

SOLAR TESTING NOTES:
FIELD TESTS ARE REQUIRED TO VERIFY PROPER INSTALLATION OF THE SEAM CONNECTING DEVICE. AFTER ALL THE CONNECTING DEVICES HAVE BEEN INSTALLED, TEST A MINIMUM OF 20 CONSECUTIVE DEVICES TO TWICE THE MAXIMUM ALLOWABLE STRESS DESIGN (ASD) WIND UPLIFT LOAD TRIBUTARY TO THE CONNECTING DEVICE BASED ON THE WIND PRESSURE OF 25 PSF. IF THERE IS NO FAILURE IN 20 CONSECUTIVE TESTS, TEST 10 PERCENT OF THE REMAINING INSTALLED CONNECTING DEVICES. IF FAILURE OCCURS BEFORE 20 CONSECUTIVE SUCCESSFUL TESTS ARE COMPLETED, THEN CONTINUE AT A RATE OF 10 PERCENT ON THE REMAINING INSTALLED DEVICES. ILLUSTRATES THIS TESTING.

NOTES:
The Nondestructive Testing Inspection is TBD by Architect of Record (AOR)/DSA per project specific requirements.

Ultrasonic Testing (UT) shall be performed on 100% of the complete joint penetration (CJP) groove welds when the columns shown on sheets S5.1-S5.8 have a thickness of $\frac{3}{8}$ " or greater. Magnetic particle testing shall be performed on 25% of all beam to column CJP groove welds.

APPENDIX D:
PC TESTS & INSPECTIONS GUIDELINES FOR PERMANENT MODULAR

USER NOTE: The purpose of this guide is to aid in the proper completion of form DSA-103 for this pre-check (PC) design. Check the applicable tests and/or special inspections on the form DSA-103 using the guideline. Though is not shown in this guideline, Items exempt from testing or special inspection may be noted at the end of the form as in the APPENDIX to DSA-103.

A separate Example form DSA-103 must be included on the PC drawings for each lettered column that is applicable to your PC.

For assistance or questions about types of construction not covered in this guideline, contact your DSA Regional Office.

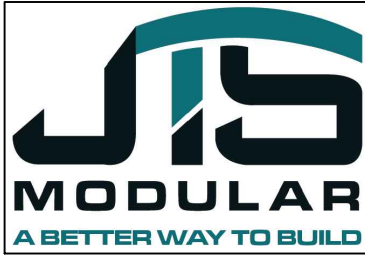
Additional information for PC designs only, not to be added to DSA-103		
	STOCKPILE	CONSTRUCTION OF PERMANENT MODULAR OR RELOCATABLE BUILDING
INSPECTOR CLASS (MINIMUM REQUIREMENTS)	RBIP OR CLASS 1	In plant: RBIP or Class1 Site: Class 1
SELECTION OF THE PROJECT INSPECTOR AND TESTING/SPECIAL INSPECTION AGENCY	By the owner (not manufacturer) and approved by DSA, A/E of Record and structural engineer	By the School district and approved by DSA and A/E responsible for in-plant construction observation
COST OF THE PROJECT INSPECTION (CAC, SECTION 4-333 [b]) AND TESTING/SPECIAL INSPECTION AGENCY (CAC, SECTION 4-333[b])	By the owner (not manufacturer)	By the School District

TESTS or INSPECTIONS (as listed on form DSA - 103-22)			Permanent Modular Steel Moment Frame Building Project X INDICATES TEST OR INSPECTION TO BE DONE --- INDICATES NOT APPLICABLE	
			STOCKPILE	CONSTRUCTION OF PERMANENT MODULAR
MATERIAL TYPE	DSA 103 ITEM #	DESCRIPTION		
SOILS	General	S1a	---	x
		·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 design bearing capacity.		
SOILS (Cont.)	COMPACTION AND FILL	S2a	---	x
		Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.		
		S2b	---	x
		Compaction testing		
CONCRETE	CAST IN PLACE CONCRETE	C1a	---	x
		Verify use of required design mix		
		C1b	---	x
		Identify, sample, and test reinforcing steel.		
		C1c	---	x
		During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine temperature of the concrete.		
		C1d	---	x
		Test concrete (f'c)		
		C1e	---	x
		Batch plant inspection. ● Continuous ○ Periodic		
	POST-INSTALLED ANCHORS	C5a	---	x
		Inspect installation of post-installed anchors.		
		C5b	---	x
		Test post-installed anchors.		
MASONRY	VENEER OR GLASS BLOCK PARTITIONS	M2a	---	x
		Verify proportions of siteprepared mortar and grout and/or verify certification of premixed mortar.		
		M2b	---	x
		inspect placement of units and construction of mortar joints		
		M2c	---	x
		inspect placement of wire, connectors and anchors.		
		M2d	---	x
		inspect type, size, and location of anchors and all other items to be embedded in masonry veneer including details of anchorage of masonry to veneer baking, frames and other construction.		
		M2e	---	x
		Verify preparation, construction, and protection of masonry during cold weather (temperature below 40F) or hot weather (above 90F)		
		M2f	---	x
		Test veneer bond strength		

TESTS or INSPECTIONS (as listed on form DSA - 103-19)			Permanent Modular Steel Moment Frame Building Project X INDICATES TEST OR INSPECTION TO BE DONE --- INDICATES NOT APPLICABLE	
			STOCKPILE	CONSTRUCTION OF PERMANENT MODULAR
MATERIAL TYPE	DSA 103 ITEM #	DESCRIPTION		
STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES	S/A1a	·Verify identification of all materials and: ·Mill certificates indicate material properties that comply with requirements. ·Material sizes, types and grades comply with requirements.	x	x
	S/A1b	Test unidentified materials.	x	x
	S/A1c	Examine seam welds of HSS shapes.	x	x
	S/A1d	Verify and Document Steel Fabrication per DSA - Approved Construction Documents	x	x
WELDING	S/A3a	Verify weld filler material identification markings per AWS designation listed on DSA- approved documents and the WPS.	x	x
	S/A3b	Verify weld filler material manufacturers certificate of compliance.	x	x
	S/A3c	Verify WPS, welder qualifications and equipment.	x	x
SHOP WELDING (IN ADDITION TO SECTION S/A3)	S/A4a	Inspect groove welds, multi-pass fillet welds, single-pass fillet welds > 5/16", plug and slot welds.	x	x
	S/A4b	Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	x	x
	S/A4d*	Verification of reinforcing steel weldability other than ASTM A706.	x	x
	S/A4e*	Inspect welding of reinforcing steel.	x	x
	S/A5a	Inspect groove welds, multi-pass fillet welds, single-pass fillet welds > 5/16", plug and slot welds	---	x
	S/A5b	Inspect single-pass fillet welds ≤ 5/16.	---	x
FIELD WELDING (IN ADDITION TO SECTION S/A3)	S/A5c	Inspect end-welded studs (ASTM A-108) installation (including bend test)	---	x
	S/A5e	Inspect welding of structural cold formed steel	---	x
NONDESTRUCTIVE TESTING	S/A6a	Ultrasonic	x	x
	S/A6b	Magnetic Particle	x	x
OTHER STEEL	23a	Shop welding - inspect end-welding of studs (ASTM A-108) Installation (including bend test)	x	x
	23c	Shop welding - inspect welding of cold-formed steel Periodic/Special Inspector.	x	x
OTHER	PHOTOVOLTAIC SYSTEMS	23d	x	x
		TESTING OF PHOTOVOLTAIC PANEL CONNECTIONS PER NOTES ON SHEET T1.01		

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124742 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 04/10/2025

APPROVALS
FILE # APPLICATION #



COMMERCIAL
INSTITUTIONAL
AND
RESIDENTIAL
MODULAR
BUILDINGS
DESIGN & PLANNING
7001 Mc Divitt Dr.
Bakersfield, CA 93313
Office: (661) 835-9270
Fax: (661) 847-1007
www.jtsmodular.com

STRUCTURAL ENGINEER OF RECORD



Structural Engineering, Inc.
11305 Rancho Demand RD., Suite 121
San Diego, CA 92127
PHONE: (609) 679-1874
FAX: (609) 679-1975



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120983 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CG ☒
DATE: 10/10/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
DSA APPLICATION NUMBER
02-120983
A separate project application
for construction is required

MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
TEST & INSPECTION GUIDELINES

DSA APP NO.

PROJECT NO.

06-0142

DRAWING

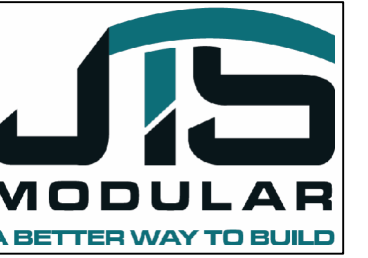
T1.01

MARK	DESCRIPTION	MFR.	MODEL NO.	REMARKS
1	MIRROR (18" X 30")	BOBRICK	B-290	SURFACE MTD
2	GRAB BAR	BOBRICK	B-6806 SERIES	36" LONG
3	GRAB BAR	BOBRICK	B-6806 SERIES	42" LONG
4	HAND DRYER (RECESSED)	PINNACLE	PDC-R10	4" MAX PROJ.
5	MOP SINK	FLORSTONE	MSB-2424	
6	MULTI-ROLL TISSUE DISPENSER	BOBRICK	B-3888	RECESSED
7	MULTI-ROLL TISSUE DISPENSER	BOBRICK	B-2268	SURFACE MTD.
8	PAPER TOWEL DISPENSER	BOBRICK	B-262	4" MAX PROJ.
9	SEAT COVER DISPENSER	BOBRICK	B-221	
10	SOAP DISPENSER	BOBRICK	B-4112	SURFACE MTD.

NOTE: FOR MOUNTING HEIGHTS & REQUIREMENTS SEE DTL 4/A-2.20 AND 6/A-2.20

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LE #	APPLICATION #
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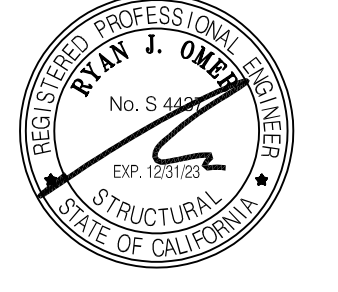


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www.jtsmodular.com

STRUCTURAL ENGINEER OF RECORD

ORION

Structural Engineering, Inc.
11305 Rancho Bernard RD., Suite 121
San Diego, CA 92127
PHONE (858) 679-1974
FAX (858) 679 1975



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SS ☒ FLS ☒ ACS ☒ CG ☒
DATE: 10/10/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
OSA APPLICATION NUMBER
02-120983
A separate project application
for construction is required

MODEL NG	Taft Primary Elem School
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SLAB ON GRADE BUILDING
MODULAR
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
ENLARGED FLOOR PLANS

SA APP NO.

PROJECT NO. _____

RAWING

A-1.17



\\JMS\02-JTS Design Standards\2023 PC Drawings\SOG-40\CAO FILES\PLANS SOG 40 2020.dwg Sep 11 2023 4:57pm

DOOR NO.	DOOR			FRAME		RATING	HDWR	DETAILS	
	TYPE	SIZE (EACH LEAF)	MAT'L	TYPE	MAT'L			L&R/JAMB	HEAD
1	E	3'-0" X 7'-0"	HM	1	HM	--	4	13/A-6.00	8/A-6.00
2	A	3'-0" X 7'-0"	HM	1	HM	--	3	13/A-6.00	8/A-6.00
3	E	3'-0" X 7'-0"	HM	1	HM	--	4	13/A-6.00	8/A-6.00
4	E	3'-0" X 7'-0"	HM	1	HM	--	4	13/A-6.00	8/A-6.00
5	E	3'-0" X 7'-0"	HM	1	HM	--	4	13/A-6.00	8/A-6.00
6	E	3'-0" X 7'-0"	HM	1	HM	--	4	13/A-6.00	8/A-6.00
7	E	3'-0" X 7'-0"	HM	1	HM	--	5	13/A-6.00	8/A-6.00
8	A	3'-0" X 7'-0"	HM	1	HM	--	3	13/A-6.00	8/A-6.00
9	E	3'-0" X 7'-0"	HM	1	HM	--	4	13/A-6.00	8/A-6.00
101	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
102A	B	3'-0" X 7'-0"	HM	1	HM	--	2	13/A-6.00	8/A-6.00
102B	B	3'-0" X 7'-0"	HM	1	HM	--	2	13/A-6.00	8/A-6.00
103	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
104	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
105	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
106	B	3'-0" X 7'-0"	HM	1	HM	--	2	13/A-6.00	8/A-6.00
107	J	3'-0" X 7'-0"	HM	1	HM	--	9	13/A-6.00	8/A-6.00
108	J	3'-0" X 7'-0"	SC	2	TM	--	9	15/A-6.00	15/A-6.00
109A	H	3'-0" X 7'-0"	HM	1	HM	--	6	13/A-6.00	8/A-6.00
109B	H	3'-0" X 7'-0"	HM	1	HM	--	6	13/A-6.00	8/A-6.00
109C	C	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
110	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
111	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
112	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
113	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
114	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
115A	B	3'-0" X 7'-0"	HM	1	HM	--	2	13/A-6.00	8/A-6.00
115B	B	3'-0" X 7'-0"	HM	1	HM	--	2	13/A-6.00	8/A-6.00
116	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
117	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
118	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
119	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
120	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
121	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
122	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
123A	B	3'-0" X 7'-0"	HM	1	HM	--	2	13/A-6.00	8/A-6.00
123B	B	3'-0" X 7'-0"	HM	1	HM	--	2	13/A-6.00	8/A-6.00
124	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
125	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
126	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
127	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
128	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
129A	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
129B	J	3'-0" X 7'-0"	SC	1	TM	--	9	15/A-6.00	15/A-6.00
130	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
131	B	3'-0" X 7'-0"	HM	1	HM	--	1	13/A-6.00	8/A-6.00
132	E	3'-0" X 7'-0"	HM	1	HM	--	4	13/A-6.00	

34" TO 44"

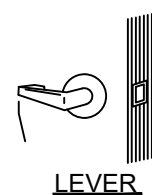
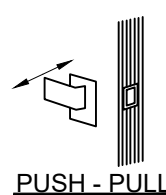


Figure 1: Detail drawings of kick plates for hollow metal and solid core wood doors. The drawings show cross-sections of doors with kick plates. Hollow metal doors (A, B, C, D, E) are 18 GA 1 3/4 THK. Hollow metal doors. Solid core wood doors (F, G, H, I, J) are 1 3/4 THK. Solid core wood doors. The drawings show the kick plate (where occurs) and the shading indicates safety glazing - per CBC 2406.1. Dimensions include 6 inches, 2'-0 inches, 6 inches, 8 inches, 43 inches MAX, 8 1/2 inches OF GLAZING, 10 inches MIN, and 1 3/4 THK. The drawings are labeled A through J.

The diagram illustrates two different metal frame profiles. On the left is a "1" wide frame, described as a "16 GA HOLLOW METAL FRAME". It has a simple rectangular shape with a thin profile. On the right is a "2" wide frame, described as a "TIMELY METAL FRAME". This frame is wider and has a more complex, multi-layered profile, suggesting a more robust construction. Both frames are shown standing on a horizontal base line.

HM	HOLLOW METAL
SC	SOLID CORE WOOD
AL	ALUMINUM

FINISHES:

P	PAINT, SEE SPECIFICATIONS
ST	STAIN AND SEAL
AA	ANODIZED ALUMINUM
FF	FACTORY FINISH
G1-T	MONOLITHIC TEMPERED CLEAR GLASS
IG1-T	INSULATED GLASS UNIT, TINTED TEMPERED GLASS

A. 45 MINUTE FIRE RATED DOOR

B. TRANSITIONS BETWEEN FLOOR FINISHES SHALL COMPLY WITH 11B-303 AND SHALL NOT OCCUR WITHIN DOOR MANEUVERING CLEARANCES. (11B-404.2.4.4)

THRESHOLDS.

1. THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2 INCH (12.7 mm) HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH 11B-404.2.5
2. CHANGE IN LEVEL OF 1/4 INCH (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT.
3. CHANGE IN LEVEL BETWEEN 1/4 INCH (6.4 mm) HIGH MINIMUM AND 1/2 INCH (12.7 mm) MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

MUST COMPLY WITH 11B-303.2 AND 11B-303.3 CBC 2022

FINISH FLOOR LEVEL
THRESHOLD

1/2" MAX.

COMPRESSED CARPET 1/4" MAX.
BELOW THRESHOLD 6.4 mm

DOOR

MAX. 2 SLOPE
1

THRESHOLDS

1/4"

1/2" MAX

Figure 1 shows four elevation drawings of window types, labeled A, B, C, and D, with their respective dimensions. A diagonal line is drawn between window B and window C. A note indicates that shadows are indicated for quality glassing per CBC 2006.1.

Window Type	Width	Height
A	8'-0"	4'-0"
B	6'-0"	4'-0"
C	4'-0"	4'-0"
D	3'-0"	4'-0"

SYMBOL	WIDTH	HT.	TYPE	GLAZING	FINISH	FRAME	HEAD DTL	JAMB DTL	SILL DTL	U-FACTOR	SHGC	VT
A	8'-0"	4'-0"	SLIDER	1/4" (MIN) DUAL GLAZED LOW "E"	BRONZE	VINYL	7/16-6.00 OR 7/16-6.04	12/16-6.00 OR 12/16-6.04	12/16-6.00 OR 12/16-6.04	0.31	0.23	.60
B	6'-0"	4'-0"	SLIDER	1/4" (MIN) DUAL GLAZED LOW "E"	BRONZE	VINYL	7/16-6.00 OR 7/16-6.04	12/16-6.00 OR 12/16-6.04	12/16-6.00 OR 12/16-6.04	0.31	0.23	.60
C	4'-0"	4'-0"	SLIDER	1/4" (MIN) DUAL GLAZED LOW "E"	BRONZE	VINYL	7/16-6.00 OR 7/16-6.04	12/16-6.00 OR 12/16-6.04	12/16-6.00 OR 12/16-6.04	0.31	0.23	.60
D	3'-0"	3'-0"	FIXED	1/4" (MIN) DUAL GLAZED LOW "E"	BRONZE	VINYL	7/16-6.00 OR 7/16-6.04	12/16-6.00 OR 12/16-6.04	12/16-6.00 OR 12/16-6.04	0.31	0.23	.64

1. GLAZING IN HAZARDOUS LOCATIONS DESCRIBED IN CBC SECTION 2406.3, SHALL BE TEMPERED SAFETY GLASS. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.
2. EACH LIGHT SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE AND THICKNESS OF GLASS. EACH LIGHT OF TEMPERED SAFETY GLASS SHALL HAVE A PERMANENT IDENTIFICATION LABEL WHICH SHALL BE VISIBLE WHEN THE LIGHT IS INSTALLED.
3. FRAMING PERIMETER DIMENSIONS ARE OPENING SIZES. CONTRACTOR TO VERIFY EXACT FRAME DIMENSIONS.
4. CLEAR FLOOR SPACE THAT COMPLIES WITH CBC 11B-308 SHALL BE PROVIDED WHERE OPERABLE HARDWARE EXISTS. MAX OPERATING HEIGHT SHALL COMPLY WITH CBC 11B-308 AND BE NO HIGHER THAN 48" A.F.F. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND FORCE REQUIRED TO ACTIVATE SHALL BE 5 LBS. MAX.
5. FOR INTERIOR WINDOW JAMB AND HEAD DETAILS SEE 14 & 15/A-6.00 FOR WOOD ~~AND SEE 16 AND 19/A-6.04 FOR METAL STUD~~
6. TEMPORARY NFRC LABELS SHALL STAY ON THE FENESTRATION PRODUCTS UNTIL THE INSPECTOR HAS VERIFIED THAT THE INSTALLED U-FACTOR, SHGC, AND VT MATCH THE WINDOW SCHEDULE.
7. WINDOWS TO COMPLY WITH ASCE 7-16, 13.5.9 (MIN. $\frac{3}{4}$ " WINDOW GLAZING GAP)

ROOM NUMBER	ROOM TYPE	INTERIOR FINISH SCHEDULE																													
		FLOOR										WAINSCOT										WALLS						CEILING			
		MAT	FIN	MAT	FIN	HT	MAT	FIN	HT	MAT	FIN	HT	MAT	FIN	HT	MAT	FIN	HT	MAT	FIN	HT	MAT	FIN	HT							
-	TYP. CLASSROOM	SW/PT	FF	RTB	FF	4"	-	-	-	-	-	-	TR	FF	TB	FF	TB	FF	TB	FF	TB	FF	ACT	FF	9'-0"						
-	TYP. BOY'S RR	CSV	FF		FF	6"	-	-	-	-	-	-	FRP	FF	FRP	FF	FRP	FF	FRP	FF	FRP	FF	GB	P	9'-0"						
-	TYP. CUSTODIAN	EC	-		FF	4"	-	-	-	-	-	-	GB	P	GB	P	GB	P	GB	P	GB	P	GB	P	9'-0"						
-	TYP. UNISEX RR	CSV	FF		FF	6"	-	-	-	-	-	-	FRP	FF	FRP	FF	FRP	FF	FRP	FF	FRP	FF	GB	P	9'-0"						
-	TYP. GIRL'S RR	CSV	FF		FF	6"	-	-	-	-	-	-	FRP	FF	FRP	FF	FRP	FF	FRP	FF	FRP	FF	GB	P	9'-0"						
-	TYP. ELEC.	EC	-	RTB	FF	4"	-	-	-	-	-	-	GB	P	GB	P	GB	P	GB	P	GB	P	OA		-						

ACT- ACOUSTIC CEILING TILE	EC- EXPOSED CONCRETE	GB- GYPSUM BOARD	PL- PLYWOOD SHEATHING	SYS- SHEET VINYL SLIP-RESISTANT
BYP- QUARRY TAPED & PRIMED	EPS- EXPOSED PAINTED SCORM	OA- OPEN TO ATTIC	TB- VINYL COVERED TACK BOARD	
CPT- CARPET	FF- FACTORY FINISH	P- PAINT	RTB- RUBBER TOPSET BASE	VCT- VINYL COMPOSITE TILE
CT- CERAMIC TILE	FRP- REINFORCED POLYESTER PANELS	PMIS- PERFORATED METAL SOFFIT	SL- SHEET LINOLEUM	
CSV- COVERED SHEET VINYL BASE	GT- GEO TILE (AT ENTRANCE)	PLS- PLASTER	SV- SHEET VINYL	

1. ALL WALLS (INCLUDING BATHROOM PARTITIONS) & CEILING FINISHES SHALL COMPLY WITH CBC 803 & 804

2. EXTERIOR ENTRIES AND/OR OPENINGS SUBJECT TO FOOT TRAFFIC OR WIND-DRIVEN RAIN SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR SUCH AS 4'x4" V.C.T. AND WALL FINISHES WITHIN AT LEAST 2'-0" AROUND AND PERPENDICULAR TO SUCH OPENINGS TO BE T.B. PLUS AT LEAST ONE OF THE FOLLOWING:

- AN INSTALLED AWNING AT LEAST 4'-0" IN DEPTH
- THE DOOR IS PROTECTED BY A ROOF OVERHANG AT LEAST 4'-0" IN DEPTH
- THE DOOR IS RECESSED AT LEAST 4'-0"
- OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION

1	SET	QTY	EXTERIOR CLASSROOM	SET	QTY	EXTERIOR STAFF RESTROOM
		3	IVES HINGE 5BB1HW 4.5 x 4.5 630 NRP		3	IVES HINGE 5BB1HW 4.5 x 4.5 630 NRP
		1	SCHLAGE SECURITY LOCK ND75TRDHO626		1	SCHLAGE LOCK CO-200-CY-40-KP-RHP-626-TD 626
		2	SCHLAGE CORE 23-030 626		1	SCHLAGE CORE 23-030 626
		1	LCN CLOSER 4040XP 689		1	LCN CLOSER 4040XP 689
		1	IVES KICK PLATE 8400 10" x 2" LDW 630		1	IVES KICK PLATE 8400 10" x 2" LDW 630
		2	NGP JAMB SEAL 700ES		2	NGP JAMB SEAL 700ES
		1	NGP HEAD SEAL 700S		1	NGP HEAD SEAL 700S
		1	NGP THRESHOLD 613 MS/LA		1	NGP THRESHOLD 613 MS/LA
		1	DOOR STOP FS436 US10 IVE		1	DOOR STOP FS436 US10 IVE
		1	SEAL 700S		1	SEAL 700S
	SET	QTY	EXTERIOR CLASSROOM WITH PANIC	SET	QTY	INTERIOR OFFICE/WORKROOM
		3	IVES HINGE 5BB1HW 4.5 x 4.5 630 NRP		3	IVES HINGE 5BB1 4.5 x 4.5 652
		1	VON DUPRIN EXIT DEVICE CDS9NL x 990NL 626		1	SCHLAGE LOCK ND53TRDHO626
		1	SCHLAGE RIM CYLINDER 20-061 JCY 626		1	SCHLAGE CORE 23-030 626
		1	SCHLAGE MORTISE CYLINDER 20-061 MCX 626		1	LCN CLOSER 4040XP 689
2		2	SCHLAGE CORE 23-030 626		1	IVES KICK PLATE 8400 10" x 2" LDW 630
		1	LCN CLOSER 4040XP 689		1	DOOR STOP FS436 US10 IVE
		1	IVES KICK PLATE 8400 10" x 2" LDW 630		1	SEAL 700S
		2	NGP JAMB SEAL 700ES	SET	QTY	INTERIOR STORAGE
		1	NGP HEAD SEAL 700S		3	IVES HINGE 5BB1 4.5 x 4.5 652
		1	NGP THRESHOLD 613 MS/LA		1	SCHLAGE LOCK ND80TRDHO626
		1	DOOR STOP FS436 US10 IVE		1	SCHLAGE CORE 23-030 626
		1	SEAL 700S		1	LCN CLOSER 4040XP 689
SET	QTY	EXTERIOR STORAGE				IVES KICK PLATE 8400 10" x 2" LDW 630
	3	IVES HINGE 5BB1HW 4.5 x 4.5 630 NRP		1	DOOR STOP FS436 US10 IVE	
	1	SCHLAGE STOREROOM LOCK ND80TRDHO626		1	SEAL 700S	
	1	SCHLAGE CORE 23-030 626	SET	QTY	INTERIOR PASSAGE	
	1	LCN CLOSER 4040XP 689		3	IVES HINGE 5BB1 4.5 x 4.5 652	
	1	IVES KICK PLATE 8400 10" x 2" LDW 630		1	SCHLAGE PASSAGE SET ND10SRHO626	
	2	NGP JAMB SEAL 700ES		1	LCN CLOSER 4040XP 689	
	1	NGP HEAD SEAL 700S		1	IVES KICK PLATE 8400 10" x 2" LDW 630	
		1	NGP THRESHOLD 613 MS/LA		1	DOOR STOP FS436 US10 IVE
		1	DOOR STOP FS436 US10 IVE		1	SEAL 700S
		1	SEAL 700S	SET	QTY	INTERIOR RESTROOM
	SET	QTY	EXTERIOR BOYS/GIRLS RESTROOM		3	IVES HINGE 5BB1 4.5 x 4.5 652
	3	IVES HINGE 5BB1HW 4.5 x 4.5 630 NRP		1	SCHLAGE PRIVACY SET ND40SRHO626	
	1	SCHLAGE CLASSROOM LOCK ND70TRDHO626		1	LCN CLOSER 4040XP 689	
	1	SCHLAGE CORE 23-030 626		1	IVES KICK PLATE 8400 10" x 2" LDW 630	
	1	LCN CLOSER 4040XP 689		1	DOOR STOP FS436 US10 IVE	
4		1	IVES KICK PLATE 8400 10" x 2" LDW 630		1	SEAL 700S
		2	NGP JAMB SEAL 700ES			
		1	NGP HEAD SEAL 700S			
		1	NGP THRESHOLD 613 MS/LA			
		1	DOOR STOP FS436 US10 IVE			

1. DOOR HANDLE FOR LOCKSETS AND PANIC HARDWARE SHALL BE CENTERED +38" A.F.F.
2. HARDWARE SHALL BE OPERABLE FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. LEVERS SHALL RETURN TO WITHIN ½" OF DOOR.
3. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS: 1. INTERIOR HINGED DOORS AND GATES: 5 POUNDS (22.2 N) MAXIMUM. 2. EXTERIOR HINGED DOORS OR FOLDING DOORS: 5 POUNDS (22.2 N) MAXIMUM. 3. REQUIRED FIRE DOORS: MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS (66.7 N) 4. EXTERIOR HINGED DOORS: 5 POUNDS (22.2 N) MAXIMUM. THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION. (118-404.2.9)
4. MAXIMUM UNLATCHING FORCE FOR PANIC HARDWARE SHALL NOT EXCEED 5 LBS APPLIED ON THE DIRECTION OF TRAVEL. PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1010.2.9
5. EACH DOOR IN A MEAN OF EGRESS FROM GROUP E OCCUPANCIES SHALL NOT BE PROVIDED WITH A LATCH OR LOCK UNLESS I IS PANIC HARDWARE OR FIRE EXIT HARDWARE PER CBC 1010.2.9
6. FLOOR STOPS SHALL NOT BE LOCATED IN THE PATH OF TRAVEL AND SHALL BE LOCATED 4" MAXIMUM FROM WALLS.
7. ALL EXT. CLASSROOM DOORS SHALL BE 180° SWING
8. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS (OF DOOR HARDWARE) SHALL BE 5 LBS. MAXIMUM. (118-309.4)



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02-120983
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**MODEL
G**

**TAFT PRIMARY
ELEM SCHOOL**
212 LUCARD ST.,
TAFT, CA 93268

MODULAR

SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

DRAWING TITLE

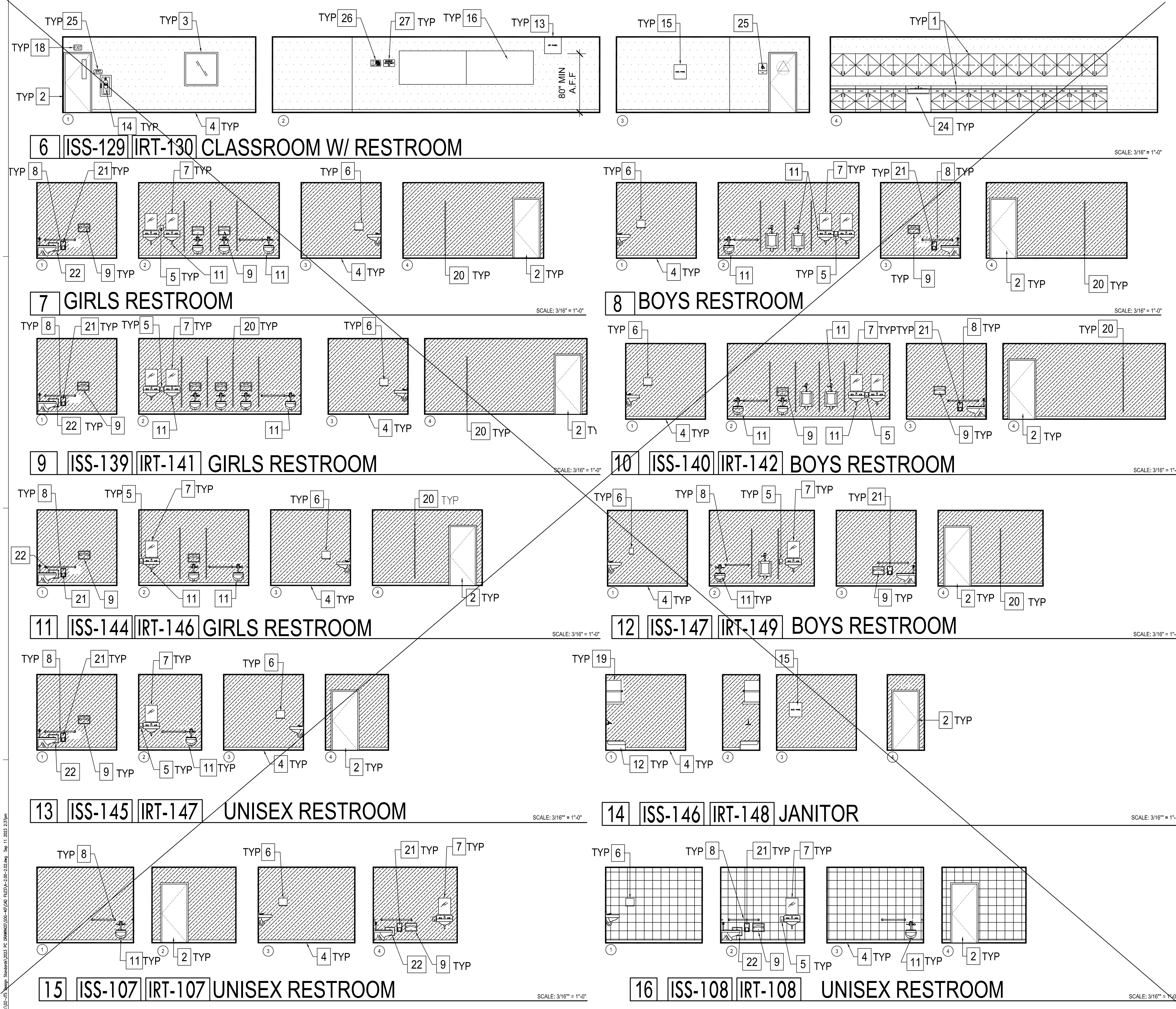
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DRAWING

A-1.32

\\jts-215\jts\Drawings\2023\PC\DRAWINGS\SS-20\000_1153\A-2.00-100.dwg Sep 11 2023 2:37pm



- ### KEYNOTES
1. WALL/BASE CABINETS TYP. - SEE 1/A-1.31
 2. DOOR AND FRAME PER SCHEDULE - REFER TO SHEET A-1.32
 3. WINDOW PER SCHEDULE - REFER TO SHEET A-1.32
 4. RUBBER TOP SET BASE
 5. SOAP DISPENSER - SEE SHEET A-2.20
 6. PAPER TOWEL DISPENSER - SEMI RECESSED, SEE A-2.20
 7. MIRROR SEE SHEET A-2.20
 8. GRAB BAR SEE DTL - 5/A-2.20 FOR MOUNTING
 9. TOILET SEAT COVER DISPENSER SEE SHEET A-2.20
 10. NOT USED
 11. ADA ACCESSIBLE PLUMBING FIXTURE - REFER TO SHEET A-2.20
 12. JANITOR'S MOP SINK
 13. IDF BOX - REFER TO ELECTRICAL SHEETS 60" MIN. AFF TO BOTTOM
 14. RECESSED FIRE EXTINGUISHER - SEE DETAIL 8/A-6.02
 15. ELECTRICAL PANEL - REFER TO ELECTRICAL SHEETS
 16. 4' X 8' MARKER BOARD - SEE DETAIL 9/A-6.02
 17. NOT USED
 18. EXIT SIGN
 19. WATER HEATER - REFER TO PLUMBING SHEETS
 20. TOILET PARTITION - SEE DETAILS 2 & 3/A-6.02
 21. TOILET PAPER DISPENSER REFER SHEET A-2.20 FOR ACCESSIBILITY REQUIREMENTS
 22. SANITARY NAPKIN DISPOSAL SHEET A-2.20 FOR ACCESSIBILITY REQUIREMENTS
 23. NOT USED
 24. ACCESSIBLE SINK IN CABINET REFER TO DETAIL 4/A-2.20
 25. TACTILE WALL SIGN REFER TO 3/A-1.31.
 26. ASSISTIVE LISTENING DEVICE SIGN (ALS) SIGN REFER TO 3/A-1.31
 27. OCCUPANCY LOAD SIGN REFER TO 3/A-1.31

- ### LEGEND
- | | |
|--|-----------------------------------|
| | CERAMIC TILE
REFER TO 1/A-6.04 |
| | 1/2" VINYL TACKABLE WALLBOARD |
| | FRP |
| | GYP. BD. PAINTED |
- *REFER TO SHEET A-1.32 FOR FINISH SCHEDULE

- ### GENERAL NOTES
1. SEE SHEET 6/A-2.20 FOR ACCESSIBLE MOUNTING HEIGHTS NO OTHER REQUIRED ACCESSIBLE DIMENSIONS
 2. REFER TO A-1.15 & A-1.16 FOR RESTROOM ACCESSORY SCHEDULE SPECIFICATIONS
 3. ALL DIMENSIONS ARE CLEARANCES FORM FINISH MATERIALS
 4. ALL CASEWORK TO BE PROVIDED BY SITE CONTRACTOR, UNLESS NOTED. MODULAR MANUFACTURER TO PROVIDE ALL BLOCKING FOR PROPER INSTALLATION
 5. MECHANICAL & ELECTRICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECH. & ELEC. SHEETS FOR EXACT LOCATION

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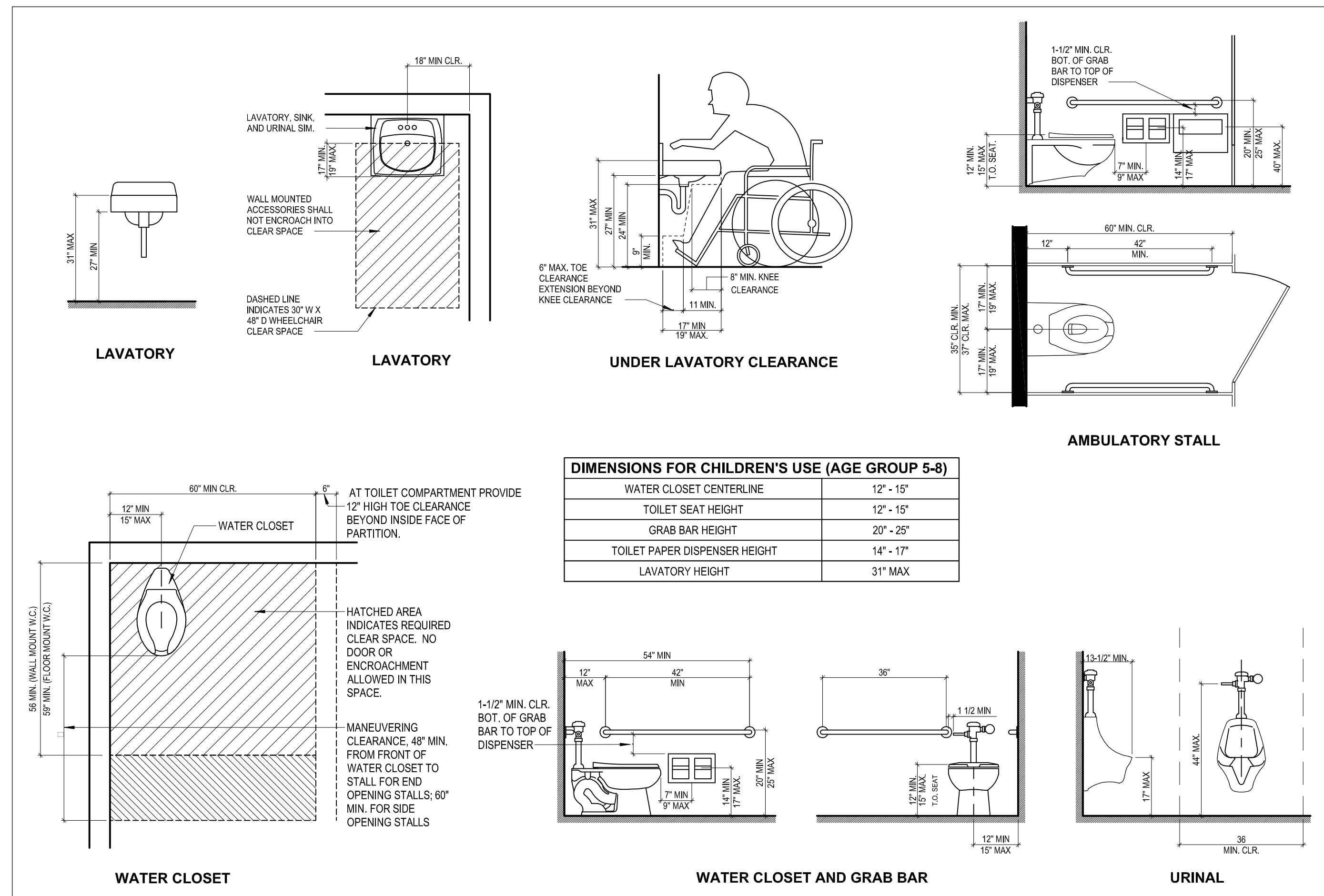
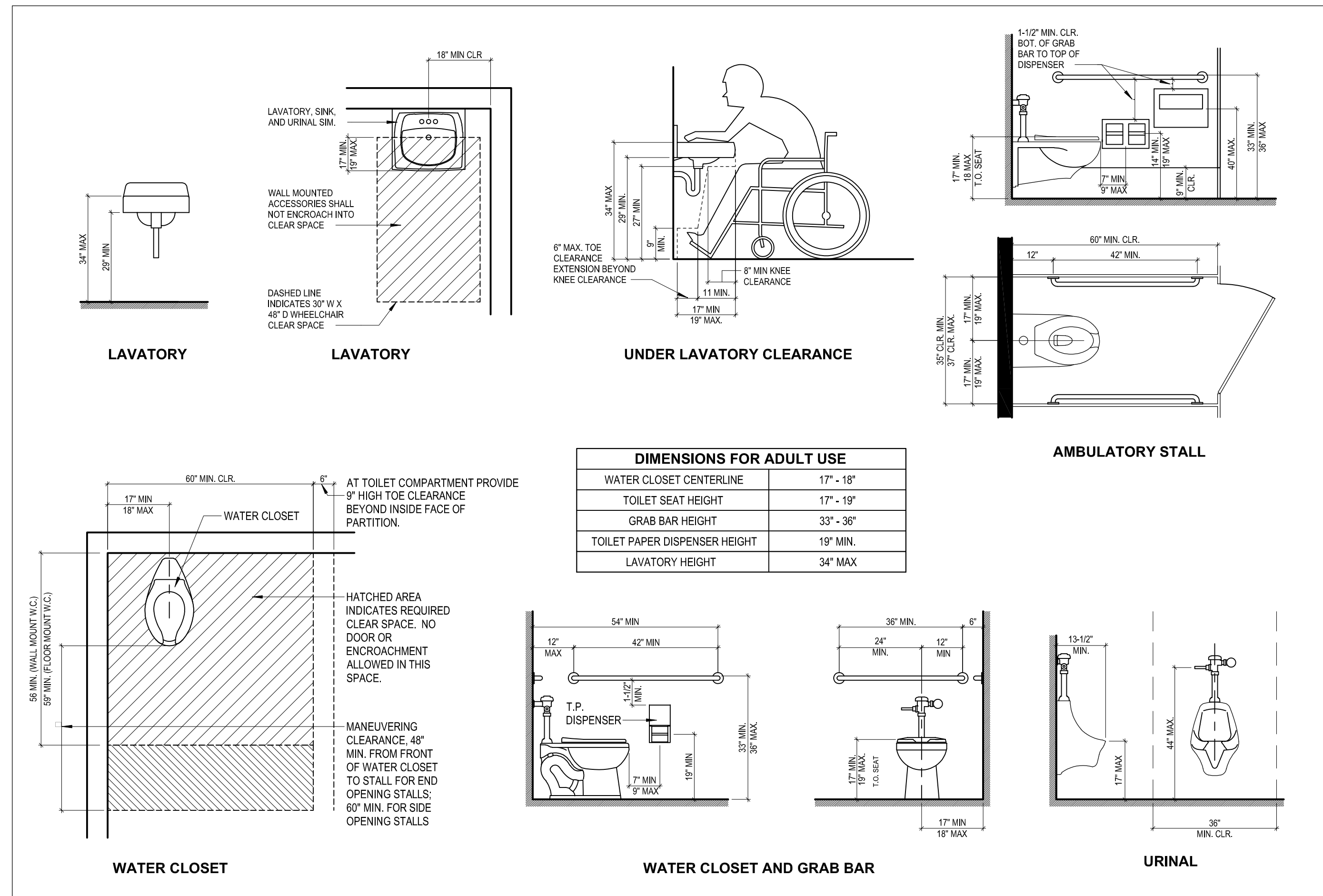
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40'-0" WIDE MODULAR BUILDING

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INTERIOR ELEVATIONS

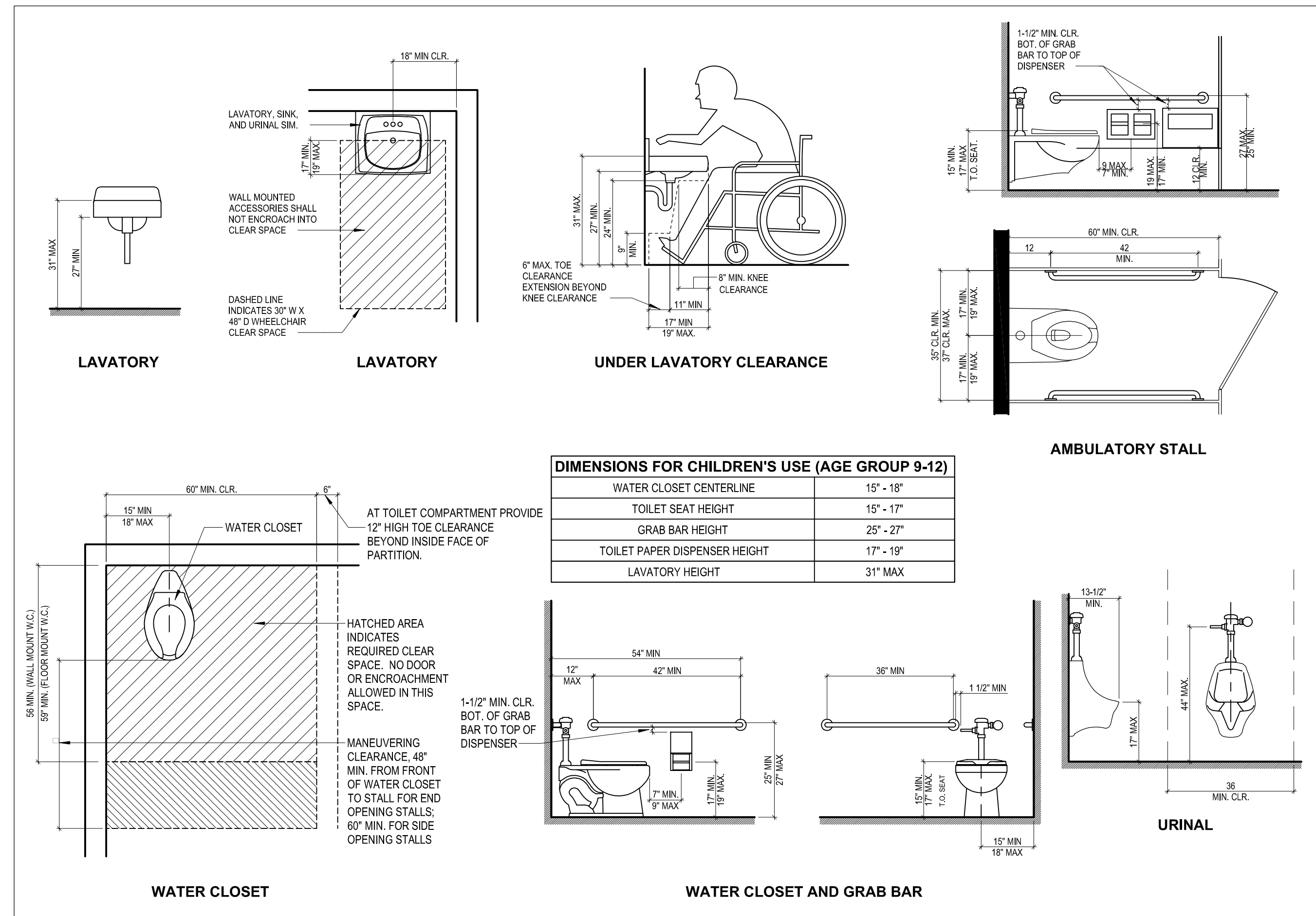
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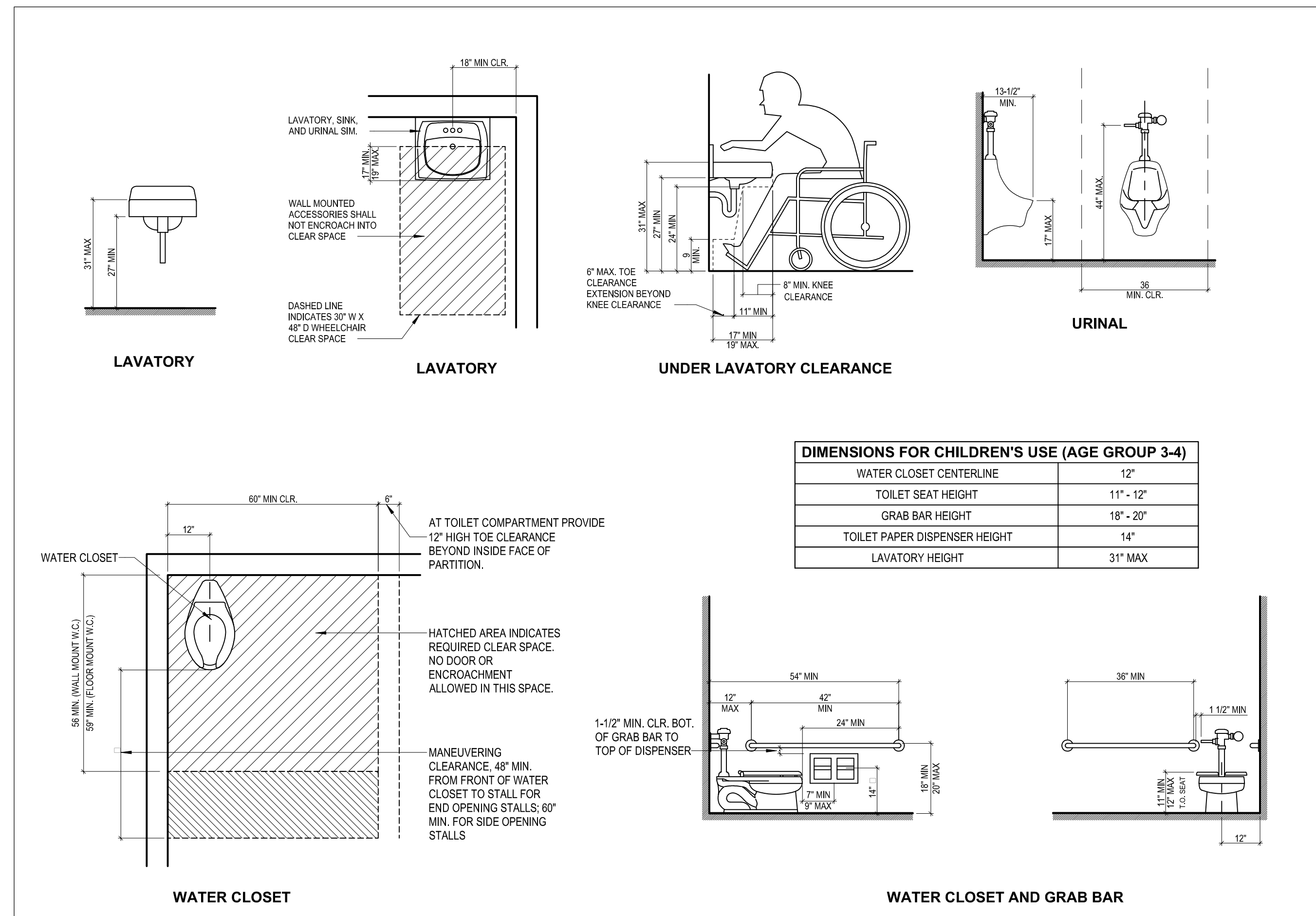
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3 AGE GROUP 5-8



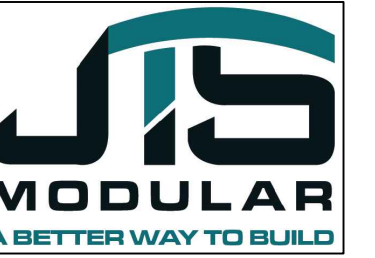
2 AGE GROUP 9-12



4 AGE GROUP 3-4

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AGE GROUP ACCESSIBILITY DETAILS

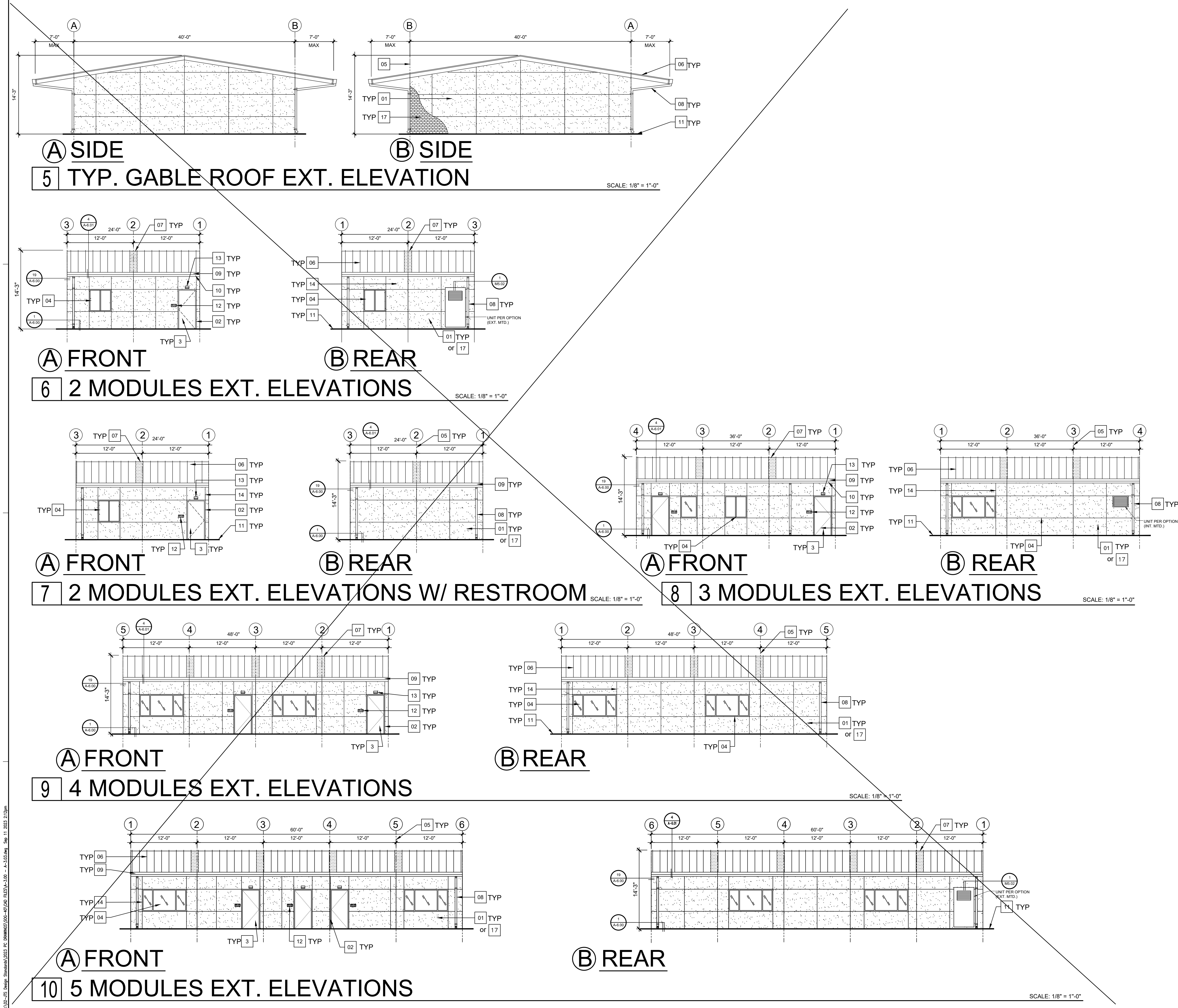
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KEYNOTES

- 01 PERMABASE O/ PLYWOOD, PER STRUCTURAL REFER TO 16/A-6.00 FOR WOOD & 16/A-6.04 FOR STEEL
- 02 16 GAUGE PRESSED METAL FRAME W/ LOCK IN ANCHORS REFER TO A-1.32
- 03 1 3/4" THICK 18 GAUGE INSULATED METAL DOOR REFER TO A-1.32
- 04 NAIL IN ALUMINUM WINDOW ASSEMBLY - INSTALL OVER 6" WIDE BUILDING PAPER FLASHING W/ 8d @ 24" O.C. REFER TO A-1.32
- 05 MODULE LINE - SEE 17/A-6.00
- 06 24 GA STANDING SEAM METAL ROOF REFER TO 1, 2, 3, 4, 5, 6 & 7/A-6.01
- 07 FIELD INSTALL ROOF PANEL SHOWN SHADED
- 08 DOWNSPOUT REFER TO 9/A-6.00
- 09 24 GA GUTTER W/ CLOSED ENDS REFER TO 2 & 6/A-6.01
- 10 1x10" EXTERIOR WOOD TRIM REFER TO 2, 3, 4, 6, & 7/A-6.01
- 11 CONCRETE FLATWORK BY OTHERS
- 12 CBC COMPLIANT DOOR SIGN REFER TO 3/A-1.31
- 13 COMPACT LIGHT FIXTURE
- 14 STUCCO CONTROL JOINT #1558x OR EQUAL - CONFORMS TO ASTM D11784-81 SEE 20/A-6.00
- 15 NOT USED
- 16 CANOPY REFER TO 3/A-6.05
- 17 THIN BRICK VENEER OPTION WHERE OCCURS, REFER TO 19/A-6.01

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GENERAL NOTES

FOR EXACT SHEARWALL LOCATION(S) SEE:

ONE MODULE: S-3.1
TWO MODULES: S-3.2
THREE MODULES: S-3.3
FOUR MODULES: S-3.4
FIVE MODULES: S-3.5

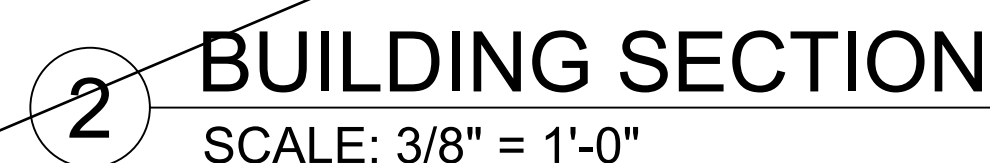
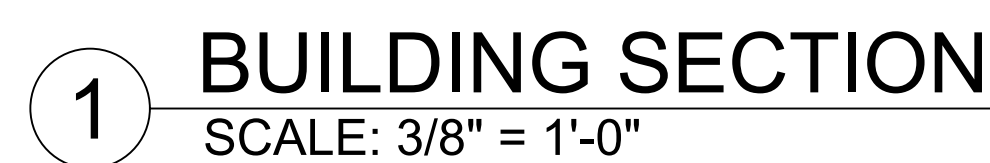
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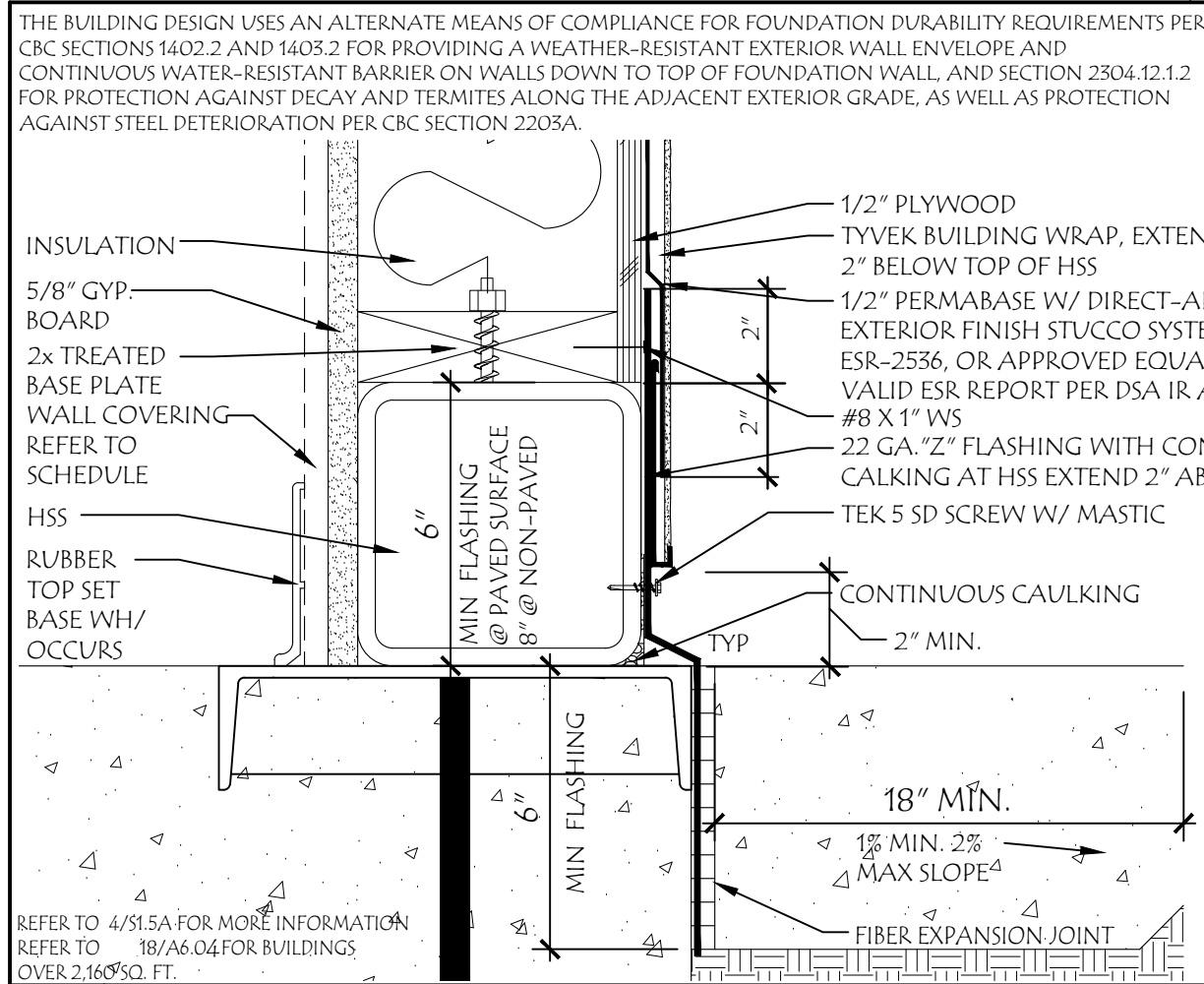
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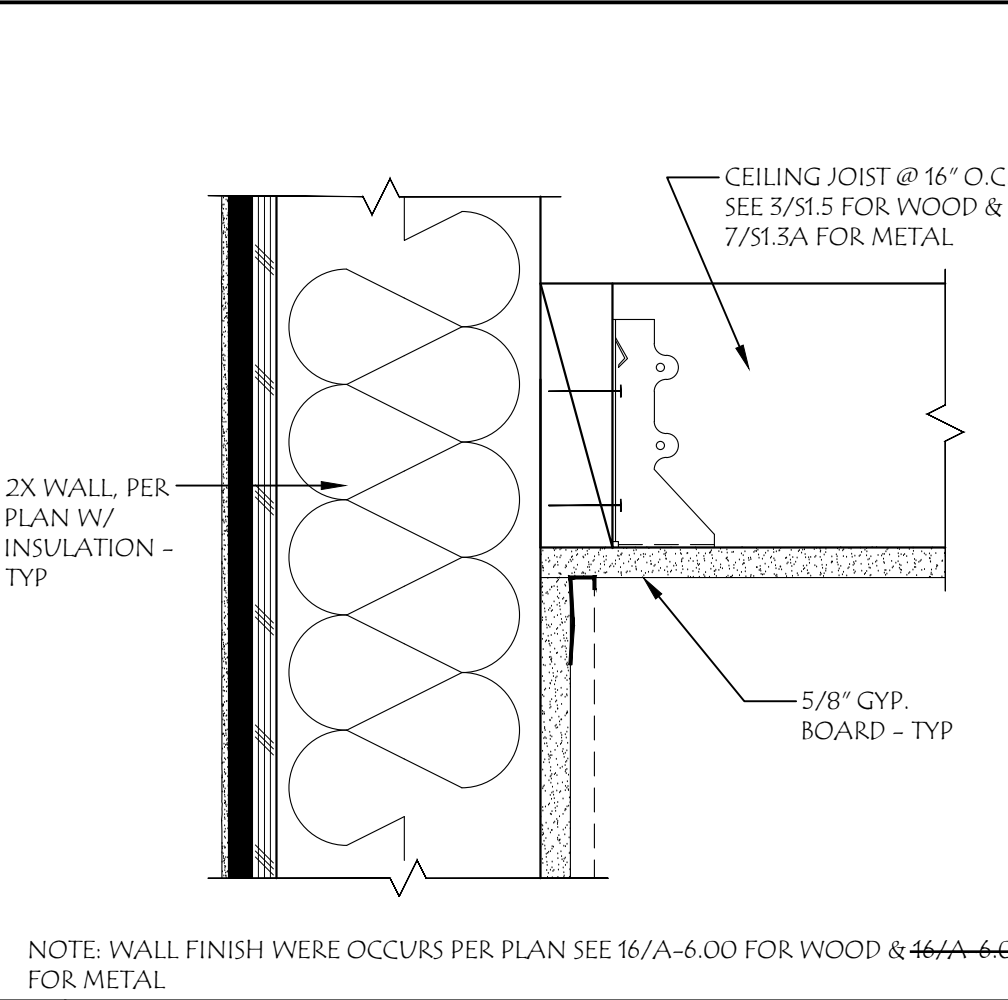


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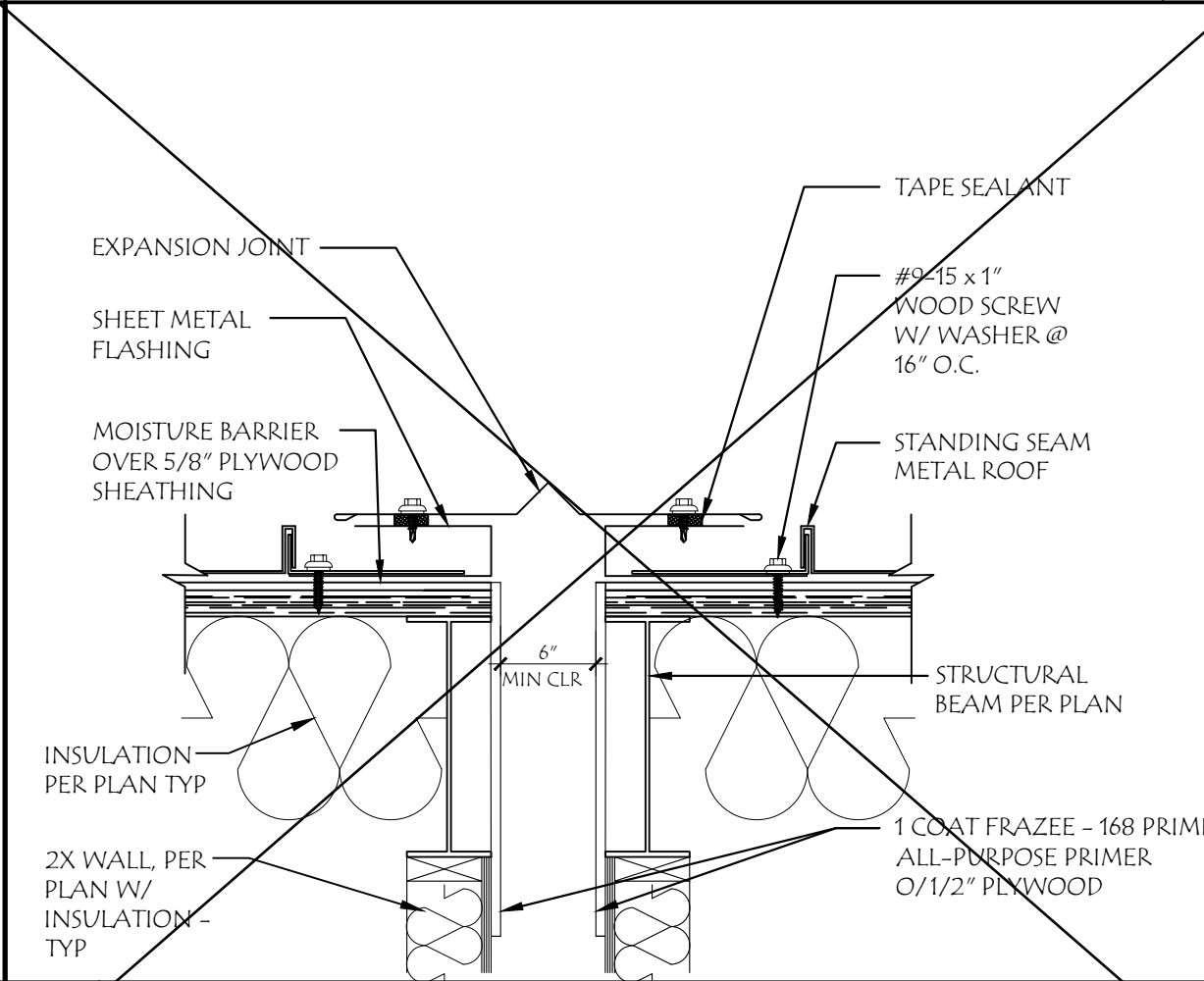
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|------------|-------------------------------------|
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| GUTTER | <input checked="" type="checkbox"/> |
| NO GUTTER | <input type="checkbox"/> |



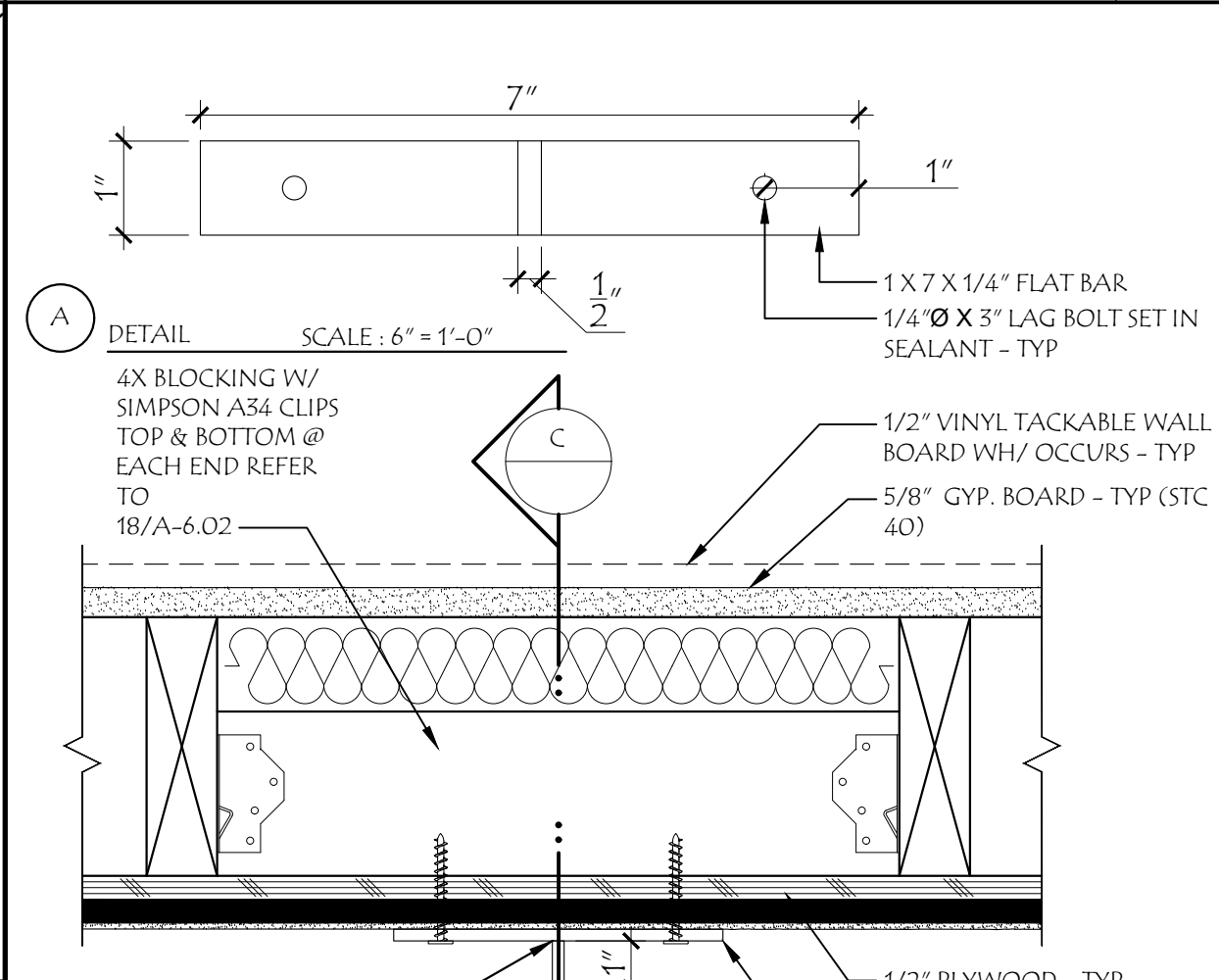
1 PERIMETER FLASHING W/ J SCREED SCALE: 3\"/>



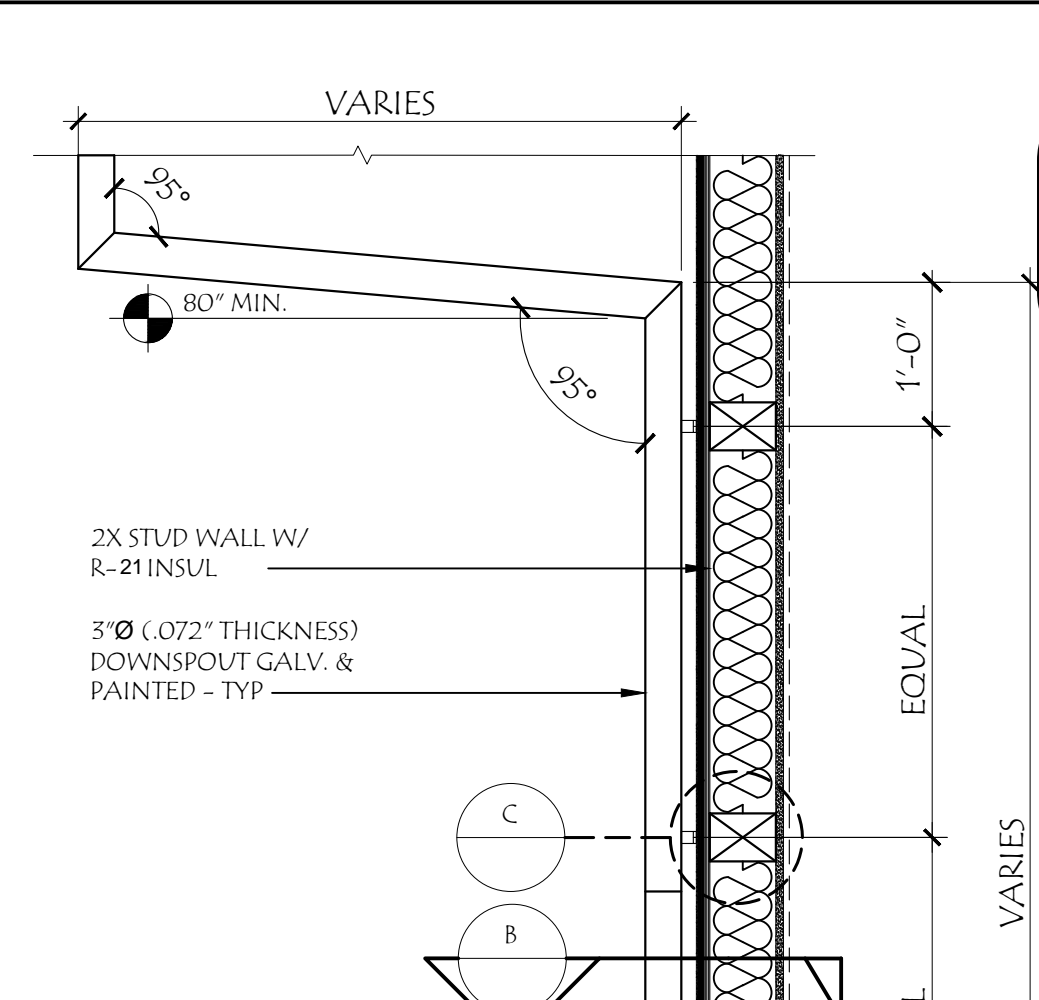
2 HARD LID CEILING SCALE: 3\"/>



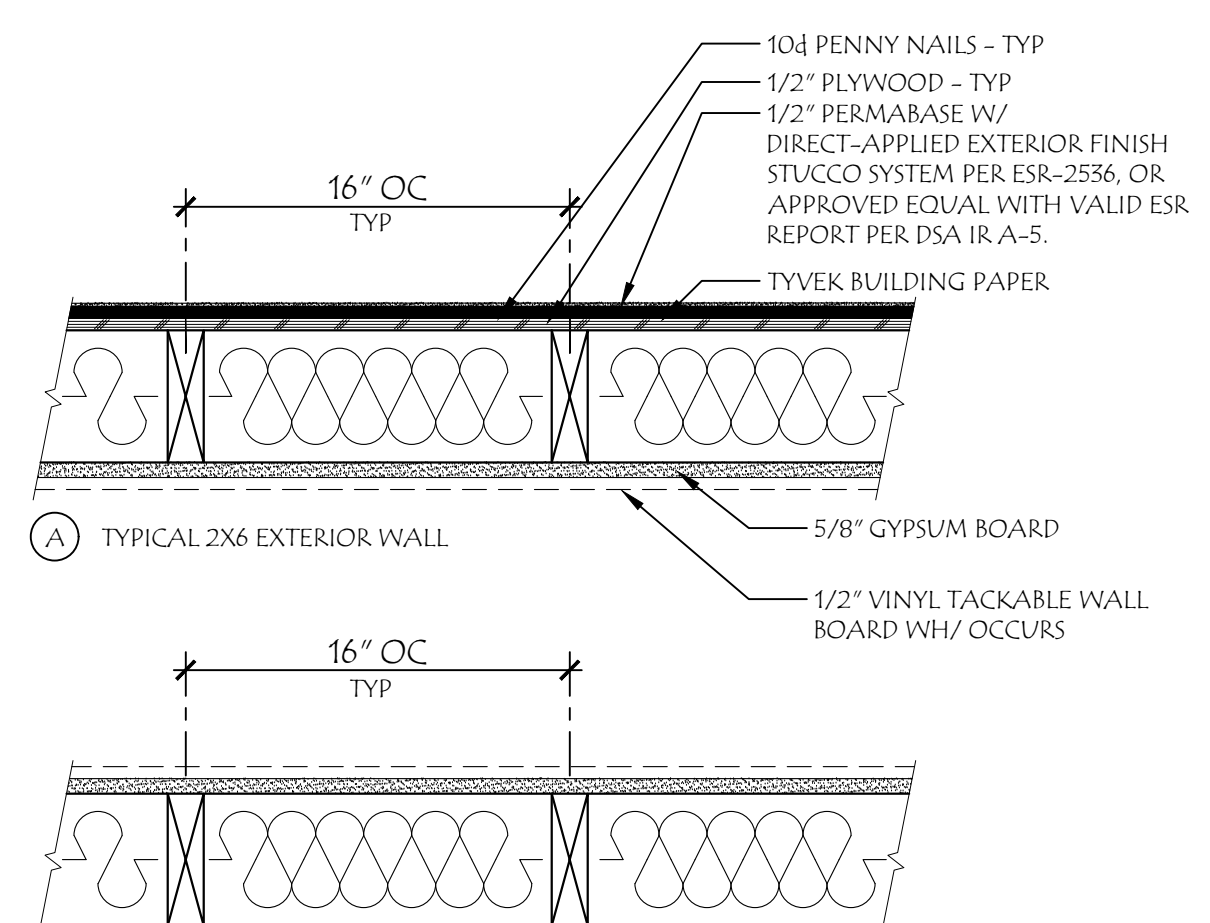
3 ROOF SEISMIC JOINT - OPTIONAL SCALE: NTS



