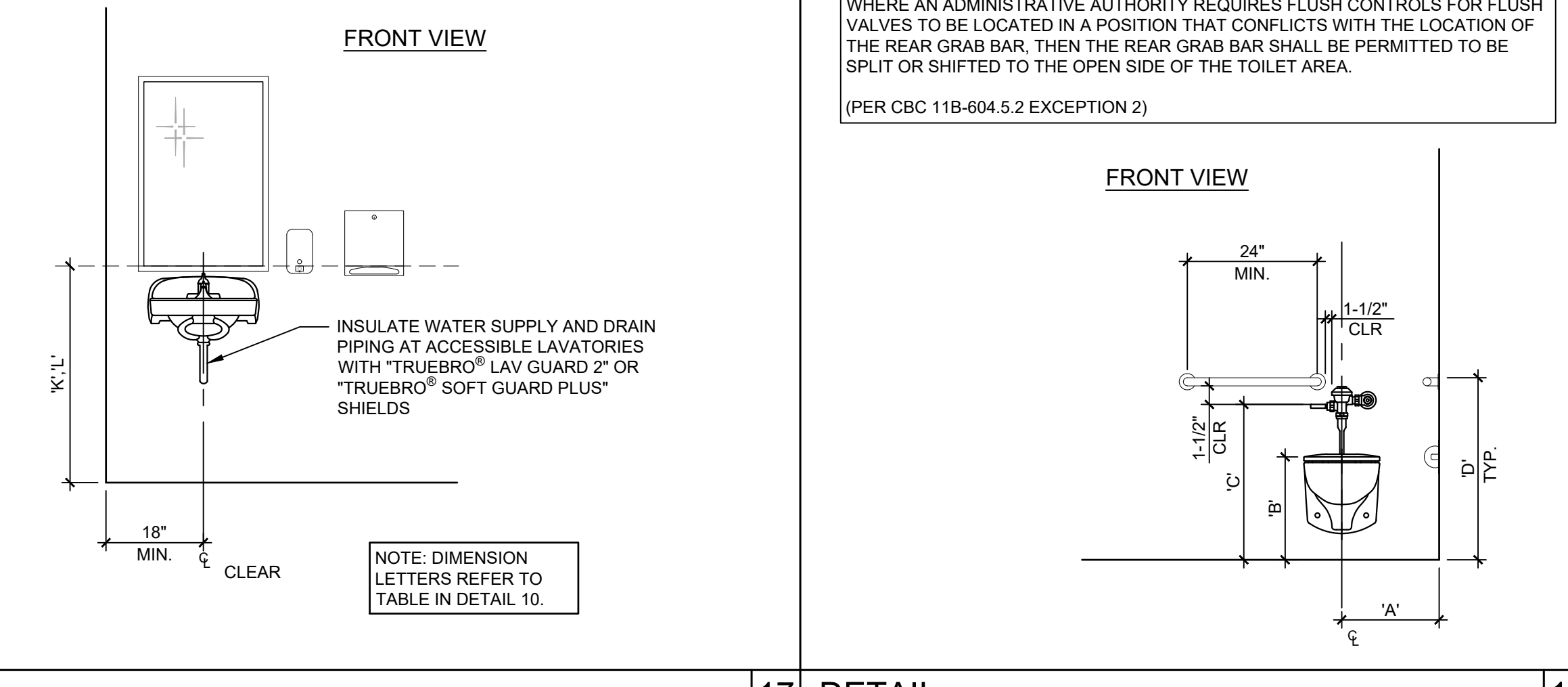
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INSTANT WATER HEATER DETAIL NOT TO SCALE 7



