SERIAL NUMBERS:
26-101-012

American Modular Systems

STOCKPILE
(1) 12' x 40' RESTROOM BUILDING

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) - PART 1, TITLE 24, CCR)
- 2022 CALIFORNIA BUILDING CODE (CBC), VOLUME 1 & 2 - (PART 2, TITLE 24 CCR) BASED ON THE 2021 INTERNATIONAL BUILDING CODE WITH 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA ELECTRICAL CODE (CEC) - (PART 3, TITLE 24, CCR) BASED ON THE 2020 NATIONAL ELECTRIC CODE WITH 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA MECHANICAL CODE (CMC) - (PART 4, TITLE 24, CCR) BASED ON THE 2021 IAPMO UNIFORM MECHANICAL CODE WITH 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA PLUMBING CODE (CPC) - (PART 5, TITLE 24, CCR) BASED ON THE 2021 IAPMO UNIFORM PLUMBING CODE WITH 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA ENERGY CODE (CEC) - (PART 6, TITLE 24, CCR)
- 2022 CALIFORNIA FIRE CODE (CFC) - (PART 9, TITLE 24, CCR) BASED ON THE 2021 INTERNATIONAL FIRE CODE WITH 2022 CALIFORNIA AMENDMENTS
- 2022 CALIFORNIA GREEN BUILDING CODE (CGC) - (PART 11, TITLE 24, CCR)
- 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEM	2022 EDITION
NFPA 14	STANDPIPE AND HOSE SYSTEMS	2019 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 20	STATIONARY PUMPS	2019 EDITION
NFPA 24	PRIVATE FIRE MAINS	2019 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE: SEE UL, STANDARD 1971 FOR "VISUAL DEVICES")	2022 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2019 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMMENDED)	2018 EDITION

GENERAL NOTES

1. SUBSTITUTION OF PRODUCTS OR PROCESSES WHICH CHANGE THE STRUCTURAL SAFETY, FIRE & LIFE-SAFETY, OR ACCESSIBILTY OF THIS BUILDING SHALL BE SUBMITTED TO THE DSA AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT.
2. BUILDING APPROVED ONLY FOR OCCUPANCY "E" OR "B".
3. BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
4. BUILDINGS LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A.
5. AUTOMATIC SPRINKLER SYSTEMS MIGHT BE REQUIRED FOR SITE SPECIFIC PROJECTS. OPTIONAL AUTOMATIC FIRE SPRINKLER DESIGNS ARE NOT INCLUDED IN THIS APPROVAL. (NOTE: SEE BUILDING DATA THIS SHEET FOR FIRE SPRINKLER SYSTEM WEIGHT INCLUDED IN BUILDING DESIGN)
6. FIRE SERVICE UNDERGROUND SHALL BE REVIEWED AS A SITE SPECIFIC APPLICATION. WATER SUPPLY SHALL BE DESIGNED TO MEET THE SPRINKLER DEMAND REQUIREMENTS.
7. PROVIDE A SITE SPECIFIC FIRE FLOW LETTER OF CERTIFICATION FROM AN APPROVED WATER PURVEYOR OR LOCAL FIRE AUTHORITY.
8. THIS PLAN SHALL NOT BE USED TO HOUSE "ROOMS OR AREAS WITH SPECIAL HAZARDS" SUCH AS LABORATORIES, VOCATIONAL SHOPS AND OTHER SUCH AREAS NOT CLASSIFIED AS GROUP H, LOCATED IN GROUP E OCCUPANCIES.
9. NOT USED
10. IF THE STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND SITE SPECIFIC PROJECT SUBMITTAL IS REQUIRED. IF THE SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.
11. THIS BUILDING IS NOT DESIGNED FOR FLOOD HAZARD AREAS. WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A GEOTHECHNICAL ENGINEER IS NEEDED TO VALIDATE THAT THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC DRAWINGS ARE STILL APPLICABLE, UNLESS THE BOTTOMS OF FOUNDATIONS ARE RAISED ABOVE THE DESIGN FLOOD ELEVATION, A VALIDATION LETTER FROM THE GEOTHECNICAL ENGINEER SHALL BE PROVIDED, EVEN IF THE PRESUMPTIVE LOAD-BEARING VALUES PER CBC SECTION 1806A.2 ARE USED. PROJECT SHALL BE EXEMPT FROM THE VALIDATION LETTER FOR PROJECTS LOCATED IN ZONE D (UNDEFINED) IF THE APPLICANT PROVIDES EVIDENCE FROM THE LOCAL JURISDICTION OR A QUALIFIED DESIGN PROFESSIONAL CONFIRMING THAT THE SITE IS NOT IN A FLOOD HAZARD ZONE. LOCATION OF ELECTRICAL ELEMENTS SHALL CONFORM TO THE AMERICAN SOCIETY OF CIVIL ENGINEERS.
12. THE PLACEMENT OF THE BUILDING(S) ON OR ADJACENT TO SLOPES SHALL COMPLY WITH THE 'FOUNDATION CLEARANCES FROM SLOPES' SPECIFICATIONS FOUND ON SHEET N2.0 OF THESE DRAWINGS.
13. BUILDING SHALL NOT BE PLACED OR BE RELOCATED IN AREAS HAVING A NOISE CONTOUR GREATER THAN OR EQUAL TO 65 CNEL, OR IN AREAS EXPOSED TO A NOISE LEVEL OF 65 dB L_{eq}-1-hr DURING ANY HOUR OF OPERATION WHEN NOISE CONTOURS ARE NOT READILY AVAILABLE, AS SPECIFIED IN CALGREEN CODE, SECTION 5.507.4.1 & 5.507.4.1.1.
14. THIS BUILDING IS NOT DESIGNED FOR SNOW LOADS.
15. THIS BUILDING IS NOT DESIGNED FOR ICE LOADS.
16. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF CBC AND CFC, AND THE WRITTEN SITE SAFETY PLAN.
17. SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY THE CALIFORNIA GEOLOGICAL SURVEY (CGS) IS NOT REQUIRED FOR SINGLE-STORY MODULAR BUILDINGS PROVIDED THAT THEY DO NOT EXCEED 4,000 SQUARE FEET IN PLAN AREA AND ARE NOT LOCATED WITHIN STATE OR LOCAL GEOLOGICAL HAZARD ZONES IN ACCORDANCE WITH IR A-4, SECTION 3.2.1.
18. THE DESIGN PROFESSIONAL HAS EXEMPTED RAMPS FROM SPECIAL INSPECTION REQUIREMENTS FOR MATERIAL IDENTIFICATION AND STRUCTURAL WELDING. RAMP SHALL NOT BE MODIFIED NOR HAVE SHIMS ADDED CAUSING THE DISTANCE BETWEEN THE HIGHEST RAMP WALKING SURFACE AND THE ADJACENT GRADE TO BE MORE THAN 30 INCHES. IF THIS CONDITION IS NOT MET, STRUCTURAL TESTING AND/OR INSPECTION WILL BE REQUIRED TO VERIFY MATERIALS AND STRUCTURAL WELDING. THIS APPLIES TO SCOPES OF WORK INCLUDING NEW CONSTRUCTION, ALTERATION, OR RELOCATION OF THE RAMP.
19. THIS WILL NOT BE PLACED ON ANY CAMPUS IN AND OF THE FOLLOWING LOCATIONS:
    19.1. WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT.
    19.2. WITHIN THE 65 CNEL OR LDN NOISE CONTOUR OF A FREEWAY, EXPRESSWAY, RAILROAD OR INDUSTRIAL SOURCE GUIDEWAY.
    19.3. WHERE EXPOSED TO NOISE LEVELS OF 65 DB-LEQ-1-HOUR DURING ANY HOUR OF OPERATION.

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BUILDING DATA

OCCUPANCY	E ~~OR B (CLASSROOM USE FOR COLLEGE)~~				
TYPE OF CONSTRUCTION	V-B (CATEGORY I & II)				
WIND LOAD ASCE 7-16 SECTION28.5.3 SIMPLIFIED PROCEDURE	V = 99 MPH BASIC WIND SPEED EXPOSURE = C INTERNAL PRESSURE COEFF., $GC_{P,I}$ = ±0.18 ROOF ANGLE = 9.5 DEGREES				RISK CATEGORY II K_{ZT} = 1.00
ICE LOAD	NOT CONSIDERED (SEE GENERAL NOTE #15 THIS SHEET)				
SNOW LOAD	NOT CONSIDERED (SEE GENERAL NOTE #14 THIS SHEET)				
ROOF LIVE LOAD (MAX PSF)	20 (REDUCIBLE)				
FLOOR LIVE LOAD (PSF)	☐ 50	☒ 50+15	☐ 100		
RAMP LIVE LOAD (MAX PSF)	100 (1,000# CONCENTRATED LD)				
DESIGN DEAD LOADS (MAX PSF)	21.0 RF - 12.0 WD FLR - ~~48.0 CONC. FLR~~ - 18.0 EXT WALLS				
FIRE SPRINKLER SYSTEM DESIGN WT.	1.5 PSF INCLUDED IN ROOF DESIGN DEAD LOADS ABOVE (SEE GENERAL NOTES #5 - #7 THIS SHEET)				
ROOF SOLAR PANEL SYSTEM DESIGN WT.	3.0 PSF INCLUDED IN ROOF DESIGN DEAD LOADS ABOVE (SEE GENERAL NOTE #9 THIS SHEET)				
ALLOWABLE SOIL PRESSURE (PSF)	1500 FOR CONCRETE FOUNDATION				
FLOOD HAZARD AREA	NO (SEE GENERAL NOTE #11 THIS SHEET)				
RAIN INTENSITY (IN/HR)	3"				
BUILDING AREA (SQ. FT.)	480				
CLIMATE ZONE GROUP	☐ A (1,16)	☒ B (2-5)	☒ C (6-13)	☒ D (14,15)	(REFER TO EN.1 FOR REQUIREMENTS)
MODULES	LIGHT MODULAR STEEL MOMENT-FRAMES PER CBC SECION 2212A				
SYSTEM	12'x40' MODULE				
FOUNDATION TYPE	☐ WOOD	☒ CONCRETE			

SITE-SPECIFIC OPTIONS

FLOOR DECK	☒ 1⅛" PLYWOOD SHTG.	☐ BH-36 DECK 1½"x18 GA.	☐ 3WxH DECK 3"x18 GA.	
WALL STUDS	☒ WOOD	☐ LIGHT-GAUGE STEEL		
EXTERIOR WALL FINISH	☐ STUCCO	☐ SYNTHETIC STUCCO	☐ LAP SIDING	☒ DURATEMP 303
HVAC	☐ INTERIOR FLOOR MOUNTED	☐ EXTERIOR WALL MOUNTED	☐ SPLIT SYSTEM	
ROOFING	☒ 3" x 20 GA. STANDING SEAM	☐ 3" X 22 GA. STANDING SEAM OVER STRUCT. WOOD SHEATHING	☐ BUILT-UP ROOFING	☐ SINGLE-PLY
ROOF PITCH	☐ SINGLE PITCH	☒ DUAL PITCH		
ROOF DIAPHRAGM	☒ STEEL STRAP CROSS BRACING - SEE SHEET S4.0	☐ ½" SHEATHING - SEE SHEET S4.1		
FRONT OVERHANG	☐ NO	☒ YES - LENGTH: 2'-9"	ENCLOSED - 7'-0" MAX	
REAR OVERHANG	☐ NO	☒ YES - LENGTH: 2'-9"	ENCLOSED - 7'-0" MAX	
RAMP(S)	☒ NO	☐ YES (SEE SHEET S10.0)		
SOLATUBE ON ROOF	☒ NO	☐ YES		
FIRE SPRINKLERS	☒ NO	☐ YES (SEE GENERAL NOTES #5 - #7 THIS SHEET)		
PARAPETS	☒ NO	☐ YES (SEE SHEET S4.3)		
SOLAR PANELS	☒ NO	☐ YES (SEE GENERAL NOTE #9 THIS SHEET)		
OPTIONAL SIDE WALL CANOPY	☒ NO	☐ YES (SEE SHEET S5.4A)		
LIQUEFIABLE SOILS	☒ NO	☐ YES (SEE GENERAL NOTE #10 THIS SHEET)		
MAPPED GEOHAZARD ZONE	☒ NO	☐ YES (AS DEFINED BY PC-6 SECTION 1.8)		
GEOHAZARD REPORT	☒ NO	☐ YES		
IF YES	GEOTECHNICAL FIRM:			
	REPORT #:		REPORT DATE:	
GEOTECHNICAL REPORT*	☒ NO	☐ YES	* REQUIRED IF BUILDING AREA > 4,000 SF	
IF YES	GEOTECHNICAL FIRM:			
	REPORT #:		REPORT DATE:	
	DEEPER FOOTINGS REQUIRED?	☐ NO	☐ YES - REQUIRED DEPTH:	
	WIDER FOOTINGS REQUIRED?	☐ NO	☐ YES - REQUIRED WIDTH:	
BELOW GRADE CONCRETE MIX DESIGN	DEFAULT CONCRETE MIX DESIGN FOR BELOW GRADE CONCRETE PER SHEET N1.0A.			
	OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN FOR BELOW GRADE CONCRETE PER SHEET N1.0A.			

☒ THIS SHEET CONTAINS DESIGN OPTION BOXES AVAILABLE FOR SELECTION BASED ON SITE SPECIFIC REQUIREMENTS.

SEE SHEET TS2 FOR SHEET INDEX

SITE SPECIFIC WIND CRITERIA

SITE SPECIFIC BASIC WIND SPEED = 99 MPH

WIND EXPOSURE = C

SITE SPECIFIC SEISMIC VALUES

SITE SPECIFIC S_S = 1.631

SITE SPECIFIC S_1 = 1.147

SITE CLASS = D = DEFAULT

(NOTE: SITE SHALL BE SITE CLASS "D" DEFAULT IF NO SOILS REPORT)

PC BUILDING SEISMIC DESIGN CRITERIA

$I_e = 1.0$ $\quad T = 0.231_s$ $\quad R = 3.5$ (OMF)
$\Omega_O = 3.0$ $\quad C_d = 3.0$ $\quad \rho = 1.3$

RISK CATEGORY II
SEISMIC DESIGN CATEGORY: D ($S_1 < 0.75$)
E ($S_1 \geq 0.75$)

MAXIMUM STORY DRIFT RATIO = 2.0% (I.E. MAX DRIFT = 0.020 x THE HEIGHT UNDER CONSIDERATION.)
LATERAL FORCE RESISTING SYSTEM: LIGHT MODULAR STEEL MOMENT FRAMES PER 2212A
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

NOTE:
COMPONENTS AND CLADDING DESIGNED FOR:
$S_{DS} = 1.30$

☒ NO SOILS REPORT - ASSUMED SITE CLASS "D" DEFAULT

S_s = 1.631 MAX (SITE), 1.631 (DESIGN) $\quad F_a = 1.2$ $\quad S_{DS}$ = 1.30 MAX (SITE), 1.30 (DESIGN)

S_1 = 1.147 MAX (SITE & DESIGN) $\quad F_v = 1.7$ $\quad S_{D1}$ = 1.30 MAX (SITE & DESIGN) $\quad \boxed{C_s = 0.485}$ W (DESIGN)*

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

NOTE: GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED WHERE THE VALUE OF THE PARAMETERS S IS INCREASED BY 50% FOR ALL APPLICATIONS OF SM1 (ASCE 7-16 w/SUPPLEMENT #3, SECTION 11.4.8, EXCEPTION1)

S_s = 1.955 MAX (SITE), 1.955 (DESIGN) $\quad F_a = 1.0$ $\quad S_{DS}$ = 1.30 MAX (SITE), 1.30 (DESIGN)*

S_1 = 1.147 MAX (SITE & DESIGN) $\quad F_v = 1.7$ $\quad S_{D1}$ = 1.30 MAX (SITE & DESIGN) $\quad \boxed{C_s = 0.485}$ W (DESIGN)*

☐ WITH SOILS REPORT - SITE CLASS "C"

S_s = 1.631 MAX (SITE), 1.631 (DESIGN) $\quad F_a = 1.2$ $\quad S_{DS}$ = 1.30 MAX (SITE), 1.30 (DESIGN)

S_1 = 1.393 MAX (SITE & DESIGN) $\quad F_v = 1.4$ $\quad S_{D1}$ = 1.30 MAX (SITE & DESIGN) $\quad \boxed{C_s = 0.485}$ W (DESIGN)*

☐ WITH SOILS REPORT - SITE CLASS "E"

NOTE: GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED WHERE THE EQUIVALENT LATERAL FORCE PROCEDURE IS USED FOR DESIGN AND THE VALUE OF C_s IS DETERMINED BY EQ (12.8-2) FOR ALL VALUES OF *T* (ASCE 7-16 w/SUPPLEMENT #3, SECTION 11.4.8, EXCEPTION 2) SEE GENERAL NOTE #10.

S_s = 1.625 MAX (SITE), 1.625 (DESIGN) $\quad F_a = 1.2$ $\quad S_{DS}$ = 1.30 MAX (SITE), 1.30 (DESIGN)

S_1 = 0.975 MAX (SITE & DESIGN) $\quad F_v = 2.0$ $\quad S_{D1}$ = 1.30 MAX (SITE & DESIGN) $\quad \boxed{C_s = 0.485}$ W (DESIGN)*

☐ WITH SOILS REPORT - SITE CLASS "F"

PER ASCE 7-16 SECTION 11.4.8, A SITE REPONSE ANALYSIS IN ACCORDANCE WITH SECTION 21.1 IS REQUIRED UNLESS EXEMPTED BY SECTION 20.3.1. SEE GENERAL NOTE #3.

SITE SPECIFIC S_{DS} = ____________

$S_{DS} = S_{D1} = 1.30$ MAX

$\boxed{C_s = 0.485}$ W (DESIGN)*

SITE SPECIFIC S_{D1} = ____________

* - BASE SHEAR (INCLUDES 'ρ')

*PER ASCE 7-16, SECTION 12.8.1.3:
THE VALUE OF C_S AND E_V ARE PERMITTED TO BE CALCULATED USING A VALUE OF S_{DS} EQUAL TO 1.0, BUT NOT LESS THAN 70% OF S_{DS} AS DEFINED IN SECTION 11.4.5, PROVIDED THAT ALL OF THE FOLLOWING CRITERIA ARE MET:

1. STRUCTURE DOES NOT HAVE IRREGULARITIES;
2. STRUCTURE DOES NOT EXCEED FIVE (5) STORIES ABOVE THE LOWER OF THE BASE OR GRADE PLANE;
3. STRUCTURE HAS A FUNDAMENTAL PERIOD, T, THAT DOES NOT EXCEED 0.5 SECONDS;
4. STRUCTURE MEETS REQUIREMENTS FOR REDUNDANCY FACTOR, ρ, TO BE TAKEN AS 1.0;
5. SITE SOIL PROPERTIES ARE NOT CLASSIFIED AS SITE CLASS 'E' OR 'F';
6. STRUCTURE IS CLASSIFIED AS RISK CATEGORY II.
7. WHEN SITE SPECIFIC GROUND MOTION PROCEDURE IS REQUIRED PER 11.4.8, SITE-SPECIFIC PROJECTS ARE NOT ALLOWED FOR OTC SUBMITTAL.
8. FOR SITE SPECIFIC, ADHERE TO SITE NOTES ON PC, SHEET N5.0

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PRE-CHECKED SET NAME
12'x40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(1) 12'x40' RESTROOM

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-27
STATE OF CALIFORNIA

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	AV
SCALE:	AS NOTED
DATE:	3/25/2026
PROJECT NO:	2003-26

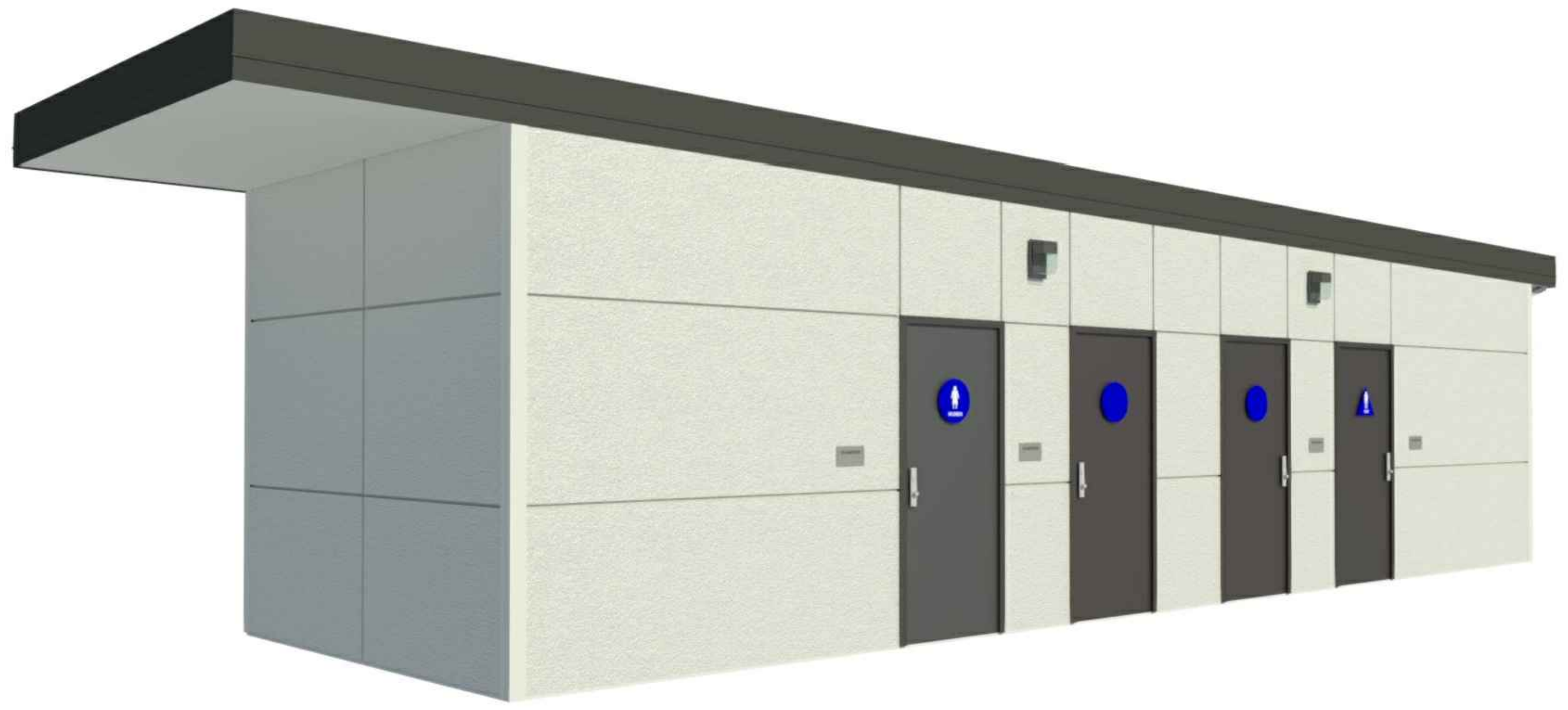
SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
TS

American Modular Systems

STOCKPILE

(1) 12' x 40' RESTROOM BUILDING



SHEET INDEX

ARCHITECTURAL

OPTIONS		SHEET NUMBER	SHEET TITLE
COVER SHEET		☒ TS	TITLE SHEET
		☒ TS2	SHEET INDEX
INSPECTION FORM		☒ D1	FORM DSA-103
		☒ D2	FORM DSA-103
GENERAL NOTES & SPECIFICATIONS		☒ N1.0	GENERAL NOTES & SPECIFICATIONS
		☒ N1.0A	BELOW GRADE CONCRETE MIX DESIGN REQUIREMENTS
		☒ N2.0	GENERAL NOTES & SPECIFICATIONS
		☒ N3.0	TYPICAL SCHEDULES: DOORS, WINDOWS & FINISHES
		☒ N4.0	ACCESSIBILITY STANDARDS AND DETAILS
		☐ N5.0	FLOOR PLAN CONFIGURATION
ENERGY SHEETS & CALCULATIONS		☒ EN.1	ENERGY CALCULATIONS - SUMMATIONS
		☐ EN.2	ENERGY CALCULATIONS - GROUP A
		☐ EN.3	ENERGY CALCULATIONS - GROUP A
		☒ EN.4	ENERGY CALCULATIONS - GROUP B
		☒ EN.5	ENERGY CALCULATIONS - GROUP B
		☒ EN.6	ENERGY CALCULATIONS - GROUP C
		☒ EN.7	ENERGY CALCULATIONS - GROUP C
		☒ EN.8	ENERGY CALCULATIONS - GROUP D
		☒ EN.9	ENERGY CALCULATIONS - GROUP D
		☒ EN.10	ENERGY CALCULATIONS - SUPPLEMENTAL SHEETS
		☒ EN.11	ENERGY CALCULATIONS - SUPPLEMENTAL SHEETS
		☒ EN.12	ENERGY CALCULATIONS - SUPPLEMENTAL SHEETS
FLOOR PLANS		☐ A1.0	TYPICAL FLOOR PLAN
		☒ A1.2	RESTROOM FLOOR PLAN
		☐ A1.3	RESTROOM FLOOR PLAN OPTIONS - AGE RANGE: 9-12
		☐ A1.4	RESTROOM FLOOR PLAN OPTIONS - AGE RANGE: 5-8
		☐ A1.5	RESTROOM FLOOR PLAN OPTIONS - AGE RANGE: 3-4
ROOF PLAN & DETAILS	METAL STANDING SEAM	☒ A2.0	TYPICAL ROOF PLAN - METAL STANDING SEAM
		☒ A2.1	TYPICAL ROOF DETAILS - METAL STANDING SEAM ROOFING
	SINGLE-PLY OR BUILT-UP	☐ A2.2	TYPICAL ROOF PLAN - SINGLE-PLY OR BUILT-UP ROOFING
		☐ A2.5	TYPICAL ROOF DETAILS - SINGLY-PLY OR BUILT-UP ROOFING
INTERIOR ELEVATIONS		☐ A4.0	INTERIOR ELEVATIONS - TYPICAL CLASSROOM
		☒ A4.1	INTERIOR ELEVATIONS - RESTROOM
		☐ A4.2	INTERIOR ELEVATIONS - RESTROOM OPTIONS
		☐ A4.3	INTERIOR ELEVATIONS - RESTROOM OPTIONS - ALT. TOILET TYPES
EXTERIOR ELEVATIONS & ARCHITECTURAL DETAILS	DURATEMP 303 SIDING	☒ A5.0	TYPICAL EXTERIOR ELEVATIONS - DURATEMP 303 SIDING OPTION
		☒ A5.1	TYPICAL ARCHITECTURAL DETAILS - DURATEMP 303 SIDING OPTION
	STUCCO	☐ A5.2	TYPICAL EXTERIOR ELEVATIONS - STUCCO OPTION
		☐ A5.3	TYPICAL ARCHITECTURAL DETAILS - STUCCO OPTION
	LAP SIDING	☐ A5.4	TYPICAL EXTERIOR ELEVATIONS - LAP SIDING OPTION
		☐ A5.5	TYPICAL ARCHITECTURAL DETAILS - LAP SIDING OPTION
	SYNTHETIC STUCCO	☐ A5.6	TYPICAL EXTERIOR ELEVATIONS - SYNTHETIC STUCCO OPTION
		☐ A5.7	TYPICAL ARCHITECTURAL DETAILS - SYNTHETIC STUCCO OPTION
MISCELLANEOUS DETAILS		☐ A7.0	ARCHITECTURAL EXTERIOR FINISH OPTIONS DETAILS
		☒ A7.1	MISCELLANEOUS ARCHITECTURAL DETAILS
		☒ A7.3	TYPICAL LONGITUDINAL AND TRANSVERSE FRAME SECTIONS
		☐ A8.0	1-HR FIRE RATED CONSTRUCTION DETAILS

STRUCTURAL

OPTIONS		SHEET NUMBER	SHEET TITLE
STEEL MEMBER PROPERTIES		☒ S0.0	STEEL MEMBER PROPERTIES
FOUNDATION PLANS & DETAILS	CONCRETE	☒ S1.0	CONCRETE FOUNDATION PLANS CONCRETE FLOORS (100 PSF MAX FLOOR LIVE LOAD)
		☒ S1.4	CONCRETE FOUNDATION DETAILS
		☒ S1.5	CONCRETE FOUNDATION DETAILS
		☒ S1.6C	DOUBLE PLATE ANCHORAGE FOUNDATION DETAILS
		☒ S1.7	CONCRETE FOUNDATION OPTIONAL UTILITY OPENINGS IN FOOTINGS
WOOD FNDN. PLANS & DETAILS	WOOD	☐ S2.0	WOOD FOUNDATION PLAN & DETAILS - PLYWOOD FLOORS ONLY- 100 PSF MAX FLOOR L.L.
FLOOR FRAMING PLAN & DETAILS	PLYWOOD	☒ S3.0	FLOOR FRAMING PLAN & DETAILS FOR PLYWOOD FLOOR
	CONCRETE w/ METAL DECK	☐ S3.1	FLOOR FRAMING PLAN & DETAILS FOR CONCRETE FLOOR w/BH-DECK OPTION (100 PSF MAX FLOOR L.L.)
		☐ S3.3	FLOOR FRAMING PLAN & DETAILS FOR CONCRETE FLOOR w/3WxH-DECK OPTION (100 PSF MAX FLOOR L.L.)
PARAPET PLAN & DETAILS		☒ S4.0	ROOF FRAMING PLAN & DETAILS - CROSS BRACING OPTION
		☐ S4.1	ROOF FRAMING PLAN & DETAILS - ROOF SHEATHING OPTION
		☒ S4.2	ROOF FRAMING DETAILS - CROSS BRACING OPTION
		☐ S4.3	ROOF FRAMING DETAILS - ROOF SHEATHING OPTION
		☐ S4.4	OPTIONAL PARAPET FRAMING ELEVATIONS & DETAILS
BUILDING FRAMING ELEVATIONS & DETAILS		☒ S5.0	MOMENT FRAME ELEVATIONS & DETAILS
		☒ S5.1	MOMENT FRAME CONNECTION DETAILS
		☐ S5.4A	OPTIONAL SIDE WALL CANOPY PLAN & DETAILS
WALL FRAMING	WOOD STUDS	☒ S8.0	WALL FRAMING ELEVATIONS & SCHEDULES - WOOD STUDS
		☒ S8.1	WALL FRAMING DETAILS - WOOD STUDS
	METAL STUDS	☒ S9.0	WALL FRAMING ELEVATIONS & SCHEDULES - METAL STUD OPTION
		☒ S9.1	WALL FRAMING DETAILS - METAL STUD OPTION
		☒ S9.2	TYPICAL METAL STUD FRAMING DETAILS & PROPERTIES
RAMPS		☐ S10.0	TYPICAL RAMP PLANS & NOTES
		☐ S10.1	RAMP DETAILS

MECHANICAL

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLANS	☐ M1.0	TYPICAL REFLECTED CEILING PLAN
	☐ M1.1	TYPICAL MECHANICAL PLAN OPTIONS
	☒ M1.2	REFLECTED CEILING PLAN
DETAILS	☒ M1.4	MECHANICAL & CEILING DETAILS
	☐ M1.4A	MECHANICAL & CEILING DETAILS
	☒ M1.5	MECHANICAL & CEILING DETAILS
	☐ M1.5A	MECHANICAL & CEILING DETAILS
	☒ M1.6	MECHANICAL ROOF DETAILS
	☐ M1.6A	MECHANICAL ROOF DETAILS
MISCELLANEOUS	☒ M1.7	CEILING NOTES & SPECIFICATIONS
	☒ M1.7A	MECHANICAL NOTES & SCHEDULES

ELECTRICAL

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLANS & DETAILS	☒ E1.0	ELECTRICAL PLANS & SYMBOLS LEGEND
	☒ E1.2	ELECTRICAL NOTES & DETAILS

PLUMBING

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLAN & DETAILS	☒ P1.0	RESTROOM OPTIONS, PLUMBING PLANS, & FIXTURE SCHEDULE
	☒ P2.0	PLUMBING DETAILS & ACCESSIBLE DETAILS
	☒ P3.0	PLUMBING ISOMETRIC DRAWINGS

TOTAL SHEET COUNT
54

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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PRE-CHECKED SET NAME
12'x40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(1) 12'x40' RESTROOM

MANUFACTURER PROFESSIONAL OF RECORD

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-27

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	AV
SCALE:	AS NOTED
DATE:	3/10/2026
PROJECT NO:	2003-26

SHEET TITLE:
SHEET INDEX

SHEET NUMBER:
TS2

AUTHORIZED USE: ALL INFORMATION INCLUDED ON THIS SHEET (FORM DSA-103) IS FOR THE SOLE PURPOSE OF RECEIVING DSA APPROVAL AND ISSUANCE OF A PC NUMBER. NO OTHER USE IS AUTHORIZED WITHOUT THE EXPRESS WRITTEN CONSENT OF AMERICAN MODULAR SYSTEMS, INC.

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

	STOCKPILE	CONSTRUCTION OF PERMANENT MODULAR OR RELOCATABLE BUILDING	RELOCATION OF CERTIFIED RELOCATABLE BUILDING
INSPECTOR CLASS (minimum requirements)	RBIP or Class 1	In Plant: RBIP or Class 1 Site: Class 4 for Single Story	Class 4 for Single Story
Selection of the Project Inspector and Testing/Special Inspection Agency	by the Owner (not manufacturer) and approved by DSA, A/E of Record and Structural Engineer	by the School District and approved by DSA and A/E responsible for in-plant construction observation.	by the Owner (not manufacturer) and approved by DSA, A/E of Record and Structural Engineer
Cost of the Project Inspector (CAC, Section 4-333(b)) and Testing/Special Inspection Agency (CAC, Section 4-335(b))	by the Owner (not manufacturer)	by the School District	

NOTES:
NOTE 1: REINFORCING STEEL TESTS MAY BE WAIVED FOR ONE-STORY BUILDINGS, PER CBC, SECTION 1910A.2 (1909.2.4*).
NOTE 2: REQUIRED ONLY WHERE THE DETAILS OF THE PC SPECIFY THE USE OF THIS TYPE OF ANCHOR.
NOTE 3: REQUIRED ONLY WHERE THE DETAILS OF THE PC SPECIFY THIS WELDING.
NOTE 4: THESE TESTS AND INSPECTIONS ARE APPLICABLE ONLY WHEN A GEOTECHNICAL REPORT IS REQUIRED.
NOTE 5: WOOD FOUNDATIONS ARE NOT PERMITTED FOR PERMANENT MODULAR BUILDINGS PER CBC SECTION 1807A.1.4.

*INDICATES ALTERNATIVE CBC SECTIONS THAT COMMUNITY COLLEGES MAY USE PER CBC SECTION 1.9.2.2.

HOLLO-BOLT MANUFACTURER'S INSPECTION PROCEDURES

NOT USED

PERIODIC SPECIAL INSPECTION REQUIREMENTS

ICC ES ESR-3330 Seismic Approved

CITY LA DBS DEPARTMENT OF BUILDING AND SAFETY

TO VERIFY CORRECT INSTALLATION INCLUDING USE IN SEISMIC OR WIND LOADING APPLICATIONS IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE SECTIONS 1705A.1, 1705A.2, AND 1704A.3 PLEASE REFER TO THE FOLLOWING INSTRUCTIONS.

A. INSPECTION PRIOR TO INSTALLATION

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

B. INSPECTION DURING INSTALLATION

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

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

C. INSPECTION AFTER INSTALLATION

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

FOOTNOTES

1. WAIVER OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.1 AND DSA IR 17-13)
   - A. CONTINUOUS BATCH PLANT INSPECTION MAY BE WAIVED IF THE CONCRETE PLANT COMPLIES FULLY WITH ASTM C94, SECTION 9 AND 10, AND HAS A CURRENT CERTIFICATION FROM THE "NATIONAL READY MIXED CONCRETE ASSOCIATION" OR ANOTHER AGENCY ACCEPTABLE TO THE ENFORCEMENT AGENCY. THE CERTIFICATION SHALL INDICATE THAT THE PLANT HAS AUTOMATIC BATCHING AND RECORDING CAPABILITIES.
   - B. IF THE BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS a) THRU c) SHALL BE MET:
     - a) AN APPROVED AGENCY OR CERTIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT START OF WORK DAY TO VERIFY MATERIALS AND PROPORTIONS CONFORM TO THE APPROVED MIX DESIGN.
     - b) THE LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
     - c) BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD PRIOR TO CONCRETE PLACEMENT.
2. ELIMINATION OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.2):
   - A. BATCH PLANT INSPECTION IS NOT REQUIRED FOR ANY OF THE FOLLOWING CONDITIONS:
     - a) SITE FLATWORK,
     - b) UNENCLOSED SITE STRUCTURES, INCLUDING BUT NOT LIMITED TO LUNCH OR CAR SHELTERS, BLEACHERS, SOLAR STRUCTURES, FLAG OR LIGHT POLES, OR RETAINING WALLS,
     - c) CONTROLLED LOW-STRENGTH MATERIAL BACKFILL, OR
     - d) SINGLE STORY RELOCATABLE BUILDINGS LESS THAN 2,160 SQUARE FEET.
3. PER CBC 1910A.2, TESTING OF REINFORCING MAY BE WAIVED FOR ONE-STORY BUILDINGS IF A CERTIFIED MILL TEST REPORT IS PROVIDED.
4. REQUIRED ONLY WHERE DETAILS SPECIFY THE USE OF POST-INSTALLED CONCRETE ANCHORS.
5. NOT USED
6. THE APPENDIX TO DSA-103 SHALL BE COMPLETED BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
7. ULTRASONIC TESTING PER DSA IR-PC2 SECTION 10.1 SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS WHEN THE COLUMNS PER SCHEDULE ON SHEET S5.1 HAVE A THICKNESS OF $\frac{5}{16}$" OR GREATER. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS. NONDESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION WELDS AT GRAVITY CONNECTIONS SHALL COMPLY WITH AISC 360, CHAPTER N, PER 2022 CBC 1705A.2.1.
8. EXAMPLE DSA-103 FORMS WILL BE USED AS GUIDE TO DEVELOP A SITE-SPECIFIC DSA-103 FORM FOR THE SITE-SPECIFIC PROJECT. EXAMPLE FORMS ON THE PC DRAWINGS WILL BE CROSSED OUT WHEN SITE-SPECIFIC DSA-103 FORMS ARE PROVIDED DURING OTC REVIEW.
9. QUALIFIED REPRESENTATIVE OF LABORATORY OF RECORD OR APPROVED SPECIAL INSPECTOR SHALL VERIFY ALL STEEL IDENTIFICATION PER 2022 CBC 2202A.1 AND DSA IR 17-3 STRUCTURAL WELDING INSPECTION.

72' x 40' BUILDING FLOOR PLAN

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122050	School Name: PC	School District: PC
DSA File Number:	Increment Number:	Date Created: 2023-11-01 14:38:17

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 noted 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.

KEY TO COLUMNS

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 CAC 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.

	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	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 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	b. Test unidentified materials	Test	LOR	2202A.1.
☑	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
☑	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).
	S/A3. WELDING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	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.
☑	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☑	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	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.
☑	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.
	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☑	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
	S/A11. Other Steel			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Shop Welding - Inspect welding of cold-formed steel Periodic/Special Inspector	Periodic	SI	
☑	b. Hollow bolts	Periodic	LOR	test per manufacturer's inspection procedures

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

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

	CONCRETE/MASONRY:
☑	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.
	WELDING:
☑	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☑	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☑	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☑	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

☒ STOCKPILE WOOD FLOOR

~~DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC~~

~~Application Number:~~ ~~04-122050~~	~~School Name:~~ ~~PC~~	~~School District:~~ ~~PC~~
~~DSA File Number:~~	~~Increment Number:~~	~~Date Created:~~ ~~2023-11-01 14:47:08~~

~~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 noted 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.~~

~~KEY TO COLUMNS~~

~~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 CAC 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.~~

	~~S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES~~			
	~~Test or Special Inspection~~	~~Type~~	~~Performed By~~	~~Code References and Notes~~
☑	~~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 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.~~
☑	~~b. Test unidentified materials~~	~~Test~~	~~LOR~~	~~2202A.1.~~
☑	~~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).~~
	~~S/A3. WELDING:~~			
	~~Test or Special Inspection~~	~~Type~~	~~Performed By~~	~~Code References and Notes~~
☑	~~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.~~
☑	~~b. Verify weld filler material manufacturer's certificate of compliance.~~	~~Periodic~~	~~SI~~	~~DSA IR 17-3.~~
☑	~~c. Verify WPS, welder qualifications and equipment.~~	~~Periodic~~	~~SI~~	~~DSA IR 17-3.~~
	~~S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):~~			
	~~Test or Special Inspection~~	~~Type~~	~~Performed By~~	~~Code References and Notes~~
☑	~~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.~~
☑	~~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.~~
	~~Test or Special Inspection~~	~~Type~~	~~Performed By~~	~~Code References and Notes~~
	~~S/A6. NONDESTRUCTIVE TESTING:~~			
	~~**Test or Special Inspection**~~	~~**Type**~~	~~**Performed By**~~	~~**Code References and Notes**~~
	~~**S/A6. NONDESTRUCTIVE TESTING:**~~			
	~~**Test or Special Inspection**~~	~~**Type**~~	~~**Performed By**~~	~~**Code References and Notes**~~
☑	~~**a.** Ultrasonic~~	~~**Test**~~	~~**LOR**~~	~~**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.~~
☑	~~**b.** Magnetic Particle~~	~~**Test**~~	~~**LOR**~~	~~**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.~~
	~~**S/A11. Other Steel**~~			
	~~**Test or Special Inspection**~~	~~**Type**~~	~~**Performed By**~~	~~**Code References and Notes**~~
☑	~~**a.** Shop Welding - Inspect welding of cold-formed steel Periodic/Special Inspector~~	~~Periodic~~	~~SI~~	
☑	~~b. Hollow bolts~~	~~Periodic~~	~~LOR~~	~~test per manufacturer's inspection procedures~~

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~~

~~Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections~~

	~~**CONCRETE/MASONRY:**~~
☑	~~5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.~~
	~~**WELDING:**~~
☑	~~3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.~~
☑	~~4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).~~
☑	~~5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).~~
☑	~~7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.~~

☐ STOCKPILE CONCRETE FLOOR

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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

FORM

SITE SPECIFIC PROJECT NAME
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.
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~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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

REVISIONS
1
2
3
4

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

SHEET TITLE:
FORM
DSA-103

SHEET NUMBER:
D1

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122050 DSA File Number:	School Name: PC Increment Number:	School District: PC Date Created: 2023-11-01 15:01:26

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 noted 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.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required Periodic – Indicates that a periodic special inspection is required Test – Indicates that a test is required	GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. 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 CAC Section 4-335. 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.

Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

	S1. GENERAL:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	See Notes	PI	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.
	S2. SOIL COMPACTION AND FILL:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	b. Compaction testing.	Test	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
	C1. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
☑	b. Identifiy, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.
☑	d. Test concrete (f'_c).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
☑	e. Batch plant inspection: Continuous	See Notes	SI	Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	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 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	b. Test unidentified materials	Test	LOR	2202A.1.
☑	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
☑	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).
	S/A3. WELDING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	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.
☑	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☑	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	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.
☑	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.
	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	b. Inspect single-pass fillet welds ≤ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.

	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☑	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
	S/A11. Other Steel			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Shop Welding - Inspect welding of cold-formed steel Periodic/Special Inspector	Periodic	SI	
☑	b. Hollow bolts	Periodic	LOR	test per manufacturer's inspection procedures

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

☐ CONSTRUCTION OF PERMANENT MODULAR RELOCATABLE BUILDING - WOOD FLOOR / CONCRETE FOUNDATION

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122050 DSA File Number:	School Name: PC Increment Number:	School District: PC Date Created: 2023-11-01 15:07:53

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 noted 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.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required Periodic – Indicates that a periodic special inspection is required Test – Indicates that a test is required	GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. 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 CAC Section 4-335. 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.

Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

	S2. SOIL COMPACTION AND FILL:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	b. Compaction testing.	Test	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
	C1. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
☑	b. Identifiy, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.
☑	d. Test concrete (f'_c).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
☑	e. Batch plant inspection: Continuous	See Notes	SI	Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	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 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	b. Test unidentified materials	Test	LOR	2202A.1.
☑	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
☑	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).
	S/A3. WELDING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	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.
☑	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☑	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	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.
☑	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.
	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	b. Inspect single-pass fillet welds ≤ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.

	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☑	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
	S/A11. Other Steel			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Shop Welding - Inspect welding of cold-formed steel Periodic/Special Inspector	Periodic	SI	
☑	b. Hollow bolts	Periodic	LOR	test per manufacturer's inspection procedures

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

☐ CONSTRUCTION OF PERMANENT MODULAR RELOCATABLE BUILDING - CONCRETE FLOOR / CONCRETE FOUNDATION

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122050 DSA File Number:	School Name: PC Increment Number:	School District: PC Date Created: 2023-11-01 15:11:51

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 noted 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.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required Periodic – Indicates that a periodic special inspection is required Test – Indicates that a test is required	GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. 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 CAC Section 4-335. 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.

Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

	S2. SOIL COMPACTION AND FILL:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	b. Compaction testing.	Test	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
	C1. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
☑	b. Identifiy, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.
☑	d. Test concrete (f'_c).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
☑	e. Batch plant inspection: Continuous	See Notes	SI	Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
	S/A3. WELDING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	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.
☑	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☑	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	b. Inspect single-pass fillet welds ≤ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291
3. Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

	CONCRETE/MASONRY:
☑	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.
	WELDING:
☑	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☑	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☑	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☑	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

☐ RELOCATION OF CERTIFIED RELOCATABLE BUILDING

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

American Modular Systems
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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122042 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/15/2024

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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

REVISIONS

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△4

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

SHEET TITLE:

FORM
DSA-103

SHEET NUMBER:

D2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

GENERAL REQUIREMENTS

HE GENERAL CONDITIONS OF THE AGREEMENT AND ENT APPLY TO THE SEVERAL TRADE SECTIONS WITH UGH FULLY REPEATED IN EACH TRADE SECTION. TED TO ESTABLISH A STANDARD OF QUALITY. ITEMS ALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND HE WRITTEN APPROVAL OF D.S.A. AND THE RDPRC. Y WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS, 2022 C.B.C. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE RDPRC.

2. SCOPE OF WORK
   - A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.
   - B. ALL REQUIREMENTS OF TITLE 24 OF THE STATE OF CALIFORNIA, CODE OF REGULATIONS, RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:
     1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION TO BE PROVIDED BY THE RDPRC.
     2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING, MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.
     3. ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
     4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.
     5. ADDENDUMS SHALL BE SIGNED BY THE RDPRC & APPROVED BY D.S.A.
     6. CHANGES TO CONSTRUCTION DOCUMENT AFFECTING ACS, FLS & SSS SHALL BE SIGNED BY THE OWNER & THE RDPRC & APPROVED BY D.S.A. PRIOR TO COMMENCING WORK. CHANGES TO THE CONSTRUCTION COST ARE REPORTED TO D.S.A. USING FORM DSA-168 AT THE CONCLUSION OF THE PROJECT.
     7. THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.
     8. ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE RDPRC/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
     9. EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED ON THE DRAWINGS.
     10. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT TIME OF DSA APPLICATION.
     11. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND ERECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS.
     12. SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
     13. THE MANUFACTURER OF BUILDING IS TO PLACE TWO PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME SEE "GENERAL DESIGN REQUIREMENTS", SHEET N2.0. FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER.
     14. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQUIRED BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

SECTION 2A WOOD FOUNDATION

1. ALLOWABLE SOIL BEARING:
   - 1000 P.S.F. FOR WOOD FOUNDATIONS MAX
2. WOOD FOUNDATIONS SHALL BE CONSTRUCTED PER ALL NOTES, SPECIFICATIONS & DETAILS NOTED ON SHEET S2.0 OF THIS DRAWING PACKAGE.

NOTE: THE APPLICANT SHALL INITIATE A REQUEST FOR A WAIVER OF DURABILITY WHEN THE FOUNDATION SYSTEM IS UTILIZED PER THE INTERPRETATION OF REGULATIONS, IR 16-1, ISSUED BY DIVISION OF THE STATE ARCHITECT, FOR TEMPORARY BUILDINGS.

3. WORK NOT INCLUDED:
   - A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
   - B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
   - C. FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV, TELEPHONE SYSTEM, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.
4. WHEELS AND HITCH SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. ACCESSIBILITY OF SITE: THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SECTION 2B CONCRETE FOUNDATION

1. ASSUMED ALLOWABLE SOIL BEARING:
   - 1500 P.S.F. FOR CONCRETE FOUNDATIONS EMBEDDED 12" MINIMUM BELOW GRADE. (1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED FOR WIND & SEISMIC LOAD COMBINATIONS UNLESS USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1605A.3.2)
2. FOOTINGS SHALL BE LOCATED ON UNDISTURBED, FIRM, NATURAL SOIL OR APPROVED COMPACTED FILL.
3. WORK NOT INCLUDED:
   - A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
   - B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
   - C. FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV, TELEPHONE SYSTEM, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.
4. WHEELS AND HITCH SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. ACCESSIBILITY OF SITE: THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SECTION 3 CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-19.
2. THE MINIMUM 28 DAY STRENGTH AND TYPE OF CONCRETE SHALL BE AS FOLLOWS:
   FOUNDATIONS..........PER SHEET N1.0A (150 PCF)
   FOUNDATION VENTS & ACCESS WELLS..........PER SHEET N1.0A (150 PCF)
   CONCRETE OVER METAL DECK..........3000 PSI (110 PCF) *

* IF THE EQUILIBRIUM DENSITY OF THE CONCRETE MIX DESIGN EXCEEDS 110 PCF AS TESTED PER ASTM C567, THEN TEMPORARY MID-SPAN SHORING IS REQUIRED DURING CONCRETE PLACEMENT. THE CONCRETE EQUILIBRIUM DENSITY SHALL NOT EXCEED 120 PCF.

3. THE MAXIMUM WATER TO CEMENT (W/C) RATIO SHALL BE PER SHEET N1.0A FOR FOUNDATIONS AND 0.45 FOR CONCRETE OVER METAL DECK SLABS.
4. CONCRETE SLUMP SHALL BE 4" ± 1" PRIOR TO ADDING ANY WATER REDUCING ADMIXTURES. CONCRETE SLUMP SHALL NOT EXCEED 8"± 1 $\frac{1}{2}$" WHEN USING A WATER REDUCING ADMIXTURE.

CONCRETE continued

5. CEMENT SHALL CONFORM TO ASTM C150. CEMENT TYPE SHALL BE PER SHEET N1.0A FOR FOUNDATIONS, TYPE I OR II FOR CONCRETE OVER METAL DECK SLABS.
   - A. FLY ASH SHALL CONFORM TO ASTM C618 CLASS 'F' OR 'N' AND SHALL NOT EXCEED 15% CEMENT REPLACEMENT BY WEIGHT.
   - B. SLAG CEMENT SHALL CONFORM TO ASTM C989, GRADE 100 OR 120 AND SHALL NOT EXCEED 50% CEMENT REPLACEMENT BY WEIGHT.
   - C. COMBINATION OF FLY ASH & SLAG CEMENT SHALL NOT EXCEED 50% CEMENT REPLACEMENT BY WEIGHT.
6. CONCRETE AGGREGATES:
   - A. NATURAL SAND AND ROCK AGGREGATES SHALL CONFORM TO ASTM C33.
   - B. LIGHTWEIGHT AGGREGATE SHALL CONFORM TO ASTM C330.
   - C. MAX AGGREGATE SIZE SHALL BE 1"±1/4" FOR NORMAL WT. CONCRETE EXCEPT 3/8" OR 1/2" MAX MAY BE USED FOR FOUNDATION VENTS & ACCESS WELLS.
   - D. MAX AGGREGATE SIZE SHALL BE 3/8" OR 1/2" FOR LIGHT WT. CONCRETE.
7. REINFORCING SHALL CONFORM TO ASTM A615-GRADE 60, UNLESS OTHERWISE NOTED.
8. CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON DRAWINGS:
   CONCRETE DIRECTLY AGAINST GROUND (EXCEPT SLABS) ....3"
   CONCRETE EXPOSED TO GROUND BUT PLACED IN FORMS ....2"
   SLABS (ON GROUND) ....POSITION IN CENTER OF SLAB
9. ALL BARS SHALL HAVE A CLASS B MINIMUM LAP SPLICE PER DETAILS 6 & 9/S1.4 AND SPLICES IN ADJACENT BARS SHALL BE STAGGERED, U.N.O.
10. REINFORCING BARS SHALL NOT BE WELDED UNLESS SPECIFICALLY DETAILED IN THE APPROVED DRAWINGS. BARS DETAILED TO BE WELDED SHALL BE ASTM A706 BARS AND WELDING ELECTRODES SHALL BE E80XX. WELDING SHALL CONFORM WITH AWS D1.4-2017 AND SHALL BE CONTINUOUSLY INSPECTED.
11. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE LAP SPLICED TWO SQUARES MINIMUM EACH DIRECTION.
12. NOTIFY THE RDPRC PRIOR TO PLACING CONCRETE.
13. CHEMICAL ADMIXTURES SHALL CONFORM TO ASTM C494.
14. AIR-ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260.
15. NON-SHRINK GROUT: ASTM C1107, 5000 PSI MIN AT 7 DAYS.

SECTION 5 STEEL

1. GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16, TITLE 24 OF CALIFORNIA CODE OF REGULATIONS SECTION 2212A.1.2, AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF STEEL STRUCTURAL MEMBERS. A COPY OF TITLE 24 SHALL BE KEPT AT THE JOBSITE AT ALL TIMES.
   - A. FABRICATION AND ERECTION SHALL COMPLY WITH AISC 360-16 CHAPTER 'M' AND AISC 341-16 CHAPTER 'I'.
2. WELDING - ALL WELDING SHALL COMPLY WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY AND WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT. WELDING INSPECTION PER TITLE 24, PART 2, CCR, SECTIONS 1705A.2.5. WELDING ELECTRODES, IF UTILIZED, SHALL BE E70XX. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LBS AT ZERO DEGREES F AND COMPLYING WITH AWS D1.8-2022. SECTION 6.1.
3. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:
   - A. WIDE FLANGE BEAMS SHALL CONFORM TO ASTM A992, GRADE 50, TYP. U.N.O.
   - B. STRUCTURAL STEEL CHANNELS SHALL CONFORM TO ASTM A36 (36 KSI) TYP. U.N.O. WHERE DRAWINGS SPECIFY 50 KSI, CHANNELS SHALL CONFORM TO ASTM A572, GR. 50. NOTE: ASTM A572, GR. 50 MAY BE SUBSTITUTED FOR ASTM A36 (36 KSI).
   - C. PIPE COLUMNS SHALL CONFORM TO ASTM A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05% TYP. U.N,O.
   - D. STRUCTURAL STEEL TUBING (HSS) FOR STEEL MOMENT FRAME COLUMNS PER SHEET S5.0 SHALL CONFORM TO ASTM A1085. ALL OTHER STEEL TUBING (HSS) MAY CONFORM TO ASTM A500 GRADE B OR C OR ASTM A1085, TYP UNO.
   - E. STEEL PLATES, ANGLES, BARS AND MISC. SHAPES SHALL CONFORM TO ASTM A36 (36 KSI) TYP. U.N.O. WHERE DRAWINGS SPECIFY 50 KSI, STEEL SHALL CONFORM TO ASTM A572, GR. 50. NOTE: ASTM A572, GR. 50. MAY BE SUBSTITUTED FOR ASTM A36 (36 KSI).
4. ERECTION - STRUCTURAL STEEL ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.
5. NAILS, BOLTS, SCREWS AND NUTS, ETC. - FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.
   - A. BOLTS FOR STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR BOLTS THRU STEEL TO BE DRILLED, OR TORCHED PILOT HOLE AND REAMED TO DIAMETER OF BOLT +1/16" UNLESS OTHERWISE NOTED. NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER.
   - B. SEE "FASTENERS FOR ATTACHMENT TO STEEL" ON SHEET N2.0 FOR SHOT PINS & SCREWS.
6. HANDRAILS - FABRICATED, AS DETAILED, NON-FILLET WELDS GROUND SMOOTH.
7. SHOP PAINT
   - A. EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
   - B. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.
8. TESTS
   - A. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER TITLE-24 PART 2, CCR SECTION 1705A.2 & 2202A.

SECTION 6 CARPENTRY

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.
2. MATERIALS
   LUMBER GRADE 20 MARKED IN ACCORDANCE WITH AN APPROVED GRADING AGENCY PER DOC PS20-20 INCLUDING "STANDARD GRADING AND DRESSING RULES NO. 17" OF WEST COAST LUMBER INSPECTION BUREAU, OR "WESTERN LUMBER GRADING RULES", LATEST EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION. OSB OR PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-19, PS 2-20, OR PRP-108 FOR SOFTWOOD OSB OR PLYWOOD, OF THE AMERICAN PLYWOOD ASSOCIATION (APA). EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO. MOISTURE CONTENT SHALL NOT EXCEED 19%.
   - A. JOISTS, HEADERS, PLATES, STUDS: DOUGLAS FIR S4S #2 OR HEM FIR S4S #2 MINIMUM, U.N.O. NOTE: MSR 1650 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.
   - B. PSL HEADERS: TRUS JOIST PARALLAM PSL BY WEYERHAEUSER (ICC ESR-1387) OR EQUIV. MEETING THE FOLLOWING STRUCTURAL PROPERTIES:

BEAMS ≤ 7" DEEP & COLUMNS	BEAMS ≥ 9¼" DEEP
F_b = 2400 PSI MIN.	F_b = 2900 PSI MIN.
F_v = 190 PSI MIN.	F_v = 290 PSI MIN.
E = 1.8E6 PSI MIN.	E = 2.0E6 PSI MIN.

   - C. POSTS AND TIMBERS: DOUGLAS FIR S4S #1 OR HEM FIR S4S #1 MIN.
   - D. BLOCKING: DOUG FIR #3, OR HEM FIR #3, OR STD. & BET.
   - E. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE, MASONRY OR EARTH: DOUG FIR #2 OR HEM FIR #2 MIN. PRESSURE TREATED IN ACCORDANCE WITH CBC 2304.12.1. EACH PIECE SHALL BEAR AWPA STAMP. AWPA STANDARD U1 & T1 GROUND CONTACT, D.F. (OR H.F.) #2 ABOVE GROUND.
   - F. MOISTURE BARRIER: KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, CBC SECTION 1403.2. & ASTM D226, TYPE I.
   - G. STUDS - S4S DOUG FIR #2 OR #2 HEM FIR. MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF INSTALLATION.
   - H. FASTENERS - EXTERIOR USE FASTENERS EXPOSED TO THE OUTSIDE ENVIRONMENT (INCLUDING FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS) SHALL BE CORROSION RESISTANT IN ACCORDANCE WITH C.B.C. SECTION 2304.10.1.1.

CARPENTRY continued

   - I. BUILDING TRIM - 2x RESAWN SELECT D.F., H.F., OR CEDAR.
   - J. DOOR/WINDOW TRIM - 1x4 RESAWN D.F., H.F., OR CEDAR.
   - K. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED.
   - L. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 718.2
   - M. ALL NAILS SHALL BE COMMON NAILS PER ASTM F1667 UNLESS OTHERWISE NOTED.
   - N. ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPRINOL".
   - O. ALL BOLTS AND LAG SCREWS SHALL COMPLY WITH THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI\AWC NDS-2018).
   - P. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
   - Q. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER AND DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE 40% TO 70% OF THE SHANK DIAMETER.
   - R. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD.
3. WORKMANSHIP
   - A. FRAMING - SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
   - B. NAILING - IN ACCORDANCE WITH TITLE 24, CALIFORNIA BUILDING CODE, TABLE 2304.10.1.
   - C. EXTERIOR WALLS - FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY CLOSERS, SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
   - D. NAILS INTO P.T. LUMBER TO BE HOT DIPPED GALVANIZED.
   - E. MACHINE APPLIED NAILING: USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE RDPRC AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" OSB. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
   - F. MOISTURE BARRIER - APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.
   - G. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 7A SHEET METAL (NON-STRUCTURAL)

1. SCOPE OF WORK

   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.
2. MATERIALS
   - A. SHEET METAL - STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A653 MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.
   - B. SOLDER - OF STAND, GRADE "A" OF EQUAL PARTS, ARD BRAND, LEAD AND TIN ASTM B32.
   - C. FLUX - ZINC SATURATED MURIATIC ACID.
   - D. GUTTERS: 26 GA. G-90 GALV. STEEL
     DOWNSPOUTS: 2"x3" CONVOLUTED 30 GA. G-90 GALV. STEEL
     GUTTER ENDCAPS: 26 GA. G-90 GALV. STEEL
     GUTTER CLIPS: 18 GA. G-90 GALV. STEEL
     FLASHING: 22 GA. G-90 GALV. STEEL U.O.N.
   - E. FASTENERS:
     SELF-DRILLING OR SELF-TAPPING SHEET METAL SCREWS.
     LENGTH TO HAVE (3) EXPOSED THREADS MIN.
3. WORKMANSHIP
   SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT OF ASPHALTIC PAINT.

SECTION 7B METAL ROOFING

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING.
2. MATERIALS
   - A. ROOF SHALL BE CONSTRUCTED OF 3" STANDING SEAM INTERLOCKING (UN-PENETRATED) STEEL SHEETS.
   - B. PROPERTIES INCLUDING THICKNESS SHALL BE PER SHEET S0.0.
   - C. BASE MATERIAL SHALL BE EITHER ASTM A1011 SS, GRADE 36 (Fy = 36 KSI) OR ASTM A653 SS, GRADE 37 (Fy = 37 KSI) AND SHALL BE GALVANIZED WITH G90 GALVANIZATION.
   - D. SHEETS MAY BE PAINTED.
   - E. CLASS B FIRE RATED.
   - F. CLIP ANGLES SHALL BE HOT-DIPPED GALVANIZED.
   - G. FASTENERS SHALL BE EXTERIOR USE SCREWS WITH A CORROSION PROTECTIVE COATING PER THE "FASTENERS FOR ATTACHMENT TO STEEL" SECTION ON SHEET N2.0. ALL SCREWS USED FOR METAL ROOFING ATTACHMENT SHALL HAVE A NEOPRENE OR EPDM WASHER.

SECTION 7C SEALANT

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO SEAL BUILDINGS.
2. MATERIALS
   VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS. "GEOCEL" SILICONIZED CAULK, GE, DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS, OR EQUAL.
   - A. SEALANT V.O.C. LIMITS PER SCAQMD RULE 1168 (AS SHOWN IN TITLE 24, PART 11, TABLE 5.504.4.1 AND TABLE 5.504.4.2)
3. WORKMANSHIP
   SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SECTION 7D SINGLE-PLY ROOFING

~~1. SCOPE OF WORK~~
~~CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO INSTALL SINGLY-PLY OR BUILT-UP ROOFING. THE ROOFING SYSTEM SHALL WITHSTAND THE UPLIFT OF 100 MPH BASIC WIND SPEED.~~
~~2. MATERIALS~~
~~MEMBRANE: PVC FILM LAMINATED TO BOTH SIDES OF A REINFORCEMENT FABRIC, OR EQUIV. - PROPRIETARY THERMOPLASTIC PVC FORMULATION OF RESINS, PLASTICIZERS, STABILIZERS, BIOCIDES, FLAME RETARDANTS, AND U.V. ABSORBENTS. CLASS B FIRE RATING.~~
~~A. WOOD NAILERS MUST BE A #2 GRADE LUMBER, OR EQUIVALENT, TO SUBSTRATE.~~
~~3. WORKMANSHIP~~
~~MEMBRANE APPLIED ON SUBSTRATES THAT ARE DRY, CLEAN, AND FREE OF FINS, SHARP EDGES AND LOOSE, FOREIGN MATERIALS, WHEREVER INDICATED ON DETAILS. AN INSULATION OR SLIP SHEET HAVING AN APPROVED FACER MUST BE USED WHEN ROOFING OVER ASPHALT OR COAL TAR ROOFS.~~

SINGLE-PLY ROOFING continued

~~4. TESTING:~~
~~A. MEMBRANE SHALL BE DESIGNED TO PERFORM IN ALL TYPES OF WEATHER AND SHALL COMPLY TO ASTM D-2136 TESTING METHODS.~~
~~B. MEMBRANE SHALL BE DESIGNED IN ACCORDANCE TO ASTM D-4434 "STANDARD SPECIFICATIONS FOR POLY (VINYL CHLORIDE) SHEET ROOFING" AND BE CLASSIFIED AS A TYPE IV, INTERNALLY REINFORCED SHEET.~~

SECTION 8 HOLLOW METAL DOORS AND FRAMES

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.
2. MATERIALS
   - A. DOORS - INSULATED TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY, 18 GA. 1-3/4" THICK PER CS242 MIN, REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.
   - B. FRAMES - 16 GA COLD ROLLED, 2" FACES, CS242 MIN. 3 ANCHORS PER JAMB + ADJUSTABLE FLOOR ANCHOR, EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX, PROVIDE SOUND DEADENING: 1/8" UNDERCOATING OR INSULATING FILL.
3. WORKMANSHIP
   ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING, WITH ARISES AND EDGES STRAIGHT, SHARP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP, WAVE, BUCKLE OR OTHER DEFECTS AFTER FABRICATION, DOORS AND FRAMES CLEANED THOROUGHLY, ALL WELDS GROUND SMOOTH AND GIVEN PRIME COAT.

SECTION 9A STUCCO (EXTERIOR PORTLAND CEMENT PLASTER)

LATHING AND PLASTERING MATERIALS AND ACCESSORIES SHALL BE MARKED BY THE MANUFACTURER'S DESIGNATION TO INDICATE COMPLIANCE WITH THE APPROPRIATE STANDARDS REFERENCED IN THIS SECTION AND STORED IN SUCH A MANNER TO PROTECT THEM FROM THE WEATHER, PER C.B.C 2507.1.

LATHING AND PLASTERING MATERIALS SHALL CONFORM TO THE STANDARDS LISTED IN C.B.C. TABLE 2507.2 AND CHAPTER 35, AND, WHERE REQUIRED FOR FIRE PROTECTION, SHALL ALSO CONFORM TO THE PROVISIONS OF CHAPTER 7.

GYPSUM BOARD AND GYPSUM PLASTER CONSTRUCTION SHALL BE OF THE MATERIALS LISTED IN C.B.C. TABLES 2506.2 AND 2507.2. THESE MATERIALS SHALL BE ASSEMBLED AND INSTALLED IN COMPLIANCE WITH THE APPROPRIATE STANDARDS LISTED IN TABLES 2508.1 AND 2511.1, AND CHAPTER 35 (PER 2508.1).

WATER-RESISTIVE BARRIERS SHALL BE IN ACCORDANCE WITH C.B.C. SECTION 2510.6. WATER-RESISTIVE BARRIERS SHALL BE INSTALLED AS REQUIRED PER SECTION 1404.2, AND WHERE APPLIED OVER WOOD-BASED SHEATHING, SHALL INCLUDE A WATER-RESISTIVE VAPOR-PERMEABLE BARRIER WITH A PERFORMANCE AT LEAST EQUIVALENT TO TWO LAYERS OF GRADE D PAPER.

EXCEPTION: WHERE THE WATER-RESISTIVE BARRIER THAT IS APPLIED OVER WOOD-BASED SHEATHING HAS A WATER RESISTANCE EQUAL TO OR GREATER THAN THAT 60-MINUTE GRADE D PAPER COMPLYING WITH ASTM E 2556, TYPE II AND IS SEPARATED FROM THE STUCCO BY AN INTERVENING, SUBSTANTIALLY NONWATER-ABSORBING LAYER OR DRAINAGE SPACE.

1. PLASTER NOTES: PLASTERING WITH CEMENT PLASTER SHALL NOT BE LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH OR WIRE FABRIC LATH AND SHALL NOT BE LESS THAN TWO COATS WHEN APPLIED OVER MASONRY CONCRETE OR GYPSUM BACKING AS SPECIFIED IN SECTION 2510.5.
   - A. THE FIRST COAT SHALL BE MIN. 3/8" THICK & APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO FILL SOLIDLY ALL OPENINGS IN THE LATH. THE SURFACE SHALL BE SCORED HORIZONTALLY SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND TO RECEIVE THE SECOND COAT.
   - B. THE SECOND COAT SHALL BE BROUGHT OUT TO MIN. 3/8" THICKNESS, RODDED AND FLOATED SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND FOR THE FINISH COAT. THE SECOND COAT SHALL HAVE NO VARIATION GREATER TO THAN 1/4 INCH (6.4 mm) IN ANY DIRECTION UNDER 5-FOOT STRAIGHT EDGE.
   - C. THE FINISH COATS SHALL BE MIN. 1/8" THICK & APPLIED OVER BASE COATS THAT HAVE BEEN IN PLACE FOR THE TIME PERIODS SET FORTH IN ASTM C 926. THE THIRD OR FINISH COAT SHALL BE APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO BOND TO AND TO COVER THE BROWN COAT AND SHALL BE OF SUFFICIENT THICKNESS TO CONCEAL THE BROWN COAT.

SECTION 9B PAINTS & COATINGS

1. SCOPE OF WORK.
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.
2. MATERIALS
   - A. FOR EXTERIOR WOOD:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	42-9M	1240	Y24W20	289-N
FINISH	QD-60-XX	1240-XXX	B54WZ102	GE2-NXX

   - B. FOR INTERIOR TRIM:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
FINISH	W450-XX	1650-XXX	A26W11	40XX

   - C. FOR METAL:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	43-4	1710	B50NZ6	15N
FINISH	10-XX	1700-XXX	B54WZ102	GE2-NXX

   - D. INTERIOR PAINT & COATINGS SHALL COMPLY WITH TITLE 24, PART 11, "CAL-GREEN" SECTION 5.504.4.3, AND V.O.C. LIMITS PER TABLE 5.504.4.3.
3. WORKMANSHIP
   ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS AND METAL ROOFING. MATERIAL SHALL BE OF THE GRADE SPECIFIED OR EQUAL.
   - A. EXTERIOR WOOD SIDING, TRIM AND SKIRTING - FLAT OR SEMI-GLOSS LATEX. APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING. IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.
   - B. INTERIOR TRIM - TRIM NOT PRE-COATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.
   - C. INTERIOR HARDWOOD CABINETS - TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.
   - D. METAL - ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER.
   - E. RAMP - ONE COAT OF FERROX NON-SLIP (0.8 MIN. C.O.F.) SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST, OR EQUAL.
   - F. SUBMIT ONE SET OF COLOR SAMPLES TO THE RDPRC FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 9C INTERIOR AIR QUALITY CONTROL

THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"):

1. ADHESIVES, SEALANTS, CAULKS — SECTION 5.504.4.1
2. PAINTS, COATINGS — SECTION 5.504.4.3
3. AEROSOL PAINTS & COATINGS — SECTION 5.504.4.3.1
4. CARPET SYSTEMS — SECTION 5.504.4.4
   - A. CARPET SHALL MEET CRI'S "GREEN LABEL PLUS" PROGRAM, NSF/ANSI '140 GOLD' LEVEL, OR OTHER APPROVED TESTING PER 5.504.4.4.
5. CARPET CUSHION OR PAD — SECTION 5.504.4.4.1
   - A. CUSHION/PAD SHALL MEET THE CRI'S "GREEN LABEL" PROGRAM.
6. CARPET ADHESIVE — SECTION 5.504.4.4.2
   - A. ADHESIVES SHALL MEET THE REQUIREMENTS OF TABLE 5.504.4.1.
7. COMPOSITE WOOD PRODUCTS — SECTION 5.504.4.5
   - A. ALL COMPOSITE WOODS MUST NOT EXCEED THE FORMALDEHYDE LIMITS AS SPECIFIED IN ARB'S "AIR TOXICS CONTROL MEASURE" (17 CCR 93120), OR NON-EXEMPT MATERIALS PER TABLE 5.504.4.5.
8. RESILIENT FLOORING SYSTEMS — SECTION 5.504.4.6
   - A. RESILIENT FLOORING SHALL BE CERTIFIED UNDER THE "FLOORSCORE" PROGRAM BY RFCI, COMPLY WITH CA-CHPS, OR OTHER APPROVED TESTING PER 5.504.4.6.
9. HVAC FILTER (MERV RATING OF 13 AND MINIMUM 2-INCH DEPTH) SECTION 5.504.5.3.1
   - A. SEE SHEET M1.7 FOR HVAC FILTER REQUIREMENTS

SECTION 13 SITE ASSEMBLY

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT. UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ASSEMBLY OF ELEMENTS
   - A. IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT, (APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.
   - B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.
   - C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

SECTION 23 AIR CONDITIONING

1. SCOPE OF WORK (SEE SHEET M1.7 FOR HVAC SPEC. AND NOTES)
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.
2. EQUIPMENT
   SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.
3. WORKMANSHIP
   UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 26 ELECTRICAL

1. SCOPE OF WORK
   - A. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT, EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVACS).
   - B. PROVIDE CONDUIT WITH PULL STRINGS AND JUNCTION BOXES FOR AUTOMATIC DETECTION FIRE ALARM SYSTEM AND NOTIFICATION PER NFPA 72.
2. MATERIALS
   ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRIC CODE.
   - A. ELECTRIC METALLIC TUBING - COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARDIZED. EXTERIOR FLEX-GALV. STEEL WITH FACTORY APPLIED P.V.C. JACKET.
   - B. PANEL BOARDS - FLUSH MOUNTED.
   - C. CONDUCTORS - COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE-#14.
   - D. RECEPTACLES - AS NOTED. +18" A.F.F. MIN. TO BOTTOM OF BOX
   - E. CLOCK RECEPTACLE - AS NOTED.
   - F. SWITCHES - AS NOTED. +48" A.F.F. MAX. TO TOP OF BOX
   - G. LIGHTING FIXTURES - AS NOTED ON THE DRAWINGS.
3. WORKMANSHIP
   MATERIALS AND EQUIPMENT INSTALLED IN A SECURE, NEAT, WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANEL BOARD CARDS SHALL BE FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION. BUILDING CONDUIT/WIRING FROM FACE OF BUILDING TO SITE TERMINATION BY SITE CONTRACTOR (N.I.C.). (FLEXIBLE CONDUIT S-BEND SEALTITE).

INSPECTION

INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS:

1. IN-PLANT INSPECTION.
2. ON-SITE INSPECTION.

THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN-PLANT INSPECTOR APPROVED BY D.S.A.

IN-PLANT INSPECTION AND MATERIAL TESTING SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ARCHITECT, DSA, AND THE DESIGNATED INSPECTOR/INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE MANUFACTURER SHALL PROVIDE THE INSPECTOR WITH FULL ACCESS TO ALL PLANT OPERATIONS INVOLVING WORK UNDER THIS CONTRACT AND SHALL ADVISE THE INSPECTOR IN ADVANCE OF THE TIME AND PLACE OF OPERATIONS THAT THE INSPECTOR WANTS TO OBSERVE TAKE PLACE. BEFORE THE BUILDING(S) ARE REMOVED FROM THE PLANT FOR DELIVERY TO THE STORAGE FACILITY, OR FROM THE STORAGE FACILITY TO THE SITE, THE INSPECTOR SHALL DETERMINE THAT THEY ARE ACCEPTABLE AND ISSUE A WRITTEN RELEASE WHICH SHALL BE IN THE FORM OF A VERIFIED REPORT (FORM DSA 152-IPI).

A COPY OF THE INSPECTOR'S VERIFIED REPORT SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE. THE INSPECTOR SHALL PUT ONE COPY IN EACH BUILDING.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

AMS
American Modular Systems
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PRE-CHECKED SET NAME:

12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ 2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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

REVISIONS
△1
△2
△3
△4

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

SHEET TITLE:
GENERAL NOTES & SPECIFICATIONS

SHEET NUMBER:
N1.0

☒ DEFAULT CONCRETE MIX DESIGN REQUIREMENTS FOR BELOW GRADE NORMAL WEIGHT CONCRETE (1)

BELOW GRADE CONCRETE ELEMENT	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (f'_c) (PSI)	CEMENTITIOUS MATERIALS (CEMENT TYPE PER ASTM C150)	TARGET AIR CONTENT (%)		
				MAX AGGREGATE SIZE (IN)	☐ CONCRETE NOT EXPOSED TO FREEZING-AND-THAWING CYCLES	☐ CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES
FOUNDATIONS (2)	0.45	4500	V	1" ± ¼"	N/A	6
FOUNDATION VENTS & ACCESS WELLS	0.45	4500	V	3/8"	N/A	7.5
				1/2"	N/A	7
				1" ± ¼"	N/A	6

(1) PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-19, SECTION 26.4.3.
DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-19, SECTION 26.4.4.
CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1.
SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.

(2) FOUNDATIONS CONSERVATIVELY DESIGNED FOR A MIMINUM 28-DAY CONCRETE STRENGTH OF 3,500 PSI.

☐ OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS FOR BELOW GRADE NORMAL WEIGHT CONCRETE (1)

(MOST RESTRICTIVE REQUIREMENTS FROM EXPOSURE TABLES BELOW)

BELOW GRADE CONCRETE ELEMENT	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (f'_c) (PSI)	CEMENTITIOUS MATERIALS (CEMENT TYPE PER ASTM C150)	MAX AGGREGATE SIZE (IN)	TARGET AIR CONTENT (%)	MAXIMUM WATER-SOLUBLE CHLORIDE ION (Cl-) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT
FOUNDATIONS (2)				1" ± ¼"		
FOUNDATION VENTS & ACCESS WELLS				3/8"		
				1/2"		
				1" ± ¼"		

(1) PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-19, SECTION 26.4.3.
DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4.
CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1.
SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.

(2) FOUNDATIONS HAVE BEEN DESIGNED FOR THE WORST CASE MIMINUM 28-DAY CONCRETE STRENGTH OF 3,500 PSI.

EXPOSURE CATEGORY: FREEZING & THAWING (F)

(ACI 318-19, SECTION 19.3)

EXPOSURE CLASS (1)		CONDITION	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (f'_c) (PSI)		AIR CONTENT	
				FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	MAX AGGREGATE SIZE (IN) (2)	TARGET AIR CONTENT (%)
☐	F0	CONCRETE NOT EXPOSED TO FREEZING-AND-THAWING CYCLES	0.55	3500	3000	N/A	
☐	F1	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH LIMITED EXPOSURE TO WATER	0.55	3500	3500	3/8 1/2 3/4 1 1½	6 5.5 5 4.5 4.5
☐	F2	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER	0.45	4500	4500	3/8 1/2 3/4 1 1½	7.5 7 6 6 5.5
☐	F3	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER AND EXPOSURE TO DEICING CHEMICALS	0.40	5000	5000		

(1) IF EXPOSURE CLASS IS UNCERTAIN, F2 MAY BE ASSUMED.

(2) SEE CONCRETE NOTES ON SHEET N1.0 FOR MAX AGGREGATE SIZES.

EXPOSURE CATEGORY: SULFATE (S)

(ACI 318-19, SECTION 19.3)

EXPOSURE CLASS (1)		CONDITION		MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (f'_c) (PSI)		CEMENTITIOUS MATERIALS (CEMENT TYPE PER ASTM C150)
		WATER-SOLUBLE SULFATE (SO_4^{2-}) IN SOIL, PERCENT BY MASS (2)	DISSOLVED SULFATE (SO_4^{2-}) IN WATER, PPM (3)		FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	
☐	S0	$SO_4^{2-} < 0.10$	$SO_4^{2-} < 150$	0.55	3500	3000	I OR II
☐	S1	$0.10 \le SO_4^{2-} < 0.20$	$150 \le SO_4^{2-} < 1500$ OR SEAWATER	0.50	4000	4000	II
☐	S2	$0.20 \le SO_4^{2-} \le 2.00$	$1500 \le SO_4^{2-} \le 10{,}000$	0.45	4500	4500	V
☐	S3	$SO_4^{2-} > 2.00$	$SO_4^{2-} > 10{,}000$	0.45	4500	4500	V PLUS FLYASH OR SLAG CEMENT (4)

(1) IF EXPOSURE CLASS IS UNKNOWN, S2 MAY BE ASSUMED.

(2) PERCENT SULFATE BY MASS IN SOIL SHALL BE DETERMINED BY ASTM C1580.

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

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

EXPOSURE CATEGORY: IN CONTACT WITH WATER (W)

(ACI 318-19, SECTION 19.3)

EXPOSURE CLASS		CONDITION	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (f'_c) (PSI)		ADDITIONAL REQUIREMENTS
				FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	
☐	W0	CONCRETE DRY IN SERVICE OR CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS NOT REQUIRED	0.55	3500	3000	NONE
☐	W1 (1)	CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS REQUIRED	0.50	4000	4000	NONE

(1) EXPOSURE CLASS W1 IS ONLY REQUIRED IF CONCRETE IS BELOW THE GROUNDWATER TABLE.

EXPOSURE CATEGORY: CORROSION PROTECTION OF REINFORCEMENT (C)

(ACI 318-19, SECTION 19.3)

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

SHEET NOTES:
1. THE DEFAULT CONCRETE MIX DESIGN REQUIREMENTS MAY BE SELECTED AND USED TO DETERMINE THE CONCRETE MIX REQUIREMENTS FOR ANY SITE PER DSA IR PC-2 SECTION 5.5 OR PC-6 SECTION 5.5.
2. THE DEFAULT CONCRETE MIX DESIGN REQUIREMENTS MAY BE SELECTED REGARDLESS OF WHETHER A SITE SPECIFIC GEOTECHNICAL REPORT EXISTS FOR THE SITE.
3. IF THE SITE CONDITIONS FOR THE SOIL ARE KNOWN AS REPORTED BY A GEOTECHNICAL OR OTHER APPROVED SOIL CONDITIONS REPORT, THE OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS MAY BE UTILIZED.
4. IF THE OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS ARE UTILIZED, THE REPORT MUST BE REFERENCED ON THE COVER SHEET OF THIS DRAWING PACKAGE.

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DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

FORM

SITE SPECIFIC PROJECT NAME
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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122042 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/15/2024

☐ 2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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

SHEET TITLE:
BELOW GRADE CONCRETE MIX DESIGN REQUIREMENTS

SHEET NUMBER:
N1.0A

COORDINATION OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT, IF NECESSARY. THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF ANY MODULE. ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

MATERIALS AND WORKMANSHIP

1. ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.
2. ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE RDPRC THAT SUCH IS THE CASE.
3. CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.
4. WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS

1. ONE (1) MODULE, APPROXIMATELY 12' x 40', DESIGNED TO STAND ALONE OR COMBINED WITH TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF, AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.
2. EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH (2) IMPRINTED (STAMPED, NOT ENGRAVED) METAL IDENTIFICATION TAGS 3"x1-1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:
    - A. MANUFACTURER'S NAME AND BUILDING SERIAL NUMBER.
    - B. DESIGN WIND SPEED / EXPOSURE
    - C. DESIGN SEISMIC S_{DS} VALUE
    - D. DESIGN ROOF LIVE LOAD
    - E. DESIGN FLOOR LIVE LOAD
    - F. D.S.A. APPLICATION NUMBER
3. 2-TAGS PER MODULE: ONE ON EXTERIOR, AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.
4. EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.
5. EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE RDPRC, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.
6. FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

GENERAL NOTES

IT IS THE RESPONSIBILITY OF THE AOR & EOR TO ENSURE THAT ALL SPECIFICATIONS MEET THE MINIMUM REQUIREMENTS OF THE CURRENT EDITIONS OF THE CALIFORNIA STATE TITLES 19 AND 24. APPROVAL OF THESE SPECIFICATIONS DOES NOT CONSTITUTE APPROVAL FOR WAVIER OR ANY REQUIREMENTS OF THOSE REGULATIONS.

MARKERBOARD SPECIFICATIONS

MARKERBOARDS SHALL BE 24 GA. PORCELAIN STEEL FACING SHEET SUITABLE TO ACCEPT DRY ERASE FELT MARKERS. THE FACING SHEET SHALL BE LAMINATED TO PARTICLE BOARD SUBSTRATE WITH A MINIMUM DENSITY OF 45lbs./cu.ft. THE PANEL SHALL HAVE A FOIL BACKING. THE PANELS SHALL HAVE EXTRUDED ALUMINUM MOLDING AND CHALKRAIL WITH A MINIMUM OF 2 15/16" PROJECTION FROM THE FACE OF PANEL. THREE MAP HOOKS WITH CLIPS PER PANEL SHALL BE PROVIDED. ONE FLAG HOLDER, 1/2" SIZE, SHALL BE PROVIDED FOR EACH CLASSROOM. EACH CLASSROOM SHALL HAVE 2 EACH 4'x8' PANELS INSTALLED SIDE BY SIDE TO MAKE A 4'x16' PANEL, CENTERED ON THE WALL.

FOR ANCHORAGE DETAIL, SEE DETAIL 8/A4.0.

REFERENCE BRANDS: CHATFIELD-CLARKE Co, Inc. SERIES 500 OR NELSON ADAMS Co. NACO SERIES 60.

GENERAL NOTE

IT IS THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL ON RECORD TO ENSURE THAT ALL SPECIFICATIONS MEET THE MINIMUM REQUIREMENTS OF THE CURRENT EDITION S OF THE CALIFORNIA STATE TITLES 19 AND 24. APPROVAL OF THESE SPECIFICATIONS DOES NOT CONSTITUTE APPROVAL FOR WAIVER OR ANY REQUIREMENTS OF THOSE REGULATIONS.

INTERIOR

1. FLOOR COVERING: PER CBC SECTION 804, COMPLY WITH NFPA 253 CLASS I OR II. COMPLY WITH ASTM E 648 FOR SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450. IN EXIT PASSAGEWAYS OR CORRIDORS, THE MINIMUM CRITICAL RADIANT FLUX (CBC 804.4.2) SHALL NOT BE LESS THAN CLASS II. (CARPET SHALL BE SECURELY ATTACHED, HAVE FIRM CUSHION, PAD OR BACKING, OR NONE AT ALL. PILE YARN SHALL BE BRANDED NYLON AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL-CUT PILE OR LEVEL-CUT/UNCUT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2" INCH. NO CROSS SEAMS SHALL BE ALLOWED. THE CARPET DENSITY SHALL BE 4600 MINIMUM. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 11B-303. COLOR TO BE SELECTED BY THE RDPRC OR OWNER.)
2. BASE: RESILIENT COVE BASE - BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH MOULDED TOP SET COVE. PROVIDE PREFORMED BASE FOR SQUARE EXTERNAL CORNERS AND PREFORMED END STOPS WHERE BASE DOES NOT ABUT. SOLID COLOR AS MANUFACTURE BY "JOHNSONITE CO.", FLEXCO, OR EQUAL. APPLY COVE TO COMPLETE PERIMETER OF CLASSROOM.
3. INTERIOR WALLS SHALL BE VINYL COVERED TACKBOARD (U.O.N.) APPLIED IN ONE CONTINUOUS LENGTH FROM FLOOR TO CEILING. THE TACKBOARD SHALL BE INDUSTRIAL INSULATION BOARD MANUFACTURED SPECIFICALLY AS A SUBSTITUTE FOR VINYL COVERED WALL PANELS. THE BOARD SHALL BE ASPHALT FREE, SHALL HAVE AN IRONED-ON COATING AND SHALL HAVE A MINIMUM DENSITY OF 18 LBS. PER FOOT. THE VINYL COATING SHALL BE MADE OF VIRGIN VINYL CALENDERED BASE COLOR, WEIGHING A MINIMUM OF 8 OZ. PER SQUARE YARD. THE COATING BACKING SHALL BE SHEETING OR NON-WOVEN FABRIC. THE VINYL COATING SHALL BE MECHANICALLY LAMINATED, WITH THE LONG EDGES WRAPPED, TO THE TACKBOARD. TACKBOARD SHALL BE APPLIED OVER 1/2" SHEETROCK OR OSB SHEATHING. THE VINYL WALL COVERED PANEL SHALL HAVE A CLASS 'C' RATING (PER ASTM E 84 OR UL 723). FLAME SPREAD/SMOKE DEVELOPED INDEX MAXIMUMS PER NOTE #6 BELOW. THE PANEL SHALL BE APPROVED FOR CLASSROOM USE BY THE CALIFORNIA STATE FIRE MARSHAL. REFERENCE BRAND: VINYL COVERED TACKBOARD AS MANUFACTURED BY CHATFIELD-CLARKE OR COMPARABLE. CARE SHALL BE TAKEN IN MOUNTING THE TACKBOARD SO THAT THE TEXTURE OF ALL PANELS WILL HAVE THE SAME ORIENTATION AND COLOR MATCH. TACKBOARD FLAME SPREAD: 126.6 & SMOKE DEVELOPMENT: 45
4. CEILING: SUSPENDED T-BAR SYSTEM, SEE SHEET M1.4 FOR DETAILS, MATERIALS AND INSTALLATION PER ASTM C635, ASTM C636, ASTM E580, AND DSA-IR 25-2.13 AS APPLICABLE TO CLASSROOMS. PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS, SQUARE EDGE, LIGHT REFLECTION 75% MINIMUM. NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. ASTM E 84 TESTED, RATED CLASS 'C': FLAME SPREAD INDEX NOT TO EXCEED 200, SMOKE DEVELOPED INDEX RATING NOT TO EXCEED 450.
5. THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4. (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")
6. FLAME SPREAD/SMOKE-DEVELOPED INDEX (TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, PER CBC 803.1.1):

    WALL FINISH MATERIAL (CLASS 'C')
    FLAME SPREAD MAX = 200
    SMOKE DEVELOPED MAX = 450

    PIPE INSULATION (CLASS 'A')
    FLAME SPREAD MAX = 25
    SMOKE DEVELOPED MAX = 450

    BUILDING INSULATION (CLASS 'A')
    FLAME SPREAD MAX = 25
    SMOKE DEVELOPED MAX = 450

    DUCT INSULATION (CLASS 'A')
    FLAME SPREAD MAX = 25
    SMOKE DEVELOPED MAX = 50

7. TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP. OR EQUIVALENT w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE DEVELOPMENT RATING: 450. (BY OTHERS)
8. INTERIOR VENTILATION: EAVE VENTS AND ATTIC VENTS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF NOT LESS THAN 1/16" AND NOT MORE THAN 1/4" INCH, PER C.B.C. SECTION 1202.2.2.

DOORS & WINDOWS

1. EXTERIOR DOORS: METAL DOORS - 3'-0"x7'-0" HOLLOW METAL DOOR CONSTRUCTION OF 1 SHEET OF 18 GA. GRADE II STEEL ASSEMBLED PER CS242 MINIMUM, AND REINFORCED WITH 20 GA. MINIMUM. FILL DOOR SPACES WITH MINERAL WOOL OR OTHER INSULATION. (REINFORCE BOTH FACES FOR CLOSURE.) PROVIDE FLUSH TOP ON DOORS. HARDWARE REINFORCEMENT SHALL BE 10 GA. MIN FOR HINGES, DOOR FRAME SHALL BE 16 GA. PRESSED STEEL FRAME ASTM A366 & C5242. HARDWARE REINFORCEMENT SHALL BE 10 GA. PLATE. FRAMES SHALL BE DESIGNED WITH INTEGRAL STOP AND TRIM. PROVIDE (3) ANCHORS PER JAMB PLUS ADJUSTABLE FLOOR ANCHOR. ROOMS WITH AN OCCUPANT LOAD OF FIVE OR MORE SHALL HAVE DOOR HARDWARE CAPABLE OF BEING LOCKED FROM THE INSIDE (PER CBC 1010.1.11).
2. EXTERIOR WINDOWS: PROVIDE ANODIZED ALUMINUM FRAME 5/8" MINIMUM DUAL PANE WINDOW UNITS, AS SHOWN ON FLOOR PLANS. THE 5/8" DIMENSION IS THE MINIMUM THICKNESS FOR THE DUAL GLAZED WINDOW PANEL CONSISTING OF TWO LITES OF GLASS AND THE AIR SPACE.
3. GLAZING MATERIAL SHALL BE: EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS - 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM. INTERIOR LITE - 1/8" MINIMUM CLEAR TEMPERED. MINIMUM AIR SPACE SHALL BE 1/4" SPACE - BENT OR SEALED CORNER ALUMINUM WITH DESICCANT FILL SEALER - BUTYL PRIMARY SEAL AND POLYSULFIDE OR SILICONE SECONDARY SEAL. CERTIFICATION - ALL GLAZING TO BE CERTIFIED IN ACCORDANCE WITH ASTM E-773, E-774.
4. HEADER HEIGHT SHALL BE THE SAME AS THE DOOR. ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS. WINDOWS SHALL NOT BE MOUNTED TO THE EXTERIOR OSB SURFACE. ALL WINDOWS SHALL MEET THE AAMA GS101-88 VOLUNTARY SPEC. FOR ALUMINUM PRIME WINDOWS AND SLIDING GLASS (ANS1), COMMERCIAL GRADE.
5. WINDOWS TO MATCH WHAT IS REQUIRED BY ENERGY REPORT. IF WINDOWS MUST BE NFRC RATED THAN NFRC LABELS SHALL BE LEFT ON THE WINDOWS FOR THE INSPECTOR TO VERIFY.

MECHANICAL EQUIPMENT PROTECTION

1. ALL MECHANICAL EQUIPMENT SHALL BE THOROUGLY CLEANED PROGRESSIVELY DURING CONSTRUCTION AND COMPLETION OF THE JOB. ALL OPEN ENDS OF DUCTWORK AND EQUIPMENT SHALL BE COVERED AT END OF EACH WORK DAY AND DURING SHIPMENT OF RELOCATABLE BUILDINGS

FOUNDATION CLEARANCES FROM SLOPES

CBC 1808A.7.1 BUILDING CLEARANCE FROM ASCENDING SLOPES. IN GENERAL, BUILDINGS BELOW SLOPES SHALL BE SET A SUFFICIENT DISTANCE FROM THE SLOPE TO PROVIDE PROTECTION FROM SLOPE DRAINAGE, EROSION AND SHALLOW FAILURES. EXCEPT AS PROVIDED IN SECTION CBC 1808A.7.5 AND FIGURE CBC 1808A.7.1, THE FOLLOWING CRITERIA WILL BE ASSUMED TO PROVIDE THIS PROTECTION. WHERE THE EXISTING SLOPE IS STEEPER THAN ONE UNIT VERTICAL IN ONE UNIT HORIZONTAL (100-PERCENT SLOPE), THE TOE OF THE SLOPE SHALL BE ASSUMED TO BE AT THE INTERSECTION OF A HORIZONTAL PLANE DRAWN FORM THE TOP OF THE FOUNDATION AND A PLANE DRAWN TANGENT TO THE SLOPE AT AN ANGLE OF 45 DEGREES (0.79 RAD) TO THE HORIZONTAL. WHERE A RETAINING WALL IS CONSTRUCTED AT THE TOE OF THE SLOPE, THE HEIGHT OF THE SLOPE SHALL BE MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE SLOPE.

CBC 1808A.7.2 FOUNDATION SETBACK FROM DESCENDING SLOPE SURFACE. FOUNDATIONS ON OR ADJACENT TO SLOPE SURFACES SHALL BE FOUNDED IN FIRM MATERIAL WITH AN EMBEDMENT AND SET BACK FROM THE SLOPE SURFACE SUFFICIENT TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE FOUNDATION WITHOUT DETRIMENTAL SETTLEMENT. EXCEPT AS PROVIDED FOR IN SECTION CBC 1808A.7.5 AND FIGURE CBC 1808A.7.1, THE FOLLOWING SETBACK IS DEEMED ADEQUATE TO MEET THE CRITERIA. WHERE THE SLOPE IS STEEPER THAN 1 UNIT VERTICAL IN 1 UNIT HORIZONTAL 100-PERCENT SLOPE), THE REQUIRED SETBACK SHALL BE MEASURED FROM AN IMAGINARY PLANE 45 DEGREES (0.79 RAD) TO THE HORIZONTAL, PROJECTED UPWARD FROM THE TOE OF THE SLOPE.

FIRE EXTINGUISHER

1. EACH CLASSROOM SHALL BE EQUIPPED WITH PRESSURE TYPE FIRE EXTINGUISHERS WITH 2A10BC UL RATING. MOUNT ON THE INTERIOR WALL OF THE BUILDING NEAR THE DOORWAY(S) AT A MAXIMUM HEIGHT OF 4 FEET TO THE TOP OF THE OPERATING HANDLE, AND THE BOTTOM OF F.E. MOUNTED 27" OR LESS A.F.F. FIRE EXTINGUISHERS SHALL BE TOTALLY CHARGED AND HAVE A DIAL INDICATING THE STATE OF CHARGE.

ACCESSIBILITY STANDARDS

REFERENCE: 2022 CALIFORNIA BUILDING CODE (TITLE 24, PART 2, CCR), CHAPTER 11B "ACCESSIBILITY TO PUBLIC..."

SECTION 11B-206.2 BUILDING ACCESSIBILITY, GENERAL
1. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL BUILDINGS, ELEMENTS, AND AREAS, AND EACH FLOOR INCLUDING MEZZANINES.

SECTION 11B-216 SIGNAGE
(ALSO REFER TO SECTIONS 11B-703, 1009.9, 1009.10, 1023.9)
SIGNAGE IS REQUIRED:
1. TO IDENTIFY PERMANENT ROOMS & SPACES
2. TO PROVIDE DIRECTIONS AND INFORMATION ABOUT SPACES & FACILITIES
3. TO IDENTIFY MEANS OF EGRESS
    - A. AREAS OF REFUGE AND AREA FOR ASSISTED RESCUE (PER 1009.9 AND 1009.11)
    - B. DIRECTIONS TO AN EXIT (PER 1009.10)
    - C. DELAYED EGRESS LOCKS (PER 1010.1.9.7 ITEM 6)
    - D. EXIT WAYS (PER 1013.4)
        - AT EACH GRADE LEVEL EXTERIOR EXIT DOOR
        - AT AN EXIT BY MEANS OF A STAIRWAY OR RAMP ("EXIT STAIR DOWN" OR "EXIT RAMP DOWN")
        - AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGEWAY, CORRIDOR, HALLWAY, ETC.
        - OTHER HORIZONTAL WAYS WHERE THE EXIT OR EXIT PATH IS NOT IMMEDIATELY VISIBLE (PER 1013.1)
4. TO IDENTIFY ACCESSIBLE PARKING SPACES
5. TO IDENTIFY ENTRANCES OR ROUTE TO AN ACCESSIBLE ENTRANCE
6. TO IDENTIFY ELEVATORS
7. TO IDENTIFY TOILET ROOMS
8. TO IDENTIFY PUBLIC TELEPHONES, TTY and ASSISTIVE LISTENING SYSTEMS

SIGNS, WHERE LOCATED WITHIN AN ACCESSIBLE ROUTE, MOUNTED LESS THAN 80" ABOVE THE FINISHED FLOOR, MUST HAVE ROUNDED EDGES OR AN EASED RADIUS MINIMUM OF 0.125".

SECTION 11B-404.2.8 DOOR CLOSING SPEED
1. THE SWEEP PERIOD OF ACCESSIBLE DOORS SHALL BE 5 SECONDS MINIMUM, FROM AN OPEN DOOR POSITION OF 90 DEGREES, TO A DOOR POSITION OF 12° FROM THE LATCH.

SECTION 11B-404.2.9 DOOR OPENING FORCE
1. THE EFFORT TO OPEN ANY DOOR SHALL NOT EXCEED 5LBS, EXCEPT FIRE DOORS, WHICH SHALL NOT EXCEED 15LBS FORCE. THE MINIMUM FORCE NEEDED SHALL BE USED.

SECTIONS 11B-404.2.4.3 RECESSED DOORS
1. DOORS RECESSED 8" OR MORE SHALL HAVE STRIKE EDGE CLEARANCES IN ACCORDANCE WITH FIGURE 11B-404.2.4.3.

SECTION 11B-405.5 RAMP WIDTH
1. THE CLEAR WIDTH OF A RAMP SHALL BE 48" MINIMUM.

SECTION 11B-505 HANDRAILS
1. THE TOP OF THE GRIPPING SURFACE OF HANDRAILS SHALL BE BETWEEN 34" AND 38", MEASURED VERTICALLY FROM WALKING SURFACES AND STAIR NOSINGS.
2. HANDRAILS SHALL HAVE AT LEAST 1-1/2" CLEARANCE ALONG THE SIDE; MAX. 20% OBSTRUCTIONS ON THE BOTTOM (11B-505.6).
3. HANDRAILS SHALL EXTEND BEYOND, AND IN THE SAME DIRECTION, OF STAIRS AND RAMPS.

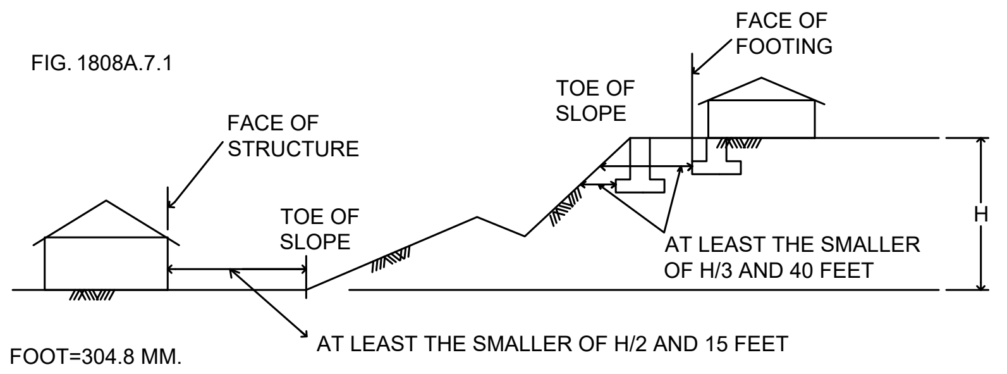
SECTION 11B-606.4 WATER CONTROLS
1. CONTROLS TO OPERATE A WATER FAUCET OR OUTLET SHALL BE A SINGLE-LEVER DESIGN, CAPABLE OF BEING OPERATED WITH A SINGLE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
2. THE FORCE REQUIRED TO OPERATE CONTROLS SHALL NOT EXCEED 5 LBS.

SECTION 11B-604 TOILET ROOMS AND BATHING ROOMS
1. AN ACCESSIBLE TOILET STALL SHALL HAVE A MINIMUM WIDTH OF 60" AND SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE, WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
2. THE INSIDE AND OUTSIDE OF THE ACCESSIBLE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST. THE LATCH AND PULL SHALL COMPLY WITH 11B-404.2.7. MAXIMUM 5 LB FORCE TO ACTIVATE (11B-309.4).
3. EXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS, A CLEAR, UNOBSTRUCTED ACCESS OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO THE WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY PERSONS WITH DISABILITIES.
4. A 27"-29" MINIMUM DIMENSION IS REQUIRED FOR LAVATORY/SINK KNEE CLEARANCE, WHICH IS THE DISTANCE FROM THE FINISH FLOOR TO THE UNDERSIDE OF THE LAVATORY/SINK AND THE LAV FRONT EDGE.
5. TABLE 11B-604.9 SUGGESTS DIMENSIONS FOR CHILDREN'S USE.
6. TOILET ACCESSORIES LOCATED IN THE CIRCULATION PATH AND WITH THE BOTTOM MOUNTED ABOVE 27" SHALL BE 4" DEEP MAX (11B-307.2).