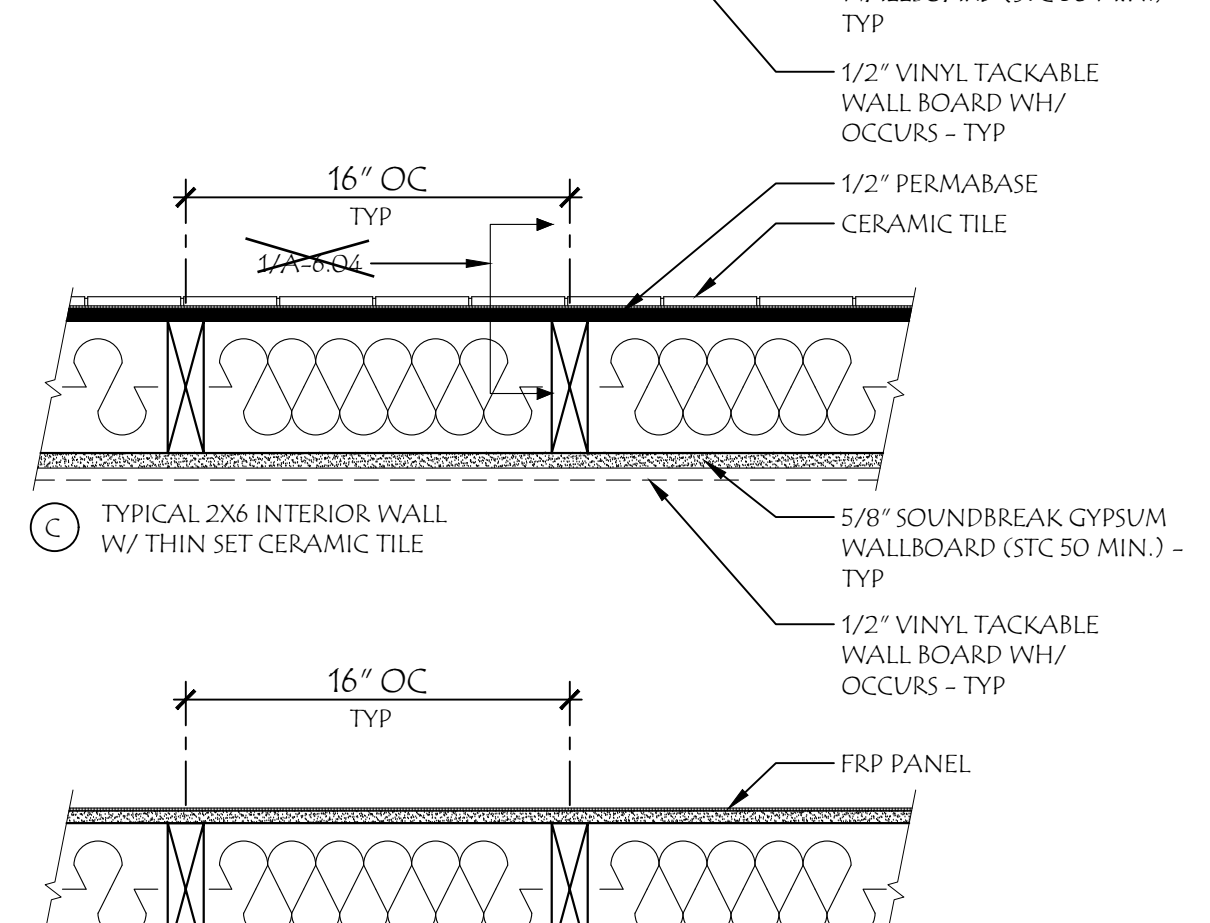
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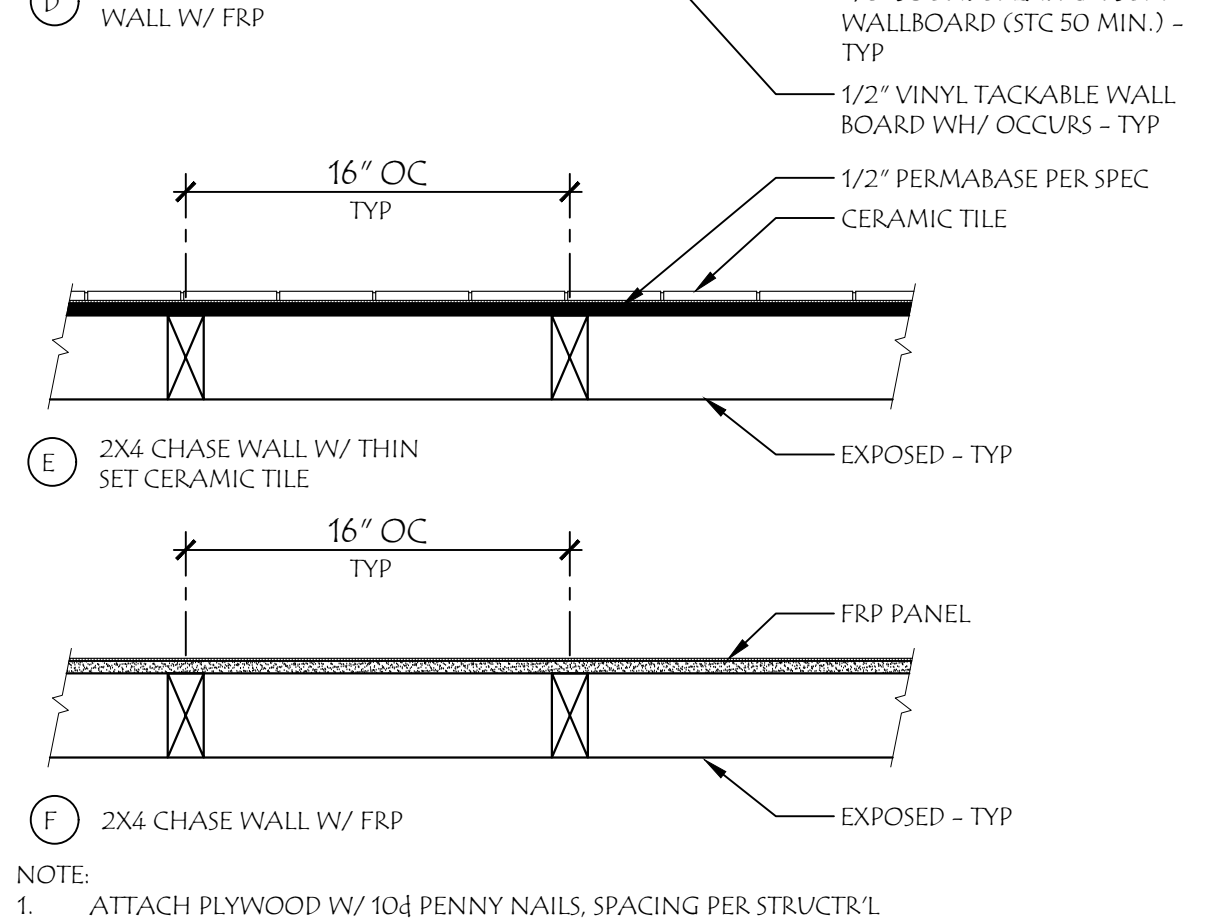
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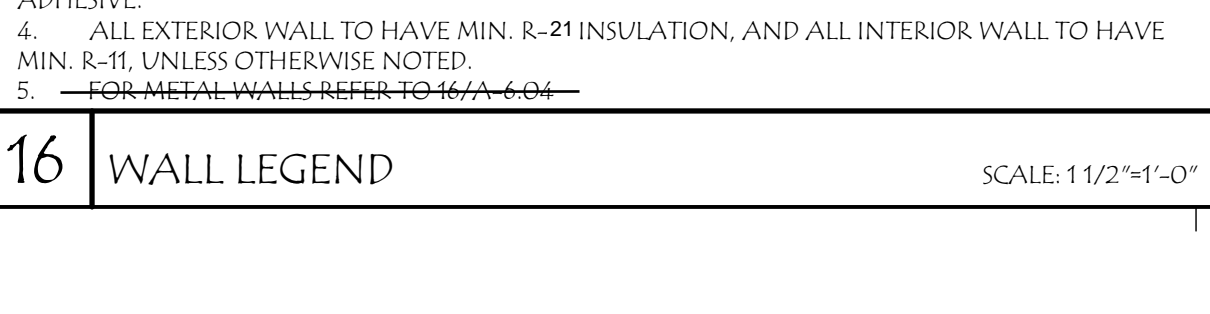
A TYPICAL 2X6 EXTERIOR WALL



B TYPICAL 2X6 INTERIOR WALL



C TYPICAL 2X6 INTERIOR WALL W/ THIN SET CERAMIC TILE



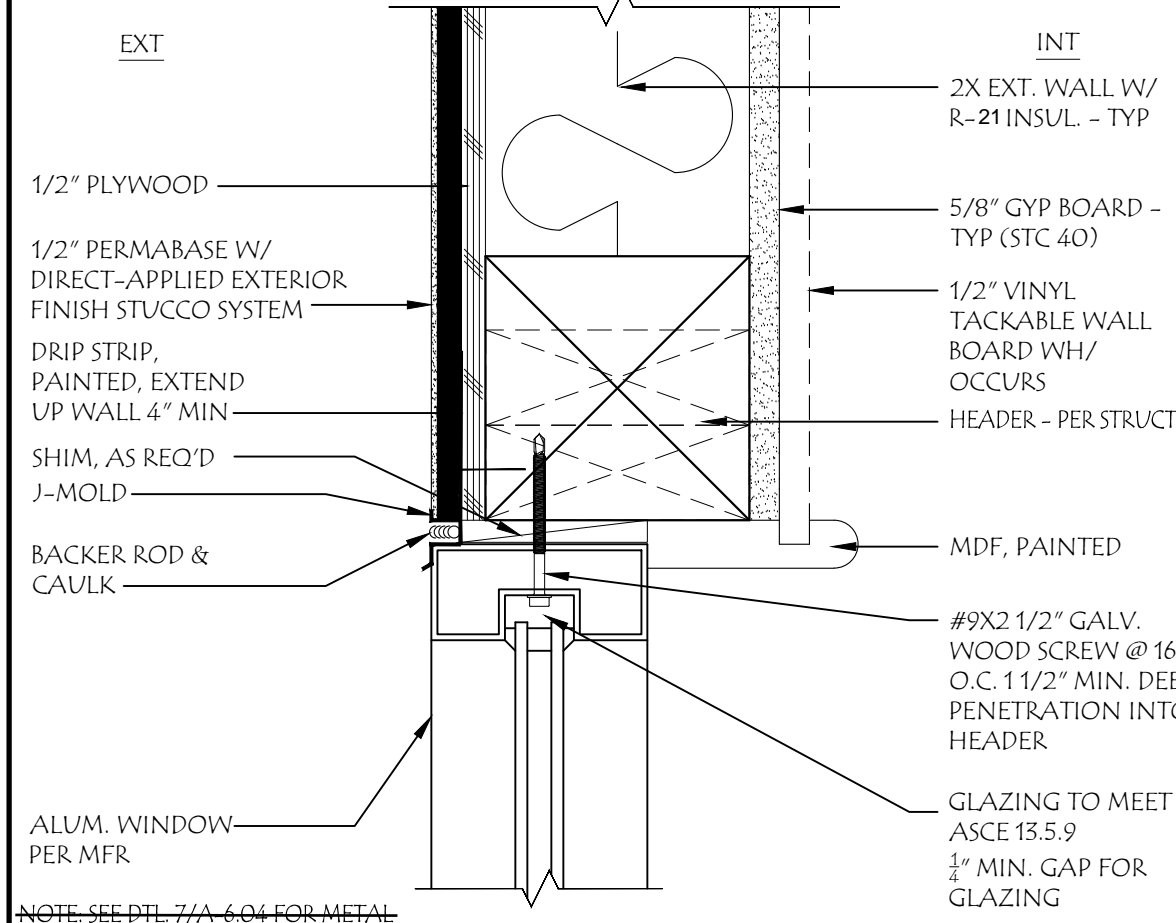
D TYPICAL 2X6 INTERIOR WALL W/ FRP

E 2X4 CHASE WALL W/ THIN SET CERAMIC TILE

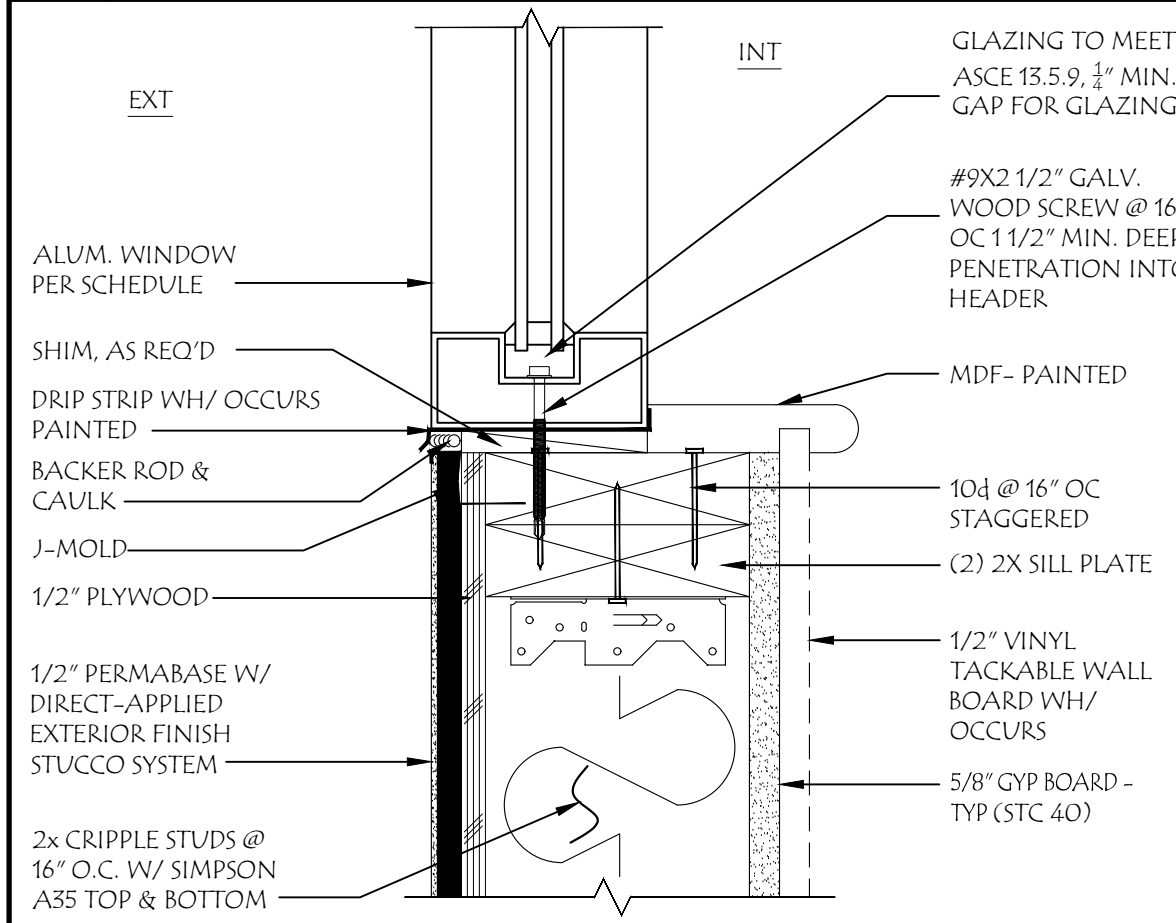
F 2X4 CHASE WALL W/ FRP

NOTE:
1. ATTACH PLYWOOD W/ 10d PENNY NAILS, SPACING PER STRUCT'L
2. ATTACH PERMABASE WITH CORROSION RESISTANT #8 X 1 5/8\"/>

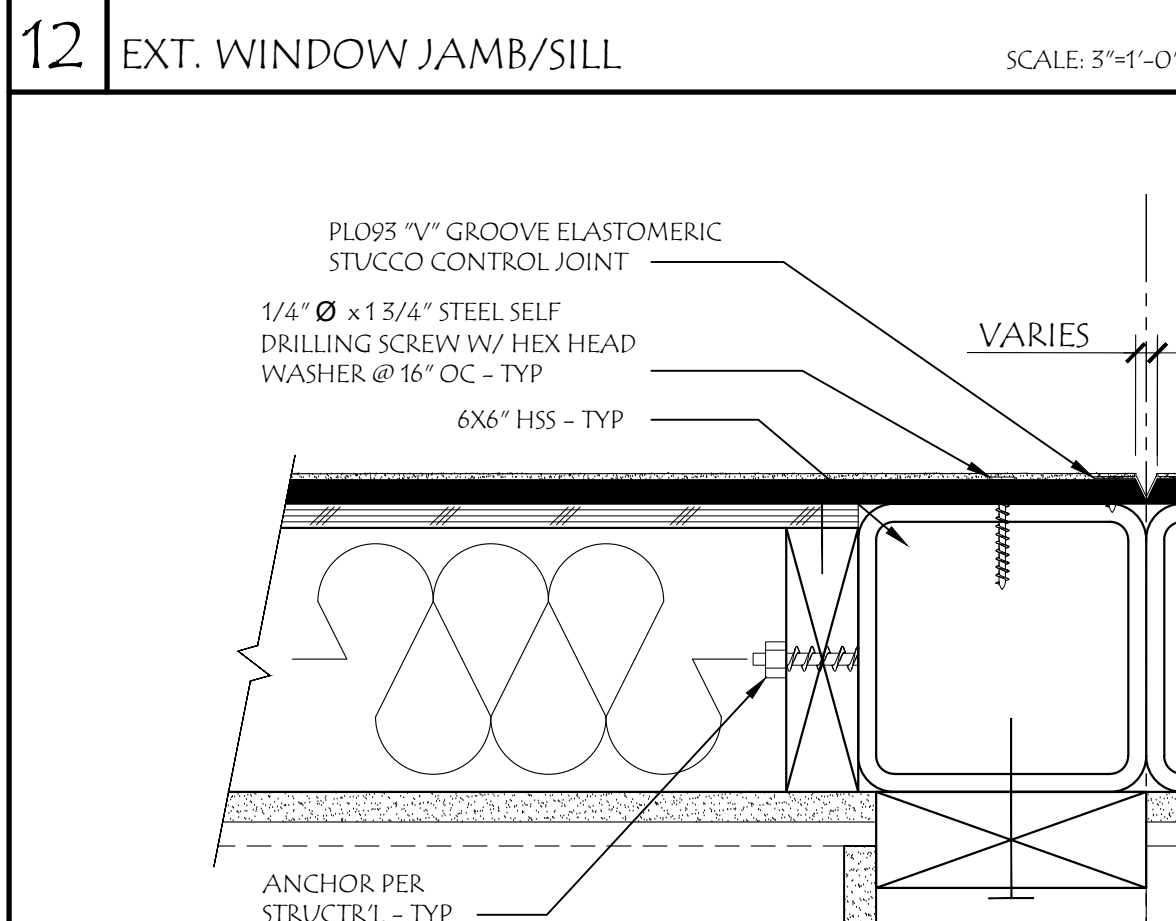
16 WALL LEGEND SCALE: 1 1/2\"/>



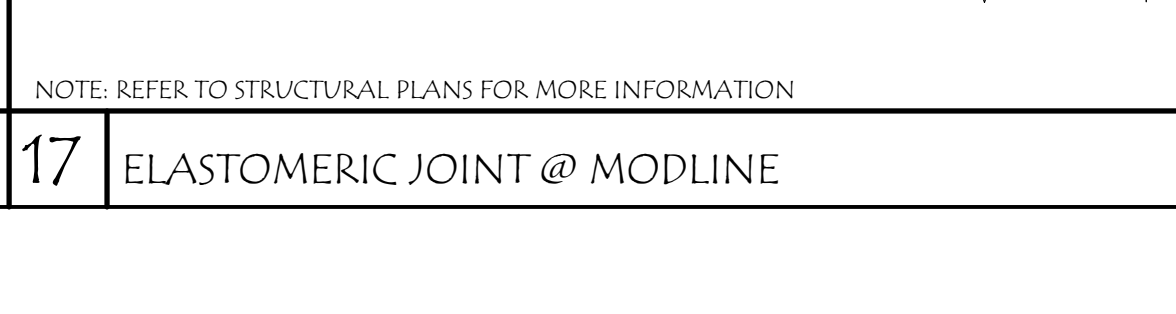
7 EXT. WINDOW HEAD SCALE: 3\"/>



8 EXT. DOOR HEAD SCALE: 3\"/>



12 EXT. WINDOW JAMB/SILL SCALE: 3\"/>



13 EXT. DOOR JAMB SCALE: 3\"/>

14 INT. WINDOW SILL/HEAD SCALE: 3\"/>

15 INT. DOOR HEAD/JAMB SCALE: 3\"/>

19 ELASTOMERIC JOINT @ OUTSIDE CORNER SCALE: 3\"/>

20 ELASTOMERIC JOINT @ MODLINE SCALE: 3\"/>

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Structural Engineering, Inc.
11055 Ranchita Boulevard RD., Suite 121
San Diego, CA 92127
PHONE: (619) 679-1874
FAX: (619) 679-1975

REGISTERED PROFESSIONAL ENGINEER
No. S-444
Exp. 10/31/26
STRUCTURAL
STATE OF CALIFORNIA

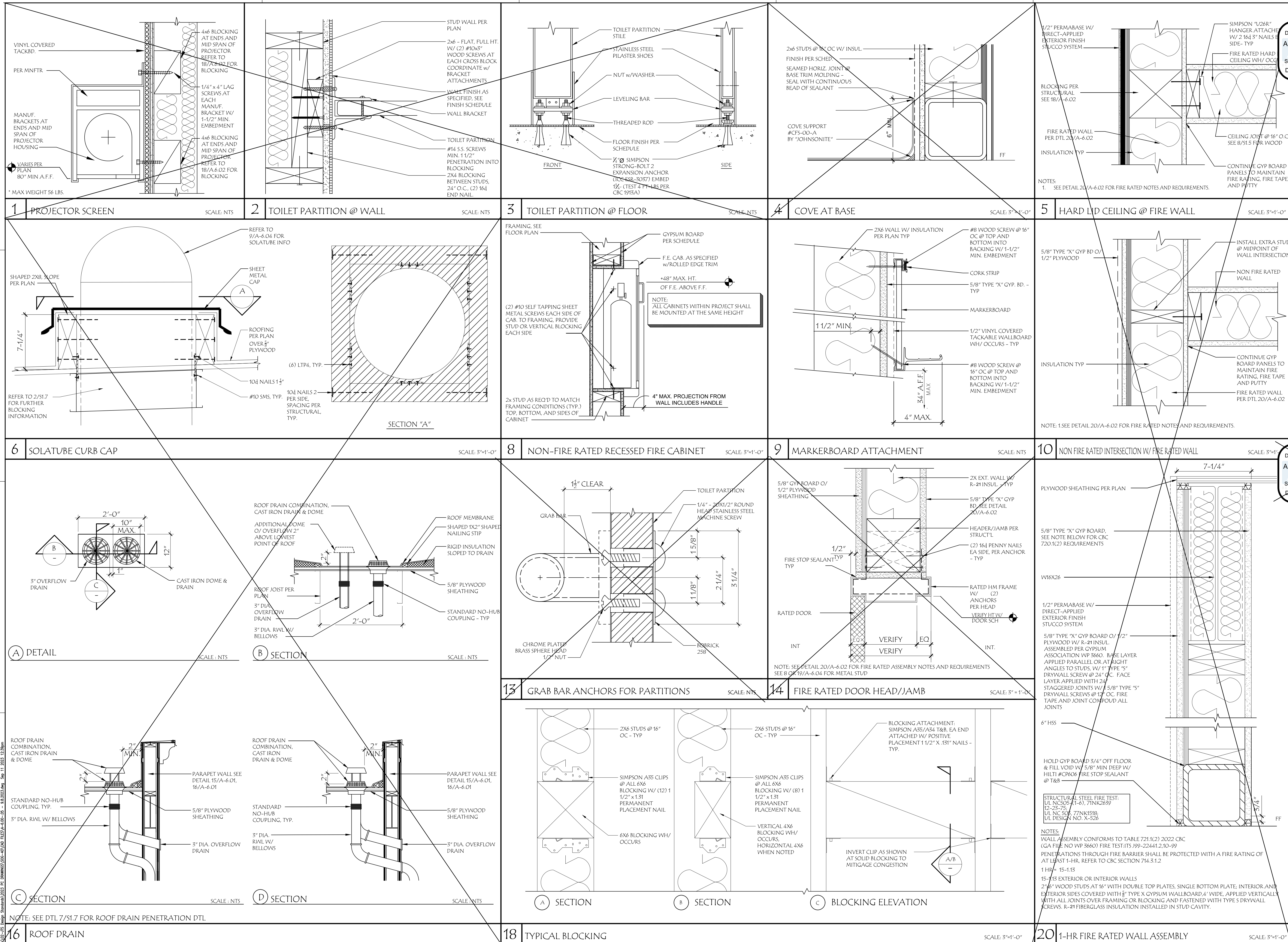
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120983-PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CG ☒
DATE: 10/10/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
DSA APPLICATION NUMBER
02-120983
A separate project application
for construction is required

MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DETAILS

Taft Primary
Elem School
212 LUCARD ST.
TAFT, CA 93288

DSA APP NO.
PROJECT NO.
06-0142
DRAWING
A-6.00



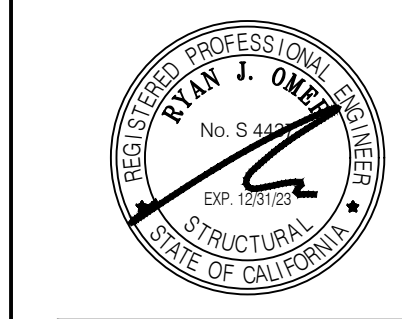
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124742 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 04/10/2025

APPROVALS
FILE # APPLICATION #



COMMERCIAL
INSTITUTIONAL
AND
RESIDENTIAL
MODULAR
BUILDINGS
DESIGN & PLANNING
7001 Mc Divitt Dr.
Bakersfield, CA 93313
Office: (661) 835-9270
Fax: (661) 847-1007
www.jtsmodular.com

STRUCTURAL ENGINEER OF RECORD
ORION
Structural Engineering, Inc.
11305 Rancho Bonanza RD., Suite 121
San Diego, CA 92127
PHONE: (609) 679-1874
FAX: (609) 679-1975



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120983-PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CG ☒
DATE: 10/10/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
DSA APPLICATION NUMBER
02-120983
A separate project application
for construction is required

MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
DETAILS

DSA APP NO.

PROJECT NO.
06-0142

DRAWING

A-6.02

CONCRETE:

1.

ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE 2019 C.B.C. AND THE A.C.I. 318-19 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
2.

SLAB AND FOUNDATION CONCRETE SHALL BE 150 P.C.F. HARDROCK, MIXED PER A.S.T.M. C-94, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 P.S.I. AT 28 DAY. MAX. SLUMP TO BE 4" ± 1" OF W/C RATIO ≤ .40
3.

PC IS NOT ALLOWED TO BE USED IN EXPOSURE CLASS F1,F2 AND F3
4.

THE MAXIMUM SIZE AGGREGATE IN FOUNDATION AND MASS CONCRETE WORK SHALL BE 1 INCH.
5.

CEMENT SHALL CONFORM TO A.S.T.M.. C-150, TYPE V , LOW ALKALI. AGGREGATES FOR NORMAL WEIGHT SHALL CONFORM TO A.S.T.M. C-33.
6.

ADMIXTURES AND COLORS (EXCEPT AS NOTED HEREIN) SHALL NOT BE USED UNLESS SUBSTANTIATING DATA IS SUBMITTED TO AND ACCEPTED BY THE ENGINEER AND ARCHITECT OF RECORD AND DSA, ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE PROHIBITED.
7.

CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. THE MIX DESIGNS SHALL CONFORM TO ACI 318-19 SECTION 26.4.3. UNLESS NOTED OTHERWISE.
8.

NON-STRUCTURAL STEEL EMBEDDED IN CONCRETE SHALL BE GALVANIZED OR PAINTED. ALL DAMAGED GALVANIZED AREAS SHALL BE REPAIRED PRIOR TO EMBEDMENT.
9.

READY MIXED CONCRETE SHALL CONFORM TO (A.S.T.M. C-94).
10.

PLACEMENT OF CONCRETE SHALL CONFORM THE 2022 C.B.C. AND THE TO A.C.I. 304. CLEAN AND ROUGHEN A FULL AMPLITUDE OF $\frac{1}{4}$ " BY REMOVING THE ENTIRE SURFACE AND EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX AGAINST ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE POURED.
11.

ALL EXPOSED CONCRETE SHALL HAVE A SMOOTH FORM FINISH USING B-B PLYFORM, CLASS I, EXT-A.P.A. PLYWOOD.
12.

ALL SLABS SHALL HAVE A TROWELED FINISH EXCEPT AS NOTED ON THE DRAWINGS.
13.

ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
14.

IF THE CONTRACTOR DESIRES TO MAKE ANY CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THESE DRAWINGS, HE SHALL SUBMIT DETAILS OF CHANGES TO THE ENGINEER OF RECORD FOR REVIEW BEFORE STARTING WORK AND THE ENGINEER OF RECORD TO OBTAIN DSA APPROVAL PRIOR TO STARTING WORK.
15.

NO BRICK OR POROUS MATERIAL SHALL BE USED TO SUPPORT FOUNDATION STEEL OFF THE GROUND.
16.

PROVIDE 1/2 INCH CHAMFER ON ALL EXPOSED CONCRETE CORNERS, U.N.O.
17.

MINIMUM CONCRETE COVERAGES
- FOOTINGS CAST AGAINST EARTH

3"
- FORMED CONCRETE EXPOSED TO EARTH OR WEATHER

2"
18.

CONCRETE CURING:
SLAB AND FDN; TYPICALLY REQUIRED FOR 10 DAYS TO ACHIEVE A MINIMUM OF 3000 PSI STRENGTH PRIOR TO INSTALLATION OF OTHER MAJOR STRUCTURAL COMPONENTS.

REINFORCING STEEL:

1.

ALL REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH THE C.B.C., AND THE "MANUAL OF STANDARD PRACTICE" BY THE C.R.S.I.
2.

REINFORCING BARS SHALL CONFORM TO A.S.T.M. A-615, DEFORMED GRADE 60. REINFORCING BARS THAT ARE TO BE WELDED SHALL CONFORM TO A.S.T.M. A-706, DEFORMED GRADE 60.
3.

WELDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH A.S.T.M. A-706 WITH LOW HYDROGEN ELECTRODES AND SHALL CONFORM TO THE STRUCTURAL WELDING CODE REINFORCING STEEL BY A.N.S.I. / A.W.S. D1.4. MINIMUM TENSILE STRENGTH OF WELD METAL SHALL BE 90 K.S.I. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.
4.

ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
5.

DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE LAPPED WITH THE SAME GRADE, SIZE, SPACING AND NUMBER AS THE VERTICAL REINFORCEMENT, RESPECTIVELY.
6.

REINFORCING SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS.
7.

SLAB ON GRADE REINFORCING SHALL BE POSITIONED AT MID-DEPTH, UNLESS NOTED OTHERWISE.
8.

PROVIDE #3 SPACER TIES AT 2'-6" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE REINFORCING BARS IN PLACE, U.N.O.
9.

PIPING AND CONDUIT SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED. A.C.I. #318-19
- FOUNDATION:
1.

THIS P.C. IS DESIGN TO THE C.B.C. TABLE 1806A.2 CLASS 5 MATERIAL MINIMUM. WHERE SOIL REPORT IS AVAILABLE; ATTACH ONE COPY OF SOILS REPORT TO THE APPROVED SET OF CONSTRUCTION DOCUMENTS. SOILS REPORT SHALL BE PART OF THESE NOTES. PRIOR TO THE POURING OF CONCRETE AND PRIOR TO THE CONTRACTOR REQUESTING A DSA FOUNDATION INSPECTION, THE GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE THE FOOTING EXCAVATIONS. HE SHALL POST NOTICE ON THE JOB SITE AND ADVISE THE DSA INSPECTOR IN WRITING THAT THE WORK SO INSPECTED MEETS THE CONDITIONS OF THE REPORT. A WRITTEN CERTIFICATION TO VERIFY THAT:

A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOIL REPORT.

B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED, AND

C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT.

2.

SOIL REMOVAL AND RECOMPACTION SHALL BE DONE PER SOILS REPORT RECOMMENDATIONS UNDER GEOTECHNICAL ENGINEER'S SUPERVISION AND INSPECTION. IF NO SOILS REPORT IS AVAILABLE, DSA INSPECTOR TO VERIFY.

A. SITE HAS BEEN PREPARED PROPERLY PRIOR TO PLACEMENT OF CONTROLLED FILL AND/OR EXCAVATIONS FOR FOUNDATION.

B. FOUNDATION EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.

C. MATERIALS BALOW FOOTING ARE ADEQUATED TO ACHIVE BEARING CAPACITY.

3.

TYPE OF FOOTING:

A. SHALLOW FOOTING SYSTEM MINIMUM EMBEDMENT 30" BELOW LOWEST ADJACENT GRADE.

DESIGN SOIL PRESSURE:

FOOTING TYPE

STATIC BEARING PRESSURE (DL+LL)

SPREAD FOOTING

1,500

CONTINUOUS FOOTING

1,500

NO 1/3 SHORT TERM INCREASE

SLIDING RESISTANCE FACTOR ϕ

= 0.4

4.

NO PIPES OR DUCTS SHALL BE PLACED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED AND APPROVED BY THE ENGINEER AND DSA.

5.

FOR ALL DIMENSIONS, CURBS, SLAB DEPRESSIONS, STEPS, FLOOR DRAINS, FLOOR SINKS, TRENCHES, UNDER FLOOR DUCTS AND CONDUITS, SEE ARCHITECTURAL, MECHANICAL, AIR CONDITIONING, PLUMBING, AND ELECTRICAL DRAWINGS, TRENCH BACKFILL AS PER SOILS REPORT REQUIREMENTS.

6.

ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.

7.

THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN AREAS TO BE EXCAVATED BEFORE BEGINNING EXCAVATION. EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING. DAMAGE CAUSED AS A RESULT OF FAILING TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

8.

THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, APPROVALS, PERMITS, INSTALLATION AND MONITORING OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN TEMPORARY EXCAVATIONS.

9.

ALL PLANTERS IN CLOSE PROXIMITY TO THE STRUCTURE SHALL HAVE ADEQUATE DRAINAGE OF SURFACE WATER TO PREVENT SATURATION OF SOIL UNDER FOUNDATION.

10.

2022 C.B.C. SEISMIC SITE CLASS A, B, C, OR D (SECTION 1613A.2.3).

11.

A GEOTECHNICAL & GEO-HAZARD REPORT IS REQUIRED FOR BUILDINGS LARGER THAN 4000 SQUARE FEET OR IF LOCATED WITHIN EARTHQUAKE FAULT ZONES OR SEISMIC HAZARD ZONES AS SHOWN IN THE MOST RECENTLY PUBLISHED MAPS FROM THE CALIFORNIA GEOLOGICAL SURVEY (CGS) OR IN SEISMIC HAZARD ZONES AS DEFINED IN THE SAFETY ELEMENT OF THE LOCAL GENERAL PLAN.

GENERAL NOTES:

1.

THE PROJECT SPECIFICATIONS SHALL BE PART OF THE CONTRACT DOCUMENTS.

2.

THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.

3.

THE CONTRACTOR SHALL REVIEW EXISTING CONDITIONS ON THE SITE DURING THE BIDDING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO PROCEEDING.

4.

ALL PHASES OF WORK ARE TO CONFORM TO THE MINIMUM STANDARDS OF THE CALIFORNIA BUILDING CODE (2022 EDITION C.B.C.), RELATED CALIFORNIA BUILDING CODE STANDARDS, AND ANY A.S.T.M. SPECIFICATIONS ON WHICH THESE STANDARDS ARE BASED. WHERE CONFLICT BETWEEN BUILDING CODES AND SPECIFICATIONS OCCURS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

5.

ALL A.S.T.M. DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATION, AS OF THE DATE OF THESE DRAWINGS.

6.

ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.

7.

NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

8.

THE STRUCTURAL DRAWINGS SHOW ONLY THE BASIC STRUCTURAL REQUIREMENTS. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS, SUCH AS:

A. SIZE AND LOCATION OF ALL OPENINGS.

B. SIZE AND LOCATION OF ALL NON-BEARING WALLS.

C. SIZE AND LOCATION OF ALL CONCRETE CURBS, WALKS, ROOF AND FLOOR DRAINS, SLOPES, DEPRESSED SLAB AREAS, ETC.

D. FLOOR, ROOF AND WALL FINISHES.

E. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

9.

THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.

10.

NEITHER THE OWNER NOR THE ARCHITECT/STRUCTURAL ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE SAFETY ITEMS.

11.

SATISFACTORY EXECUTION OF CONSTRUCTION IS DEPENDENT UPON CONFORMANCE WITH THE INTENT OF THESE DRAWINGS. OWNER OR CONTRACTOR SHALL RETAIN A CALIFORNIA LICENSED STRUCTURAL ENGINEER DURING CONSTRUCTION TO OBSERVE THE CONSTRUCTION AND FILE A REPORT (DSA 6AE) STATING THE "THE CONSTRUCTION HAS, IN EVERY MATERIAL RESPECT, BEEN PERFORMED IN COMPLIANCE WITH THE DSA APPROVED DOCUMENTS".

12.

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD FOR EACH PARTICULAR LEVEL. WHEN WEIGHT OF MATERIALS OR EQUIPMENT MAY EXCEED DESIGN LOAD, STRUCTURAL SYSTEMS SHALL BE SHORED.

13.

WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK. THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.

DESIGN BASIS:

CODE: 2022 C.B.C. (CALIFORNIA BUILDING CODE CCR, TITLE 24, PART 2)

GRAVITY LOADS:

1.

ROOF LIVE LOAD

20 P.S.F. (REDUCIBLE)

ROOF DEAD LOAD

22 P.S.F. (MAX.)

SOLAR LOAD

3 P.S.F. LOADING FOR FUTURE SOLAR PANELS IS INCLUDED IN THE DEAD LOAD. A SEPERATE DSA APPLICATION IS REQD. FOR SOLAR PANELS

2. SNOW LOAD Pg 0 PSF

LATERAL LOADS:

1.

SEISMIC DESIGN

I = 1.0

Q = 1.0

RISK CATEGORY = II

SEISMIC DESIGN CATEGORY = E

ANALYSIS METHOD = EQUIVALENT LATERAL FORCE ANALYSIS

R = 6.5 LIGHT FRAMED BEARING WALLS W/ WOOD STRUCTURAL PANELS FOR SHEAR RESISTANCE.

SITE CLASS	$\text{A} \square$	$\text{B} \square$	$\text{C} \square$	$\text{D} \boxtimes$	D-DEFAULT \square
Ss	2.69	2.38	1.79	2.14	1.79
Fa	0.8	0.9	1.2	1.0	1.2
Sms (Fa x Ss)	2.15	2.15	2.15	2.14	2.15
S _{as} (2/3 S _{ms})	1.43	1.43	1.43	1.43	1.43
0.7S _{as} ^[1]	1.0	1.0	1.0 ^[d]	1.0 ^[d]	1.0 ^[d]
S1	0.75	0.75	0.75	0.75	0.75
Fv	0.8	0.8	1.4	1.7	1.7
SM ₁ (Fv x S ₁)	0.6	0.6	1.05	1.91 ^[d]	1.275 ^[d]
S _{o1} (2/3 S _{o1})	0.4	0.4	0.7	1.28	0.85

S_{as}=1.43 FOR MECHANICAL AND ARCHL COMPONENTS
SEISMIC BASE SHEAR V = CsW, WHERE Cs = 0.154(LRFD)
[1] AND [4]: MAX Sds = 1.0 AND 30% REDUCTION IN Sds PER ASCE 7-16, SECTION 12.8.1.3
[2]: SITE CLASS A,B,C,D TO BE SUBSTANTIATED BY GEO-TECHNICAL REPORT, SITE CLASS D-DEFAULT TO BE USED IN ABSENCE OF GEOTECH REPORT
[3]: MAXIMUM BASE SHEAR BASED ON EQN. 12.8-2 WAS USED, THEREFORE, A GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED

2.

WIND DESIGN

ANALISIS METHOD ± DIRECTIONAL PROCEEDURE

Vault = 95 M.P.H.

EXPOSURE "C"

Kzt = 1.0

Gcpi = .18

Ke = 1.0

RISK CATEGORY = II

FLOOD HAZARD: DESIGN DOES NOT ACCOUNT FOR FLOOD HAZARD.

BUILDING DRIFT

ROOF TYPE	DIRECTION	DRIFT
BARREL	TRANSVERSE	2"
	LONGITUDINAL	1 5/8"
BARREL W/ OVERHANG	TRANSVERSE	2"
	LONGITUDINAL	1 5/8"
MONOSLOPE	TRANSVERSE	2"
	LONGITUDINAL	1 5/8"
MONOSLOPE W/ OVERHANG	TRANSVERSE	2"
	LONGITUDINAL	1 5/8"
DUAL PITCH	TRANSVERSE	2"
	LONGITUDINAL	1 5/8"
DUAL PITCH W/ OVERHANG	TRANSVERSE	2"
	LONGITUDINAL	1 5/8"
PARAPET	TRANSVERSE	2"
	LONGITUDINAL	1 5/8"

BUILDING SEPARATION = 6"

BUILDING PLAN / MODULE LAYOUT

COMMERCIAL INSTITUTIONAL

AND RESIDENTIAL MODULAR BUILDINGS

DESIGN & PLANNING

7001 Mc Divitt Dr.
Bakersfield, CA 93313
Office: (661) 835-9270
Fax: (661) 847-1007
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ORION

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11305 Rancho Bernard Rd., Suite 121
San Diego, CA 92137
PHONE: (658) 679-1974
FAX: (658) 679-1975

CODE: 2022 CBC

DSA APPLICATION NUMBER

02-120983

A separate project application for construction is required

RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
TYPICAL NOTES
DRAWING TITLE
TAFI PRIMARY
ELEN SCHOOL
212 LUCARD ST.
TAFI, CA 93268

DSA APP NO.

PROJECT NO.

06-0142

DRAWING

S1.1

STRUCTURAL OBSERVATION:

1. PER C.B.C. CHAPTER 17A, 1704A.6 THE OWNER SHALL EMPLOY A LICENSED ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, OR HIS DESIGNATED ENGINEER OR ARCHITECT TO MAKE SITE VISITS TO OBSERVE GENERAL COMPLIANCE WITH THE APPROVED STRUCTURAL PLANS, SPECIFICATIONS AND CHANGE ORDERS. THE ENGINEER OR ARCHITECT SHALL SUBMIT A STATEMENT IN WRITING TO THE BUILDING OFFICIAL STATING THAT THE SITE VISIT HAS BEEN MADE AND THAT ANY DEFICIENCIES NOTED HAVE BEEN CORRECTED.
2. IN ACCORDANCE WITH SECT. 4-333 (a) OF TITLE 24, PART 1, STRUCTURAL OBSERVATION SHALL INCLUDE AND OCCUR AT THE FOLLOWING STAGES:

A. OBSERVATION AT THE SITE PRIOR TO PLACING CONCRETE.

B. OBSERVATION OF THE BUILDING DURING FABRICATION AFTER THE MAJORITY OF STRUCTURAL ITEMS ARE IN PLACE.

C. OBSERVATION OF THE COMPLETED STRUCTURE PRIOR TO BEING COVERED FINISHES.
3. AT COMPLETION OF IN-PLANT MANUFACTURING THE INDIVIDUAL ACCEPTING RESPONSABILITY FOR OBSERVATION OF IN-PLANT MANUFACTURING SHALL SING THE VERIFIED REPORT, DSA 152-IP1 (IN-PLANT INSPECTOR VERIFIED REPORT).
4. OBSERVATION OF THE ON SITE CONSTRUCTION INCLUDES THE SCOPE OF WORK INDICATED ON THE DSA APPROVED MODULAR BUILDING PLANS AND SPECS.
5. INTERIM AND FINAL VERIFIED REPORTS ARE REQUIRED DURING, AND AT THE COMPLETION OF, ON SITE CONSTRUCTION AND INSTALLATION USING FORM DSA 6-AE (ARCHITEC/ENGINEER VERIFIED REPORT).
6. STRUCTURAL TESTING & SPECIAL INSPECTIONS: SEE APPROVED DSA-103 FORM FOR STRUCTURAL TESTING & INSPECTIONS.

ABBREVIATIONS:

&

@

©

ℙ

A.B.

ADJ

A.F.F.

ARCH'L

BD

BLD'G

BLK

BLK'G

BLW

BM

B.N.

BOT.

BRG

B.S.

BTWN

C.B.

C.F.

CHAM

C.I.

C.I.P.

C.J.

CLG

CLK

CLK'G

CLR.

C.M.U.

CNTR

COL

CONC

CONN

CONT

CNTRSINK

d

DBL

DEP

DET

D.F.

D.F.L.

DIA

DIAG

DIAM.

D.L.

DN

DIV

DR

DWG

DWL

EA

E.F.

EL.

ELEV.

EMBED

E.N.

EQ.

EQUIP

E.S.

E.W.

EXIST'G

EXP

EXT

F.D.

FDN

F.F.

FIN.

FLR.

F.N.

F.O.

FRM'G

F.S.

FT

FTG

GA

GALV

G.I.

GLB

GRD

GYP

H.D.

HDR

HGR

HORIZ

HRD

H.S.B.

HT.

HVAC

IN

INSP.

INT.

JST

JT

AND

AT

CENTER LINE

PLATE, PROPERTY LINE

ANCHOR BOLT

ADJACENT

ABOVE FINISH FLOOR

ARCHITECTURAL

BOARD

BUILDING

BLOCK

BLOCKING

BELOW

BEAM

BOUNDARY NAIL/SCREW

BOTTOM

BEARING

BOTH SIDE

BETWEEN

CARRIAGE BOLT

CUBIC FOOT

CHAMFER

CAST-IRON

CAST-IN-PLACE

CONTROL JOINT

CEILING

CAULK

CAULKING

CLEAR

CONCRETE MASONRY UNIT

CENTER

COLUMN

CONCRETE

CONNECTION

CONTINUOUS

COUNTERSINK

PENNY

DOUBLE

DEPRESSED

DETAIL

DOUGLAS FIR

DOUGLAS FIR/LARCH

DIAMETER

DIAGONAL

DIMENSION

DEAD LOAD

DOWN

DIVISION

DOOR

DRAWING

DOWEL

EACH

EACH FACE

ELEVATION

ELEVATION / ELEVATOR

EMBEDMENT

EDGE NAIL/SCREW

EQUAL

EQUIPMENT

EACH SIDE

EACH WAY

EXISTING

EXPANSION

EXTERIOR

FLOOR DRAIN

FOUNDATION

FINISH FLOOR

FINISH

FLOOR

FIELD NAIL

FACE OF

FRAMING

FAR SIDE

FEET / FOOT

FOOTING

GAUGE

GALVANIZED

GALVANIZED IRON

GLU-LAMINATED BEAM

GRADE

GYP SUM

HOLDOWN

HEADER

HANGER

HORIZONTAL

HARD

HIGH STRENGTH BOLT

HEIGHT

HEATING, VENTILATION, & AIR CONDITIONING

INCH

INSPECTION / INSPECTOR

INTERIOR

JOIST

JOINT

KIPS

K.O.

LB

L.B.

L.F.

LG

L.L.

L.L.H.

L.L.V.

L.S.

LT.

MAS

MAT.

MAX.

M.B.

MECH'L

MEZZ.

MIN.

M.H.

MANUF.

MTL.

N.S.

N.I.C.

NOM.

N.T.S.

O.C.

O.D.

O.H.

OPN'G

OPP

O.W.J.

P.C.

PERP.

PLYWD

PNL

PREFAB

P.S.F.

P.S.I.

PT

P.T.

P.V.C.

RAD

R.D.

REF.

REINF.

REQ'D

REV

RF

RFT

R.H.

RM

R.O.

R.S.

SCHED.

SECT.

S.F.

SHT

SHT'G

SIM.

S.M.S.

SPEC.

SQ.

S.S.

STAGG.

STD

STIFF.

STL

STRUCT'L

STS

SYM

SYS

T & B

T & G

TEMP

THK

THKN'D

THRU

T.L.

T.O.

T.S.G.

TYP.

U.N.O.

U.T.

VERT.

W/

W/O

WD

WIN

W.P.J.

WT.

W.W.F.

W.W.M.

KILOPOUNDS (1,000 POUNDS)

KNOCK OUT

POUND

LAG BOLT

LINEAR FOOT

LONG

LIVE LOAD

LONG LEG HORIZONTAL

LONG LEG VERTICAL

LAG SCREW

LIGHT

MASONRY

MATERIAL

MAXIMUM

MACHINE BOLT

MECHANICAL

MEZZANINE

MINIMUM

MANHOLE

MANUFACTURER

METAL

NEAR SIDE

NOT IN CONTRACT

NOMINAL

NOT TO SCALE

ON CENTER

OUTSIDE DIAMETER

OPPOSITE HAND

OPENING

OPPOSITE

OPEN WEB JOIST

PRECAST

PERPENDICULAR

PLYWOOD

PANEL

PREFABRICATED

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCHES

POINT

PRESSURE TREATED

POLYVINYL CHLORIDE

RADIUS

ROOF DRAIN

REFERENCE

REINFORCED / REINFORCING

REQUIRED

REVISION

ROOF

RAFTER

ROOF HATCH

ROOM

ROUGH OPENING

ROUGH SAWN

SCHEDULE

SECTION

SQUARE FOOT

SHEET

SHEETING

SIMILAR

SHEET METAL SCREW

SPECIFICATION

SQUARE

STAINLESS STEEL

STAGGERED

STANDARD

STIFFENER

STEEL

STRUCTURAL

SELF TAPPING SCREW

SYMMETRICAL

SYSTEM

TOP AND BOTTOM

TONGUE AND GROOVE

TEMPORARY

THINK

THICKENED

THROUGH

TOTAL LOAD

TOP OF

TAPERED STEEL GIRDER

TYPICAL

UNLESS NOTED OTHERWISE

ULTRASONIC TESTING

VERTICAL

WITH

WITHOUT

WOOD

WINDOW

WATERPROOF / WORK POINT

WEAKENED PLANE JOINT

WEIGHT

WELDED WIRE FABRIC

WELDED WIRE MESH

MINIMUM NAILING SCHEDULE BASE ON CBC TBL 2304.10.1

CONNECTION	NAILING ¹
SOLE PLATE to joist or blocking, typical face nail	16d at 16" o.c.
SOLE PLATE to joist or blocking, at braced wall panels	16d at 16" o.c.
TOP PLATE to stud, end nail	2-16d
STUD to sole plate	4-8d toenail, or 2-16d end nail
DOUBLE STUD, face nail	16d at 24" o.c.
DOUBLE TOP PLATES, typical face nail	16d at 16" o.c.
DOUBLE TOP PLATE, lap splice	8-16d
BLOCKING between joists or rafters to top plate, toenail each end	3-8d
RIM JOIST to top plate, toenail	8d at 6" o.c.
TOP PLATE, lap at intersections, face nail	2-16d
HEADER, two pieces	16d at 16" o.c. along each edge
CEILING JOISTS to plate, toenail	3-8d
BUILT-UP HEADER to stud, toenail	4-8d
CEILING JOISTS, laps over partitions, face nail	3-16d
CEILING JOISTsto parallel rafters, face nail	3-16d
RAFTERS to plate, toenail	3-8d
BUILD-UP CORNER studs (2x members)	16d at 24" o.c.
BUILD-UP GIRDERS and BEAMS (2x members)	20d at 32" o.c. at top and bottom and staggered on opposite side 2- 20d at ends and at each splice
JOIST to band joist, face nail	3-16d
LEDGER STRIP, face nail	3-16d

1. COMMON NAILS SHALL BE USED EXCEPT WHERE OTHERWISE STATED.

6d NAIL - 2" x 0.113"ø

8d NAIL - 2 1/2" x 0.131"ø

10d NAIL - 3" x 0.148"ø

16d NAIL - 3 1/2" x 0.162"ø

20d NAIL - 4" x 0.192"ø
2. 1" (INCH) = 25.4 mm

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DATE: 10/10/2023

PROJECT NUMBER

CODE: 2022 CBC

DSA APPLICATION NUMBER

02-120983

A separate project application for construction is required

RELOCATABLE

SLAB ON GRADE BUILDING MODEL

40'-0" WIDE MODULAR BUILDING

DRAWING TITLE

TYPICAL NOTES

TAFI PRIMARY

ELEM SCHOOL

212 LUCARD ST.,

TAFI, CA 93268

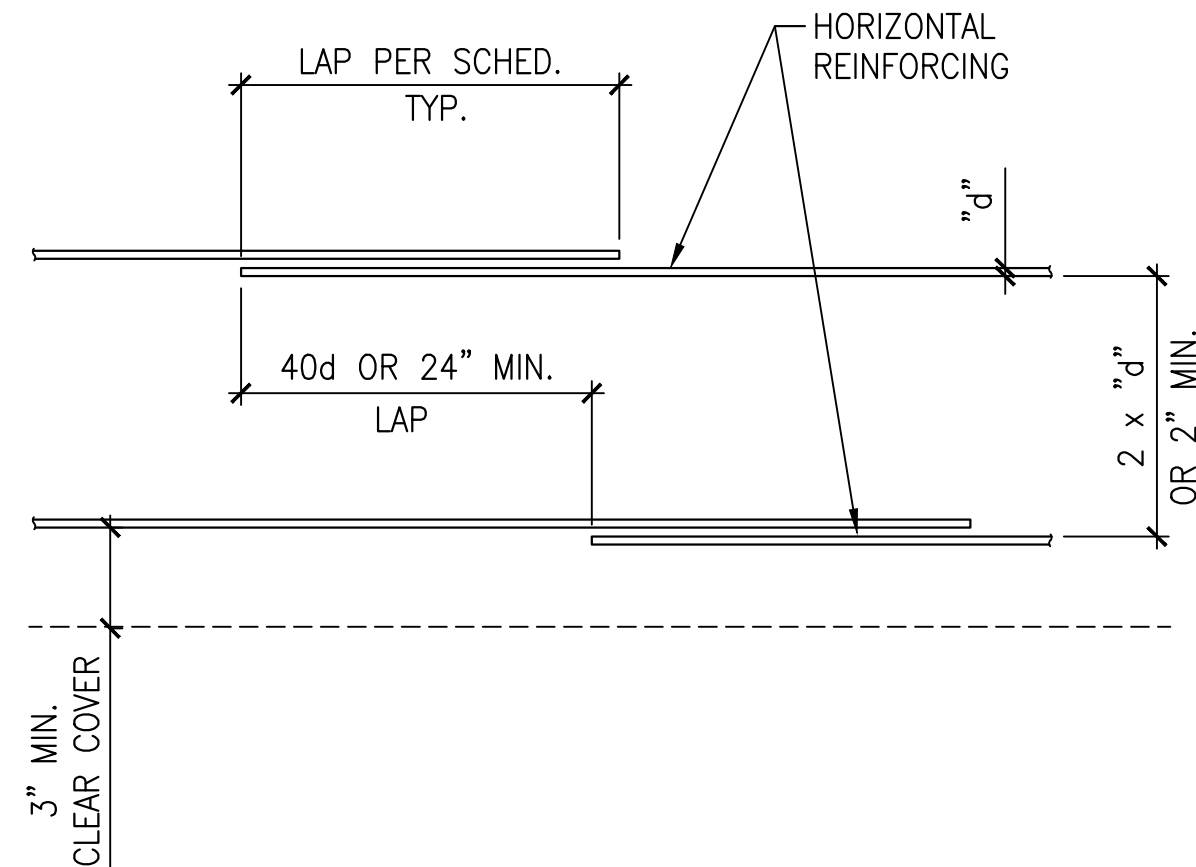
DSA APP NO.

PROJECT NO.

06-0142

DRAWING

S1.3

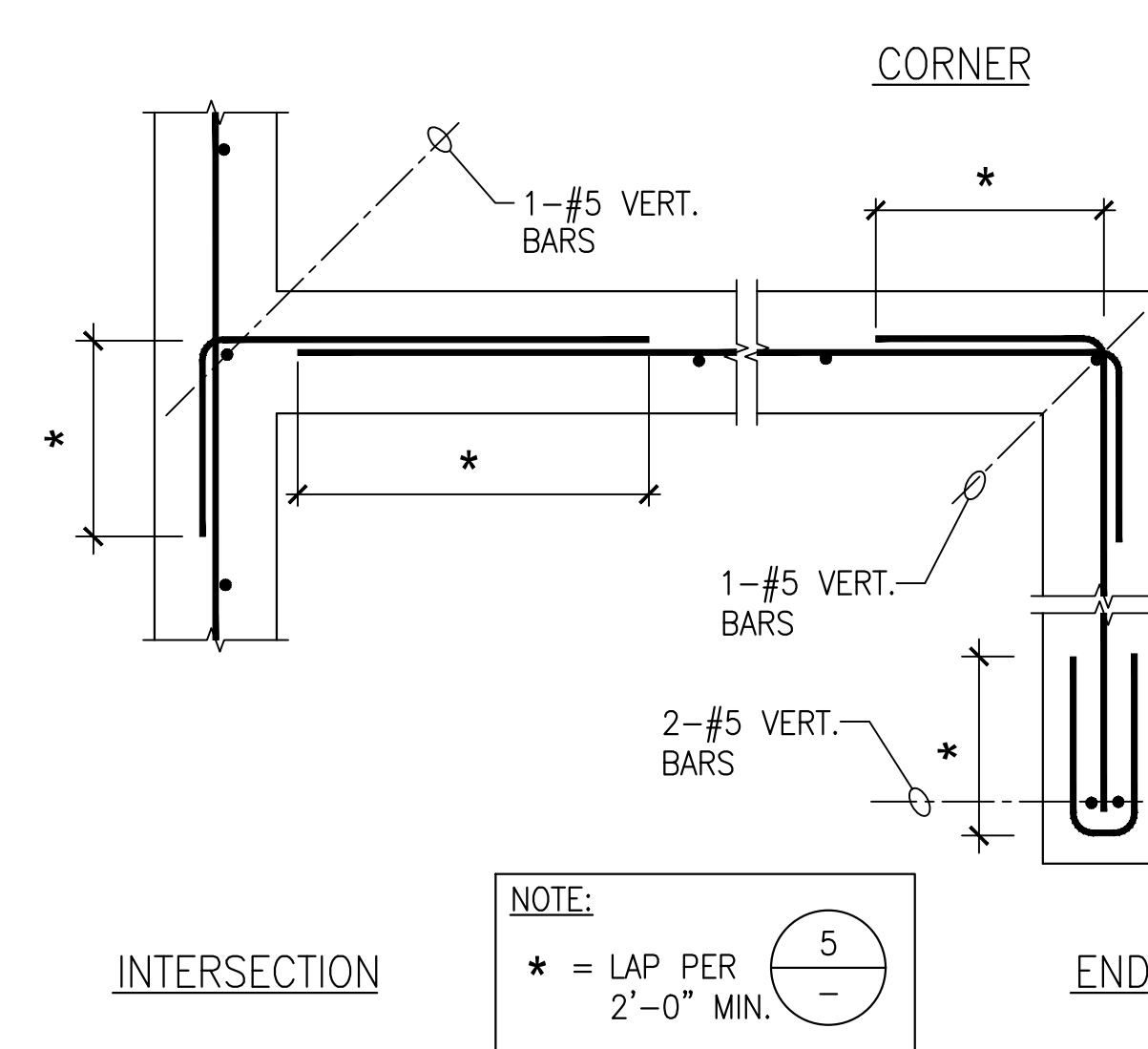
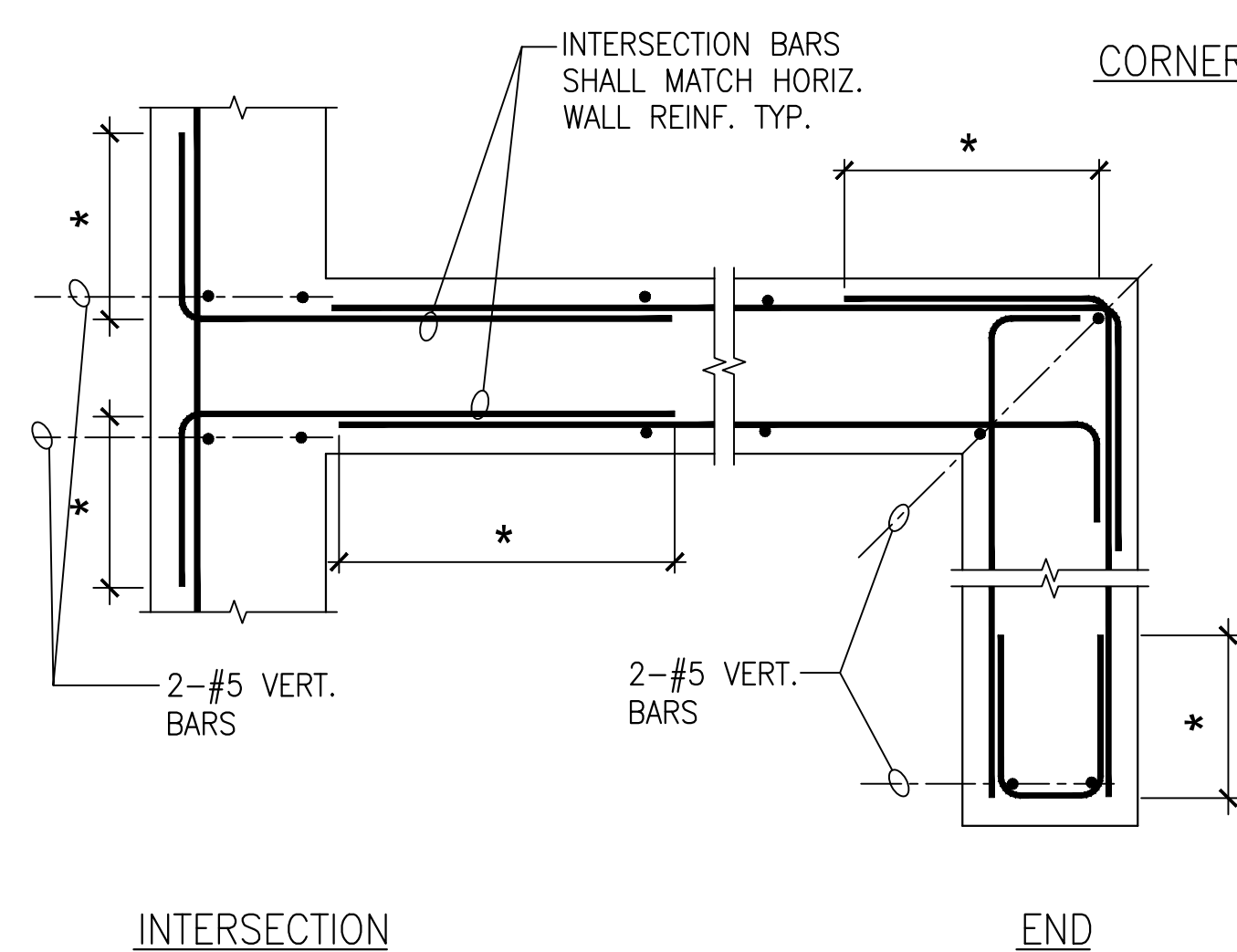


CONC. F _c P.S.I.	BAR SIZE					
	#3	#4	#5	#6	#7	#8
	TENSION LAP SPLICES, INCHES					
3,500	24	29	36	43	63	72

HARDROCK CONCRETE
F_y = 60,000 P.S.I.

NOTES:

1. SPLICE LENGTH SHALL BE DETERMINED FROM DEVELOPMENT LENGTH OF THE LARGER BAR.
2. FOR BARS WITH 12" OR MORE FRESH CONCRETE BELOW MULTIPLY ABOVE VALUES BY 1.3



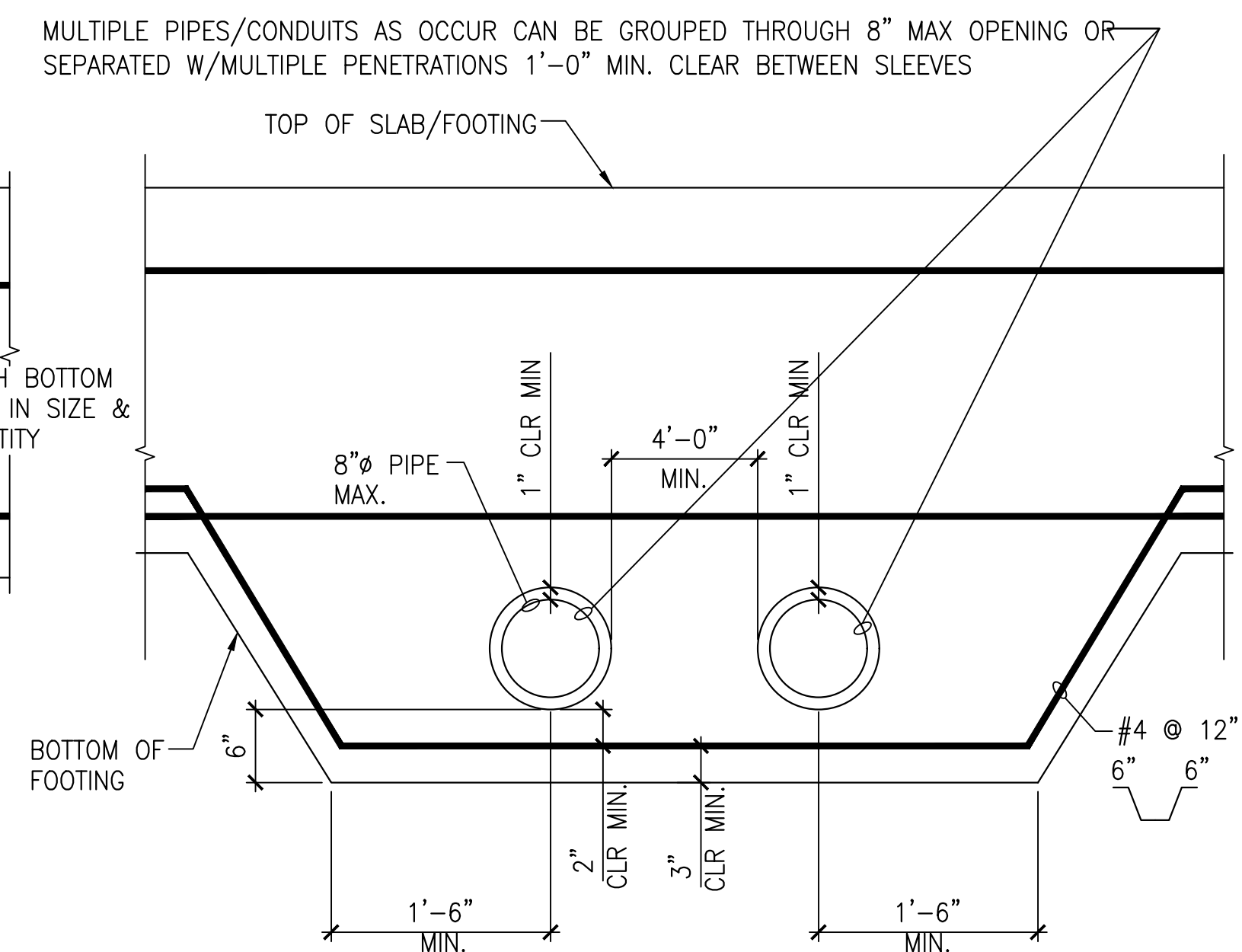
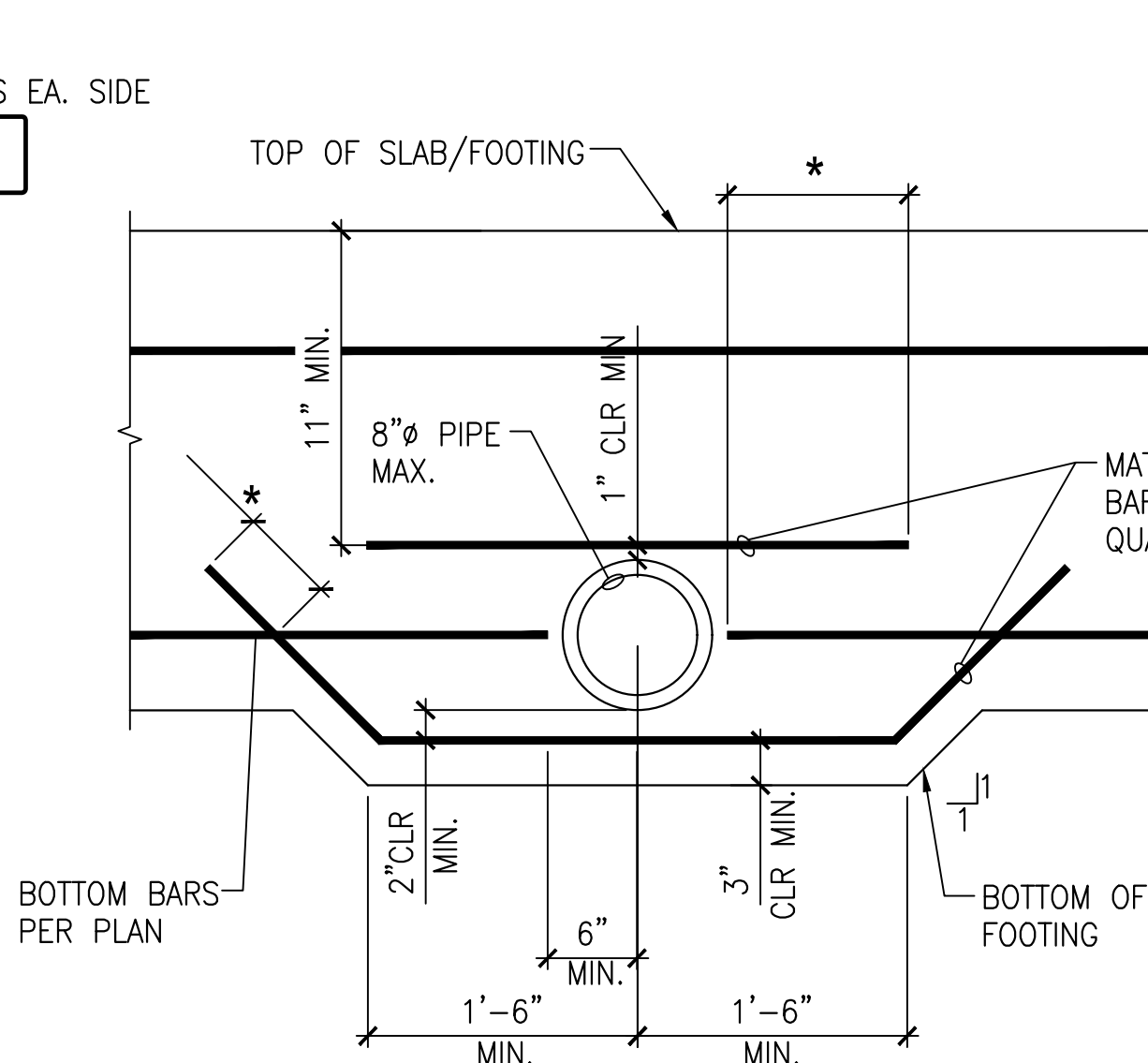
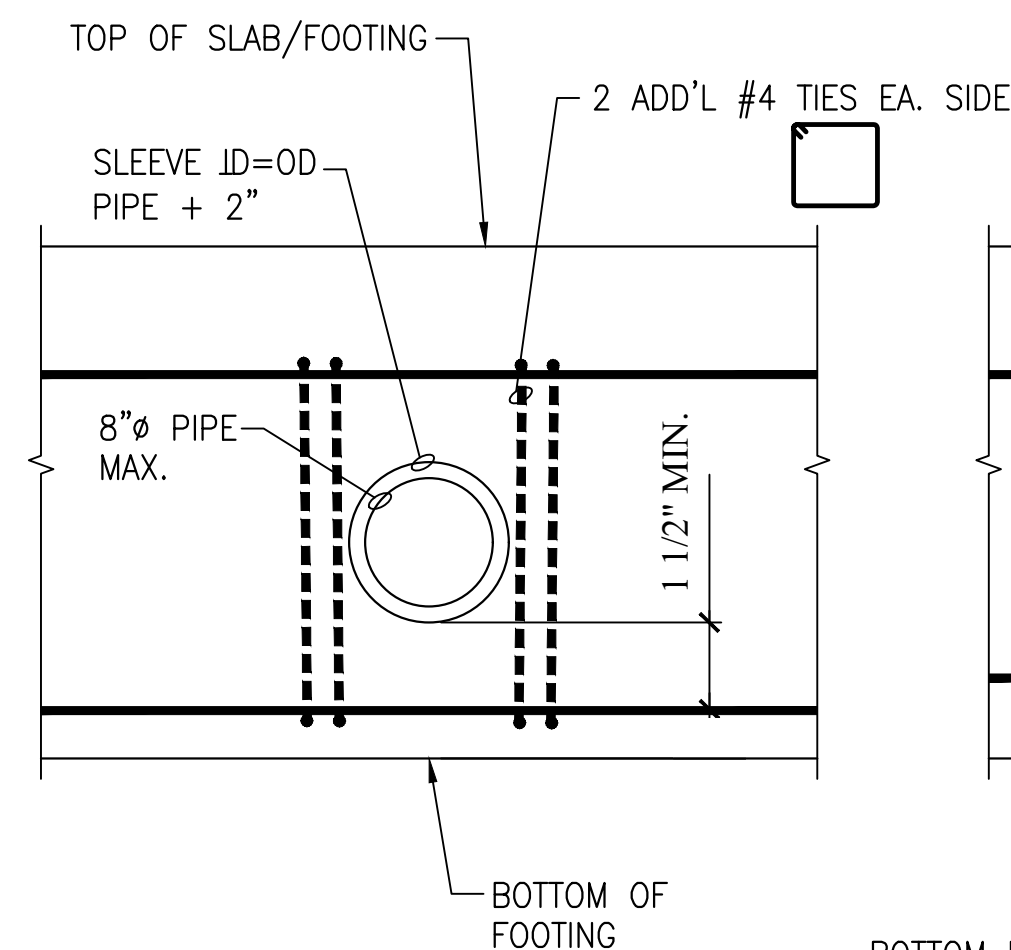
NOTE:
* = LAP PER
2'-0" MIN.

TYPICAL HORIZONTAL REINFORCING – TENSION & COMPRESSION LAP SPLICE

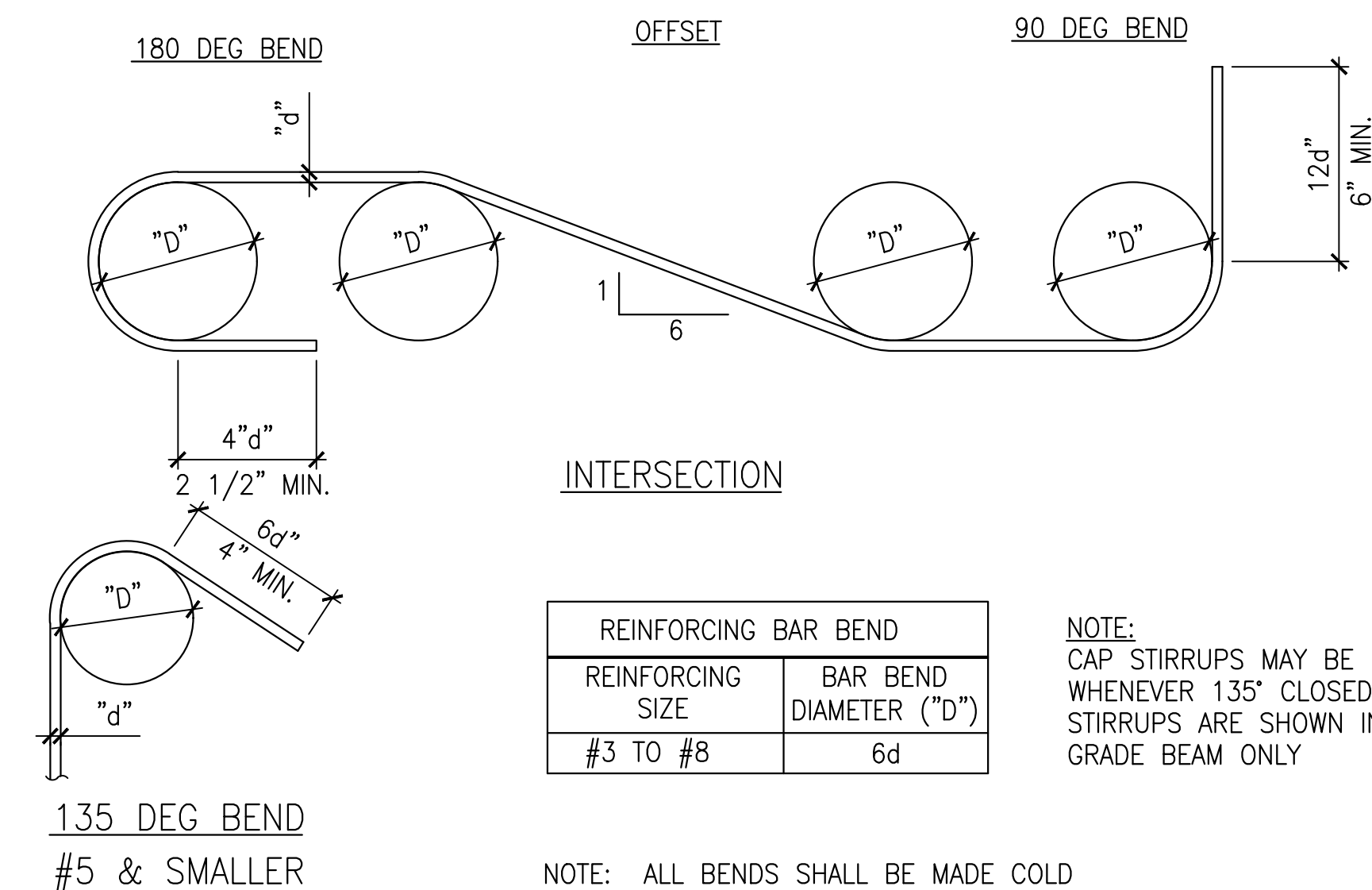
5 TYPICAL CONCRETE FOOTING REBAR – PLAN VIEW

NOTES:

1. MAXIMUM NUMBER OF SLEEVES THROUGH ANY 20' SECTION OF FOOTING NOT TO EXCEED 4 IN ANY CONFIGURATION (4 INDIVIDUAL SLEEVES, 2-PAIRS, 2 INDIVIDUAL + 1 PANEL).
2. MINIMUM SPACING BETWEEN INDIVIDUAL SLEEVES IS 6'-0"

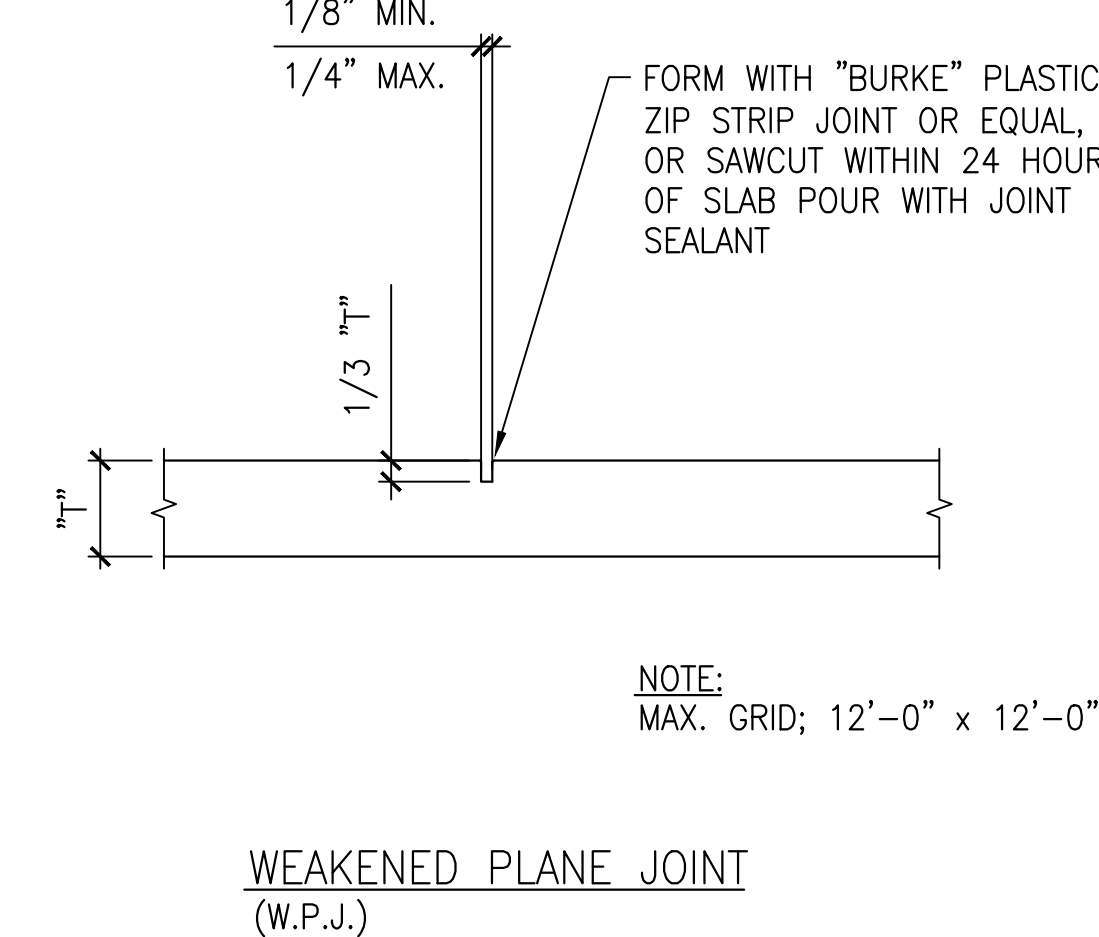
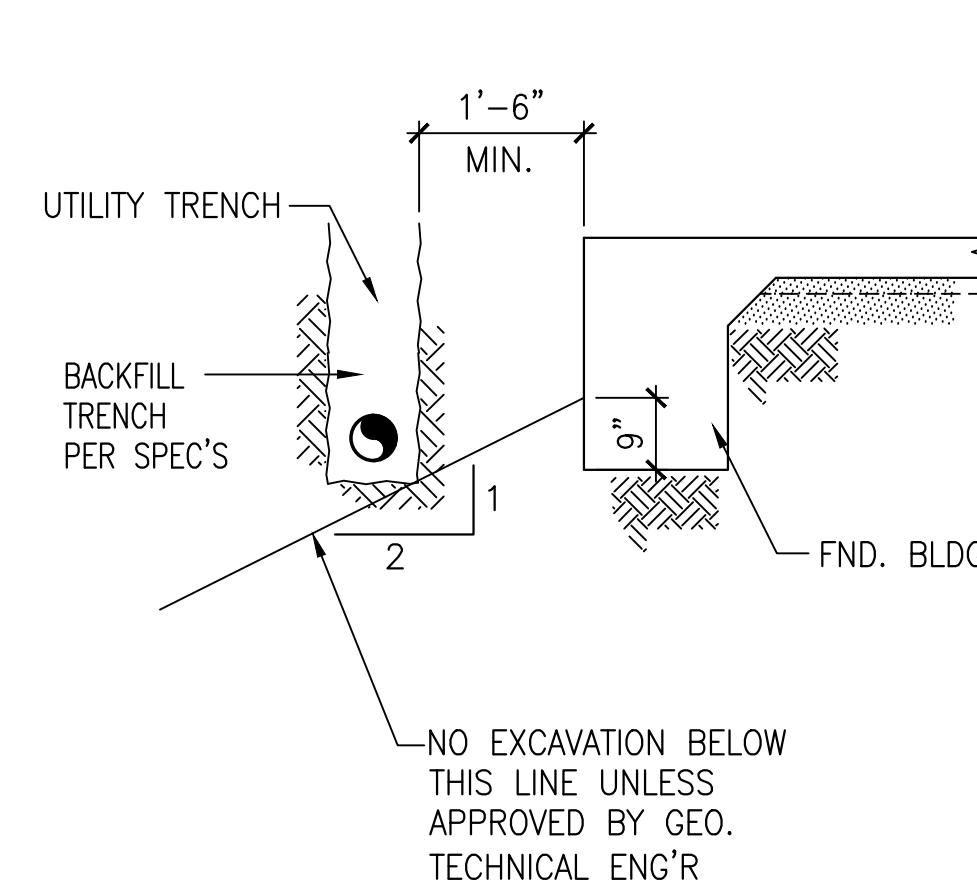


TYPICAL PIPE THRU FOOTING



REINFORCING BAR BEND	
REINFORCING SIZE	BAR BEND DIAMETER ("D")
#3 TO #8	6d

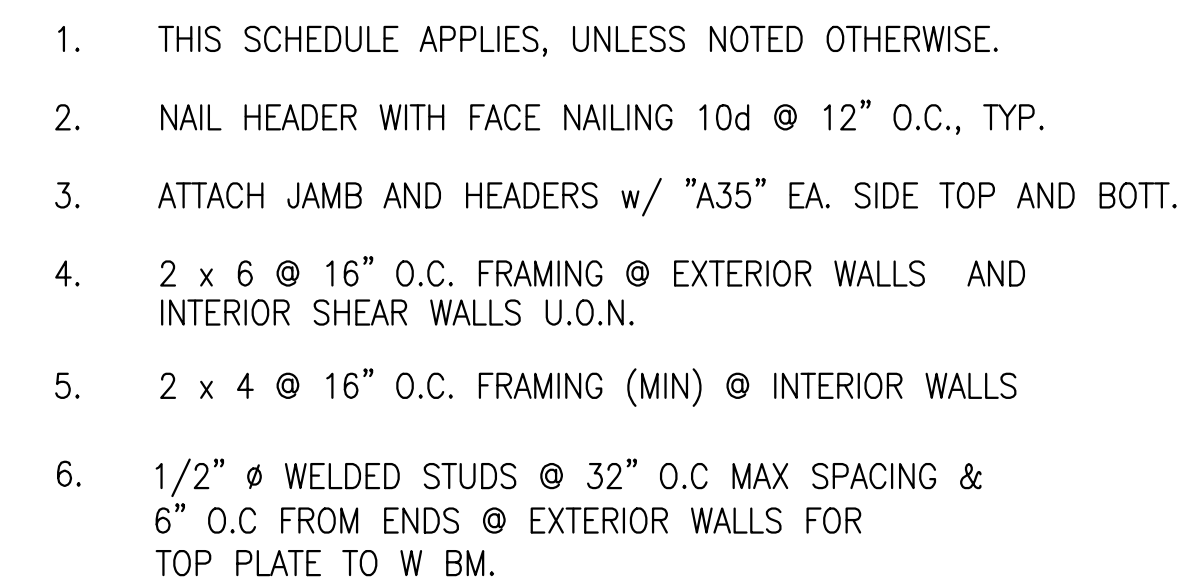
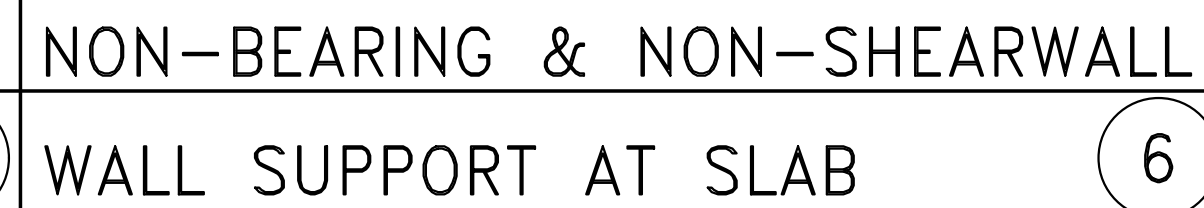
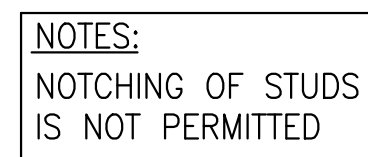
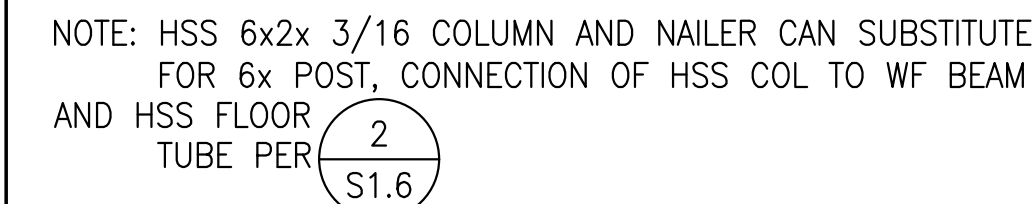
NOTE:
CAP STIRRUPS MAY BE USED
WHENEVER 135° CLOSED
STIRRUPS ARE SHOWN IN
GRADE BEAM ONLY



TYPICAL BAR BENT

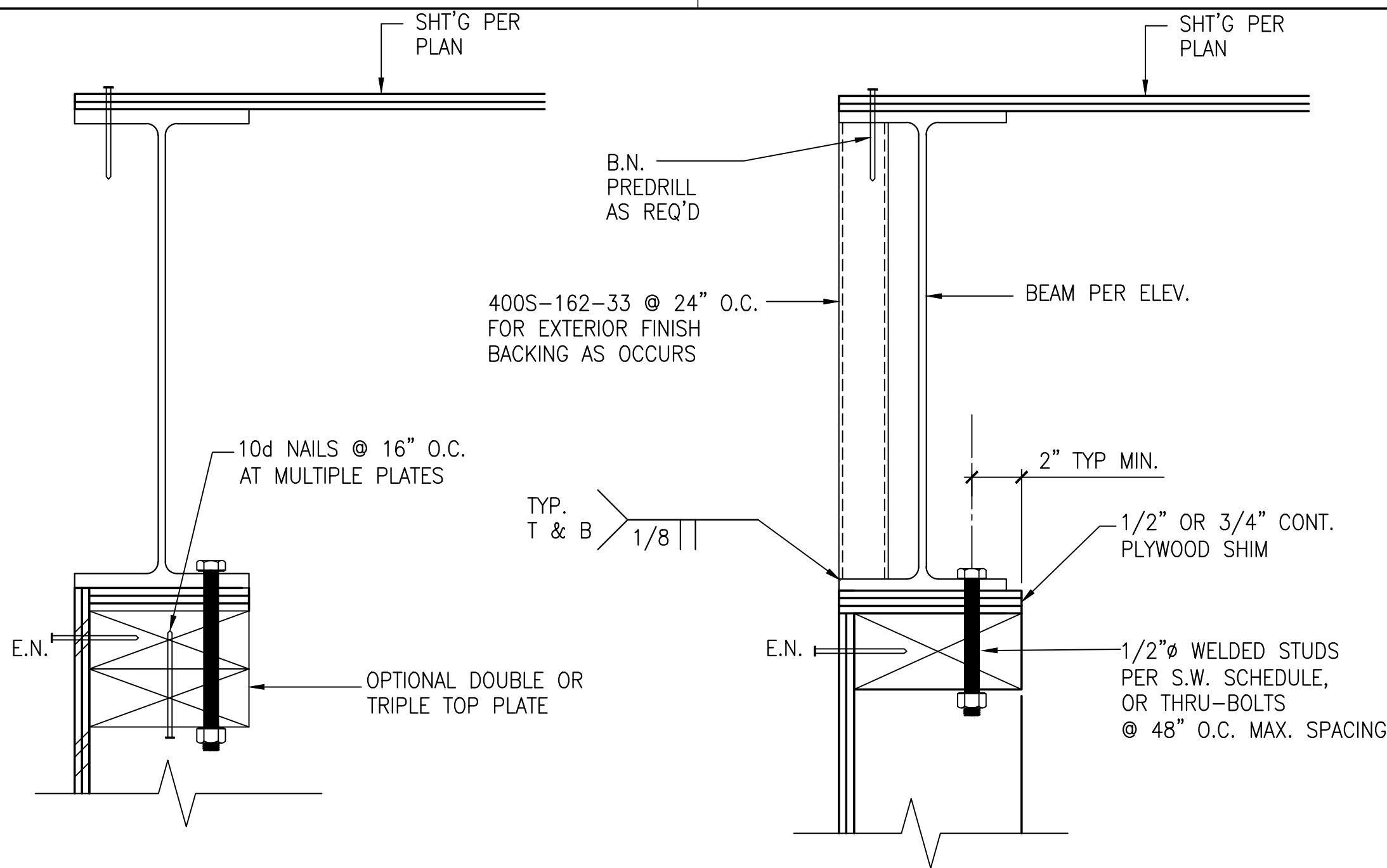
UTILITY TRENCH ADJACENT TO CONT. FTG

TYPICAL WEAKENED PLANE JOINT



1. THIS SCHEDULE APPLIES, UNLESS NOTED OTHERWISE.
2. NAIL HEADER WITH FACE NAILING 10d @ 12" O.C., TYP.
3. ATTACH JAMB AND HEADERS w/ "A35" EA. SIDE TOP AND BOTTL.
4. 2 x 6 @ 16" O.C. FRAMING @ EXTERIOR WALLS AND INTERIOR SHEAR WALLS U.O.N.
5. 2 x 4 @ 16" O.C. FRAMING (MIN) @ INTERIOR WALLS
6. 1/2" Ø WELDED STUDS @ 32" O.C MAX SPACING & 6" O.C FROM ENDS @ EXTERIOR WALLS FOR TOP PLATE TO W BM.