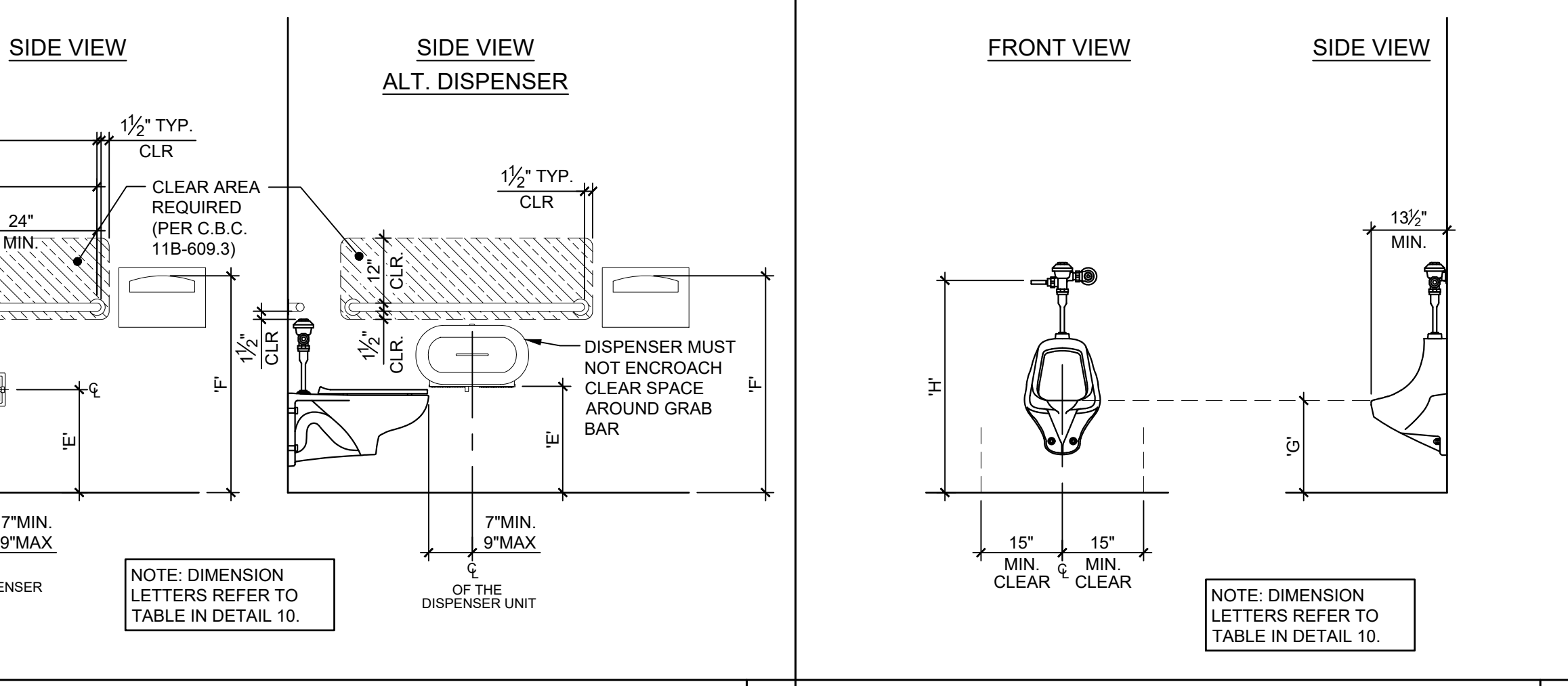
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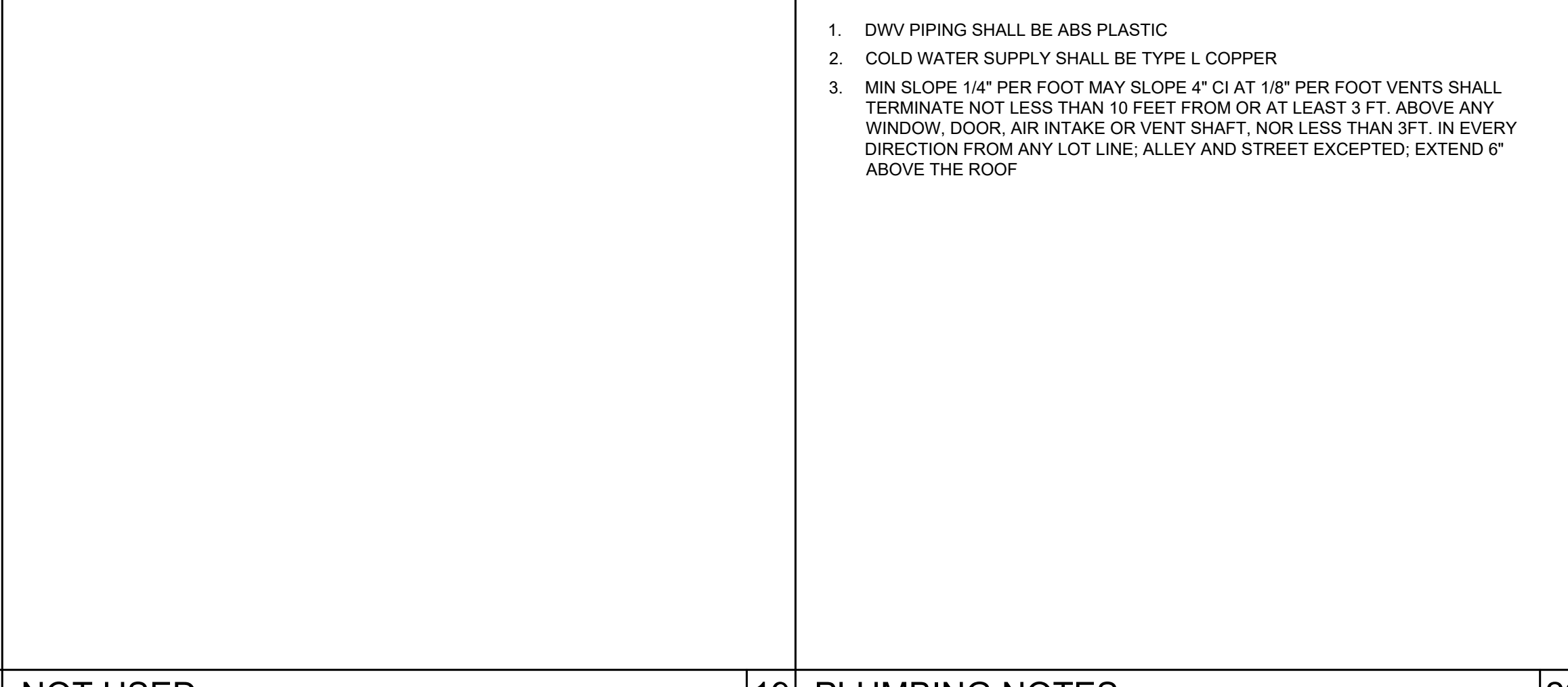
ACCESSIBLE CABINET DETAIL NOT TO SCALE 12