OUTDOOR VENTILATION REQUIREMENTS:

1. CLASSROOMS ARE DESIGNED FOR MINIMUM OUTSIDE AIR OF 0.38 CFM PER SF. PER THE CALIFORNIA ENERGY CODE (CEC), SPACES SHALL BE DESIGNED TO THE MINIMUM REQUIREMENTS AS SPECIFIED OR TO 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE BUILDING MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT THE EXPECTED NUMBER OF OCCUPANTS IN THE CLASSROOM SO THAT THE OUTDOOR VENTILATION RATE FOR MECHANICAL SYSTEMS CAN BE ADEQUATELY ADJUSTED UPON SITE INSTALLATION OF THE BUILDING. THE BUILDING MANUFACTURER SHALL ALSO CONFIRM WITH HVAC EQUIPMENT MANUFACTURER THAT THE SELECTED EQUIPMENT WILL BE ABLE TO PERFORM TO ACCOMMODATE THE ADDITIONAL OUTDOOR AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING IS LOCATED. AT OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO BUILDING OWNER A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.

FIG. 1808A.7.1


FACE OF FOOTING
TOE OF SLOPE
FACE OF STRUCTURE
TOE OF SLOPE
H
AT LEAST THE SMALLER OF H/3 AND 40 FEET
AT LEAST THE SMALLER OF H/2 AND 15 FEET

FOR SI: 1 FOOT=304.8 MM.

LIGHT GAUGE METAL STUDS & COLD FORMED STEEL

1. ALL LIGHT GAUGE METAL STUDS & COLD FORMED STEEL SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE AISI S100-16.
2. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653.
3. CUSTOM FORMED SHAPES SHALL BE BENT FROM ASTM A1011 SS STEEL SHEETS.
4. STUD AND TRACK DESIGNATIONS ARE BASED ON STEEL STUD MANUFACTURERS ASSOCIATION. ICC-ES EVALUATION REPORT ESR-3064P.
5. GALVANIZED FRAMING PRODUCTS SHALL BE COATED IN ACCORDANCE WITH AISI S240-20, SECTION 20 A4. PRODUCTS WILL BE FURNISHED WITH A G-60 OR EQUIVALENT COATING IF SPECIFIED, AND SHALL BE IN CONFORMANCE WITH ASTM C-955, OTHERWISE, G-90 OR EQUIVALENT COATING WILL BE PROVIDED.
6. WELDING OF LIGHT GAUGE METAL STUDS & COLD FORMED STEEL SHALL COMPLY WITH AWS D1.3-08.
7. ALL COLD-ROLLED MEMBERS FABRICATED BY AMS SHALL USE HOT-ROLLED SHEETS WITH THE FOLLOWING MIN. SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

GA	MATERIAL	DESIGN THICKNESS	MIN. THICKNESS
20	A1011 SS Gr. 36	0.0346"	0.0329"
18	A1011 SS Gr. 36	0.0451"	0.0428"
16	A1011 SS Gr. 50	0.0566"	0.0538"
14	A1011 SS Gr. 45	0.0713"	0.0677"
12	A1011 SS Gr. 45	0.1017"	0.0966"
10	A1011 SS Gr. 50	0.1345"	0.1278"

METAL FLOOR DECK

1. SECTION PROPERTIES SHALL BE DERIVED IN ACCORDANCE WITH AISI, "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION."
2. METAL DECKING IS TO BE ATTACHED TO THE STRUCTURAL FRAME IN CONFORMANCE WITH AWS D1.1 AND D1.3, "SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES."

METAL FLOOR DECK (CONTINUED)

3. ASTM REFERENCE NUMBERS: ASTM A653, STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANEALED) BY THE HOT-DIP PROCESS STRUCTURAL (PHYSICAL) QUALITY.
4. STEEL DECK INSTITUTE (SDI)-METAL FLOOR DECK PROFILES SHALL BE IN CONFORMANCE WITH SDI STANDARDS.
5. METAL FLOOR DECK TO BE ASC STEEL DECK PER IAPMO ER-0329:
    - 1.1. BH-36, 18 GAUGE, 1½" DEEP x 36" WIDE
    - 1.2. 3WxH-36, 18 GAUGE, 3" DEEP x 36" WIDE
6. DECK UNITS ARE TO BE FABRICATED FROM SHEET STEEL CONFORMING TO:
    - 1.1. ASTM A653 SS, F_Y=50 KSI WITH A GALVANIZED COATING, G-60 OR G-90.

FASTENERS FOR ATTACHMENT TO STEEL

1. SCREWS FOR STEEL TO STEEL & WOOD TO STEEL CONNECTIONS SHALL BE SELF-DRILLING, SELF-TAPPING SCREWS (SDSTS) PER ASTM C1513, UNO.
    - 1.1 HEAD TYPE AS REQUIRED FOR APPLICATION.
    - 1.2 SCREW LENGTHS TO HAVE 3 EXPOSED THREADS MIN.
    - 1.3 CORROSION PROTECTION: INTERIOR USE SCREWS AND SCREWS THAT ARE PROTECTED FROM THE OUTSIDE ENVIRONMENT SHALL BE ELECTRO-ZINC PLATED MIN, UNO. EXTERIOR USE SCREWS THAT ARE EXPOSED TO THE OUTSIDE ENVIRONMENT SHALL BE ONE OF THE FOLLOWING, UNO:
        - A. ITW BUILDEX TEKS SELF-DRILLING TAPPING SCREWS WITH CLIMASEAL COATING PER ICC ESR-1976.
        - B. HILTI SELF-DRILLING AND SELF-PIERCING TAPPING SCREWS WITH KWIK-COTE COATING PER ICC ESR-2196.
        - C. GRABBER SELF-DRILLING TAPPING SCREWS WITH GRABBERGARD COATING PER ICC ESR-1271.
2. SHOT PINS SPECIFIED FOR PLYWOOD DIAPHRAM TO LIGHT GAUGE STEEL CONNECTIONS SHALL BE ET&F PINS PER IAPMO UES REPORT ER-0335.
3. SHOT PINS FOR ATTACHMENT OF 2X WOOD OR LIGHT GAUGE STEEL MEMBERS TO STRUCTURAL STEEL OR CONCRETE SHALL BE BY HILTI UNO.

ABBREVIATION LEGEND

ACC	ACCESSIBLE
AC	ASPHALT CONCRETE
A/C	AIR CONDITIONING
ACI	AMERICAN CONCRETE INSTITUTE
ACOUS	ACOUSTICAL
ADD	ADDENDUM
ADD'L	ADDITIONAL
ADJ	ADJUSTABLE OR ADJACENT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALT	ALTERNATE
ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
ARCH	ARCHITECT(URAL)
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWC	AMERICAN WOOD COUNCIL
AWPA	AMERICAN WOOD PROTECTION ASSOCIATION
AWS	AMERICAN WELDING SOCIETY
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
BN	BOUNDARY NAILING
BOT/BOTT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
BUR	BUILT UP ROOFING
C	CARPET
CAB	CABINET
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
CCR	CALIFORNIA CODE OF REGULATIONS
CEM	CEMENT
CF	CUBIC FOOT
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CLG	CEILING
CLR	CLEAR
CT	CERAMIC TILE
CMU	CONCRETE MASONRY UNIT
CNEL	COMMUNITY NOISE EQUIVALENT LEVEL
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CSK	COUNTERSINK
CTRD	CENTERED
CW	COLD WATER
DBL	DOUBLE
DET	DETAIL
DF	DRINKING FOUNTAIN OR DOUGLAS FIR
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DR	DOOR
DS	DOWNSPOUT
DSA	DIVISION OF THE STATE ARCHITECT
DWG	DRAWING
(E)	EXISTING
EA	EACH
EJ	EXPANSION JOINT
ELEV	ELEVATION
ELECT	ELECTRICAL
EMBED	EMBEDMENT
EMT	ELECTRICAL MAGNETIC TUBING
EN	EDGE NAILING (OR EDGE FASTENING)
ETC	ET CETERA
EQ	EQUAL
EW	EACH WAY
EXP	EXPOSURE
EXT	EXTERIOR
F	FAHRENHEIT
FUT	FUTURE
FAB	FABRICATION
FAC	FACTORY
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FG	FINISHED GRADE
FHWS	FLAT HEAD WOOD SCREW
FIN	FINISH
FLR	FLOOR
FLSHG	FLASHING
FN	FIELD NAILING
FND/FNDN	FOUNDATION
FO	FACE OF
FOC	FACE OF CONCRETE
FOCOL	FACE OF COLUMN
FOF	FACE OF FINISH
FOP	FACE OF PLYWOOD
FOS	FACE OF STUD
FRP	FIBERGLASS REINFORCED PLASTIC PANELS
FT	FOOT
FTG	FOOTING
FURR	FURRED (-ING)
GA	GAUGE
GB	GYPSUM BOARD
GL	GLASS OR GLAZING
GLV/GALV	GALVANIZED
GSM	GALVANIZED SHEET METAL
GYP	GYPSUM
GYP.BD.	GYPSUM BOARD
HB	HOSE BIBB
HC	HOLLOW CORE
HDR	HEADER
HDW	HARDWOOD
HF	HEM FIR
HM	HOLLOW METAL (STEEL)
HOR/HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION (STEEL)
HT	HEIGHT
HVAC	HEATING VENTILATING AIR CONDITIONING
HW	HOT WATER
IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS
ICC	INTERNATIONAL CODE COUNCIL
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATE (D), (ION)
INT	INTERIOR
INV	INVERT
IR	INTERPRETATION OF REGULATIONS
ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY/ACCESS
JT	JOINT
KSI	KIPS PER SQUARE INCH (KIPS = 1,000LBS)
LAM	LAMINATE(D)
LAV	LAVATORY
LB, LBS	POUND
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNDG	LANDING
LONG	LONGITUDINAL
LS	LAG SCREW
LT	LIGHT
LW	LIGHT WEIGHT
LWC	LIGHT WEIGHT CONCRETE
MATL	MATERIAL
MAX	MAXIMUM
MB	MECHANICAL BOLT
MECH	MECHANICAL
MFG	MANUFACTURING
MFR	MANUFACTURER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MM	MILLIMETER
MTL	METAL
(N)	NEW
NIC	NOT IN CONTRACT
NDS	NATIONAL DESIGN SPECIFICATION
NW	NORMAL WEIGHT
NWC	NORMAL WEIGHT CONCRETE
O/	OVER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND OR OVERHANG
OL	OCCUPANT LOAD
OPG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
PAF	POWER-ACTUATED FASTENER
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLF	POUNDS PER LINEAR FOOT
PLT	PLATE
PLWD/PLY	PLYWOOD
PNL	PANEL
POC	POINT OF CONNECTION
PS	PRODUCT STANDARD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED
PTDF	PRESERVATIVE TREATED DOUGLAS FIR
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
R	RISER
RD	ROOF DRAIN
RDPRC	REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE
RDWD	REDWOOD
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCING
REQ'D/REQ	REQUIRED
RES	RESILIENT
RDWD	REDWOOD
RWL	RAIN WATER LEADER
SCH/SCHED	SCHEDULE
SD	STORM DRAIN
SDSTS	SELF-DRILLING, SELF-TAPPING SCREW
SEC	SECTION
SEP	SEPARATION
SF	SQUARE FEET
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SMS	SHEET METAL SCREW
SOG	SLAB-ON-GRADE
SP	STRUCTURAL PLYWOOD
SPEC	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
SSMA	STEEL STUD MANUFACTURERS ASSOCIATION
STAGG	STAGGERED
STN	STAIN
STD	STANDARD
STL	STEEL
STS	SELF TAPPING SCREW
STSMS	SELF TAPPING SHEET METAL SCREW
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEMP	TEMPERED
THRU	THROUGH
TJ	TOOL JOINT
TOC	TOP OF CURB, CRICKET, OR CONCRETE
TOP	TOP OF PARAPET
TOS	TOP OF SLAB, SHEATHING, OR STEEL
TOW	TOP OF WALL
TRANS	TRANSVERSE
TS	TOP OF SHEATHING
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VCT	VINYL COMPOSITION TILE
VCTB	VINYL COVERED TACKBOARD
VERT	VERTICAL
VOC	VOLATILE ORGANIC COMPOUND(S)
VFY	VERIFY
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING
W/	WITH
WD	WOOD
WF	WIDE FLANGE
WIN	WINDOW
W/O	WITHOUT
WS	WOODSCREW
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
∠	ANGLE
@	AT
℄	CENTER LINE
Ø	DIAMETER
°	DEGREES
M̸L	MODULE LINE
±	PLUS/MINUS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

SITE SPECIFIC PROJECT NAME
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~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ 2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDAL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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

SHEET TITLE:
GENERAL NOTES
&
SPECIFICATIONS

SHEET NUMBER:
N2.0

DOORS							FRAMES			
DOOR NO.	DOOR TYPE	DOOR SIZE	QUANTITY	MATERIAL	FINISH	HARDWARE SET NO.	FRAME TYPE	MATERIAL	FINISH	REMARKS
①	D1	3'-0" x 7'-0"	2	HM	PT	H	F1	HM	PT	
②	D2	3'-0" x 7'-0"	1	HM	PT	I	F1	HM	PT	
③	D3	1'-6" x 7'-0"	1	HM	PT	J	F2	HM	PT	
④	D2	3'-0" x 7'-0"	1	HM	PT	J	F1	HM	PT	

DOOR ABBREVIATIONS

HM - HOLLOW METAL
~~AL - ALUMINUM~~
~~S - STEEL~~
~~SST - STAINLESS STEEL~~
~~STL - STEEL FRAME, 16ga. FULLY WELDED~~
~~WWF - WINDOW WALL FRAME~~
~~SC - SOLID CORE WOOD~~
~~HC - HOLLOW CORE WOOD~~
PT - PAINTED
~~CA - CLEAR ANODIZED~~
~~BR - BRONZE ANODIZED~~
~~CLR - CLEAR FINISH~~

DOOR NOTES

1. DOORS SHALL COMPLY WITH C.B.C. SECTION 1010.
2. CLASSROOMS ≥ 1000 S.F WILL REQUIRE PANIC HARDWARE THAT COMPLIES WITH C.B.C. SECTION 1010.2.9.
3. PER C.B.C. 1010.2.8.2: PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.2.4.

DOOR SCHEDULE

WINDOW TYPE	QTY.	FUNCTION	'W' WIDTH	'H' HEIGHT	FINISH	GLASS TYPE	U FACTOR	SHGC	VT MIN	MIN STC RATING	REMARKS
A	-	FIXED	10'-0" MAX.	8'-0" MAX.	BRONZE ANODIZED	SOLAR GREY^6	0.42	0.25	0.44	27	INOPERABLE
B	-	FIXED	6'-0" MAX.	6'-0" MAX.	BRONZE ANODIZED	SOLAR GREY^6	0.42	0.25	0.44	27	INOPERABLE

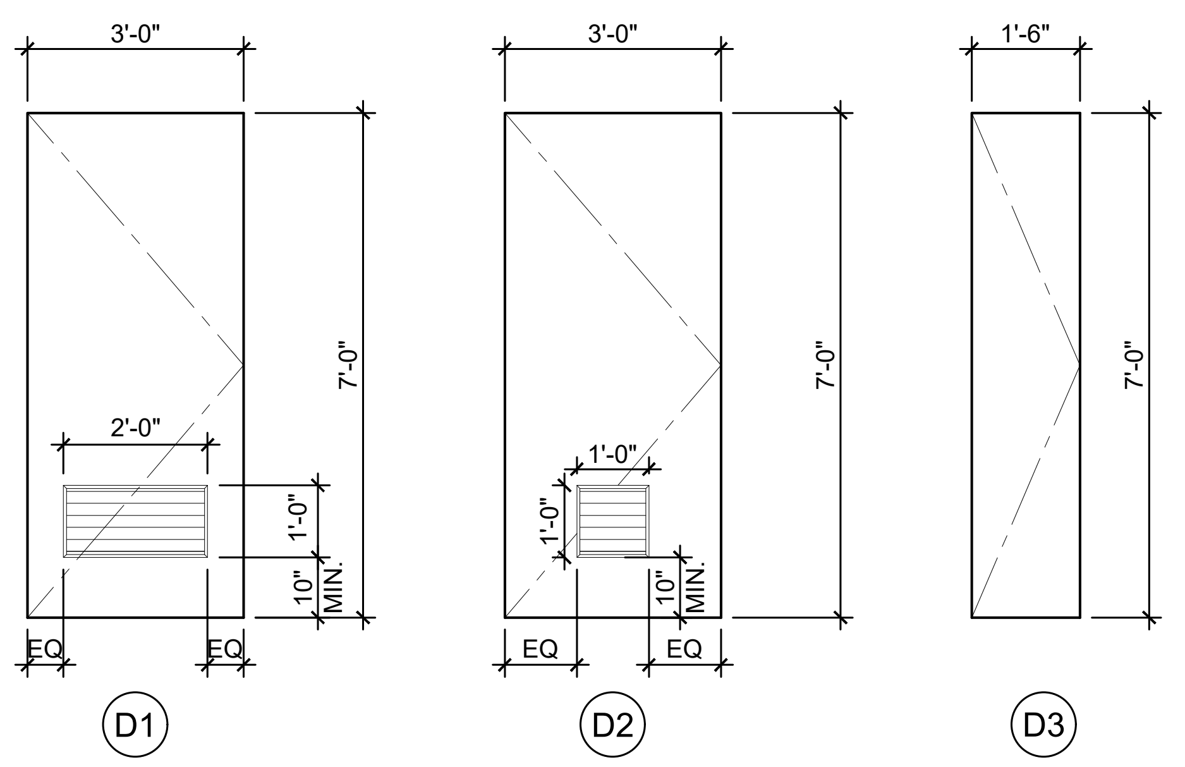
1. EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS, OR LAMINATED AS 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM. GLASS SHALL BE DUAL-PANE.
2. WINDOWS THAT MEETS ALL OF THE FOLLOWING CONDITIONS SPECIFIED IN SECTION 2406.4.3, SHALL BE CONSIDERED A HAZARDOUS LOCATION:
   A. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET.
   B. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE FINISH FLOOR.
   C. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36" ABOVE FINISH FLOOR.
   D. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36", MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING.
3. WINDOWS THAT ARE CONSIDERED A HAZARDOUS LOCATION SHALL CONTAIN FULLY TEMPERED SAFETY GLAZING & MEET THE FOLLOWING REQUIREMENTS:
   A. PASS THE IMPACT TEST REQUIREMENTS IN ACCORDANCE WITH "CPSC 16 CFR PART 1201" PER SECTION 2406.2, WITH A TEST CRITERIA OF CATEGORY II, UNLESS OTHERWISE INDICATED IN C.B.C. TABLE 2406.2(1).
   B. IDENTIFICATION OF SAFETY GLAZING PER C.B.C. 2406.3
4. ALL WINDOWS SHALL HAVE METAL FRAMES AND BE MANUFACTURED BY OTHERS.
5. NOT USED
6. THE MINIMUM STANDARD GLASS TYPE FOR ALL WINDOWS SHALL SOLAR GREY GLAZING. UPGRADED GLAZING (LOW E, LOW E2, ETC.) MAY BE USED PER SITE SPECIFIC REQUIREMENTS. WINDOWS TO BE DUAL-PANE PER CA ENERGY CODE.
7. ALL NFRC RATED FENESTRATION AS NOTED ON THE WINDOW SCHEDULE REQUIRE TEMPORARY NFRC LABELS. TEMPORARY NFRC LABELS SHALL STAY ON FENESTRATION PRODUCTS UNTIL INSPECTOR HAS VERIFIED THAT THE INSTALLED U-FACTOR, SHGC, AND VT MATCH THE WINDOW SCHEDULE.

WINDOW SCHEDULE

FINISHES											
				WALLS							
ROOM NUMBER	ROOM NAME	FLOOR	BASE	FRONT	REAR	RIGHT	LEFT	CEILING	CEILING HEIGHT	REMARKS
101	GIRLS R.R.	B	E	J	J	J	J	K	8'-6"	
102	STAFF ROOM	B	E	J	J	J	J	K	8'-6"	
103	JANITOR	B	E	J	J	J	J	K	8'-6"	
104	BOYS R.R.	B	E	J	J	J	J	K	8'-6"	

FINISH INDICATOR OPTIONS

~~A - CARPET; PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600.~~
B - VINYL SHEET FLOORING; 0.6 MIN, C.D.F. PER ASTM D 2047
~~C - VCT; ARMSTRONG, STANDARD, OR EXCELON.~~
~~D - TOP SET BASE; 4"~~
E - SELF COVE BASE; 6"
~~F - WALL FINISH; 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING~~
~~G - 1/2" W.R. GYP BOARD; TAPE, PAINTED FINISH~~
~~H - 1/2" GYP BOARD; TAPE, PAINTED FINISH~~
J - 3/32" F.R.P.; OVER 1/2" W.R. GYP BOARD
K - ACOUSTICAL LAY-IN GRID CEILING PANELS; 2'x4'
~~L - 1/2" VINYL TACKBOARD; CLASS 1, OVER 5/8" TYPE "X" GYP BOARD BACKING~~
~~M - 5/8" TYPE 'X' GYP BOARD; TAPE, TEXTURE, PAINTED FINISH~~
~~N - CERAMIC TILE - (FULL HEIGHT AT WALLS)~~
~~O - EXPOSED CONCRETE WITH CONCRETE SEALER~~
~~P - CLOUD CEILING PANELS~~



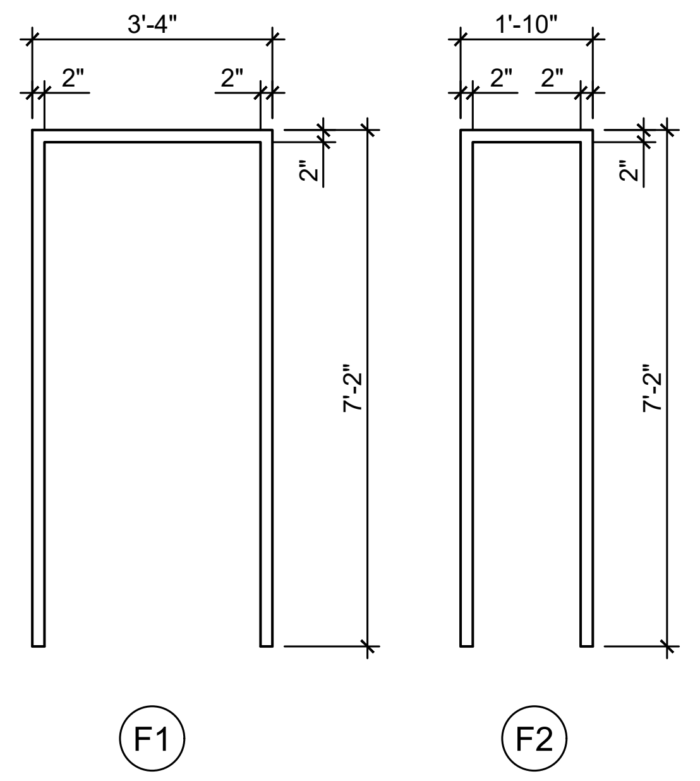
DOOR TYPES

NOTES:
1. WINDOWS ARE INOPERABLE.
2. IDENTIFICATION OF GLASS & SAFETY GLAZING PER CBC CHAPTER 24

WINDOW TYPES

NOTE: ALL INTERIOR FINISHES SHALL COMPLY WITH CFC, CBC & TITLE 19.

ROOM FINISHES SCHEDULE



DOOR FRAME TYPES

A	~~EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND95PD - CLASSROOM LOCK~~
B	~~EXTERIOR DOOR PANIC BAR w/PULL ON EXTERIOR VON DUPRIN AX22PANL-CD (REQUIRED WHEN OCCUPANT LOAD IS 50 0R MORE)~~
C	~~INTERIOR PASSAGE COPPER CREEK 6220-PASSAGE w/ LEVER~~
D	~~INTERIOR RESTROOM COPPER CREEK 6231-RESTROOM w/ LEVER~~
E	~~INTERIOR ENTRY/OFFICE COPPER CREEK 6241-ENTRY/OFFICE w/ LEVER~~
F	~~INTERIOR STOREROOM COPPER CREEK 6250-STOREROOM w/ LEVER~~
G	~~INTERIOR CLASSROOM COPPER CREEK 6260-CLASSROOM w/ LEVER~~
H	EXTERIOR DOOR LOCKSET SCHLAGE B563 w/TRIMCO PUSH PLATE 1001-3 & PULL PLATE 1010-3 - MULTI-ACCOMMODATION RESTROOM LOCK
I	EXTERIOR DOOR LOCKSET w/LEVER & PUSH BUTTON RHODES SCHLAGE ND85PD - SINGLE USER RESTROOM LOCK
J	EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND80PD - STOREROOM LOCK

EXTERIOR DOOR HARDWARE

1.	HINGES:	HAGER 4-1/2x4-1/2 BUTTS, BB1279 US26D, 1-1/2 PAIR PER DOOR, WITH SET SCREW IN BARREL AND BALL BEARING DESIGN.
2.	CLOSER:	NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL. (5 LBS. MAX. PRESSURE) ALL SCHLAGE HARDWARE IS PROVIDED WITH A CLOSER
3.	WEATHERSTRIPPING:	ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007 OR EQUAL, AT DOOR JAMBS AND HEAD.
4.	THRESHOLD:	THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.
5.	LOCKDOWN:	INTERIOR TEACHERS' MANUAL LOCK FOR CAMPUS LOCK DOWN CRITERIA - REQUIRED FOR STATE-FUNDED SCHOOLS, PER EDUCATION CODE SECTION 17075.50 (AND ALSO CBC 1010.2.8.2): PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.2.4.

DOOR HARDWARE NOTES

1. 11B-404.2.3 CLEAR WIDTH
   DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (813 MM) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES (914 MM) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES (864 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (864 MM) AND 80 INCHES (2032 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (102 MM).

   EXCEPTIONS:
   1. IN ALTERATIONS, A PROJECTION OF 5/8 INCH (15.9 MM) MAXIMUM INTO THE REQUIRED CLEAR WIDTH SHALL BE PERMITTED FOR THE LATCH SIDE STOP.
   2. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1981 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.
2. HANDLES, PULLS, LATCHES, LOCKS AND OTHERS OPERABLE PARTS ON DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 lbs. MAX. (11B-404.2.7, 11B-309.4)
3. DOORS SHALL BE OPERABLE FROM INSIDE WITH A SINGLE MOTION W/O THE USE OF ANY TOOLS, EFFORT, OR SPECIAL KNOWLEDGE.
4. EMERGENCY EXIT AND PANIC HARDWARE
   EMERGENCY EXIT AND PANIC HARDWARE SHALL COMPLY WITH SFM STANDARD 12-10-3, SECTION 12-10-302
   A) THE CROSS-BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE
   D) THE ENDS OF THE CROSS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.

*ADDITIONAL DOORS MAY BE REQUIRED BASED ON BUILDING LAYOUT.

DOOR HARDWARE SCHEDULE

EMERGENCY EXIT AND PANIC HARDWARE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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PRE-CHECKED SET NAME
12'x40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(1) 12'x40' RESTROOM

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-27
STATE OF CALIFORNIA

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

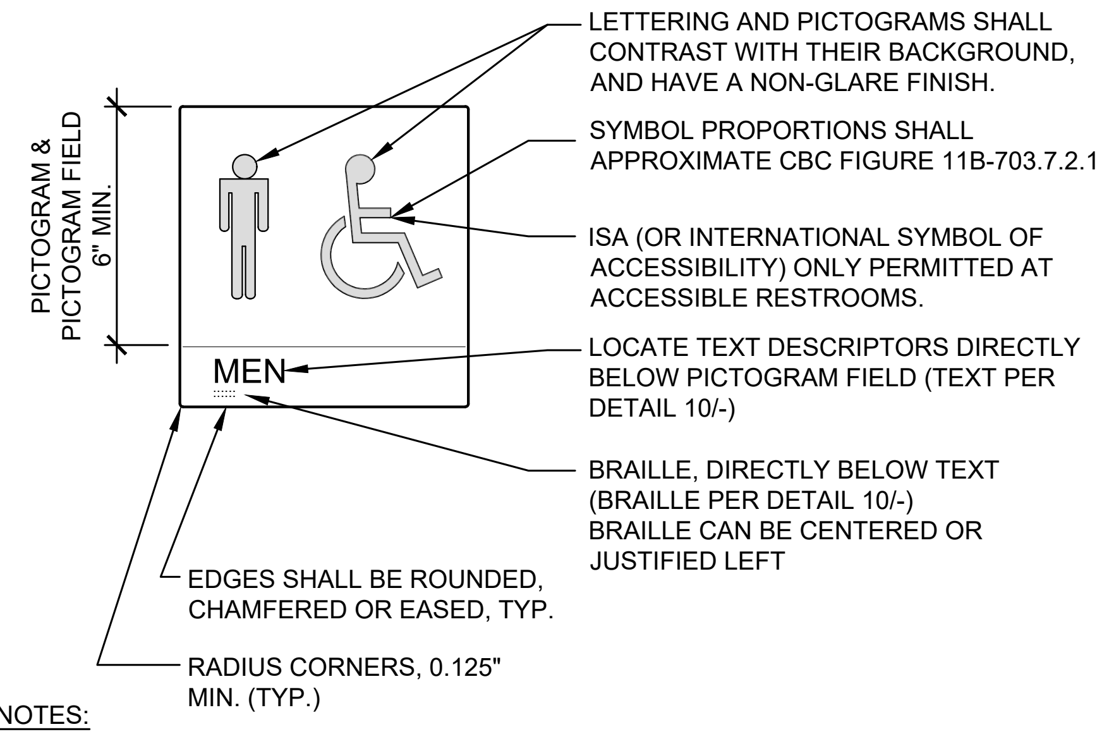
REVISIONS
1
2
3
4

DRAWN BY: AV
SCALE: AS NOTED
DATE: 3/6/2026
PROJECT NO: 2003-26

SHEET TITLE:
TYPICAL SCHEDULES: DOORS, WINDOWS, & FINISHES

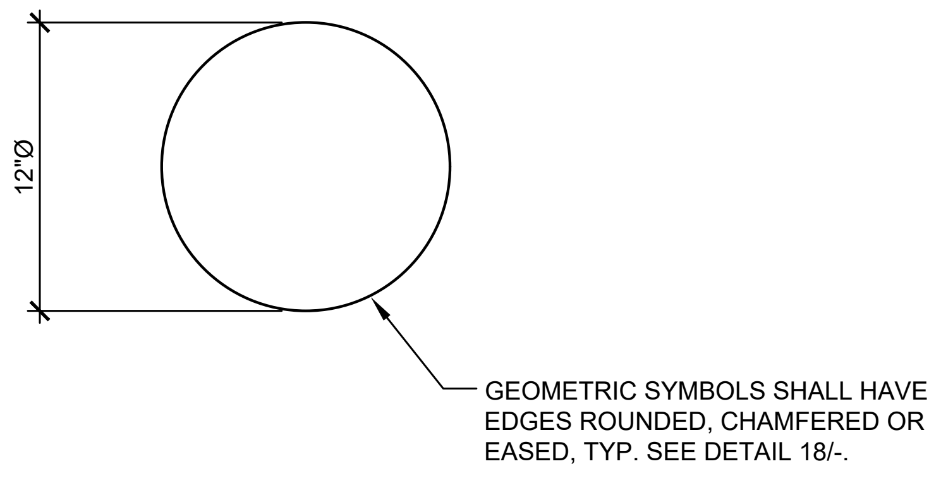
SHEET NUMBER:
N3.0

02-XXXXXX - 24x40 Gen7 BUILDINGS - SAVED: 3/4/2026 4:01 PM PLOTTED: 3/6/2026 10:55 AM C:\Users\angelina.v\AMS\Engineering Team - Documents\Projects\2000-2099\2003-26 MMM - Alum Rock Stockpile\PRELIMINARY\DWG\12x40 RR\03 - 02 - 122042 - STOCKPILE - N3.0 - Schedules.dwg


PICTOGRAM & PICTOGRAM FIELD 6" MIN.
MEN
LETTERING AND PICTOGRAMS SHALL CONTRAST WITH THEIR BACKGROUND, AND HAVE A NON-GLARE FINISH.
SYMBOL PROPORTIONS SHALL APPROXIMATE CBC FIGURE 11B-703.7.2.1
ISA (OR INTERNATIONAL SYMBOL OF ACCESSIBILITY) ONLY PERMITTED AT ACCESSIBLE RESTROOMS.
LOCATE TEXT DESCRIPTORS DIRECTLY BELOW PICTOGRAM FIELD (TEXT PER DETAIL 10/-)
BRAILLE, DIRECTLY BELOW TEXT (BRAILLE PER DETAIL 10/-) BRAILLE CAN BE CENTERED OR JUSTIFIED LEFT
EDGES SHALL BE ROUNDED, CHAMFERED OR EASED, TYP.
RADIUS CORNERS, 0.125" MIN. (TYP.)

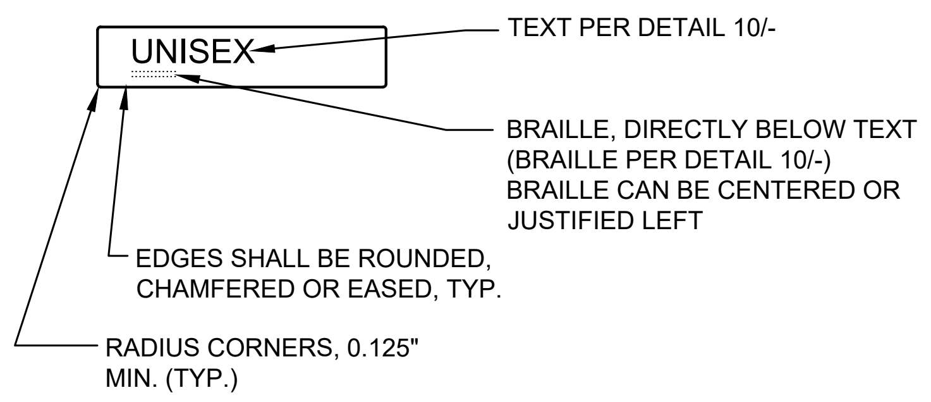
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

WALL MOUNTED RESTROOM SYMBOLS-MEN
NOT TO SCALE 1


12"Ø
GEOMETRIC SYMBOLS SHALL HAVE EDGES ROUNDED, CHAMFERED OR EASED, TYP. SEE DETAIL 18/-.

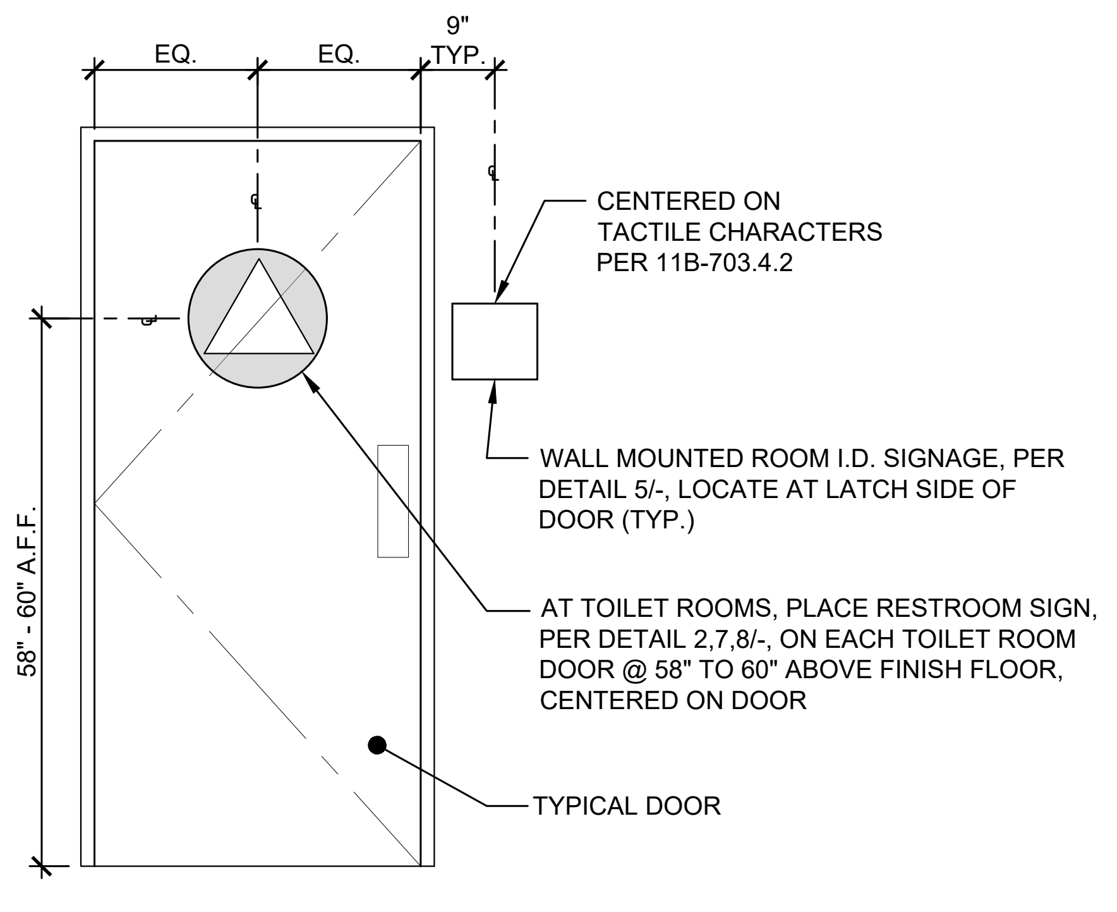
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-.
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6 - SEE DETAIL 18/-
5. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

DOOR MOUNTED RESTROOM SYMBOLS-WOMEN
NOT TO SCALE 2


UNISEX
TEXT PER DETAIL 10/-
BRAILLE, DIRECTLY BELOW TEXT (BRAILLE PER DETAIL 10/-) BRAILLE CAN BE CENTERED OR JUSTIFIED LEFT
EDGES SHALL BE ROUNDED, CHAMFERED OR EASED, TYP.
RADIUS CORNERS, 0.125" MIN. (TYP.)

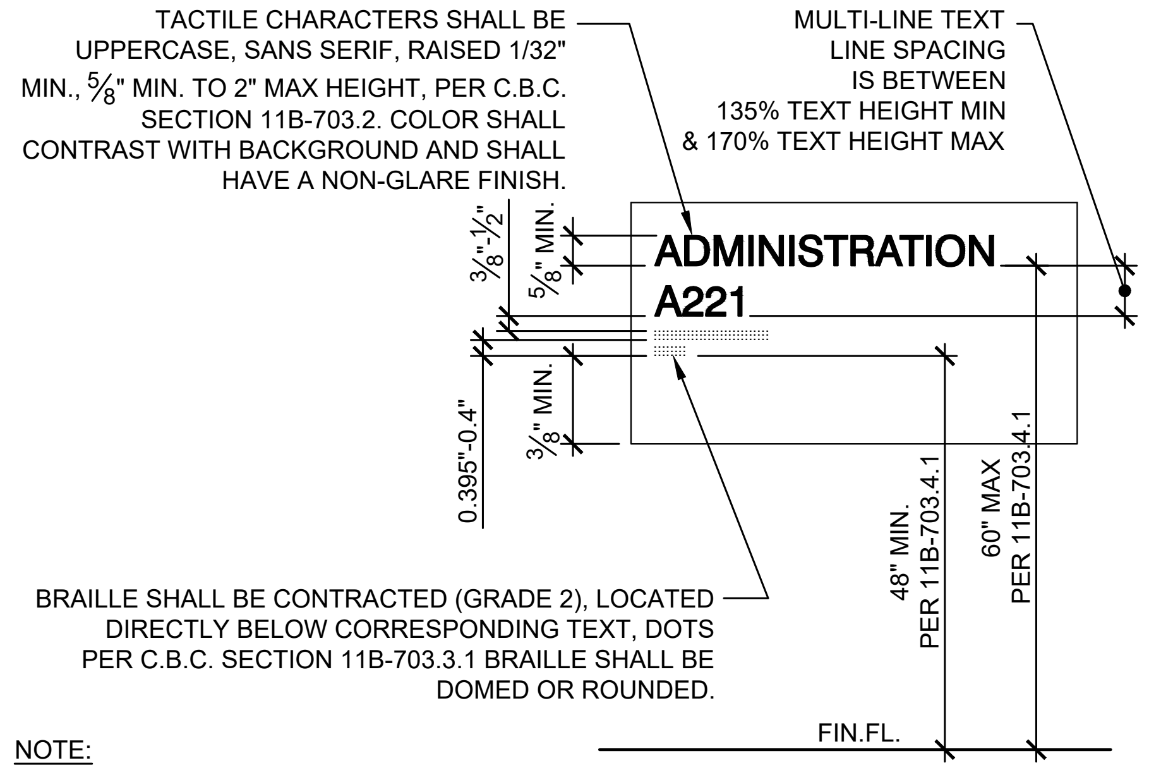
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-.
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. THE UNISEX WALL-MOUNTED SIGN SHALL HAVE RAISED TEXT, CORRESPONDING BRAILLE, AND NO PICTOGRAM (DSA BU 17-01)
5. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

WALL MOUNTED RESTROOM SYMBOLS-UNISEX
NOT TO SCALE 3


EQ.
EQ.
9" TYP.
58" - 60" A.F.F.
CENTERED ON TACTILE CHARACTERS PER 11B-703.4.2
WALL MOUNTED ROOM I.D. SIGNAGE, PER DETAIL 5/-, LOCATE AT LATCH SIDE OF DOOR (TYP.)
AT TOILET ROOMS, PLACE RESTROOM SIGN, PER DETAIL 2,7,8/-, ON EACH TOILET ROOM DOOR @ 58" TO 60" ABOVE FINISH FLOOR, CENTERED ON DOOR
TYPICAL DOOR

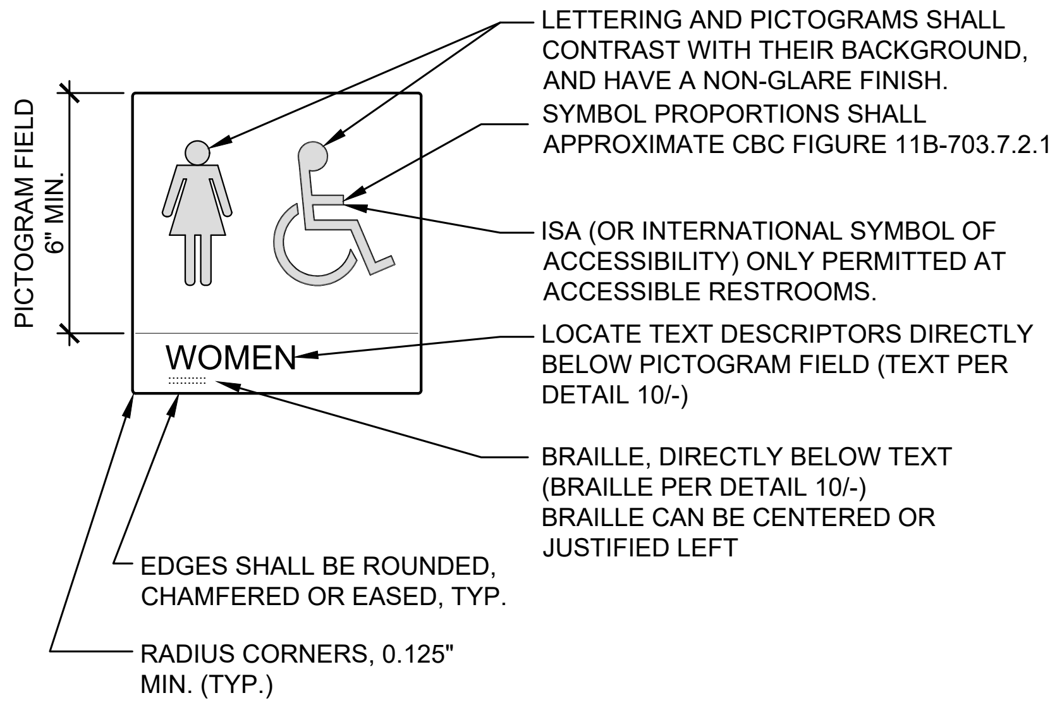
NOTE:
SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

ROOM IDENTIFICATION SIGNAGE
NOT TO SCALE 4


TACTILE CHARACTERS SHALL BE UPPERCASE, SANS SERIF, RAISED 1/32" MIN., 5/8" MIN. TO 2" MAX HEIGHT, PER C.B.C. SECTION 11B-703.2. COLOR SHALL CONTRAST WITH BACKGROUND AND SHALL HAVE A NON-GLARE FINISH.
MULTI-LINE TEXT LINE SPACING IS BETWEEN 135% TEXT HEIGHT MIN & 170% TEXT HEIGHT MAX
ADMINISTRATION
A221
3/8"-1/2"
5/8" MIN.
0.395"-0.4"
3/8" MIN.
48" MIN. PER 11B-703.4.1
60" MAX PER 11B-703.4.1
BRAILLE SHALL BE CONTRACTED (GRADE 2), LOCATED DIRECTLY BELOW CORRESPONDING TEXT, DOTS PER C.B.C. SECTION 11B-703.3.1 BRAILLE SHALL BE DOMED OR ROUNDED.
FIN.FL.

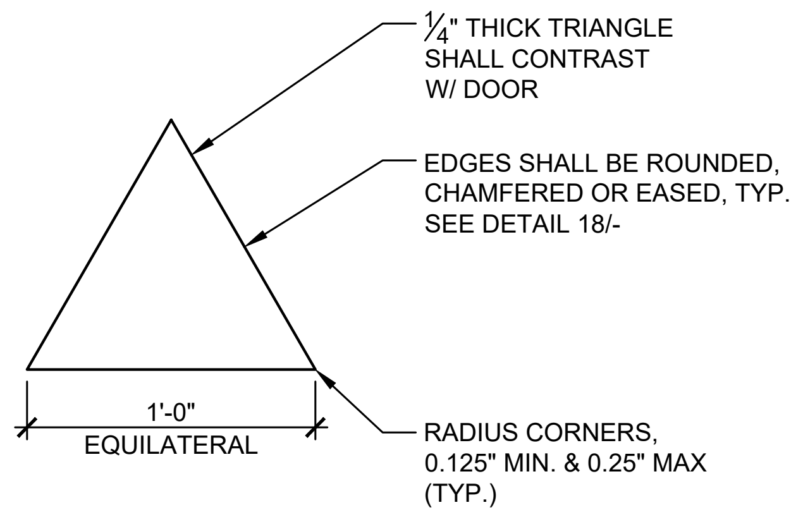
NOTE:
1. PER 11B-216 2022, NEW OR ALTERED SIGNAGE SHALL COMPLY WITH C.B.C. SECTION 11B-703.
2. FOR REQUIRED TACTILE & NON-TACTILE SIGNS LOCATIONS, SEE SHEET N2.0, ACCESSIBILITY STANDARDS, "SECTION 11B-216".
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ATTACH SIGNS USING ADHESIVE OR MIN (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
5. SIGN TO BE PLACED PER DETAIL 4/-

PERMANENT ROOM I.D. SIGNAGE
NOT TO SCALE 5


PICTOGRAM FIELD 6" MIN.
WOMEN
LETTERING AND PICTOGRAMS SHALL CONTRAST WITH THEIR BACKGROUND, AND HAVE A NON-GLARE FINISH.
SYMBOL PROPORTIONS SHALL APPROXIMATE CBC FIGURE 11B-703.7.2.1
ISA (OR INTERNATIONAL SYMBOL OF ACCESSIBILITY) ONLY PERMITTED AT ACCESSIBLE RESTROOMS.
LOCATE TEXT DESCRIPTORS DIRECTLY BELOW PICTOGRAM FIELD (TEXT PER DETAIL 10/-)
BRAILLE, DIRECTLY BELOW TEXT (BRAILLE PER DETAIL 10/-) BRAILLE CAN BE CENTERED OR JUSTIFIED LEFT
EDGES SHALL BE ROUNDED, CHAMFERED OR EASED, TYP.
RADIUS CORNERS, 0.125" MIN. (TYP.)

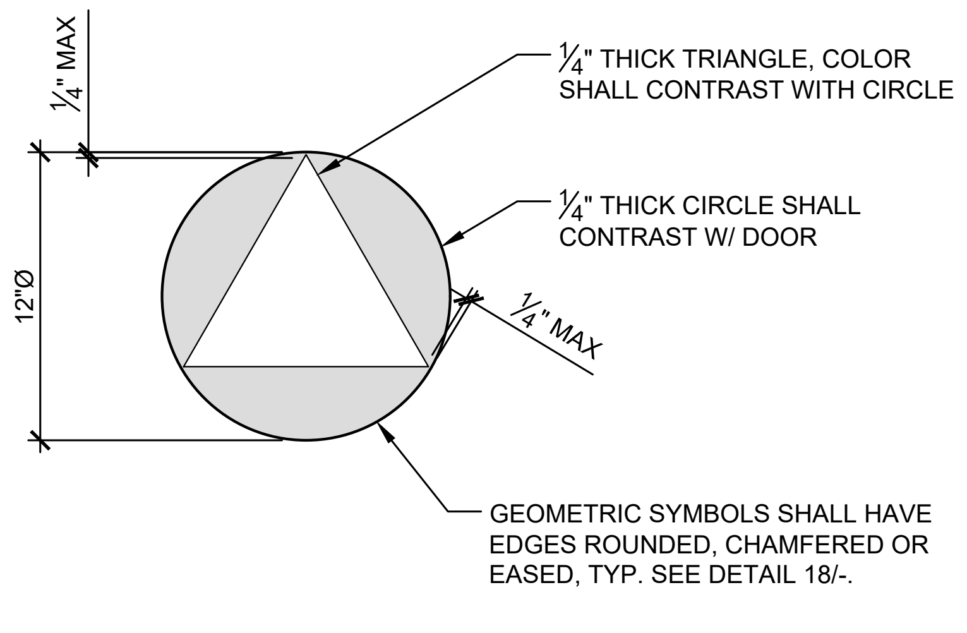
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

WALL MOUNTED RESTROOM SYMBOLS-WOMEN
NOT TO SCALE 6


1/4" THICK TRIANGLE SHALL CONTRAST W/ DOOR
EDGES SHALL BE ROUNDED, CHAMFERED OR EASED, TYP. SEE DETAIL 18/-
1'-0" EQUILATERAL
RADIUS CORNERS, 0.125" MIN. & 0.25" MAX (TYP.)

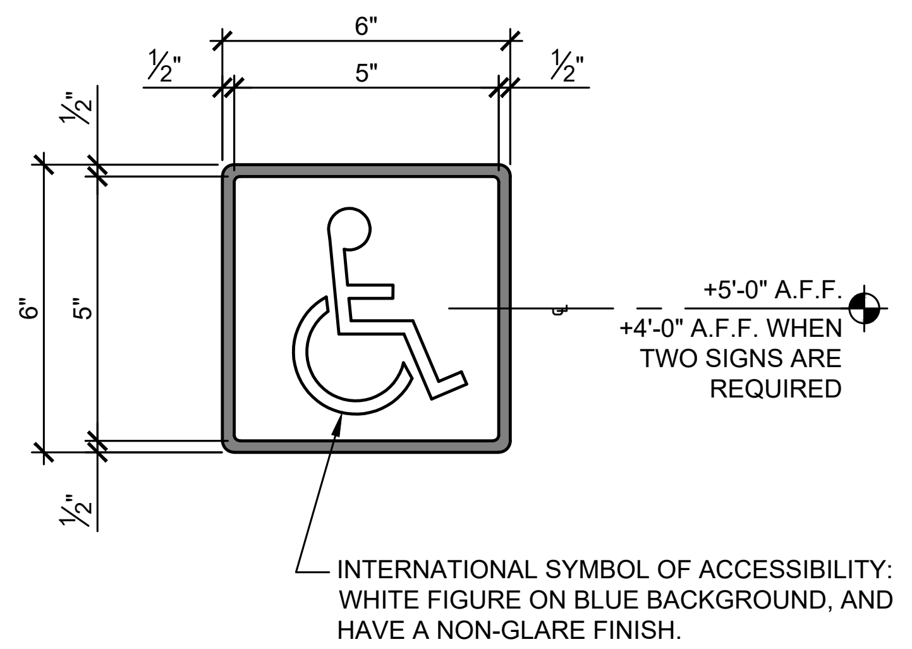
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6 - SEE DETAIL 18/-
5. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

DOOR MOUNTED RESTROOM SYMBOL-MEN
NOT TO SCALE 7


1/4" MAX
12"Ø
1/4" THICK TRIANGLE, COLOR SHALL CONTRAST WITH CIRCLE
1/4" THICK CIRCLE SHALL CONTRAST W/ DOOR
1/4" MAX
GEOMETRIC SYMBOLS SHALL HAVE EDGES ROUNDED, CHAMFERED OR EASED, TYP. SEE DETAIL 18/-.

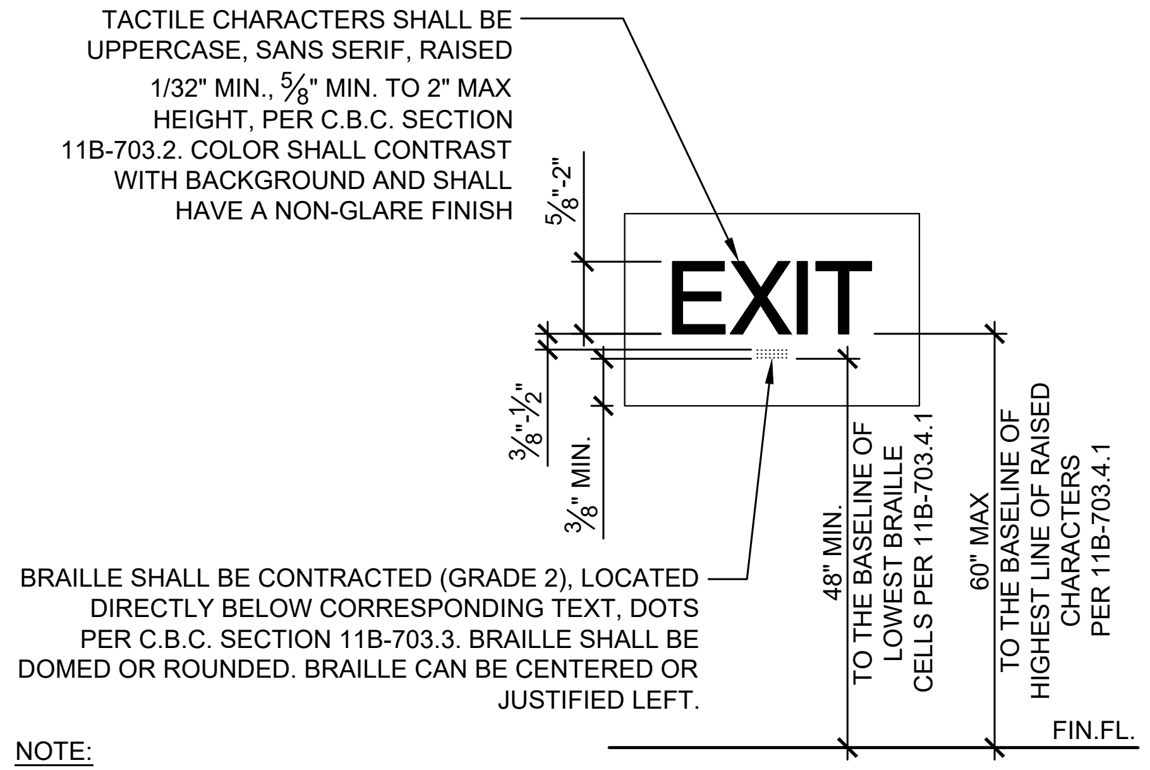
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6 - SEE DETAIL 18/-
5. UNISEX DOOR SYMBOL SHALL BE PROVIDED WITHOUT TEXT, BRAILLE OR THE USE OF A PICTOGRAM PER DSA BU 17-01
6. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

DOOR MOUNTED RESTROOM SYMBOLS-UNISEX
NOT TO SCALE 8


6"
1/2"
5"
1/2"
1/2"
6"
5"
1/2"
+5'-0" A.F.F.
+4'-0" A.F.F. WHEN TWO SIGNS ARE REQUIRED
INTERNATIONAL SYMBOL OF ACCESSIBILITY: WHITE FIGURE ON BLUE BACKGROUND, AND HAVE A NON-GLARE FINISH.

NOTES:
1. PROVIDE MECHANICAL MOUNTING w/VANDAL RESISTANT FASTENERS. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.
2. SYMBOL PER C.B.C. SECTION 11B-703.7.2.1
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

INT'L SYMBOL OF ACCESSIBILITY
NOT TO SCALE 9


TACTILE CHARACTERS SHALL BE UPPERCASE, SANS SERIF, RAISED 1/32" MIN., 5/8" MIN. TO 2" MAX HEIGHT, PER C.B.C. SECTION 11B-703.2. COLOR SHALL CONTRAST WITH BACKGROUND AND SHALL HAVE A NON-GLARE FINISH
5/8"-2"
EXIT
3/8"-1/2"
3/8" MIN.
48" MIN. TO THE BASELINE OF LOWEST BRAILLE CELLS PER 11B-703.4.1
60" MAX TO THE BASELINE OF HIGHEST LINE OF RAISED CHARACTERS PER 11B-703.4.1
BRAILLE SHALL BE CONTRACTED (GRADE 2), LOCATED DIRECTLY BELOW CORRESPONDING TEXT, DOTS PER C.B.C. SECTION 11B-703.3. BRAILLE SHALL BE DOMED OR ROUNDED. BRAILLE CAN BE CENTERED OR JUSTIFIED LEFT.
FIN.FL.

NOTE:
1. PER 11B-216, NEW OR ALTERED SIGNAGE SHALL COMPLY WITH C.B.C. SECTION 11B-703.
2. FOR REQUIRED TACTILE AND NON-TACTILE SIGNS LOCATIONS, SEE SHEET N2.0, ACCESSIBILITY STANDARDS, "SECTION 11B-216".
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ATTACH SIGNS USING ADHESIVE OR MIN (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
5. SIGN TO BE PLACED PER DETAIL 4/-

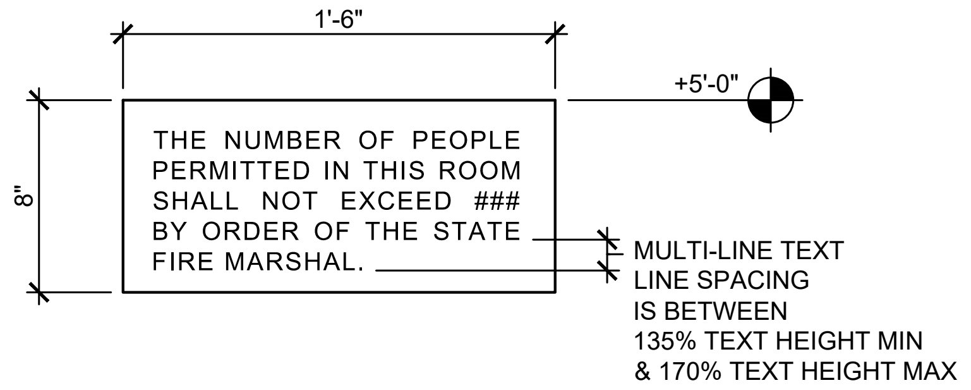
TACTILE SIGNAGE REQUIREMENTS
NOT TO SCALE 10

A. TYPESTYLE: 1" HIGH BLOCK 1/16" THICK ENGRAVED PLASTIC.

B. MOUNTING: (4) #8x1" SCREWS OR SELF-ADHESIVE. HEIGHT AS SHOWN.

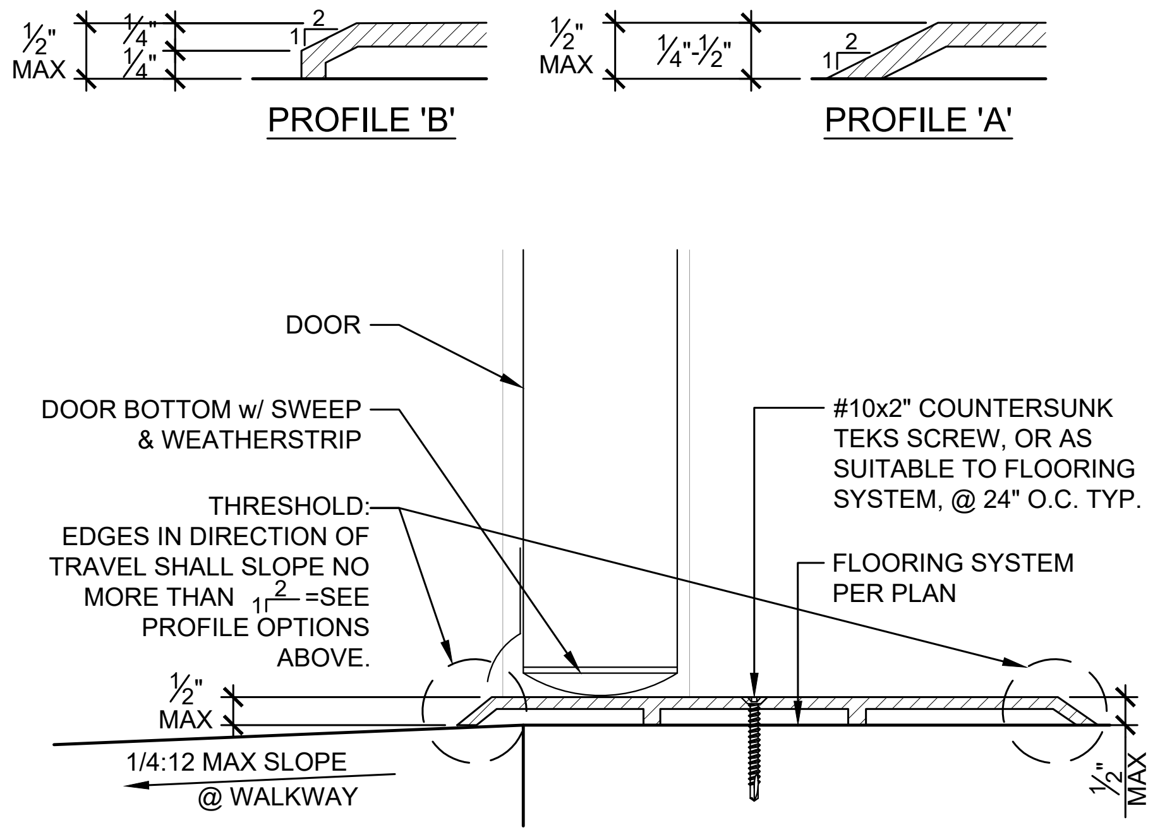
C. CAPACITY POSTING PER C.B.C. SECTION 1004.3 TITLE 19 C.C.R., SECTION 3.30: "THIS ROOM SHALL BE POSTED WITH A DURABLE SIGN NEAR THE MAIN EXIT FROM THE ROOM".

D. THE SIGN SHALL BE WORDED AS FOLLOWS, WITH THE APPROPRIATE CAPACITY NUMBER LISTED:

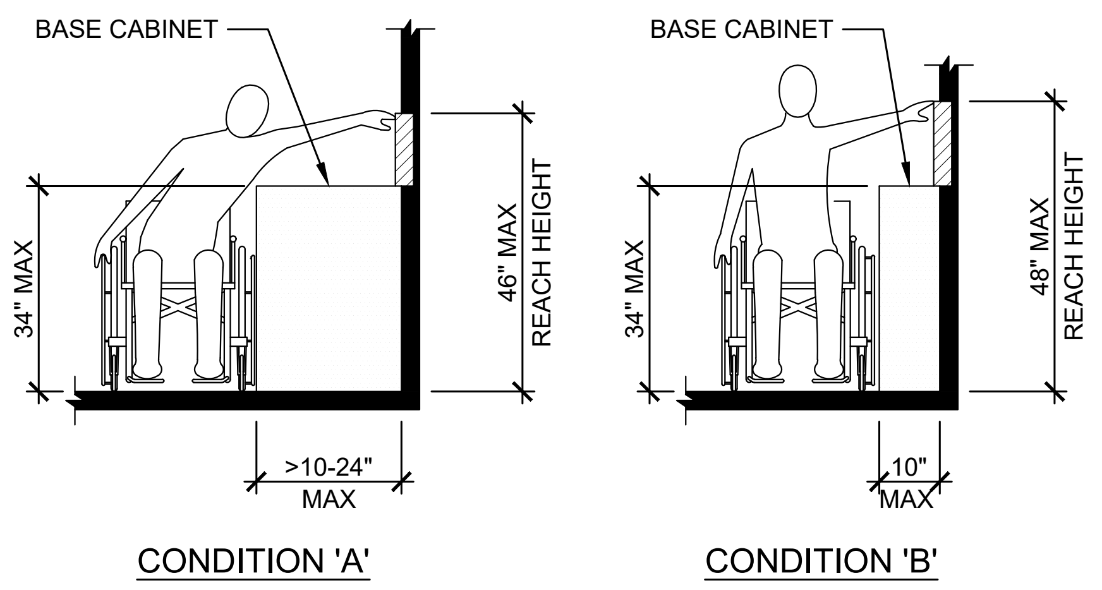

1'-6"
+5'-0"
8"
THE NUMBER OF PEOPLE PERMITTED IN THIS ROOM SHALL NOT EXCEED ### BY ORDER OF THE STATE FIRE MARSHAL.
MULTI-LINE TEXT LINE SPACING IS BETWEEN 135% TEXT HEIGHT MIN & 170% TEXT HEIGHT MAX

NOTES:
1. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
2. 11B-216.3 SIGNS THAT PROVIDE INFORMATION ABOUT INTERIOR SPACES SHALL COMPLY WITH SECTION 11B-703.5

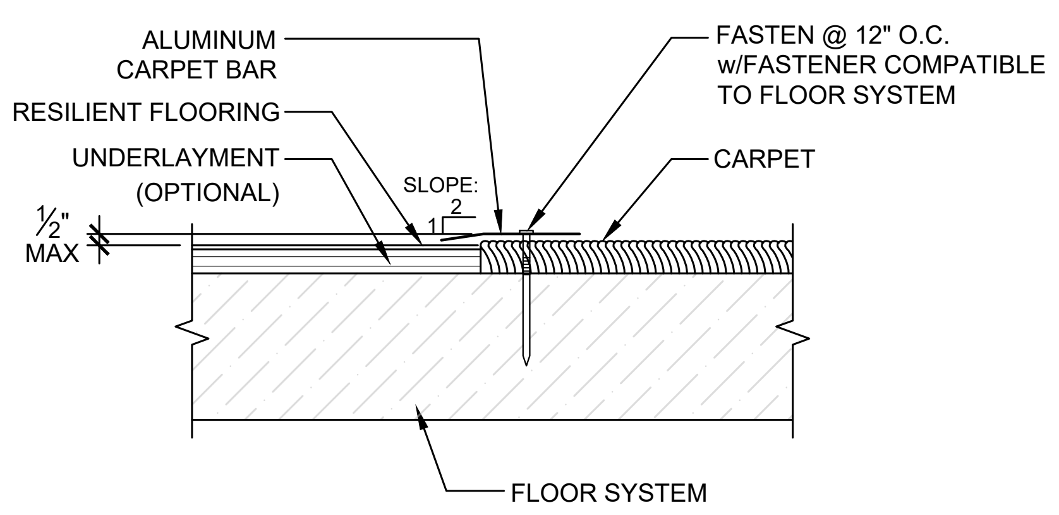
OCCUPANT LOAD SIGN
NOT TO SCALE 11


1/2" MAX
1/4"
1/4"
2
1
PROFILE 'B'
1/2" MAX
1/4"-1/2"
1
2
PROFILE 'A'
DOOR
DOOR BOTTOM w/ SWEEP & WEATHERSTRIP
THRESHOLD: EDGES IN DIRECTION OF TRAVEL SHALL SLOPE NO MORE THAN 1:2 =SEE PROFILE OPTIONS ABOVE.
#10x2" COUNTERSUNK TEKS SCREW, OR AS SUITABLE TO FLOORING SYSTEM, @ 24" O.C. TYP.
FLOORING SYSTEM PER PLAN
1/2" MAX
1/4:12 MAX SLOPE @ WALKWAY
1/2" MAX

THRESHOLD @ EXTERIOR DOOR
NOT TO SCALE 12



SIDE REACH AT BASE CABINET
NOT TO SCALE 13



FLOORING TRANSITION DETAIL
NOT TO SCALE 14

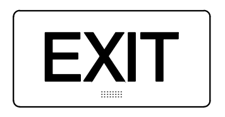
ACCESSIBLE MEANS OF EGRESS SHALL BE PROVIDED AT THE FOLLOWING:
(PER CBC 1009.10)

SIGN REQUIREMENTS PER DETAIL 10/- & 16/-

- AT EXIT WAYS (PER C.B.C. 1013.4)
  1. AT EACH GRADE LEVEL EXTERIOR EXIT DOOR
  2. AT AN EXIT BY MEANS OF A RAMP ("EXIT RAMP DOWN")
  3. AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGEWAY, CORRIDOR, HALLWAY, ETC.

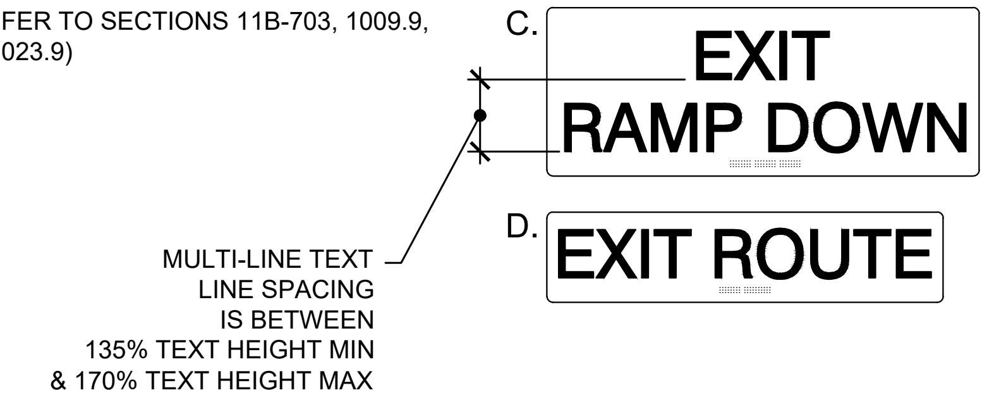
SIGNAGE PER C.B.C. SECTION 11B-216.
(ALSO REFER TO SECTIONS 11B-703, 1009.9, 1009.10, 1023.9)

A.



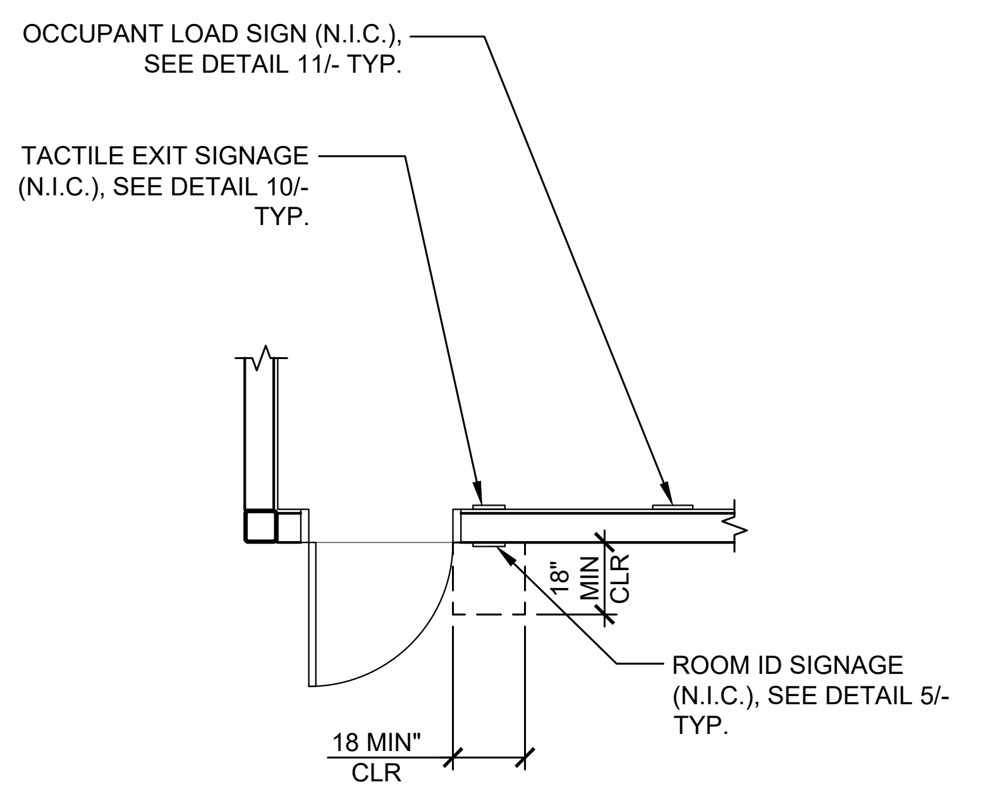
B. NOT USED.

C.


EXIT RAMP DOWN
D.
EXIT ROUTE
MULTI-LINE TEXT LINE SPACING IS BETWEEN 135% TEXT HEIGHT MIN & 170% TEXT HEIGHT MAX

NOTE:
1. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

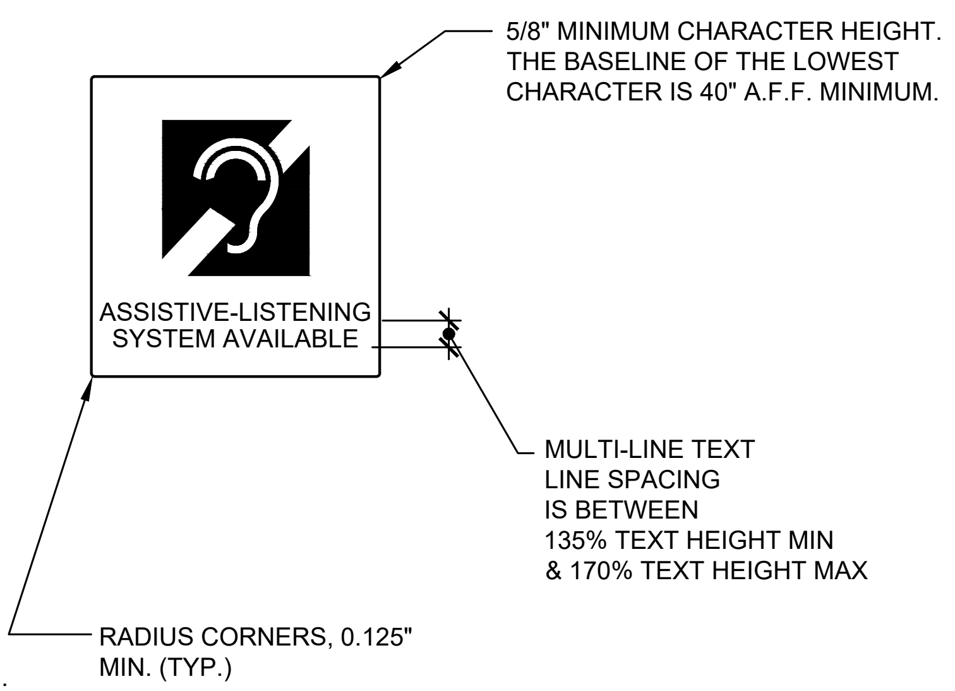
EGRESS SIGNAGE
NOT TO SCALE 15


OCCUPANT LOAD SIGN (N.I.C.), SEE DETAIL 11/- TYP.
TACTILE EXIT SIGNAGE (N.I.C.), SEE DETAIL 10/- TYP.
18" MIN CLR
ROOM ID SIGNAGE (N.I.C.), SEE DETAIL 5/- TYP.
18 MIN" CLR

NOTE:

18" MIN CLEAR FLOOR SPACE SHALL BE CENTERED ON THE TACTILE CHARACTERS OF THE SIGN PER 11B-703.4.4.2

TYPICAL CLASSROOM SIGNAGE LOCATION
NOT TO SCALE 16


5/8" MINIMUM CHARACTER HEIGHT. THE BASELINE OF THE LOWEST CHARACTER IS 40" A.F.F. MINIMUM.
ASSISTIVE-LISTENING SYSTEM AVAILABLE
MULTI-LINE TEXT LINE SPACING IS BETWEEN 135% TEXT HEIGHT MIN & 170% TEXT HEIGHT MAX
RADIUS CORNERS, 0.125" MIN. (TYP.)

NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE AT OR NEAR THE ENTRANCE IN A PROMINENT PLACE. (11B-216.10)
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. SYMBOL PER CBC SECTION 11B-703.7.2.4
5. THE SIGN SHALL COMPLY WITH 11B-703.5 AND TABLE 11B-703.5.5.
6. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

ASSISTIVE LISTENING SIGN
NOT TO SCALE 17

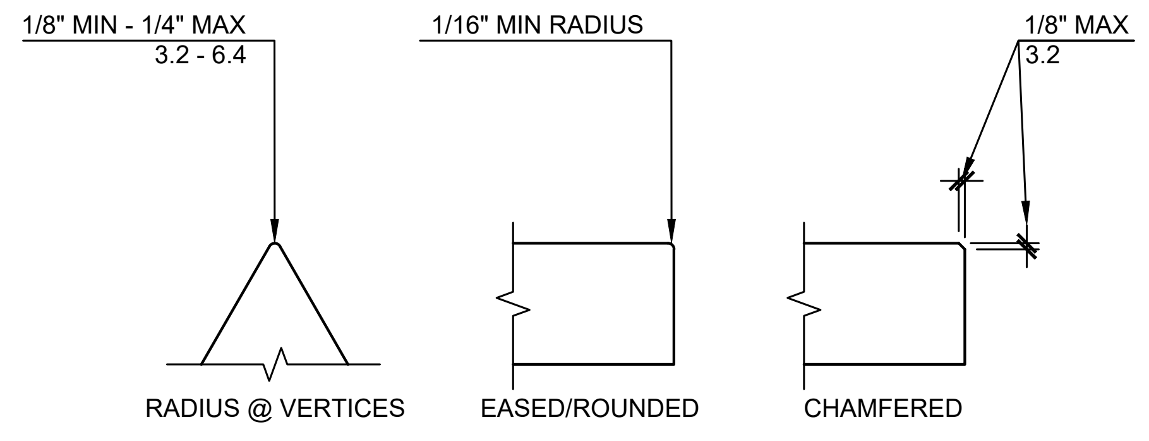
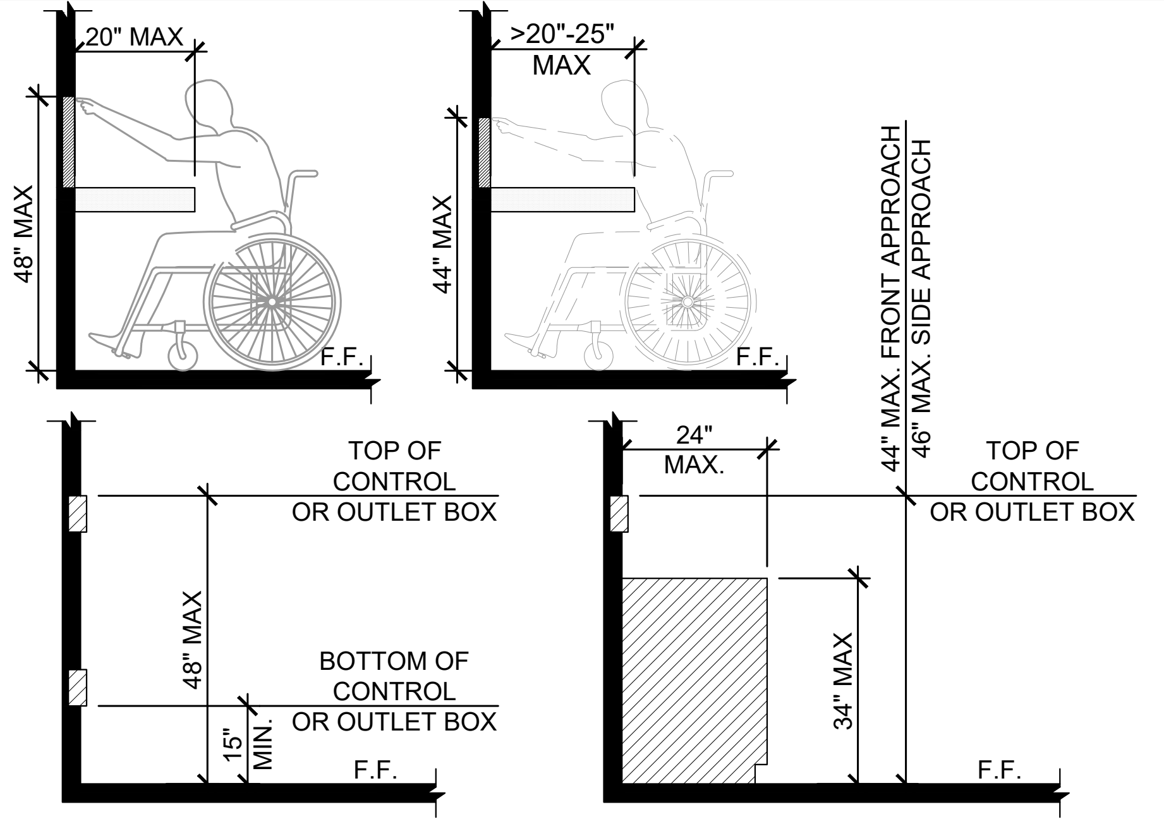


FIGURE 11B-703.7.2.6.4
EDGES AND VERTICES ON GEOMETRIC SYMBOLS

NOTES:
1. FIGURE PER 11B-703.7.2.6.4

VERTICES ON GEMETRIC SYMBOLS
NOT TO SCALE 18



NOTES:
1. COMPLY WITH CBC 11B-308.2.2 AND 11B-308.3.2
2. FORWARD OR FRONT APPROACH FOR DEVICES MOUNTED ABOVE A COUNTER ASSUMES THAT DIRECTLY BELOW THE DEVICE, THE COUNTER HAS A 30" MINIMUM WIDTH x 27" MINIMUM HEIGHT x A CLEAR DEPTH EQUAL TO THE DEPTH OF THE COUNTER NOT TO EXCEED 24".

DEVICE MOUNTING OVER OBSTRUCTION DETAIL
SCALE: 1-1/2" = 1'-0" 19

SIGNS AND IDENTIFICATION DEVICES SHALL BE FIELD INSPECTED AFTER INSTALLATION AND APPROVED BY THE ENFORCING AGENCY PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY PER CHAPTER 1, DIVISION II, SECTION 111, OR FINAL APPROVAL WHERE NO CERTIFICATE OF OCCUPANCY IS ISSUED. THE INSPECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFICATION THAT BRAILLE DOTS AND CELLS ARE PROPERLY SPACED AND THE SIZE, PROPORTION AND TYPE OF RAISED CHARACTERS ARE IN COMPLIANCE WITH THESE REGULATIONS PER CBC SECTION 11B-703.1.1.2

SHEET NOTES
20

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DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

FORM®

SITE SPECIFIC PROJECT NAME
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.
.

~~APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122042 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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

REVISIONS
1
2
3
4

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

SHEET TITLE:
ACCESSIBILITY STANDARDS AND DETAILS

SHEET NUMBER:
N4.0

PC DESIGN REVIEW INFORMATION

Title 24-2022, Part 6, Energy Code

Model Name and Option:	AMS 12x40	Calculation Date/Time of Energy Report:	9/21/2023
Total Floor Area:	480	DSA Application:	
HVAC System Type:	VSHP		

CZ Group	Climate Zone 16 Blue Canyon	Metric	Standard Design	Proposed Design	Margin	Worst Case
~~A~~		~~TDV-E~~	~~445.5~~	~~348.3~~	~~97.2~~	
	~~30°~~	~~TDV-T~~	~~445.5~~	~~348.3~~	~~97.2~~	
		~~SOURCE~~	~~66.0~~	~~33.7~~	~~32.3~~	
		~~TDV-E~~	~~462.5~~	~~353.9~~	~~108.6~~	
	~~75°~~	~~TDV-T~~	~~462.5~~	~~353.9~~	~~108.6~~	
		~~SOURCE~~	~~66.9~~	~~34.2~~	~~32.6~~	
		~~TDV-E~~	~~448.1~~	~~353.8~~	~~94.3~~	
	~~120°~~	~~TDV-T~~	~~448.1~~	~~353.8~~	~~94.3~~	
		~~SOURCE~~	~~66.3~~	~~34.4~~	~~32.0~~	
		~~TDV-E~~	~~416.6~~	~~346.8~~	~~69.9~~	~~Worst Case~~
	~~165°~~	~~TDV-T~~	~~416.6~~	~~346.8~~	~~69.9~~	~~Worst Case~~
		~~SOURCE~~	~~64.8~~	~~33.7~~	~~31.1~~	~~Worst Case~~
		~~TDV-E~~	~~431.7~~	~~348.3~~	~~83.5~~	
	~~210°~~	~~TDV-T~~	~~431.7~~	~~348.3~~	~~83.5~~	
		~~SOURCE~~	~~65.6~~	~~33.7~~	~~31.8~~	
		~~TDV-E~~	~~455.7~~	~~353.5~~	~~102.3~~	
	~~255°~~	~~TDV-T~~	~~455.7~~	~~353.5~~	~~102.3~~	
		~~SOURCE~~	~~66.4~~	~~34.2~~	~~32.2~~	
		~~TDV-E~~	~~434.8~~	~~353.0~~	~~81.8~~	
	~~300°~~	~~TDV-T~~	~~434.8~~	~~353.0~~	~~81.8~~	
		~~SOURCE~~	~~65.4~~	~~34.2~~	~~31.2~~	
		~~TDV-E~~	~~428.0~~	~~346.0~~	~~82.1~~	
	~~345°~~	~~TDV-T~~	~~428.0~~	~~346.0~~	~~82.1~~	
		~~SOURCE~~	~~64.8~~	~~33.5~~	~~31.3~~	

CZ Group	Climate Zone 05 Santa Maria	Azimuth (Front Orientation)	Standard Design	Proposed Design	Margin	Worst Case
B		TDV-E	310.3	187.6	122.7	
	30°	TDV-T	310.3	187.6	122.7	
		SOURCE	29.1	19.1	10.0	
		TDV-E	311.3	188.0	123.2	
	75°	TDV-T	311.3	188.0	123.2	
		SOURCE	29.2	19.1	10.1	
		TDV-E	289.3	186.3	102.9	
	120°	TDV-T	289.3	186.3	102.9	
		SOURCE	27.4	19.1	8.3	
		TDV-E	284.1	184.0	100.1	
	165°	TDV-T	284.1	184.0	100.1	
		SOURCE	27.1	18.9	8.2	
		TDV-E	297.5	186.2	111.3	
	210°	TDV-T	297.5	186.2	111.3	
		SOURCE	28.1	19.0	9.1	
		TDV-E	298.4	186.5	111.9	
	255°	TDV-T	298.4	186.5	111.9	
		SOURCE	28.1	19.0	9.1	
		TDV-E	280.9	185.7	95.2	Worst Case
	300°	TDV-T	280.9	185.7	95.2	Worst Case
		SOURCE	26.6	18.9	7.7	Worst Case
		TDV-E	293.7	184.6	109.1	
	345°	TDV-T	293.7	184.6	109.1	
		SOURCE	27.7	18.8	8.9	

CZ Group	Climate Zone 13 Fresno	Azimuth (Front Orientation)	Standard Design	Proposed Design	Margin	Worst Case
C		TDV-E	447.2	319.3	127.9	
	30°	TDV-T	447.2	319.3	127.9	
		SOURCE	35.8	24.7	11.1	
		TDV-E	476.0	333.6	142.3	
	75°	TDV-T	476.0	333.6	142.3	
		SOURCE	37.7	25.4	12.4	
		TDV-E	461.9	330.8	131.1	
	120°	TDV-T	461.9	330.8	131.1	
		SOURCE	36.7	25.3	11.4	
		TDV-E	411.9	313.1	98.8	Worst Case
	165°	TDV-T	411.9	313.1	98.8	Worst Case
		SOURCE	33.0	24.3	8.7	Worst Case
		TDV-E	433.1	317.3	115.8	
	210°	TDV-T	433.1	317.3	115.8	
		SOURCE	34.8	24.7	10.1	
		TDV-E	460.7	331.0	129.7	
	255°	TDV-T	460.7	331.0	129.7	
		SOURCE	36.6	25.3	11.3	
		TDV-E	449.5	328.9	120.5	
	300°	TDV-T	449.5	328.9	120.5	
		SOURCE	35.7	25.2	10.5	
		TDV-E	421.1	313.0	108.1	
	345°	TDV-T	421.1	313.0	108.1	
		SOURCE	33.7	24.2	9.5	

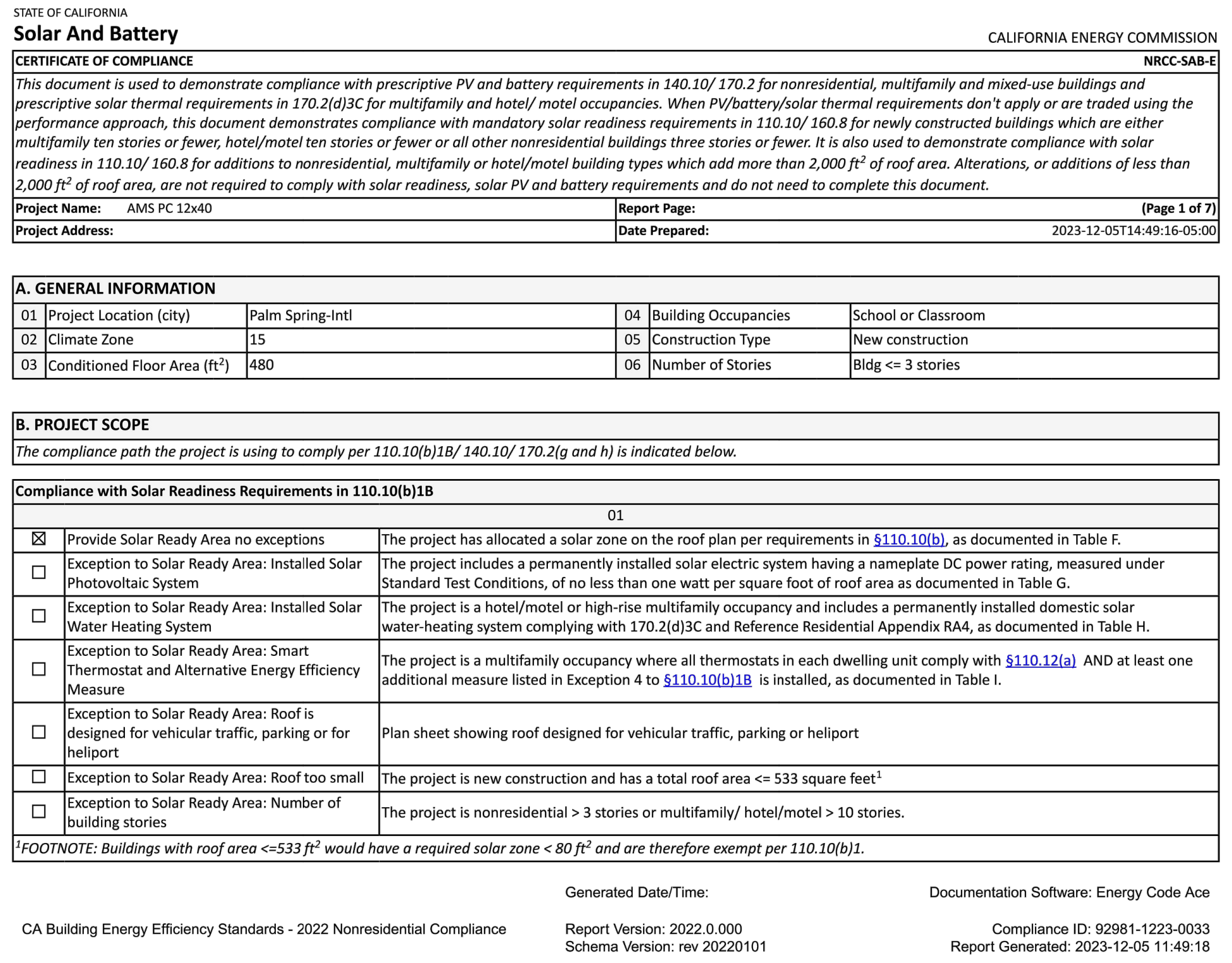
CZ Group	Climate Zone 15 Palm Spring-Intl	Azimuth (Front Orientation)	Standard Design	Proposed Design	Margin	Worst Case
D		TDV-E	496.6	366.3	130.3	
	30°	TDV-T	496.6	366.3	130.3	
		SOURCE	35.9	23.5	12.5	
		TDV-E	524.2	378.5	145.7	
	75°	TDV-T	524.2	378.5	145.7	
		SOURCE	37.9	24.1	13.8	
		TDV-E	474.5	374.5	100.0	
	120°	TDV-T	474.5	374.5	100.0	
		SOURCE	34.5	23.7	10.8	
		TDV-E	458.2	358.3	99.8	
	165°	TDV-T	458.2	358.3	99.8	
		SOURCE	32.7	22.8	9.9	Worst Case
		TDV-E	481.4	363.7	117.7	
	210°	TDV-T	481.4	363.7	117.7	
		SOURCE	34.8	23.4	11.4	
		TDV-E	471.1	376.2	94.8	Worst Case
	255°	TDV-T	471.1	376.2	94.8	Worst Case
		SOURCE	34.3	24.0	10.4	
		TDV-E	503.5	374.0	129.5	
	300°	TDV-T	503.5	374.0	129.5	
		SOURCE	36.0	23.7	12.3	
		TDV-E	469.3	359.7	109.6	
	345°	TDV-T	469.3	359.7	109.6	
		SOURCE	33.5	22.8	10.7	

AMS 12x40

CZ Group	Climate Zone	Reference City	Roof Rigid R-value[1]	Ground Floor R-value[2]	Metal Stud Wall R-value[3]	Window U-factor[4]	Window SHGC[4]	Air Barrier (Y/N)	Cool Roof (Y/N)	CO Sensor (Y/N)	FC-1 Unit Type[5]	Number of FC-1 Units[6]	OSA per FC-1 (cfm)[7]	FC-2 Unit Type[5]	Number of FC-2 Units[6]	OSA per FC-2 (cfm)[7]	Design PV (kW DC)
~~A~~	~~CZ01~~	~~Arcata~~	~~R-15 ci~~	~~R-5 ci~~	~~R-5 ci~~	~~0.42~~	~~0.25~~	~~Y~~	~~N~~	~~N~~	~~W42HC~~	~~1~~	~~182.4~~	~~na~~	~~0~~	~~na~~	~~0.0~~
	~~**CZ16**~~	~~**Blue Canyon**~~															
B	CZ02	Santa Rosa	R-5 ci	na	R-5 ci	0.42	0.25	Y	N	N	W42HC	1	182.4	na	0	na	0.0
	CZ03	Oakland															
	CZ04	San Jose-Reid															
	CZ05	**Santa Maria**															
C	CZ06	Torrance	R-5 ci	na	R-5 ci	0.42	0.25	Y	N	N	W42HC	1	182.4	na	0	na	0.0
	CZ07	San Diego-Lindbergh															
	CZ08	Fullerton															
	CZ09	Burbank-Glendale															
	CZ10	Riverside															
	CZ11	Red Bluff															
	CZ12	Sacramento															
	CZ13	**Fresno**															
D	CZ14	Palmdale	R-5 ci	na	R-5 ci	0.42	0.25	Y	N	N	W42HC	1	182.4	na	0	na	0.0
	CZ15	**Palm Spring-Intl**															

HVAC Specification Table

Bard W18H-W60H Series Wall-Mount	Capacity (Ton)	Cooling (Btu/h)	Heating (Btu/h)	Supply Fan CV/VFD	Supply Fan (CFM)	Supply Fan (HP)	Cooling Efficiency (EER)	Heating Efficiency (COP)
W42HC	3.5	42,000	39,000	CV	1,350	0.50	11.0	3.3
W48HC	4.0	47,500	42,500	CV	1,550	0.75	11	3.3
W60HC	4.5	54,500	52,500	CV	1,750	0.75	11.0	3.3
Systemair Sophomore								
SysAir 3T	3.0	35,600	32,400	VFD	1,100	0.50	11.1	3.41
SysAir 4T	4.0	47,500	44,800	VFD	1,600	0.50	11.0	3.54
SysAir 5T	5.0	57,100	56,200	VFD	1,800	0.75	11.0	3.39



STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-SAB-E**

This document is used to demonstrate compliance with prescriptive PV and battery requirements in 140.10/ 170.2 for nonresidential, multifamily and mixed-use buildings and prescriptive solar thermal requirements in 170.2(d)3C for multifamily and hotel/ motel occupancies. When PV/battery/solar thermal requirements don't apply or are traded using the performance approach, this document demonstrates compliance with mandatory solar readiness requirements in 110.10/ 160.8 for newly constructed buildings which are either multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with solar readiness in 110.10/ 160.8 for additions to nonresidential, multifamily or hotel/motel building types which add more than 2,000 ft² of roof area. Alterations, or additions of less than 2,000 ft² of roof area, are not required to comply with solar readiness, solar PV and battery requirements and do not need to complete this document.

Project Name:	AMS PC 12x40	**Report Page:**	**(Page 1 of 7)**
Project Address:		**Date Prepared:**	2023-12-05T14:49:16-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Palm Spring-Intl	04	Building Occupancies	School or Classroom
02	Climate Zone	15	05	Construction Type	New construction
03	Conditioned Floor Area (ft²)	480	06	Number of Stories	Bldg <= 3 stories

B. PROJECT SCOPE

The compliance path the project is using to comply per 110.10(b)1B/ 140.10/ 170.2(g and h) is indicated below.

Compliance with Solar Readiness Requirements in 110.10(b)1B

	01	
☒	Provide Solar Ready Area no exceptions	The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F.
☐	Exception to Solar Ready Area: Installed Solar Photovoltaic System	The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area as documented in Table G.
☐	Exception to Solar Ready Area: Installed Solar Water Heating System	The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H.
☐	Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure	The project is a multifamily occupancy where all thermostats in each dwelling unit comply with §110.12(a) AND at least one additional measure listed in Exception 4 to §110.10(b)1B is installed, as documented in Table I.
☐	Exception to Solar Ready Area: Roof is designed for vehicular traffic, parking or for heliport	Plan sheet showing roof designed for vehicular traffic, parking or heliport
☐	Exception to Solar Ready Area: Roof too small	The project is new construction and has a total roof area <= 533 square feet[1]
☐	Exception to Solar Ready Area: Number of building stories	The project is nonresidential > 3 stories or multifamily/ hotel/motel > 10 stories.

[1]*FOOTNOTE: Buildings with roof area <=533 ft² would have a required solar zone < 80 ft² and are therefore exempt per 110.10(b)1.*

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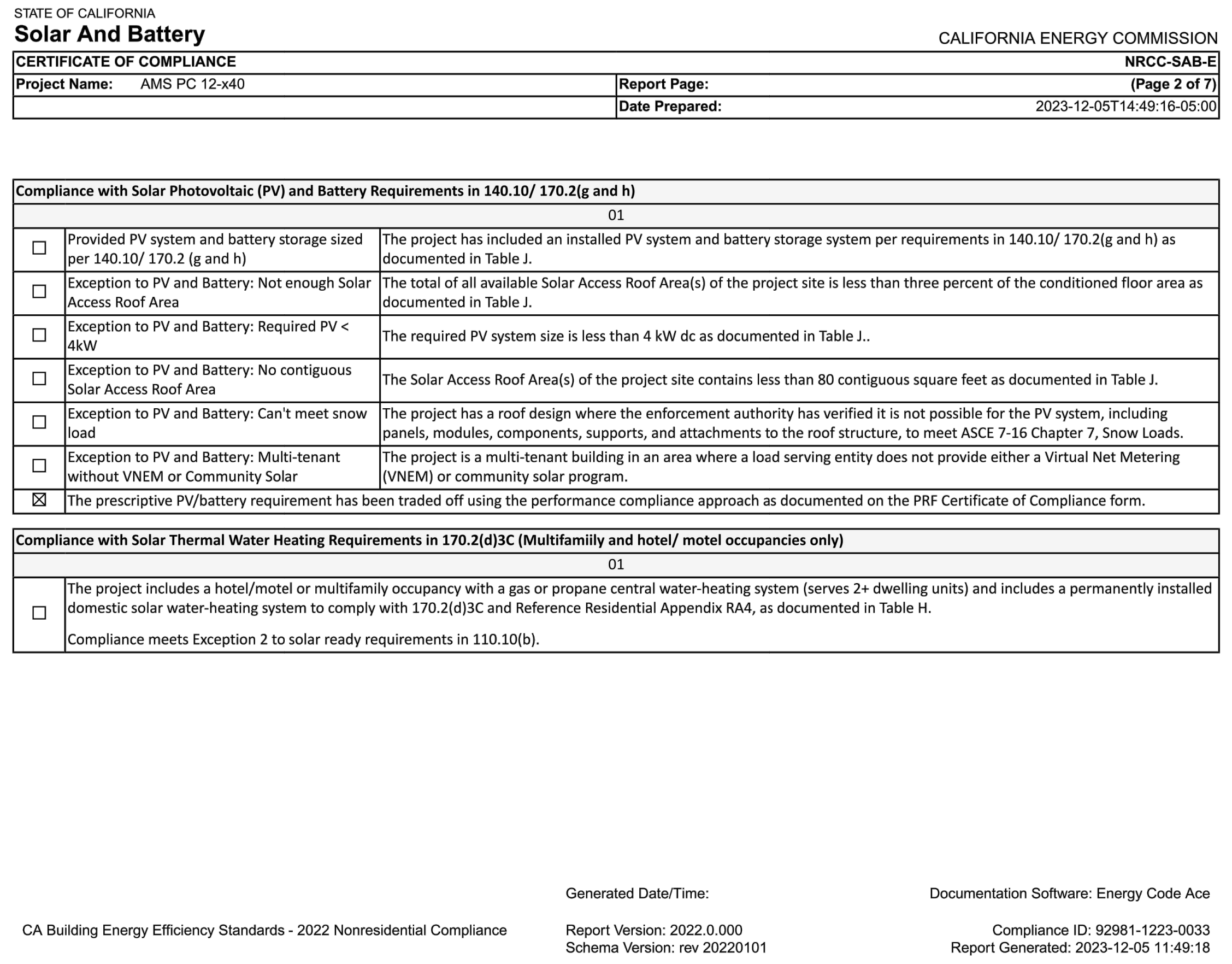

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CERTIFICATE OF COMPLIANCE			**NRCC-SAB-E**
Project Name:	AMS PC 12-x40	**Report Page:**	**(Page 2 of 7)**
		Date Prepared:	2023-12-05T14:49:16-05:00

Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/ 170.2(g and h)

	01	
☐	Provided PV system and battery storage sized per 140.10/ 170.2 (g and h)	The project has included an installed PV system and battery storage system per requirements in 140.10/ 170.2(g and h) as documented in Table J.
☐	Exception to PV and Battery: Not enough Solar Access Roof Area	The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as documented in Table J.
☐	Exception to PV and Battery: Required PV < 4kW	The required PV system size is less than 4 kW dc as documented in Table J..
☐	Exception to PV and Battery: No contiguous Solar Access Roof Area	The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J.
☐	Exception to PV and Battery: Can't meet snow load	The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads.
☐	Exception to PV and Battery: Multi-tenant without VNEM or Community Solar	The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program.
☒	The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form.	