S1.5



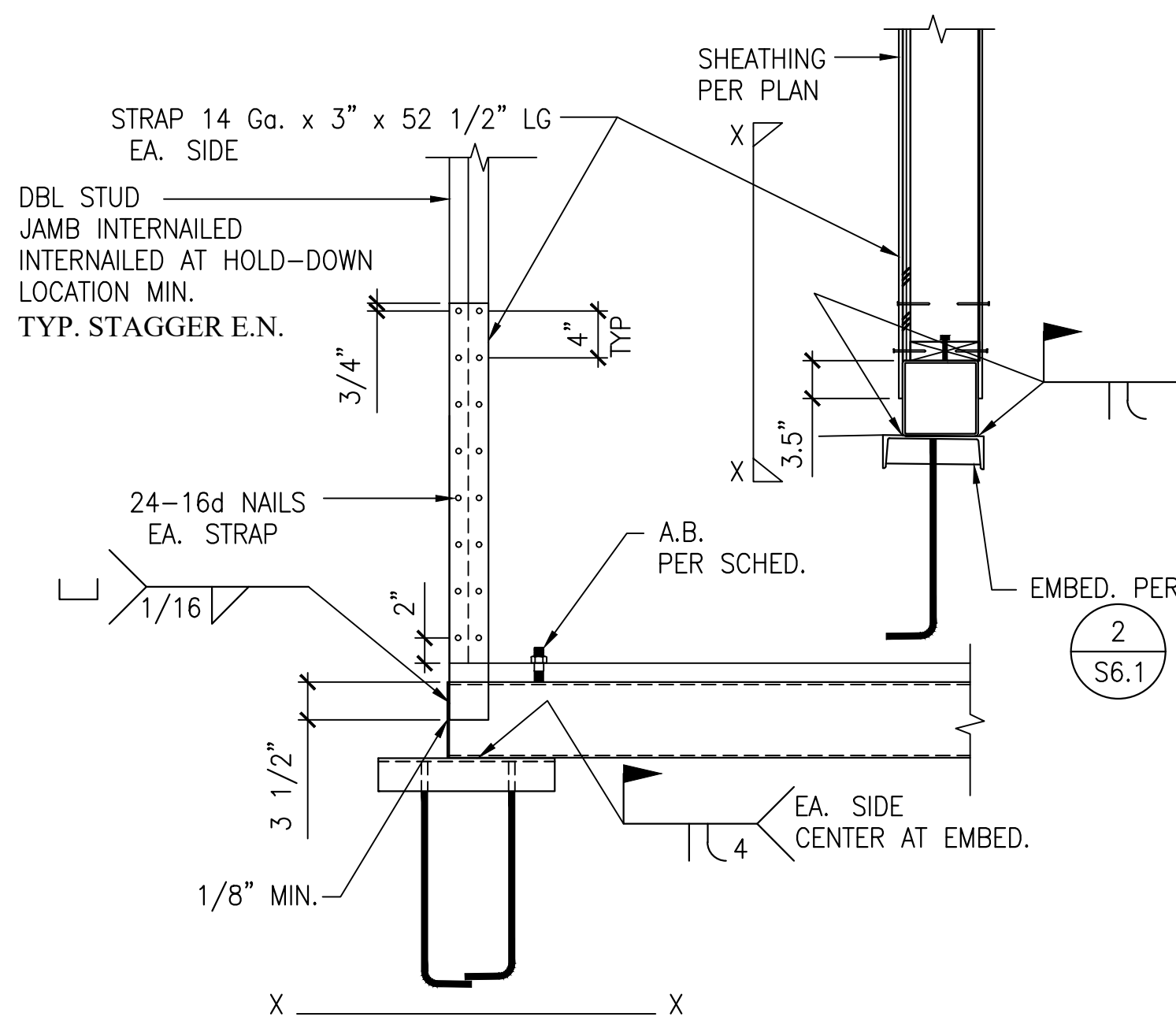
BEARING WALL/SHEARWALL TO FRAME

MARK	STRUCT. SHEATHING	NAILING	PANEL					WALL (LRFD) (LB./FT.)		1/2" Ø ANCHOR BOLT/ WELDED STUD SPACING
			EDGE NAILING	FIELD NAILING	END STUD	SILL PLATE	TOP PLATE	SEISMIC	WIND	
A	15/32" STRUCT I PLYWOOD	10d	6" O.C.	12" O.C.	2x	2x	2x	475	760	12" O.C.
B	15/32" STRUCT I PLYWOOD	10d	3" O.C.	12" O.C.	3x	3x	3x	930	1488	8" O.C.

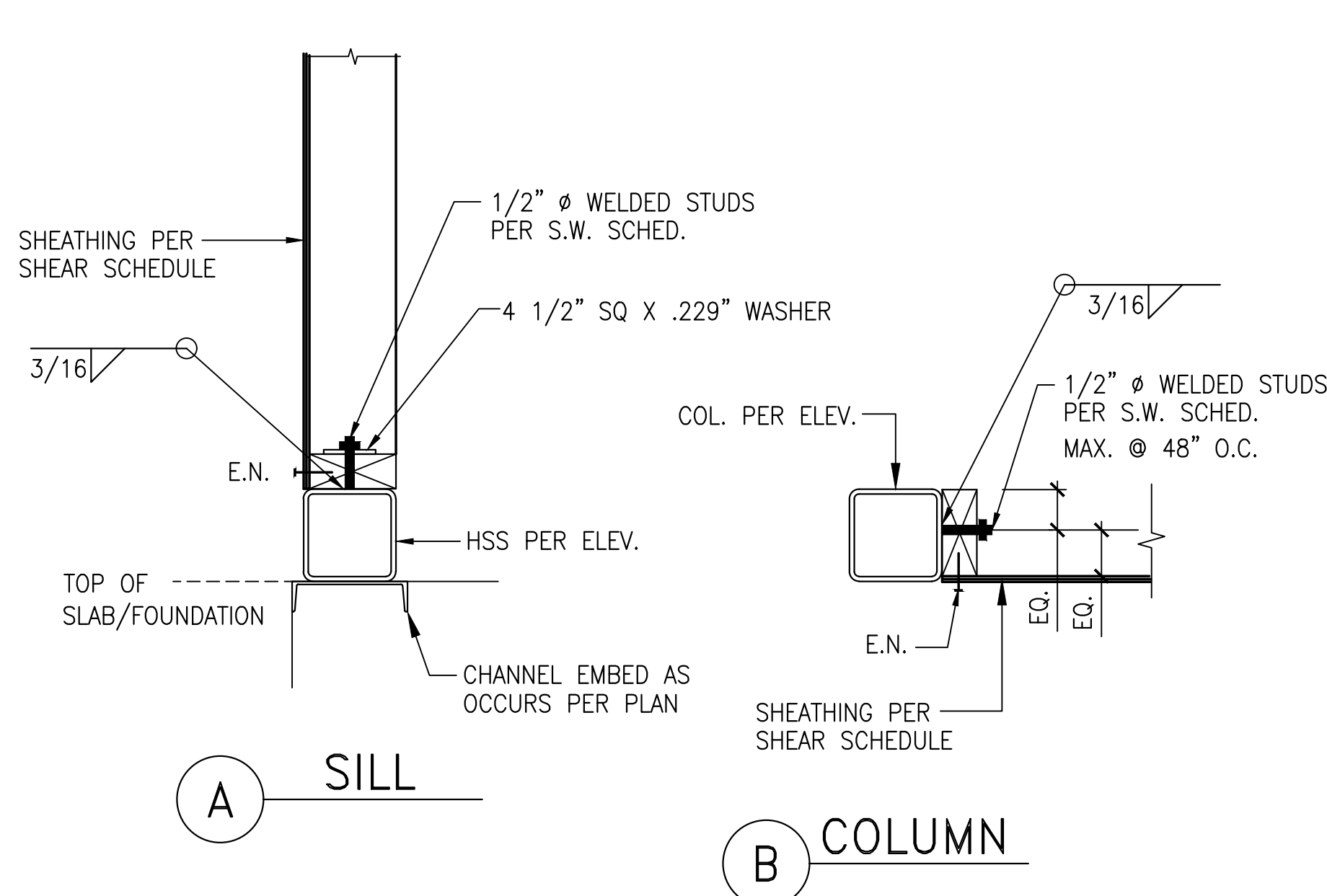
NOTES:

- ALL NAILS SHALL BE COMMON WIRE NAILS. 10d COMMON WIRE SHALL BE 0.148" Ø x 3"
- PLYWOOD SHALL CONFORM TO PRODUCT STANDARD PS-1 & PS-2, LATEST EDITION & SHALL BE BONDED w/ STRUCTURAL 1 32/16 SPAN RATING 5 PLY
- PLYWOOD PANELS MAY BE APPLIED EITHER VERTICALLY OR HORIZONTALLY, BUT ALL EDGES SHALL BE NAILED TO STUDS, PLATES OR BLOCKING.
- HOLES IN PANELS ARE NOT PERMITTED UNLESS DETAILED BY THE ENGINEER.
- MINIMUM WIDTH OF PLYWOOD SHALL BE 2'-0" ALTHOUGH 4'-0" x 8'-0" SHEETS SHOULD BE USED WHERE POSSIBLE.
- STAGGER NAILS AT ALL 3x MEMBERS.
- MINIMUM 3/8" NAILING EDGE DISTANCE.
- PROVIDE 0.229" THICK BY 4 1/2" x 4 1/2" SILL PLATE WASHERS UNDER THE BOLT HEAD.
- MIN. OF TWO ANCHOR BOLT/WELDED STUD PER SILL PLATE. A.B./WELDED STUD TO BE PLACED MIN. 4" FROM END OF SILL PLATE AND MAXIMUM OF 12" FROM END OF SILL PLATE.

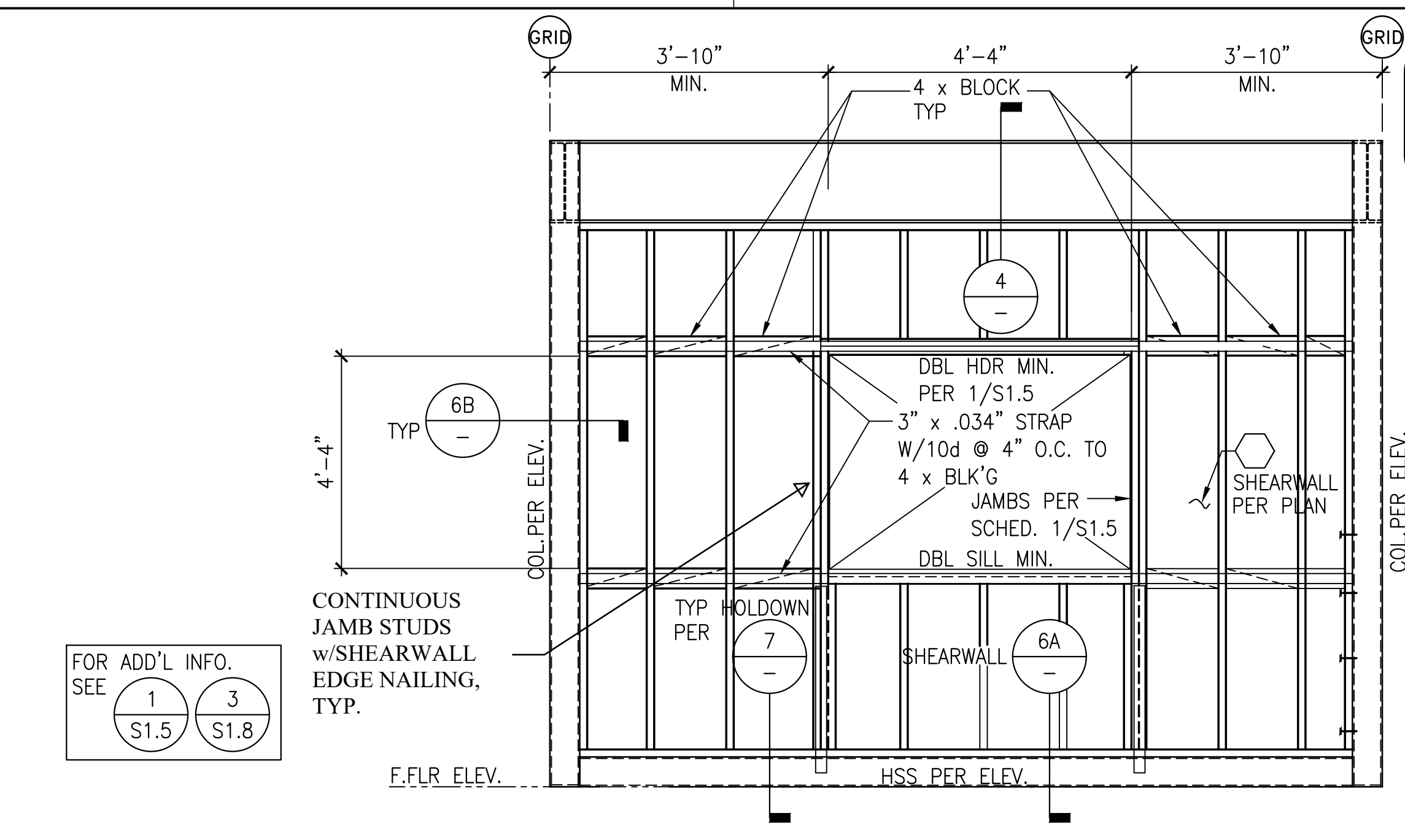
SHEARWALL SCHEDULE



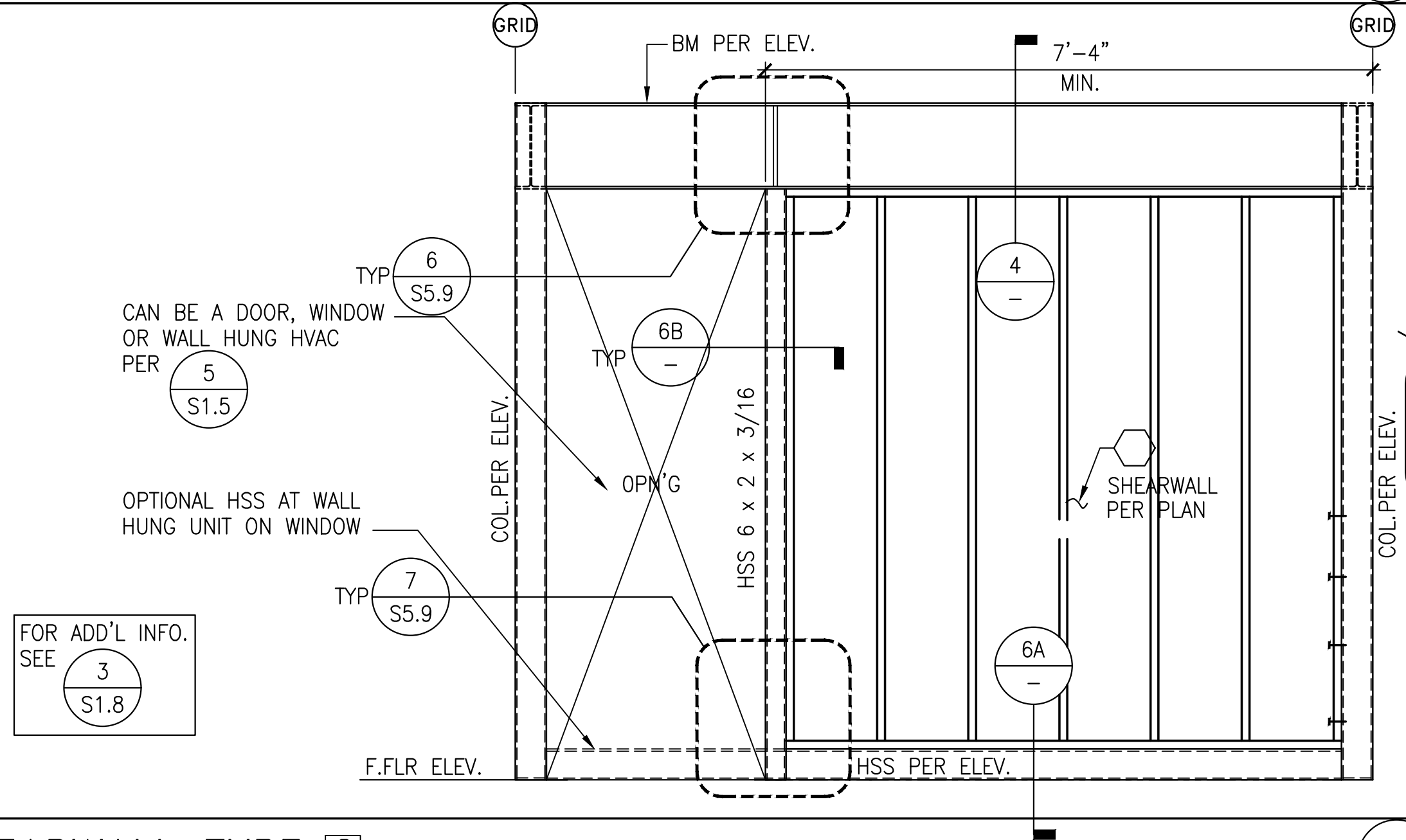
HOLD DOWN



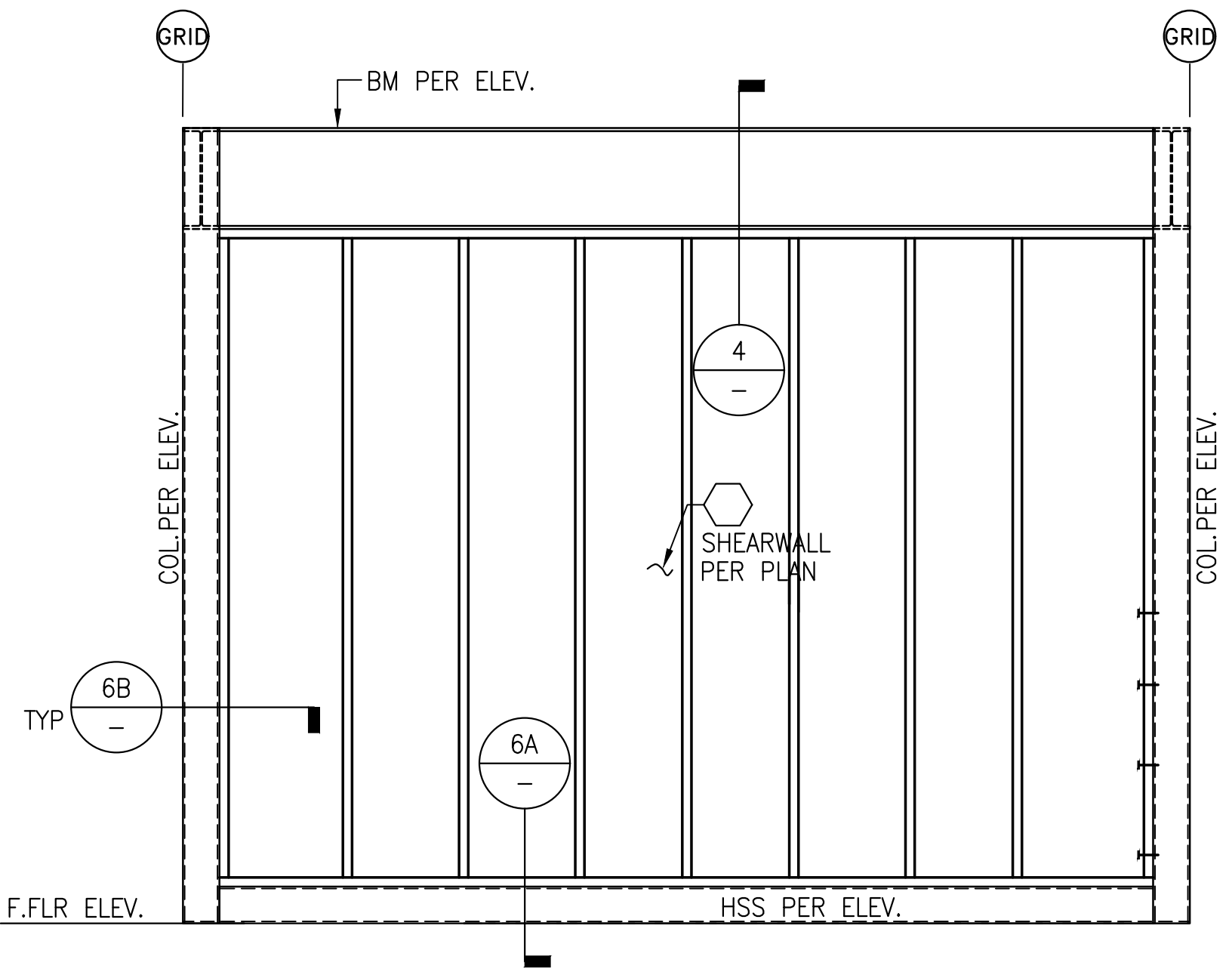
SHEARWALL TO FRAME



SHEARWALL TYPE 1



SHEARWALL TYPE 2



SHEARWALL TYPE 3

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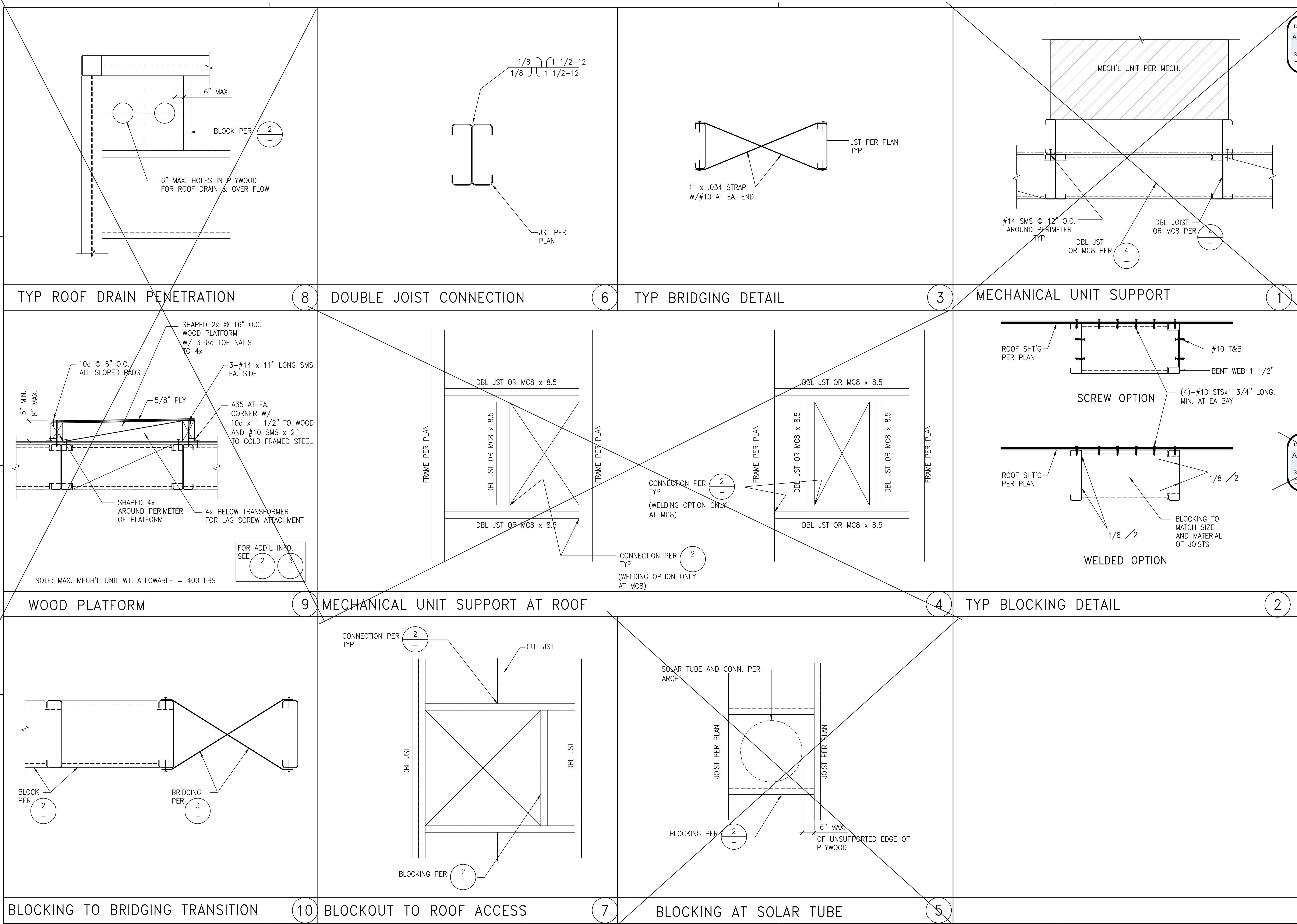
CODE: 2022 CBC
DSA APPLICATION NUMBER
02-120983
A separate project
application for construction
is required

RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
TYPICAL DETAILS WOOD
FRAMED SHEARWALL
TAFI PRIMARY
ELEM SCHOOL
212 LUCARD ST.
TAFI, CA 93268

DSA APP NO.

PROJECT NO.
06-0142

DRAWING
S1.6

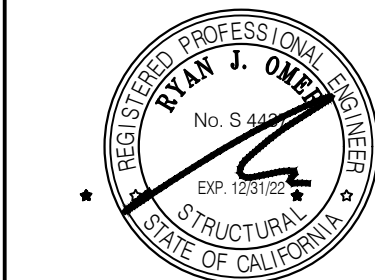


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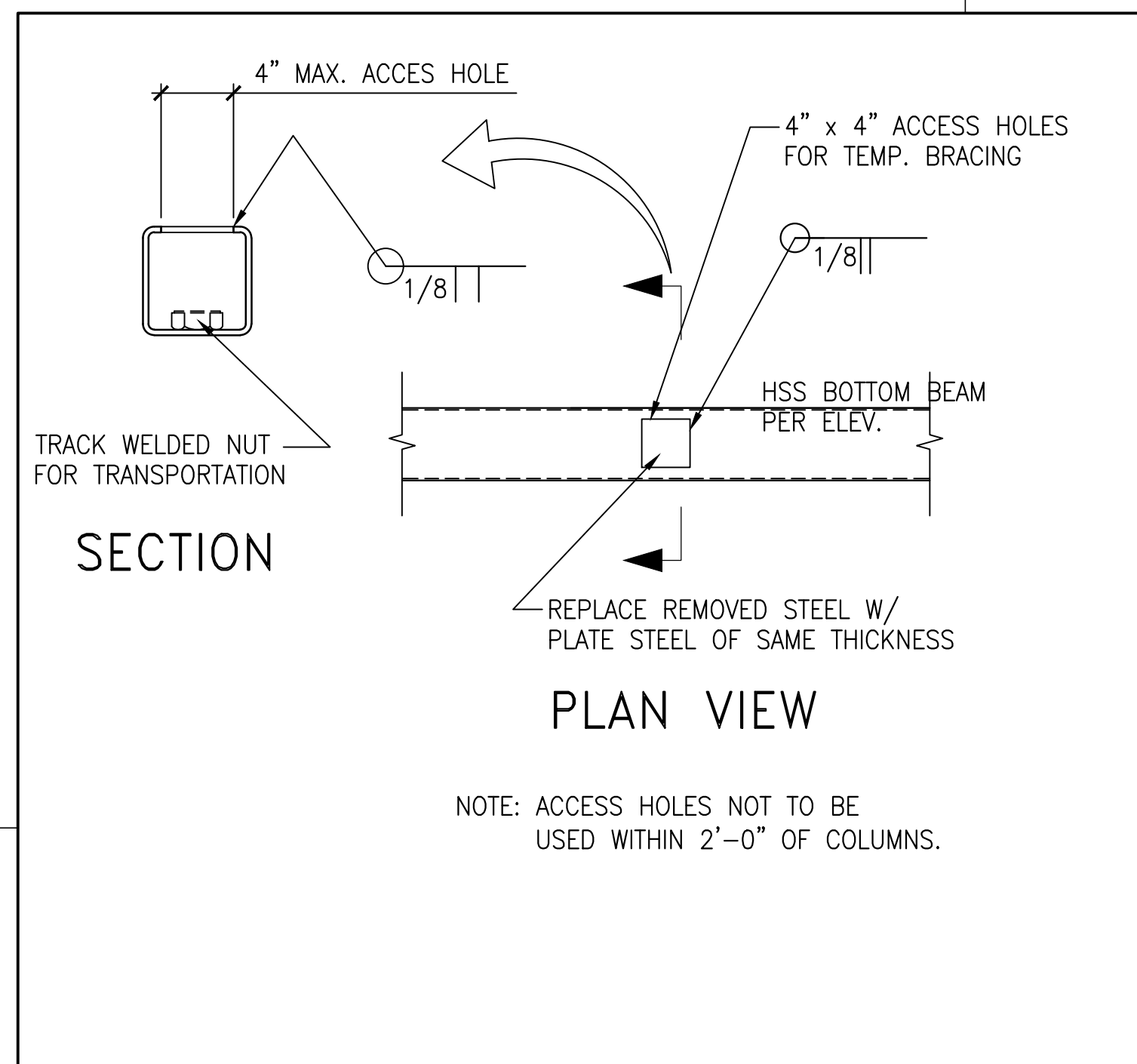
RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
TYPICAL DETAILS
ROOF FRAMING
TAFI PRIMARY
ELEMENT SCHOOL
212 LUCARD ST.
TAFI, CA 93268

DSA APP NO.

PROJECT NO.
06-0142

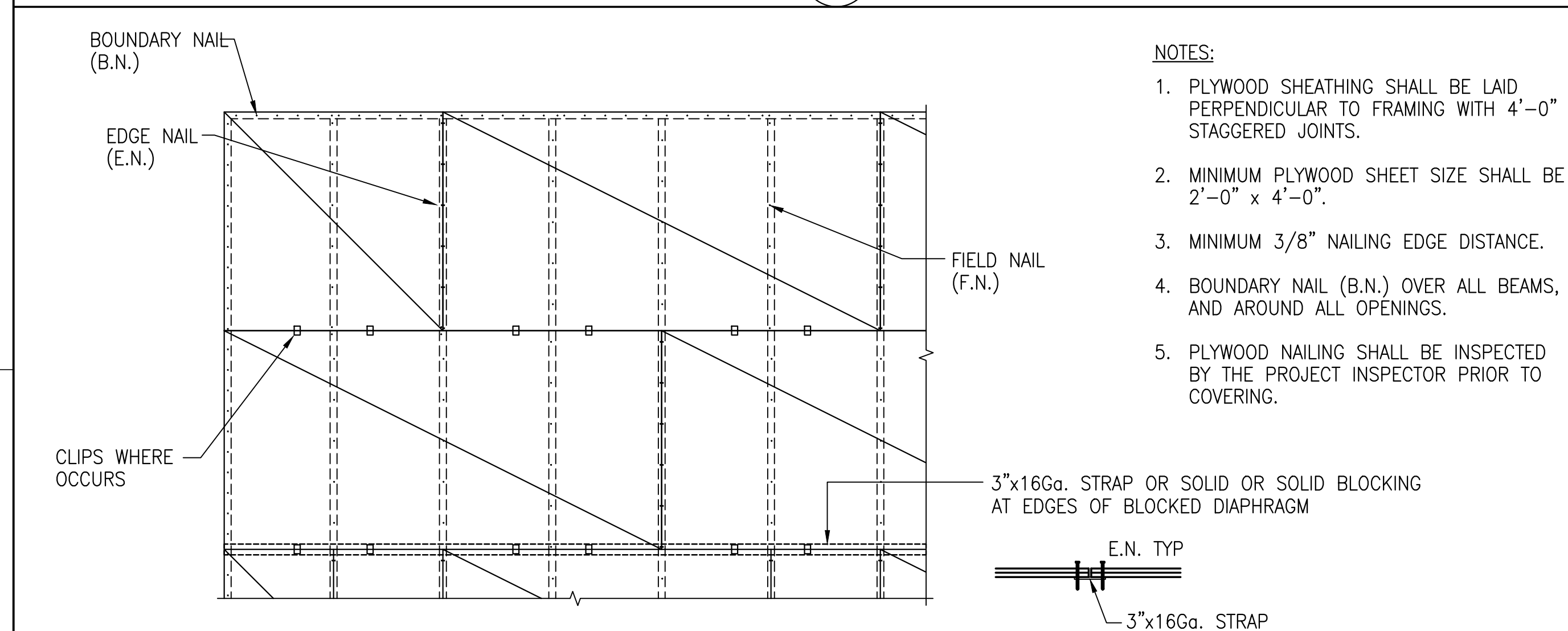
DRAWING

S1.7

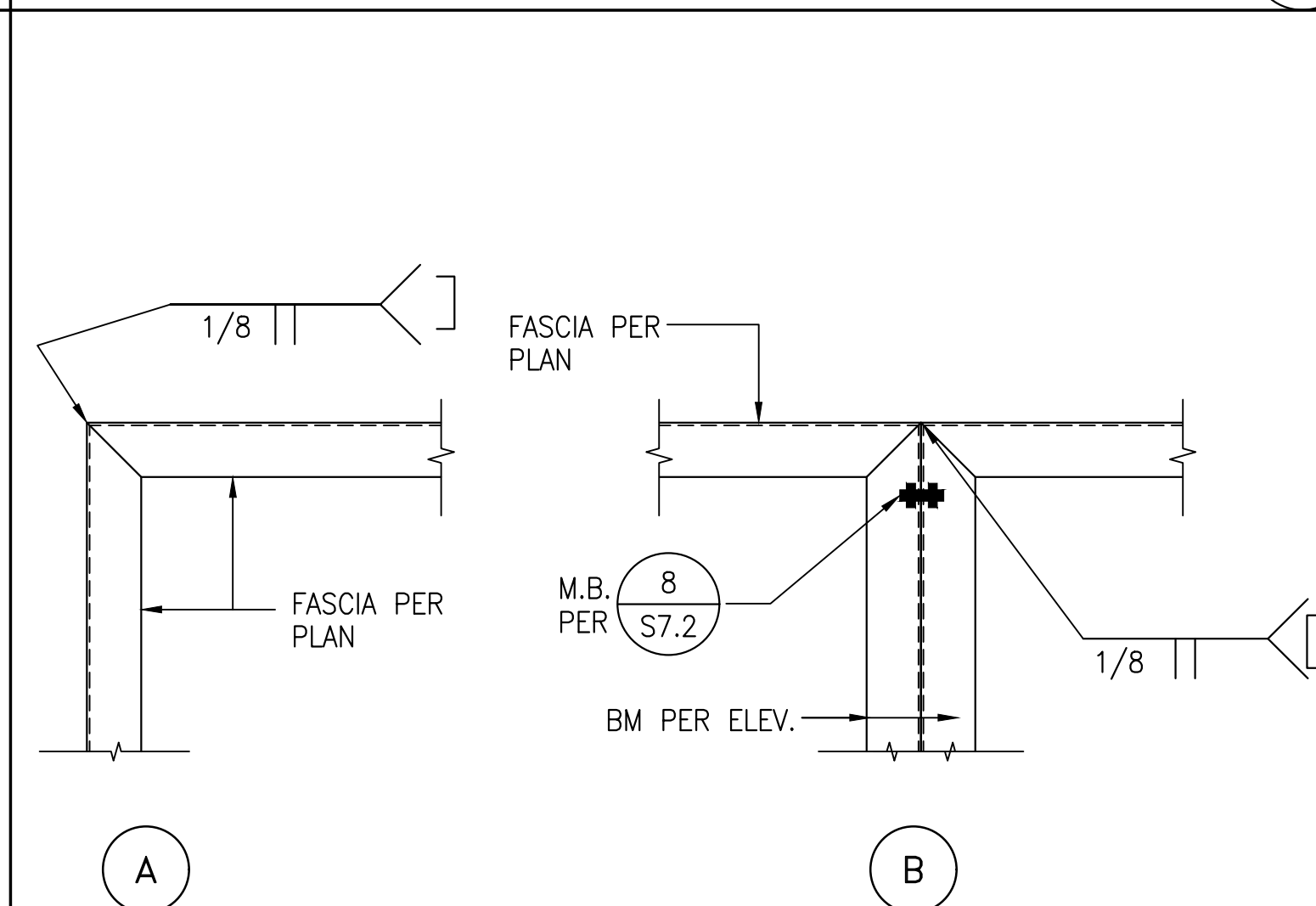


TEMPORARY ACCESS HOLES

8

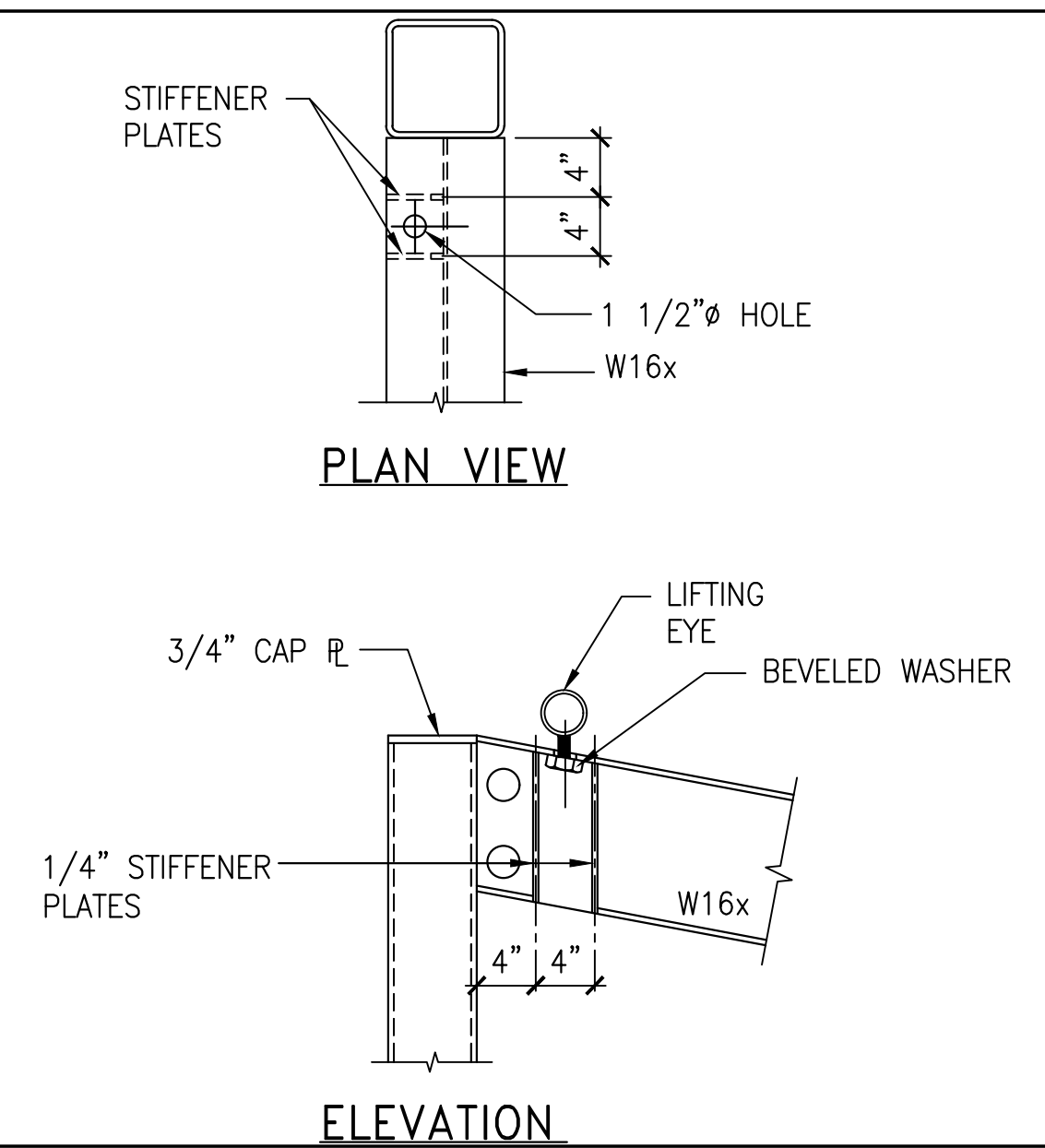


(10)



FASCIA BUTT JOINT

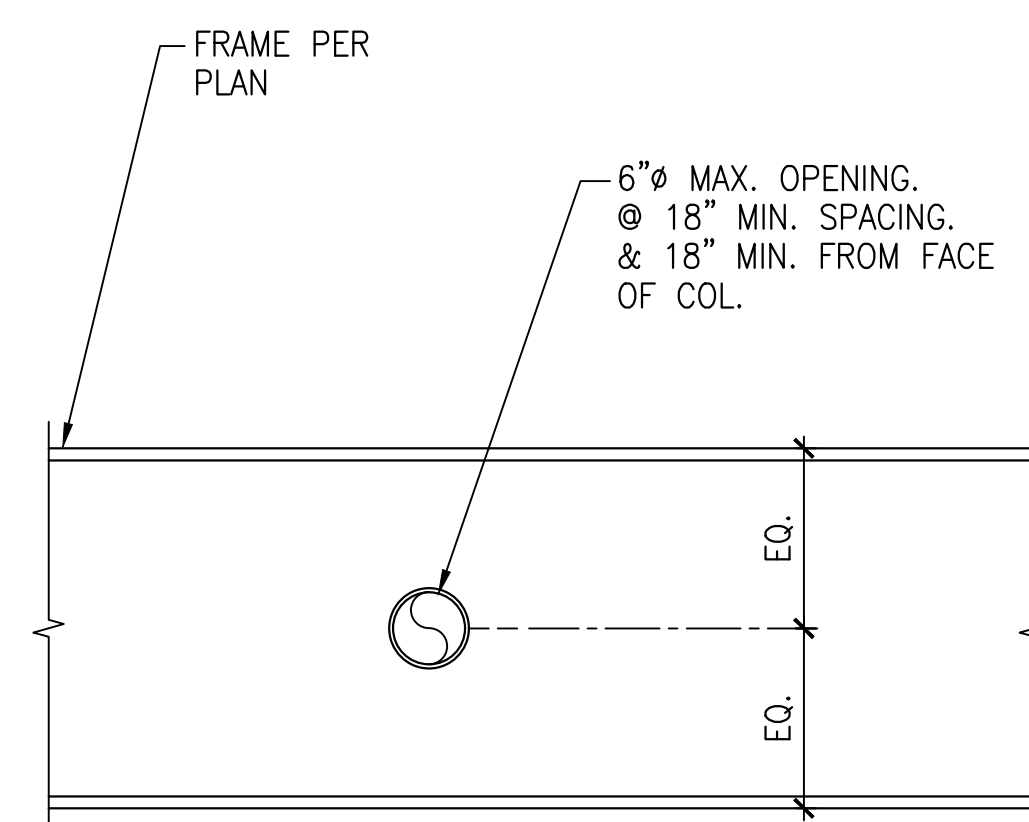
(4



OPTIONAL LIFTING ASSEMBLY

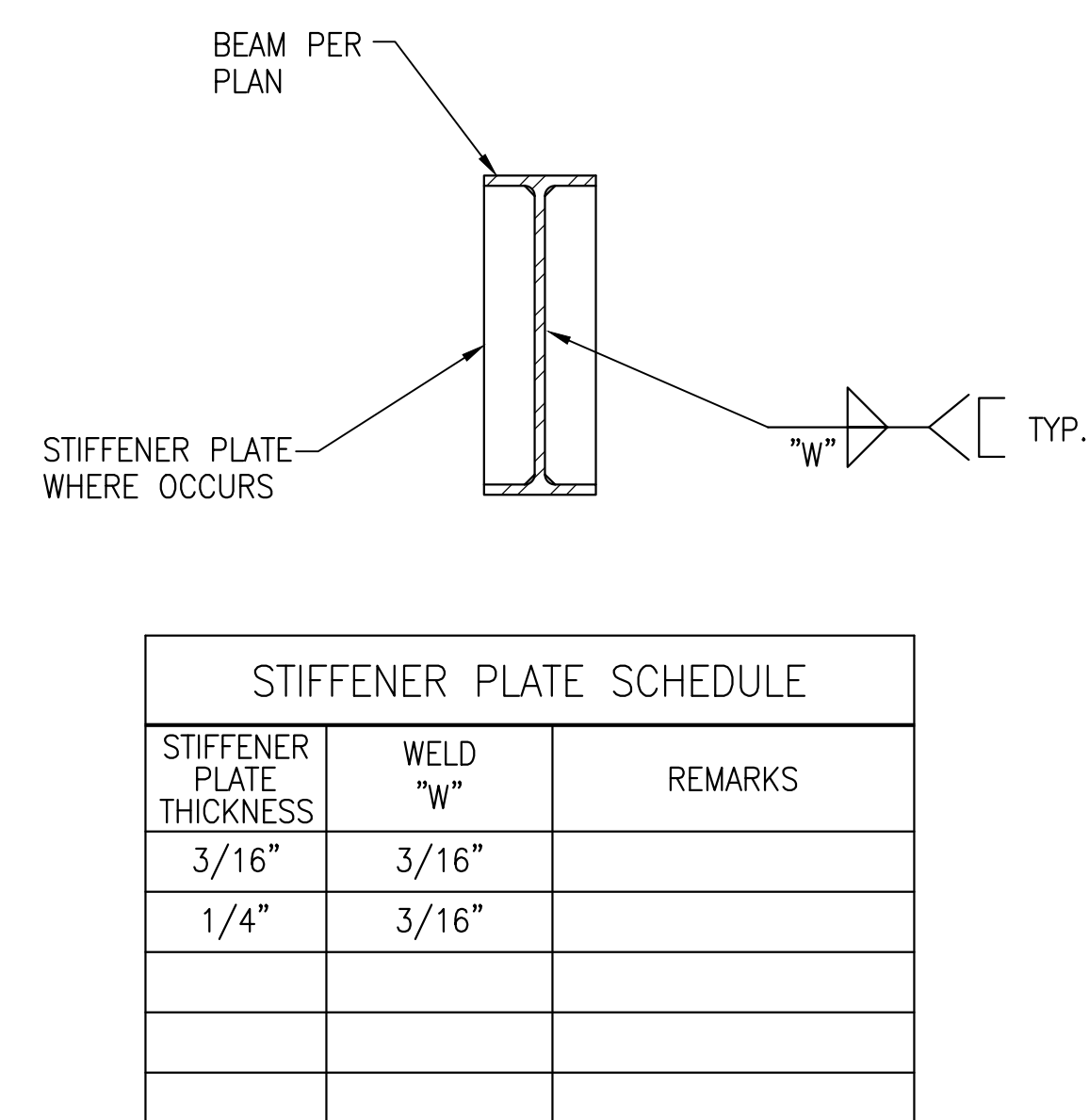
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DIAPHRAGM LAYOUT



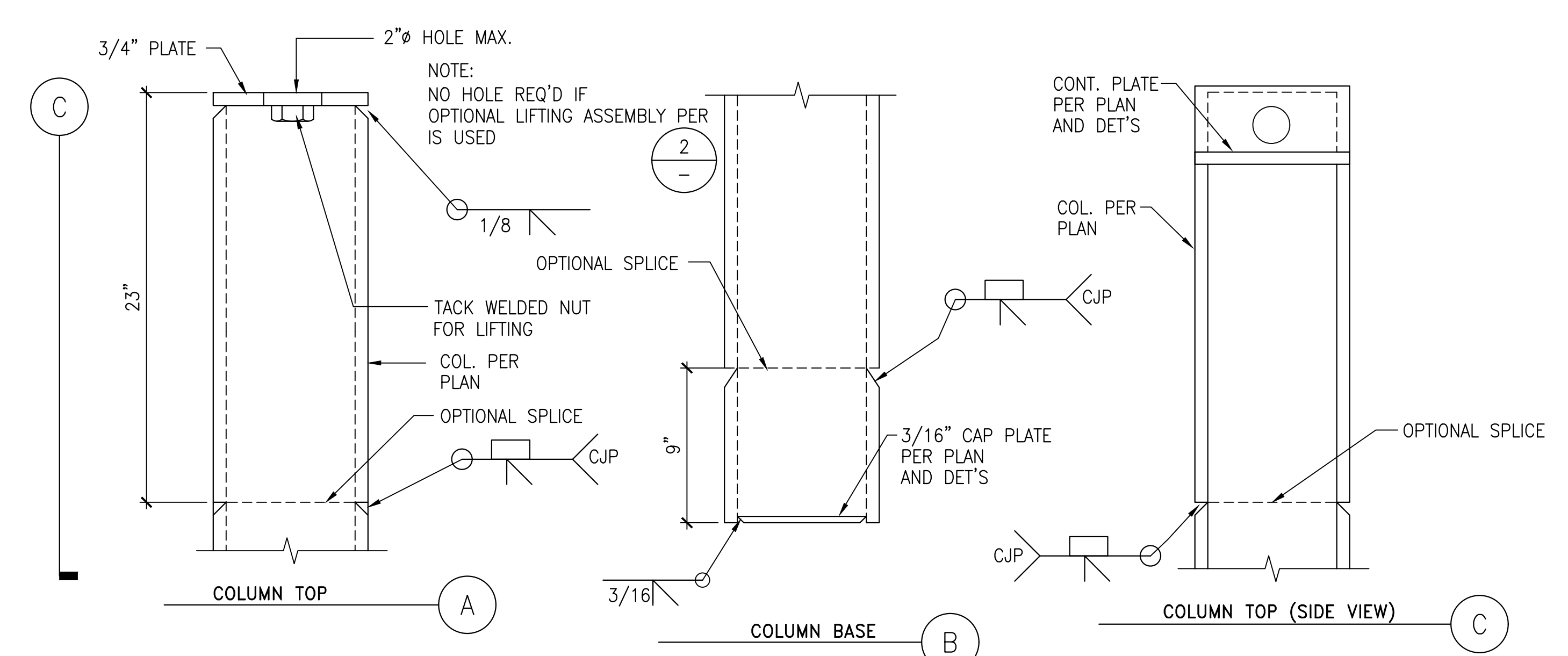
HOLE THROUGH BEAM

9



TYP. STIFFENER PLATE

(5)



TYP. COLUMN PREP.

(3)

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MODEL
NG

TAFT PRIMARY
HELEM SCHOOL
212 LUCARD ST,
TAFT CA 93268

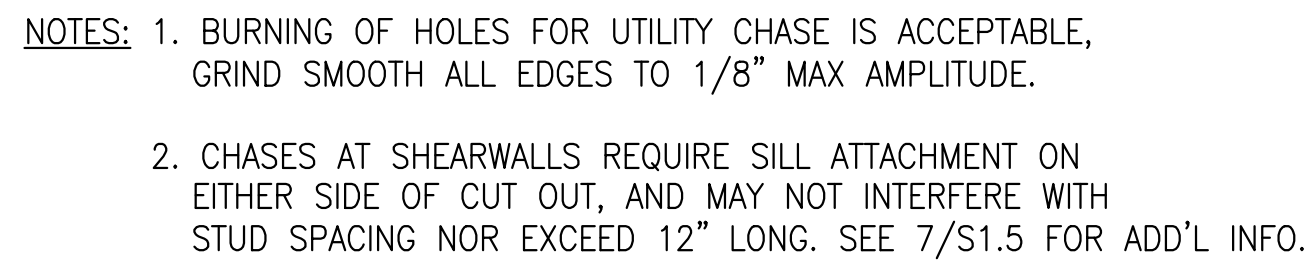
RELOCATABLE
SLAB ON GRADE BUILDING
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
TYPICAL DETAILS

SA APP NO. _____

PROJECT NO.
06-0142

DRAWING

S1.8



7



8



(1



9



6



3



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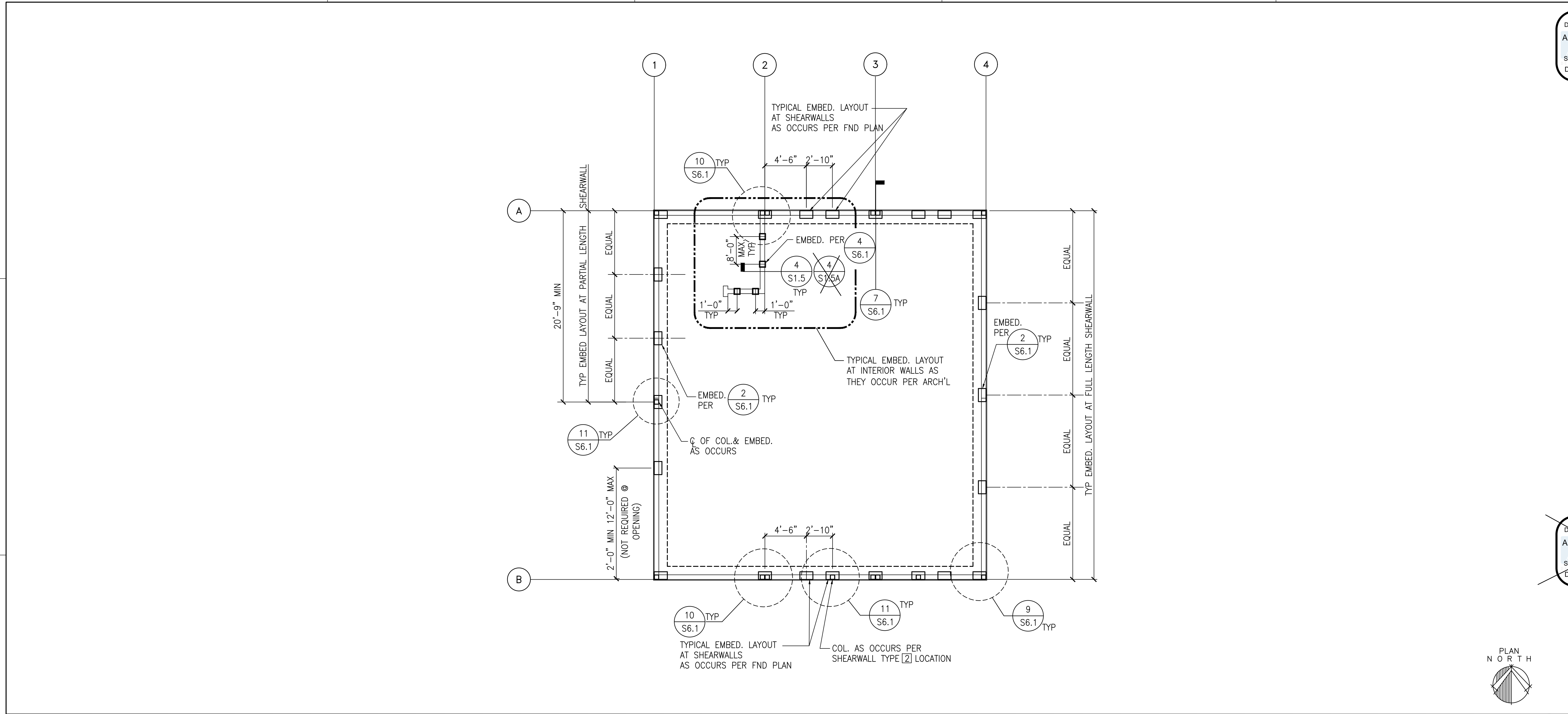
DRAWING TITLE	<p>RELOCATABLE</p> <p>SLAB ON GRADE BUILDING MODEL</p> <p>40'-0" WIDE MODULAR BUILDING</p>
TYPICAL DETAILS	<p>TAFT PRIMARY</p> <p>ELEM SCHOOL</p> <p>212 LUCARD ST.</p>

SA APP NO.

PROJECT NO.
06-0142

DRAWING

S1.9



EMBEDMENT PLAN – 3 MODULES

SCALE 3/16" = 1'-0"



LEGEND:

- INDICATES EMBED PER $\frac{2}{S6.1}$
- INDICATES EMBED PER $\frac{4}{S6.1}$

NOTES:

- FOR TYPICAL DETAILS AND GENERAL NOTES, SEE SHEETS S1.1, S1.2, S1.3, S1.4, S1.5, S1.5A, S1.6, S1.6A, S1.7, S1.8 AND S1.9
- FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL AND FOUNDATION PLAN.
- FOR SHEARWALL LOCATION SEE FOUNDATION PLAN.
- FOR RESTROOM EMBEDMENT OPTION REFER TO S2.11

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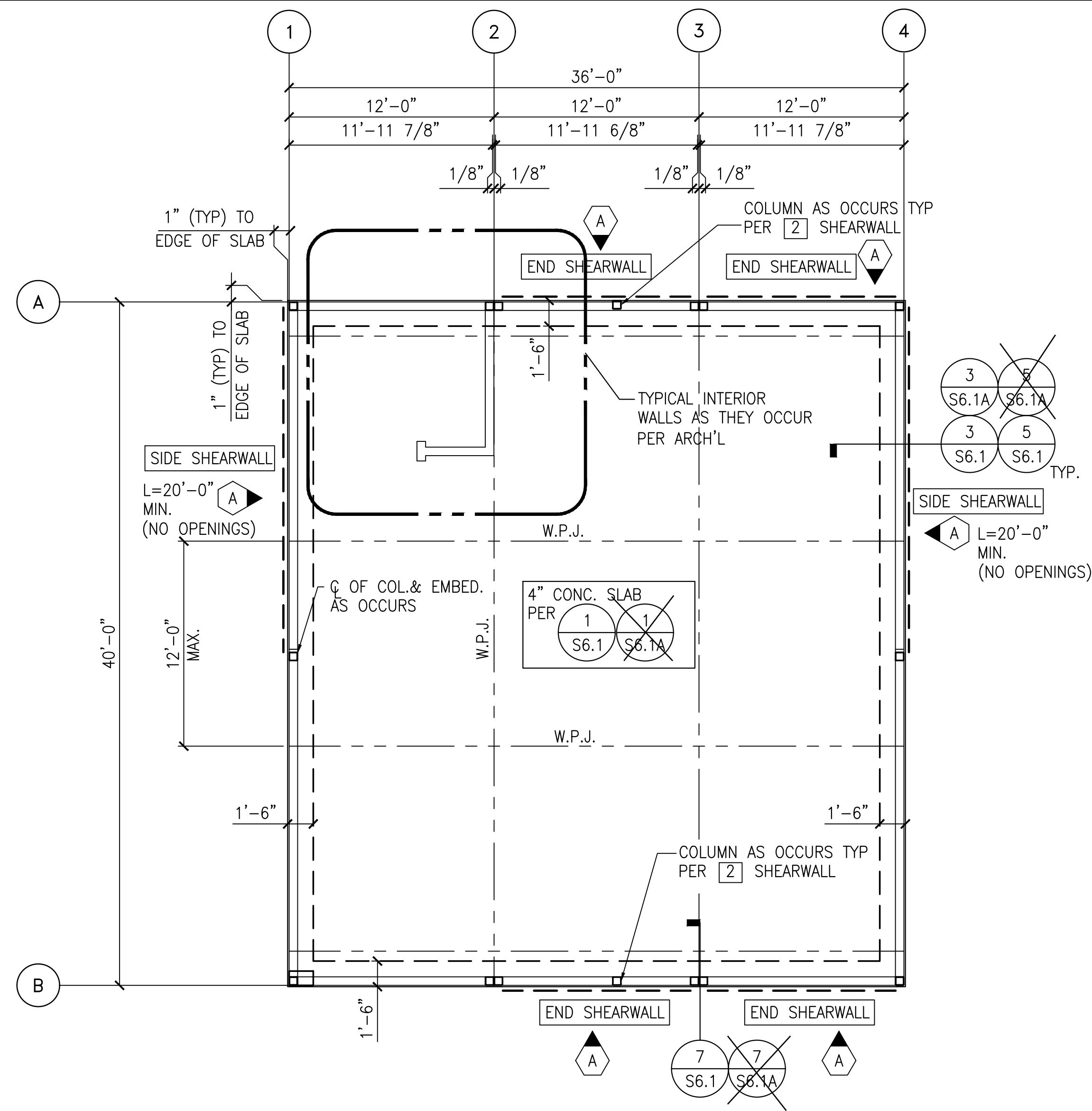
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RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
EMBEDMENT PLAN
3 MODULES
TAFI PRIMARY
ELEM SCHOOL
212 LUCARD ST.
TAFI, CA 93268

DSA APP NO.

PROJECT NO.
06-0142

DRAWING
S2.3



FOUNDATION PLAN – 3 MODULES

SCALE 3/16" = 1'-0"

1

END SHEARWALL

1. MINIMUM 2 SHEARWALLS OF TYPES 1, 2 OR 3 IS REQUIRED SEE SHEET S1.6 OR S1.6A
2. EACH SHEAR WALL ALONG GRID LINE A & B CAN BE REPOSITIONED ONE MODULE OVER FROM THE ILLUSTRATED LOCATION.

SIDE SHEARWALL

1. MINIMUM OF 20'-0' PLYWOOD SHEATHING, STEEL 6 x 6 x 3/16 COLUMN IS REQUIRED AT END OF SHEARWALL CONNECTED TO EMBED., SEE EMBED. PLAN FOR TYPES AND LOCATIONS. SHEARWALL CAN BE POSITIONED AT ANY LOCATION ALONG THE LINE PROVIDED MINIMUM LENGTH IS ARCH'ED, AND STEEL COLUMNS ARE LOCATED AT END OF SHEARWALL & EMBED. IS CENTERED BELOW EACH COLUMN.

LEGEND:

- INDIATES SHEAR WALL FASTENING SCHEDULE AND LENGTH L=20'-0"
- INDICATES EXTERIOR WALL

NOTES:

1. FOR TYPICAL DETAILS AND GENERAL NOTES, SEE SHEETS S1.1, S1.2, S1.3, S1.4, S1.5, S1.5A, S1.6, S1.6A, S1.7, S1.8 AND S1.9
2. FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL.
3. PRIOR TO CONSTRUCTION, VERIFY ALL DIMENSION WITH THE ARCHITECTURAL DRAWINGS
4. INTERIOR NON-BEARING WALLS CAN BE PLACED ANYWHERE WITHIN THE STRUCTURAL SHELL.
5. EXTERIOR NON-STRUCTURAL FRAMING NOT SHOWN, SHALL BE BY ARCH'L.
6. MIRROR OF THE BUILDING IS ACCEPTABLE.
7. FOR FOUNDATION PLAN OF RESTROOM OPTION, REFER TO S3.11

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124742 INC:
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DATE: 04/10/2025



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APP: 02-120983 PC
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DATE: 10/10/2023



CODE: 2022 CBC
DSA APPLICATION NUMBER
02-120983
A separate project
application for construction
is required

RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
FOUNDATION PLAN
3 MODULES
DRAWING TITLE
TAFI PRIMARY
ELEM SCHOOL
212 LUCARD ST.
TAFI, CA 93268

DSA APP NO.

PROJECT NO.
06-0142

DRAWING

S3.3



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DSA APPLICATION NUMBER
02-120983

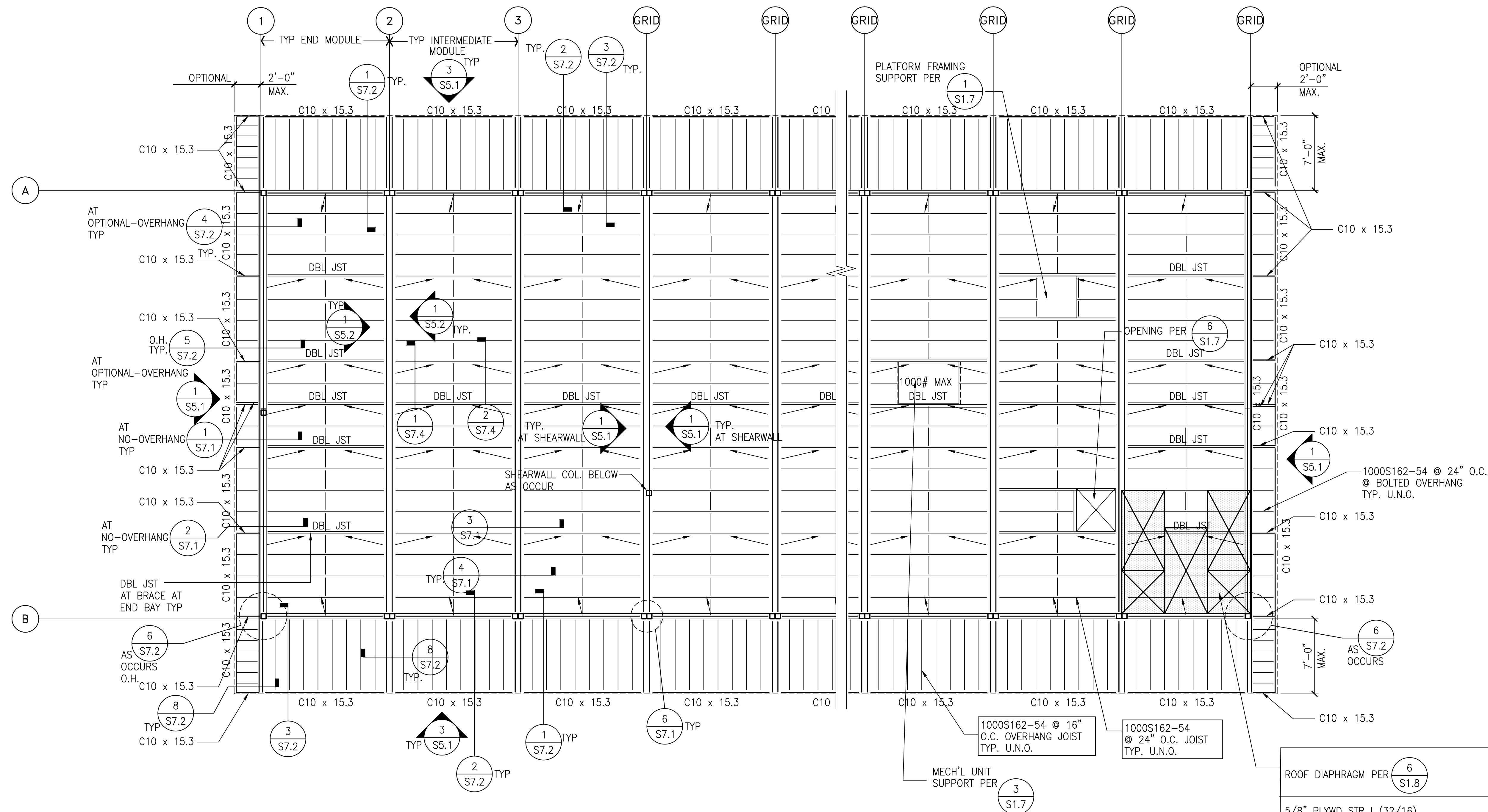
A separate project
application for construction
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RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
ROOF FRAMING PLAN
DOUBLE SLOPE OVERHANG
TAFT PRIMARY
ELEMENTARY SCHOOL
212 LUCARD ST.
TAFT, CA 93268

DSA APP NO.

PROJECT NO.
06-0142

DRAWING
S4.1



ROOF FRAMING PLAN – DOUBLE SLOPE – OVERHANG

SCALE 3/16" = 1'-0"

NOTES:

- FOR TYPICAL DETAILS AND GENERAL NOTES, SEE SHEETS S1.1, S1.2, S1.3, S1.4, S1.5, S1.5A, S1.6, S1.6A, S1.7, S1.8 AND S1.9
- FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL.
- FOR MECH'L SIZE AND LOCATION, SEE MECH'L AND ARCH'L DRAWINGS.
- FOR FRAMING MEMBERS NOT SHOWN, SEE S5.XX SHEETS.

LEGEND:

- INDICATES FRAME ELEVATION
- INDICATES BRACE
- INDICATES BLK'G/BRIDGING, SEE



2

GRID

12'-0"

GRID

TOS. ELEV. 10'-9"

W16 x 26

3 TYP S5.9

SHEARWALL PER PLAN

4 TYP S5.9

HSS 6 x 6 x 3/16

F.FLR. ELEV.

NOTE: FOR BOLTED SIDE OVERHANG INFO., REFER TO 4 S7.2 5 S7.2 6 S7.2 AND 8 S7.2

3

CJP

3/16" STIFF PLATE NOT SHOWN FOR CLARITY

BM PER ELEV.

CJP T & B

4

ALT. CONFIGURATION

7'-0" MAX
AT OPTIONAL-OVERHANG

GRID

40'-0"

7'-0" MAX.
AT OPTIONAL-OVERHANG

GRID

TOS. ELEV. 14'-1"

TOS. ELEV. 10'-9"

C10 x 15.3

W16 x 26

2 TYP S5.9

HSS 6 x 6 x 3/16

SHEARWALL PER PLAN

HSS 6 x 6 x 3/16

F.FLR. ELEV.

4 TYP S5.9

7'-0" MAX
AT OPTIONAL-OVERHANG

GRID

40'-0"

7'-0" MAX.
AT OPTIONAL-OVERHANG

GRID

TOS. ELEV. 14'-1"

TOS. ELEV. 10'-9"

C10 x 15.3

W16 x 26

4 TYP S5.9

6 TYP S5.9

HSS 6 x 6 x 3/16

SHEARWALL PER PLAN

HSS 6 x 6 x 3/16

F.FLR. ELEV.

5 TYP S5.9

4 TYP S5.9

21'-0" MIN.

