

11B.703.2.6 Stroke Thickness for raised characters. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

11B.703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

11B.703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

11B.703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

11B.703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

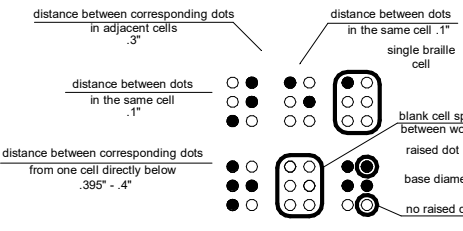


Figure 703.3.1 Braille Measurement

11B.703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

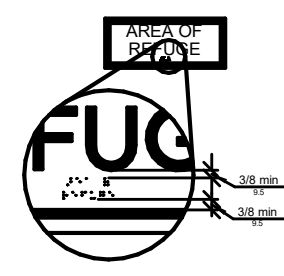


Figure 703.3.2 Position of Braille

11B.703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

11B.703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest braille character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

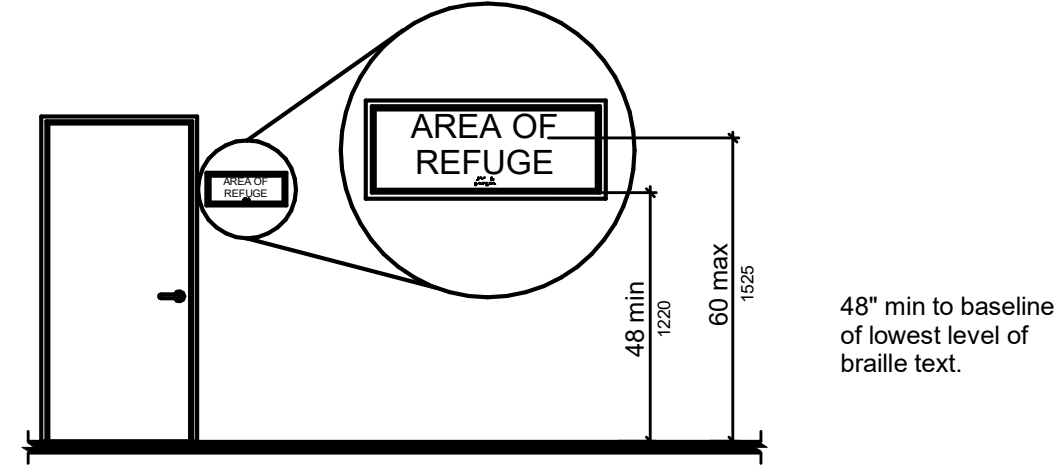


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

11B.703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

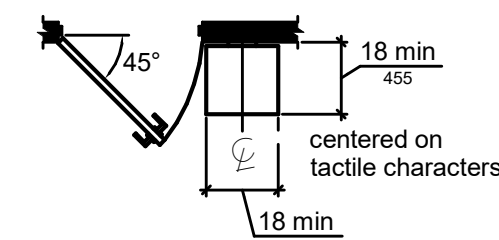


Figure 703.4.2 Location of Tactile Signs at Doors

11B.703.5 Visual Characters. Visual characters shall comply with 703.5.

11B.703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

11B.703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

11B.703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

11B.703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 60 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

11B.703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".

11B.703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

11B.703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 20 percent maximum of the height of the character.

11B.703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height.

11B.703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

11B.703.6 Pictograms. Pictograms shall comply with 703.6.

11B.703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.

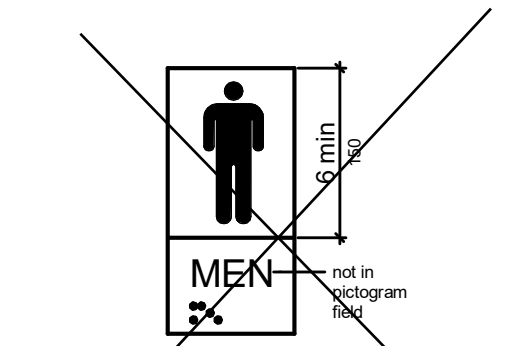


Figure 703.6.1 Pictogram Field dark-on-light

CHAPTER 11: COMMUNICATION ELEMENTS AND FEATURES

11B.702 Fire Alarm Systems

11B.702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (2022 edition) except that the maximum allowable sound level of audible notification appliances complying with section 11B.4-3.2.1 of NFPA 72 shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with NFPA 72 (2022 edition)

11B.703 Signs

11B.703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

11B.703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

11B.703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

11B.703.2.2 Case. Characters shall be uppercase.

11B.703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

11B.703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 60 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

11B.703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (15.9 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".

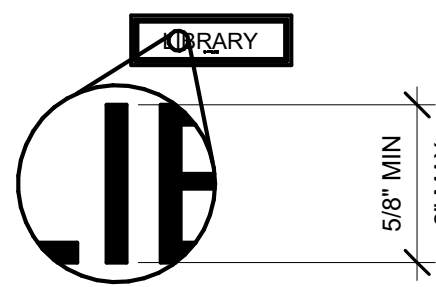
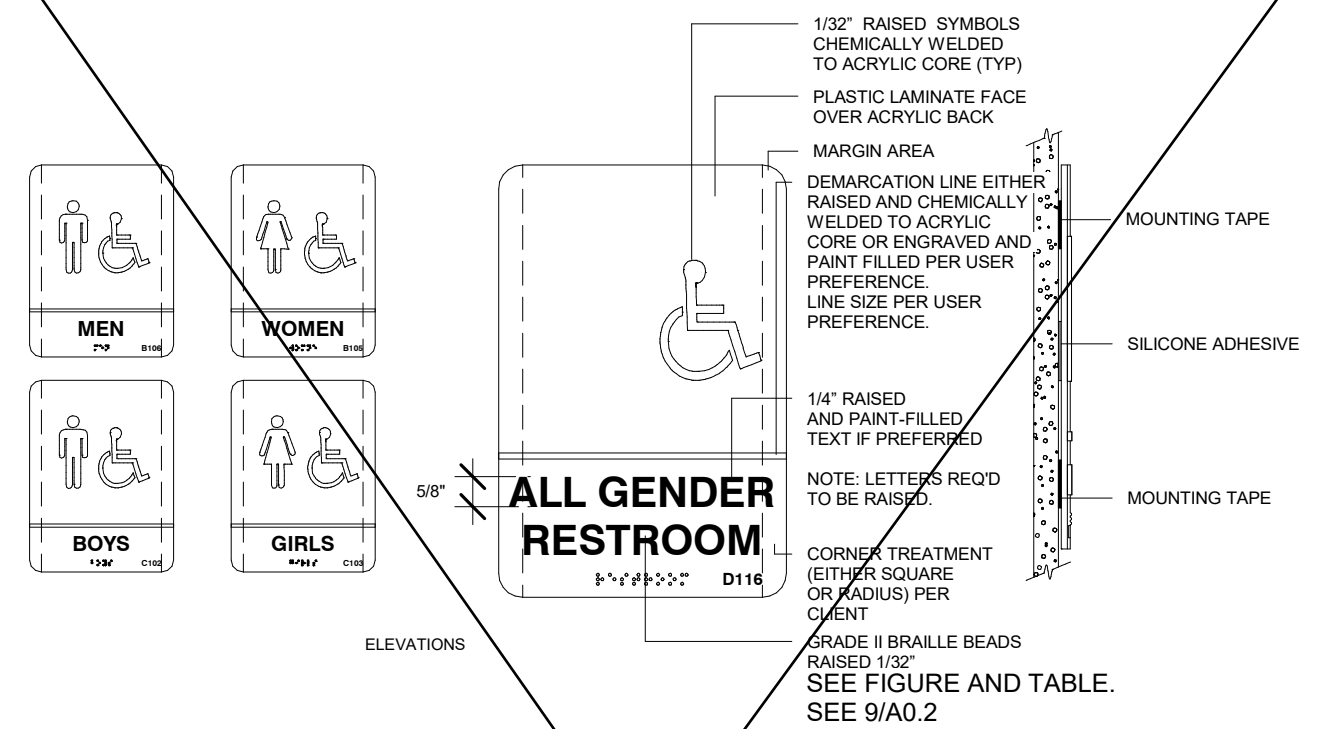


Figure 703.2.5 Height of Raised Characters

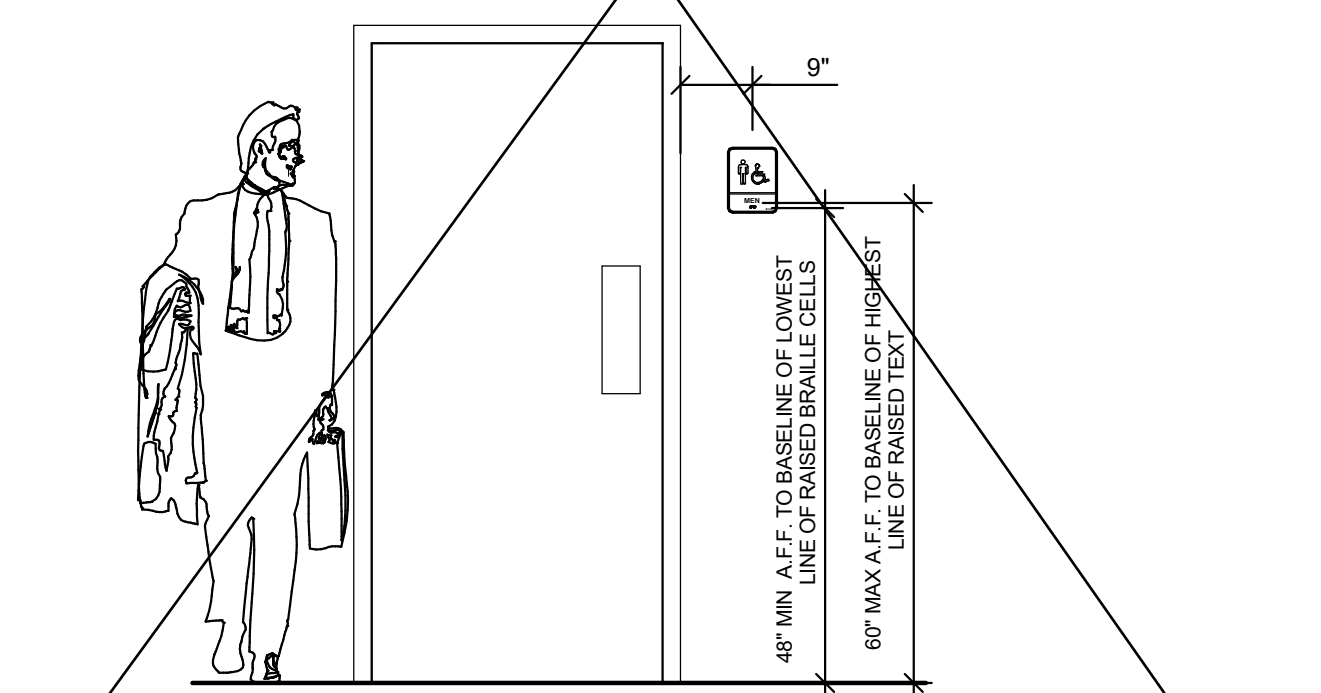
TABLE 11B-703.3.1 BRAILLE DIMENSIONS	
MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6 mm)
Distance between two dots in the same cell ¹	0.100 (2.5 mm)
Distance between corresponding dots in adjacent cells ¹	0.300 (7.6 mm)
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below ¹	0.395 (10 mm) to 0.400 (10.2 mm)

1. Measured center to center.

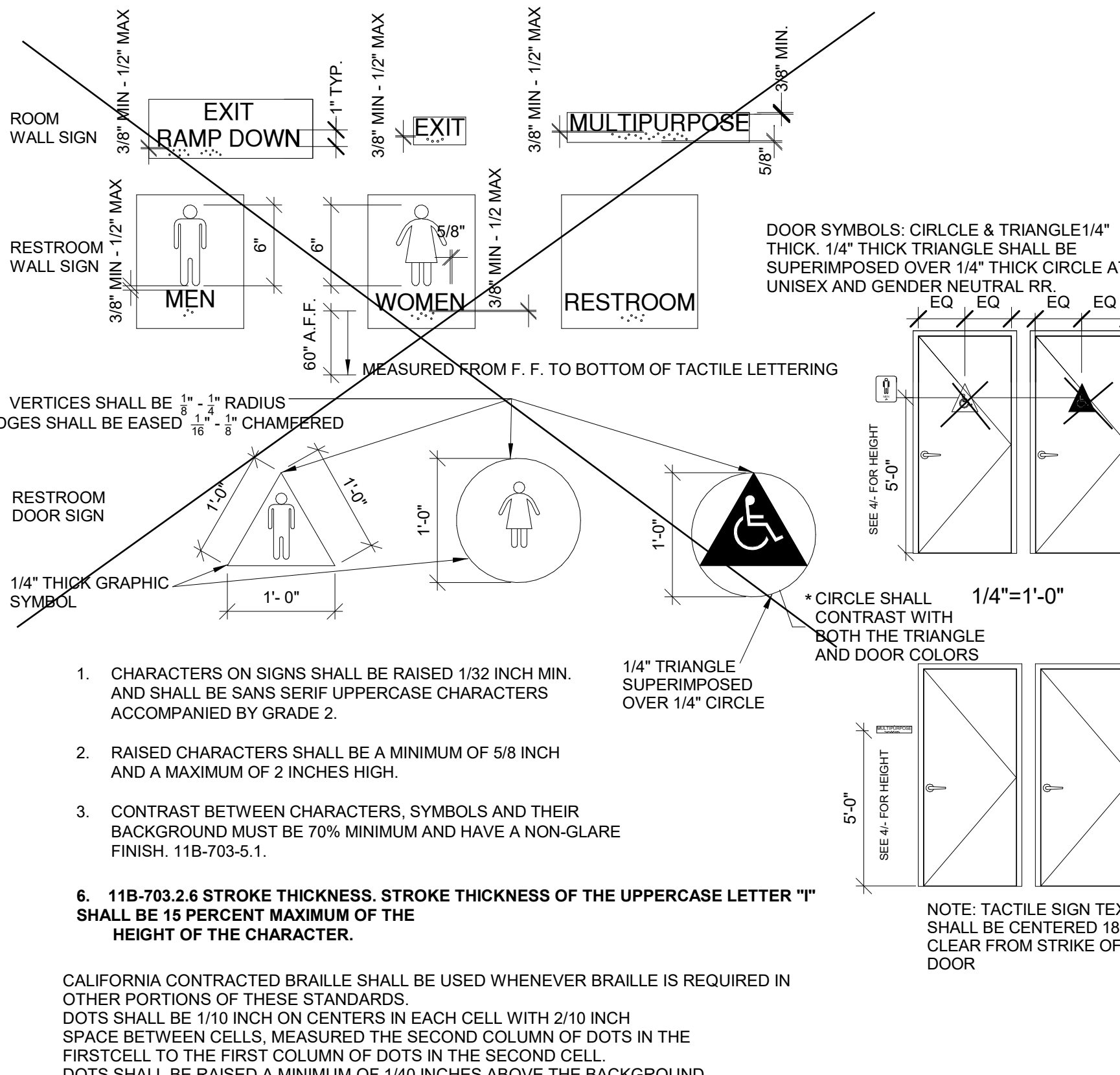
5 1/4" = 1'-0" Sign Notes



4 1/2" = 1'-0" Signage



3 1/4" = 1'-0" Signage and Notes



- CHARACTERS ON SIGNS SHALL BE RAISED 1/32 INCH MIN. AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2.
- RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8 INCH AND A MAXIMUM OF 2 INCHES HIGH.
- CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH, 11B-703-5.1.
- 11B-703.2.6 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.

CALIFORNIA CONTRACTED BRAILLE SHALL BE USED WHENEVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10 INCH ON CENTERS IN EACH CELL WITH 2/10 INCH SPACE BETWEEN CELLS. MEASURED THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCHES ABOVE THE BACKGROUND. SEE FIGURE AND TABLE. SEE 2/A0.2

* NOTE FOR UNISEX OR SINGLE USER RESTROOM DOOR SYMBOL: THE COLOR OF THE TRIANGLE SHALL CONTRAST WITH THE COLOR OF THE CIRCLE SYMBOL. EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. THE COLOR OF THE CIRCLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE COMBINED CIRCLE AND TRIANGLE SYMBOL IS MOUNTED, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.

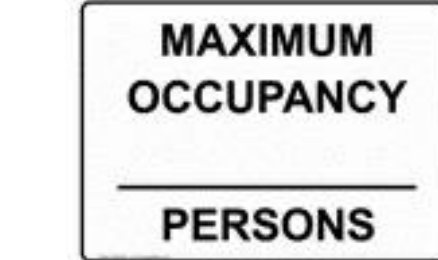
7 1" = 1'-0" Assistive Listening System Symbol



THE "INTERNATIONAL SYMBOL FOR ACCESS FOR HEARING LOSS" PROPORTIONS SHALL BE APPROXIMATE CBC FIGURE 11B-703.7.2.4

"INFORMATION TO BE PROVIDED WHEN BUILDINGS ARE SITE LOCATED" REQUIRED PER 11B-219 & 11B-706 (SEE FLOOR PLANS FOR MORE INFO) NOTE: TEXT ON THIS SIGN IN VISUAL

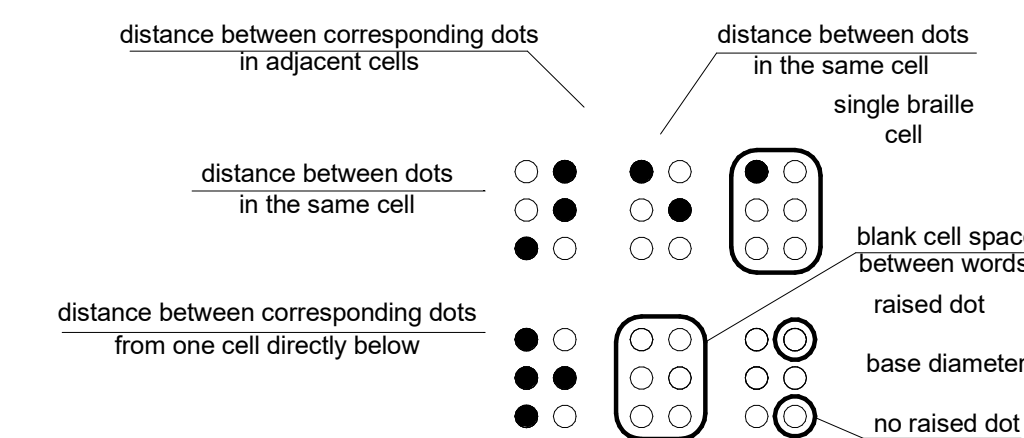
8 1" = 1'-0" EQUIPMENT ANCHORAGE



OCCUPANT LOAD SIGN REQUIRED PER DSA BU11-08. EVERY ROOM OR SPACE WHICH IS USED FOR ASSEMBLY, CLASSROOM, DINING OR SIMILAR PURPOSES HAVING AN OCCUPANT LOAD OF 50 OR MORE SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY

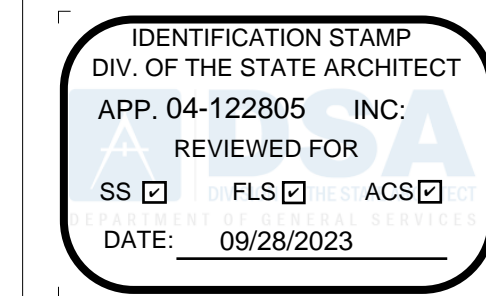
BRAILLE DIMENSIONS

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Distance between corresponding dots in adjacent cells ¹	0.300 (7.6 mm)
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from once cell directly below ¹	0.395 (10 mm) to 0.400 (10.2 mm)



9 1/2" = 1'-0" BRAILLE DIMENSIONS

PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP

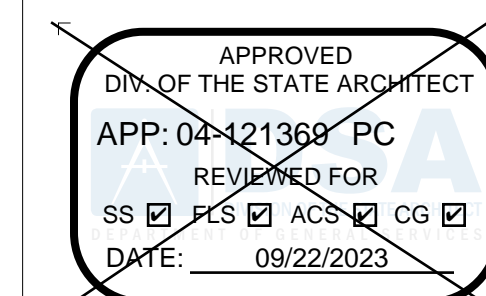


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ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE SIGNAGE AND SYMBOLS

PROJECT NUMBER 22088

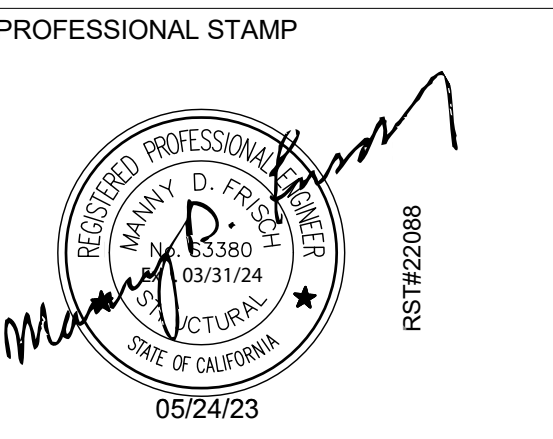
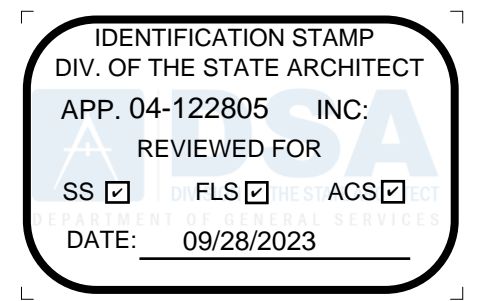
DRAWN BY rMc/SC

CHECKED BY RH/RT

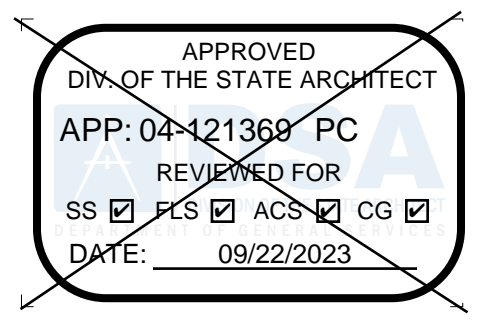
DATE

SHEET NO. A0.2

SHEET OF



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Revision Schedule		
#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
CALGREEN SPEC'S

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A0.5

UL U419 OR UL U465 (OR EQ) TO BE USED FOR INT. STC RATING. WOOD STUD MAY BE USED ILO OF MTL STUD

	<p>Fire Test UL U419 or MEA 81-98-M Steel Stud (Non-loadbearing) Interior Partitions Sound Test: RAL-TL11-125</p>	<p>Fire Rating 1 hr.</p>	<p>STC 40</p>	<p>Thickness (in.) 4-7/8"</p>	<ul style="list-style-type: none"> • Gypsum Board - 5/8 in. thick gypsum board applied vertically or horizontally. - SHEETROCK Brand FIRECODE Core (Type X) • Steel Studs - 3-5/8 in. wide min. 25 gauge steel studs @ max 24 in. OC - 362S125-18 • Gypsum Board - 5/8 in. thick gypsum board applied vertically or horizontally. - SHEETROCK Brand FIRECODE Core (Type X) <p>Visit U419</p>
	<p>Fire Test UL U465 Steel Stud (Non-loadbearing) Interior Partitions Sound Test: RAL-TL11-125</p>	<p>Fire Rating 1 hr.</p>	<p>STC 40</p>	<p>Thickness (in.) 4-7/8"</p>	<ul style="list-style-type: none"> • Gypsum Board - 5/8 in. thick board, applied vertically, attached to studs with 1 in. long, Type S-12 screws, spaced 8 in. OC along the edges and 12 in. OC of the board - SHEETROCK Brand FIRECODE Core (Type X) • Steel Studs - 3-5/8 in. wide min. 25 gauge steel. Attached to floor and ceiling with fasteners, 24 in. OC - 362S125-18 • Gypsum Board - 5/8 in. thick gypsum board applied vertically or horizontally. - SHEETROCK Brand FIRECODE Core (Type X) <p>Visit U465</p>

UL U457 (OR EQ) TO BE USED FOR EXT. STC RATING . WOOD STUD MAY BE USED ILO OF MTL STUD

	<p>Fire Test UL U457 Steel Stud (Non-loadbearing) Interior Partitions Sound Test: USG-840222</p>	<p>Fire Rating 1 hr.</p>	<p>STC 50</p>	<p>Thickness (in.) 4-3/4"</p>	<ul style="list-style-type: none"> • Cement Board - 1/2 thick board, square edge - DUROCK Brand Cement Board Next Gen • Steel Studs - 3-5/8 in. wide by 1-1/4 in. deep, min. 20 gauge steel, max 16 in. OC - 362S125-30 • Batts and Blankets - 3 in. mineral wool batt insulation • Gypsum Board - 5/8 in. thick gypsum board applied vertically - SHEETROCK Brand FIRECODE Core (Type X) <p>Visit U457 U457</p>
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ACOUSTIC CONTROL- When the Pre-check building is site adapted, the building and site features need to comply with the CALGreen Code, Section 5.507.4 for the specific site location, and when PC building is place adjacent to another PC building, the adjoining wall section for interior sound transmission must meet the minimum requirement of a STC rating of 40 (per 2022 CALGreen Code, Section 507.4.3).

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL
301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code.
301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 3 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all locally enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development or sale.
5.106.4 BICYCLE PARKING. For buildings within the authority of the California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2.
5.106.5.3 ELECTRIC VEHICLE (EV) CHARGING. [N] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

5.106.5.3.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.3.1 for each EVCS may be reduced when served by an EVSE controlled by an ALMS.
5.106.5.3.4 Accessible EVCS. When EVSE is installed, accessible EVSE shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-228.3.
5.106.5.4 Electric Vehicle (EV) charging; medium-duty and heavy-duty. [N] Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply equipment (EVSE).
5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces.

TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]. Table with columns: BUILDING TYPE, BUILDING SIZE (SQ. FT.), NUMBER OF OFF-STREET LOADING SPACES, ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS. Table with columns: ALLOWABLE RATING, LIGHTING ZONE LZ0, LIGHTING ZONE LZ1, LIGHTING ZONE LZ2, LIGHTING ZONE LZ3, LIGHTING ZONE LZ4.

MAXIMUM ALLOWABLE GLARE RATING (G). Table with columns: GLARE RATING (G), G1, G2, G3, G4.
1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the California Administrative Code.
2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section.
3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings.
5.106.8.1 Facing-Backlight. Luminaires within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
5.106.8.2 Facing-Glare. For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.
5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings.
5.106.12.1 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice.
5.106.12.2 Landscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.
5.106.12.3 Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.
DIVISION 5.2 ENERGY EFFICIENCY
SECTION 5.201 GENERAL
5.201.1 Scope [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.
DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION
SECTION 5.301 GENERAL
5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.
SECTION 5.302 DEFINITIONS
5.302.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference):
EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which are two major influences on the amount of water that needs to be applied to the landscape.
FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.
METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.
GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.
MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.
MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.
POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.
POTABLE WATER, [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.
RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.
SUBMETER, [HCD] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multifamily residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)
WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS [] FLS [] ACS []
DATE: 09/28/2023

R & S TAVARES ASSOCIATES
DESIGN & CONSULTING
11500 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
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ORIGINAL PC STATE AGENCY APPROVAL
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APP. 04-121368 PC
REVIEWED FOR
SS [] FLS [] ACS [] CG []
DATE: 09/22/2023

Revision Schedule
Description Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
CAL GREEN CHECKLIST

PROJECT NUMBER
22088

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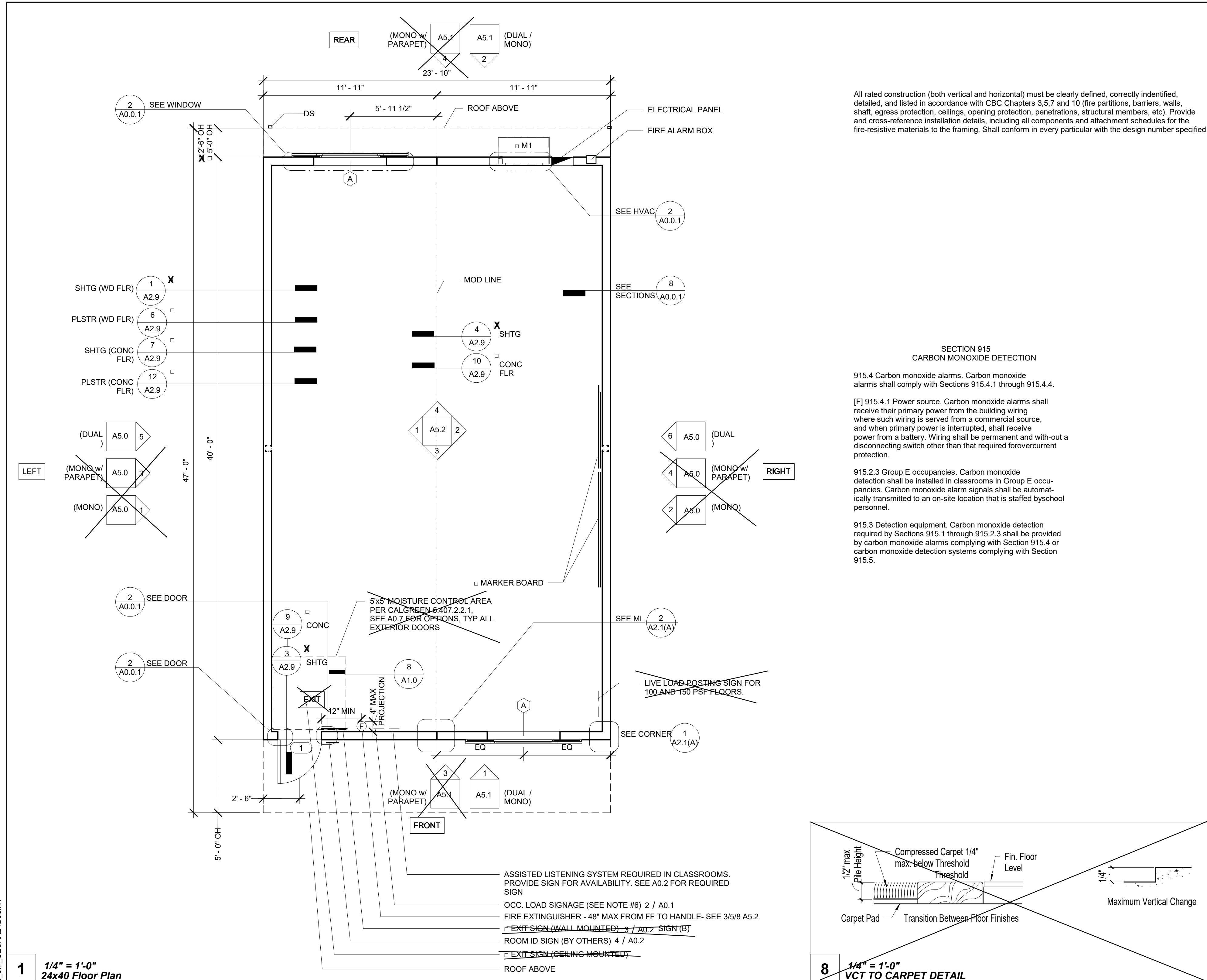
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DATE

SHEET NO.
A0.6
SHEET OF

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1 1/4" = 1'-0"
24x40 Floor Plan

All rated construction (both vertical and horizontal) must be clearly defined, correctly identified, detailed, and listed in accordance with CBC Chapters 3.5.7 and 10 (fire partitions, barriers, walls, shaft, egress protection, ceilings, opening protection, penetrations, structural members, etc). Provide and cross-reference installation details, including all components and attachment schedules for the fire-resistive materials to the framing. Shall conform in every particular with the design number specified

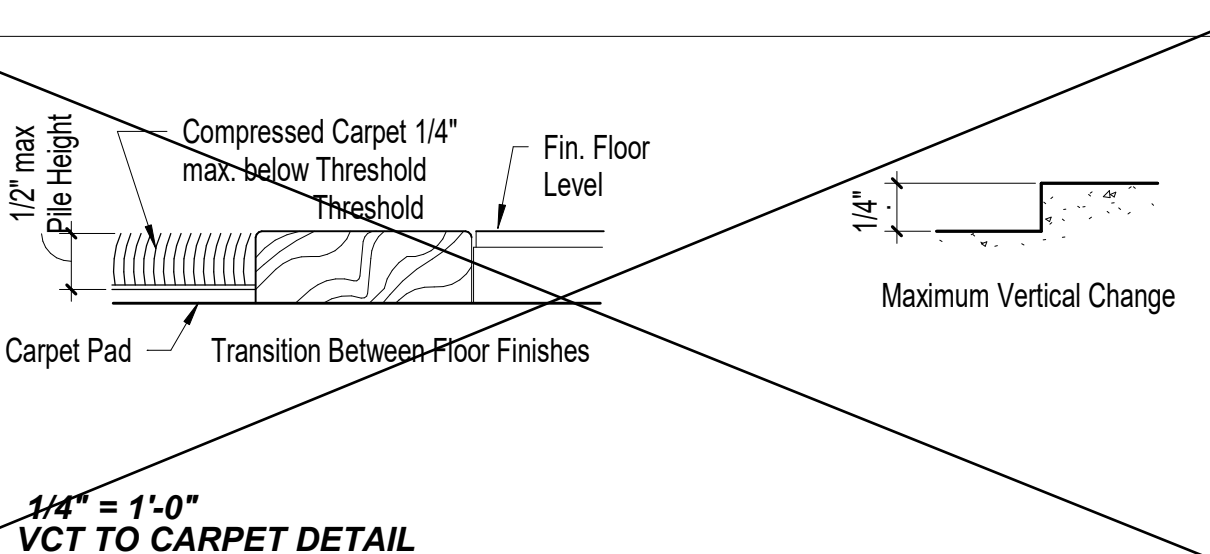
**SECTION 915
CARBON MONOXIDE DETECTION**

915.4 Carbon monoxide alarms. Carbon monoxide alarms shall comply with Sections 915.4.1 through 915.4.4.

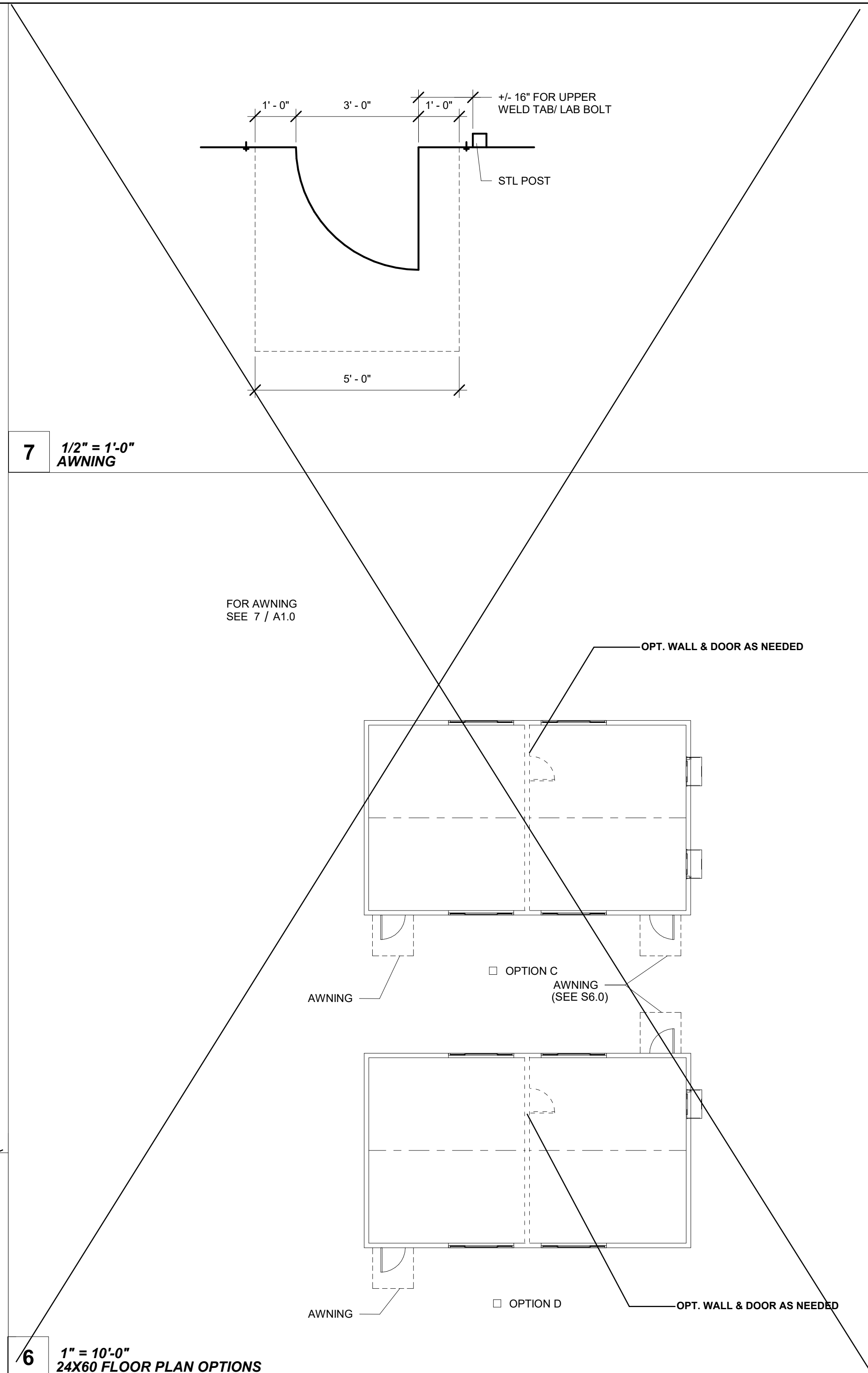
[F] 915.4.1 Power source. Carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source, and when primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and with-out a disconnecting switch other than that required for overcurrent protection.

915.2.3 Group E occupancies. Carbon monoxide detection shall be installed in classrooms in Group E occupancies. Carbon monoxide alarm signals shall be automatically transmitted to an on-site location that is staffed by school personnel.

915.5 Detection equipment. Carbon monoxide detection required by Sections 915.1 through 915.2.3 shall be provided by carbon monoxide alarms complying with Section 915.4 or carbon monoxide detection systems complying with Section 915.5.



8 1/4" = 1'-0"
VCT TO CARPET DETAIL



6 1" = 10'-0"
24X60 FLOOR PLAN OPTIONS

5 1/4" = 1'-0"
Wall Schedule

Stud Size	Sheet	Notes
X Wood Wall Stud	S4.5	

FOR BURNING CHARACTERISTIC SEE 3 / A0.1

4 1/4" = 1'-0"
Fire Rating Schedule

Rating	Sheet	Notes
1 HOUR - SIDING OVER WD STUDS	A2.5	X
1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY w/ WD STUDS	A2.6	

SEE A3.0 FOR ADDITIONAL FIRE ASSEMBLY NOTES AND DETAILS

3 1/4" = 1'-0"
Ext. Finish Schedule

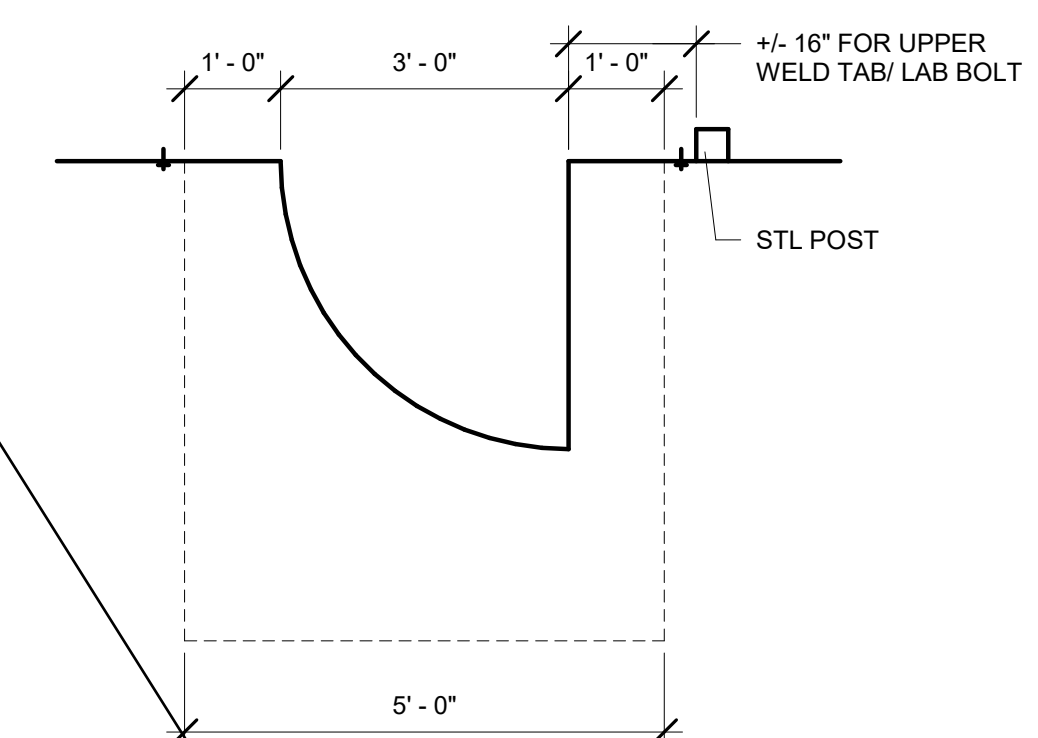
Finishes	Sheet	Notes
X SIDING OVER WD STUDS	A2.1	
PLASTER OVER 1/2" OSB OR 1/2" CDX PLY w/ WD STUDS	A2.2	

Roofing Schedule

"SLOPE"	EDPM	Standing Seam	Parapet	Notes
Dual	<input type="checkbox"/> A4.2.2	X A4.0.2	N/A	
Mono	<input type="checkbox"/> A4.2.1	<input type="checkbox"/> A4.0.1	<input type="checkbox"/> A4.4.1	

HVAC Unit

Keynote	Type	Type Comments
X M1	Wall Mounted HVAC	See (M)-Sheets
<input type="checkbox"/> M2	Roof Mounted HVAC	See (M)-Sheets



7 1/2" = 1'-0"
AWNING

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APP. 04-122805 INC.
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03/31/24
STATE OF CALIFORNIA
05/24/23
RST#22088

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APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
24x40 FLOOR PLAN

PROJECT NUMBER
22088

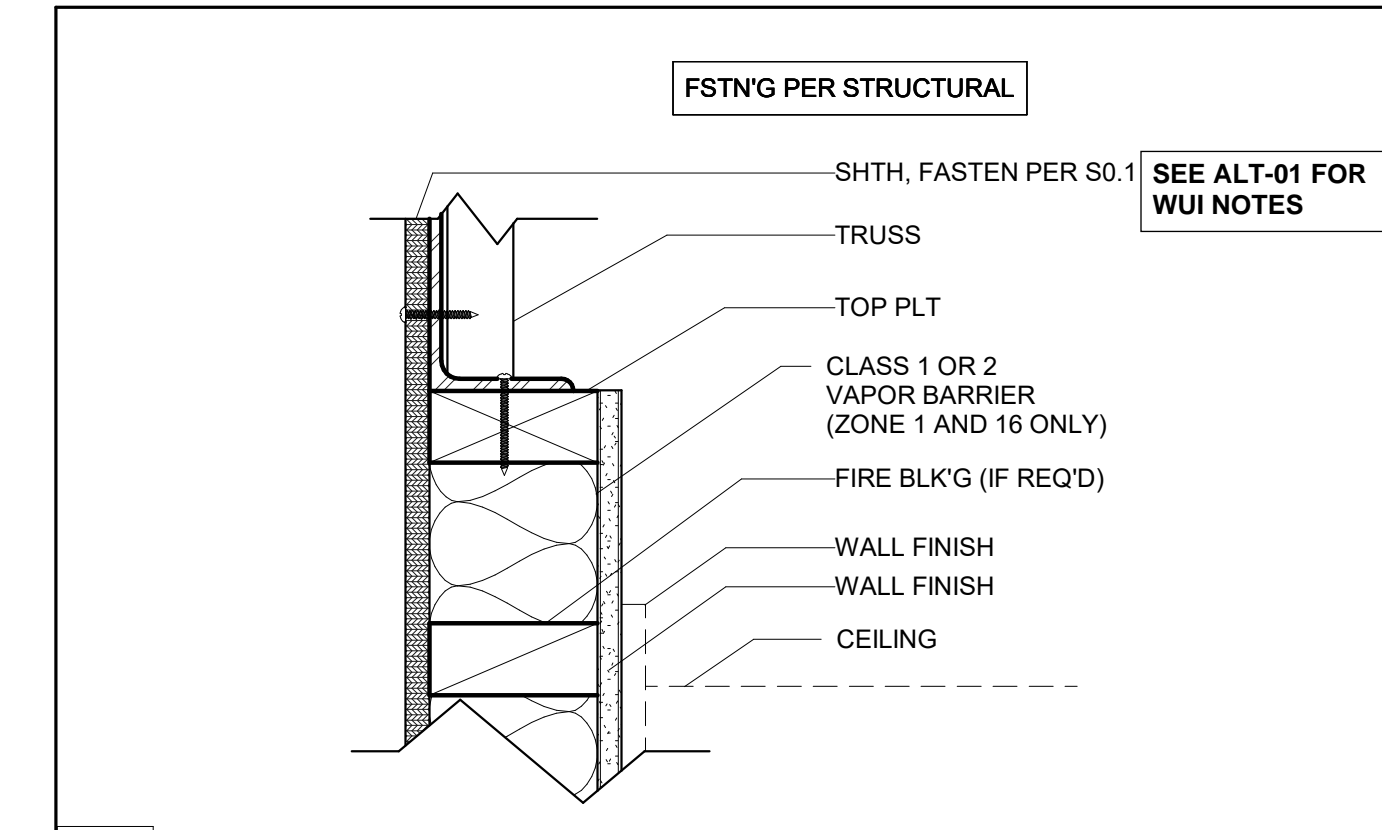
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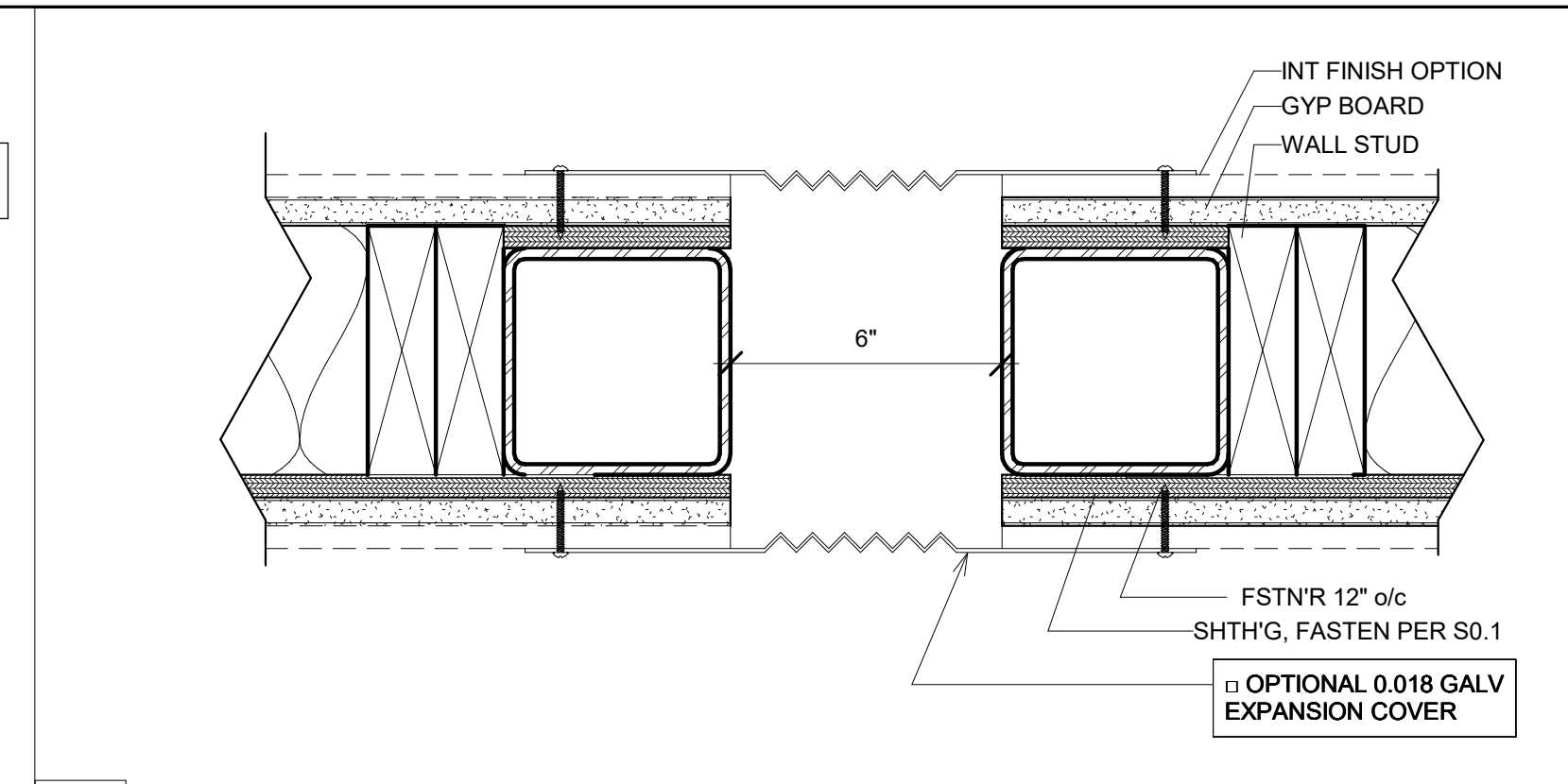
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A1.0

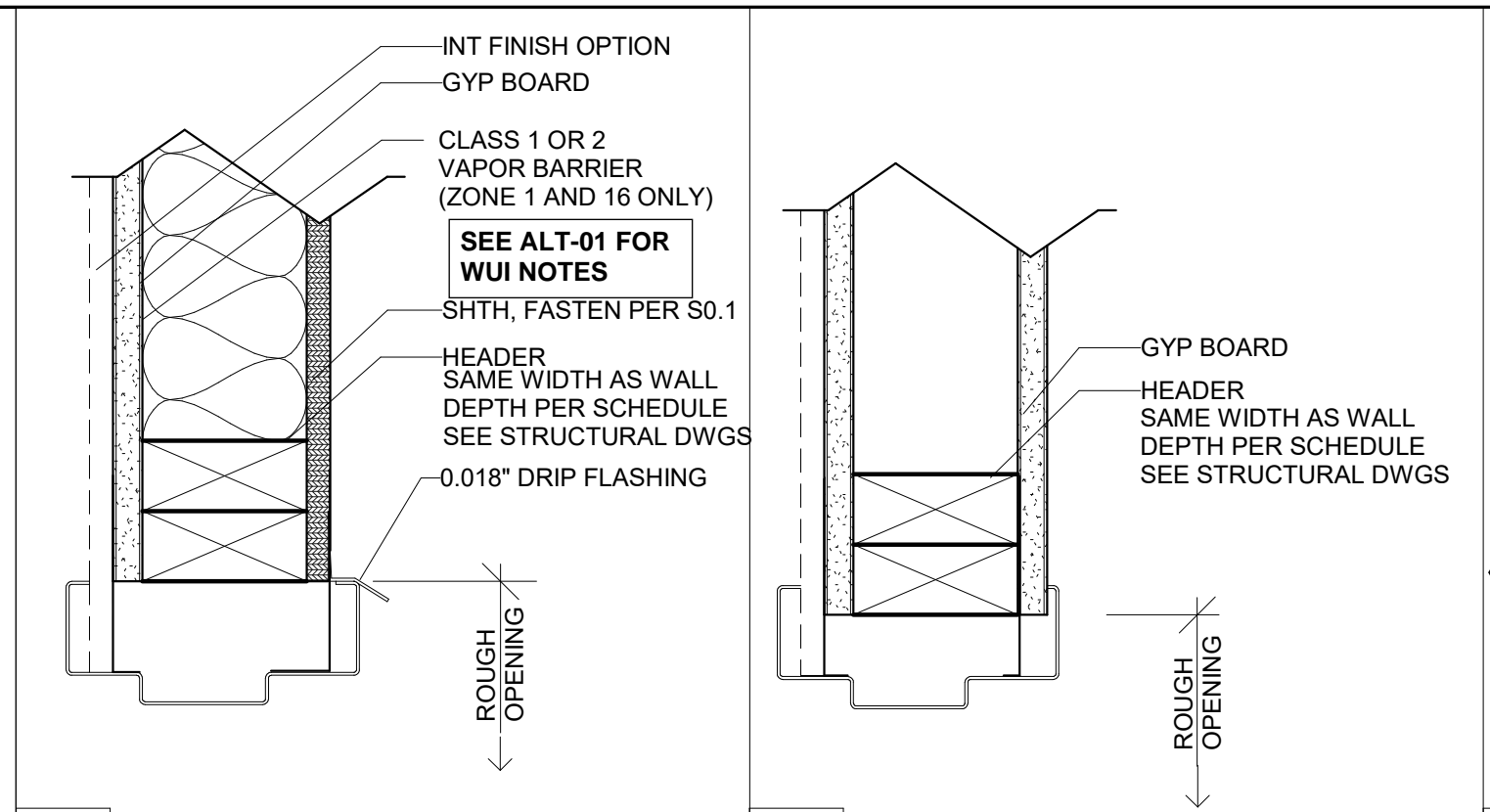
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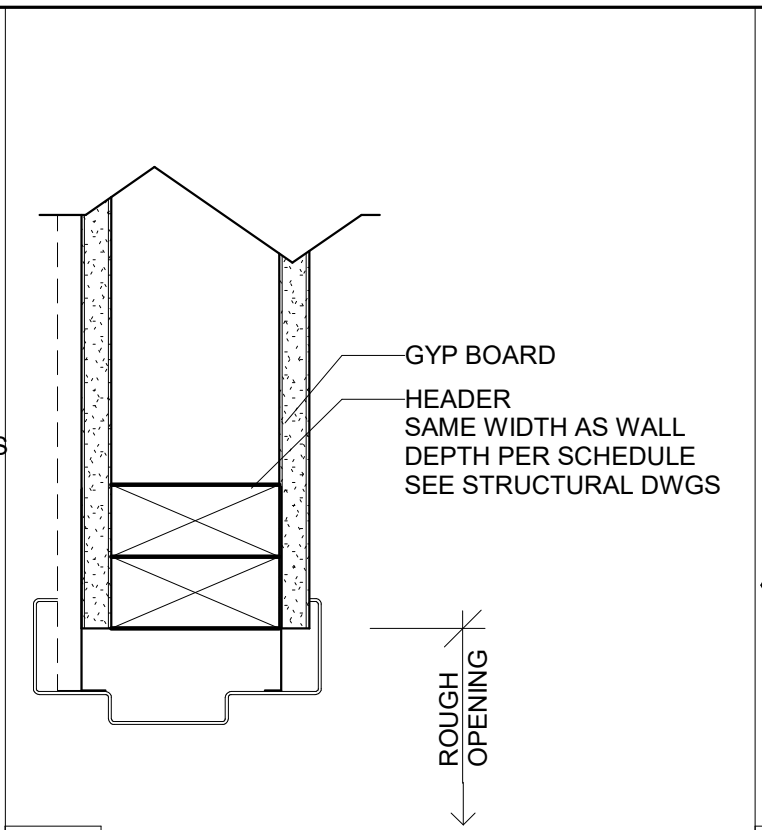
17 3" = 1'-0" Section - Top Plate Shtg Finish



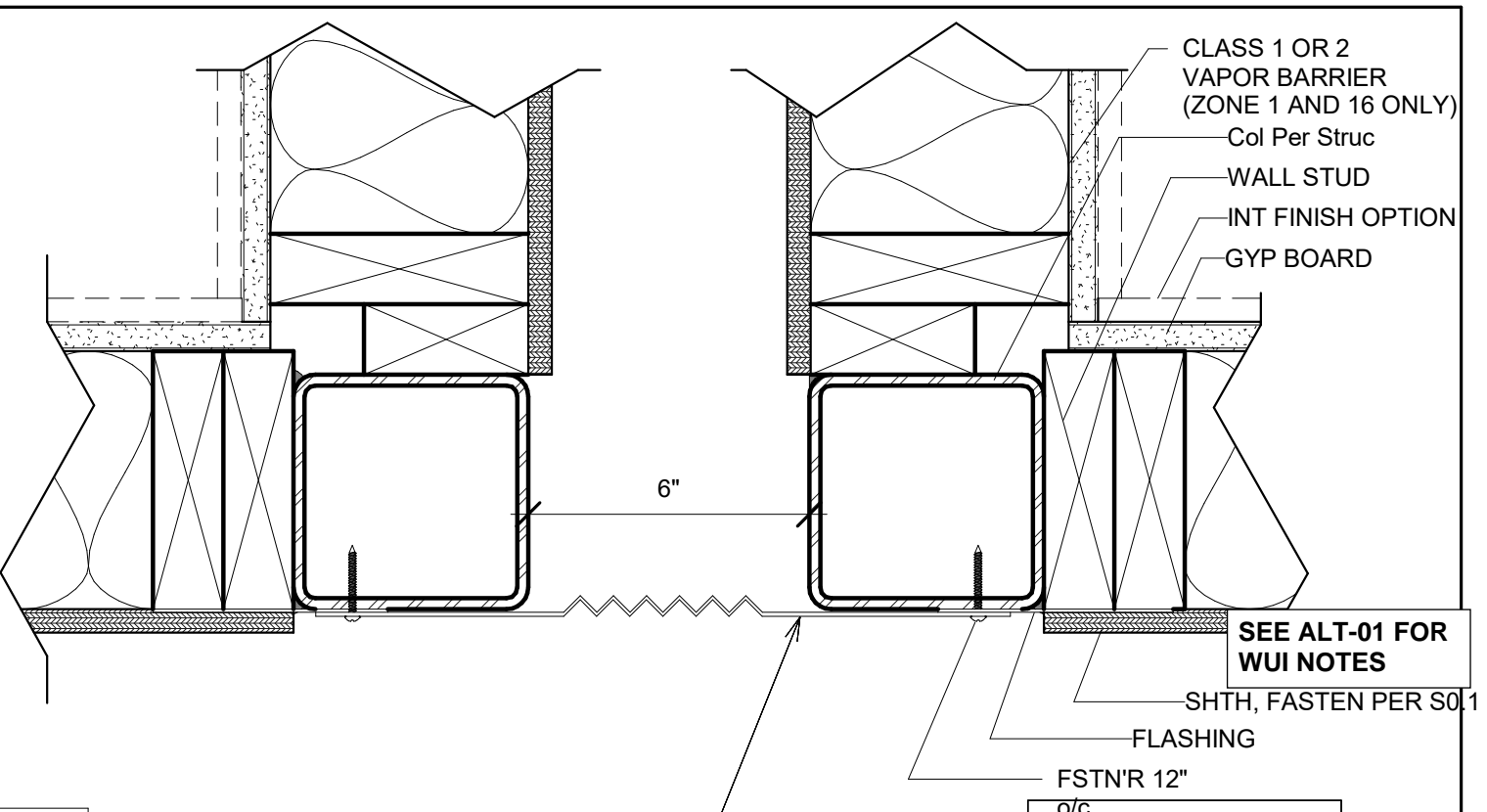
18 3" = 1'-0" Plan - Interior Wall "OPEN" (6" Sep.) Shtg Finish



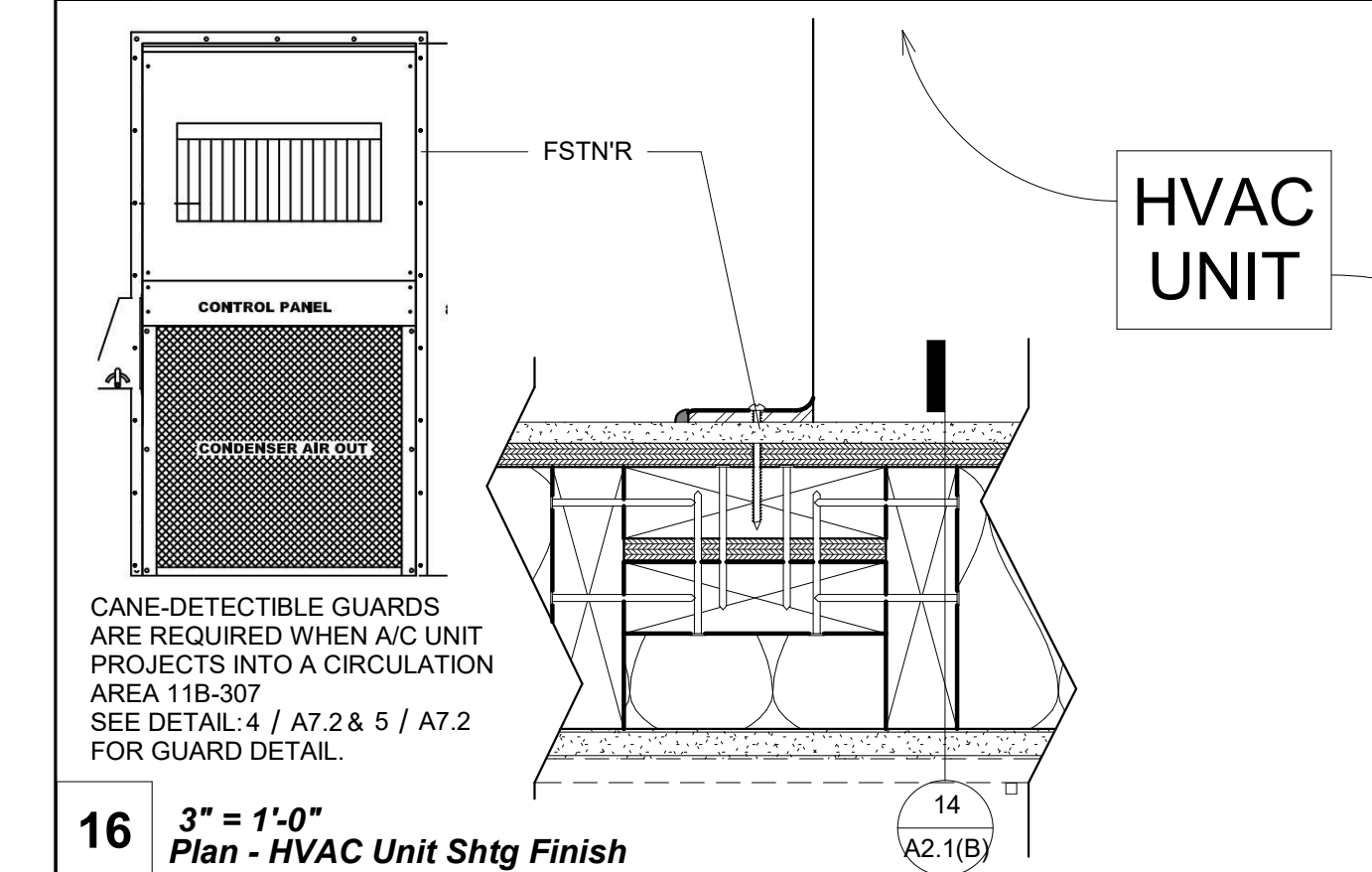
10A 3" = 1'-0" Section - Ext Wall Hdr Door Shtg Finish



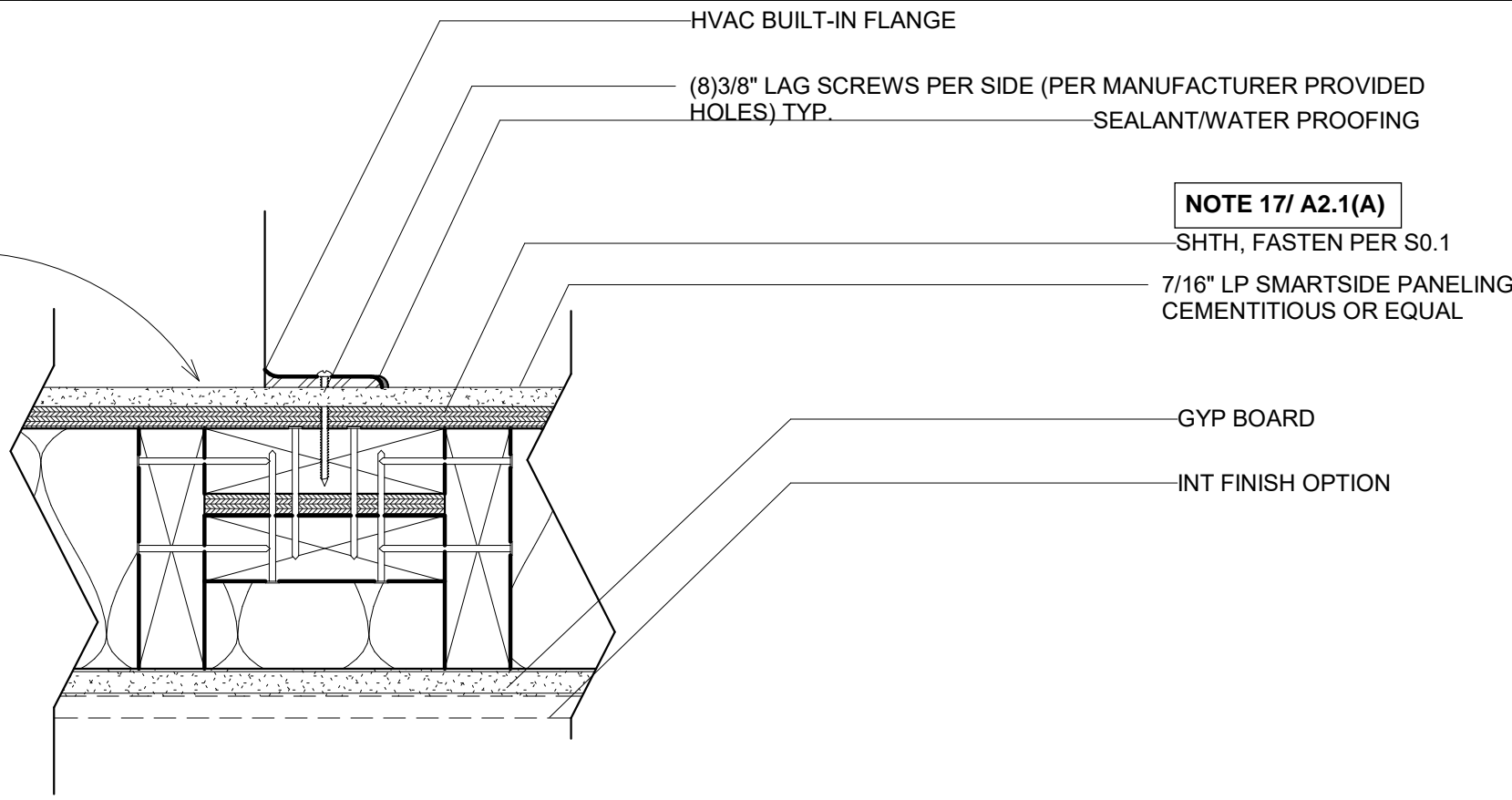
10B 3" = 1'-0" Section - Int Wall Hdr Door Shtg Finish



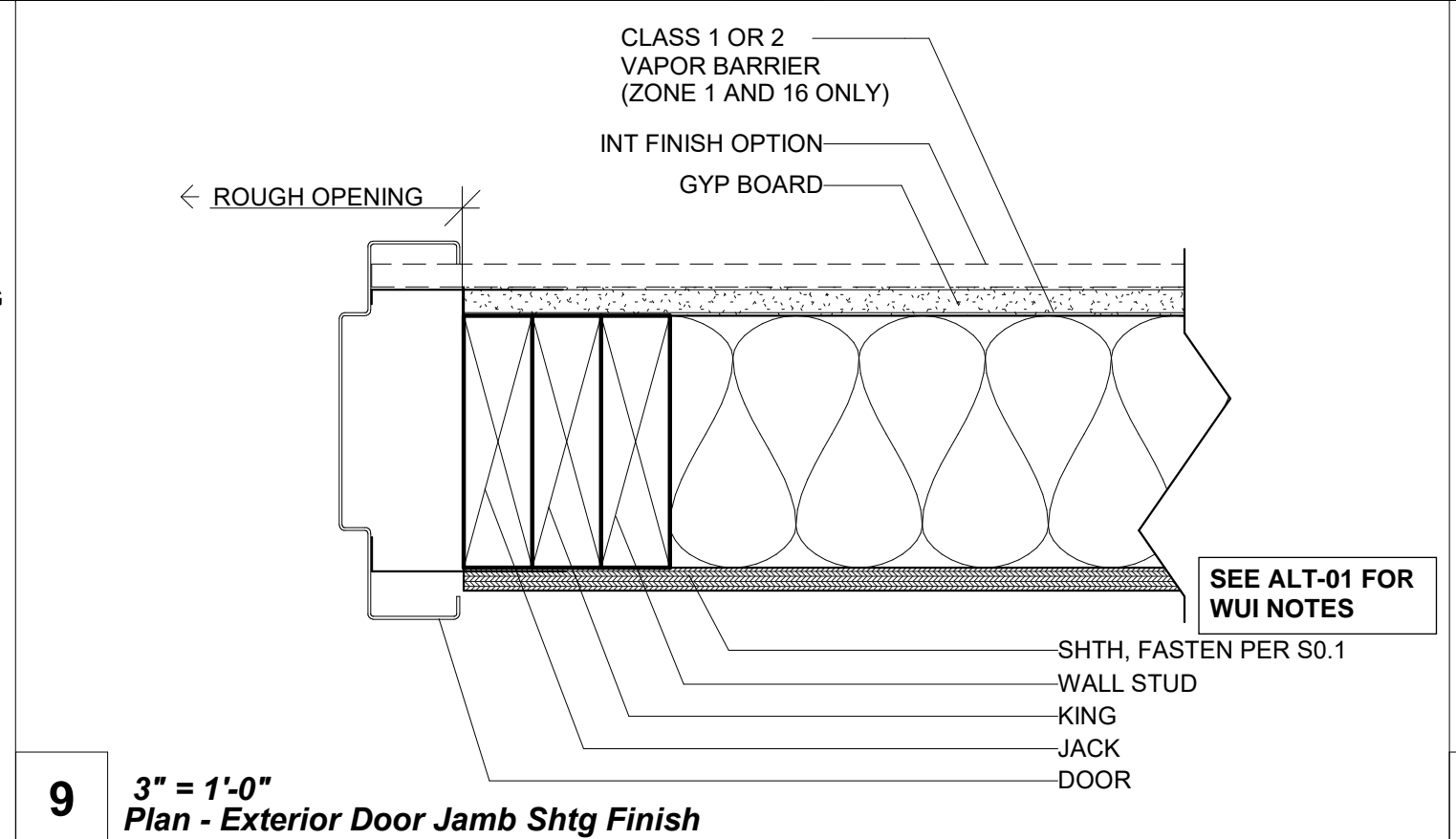
5 3" = 1'-0" Plan - Mateline (6" Sep.) Shtg Finish



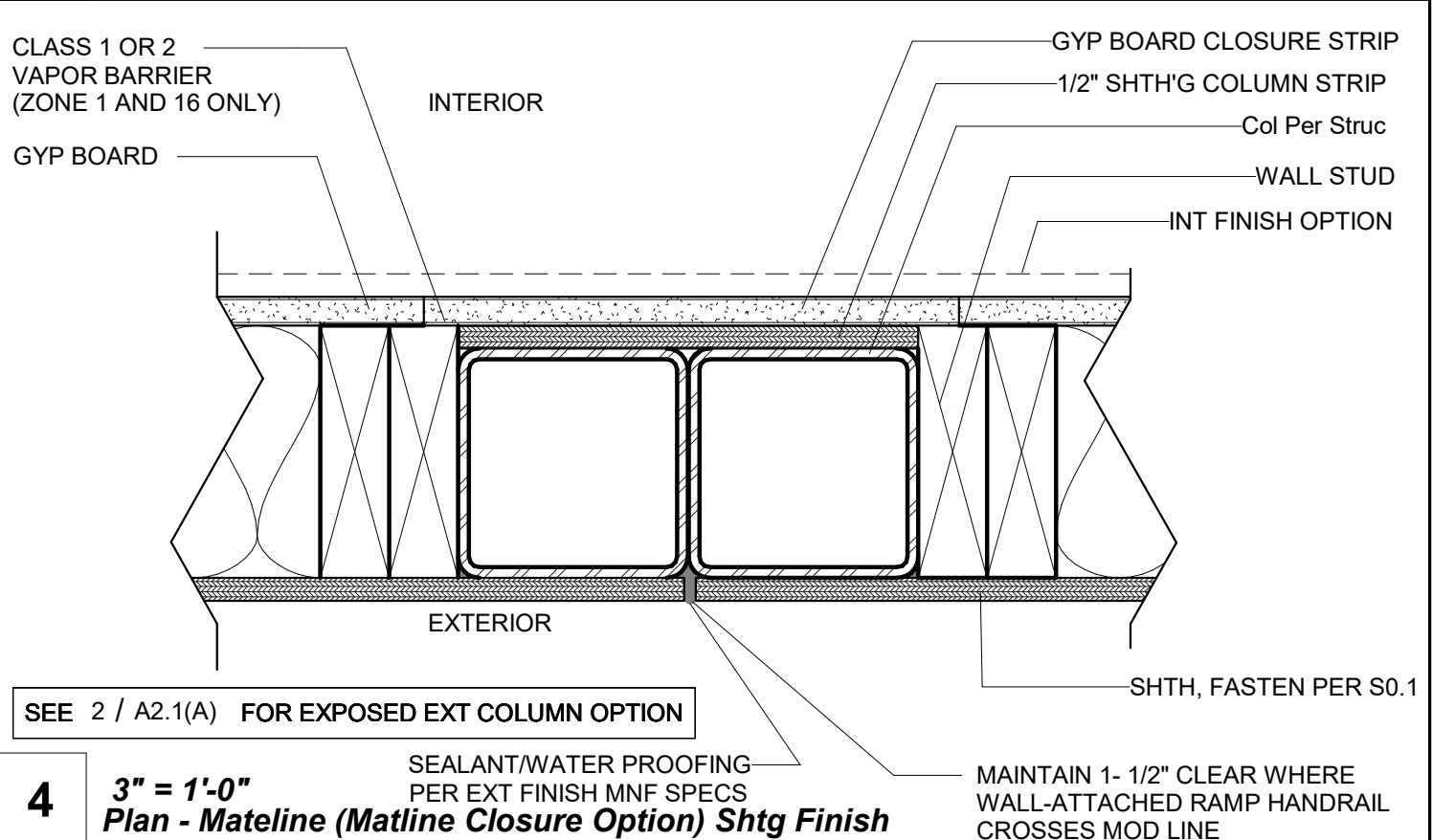
16 3" = 1'-0" Plan - HVAC Unit Shtg Finish



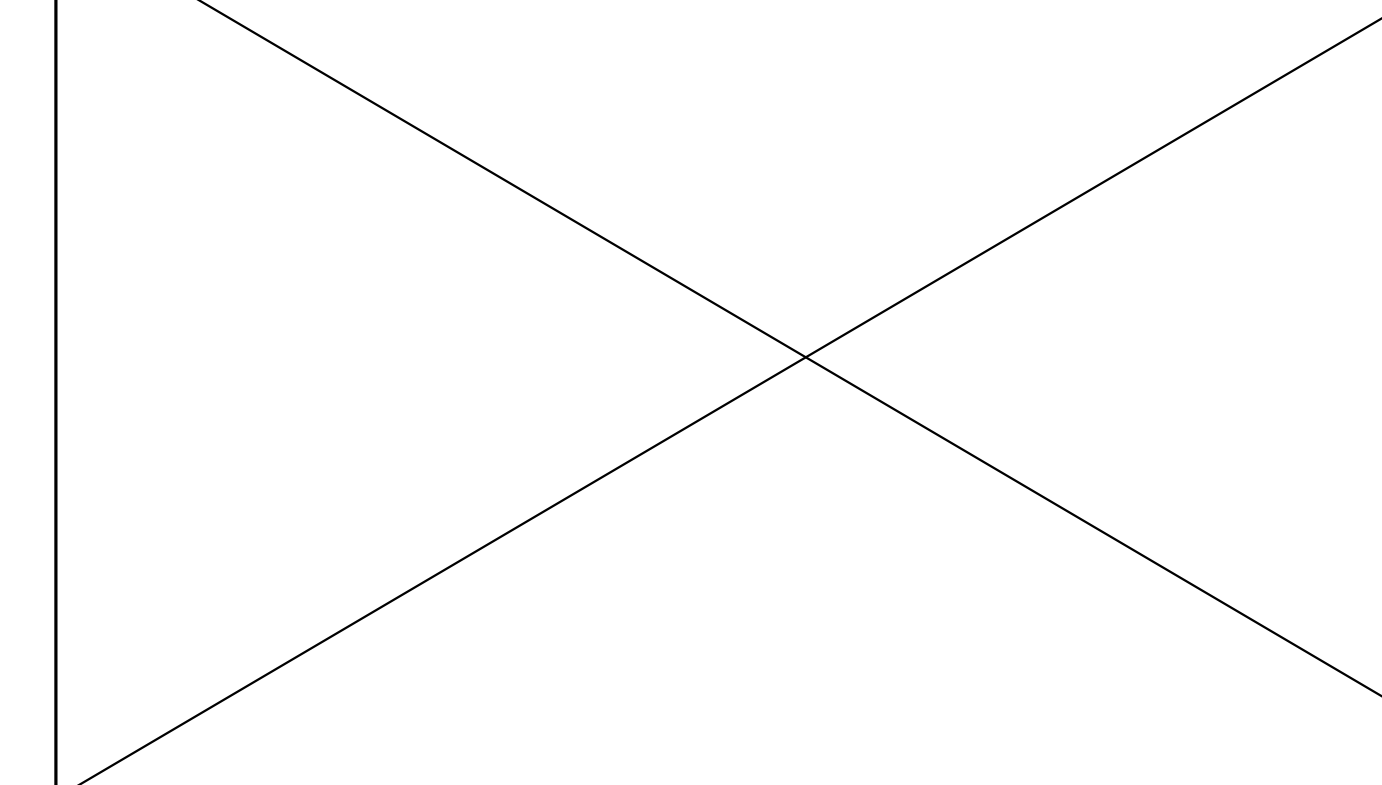
14 3" = 1'-0" Section - Ext Wall @ HVAC Shtg Finish



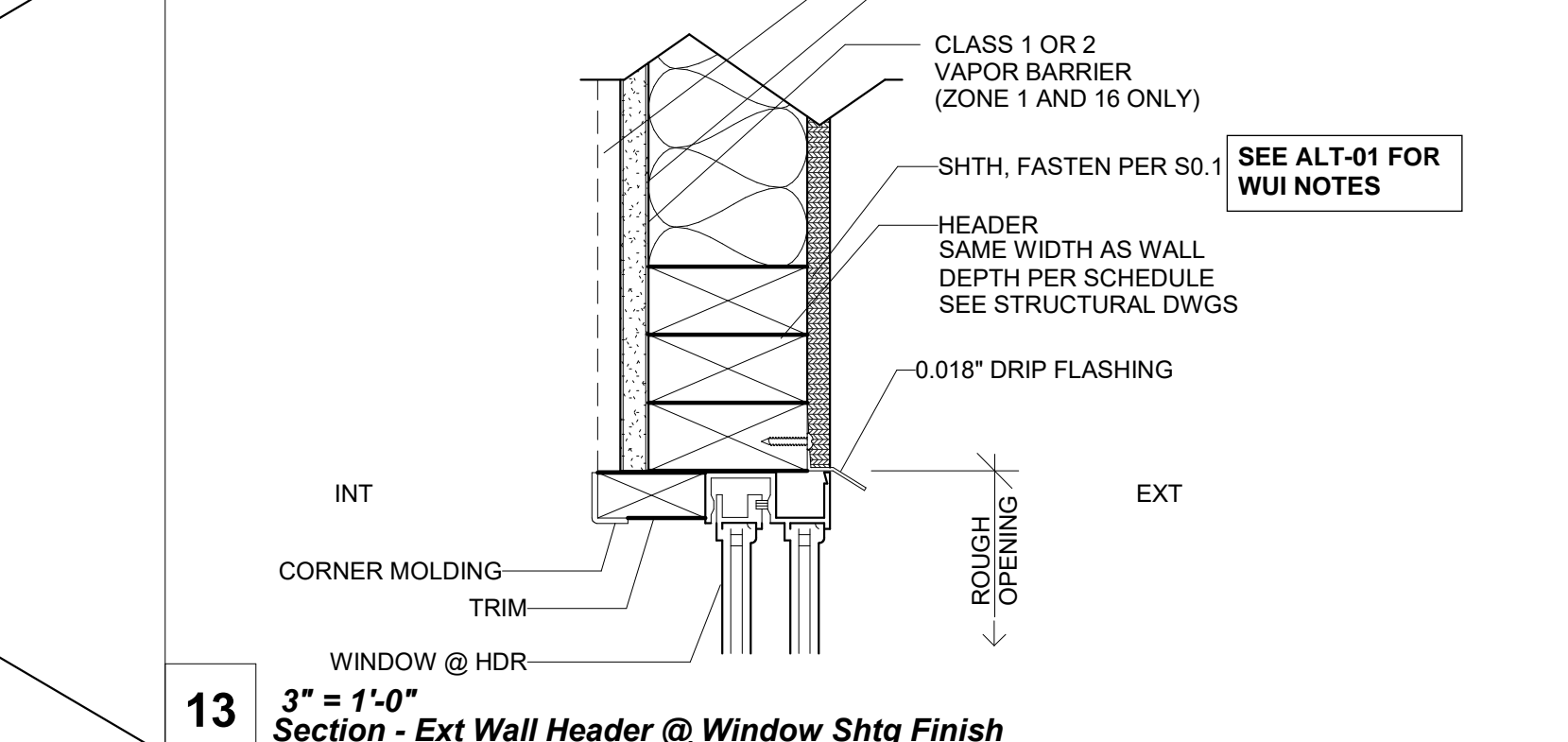
9 3" = 1'-0" Plan - Exterior Door Jamb Shtg Finish



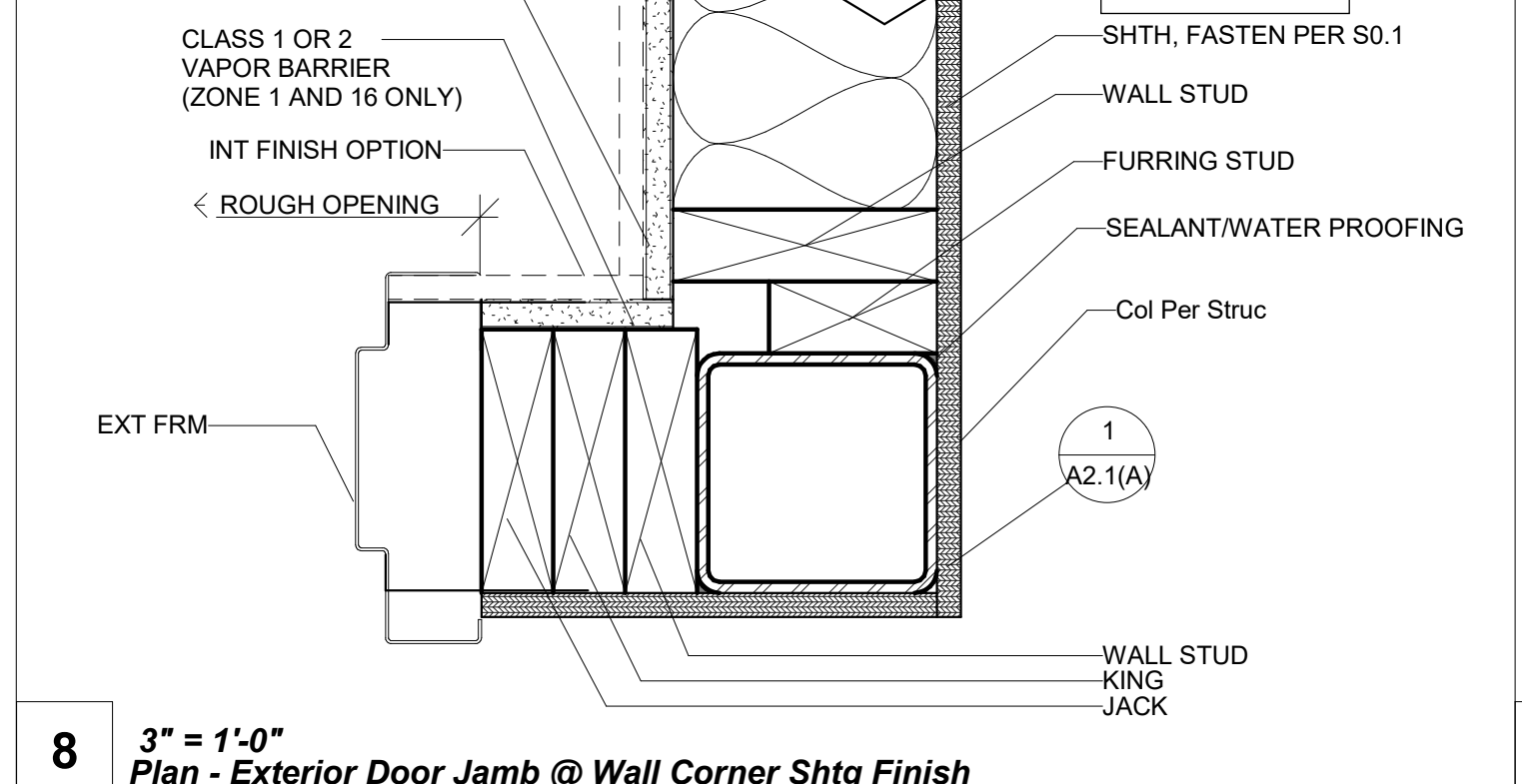
4 3" = 1'-0" Plan - Mateline (Matline Closure Option) Shtg Finish



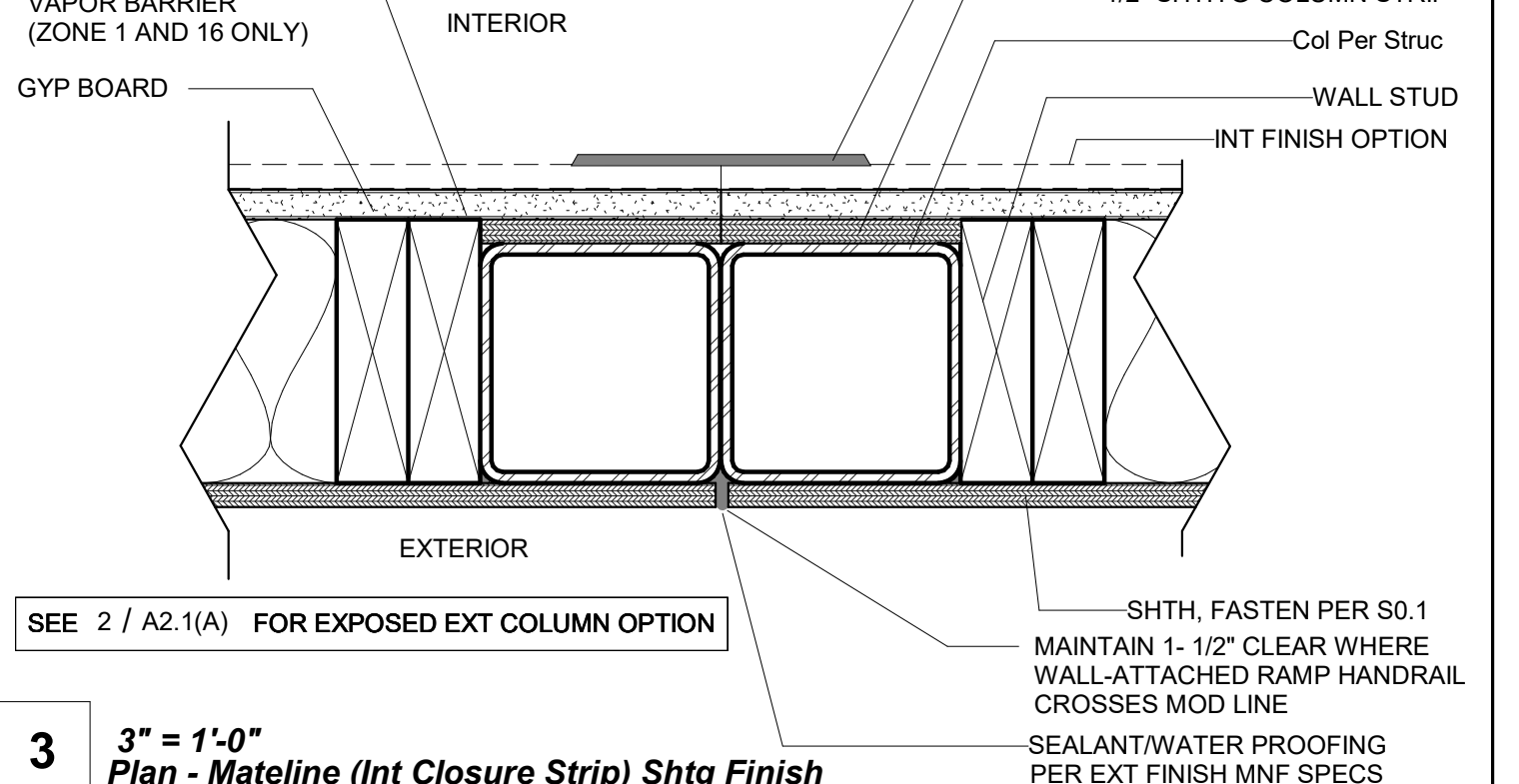
13 3" = 1'-0" Section - Ext Wall Header @ Window Shtg Finish



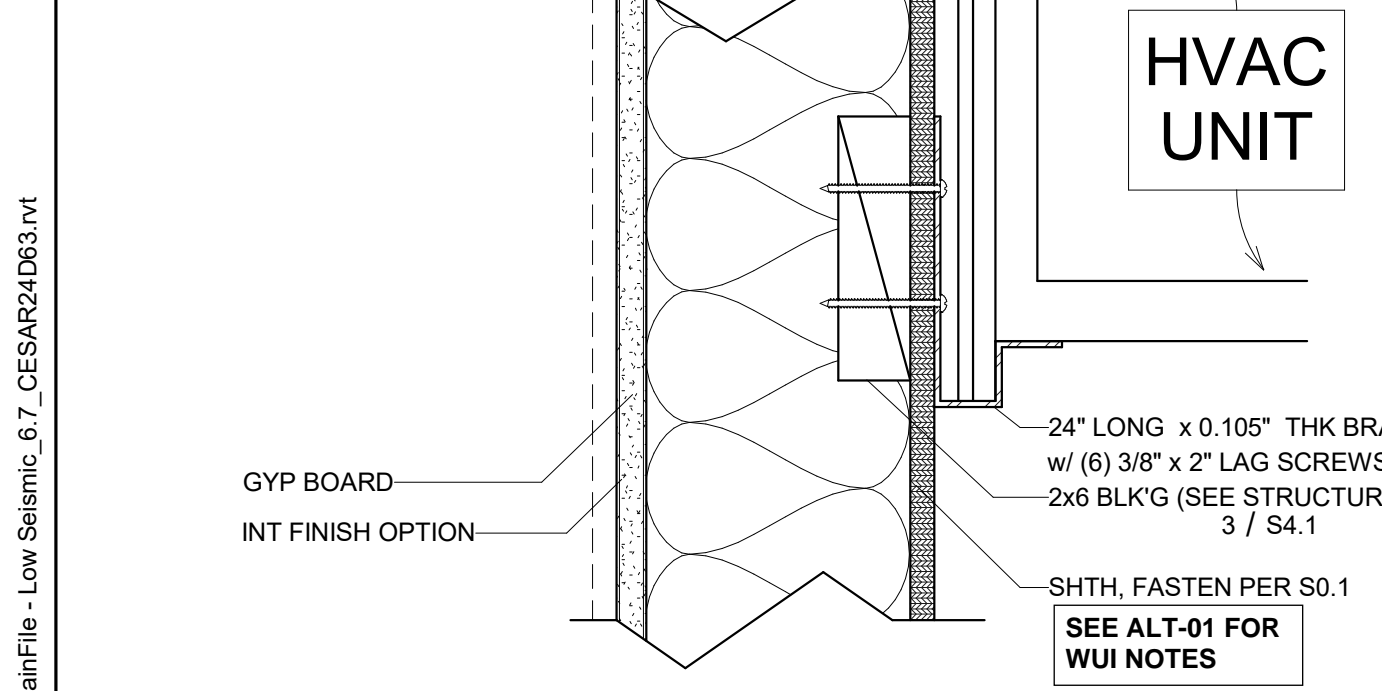
8 3" = 1'-0" Plan - Exterior Door Jamb @ Wall Corner Shtg Finish



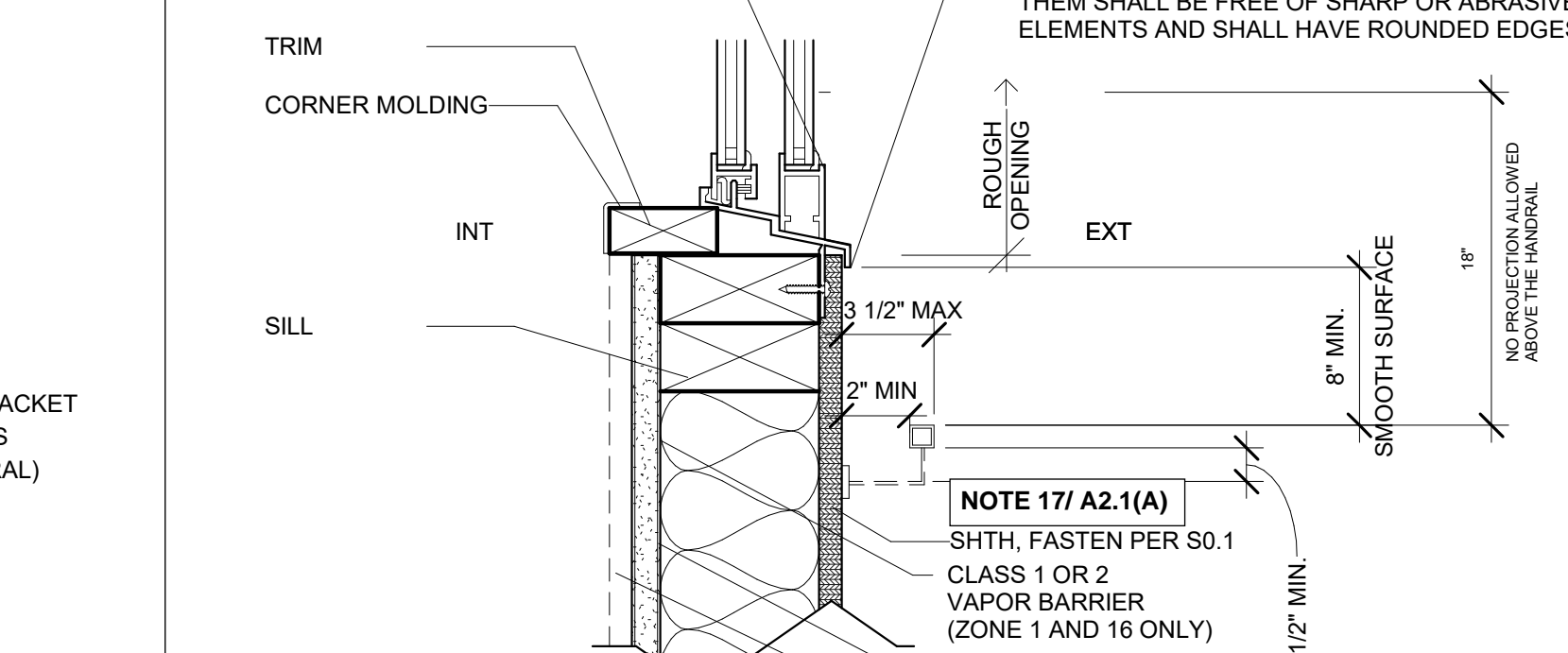
7 3" = 1'-0" Plan - Interior Door Jamb @ Wall Corner Shtg Finish



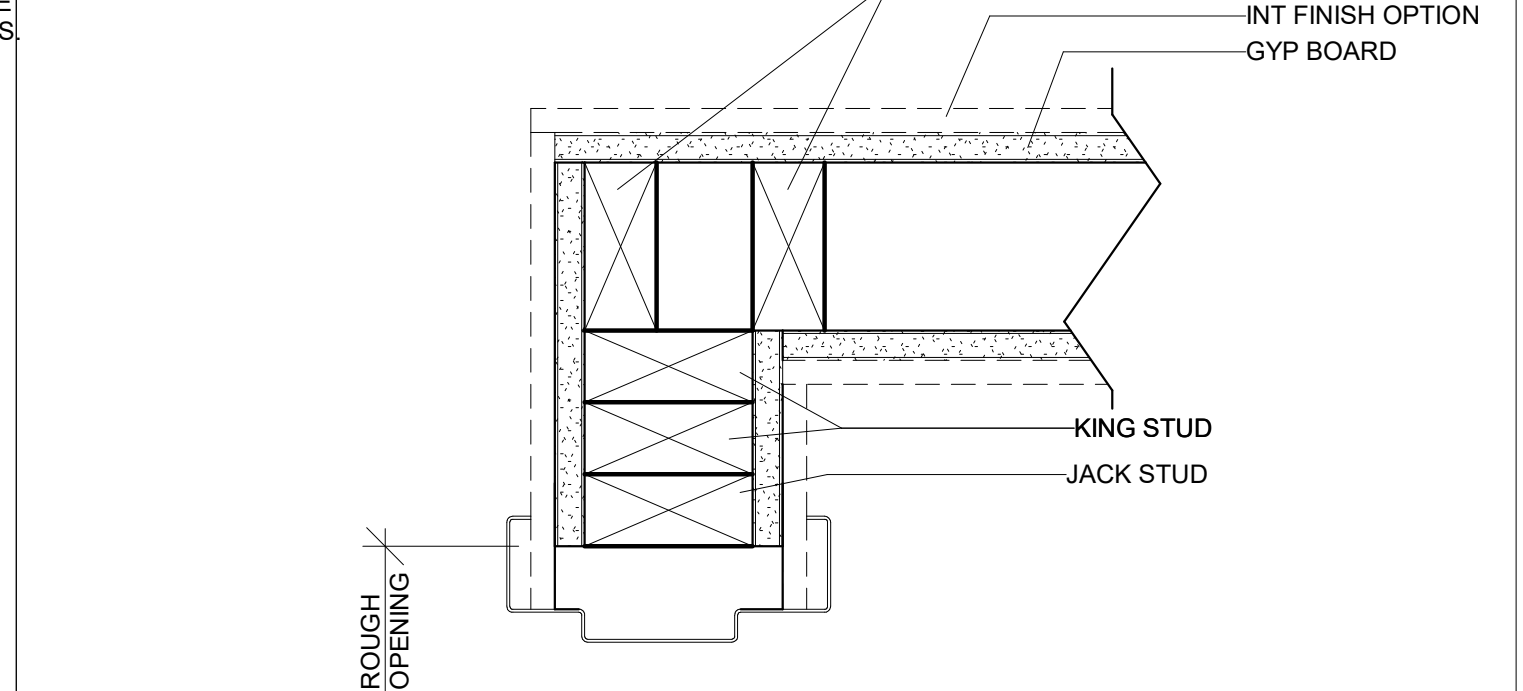
3 3" = 1'-0" Plan - Mateline (Int Closure Strip) Shtg Finish



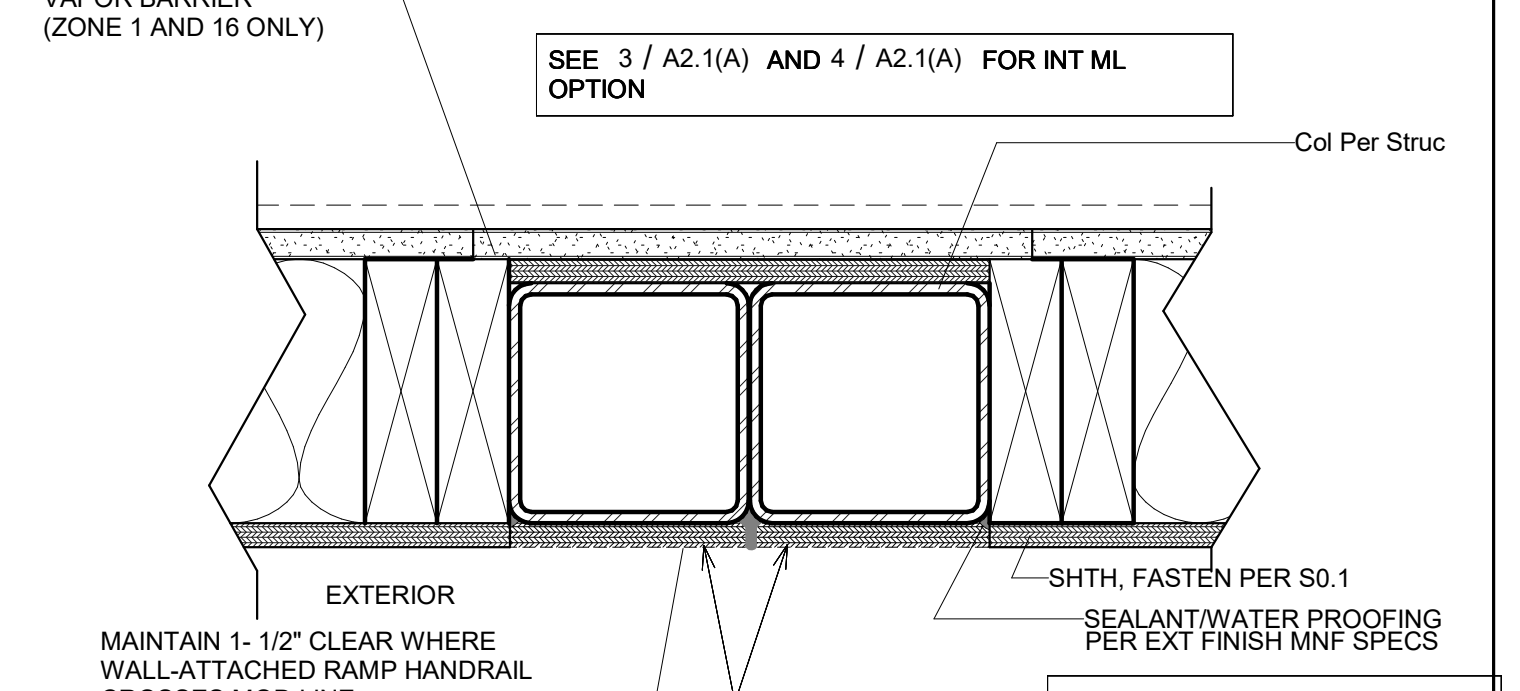
12 3" = 1'-0" Section - Ext Wall Sill @ Window Shtg Finish



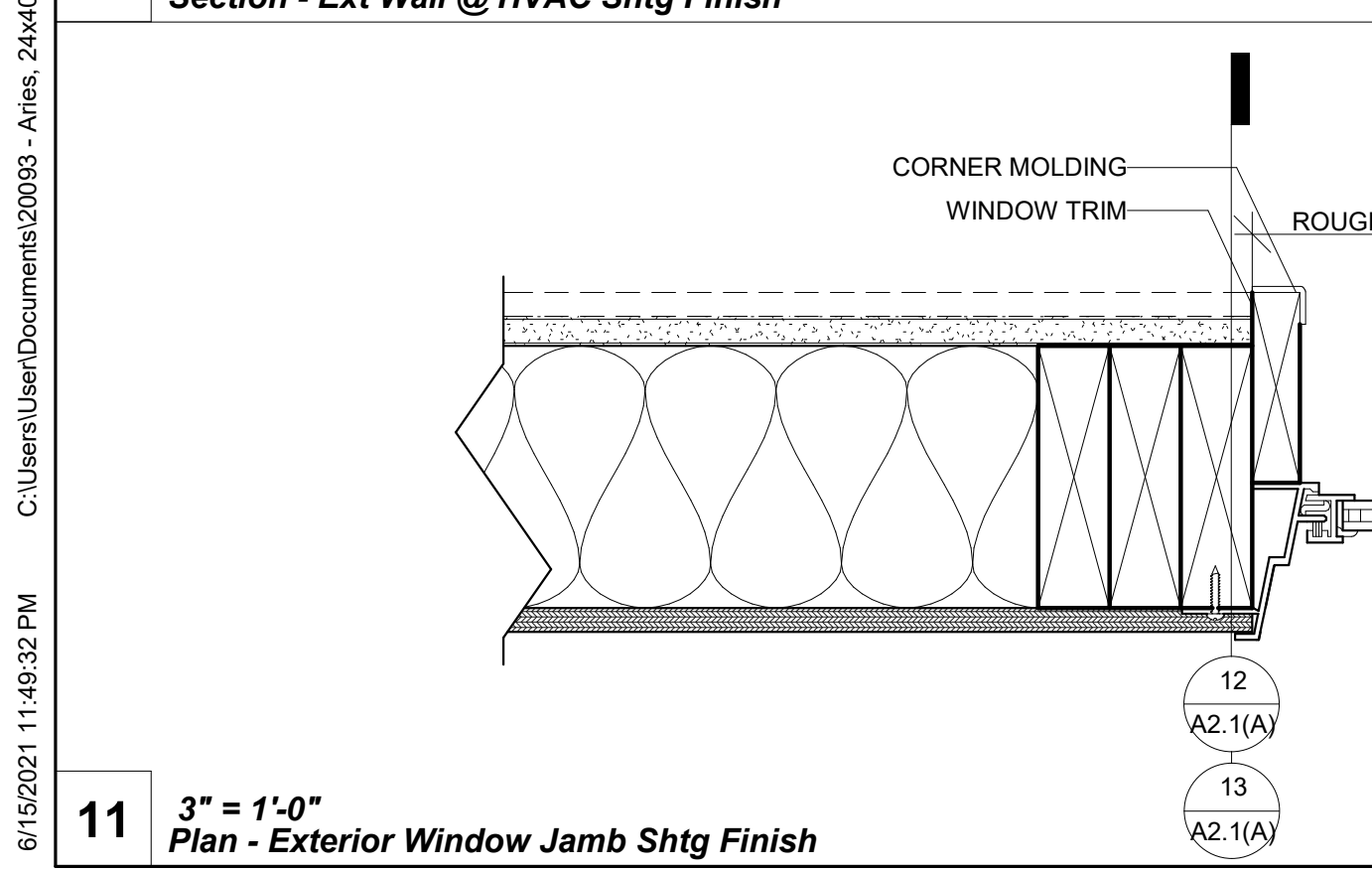
11 3" = 1'-0" Plan - Exterior Window Jamb Shtg Finish



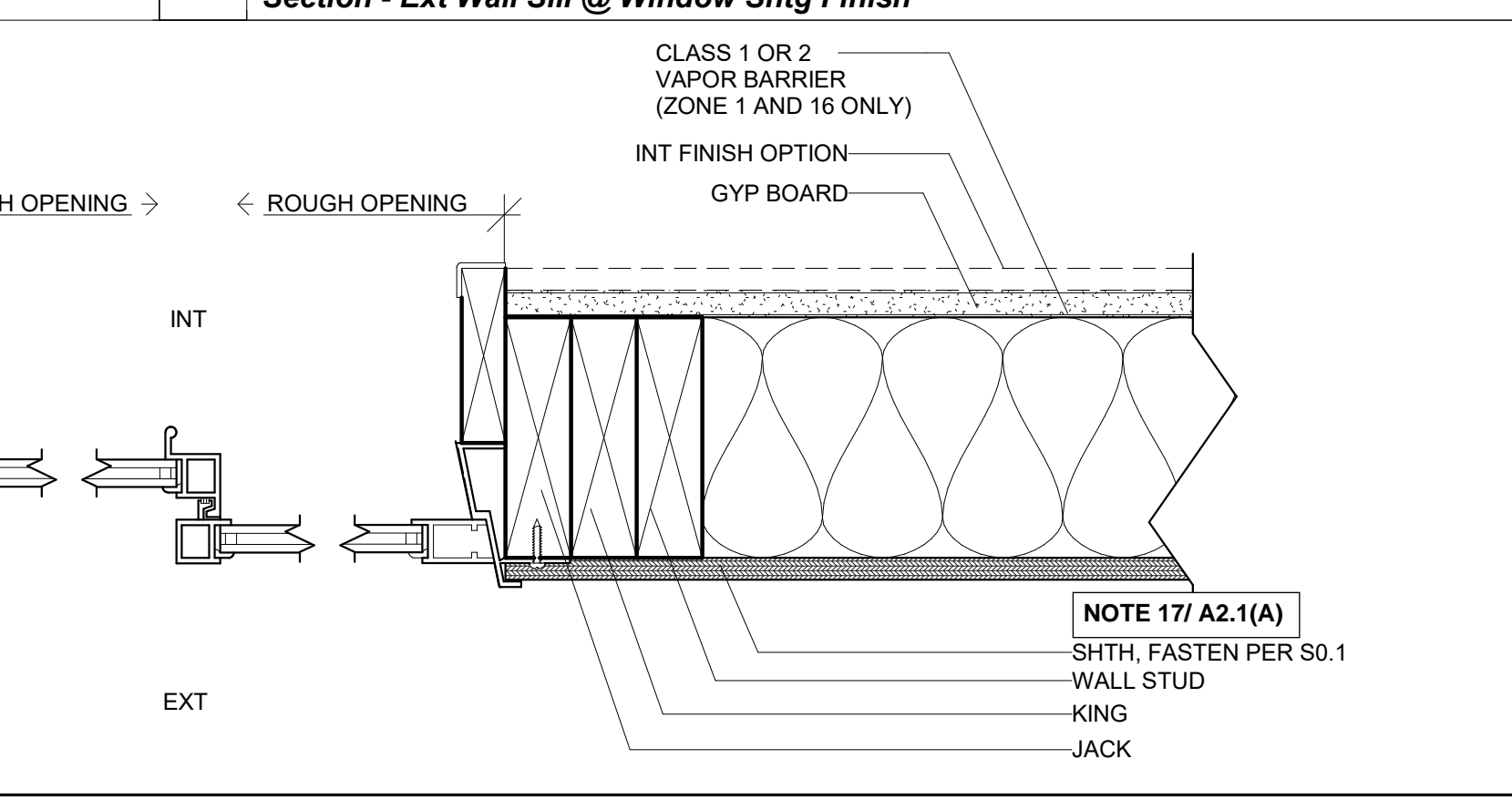
2 3" = 1'-0" Plan - Mateline (ext exposed column mateline) Shtg Finish



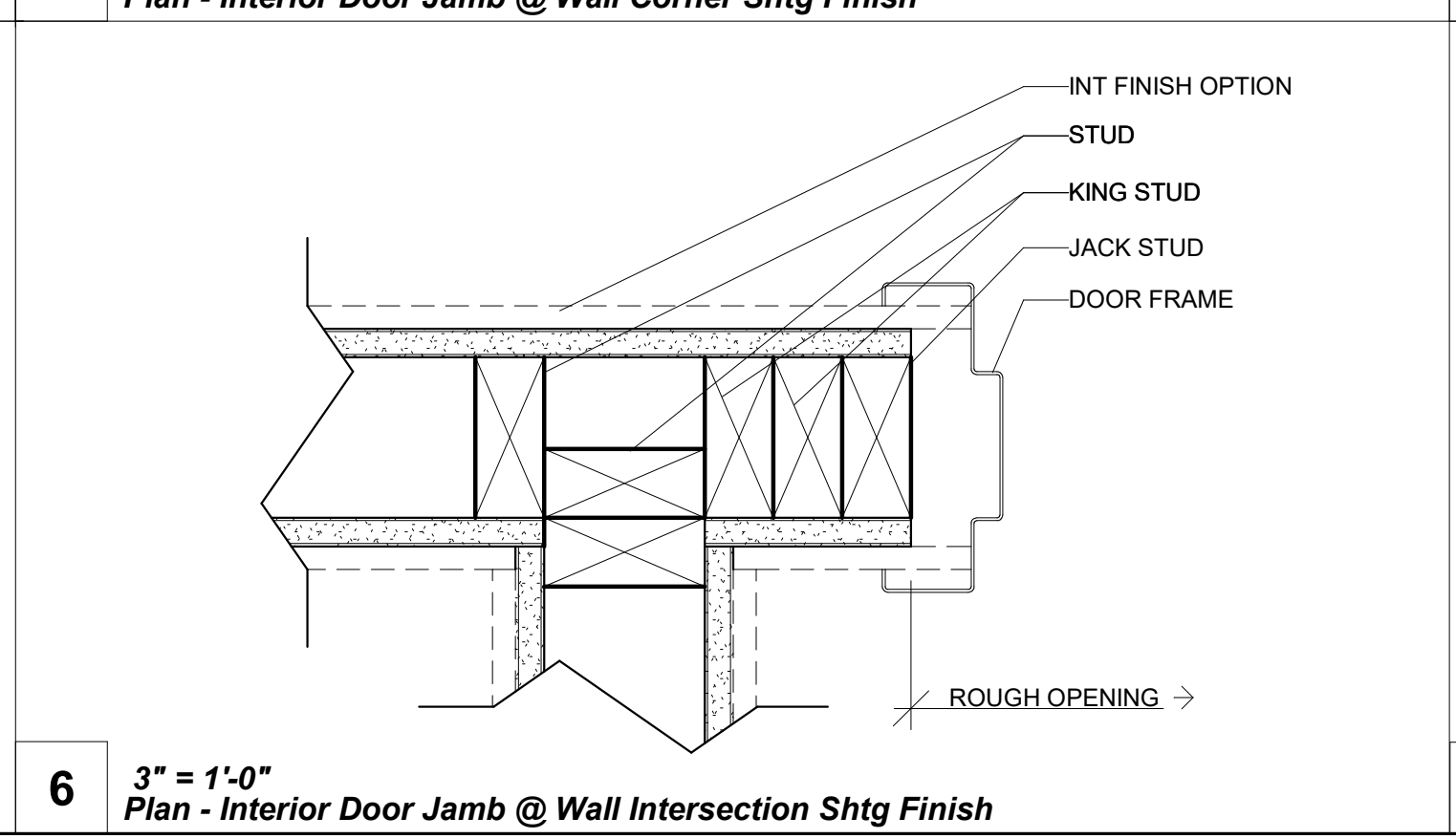
1 3" = 1'-0" Plan - Column @ Corner (ext exposed column option) Shtg Finish



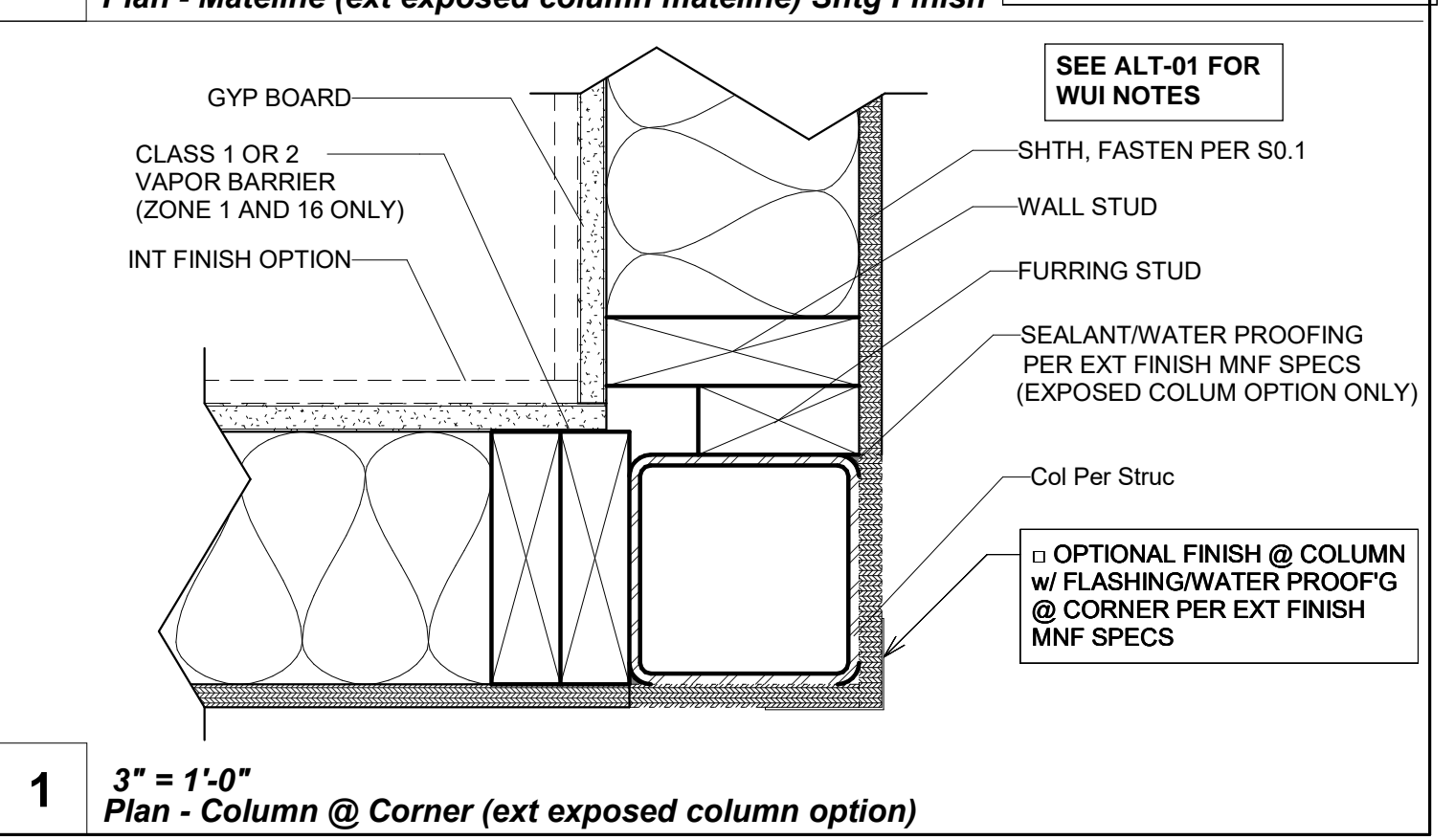
10 3" = 1'-0" Plan - Interior Door Jamb @ Wall Intersection Shtg Finish



6 3" = 1'-0" Plan - Interior Door Jamb @ Wall Intersection Shtg Finish



1 3" = 1'-0" Plan - Column @ Corner (ext exposed column option) Shtg Finish



1 3" = 1'-0" Plan - Column @ Corner (ext exposed column option) Shtg Finish

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APP. 04-122805 INC.
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DATE: 09/28/2023

R&S TAVARES ASSOCIATES
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WWW.RSTAVARES.COM

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REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FLORES
03/31/24
PC 12345
STATE OF CALIFORNIA
05/24/23
RSTAV2088

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DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
ARCHITECTURAL
DETAILS
(WOOD FRAMING
SHTG FINISH)

PROJECT NUMBER
22088

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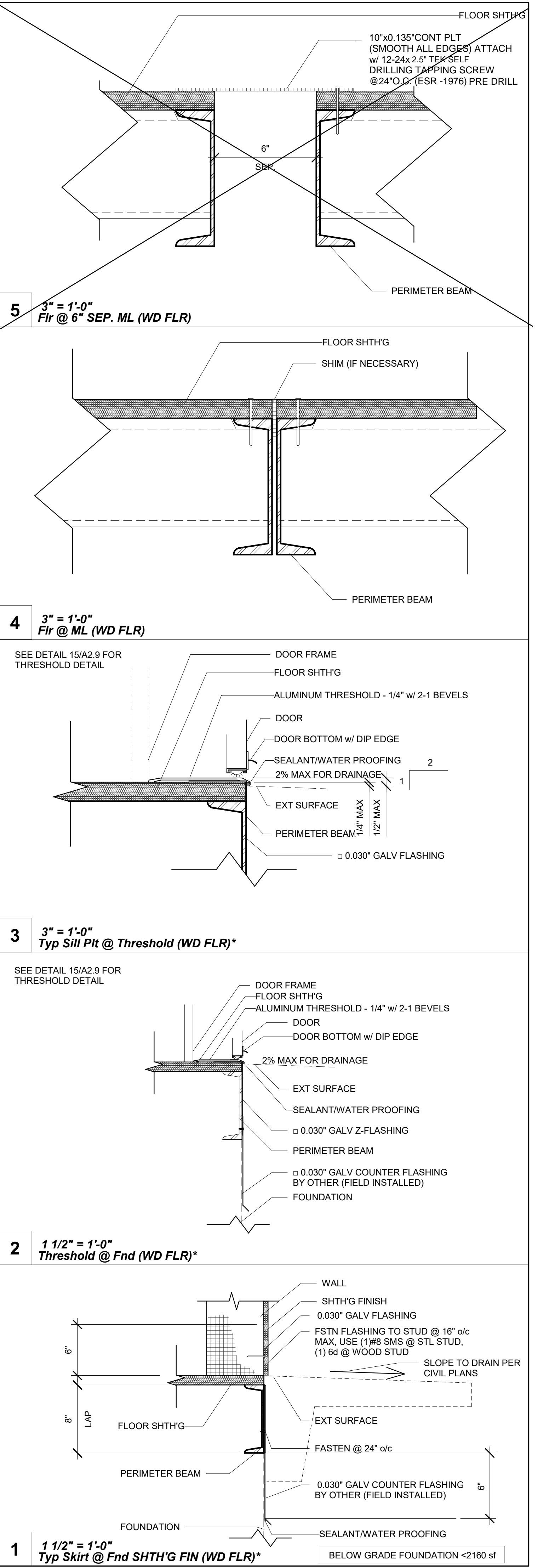
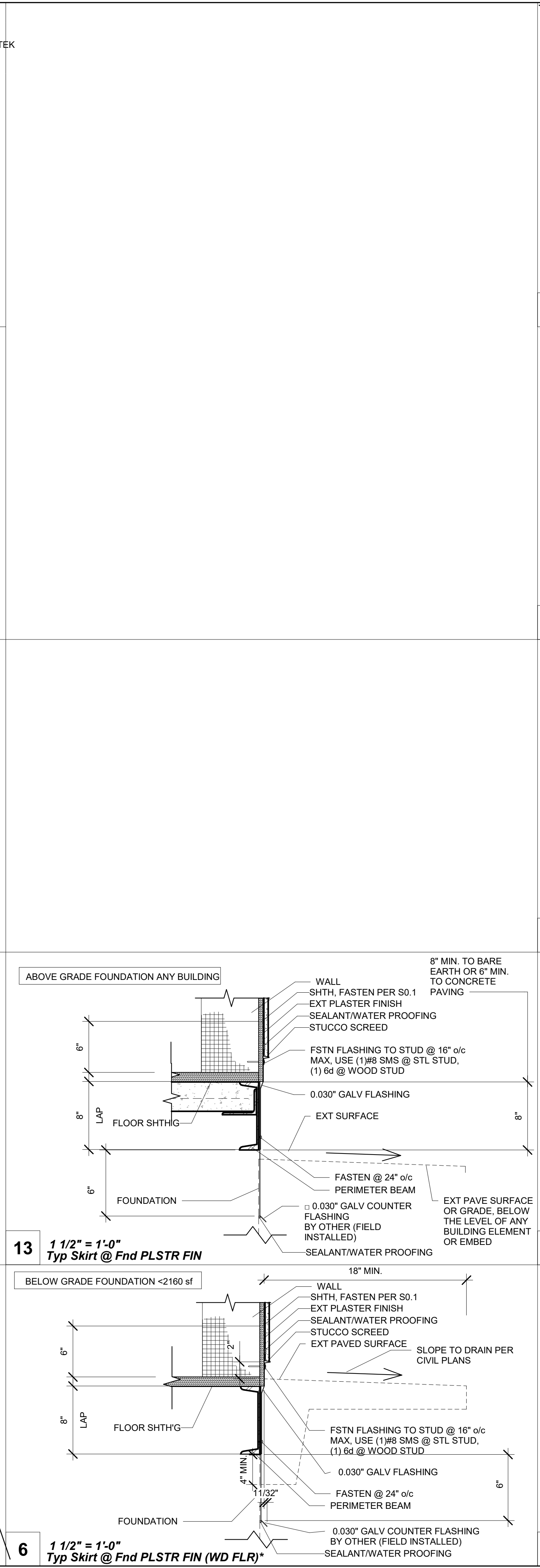
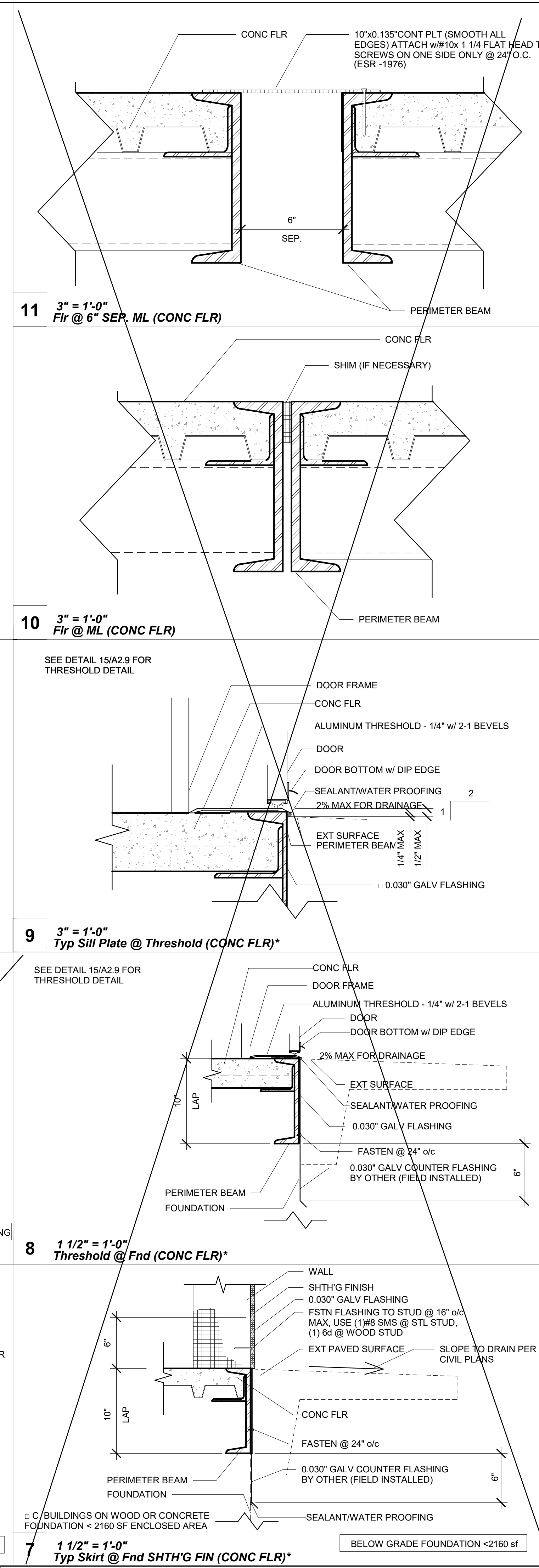
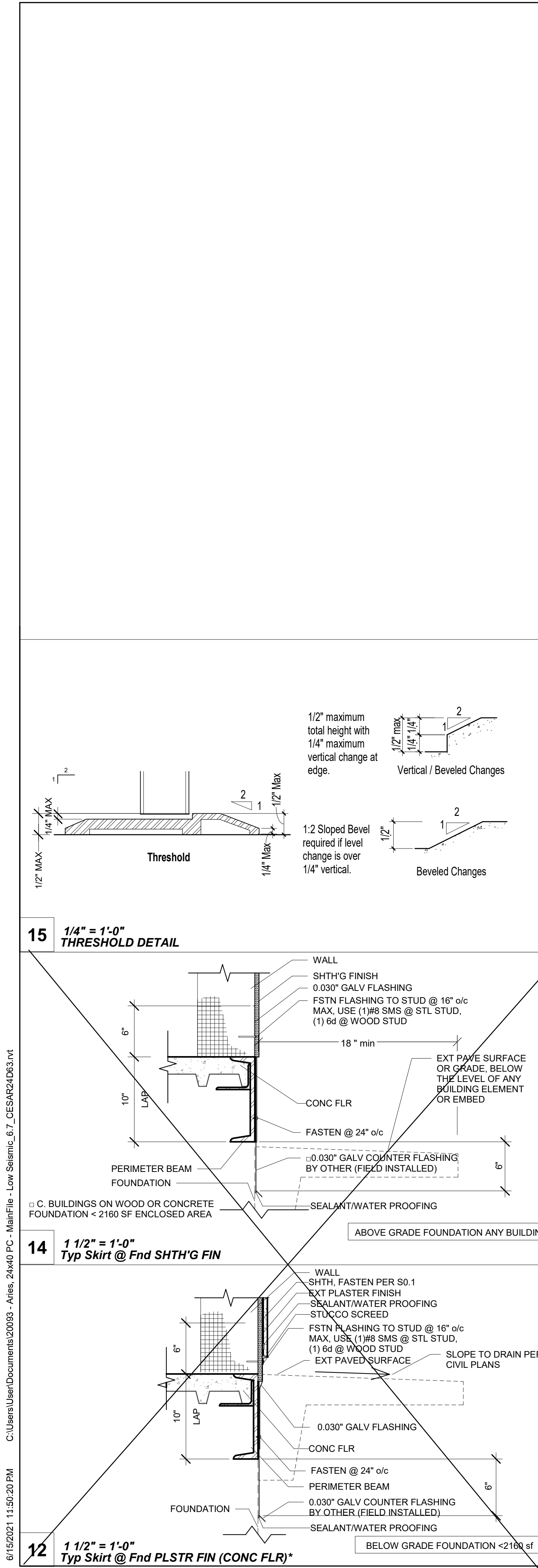
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R&S TAVARES ASSOCIATES
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 63380
 03/31/24
 STATE OF CALIFORNIA
 05/24/23
 RST#22088

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 APP. 04-121368 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
ARCHITECTURAL DETAILS (FLOOR)