Compliance with Solar Thermal Water Heating Requirements in 170.2(d)3C (Multifamiily and hotel/ motel occupancies only)

	01
☐	The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H. Compliance meets Exception 2 to solar ready requirements in 110.10(b).

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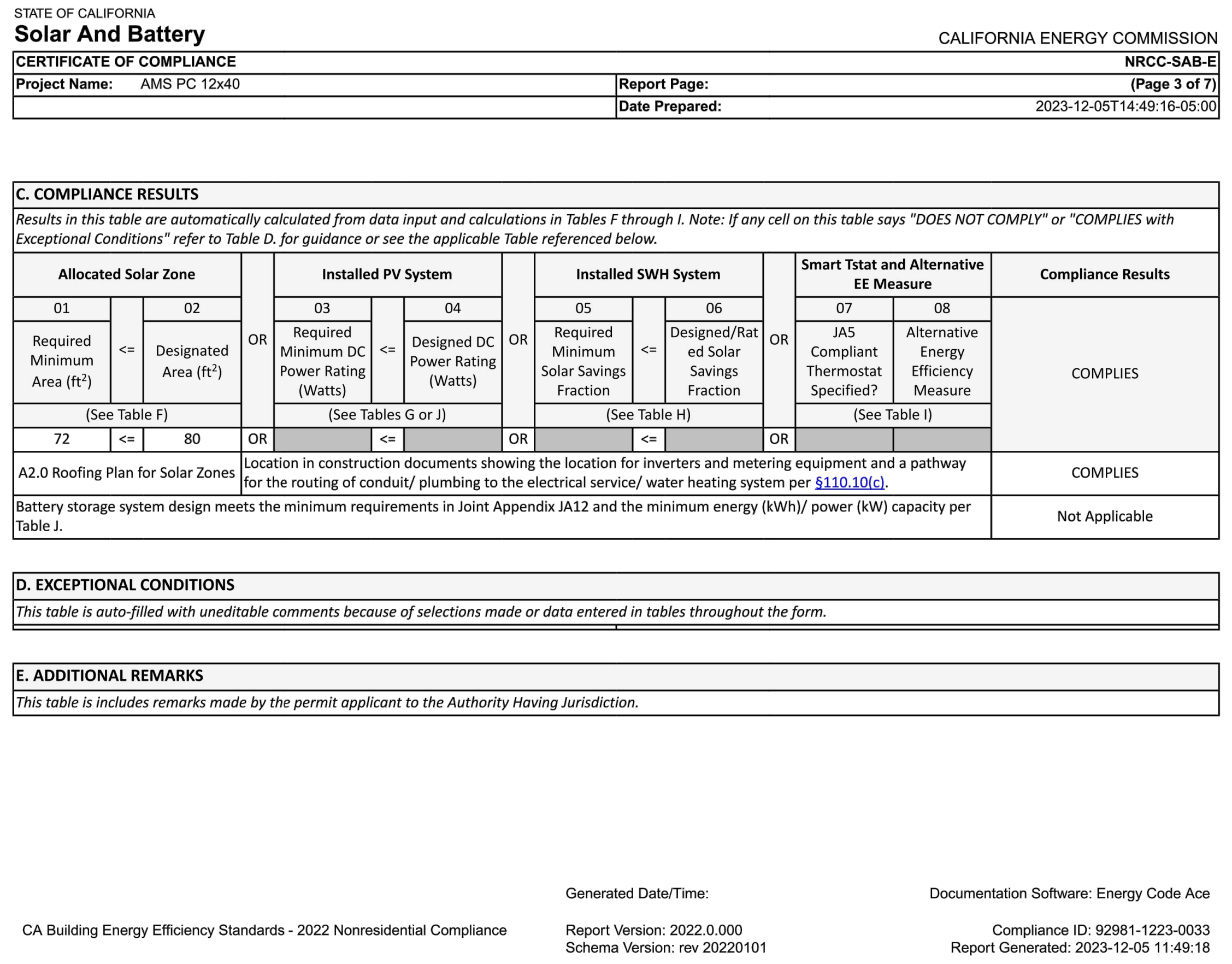

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CERTIFICATE OF COMPLIANCE			**NRCC-SAB-E**
Project Name:	AMS PC 12x40	**Report Page:**	**(Page 3 of 7)**
		Date Prepared:	2023-12-05T14:49:16-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance or see the applicable Table referenced below.

Allocated Solar Zone				Installed PV System				Installed SWH System				Smart Tstat and Alternative EE Measure		Compliance Results
01		02		03		04		05		06		07	08	
Required Minimum Area (ft²)	<=	Designated Area (ft²)	OR	Required Minimum DC Power Rating (Watts)	<=	Designed DC Power Rating (Watts)	OR	Required Minimum Solar Savings Fraction	<=	Designed/Rated Solar Savings Fraction	OR	JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	COMPLIES
(See Table F)				(See Tables G or J)				(See Table H)				(See Table I)		
72	<=	80	OR		<=		OR		<=		OR			
A2.0 Roofing Plan for Solar Zones				Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).										COMPLIES
Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table J.														Not Applicable

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

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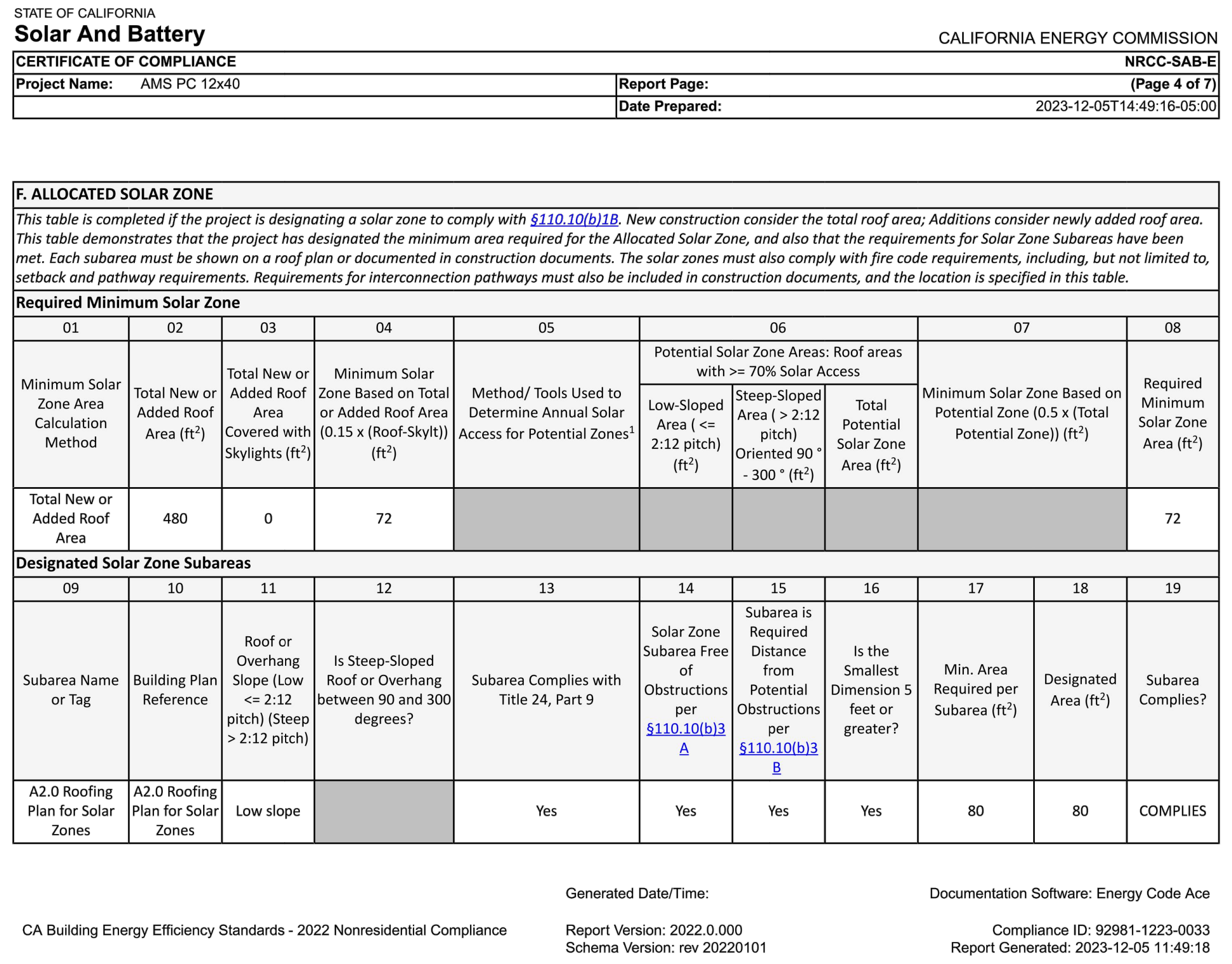

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CERTIFICATE OF COMPLIANCE			**NRCC-SAB-E**
Project Name:	AMS PC 12x40	**Report Page:**	**(Page 4 of 7)**
		Date Prepared:	2023-12-05T14:49:16-05:00

F. ALLOCATED SOLAR ZONE

This table is completed if the project is designating a solar zone to comply with §110.10(b)1B. New construction consider the total roof area; Additions consider newly added roof area. This table demonstrates that the project has designated the minimum area required for the Allocated Solar Zone, and also that the requirements for Solar Zone Subareas have been met. Each subarea must be shown on a roof plan or documented in construction documents. The solar zones must also comply with fire code requirements, including, but not limited to, setback and pathway requirements. Requirements for interconnection pathways must also be included in construction documents, and the location is specified in this table.

Required Minimum Solar Zone

01	02	03	04	05	06			07	08
					Potential Solar Zone Areas: Roof areas with >= 70% Solar Access				
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area Covered with Skylights (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Skylt)) (ft²)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones[1]	Low-Sloped Area (<= 2:12 pitch) (ft²)	Steep-Sloped Area (> 2:12 pitch) Oriented 90 ° - 300 ° (ft²)	Total Potential Solar Zone Area (ft²)	Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²)	Required Minimum Solar Zone Area (ft²)
Total New or Added Roof Area	480	0	72						72

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3 A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3 B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?
A2.0 Roofing Plan for Solar Zones	A2.0 Roofing Plan for Solar Zones	Low slope		Yes	Yes	Yes	Yes	80	80	COMPLIES

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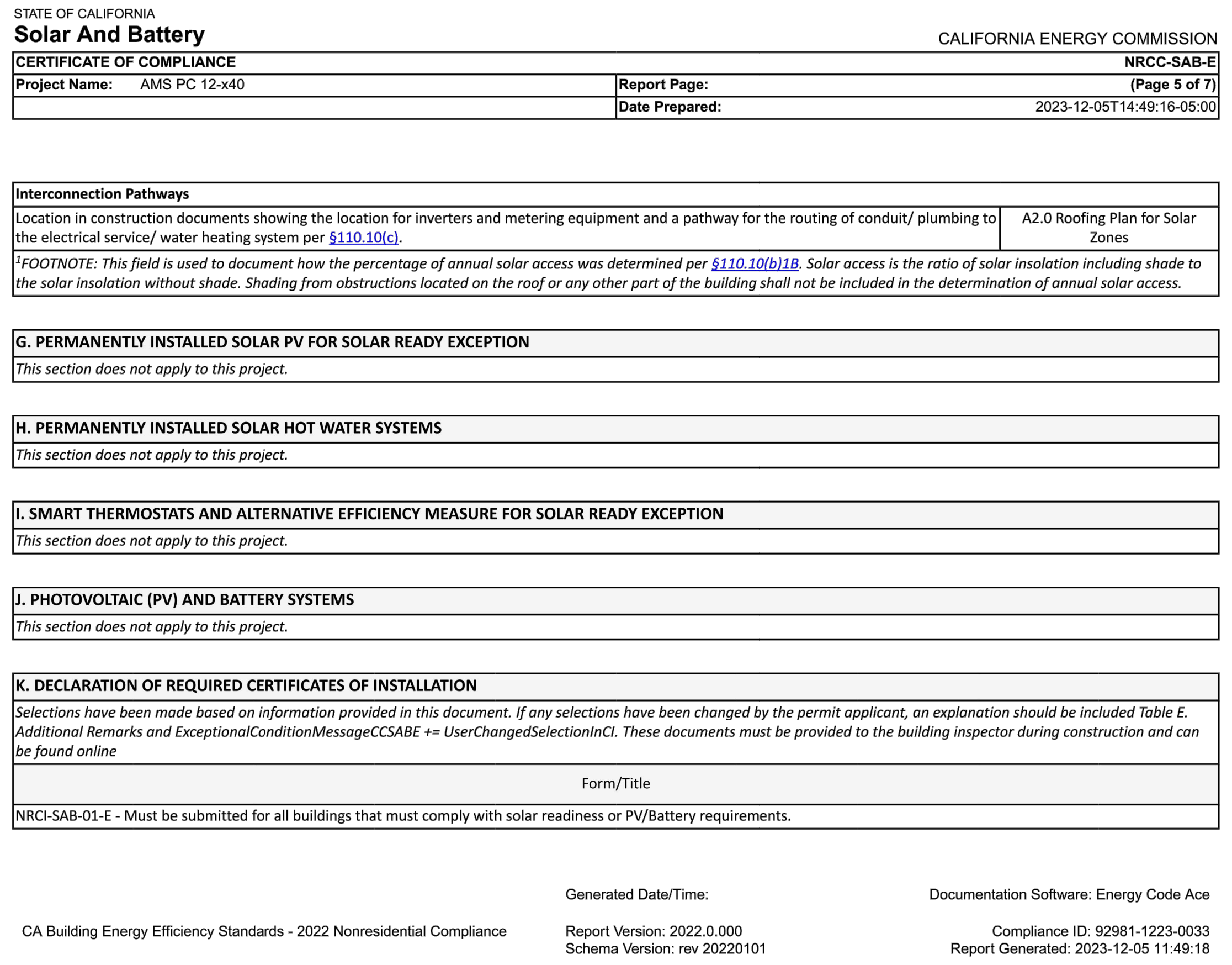

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CERTIFICATE OF COMPLIANCE			**NRCC-SAB-E**
Project Name:	AMS PC 12-x40	**Report Page:**	**(Page 5 of 7)**
		Date Prepared:	2023-12-05T14:49:16-05:00

Interconnection Pathways

Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).	A2.0 Roofing Plan for Solar Zones

[1]*FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per §110.10(b)1B. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.*

G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION

This section does not apply to this project.

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS

This section does not apply to this project.

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION

This section does not apply to this project.

J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This section does not apply to this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included Table E. Additional Remarks and ExceptionalConditionMessageCCSABE += UserChangedSelectionInCI. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

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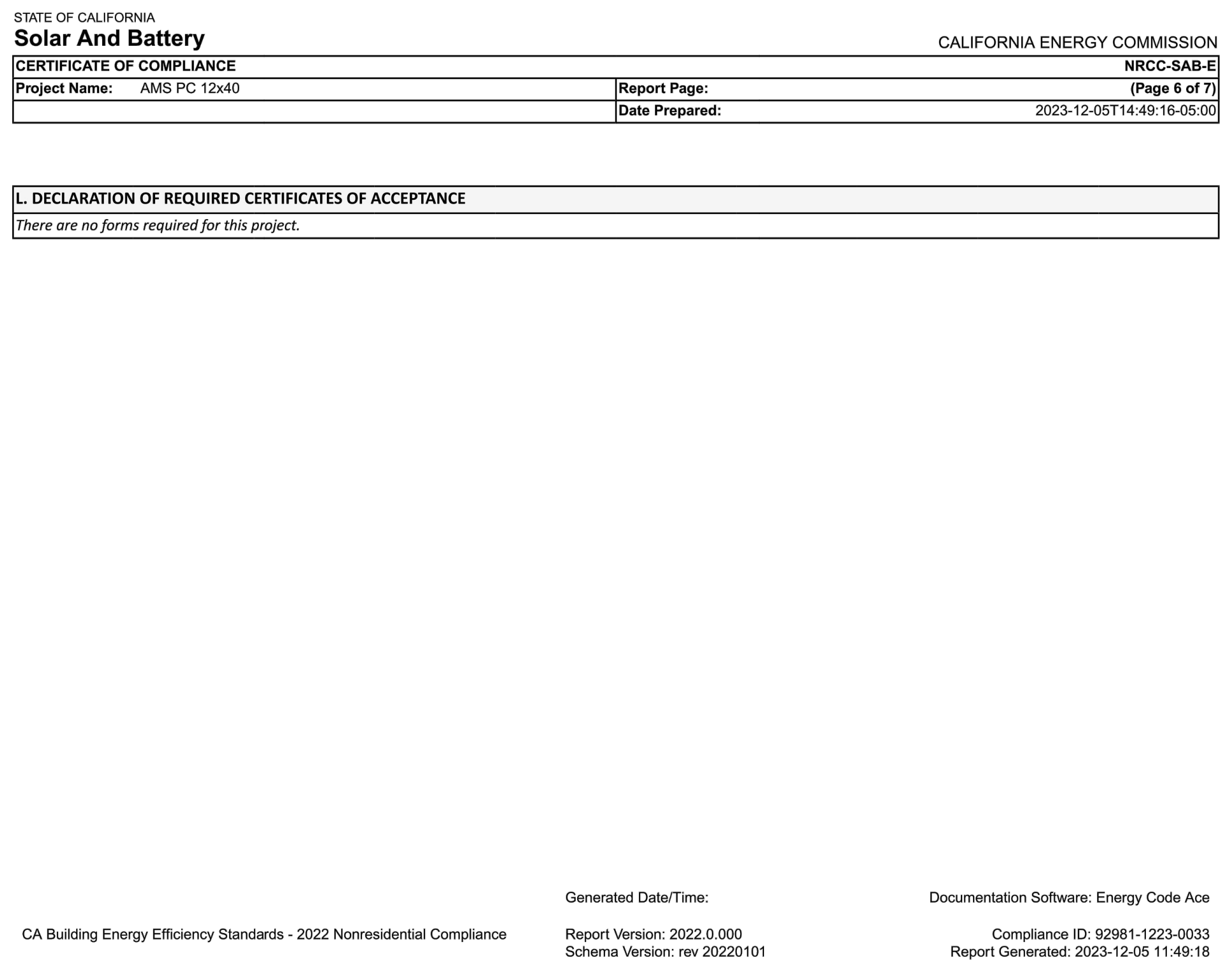
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 92981-1223-0033 Report Generated: 2023-12-05 11:49:18



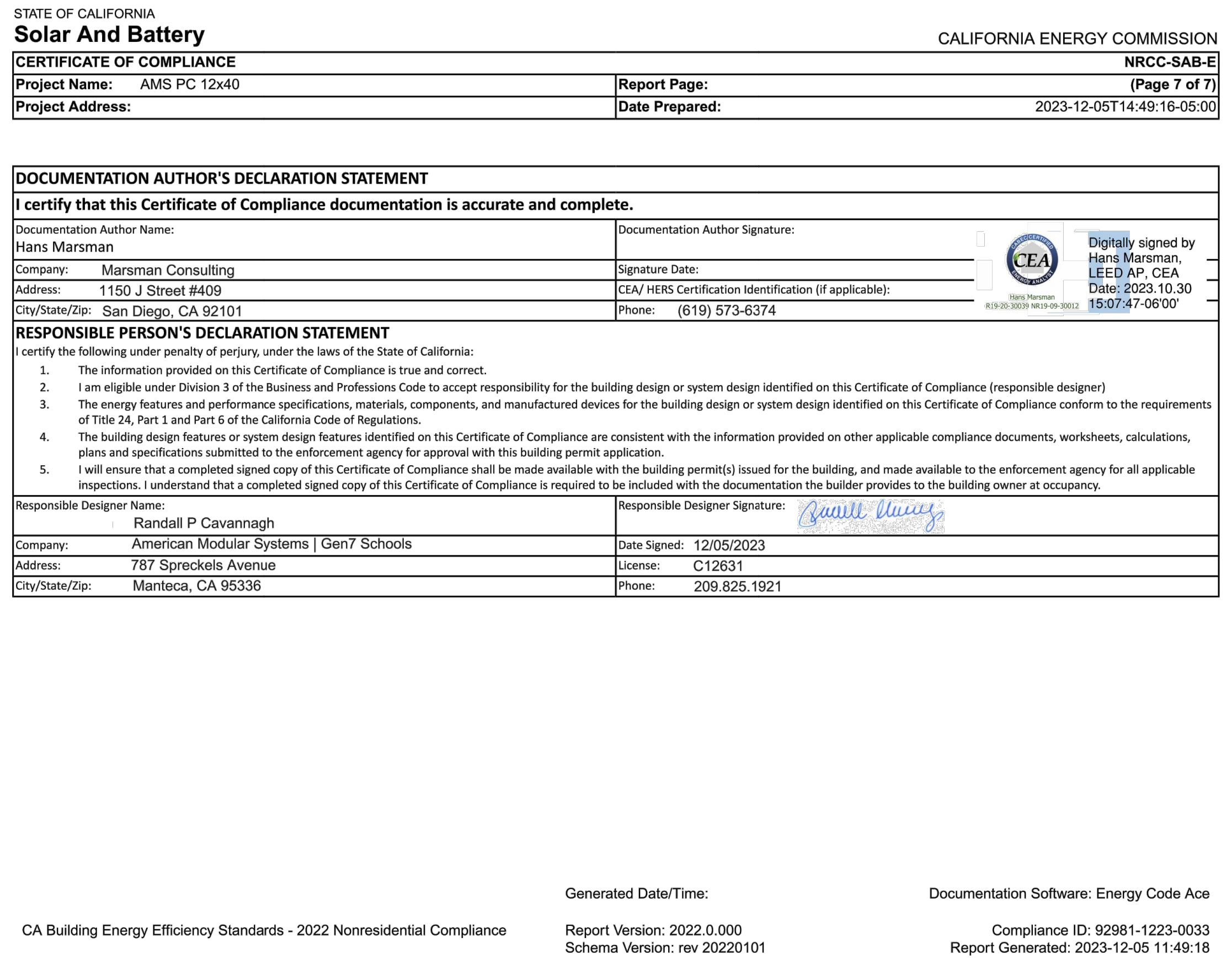
STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-SAB-E**
Project Name:	AMS PC 12x40	**Report Page:**	**(Page 6 of 7)**
		Date Prepared:	2023-12-05T14:49:16-05:00

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 92981-1223-0033 Report Generated: 2023-12-05 11:49:18



STATE OF CALIFORNIA
Solar And Battery
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-SAB-E**
Project Name:	AMS PC 12x40	**Report Page:**	**(Page 7 of 7)**
Project Address:		**Date Prepared:**	2023-12-05T14:49:16-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Hans Marsman	Documentation Author Signature:	Digitally signed by Hans Marsman, LEED AP, CEA Date: 2023.10.30 15:07:47-06'00'
Company:	Marsman Consulting	Signature Date:	
Address:	1150 J Street #409	CEA/ HERS Certification Identification (if applicable):	Hans Marsman R19-20-30039 NR19-09-30012
City/State/Zip:	San Diego, CA 92101	Phone:	(619) 573-6374

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name:	Randall P Cavannagh	Responsible Designer Signature:	
Company:	American Modular Systems | Gen7 Schools	Date Signed:	12/05/2023
Address:	787 Spreckels Avenue	License:	C12631
City/State/Zip:	Manteca, CA 95336	Phone:	209.825.1921

Generated Date/Time: Documentation Software: Energy Code Ace
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DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-XX

SHEET TITLE:

ENERGY CALCULATIONS SUMMATIONS

SHEET NUMBER:

EN.1

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

Nonresidential Performance Compliance Method (Page 1 of 18)

Project Name: AMS PC 12x40 **Date Prepared:** 2023-09-21

A. General Information

1	Project Name	AMS PC 12x40			
2	Run Title	Title 24 Analysis			
3	Project Location				
4	City	Santa Maria	5	Standards Version	Compliance 2022
6	Zip code	93454	7	Compliance Software (version)	CBECC 2022.3.0 (1302)
8	Climate Zone	5	9	Building Orientation (deg)	300
10	Building Type(s)	• Nonresidential	11	Weather File	SANTA-MARIA_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft^2)	480	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft^2)	0	17	Fuel Type	None
18	Nonresidential Conditioned Floor Area	480	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

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

Nonresidential Performance Compliance Method (Page 2 of 18)

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)	☐	Performance	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).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	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)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☐	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		☒	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

---

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

Nonresidential Performance Compliance Method (Page 3 of 18)

C1. COMPLIANCE SUMMARY

COMPLIES[3]

	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft^2 - yr)	Total[2] (kBtu/ft^2 - yr)	Total[2] (kBtu/ft^2 - yr)
Standard Design	280.9	280.9	26.62
Proposed Design	185.73	185.73	18.95
Compliance Margins	**95.17**	**95.17**	**7.67**
	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] *New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*

Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is 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 18)

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft^2 - yr)

COMPLIES[2]

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	46.62	74.05	-27.43
Space Cooling	43.75	30.56	13.19
Indoor Fans	166.76	66.54	100.22
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	23.77	14.58	9.19
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**280.9**	**185.73**	**95.17 (33.9%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**280.9**	**185.73**	**95.17 (33.9%)**

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

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

Nonresidential Performance Compliance Method (Page 5 of 18)

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	65.37	65.37	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**346.27**	**251.1**	**95.17 (27.5%)**

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

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

Nonresidential Performance Compliance Method (Page 6 of 18)

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft^2 /yr)

COMPLIES[2]

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	6.14	9.79	-3.65
Space Cooling	1.89	1.21	0.68
Indoor Fans	16.53	6.68	9.85
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	2.06	1.27	0.79
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**26.62**	**18.95**	**7.67 (28.8%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**26.62**	**18.95**	**7.67 (28.8%)**

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

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

Nonresidential Performance Compliance Method (Page 7 of 18)

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	4.93	4.93	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**31.55**	**23.88**	**7.67 (24.3%)**

[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

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

Nonresidential Performance Compliance Method (Page 8 of 18)

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	0.7	1.1	-0.4	---	---	---
Space Cooling	0.9	0.7	0.2	---	---	---
Indoor Fans	2.8	1.1	1.7	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	---	---	---
Indoor Lighting	0.4	0.2	0.2	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**4.8**	**3.1**	**1.7**	**0**	**0**	**0**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**4.8**	**3.1**	**1.7**	**0**	**0**	**0**
Receptacle	1.3	1.3	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**6.1**	**4.4**	**1.7**	**0**	**0**	**0**

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

Nonresidential Performance Compliance Method (Page 9 of 18)

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft^2 / yr)	Proposed Design (kBtu/ft^2 / yr)	Margin (kBtu/ft^2 / yr)	Margin Percentage
GROSS EUI[1]	43.36	31.28	12.08	27.86
NET EUI[1]	43.36	31.28	12.08	27.86

[1] *Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

D1. EXCEPTIONAL CONDITIONS

- 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.
- Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
- Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft^2)**	**Total Fenestration Area (ft^2)**	**Window to Wall Ratio (%)**
North-Facing[1]	120	0	0
East-Facing[2]	400	80	20
South-Facing[3]	120	0	0
West-Facing[4]	400	80	20
Total	**1040**	**160**	**15.38**
Roof	480	0	0

Notes

[1] *North-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),*

[2] *East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*

[3] *South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*

[4] *West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*

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

Nonresidential Performance Compliance Method (Page 10 of 18)

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	**Air Barrier**
Ground Floor	Air barrier - not verified

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]**
					Interior	**Exterior**				
Ext Roof	Roof	480	Metal	19	N/A	5	U-factor	0.0528	Metal Standing Seam - 1/16 in. Compliance Insulation R5.00 Plywood - 1/2 in. Roof Structure Air - Roof - 3 1/2 in. Acoustic Tile - 3/8 in.	N
Ext Wall	Exterior Wall	1,040	Metal	13	N/A	5	U-factor	0.0978	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Compliance Insulation R5.00 R-13 in Metal Studs Gypsum Board - 1/2 in.	N
Floor over Crawlspace	Exterior Floor	480	N/A	0	N/A	N/A	U-factor	0.104	Vented Crawl Space Concrete - 140 lb/ft3 - 2 in. Carpet - 3/4 in.	N

[1] *Status: N - New, A - Altered, E - Existing*

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

Nonresidential Performance Compliance Method (Page 11 of 18)

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01	02	03	04
Assembly Name	**Area (ft^2)**	**Overall U-factor**	**Status[1]**
Door	21	0.7	N

[1] *Status: N - New, A - Altered, E - Existing*

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]**
Windows	Vertical fenestration Fixed window N/A	NFRC	Manufactured	160	0.42	0.25	0.44	N

[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. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*

[2] *Status: N - New, A - Altered, E - Existing*

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	**Equipment Type**	**Qty**	**Heating**				**Cooling**			**Economizer Type (if present)**	**Status[1]**
			Total Heating Output (kBtu/h)	**Supp Heat Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**	**Total Cooling Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**		
FC-1	Single Package VHP Air System	1	39	10.24	COP	3.3	42	EER	11.3	No Economizer	N

[1] *Status: N - New, A - Altered, E - Existing*

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

Nonresidential Performance Compliance Method (Page 12 of 18)

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**	**Supply Fan**				**Return / Relief Fan**					**Status[1]**
			CFM	**Power**	**Power Units**	**Control**	**Fan Type**	**CFM**	**Power**	**Power Units**	**Control**	
FC-1	1	182.4	1,350	0.73	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] *Status: N - New, A - Altered, E - Existing*

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	**Equipment Type**	**Interlocks per 140.4(n)[1]**	**Other Special Features and Controls**
FC-1	Single Package VHP Air System	No	

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.

[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

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

01	02	03	04	05	06	07
Zone Name	**Mechanical Ventilation**				**Conditioned Area (sf)**	**DCV or Occupant Sensor Controls, or Both**
	Ventilation Function	**# of People**	**Supply OA CFM**	**Exhaust CFM**		
Zn FC-1 L01	Education - Classrooms (ages 9-18)	12	182.4	0	480	N/A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

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~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDAL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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REVISIONS

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SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-XX

SHEET TITLE:

ENERGY CALCULATIONS GROUP B

SHEET NUMBER:

EN.4

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 (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	MIn.	Min. Ratio	Power	Power Units	Cycles	
FC-1_TRM	Uncontrolled	1	N/A	N/A	1,350	N/A	0	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	480	180	0	0	0
Building Totals:	**480**	**180**	**0**	**0**	**0**

[1] *See Table 140.6-C*
[2] *See NRCC-LTI--E for unconditioned spaces*
[3] *Lighting information for existing spaces modeled is not included in this table*

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

01	02	03	04	05	06
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts (Conditioned)			
		Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
2x4 LED	2x4 - LED	45	According to 130.0(c)	4	180

[1] *If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

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-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
L01 ClassRm 101	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	45	2	90	0
L01 ClassRm 101	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	45	2	90	0
							Lighting Control Credits (Conditioned) Total (Watts)	**0**

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

Building Level Controls

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

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per 130.1)

03	04	05	06	07	08	09
Area Description	Area Category Primary Function Area	Area Controls 130.1(a) & 160.5(b)4A	Multi-Level Controls 130.1(b) & 160.5(b)4B	Shut-Off Controls 130.1(c) & 160.5(b)4C	Primary Daylighting 130.1(d) & 160.5(b)4D	Secondary Daylighting 140.5(d) & 160.5(b)4D
Classrooms Daylit Zn	Classroom, Lecture, or Training Vocational	Required	NA	Required	Required	Required

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)
Indoor Lighting	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Indoor Lighting	NRCA-LTI-03-A - Automatic Daylight 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-03-A - Constant Volume Single Zone HVAC

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Mechanical	NRCA-MCH-19-A Occupancy Sensor Controls

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. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

---

Documentation Author's Declaration Statement

1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Hans Marsman, CEA, LEED AP BD+C	Documentation Author Signature:
Company: Marsman Consulting	Signature Date:
Address: 1150 J Street #409	CEA/HERS Certification Identification (if applicable):
City/State/Zip: San Diego, CA 92101	Phone: (619) 573-6374

CEA
Hans Marsman
R19-20-30039 NR19-09-30012
Digitally signed by Hans Marsman, LEED AP, CEA
Date: 2023.10.30 15:07:47-06'00'

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: Randall P Cavannagh	Responsible Designer Signature: Randall Cavanagh	
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca, CA 95336	License #: C12631	
Phone: 209.825.1921	Title: Engineer	Scope: Envelope
Responsible Designer Name: Randall P Cavannagh	Responsible Designer Signature: Randall Cavanagh	
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca, CA 95336	License #: C12631	
Phone: 209.825.1921	Title: Engineer	Scope: Mechanical

Responsible Designer Name: Randall P Cavannagh	Responsible Designer Signature: Randall Cavanagh	
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca, CA 95336	License #: C12631	
Phone: 209.825.1921	Title: Engineer	Scope: Lighting

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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

REVISIONS

△1
△2
△3
△4

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

SHEET TITLE:

ENERGY CALCULATIONS GROUP B

SHEET NUMBER:

EN.5

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

Nonresidential Performance Compliance Method **(Page 1 of 18)**

Project Name:	**AMS PC 12x40**	**Date Prepared:**	**2023-09-21**

A. General Information

1	Project Name	AMS PC 12x40			
2	Run Title	Title 24 Analysis			
3	Project Location				
4	City	Fresno	**5**	Standards Version	Compliance 2022
6	Zip code	93703	**7**	Compliance Software (version)	CBECC 2022.3.0 (1302)
8	Climate Zone	13	**9**	Building Orientation (deg)	165
10	Building Type(s)	• Nonresidential	**11**	Weather File	FRESNO-YOSEMITE_STYP20.epw
12	Project Scope	• New complete scope	**13**	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft^2)	480	**15**	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft^2)	0	**17**	Fuel Type	None
18	Nonresidential Conditioned Floor Area	480	**19**	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

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

Nonresidential Performance Compliance Method **(Page 2 of 18)**

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)	☐	Performance	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).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	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)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☐	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		☒	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	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 18)**

C1. COMPLIANCE SUMMARY

COMPLIES[3]

	Time Dependent Valuaton (TDV)		**Source Energy Use**
	Efficiency[1] (kBtu/ft^2 - yr)	**Total[2] (kBtu/ft^2 - yr)**	**Total[2] (kBtu/ft^2 - yr)**
Standard Design	411.88	411.88	33.03
Proposed Design	313.08	313.08	24.31
Compliance Margins	**98.8**	**98.8**	**8.72**
	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] *New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded

---

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

Nonresidential Performance Compliance Method **(Page 4 of 18)**

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft^2 - yr)

COMPLIES[2]

Energy Component	**Standard Design (TDV)**	**Proposed Design (TDV)**	**Compliance Margin (TDV)[1]**
Space Heating	41.05	65.26	-24.21
Space Cooling	156.19	163.19	-7
Indoor Fans	192.08	70.85	121.23
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	22.56	13.78	8.78
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**411.88**	**313.08**	**98.8 (24%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**411.88**	**313.08**	**98.8 (24%)**

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

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

Nonresidential Performance Compliance Method **(Page 5 of 18)**

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	**Standard Design (TDV)**	**Proposed Design (TDV)**	**Compliance Margin (TDV)[1]**
Receptacle	65.89	65.89	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**477.77**	**378.97**	**98.8 (20.7%)**

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

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

Nonresidential Performance Compliance Method **(Page 6 of 18)**

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft^2 /yr)

COMPLIES[2]

Energy Component	**Standard Design (SOURCE)**	**Proposed Design (SOURCE)**	**Compliance Margin (SOURCE)[1]**
Space Heating	5.79	9.45	-3.66
Space Cooling	6.67	6.6	0.07
Indoor Fans	18.5	6.98	11.52
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	2.07	1.28	0.79
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**33.03**	**24.31**	**8.72 (26.4%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**33.03**	**24.31**	**8.72 (26.4%)**

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

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

Nonresidential Performance Compliance Method **(Page 7 of 18)**

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	**Standard Design (SOURCE)**	**Proposed Design (SOURCE)**	**Compliance Margin (SOURCE)[1]**
Receptacle	4.93	4.93	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**37.96**	**29.24**	**8.72 (23%)**

[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

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

Nonresidential Performance Compliance Method **(Page 8 of 18)**

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	0.6	1	-0.4	---	---	---
Space Cooling	1.9	1.9	0	---	---	---
Indoor Fans	3.2	1.2	2	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	---	---	---
Indoor Lighting	0.4	0.2	0.2	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**6.1**	**4.3**	**1.8**	**0**	**0**	**0**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**6.1**	**4.3**	**1.8**	**0**	**0**	**0**
Receptacle	1.3	1.3	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**7.4**	**5.6**	**1.8**	**0**	**0**	**0**

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

Nonresidential Performance Compliance Method **(Page 9 of 18)**

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft^2 / yr)	**Proposed Design (kBtu/ft^2 / yr)**	**Margin (kBtu/ft^2 / yr)**	**Margin Percentage**
GROSS EUI[1]	52.6	39.81	12.79	24.32
NET EUI[1]	52.6	39.81	12.79	24.32

[1] *Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

D1. EXCEPTIONAL CONDITIONS

- 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.
- Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
- Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	**02**	**03**	**04**
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft^2)**	**Total Fenestration Area (ft^2)**	**Window to Wall Ratio (%)**
North-Facing[1]	400	80	20
East-Facing[2]	120	0	0
South-Facing[3]	400	80	20
West-Facing[4]	120	0	0
Total	**1040**	**160**	**15.38**
Roof	480	0	0

Notes

[1] *North-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),*

[2] *East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*

[3] *South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*

[4] *West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*

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

Nonresidential Performance Compliance Method **(Page 10 of 18)**

G4. NONRESIDENTIAL AIR BARRIER

01	**02**
Building Story Name	**Air Barrier**
Ground Floor	Air barrier - not verified

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]**
					Interior	**Exterior**				
Ext Roof	Roof	480	Metal	19	N/A	5	U-factor	0.0528	Metal Standing Seam - 1/16 in. Compliance Insulation R5.00 Plywood - 1/2 in. Roof Structure Air - Roof - 3 1/2 in. Acoustic Tile - 3/8 in.	N
Ext Wall	Exterior Wall	1,040	Metal	13	N/A	5	U-factor	0.0978	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Compliance Insulation R5.00 R-13 in Metal Studs Gypsum Board - 1/2 in.	N
Floor over Crawlspace	Exterior Floor	480	N/A	0	N/A	N/A	U-factor	0.104	Vented Crawl Space Concrete - 140 lb/ft3 - 2 in. Carpet - 3/4 in.	N

[1] *Status: N - New, A - Altered, E - Existing*

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

Nonresidential Performance Compliance Method **(Page 11 of 18)**

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01	**02**	**03**	**04**
Assembly Name	**Area (ft^2)**	**Overall U-factor**	**Status[1]**
Door	21	0.7	N

[1] *Status: N - New, A - Altered, E - Existing*

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]**
Windows	Vertical fenestration Fixed window N/A	NFRC	Manufactured	160	0.42	0.25	0.44	N

[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. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*

[2] *Status: N - New, A - Altered, E - Existing*

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**
Equipment Name	**Equipment Type**	**Qty**	**Heating**				**Cooling**			**Economizer Type (if present)**	**Status[1]**
			Total Heating Output (kBtu/h)	**Supp Heat Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**	**Total Cooling Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**		
FC-1	Single Package VHP Air System	1	39	3.41	COP	3.3	42	EER	11.3	No Economizer	N

[1] *Status: N - New, A - Altered, E - Existing*

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

Nonresidential Performance Compliance Method **(Page 12 of 18)**

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**	**Supply Fan**				**Return / Relief Fan**					**Status[1]**
			CFM	**Power**	**Power Units**	**Control**	**Fan Type**	**CFM**	**Power**	**Power Units**	**Control**	
FC-1	1	182.4	1,350	0.73	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] *Status: N - New, A - Altered, E - Existing*

H8. SYSTEM SPECIAL FEATURES

01	**02**	**03**	**04**
System Name	**Equipment Type**	**Interlocks per 140.4(n)[1]**	**Other Special Features and Controls**
FC-1	Single Package VHP Air System	No	

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.

[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

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

01	**02**	**03**	**04**	**05**	**06**	**07**
Zone Name	**Mechanical Ventilation**				**Conditioned Area (sf)**	**DCV or Occupant Sensor Controls, or Both**
	Ventilation Function	**# of People**	**Supply OA CFM**	**Exhaust CFM**		
Zn FC-1 L01	Education - Classrooms (ages 9-18)	12	182.4	0	480	N/A

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DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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12' x 40' STANDARD MODULAR BUILDING

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SITE SPECIFIC PROJECT NAME
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~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDAL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-XX

SHEET TITLE:

ENERGY CALCULATIONS
GROUP C

SHEET NUMBER:

EN.6

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 (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
FC-1_TRM	Uncontrolled	1	N/A	N/A	1,350	N/A	0	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] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Classroom, Lecture, or Training Vocational	480	180	0	0	0
Building Totals:	**480**	**180**	**0**	**0**	**0**

[1] *See Table 140.6-C*
[2] *See NRCC-LTI--E for unconditioned spaces*
[3] *Lighting information for existing spaces modeled is not included in this table*

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

01	02	03	04	05	06
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts (Conditioned)			
		Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
2x4 LED	2x4 - LED	45	According to 130.0(c)	4	180

[1] *If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

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-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
L01 ClassRm 101	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	45	2	90	0
L01 ClassRm 101	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	45	2	90	0
							Lighting Control Credits (Conditioned) Total (Watts)	**0**

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

Building Level Controls

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

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per 130.1)

03	04	05	06	07	08	09
Area Description	Area Category Primary Function Area	Area Controls 130.1(a) & 160.5(b)4A	Multi-Level Controls 130.1(b) & 160.5(b)4B	Shut-Off Controls 130.1(c) & 160.5(b)4C	Primary Daylighting 130.1(d) & 160.5(b)4D	Secondary Daylighting 140.5(d) & 160.5(b)4D
Classrooms Daylit Zn	Classroom, Lecture, or Training Vocational	Required	NA	Required	Required	Required

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)
Indoor Lighting	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Indoor Lighting	NRCA-LTI-03-A - Automatic Daylight 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-03-A - Constant Volume Single Zone HVAC

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Mechanical	NRCA-MCH-19-A Occupancy Sensor Controls

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. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

---

Documentation Author's Declaration Statement

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

Documentation Author Name: Hans Marsman, CEA, LEED AP BD+C	Documentation Author Signature:
Company: Marsman Consulting	Signature Date:
Address: 1150 J Street #409	CEA/HERS Certification Identification (if applicable): I
City/State/Zip: San Diego, CA 92101	Phone: (619) 573-6374

CEA
Hans Marsman
R19-20-30039 NR19-09-30012
Digitally signed by Hans Marsman, LEED AP, CEA
Date: 2023.10.30 15:07:47-06'00'

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: Randall P Cavannagh	Responsible Designer Signature:	
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca, CA 95336	License #: C12631	
Phone: 209.825.1921	Title: Engineer	Scope: Envelope
Responsible Designer Name: Randall P Cavannagh	Responsible Designer Signature:	
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca, CA 95336	License #: C12631	
Phone: 209.825.1921	Title: Engineer	Scope: Mechanical

Responsible Designer Name: Randall P Cavannagh	Responsible Designer Signature:	
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca, CA 95336	License #: C12631	
Phone: 209.825.1921	Title: Engineer	Scope: Lighting

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12' x 40' STANDARD MODULAR BUILDING

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LICENSED ARCHITECT
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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SHEET TITLE:

ENERGY CALCULATIONS
GROUP C

SHEET NUMBER:

EN.7

Project Name:	**AMS PC 12x40**	**Date Prepared:**	**2023-09-21**

A. General Information

1	Project Name	AMS PC 12x40			
2	Run Title	Title 24 Analysis			
3	Project Location				
4	City	Palm Spring-Intl	**5**	Standards Version	Compliance 2022
6	Zip code	92240	**7**	Compliance Software (version)	CBECC 2022.3.0 (1302)
8	Climate Zone	15	**9**	Building Orientation (deg)	255
10	Building Type(s)	• Nonresidential	**11**	Weather File	PALM-SPRINGS_STYP20.epw
12	Project Scope	• New complete scope	**13**	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	480	**15**	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	**17**	Fuel Type	None
18	Nonresidential Conditioned Floor Area	480	**19**	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

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)	☐	Performance	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).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	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)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☐	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		☒	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

---

C1. COMPLIANCE SUMMARY

COMPLIES[3]

	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)
Standard Design	471.06	471.06	34.33
Proposed Design	376.25	376.25	23.97
Compliance Margins	**94.81**	**94.81**	**10.36**
	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] *New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is 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)

COMPLIES[2]

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	7.6	21.93	-14.33
Space Cooling	221.11	269.97	-48.86
Indoor Fans	219.55	70.41	149.14
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	22.8	13.94	8.86
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**471.06**	**376.25**	**94.81 (20.1%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**471.06**	**376.25**	**94.81 (20.1%)**

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

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	66.69	66.69	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**537.75**	**442.94**	**94.81 (17.6%)**

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

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

COMPLIES[2]

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	1.05	3.19	-2.14
Space Cooling	11.07	12.75	-1.68
Indoor Fans	20.13	6.75	13.38
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	0	0	0
Indoor Lighting	2.08	1.28	0.8
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**34.33**	**23.97**	**10.36 (30.2%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**34.33**	**23.97**	**10.36 (30.2%)**

[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 COMPONENTS[1]

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)	**39.25**	**28.89**	**10.36 (26.4%)**

[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	0.3	-0.2	---	---	---
Space Cooling	3.3	3.7	-0.4	---	---	---
Indoor Fans	3.7	1.2	2.5	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	---	---	---
Indoor Lighting	0.4	0.2	0.2	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**7.5**	**5.4**	**2.1**	**0**	**0**	**0**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**7.5**	**5.4**	**2.1**	**0**	**0**	**0**
Receptacle	1.3	1.3	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**8.8**	**6.7**	**2.1**	**0**	**0**	**0**

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	62.55	47.63	14.92	23.85
NET EUI[1]	62.55	47.63	14.92	23.85

[1] *Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

D1. EXCEPTIONAL CONDITIONS

- 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.
- Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
- Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft²)**	**Total Fenestration Area (ft²)**	**Window to Wall Ratio (%)**
North-Facing[1]	120	0	0
East-Facing[2]	400	80	20
South-Facing[3]	120	0	0
West-Facing[4]	400	80	20
Total	**1040**	**160**	**15.38**
Roof	480	0	0

Notes
[1] *North-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),*
[2] *East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
[3] *South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
[4] *West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	**Air Barrier**
Ground Floor	Air barrier - not verified

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	**Construction Type**	**Area (ft²)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**		**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
					Interior	**Exterior**				
Ext Roof	Roof	480	Metal	19	N/A	5	U-factor	0.0528	Metal Standing Seam - 1/16 in. Compliance Insulation R5.00 Plywood - 1/2 in. Roof Structure Air - Roof - 3 1/2 in. Acoustic Tile - 3/8 in.	N
Ext Wall	Exterior Wall	1,040	Metal	13	N/A	5	U-factor	0.0978	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Compliance Insulation R5.00 R-13 in Metal Studs Gypsum Board - 1/2 in.	N
Floor over Crawlspace	Exterior Floor	480	N/A	0	N/A	N/A	U-factor	0.104	Vented Crawl Space Concrete - 140 lb/ft3 - 2 in. Carpet - 3/4 in.	N

[1] *Status: N - New, A - Altered, E - Existing*

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01	02	03	04
Assembly Name	**Area (ft²)**	**Overall U-factor**	**Status[1]**
Door	21	0.7	N

[1] *Status: N - New, A - Altered, E - Existing*

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 (ft²)**	**Overall U-factor**	**Overall SHGC**	**Overall VT**	**Status[2]**
Windows	Vertical fenestration Fixed window N/A	NFRC	Manufactured	160	0.42	0.25	0.44	N

[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. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A - Altered, E - Existing*

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	**Equipment Type**	**Qty**	**Heating**				**Cooling**			**Economizer Type (if present)**	**Status[1]**
			Total Heating Output (kBtu/h)	**Supp Heat Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**	**Total Cooling Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**		
FC-1	Single Package VHP Air System	1	39	3.41	COP	3.3	42	EER	11.3	No Economizer	N

[1] *Status: N - New, A - Altered, E - Existing*

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**	**Supply Fan**				**Return / Relief Fan**					**Status[1]**
			CFM	**Power**	**Power Units**	**Control**	**Fan Type**	**CFM**	**Power**	**Power Units**	**Control**	
FC-1	1	182.4	1,350	0.73	InH2O	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] *Status: N - New, A - Altered, E - Existing*

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	**Equipment Type**	**Interlocks per 140.4(n)[1]**	**Other Special Features and Controls**
FC-1	Single Package VHP Air System	No	

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.

[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

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

01	02	03	04	05	06	07
Zone Name	**Mechanical Ventilation**				**Conditioned Area (sf)**	**DCV or Occupant Sensor Controls, or Both**
	Ventilation Function	**# of People**	**Supply OA CFM**	**Exhaust CFM**		
Zn FC-1 L01	Education - Classrooms (ages 9-18)	12	182.4	0	480	N/A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

SITE SPECIFIC PROJECT NAME

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~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RANDAL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-XX

SHEET TITLE:

ENERGY CALCULATIONS
GROUP D

SHEET NUMBER:

EN.8

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

Nonresidential Performance Compliance Method **(Page 13 of 18)**

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 (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	MIn.	Min. Ratio	Power	Power Units	Cycles	
FC-1_TRM	Uncontrolled	1	N/A	N/A	1,350	N/A	0	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	480	180	0	0	0
Building Totals:	**480**	**180**	**0**	**0**	**0**

[1] See Table 140.6-C

[2] See NRCC-LTI--E for unconditioned spaces

[3] Lighting information for existing spaces modeled is not included in this table

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

Nonresidential Performance Compliance Method **(Page 14 of 18)**

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft^2 in offices)

01	02	03	04	05	06
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts (Conditioned)			
		Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
2x4 LED	2x4 - LED	45	According to 130.0(c)	4	180

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

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per 140.6(a)2 and Table 140.6-A)

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-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
L01 ClassRm 101	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	45	2	90	0
L01 ClassRm 101	Classroom, Lecture, or Training Vocational	N/A	N/A	2x4 LED	45	2	90	0
						Lighting Control Credits (Conditioned) Total (Watts)		**0**

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

Building Level Controls

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

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

Nonresidential Performance Compliance Method **(Page 15 of 18)**

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per 130.1)

03	04	05	06	07	08	09
Area Description	Area Category Primary Function Area	Area Controls 130.1(a) & 160.5(b)4A	Multi-Level Controls 130.1(b) & 160.5(b)4B	Shut-Off Controls 130.1(c) & 160.5(b)4C	Primary Daylighting 130.1(d) & 160.5(b)4D	Secondary Daylighting 140.5(d) & 160.5(b)4D
Classrooms Daylit Zn	Classroom, Lecture, or Training Vocational	Required	NA	Required	Required	Required

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)
Indoor Lighting	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Indoor Lighting	NRCA-LTI-03-A - Automatic Daylight 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-03-A - Constant Volume Single Zone HVAC

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

Nonresidential Performance Compliance Method **(Page 16 of 18)**

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Mechanical	NRCA-MCH-19-A Occupancy Sensor Controls

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. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

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

Nonresidential Performance Compliance Method **(Page 17 of 18)**

Documentation Author's Declaration Statement

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

Documentation Author Name: Hans Marsman, CEA, LEED AP BD+C	Documentation Author Signature:
Company: Marsman Consulting	Signature Date:
Address: 1150 J Street #409	CEA/HERS Certification Identification (if applicable):
City/State/Zip: San Diego, CA 92101	Phone: (619) 573-6374

CEA

Hans Marsman R19-20-30039 NR19-09-30012

Digitally signed by Hans Marsman, LEED AP, CEA
Date: 2023.10.30 15:07:47-06'00'

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: Randall P Cavannagh	Responsible Designer Signature:	
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca, CA 95336	License #: C12631	
Phone: 209.825.1921	Title: Engineer	Scope: Envelope
Responsible Designer Name: Randall P Cavannagh	Responsible Designer Signature:	
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca, CA 95336	License #: C12631	
Phone: 209.825.1921	Title: Engineer	Scope: Mechanical

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

Nonresidential Performance Compliance Method **(Page 18 of 18)**

Responsible Designer Name: Randall P Cavannagh	Responsible Designer Signature:	
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed:	
City/State/Zip: Manteca, CA 95336	License #: C12631	
Phone: 209.825.1921	Title: Engineer	Scope: Lighting

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12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME
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RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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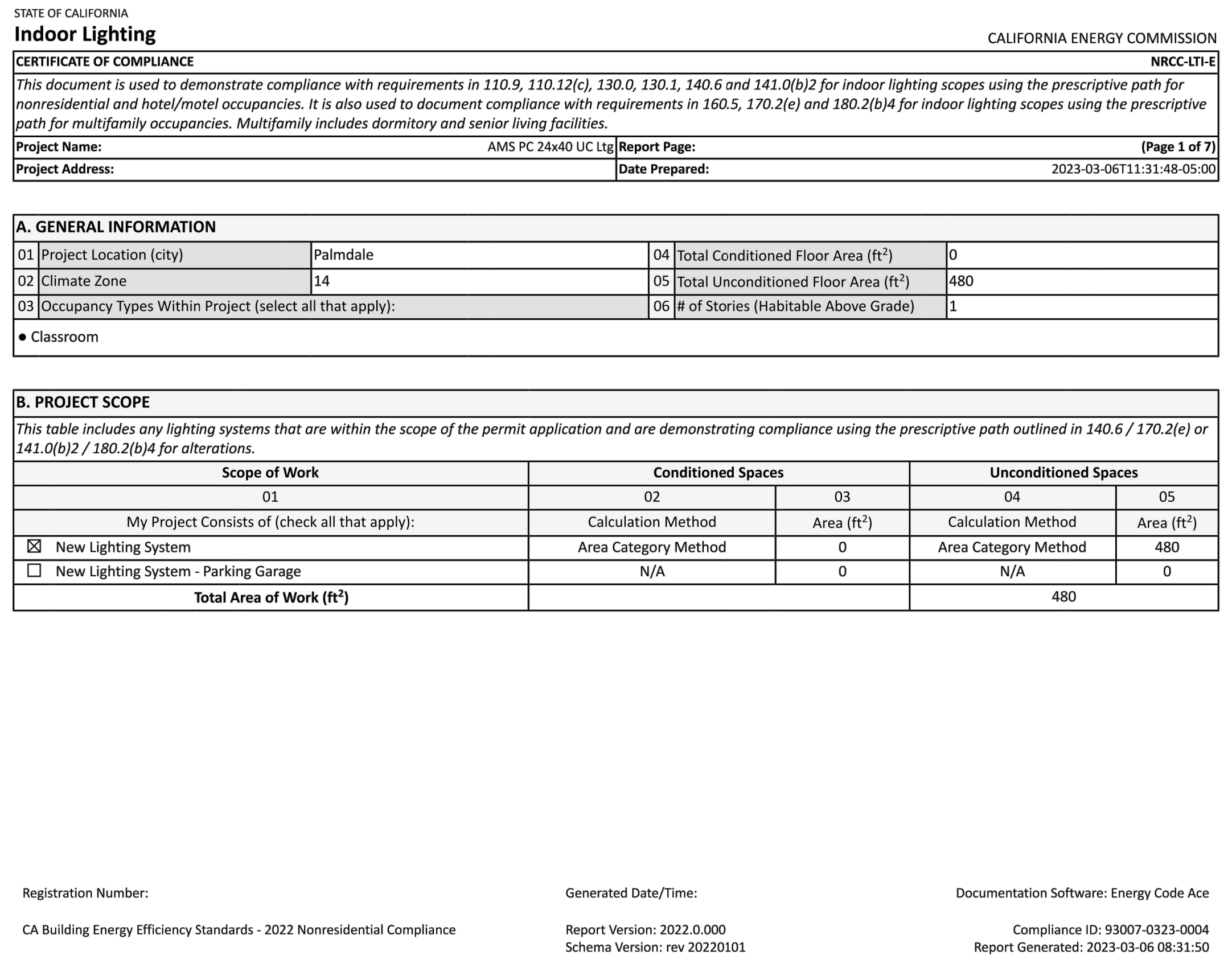
PROJECT NO: XXXX-XX

SHEET TITLE:
ENERGY CALCULATIONS
GROUP D

SHEET NUMBER:
EN.9



STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: AMS PC 24x40 UC Ltg	**Report Page:** **(Page 1 of 7)**
Project Address:	**Date Prepared:** 2023-03-06T11:31:48-05:00

A. GENERAL INFORMATION

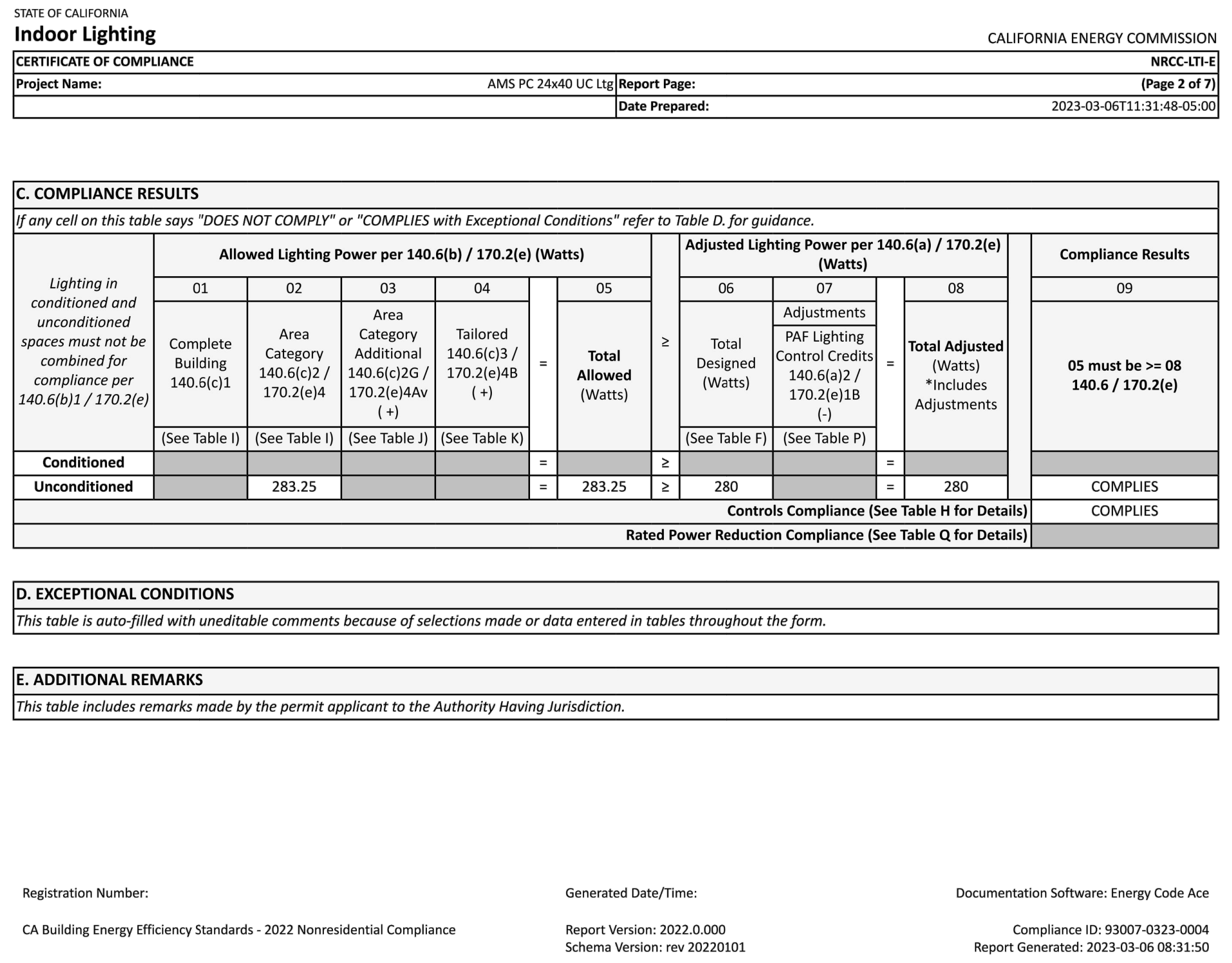
01	Project Location (city)	Palmdale	04	Total Conditioned Floor Area (ft^2)	0
02	Climate Zone	14	05	Total Unconditioned Floor Area (ft^2)	480
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

- Classroom

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft^2)	Calculation Method	Area (ft^2)
☒ New Lighting System	Area Category Method	0	Area Category Method	480
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft^2)			480	



STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: AMS PC 24x40 UC Ltg	**Report Page:** **(Page 2 of 7)**
	Date Prepared: 2023-03-06T11:31:48-05:00

C. COMPLIANCE RESULTS

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

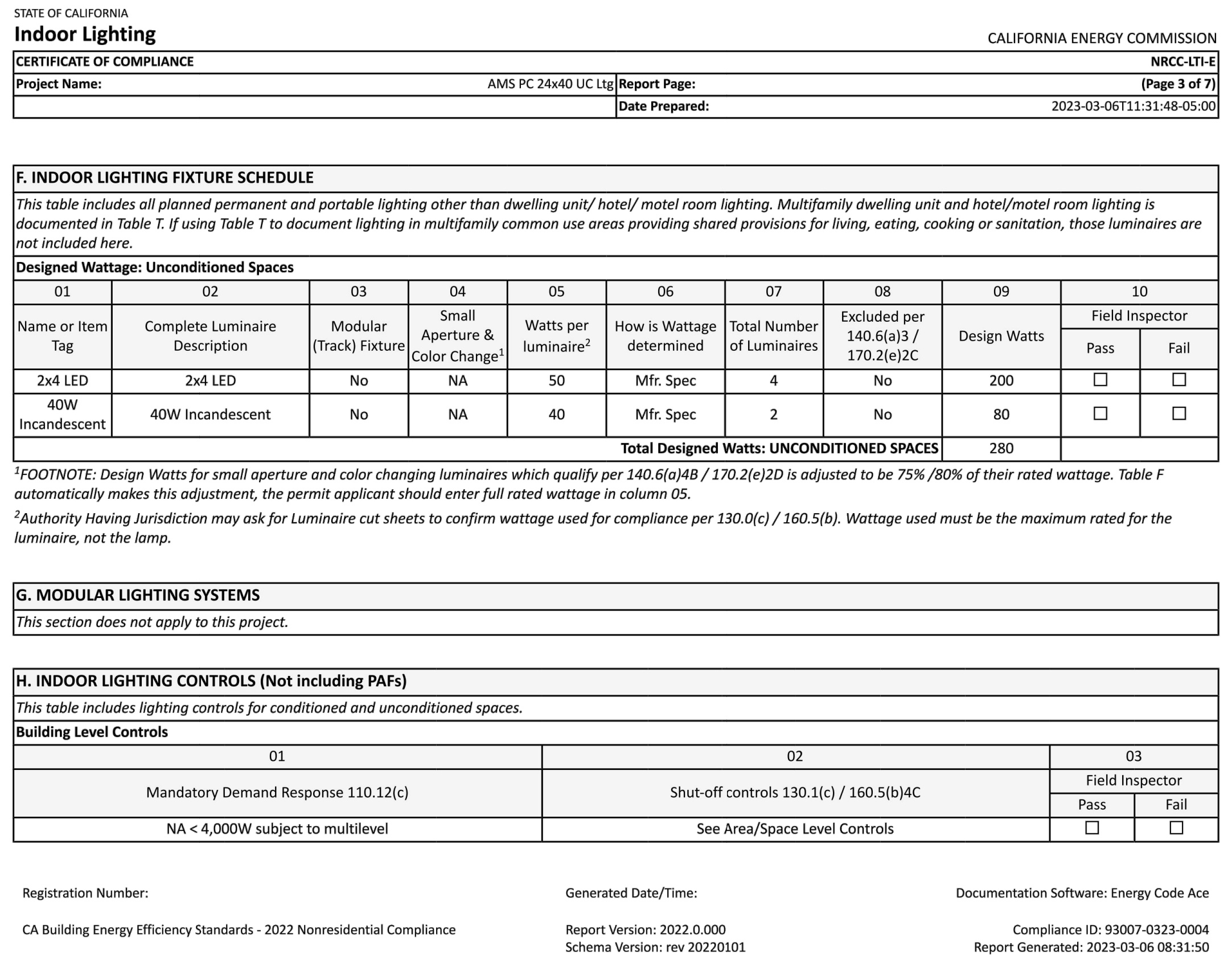
Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	**Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)**							**Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)**				**Compliance Results**
	01	02	03	04		05		06	07		08	09
	Complete Building 140.6(c)1 (See Table I)	Area Category 140.6(c)2 / 170.2(e)4 (See Table I)	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+) (See Table J)	Tailored 140.6(c)3 / 170.2(e)4B (+) (See Table K)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts) (See Table F)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-) (See Table P)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
Conditioned					=		≥			=		
Unconditioned		283.25			=	283.25	≥	280		=	280	COMPLIES
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)												

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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



STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: AMS PC 24x40 UC Ltg	**Report Page:** **(Page 3 of 7)**
	Date Prepared: 2023-03-06T11:31:48-05:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
2x4 LED	2x4 LED	No	NA	50	Mfr. Spec	4	No	200	☐	☐
40W Incandescent	40W Incandescent	No	NA	40	Mfr. Spec	2	No	80	☐	☐
Total Designed Watts: UNCONDITIONED SPACES								280		

[1] FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

[2] Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

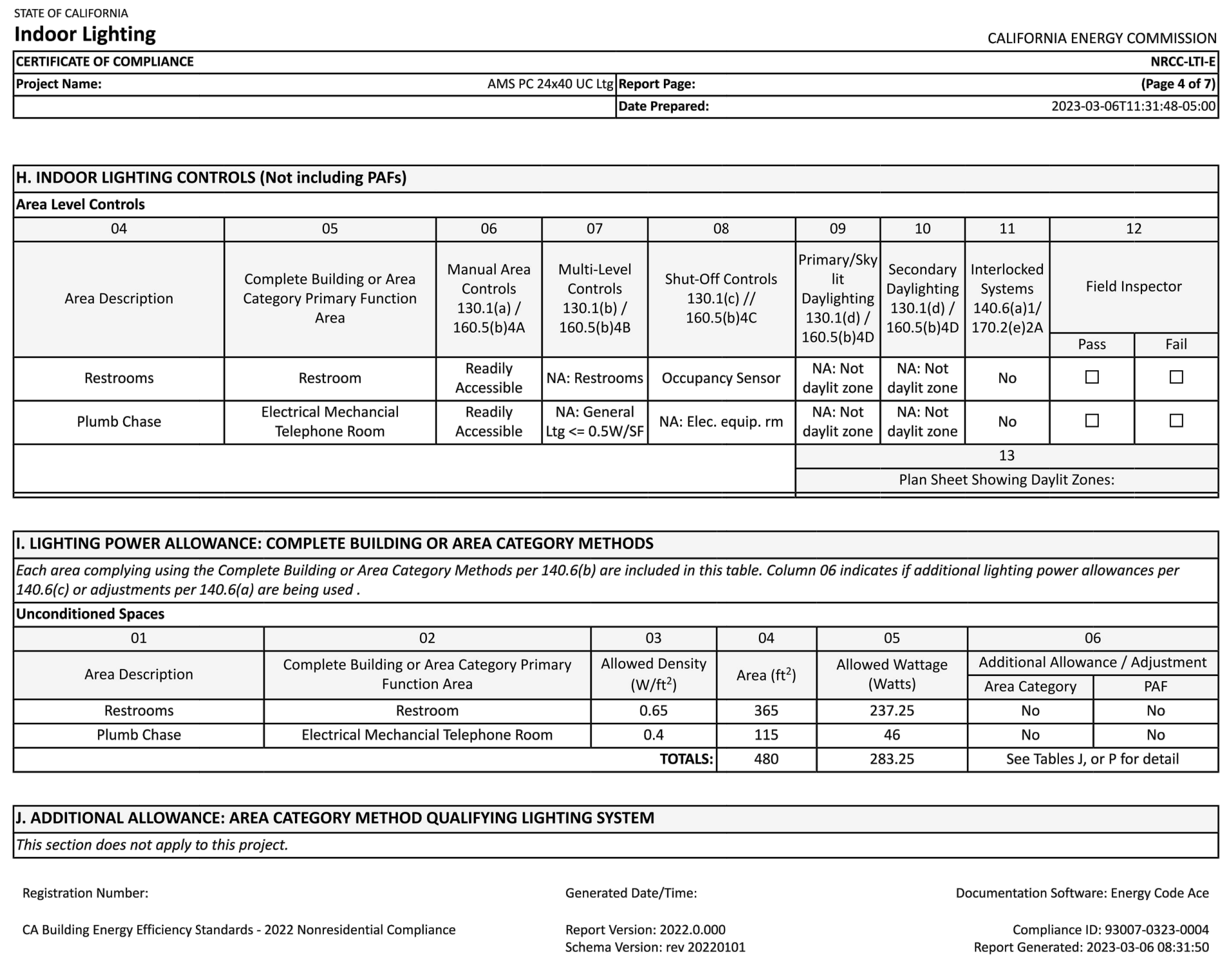
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector	
		Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐



STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: AMS PC 24x40 UC Ltg	**Report Page:** **(Page 4 of 7)**
	Date Prepared: 2023-03-06T11:31:48-05:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Restrooms	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Plumb Chase	Electrical Mechancial Telephone Room	Readily Accessible	NA: General Ltg <= 0.5W/SF	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

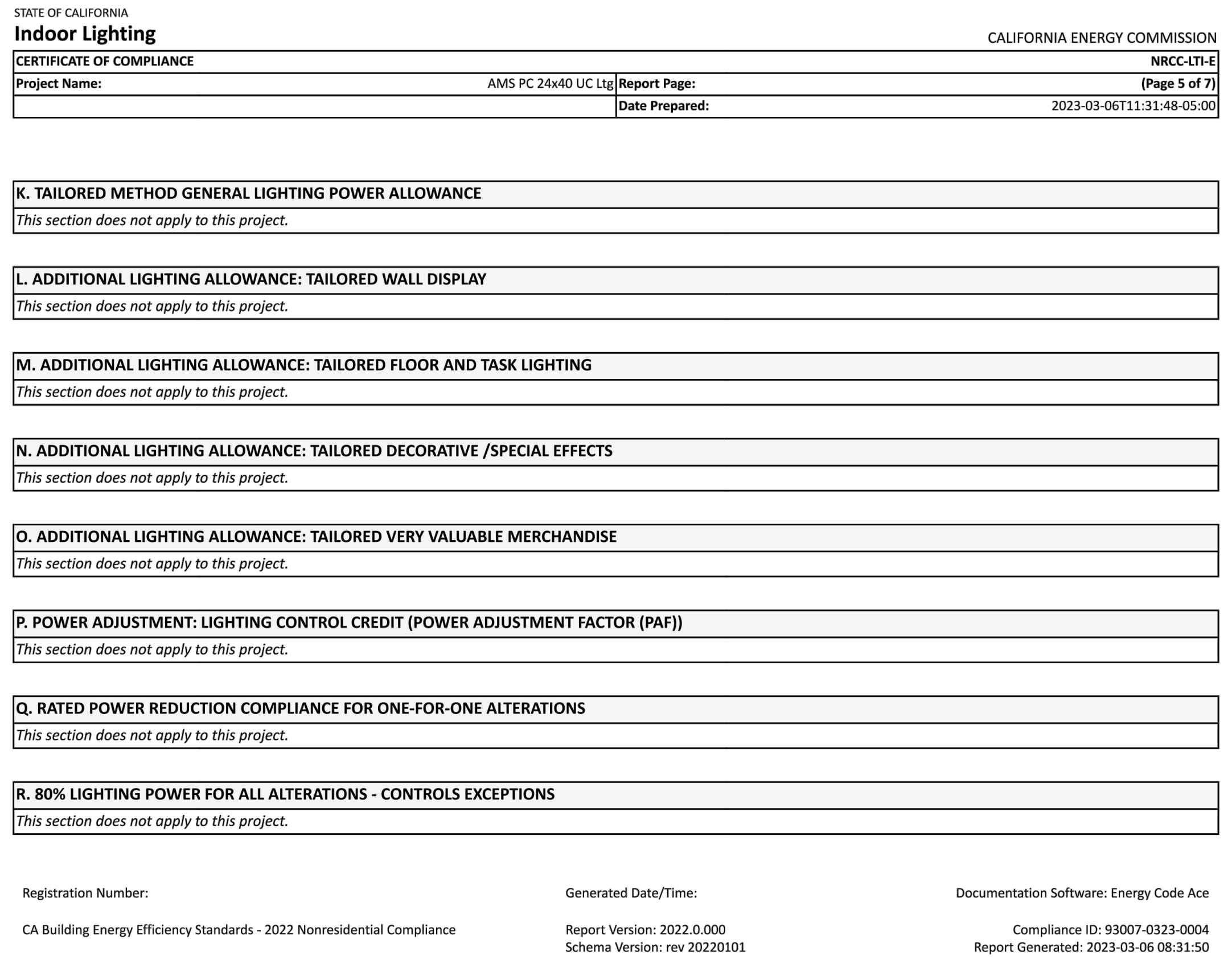
Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Unconditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft^2)	Area (ft^2)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Restrooms	Restroom	0.65	365	237.25	No	No
Plumb Chase	Electrical Mechancial Telephone Room	0.4	115	46	No	No
	TOTALS:		480	283.25	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.



STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: AMS PC 24x40 UC Ltg	**Report Page:** **(Page 5 of 7)**
	Date Prepared: 2023-03-06T11:31:48-05:00

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

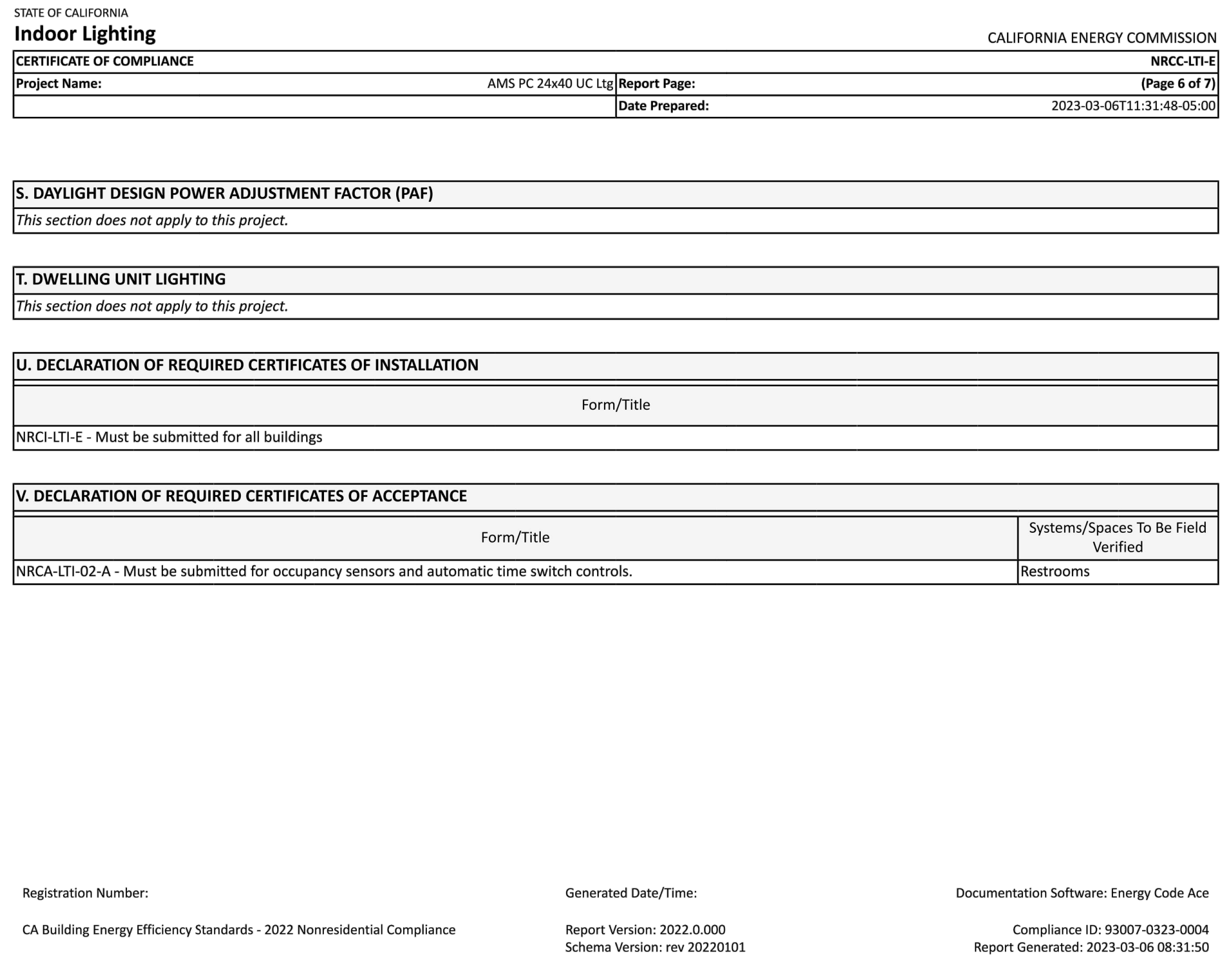
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.



STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: AMS PC 24x40 UC Ltg	**Report Page:** **(Page 6 of 7)**
	Date Prepared: 2023-03-06T11:31:48-05:00

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

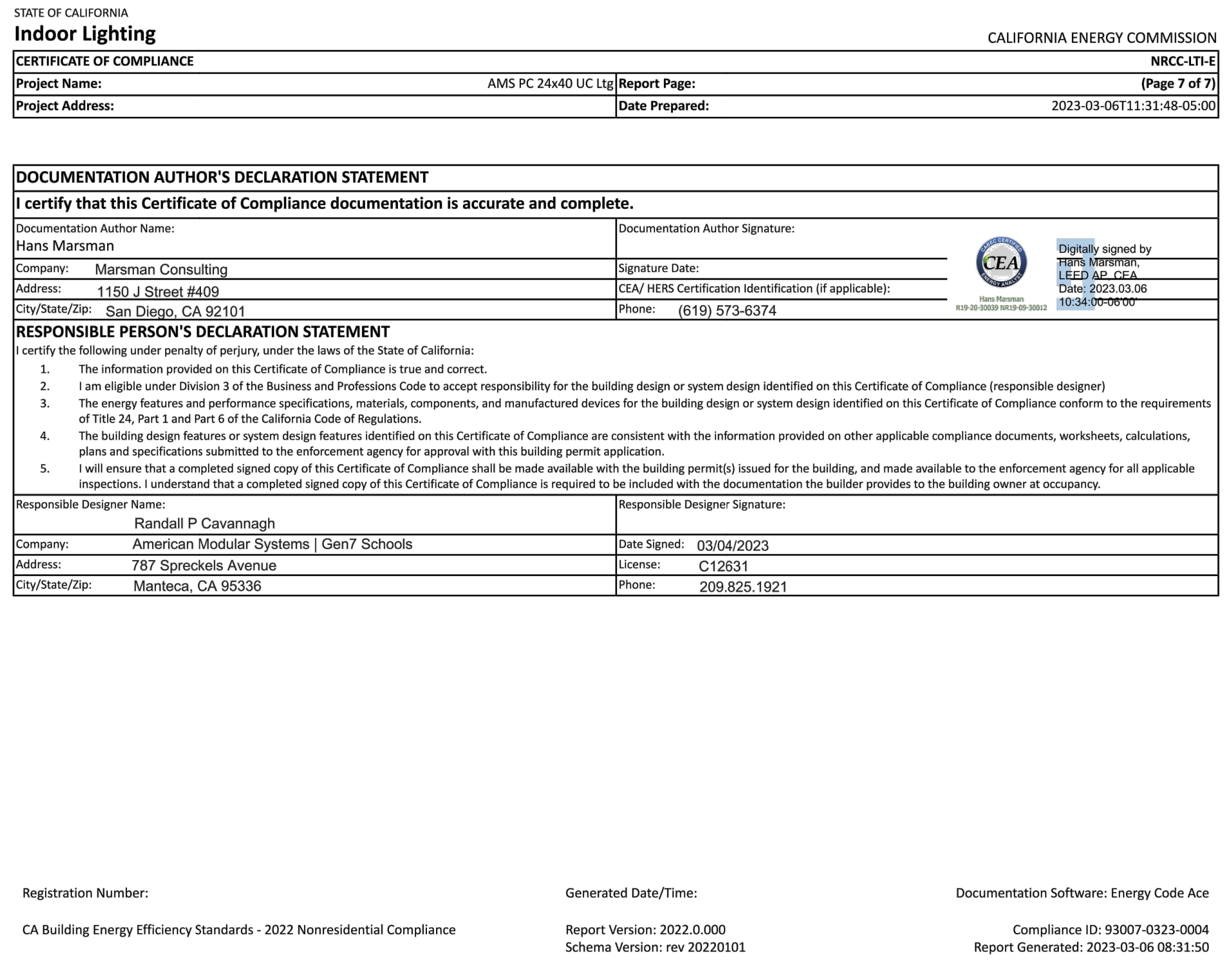
This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Restrooms



STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTI-E**
Project Name: AMS PC 24x40 UC Ltg	**Report Page:** **(Page 7 of 7)**
Project Address:	**Date Prepared:** 2023-03-06T11:31:48-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman	Documentation Author Signature:
Company: Marsman Consulting	Signature Date:
Address: 1150 J Street #409	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Diego, CA 92101	Phone: (619) 573-6374

CEA
Hans Marsman
R19-20-30039 NR19-09-30012

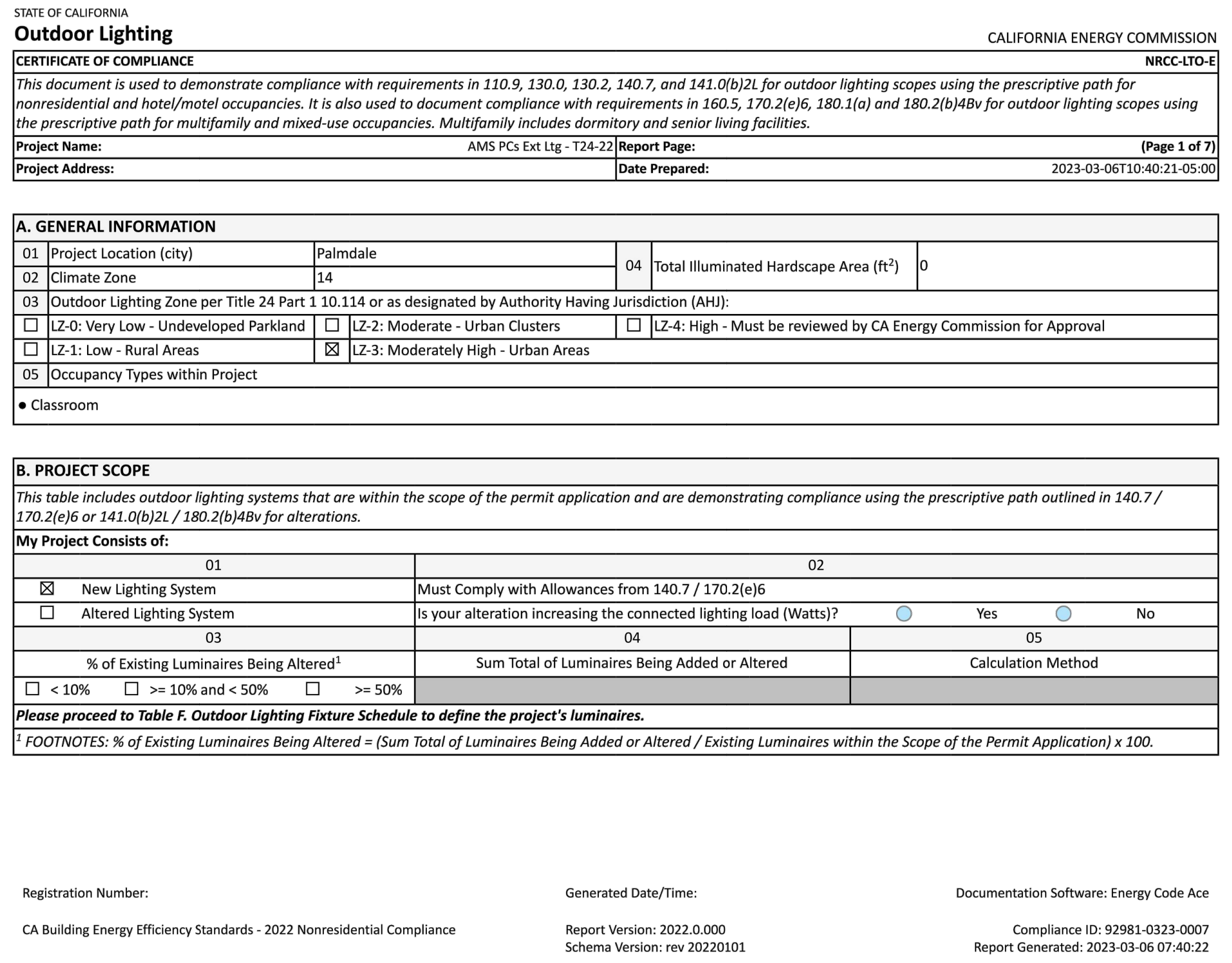
Digitally signed by Hans Marsman, LEED AP, CEA
Date: 2023.03.06 10:34:00-06'00'

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name: Randall P Cavannagh	Responsible Designer Signature:
Company: American Modular Systems | Gen7 Schools	Date Signed: 03/04/2023
Address: 787 Spreckels Avenue	License: C12631
City/State/Zip: Manteca, CA 95336	Phone: 209.825.1921



STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: AMS PCs Ext Ltg - T24-22	**Report Page:** **(Page 1 of 7)**
Project Address:	**Date Prepared:** 2023-03-06T10:40:21-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Palmdale	04	Total Illuminated Hardscape Area (ft^2)	0
02	Climate Zone	14			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Urban Clusters	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				

- Classroom

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

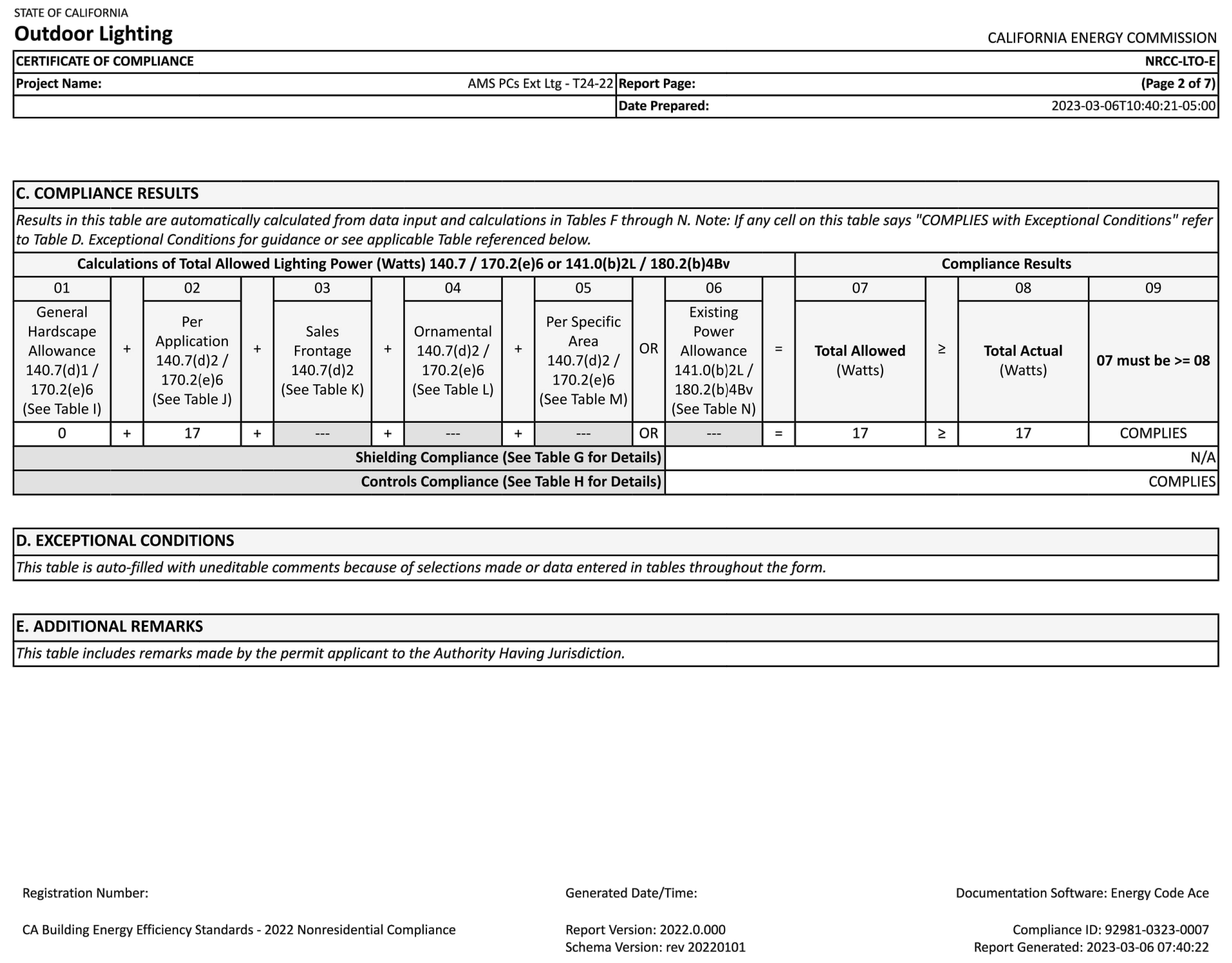
My Project Consists of:

01	02
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.



STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: AMS PCs Ext Ltg - T24-22	**Report Page:** **(Page 2 of 7)**
	Date Prepared: 2023-03-06T10:40:21-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

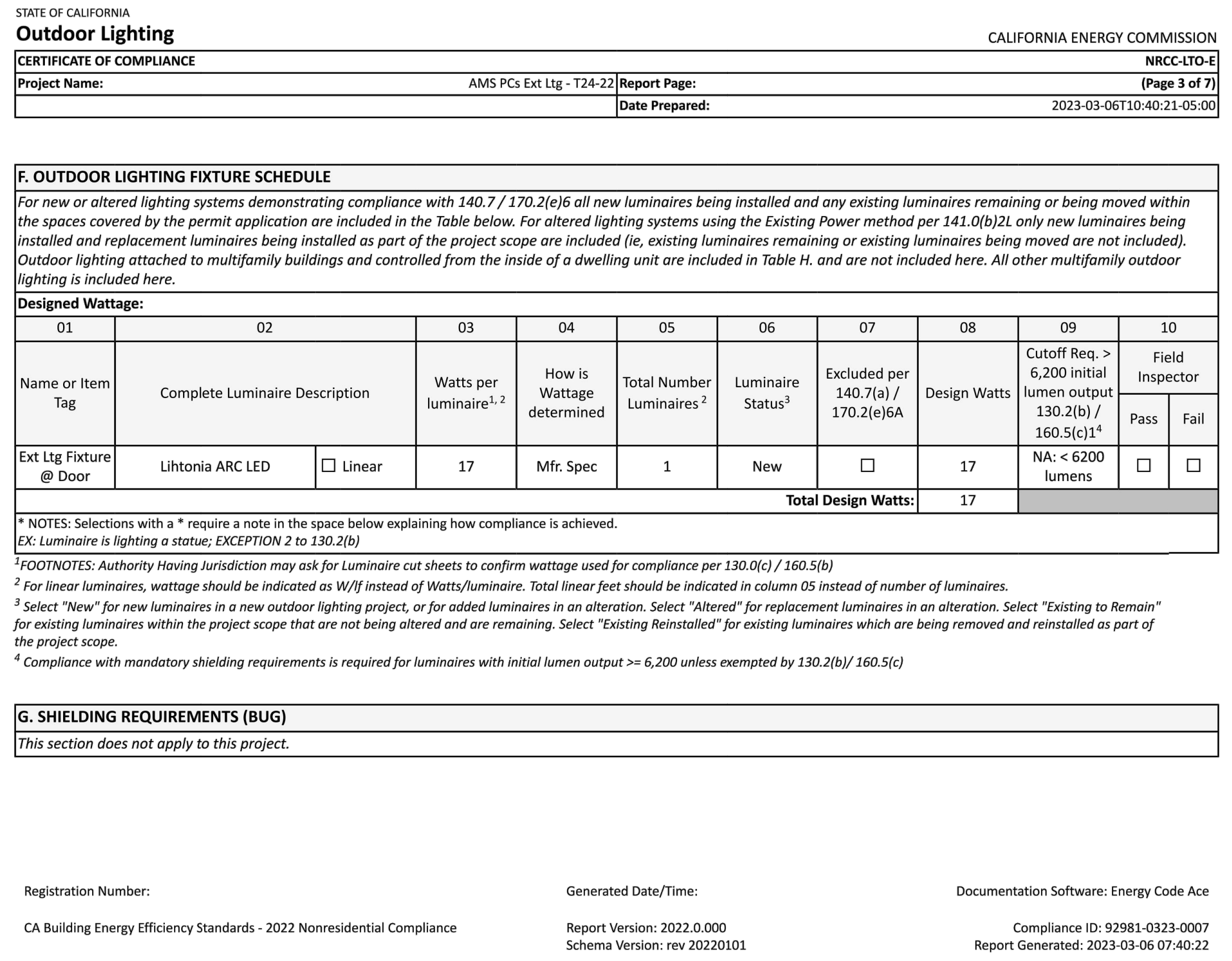
Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												**Compliance Results**			
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
0	+	17	+	---	+	---	+	---	OR	---	=	17	≥	17	COMPLIES
Shielding Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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



STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: AMS PCs Ext Ltg - T24-22	**Report Page:** **(Page 3 of 7)**
	Date Prepared: 2023-03-06T10:40:21-05:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
Ext Ltg Fixture @ Door	Lihtonia ARC LED	☐ Linear	17	Mfr. Spec	1	New	☐	17	NA: < 6200 lumens	☐	☐
Total Design Watts:								17			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

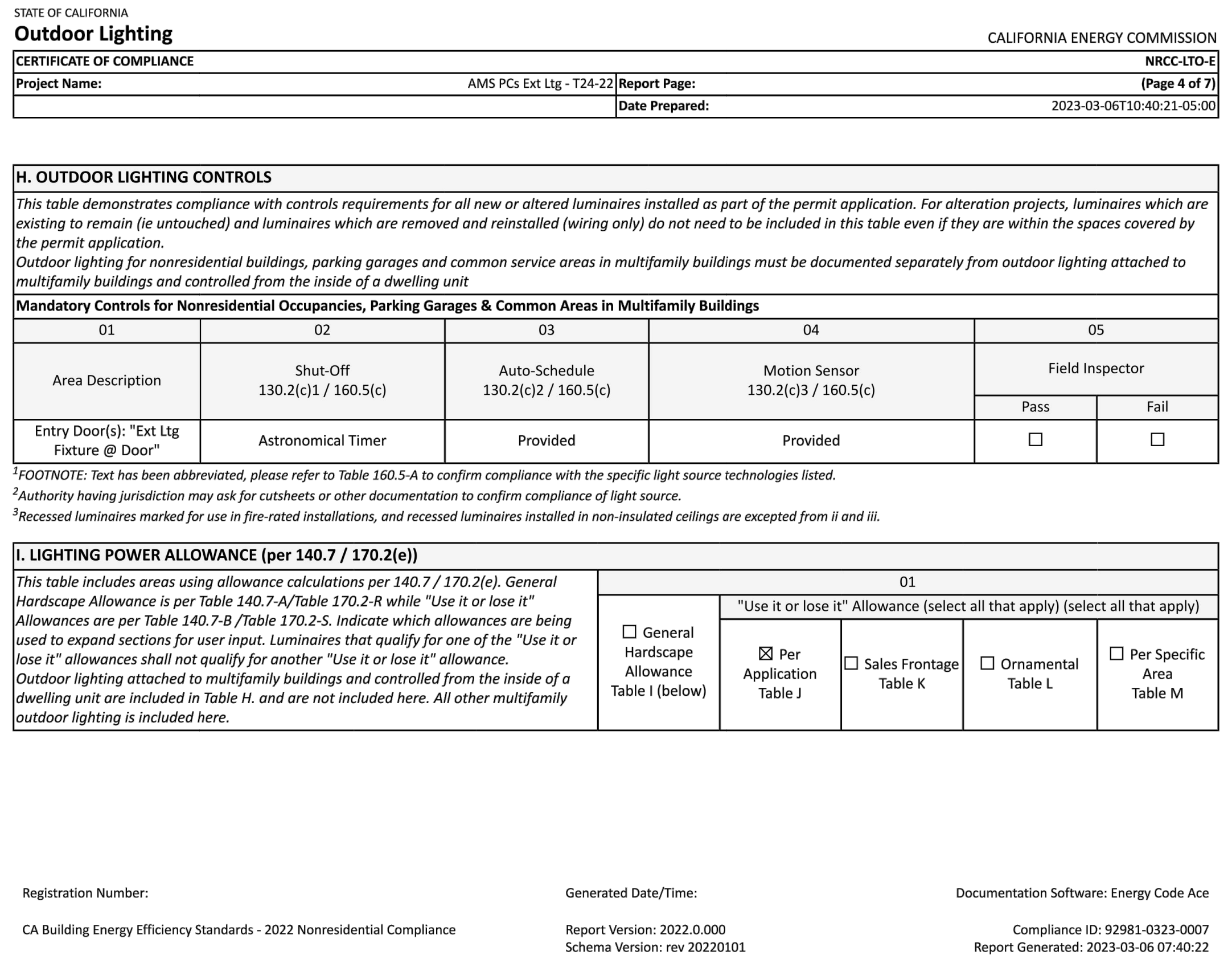
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.



STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: AMS PCs Ext Ltg - T24-22	**Report Page:** **(Page 4 of 7)**
	Date Prepared: 2023-03-06T10:40:21-05:00

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Entry Door(s): "Ext Ltg Fixture @ Door"	Astronomical Timer	Provided	Provided	☐	☐

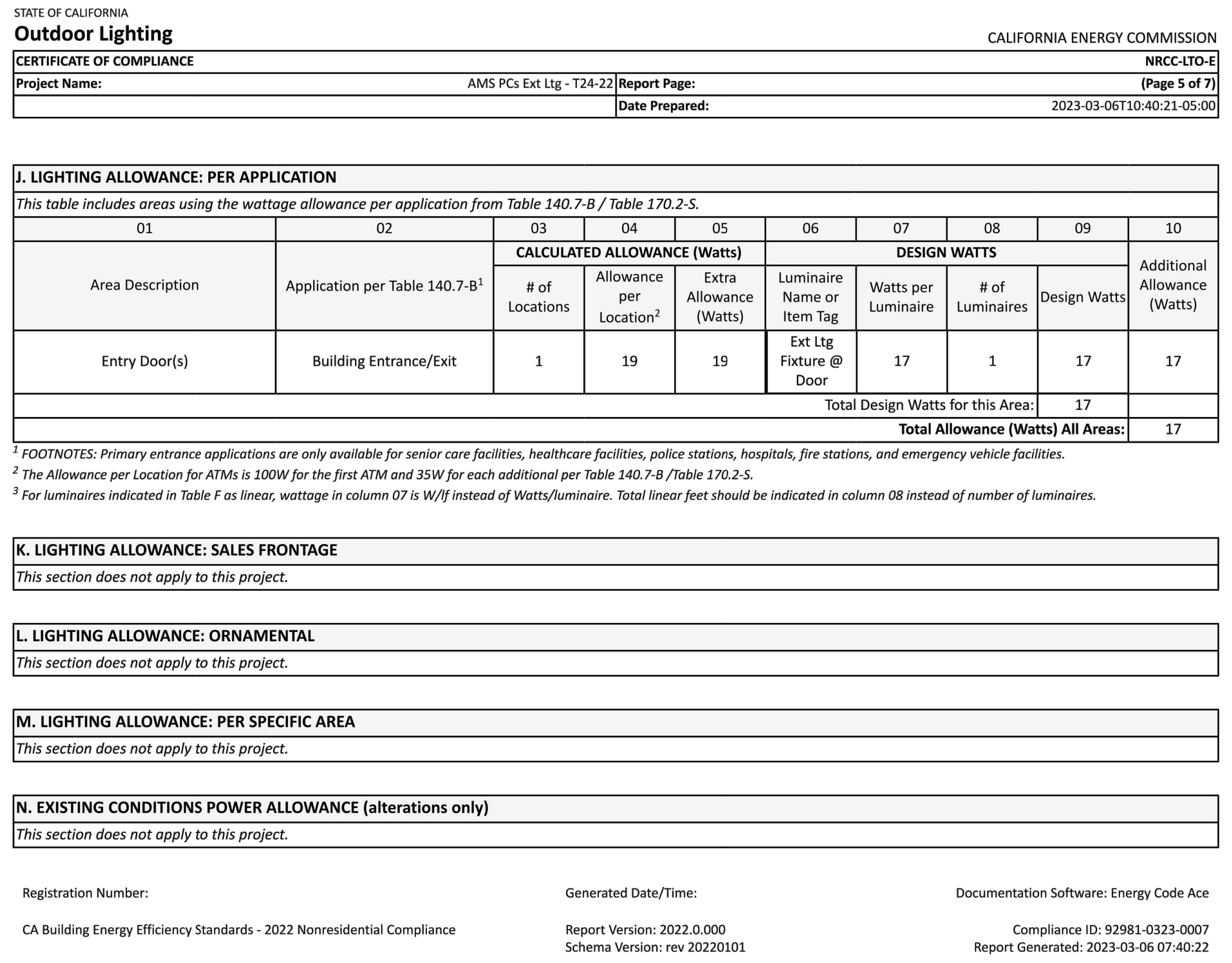
[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.

[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

	01				
This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.	☐ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
		☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M



STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: AMS PCs Ext Ltg - T24-22	**Report Page:** **(Page 5 of 7)**
	Date Prepared: 2023-03-06T10:40:21-05:00

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

01	02	03	04	05	06	07	08	09	10
Area Description	Application per Table 140.7-B[1]	**CALCULATED ALLOWANCE (Watts)**			**DESIGN WATTS**				Additional Allowance (Watts)
		# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
Entry Door(s)	Building Entrance/Exit	1	19	19	Ext Ltg Fixture @ Door	17	1	17	17
Total Design Watts for this Area:								17	
Total Allowance (Watts) All Areas:									17

[1] FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.

[2] The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.

[3] For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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

REVISIONS
1
2
3
4

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

SHEET TITLE:

ENERGY CALCULATIONS SUPPLEMENTAL SHEET

SHEET NUMBER:

EN.10

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	AMS PCs Ext Ltg - T24-22	**Report Page:**	**(Page 6 of 7)**
		Date Prepared:	2023-03-06T10:40:21-05:00

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Entry Door(s): "Ext Ltg Fixture @ Door"

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 92981-0323-0007
Report Generated: 2023-03-06 07:40:22

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	AMS PCs Ext Ltg - T24-22	**Report Page:**	**(Page 7 of 7)**
Project Address:		**Date Prepared:**	2023-03-06T10:40:21-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman	Documentation Author Signature:
Company: Marsman Consulting	Signature Date:
Address: 1150 J Street #409	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Diego, CA 92101	Phone: (619) 573-6374

CEA
Hans Marsman
R19-20-30039 NR19-09-30012
Digitally signed by Hans Marsman, LEED AP, CEA
Date: 2023.03.06 09:51:37-06'00'

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name: Randall P Cavannagh	Responsible Designer Signature:
Company: American Modular Systems | Gen7 Schools	Date Signed: 03/04/2023
Address: 787 Spreckels Avenue	License: C12631
City/State/Zip: Manteca, CA 95336	Phone: 209.825.1921

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 92981-0323-0007
Report Generated: 2023-03-06 07:40:22

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE **NRCC-PLB-E**

This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.