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REGISTERED PROFESSIONAL
SEAL
RYAN J. ORION
No. S 4410
EXPIRATION DATE 06/30/2026
STRUCTURAL
STATE OF CALIFORNIA

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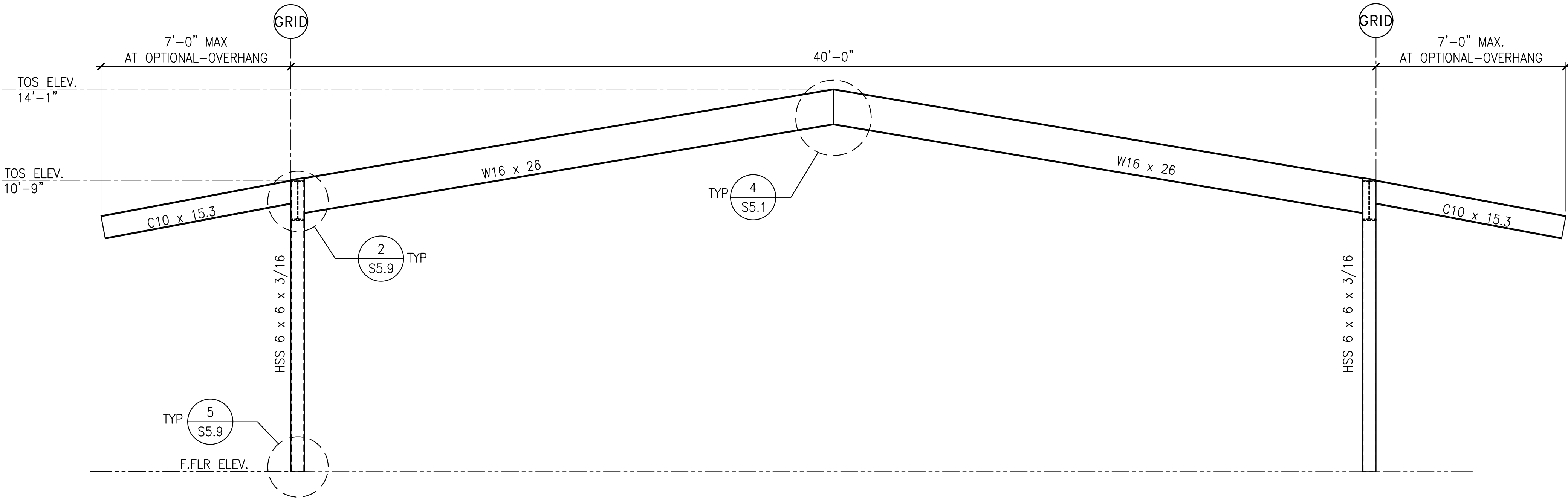
RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
FRAME ELEVATIONS DOUBLE SLOPE
OVERHANG
TAFI PRIMARY
ELEM SCHOOL
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TAFI, CA 93268

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S5.1

3

4

5



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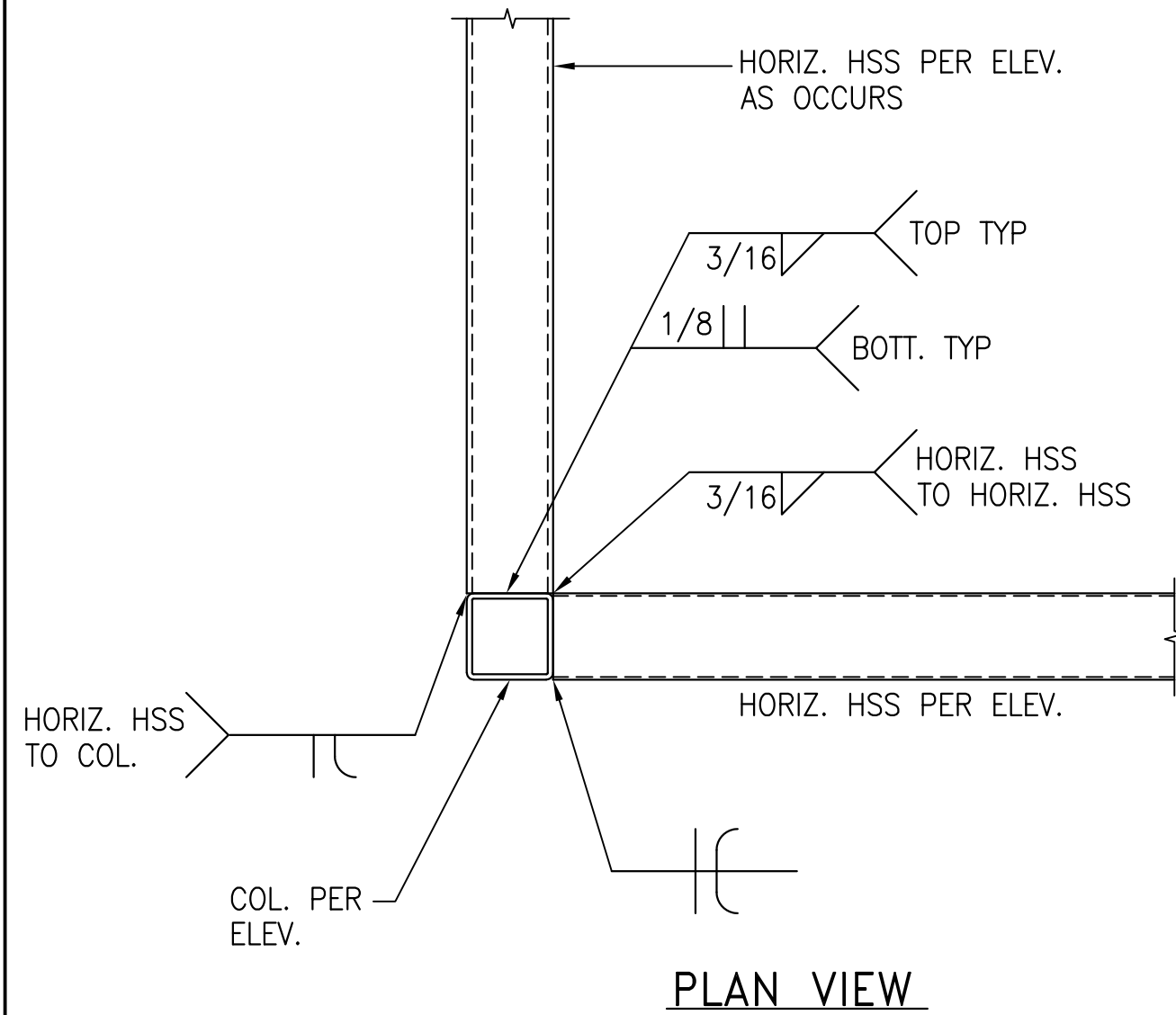
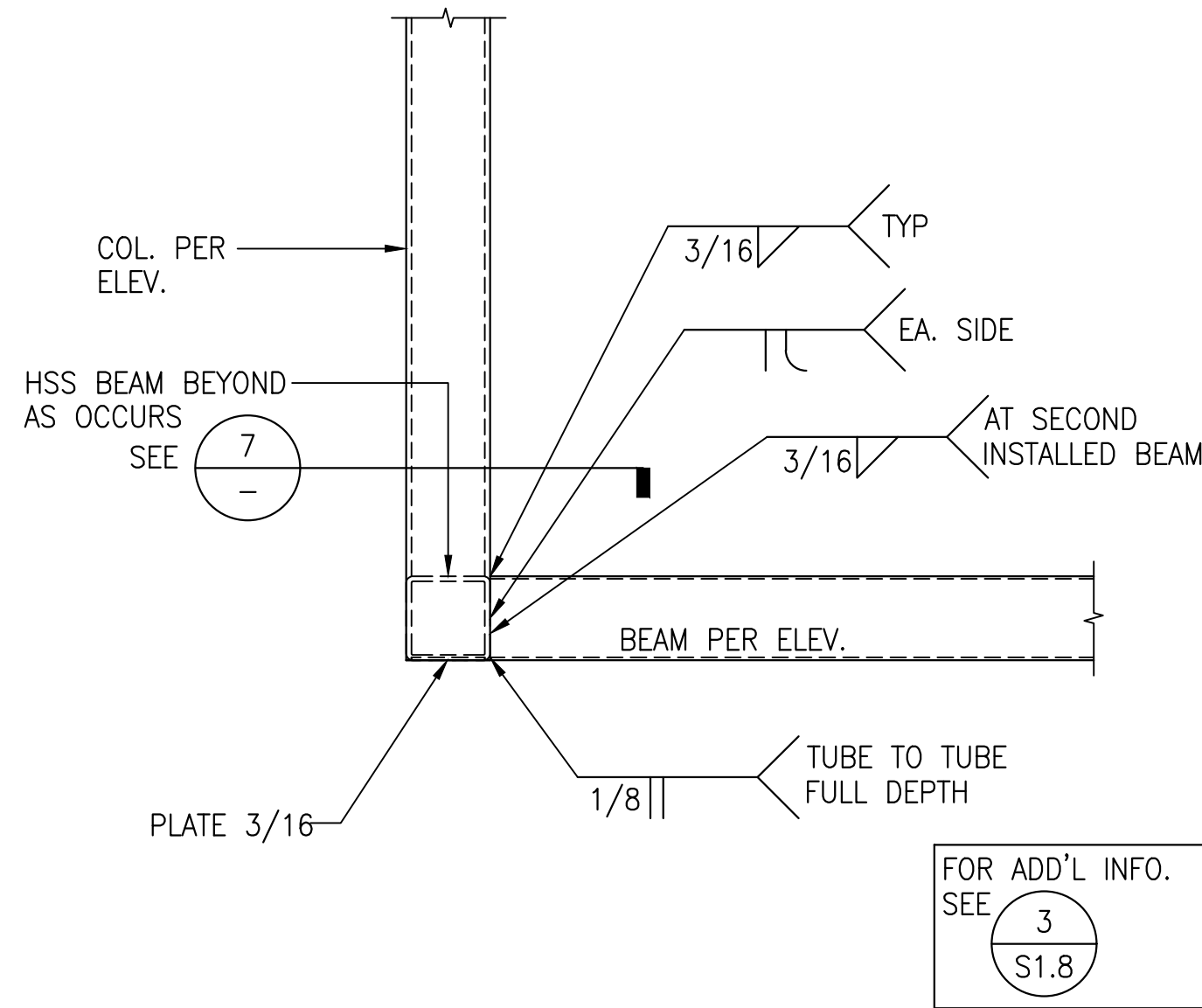
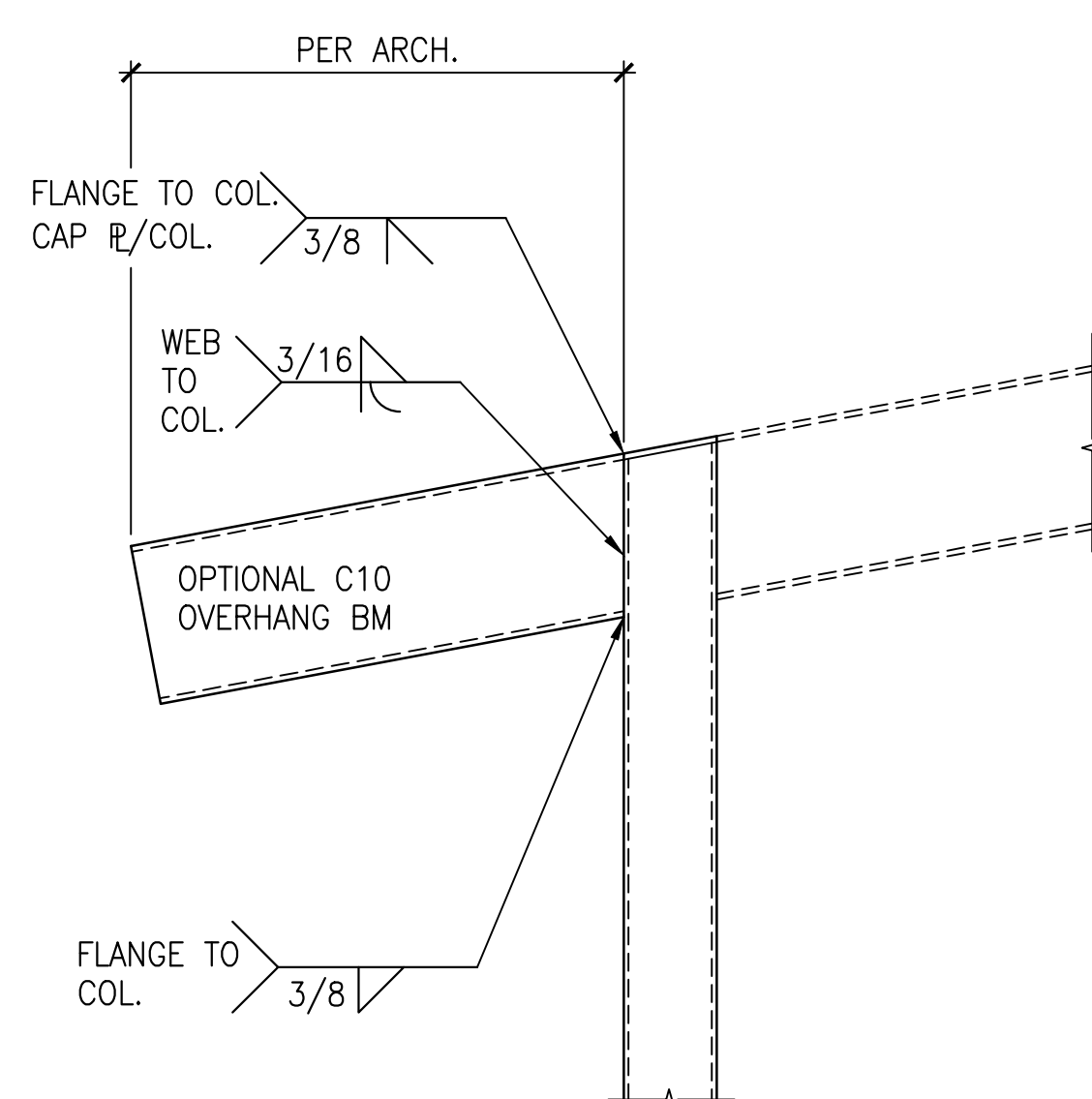
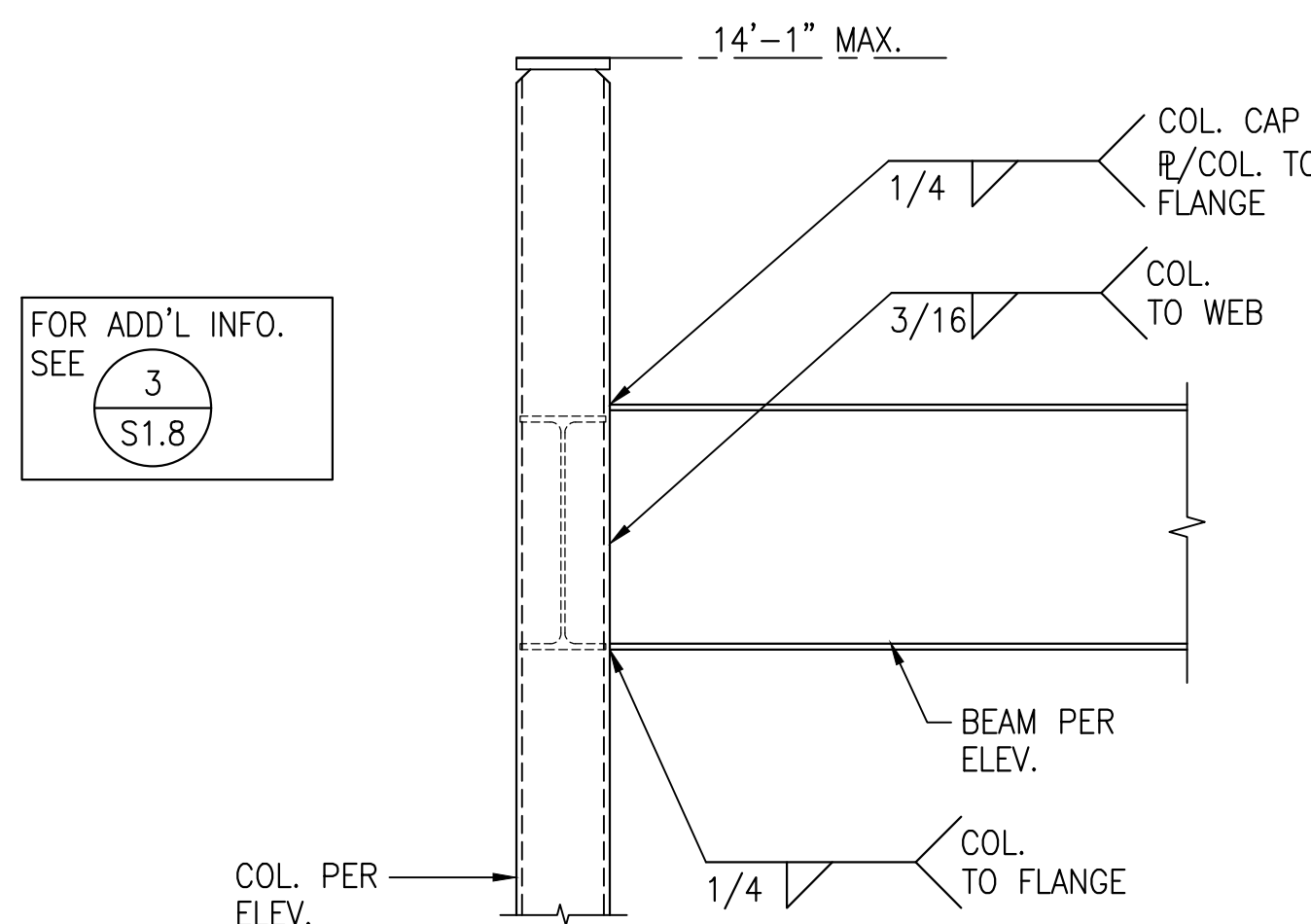
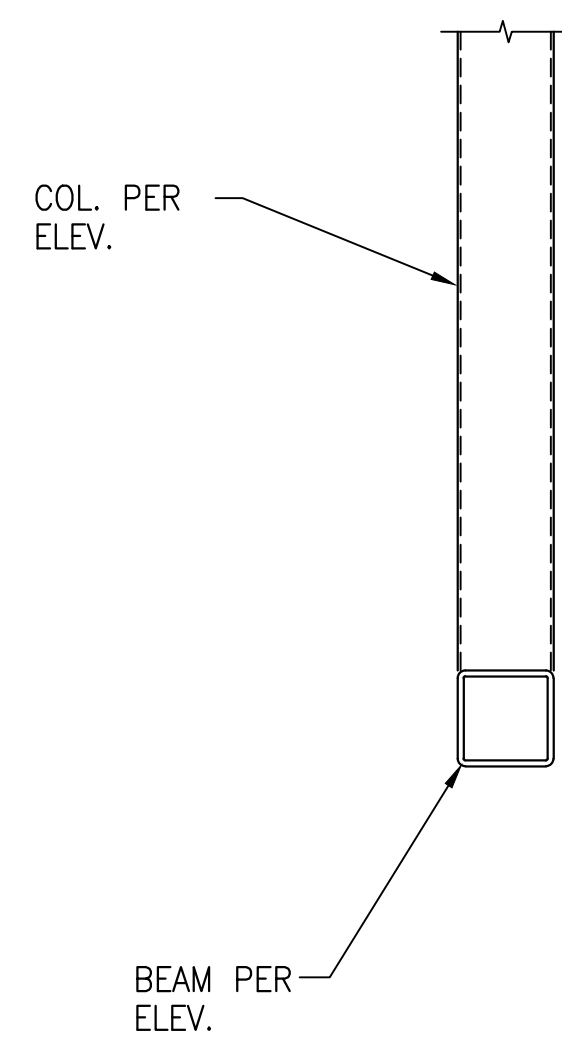
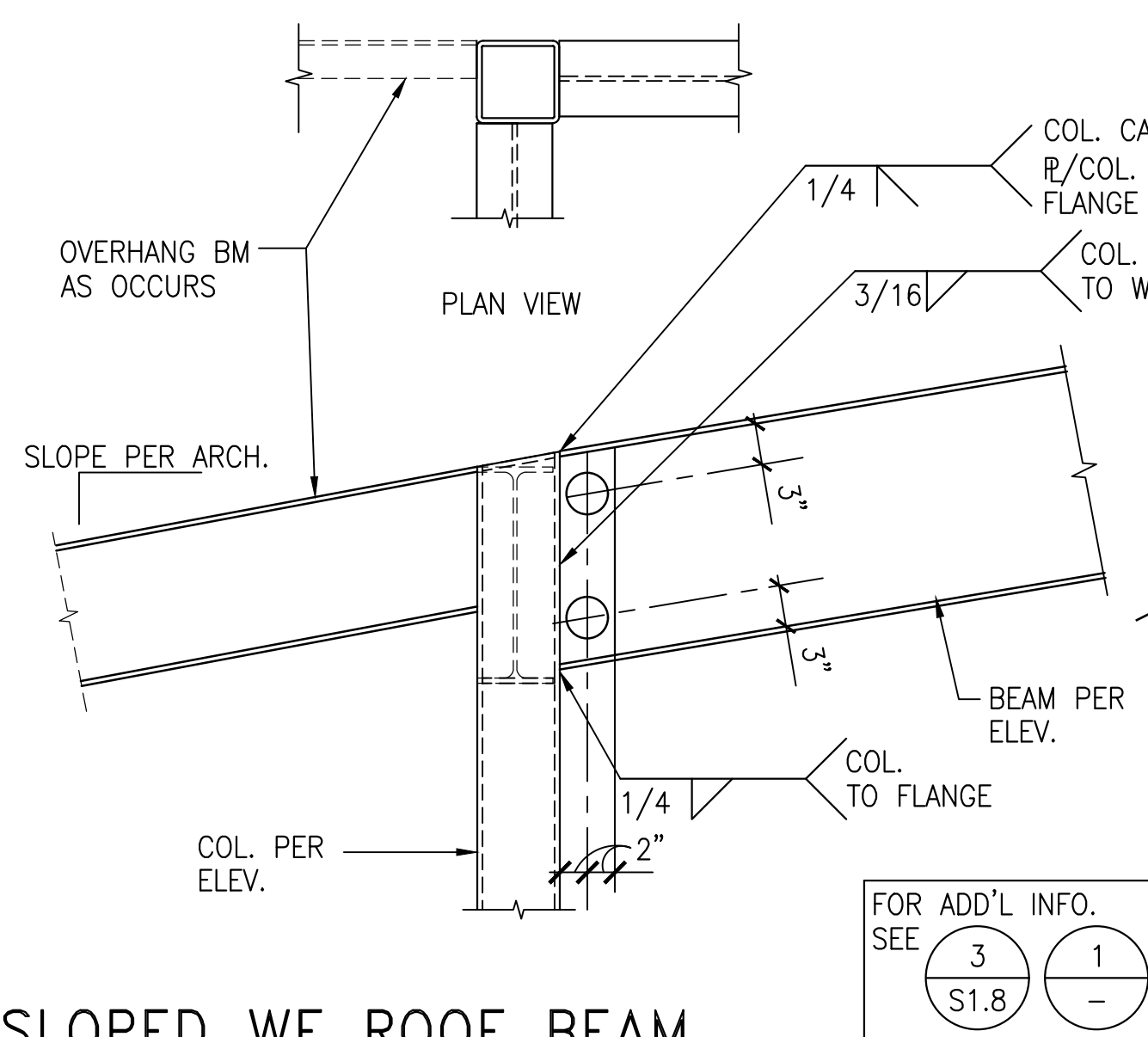
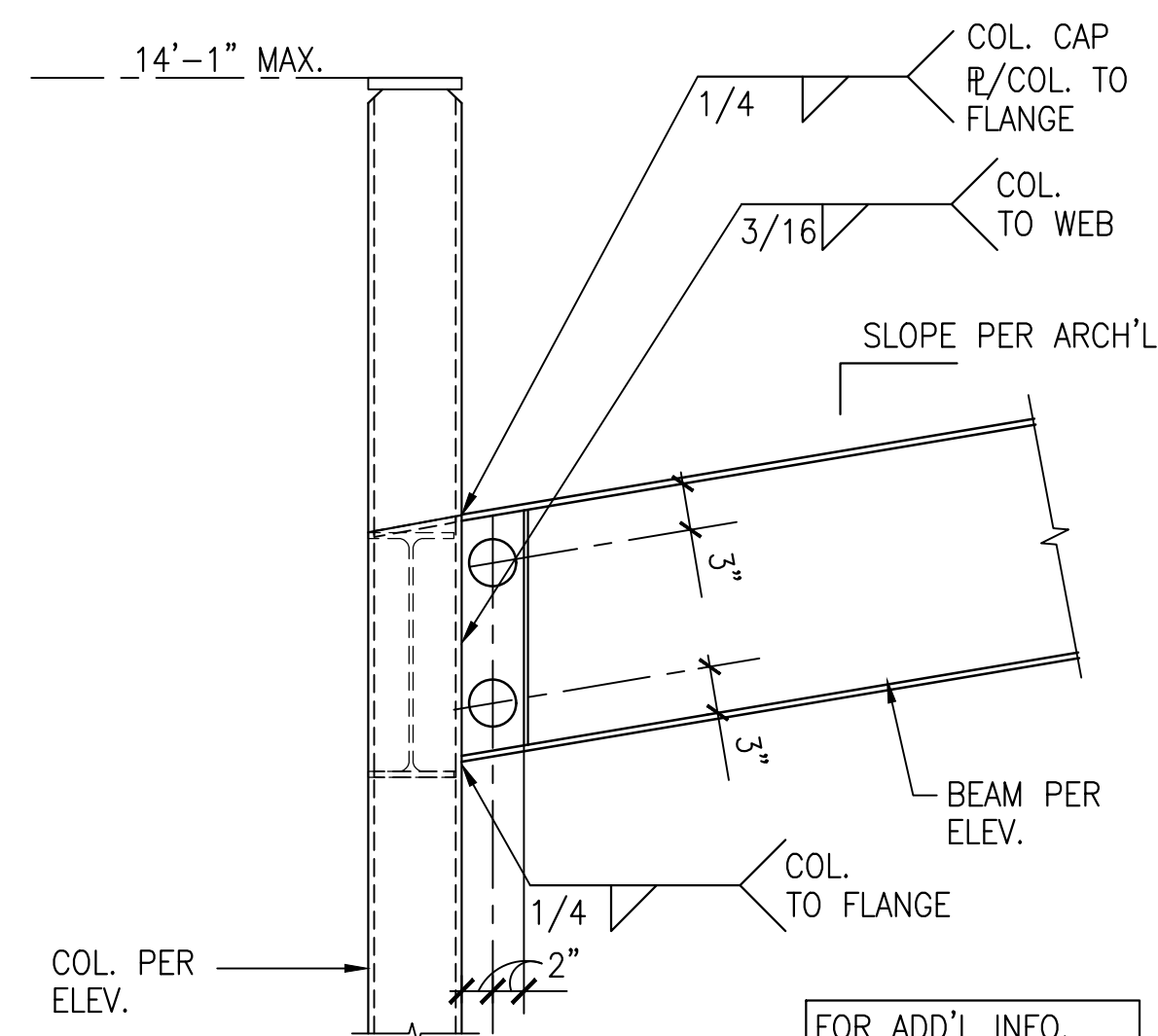
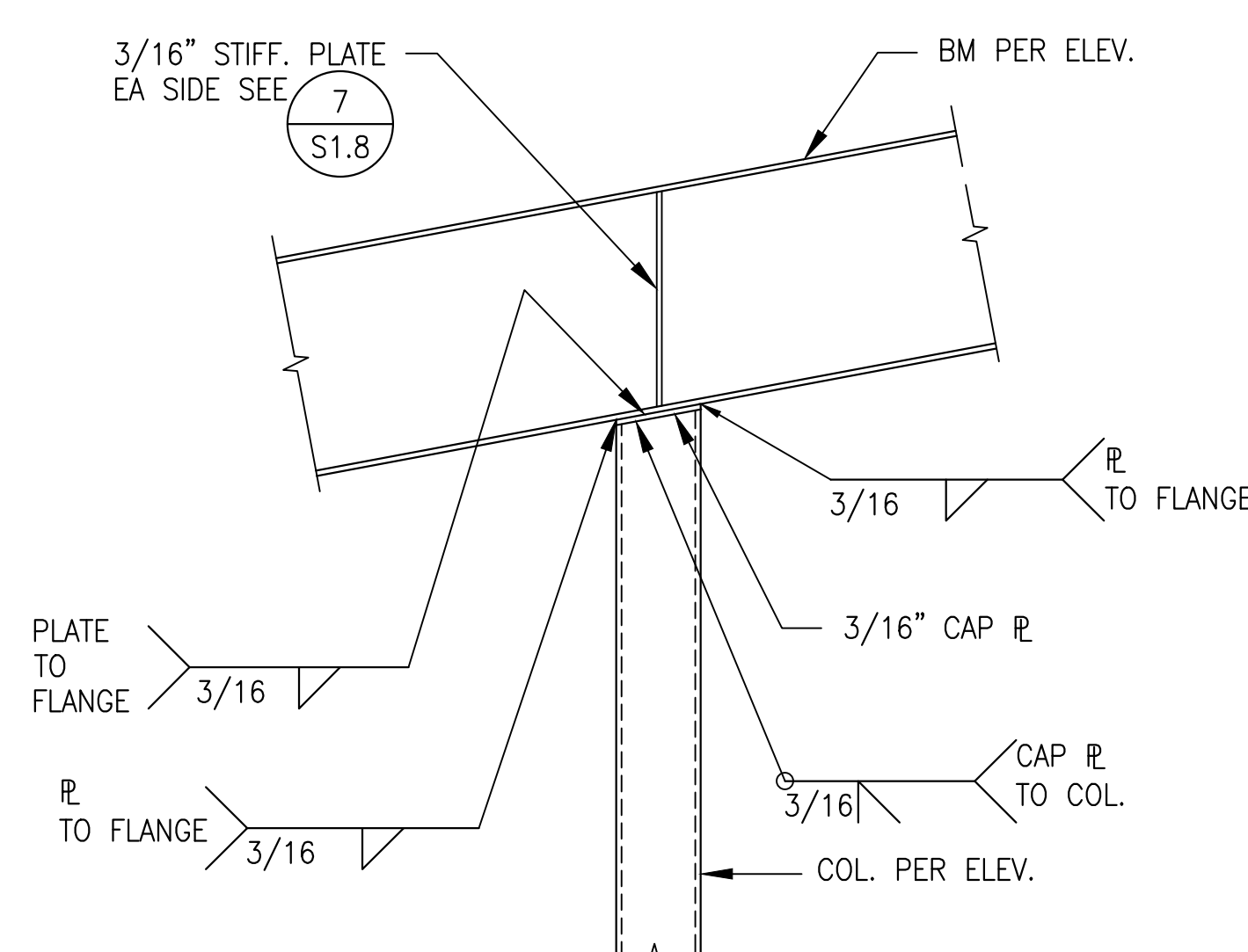
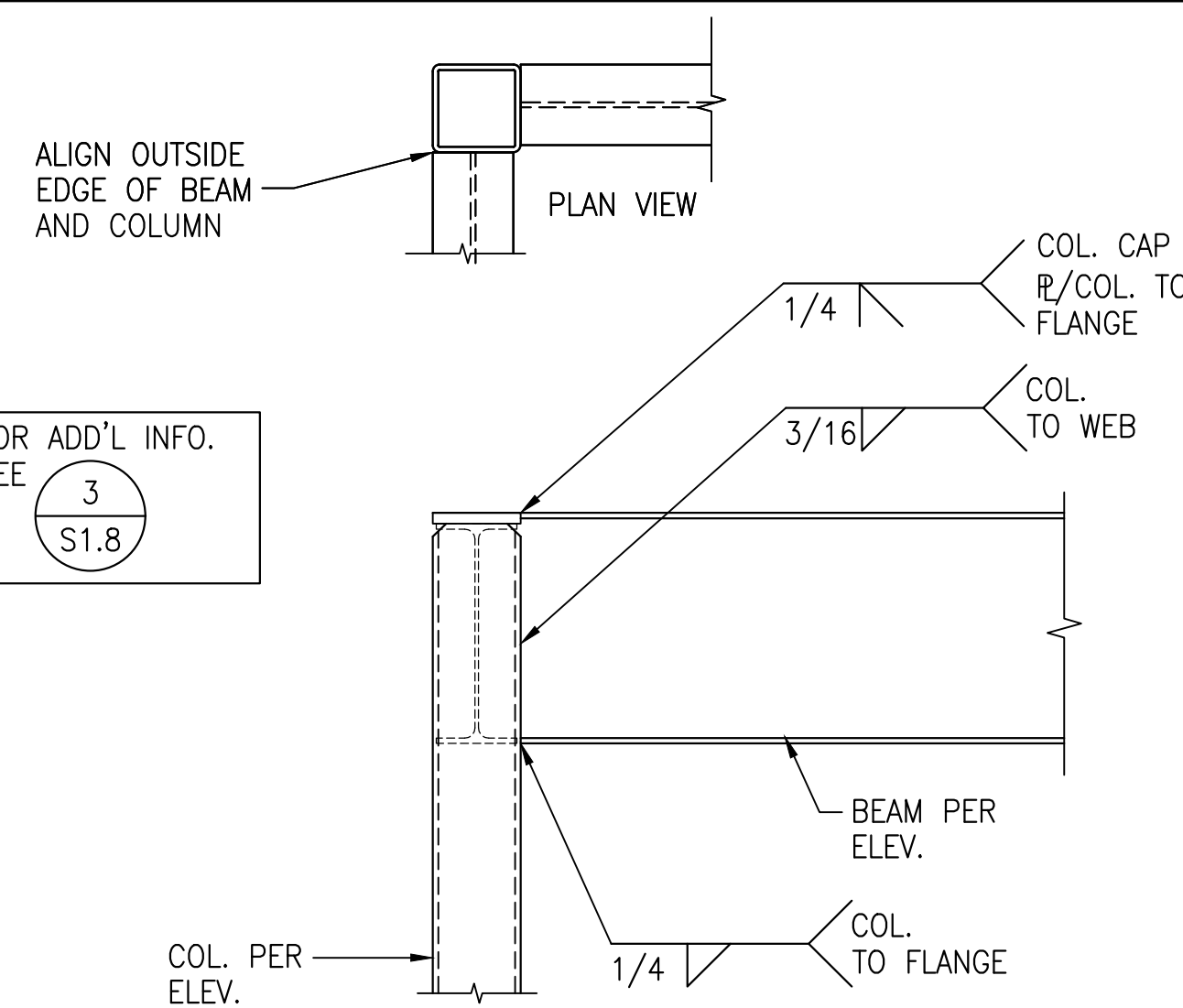
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RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
FRAME ELEVATIONS DOUBLE SLOPE
OVERHANG
TAFT PRIMARY
ELEM SCHOOL
212 LUCARD ST.
TAFT, CA 93288

DSA APP NO.

PROJECT NO.
06-0142

DRAWING
S5.2

	 <p>PLAN VIEW</p>	 <p>FOR ADD'L INFO. SEE 3 S1.8</p>	 <p>CHANNEL OVERHANG TO HSS COL. CONN.</p>			
10	DETAIL	7	HSS FLOOR TUBE TO HSS COL. CONN.	4	HSS COL. CONN.	1
	 <p>FOR ADD'L INFO. SEE 3 S1.8</p>	 <p>FOR ADD'L INFO. SEE 3 S1.8 4 -</p>	 <p>FOR ADD'L INFO. SEE 3 S1.8 1 -</p>			
11	HSS COL. TO WF BEAM CONN. AT PARAPET ROOF	8	HSS COL. COND.AT FLOOR W/OUT HSS FLOOR TUBE	5	SLOPED WF ROOF BEAM TO HSS COL. CONN.	2
	 <p>FOR ADD'L INFO. SEE 3 S1.8 1 -</p>	 <p>FOR ADD'L INFO. SEE 3 S1.8</p>	 <p>FOR ADD'L INFO. SEE 3 S1.8</p>			
12	HSS COL. TO WF BEAM CONN. AT PARAPET ROOF	9	HSS COL. TO WF BEAM CONN. AT INTERMEDIATE SPAN	6	WF ROOF BEAM TO HSS COL. CONN.	3

RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE

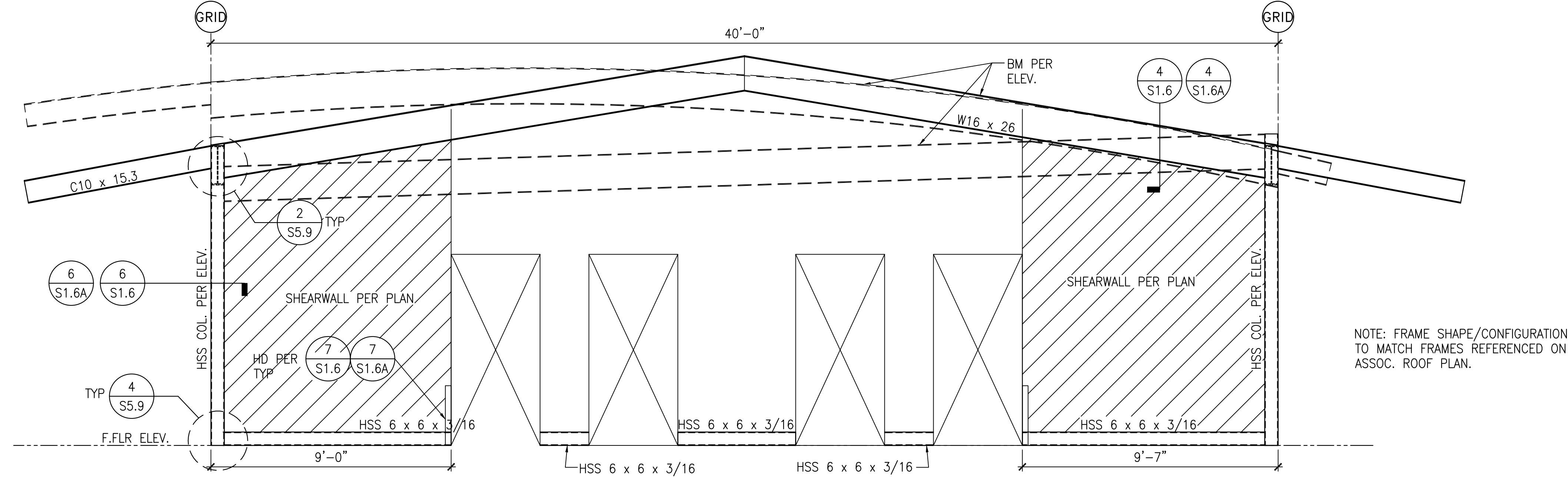
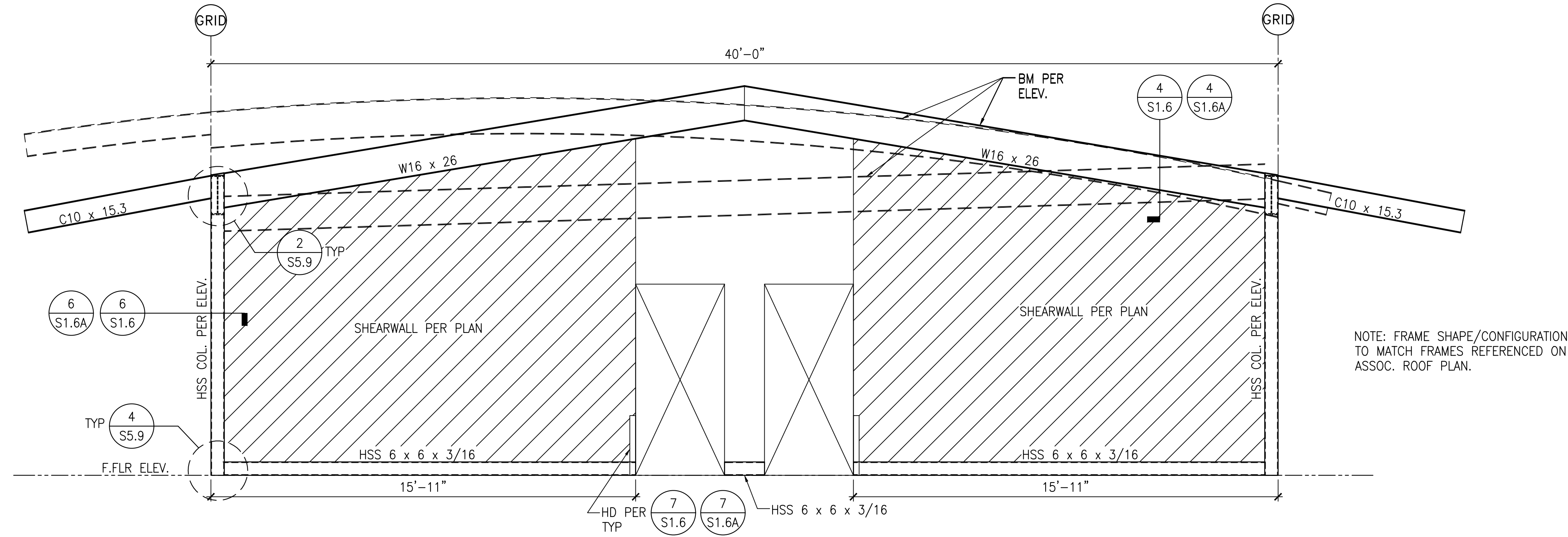
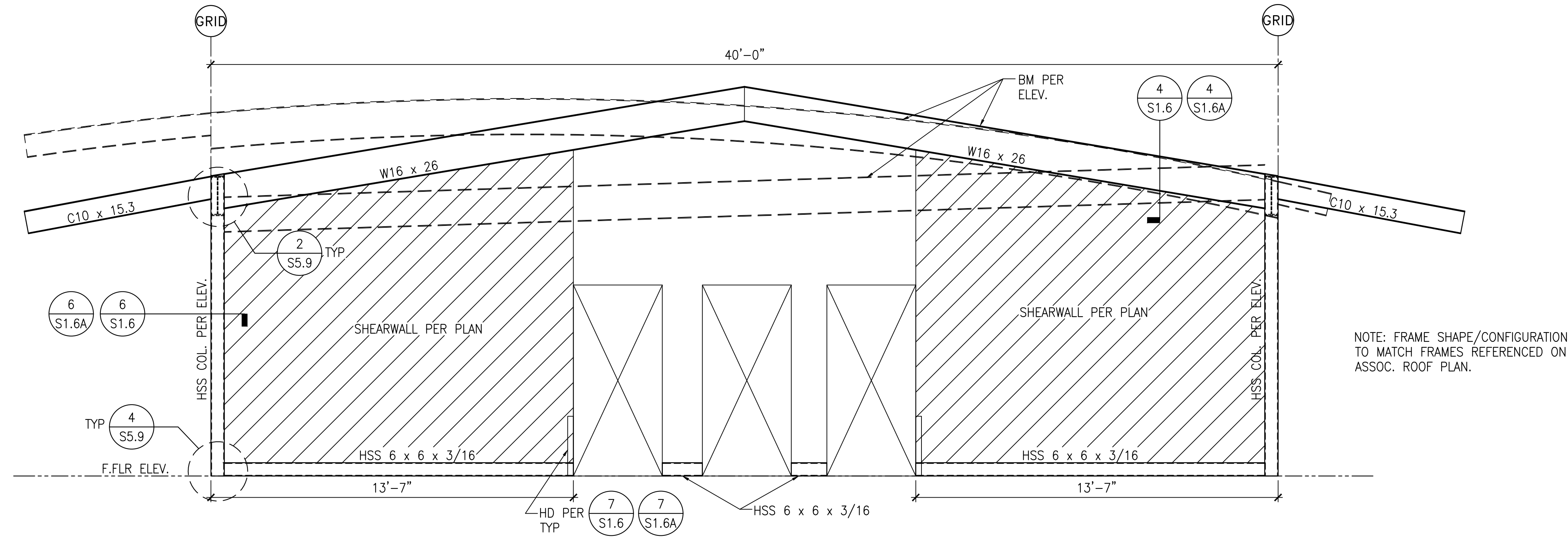
FRAME DETAILS

TAFI PRIMARY
ELEM SCHOOL
212 LUCARD ST.
TAFI, CA 93268

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S5.9



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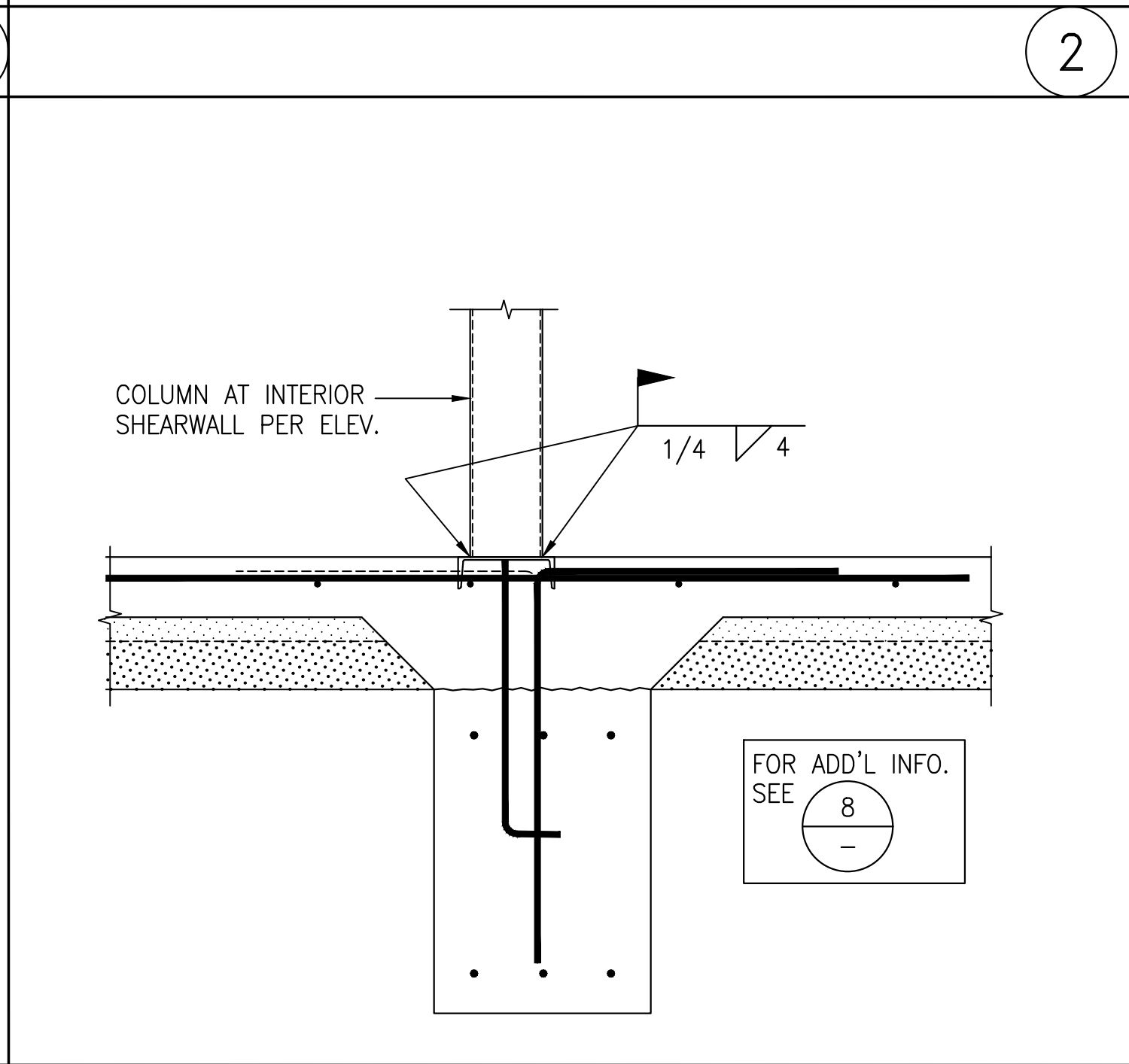
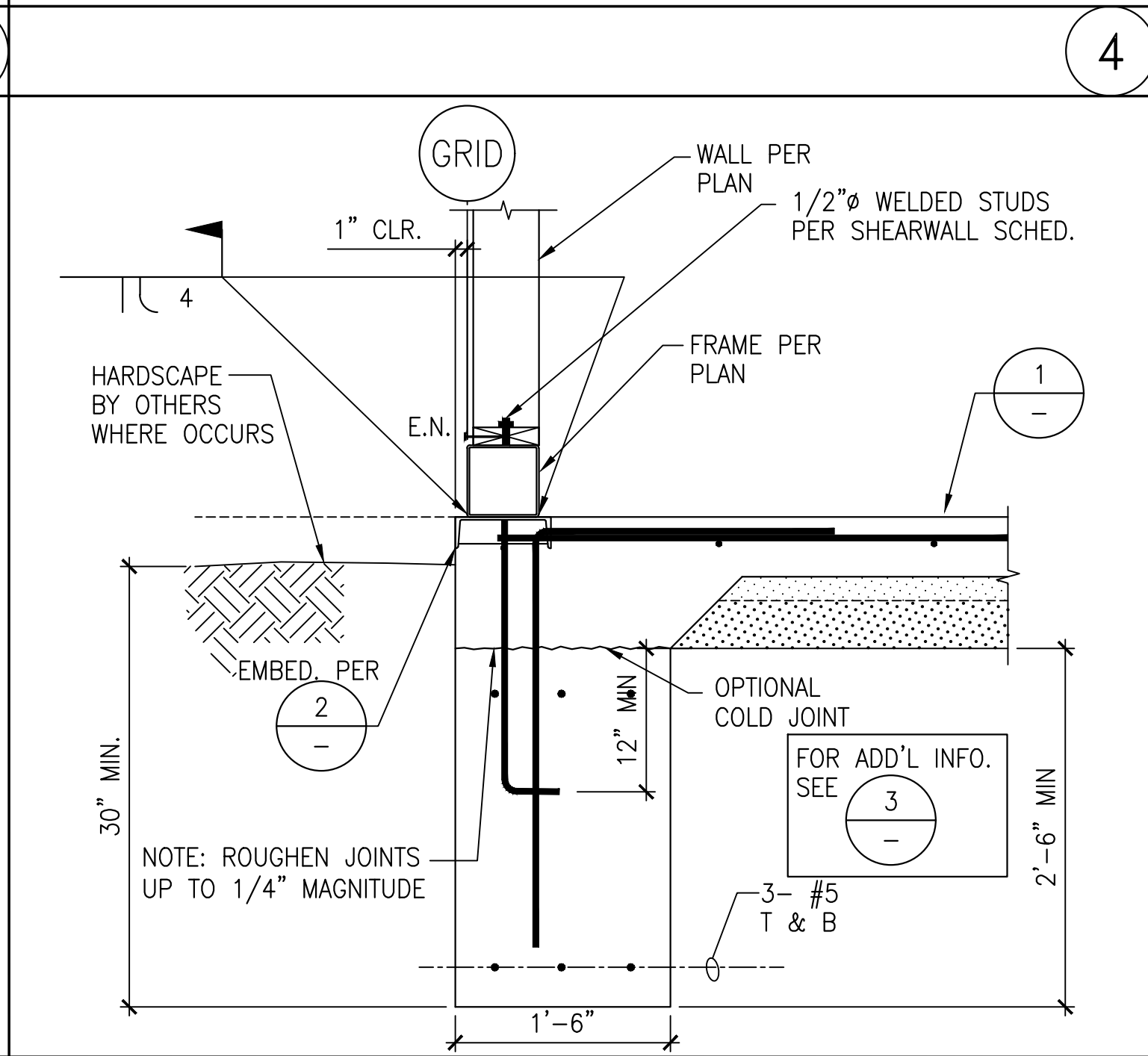
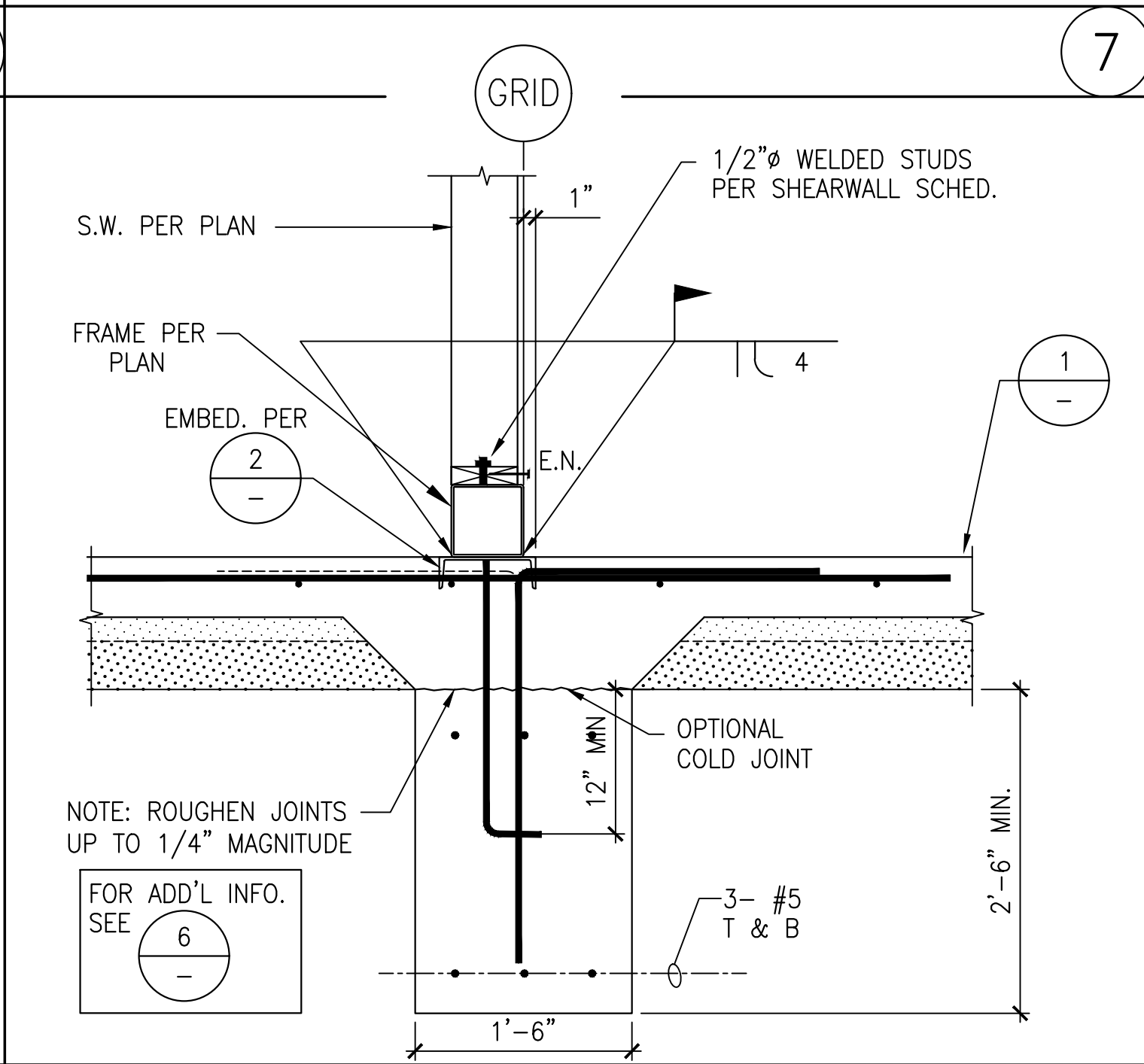
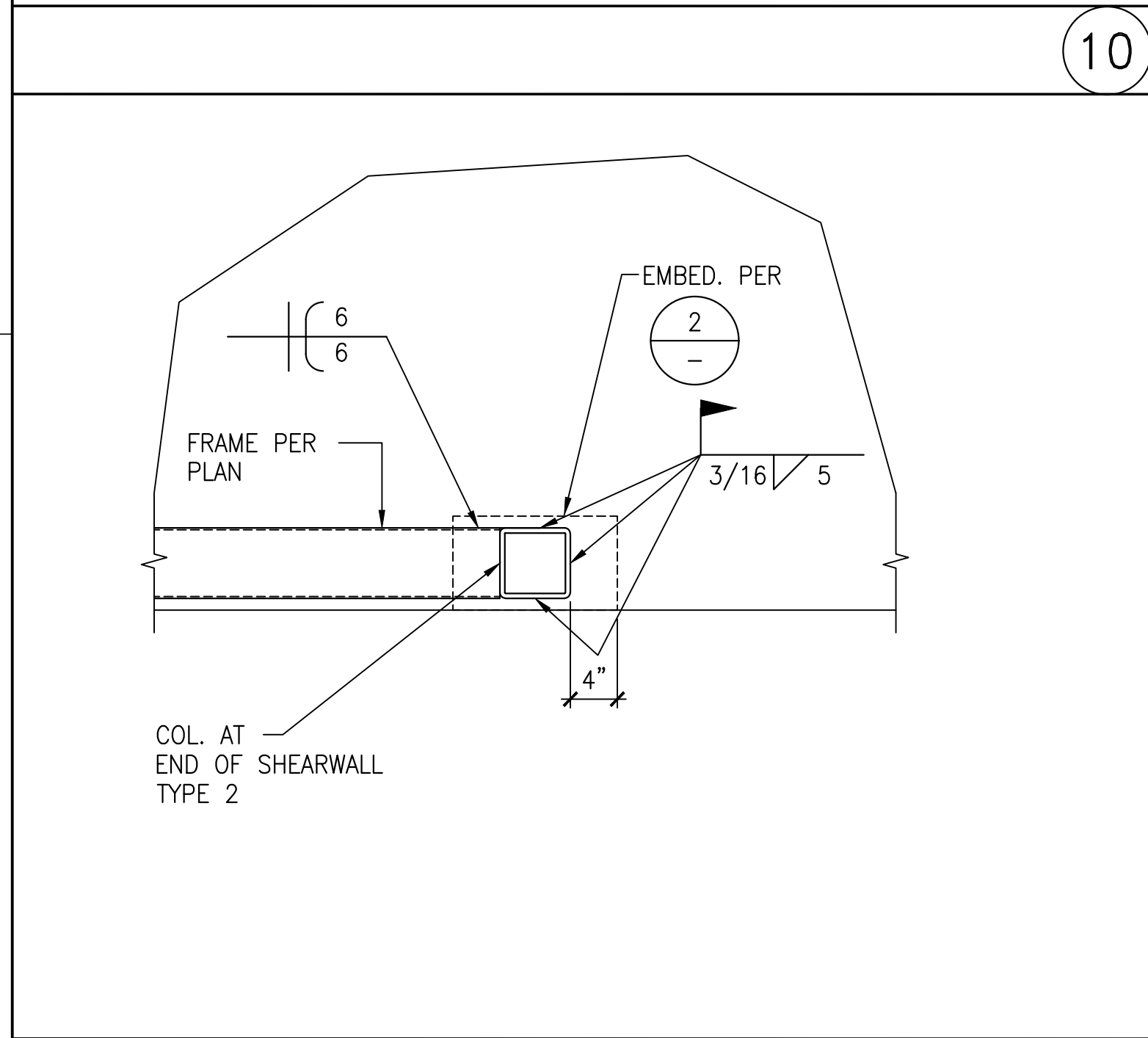
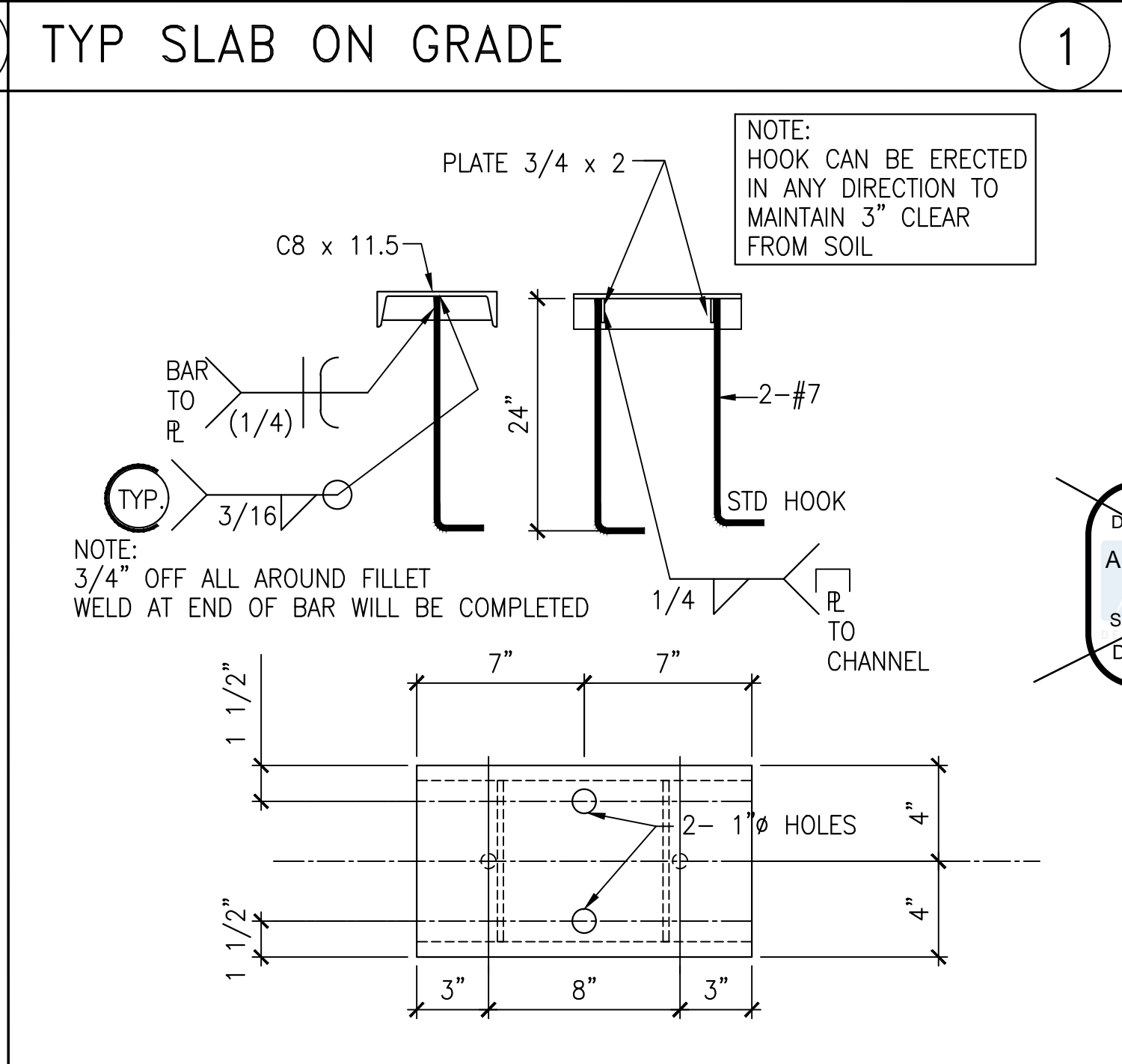
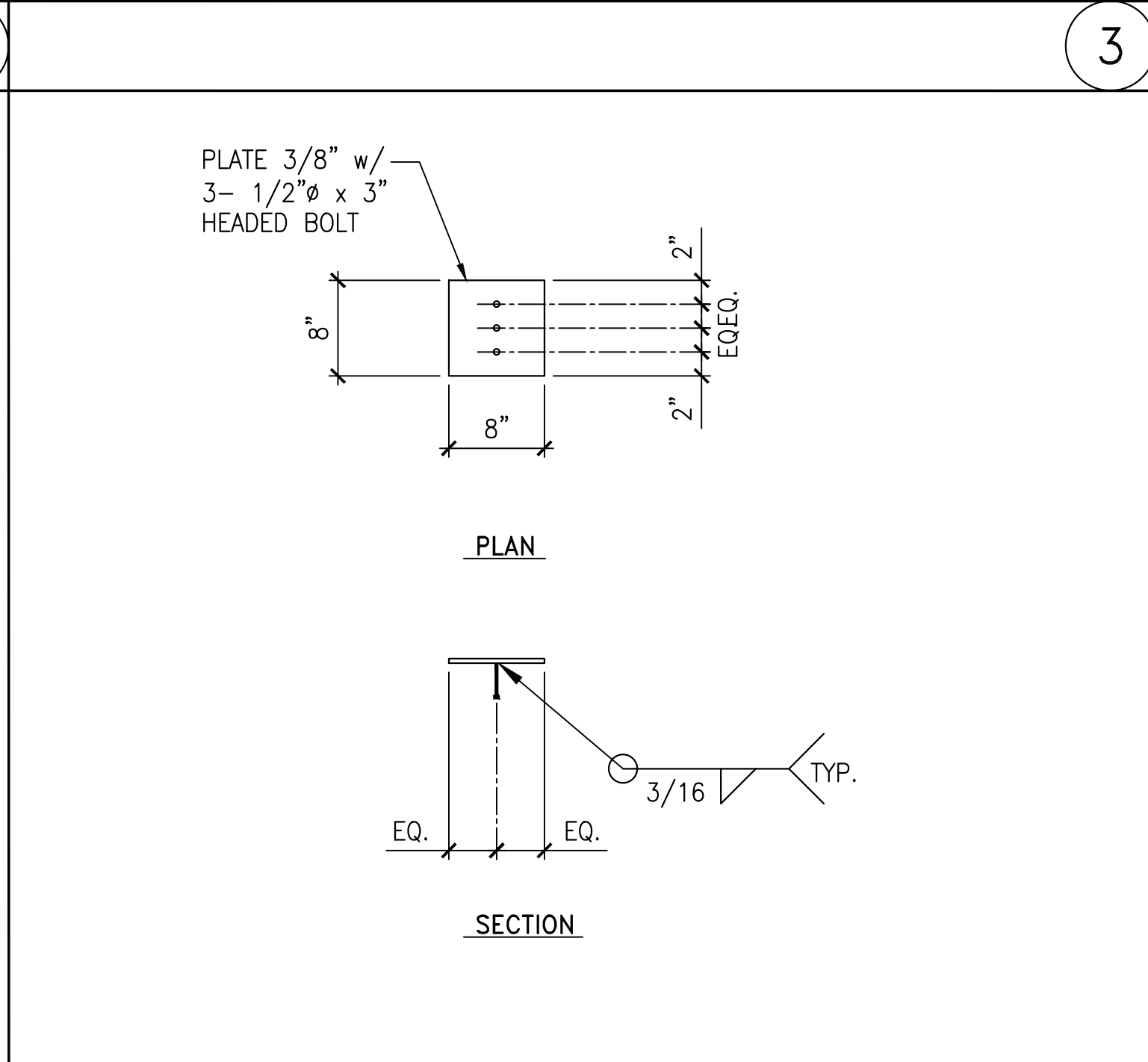
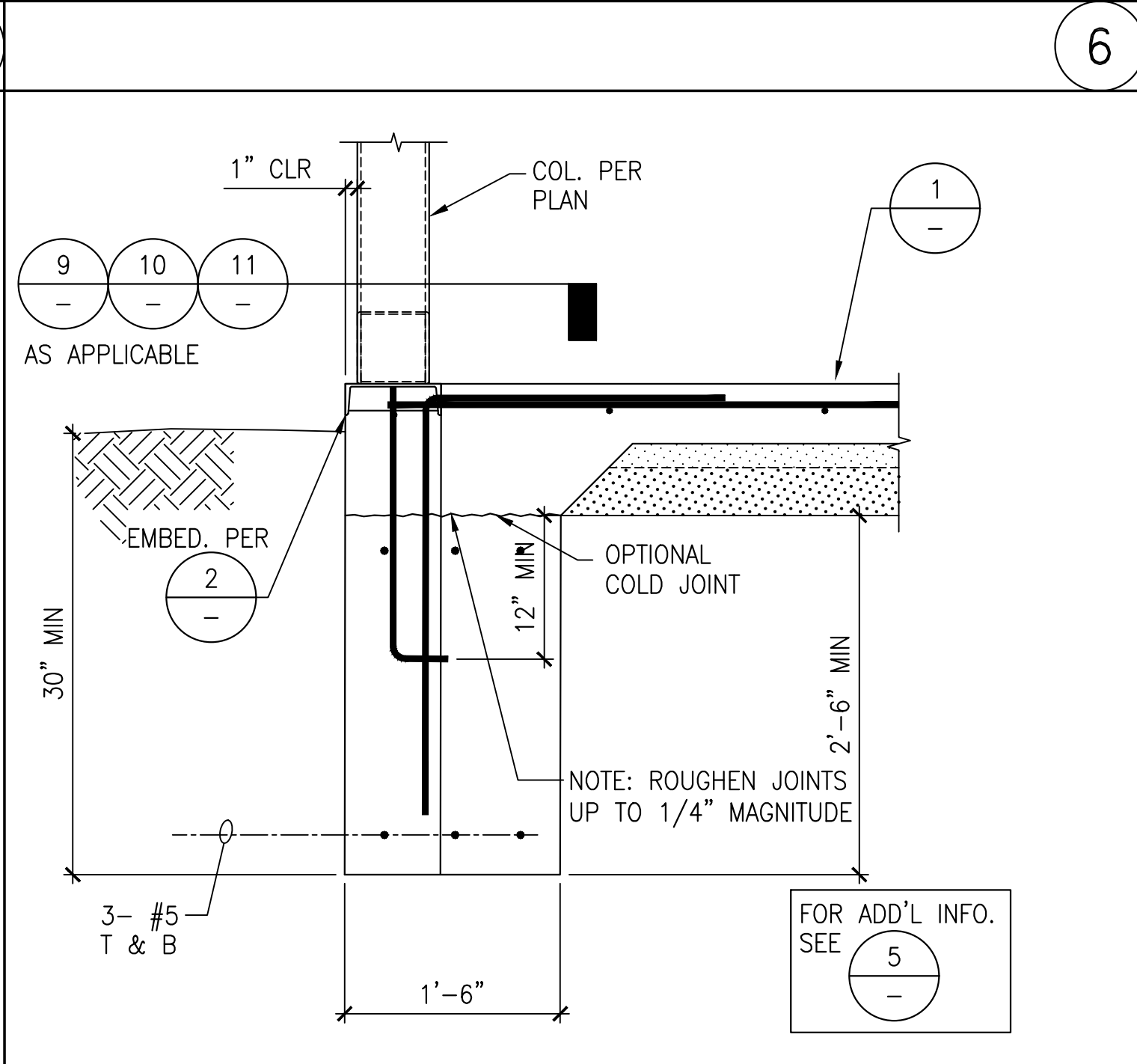
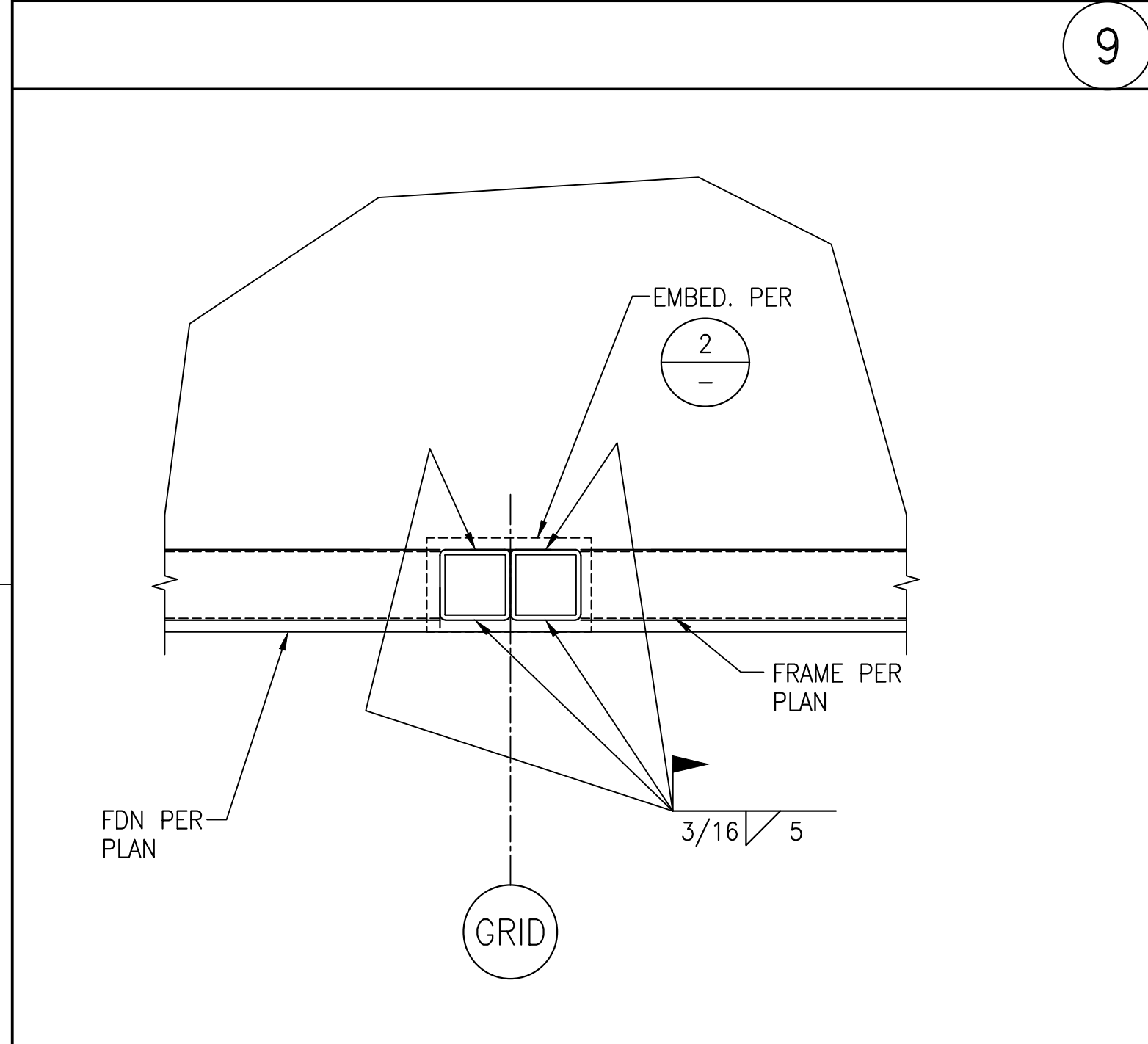
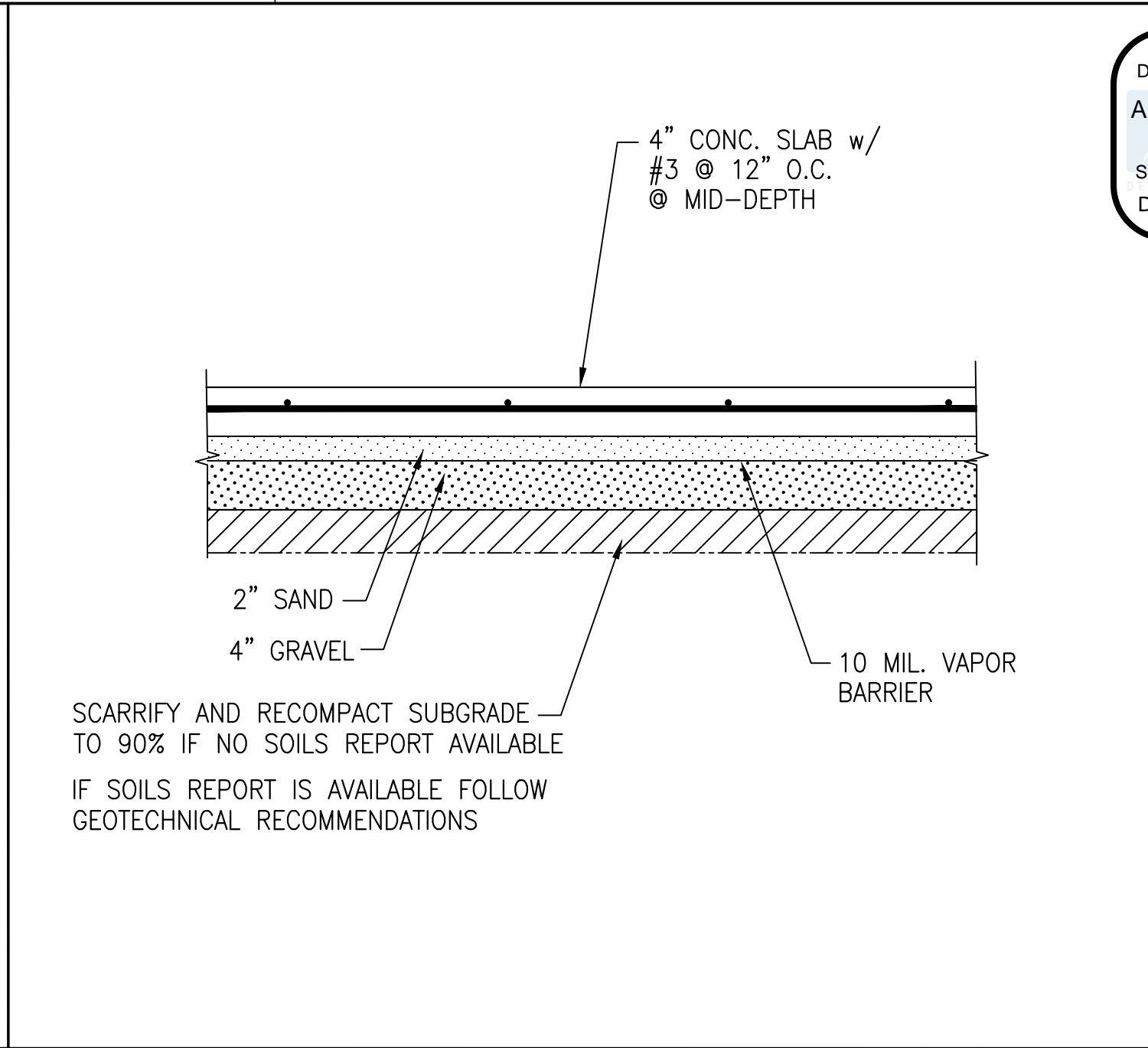
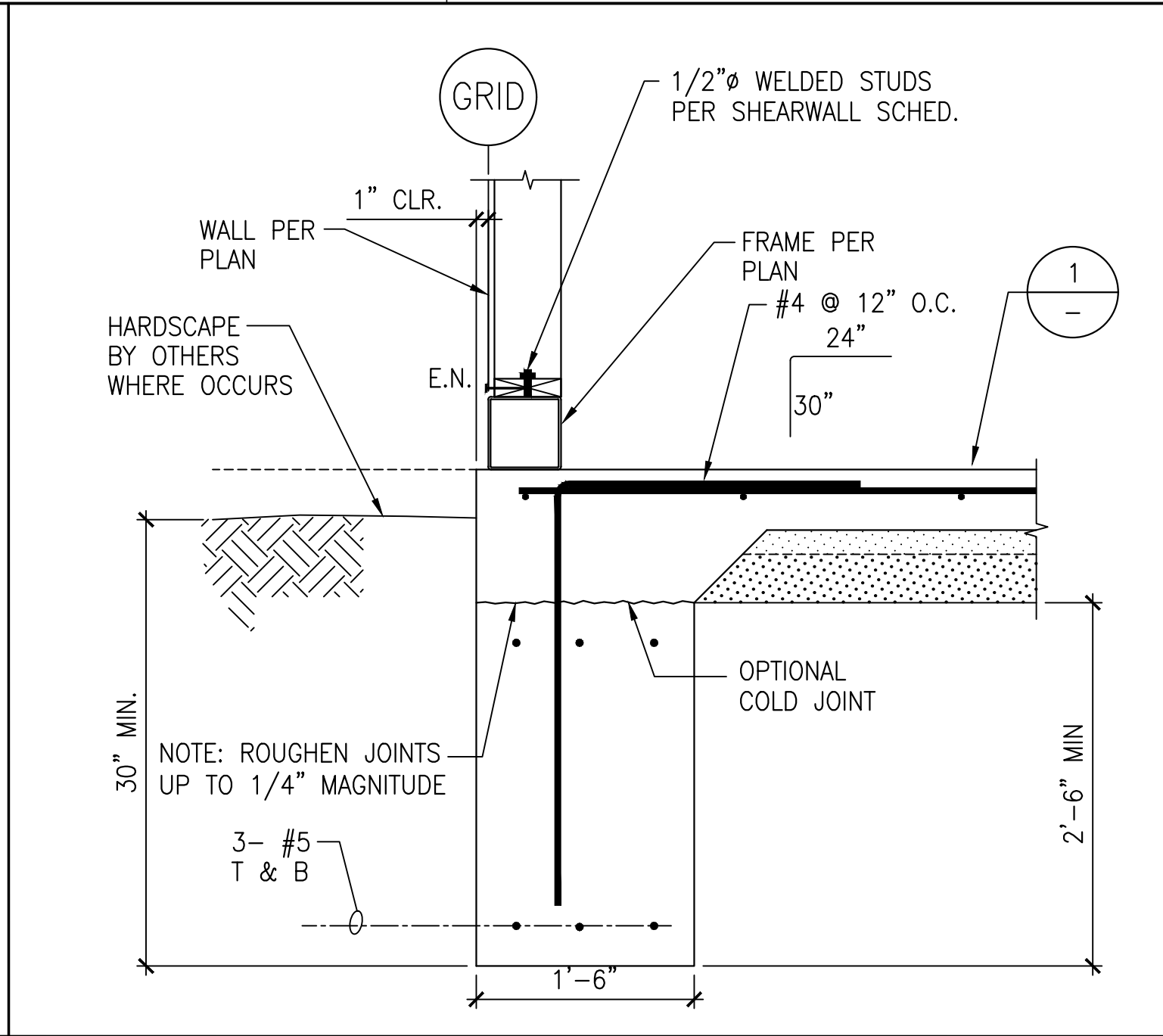
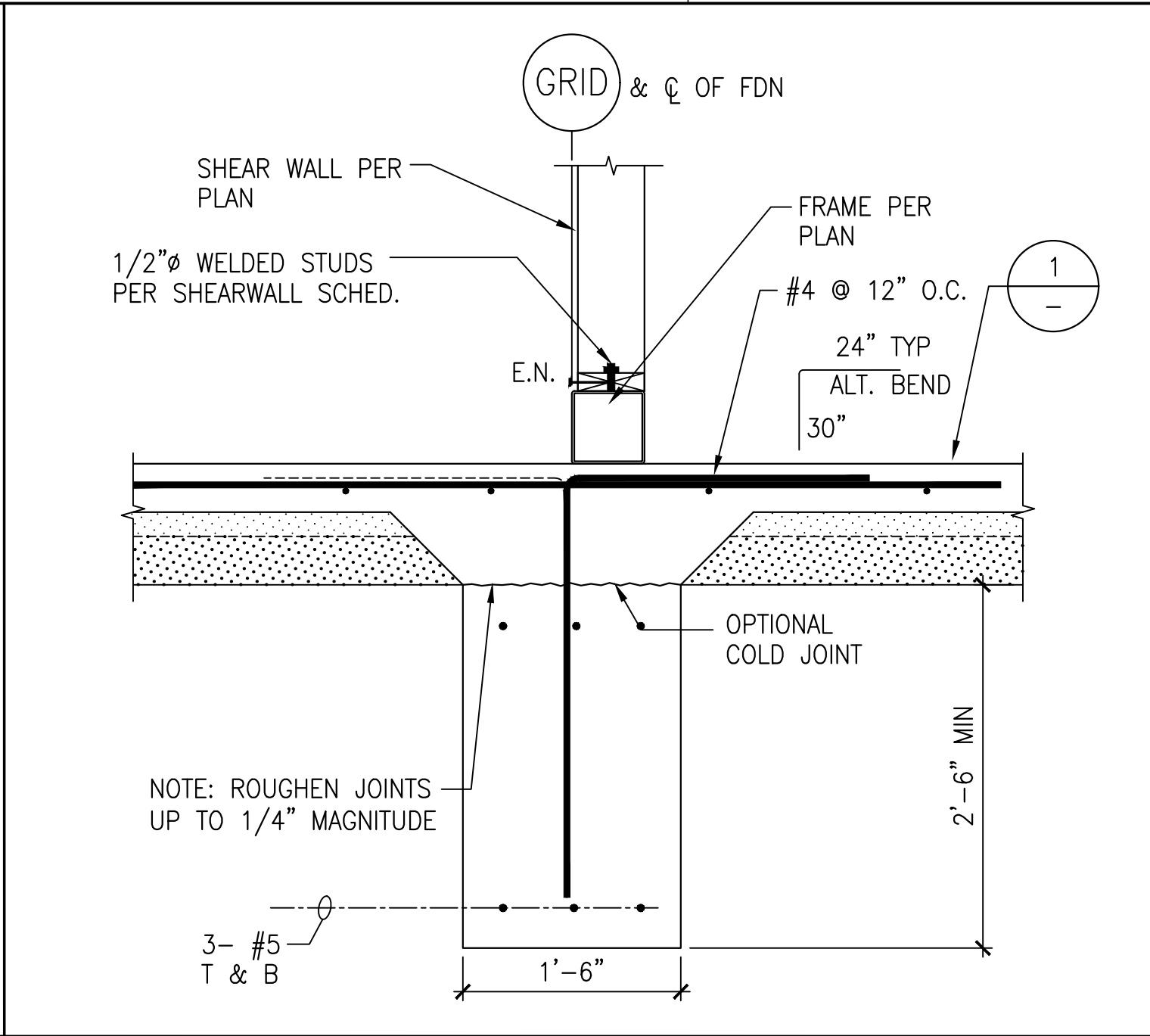
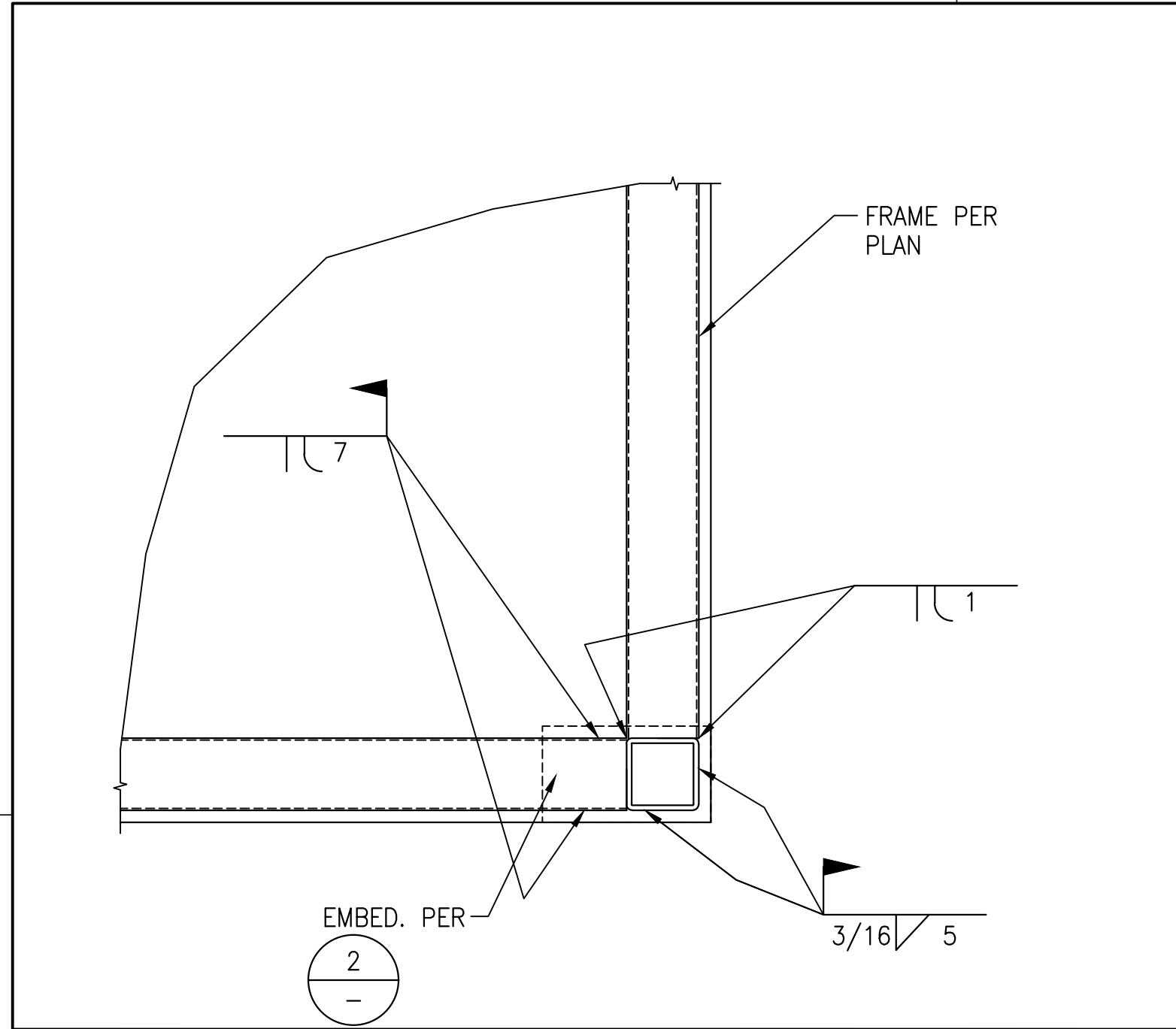