PROJECT NUMBER
 22088

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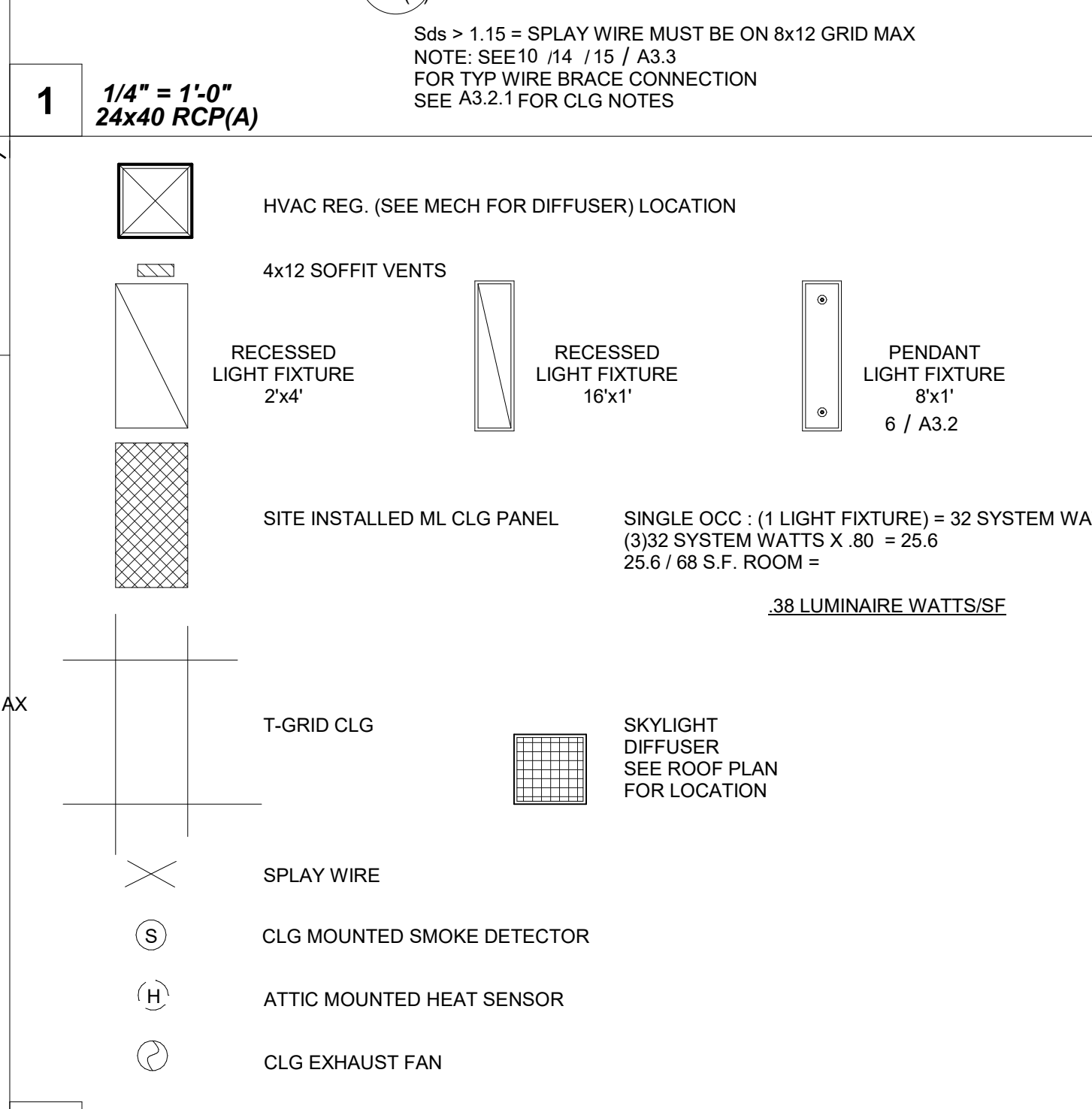
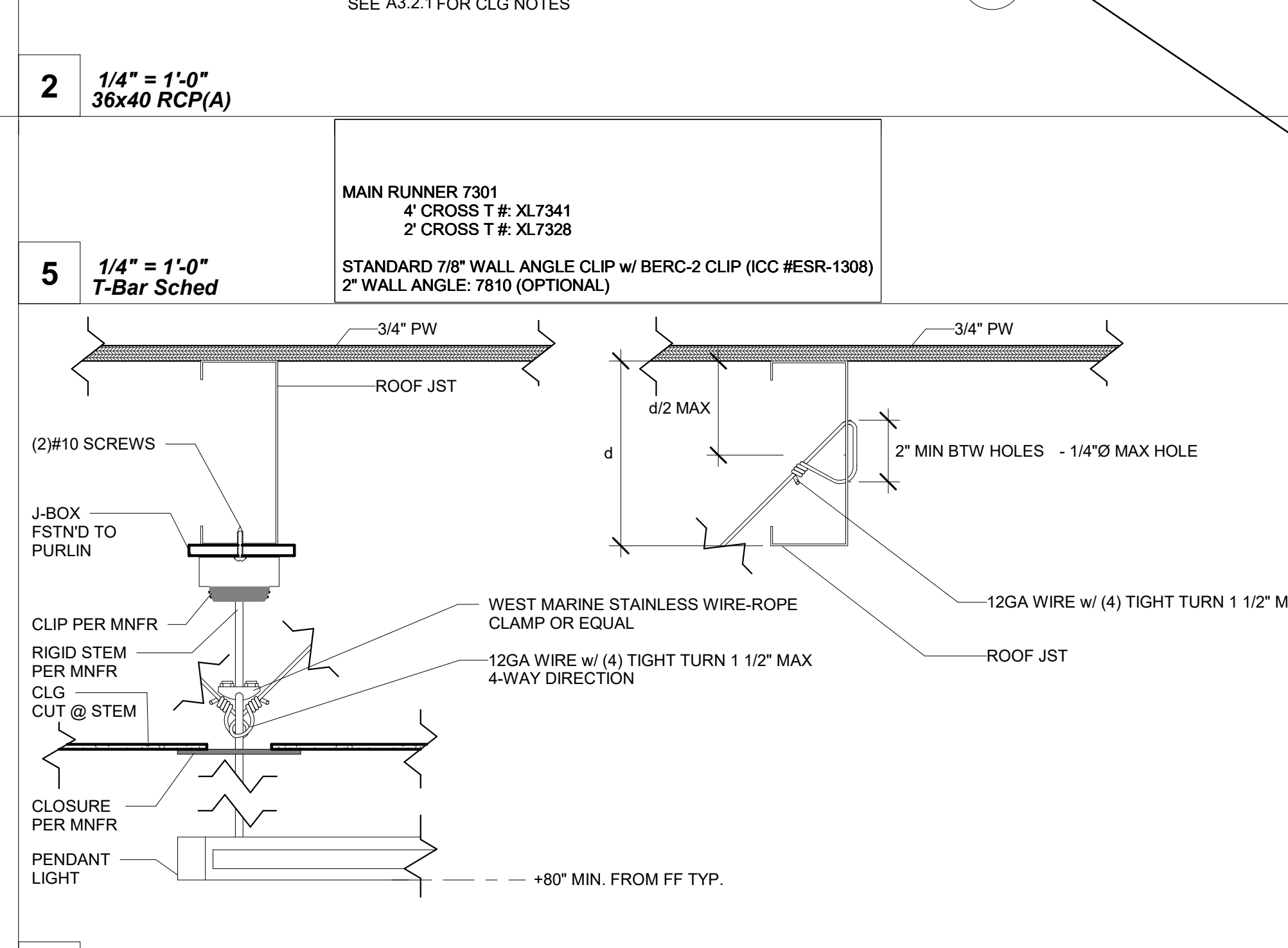
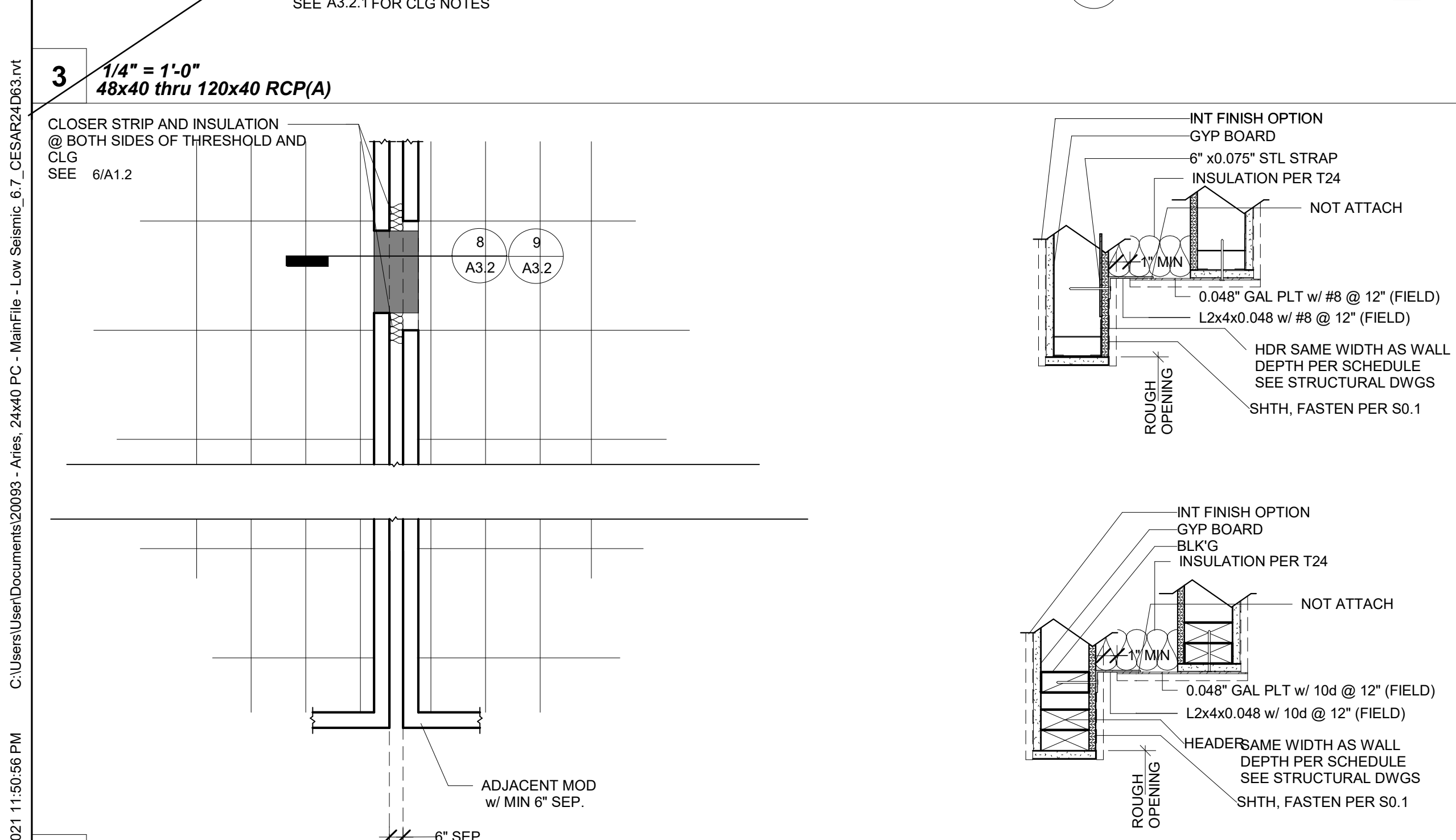
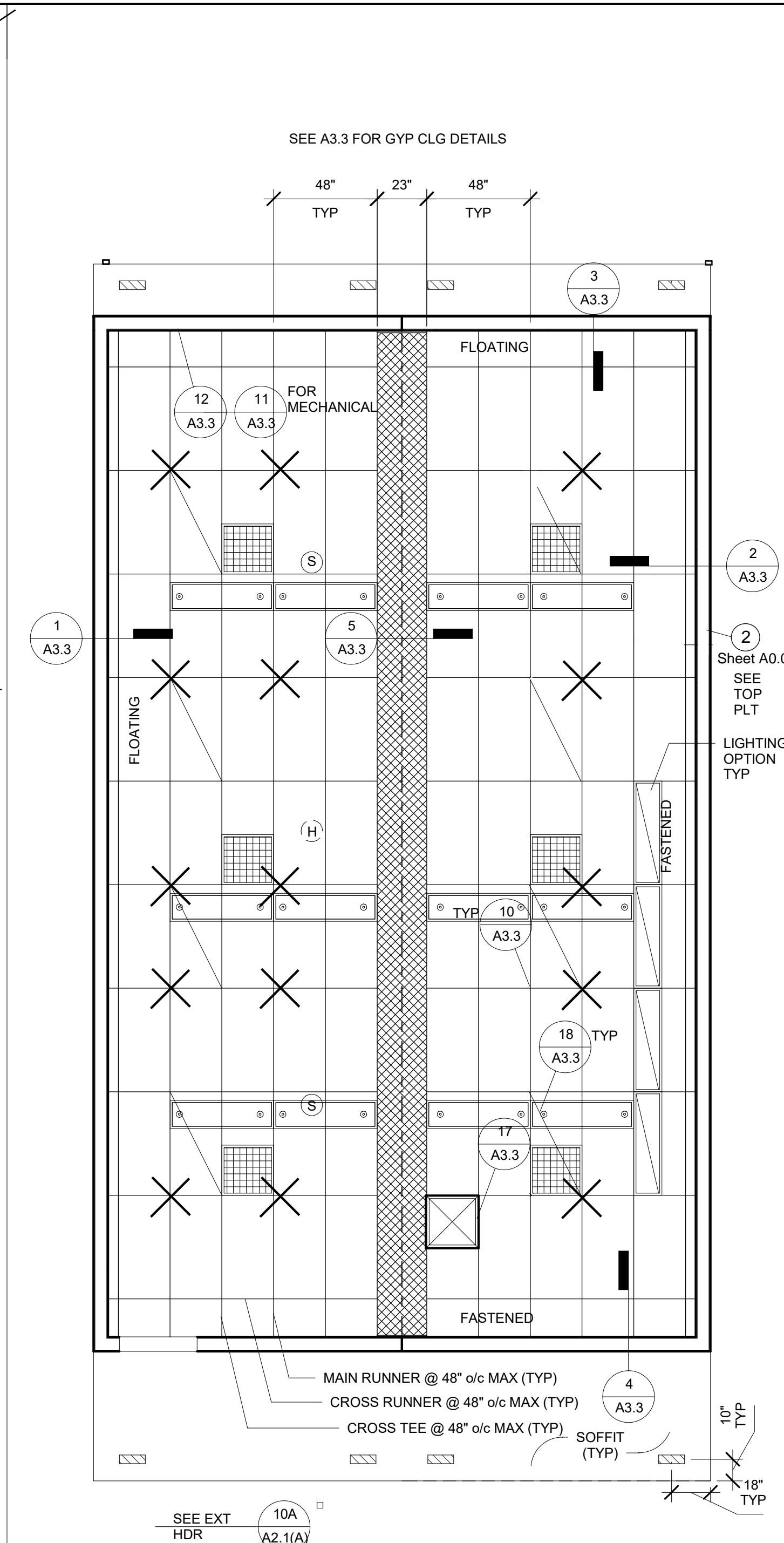
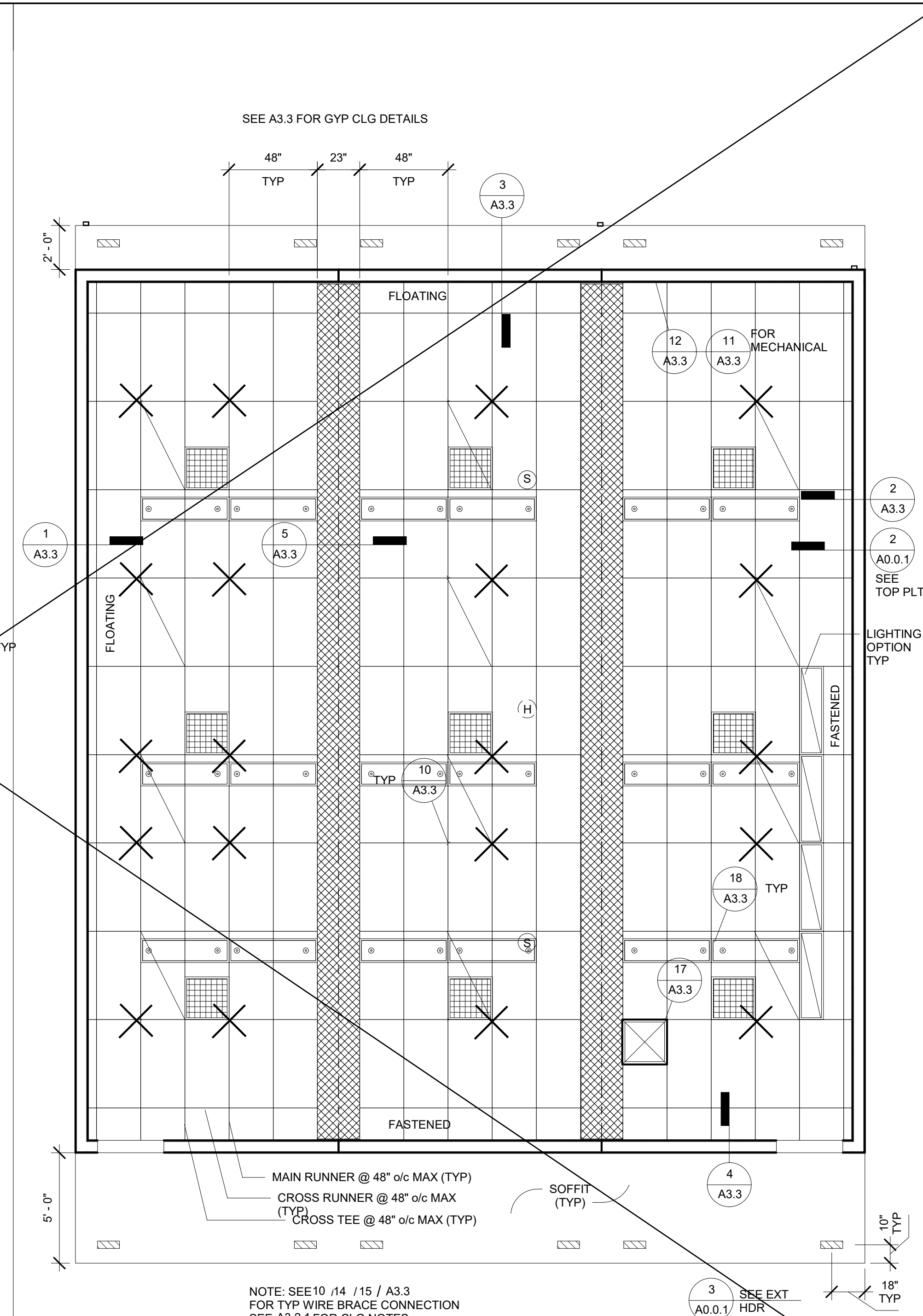
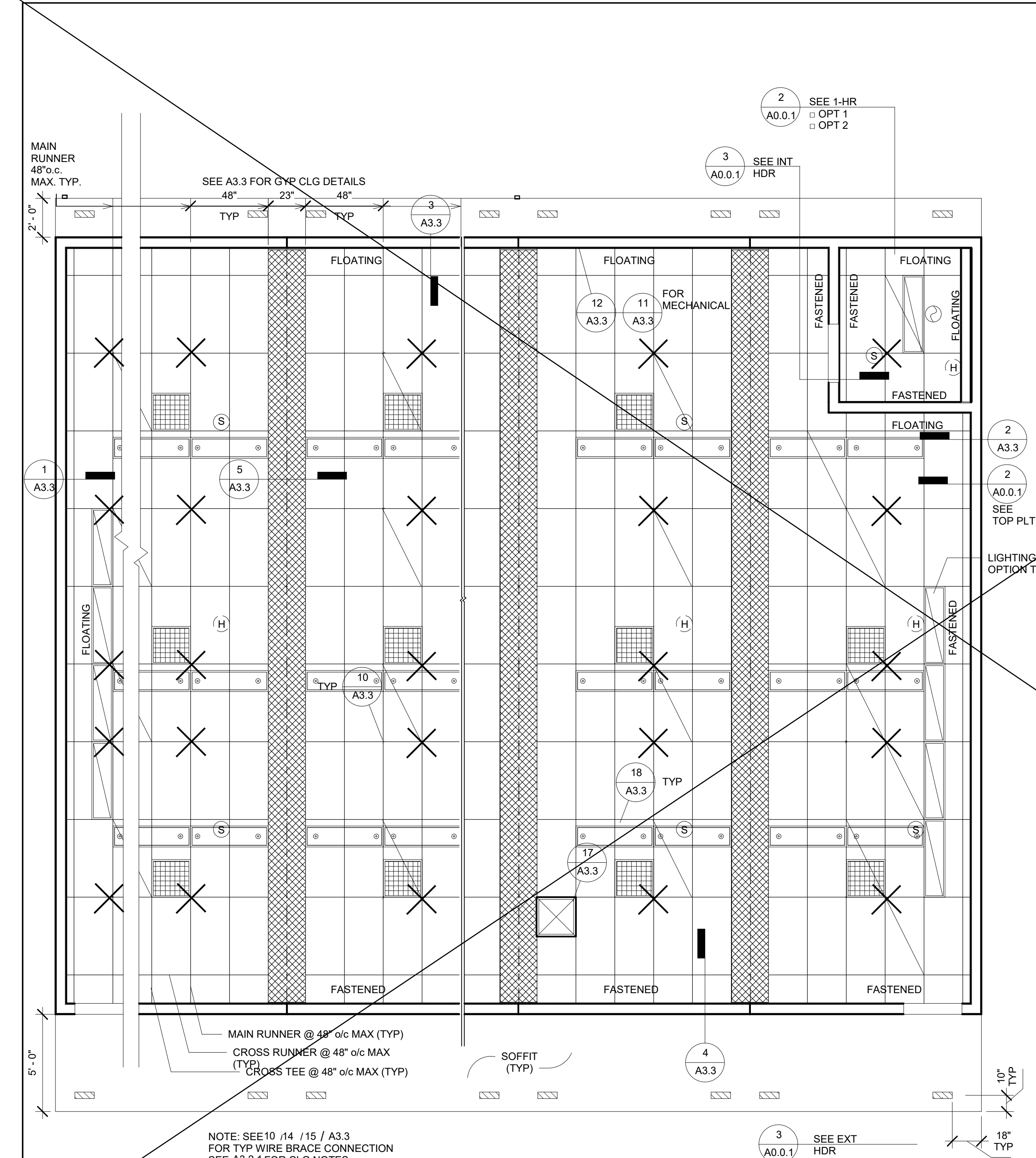
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STATE OF CALIFORNIA
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Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
RCP

PROJECT NUMBER
22088

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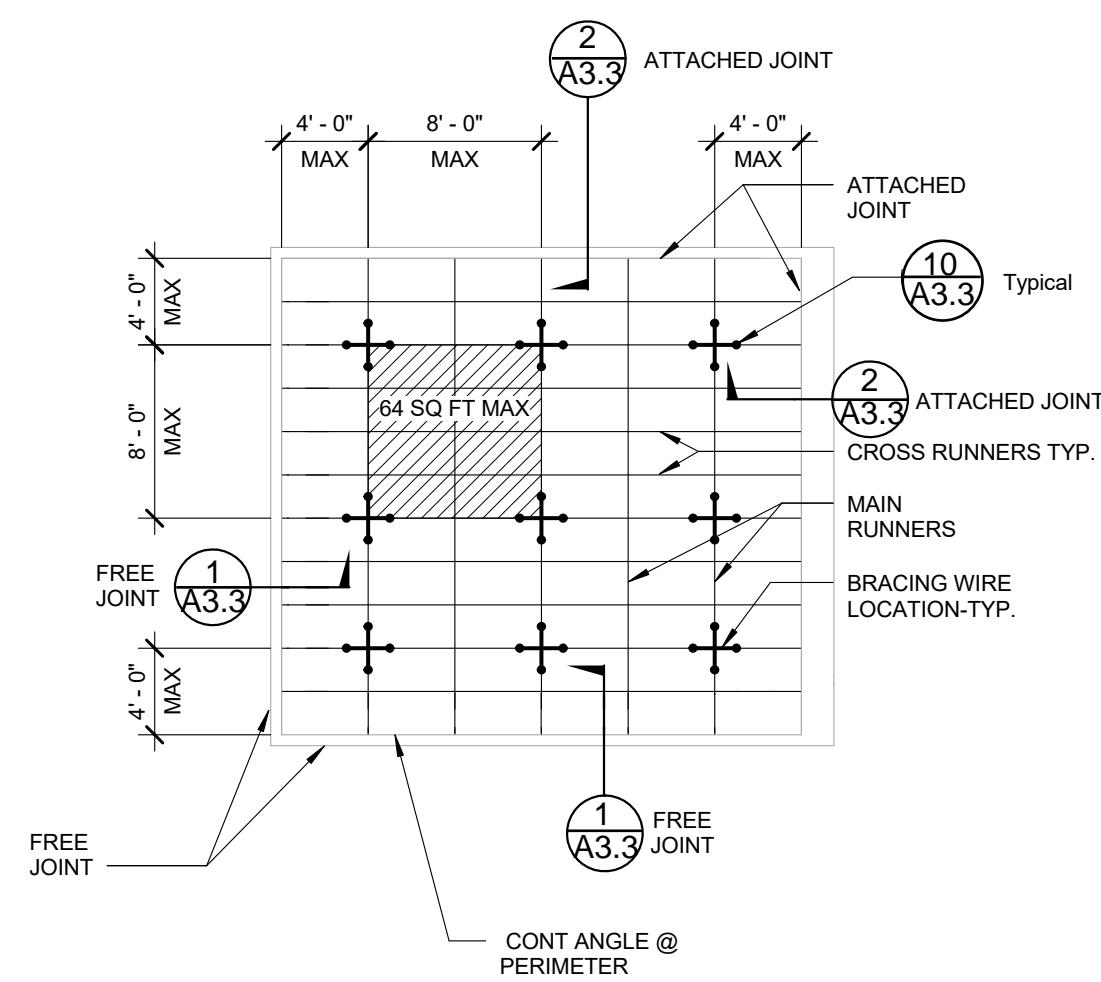
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1. CEILING SYSTEM GENERAL NOTES

- 1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.
1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.
1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:
Manufacturer: ARMSTONG (OR EQUAL)
Product Name: PRELUDE XL AND PRELUDE XL HIGH RECYCLED CONTENT (HRC)
Evaluation Report Type and Number: ICC ESR#1308
Main Runner Part, Model, or Catalog Number: 7301
Cross Runner Part, Model, Catalog Number: 4" CROSS T # XL7341 / 2" CROSS T # XL7328
1.04 Seismic Wall Clip: STANDARD 7/8" WALL ANGLE CLIP-w/ BERG2 CLIP
Manufacturer's Model: 7810
1.05 Ceiling panels shall not support any luminaires, air terminals or devices.
1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide 3/4" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide 3/4" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners/members and walls shall comply with the details on these drawings regardless of ceiling tile material.
2. MATERIALS
2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.
2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50 ksi.
2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (Fy) of 30 ksi and minimum ultimate strength (Fu) of 48 ksi.
3. ATTACHMENT OF HANGER AND BRACING WIRES
3.01 Separate all ceiling hanger and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc.
3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit and equipment.

Table with 3 columns: Detail Title, REV, Detail No. Row 1: CEILING NOTES, REV: 09/21/2015, 1.00. Row 2: REV: 03/2022, 1.00.

NOTE: BERG2 2" BEAM-END RETAINING CLIP- Allows you to create a code-compliant Seismic D, E, F ceiling installation while eliminating the need to use 2" wall molding or spreader bars.



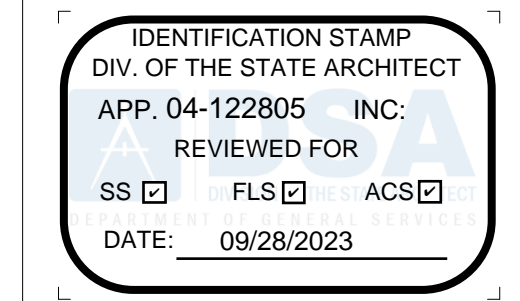
- 3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.
3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.
3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire (e.g., bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.).
4. FASTENERS AND WELDING
4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.
4.02 Expansion anchors shall be: NA
4.03 Power-Actuated Fasteners shall be: NA
4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member
4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.
4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-installed anchors.
4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.
5. TESTING
5.01 All field testing must be performed in the presence of the project inspector.
5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.
5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A.5.
6. LUMINAIRES
6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580 Section 5.3.1.
6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting

Table with 3 columns: Detail Title, REV, Detail No. Row 1: CEILING NOTES, REV: 09/21/2015, 1.00. Row 2: REV: 03/2022, 1.00.

- ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches do not comply. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.
6.03 Luminaires weighing less than or equal to 10 pounds may be supported directly on the ceiling runners, shall have a minimum of one #12 gauge slack safety wire connected from the fixture housing to the structure above.
6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.
Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12 gauge slack safety wire at each corner.
6.05 All luminaires weighing greater than 56 pounds shall be independently supported by not less than four taut #12 gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12 gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four times the weight of the fixture.
7. SERVICES WITHIN THE CEILING
7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have one #12 gauge slack safety wire attached from the terminal or service to the structure above.
7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall be supported directly from the structure above by not less than four taut #12 gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.
8. OTHER DEVICES WITHIN THE CEILING
8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 pounds shall have a #12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be supported independently from the structure above.

Table with 3 columns: Detail Title, REV, Detail No. Row 1: CEILING NOTES, REV: 09/21/2015, 1.00. Row 2: REV: 03/2022, 1.00.

NOTE: 1. ITEMS SHOWN WITH A MFR CALLOUT MAY BE SUBSTITUTED WITH AN OR EQUAL OR GREATER PRODUCT WITH DSA APPROVAL



PROFESSIONAL STAMP

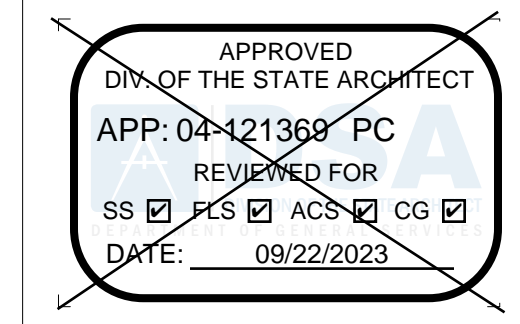


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CLIENT



ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

Table with 3 columns: #, Description, Date. Header row only.

PRE-CHECK (PC) DOCUMENT Code: 2022 CBC A separate project application for construction is required

PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE CEILING NOTES

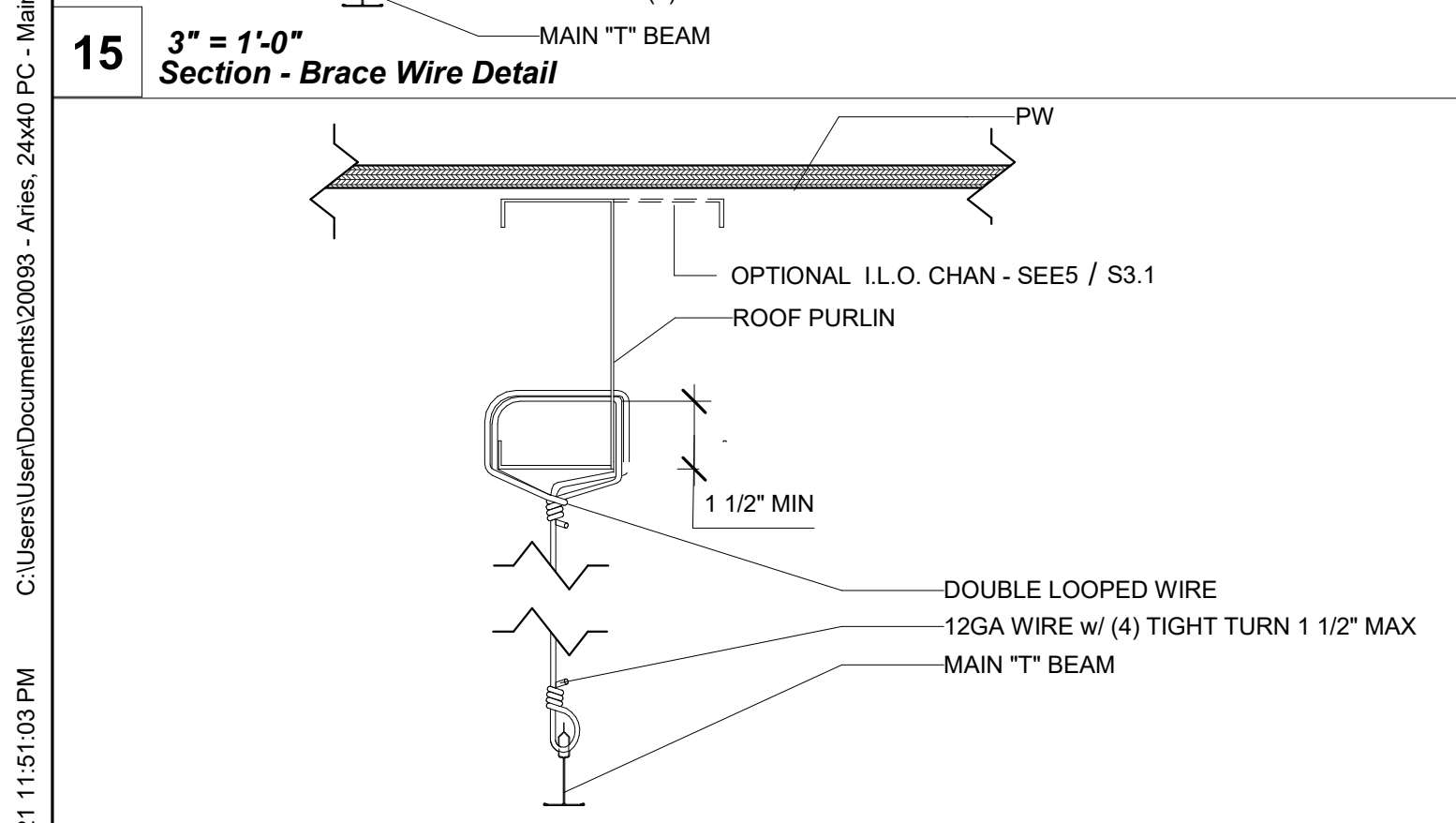
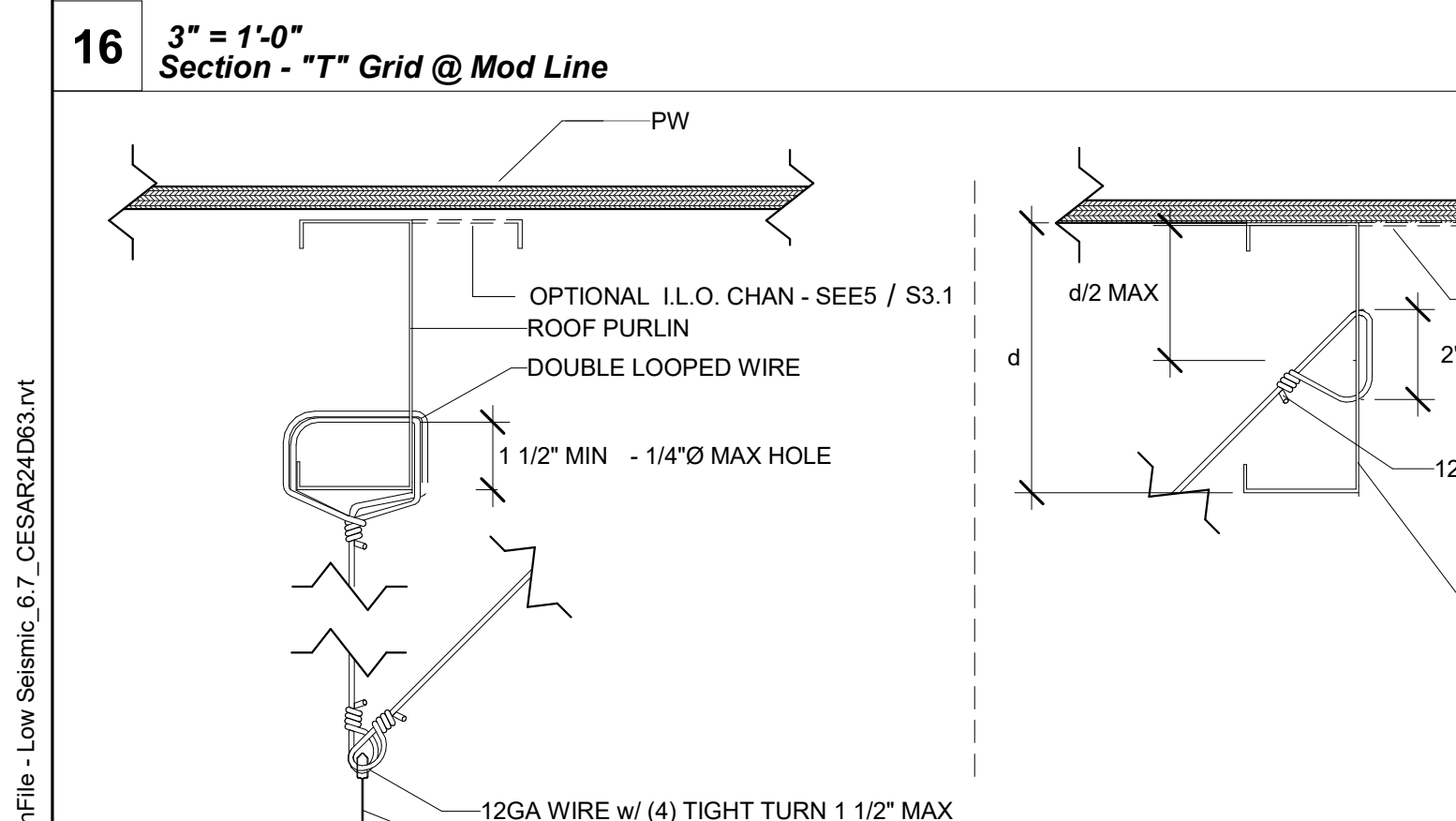
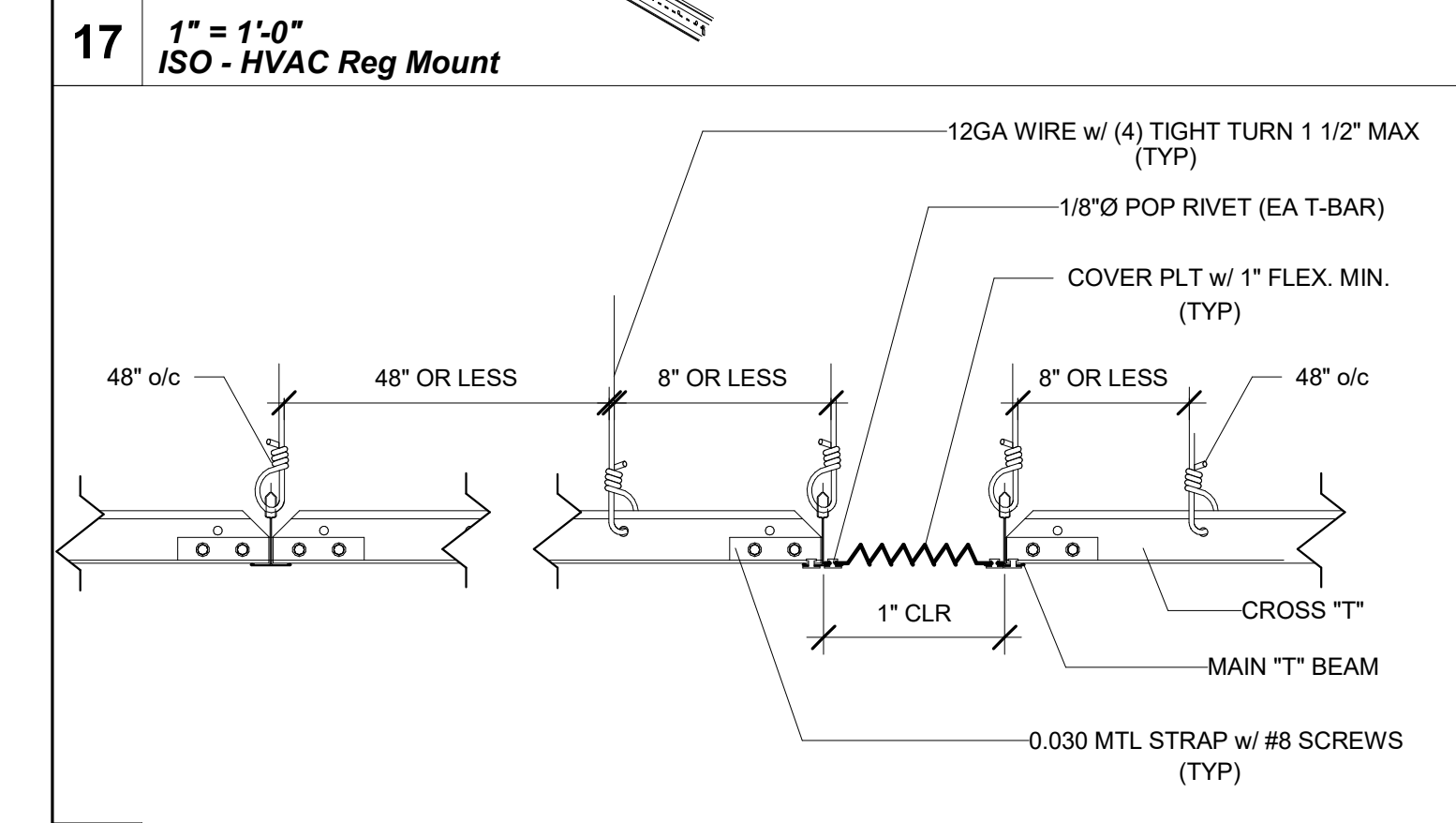
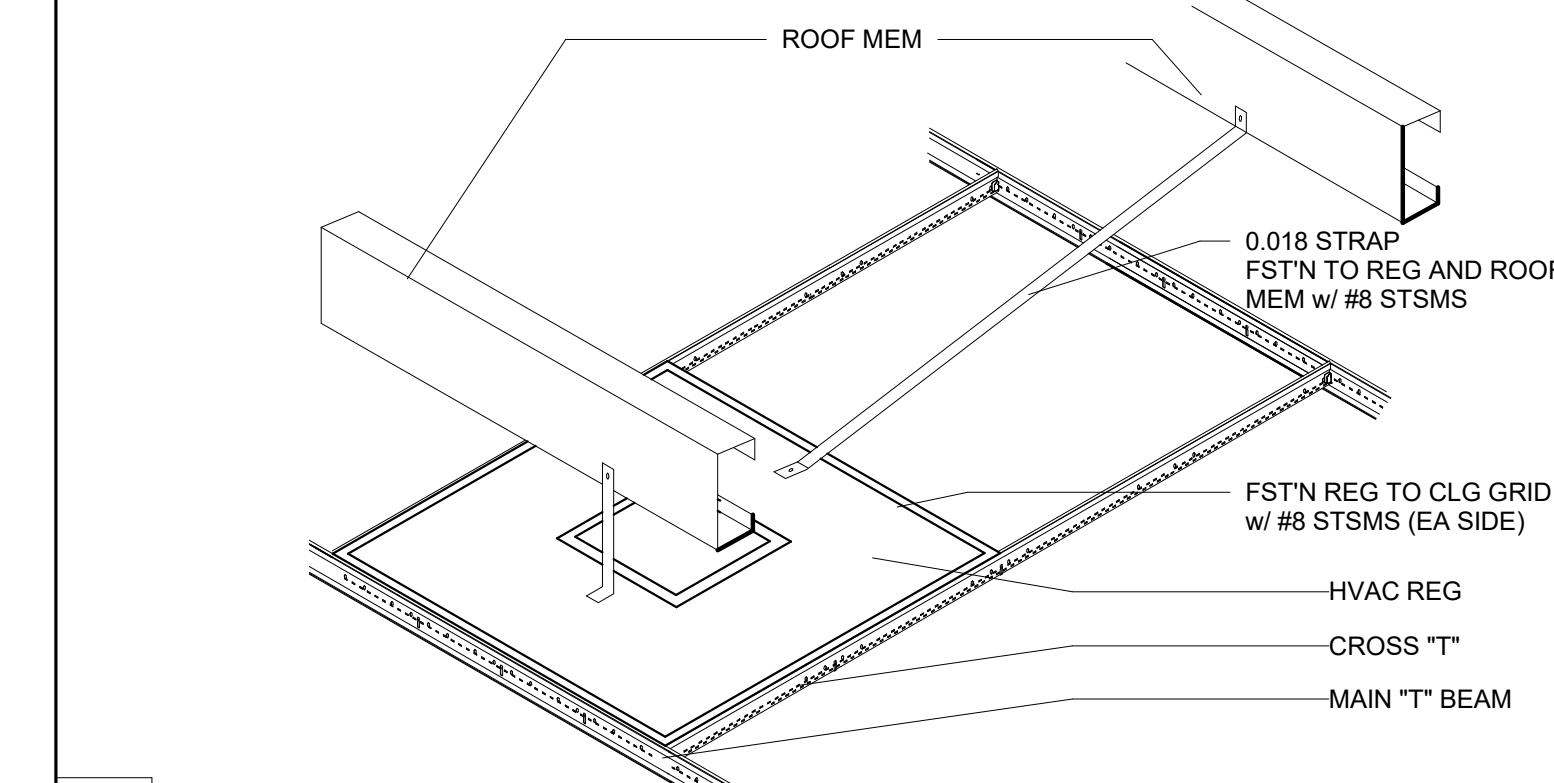
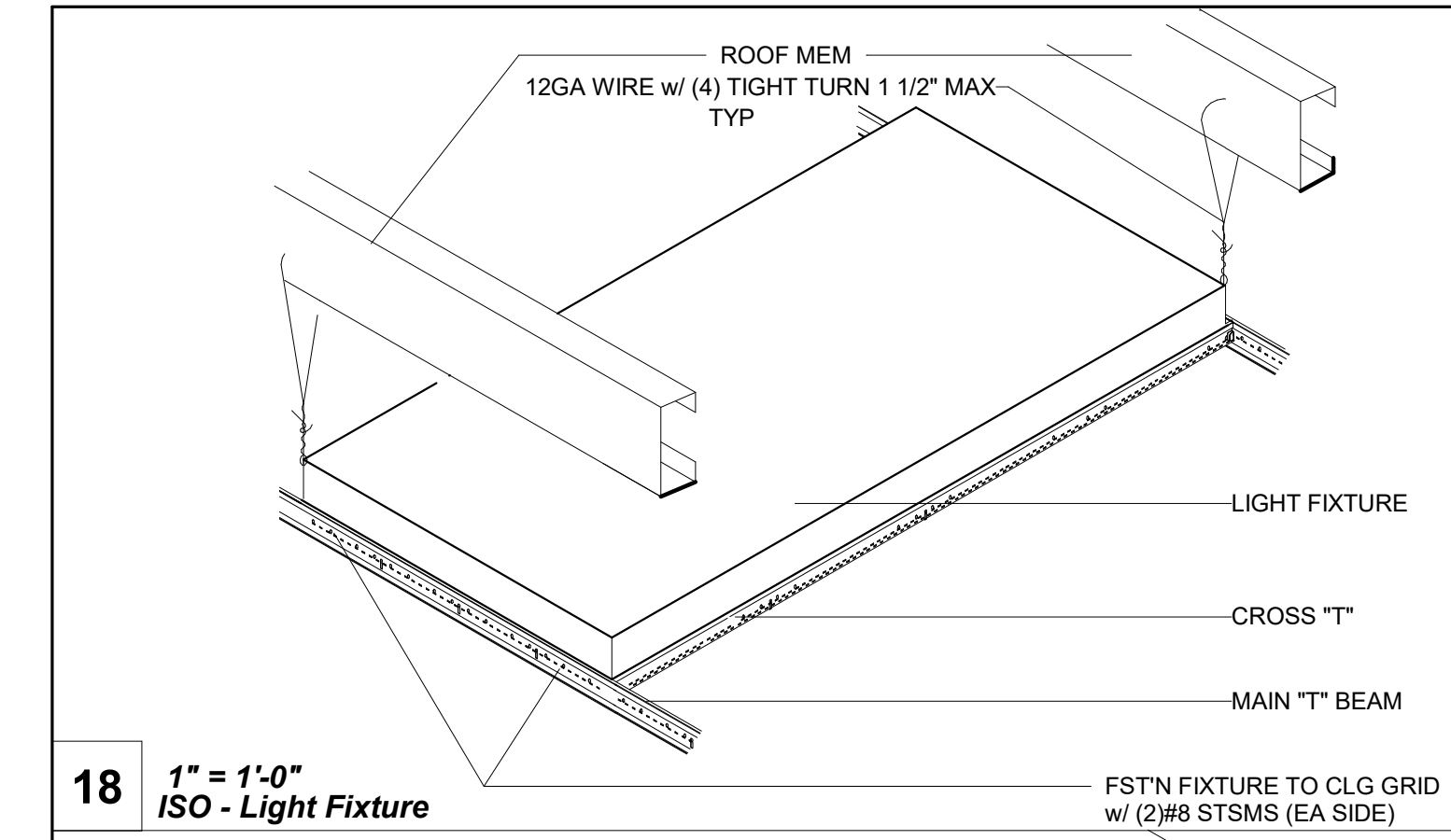
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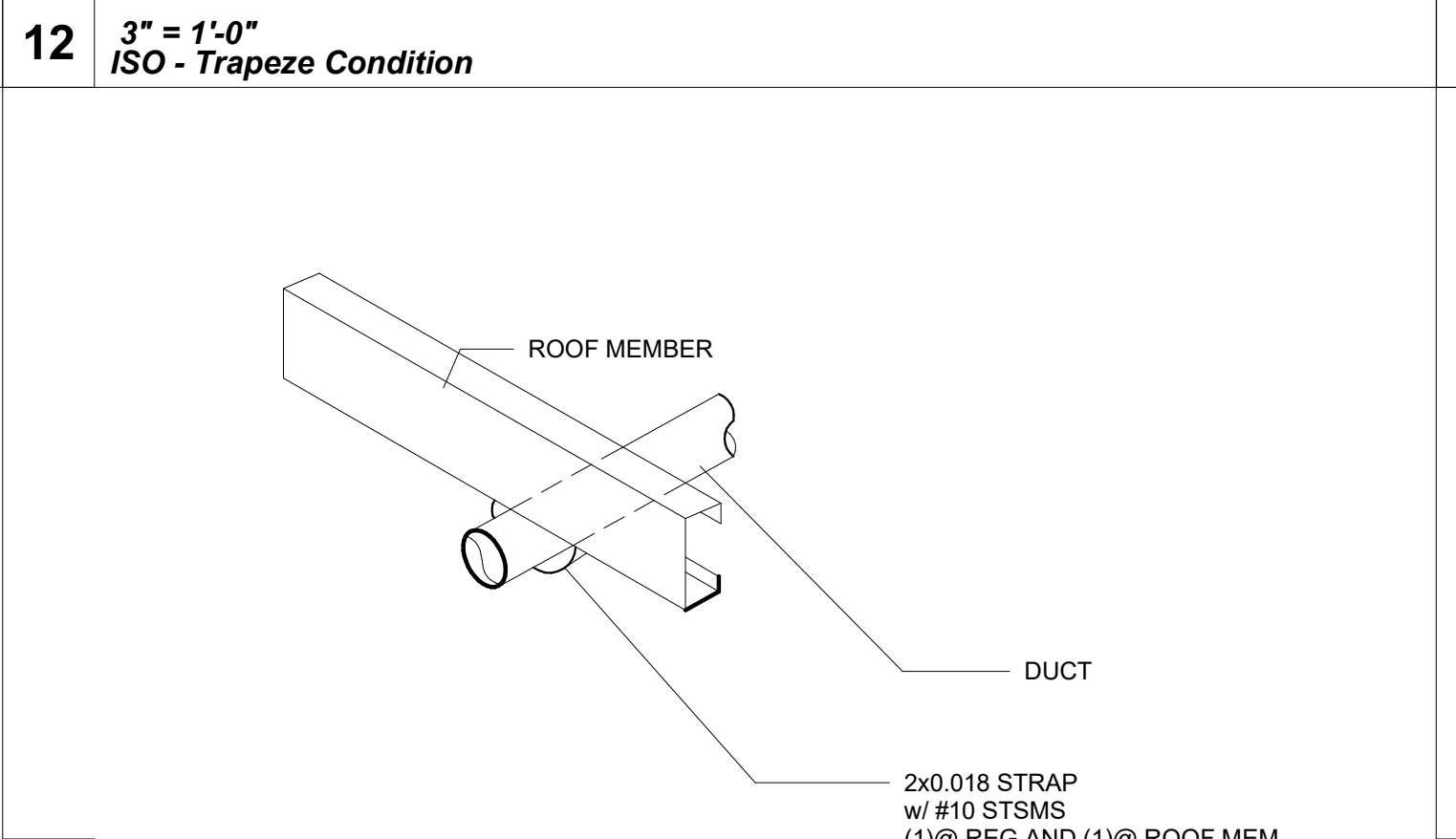
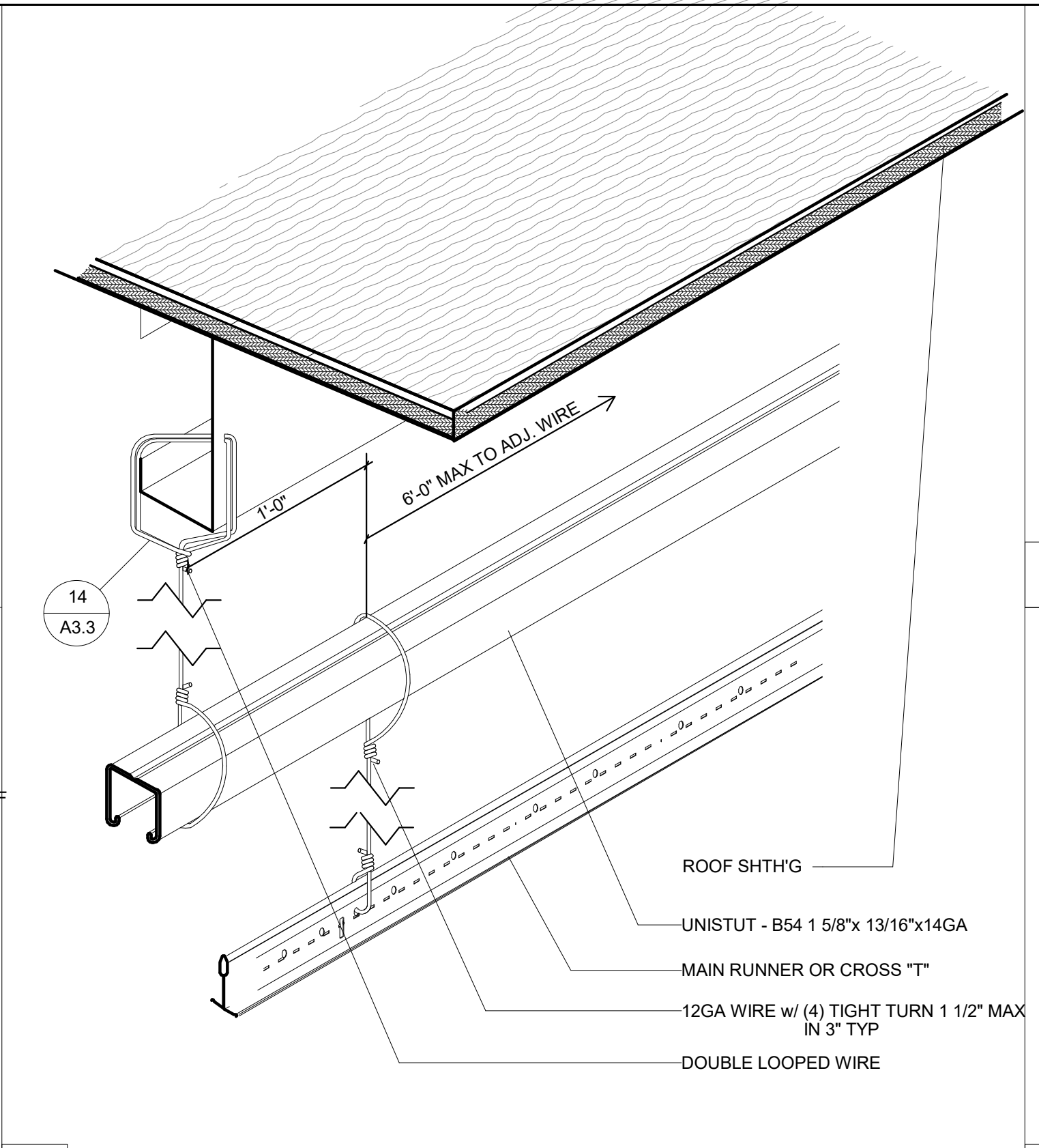
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DATE

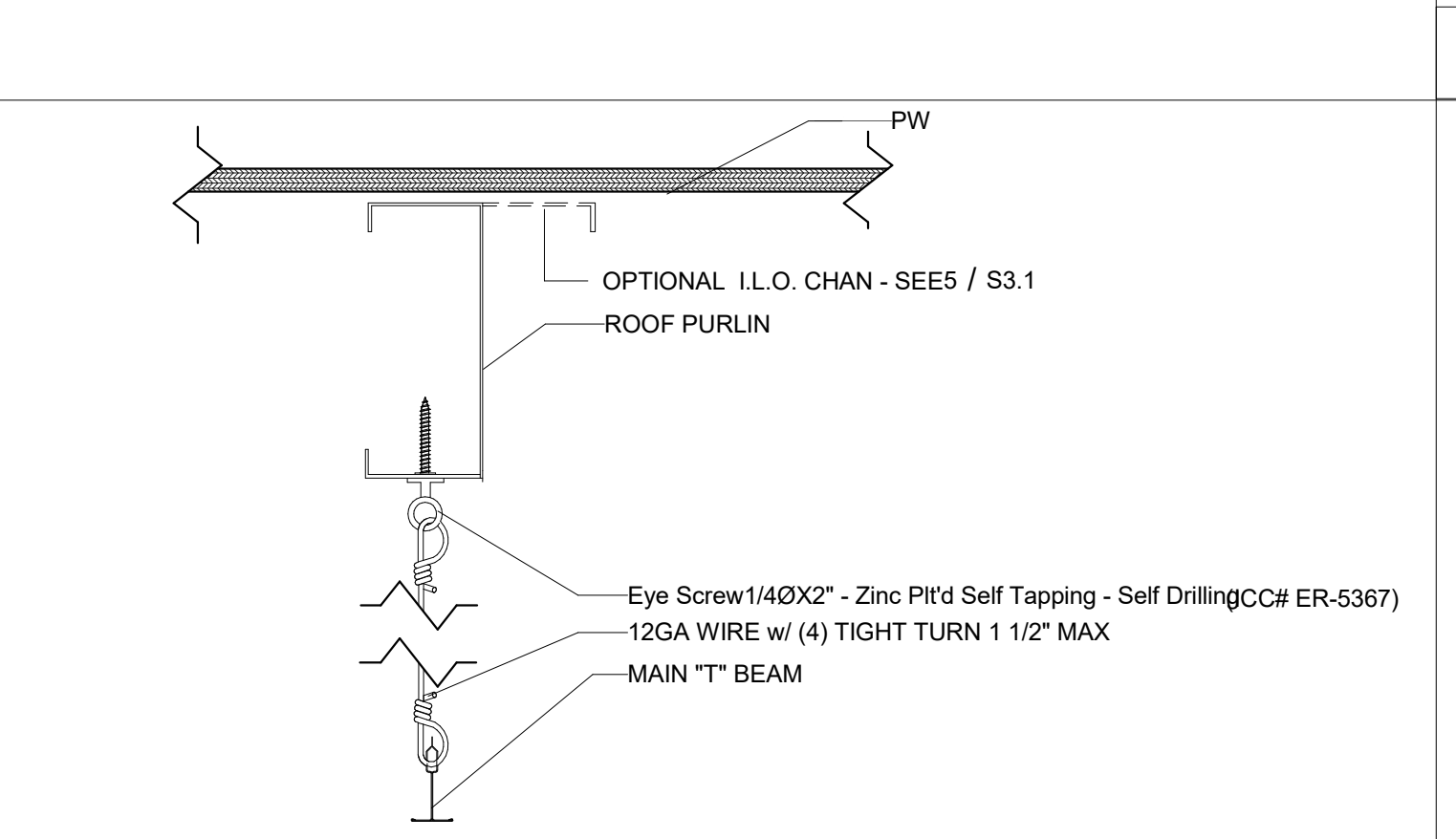
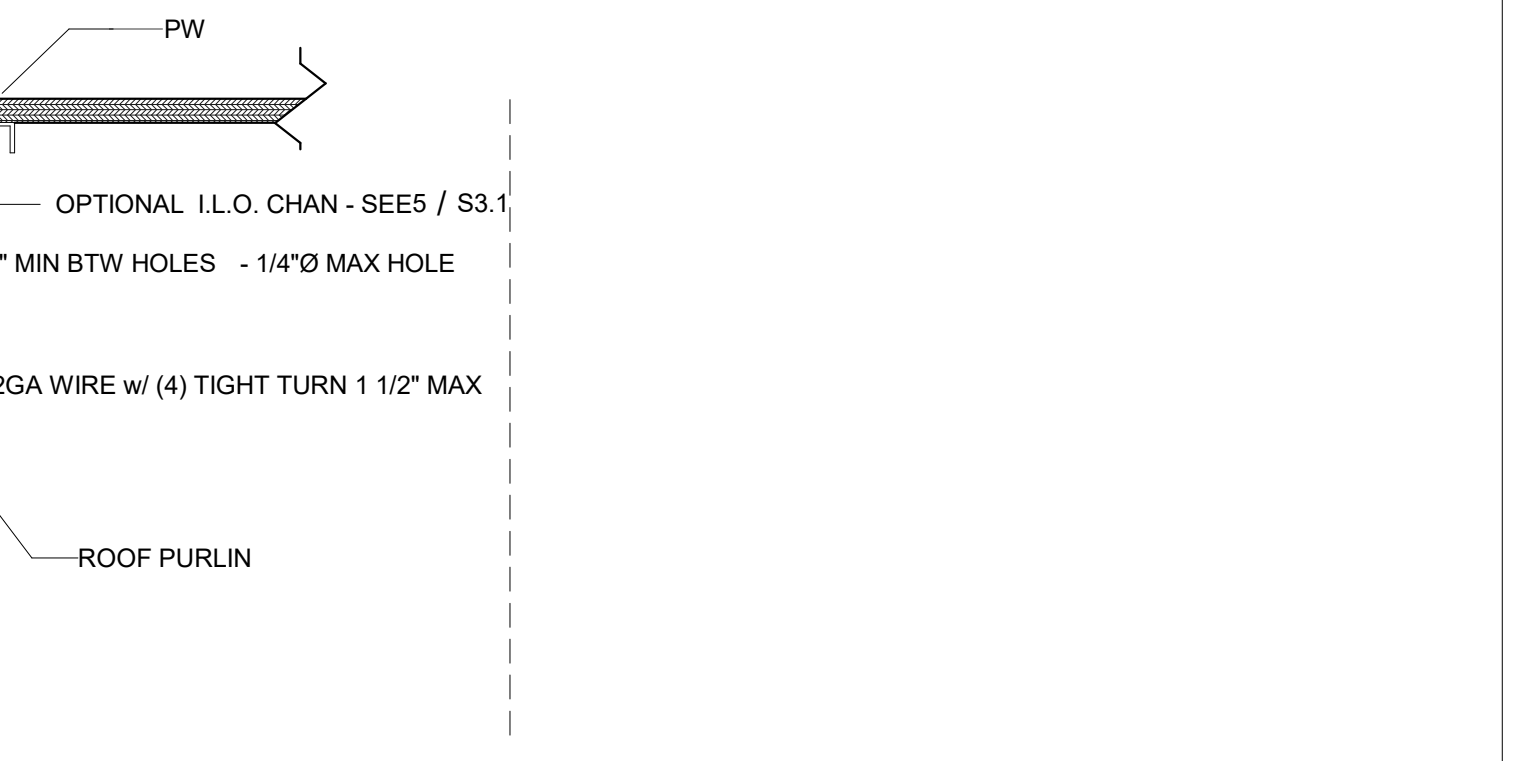
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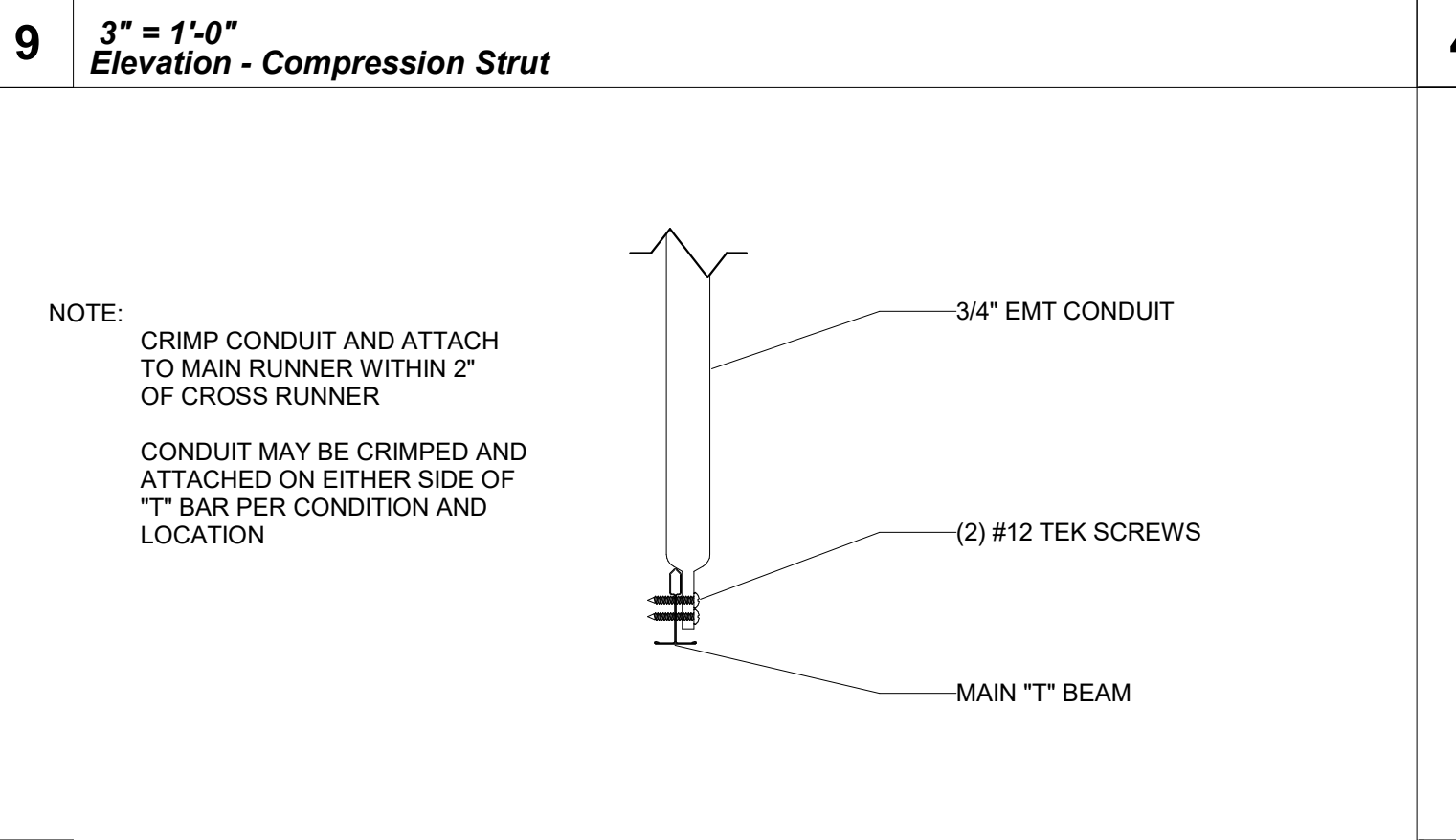
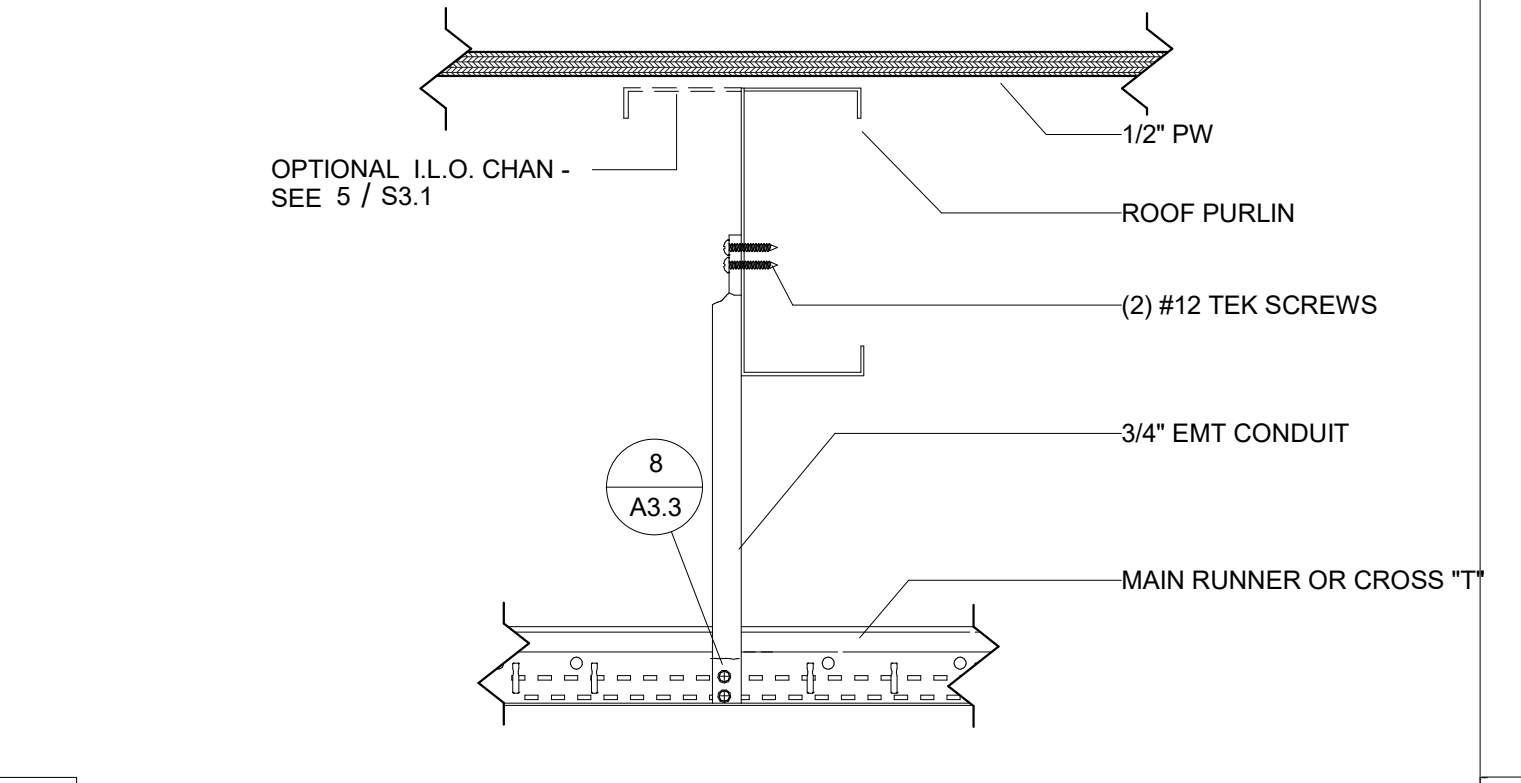
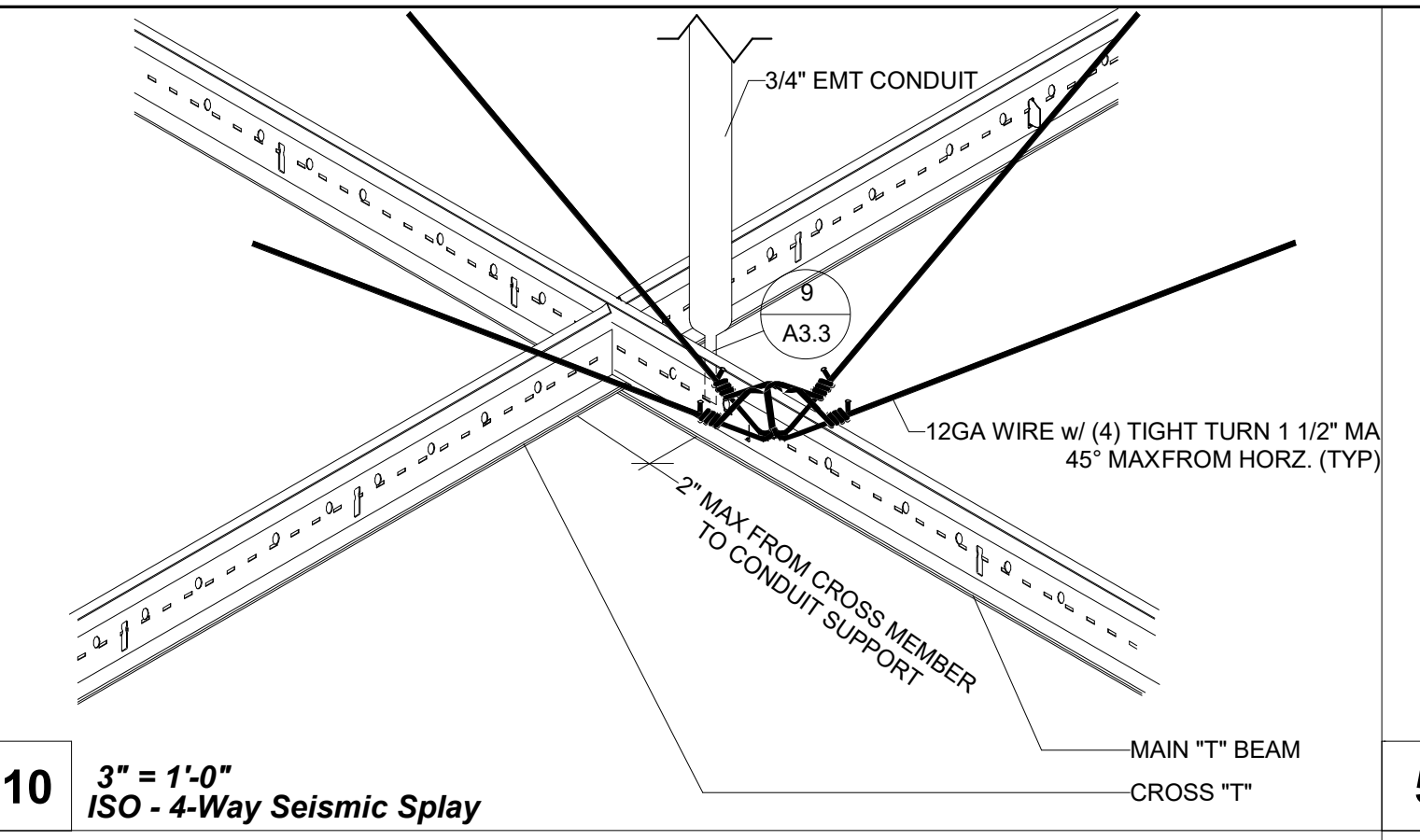
14 3" = 1'-0" Section - Hanger Wire Detail



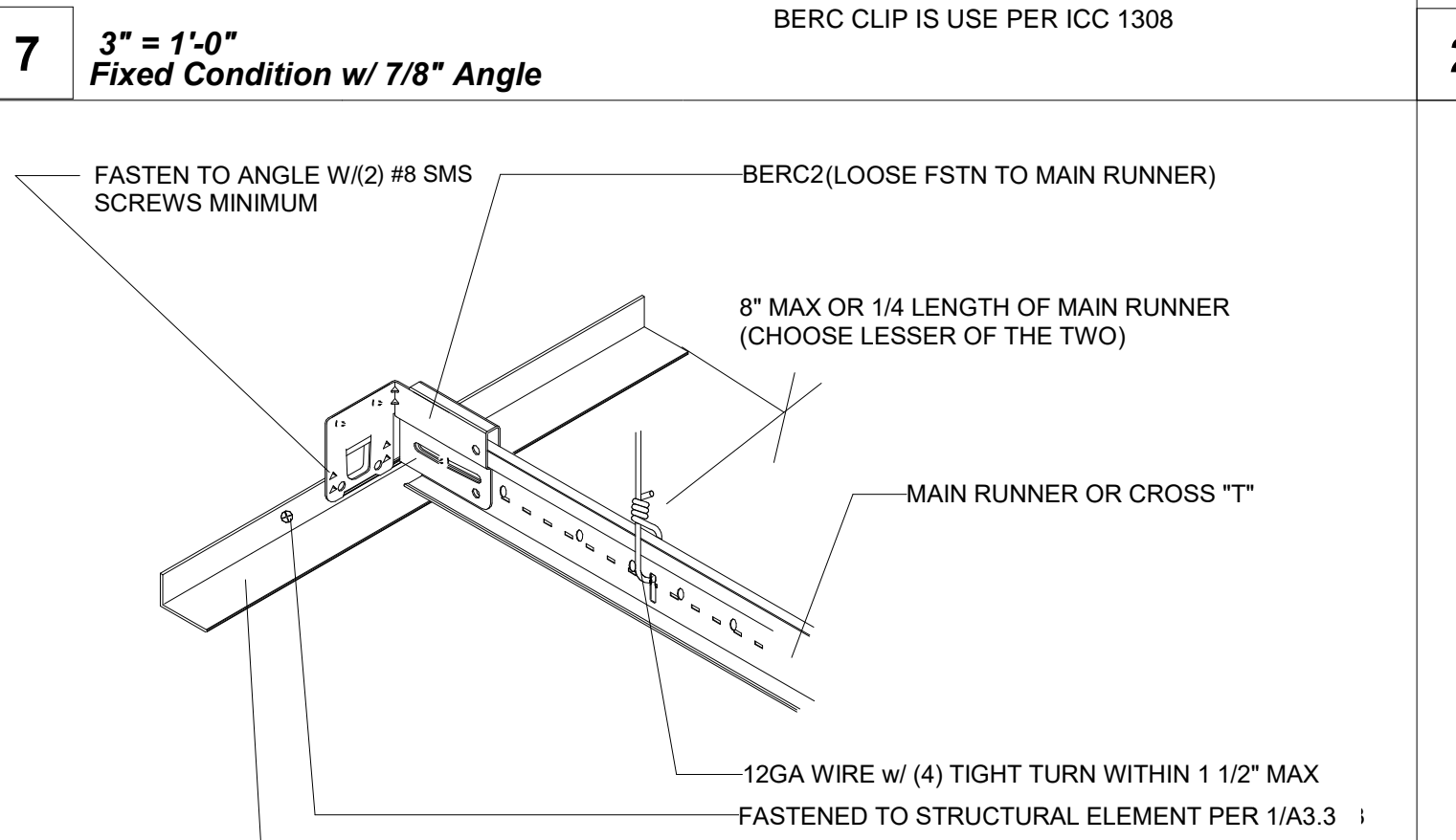
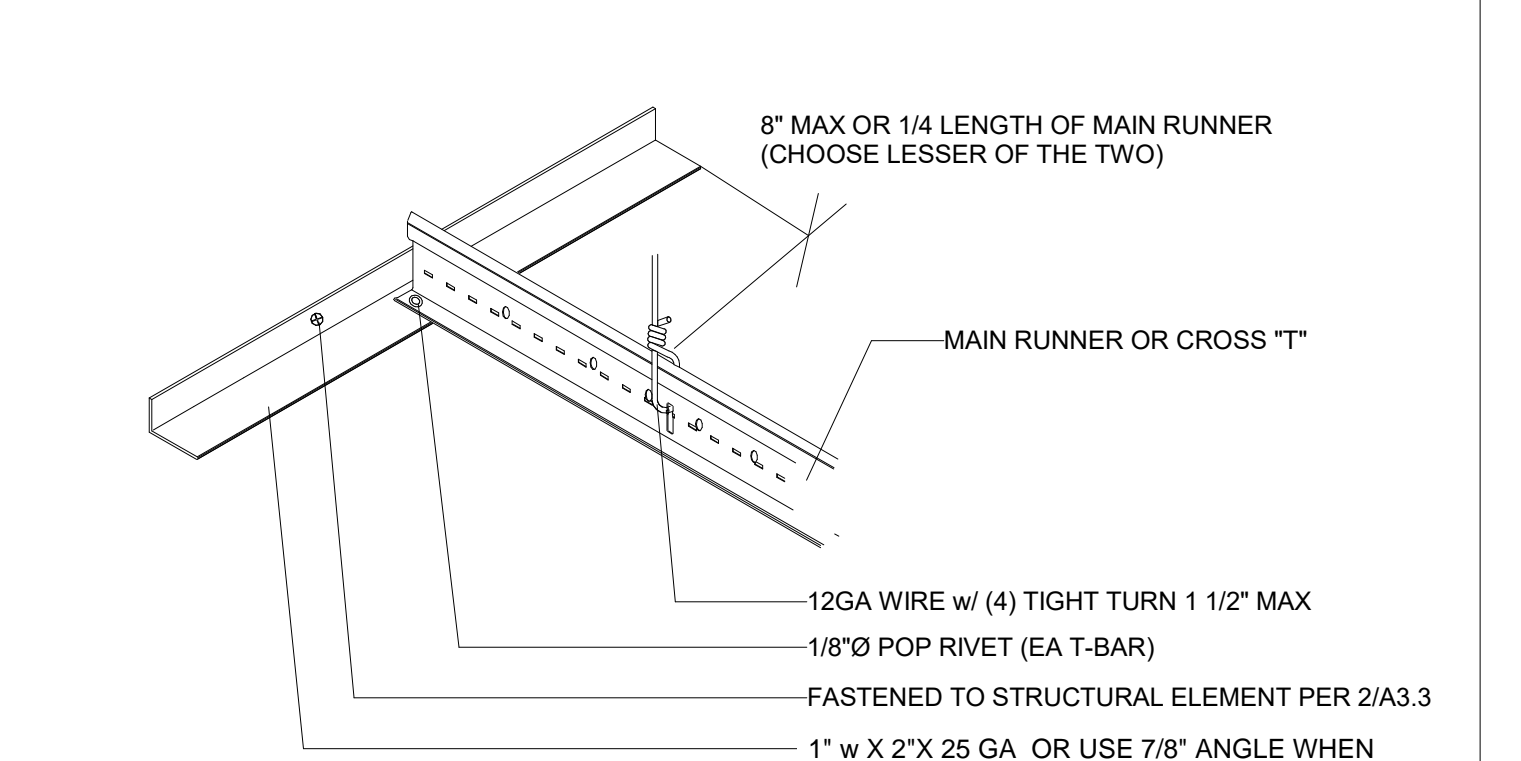
11 1" = 1'-0" ISO - Duct Connection



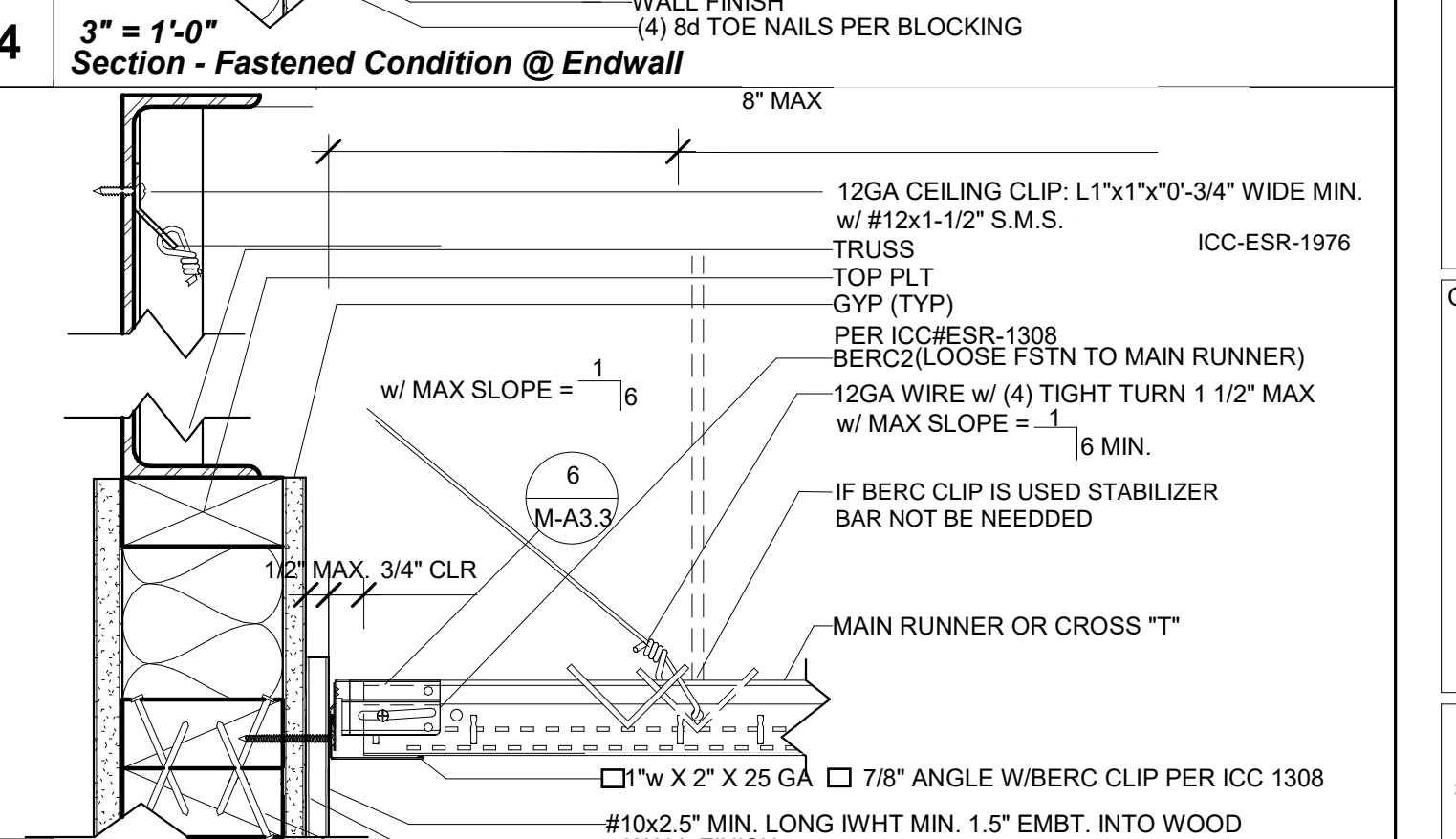
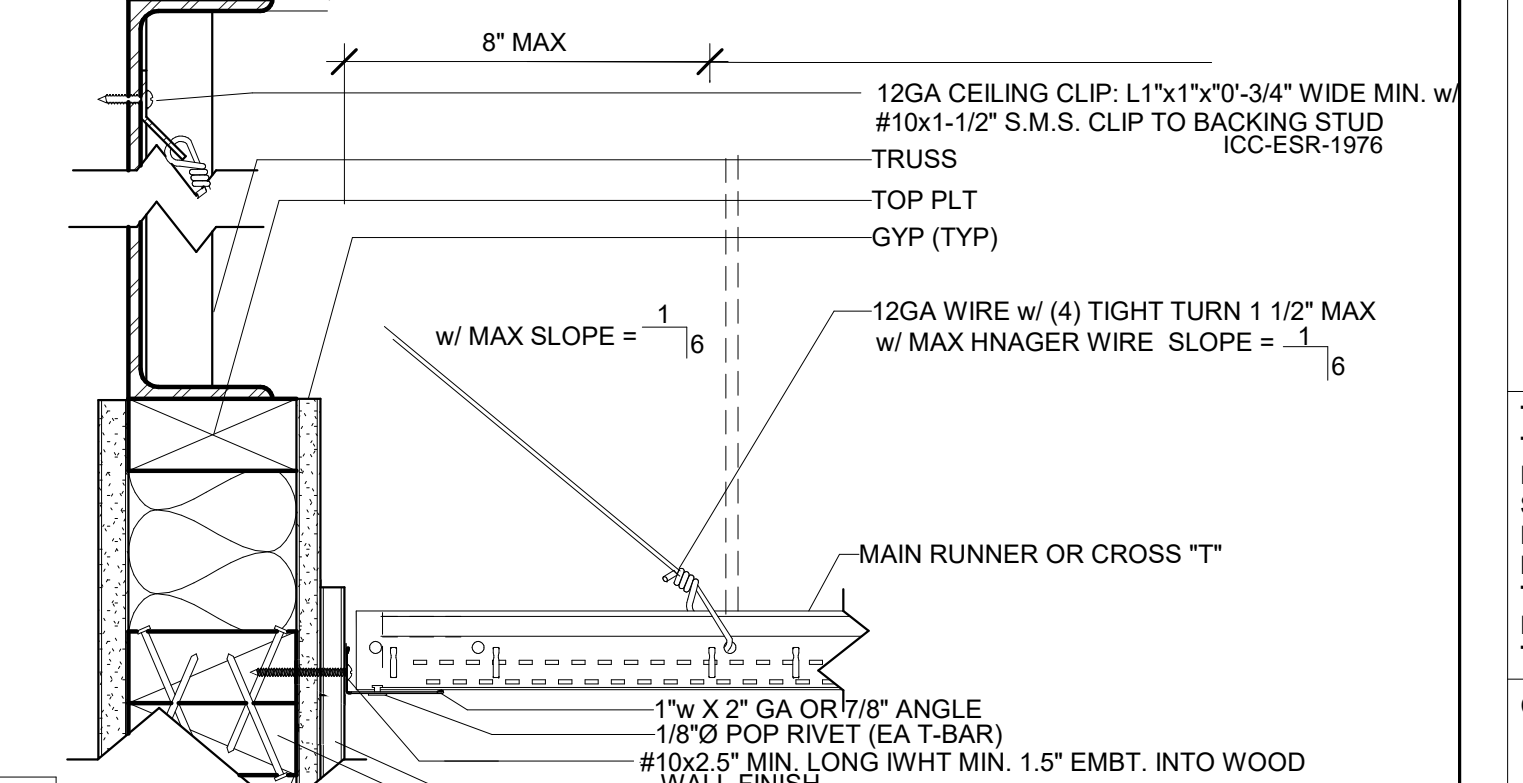
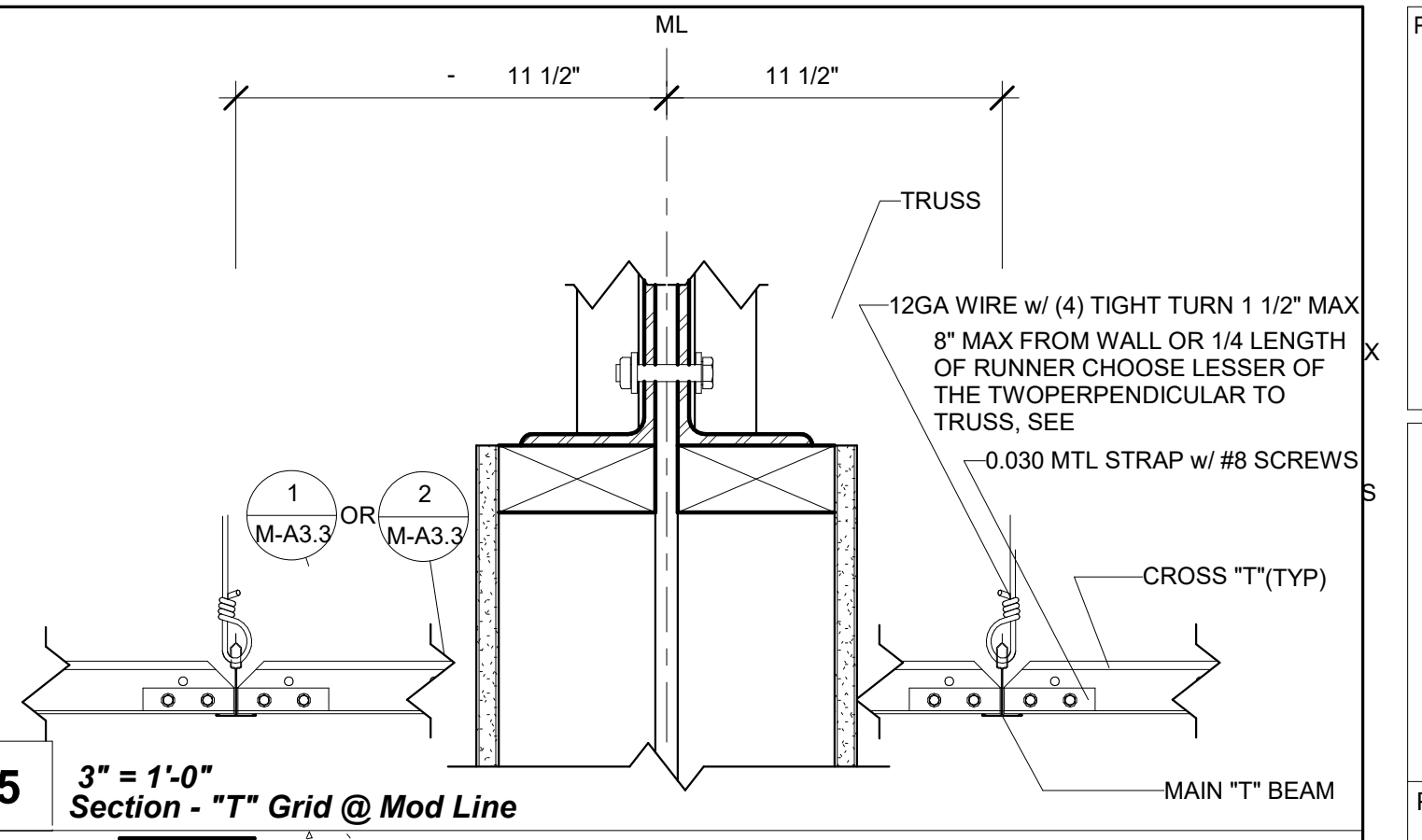
9 3" = 1'-0" Elevation - Compression Strut



6 3" = 1'-0" Floating Condition w/ 7/8" Angle



4 3" = 1'-0" Section - Fastened Condition @ Endwall



1 3" = 1'-0" Section - Floating Condition @ Sidewall

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
DESIGN & CONSULTING PROJECT MEET
11500 W BERNARD COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FLORES
65380
03/31/24
STATE OF CALIFORNIA
05/24/23
RST#22088

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CLIENT

Class Leasing
1320 W. Oleander Ave, Perris CA 92571-7408
VOICE (951) 943-1908 Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
CEILING DETAILS
(T-GRID)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

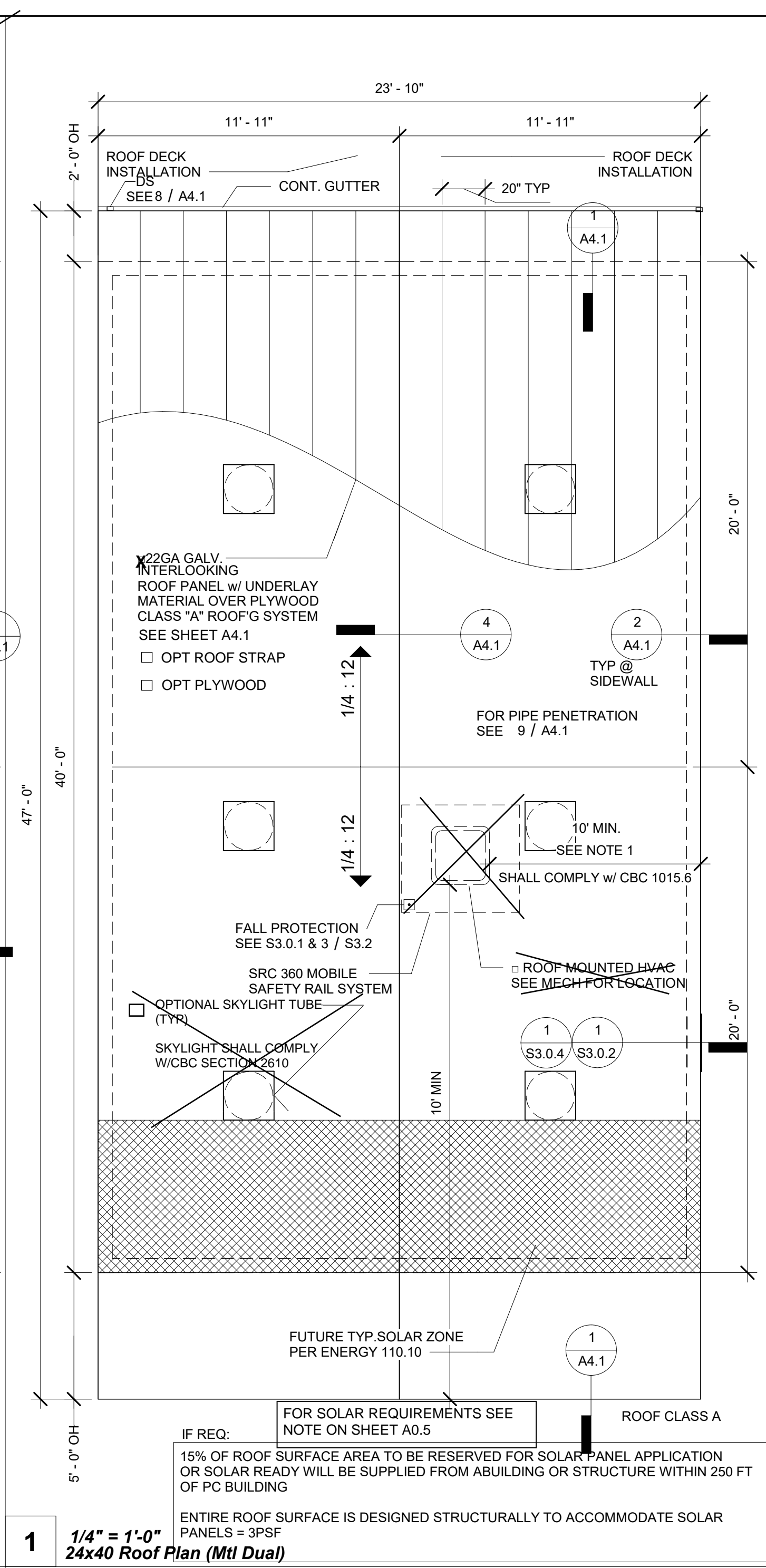
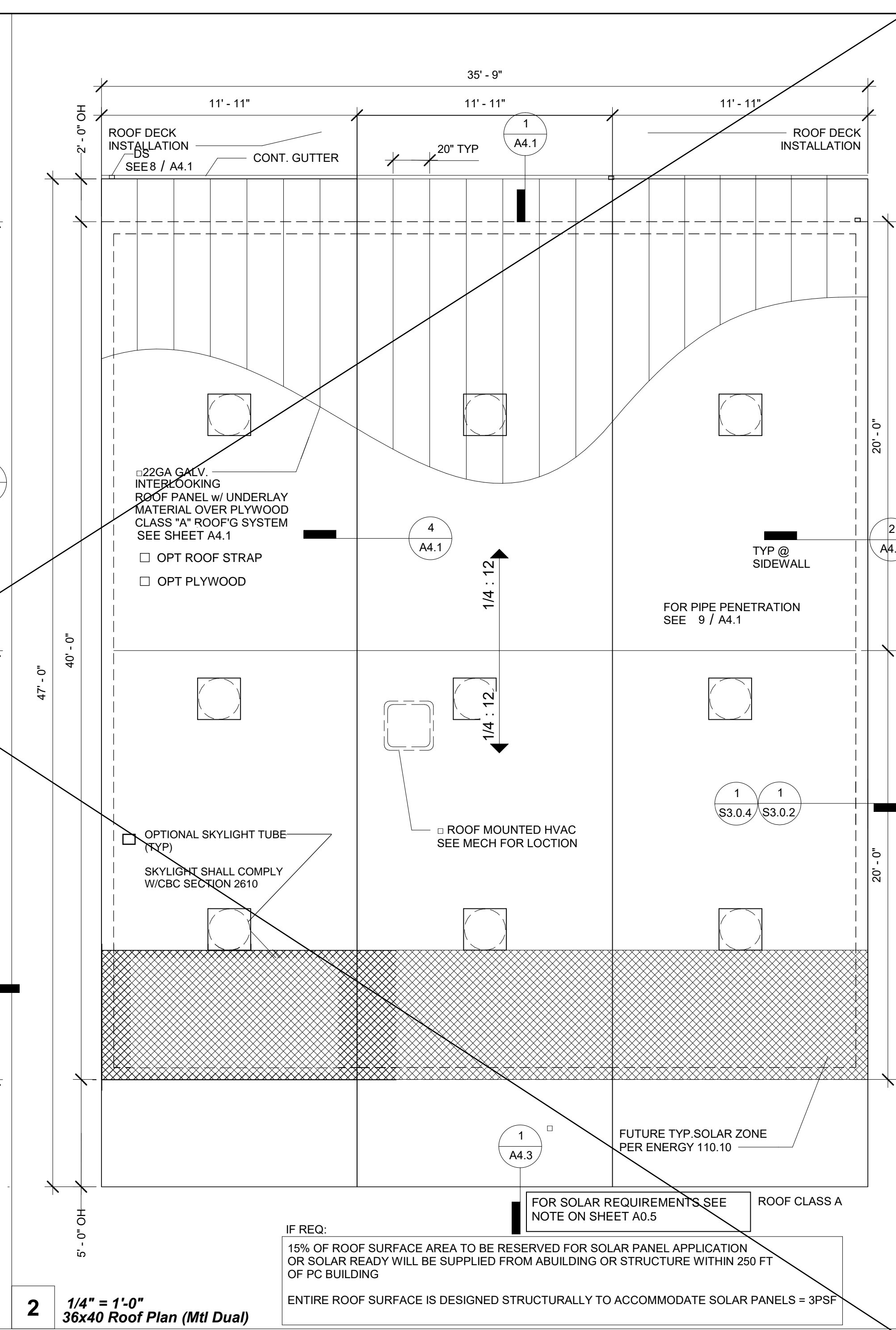
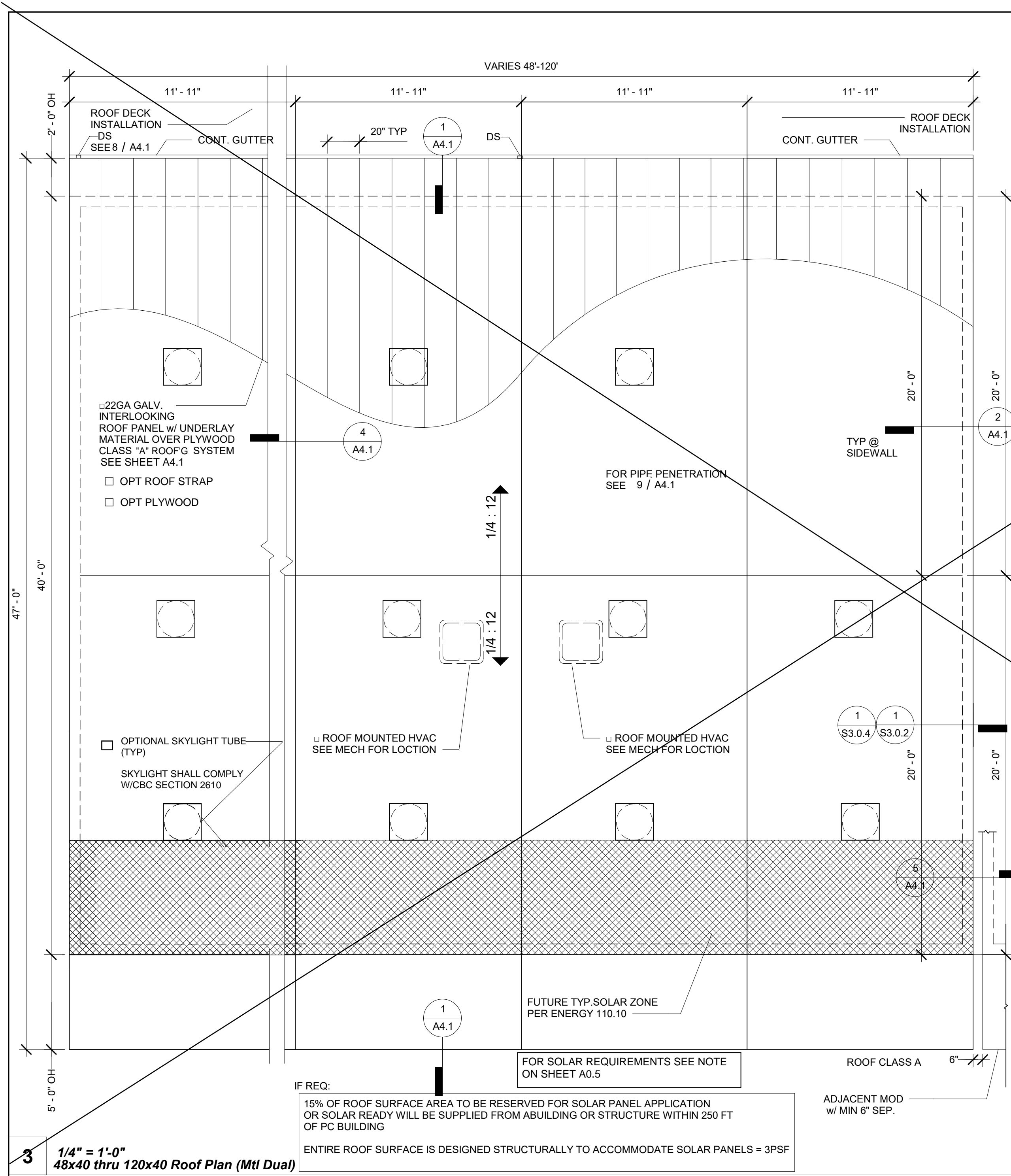
CHECKED BY
RH/RT

DATE

SHEET NO.
A3.3

SHEET OF

6/15/2021 11:51:03 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CESAR24D63.rvt



Note: For conditioned structures, roofing must be installed IAW 2022 CBC SECTION 1202.3

1202.3 Unvented Attic and Unvented Enclosed Rafter Assemblies

Unvented attics and unvented enclosed roof framing assemblies created by ceilings applied directly to the underside of the roof framing members/rafters and the structural roof sheathing at the top of the roof framing members shall be permitted where all of the following conditions are met:

- The unvented attic space is completely within the building thermal envelope.
- No interior Class I vapor retarders are installed on the ceiling side (attic floor) of the unvented attic assembly or on the ceiling side of the unvented enclosed roof framing assembly.
- Where wood shingles or shakes are used, not less than a 1/4-inch (6.4 mm) vented airspace separates the shingles or shakes and the roofing underlayment above the structural sheathing.
- In Climate Zones 14 and 16, any air-impermeable insulation shall be a Class II vapor retarder or shall have a Class II vapor retarder coating or covering in direct contact with the underside of the insulation.

See the California Energy Code, Figure 100.1-A — California Climate Zones.

4.1. [HCD 1 & HCD 2] In Climate Zones 14 and 16, a Class I or Class II vapor retarder shall be installed on the indirectly conditioned space side of all insulation in an unvented attic with air-permeable insulation, for condensation control.

5. Insulation shall be located in accordance with the following:

- Item 5.1.1, 5.1.2, 5.1.3 or 5.1.4 shall be met, depending on the air permeability of the insulation directly under the structural roof sheathing. No insulation shall be required when roof tiles, wood shingles or wood shakes, or any other roofing system using battens and no continuous underlayment is installed. A continuous underlayment shall be considered to exist if sheathing, roofing paper or any continuous layer having a perm rate of no more than one perm under the dry cup method is present.
- Where both air-impermeable and air-permeable insulation are provided, the air-impermeable insulation shall be applied in direct contact with the underside of the structural roof sheathing and shall be in accordance with the R-values in Table 1202.3 for condensation control.
- Where both air-impermeable and air-permeable insulation are provided, the air-impermeable insulation shall be applied in direct contact with the underside of the structural roof sheathing and shall be in accordance with the R-values in Table 1202.3 for condensation control.
- Alternatively, sufficient rigid board or sheet insulation shall be installed directly above the structural roof sheathing to maintain the monthly average temperature of the underside of the structural roof sheathing above 45°F (7°C). For calculation purposes, an interior air temperature of 68°F (20°C) is assumed and the exterior air temperature is assumed to be the monthly average outside air temperature of the three coldest months.

5.2. Where performed insulation board is used as the air-impermeable insulation layer, it shall be sealed at the perimeter of each individual sheet interior surface to form a continuous layer.

Exceptions:

- Section 1202.3 does not apply to special use structures or enclosures such as swimming pool enclosures, data processing centers, hospitals or art galleries.
- Section 1202.3 does not apply to enclosures in Climate Zones 14 and 16 that are humidified beyond 35 percent during the three coldest months.

CLIMATE ZONE	MINIMUM R-VALUE OF AIR-IMPERMEABLE INSULATION*
2B and 3B tile roof only	0 (none required)
1, 2A, 2B, 3A, 3B, 3C	R-5
4C	R-10
4A, 4B	R-15
5	R-20
6	R-25
7	R-30
8	R-35

* Contributes to, but does not supersede, thermal resistance requirements for attic and roof assemblies in the California Energy Code.

NOTE: PER CBC 1015.6, - EXCEPTION, GUARDRAILS ARE NOT REQUIRED WHERE PERMANENT FALL RESTRAINT ANCHORAGE DEVICES ARE AFFIXED & SHALL BE PLACED NOT MORE THAN 10FT FROM THE ROOF EDGE.

PV AREA FOR FIRE ACCESS REQ (PER IR 16-9)

3.2.1 General Requirements: A PV System shall be typically considered equipment. There is typically not an occupancy group classification, building area limitation, or type of construction assignment to a PV system.

- PV equipment supported by non-combustible framing installed in locations dedicated for building frontage used for area increases per California Building Code (CBC), Chapter 5, Section 506, shall be limited in size and may be allowed on a case by case basis. Maximum area that may be allowed for such systems shall not exceed 1/3 of the horizontal projected area of each frontage.
- Open sided PV systems and framing that are non-combustible and without use underneath may be considered equipment and may be placed next to DSA IR 16-9 Solar Photovoltaic and Thermal (updated 01-25-17) Systems Review and Approval Requirements Page 11 of 19 property lines. Signs may be required on or near the system prohibiting any use or storage underneath the equipment.
- Combustible PV systems and framing and those with use underneath such as for assembly or parking, may need to comply with 2022 CBC, Table 602. These structures may include those that do and that do not have a roof underneath the PV system.
- PV systems (both the frame and the array) shall not be placed in fire department access roads. (Per Title 24 CCR, Division 1, Chapter 1, Section 3.05 and 2022 CFC Chapter 5, Section 503.)
- Access to a public way or safe dispersal area shall not be obstructed by the system or system framing. (CBC 1027.6 and 442.3)
- PV systems that cover a lunch area or similar (occupant load less than 50), that are not used for assembly purposes shall be considered equipment. Playgrounds would also fall into this category regardless of total occupant load.
- Any PV system that is installed above an assembly use (i.e. Group A-3 or A-5 occupancy classification) shall be considered an open sided building structure and all or portions of CBC provisions apply on a case by case basis. Such areas might include an outdoor amphitheater, bleacher or grandstand seating with concentrated occupant loads and heavy use.
- Fire Department concern for the installation of roof mounted PV systems will be addressed by DSA review to the State Fire Marshal Solar Photovoltaic Installation Guideline available at: <http://osfm.fire.ca.gov/pdf/reports/solarphotovoltaicguideline.pdf>
- When a PV system, without riser framework, is installed directly on a rated roof assembly with a required classification greater than "Class C" found in CBC, Chapter 15, and f

1202.3 Unvented Attic and Unvented Enclosed Rafter Assemblies

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See the California Energy Code, Figure 100.1-A — California Climate Zones.

4.1. [HCD 1 & HCD 2] In Climate Zones 14 and 16, a Class I or Class II vapor retarder shall be installed on the indirectly conditioned space side of all insulation in an unvented attic with air-permeable insulation, for condensation control.

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- Where both air-impermeable and air-permeable insulation are provided, the air-impermeable insulation shall be applied in direct contact with the underside of the structural roof sheathing and shall be in accordance with the R-values in Table 1202.3 for condensation control.
- Where both air-impermeable and air-permeable insulation are provided, the air-impermeable insulation shall be applied in direct contact with the underside of the structural roof sheathing and shall be in accordance with the R-values in Table 1202.3 for condensation control.
- Alternatively, sufficient rigid board or sheet insulation shall be installed directly above the structural roof sheathing to maintain the monthly average temperature of the underside of the structural roof sheathing above 45°F (7°C). For calculation purposes, an interior air temperature of 68°F (20°C) is assumed and the exterior air temperature is assumed to be the monthly average outside air temperature of the three coldest months.

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4A, 4B	R-15
5	R-20
6	R-25
7	R-30
8	R-35

* Contributes to, but does not supersede, thermal resistance requirements for attic and roof assemblies in the California Energy Code.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
DESIGN & CONSULTING • PROJECT MGT
11500 W BERNHARD COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FLORES
63380
03/31/24
CALIFORNIA
STATE OF CALIFORNIA
05/24/23
RST#22088

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Class Leasing
1320 W. Oleander Ave, Perris CA 92571-7408
VOICE (951) 943-1908/Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
**PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'**

SHEET TITLE
**ROOF PLAN DUAL
SLOPE (STANDING
SEAM)**

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

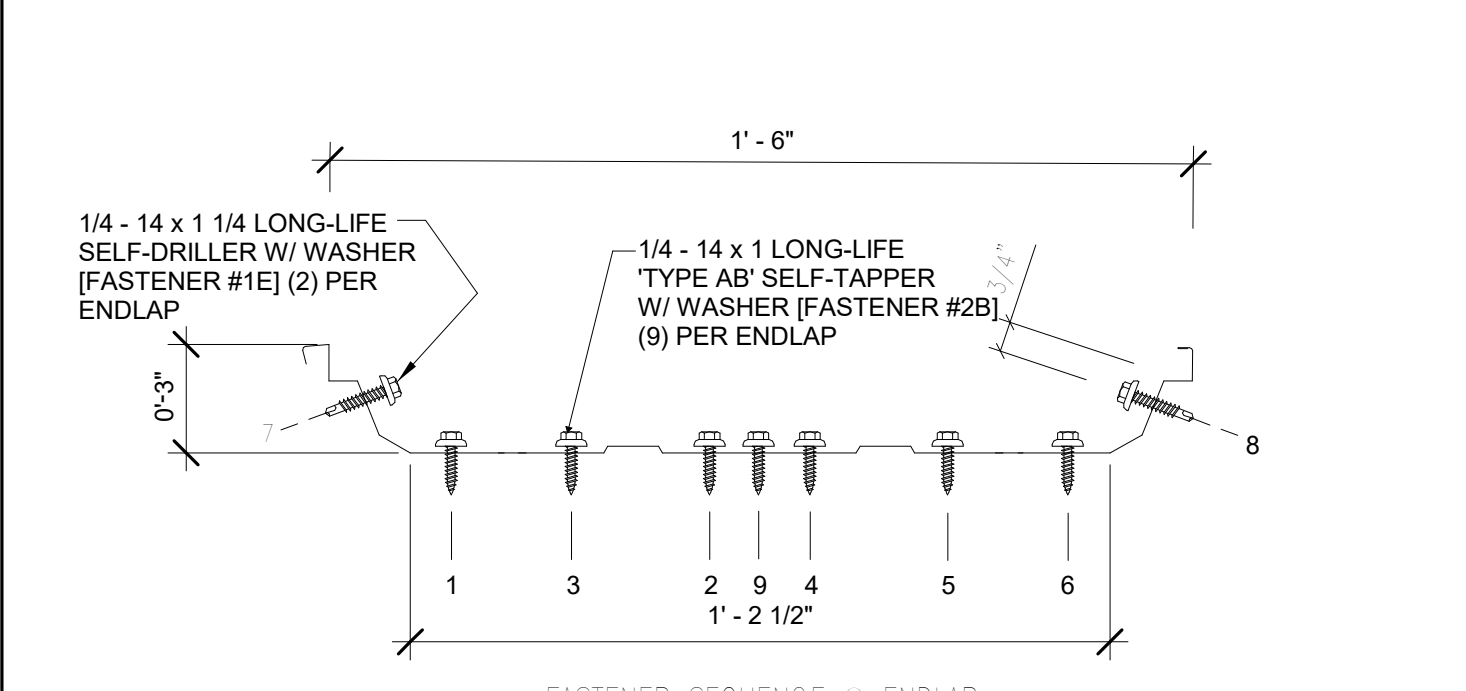
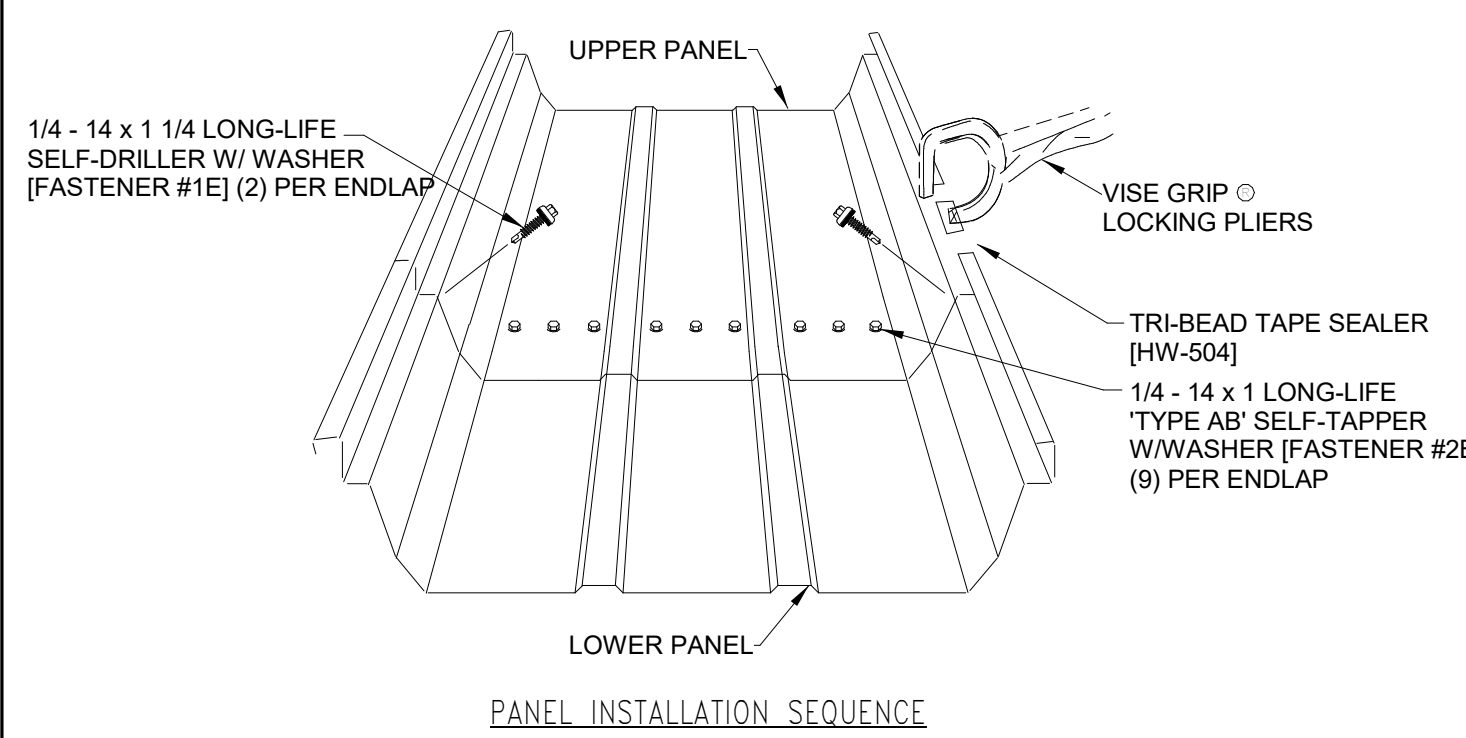
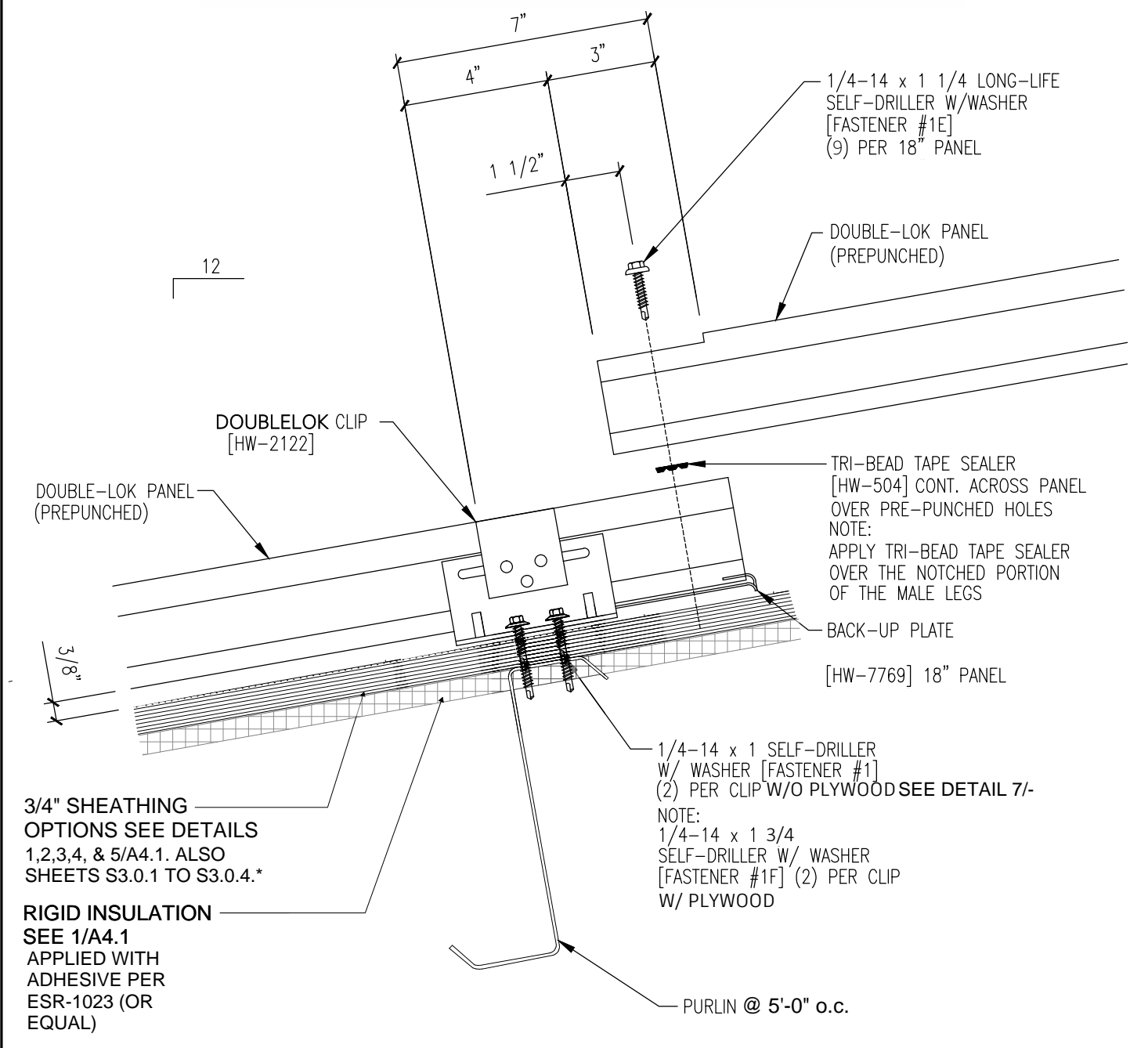
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Clip - 2" Sliding (Low)

PART #	DESCRIPTION	HEIGHT	WEIGHT EACH	PRICED PER EACH
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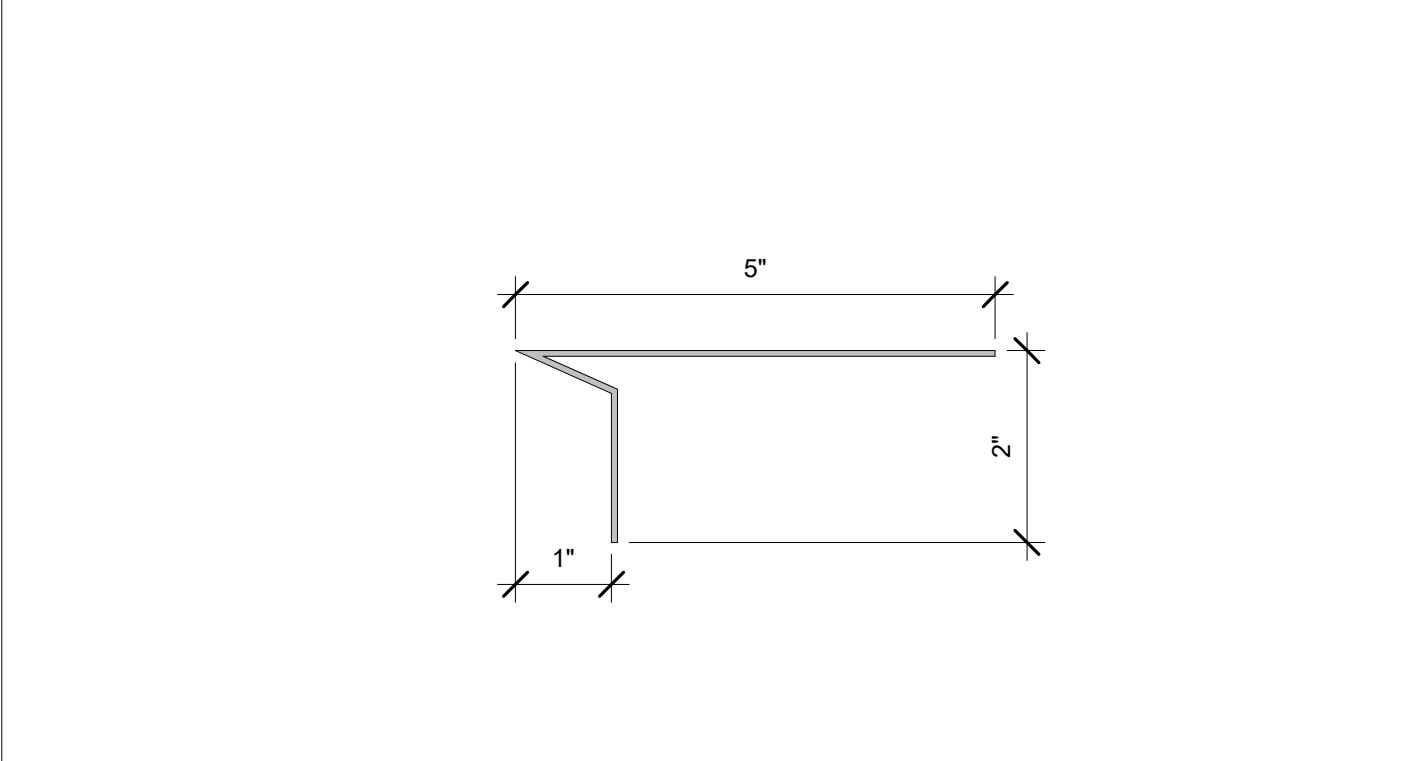
18" DOUBLE-LOK 22GA STANDING SEAM PANEL BY MBCL

NEG	POS
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S _x = 0.1846 IN ²	S _x = 0.2154 IN ²
I _x = 0.2718 IN ⁴	I _x = 0.4968 IN ⁴
F _y = 50 KSI	F _y = 50 KSI

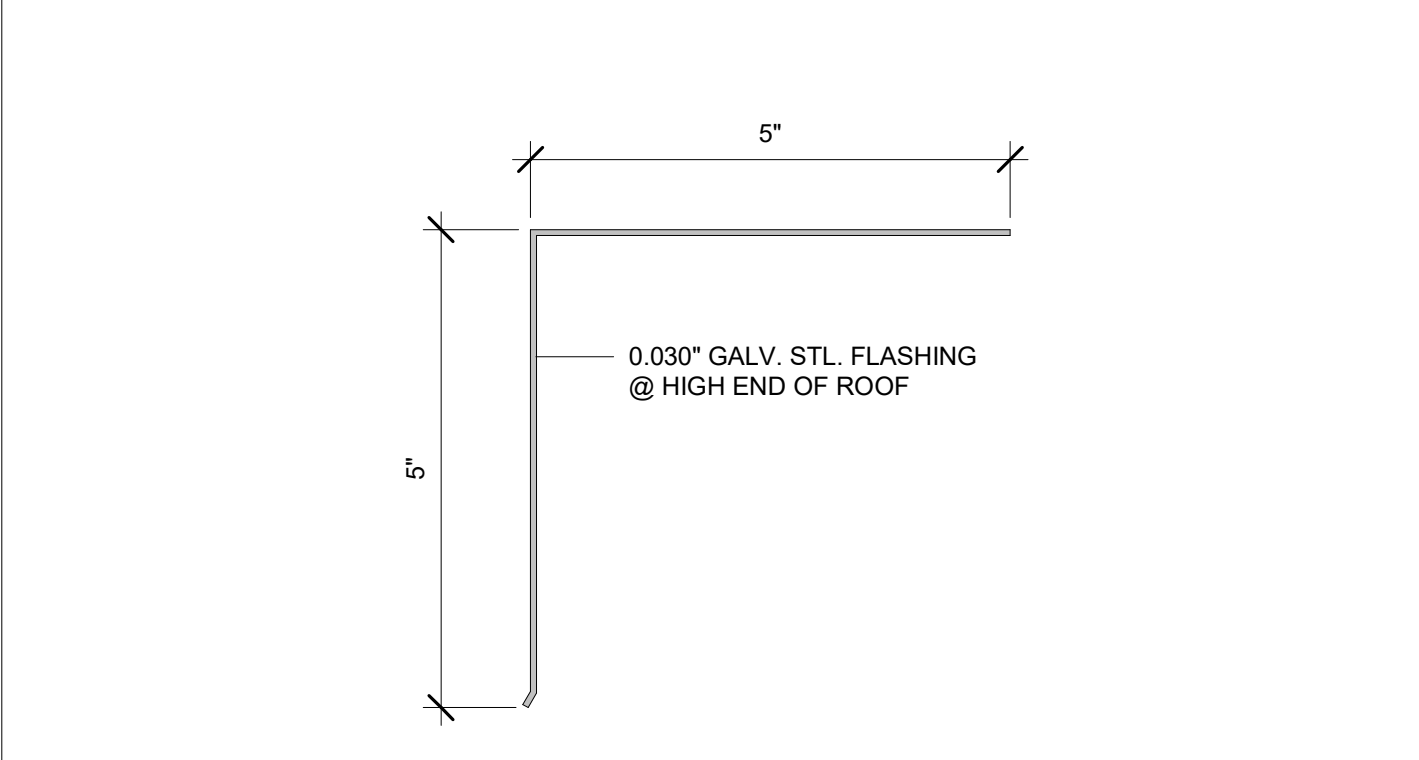
FOR ALL METAL ROOFING SYSTEMS USE OR EQUAL

*PLYWOOD UNDERLAY IS USED PER S3.0.1 & S3.0.2 CONDITIONS AND IS OPTIONAL AT THE METAL DECK CONDITIONS PER S3.0.3 & S3.0.4

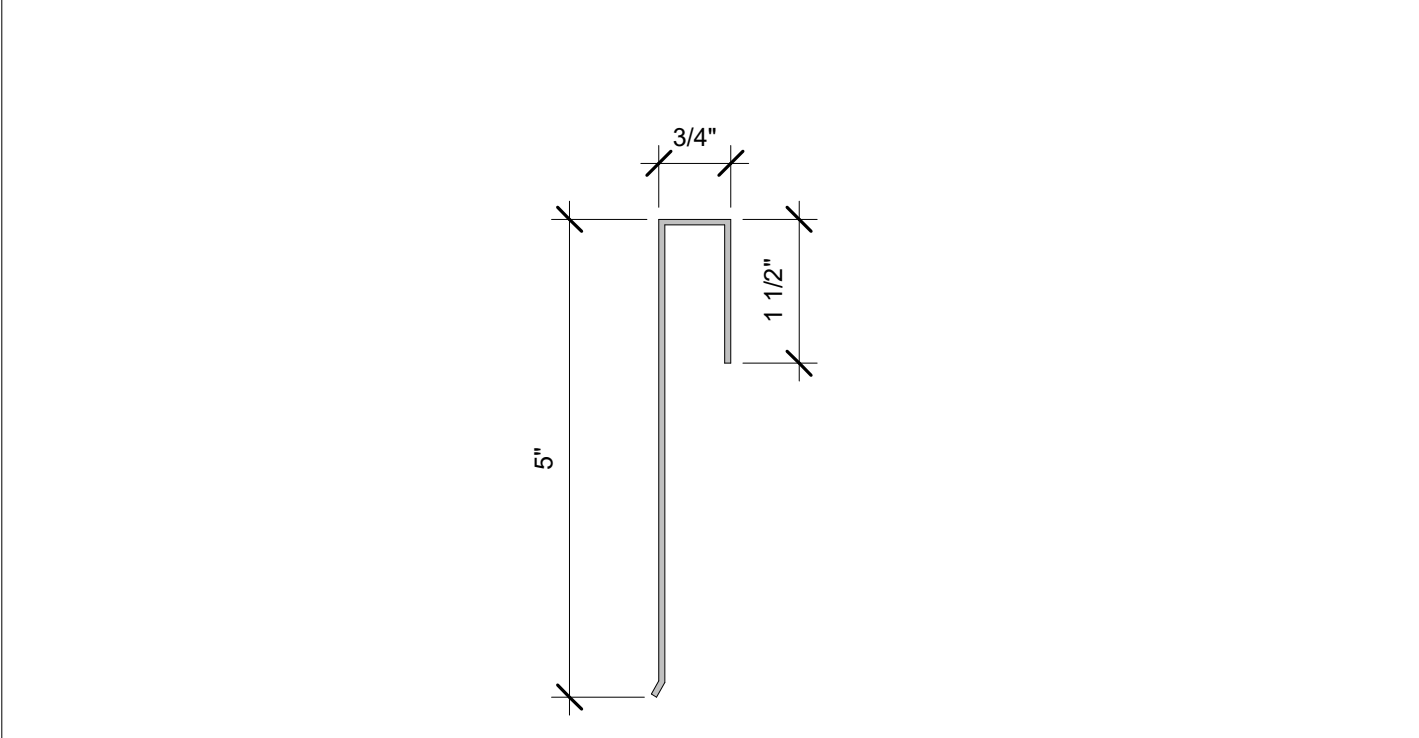
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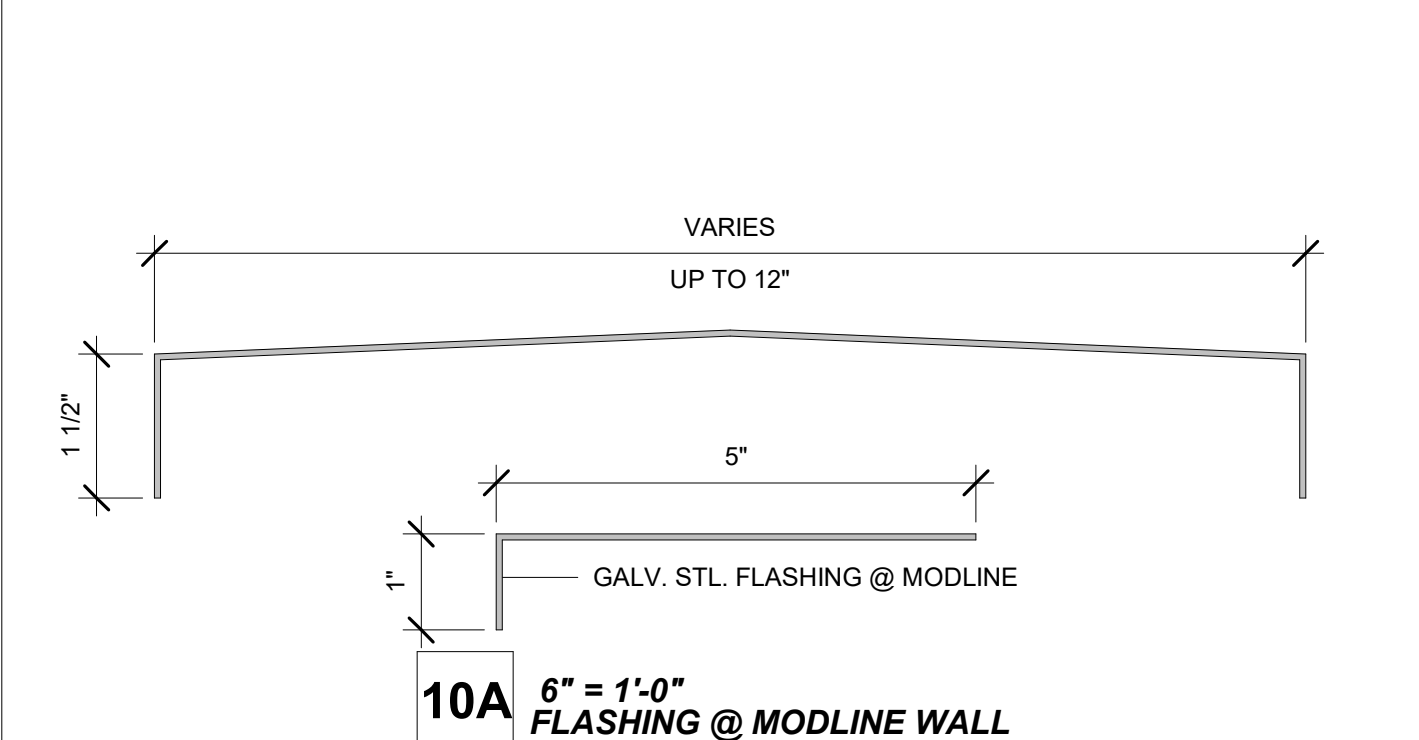
13 6" = 1'-0" FLASHING @ ROOF LOW SIDE



