



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI PREAPPROVAL OF
MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0749

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: ☒ New ☐ Renewal/Update

Manufacturer Information

Manufacturer: Neopod Systems

Manufacturer's Technical Representative: Michael Miller

Mailing Address: 7850 Old Bastrop Rd, New Braunfels, TX 78130

Telephone: (512) 987-0097

Email: mmiller@neopodsystems.com

Product Information

Product Name: BPR01

Product Type: Factory Build Bathroom POD

Product Model Number: BPR01

General Description: Patient Bathroom Shower

Applicant Information

Applicant Company Name: Neopod Systems

Contact Person: Michael Miller

Mailing Address: 7850 Old Bastrop Rd, New Braunfels, TX 78130

Telephone: (512) 987-0097

Email: mmiller@neopodsystems.com

Title: VPO

"A healthier California where all receive equitable, affordable, and quality health care"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





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Registered Design Professional Preparing Engineering Recommendations

Company Name: FICCADENTI WAGGONER AND CASTLE STRUCTURAL ENGINEERS

Name: Michael Waggoner

California License Number: S3738

Mailing Address: 16969 Von Karmen, Suite 240, Irvine, CA 92614

Telephone: (949) 474-0502

Email: Mwaggoner@fwcse.com

HCAI Special Seismic Certification Preapproval (OSP)

☐ Special Seismic Certification is preapproved under OSP

OSP Number: _____

Certification Method

Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-16

☐ Other(s) (Please Specify): _____

*Use of criteria other than those adopted by the California Building Standards Code, 2022 (CBSC 2022) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2022 may be used when approved by HCAI prior to testing.

☒ Analysis

☐ Experience Data

☐ Combination of Testing, Analysis, and/or Experience Data (Please Specify): _____

HCAI Approval

Date: 1/20/2025

Name: William Staehlin

Title: Senior Structural Engineer

Condition of Approval (if applicable): _____

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

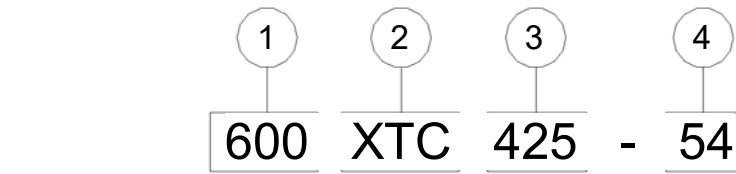
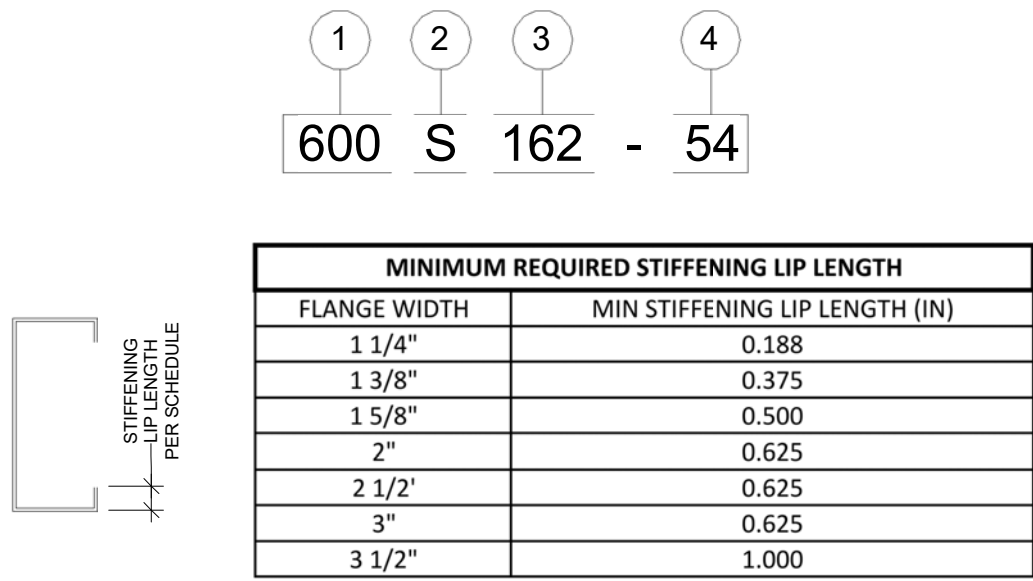


AB ANCHOR BOLT
 ABV ABOVE
 ACI ASPHALTIC CONCRETE
 ADD ADDITIONAL
 AISI AMERICAN INSTITUTE OF STEEL CONSTRUCTION
 AISI AMERICAN NON AND STEEL INSTITUTE
 ANI AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
 ALT ALTERNATE
 ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
 ARCH ARCHITECTURE
 ARCHL ARCHITECTURAL
 ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS
 AWPA AMERICAN WOOD PRESERVERS ASSOCIATION
 AWS AMERICAN WELDING SOCIETY
 AT AT
 BLDG BUILDING
 BLK BLOCK
 BLM BLOCKING
 BLW BELOW
 BEAM BEAM
 BOT OR B BOTTOM
 BN BOUNDARY NAILING
 BRG BRACING
 BRG BEARING
 BS BOTH SIDES
 BWTN BETWEEN
 C CHANNEL OR CAMBER
 CB CANTILEVER
 CIRC CIRCULAR BUILDING CODE
 CO OR C/C CENTER
 CEN CONTINUOUS EDGE NAILING
 CFSF COLD FORMED STEEL FRAMING
 CFI CFAST IN PLACE
 CLJ CONNECTION JOINT, CONTROL JOINT, OR CEILING JOINT
 CLG CEILING
 CLR CLEAR LINE
 CMU CONCRETE MASONRY UNIT
 COLU COLUMN
 CONC CONCRETE
 CONN CONNECTION
 CONST CONSTRUCTION
 CONT CONTINUOUS
 CONTR CONTRAST
 CR COLD ROLLED
 DBL DISCONTINUOUS EDGE NAILING
 DEN DETAIL
 DET DETAIL
 DIA OR Ø DIAMETER
 DIR DIRECTION
 DF DOUGLAS FIR
 DECK DECK
 DJ DECK JOIST
 DL DOWN SLOAD
 DN DOWN
 DDT DITTO
 DS DOWN PITCH
 DWG DRAWING
 DWL DRAIN
 EE EACH
 ECH EACH END
 EF EXPANSE
 EFJ EXPANSE JOINT
 ELECTL ELECTRICAL
 ELEV ELEVATION
 EOS EDGE OF SLAB
 EQ EQUAL
 EQUIP EQUIPMENT
 ECH EACH SIDE
 EW EACH WAY
 EXIST EXISTING
 EXP EXPANSION
 EXT EXTERIOR
 FND FOUNDATION
 FF FINISH FLOOR
 FG FINISH GRADE
 FH FULL HEIGHT
 FIN FINISH
 FJ FLOOR JOIST
 FL FLANGE
 FLR FLOOR
 FN FIELD NAILING
 FOC FACE OF CONCRETE
 FOM FACE MASONRY
 FOS FACE OF STUD
 FP FULL PENETRATION
 FRM FRAMING
 FS FAR SIDE
 FT FEET OR FOOT
 FTG FOOTING
 GA GAUGE
 GALV GALVANIZED
 GLB GUL-LUM BEAM
 GR GRADE
 GYP BD GYPSUM BOARD
 HZ HORIZONTAL
 HDR HANGER
 HCR HORIZONTAL
 HCR HORIZONTAL
 HSB HIGH STRENGTH BOLT
 HSJ HOLLOW STRUCTURAL SECTIONS
 HT HEIGHT
 I INTERNATIONAL BUILDING CODE
 ICB INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
 IDO INSIDE DIAMETER
 IN INCH OR INCHES
 INSUL INSULATION
 INV INVERTED/INVERT
 J JOINT
 JST JOIST
 K KIP (1000 LBS)
 L LOW
 LB POUND
 LG LENGTH OR LONG
 LVE LIVE LOAD
 LLH LONG LEG HORIZONTAL
 LLV LONG LEG VERTICAL
 LONGIT LONGITUDINAL
 LT LENGTH
 LT WT LENGTH WEIGHT
 LV LEVEL
 MANUF MANUFACTURER
 MAS MASONRY
 MATL MATERIAL
 MAX MAXIMUM
 MB MACHINE BOLT
 MC MISCELLANEOUS CHANNEL
 MECHL MECHANICAL
 MEZZ MEZZANINE
 MIN MINIMUM
 MISSL MISCELLANEOUS
 MTL METAL
 NC NOT IN CONTRACT
 NOM NORMAL
 NS NEAR SIDE
 NSFC NOT SHOWN FOR CLARITY
 NTS NOT TO SCALE
 NR NUMBER
 OR OR
 O OR
 OC OR CENTER
 OD OUTSIDE DIAMETER
 OPH OPPOSITE HAND
 OPNG OPENING
 OS OPPOSITE SIDE
 OSH OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD
 OSHPD OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
 P PARALLEL
 P PERP OR ⊥ PERPENDICULAR
 PC PRECAST
 PG PLATE ORDER
 PJ PLUMBING
 PL PLATE OR PROPERTY LINE
 PLUMBG PLUMBING
 PNT PARTIAL PENETRATION
 PSF POUNDS PER SQUARE FOOT
 PSI POUNDS PER SQUARE INCH
 PT TENSIONED OR PRESSURE TREATED
 PWJ RADIALLY WELDED JOINT
 R OR RAFT RAFTER
 RAD RADIUS
 RD ROOF DRAIN
 REINF REINFORCED
 REM REMAINDER
 REQD REQUIRED
 ROOF ROOF
 ROOF ROOF RAFTER
 RS ROOF TRUSS
 SEC STANDARD BUILDING CODE
 SELF SELF-SEALING, SELF-TAPPING SCREWS
 SECTION SECTION
 SHT SHEET
 SIM SIMILAR
 SMS SIMILAR METAL SCREW
 SPCS SPACING
 SPEC SPECIFICATION
 SOG SLAB ON GRADE
 SQ SQUARE
 SS STAINLESS STEEL OR SELECT STRUCTURAL
 STAGG STAGGERED
 STD STANDARD
 STIFF STIFFENER
 STL STEEL
 STRUCTL STRUCTURAL
 SUSP SUSPENDED
 SYM SYMMETRICAL
 T TOP
 T & B TOP AND BOTTOM
 T & G TONGUE AND GROOVE
 THK THICK
 TOC TOP OF CONCRETE
 TOF TOP OF FOOTING
 TOS TOP OF STEEL
 TRANS TRANSVERSE
 TRS STRUCTURAL STEEL TUBE
 TSG TAPERED STEEL GIRDER
 TYP TYPICAL
 UNO UNIFORM BUILDING CODE
 UNL UNLESS NOTED OTHERWISE
 UT ULTRASONIC TEST
 V VERTICAL
 VERT VERTICAL
 W WITH
 W/ WITHOUT
 WGS WOOD CHORD STEEL WEB
 WGS WOOD GRADE
 WWS WELDED THREADED STUDS
 WWF WELDED FABRIC
 WP WORK POINT
 X-STRX EXTRA STRONG
 XX-STR DOUBLE EXTRA STRONG