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DSA APPLICATION NUMBER
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RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
FRAME ELEVATIONS
TAFT PRIMARY
ELEMENT SCHOOL
212 LUCAS ST.
TAFT, CA 93286

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S5.10



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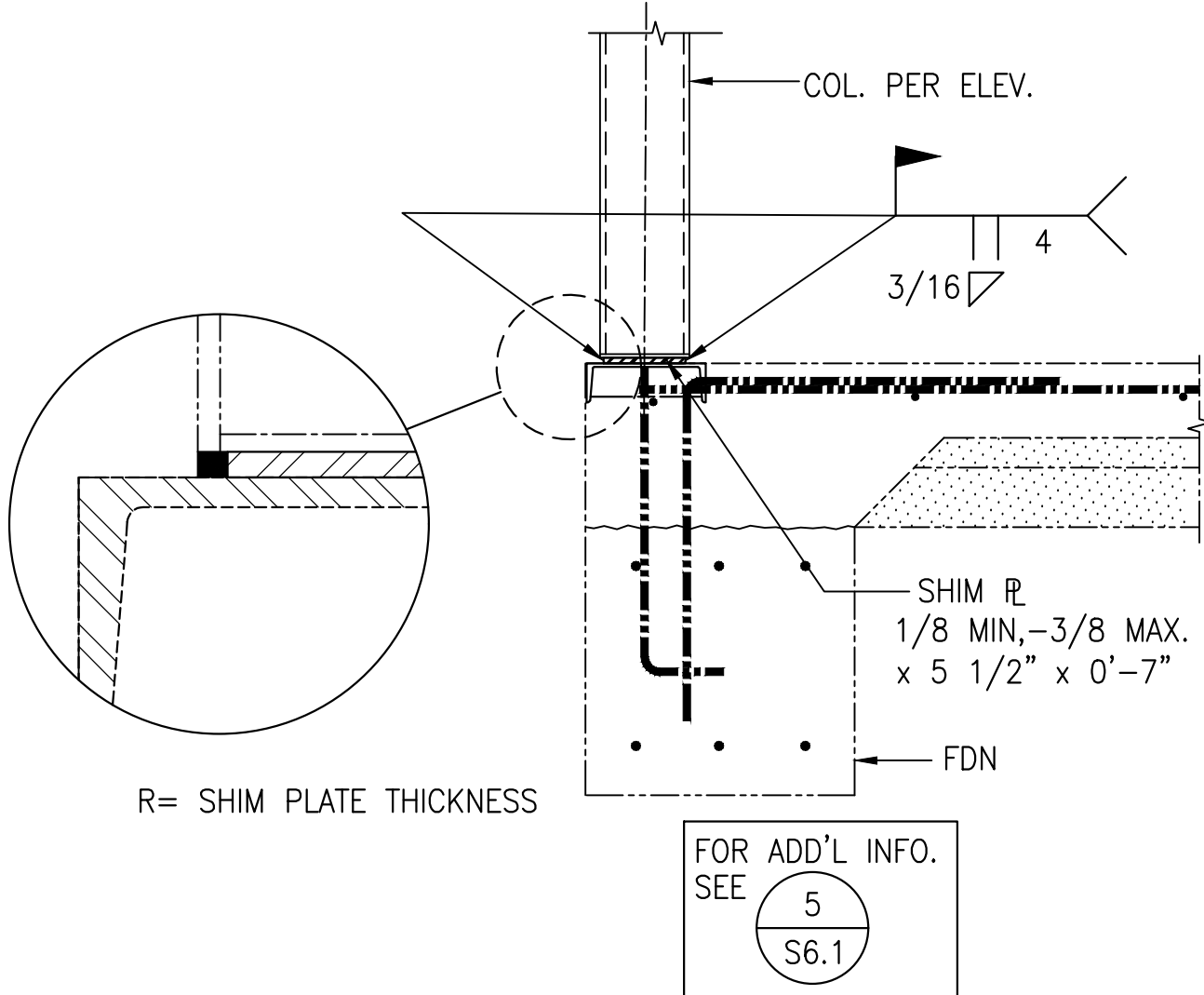
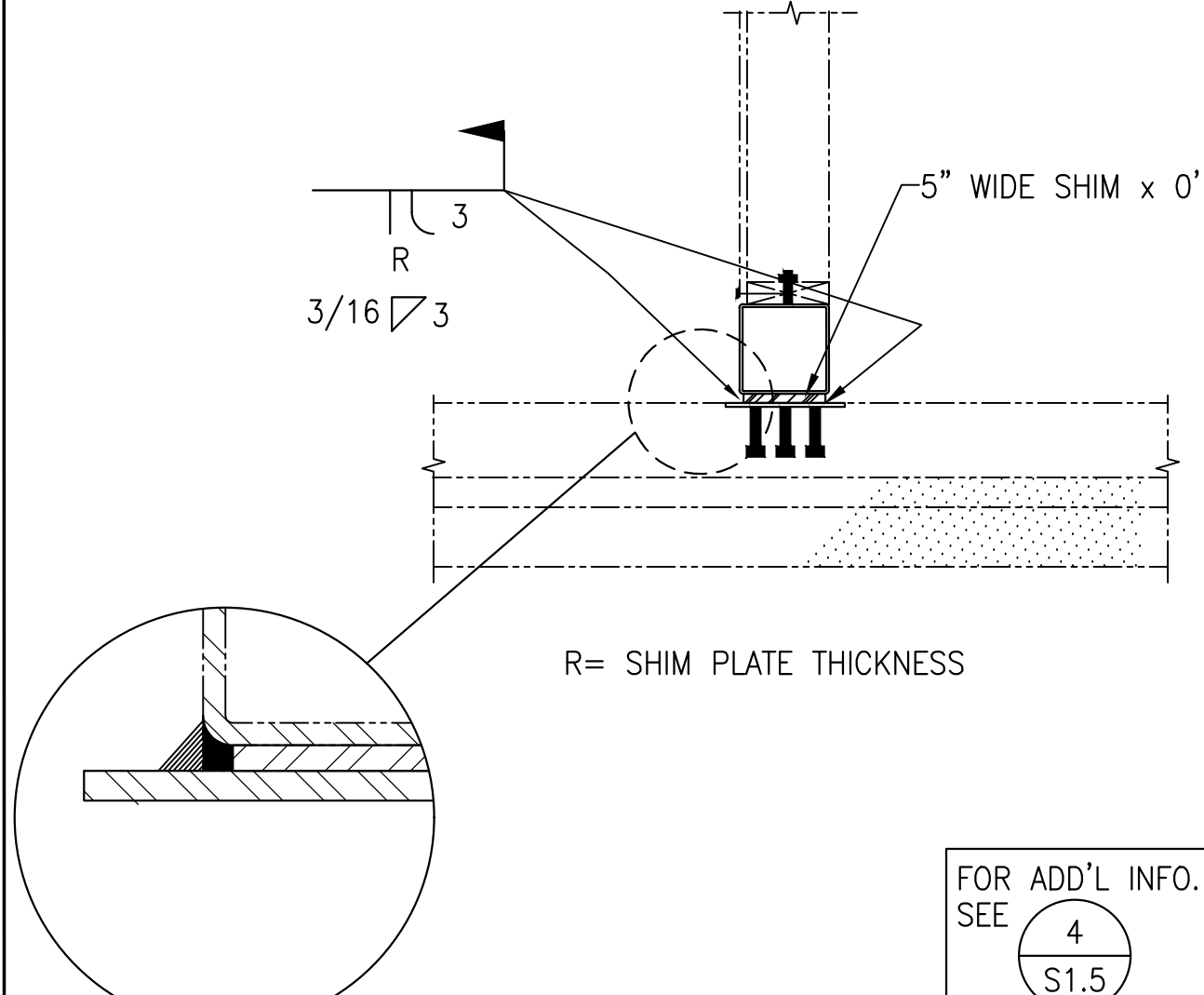
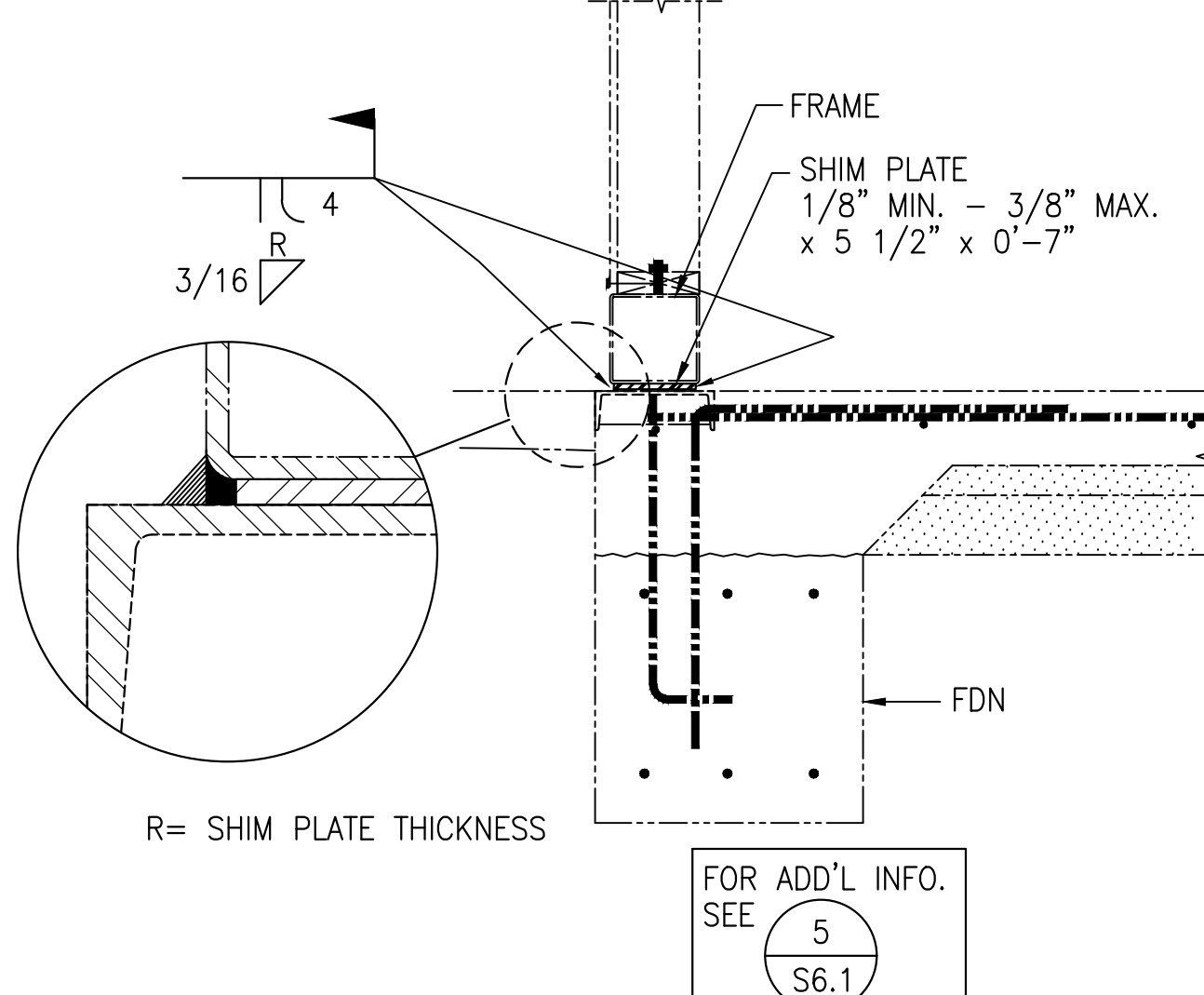
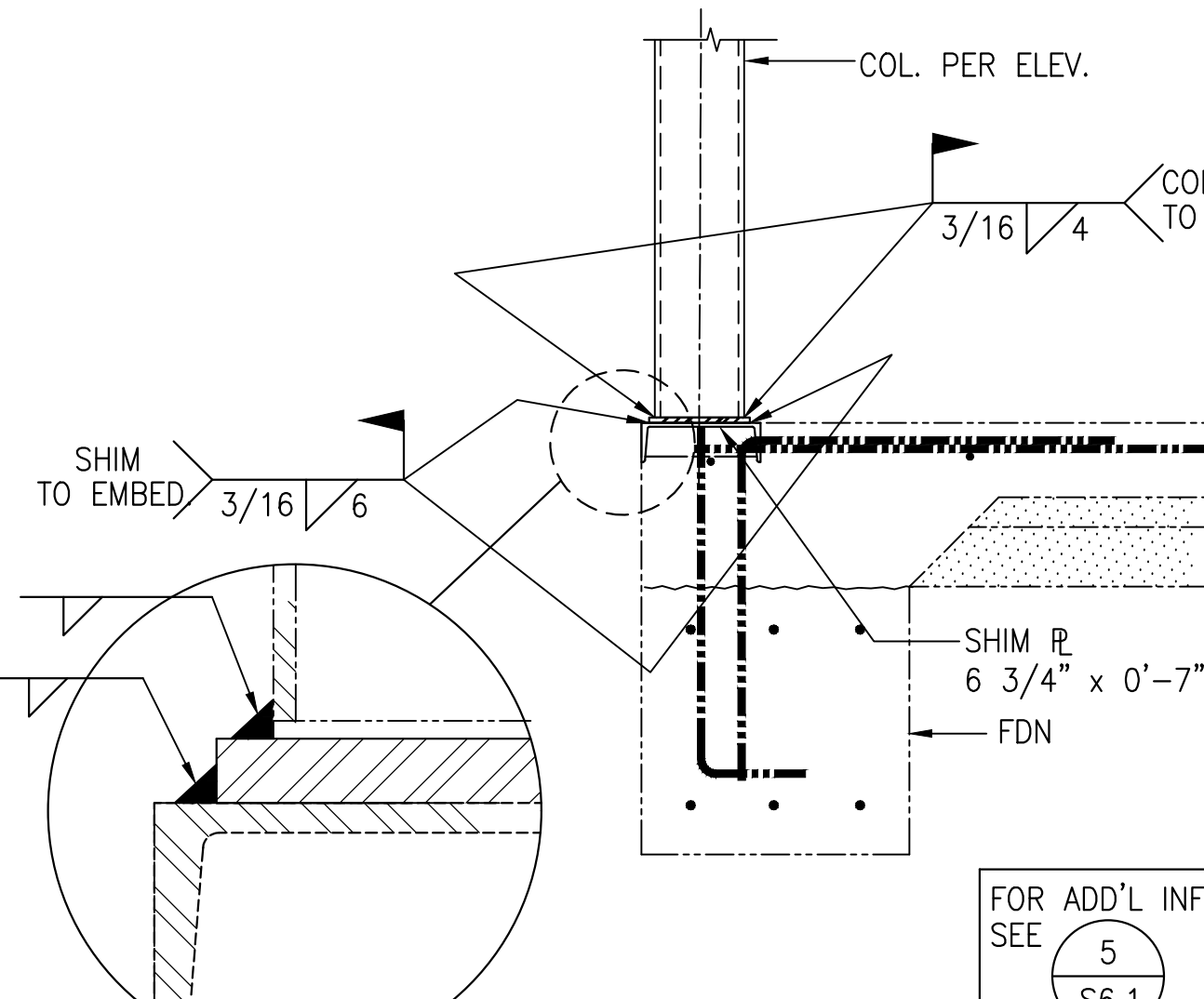
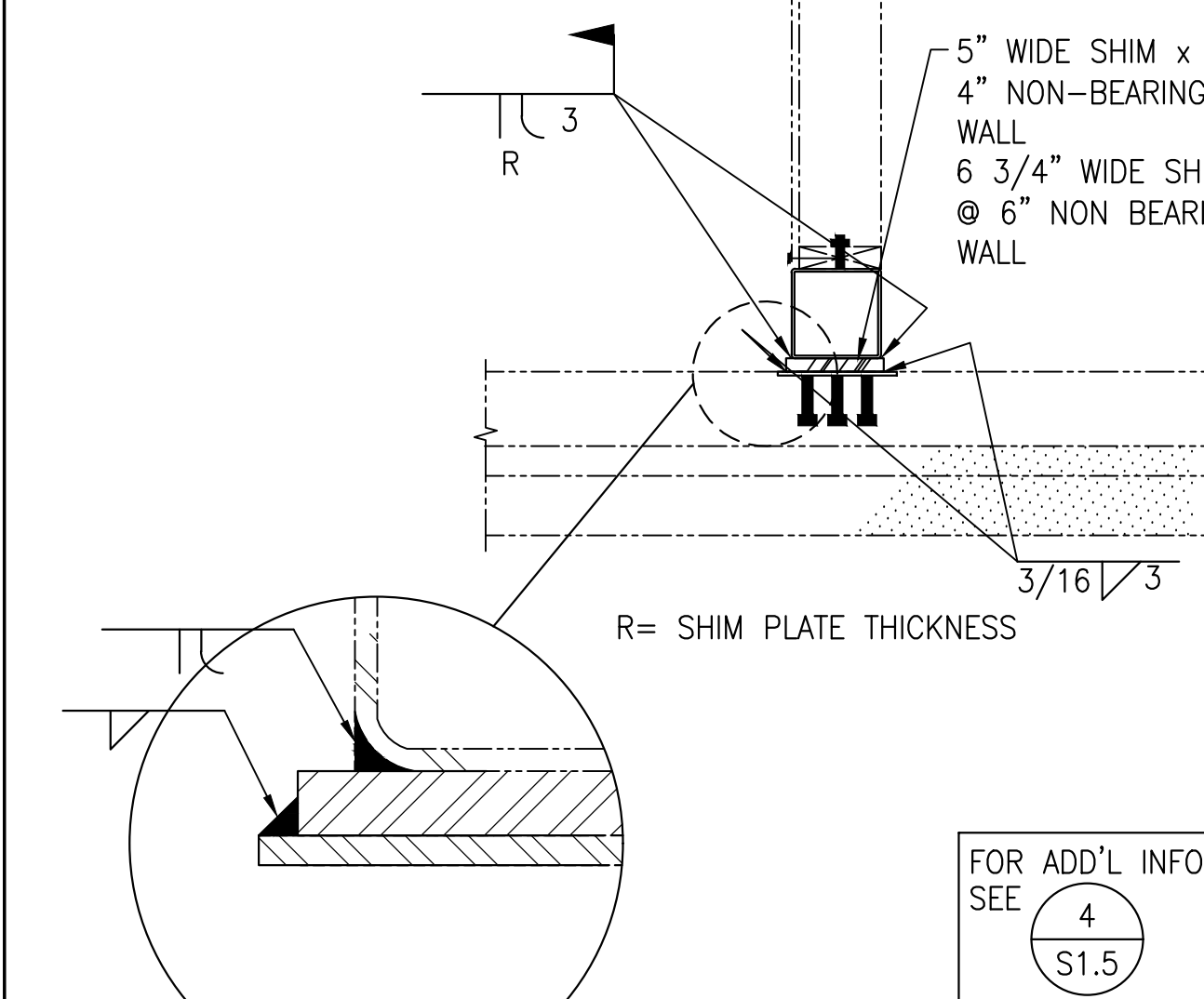
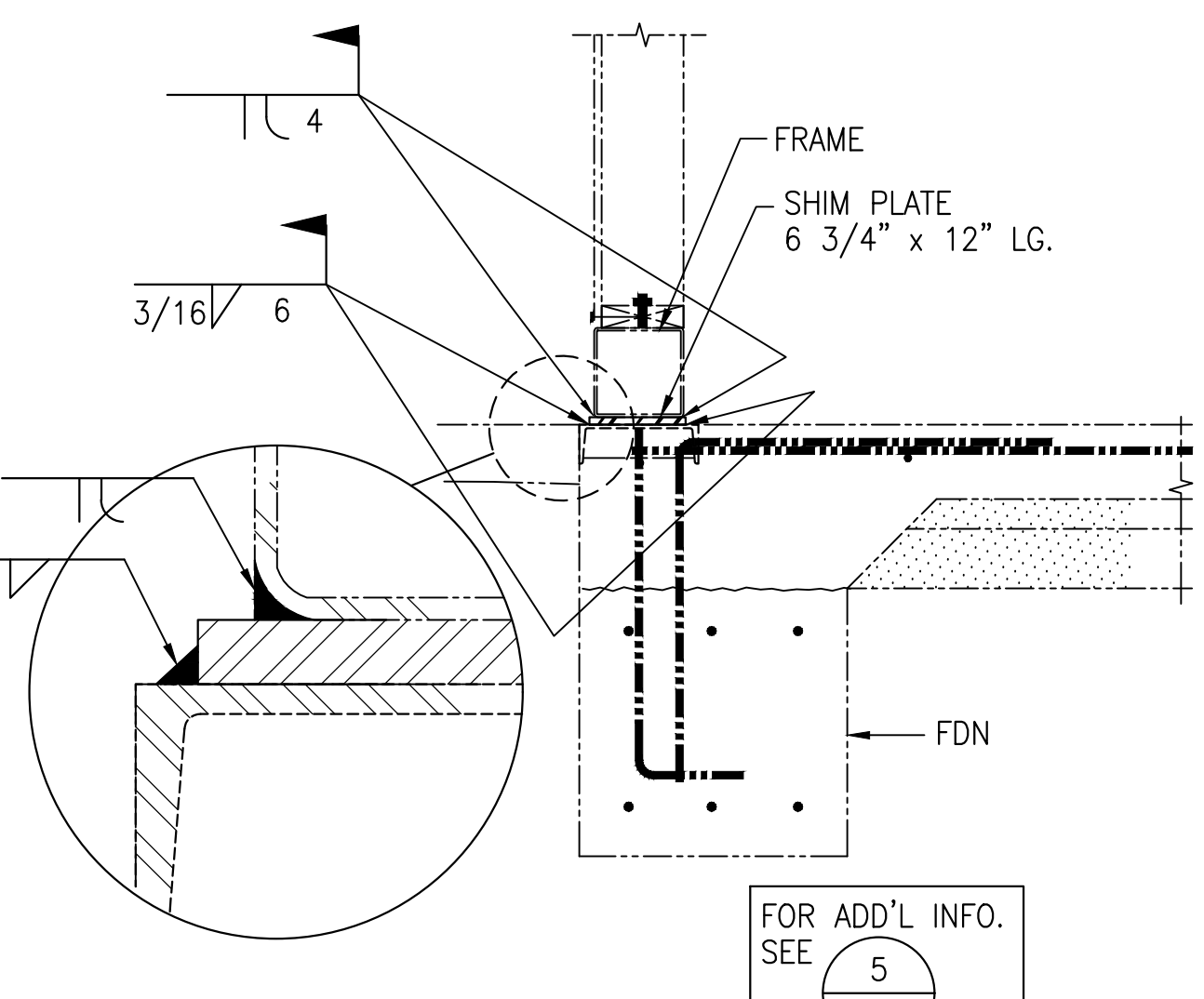


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RELOCATABLE
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40'-0" WIDE MODULAR BUILDING
FOUNDATION DETAILS
WOOD STUD WALLS
DRAWING TITLE

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	 <p>SHIM AT STRUCTURAL CONN.</p>	 <p>SHIM AT NON-BEARING CONN.</p>	 <p>SHIM AT STRUCTURAL CONN.</p>			
9	SHIM $\leq 3/8$ "	6	SHIM $\leq 3/8$ "	3	SHIM $\leq 3/8$ "	1
	 <p>SHIM AT STRUCTURAL CONN.</p>	 <p>SHIM AT NON-BEARING CONN.</p>	 <p>SHIM AT STRUCTURAL CONN.</p>			
10	SHIM $> 3/8$ "	7	SHIM $> 3/8$ "	4	SHIM $> 3/8$ "	2
11		8		5		

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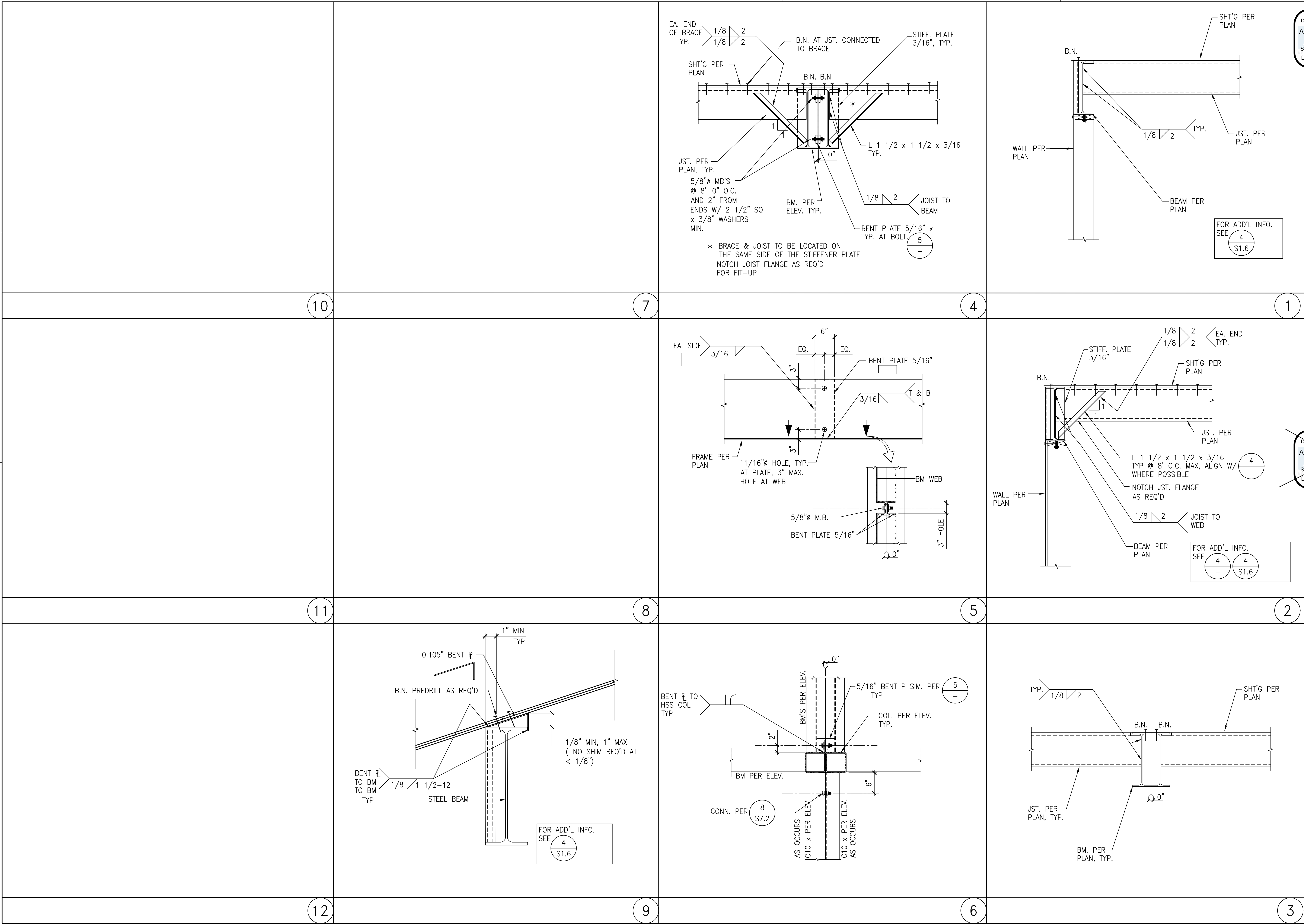


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RELOCATABLE
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40'-0" WIDE MODULAR BUILDING
FOUNDATION SHIM DETAILS
WOOD STUD WALLS
TAFI PRIMARY
ELEM SCHOOL
212 LUCARD ST.
TAFI, CA 93268

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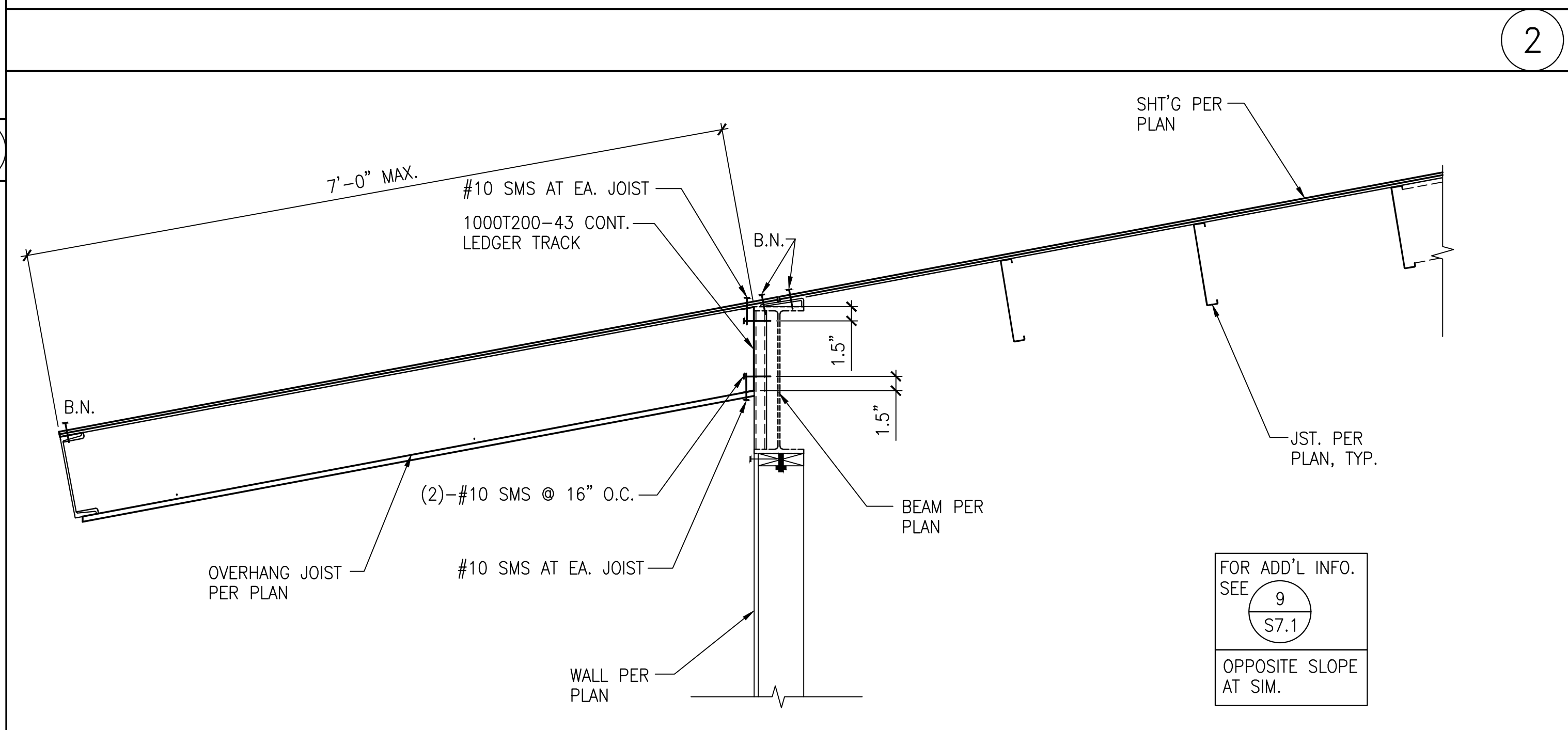
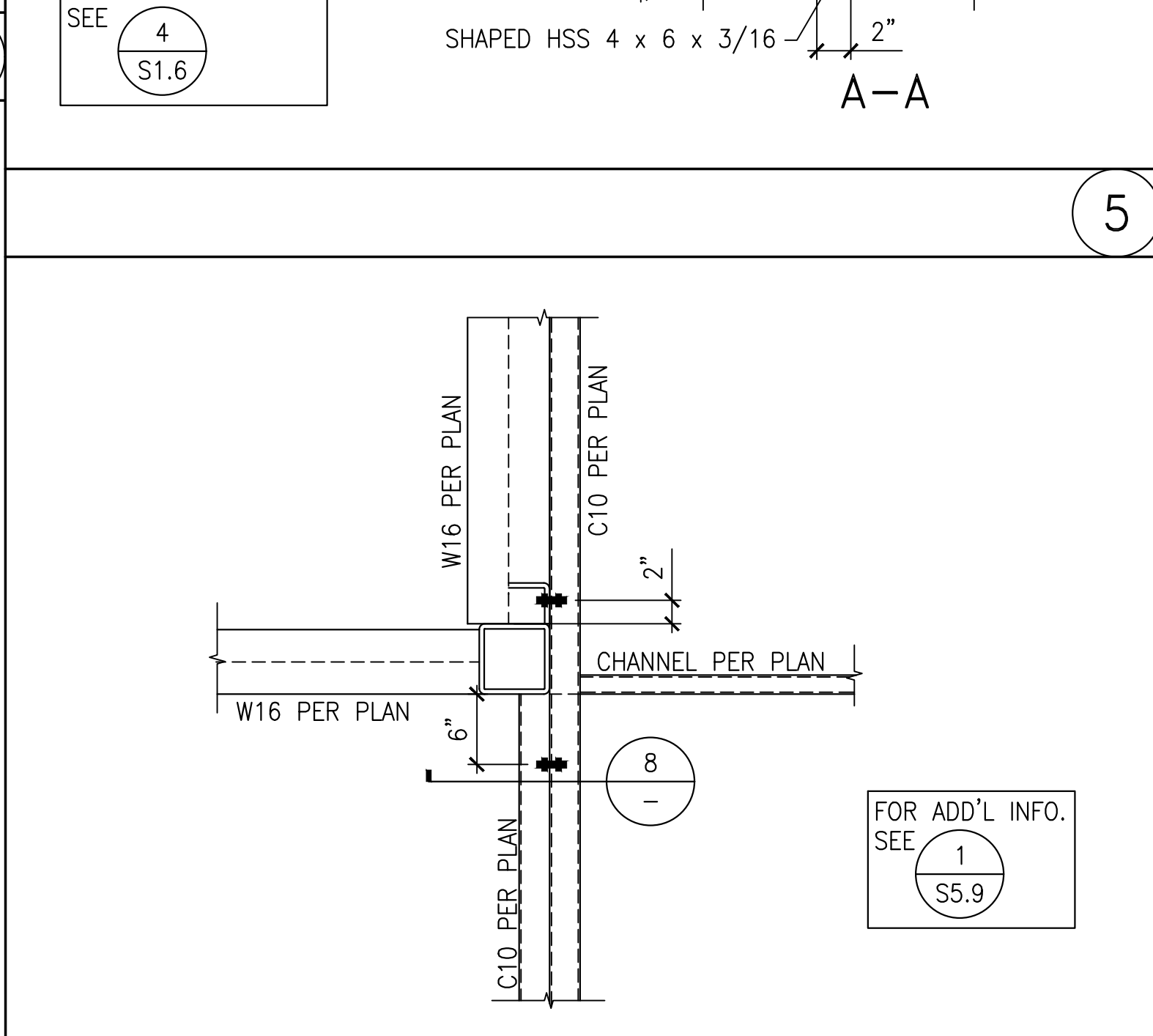
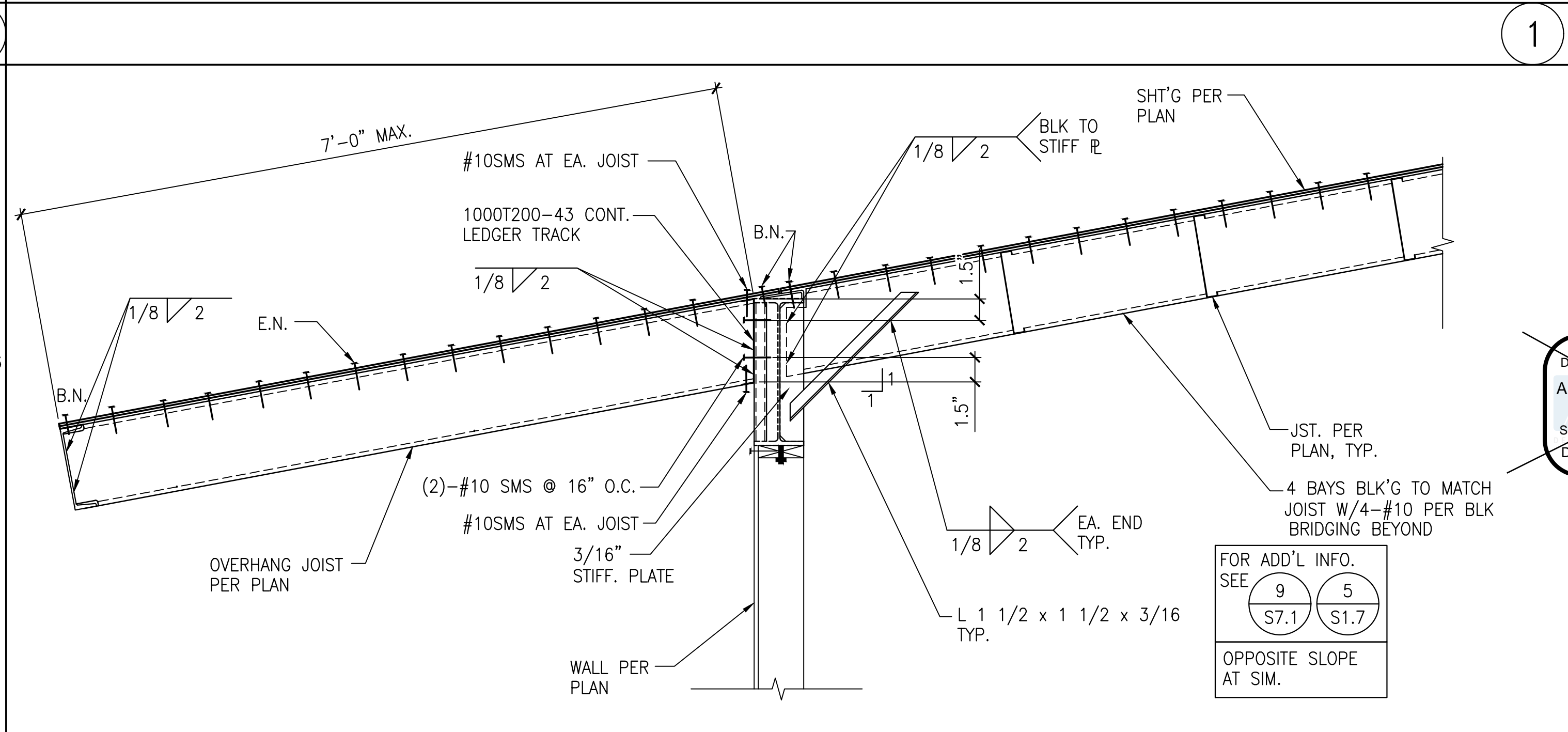
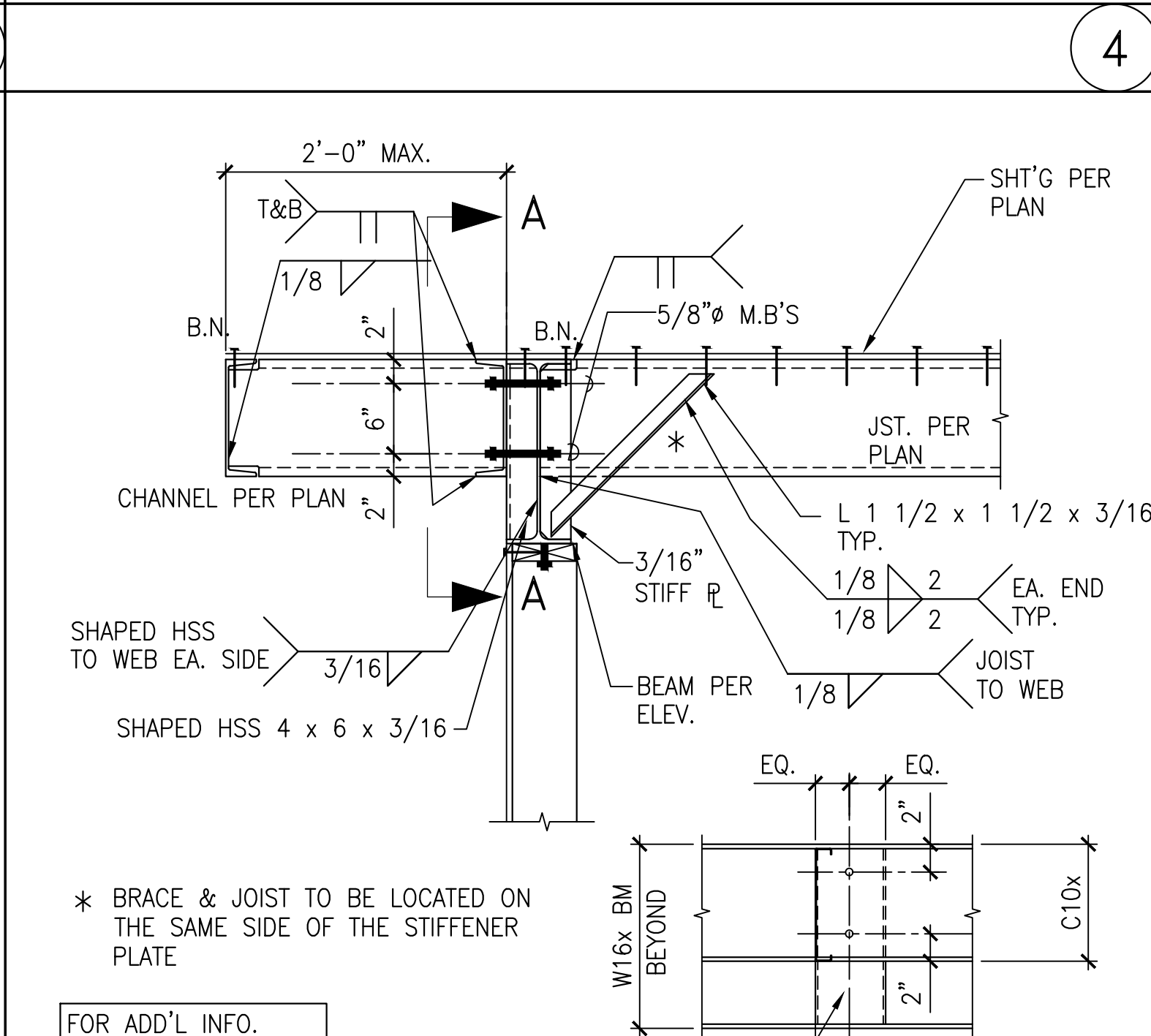
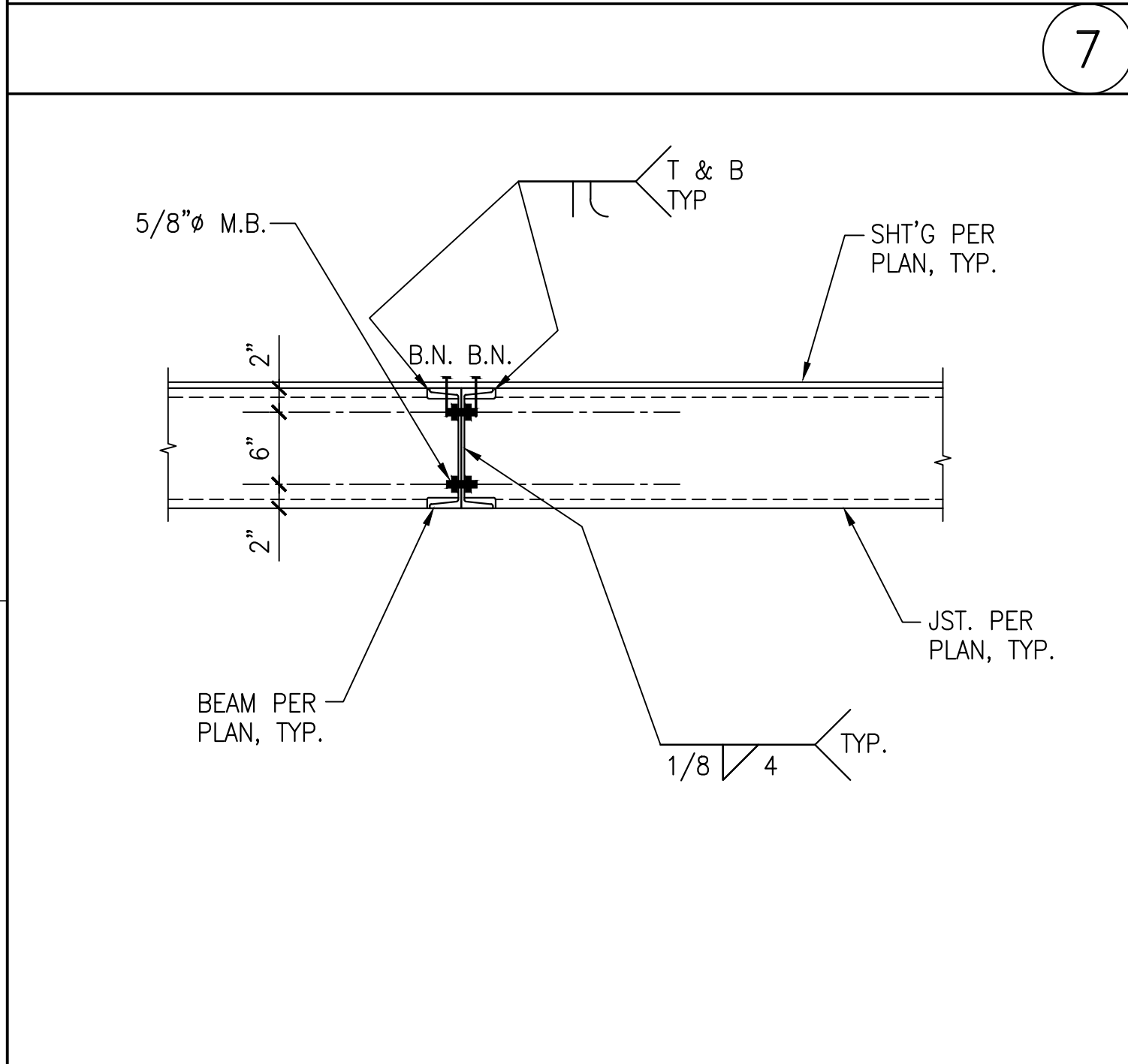
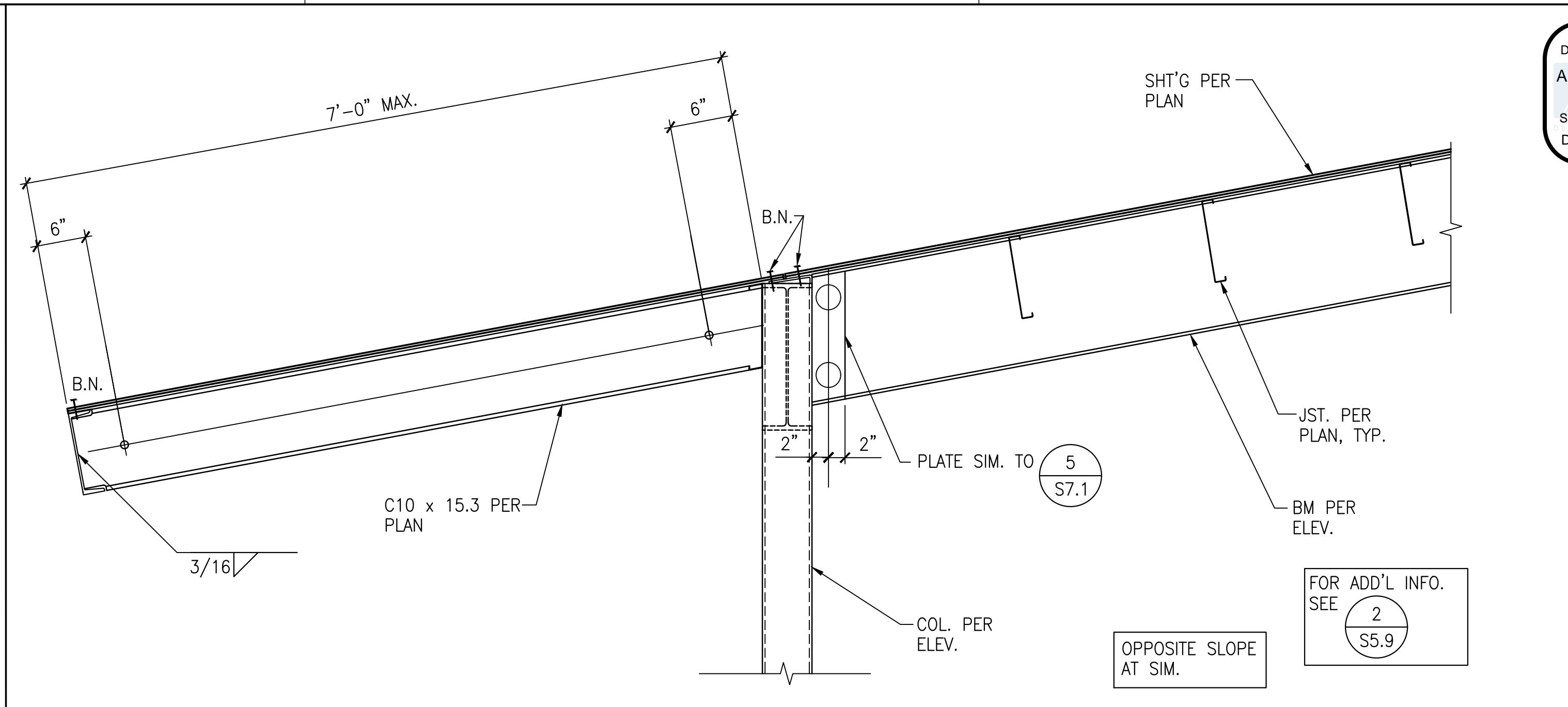
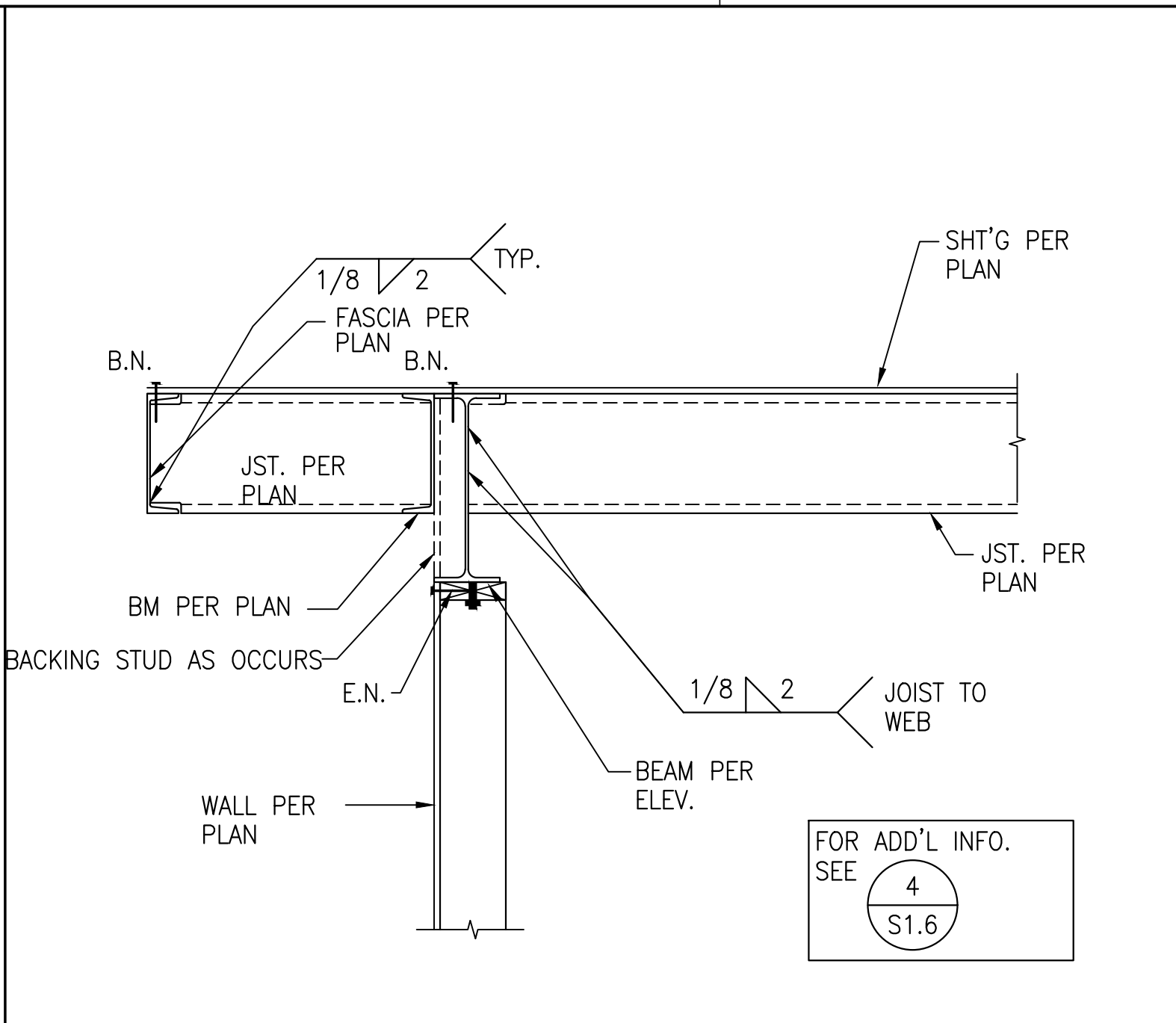
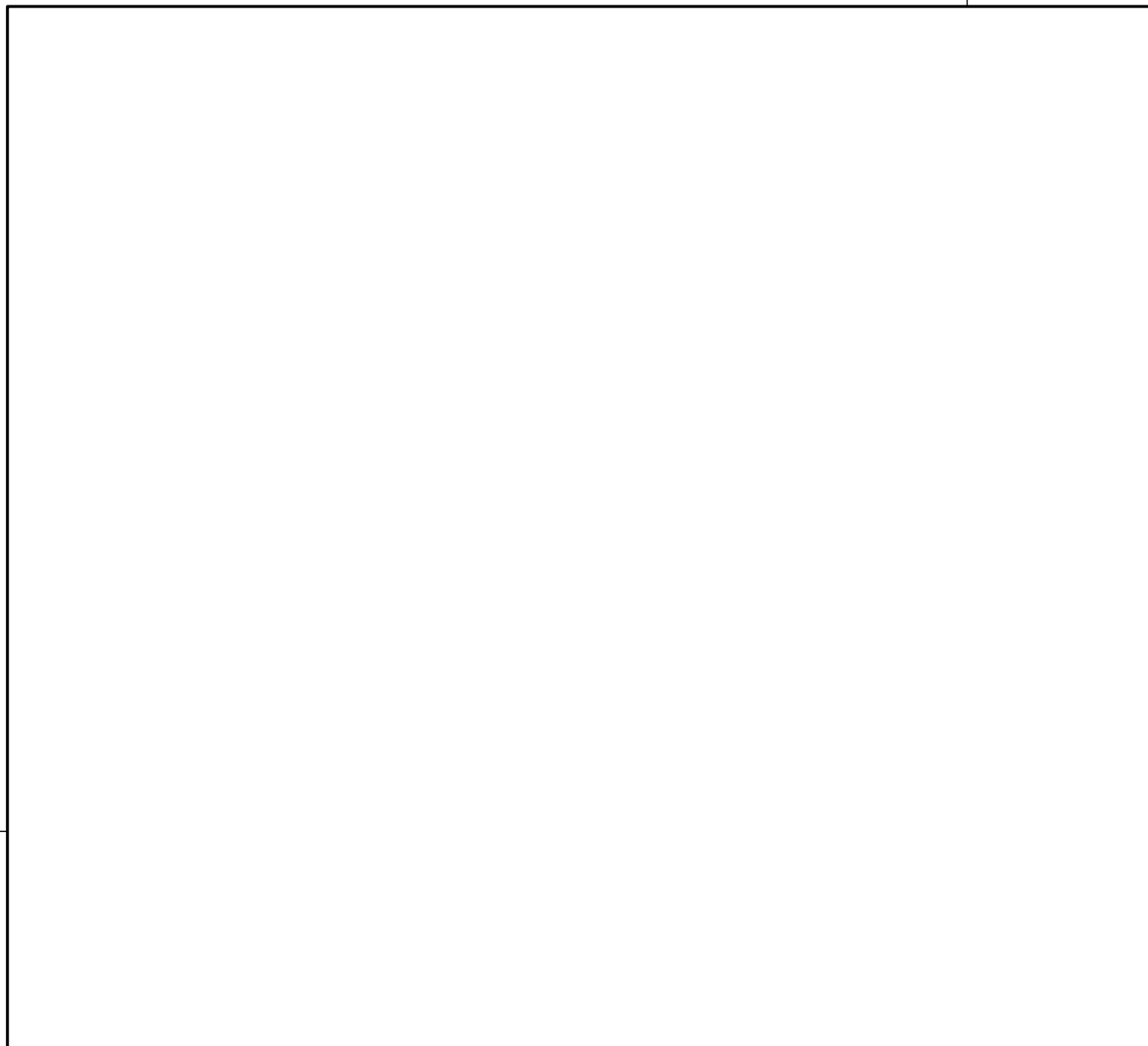


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RELOCATABLE
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40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
WOOD STUD FRAMING DETAILS
TAFI PRIMARY
ELEM SCHOOL
212 LUCARD ST.
TAFI, CA 93268

DSA APP NO.
PROJECT NO.
06-0142
DRAWING
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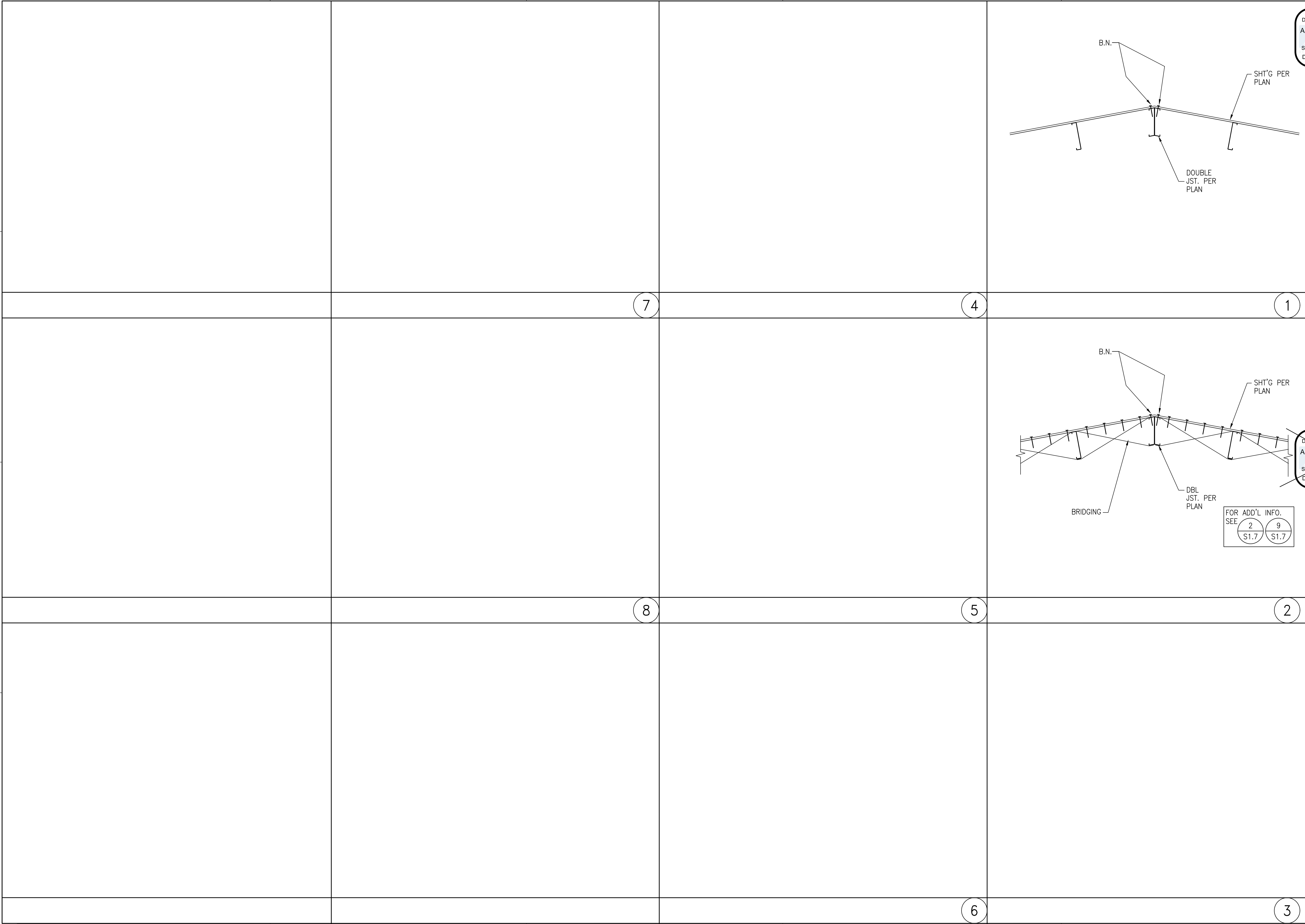
REGISTERED PROFESSIONAL ENGINEER
PLAN J. ORION
No. S 44444
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120983 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CG ☒
DATE: 10/10/2023

CODE: 2022 CBC
DSA APPLICATION NUMBER
02-120983
A separate project application for construction is required

RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
WOOD STUD FRAMING DETAILS
TAFI PRIMARY ELEM SCHOOL
212 LUCARD ST.
TAFI, CA 93266

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06-0142
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FOR ADD'L INFO.
SEE
2
S1.7
9
S1.7

CODE: 2022 CBC
DSA APPLICATION NUMBER
02-120983
A separate project
application for construction
is required

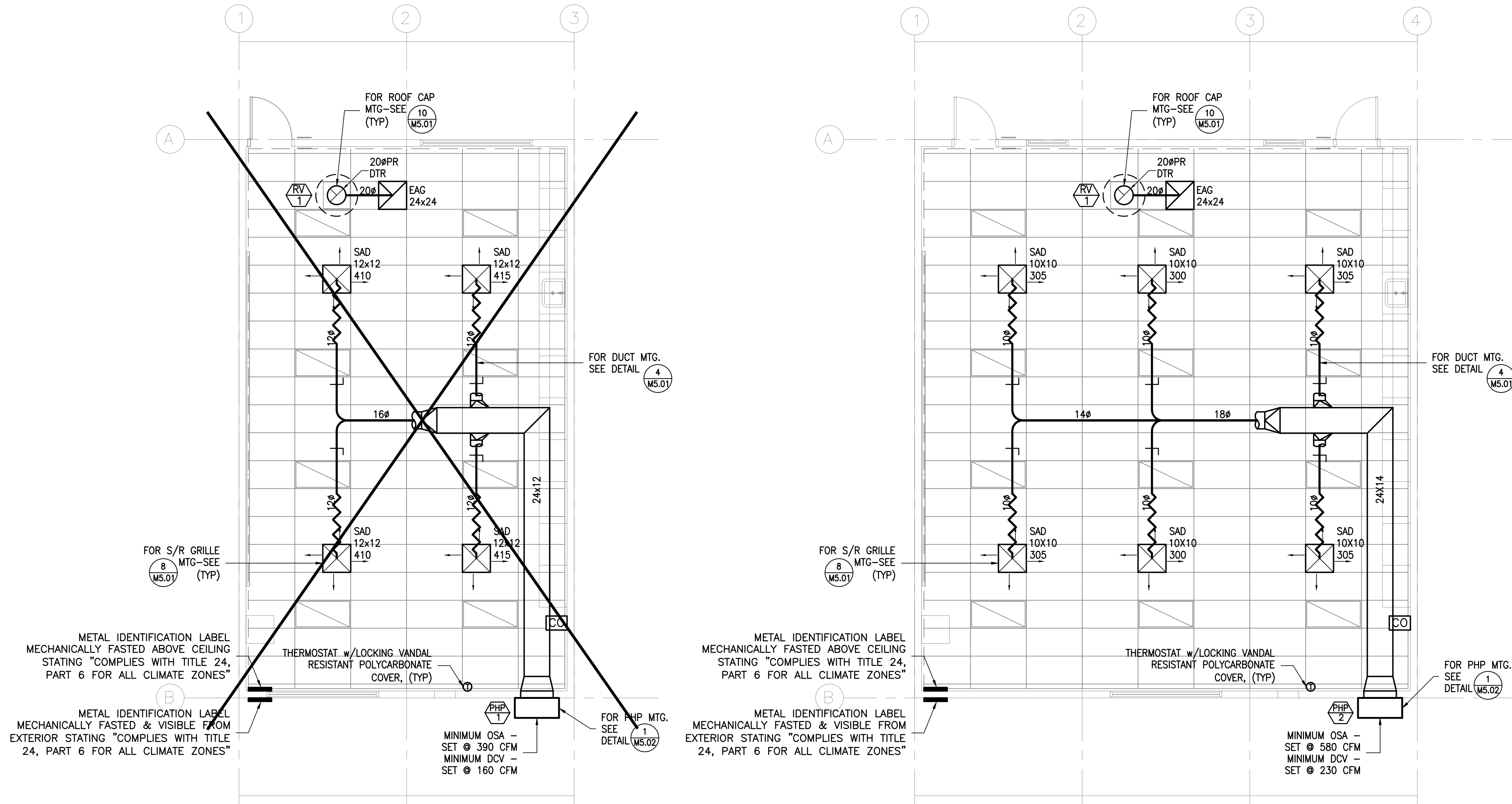
RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
FRAMING DETAILS
TAFT PRIMARY
ELEM SCHOOL
212 LUCARD ST.
TAFT, CA 93289

DSA APP NO.

PROJECT NO.
06-0142

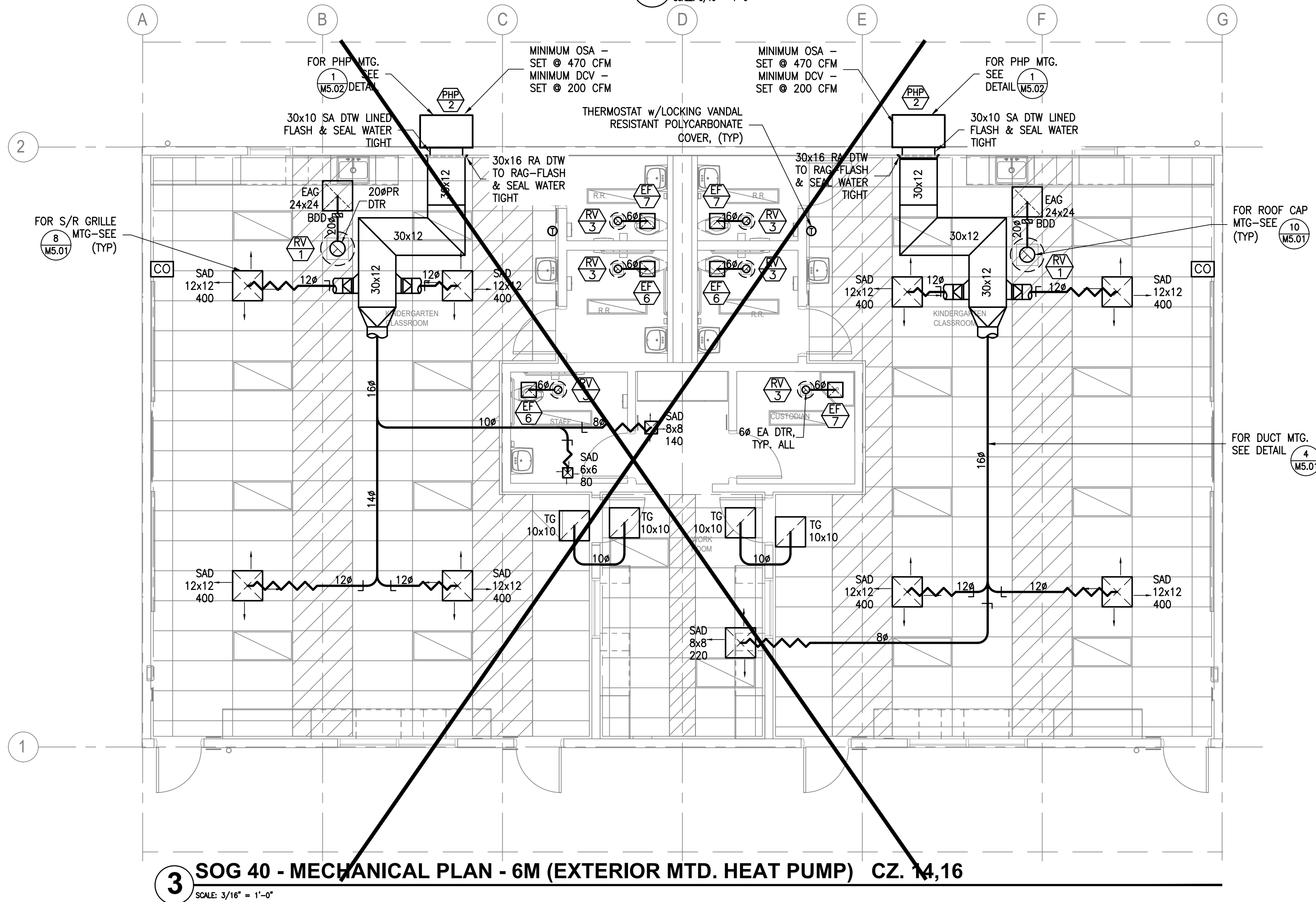
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file: S:\DWGS\2023\JTS\PC SOG 40 C23-022\PC SOG 40 MECH C23-022_REV2.dwg date: 10/2/2023 9:24 AM



1 SOG 40 - MECHANICAL PLAN - 2M (EXTERIOR MTD. HEAT PUMP)
SCALE: 3/16" = 1'-0"

2 SOG 40 - MECHANICAL PLAN - 3M (EXTERIOR MTD. HEAT PUMP)
SCALE: 3/16" = 1'-0"



3 SOG 40 - MECHANICAL PLAN - 6M (EXTERIOR MTD. HEAT PUMP) CZ. 14.16
SCALE: 3/16" = 1'-0"

MECHANICAL NOTES

AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE IN THE FACTORY OR ON THE CONSTRUCTION SITE, DURING SHIPMENT AND UNTIL FINAL STARTUP OF THE HEATING COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED DISTRIBUTION COMPONENT OPENINGS SHALL BE PROTECTED TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.

FILTERS TO BE 2" MERV 13 MINIMUM REQUIRED ON ALL MECHANICAL SYSTEMS.

ADJUST OUTDOOR AIR REQUIREMENTS BASED ON NUMBER OF OCCUPANTS EXPECTED BY OWNER.

UPON SITE PLACEMENT OR SITE CONSTRUCTION, THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY MODULAR BUILDING MANUFACTURER, OR THE GENERAL CONTRACTOR FOR THE PERMANENT MODULAR RELOCATABLE BUILDING AND DELIVERED TO THE OWNER.

INTERLOCK EXHAUST FANS W/ LIGHTING - SEE DETAIL 5/E5.04

FOR REGISTER TYPE REFER TO REGISTER SCHEDULE ON SHEET M0.01

ALL SUPPLY DUCTS SHALL BE INSULATED TO A R-4.2 MIN.

INSTALL BARD #8403-067 CO2 SENSOR WHICH MUST BE PLACED IN THE ROOM IN A TAMPER-PROOF MANNER, BETWEEN 3FT. & 6FT. ABOVE THE FLOOR AND AT LEAST 5FT. AWAY FROM DOORS & OPERABLE WINDOWS. CO2 SENSOR INCLUDES A DISPLAY SHOWING PPM IN THE SPACE. IT SHALL PROVIDE NOTIFICATION WHEN CARBON DIOXIDE HAS EXCEEDED 1,100 PPM IN SPACE. CO2 SENSOR TO MEASURE LEVELS @ A MIN. 15 MINUTE INTERVALS AND MAINTAIN A RECORD OF PREVIOUS MEASUREMENTS OF NOT LESS THAN 30 DAYS. CO2 SENSOR TO HAVE THE CAPACITY TO MEASURE LEVELS WITH A RANGE OF 400 PPM TO 2,000 PPM OR GREATER.

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PRE-CHECK (PC) DOCUMENT
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MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
MECHANICAL PLANS: 2M, 3M & 6M
(EXTERIOR MTD. HEAT PUMP)

DSA APP NO.

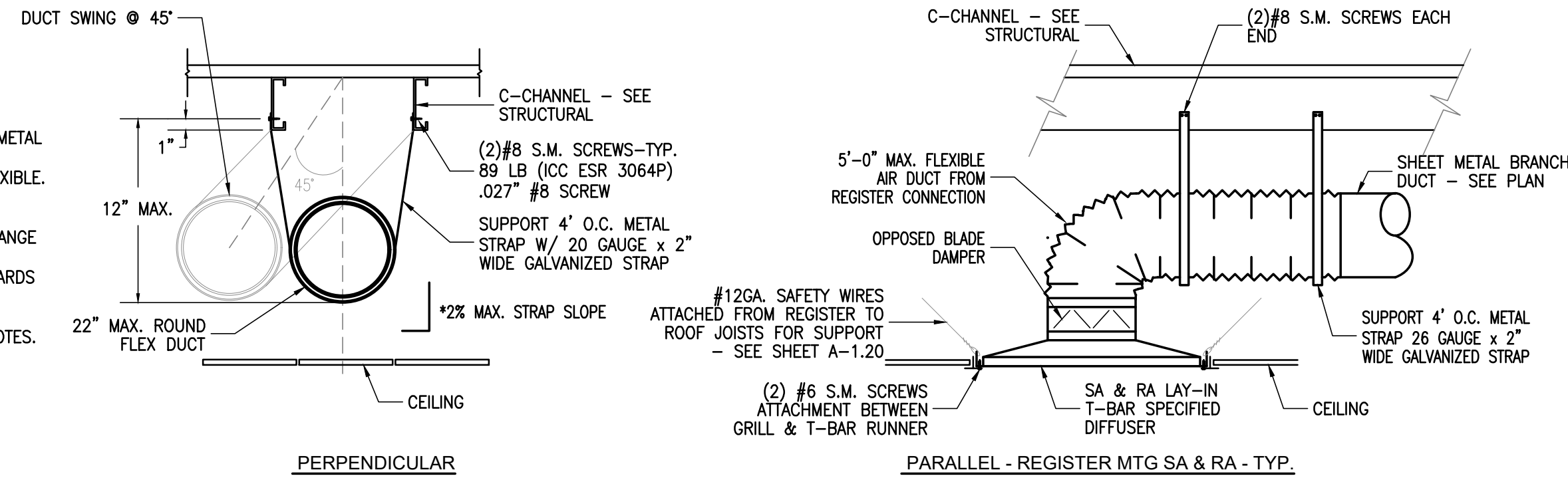
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M1.01

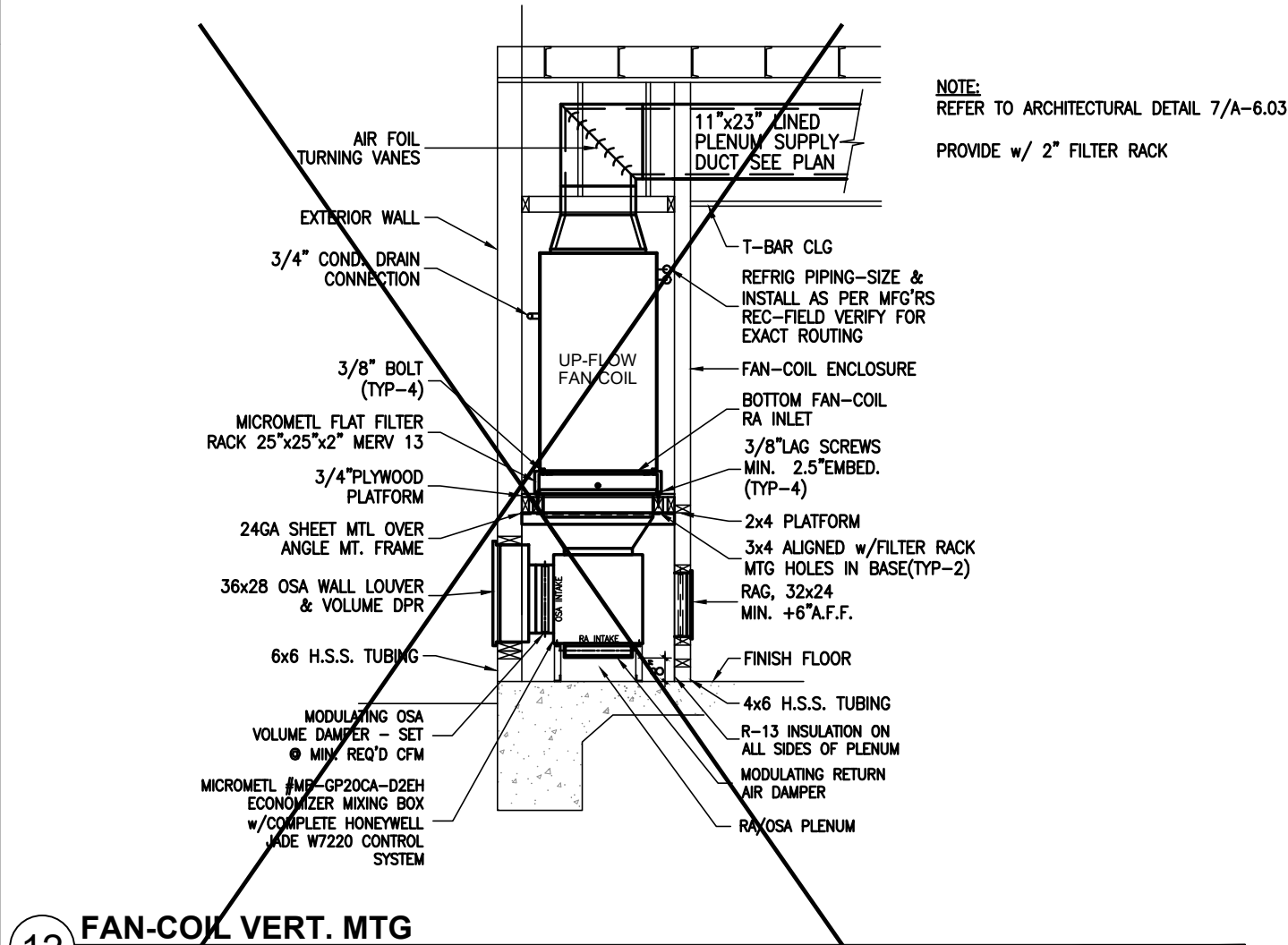


LICENSE #E18218
CANTELM ENGINEERING
2130 F STREET
BAKERSFIELD, CA 93301
TEL: (661) 324-5252
FAX: (661) 324-8439
Cantelmi@Cantelmi.NET
10/2/23

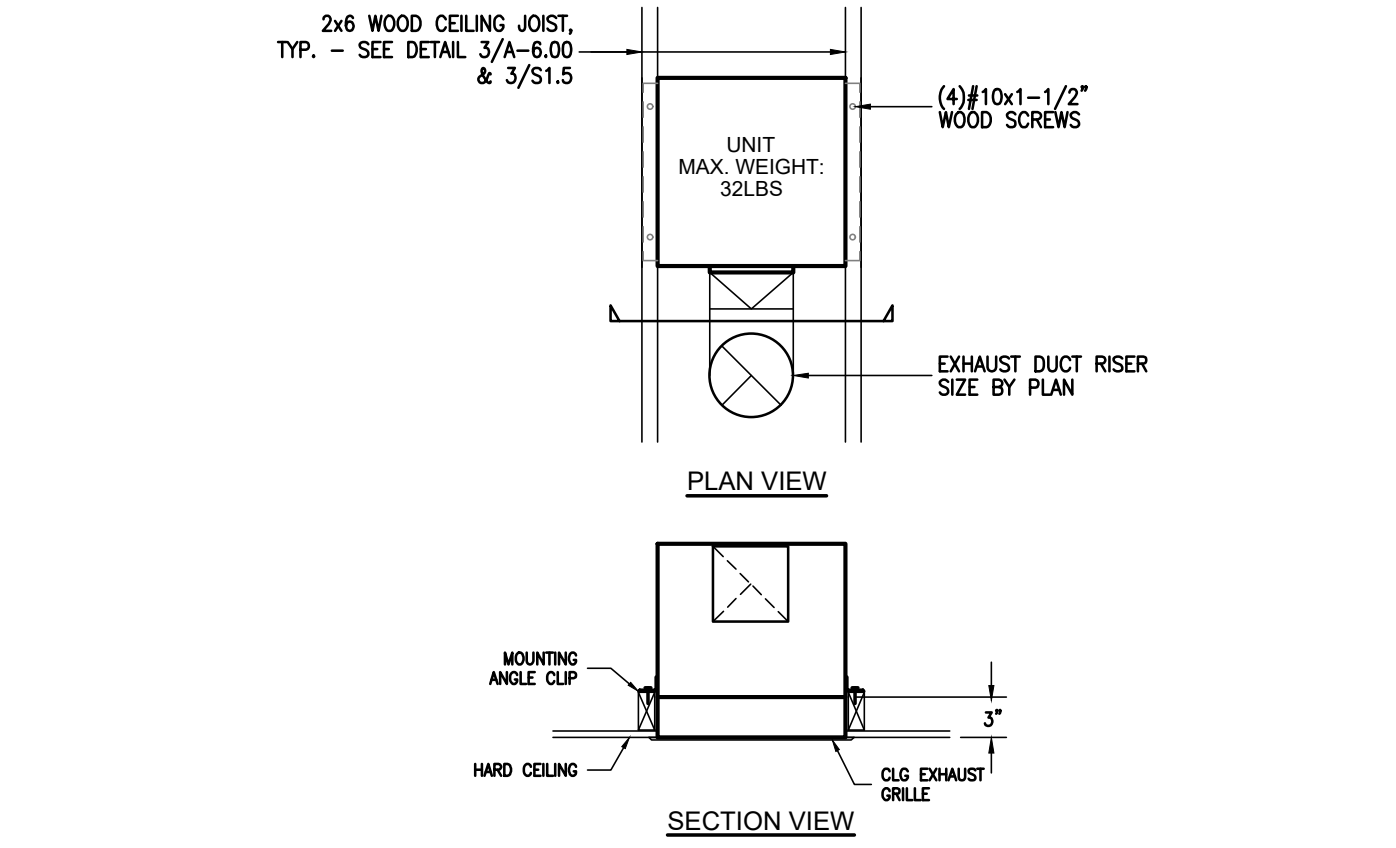
NOTE:
2022 CALIFORNIA MECHANICAL CODE
CHAPTER 6, SECTION 602.3
METAL DUCTS, PLENUMS, OR FITTINGS OF METAL SHALL COMPLY WITH SMACNA HVAC CONSTRUCTION STANDARDS METAL AND FLEXIBLE.
CHAPTER 6, SECTION 603.3
DUCTS SHALL BE SUPPORTED AT EACH CHANGE OF DIRECTION AND IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE.
REFER TO SHEET M-0.01 FOR BRACING NOTES.