12 6" = 1'-0" ROOF FLASHING

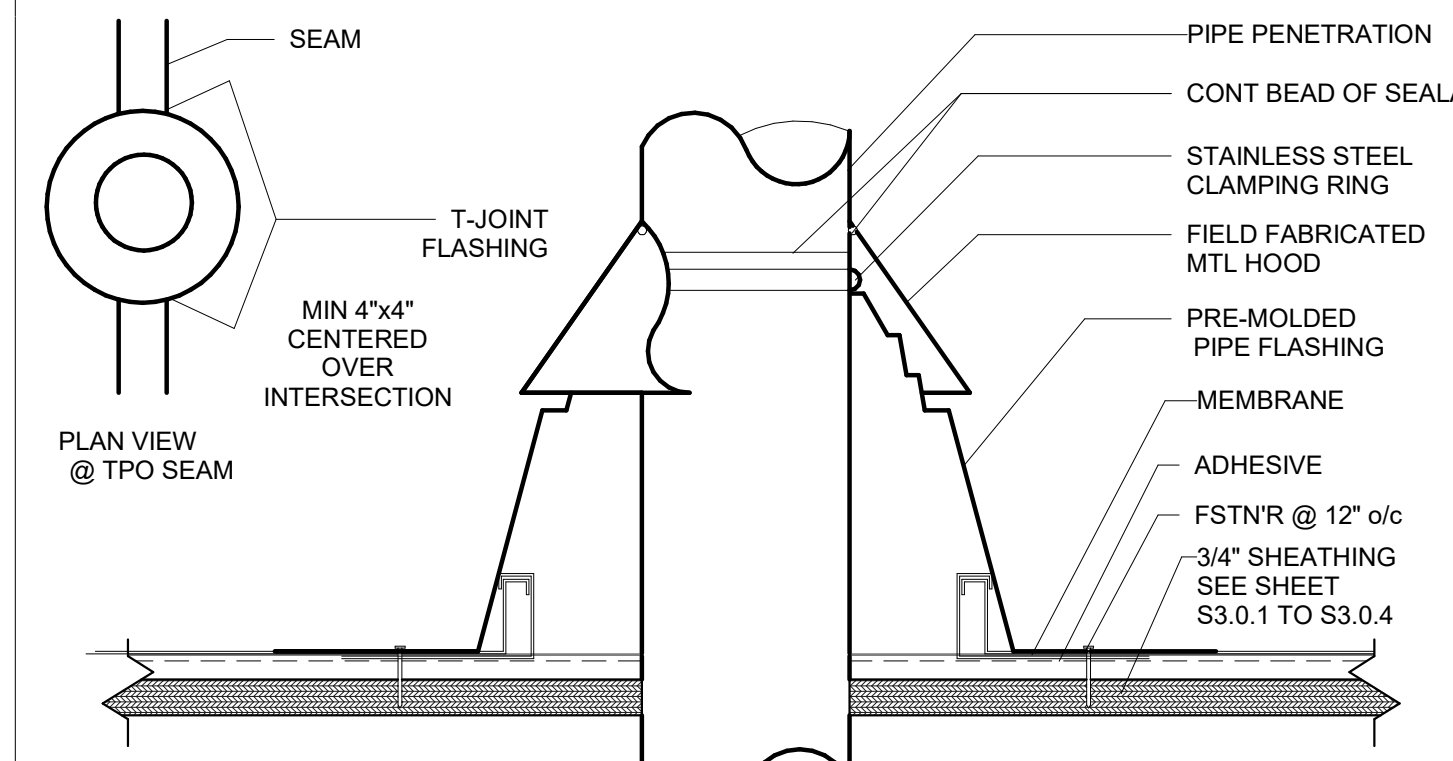


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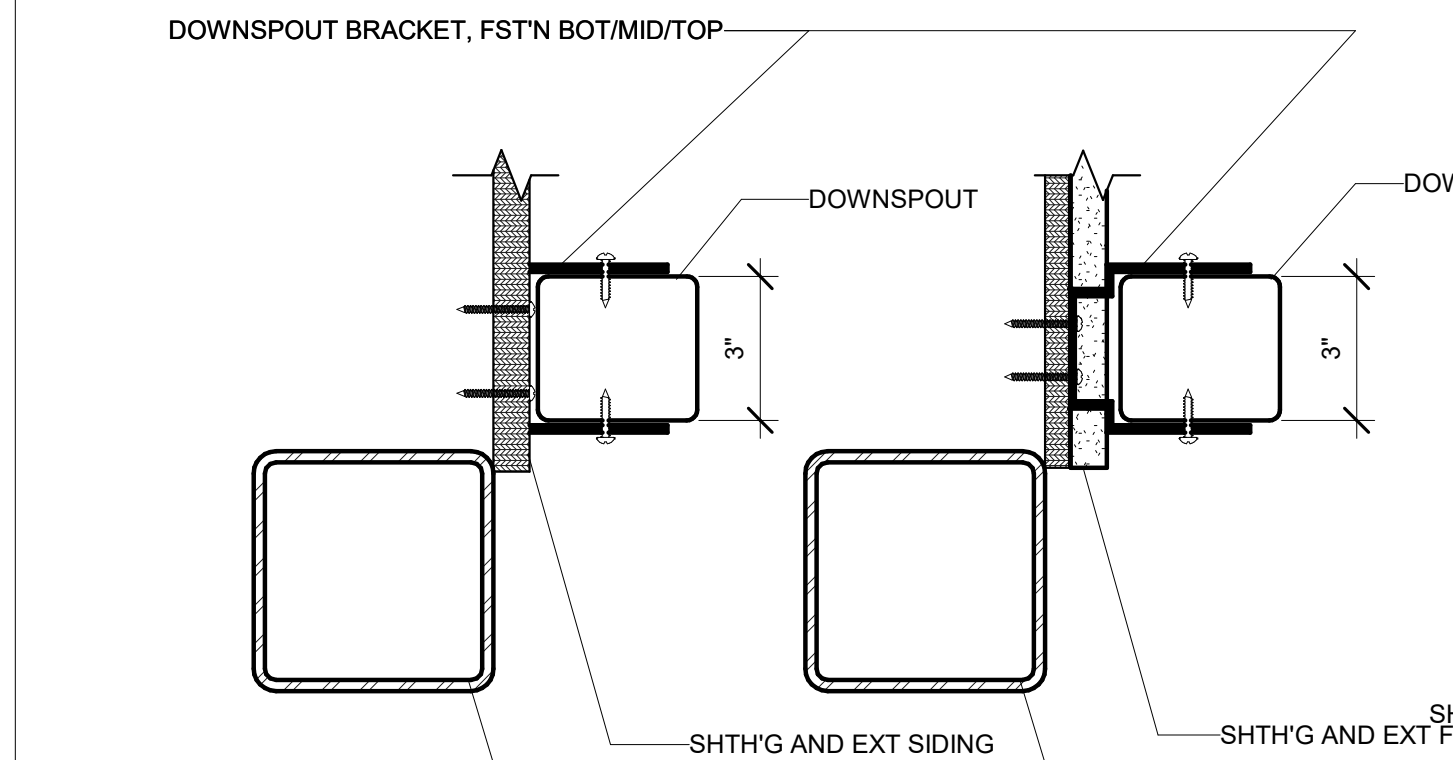


10 6" = 1'-0" ROOF CAP @ MODLINE

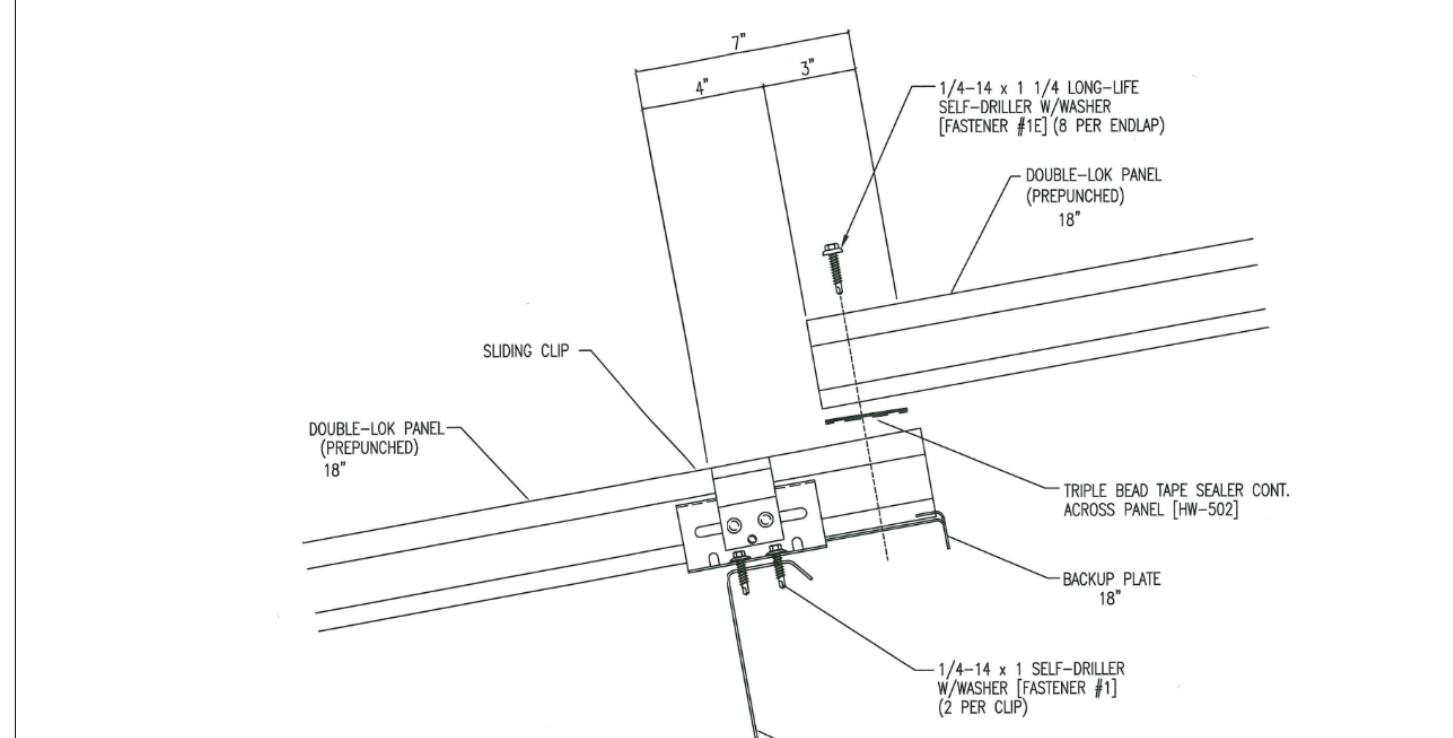
5A 3" = 1'-0" Roof @ Mateline Std'g Seam w/ 6" Sep



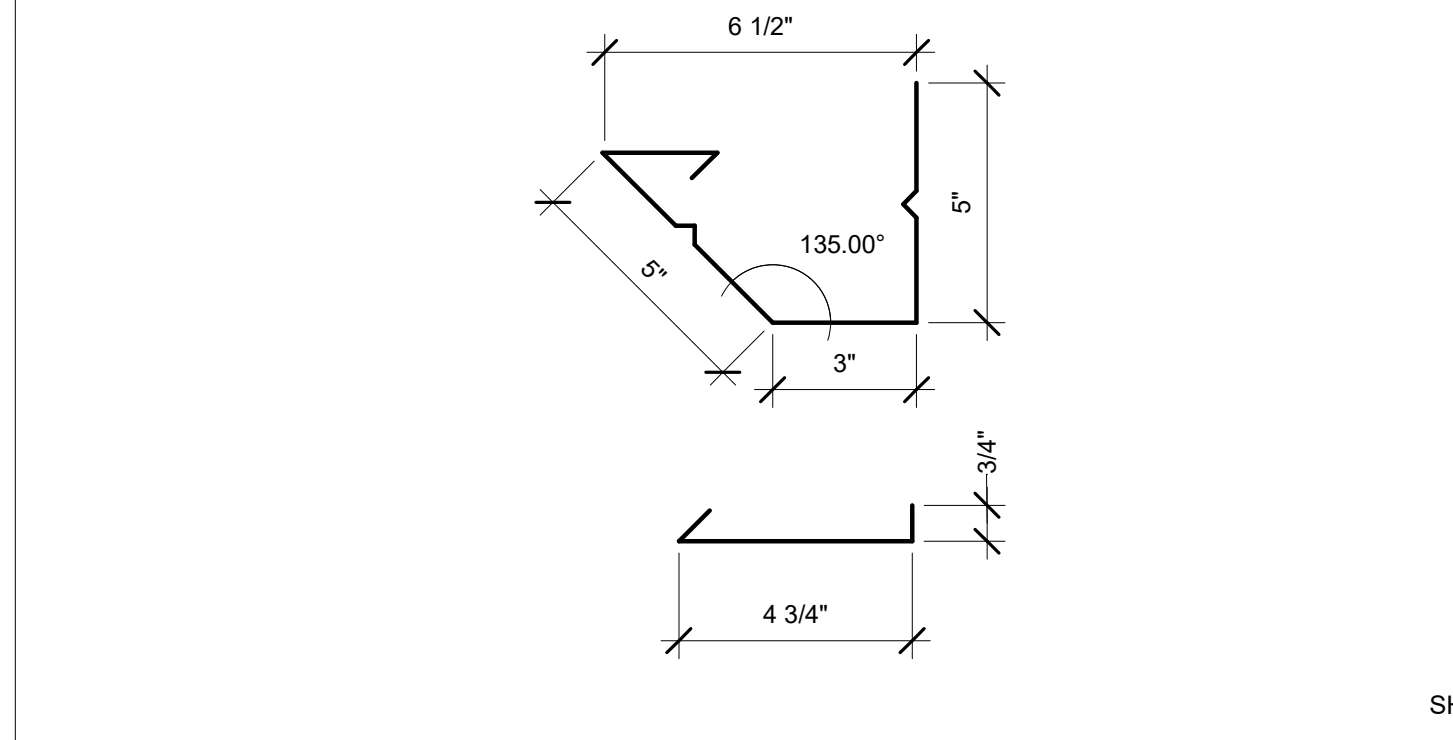
9 3" = 1'-0" Pipe Penetration Standing Seam



8 3" = 1'-0" Downspout Mount1

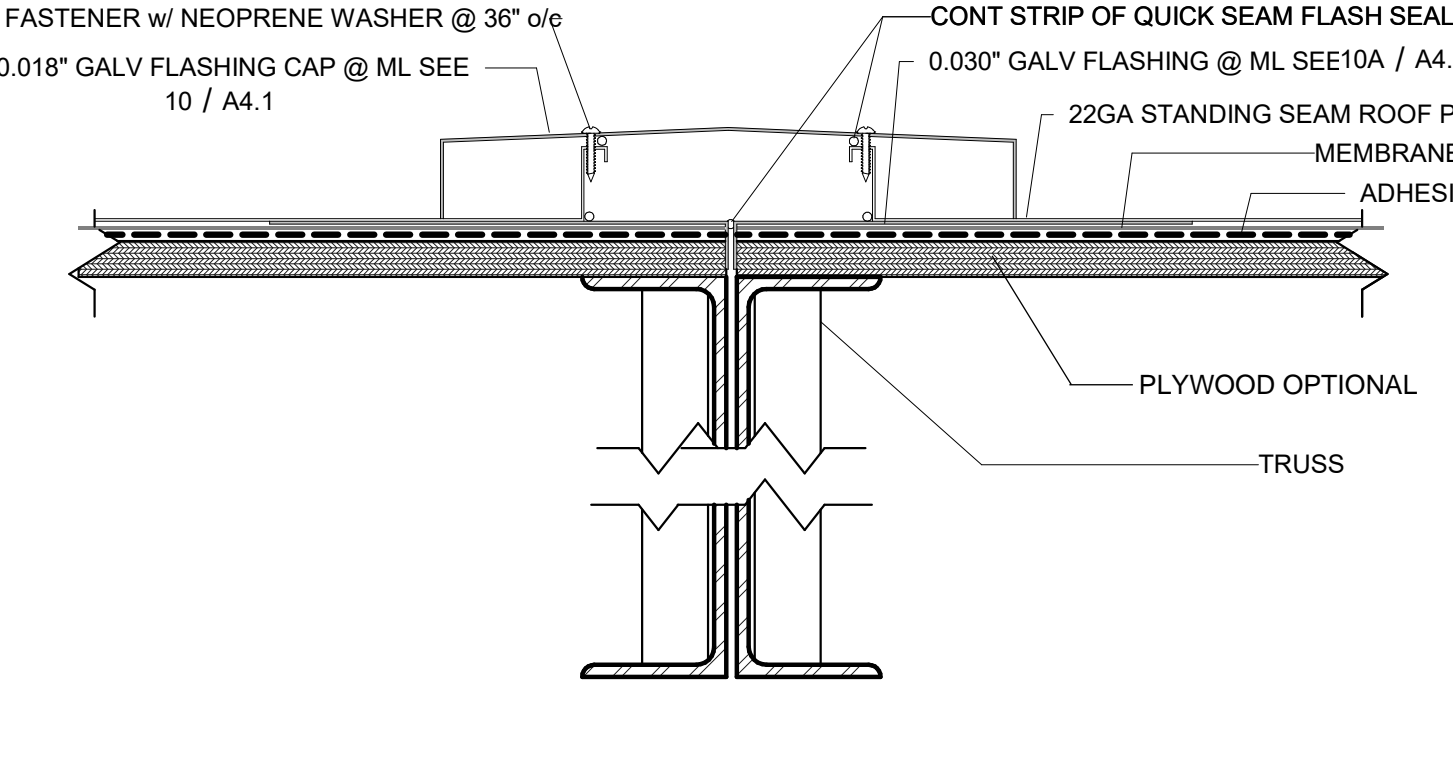


7 3" = 1'-0" Roof @ Endwall Std'g Seam (High End)

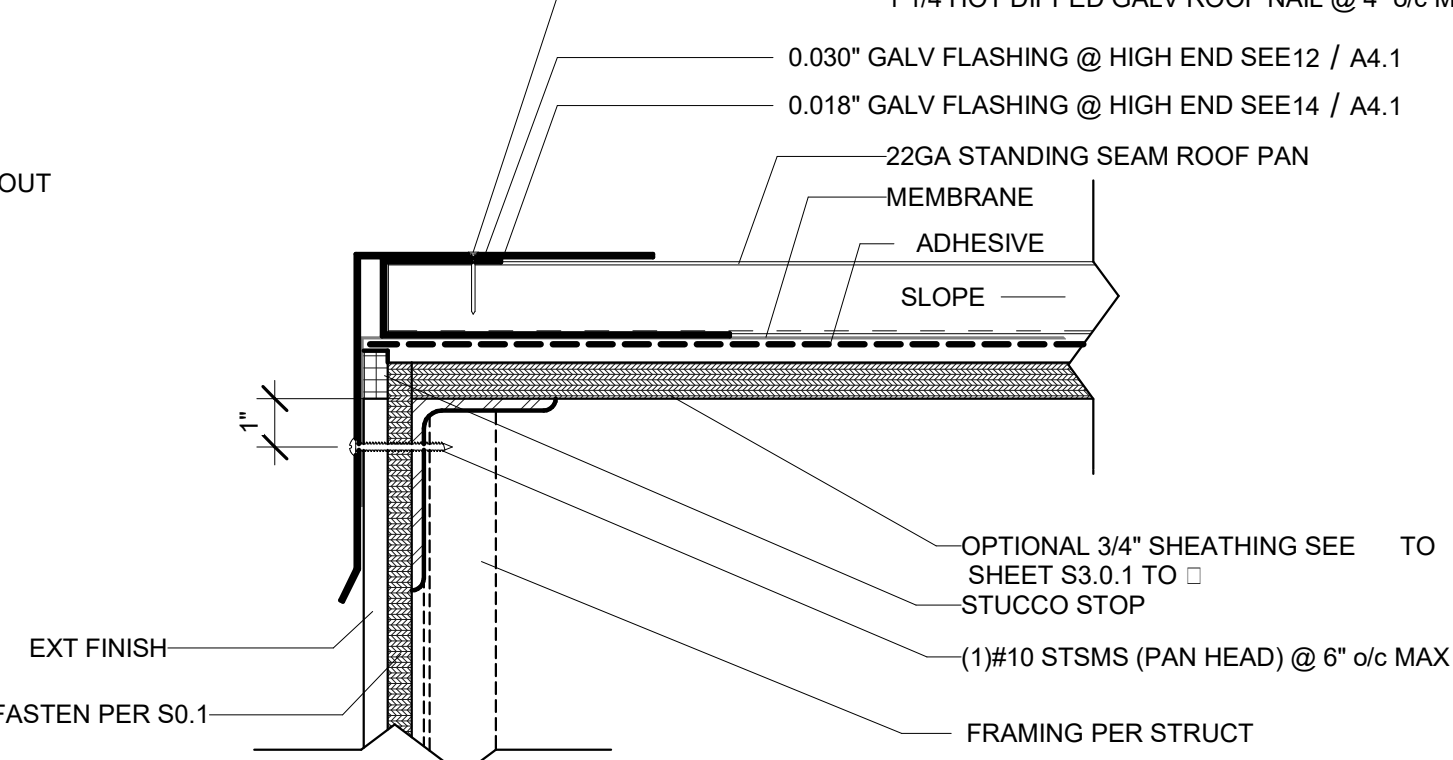


6 3" = 1'-0" Gutter and Strap

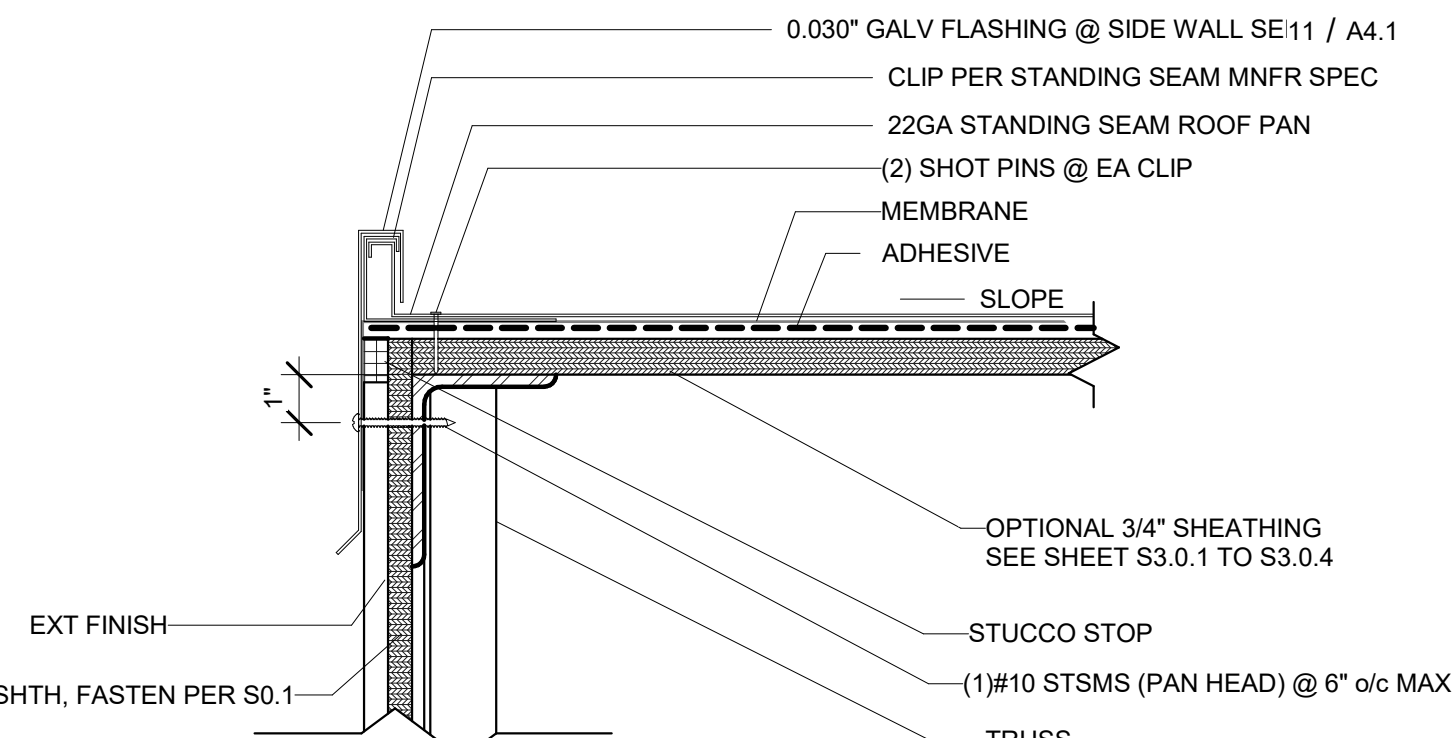
5 3" = 1'-0" Roof @ Standing Seam Mateline



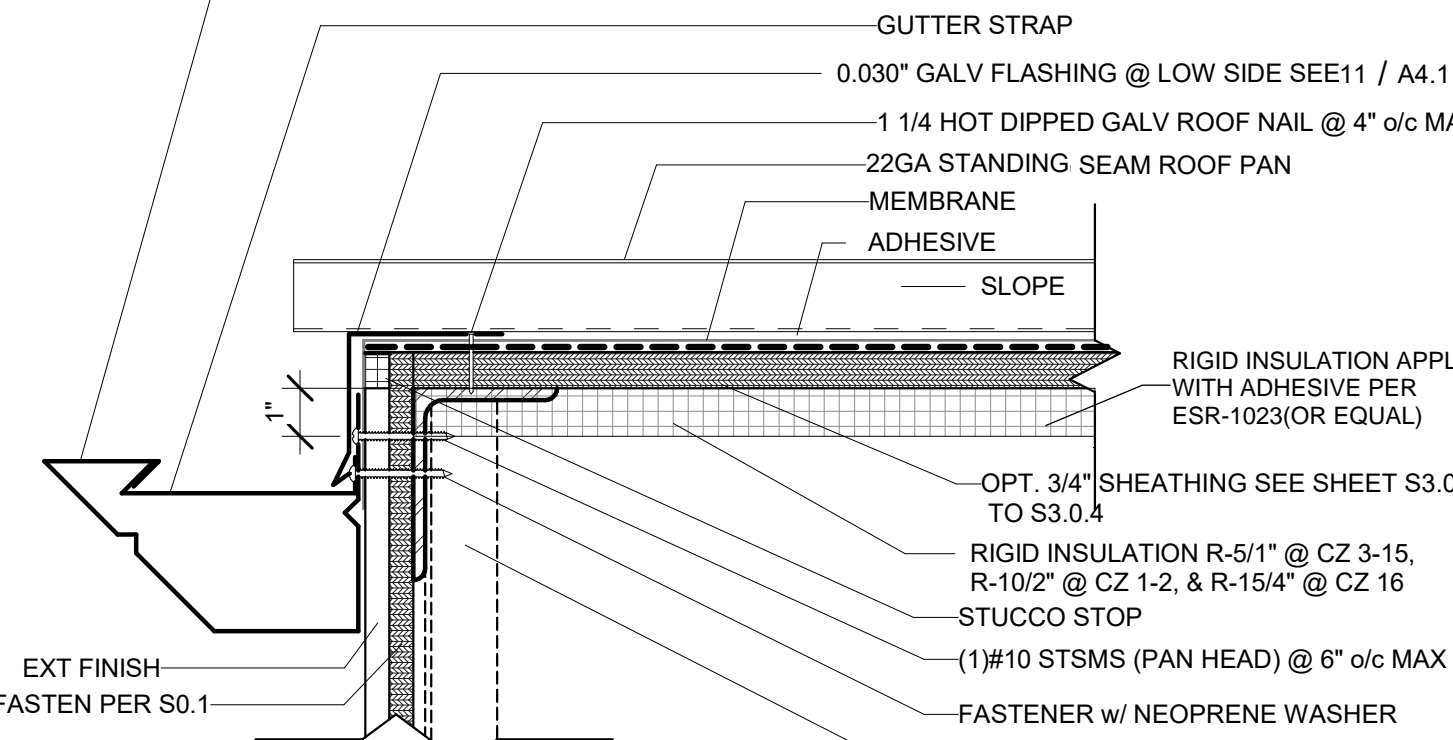
4 3" = 1'-0" Roof @ Endwall Std'g Seam (Low End)



3 3" = 1'-0" Roof @ Endwall Std'g Seam (Low End)



2 3" = 1'-0" Roof @ Standing Seam Sidwall



1 3" = 1'-0" Roof @ Endwall Std'g Seam (Low End)

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
DESIGN & CONSULTING & PROJECT MGMT
1150 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FLORES
03380
03/31/24
REGISTERED ARCHITECT
STATE OF CALIFORNIA
05/24/23
RST#22088

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CLIENT

Class Leasing
1320 W. Oleander Ave., Perris CA 92571-7408
VOICE (951) 943-1908/Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date
---	-------------	------

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
ROOF DETAILS (STANDING SEAM)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A4.1

Ext. Finish Schedule			
	Finishes	Sheet	Notes
<input checked="" type="checkbox"/>	SIDING OVER WD STUDS	A2.1	
<input type="checkbox"/>	PLASTER OVER 1/2" OSB OR 1/2" CDX PLY w/ WD STUDS	A2.2	
<input type="checkbox"/>	SIDING OVER STL STUDS	A2.3	
<input type="checkbox"/>	PLASTER OVER 1/2" OSB OR 1/2" CDX PLY w/ STL STUDS	A2.4	
<input type="checkbox"/>	LAP SIDING OVER 1/2" OSB OR 1/2" CDX PLY w/ STL STUDS		

Fire Rating Schedule			
	Rating	Sheet	Notes
<input type="checkbox"/>	1 HOUR - SIDING OVER WD STUDS	A2.5	
<input type="checkbox"/>	1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY w/ WD STUDS	A2.6	
<input type="checkbox"/>	1 HOUR - SIDING OVER STL STUDS	A2.7	
<input type="checkbox"/>	1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY w/ STL STUDS	A2.8	
<input type="checkbox"/>	1 HOUR - LAP SIDING OVER 1/2" OSB OR 1/2" CDX PLY w/ STL STUDS		

SEE A3.0 FOR ADDITIONAL FIRE ASSEMBLY NOTES AND DETAILS

9 1/4" = 1'-0"
Ext. Finish Schedule

10 1/4" = 1'-0"
Fire Rating Schedule

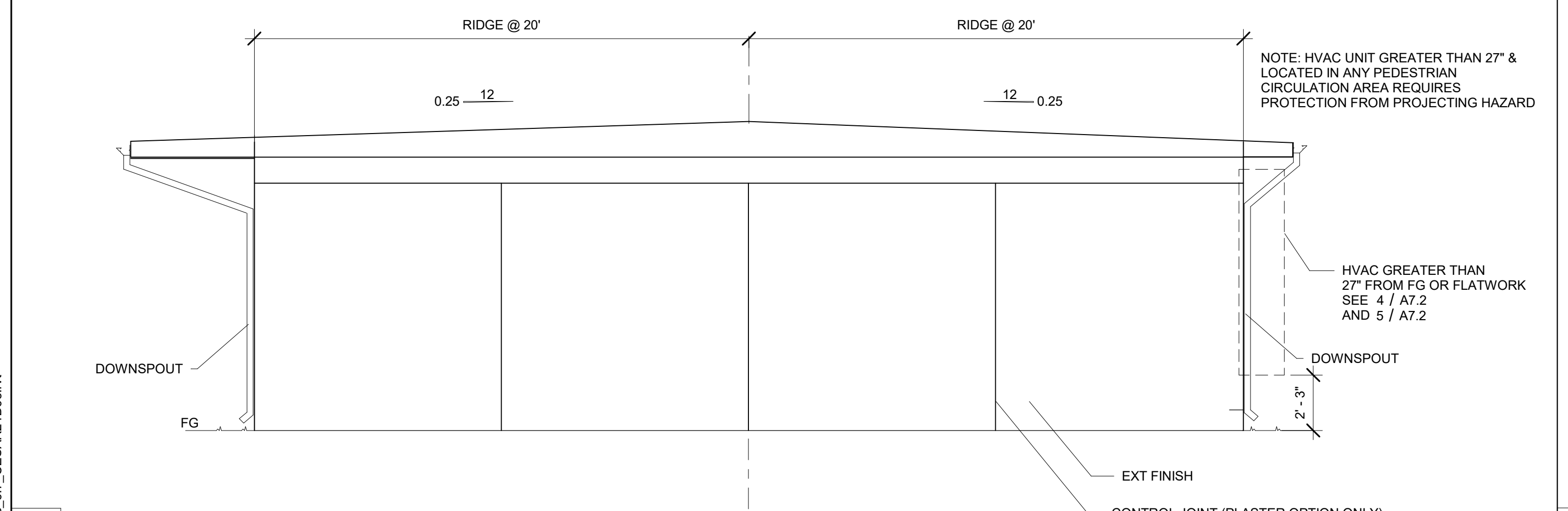
SEE A0.1 FOR GENERAL NOTES

Wall Schedule			
	Stud Size	Sheet	Notes
<input checked="" type="checkbox"/>	Wood Wall Stud	S4.5	
<input type="checkbox"/>	MJI Wall Stud	S4.5	CONTINUOUS EXT R-4 INSULATION

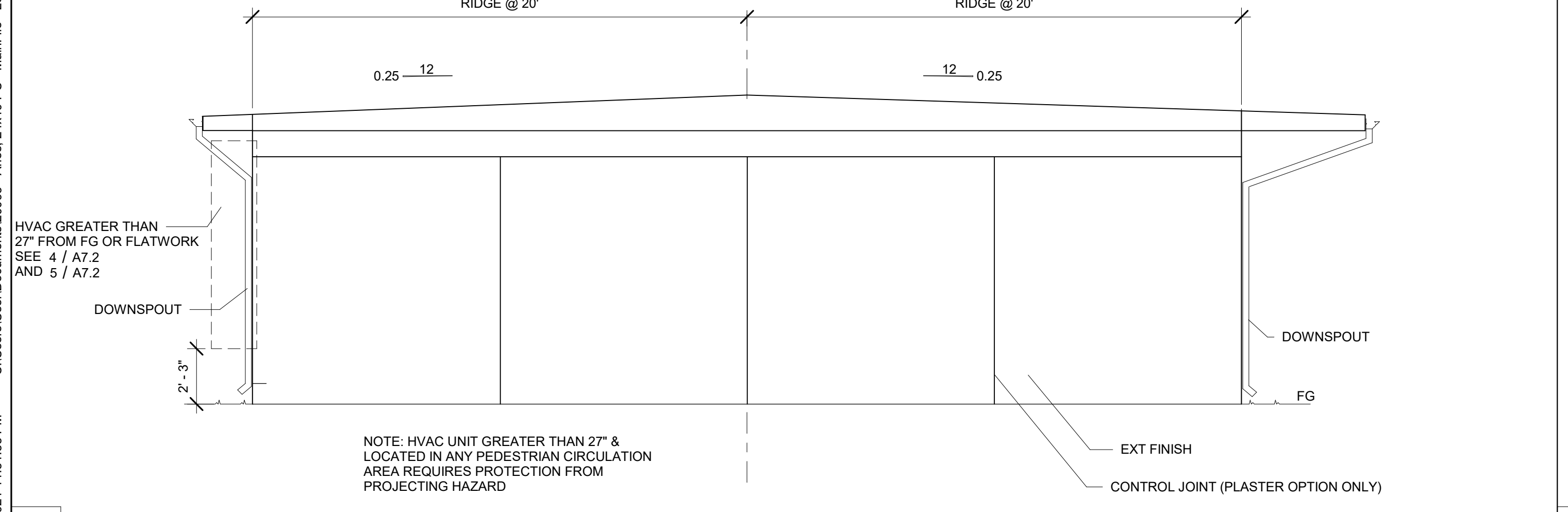
FOR WUI DETAILS, SEE SHEETS A2.1(B), A2.2(B), A2.3(B), A2.4(B), A2.7(B)

7 3" = 1'-0"
Notes A5.0

8 1/4" = 1'-0"
Wall Schedule

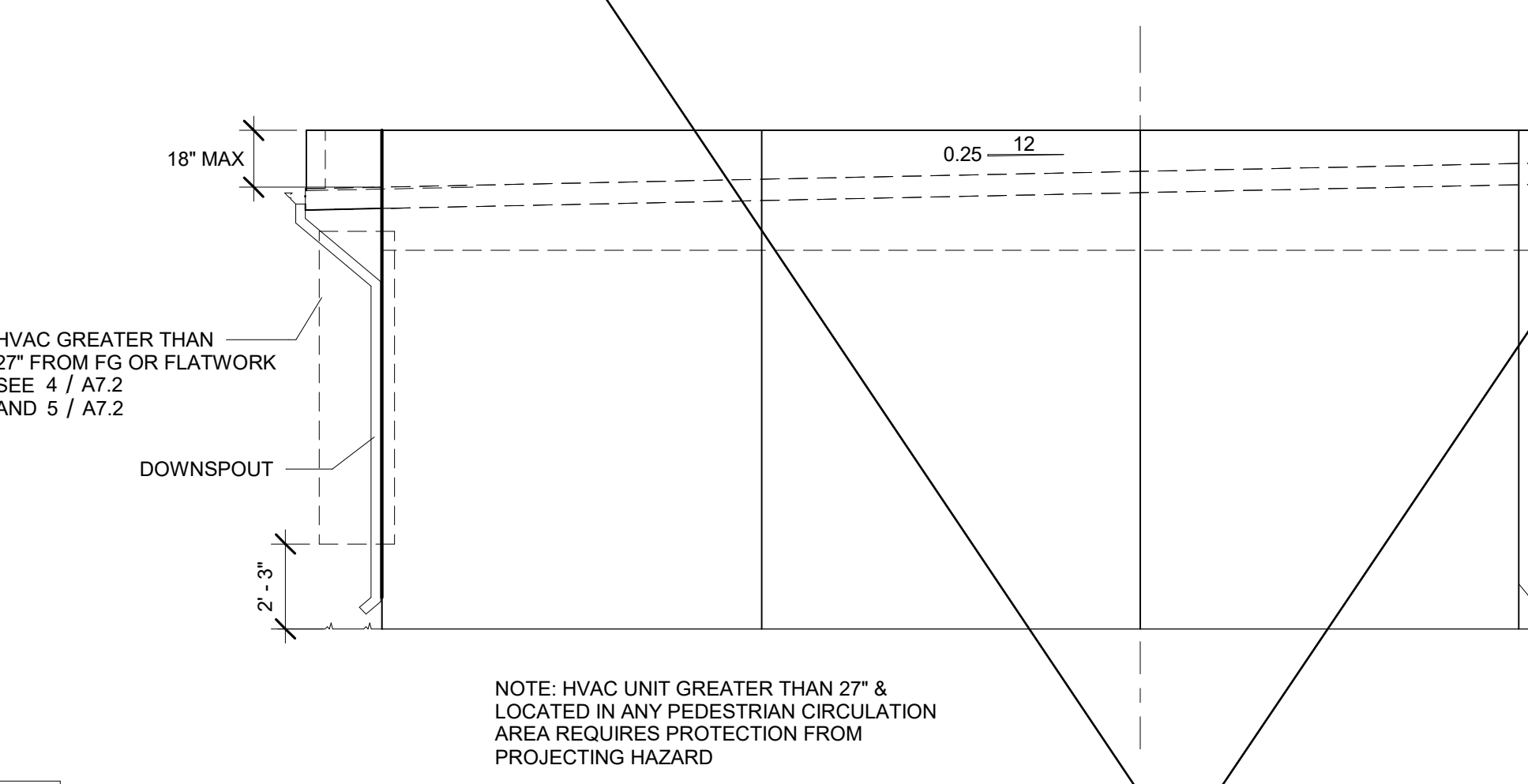


6 1/4" = 1'-0"
Right Elevation (Dual)

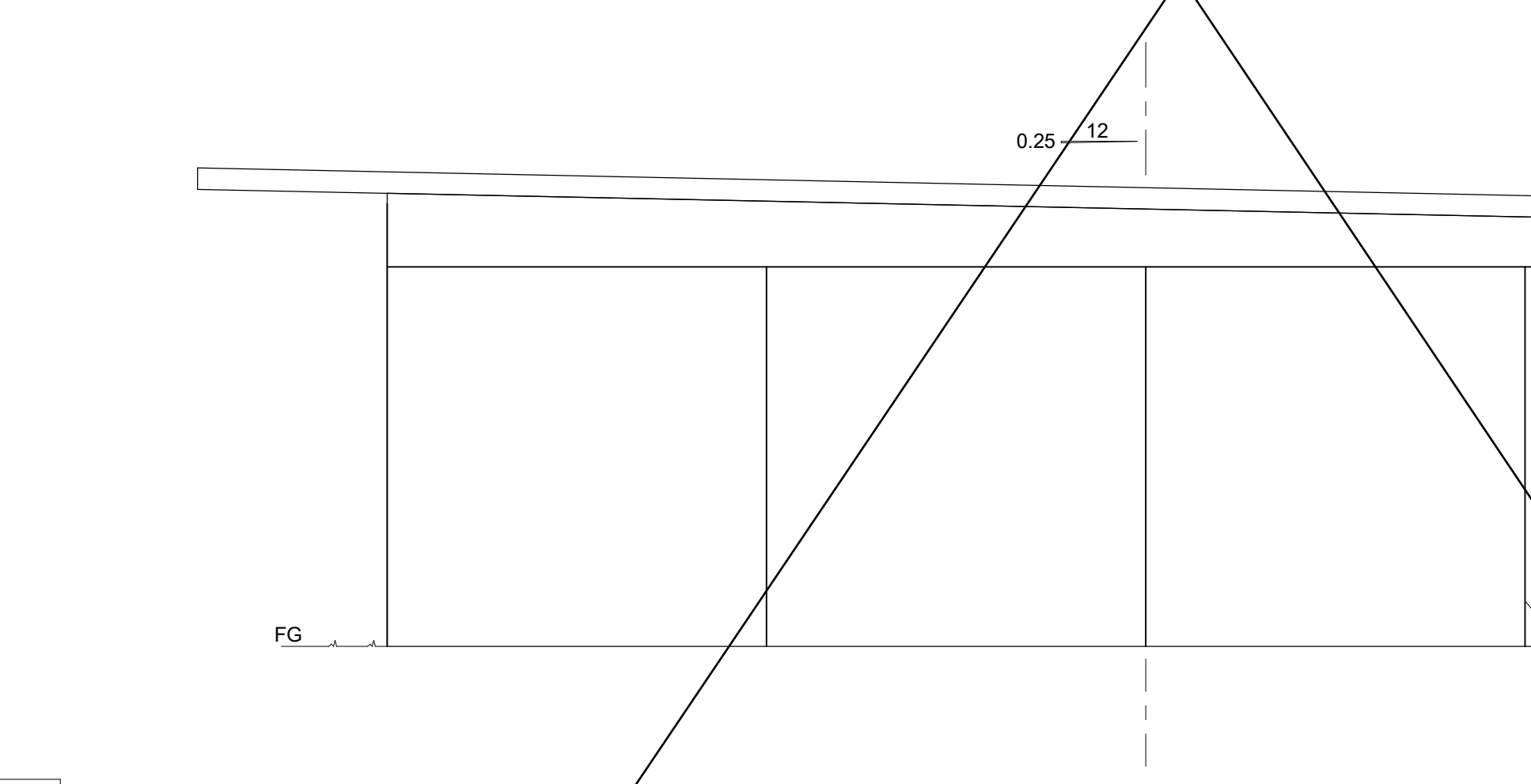


5 1/4" = 1'-0"
Left Elevation (Dual)

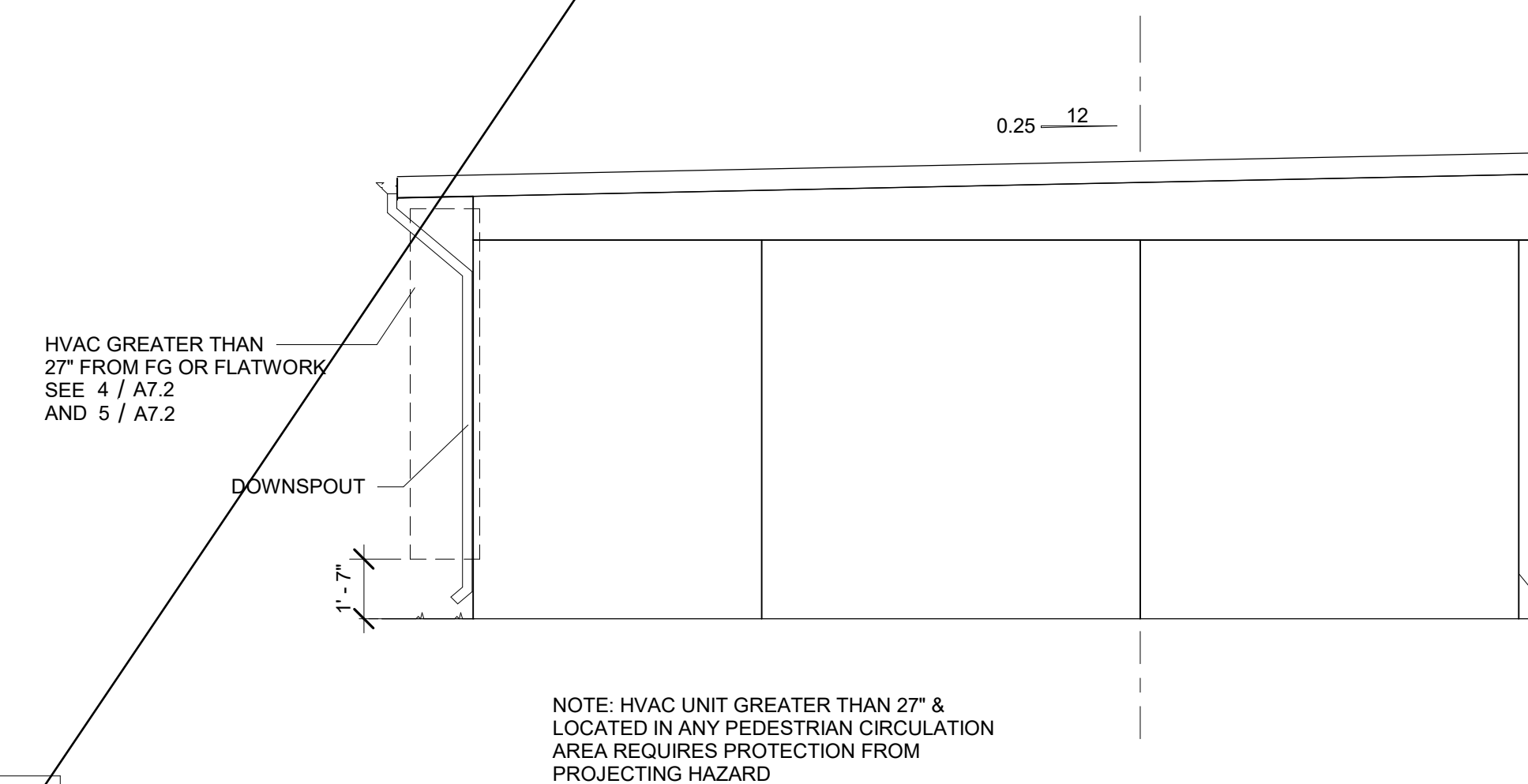
4 1/4" = 1'-0"
Right Elevation (Mono w/ Parapet)



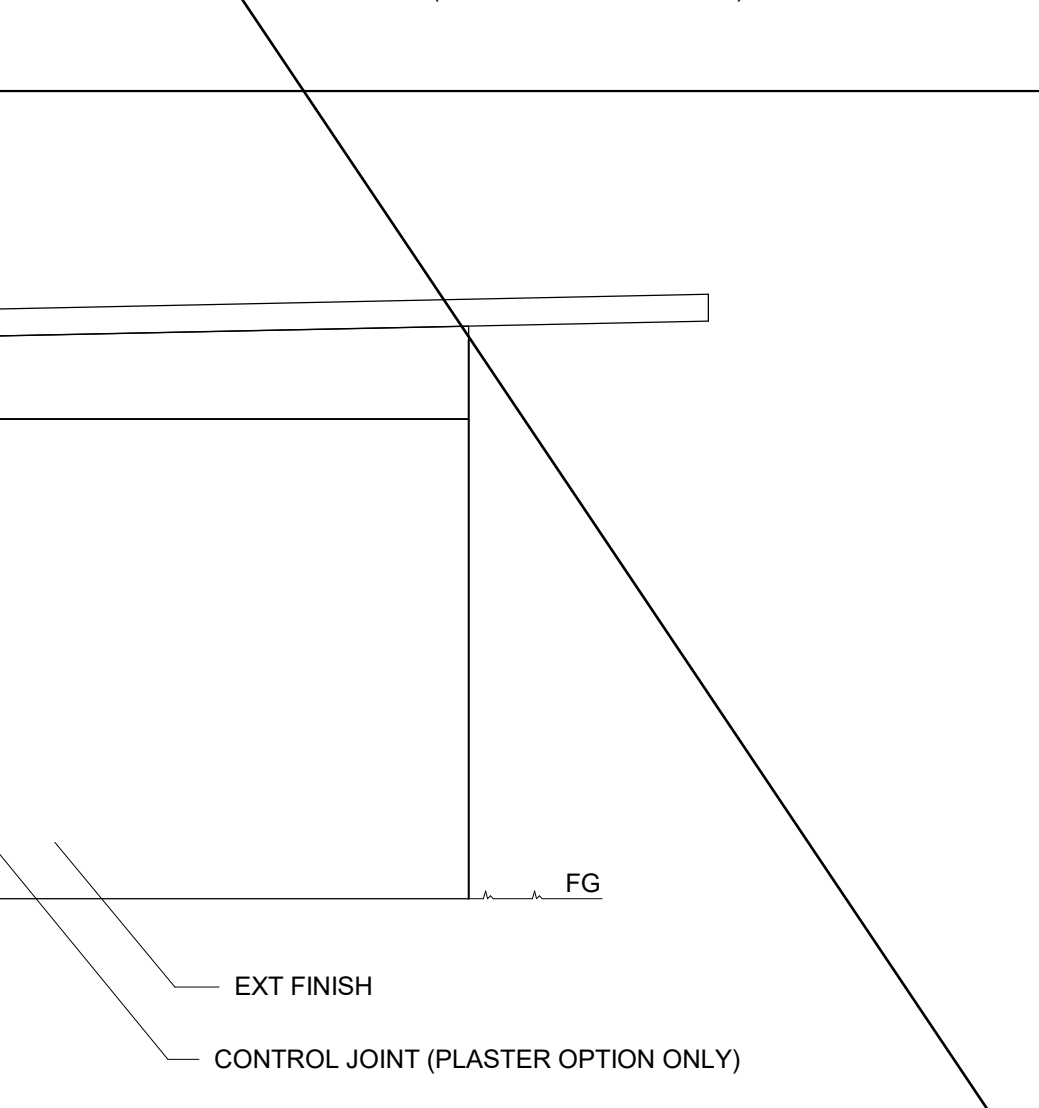
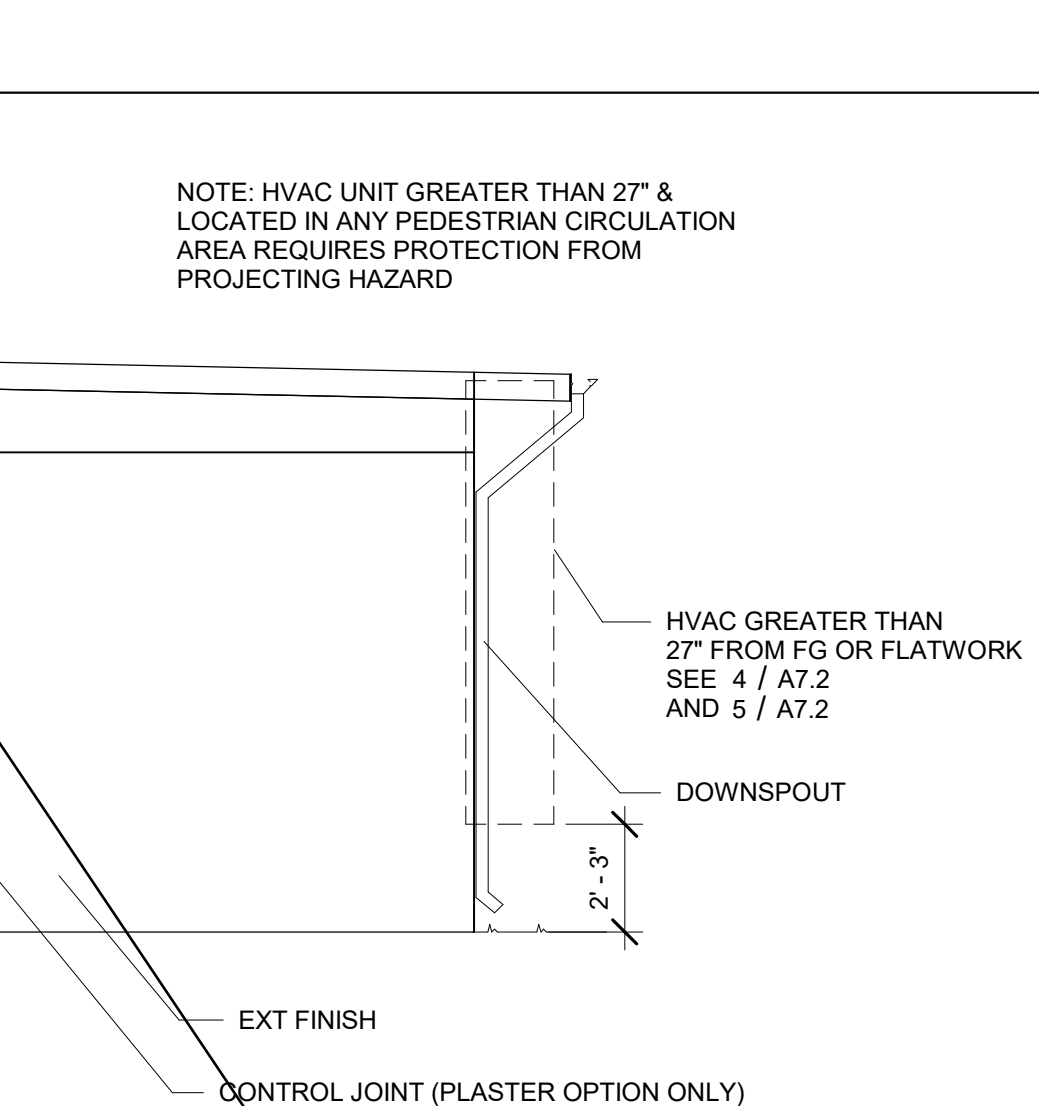
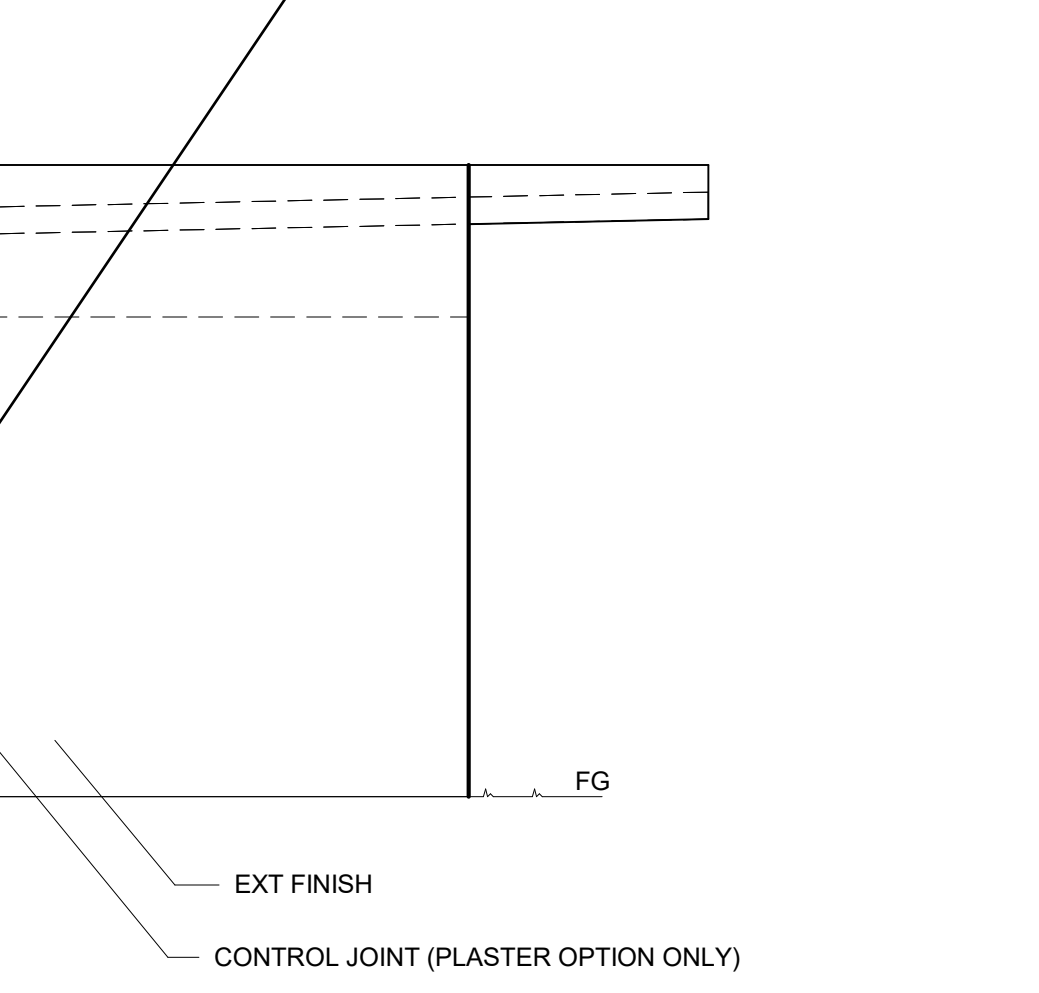
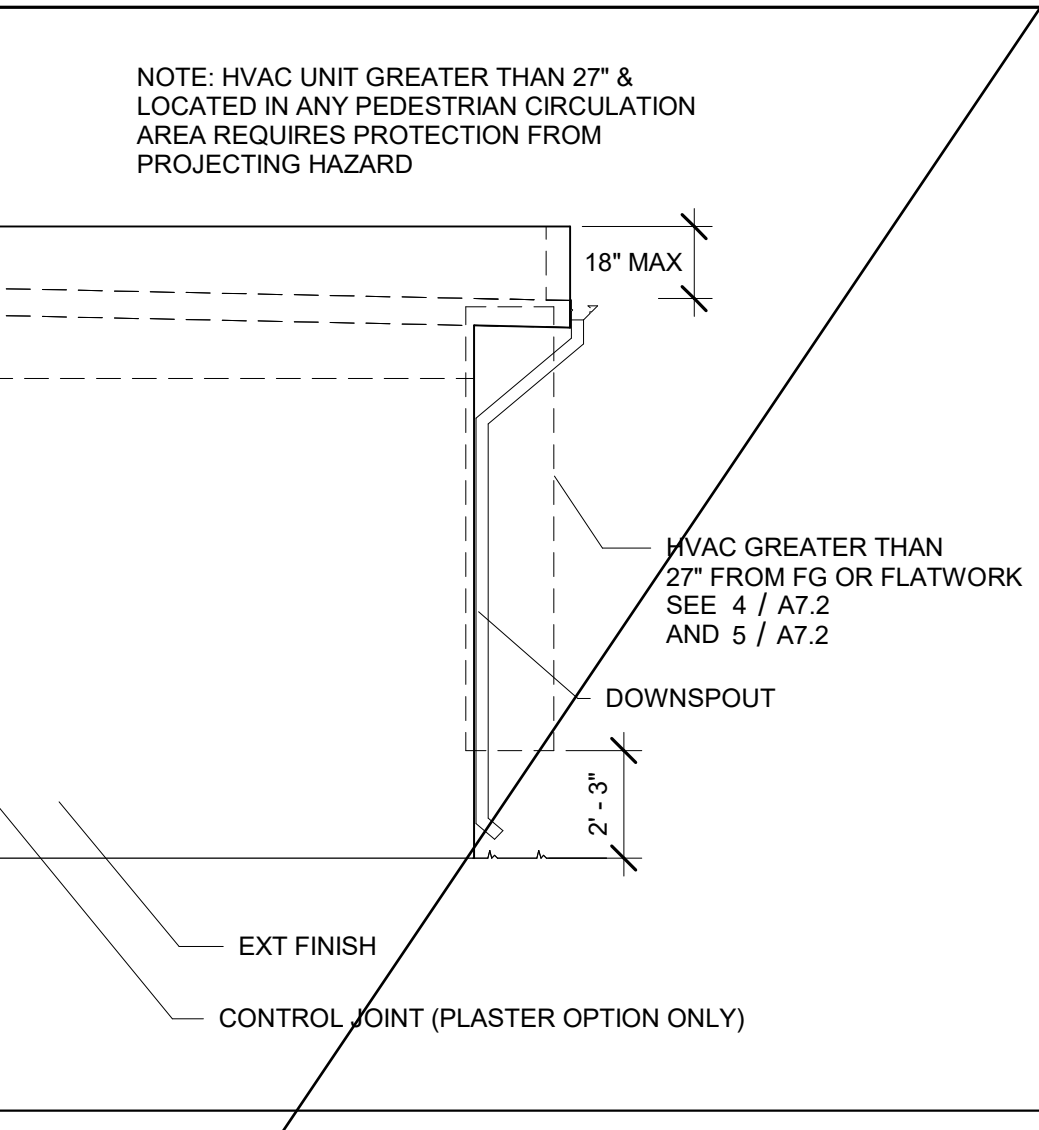
3 1/4" = 1'-0"
Left Elevation (Mono w/ Parapet)



2 1/4" = 1'-0"
Right Elevation (Mono)



1 1/4" = 1'-0"
Left Elevation (Mono)



PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
DESIGN & CONSULTING & PROJECT MGT
11500 W BERNHARD COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FLORES
03/31/24
PC 12345
STATE OF CALIFORNIA
05/24/23
RST#A22088

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Class Leasing
1320 W. Oleander Ave, Perris CA 92571-7408
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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule		
#	Description	Date

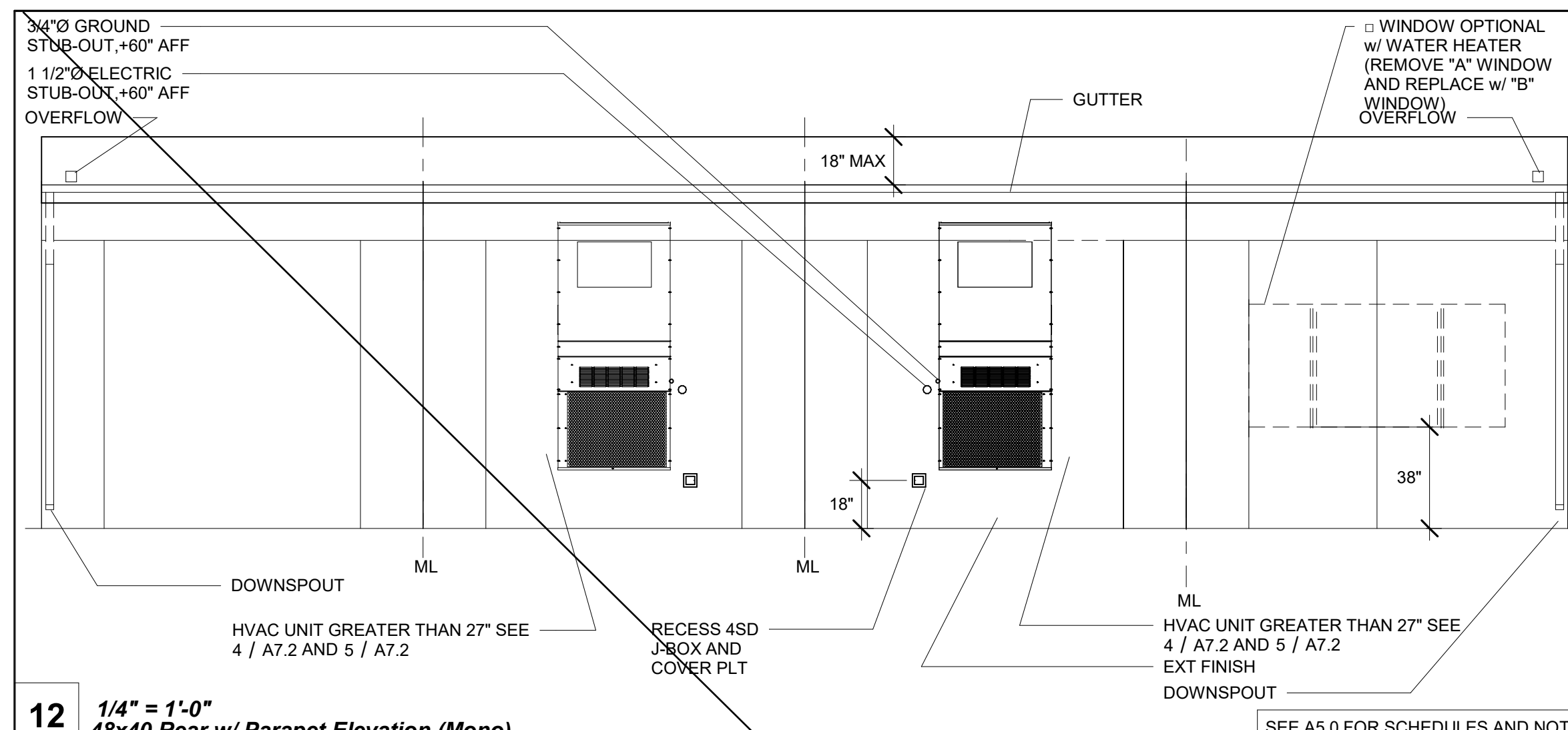
PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
**PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'**

SHEET TITLE
**SIDEWALL
ELEVATION**

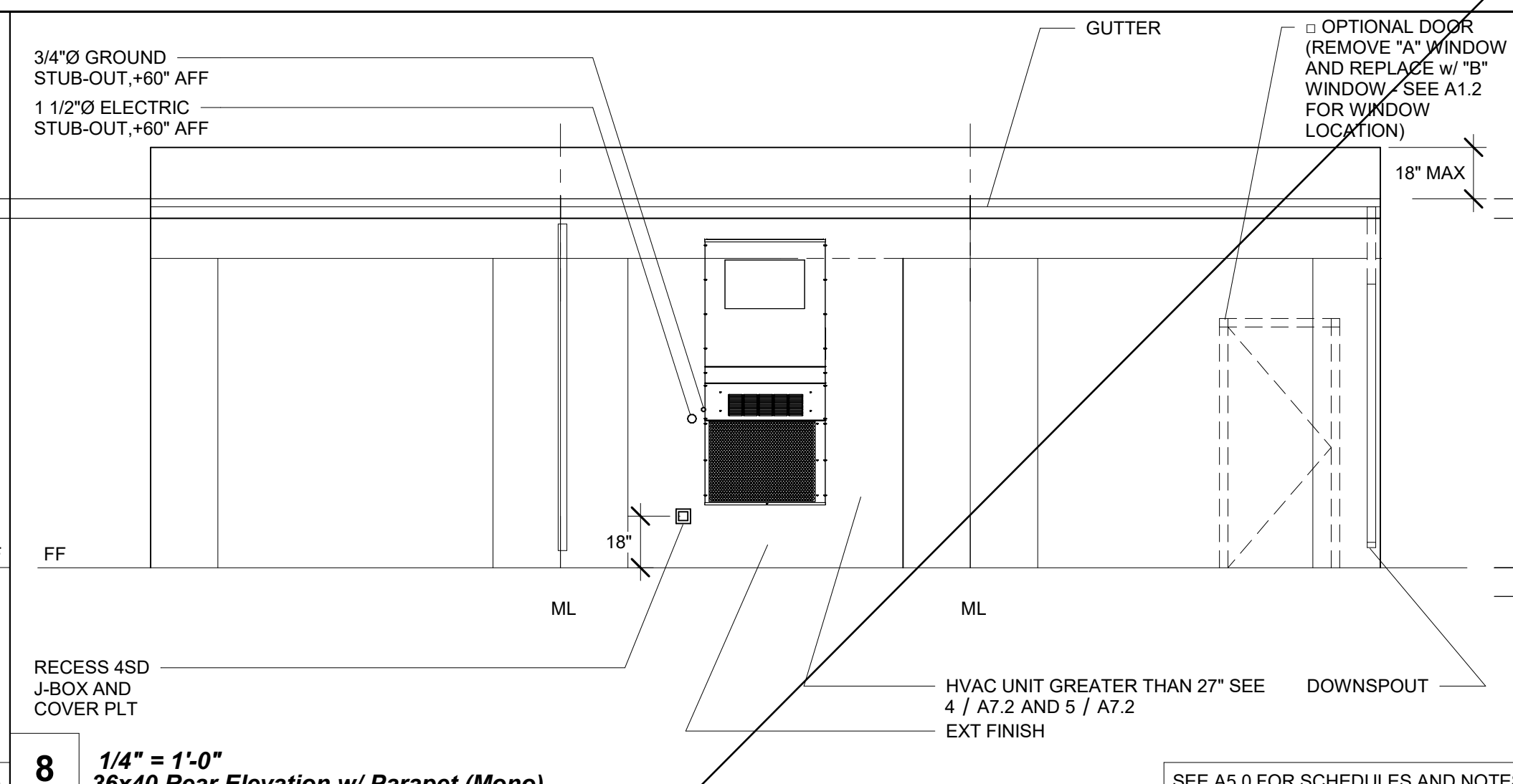
PROJECT NUMBER	22088
DRAWN BY	rMc/SC
CHECKED BY	RH/RT
DATE	
SHEET NO.	A5.0
SHEET OF	

C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CESAR24D63.rvt 6/15/2021 11:51:35 PM



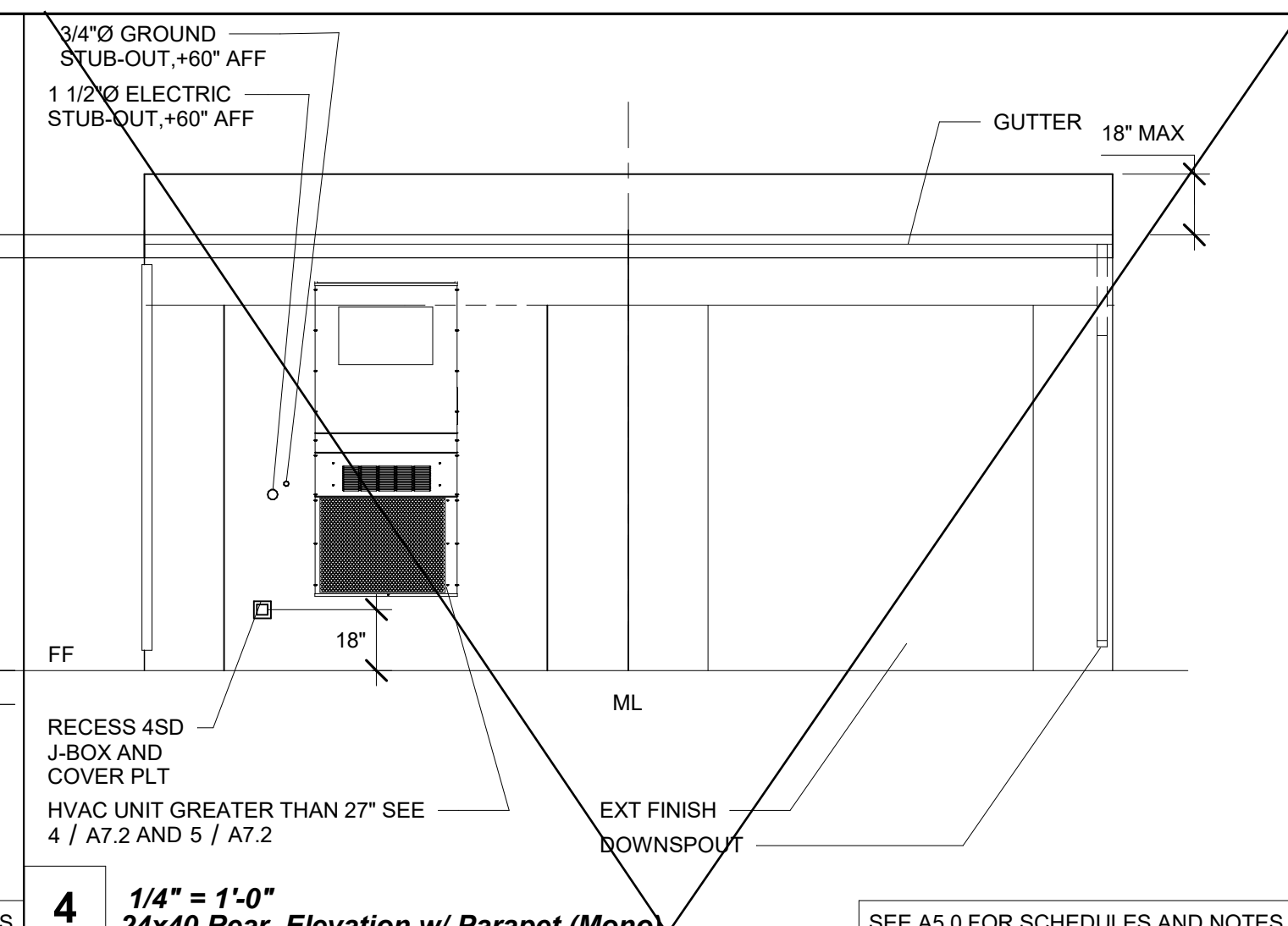
12 1/4" = 1'-0"
48x40 Rear w/ Parapet Elevation (Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



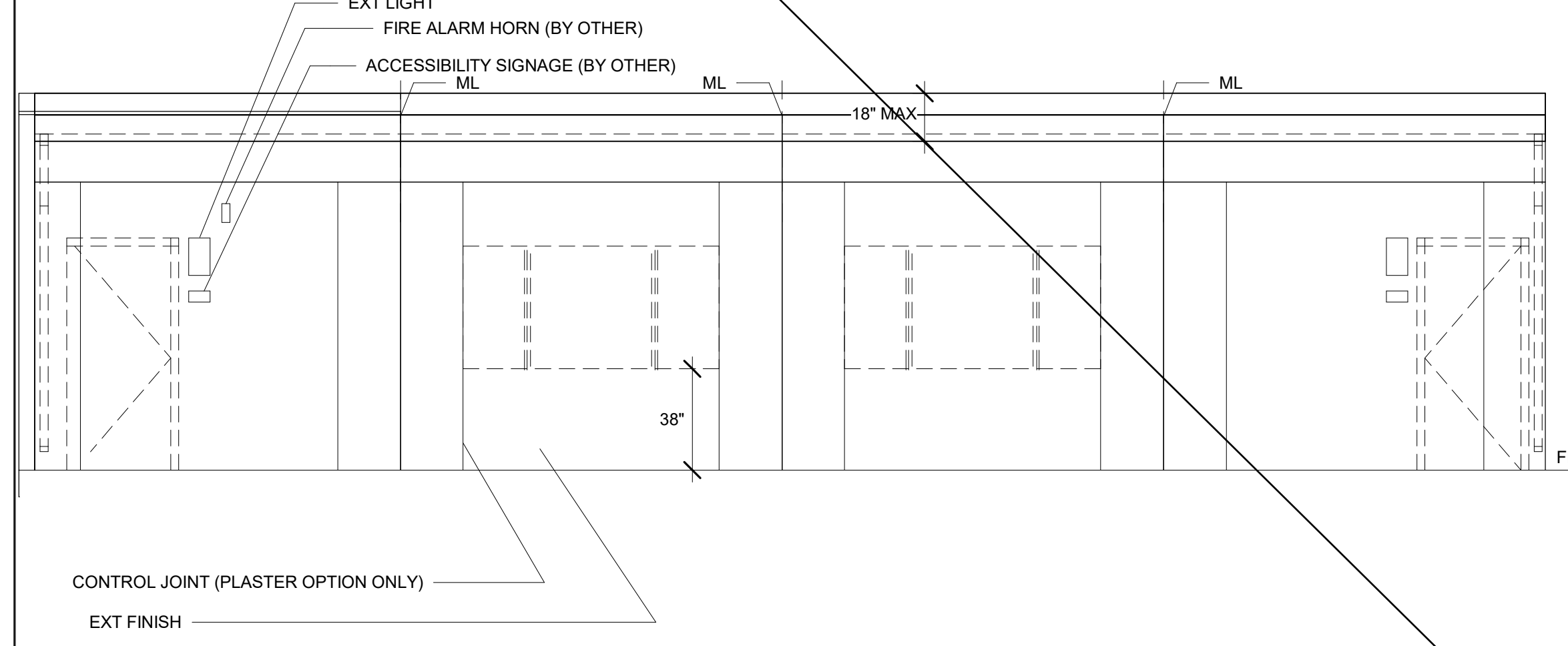
8 1/4" = 1'-0"
36x40 Rear Elevation w/ Parapet (Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



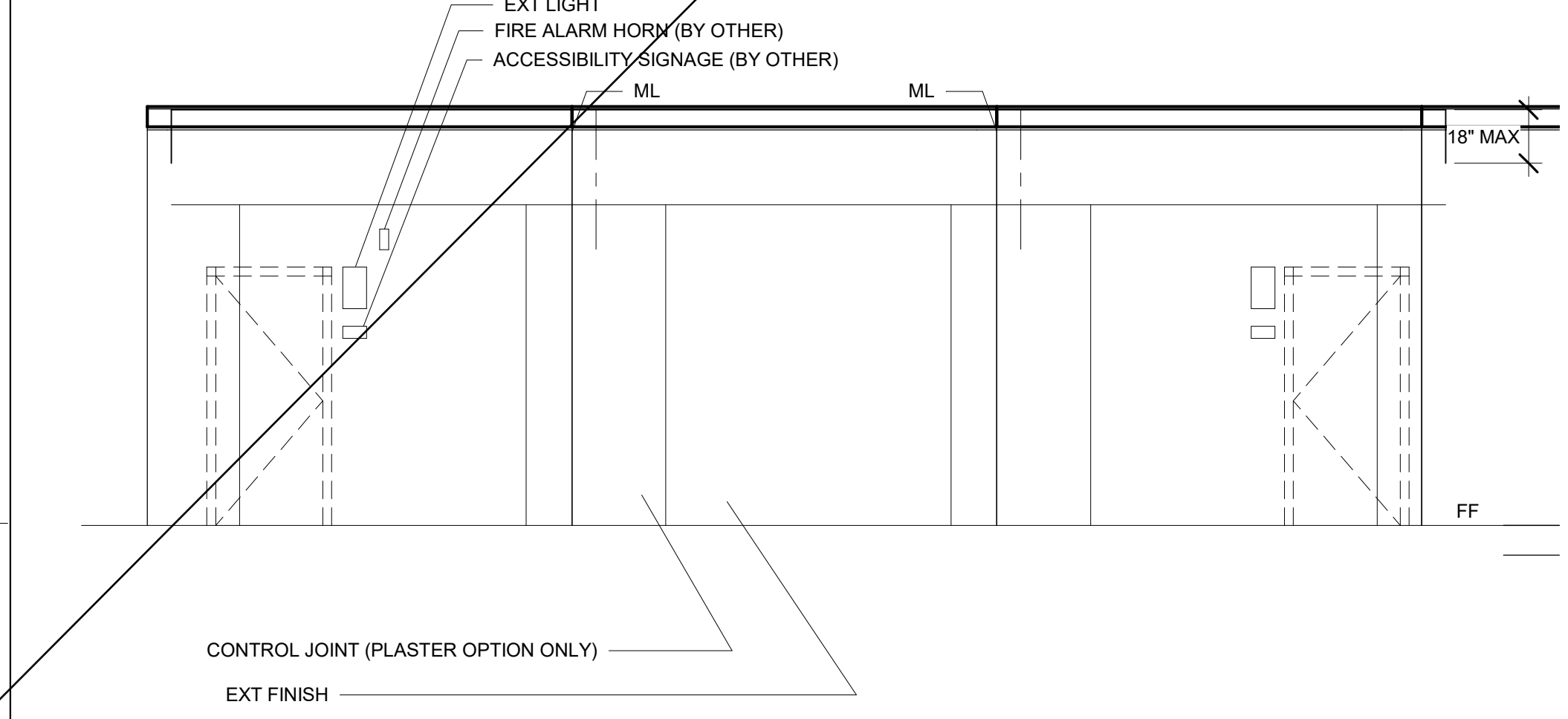
4 1/4" = 1'-0"
24x40 Rear Elevation w/ Parapet (Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



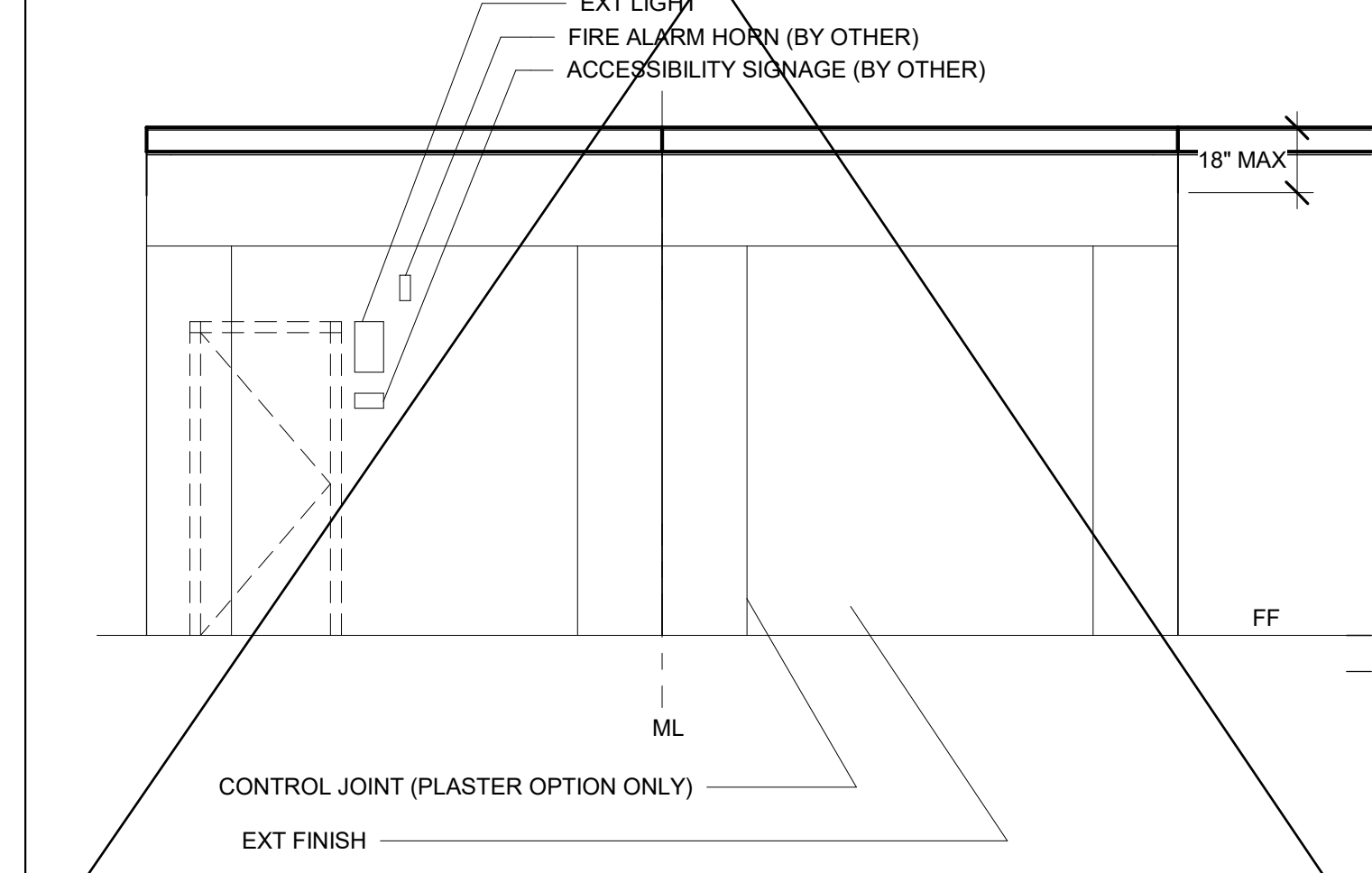
11 1/4" = 1'-0"
48x40 Front w/ Parapet Elevation (Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



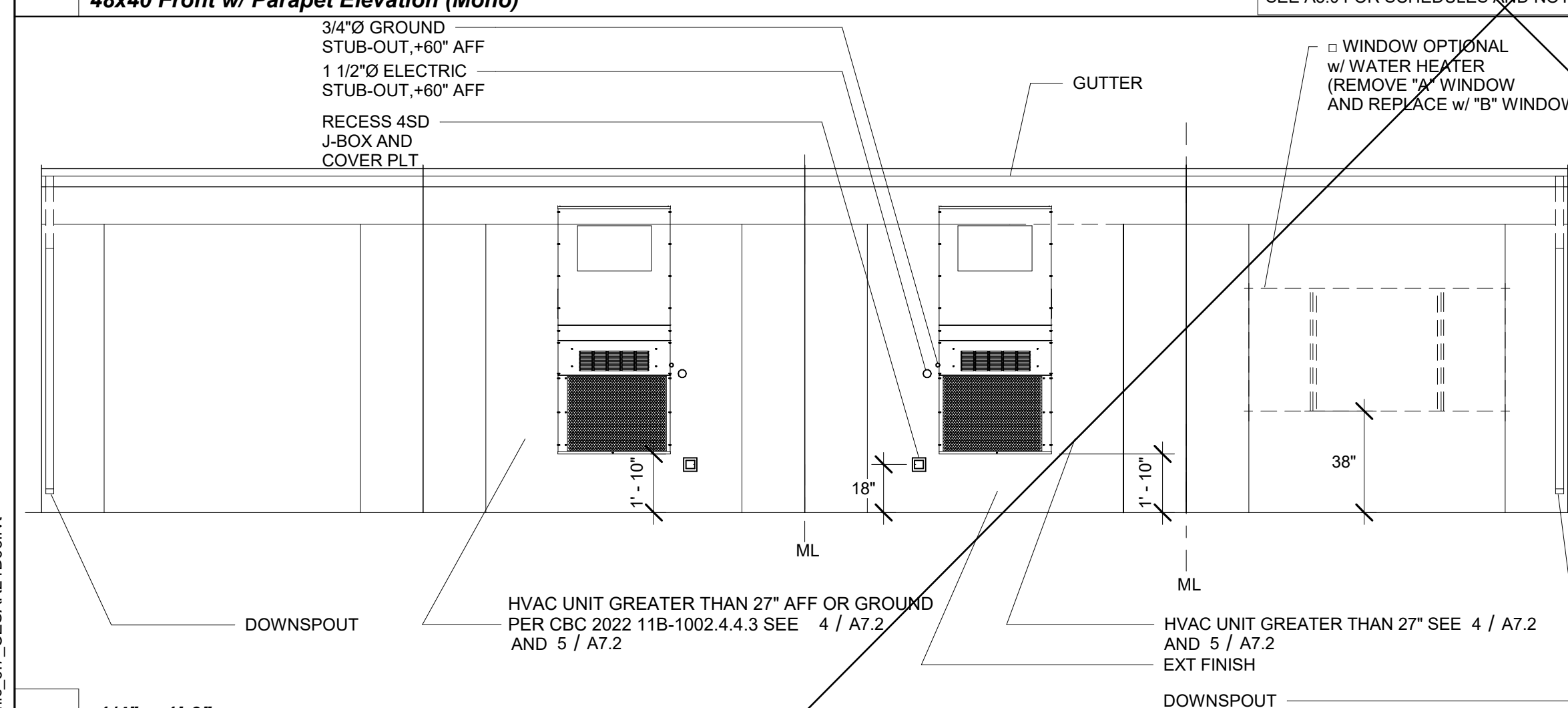
7 1/4" = 1'-0"
36x40 Front Elevation w/ Parapet (Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



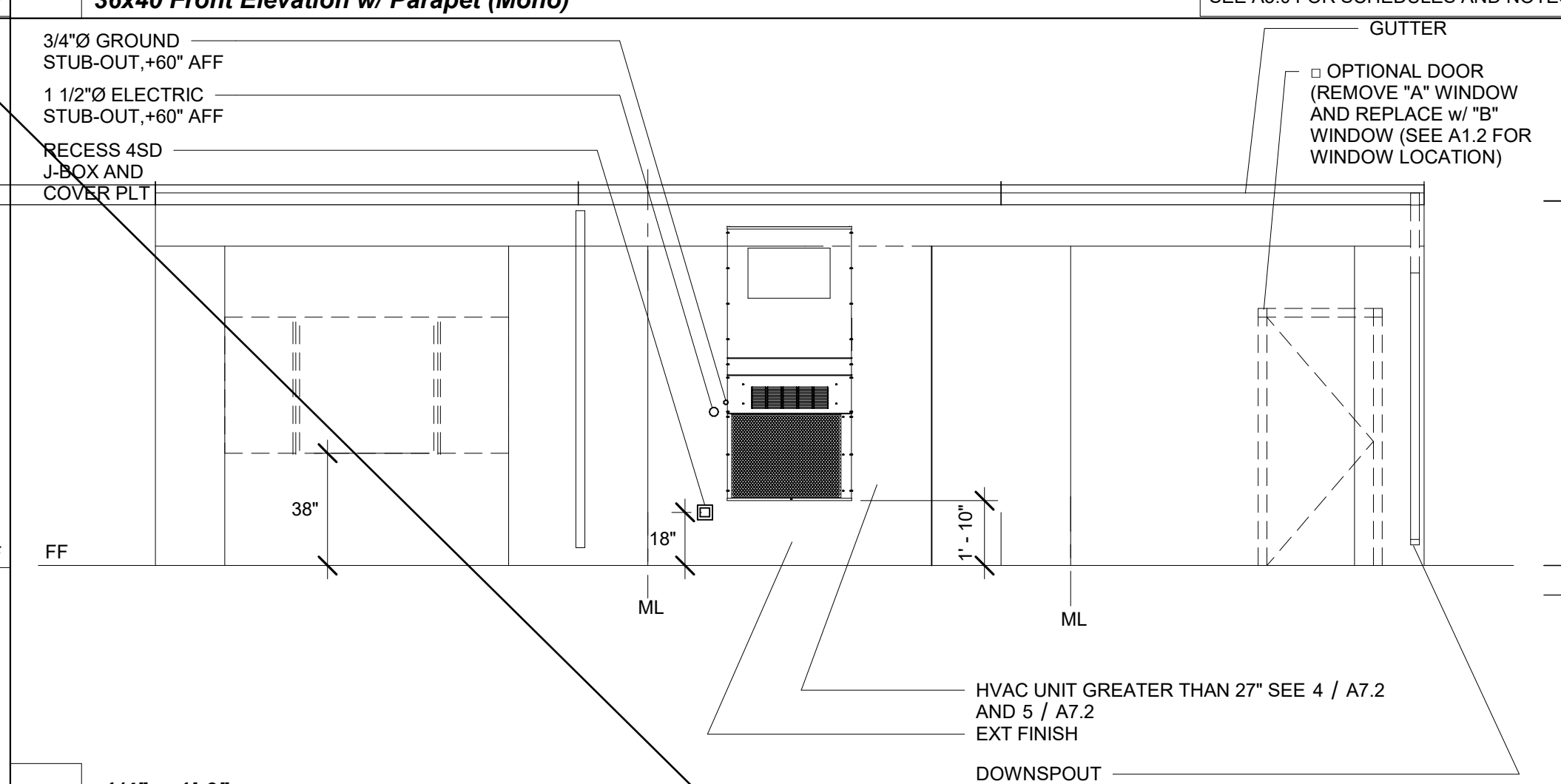
3 1/4" = 1'-0"
24x40 Front Elevation w/ Parapet (Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



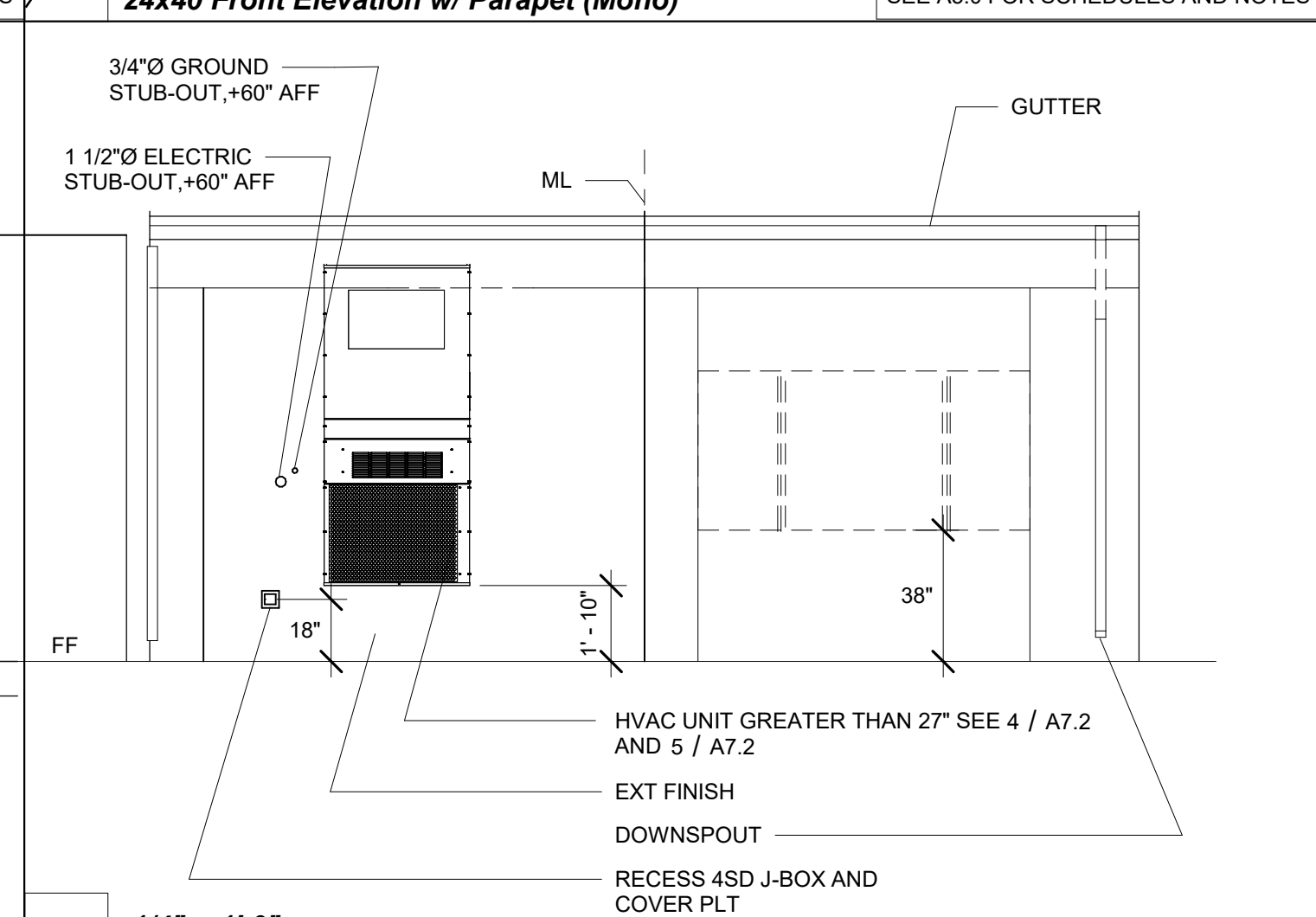
10 1/4" = 1'-0"
48x40 Rear Elevation (Dual/Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



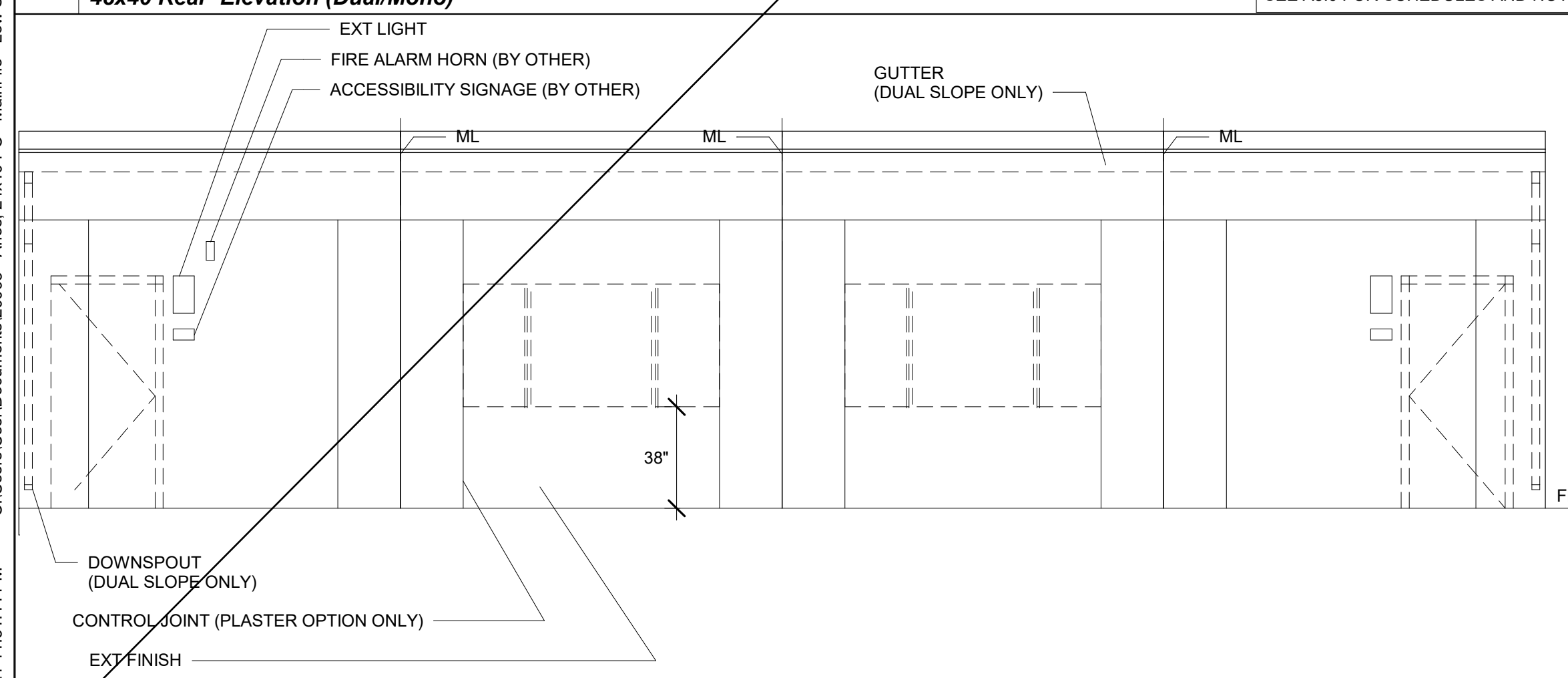
6 1/4" = 1'-0"
36x40 Rear Elevation (Dual/Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



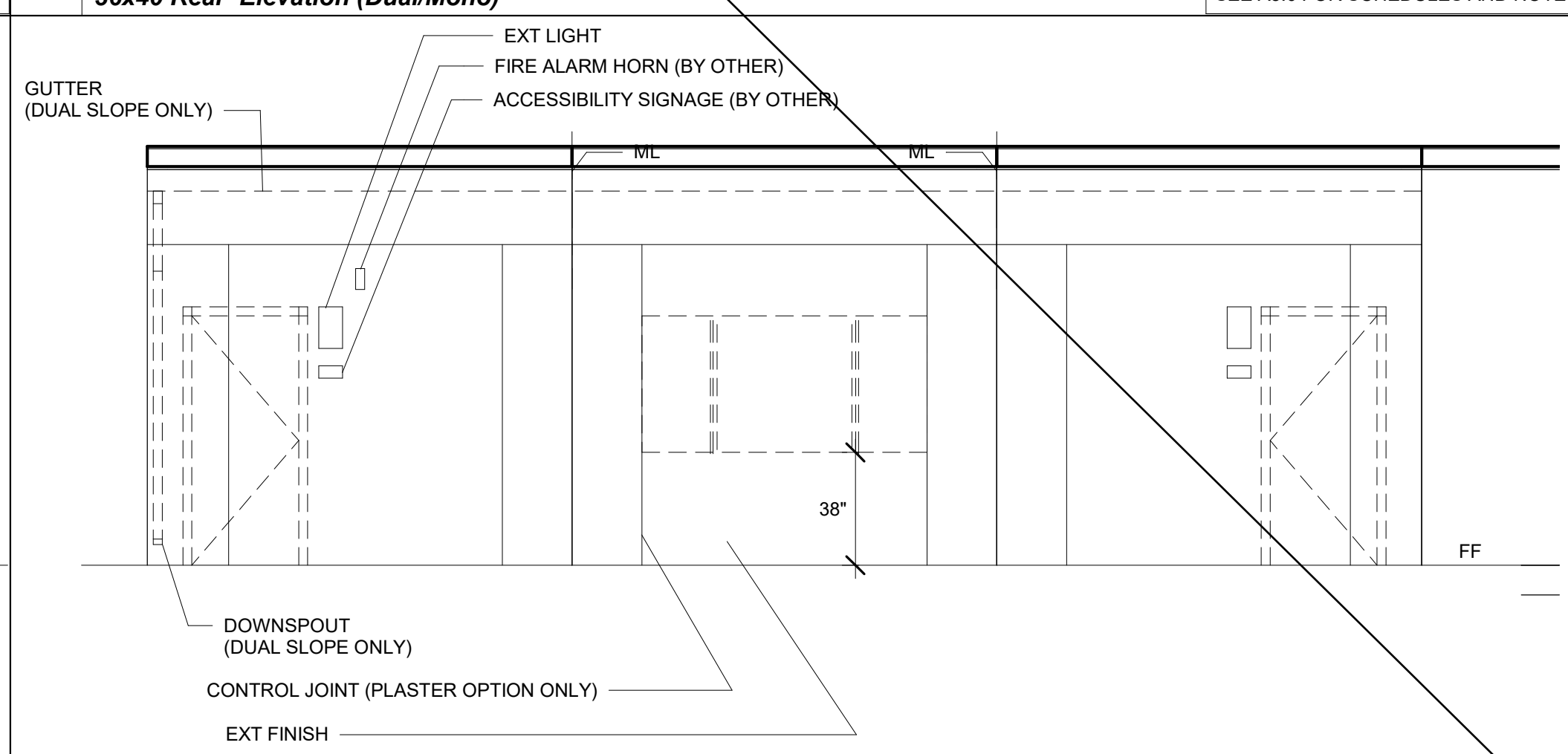
2 1/4" = 1'-0"
24x40 Rear Elevation (Dual/Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



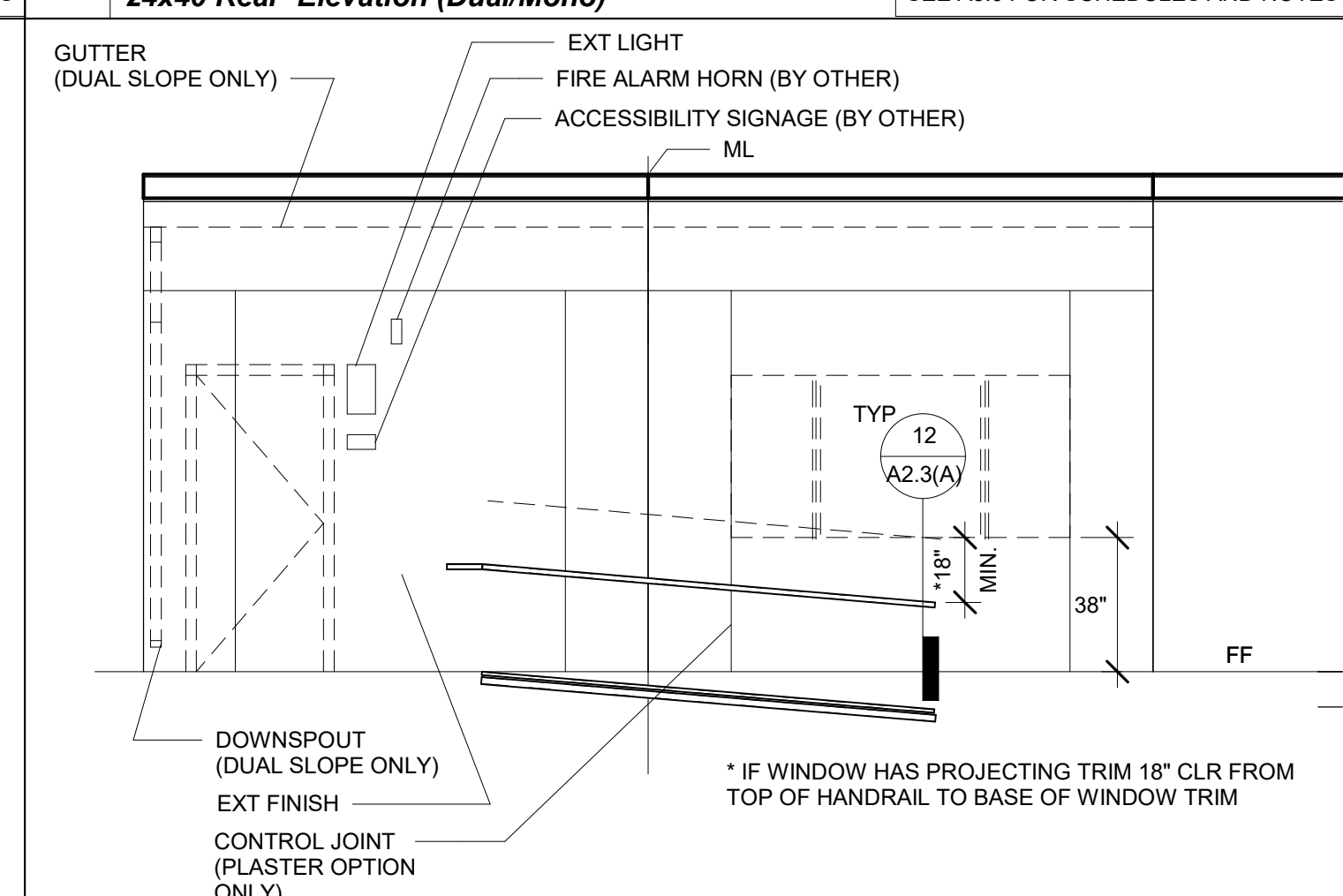
9 1/4" = 1'-0"
48x40 Front Elevation (Dual/Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



5 1/4" = 1'-0"
36x40 Front Elevation (Dual/Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



1 1/4" = 1'-0"
24x40 Front Elevation (Dual/Mono)

SEE A5.0 FOR SCHEDULES AND NOTES

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
DESIGN & CONSULTING & PROJECT MGT
11500 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FLORES
03/31/24
PC 12345
STATE OF CALIFORNIA
05/24/23
RST#22088

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CLIENT

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1320 W. Oleander Ave. Perris CA 92571-7408
VOICE (951) 943-1908 Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
**PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'**

SHEET TITLE
**ENDWALL
ELEVATIONS**

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

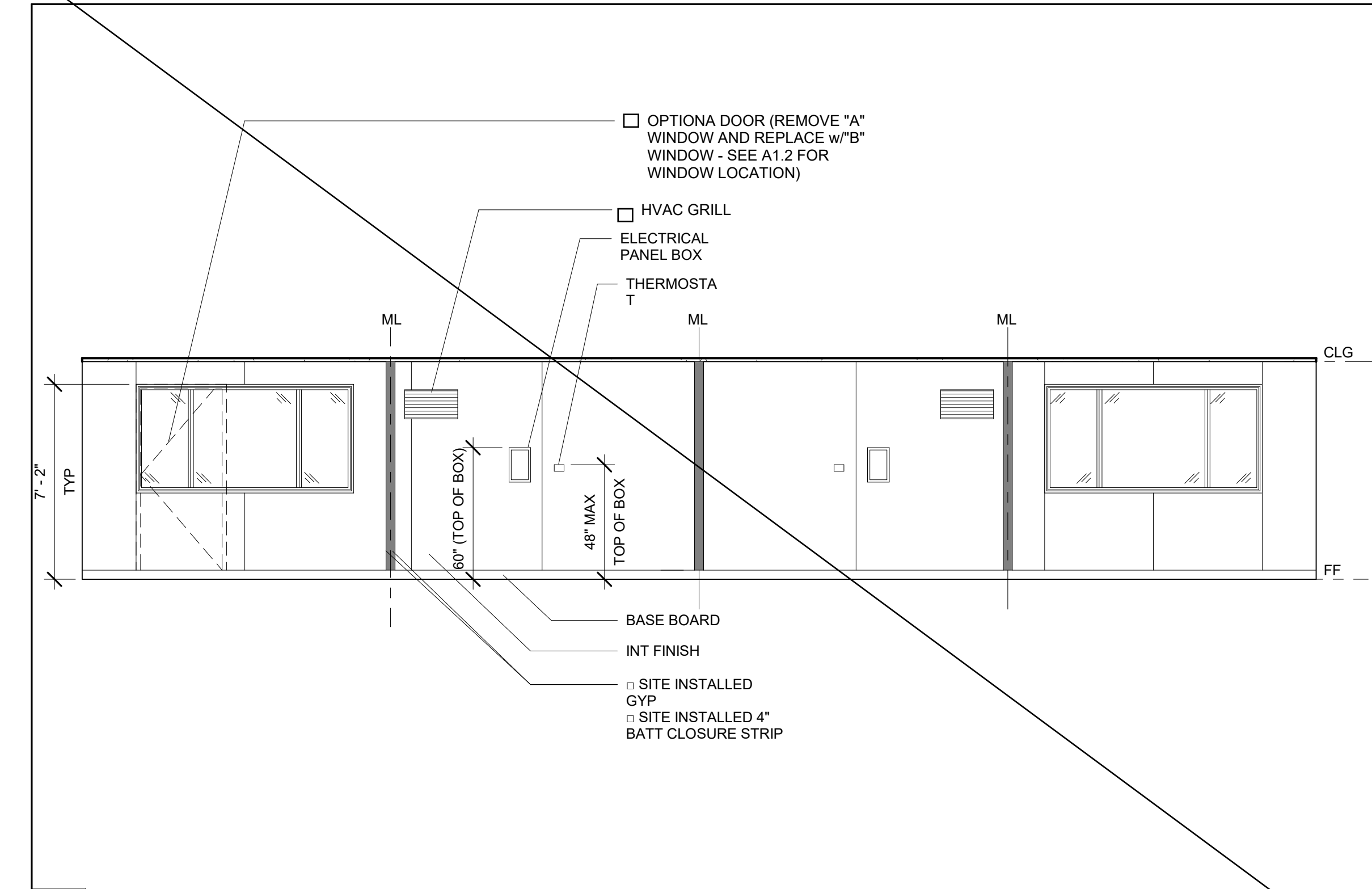
DATE

SHEET NO.
A5.1

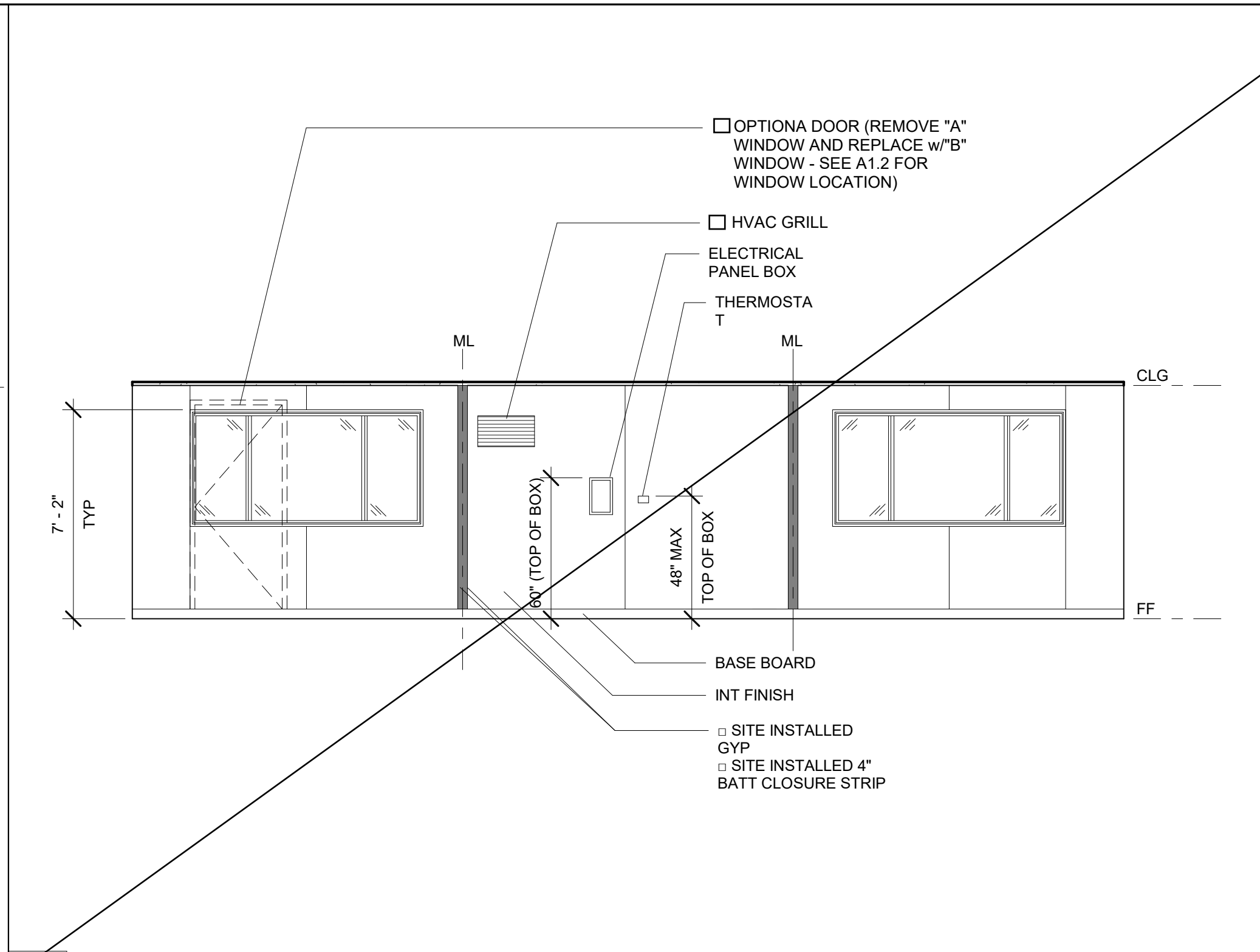
SHEET OF

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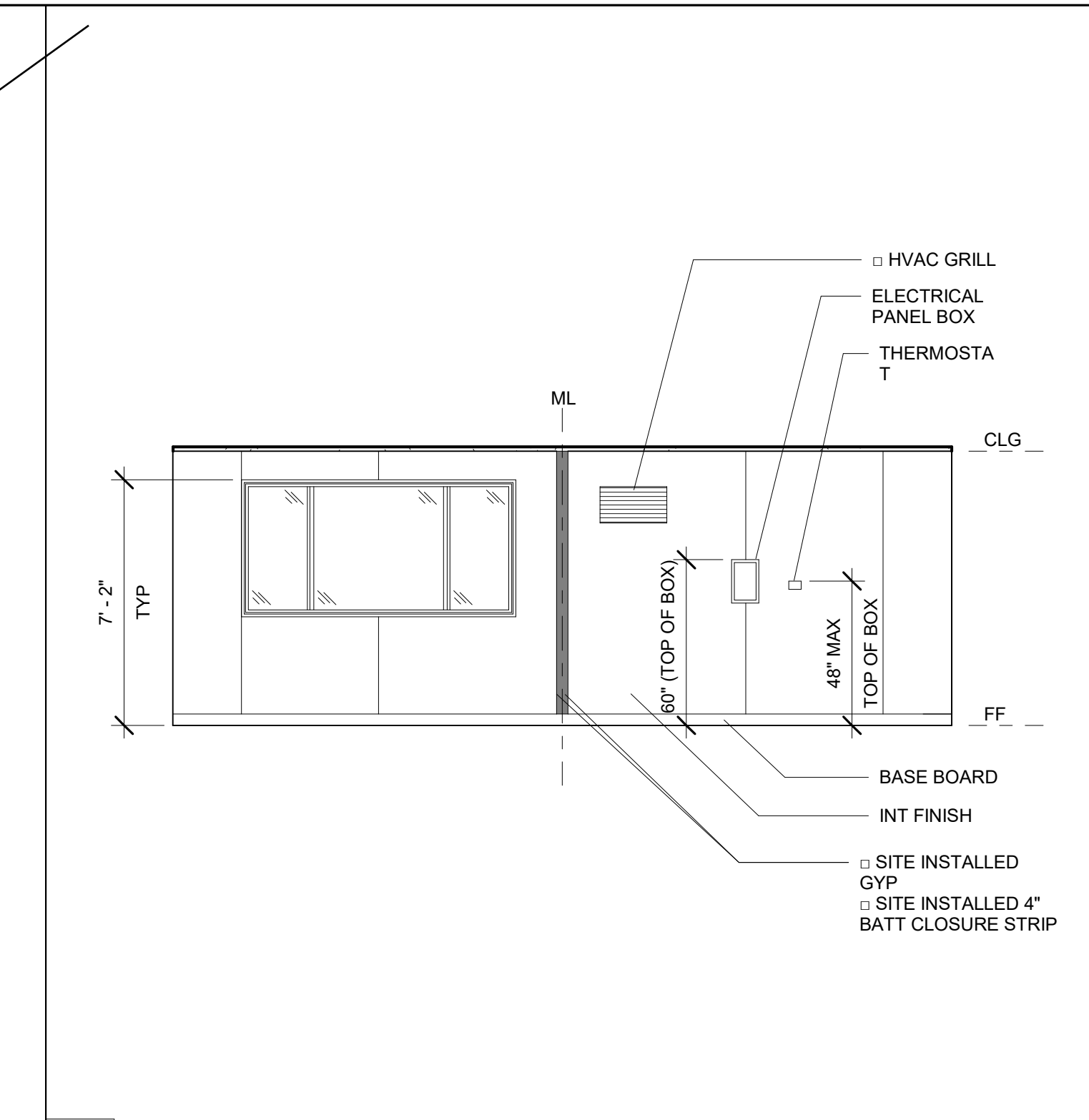
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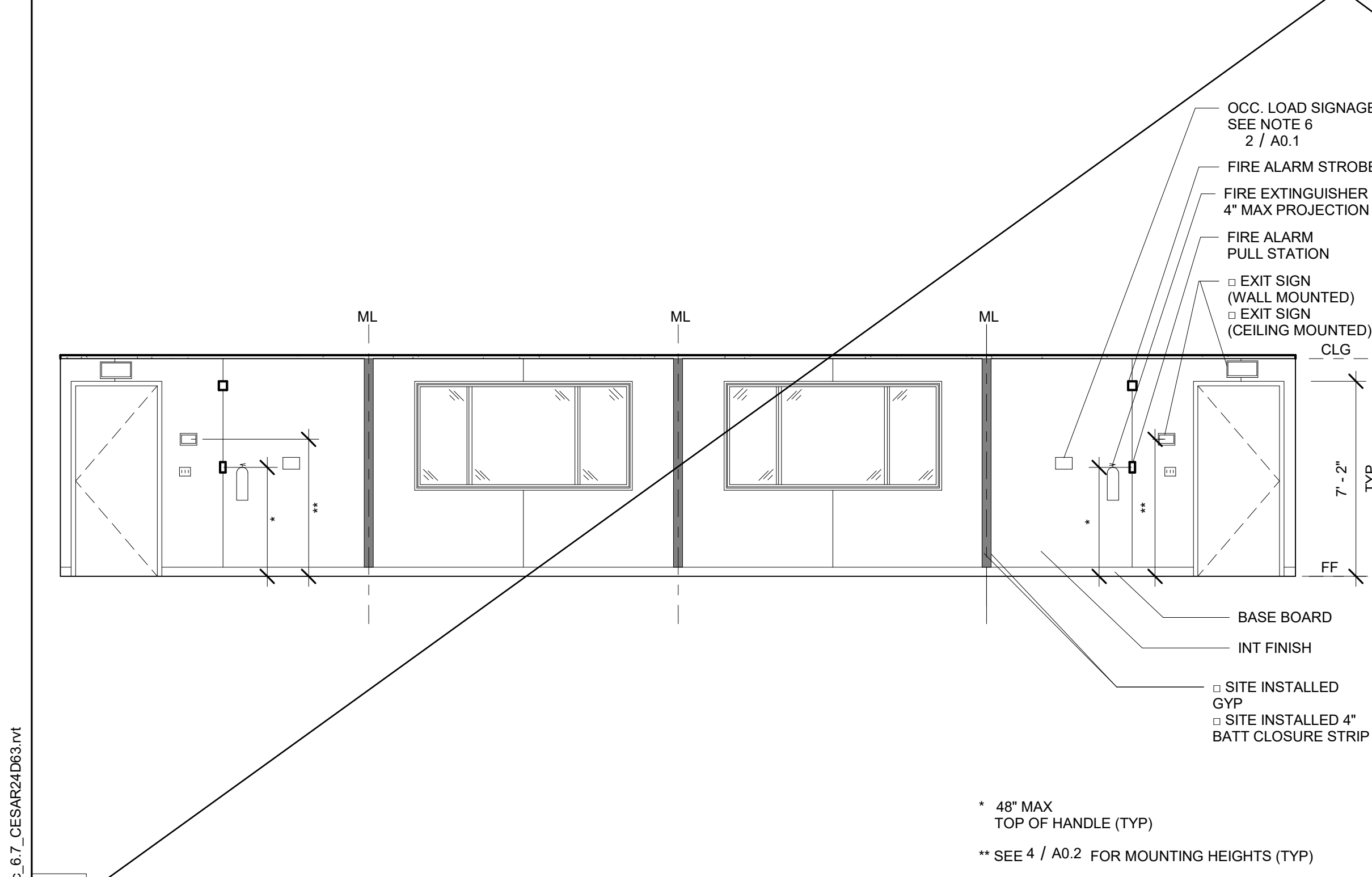
7 1/4" = 1'-0"
48x40 Rear Interior Elevation



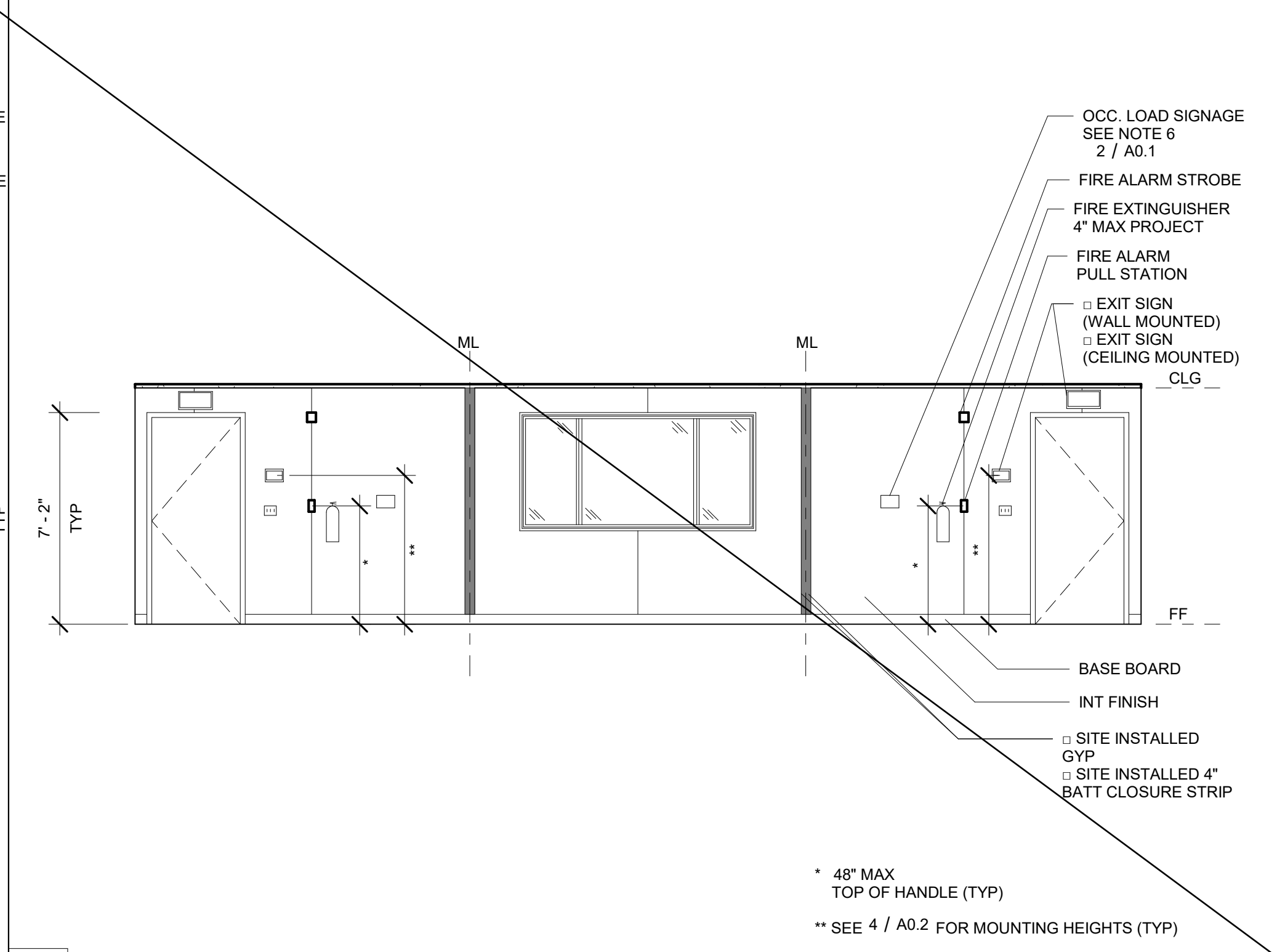
6 1/4" = 1'-0"
36x40 Rear Interior Elevation



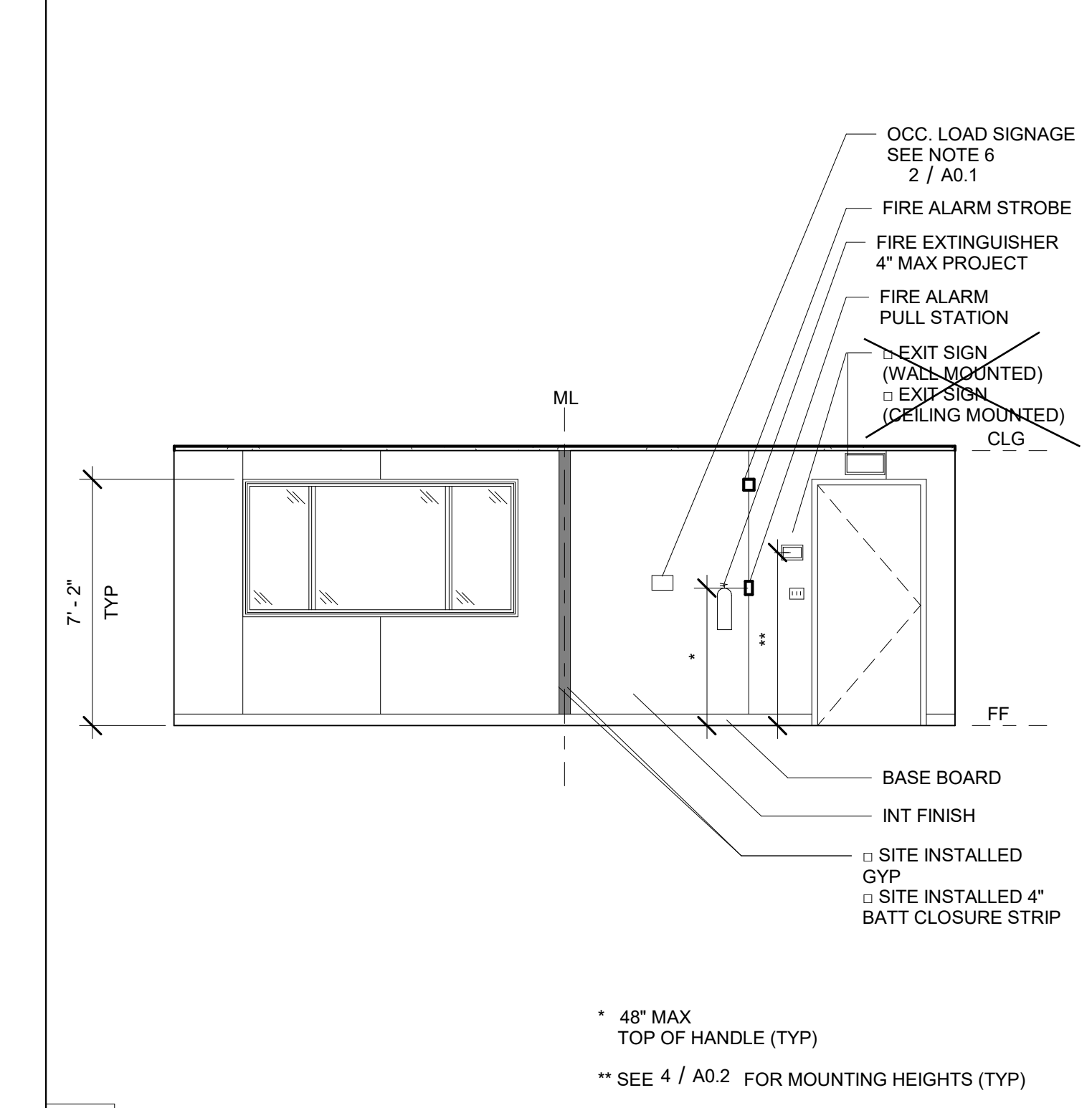
4 1/4" = 1'-0"
24x40 Rear Interior Elevation



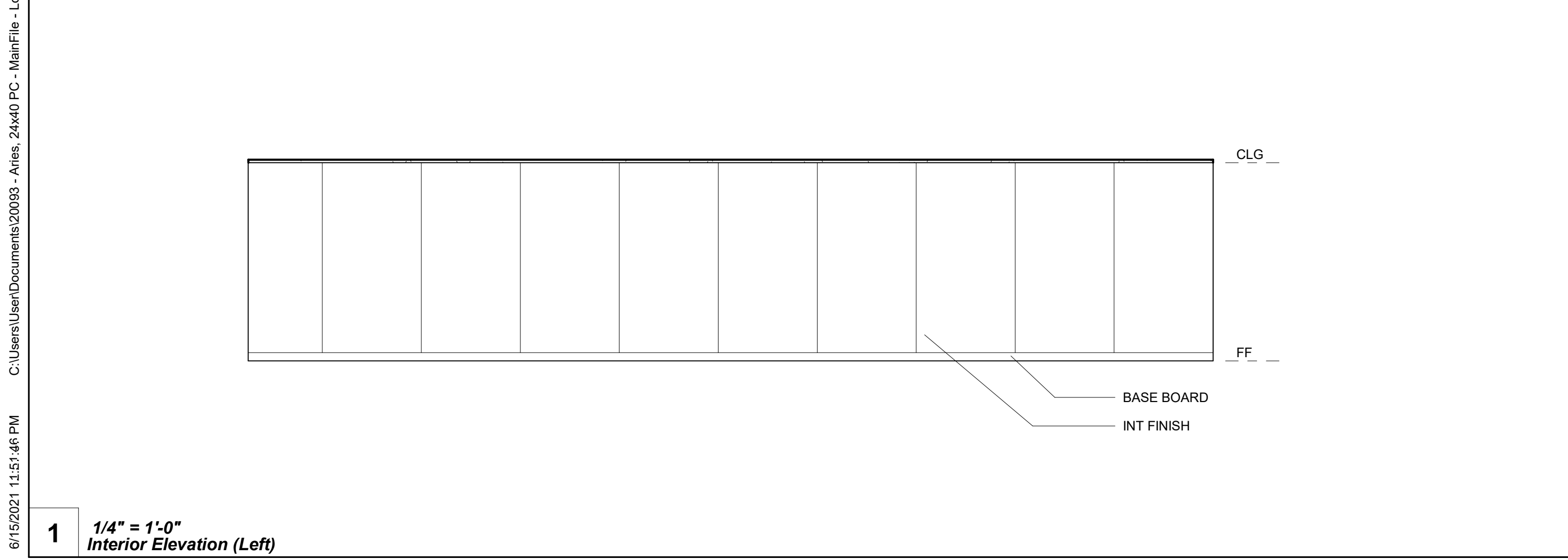
8 1/4" = 1'-0"
48x40 Front Interior Elevation



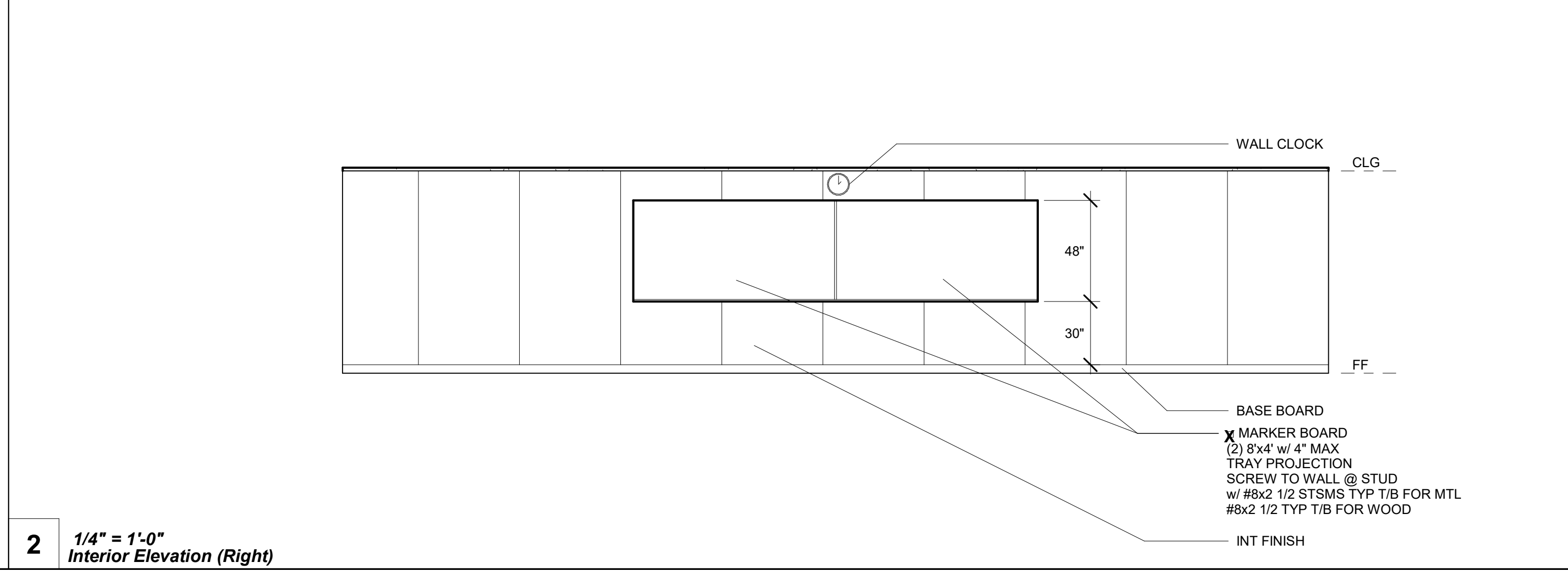
5 1/4" = 1'-0"
36x40 Front Interior Elevation



3 1/4" = 1'-0"
24x40 Front Interior Elevation



1 1/4" = 1'-0"
Interior Elevation (Left)



2 1/4" = 1'-0"
Interior Elevation (Right)

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
DESIGN & CONSULTING & PROJECT MGT
11500 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSNTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FRIEDL
03380
03/31/24
CALIFORNIA
STATE OF CALIFORNIA
05/24/23
RST#22088

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CLIENT

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1320 W. Oleander Ave, Perris CA 92571-7408
VOICE (951) 943-1908 Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
INTERIOR ELEVATIONS