SHEET INDEX	
Sheet Number	Sheet Name
S0.0	General Notes
S1.0	Structural Floor Plan
S1.1	Structural Ceiling Plan
S2.0	Additional Details
S2.1	Additional Details
S2.2	Additional Details

STUD IDENTIFICATION SHALL BE AS SHOWN:

- | | |
|---|---|
| 1 | <p>MEMBER DEPTH:
 EXAMPLE: D = 600/10 INCHES.
 ALL MEMBER DEPTHS ARE TAKEN IN 1/10 INCHES.
 FOR ALL "T" SECTIONS, MEMBER DEPTHS IS THE INSIDE TO INSIDE DIMENSION.</p> |
| 2 | <p>STYLE:
 EXAMPLE: S=2
 THE FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR SYSTEM ARE:
 S = STYLE
 T = TRACK
 U = CHANNEL SECTIONS
 F = FURNISH CHANNEL SECTIONS</p> |
| 3 | <p>FLANGE WIDTH:
 EXAMPLE: 1/50" = 1 625" = 162/100 INCHES.
 ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.</p> |
| 4 | <p>MATERIAL THICKNESS:
 EXAMPLES: 0.054" = 54 MIL, 1 MIL = 1/1000 INCHES
 MATERIAL THICKNESS IS IN MILS FOR ALL BASE METAL THICKNESS IN MILLS.
 MINIMUM BASE METAL THICKNESS REPRESENTS 90% OF THE DESIGN THICKNESS</p> |



- 1 **MEMBER DEPTH (WIDTH):**
SEE ADDITIONAL INFORMATION ABOVE.
FOR ALL "X" & "XTC" SECTIONS, MEMBER DEPTH IS THE INSIDE TO INSIDE DIMENSION
 - 2 **STYLE:**
X = PRO-X OUTER
XT = PRO-X INSERT
XTC = PRO-X COMBO
CLIP = PRO-X CLIP
 - 3 **FLANGE WIDTH:**
SEE ADDITIONAL INFORMATION ABOVE.
 - 4 **MATERIAL THICKNESS:**
SEE ADDITIONAL INFORMATION ABOVE.

1. EXPANSION ANCHORS INTO CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH THE ICC E-1000 EMBEDMENT GUIDE AND THE MANUFACTURER'S RECOMMENDATIONS.
2. ACCEPTABLE TEST METHODS (CIR 1910A.5)
- TORQUE WRENCH METHOD: ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST MEET THE TORQUE SPECIFIED IN THE TABLE BELOW WITHIN 1/2 TURN OF THE NUT OR WASHER.
- | ANCHOR TYPE AND DIA. | MIN. EMBED | NWC | TORQUE LOAD (lb-ft) |
|-----------------------------|------------|-----|---------------------|
| 3/8" Ø HILTI HIT-TEC | 2 1/2" | 30 | 30 |
| 3/8" Ø DOWAL POWER-LOCK-SO2 | 2 1/2" | 30 | 20 |
| 3/8" Ø SIMPSON STRONG-BOLT | 2 1/2" | 30 | 30 |
| 1/2" Ø HILTI HIT-TEC | 2 1/2" | 30 | 30 |
| 1/2" Ø DOWAL POWER-LOCK-SO2 | 2 1/2" | 40 | 40 |
| 1/2" Ø SIMPSON STRONG-BOLT | 2 1/2" | 60 | 60 |
- NOTE: TORQUE LOADS AS REQUIRED PER CIR 1910A.5.2
3. TEST FREQUENCY
- TEST 10% OF ALL ANCHORS INSTALLED INTO THE SILL OF FULL HEIGHT WALLS (CIR 1910A.5.3)
 - TEST 10% OF ALL ANCHORS INSTALLED INTO THE TOP OF FULL HEIGHT WALLS AS IDENTIFIED ON THE DRAWINGS (CIR 1910A.5.3)
 - TEST 50% OF ALL ANCHORS AT ALL OTHER LOCATIONS (CIR 1910A.5.3)
4. IF AN ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE INSTALLED BY THE SAME CONTRACTOR WITHIN TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN REPEAT THE INITIAL TEST FREQUENCY (CIR 1910A.5.1)

ANCHOR TYPE AND DIA.	MIN. EMBED.	TORQUE LOAD (ft.-lb.)	
		NWC	LWC
3/8" Ø HILTI KB-T22	2 1/2"	30	20
3/8" Ø DEWALT POWERSTUD-SD2	2 1/2"	30	30
3/8" Ø SIMPSON STRONG-BOLT 2	2 1/2"	30	30
1/2" Ø HILTI KB-T22	2 1/2"	50	50
1/2" Ø DEWALT POWERSTUD-SD2	2 1/2"	40	40
1/2" Ø SIMPSON STRONG-BOLT 2	2 1/2"	60	60

NOTE: TORQUE LOAD AS REQUIRED PER CBC 1910A.5.2

- THIS DRAWING PREPARED OR MANUFACTURER'S CERTIFICATION (CPM) IS BASED ON THE CBC 2022. THE DEMAND DESIGNATION OF THIS DRAWING SHALL BE BASED ON THE DEMAND DESIGNATION OF THE PROJECT.
3. THESE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OR PROTECTIVE EQUIPMENT. ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
4. GENERAL NOTES AND TYPICAL DETAILS APPLY TO THE DRAWINGS UNLESS OTHERWISE NOTED. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER THESE GENERAL NOTES AND TYPICAL DETAILS.
5. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES, AND VERIFY ALL DIMENSIONS PRIOR TO START OF CONSTRUCTION. IN THE EVENT OF ANY DISCREPANCIES OR INCONSISTENCIES, THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER.
6. FIELD SUBSTITUTION OF STEEL MATERIALS AND FASTENERS ARE NOT ALLOWED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
7. THE CONTRACTOR SHALL PROVIDE STATEMENT OF RESPONSIBILITY AS REQUIRED BY CBC SECTION 1704A.
8. THESE DRAWINGS AND SPECIFICATIONS APPLY TO THE STRUCTURAL ELEMENTS ONLY. ALL OTHER ARCHITECTURAL AND ENGINEERING SPECIFICATIONS, CALCULATIONS, AND JUDGEMENTS CAN BE FOUND IN THE ASSOCIATED PROJECT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL OTHER INFORMATION REQUIRED BY THE PROJECT. ENGINEERS AND NOT SELECTED BY NEOPDO SYSTEMS NOR THE STRUCTURAL ENGINEER ASSOCIATED WITH THIS SET OF DRAWINGS AND SPECIFICATIONS.
9. ALL NON-FRAMING COMPONENTS SHOWN IN THESE DRAWINGS ARE PLACEHOLDERS UNTIL, SUCH COMPONENTS ARE DESIGNED BY THE ENGINEERS FOR THE PROJECT. NON-FRAMING COMPONENTS DESIGNED BY SPECIFIC PROJECT ENGINEERS SHALL SUPERSEDE THE INFORMATION SHOWN IN THESE DRAWINGS.
10. UNIT DEPICTED MAY EXIST AS MIRRORRED VERSION.