HEIGHTS FOR ACCESSIBLE FEATURES IN TOILET FACILITIES					
FIXTURE & MEASUREMENT POINT	PRIMARY USERS				NOTES
	AGES 3-4	AGES 5-8	AGES 9-12	AGES 13-ADULT	
A TOILET, CENTERLINE FROM FACE OF WALL	12\"/>				
B TOILET, TOP OF SEAT HEIGHT	11\"/>				
C TOILET, TOP OF FLUSH CONTROLS	36\"/>				
D GRAB BAR, TOP OF BAR	18\"/>				
E TOILET PAPER DISPENSER, HEIGHT TO OUTLET	14\"/>				
F TOILET SEAT COVER, HEIGHT TO TOP OF OUTLET	24\"/>				
G URINAL, LIP HEIGHT	12\"/>				
H URINAL, HEIGHT OF FLUSH HANDLE	36\"/>				
I LAVATORY, HEIGHT TO HIGHEST POINT AT FRONT OF LAV. OR COUNTER	24\"/>				
J LAVATORY, VERTICAL KNEE CLEARANCE	24\"/>				
K MIRROR (ABOVE LAVATORY OR COUNTERTOP), LOWEST POINT OF REFLECTIVE SURFACE	24\"/>				
L DISPENSERS, DRYERS, HEIGHT TO TOP OF OUTLET, HANDLE OR OPERATING MECHANISM (WHICHEVER IS HIGHEST)	24\"/>				
M LO DRINKING FOUNTAIN, HEIGHT TO BUBBLER	24\"/>				
N HI DRINKING FOUNTAIN, HEIGHT TO BUBBLER	same as ADULT	same as ADULT	same as ADULT	38\"/>	

ACCESSIBLE HEIGHTS TABLE NOT TO SCALE 10



ACCESSIBLE TOILET AND ACCESSORIES SCALE: 1/2\"/>



PLUMBING NOTES SCALE: 1/2\"/>

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12' x 40' STANDARD MODULAR BUILDING

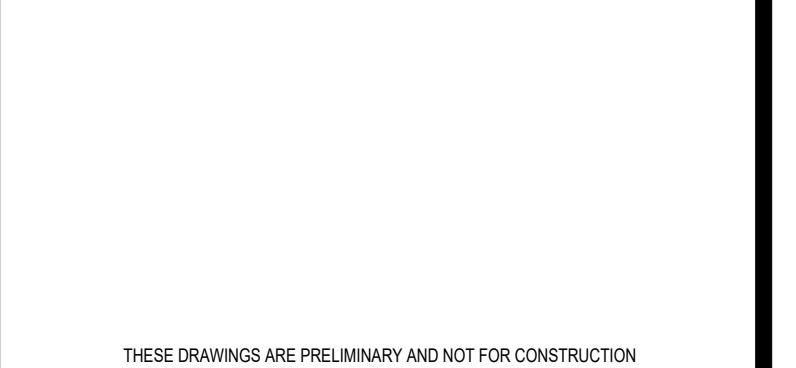
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MANUFACTURER PROFESSIONAL OF RECORD ON PC
Patricia Cantu
LICENSED ARCHITECT
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA