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

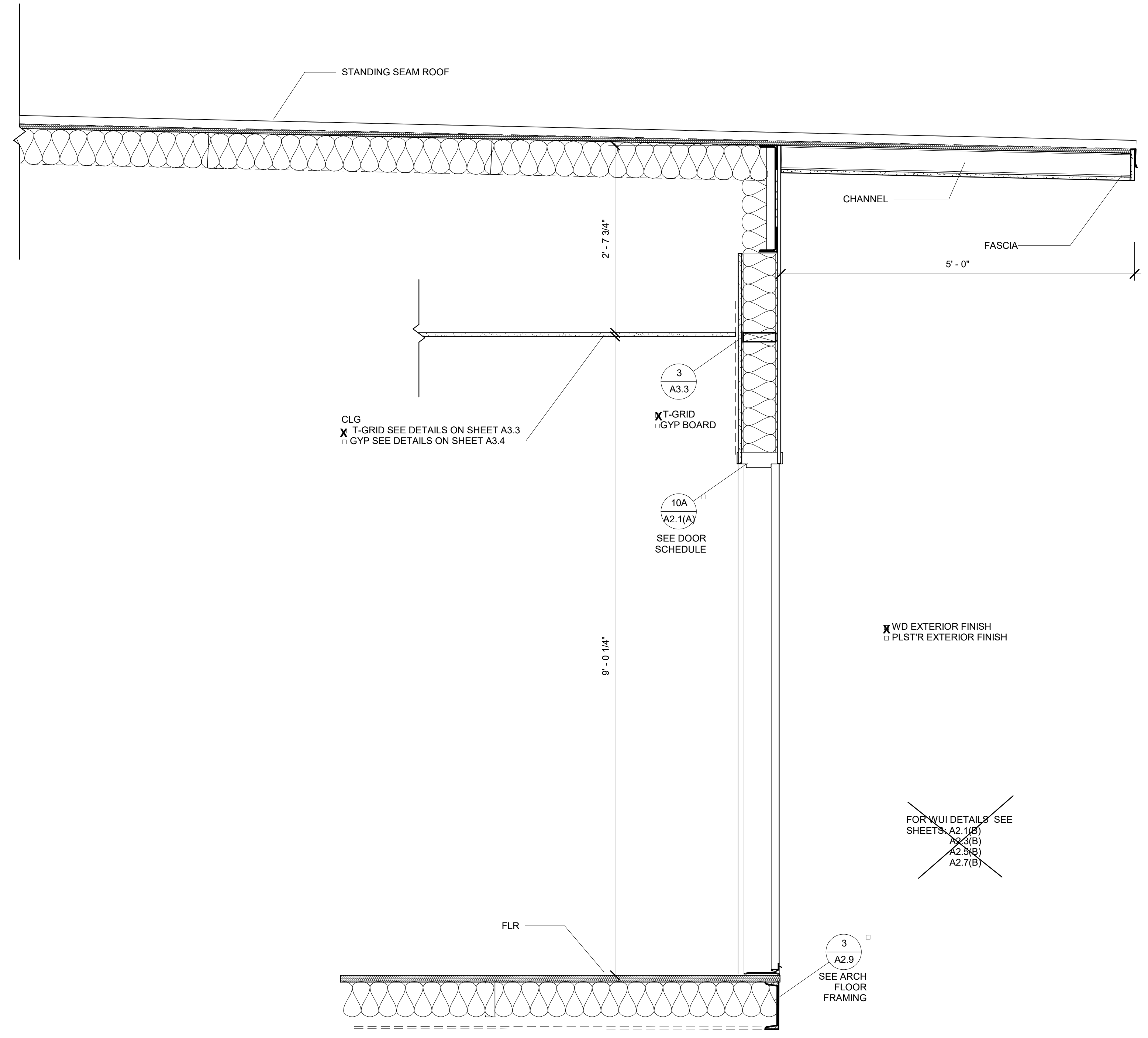
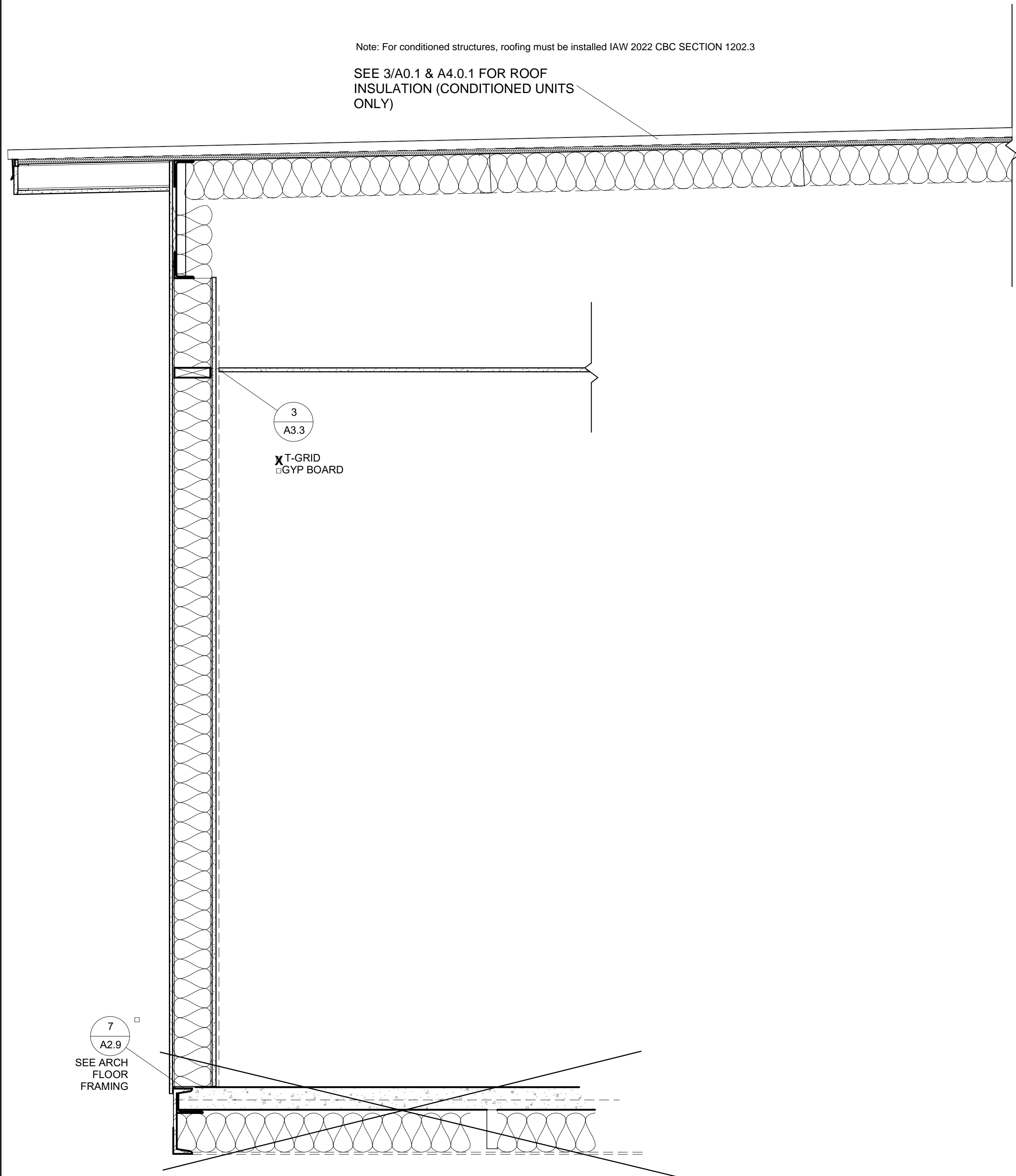
DATE

SHEET NO.
A5.2

SHEET OF

C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CESAR24D63.rvt 6/15/2021 11:51:49 PM

Note: For conditioned structures, roofing must be installed IAW 2022 CBC SECTION 1202.3
 SEE 3/A0.1 & A4.0.1 FOR ROOF INSULATION (CONDITIONED UNITS ONLY)



PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-122805 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 09/28/2023

R&S TAVARES ASSOCIATES
 DESIGN & CONSULTING & PROJECT MGT
 11500 W BERNHARD COURT, SUITE 100
 SAN DIEGO, CA 92127
 WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
 MANNY D. FERRER
 63380
 03/31/24
 PC TURKEY
 STATE OF CALIFORNIA
 05/24/23
 RST#22088

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
 DIV. OF THE STATE ARCHITECT
 APP. 04-121368 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
SECTION - STANDING SEAM (DUAL)

PROJECT NUMBER	22088
DRAWN BY	rMc/SC
CHECKED BY	RH/RT
DATE	
SHEET NO.	A6.0.1
SHEET OF	

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-122805 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 09/28/2023



PROFESSIONAL STAMP

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 VOICE (951) 943-1908 Fax (951) 943-5768

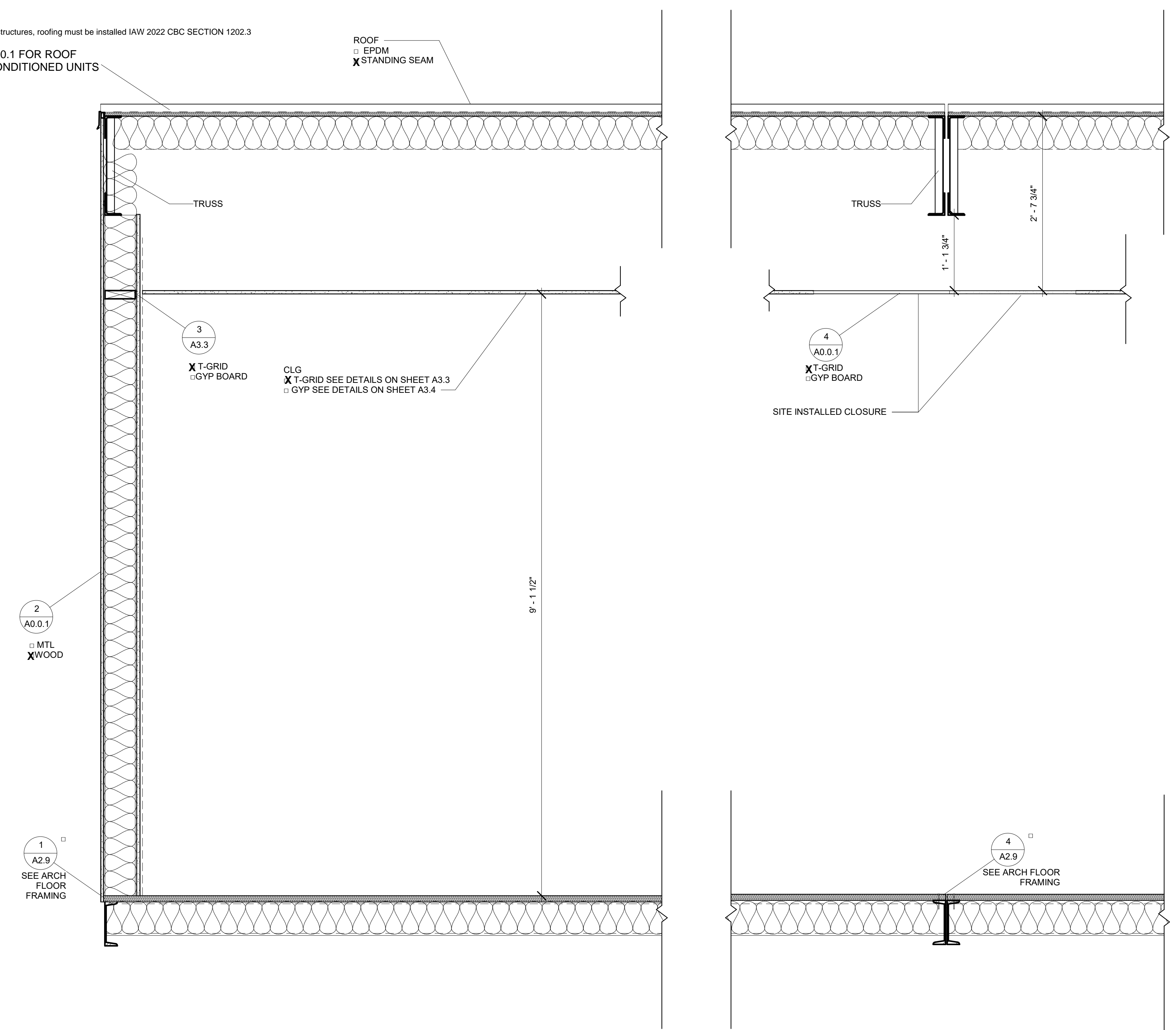
ORIGINAL PC STATE AGENCY APPROVAL

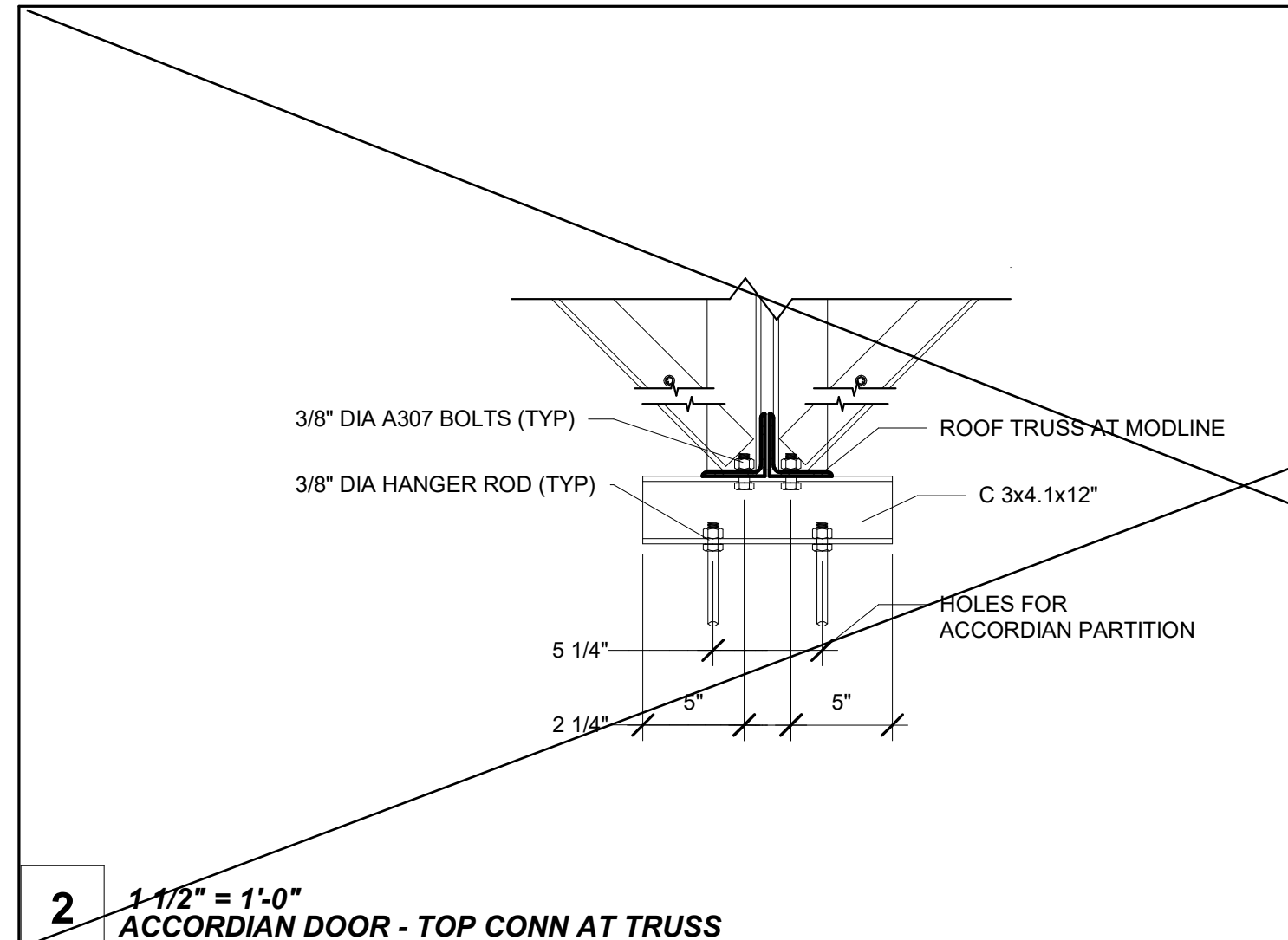
Revision Schedule		
#	Description	Date
PRE-CHECK (PC) DOCUMENT Code: 2022 CBC A separate project application for construction is required		
PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'		

SHEET TITLE
SECTION

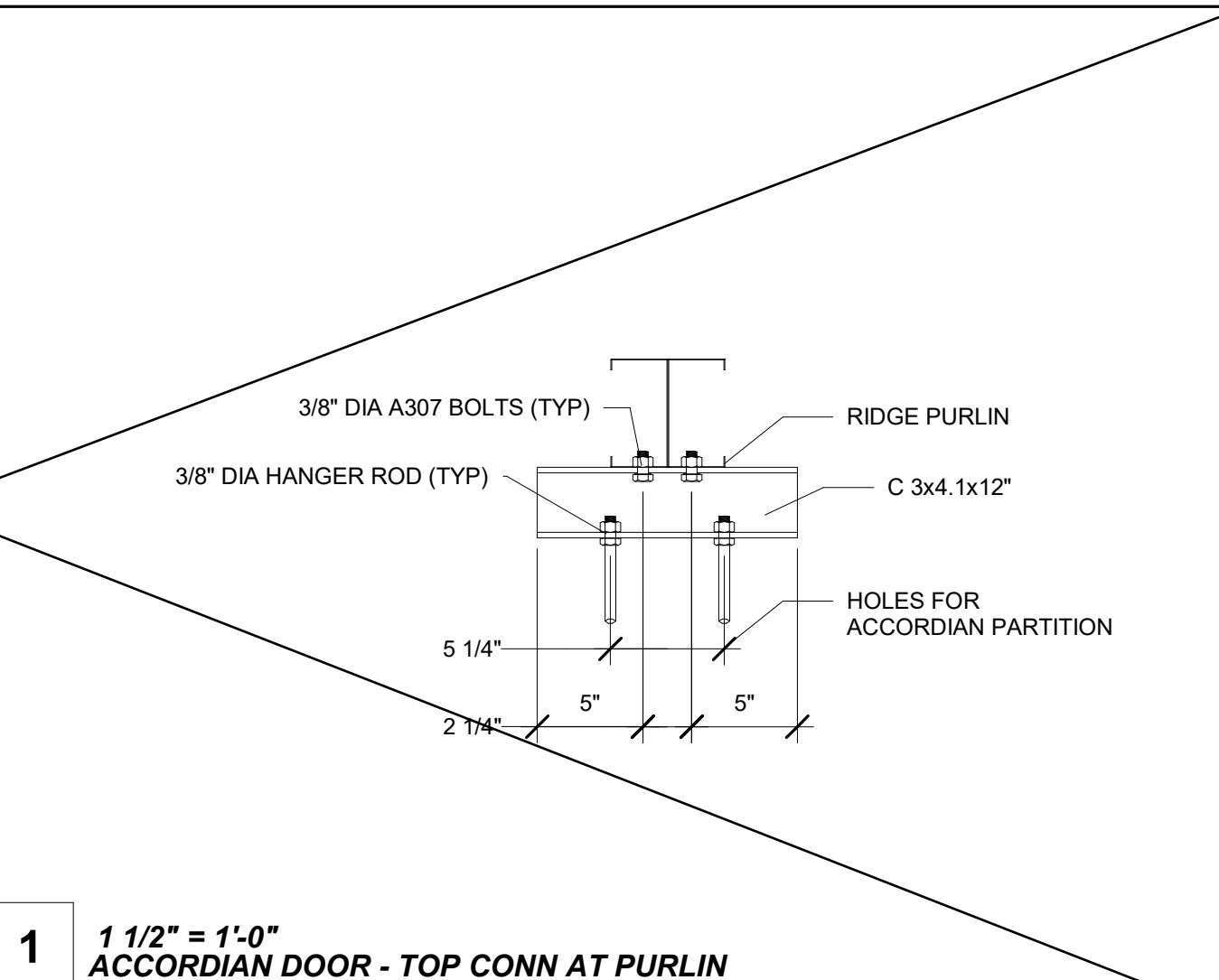
PROJECT NUMBER
22088
 DRAWN BY
rMc/SC
 CHECKED BY
RH/RT
 DATE
 SHEET NO.
A6.2
 SHEET OF

Note: For conditioned structures, roofing must be installed IAW 2022 CBC SECTION 1202.3
 SEE 3/A0.1 & A4.0.1 FOR ROOF INSULATION (CONDITIONED UNITS ONLY)

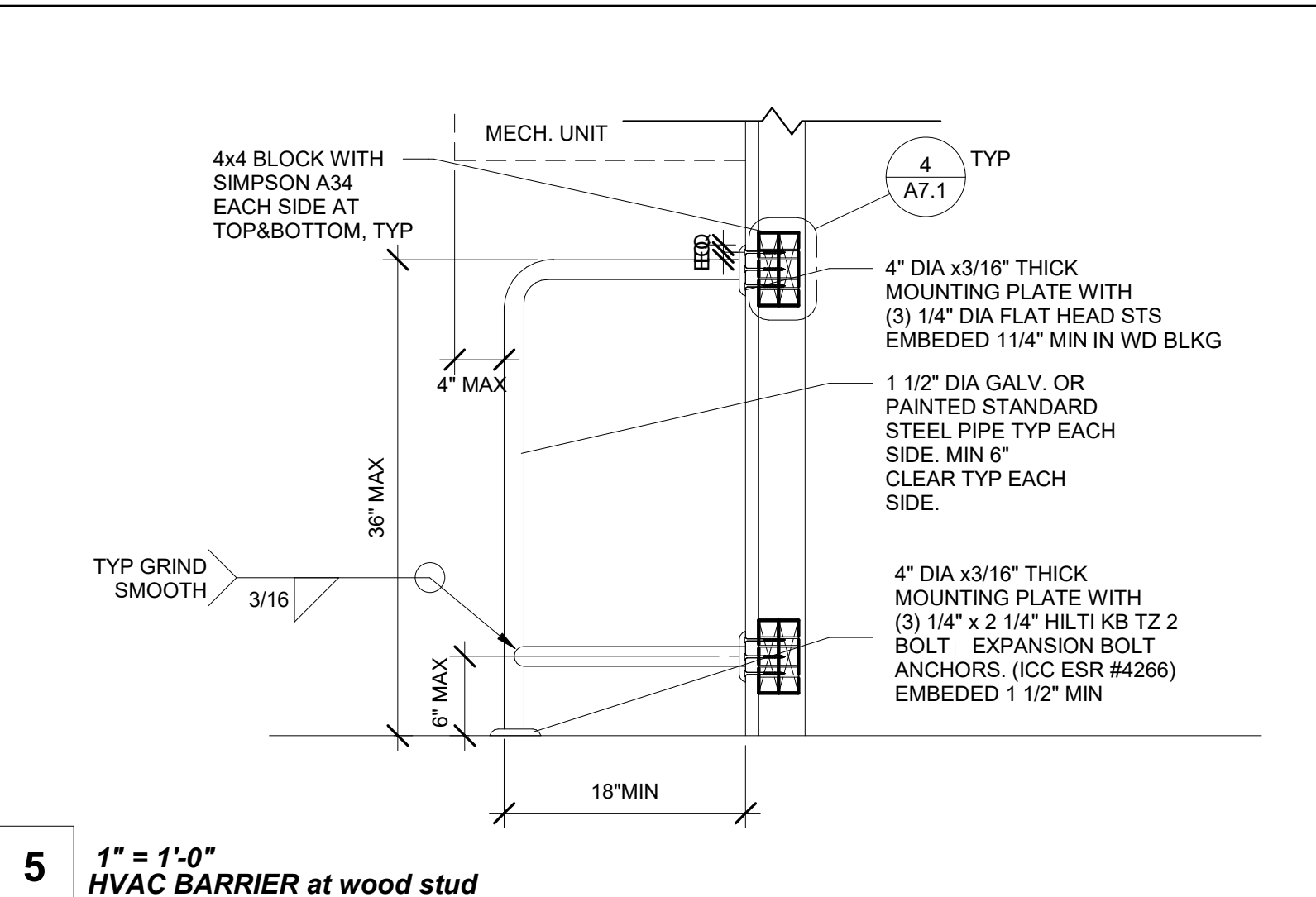




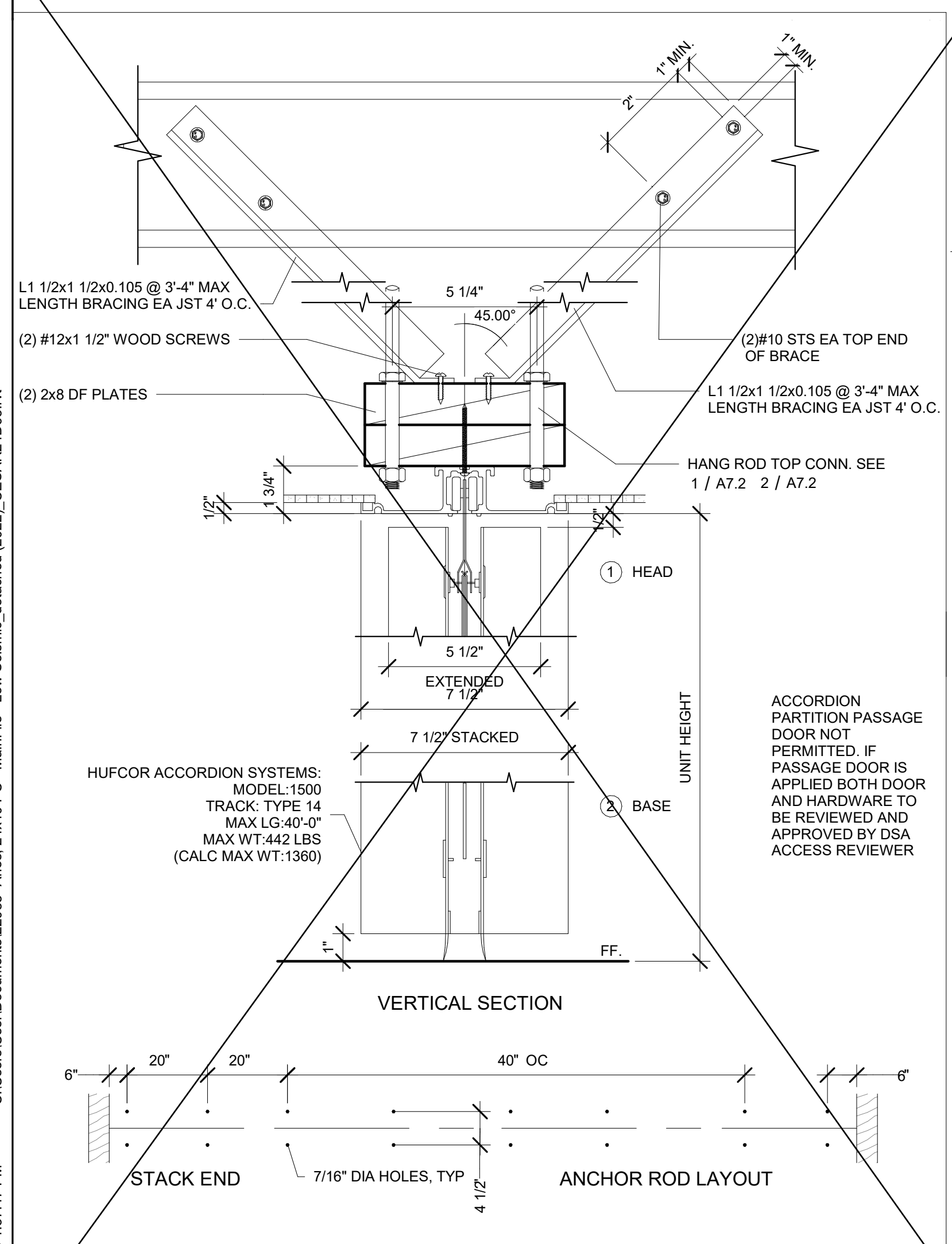
2 1 1/2" = 1'-0"
ACCORDIAN DOOR - TOP CONN AT TRUSS



1 1 1/2" = 1'-0"
ACCORDIAN DOOR - TOP CONN AT PURLIN



5 1" = 1'-0"
HVAC BARRIER at wood stud



3 3" = 1'-0"
OPTION FOR ACCORDION PARTITION ATTACHMENT

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
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PROFESSIONAL STAMP
REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FLORES
03/31/24
PC TURKEY
STATE OF CALIFORNIA
05/24/23
RST#22088

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
**PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'**

SHEET TITLE
**ADDITIONAL
OPTION DETAILS**

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

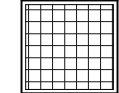
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RH/RT

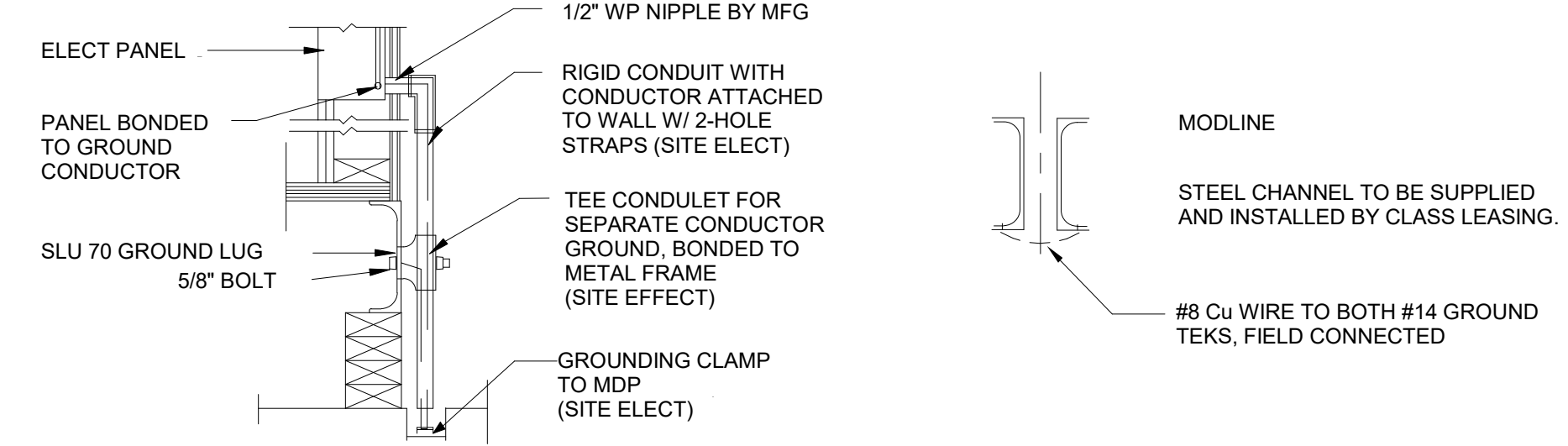
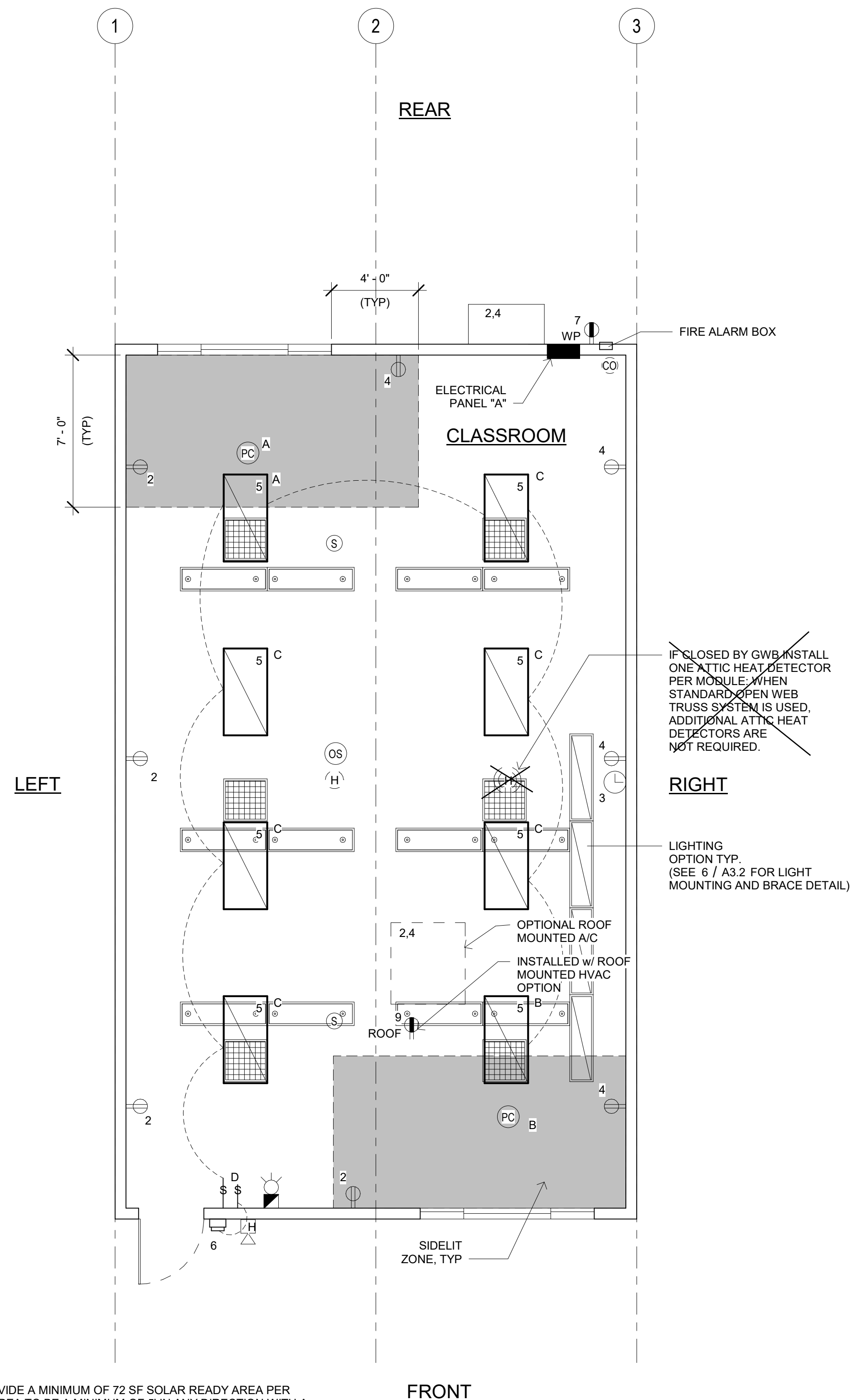
DATE

SHEET NO.
A7.2

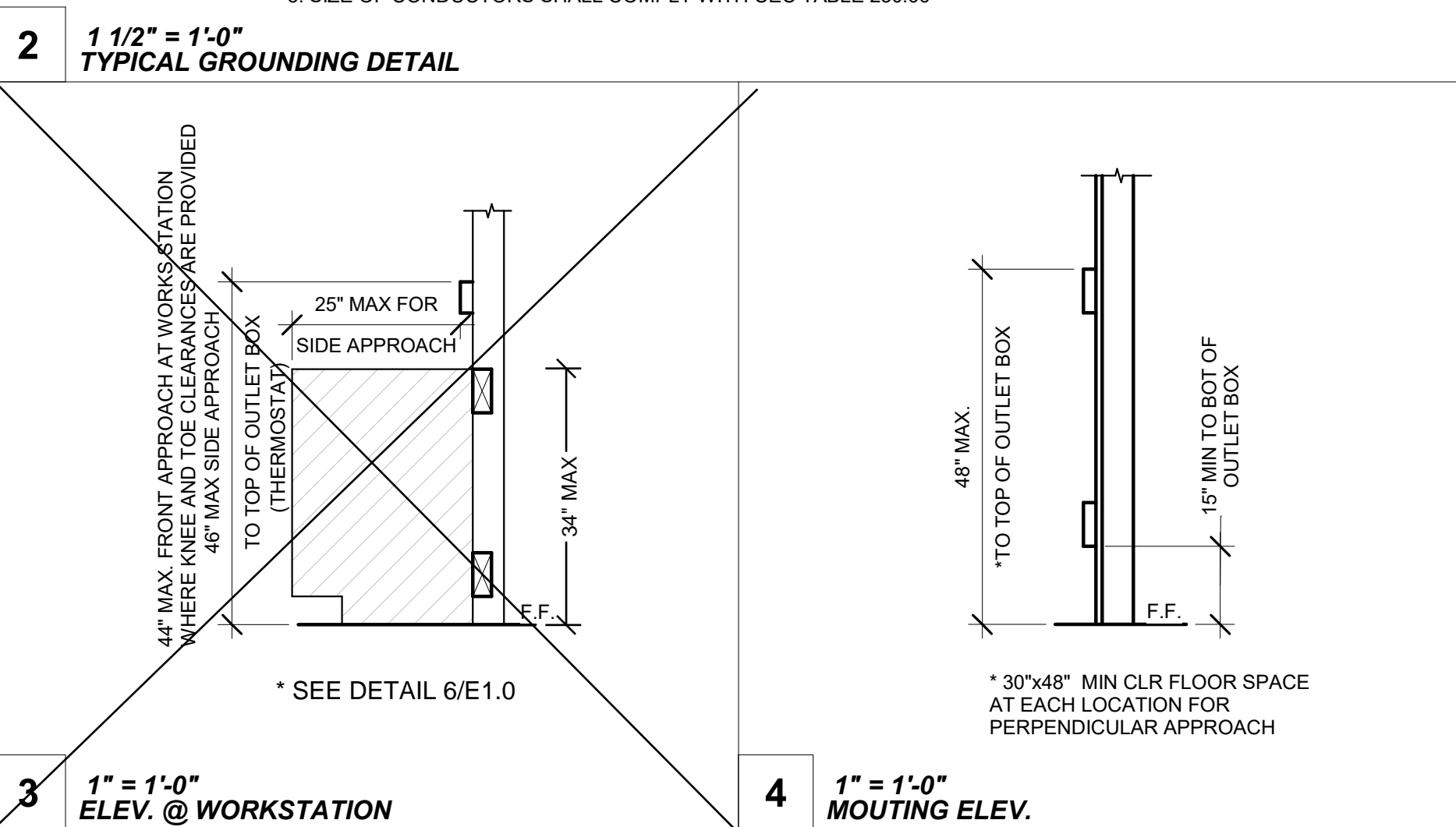
SHEET OF

8/1/2023 1:37:47 PM C:\Users\User\Documents\22088-Aries_24x40 PC - MainFile - Low Salsinc_detached (2022)_CESAR24D63.rvt

SYMBOL
 SOLAR TUBE DIFFUSER
 TUBE SIZE=21"(530mm)
 LIGHT COVERAGE AREA=250-300ft² (23-28m)



- NOTES:
- BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
 - CHECK RESISTANT TO GROUND ROD. IF RESISTANCE EXCEEDS 25 OHMS. INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56).
 - ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
 - ALL MODULES OF STEEL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP & STAIRS.
 - SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66



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

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

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 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 PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

- MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
- MP MD PP E OPTION 2: SHALL COMPLY WITH HCAI PREAPPROVAL (OPM #) # _____

FIRE ALARM NOTES

PROVIDE SPACE ON ELECTRICAL PANEL FOR LOCK-ON BREAKER, IDENTIFIED WITH RED MARKING, FOR 120 VOLTS FIRE ALARM CIRCUIT, WITH BREAKER LABELED AS FIRE ALARM CIRCUIT, CEC 760.41 (B). BREAKER AND CIRCUIT PROVIDED AND INSTALLED ON SITE BY OTHERS.

SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES TO BE PROVIDED AND INTERCONNECTED TO THE FIRE ALARM SYSTEMS ON SITE BY OTHERS

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM SYSTEM FOR ALL SITES. THE FIRE ALARM SYSTEM AND COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 75 DEG. C. COPPER)

WIRE SIZE	CAPACITY	WIRE TYPE	1/2" C	3/4" C	1" C	1 1/4" C
#12	20A	THHN	9	16	25	45
#10	30A	THHN	5	10	16	28
#8	45A	THHN	2	5	8	14
#6	65A	THHN	1	3	5	10
#4	85A	THHN	1	2	4	7

JUNCTION BOX SIZE TABLE

BOX SIZE	CU. IN.	MAX. NO. OF CONDUCTORS		
		#12	#10	#8
4SS	1 1/4"x4" SQ	18.0	8	7
4S	1 1/2"x4" SQ	21.0	9	8
4SD	2 1/8"x4" SQ	30.3	13	12
4SX	2 7/8"x4" SQ	43.5	23	21
5SD	2 1/8"x4-11/16" SQ	42.0	18	16
5SX	3 7/8"x4-11/16" SQ	86.0	38	34
664	4"x6" SQ	144.0	64	57

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

1 1/4" = 1'-0" ELECTRICAL PLAN

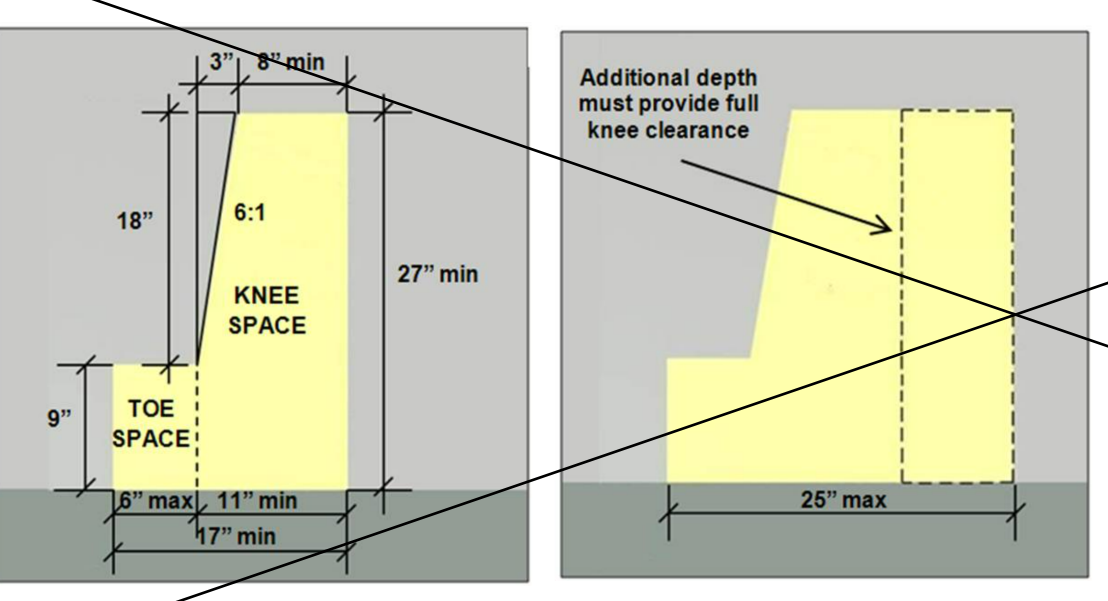
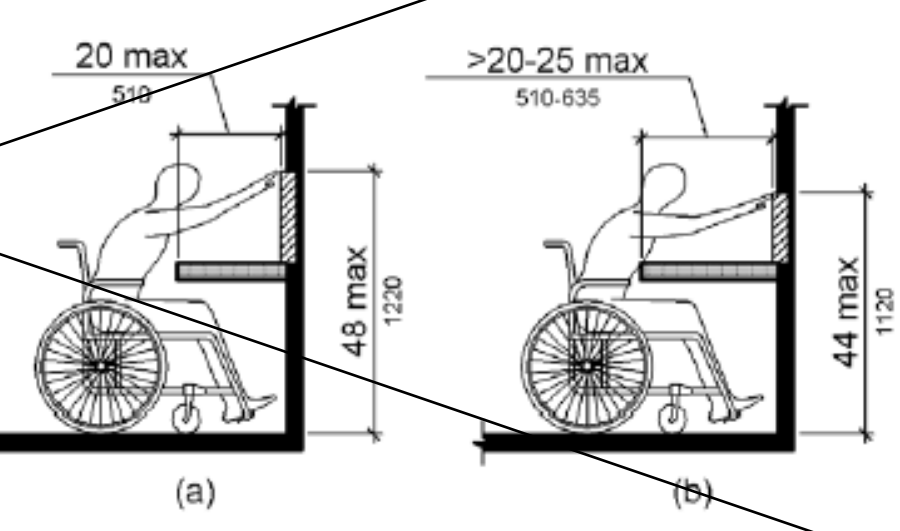


Figure 308.2 Obstructed High Forward Reach



GENERAL GROUNDING NOTES


EACH BUILDING SHALL BE GROUNDED SEPARATELY WITH A 1/2" ROUND X 8 FEET COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTTOM IS FOUND, DRIVE ROD AT 45 DEGREES MAXIMUM FROM THE VERTICAL OR HAVE IT BURIED IN A TRENCH 30" DEEP MINIMUM.

TESTING FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6 FEET, UNTIL RESISTANCE REDUCES TO 25 OHMS OR LESS. GROUND TEST MUST BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-122805 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 09/28/2023

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 REGISTERED PROFESSIONAL ENGINEER
 MANNY D. FRIEDL
 63380
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 05/24/23
 RST#22088

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
 DIV. OF THE STATE ARCHITECT
 APP. 04-121368 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
 PC 2022 CBC: 24' x 40'
 EXPANDABLE TO
 120' x 40'

SHEET TITLE
 ELECTRICAL PLAN
 24x40

PROJECT NUMBER
 22088

DRAWN BY
 rMc/SC

CHECKED BY
 RH/RT

DATE

SHEET NO.
 E1.0

SHEET OF

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1 1" = 1'-0"
ELECTRICAL PANEL_WALL MOUNTED

PANEL A 24" x40"	120/208 VOLTS, 1 φ, 3 WIRE						MAIN LUGS ONLY				PANEL BOX= 100A	
	LOADCENTER		SURFACE MOUNTED				GRD & NEUTRAL BARS				AMP BUS	
	VOLTAMPS		10000 AIC				VOLTAMPS					
DESCRIPTION	φ A	φ B	C/B	CKT	φ	CKT	C/B	φ A	φ B	DESCRIPTION		
AC WALL MOUNTED	6670		30	1	A	2	20	720		OUTLETS		
		6670	30	3	B	4	20		720	OUTLETS		
GENERAL LIGHTING	720		20	5	A	6	20	40		EXTERIOR LIGHT		
EXTERIOR GFI/WP		180	20	7	B	8	20			FIRE ALARM		
			20	9	A	10	20	40				
DED SOLAR READY												
DED SOLAR READY												
SUBTOTAL	φ A 7390	φ B 6850						φ A 800	φ B 720	SUBTOTAL		
TOTAL	8190	7570	8190 /120 VOLTS= 68.25				76.25 AMPS + .94= 77.19 AMPS					

PANEL A 24" x40"	120/208 VOLTS, 1 φ, 3 WIRE						MAIN LUGS ONLY				PANEL BOX= 100A	
	LOADCENTER		SURFACE MOUNTED				GRD & NEUTRAL BARS				AMP BUS	
	VOLTAMPS		10000 AIC				VOLTAMPS					
DESCRIPTION	φ A	φ B	C/B	CKT	φ	CKT	C/B	φ A	φ B	DESCRIPTION		
AC Roof Mounted	7360		30	1	A	2	20	720		OUTLETS		
		7360	30	3	B	4	20		720	OUTLETS		
GENERAL LIGHTING	720		20	5	A	6	20	40		EXTERIOR LIGHT		
EXTERIOR GFI/WP		180	20	7	B	8	20			FIRE ALARM		
			20	9	A	10	20	40				
DED SOLAR READY												
DED SOLAR READY												
SUBTOTAL	φ A 8080	φ B 7540						φ A 800	φ B 720	SUBTOTAL		
TOTAL	8880	8260	8880 /120 VOLTS= 74				74 AMPS + 18.5= 92.5 AMPS					

2 1" = 1'-0"
ELECTRICAL PANEL_ROOF MOUNTED

- LEGEND**
- ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT
 - ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DWGS
 - WALL MOUNTED HVAC UNIT, SEE MECHANICAL DWGS
 - 100 CFM CEILING MOUNTED EXHAUST FAN, INTERLOCKED WITH LIGHT SWITCH
 - 4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT
4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS), MAXIMUM 33'-0" FROM ANY POINT IN ATTIC BUT NOT MORE THAN 25'-0" FROM TWO PERPENDICULAR WALL AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION, CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
 - 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS), MAXIMUM 21'-0" FROM ANY POINT IN ROOM BUT NOT MORE THAN 15'-0" TO A PERPENDICULAR WALL AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION, CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
 - RECESSED 4SD J-BOX W/ COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS, MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULLSTRING
 - 4SD J-BOX FOR EXTERIOR FIRE ALARM HORN (DEVICE BY OTHERS), MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULLSTRING
 - 4SD J-BOX/SINGLE GANG MUD RING FOR FIRE ALARM STROBE (DEVICE BY OTHERS), BOTTOM OF LENS 80" MIN TOP OF LENS 96" MAX AFF WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULLSTRING
 - 4SD J-BOX/ SINGLE GANG MUD RING FOR FIRE ALARM PULL STATION (DEVICE BY OTHERS), MOUNT AT +48" AFF TO TOP OF CONTROL BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULLSTRING
 - EXIT SIGN WITH BATTERY BACK UP, EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS, FLS 90° BACK UP, CLASSROOMS WITH ONE EXTERIOR DOOR-OPTIONAL.
 - CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE
 - EXTERIOR LED LIGHT FIXTURE, 30w MAX WITH PHOTOCELL MOUNT AT +93" AFF
 - ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE
 - GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS
 - EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24" AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)
 - DUPLEX (WALL MOUNTED) RECEPTACLE 15A-125V-3 WIRE, MOUNT AT +15" AFF U.O.N. TO BOTTOM OF OUTLET BOX
 - 3-WAY LIGHT SWITCH, MOUNT AT+48" AFF TO TOP OF SWITCH BOX
 - LIGHT SWITCH, MOUNT AT+48" AFF TO TOP OF SWITCH BOX
 - SINGLE BUTTON DIMMER SWITCH, AT +48" AFF, TO TOP OF SWITCH BOX, WATTSTOPPER #LMMD-101 OR EQUAL
 - SINGLE SWITCH WALL OCCUPANCY SENSOR, WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM) LESS THAN 100 SQ FT W/ (1) CIRCUIT.
 - ULTRASONIC CEILING OCCUPANCY SENSOR, WATTSTOPPER W-500A OR EQUAL. SENSOR TO BE CONNECTED TO KEYPED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.
 - CEILING MOUNTED PHOTOCELL, WATTSTOPPER #MLMS-500 OR EQUAL
 - CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER #LMPC-100 OR EQUAL
 - 2x4 CEILING LIGHT WITH (3) LED PANELIGHT, LAY-IN LIGHT FIXTURE WITH DIMMABLE BALLAST DIMI LIGHTING-MODEL DM-P72448W-40K-ZZ WATTAGE: 48W (48" LG) OR EQUAL
 - 2x4 CEILING LIGHT WITH (3) LED PANELIGHT, LAY-IN LIGHT FIXTURE WITH DIMMABLE BALLAST DIMI LIGHTING-MODEL DM-P72448W-40K-ZZ WATTAGE: 48W (48" LG) OR EQUAL
EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE, THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES, ANY LIGHT FIXTURE EQUIPPED WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE, ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.
 - NOTE: SEE 4/A3.2 FOR PHOTOMETRIC DATA

3 1" = 1'-0"
LEGEND

PROJECT SPECIFIC STATE AGENCY APPROVAL

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APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

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APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
ELECTRICAL SCHEDULES 24x40

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
E1.1

SHEET OF

ABB.	DESCRIPTION	SYMBOL
WM	WALL MOUNTED UNIT (SEE SCHEDULE THIS SHEET)	WM-1
RM	ROOF MOUNTED UNIT (SEE SCHEDULE THIS SHEET)	RM-1
P.O.C	POINT OF CONNECTION	P.O.C
CO	CARBON MONOXIDE SENSOR	(CO)
BT	BYPASS TIMER	(BT)
STAT	THERMOSTAT	(T)
UC	UNDERCUT DOOR	UC →
MVD	MANUAL VOLUME DAMPER	
FD	FIRE DAMPER	
VTR	VENT THRU ROOF	
ER	EXHAUST CEILING REGISTER	
CR	RETURN CEILING REGISTER	
CD	SUPPLY CEILING DIFFUSER	
(L)	LINED DUCTWORK	
EAD	EXHAUST AIR DUCT	
RAD	RETURN AIR DUCT	
SAD	SUPPLY AIR DUCT	
EF	EXHAUST FAN	(EF)
CO2	CARBON MONOXIDE SENSOR	(CO2)

1 1" = 1'-0"
LEGEND

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- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS 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 AS NOTED ON THE DRAWINGS. 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 AND 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.

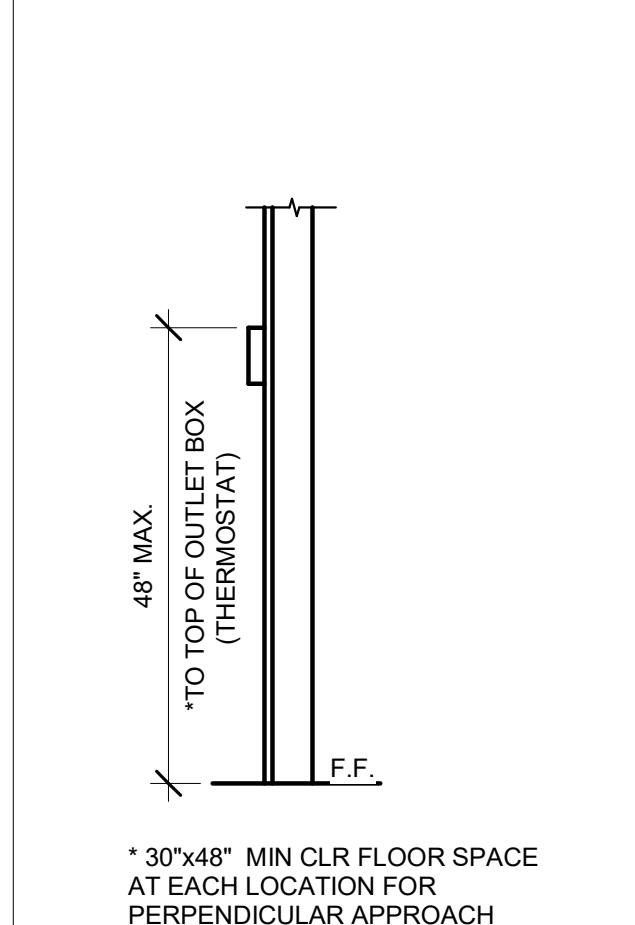
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E).

MEP COMPONENTS OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MEP COMPONENTS OPTION 2: SHALL COMPLY WITH HCAI PRE-APPROVAL (OPM #) #

5 1" = 1'-0"
EQUIPMENT ANCHORAGE

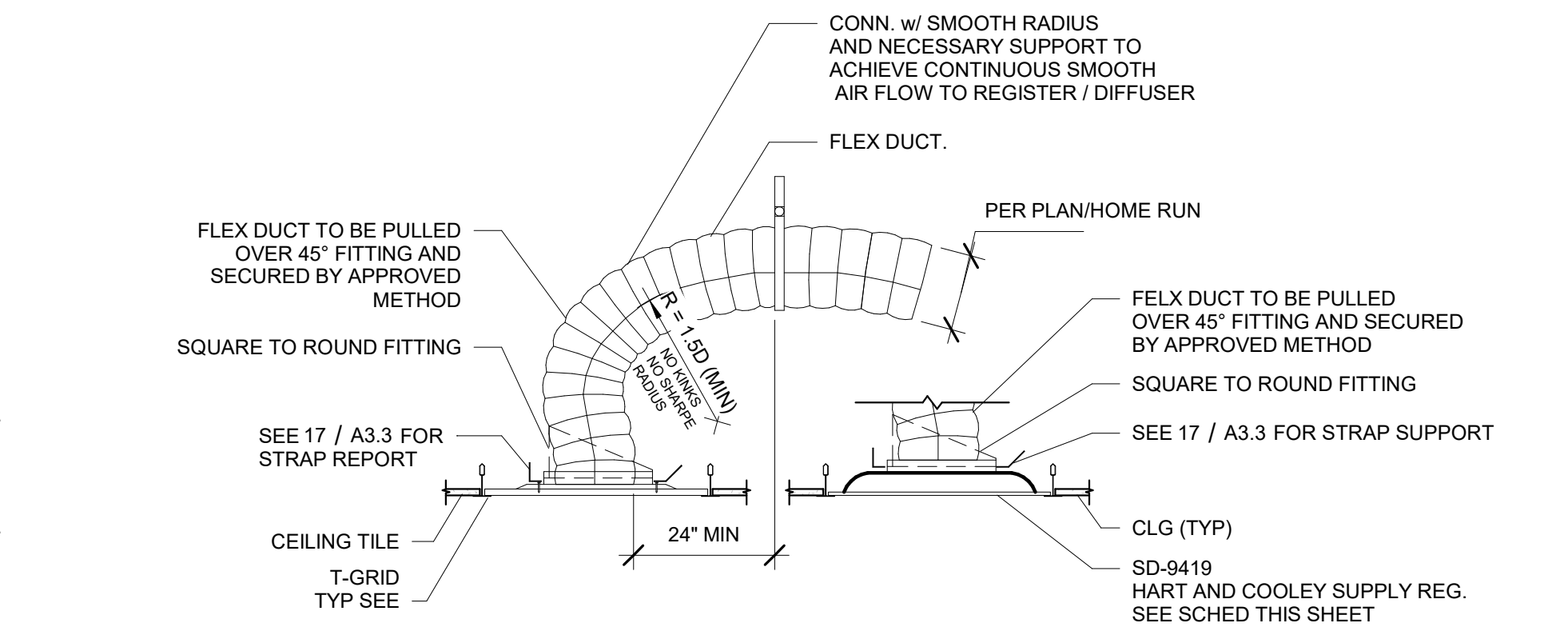


9 1" = 1'-0"
MOUNTING ELEV.

SYM.	USE	MFR/MODEL	CFM	SOUND LEVEL	SP	VOLTS	Ø	POWER	WGT#	NOTES
(EF A)	BATHROOM EXHAUST	*BROAN L100	109	1.0 SONES	0.25	120	1	87 WATTS	22.80#	WITH BROAN ROOF CAP #634. PROVIDE 6" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
(EF B)	BATHROOM EXHAUST	*BROAN L200	210	2.0 SONES	0.25	120	1	127 WATTS	23#	WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
(EF C)	BATHROOM EXHAUST	*BROAN L300	308	2.8 SONES	0.25	120	1	212 WATTS	23.10#	WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
(EF D)	BATHROOM EXHAUST	*BROAN 676	100	4.0 SONES	0.25	120	1	156 WATTS	7#	WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.

*OR APPROVED EQUAL.

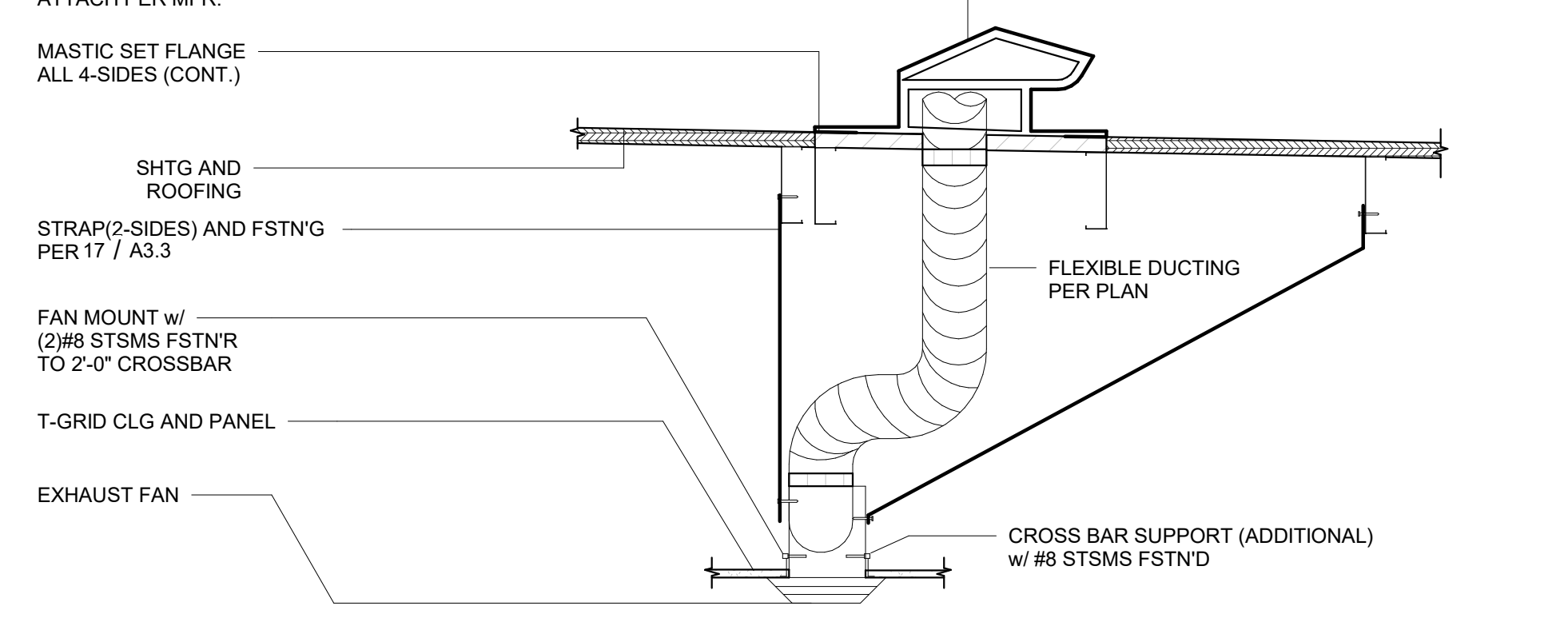
2 1" = 1'-0"
CEILING MOUNTED EXHAUST FAN SCHEDULE



PERFORATED FACE GRILLE SCHEDULE (SUPPLY)

NECK SIZE	CFM (RANGE)	NOTES
6"Ø	0-150	SEE DETAIL FOR MAKE AND MODEL
8"Ø	150-230	SEE DETAIL FOR MAKE AND MODEL
10"Ø	230-350	SEE DETAIL FOR MAKE AND MODEL
12"Ø	350-460	SEE DETAIL FOR MAKE AND MODEL
14"Ø	460-640	SEE DETAIL FOR MAKE AND MODEL

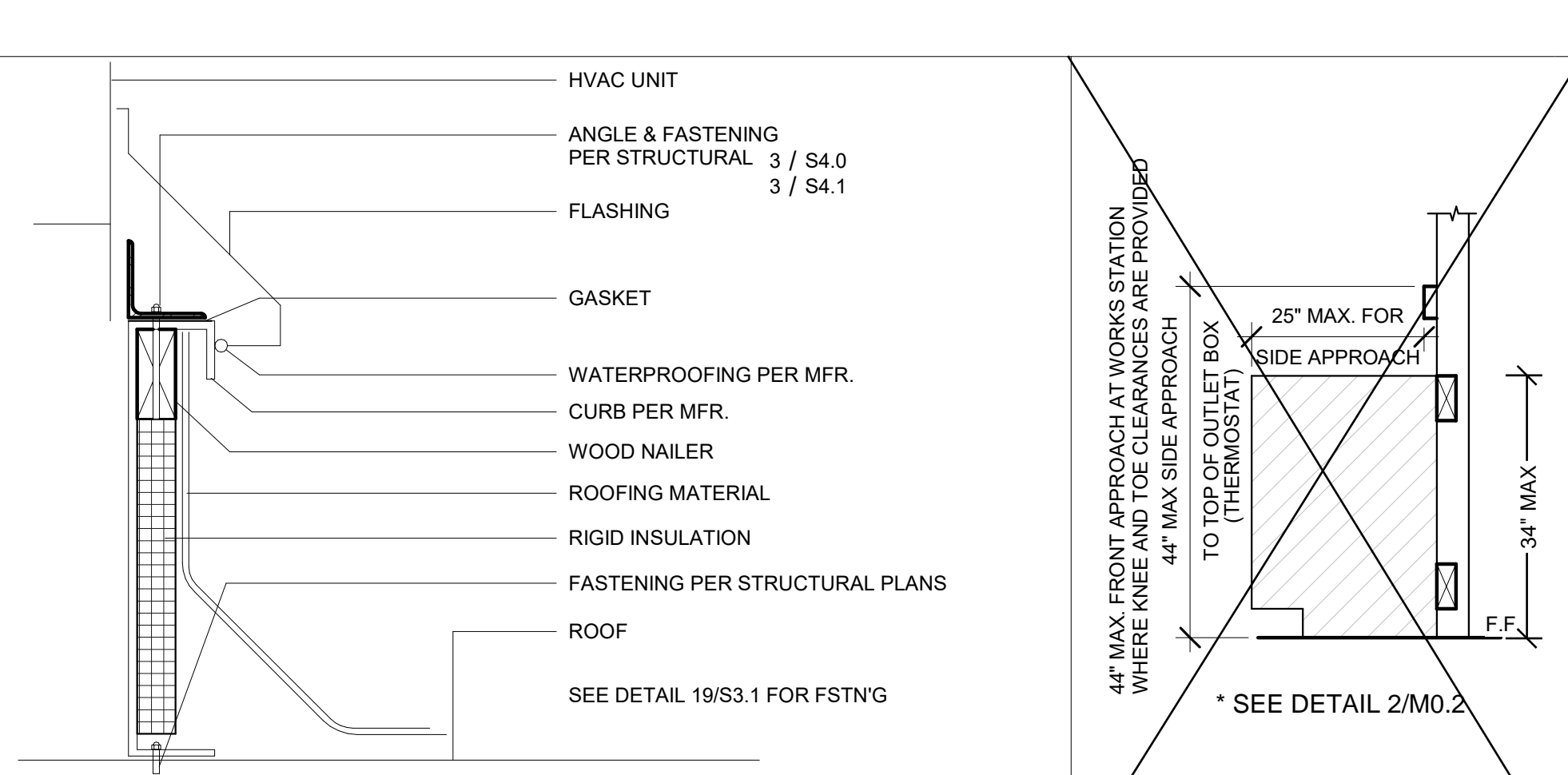
ROOF CAP PER SCHEDULE (THIS SHEET) ATTACH PER MFR.



NECK SIZE	CFM (RANGE)	NOTES
6"Ø	0-230	SEE MECH CLG PLAN FOR SIZE
10"Ø	230-460	SEE MECH CLG PLAN FOR SIZE
12"Ø	350-460	SEE MECH CLG PLAN FOR SIZE
14"Ø	460-710	SEE MECH CLG PLAN FOR SIZE
16"Ø	277-1664	SEE MECH CLG PLAN FOR SIZE

SEE ISOMETRIC DETAIL 17/A3.3 FOR STRAPS

3 1" = 1'-0"
PFG SCHED (SUPPLY)

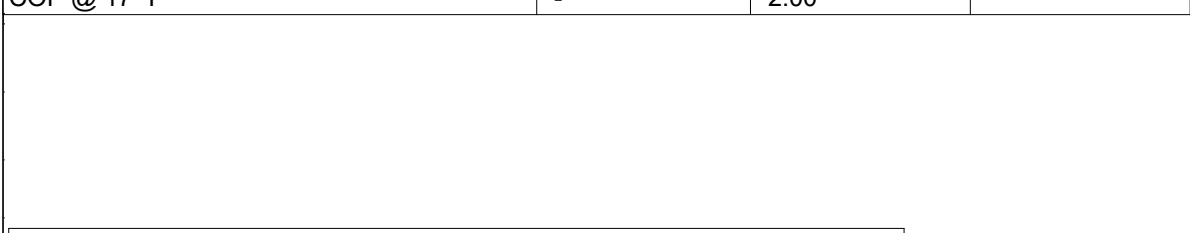


NECK SIZE	CFM (RANGE)	NOTES
6"Ø	0-230	SEE MECH CLG PLAN FOR SIZE
10"Ø	230-460	SEE MECH CLG PLAN FOR SIZE
12"Ø	350-460	SEE MECH CLG PLAN FOR SIZE
14"Ø	460-710	SEE MECH CLG PLAN FOR SIZE
16"Ø	277-1664	SEE MECH CLG PLAN FOR SIZE

4 1" = 1'-0"
PFG SCHED (RETURN)

10 1" = 1'-0"
ELEV. @ WORKSTATION

SINGLE PACKAGE VERTICAL HEAT PUMP SCHEDULE		
TAG	STANDARD	OPTION #
NOMINAL TONNAGE	3.0 TONS	4.0 TONS
MANUFACTURER	**BARD	**BARD
MODEL#	W36H-A	W48H-A
CFM	1150	1500
STATIC PRESSURE	0.15	0.2
MIN OSA	365	548
DRIVE	DIRECT	DIRECT
MCA	20.4	58
MOCP	30	60
VOLTAGE	208/230-1	208/230-1
WIRE SIZE (PWR/GRND)	#6/#10	#6/#10
DESIGN RETURN AIR (DB/WB)	80/67	80/67
SENSIBLE COOLING @ 95° F (PART/FULL)	24.00/28.00	25.900/36.00
TOTAL COOLING @ 95° F (PART/FULL)	32.00/36.00	34.000/45.500
HEATING CAP. BTU/H @ 47° F (PART/FULL)	29.200/32.200	29.200/41.500
HEATING CAP. BTU/H @ 17° F	20.000	26.000
OPERATING WEIGHT	380#	550#
EER	11.10	11.00
COP @ 47° F	3.30	3.00
COP @ 17° F	-	2.00



SINGLE PACKAGE ROOF TOP HEAT PUMP SCHEDULE		
TAG	STANDARD	OPTION #
NOMINAL TONNAGE	3.0 TONS	4 TONS
MANUFACTURER	**CARRIER	**CARRIER
MODEL#	50VTC48	50VTC48
CFM	1200	1500
STATIC PRESSURE	0.15	0.4
MIN OSA	365	548
DRIVE	BELT	BELT
MCA	59	64
MOCP	60	74
VOLTAGE	208/230-1	208/230-1
WIRE SIZE (PWR/GRND)	#6/#10	#4/#8
DESIGN RETURN AIR (DB/WB)	80/67	80/67
SENSIBLE COOLING @ 95° F	30.500	35.260
TOTAL COOLING @ 95° F	35.600	49.600
HEATING CAP. BTU/H @ 47° F	35.500	45.5000
HEATING CAP. BTU/H @ 17° F	18.400	28.600
OPERATING WEIGHT	572#	560#
SEER	14.00	14.00
HSPF	8.1	8.0
COP @ 47° F	3.4	3.4
COP @ 17° F	2.3	2.4



ATTACHMENT B: Mechanical Equipment List
This attachment summarizes all the HVAC equipment and controls required for each size modular building. Indicate NA for all non-applicable boxes.

Module size and equipment type	Response for programming/controlling/controls (or HVAC control)
HVAC Equipment Make and Model	NA
HVAC Equipment Controls	NA
HVAC Equipment Efficiency	NA
Heating	NA
Thermostat	NA
Thermostat Brand	NA
Thermostat Model	NA
Thermostat Location	NA
Thermostat Manufacturer	NA
Thermostat Model	NA
Thermostat Location	NA
Thermostat Manufacturer	NA
Thermostat Model	NA
Thermostat Location	NA
Thermostat Manufacturer	NA

BUILDING SIZE	# OF HVAC	
	3 1/2 TON HVAC	4 TON HVAC
□ 24' x 40'	1	
□ 36' x 40'		1
□ 48' x 40'	2	
□ 60' x 40'		2
□ 72' x 40'	3	
□ 84' x 40'		3
□ 96' x 40'	4	
□ 108' x 40'		4
□ 120' x 40'	5	

MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL UNITS

HVAC NOTES
1. SET BACK THERMOSTAT SHALL BE PROVIDED
2. MINIMUM OUTSIDE AIR 15 CFM PER OCCUPANT AND THE UNIT SHALL UTILIZE DEMAND CONTROL VENTILATION
3. MODEL NUMBERS FOR HEAT PUMP UNITS WITH OPTIONAL 5.0 AUXILIARY HEAT STRIPS, WHEN THE HEAT STRIP IS NOT USED, THE MCA AND MOCP MUST BE VERIFIED AND HEAT STRIPS LARGER THAN THE SIZES SHOWN MAY NOT BE USED.

SECTION 915 CARBON MONOXIDE DETECTION
915.2.3 Group E occupancies. Carbon monoxide detection shall be installed in classrooms in Group E occupancies. Carbon monoxide alarm signals shall be automatically transmitted to an on-site location that is staffed by school personnel.
915.3 Detection equipment. Carbon monoxide detection required by Sections 915.1 through 915.2.3 shall be provided by carbon monoxide alarms complying with Section 915.4 or carbon monoxide detection systems complying with Section 915.5.
CFC 915.1 - Classrooms which contain a fuel-burning appliance or a fuel-burning fireplace or are supplied by a forced-air furnace shall be provided with a carbon monoxide detection system. Provide a carbon monoxide detection system
GENERAL NOTE:
UTILITIES THAT SPAN BETWEEN UNITS OR ACROSS SEISMIC SEPARATION JOINTS MUST BE DESIGNED WITH A FLEXIBLE CONNECTION THAT CAN ACCOMMODATE DIFFERENTIAL MOVEMENTS

120.1(D) THERMOSTAT SHALL BE PROGRAMMED WITH EXPECTED OCCUPIED TIMES AIR HANDLER FAN WILL BE PROGRAMMED TO RUN DURING ALL OCCUPIED TIMES. PRE-OCCUPANCY PURGE SHALL BE PROGRAMMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED.
FOR ROOF MOUNTED HVAC UNITS A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT. MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND THE CURB. THE SUPPLY AND RETURN DUCTS SHALL BE ATTACHED TO THE CURB AND MASTIC SHALL BE USED TO SEAL THE DUCTS TO THE CURB. THE SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALIGN WITH THE HVAC UNIT.
FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4.
DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4 FT INTERVALS, WITH HANGING STRAPS AT A MINIMUM 1 1/2 IN. WIDE. DUCTS MUST BE PULLED TIGHT WITH A MAXIMUM SAG OF 1/2" PER FOOT OF HORIZONTAL RUN.
DUCT SHALL NOT BE KINKED OR CRUSHED.
BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.

APPROVED DIV. OF THE STATE ARCHITECT APP: 04-122805 INC. REVIEWED FOR SS FLS ACS DATE: 09/28/2023

APPROVED DIV. OF THE STATE ARCHITECT APP: 04-121368 PC REVIEWED FOR SS FLS ACS CG DATE: 09/22/2023

PROFESSIONAL STAMP
MANOY D. F. PROPELLER REGISTERED PROFESSIONAL ARCHITECT 83380 03/31/24 CALIFORNIA DATE: 05/24/23

REVISION SCHEDULE

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
MISCELLANEOUS NOTES & DETAILS

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
MO.1

SHEET OF

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-122805 INC. REVIEWED FOR SS FLS ACS DATE: 09/28/2023

R & S TAVARES ASSOCIATES DESIGN & CONSULTING PROJECT MEET 1150 W BERNARD COURT, SUITE 100 SAN DIEGO, CA 92127 WWW.RSTAVARES.COM

PROFESSIONAL STAMP
MANOY D. F. PROPELLER REGISTERED PROFESSIONAL ARCHITECT 83380 03/31/24 CALIFORNIA DATE: 05/24/23

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CLIENT
Class Leasing
1320 W. Oleander Ave, Perris CA 92571-7408 VOICE (951) 943-1908*FAX (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED DIV. OF THE STATE ARCHITECT APP: 04-121368 PC REVIEWED FOR SS FLS ACS CG DATE: 09/22/2023

REVISION SCHEDULE

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
MISCELLANEOUS NOTES & DETAILS

PROJECT NUMBER
22088

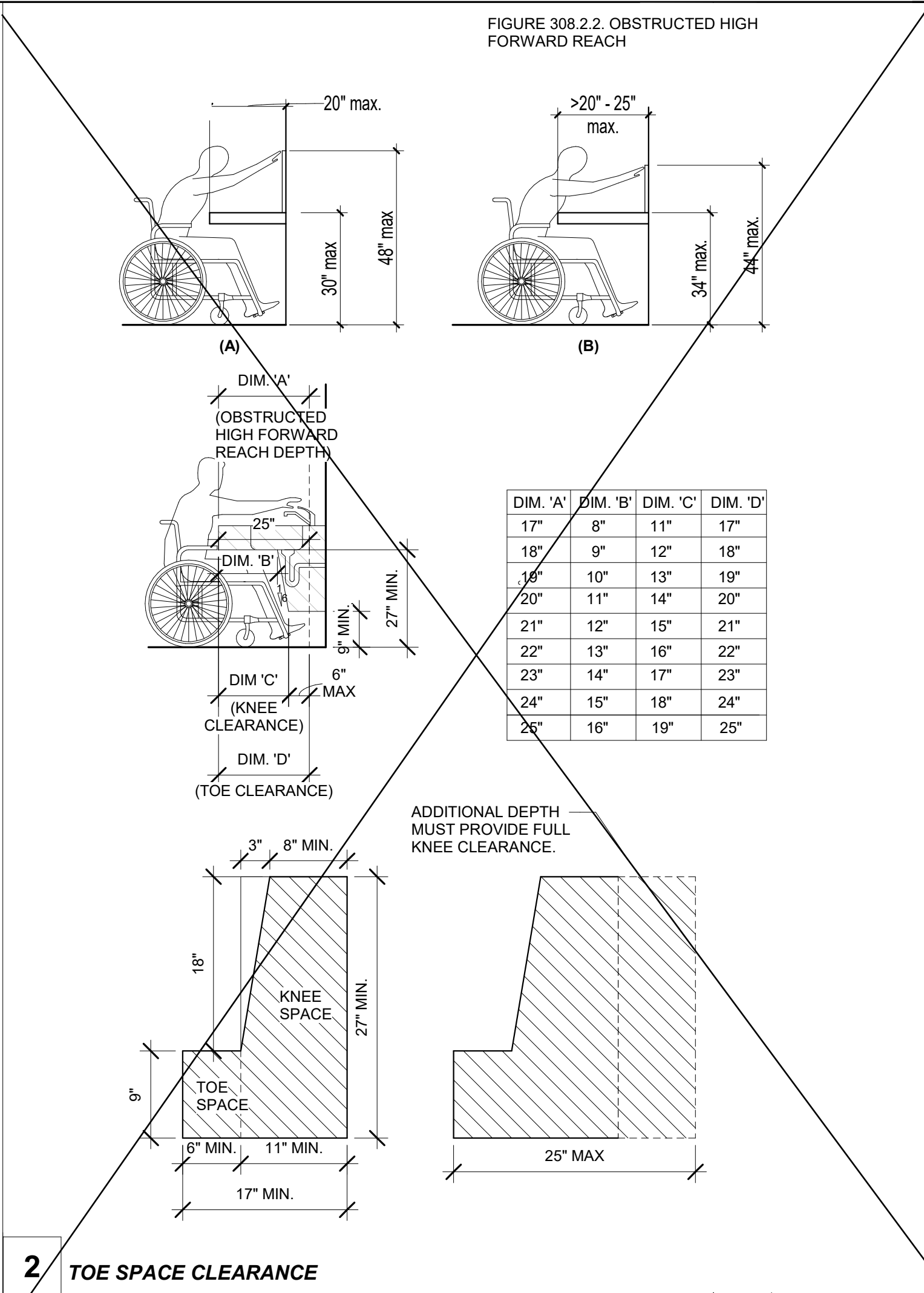
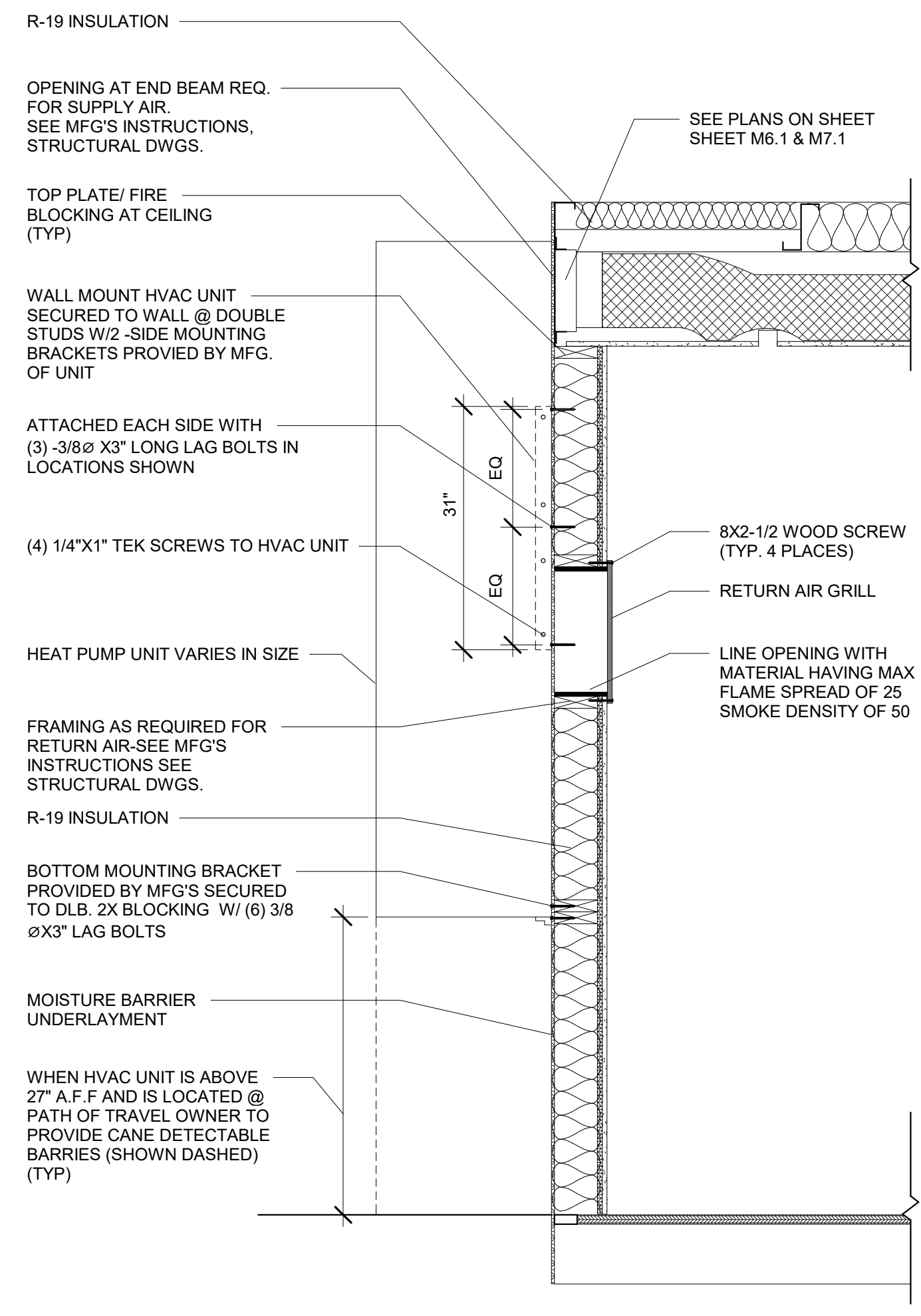
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SHEET NO.
MO.1

SHEET OF



120.1(D)
THERMOSTAT SHALL BE PROGRAMED WITH EXPECTED OCCUPIED TIMES AIR HANDLER FAN WILL BE PROGRAMED TO RUN DURING ALL OCCUPIED TIMES. PRE-OCCUPANCY PURGE SHALL BE PROGRAMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED.

FOR ROOF MOUNTED HVAC UNITS A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT. MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND THE CURB. THE SUPPLY AND RETURN DUCTS SHALL BE ATTACHED TO THE CURB AND MASTIC SHALL BE USED TO SEAL THE DUCTS TO THE CURB. THE SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALIGN WITH THE HVAC UNIT.

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

DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4 FT INTERVALS, WITH HANGING STRAPS A MINIMUM 1 1/2 IN. WIDE. DUCTS MUST BE PULLED TIGHT WITH A MAXIMUM SAG OF 1/2\"/>

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

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

1 3/4" = 1'-0" HVAC @ WALL SECTION

2 TOE SPACE CLEARANCE

3 1/4" = 1'-0" MECHANICAL NOTES

SEQUENCE OF OPERATIONS

BARO W48HC-A

Sequence of Operation

Cooling
Circuit R-Y1 makes at thermostat pulling in compressor contactor, starting the compressor and outdoor motor. (See **NOTE under Condenser Fan Operation** concerning models equipped with low ambient control.) The G (indoor motor) circuit is automatically completed by the thermostat on any call for cooling operation or can be energized by manual fan switch on subbase for constant air circulation. On a call for 2nd stage heating, circuit R-W2 makes at the thermostat pulling in heat contactor for the strip heat and blower operation. On a call for third stage heat, R-W3 makes bringing on second heat contactor, if so equipped.

Heating
A 24V solenoid coil on reversing valve controls heating cycle operation. Two thermostat options, one allowing "Auto" chgover from cycle to cycle and the other constantly energizing solenoid coil during heating season—thus eliminating pressure equalization noise except during defrost, are to be used.

On "Auto" option, a circuit is completed from R-B/W1 and R-Y1 on each heating "on" cycle, energizing reversing valve solenoid and pulling in compressor contactor, starting compressor and outdoor motor. R-G also make starting indoor blower motor. Heat pump heating cycle now in operation.

The second option has no "Auto" chgover position, but instead energizes the reversing valve solenoid constantly whenever the system switch on subbase is placed in "Heat" position, the "B" terminal being constantly energized from R. A thermostat demand for heat completes R-Y1 circuit, pulling in compressor contactor starting compressor and outdoor motor. R-G also make starting indoor blower motor.

On a call for 2nd stage heating, circuit R-W2 makes at the thermostat pulling in the heat contactor for the strip heat and blower operation. On a call for third stage heat, R-B/W1 breaks, dropping out heat pump, and R-W3 makes, bringing on second heat contactor, if so equipped.

Balanced Climate™ Mode

Balanced Climate™ is a great comfort feature that can easily be applied under any normal circumstances. If the Bard air conditioning system is being set up in a typical environment where 72°F is the lowest cooling setpoint, remove the Y1Y2 jumper and install a 2-stage cooling thermostat. This will increase the humidity removal up to 35% and provide a much more comfortable environment. This mode will also increase the supply temperature when in heating mode. When Balanced Climate mode is activated, it is employed in both heating and cooling modes.

NOTE: Units with mechanical dehumidification require an additional connection to be made when enabling Balanced Climate. Refer to dehumidification supplemental instructions for this step.

If the application is likely to require air conditioning operation below 60°F outdoor conditions, a low ambient control (LAC) kit must be installed. The LAC kit is equipped with an outdoor temperature switch that disables Balanced Climate mode when the outdoor temperature drops below 50°F. This prevents potential evaporator coil freeze up issues. The LAC kit also comes with an evaporator freeze protection thermostat that cuts out the compressor if the evaporator begins to freeze up.

If the unit is being installed with any ventilation package, a Bard LAC kit must be installed. Failure to utilize an LAC with any air conditioner can cause coil freeze up.

Balanced Climate can readily be applied to duct-free (supply and return air grille) applications. It may also be applied to ducted applications with limited static of 0.20" ESP (total including both supply and return statics). Consult Bard Application Engineering for details prior to implementation.

CAUTION: Balanced Climate is not a replacement for a dehumidification (hot gas reheat) unit for extreme applications, but rather an enhancement feature for limited climates and applications.

BARO C60HC1 & C42HC1

Sequence of Operation

Cooling Stage 1 – Circuit R-Y makes at thermostat pulling in compressor contactor, starting the compressor and outdoor motor. The G (indoor motor) circuit is automatically completed on any call for cooling operation or can be energized by manual fan switch on subbase for constant air circulation.
Cooling Stage 2 – Circuit R-Y1 makes at the thermostat, energizing the 2nd stage solenoid in the compressor. Default position is not energized. Compressor will run at low capacity until this solenoid is energized.
Heating Stage 1 – A 24V solenoid coil on reversing valve controls heating cycle operation. Two thermostat options, one allowing "Auto" chgover from cycle to cycle and the other constantly energizing solenoid coil during heating season and thus eliminating pressure equalization noise except during defrost, are to be used. On "Auto" option, a circuit is completed from R-B and R-Y on each heating "on" cycle, energizing reversing valve solenoid and pulling in compressor contactor starting compressor and outdoor motor. R-G also make, starting indoor blower motor. Heat pump heating cycle now in operation. The second option has no "Auto" chgover position, but instead energizes the reversing valve solenoid constantly whenever the system switch on subbase is placed in "Heat" position, the "B" terminal being constantly energized from R. A thermostat demand for heat completes R-Y circuit, pulling in compressor contactor starting compressor and outdoor motor. R-G also make starting indoor blower motor.

Heating Stage 2 – Circuit R-Y2 makes at the thermostat, energizing the 2nd stage solenoid in the compressor.
Pressure Service Ports
High and low pressure service ports are installed on all units so that the system operating pressures can be observed. Pressure tables 6A and 6B cover all models. It is imperative to match the correct pressure table to the unit by model number.

This unit employs high-flow Coremax valves instead of the typical Shrader type valves.
WARNING! Do Not use a Schrader valve core removal tool with these valves. Use of such a tool could result in eye injuries or refrigerant burns!

To change a Coremax valve without first removing the refrigerant, a special tool is required which can be obtained at www.fastestinc.com/en/SCCA07H. See the replacement parts manual for replacement core part numbers.

On a call for 2nd stage heating, circuit R-W2 makes at the thermostat pulling in the heat contactor for the strip heat and blower operation. On a call for third stage heat, R-B/W1 breaks, dropping out heat pump, and R-W3 makes, bringing on second heat contactor, if so equipped.

CARRIER 50VTC48L

OPERATION

Sequence of Operation—When free cooling is not available, the compressor will be controlled by the thermostat. When free cooling is available, the outdoor-air damper is modulated by the Econimizer control to provide a 50° to 55°F (10° to 12.8°C) supply-air temperature into the zone. As the supply-air temperature fluctuates above 55° (12.8°C) or below 50°F (10°C), the dampers will be modulated (open or close) to bring the supply-air temperature back within the set points. For Econimizer operation, there must be a thermostat call for the fan (G). This will move the damper to its minimum position during the occupied mode.
NOTE: The DCV Max potentiometer must be closed (CCW) when not using CO₂ sensor.
Above 50°F (10°C) supply-air temperature, the dampers will modulate from 100% open to the minimum open position. From 50°F to 45°F (10° to 7.2°C) supply-air temperature, the dampers will maintain at the minimum open position. Below 45°F (7.2°C), the dampers will be completely shut. As the supply-air temperature rises, the dampers will come back open to the minimum open position once the supply-air temperature rises to 48°F (8.9°C). If power exhaust is installed, as the outdoor-air damper opens and closes, the power exhaust fans will be energized and deenergized. If field-installed accessory CO₂ sensors are connected to the Econimizer control, a demand controlled ventilation strategy will begin to operate. As the CO₂ level in the zone increases above the CO₂ set point, the minimum position of the damper will be increased proportionally. As the CO₂ level decreases because of the increase in fresh air, the outdoor-air damper will be proportionally closed. Damper position will follow the higher demand condition from DCV mode or free cooling mode. Damper movement from full closed to full open (or vice versa) will take between 1 1/2 and 2 1/2 minutes. If free cooling can be used as determined from the appropriate chgover command (dry bulb, enthalpy curve, or differential enthalpy) a call for cooling (Y1) closes at the thermostat) will cause the control to modulate the dampers open to maintain the supply air temperature set point at 50° to 55°F (10° to 12.8°C). As the supply air temperature drops below the set point range of 50° to 55°F (10° to 12.8°C), the control will modulate the outdoor-air dampers closed to maintain the proper supply-air temperature.

TABLE 140.4-E AIR ECONOMIZER HIGH LIMIT SHUT OFF CONTROL REQUIREMENTS

Device Type ^a	Climate Zones	Required High Limit (Econimizer Off When):	
		Equation ^b	Description
Fixed Dry Bulb	1, 3, 5, 11-16	T _{OA} > 75°F	Outdoor air temperature exceeds 75°F
	2, 4, 10	T _{OA} > 73°F	Outdoor air temperature exceeds 73°F
	6, 8, 9	T _{OA} > 71°F	Outdoor air temperature exceeds 71°F
Differential Dry Bulb	7	T _{OA} > 69°F	Outdoor air temperature exceeds 69°F
	1, 3, 5, 11-16	T _{OA} > T _{RA} +F	Outdoor air temperature exceeds return air temperature
	2, 4, 10	T _{OA} > T _{RA} +2°F	Outdoor air temperature exceeds return air temperature minus 2°F
Fixed Enthalpy ^c + Fixed Drybulb	6, 8, 9	T _{OA} > T _{RA} +4°F	Outdoor air temperature exceeds return air temperature minus 4°F
	7	T _{OA} > T _{RA} +6°F	Outdoor air temperature exceeds return air temperature minus 6°F
	All	h _{OA} > 28 Btu/lb ^c or T _{OA} > 75°F	Outdoor air enthalpy exceeds 28 Btu/lb of dry air ^c or Outdoor air temperature exceeds 75°F

^a Only the high limit control devices listed are allowed to be used and at the setpoints listed. Others such as Dew Point, Fixed Enthalpy, Electronic Enthalpy, and Differential Enthalpy Controls, may not be used in any Climate Zone for compliance with Section 140.4(e) unless approval for use is provided by the Energy Commission Executive Director.

^b Devices with selectable (rather than adjustable) setpoints shall be capable of being set to within 2°F and 2 Btu/lb of the setpoint listed.
^c At altitudes substantially different than sea level, the Fixed Enthalpy limit value shall be set to the enthalpy value at 75°F and 50% relative humidity. As an example, at approximately 6,000 foot elevation, the fixed enthalpy limit is approximately 30.7 Btu/lb.

ATTACHMENT 3: Mechanical Equipment List

This attachment summarizes all the HVAC equipment and controls required for each size modular building.

Indicate NA for all non-applicable boxes.

Modular size and equipment type	LIST OF MECHANICAL EQUIPMENT			Responsible for programming/commissioning (builder or HVAC contractor)
	4.0 TON WM HVAC	5.0 TON WM HVAC	3 TON WM HVAC	
Any substitutions of equipment made to the approved PC must be equal or better than the equipment listed below.				
HVAC Equipment Make and Model	BARO W48HC-A	BARO W60H1	BARO W36 HB	NA
BTUH Heating Cooling	41,500 45,500	51,000 55,500	38,500 40,000	NA
Indoor/Blower Fan BHP/HP CFM @ at 7 inch WC	1/3-825-2 2.5 24"-2900	1/3-825-2 4.1 24"-3700	1/3-825-2 2.5 24"-2900	NA
Strip Heating Maximum allowed or Not Allowed if not modeled	PER TITLE 24	PER TITLE 24	PER TITLE 24	NA
Minimum allowed SEER, EER, HSPF and/or COP, and Phase	14, 11, 3,40, 3	14, 11, 3,30, 3	14, 11, 3,40, 3	NA
Thermostat Make and Model Setback – § 110.2(c) Heat Pumps – § 110.2(b)	BARO #8403-061 C48H1	BARO #8403-061 C60H1	BARO #8403-061 C42H1	(Responsible Person) Required Acceptance Test NRCA-MCH-03-A
Shut-off and Reset Make and Model Occupancy Sensor or 4 hr override – § 120.2(e)	STANDARD BUILT-IN	STANDARD BUILT-IN	STANDARD BUILT-IN	(Responsible Person) Required Acceptance Test NRCA-MCH-03-A
Econimizer Equipment Make and Model – § 140.4(e)	ECON-NC5	ECON-NC5	ECON-NC5	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A and 05-A
Econimizer Controls Make and Model – § 140.4(e)	ECON-WD5	ECON-WD5	ECON-WD5	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A and 05-A
Econimizer Fault Detection Software Make and Model – § 120.2(i)	ECON-DB5	ECON-DB5	ECON-DB5	(Responsible Person) Required Acceptance Test NRCA-MCH-12-A or 13-A
Outside Air In CFM – § 120.1(c)3	PER TITLE 24	PER TITLE 24	PER TITLE 24	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
Ventilation Kit If econimizer is not installed specify Make and Model.	N/A	N/A	N/A	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
Demand Control Ventilation Co2 Sensor with ppm display Make and Model – § 120.1(d)4	PER BARD SPECIFICATIONS	PER BARD SPECIFICATIONS	PER BARD SPECIFICATIONS	(Responsible Person) Required Acceptance Test NRCA-MCH-06-A
Minimum Designed Outside Air In CFM – § 120.1(c)3	PER TITLE 24	PER TITLE 24	PER TITLE 24	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
Demand Shed Thermostat Make Model If DDC to the zone § 120.2(h)				(Responsible Person) Required Acceptance Test NRCA-MCH-11-A

NOTE: SEE M.O.1 AND CUT SHEETS FOR ADDITIONAL EQUIPMENT OPTIONS

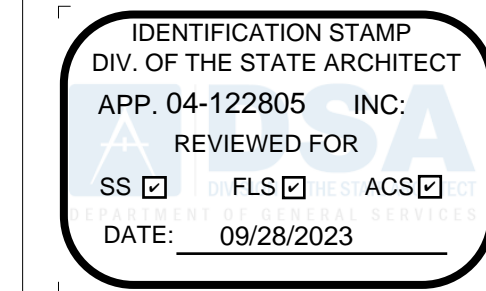
ALL ECONOMIZERS MUST BE PROGRAMMED IN THE FIELD BY THE HVAC CONTRACTOR TO THE TEMPERATURE IN TABLE 140.4-E

PC DESIGN REVIEW INFORMATION
Title 24, Part 6, Energy Code
DSA Application #: 04-121369
Calculation Date/Time of Energy Report: 2023-07-26 08:58:00
Model Name and Option: 24x40' PC (Wood Frame Walls)
Floor Area: 3600 Ft²
HVAC System Type: Wall Mounted A/C

Climate Zone 14 (Palmbeach)						
Asimuth (Front Orientation)	Standard Design	Proposed Design	Margin	Margin %	Worst Case	
30°	TDV-E	366.40	297.14	69.26	18.902%	**
	TDV-T	366.40	297.14	69.26	18.902%	**
	SOURCE	36.24	30.65	5.59	15.424%	**
75°	TDV-E	338.22	295.30	43.92	12.985%	**
	TDV-T	338.22	295.30	43.92	12.985%	**
	SOURCE	35.43	30.56	5.07	14.299%	**
120°	TDV-E	363.42	298.43	67.04	18.444%	**
	TDV-T	363.42	298.43	67.04	18.444%	**
	SOURCE	38.81	30.68	8.13	20.925%	**
165°	TDV-E	366.40	297.42	69.04	18.837%	**
	TDV-T	366.40	297.42	69.04	18.837%	**
	SOURCE	36.24	30.65	5.59	15.424%	**
210°	TDV-E	366.40	297.42	69.04	18.837%	**
	TDV-T	366.40	297.42	69.04	18.837%	**
	SOURCE	36.24	30.65	5.59	15.424%	**
300°	TDV-E	338.22	295.30	43.92	12.985%	**
	TDV-T	338.22	295.30	43.92	12.985%	**
	SOURCE	35.43	30.56	5.07	14.299%	**
Climate Zone 15 (Palm Springs)						
30°	TDV-E	378.53	303.65	74.86	19.772%	**
	TDV-T	378.53	303.65	74.86	19.772%	**
	SOURCE	39.29	30.77	8.52	21.452%	**
75°	TDV-E	369.92	301.77	68.15	18.425%	**
	TDV-T	369.92	301.77	68.15	18.425%	**
	SOURCE	32.57	28.50	4.02	12.343%	**
120°	TDV-E	370.43	302.74	67.69	18.273%	**
	TDV-T	370.43	302.74	67.69	18.273%	**
	SOURCE	32.71	28.64	4.07	12.426%	**
165°	TDV-E	378.53	303.43	74.99	19.816%	**
	TDV-T	378.53	303.43	74.99	19.816%	**
	SOURCE	38.81	30.68	8.13	20.925%	**
210°	TDV-E	378.53	303.65	74.86	19.772%	**
	TDV-T	378.53	303.65	74.86	19.772%	**
	SOURCE	38.81	30.68	8.13	20.925%	**
300°	TDV-E	369.92	301.77	68.15	18.425%	**
	TDV-T	369.92	301.77	68.15	18.425%	**
	SOURCE	32.57	28.50	4.02	12.343%	**
345°	TDV-E	370.43	302.74	67.69	18.273%	**
	TDV-T	370.43	302.74	67.69	18.273%	**
	SOURCE	32.71	28.64	4.07	12.426%	**
Climate Zone 16 (Blue Canyon)						
30°	TDV-E	307.24	278.52	28.72	9.347%	**
	TDV-T	307.24	278.52	28.72	9.347%	**
	SOURCE	54.83	41.03	13.78	25.142%	**
75°	TDV-E	341.77	272.69	69.08	20.212%	**
	TDV-T	341.77	272.69	69.08	20.212%	**
	SOURCE	65.39	40.97	24.42	37.345%	**
120°	TDV-E	307.35	273.40	33.95	11.046%	**
	TDV-T	307.35	273.40	33.95	11.046%	**
	SOURCE	54.88	41.03	13.87	25.273%	**
165°	TDV-E	309.02	273.26	35.76	11.572%	**
	TDV-T	309.02	273.26	35.76	11.572%	**
	SOURCE	54.91	41.02	13.89	25.299%	**
210°	TDV-E	307.24	273.24	34.02	11.121%	**
	TDV-T	307.24	273.24	34.02	11.121%	**
	SOURCE	54.83	40.99	13.84	25.123%	**
300°	TDV-E	341.77	272.69	69.08	20.212%	**
	TDV-T	341.77	272.69	69.08	20.212%	**
	SOURCE	65.39	40.97	24.42	37.345%	**
345°	TDV-E	307.35	273.40	33.95	11.046%	**
	TDV-T	307.35	273.40	33.95	11.046%	**
	SOURCE	54.88	41.03	13.87	25.273%	**

Reference: Energy Code, Appendix 6.1a Tables 6.1.1 to 6.1.4
** In the event that there are identical percentages, select one.
** This table is not currently generated by the energy software.
Least Compliance Margin Orientation

PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP



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CLIENT



BUILDING ENERGY ANALYSIS REPORT

PROJECT:
24X40 (PC 04-121369) - Wall AC
Climate Zone 14
Palmdale, CA

Project Designer:
R & S TAVARES ASSOCIATES
11590 W. Bernardo Court, Suite 100
San Diego, Ca. 92127

Report Prepared by:
LAL B. SAHGAL
LSA CONSULTING ENGINEERS
83, WINDSWEPT WAY
MISSION VIEJO, CA 92692
(949) 830-4746

Job Number:
7/26/2023

Date:
7/26/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards. This program developed by EnergySoft, LLC - www.energysoft.com.

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HVAC System Heating and Cooling Loads Summary	20

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 1 of 17)

Project Name:		24X40 (PC 04-121369) - Wall AC	Date Prepared:		2023-07-25
---------------	--	--------------------------------	----------------	--	------------

A. General Information

1	Project Name	24X40 (PC 04-121369) - Wall AC			
2	Run Title	Title 24 Analysis			
3	Project Location	Climate Zone 14			
4	City	Palmdale	5	Standards Version	Compliance 2022
6	Zip code	99999	7	Compliance Software (version)	EnergyPro 9.1
8	Climate Zone	14	9	Building Orientation (deg)	75
10	Building Type(s)	• Nonresidential	11	Weather File	PALMDALE_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	960	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	960	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 2 of 17)

B. PROJECT SUMMARY
Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively				
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	<input type="checkbox"/> Not Included	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E.)	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	<input type="checkbox"/> Not Included	NRCC-LTI-E is required	
	Multifam	Not Included	Covered Process: Commercial Kitchens (see Table J)	<input type="checkbox"/> Not Included		Outdoor Lighting 140.7 & 170.2(e)	<input checked="" type="checkbox"/> Not Included	NRCC-LTO-E is required	
Mechanical (See Table H)	Nonres	Performance	Covered Process: Laboratory Exhaust (see Table J)	<input type="checkbox"/> Not Included	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	Sign Lighting 140.8 & 170.2(e)	<input type="checkbox"/> Not Included	NRCC-LTS-E is required	
	Multifam	Not Included		<input checked="" type="checkbox"/> Not Included		Building Components Complying with Mandatory Measures	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	Electrical Power Distribution 110.11	<input type="checkbox"/> Not Included
Domestic Hot Water (See Table I)	Nonres	Not Included	Photovoltaics (see Table F)	<input type="checkbox"/> Not Included	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	Commissioning 120.8	<input type="checkbox"/> Not Included	NRCC-CXR-E is required	
	Multifam	Not Included		<input checked="" type="checkbox"/> Not Included		Solar and Battery 110.10	<input checked="" type="checkbox"/> Not Included	NRCC-SAB-E is required	

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 3 of 17)

C1. COMPLIANCE SUMMARY

	COMPLIES ¹		Source Energy Use	
	Efficiency ² (kBtu/ft ² -yr)	Total ² (kBtu/ft ² -yr)	Total ² (kBtu/ft ² -yr)	
Standard Design	358.72	358.72	30.7	
Proposed Design	295.31	295.31	25.64	
Compliance Margins	63.41	63.41	5.06	
	Pass	Pass	Pass	

¹ Efficiency measures include improvements like a better building envelope and more efficient equipment
² Compliance Totals include efficiency, photovoltaics and batteries
³ Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 4 of 17)

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)

Energy Component	COMPLIES ²		
	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹
Space Heating	25.61	42	-16.39
Space Cooling	93.22	95.25	-2.03
Indoor Fans	152.65	81.72	70.93
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	54.63	54.6	0.03
Indoor Lighting	32.61	21.74	10.87
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	358.72	295.31	63.41 (17.7%)
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	358.72	295.31	63.41 (17.7%)

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

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 6 of 17)

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft²-yr)

Energy Component	COMPLIES ²		
	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹
Space Heating	3.73	6.14	-2.41
Space Cooling	3.47	3.65	-0.18
Indoor Fans	14.94	8.15	6.79
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	5.99	5.99	0
Indoor Lighting	2.57	1.71	0.86
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	30.7	25.64	5.06 (16.5%)
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	30.7	25.64	5.06 (16.5%)

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

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 7 of 17)

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹
Receptacle	4.92	4.92	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	35.62	30.56	5.06 (14.2%)

¹ Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

This project is pursuing CalGreen Tier 1 This project is pursuing CalGreen Tier 2

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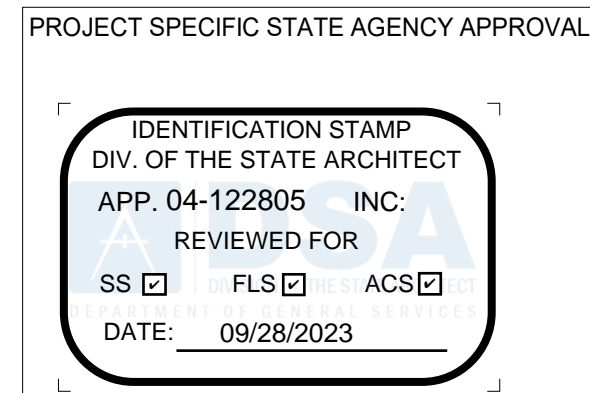
CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 8 of 17)

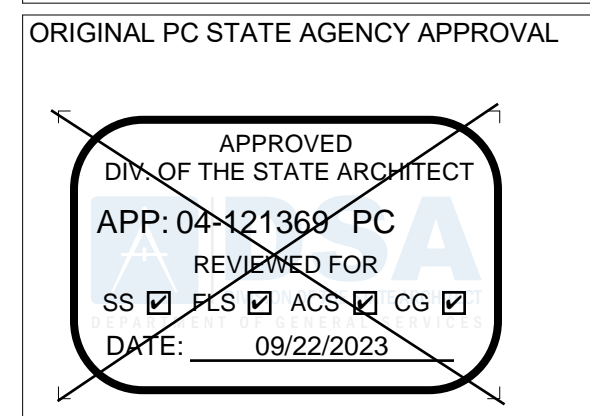
C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)
Space Heating	0.8	1.3	-0.5	---	---	---
Space Cooling	2.3	2.3	0	---	---	---
Indoor Fans	5.2	2.8	2.4	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	2	2	0	---	---	---
Indoor Lighting	1.2	0.8	0.4	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	11.5	9.2	2.3	0	0	0
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	11.5	9.2	2.3	0	0	0
Receptacle	2.5	2.5	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	14	11.7	2.3	0	0	0

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Revision Schedule		
#	Description	Date

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
24'x40' T24 CZ 14 (WALL AC)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE
06/15/2021

SHEET NO.
M2.9

SHEET OF

C:\Users\User\Documents\22088-Aries_24x40_PC - MainFile - Low Saismic_detached (2022)_CESAF24063.rvt 9/7/2023 11:16:14 AM

Standard Design (kBtu/ft ² / yr)	Proposed Design (kBtu/ft ² / yr)	Margin (kBtu/ft ² / yr)	Gross EUI ¹	
			Gross EUI ¹	NET EUI ¹
49.76	41.58	8.18	16.44	16.44
49.76	41.58	8.18	16.44	16.44

D1. EXCEPTIONAL CONDITIONS

- The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
- The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
- Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.

Opaque Surfaces & Orientation	Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Window to Wall Ratio (%)
North-Facing ¹	240	32	13.33
East-Facing ²	400	0	0
South-Facing ³	240	32	13.33
West-Facing ⁴	400	0	0
Total	1280	64	5

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01	02
Building Story Name Com-Floor 1	Air Barrier No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06	07	08	09	10
Surface Name	Construction Type	Area (ft ²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status ¹
R-19 Wood Framed Wall7	Exterior Wall	1,280	Wood	19	N/A	U-factor	0.0605	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in. Softwood - 1.5 in.	N
R-19 Metal Floor Crawlspace14	Exterior Floor	960	Metal	19	N/A	U-factor	0.0588	Vented Crawlspace Composite-2 Plywood - 1/2 in. Carpet - 3/4 in.	N
Standing Seam R-38 Metal16	Roof	960	N/A	36	N/A	U-factor	0.06	Metal Standing Seam - 1/16 in. Composite-3	N

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Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0144

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/Product Type / Frame Type	Certification Method ¹	Assembly Method	Area (ft ²)	Overall U-factor	Overall SHGC	Overall VT	Status ²
Sierra Pacific Windows	Vertical fenestration Operable window	NFRC	Manufactured	64	0.35	0.24	0.5	N
Sola tube	Skylight Fixed window N/A	NFRC	Manufactured	14	0.39	0.37	0.65	N

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Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0144

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	Qty	Design OA CFM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status ¹
AC-1	1	364.8	1,100	0.5	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n) ¹	Other Special Features and Controls
AC-1	Single Package VHP Air System	No	Zone(s) With CO2 Sensor Vent. Control Fixed DB

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Ventilation Function	Mechanical Ventilation # of People	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
1-First Floor	Education - Classrooms (ages 9-18)	24	364.8	0	960	DCV

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L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Building Component	Form/Title
Envelope	NRCH-ENV-01-E - Must be submitted for all buildings
Envelope	NRCH-ENV-E - Envelope (for all buildings)
Mechanical	NRCH-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCH-MCH-E - For all buildings with Mechanical Systems
Indoor Lighting	NRCH-LTI-01-E - Must be submitted for all buildings
Indoor Lighting	NRCH-LTI-E - Indoor Lighting (for all buildings)

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NFRC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no Certificates of Verification applicable to this project

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H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12		
System ID	System Type	Qty	Rated Capacity (kBtu/h)	Airflow (cfm)	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
1-First Floor-Trm	Uncontrolled	1	N/A	N/A	1,100	N/A	0	N/A	N/A	N/A	N/A		

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01	02	03	04	05	06
Occupancy Type ¹	Conditioned Floor Area ² (ft ²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Classroom, Lecture, or Training/Vocational	960	384	0	0	0
Building Totals:	960	384	0	0	0

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K2. INDOOR CONDITIONED LIGHTING SCHEDULE

01	02	03	04	05	06
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
L-1	2x4 LED Panel	48	According to	8	384

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-1)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Control (Watts)	Control Credit (Watts)
S-1-First Floor	Classroom, Lecture, or Training/Vocational	N/A	N/A	L-1	48	8	384	0
Lighting Control Credits (Conditioned) Total (Watts)							0	

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

01	02
Mandatory Demand Response 110.12(c)	Shut-Off Controls 130.1(c) & 160.5(b)(4)
Required	Required

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P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no Certificates of Verification applicable to this project

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-25 10:52:04
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Documentation Author's Declaration Statement

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

Documentation Author Name: LAL B. SAHGAL	Documentation Author Signature:
Company: LSA CONSULTING ENGINEERS	Signature Date:
Address: 83, WINDSWEEP WAY	CEA/HERS Certification Identification (if applicable): M26885
City/State/Zip: MISSION VIEJO, CA 92692	Phone: (949) 830-4746

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

Responsible Designer Name:	Responsible Designer Signature:
Company: R & S TAVARES ASSOCIATES	Date Signed:
Address: 11590 W. BERNARDO COURT, SUITE 100	License #: M26885
City/State/Zip: San Diego, Ca. 92127	Title:
Phone:	Scope:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-25 10:52:04
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HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Project Name	Date
24X40 (PC 04-121369) - Wall AC	7/26/2023
System Name	Floor Area
AC-1	960

ENGINEERING CHECKS	SYSTEM LOAD	COIL COOLING PEAK		COIL HTG. PEAK			
		CFM	Sensible	Latent	CFM	Sensible	
Heating System							
Output per System	33,000						
Total Output (Btu/h)	33,000						
Output (Btu/h/sqft)	34.4						
Cooling System							
Output per System	36,000						
Total Output (Btu/h)	36,000						
Total Output (Tons)	3.0						
Total Output (Btu/h/sqft)	37.5						
Total Output (sqft/Ton)	320.0						
Air System							
CFM per System	1,100						
Airflow (cfm)	1,100						
Airflow (cfm/sqft)	1.15						
Airflow (cfm/ton)	366.7						
Outside Air (%)	33.2%						
Outside Air (cfm/sqft)	0.38						
Note: values above given at ARI conditions		TIME OF SYSTEM PEAK		Jul 3 PM		Jan 1 AM	

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)

COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)

Responsible Designer Name: Lal Sahgal	Responsible Designer Signature:
Company: LSA Consulting Engineers	Date Signed:
Address: 83, WINDSWEEP WAY	License #: M26885
City/State/Zip: Mission Viejo, Ca. 92692	Title:
Phone:	Scope:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-25 10:52:04
Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0144

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/>
DATE: 09/28/2023



PROFESSIONAL STAMP
REGISTERED PROFESSIONAL ARCHITECT
MANUEL D. FRUTKIN
NO. 55386
EXP. 03/31/24
STATE OF CALIFORNIA
05/24/23
RS#220086

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©



1651 SOUTH JUANITA STREET
SAN JACINTO CA 92581
VOICE (951) 943-1908 FAX (951) 943-5768

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121369 PC
REVIEWED FOR
SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/> CG <input checked="" type="checkbox"/>
DATE: 09/22/2023

#	Description	Date
---	-------------	------

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
24'x40' T24 CZ 14
(WALL AC)

22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE
06/15/2021

SHEET NO.
M2.10

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 9 of 17) CS. ENERGY USE INTENSITY (EUI) TABLE WITH GROSS EUI, NET EUI, AND MARGINS. G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only) TABLE WITH OPAQUE SURFACES, WINDOW TO WALL RATIO, AND TOTAL FENESTRATION AREA. NOTES ON NORTH, EAST, SOUTH, WEST FACING ORIENTATIONS.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 10 of 17) G4. NONRESIDENTIAL AIR BARRIER TABLE WITH BUILDING STORY NAME AND AIR BARRIER TYPE. G5. OPAQUE SURFACE ASSEMBLY SUMMARY TABLE WITH SURFACE NAME, CONSTRUCTION TYPE, AREA, FRAMING TYPE, CAVITY R-VALUE, CONTINUOUS R-VALUE, UNITS, VALUE, DESCRIPTION OF ASSEMBLY LAYERS, AND STATUS.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 11 of 17) G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL) TABLE WITH FENESTRATION ASSEMBLY NAME, TYPE, METHOD, MANUFACTURED, AREA, OVERALL U-FACTOR, OVERALL SHGC, OVERALL VT, AND STATUS. H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.) TABLE WITH EQUIPMENT NAME, TYPE, QTY, HEATING/Cooling OUTPUT, EFFICIENCY, AND STATUS.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 12 of 17) H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY TABLE WITH FAN NAME, QTY, DESIGN OA CFM, POWER, CONTROL, FAN TYPE, RETURN / RELIEF FAN, STATUS. H8. SYSTEM SPECIAL FEATURES TABLE WITH SYSTEM NAME, EQUIPMENT TYPE, INTERLOCKS, OTHER SPECIAL FEATURES AND CONTROLS. H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION TABLE WITH ZONE NAME, MECHANICAL VENTILATION, EXHAUST CFM, CONDITIONED AREA, DCV OR OCCUPANT SENSOR CONTROLS.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 13 of 17) H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY TABLE WITH SYSTEM ID, TYPE, QTY, RATED CAPACITY, AIRFLOW, FAN, VSD. K1. INDOOR CONDITIONED LIGHTING GENERAL INFO TABLE WITH OCCUPANCY TYPE, FLOOR AREA, INSTALLED LIGHTING POWER, LIGHTING CONTROL CREDITS, ADDITIONAL ALLOWANCE. K2. INDOOR CONDITIONED LIGHTING SCHEDULE TABLE WITH LUMINAIRE SCHEDULE, NAME OR ITEM TAG, QTY, TOTAL HEATING/Cooling OUTPUT, EFFICIENCY, COP, STATUS. K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS TABLE WITH LIGHTING CONTROL CREDITS SCHEDULE, AREA DESCRIPTION, PRIMARY FUNCTION AREA, TYPE OF LIGHTING CONTROL, POWER ADJUSTMENT FACTOR, LUMINAIRE ITEM TAG, WATTS PER LUMINAIRE, # OF LUMINAIRES, LIGHTING CONTROLLED, CONTROL CREDIT.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 14 of 17) K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL TABLE WITH BUILDING LEVEL CONTROLS, MANDATORY DEMAND RESPONSE, SHUT-OFF CONTROLS. HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY TABLE WITH PROJECT NAME, DATE, SYSTEM NAME, FLOOR AREA, ENGINEERING CHECKS, SYSTEM LOAD, COIL COOLING PEAK, COIL HTG. PEAK, AIR SYSTEM, HVAC EQUIPMENT SELECTION, HEATING SYSTEM PSYCHROMETRICS, COOLING SYSTEM PSYCHROMETRICS.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 15 of 17) L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION. M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE. N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 16 of 17) Documentation Author's Declaration Statement. Responsible Person's Declaration Statement. Responsible Designer Name, Signature, Date, License #, Title, Scope.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 17 of 17) Responsible Designer Name, Signature, Date, License #, Title, Scope. HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY TABLE WITH PROJECT NAME, DATE, SYSTEM NAME, FLOOR AREA, ENGINEERING CHECKS, SYSTEM LOAD, COIL COOLING PEAK, COIL HTG. PEAK, AIR SYSTEM, HVAC EQUIPMENT SELECTION, HEATING SYSTEM PSYCHROMETRICS, COOLING SYSTEM PSYCHROMETRICS.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601 Report Generated: 2023-07-25 10:57:22 Compliance ID: EnergyPro-4958-0723-0145

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601 Report Generated: 2023-07-25 10:57:22 Compliance ID: EnergyPro-4958-0723-0145

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601 Report Generated: 2023-07-25 10:57:22 Compliance ID: EnergyPro-4958-0723-0145

PROJECT SPECIFIC STATE AGENCY APPROVAL IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-122805 INC. REVIEWED FOR SS FLS ACS DATE: 09/28/2023. R&S TAVARES ASSOCIATES DESIGN & CONSULTING PROJECT MEET 11500 W. BERNARDO COURT, SUITE 100 SAN DIEGO, CA 92127 PHONE: (619) 444-3344 WWW.RSTAVARES.COM. PROFESSIONAL STAMP REGISTERED PROFESSIONAL ARCHITECT MARY D. FRANKLIN No. 53386 Exp. 03/31/24 STATE OF CALIFORNIA 05/24/23. THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEPOSED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. CLIENT CLASS LEASING LLC 1221 Harley Knox Boulevard Perris, CA 92571 ORIGINAL PC STATE AGENCY APPROVAL APPROVED DIV. OF THE STATE ARCHITECT APP. 04-121369 PC REVIEWED FOR SS FLS ACS CG DATE: 09/22/2023. Revision Schedule # Description Date. PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'. SHEET TITLE 24'x40' T24 CZ 15 (WALL AC). PROJECT NUMBER 22088 DRAWN BY rMc/CG CHECKED BY RH/RT DATE 06/15/2021 SHEET NO. M2.12 SHEET OF

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BUILDING ENERGY ANALYSIS REPORT

PROJECT:
24X40 (PC 04-121369) - Wall AC
Climate Zone 16
Blue Canyon, CA

Project Designer:
R & S TAVARES ASSOCIATES
11590 W. Bernardo Court, Suite 100
San Diego, Ca. 92127

Report Prepared by:
LAL B. SAHGAL
LSA CONSULTING ENGINEERS
83, WINDSWEPT WAY
MISSION VIEJO, CA 92692
(949) 830-4746

Job Number:

Date:
7/26/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards. This program developed by EnergySoft, LLC - www.energysoft.com.

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HVAC System Heating and Cooling Loads Summary	20

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E
Nonresidential Performance Compliance Method (Page 1 of 17)

Project Name:	24X40 (PC 04-121369) - Wall AC	Date Prepared:	2023-07-26
A. General Information			
1 Project Name	24X40 (PC 04-121369) - Wall AC		
2 Run Title	Title 24 Analysis		
3 Project Location	Climate Zone 16		
4 City	Blue Canyon	5 Standards Version	Compliance 2022
6 Zip code	91999	7 Compliance Software (version)	EnergyPro 9.1
8 Climate Zone	16	9 Building Orientation (deg)	30
10 Building Type(s)	• Nonresidential	11 Weather File	BLUE-CANYON_STYP20.epw
12 Project Scope	• New complete scope	13 Number of Dwelling Units	0
14 Total Conditioned Floor Area in Scope (ft²)	960	15 Total # of hotel/motel rooms	0
16 Total Unconditioned Floor Area (ft²)	0	17 Fuel Type	Natural gas
18 Nonresidential Conditioned Floor Area	960	19 Total # of Stories (Habitable Above Grade)	1
20 Residential Conditioned Floor Area	0		

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48
Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0170

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E
Nonresidential Performance Compliance Method (Page 2 of 17)

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E
Nonresidential Performance Compliance Method (Page 3 of 17)

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E
Nonresidential Performance Compliance Method (Page 4 of 17)

B. PROJECT SUMMARY
Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance				Building Components Complying Prescriptively			
Envelope (See Table G)	Nonres MultiFam	Performance Not Included	Solar Thermal Water Heating (See Table I3)	<input type="checkbox"/> Performance Not Included	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E.)		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	<input type="checkbox"/> Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required	
	MultiFam	Not Included		<input checked="" type="checkbox"/> Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required	
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	<input type="checkbox"/> Performance	Sign Lighting 140.8 & 170.2(e)		
	MultiFam	Not Included		<input checked="" type="checkbox"/> Not Included	Building Components Complying with Mandatory Measures		
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	<input type="checkbox"/> Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)		
	MultiFam	Not Included		<input checked="" type="checkbox"/> Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required	
			Battery (see Table F)	<input type="checkbox"/> Performance	Commissioning 120.8	NRCC-CXB-E is required	
				<input checked="" type="checkbox"/> Not Included	Solar and Battery 110.10	NRCC-SAB-E is required	

C1. COMPLIANCE SUMMARY

	COMPLIES ¹		
	Time Dependent Valuation (TDV)		Source Energy Use
	Efficiency ² (kBtu/ft ² - yr)	Total ³ (kBtu/ft ² - yr)	Total ³ (kBtu/ft ² - yr)
Standard Design	307.23	307.23	49.92
Proposed Design	273.51	273.51	36.13
Compliance Margins	33.72	33.72	13.79
	Pass	Pass	Pass

¹ Efficiency measures include improvements like a better building envelope and more efficient equipment
² Compliance Totals include efficiency, photovoltaics and batteries
³ Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

Energy Component	COMPLIES ¹		
	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹
Space Heating	51.5	114.86	-63.36
Space Cooling	19.06	18.57	0.49
Indoor Fans	169.42	83.19	86.23
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	36.19	36.19	0
Indoor Lighting	31.06	20.7	10.36
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	307.23	273.51	33.72 (11%)
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	307.23	273.51	33.72 (11%)

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

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48
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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48
Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0170

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48
Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0170

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E
Nonresidential Performance Compliance Method (Page 6 of 17)

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E
Nonresidential Performance Compliance Method (Page 7 of 17)

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E
Nonresidential Performance Compliance Method (Page 8 of 17)

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

Energy Component	COMPLIES ¹		
	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹
Space Heating	16.26	11.75	4.51
Space Cooling	1.3	1.31	-0.01
Indoor Fans	16.75	8.32	8.43
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	13.04	13.04	0
Indoor Lighting	2.57	1.71	0.86
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	49.92	36.13	13.79 (27.6%)
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	49.92	36.13	13.79 (27.6%)

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

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹
Receptacle	4.92	4.92	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	54.84	41.05	13.79 (25.1%)

¹ Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

This project is pursuing CalGreen Tier 1 This project is pursuing CalGreen Tier 2

C7. ENERGY USE SUMMARY

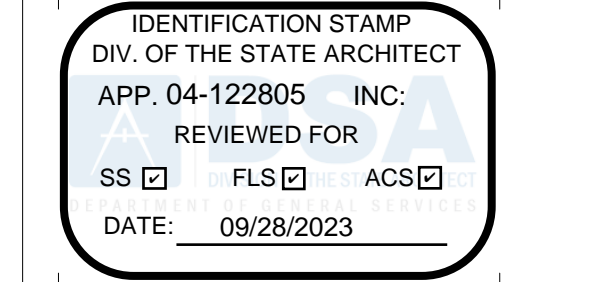
Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.1	3	-2.9	16.4	---	---
Space Cooling	0.8	0.7	0.1	---	---	---
Indoor Fans	5.6	2.8	2.8	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	13.6	13.6	0
Indoor Lighting	1.2	0.8	0.4	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	7.7	7.3	0.4	30	13.6	16.4
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	7.7	7.3	0.4	30	13.6	16.4
Receptacle	2.5	2.5	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	10.2	9.8	0.4	30	13.6	16.4

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48
Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0170

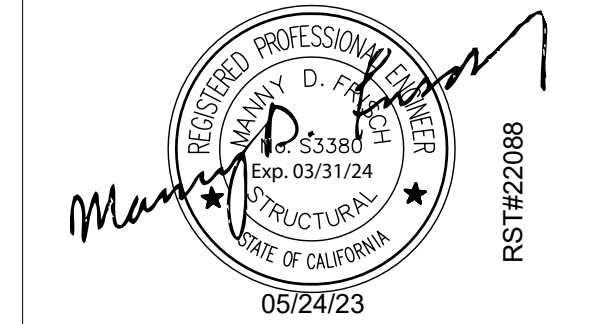
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48
Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0170

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48
Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0170

PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP



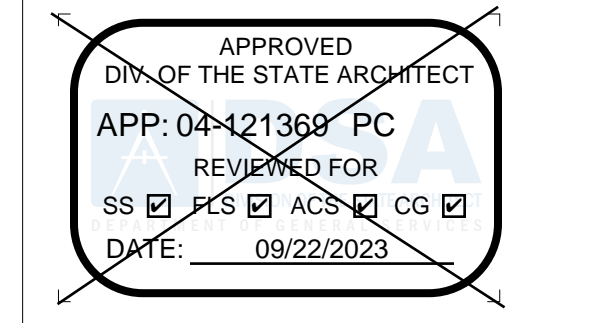
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CLIENT



1651 SOUTH JUANITA STREET
SAN JACINTO CA. 92581
VOICE (951) 943-1908 FAX (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule		
#	Description	Date

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC

A separate project application for construction is required

PROJECT TITLE
**PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'**

SHEET TITLE
**24'x40' T24 CZ 16
(WALL AC)**

PROJECT NUMBER
22088

DRAWN BY
Author

CHECKED BY
Checker

DATE
06/15/2021

SHEET NO.
M2.13

SHEET OF

C:\Users\User\Documents\2018B-Aries_24x40 PC - MainFile - Low Salsimc_detached (2022)_CESAR24D63.rvt 9/7/2023 11:16:17 AM

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 9 of 17)

Table with 5 columns: Standard Design (kBtu/ft² / yr), Proposed Design (kBtu/ft² / yr), Margin (kBtu/ft² / yr), Margin Percentage, and Gross EUI¹. Values include 67.5, 49, 18.5, 27.41, and 67.5.

D1. EXCEPTIONAL CONDITIONS
The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met.

Table with 4 columns: Opaque Surfaces & Orientation, Total Gross Surface Area (ft²), Total Fenestration Area (ft²), and Window to Wall Ratio (%). Values include 400, 0, 13.33, and 1.46.

Notes:
¹North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW).

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48 Compliance ID: EnergyPro-4958-0723-0170

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 10 of 17)

Table with 2 columns: Building Story Name and Air Barrier. Values include Com-Floor 1 and No air barrier.

Table with 10 columns: Surface Name, Construction Type, Area (ft²), Framing Type, Cavity R-Value, Continuous R-Value, Units, Value, Description of Assembly Layers, and Status¹. Rows include R-19 Wood Framed Wall7, R-19 Metal Floor Crawlspace14, and Standing Seam R-38 Metal16.

¹ Status: N - New, A - Altered, E - Existing

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48 Compliance ID: EnergyPro-4958-0723-0170

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 11 of 17)

Table with 9 columns: Fenestration Assembly Name, Fenestration Type/Product/Frame Type, Certification Method¹, Assembly Method, Area (ft²), Overall U-factor, Overall SHGC, Overall VT, and Status². Rows include Sierra Pacific Windows and Solo tube.

¹ Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification.

Table with 12 columns: Equipment Name, Equipment Type, Qty, Heating (Total Heating Output, Supp Heat Output, Efficiency Unit, Efficiency), Cooling (Total Cooling Output, Efficiency Unit, Efficiency), and Status¹. Rows include AC-1 Single Package VHP Air System.

¹ Status: N - New, A - Altered, E - Existing

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48 Compliance ID: EnergyPro-4958-0723-0170

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 12 of 17)

Table with 13 columns: Name or Item Tag, Qty, Design OA CFM, Power, Power Units, Control, Fan Type, CFM, Power, Power Units, Control, and Status¹. Row includes AC-1 with 1 unit and 364.8 CFM.

¹ Status: N - New, A - Altered, E - Existing

Table with 4 columns: System Name, Equipment Type, Interlocks per 140.4(n)¹, and Other Special Features and Controls. Row includes AC-1 Single Package VHP Air System.

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

Table with 7 columns: Zone Name, Ventilation Function, # of People, Supply OA CFM, Exhaust CFM, Conditioned Area (sf), and DCV or Occupant Sensor Controls, or Both. Row includes 1-First Floor with Education - Classrooms.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48 Compliance ID: EnergyPro-4958-0723-0170

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 13 of 17)

Table with 12 columns: System ID, System Type, Qty, Heating, Cooling, Design, Min., Min. Ratio, Power, Power Units, Cycles, and VSD. Row includes 1-First Floor-Trm Uncontrolled.

Table with 6 columns: Occupancy Type², Conditioned Floor Area² (ft²), Installed Lighting Power (Watts), Lighting Control Credits (Watts), Area Category Footnotes (Watts), and Area Category Footnotes (Watts). Row includes Classroom, Lecture, or Training Vocational.

² See Table 140.6-C. ³ See NRCC-LTI-E for unconditioned spaces. ⁴ Lighting information for existing spaces modeled is not included in this table.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48 Compliance ID: EnergyPro-4958-0723-0170

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 14 of 17)

Table with 6 columns: Name or Item Tag, Qty, Heating (Total Heating Output, Supp Heat Output, Efficiency Unit, Efficiency), Cooling (Total Cooling Output, Efficiency Unit, Efficiency), and Status¹. Row includes L-1 2x4 LED Panel.

¹ Lighting power densities were used in the compliance model. Building Departments will need to check prescriptive forms for Luminaire Schedule details.

Table with 9 columns: Area Description, Primary Function Area (must meet requirements of Table 140.6-A and 170.2-1), Type of Lighting Control, Power Adjustment Factor (PAF), Luminaire Item Tag, Watts per Luminaire, # of Luminaires, Lighting Controlled (Watts), and Control Credit (Watts). Row includes S-1-First Floor Classroom, Lecture, or Training Vocational.

Table with 2 columns: Building Level Controls and Mandatory Control Response 110.12(c). Rows include Required and Shut-Off Controls 130.1(c) & 160.5(b)4C.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48 Compliance ID: EnergyPro-4958-0723-0170

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 15 of 17)

Table with 2 columns: Building Component and Form/Title. Rows include Envelope, Mechanical, and Indoor Lighting.

Table with 2 columns: Building Component and Form/Title. Rows include Envelope, Indoor Lighting, Mechanical, and Mechanical.

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48 Compliance ID: EnergyPro-4958-0723-0170

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 16 of 17)

Documentation Author's Declaration Statement
I, I certify that this Certificate of Compliance documentation is accurate and complete.

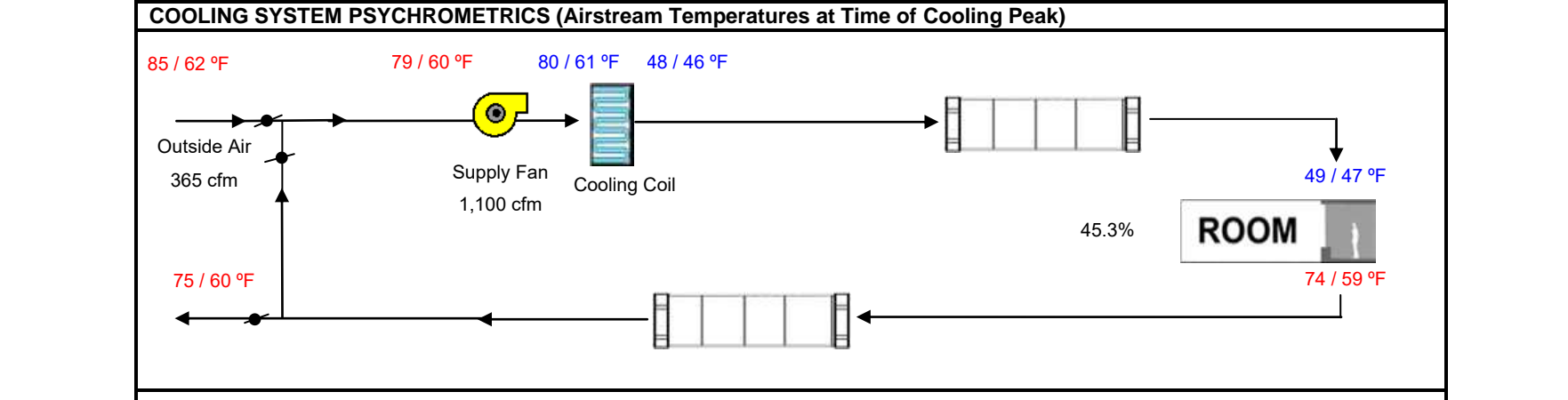
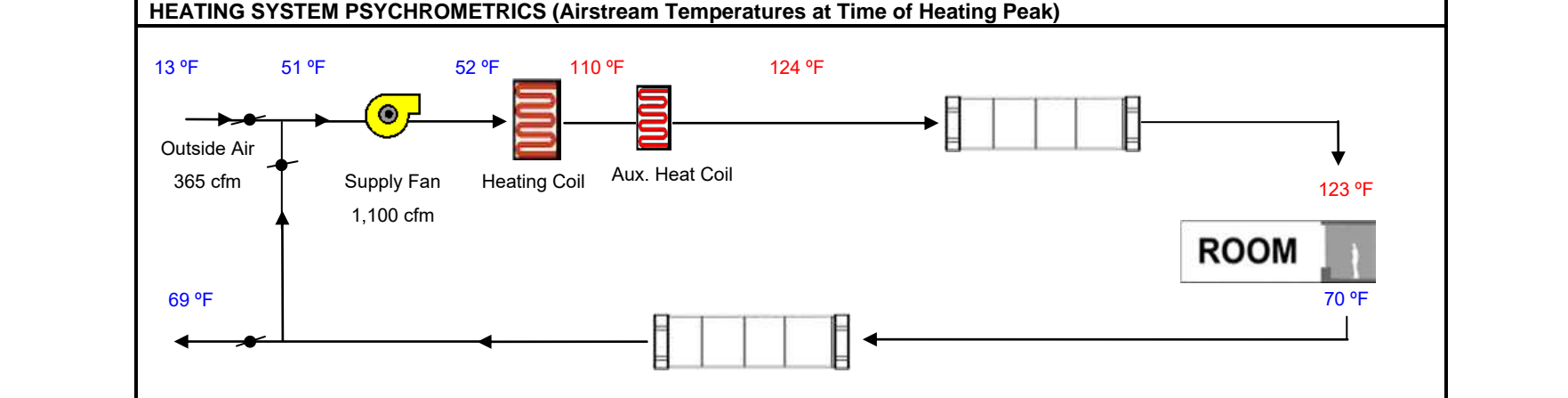
Responsible Person's Declaration Statement
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.