1. SPECIAL INSPECTION BY A REGISTERED BUILDING INSPECTOR HIRED BY THE OWNER AND APPROVED BY OSHPD SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK. SEE PROJECT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.
- A. STRUCTURAL STEEL AND FIELD WELDING.
 - B. INSTALLATION OF EXPANSION TYPE, SCREW TYPE, AND ADHESIVE TYPE BOLTS IN CONCRETE.
 - C. WELDING OF LIGHT GAUGE STUDS, JOISTS, AND ACCESSORIES.
 - D. PERIODIC INSPECTION OF EXTERIOR NON BEARING WALLS IN SEISMIC DESIGN CATEGORY D, E, OR F PER IBC SECTION 1705.12.2

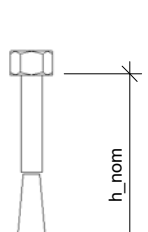
1. DESIGN IS IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

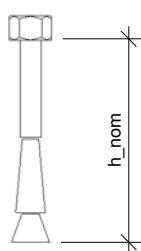
DESIGN LOADS	
MAX POD WEIGHT	3,400 LBS
MINIMUM INTERNAL PRESSURE	5 PSF
CEILING LIVE LOAD	NOT PERMITTED
SHIPPING WIND LOAD	9.6 PSF

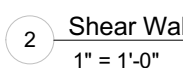
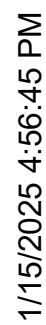
SEISMIC DESIGN CRITERIA		
SPECTRAL ACCELERATION	S_{DS}	1.75g MAX
ELEVATION/BUILDING HEIGHT	z/h	SEE SCHEDULE
SHORT PERIOD ACCELERATION	S_{D1}	NA
SEISMIC IMPORTANCE FACTOR	I_e	1.5
COMPONENT IMPORTANCE FACTOR	I_p	1.5
AMPLIFICATION FACTOR	a_p	1.0
COMPONENT RESPONSE MODIFICATION FACTOR	R_n	2.5
OVERSTRENGTH FACTOR	Ω_0	2.0
VERTICAL DEFLECTION LIMIT		3/4"
BRITTLE FINISHES DEFLECTION LIMIT		L/360
FLEXIBLE FINISHES DEFLECTION LIMIT		L/240

- A. WORK SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
1. AMERICAN IRON AND STEEL INSTITUTE (AISI) DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.
2. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
3. AISI 250 SHALL MEET THE REQUIREMENTS OF THE FOLLOWING:
4. 54 MIL AND HEAVIER: 20 KSI MIN YIELD, 65 KSI MIN TENSILE STRENGTH ASTM A1003 STRUCTURAL GRADE 50 TYPE H (ST50H)
5. 43 MIL AND LIGHTER: 35 KSI MIN YIELD, 45 KSI MIN TENSILE STRENGTH ASTM A1003 STRUCTURAL GRADE 33 TYPE H (ST33H)
6. MISCELLANEOUS STEEL TO CONFORM TO THE FOLLOWING:
7. A. 30 TO 43 MIL: 35 KSI MIN YIELD, 45 KSI MIN TENSILE
8. 54 MIL TO 118 MIL: 50 KSI MIN YIELD, 65 KSI MIN TENSILE
9. C. 316/7 AND HEAVIER: ASTM A36
10. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR ON AN ANGLE SUCH AS BRACING TO SQUARELY FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE WELD FIRMLY IN POSITION UNTIL, WIRE TYPING OF FRAMING COMPONENTS IS NOT PERMITTED.
11. SPLICES IN WALL TRACKS ARE REQUIRED WHERE TOP TRACK IS NOT ATTACHED TO A COMMON CONTINUOUS STRUCTURAL MEMBER AND SHALL ACCOMPLISH PER TYPICAL TRACK SPLICE DETAIL UNO.
12. SPLICES IN AXIAL LOADED STUDS OR BRACES ARE NOT PERMITTED. WHERE STUDS ARE BURNED THROUGH BY WELDING, REPLACE WITH IDENTICAL SPLICES OF THE SAME SIZE AND GAUGE.
13. UNLESS NOTED OTHERWISE, ALL TRACKS SHALL MATCH STUD SIZE AND GAUGE.
14. ALL CALCULATED STUD PROPERTIES PER AISI SPECIFICATION ARE BASED ON THE FOLLOWING THICKNESSES:
- | | | |
|------------|--------|---------|
| A. 118 MIL | (12GA) | 0.1242" |
| B. 97 MIL | (10GA) | 0.1017" |
| C. 68 MIL | (14GA) | 0.0732" |
| D. 54 MIL | (16GA) | 0.0566" |
| E. 43 MIL | (18GA) | 0.0451" |
| F. 33 MIL | (20GA) | 0.0346" |
15. LATERAL BRIDGING FOR STEEL STUDS IS REQUIRED WHEN WALL BOARD INSTALLED IN ACCORD WITH AISI S211 SECTION B1 UNO. BRIDGING SHALL BE INSTALLED IN ACCORD WITH RELATED DETAILS.
16. TRACK SHALL BE PUNCHED WITH STUDS TO MATCH STUD FRAMING UNO.
17. UTILITY PUNCH HOLES IN STUDS SHALL BE LOCATED AWAY FROM CONNECTIONS. THE MINIMUM CLEAR DISTANCE FROM THE PUNCHPOINT TO END OF MEMBER SHALL BE 10".
18. WALL STUD BRIDGING SHALL BE INSTALLED IN A MANNER TO PROVIDE RESISTANCE TO BOTH MINOR AXIS BENDING AND TORSION.
19. AXIAL LOAD BEARING STUDS MUST BE FULLY SEATED INTO THE WALL TRACKS (1/16" MAXIMUM GAP BETWEEN THE STUDS AND TRACK WEBS).
20. OPENINGS IN STEEL WEBS OTHER THAN STANDARD HOLES PUNCHED BY THE MANUFACTURER ARE PROHIBITED UNLESS SPECIFICALLY DETAILLED.
21. ALL STEEL STUDS AND TRACKS SHALL BE MANUFACTURED BY A STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) MEMBER CERTIFIED STEEL STRUCTURE ASSOCIATION (CSSA) MEMBER OR A STEEL FRAMING INDUSTRY ASSOCIATION (SFIA) MEMBER UNLESS NOTED OTHERWISE. THE STEEL STUDS AND TRACKS SHALL ALSO CONFORM TO THE 2007 NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS.
22. THESE DRAWINGS ASSUME THAT THE PRIMARY STRUCTURE INCLUDING ELEMENTS SUCH AS ROOF EAVE ELEMENTS, SLAB OR BEAMS AND OTHER ELEMENTS INSTALLED TO SUPPORT AND RESIST LOADS PRODUCED BY THE EXTERIOR FRAMING SYSTEM HAVE BEEN ADEQUATELY DESIGNED FOR THIS PURPOSE UNLESS SPECIFICALLY NOTED.
23. SCREWS MAY BE INSTALLED IN EITHER DIRECTION FROM THINNER PART TO THICKER PART UNO.