ACCESSIBLE URINAL SCALE: 1/2\"/>

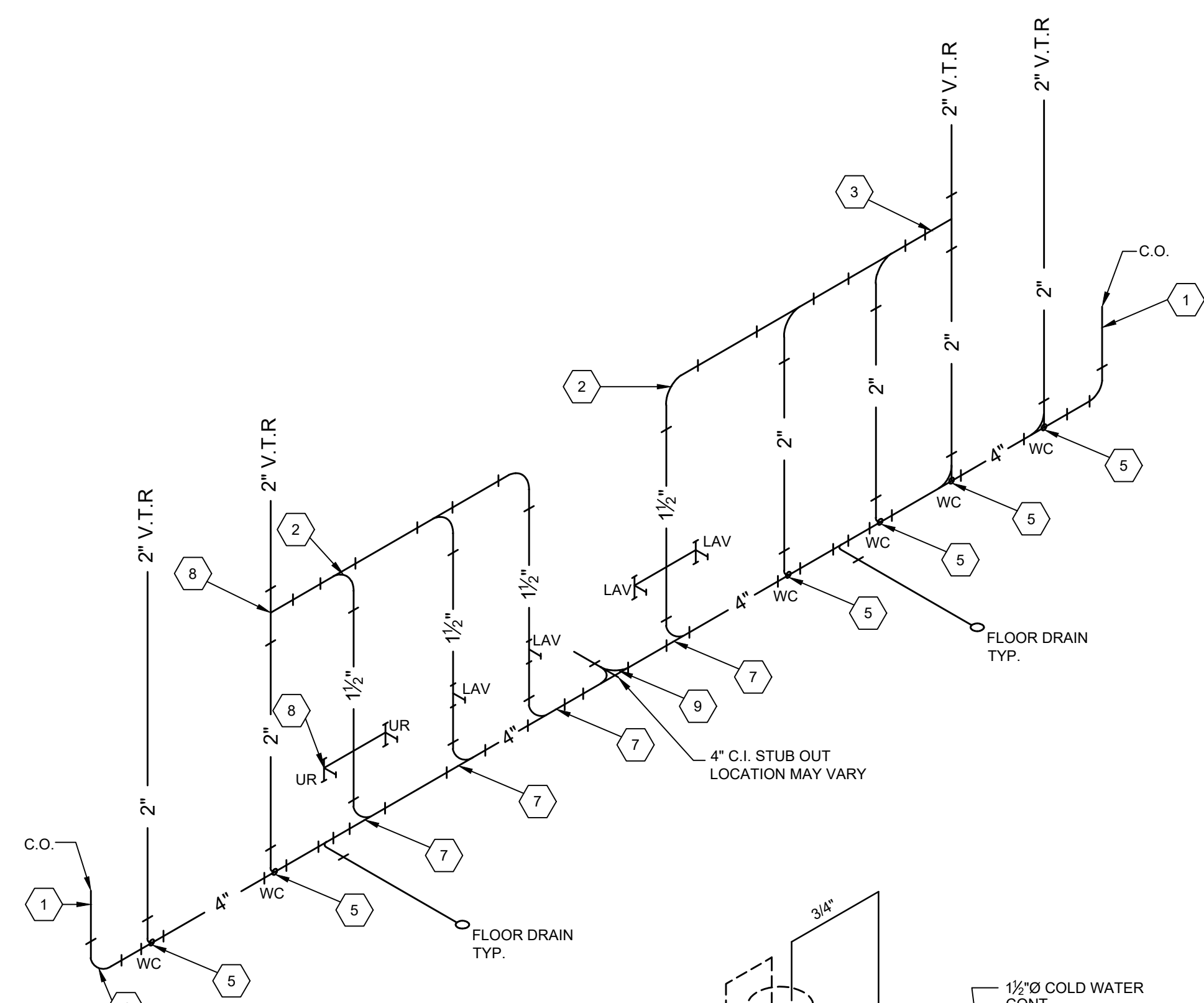
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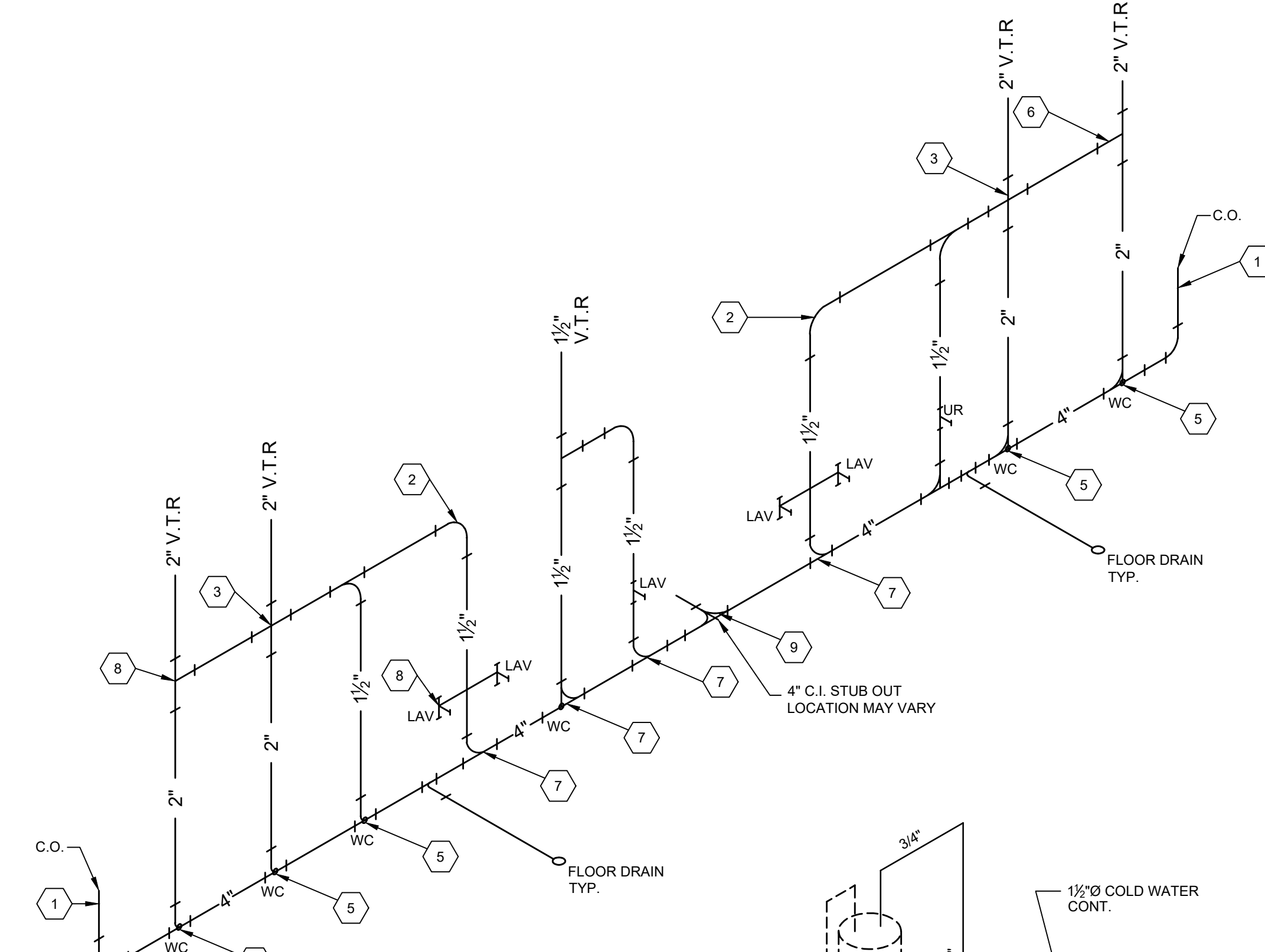
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PLUMBING DETAILS & ACCESSIBLE DETAILS
SHEET NUMBER:
P2.0