Responsible Designer Name: Lal Sahgal
Company: R & S Tavares Associates
Address: 11590 W. Bernardo Court, Suite 100
City/State/Zip: San Diego, Ca. 92127

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48 Compliance ID: EnergyPro-4958-0723-0170

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY
Project Name: 24X40 (PC-04-121369) - Wall AC
Date: 7/26/2023
System Name: AC-1
Floor Area: 960

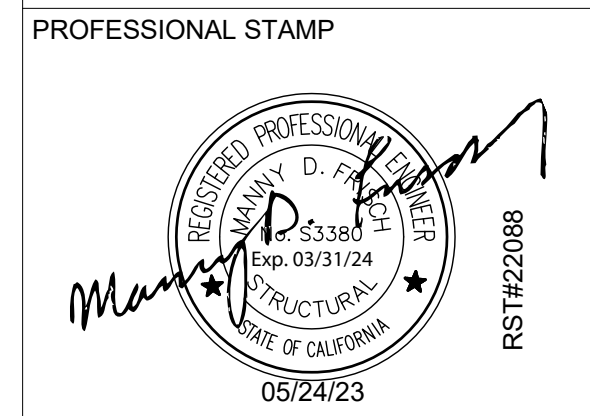
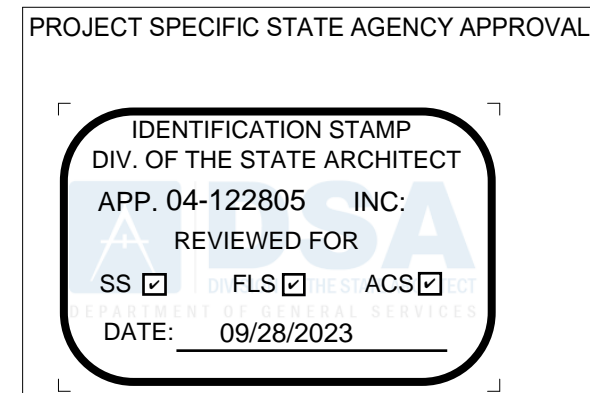
Table with columns: ENGINEERING CHECKS, SYSTEM LOAD, COIL COOLING PEAK, COIL HTG. PEAK, and HVAC EQUIPMENT SELECTION. Rows include Heating System, Cooling System, Total Room Loads, and Air System.



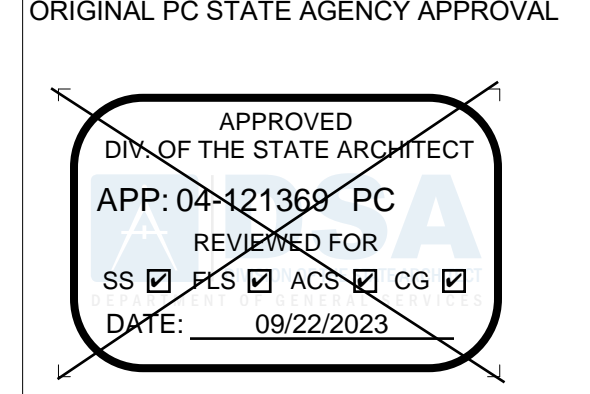
CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 17 of 17)

Responsible Designer Name: Lal Sahgal
Company: LSA Consulting Engineers
Address: 83, Windswept Way
City/State/Zip: Mission Viejo, Ca. 92692

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-26 13:02:48 Compliance ID: EnergyPro-4958-0723-0170



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Revision Schedule # Description Date
PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A separate project application for construction is required

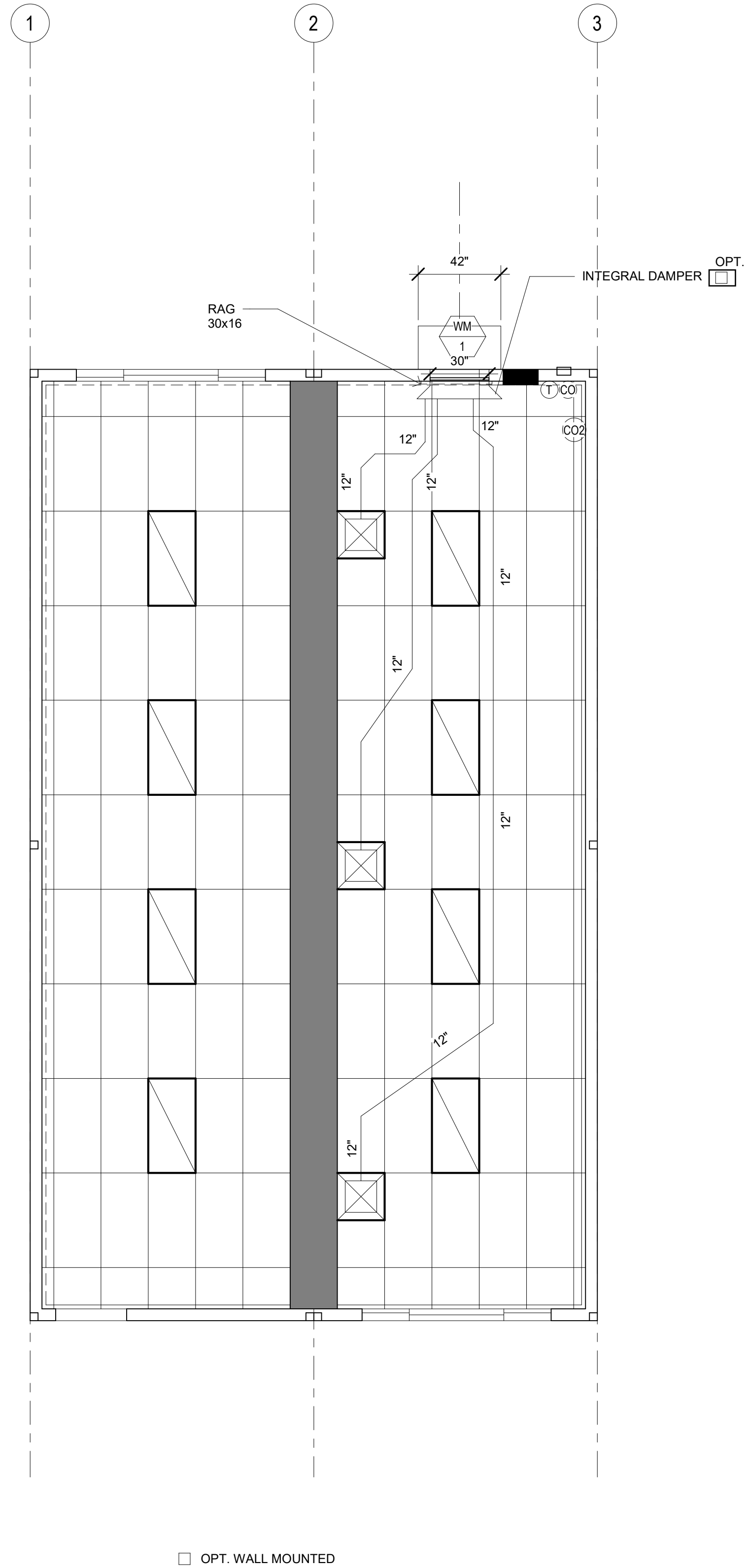
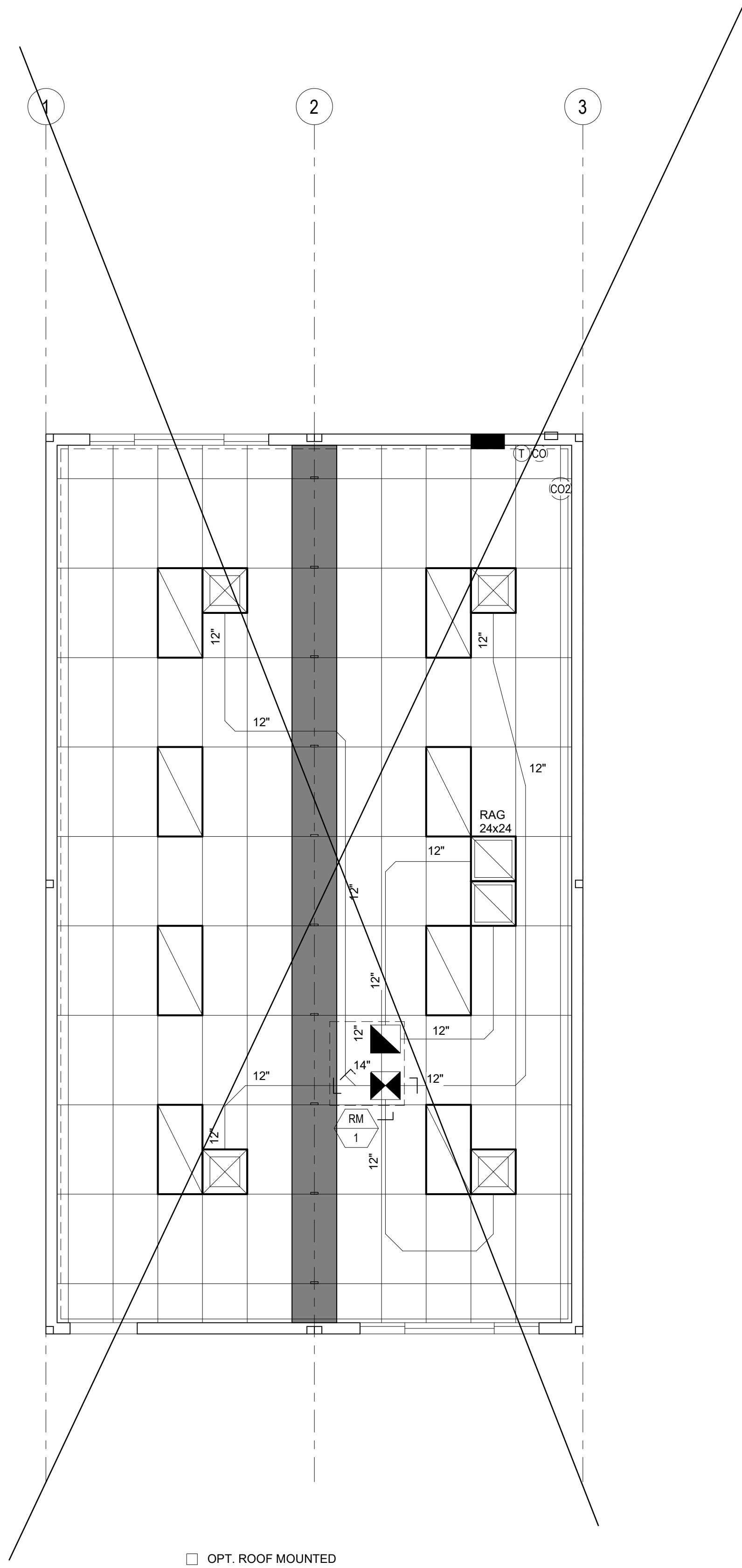
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PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
24'x40' T24 CZ 16 (WALL AC)

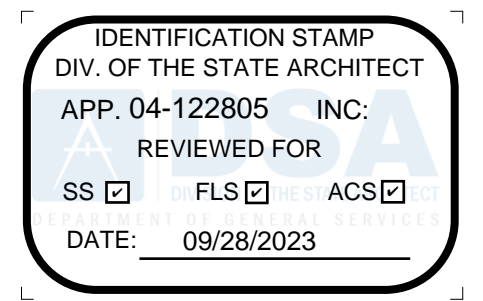
PROJECT NUMBER 22088
DRAWN BY Author
CHECKED BY Checker
DATE 06/15/2021
SHEET NO. M2.14 SHEET OF

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PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP

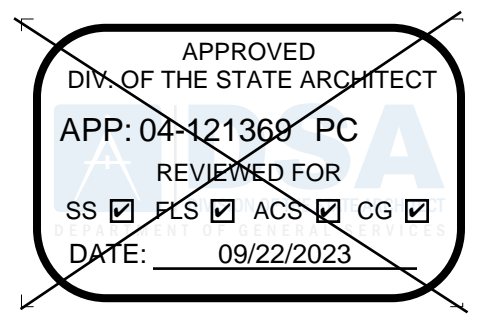


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ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
MECHANICAL
CEILING PLAN
24x40

PROJECT NUMBER
22088

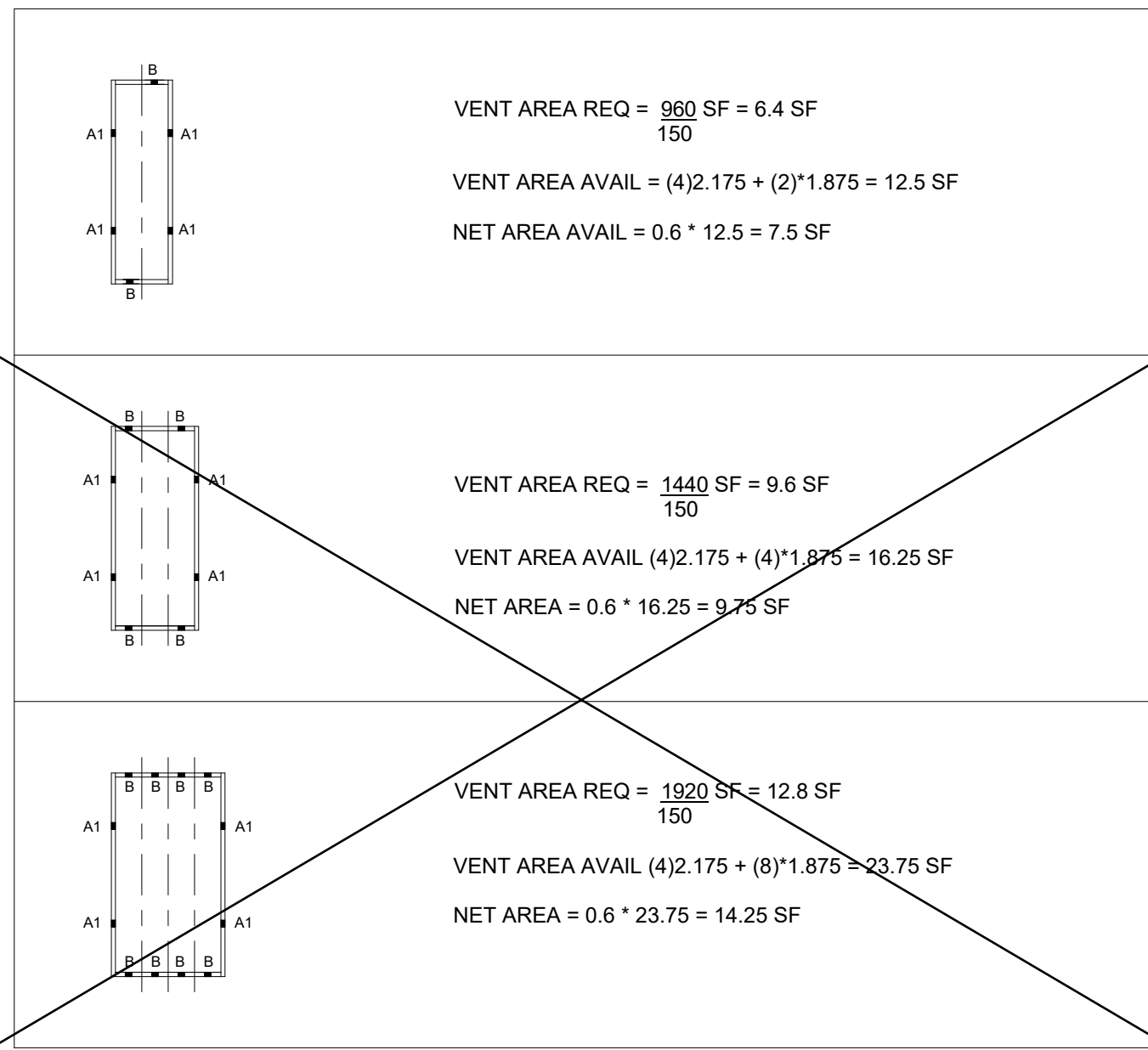
DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
M5.1

SHEET OF



NOTE: WOOD FOUNDATION EXPANDABLE TO 48x40

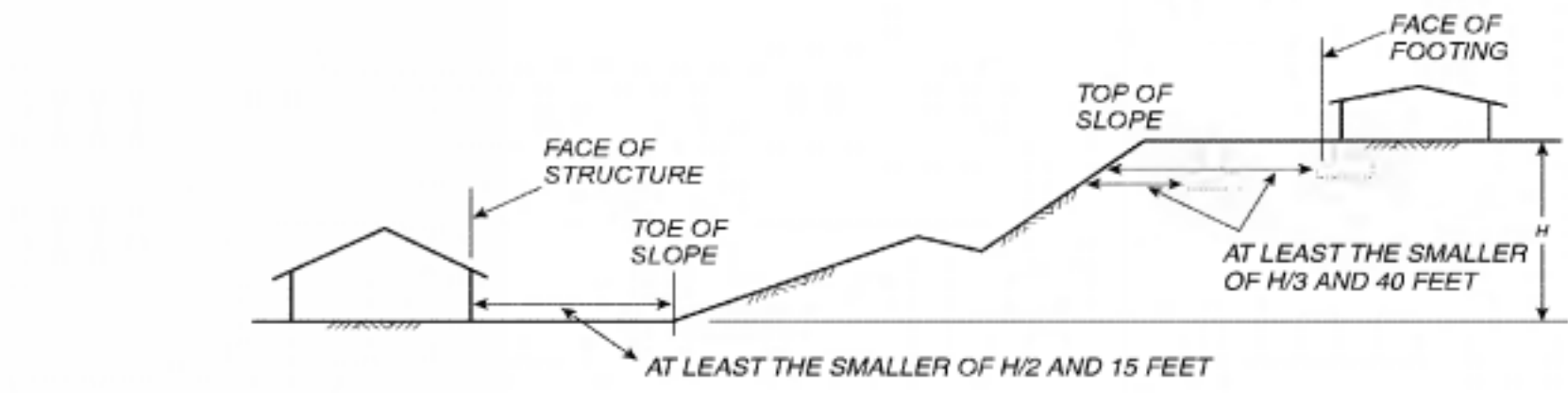


FIGURE 1808.7.1
 FOUNDATION CLEARANCES FROM SLOPES

- WOOD FOUNDATION CONSTRUCTION IS ALLOWED FOR BUILDINGS WITH 2160 AND UNDER.
- SILL PLATES SHALL BE OF FOUNDATION GRADE REDWOOD OR PRESERVATIVE PRESURE TREATED MATERIAL AND IS ALLOWED TO REST DIRECTLY ON SOIL PAVEMENT. MATERIALS ABOVE THE SILL PLATES ARE NOT CONTROLLED BY REQUIREMENT.
- VENTS THAT OCCUR INSIDE RAMP BOUNDARIES SHALL REQUIRE A VENT OF EQUAL SIZE AT RAMP SKIRTING.
- TO PREVENT SLIDING, A 1 INCH G.S. SCHEDULE 40 PIPE (1.315" ACTUAL O.D.) SHALL BE ATTACHED TO SILL PLATE AND ANCHORED INTO THE EARTH W/ 12" MIN EMBEDMENT (PROJECTED VERTICALLY) @ 10' - 0" MAX O.C. AND SHALL BE LOCATED A MAXIMUM OF 2'-0" FROM CORNERS
- STACKED FOUNDATION MEMBERS SHALL BE FASTENED TO ONE ANOTHER W/ CORROSION RESISTANT NAILS.
- WOOD FOUNDATION HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 1,000 PSF IN ABSENSE OF A SOILS INVESTIGATION REPORT PROVIDED BY A LICENSED GEOTECHNICAL ENGINEER.
- REFER TO ARCHITECT'S SITE PLAN FOR DRAINAGE.

3 $1/4" = 1'-0"$
 FOUNDATION SETBACKS

7 $1/4" = 1'-0"$
 NOTES FOR 50+15

KEY PLAN VENTING SCHEDULE	
VENT "A1" (SIDEWALL):	3'-6" x 7'-5" = 2,188 SF VENTILATION AVAILABLE
VENT "B" (ENDWALL):	3'-0" x 7'-5" = 1,875 SF VENTILATION AVAILABLE

SEE 2/F1.40 FOR REFERENCE

(2) 16d NAILS SILL TO BASE CONNECTION FOR 50+15 SEE 7 / F1.10			
	ENDWALL	SIDEWALL	SEPERATION
24x40	7" O.C	12" O.C	12" O.C
36x40	7" O.C	12" O.C	12" O.C
48x40	7" O.C	12" O.C	12" O.C

9 $1/4" = 1'-0"$
 KEY PLAN VENTING SCHEDULE FOR 50+15 PSF

6 $1/4" = 1'-0"$
 NAILING SCHEDULE FOR 50+15

WOOD FOUNDATION PLATE SCHEDULE								
50 + 15 PSF								
PLATES	END WALL	SIDE WALL	MODLINE ENDS	MODLINE INTERIOR	ML "B" ENDS	ML "B" INTERIOR	SEPERATION ENDS	SEPERATION INTERIOR
BOOSTER	2x4	2x4	2x6	2x6	2x8	2x8	2x4	2x4
TOP	2x6	2x6	2x8	2x8	2x10	2x10	2x6	2x6
BASE	2x8	2x8	2x10	2x10	2x12	2x12	2x8	2x8
SILL	2x12	2x12	(6) 2x12, 24" LONG	(6) 2x12, 24" LONG	(8) 2x12, 24" LONG	(8) 2x12, 24" LONG	2x12	2x12

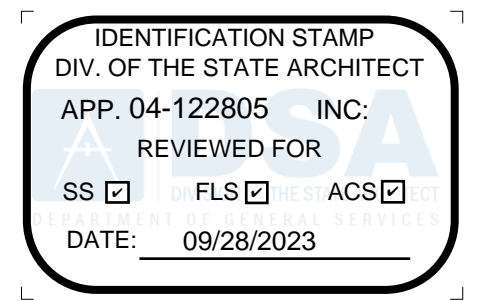
* MODLINE "B" - MODLINE W/ EXT. WALLS BACK-TO-BACK SEE F1.14

TIE PLATE SCHEDULE		
	END WALL	SIDE WALL
24x40	5	3
36x40	7	3
48x40	10	3

8 $1/4" = 1'-0"$
 WOOD FOUNDATION PLATE SCHEDULE FOR 50+15

4 $1/4" = 1'-0"$
 TIE PLATE SCHEDULE FOR 50+15

PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP

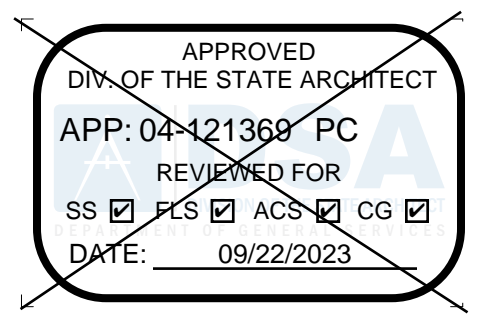


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ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
 PC 2022 CBC:24' x 40'
 EXPANDABLE TO
 120' x 40'

SHEET TITLE
 WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 50+15

PROJECT NUMBER
 22088

DRAWN BY
 rMc/SC

CHECKED BY
 JA/RT

DATE

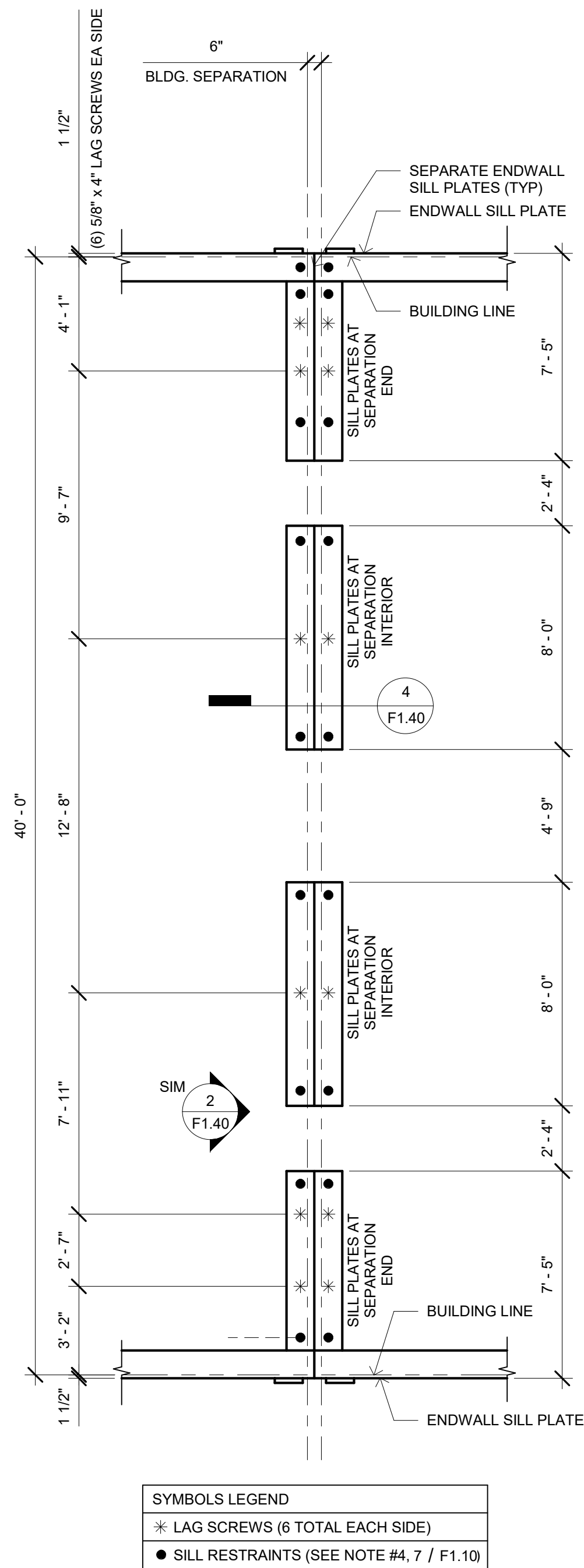
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SHEET OF

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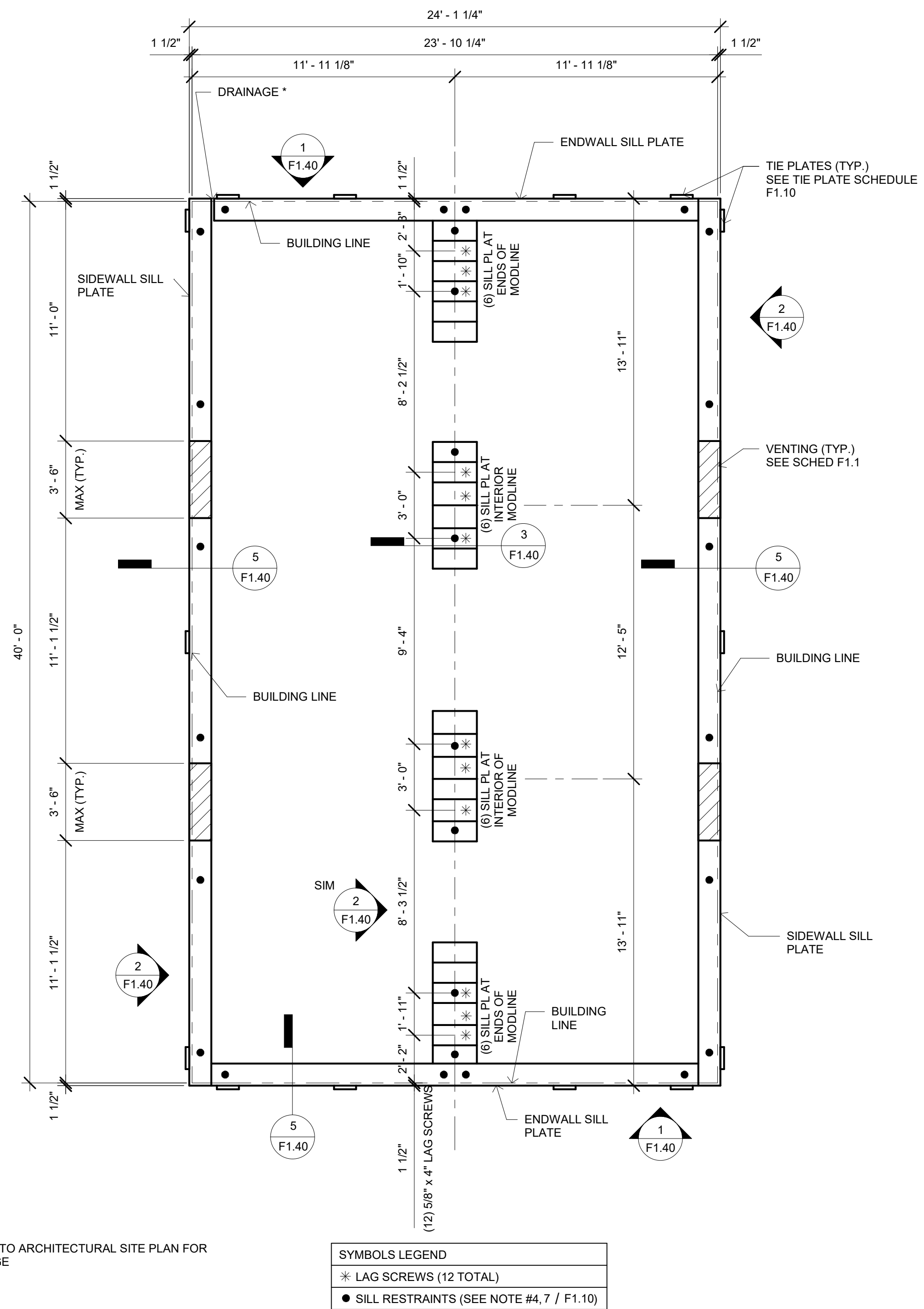
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3 1/4" = 1'-0"
FOOTING AT SEPARATION

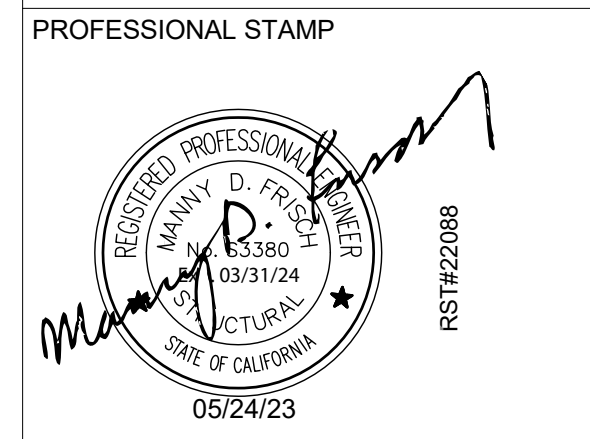
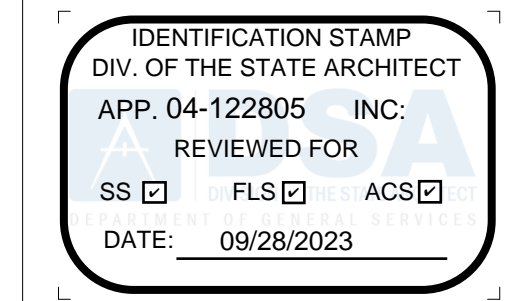


2 1/4" = 1'-0"
24x40 FOUNDATION PLAN

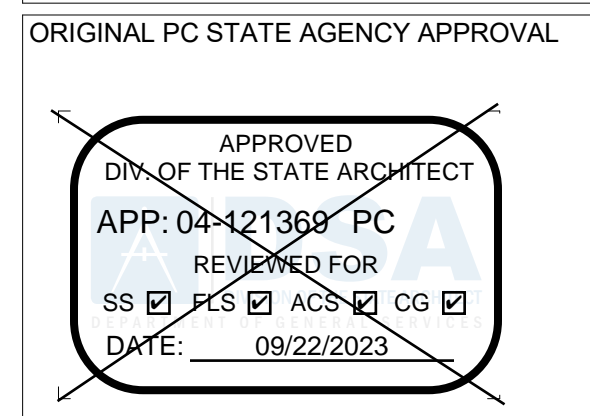
* REFER TO ARCHITECTURAL SITE PLAN FOR DRAINAGE



PROJECT SPECIFIC STATE AGENCY APPROVAL



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Revision Schedule		
#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
WOOD
FOUNDATION
PLAN 24x40 BLDG
W/ 50+15

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

DATE

SHEET NO.
F1.11

SHEET OF

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6/16/2021 7:44:53 AM

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-122805 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 09/28/2023

R&S TAVARES ASSOCIATES
 DESIGN & CONSULTING & PROJECT MGT
 11500 W BERNHARD COURT, SUITE 100
 SAN DIEGO, CA 92127
 WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
 MANNY D. FRIEDL
 65380
 03/31/24
 CALIFORNIA
 STATE OF CALIFORNIA
 05/24/23
 RST#22088

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CLIENT

Class Leasing
 1320 W. Oleander Ave, Perris CA 92571-7408
 VOICE (951) 943-1908 Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
 DIV. OF THE STATE ARCHITECT
 APP. 04-121368 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
**PC 2022 CBC:24' x 40'
 EXPANDABLE TO
 120' x 40'**

SHEET TITLE
**MODLINE "B" W/
 EXTERIOR WALLS
 BACK-TO-BACK 50+15
 PSF**

PROJECT NUMBER
 22088

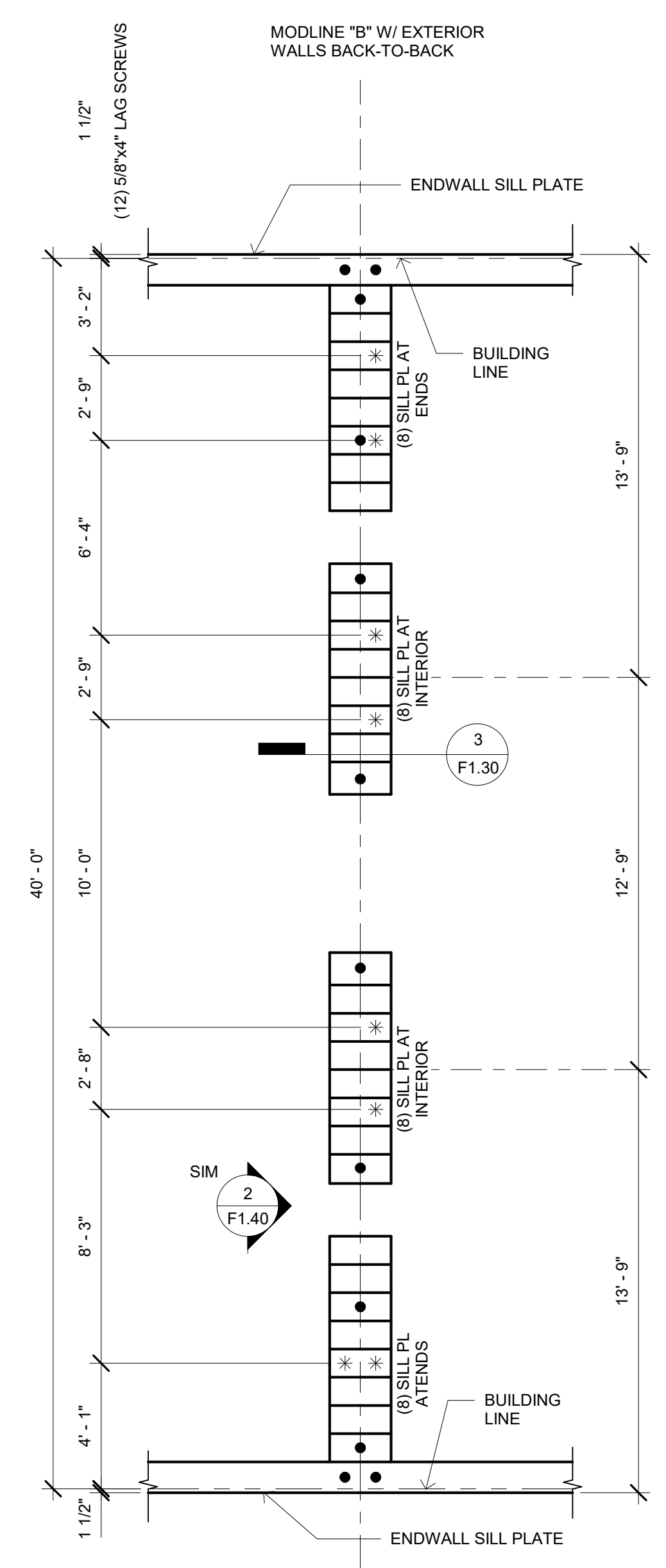
DRAWN BY
 rMc/SC

CHECKED BY
 JA/RT

DATE

SHEET NO.
F1.14

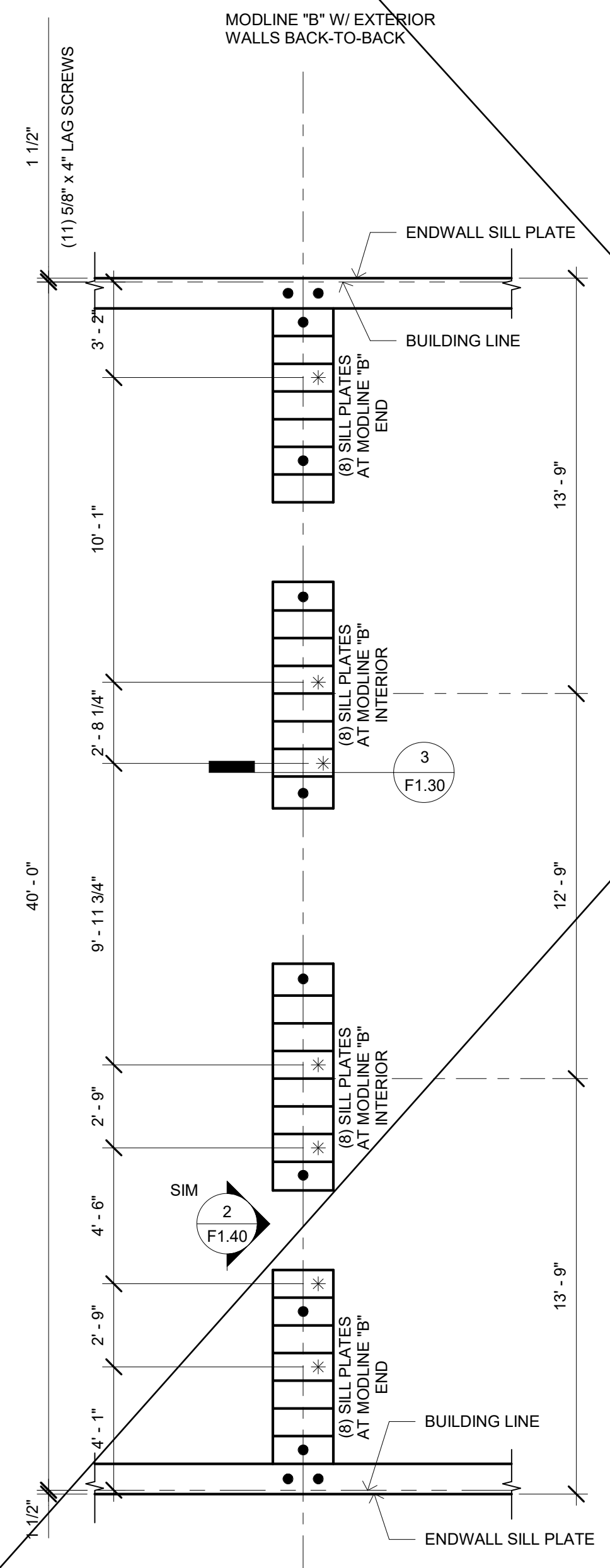
SHEET OF



SYMBOLS LEGEND
 * LAG SCREWS (12 TOTAL)
 ● SILL RESTRAINTS (SEE NOTE #4.7 / F1.10)

NOTE: IT IS ONLY APPROPRIATE WHERE ADJACENT MODULE IS BOLTED AND DOES NOT EXCEED 36 FEET WIDE TOGETHER (2160 SF. TOTAL AREA)

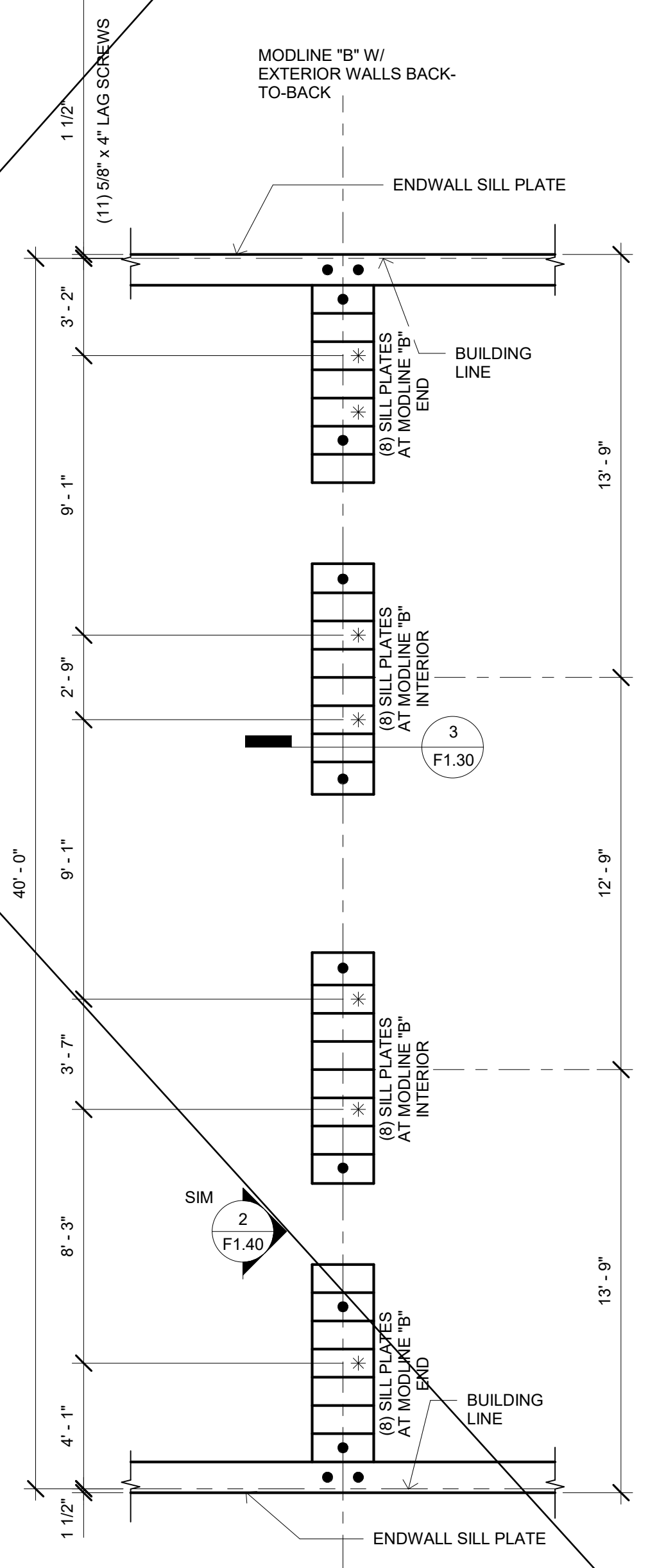
1 1/4" = 1'-0"
 FOOTING AT MODELINE TYPE "B", 24x40



SYMBOLS LEGEND
 * LAG SCREWS (11 TOTAL)
 ● SILL RESTRAINTS (SEE NOTE #4.7 / F1.10)

NOTE: IT IS ONLY APPROPRIATE WHERE ADJACENT MODULE IS BOLTED AND DOES NOT EXCEED 36 FEET WIDE TOGETHER (2160 SF. TOTAL AREA)

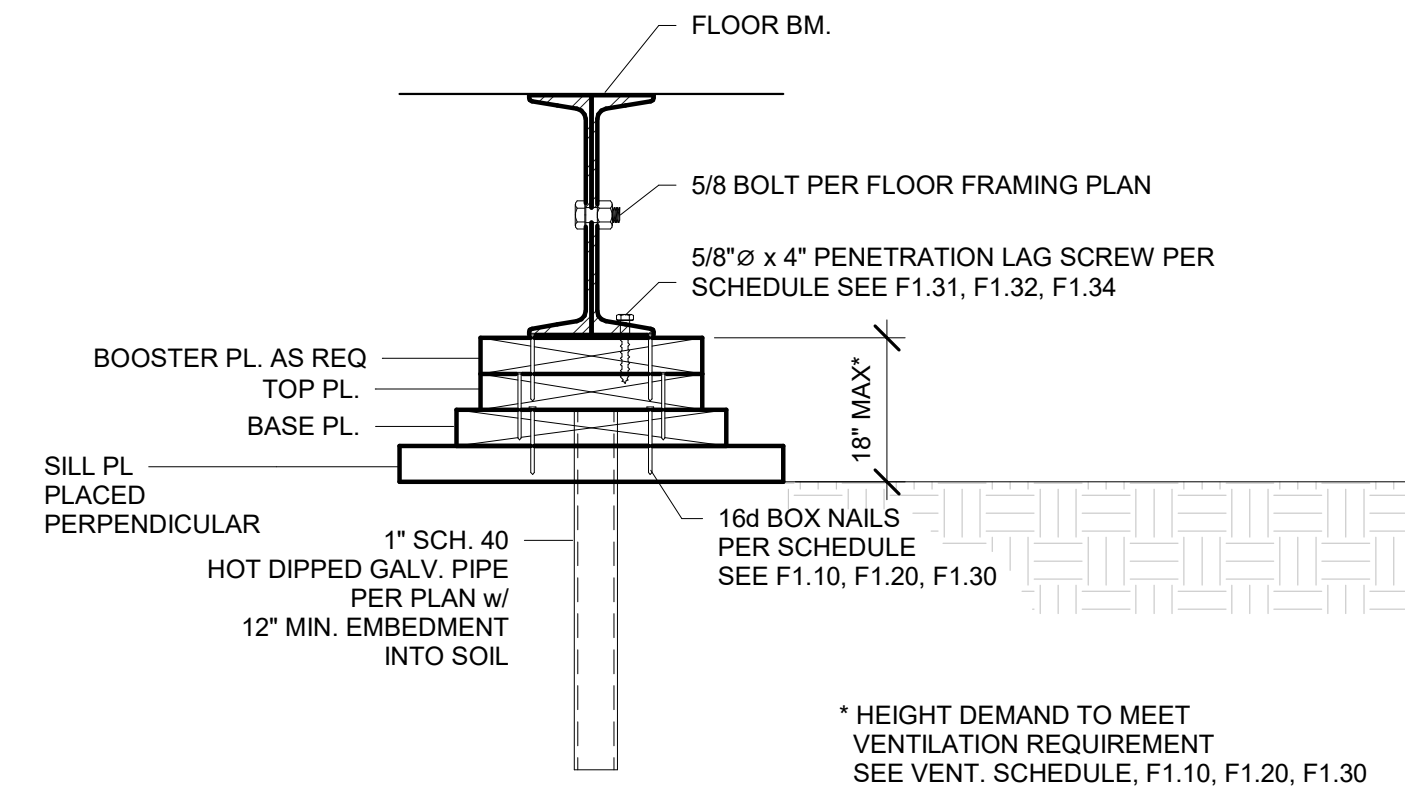
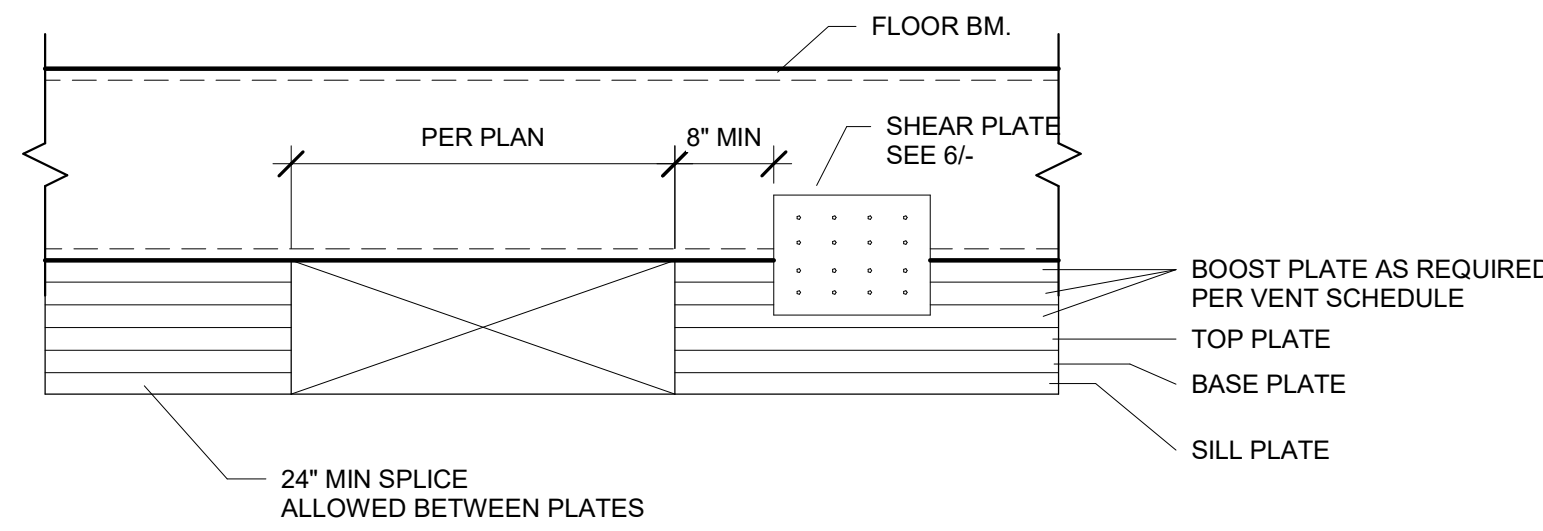
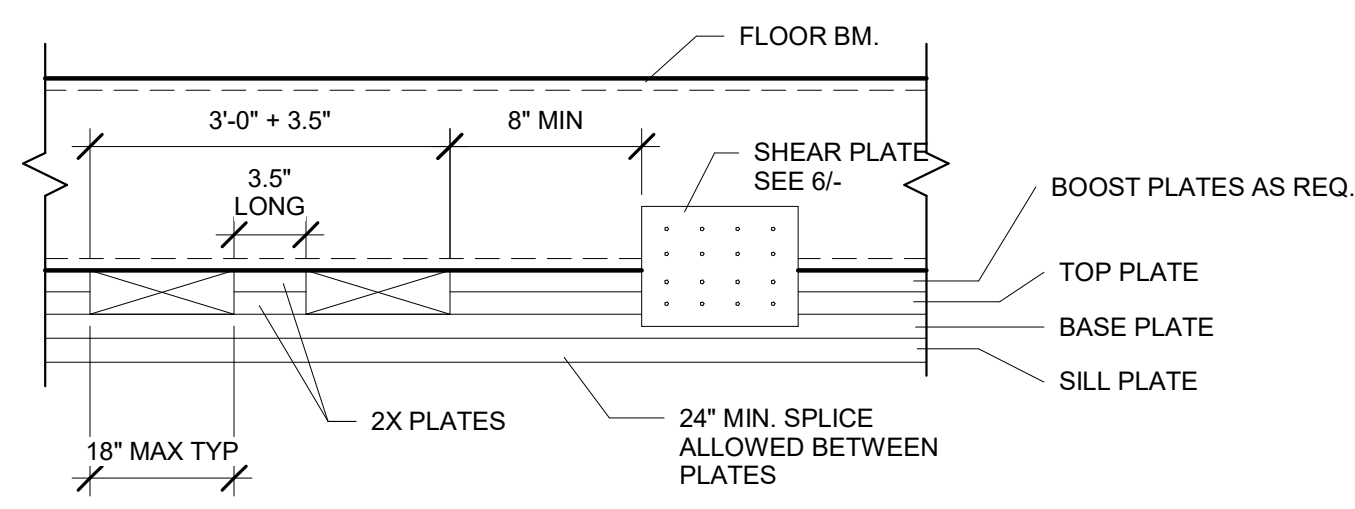
2 1/4" = 1'-0"
 FOOTING AT MODELINE TYPE "B", 36x40



SYMBOLS LEGEND
 * LAG SCREWS (11 TOTAL)
 ● SILL RESTRAINTS (SEE NOTE #4.7 / F1.10)

NOTE: IT IS ONLY APPROPRIATE WHERE ADJACENT MODULE IS BOLTED AND DOES NOT EXCEED 36 FEET WIDE TOGETHER (2160 SF. TOTAL AREA)

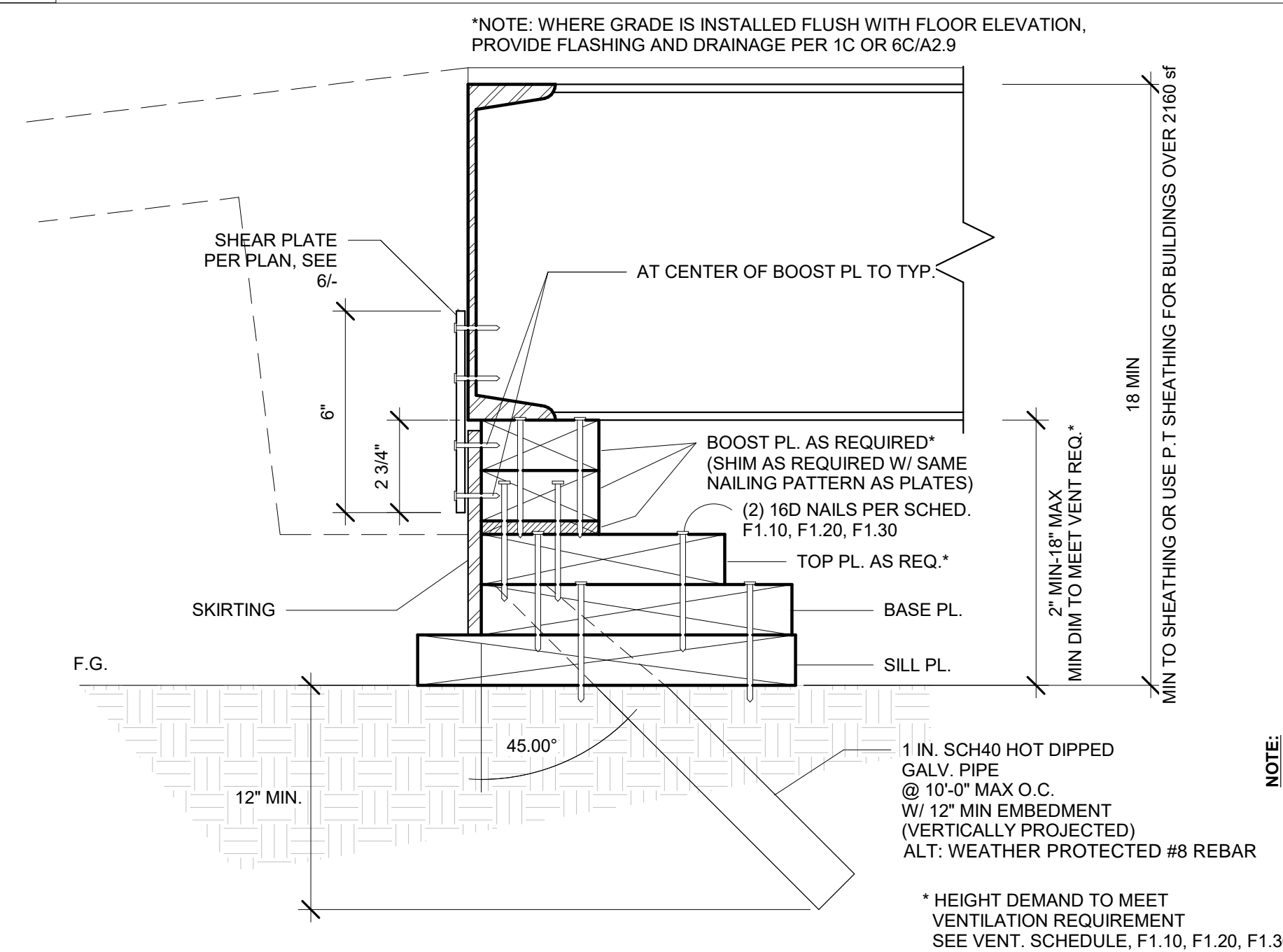
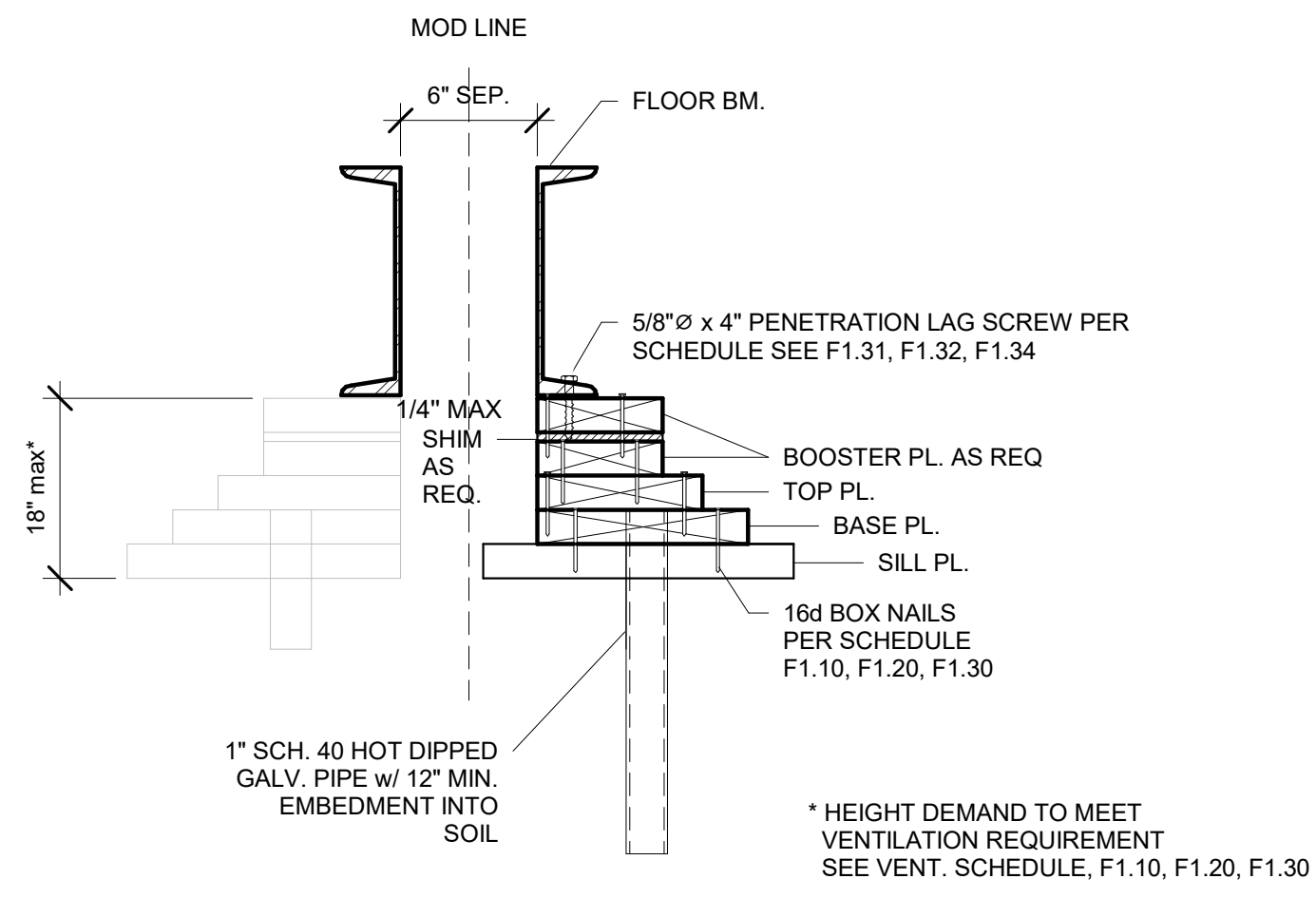
3 1/4" = 1'-0"
 FOOTING AT MODELINE TYPE "B", 48x40



1 1 1/2" = 1'-0"
VENT OPENING OVER BASE PLATE

2 1 1/2" = 1'-0"
VENT OPENING @ SIDEWALL OR MODLINE @ SEPERATION

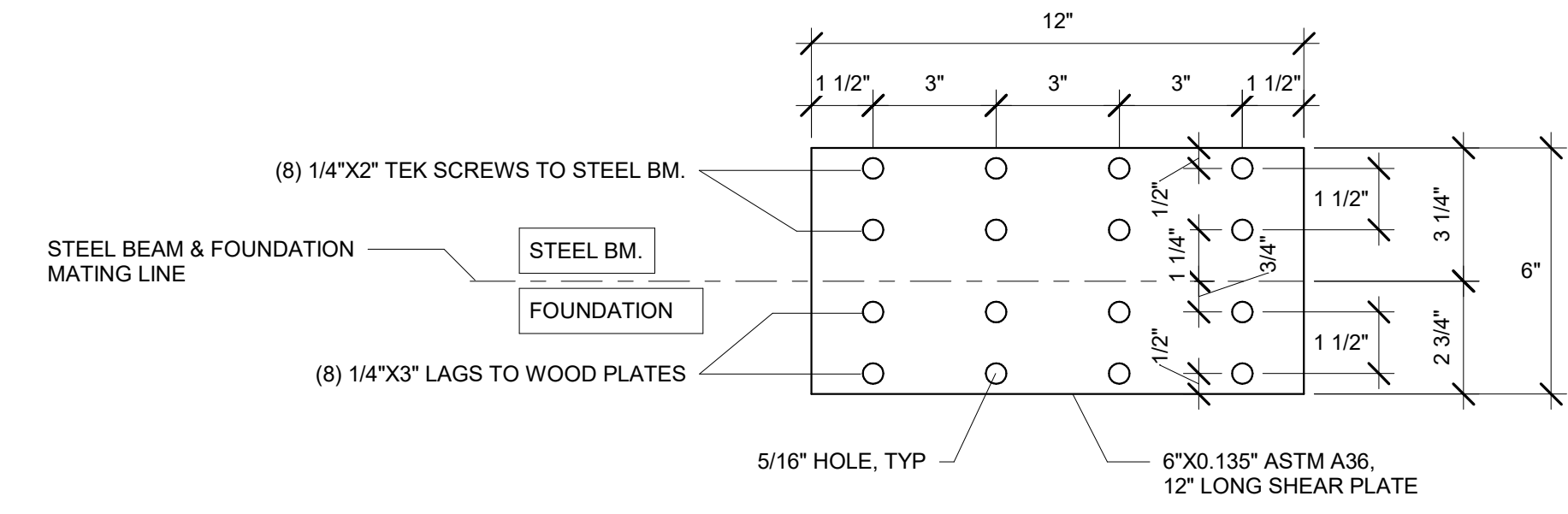
3 1 1/2" = 1'-0"
FOUNDATION PAD AT MOD LINE



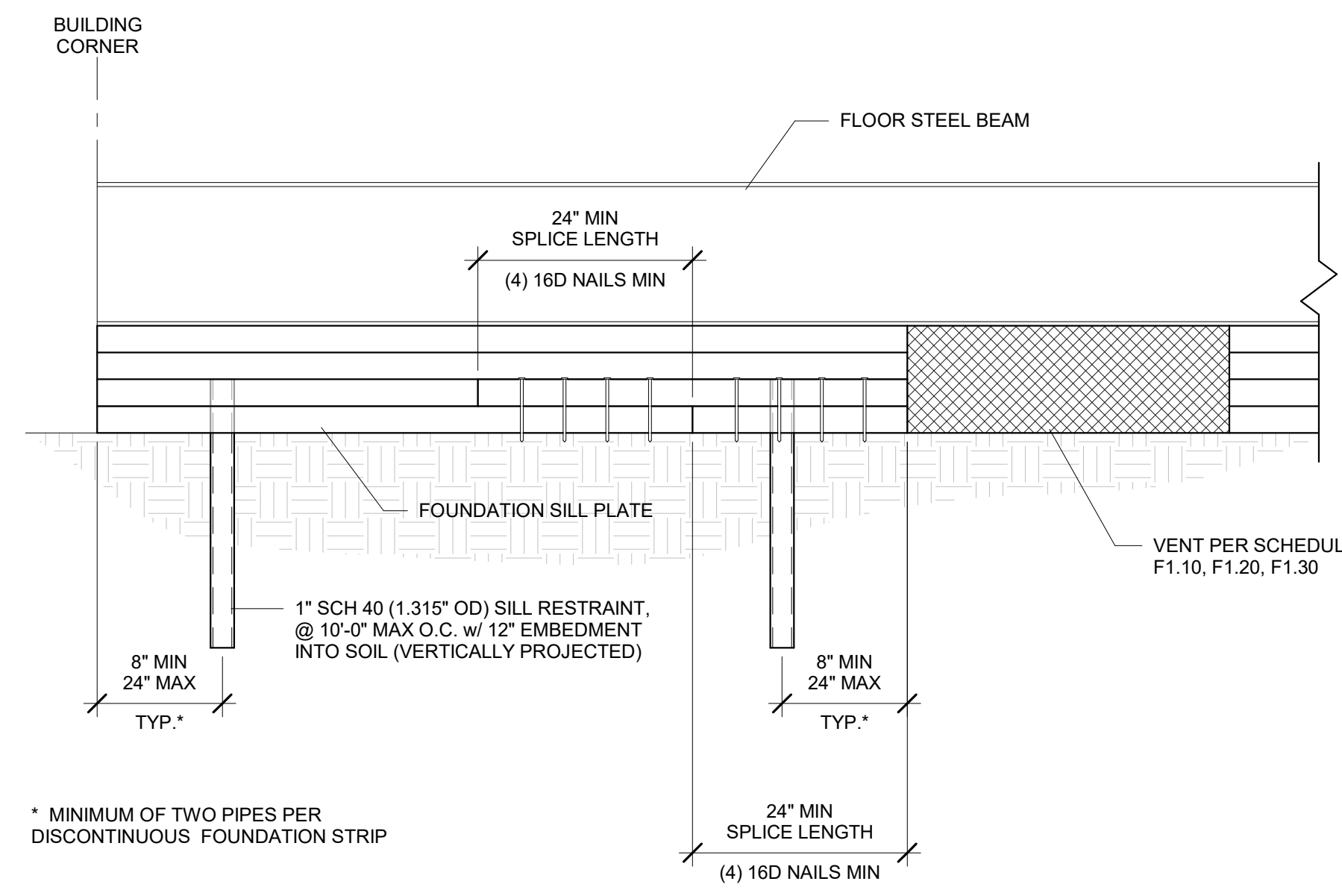
NOTE: (BASED ON DSA IR-16-1 SECTIONS 2.2.3, 2.3 AND 2.4. ANY BUILDING UNDER 2160 SQFT MAY BE LOWER THAN 18" THE REQUIREMENT FOR PRESERVATIVE FLOOR FINISHES SHALL BE OBSERVED AND THE CLIENT'S APPOINTED AGENT WILL BE SUBMITTED FOR APPROVAL BY THE CLIENT'S APPOINTED AGENT.)

4 1 1/2" = 1'-0"
FOUNDATION PAD AT SEPERATION

5 3" = 1'-0"
SILL PLATE PROFILE



6 3" = 1'-0"
SHEAR PLATE



7 1 1/2" = 1'-0"
Splice at Sills

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
DESIGN & CONSULTING PROJECT MEET
11500 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FLORES
03380
03/31/24
CALIFORNIA
STATE OF CALIFORNIA
05/24/23
RST#22088

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CLIENT

Class Leasing
1320 W. Oleander Ave, Perris CA 92571-7408
VOICE (951) 943-1908 Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
WOOD FOUNDATION DETAILS

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

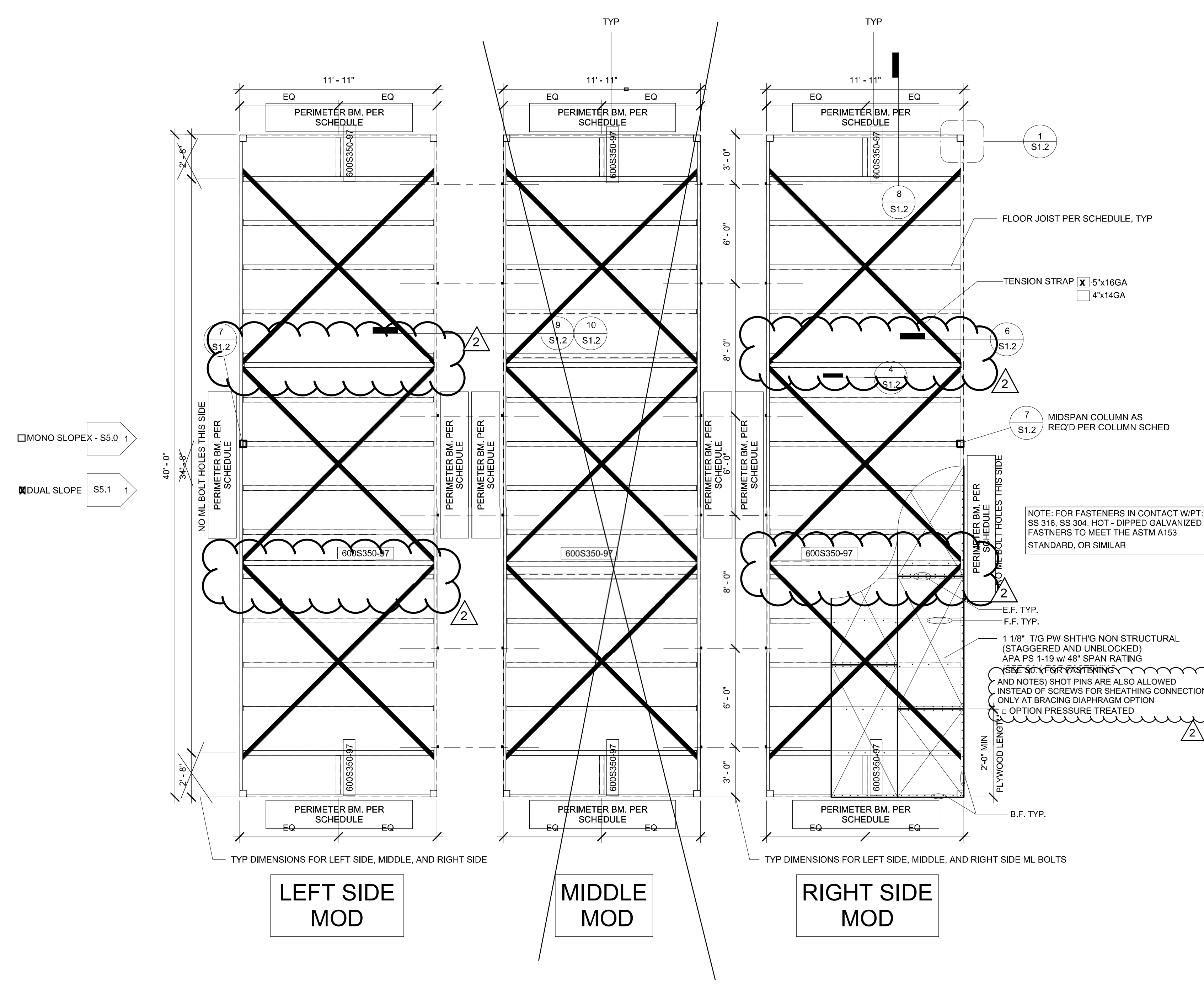
DATE

SHEET NO.
F1.40

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6/2/2022 9:46:43 AM

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 11/20/2023



□ MONO SLOPE - SS.0 1
▣ DUAL SLOPE SS.1 1

Floor Joist Schedule

FLL	JOIST	SPACING	O.C.
<input checked="" type="checkbox"/> 50+15 PSF	600S350-97	24" O.C.	32"
<input type="checkbox"/> 100 PSF	600S350-97	24" O.C.	
<input type="checkbox"/> 150 PSF	600S350-97	16" O.C.	

Perimeter Floor Beam Schedule

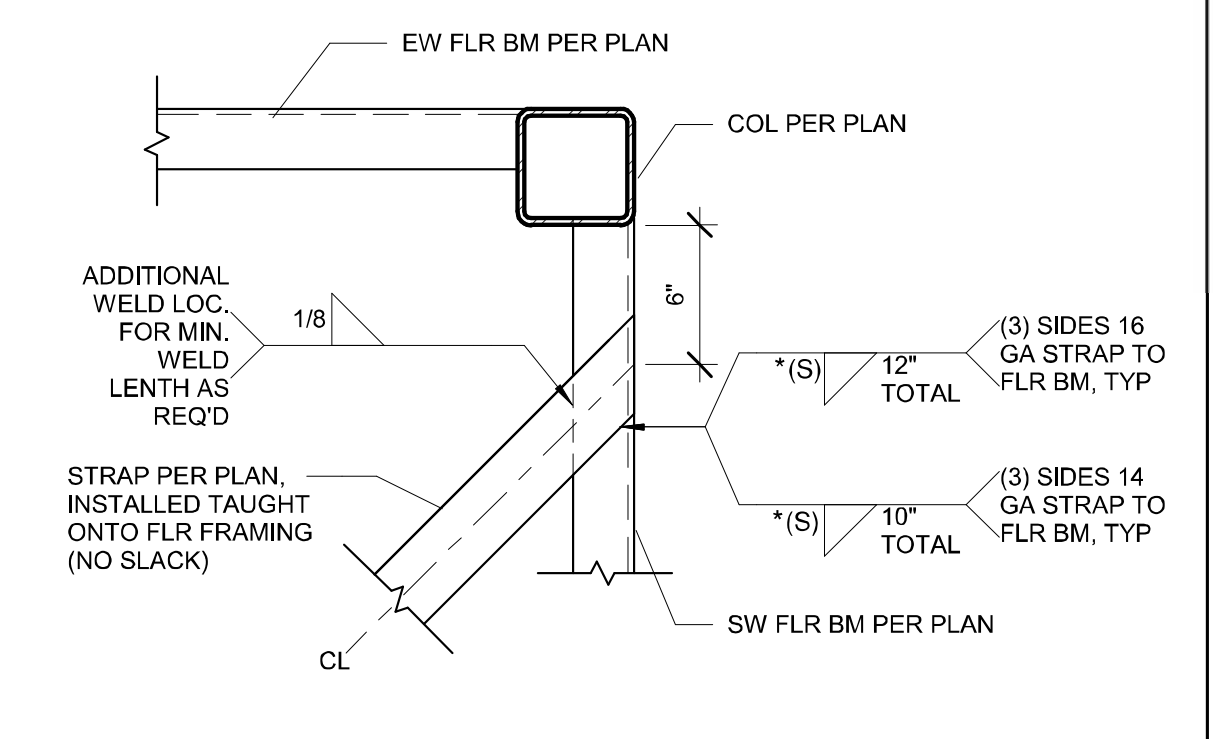
HT	Perimeter Floor Beam Schedule		
	No Plaster Walls	Plaster Walls	w/ Parapet, 18" max
9'	C10x15.3	C10x15.3	C10x15.3
10'	C10x15.3	C10x15.3	C10x15.3

NOTE: SPLICE AT FLOOR BEAM PERMITTED PER 3/S1.2

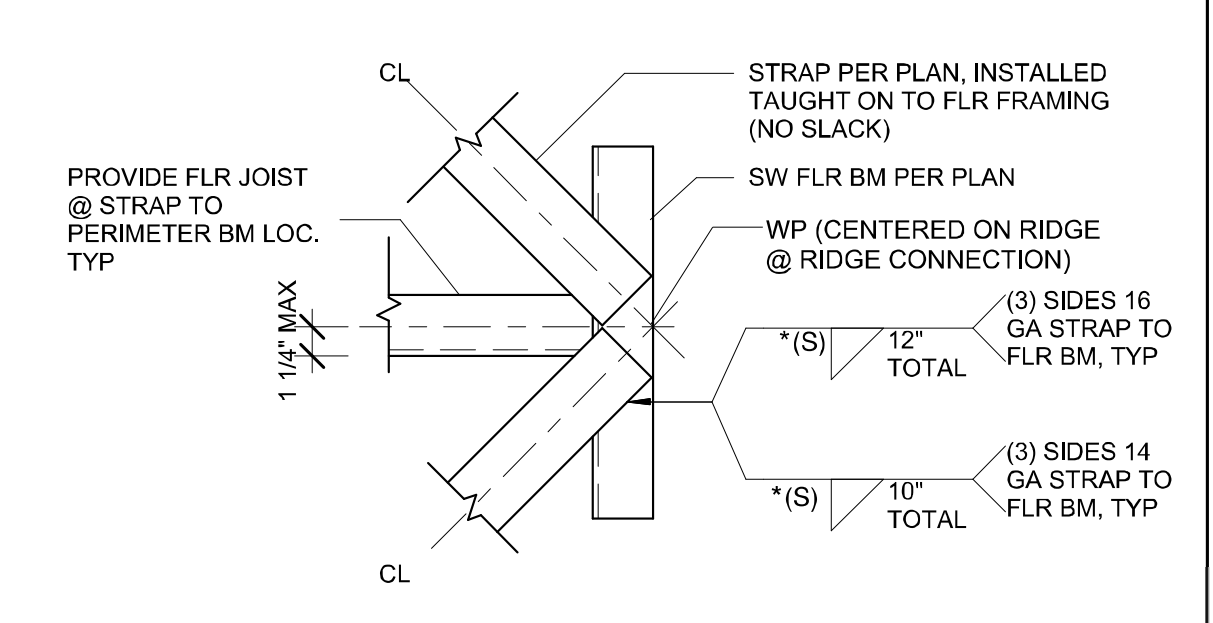
Column Schedule

HT	Column Schedule		
	No Plaster Walls	Plaster Walls	w/ Parapet, 18" max
9'	6x6x5/16-5X5X1/4	6x6x5/16	6x6X1/4
10'	6x6x5/16	6x6x5/16	6x6X1/4
			3x3X3/16 mid-span column

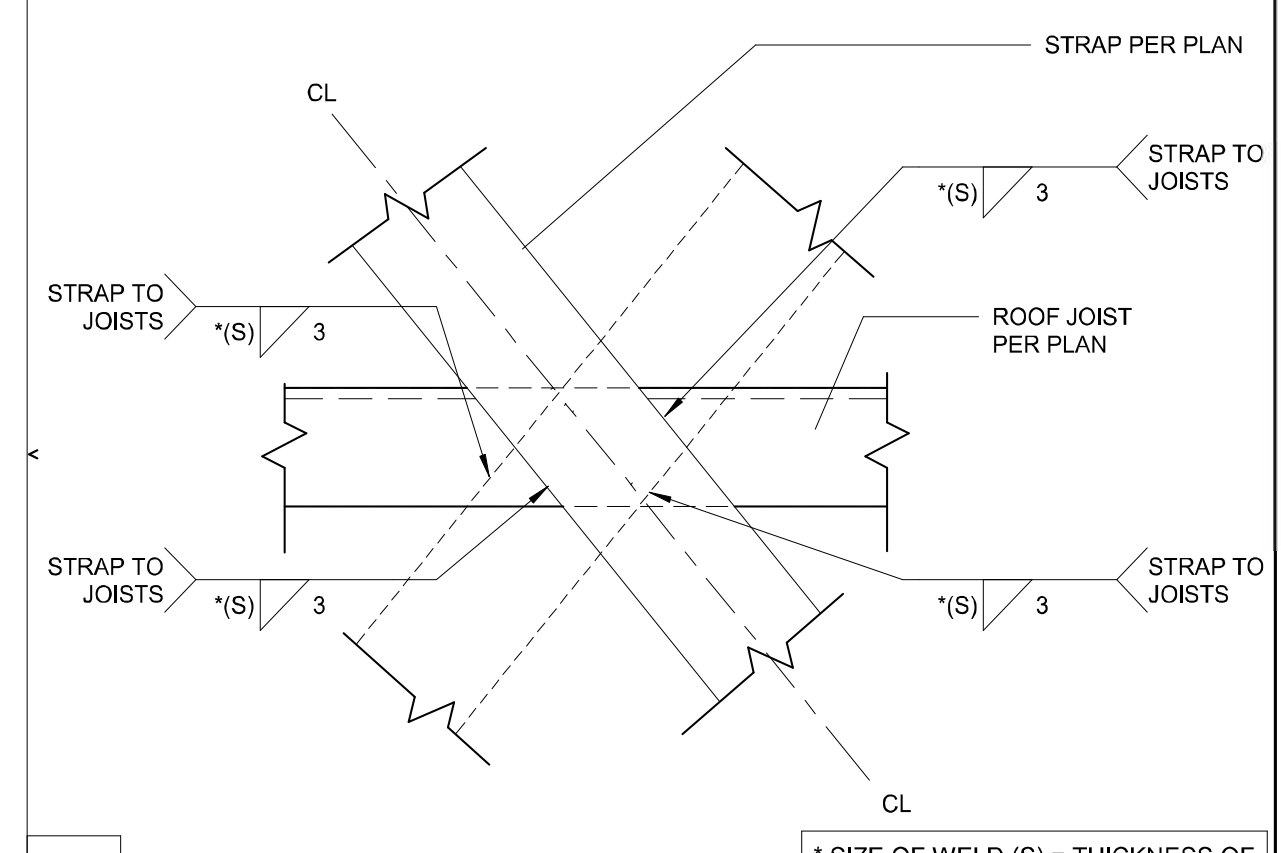
NOTE: ALL PANEL EDGES SHALL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING, WHERE USED AS BLOCKING. FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 33MILS WITH A MINIMUM WIDTH OF 1.5 INCHES AND SHALL BE INSTALLED BELOW SHEATHING. FOR OTHER THAN STEEL SHEATHING, THE SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.



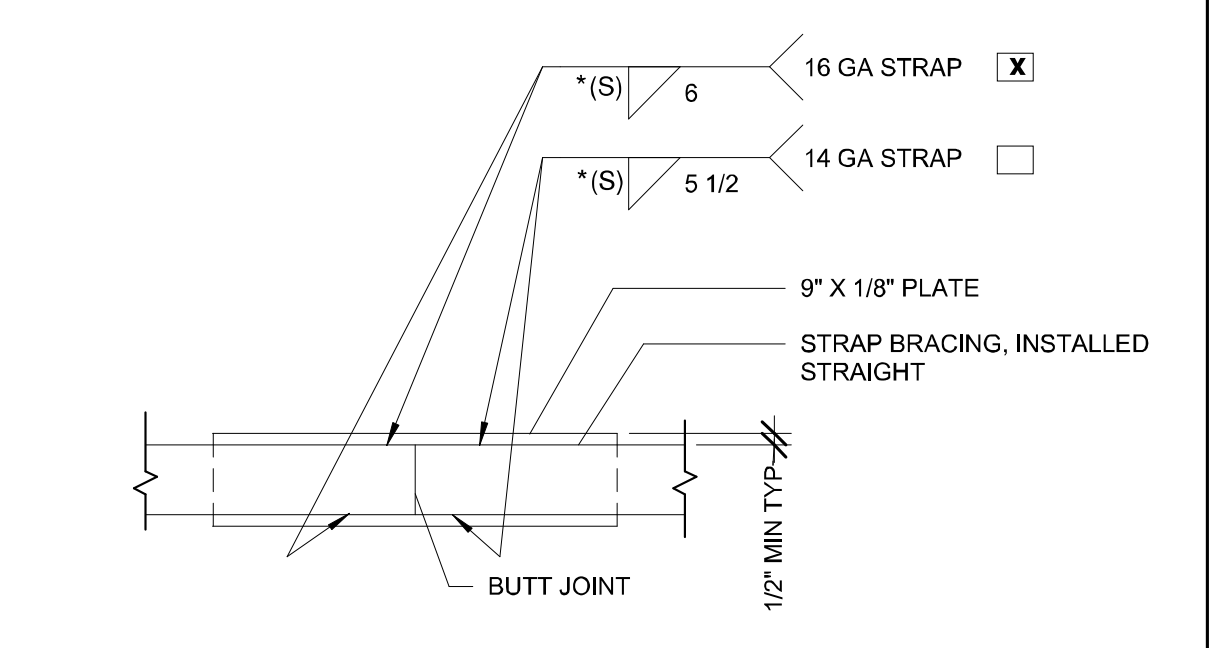
2 1 1/2" = 1'-0" FLOOR BRACING STRAP @ ENDWALL



3 1 1/2" = 1'-0" FLOOR STRAP BRACING @ SIDEWALL



4 3" = 1'-0" STRAP TO JOIST CONNECTION



5 1 1/2" = 1'-0" STRAP SPLICE DETAIL

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
DESIGN • CONSULTING • PROJECT
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SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP
REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FLORES
E3380
03/31/24
STATE OF CALIFORNIA
RST17422088
05/24/23

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CLIENT
Class Leasing
1651 S. Juanita Street, San Jacinto, CA 92583
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ORIGINAL PC STATE AGENCY APPROVAL
APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

REVISIONS

#	Description	BY
1	AMEND CALL OUT PER CALCS	10-11-23
2	CCD_002	11/2/2023

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required
PROJECT TITLE
PC 2022 CBC:24' x 40'
EXPANDABLE TO
120' x 40'
EL DORADO 160# SNOW LOAD

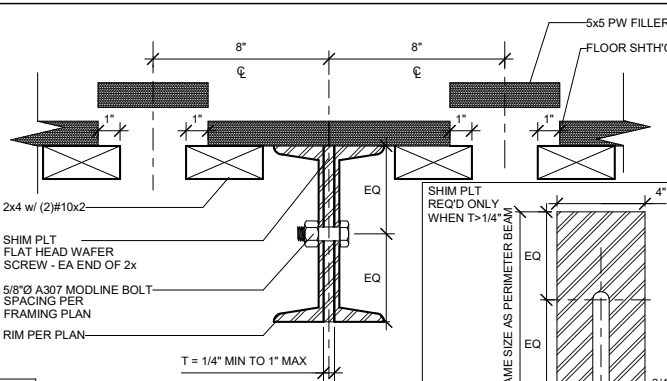
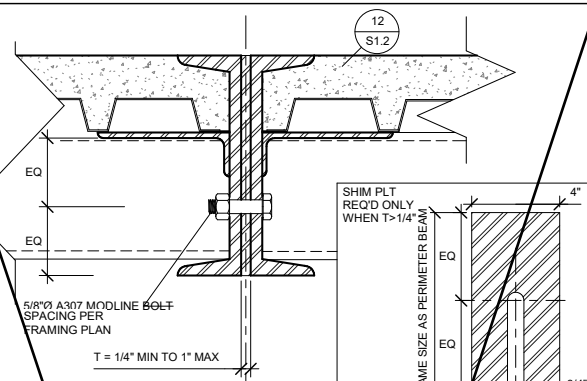
SHEET TITLE
WD SHTH'G FLR FRAMING PLAN
CROSS-STRAP OPT.

PROJECT NUMBER
22073
DRAWN BY
Author
CHECKED BY
Checker
DATE
06/07/2021
SHEET NO.
S1.0.4
SHEET OF SHEETS

CCD_001

1 1/4" = 1'-0" WD Sth'g Flr Framing Plan (50+15 PSF) CROSS-STRAP OPT.

BH-36 METAL DECK PROPERTIES & PROFILE					
PLAN DESIGNATION	DECK TYPE	MINIMUM EFFECTIVE PROPERTIES			DECK PROFILE
		S_x IN ² /FT	S_y IN ² /FT	I_x IN ⁴ /FT	
1-12'-18GA ABC BH-36 GALV DECK (2" WIDE)		0.311	0.329	0.287	



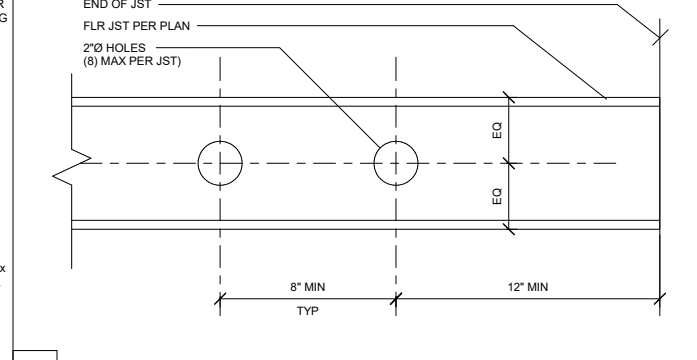
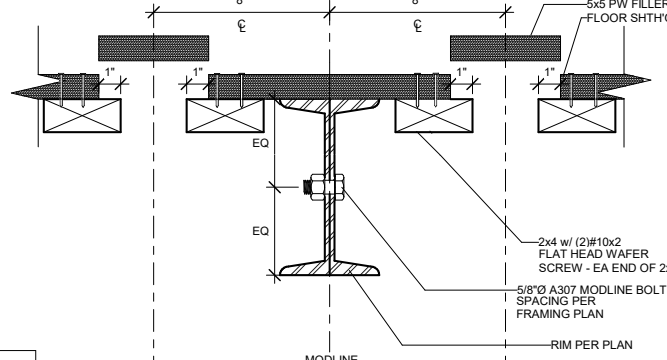
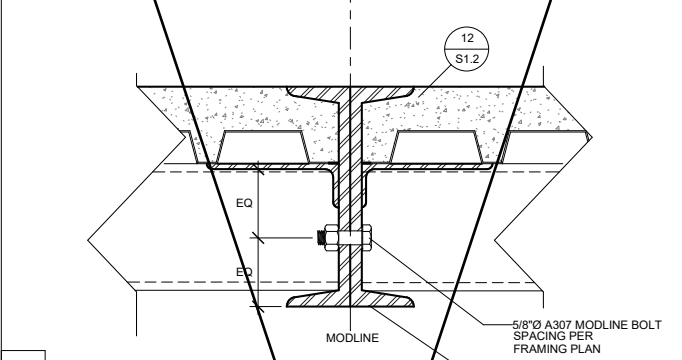
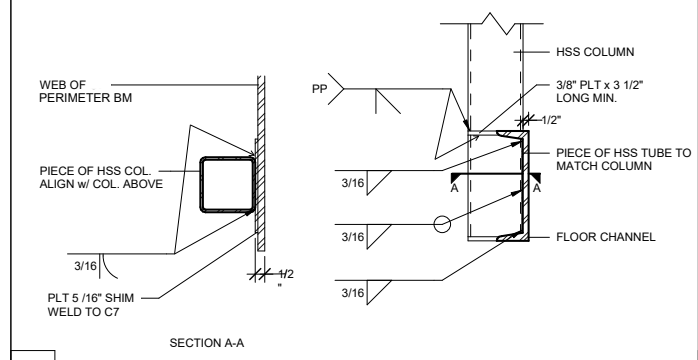
CHANNEL JOIST SECTION PROPERTIES	
A-1011, GRADE 33	
t	= 0.1017"
S_x	= 2.822 IN ²
I_x	= 8.631 IN ⁴
F_y	= 33 KSI

20 1 1/2" = 1'-0"
BH-36 Metal Deck Properties & Profile

15 3" = 1'-0"
Fir @ ML w/ Shim (CONC FLR)

10 3" = 1'-0"
Fir @ ML w/ Shim (WD FLR)

5 3" = 1'-0"
Channel Joist Section Properties (600S350-97)

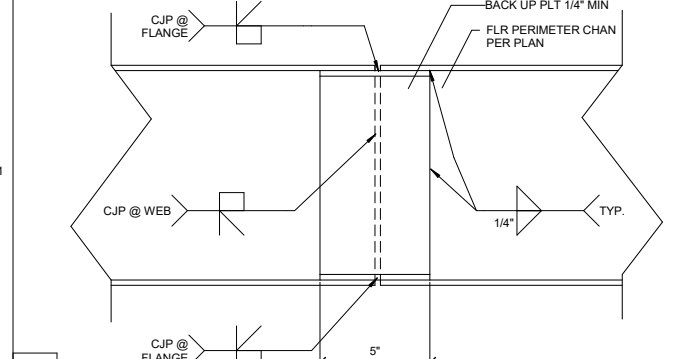
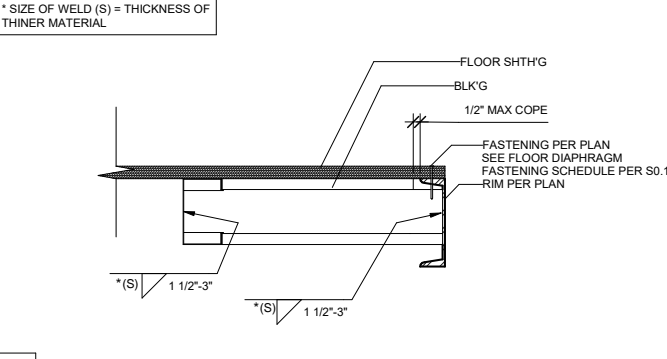
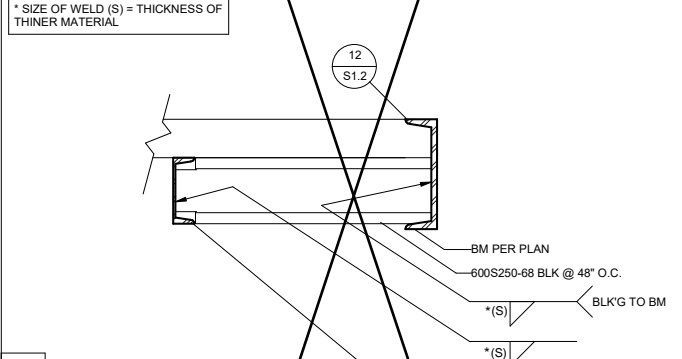
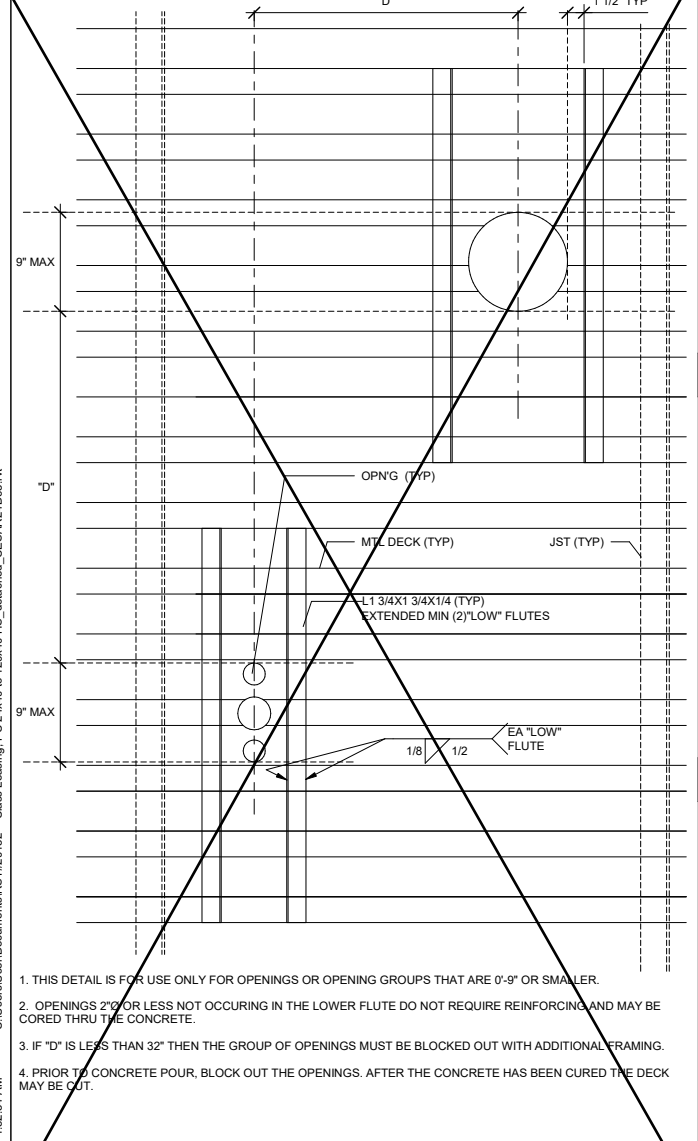


7 1 1/2" = 1'-0"
Mid-Span Column Connection

14 3" = 1'-0"
Fir @ ML (CONC FLR)1

9 3" = 1'-0"
Fir @ ML (WD FLR)1

4 3" = 1'-0"
Elevation - Allowable Jst Holes

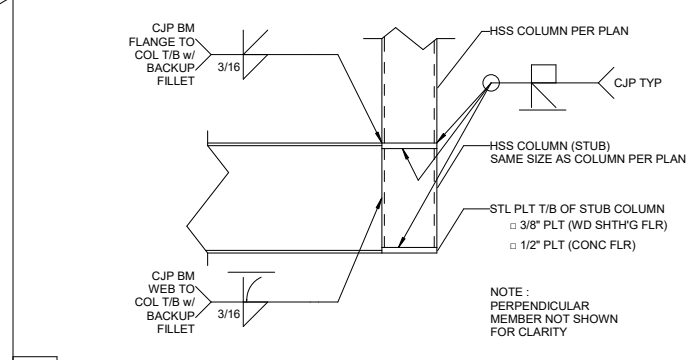
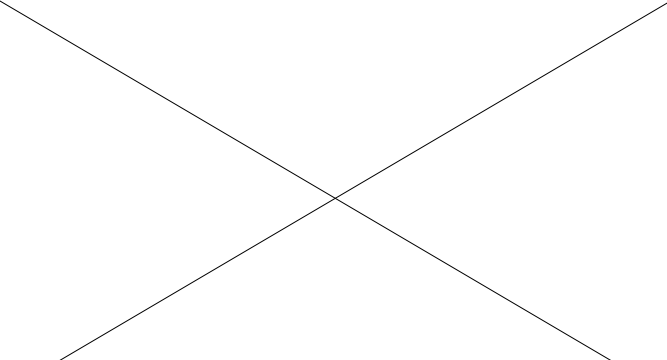
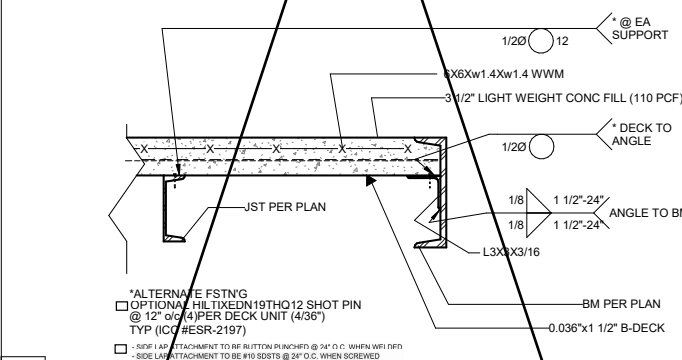


16 1 1/2" = 1'-0"
Typ Deck Penetrations (CONC FLR)

13 1 1/2" = 1'-0"
Typ Blocking (CONC FLR)

8 1 1/2" = 1'-0"
Typ Blk'g Connection @ Rim (WD FLR)

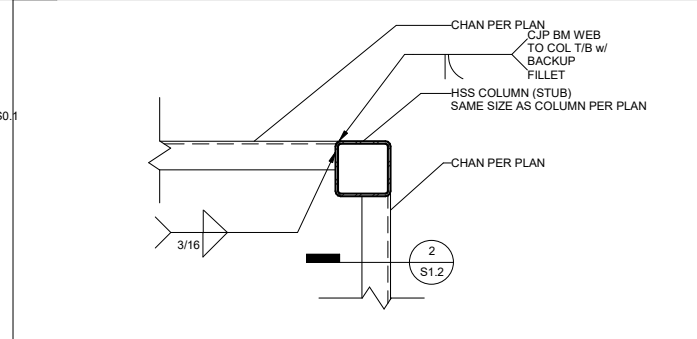
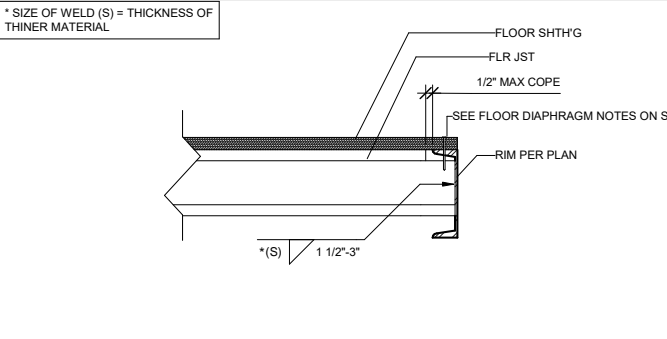
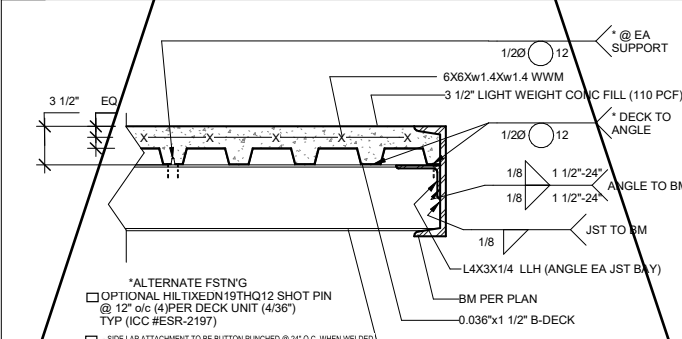
3 3" = 1'-0"
Fir Perimeter Beam Splice



12 1 1/2" = 1'-0"
Typ End Beam Connection @ Rim (CONC FLR)

6 1 1/2" = 1'-0"
Typ Joist Connection @ Rim (WD FLR)

2 1 1/2" = 1'-0"
Typ Fir Bm to Column Connection



11 1 1/2" = 1'-0"
Typ Side Beam Connection @ Rim (CONC FLR)

6 1 1/2" = 1'-0"
Typ Joist Connection @ Rim (WD FLR)

1 1 1/2" = 1'-0"
Typ Corner Connection

- THIS DETAIL IS FOR USE ONLY FOR OPENINGS OR OPENING GROUPS THAT ARE 0'-9" OR SMALLER.
- OPENINGS 2" OR LESS NOT OCCURRING IN THE LOWER FLUTE DO NOT REQUIRE REINFORCING AND MAY BE CORED THRU THE CONCRETE.
- IF "D" IS LESS THAN 32" THEN THE GROUP OF OPENINGS MUST BE BLOCKED OUT WITH ADDITIONAL FRAMING.
- PRIOR TO CONCRETE POUR, BLOCK OUT THE OPENINGS. AFTER THE CONCRETE HAS BEEN CURED THE DECK MAY BE CUT.

C:\Users\jmc\Documents\RS\2022\132 - Class Leasing_PC 24x40 to 120x40 HS_detached_CESAR24D83.mxd 6/6/2021 1:52:34 AM

PROJECT SPECIFIC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT

APP. 04-122805 INC. REVIEWED FOR

SS FLS ACS

DATE: 10/17/23

R&S TAVARES ASSOCIATES
DESIGN & CONSULTING ARCHITECTS

1150 W BERNHARD COUNTY, SUITE 100
SAN DIEGO, CA 92107
WWW.RS-TAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FRENCH
No. 53380
03/31/24
STATE OF CALIFORNIA
05/24/23
RSTW22088

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Class Leasing

1320 W. Oleander Ave., Perris CA 92571-7408
VOICE (951) 943-1908/FAX (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT

APP. 04-121369 PC REVIEWED FOR

SS FLS ACS CG

DATE: 09/22/2023

Revision Schedule		
#	Description	Date
1	AMEND CALL OUT PER CALCS	10-11-23

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
STRUCTURAL DETAILS (FLOOR)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

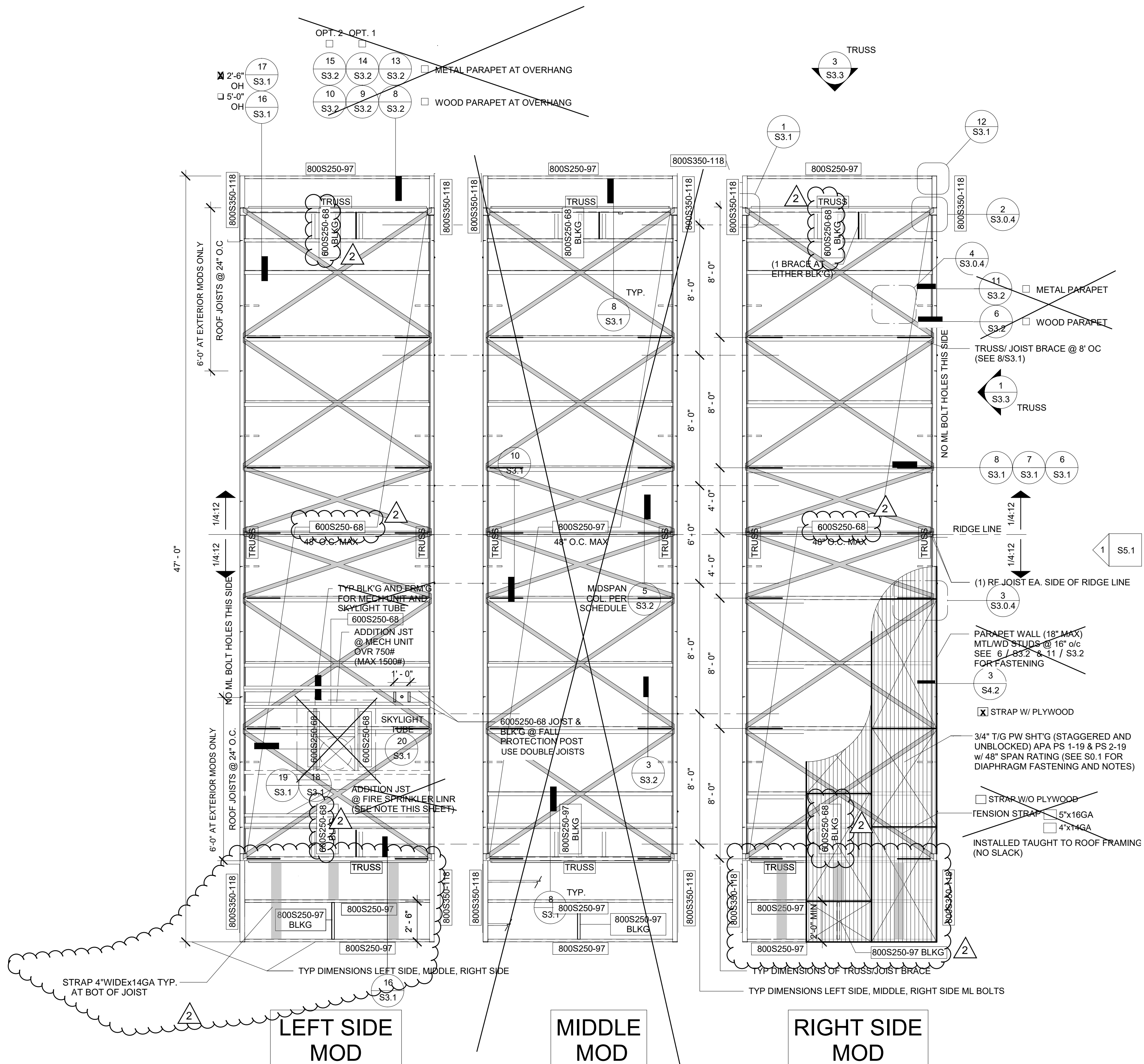
DATE

SHEET NO.
S1.2

CCD_001

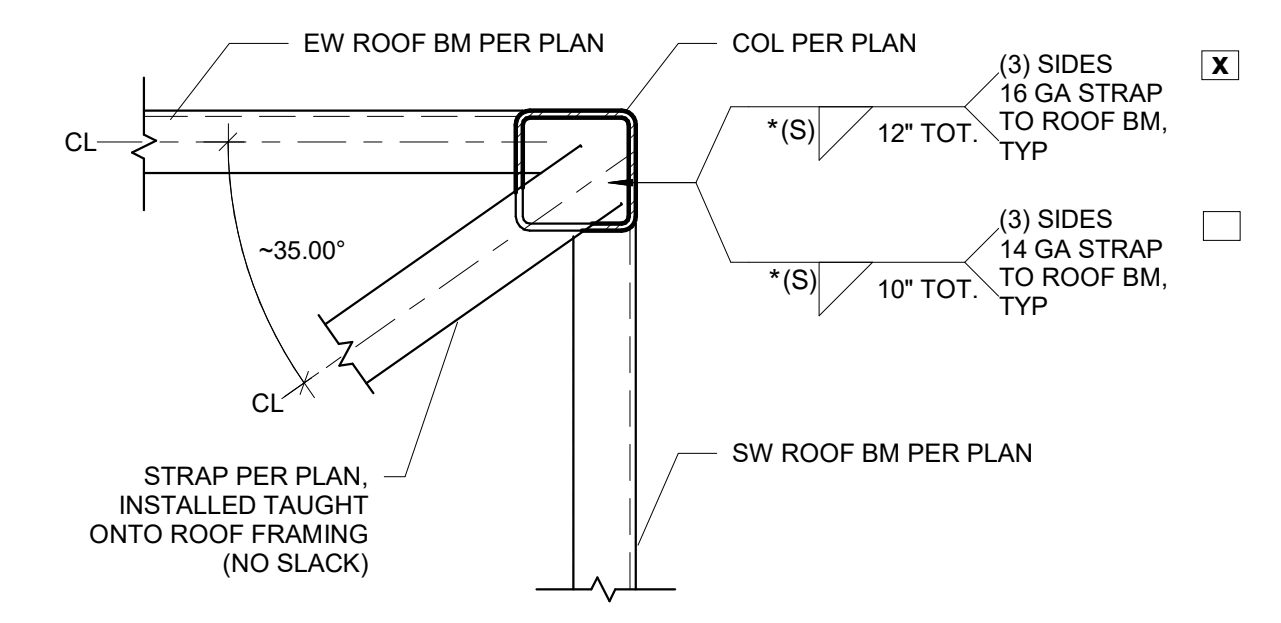
10/25/2022 3:45:48 PM M:\2022\22088 - Class Leasing, 24x40 to 120x40 High Seismic 2022 PC\REV\Source file detached 22095 for S3.0.3 and S3.0.4\source file detached 22095 for S3.0.3 and S3.0.4.rvt

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 11/20/2023

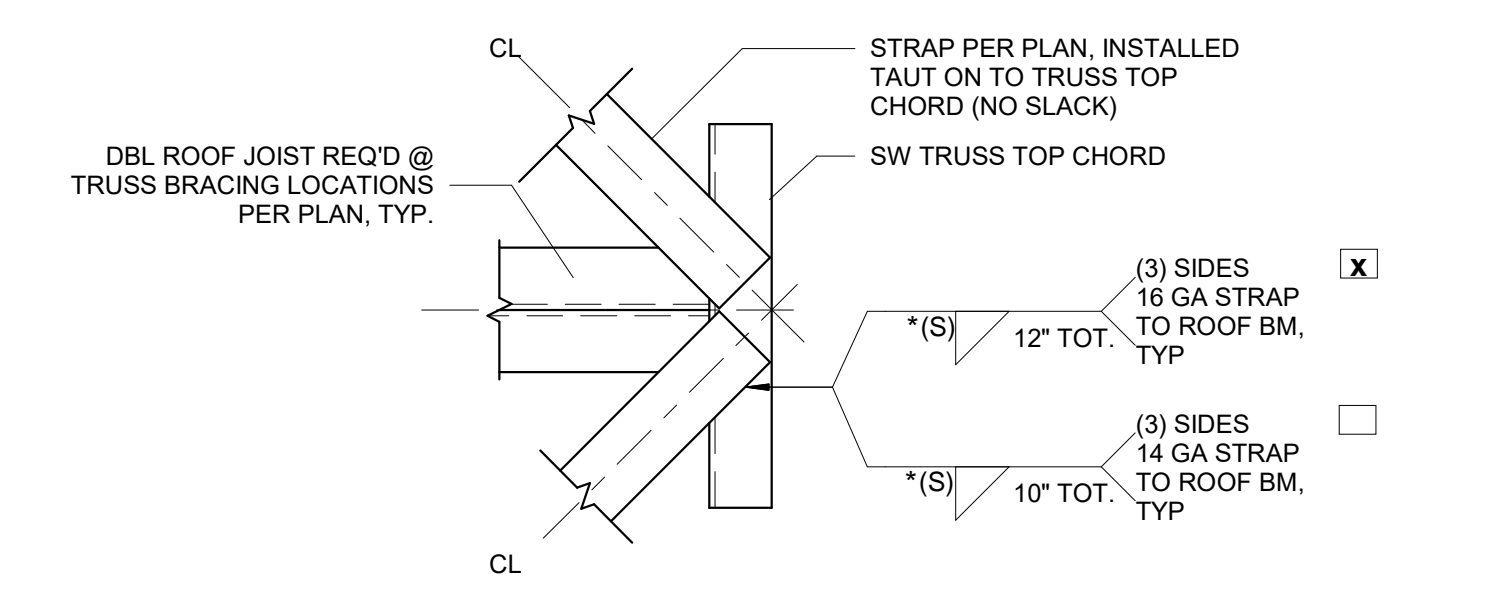


NOTES:
FOR CROSS STRAP DETAILS SEE 2 / ALT-S1 3 / ALT-S1 4 / ALT-S1 5 / ALT-S1
FIRE-SPRINKLER
ADDITIONAL ROOF JOIST FOR FIRE SPRINKLER LINE AS REQ'D
LOCATION OF FIRE SPRINKLER AND ADDITIONAL JOIST TO BE DETERMINED

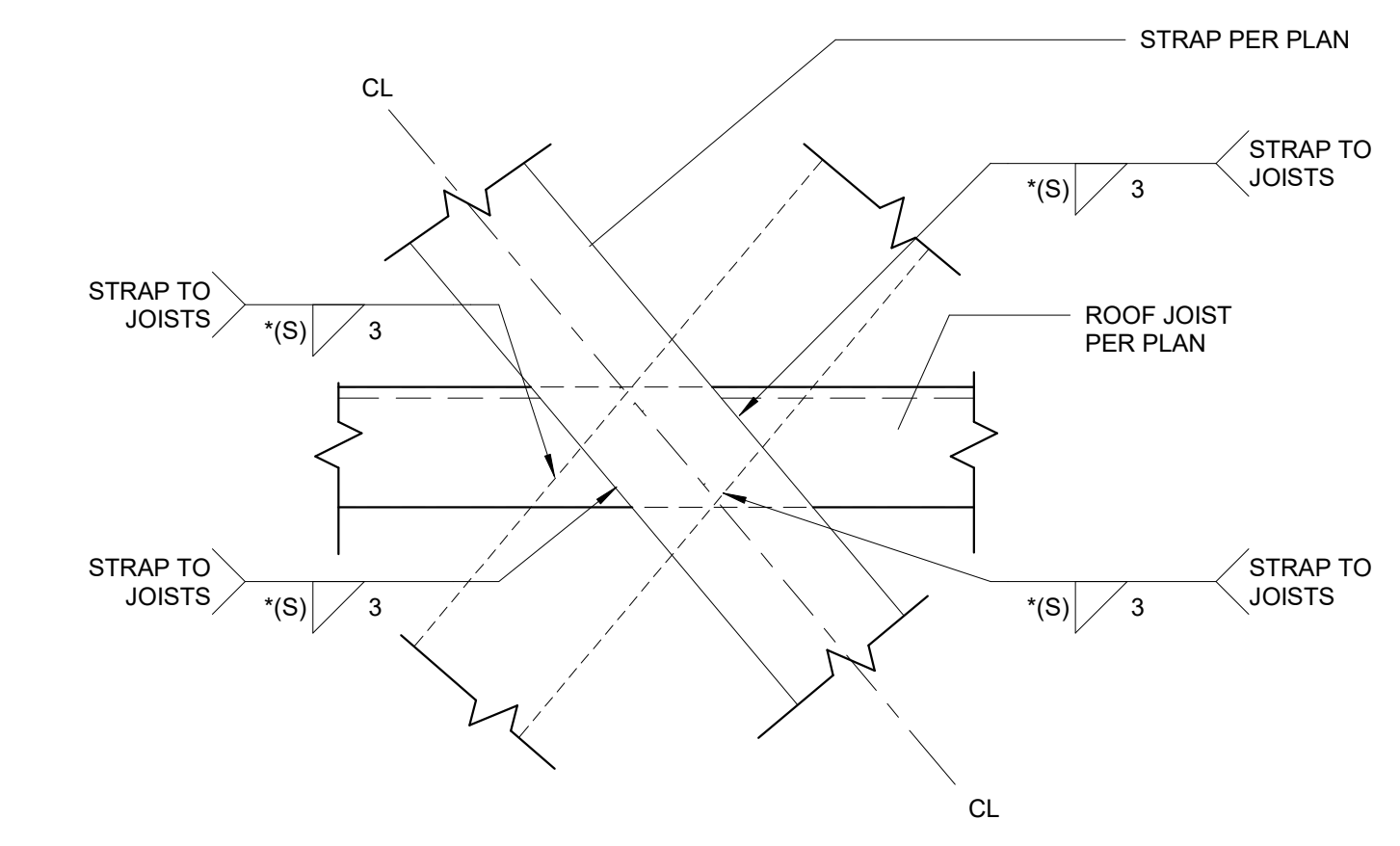
PV REQUIREMENTS:
1.7 REQUIRED PHOTOVOLTAIC (PV) SYSTEMS
WHEN A PV SYSTEM IS REQUIRED BY THE CALIFORNIA ENERGY CODE FOR A PC BUILDING CONFIGURATION, THE PV SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH IR 16-8. SOLAR PHOTOVOLTAIC AND THERMAL SYSTEMS REVIEW AND APPROVAL REQUIREMENTS. THE PC DESIGN SHALL SHOW THAT THE STRUCTURE CAN SUPPORT THE REQUIRED SYSTEM LOADS WHEN THE BUILDING IS SUPPORTING THE PV SYSTEM. IF THE PV SYSTEM IS REQUIRED IT WILL BE SUBMITTED WITH THE SITE SPECIFIC APPLICATION
8.3 REQUIRED PHOTOVOLTAIC (PV) SYSTEMS ENERGY REVIEW
WHEN A PV SYSTEM IS REQUIRED PER THE CALIFORNIA ENERGY CODE FOR A PC CONFIGURATION, THE SYSTEM POWER REQUIREMENTS SHALL BE CLEARLY DELINEATED ON THE PC PLANS IN THE DESIGN INFORMATION SECTION FOR THE PC. SEE SECTION 1.7 ABOVE FOR DESIGN AND SUBMITTAL REQUIREMENTS OF THE PV SYSTEM.



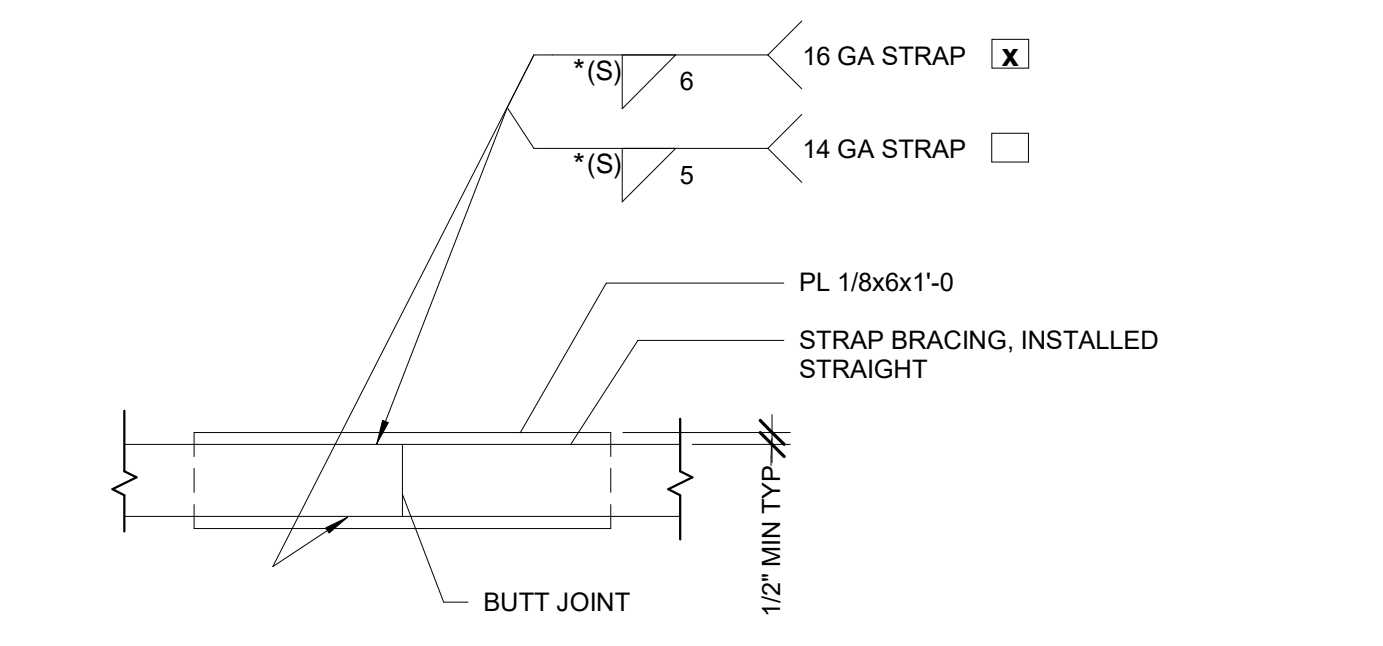
2 1 1/2" = 1'-0"
ROOF BRACING STRAP @ ENDWALL
* SIZE OF WELD (S) = THICKNESS OF THINNER MATERIAL



3 1 1/2" = 1'-0"
ROOF BRACING @ SIDEWALL
* SIZE OF WELD (S) = THICKNESS OF THINNER MATERIAL



4 3" = 1'-0"
STRAP TO JOIST CONNECTION (ROOF)
* SIZE OF WELD (S) = THICKNESS OF THINNER MATERIAL



5 1 1/2" = 1'-0"
STRAP SPLICE DETAIL (ROOF)
* SIZE OF WELD (S) = THICKNESS OF THINNER MATERIAL

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
DESIGN & CONSULTING PROJECT MEET
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WWW.R&STAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FLORES
63380
03/31/24
PC TAVARES
STATE OF CALIFORNIA
05/24/23
RST#22088

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CLIENT

Class Leasing
1651 S. Juanita Street, San Jacinto, CA 92583
VOICE (951) 943-1908 FAX (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule		
#	Description	Date
2	CCD_002	11/2/2023

PRE-CHECK (PC) ALTERNATE DOCUMENT
CODE: 2019 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
DUAL SLOPE ROOF
FRM'G PLAN
CROSS-STRAP
OPT.