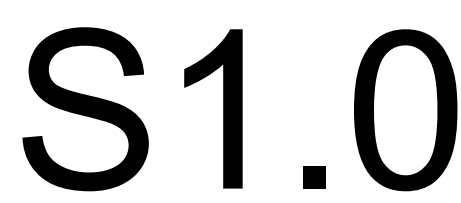
FASTENERS AND CONNECTORS					
CONNECTOR TYPE	SUBSTRATE	DESCRIPTION	PRODUCT	NOTED ON PLANS AS	GRAPHIC
SCREWS	METAL TRACK	#8 @ < 43 MIL OR #10 AT ANY GAGE UNO	HILTI SELF-DRILLING & SELF-PIERCING SCREWS		
	STUD-TO-STUD	#8 @ < 43 MIL OR #10 AT ANY GAGE UNO	PRO-TWIST MARKER & DARTS SELF-DRILLING SCREWS PER ESR 1468 OR EQUAL	SMS	
LOW VELOCITY FASTENERS	STRUCTURAL STEEL	0.157" Ø UNO			
	CONCRETE	0.157" Ø X 1" EMBED UNO	HILTI X-U PER ESR 2269	LVF	
MECHANICAL ANCHORS	CONCRETE	3/8" Ø X 2 1/2" EMBED OR 1/2" Ø X 2 1/2" EMBED UNO	HILTI HK-T22 PER ESR-4266 SIMPSON STRONG-BOLT® PER ESR 1037		
			DEWALT POWER-STOP S02 PER ESR-2502	EXP. ANCHOR	

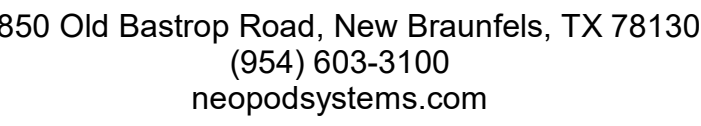
1. SEE PLANS FOR LOCATIONS AND QUANTITY OF CONNECTIONS.
2. ALL FASTENERS SHALL BE THE MIN SIZE AND EMBEDMENTS OF THE ABOVE CHART UNO IN THE PLANS.
3. ALL FASTENERS SHALL BE INSTALLED IN ACCORDANCE WITH THE NOTED ESR REPORT AND THE REQUIREMENTS OF THE GOVERNING AUTHORITY.
4. SCREWS LISTED IN THE ABOVE CHART SHALL BE SUFFICIENT LENGTH TO ENSURE PENETRATION INTO STEEL STUD BY AT LEAST 3 FULL DIAMETER THREADS.
5. FOR MECHANICAL ANCHORS, THE EMBEDMENTS LISTED IN THE ABOVE CHART IS THE HTE NOMINAL EMBEDMENT, $h_{n, min}$, AS IN THIS DIAGRAM.
- 
6. WHERE LVF ARE INSTALLED INTO STEEL GREATER THAN 1/2" THICK WHERE THE TIP OF FASTENER CANNOT PENETRATE THE STEEL, PROVIDE A MIN 1/2" POINT PENETRATION INTO STEEL.
7. SCREWS MAY BE INSTALLED IN EITHER DIRECTION FROM THINNER PART TO THICKER PART UNO.

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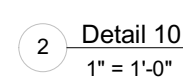
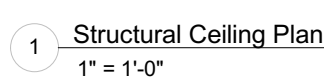


OPM-0749: Reviewed for Code Compliance by William Staehlin





STRUCTURAL ENGINEER:



CLIENT NAME: _____

PROJECT
NAME: CA BPR01

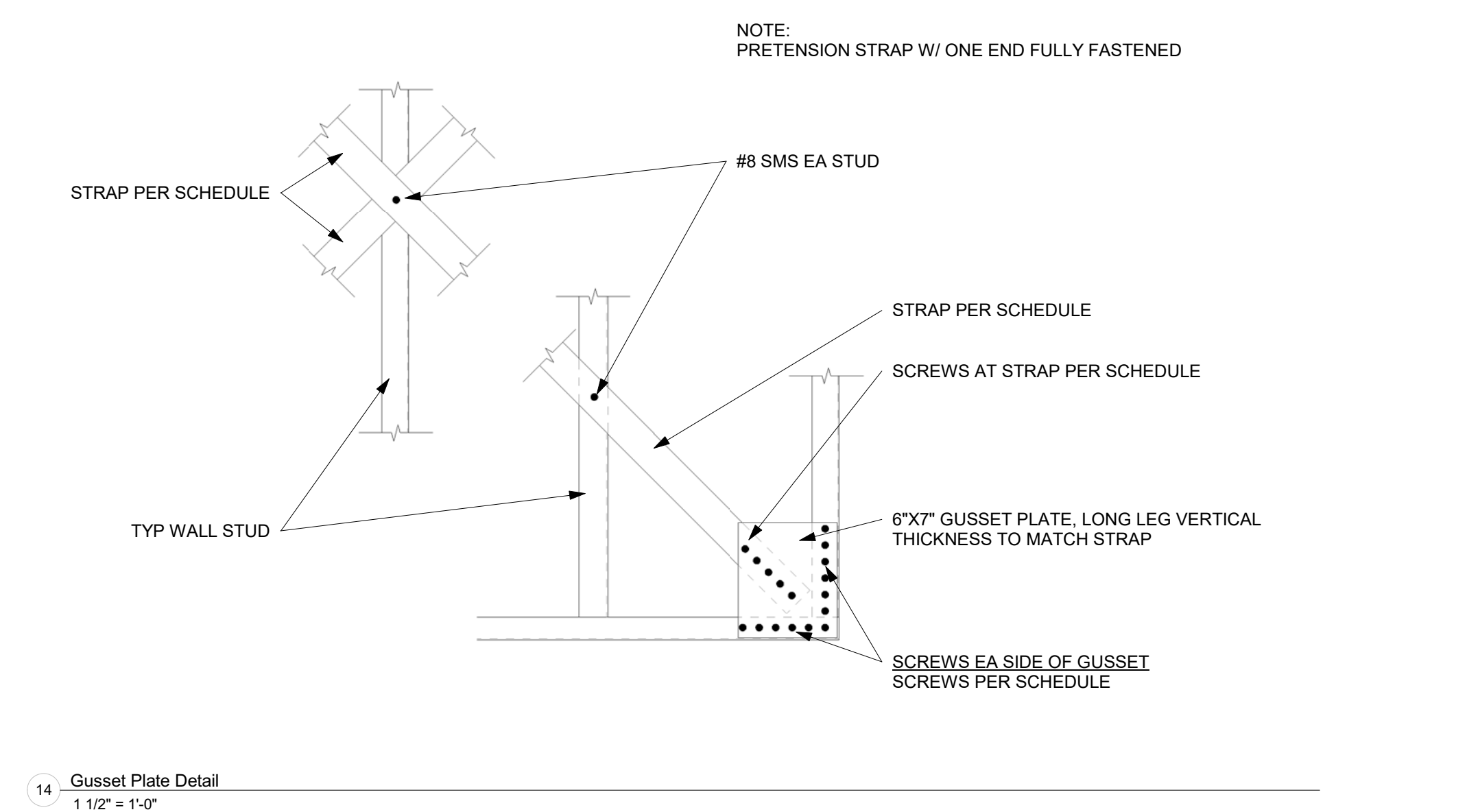
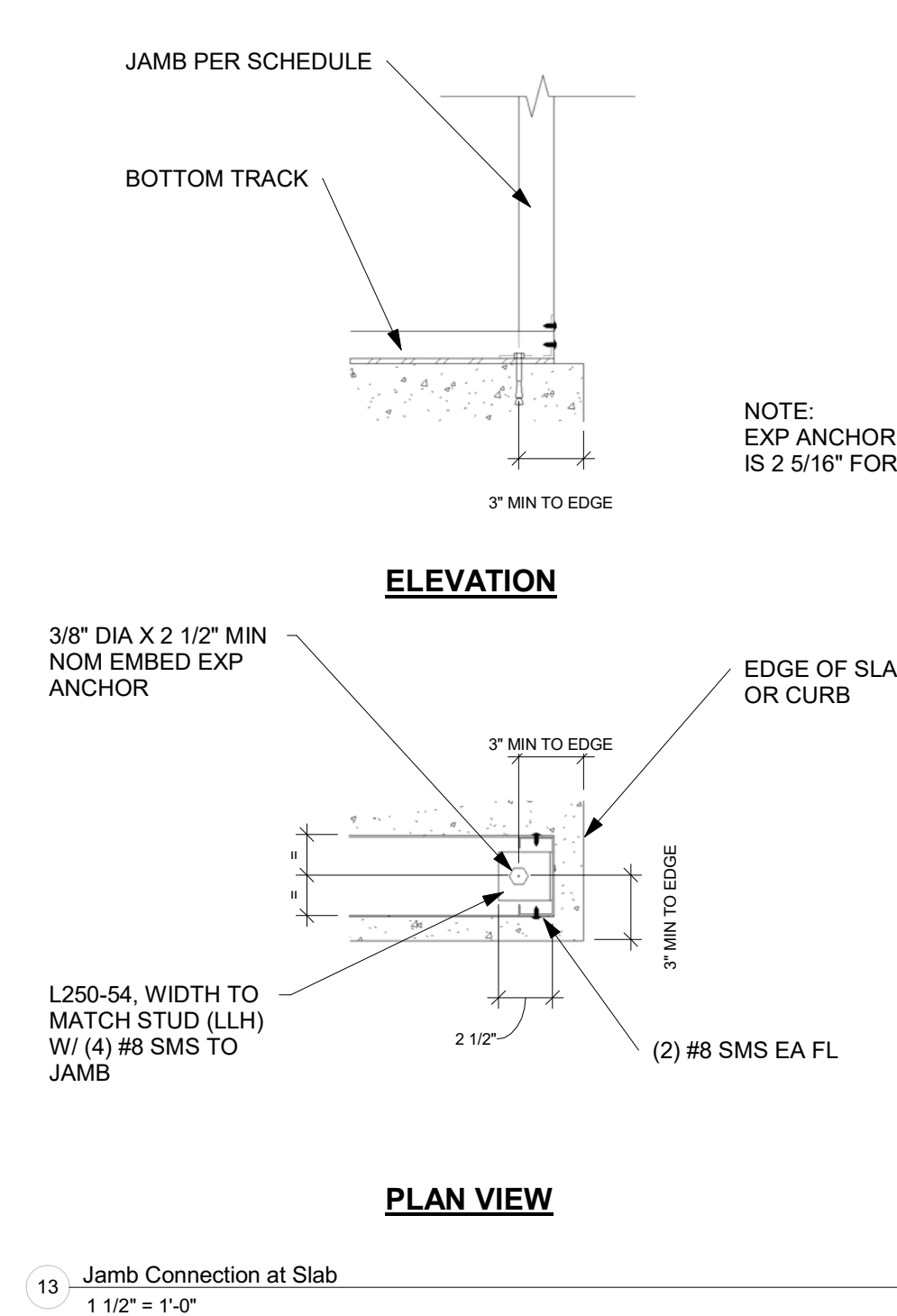
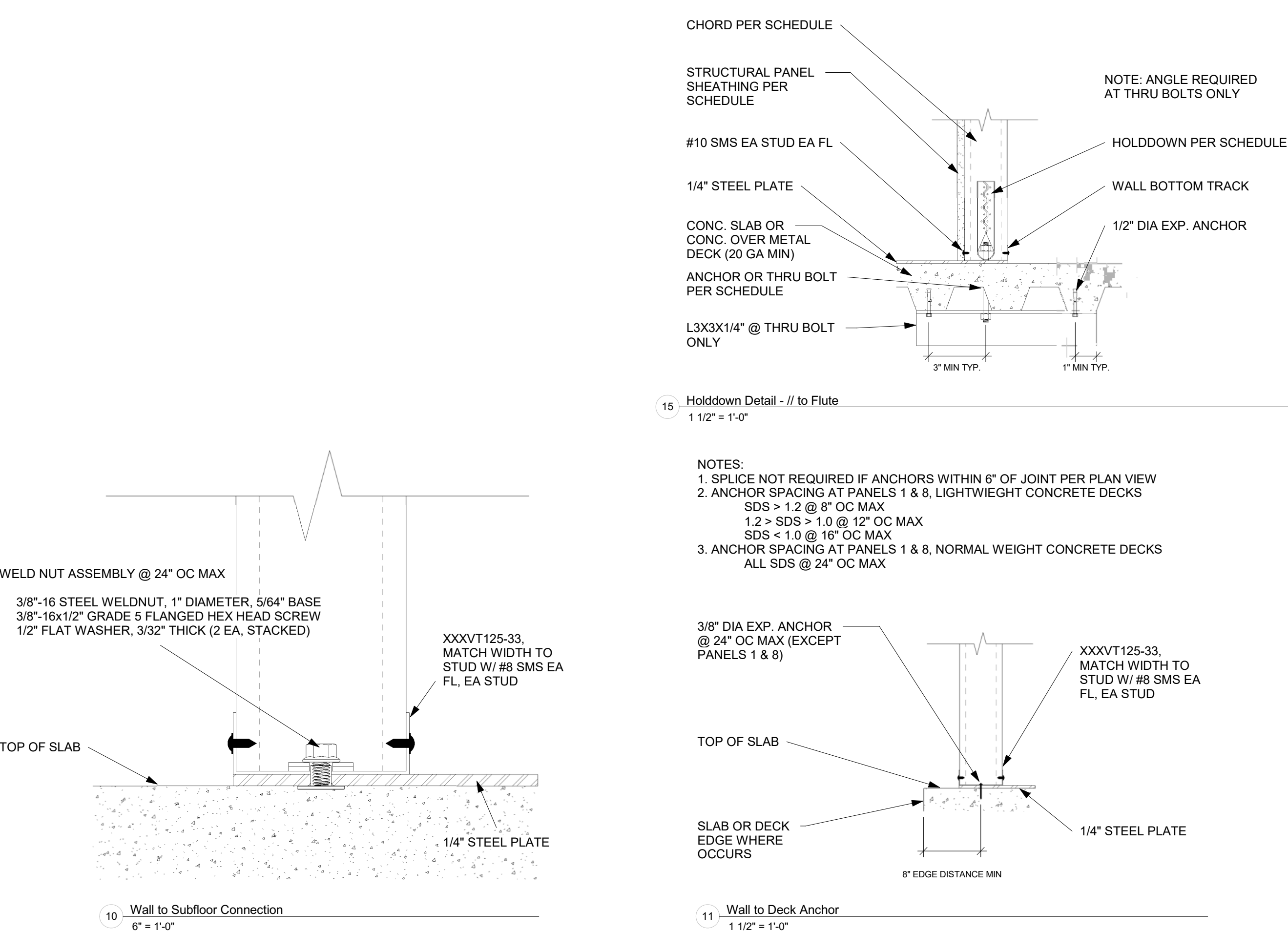
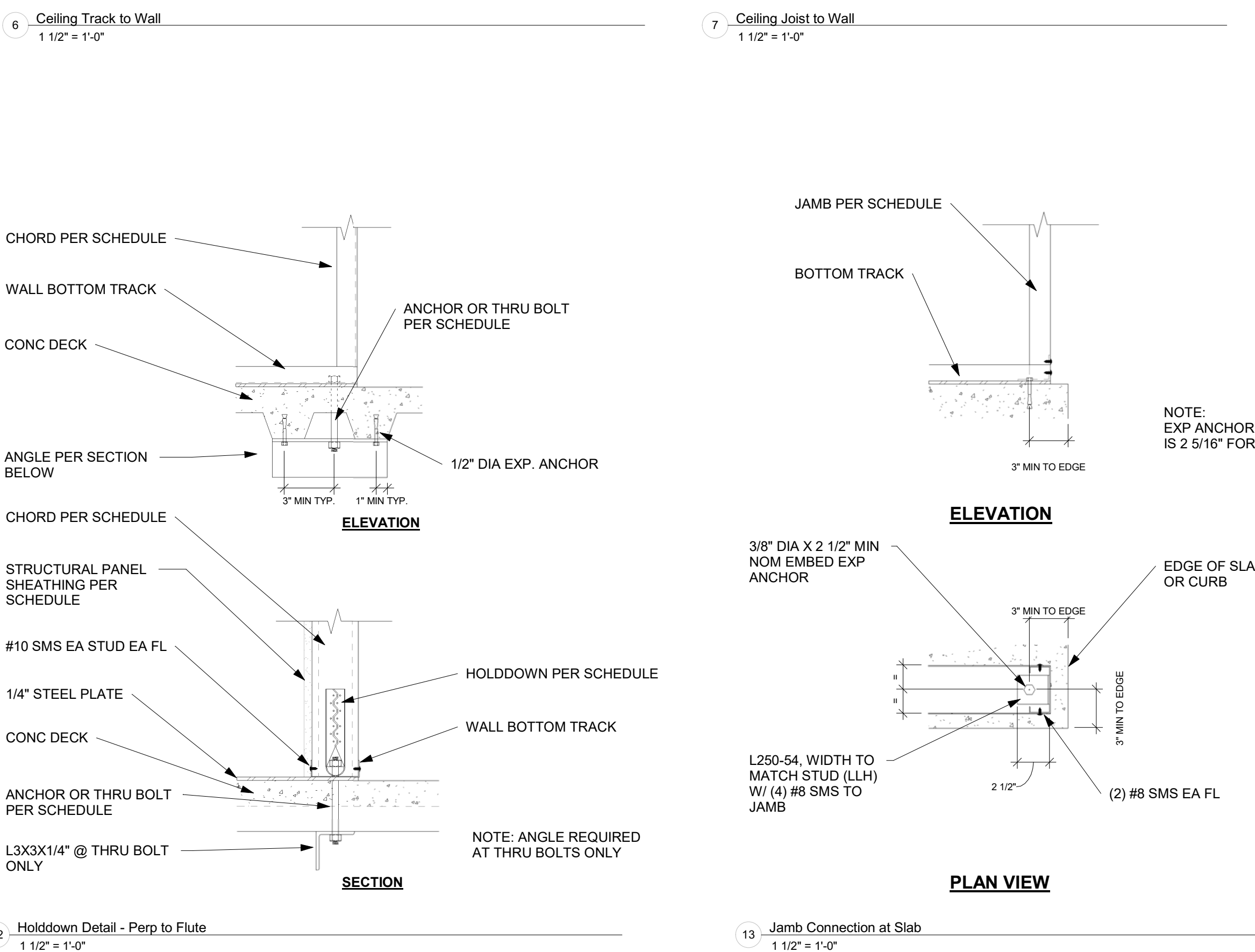