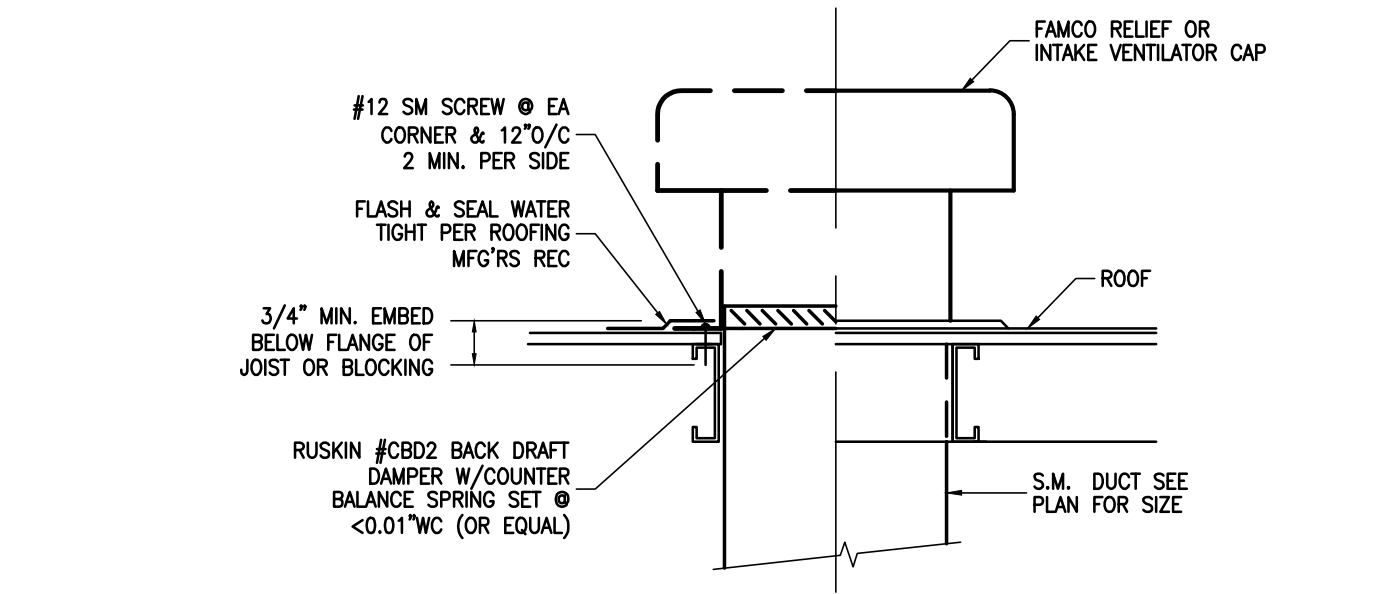
8 FLEX DUCT HANGERS - TYP. NTS



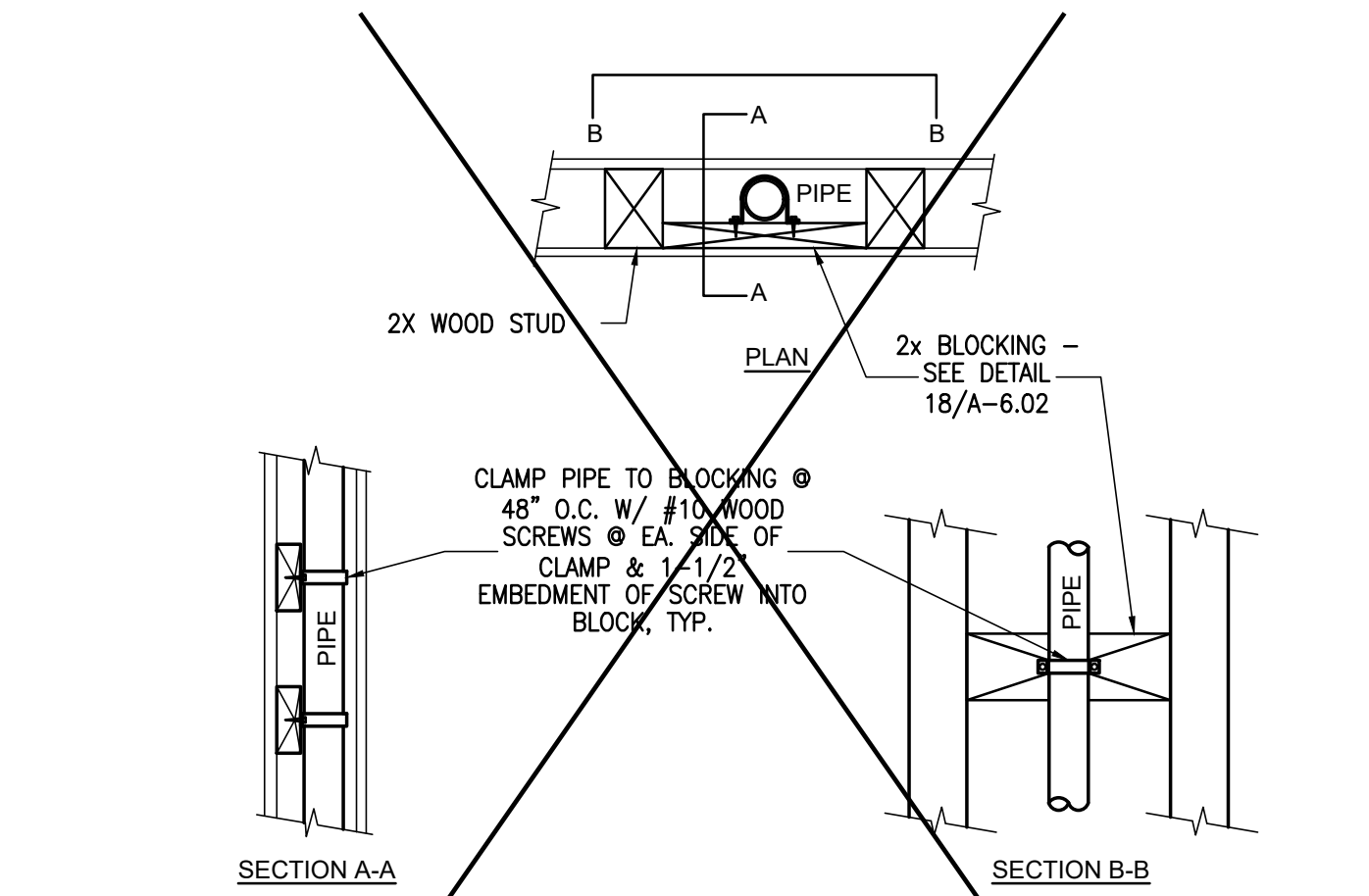
12 FAN-COIL VERT. MTG. NTS TYPICAL FOR: FC-1 & 2



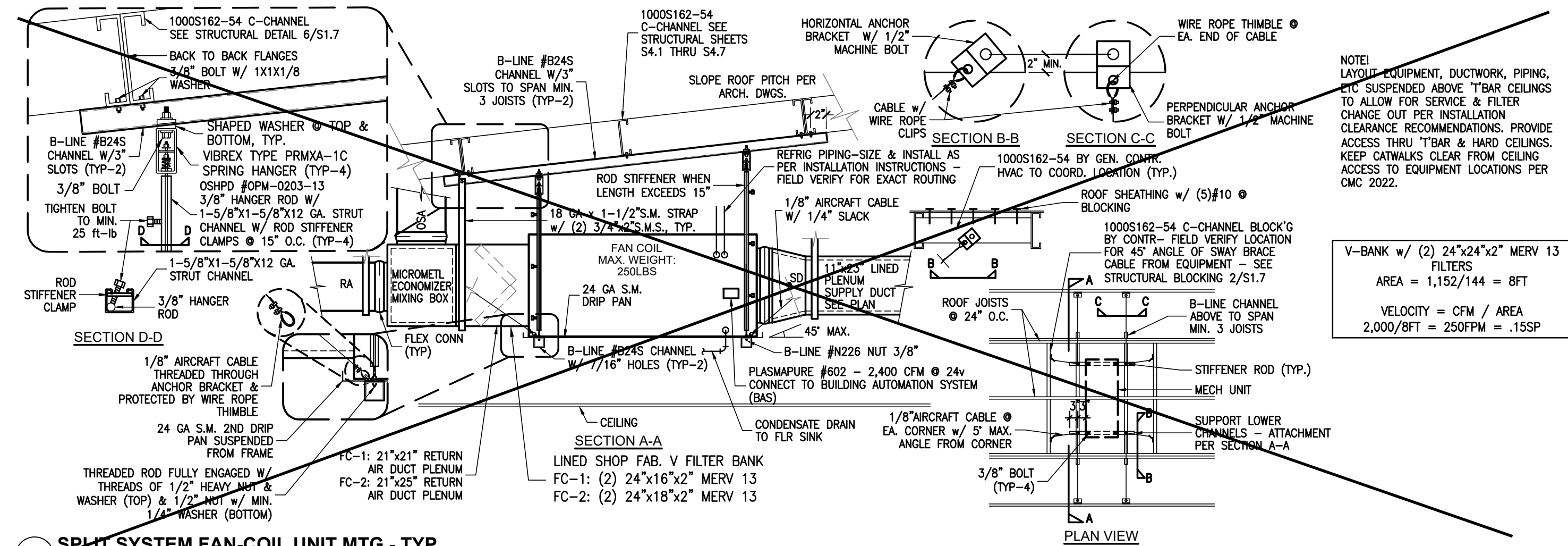
9 CLG MTD EXHAUST FAN MTG - TYP. NTS TYPICAL FOR: EF-1 THRU EF-5



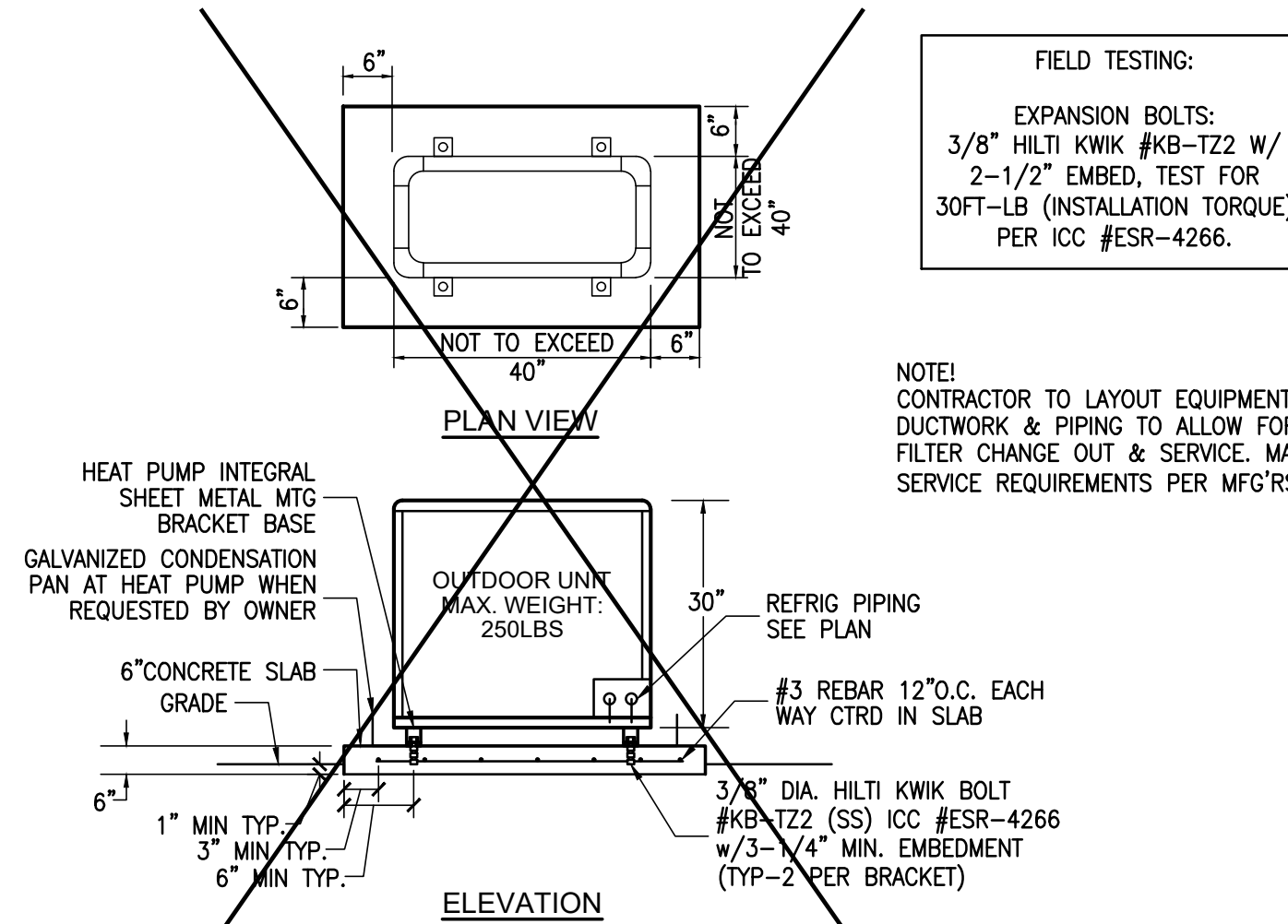
10 ROOF VENT CAP MTG. - TYP. NTS TYPICAL FOR: RV-1, RV-2 & IV-1



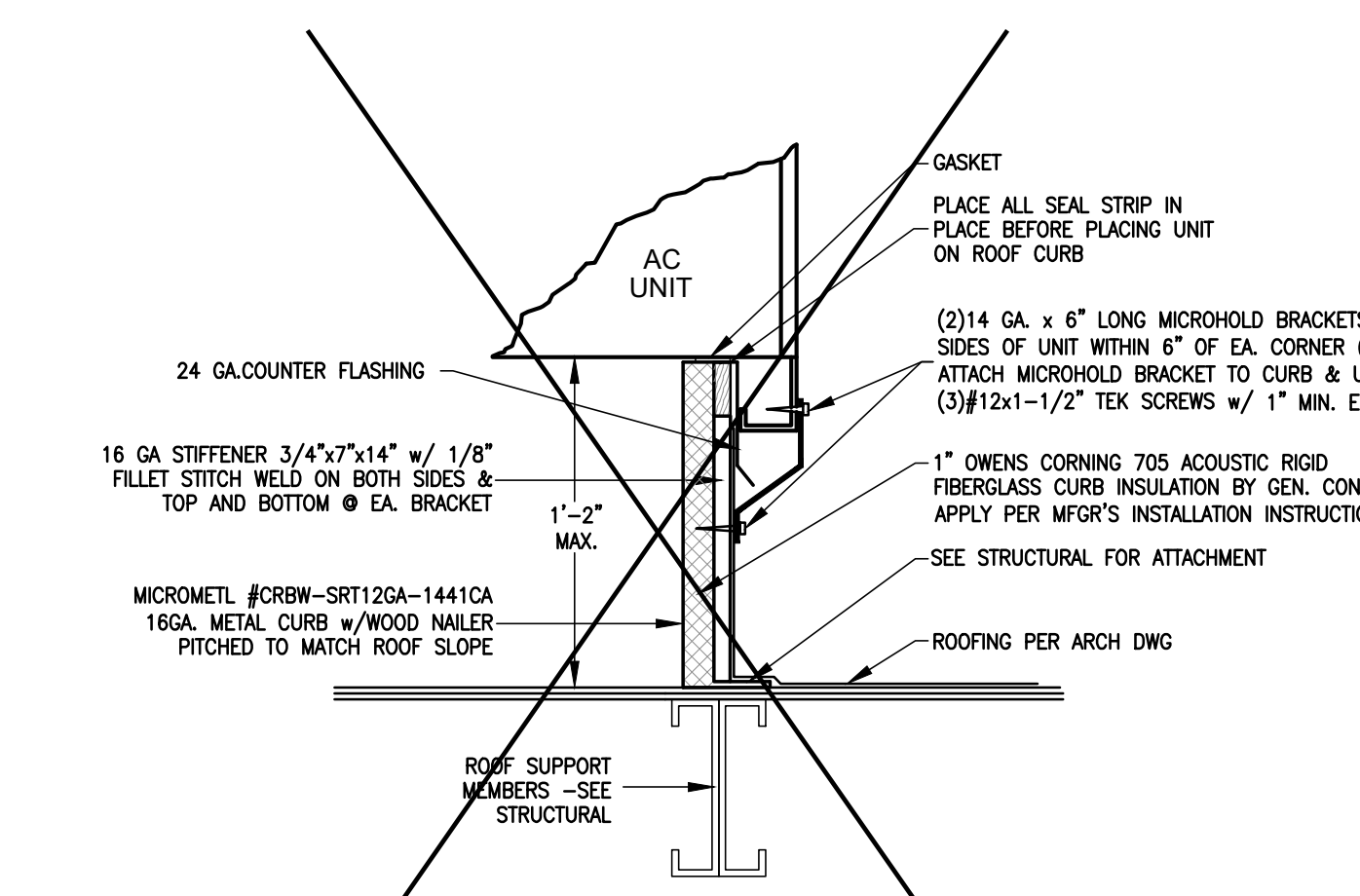
11 PIPE MOUNTING NTS



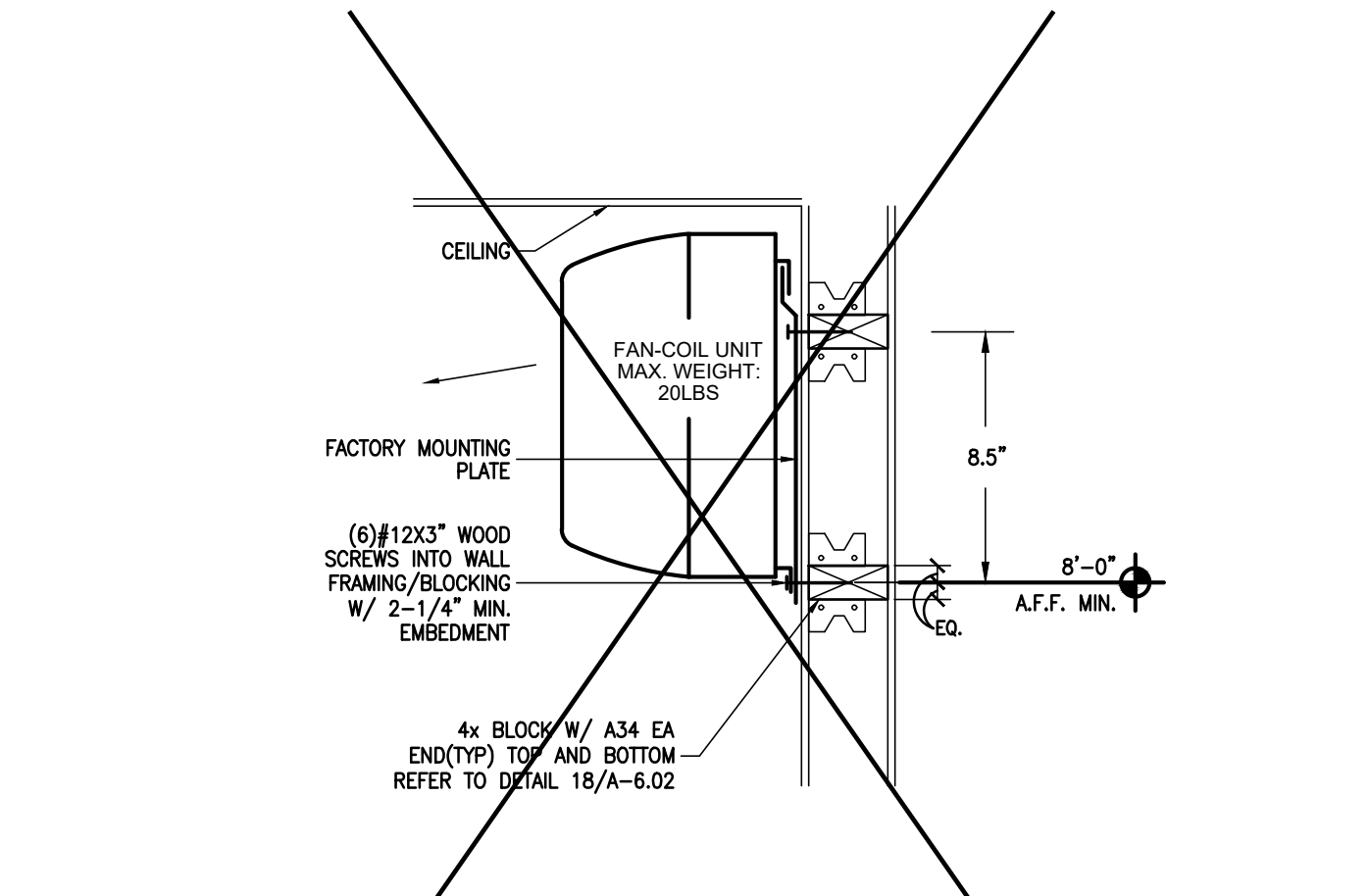
1 SPLIT SYSTEM FAN-COIL UNIT MTG - TYP. NTS



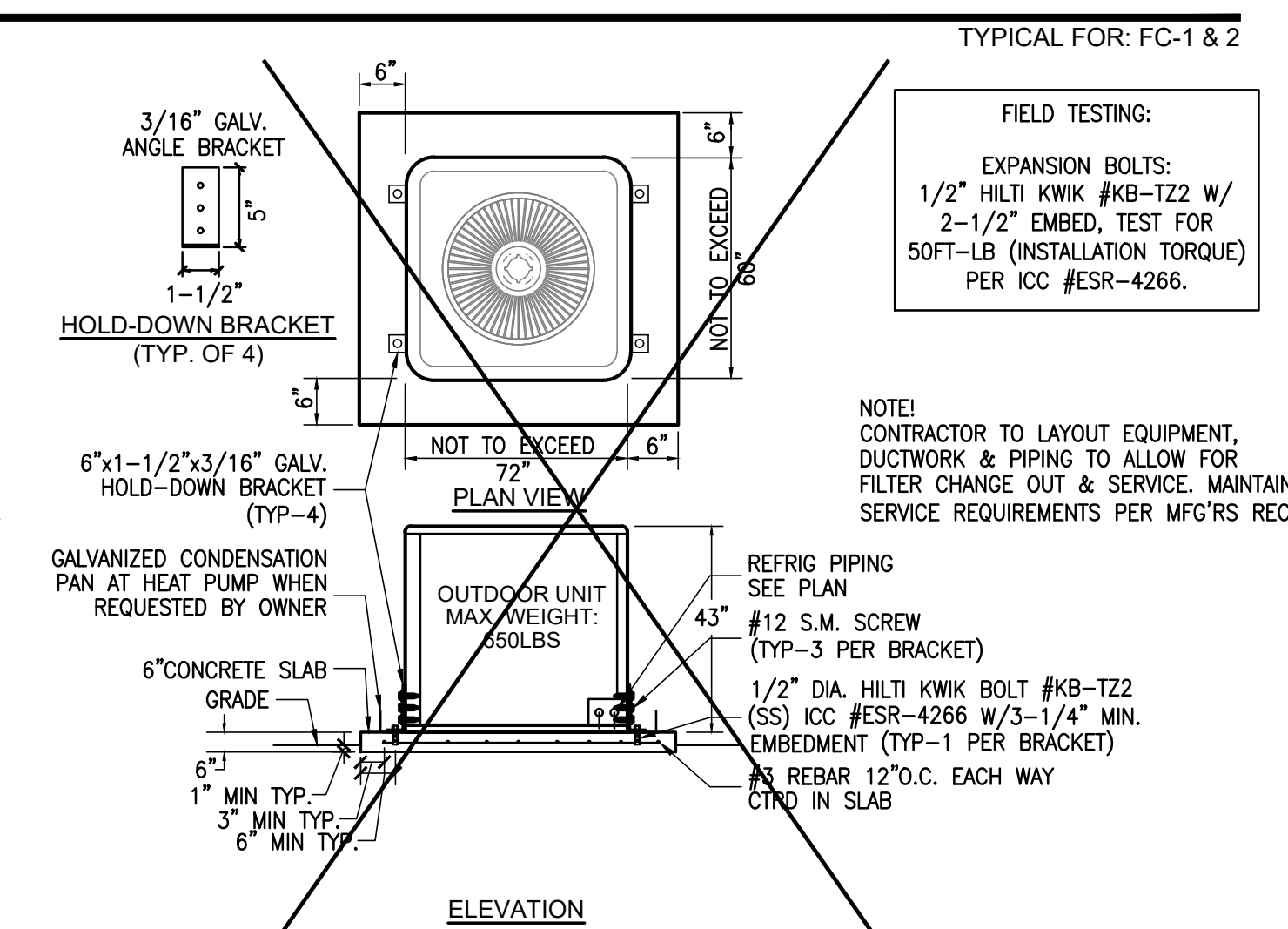
5 SPLIT SYSTEM HEAT PUMP UNIT (MINI)-OUTDOOR UNIT MTG - TYP. NTS TYPICAL FOR: MS-1



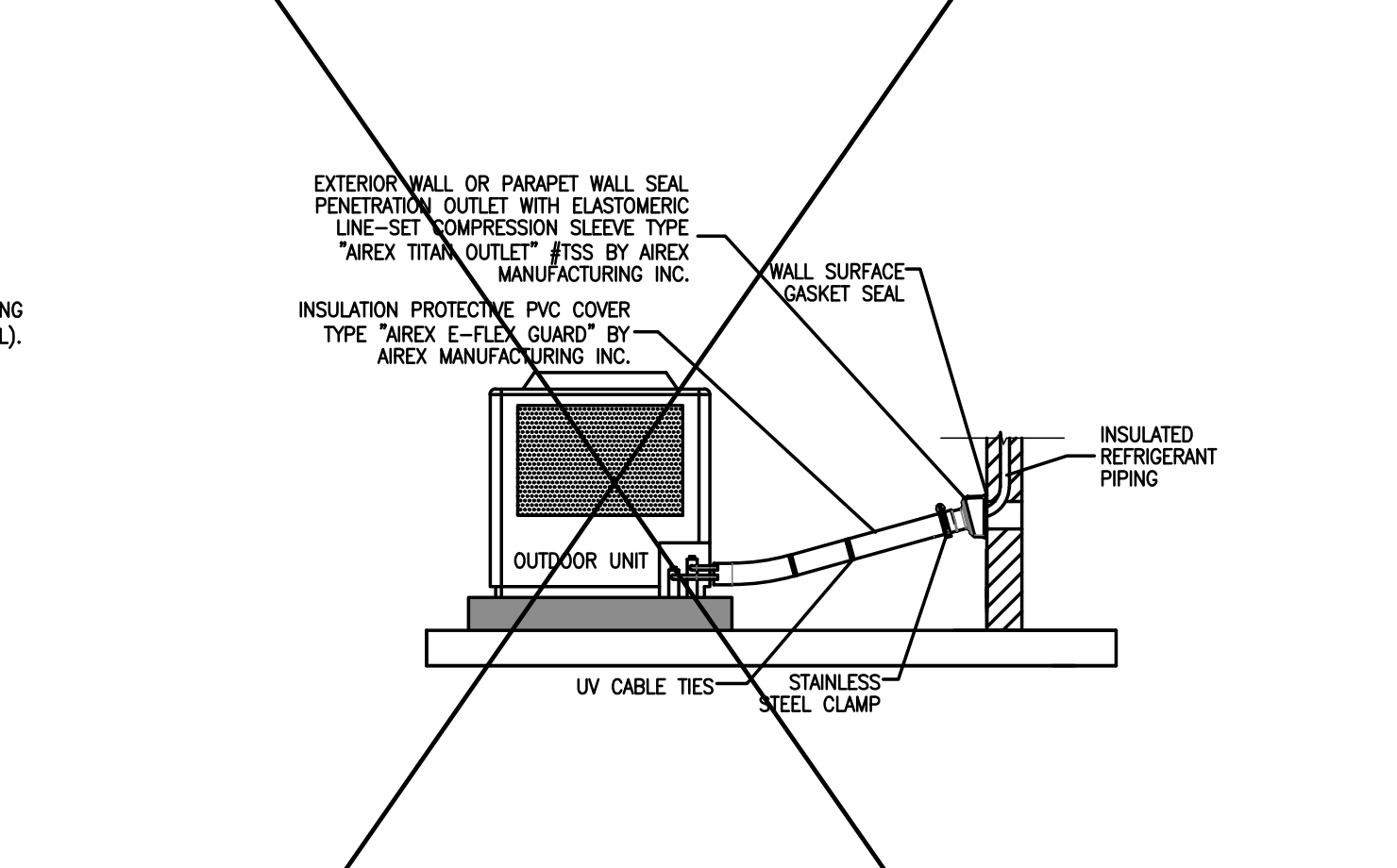
6 ROOFTOP PACKAGE (GAS/ELECTRIC OR HEAT PUMPT) UNIT MTG. - TYP. NTS TYPICAL FOR: AC-1, 2, 3 & 4



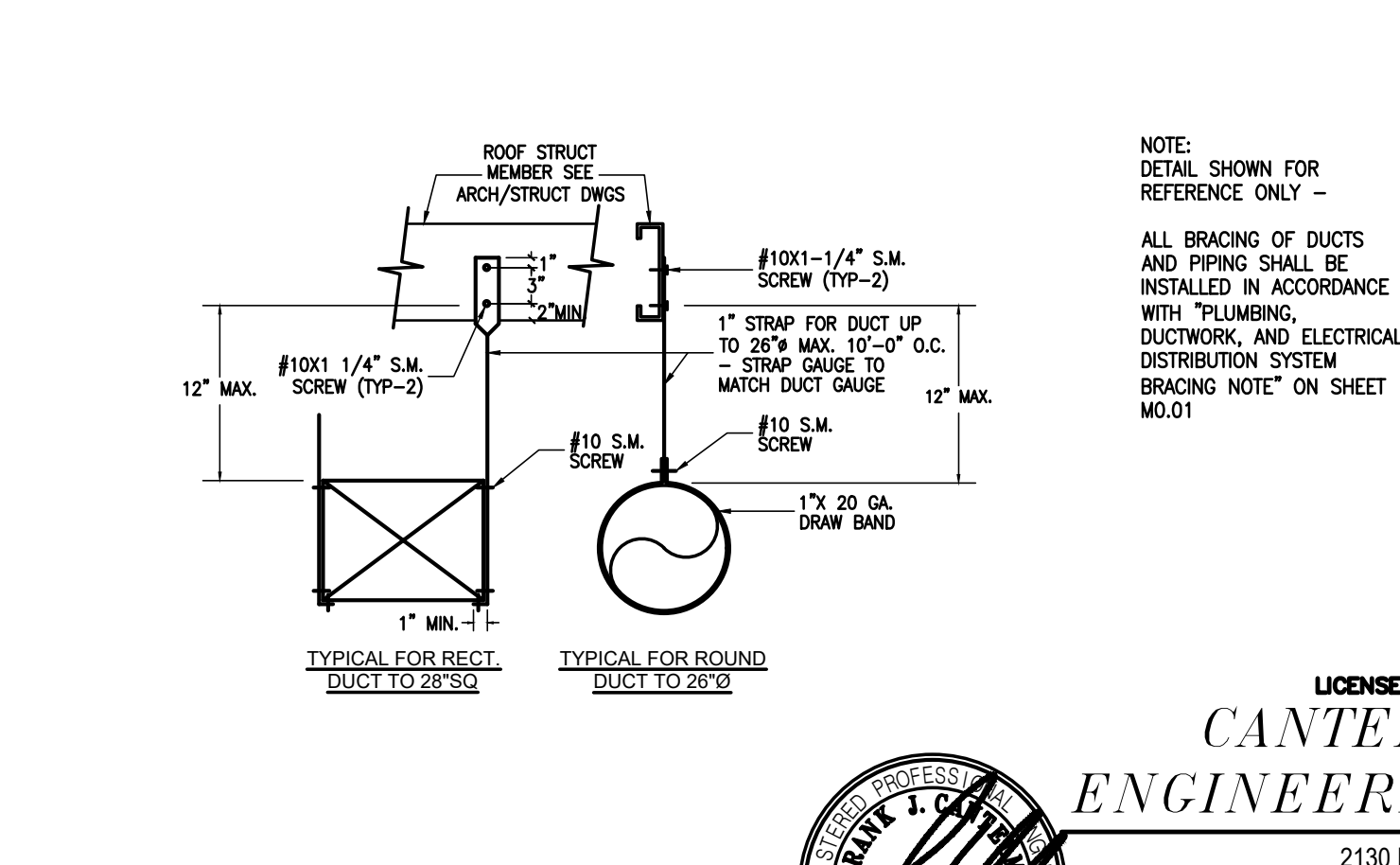
7 SPLIT SYSTEM HEAT PUMP UNIT (MINI)-INDOOR UNIT MTG - TYP. NTS TYPICAL FOR: MS-1



2 SPLIT SYSTEM HEAT PUMP UNIT MTG - TYP. NTS TYPICAL FOR: HP-1 & 2 / CU-1 & 2



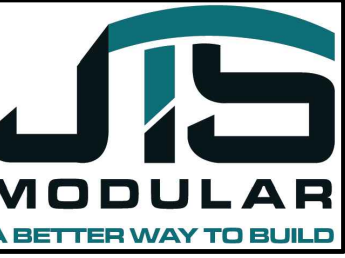
3 FLEX. CONNECTION @ BLDG. -TYP. NTS



4 DUCT HANGER - TYP. NTS

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MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
MECHANICAL DETAILS

DSA APP NO.

PROJECT NO.
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M5.01



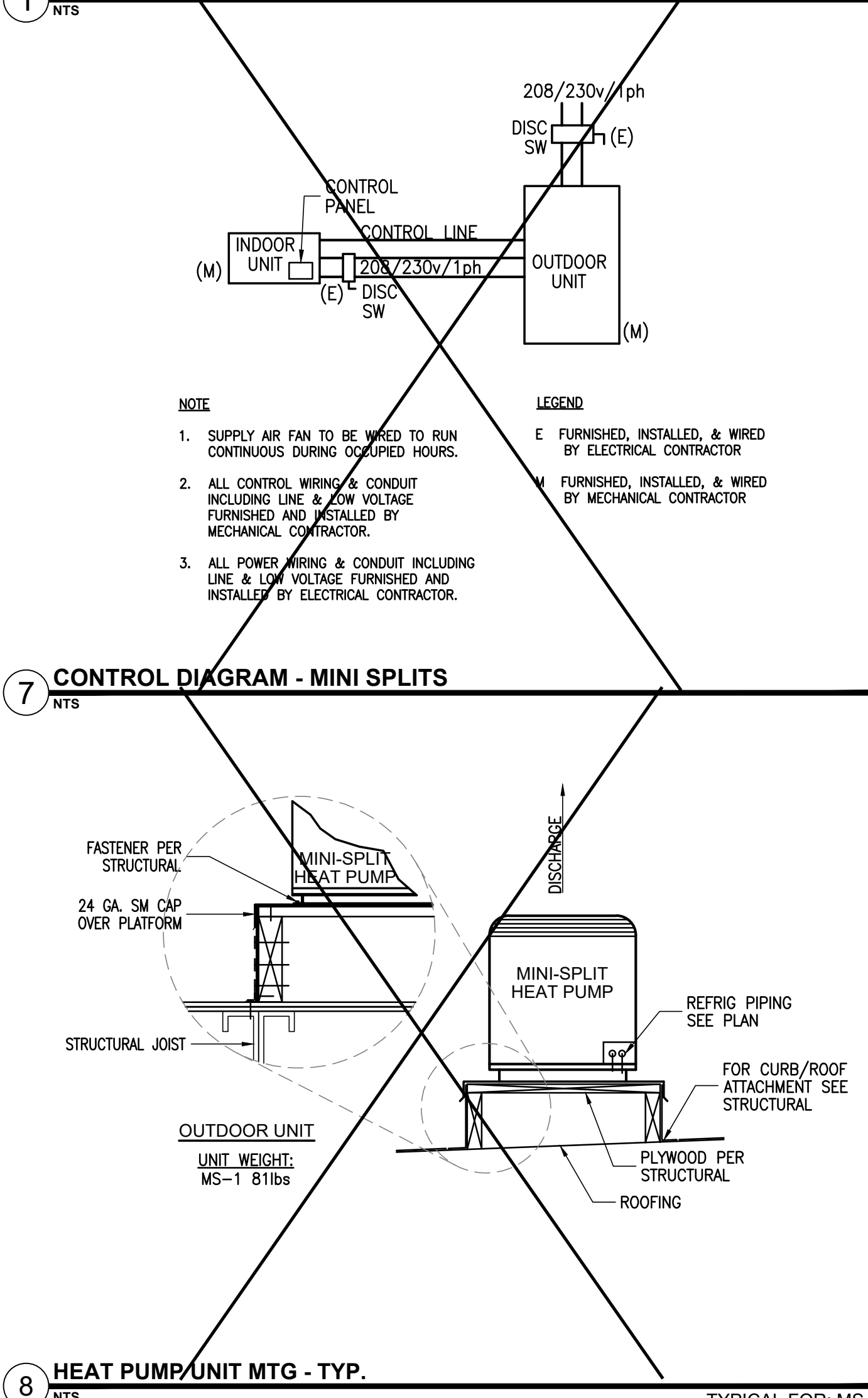
LICENSE #E18218
CANELMI
ENGINEERING
2130 F STREET
BAKERSFIELD, CA 93301
TEL: (661) 324-5252
FAX: (661) 324-8439
Canelmi@Canelmi.NET
9/12/23

file: S:\DWG\2023\JTS\PC SDG 40 C23-022\PC SDG-40 MECH C23-022_REV2.dwg date: 10/2/2023 9:18 AM

EQUIPMENT SCHEDULE	
SPLIT SYSTEM FAN-COIL UNITS	
DAY & NIGHT #DLFAAH48XAK MULTI-POSITION FAN COIL - 1470 CFM @ .8"ESP - EXPANSION VALVE FOR HEAT PUMP - 7.5 MCA @ 208/230/1 ϕ 15 AMP MOCP - LINED SHOP FAB. V FILTER BANK w/2" PLEATED MERV 13 FILTERS - MICROMETL #MB-GP20CB-D2EH CUBE ULTRA LOW LEAK MIXING BOX w/COMPLETE HONEYWELL ECONOMIZER JADE CONTROL SYSTEM #W7220 & CO2 SENSOR #C7232 OPER. WT. 200 LBS (OR EQUAL) SEE DETAILS 1/M5.01 & 12/M5.01	
DAY & NIGHT #DLFAAH48XAK MULTI-POSITION FAN COIL - 1800 CFM @ .8"ESP - EXPANSION VALVE FOR HEAT PUMP - 9.0 MCA @ 208/230/1 ϕ 15 AMP MOCP - LINED SHOP FAB. V FILTER BANK w/2" PLEATED MERV 13 FILTERS - MICROMETL #MB-GP20CB-D2EH CUBE ULTRA LOW LEAK MIXING BOX w/COMPLETE HONEYWELL ECONOMIZER JADE CONTROL SYSTEM #W7220 & CO2 SENSOR #C7232 OPER. WT. 220 LBS (OR EQUAL) SEE DETAILS 1/M5.01 & 12/M5.01	
SPLIT SYSTEM HEAT PUMP UNITS	
DAY & NIGHT #JLCURAH48AAK HEAT PUMP NOM. 4 TON OUTDOOR UNIT - 15.8 SEER2 8.8 EER2 AHRI RATED 47,000 BTUH COOLING CAPACITY - HTG CAPACITY 55,000 BTUH @ 47F, 9.4 HSPF2 LOW AMBIENT KIT - FACTORY SUPPLIED CONNECTIONS & ACCESSORIES FOR LONG REFRIG. LINE SET INSTALLED PER MFG'S REC - 42.0 MCA @ 208/230v/1 ϕ , 50 MOCP - 218 LBS OPERATE w/FC-1 (OR EQUAL) REFER TO ANCHORAGE DETAIL 2/M5.01	
DAY & NIGHT #JLCURAH60AAK HEAT PUMP NOM. 5 TON OUTDOOR UNIT - 14.7 SEER2 8.8 EER2 AHRI RATED 57,000 BTUH COOLING CAPACITY - HTG CAPACITY 60,000 BTUH @ 47F, 8.4 HSPF2 LOW AMBIENT KIT - FACTORY SUPPLIED CONNECTIONS & ACCESSORIES FOR LONG REFRIG. LINE SET INSTALLED PER MFG'S REC - 42.0 MCA @ 208/230v/1 ϕ , 60 MOCP - 240 LBS OPERATE w/FC-2 (OR EQUAL) REFER TO ANCHORAGE DETAIL 2/M5.01	
EXTERIOR WALL-MOUNT HEAT PUMP UNITS	
BARD #W48HY-B06ZNXKX HEAT PUMP - AHRI RATED COOLING 47,500 BTUH - EXTERIOR WALL MOUNTED - 11.0 EER - 1650 CFM @ .4"ESP - R-410A - HEATING CAPACITY 52,500 BTUH @ 47F 3.3 COP - 9 KW ELECTRIC HEAT KIT - FACTORY INSTALLED FULL FLOW DRY BULB ECONOMIZER w/ GRAVITY PRESSURE RELIEF FOR ROOM PRESSURIZATION RELIEF & CO2 SENSORS, COMPLETE JADE 0 TO 10v DC CONTROLS WITH FDD CAPABILITY #W7220, COMPLIES WITH CALIFORNIA TITLE 24 - 40 MCA @ 208/230v/3 ϕ , 60 MOCP - SINGLE POINT ELECTRICAL CONNECTION - 2" PLEATED MERV 13 FILTERS WALL CURB 560 LBS (OR EQUAL) REFER TO MTC DETAIL 1/M5.02	
BARD #W60HY-B09ZNXKX HEAT PUMP - AHRI RATED COOLING 54,500 BTUH - EXTERIOR WALL MOUNTED - 11.0 EER - 1820 CFM @ .4"ESP - R-410A - HEATING CAPACITY 52,500 BTUH @ 47F 3.3 COP - 9 KW ELECTRIC HEAT KIT - FACTORY INSTALLED FULL FLOW DRY BULB ECONOMIZER w/ GRAVITY PRESSURE RELIEF FOR ROOM PRESSURIZATION RELIEF, TEMP. & CO2 SENSORS, COMPLETE JADE 0 TO 10v DC CONTROLS WITH FDD CAPABILITY #W7220, COMPLIES WITH CALIFORNIA TITLE 24 - 56 MCA @ 208/230v/3 ϕ , 60 MOCP - SINGLE POINT ELECTRICAL CONNECTION - 2" PLEATED MERV 13 FILTERS WALL CURB 560 LBS (OR EQUAL) REFER TO MTC DETAIL 1/M5.02	
ROOFTOP PACKAGE HEAT PUMP UNITS	
DAY & NIGHT #RHW049HOFWQAB SINGLE-PACKAGE ROOFTOP HEAT PUMP UNIT - AHRI NET COOLING; 47.0 MBH, 2 STAGE - 16.0 SEER 2 - 12.0 EER 2 - R-410A - 1600 CFM @ .6"ESP - DIRECT DRIVE X VAN FAN - HIGH HEATING; 45.0 MBH - 7.1 HSPF 2 - 3.6 COP - 4.4 KW ELECTRIC HEAT 42 MCA @ 208/230v/3 ϕ 50 MOCP - SINGLE POINT ELEC CONNECTION - FACTORY TEMP. ULTRA LOW LEAK ECONOMIZER w/BAROMETRIC RELIEF, #W7220 CONTROLLER WITH FDD CAPABILITY, WALL MTD CO2 SENSOR #C7232, COMPLIES WITH CALIF TITLE 24 - LOW AMBIENT CONTROLLER - 2" PLEATED MERV 13 FILTERS - FACTORY SLOPED ROOF CURB 935 LBS (OR EQUAL) SEE DETAIL 6/M5.01	
DAY & NIGHT #RHW061HOFWQAB SINGLE-PACKAGE ROOFTOP HEAT PUMP UNIT - AHRI NET COOLING; 59.5 MBH, 2 STAGE - 16.0 SEER 2 - 12.0 EER 2 - R-410A - 2000 CFM @ .6"ESP - DIRECT DRIVE X VAN FAN - HIGH HEATING; 51.0 MBH - 7.5 HSPF 2 - 3.7 COP - 6.5 KW ELECTRIC HEAT 51 MCA @ 208/230v/3 ϕ 60 MOCP - SINGLE POINT ELEC CONNECTION - FACTORY ENTHALPY ULTRA LOW LEAK ECONOMIZER w/BAROMETRIC RELIEF, #W7220 CONTROLLER WITH FDD CAPABILITY, WALL MTD CO2 SENSOR #C7232, COMPLIES WITH CALIF TITLE 24 - LOW AMBIENT CONTROLLER - 2" PLEATED MERV 13 FILTERS - FACTORY SLOPED ROOF CURB - 940 LBS (OR EQUAL) SEE DETAIL 6/M5.01	
SPLIT SYSTEM HEAT PUMP UNITS (MINI)	
MITSUBISHI #MSZ-GLQ9NA-U2/MCZ-GLQ9NA-U2 WALL MOUNTED MINI-SPLIT HEAT PUMP SYSTEM NOM. 75 TON - 24.3 SEER2 15.4 EER2 - 10.9 HSPF2 COP @ 47-44 - INDOOR UNIT WALL MOUNTING BRACKET - CONDENSATE PUMP - REFRIG PIPING PER MFG'S INSTALLATION MANUAL - FURNISH FOR COMPLETE OPERATION - 9.0 MCA @ 208-230v/1 ϕ , 15 MOCP - WIRED REMOTE CONTROLLER - INDOOR UNIT 22 lbs, OUTDOOR UNIT 81 LBS (OR EQUAL)	
INTAKE VENTILATOR	
FAMCO #AV20 OUTSIDE AIR INTAKE VENTILATOR CAP 20" - 24 GA. GALV STEEL 1/8" SCREEN FLASHING TO MATCH METAL ROOFING PROFILE - SEAL WATER TIGHT PER METAL ROOFING MFG'S REC. - RUSKIN #CBD2 BACKDRAFT DAMPER w/COUNTER BALANCE SPRING - BIRD SCREEN WEIGHT: 19 LBS (OR EQUAL)	
EXHAUST FANS	
GREENHECK #SP-A700 CEILING MOUNTED EXHAUST FAN - 470 CFM @.38" SP BACKDRAFT DAMPER 3.2 AMPS @ 120v - SPEED CONTROLLER MTD. IN FAN - 34 LBS - INTERLOCK w/LIGHTING - ALT. COOK FANS (OR EQUAL)	
GREENHECK #SP-A390 CEILING MOUNTED EXHAUST FAN - 280 CFM @.38" SP BACKDRAFT DAMPER 1.34 AMPS @ 120v - SPEED CONTROLLER MTD. IN FAN - 24 LBS - INTERLOCK w/LIGHTING - ALT. COOK FANS (OR EQUAL)	
GREENHECK #SP-A390 CEILING MOUNTED EXHAUST FAN - 240 CFM @.38" SP BACKDRAFT DAMPER 1.34 AMPS @ 120v - SPEED CONTROLLER MTD. IN FAN - 24 LBS - INTERLOCK w/LIGHTING - ALT. COOK FANS (OR EQUAL)	
GREENHECK #SP-A250 CEILING MOUNTED EXHAUST FAN - 180 CFM @.38" SP BACKDRAFT DAMPER .77 AMPS @ 120v - SPEED CONTROLLER MTD. IN FAN - 24 LBS - INTERLOCK w/LIGHTING - ALT. COOK FANS (OR EQUAL)	
GREENHECK #SP-A190 CEILING MOUNTED EXHAUST FAN - 420 CFM @.38" SP BACKDRAFT DAMPER 1.3 AMPS @ 120v - SPEED CONTROLLER MTD. IN FAN - 17 LBS - INTERLOCK w/LIGHTING - ALT. COOK FANS (OR EQUAL)	
GREENHECK #SP-A110 CEILING MOUNTED EXHAUST FAN - 70 CFM @.25" SP BACKDRAFT DAMPER .58 AMPS @ 120v - SPEED CONTROLLER MTD. IN FAN - 17 LBS - INTERLOCK w/LIGHTING - ALT. COOK FANS (OR EQUAL)	
GREENHECK #SP-A90 CEILING MOUNTED EXHAUST FAN - 50 CFM @.25" SP BACKDRAFT DAMPER .34 AMPS @ 120v - SPEED CONTROLLER MTD. IN FAN - 12 LBS - INTERLOCK w/LIGHTING - ALT. COOK FANS (OR EQUAL)	
RELIEF VENTILATOR	
FAMCO #AV20 PRESSURE RELIEF VENTILATOR CAP 20" - 24 GA. GALV STEEL 1/8" SCREEN FLASHING TO MATCH METAL ROOFING PROFILE - SEAL WATER TIGHT PER METAL ROOFING MFG'S REC. - RUSKIN #CBD2 BACKDRAFT DAMPER w/COUNTER BALANCE SPRING - BIRD SCREEN WEIGHT: 19 LBS (OR EQUAL)	
FAMCO #JV12 EXHAUST RELIEF VENTILATOR CAP 12" - 26 GA. GALV STEEL - 1/8" SCREEN FLASHING TO MATCH METAL ROOFING PROFILE - SEAL WATER TIGHT PER METAL ROOFING MFG'S REC. - RUSKIN #CBD2 BACKDRAFT DAMPER w/COUNTER BALANCE SPRING - BIRD SCREEN WEIGHT: 9 LBS (OR EQUAL)	
FAMCO #JV12 EXHAUST RELIEF VENTILATOR CAP 8" - 26 GA. GALV STEEL - 1/8" SCREEN FLASHING TO MATCH METAL ROOFING PROFILE - SEAL WATER TIGHT PER METAL ROOFING MFG'S REC. - RUSKIN #CBD2 BACKDRAFT DAMPER w/COUNTER BALANCE SPRING - BIRD SCREEN WEIGHT: 7 LBS (OR EQUAL)	

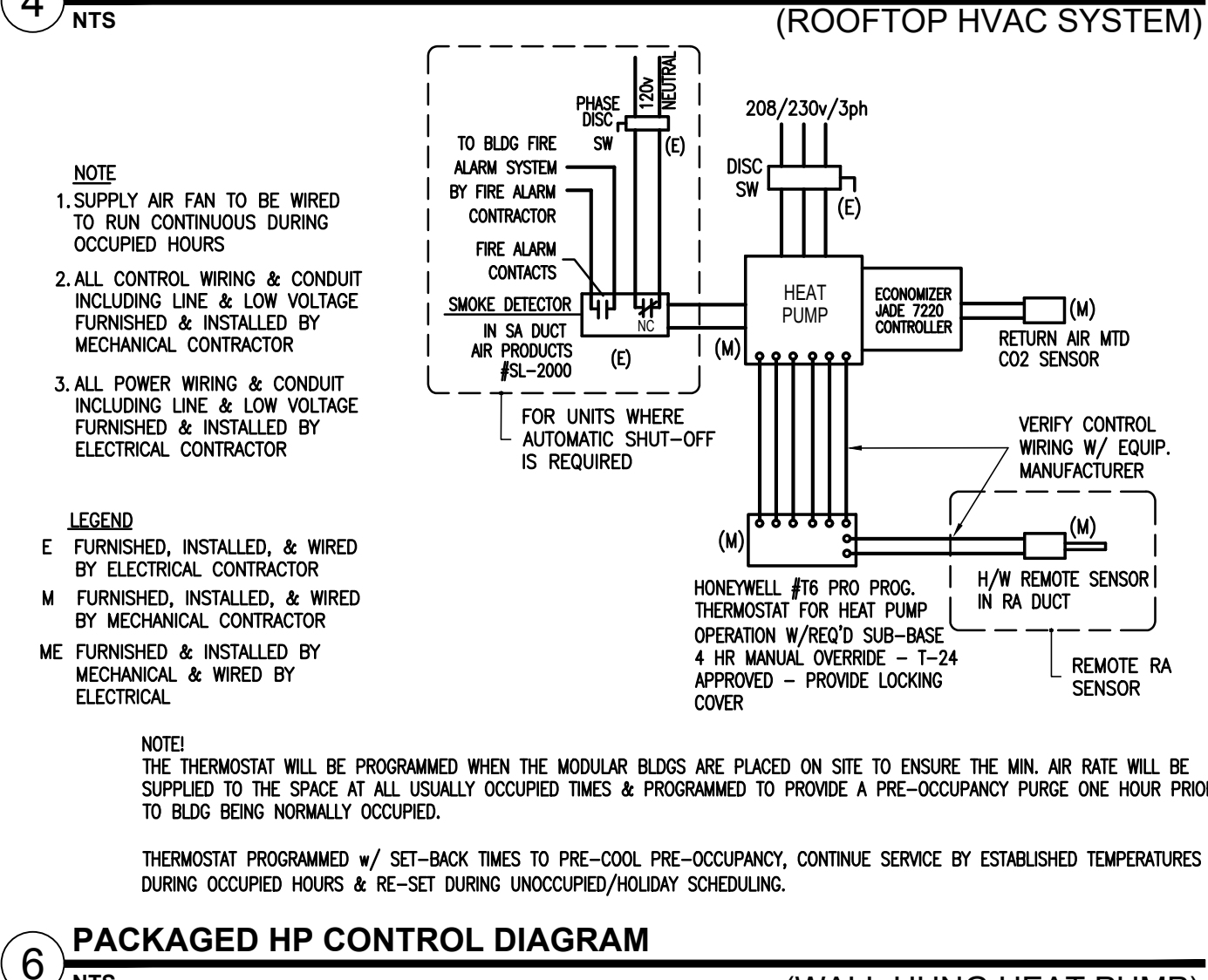
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1 EXTERIOR WALL-MOUNT HEAT PUMP UNIT MTG - TYP.



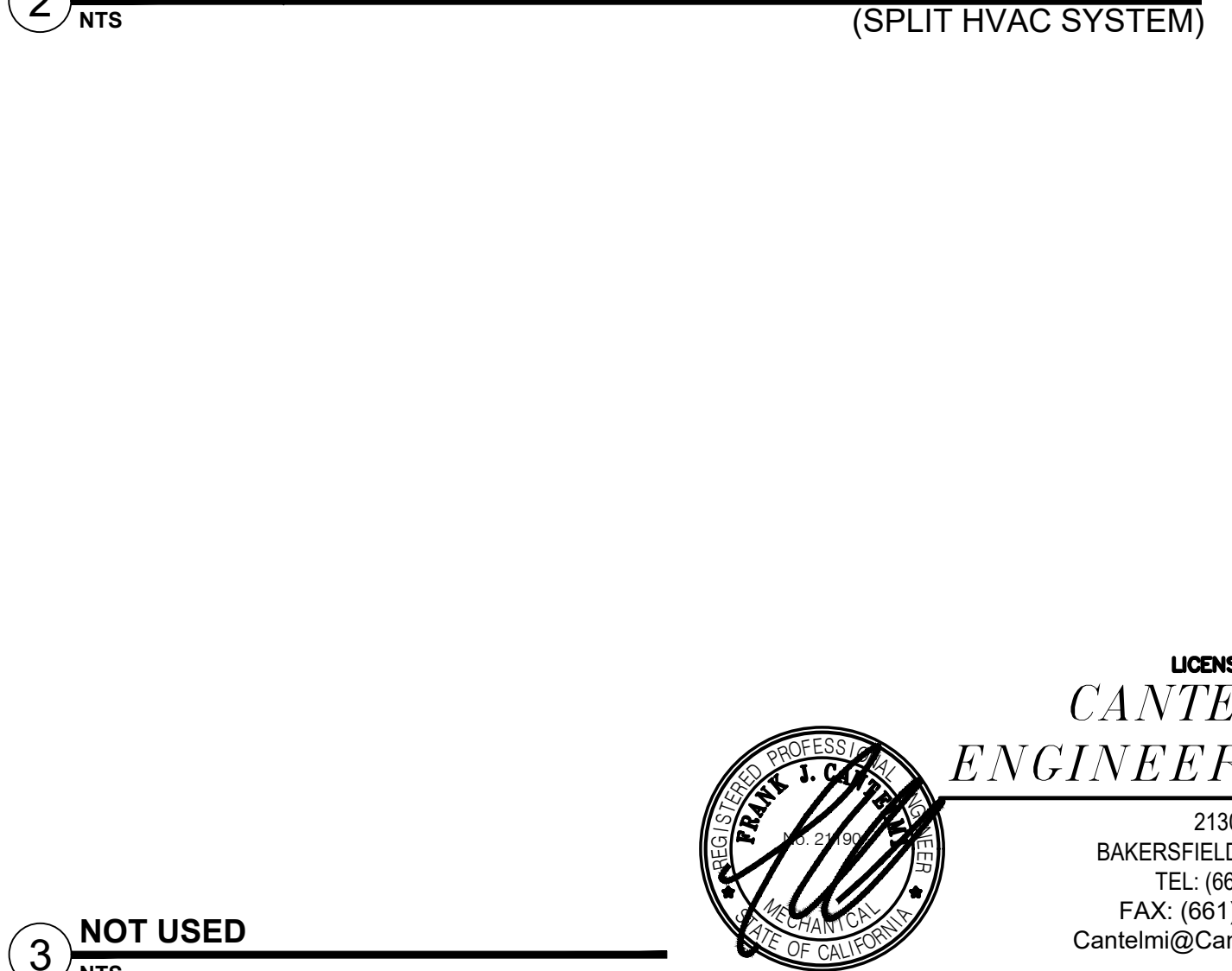
8 HEAT PUMP UNIT MTG - TYP.

4 PACKAGED HP CONTROL DIAGRAM



6 PACKAGED HP CONTROL DIAGRAM

2 SPLIT SYSTEM HP CONTROL DIAGRAM



3 NOT USED

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SS ☒ FLS ☒ ACS ☒ CG ☒
DATE: 10/10/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
DSA APPLICATION NUMBER
02-120983
A separate project application
for construction is required

MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
MECHANICAL SCHEDULE & DETAILS



LICENSE #E18218
CANTELM
ENGINEERING
2130 F STREET
BAKERSFIELD, CA 93301
TEL: (661) 324-5252
FAX: (661) 324-8439
Cantelmi@Cantelmi.NET
10/2/23

PROJECT NO.
06-0142
DRAWING
M5.02

SYMBOLS

LIGHT FIXTURES	POWER/COMM	CONDUIT/WIRE	MISCELLANEOUS
CEILING SURFACEMOUNT	SINGLE RECEPT	NEW	MOTOR
WALL SURFACEMOUNT	DUPLEX RECEPT	UNDERGROUND	THERMOSTAT +48" A.F.F. TO TOP OF UNIT
PENDANT MOUNT	SPLIT DUPLEX RECEPT	NEW POWER HOMERUN (3 HOTS & NEUT SHOWN)	CIRCUIT BREAKER
RECESSED DOWNLIGHT	DUPLEX-HALF SWITCHED	ISOLATED GROUND	FUSIBLE SWITCH
RECESSED WALLWASH	DOUBLE DUPLEX	ISOLATED GROUND	GROUND
RECESSED	SPECIAL CONFIGURATION	WIRE LINE-CONTINUES	PHASE
SURFACE	FLOORMOUNT 208V, 1ø RECEPT	CONDUIT STUB (W/MARKER)	CLOCK
STRIP UON	DUPLEX-FLOOR OUTLET	VERTICAL CONDUIT RUN	CLOCK/SPEAKER COMBINATION
TRACK LIGHT	GROUND FAULT CIRCUIT INTERRUPTER	CONDUIT SEAL	WALL MOUNTED CLOCK
DIRECTIONAL FLOOD	JUNCTION BOX	FLEXIBLE CONNECTION	PUSHBUTTON
EMERGENCY FIXTURE	SPECIAL SYSTEM JUNCTION BOX	LOW VOLTAGE	FLUSHMOUNT PANEL
POLE LIGHT	HDMI - J-BOX w/ 1" C. TO ATTIC SPACE	SURFACEMOUNT RACEWAY	SURFACEMOUNT PANEL
POLE LIGHT-DECORATIVE	DATA - J-BOX w/ 1" C. TO ATTIC SPACE	INDICATES LINE CONTINUES	SURFACEMOUNT PANEL
UPLIGHT-FLUSH IN GRADE	PHONE - J-BOX w/ 1" C. TO ATTIC SPACE	CORD W/PLUG	DAMPER MOTOR
BOLLARD	PHONE & DATA - J-BOX w/ 1" C. TO ATTIC SPACE		HUMIDISTAT
TANDEM-WIRED LAMPS	TV - J-BOX w/ 1" C. TO ATTIC SPACE		MAGNETIC CONTACTOR
UNDERCABINET LIGHT	SAFETY DISCONNECT		COMBINATION STARTER
WALL SURFACEMOUNT LINEAR TYPE	DROP CORD RECEPT		
PENDANT LINEAR	ABOVE-CLG MOUNT J-BOX		
RECESSED WALLMOUNT	TV OUTLET-FLOORMOUNT		
WALLPACK	TELEPHONE FLOOR OUTLET		
EMERGENCY WALLPACK	DATA FLOOR OUTLET		
EXIT LIGHT-WALL	WIRELESS ACCESS POINT IN CEILING		
EXIT LIGHT-CEILING (ARROW INDICATES DIRECTION)	MOUNT DEVICE ABOVE COUNTER PER ARCHITECTURAL REQUIREMENTS		
LETTER ADJACENT INDICATES FIXTURE TYPE	SPECIAL PURPOSE OUTDOOR RECEPTACLE - MOUNT AT SPECIFIED HEIGHT		
"E" LETTER ADJACENT INDICATES EMERGENCY FIXTURE TYPE			

ELECTRICAL ABBREVIATIONS

A AMPERE	EA EACH	KVA KILOVOLTAMPS	ph PHASE
AB AMP BREAKER	EB ELECTRONIC BALLAST	KW KILOWATT	PNL PANEL
ABND ABANDONED	EC ELECTRICAL CONTRACTOR	LPS LOW PRESSURE SODIUM	POC POINT OF CONNECTION
ABV ABOVE	EC-# EVAPORATIVE COOLER	LRA LOCKED ROTOR AMPS	-PP- POWER PRIMARY
AC ALTERNATING CURRENT	EF-# EXHAUST FAN	LS LIFE SAFETY BRANCH	-PS- POWER SECONDARY
AC-# AIR CONDITIONER	EL EVENING LIGHT	LT LIGHT	(R) RELOCATE(D)
ADJ ADJACENT	ELEC ELECTRICAL	LV LOW VOLTAGE	RECEPT RECEPTACLE
AF AMP FUSE, AMP FRAME	EM EMERG BATTERY BACKUP	MC MECHANICAL CONTRACTOR	REF REFRIGERATOR
AFF ABOVE FINISH FLOOR	EMB EMERGENCY BALLAST	MCA MINIMUM CKT AMPS	REQ'D REQUIRED
AFG ABOVE FINISH GRADE	EMERG EMERGENCY	MCB MAIN CIRCUIT BREAKER	RIA RATED LOAD AMPS
AC AMPERES INTERRUPTING CAPACITY	EOL END OF LINE	MCTB MAIN CATV TERMINAL BOARD	RM ROOM
AI ALUMINUM	EQUIP EQUIPMENT	MCTC MAIN CATV TERMINAL CABINET	RMC RIGID METAL CONDUIT
AS AMP SWITCH RATING	ES ENERGY SAVING	MECH MECHANICAL	RMV REMOVE
ATS AUTOMATIC TIME SWITCH	(EXN) (E) IN (N) LOCATION	MFR MANUFACTURER	RPLC REPLACE
ATS AUTOMATIC TRANSFER SWITCH	(EXR) (E) TO BE (R)	MFS MAIN FUSIBLE SWITCH	RS RAPID START
AV AUDIBLE/AUDIO VISUAL	EXT EXTERIOR	MH METAL HALIDE	SC SIGNAL CABINET
AWG AMERICAN WIRE GAGE	FL FLUORESCENT	MLO MAIN LUGS ONLY	SCC SHORT CKT CURRENT
BFG BELOW FINISH GRADE	F-# FUTURE	MOC MAXIMUM OCP	SFM STATE FIRE MARSHAL
BIL BASIC IMPULSE LEVEL	FACP FIRE ALARM CONTROL PANEL	MSB MAIN SWITCHBOARD	SHT SHEET
BLDG BUILDING	FAT FIRE ALARM TERMINAL	MT MOUNT	SL SUMLINE, SWITCH LEG
C CONDUIT	FAU FORCED AIR UNIT	MTS MANUAL TRANSFER SWITCH	SPEC SPECIFICATION
-C- CABINET	FBO FURNISHED BY OTHERS	MTTB MAIN TELEPHONE TERMINAL BOARD	SPST SINGLE POLE SINGLE THROW
CATV CABLE TELEVISION	FLA FAN COIL	MTTC MAIN TELEPHONE TERMINAL CABINET	SQ SQUARE
CB CIRCUIT BREAKER, CODE BLUE	FLR FLOOR	N NEUTRAL (GROUNDED CONDUCTOR)	STR'G STORAGE
CBC CA. BUILDING CODE	FLUOR FLUORESCENT	(N) NEW	SURF SURFACE
CEC CA. ELECTRICAL CODE	FS FUSIBLE SWITCH	N3R NEMA 3R	SVC SERVICE
CA. ENERGY COMMISSION	FNR FULL VOLTAGE NON-REVERSING	NC NORMALLY CLOSED	SW SWITCH
CF COMPACT FLUORESCENT	G GROUNDING CONDUCTOR	NEC NATIONAL ELECTRICAL CODE	T TRANSFORMER, TERMINAL
CFC CALIFORNIA FIRE CODE	GC GENERAL CONTRACTOR	NEMA NAT'L ELEC MANUFACTURER'S ASSOC	-T- TO BE REMOVED
CLG CEILING	GDCI GROUND FAULT CIRCUIT INTERRUPTER	NIC NOT IN CONTRACT	TB TIME CLOCK
CL CENTER LINE	GND GROUND	NL NIGHT LIGHT	TEL TELEPHONE
CKT CIRCUIT	GNS GALVANIZED RIGID STEEL	NO NORMALLY OPEN	TELECO TELEPHONE COMPANY
CKTR CONTRACTOR	GRS GANG WITH SWITCH	NPF NORMAL POWER FACTOR	TS TIME SWITCH
C.O. CONDUIT ONLY (W/PULLROPE)	H HEIGHT, HIGH	NTS NOT TO SCALE	TSO TIME SWITCH OVERRIDE
COND CONDUIT, CONDUCTOR	HACR HEATING, AC & REFRIG	OC ON CENTER	TSP TWISTED SHIELDED PAIR
CR CRITICAL BRANCH	HID HIGH INTENSITY DISCHARGE	OCP OVERCURRENT PROTECTION	TTB TELEPHONE TERMINAL BOARD
CSFM CALIFORNIA SFM	HOA HAND-OFF-AUTO	OD OUTSIDE DIAMETER	TTIC TELEPHONE TERMINAL CABINET
CT CURRENT TRANSFORMER	HP HORSEPOWER	OH OVERHEAD	TX TRANSFORMER
CU COPPER	HPS HIGH POWER FACTOR	OSA OFFICE OF THE STATE ARCHITECT	TYP TYPICAL
CU-# CONDENSING UNIT	IC INTERROOM	OSHPD OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT	TYP SIM TYPICAL SIMILAR
D DEPTH	ID IDENTIFICATION	OVLD OVERLOAD	UG UNDERGROUND
DC DIRECT CURRENT	IF INSIDE FROST	P POLE	UGPS UNDERGROUND PULL SECTION
DF DRINKING FOUNTAIN	IG ISOLATED GROUND	PA PUBLIC ADDRESS	UL UNDERWRITERS LABORATORIES
DIA DIAMETER	J-BOX JUNCTION BOX	PB PULLBOX	UN UNLESS OTHERWISE NOTED
DISC DISCONNECT		PC PULL CHAIN	USA USA
DIST DISTRIBUTION		PC PHOTOCELL	V VOLT
DPST DOUBLE POLE SINGLE THROW			VA VOLT AMPERES
DW DISHWASHER			VAC VOLT ALTERNATING CURRENT
EM EMERGENCY			VHO VERY HIGH OUTPUT
(E) EXISTING			WP WEATHER RESISTANT

GENERAL ELECTRICAL NOTES

GENERAL LIGHTING PLAN NOTES

- NIGHT LIGHT (NL) DESIGNATED LUMINAIRES IN INTERIOR LOCATIONS SHALL HAVE ONE BALLAST CONTINUOUSLY ENERGIZED. LUMINAIRES IN EXTERIOR LOCATIONS SHALL BE AUTOMATICALLY CONTROLLED TO BE ON FROM DUSK TO DAWN.
- LIGHTING FIXTURE LOCATIONS SHOWN ARE SCHEMATIC. REFER TO ARCHITECTURAL PLANS (REFLECTED CEILING, ELEVATIONS, ETC.) FOR EXACT LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
- REFER TO ARCHITECT'S REFLECTED CEILING PLAN(S) FOR CEILING HEIGHTS, TYPES, FINISHES, ETC. IN EACH AREA.
- CONFIRM LOCATION OF ALL DOORS SWINGS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN OF SWITCHES.
- PROVIDE UNSWITCHED HOT LEG OF ROOM LIGHTING BRANCH CIRCUIT TO EACH BATTERY POWERED EMERGENCY LIGHT AND EXIT SIGN FOR CONTINUOUS CHARGING.
- ALL EMERGENCY LIGHTING AND STANDBY POWER SYSTEMS SHALL BE COMPLIANCE WITH CBC CHAPTER 27. THE SYSTEM SHALL BE CAPABLE OF POWERING THE REQUIRED LOAD FOR A DURATION OF NOT LESS THAN 90 MINUTES.

GENERAL POWER PLAN NOTES

- FUSING: ALL FUSIBLE SAFETY DISCONNECT SWITCHES SHALL BE PROVIDED WITH DUAL-ELEMENT TIME DELAY TYPE FUSES SIZED AND RATED PER EQUIPMENT MANUFACTURERS' RECOMMENDATIONS. VERIFY WITH EQUIPMENT NAMEPLATE BEFORE INSTALLATION.
- INSTALL SEPARATE NEUTRALS FOR EACH BRANCH CIRCUIT SERVING ISOLATED GROUND RECEPTACLES.
- MOTOR OVERLOAD PROTECTION: WHERE REQUIRED BY NEC ARTICLE 430 PART C AND NOT SHOWN ON PLAN OR PROVIDED INTEGRAL WITH EQUIPMENT, PROVIDE AND INSTALL THERMAL OVERLOAD PROTECTION FOR ALL MOTORS.
- SPARE CONDUIT FOR RECESSED PANELS: PROVIDE (1) 3/4" SPARE CONDUIT STUB UP TO ACCESSIBLE ABOVE CEILING SPACE AND/OR ACCESSIBLE SPACE BELOW FOR EVERY (3) SPARE BREAKER SPACES AS INDICATED ON PANEL SCHEDULES.
- DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.
- ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.

GENERAL COMMUNICATION PLAN NOTES

- SIGNAL AND COMMUNICATIONS SYSTEMS RACEWAYS AND BOXES: PROVIDE AND INSTALL 4-11/16" SQUARE RECESSED JUNCTION BOX WITH 1-GANG RING AND 1" CONDUIT STUB TO ACCESSIBLE CEILING SPACE AT EACH WALL TELEPHONE (VOICE), TELEVISION AND DATA OUTLET LOCATION SHOWN ON THE PLANS UNLESS OTHERWISE NOTED. FOR EACH COMBINATION VOICE/DATA OUTLET, PROVIDE AND INSTALL 1" CONDUIT STUBS TO ACCESSIBLE CEILING SPACE.
- BEFORE CONSTRUCTION, COORDINATE AND VERIFY ALL DATA AND TELEPHONE LOCATIONS WITH OWNER OR ARCHITECT
- TELEPHONE WIRING: EACH TELEPHONE OUTLET LOCATION SHOWN ON THE PLANS SHALL HAVE A HOME-RUN TO THE TELEPHONE TERMINAL BOARD "TBS" TERMINATE AT OUTLET LOCATION WITH OWNER APPROVED JACK, VERIFY LOCATIONS WITH OWNER OR ARCHITECT PRIOR TO CONSTRUCTION.
- TELEVISION PREWIRE: EACH TELEVISION OUTLET SHOWN ON THE PLANS SHALL HAVE AN RG6 (WITH QUAD SHIELD) COAXIAL CABLE HOMERUN PREWIRED TO THE CAVY TERMINAL BOARD LABEL AND LEAVE ADEQUATE SLACK FOR UTILITY CONNECTION.
- VOICE/DATA WIRING: EACH VOICE/DATA OUTLET LOCATION SHOWN ON THE PLANS SHALL HAVE A HOMERUN TO THE TELEPHONE TERMINAL BOARD. TERMINATE AT OUTLET LOCATION WITH OWNER APPROVED JACK. VERIFY SYSTEM REQUIREMENTS WITH OWNER OR ARCHITECT PRIOR TO CONSTRUCTION.
- DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.
- ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.

ROOF PLAN NOTES

- ALL EQUIPMENT SHOWN ABOVE ROOF IS NEMA 3R.
- VERIFY EXACT EQUIPMENT LOCATIONS AND POINTS OF CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN
- CONDUIT SHOWN IS ROUTED IN CEILING SPACE BELOW ROOF DECK
- NO ROOF MOUNT CONDUIT IS ALLOWED UNLESS OTHERWISE NOTED
- FUSE DISCONNECT SWITCHES PER EQUIPMENT NAMEPLATE RATING
- ALL ROOF PENETRATIONS SHALL BE MADE WITH ROOF JACKS, SEAL ALL PENETRATIONS PER THE WATER PROOF MEMBRANE MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES

- ALL CODE COMPLIANCE WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:
 - CALIFORNIA CODE OF REGULATIONS TITLE 24, 2022 CALIFORNIA ELECTRICAL CODE, 2020 NEC, NFPA, 2022 CALIFORNIA BUILDING CODE, AMERICANS WITH DISABILITIES ACT (ADA) AND OTHER LOCAL AMENDMENTS AS APPLICABLE.
 - UPON SITE PLACEMENT THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY MODULAR BUILDING MANUFACTURER OR GENERAL CONTRACTOR TO THE OWNER.
 - EQUIPMENT OR MATERIALS MAY NOT VARY FROM THE APPROVED PLANS.
- SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORK PERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.
- FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRE-STOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
- MOUNTING HEIGHTS IN INCHES ABOVE FINISH FLOOR SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
 - FROM BOTTOM OF BOX +15" MIN. & FROM TOP OF BOX 48" MAX.: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS
 - FROM TOP OF BOX 44" MAX. OVER OBSTRUCTIONS AFF: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS
 - FROM TOP OF BOX +48" MAX. AFF: LIGHT SWITCHES
 - FROM TOP OF BOX +48" AFF: T-STATS
 - FROM TOGGLE +48" MAX. AFF: FIRE ALARM MANUAL PULL STATIONS
 - FROM THE LOWER OF +80" AFF OR 6" BELOW CEILING: FIRE ALARM
 - VISUALS & AUDIBLE DEVICES UNLESS MOUNTED ON CEILING
- BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN.
- LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES)

MECHANICAL SYSTEMS

- MECHANICAL UNIT CONDUITS: TO PREVENT DAMAGE DUE TO VIBRATION, BOTH POWER AND CONTROL WIRING CONDUITS FEEDING EXTERIOR MECHANICAL UNITS SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR WITH LIQUID TIGHT FLEXIBLE TYPE AT FINAL CONNECTION
- T-STAT J-BOXES: PROVIDE AND INSTALL 4" SQUARE JUNCTION BOX WITH 1-GANG RING AND 1/2" CONDUIT TO ACCESSIBLE CEILING SPACE ABOVE AT EACH THERMOSTAT LOCATION
- EXHAUST FANS SHALL BE PROVIDED & INSTALLED BY MECHANICAL CONTRACTOR WITH WIRING CONNECTIONS MADE BY ELECTRICAL CONTRACTOR
- MECHANICAL EQUIPMENT CONTROLS: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE WIRE AND CONNECTIONS (BELOW 120 VOLT) TO AND FROM ALL MECHANICAL CONTROL DEVICES. ALL LOW VOLTAGE CONTROL WIRE SHALL BE IN CONDUIT, UNLESS OTHERWISE NOTED.
- PULL ROPES: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER IF REQUIRED BY SERVING UTILITY COMPANY. ANY NEW OR EXISTING COMMUNICATION OR SIGNAL RACEWAY ROUTED BETWEEN BUILDINGS, SIGNAL CABINETS, AND/OR SIGNAL CLOSETS WITH FUTURE CAPACITY SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AS WELL AS THE CALLED FOR CABLE
- ELECTRICAL SWITCHES: WHERE A REACH IS UNOBSTRUCTED, CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED 48 INCHES MAXIMUM (44 INCHES MAXIMUM WHERE A REACH IS OBSTRUCTED), MEASURED TO THE TOP OF THE OUTLET BOX; AND 15 INCHES MINIMUM, MEASURED TO THE BOTTOM OF THE OUTLET BOX, ABOVE THE FINISH FLOOR OR GROUND.
- ELECTRICAL RECEPTACLE OUTLETS: WHERE A REACH IS UNOBSTRUCTED, ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED 48 INCHES MAXIMUM (44 INCHES MAXIMUM WHERE A REACH IS OBSTRUCTED), MEASURED TO THE TOP OF THE OUTLET BOX; AND 15 INCHES MINIMUM, MEASURED TO THE BOTTOM OF THE OUTLET BOX, ABOVE THE FINISH FLOOR OR GROUND.

ACCEPTANCE TESTING NOTES

ACCEPTANCE TESTS SHALL BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TESTER AND TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING MUST BE COMPLETED AND TEST REPORTS MUST BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.

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 2022 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 FLEX 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:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE 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 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 2022 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 (EG. OSHPOD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO 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 THE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (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 OSHPOD PRE-APPROVED (OPM #) # _____

TITLE 24 CODES

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) (PART 1, TITLE 24 CCR)

2022 CALIFORNIA BUILDING CODE (CBC) (PART 2, TITLE 24 CCR)

(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE (CEC) (PART 3, TITLE 24 CCR)

(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24 CCR)

(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24 CCR)

(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ENERGY CODE (CEC) (PART 6, TITLE 24 CCR)

2022 CALIFORNIA FIRE CODE (CFC) (PART 9, TITLE 24 CCR)

(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA EXISTING BUILDING CODE (CEBC) (PART 10, TITLE 24 CCR)

(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11, TITLE 24 CCR)

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

2019 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS.