Project Name:	AMS PCs Water Heating - T24-22	**Report Page:**	**(Page 1 of 6)**
Project Address:		**Date Prepared:**	2023-03-06T10:41:54-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Palmdale	02	Climate Zone	14
03	Occupancy Types Within Project (select all that apply):				

- Classroom

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./ 170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03		
My project consists of (check all that apply):	System Type^{1,2}	System Components		
☒ New system (DHW system being installed for the first time in newly constructed building)	Individual System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

[1] FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
[2] Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.
[3] DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 92981-0323-0009
Report Generated: 2023-03-06 07:41:56

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	AMS PCs Water Heating - T24-22	**Report Page:**	**(Page 2 of 6)**
		Date Prepared:	2023-03-06T10:41:54-05:00

E. ADDITIONAL REMARKS

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

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03		04		05		06		
System Name	EWH-1	Exception to 140.5(c)/ 170.2(d)3	Exceptions Do Not Apply	☐	Gas Service Water Heating System >= 1MMBtu/h^1	Capacity-weighted Average Efficiency %		
07	08	09	10		11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
EWH-1	Commercial Electric Storage Water Heater	20	6,824					1.25	1.65

[1] FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☒	☐	☐	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6
21	☐	☐	☒	School buildings < 25,000 ft^2 and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
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Compliance ID: 92981-0323-0009
Report Generated: 2023-03-06 07:41:56

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	AMS PCs Water Heating - T24-22	**Report Page:**	**(Page 3 of 6)**
		Date Prepared:	2023-03-06T10:41:54-05:00

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☐	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft^2 per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
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Compliance ID: 92981-0323-0009
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STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	AMS PCs Water Heating - T24-22	**Report Page:**	**(Page 4 of 6)**
		Date Prepared:	2023-03-06T10:41:54-05:00

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	☐	☐	☒	Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity {d:gte/] 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-PLB-E - Must be submitted for all buildings

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
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Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	AMS PCs Water Heating - T24-22	**Report Page:**	**(Page 5 of 6)**
		Date Prepared:	2023-03-06T10:41:54-05:00

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
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STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-PLB-E**
Project Name:	AMS PCs Water Heating - T24-22	**Report Page:**	**(Page 6 of 6)**
Project Address:		**Date Prepared:**	2023-03-06T10:41:54-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman	Documentation Author Signature:
Company: Marsman Consulting	Signature Date:
Address: 1150 J Street #409	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Diego, CA 92101	Phone: (619) 573-6374

CEA
Hans Marsman
R19-20-30039 NR19-09-30012
Digitally signed by Hans Marsman, LEED AP, CEA
Date: 2023.03.06 09:51:00-06'00'

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name: Randall P Cavannagh	Responsible Designer Signature:
Company: American Modular Systems | Gen7 Schools	Date Signed: 03/04/2023
Address: 787 Spreckels Avenue	License: C12631
City/State/Zip: Manteca, CA 95336	Phone: 209.825.1921

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
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CALIFORNIA ENERGY COMMISSION

ELECTRICAL POWER DISTRIBUTION

CEC-NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential and hotel/motel occupancies and §160.6 and §160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential & hotel/motel occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per §180.1(a) or §180.2(b)4Bvii.

Project Name: PC 48'-240'x40'	Enforcement Agency: DSA
Dwelling Address: N/A	Permit Number: N/A
City and Zip Code: N/A	Permit Application Date:

A. GENERAL INFORMATION

01	Project Location (city)					02	Climate Zone				
						03	Occupancy Types Within Project:				
☐	Office	☐	Retail	☐	Warehouse	☐	Hotel/ Motel	☒	School	☐	Support Areas
☐	High-Rise Residential Multifamily/ MF Mixed-use >= 4 stories (new construction)	☐	High-Rise Residential Multifamily/ MF Mixed-use >= 4 stories (Addition or Alteration)	☐	Healthcare Facilities	☐	Parking Garage				
				☐	Relocatable	☐	All Others	☐	Theater	☐	Sports Arena
☐	Auditorium	☐	Commercial/ Industrial	☐	Grocery Store	☐	Religious Facility	☐	Data Center	☐	Convention Center
☐	Classroom	☐	Library	☐	Gymnasium	☐	Restaurant/ Commercial Kitchen	☐	Financial Institution	☐	Medical Clinic

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance January 2022

CALIFORNIA ENERGY COMMISSION

ELECTRICAL POWER DISTRIBUTION

CEC-NRCC-ELC-E

B. PROJECT SCOPE

This table includes electrical service systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work^1	Rating^2 (kVA)	Utility Provided Metering System Exception to §130.5(a)/§160.6(a)^3	System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)	Demand Response Controls Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standard based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2/§160.3, §130.1/§160.5 and §130.3/§160.5 and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents-will indicate when demand response controls are required.	Provides power to dwelling units/common living areas only in multifamily occupancy
			☐	☐		☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily occupancy are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance January 2022

CALIFORNIA ENERGY COMMISSION

ELECTRICAL POWER DISTRIBUTION

CEC-NRCC-ELC-E

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J.

Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable Table referenced below.

01		02		03		04		05	06
Service Electrical Metering §130.5(a)/ §160.6(a)	AND	Separation for Monitoring §130.5(b)/ §160.6(b)	AND	Voltage Drop §130.5(c)/ §160.6(c)	AND	Controlled Receptacles §130.5(d)/ §160.6(d)	AND	Electric Ready §160.9	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)	
Yes/No	**AND**	Yes/No	**AND**	Yes/No	**AND**	Yes/No	**AND**	Yes/No	**COMPLIES, DOES NOT COMPLY, Or COMPLIES with Exceptional Conditions**

D. EXCEPTIONAL CONDITIONS

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

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance January 2022

CALIFORNIA ENERGY COMMISSION

ELECTRICAL POWER DISTRIBUTION

CEC-NRCC-ELC-E

E. ADDITIONAL REMARKS

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

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a)/§160.6(a). For multifamily occupancies, submetered systems that provide power to common use areas must meet the following metering requirements. Submetered systems providing power to dwelling units do not.

01	02	**F. SERVICE ELECTRICAL METERING** 03				04	05	
		Required Metering Capabilities per Table 130.5-A					Field Inspector	
Electrical Service Designation/ Description	Rating^1 (kVA)	Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period	Location of Requirements in Construction Documents	Pass	Fail
		☐	☐	☐	☐		☐	☐
		☐	☐	☐	☐		☐	☐

[1] FOOTNOTES: If common use areas in a multifamily occupancy are submetered, rating is for submeter size serving common use areas.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance January 2022

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RANDAL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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

REVISIONS

1
2
3
4

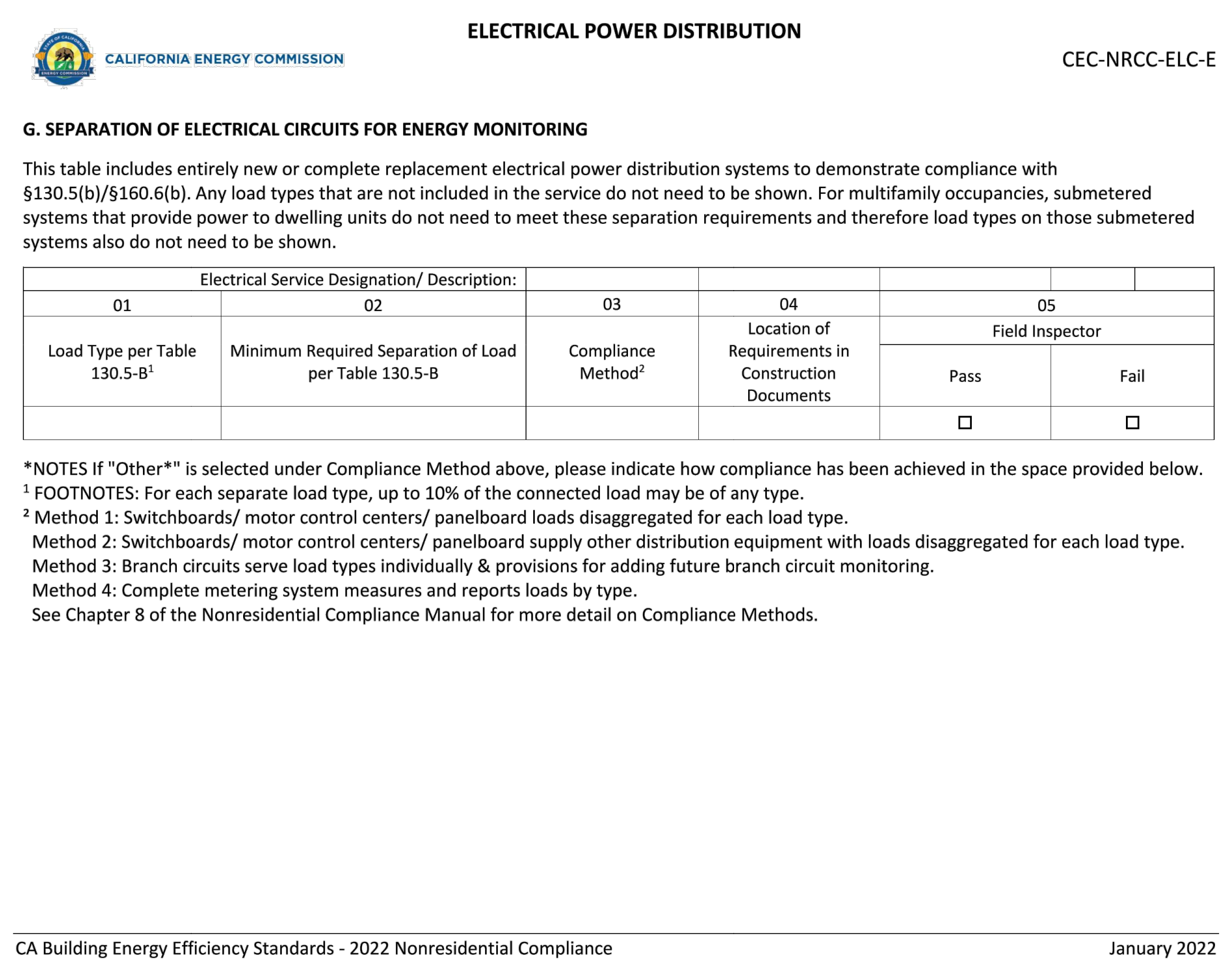
DRAWN BY:	
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-XX

SHEET TITLE:

ENERGY CALCULATIONS SUPPLEMENTAL SHEET

SHEET NUMBER:

EN.11



G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

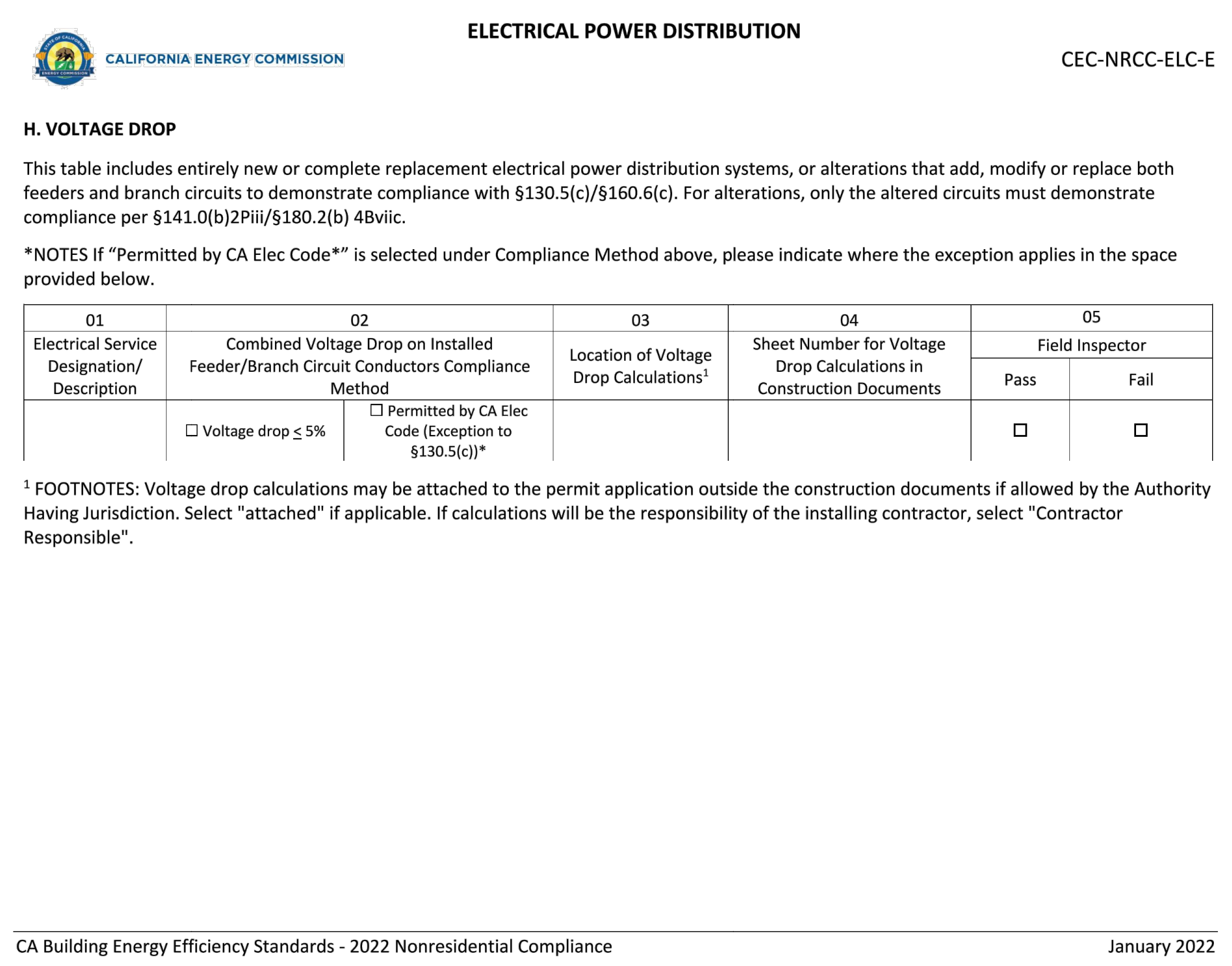
This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b)/§160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

Electrical Service Designation/ Description:					
01	02	03	04	05	
				Field Inspector	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Pass	Fail
				☐	☐

NOTES If "Other" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.

[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.

[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually & provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.



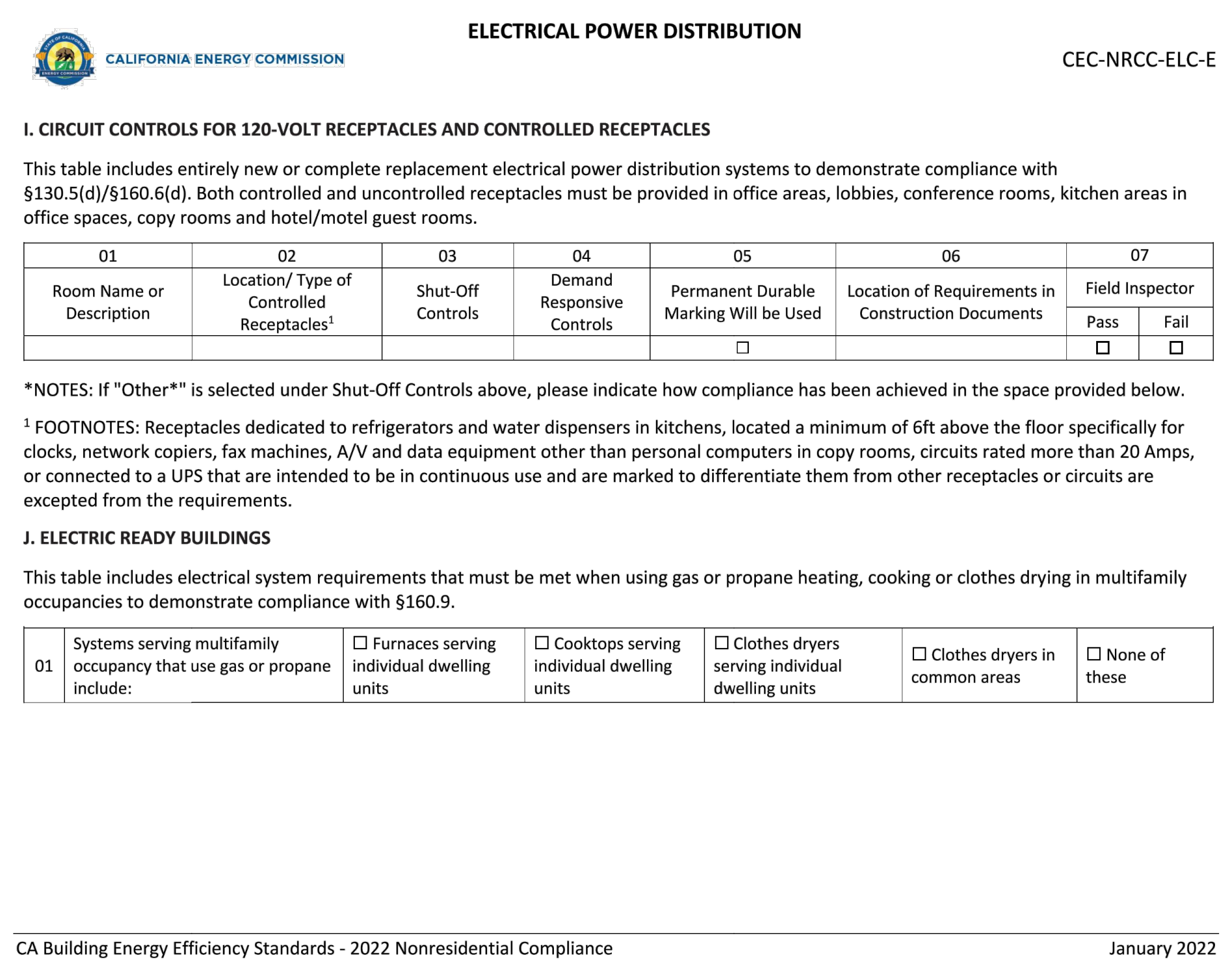
H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c)/§160.6(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Piii/§180.2(b) 4Bviic.

NOTES If "Permitted by CA Elec Code" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.

01	02		03	04	05	
					Field Inspector	
Electrical Service Designation/ Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method		Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Pass	Fail
	☐ Voltage drop ≤ 5%	☐ Permitted by CA Elec Code (Exception to §130.5(c))*			☐	☐

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



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

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d)/§160.6(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	07	
						Field Inspector	
Room Name or Description	Location/ Type of Controlled Receptacles[1]	Shut-Off Controls	Demand Responsive Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Pass	Fail
				☐		☐	☐

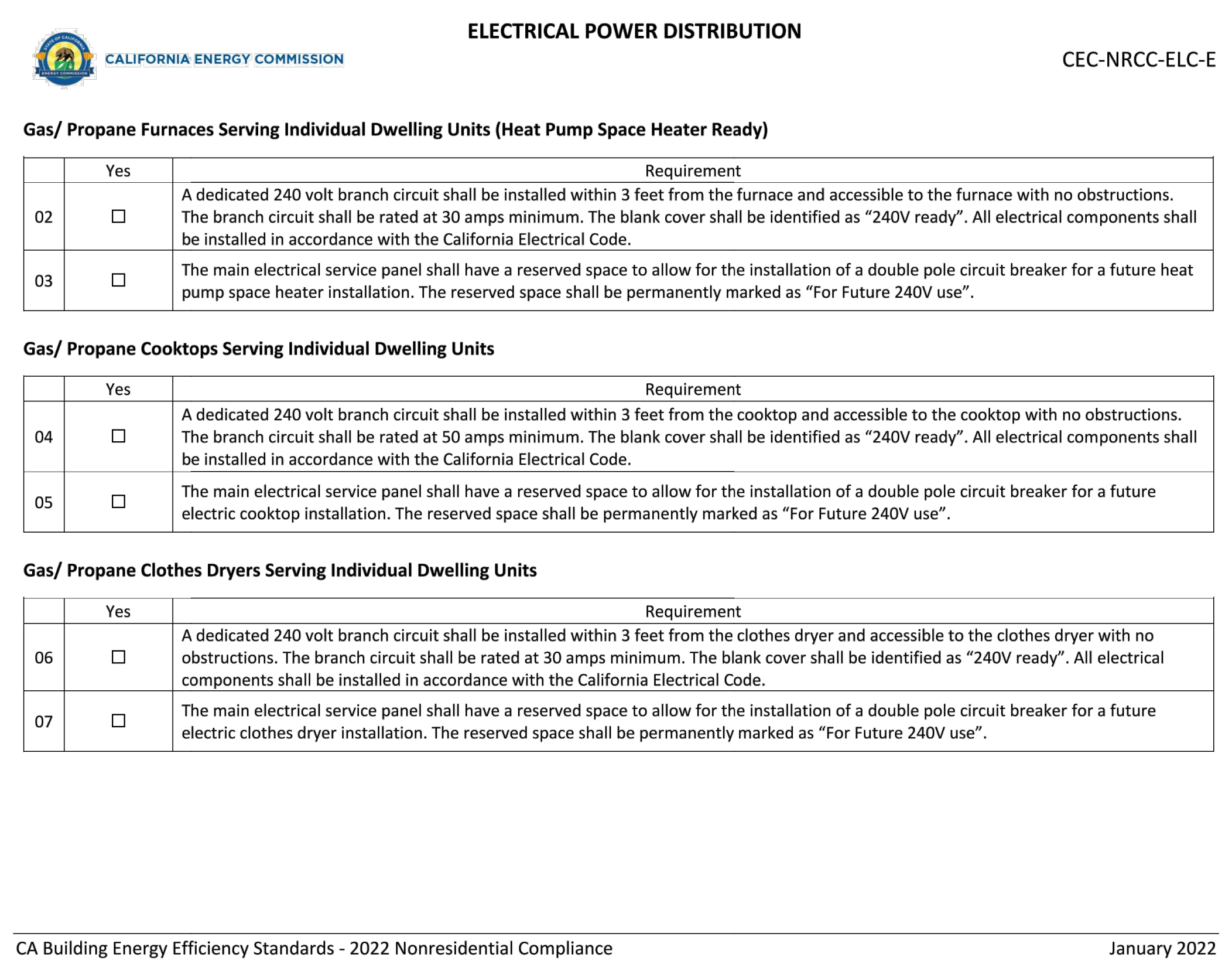
NOTES: If "Other" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.

[1] FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements.

J. ELECTRIC READY BUILDINGS

This table includes electrical system requirements that must be met when using gas or propane heating, cooking or clothes drying in multifamily occupancies to demonstrate compliance with §160.9.

01	Systems serving multifamily occupancy that use gas or propane include:	☐ Furnaces serving individual dwelling units	☐ Cooktops serving individual dwelling units	☐ Clothes dryers serving individual dwelling units	☐ Clothes dryers in common areas	☐ None of these



Gas/ Propane Furnaces Serving Individual Dwelling Units (Heat Pump Space Heater Ready)

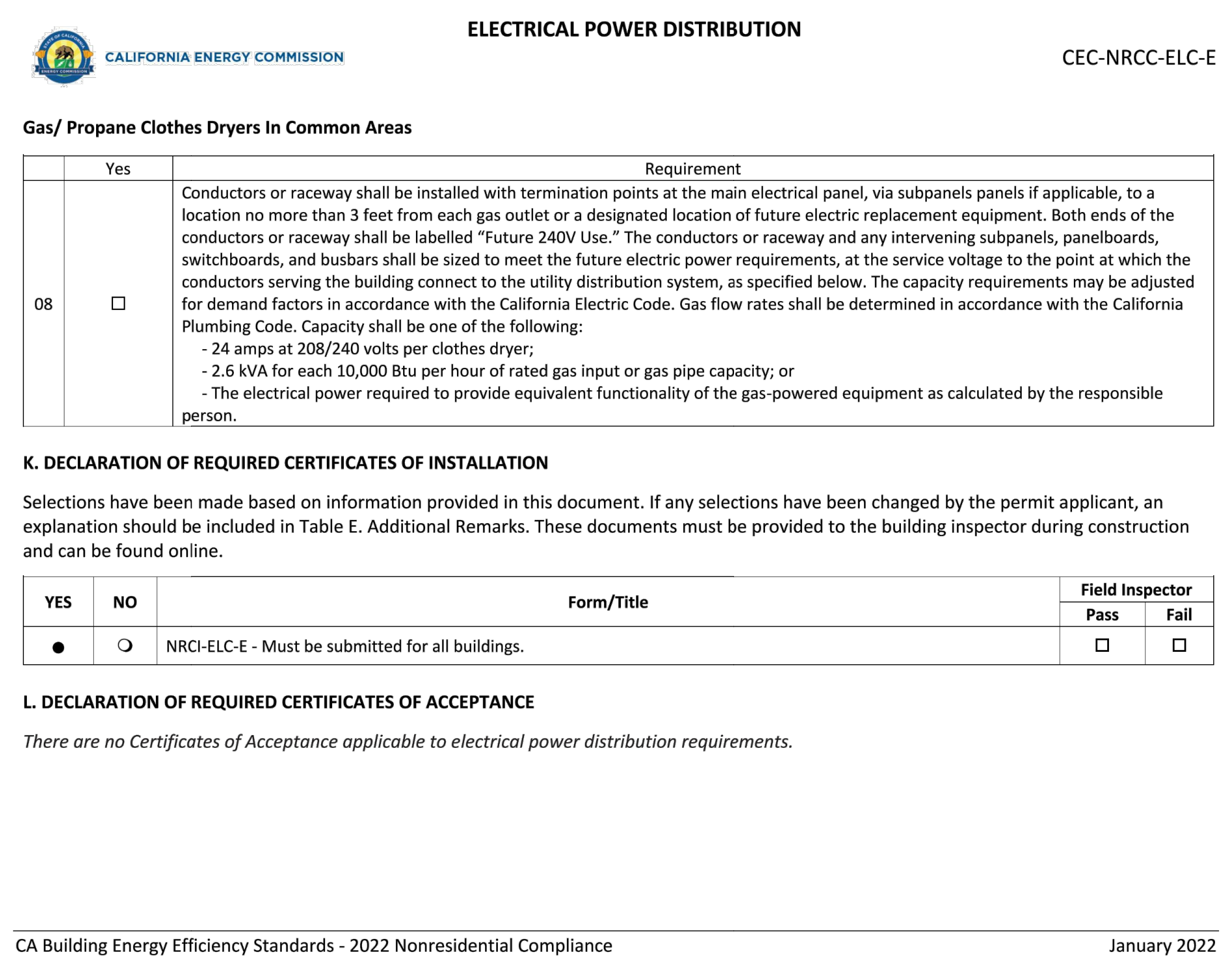
	Yes	Requirement
02	☐	A dedicated 240 volt branch circuit shall be installed within 3 feet from the furnace and accessible to the furnace with no obstructions. The branch circuit shall be rated at 30 amps minimum. The blank cover shall be identified as "240V ready". All electrical components shall be installed in accordance with the California Electrical Code.
03	☐	The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future heat pump space heater installation. The reserved space shall be permanently marked as "For Future 240V use".

Gas/ Propane Cooktops Serving Individual Dwelling Units

	Yes	Requirement
04	☐	A dedicated 240 volt branch circuit shall be installed within 3 feet from the cooktop and accessible to the cooktop with no obstructions. The branch circuit shall be rated at 50 amps minimum. The blank cover shall be identified as "240V ready". All electrical components shall be installed in accordance with the California Electrical Code.
05	☐	The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future electric cooktop installation. The reserved space shall be permanently marked as "For Future 240V use".

Gas/ Propane Clothes Dryers Serving Individual Dwelling Units

	Yes	Requirement
06	☐	A dedicated 240 volt branch circuit shall be installed within 3 feet from the clothes dryer and accessible to the clothes dryer with no obstructions. The branch circuit shall be rated at 30 amps minimum. The blank cover shall be identified as "240V ready". All electrical components shall be installed in accordance with the California Electrical Code.
07	☐	The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future electric clothes dryer installation. The reserved space shall be permanently marked as "For Future 240V use".



Gas/ Propane Clothes Dryers In Common Areas

	Yes	Requirement
08	☐	Conductors or raceway shall be installed with termination points at the main electrical panel, via subpanels panels if applicable, to a location no more than 3 feet from each gas outlet or a designated location of future electric replacement equipment. Both ends of the conductors or raceway shall be labelled "Future 240V Use." The conductors or raceway and any intervening subpanels, panelboards, switchboards, and busbars shall be sized to meet the future electric power requirements, at the service voltage to the point at which the conductors serving the building connect to the utility distribution system, as specified below. The capacity requirements may be adjusted for demand factors in accordance with the California Electric Code. Gas flow rates shall be determined in accordance with the California Plumbing Code. Capacity shall be one of the following: - 24 amps at 208/240 volts per clothes dryer; - 2.6 kVA for each 10,000 Btu per hour of rated gas input or gas pipe capacity; or - The electrical power required to provide equivalent functionality of the gas-powered equipment as calculated by the responsible person.

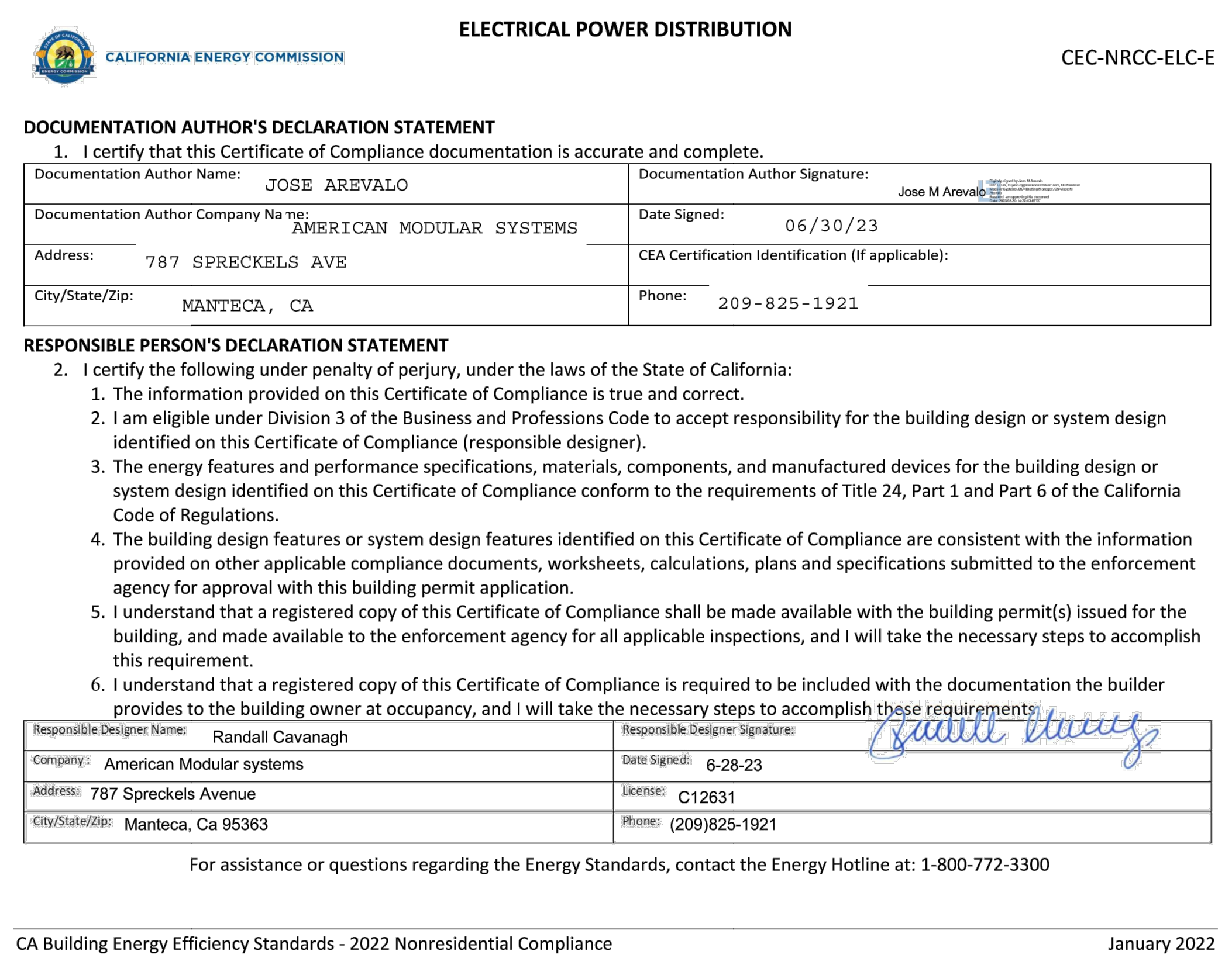
K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-ELC-E - Must be submitted for all buildings.	☐	☐

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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



DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

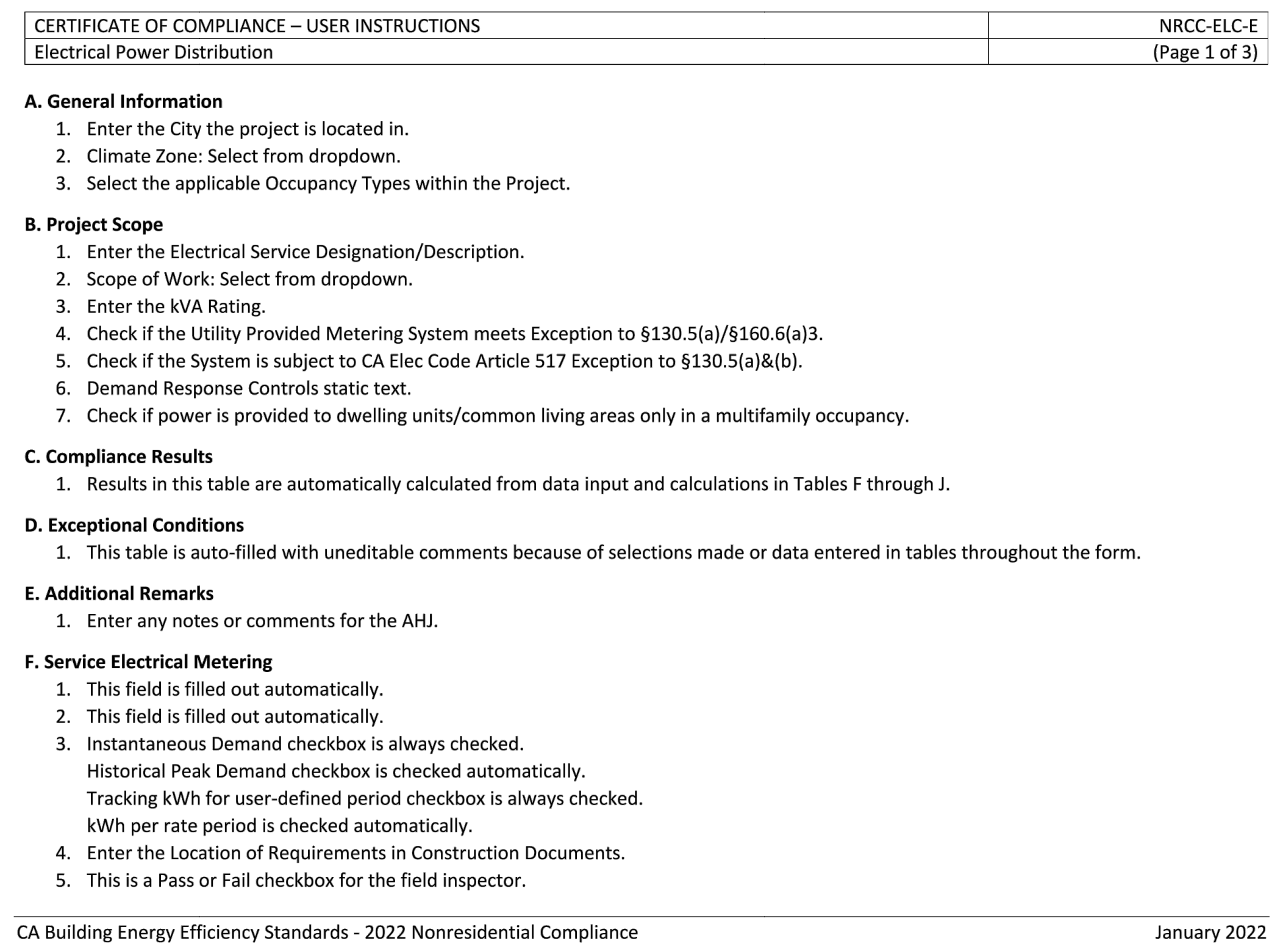
Documentation Author Name: JOSE AREVALO	Documentation Author Signature: Jose M Arevalo
Documentation Author Company Name: AMERICAN MODULAR SYSTEMS	Date Signed: 06/30/23
Address: 787 SPRECKELS AVE	CEA Certification Identification (If applicable):
City/State/Zip: MANTECA, CA	Phone: 209-825-1921

RESPONSIBLE PERSON'S DECLARATION STATEMENT

2. 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: Randall Cavanagh	Responsible Designer Signature: Randall Cavanagh
Company: American Modular systems	Date Signed: 6-28-23
Address: 787 Spreckels Avenue	License: C12631
City/State/Zip: Manteca, Ca 95363	Phone: (209)825-1921

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300



CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ELC-E
Electrical Power Distribution	(Page 1 of 3)

A. General Information

1. Enter the City the project is located in.
2. Climate Zone: Select from dropdown.
3. Select the applicable Occupancy Types within the Project.

B. Project Scope

1. Enter the Electrical Service Designation/Description.
2. Scope of Work: Select from dropdown.
3. Enter the kVA Rating.
4. Check if the Utility Provided Metering System meets Exception to §130.5(a)/§160.6(a)3.
5. Check if the System is subject to CA Elec Code Article 517 Exception to §130.5(a)&(b).
6. Demand Response Controls static text.
7. Check if power is provided to dwelling units/common living areas only in a multifamily occupancy.

C. Compliance Results

1. Results in this table are automatically calculated from data input and calculations in Tables F through J.

D. Exceptional Conditions

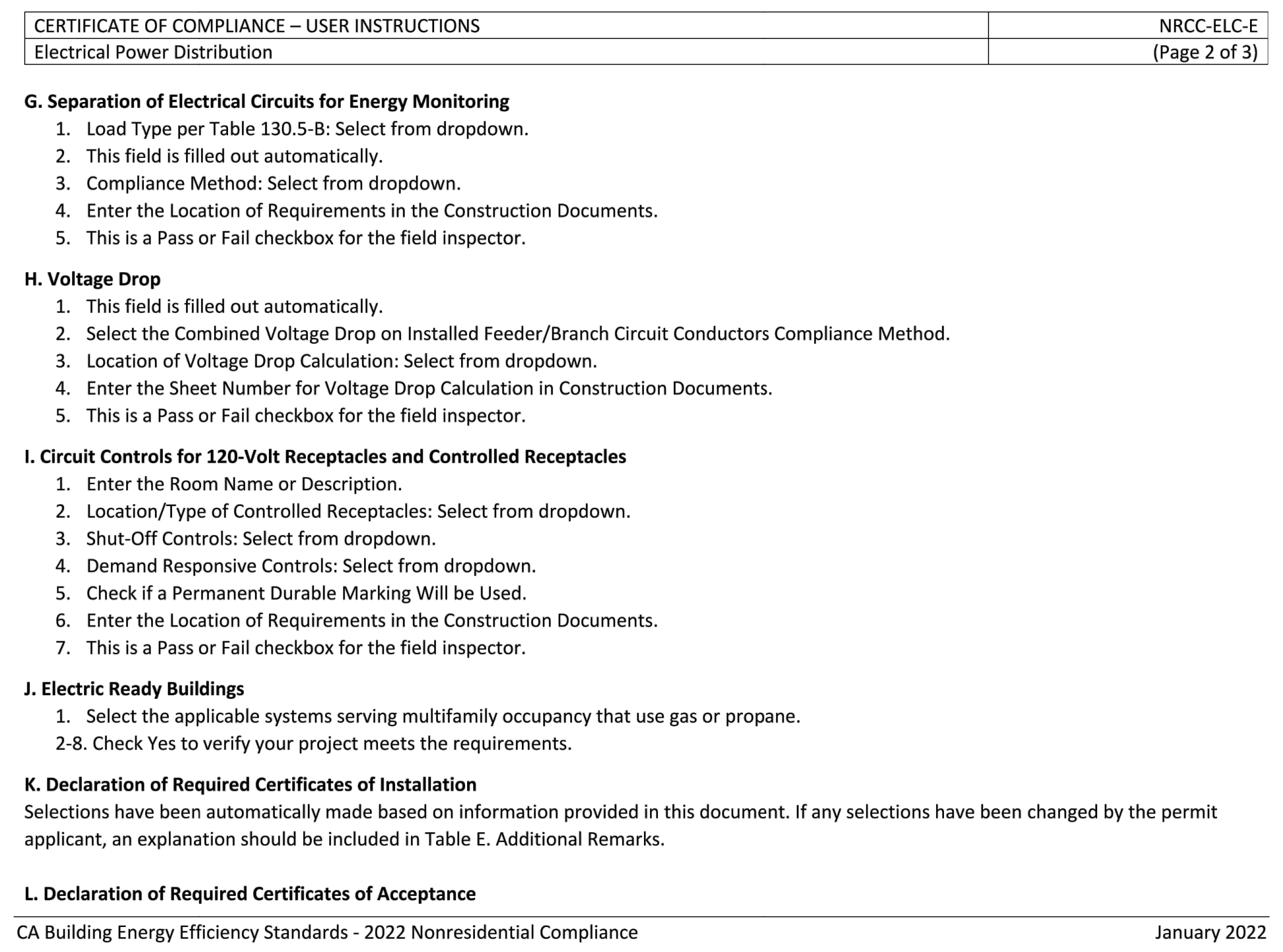
1. This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. Additional Remarks

1. Enter any notes or comments for the AHJ.

F. Service Electrical Metering

1. This field is filled out automatically.
2. This field is filled out automatically.
3. Instantaneous Demand checkbox is always checked.
   Historical Peak Demand checkbox is checked automatically.
   Tracking kWh for user-defined period checkbox is always checked.
   kWh per rate period is checked automatically.
4. Enter the Location of Requirements in Construction Documents.
5. This is a Pass or Fail checkbox for the field inspector.



CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ELC-E
Electrical Power Distribution	(Page 2 of 3)

G. Separation of Electrical Circuits for Energy Monitoring

1. Load Type per Table 130.5-B: Select from dropdown.
2. This field is filled out automatically.
3. Compliance Method: Select from dropdown.
4. Enter the Location of Requirements in the Construction Documents.
5. This is a Pass or Fail checkbox for the field inspector.

H. Voltage Drop

1. This field is filled out automatically.
2. Select the Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method.
3. Location of Voltage Drop Calculation: Select from dropdown.
4. Enter the Sheet Number for Voltage Drop Calculation in Construction Documents.
5. This is a Pass or Fail checkbox for the field inspector.

I. Circuit Controls for 120-Volt Receptacles and Controlled Receptacles

1. Enter the Room Name or Description.
2. Location/Type of Controlled Receptacles: Select from dropdown.
3. Shut-Off Controls: Select from dropdown.
4. Demand Responsive Controls: Select from dropdown.
5. Check if a Permanent Durable Marking Will be Used.
6. Enter the Location of Requirements in the Construction Documents.
7. This is a Pass or Fail checkbox for the field inspector.

J. Electric Ready Buildings

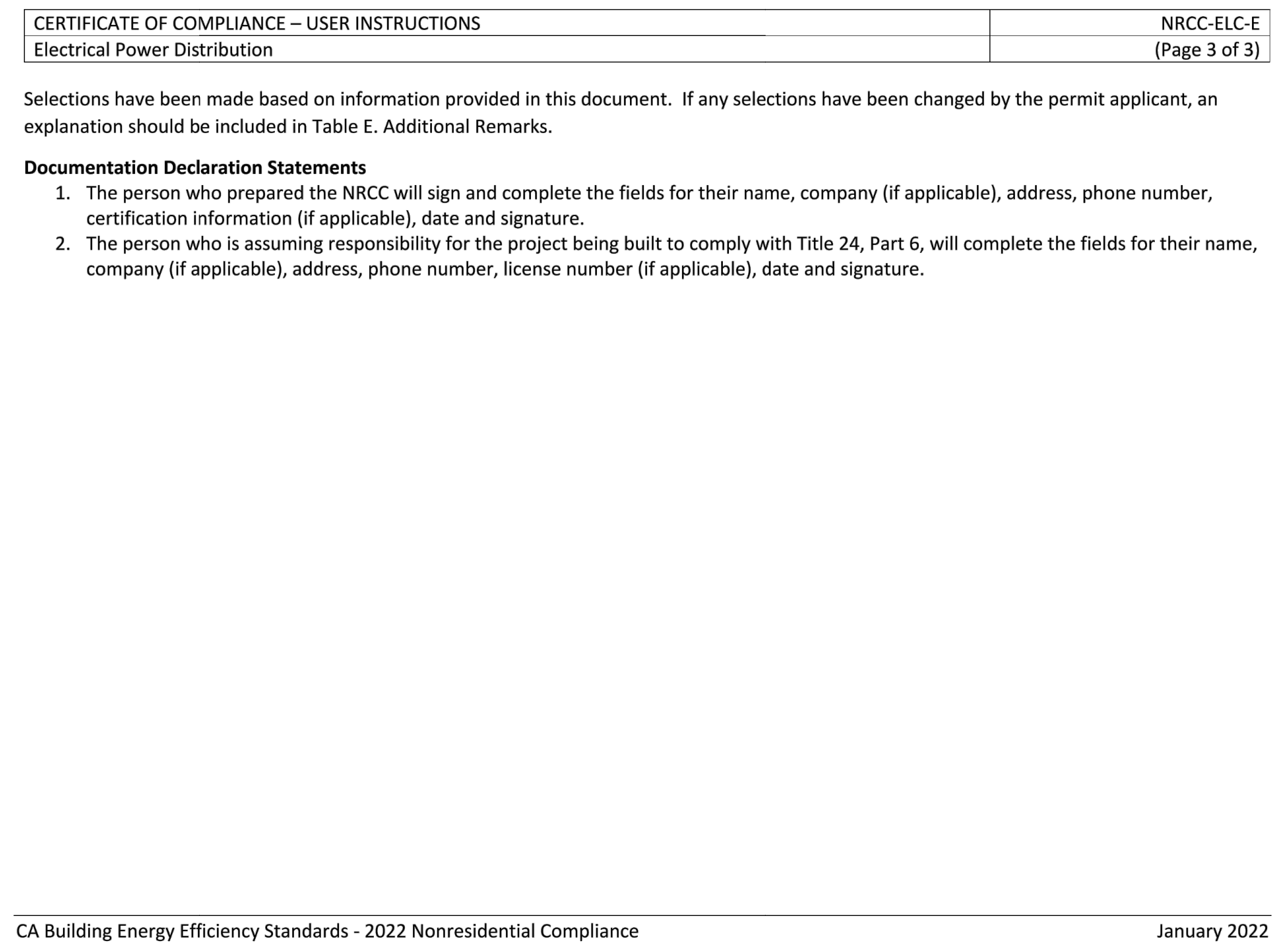
1. Select the applicable systems serving multifamily occupancy that use gas or propane.

2-8. Check Yes to verify your project meets the requirements.

K. Declaration of Required Certificates of Installation

Selections have been automatically made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks.

L. Declaration of Required Certificates of Acceptance

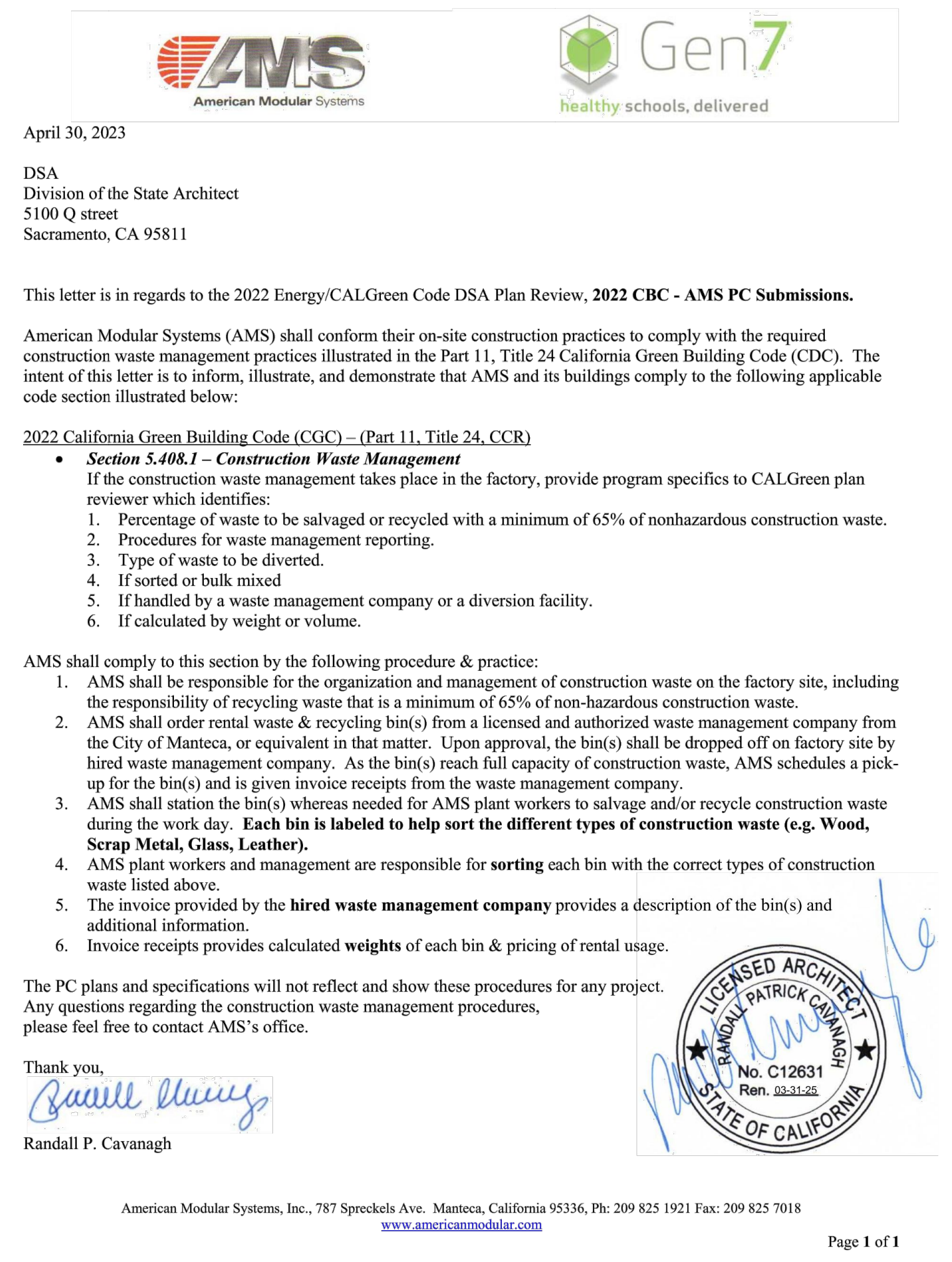


CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS	NRCC-ELC-E
Electrical Power Distribution	(Page 3 of 3)

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks.

Documentation Declaration Statements

1. The person who prepared the NRCC will sign and complete the fields for their name, company (if applicable), address, phone number, certification information (if applicable), date and signature.
2. The person who is assuming responsibility for the project being built to comply with Title 24, Part 6, will complete the fields for their name, company (if applicable), address, phone number, license number (if applicable), date and signature.



American Modular Systems

Gen7 healthy schools, delivered

April 30, 2023

DSA
Division of the State Architect
5100 Q street
Sacramento, CA 95811

This letter is in regards to the 2022 Energy/CALGreen Code DSA Plan Review, **2022 CBC - AMS PC Submissions.**

American Modular Systems (AMS) shall conform their on-site construction practices to comply with the required construction waste management practices illustrated in the Part 11, Title 24 California Green Building Code (CDC). The intent of this letter is to inform, illustrate, and demonstrate that AMS and its buildings comply to the following applicable code section illustrated below:

2022 California Green Building Code (CGC) – (Part 11, Title 24, CCR)

- ***Section 5.408.1 – Construction Waste Management***
  If the construction waste management takes place in the factory, provide program specifics to CALGreen plan reviewer which identifies:
  1. Percentage of waste to be salvaged or recycled with a minimum of 65% of nonhazardous construction waste.
  2. Procedures for waste management reporting.
  3. Type of waste to be diverted.
  4. If sorted or bulk mixed
  5. If handled by a waste management company or a diversion facility.
  6. If calculated by weight or volume.

AMS shall comply to this section by the following procedure & practice:

1. AMS shall be responsible for the organization and management of construction waste on the factory site, including the responsibility of recycling waste that is a minimum of 65% of non-hazardous construction waste.
2. AMS shall order rental waste & recycling bin(s) from a licensed and authorized waste management company from the City of Manteca, or equivalent in that matter. Upon approval, the bin(s) shall be dropped off on factory site by hired waste management company. As the bin(s) reach full capacity of construction waste, AMS schedules a pick-up for the bin(s) and is given invoice receipts from the waste management company.
3. AMS shall station the bin(s) whereas needed for AMS plant workers to salvage and/or recycle construction waste during the work day. **Each bin is labeled to help sort the different types of construction waste (e.g. Wood, Scrap Metal, Glass, Leather).**
4. AMS plant workers and management are responsible for **sorting** each bin with the correct types of construction waste listed above.
5. The invoice provided by the **hired waste management company** provides a description of the bin(s) and additional information.
6. Invoice receipts provides calculated **weights** of each bin & pricing of rental usage.

The PC plans and specifications will not reflect and show these procedures for any project.
Any questions regarding the construction waste management procedures,
please feel free to contact AMS's office.

Thank you,

Randall Cavanagh

Randall P. Cavanagh

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 03-31-25

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

.
.
.

~~APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122042 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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

REVISIONS

1	
2	
3	
4	

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

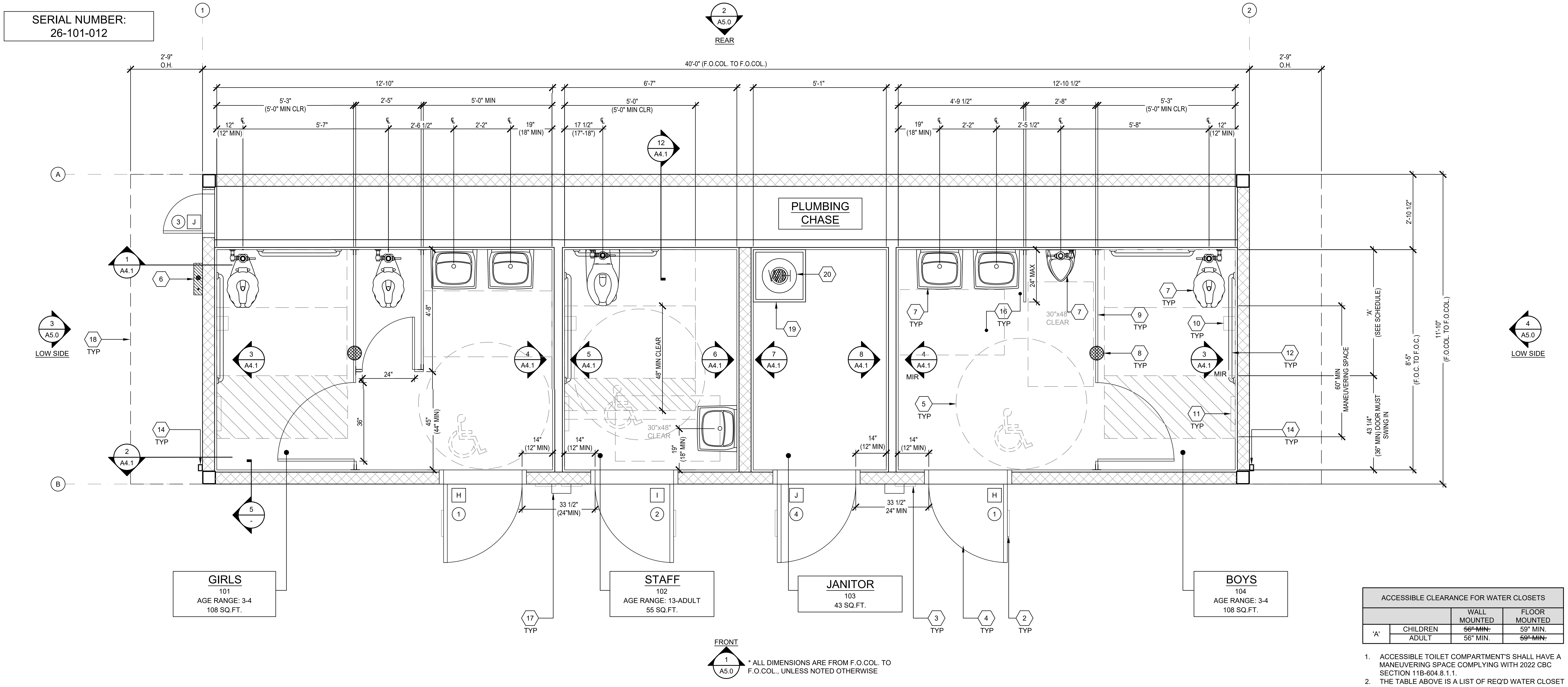
SHEET TITLE:

ENERGY CALCULATIONS SUPPLEMENTAL SHEET

SHEET NUMBER:

EN.12

SERIAL NUMBER:
26-101-012



* ALL DIMENSIONS ARE FROM F.O.COL. TO F.O.COL., UNLESS NOTED OTHERWISE

ACCESSIBLE CLEARANCE FOR WATER CLOSETS			
		WALL MOUNTED	FLOOR MOUNTED
'A'	CHILDREN	~~56" MIN.~~	59" MIN.
	ADULT	56" MIN.	~~59" MIN.~~

1. ACCESSIBLE TOILET COMPARTMENT'S SHALL HAVE A MANEUVERING SPACE COMPLYING WITH 2022 CBC SECTION 11B-604.8.1.1.
2. THE TABLE ABOVE IS A LIST OF REQ'D WATER CLOSET CLEARANCE. THE W.C. MANEUVERING SPACE IS LOCATED IN FRONT OF THE W.C. AND IS DESCRIBED IN 11B-604.8.1.1.1, 11B-604.8.1.1.2 AND 11B-604.8.1.1.3 DEPENDING ON IF THE DOOR IS END-OPENING OR SIDE-OPENING AND DIRECTION OF SWING.
3. THE MANEUVERING CLEARANCE FOR ALL ACCESSIBLE TOILET COMPARTMENTS SHOWN IN THESE PLANS SHALL COMPLY WITH 11B-604.8.1.1.1 (IN-SWINGING) & 11B-604.8.1.1.2. (SIDE-OPENING)
4. THE ACCESSIBLE COMPARTMENT DOOR IS NOT PERMITTED TO SWING OVER CLEARANCE SCHEDULED 'A'

NOTE:
IF PAPER TOWEL DISPENSER, HAND DRYER, WASTE CONTAINER SOAP DISPENSER, SANITARY NAPKIN DISPOSAL NOT PROVIDED IN THESE CONSTRUCTION DESIGN DRAWINGS THEY WILL BE REQUIRED TO BE PROVIDED AND LOCATED WITH SITE BUILT FLOOR PLANS.

* F.O.COL. = FACE OF COLUMN
F.O.F = FACE OF FINISH

RESTROOM FLOOR PLAN - GIRLS/STAFF/JANITOR/BOYS (AGE RANGE: 13-ADULT & 3-4)

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

SHEET NOTES

1. ~~RESTROOM CONFIGURATION MAY VARY.~~
2. RESTROOM MODULE OCCURS AT END OF BUILDING WHEN COMBINED WITH OTHER MODULES. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
3. NOT USED.
4. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 FOR ATTACHMENTS.
5. REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS AND DIMENSIONS. AGE 13-ADULT IS SHOWN
6. REFER TO DETAILS 1, 3, 4 SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
7. NOT USED
8. SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON PLANS AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
9. PIPING MATERIAL:
   A. WATER: COPPER TYPE "L", 95/5 SOLDER.
   B. WASTE DRAIN AND VENT: ABS.
10. TOILET COMPARTMENT DOORS LOCATED IN THE FRONT PARTITION SHALL BE 4" MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET, PER C.B.C. SECTION 11B-604.8.1.2.
11. ALL RESTROOM AND SINK ACCESSORIES NOT SHOWN HERE MUST BE COORDINATED BY THE PROJECT AOR/DISTRICT BEFORE SUBMITTING SITE-SPECIFIC PLANS TO DSA FOR REVIEW.

PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES - BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY - ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR UON.

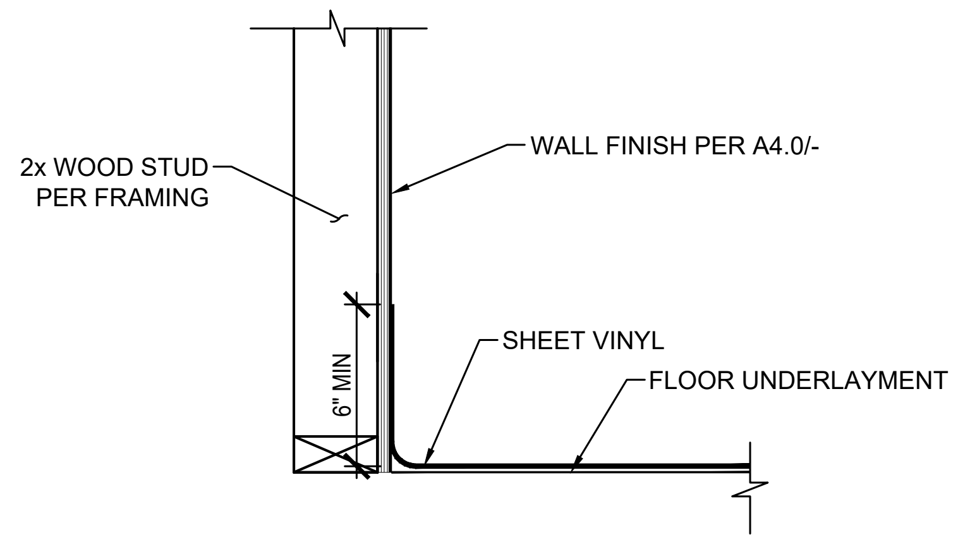
SITE NOTE

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

KEYNOTES

1	NOT USED
2	DOOR SIGNAGE PER 2, 7 OR 8/N4.0 (BY OWNER)
3	RESTROOM I.D. SIGNAGE (BY OTHERS) PER DETAILS 1,3 OR 6, SHEET N4.0
4	TYPICAL DOOR PER SCHEDULE ON SHEET N3.0
5	60" CLEAR TURNING SPACE
6	ELECTRICAL PANEL
7	PLUMBING FIXTURE PER P1.0
8	FLOOR DRAIN (LOCATION MAY VARY) - PER P1.0C 1:48 FLOOR SLOPE MAX
9	TOILET PARTITIONS (HADRIAN METAL, OR EQUAL) PER P2.0
10	TOILET TISSUE DISPENSER (BRADLEY MODEL 508-32, OR EQUAL) PER P2.0
11	TOILET SEAT COVER DISPENSER (BY OTHERS) PER P2.0
12	GRAB BARS - SEE 6/A7.1
13	NOT USED
14	DOWNSPOUT - DISCHARGE TO SPLASH BLOCK
15	NOT USED
16	SHEET VINYL FLOORING w/6" SELF COVE BASE
17	EXTERIOR LIGHT - SEE ELECTRICAL SHEETS
18	OVERHANG
19	JANITOR SINK - PER P1.0
20	WATER HEATER - SEE 6/M1.4 PLATFORM PER 1 & 3/P2.0

NOT USED 4



PROTETCTION OF WOOD WALLS @ TOILET RM 5
SCALE : 1/4"=1'-0"

(NO HATCH)

☐	2X4 WALLS
▨	2X6 WALLS

WALL LEGEND

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

SYMBOLS LEGEND

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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PRE-CHECKED SET NAME
12'x40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(1) 12'x40' RESTROOM

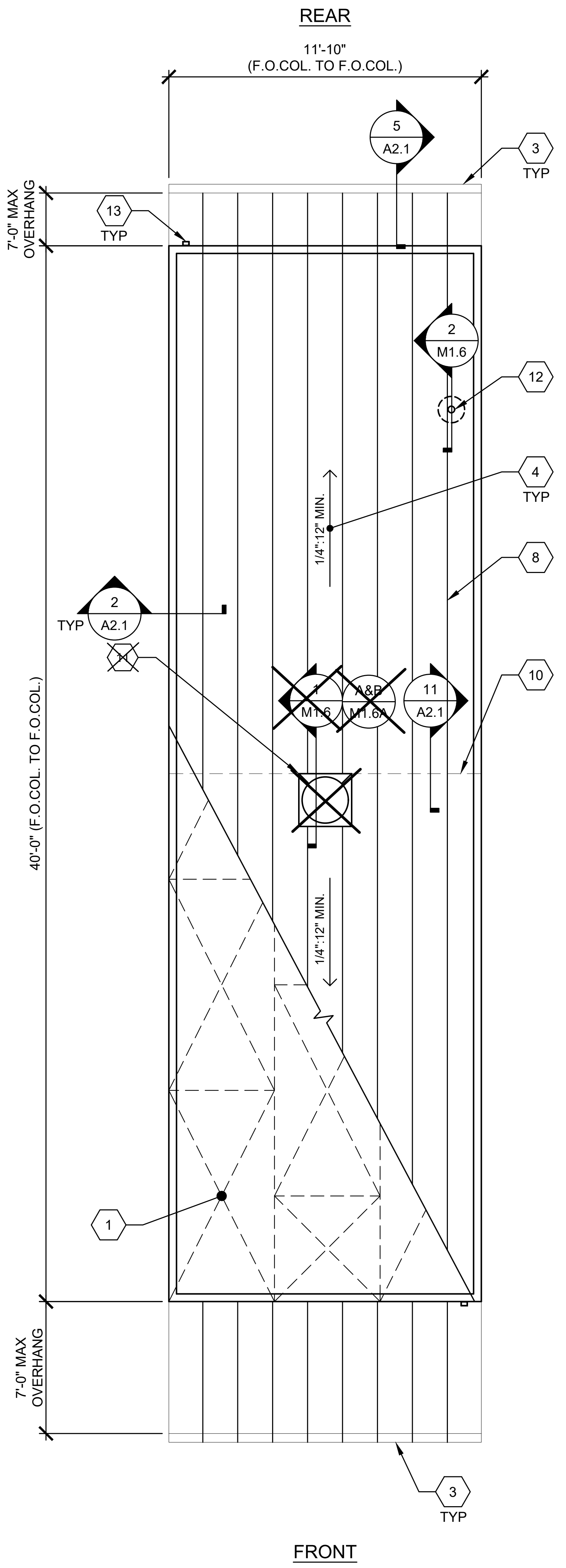
MANUFACTURER PROFESSIONAL OF RECORD
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-27

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

REVISIONS
△1
△2
△3
△4

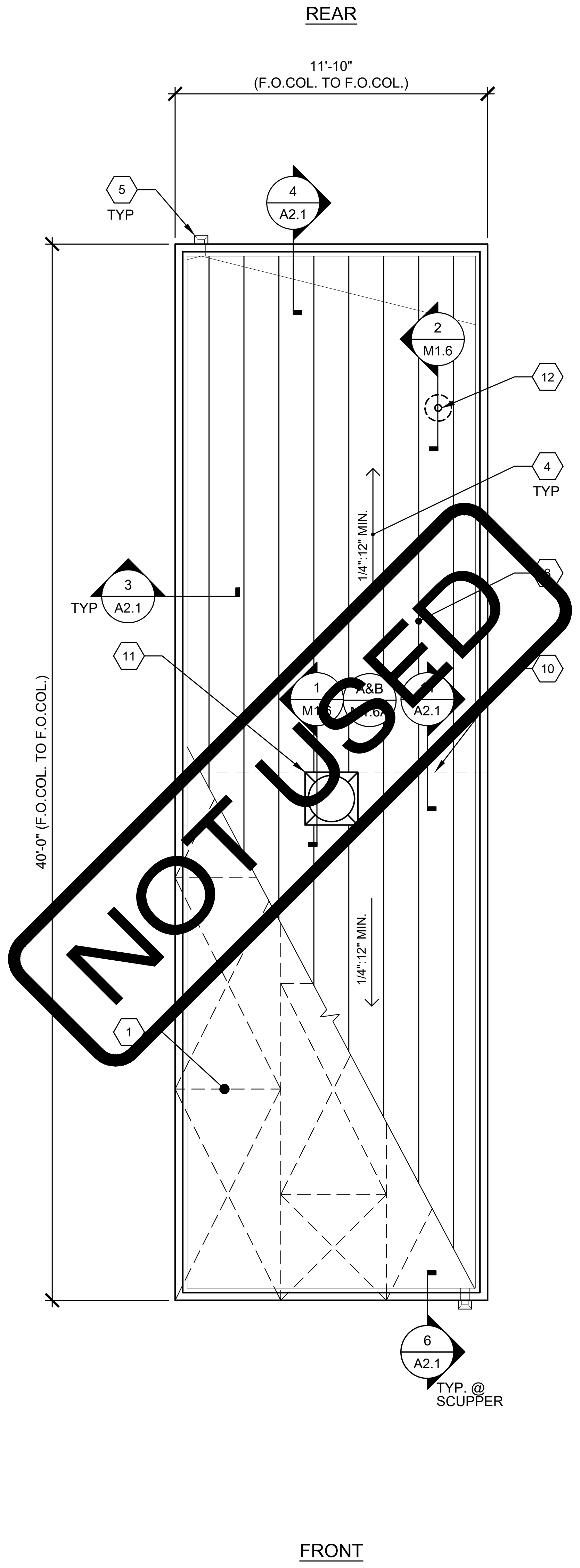
DRAWN BY: AV
SCALE: AS NOTED
DATE: 3/25/2026
PROJECT NO: 2003-26
SHEET TITLE: RESTROOM FLOOR PLAN
SHEET NUMBER: A1.2

02-XXXXXX - 24x40 Gen7 BUILDINGS - SAVED: 3/13/2026 1:34 PM PLOTTED: 3/25/2026 10:57 AM C:\Users\angelina.v\AMS\Engineering Team - Documents\Projects\2000-2099\2003-26 MMM - Alum Rock Stockpile\PRELIMINARY\DWG\12x40 RR10 - 02 - 122042 -STOCKPILE - A1.2 - Floor Plan Restroom Option.dwg



TYPICAL ROOF PLAN ☒

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



ROOF PLAN WITH PARAPETS ☐

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

ROOF DRAIN SCHEDULE

ROOF AREA DRAINS (WITH 7'+7' OVERHANG)			
BUILDING SIZE (NOM.)	ROOF AREA	MINIMUM NO. OF DRAINS	SIZE OF DRAIN
☒ 12'x40'	648	1	2x3

NOTES:

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

NOT USED

NOT USED

3

NOT USED

4

KEY NOTES

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

SHEET NOTES

1. ~~SOLATUBE LOCATIONS SHOWN ON PLAN ARE GENERIC AND ACTUAL LOCATIONS MAY VARY - (4) MAX. PER MOD. FRAMING PER S4.0 & S4.1 INSTALLATION PER DETAILS 1 OR 15/M1.6~~
2. OPTIONAL GUTTERS SHALL BE LOCATED ALONG THE END-WALLS OF THE BUILDING(S):
   - ~~MONO-SLOPE: REAR END WALLS ONLY.~~
   - DUAL-PITCH: BOTH FRONT & REAR END WALLS.
3. ~~EITHER ROOF-SHEATHING OR~~ STRAP CROSS BRACING ~~MAY BE USED~~ FOR ~~MONO-SLOPE OR~~ DUAL PITCH SLOPED BUILDING(S).

SOLAR NOTES

SOLAR ZONE REQUIRED, PER TITLE 24 SECTION 110.10: FOR NON-RESIDENTIAL BUILDINGS, 3 STORIES OR LESS, A MINIMUM OF 15% OF ROOF AREA (EXCLUDING SKYLIGHTS) MUST BE SET ASIDE FOR PHOTO-VOLTAICS (PV). THE ROOF MUST HAVE NO ROOF OBSTRUCTIONS.

1. THE PC ROOF FRAMING HAS BEEN DESIGNED PER THE DESIGN LOADS SPECIFIED ON SHEET TS, WHICH DOES INCLUDE LOADS FROM SOLAR EQUIPMENT THAT MIGHT BE INSTALLED AT A LATER DATE AS LONG AS THE SOLAR PANELS ARE INSTALLED FLAT ON THE ROOF.
2. NOT USED.
3. EQUIPMENT SUCH AS SOLAR MODULES, INVERTERS, AND METERING EQUIPMENT DO NOT NEED TO BE INSTALLED, NOR DOES CONDUIT, PIPING, OR PRE-INSTALLED MOUNTING HARDWARE.
4. A STRUCTURAL ENGINEER SHOULD BE CONSULTED PRIOR TO ANY FUTURE ROOF-TOP SOLAR INSTALLATIONS TO DETERMINE THE ADEQUACY OF THE ROOF FRAMING TO SUSTAIN THE LOADS OF THE INSTALLATION ON THE BUILDING STRUCTURE.
5. A NON-PC DSA APPLICATION NUMBER (SITE SPECIFIC JOB) IS REQUIRED FOR DESIGN & ROOF-TOP INSTALLATION OF SOLAR PANEL SYSTEMS, ITS ANCHORAGE & SUPPORT STRUCTURE ABOVE THE ROOF FRAMING. ROOF-TOP SOLAR SYSTEM SUBMITTALS SHALL NOT BE SUBMITTED AS AN OVER-THE-COUNTER SUBMITTAL.

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DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
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DATE: 04/08/26

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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

.
.
.

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APP: 04-122042 PC
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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/15/2024

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MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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REVISIONS

1
2
3
4

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

SHEET TITLE:

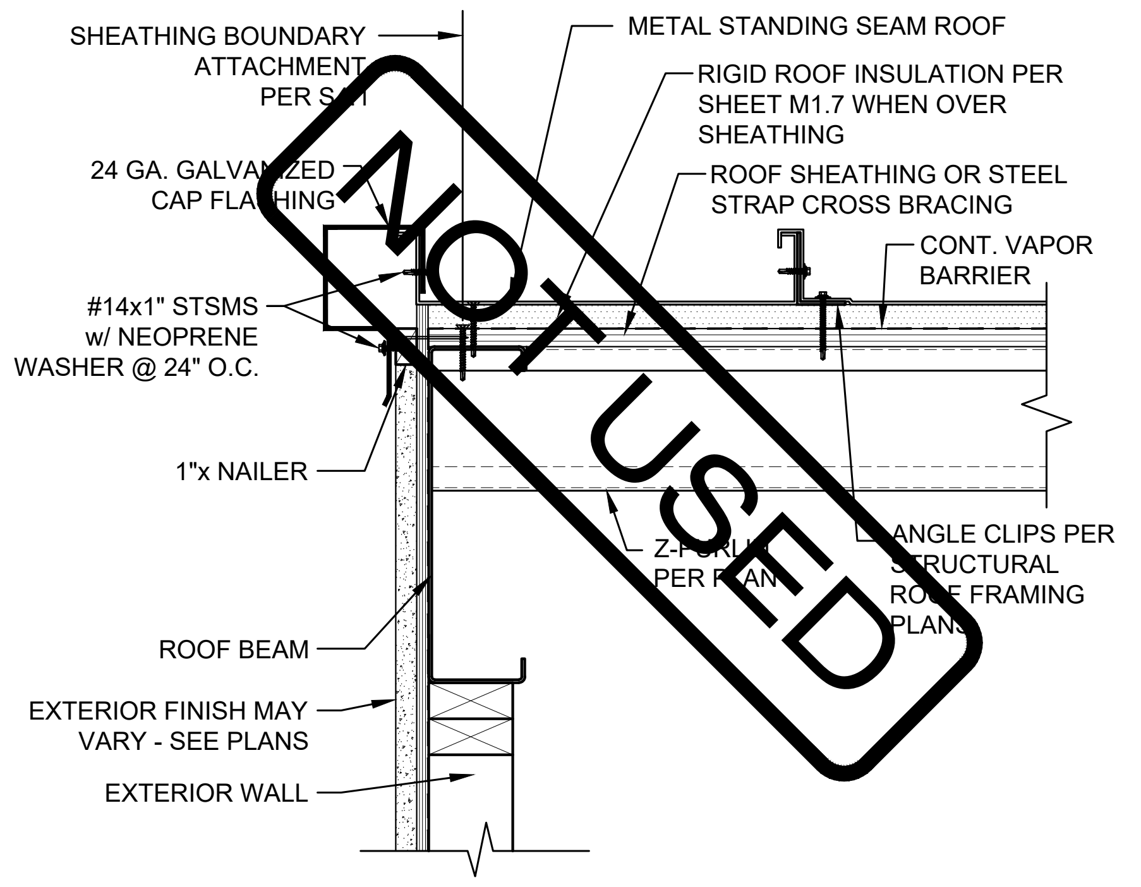
TYPICAL ROOF PLAN
METAL STANDING SEAM

SHEET NUMBER:

A2.0

1. REFER TO BUILDING SECTIONS IN SHEET A7.3 FOR BUILDING ENVELOPE
2. REFER TO MINIMUM INSULATION SCHEDULES ON SHEET M1.7 FOR ALL INSULATION REQUIREMENTS. THIS DETAILS ARE FOR WOOD STUDS ONLY.

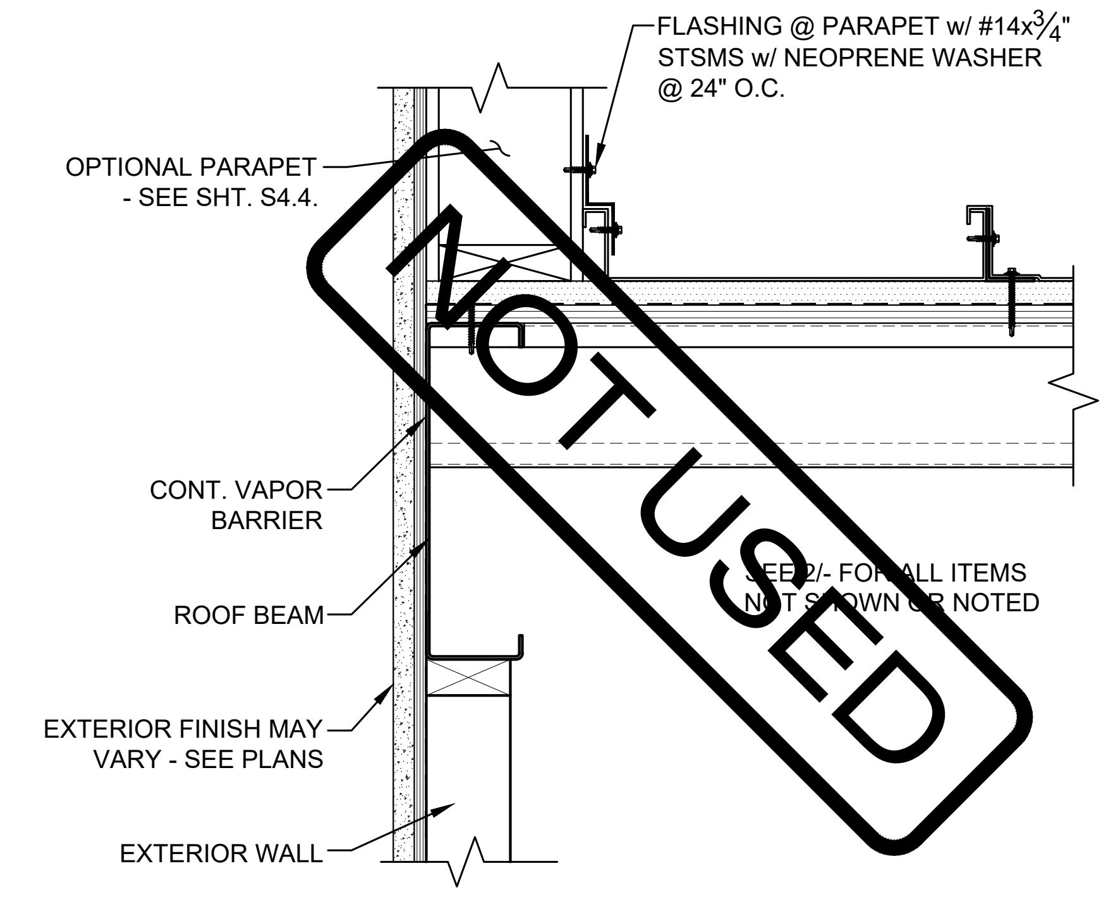
NOTES 1


NOT USED
SHEATHING BOUNDARY ATTACHMENT PER S
METAL STANDING SEAM ROOF
RIGID ROOF INSULATION PER SHEET M1.7 WHEN OVER SHEATHING
24 GA. GALVANIZED CAP FLASHING
ROOF SHEATHING OR STEEL STRAP CROSS BRACING
CONT. VAPOR BARRIER
#14x1" STSMS w/ NEOPRENE WASHER @ 24" O.C.
1"x NAILER
Z-PURLIN PER PLAN
ANGLE CLIPS PER STRUCTURAL ROOF FRAMING PLANS
ROOF BEAM
EXTERIOR FINISH MAY VARY - SEE PLANS
EXTERIOR WALL

SEE 3 & 4/- FOR PARAPET OPTION.
SEE SHEETS A5.2, A5.4, & A5.6 FOR EXTERIOR FINISHES.

METAL ROOF w/ DECKING 2

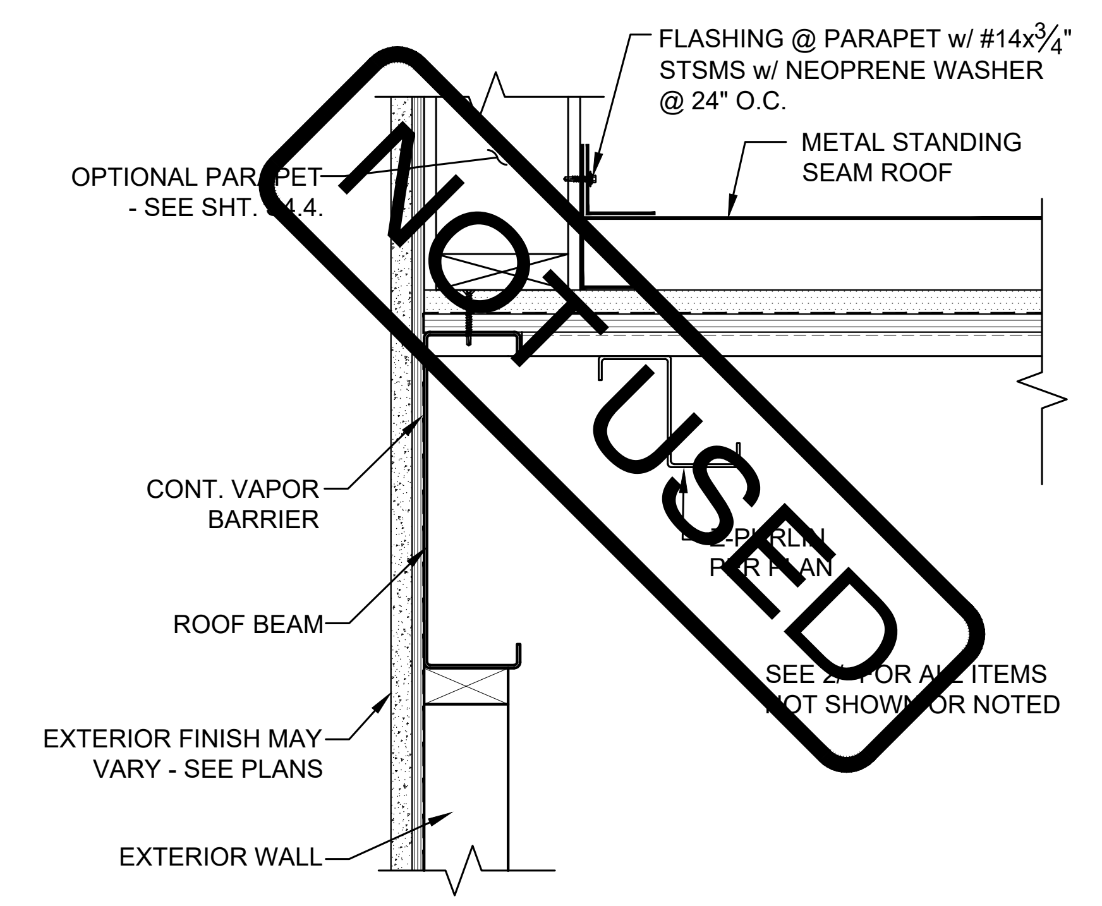
SCALE : 1 1/2"=1'-0"


NOT USED
FLASHING @ PARAPET w/ #14x3/4" STSMS w/ NEOPRENE WASHER @ 24" O.C.
OPTIONAL PARAPET - SEE SHT. S4.4.
CONT. VAPOR BARRIER
ROOF BEAM
SEE 2/- FOR ALL ITEMS NOT SHOWN OR NOTED
EXTERIOR FINISH MAY VARY - SEE PLANS
EXTERIOR WALL

SEE 6/- FOR SCUPPER AT PARAPET.
SEE SHEETS A5.2, A5.4, & A5.6 FOR EXTERIOR FINISHES.

☐ OPTIONAL PARAPET @ METAL ROOF SIDE 3

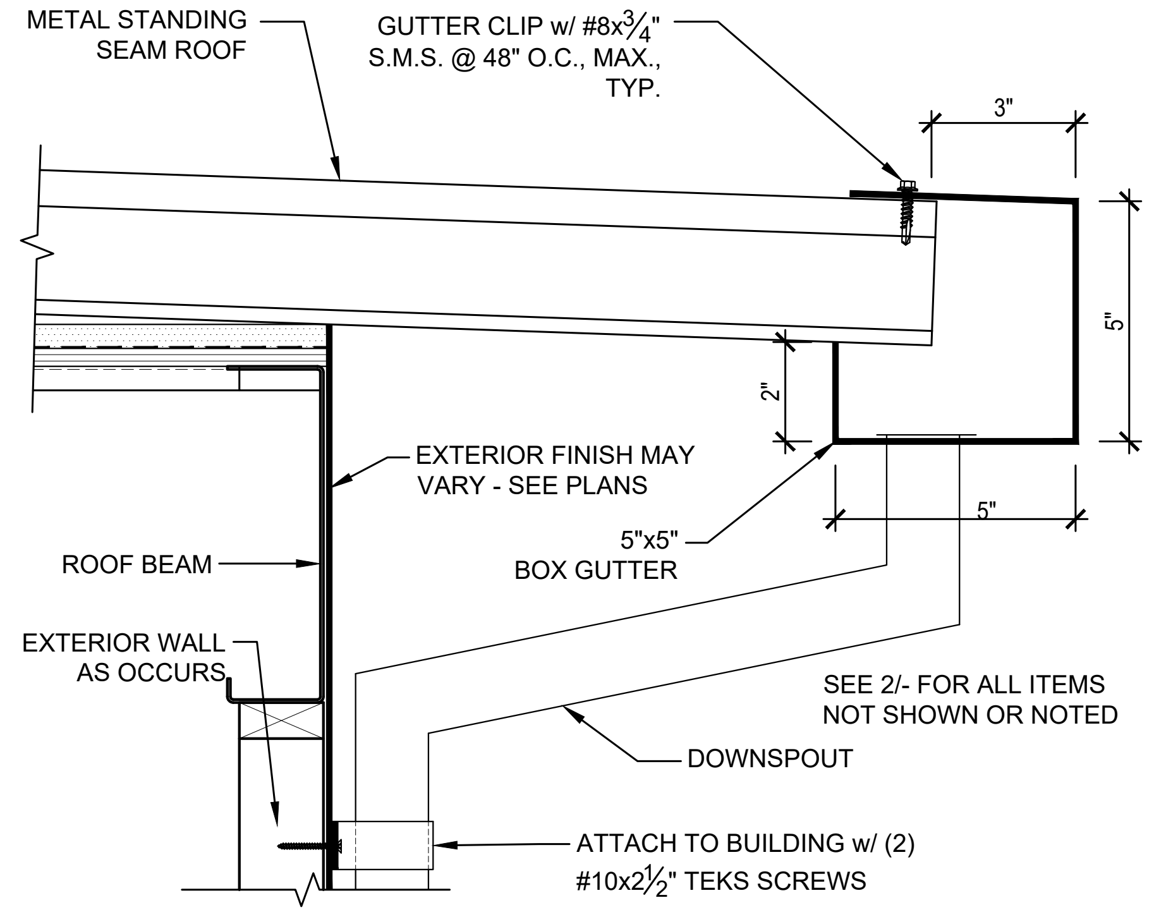
SCALE : 1 1/2"=1'-0"


NOT USED
FLASHING @ PARAPET w/ #14x3/4" STSMS w/ NEOPRENE WASHER @ 24" O.C.
METAL STANDING SEAM ROOF
OPTIONAL PARAPET - SEE SHT. S4.4.
CONT. VAPOR BARRIER
Z-PURLIN PER PLAN
ROOF BEAM
SEE 2/- FOR ALL ITEMS NOT SHOWN OR NOTED
EXTERIOR FINISH MAY VARY - SEE PLANS
EXTERIOR WALL

SEE 6/- FOR SCUPPER AT PARAPET.
SEE SHEETS A5.2, A5.4, & A5.6 FOR EXTERIOR FINISHES.

☐ OPTIONAL PARAPET @ METAL ROOF END 4

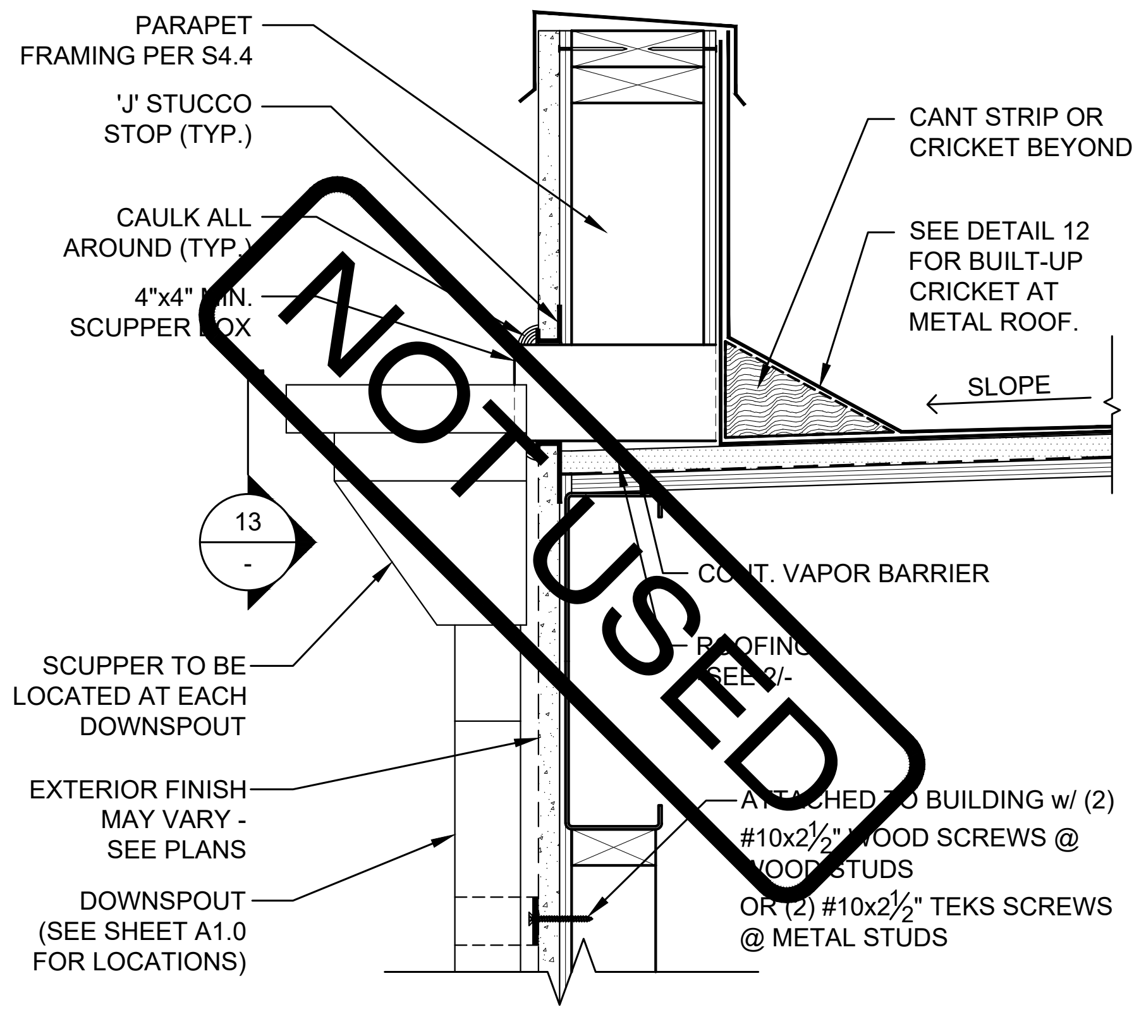
SCALE : 1 1/2"=1'-0"


METAL STANDING SEAM ROOF
GUTTER CLIP w/ #8x3/4" S.M.S. @ 48" O.C., MAX., TYP.
3"
5"
2"
5"
EXTERIOR FINISH MAY VARY - SEE PLANS
5"x5" BOX GUTTER
ROOF BEAM
EXTERIOR WALL AS OCCURS
SEE 2/- FOR ALL ITEMS NOT SHOWN OR NOTED
DOWNSPOUT
ATTACH TO BUILDING w/ (2) #10x2½" TEKS SCREWS

~~SEE DETAIL 8/- WITHOUT OVERHANG, GUTTER, & DOWNSPOUT OPTION.~~
~~SEE DETAIL 10/- WITH OVERHANG OPTION ONLY.~~
~~SEE SHEET S4.1 FOR SOFFIT NOT SHOWN.~~

TYP. GUTTER ATTACHMENT 5

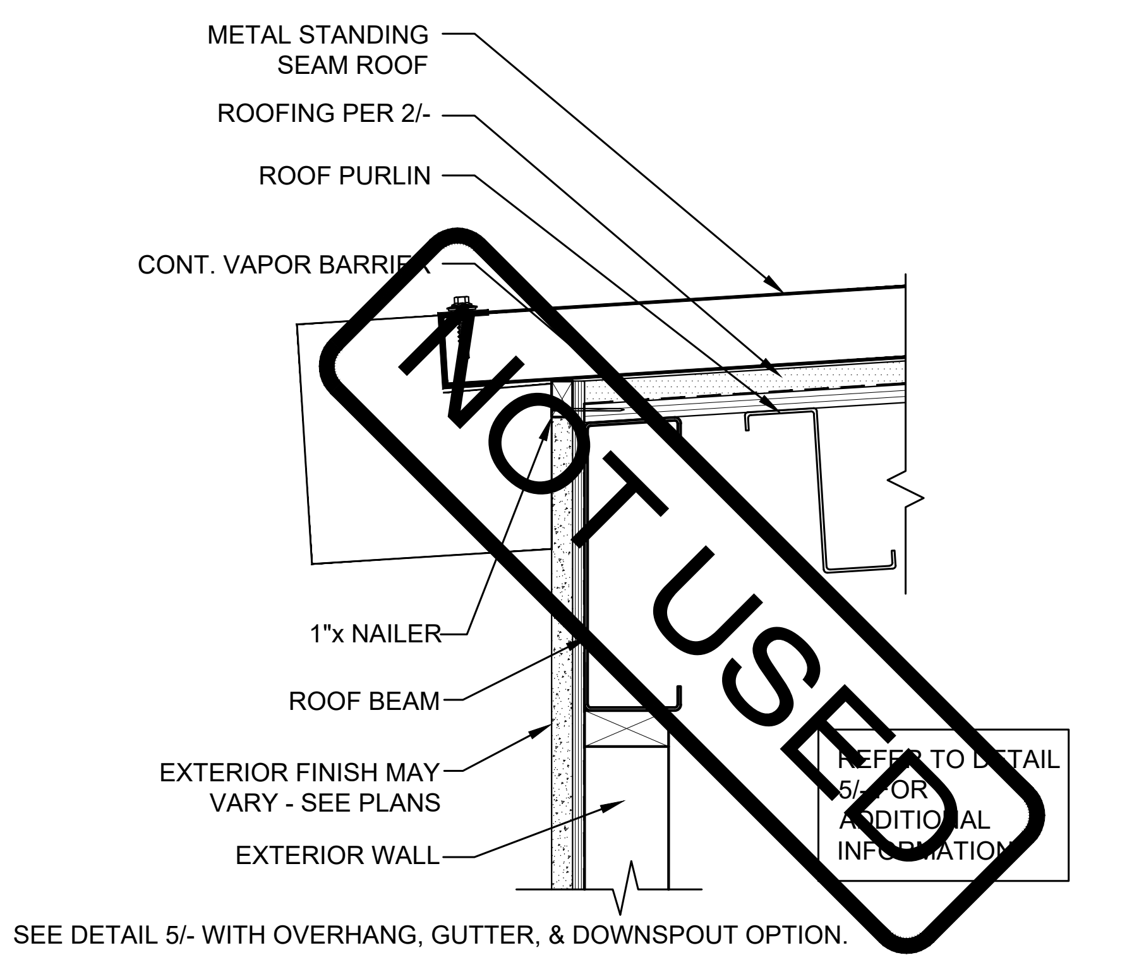
SCALE : 1 1/2"=1'-0"


NOT USED
PARAPET FRAMING PER S4.4
'J' STUCCO STOP (TYP.)
CANT STRIP OR CRICKET BEYOND
CAULK ALL AROUND (TYP.)
SEE DETAIL 12 FOR BUILT-UP CRICKET AT METAL ROOF.
4"x4" MIN. SCUPPER BOX
SLOPE
13
-
CONT. VAPOR BARRIER
ROOFING SEE 2/-
SCUPPER TO BE LOCATED AT EACH DOWNSPOUT
EXTERIOR FINISH MAY VARY - SEE PLANS
ATTACHED TO BUILDING w/ (2) #10x2½" WOOD SCREWS @ WOOD STUDS OR (2) #10x2½" TEKS SCREWS @ METAL STUDS
DOWNSPOUT (SEE SHEET A1.0 FOR LOCATIONS)

TYP. SCUPPER DETAIL 6

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

NOT USED 7

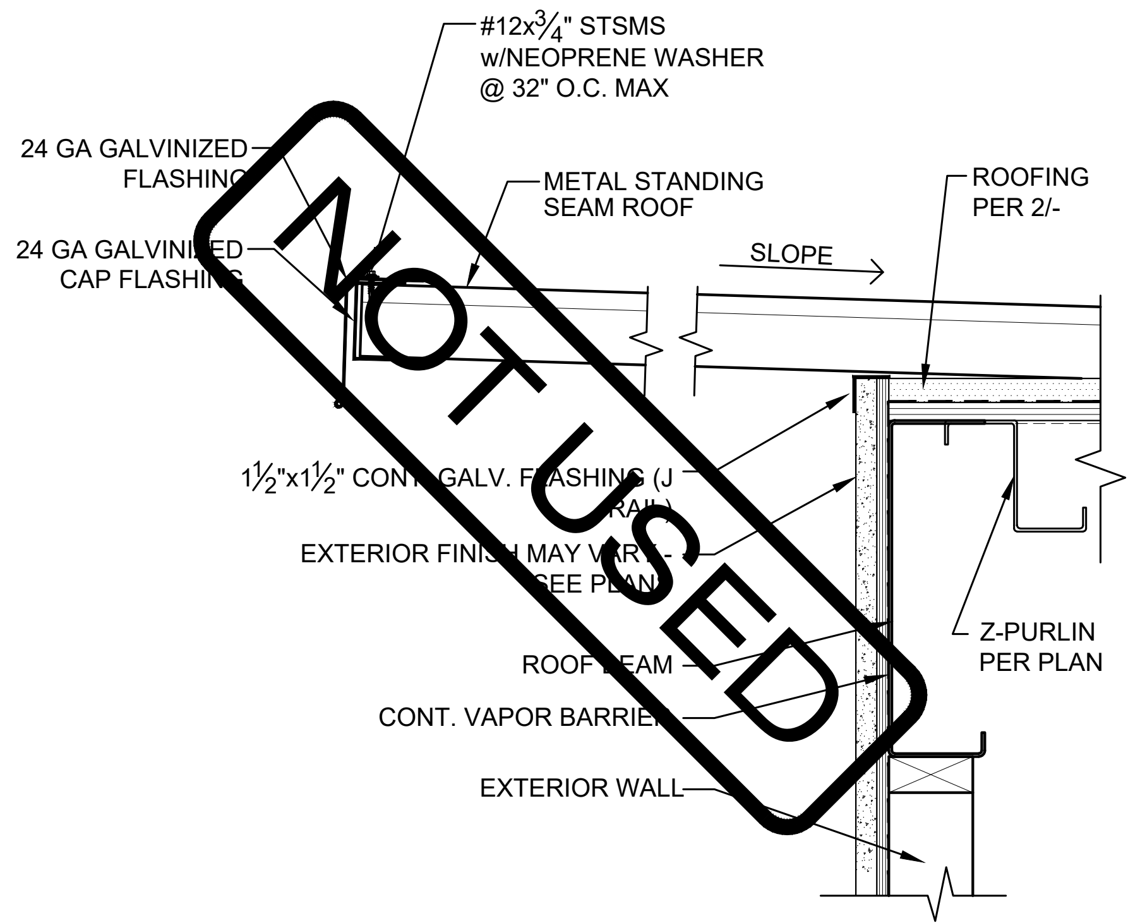


SEE DETAIL 5/- WITH OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE DETAIL 10/- WITH OVERHANG OPTION ONLY.
SEE SHEET S4.1 FOR SOFFIT NOT SHOWN.