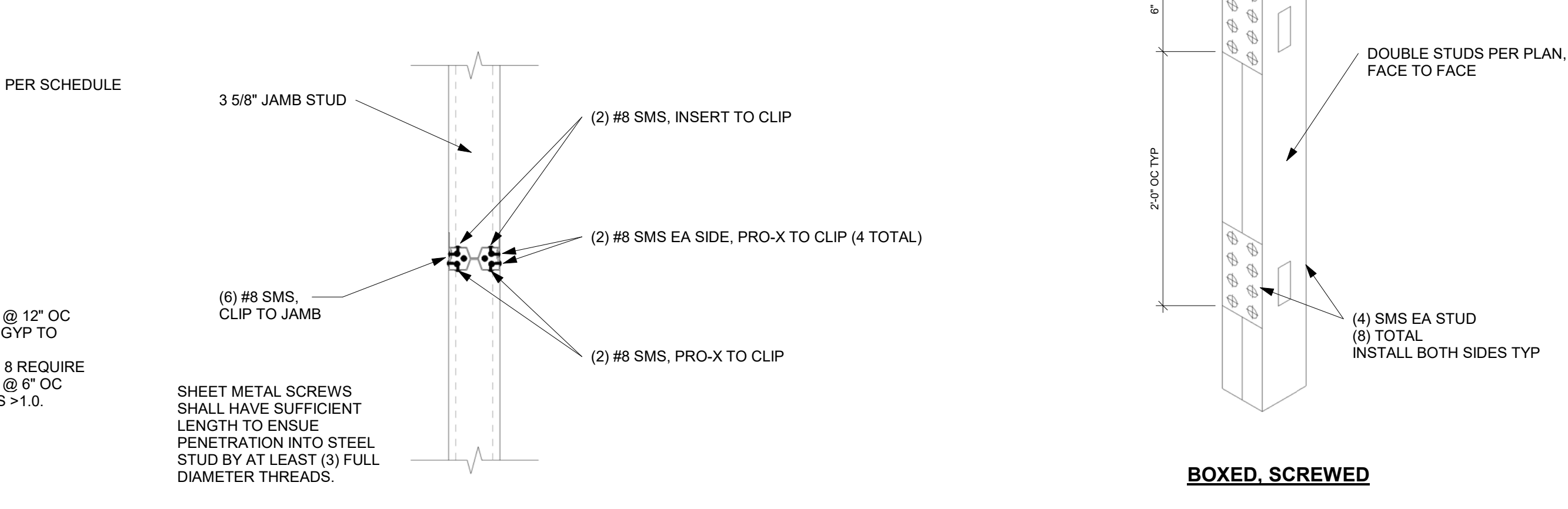
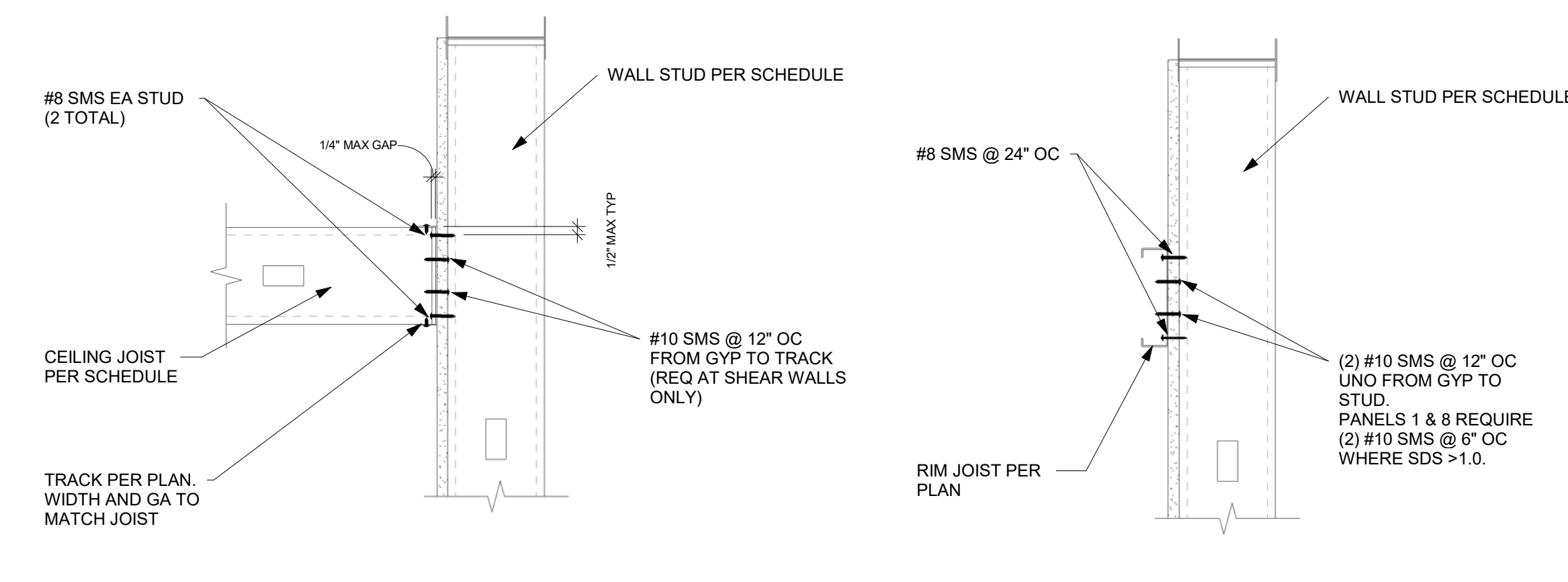
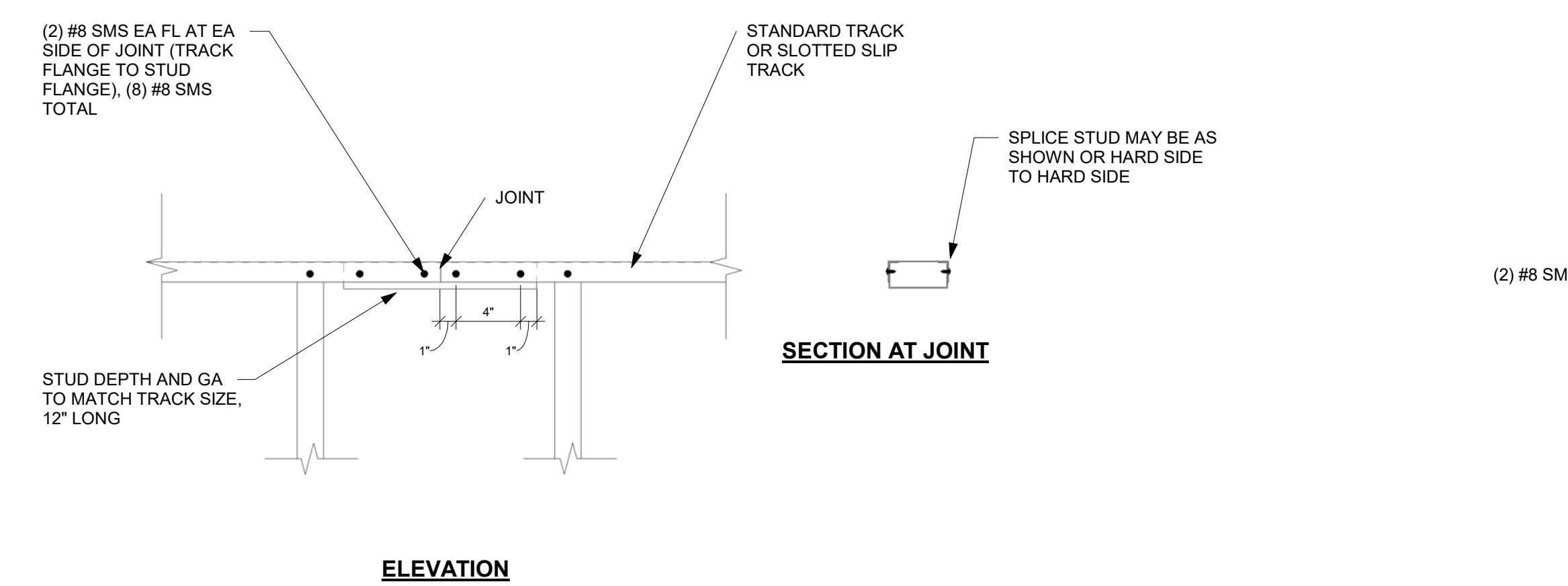
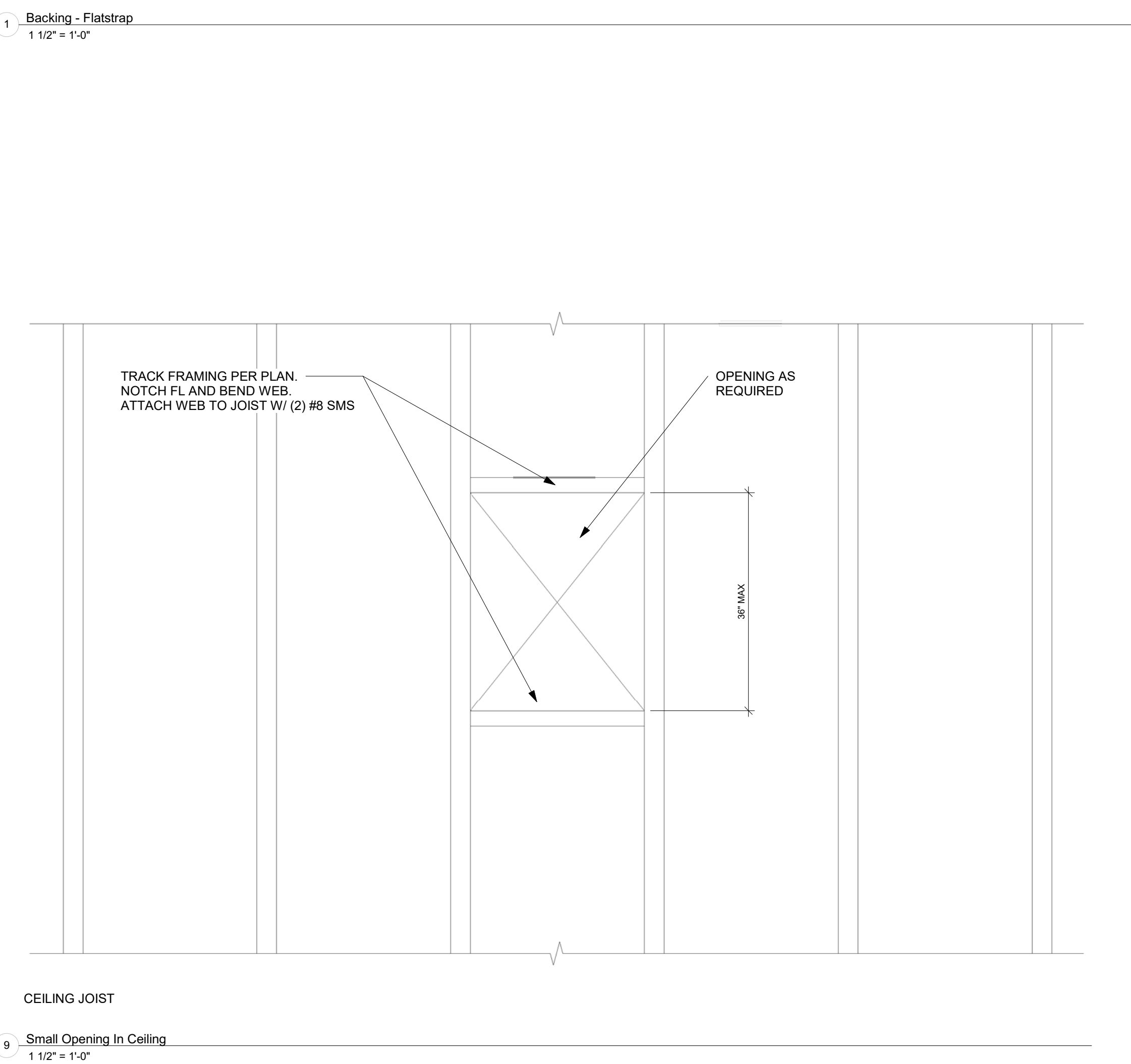