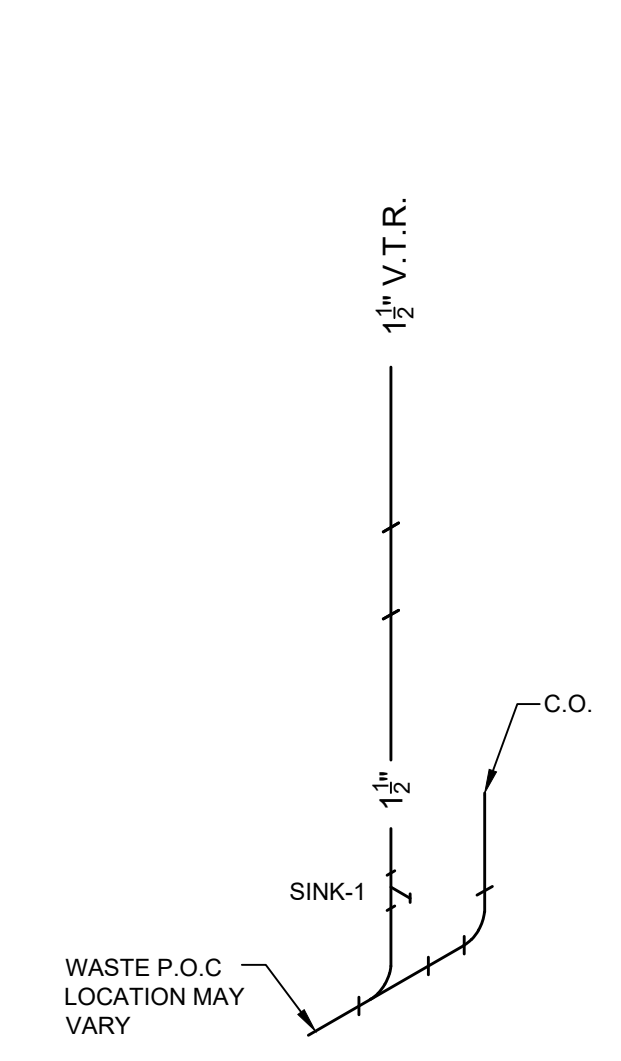
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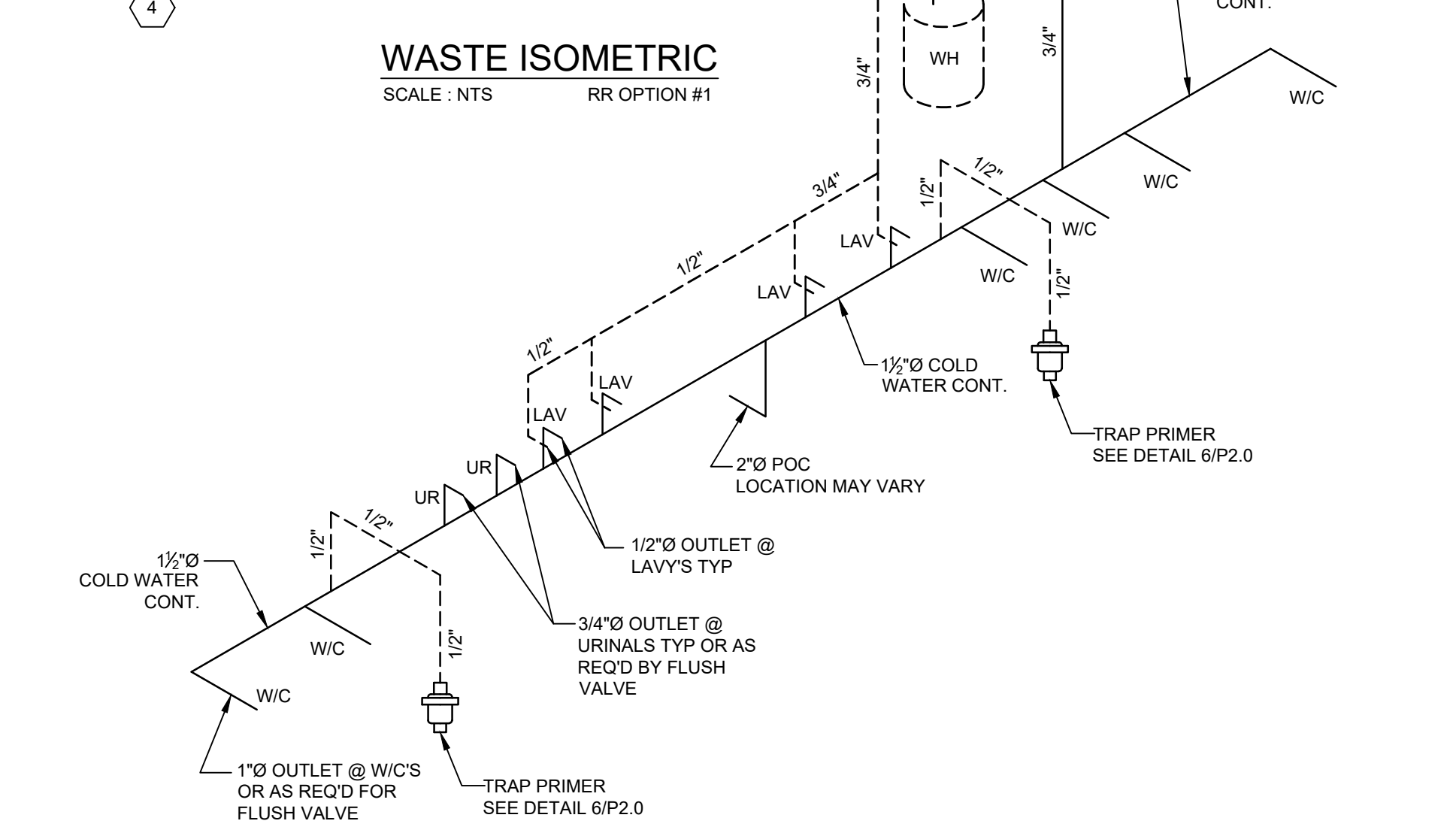
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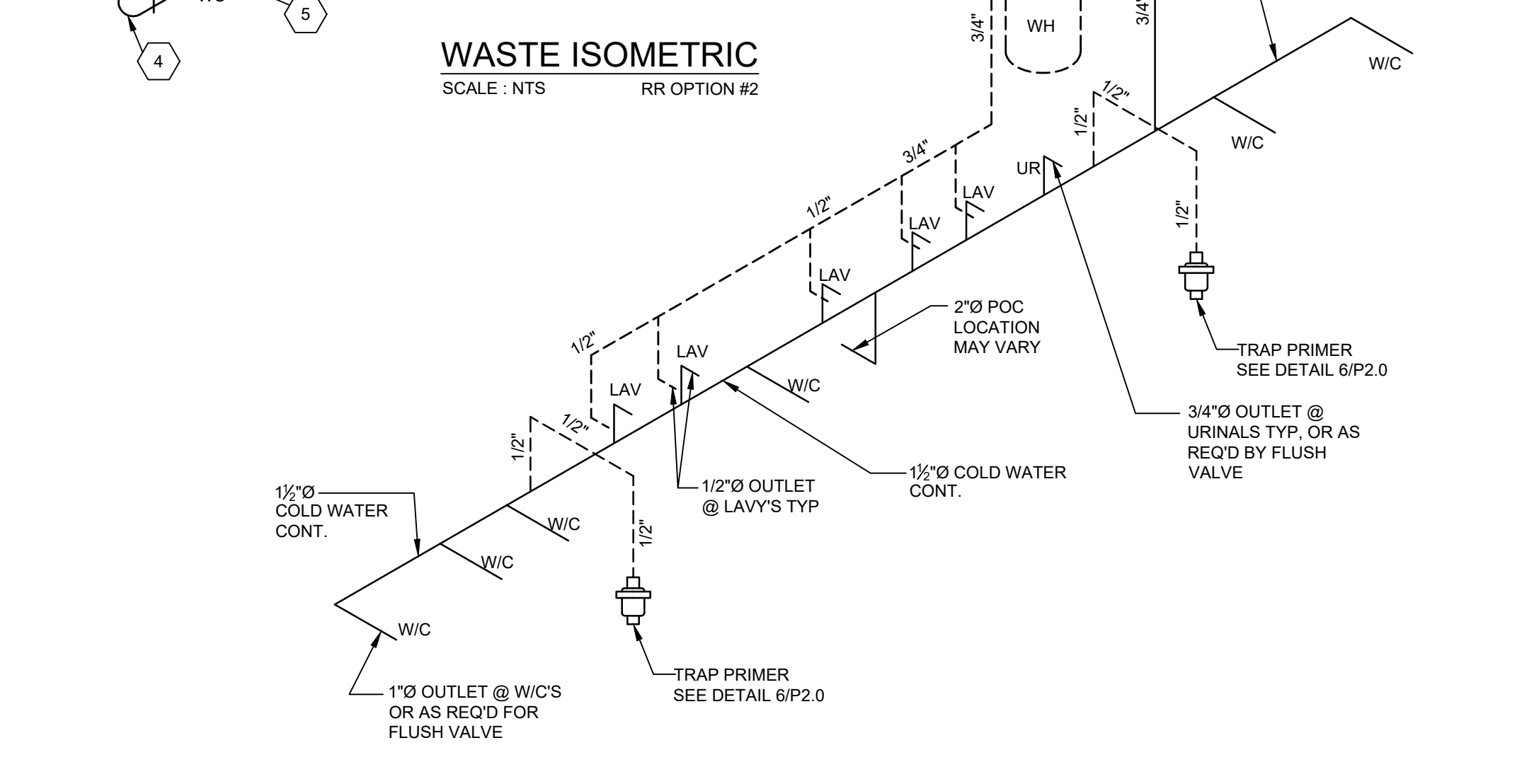