PROJECT NUMBER
22088

DRAWN BY
MJM

CHECKED BY
RHrMc

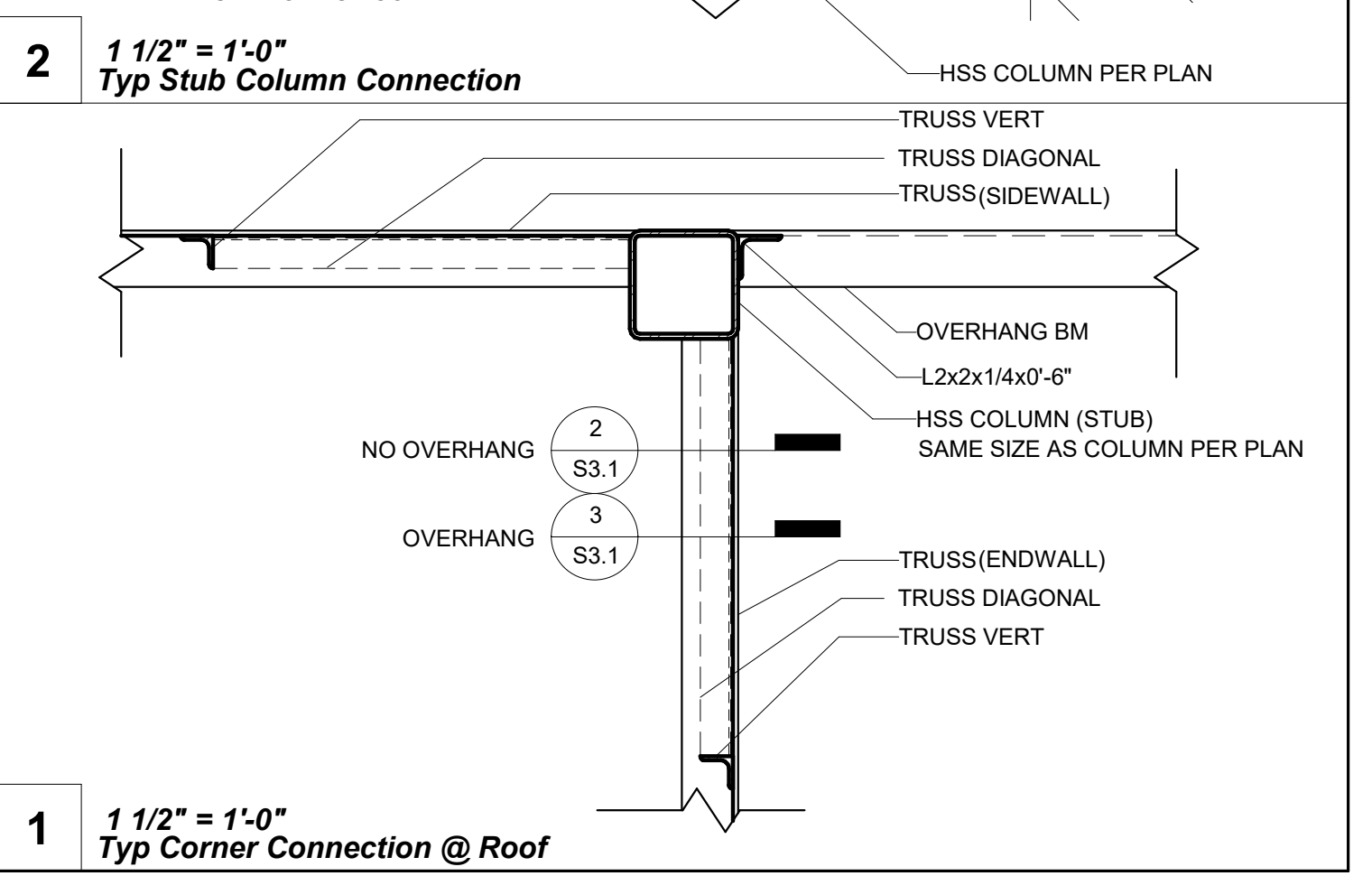
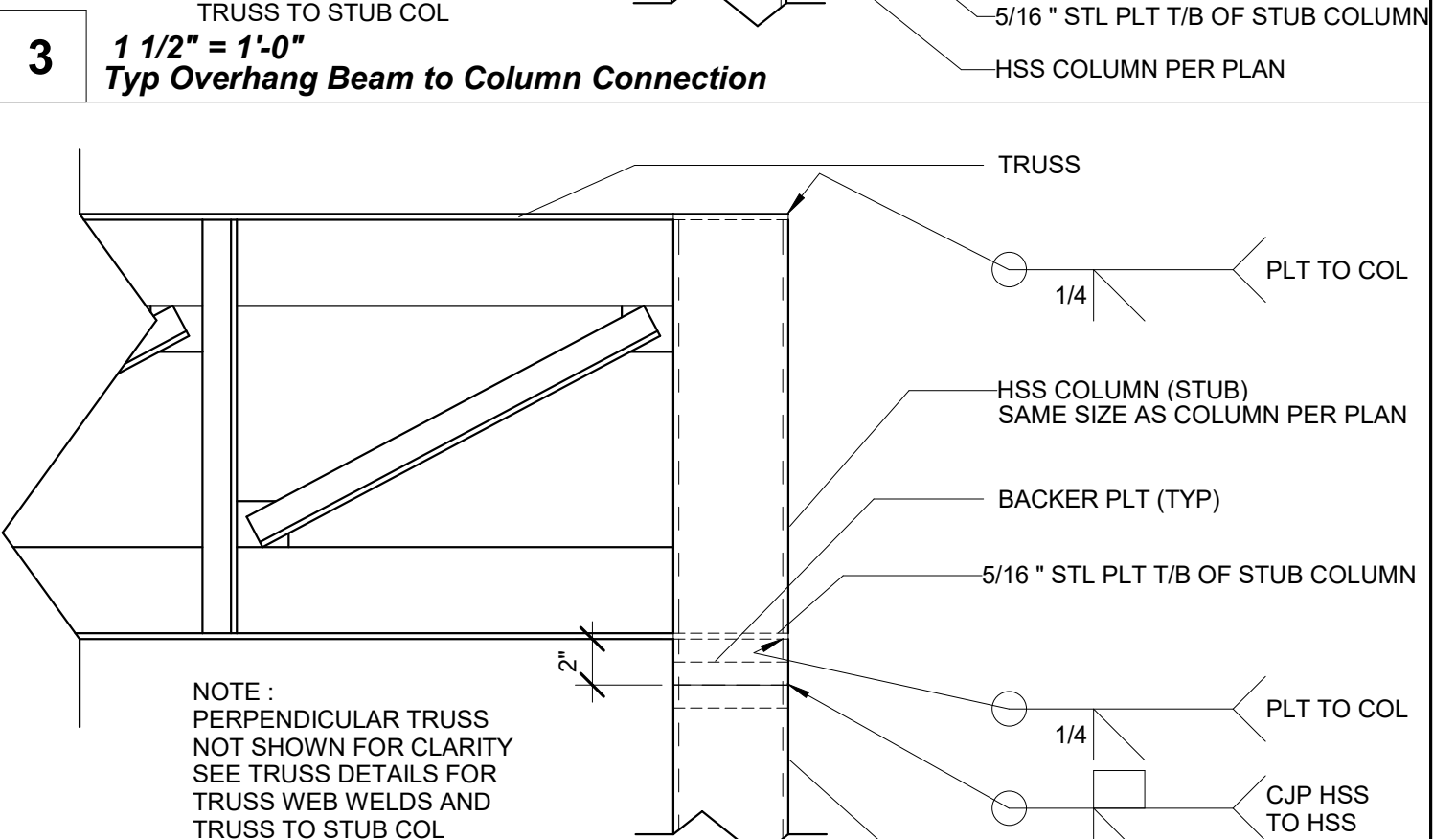
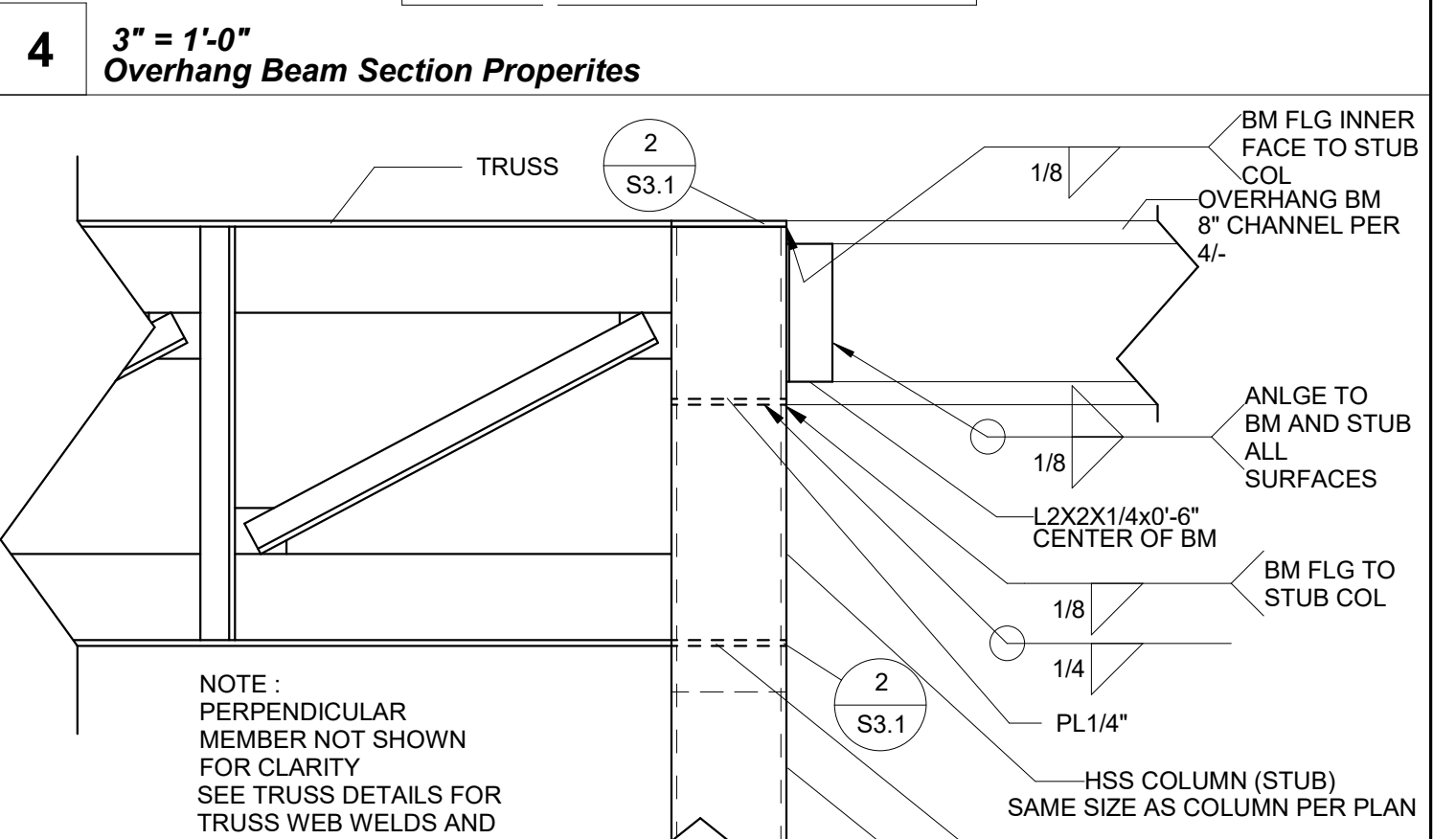
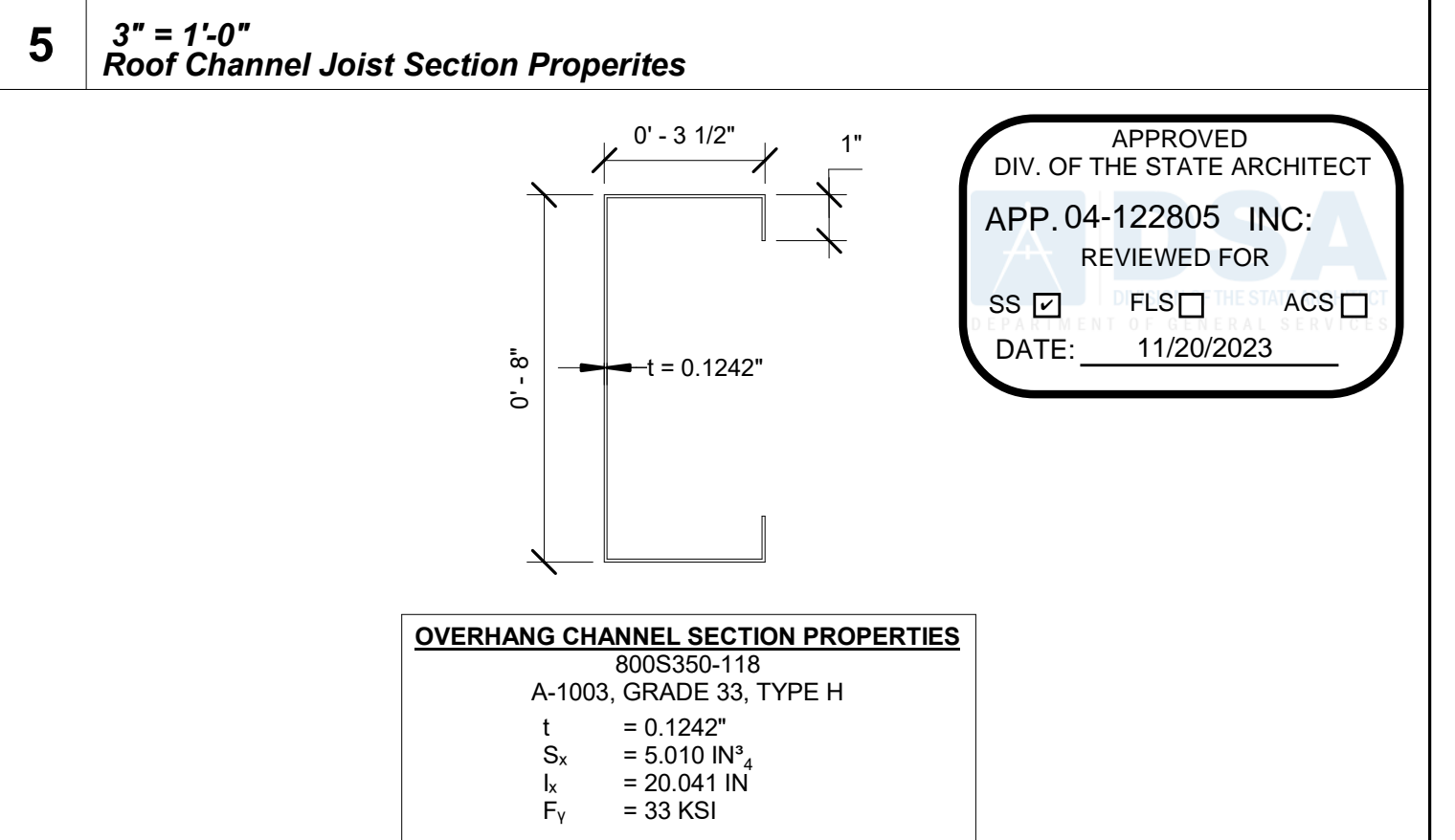
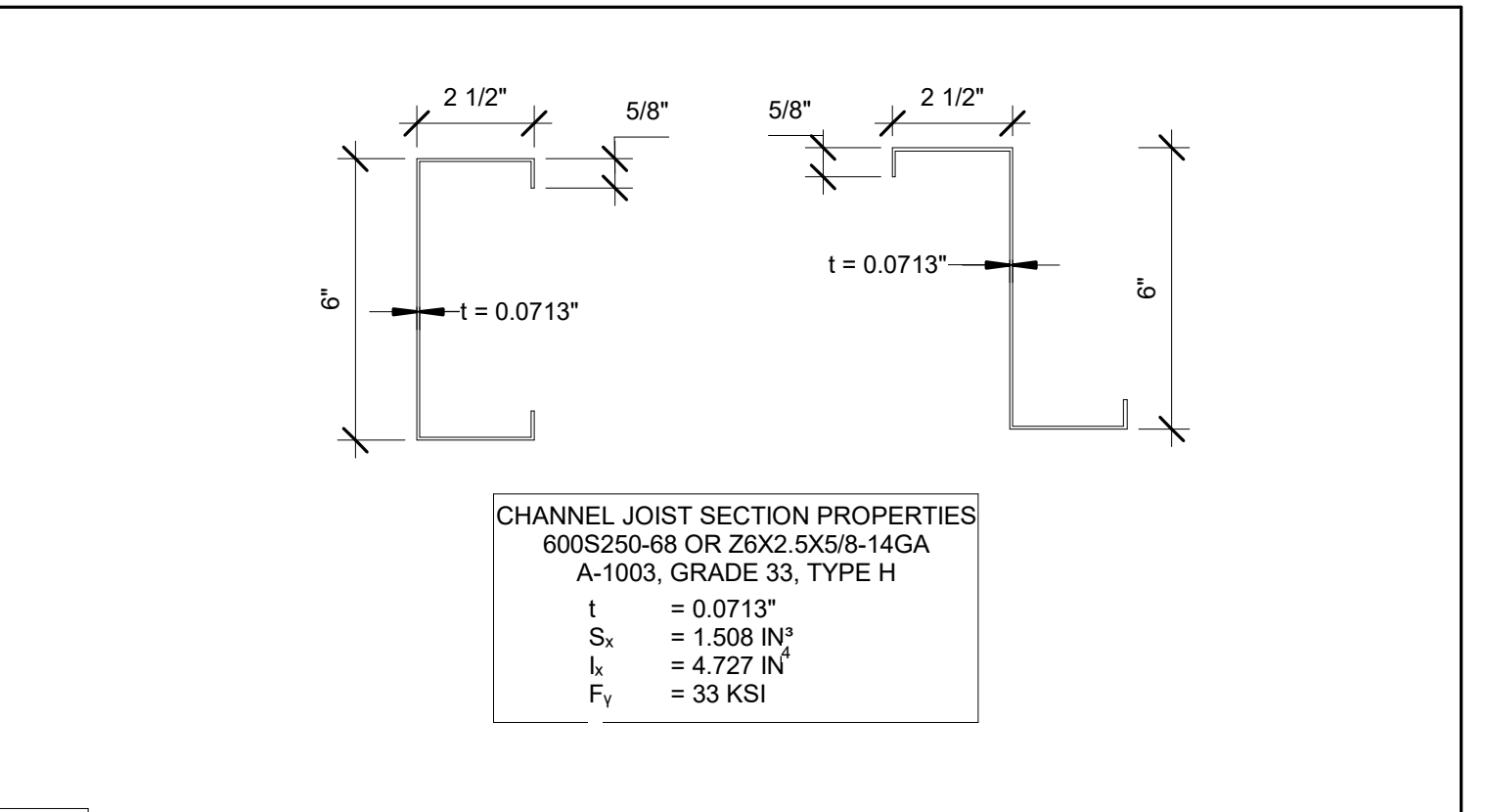
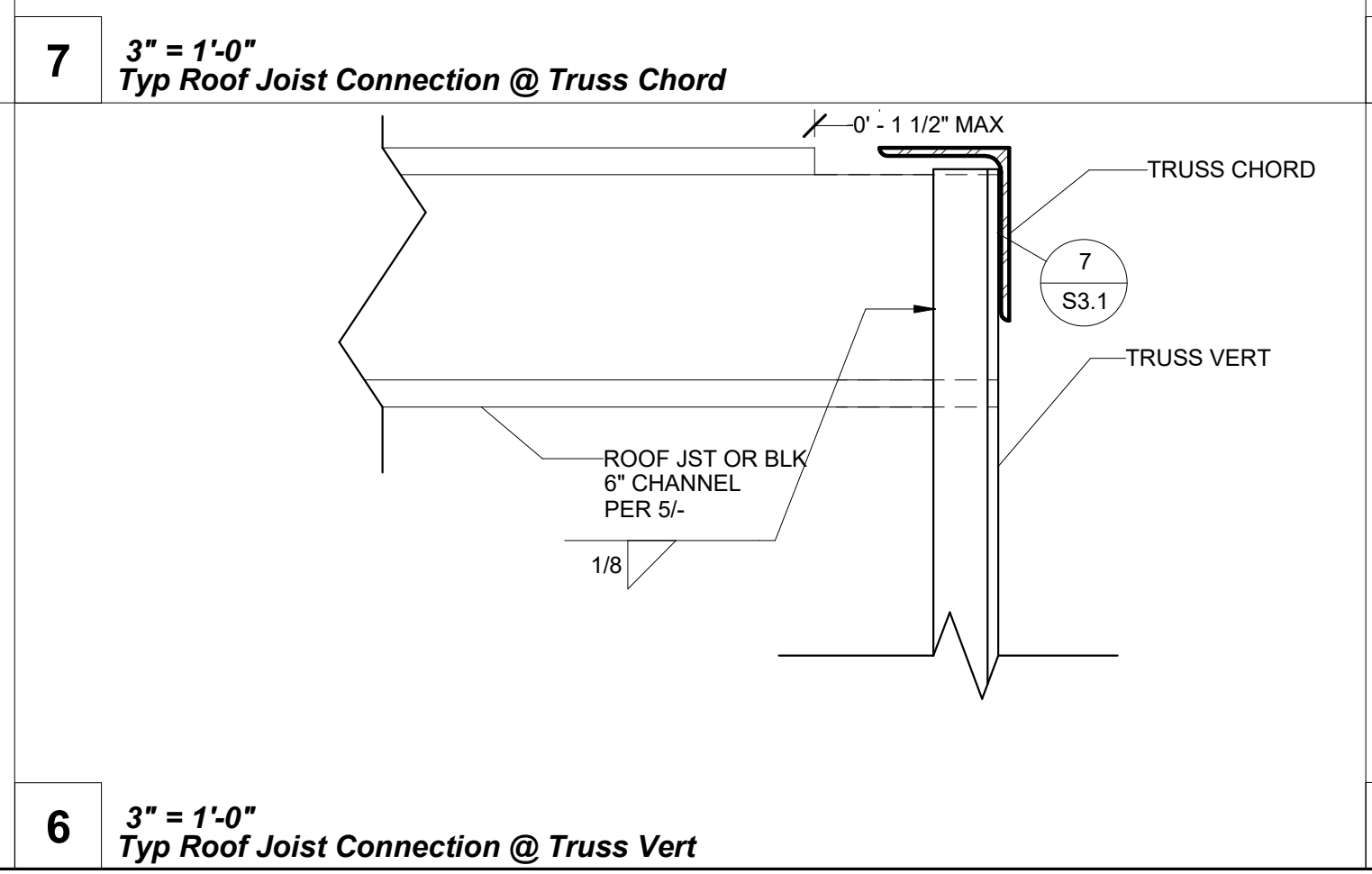
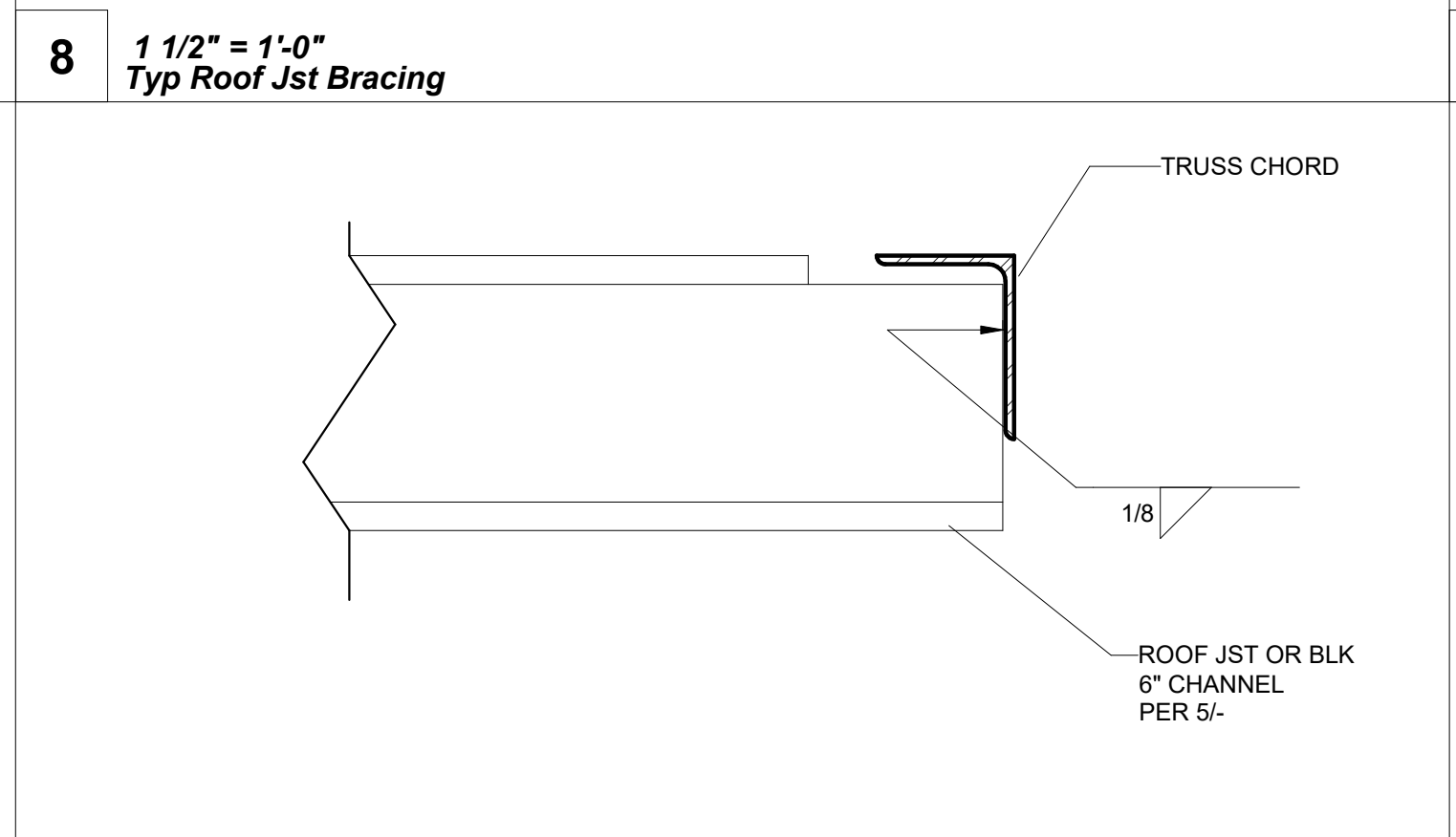
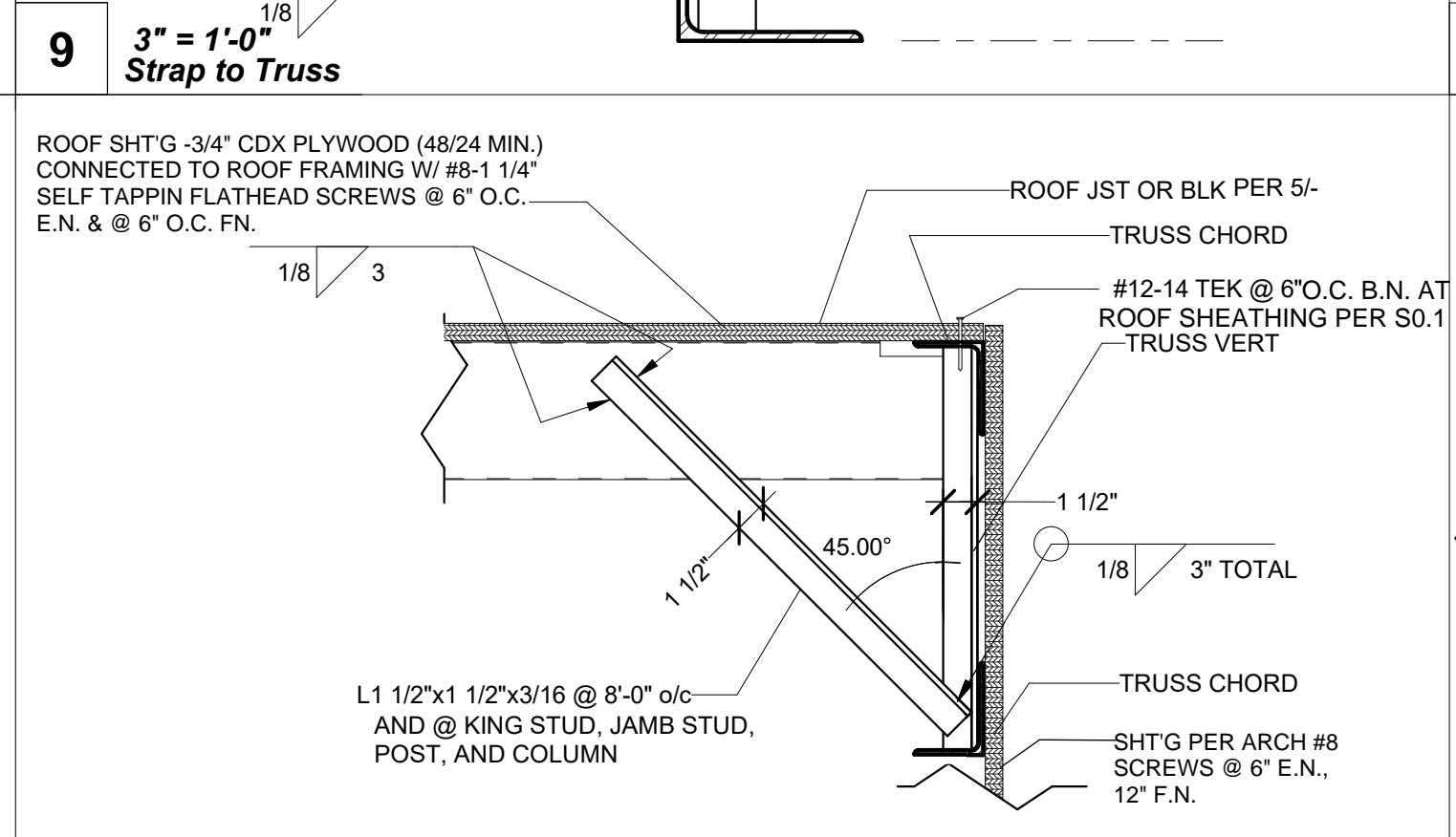
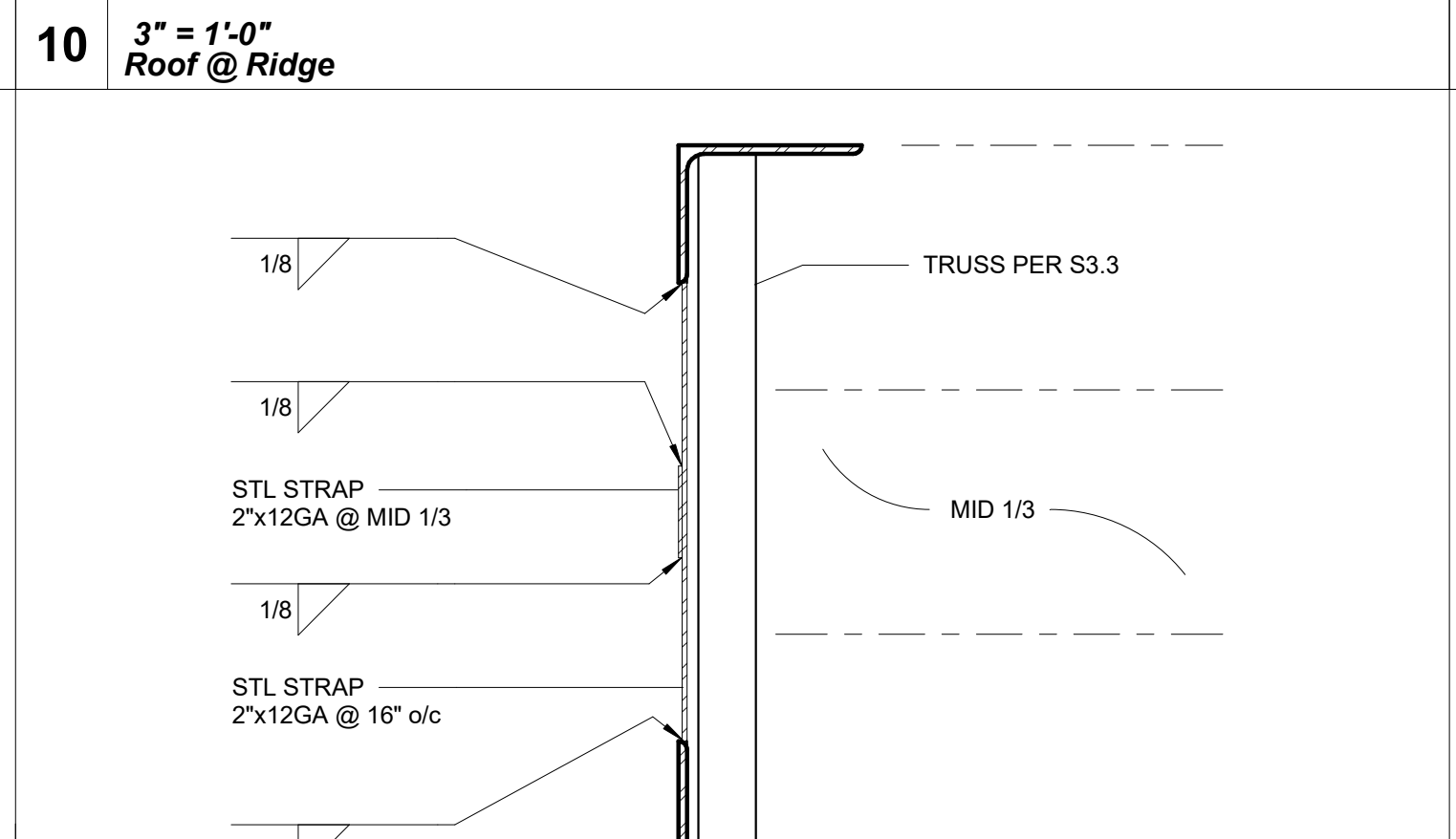
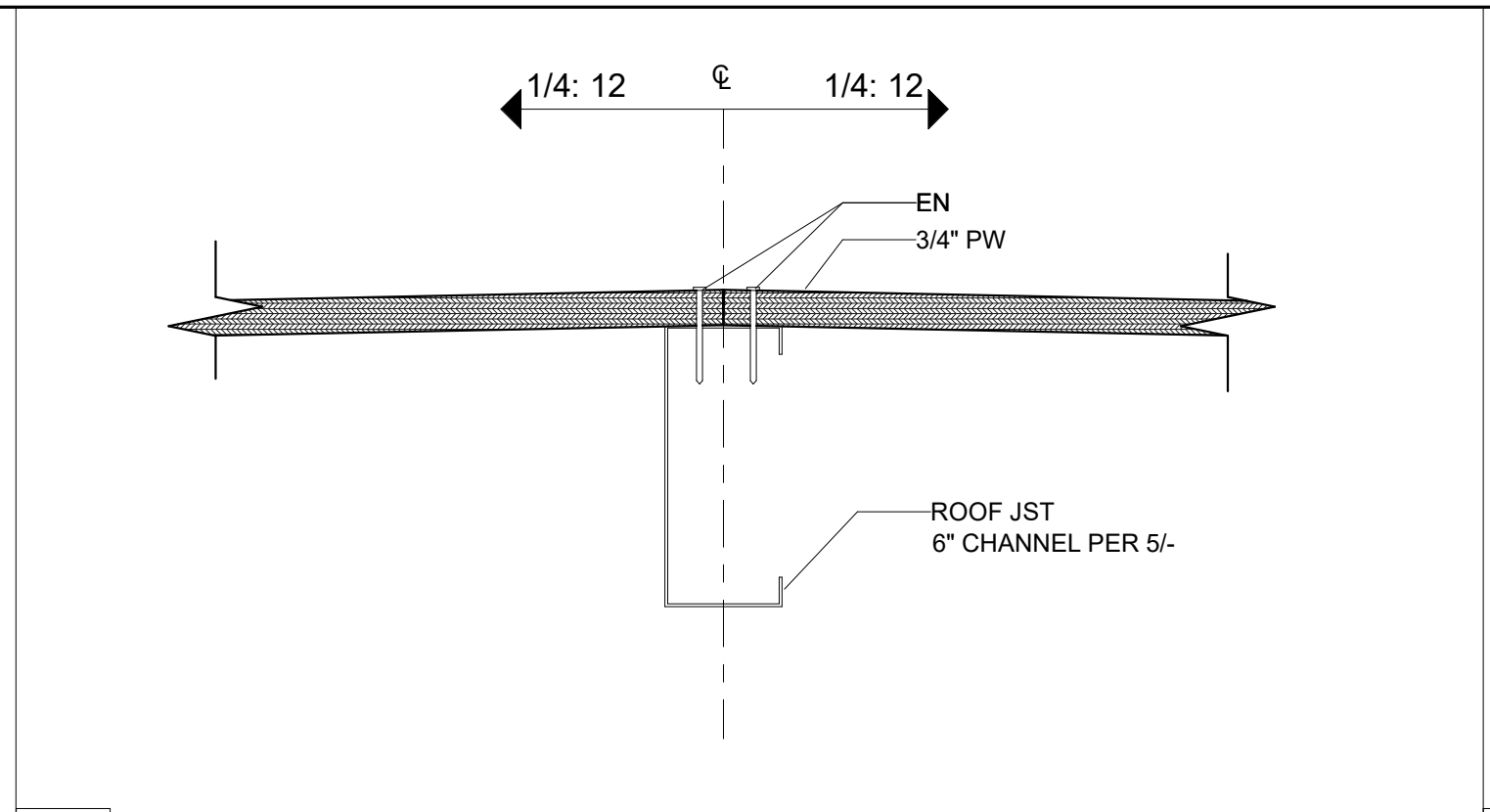
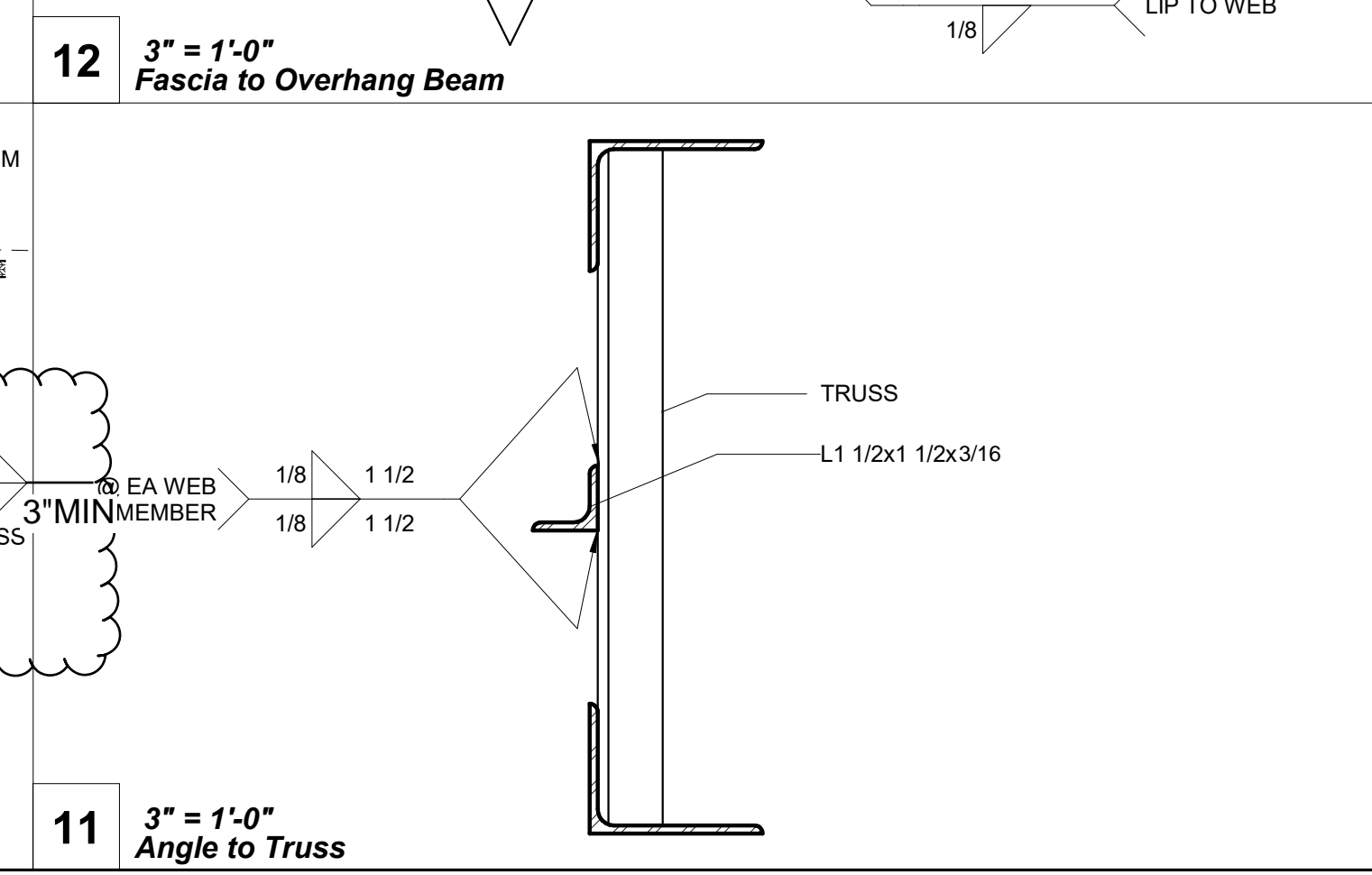
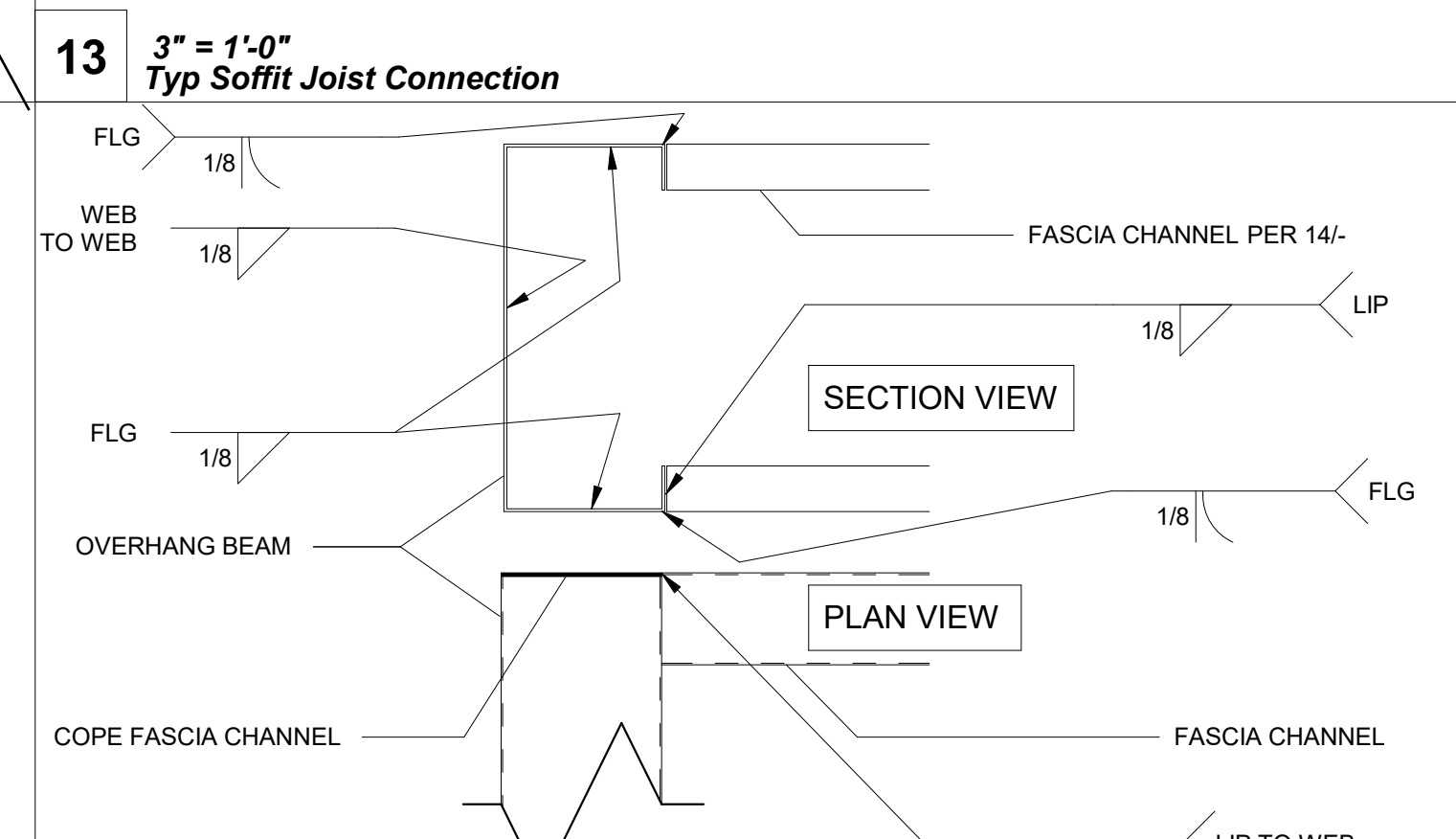
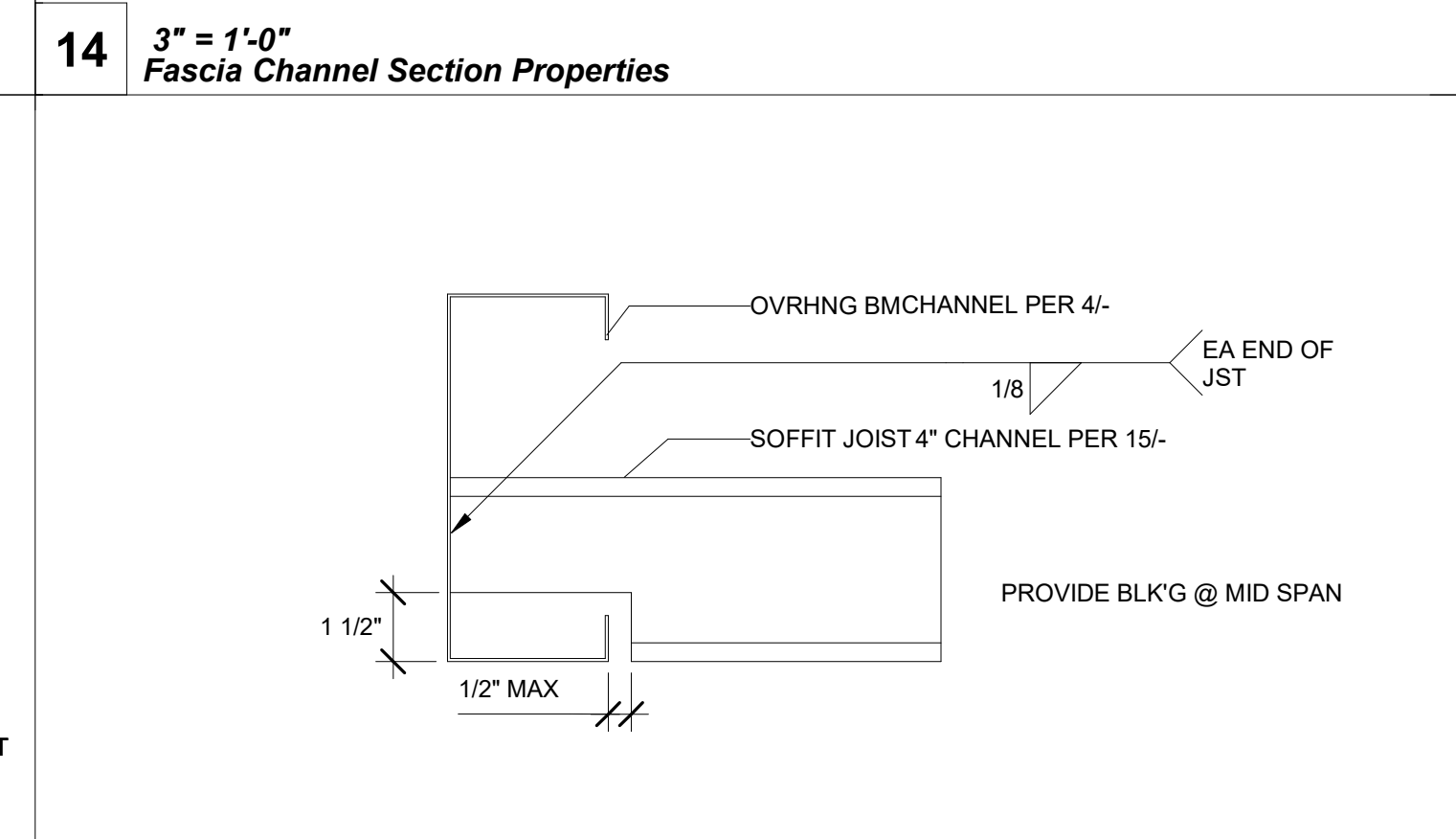
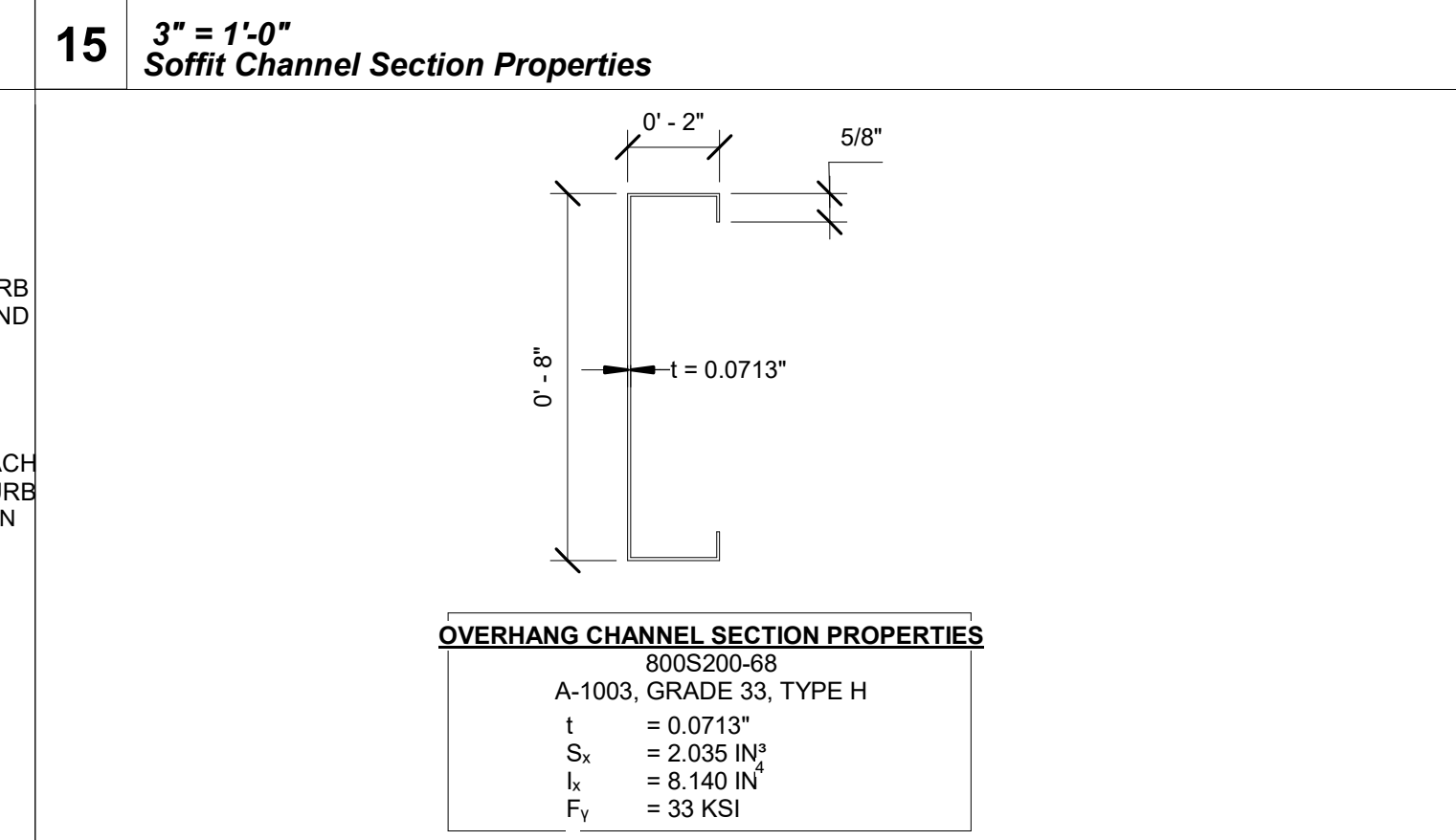
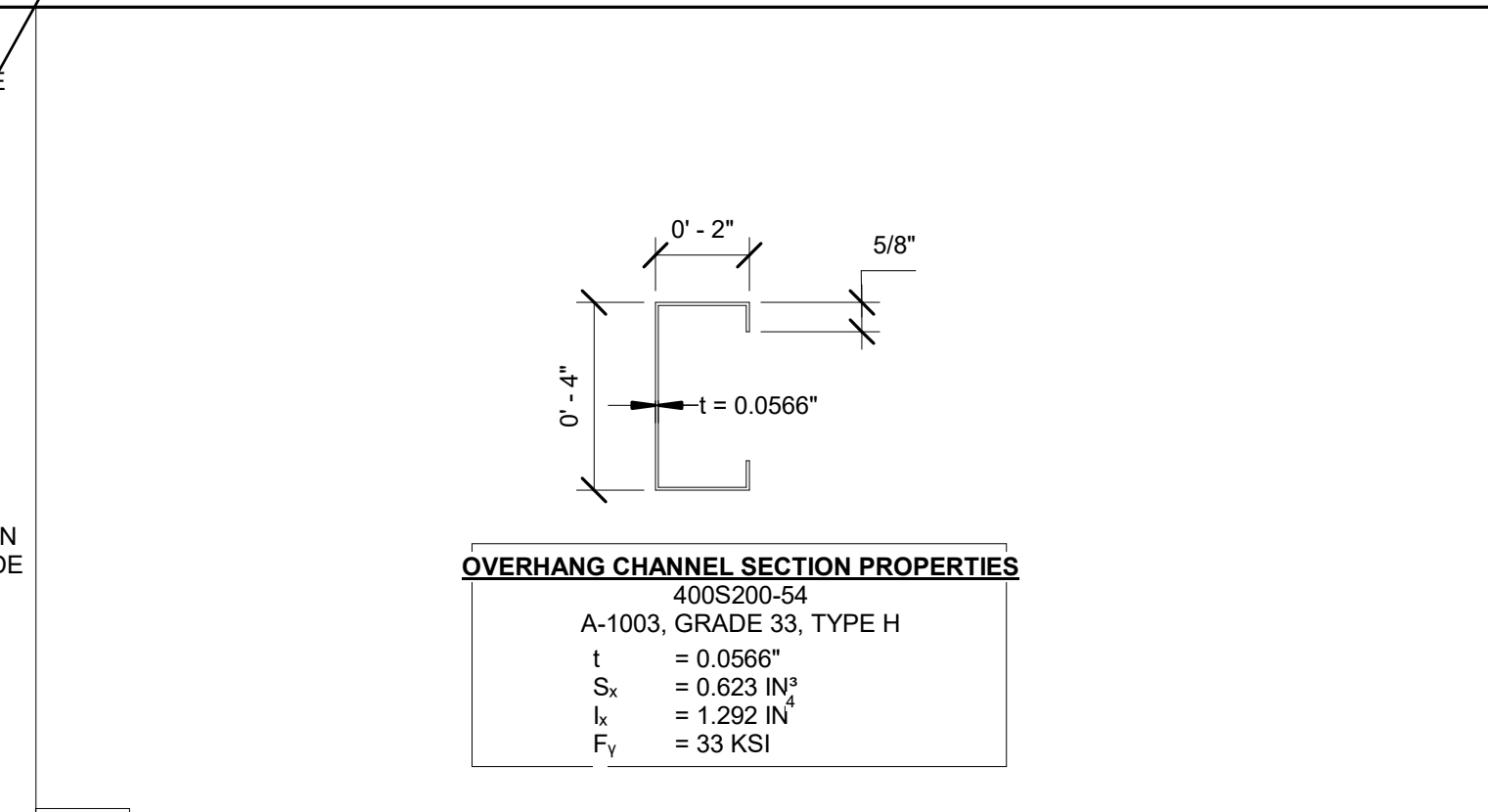
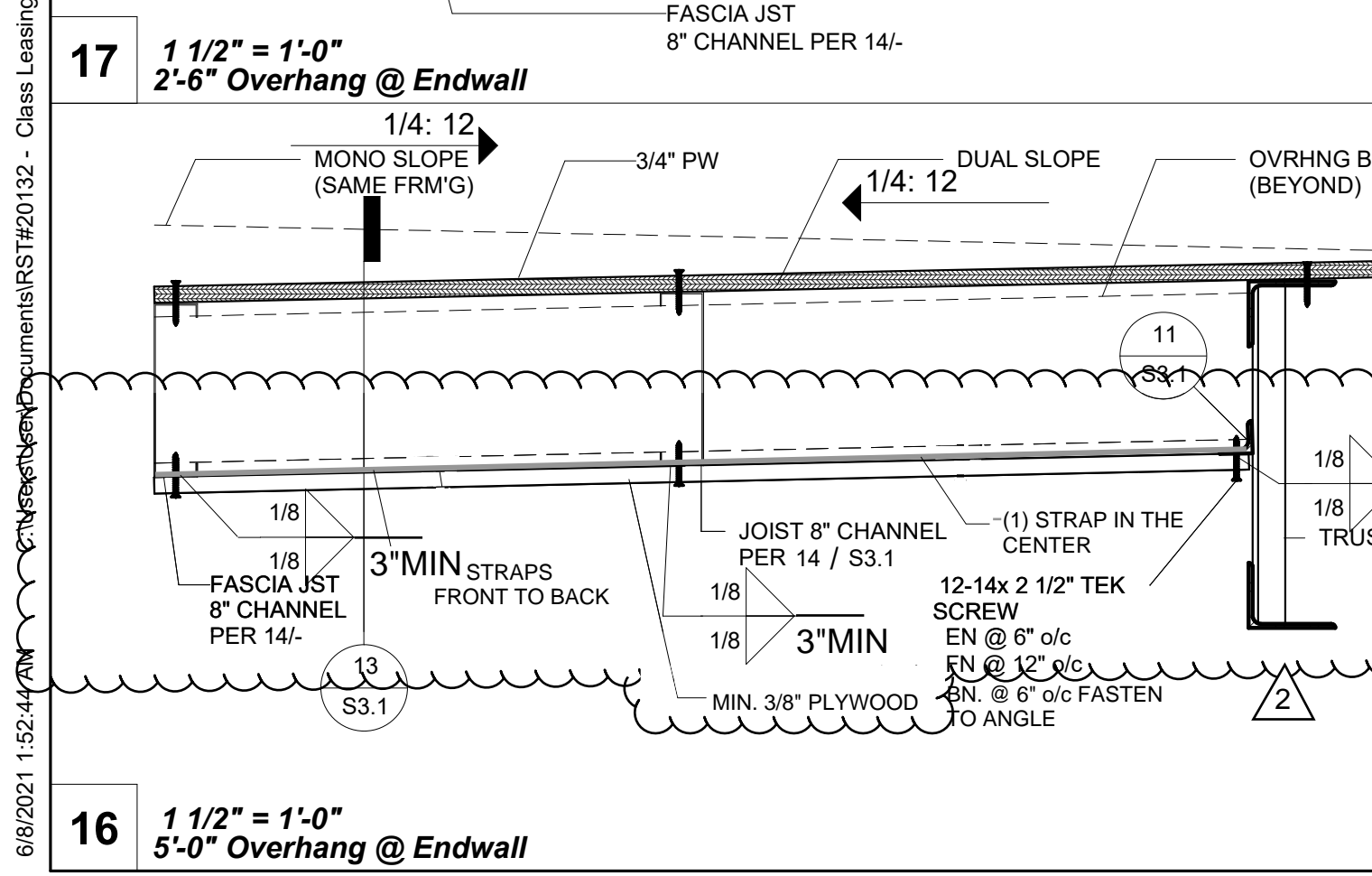
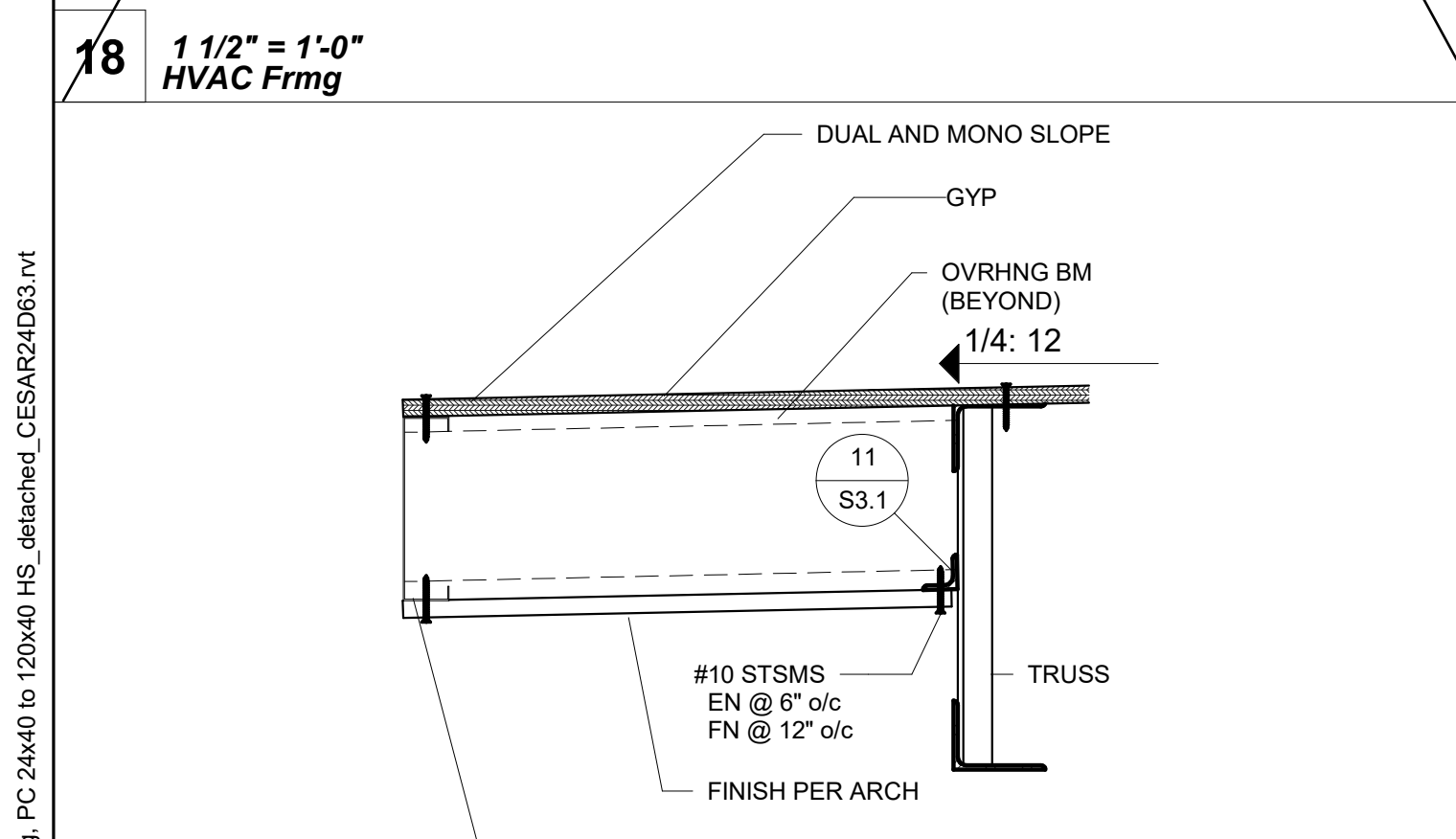
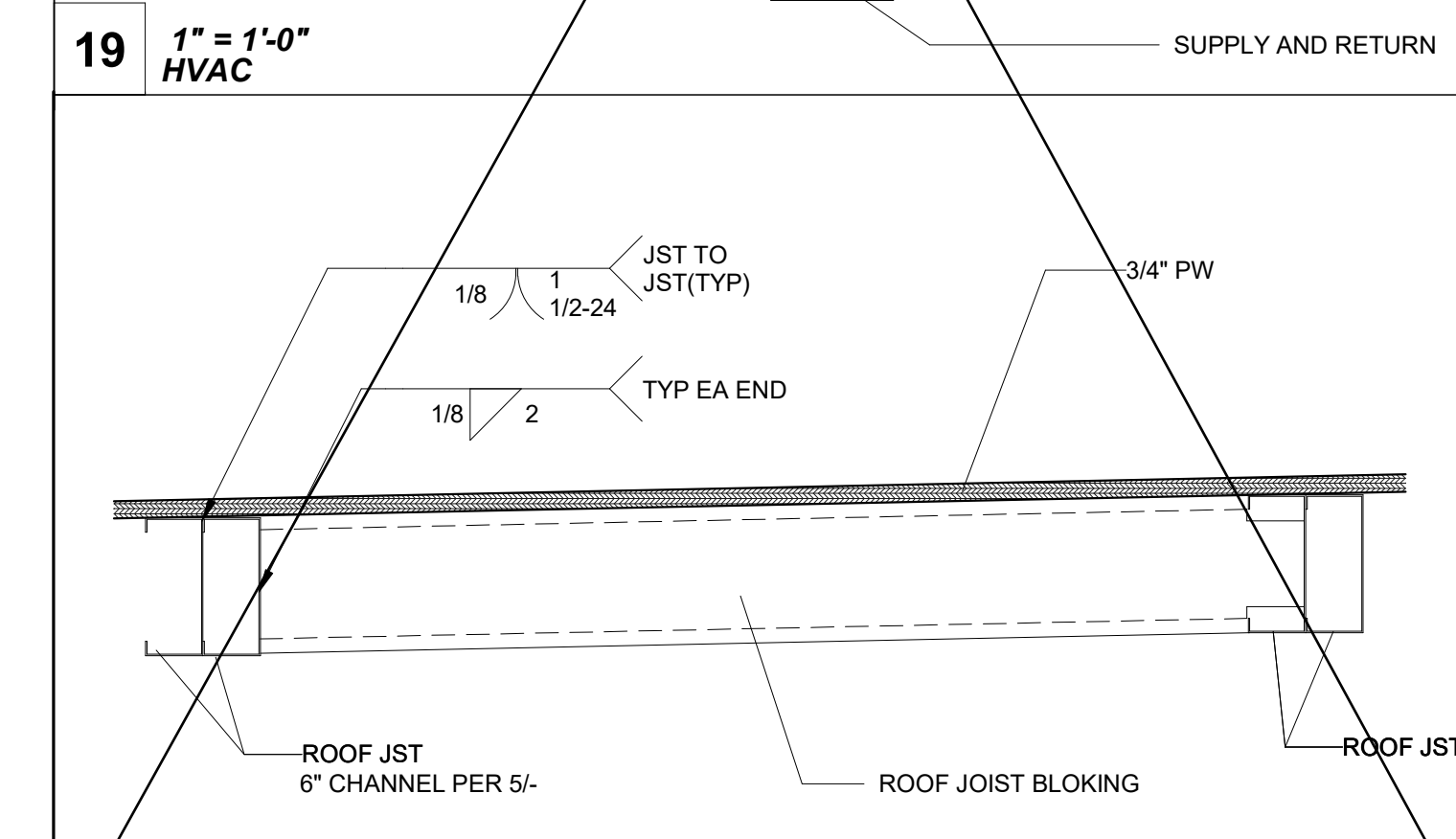
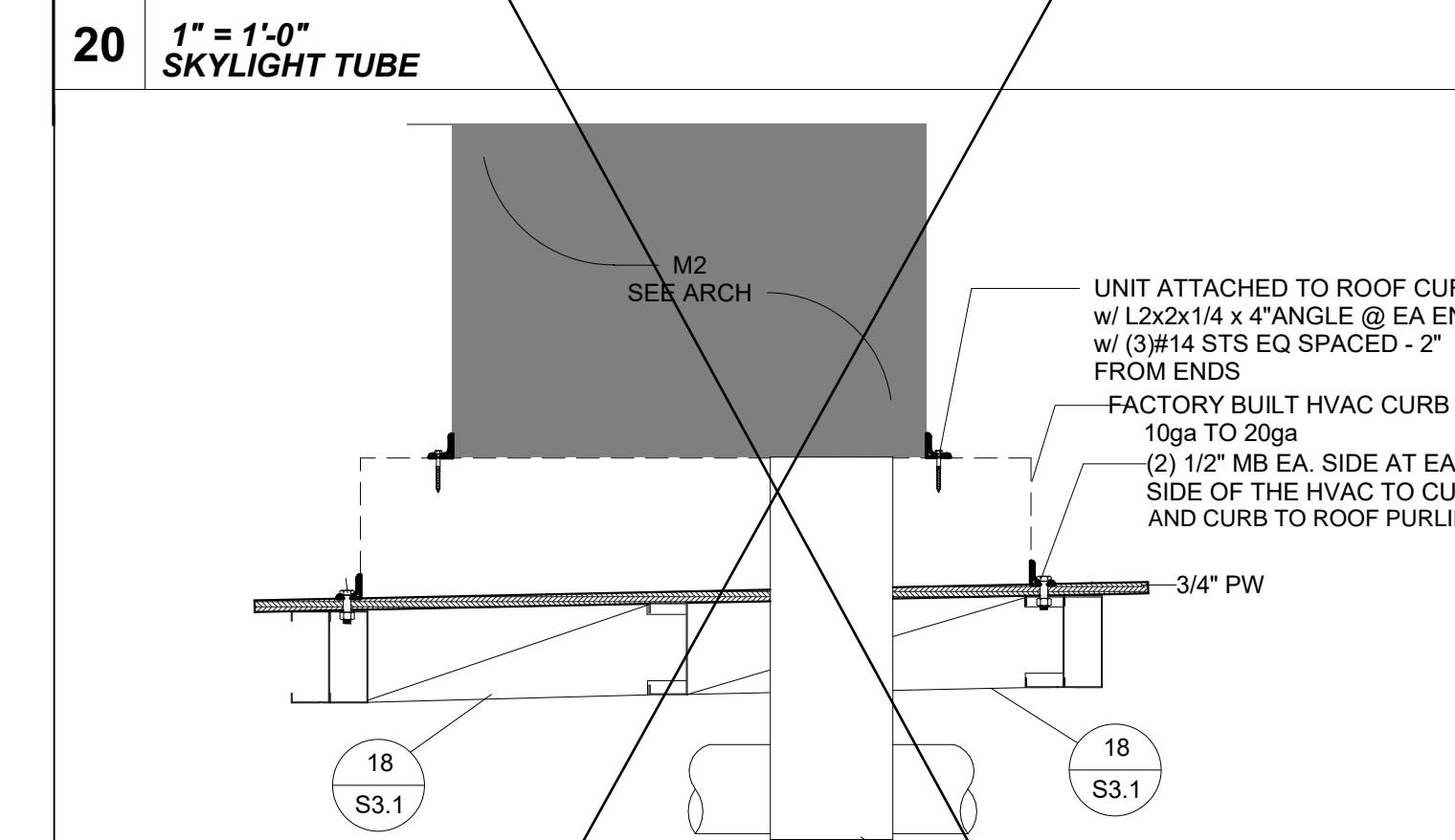
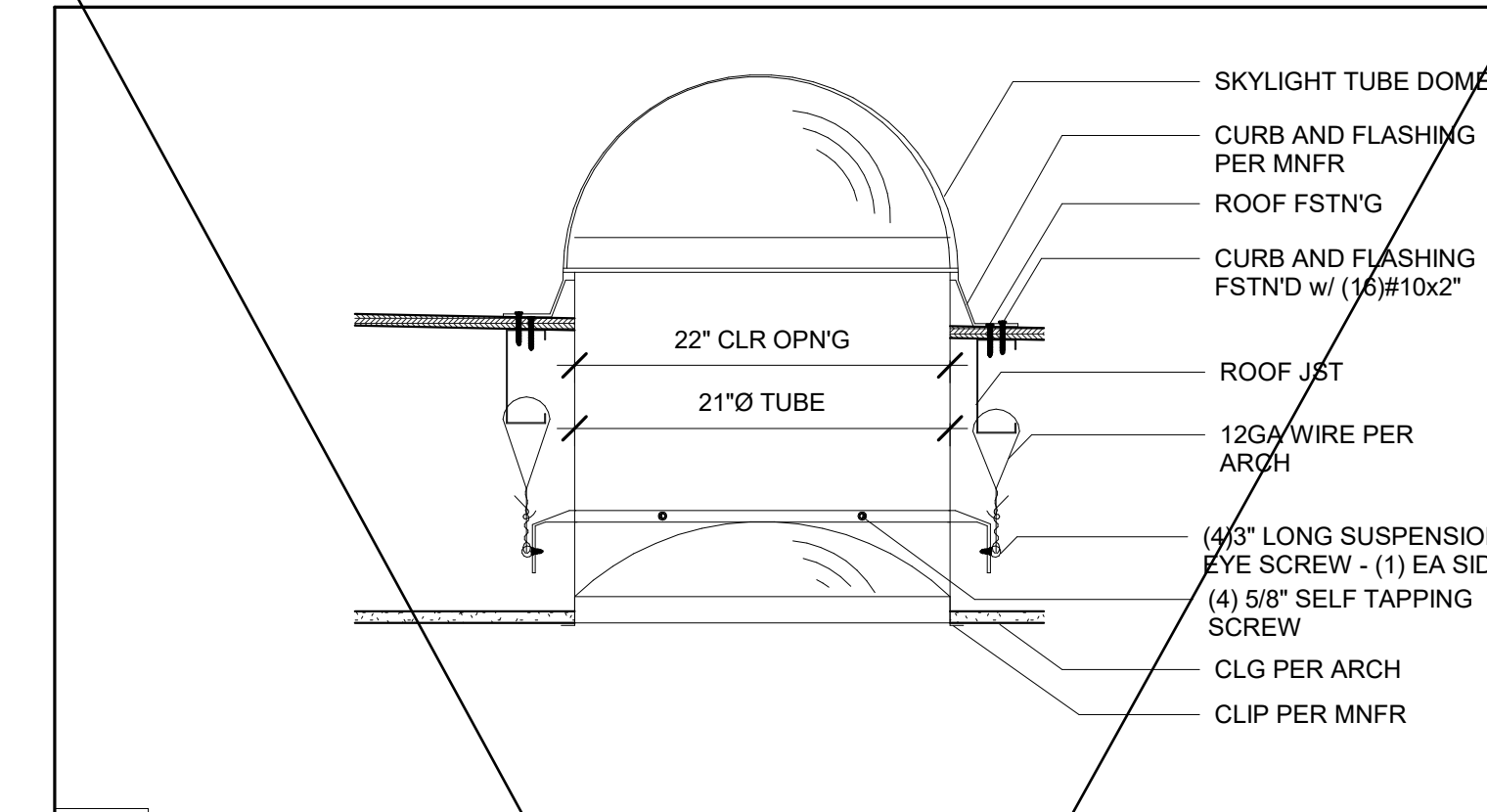
DATE
06/07/2021

SHEET NO.
S3.0.4

SHEET OF

1 1/4" = 1'-0"
Dual Roof Framing Plan CROSS-STRAP OPT.

6/8/2021 1:52:44 PM C:\Users\jmc\Documents\RS\20132 - Class Leasing_PC 24x40 to 120x40 HS_detached_CESAR24D63.rvt



PROJECT SPECIFIC STATE AGENCY APPROVAL
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-122805 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 09/28/2023

R&S TAVARES ASSOCIATES
 DESIGN & CONSULTING & PROJECT MGT
 11500 W BERNHARD COURT, SUITE 100
 SAN DIEGO, CA 92127
 WWW.RSTAVARES.COM

PROFESSIONAL STAMP
 REGISTERED PROFESSIONAL ARCHITECT
 MANNY D. FRIEDL
 63380
 03/31/24
 CALIFORNIA
 STATE OF CALIFORNIA
 DATE: 05/24/23
 RST#22088

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CLIENT
Class Leasing
 1320 W. Oleander Ave, Perris CA 92571-7408
 VOICE (951) 943-1908/Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL
 APPROVED
 DIV. OF THE STATE ARCHITECT
 APP. 04-121368 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 09/22/2023

Revision Schedule		
#	Description	Date
2	CCD_002	11/2/2023

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
STRUCTURAL DETAILS (ROOF)

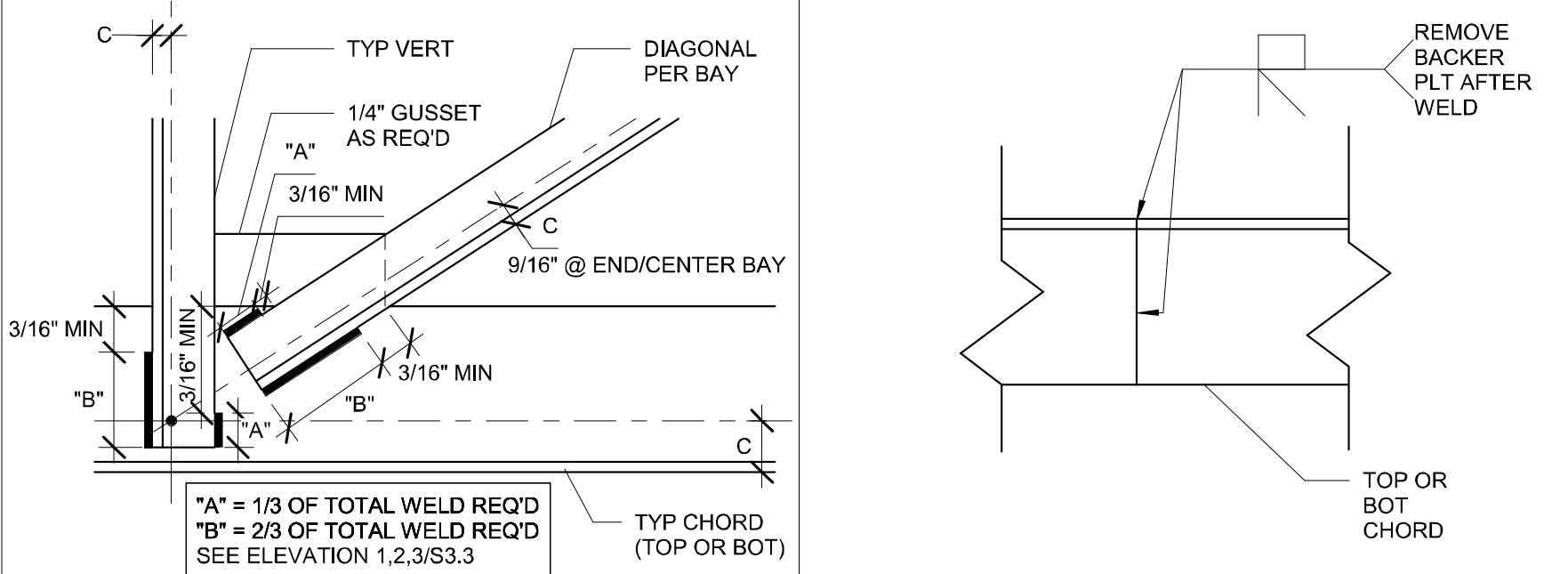
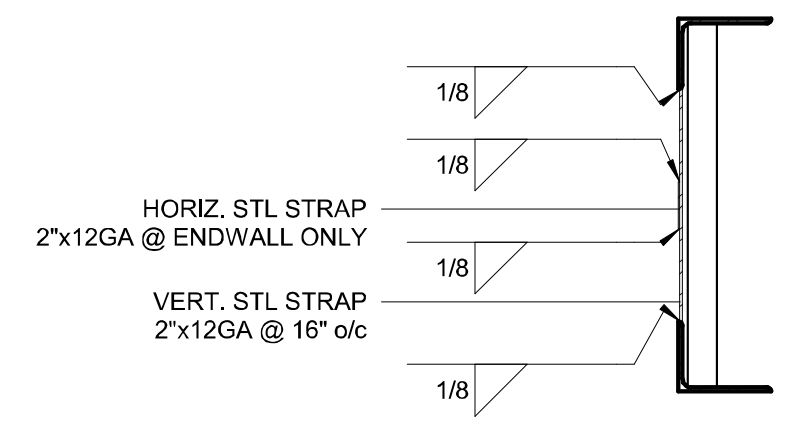
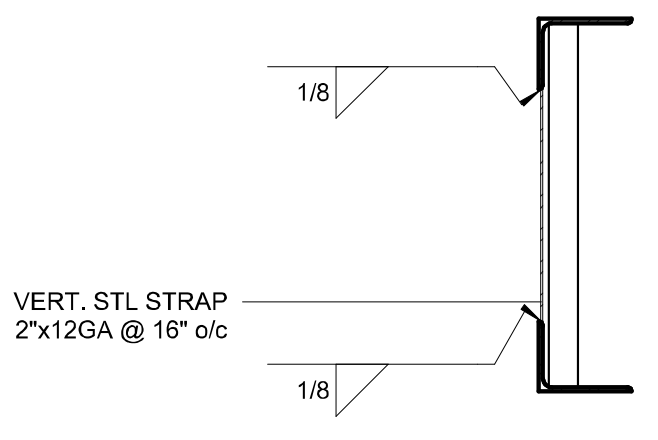
PROJECT NUMBER
22088
 DRAWN BY
rMc/SC
 CHECKED BY
JA/RT
 DATE

 SHEET NO.
S3.1
 SHEET OF

TABLE A-SECTION CENTROID	
SECTION	CENTROID C
L4X3 (LV)	1 1/4"
L4X3 (LH)	3/4"
L2X2X3/16	9/16"
L1.5X1.5X3/16	7/16"

NOTE: SEE DETAIL 8 / S3.3

12 1/2" = 1'-0"
TABLE A - SECTION CENTROID

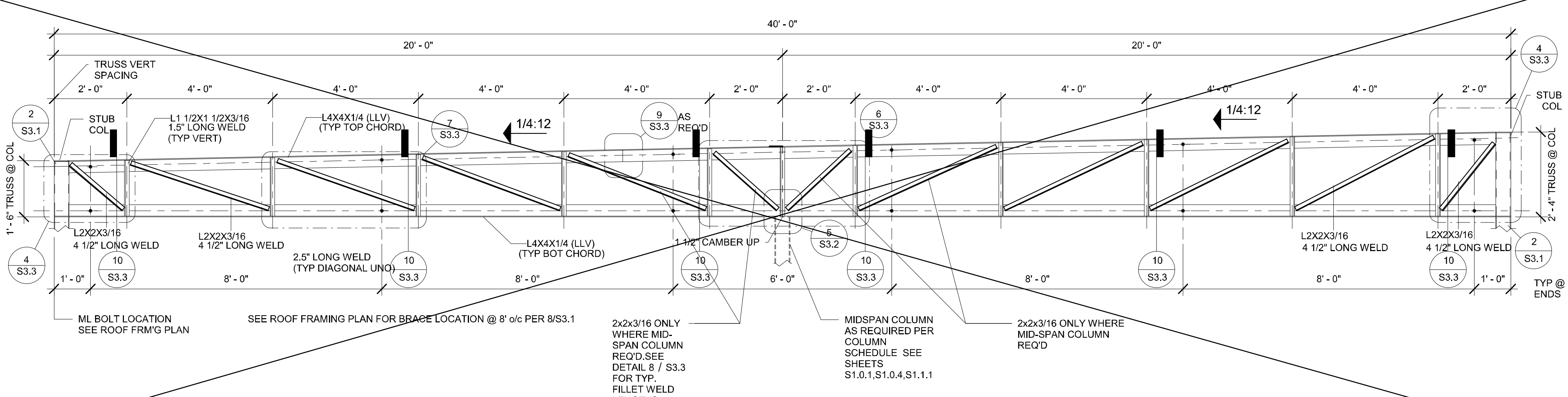


8 3" = 1'-0"
Typ Fillet Weld Lengths

9 3" = 1'-0"
Typ Truss Chord Splice

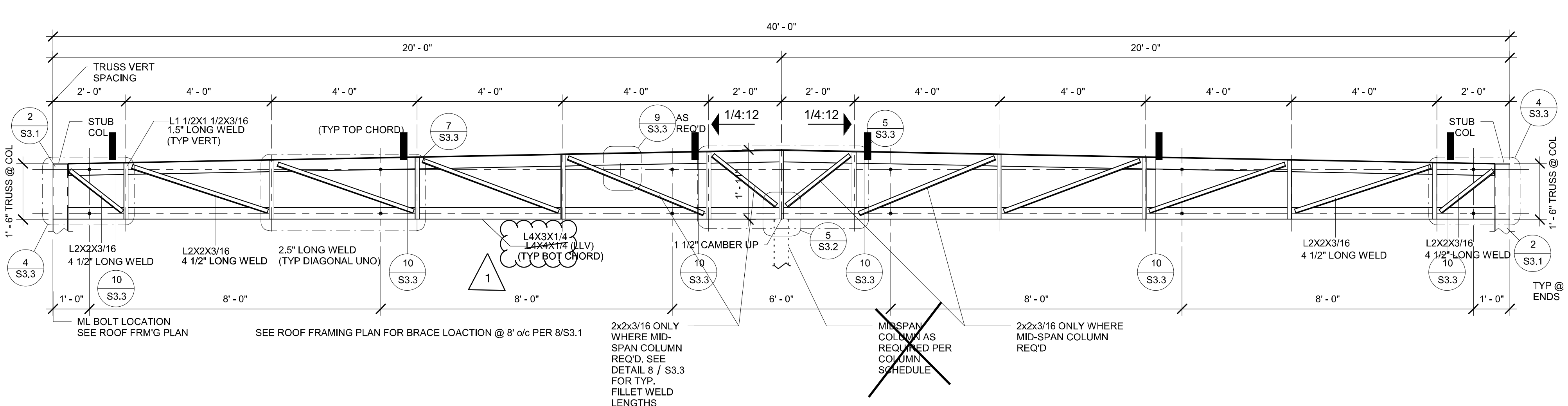
3 1" = 1'-0"
End Wall Truss

10 3" = 1'-0"
TRUSS CONN. @ MATELINE



2 1/2" = 1'-0"
Mono Truss

6 1 1/2" = 1'-0"
Typ Truss @ Center Bay (Mono Slope)



1 1/2" = 1'-0"
Dual Truss

5 1 1/2" = 1'-0"
Typ Truss @ Center Bay (Dual Slope)

4 1 1/2" = 1'-0"
Typ End Bay to Stub Conn

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#	Revision Description	Date
1	AMEND CALL OUT PER CALCS	10-11-23

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE
ROOF PERIMETER TRUSS

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

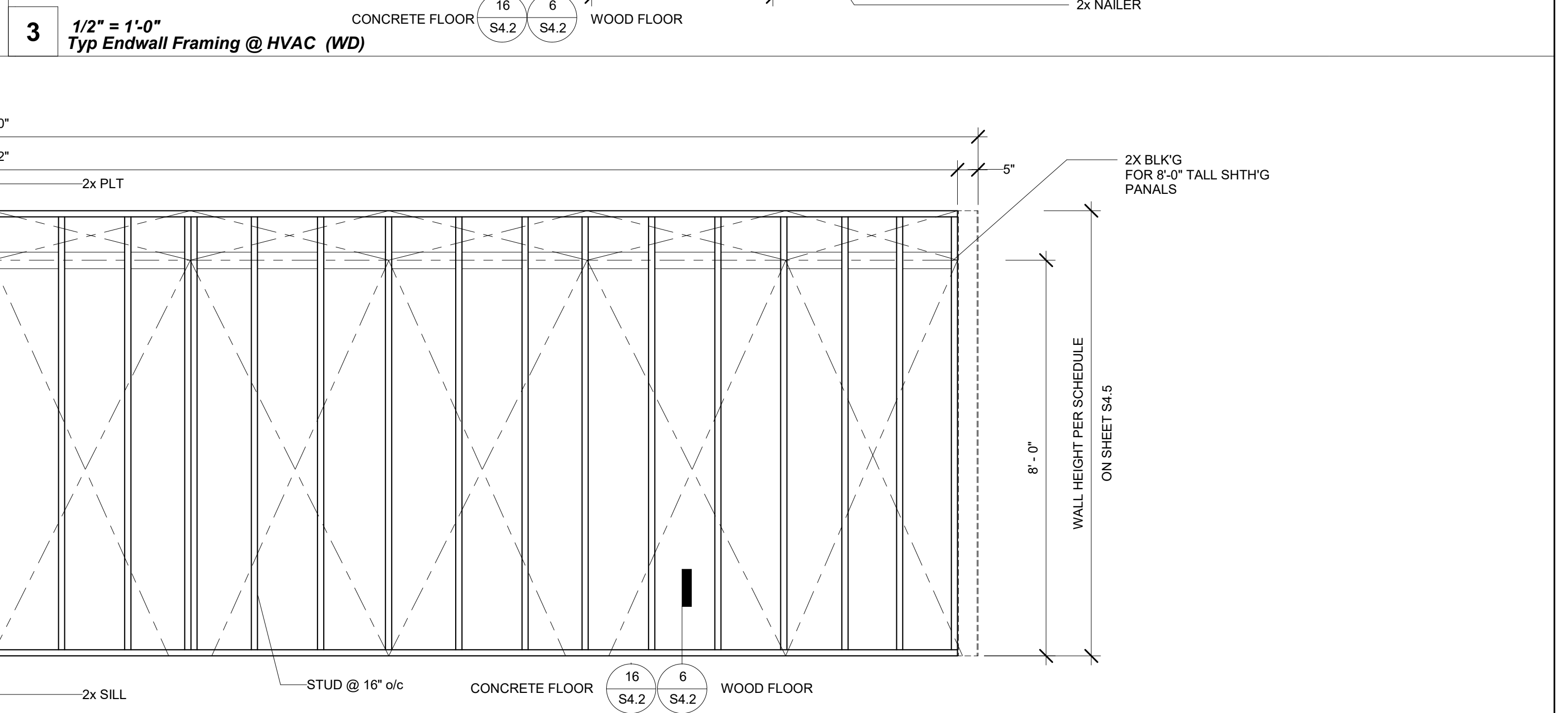
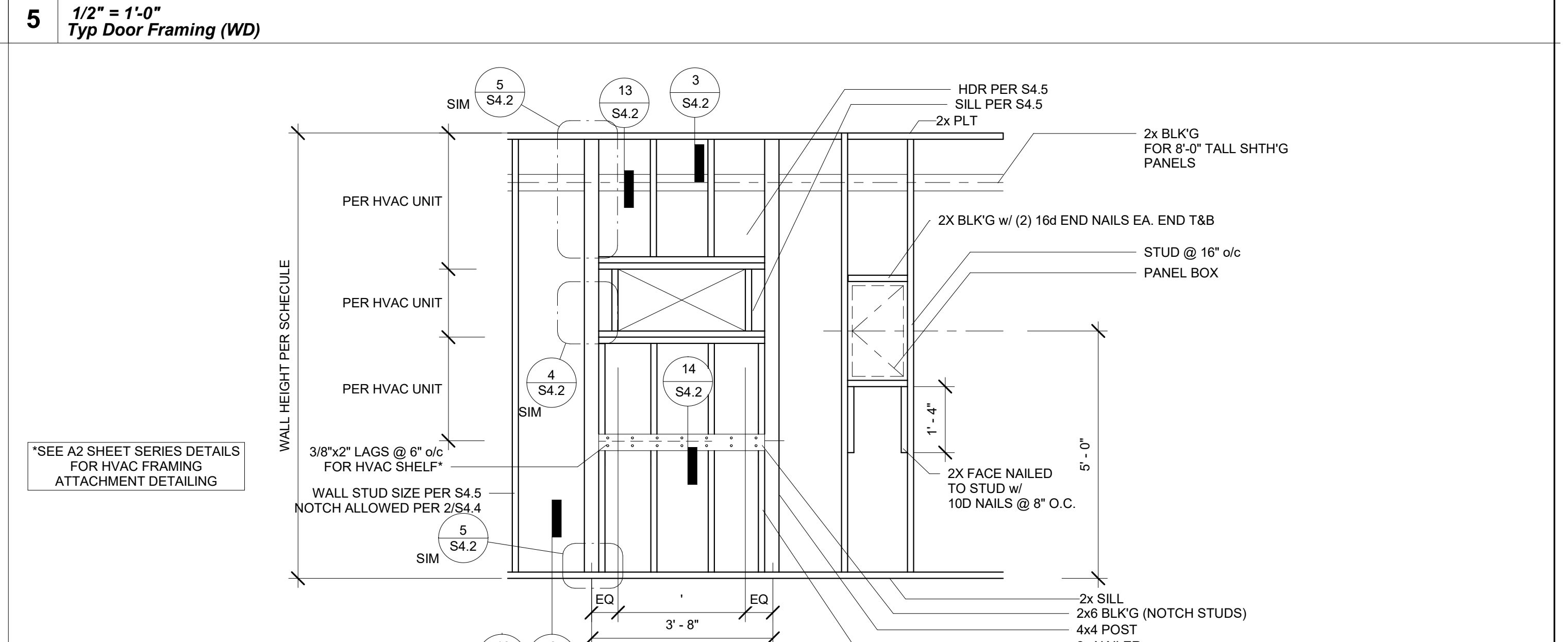
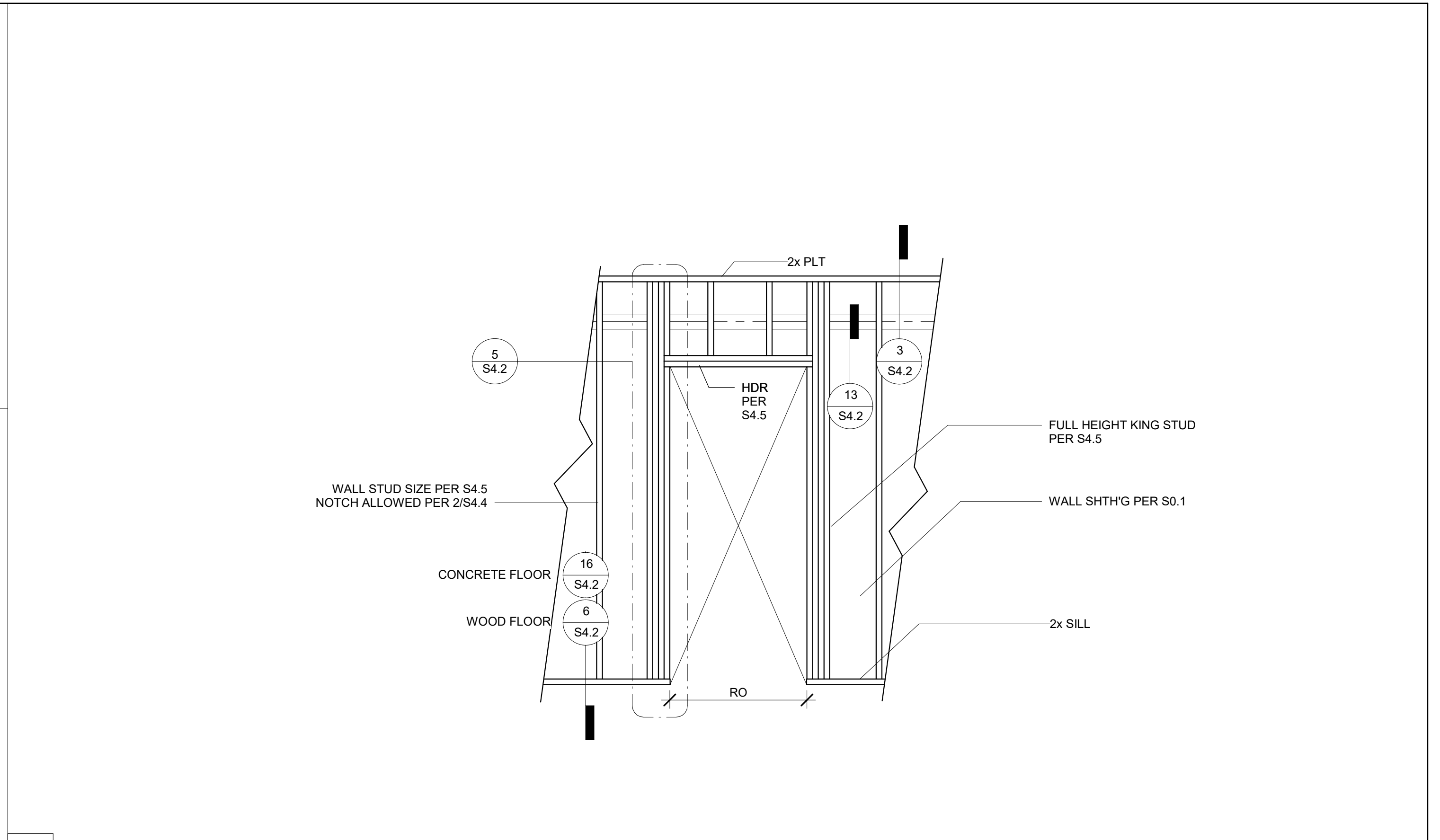
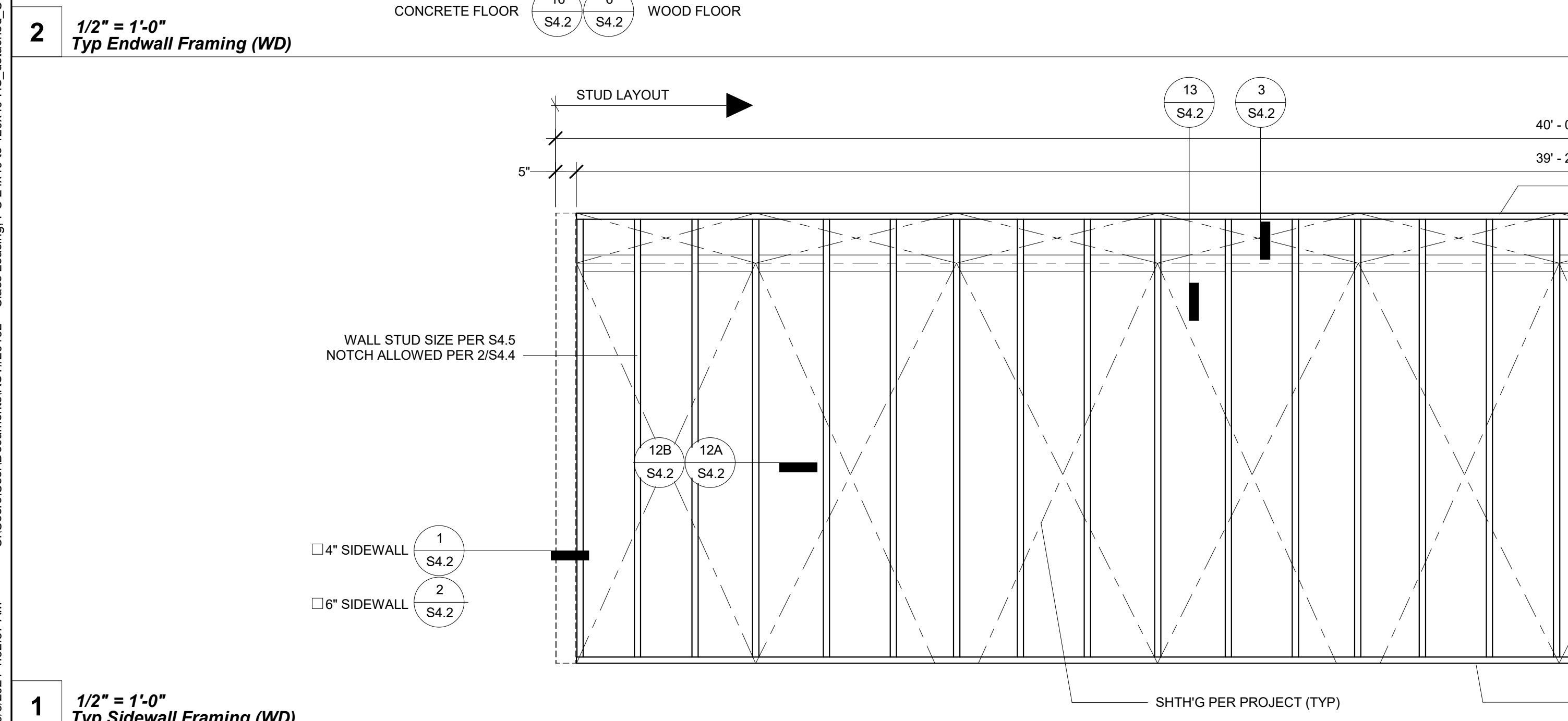
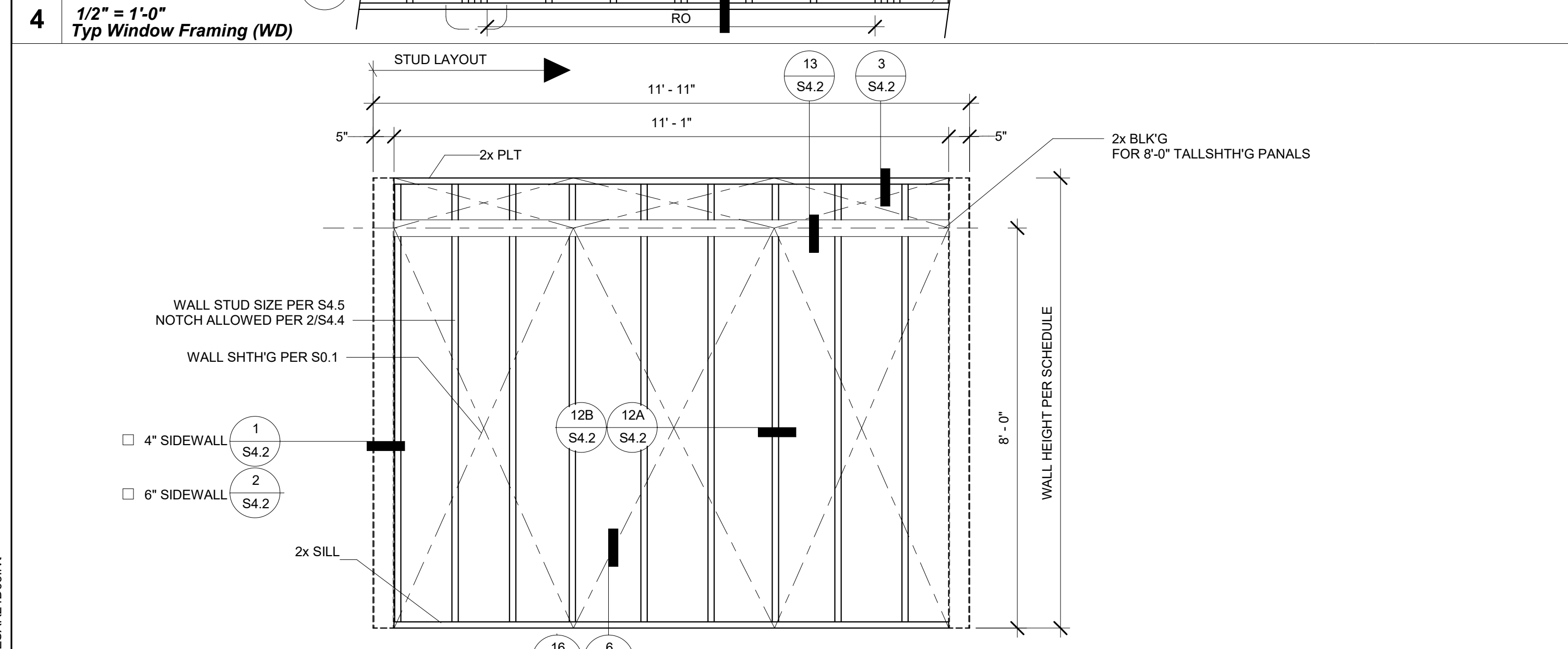
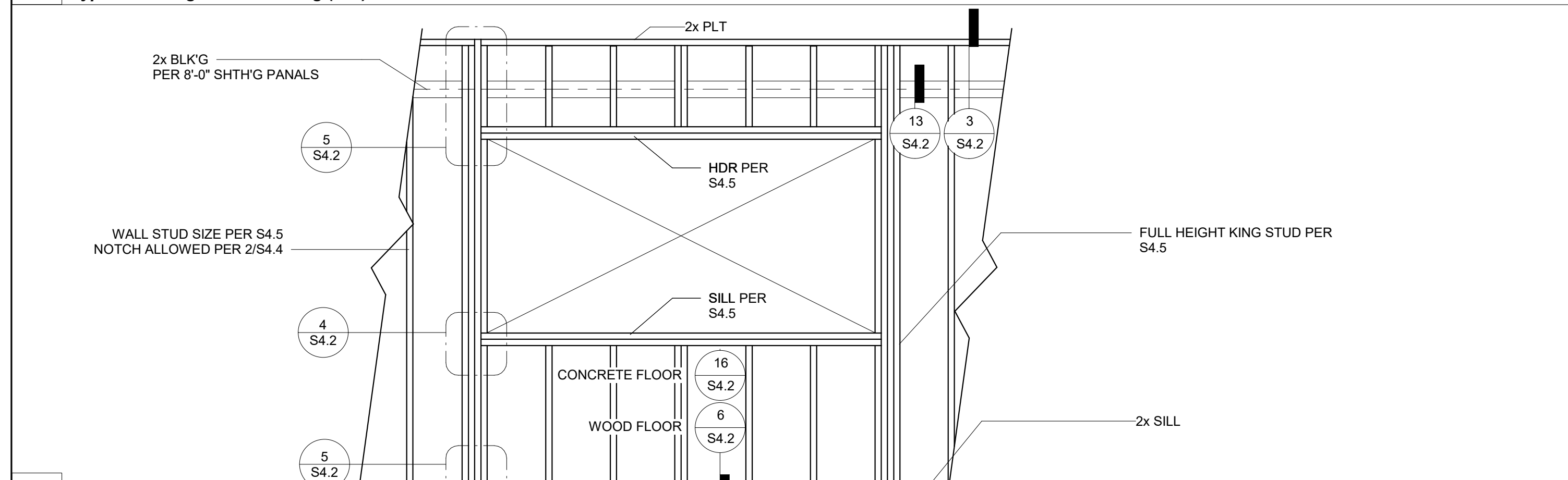
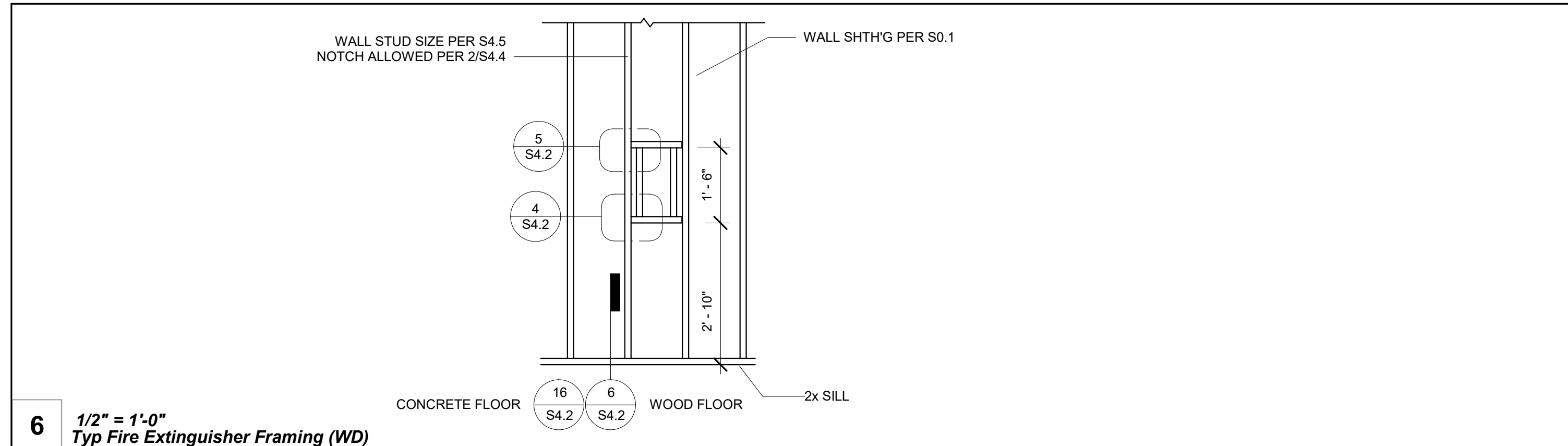
DATE

SHEET NO.
S3.3

SHEET OF

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6/6/2021 1:52:57 AM C:\Users\User\Documents\RS\20132 - Class Leasing_PC 24x40 to 120x40 HS_detached_CESAR24D63.rvt



PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-122805 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 09/28/2023

R&S TAVARES ASSOCIATES
 DESIGN & CONSULTING PROJECT MEET
 11500 W BERNHARD COURT, SUITE 100
 SAN DIEGO, CA 92127
 WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
 MANNY D. FRIEDL
 63380
 03/31/24
 P.C.T. 174
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 RST#22088

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
 DIV. OF THE STATE ARCHITECT
 APP. 04-121368 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
WD WALL FRAMING ELEVATIONS

PROJECT NUMBER
 22088

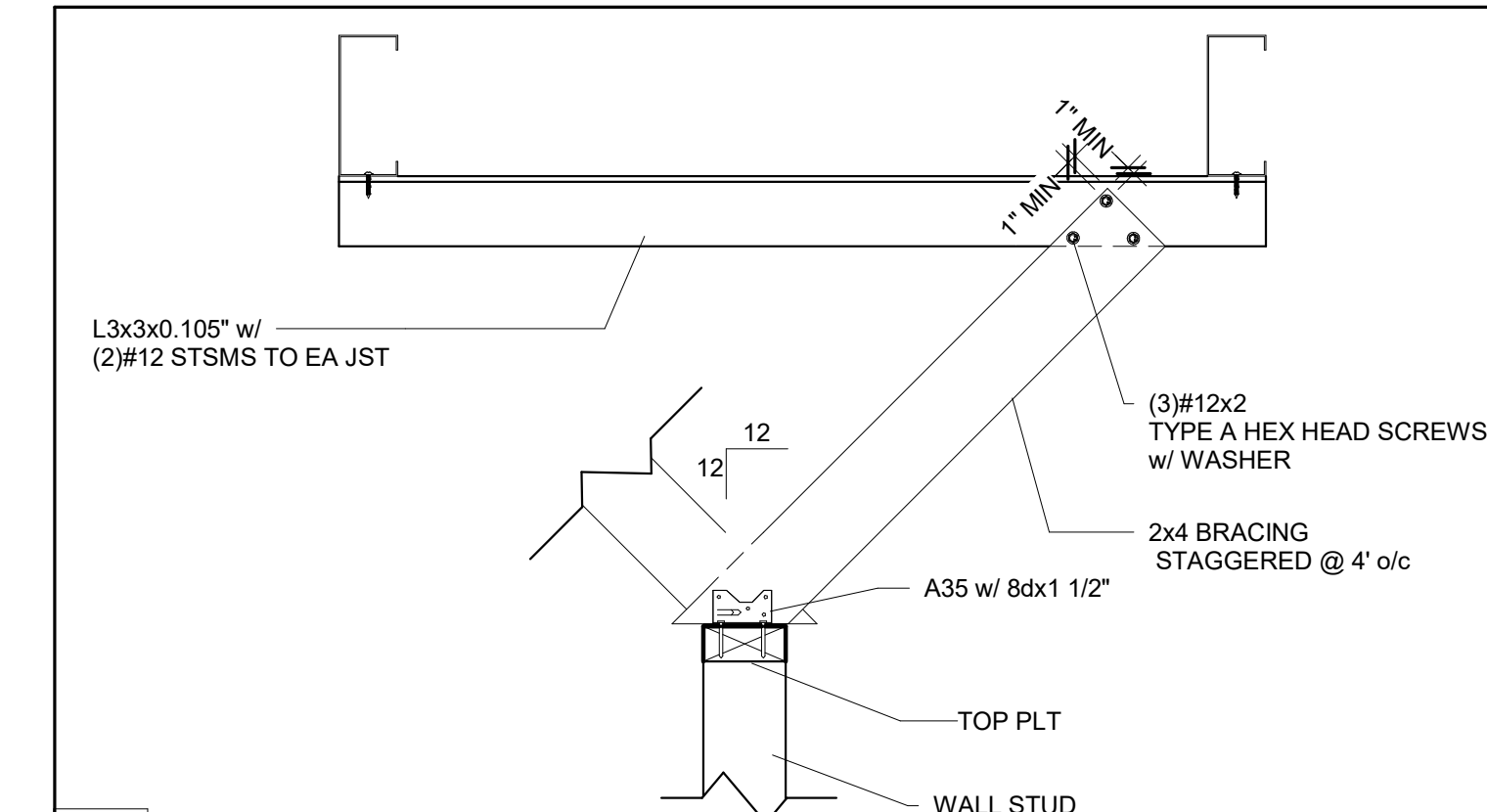
DRAWN BY
 rMc/SC

CHECKED BY
 JA/RT

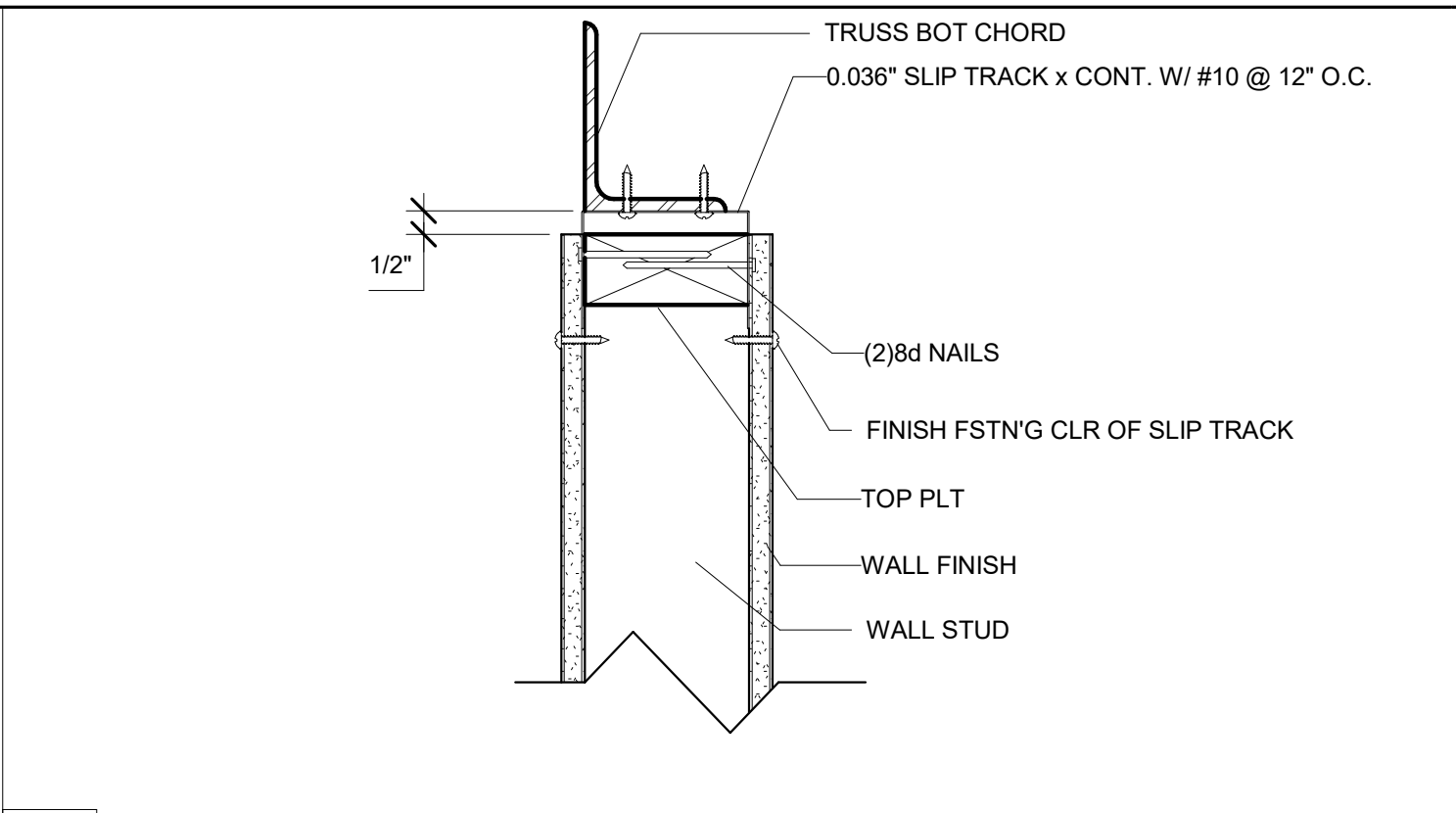
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SHEET NO.
S4.1

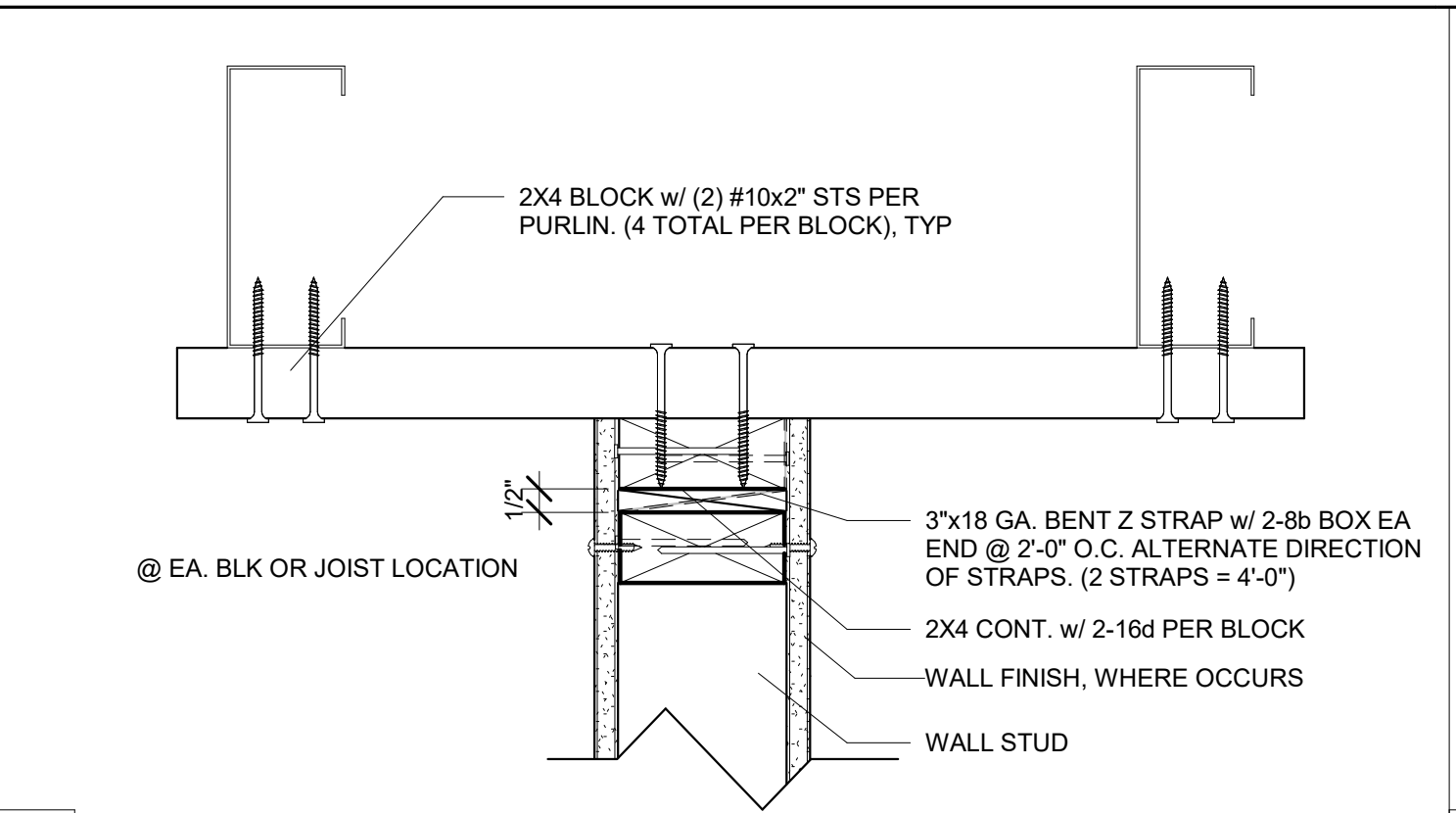
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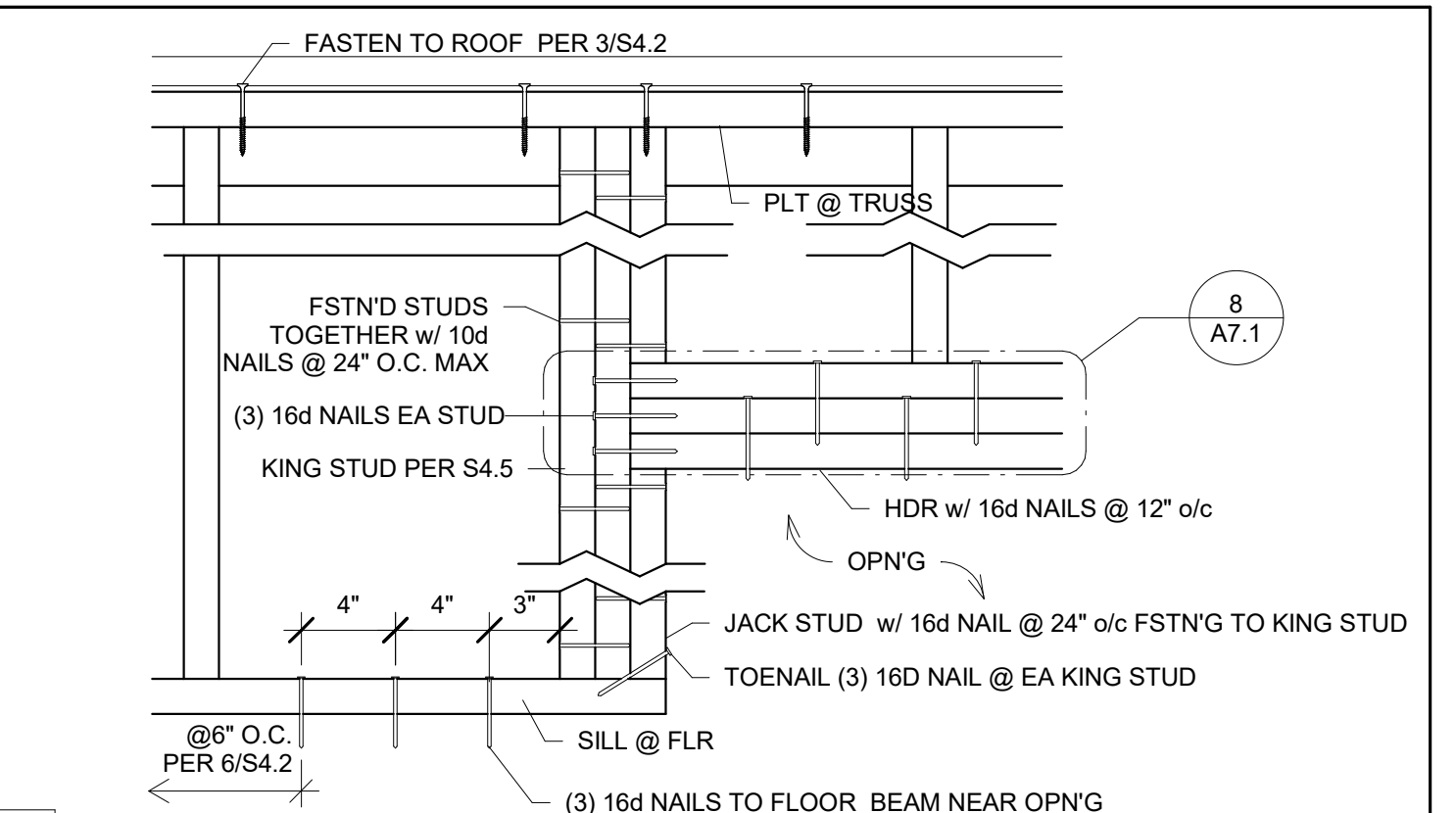
20 1 1/2" = 1'-0"
Sections - Interior Partition w/ Brace to Blk'g (WD)



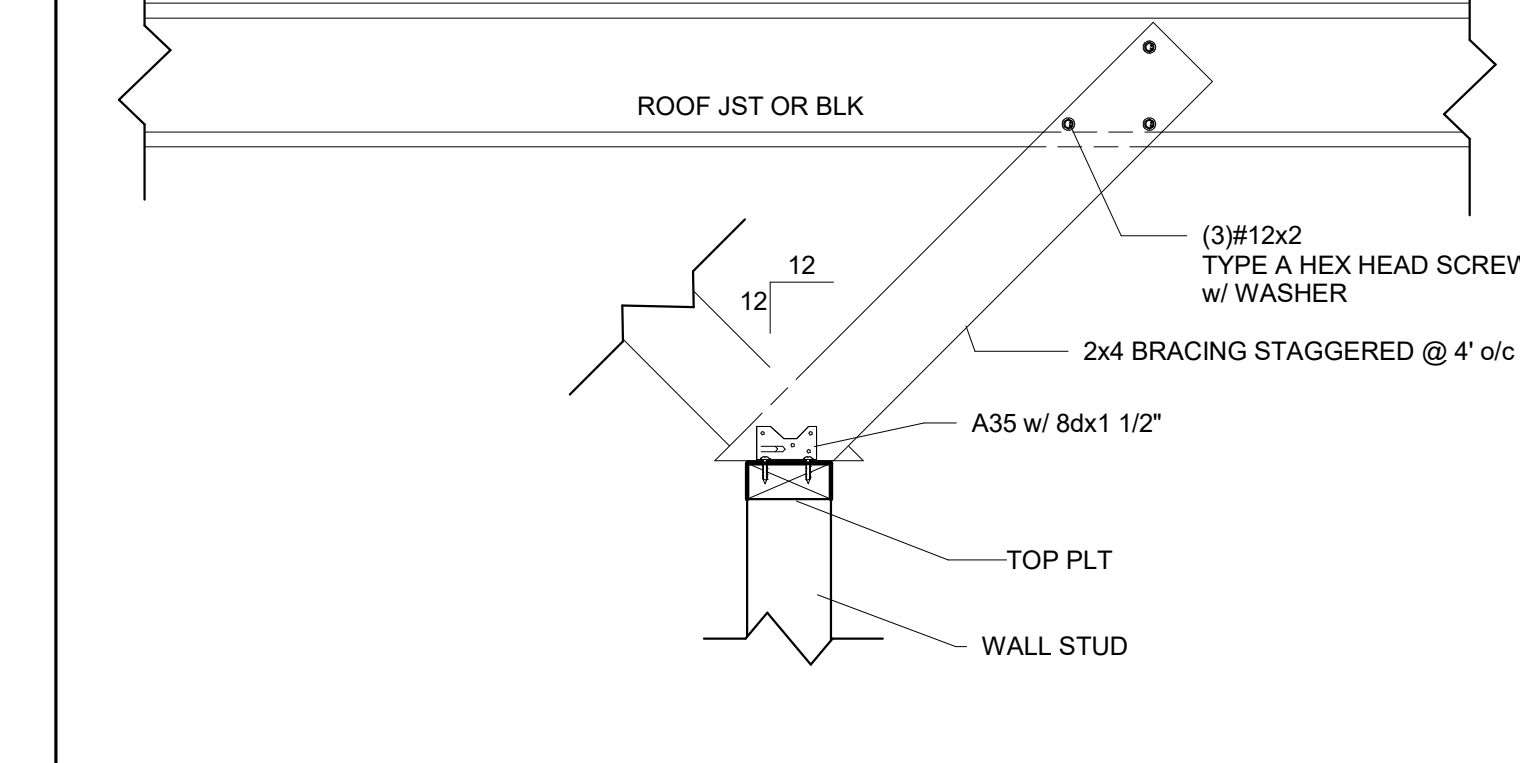
15 3" = 1'-0"
Section - Interior Wall Top Plate @ Truss (ML)



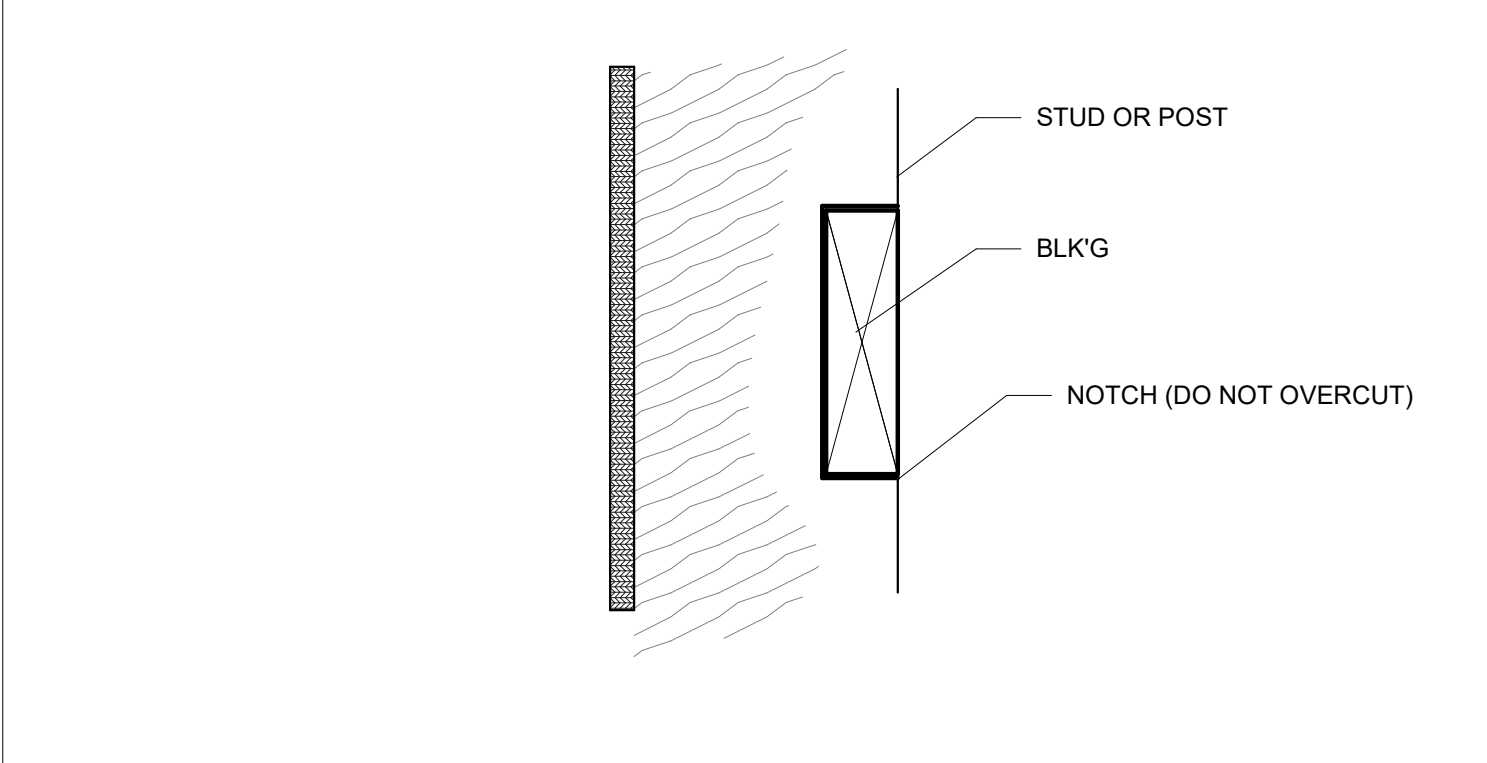
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Sections - Interior Partition @ Blk'g (WD)



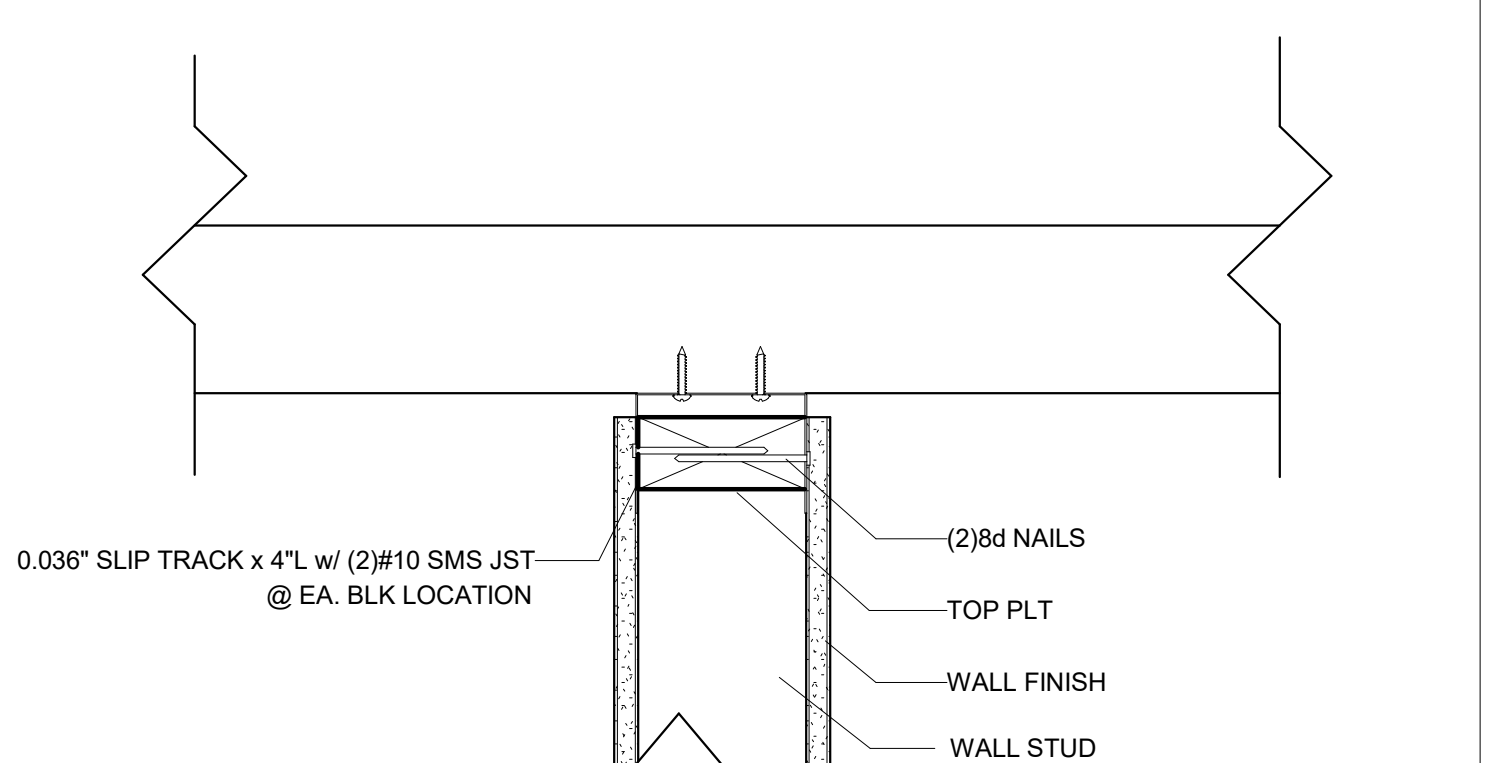
5 1 1/2" = 1'-0"
Elevation - Window/Door Hdr and Sill



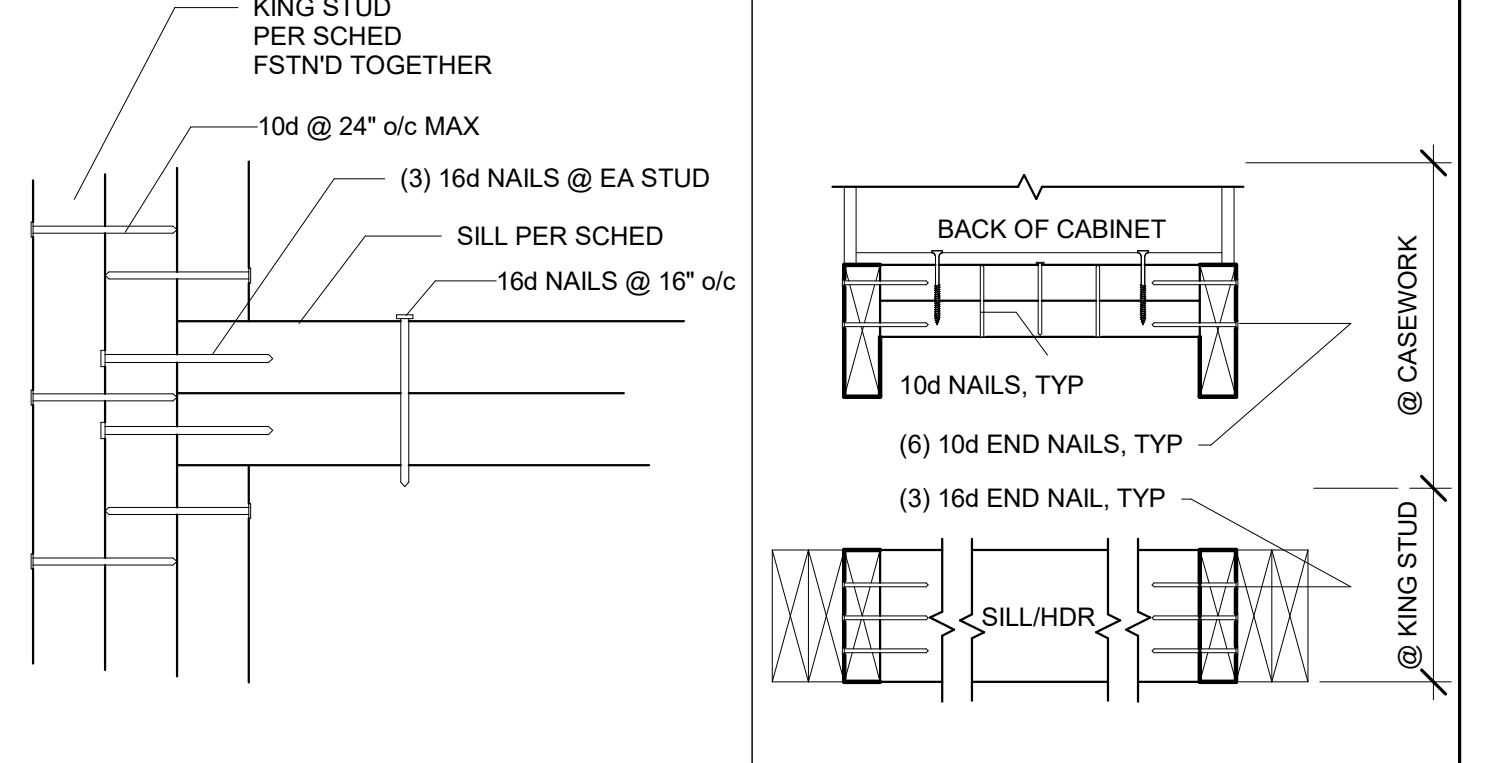
19 1 1/2" = 1'-0"
Sections - Interior Partition w/ Brace (WD)



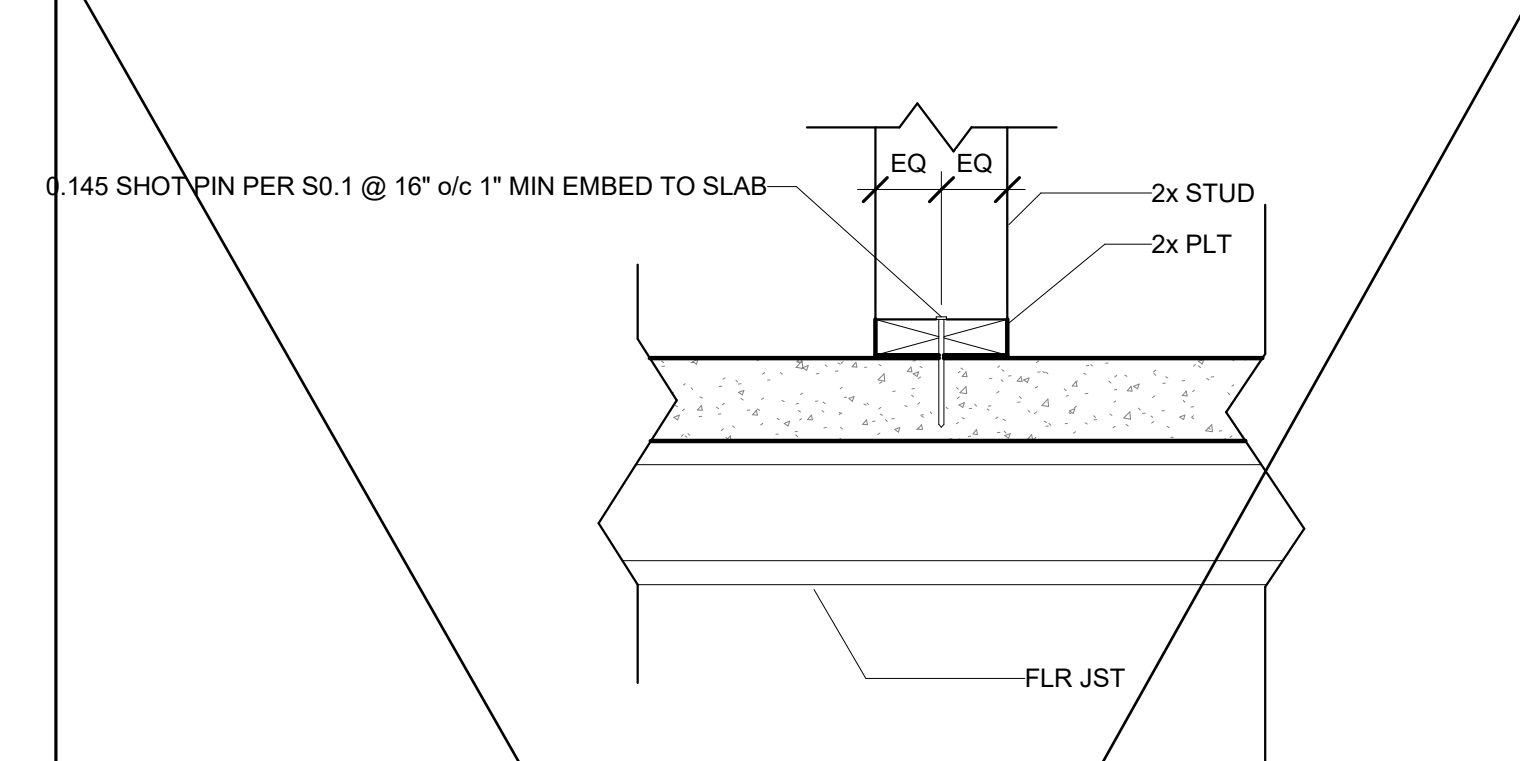
14 3" = 1'-0"
Notch Stud @ Blk'g



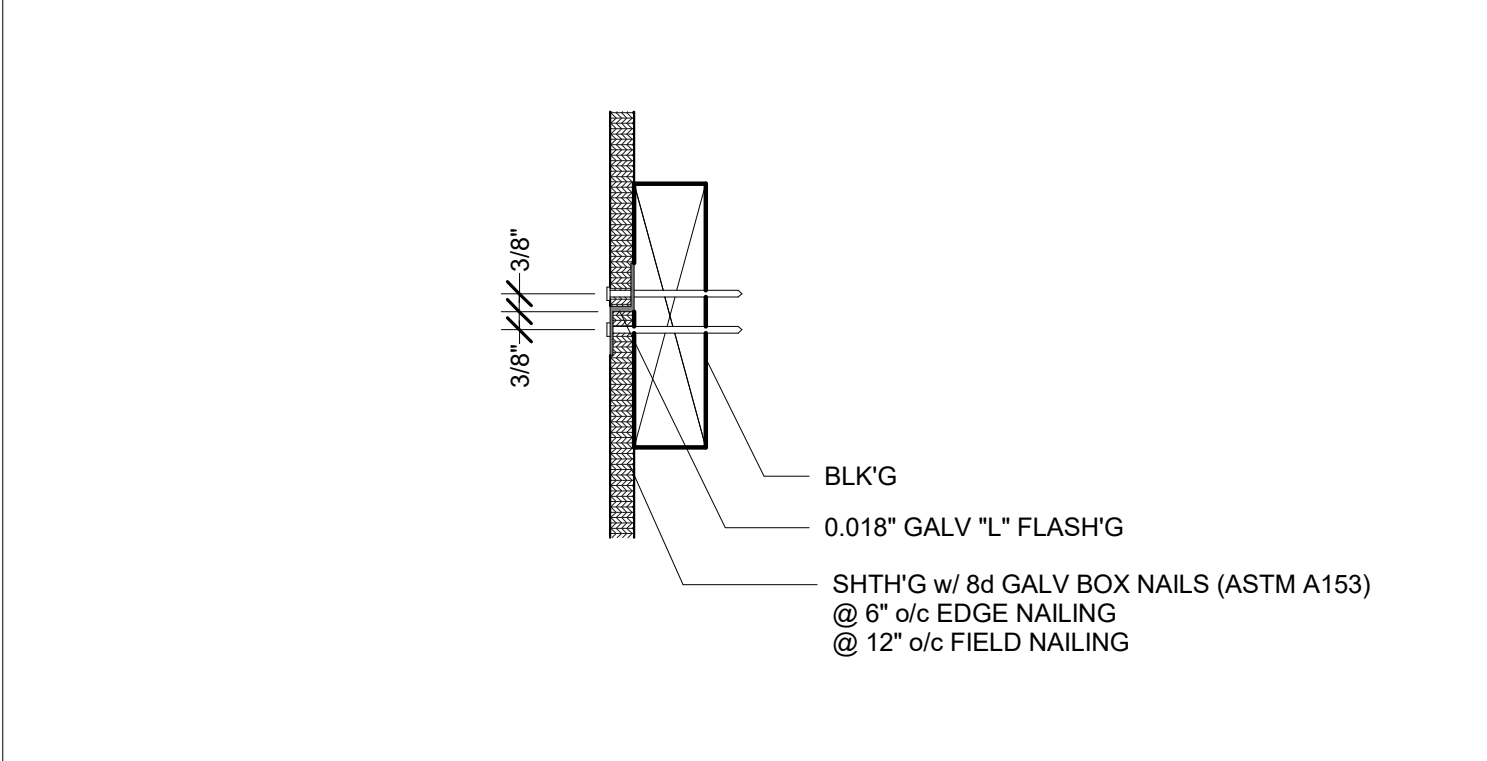
9 3" = 1'-0"
Sections - Interior Partition @ Jst (WD)