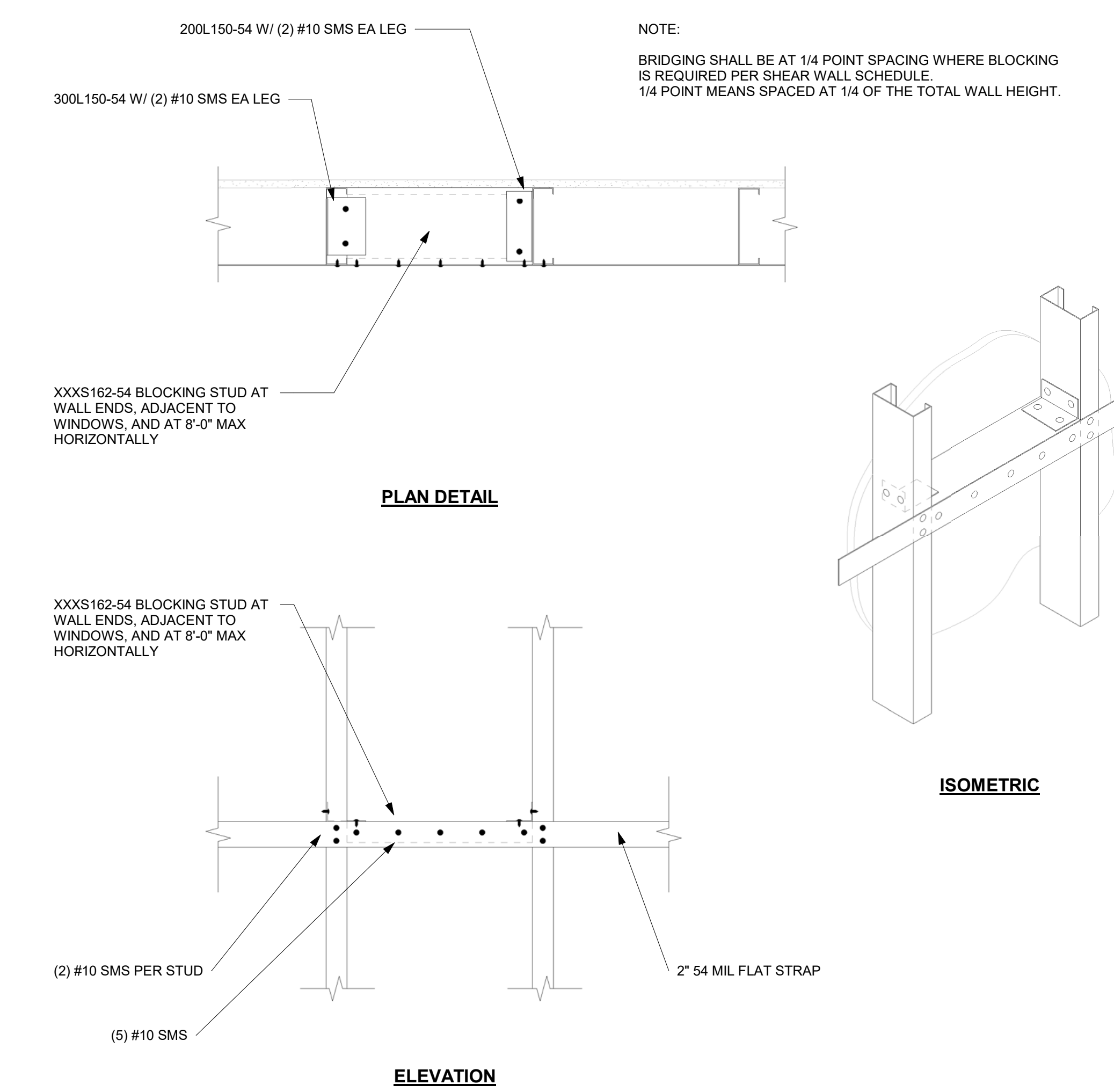
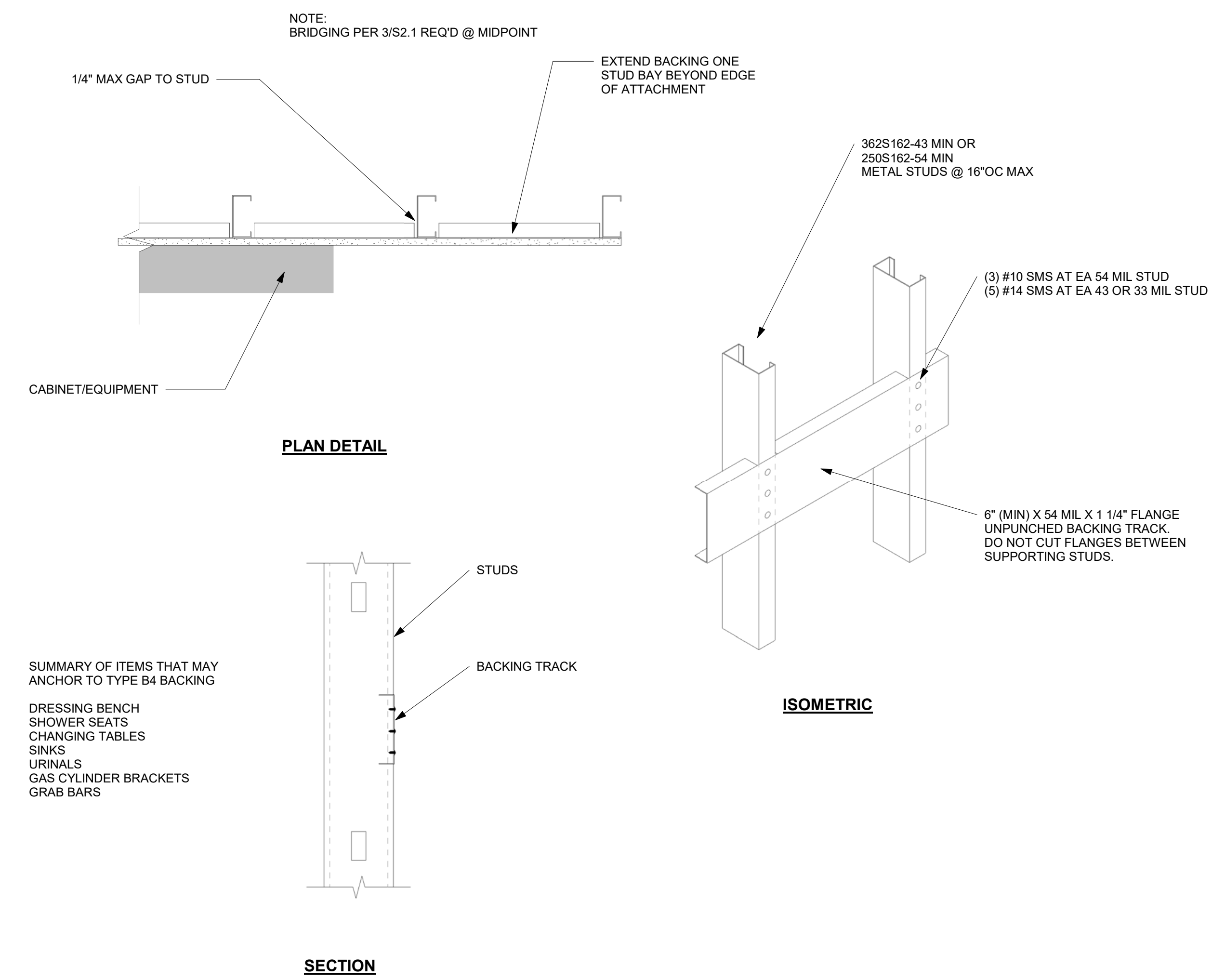
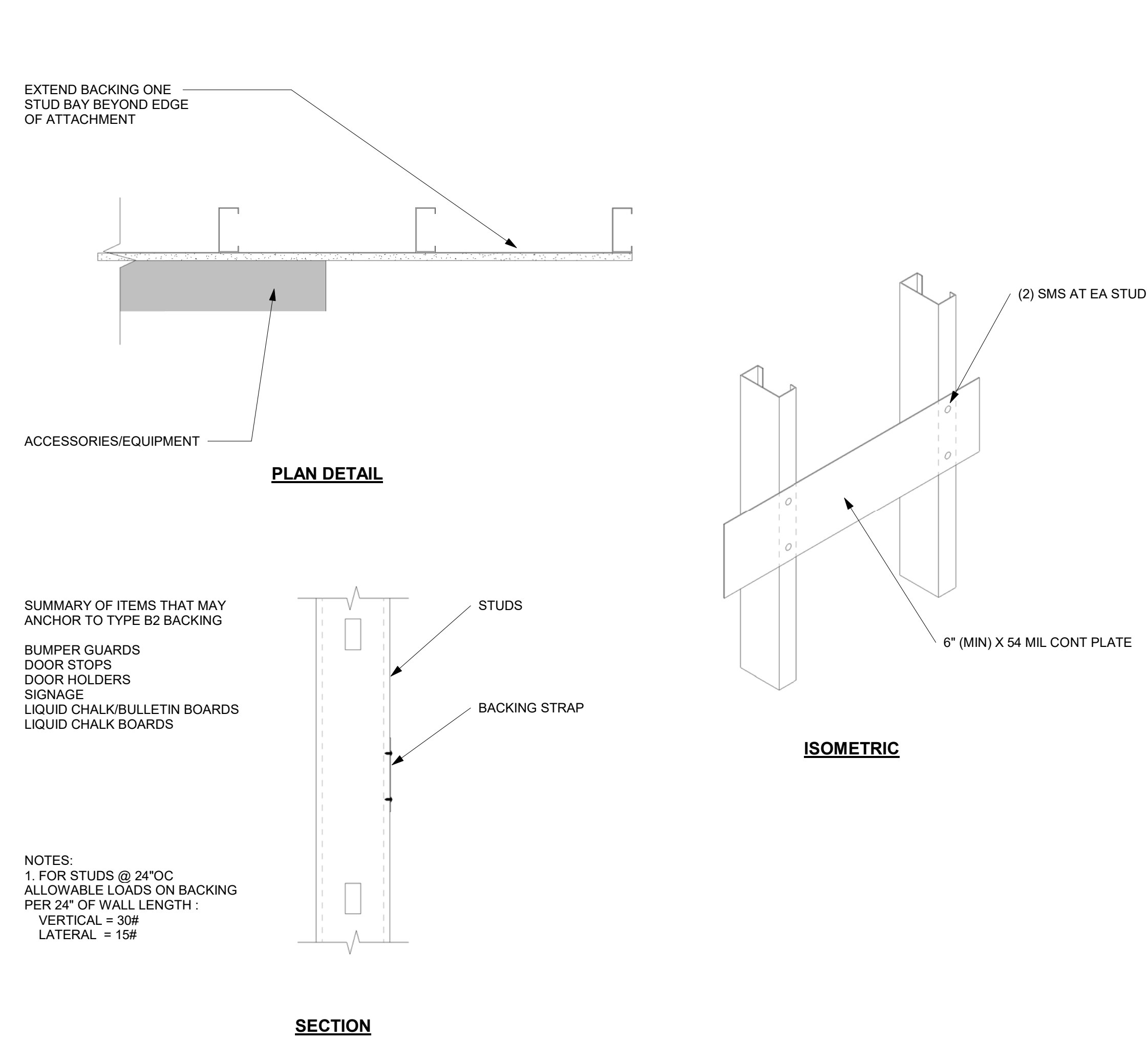
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Structural Ceiling Plan