2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24 CCR)

NFPA 13 - 2022 EDITION

NFPA 14 - 2019 EDITION

NFPA 17 - 2021 EDITION

NFPA 17A - 2021 EDITION

NFPA 20 - 2019 EDITION

NFPA 22 - 2018 EDITION

NFPA 24 - 2019 EDITION

NFPA 72 - 2022 EDITION

NFPA 80 - 2019 EDITION

NFPA 2001 - 2018 EDITION

UL 300 - 2005 EDITION (R2010)

UL 464 - 2003 EDITION

UL 521 - 1999 EDITION

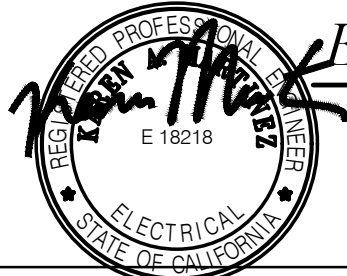
UL 1971 - 2002 EDITION

ICC 300 - 2017 EDITION

REFERENCED CODE SECTIONS FOR APPLICABLE STANDARDS

2022 CBC, CHAPTER 35

2022 CFC, CHAPTER 80



LICENSE #E18218

CANTELMI ENGINEERING

2130 F STREET
BAKERSFIELD, CA 93301
TEL: (661) 324-5252
FAX: (661) 324-8439
Cantelmi@Cantelmi.NET
9/12/23

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124742 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 04/10/2025

APPROVALS
FILE # APPLICATION #



COMMERCIAL
INSTITUTIONAL
AND
RESIDENTIAL
MODULAR
BUILDINGS
DESIGN & PLANNING
7001 Mc Divitt Dr.
Bakersfield, CA 93313
Office: (661) 835-9270
Fax: (661) 847-1007
www.jtsmodular.com

STRUCTURAL ENGINEER OF RECORD
ORION
Structural Engineering, Inc.
11305 Rancho Bernard RD., Suite 121
San Diego, CA 92127
PHONE: (658) 878-1074
FAX: (658) 878 1975



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120983 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CG ☒
DATE: 10/10/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
DSA APPLICATION NUMBER
02-120983
A separate project application
for construction is required

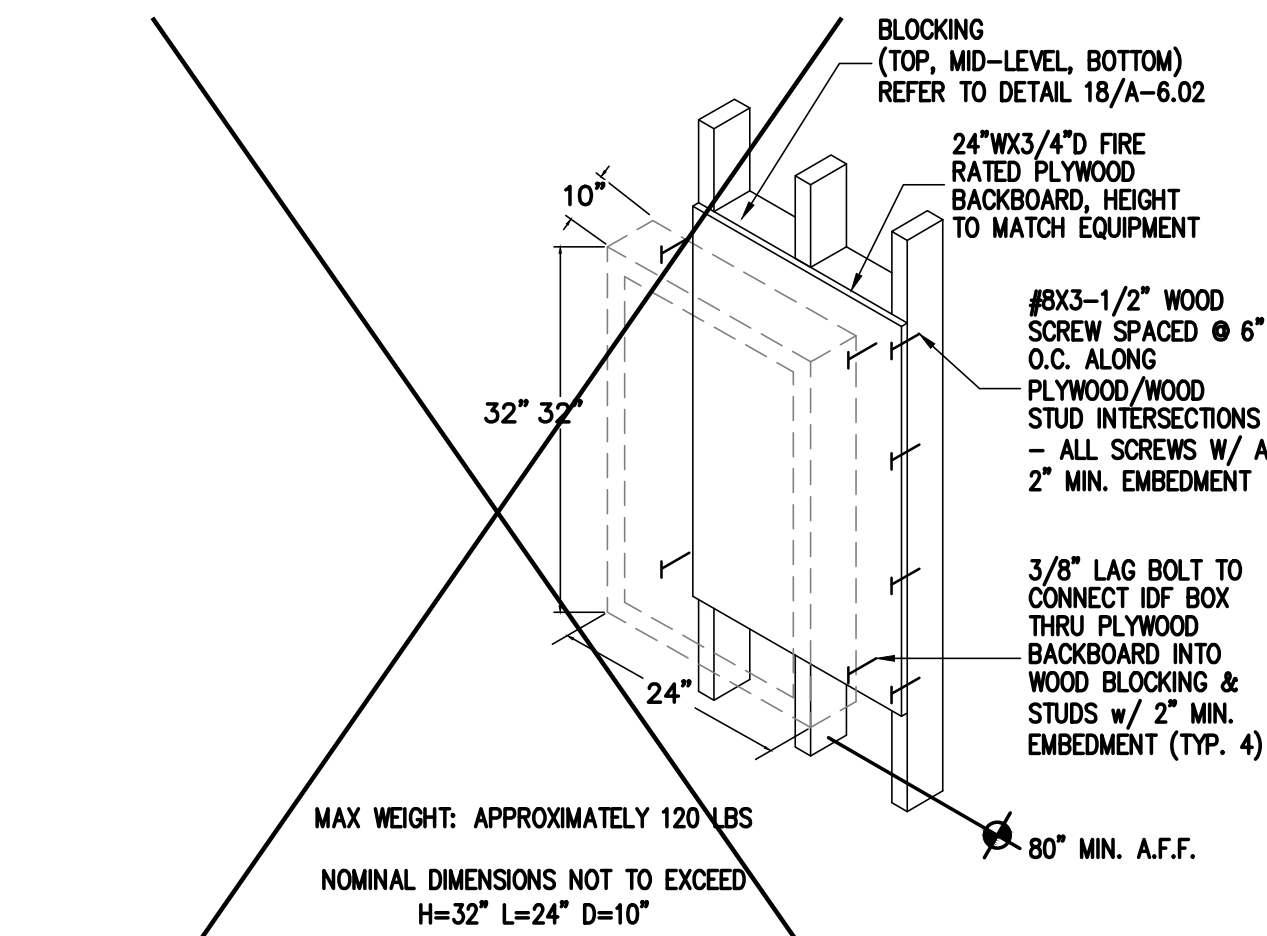
MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
ELECTRICAL NOTES
DRAWING TITLE

DSA APP NO.
PROJECT NO.
06-0142
DRAWING
E0.01

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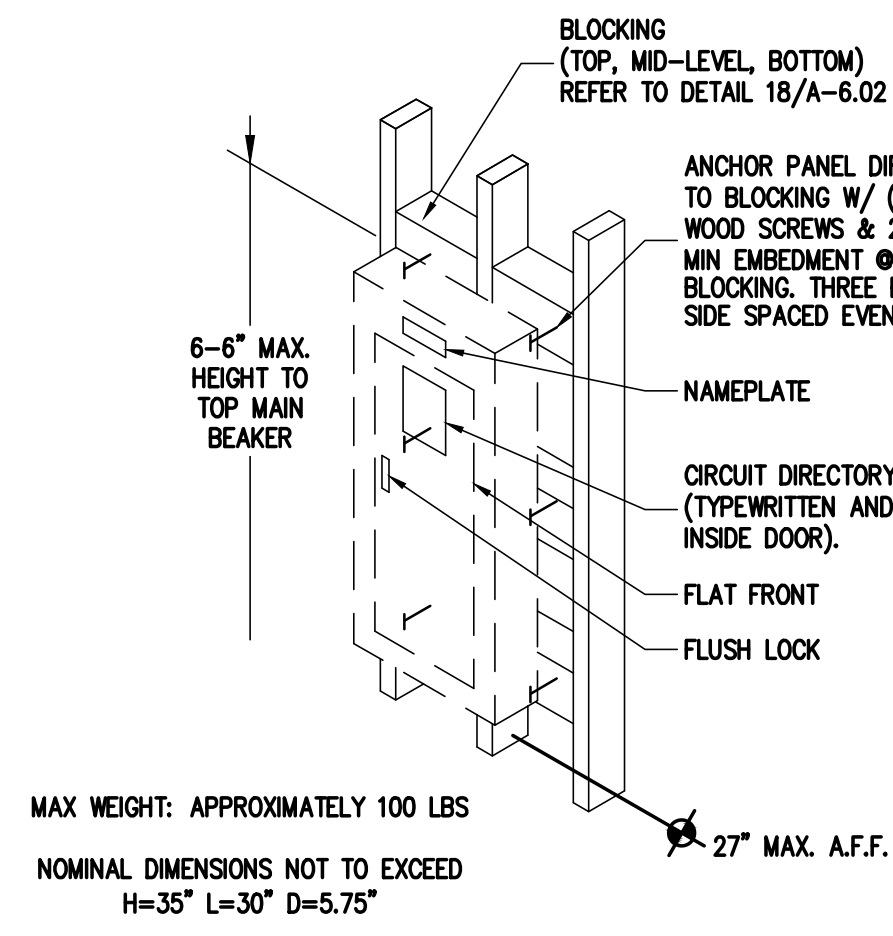
13 IDF SURFACE MOUNTING DETAIL

NTS



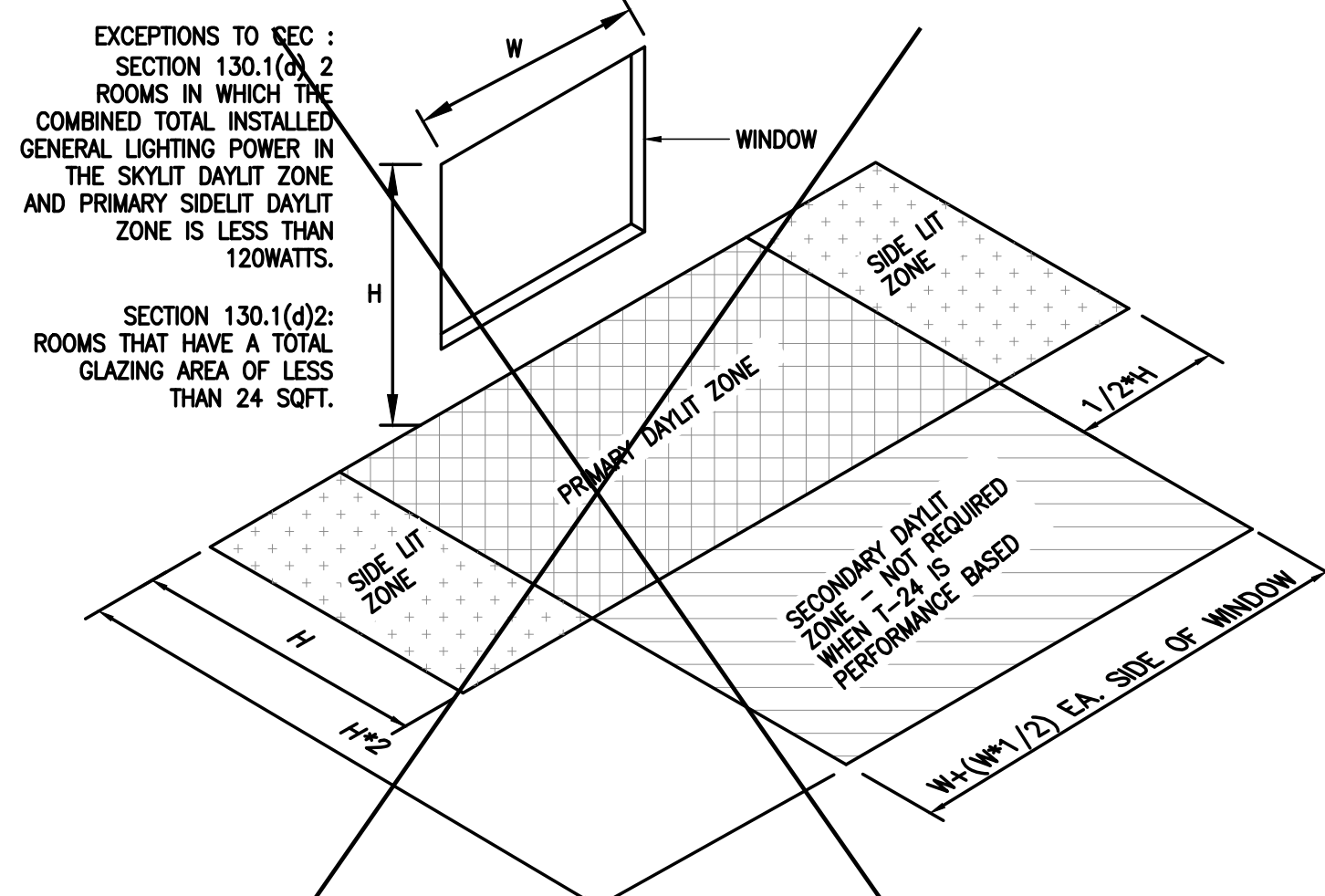
9 PANEL MTG - SURFACE

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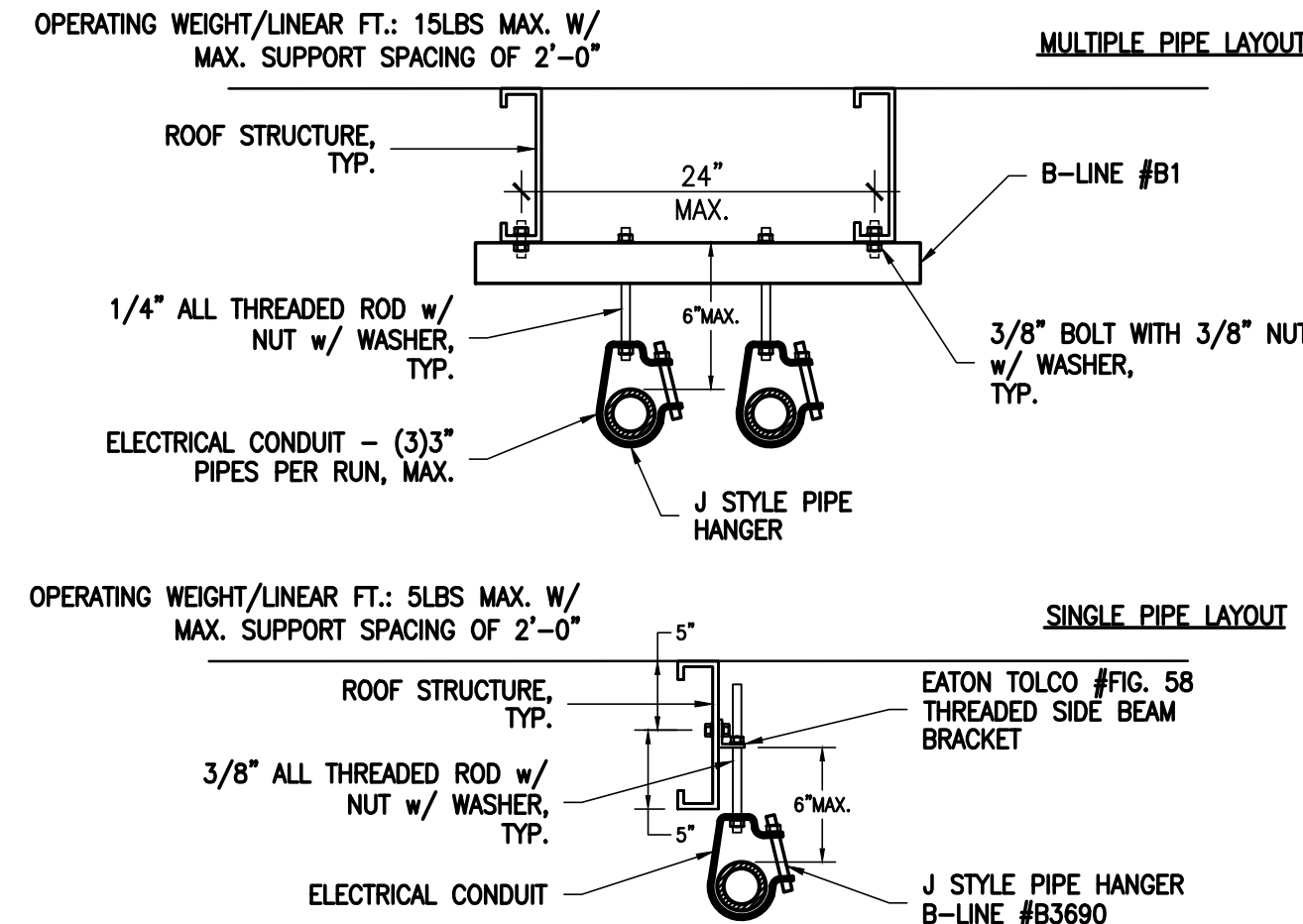
5 TITLE 24 CONTROLS DIAGRAM

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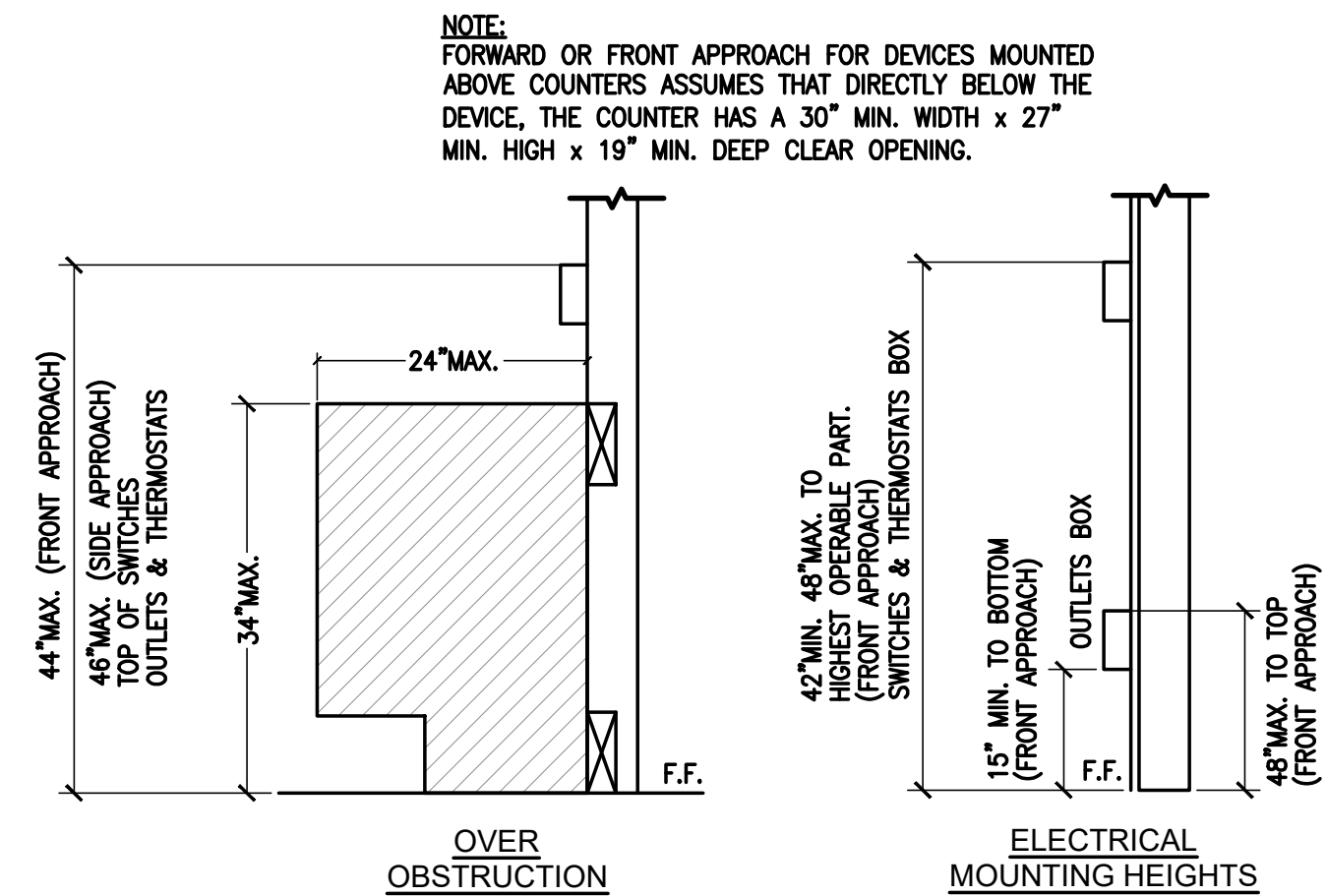
6 AUTOMATIC DAYLIGHTING CONTROLS

NTS



7 PIPE HANGER/SUPPORT

NTS

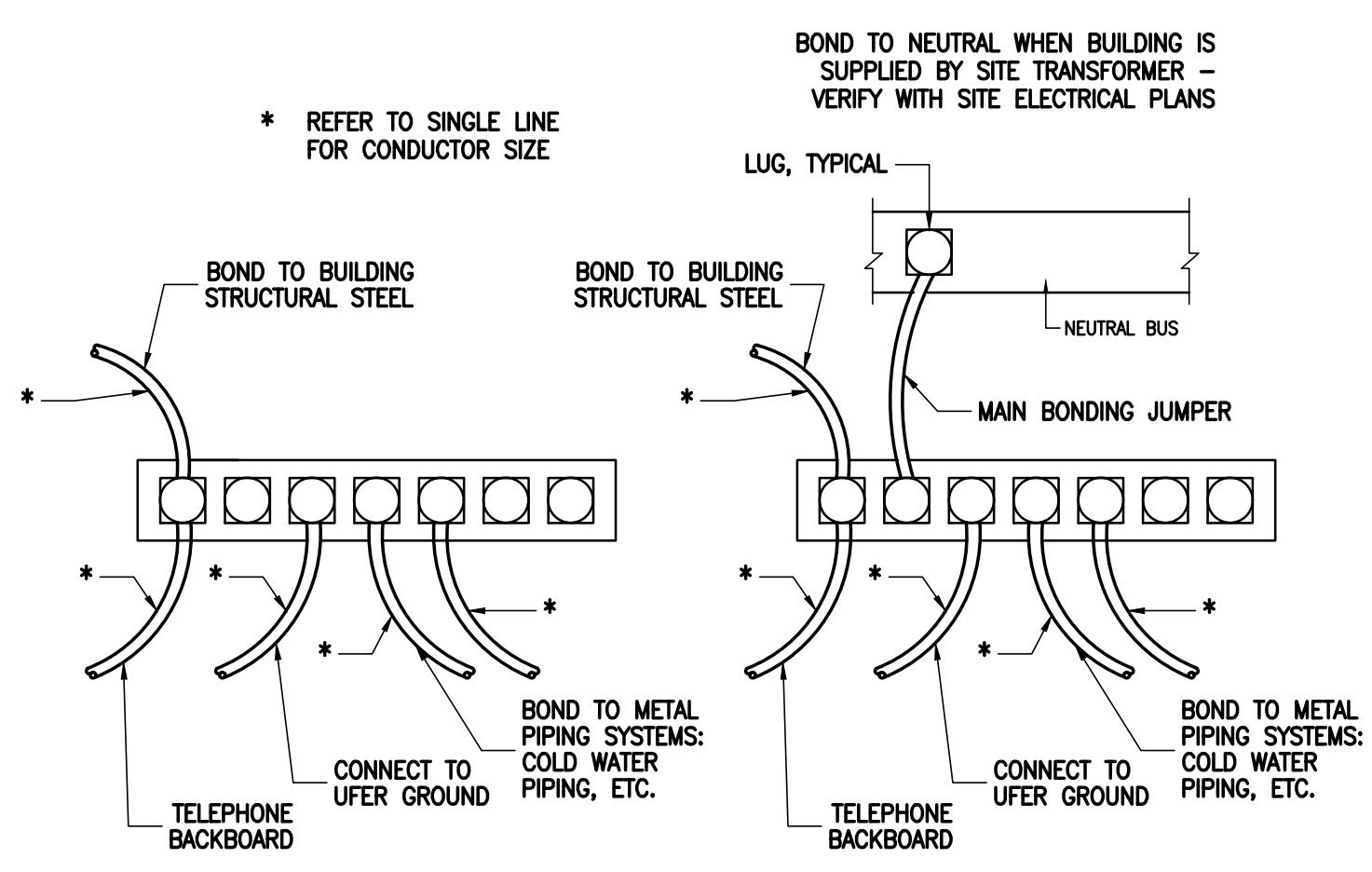


8 MOUNTING HEIGHTS - TYP.

NTS

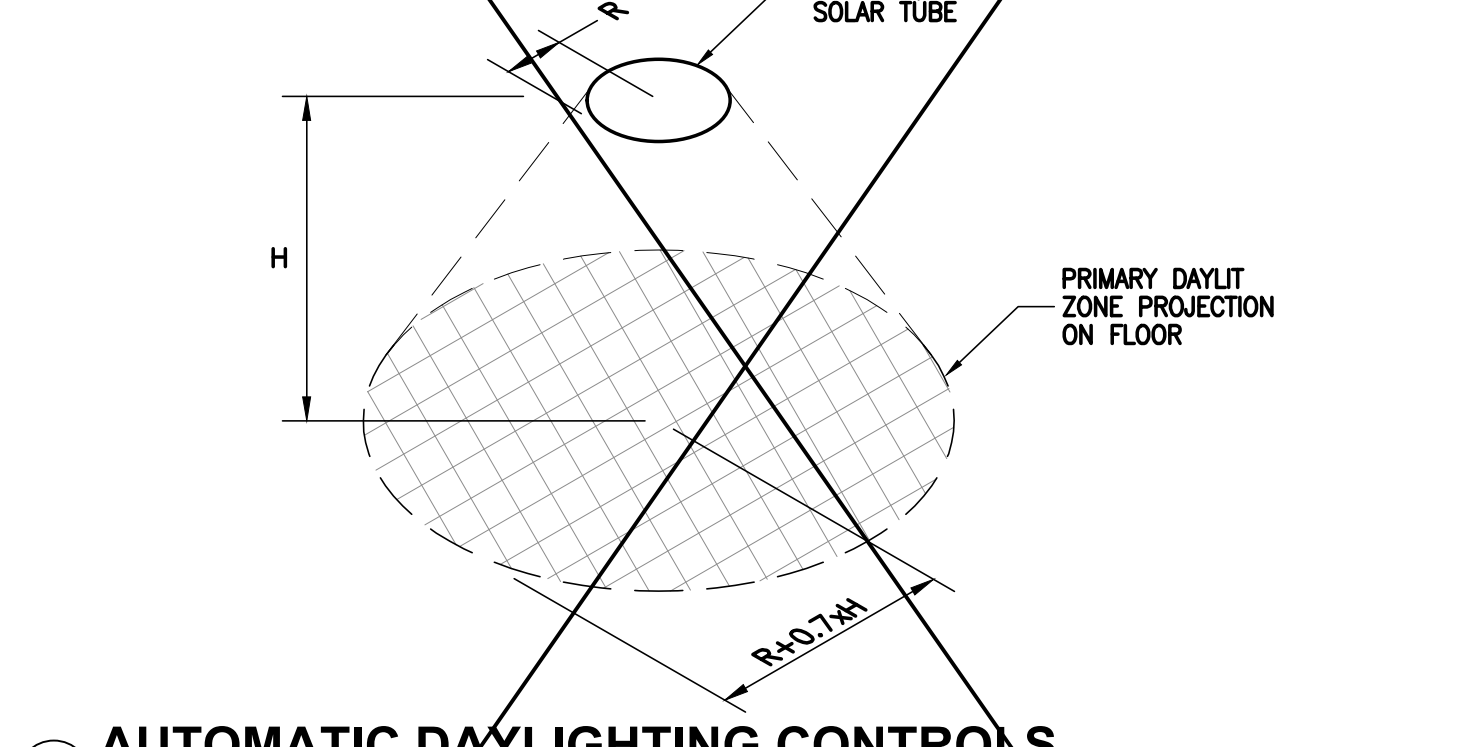
1 BONDING DETAIL

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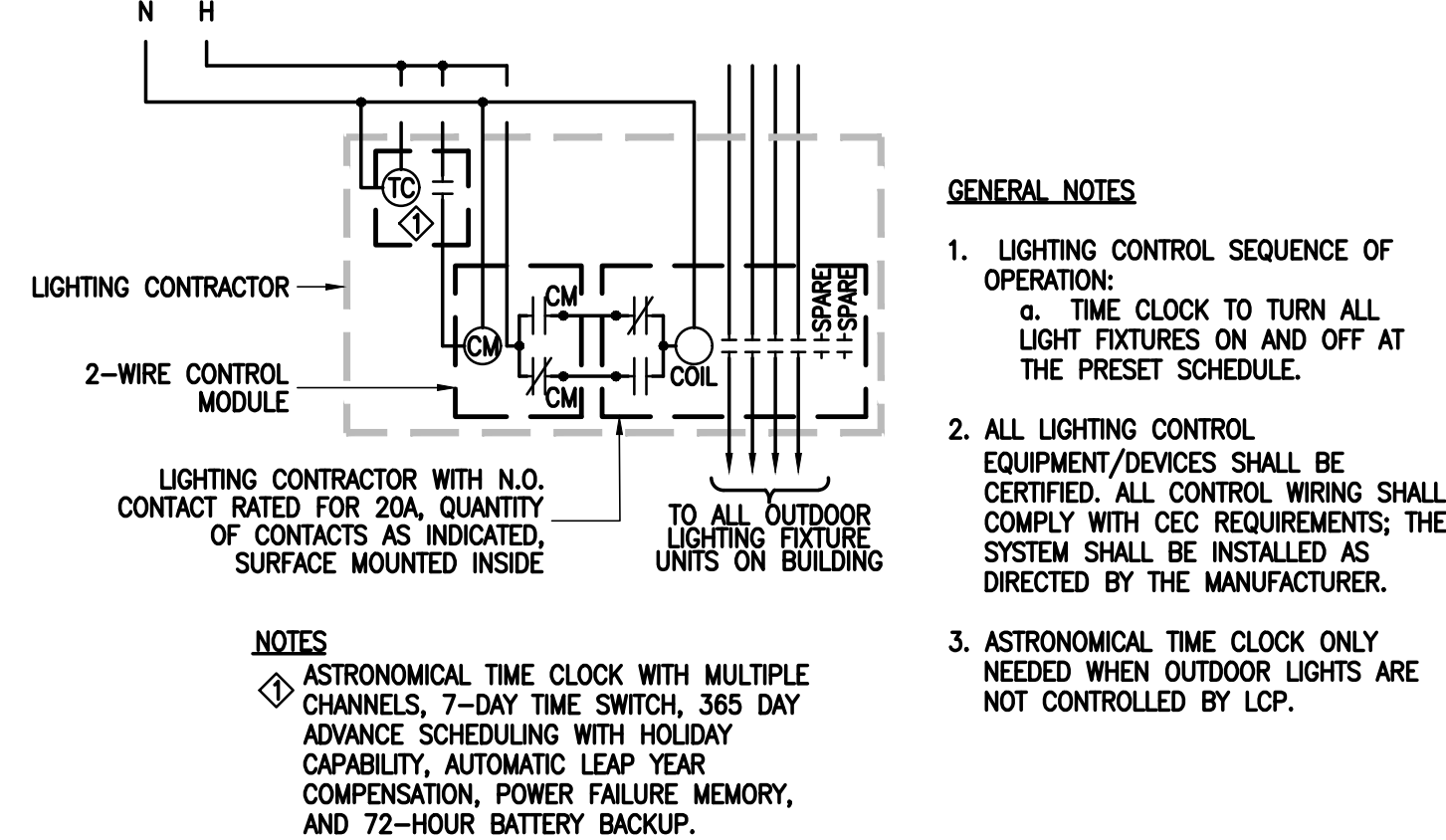
2 FLEX. CONNECTION @ BLDG. SEISMIC JOINT - TYP.

NTS



3 AUTOMATIC DAYLIGHTING CONTROLS

NTS



4 ASTRONOMICAL TIMECLOCK DIAGRAM

NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124742 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 04/10/2025

APPROVALS
FILE # APPLICATION #

JTS MODULAR
A BETTER WAY TO BUILD

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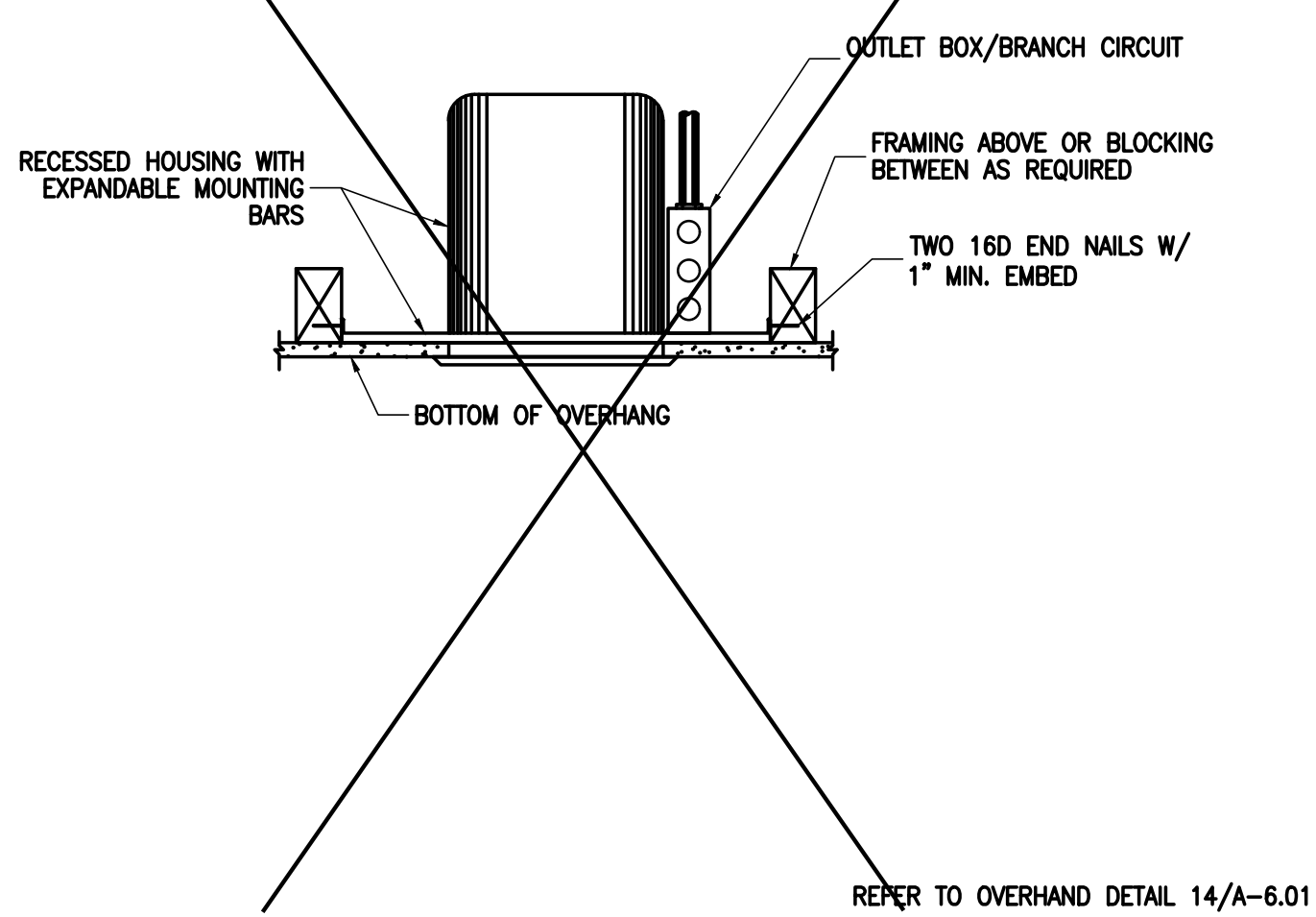
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SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
ELECTRICAL DETAILS

DSA APP NO.
PROJECT NO.
06-0142
DRAWING
E5.03

CANTELM ENGINEERING
2130 F STREET
BAKERSFIELD, CA 93301
TEL: (661) 324-5252
FAX: (661) 324-8439
Cantelmi@Cantelmi.NET
9/12/23

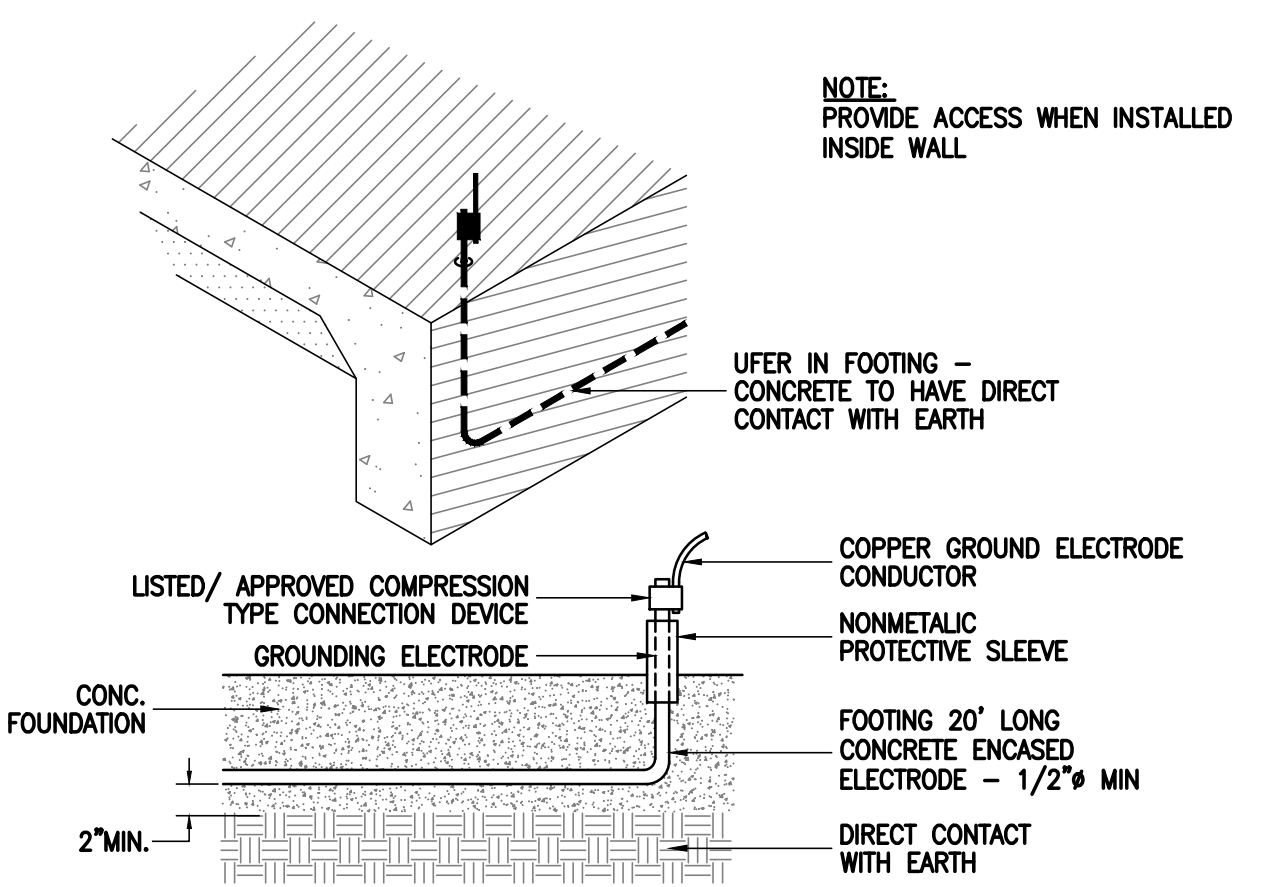
14 WALL PACK MOUNTING DETAIL

NTS



15 DOWNLIGHT MOUNTING DETAIL

NTS

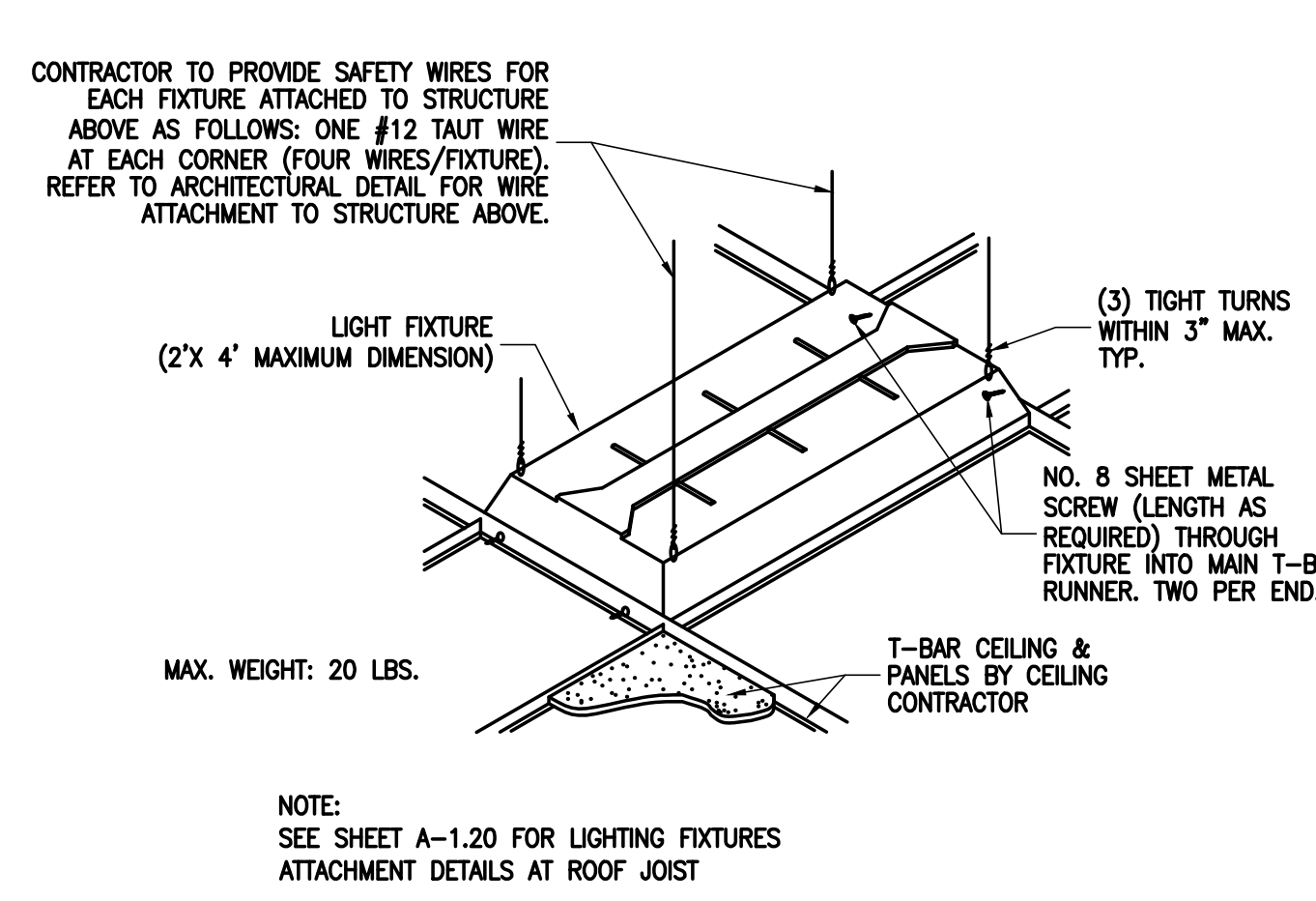


16 UFER GROUND

NTS

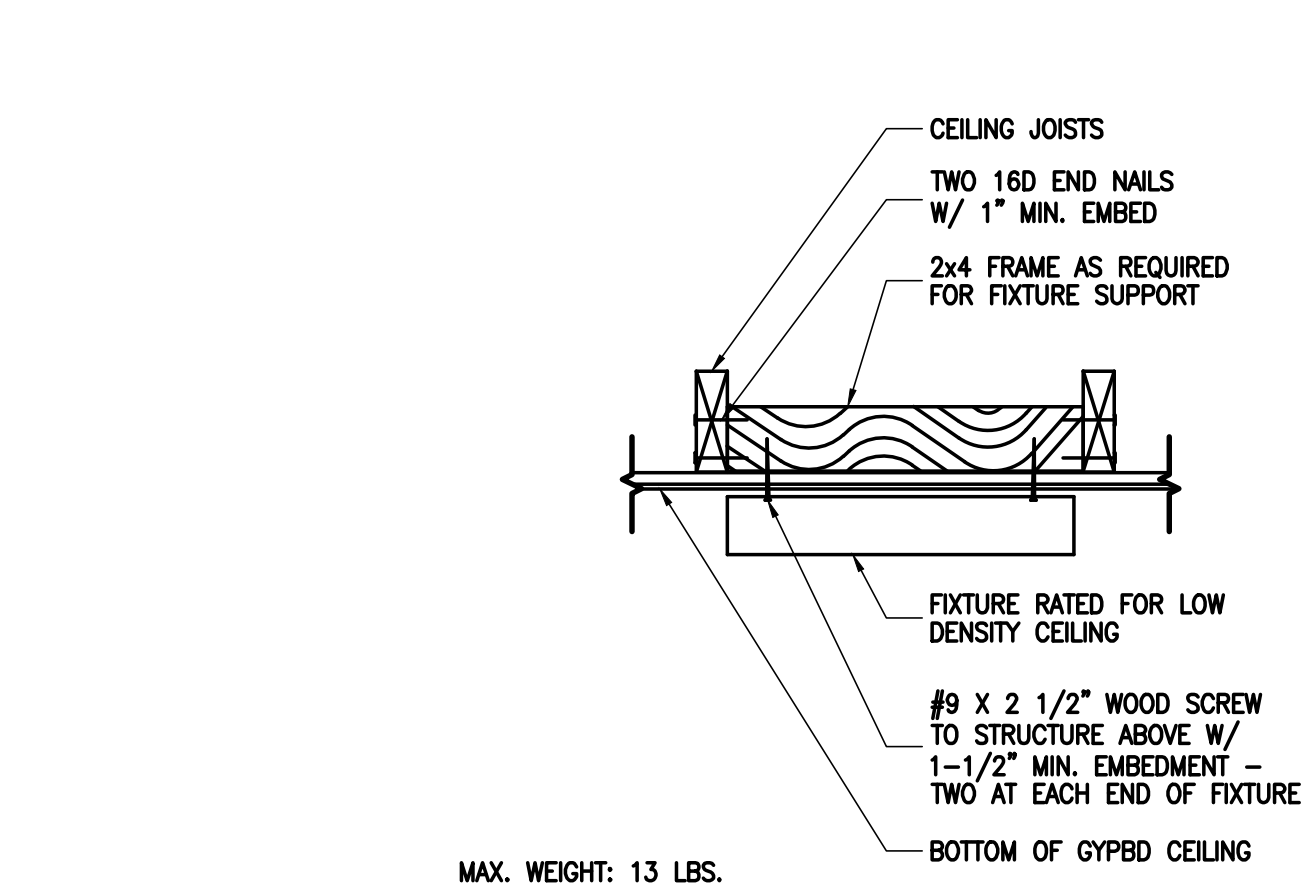
10 PANEL MTG - FLUSH

NTS



11 RECESSED FIXT. MTG.

NTS










12 SURFACE FIXT. MTG.

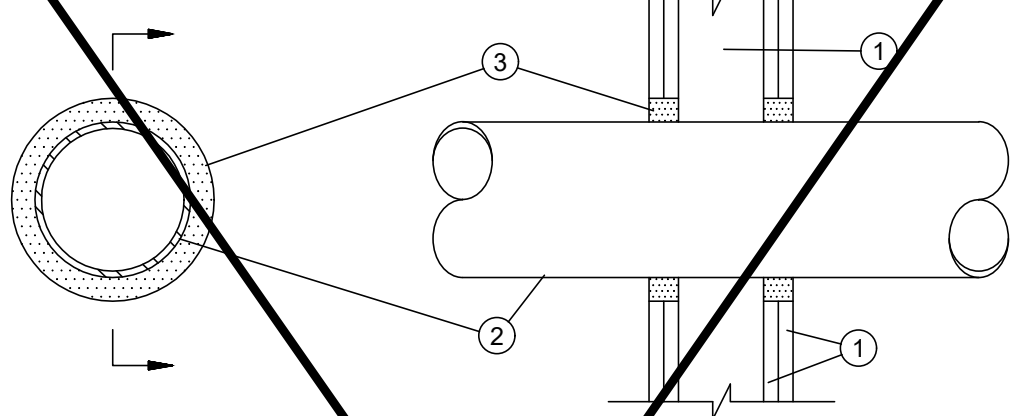
NTS

LIGHT FIXTURE SCHEDULE				VOLTAGE: UNV (U.O.N.)
TYPE	INPUT WATTS	DESCRIPTION AND MANUFACTURER	REMARKS	
F1	59	2x4 LED TROFFER #12 ACRYLIC .125" THICK LENS (OR EQUAL) VOLTAGE: UNV LAMP: LED - 7522 LUMENS MANUFACTURER: COLUMBIA LIGHTING LJT-24-40VLG-FSA12-EDU	*F1E DESIGNATES EMERGENCY BALLAST FIXTURE ELL14 w/ 90 MIN. BATTERY BACK-UP *VERIFY FINISH w/ ARCHITECT *WEIGHT: 18 LBS *REFER TO MOUNTING DETAIL 11/E5.03	
F2	51	1x4 LOW PROFILE WRAPAROUND / LED UL LISTED FOR WET LOCATION VOLTAGE: UNV LAMP: LED - 4714 LUMENS MANUFACTURER: COLUMBIA LIGHTING LAW-1-40HL-EDU	*F2E DESIGNATES EMERGENCY BALLAST FIXTURE ELL14 w/ 90 MIN. BATTERY BACK-UP *VERIFY FINISH w/ ARCHITECT *WEIGHT: 12 LBS *REFER TO MOUNTING DETAIL 12/E5.03	
F3	-	NOT USED		
F4	13	WALL PACK OUTDOOR LIGHT VOLTAGE: UNV LAMP: 13W LED MANUFACTURER: HUBBELL OUTDOOR LIGHTING LNC2-5LU-4K-3	*F4E DESIGNATES EMERGENCY BALLAST FIXTURE BBU w/ 90 MIN. BATTERY BACK-UP *VERIFY FINISH w/ ARCHITECT *WEIGHT: 15 LBS *REFER TO MOUNTING DETAIL 14/E5.03	
F5	-	NOT USED		
F6	27	1x4 LOW PROFILE WRAPAROUND / LED UL LISTED FOR WET LOCATION VOLTAGE: UNV LAMP: LED - 3346 LUMENS MANUFACTURER: COLUMBIA LIGHTING LAW-4-40WV-EDU	*F6E DESIGNATES EMERGENCY BALLAST FIXTURE ELL14 w/ 90 MIN. BATTERY BACK-UP *VERIFY FINISH w/ ARCHITECT *WEIGHT: 12 LBS *REFER TO MOUNTING DETAIL 12/E5.03	
X1	3.8	LED EXIT/EMERGENCY UNIT COMBO VOLTAGE: UNV LAMP: (2) 4.12W LED MANUFACTURER: COMPASS - CCR LED	- - *WEIGHT: 5 LBS -	

* ALL EXTERIOR LIGHT FIXTURES SHALL BE DARK SKY COMPLIANT AND SHALL NOT EXCEED BUG RATING REQUIREMENTS AS SHOWN IN TABLE 5.106.8 OF THE CALIFORNIA ENERGY CODE.

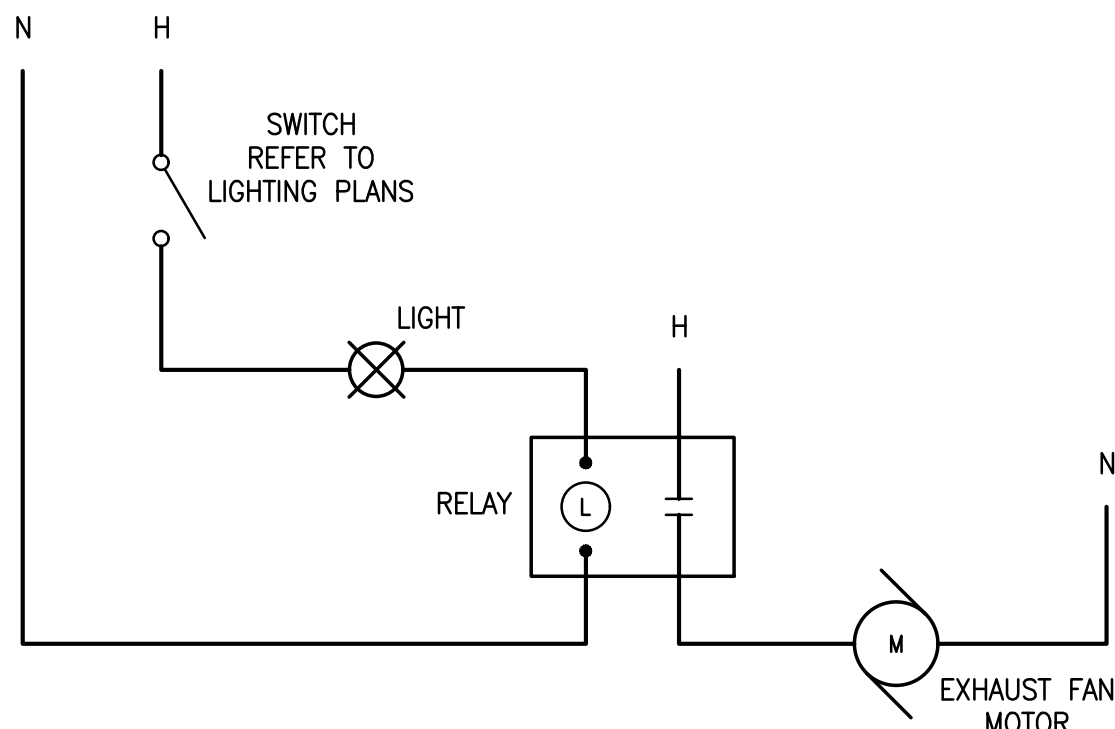
LIGHTING CONTROLS SCHEDULE			
SYMBOL	DESCRIPTION AND MANUFACTURER	SYMBOL	
	OCCUPANCY SENSOR CEILING MOUNT - 360° SENSING ANGLE COMMUNICATION: (2)#18 AWG MANUFACTURER: DOUGLAS #WORSOG1-P-N		RELAY PACK FOR CONTROLLED RECEPTACLES FOR CONTROLLED RECEPTACLES IN OFFICE AREAS 20A MAX COMMUNICATION: (2)18 GAUGE WIRE MANUFACTURER: DOUGLAS WUL-3924
	DAYLIGHT SENSOR CEILING MOUNT IN DAYLIGHT AREA COMMUNICATION: (2)#18 AWG MANUFACTURER: DOUGLAS #WPP-INT		DIMMING RELAY PACK FOR CONTROLLED LIGHTS MOUNT CONCEALED ABOVE CEILING - 16A MAX COMMUNICATION: (2)18 GAUGE WIRE MANUFACTURER: DOUGLAS WUL-3924
	DIMMING LIGHT SWITCH COLOR TO MATCH WALL FINISH - WH=WHITE COMMUNICATION: (2)#18 AWG MANUFACTURER: DOUGLAS #WSD-3501		OCCUPANCY WALL LIGHT SWITCH COLOR TO MATCH WALL FINISH - WH=WHITE COMMUNICATION: (2)#18 AWG MANUFACTURER: DOUGLAS #WOSOG1-P-VW


HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC --
FS-One Sealant *Bearing the UL Classification Mark
F Ratings -- 1 and 2 Hr (See Item 1)
T Ratings -- 1 and 2 Hr (See Item 1)
L Rating at Ambient - Less Than 1 CFM/sq
ft L Rating at 400 F - 2 CFM/sq ft



- Wall Assembly -- The 1 or 2 hr fire-rated gypsum wall board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
B. Gypsum Board -- 5/8 in. thick, 1/2 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 3-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls. The F Rating of the firestop system is equal to the fire rating of the wall assembly.
C. Through-Penetrant -- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Steel Pipe -- Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe -- Nom 30 in. diam (or smaller) cast or ductile iron pipe.
C. Conduit -- Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
D. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
E. Copper Pipe -- Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.

3 PIPE PENETRATION DETAIL



4 EXHAUST FAN WIRING DIAGRAM

TYPICAL DESIGN

SOG 40

DESCRIPTION:

THE CLASSROOM LIGHTING CONTROLS SHALL BE PART OF THE CENTRAL LIGHTING CONTROL SYSTEM; LIGHTING SHALL BE CONFIGURED FOR ON/OFF/DIMMING/DAYLIGHT HARVESTING, AND SHALL PROVIDE THE FOLLOWING --

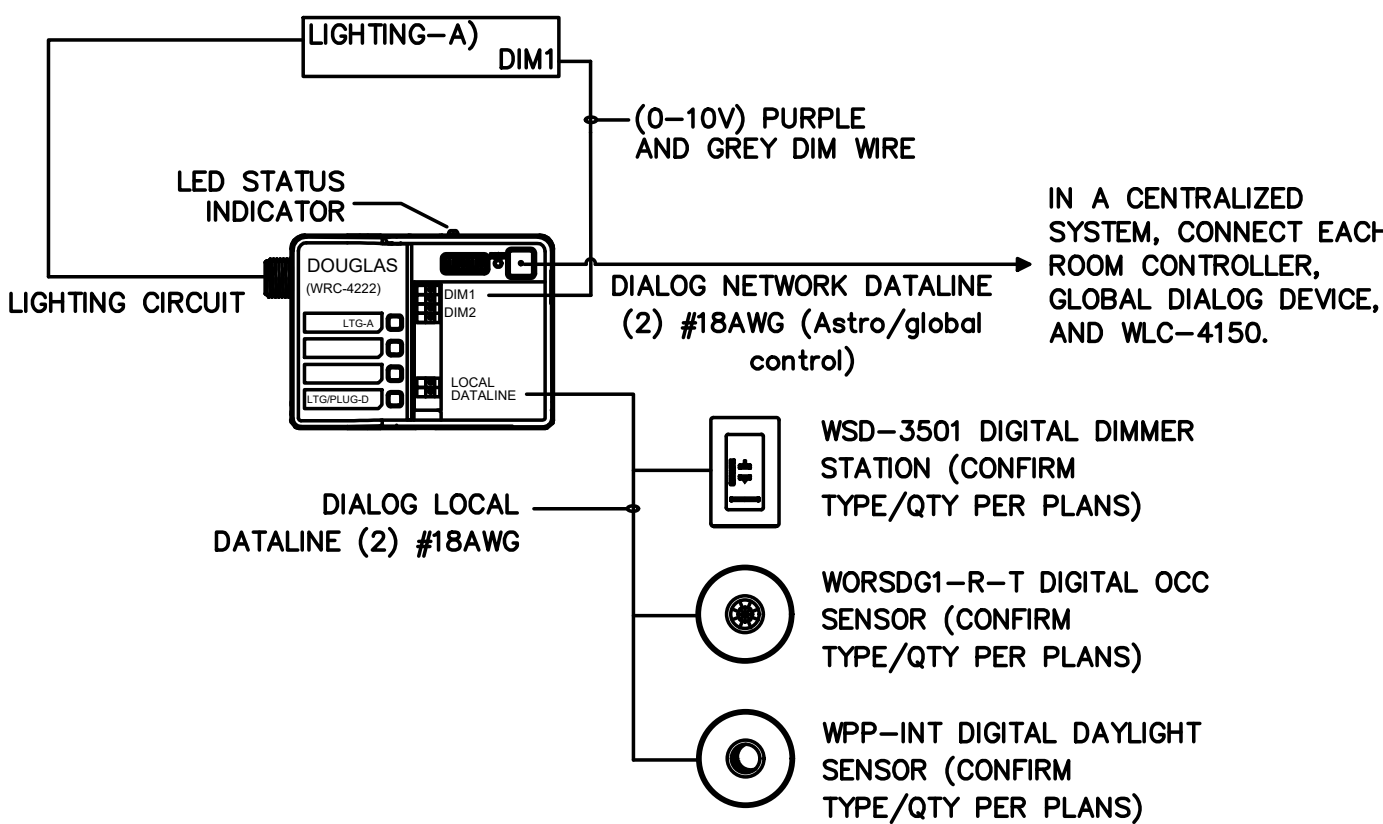
SEQUENCE OF OPERATIONS:

1. CLASSROOM LIGHTING SHALL COME ON VIA WALL STATION DIMMER.

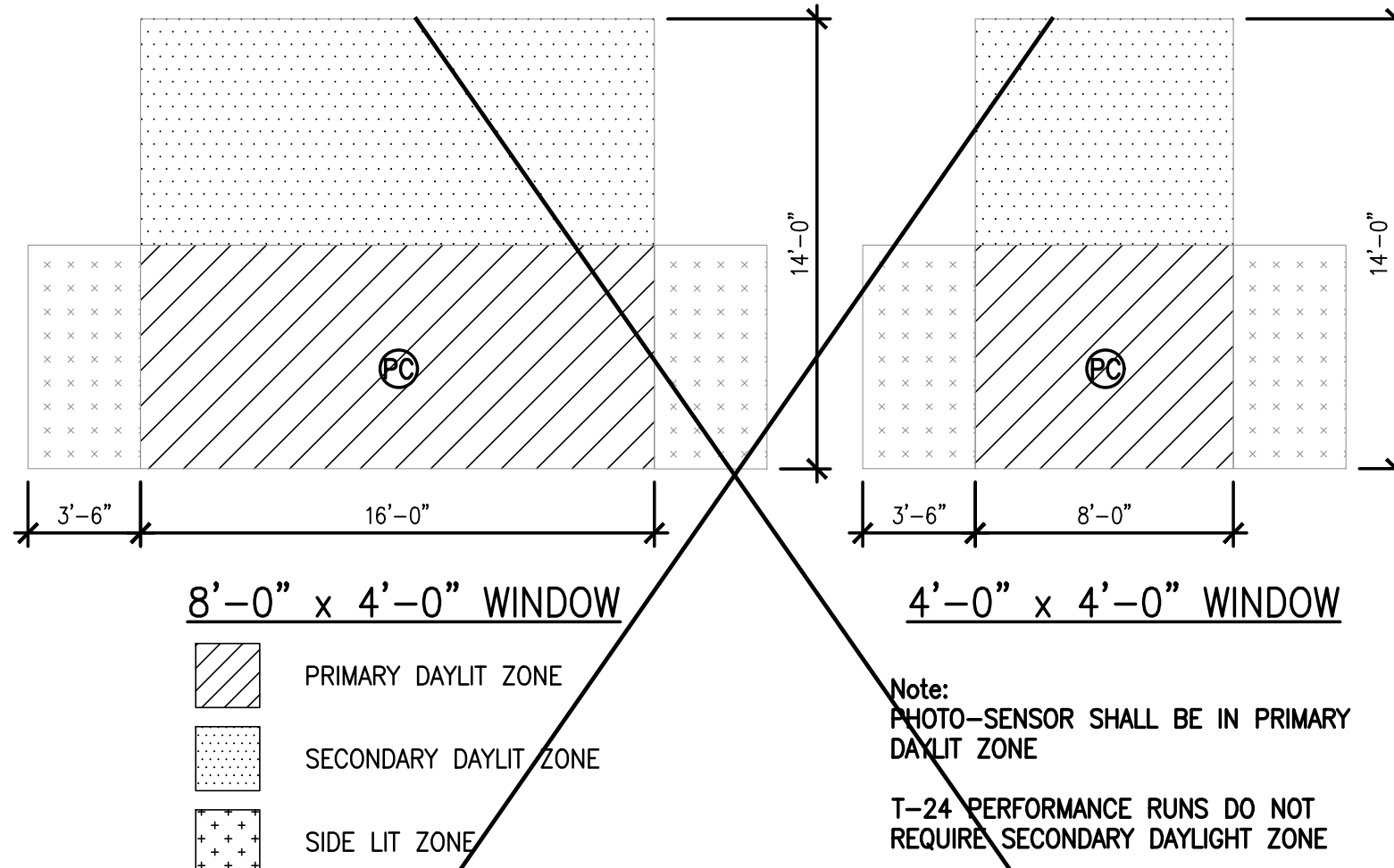
2. DAYLIGHT SENSOR SHALL CAUSE THE LIGHTING SYSTEM TO DIM THE LIGHTS UNIFORMLY BASED ON NATURAL DAYLIGHT AND PROVIDE TARGET FOOT-CANDLE LEVEL AT WORKPLANE HEIGHT. SENSORS IN DAYLIGHT AREA SHALL BE LOCATED PER MANUFACTURER'S RECOMMENDATIONS.

3. OCCUPANCY/VACANCY SENSORS SHALL TURN LIGHTS OFF 20 MINUTES AFTER THE CLASSROOM HAS BEEN VACATED. IN THE EVENT THE LUMINAIRES ARE TURNED OFF BY THE VACANCY SENSOR AND OCCUPANCY IS DETECTED BY THE VACANCY SENSOR WITHIN 30 SECONDS OF THE "OFF EVENT", LUMINAIRES SHALL AUTOMATICALLY BE ENERGIZED TO THEIR PREVIOUS SETTING.

4. CLASSROOM LIGHTING SHALL BE WIRED TO COMPLY WITH DEMAND RESPONSE SIGNAL TRIGGERED BY THE UTILITY COMPANY.



1 LIGHTING SEQUENCE OF OPERATION - TYP.

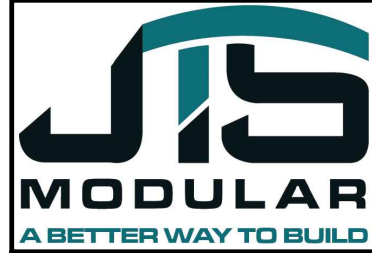


2 DAYLIGHT ZONE LEGEND

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DATE: 04/10/2025

APPROVALS

FILE # APPLICATION #



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Bakersfield, CA 93313
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MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
ELECTRICAL LIGHTING SCHEDULE & DETAILS
DRAWING TITLE



LICENSE #E18218
CANTELM
ENGINEERING
2130 F STREET
BAKERSFIELD, CA 93301
TEL: (661) 324-5252
FAX: (661) 324-8439
Cantelmi@Cantelmi.NET
9/12/23

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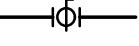
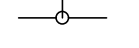
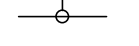
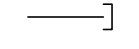

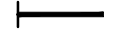

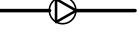
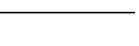
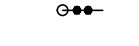
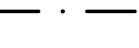
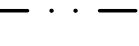
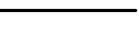




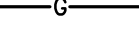


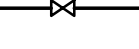
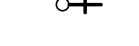

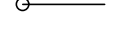
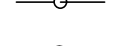







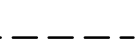





PROJECT NO.

06-0142

DRAWING

E5.04

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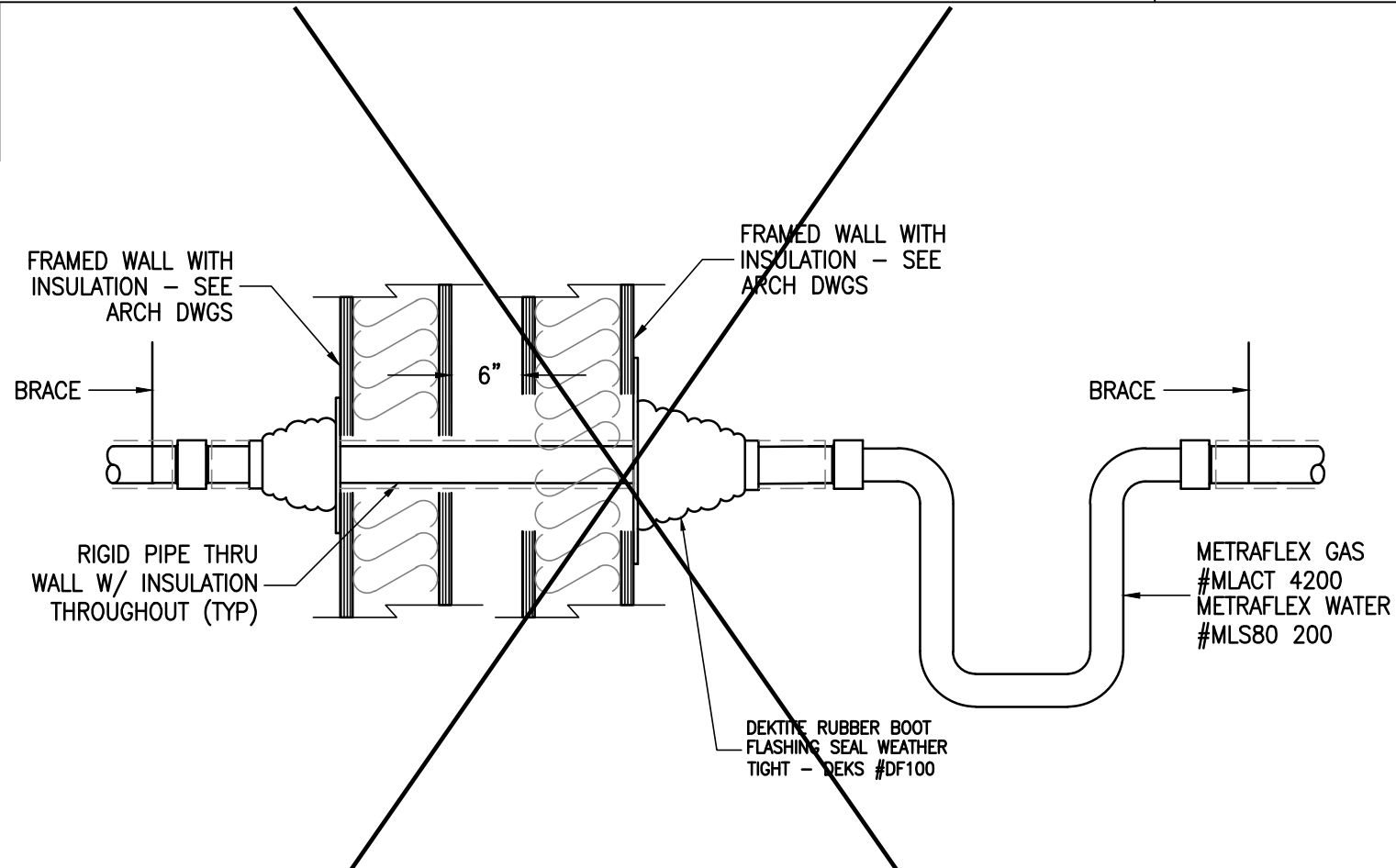
PLUMBING ABBREVIATIONS				SYMBOLS	
				SYMBOL	DESCRIPTION
&	AND	HB	HOSE BIBB		BALL VALVE
∠	ANGLE	HD	HEAD		BRANCH TOP CONNECTION
⊥	CENTER LINE	HW	HARDWARE		BRANCH BOTTOM CONNECTION
⊘	PROPERTY LINE	HL	HIGH		CAPPED PIPE
⊙	DIAMETER OR ROUND	HORIZ	HORIZONTAL		CHECK VALVE
(E)	EXISTING	HP	HIGH PRESSURE		CLEANOUT
(N)	NEW	HR	HOOR		CLEANOUT TO GRADE
⊥	PERPENDICULAR	HT	HEIGHT		CIRCULATING PUMP
—	ROUND or NUMBER	HVAC	HEATING, VENTILATING, AIR CONDITIONING		CONDENSATE DRAIN
A/C	AIR CONDITIONING	ID	INSIDE DIAMETER (DIM.)		CONDENSATE "2" TRAP
ACC	ACCESSIBLE	IS	INSULATION		DOMESTIC COLD WATER
AP	ACCESS PANEL	INT	INTERIOR		DOMESTIC HOT WATER
AD	AREA DRAIN	IW	IRIGATION WATER		DOMESTIC HOT WATER RETURN
ADJ	ADJUSTABLE	LAV	LAVATORY		EXISTING WASTE OR SOIL & WASTE
ADMIN	ADMINISTRATION	LPG	LIQUID PETROLEUM GAS		FIRE HYDRANT
AGGR	AGGREGATE	M	MEN		FLOOR CLEANOUT
AL	ALUMINUM	MACH	MACHINE		FLOOR SINK
APPROX	APPROXIMATE	MATL	MATERIAL		GAS
APPT	APPOINTMENTS	MAX	MAXIMUM		GAS COCK
ARCH.	ARCHITECTURAL	MECH	MECHANICAL		GAS PRESSURE REGULATOR
ASB	ASBESTOS	MOD SINK	MOD. SINK		GATE VALVE
ASPH	ASPHALT	MTL	METAL		HOSE BIBB
ASST	ASSISTANT	MFR	MANUFACTURER		PIPE RISER (ELBOW)
AUTO.	AUTOMATIC	MH	MANHOLE		PIPE DROP (ELBOW)
BD	BOARD	MIN	MINIMUM		PIPE DROP OR RISER
(BF)	BELOW FINISH FLOOR	MISC	MISCELLANEOUS		POINT OF CONNECTION
(BG)	BELOW FINISH GRADE	MONIT	MONITOR		PROCESS WASTE
BLDG	BUILDING	N	NOT		SHUT-OFF VALVE
BLKG	BLOCKING	NO, or #	NOT IN CONTRACT NUMBER		SHUT-OFF VALVE IN YARDBOX
BM	BEAM	NIC	NOMINAL		SOIL & WASTE
BOT	BOTTOM	NTS	NOT TO SCALE		TRAP ARM
BY	BALL VALVE	NO. or #	NOT IN CONTRACT NUMBER		TRAP PRIMER
CB	CATCH BASIN	NOM	NOMINAL		VENT
CD	CONDENSATE DRAIN	NTS	NOT TO SCALE		VENT OFFSET
CEM	CEMENT	NO.	NUMBER		VENT THRU ROOF
CER	CERAMIC	NO.	NUMBER		WALL CLEANOUT
CER	CERAMIC	NO.	NUMBER		WASTE
CAST	CAST IRON	NO.	NUMBER		WATER HAMMER
CJ	CONTROL JOINT	NO.	NUMBER		
CLG	CEILING	NO.	NUMBER		
CLGK	CAULKING	NO.	NUMBER		
CLR	CLEAR	NO.	NUMBER		
CO	CLEANOUT	NO.	NUMBER		
COL	COLUMN	NO.	NUMBER		
COMP	COMPRESSED	NO.	NUMBER		
CONC	CONCRETE	NO.	NUMBER		
CONF	CONFERENCE	NO.	NUMBER		
CONN	CONNECTION	NO.	NUMBER		
CONSTR	CONSTRUCTION	NO.	NUMBER		
CONT	CONTINUOUS	NO.	NUMBER		
CORR	CORRIDOR	NO.	NUMBER		
COTG	CLEANOUT TO GRADE	NO.	NUMBER		
CP	CIRCULATING PUMP	NO.	NUMBER		
CKS	COUNTERSINK	NO.	NUMBER		
CTR	CENTER	NO.	NUMBER		
CV	CHECK VALVE	NO.	NUMBER		
DBL	DOUBLE	NO.	NUMBER		
DCW	DOMESTIC COLD WATER	NO.	NUMBER		
DEPT	DEPARTMENT	NO.	NUMBER		
DET	DETAIL	NO.	NUMBER		
DFW	DRINKING FOUNTAIN	NO.	NUMBER		
DHW	DOMESTIC HOT WATER	NO.	NUMBER		
DHWR	DOMESTIC HOT WATER RETURN	NO.	NUMBER		
DIA or Ø	DIAMETER	NO.	NUMBER		
DIR	DIRECTOR	NO.	NUMBER		
DN	DOWN	NO.	NUMBER		
DR	DOOR	NO.	NUMBER		
DS	DOWNSPOUT	NO.	NUMBER		
DSP	DRY STANDPIPE	NO.	NUMBER		
DTW	DOMESTIC TEMPERED WATER	NO.	NUMBER		
DWG	DRAWING	NO.	NUMBER		
E	EAST	NO.	NUMBER		
EA	EACH	NO.	NUMBER		
EDF	ELECTRIC DRINKING FOUNTAIN	NO.	NUMBER		
ELEC	ELECTRICAL	NO.	NUMBER		
ELEV	ELEVATION	NO.	NUMBER		
EMER	EMERGENCY	NO.	NUMBER		
ENCL	ENCLOSURE	NO.	NUMBER		
EO	ELECTRICAL OUTLET	NO.	NUMBER		
EP	ELECTRICAL PANEL	NO.	NUMBER		
EQUAL	EQUAL	NO.	NUMBER		
EQUIP	EQUIPMENT	NO.	NUMBER		
EXIST	EXISTING	NO.	NUMBER		
EXP	EXPANDED	NO.	NUMBER		
EXPO.	EXPOSED	NO.	NUMBER		
EXT	EXTERIOR	NO.	NUMBER		
FA	FIRE ALARM	NO.	NUMBER		
FCO	FLOOR CLEANOUT	NO.	NUMBER		
FD	FLOOR DRAIN	NO.	NUMBER		
FDN	FOUNDATION	NO.	NUMBER		
FE	FIRE EXTINGUISHER	NO.	NUMBER		
FEC	FIRE EXTINGUISHER CABINET	NO.	NUMBER		
FH	FIRE HYDRANT	NO.	NUMBER		
FHC	FIRE HOSE CAB.	NO.	NUMBER		
FHMS	FLAT HEAD METAL SCREW	NO.	NUMBER		
FIN.	FINISH	NO.	NUMBER		
FL	FLOOR	NO.	NUMBER		
FLASH.	FLASHING	NO.	NUMBER		
FM	FIRE MAIN	NO.	NUMBER		
FOC	FACE OF CONCRETE	NO.	NUMBER		
FOF	FACE OF FINISH	NO.	NUMBER		
FR	FRAME	NO.	NUMBER		
FRF	FIREPROOFING	NO.	NUMBER		
FS	FLOOR SINK	NO.	NUMBER		
FSH	FIRE SPRINKLER HEAD	NO.	NUMBER		
FSL	FIRE SPRINKLER LINE	NO.	NUMBER		
FTR	FLUE THRU ROOF	NO.	NUMBER		
FUNC	FUNCTION	NO.	NUMBER		
FURR	FURRING	NO.	NUMBER		
FUT	FUTURE	NO.	NUMBER		
GA	GALVE	NO.	NUMBER		
GALV	GALVANIZED	NO.	NUMBER		
GC	GAS COCK	NO.	NUMBER		
GEN	GENERAL	NO.	NUMBER		
GI	GALVANIZED IRON	NO.	NUMBER		
GL	GLASS	NO.	NUMBER		
GR	GRADE	NO.	NUMBER		
GRD	GROUND	NO.	NUMBER		
G	GAS LINE	NO.	NUMBER		

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 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:	
1. ALL PERMANENT EQUIPMENT AND COMPONENTS.	
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEX CABLE.	
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY 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 HAVING 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, LEES 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 2022 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 (EG. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO 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 THE LOADS.	
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP),ELECTRICAL DISTRIBUTION SYSTEM (E):	
MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.	
MP <input type="checkbox"/> MD <input type="checkbox"/> PP <input type="checkbox"/> OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) <u> </u> .	

TITLE 24 CODES	
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) (PART 1, TITLE 24 CCR)	
2022 CALIFORNIA BUILDING CODE (CBC) (PART 2, TITLE 24 CCR)	
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA ELECTRICAL CODE (CEC) (PART 3, TITLE 24 CCR)	
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24 CCR)	
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24 CCR)	
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA ENERGY CODE (CEC) (PART 6, TITLE 24 CCR)	
2022 CALIFORNIA FIRE CODE (CFC) (PART 9, TITLE 24 CCR)	
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC) (PART 10, TITLE 24 CCR)	
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11, TITLE 24 CCR)	
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.	
2019 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS.	
2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24 CCR)	
NFPA 13 – 2022 EDITION NFPA 14 – 2019 EDITION	
NFPA 17 – 2021 EDITION NFPA 17A – 2021 EDITION	
NFPA 20 – 2019 EDITION NFPA 22 – 2018 EDITION	
NFPA 24 – 2019 EDITION NFPA 72 – 2022 EDITION	
NFPA 80 – 2019 EDITION NFPA 2001 – 2018 EDITION	
UL 300 – 2005 EDITION (R2010) UL 464 – 2003 EDITION	
UL 521 – 1999 EDITION UL 1971 – 2002 EDITION	
ICC 300 – 2017 EDITION	
REFERENCED CODE SECTIONS FOR APPLICABLE STANDARDS	
2022 CBC, CHAPTER 35 & 2022 CFC, CHAPTER 80	

GENERAL PLUMBING NOTES

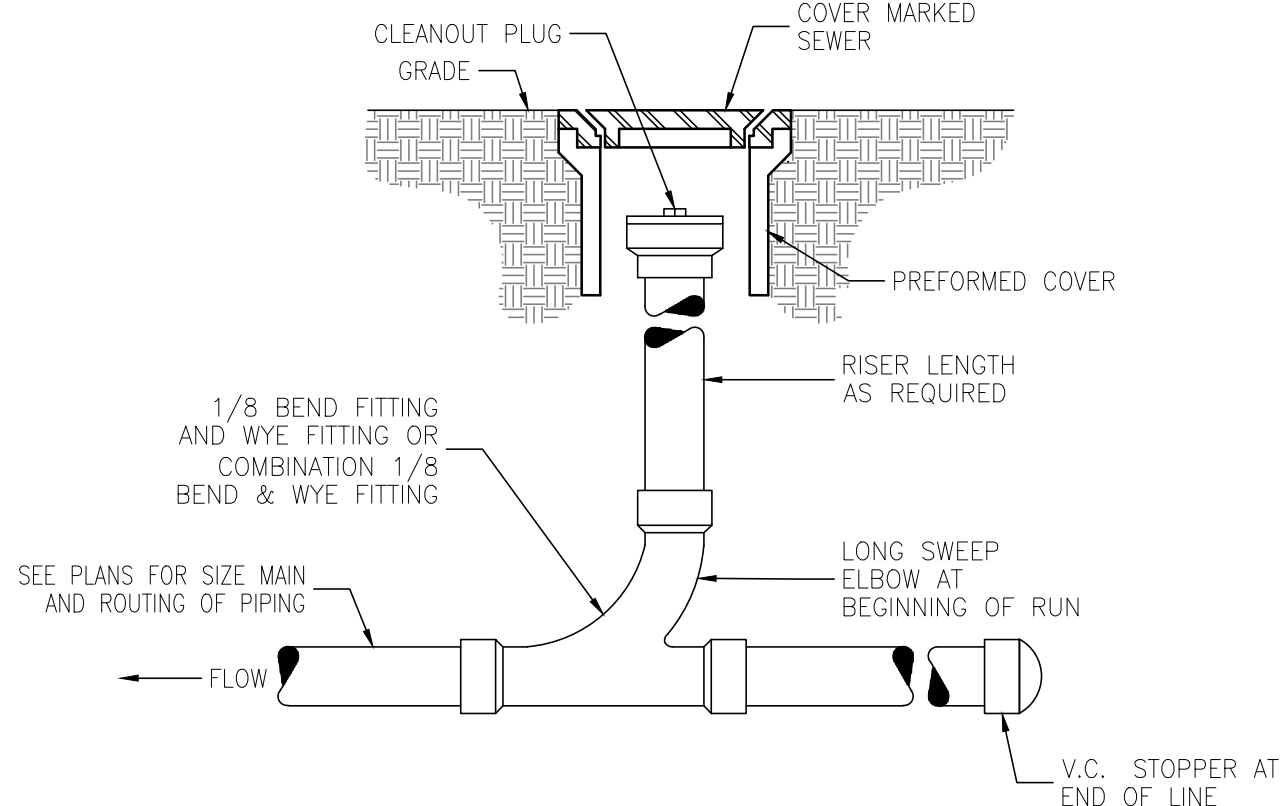
WARRANTIES UNDER THE CONTRACT SHALL BE WARRANTED AGAINST DEFECTS IN WORKMANSHIP AND (CONTRACTOR FURNISHED) MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND EQUIPMENT. 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13 FLEX. CONNECTION @ BLDG. SEISMIC JOINT - TYP.