METAL ROOF @ END WALLS (w/o OVERHANGS) 8

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

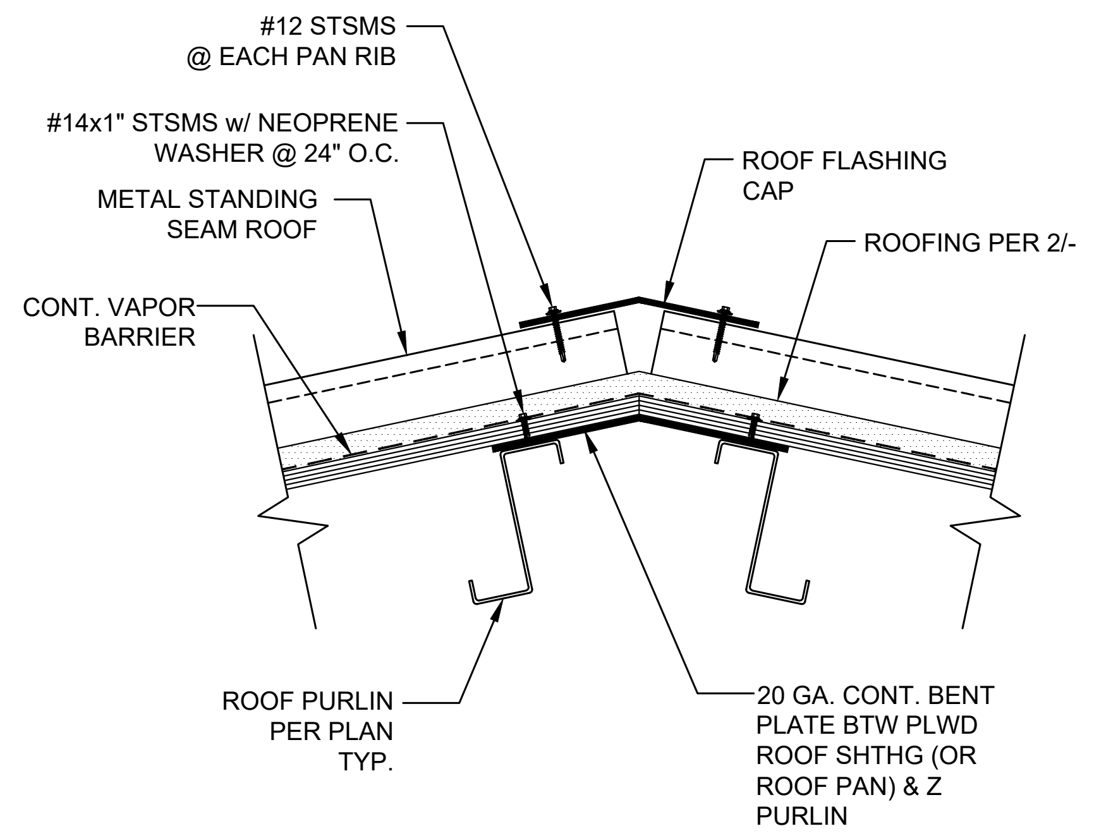
NOT USED 9


NOT USED
#12x3/4" STSMS w/NEOPRENE WASHER @ 32" O.C. MAX
24 GA GALVINIZED FLASHING
METAL STANDING SEAM ROOF
ROOFING PER 2/-
24 GA GALVINIZED CAP FLASHING
SLOPE
1½"x1½" CONT. GALV. FLASHING (J RAIL)
EXTERIOR FINISH MAY VARY - SEE PLANS
Z-PURLIN PER PLAN
ROOF BEAM
CONT. VAPOR BARRIER
EXTERIOR WALL

SEE DETAIL 5/- WITH OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE DETAIL 8/- WITHOUT OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE SHEET S4.1 FOR SOFFIT NOT SHOWN.

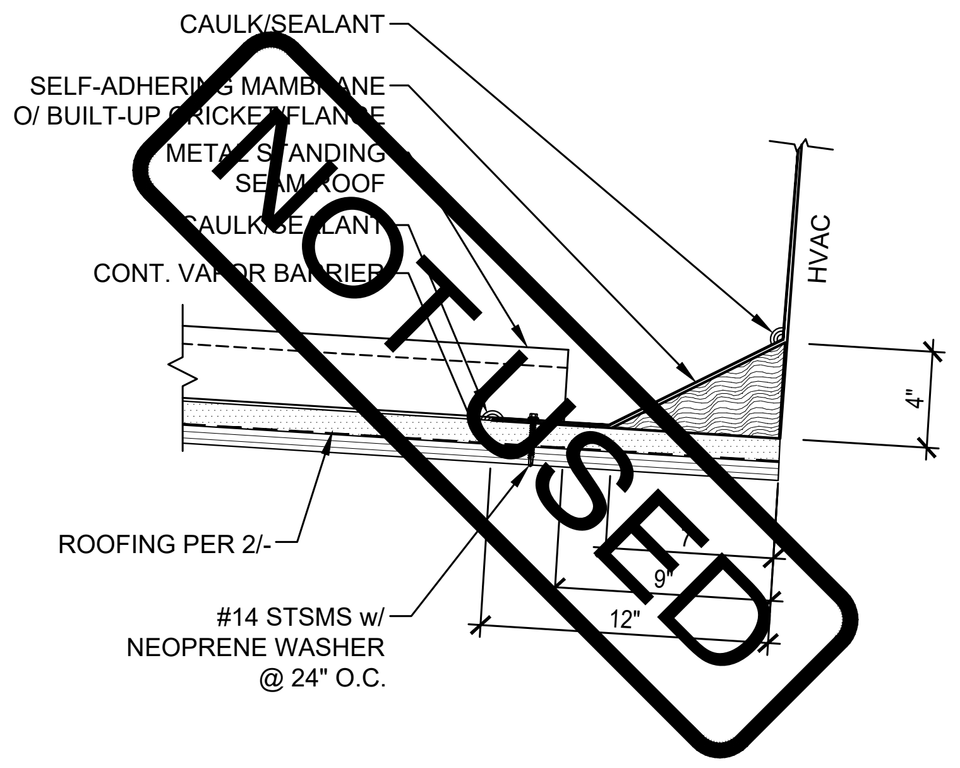
METAL ROOF EDGE @ OVERHANG 10

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


#12 STSMS @ EACH PAN RIB
#14x1" STSMS w/ NEOPRENE WASHER @ 24" O.C.
ROOF FLASHING CAP
METAL STANDING SEAM ROOF
ROOFING PER 2/-
CONT. VAPOR BARRIER
ROOF PURLIN PER PLAN TYP.
20 GA. CONT. BENT PLATE BTW PLWD ROOF SHTHG (OR ROOF PAN) & Z PURLIN

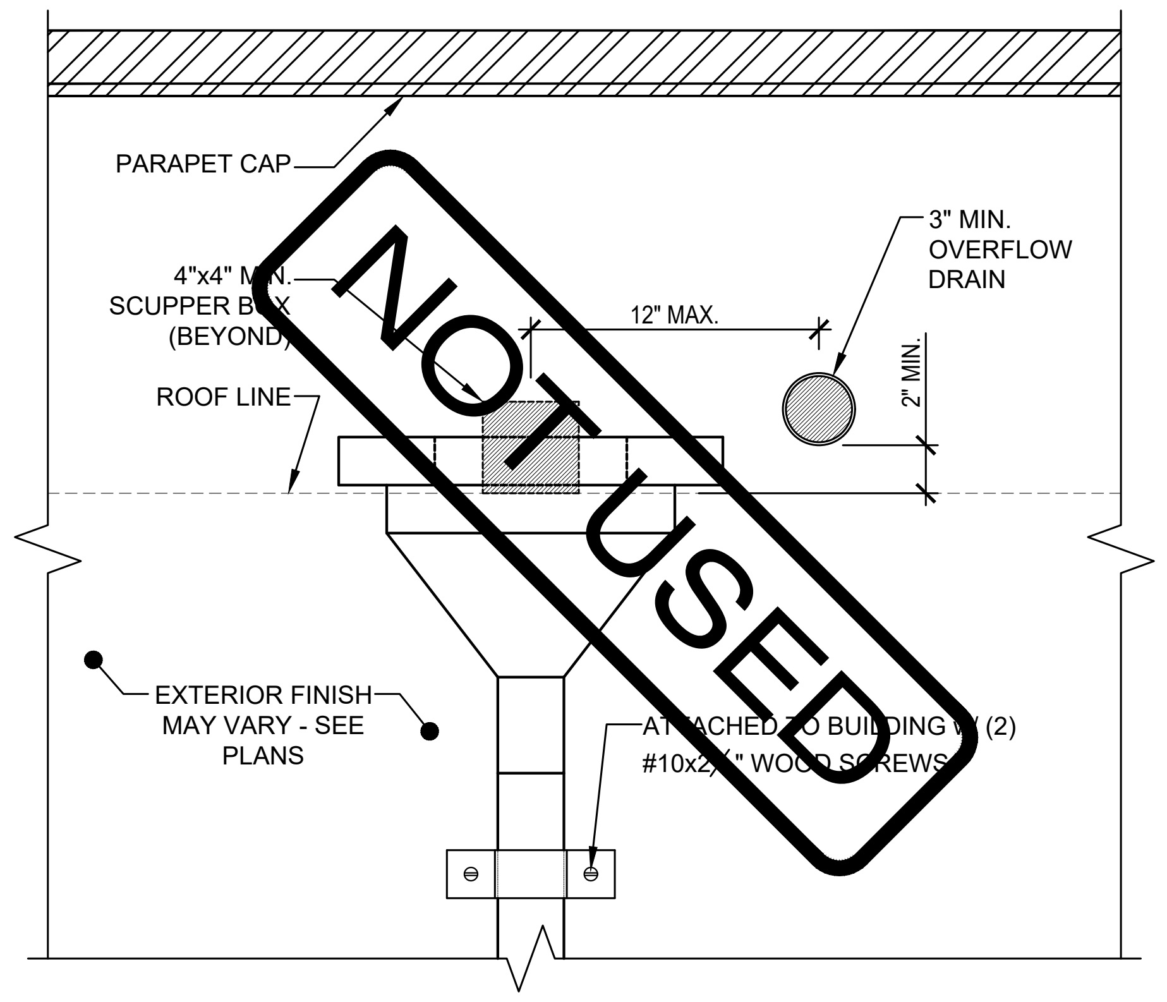
☒ OPTIONAL METAL DUAL SLOPED 11

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



BUILT-UP CRICKET AT METAL ROOF 12

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


NOT USED
PARAPET CAP
3" MIN. OVERFLOW DRAIN
4"x4" MIN. SCUPPER BOX (BEYOND)
12" MAX.
2" MIN.
ROOF LINE
EXTERIOR FINISH MAY VARY - SEE PLANS
ATTACHED TO BUILDING w/ (2) #10x2½" WOOD SCREWS

TYP. SCUPPER w/ OVERFLOW DRAIN 13

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

NOT USED 14

NOT USED 15

NOT USED 16

NOT USED 17

NOT USED 18

NOT USED 19

NOT USED 20

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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

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DATE: 02/15/2024

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RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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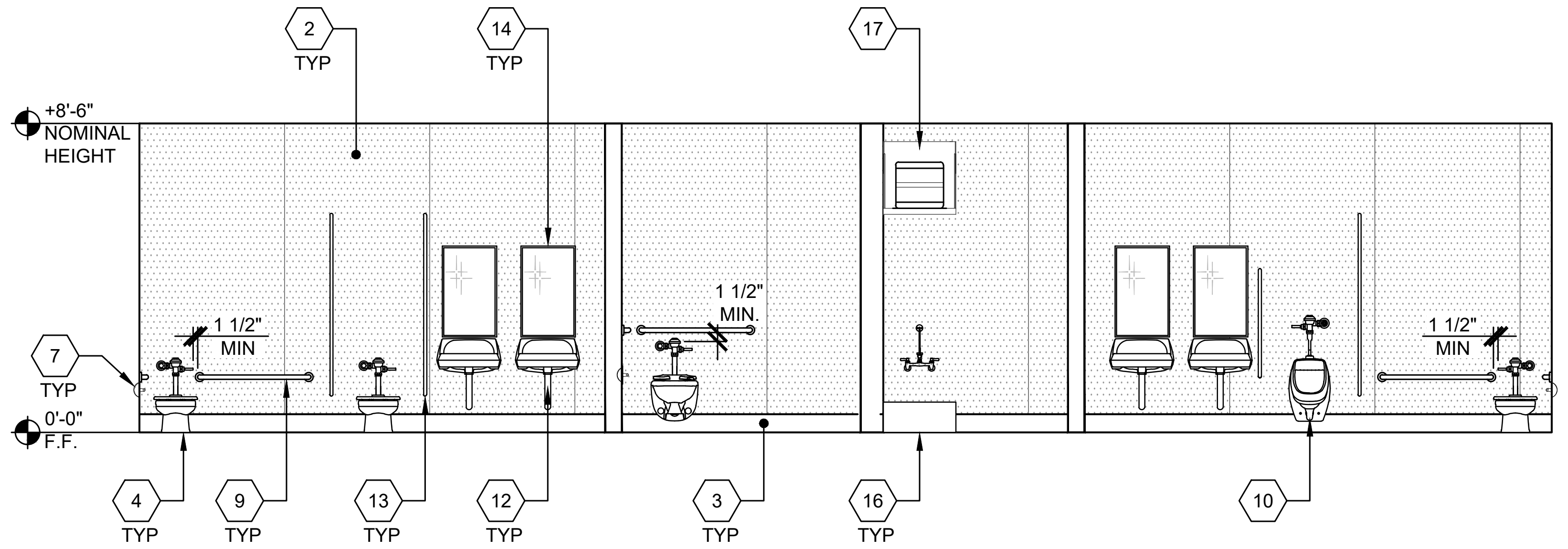
DRAWN BY:
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-XX

SHEET TITLE:

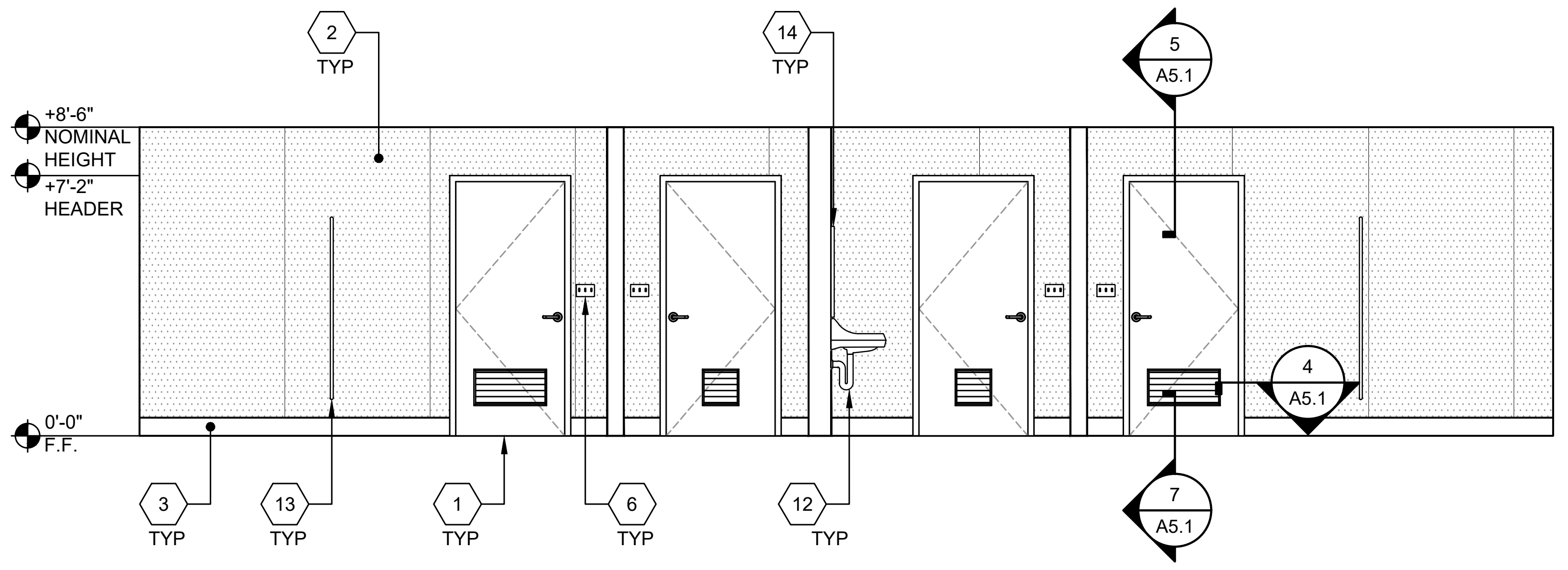
TYPICAL ROOF DETAILS
METAL STANDING SEAM
ROOFING

SHEET NUMBER:

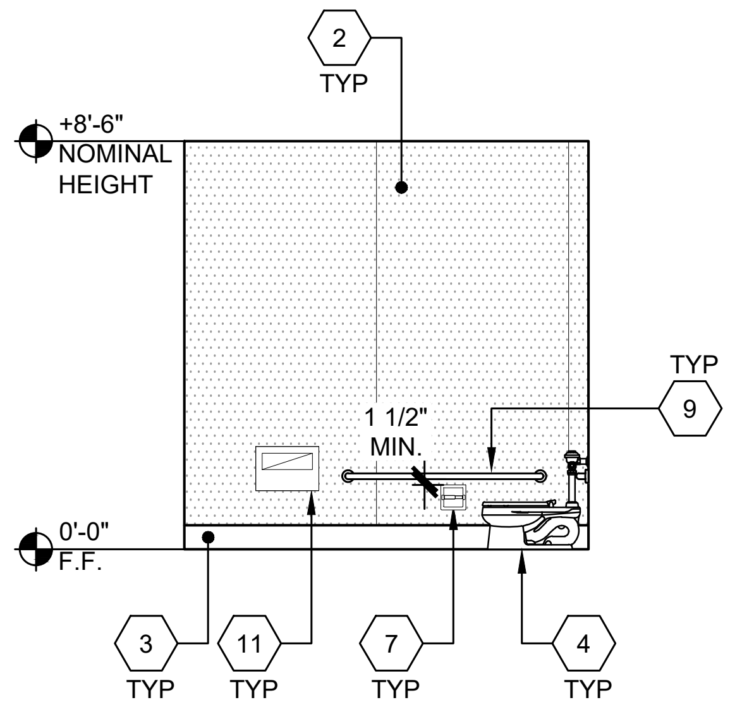
A2.1



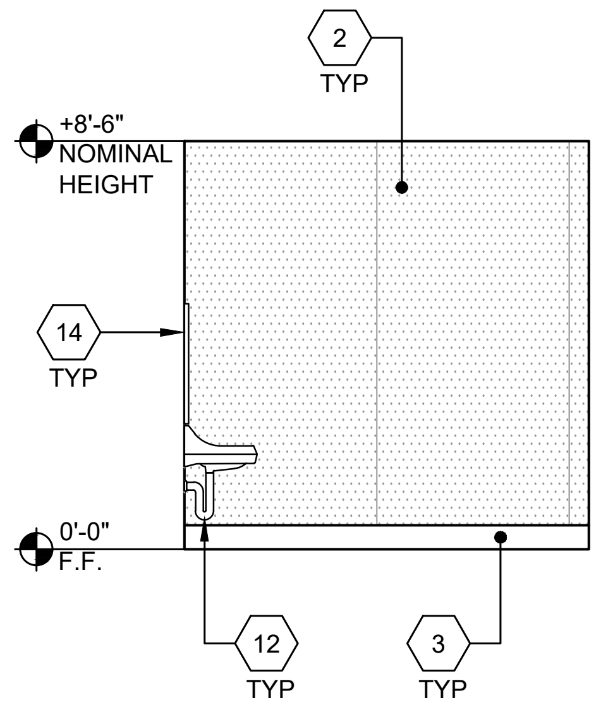
RESTROOM SIDEWALL ELEVATION - GIRLS/STAFF/JANITOR/BOYS
AGE RANGE: 13-ADULT & 3-4
SCALE: 1/4"=1'-0"
1



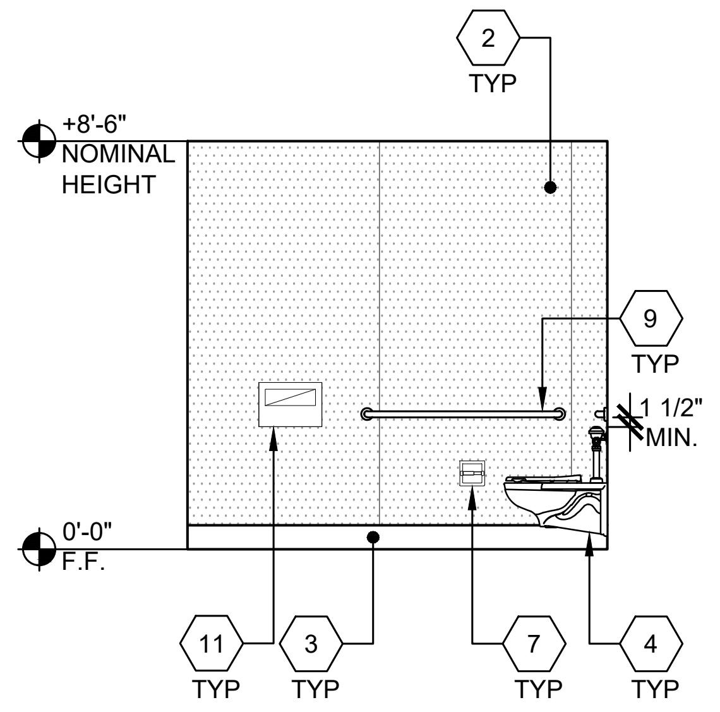
RESTROOM SIDEWALL ELEVATION - GIRLS/STAFF/JANITOR/BOYS
AGE RANGE: 13-ADULT & 3-4
SCALE: 1/4"=1'-0"
2



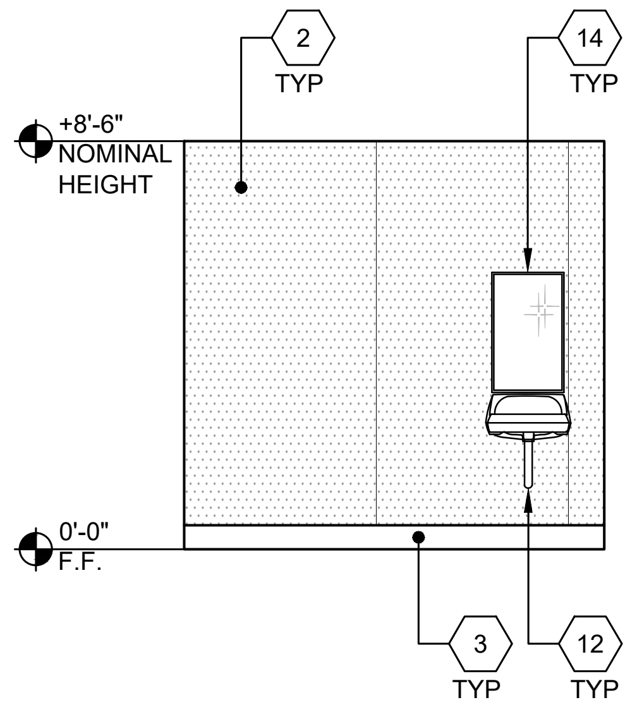
AGE RANGE: 3-4
SCALE: 1/4"=1'-0"
RESTROOM ELEVATION - BOYS/GIRLS
3



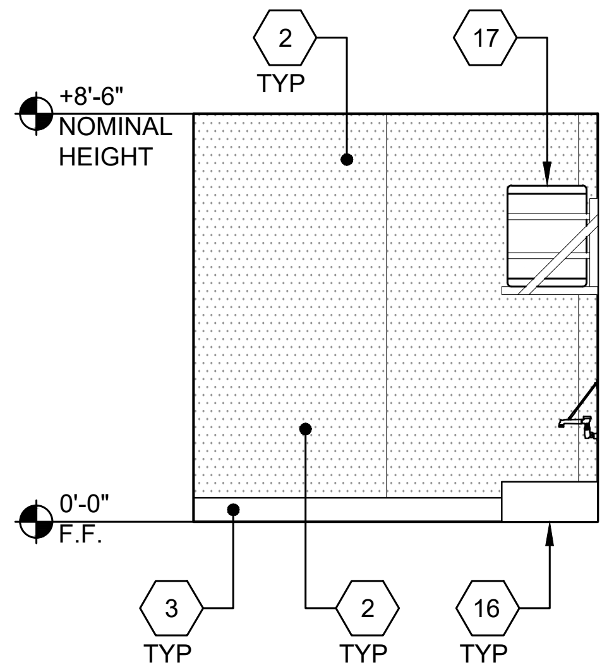
AGE RANGE: 3-4
SCALE: 1/4"=1'-0"
RESTROOM ELEVATION - BOYS/GIRLS
4



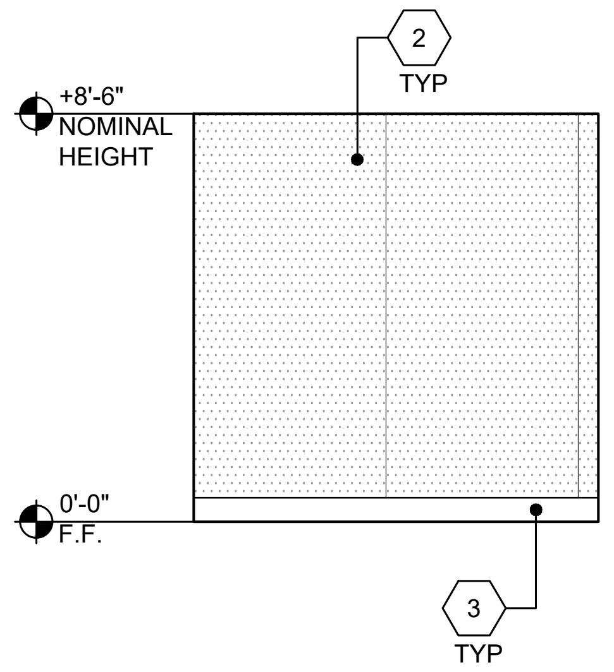
RESTROOM ELEVATION - STAFF
AGE RANGE: 13-ADULT
SCALE: 1/4"=1'-0"
5



RESTROOM ELEVATION - STAFF
AGE RANGE: 13-ADULT
SCALE: 1/4"=1'-0"
6



SCALE: 1/4"=1'-0"
RESTROOM ELEVATIONS - JANITOR
7



SCALE: 1/4"=1'-0"
RESTROOM ELEVATIONS - JANITOR
8

NOT USED 9

NOT USED 10

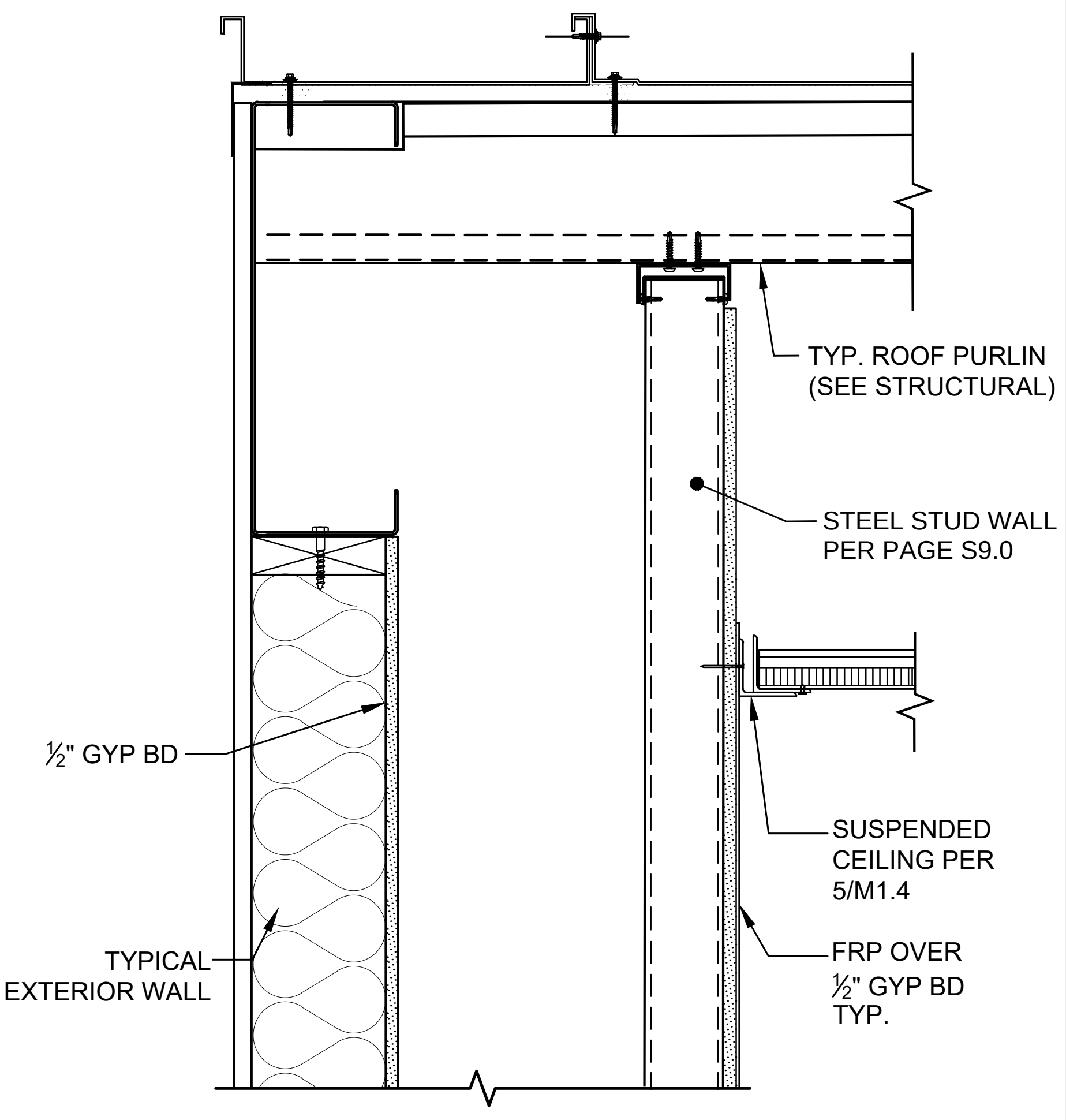
NOT USED 11

1	TYPICAL DOOR
2	F.R.P. (FIBER REINFORCED PLASTIC) - SHALL BE CLASS C RATED (ASTM E-84) EMBOSSED & SMOOTH INTERIOR WALL PANELS. NOMINAL PANELS. NOMINAL PANEL THICKNESS SHALL BE ± 0.090 - PANEL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
3	6" SELF COVE BASE - REFER TO DETAIL 5/A1.2
4	ACCESSIBLE TOILET - SEE DETAIL 14/P2.0
5	NOT USED
6	LIGHT SWITCH - SEE ELECTRICAL SHEETS
7	TOILET PAPER DISPENSER PER P1.0
8	TYP. GFCI OUTLET - SEE ELECTRICAL SHEETS
9	GRAB BAR - SEE DETAIL 6/A7.1
10	ACCESSIBLE URINAL - SEE DETAIL 15/P2.0
11	TOILET SEAT COVER DISPENSER (BY OTHERS) PER P1.0
12	ACCESSIBLE LAVATORY - SEE DETAIL 17/P2.0
13	TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP., OR EQUIVALENT, w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE DEVELOPMENT RATING: 450. (BY OTHERS)
14	TYP. MIRROR (19# MAX. WEIGHT) - SEE DETAIL 17/P2.0
15	NOT USED
16	CUSTODIAN SINK - SEE P1.0
17	WATER HEATER - REFER TO P1.0 & 1 & 3/P2.0 FOR DETAILS

NOTES:

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

KEYNOTES



PLUMBING CHASE SECTION
12

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DATE: 04/08/26

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PRE-CHECKED SET NAME
12'x40' STANDARD MODULAR BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(1) 12'x40' RESTROOM

MANUFACTURER PROFESSIONAL OF RECORD
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-27

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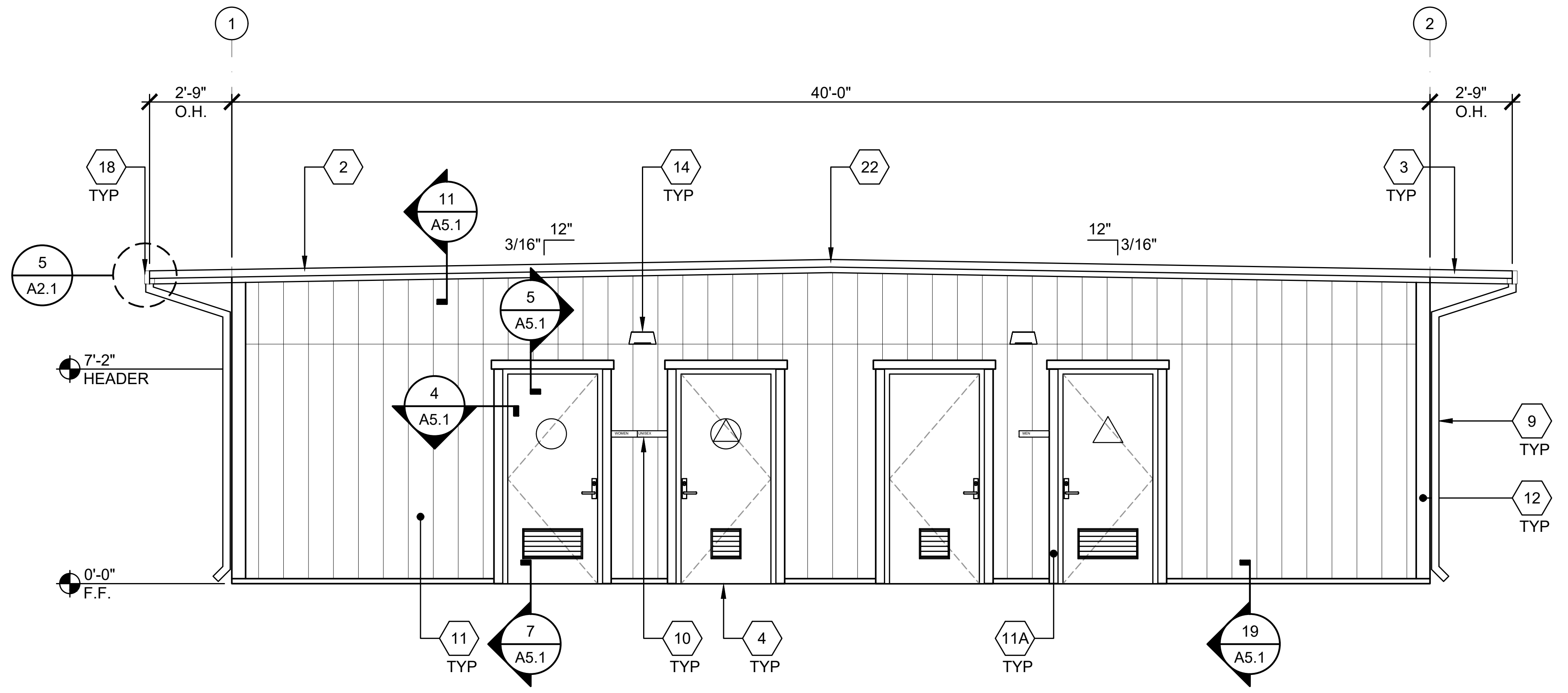
DRAWN BY:	AV
SCALE:	AS NOTED
DATE:	3/25/2026
PROJECT NO:	2003-26

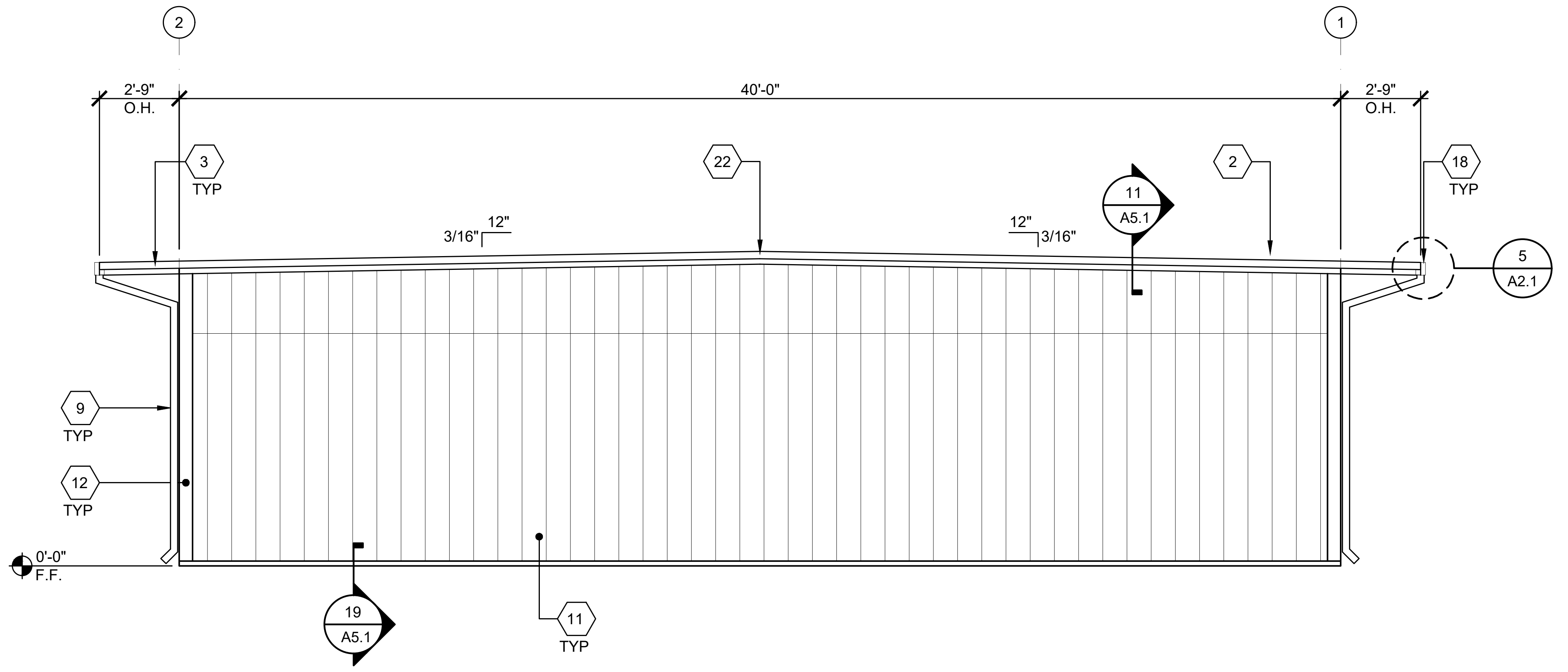
SHEET TITLE:
INTERIOR ELEVATIONS
RESTROOM

SHEET NUMBER:
A4.1



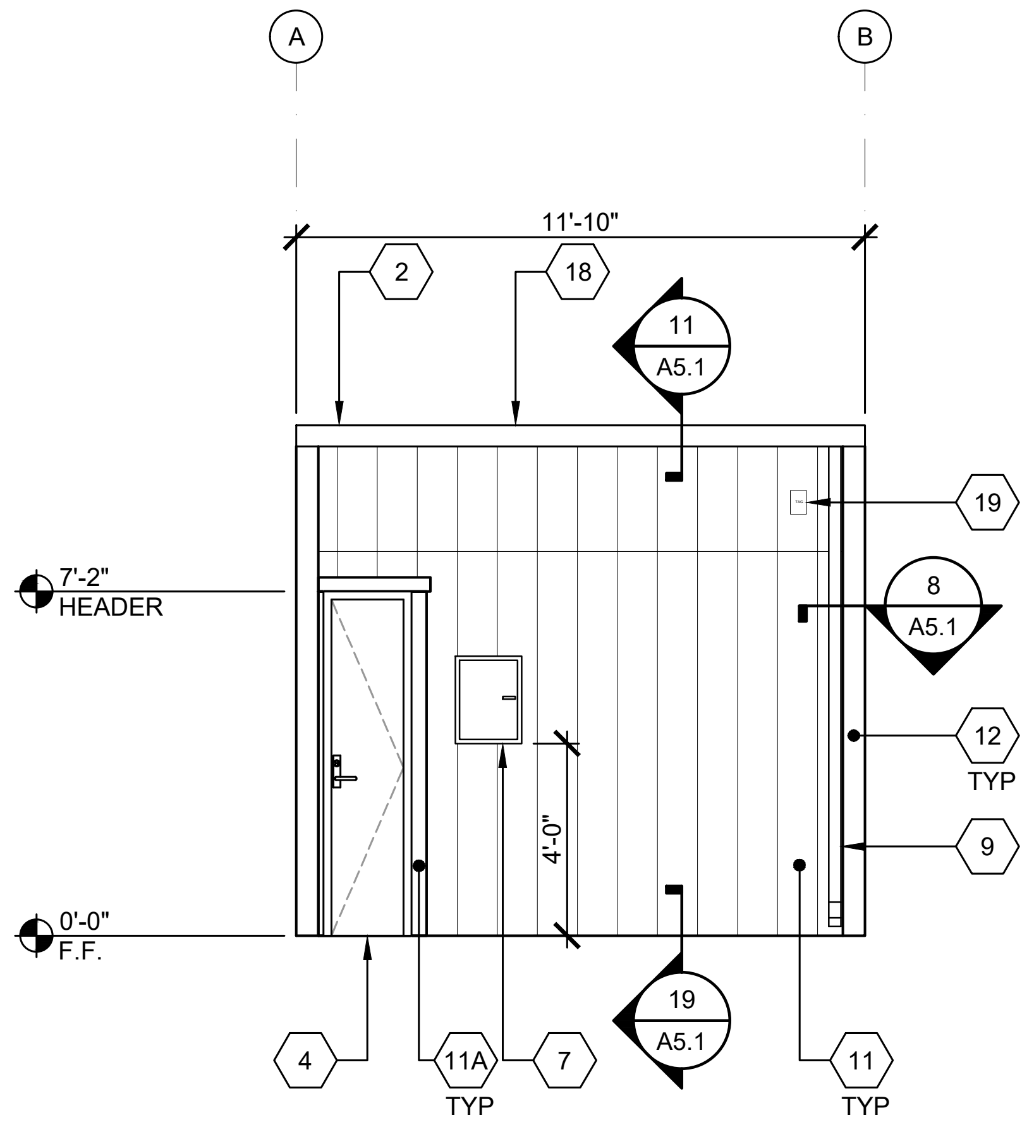
FRONT SIDEWALL EXTERIOR ELEVATION - GIRLS/STAFF/JANITOR/BOYS

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



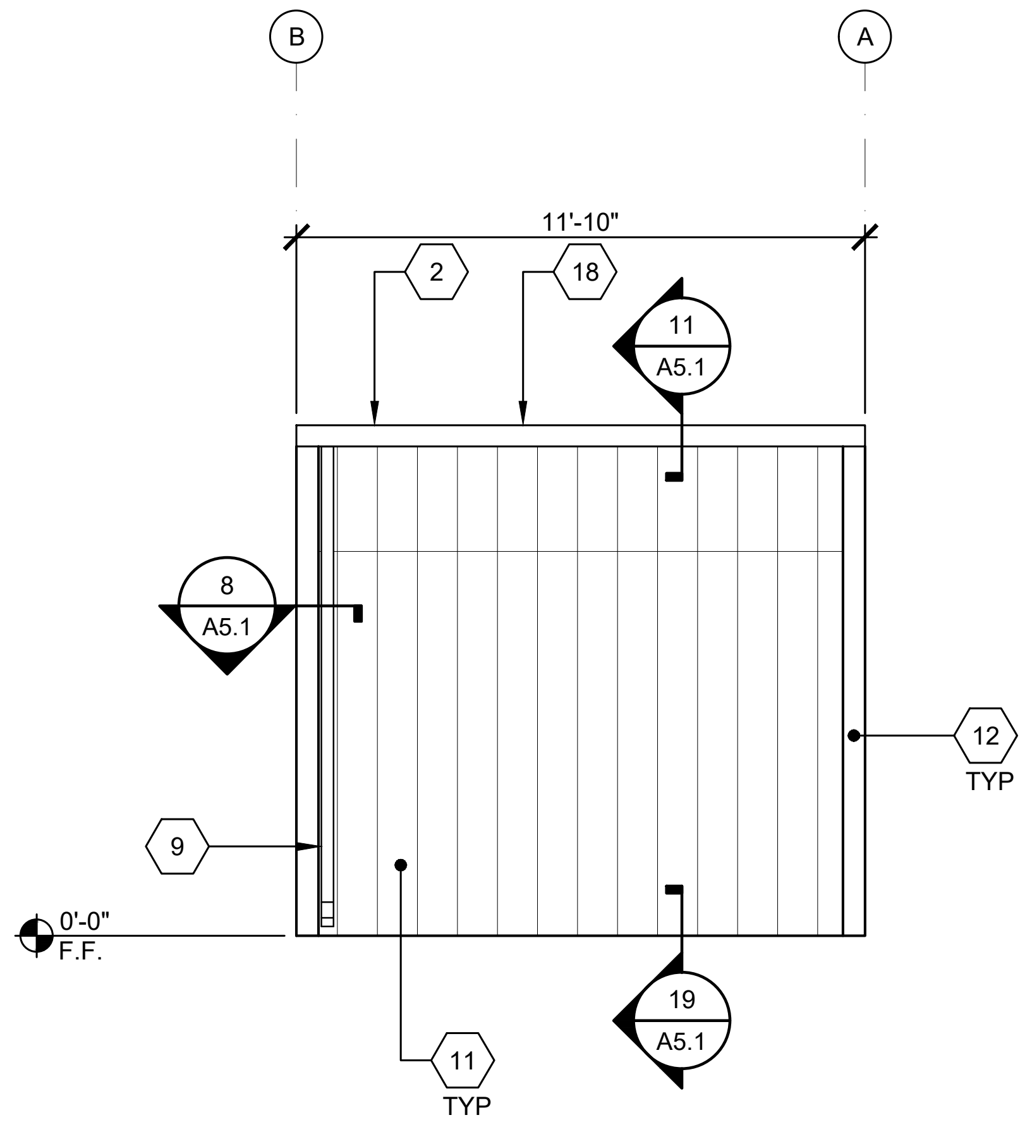
REAR SIDEWALL EXTERIOR ELEVATION - GIRLS/STAFF/JANITOR/BOYS

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



ENDWALL EXTERIOR ELEVATION - GIRLS/STAFF/JANITOR/BOYS

SCALE : 1/4"=1'-0" 3



ENDWALL EXTERIOR ELEVATION - GIRLS/STAFF/JANITOR/BOYS

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

1	NOT USED
2	STANDING SEAM METAL ROOFING
3	OVERHANG - (SEE STRUCTURAL)
4	TYP. EXTERIOR DOOR - (SEE SCHEDULE)
5	NOT USED
6	NOT USED
7	ELECTRICAL PANEL
8	NOT USED
9	DOWNSPOUT SEE DETAIL 8/A5.1 FOR ATTACHMENT
10	ROOM ID AND ISA SIGNAGE (BY OTHER) SEE DETAILS 1-9/N4.0 - TYP.
11	5/8" PLYWOOD SHEATHING FINISH
11A	1x4 TRIM
12	22 GA. CORNER FLASHING
13	NOT USED
14	EXTERIOR LIGHT - (SEE ELECTRICAL)
15	NOT USED
16	NOT USED
17	NOT USED
18	GUTTER - SEE SHEET 5/A2.1
19	MODULAR IDENTIFICATION TAG +90" ABOVE A.F.F.
20	NOT USED
21	NOT USED
22	DUAL SLOPE

KEYNOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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PRE-CHECKED SET NAME
12'x40' STANDARD MODULAR
BUILDING

FORM

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(1) 12'x40' RESTROOM

MANUFACTURER PROFESSIONAL OF RECORD
No. C12631
Ren. 3-31-27

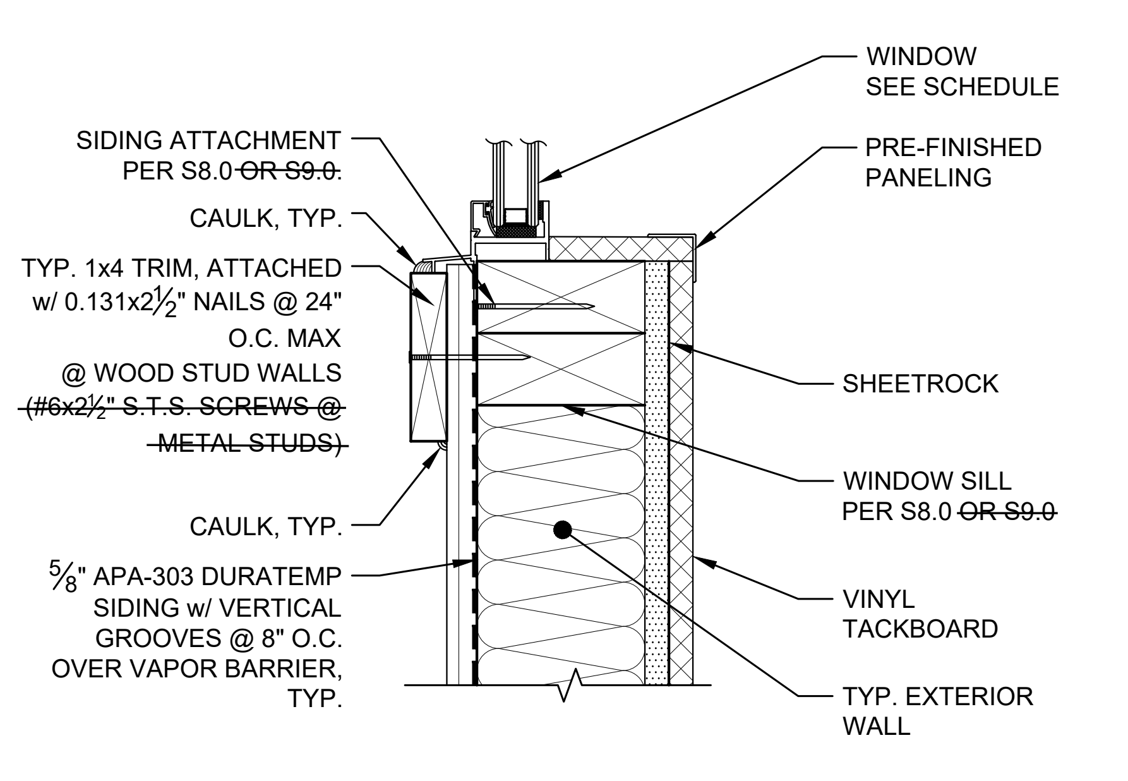
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION
UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS
1
2
3
4

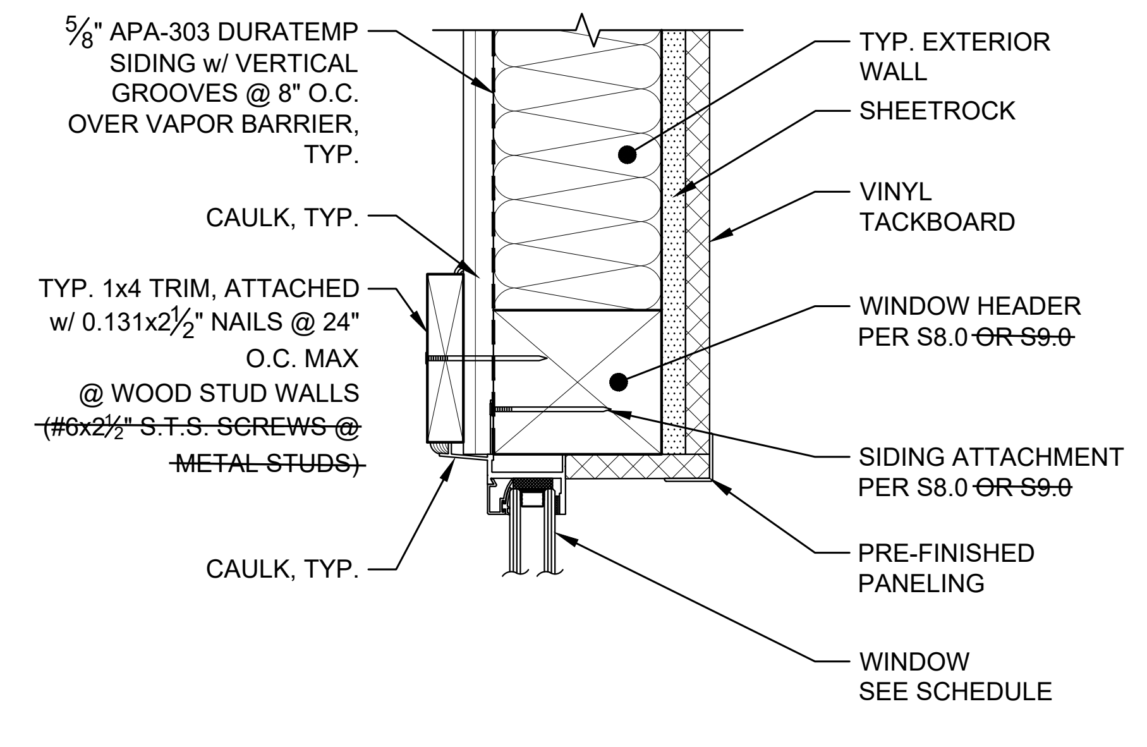
DRAWN BY: AV
SCALE: AS NOTED
DATE: 3/6/2026
PROJECT NO: 2003-26

SHEET TITLE:
EXTERIOR ELEVATIONS
- DURATEMP
OPTION

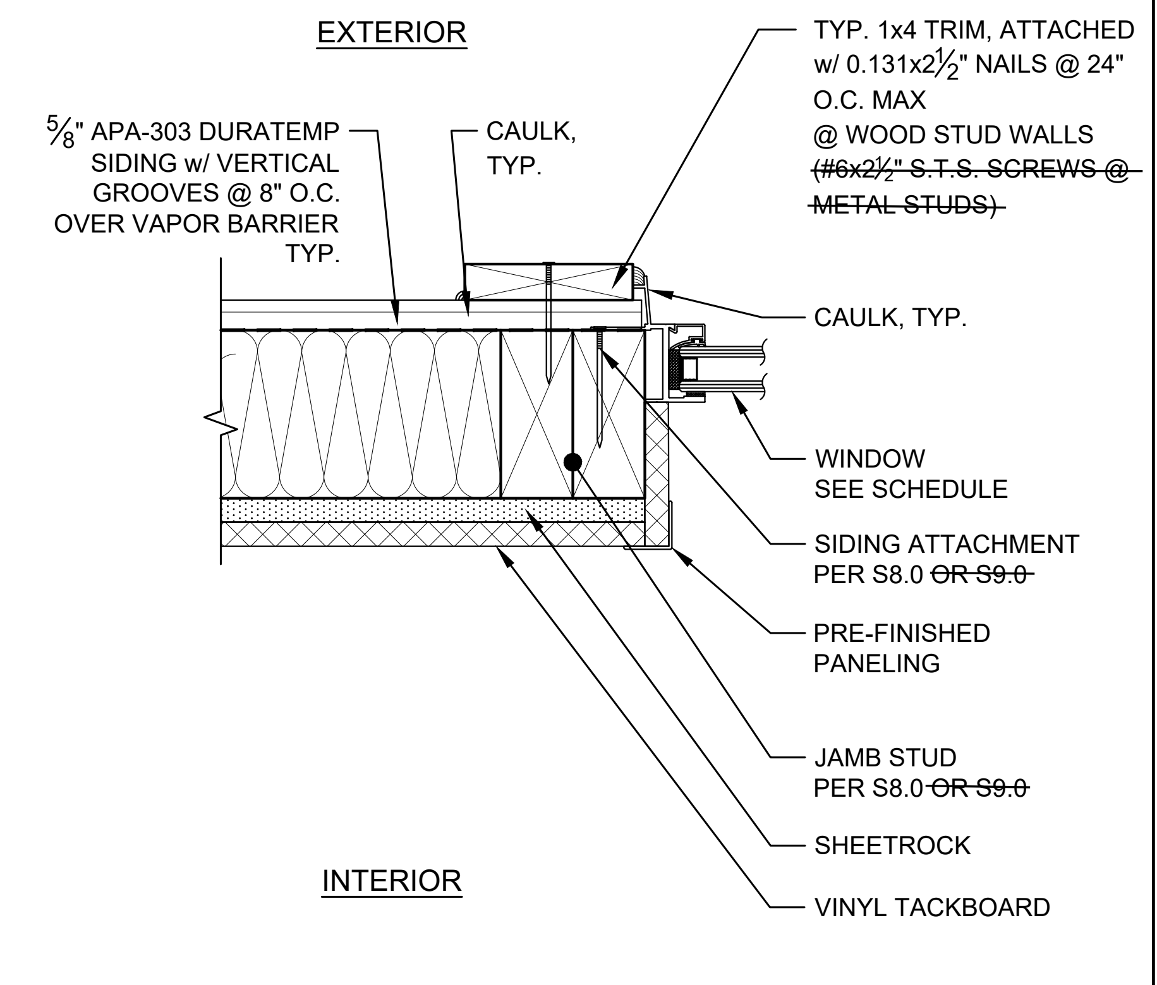
SHEET NUMBER:
A5.0


EXTERIOR
INTERIOR
WINDOW SEE SCHEDULE
SIDING ATTACHMENT PER S8.0 ~~OR S9.0~~
PRE-FINISHED PANELING
CAULK, TYP.
TYP. 1x4 TRIM, ATTACHED w/ 0.131x2½" NAILS @ 24" O.C. MAX @ WOOD STUD WALLS ~~(#6x2½" S.T.S. SCREWS @ METAL STUDS)~~
SHEETROCK
WINDOW SILL PER S8.0 ~~OR S9.0~~
CAULK, TYP.
⅝" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER, TYP.
VINYL TACKBOARD
TYP. EXTERIOR WALL

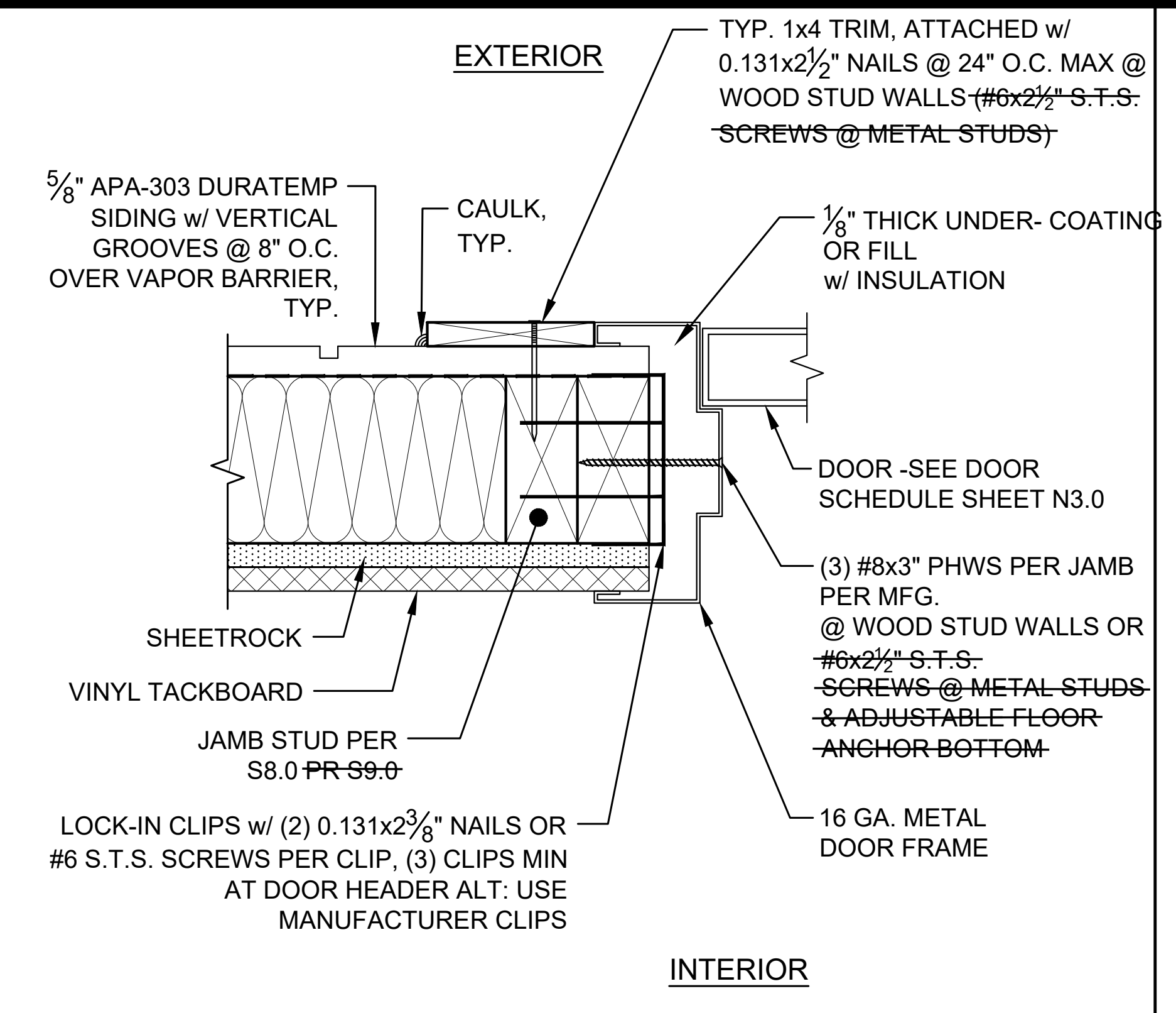
TYPICAL WINDOW SILL
SCALE: 3" = 1'-0" 1


EXTERIOR
INTERIOR
⅝" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER, TYP.
TYP. EXTERIOR WALL
SHEETROCK
CAULK, TYP.
VINYL TACKBOARD
TYP. 1x4 TRIM, ATTACHED w/ 0.131x2½" NAILS @ 24" O.C. MAX @ WOOD STUD WALLS ~~(#6x2½" S.T.S. SCREWS @ METAL STUDS)~~
WINDOW HEADER PER S8.0 ~~OR S9.0~~
SIDING ATTACHMENT PER S8.0 ~~OR S9.0~~
CAULK, TYP.
PRE-FINISHED PANELING
WINDOW SEE SCHEDULE

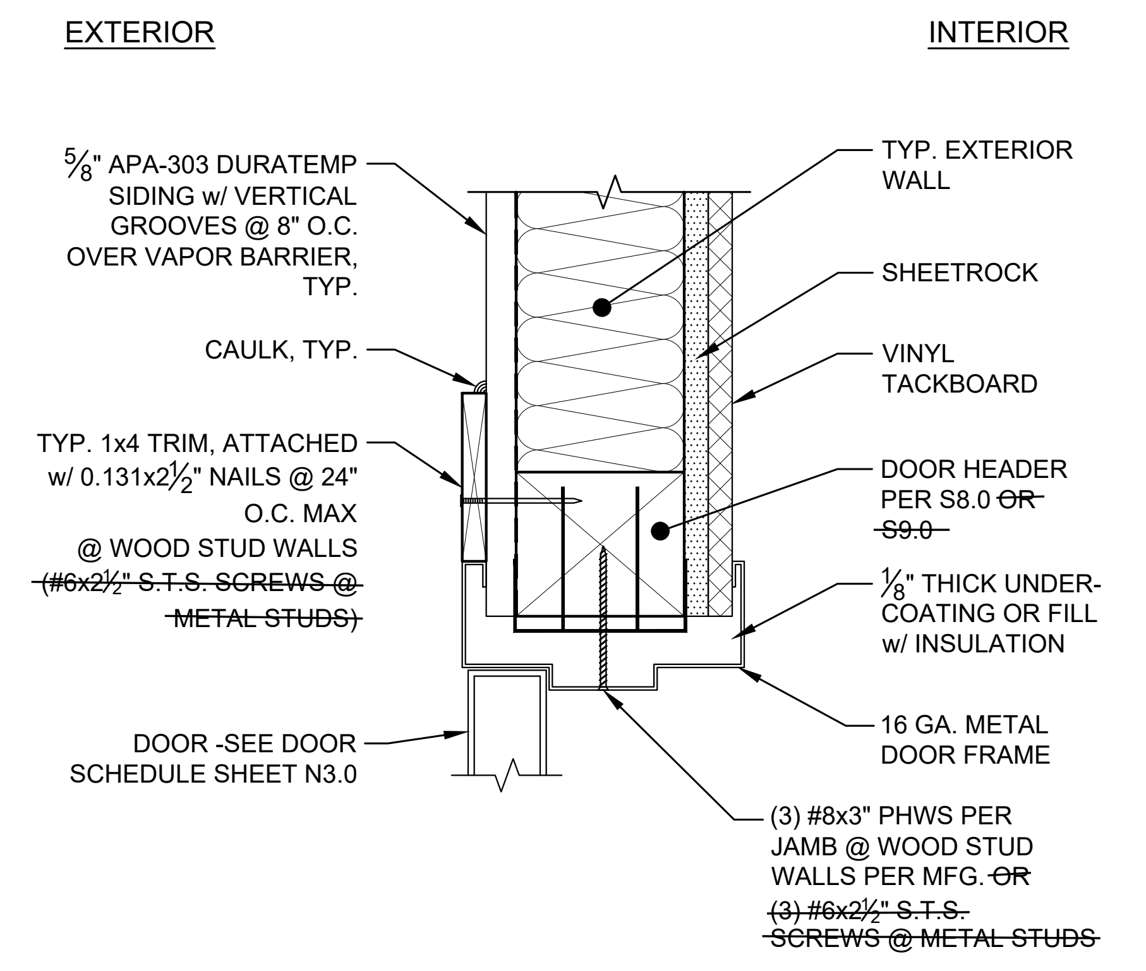
TYPICAL WINDOW HEADER
SCALE: 3" = 1'-0" 2


EXTERIOR
⅝" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER TYP.
CAULK, TYP.
TYP. 1x4 TRIM, ATTACHED w/ 0.131x2½" NAILS @ 24" O.C. MAX @ WOOD STUD WALLS ~~(#6x2½" S.T.S. SCREWS @ METAL STUDS)~~
CAULK, TYP.
WINDOW SEE SCHEDULE
SIDING ATTACHMENT PER S8.0 ~~OR S9.0~~
PRE-FINISHED PANELING
JAMB STUD PER S8.0 ~~OR S9.0~~
SHEETROCK
VINYL TACKBOARD
INTERIOR

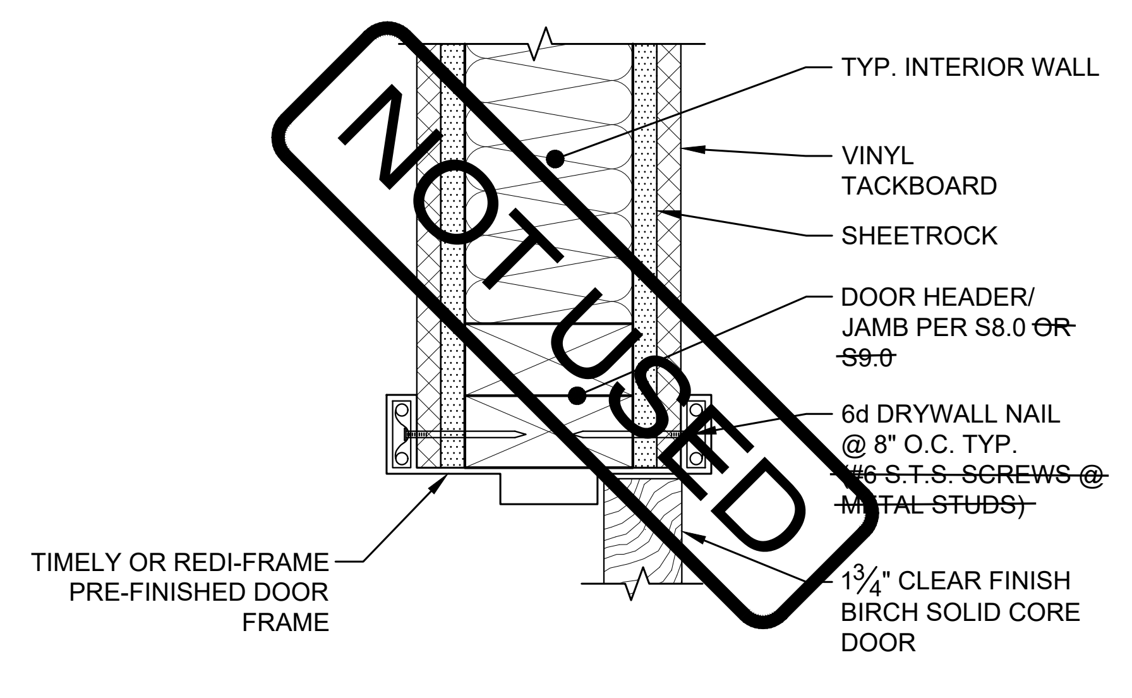
TYPICAL WINDOW JAMB
SCALE: 3" = 1'-0" 3


EXTERIOR
TYP. 1x4 TRIM, ATTACHED w/ 0.131x2½" NAILS @ 24" O.C. MAX @ WOOD STUD WALLS ~~(#6x2½" S.T.S. SCREWS @ METAL STUDS)~~
⅝" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER, TYP.
CAULK, TYP.
⅛" THICK UNDER- COATING OR FILL w/ INSULATION
DOOR -SEE DOOR SCHEDULE SHEET N3.0
(3) #8x3" PHWS PER JAMB PER MFG. @ WOOD STUD WALLS OR ~~#6x2½" S.T.S. SCREWS @ METAL STUDS & ADJUSTABLE FLOOR ANCHOR BOTTOM~~
SHEETROCK
VINYL TACKBOARD
JAMB STUD PER S8.0 ~~PR S9.0~~
16 GA. METAL DOOR FRAME
LOCK-IN CLIPS w/ (2) 0.131x2⅜" NAILS OR #6 S.T.S. SCREWS PER CLIP, (3) CLIPS MIN AT DOOR HEADER ALT: USE MANUFACTURER CLIPS
INTERIOR

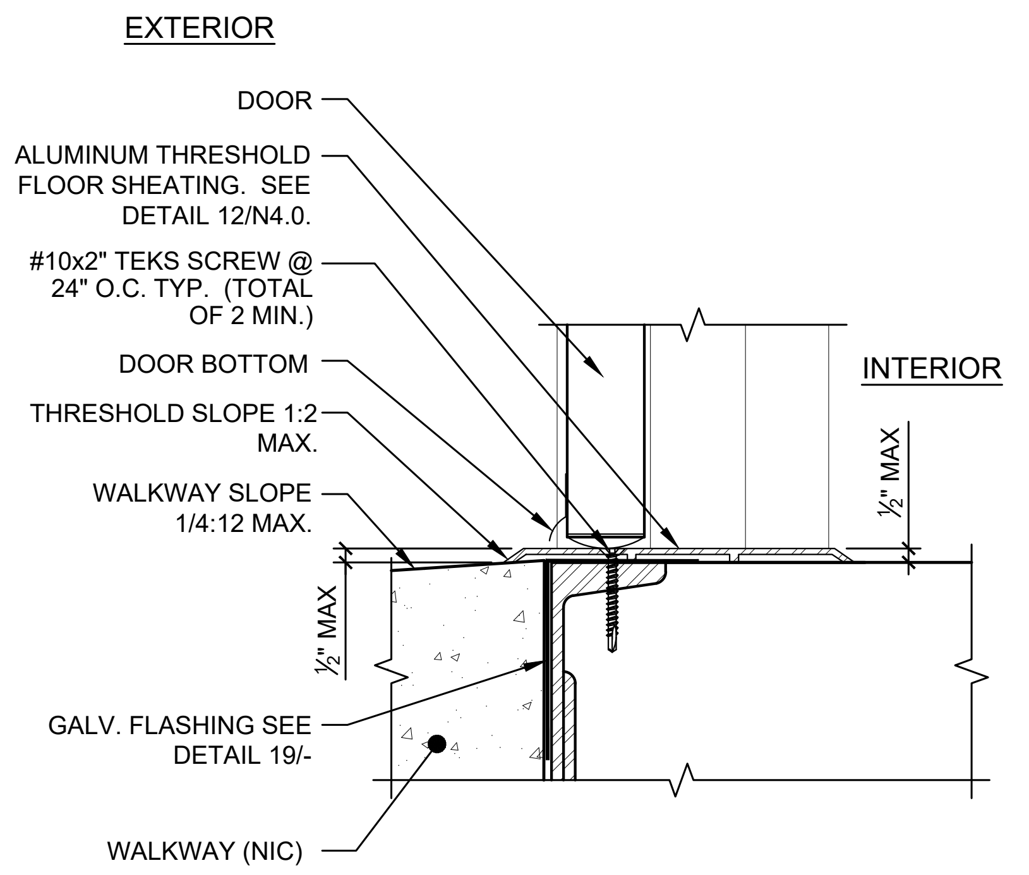
TYPICAL DOOR JAMB
SCALE: 3" = 1'-0" 4


EXTERIOR
INTERIOR
⅝" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER, TYP.
TYP. EXTERIOR WALL
SHEETROCK
CAULK, TYP.
VINYL TACKBOARD
TYP. 1x4 TRIM, ATTACHED w/ 0.131x2½" NAILS @ 24" O.C. MAX @ WOOD STUD WALLS ~~(#6x2½" S.T.S. SCREWS @ METAL STUDS)~~
DOOR HEADER PER S8.0 ~~OR S9.0~~
⅛" THICK UNDER-COATING OR FILL w/ INSULATION
DOOR -SEE DOOR SCHEDULE SHEET N3.0
16 GA. METAL DOOR FRAME
(3) #8x3" PHWS PER JAMB @ WOOD STUD WALLS PER MFG. ~~OR (3) #6x2½" S.T.S. SCREWS @ METAL STUDS~~

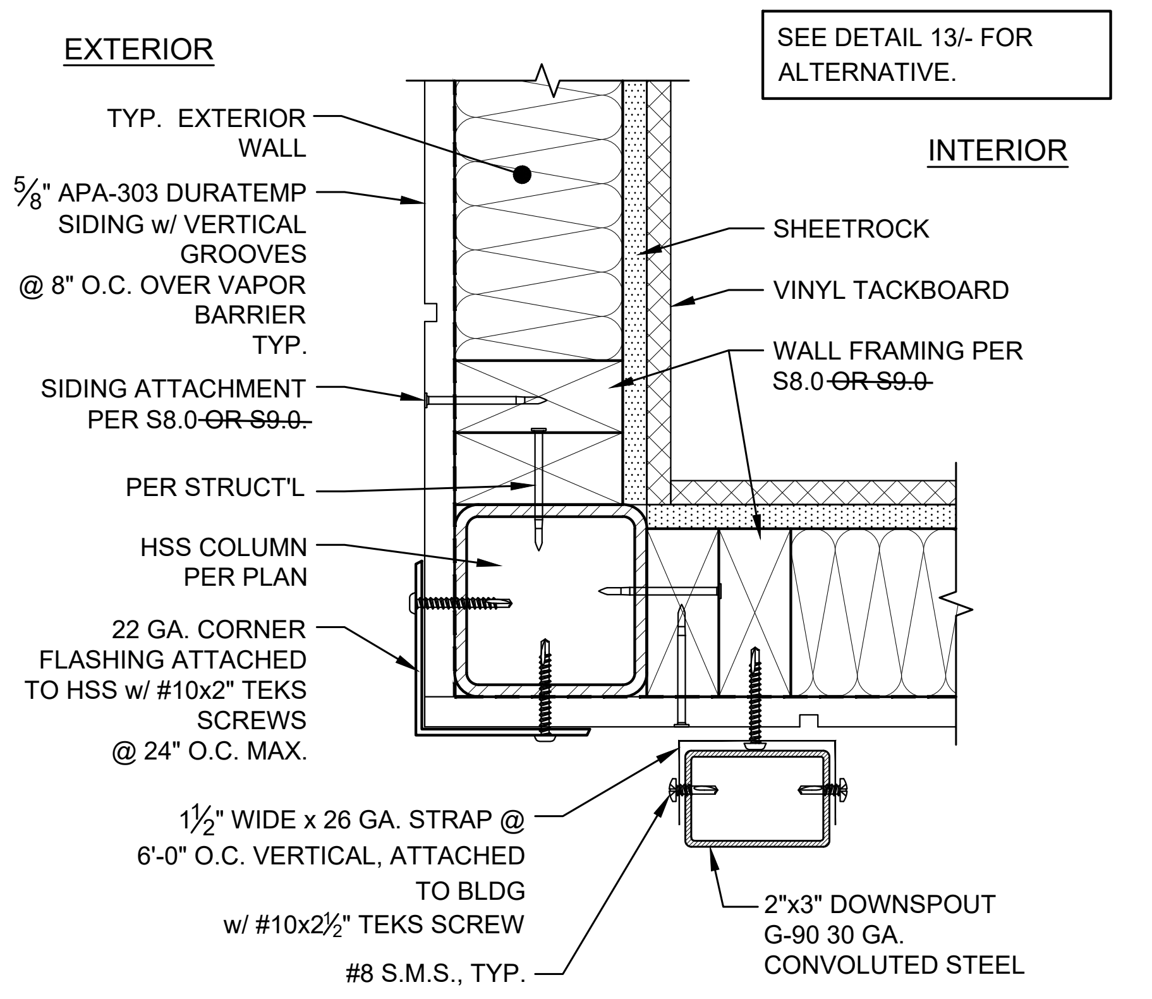
TYPICAL DOOR HEADER
SCALE: 3" = 1'-0" 5


NOT USED
TYP. INTERIOR WALL
VINYL TACKBOARD
SHEETROCK
DOOR HEADER/ JAMB PER S8.0 ~~OR S9.0~~
6d DRYWALL NAIL @ 8" O.C. TYP. ~~(#6 S.T.S. SCREWS @ METAL STUDS)~~
TIMELY OR REDI-FRAME PRE-FINISHED DOOR FRAME
1¾" CLEAR FINISH BIRCH SOLID CORE DOOR

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

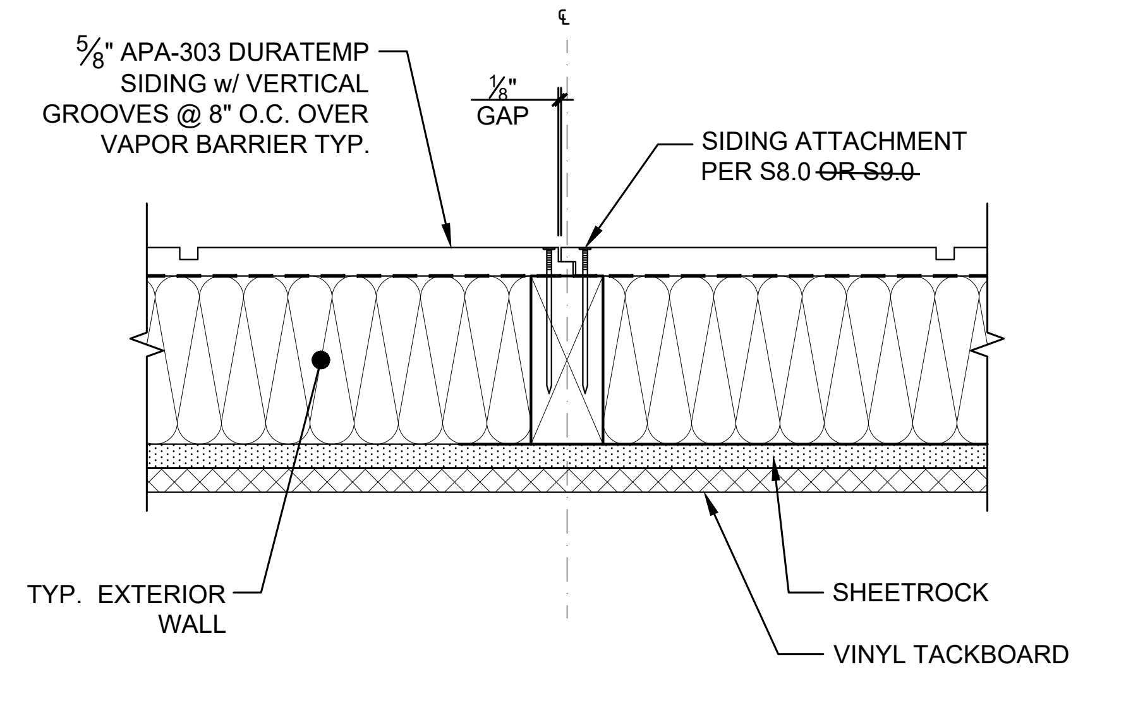

EXTERIOR
DOOR
ALUMINUM THRESHOLD FLOOR SHEATING. SEE DETAIL 12/N4.0.
#10x2" TEKS SCREW @ 24" O.C. TYP. (TOTAL OF 2 MIN.)
DOOR BOTTOM
INTERIOR
THRESHOLD SLOPE 1:2 MAX.
½" MAX
WALKWAY SLOPE 1/4:12 MAX.
½" MAX
GALV. FLASHING SEE DETAIL 19/-
WALKWAY (NIC)

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

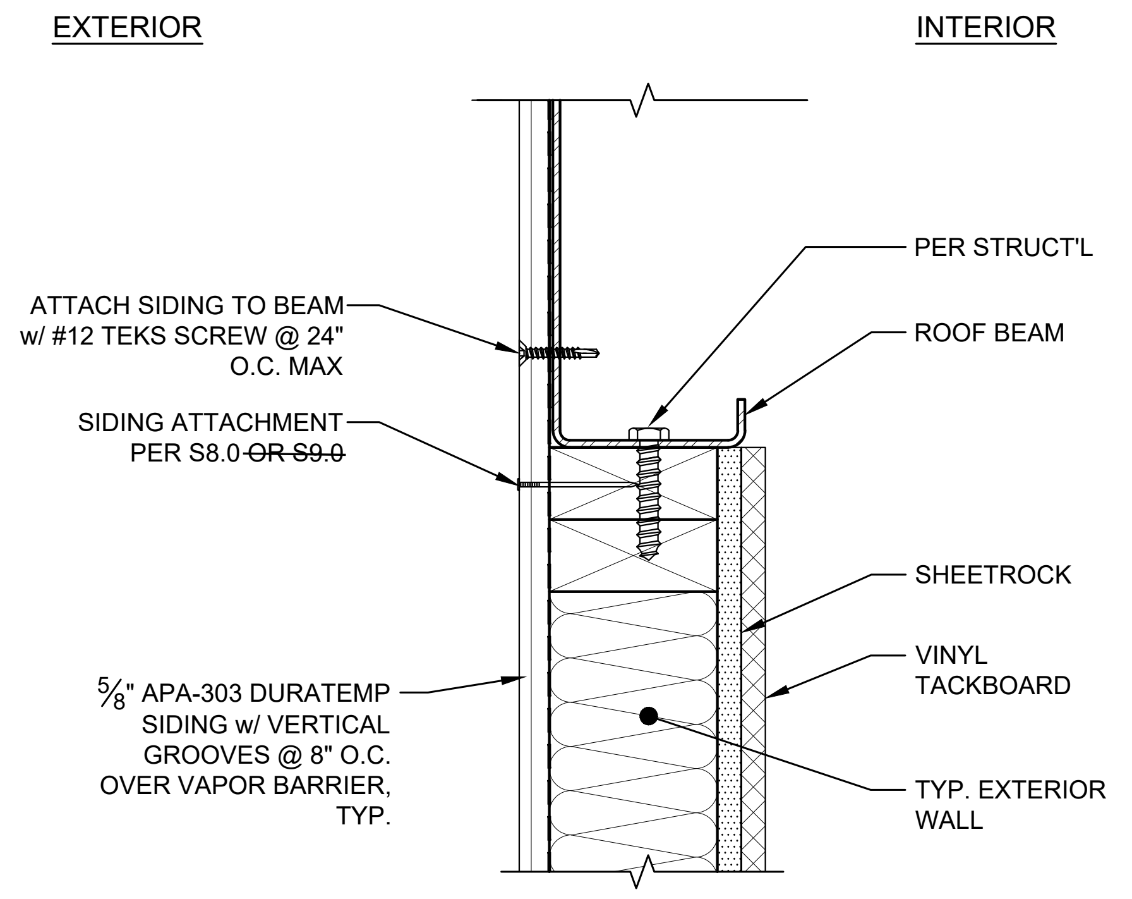

EXTERIOR
SEE DETAIL 13/- FOR ALTERNATIVE.
INTERIOR
TYP. EXTERIOR WALL
⅝" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER TYP.
SHEETROCK
VINYL TACKBOARD
WALL FRAMING PER S8.0 ~~OR S9.0~~
SIDING ATTACHMENT PER S8.0 ~~OR S9.0.~~
PER STRUCT'L
HSS COLUMN PER PLAN
22 GA. CORNER FLASHING ATTACHED TO HSS w/ #10x2" TEKS SCREWS @ 24" O.C. MAX.
1½" WIDE x 26 GA. STRAP @ 6'-0" O.C. VERTICAL, ATTACHED TO BLDG w/ #10x2½" TEKS SCREW
2"x3" DOWNSPOUT G-90 30 GA. CONVOLUTED STEEL
#8 S.M.S., TYP.

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

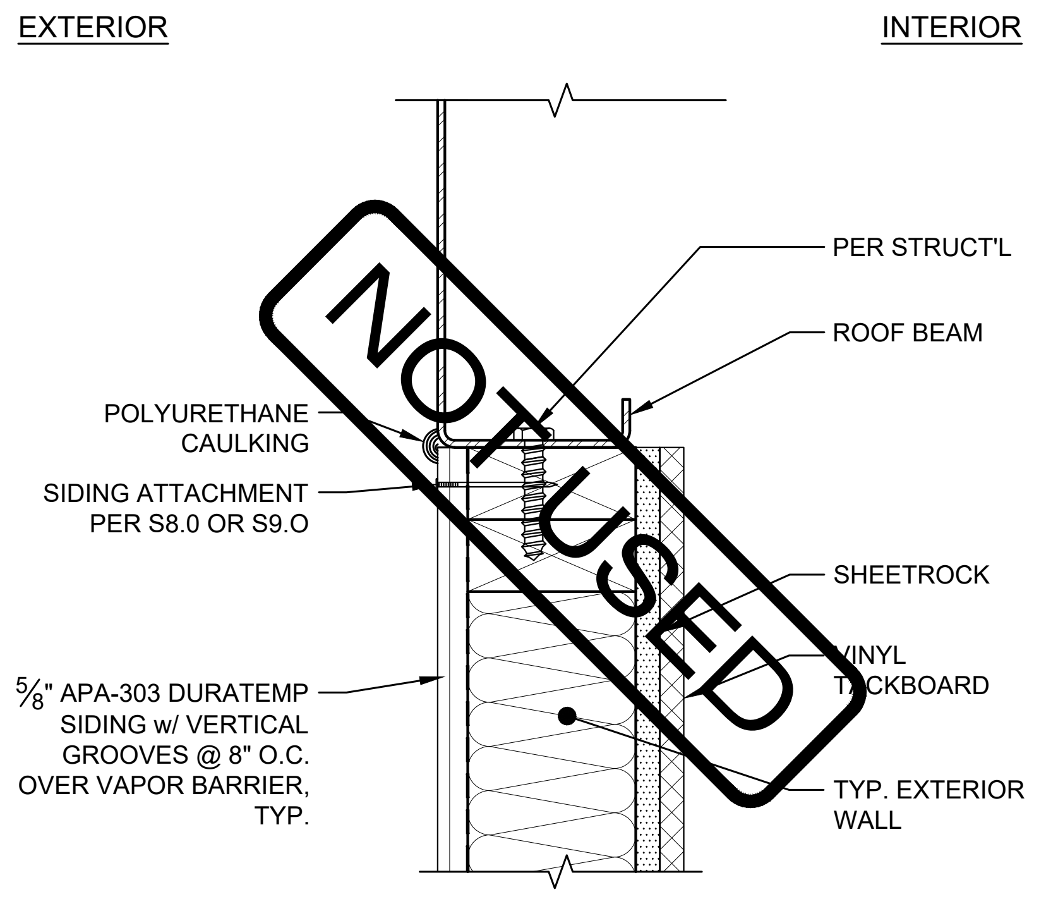
NOT USED
9


⅝" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER TYP.
⅛" GAP
SIDING ATTACHMENT PER S8.0 ~~OR S9.0~~
TYP. EXTERIOR WALL
SHEETROCK
VINYL TACKBOARD

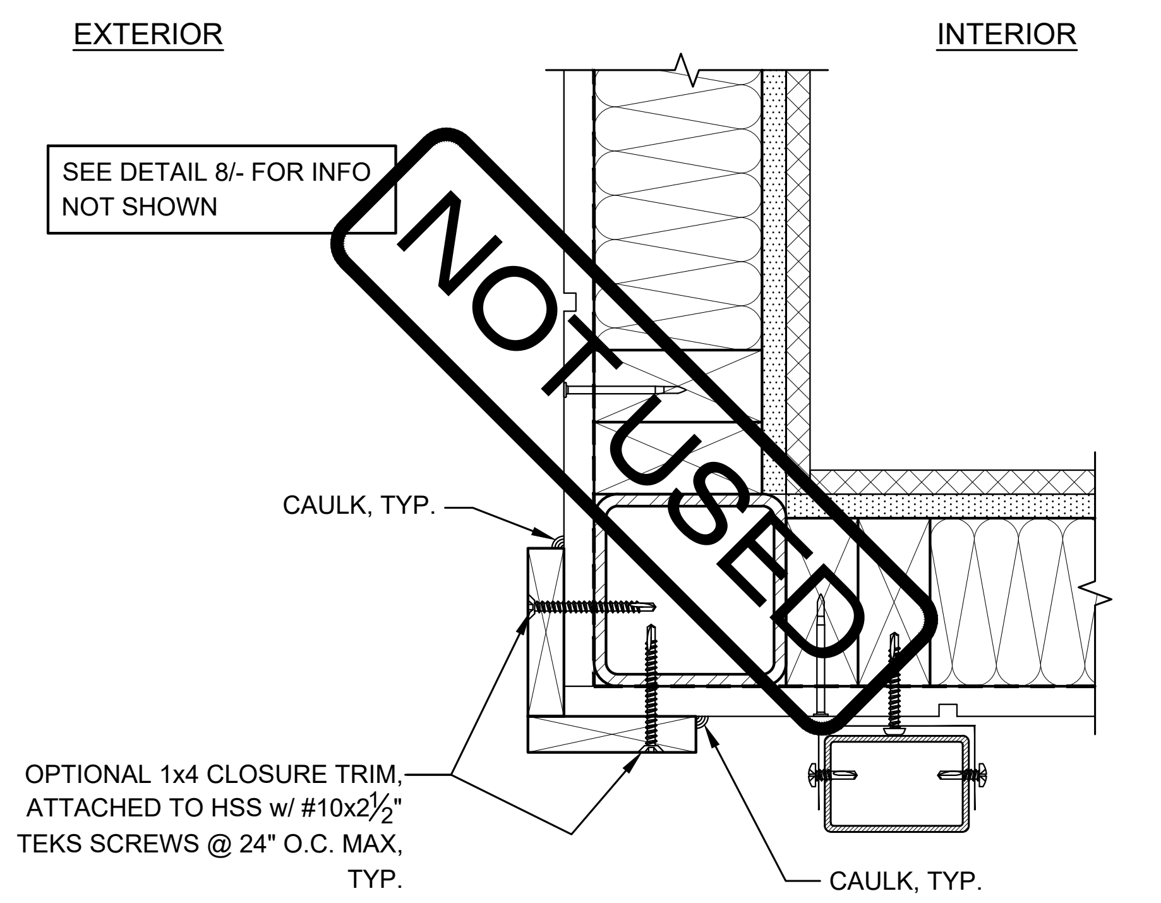
TYP. SIDING JOINT DETAIL
SCALE: 3" = 1'-0" 10


EXTERIOR
INTERIOR
PER STRUCT'L
ATTACH SIDING TO BEAM w/ #12 TEKS SCREW @ 24" O.C. MAX
ROOF BEAM
SIDING ATTACHMENT PER S8.0 ~~OR S9.0~~
SHEETROCK
⅝" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER, TYP.
VINYL TACKBOARD
TYP. EXTERIOR WALL

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


EXTERIOR
INTERIOR
NOT USED
PER STRUCT'L
ROOF BEAM
POLYURETHANE CAULKING
SIDING ATTACHMENT PER S8.0 OR S9.O
SHEETROCK
VINYL TACKBOARD
⅝" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER, TYP.
TYP. EXTERIOR WALL

ALTERNATE SIDING @ ROOF BEAM
SCALE: 3" = 1'-0" 12


EXTERIOR
INTERIOR
SEE DETAIL 8/- FOR INFO NOT SHOWN
NOT USED
CAULK, TYP.
OPTIONAL 1x4 CLOSURE TRIM, ATTACHED TO HSS w/ #10x2½" TEKS SCREWS @ 24" O.C. MAX, TYP.
CAULK, TYP.