PROJECT NUMBER:	OPM-0749	DATE:	1/8/2025
CHECKED BY:		DRAWN BY:	MM

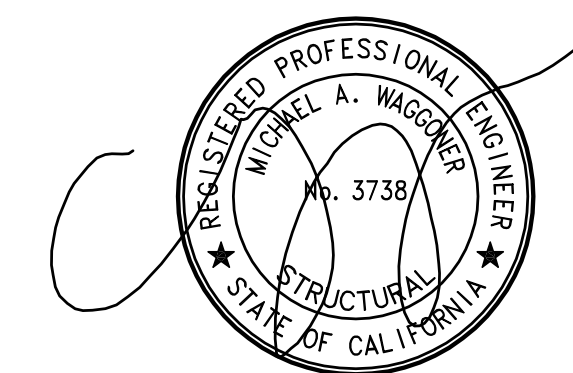
SHEET NUMBER:

S1.1



7850 Old Bastrop Road, New Braunfels, TX 78130
(954) 603-3100
neopodsystems.com

STRUCTURAL ENGINEER:



OSHPD APPROVAL:

[illegible]

CLIENT NAME:

PROJECT NAME:	CA BPR01
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SHEET NAME:

Additional Details

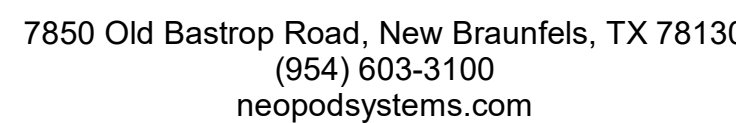
PROJECT NUMBER:	OPM-0749	DATE:	1/8/2023
CHECKED BY:		DRAWN BY:	MM

SHEET NUMBER

S2.1



1 Wall Connection to Joist
1 1/2" = 1'-0"



STRUCTURAL ENGINEER:



CLIENT NAME:

PROJECT NAME: _____

SHEET NAME:

Additional Details

PROJECT NUMBER:	OPM-0749	DATE:	1/8/2025
CHECKED BY:		DRAWN BY:	MM

SHEET NUMBER:

S2.2