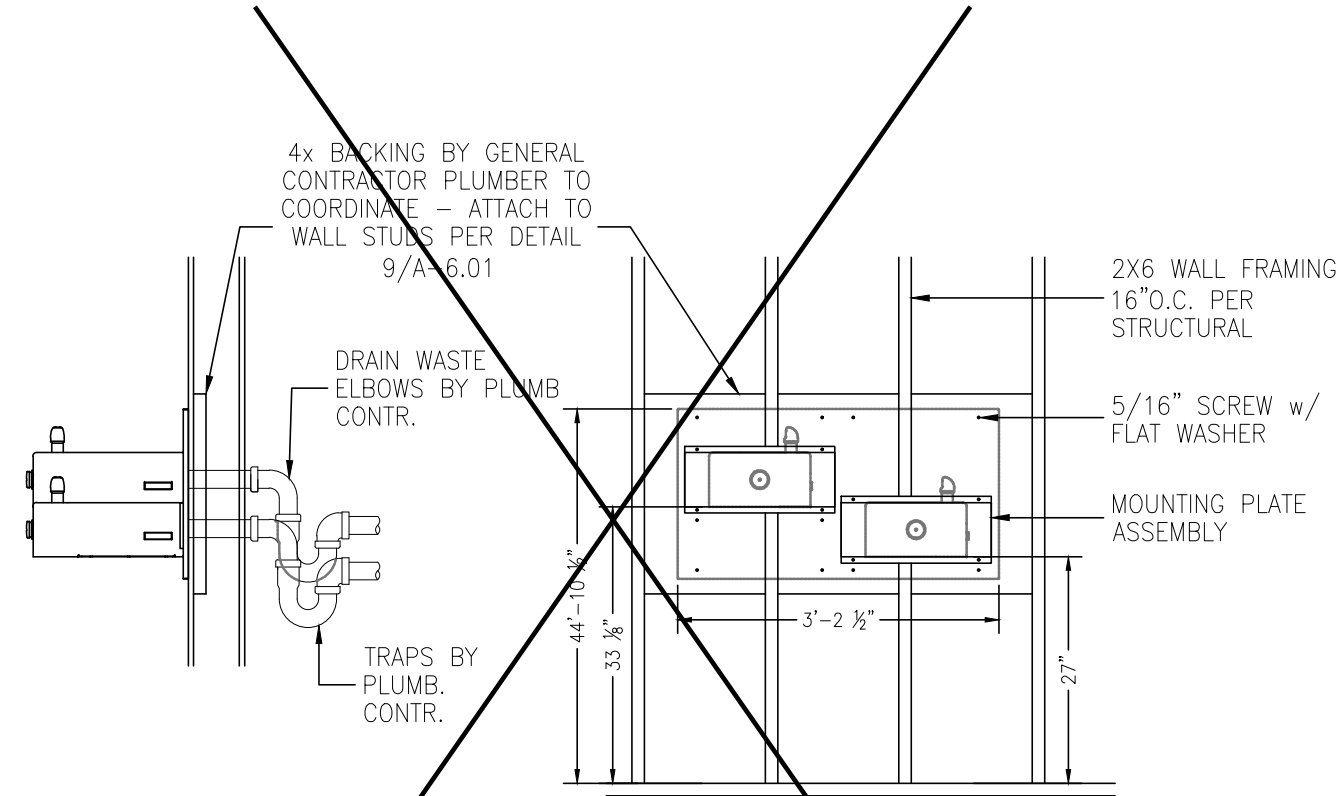
NTS

- NOTE:
1. FITTINGS FOR CLEANOUT SHALL BE SUITABLE FOR PIPE MATERIALS USED
2. CLEAN-OUT AT EVERY 100'-0" MAX DISTANCE. CPC 2022 SECTION 719.1



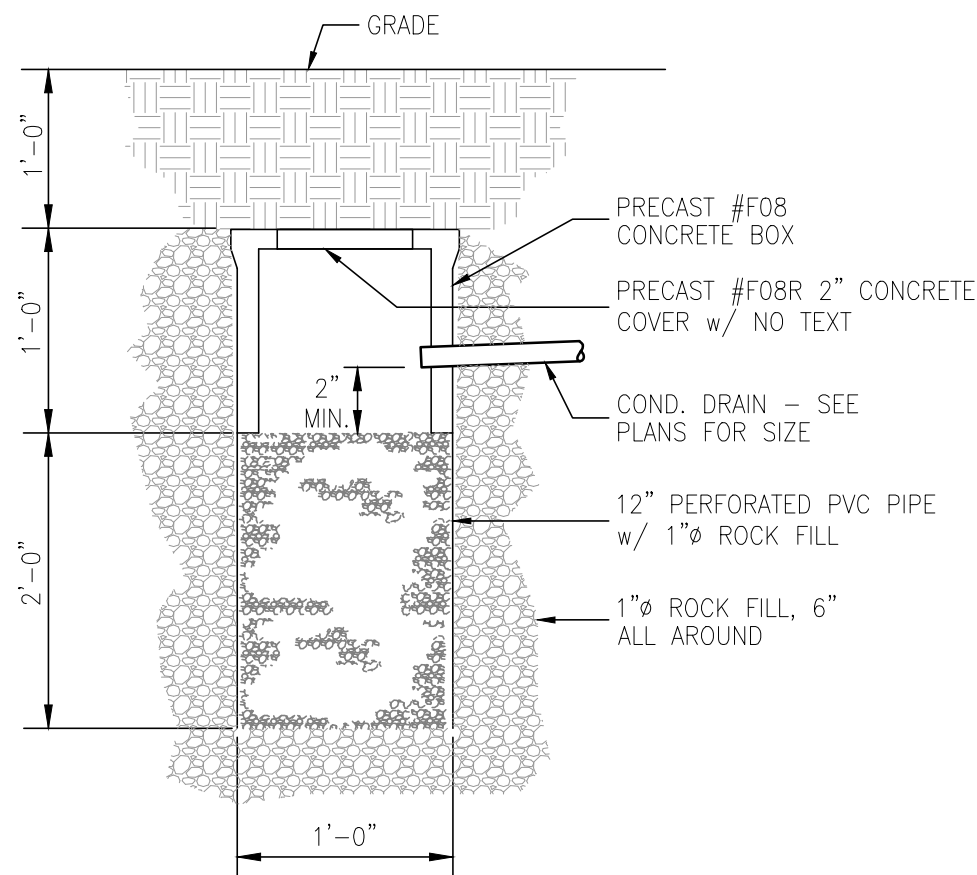
14 CLEANOUT TO GRADE - TYP.

NTS



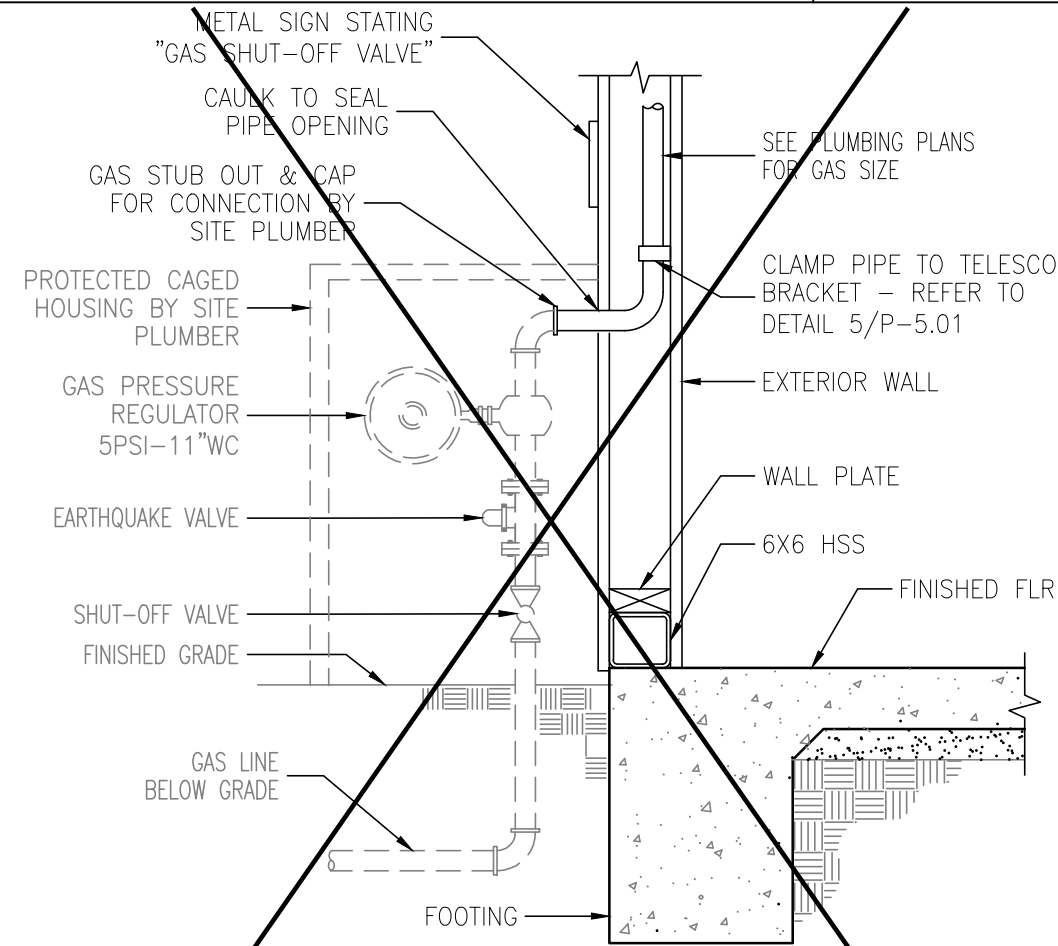
15 HI-LO DRINKING FOUNTAIN (TYPICAL)

NTS



16 ROCK POCKET

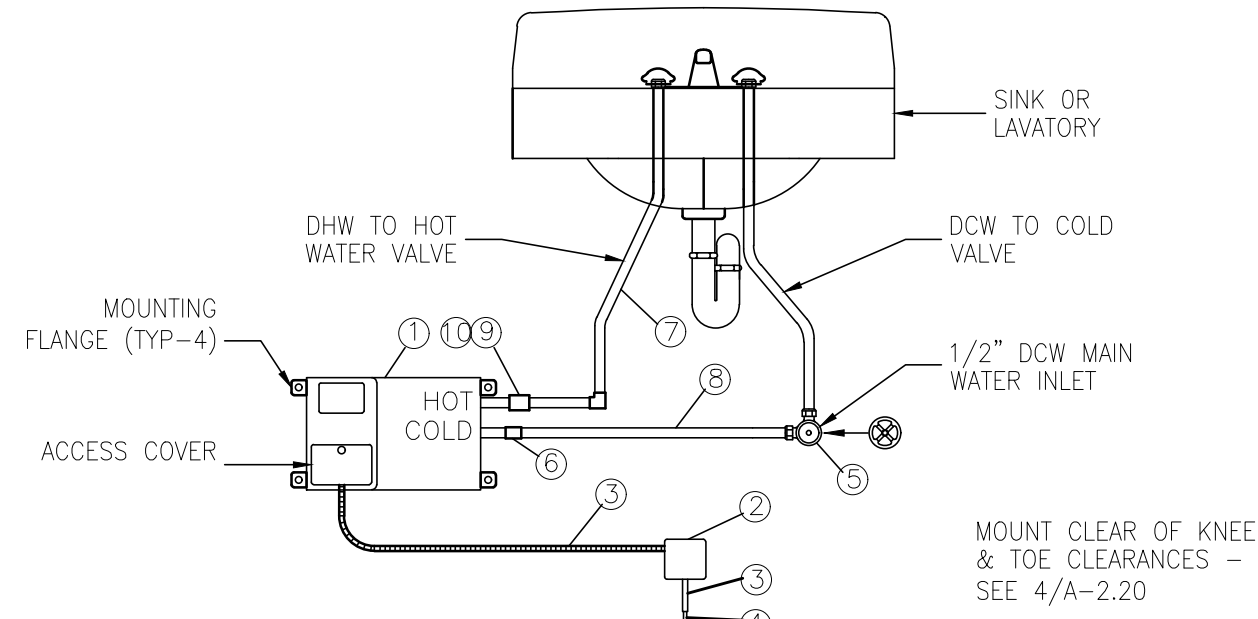
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9 GAS PIPING @ BLDG

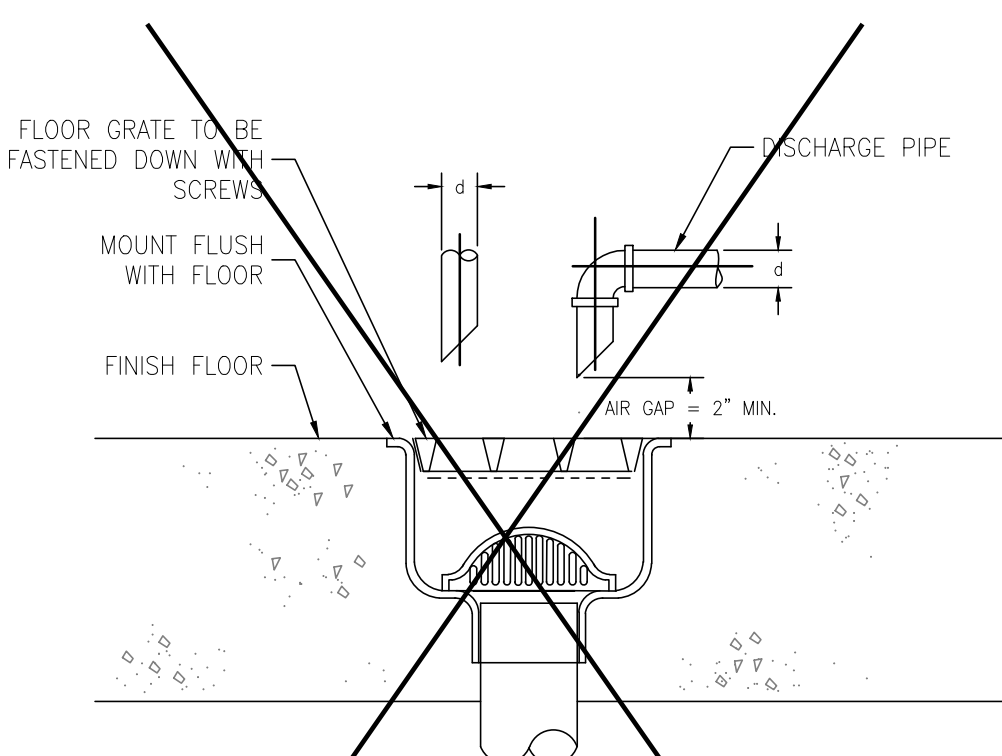
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- ① CHROMONITE INSTANT-FLOW WATER HEATER ⑦ FITTING
② ELECTRICAL JUNCTION BOX ⑧ COPPER TUBING
③ ELECTRICAL CONDUIT ⑨ COPPER TUBING
④ ELECTRICAL WIRE ⑩ A-500 FAUCET FLOW CONTROL (MALE)
⑤ DUAL OUTLET ANGLE VALVE ⑪ A-510 FAUCET FLOW CONTROL (FEMALE)



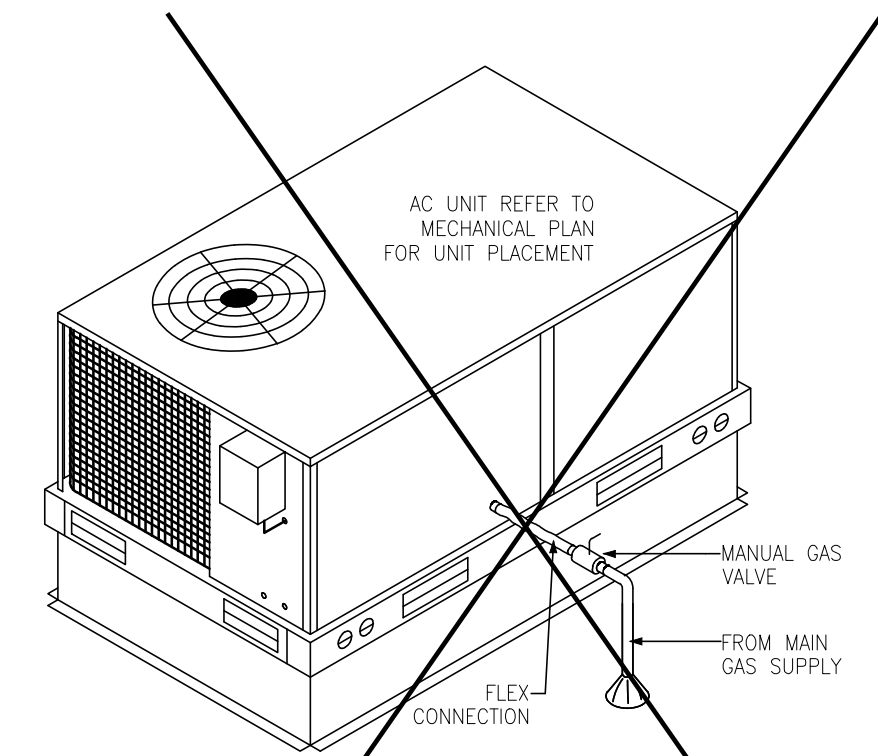
10 INSTANT-FLOW WATER HEATER @ SINKS & LAVS.

NTS



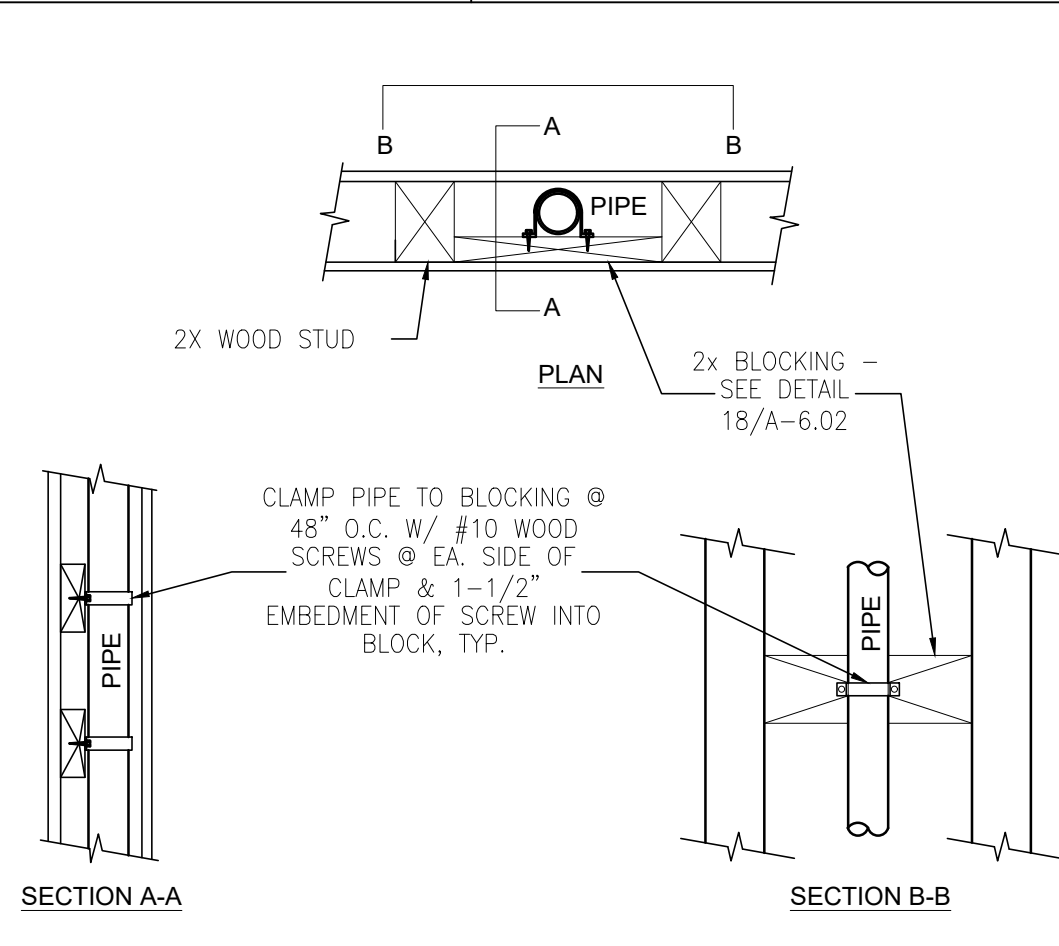
11 FLOOR SINK "FS-1" DETAIL

NTS



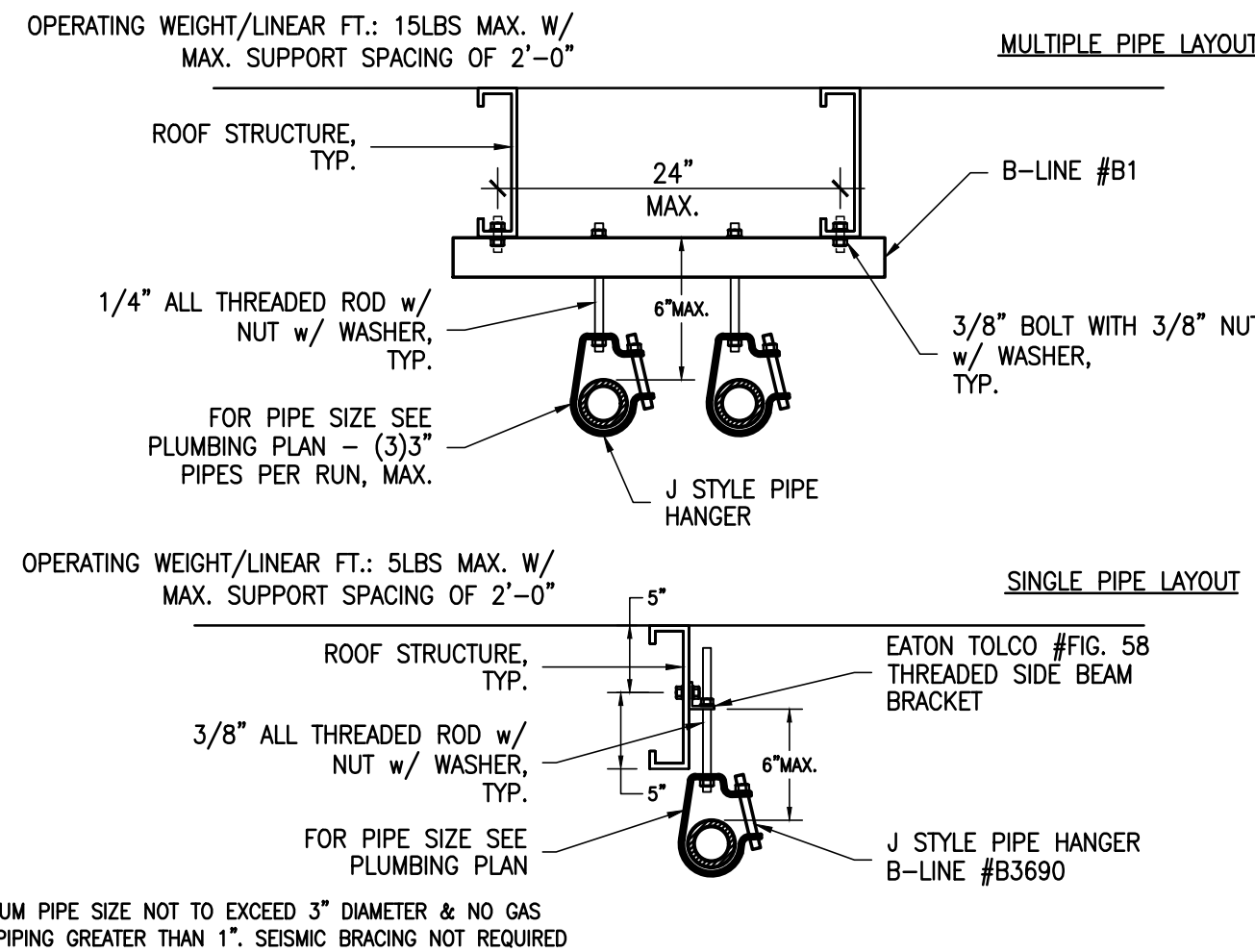
12 AC UNIT gas CONNECTION -TYP.

NTS



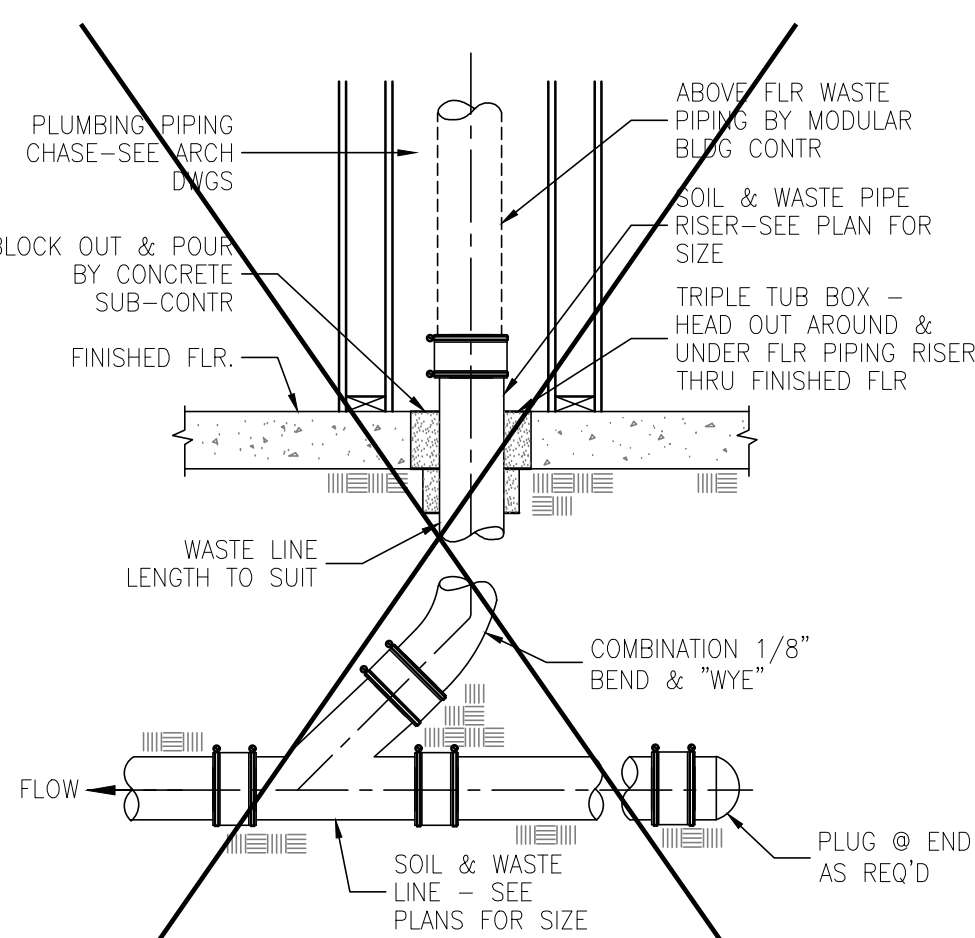
5 PIPE MOUNTING

NTS



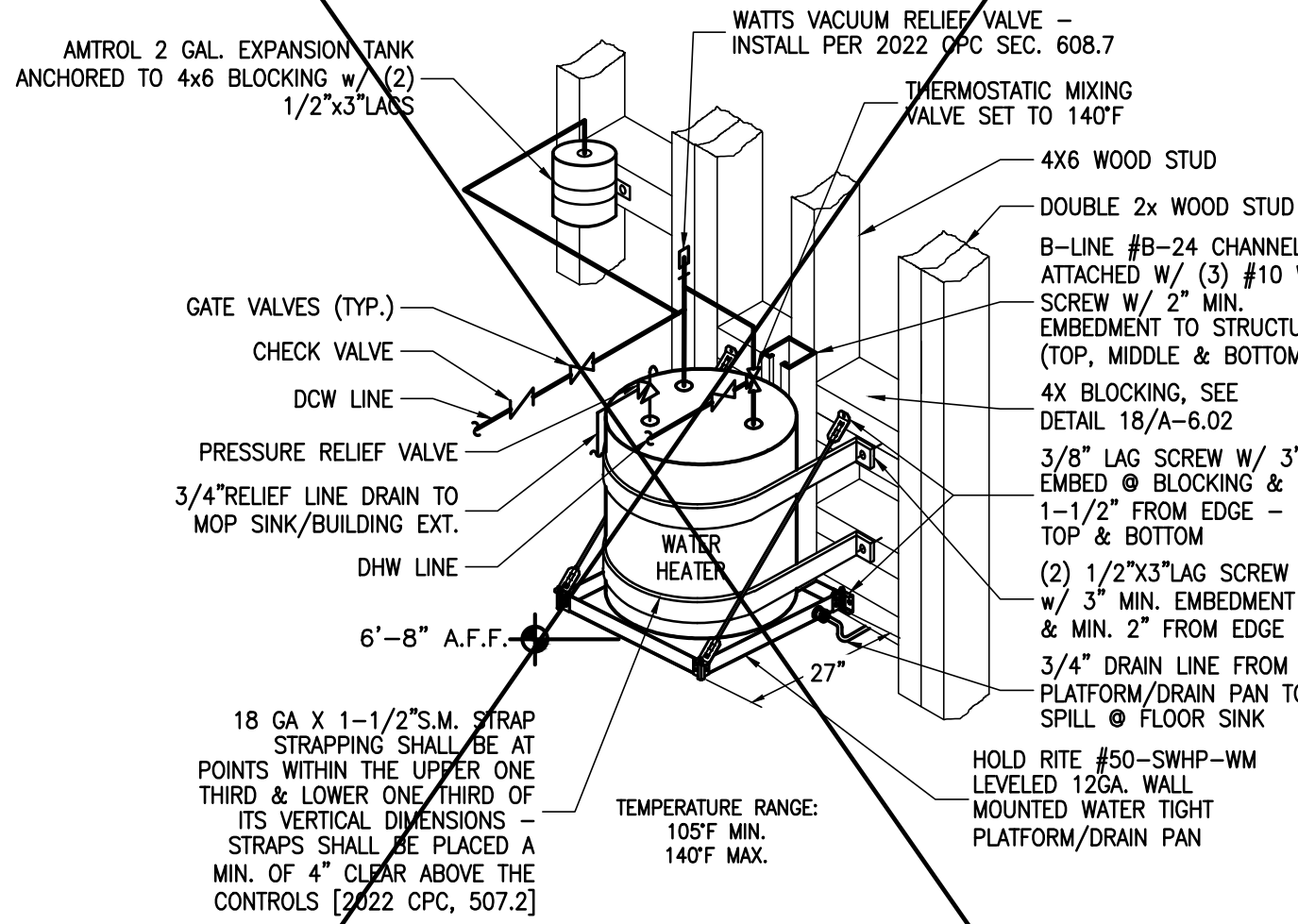
6 PIPE HANGER/SUPPORT

NTS



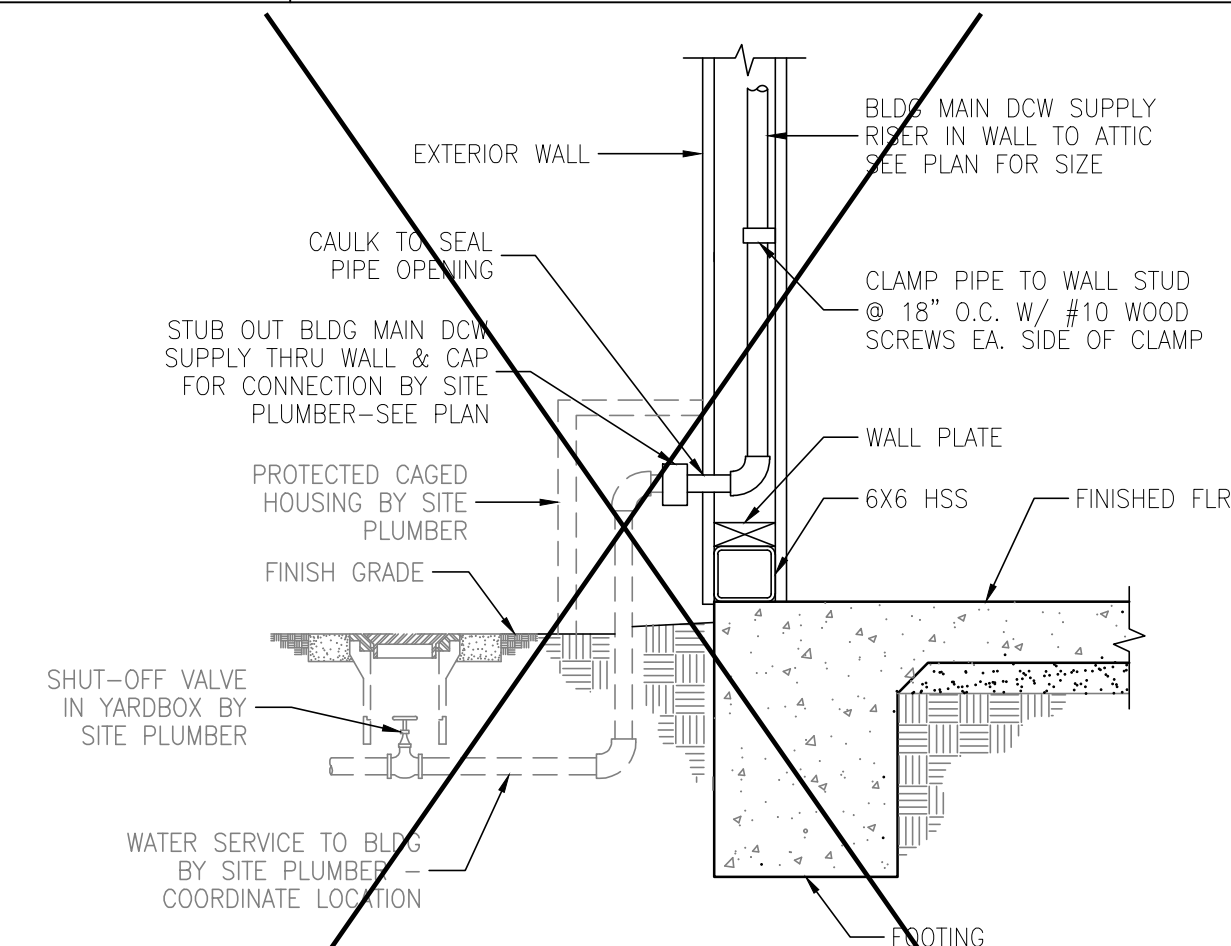
7 S&W PIPE RISER THRU FLR - TYP.

NTS



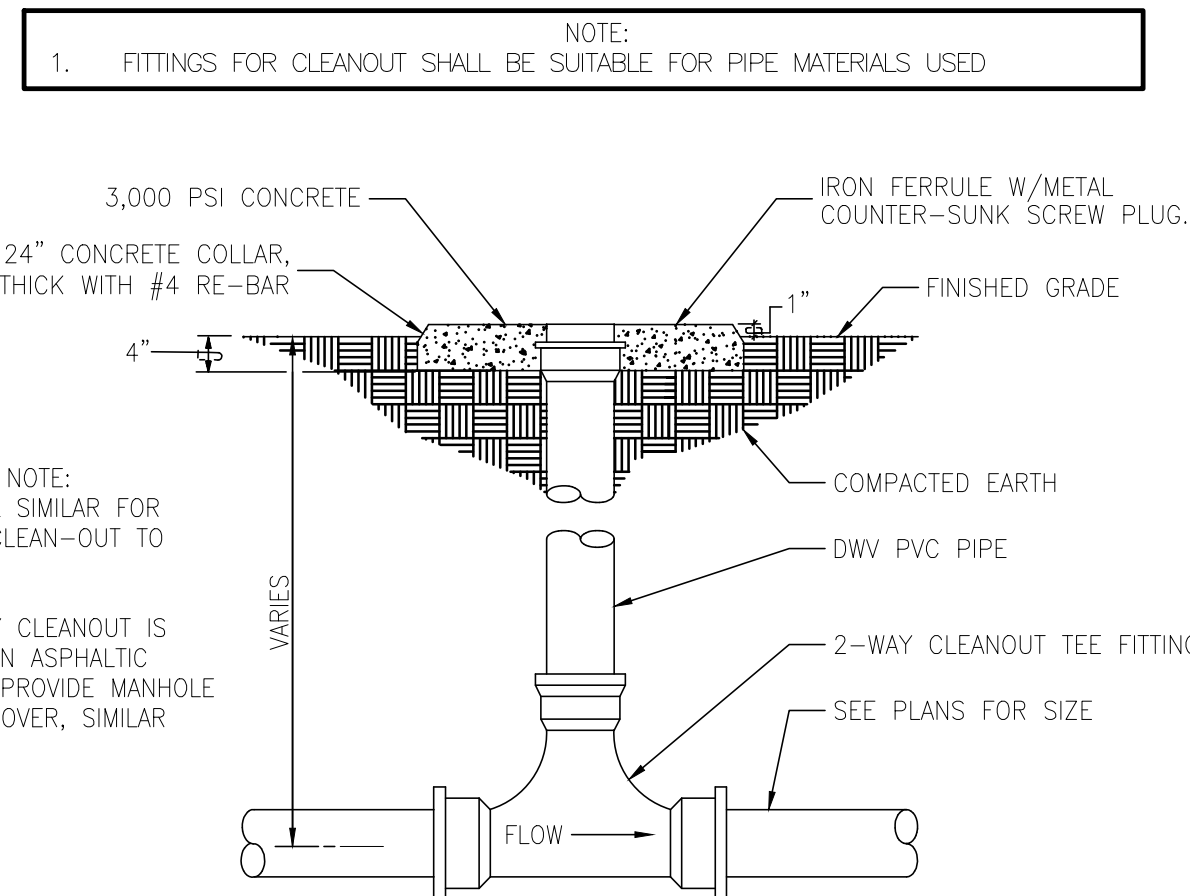
8 WATER HEATER MTG/PIPING

NTS



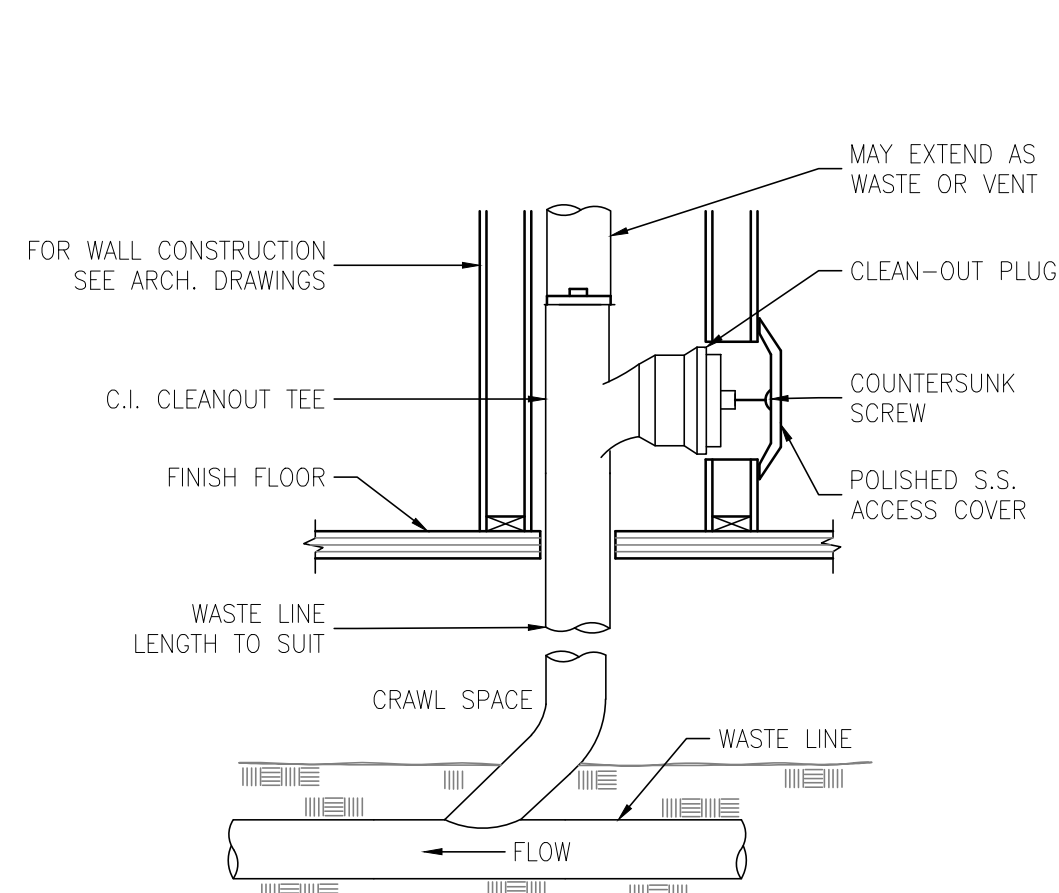
1 BLDG MAIN WATER SUPPLY SOV

NTS



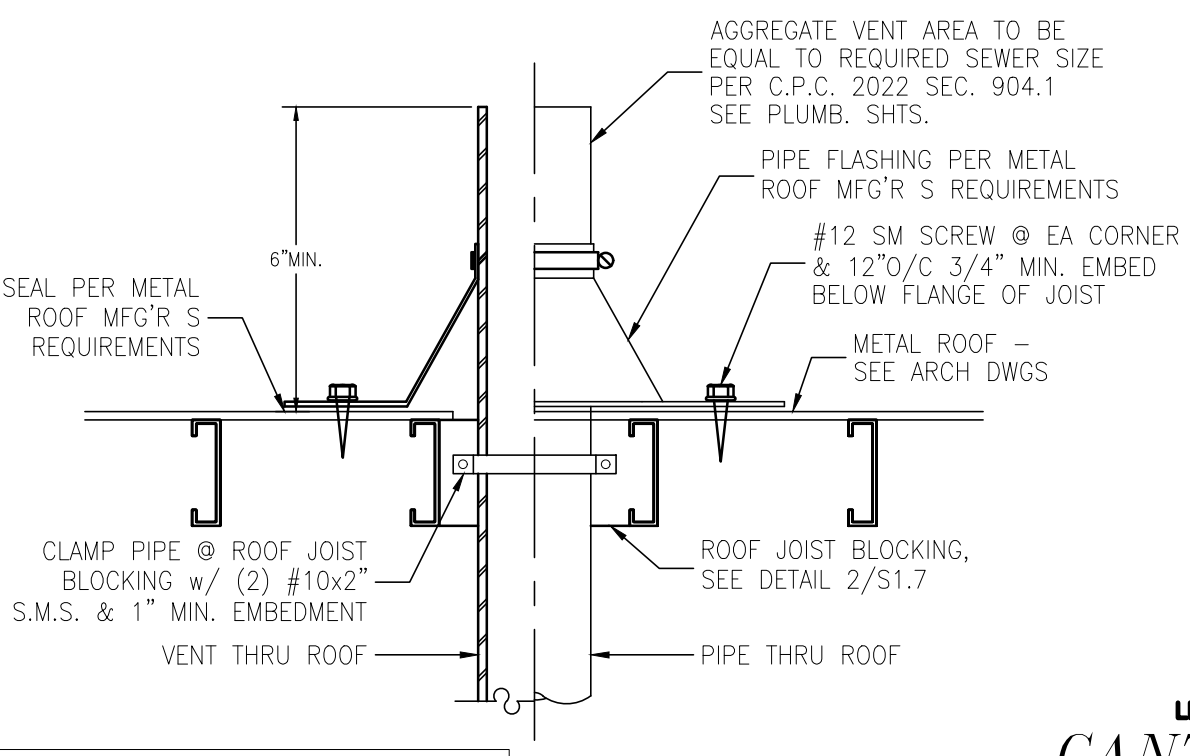
2 2-WAY CLEANOUT TO GRADE - TYP.

NTS



3 WALL CLEANOUT - TYP.

NTS



4 VENT/PIPE THRU ROOF - TYP.

NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124742 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 04/10/2025

APPROVALS
FILE # APPLICATION #



COMMERCIAL
INSTITUTIONAL
AND
RESIDENTIAL
MODULAR
BUILDINGS
DESIGN & PLANNING
7001 Mc Divitt Dr.
Bakersfield, CA 93313
Office: (661) 835-9270
Fax: (661) 847-1007
www.jtsmodular.com

STRUCTURAL ENGINEER OF RECORD
ORION
Structural Engineering, Inc.
11305 Rancho Bernardo Rd., Suite 121
San Diego, CA 92127
PHONE: (658) 678-1074
FAX: (658) 678-1975



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120963 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CG ☒
DATE: 10/10/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
DSA APPLICATION NUMBER
02-120963
A separate project application
for construction is required

MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
PLUMBING DETAILS

DSA APP NO.

















PROJECT NO.
06-0142

DRAWING
P5.01



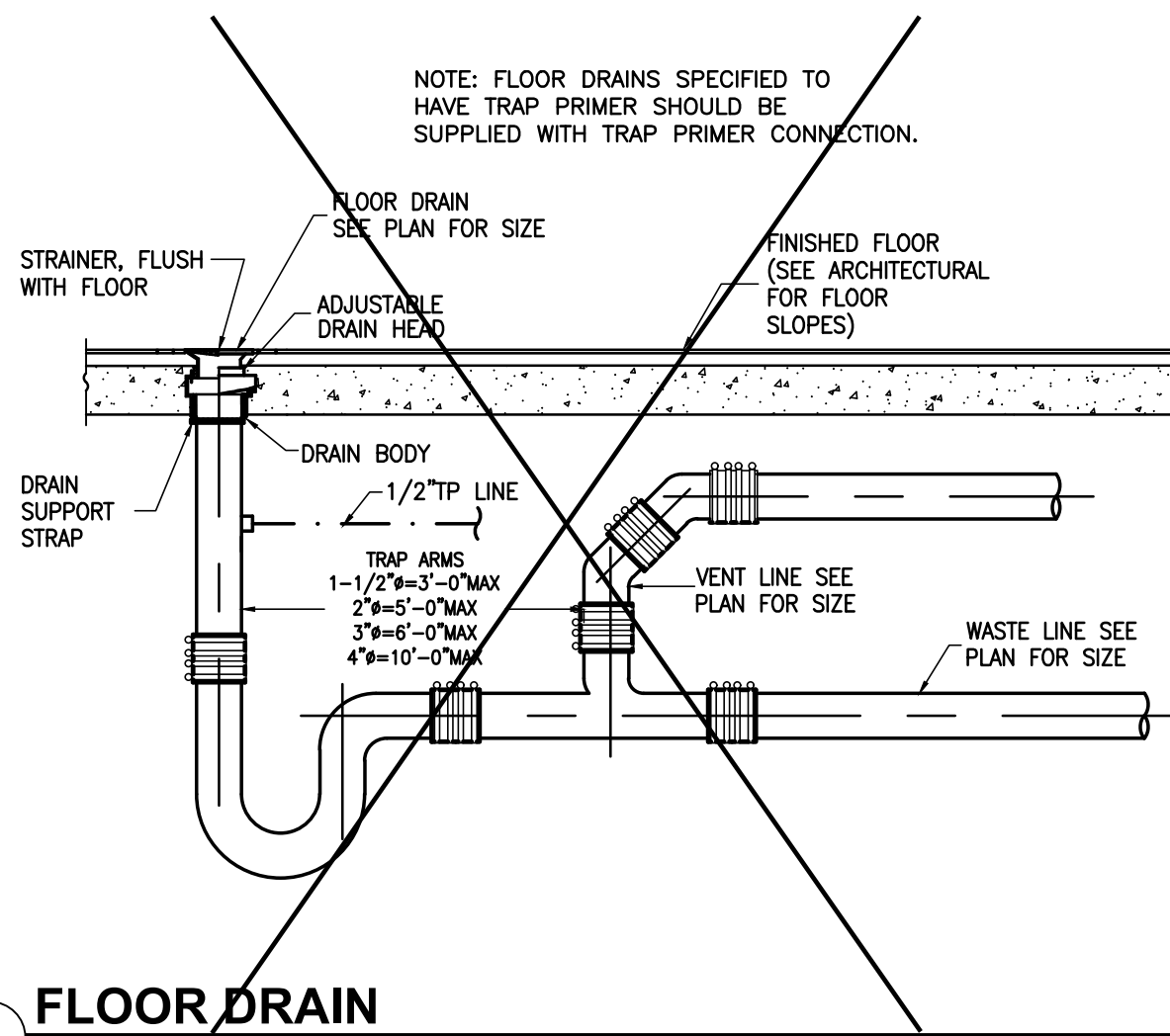
LICENSE #E18218
CANTELM ENGINEERING
2130 F STREET
BAKERSFIELD, CA 93301
TEL: (661) 324-5252
FAX: (661) 324-8439
Cantelmi@Cantelmi.NET
9/12/23

file: S:\DWG\2023\JTS\PC SDG 40 C23-022\PC SDG 40 PLUMB C23-022.dwg date: 9/28/2023 10:04 AM

PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	DCW	DHW	S&W	TRAP	VENT	DESCRIPTION		
	NON ACCESSIBLE FLOOR MNT. WATER CLOSET	1-1/4"	-	4"	INT.	2"	KOHLER #K-96053 ELONGATED FLOOR MOUNTED FLUSH VALVE TOILET SYSTEM 1.28 GPF - BEMIS #1955CT OPEN FRONT SEAT - BOLT CAP KIT - SLOAN #111-1.28 XL MANUAL FLUSH VALVE - SHALL MEET CALGREEN STANDARDS		
	NON ACCESSIBLE WALL HUNG WATER CLOSET	1-1/4"	-	4"	INT.	2"	KOHLER #K-84325 ELONGATED WALL HUNG FLUSH VALVE TOILET SYSTEM 1.28 GPF - BEMIS #1955CT OPEN FRONT SEAT - BOLT CAP KIT - SLOAN #111-1.28 XL MANUAL FLUSH VALVE - JAY R SMITH #0211Y OR #0221Y WALL CLOSET SUPPORT SYSTEM - SHALL MEET CALGREEN STANDARDS		
	FLOOR MNT. WATER CLOSET AGES: 9-12	1-1/4"	-	4"	INT.	2"	KOHLER #K-96053 ELONGATED FLOOR MOUNTED FLUSH VALVE TOILET SYSTEM 1.28 GPF - BEMIS #1955CT OPEN FRONT SEAT - BOLT CAP KIT - SLOAN #111-1.28 XL MANUAL FLUSH VALVE - SHALL MEET CALGREEN STANDARDS - SEE ARCHITECTURAL DETAIL FOR ADA COMPLIANT MAX. HEIGHT		
	FLOOR MNT. ACCESSIBLE ADULT TOILET	1-1/4"	-	4"	INT.	2"	KOHLER #K-96057 ELONGATED FLOOR MOUNTED FLUSH VALVE TOILET SYSTEM 1.28 GPF - BEMIS #1955CT OPEN FRONT SEAT - BOLT CAP KIT - SLOAN #111-1.28 XL MANUAL FLUSH VALVE - SHALL MEET CALGREEN STANDARDS - SEE ARCHITECTURAL DETAIL FOR ADA COMPLIANT MAX. HEIGHT		
	WALL HUNG ACCESSIBLE ADULT TOILET & AGES: 9-12	1-1/4"	-	4"	INT.	2"	KOHLER #K-84325 ELONGATED WALL HUNG FLUSH VALVE TOILET SYSTEM 1.28 GPF - BEMIS #1955CT OPEN FRONT SEAT - BOLT CAP KIT - SLOAN #111-1.28 XL MANUAL FLUSH VALVE - JAY R SMITH #0211Y OR #0221Y WALL CLOSET SUPPORT SYSTEM - SHALL MEET CALGREEN STANDARDS - SEE ARCHITECTURAL DETAIL FOR ADA COMPLIANT MOUNTING HEIGHT		
	PRIMARY FLOOR MNT. WATER CLOSET AGES: 3-4	1-1/4"	-	4"	INT.	2"	KOHLER #K-96064 ELONGATED FLOOR MOUNTED FLUSH VALVE CHILDREN TOILET SYSTEM 1.28 GPF - KOHLER #K-4686 ELONGATED TOILET SEAT - BOLT CAP KIT - SLOAN #111-1.28 XL MANUAL FLUSH VALVE - SHALL MEET CALGREEN STANDARDS - MANUFACTURED FOR KINDERGARTEN W/ MAX. HEIGHT OF 12" A.F.F. TO TOP OF SEAT		
	JUVENILE FLOOR MNT. WATER CLOSET AGES: 5-8	1-1/4"	-	4"	INT.	2"	KOHLER #K-96059 ELONGATED FLOOR MOUNTED FLUSH VALVE JUVENILE TOILET SYSTEM 1.28 GPF - BEMIS #1955CT OPEN FRONT SEAT - BOLT CAP KIT - SLOAN #111-1.28 XL MANUAL FLUSH VALVE - SHALL MEET CALGREEN STANDARDS - MANUFACTURED FOR KINDERGARTEN W/ MAX. HEIGHT OF 15" A.F.F. TO TOP OF SEAT		
	URINAL	1"	-	2"	INT.	2"	KOHLER #K-5452-ET URINAL WALL MOUNTED 1.28 GPF - SLOAN #186-0.125 XL MANUAL FLUSH VALVE - SHALL MEET CALGREEN STANDARDS - SEE ARCHITECTURAL DETAIL FOR ADA COMPLIANT MOUNTING HEIGHT		
	LAVATORY ADA	1/2"	-	2"	1-1/4"	2"	KOHLER "KINGSTON" #K-2005 LAVATORY WALL MTD - VITREOUS CHINA - COLD WATER METERING FAUCET CHICAGO #3400-ABCP - .5 GPM, MIN. 10 SEC. CYCLE TIME, MAX. SLB ACTIVATION - KEENEY #5680PC GRID DRAIN - LAV GUARD2 #101 E-Z PIPING COVER - (1)ANGLE WALL STOP W/ FLEX RISER - KEENEY #305CPBND 1-1/2" 'P' TRAP - PASCO #1226 OR #1230 & #1224 SURE GRIP - BRASS CRAFT MULTI-TURN ANGLE STOP #G2CR19X-C - JR SMITH #0722 WALL FIXTURE SUPPORT - INSULATE WATER SUPPLY & 'P' TRAP - METERING FAUCET SHALL REMAIN OPEN FOR 10 SECONDS MIN. - LAVATORY SHALL BE ADA COMPLIANT & MEET CALGREEN MAX. .5 GPM FLOW RATE (OR EQUAL)		
	LAVATORY ADA	1/2"	1/2"	2"	1-1/4"	2"	KOHLER "KINGSTON" #K-2005 LAVATORY WALL MOUNTED - VITREOUS CHINA - HOT & COLD WATER METERING FAUCET CHICAGO #3600-E2805AB - .5 GPM, MIN. 10 SEC. CYCLE TIME, MAX. SLB ACTIVATION - KEENEY #5680PC GRID STRAINER - (2)ANGLE WALL STOP W/ FLEX RISERS - LAV GUARD2 #102 E-Z PIPING COVER - KEENEY #305CPBND 1-1/2" 'P' TRAP - PASCO #1226 OR #1230 & #1224 SURE GRIP - BRASS CRAFT MULTI-TURN ANGLE STOP #G2CR19X-C - JR SMITH #0722 WALL FIXTURE SUPPORT - ZURN #ZW1070XL THERMOSTATIC MIXING VALVE, VALVE SHALL BE ADJUSTED TO DELIVER A MAXIMUM OF 110°F - INSULATE WATER SUPPLY & 'P' TRAP - VERIFY HOLE DRILLING FOR FAUCET - METERING FAUCET SHALL REMAIN OPEN FOR 10 SECONDS MIN. - LAVATORY SHALL BE ADA COMPLIANT - FAUCET SHALL MEET CALGREEN MAX. .5 GPM FLOW RATE (OR EQUAL)		
	LAVATORY ADA	1/2"	-	2"	1-1/4"	2"	ZURN #Z5340-PED 20"x18" LAVATORY WALL MOUNTED VITREOUS CHINA W/ HALF PEDESTAL - HANGER PLATE & CONCEALED ARM CARRIER SYSTEMS - COLD WATER METERING FAUCET CHICAGO #3400-ABCP - 0.5 GPM, MIN. 10 SEC. CYCLE TIME, MAX. SLBS ACTIVATION - KEENEY #5680PC GRID STRAINER - BRASS CRAFT MULTI-TURN ANGLE STOP #G2CR19X-C - PASCO #1226 OR #1230 & #1224 SURE GRIP - KEENEY #305CPBND 1-1/2" 'P' TRAP - LAV GUARD2 #101 E-Z PIPING COVER INSULATE WATER SUPPLY & 'P' TRAP - JR SMITH #0722 WALL FIXTURE SUPPORT - VERIFY HOLE DRILLING FOR FAUCET - LAVATORY SHALL BE ADA COMPLIANT - FAUCET SHALL MEET CALGREEN MAX. 0.5 GPM FLOW RATE (OR EQUAL)		
	LAVATORY ADA	1/2"	1/2"	2"	1-1/4"	2"	ZURN #Z5340-PED 20"x18" LAVATORY WALL MOUNTED VITREOUS CHINA W/ HALF PEDESTAL - HANGER PLATE & CONCEALED ARM CARRIER SYSTEMS - HOT & COLD WATER METERING FAUCET CHICAGO #3600-E2805AB - 0.5 GPM, MIN. 10 SEC. CYCLE TIME, MAX. SLBS ACTIVATION - KEENEY #5680PC GRID STRAINER - BRASS CRAFT MULTI-TURN ANGLE STOP #G2CR19X-C - PASCO #1226 OR #1230 & #1224 SURE GRIP - KEENEY #305CPBND 1-1/2" 'P' TRAP - LAV GUARD2 #102 E-Z PIPING COVER INSULATE WATER SUPPLY & 'P' TRAP - JR SMITH #0722 WALL FIXTURE SUPPORT - ZURN #ZW1070XL THERMOSTATIC MIXING VALVE, VALVE SHALL BE ADJUSTED TO DELIVER A MAXIMUM OF 110°F - VERIFY HOLE DRILLING FOR FAUCET - LAVATORY SHALL BE ADA COMPLIANT - FAUCET SHALL MEET CALGREEN MAX. .5 GPM FLOW RATE (OR EQUAL)		
	CLASSROOM SINK ADA	3/4"	-	2"	1-1/2"	2"	ELKAY #DRKAD311955 - 19.5"x31"x5.5" - SINGLE COMPARTMENT TYPE 304 STAINLESS STEEL SELF-RIMMING SINK - DEARBORN BRASS #B158 FLAT TOP SINK STRAINER - CHICAGO #350-E35ABCP GOOSENECK SPOUT @ MAX. +36" A.F.F. & MAX. 5" FROM FRONT EDGE OF COUNTERTOP - CHICAGO #748-665TABCP DRINKING FOUNTAIN - KEENEY #305CPBND 1-1/2" 'P' TRAP - PASCO #1226 OR #1230 & #1224 SURE GRIP - BASS CRAFT MULTI-TURN ANGLE STOP #CR1901LRX-C1 - LAV GUARD2 #101 E-Z PIPING COVER INSULATE WATER SUPPLY & 'P' TRAP		
	CLASSROOM SINK	3/4"	3/4"	2"	1-1/2"	2"	JUST #DL-ADA-17537-A-GR 37"x17.5"x5.5" 18 GA. DOUBLE COMPARTMENT TYPE 304 STAINLESS STEEL SINK - HOT & COLD WATER MANUAL FAUCET CHICAGO #786-E2805-5ABCP GOOSENECK SPOUT @ MAX. +36" A.F.F. & MAX. 5" FROM FRONT EDGE OF COUNTERTOP - JUST #J-35 DRAIN - LAV GUARD2 #102 E-Z PIPING COVER INSULATE WATER SUPPLY & 'P' TRAP - ZURN #ZW1070XL THERMOSTATIC MIXING VALVE, VALVE SHALL BE ADJUSTED TO DELIVER A MAXIMUM OF 110°F		
	CLASSROOM SINK	3/4"	3/4"	2"	1-1/2"	2"	JUST #JWH-2524 25"x24"x6" SINGLE COMPARTMENT TYPE 304 STAINLESS STEEL SINK - JUST #J-1176-KS-M-VR GOOSENECK SPOUT @ MAX. +36" A.F.F. & MAX. 5" FROM FRONT EDGE OF COUNTERTOP W/ VANDAL AERATOR AND VANDAL WRIST BLADE HANDLES RESISTANT - JUST #J-100-TO-VR 304 STAINLESS STEEL BUBBLER - JUST #J-ADA-35-SSF-VR STAINLESS STEEL GRID & 'P' TRAP - LAV GUARD2 #102 E-Z PIPING COVER INSULATE WATER SUPPLY & 'P' TRAP - ZURN #ZW1070XL THERMOSTATIC MIXING VALVE, VALVE SHALL BE ADJUSTED TO DELIVER A MAXIMUM OF 110°F		
	MOP SINK	3/4"	3/4"	2"	2"	2"	ZURN #Z6650-D2 28"x28" FLOOR MTD MOP SINK - 6" CURB - FLORESTONE #MR-370 5/8" HOSE & 5' CLAMP - CHICAGO #897-RCF FAUCET W/ VACUUM BREAKER - LOOSE KEY STOPS - LEVER HANDLES - INTEGRAL SHANK-STOPS & RUBBER HOSE W/ HOSE HOOK		
	WATER HEATER	3/4"	3/4"	-	-	-	PATRIOT #PCE 20 10MSA ELECTRIC WATER HEATER 20 GAL - 9 KW @ 208V/3Ø - 240 LBS. OPERATING WEIGHT (VERIFY SITE VOLTAGE PRIOR TO ORDERING) - HOLD RITE QUICK STAND #50-SNHP-WM - WATTS #FLT-140-1000 EXPANSION TANK (OR EQUAL) - MOUNTING OPTIONS: (1) MOUNT WATER HEATER ABOVE MOP SINK (2) MOUNT WATER HEATER ON FLOOR, SEE PLATFORM DETAIL 13/A-6.04		
	NON-FREEZE HOSE BIBB	3/4"	-	-	-	-	WOODFORD #68 - NON-FREEZE INTEGRAL VACUUM BREAKER - DUAL CHECK HYDRANT - RECESSED HOSE BOX - W/ LOCKING DOOR - 1/4TURN CERAMIC FULL FLOW VALVE W/ WHEEL HANDLE & SCREW DRIVER OPERATED STOP		
	MILD CLIMATE HOSE BIBB	3/4"	-	-	-	-	WOODFORD #MB224 - MILD CLIMATE - RECESSED HOSE MODULAR 14GA. BOX SYSTEM W/ LOCKING DOOR - INTEGRAL VACUUM BREAKER - WHEEL HANDLE & INTEGRAL WATER SUPPLY STOP		
	INTERIOR DRINKING FOUNTAIN ADA	1/2"	-	2"	1-1/4"	2"	ELKAY #EZSTLBSWLBK BI-LEVEL WATER COOLER PUSH BAR ACTIVATED - 8 GPM - 4 AMPS @ 115V/60HZ (OR EQUAL)		
	EXTERIOR DRINKING FOUNTAIN ADA	1/2"	-	2"	1-1/4"	2"	HANS #1119-1920 ADA BI-LEVEL WATER COOLER PUSH BAR ACTIVATED BARRIER FREE ACCESS W/ BOTTLE FILLER - 8 GPM - 4 AMPS @ 115V/60HZ W/ #MPW200 WALL BRACKET (OR EQUAL)		
	TRAP PRIMER	1/2"	-	-	-	-	PRECISION PLUMBING #PK-500 "PRIME RITE" PRESSURE DROP ACTIVATED - DISTRIBUTION UNIT #DU-U - ELMODR ACCESS DOOR #DW12-X12" - PRIMER LINE BELOW FLOOR TO FLOOR DRAIN/SINK (MAX. 4 FLOOR DRAINS PER TRAP PRIMER)		
	ROOF DRAIN	-	-	3"	-	-	TECH SPECIALTIES FRANK PATTERN #850-3N 3"x3" COMBINATION ROOF DRAIN & OVERFLOW - NO HUB		
	FLOOR DRAIN	-	-	2"	1/2"	2"	TECH SPECIALTIES FRANK PATTERN #N702W5375R 7"ADJUSTABLE FLOOR DRAIN W/ MEMBRANE CLAMP - 6" ROUND GRATE - NO HUB - 2" DRAIN - TRAP PRIMER CONNECTION - FLOOR DRAIN OPENINGS SHALL BE 1/2" MAX.		
	SHOCK ABSORBER	-	-	-	-	-	ZURN #Z1700 SHOCK ABSORBER - SERIES SIZED PER MANUFACTURER'S REQUIREMENTS		
	INSTANT ELECTRIC HEATER	1/2"	1/2"	-	-	-	EEMAX #SPEX3208 SINGLE POINT ELECTRIC TANKLESS WATER HEATER - 2 GPM - OUTLET TEMPERATURE 105°-110° BRAIDED STAINLESS STEEL FLEX CONNECTORS - 3.0KW - 15 AMPS @ 208V/1Ø (OR EQUAL) - LOCATE CLEAR OF REQUIRED KNEE & TOE CLEARANCE WHERE OCCURS @ SINKS & LAVS. - SEE DETAIL 10/P5.01		
	FLOOR SINK	-	-	2"	1/2"	2"	WATTS #FS-730-2-NH FLOOR SINK - CAST IRON - DOME BOTTOM STRAINER - DOUBLE DRAINAGE FLANGE - NO HUB OUTLET - 2" CONNECTION		
	TEMP CONTROL VALVE	3/4"	1"	-	-	-	SYMMONS #7-400-W TEMPCONTROL VALVE THERMOSTATIC MIXING VALVE - 1/4" INLETS AND 1" OUTLET - SIMVEL ACTION CHECK STOPS - REMOVABLE CARTRIDGE WITH VOLUME CONTROL - SHUT-OFF VALVE - DIAL THERMOMETER - STAINLESS STEEL PISTON AND LIQUID FILL THERMAL MOTOR BELLOWS ELEMENT MOUNTED OUT OF WATER - STD. ROUGH BRONZE FINISH - WALL MOUNTING BRACKET VACUUM BREAKER - VALVE SHALL BE ADJUSTED TO DELIVER A MAXIMUM OF 140°F		
	CONDENSATE PUMP	-	-	-	-	-	LITTLE GENT CONDENSATE PUMP #VCMA-20UL DISCHARGE SIZE 3/8" OD BARBED 1/30HP 115V 60HZ 1.5AMPS 93W 5 LBS		
	CIRCULATING PUMP	-	3/4"	-	-	-	GRUNDFOS #UPS15-55SFC STAINLESS STEEL DOMESTIC HOT WATER IN-LINE CIRCULATING PMP - FLANGED CONNECTIONS - 3-SPEED MOTOR - INTEGRAL CHECK VALVE - 5GPM @ 13'-0" - 1/12 HP - 120V/1PH		

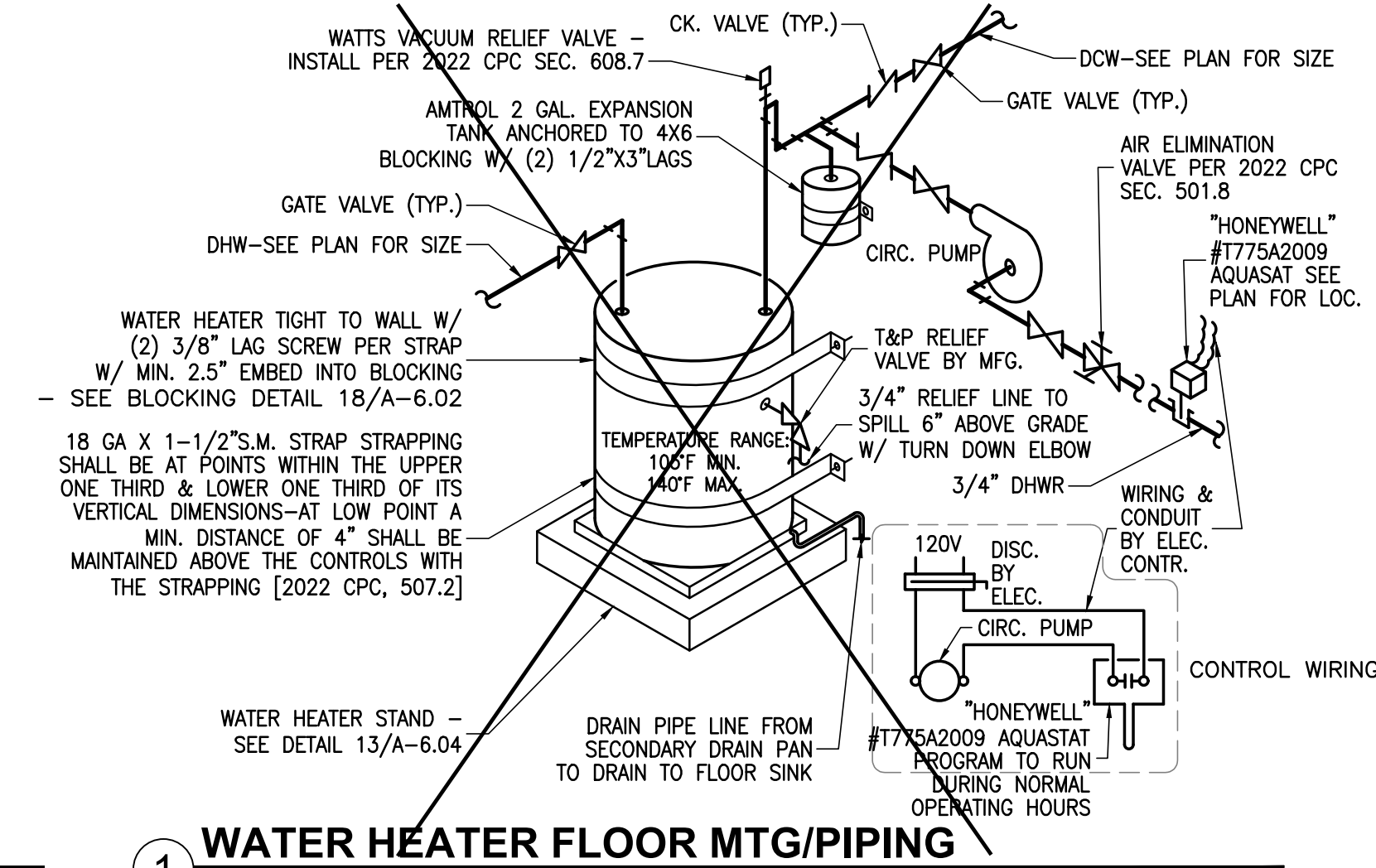
4 NTS

FLOOR DRAIN



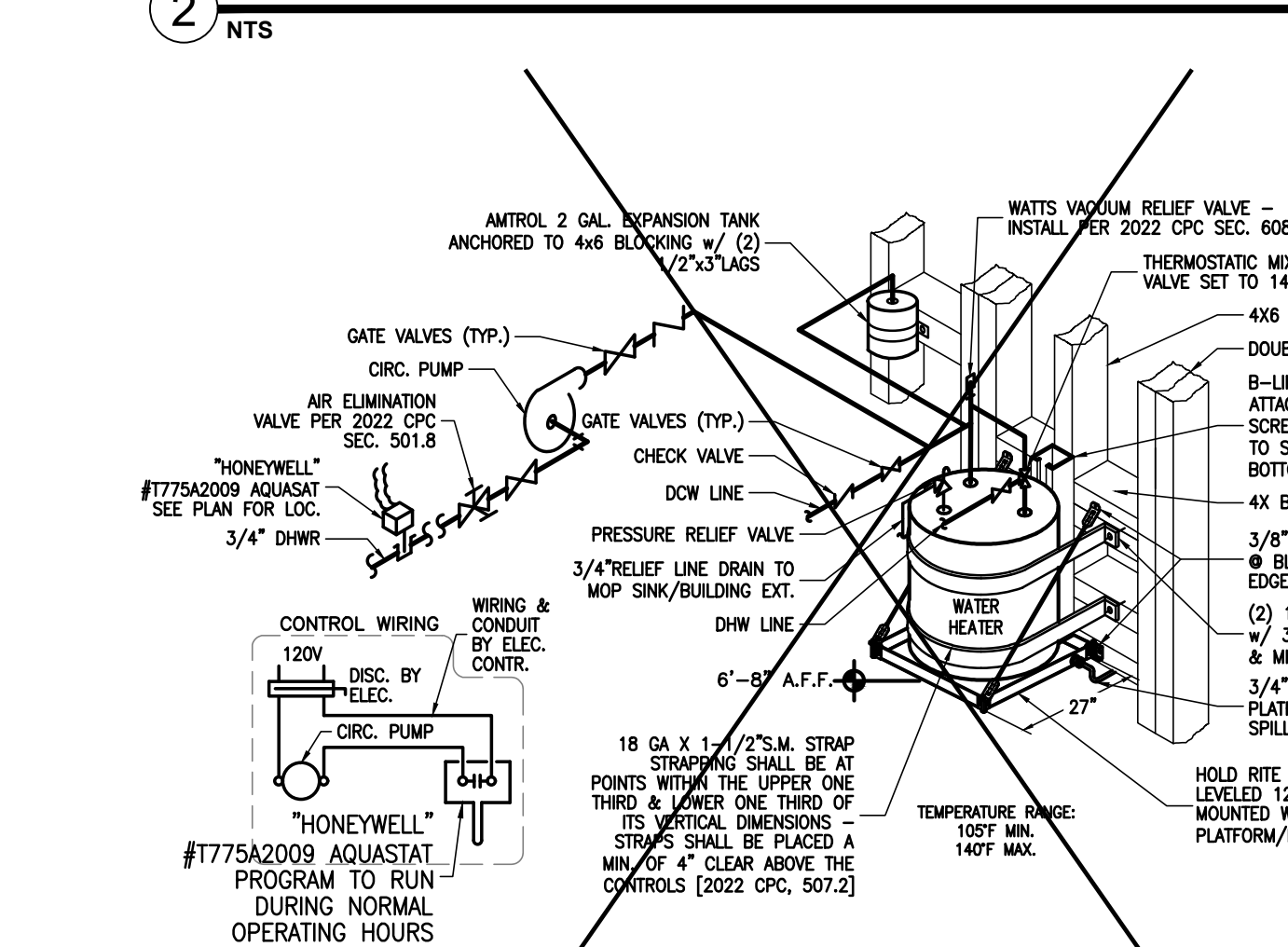
1 NTS

WATER HEATER FLOOR MTG/PIPING



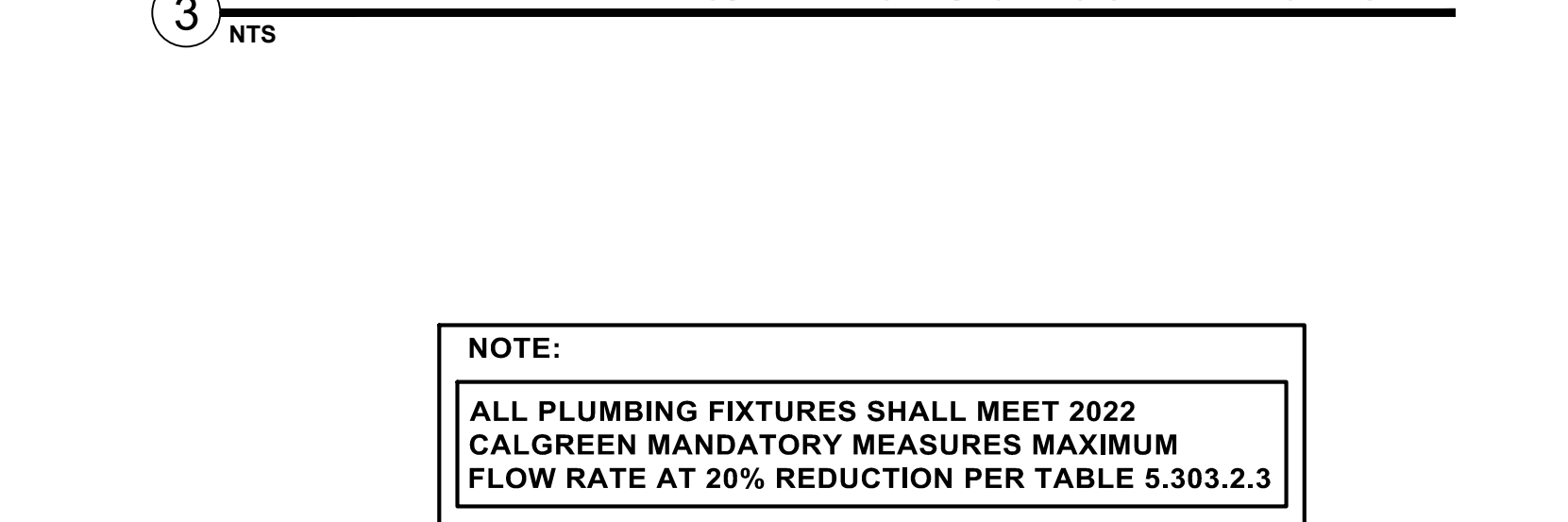
2 NTS

CONDENSATE LINE FROM HVAC



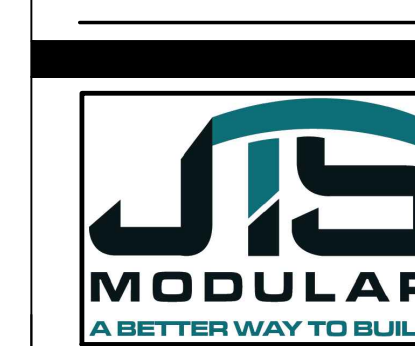
3 NTS

WATER HEATER MTG/PIPING w/ CIRCULATING PUMP



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124742 INC:
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SS ☒ FLS ☒ ACS ☒
DATE: 04/10/2025

APPROVALS
FILE # APPLICATION #



COMMERCIAL
INSTITUTIONAL
AND
RESIDENTIAL
MODULAR
BUILDINGS
DESIGN & PLANNING
7001 Mc Divitt Dr.
Bakersfield, CA 93313
Office: (661) 835-9270
Fax: (661) 847-1007
www.jtsmodular.com

STRUCTURAL ENGINEER OF RECORD
ORION
Structural Engineering, Inc.
11905 Rancho Bernardo Rd., Suite 121
San Diego, CA 92127
PHONE: (658) 678-1974
FAX: (658) 678-1975



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120983 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CG ☒
DATE: 10/10/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
DSA APPLICATION NUMBER
02-120983
A separate project application
for construction is required

MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
PLUMBING SCHEDULE

DSA APP NO.
PROJECT NO.
06-0142
DRAWING
P5.02
LICENSE #E18218
CANTELM
ENGINEERING
2130 F STREET
BAKERSFIELD, CA 93301
TEL: (661) 324-5252
FAX: (661) 324-8439
Cantelmi@Cantelmi.NET
9/28/23

\\JTS-215 Design Standards\2025\12-20\DWG\25-000\25-000.dwg 12/20/25 12:00 PM 12/20/25 12:00 PM 12/20/25 12:00 PM

JTS Modular, Inc
Construction Waste Management Plan

Project Name:
Job #:
Project Manager:
Waste Hauling Company:
Contact Name:

All contractors/subcontractors shall comply with the project's Construction Waste Management Plan.
All contractors/subcontractors foreman shall sign the CWM Plan acknowledgment Sheet.

Contractors/Subcontractors who fail to comply with the Waste Management Plan will be subject to back charges or withholding of payment, as deemed appropriate. For instance, contractors/subcontractors who contaminate debris boxes that have designated for a single material type will be subject to back charge or withheld payment, as deemed appropriate.

1. The project's overall rate of waste diversion will be \geq 65%
2. This project shall generate the least amount of waste possible by planning and ordering carefully, following all proper storage and handling procedures to reduce broken and damaged materials and reusing materials whenever possible. The majority of the waste that is generated on the jobsite will be diverted from the landfill and recycled for other use.
3. Spreadsheet 1, enclosed, identifies the waste materials that will be generated on this project, the diversion strategy for each waste type and the anticipated diversion rate.
4. Waste prevention and recycling activities will be discussed at the beginning of weekly subcontractor meetings. As each new subcontractor comes on-site, the WMP coordinator will present him/her with a copy of CWM Plan and provide a tour of the jobsite to identify materials to be salvaged and the procedures for handling jobsite debris. All subcontractor foreman will acknowledge in writing that they have read and will abide by the SWM Plan. Contractor/Subcontractor acknowledgement sheet is attached. The CWM plan will be posted at the jobsite trailer.
5. Salvage: Excess Materials that cannot be used in any project, nor returned to the vendor, will be offered to site workers, the owner, or donated to charity if feasible.
6. (Hauling Company) will provide a commingled drop box at the jobsite for most of the construction waste. These commingled drop boxes will be taken to (Sorting Facility Name, and Location). The average diversion rate for commingled waste will be \geq 65%. As site conditions permit, additional drop boxes will be used for particular phases of construction (e.g., concrete and wood waste) to ensure the highest waste diversion rate possible.
7. In the event that the waste diversion rate achievable via the strategy described in (6) above, is projected to be lower than what is required, then a strategy of source-separated waste diversion and/or waste stream reduction will be implemented. Source separated waste refers to jobsite waste that is not commingled but is instead allocated to a debris box designated for a single material type, such as clean wood or metal.

NOTES:

1. Waste stream reduction refers to efforts taken by the builder to reduce the amount of waste generated by the project to below four (4) pounds per square foot of building area.
2. When using waste stream reduction measures, the gross weight of the product is subtracted from a base weight of four (4) pounds per square foot of building area. This reduction is considered additional diversion and can be used in the waste reduction percentage calculations.
8. (Hauling Company) will track and calculate the quantity (in tons) of all waste leaving the project and calculate the waste diversion rate for the project. (Hauling Company) will provide Project Manager with an updated monthly report on gross weight hauled and the waste diversion rate being achieved on the project. (Hauling Company's) monthly report will track separately the gross weights and diversion rates for commingled debris and for each source-separated waste stream leaving the project. In the event that (Hauling Company) does not service any or all of the debris boxes on the project, the (hauling company) will work with the responsible parties to track the material type and weight (in tons) in such debris boxers in order to determine waste diversion rates for these materials.
9. In the event that contractor/subcontractors furnish their own debris boxes as part of their scope of work, such contractors/subcontractors shall not be excluded from complying with the CWM Plan and will provide (Hauling Company) weight and waste diversion data for their debris boxes.
10. In the event that site use constraints (such as limited space) restrict the number of debris boxes that can be used for collection of designated waste the project superintendent will, as deemed appropriate, allocate specific areas onsite where individual material types are to be consolidated. These collection points are not to be contaminated with non-designated waste types.
11. Debris from jobsite office and meeting rooms will be collected by (Disposal Service Company). (Disposal Service Company) will, at a minimum, recycle office paper, plastic, metal, and cardboard.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124742 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 04/10/2025

APPROVALS
FILE # APPLICATION #



COMMERCIAL
INSTITUTIONAL
AND
RESIDENTIAL
MODULAR
BUILDINGS
DESIGN & PLANNING
7001 Mc Divitt Dr.
Bakersfield, CA 93313
Office: (661) 835-9270
Fax: (661) 847-1007
www.jtsmodular.com

STRUCTURAL ENGINEER OF RECORD
ORION
Structural Engineering, Inc.
11305 Rancho Bernard RD., Suite 121
San Diego, CA 92127
PHONE (658) 678-1074
FAX (658) 678-1075



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120983 PC
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SS ☒ FLS ☒ ACS ☒ CS ☒
DATE: 10/10/2023

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
DSA APPLICATION NUMBER
02-120983
A separate project application
for construction is required

MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
WASTE MGMT. PLAN

DSA APP NO.

PROJECT NO.
06-0142

DRAWING
WM-1.00