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

NOTES:

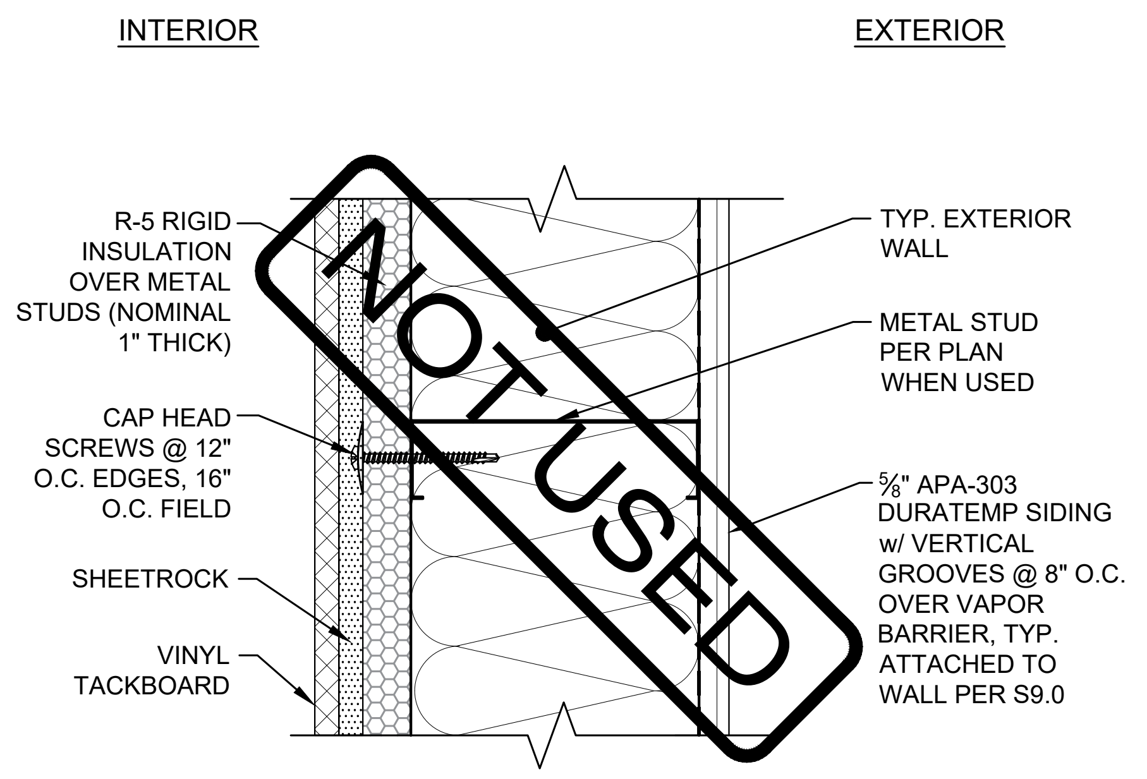
~~1. FOR OPTIONAL METAL STUD FRAMING, SEE S9.0-S9.2.~~

~~2. ADDITIONAL R-5 RIGID INSULATION REQUIRED @ METAL STUD WALLS, PER INSULATION SCHEDULE SHEET M1.7 & DETAIL 18/-~~

~~3. FOR FINISH OPTIONS, SEE SHEET A7.0.~~

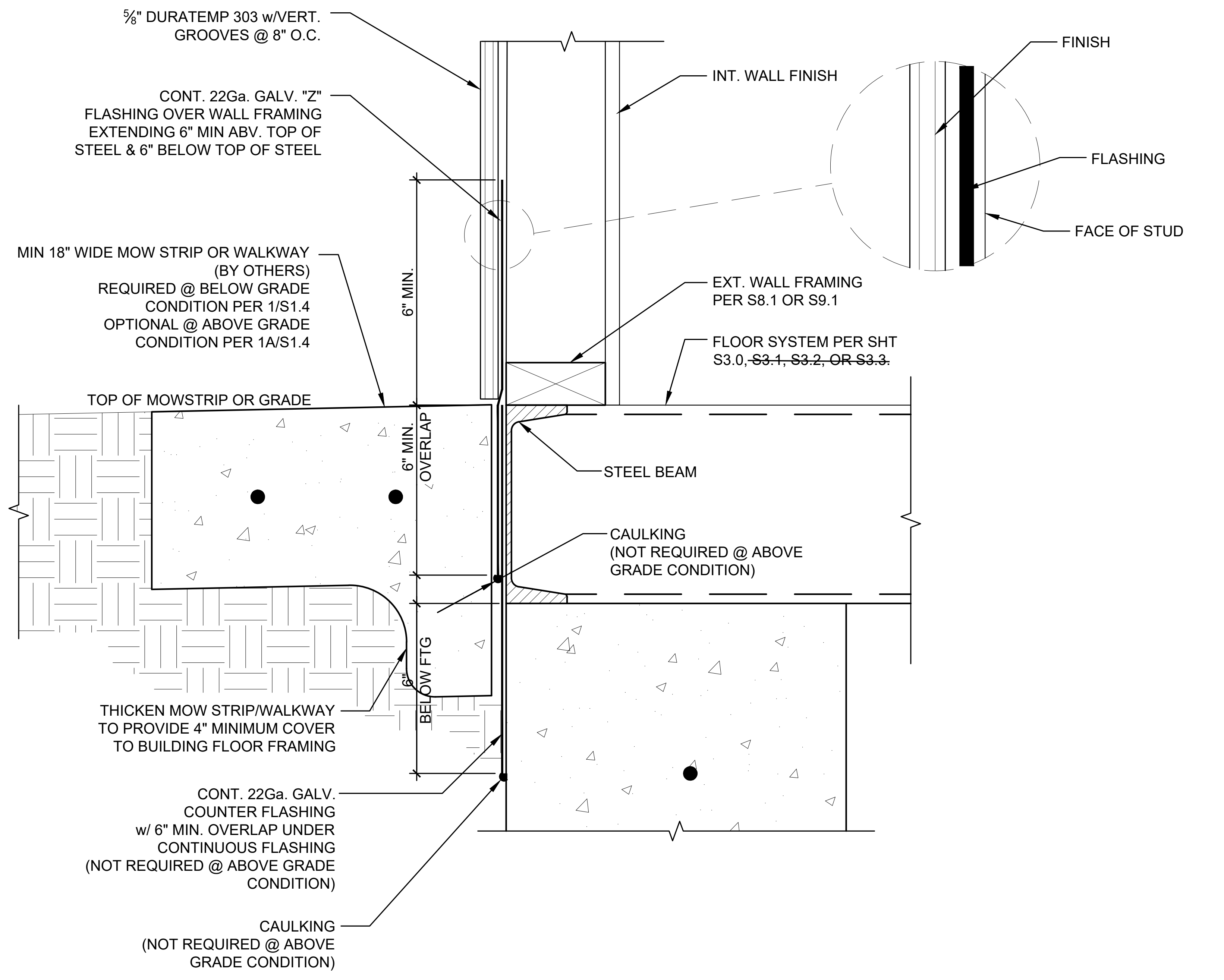
SHEET NOTES

NOT USED
17


INTERIOR
EXTERIOR
NOT USED
R-5 RIGID INSULATION OVER METAL STUDS (NOMINAL 1" THICK)
TYP. EXTERIOR WALL
METAL STUD PER PLAN WHEN USED
CAP HEAD SCREWS @ 12" O.C. EDGES, 16" O.C. FIELD
⅝" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER, TYP. ATTACHED TO WALL PER S9.0
SHEETROCK
VINYL TACKBOARD

SEE SHEET NOTES #2

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


⅝" DURATEMP 303 w/VERT. GROOVES @ 8" O.C.
INT. WALL FINISH
FINISH
CONT. 22Ga. GALV. "Z" FLASHING OVER WALL FRAMING EXTENDING 6" MIN ABV. TOP OF STEEL & 6" BELOW TOP OF STEEL
FLASHING
FACE OF STUD
MIN 18" WIDE MOW STRIP OR WALKWAY (BY OTHERS) REQUIRED @ BELOW GRADE CONDITION PER 1/S1.4 OPTIONAL @ ABOVE GRADE CONDITION PER 1A/S1.4
6" MIN.
EXT. WALL FRAMING PER S8.1 OR S9.1
FLOOR SYSTEM PER SHT S3.0, ~~S3.1, S3.2, OR S3.3.~~
TOP OF MOWSTRIP OR GRADE
6" MIN. OVERLAP
STEEL BEAM
CAULKING (NOT REQUIRED @ ABOVE GRADE CONDITION)
6" BELOW FTG
THICKEN MOW STRIP/WALKWAY TO PROVIDE 4" MINIMUM COVER TO BUILDING FLOOR FRAMING
CONT. 22Ga. GALV. COUNTER FLASHING w/ 6" MIN. OVERLAP UNDER CONTINUOUS FLASHING (NOT REQUIRED @ ABOVE GRADE CONDITION)
CAULKING (NOT REQUIRED @ ABOVE GRADE CONDITION)

FLASHING DETAIL
SCALE: 3" = 1'-0" 19

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

FORM

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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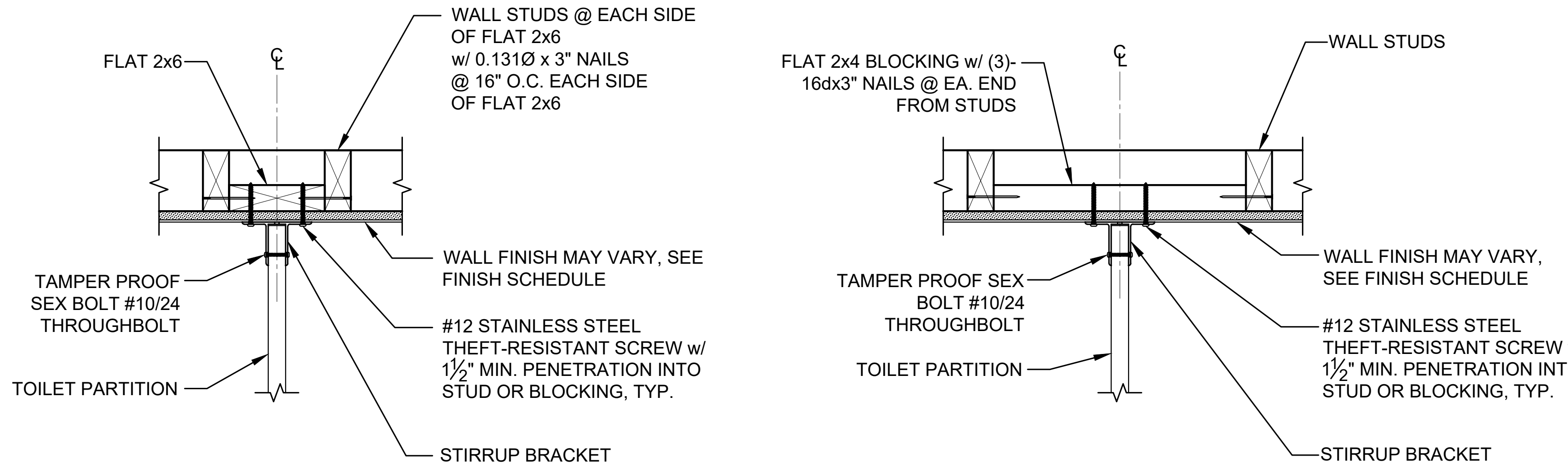
REVISIONS
1
2
3
4

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

SHEET TITLE:
TYP. ARCHITECTURAL DETAILS - DURATEMP 303 SIDING OPTION

SHEET NUMBER:
A5.1

TOILET PARTITION ANCHORAGE BLOCKING DETAILS @ WALL
SCALE: 1-1/2" = 1'-0" | 1


FLAT 2x6
℄
WALL STUDS @ EACH SIDE OF FLAT 2x6 w/ 0.131Ø x 3" NAILS @ 16" O.C. EACH SIDE OF FLAT 2x6
TAMPER PROOF SEX BOLT #10/24 THROUGHBOLT
WALL FINISH MAY VARY, SEE FINISH SCHEDULE
#12 STAINLESS STEEL THEFT-RESISTANT SCREW w/ 1½" MIN. PENETRATION INTO STUD OR BLOCKING, TYP.
TOILET PARTITION
STIRRUP BRACKET
FLAT 2x4 BLOCKING w/ (3)-16dx3" NAILS @ EA. END FROM STUDS
WALL STUDS
TAMPER PROOF SEX BOLT #10/24 THROUGHBOLT
WALL FINISH MAY VARY, SEE FINISH SCHEDULE
#12 STAINLESS STEEL THEFT-RESISTANT SCREW w/ 1½" MIN. PENETRATION INTO STUD OR BLOCKING, TYP.
TOILET PARTITION
STIRRUP BRACKET

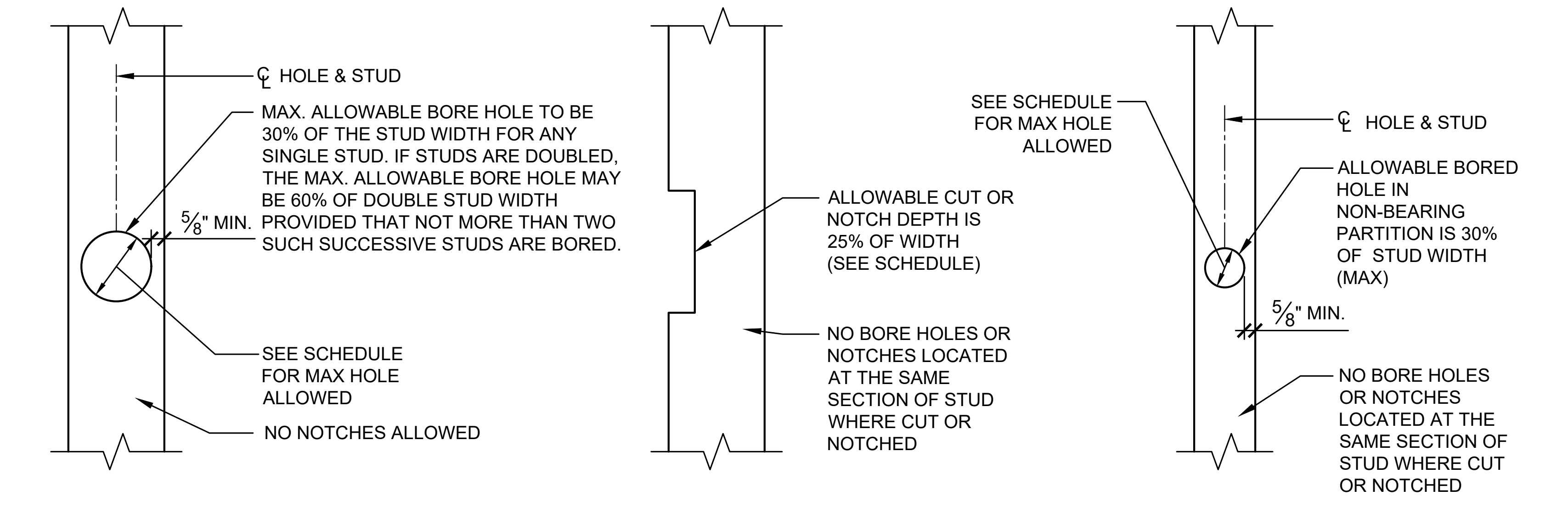
WOOD STUDS OPTION No. 1

WOOD STUDS OPTION No. 2

STUD NOTCHING AND BORING DETAILS
NOT TO SCALE | 2

NOTCH & BORING SCHEDULE

	NOMINAL STUD SIZE	ACTUAL STUD DEPTH	MAX NOTCH DEPTH	MAX BORED HOLE DIAMETER
EXTERIOR WALL	2x6	5½"	NOT PERMITTED	1"
	2x8	7¼"	1½"	1¾"
INTERIOR WALL	2x4	3½"	NOT PERMITTED	¾"
	2x6	5½"	¾"	1½"
	2x8	7¼"	1½"	2½"

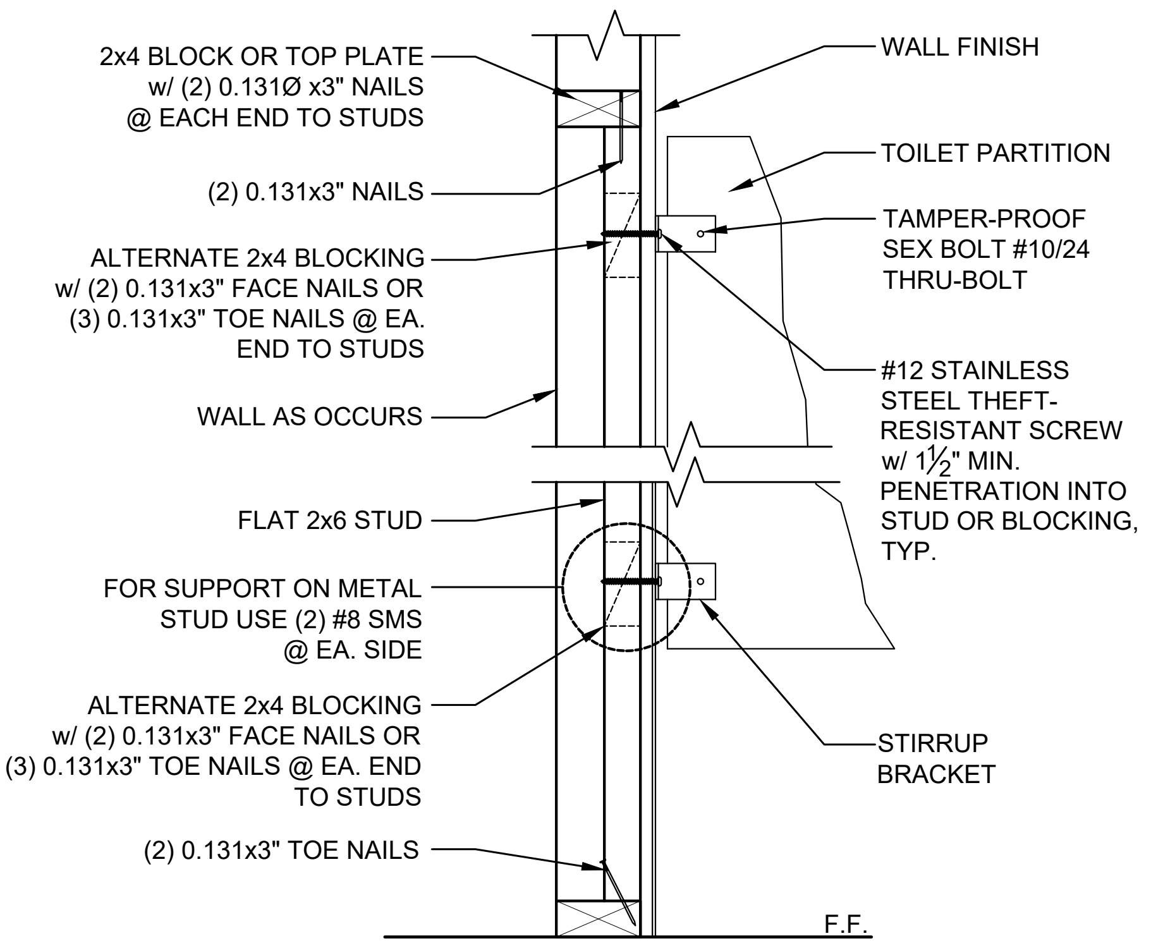

℄ HOLE & STUD
MAX. ALLOWABLE BORE HOLE TO BE 30% OF THE STUD WIDTH FOR ANY SINGLE STUD. IF STUDS ARE DOUBLED, THE MAX. ALLOWABLE BORE HOLE MAY BE 60% OF DOUBLE STUD WIDTH PROVIDED THAT NOT MORE THAN TWO SUCH SUCCESSIVE STUDS ARE BORED.
⅝" MIN.
SEE SCHEDULE FOR MAX HOLE ALLOWED
NO NOTCHES ALLOWED
ALLOWABLE CUT OR NOTCH DEPTH IS 25% OF WIDTH (SEE SCHEDULE)
NO BORE HOLES OR NOTCHES LOCATED AT THE SAME SECTION OF STUD WHERE CUT OR NOTCHED
SEE SCHEDULE FOR MAX HOLE ALLOWED
℄ HOLE & STUD
ALLOWABLE BORED HOLE IN NON-BEARING PARTITION IS 30% OF STUD WIDTH (MAX)
⅝" MIN.
NO BORE HOLES OR NOTCHES LOCATED AT THE SAME SECTION OF STUD WHERE CUT OR NOTCHED

EXTERIOR WALL BORING

INTERIOR WALL NOTCHING

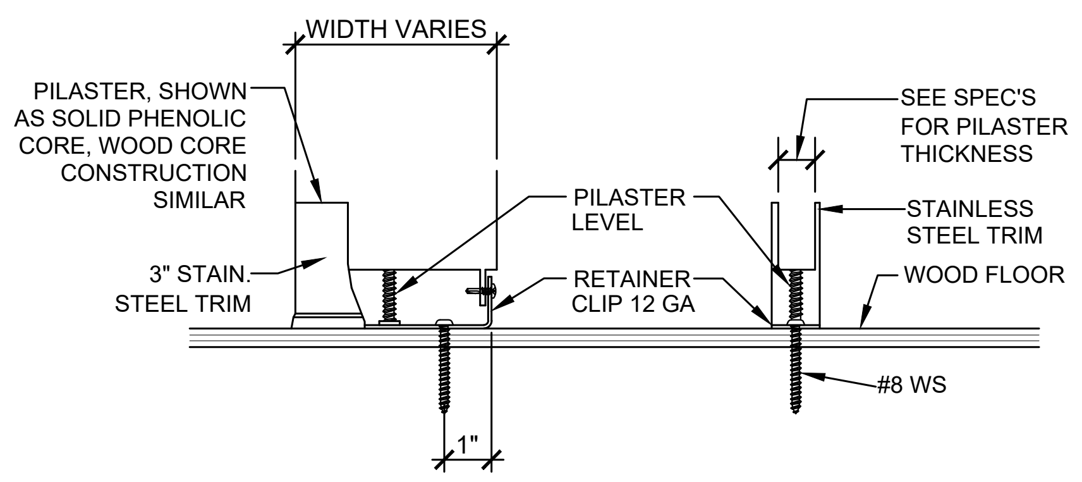
INTERIOR WALL BORING

TOILET PARTITION WALL BLOCKING
NOT TO SCALE | 3

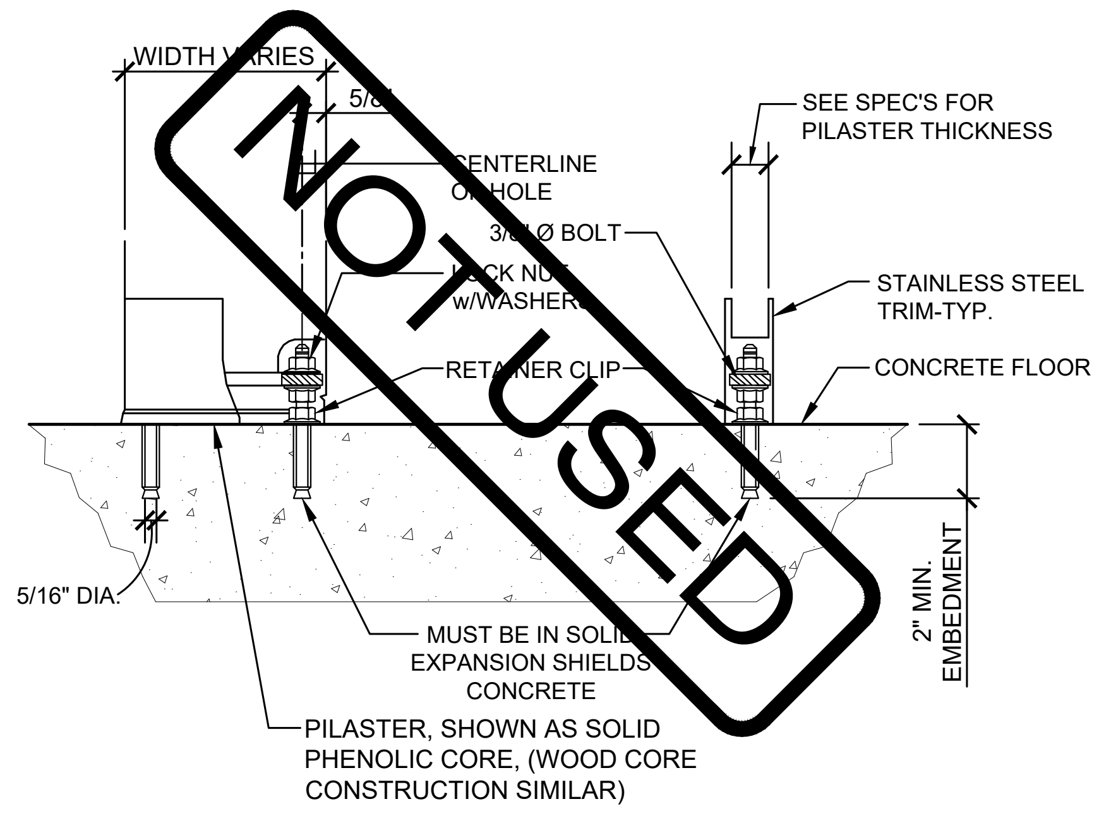

2x4 BLOCK OR TOP PLATE w/ (2) 0.131Ø x3" NAILS @ EACH END TO STUDS
(2) 0.131x3" NAILS
ALTERNATE 2x4 BLOCKING w/ (2) 0.131x3" FACE NAILS OR (3) 0.131x3" TOE NAILS @ EA. END TO STUDS
WALL AS OCCURS
FLAT 2x6 STUD
FOR SUPPORT ON METAL STUD USE (2) #8 SMS @ EA. SIDE
ALTERNATE 2x4 BLOCKING w/ (2) 0.131x3" FACE NAILS OR (3) 0.131x3" TOE NAILS @ EA. END TO STUDS
(2) 0.131x3" TOE NAILS
WALL FINISH
TOILET PARTITION
TAMPER-PROOF SEX BOLT #10/24 THRU-BOLT
#12 STAINLESS STEEL THEFT-RESISTANT SCREW w/ 1½" MIN. PENETRATION INTO STUD OR BLOCKING, TYP.
STIRRUP BRACKET
F.F.

NOTE: FOR METAL STUD OPTION, SEE SHEET 20/S9.1 FOR BLOCKING.

PARTITION TO WOOD FLOOR
NOT TO SCALE | 4

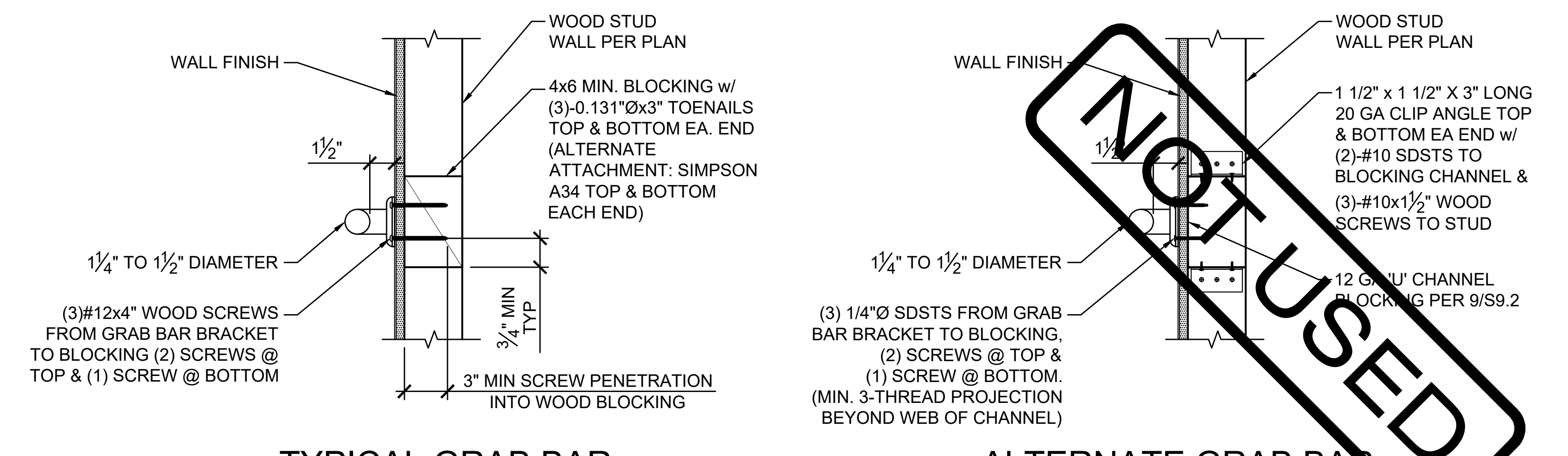

WIDTH VARIES
PILASTER, SHOWN AS SOLID PHENOLIC CORE, WOOD CORE CONSTRUCTION SIMILAR
3" STAIN. STEEL TRIM
PILASTER LEVEL
RETAINER CLIP 12 GA
1"
SEE SPEC'S FOR PILASTER THICKNESS
STAINLESS STEEL TRIM
WOOD FLOOR
#8 WS

PARTITION TO CONCRETE FLOOR
NOT TO SCALE | 5


NOT USED
WIDTH VARIES
5/8"
CENTERLINE OF HOLE
3/8"Ø BOLT
LOCK NUT w/WASHER
RETAINER CLIP
SEE SPEC'S FOR PILASTER THICKNESS
STAINLESS STEEL TRIM-TYP.
CONCRETE FLOOR
5/16" DIA.
MUST BE IN SOLID EXPANSION SHIELDS CONCRETE
2" MIN. EMBEDMENT
PILASTER, SHOWN AS SOLID PHENOLIC CORE, (WOOD CORE CONSTRUCTION SIMILAR)

DRILL HOLES FOR FLOOR ATTACHMENT 5/8" FROM EDGE OF PILASTER. TYPICAL FOR ALL LOCATIONS. NOTE: PLACE STAINLESS STEEL TRIM ON PILASTER, SLIDE UP BEFORE SECURING PILASTER TO FLOOR ATTACHMENT.

GRAB BAR BLOCKING DETAIL
SCALE: 1-1/2" = 1'-0" | 6

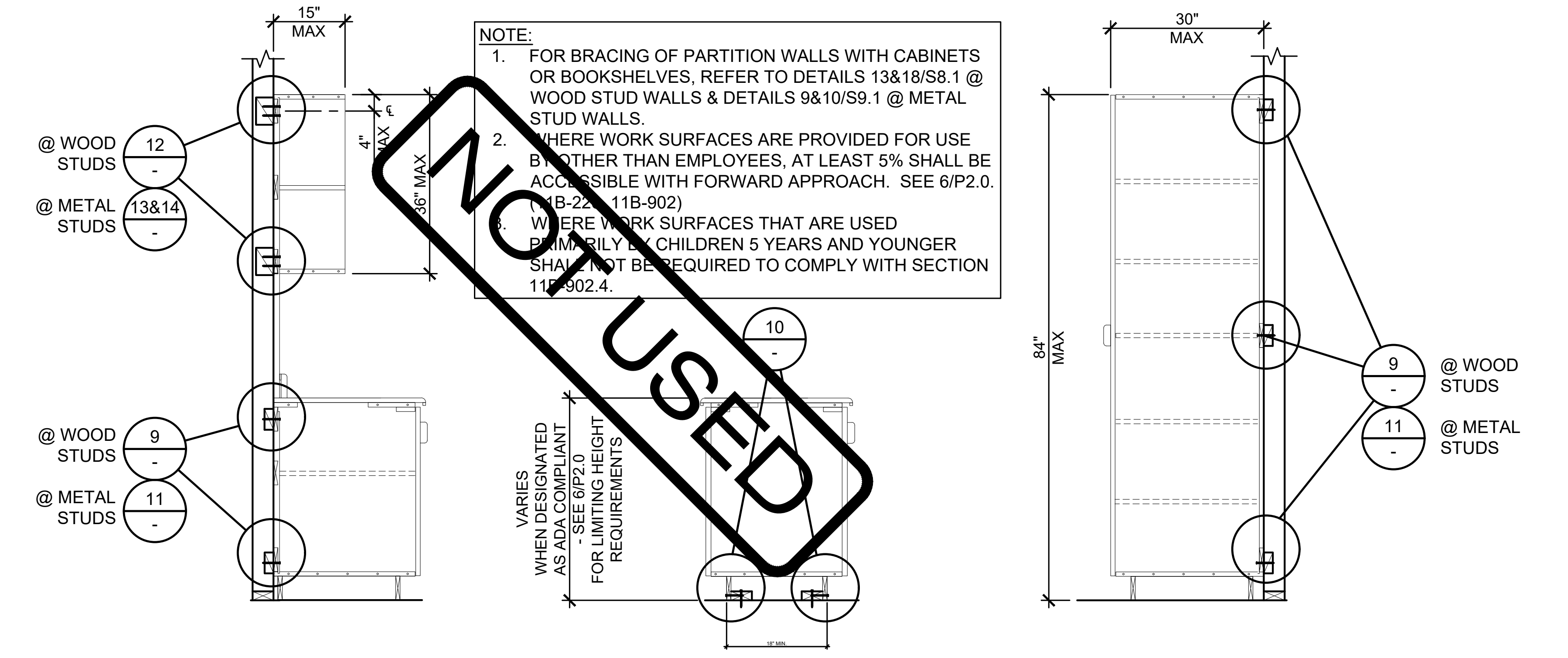

WALL FINISH
WOOD STUD WALL PER PLAN
4x6 MIN. BLOCKING w/ (3)-0.131"Øx3" TOENAILS TOP & BOTTOM EA. END (ALTERNATE ATTACHMENT: SIMPSON A34 TOP & BOTTOM EACH END)
1½"
1¼" TO 1½" DIAMETER
(3)#12x4" WOOD SCREWS FROM GRAB BAR BRACKET TO BLOCKING (2) SCREWS @ TOP & (1) SCREW @ BOTTOM
¾" MIN TYP
3" MIN SCREW PENETRATION INTO WOOD BLOCKING
NOT USED
WALL FINISH
WOOD STUD WALL PER PLAN
1 1/2" x 1 1/2" X 3" LONG 20 GA CLIP ANGLE TOP & BOTTOM EA END w/ (2)-#10 SDSTS TO BLOCKING CHANNEL & (3)-#10x1½" WOOD SCREWS TO STUD
1¼" TO 1½" DIAMETER
(3) 1/4"Ø SDSTS FROM GRAB BAR BRACKET TO BLOCKING, (2) SCREWS @ TOP & (1) SCREW @ BOTTOM. (MIN. 3-THREAD PROJECTION BEYOND WEB OF CHANNEL)
12 GA 'U' CHANNEL BLOCKING PER 9/S9.2

TYPICAL GRAB BAR BLOCKING DETAIL

ALTERNATE GRAB BAR BLOCKING DETAIL

NOTE: FOR METAL STUD WALL OPTION, SEE DETAILS 9&10/S9.2.

TYP. CABINET ATTACHMENT
NOT TO SCALE | 8



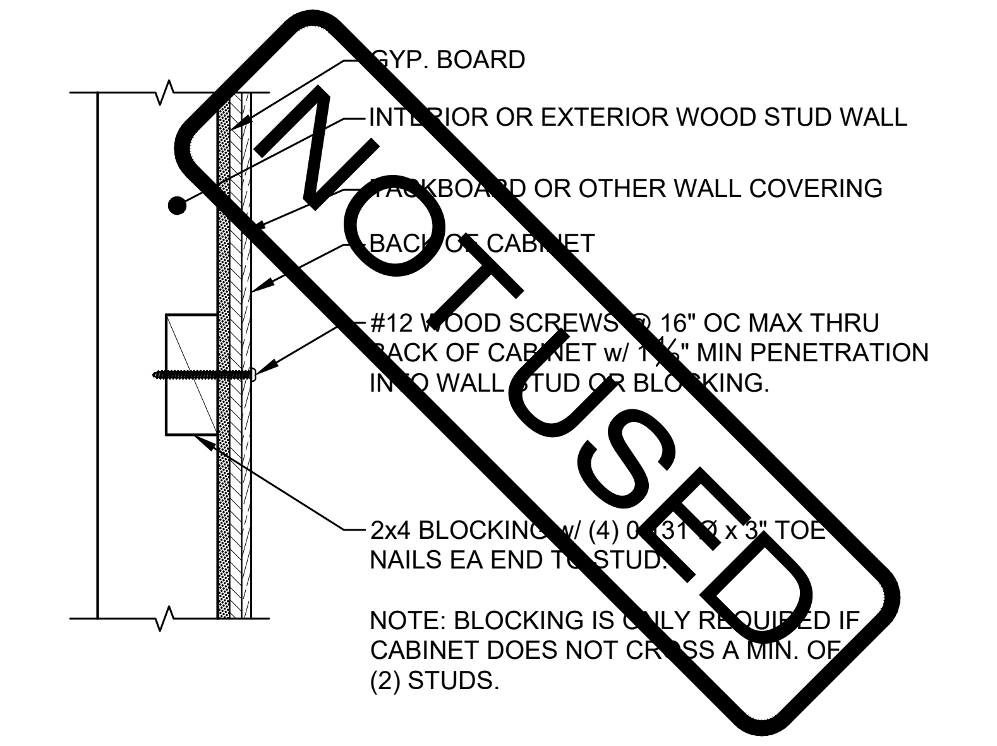
NOTE:
1. FOR BRACING OF PARTITION WALLS WITH CABINETS OR BOOKSHELVES, REFER TO DETAILS 13&18/S8.1 @ WOOD STUD WALLS & DETAILS 9&10/S9.1 @ METAL STUD WALLS.
2. WHERE WORK SURFACES ARE PROVIDED FOR USE BY OTHER THAN EMPLOYEES, AT LEAST 5% SHALL BE ACCESSIBLE WITH FORWARD APPROACH. SEE 6/P2.0. (11B-226, 11B-902)
3. WHERE WORK SURFACES THAT ARE USED PRIMARILY BY CHILDREN 5 YEARS AND YOUNGER SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-902.4.

UPPER/BASE CABINET

ISLAND CABINET

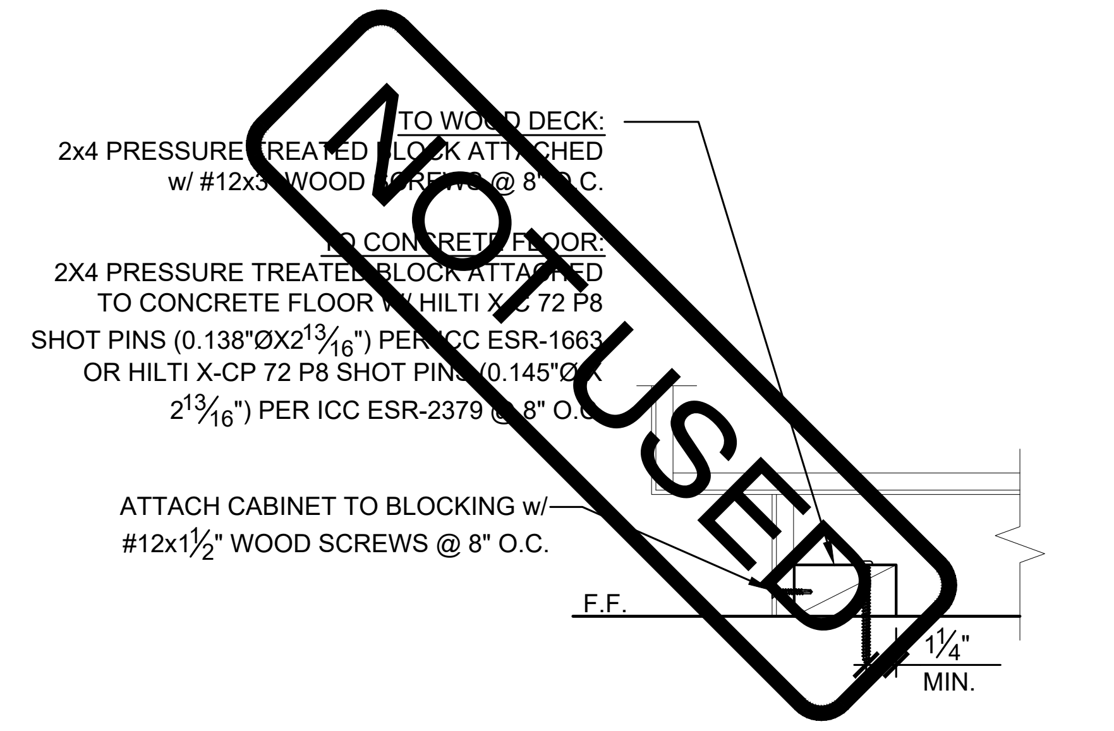
TALL CABINET

FLOOR SUPPORTED CABINET ATTACHMENT @ WOOD STUD WALLS
SCALE: 1-1/2" = 1'-0" | 9

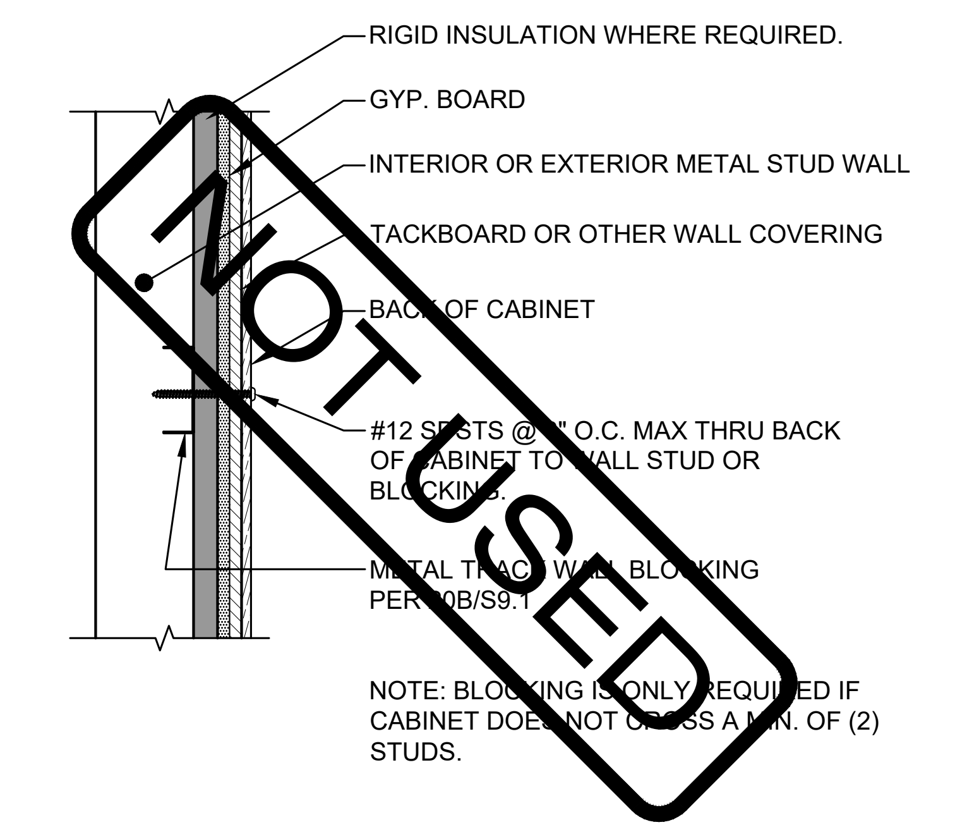

NOT USED
GYP. BOARD
INTERIOR OR EXTERIOR WOOD STUD WALL
TACKBOARD OR OTHER WALL COVERING
BACK OF CABINET
#12 WOOD SCREWS @ 16" OC MAX THRU BACK OF CABINET w/ 1½" MIN PENETRATION INTO WALL STUD OR BLOCKING.
2x4 BLOCKING w/ (4) 0.131"Ø x 3" TOE NAILS EA END TO STUD.
NOTE: BLOCKING IS ONLY REQUIRED IF CABINET DOES NOT CROSS A MIN. OF (2) STUDS.

NOTE: SEE 11/- FOR METAL STUD WALLS.

ISLAND CABINET ATTACHMENT @ FLOOR
SCALE: 1-1/2" = 1'-0" | 10

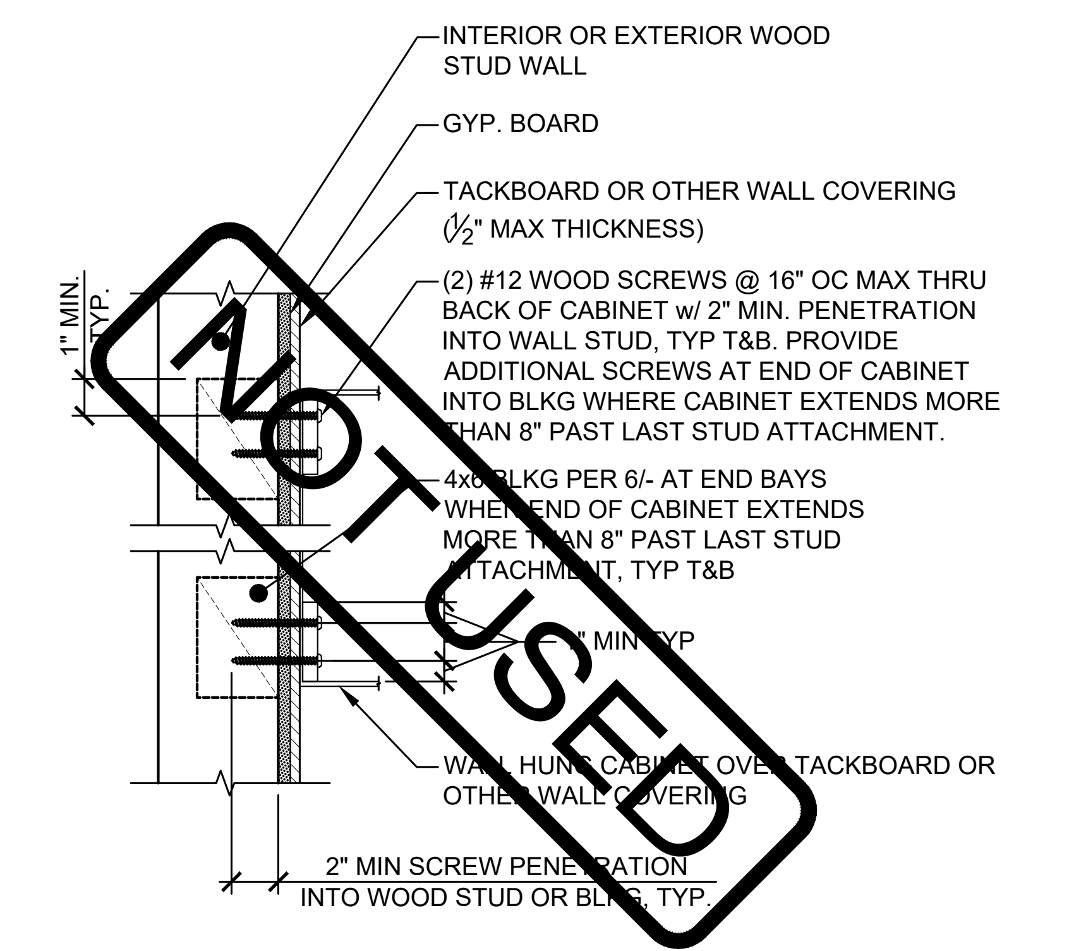

NOT USED
TO WOOD DECK:
2x4 PRESSURE TREATED BLOCK ATTACHED w/ #12x3" WOOD SCREWS @ 8" O.C.
TO CONCRETE FLOOR:
2X4 PRESSURE TREATED BLOCK ATTACHED TO CONCRETE FLOOR W/ HILTI X-C 72 P8 SHOT PINS (0.138"ØX2$^{13}/_{16}$") PER ICC ESR-1663 OR HILTI X-CP 72 P8 SHOT PINS (0.145"Ø X 2$^{13}/_{16}$") PER ICC ESR-2379 @ 8" O.C.
ATTACH CABINET TO BLOCKING w/ #12x1½" WOOD SCREWS @ 8" O.C.
F.F.
1¼" MIN.

FLOOR SUPPORTED CABINET ATTACHMENT @ METAL STUD WALLS
SCALE: 1-1/2" = 1'-0" | 11


NOT USED
RIGID INSULATION WHERE REQUIRED.
GYP. BOARD
INTERIOR OR EXTERIOR METAL STUD WALL
TACKBOARD OR OTHER WALL COVERING
BACK OF CABINET
#12 SDSTS @ 16" O.C. MAX THRU BACK OF CABINET TO WALL STUD OR BLOCKING.
METAL TRACK WALL BLOCKING PER 20B/S9.1
NOTE: BLOCKING IS ONLY REQUIRED IF CABINET DOES NOT CROSS A MIN. OF (2) STUDS.

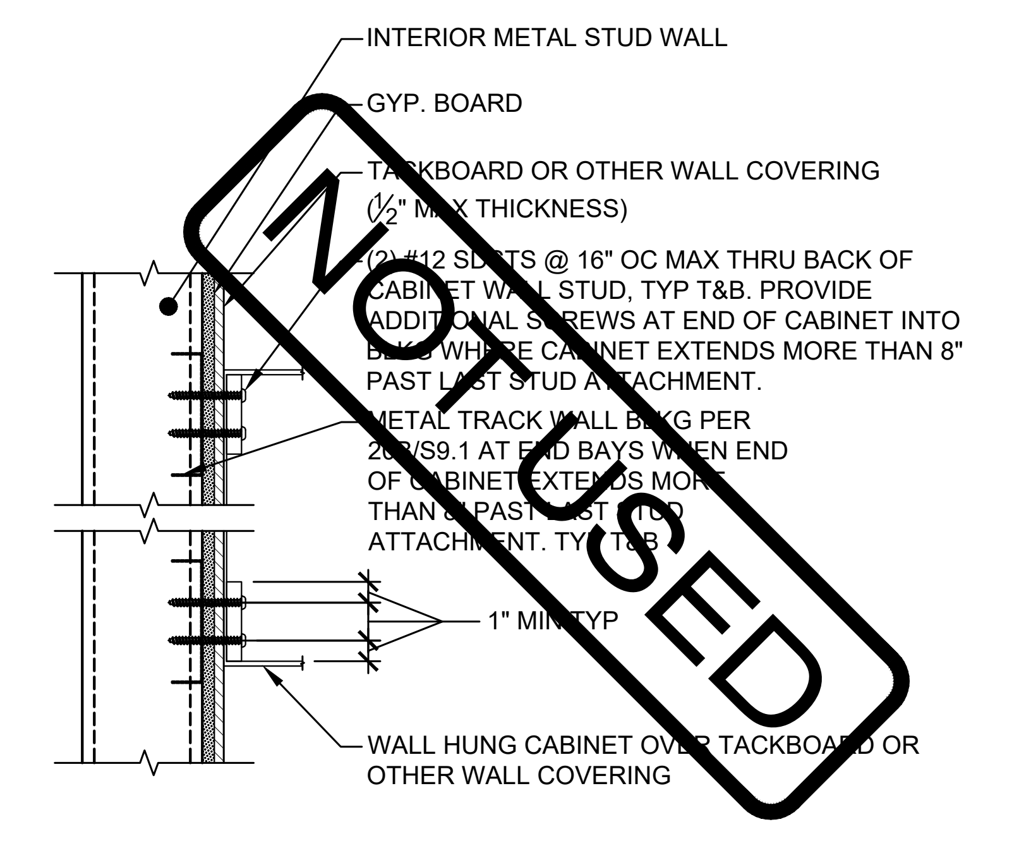
NOTE: SEE 9/- FOR WOOD STUD WALLS.

WALL HUNG CABINET ATTACHMENT @ WOOD STUD WALLS (INTERIOR & EXTERIOR WALLS)
SCALE: 1-1/2" = 1'-0" | 12


NOT USED
INTERIOR OR EXTERIOR WOOD STUD WALL
GYP. BOARD
TACKBOARD OR OTHER WALL COVERING (½" MAX THICKNESS)
(2) #12 WOOD SCREWS @ 16" OC MAX THRU BACK OF CABINET w/ 2" MIN. PENETRATION INTO WALL STUD, TYP T&B. PROVIDE ADDITIONAL SCREWS AT END OF CABINET INTO BLKG WHERE CABINET EXTENDS MORE THAN 8" PAST LAST STUD ATTACHMENT.
4x6 BLKG PER 6/- AT END BAYS WHEN END OF CABINET EXTENDS MORE THAN 8" PAST LAST STUD ATTACHMENT, TYP T&B
1" MIN. TYP.
1" MIN TYP
WALL HUNG CABINET OVER TACKBOARD OR OTHER WALL COVERING
2" MIN SCREW PENETRATION INTO WOOD STUD OR BLKG, TYP.

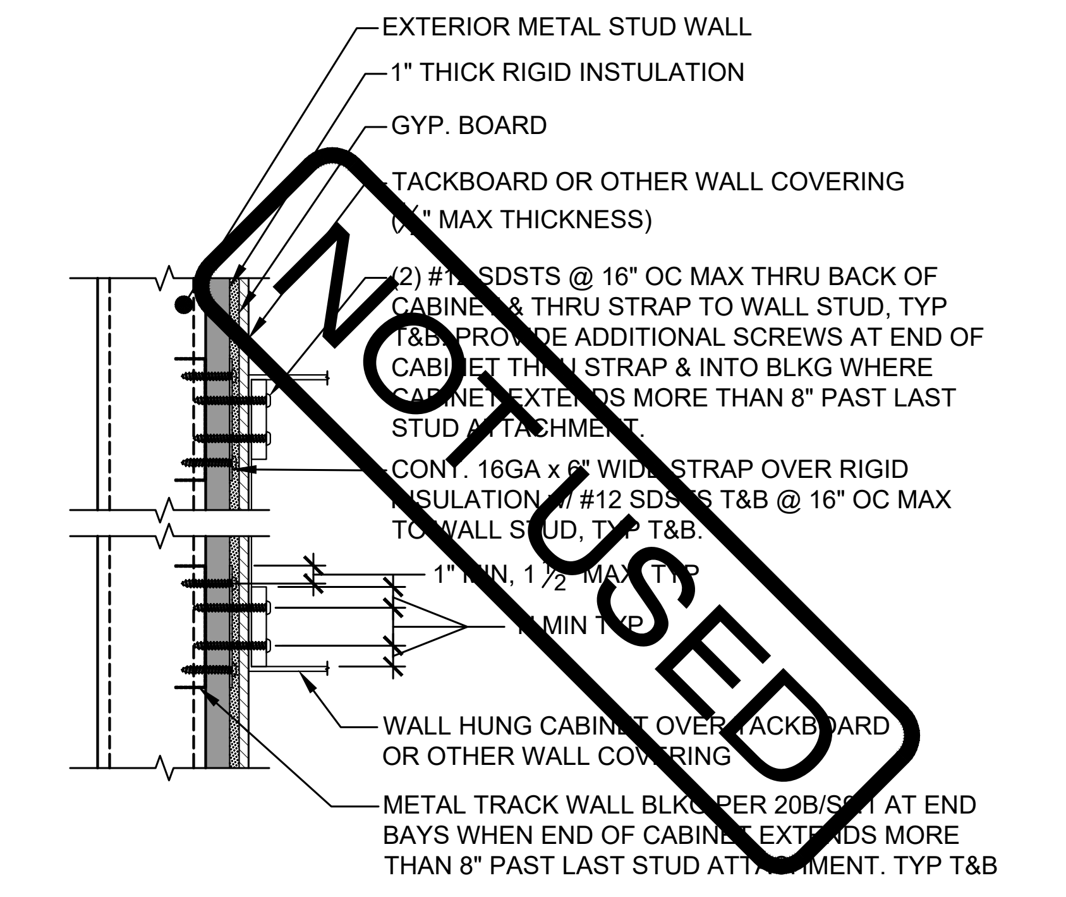
NOTE: SEE 13&14/- FOR METAL STUD WALLS.

WALL HUNG CABINET ATTACHMENT @ INTERIOR METAL STUD WALLS
SCALE: 1-1/2" = 1'-0" | 13


NOT USED
INTERIOR METAL STUD WALL
GYP. BOARD
TACKBOARD OR OTHER WALL COVERING (½" MAX THICKNESS)
(2) #12 SDSTS @ 16" OC MAX THRU BACK OF CABINET WALL STUD, TYP T&B. PROVIDE ADDITIONAL SCREWS AT END OF CABINET INTO BLKG WHERE CABINET EXTENDS MORE THAN 8" PAST LAST STUD ATTACHMENT.
METAL TRACK WALL BLKG PER 20B/S9.1 AT END BAYS WHEN END OF CABINET EXTENDS MORE THAN 8" PAST LAST STUD ATTACHMENT. TYP T&B
1" MIN TYP
WALL HUNG CABINET OVER TACKBOARD OR OTHER WALL COVERING

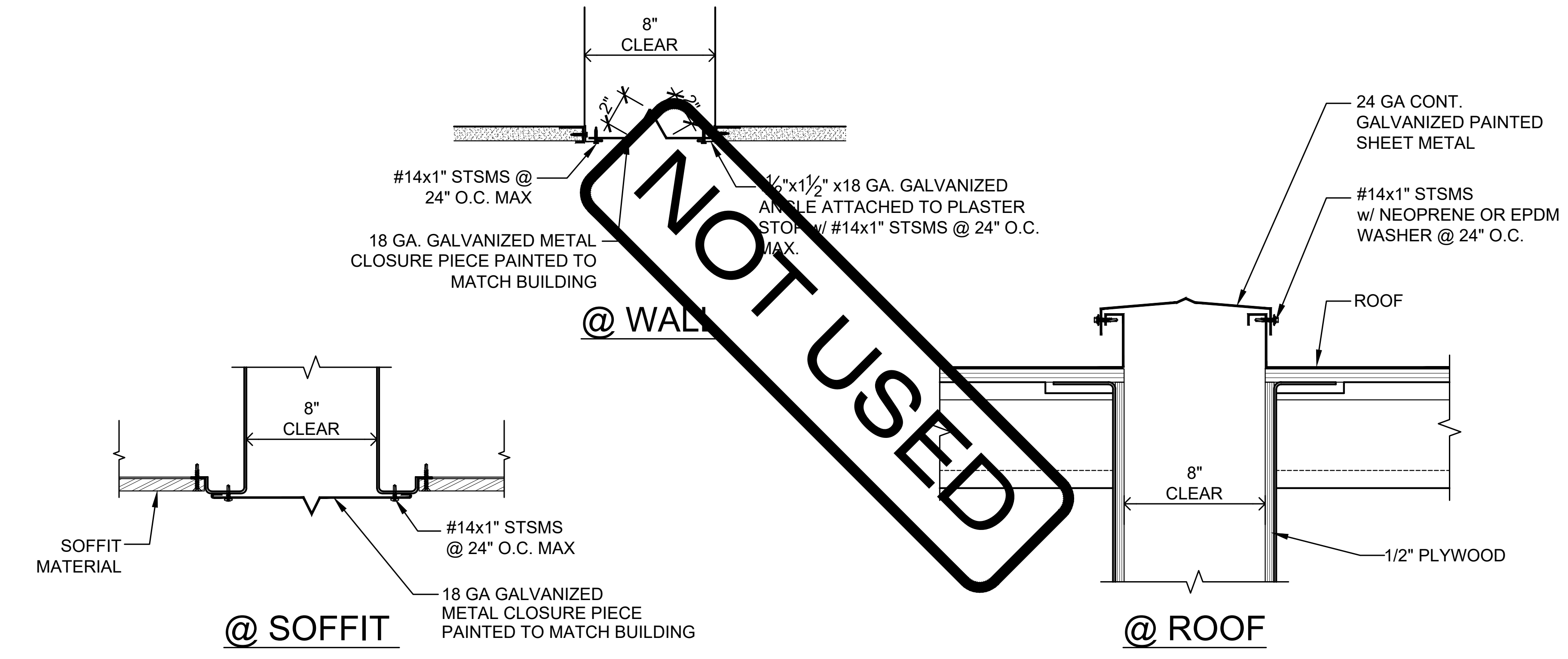
NOTE: SEE 14/- FOR EXTERIOR METAL STUD WALLS.
SEE 12/- FOR WOOD STUDS WALLS.

WALL HUNG CABINET ATTACHMENT @ EXTERIOR METAL STUD WALLS
SCALE: 1-1/2" = 1'-0" | 14


NOT USED
EXTERIOR METAL STUD WALL
1" THICK RIGID INSTULATION
GYP. BOARD
TACKBOARD OR OTHER WALL COVERING (½" MAX THICKNESS)
(2) #12 SDSTS @ 16" OC MAX THRU BACK OF CABINET & THRU STRAP TO WALL STUD, TYP T&B. PROVIDE ADDITIONAL SCREWS AT END OF CABINET THRU STRAP & INTO BLKG WHERE CABINET EXTENDS MORE THAN 8" PAST LAST STUD ATTACHMENT.
CONT. 16GA x 6" WIDE STRAP OVER RIGID INSULATION w/ #12 SDSTS T&B @ 16" OC MAX TO WALL STUD, TYP T&B.
1" MIN, 1 ½" MAX TYP
1" MIN TYP
WALL HUNG CABINET OVER TACKBOARD OR OTHER WALL COVERING
METAL TRACK WALL BLKG PER 20B/S9.1 AT END BAYS WHEN END OF CABINET EXTENDS MORE THAN 8" PAST LAST STUD ATTACHMENT. TYP T&B

NOTE: SEE 13/- FOR INTERIOR METAL STUD WALLS.
SEE 12/- FOR WOOD STUDS WALLS.

SEISMIC CLOSURE DETAILS
15


NOT USED
8" CLEAR
2"
#14x1" STSMS @ 24" O.C. MAX
18 GA. GALVANIZED METAL CLOSURE PIECE PAINTED TO MATCH BUILDING
½"x1½" x18 GA. GALVANIZED ANGLE ATTACHED TO PLASTER STOP w/ #14x1" STSMS @ 24" O.C. MAX.
@ WALL
8" CLEAR
SOFFIT MATERIAL
#14x1" STSMS @ 24" O.C. MAX
18 GA GALVANIZED METAL CLOSURE PIECE PAINTED TO MATCH BUILDING
@ SOFFIT
24 GA CONT. GALVANIZED PAINTED SHEET METAL
#14x1" STSMS w/ NEOPRENE OR EPDM WASHER @ 24" O.C.
ROOF
8" CLEAR
1/2" PLYWOOD
@ ROOF

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
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.

~~APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122042 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/15/2024~~

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RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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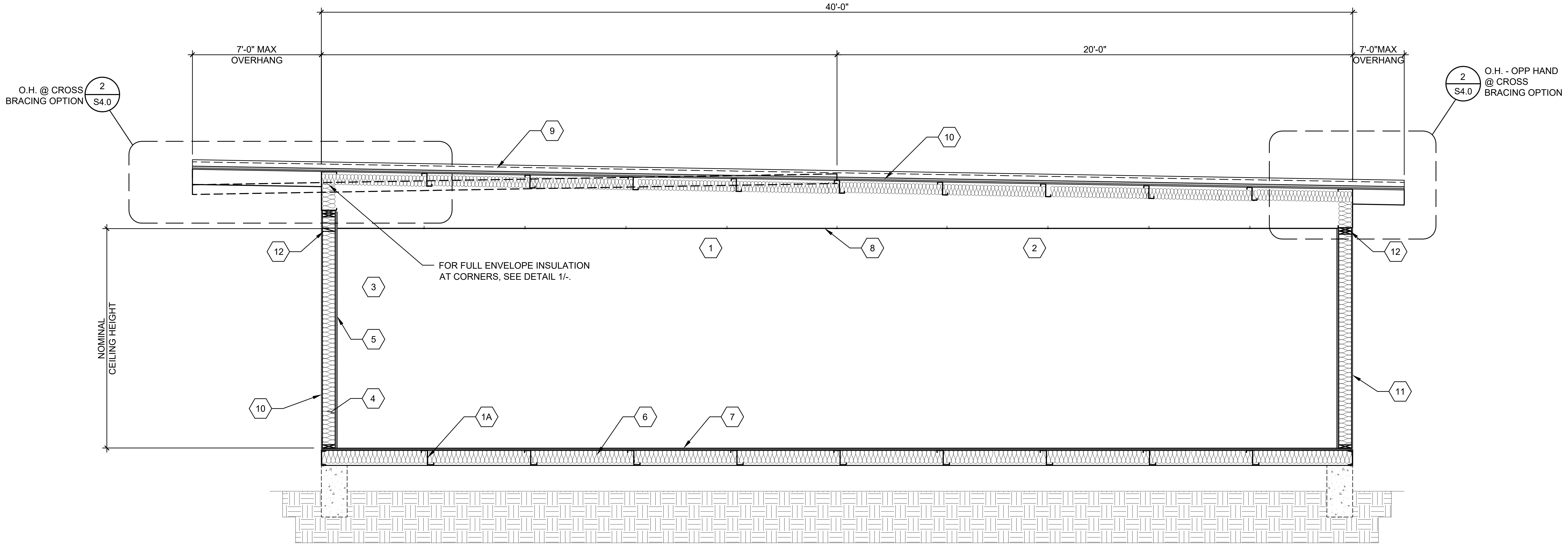
DRAWN BY:
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-XX

SHEET TITLE:
MISCELLANEOUS ARCHITECTURAL DETAILS

SHEET NUMBER:
A7.1


40'-0"
7'-0" MAX OVERHANG
20'-0"
7'-0"MAX OVERHANG
O.H. @ CROSS BRACING OPTION
2 S4.0
O.H. - OPP HAND @ CROSS BRACING OPTION
2 S4.0
9
10
12
FOR FULL ENVELOPE INSULATION AT CORNERS, SEE DETAIL 1/-.
1
8
2
12
3
5
NOMINAL CEILING HEIGHT
10
4
1A
6
7
11

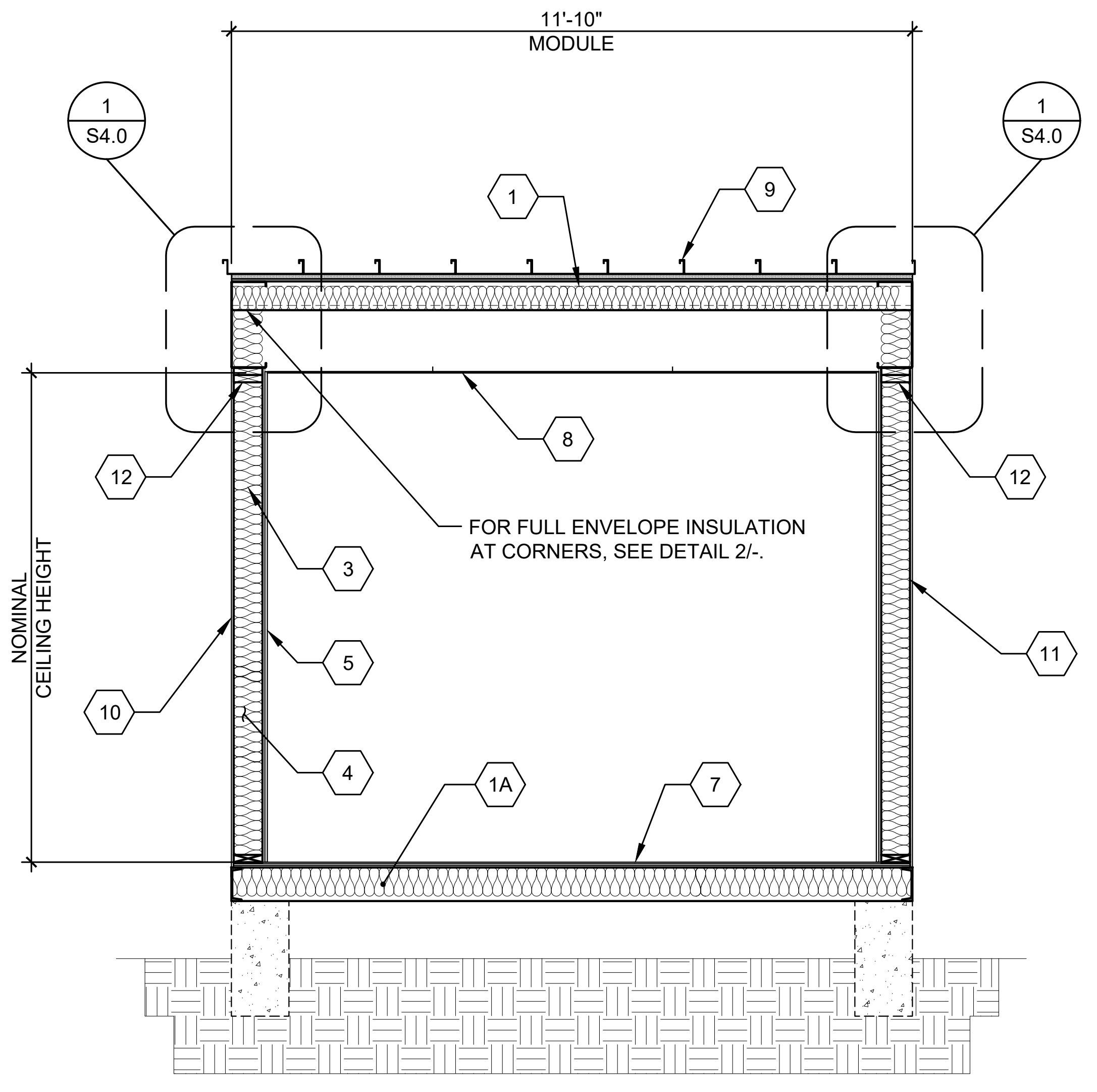
TYP. LONGITUDINAL SECTION - MONO PITCH

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

- 1 ROOF PURLINS PER ROOF FRAMING PLAN
- 1A FLOOR JOISTS PER FLOOR FRAMING PLAN
- 2 BATT ROOF INSULATION PER INSULATION SCHEDULE ON SHEET M1.7
- 3 WALL FRAMING PER SHEETS S8.0 ~~OR S9.0~~
- 4 WALL INSULATION PER INSULATION SCHEDULE ON SHEET M1.7
- 5 VINYL FABRIC OVER TACKABLE BRACING PANELS
- 6 FLOOR INSULATION PER INSULATION SCHEDULE ON SHEET M1.7
- 7 PLYWOOD FLOOR PER SHEET S3.0 ~~OR CONCRETE FLOOR PER SHEETS S3.1 - S3.3~~
- 8 SUSPENDED T-BAR CEILING PER M1.0
- 9 FINISHED ROOFING PER ROOF PLAN & ROOF FRAMING PLAN
- 10 RIGID ROOF INSULATION PER INSULATION SCHEDULES ON SHEET M1.7 ~~OVER ROOF SHEATHING (S4.1)~~ ~~OR~~ STEEL CROSS BRACING WITHOUT RIGID ROOF INSULATION (S4.0)
- 11 EXTERIOR WALL FINISH PER EXTERIOR ELEVATIONS ~~PROVIDE R-5 RIGID INSULATION AT METAL STUD WALLS~~
- 12 FIRE BLOCKING @ CEILING LEVEL PER CBC 718.2
- 13 ~~RIGID INSULATION @ CONCRETE FLOORS - REFER TO INSULATION SCHEDULES IN SHEET M1.7~~

KEY NOTES

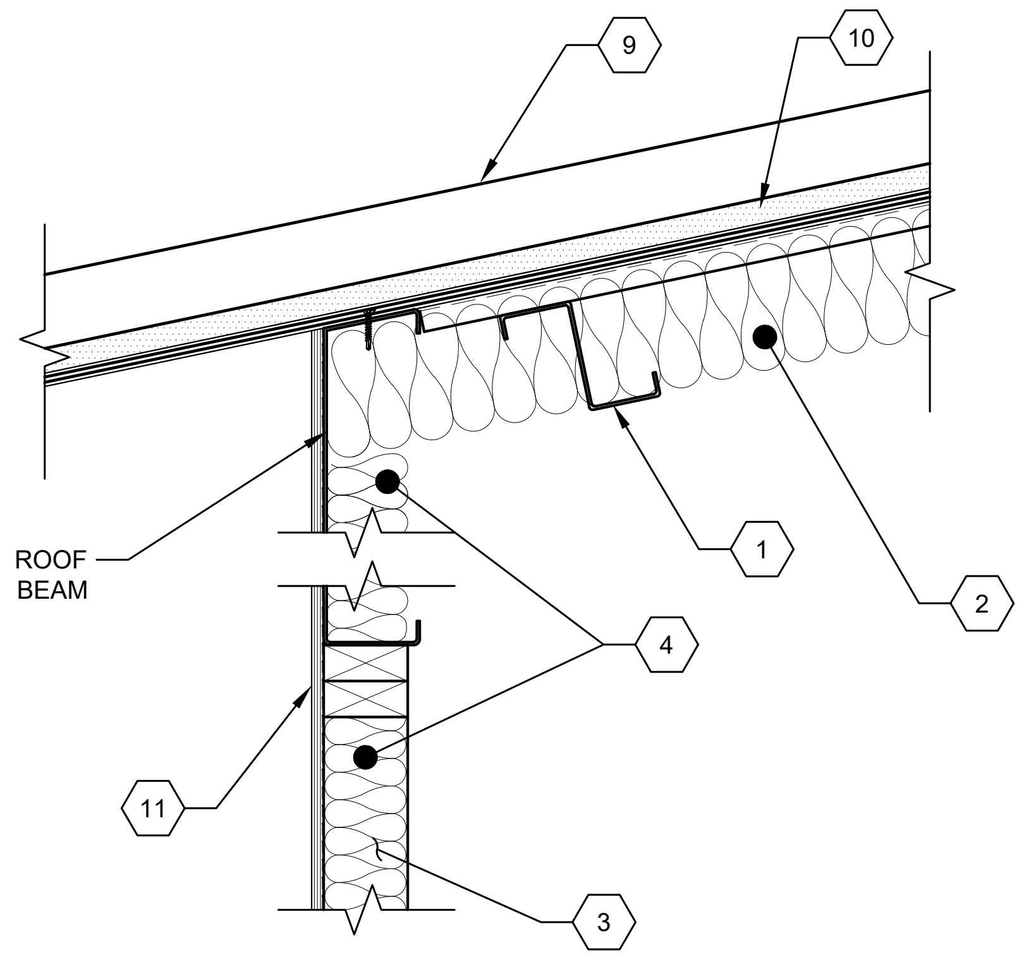
NOT USED



TYP. TRANSVERSE SECTION - MONO PITCH

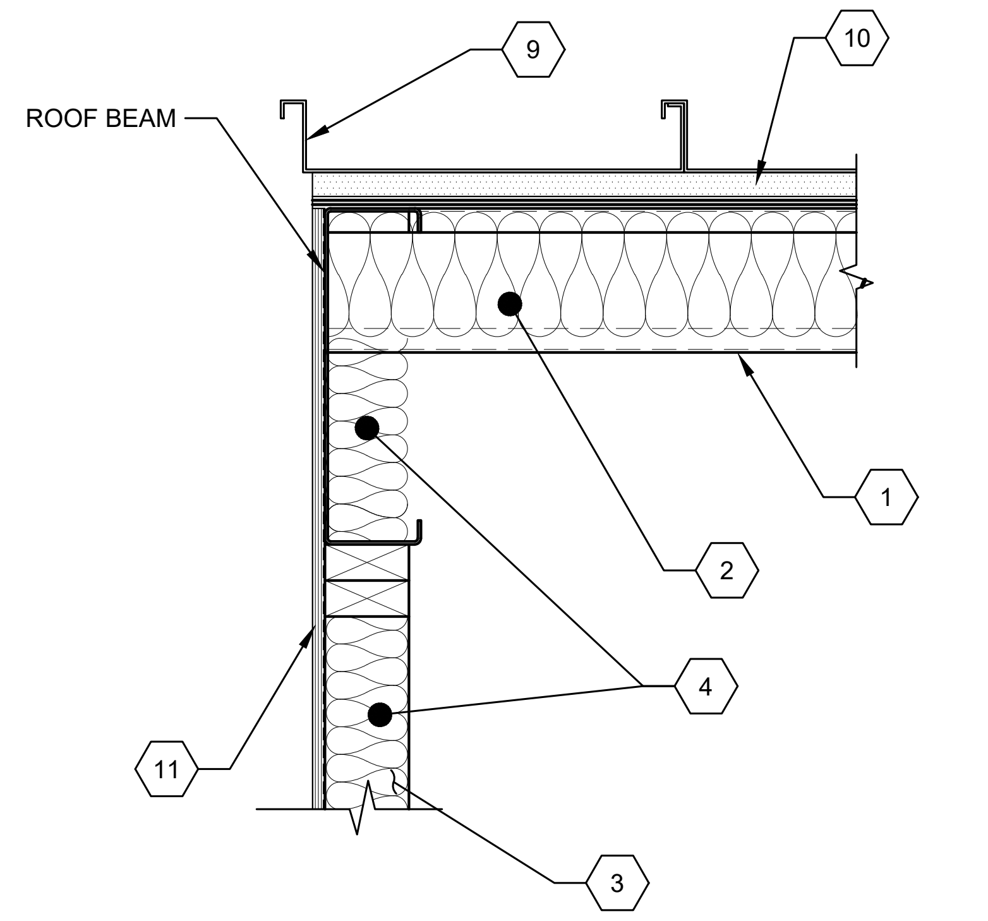
SCALE: 3/8"=1'-0" B

SCALE: NTS 1



INSULATION CORNER DET.

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



INSULATION CORNER DET.

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

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

SHEET TITLE:
TYPICAL LONGITUDINAL
AND TRANSVERSE
FRAME SECTIONS

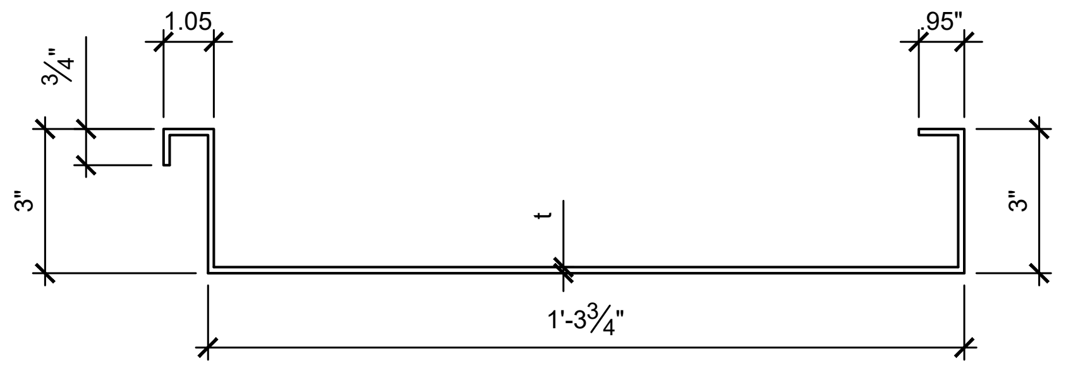
SHEET NUMBER:
A7.3

20GA ROOF PAN PROPERTIES 2

1504.4.2 STRUCTURAL METAL PANEL ROOF SYSTEMS:
WHERE THE METAL ROOF PANEL FUNCTIONS AS THE ROOF DECK AND ROOF COVERING AND IT PROVIDES BOTH WEATHER PROTECTION AND SUPPORT FOR LOADS, THE STRUCTURAL METAL PANEL ROOF SYSTEM SHALL COMPLY WITH THIS SECTION. STRUCTURAL STANDING-SEAM METAL PANEL ROOF SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH ASTM E1592 OR FM 4474. STRUCTURAL THROUGH FASTENED METAL PANEL ROOF SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH ASTM E1592, FM 4474 OR UL 580.

EXCEPTIONS:
1. METAL ROOFS CONSTRUCTED OF COLD-FORMED STEEL SHALL BE PERMITTED TO BE DESIGNED AND TESTED IN ACCORDANCE WITH THE APPLICABLE REFERENCED STRUCTURAL DESIGN STANDARD IN SECTION 2210.1.

TESTING REPORT: TWINNING TEST REPORT #226045.R1 UL 1897



ASTM A1011 SS, GRADE 36
Fy = 36 ksi

w/ GALVANIZATION
t=0.0356 IN. MIN.

w/0 GALVANIZATION
t=0.0329 IN. MIN.
(0.035 IN. DESIGN)

EFFECTIVE SECTION PROPERTIES

$S_x^+(t)$ = 0.364 IN.^{3}
$S_x^+(b)$ = 1.371 IN.^{3}
I_x^+ = 0.863 IN.^{4}

$S_x^-(t)$ = 0.330 IN.^{3}
$S_x^-(b)$ = 0.306 IN.^{3}
I_x^- = 0.476 IN.
Ae = 0.259 IN.^{2}

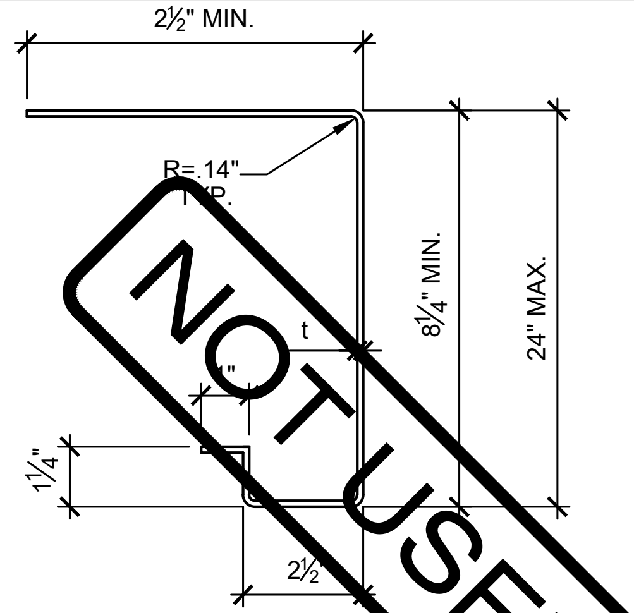
GROSS SECTION PROPERTIES

A = 0.844 IN^2
Sx(t)= 0.418 IN^3
Sx(b)= 1.412 IN^3
Ix = 0.968 IN^4

20GA ROOF PAN MAY BE USED @ ROOFS WITH SHEATHING (S4.1) OR WITHOUT SHEATHING (S4.0)

SOFFIT BEAM PROPERTIES 3

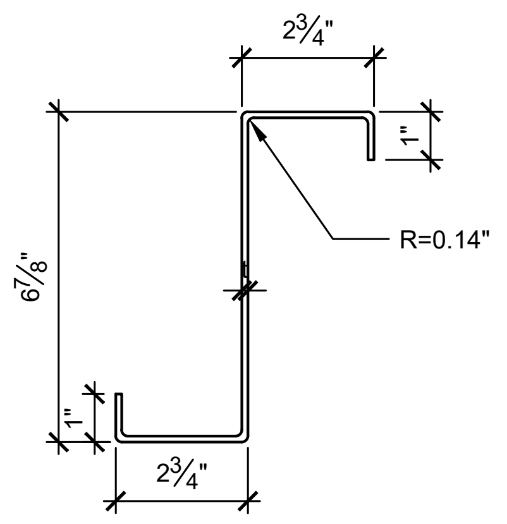
NOT USED



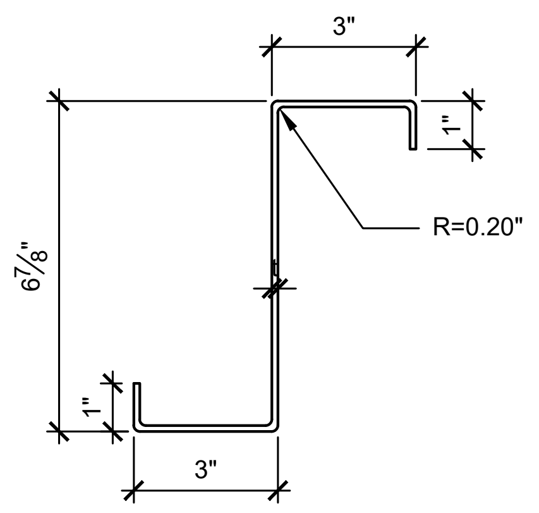
8 1/4" MIN. * x2 1/2"x14ga
SOFFIT BEAM
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 0.97 IN^2
S_x^- = 1.78 IN^3
S_x^+ = 1.31 IN^3
Ix = 6.87 IN^4
t = 0.068 IN MIN.
(0.0713 IN DESIGN)

*- NOTE:
BEAM TO BE 8 1/4" MIN. DEEP TO MATCH OUTRIGGER BEAM. PROPERTIES & DESIGN BASED ON 7" MIN. MEMBER.

LIGHT GAUGE FLOOR JOIST PROPERTIES 5



6 7/8"x2 3/4"x14ga
FLOOR JOIST
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 0.98 IN^2
Sx = 2.10 IN^3
Ix = 7.22 IN^4
t = 0.068 IN MIN.
(0.0713 IN DESIGN)



6 7/8"x3"x12ga
FLOOR JOIST
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 1.43 IN^2
Sx = 3.06 IN^3
Ix = 10.54 IN^4
t = 0.097 IN MIN.
(0.1017 IN DESIGN)

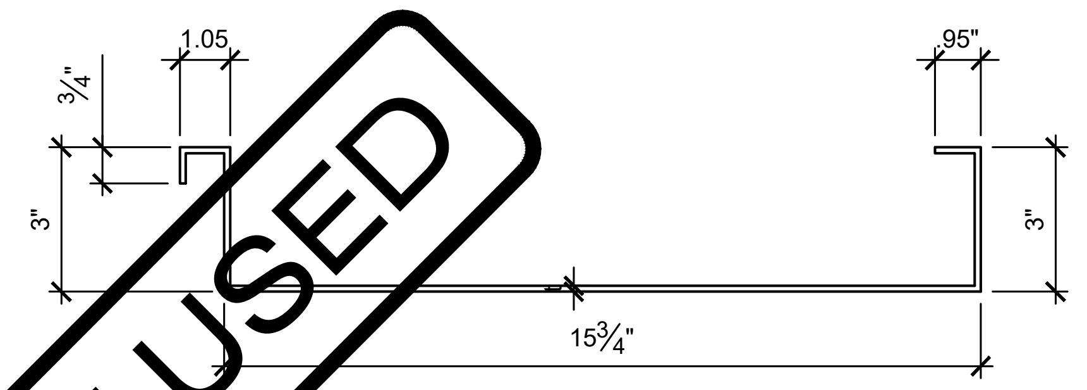
22GA ROOF PAN PROPERTIES 7

1504.4.2 STRUCTURAL METAL PANEL ROOF SYSTEMS:
WHERE THE METAL ROOF PANEL FUNCTIONS AS THE ROOF DECK AND ROOF COVERING AND IT PROVIDES BOTH WEATHER PROTECTION AND SUPPORT FOR LOADS, THE STRUCTURAL METAL PANEL ROOF SYSTEM SHALL COMPLY WITH THIS SECTION. STRUCTURAL STANDING-SEAM METAL PANEL ROOF SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH ASTM E1592 OR FM 4474. STRUCTURAL THROUGH FASTENED METAL PANEL ROOF SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH ASTM E1592, FM 4474 OR UL 580.

EXCEPTIONS:
1. METAL ROOFS CONSTRUCTED OF COLD-FORMED STEEL SHALL BE PERMITTED TO BE DESIGNED AND TESTED IN ACCORDANCE WITH THE APPLICABLE REFERENCED STRUCTURAL DESIGN STANDARD IN SECTION 2210.1.

TESTING REPORT: TWINNING TEST REPORT #226045.R1 UL 1897

NOT USED



ASTM A1011 SS, GRADE 36 (Fy = 36 ksi)
OR ASTM A653 SS, GRADE 37 (Fy = 37 ksi)

w/ GALVANIZATION
t=[illegible] MIN.

w/o GALVANIZATION
t=0.0269 IN. MIN.
(0.0[illegible] IN. DESIGN)

EFFECTIVE SECTION PROPERTIES

$S_x^+(t)$ = 0.253 IN.^{3}
$S_x^+(b)$ = 1.109 IN.^{3}
I_x^+ = 0.618 IN.^{4}

$S_x^-(t)$ = 0.260 IN.^{3}
$S_x^-(b)$ = 0.226 IN.^{3}
I_x^- = 0.363 IN.
Ae = 0.180 IN.^{2}

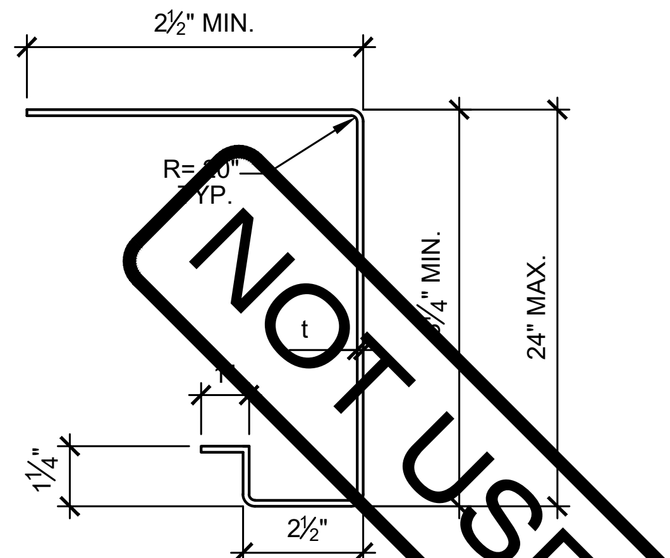
GROSS SECTION PROPERTIES

A = 0.682 IN^2
Sx(t)= 0.338 IN^3
Sx(b)= 1.148 IN^3
Ix = 0.784 IN^4

22GA ROOF PAN MAY BE ONLY USED @ ROOFS WITH SHEATHING (S4.1)

OUTRIGGER BEAM PROPERTIES 8

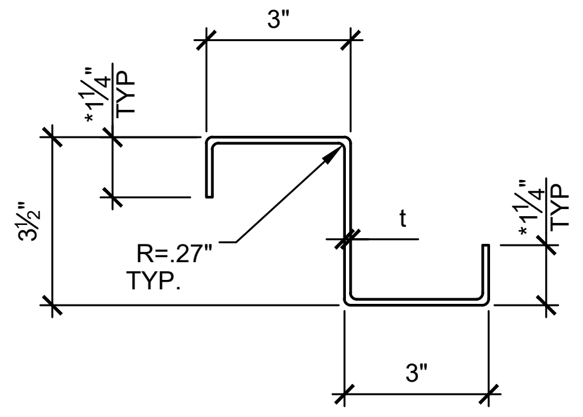
NOT USED



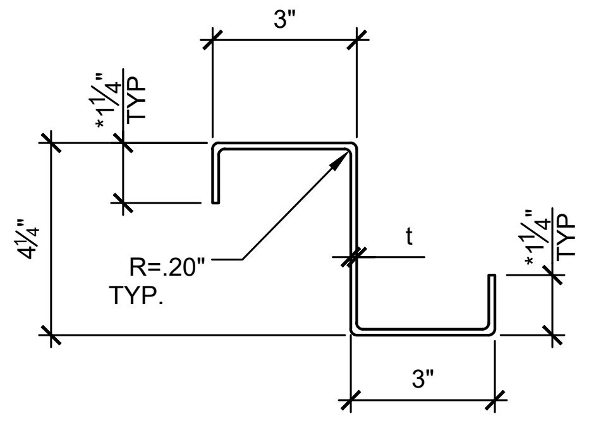
8 1/4" MIN.x2 1/2"x12ga
SOFFIT OUTRIGGER BEAM
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 1.4785 IN^2
S_x^- = 3.0614 IN^3
S_x^+ = 2.5100 IN^3
Ix = 13.642 IN^4
t = 0.097 IN MIN.
(0.1017 IN DESIGN)

LIGHT GAUGE ROOF PURLIN PROPERTIES (FOR USE W/ ROOF FRAMING PLANS S4.0 & S4.1) 10

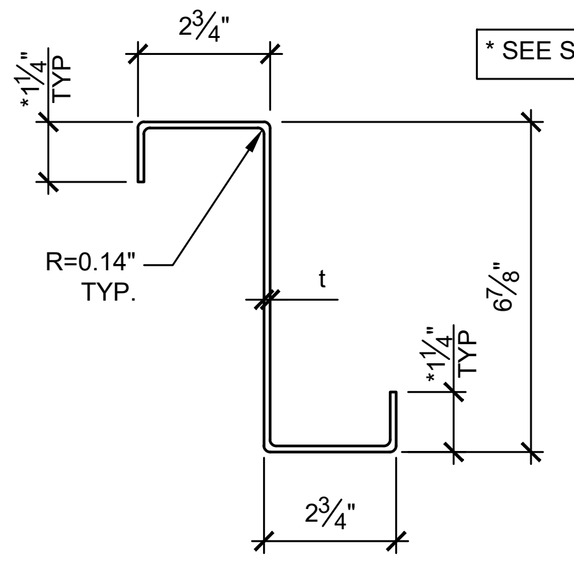
* SEE SHEET NOTE #4



3 1/2"x3"x10ga
ROOF PURLIN
ASTM A1011 SS, GRADE 50
Fy = 50 ksi
A = 1.31 IN^2
Sx = 1.51 IN^3
Ix = 2.64 IN^4
t = 0.1278 IN MIN.
(0.1345 IN DESIGN)

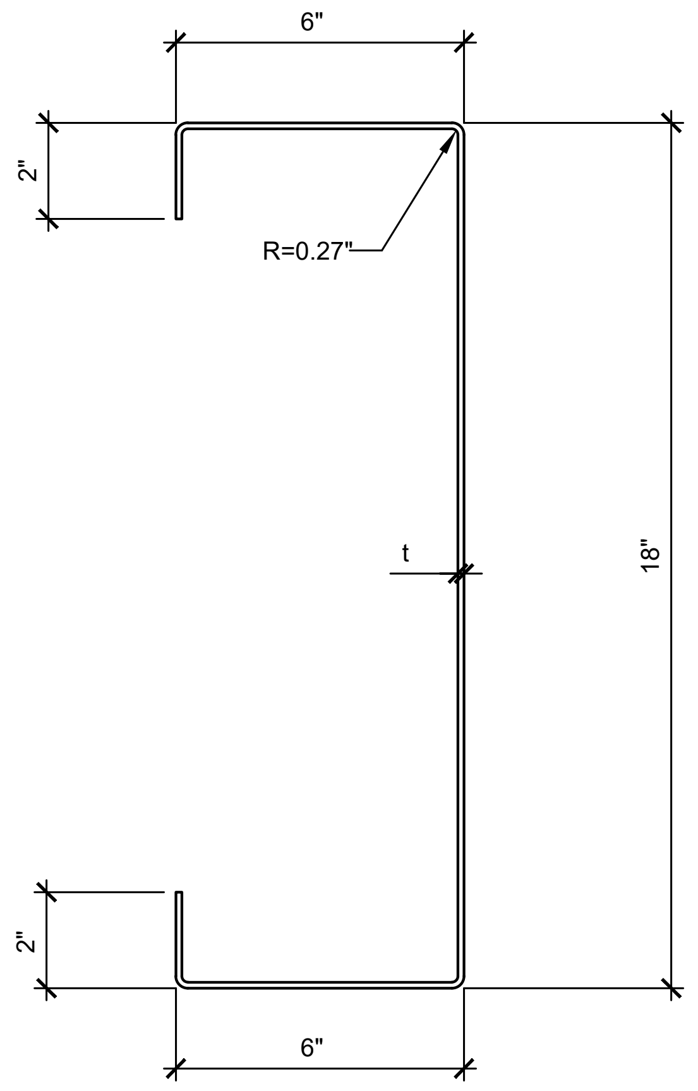


4 1/4"x3"x12ga
ROOF PURLIN
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 1.16 IN^2
Sx = 1.63 IN^3
Ix = 3.46 IN^4
t = 0.097 IN MIN.
(0.1017 IN DESIGN)



6 7/8"x2 3/4"x14ga
ROOF PURLIN
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 0.98 IN^2
Sx = 2.10 IN^3
Ix = 7.22 IN^4
t = 0.068 IN MIN.
(0.0713 IN DESIGN)

ROOF BEAM PROPERTIES 18



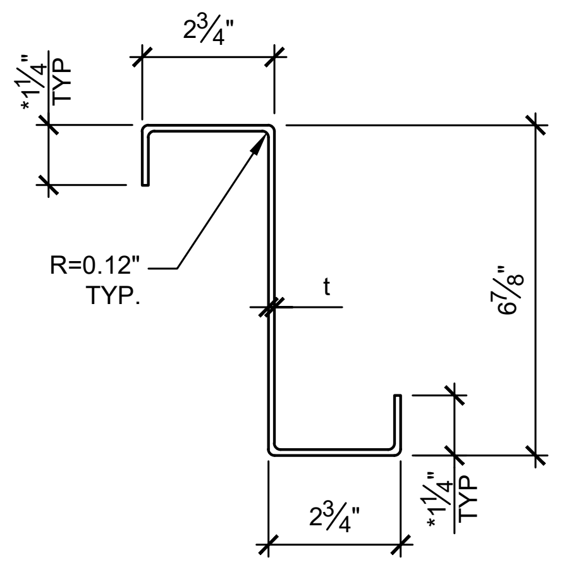
10 GA. LONGITUDINAL BEAM

ASTM = A1011 SS
GRADE = 50
Fy = 50ksi
t = 0.1278 IN. MIN.
(0.1345 IN. DESIGN)

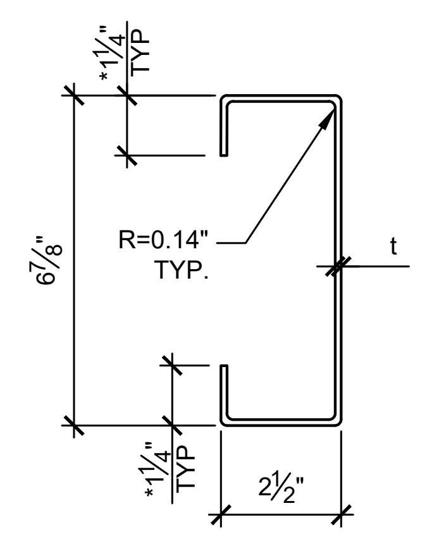
BEAM DEPTH	18"
A (IN^2)	4.15
S_X MIN. (IN^3)	22.39
I_X MIN. (IN^4)	201.54

LIGHT GAUGE ROOF PURLIN PROPERTIES (FOR USE W/ ROOF FRAMING PLAN S4.1 ONLY) 15

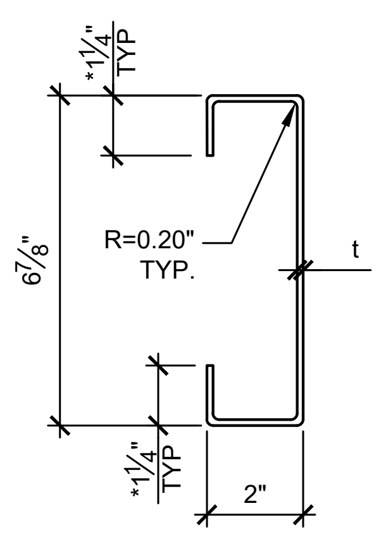
* SEE SHEET NOTE #4



6 7/8"x2 3/4"x16ga 'Z'
TYPICAL ROOF PURLIN
ASTM A1011 SS, GRADE 50
Fy = 50 ksi
A = 0.79 IN^2
Sx = 1.69 IN^3
Ix = 5.82 IN^4
t = 0.0538 IN MIN.
(0.0566 IN DESIGN)



6 7/8"x2 1/2"x14ga 'C'
ALTERNATE ROOF PURLIN
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 0.95 IN^2
Sx = 1.98 IN^3
Ix = 6.81 IN^4
t = 0.0677 IN MIN.
(0.0713 IN DESIGN)



6 7/8"x2"x12ga 'C'
ALTERNATE ROOF PURLIN
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 1.22 IN^2
Sx = 2.39 IN^3
Ix = 8.20 IN^4
t = 0.0966 IN MIN.
(0.1017 IN DESIGN)

NOT USED 19

SHEET NOTES

1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0 THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
2. UNLESS NOTED OTHERWISE, ALL SECTION PROPERTIES ARE GROSS SECTION PROPERTIES.
3. LIGHT GAUGE STRUCTURAL MEMBERS TO BE FABRICATED FROM HOT ROLLED SHEETS WITH RUST INHIBITIVE COATING. SEE SHEET N2.0, "LIGHT GAUGE METAL STUDS & COLD FORMED STEEL", FOR ADDITIONAL INFORMATION.
4. PURLIN DESIGNS & PURLIN PROPERTIES USE 1" STIFFENING LIPS T&B, PURLIN STIFFENING LIPS HAVE BEEN INCREASED FROM 1" TO 1 1/4" T&B TO ACCOMMODATE CADDY CLIP FASTENERS FOR CEILING SUPPORT PER 12/M1.4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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

FORM

SITE SPECIFIC PROJECT NAME
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~~APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122042 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRISCH
No. S3380
STRUCTURAL
STATE OF CALIFORNIA
RST#22214
02-08-24

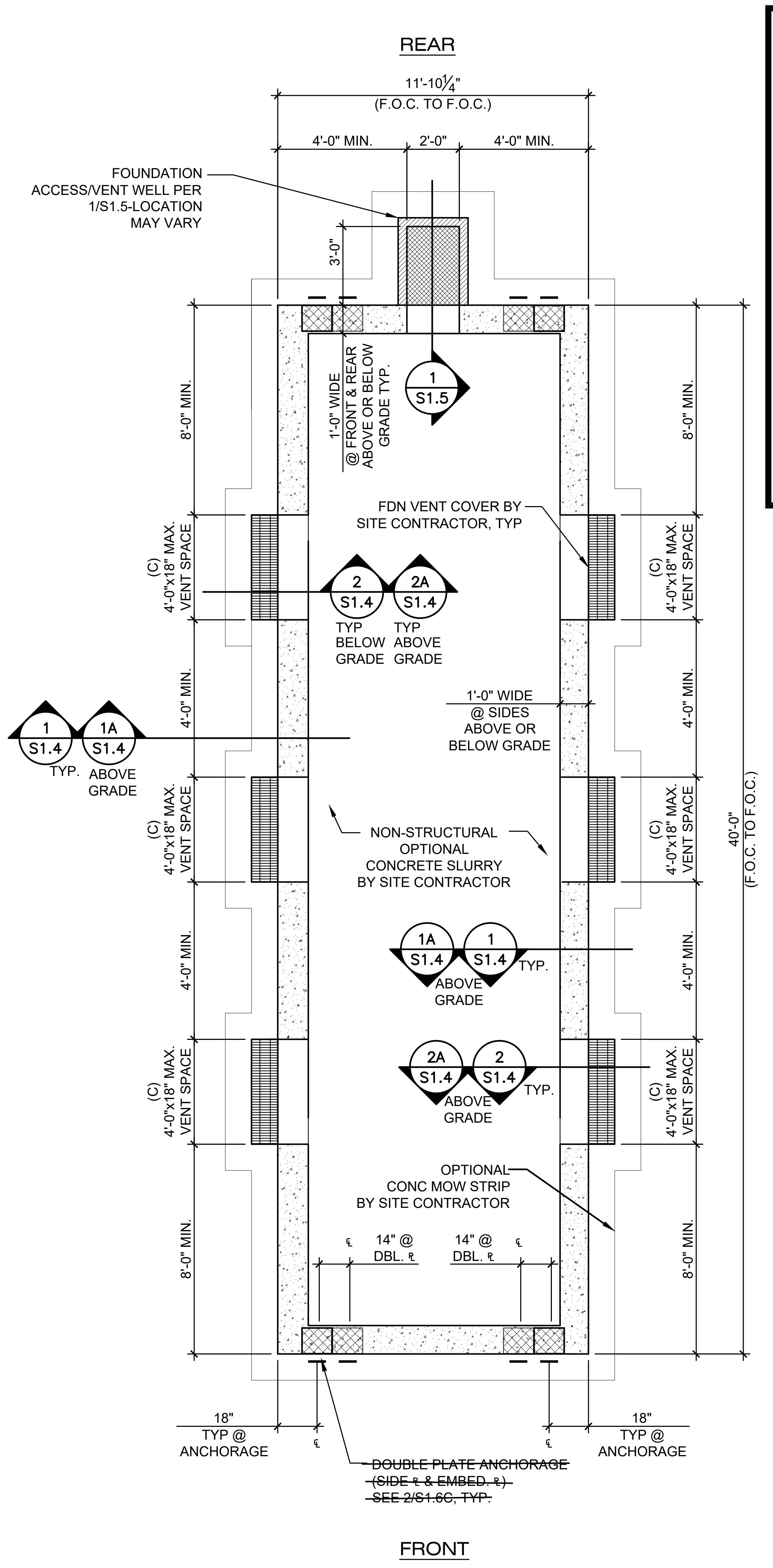
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS
△1
△2
△3
△4

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

SHEET TITLE:
STEEL
MEMBER
PROPERTIES

SHEET NUMBER:
S0.0


REAR
11'-10¼"
(F.O.C. TO F.O.C.)
4'-0" MIN.
2'-0"
4'-0" MIN.
FOUNDATION ACCESS/VENT WELL PER 1/S1.5-LOCATION MAY VARY
3'-0"
1'-0" WIDE @ FRONT & REAR ABOVE OR BELOW GRADE TYP.
1 S1.5
8'-0" MIN.
FDN VENT COVER BY SITE CONTRACTOR, TYP
(C) 4'-0"x18" MAX. VENT SPACE
2 S1.4
2A S1.4
TYP BELOW GRADE
TYP ABOVE GRADE
4'-0" MIN.
1 S1.4
1A S1.4
TYP. ABOVE GRADE
1'-0" WIDE @ SIDES ABOVE OR BELOW GRADE
40'-0" (F.O.C. TO F.O.C.)
NON-STRUCTURAL OPTIONAL CONCRETE SLURRY BY SITE CONTRACTOR
1A S1.4
1 S1.4
TYP.
ABOVE GRADE
2A S1.4
2 S1.4
TYP.
ABOVE GRADE
OPTIONAL CONC MOW STRIP BY SITE CONTRACTOR
14" @ DBL. ℄
14" @ DBL. ℄
18" TYP @ ANCHORAGE
~~DOUBLE PLATE ANCHORAGE (SIDE ℄ & EMBED. ℄) SEE 2/S1.6C, TYP.~~
18" TYP @ ANCHORAGE
FRONT

CONCRETE FOUNDATION PLAN (WOOD FLOOR) ☒
100 PSF MAX FLOOR LIVE LOAD

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

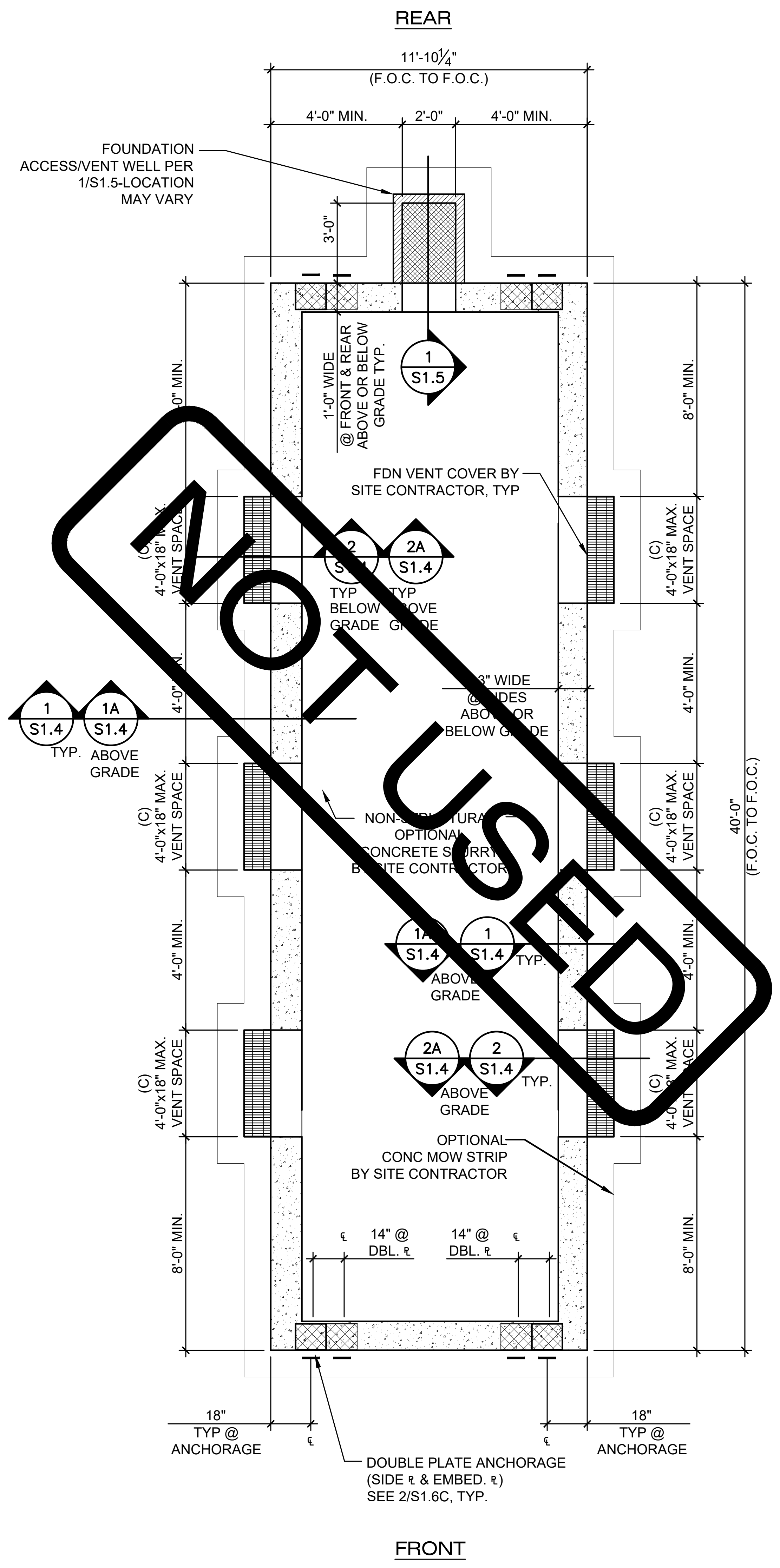
In the event the foundation design and engineering is by AMS, and installation is by others. AMS is not responsible for quality of installation, inspections, nor acceptance of foundation. Any review performed by AMS shall be considered a courtesy to assist with the overall project success and does not remove the contractor's responsibility to comply with plans and specifications. Contractor performing foundation installation is responsible to ensure the foundation is completed per plans, specifications, and meets tolerances for modular buildings as described below.

Crawlspace to be 18" clear minimum from top of stem wall to top of concrete slurry. Concrete slurry (If applicable) to be min 2" thick, and sloped to underfloor drainage (Drainage to comply with IR 16-1)
Top of stem wall cannot be more than 1/8" out of plane, plumb and level (horizontal, vertical and square, diagonal) over the overall length and width of the foundation footprint.
AMS will not provide supervision nor sign off on work performed by others.

In the event engineering is required to accommodate error's or omission's, rework, or additional coordination/engineering all expenses shall be reimbursed to AMS.

SUBCONTRACTOR PERFORMING CONCRETE FOUNDATION INSTALLATION MUST MEET THE FOLLOWING QUALIFICATIONS:

1. A Minimum of 5 years continuous and current experience installing modular (Pit Set) foundations.
2. A Minimum of 5 years continuous and current experience with public works projects specific to the education sector.
3. A minimum of 5 years continuous and current experience working on Division of State Architect (D.S.A.) approved and inspected projects.


REAR
11'-10¼"
(F.O.C. TO F.O.C.)
4'-0" MIN.
2'-0"
4'-0" MIN.
FOUNDATION ACCESS/VENT WELL PER 1/S1.5-LOCATION MAY VARY
3'-0"
1'-0" WIDE @ FRONT & REAR ABOVE OR BELOW GRADE TYP.
1 S1.5
8'-0" MIN.
FDN VENT COVER BY SITE CONTRACTOR, TYP
(C) 4'-0"x18" MAX. VENT SPACE
NOT USED
TYP BELOW GRADE
TYP ABOVE GRADE
1 S1.4
1A S1.4
TYP. ABOVE GRADE
40'-0" (F.O.C. TO F.O.C.)
1 S1.4
TYP.
ABOVE GRADE
2A S1.4
2 S1.4
TYP.
ABOVE GRADE
OPTIONAL CONC MOW STRIP BY SITE CONTRACTOR
14" @ DBL. ℄
14" @ DBL. ℄
18" TYP @ ANCHORAGE
DOUBLE PLATE ANCHORAGE (SIDE ℄ & EMBED. ℄) SEE 2/S1.6C, TYP.
18" TYP @ ANCHORAGE
FRONT

CONCRETE FOUNDATION PLAN (CONCRETE FLOOR) ☐
100 PSF MAX FLOOR LIVE LOAD

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

1. CONCRETE MIXTURES:
   - A. ULTIMATE 28-DAY CONCRETE COMPRESSIVE STRENGTH (f'c) SHALL BE PER SHEET N1.0A
   - B. PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-19, SECTION 26.4.3.
   - C. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-19, SECTION 26.4.4.
   - D. CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1.
   - E. SEE SHEET N1.0 FOR ADDITIONAL CONCRETE NOTES.
2. BUILDINGS MAY BE SET ON CONCRETE FOUNDATIONS THAT HAVE REACHED A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 2,500 PSI. PRIOR TO THE SETTING OF THE MODULAR BUILDING ON CONCRETE FOUNDATIONS THAT HAVE NOT YET CURED 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE, THE FOUNDATION CONTRACTOR SHALL
   - A. HAVE THE PROJECT TESTING LAB PERFORM CONCRETE CYLINDER COMPRESSION TESTS OF THE FOUNDATION CONCRETE USED AT THE SITE,
   - B. FURNISH THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITH THE CONCRETE TEST REPORTS VERIFYING THAT THE FOUNDATION CONCRETE HAS REACHED THE MINIMUM STRENGTH AS SPECIFIED ABOVE, AND
   - C. NOTIFY THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THEIR INTENT TO SET THE MODULAR BUILDING PRIOR TO 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE.
3. REINFORCING STEEL SHALL BE 60,000 PSI MINIMUM, PER ASTM A615. THE REINFORCING BARS SHALL BE TESTED PER TITLE 24, PART 2, SECTION 1910A.2. TEST OF REINFORCING BARS MAY BE WAIVED PROVIDED CERTIFIED MILL TEST REPORTS ARE PROVIDED FOR EACH SHIPMENT OF SUCH REINFORCEMENT.
4. DESIGN SOIL BEARING CAPACITY: 1500 PSF.
   (1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED FOR WIND & SEISMIC LOAD COMBINATIONS UNLESS USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1605A.3.2)
5. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL VERIFY THE NET AREA OF THE UNDER-FLOOR VENTING IS EQUAL TO OR LARGER THAN THE VENT AREA REQUIRED (AS SHOWN ON THE ADJACENT TABLE).