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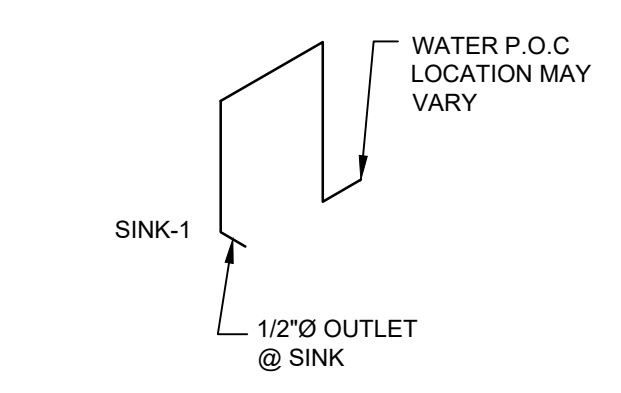
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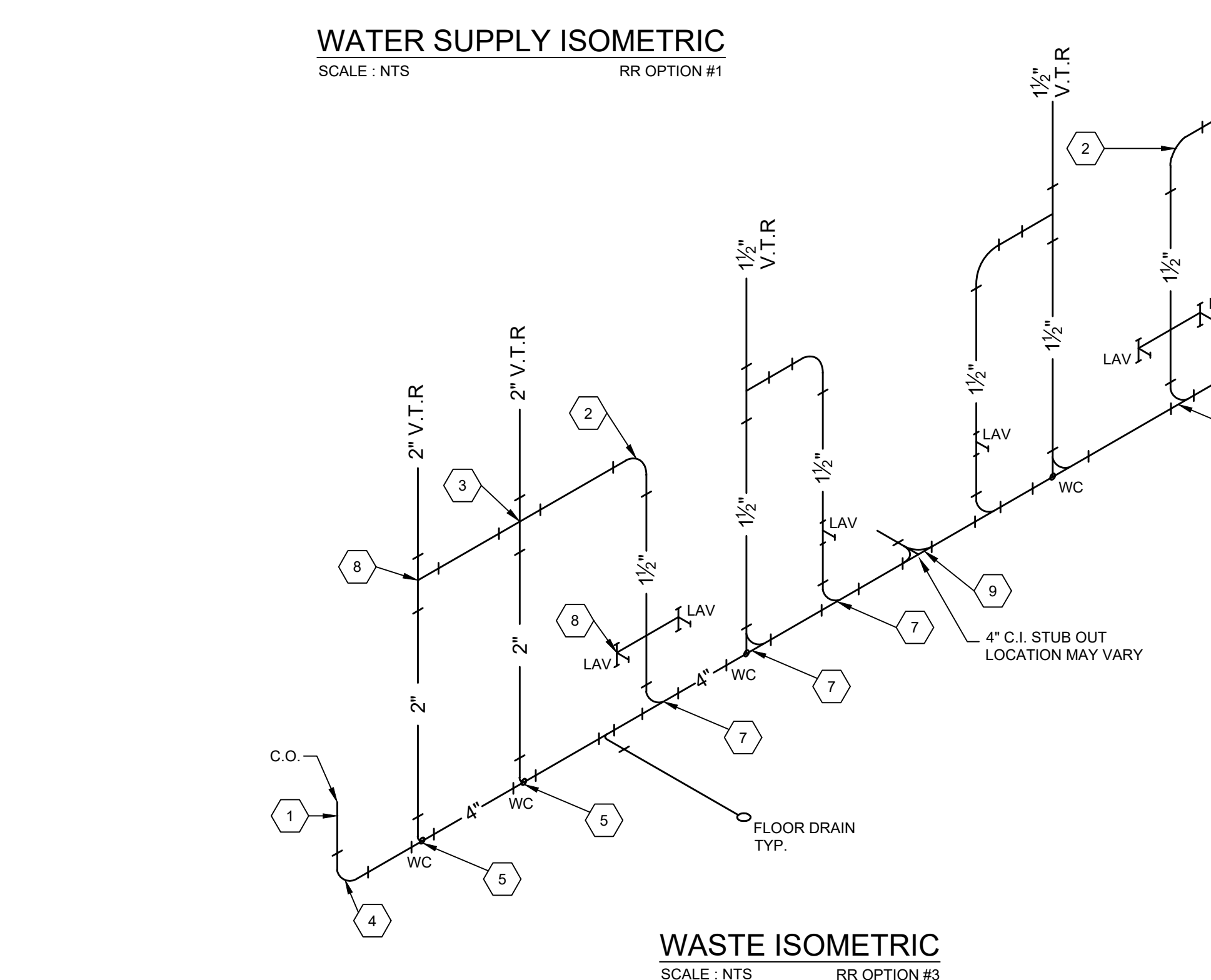
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SCALE : NTS RR OPTION #1