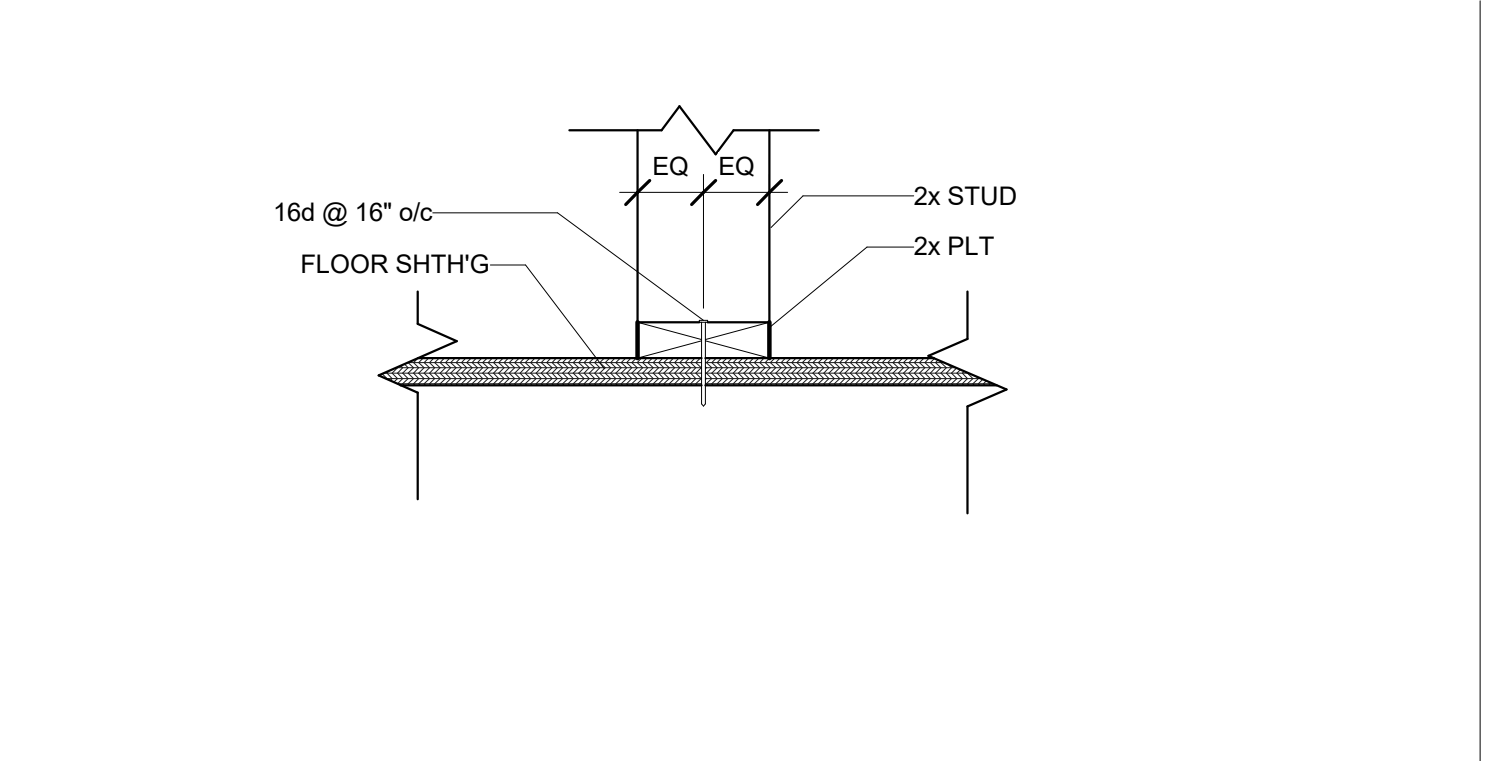
4 3" = 1'-0"
Elevation - Ext Wall Sill @ Window



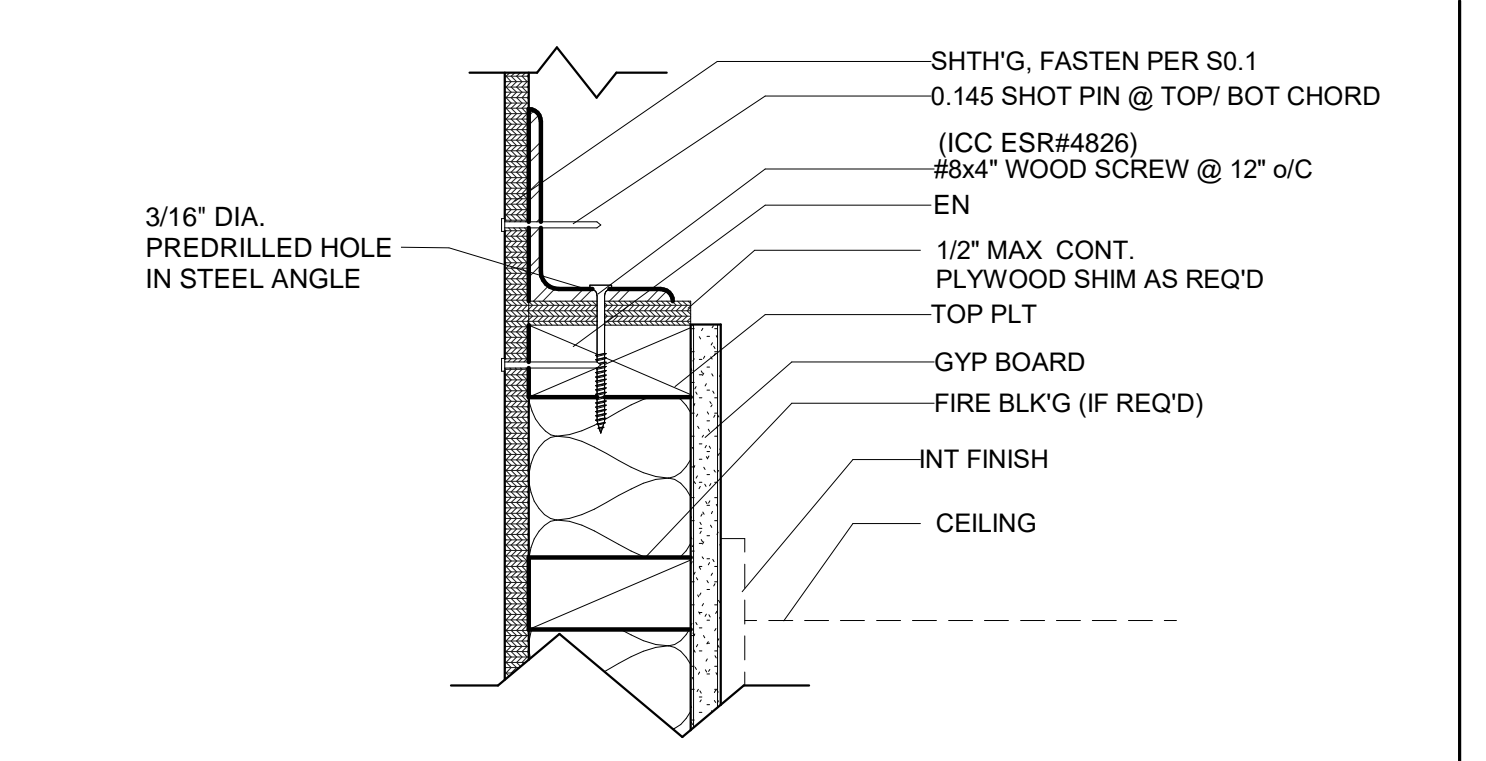
18 1 1/2" = 1'-0"
Typ Partition Sill Connection (CONC)



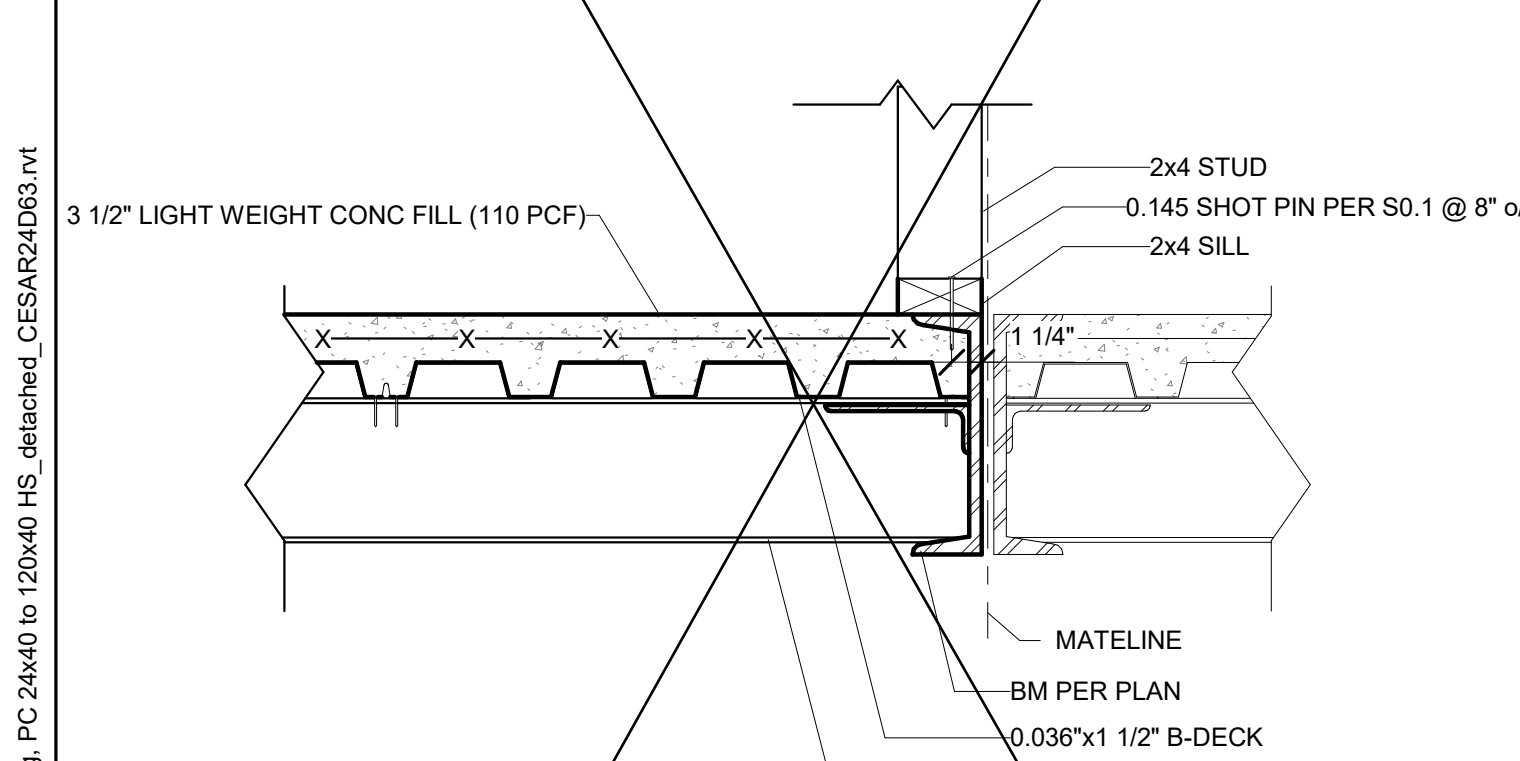
13 3" = 1'-0"
Shth'g @ Blk'g



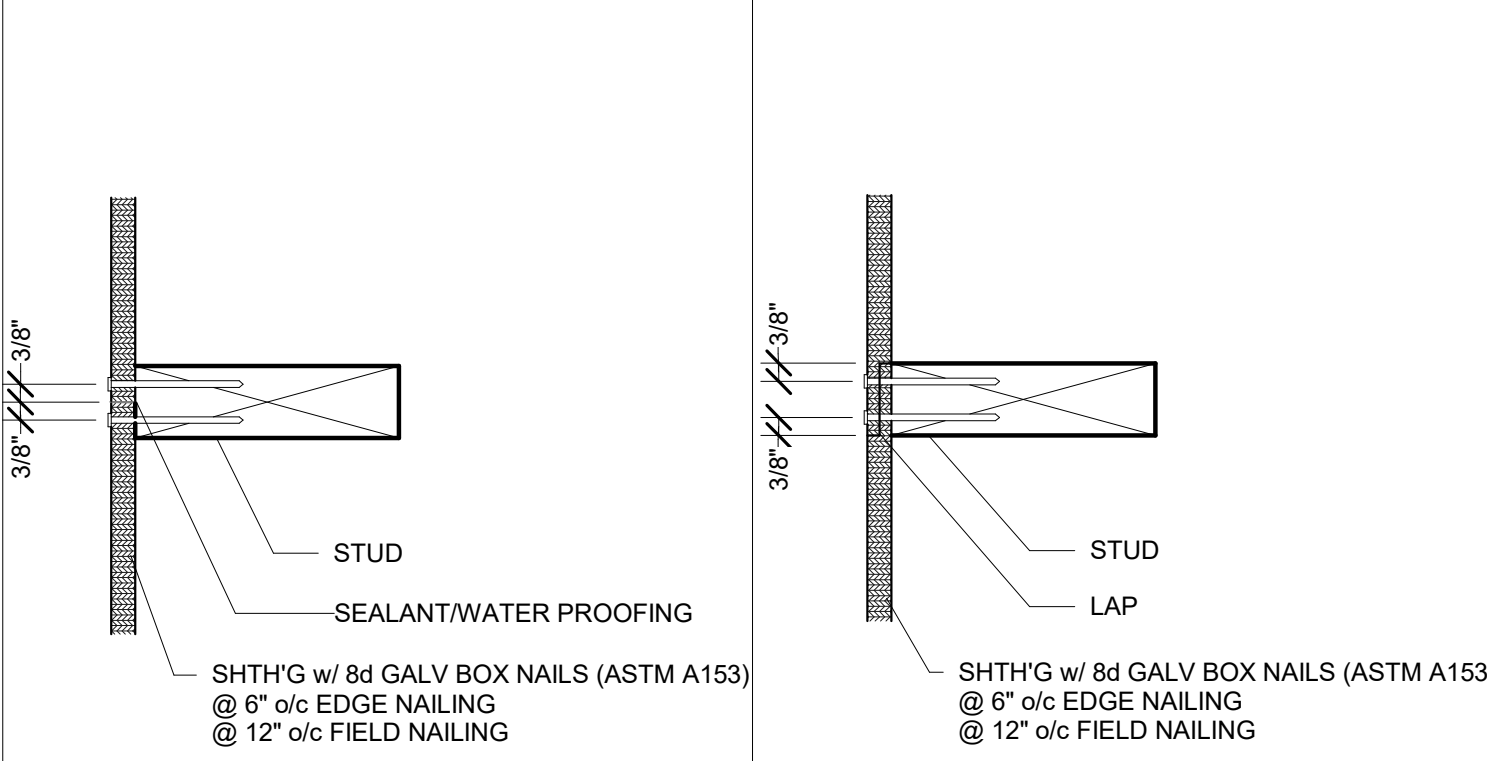
8 1 1/2" = 1'-0"
Typ Partition Sill Connection (WD)



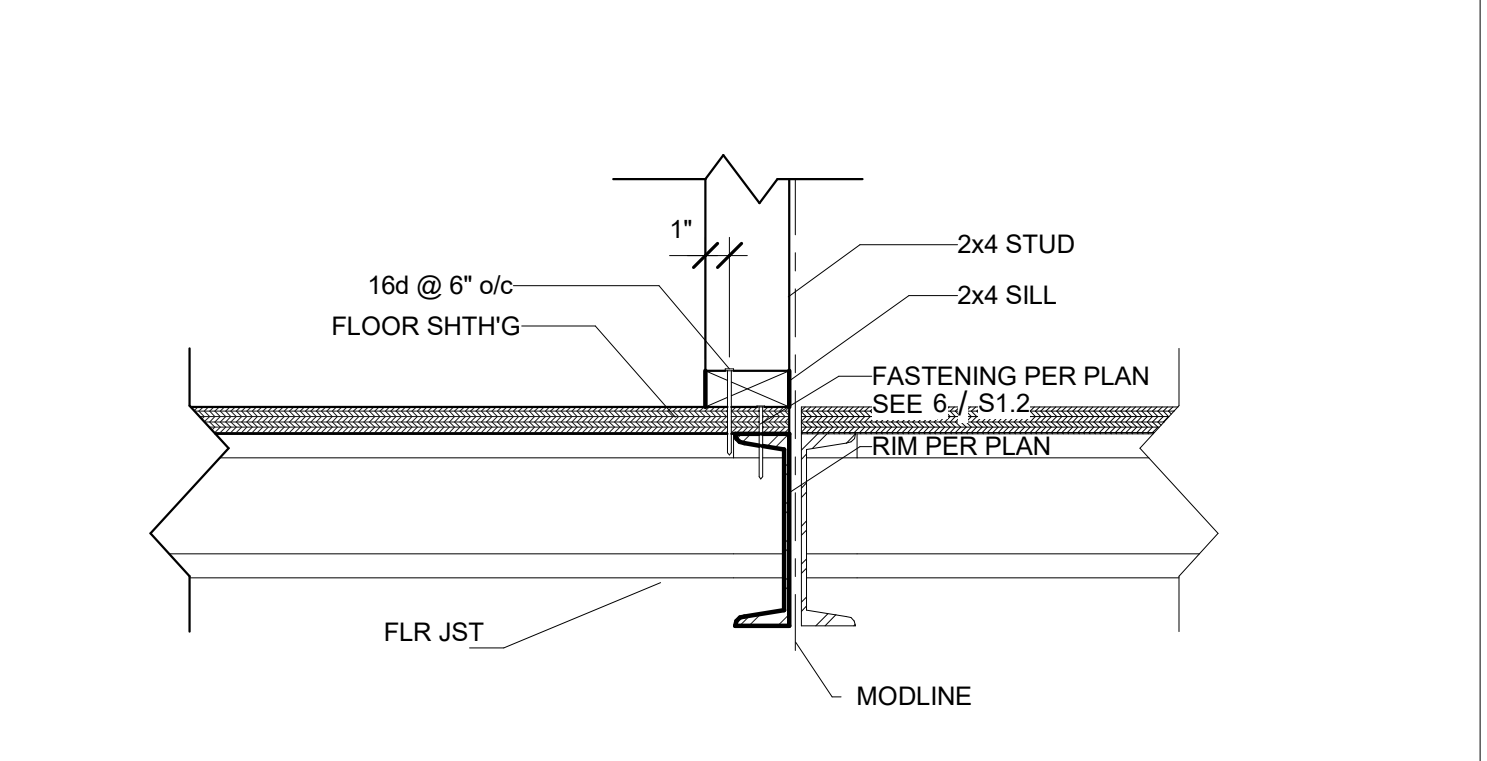
12 1 1/2" = 1'-0"
CASEWORK END NAIL PLAN



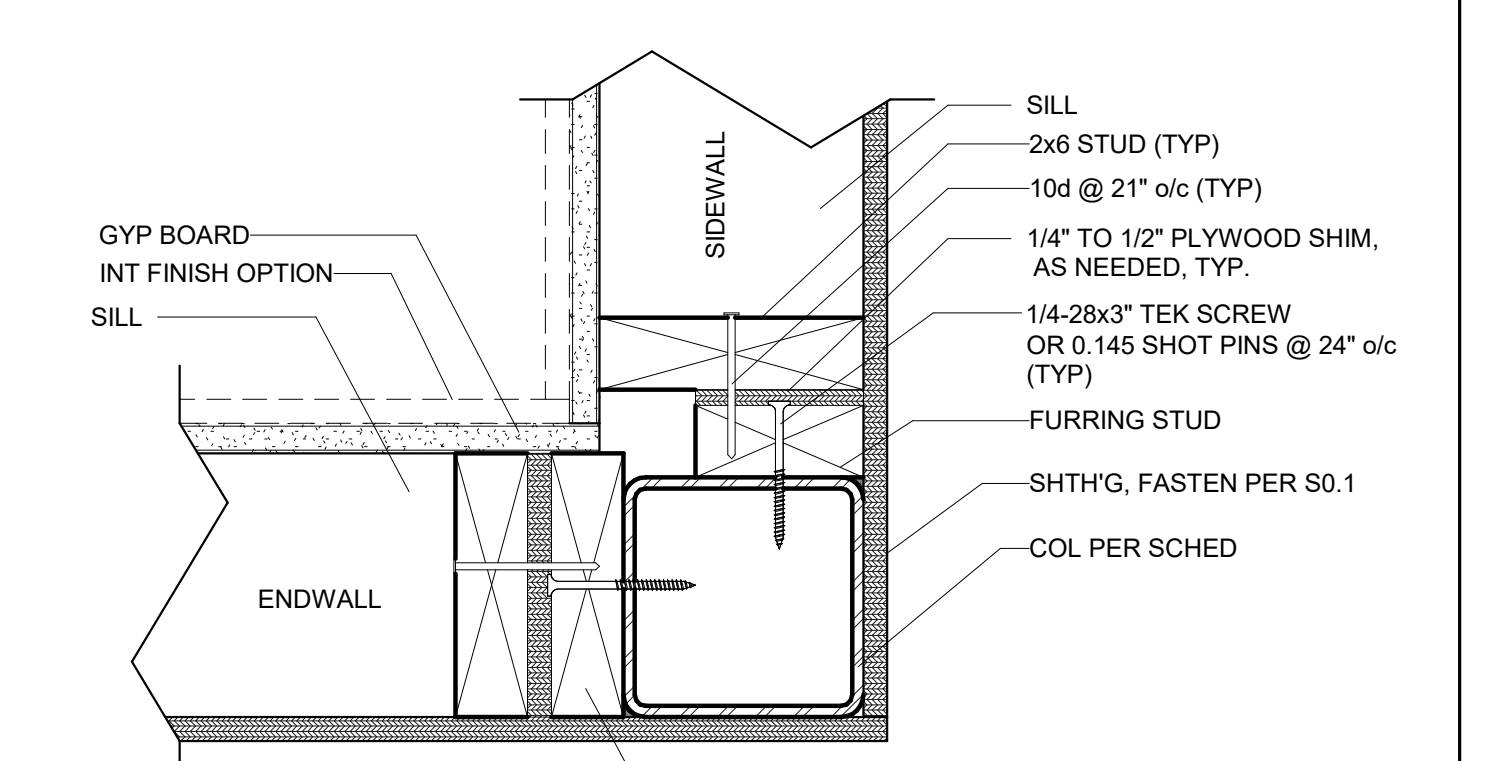
17 1 1/2" = 1'-0"
Wall Sill Plt Connection @ Interior Sidewall (CONC)



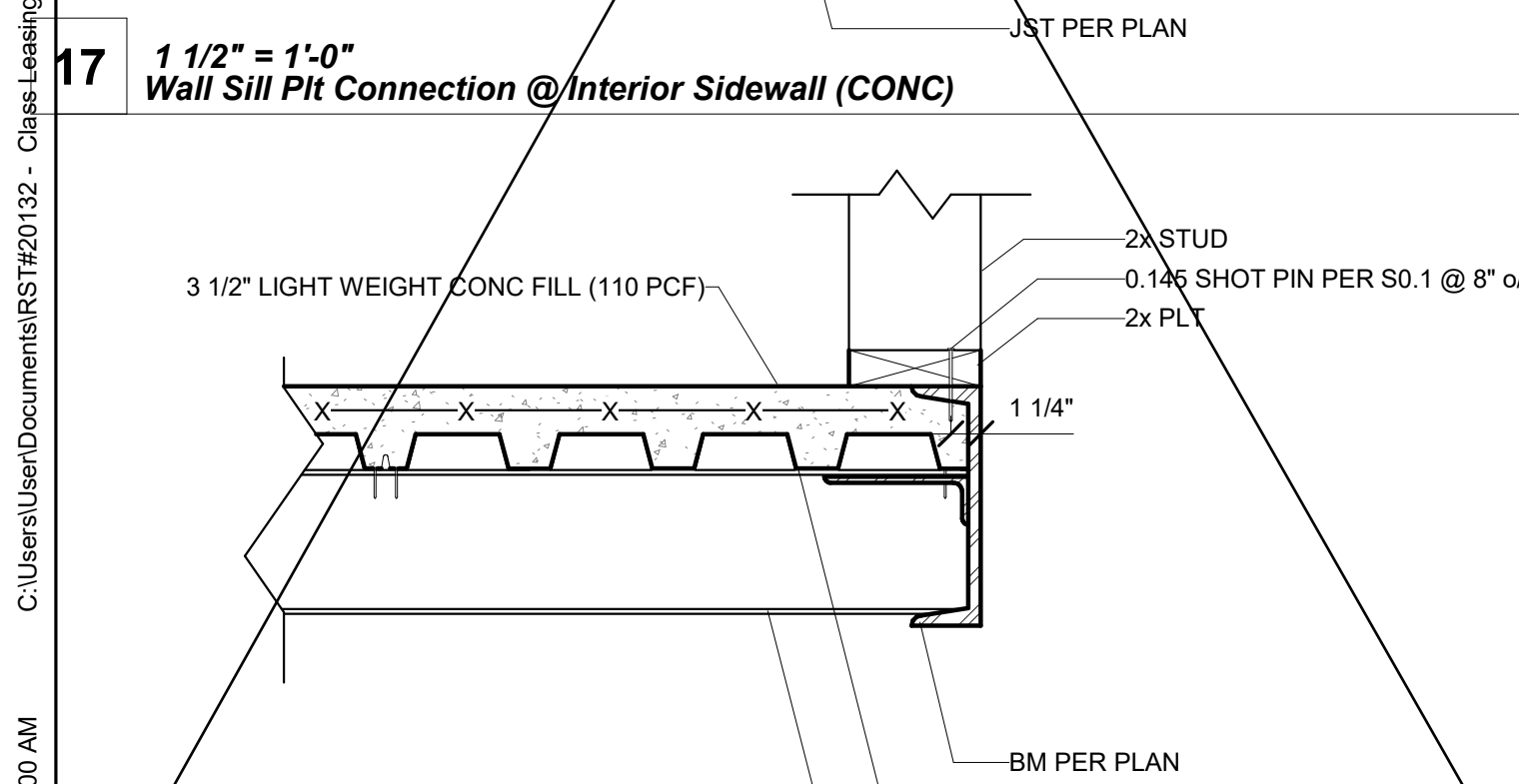
12A 3" = 1'-0"
Shth'g @ Butt Jnt



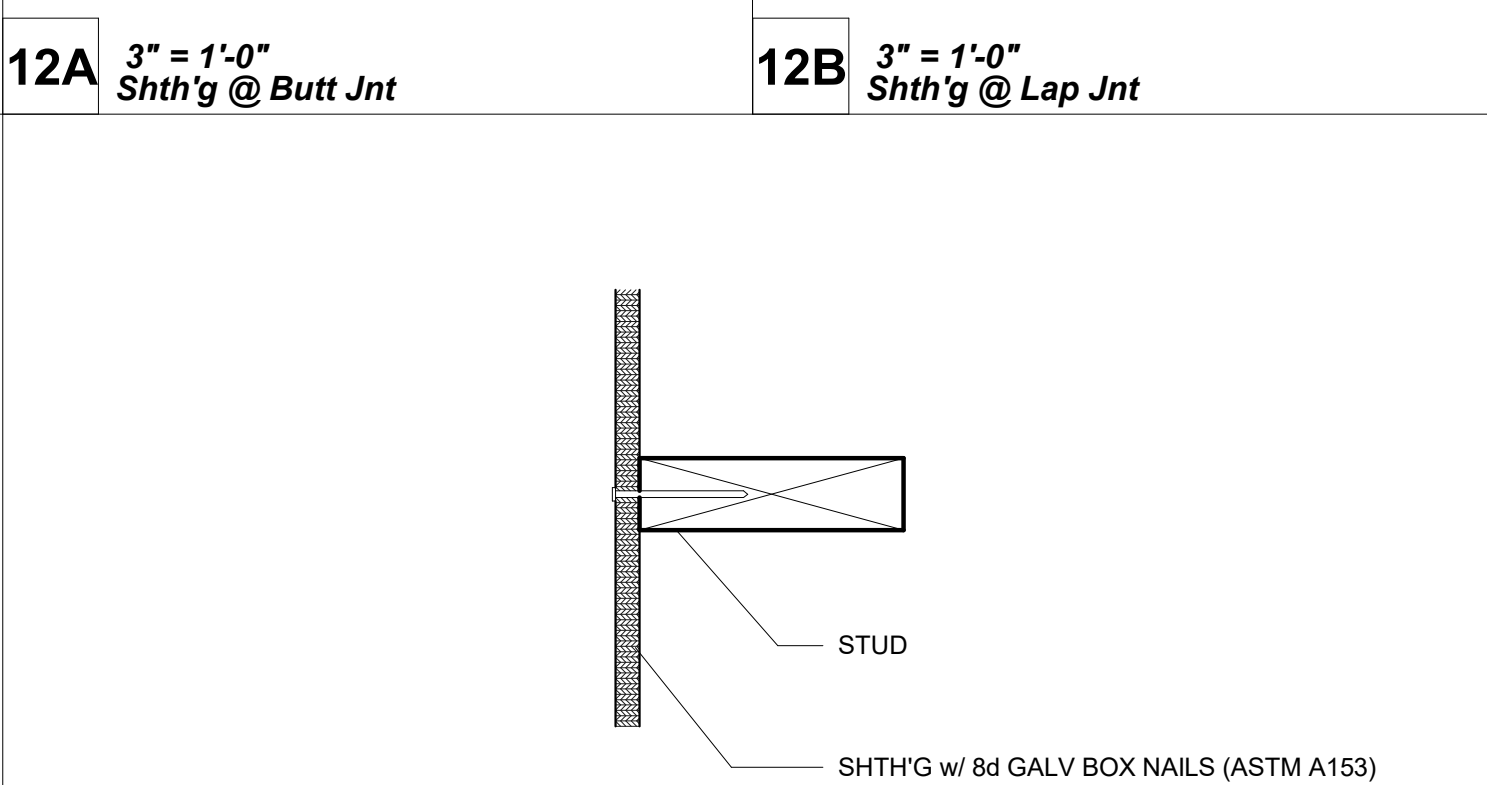
7 1 1/2" = 1'-0"
2x4 Wall Sill Connection @ Interior Sidewalls (WD)



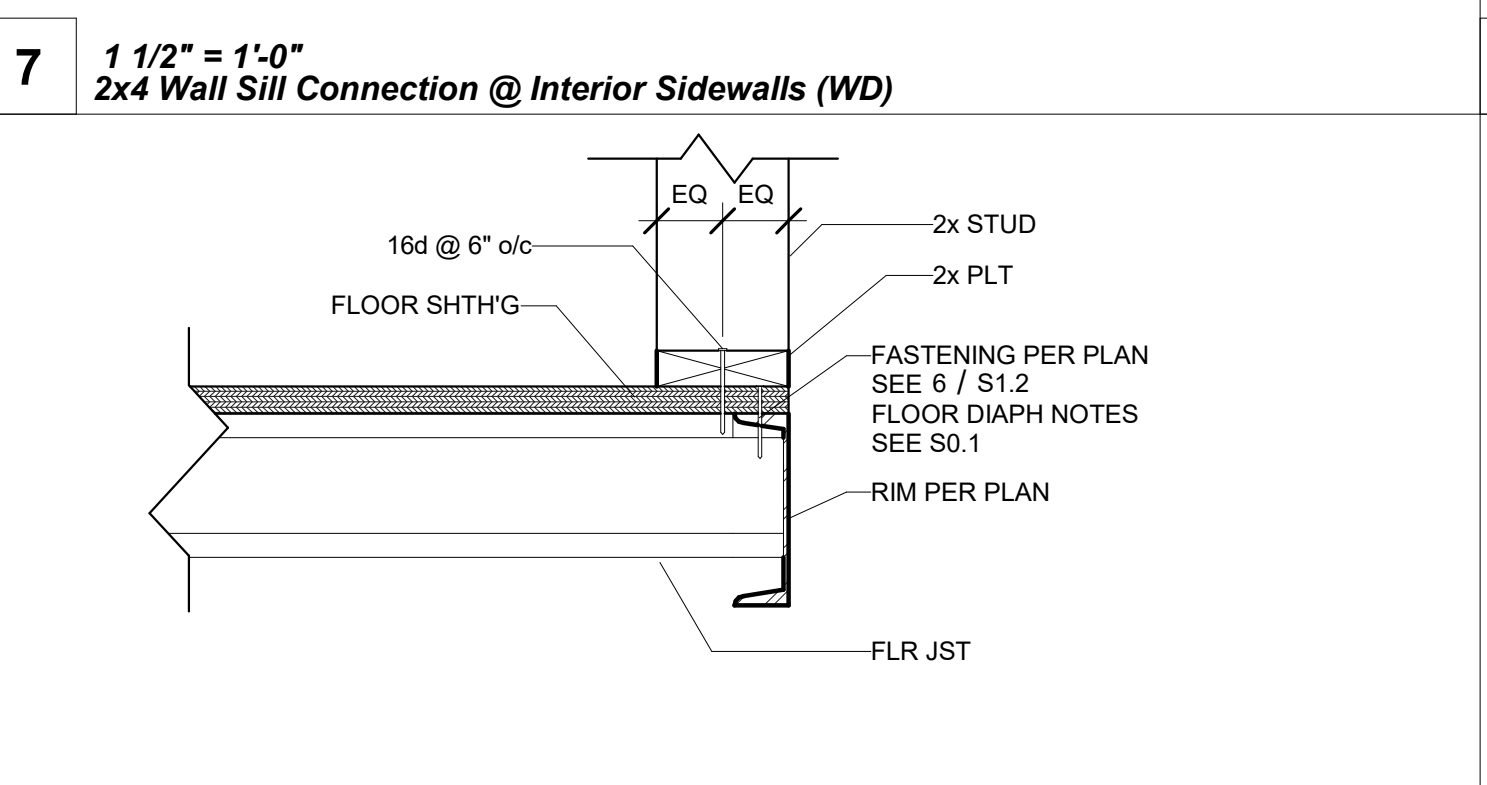
3 3" = 1'-0"
Section - Exterior Wall Top Plate @ Truss (WD)



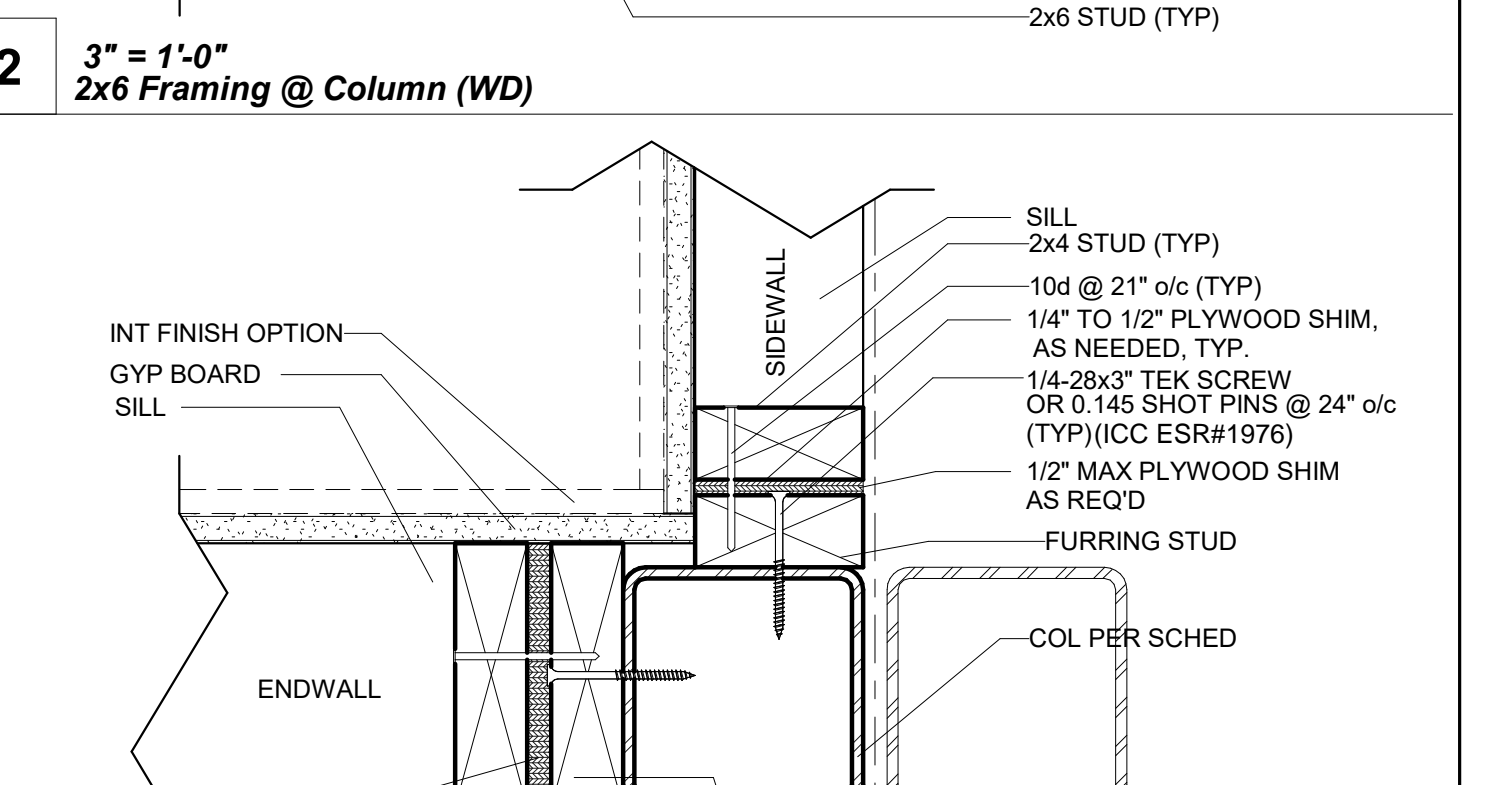
16 1 1/2" = 1'-0"
Wall Sill Plt Connection @ Exterior Rim (CONC)



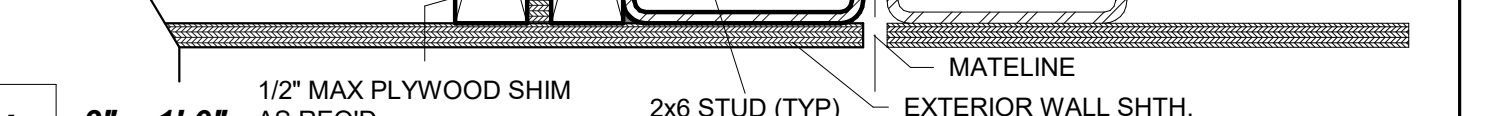
12B 3" = 1'-0"
Shth'g @ Lap Jnt



6 1 1/2" = 1'-0"
Wall Sill Connection @ Exterior Rim (WD)



2 3" = 1'-0"
2x6 Framing @ Column (WD)



1 3" = 1'-0"
Interior Sidewall Framing @ Column (WD)

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/28/2023

R&S TAVARES ASSOCIATES
DESIGN & CONSULTING PROJECT MEET
11500 W BERNHARD COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ARCHITECT
MANNY D. FRIEDL
03/31/24
05/24/23
STATE OF CALIFORNIA
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APP. 04-121368 PC
REVIEWED FOR
SS FLS ACS CG
DATE: 09/22/2023

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
WALL DETAILS (WOOD FRAMING)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

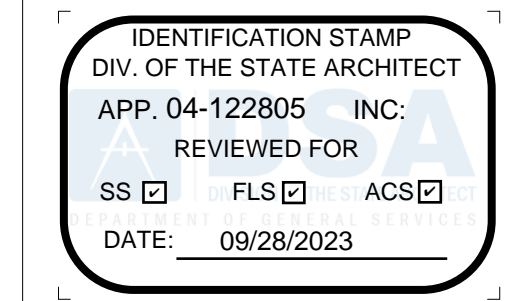
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SHEET NO.
S4.2

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PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP

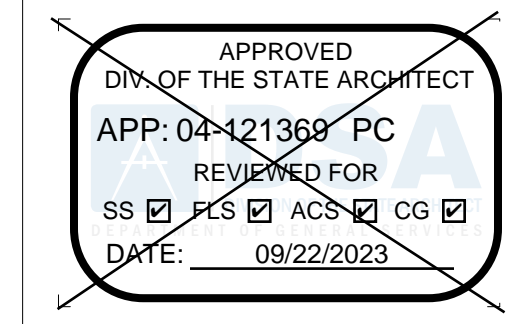


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ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
**PC 2022 CBC:24' x 40'
EXPANDABLE TO
120' x 40'**

SHEET TITLE
TYP FRAMING

PROJECT NUMBER
22088

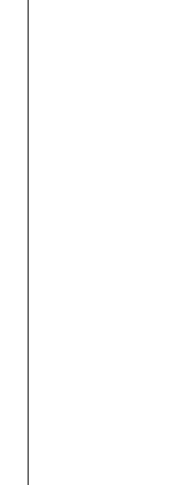
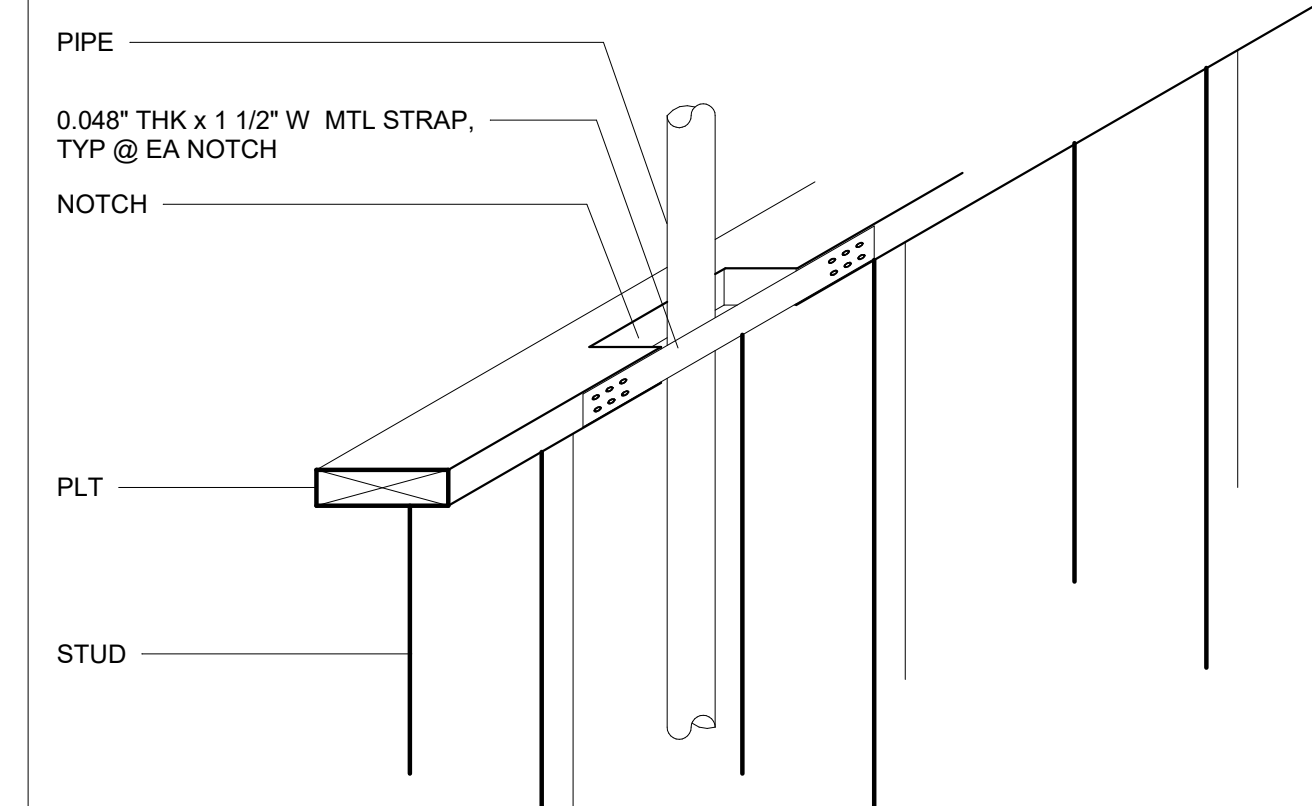
DRAWN BY
rMc/SC

CHECKED BY
JA/RT

DATE

SHEET NO.
S4.4

SHEET OF

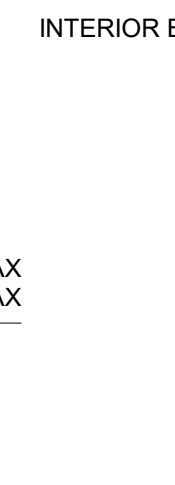


PARTITION WALLS
40% ALLOWABLE
PER CBC 2022
(2308.5.9)

STUD

2x4 STUD - 1 7/16" MAX
2x6 STUD - 2 3/16" MAX

NOTCH



INTERIOR BEARING WALLS AND EXTERIOR WALLS
25% ALLOWABLE
PER CBC 2022
(2308.5.9)

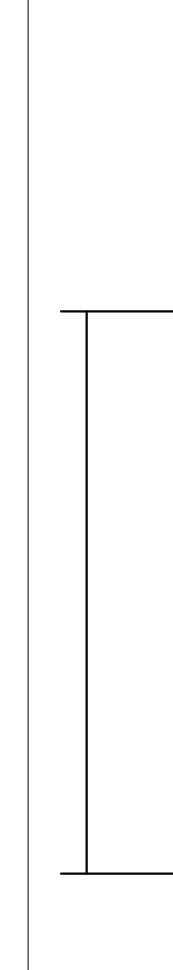
STUD

2x4 STUD - 7/8" MAX
2x6 STUD - 1 3/8" MAX

NOTCH

2

**1 1/2" = 1'-0"
Pit Notch**



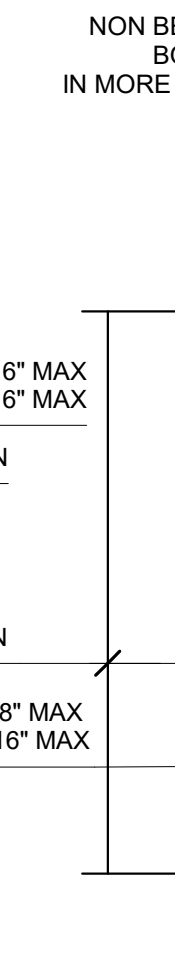
ALL WALLS
40% ALLOWABLE
PER CBC 2022
(2308.5.10)

2x4 - 1 7/16" MAX
2x6 - 2 3/16" MAX

5/8" MIN

5/8" MIN

2x4 - 2 1/8" MAX
2x6 - 3 5/16" MAX



NON BEARING WALLS AND ALL DBL STUDS
BORED WHOLE NOT PERMITTED
IN MORE THAN (2) CONSECUTIVELY DBL STUDS
60% ALLOWABLE
PER CBC 2022
(2308.5.10)

1

**6" = 1'-0"
Stud Penetration**

COL HEIGHT	OPN'G SIZE	HDR			SILL			FULL HEIGHT KING STUD		
		Lumber	Number	Type	Lumber	Number	Type	Lumber	Number	Type
9FT	3070	HF / SYP	1	#2	-	-	-	HF	2	#2
		DF / SYP	1	#2	-	-	-	DF	2	#2
	4070	HF / SYP	1	#2	-	-	-	HF	2	#2
		DF / SYP	1	#2	-	-	-	DF	2	#2
	6040	HF / SYP	2	#2	DF	2	#2	HF	2	#2
		DF / SYP	2	#2	DF	2	#2	DF	2	#2
8040	HF / SYP	3	#2	HF	3	#2	HF	2	#2	
	DF / SYP	3	#2	DF	3	#2	DF	2	#2	
10FT	3070	HF / SYP	1	#2	-	-	-	HF	2	#2
		DF / SYP	1	#2	-	-	-	DF	2	#2
	4070	HF / SYP	1	#2	-	-	-	HF	2	#2
		DF / SYP	1	#2	-	-	-	DF	2	#2
	6040	HF / SYP	2	#2	HF	2	#2	HF	2	#2
		DF / SYP	2	#2	DF	2	#2	DF	2	#2
	8040	HF / SYP	3	#2	HF	3	#2	HF	2	#2
		DF / SYP	3	#2	DF	3	#2	DF	2	#2

COL HEIGHT	Typical Location				4ft From Building Corner			
	Lumber	Number	Type	Spacing	Lumber	Number	Type	Spacing
9	HF	1	#2	16" O.C.	-	-	-	-
	DF	1	#2	16" O.C.	-	-	-	-
10	HF	1	#2	16" O.C.	-	-	-	-
	DF	1	#2	16" O.C.	-	-	-	-

COL HEIGHT	OPN'G SIZE	HDR			SILL			FULL HEIGHT KING STUD		
		Lumber	Number	Type	Lumber	Number	Type	Lumber	Number	Type
9FT	3070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	4070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	6040	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
8040	HF / SYP	1	#2	HF	1	#2	HF	2	#2	
	DF / SYP	1	#2	DF	1	#2	DF	2	#2	
10FT	3070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	4070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	6040	HF / SYP	1	#2	HF	1	#2	HF	2	#2
		DF / SYP	1	#2	DF	1	#2	DF	2	#2
	8040	HF / SYP	1	#2	HF	1	#2	HF	2	#2
		DF / SYP	1	#2	DF	1	#2	DF	2	#2

COL HEIGHT	Typical Location				4ft From Building Corner			
	Lumber	Number	Type	Spacing	Lumber	Number	Type	Spacing
9	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.
10	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.

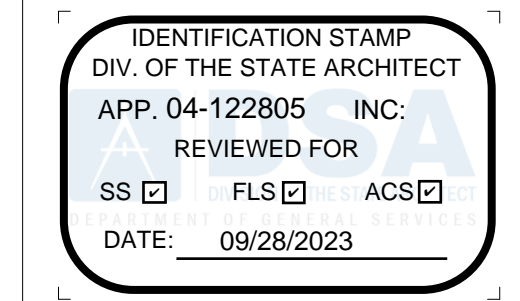
COL HEIGHT	OPN'G SIZE	HDR			SILL			FULL HEIGHT KING STUD		
		Lumber	Number	Type	Lumber	Number	Type	Lumber	Number	Type
9FT	3070	HF	1	#2	HF	1	#2	HF	1	#2
		DF	1	#2	DF	1	#2	DF	1	#2
	4070	HF	1	#2	HF	1	#2	HF	1	#2
		DF	1	#2	DF	1	#2	DF	1	#2
	6040	HF	1	#2	HF	1	#2	HF	2	#2
		DF	1	#2	DF	1	#2	DF	2	#2
10FT	3070	HF	1	#2	HF	1	#2	HF	2	#2
		DF	1	#2	DF	1	#2	DF	2	#2
	4070	HF	1	#2	HF	1	#2	HF	2	#2
		DF	1	#2	DF	1	#2	DF	2	#2
	6040	HF	1	#2	HF	1	#2	HF	2	#2
		DF	1	#2	DF	1	#2	DF	2	#2

COL HEIGHT	Typical Location				4ft From Building Corner			
	Lumber	Number	Type	Spacing	Lumber	Number	Type	Spacing
9	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.
10	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.

NOTE: SEE DETAIL 1 ON SHEETS A2.1 - A2.6

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CLIENT



1320 W. Oleander Ave., Perris CA 92571-7408
VOICE (951) 943-1908 Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL



#	Description	Date

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
**PC 2022 CBC:24' x 40'
EXPANDABLE TO
120' x 40'**

SHEET TITLE
**FRAMING
SCHEDULES**

PROJECT NUMBER
22088

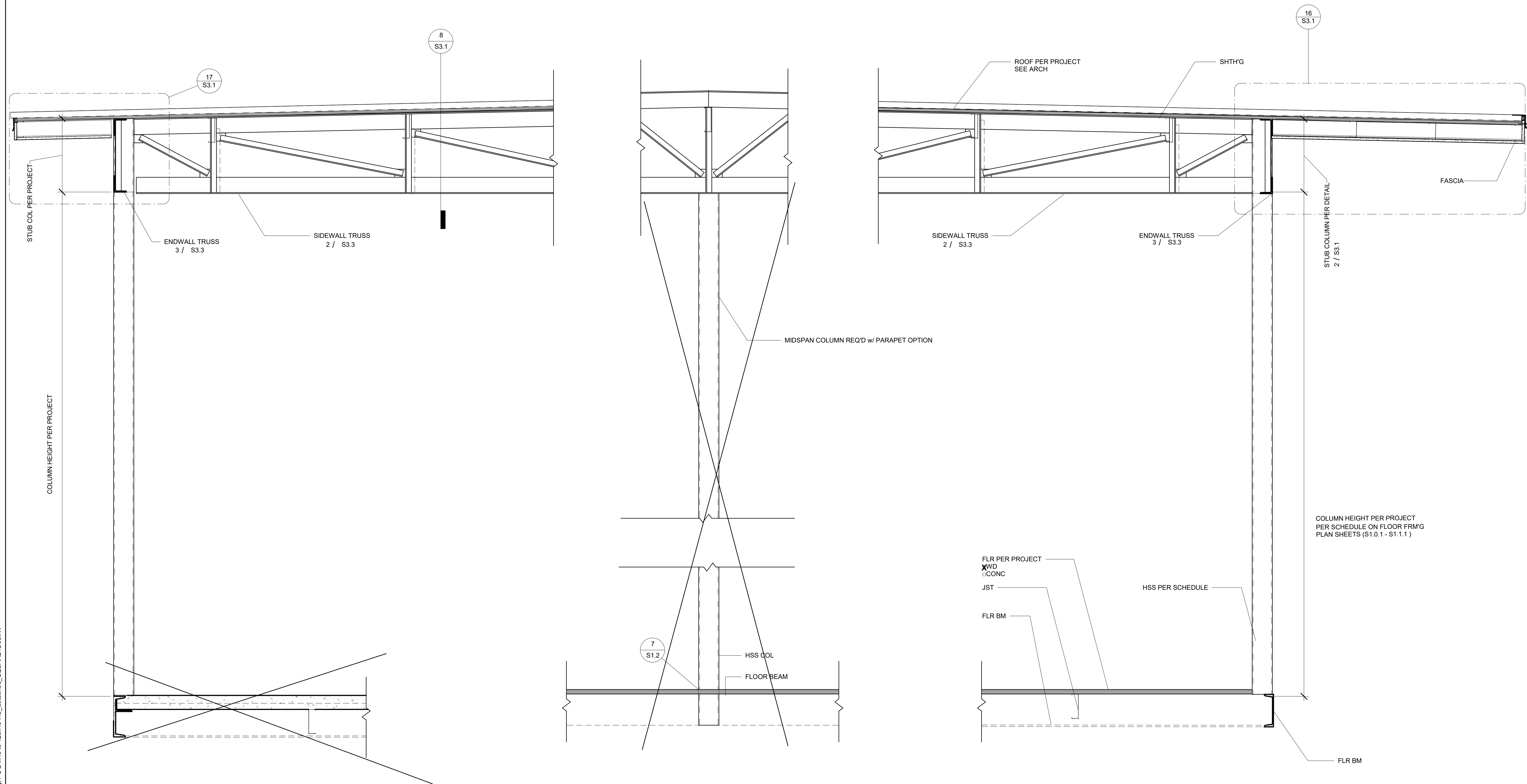
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SHEET NO.
S4.5

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1 1" = 1'-0" Structural Section (DUAL)

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-122805 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 09/28/2023

R&S TAVARES ASSOCIATES
 DESIGN & CONSULTING • PROJECT MGT
 11500 W BERNHARD COURT, SUITE 100
 SAN DIEGO, CA 92127
 WWW.RSTAVARES.COM

PROFESSIONAL STAMP
 REGISTERED PROFESSIONAL ARCHITECT
 MANNY D. FLORES
 63380
 03/31/24
 CALIFORNIA
 STATE OF CALIFORNIA
 05/24/23
 RST#22088

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CLIENT
Class Leasing
 1320 W. Oleander Ave, Perris CA 92571-7408
 VOICE (951) 943-1908 Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

~~APPROVED
 DIV. OF THE STATE ARCHITECT
 APP. 04-121368 PC
 REVIEWED FOR
 SS FLS ACS CG
 DATE: 09/22/2023~~

Revision Schedule		
#	Description	Date

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
**PC 2022 CBC:24' x 40'
 EXPANDABLE TO
 120' x 40'**

SHEET TITLE
**LONG SECTION -
 (DUAL)**

PROJECT NUMBER
 22088

DRAWN BY
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DATE

SHEET NO.
S5.1

SHEET OF

Sheet Number	Sheet Name
A0.0	COVER SHEET
A0.0.1	PROJECT OPTIONS SCHEDULE
A0.1	TYPICAL KEY PLAN AND SCHEDULES, GEN NOTES,
A0.2	SIGNAGE AND SYMBOLS
A0.3	DSA-103 T&I CONCRETE FLOORS
A0.4	DSA-103 T&I PLYWOOD FLOORS
A0.5	CAL GREEN SPEC'S
A0.6	CAL GREEN CHECKLIST
A0.7	CAL GREEN CHECKLIST
A0.8	CAL GREEN CHECKLIST
Architectural	
A1.0	24x40 FLOOR PLAN
A1.1	36x40 FLOOR PLAN
A1.2	48x40 thru 120x40 FLOOR PLAN
A2.1(A)	ARCHITECTURAL DETAILS (WOOD FRAMING SHTG FINISH)
A2.1(B)	ARCHITECTURAL WUI DETAILS (WOOD FRAMING SHTG FINISH)
A2.2	ARCHITECTURAL DETAILS (WOOD FRAMING PLASTER FINISH)
A2.2(A)	ARCHITECTURAL DETAILS (1-HR WOOD FRAMING SHTG FINISH)
A2.2(B)	ARCHITECTURAL WUI DETAILS (1-HR WOOD FRAMING SHTG FINISH)
A2.3	ARCHITECTURAL DETAILS (1-HR WOOD FRAMING PLASTER FINISH)
A2.9	ARCHITECTURAL DETAILS (FLOOR)
A2.9.1	DETERIORATION PRO.-NON WOOD FINISH-SIDING-GONC FLOOR-WD STUDS
A2.9.2	DETERIORATION PRO.-STUCCO EXTERIOR-RIMSH-GONC FLOOR-WD STUDS
A2.9.3	DETERIORATION PRO.-NON WOOD FINISH-SIDING-WOOD FLOOR-WD STUDS
A2.9.4	DETERIORATION PRO.-STUCCO EXTERIOR FINISH-WOOD FLR-WD STUDS
A2.9.5	DETERIORATION T-111 EXTERIOR FINISH-WOOD FLR-WOOD STUDS
A3.0	ADDITIONAL FIRE-RATING DETAILS AND NOTES
A3.0.1	FIRE SEPARATION & PENETRATION DETAILS
A3.1	SINGLE OCC-BATHROOM
A3.1.1	SINGLE OCC-BATHROOM AGE GROUP
A3.1.2	SINGLE OCC-BATHROOM COMBINED AGE GROUP
A3.2	RCP
A3.2.1	CEILING NOTES
A3.3	CEILING DETAILS (T-GRID)
A3.4	CEILING DETAILS (GYR BOARD)
A4.0.1	ROOF PLAN MONO SLOPE (STANDING SEAM)
A4.0.2	ROOF PLAN DUAL SLOPE (STANDING SEAM)
A4.1	ROOF DETAILS (STANDING SEAM)
A4.2.1	ROOF PLAN MONO SLOPE (EPDM)
A4.2.2	ROOF PLAN DUAL SLOPE (EPDM)
A4.3	ROOF DETAILS (EPDM)
A4.4.1	ROOF PLAN W/ PARAPET MONO SLOPE (EPDM)
A4.4.2	ARCHITECTURAL DETAILS (PARAPET)
A5.0	SIDEWALL ELEVATION
A5.1	ENDWALL ELEVATIONS
A5.2	INTERIOR ELEVATIONS
A6.0	SECTION-STANDING SEAM (MONO)
A6.0.1	SECTION-STANDING SEAM (DUAL)
A6.1	SECTION-EPDM (DUAL)
A6.2	SECTION
A6.3	SECTION-EPDM (MONO)
A7.0	ADDITIONAL OPTION DETAILS
A7.1	ADDITIONAL OPTION DETAILS
A7.2	ADDITIONAL OPTION DETAILS
MEP	
E0.1	ELECTRICAL GENERAL NOTES
E1.0	ELECTRICAL PLAN 24x40
E1.1	ELECTRICAL SCHEDULES 24x40
E1.2	ELECTRICAL PLAN 36x40
E1.3	ELECTRICAL SCHEDULES 36x40
E1.4	ELECTRICAL PLAN 48x40 thru 120x40
E1.6	ELECTRICAL SCHEDULE 48x40
M0.1	MISCELLANEOUS NOTES & DETAILS
M0.2	MISCELLANEOUS NOTES & DETAILS
M2.9	24'x40' T24 C2 14 (WALL AC)
M2.10	24'x40' T24 C2 15 (WALL AC)
M2.11	24'x40' T24 C2 16 (ROOF AG)
M2.12	24'x40' T24 C2 15 (ROOF AC)
M2.13	24'x40' T24 C2 16 (WALL AC)
M2.14	24'x40' T24 C2 16 (WALL AC)
M3.3	ENVELOPE AND NOTES
M5.1	MECHANICAL CEILING PLAN 24x40
M5.2	MECHANICAL ROOF MOUNT 24x40
M6.1	MECHANICAL CEILING PLAN 36x40
M6.2	MECHANICAL ROOF MOUNT 36x40
M7.1	MECHANICAL CEILING PLAN 48x40 thru 120x40
M7.2	MECHANICAL ROOF MOUNT 48x40 thru 120x40
P1.0	TYPICAL PLUMBING DETAILS
Foundation	
F1.10	WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 50+15
F1.11	WOOD FOUNDATION PLAN 24x40 BLDG W/ 50+15
F1.12	WOOD FOUNDATION 36x40 BLDG W/ 50+15
F1.13	WOOD FOUNDATION PLAN 48x40 BLDG W/ 50+15
F1.14	WOOD FOUNDATION PLAN 48x40 BLDG W/ 50+15
F1.14	MODLINE "B" W/ EXTERIOR WALLS BACK-TO-BACK 150+15 PSF
F1.20	WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 100PSF
F1.21	WOOD FOUNDATION PLAN 24x40 BLDG W/ 100 PSF
F1.22	WOOD FOUNDATION PLAN 36x40 BLDG W/ 100 PSF
F1.23	WOOD FOUNDATION PLAN 48x40 BLDG W/ 100 PSF
F1.24	MODLINE "B" W/ EXTERIOR WALLS BACK-TO-BACK 150 PSF
F1.30	WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 150 PSF
F1.31	WOOD FOUNDATION PLAN 24x40 BLDG W/ 150 PSF
F1.32	WOOD FOUNDATION PLAN 36x40 BLDG W/ 150 PSF
F1.33	WOOD FOUNDATION PLAN 48x40 BLDG W/ 150 PSF
F1.34	MODLINE "B" W/ EXTERIOR WALLS BACK-TO-BACK 150 PSF
F2.10	WOOD FOUNDATION DETAILS
F2.40	CONCRETE FOUNDATION PLAN
F2.20	CONCRETE FOUNDATION DETAILS
F2.30	CONCRETE FOUNDATION DETAILS
F2.33	CONCRETE FOUNDATION DETAILS
Structural	
S0.1	STRUCTURAL GEN NOTES
S1.0.1	WD SHTG FLR FRM'G PLAN (60+15 PSF)
S1.0.4	WD SHTG FLR FRM'G PLAN CROSS-STRAP OPT.
S1.1.1	GONC FLR FRM'G PLAN (60+15 PSF)
S1.2	STRUCTURAL DETAILS (FLOOR)
S3.0.1	MONO SLOPE ROOF FRM'G PLAN
S3.0.2	DUAL SLOPE ROOF FRM'G PLAN
S3.0.3	MONO SLOPE ROOF FRM'G PLAN CROSS-STRAP OPT.
S3.0.4	DUAL SLOPE ROOF FRM'G PLAN CROSS-STRAP OPT.
S3.1	STRUCTURAL DETAILS (ROOF)
S3.2	ROOF DETAILS (ROOF/PARAPET)
S3.3	ROOF PERIMETER TRUSS
S4.1	WD WALL FRAMING ELEVATIONS
S4.2	WD WALL DETAILS (WOOD FRAMING)
S4.4	TYP FRAMING
S4.5	FRAMING SCHEDULES
S4.6	LONG-SECTION (MONO)
S5.1	LONG SECTION (DUAL)
S6.0	AWNING FRAMING
Grand total:	145

INDEX	WUI COVER SHEET	(70) RH 24X40	(30) LH 24X40
ALT-A-0.0	WUI COMPLIANT NOTES	C-23-2679 A/B	C-23-2645 A/B
ALT-01		C-23-2680 A/B	C-23-2650 A/B
		C-23-2681 A/B	C-23-2651 A/B
		C-23-2682 A/B	C-23-2652 A/B
		C-23-2683 A/B	C-23-2653 A/B
		C-23-2684 A/B	C-23-2654 A/B
		C-23-2685 A/B	C-23-2655 A/B
		C-23-2686 A/B	C-23-2656 A/B
		C-23-2687 A/B	C-23-2657 A/B
		C-23-2688 A/B	C-23-2658 A/B
		C-23-2689 A/B	C-23-2659 A/B
		C-23-2690 A/B	C-23-2660 A/B
		C-23-2691 A/B	C-23-2661 A/B
		C-23-2692 A/B	C-23-2662 A/B
		C-23-2693 A/B	C-23-2663 A/B
		C-23-2694 A/B	C-23-2664 A/B
		C-23-2695 A/B	C-23-2665 A/B
		C-23-2696 A/B	C-23-2666 A/B
		C-23-2697 A/B	C-23-2667 A/B
		C-23-2698 A/B	C-23-2668 A/B
		C-23-2699 A/B	C-23-2669 A/B
		C-23-2700 A/B	C-23-2670 A/B
		C-23-2701 A/B	C-23-2671 A/B
		C-23-2702 A/B	C-23-2672 A/B
		C-23-2703 A/B	C-23-2673 A/B
		C-23-2704 A/B	C-23-2674 A/B
		C-23-2705 A/B	C-23-2675 A/B
		C-23-2706 A/B	C-23-2676 A/B
		C-23-2707 A/B	C-23-2677 A/B
		C-23-2708 A/B	C-23-2678 A/B
		C-23-2709 A/B	C-23-2679 A/B
		C-23-2710 A/B	C-23-2680 A/B
		C-23-2711 A/B	C-23-2681 A/B
		C-23-2712 A/B	C-23-2682 A/B
		C-23-2713 A/B	C-23-2683 A/B
		C-23-2714 A/B	C-23-2684 A/B
		C-23-2715 A/B	C-23-2685 A/B

NOTE: BUILDING IS TO BE PLACED IN A WUI SITE

WUI URBAN INTERFACE (WUI) CRITERIA:

(PROJECT SPECIFIC BUILDING REQUIREMENTS FOR: FIRE HAZARD SEVERITY ZONE CBC CHAPTER 1A.)

1 ROOF COVERING: (C.B.C SECTION 705A) 26GA. GALV. STEEL, NON-COMBUSTIBLE INTERLOCKED STANDING SEAM ROOF PANEL W/ 20' SPAC. BETWEEN ROOF PANELS AND ROOF DECKING. STANDING SEAM ROOF COVER ONE LAYER #15 ROOF FELT. (CSB 705A.2)

2 ROOFGUTTERS: (C.B.C SECTION 705A.4) SHALL BE SCREENED WITH A CORROSION-RESISTANT NONCOMBUSTIBLE WIRE MESH WITH 1/4" (6MM) OPENINGS OR EQUAL.

3 VERTICAL EXTERIOR WALL VENTS & SOFFIT VENTS: (C.B.C SEC. 708A.2) SCREENED WITH A CORROSION-RESISTANT, NONCOMBUSTIBLE WIRE MESH WITH 1/8" (1.6MM) MIN. OPENINGS AND NOT TO EXCEED 1/8" (3.2MM).

4 EXTERIOR WINDOWS: (C.B.C SECTION 708A.2.1) METAL FRAME, TEMPERED GLASS, OR ASSEMBLY OF FIRE RESIST OF NOT LESS THAN 20 MINUTES.

5 EXTERIOR DOORS: (C.B.C SECTION 708A.3) NON-COMBUSTIBLE METAL DOORS AND FRAME, OR ASSEMBLY OF FIRE RESIST OF NOT LESS THAN 20 MINUTES.

Acceptance tests be completed on newly installed or replacement of lighting controls, mechanical systems, fenestration, and process equipment before project completion per the California Energy Code Section 10-103. Acceptance tests must be performed by a certified Acceptance Test Technician (ATT). The Acceptance Testing procedures must be repeated, and deficiencies corrected until the installation of the specified systems conform and pass the required acceptance criteria. Completed NRCA forms shall be submitted to the project inspector and the district.

CODE	ADOPTED YEAR	ITEM
NFPA 13	2022	AUTOMATIC SPRINKLER SYSTEMS
NFPA 72	2022	NATIONAL FIRE ALARM CODE w/ CALIFORNIA AMENDMENTS

NOTE: VISUAL DEVICES PER UL STANDARD 1971

THIS PC HAS A "PRE-DESIGNED" FIRE SPRINKLER SYSTEM INSTALLED. SEE BELOW FOR SITE REQUIREMENTS BY OWNER

IT IS THE OWNERS RESPONSIBILITY TO ENSURE THE MINIMUM FLOW (GPM) AND PRESSURE (PSI) CAN BE ATTAINED AT THE BASE OF THE RISER AT THE PROPOSED SITE FOR EACH PROPOSED BUILDING.

THIS PC REQUIRES:

MINIMUM GPM = 250
MINIMUM PSI = 35

A. WATER TANK

- FIRE PUMP
- BACK UP FIRE SUPPLY

B. ADDITIONAL UNDERGROUND FIRE LINE TAPS

C. ALL OR ANY COMBINATION OF THE ABOVE OR ANY OTHERS AS REQUIRED TO ENSURE PROPER OPERATION OF THE AFS

THE FOLLOWING MUST BE SUPPLIED TO DSA AT THE TIME OF SUBMITTAL WITH THE SITE PLAN FOR EACH PROPOSED BUILDING WITH AN AFS.

- MINIMUM GPM/PSI REQUIRED
- WATER FLOW DATA (SEE DSA A AFFS GUIDELINES)
- SITE PLAN SHOWING THE LOCATION OF THE "FLOW" AND "TEST" HYDRANTS (FULLY DIMENSIONED)
- ALL NEW AND EXISTING UNDERGROUND FIRE LINES/PIPING - LENGTH AND SIZE SHOWING LOCATION AND METHOD OF UNDERGROUND PIPING RESTRAINTS TO TEST HYDRANT
- LOCATION OF ALL (NEW AND EXISTING):
 - FIRE HYDRANTS
 - POST INDICATORS
 - FIRE DEPARTMENT CONNECTIONS
 - PRESSURE REDUCERS
 - BACK-FLOW PREVENTION/DETECTOR CHECK VALVES
 - OTHER FIRE RELATED ITEM/EQUIPMENTS APPLICABLE
- HYDRAULIC CALCULATIONS FOR THE UNDERGROUND PIPING WITH THE AVAILABLE GPM/PSI AT THE BASE OF EACH AFS RISER (MUST MEET OR EXCEED MIN REQ'D)
- ANY CHANGES TO THE CONFIGURATION (WALLS, CEILINGS, CONSTRUCTION TYPE) OR OCCUPANCY OF THE PC WILL NECESSITATE ADDITIONAL/REVISED HYDRAULIC CALCULATIONS

STOCKPILE # 340

(100) 24X40

(30) LEFT HAND DOOR ENTRY

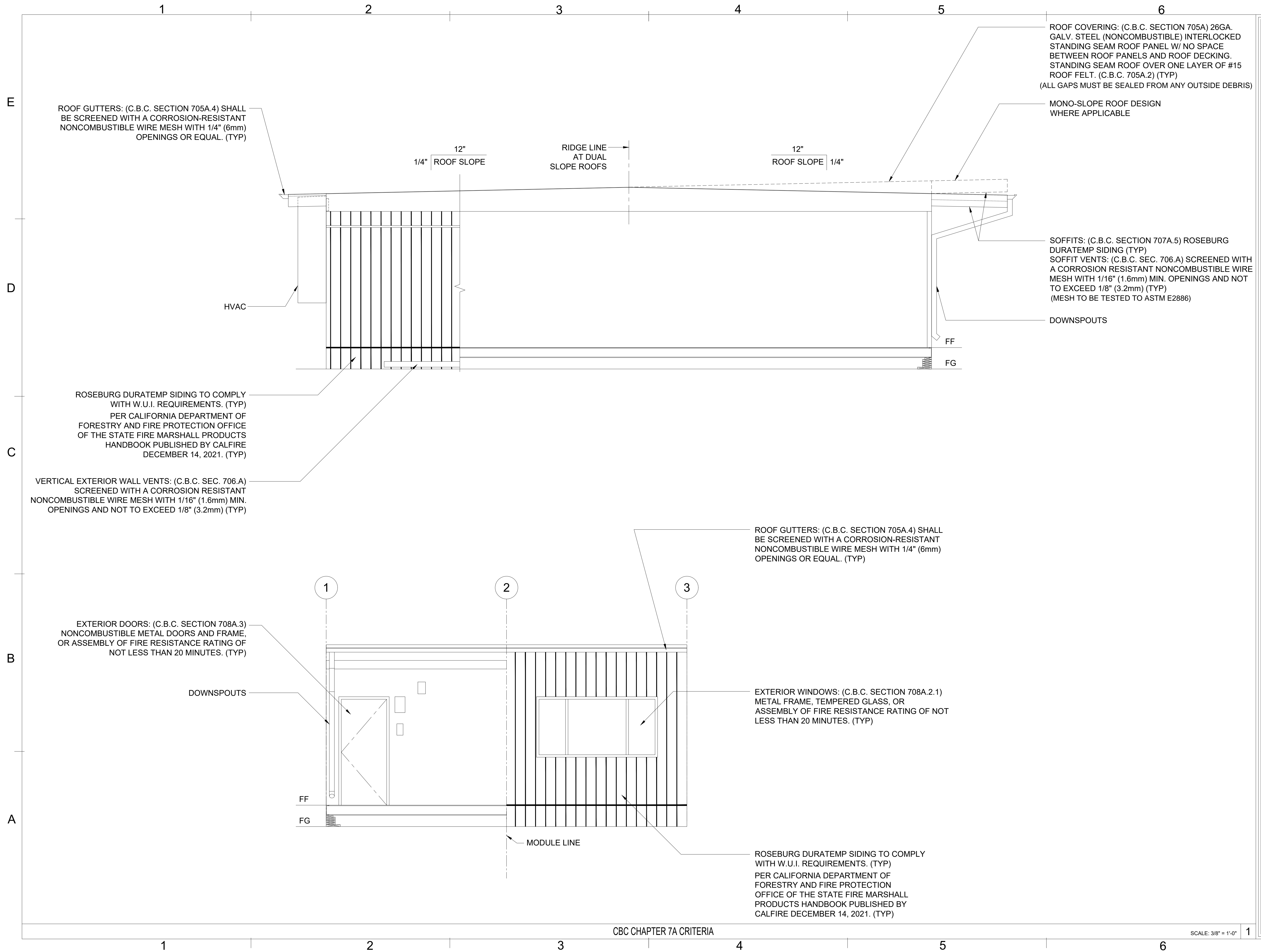
(70) RIGHT HAND DOOR ENTRY

HIGH SEISMIC DESIGN CRITERIA

FILE #: PC-128

2022 CBC

AB	ANCHOR BOLT	FIXT	FUTURE	PAR	PARALLEL
ABC	AGGREGATE BASE COURSE	FLR	FLOOR	PCC	PRECAST CONCRETE
ABW	ASPH	FLUR	FLUORESCENT	PCF	PRECAST CONCRETE FOUNDATION
AD	AREA DRAIN	FLEX	FLEXIBLE	PERF	PERFORATE (C)
ADH	ADHESIVE	FO'	FACE OF	PERI	PERIMETER
ADJ	ADJUNCT, ADJUSTABLE	FR	FIREPROOF (ED)	PIB	PREFABRICATE (D)
ADN	ALTERNATE DIRECTION	FRG	FRAMING	PL	PLASTER PER SQUARE FOOT
ADOH	ALTERNATE DIRECTION	FRG	FRAMING	PL	PLASTER PER SQUARE FOOT
AF	ABOVE FINISHED FLOOR	FR	FR	PL	PLASTER
AGG	AGGREGATE	FRSD	FURISHED	PL	PLASTER PER LINEAR FOOT
ALM	ALUMINUM	FT	FOOT, FEET	PLWD	PLYWOOD
ANCH	ANCHOR (AGES)	FUR	FURRED, FURRING	PLY	POLYETHYLENE
ANOD	ANODIZED	FV	FIELD VERIFY	POSTEN	POST TENSION (D)
APPRX	APPROXIMATE	GA	GAUGE	POLY	POLYURETHANE
ARCH	ARCHITECT (URAL)	GC	GENERAL CONTRACTOR	PROJ	PROJECT
ASPH	ASPHALT	GK	GASKET	PS	PRESTRESSED CONCRETE
AUTO	AUTOMATIC	GL	GULLIAM	PSF	POUNDS PER SQUARE FOOT
B	BOTTOM	GLM	GULLIAM	PT	POINT
BB	BOND BEAM	GP	GLAZING	P.T.	PRESSURE TREATED
BC	BOTTOM CHORD	GR	GALLONS PER MINUTE	PT	POST TENSIONED CONCRETE
BD	BOARD	GRPL	GYPSUM PLASTER	PNTD	PAINTED
BEG	BEGN (ING)	GRV	GRAVEL, GRANULAR	PVD	POLYVINYL CHLORIDE PAVEMENT
BEL	BELT	GRV	GRAVEL	QTY	QUANTITY
BT	BUTTIMOUS	GSS	GALVANIZED SHEET STEEL	R	RADIUS
BJT	BIRD JOINT	GT	GROUT	RAD	RADIUS
BLOG	BLOCK (G, NG)	GVL	GRAVEL	RD	ROAD
BLW	BELW	GWB	GYPSUM WALLBOARD	RD	ROAD
BM	BENCH MARK	H	HIGH	REF	REFERENCE; REFER TO
BMK	BENCH MARK	H	HIGH	REF	REFERENCE; REFER TO
BO'	BOARDING PLATE	H	HARDBOARD	REF	REFERENCE; REFER TO
BRD	BOARD	H	HARDBOARD	REF	REFERENCE; REFER TO
BRGD	BRIDGING	H	HARDBOARD	REF	REFERENCE; REFER TO
BRG	BEARING	H	HARDBOARD	REF	REFERENCE; REFER TO
BRK	BROOK	H	HARDBOARD	REF	REFERENCE; REFER TO
BRZ	BOTH SIDES	H	HARDBOARD	REF	REFERENCE; REFER TO
BS	BOTH SIDES	H	HARDBOARD	REF	REFERENCE; REFER TO
BTWN	BETWEEN	H	HARDBOARD	REF	REFERENCE; REFER TO
BVL	BEVELLED	H	HARDBOARD	REF	REFERENCE; REFER TO
BW	BOTH WAYS	H	HARDBOARD	REF	REFERENCE; REFER TO
CH	CHANNEL, COMPRESSION	H	HARDBOARD	REF	REFERENCE; REFER TO
CAD	CADILLAC	H	HARDBOARD	REF	REFERENCE; REFER TO
CAM	CAMBER	H	HARDBOARD	REF	REFERENCE; REFER TO
CB	CENTER TO CENTER	H	HARDBOARD	REF	REFERENCE; REFER TO
CEM	CEMENT	H	HARDBOARD	REF	REFERENCE; REFER TO
CF	CUBIC FOOT	H	HARDBOARD	REF	REFERENCE; REFER TO
CFM	CUBIC FEET	H	HARDBOARD	REF	REFERENCE; REFER TO
CFR	CONCRETE	H	HARDBOARD	REF	REFERENCE; REFER TO
CFR	CONCRETE	H	HARDBOARD	REF	REFERENCE; REFER TO
CJT	CIRCUMFERENCE	H	HARDBOARD	REF	REFERENCE; REFER TO
CL	CL	H	HARDBOARD	REF	REFERENCE; REFER TO
CLK	CLALK, (G, NG)	H	HARDBOARD	REF	REFERENCE; REFER TO
CLX	CALLING	H	HARDBOARD	REF	REFERENCE; REFER TO
CLS	CLEAR	H	HARDBOARD	REF	REFERENCE; REFER TO
CLS	CLOSURE	H	HARDBOARD	REF	REFERENCE; REFER TO
CM	CENTER TO CENTER	H	HARDBOARD	REF	REFERENCE; REFER TO
CMP	CONCRETE/METAL PIPE	H	HARDBOARD	REF	REFERENCE; REFER TO
CMU	CONCRETE MASONRY UNIT	H	HARDBOARD	REF	REFERENCE; REFER TO
CO	CENTER	H	HARDBOARD	REF	REFERENCE; REFER TO
COG	CENTER OF GRAVITY	H	HARDBOARD	REF	REFERENCE; REFER TO
COMB	COMBINATION	H	HARDBOARD	REF	REFERENCE; REFER TO
COMP	COMPRESS (E)ION(V)BLE	H	HARDBOARD	REF	REFERENCE; REFER TO
COMPO	COMPOSITE	H	HARDBOARD	REF	REFERENCE; REFER TO
CONN	CONNECT (ION)	H	HARDBOARD	REF	REFERENCE; REFER TO
CONC	CONCRETE	H	HARDBOARD	REF	REFERENCE; REFER TO
CONC	CONCRETE	H	HARDBOARD	REF	REFERENCE; REFER TO
CONT	CONTINUE, CONTINUOUS	H	HARDBOARD	REF	REFERENCE; REFER TO
CONTR	CONTRACTOR	H	HARDBOARD	REF	REFERENCE; REFER TO
COR	CORRUGATED	H	HARDBOARD	REF	REFERENCE; REFER TO
CP	COMPLETE PENETRATION	H	HARDBOARD	REF	REFERENCE; REFER TO
CPG	CORPING	H	HARDBOARD	REF	REFERENCE; REFER TO
CPR	COPPER	H	HARDBOARD	REF	REFERENCE; REFER TO
CRS	COUNTERSINK	H	HARDBOARD	REF	REFERENCE; REFER TO
CS	COUNTERSUNK SCREW	H	HARDBOARD	REF	REFERENCE; REFER TO
CTSK	CUBIC	H	HARDBOARD	REF	REFERENCE; REFER TO
CX	CONNECTION	H	HARDBOARD	REF	REFERENCE; REFER TO
CY	CUBIC YARD	H	HARDBOARD	REF	REFERENCE; REFER TO
D	DEEP	H	HARDBOARD	REF	REFERENCE; REFER TO
DBL	DOUBLE	H	HARDBOARD	REF	REFERENCE; REFER TO
DEF	DEFLECTION	H	HARDBOARD	REF	REFERENCE; REFER TO
DEM	DEMOLISH, DEMOLITION	H	HARDBOARD	REF	REFERENCE; REFER TO
DEP	DEPARTMENT	H	HARDBOARD	REF	REFERENCE; REFER TO
DET	DETAIL	H	HARDBOARD	REF	REFERENCE; REFER TO
DIA	DIAGONAL	H	HARDBOARD	REF	REFERENCE; REFER TO
DN	DIVISION	H	HARDBOARD	REF</	



IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP. 04-122805 INC:
 REVIEWED FOR
 SS FLS ACS
 DATE: 09/28/2023

REVISIONS	BY

Class Leasing
 1651 S. Juanita St. San Jacinto, CA 92583-5003
 VOICE (951) 943-1908 FAX (951) 943-5768

ENGINEER

 09/28/23

AOR

SHEET TITLE:

DATE:

DRAWN BY: Gama B.

SCALE: AS SHOWN

JOB:

SHEET NO:
ALT-01

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020

- LIST OF APPLICABLE CODES**
 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
 2022 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEN), PART 11, TITLE 24 CCR
 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
 TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS
 FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

*CALIFORNIA ADMINISTRATIVE CODE, PART 1, CHAPTER 10, ADMINISTRATIVE REGULATIONS FOR THE CALIFORNIA ENERGY COMMISSION (CEC)

GENERAL NOTES

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATION SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT(CCD) BY DSA AS REQUIRED BY SECTION 4-338 PART 1, TITLE 24, CCR

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT(OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. DUTIES OF INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1 TITLE 24, CCR

COMPLETE ACCESS IS A DIVISION OF INTEGRATED STAIR SYSTEMS INC. WITH CORPORATE OFFICES LOCATED IN 1345 RYAN RD, BUCKLEY, WA 98321, (360) 829-4220

DESIGN LOADS

LIVE LOAD: 100 PSF (4.8 kPa)
 HANDRAIL IMPACT: 200 LBS (0.9kN)
 HANDRAIL DIST. LOAD: 50 PLF (0.7 kN/m)

RISK CATAGORY: III

SEISMIC: Ss=2.80g, S1=1.99g, R=1.25, SITE CLASS D
 LATERAL RESISTING SYST: OTHER STRUCTURES SIMILAR TO BUILDINGS
 WIND: 110 MPH, 3 SEC GUST EXPOSURE "C", Kzt=1.0
 SEIS IMPORTANCE FACTOR: Ie=1.25, Iw=1.0 Cs=1.493
 DESIGN BASE SHEAR, V: 1493 W
 SNOW LOAD: 0 PSF (0 kPa)
 SOIL ALLOWABLE BEARING: 1,000 PSF (4.8 kPa)

MATERIALS

SQUARE STEEL TUBE ASTM A513 GR. C Fy= 33 KSI (345 MPa)
 RAMP OVERHANG POST ASTM A500 B Fy= 46 KSI

*ALL STEEL TO BE COATED WITH GALVANIZED RUST INHIBITING COATING

WOOD FOUNDATION SHALL BE OF FOUNDATION GRADE REDWOOD OR PRESERVATIVE PRESSURE TREATED HEM-FIR #2 AND IS ALLOWED TO REST DIRECTLY ON SOIL OR PAVEMENT.

WELDS

WELDING SHALL BE IN ACCORDANCE WITH AWS D.1.1-10 USING E70XX ELECTRODES FOR STEEL AND AWS D1.2 AND A5.10 FOR ALUMINUM, USING ALMIGWELD ER4043

BOLTS, SCREWS AND NAILS

STEEL TO STEEL CONNECTIONS: ASTM A307 CARBON STEEL BOLTS SHALL BE GRADE 5 ZINC PLATED, HOT DIPPED GALVANIZED TO ASTM A153 OR ELECTROGALVANIZED TO ASTM B63.3. FASTENER SHALL BE LUBRICATED TO ELIMINATE GALLING. ALL STEEL MEMBERS IN CONTACT WITH ALUMINUM SHALL BE ZINC COATED TO ELIMINATE GALVANIC REACTION.

STEEL TO STEEL & WOOD CONNECTIONS: ANSI/ASME STEEL LAG SCREWS, STEEL STANDARD WOOD SCREWS, WOOD TO WOOD CONNECTION: ASTM STANDARD COMMON STEEL NAIL.

ITW RED HEAD CONCRETE WEDGE ANCHORS SHALL BE INSTALLED PER RECOMMENDATION SHOWN IN ESR-2427

HANDRAIL NOTES:

- MANEUVERING CLEARANCE ON EXTERIOR PULL SIDE OF DOOR SHALL BE 42" TYPICAL (610MM) MINIMUM WITH 60" (1524MM) MINIMUM LANDING IN FRONT OF DOOR.
- HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES. HANDRAILS SHALL BE PARALLEL WITH THE SURFACE AND PROJECT 12" (301MM) ON BEYOND TOP OF RISER AND 12" (301MM) PLUS 1 TREAD AT BOTTOM RISER. AT RAMP WHERE HANDRAIL ARE NOT CONTINUOUS BETWEEN RUNS THE HANDRAIL SHALL EXTEND HORIZONTALLY ABOVE THE LANDING 12" (301MM) MINIMUM BEYOND THE BEGINNING AND ENDING OF RAMP
- TOP OF HANDRAILS SHALL BE MOUNTED BETWEEN 34" (864MM) AND 38" (965MM) ABOVE THE WALKING SURFACE, ONE CONSISTENT HEIGHT, BEGINNING TO END.
- CLEARANCE BETWEEN HANDRAIL AND WALL SHALL BE A MINIMUM OF 1-1/2" (38MM).
- GUARDS ARE TO BE DESIGNED FOR A CONCENTRATED LOAD OF 200 LBF (0.9 kN) APPLIED @ ANY POINT AND ANY DIRECTION ALONG THE RAIL OR A UNIFORM LOAD OF 50 PLF (0.7 kN/m) APPLIED HORIZONTALLY @ HANDRAIL HEIGHT.
- HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF 1-1/4" (31.75MM) MINIMUM AND NOT GREATER THAN 2" (51MM) MAXIMUM. 11B-605.7.2 NON-CIRCULAR CROSS SECTIONS, HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES (102 MM) MINIMUM AND 6 1/8 INCHES (159 MM) MAXIMUM, AND A CROSS-SECTION DIMENSION OF 2 1/4 INCHES (57 MM) MAXIMUM.
- GRIPPING SURFACE SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES.
- HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS.
- ENDS OF HANDRAILS SHALL RETURN SMOOTHLY TO FLOOR, WALL OR POST.

RAMP NOTES

- RAMP SHALL CONFORM TO CBC 2022 TITLE 24 PART 2, CHAPTER 11B, 11B-405
- RAMP SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12 (8% SLOPE) FOR A MAXIMUM RISE OF 30" (762MM)
- THE MAXIMUM VERTICAL RISE OF RAMP RUN SHALL BE 30" (762MM) MAXIMUM
- RAMP SHALL HAVE LANDING AT BOTTOM AND TOP OF EACH RAMP RUN
- THE SLOPE ON LANDINGS SHALL NOT BE STEEPER THAN ONE UNIT VERTICAL IN 48 UNITS HORIZONTAL (2% SLOPE) IN ANY DIRECTION
- LANDING SHALL HAVE A WIDTH AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING AND A MINIMUM LENGTH OF 60" IN THE DIRECTION OF TRAVEL @ TOP LANDING - 72" MIN @ BOT LANDING
- CHANGES IN DIRECTION OF TRAVEL SHALL HAVE A LANDING 60" WIDE BY 72" LONG (1524MM X 1829MM) MINIMUM, WITH THE LENGTH BEING IN THE DIRECTION OF DOWNWARD TRAVEL AND CHANGES IN DIRECTION
- MANEUVERING CLEARANCE ON LANDING ADJACENT TO DOORWAYS SHALL BE NO LESS THAN 42" WITH DOOR IN ANY POSITION AND SHALL NOT BE REDUCED BY MORE THAN 3" WHEN DOOR IS FULLY OPENED
- WALKING SURFACE SHALL BE ROUGHED OR SHALL BE OF SLIP RESISTANT DIAMOND PLATE ALUMINUM AND ALL LANDINGS TO BE DESIGNED TO NOT RETAIN STANDING WATER - 2.083 MAX SLOPE ANY DIRECTION

ADDITIONAL NOTES

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR

SCOPE OF WORK

CONSTRUCTION OF RAMP AND STAIRS BUILDINGS (RELOCATABLE)

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC		
Application Number:	School Name:	School District:
DSA File Number:	Increment Number:	Date Created:

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections listed on this form are those that will be performed by the geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

1. TYPE	2. PERFORMED BY
Continuous - Indicates that a continuous special inspection is required	GE (Geotechnical Engineer) - Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic - Indicates that a periodic special inspection is required	LOR (Laboratory of Record) - Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CBC Section 4-335.
Test - Indicates that a test is required	PI (Project Inspector) - Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI (Special Inspection) - Indicates that the special inspection shall be performed by an appropriately qualified approved special inspector.

CS. POST-INSTALLED ANCHORS:	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions), ACI 308-14 Sections 17.8 & 26.13. *May be performed by the project inspector when specifically approved by DSA.
<input checked="" type="checkbox"/>	b. Test post-installed anchors.	Test	LOR	1910A.5. (See Appendix (end of this form) for exemptions).
SJA1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a. 3c. 2202A.1; AISI S100-20 Section A3.1 & A3.2; AISI S240-20 Sections A3.8 & A5; AISI S229-20 Sections A4 & 4.6. *By special inspector or qualified technician when performed off-site.
<input checked="" type="checkbox"/>	b. Test unidentified materials	Test	LOR	2202A.1.
<input checked="" type="checkbox"/>	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/>	d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
SJA3. WELDING:	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
<input checked="" type="checkbox"/>	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/>	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
SJA4. SHOP WELDING (IN ADDITION TO SECTION SJA3):	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a. 1. 4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
<input checked="" type="checkbox"/>	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a. 5 & 5a. 6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
<input checked="" type="checkbox"/>	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291

2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

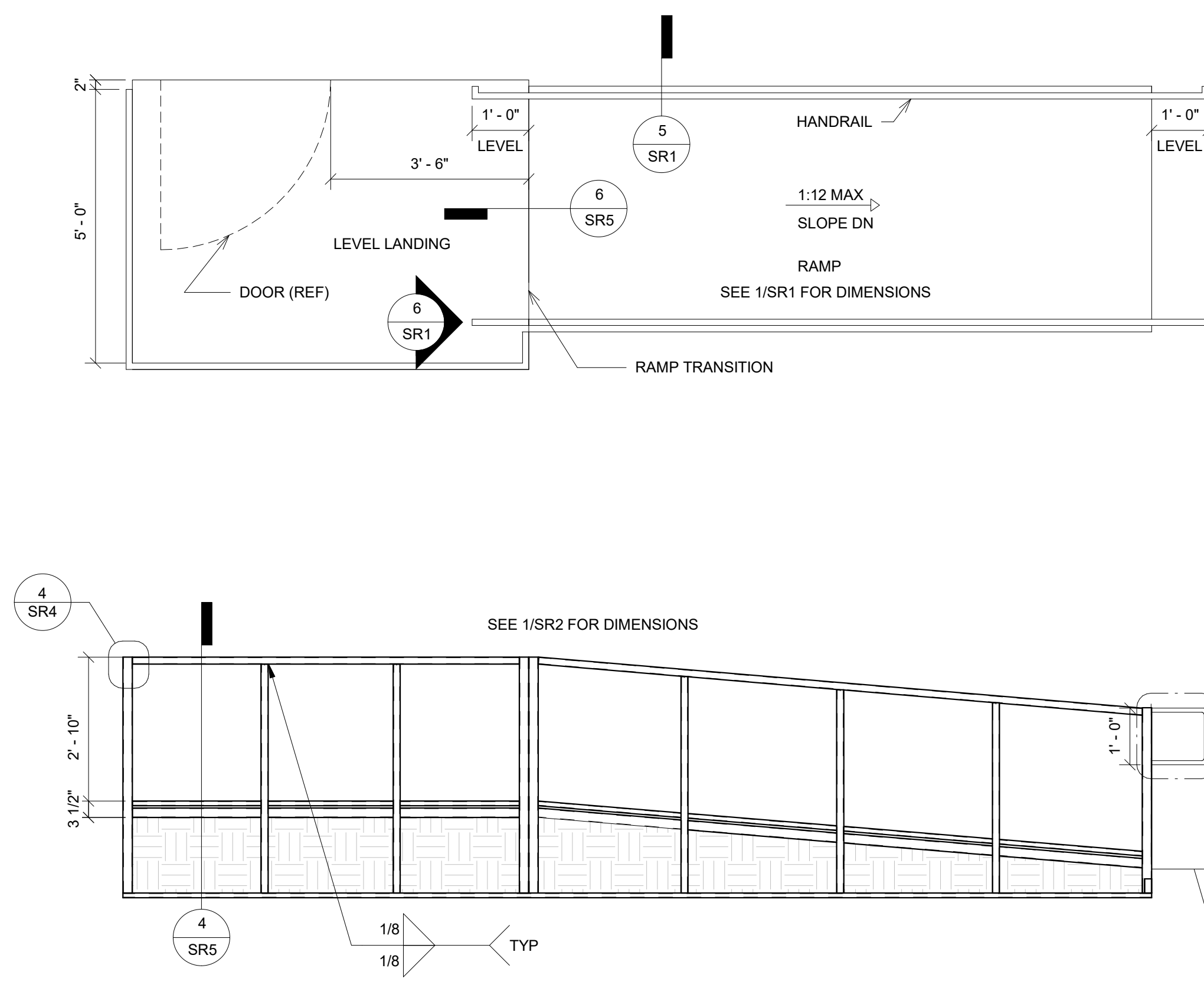
THE EXAMPLE OF FORM DSA-103s SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSE ONLY. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND ALL EXAMPLE FORM DSA-103s ARE TO BE CROSSED OUT ON THIS DRAWING.

Ramp Option Schedule:

- option 1 : ramp & landing @ building (plan view 1/SR1)
 option 2 : ramp and landing with offset ramp (plan view 2/SR1)
 option 3: ramp and platform landing (plan view 3/SR1)
 option 4 : ramp and landing with switch back ramp (plan view 4/SR1)

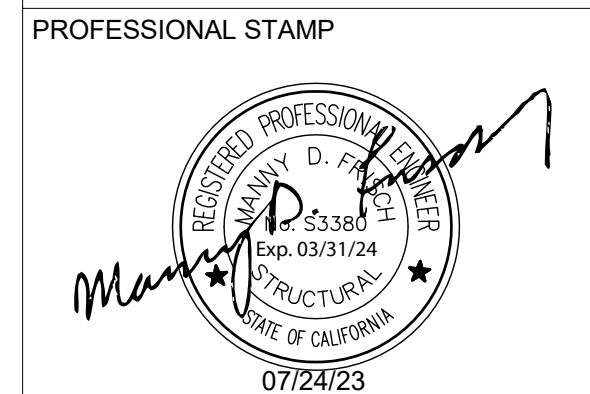


2 Ramps Options w/ Different Building Sizes



3 1/2" = 1'-0" Standard Ramp

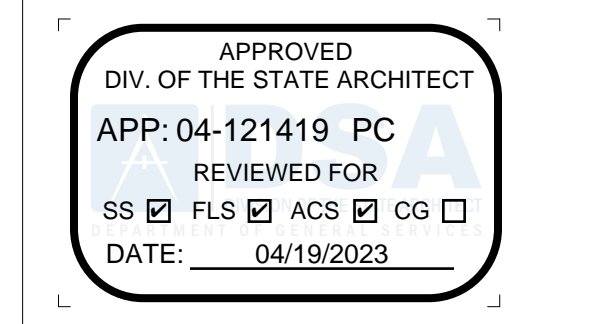
PROJECT SPECIFIC STATE AGENCY APPROVAL



THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEvised SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT
Class Leasing
 1320 W. Oleander Ave, Perris CA 92571-7408
 VOICE (951) 943-1908/Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

#	Description	Date
22079		

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

PROJECT TITLE
RAMPS PC
 CLASS LEASING
 PC#04-121419

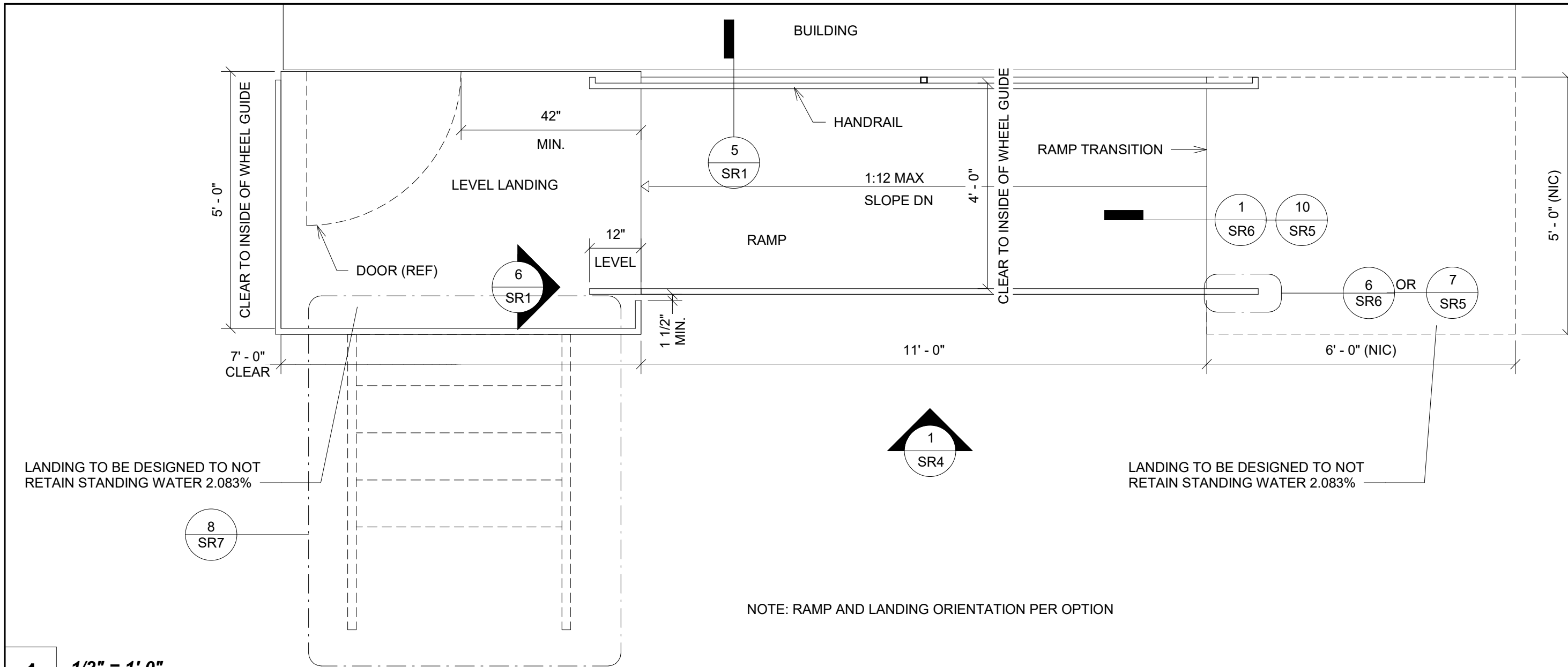
SHEET TITLE
 Module Plan and Notes (COVER SHEET)

PROJECT NUMBER: 22079
 DRAWN BY: SM
 CHECKED BY: rMc
 DATE: 6/15/2021
 SHEET NO. **SR0**
 SHEET OF

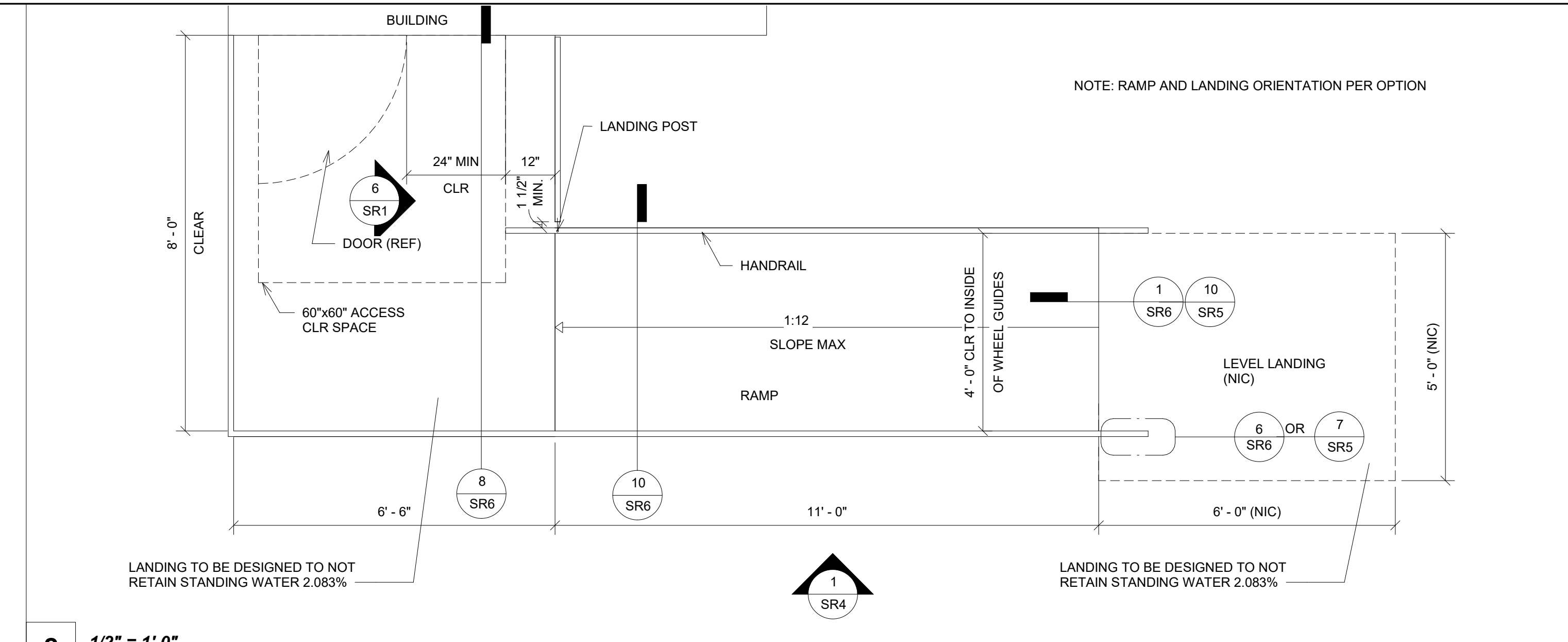
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1 1/2" = 1'-0" Notes

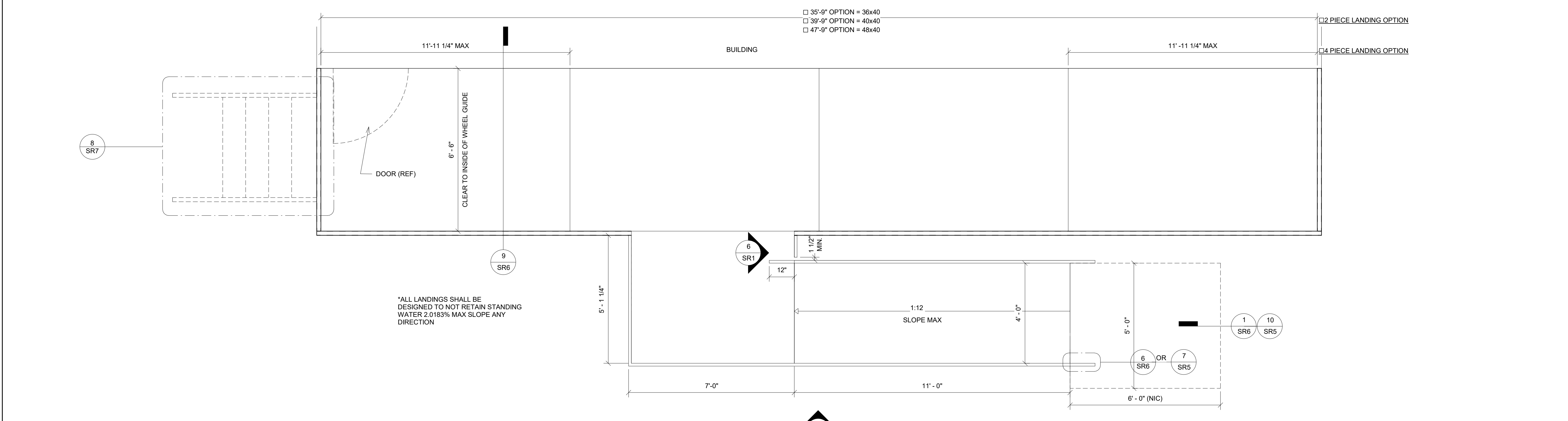
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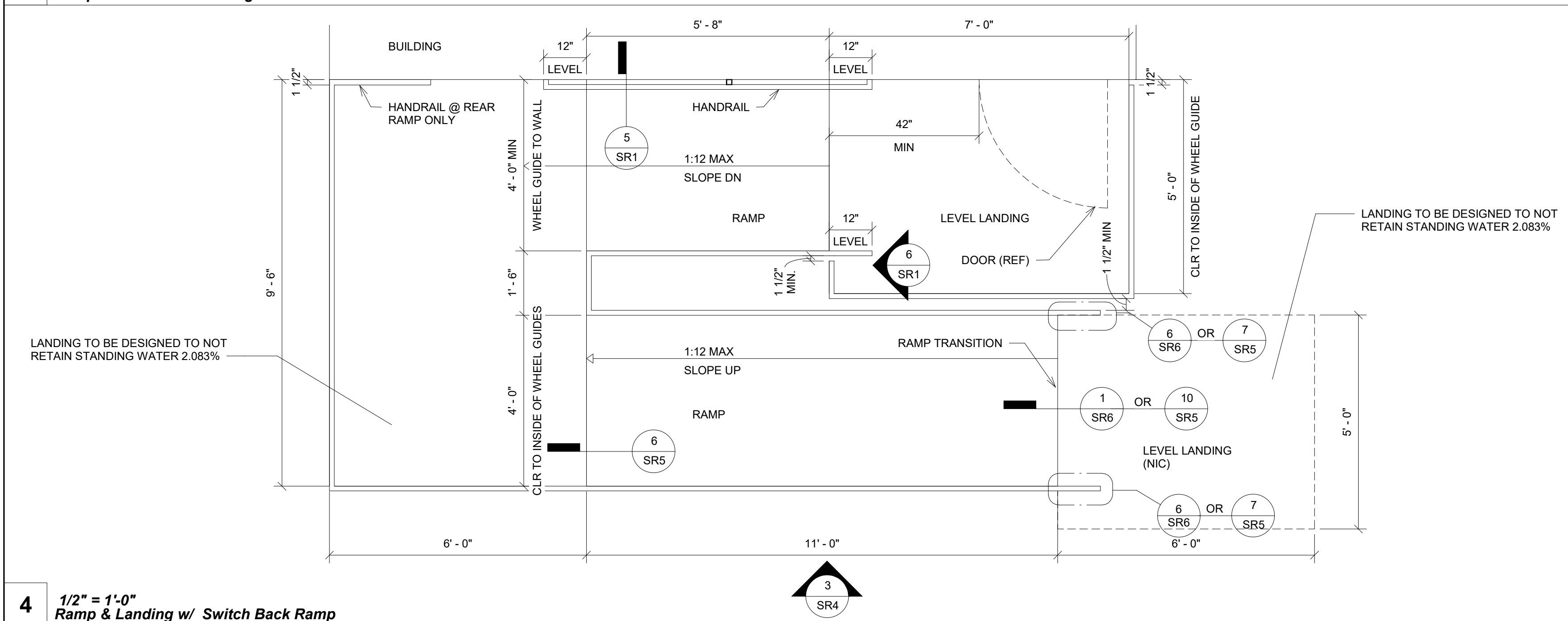
1 1/2" = 1'-0"
Ramp & Landing @ Building



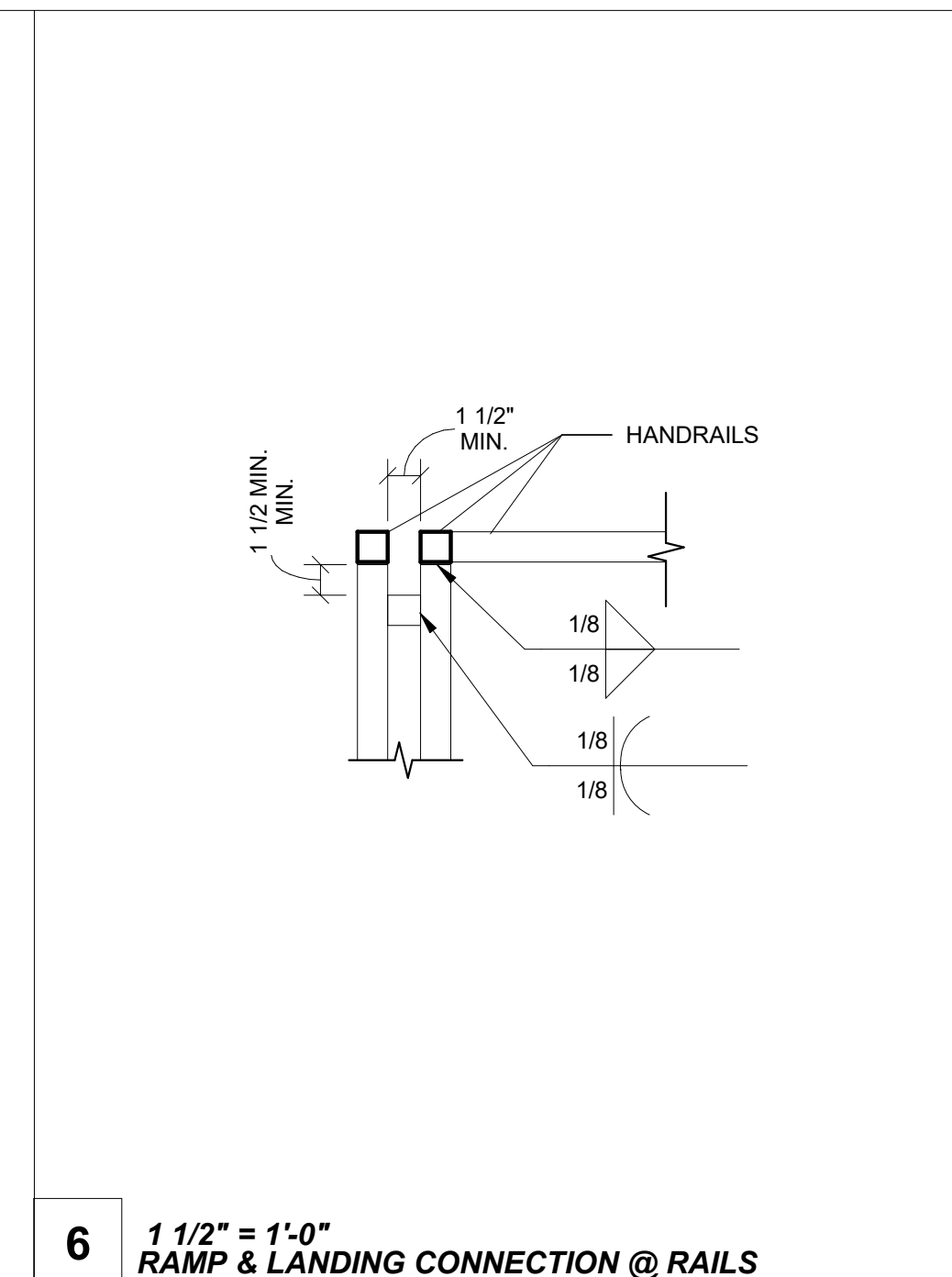
2 1/2" = 1'-0"
Ramp & Landing w/ Offset Ramp



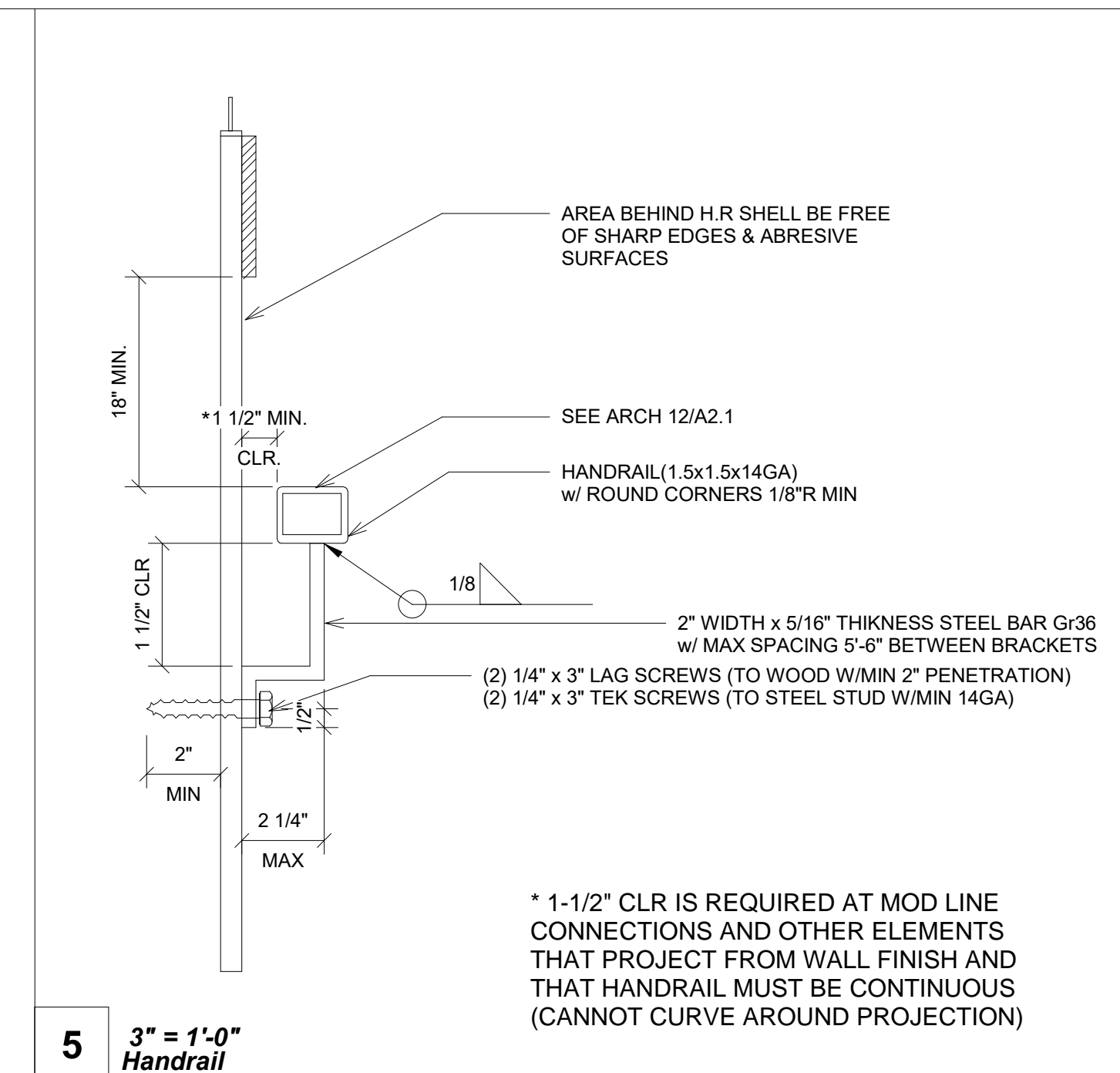
3 1/2" = 1'-0"
Ramp and Platform Landing



4 1/2" = 1'-0"
Ramp & Landing w/ Switch Back Ramp

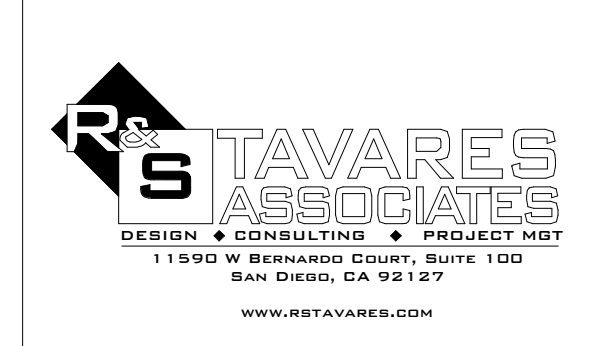


6 1 1/2" = 1'-0"
RAMP & LANDING CONNECTION @ RAILS

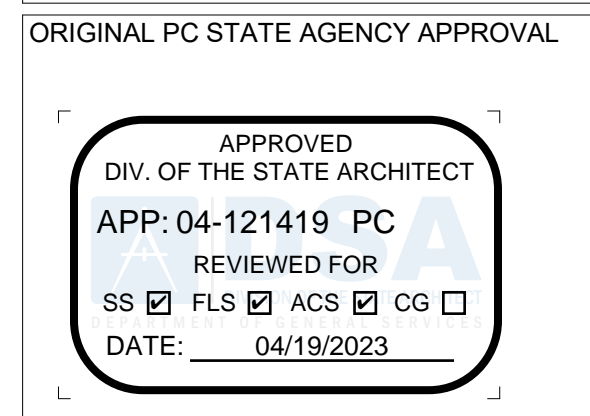


5 3" = 1'-0"
Handrail

PROJECT SPECIFIC STATE AGENCY APPROVAL



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Revision Schedule		
#	Description	Date
22079		

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

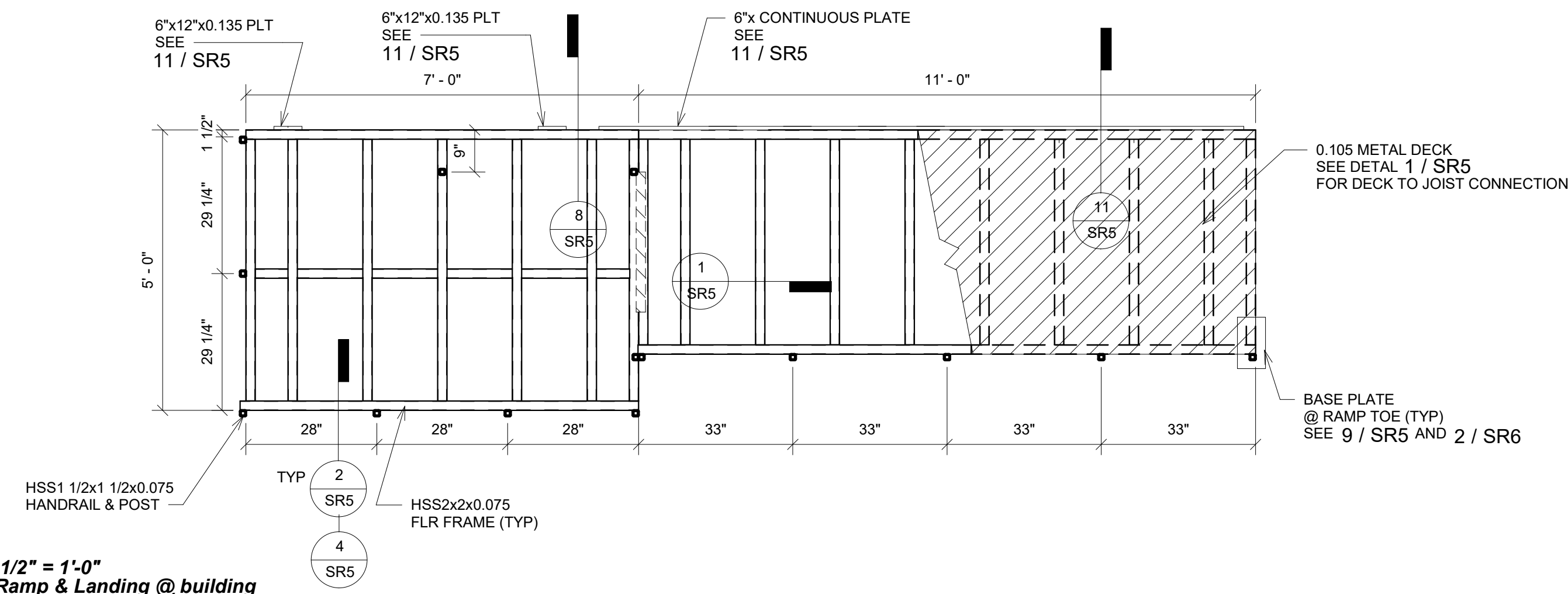
PROJECT TITLE
RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE
Ramp and Landing Plan

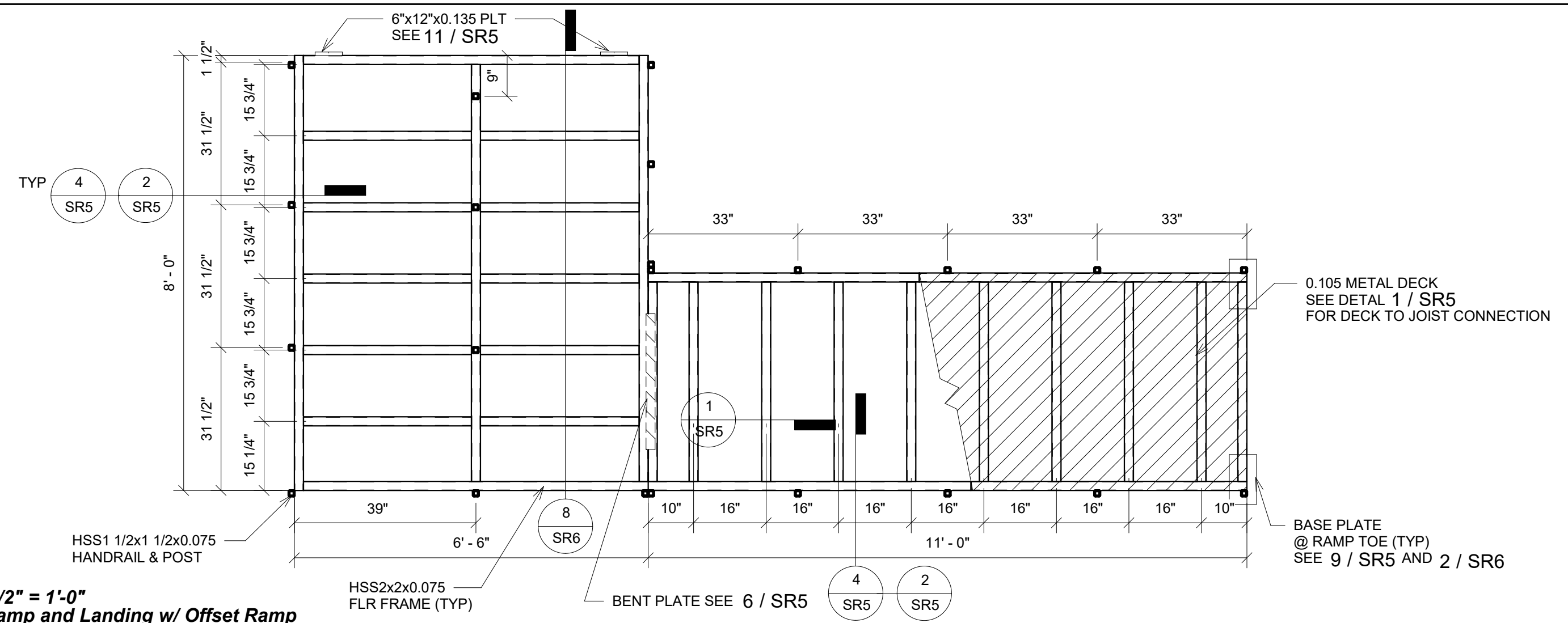
PROJECT NUMBER: 22079
DRAWN BY: SM
CHECKED BY: rMc
DATE: 12/23/2022
SHEET NO.: **SR1**

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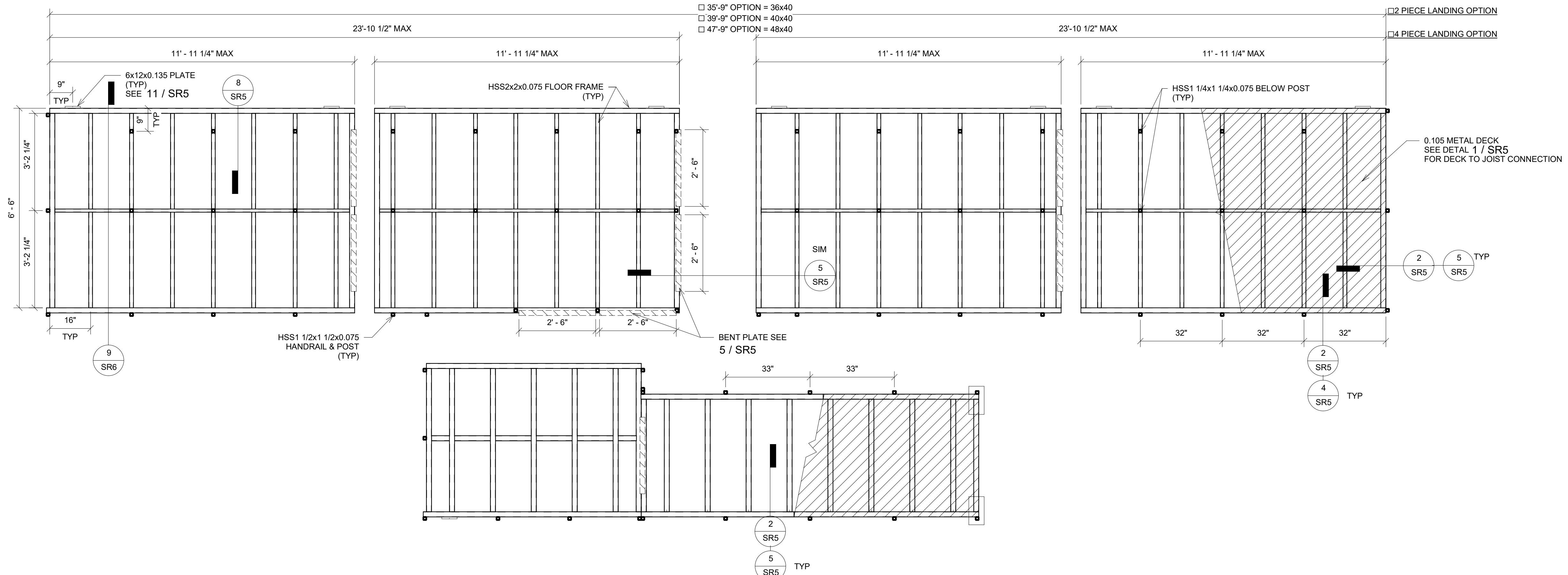
1 1/2" = 1'-0"
Ramp & Landing @ building



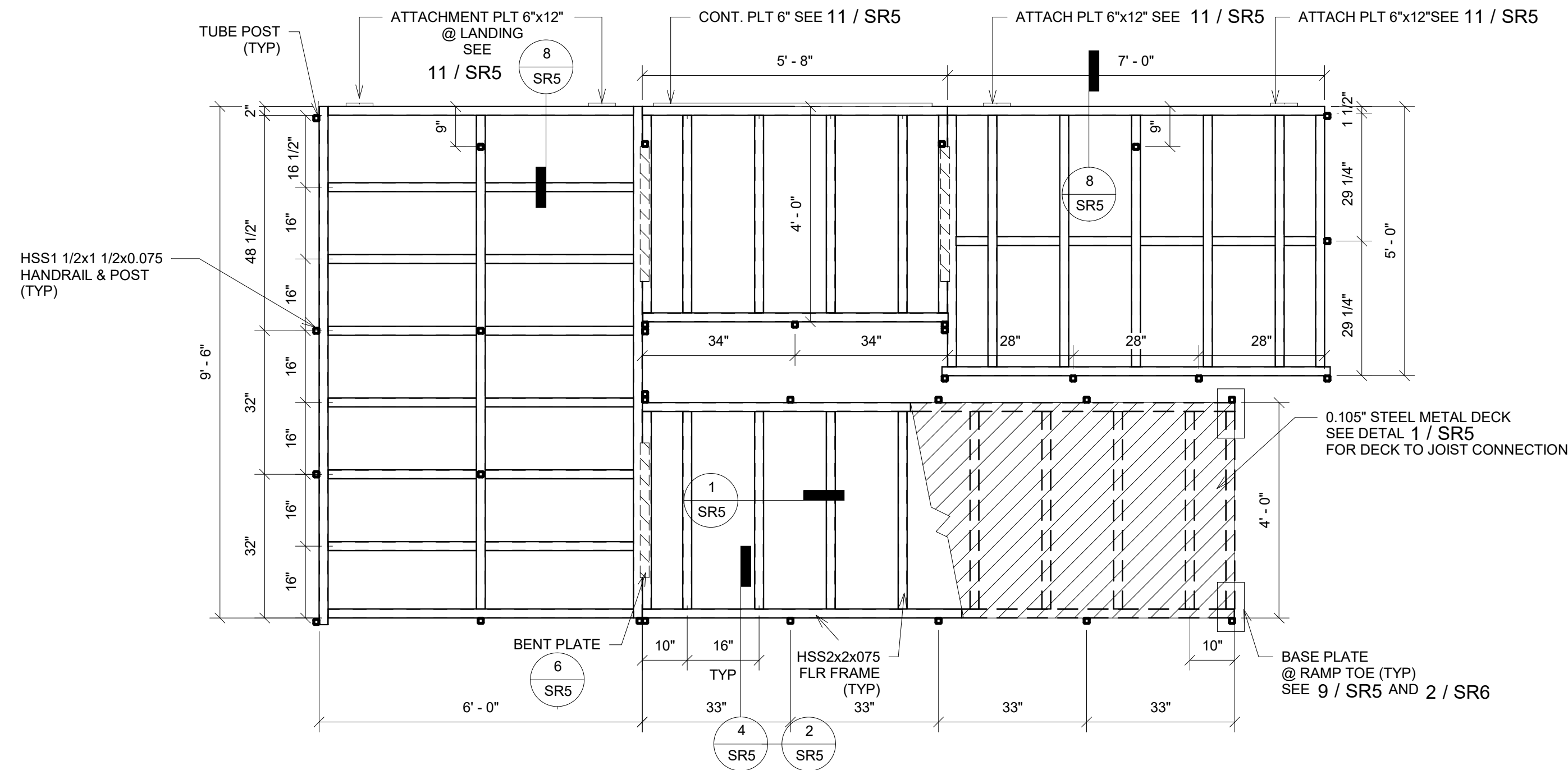
2 1/2" = 1'-0"
Ramp and Landing w/ Offset Ramp



3 1/2" = 1'-0"
Ramp & Platform Landing Frame



4 1/2" = 1'-0"
Ramp & Landing w/ Switch Back Ramp



PROJECT SPECIFIC STATE AGENCY APPROVAL

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1320 W. Oleander Ave, Perris CA 92571-7408
VOICE (951) 943-1908/Fax (951) 943-5768

ORIGINAL PC STATE AGENCY APPROVAL

Revision Schedule		
#	Description	Date
22079		

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE
Ramp and Landing Framing

PROJECT NUMBER
22079

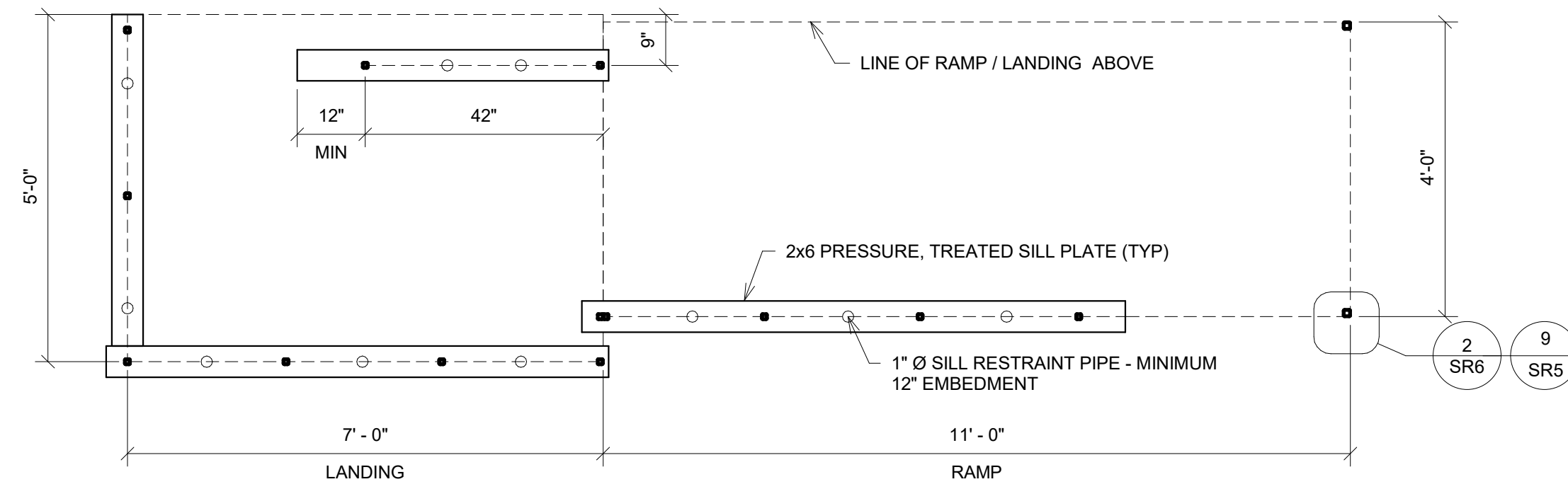
DRAWN BY
SM

CHECKED BY
BR/rMc

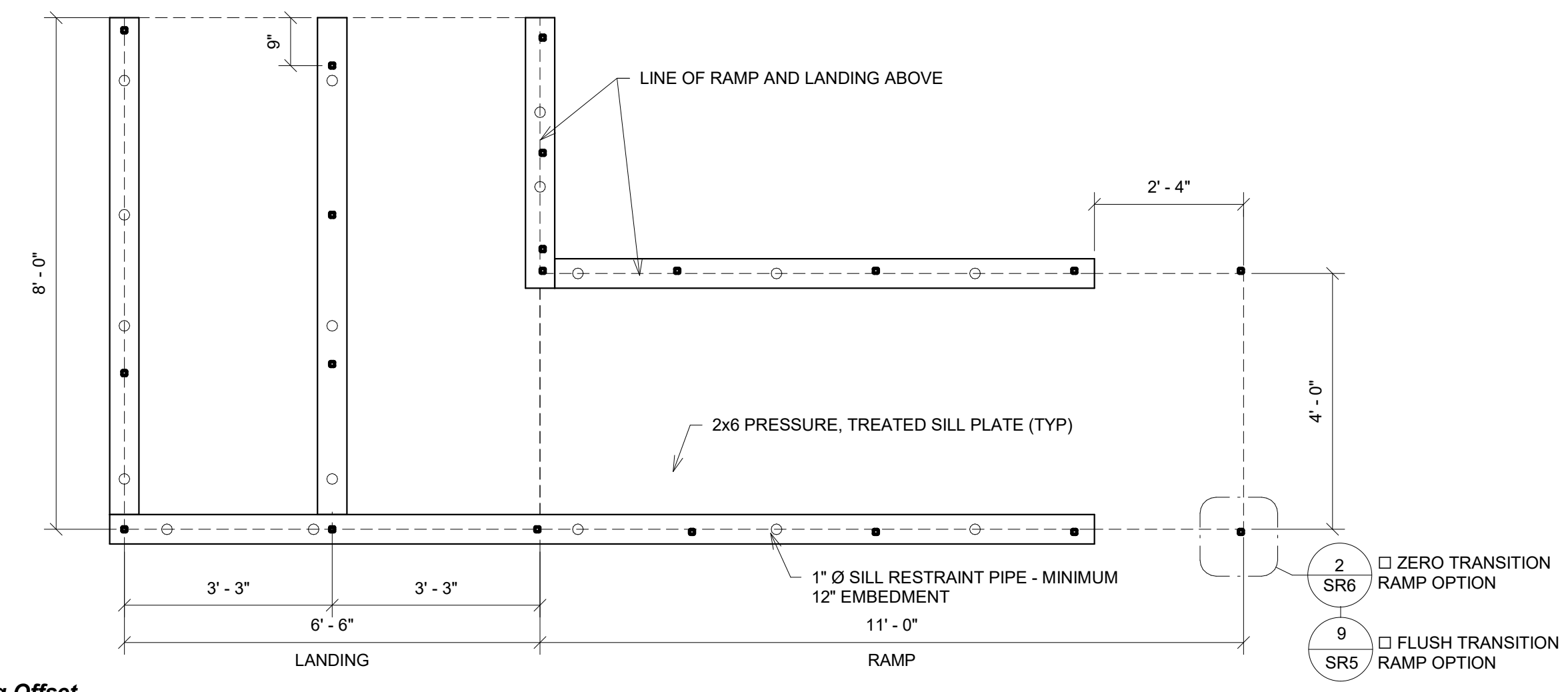
DATE
12/23/2022

SHEET NO.
SR2

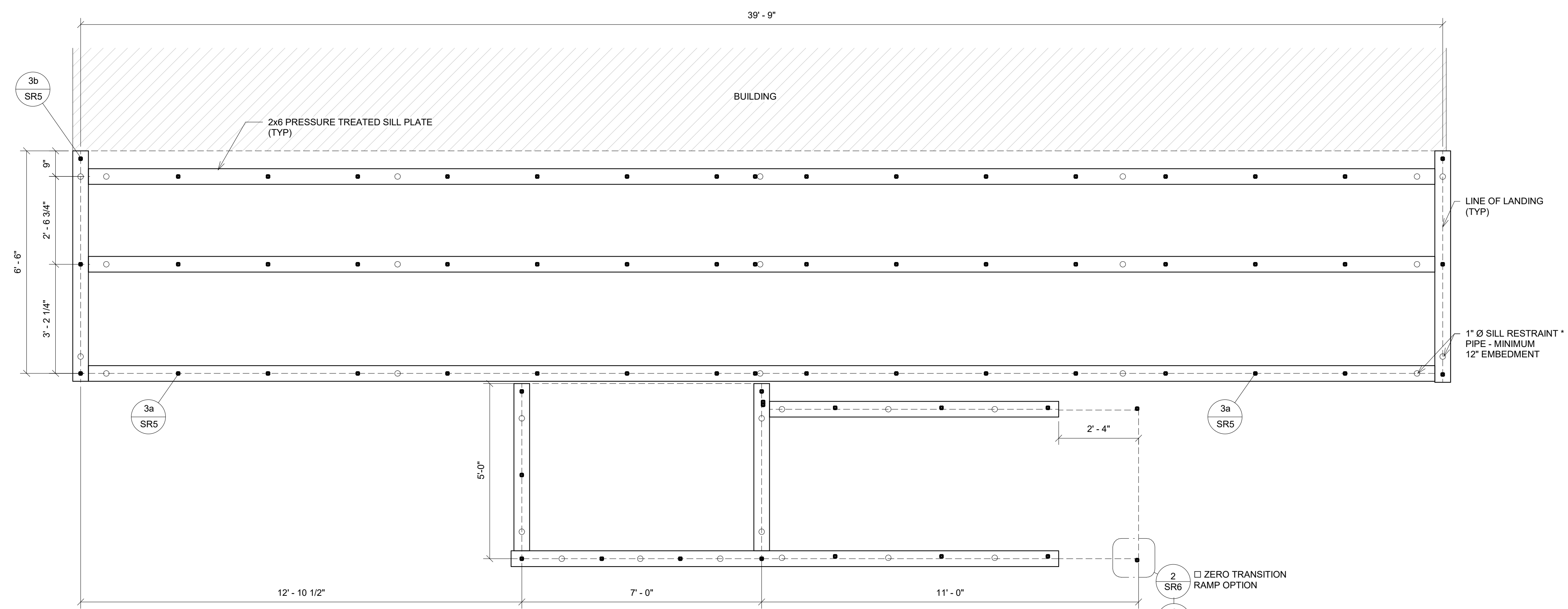
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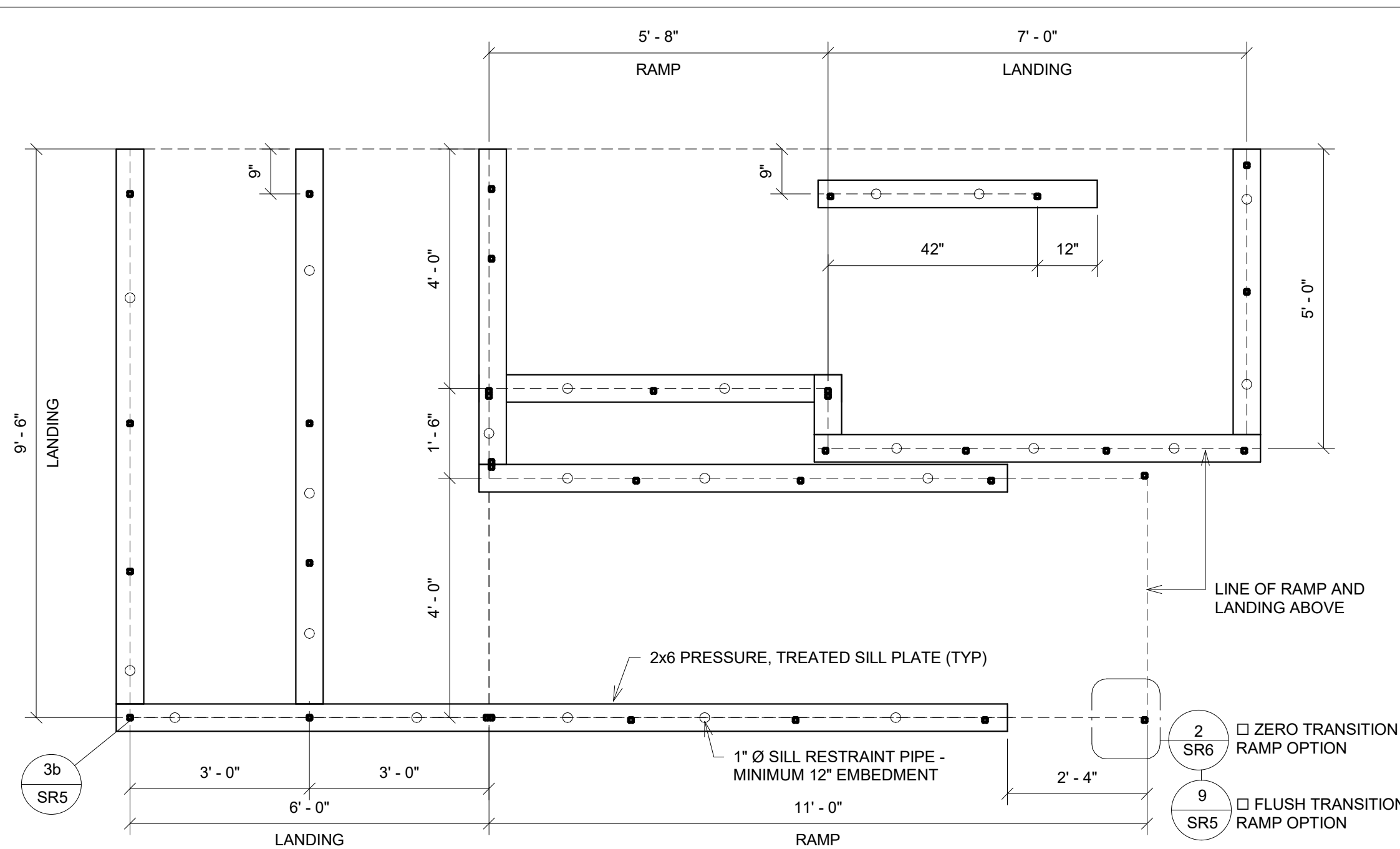
1 1/2" = 1'-0"
Sill Plan For Ramp & Landing



2 1/2" = 1'-0"
Sill Plan For Ramp & Landing Offset



3 1/2" = 1'-0"
Platform Sill Plan For Ramp & Landing



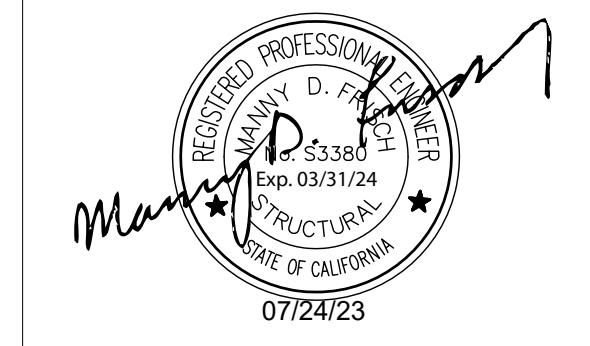
4 1/2" = 1'-0"
Sill Plan For Ramp & Landing Switchback

RESTRAINING PIPES / RODS SPECS
ONE INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL 0.0) NOT DIPPED GALVANIZED PIPES OR ONE INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" o.c.
ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNER IN BOTH DIRECTIONS AND MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATION STRIP. PIPES SHOULD PENETRATE INTO SOIL AND/OR PAVING A MIN. OF 12" MEASURED VERTICALLY. PER DSA IR 16-1

PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP

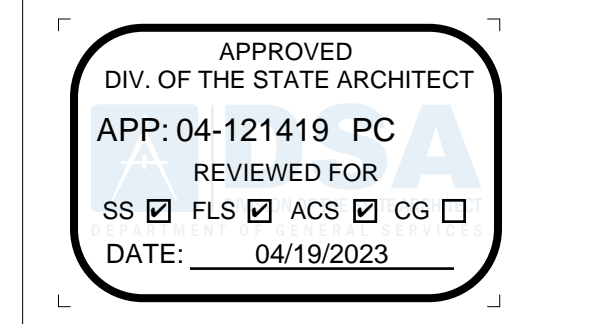


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ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

#	Description	Date
22079		

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE

Foundation Plan

PROJECT NUMBER

22079

DRAWN BY

SM

CHECKED BY

rMc

DATE

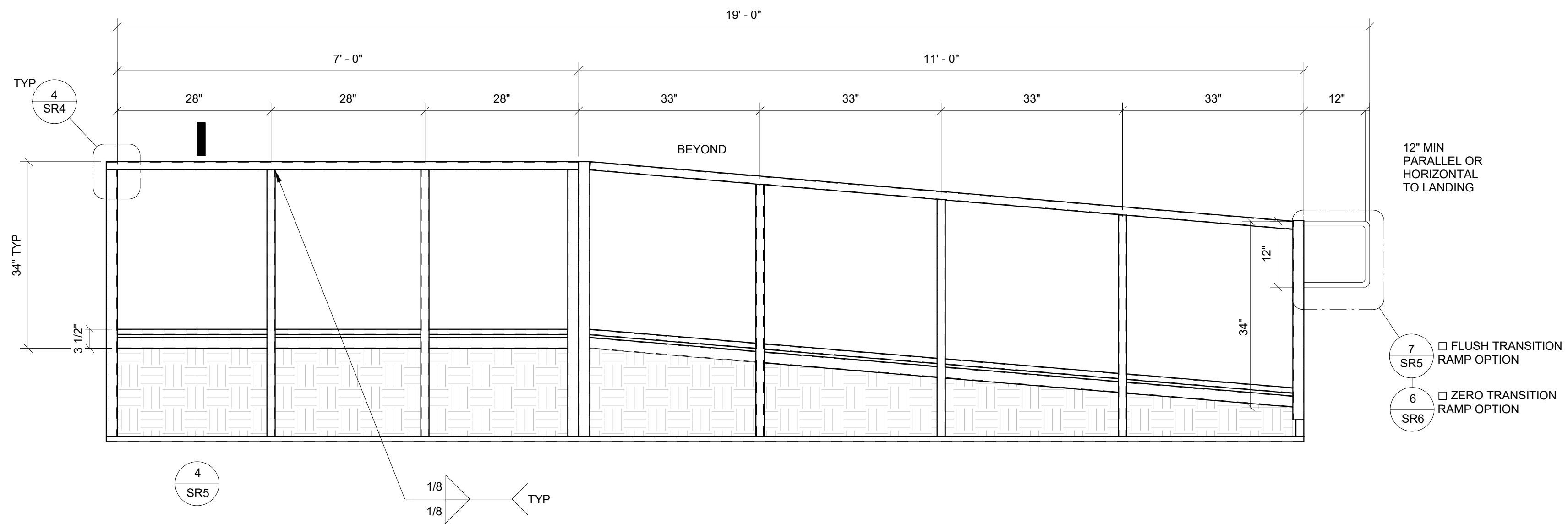
12/23/2022

SHEET NO.