NOMINAL BLDG SIZE (FT)	TOTAL # OF 12' WIDE MODULES	"A" TOTAL # OF CENTER MODULES	"B" TOTAL FNDN WIDTH^1	TOTAL NOMINAL FLOOR AREA (FT^2)	NET FREE VENT AREA REQ'D^3 (FT^2)	IF 4'x12" VENTS ARE USED SOLELY		IF 4'x18" VENTS ARE USED SOLELY	
						"C" MIN. TOTAL VENTS REQ'D^3	NET FREE VENT AREA PROVIDED^3 (FT^2)	"C" MIN. TOTAL VENTS REQ'D^3	NET FREE VENT AREA PROVIDED^3 (FT^2)
☒ 12'x40'	1	0	11'-10¼"	480	3.2	2	5.8	2	8.8

NOTES:

TOTAL FOUNDATION WIDTH INCLUDES ¼" PER MODULE CONSTRUCTION TOLERANCE.

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

$NFA_{REQUIRED} = A_{FLOOR} / 150$ $NFA_{PROVIDED} > NFA_{REQUIRED}$ $A_{VENT,GROSS} \times 73\% \times (\# \text{ OF VENTS}) > NFA_{REQUIRED}$

4. REQUIRED VENTING MAY BE ACHIEVED BY A COMBINATION OF ACCESS VENT(S) AND VENTS OF DIFFERENT SIZES BASED ON THE VALUES LISTED BELOW.

4'x12" VENTS x 0.73 x (# OF VENTS) = 2.92 FT^2 x (# OF VENTS)

4'x18" VENTS x 0.73 x (# OF VENTS) = 4.38 FT^2 x (# OF VENTS)

ACCESS VENTS - 2' x1.5' x (# OF VENTS) = 3.00 FT^2 x (# OF VENTS)

NOTES

VENTING

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

FORM

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122042 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/15/2024~~

☐ 2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

MANNY D. FRISCH
No. S3380
RST#22214
02-08-24

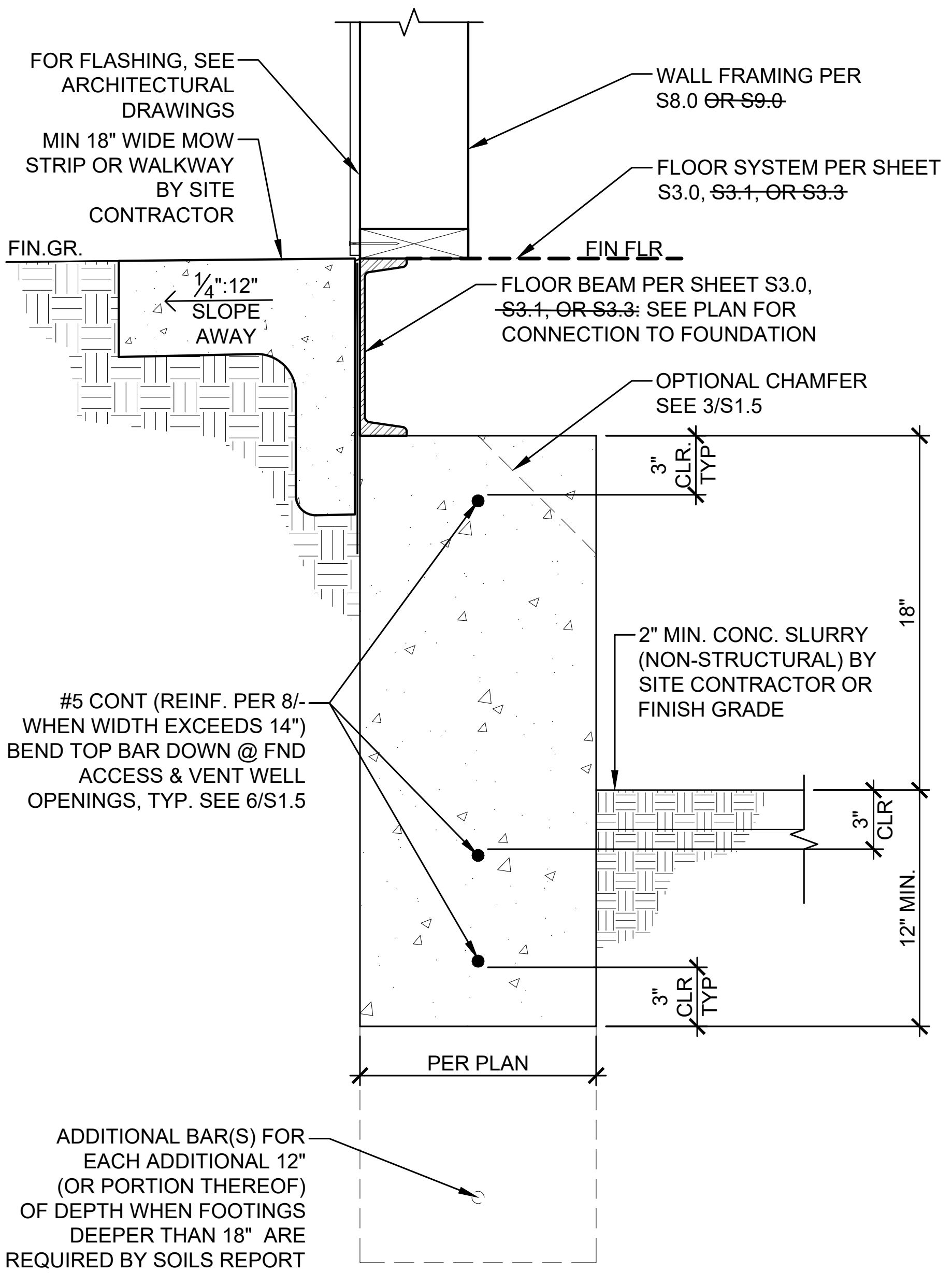
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS
1
2
3
4

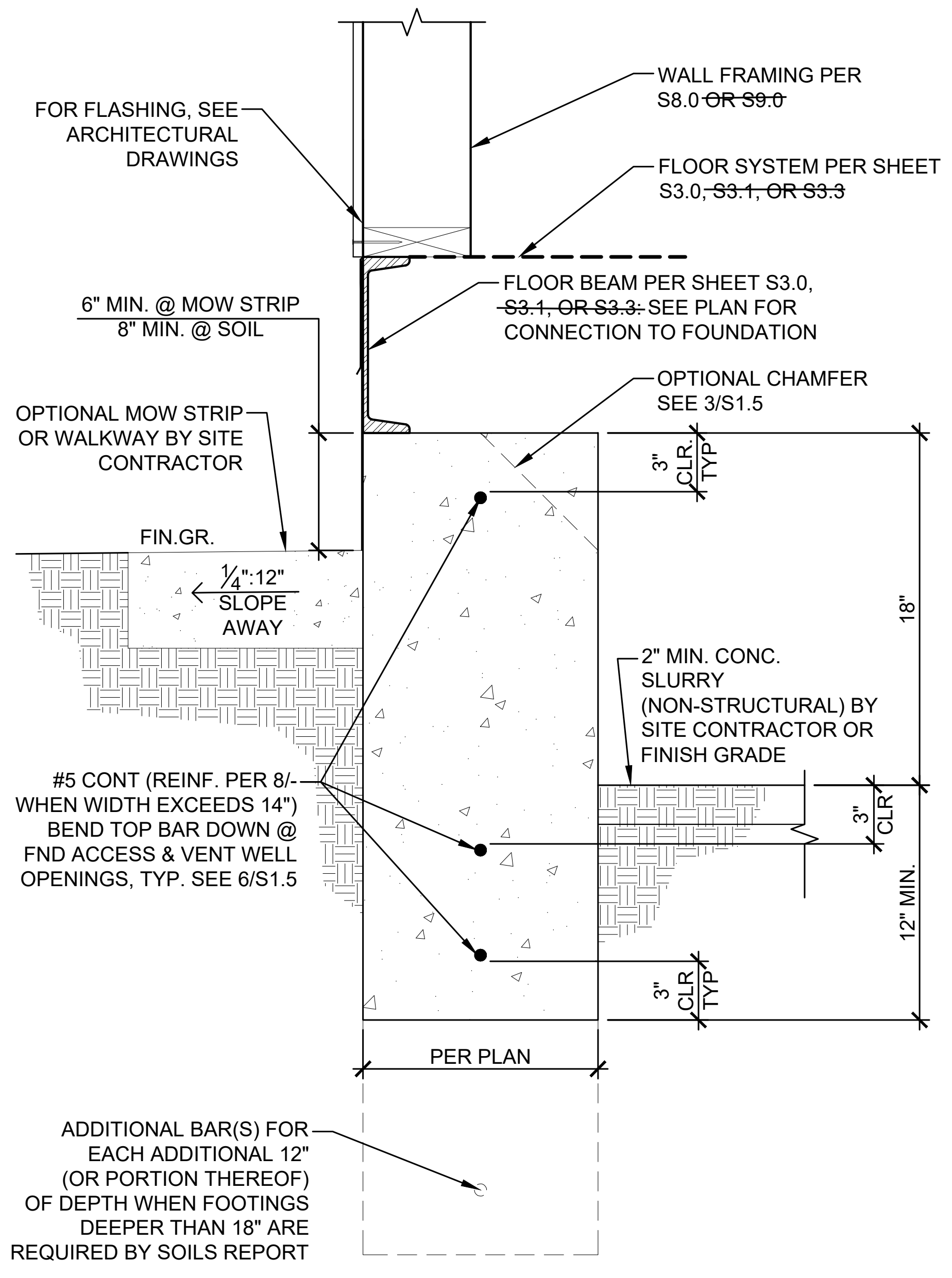
DRAWN BY:	
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-XX

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

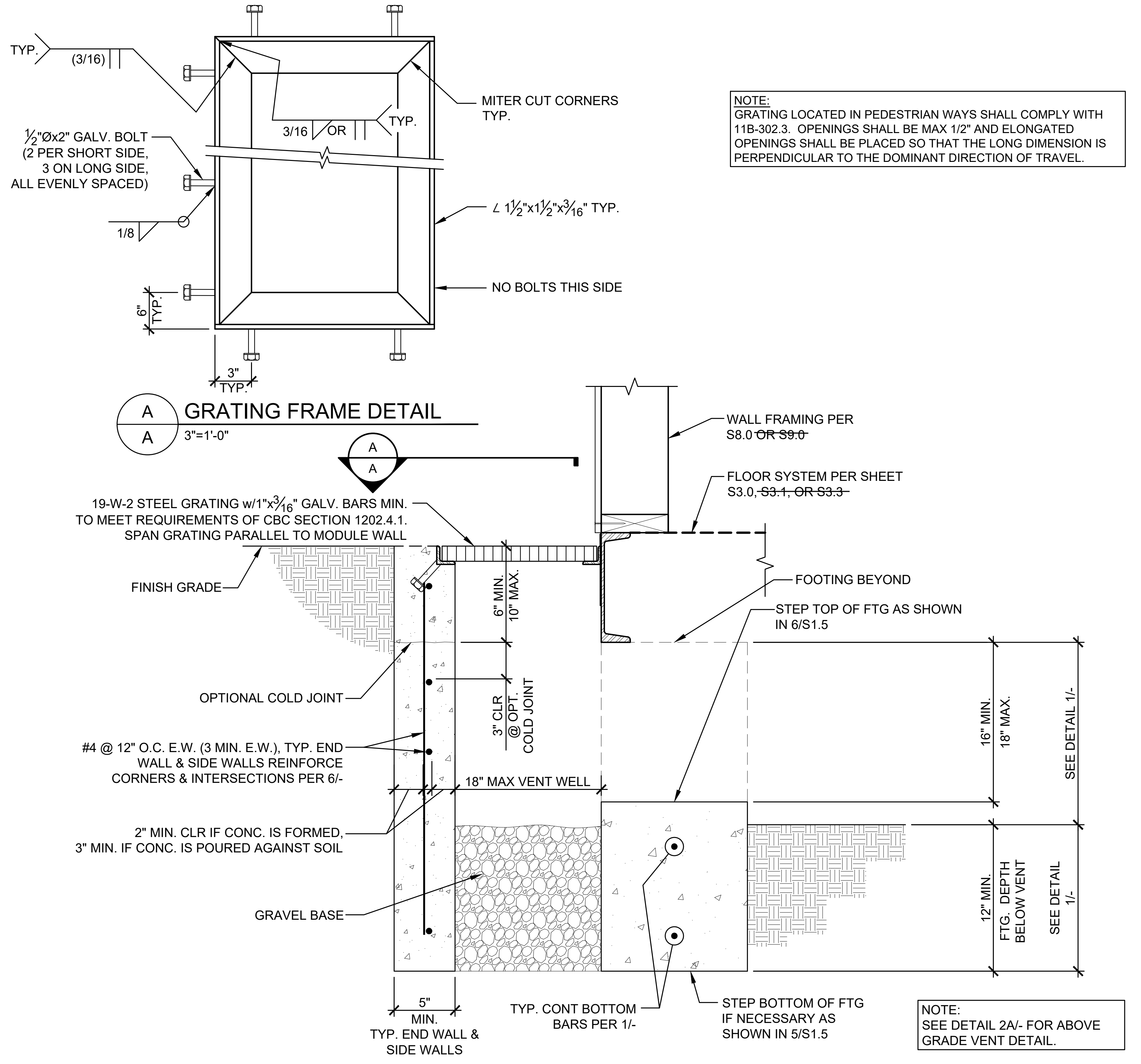
SHEET NUMBER:
S1.0


FOR FLASHING, SEE ARCHITECTURAL DRAWINGS
MIN 18" WIDE MOW STRIP OR WALKWAY BY SITE CONTRACTOR
FIN.GR.
FIN.FLR.
¼":12" SLOPE AWAY
WALL FRAMING PER S8.0 ~~OR S9.0~~
FLOOR SYSTEM PER SHEET S3.0, ~~S3.1, OR S3.3~~
FLOOR BEAM PER SHEET S3.0, ~~S3.1, OR S3.3;~~ SEE PLAN FOR CONNECTION TO FOUNDATION
OPTIONAL CHAMFER SEE 3/S1.5
3" CLR TYP
18"
2" MIN. CONC. SLURRY (NON-STRUCTURAL) BY SITE CONTRACTOR OR FINISH GRADE
#5 CONT (REINF. PER 8/- WHEN WIDTH EXCEEDS 14") BEND TOP BAR DOWN @ FND ACCESS & VENT WELL OPENINGS, TYP. SEE 6/S1.5
3" CLR
12" MIN.
3" CLR TYP
PER PLAN
ADDITIONAL BAR(S) FOR EACH ADDITIONAL 12" (OR PORTION THEREOF) OF DEPTH WHEN FOOTINGS DEEPER THAN 18" ARE REQUIRED BY SOILS REPORT

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


FOR FLASHING, SEE ARCHITECTURAL DRAWINGS
WALL FRAMING PER S8.0 ~~OR S9.0~~
FLOOR SYSTEM PER SHEET S3.0, ~~S3.1, OR S3.3~~
6" MIN. @ MOW STRIP
8" MIN. @ SOIL
FLOOR BEAM PER SHEET S3.0, ~~S3.1, OR S3.3;~~ SEE PLAN FOR CONNECTION TO FOUNDATION
OPTIONAL CHAMFER SEE 3/S1.5
OPTIONAL MOW STRIP OR WALKWAY BY SITE CONTRACTOR
FIN.GR.
¼":12" SLOPE AWAY
3" CLR TYP
18"
2" MIN. CONC. SLURRY (NON-STRUCTURAL) BY SITE CONTRACTOR OR FINISH GRADE
#5 CONT (REINF. PER 8/- WHEN WIDTH EXCEEDS 14") BEND TOP BAR DOWN @ FND ACCESS & VENT WELL OPENINGS, TYP. SEE 6/S1.5
3" CLR
12" MIN.
3" CLR TYP
PER PLAN
ADDITIONAL BAR(S) FOR EACH ADDITIONAL 12" (OR PORTION THEREOF) OF DEPTH WHEN FOOTINGS DEEPER THAN 18" ARE REQUIRED BY SOILS REPORT

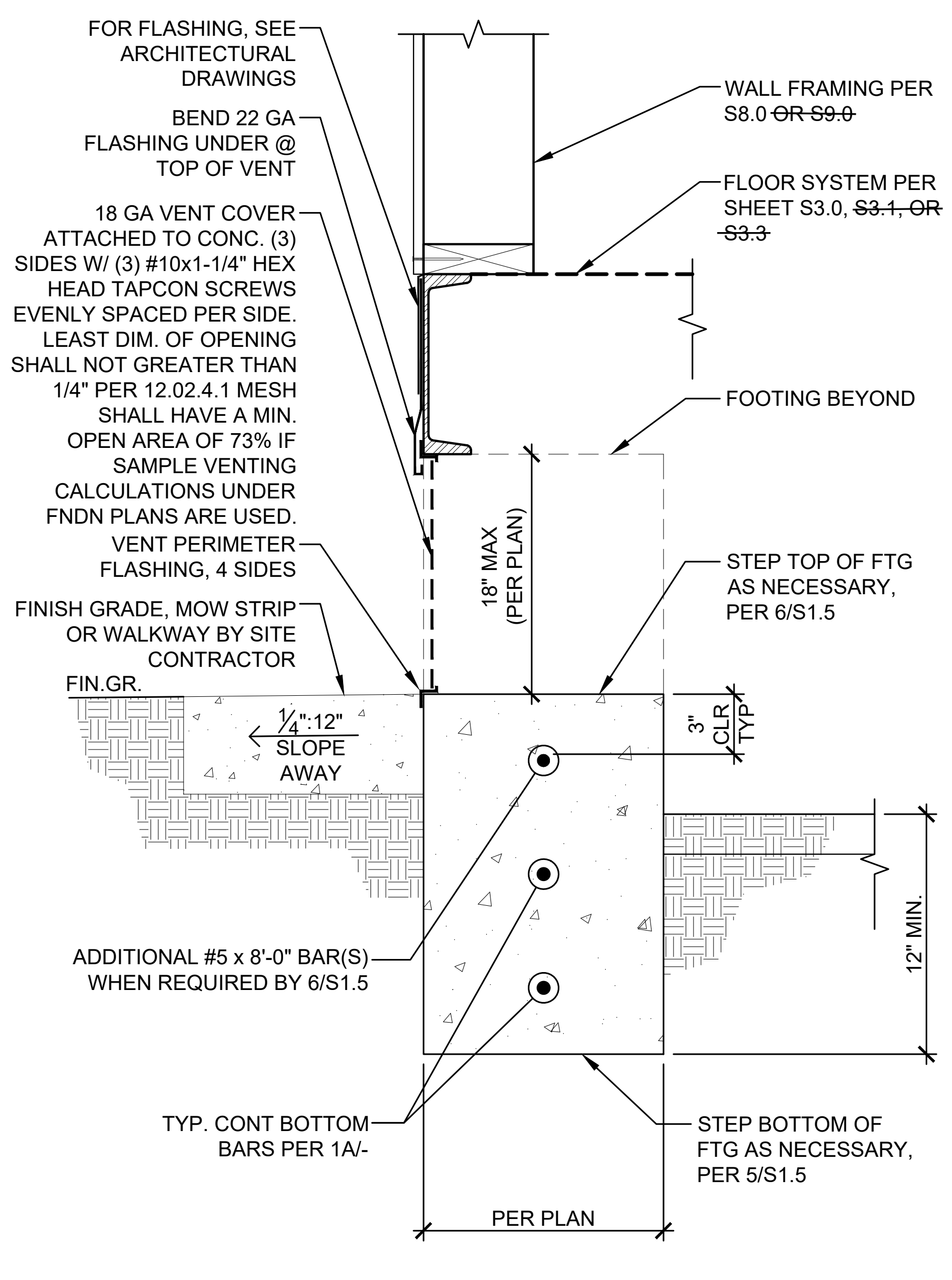
TYP. FOOTING - ABOVE GRADE SCALE: 1-1/2" = 1'-0" 1A


TYP.
(3/16)
½"Øx2" GALV. BOLT (2 PER SHORT SIDE, 3 ON LONG SIDE, ALL EVENLY SPACED)
3/16 OR TYP.
1/8
6" TYP.
3" TYP.
MITER CUT CORNERS TYP.
∠ 1½"x1½"x3⁄16" TYP.
NO BOLTS THIS SIDE
A A GRATING FRAME DETAIL
3"=1'-0"
A A
19-W-2 STEEL GRATING w/1"x3⁄16" GALV. BARS MIN. TO MEET REQUIREMENTS OF CBC SECTION 1202.4.1. SPAN GRATING PARALLEL TO MODULE WALL
FINISH GRADE
WALL FRAMING PER S8.0 ~~OR S9.0~~
FLOOR SYSTEM PER SHEET S3.0, ~~S3.1, OR S3.3~~
FOOTING BEYOND
STEP TOP OF FTG AS SHOWN IN 6/S1.5
6" MIN. 10" MAX.
OPTIONAL COLD JOINT
3" CLR @ OPT. COLD JOINT
#4 @ 12" O.C. E.W. (3 MIN. E.W.), TYP. END WALL & SIDE WALLS REINFORCE CORNERS & INTERSECTIONS PER 6/-
18" MAX VENT WELL
16" MIN.
18" MAX.
SEE DETAIL 1/-
2" MIN. CLR IF CONC. IS FORMED, 3" MIN. IF CONC. IS POURED AGAINST SOIL
12" MIN. FTG. DEPTH BELOW VENT
SEE DETAIL 1/-
GRAVEL BASE
5" MIN. TYP. END WALL & SIDE WALLS
TYP. CONT BOTTOM BARS PER 1/-
STEP BOTTOM OF FTG IF NECESSARY AS SHOWN IN 5/S1.5

NOTE:
GRATING LOCATED IN PEDESTRIAN WAYS SHALL COMPLY WITH 11B-302.3. OPENINGS SHALL BE MAX 1/2" AND ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

NOTE:
SEE DETAIL 2A/- FOR ABOVE GRADE VENT DETAIL.

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

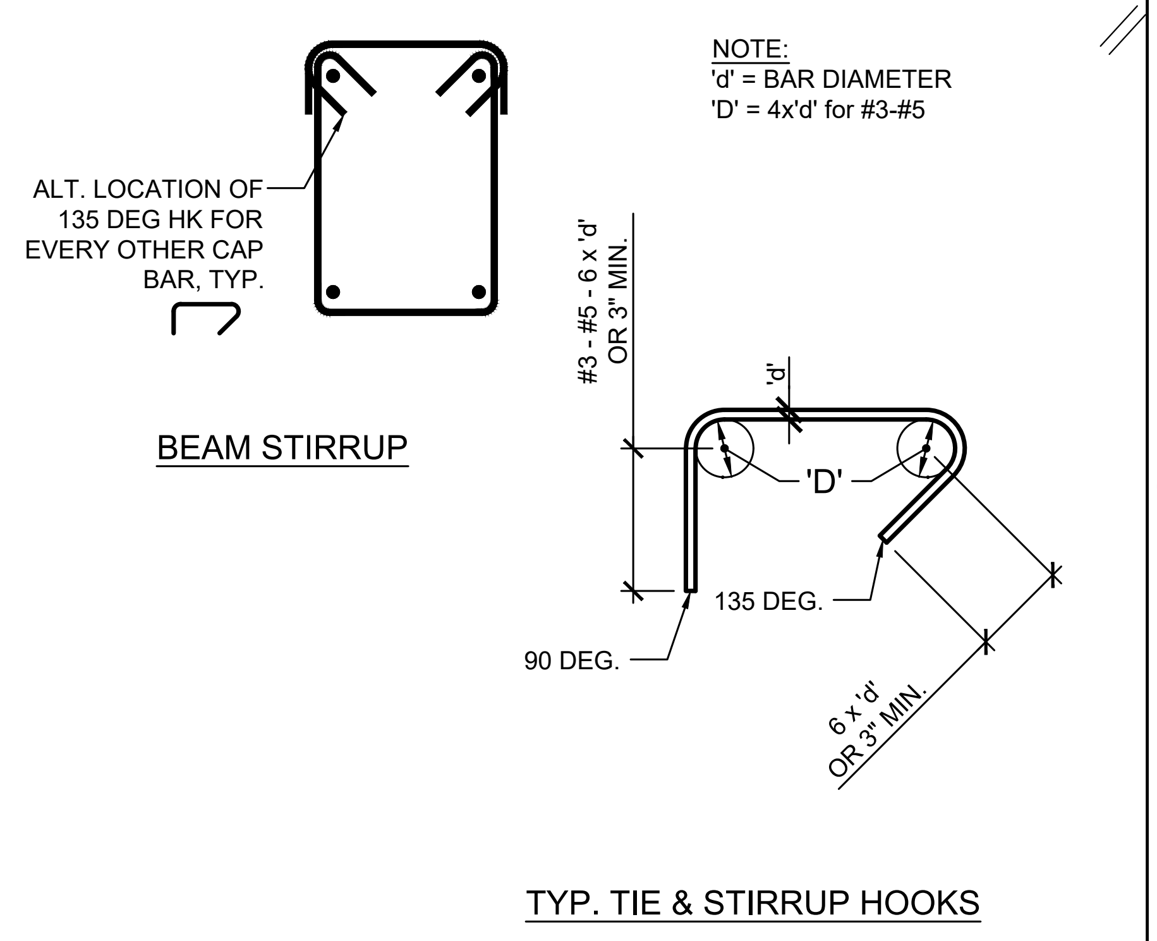

FOR FLASHING, SEE ARCHITECTURAL DRAWINGS
BEND 22 GA FLASHING UNDER @ TOP OF VENT
18 GA VENT COVER ATTACHED TO CONC. (3) SIDES W/ (3) #10x1-1/4" HEX HEAD TAPCON SCREWS EVENLY SPACED PER SIDE. LEAST DIM. OF OPENING SHALL NOT GREATER THAN 1/4" PER 12.02.4.1 MESH SHALL HAVE A MIN. OPEN AREA OF 73% IF SAMPLE VENTING CALCULATIONS UNDER FNDN PLANS ARE USED.
VENT PERIMETER FLASHING, 4 SIDES
FINISH GRADE, MOW STRIP OR WALKWAY BY SITE CONTRACTOR
FIN.GR.
¼":12" SLOPE AWAY
WALL FRAMING PER S8.0 ~~OR S9.0~~
FLOOR SYSTEM PER SHEET S3.0, ~~S3.1, OR S3.3~~
FOOTING BEYOND
18" MAX (PER PLAN)
STEP TOP OF FTG AS NECESSARY, PER 6/S1.5
3" CLR TYP
12" MIN.
ADDITIONAL #5 x 8'-0" BAR(S) WHEN REQUIRED BY 6/S1.5
TYP. CONT BOTTOM BARS PER 1A/-
STEP BOTTOM OF FTG AS NECESSARY, PER 5/S1.5
PER PLAN

NOTE:
SEE DETAIL 2/- FOR INFO NOT SHOWN

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

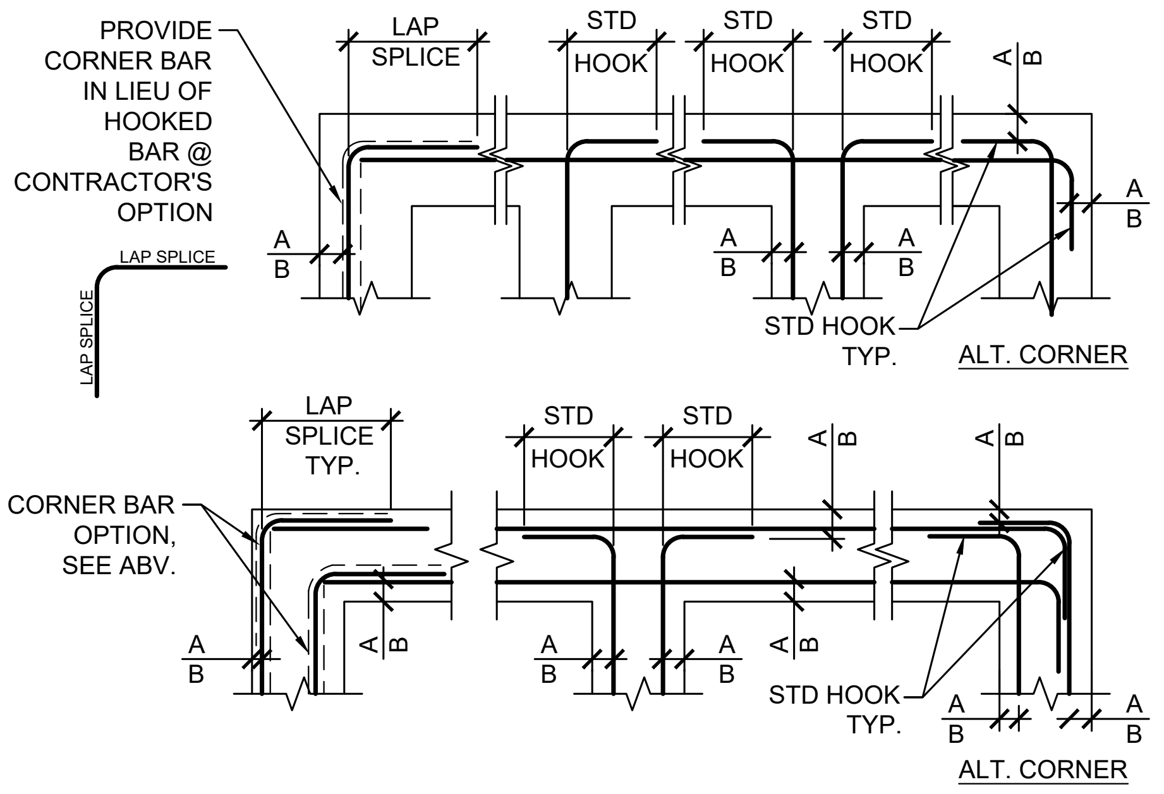
NOT USED 3

NOT USED 3A


ALT. LOCATION OF 135 DEG HK FOR EVERY OTHER CAP BAR, TYP.
BEAM STIRRUP
#3 - #5 - 6 x 'd' OR 3" MIN.
'd'
'D'
135 DEG.
90 DEG.
6 x 'd' OR 3" MIN.
TYP. TIE & STIRRUP HOOKS

NOTE:
'd' = BAR DIAMETER
'D' = 4x'd' for #3-#5

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

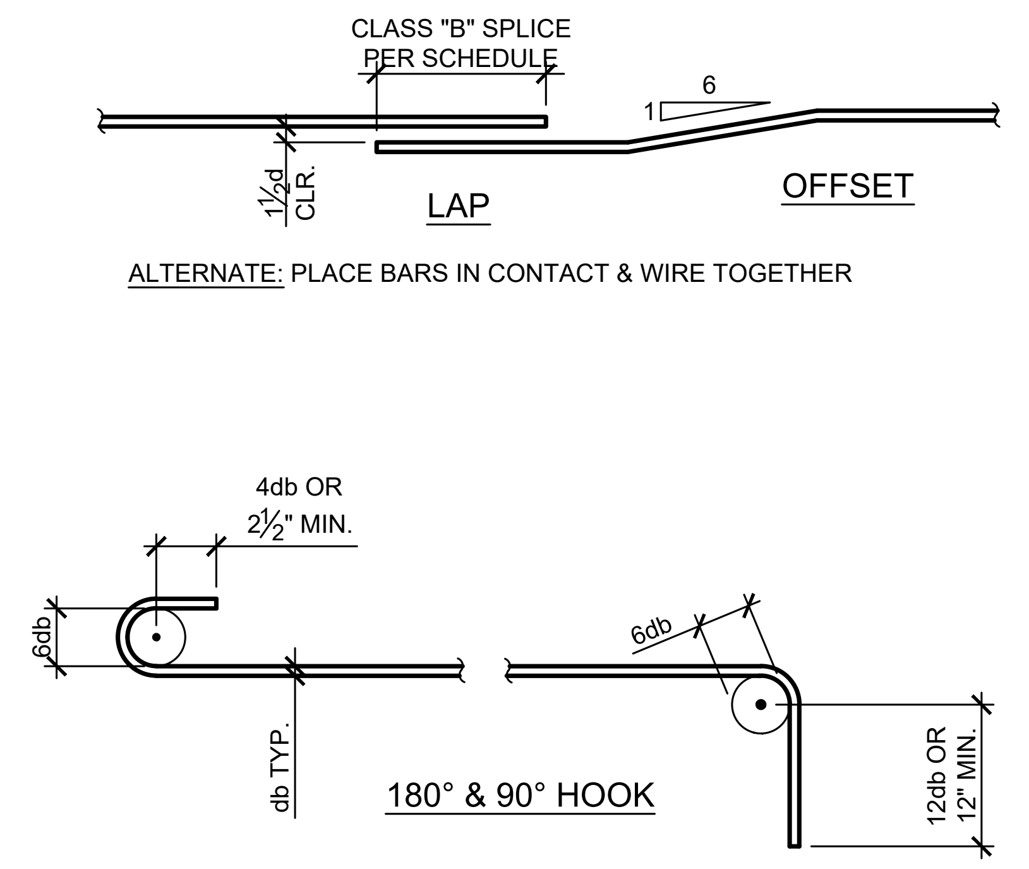


NOTES:
1. LAP SPLICE SHALL BE TYPICAL CLASS B SPLICE PER DETAIL 9/-.
2. HOOK LENGTH SHALL BE MIN 12d OR 12", WHICHEVER IS GREATER, WHERE d = DIAMETER OF THE BAR.
3. "A" = 2" COVER @ FORMED FOOTING
4. "B" = 3" COVER @ UNFORMED FOOTING

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

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

REINFORCEMENT WHEN FOOTING EXCEEDS 12" 8



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

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

TYP. REINFORCING LAPS & BENDS SCALE: 1-1/2" = 1'-0" 9

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DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

FORM

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ 2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRISCH
No. S3380
STRUCTURAL
STATE OF CALIFORNIA
RST#22214

02-08-24
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3
4

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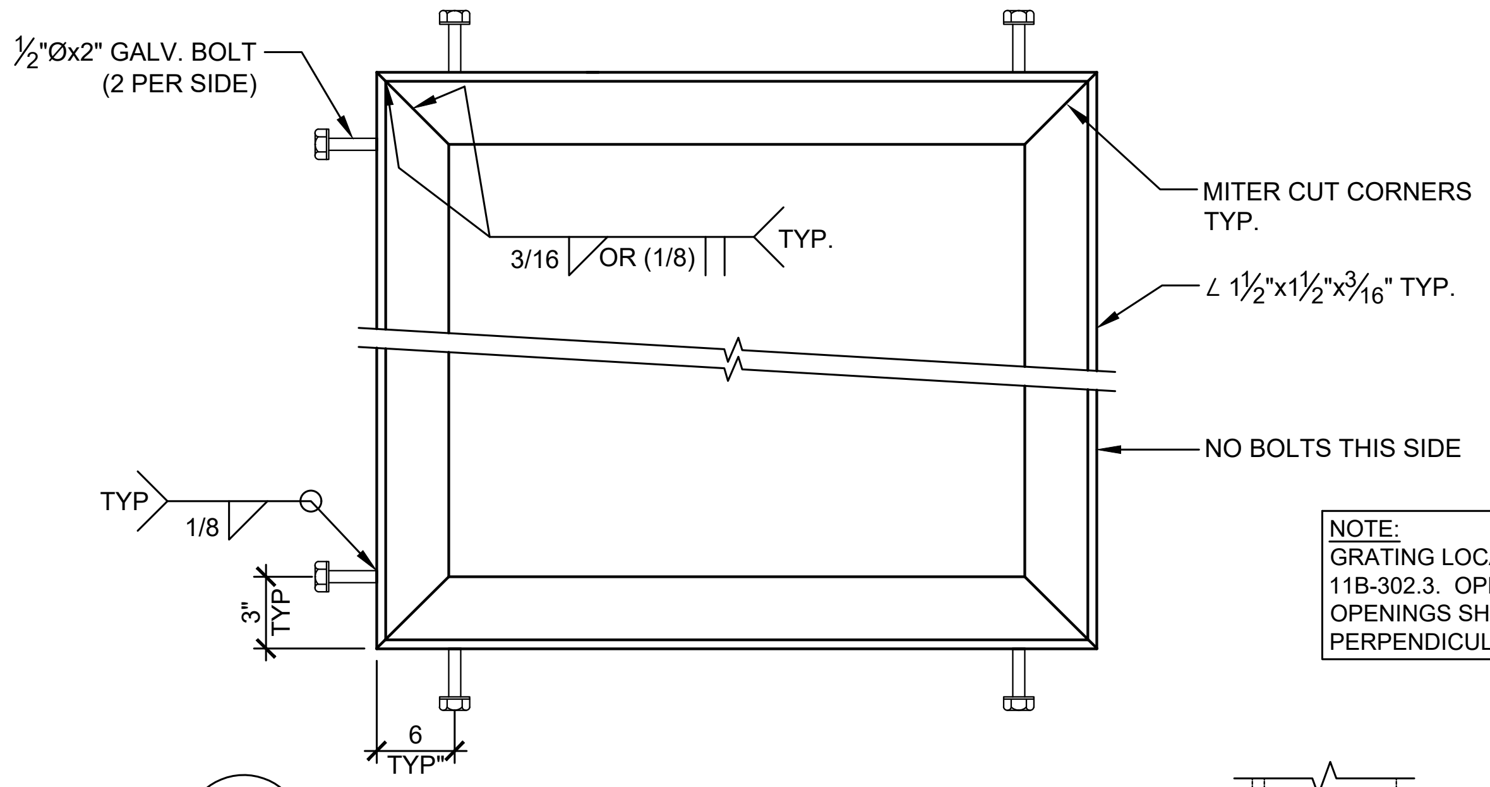
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-XX

SHEET TITLE:
CONCRETE FOUNDATION DETAILS

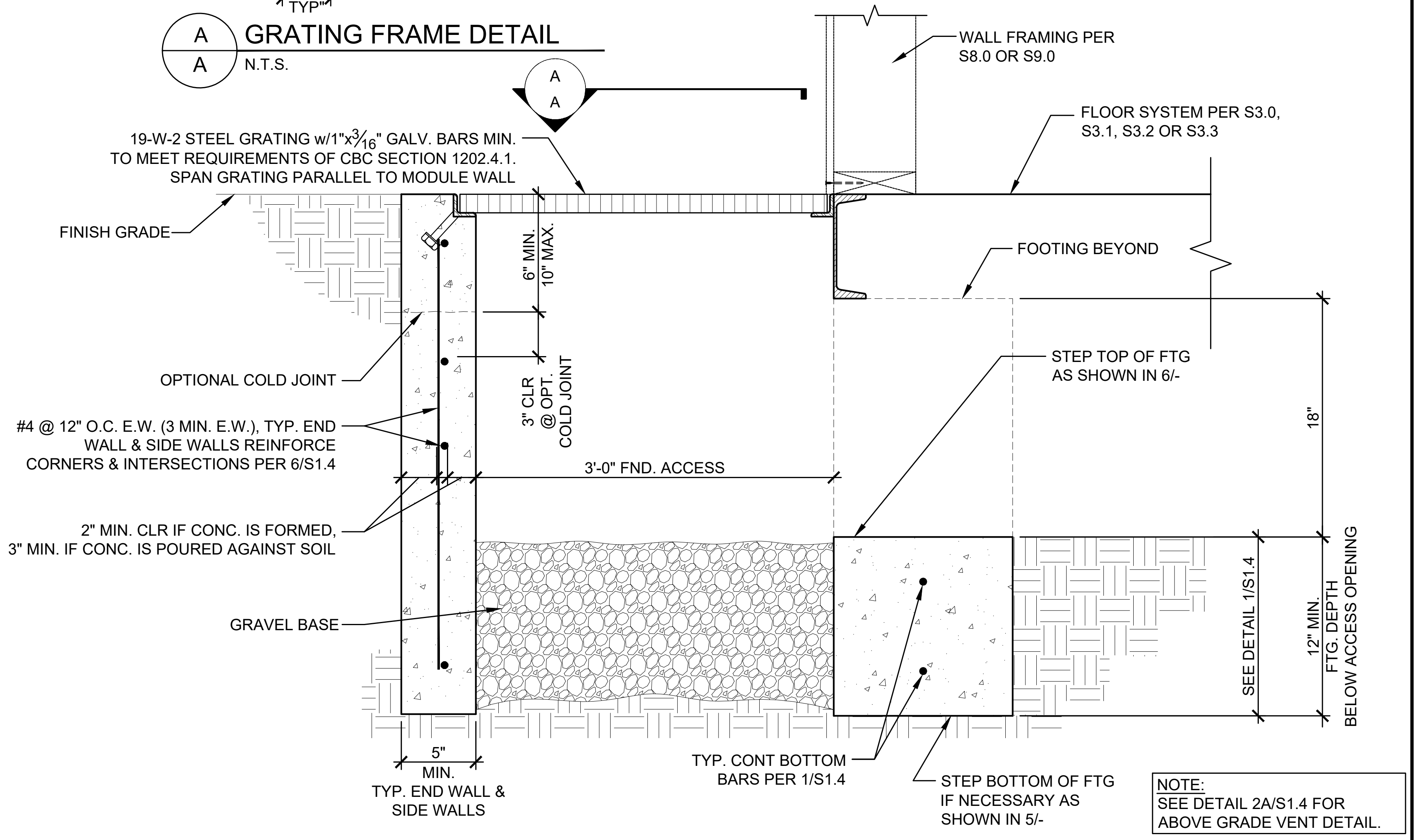
SHEET NUMBER:
S1.4



NOTE:
GRATING LOCATED IN PEDESTRIAN WAYS SHALL COMPLY WITH 11B-302.3. OPENINGS SHALL BE MAX 1/2" AND ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

GRATING FRAME DETAIL

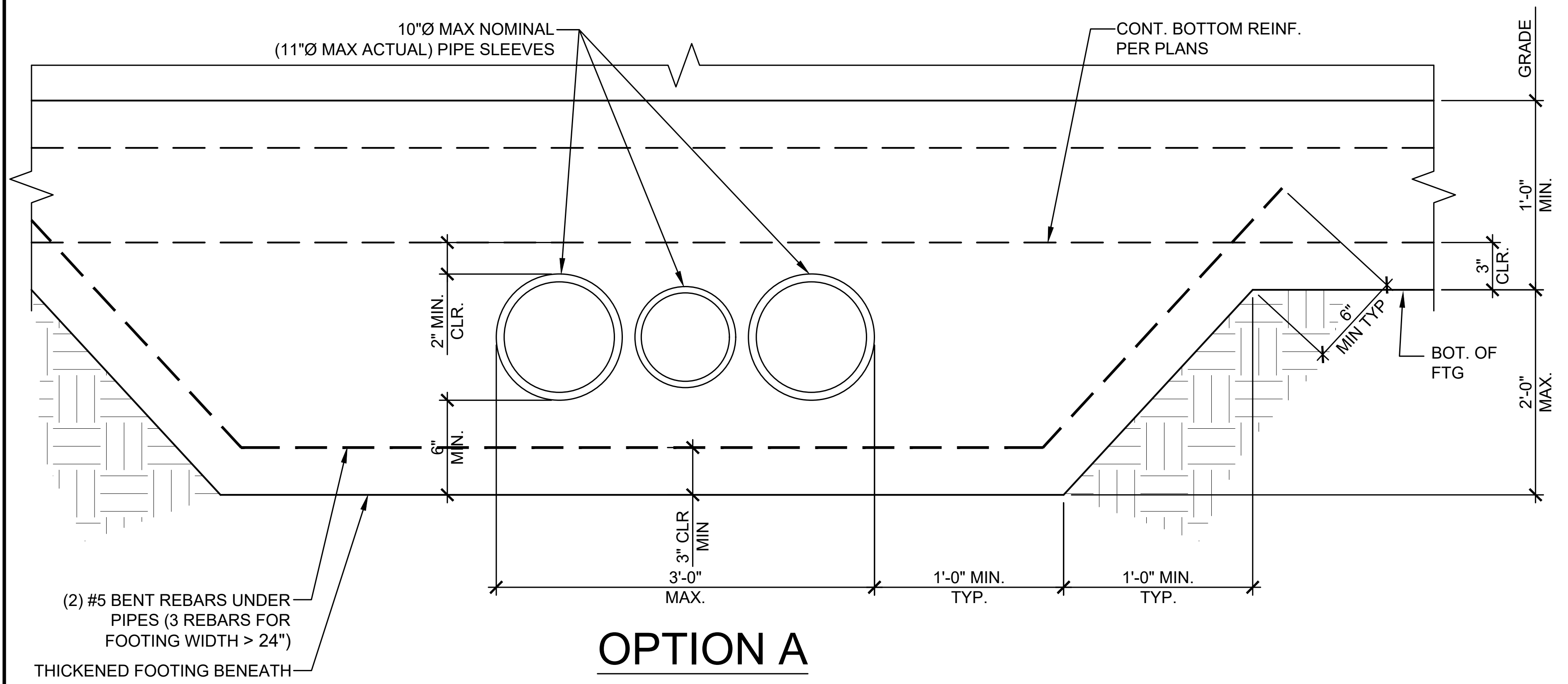
A/A N.T.S.


A A
WALL FRAMING PER S8.0 OR S9.0
FLOOR SYSTEM PER S3.0, S3.1, S3.2 OR S3.3
19-W-2 STEEL GRATING w/1"x3⁄16" GALV. BARS MIN. TO MEET REQUIREMENTS OF CBC SECTION 1202.4.1. SPAN GRATING PARALLEL TO MODULE WALL
FINISH GRADE
6" MIN. 10" MAX.
FOOTING BEYOND
OPTIONAL COLD JOINT
3" CLR @ OPT. COLD JOINT
STEP TOP OF FTG AS SHOWN IN 6/-
#4 @ 12" O.C. E.W. (3 MIN. E.W.), TYP. END WALL & SIDE WALLS REINFORCE CORNERS & INTERSECTIONS PER 6/S1.4
3'-0" FND. ACCESS
18"
2" MIN. CLR IF CONC. IS FORMED, 3" MIN. IF CONC. IS POURED AGAINST SOIL
GRAVEL BASE
SEE DETAIL 1/S1.4
12" MIN. FTG. DEPTH BELOW ACCESS OPENING
5" MIN. TYP. END WALL & SIDE WALLS
TYP. CONT BOTTOM BARS PER 1/S1.4
STEP BOTTOM OF FTG IF NECESSARY AS SHOWN IN 5/-

NOTE:
SEE DETAIL 2A/S1.4 FOR ABOVE GRADE VENT DETAIL.

BELOW GRADE SECTION / ACCESS WELL DETAIL

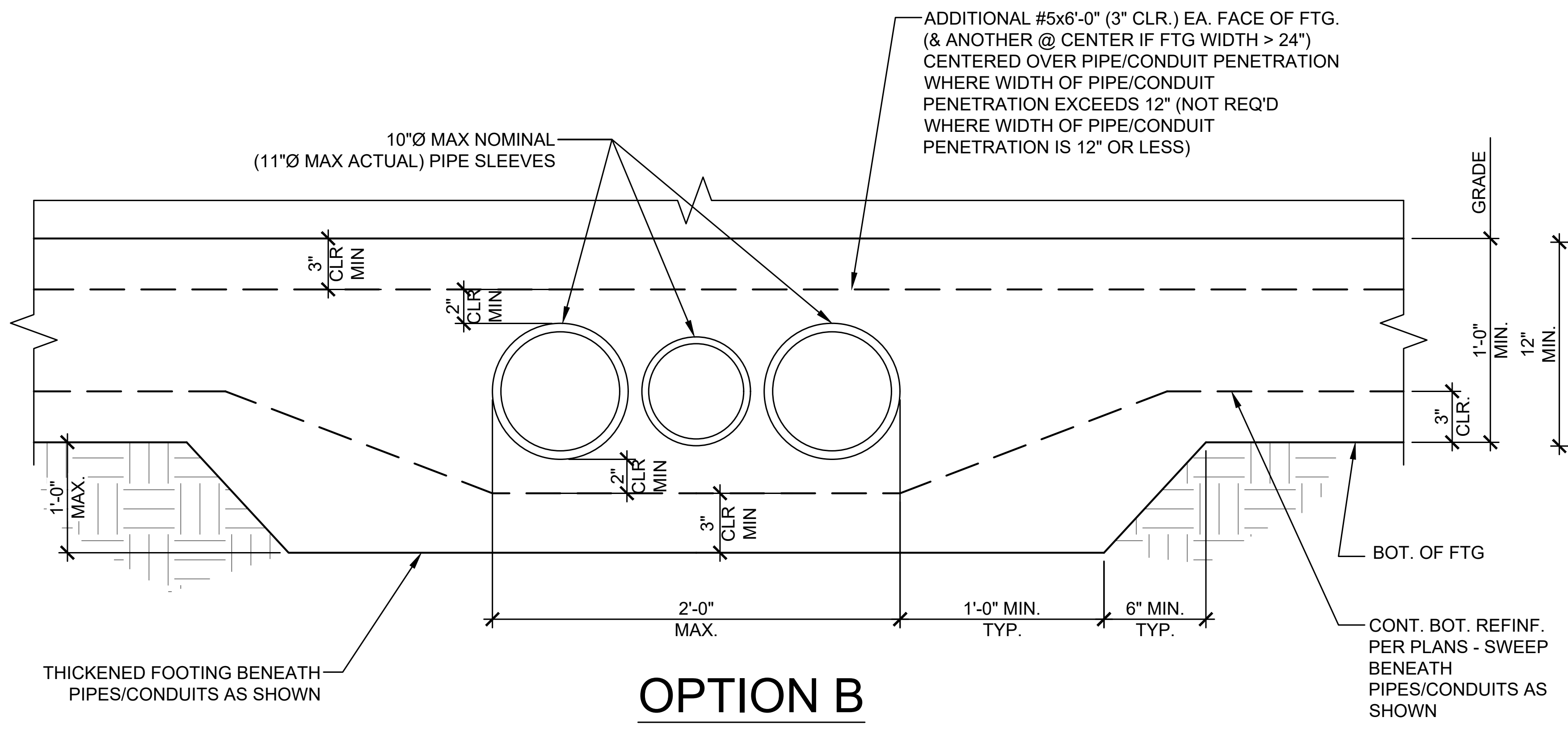
SCALE:1 1/2"=1'-0" 1


10"Ø MAX NOMINAL (11"Ø MAX ACTUAL) PIPE SLEEVES
CONT. BOTTOM REINF. PER PLANS
GRADE
1'-0" MIN.
3" CLR.
2'-0" MAX.
2" MIN. CLR.
6" MIN.
6" MIN TYP
BOT. OF FTG
3" CLR MIN
3'-0" MAX.
1'-0" MIN. TYP.
1'-0" MIN. TYP.
(2) #5 BENT REBARS UNDER PIPES (3 REBARS FOR FOOTING WIDTH > 24")
THICKENED FOOTING BENEATH PIPES/CONDUITS AS SHOWN

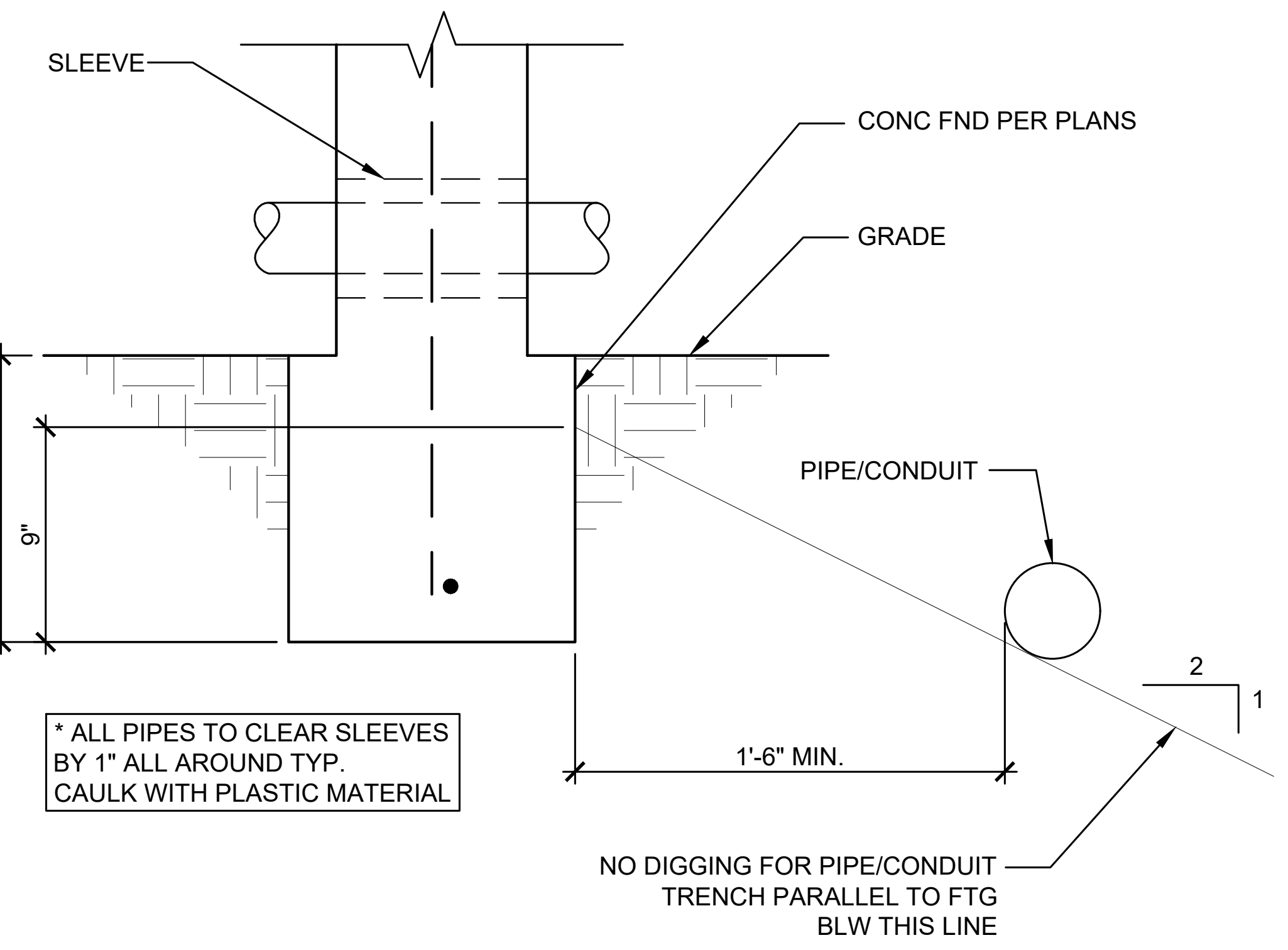
OPTION A

NOTES:

1. AS AN OPTION TO INDIVIDUAL PIPE SLEEVES, THE FOOTING MAY BE BLOCKED OUT FOR MULTIPLE PIPES (10" HIGH x 36" WIDE MAX @ OPTION "A", 10" HIGH x 24" WIDE MAX OPTION "B") OR INDIVIDUALLY. PROVIDE 1" MIN. CLEARANCE ALL AROUND BETWEEN PIPES/CONDUITS & BLOCKOUT/SLEEVES & FILL w/ CAULK.
2. CONCRETE SHALL BE WELL CONSOLIDATED AROUND & UNDER PIPES, CONDUITS, SLEEVES, BLOCKOUTS TO PREVENT CONCRETE VOIDS.
3. PROVIDE 2" CLEAR MIN BETWEEN BLOCKOUT SLEEVES AND REINFORCEMENT.
4. WHERE TOP OF PIPES/CONDUITS ARE 12" OR MORE BELOW THE BOTTOM OF THE FOOTING, THICKENED FOOTING AROUND PIPES/CONDUITS IS NOT REQUIRED. BACKFILL & COMPACT TO 95% OVER PIPES / CONDUITS PRIOR TO PLACING FOOTING.


ADDITIONAL #5x6'-0" (3" CLR.) EA. FACE OF FTG. (& ANOTHER @ CENTER IF FTG WIDTH > 24") CENTERED OVER PIPE/CONDUIT PENETRATION WHERE WIDTH OF PIPE/CONDUIT PENETRATION EXCEEDS 12" (NOT REQ'D WHERE WIDTH OF PIPE/CONDUIT PENETRATION IS 12" OR LESS)
10"Ø MAX NOMINAL (11"Ø MAX ACTUAL) PIPE SLEEVES
GRADE
3" CLR MIN
2" CLR MIN
1'-0" MIN.
3" CLR.
1'-0" MAX.
2" CLR MIN
3" CLR MIN
BOT. OF FTG
2'-0" MAX.
1'-0" MIN. TYP.
6" MIN. TYP.
THICKENED FOOTING BENEATH PIPES/CONDUITS AS SHOWN
CONT. BOT. REFINF. PER PLANS - SWEEP BENEATH PIPES/CONDUITS AS SHOWN

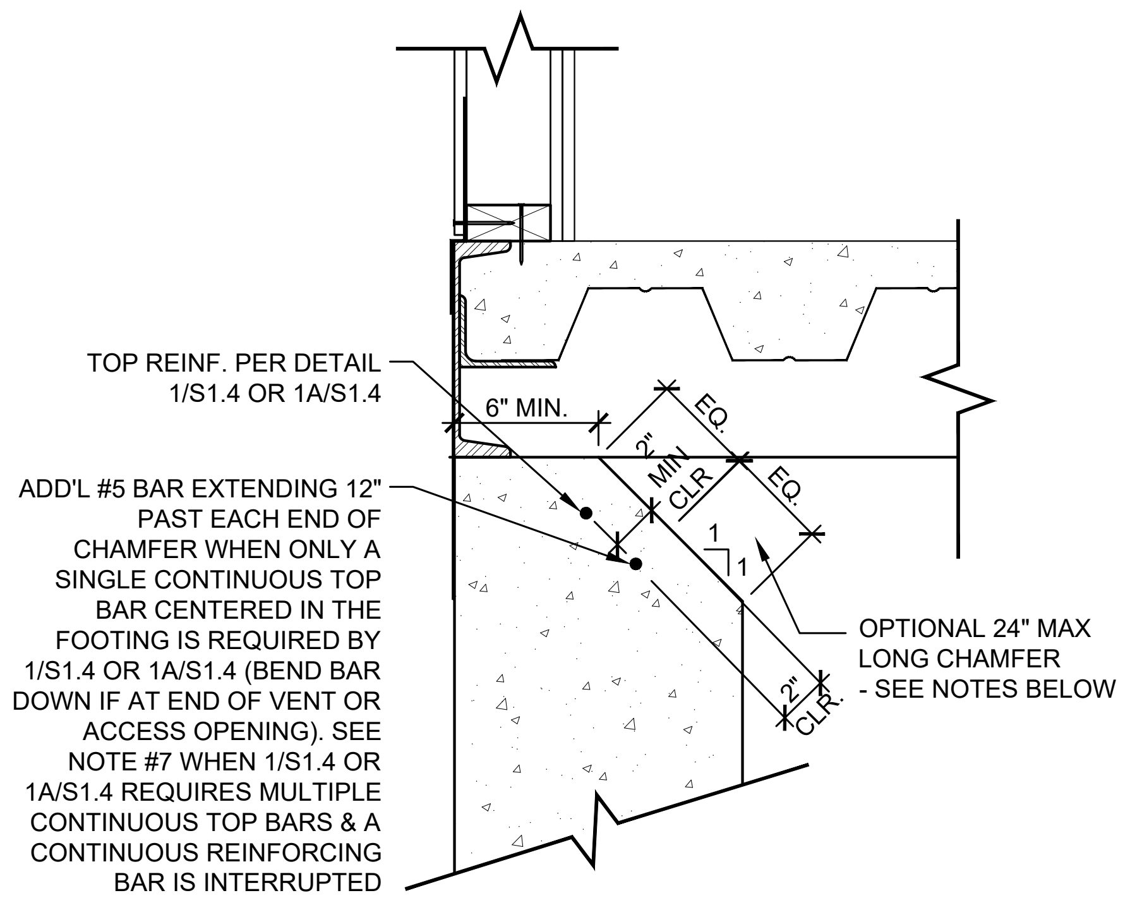
OPTION B


SLEEVE
CONC FND PER PLANS
GRADE
12" MIN.
9"
PIPE/CONDUIT
2 1
1'-6" MIN.
NO DIGGING FOR PIPE/CONDUIT TRENCH PARALLEL TO FTG BLW THIS LINE

* ALL PIPES TO CLEAR SLEEVES BY 1" ALL AROUND TYP. CAULK WITH PLASTIC MATERIAL

PIPE SLEEVE DETAIL

N.T.S. 2


TOP REINF. PER DETAIL 1/S1.4 OR 1A/S1.4
6" MIN.
2" MIN CLR
EQ.
EQ.
1 1
2" CLR.
ADD'L #5 BAR EXTENDING 12" PAST EACH END OF CHAMFER WHEN ONLY A SINGLE CONTINUOUS TOP BAR CENTERED IN THE FOOTING IS REQUIRED BY 1/S1.4 OR 1A/S1.4 (BEND BAR DOWN IF AT END OF VENT OR ACCESS OPENING). SEE NOTE #7 WHEN 1/S1.4 OR 1A/S1.4 REQUIRES MULTIPLE CONTINUOUS TOP BARS & A CONTINUOUS REINFORCING BAR IS INTERRUPTED
OPTIONAL 24" MAX LONG CHAMFER - SEE NOTES BELOW

NOTES:

1. CHAMFER MAY BE LOCATED ALONG ALL LOCATIONS OF THE PERIMETER OF THE BUILDING FOUNDATION UNLESS OTHERWISE NOTED ON PLAN OR AS DESCRIBED BELOW.
2. CHAMFER SHALL NOT BE LOCATED WITHIN 3'-6" OF THE CORNERS OF THE BUILDING FOUNDATION.
3. CHAMFERS AT FRONT OR REAR END WALL FOOTINGS SHALL NOT BE LOCATED WITHIN 2'-0" OF A MODULE LINE
4. CHAMFERS SHALL NOT BE LOCATED WITHIN 1'-6" OF UTILITY OPENINGS PER SHEET S1.7
5. CHAMFER MAY OCCUR AT THE ENDS OF VENT OR ACCESS OPENINGS (ALONG THE INTERIOR EDGE OF THE STEMWALL PARALLEL TO THE FLOOR BEAM AS SHOWN ABOVE)
6. BOTTOM OF CHAMFER SHALL NOT BE LOWER THAN FINISHED GRADE
7. WHEN 1/S1.4 OR 1A/S1.4 REQUIRES MULTIPLE CONTINUOUS TOP BARS AND THE CHAMFER INTERRUPTS A CONTINUOUS LONGITUDINAL REINFORCING BAR, PROVIDE AN ADDITIONAL #5 x 6'-0" BAR 2" CLEAR AND CENTERED ON THE CHAMFER (BEND BAR DOWN IF AT END OF VENT OR ACCESS OPENING)
8. FOR ALL ITEMS NOT SHOWN OR NOTED SEE DETAILS 1/S1.4 & 1A/S1.4.

CHAMFER DETAILS @ PERIMETER

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

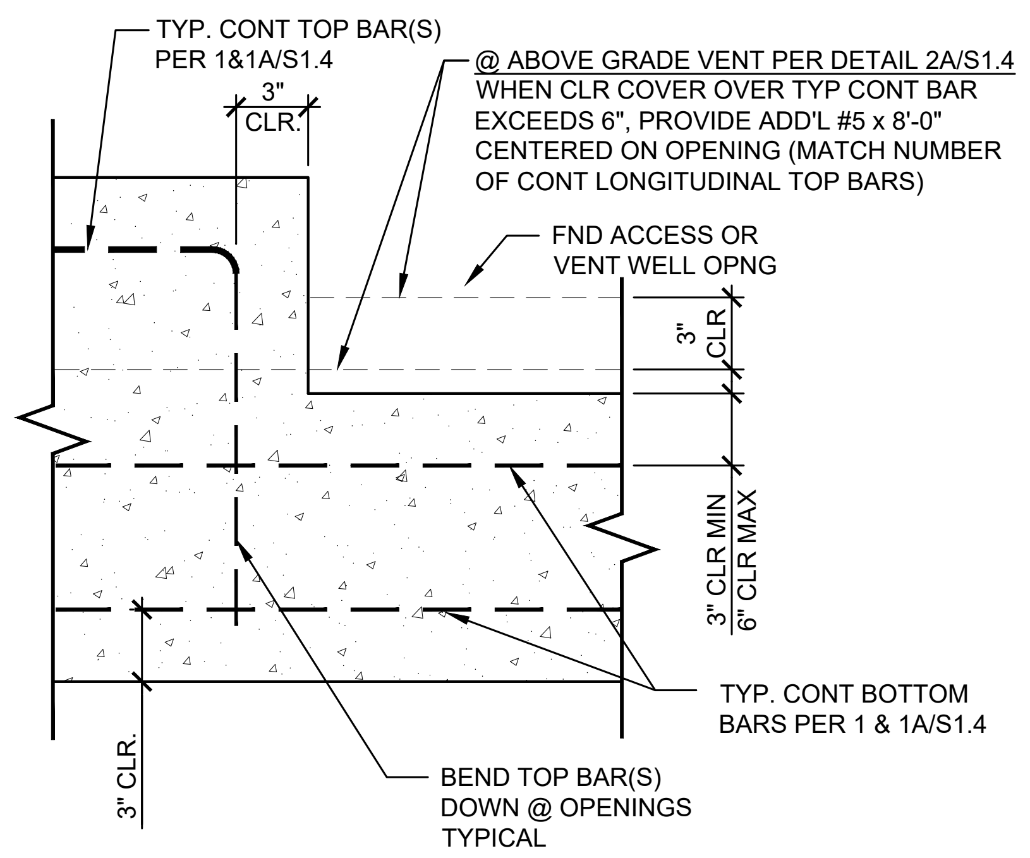
NOT USED

4

TYPICAL STEPPED FOOTING DETAILS

SCALE: 3/8"=1'-0" 5

NOTE: SEE SECTIONS FOR FTG WIDTH & REINF


TYP. CONT TOP BAR(S) PER 1&1A/S1.4
3" CLR.
@ ABOVE GRADE VENT PER DETAIL 2A/S1.4 WHEN CLR COVER OVER TYP CONT BAR EXCEEDS 6", PROVIDE ADD'L #5 x 8'-0" CENTERED ON OPENING (MATCH NUMBER OF CONT LONGITUDINAL TOP BARS)
FND ACCESS OR VENT WELL OPNG
3" CLR
3" CLR MIN 6" CLR MAX
TYP. CONT BOTTOM BARS PER 1 & 1A/S1.4
3" CLR.
BEND TOP BAR(S) DOWN @ OPENINGS TYPICAL

VENT/ACCESS OPENING DETAIL

SCALE:1 1/2"=1'-0" 6

NOT USED

7

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SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

FORM®

SITE SPECIFIC PROJECT NAME
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.
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~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
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MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

MANNY D. FRISCH
No. S3380
RST#22214

02-08-24

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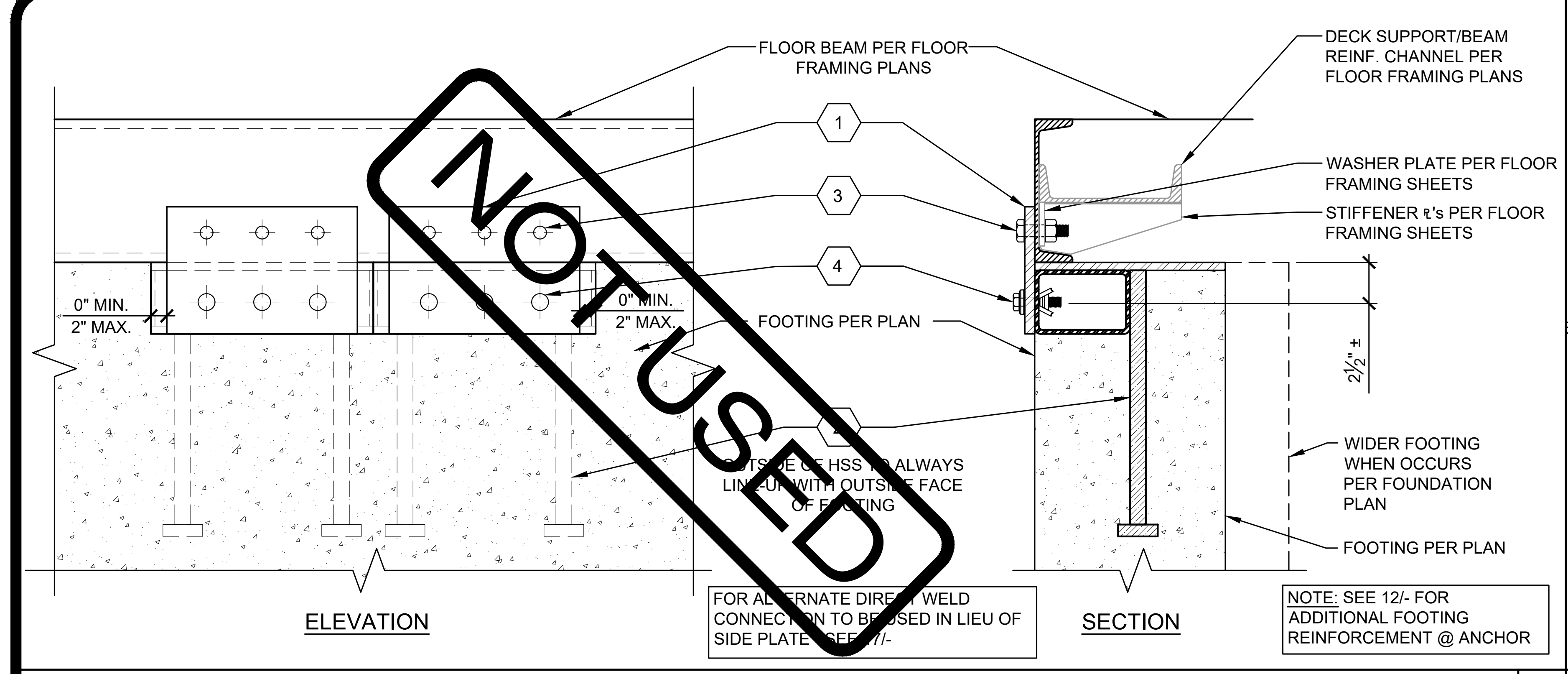
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-XX

SHEET TITLE:
CONCRETE FOUNDATION DETAILS

SHEET NUMBER:
S1.5

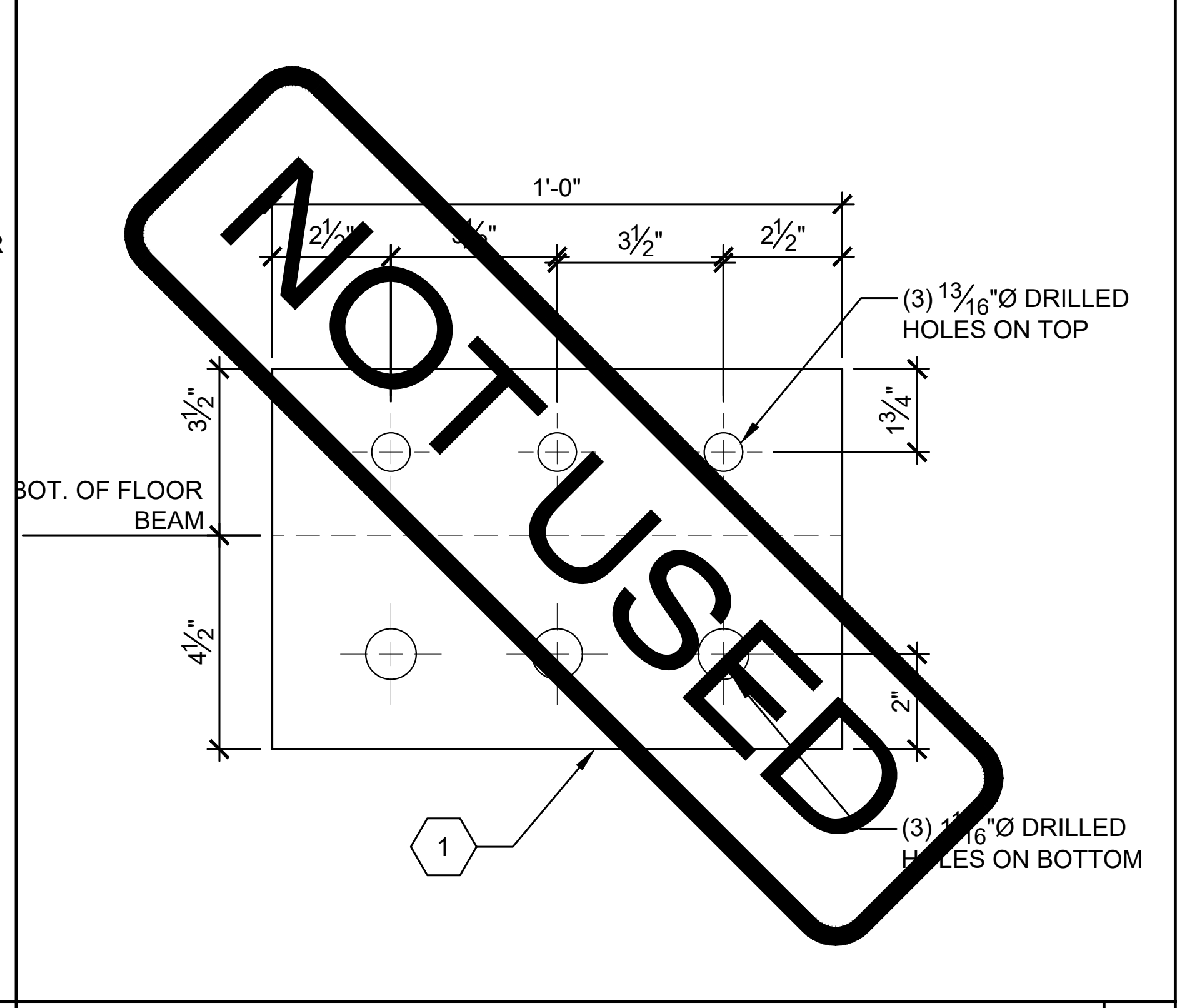

FLOOR BEAM PER FLOOR FRAMING PLANS
DECK SUPPORT/BEAM REINF. CHANNEL PER FLOOR FRAMING PLANS
1
3
4
WASHER PLATE PER FLOOR FRAMING SHEETS
STIFFENER ⅊'s PER FLOOR FRAMING SHEETS
0" MIN.
2" MAX.
0" MIN.
2" MAX.
FOOTING PER PLAN
2½" ±
OUTSIDE OF HSS TO ALWAYS LINE-UP WITH OUTSIDE FACE OF FOOTING
WIDER FOOTING WHEN OCCURS PER FOUNDATION PLAN
FOOTING PER PLAN
NOT USED
ELEVATION
SECTION

FOR ALTERNATE DIRECT WELD CONNECTION TO BE USED IN LIEU OF SIDE PLATE - SEE 17/-

NOTE: SEE 12/- FOR ADDITIONAL FOOTING REINFORCEMENT @ ANCHOR

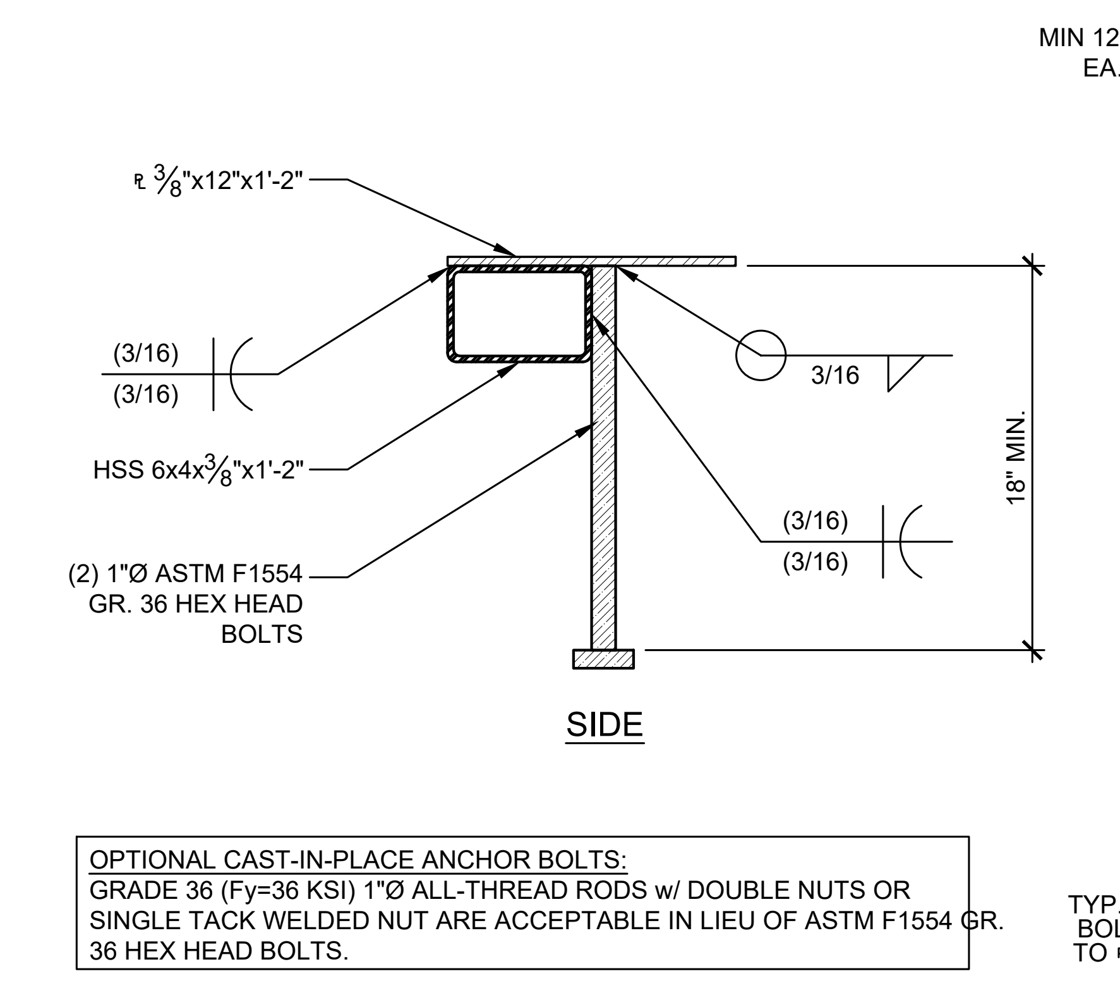
STANDARD ANCHORAGE DETAIL

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


1'-0"
3½"
2½"
(3) $\frac{13}{16}$"Ø DRILLED HOLES ON TOP
3½"
1¼"
BOT. OF FLOOR BEAM
4½"
2"
1
(3) $\frac{13}{16}$"Ø DRILLED HOLES ON BOTTOM
NOT USED

SIDE PLATE DETAIL

SCALE: 3" = 1'-0" 3



OPTIONAL CAST-IN-PLACE ANCHOR BOLTS:
GRADE 36 (Fy=36 KSI) 1"Ø ALL-THREAD RODS w/ DOUBLE NUTS OR SINGLE TACK WELDED NUT ARE ACCEPTABLE IN LIEU OF ASTM F1554 GR. 36 HEX HEAD BOLTS.

EMBEDDED ANCHOR DETAIL

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
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www.americanmodular.com

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

FORM®

SITE SPECIFIC PROJECT NAME
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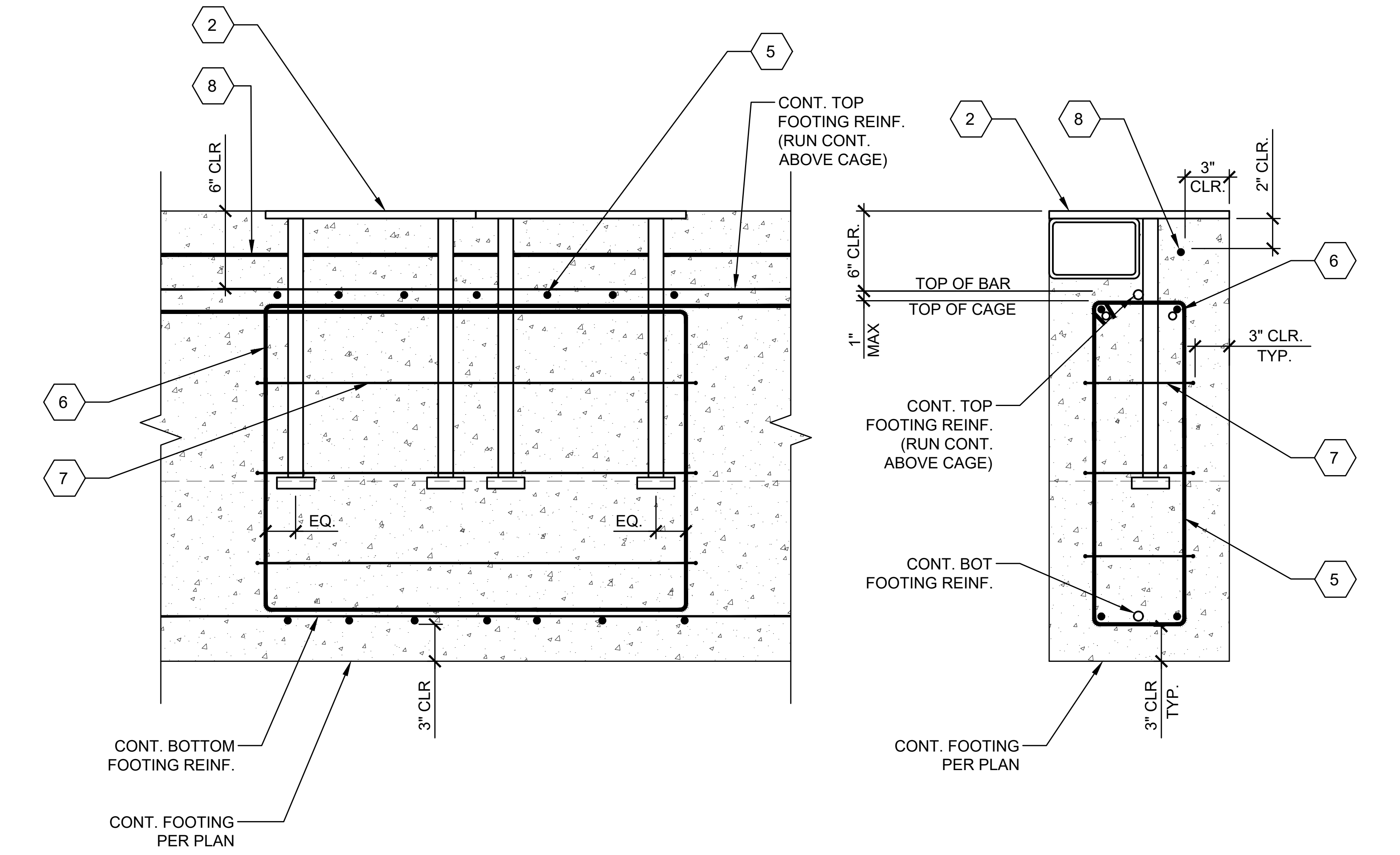
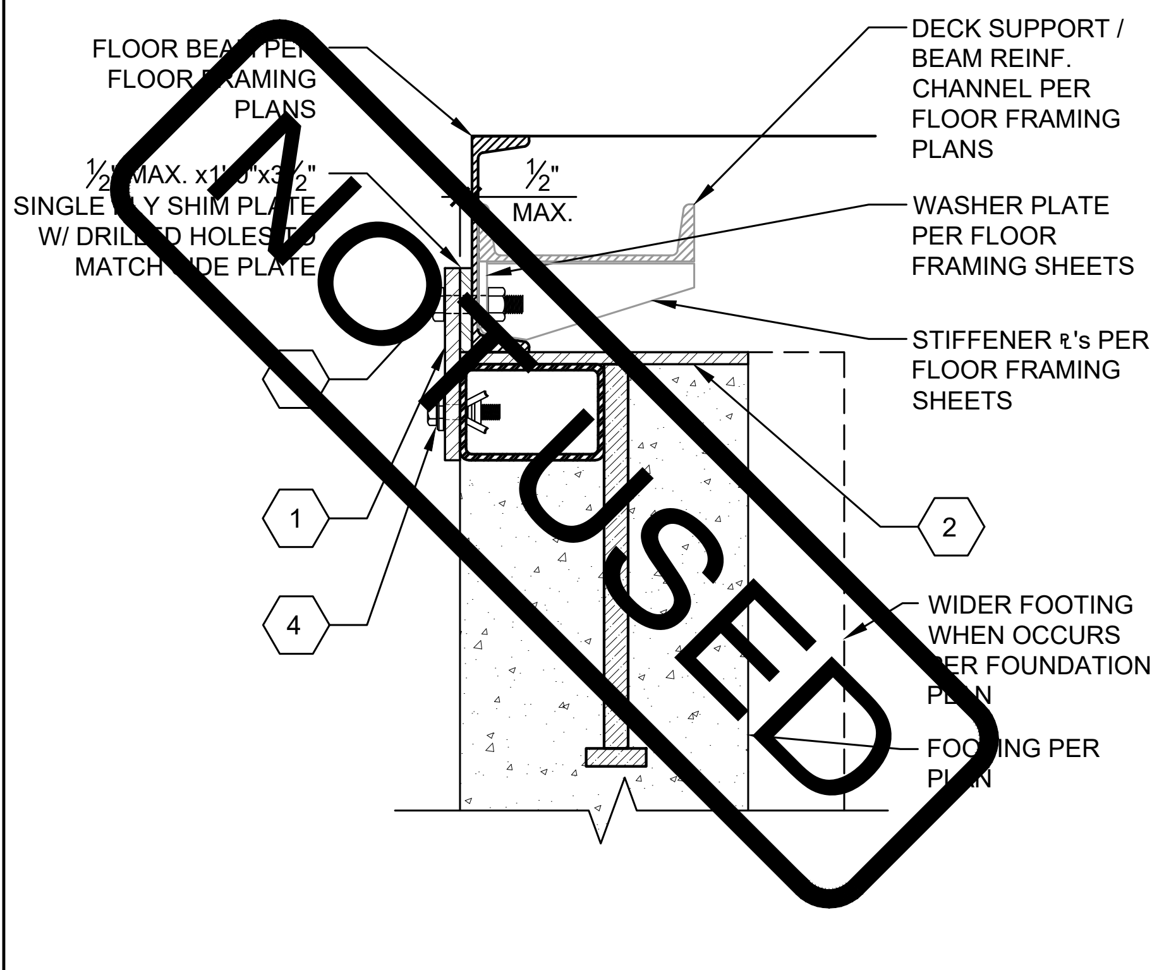


EMBEDDED ANCHOR REINFORCEMENT DETAIL

SCALE: 1-1/2" = 1'-0" 12


FLOOR BEAM PER FLOOR FRAMING PLANS
½" MAX. x1'-0"x4½" SINGLE PLY SHIM PLATE W/ DRILLED HOLES TO MATCH SIDE PLATE
½" MAX.
DECK SUPPORT / BEAM REINF. CHANNEL PER FLOOR FRAMING PLANS
WASHER PLATE PER FLOOR FRAMING SHEETS
STIFFENER ⅊'s PER FLOOR FRAMING SHEETS
1
4
2
WIDER FOOTING WHEN OCCURS PER FOUNDATION PLAN
FOOTING PER PLAN
NOT USED

OPT. SHIM @ TOP

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

NOT USED

9

1 (2) ½"x8"x1'-0" (36 KSI) OR (2) ⅜"x8"x1'-0" (50 KSI) SIDE PLATES. LOCATION PER PLAN - SEE 3/-

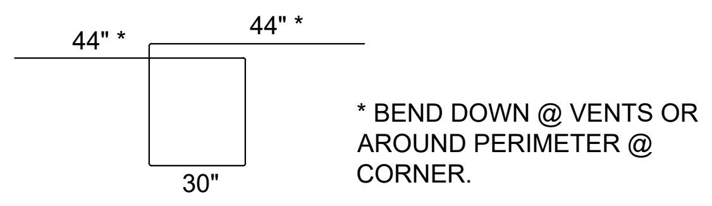
2 (2) EMBEDDED ANCHORS. LOCATION PER PLAN - SEE 5/-

3 (3) ¾"Ø M.B. THRU-BOLTED THROUGH SIDE ⅊ & FLOOR BEAM w/ $\frac{13}{16}$"Ø HOLES - SEE 8/- FOR OPTIONAL SHIM DETAIL.

4 (3) ⅝"Ø LHBM16 "HOLLO-BOLT" EXPANSION BOLTS PER ICC ESR-3330 THROUGH SIDE ⅊ INTO THE HSS OF THE EMBEDDED ANCHOR w/ $1\frac{1}{16}$"Ø HOLES
- SEE GENERAL NOTES FOR SPECS. & INSTALLATION REQUIREMENTS,
- SEE 13/- FOR OPTIONAL SHIM DETAIL.

5 (7) #3 VERTICAL HOOPS PER 12/-, FORMED PER 5/S1.4 & SPACED AS SHOWN @ ANCHORS.

6 (2) #4 BENT BARS CENTERED ON ANCHORS - (1) EA. SIDE OF ANCHORS.



* BEND DOWN @ VENTS OR AROUND PERIMETER @ CORNER.

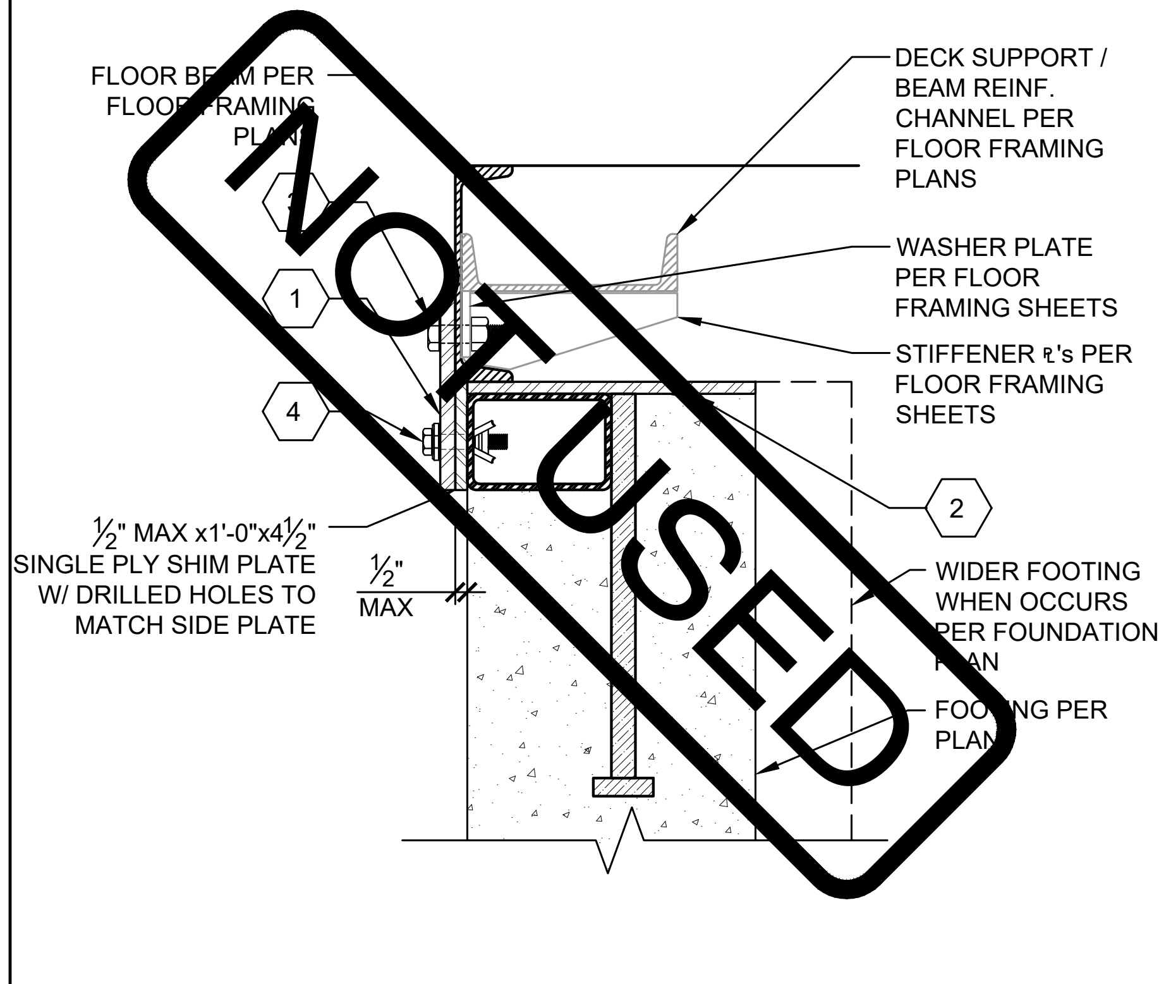
7 #3 HORIZONTAL HOOPS PER 12/-, FORMED PER 5/S1.4 & SPACED @ 6" O.C.

8 ADDITIONAL #5x8'-0" CENTERED @ ANCHOR. BEND DOWN @ VENTS OR AROUND PERIMETER @ CORNERS.

KEY NOTES

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122042 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/15/2024

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.


FLOOR BEAM PER FLOOR FRAMING PLANS
DECK SUPPORT / BEAM REINF. CHANNEL PER FLOOR FRAMING PLANS
WASHER PLATE PER FLOOR FRAMING SHEETS
STIFFENER ⅊'s PER FLOOR FRAMING SHEETS
1
4
2
½" MAX x1'-0"x4½" SINGLE PLY SHIM PLATE W/ DRILLED HOLES TO MATCH SIDE PLATE
½" MAX
WIDER FOOTING WHEN OCCURS PER FOUNDATION PLAN
FOOTING PER PLAN
NOT USED

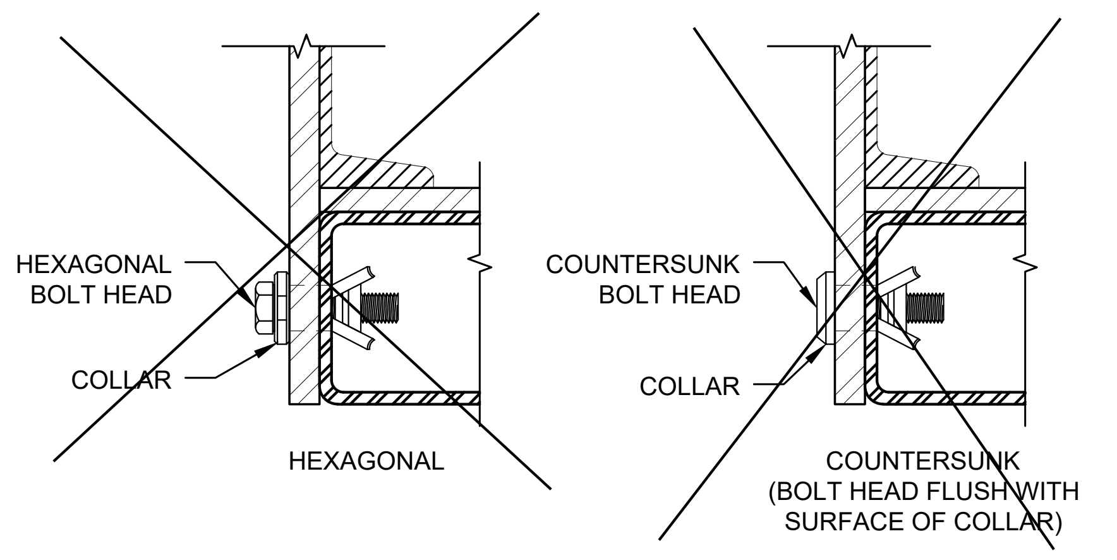
OPT. SHIM @ BOT

SCALE: 1-1/2" = 1'-0" 13

NOT USED

14

1. DETAILS ON THIS SHEET SHALL APPLY WHERE DOUBLE PLATE ANCHORAGE IS SPECIFIED ON THE FOUNDATION PLANS.
2. EACH ANCHORAGE POINT SPECIFIED ON PLAN SHALL CONSIST OF EMBEDDED ANCHORS ~~AND EITHER BOLTED SIDE PLATES OR ALTERNATE~~ DIRECT WELDS AS DETAILED ON DETAIL 2/-.
3. ANCHOR REINFORCEMENT PER DETAIL 12/- SHALL BE PLACED AT ALL EMBEDDED ANCHOR LOCATIONS.
4. ~~EXPANSION BOLTS SHALL BE "HOLLO-BOLTS" BY LINDAPTER OR AN EQUIVALENT ICC ACCEPTED BOLT.~~
5. ~~"HOLLO-BOLTS" ARE SPECIFIED AND TO BE INSTALLED PER ICC-ES REPORT ESR-3330 WITH AN INSTALLATION TIGHTENING TORQUE OF 140 FT.-LBS & ARE TO BE SUBJECT TO THE MANUFACTURER'S INSPECTION PROCEDURES FOUND ON SHEET D1 OF THESE DRAWINGS.~~
6. ~~"HOLLO-BOLT" HEADS MAY BE HEXAGONAL OR COUNTERSUNK, AS SHOWN BELOW (NOT TO SCALE). FLUSH FIT "HOLLO-BOLT" OPTION NOT PERMITTED.~~



MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRISCH
No. S3380
STRUCTURAL
RST#22214
02-08-24

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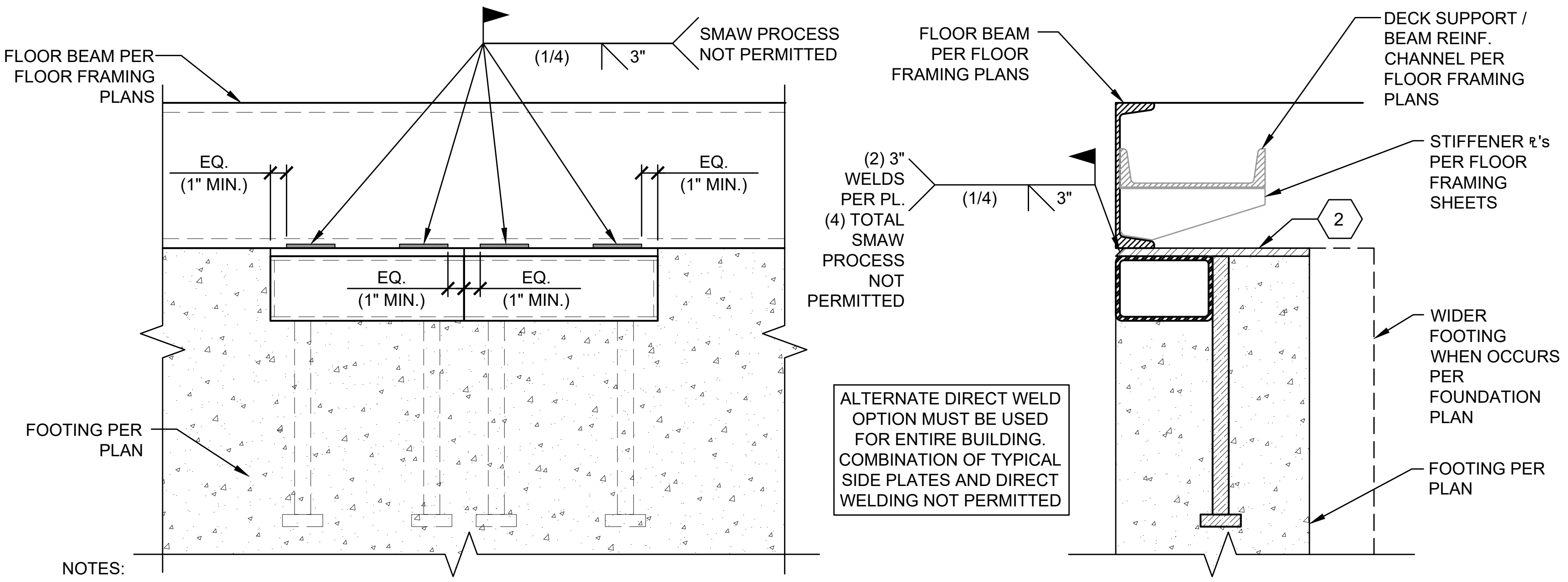
1
2
3
4

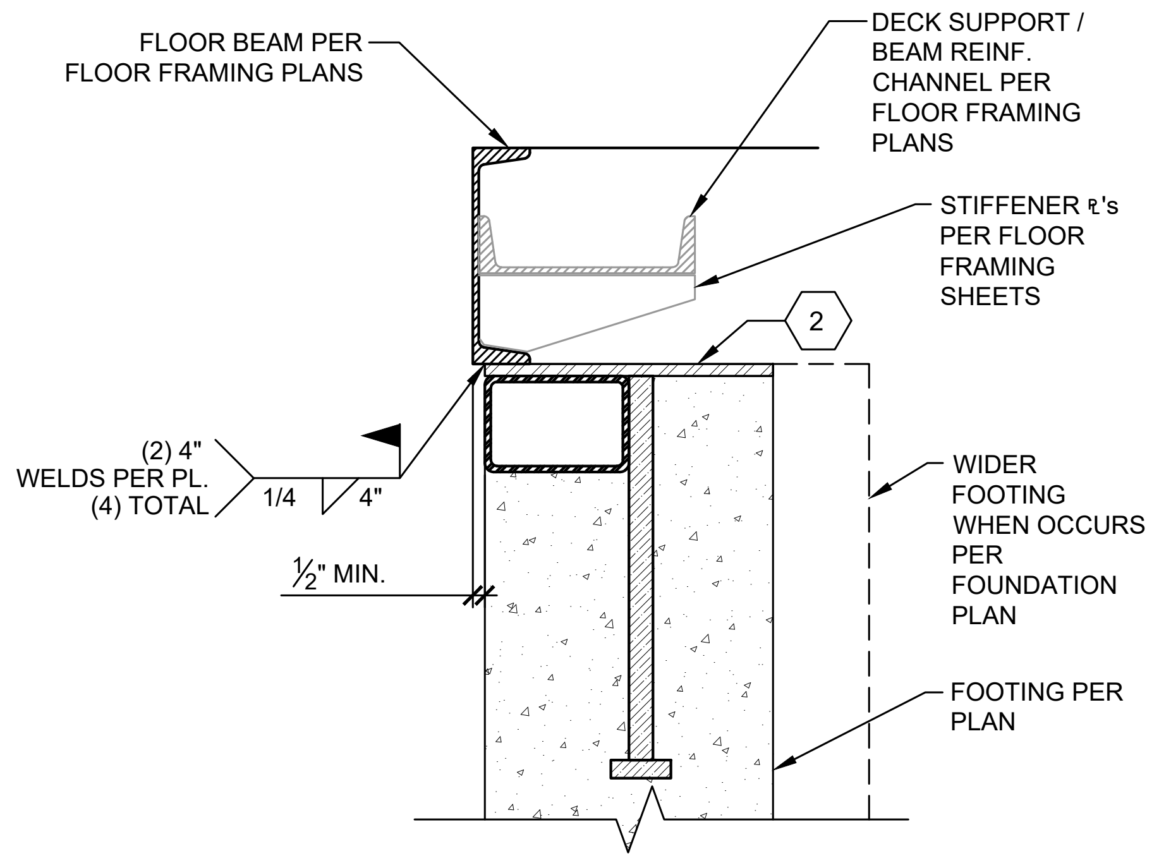

FLOOR BEAM PER FLOOR FRAMING PLANS
(1/4)
3"
SMAW PROCESS NOT PERMITTED
EQ. (1" MIN.)
EQ. (1" MIN.)
EQ. (1" MIN.)
EQ. (1" MIN.)
FOOTING PER PLAN
FLOOR BEAM PER FLOOR FRAMING PLANS
(2) 3" WELDS PER PL. (4) TOTAL SMAW PROCESS NOT PERMITTED
(1/4)
3"
DECK SUPPORT / BEAM REINF. CHANNEL PER FLOOR FRAMING PLANS
STIFFENER ⅊'s PER FLOOR FRAMING SHEETS
2
WIDER FOOTING WHEN OCCURS PER FOUNDATION PLAN
FOOTING PER PLAN

ALTERNATE DIRECT WELD OPTION MUST BE USED FOR ENTIRE BUILDING. COMBINATION OF TYPICAL SIDE PLATES AND DIRECT WELDING NOT PERMITTED

NOTES:
1. SEE 18/- FOR CONDITION WHERE FLOOR BEAM EXTENDS PAST FOOTING.
2. SEE 19/- FOR CONDITION WHERE FOOTING EXTENDS PAST FLOOR BEAM.
3. WHEN ALTERNATE DIRECT WELD OPTION IS USED, IT MUST BE USED FOR THE ENTIRE BUILDING. COMBINATION OF TYPICAL SIDE PLATES & DIRECT WELDING IS NOT PERMITTED.