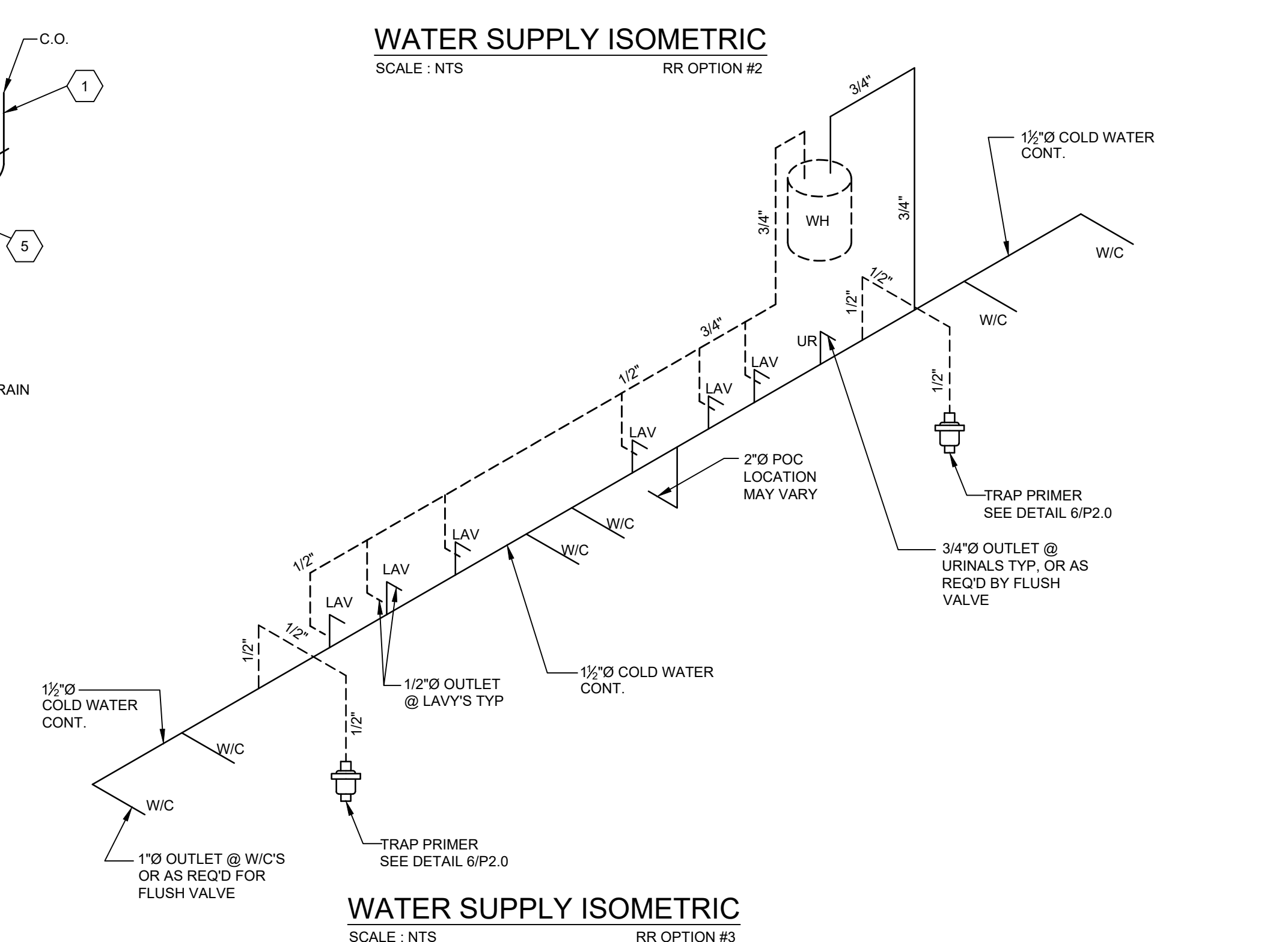
WATER SUPPLY ISOMETRIC
SCALE : NTS RR OPTION #2