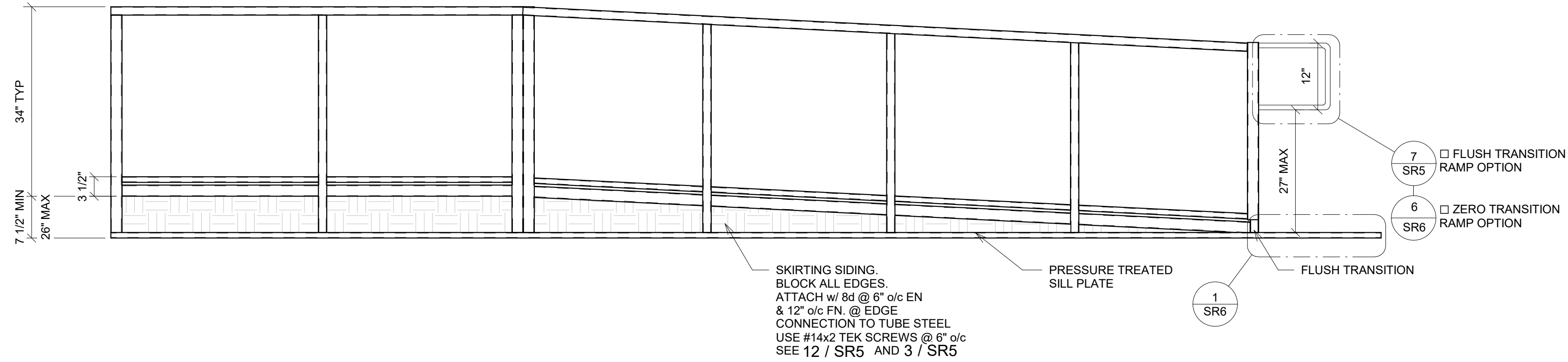
SR3

SHEET OF

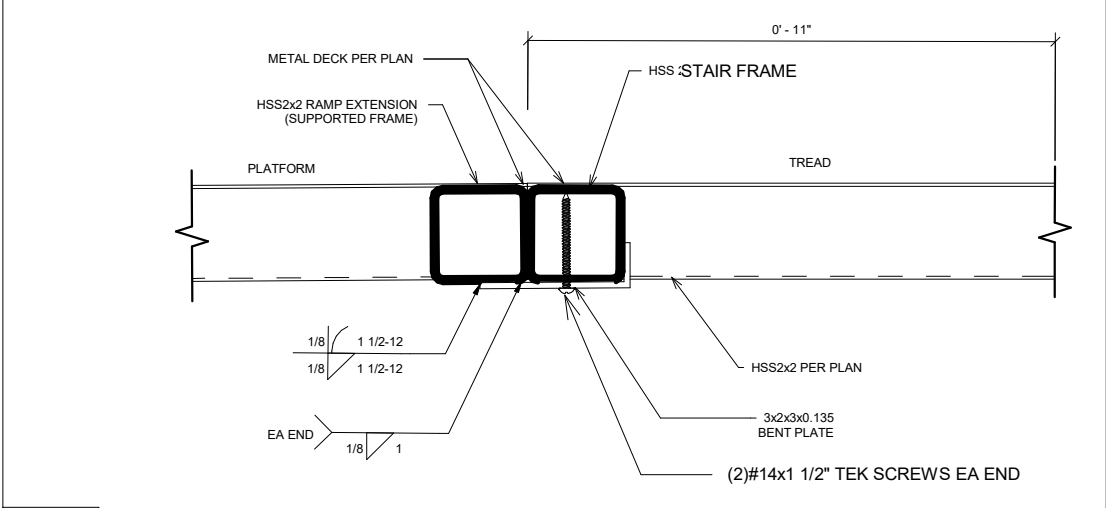
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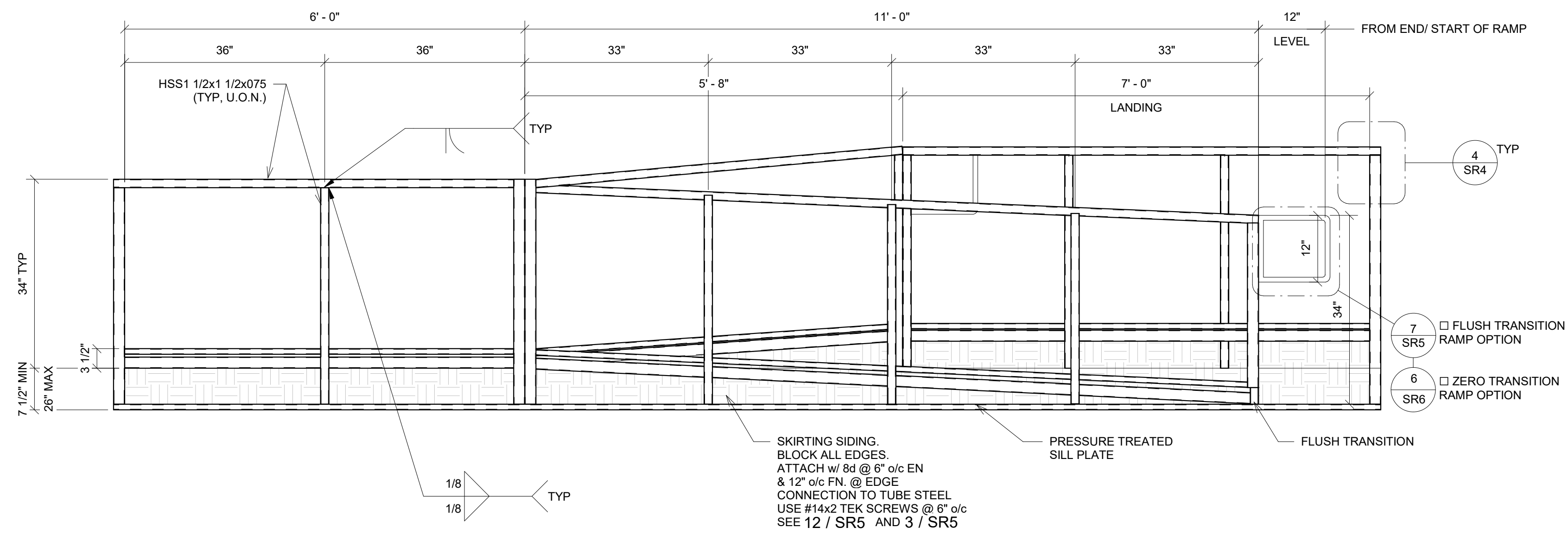
1 3/4" = 1'-0"
Ramp & Landing Elevation



2 3/4" = 1'-0"
Ramp & Landing Elevation Option X Copy 1

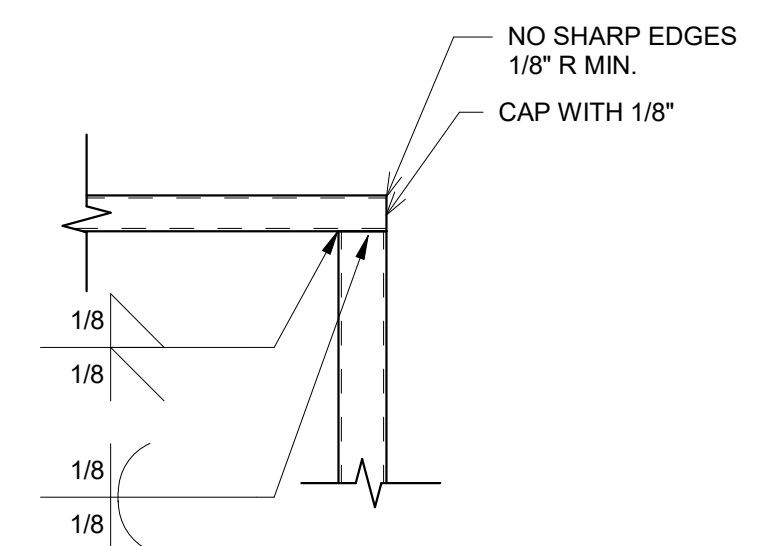


5 3" = 1'-0"
Conn @ Platform



3 3/4" = 1'-0"
Ramp & Landing Elevation Option X

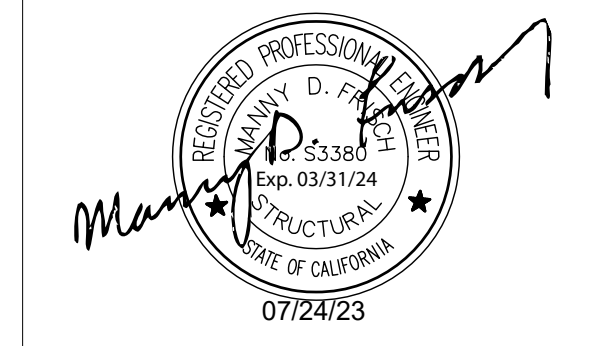
4 1 1/2" = 1'-0"
Ramp & Landing Elevation Option X1 - Callout 1



PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP

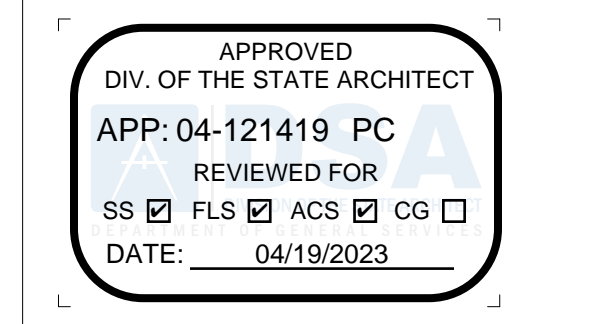


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ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

#	Description	Date
22079		

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE
Ramp and Landing / Stair Framing Elevation

PROJECT NUMBER
22079

DRAWN BY
SM

CHECKED BY
rMc

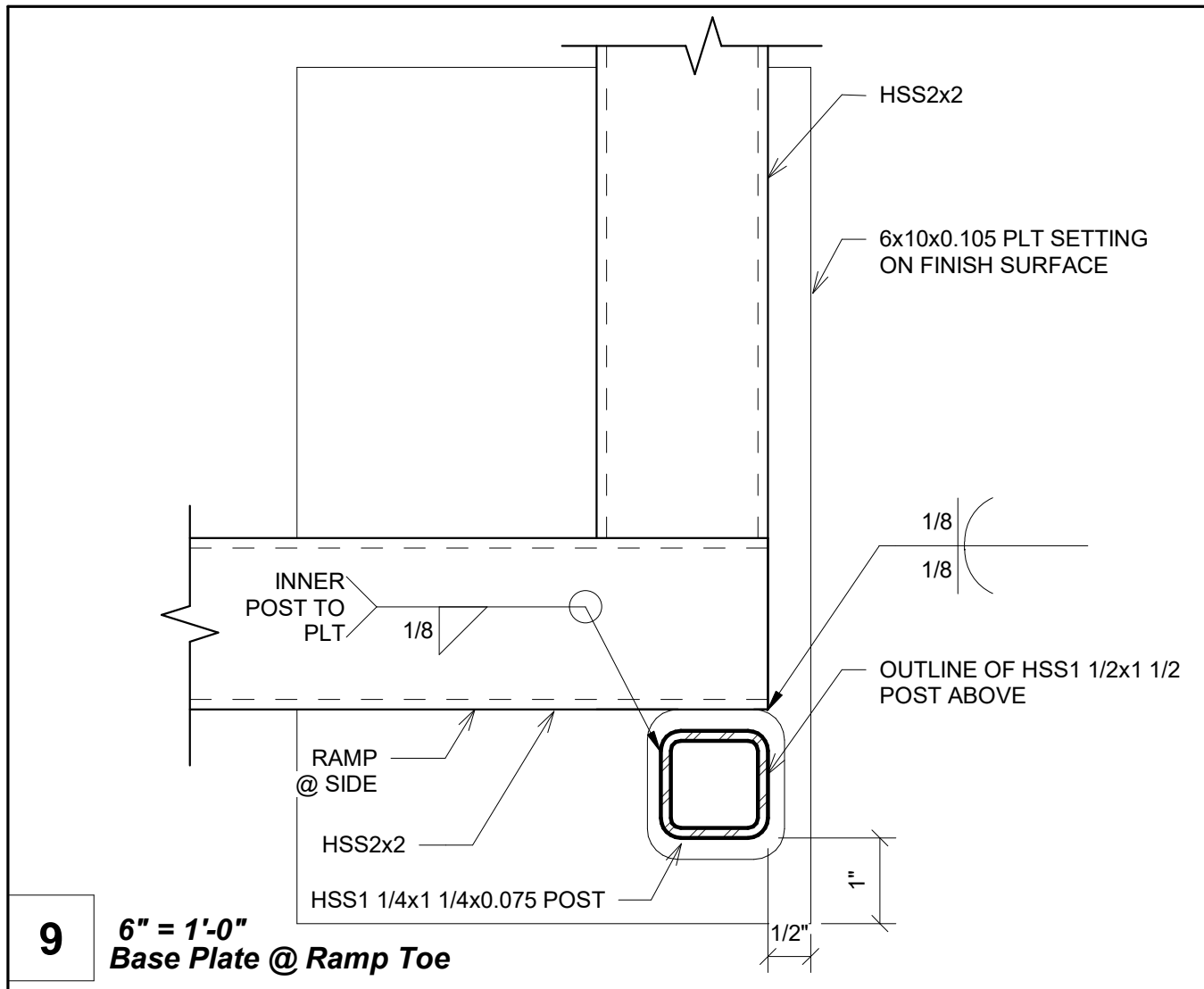
DATE
12/23/2022

SHEET NO.
SR4

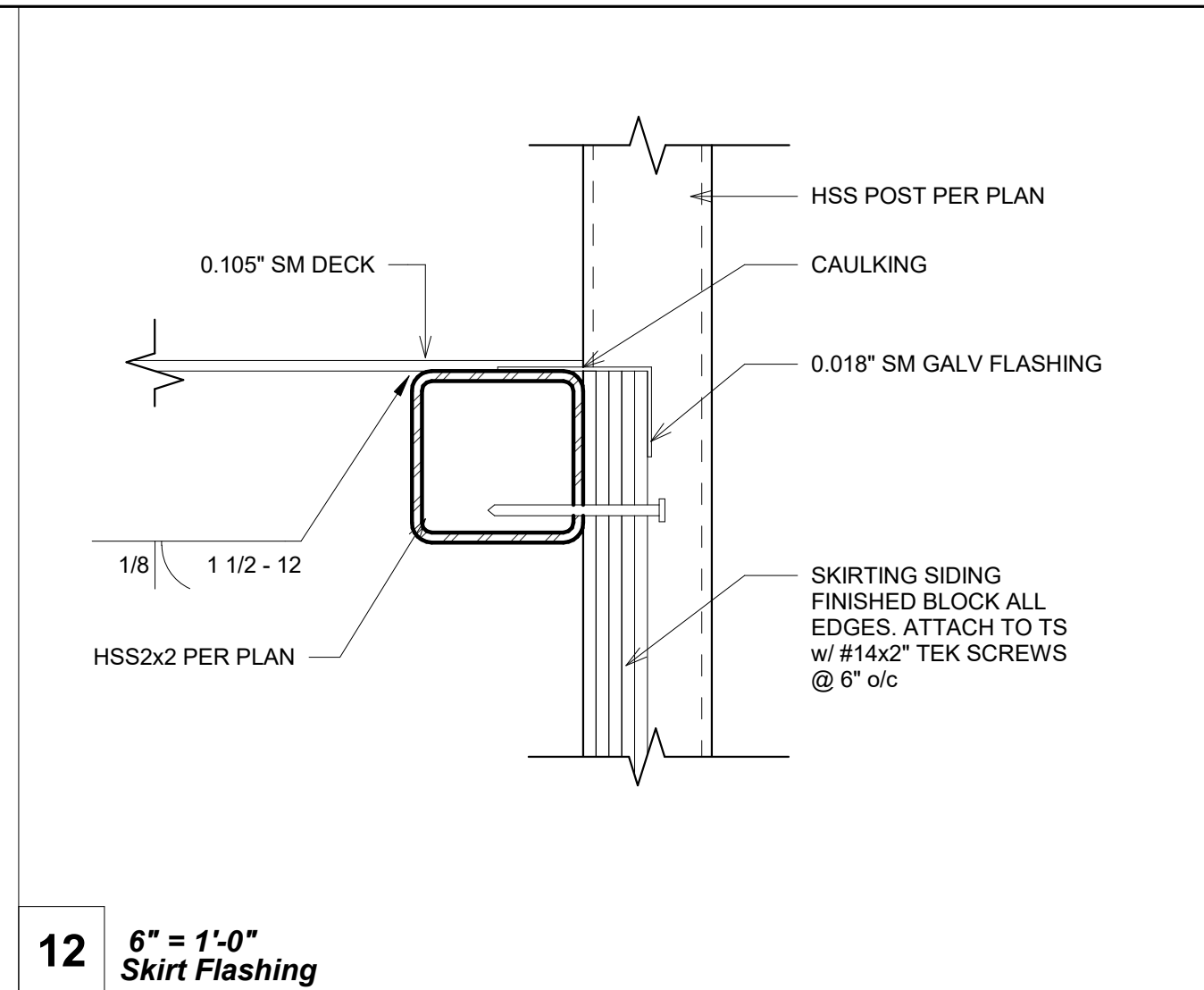
SHEET OF

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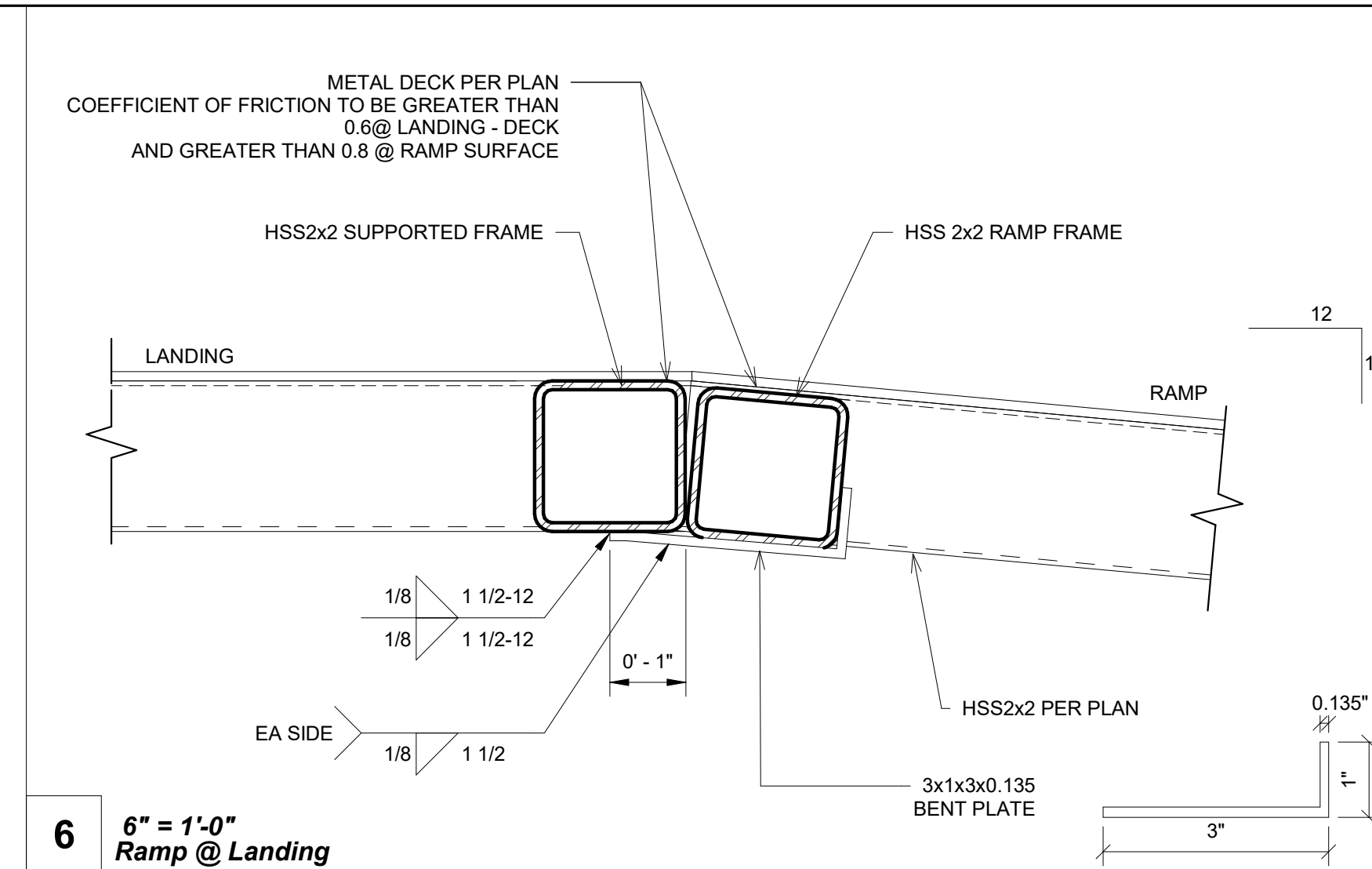
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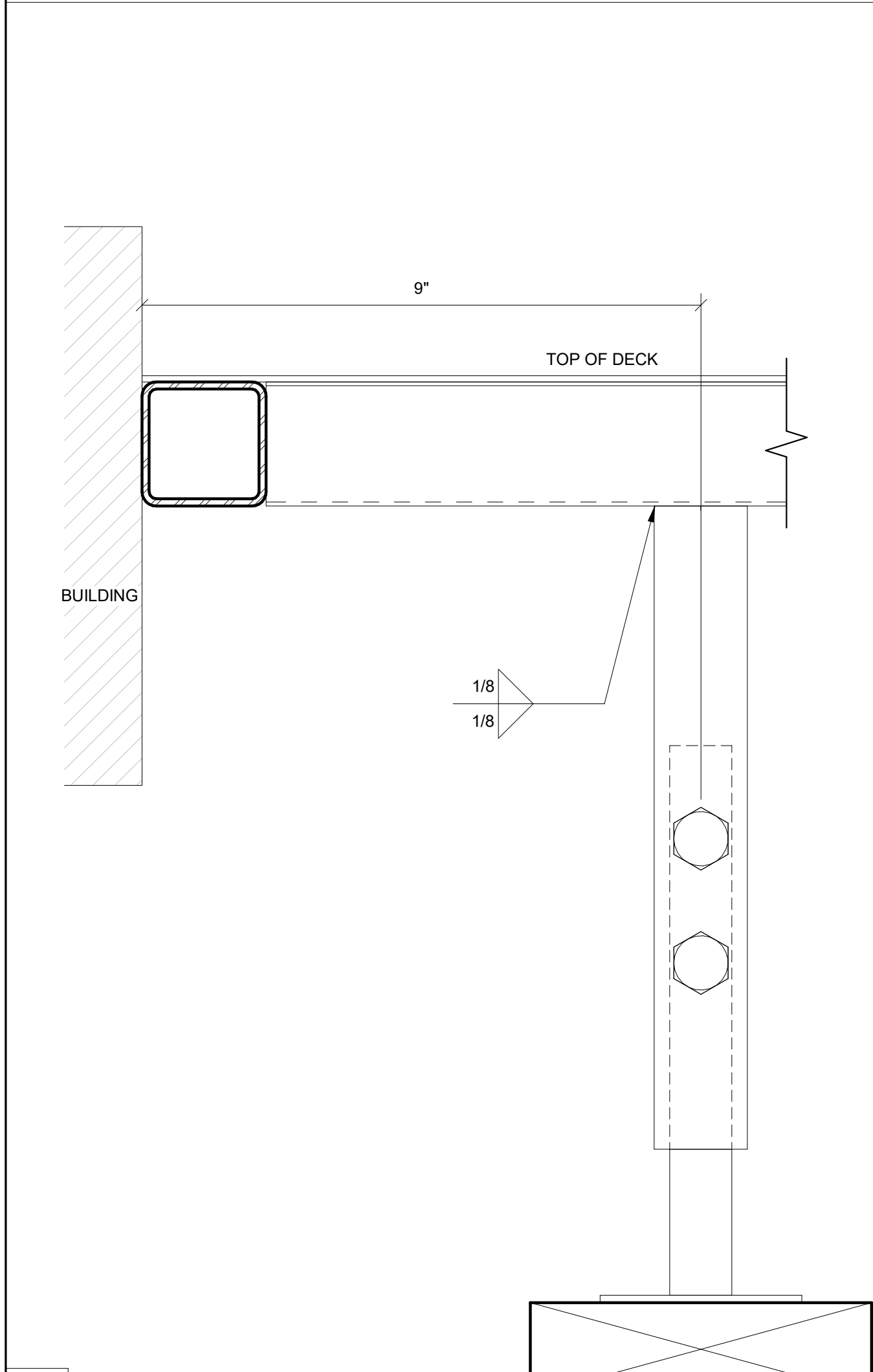
9 6" = 1'-0" Base Plate @ Ramp Toe



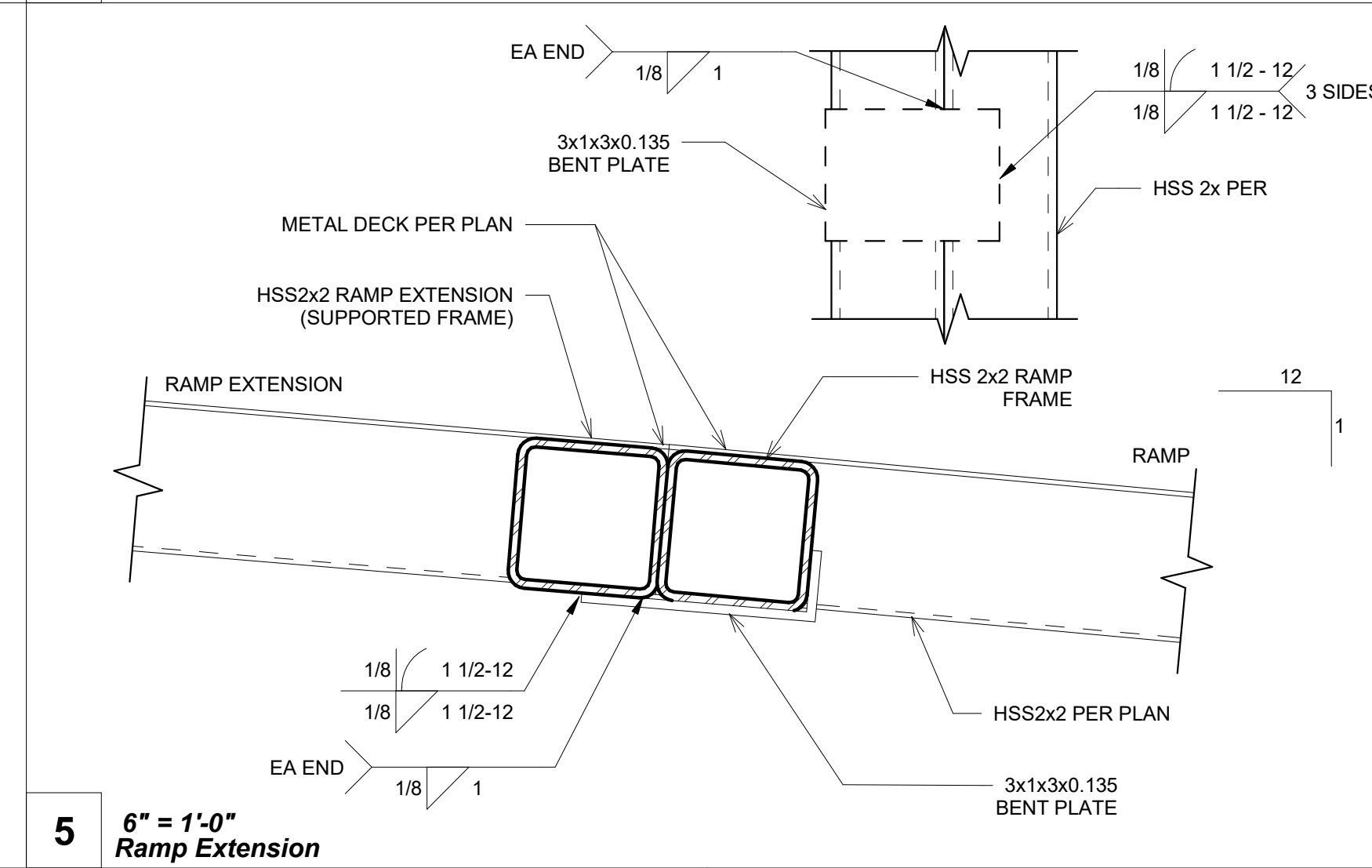
12 6" = 1'-0" Skirt Flashing



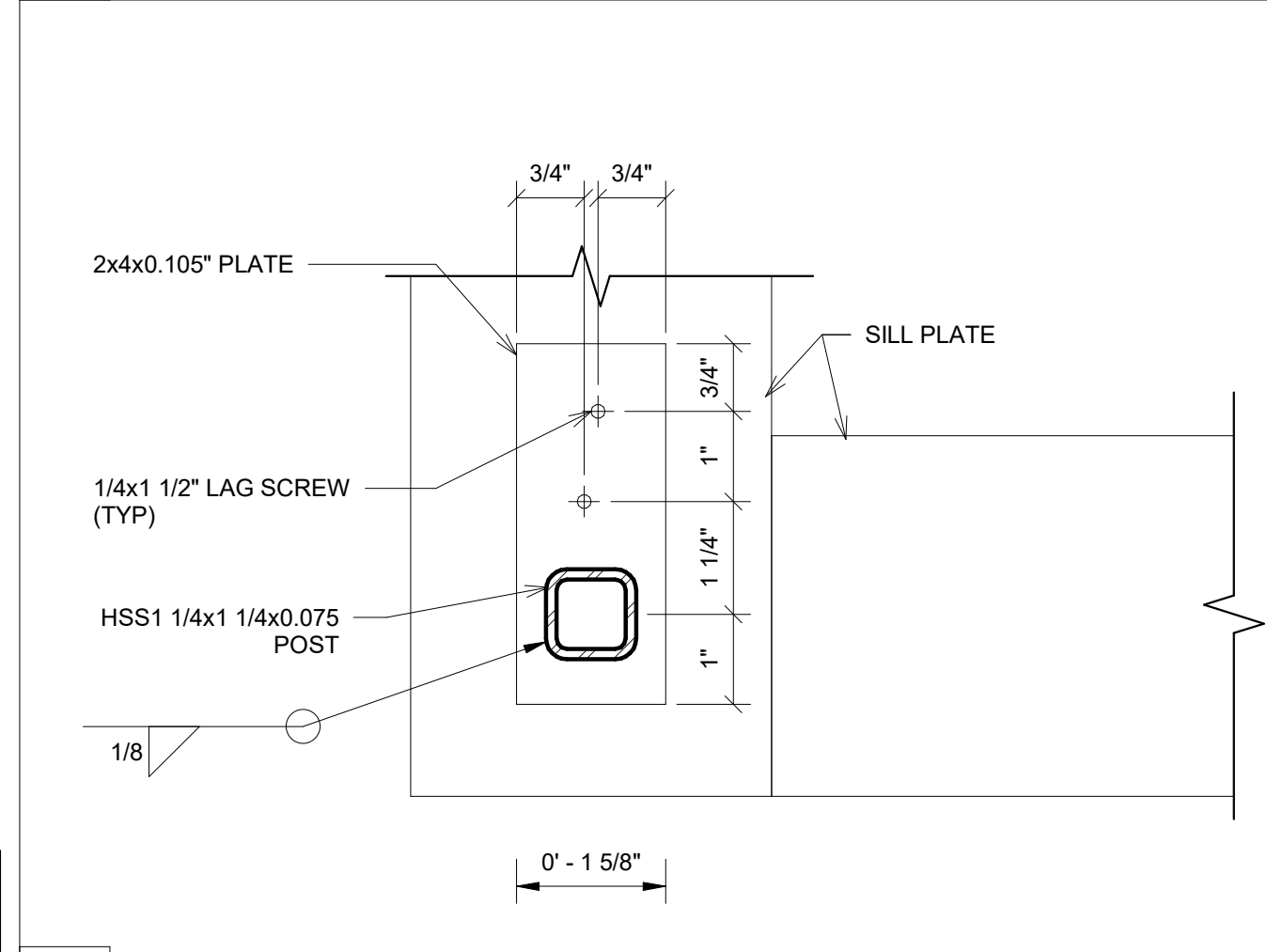
6 6" = 1'-0" Ramp @ Landing



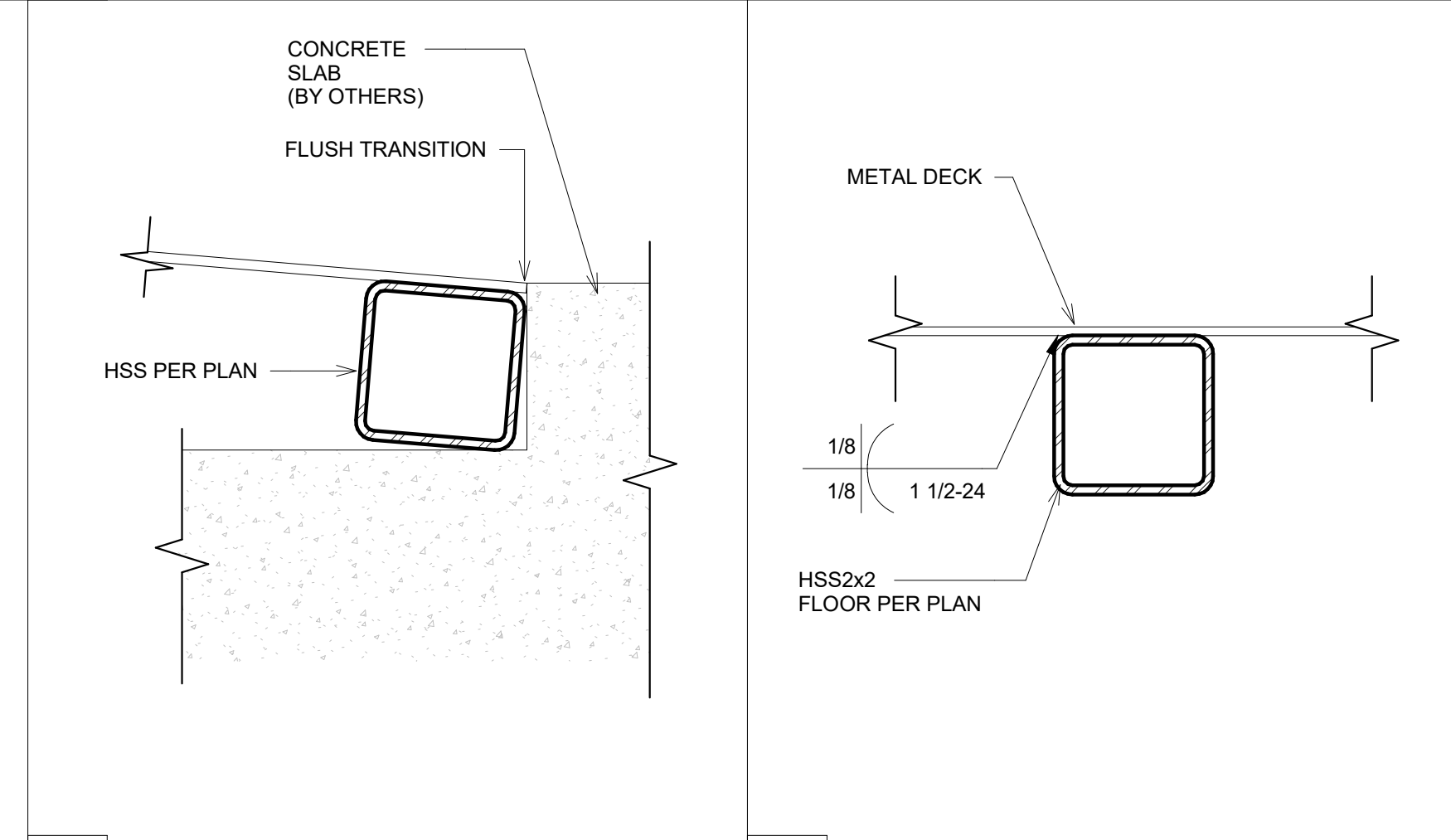
3 6" = 1'-0" Skirt Flashing @ Sill Plate



5 6" = 1'-0" Ramp Extension

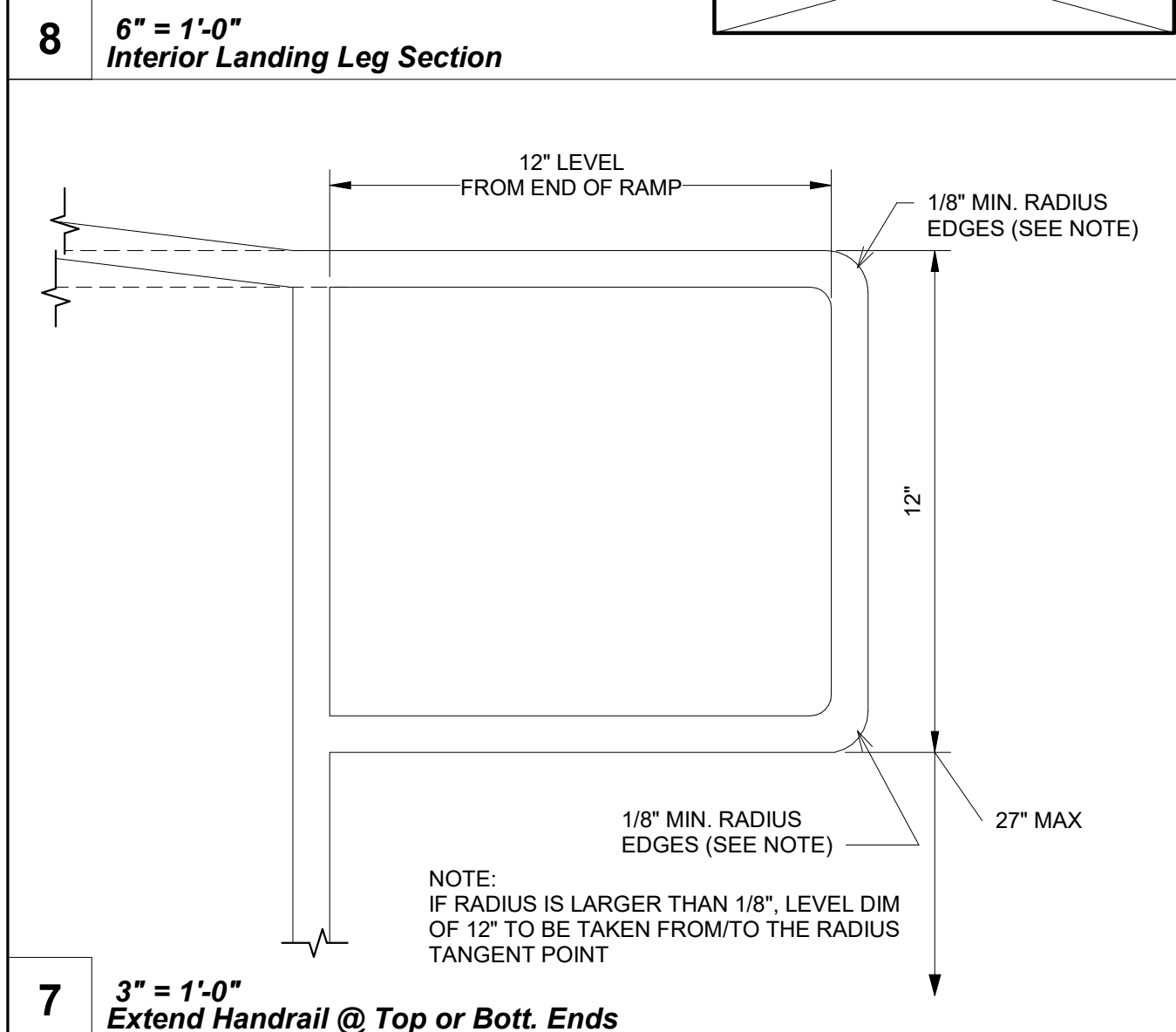


3b 6" = 1'-0" Adjustable Leg Base Plate

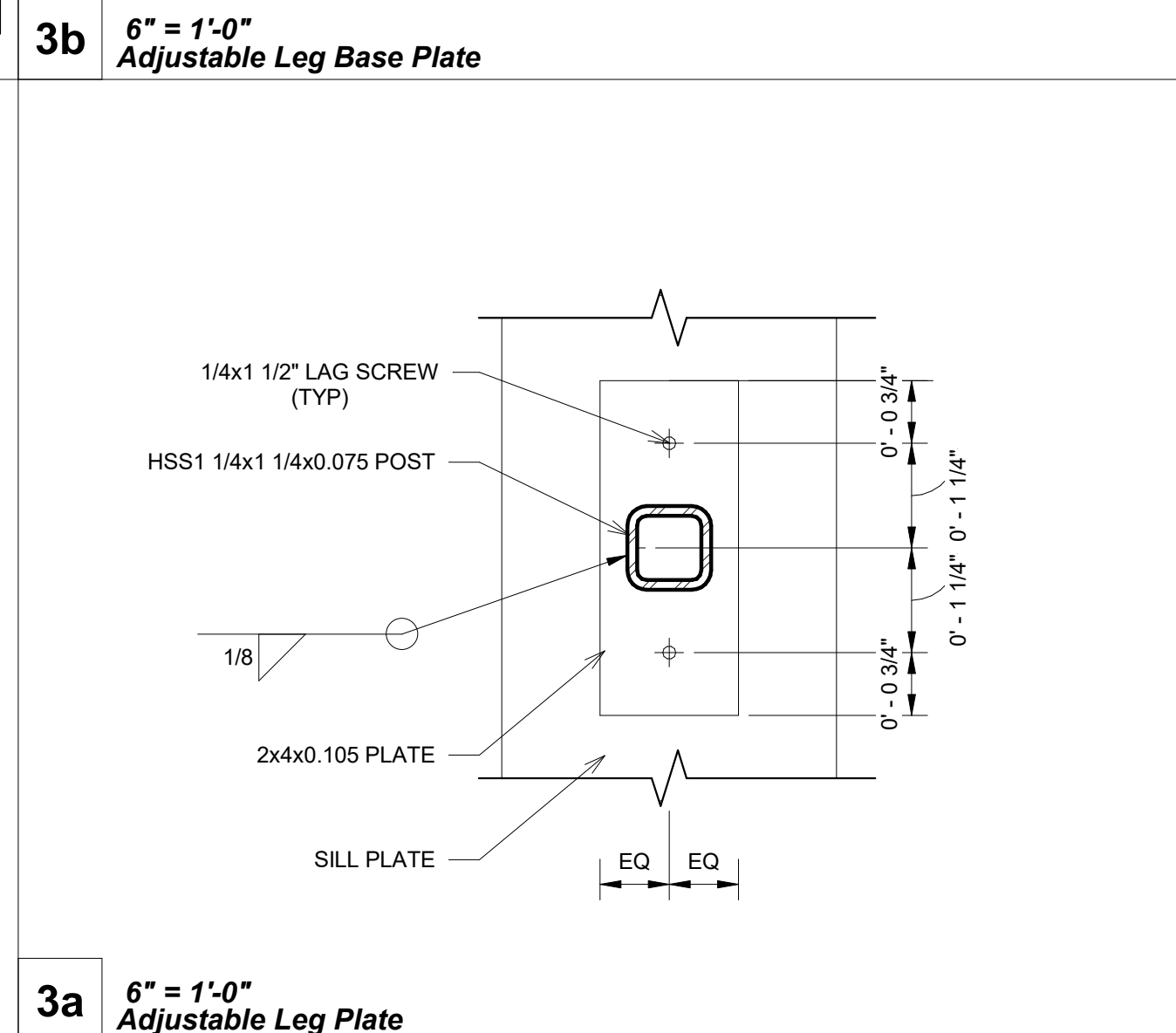


10 6" = 1'-0" Flush Transition @ Bottom of Ramp

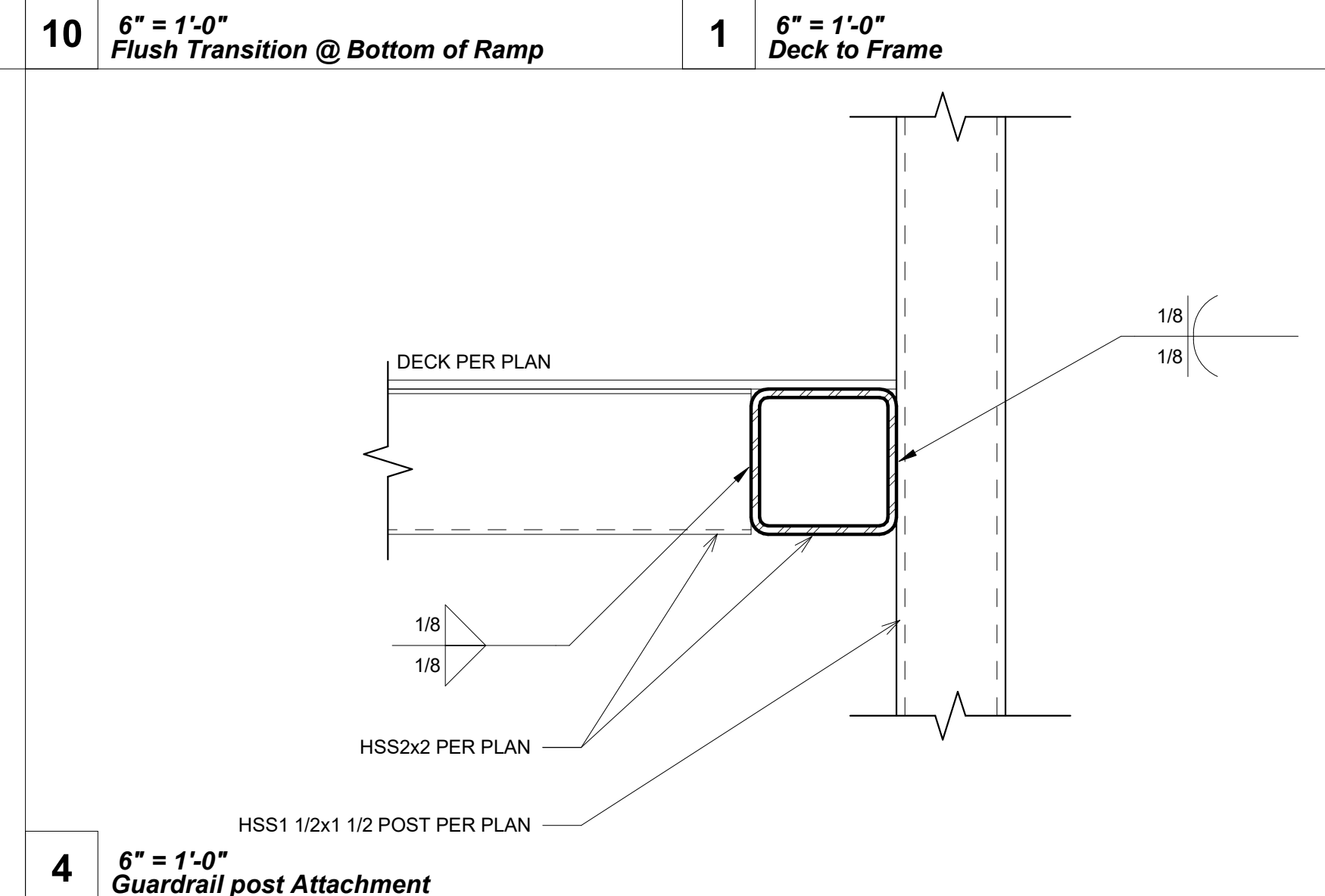
1 6" = 1'-0" Deck to Frame



7 3" = 1'-0" Extend Handrail @ Top or Bott. Ends

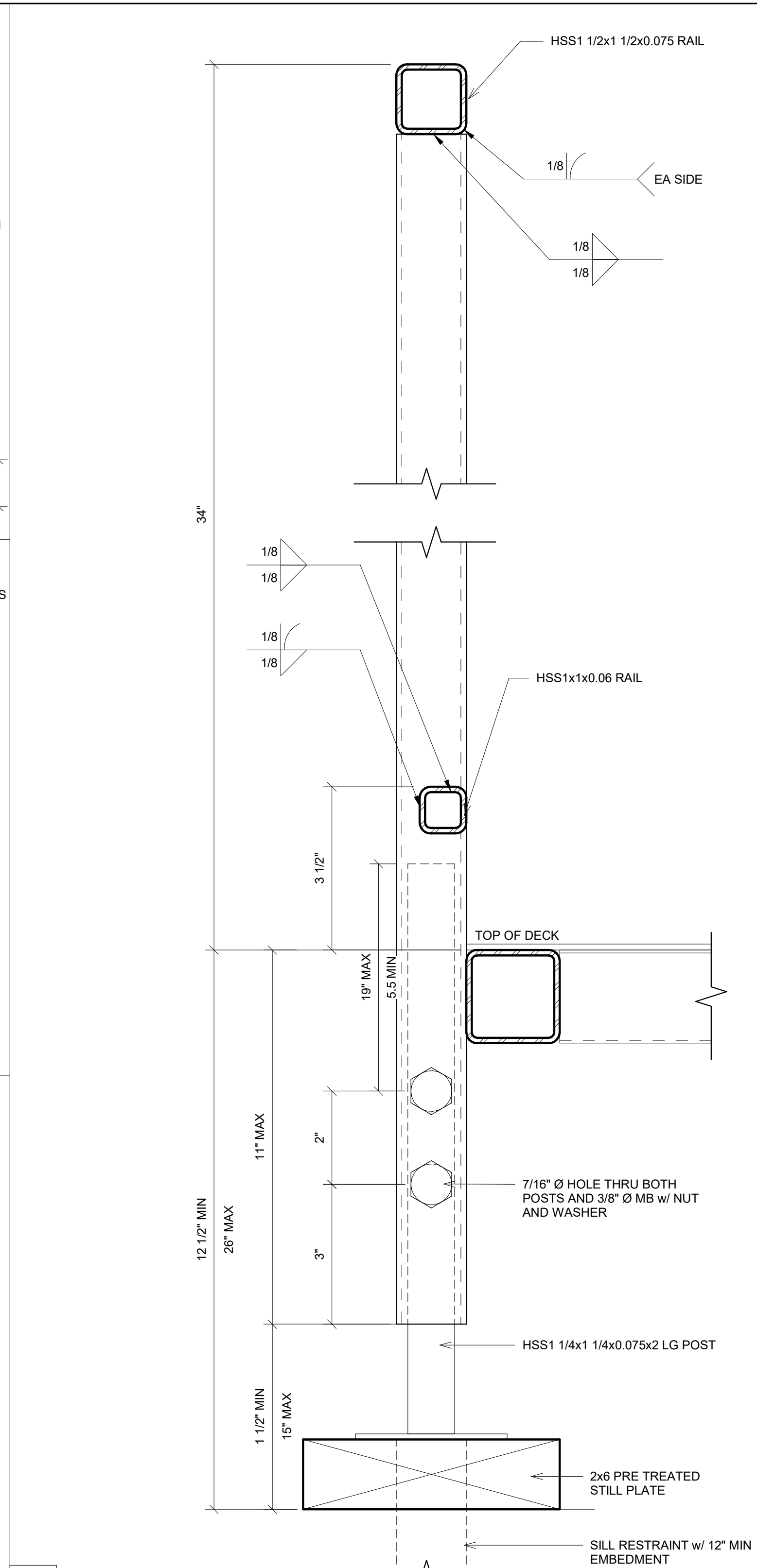


3a 6" = 1'-0" Adjustable Leg Plate

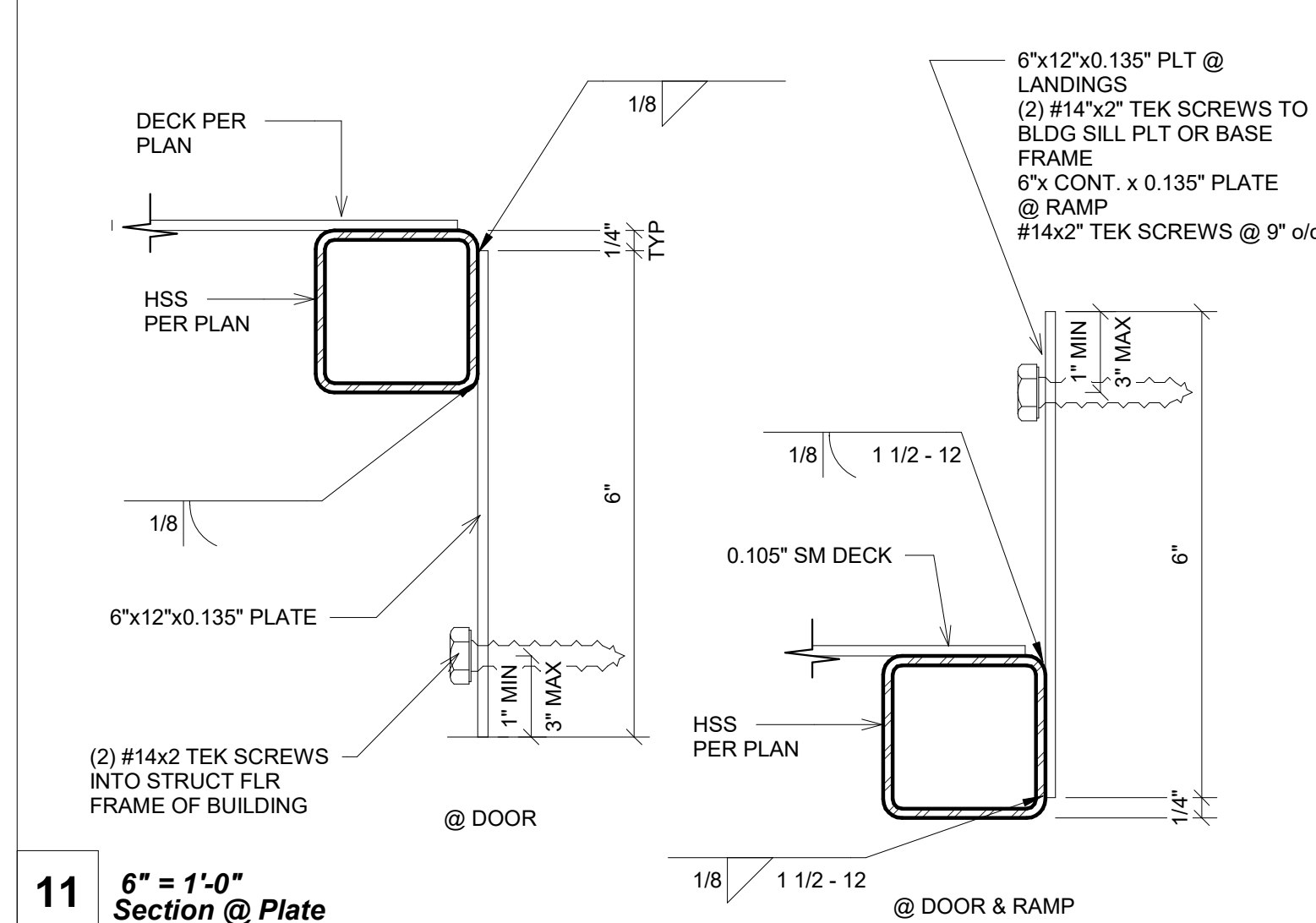


4 6" = 1'-0" Guardrail post Attachment

11 6" = 1'-0" Section @ Plate



2 6" = 1'-0" Adjustable Leg

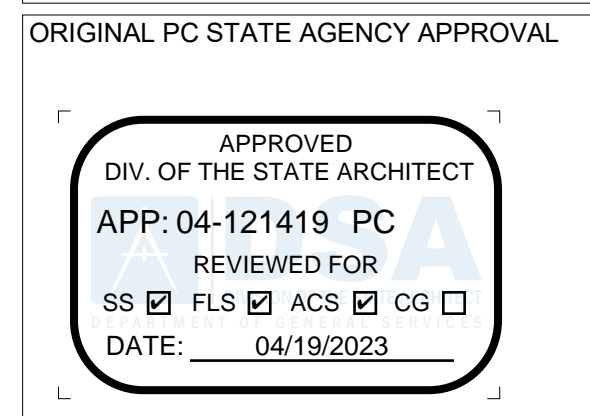


11 6" = 1'-0" Section @ Plate

PROJECT SPECIFIC STATE AGENCY APPROVAL



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Revision Schedule

#	Description	Date
22079		

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE
Ramp Details

PROJECT NUMBER
22079

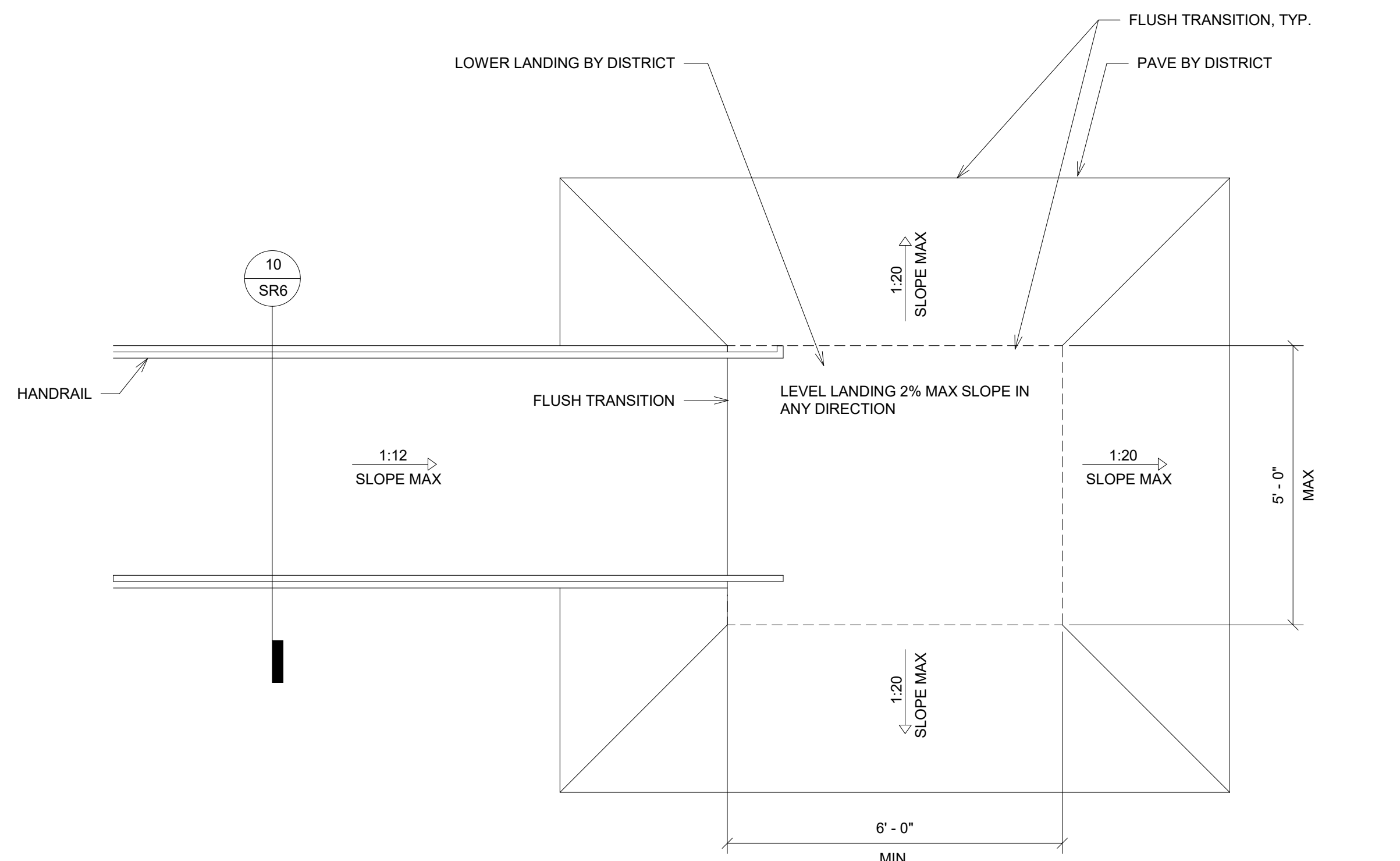
DRAWN BY
SM

CHECKED BY
rMc

DATE
12/23/2022

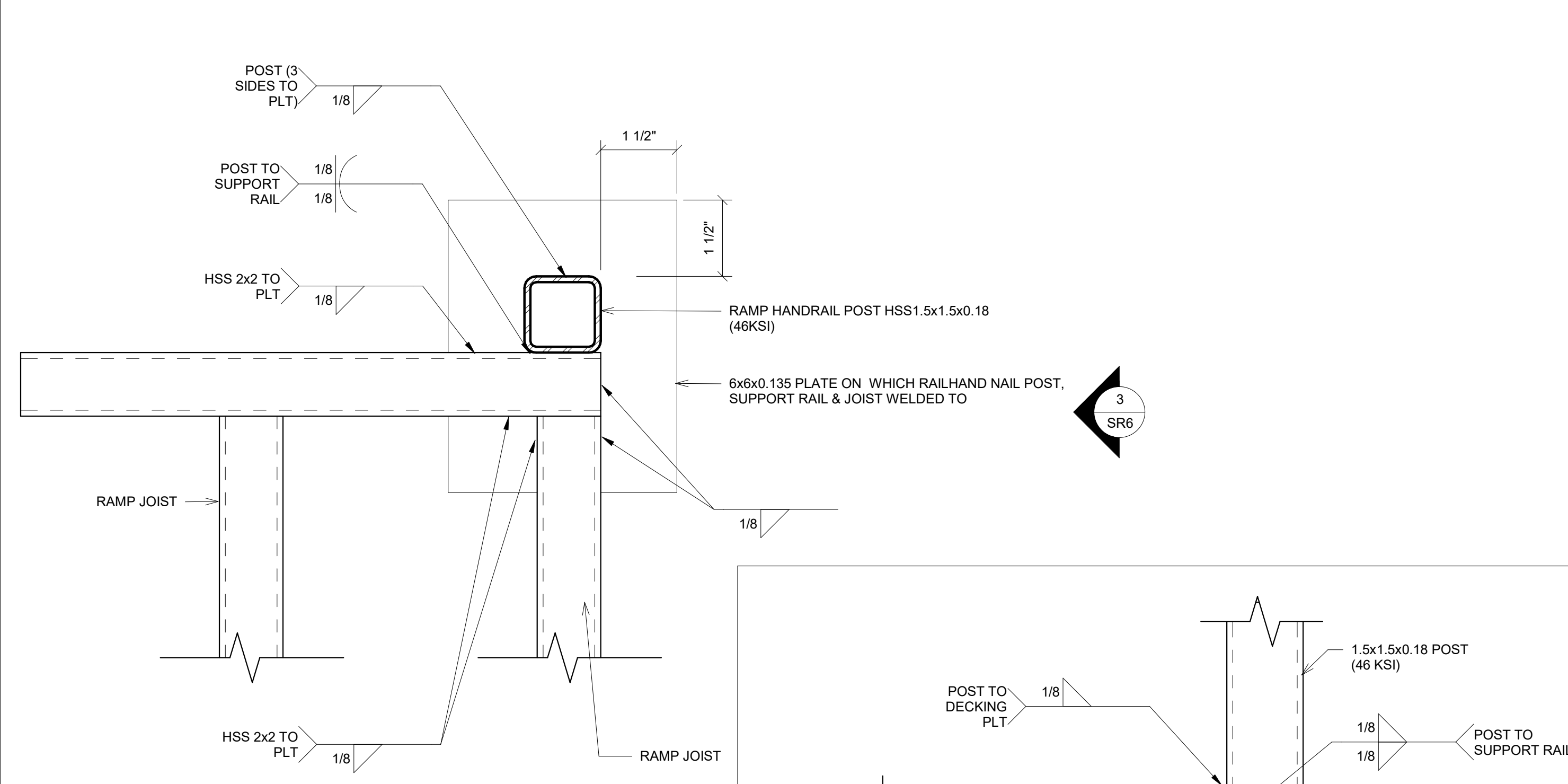
SHEET NO.
SR5

SHEET OF

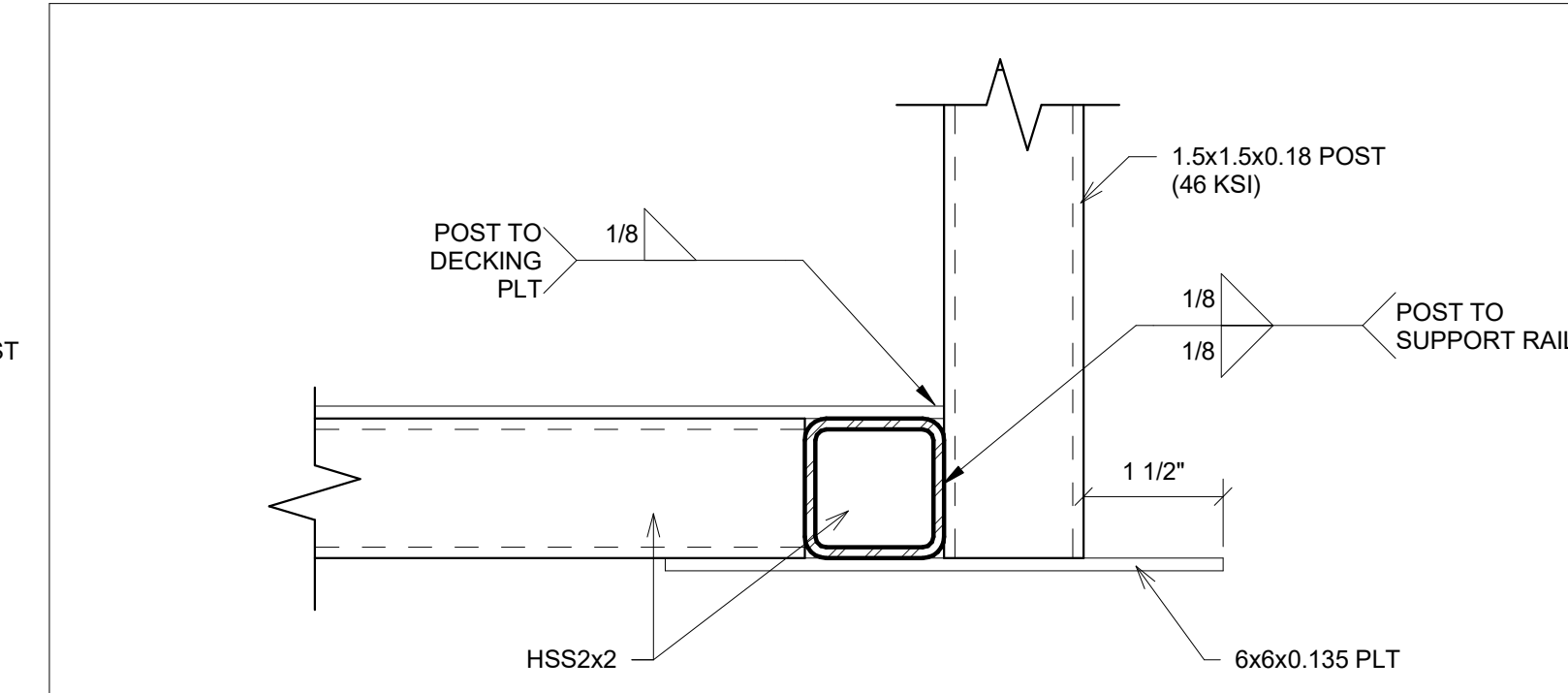


NOTE:
 1. 1:20 TRANSITION OFF OF LOWER LANDING REQUIRES NO HANDRAIL.
 2. TRANSITIONS EXCEEDING 1:20 BUT NOT EXCEED 1:12 REQUIRE REMOVAL OF 12\"/>

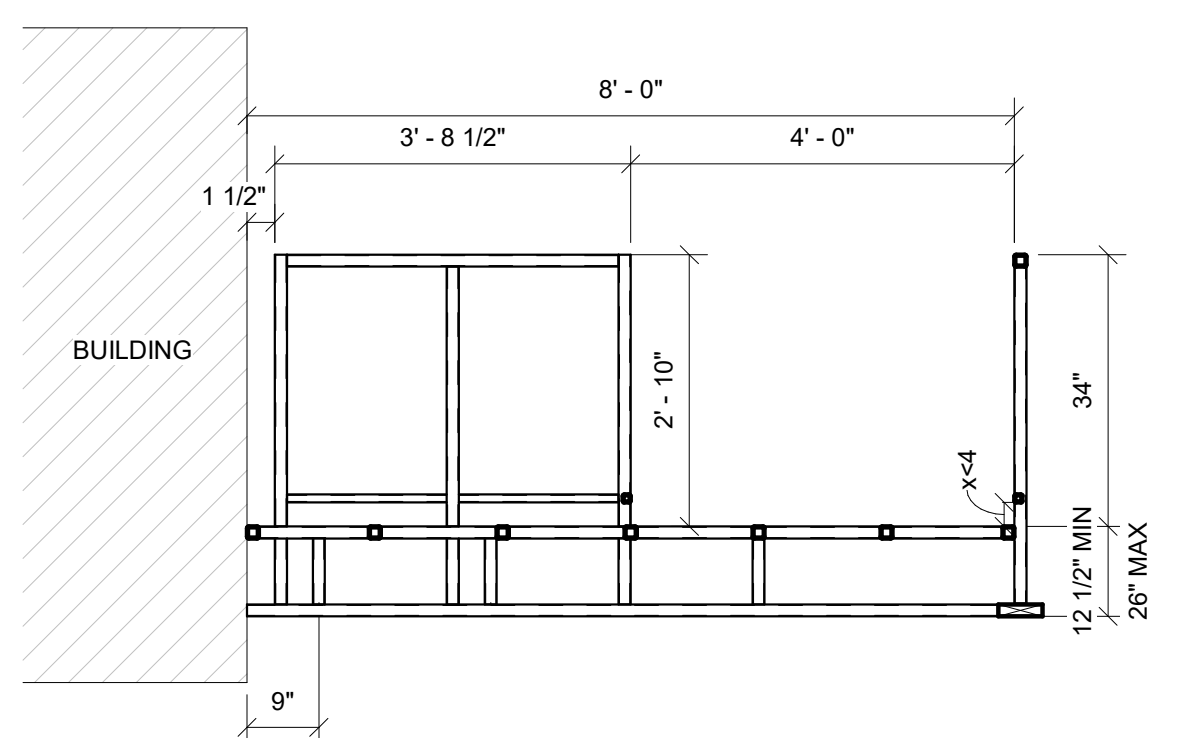
7 1/2" = 1'-0" Ramp Transition



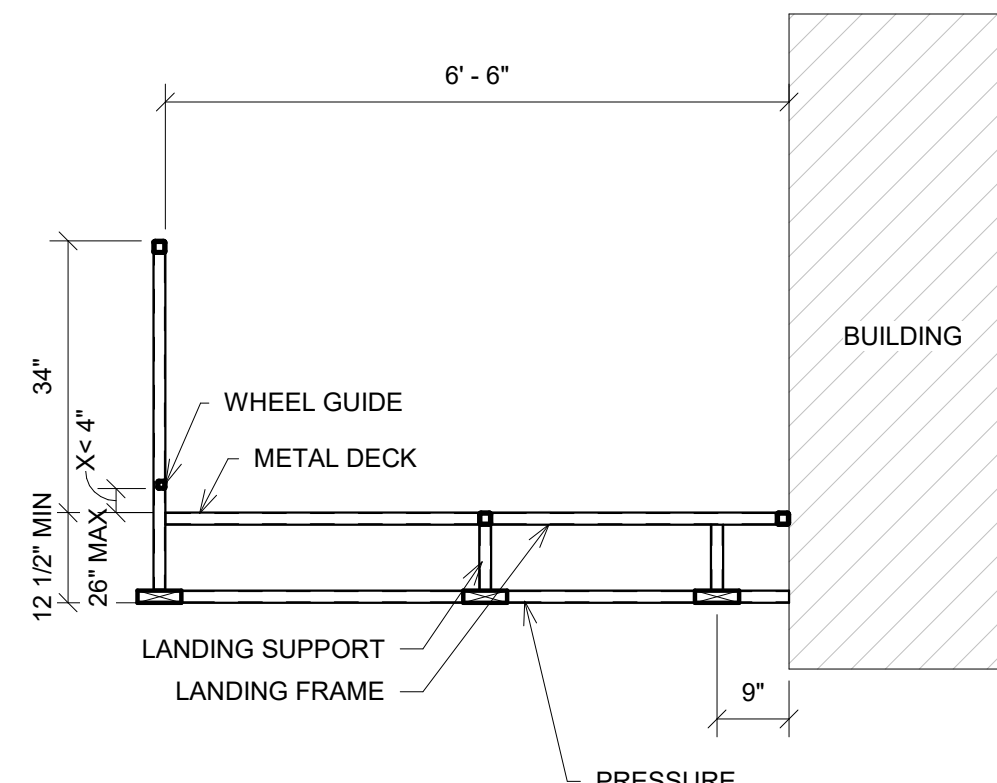
2 6" = 1'-0" Base Plt @ Ramp Toe For Zero Transition



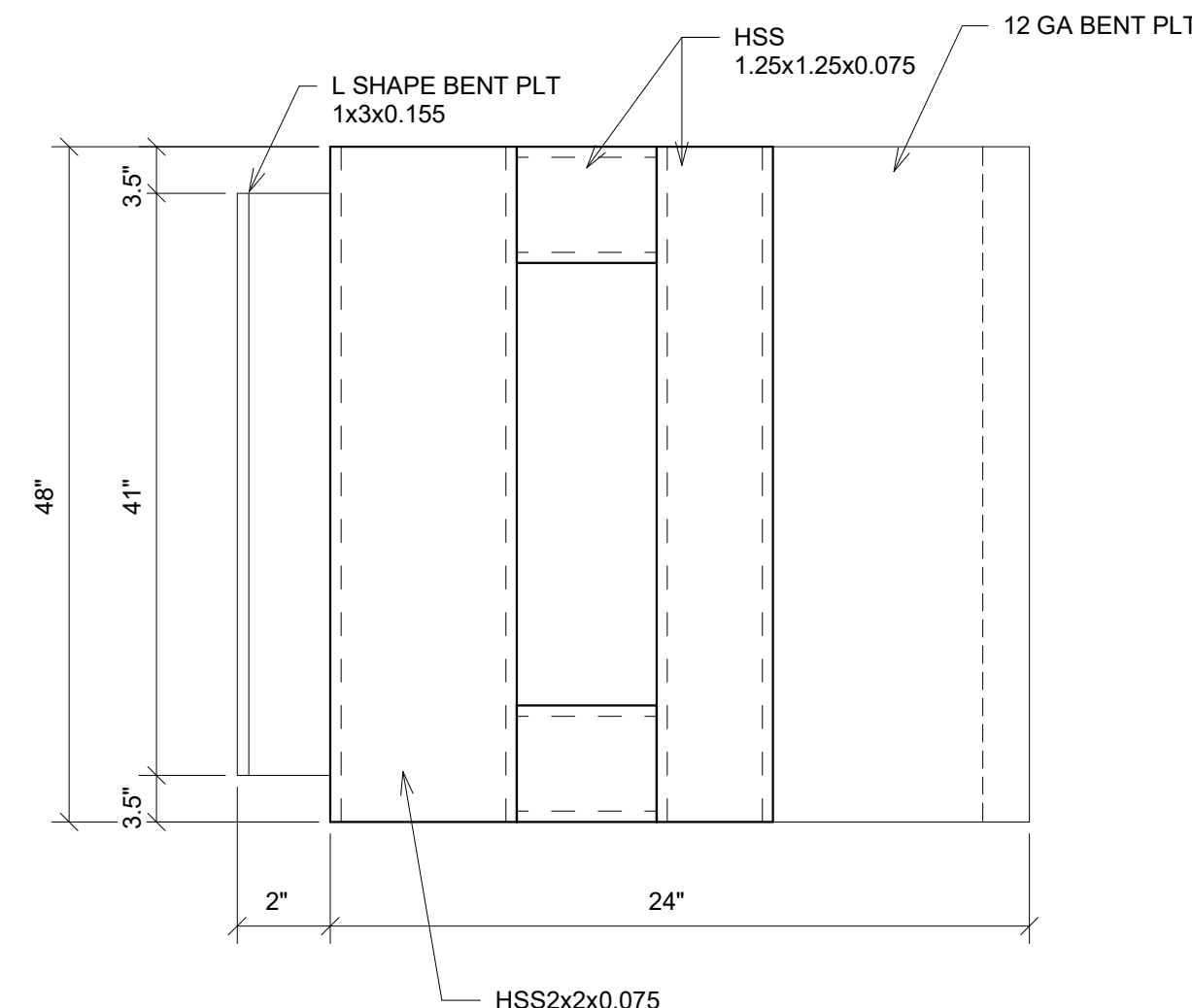
3 6" = 1'-0" Base Plt @ Ramp Toe Low Zero Side View



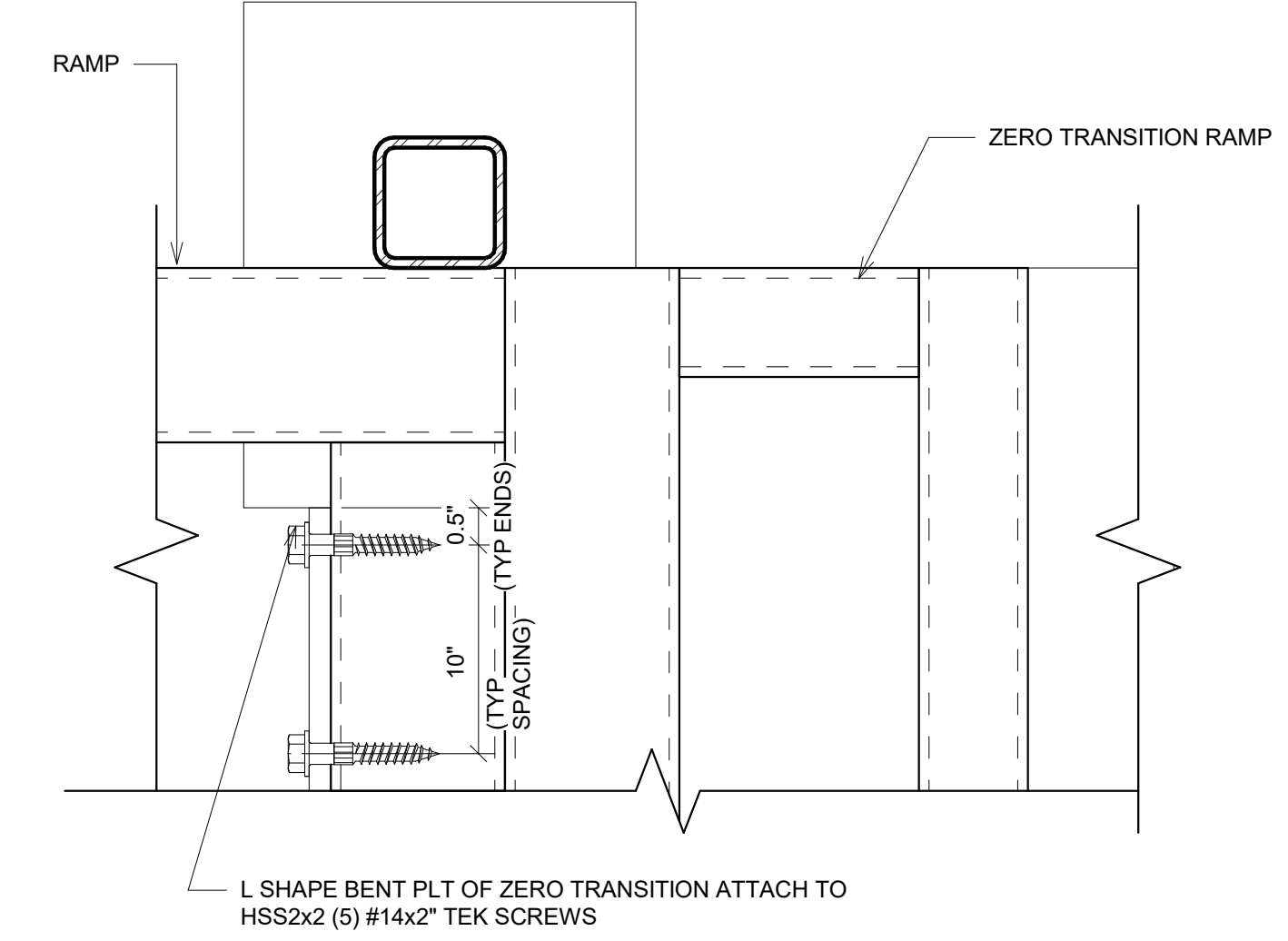
8 1/2" = 1'-0" Section @ Landing



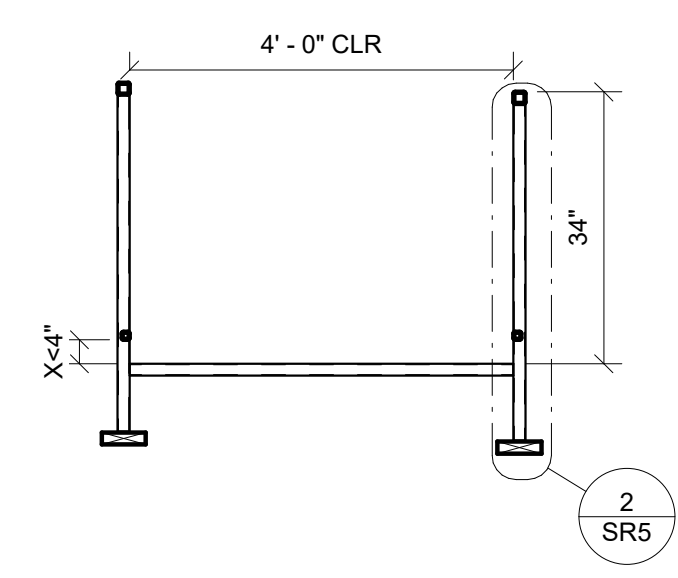
9 1/2" = 1'-0" Section @ Landing



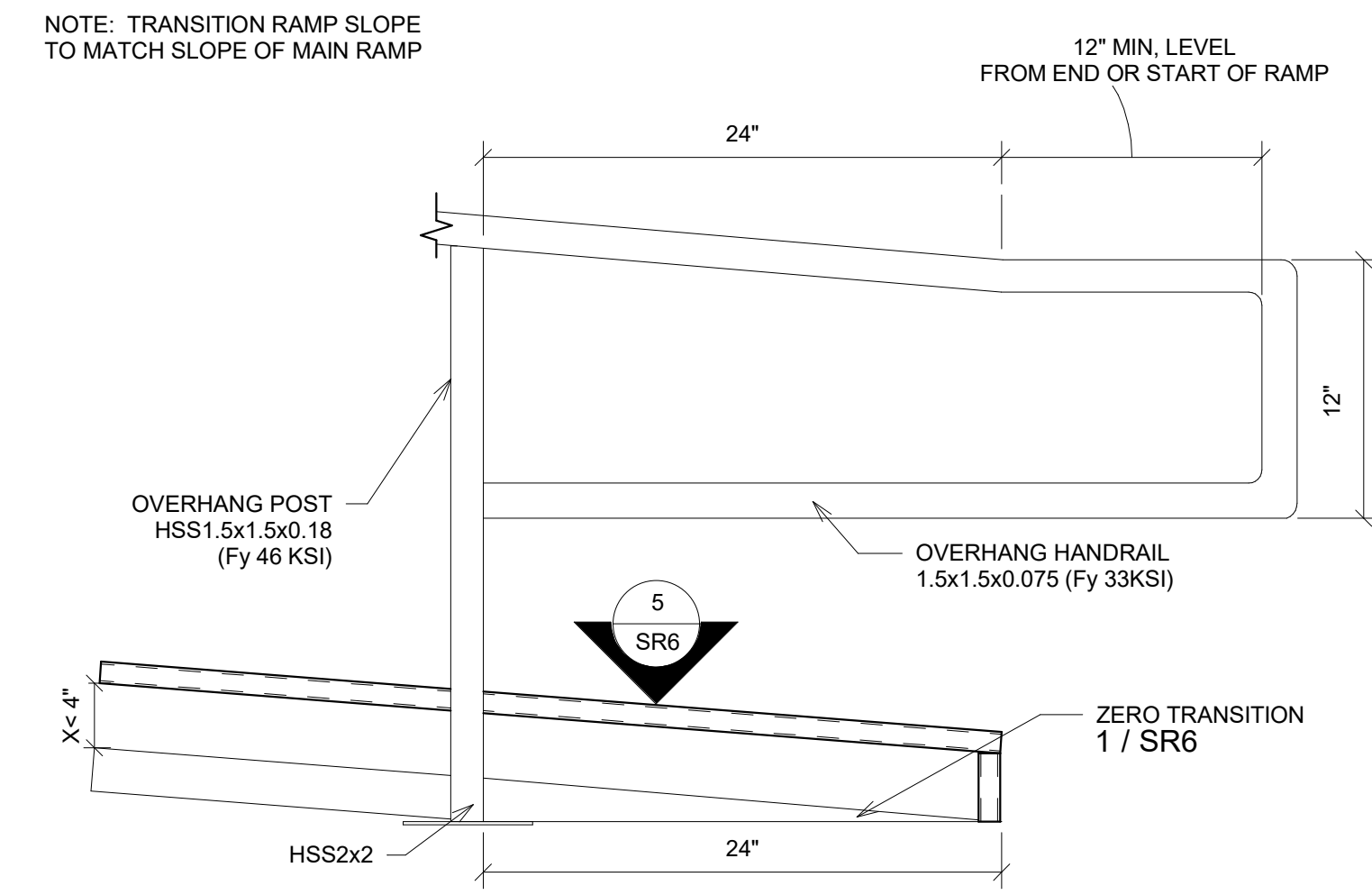
4 6" = 1'-0" Top View Ramp Zero Transition



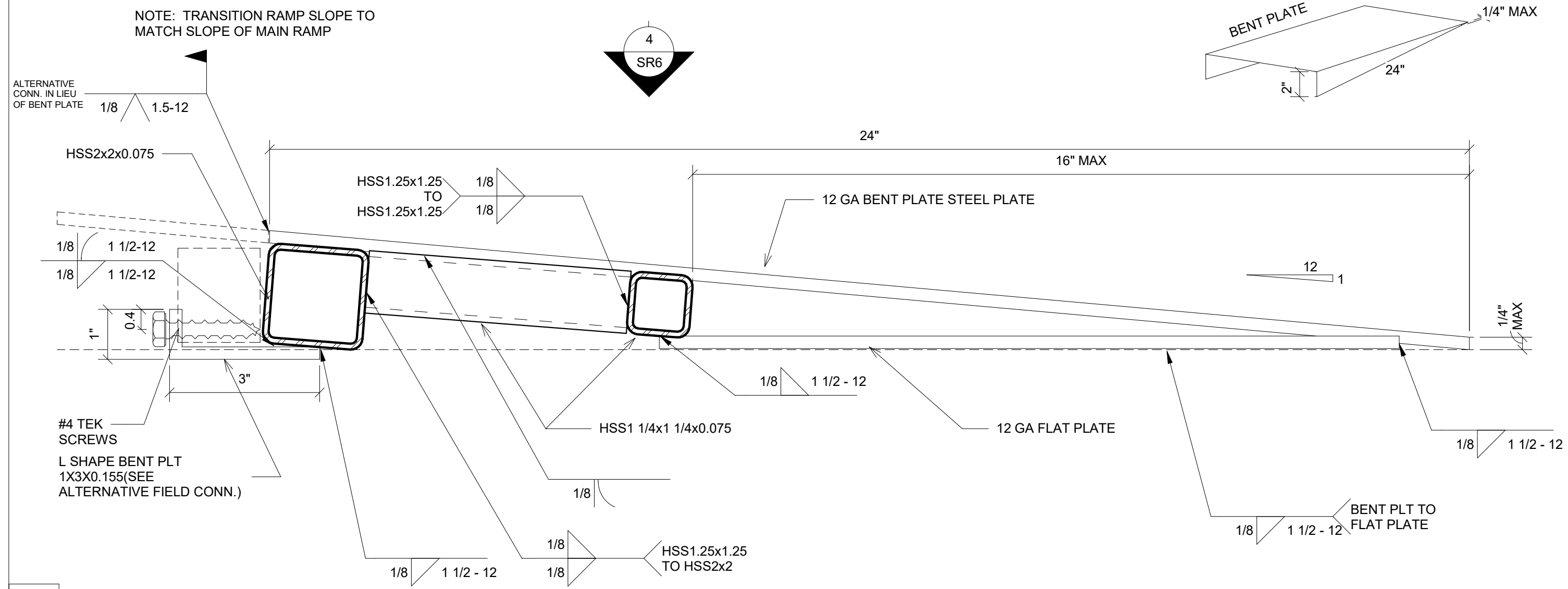
5 6" = 1'-0" Zero Transition Ramp Connection



10 1/2" = 1'-0" Section @ Ramp



6 1 1/2" = 1'-0" Extend Handrail @ Bottom End For Zero Transition Ramp

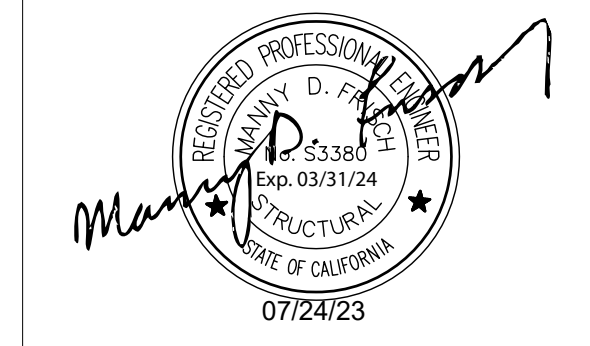


1 6" = 1'-0" Zero Transition Ramp

PROJECT SPECIFIC STATE AGENCY APPROVAL



PROFESSIONAL STAMP

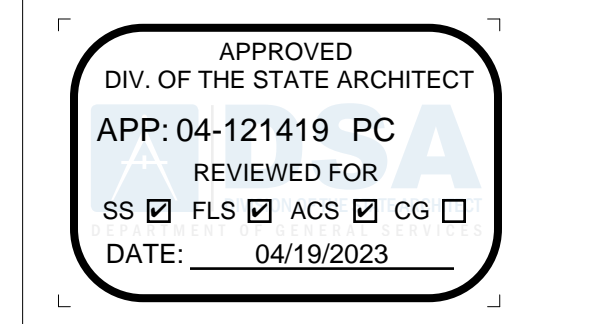


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ORIGINAL PC STATE AGENCY APPROVAL



Revision Schedule

#	Description	Date
22079		

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE
Ramp Details

PROJECT NUMBER
22079

DRAWN BY
SM

CHECKED BY
rMc

DATE
12/23/2022

SHEET NO.
SR6

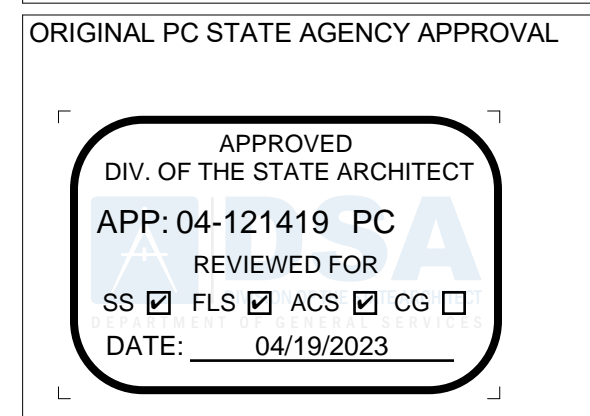
SHEET OF

6/15/2021 7:29:30 PM M:\2020\20093 - Class Leasing, 24x40 - 120x40 2022 CBC Updates\REV\RS\H\20093 - Aries, Ramps and Stairs PC.rvt



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CLIENT
Class Leasing
 1320 W. Oleander Ave, Perris CA 92571-7408
 VOICE (951) 943-1908/Fax (951) 943-5768



Revision Schedule

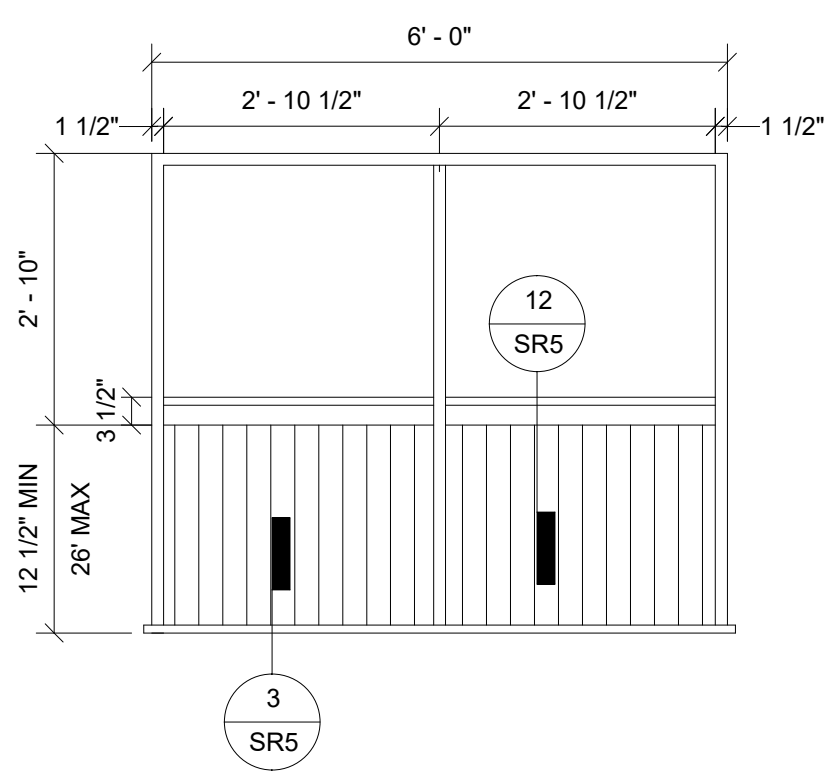
#	Description	Date
22079		

PRE-CHECK (PC) DOCUMENT
 Code: 2022 CBC
 A separate project application for construction is required

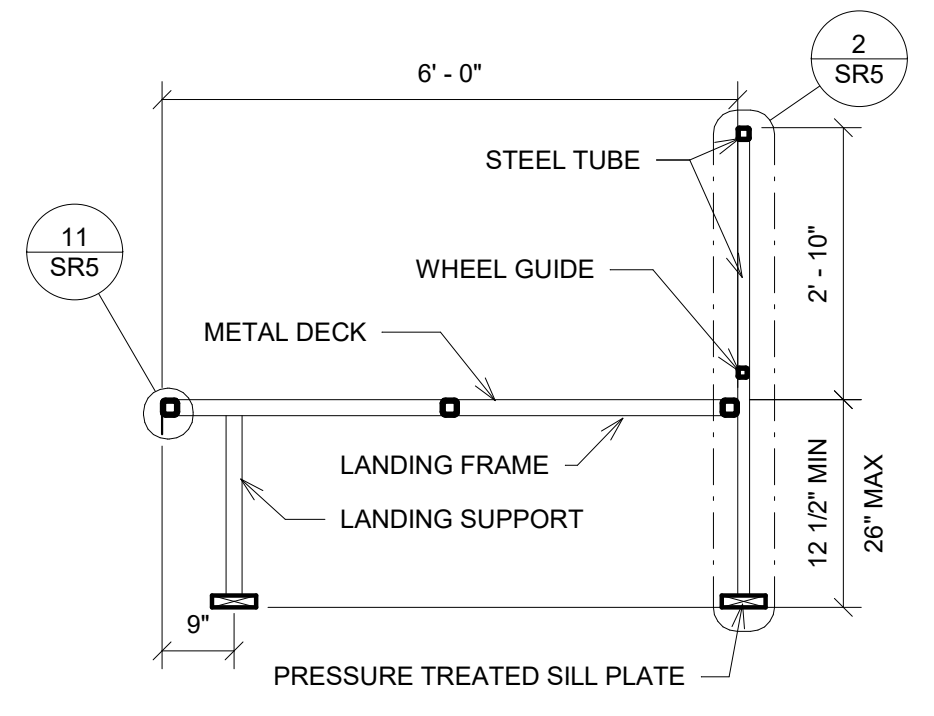
PROJECT TITLE
RAMPS PC
 CLASS LEASING
 PC#04-121419

SHEET TITLE
Stair Conn

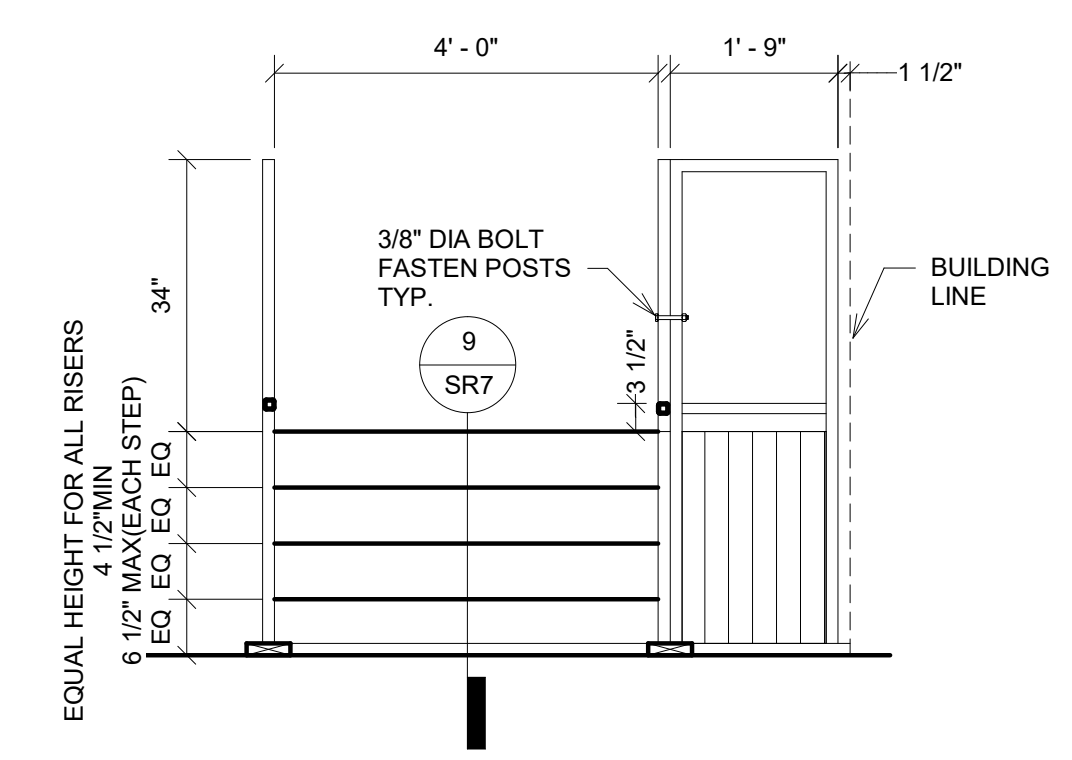
PROJECT NUMBER
 22079
 DRAWN BY
 rMc
 CHECKED BY
 BR
 DATE
 12/23/2022
 SHEET NO.
SR7



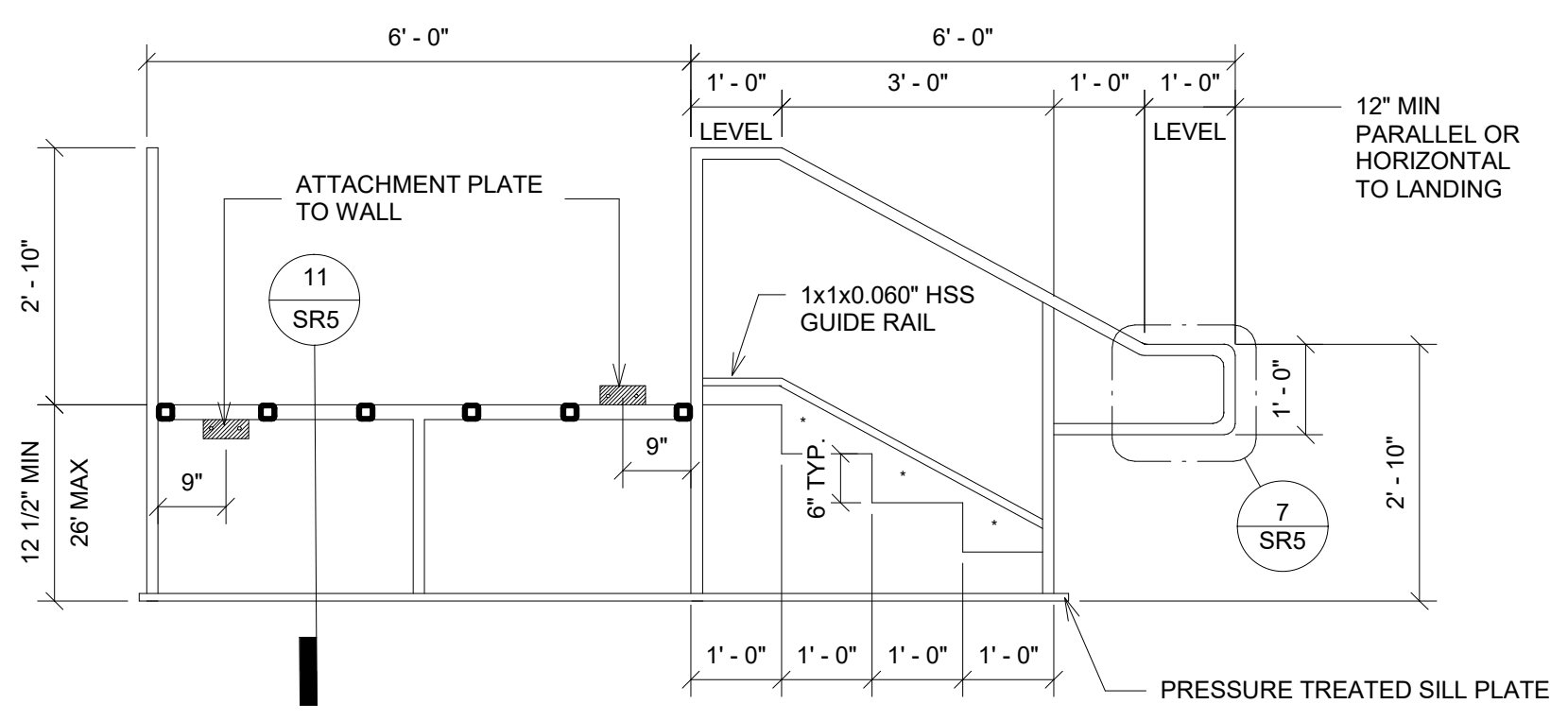
1 1/2" = 1'-0"
LANDING ELEVATION VIEW



2 1/2" = 1'-0"
LANDING SECTION

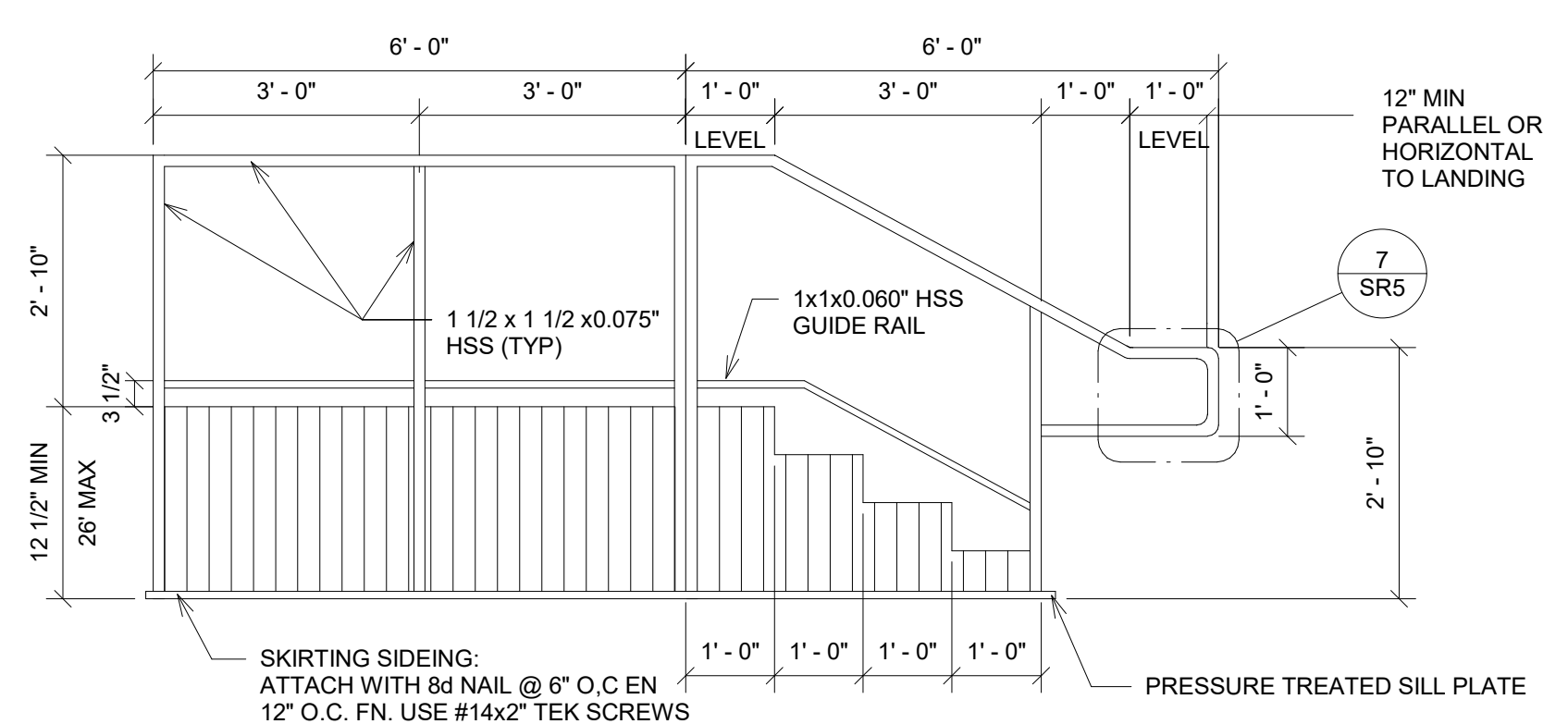


6 1/2" = 1'-0"
STEPS ELEVATION

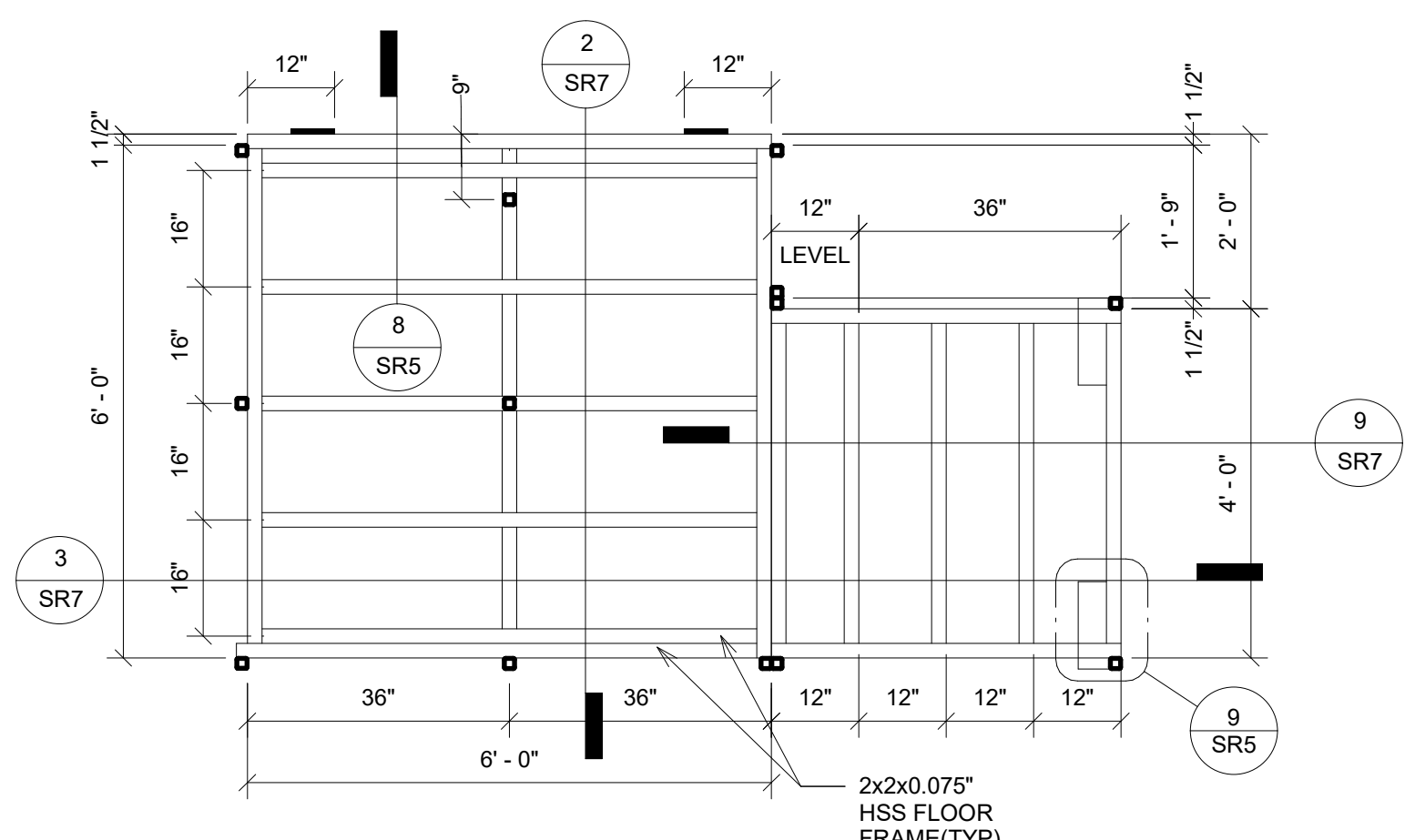


*THE TRIANGULAR OPENING AT THE OPEN SIDES OF A STAIR FORMED BY THE RISER, TREAD, AND BOTTOM RAIL SHALL NOT ALLOW PASSAGE OF A SPHERE 6 INCHES IN DIAMETER PER CBC 1015.4(TYP)

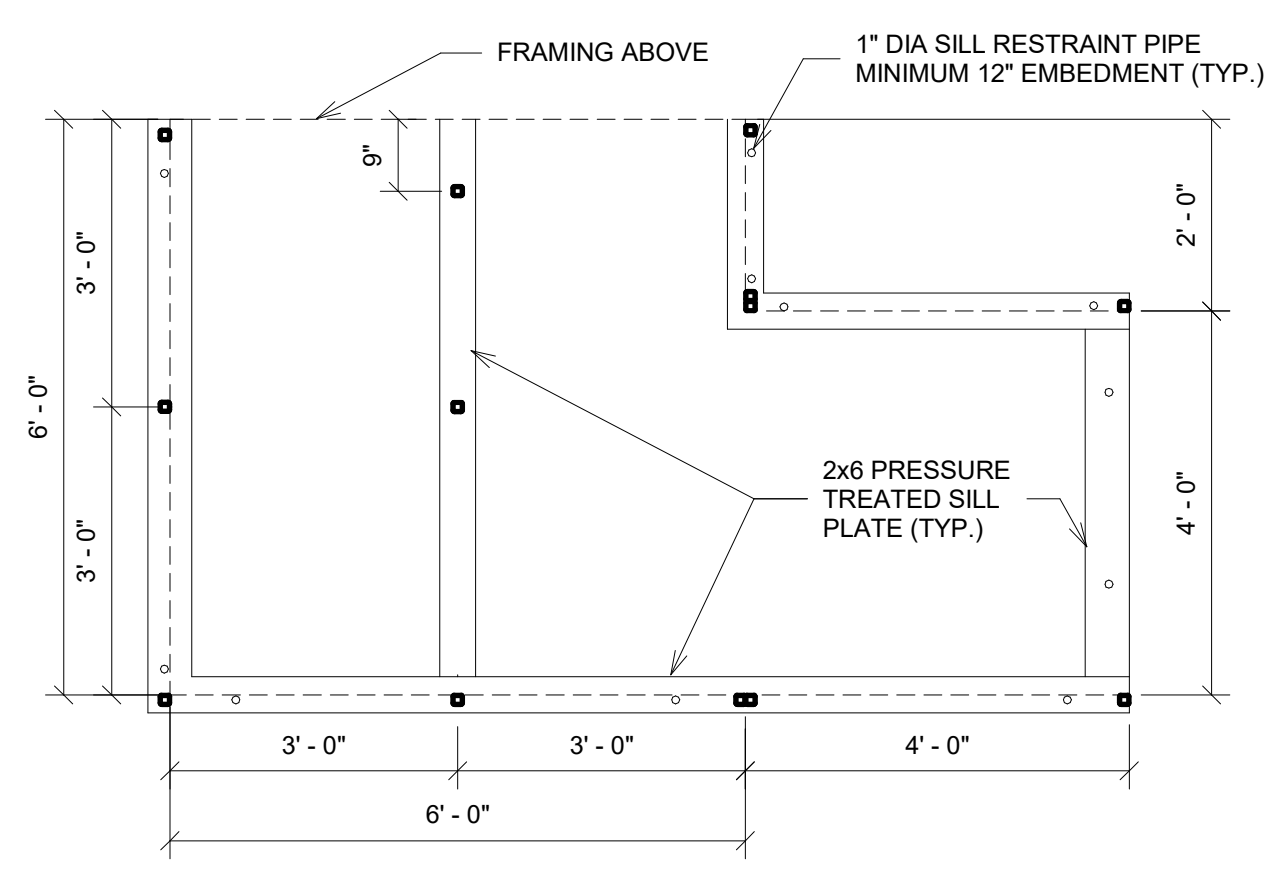
3 1/2" = 1'-0"
STEP AND LANDING SECTION



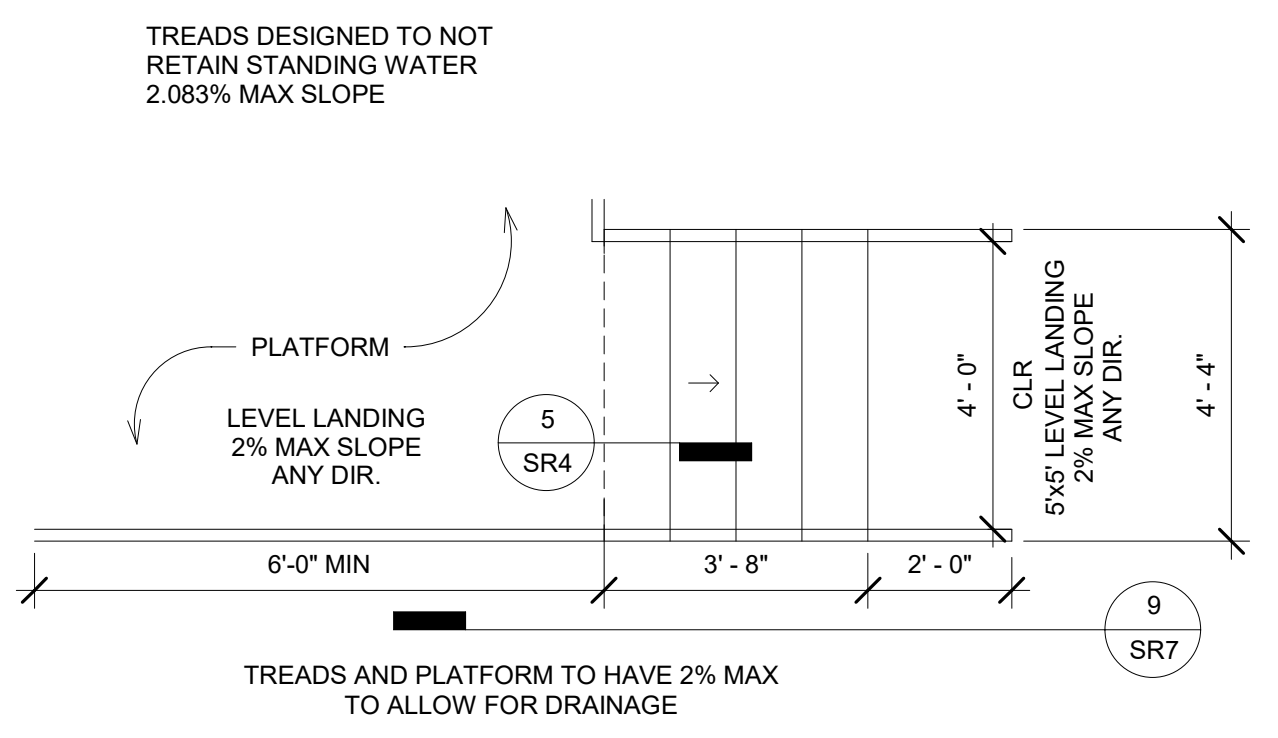
4 1/2" = 1'-0"
STEPS AND LANDING SECTION



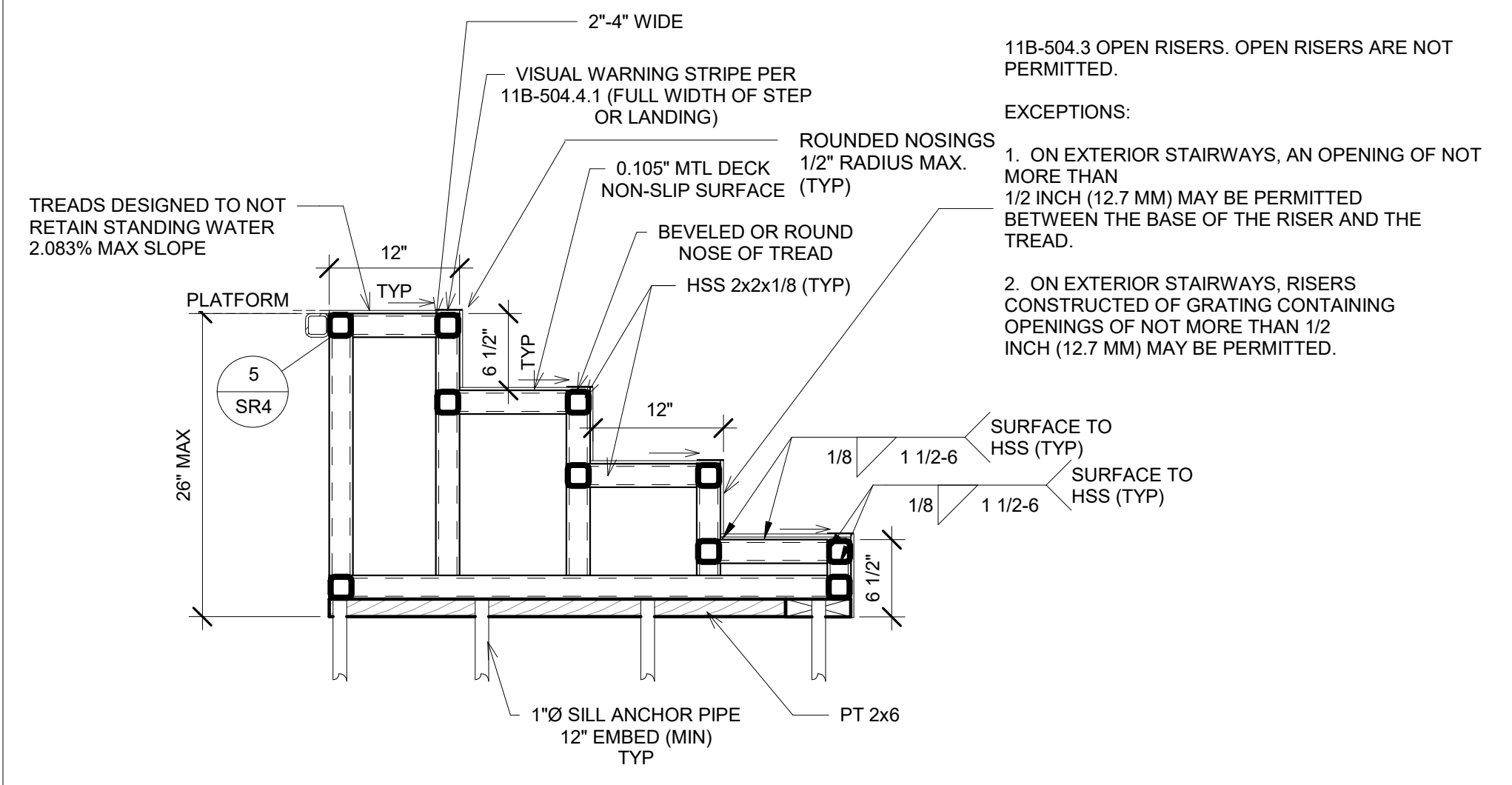
5 1/2" = 1'-0"
STEPS/LANDING FRAMING PLAN



7 1/2" = 1'-0"
SILL PLAN



8 3/8" = 1'-0"
Stair



9 1" = 1'-0"
Stair Elev

6/15/2021 7:29:30 PM M:\2020\20093 - Class Leasing, 24x40 - 120x40 2022 CBC Updates\REV\TISH\20093 - Aries, Ramps and Stairs PC.rvt