WATER SUPPLY ISOMETRIC
SCALE : NTS CLASSROOM SINK OPTION



WASTE ISOMETRIC
SCALE : NTS RR OPTION #3



WATER SUPPLY ISOMETRIC
SCALE : NTS RR OPTION #3

# KEY NOTES	
1	4" CLEAN OUT
2	VENT 90
3	VENT CROSS
4	4" QUARTER BEND
5	SMITH #0600 CARRIER
6	2" SANITARY TAP TEE
7	4x4x2 COMBINATION WYE 1/8 BEND
8	2x2x1-1/2 SANITARY TEE
9	4" DOUBLE COMBINATION

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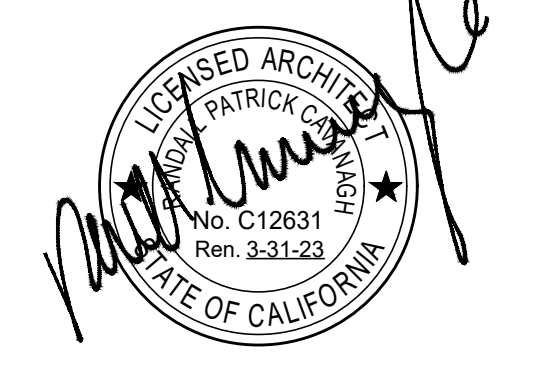
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PLUMBING ISOMETRICS DRAWINGS

SHEET NUMBER:

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