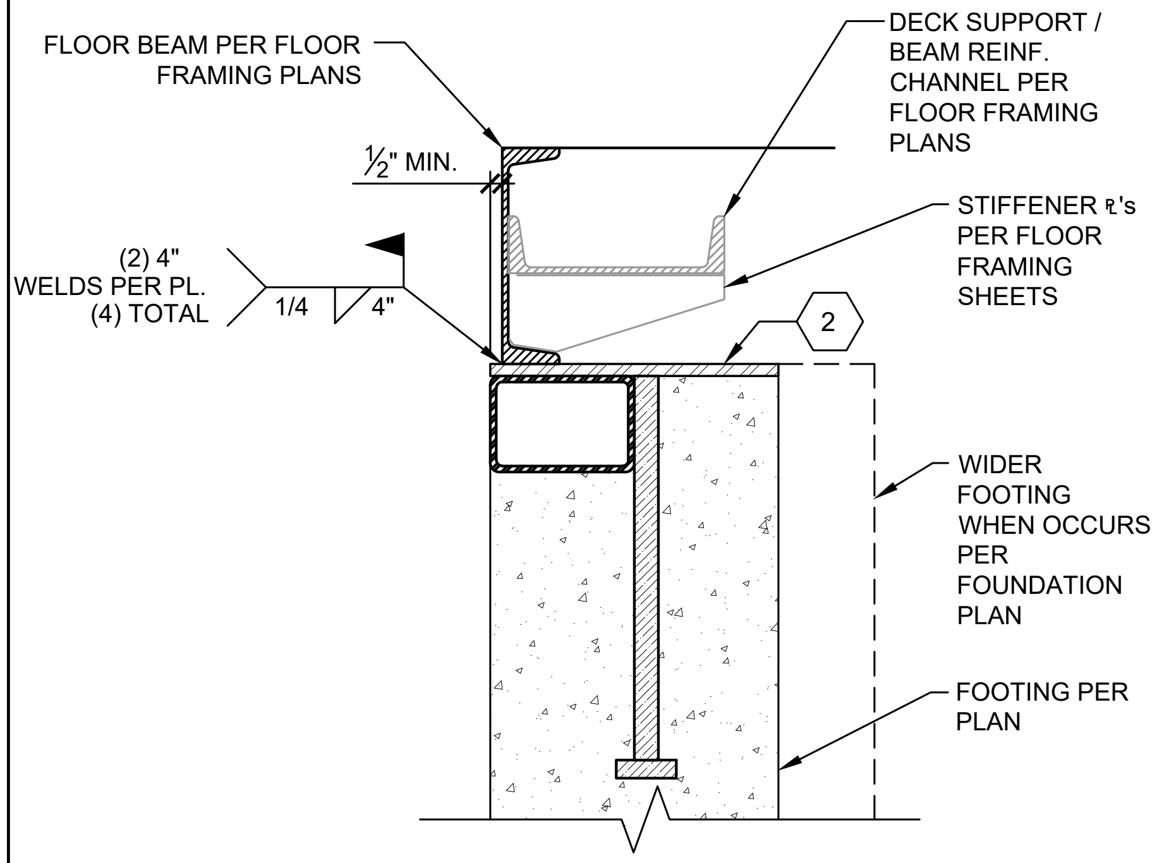
ALTERNATE DIRECT WELD CONNECTION

SCALE: 1-1/2" = 1'-0" 17


FLOOR BEAM PER FLOOR FRAMING PLANS
DECK SUPPORT / BEAM REINF. CHANNEL PER FLOOR FRAMING PLANS
STIFFENER ⅊'s PER FLOOR FRAMING SHEETS
2
(2) 4" WELDS PER PL. (4) TOTAL
1/4
4"
½" MIN.
WIDER FOOTING WHEN OCCURS PER FOUNDATION PLAN
FOOTING PER PLAN

ALTERNATE DIRECT WELD @ OFFSET

SCALE: 1-1/2" = 1'-0" 18


FLOOR BEAM PER FLOOR FRAMING PLANS
½" MIN.
(2) 4" WELDS PER PL. (4) TOTAL
1/4
4"
DECK SUPPORT / BEAM REINF. CHANNEL PER FLOOR FRAMING PLANS
STIFFENER ⅊'s PER FLOOR FRAMING SHEETS
2
WIDER FOOTING WHEN OCCURS PER FOUNDATION PLAN
FOOTING PER PLAN

ALTERNATE DIRECT WELD @ OFFSET

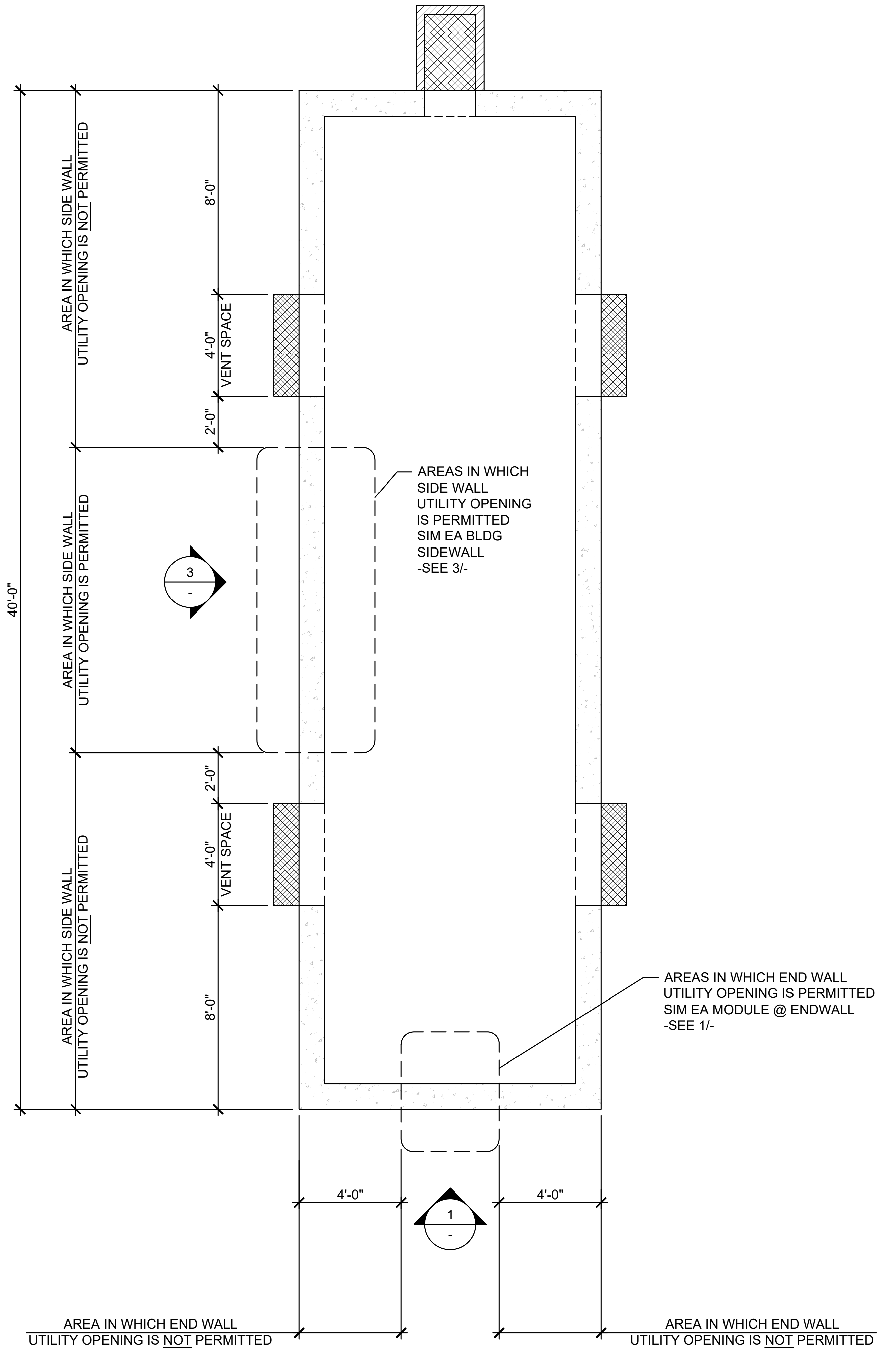
SCALE: 1-1/2" = 1'-0" 19

GENERAL NOTES

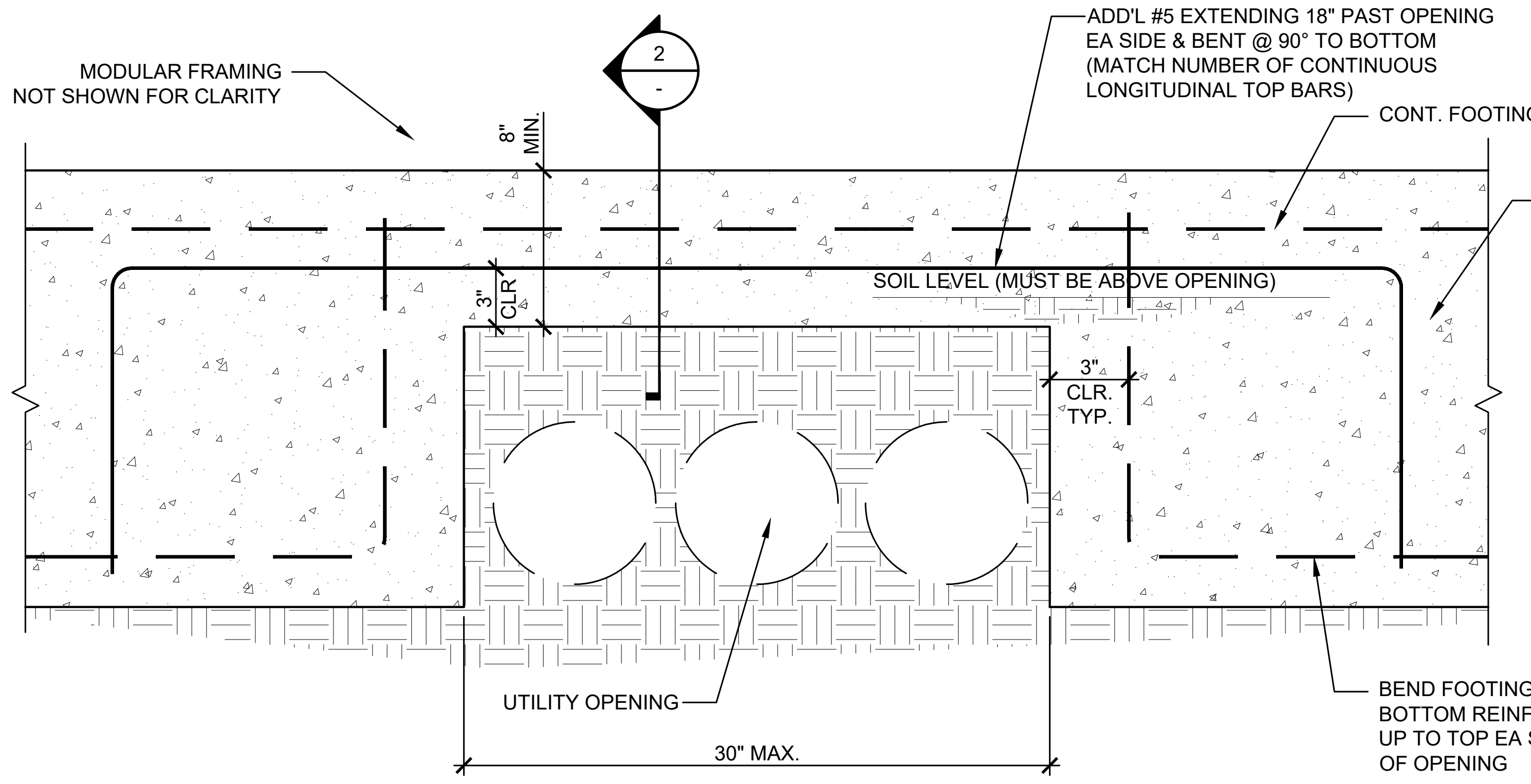
DRAWN BY:
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-XX

SHEET TITLE:
DOUBLE PLATE ANCHORAGE FOUNDATION DETAILS

SHEET NUMBER:
S1.6C

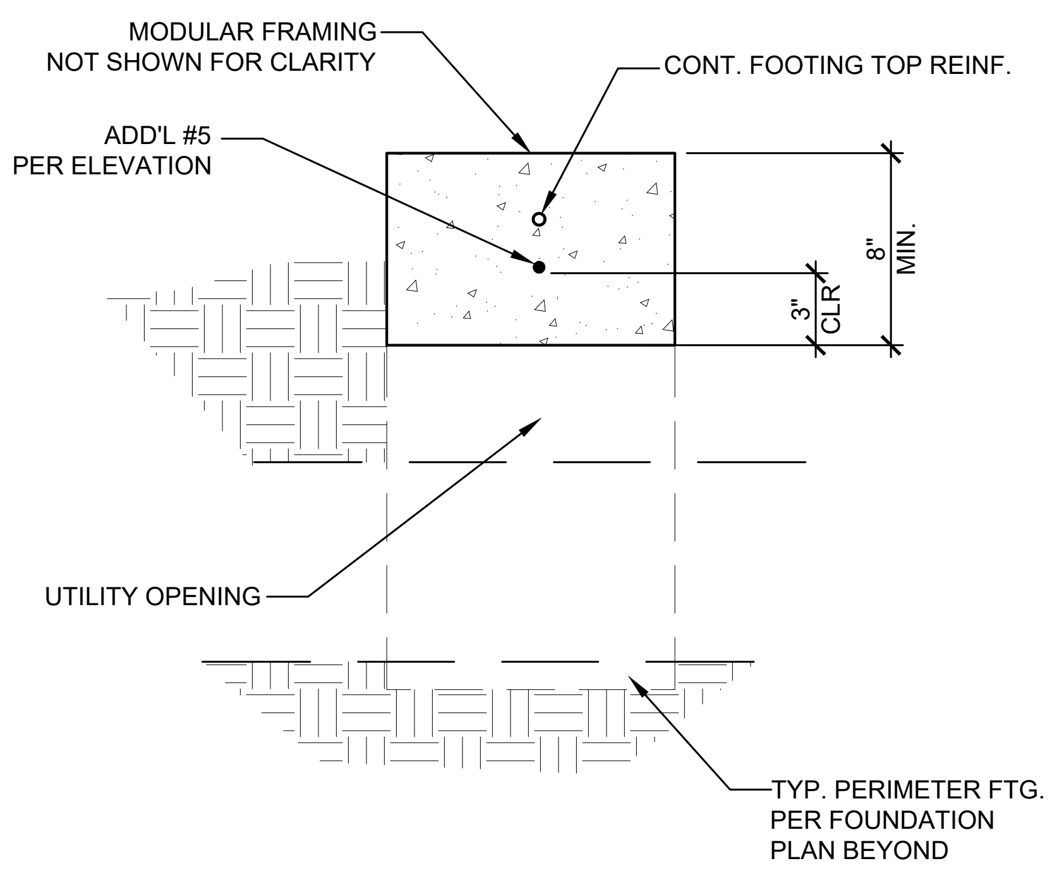


☐ OPTIONAL UTILITY OPENINGS PLAN — SCALE: 1/4"=1'-0" — A

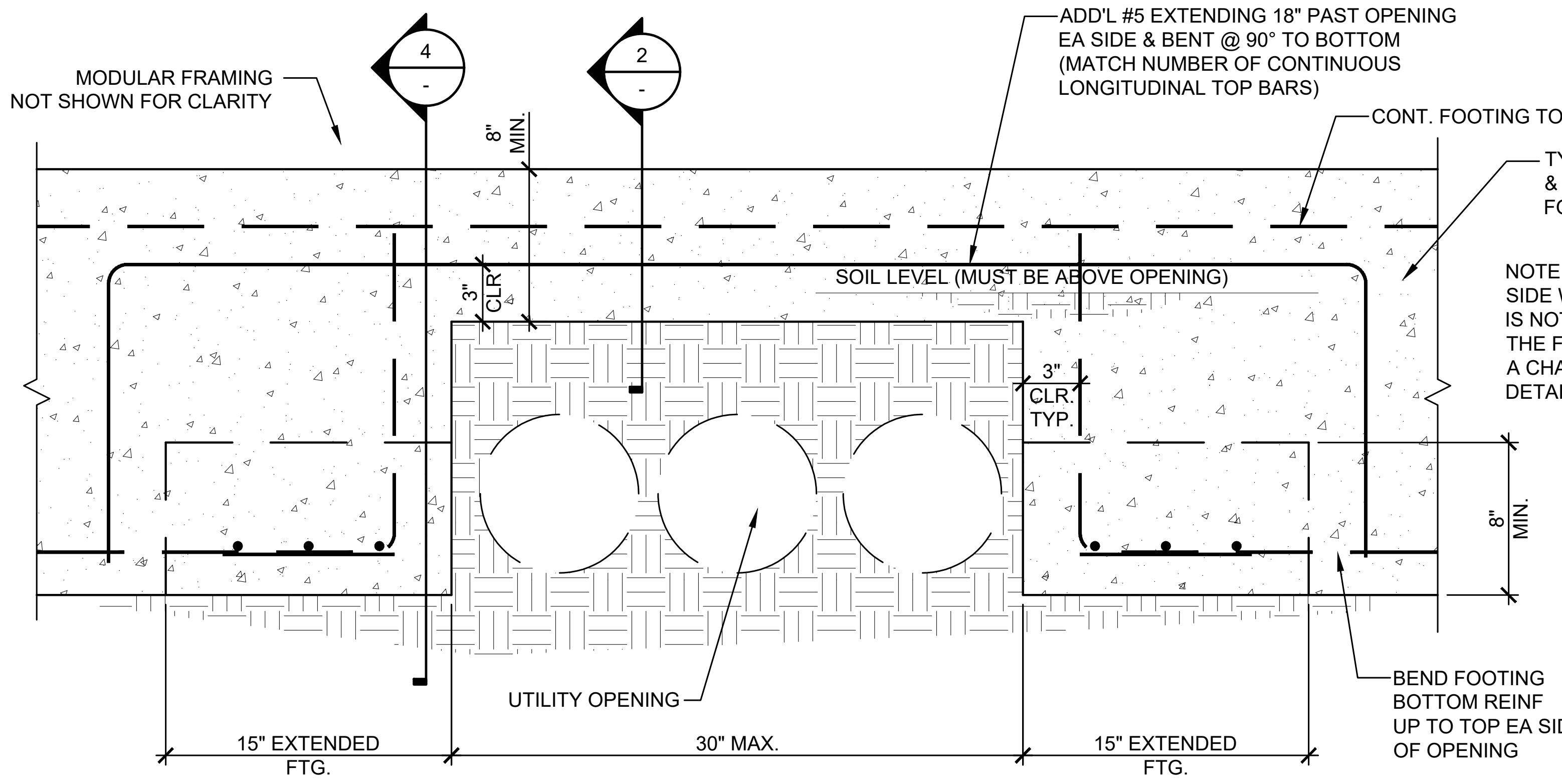


NOTE:
END WALL UTILITY OPENING IS NOT PERMITTED WITHIN THE SAME MODULE FRAME WHERE AN OPTIONAL ACCESS/VENT OCCURS NOR WHERE THE FOOTING UTILIZES A CHAMFER AS PER DETAIL 3/S1.5.

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

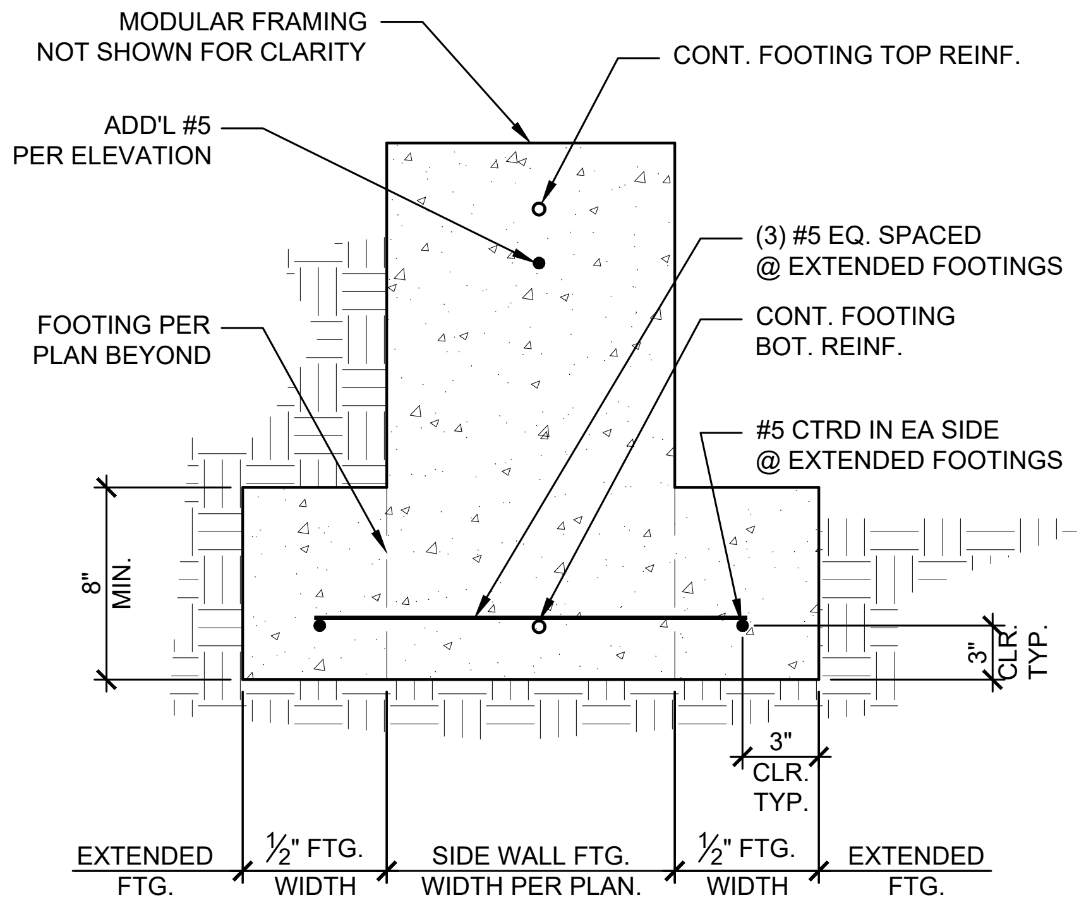


DETAIL — SCALE: 1 1/2"=1'-0" — 2



NOTE:
SIDE WALL UTILITY OPENING IS NOT PERMITTED WHERE THE FOOTING UTILIZES A CHAMFER AS PER DETAIL 3/S1.5.

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



DETAIL — SCALE: 1 1/2"=1'-0" — 4

NOT USED — 5

NOT USED — 6

NOT USED — 7

NOT USED — 8

NOT USED — 9

NOT USED — 10

NOT USED — 11

NOT USED — 12

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DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

FORM®

SITE SPECIFIC PROJECT NAME
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.
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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122042 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/15/2024

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

MANNY D. FRISCH
No. S3380
RST#22214
02-08-24

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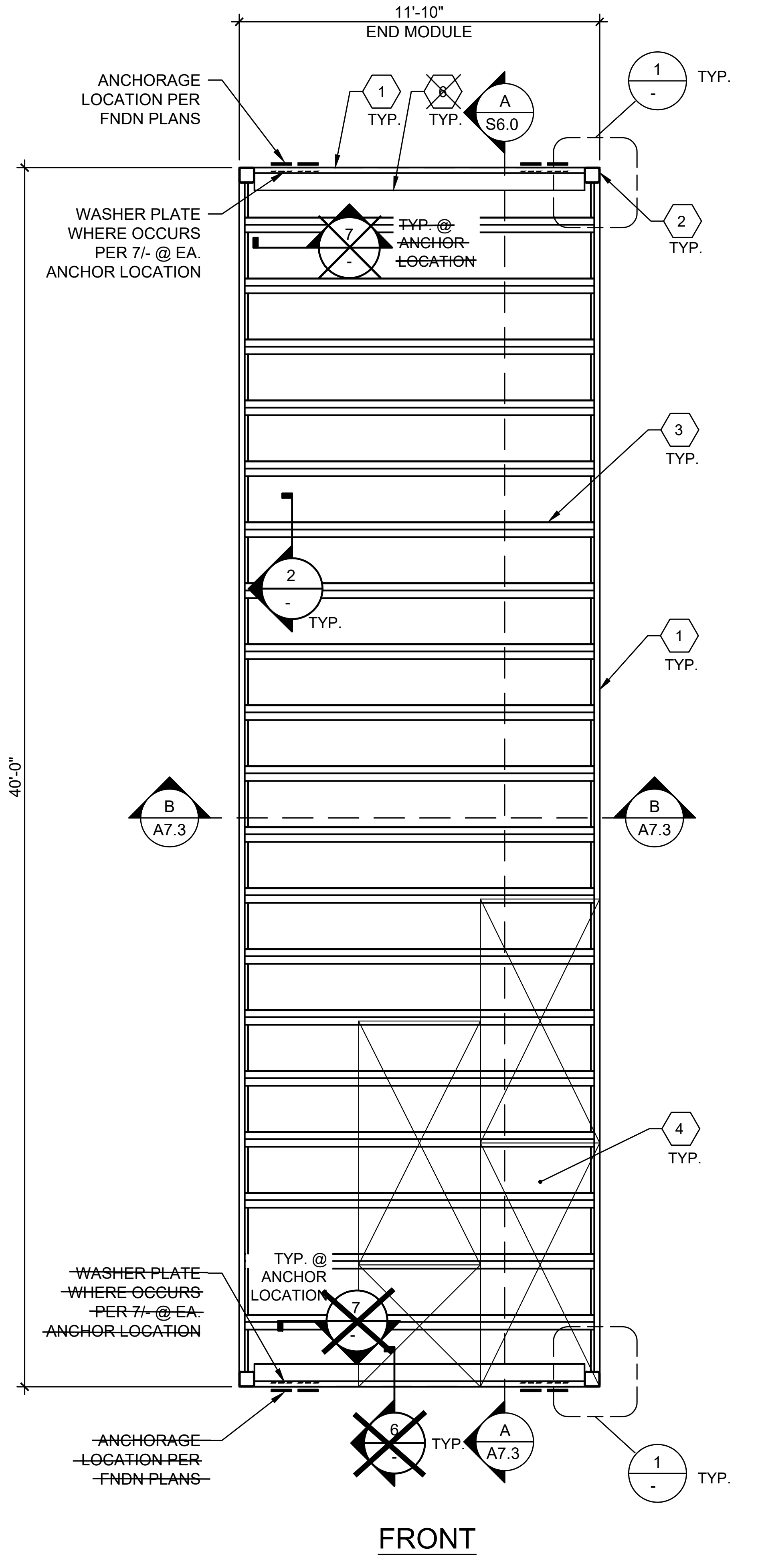
1
2
3
4

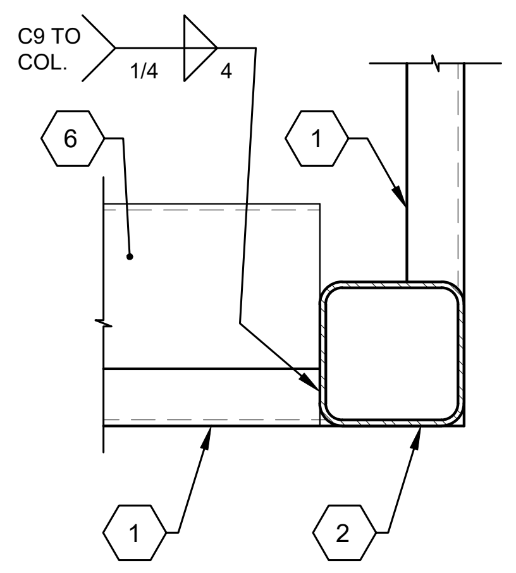
DRAWN BY:	
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-XX

SHEET TITLE:
CONCRETE FOUNDATION
OPTIONAL UTILITY
OPENINGS IN FOOTINGS

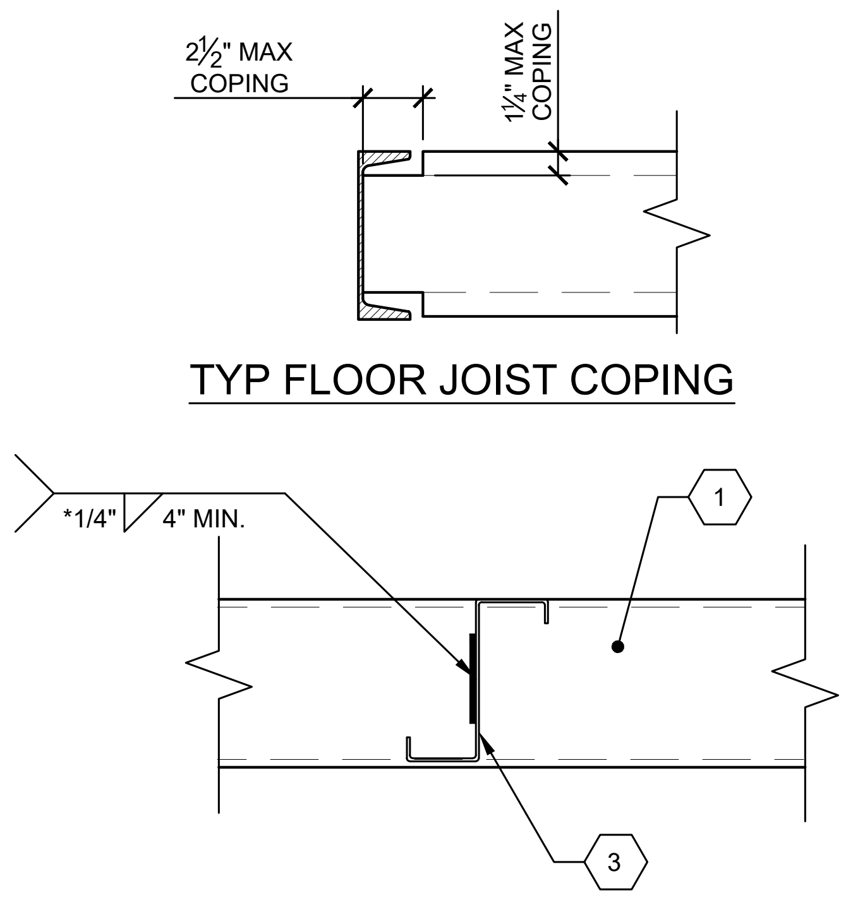
SHEET NUMBER:
S1.7


11'-10"
END MODULE
ANCHORAGE LOCATION PER FNDN PLANS
WASHER PLATE WHERE OCCURS PER 7/- @ EA. ANCHOR LOCATION
~~TYP. @ ANCHOR LOCATION~~
~~WASHER PLATE WHERE OCCURS PER 7/- @ EA. ANCHOR LOCATION~~
TYP. @ ANCHOR LOCATION
~~ANCHORAGE LOCATION PER FNDN PLANS~~
A
S6.0
A
A7.3
B
A7.3
1
2
3
4
7
TYP.
40'-0"
FRONT

FRAMING PLAN (PLYWOOD FLOOR)
SCALE : 1/4" = 1'-0" A



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



TYP FLOOR JOIST COPING

* NOTE: SEE NOTE #5 OF GENERAL NOTES

TYP. JOIST ATTACHMENT TO BEAM
SCALE : 3" = 1'-0" 2

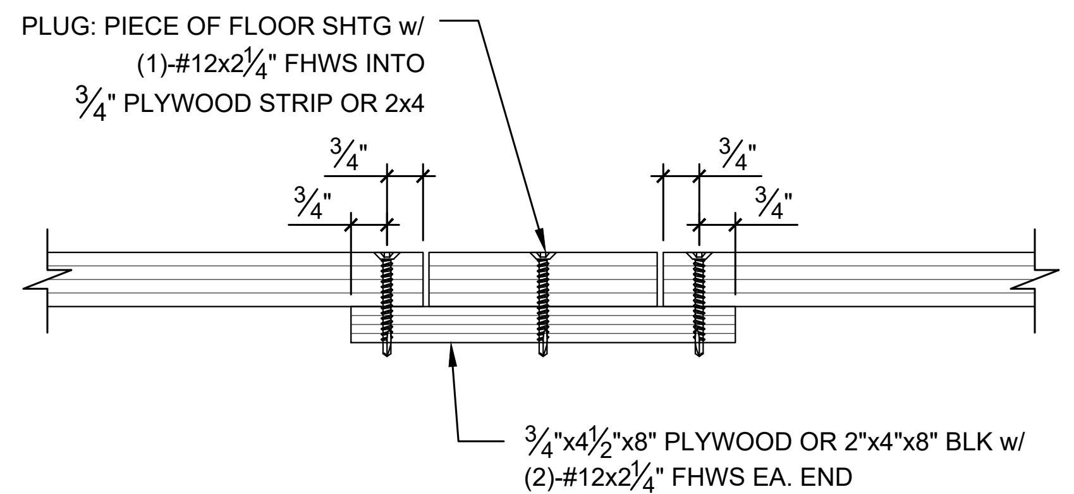
KEY NOTES

1. FLOOR BEAM PER SHEET S5.0.
USE SINGLE SIZE CHANNEL THROUGHOUT FLOOR SYSTEM.
2. HSS COLUMN PER SHEET S5.0
3. FLOOR JOIST - SEE SCHEDULE
4. $1\frac{1}{8}$" T&G PLYWOOD FLOOR SHTG STURDI-I-FLOOR 48" O.C. SPAN RATING EXP. 1 CONFORMING TO PS 1-19, 2 SPANS MIN. OPTION: UNI-FLOOR BY PITTSBURGH TESTING LAB CONFORMING TO PS 1-19. STAGGER SHEETS 48" O.C. AS SHOWN w/ FACE GRAIN PERPENDICULAR TO FLOOR JOISTS. FASTEN PER SCHEDULES.
5. NOT USED
6. ~~C9x13.4 TRANSVERSE FLOOR BEAM REINFORCING CHANNEL PER DETAIL 6/-. C9 MAY HAVE 3"Ø MAX HOLES THRU WEB WITHOUT WEB REINFORCEMENT PER THE FOLLOWING:~~
    1. ~~HOLES MUST BE CENTERED ON WEB.~~
    2. ~~MULTIPLE HOLES MUST BE SPACED A MIN. OF 24" APART.~~
    3. ~~HOLES MUST BE 24" MIN. FROM INSIDE FACE OF COLUMNS.~~

NOT USED
3

GENERAL NOTES

1. NOT USED
2. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.O. THE MATERIAL GAUGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
3. SDSTS PER ASTM C1513 AND ICC ESR-1976 (OR EQUAL)
4. ET&F PINS PER IAPMO REPORT ER-335
5. MAX FILLET WELD SIZE SHALL BE EQUAL TO THE THICKNESS OF THE THINNER SHEET STEEL (AWS D1.3, SECTION 2.3.3)


PLUG: PIECE OF FLOOR SHTG w/ (1)-#12x$2\frac{1}{4}$" FHWS INTO $\frac{3}{4}$" PLYWOOD STRIP OR 2x4
$\frac{3}{4}$"
$\frac{3}{4}$"
$\frac{3}{4}$"
$\frac{3}{4}$"
$\frac{3}{4}$"x$4\frac{1}{2}$"x8" PLYWOOD OR 2"x4"x8" BLK w/ (2)-#12x$2\frac{1}{4}$" FHWS EA. END

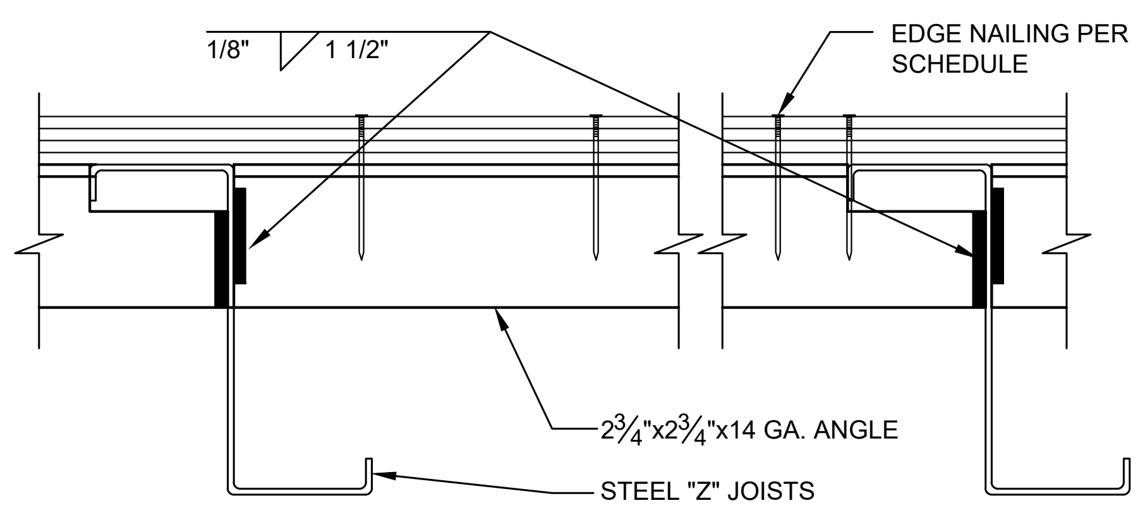
TYP. ACCESS HOLE FILLER
SCALE : 3" = 1'-0" 4

FOR 'B' OFFICE OCCUPANCIES 12 GA FLOOR JOISTS MUST BE USED

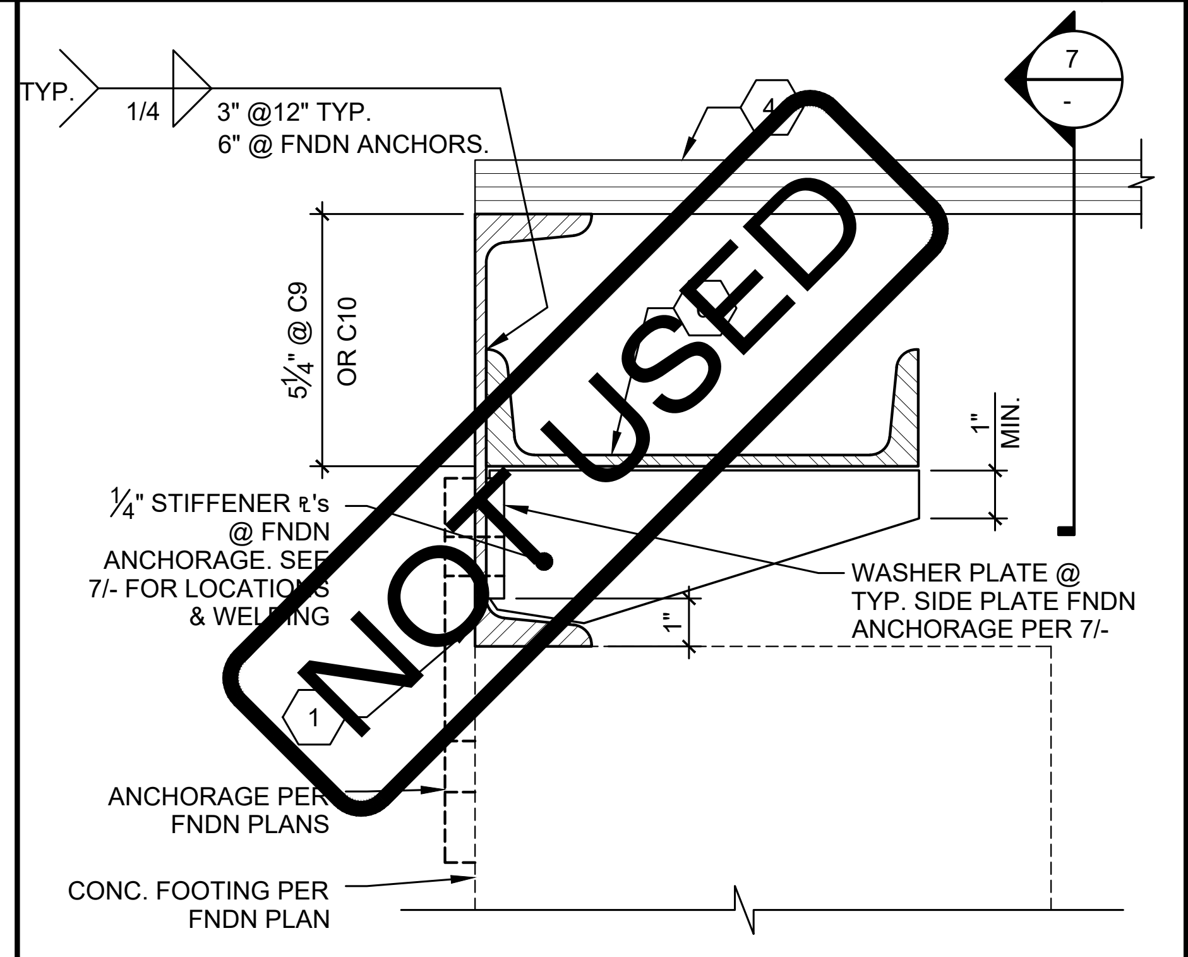
FLOOR JOIST SCHEDULE		
LIVE LOAD PSF	14 GA. JOIST	12 GA. JOIST
☐ 50 PSF	24" O.C.	24" O.C.
☒ 50+15 PSF	24" O.C.	24" O.C.
☐ 100 PSF	24" O.C.	24" O.C.

NOTE: FOR SECTION PROPERTIES - SEE S0.0
EITHER 14GA OR 12GA ARE ACCEPTABLE BASED ON CURRENT AVAILABILITIES.

FLOOR JOISTS SCHEDULE


1/8"
1 1/2"
EDGE NAILING PER SCHEDULE
$2\frac{3}{4}$"x$2\frac{3}{4}$"x14 GA. ANGLE
STEEL "Z" JOISTS

OPTIONAL BLOCKING ANGLE ATTACHMENT
SCALE : 3" = 1'-0" 5


NOT USED
TYP.
1/4
3" @12" TYP.
6" @ FNDN ANCHORS.
7
-
4
$5\frac{1}{4}$" @ C9 OR C10
1" MIN.
1"
$\frac{1}{4}$" STIFFENER ℄'s @ FNDN ANCHORAGE. SEE 7/- FOR LOCATIONS & WELDING
WASHER PLATE @ TYP. SIDE PLATE FNDN ANCHORAGE PER 7/-
1
ANCHORAGE PER FNDN PLANS
CONC. FOOTING PER FNDN PLAN

TYP. TRANSVERSE FLOOR BEAM REINRCING
(NOT REQ'D LONGITUDINAL FLOOR BEAMS)
SCALE : 3" = 1'-0" 6

NOT USED

FASTENING SPACING SCHEDULE

TYP. FASTENER SPACING SCHEDULE		
BOUNDARY FASTENING*	EDGE FASTENING	FIELD FASTENING
#10 OR #12x$2\frac{1}{4}$" SDSTS	0.144"Øx2" ET&F PINS	0.144"Øx2" ET&F PINS
6" O.C.	6" O.C.	12" O.C.

*BOUNDARY FASTENING IS APPLIED TO PERIMETER OF ALL MODULES ALONG FRAME LINES

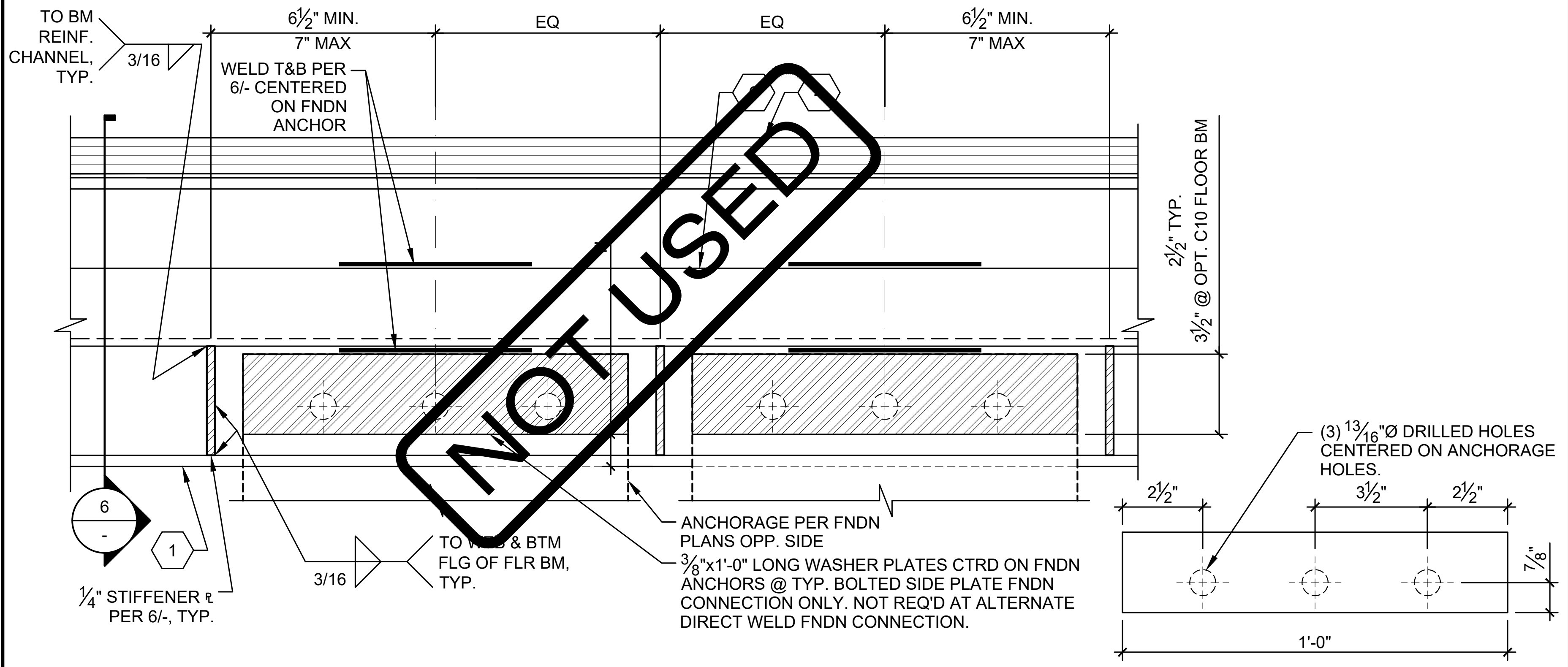
NOTE: SCHEDULE APPLIES TO ALL FLOOR LIVE LOADS
REFER TO GENERAL NOTE #3 FOR ICC ESR#

ALT. FASTENING SPACING SCHEDULE

ALT. FASTENER SPACING SCHEDULE		
BOUNDARY FASTENING*	EDGE FASTENING	FIELD FASTENING
#10 OR #12x$2\frac{1}{4}$" SDSTS	#10 OR #12x$2\frac{1}{4}$" SDSTS	#10 OR #12x$2\frac{1}{4}$" SDSTS
6" O.C.	6" O.C.	12" O.C.

*BOUNDARY FASTENING IS APPLIED TO PERIMETER OF ALL MODULES ALONG FRAME LINES

NOTE: SCHEDULE APPLIES TO ALL FLOOR LIVE LOADS
REFER TO GENERAL NOTE #3 FOR ICC ESR#


NOT USED
TO BM REINF. CHANNEL, TYP.
3/16
$6\frac{1}{2}$" MIN.
7" MAX
EQ
EQ
$6\frac{1}{2}$" MIN.
7" MAX
WELD T&B PER 6/- CENTERED ON FNDN ANCHOR
$2\frac{1}{2}$" TYP.
$3\frac{1}{2}$" @ OPT. C10 FLOOR BM
6
-
1
$\frac{1}{4}$" STIFFENER ℄ PER 6/-, TYP.
3/16
TO WEB & BTM FLG OF FLR BM, TYP.
ANCHORAGE PER FNDN PLANS OPP. SIDE
$\frac{3}{8}$"x1'-0" LONG WASHER PLATES CTRD ON FNDN ANCHORS @ TYP. BOLTED SIDE PLATE FNDN CONNECTION ONLY. NOT REQ'D AT ALTERNATE DIRECT WELD FNDN CONNECTION.
(3) $\frac{13}{16}$"Ø DRILLED HOLES CENTERED ON ANCHORAGE HOLES.
$2\frac{1}{2}$"
$3\frac{1}{2}$"
$2\frac{1}{2}$"
$\frac{7}{8}$"
1'-0"

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

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DATE: 04/08/26

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

FORM

SITE SPECIFIC PROJECT NAME
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~~DIV. OF THE STATE ARCHITECT~~
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~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ 2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

MANNY D. FRISCH
No. S3380
RST#22214
02-08-24

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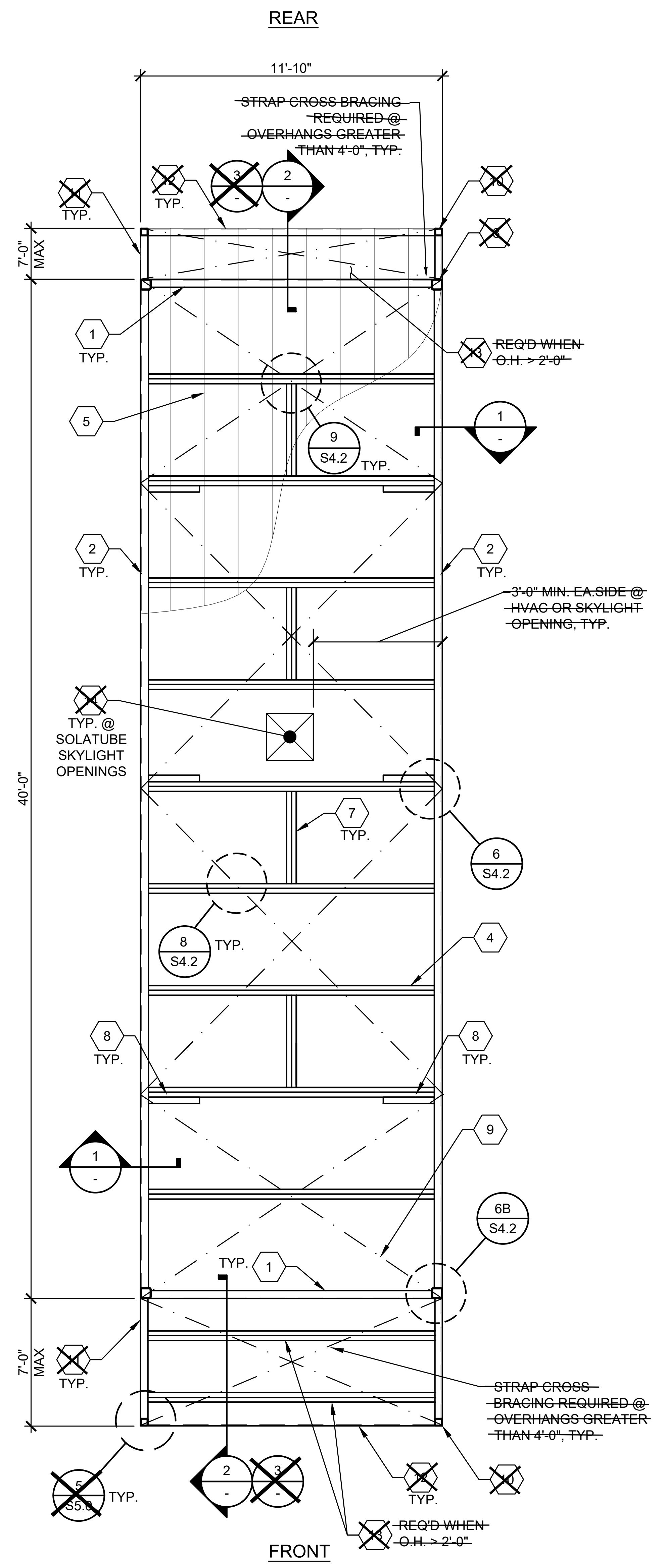
DRAWN BY:
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-XX

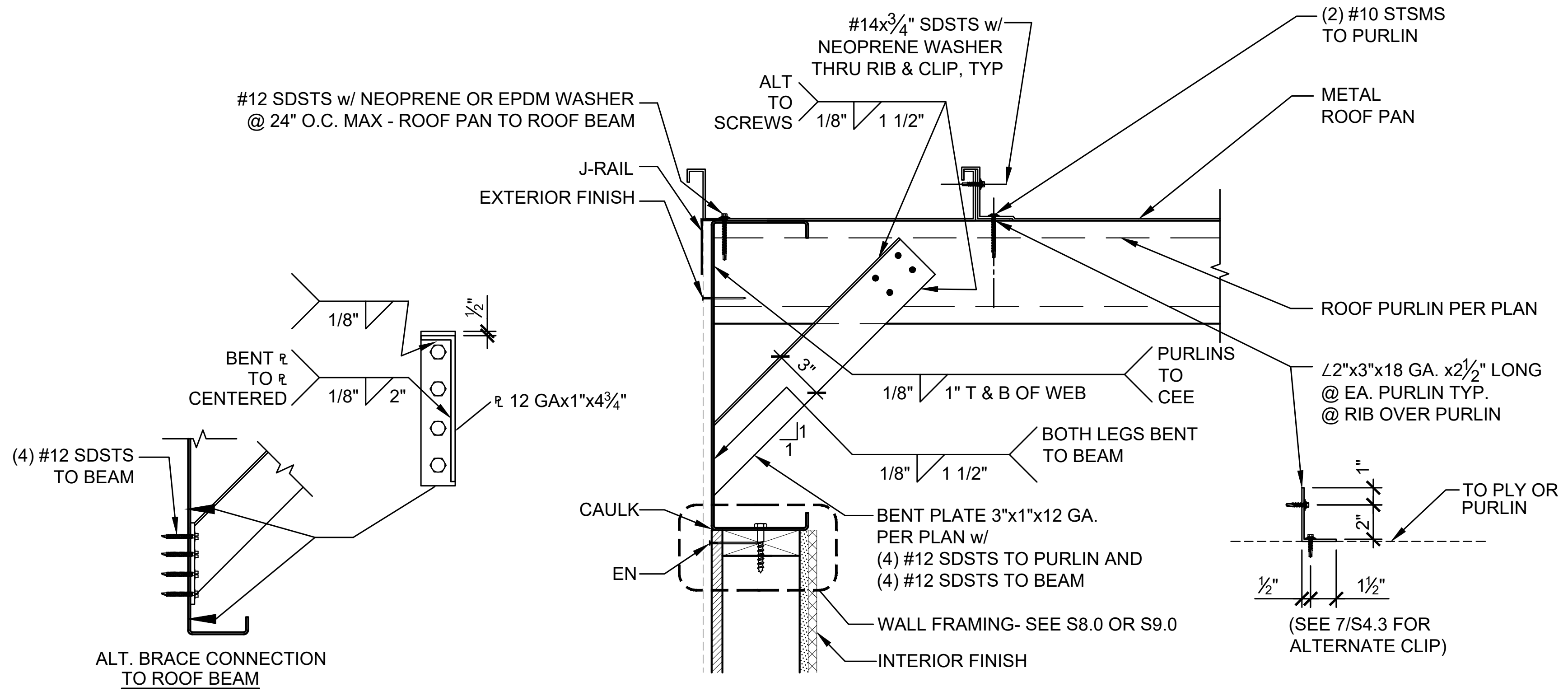
SHEET TITLE:
FLOOR FRAMING PLAN & DETAILS FOR PLYWOOD FLOOR

SHEET NUMBER:
S3.0


REAR
11'-10"
~~STRAP CROSS BRACING REQUIRED @ OVERHANGS GREATER THAN 4'-0", TYP.~~
TYP.
TYP.
3
-
2
-
7'-0" MAX
1
TYP.
~~REQ'D WHEN O.H. > 2'-0"~~
5
1
-
9
S4.2
TYP.
2
TYP.
2
TYP.
~~3'-0" MIN. EA.SIDE @ HVAC OR SKYLIGHT OPENING, TYP.~~
TYP. @ SOLATUBE SKYLIGHT OPENINGS
40'-0"
7
TYP.
6
S4.2
8
S4.2
TYP.
4
8
TYP.
8
TYP.
9
1
-
6B
S4.2
TYP.
1
7'-0" MAX
TYP.
~~STRAP CROSS BRACING REQUIRED @ OVERHANGS GREATER THAN 4'-0", TYP.~~
TYP.
2
-
TYP.
~~REQ'D WHEN O.H. > 2'-0"~~
FRONT

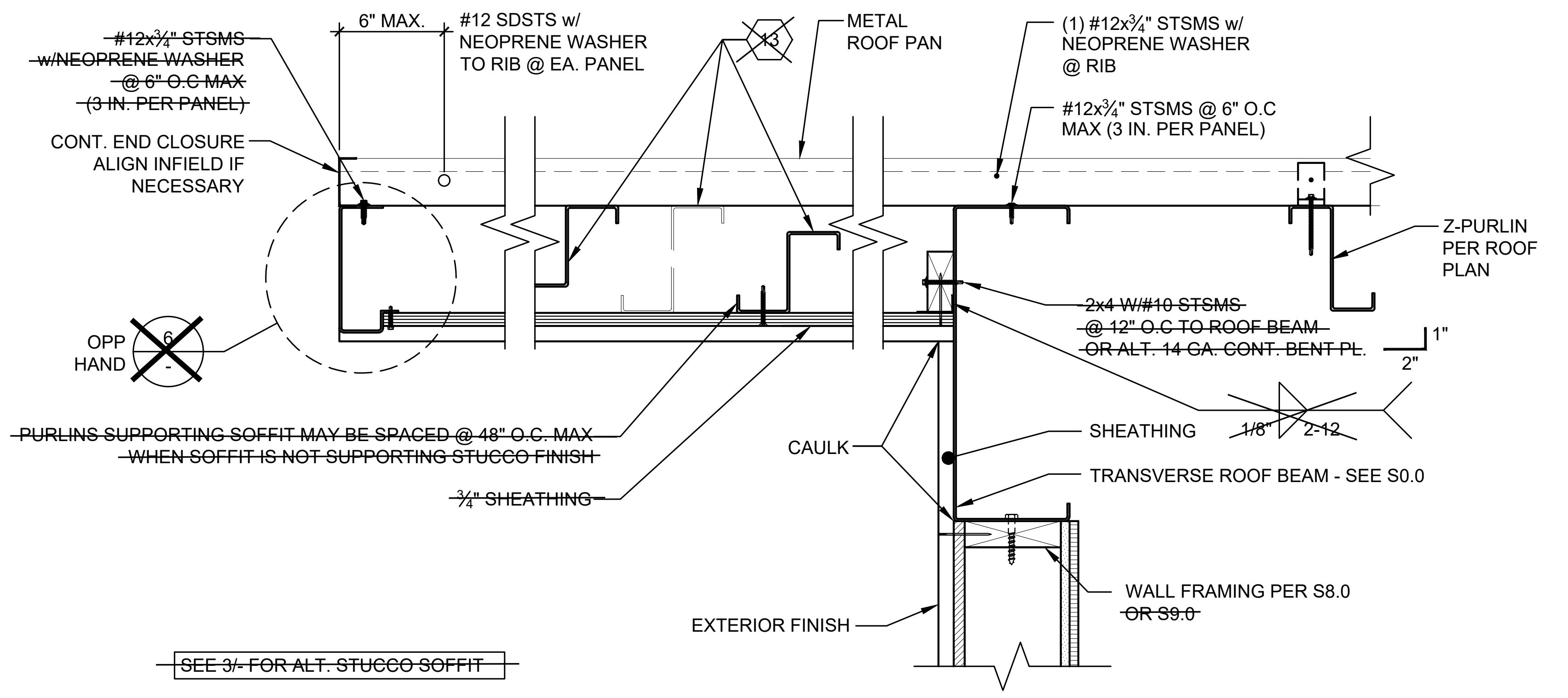
TYPICAL ROOF FRAMING LAYOUT

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


#12 SDSTS w/ NEOPRENE OR EPDM WASHER @ 24" O.C. MAX - ROOF PAN TO ROOF BEAM
#14x¾" SDSTS w/ NEOPRENE WASHER THRU RIB & CLIP, TYP
ALT TO SCREWS 1/8" 1 1/2"
(2) #10 STSMS TO PURLIN
METAL ROOF PAN
J-RAIL
EXTERIOR FINISH
ROOF PURLIN PER PLAN
1/8"
½"
BENT ℘ TO ℘ CENTERED 1/8" 2"
℘ 12 GAx1"x4¾"
3"
1/8" 1" T & B OF WEB
PURLINS TO CEE
∠2"x3"x18 GA. x2½" LONG @ EA. PURLIN TYP. @ RIB OVER PURLIN
(4) #12 SDSTS TO BEAM
1
1
1/8" 1 1/2"
BOTH LEGS BENT TO BEAM
1"
2"
TO PLY OR PURLIN
CAULK
BENT PLATE 3"x1"x12 GA. PER PLAN w/ (4) #12 SDSTS TO PURLIN AND (4) #12 SDSTS TO BEAM
EN
½"
1½"
WALL FRAMING- SEE S8.0 OR S9.0
(SEE 7/S4.3 FOR ALTERNATE CLIP)
INTERIOR FINISH
ALT. BRACE CONNECTION TO ROOF BEAM

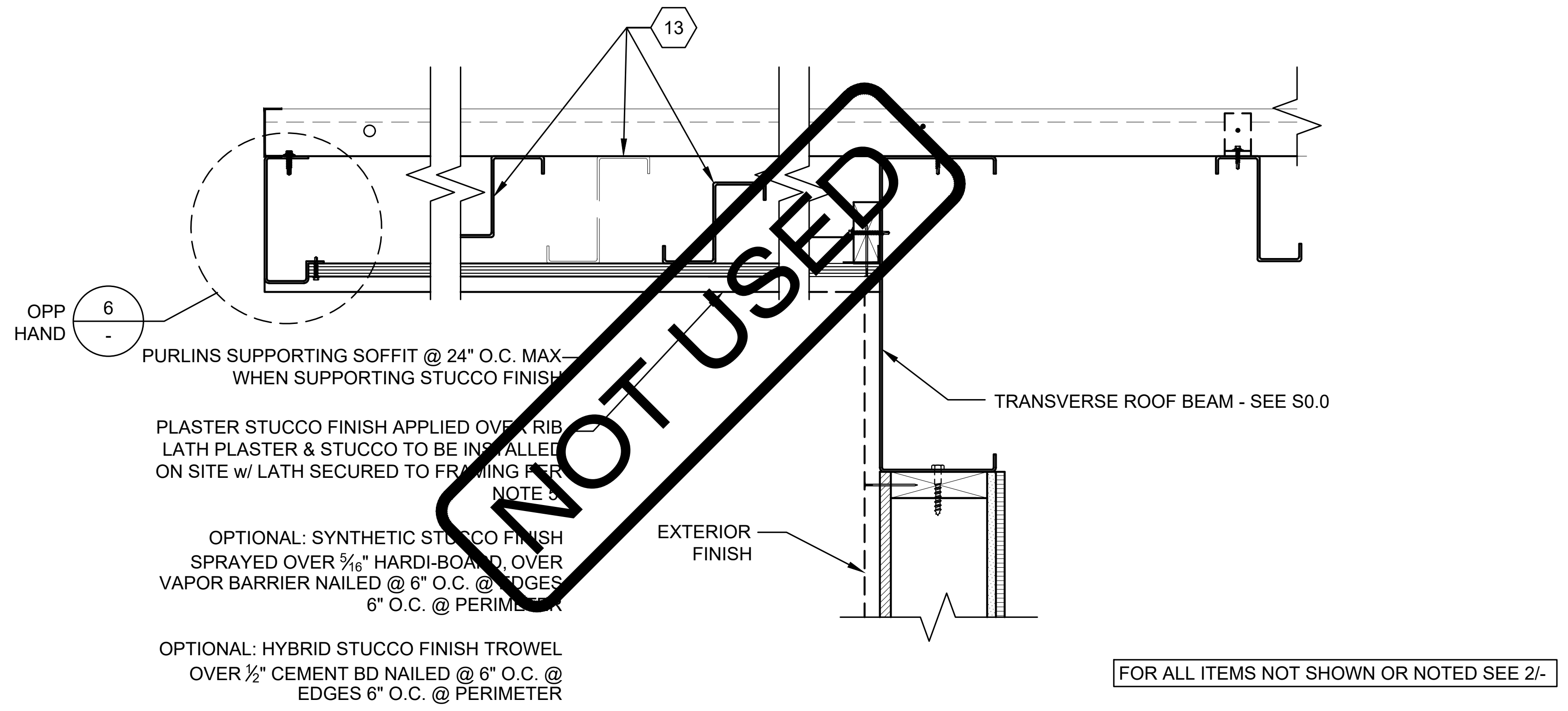
SIDE WALL TO ROOM BEAM DETAIL

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


6" MAX.
~~#12x¾" STSMS w/NEOPRENE WASHER @ 6" O.C MAX (3 IN. PER PANEL)~~
#12 SDSTS w/ NEOPRENE WASHER TO RIB @ EA. PANEL
13
METAL ROOF PAN
(1) #12x¾" STSMS w/ NEOPRENE WASHER @ RIB
#12x¾" STSMS @ 6" O.C MAX (3 IN. PER PANEL)
CONT. END CLOSURE ALIGN INFIELD IF NECESSARY
Z-PURLIN PER ROOF PLAN
~~2x4 W/#10 STSMS @ 12" O.C TO ROOF BEAM OR ALT. 14 GA. CONT. BENT PL.~~
1"
2"
OPP HAND
6
-
~~1/8" 2-12~~
~~PURLINS SUPPORTING SOFFIT MAY BE SPACED @ 48" O.C. MAX WHEN SOFFIT IS NOT SUPPORTING STUCCO FINISH~~
SHEATHING
CAULK
TRANSVERSE ROOF BEAM - SEE S0.0
~~¾" SHEATHING~~
WALL FRAMING PER S8.0 ~~OR S9.0~~
EXTERIOR FINISH
~~SEE 3/- FOR ALT. STUCCO SOFFIT~~

OVERHANG DETAIL

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


13
NOT USED
OPP HAND
6
-
PURLINS SUPPORTING SOFFIT @ 24" O.C. MAX WHEN SUPPORTING STUCCO FINISH
TRANSVERSE ROOF BEAM - SEE S0.0
PLASTER STUCCO FINISH APPLIED OVER RIB LATH PLASTER & STUCCO TO BE INSTALLED ON SITE w/ LATH SECURED TO FRAMING PER NOTE 5
OPTIONAL: SYNTHETIC STUCCO FINISH SPRAYED OVER 5/16" HARDI-BOARD, OVER VAPOR BARRIER NAILED @ 6" O.C. @ EDGES 6" O.C. @ PERIMETER
EXTERIOR FINISH
OPTIONAL: HYBRID STUCCO FINISH TROWEL OVER ½" CEMENT BD NAILED @ 6" O.C. @ EDGES 6" O.C. @ PERIMETER
FOR ALL ITEMS NOT SHOWN OR NOTED SEE 2/-

ALTERNATE OVERHANG DETAIL w/ STUCCO SOFFIT

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

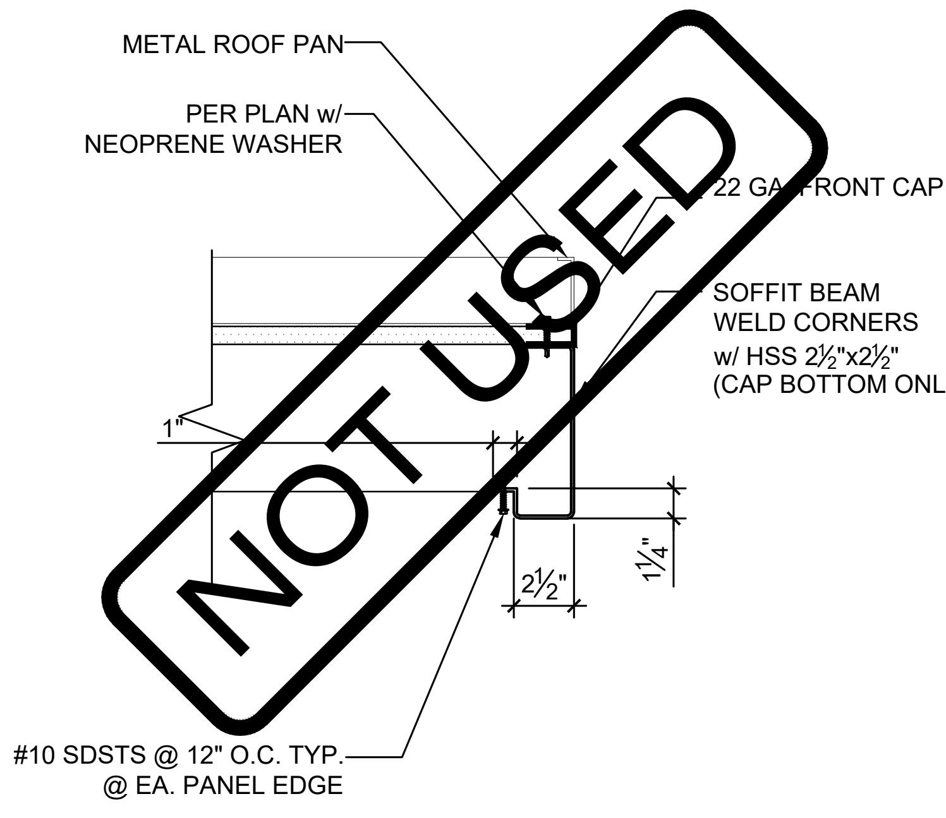
1	TRANSVERSE ROOF BEAM PER SHEET S5.0.
2	LONGITUDINAL ROOF BEAM PER SHEET S5.0.
3	HSS COLUMN PER SHEET S5.0.
4	ROOF PURLINS @ 48" O.C. MAX. -SEE SHEET S0.0
5	20 GA. METAL ROOF PAN - SEE SHEET S0.0.
6	NOT USED
7	MID-SPAN PURLIN BLOCKING WELD TO ROOF PURLINS PER DETAIL 3/S4.2 BLOCKING IS REQUIRED AT PURLINS WITH DIAGONAL BEAM BRACING AT EXTERIOR SIDE WALLS PER 8 BELOW.
8	3x1x12 GA. BENT PLATE DIAGONAL BRACE TO ROOF BEAM @ 8'-0" FROM HSS COLUMNS & @ MIDSPAN IF SINGLE PITCH OR (2) @ RIDGE IF DUAL PITCH PROVIDE PURLIN BLOCKING @ EACH BRACE ONLY PER 7 ABOVE.
9	2"x16GA (GRADE 50) STEEL STRAP CROSS BRACING ALTERNATE: 3"x18GA (GRADE 50) STRAPS.
10	~~2½" SQ. HSS SOFFIT COLUMN - SEE 5/S5.0.~~
11	~~SOFFIT OUTRIGGER BEAM - SEE S0.0~~
12	~~SOFFIT BEAM - SEE S0.0~~
13	~~ROOF PURLINS @ 48" O.C. MAX IN OVERHANGS - SEE S0.0. MAY BE ACHIEVED WITH FULL DEPTH PURLINS SUPPORTING ROOF SHEATHING & SOFFIT SHEATHING OR BY SEPARATE SMALLER JOISTS @ EACH LEVEL MAINTAINING MAX SPACING AT EACH LEVEL.~~
14	~~OPTIONAL 22" SQ. SOLATUBE SKYLIGHT OPENINGS, (4) SKYLIGHT OPENING PER MODULE MAX. LOCATE OPENINGS PER 15/S4.3.~~

KEY NOTES

1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0. THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
2. SEE SHEET S8.0 & S9.0 FOR TYP. SIDE WALL FRAMING.
3. SEE SHEET S8.0 & S9.0 FOR TYP. END WALL FRAMING.
4. ALL FASTENERS THRU METAL ROOF PANEL SHALL BE INSTALLED w/ NEOPRENE WASHERS.
5. FOR PLASTER STUCCO FINISH @ SOFFIT, LATH SHALL BE SECURED PER THE FOLLOWING (CBC 2507.3):

   SECURE LATH TO ALTERNATE SUPPORTS WITH TIES CONSISTING OF A DOUBLE STRAND OF NO. 18 W & M GAGE GALVANIZED ANNEALED WIRE AT ONE EDGE OF EACH SHEET OF LATH. WIRE TIES SHALL BE INSTALLED NOT LESS THAN 3 INCHES (76MM) BACK FROM THE EDGE OF EACH SHEET AND SHALL BE LOOPED AROUND STRIPPING, OR ATTACHED TO A #8 SMS SCREW INTO EACH SIDE OF THE PURLIN - 2 INCHES (51MM) ABOVE THE BOTTOM OF THE PURLIN OR TO EACH END OF A #12 SMS DRIVEN HORIZONTALLY THROUGH THE PURLIN - 2 INCHES (51MM) ABOVE THE BOTTOM OF THE PURLIN AND THE ENDS OF THE WIRE SECURED TOGETHER WITH THREE TWISTS OF WIRE.

GENERAL NOTES


NOT USED
METAL ROOF PAN
PER PLAN w/ NEOPRENE WASHER
22 GA. FRONT CAP
SOFFIT BEAM WELD CORNERS w/ HSS 2½"x2½" (CAP BOTTOM ONLY)
1"
2½"
1¼"
#10 SDSTS @ 12" O.C. TYP. @ EA. PANEL EDGE

NOT USED

NOT USED 4

NOT USED 5

ENCLOSED SOFFIT DETAIL

SCALE: 1 1/2"=1'-0" 6

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FORM

SITE SPECIFIC PROJECT NAME
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RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

MANNY D. FRISCH
No. S3380
RST#22214

02-08-24

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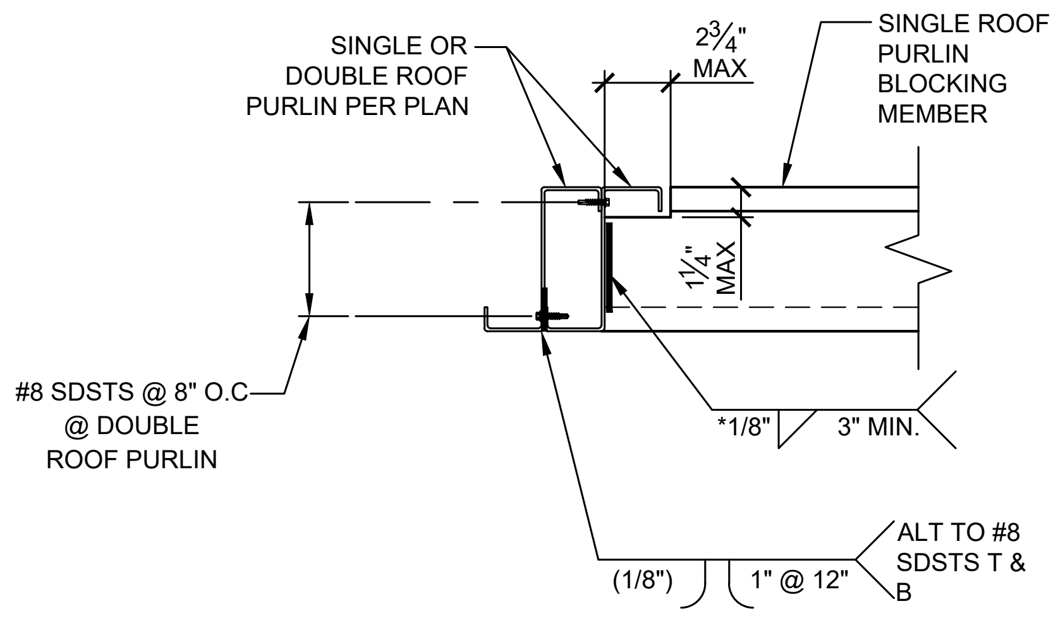
DATE:	MM/DD/YY
PROJECT NO:	XXXX-XX

SHEET TITLE:
ROOF FRAMING PLAN
AND DETAILS
CROSS BRACING OPTION

SHEET NUMBER:
S4.0

NOT USED 1

NOT USED 2

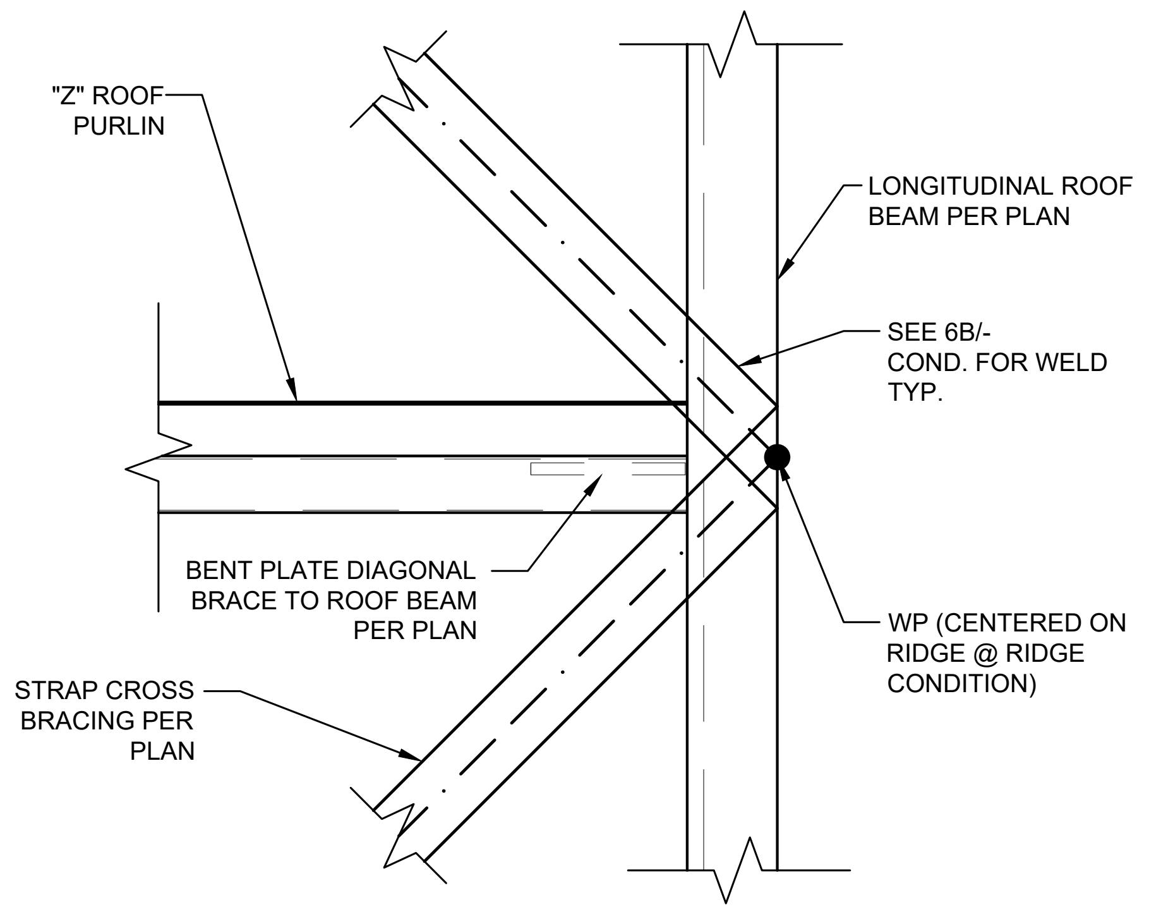

SINGLE OR DOUBLE ROOF PURLIN PER PLAN
2¾" MAX
SINGLE ROOF PURLIN BLOCKING MEMBER
1¼" MAX
#8 SDSTS @ 8" O.C @ DOUBLE ROOF PURLIN
*1/8" 3" MIN.
(1/8") 1" @ 12"
ALT TO #8 SDSTS T & B

*NOTE: SEE NOTE #3 OF GENERAL NOTES

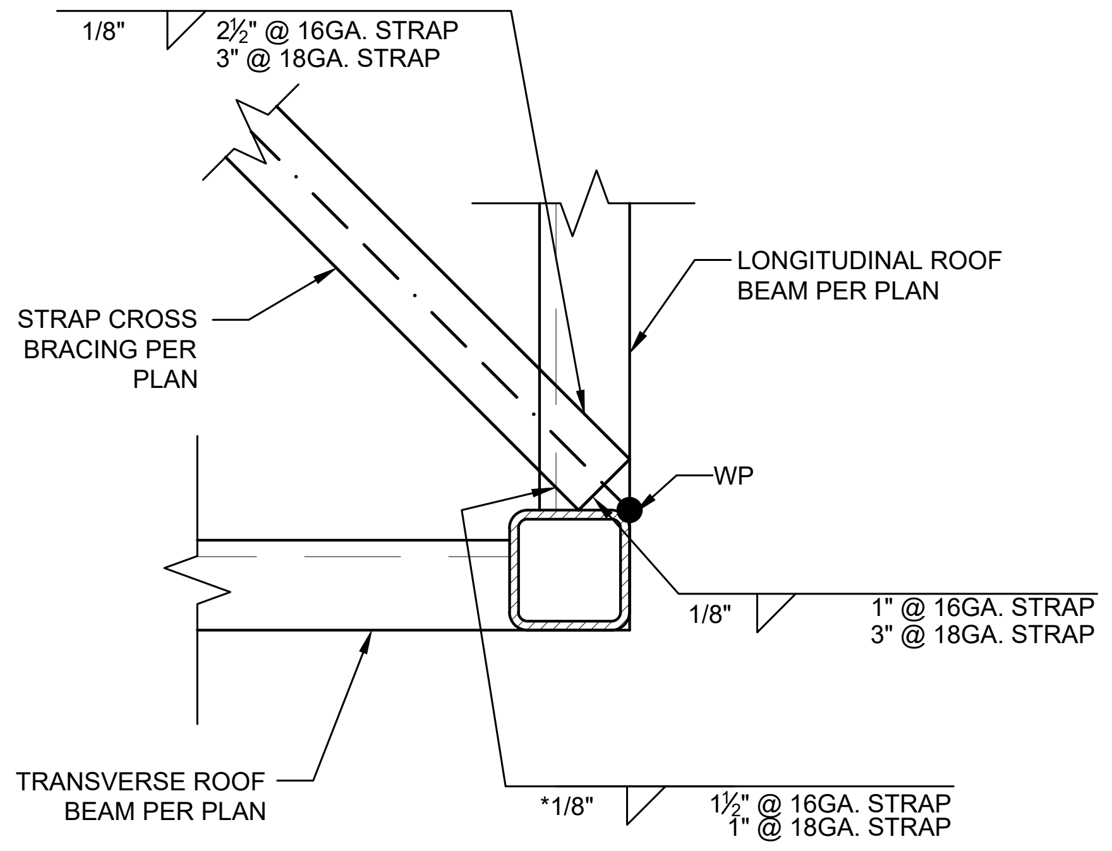
BLOCKING & DBL PURLIN CONNECTION DETAIL 3
SCALE: 1 1/2"=1'-0"

NOT USED 4

NOT USED 5

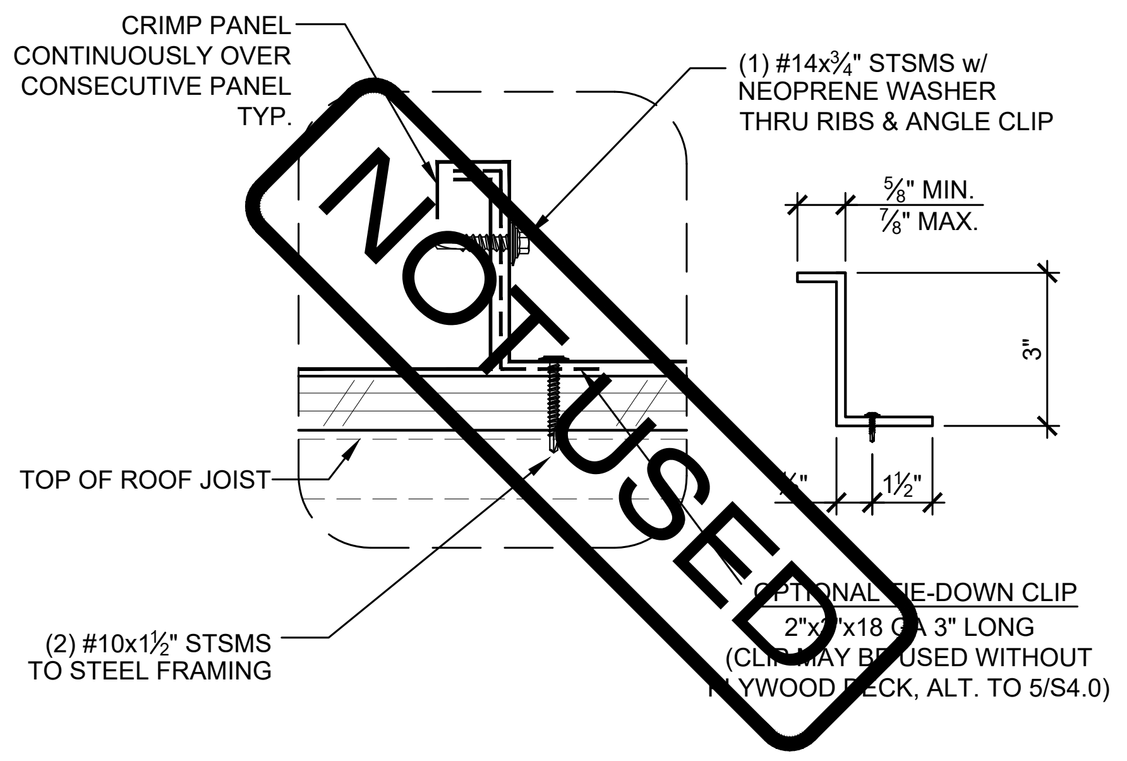

"Z" ROOF PURLIN
LONGITUDINAL ROOF BEAM PER PLAN
SEE 6B/- COND. FOR WELD TYP.
BENT PLATE DIAGONAL BRACE TO ROOF BEAM PER PLAN
WP (CENTERED ON RIDGE @ RIDGE CONDITION)
STRAP CROSS BRACING PER PLAN

TYP. CROSS BRACING DETAILS 6
SCALE: 1 1/2"=1'-0"


1/8" 2½" @ 16GA. STRAP 3" @ 18GA. STRAP
STRAP CROSS BRACING PER PLAN
LONGITUDINAL ROOF BEAM PER PLAN
WP
1/8" 1" @ 16GA. STRAP 3" @ 18GA. STRAP
TRANSVERSE ROOF BEAM PER PLAN
*1/8" 1½" @ 16GA. STRAP 1" @ 18GA. STRAP

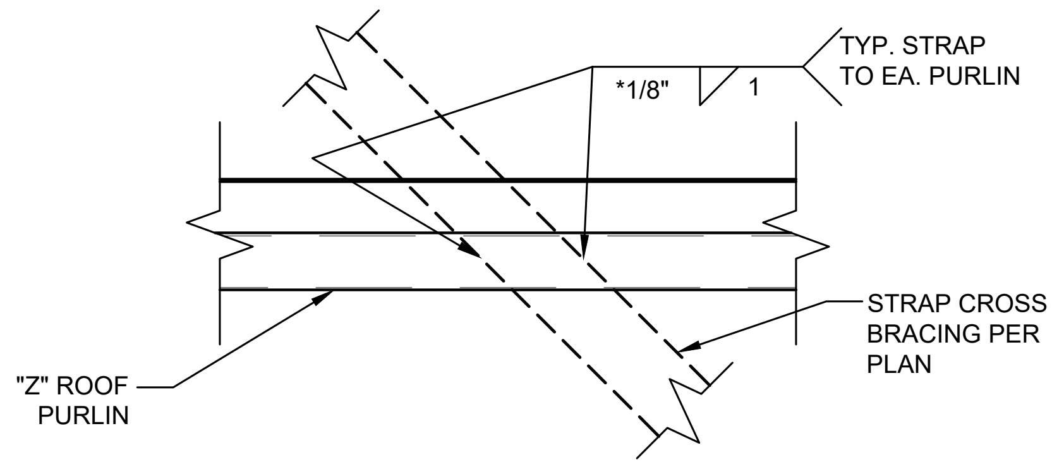
*NOTE: SEE NOTE #3 OF GENERAL NOTES

TYP. CROSS BRACING DETAILS 6B
SCALE: 1 1/2"=1'-0"


CRIMP PANEL CONTINUOUSLY OVER CONSECUTIVE PANEL TYP.
(1) #14x¾" STSMS w/ NEOPRENE WASHER THRU RIBS & ANGLE CLIP
⅝" MIN.
⅞" MAX.
3"
1½"
TOP OF ROOF JOIST
(2) #10x1½" STSMS TO STEEL FRAMING
OPTIONAL TIE-DOWN CLIP
2"x2"x18 GA 3" LONG
(CLIP MAY BE USED WITHOUT PLYWOOD DECK, ALT. TO 5/S4.0)
NOT USED

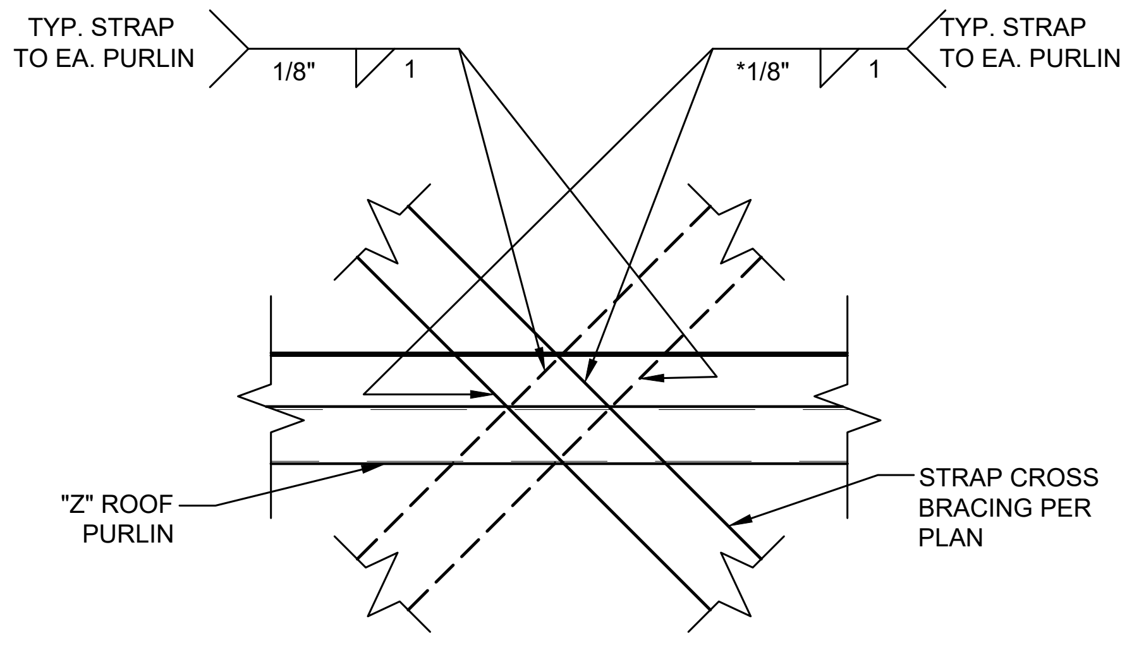
NOTE:
MECHANICALLY CRIMP EACH STANDING SEAM ENTIRELY.
MECHANICALLY CRIMP PANELS OVER ALL CLIPS.

ROOF DETAIL 7
(OPTIONAL ROOF PAN CLIP)
SCALE: 1 1/2"=1'-0"



*NOTE: SEE NOTE #3 OF GENERAL NOTES

TYP. CROSS BRACING DETAILS 8
SCALE: 1 1/2"=1'-0"

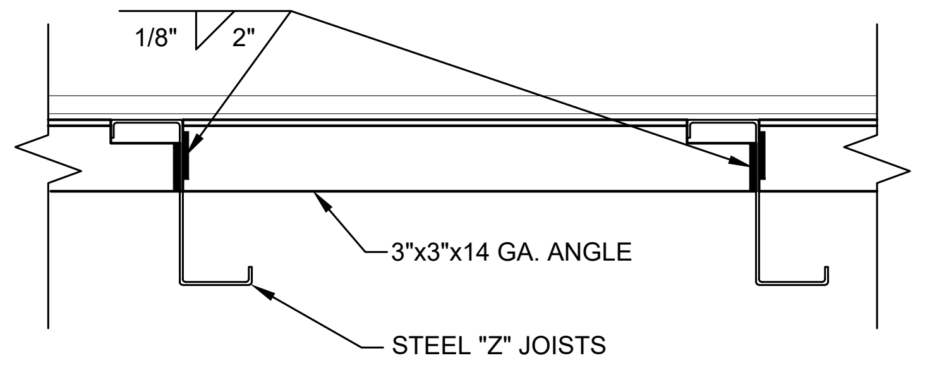


*NOTE: SEE NOTE #3 OF GENERAL NOTES

TYP. CROSS BRACING DETAILS 9
SCALE: 1 1/2"=1'-0"

NOT USED 10

NOT USED 11



TYP. ANGLE TO Z-PURLIN ATTACHMENT 12
SCALE: 1 1/2"=1'-0"

NOT USED 13

NOT USED 14

NOT USED 15

1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0 THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
2. STRAP PRETENSIONING PER AISI S400 SECTION E3.4(c)
3. MAX FILLET WELD SIZE SHALL BE EQUAL TO THE THICKNESS OF THE THINNER SHEET STEEL (AWS D1.3, SECTION 2.3.3)
4. REFER TO MINIMUM INSULATION SCHEDULES ON SHEET M1.7 FOR ALL INSULATION REQUIREMENTS.

GENERAL NOTES

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SCALE:	AS NOTED
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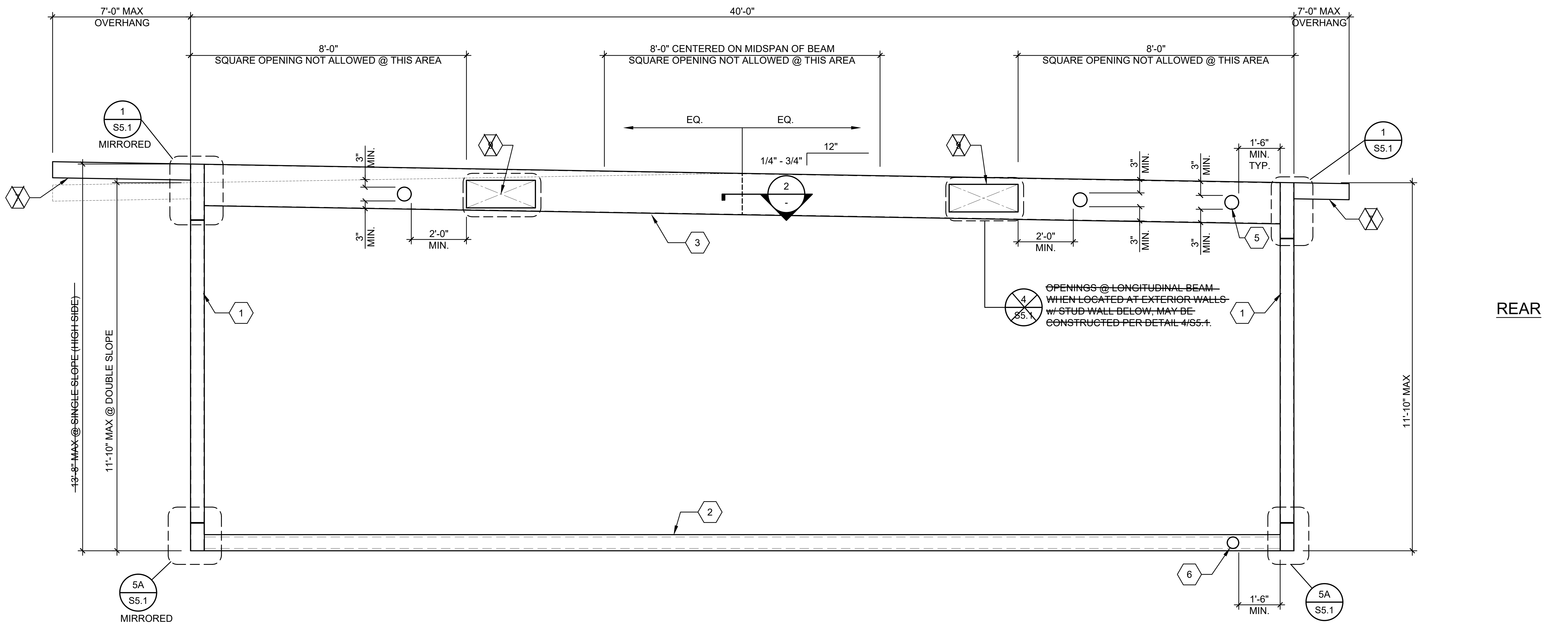
PROJECT NO:	XXXX-XX

SHEET TITLE:
ROOF FRAMING DETAILS
CROSS BRACING OPTION

SHEET NUMBER:
S4.2


7'-0" MAX
OVERHANG
40'-0"
7'-0" MAX
OVERHANG
8'-0"
SQUARE OPENING NOT ALLOWED @ THIS AREA
8'-0" CENTERED ON MIDSPAN OF BEAM
SQUARE OPENING NOT ALLOWED @ THIS AREA
8'-0"
SQUARE OPENING NOT ALLOWED @ THIS AREA
EQ.
EQ.
12"
1/4" - 3/4"
2
-
1
S5.1
MIRRORED
7
9
3" MIN.
3" MIN.
2'-0" MIN.
3
1'-6" MIN. TYP.
1
S5.1
5
FRONT
REAR
1
1
~~OPENINGS @ LONGITUDINAL BEAM WHEN LOCATED AT EXTERIOR WALLS w/ STUD WALL BELOW, MAY BE CONSTRUCTED PER DETAIL 4/S5.1.~~
4
S5.1
~~13'-8" MAX @ SINGLE SLOPE (HIGH SIDE)~~
11'-10" MAX @ DOUBLE SLOPE
11'-10" MAX
2
6
5A
S5.1
MIRRORED
1'-6" MIN.
5A
S5.1

TYPICAL LONGITUDINAL FRAME ELEVATION

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

1

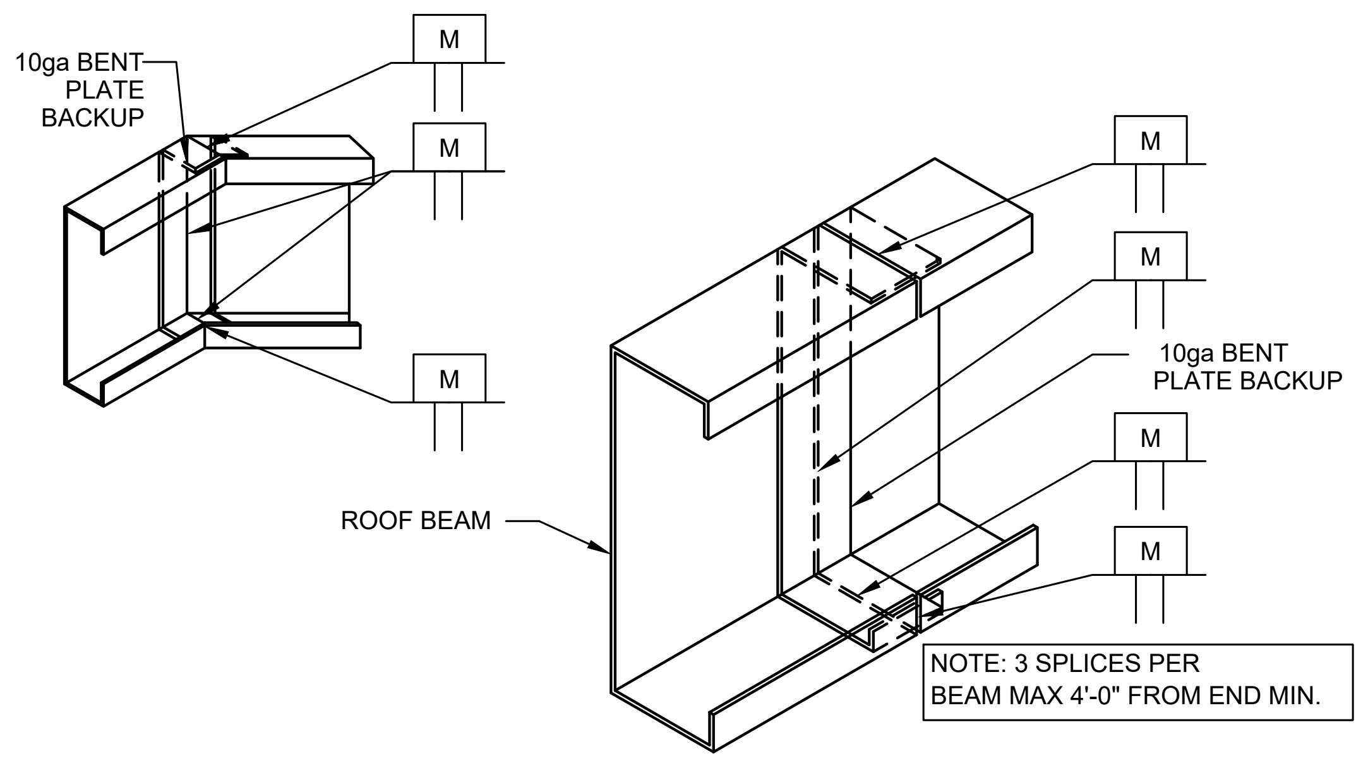
KEY NOTES

1. HSS COLUMN - SEE SCHEDULE 3 & BELOW
2. FLOOR BEAM - SEE SCHEDULE 3 & BELOW
3. LONGITUDINAL ROOF BEAM PER 18/S0.0.
4. TRANSVERSE ROOF BEAM PER 18/S0.0.
5. 6"Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C., HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION. - SEE 6/S5.1

   NOTE: IF HOLE IS 3" OR LESS, THEY MAY BE SPACED @ 24" O.C. MINIMUM
6. 4"Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF FLOOR BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION - SEE 6/S5.1.

   NOTE: IF HOLE IS 2" OR LESS, THEY MAY BE SPACED @ 24" O.C. MINIMUM.
7. ~~SOFFIT OUTRIGGER BEAM AT ENCLOSED OVERHANG - REFER TO DETAIL 1/S5.1 & S0.0 FOR PROPERTIES.~~
8. ~~SOFFIT BEAM AT ENCLOSED OVERHANG - REFER TO DETAIL 1/S5.1 & S0.0 FOR PROPERTIES~~
9. ~~LONGITUDINAL BEAM OPENING:~~
   ~~REFER TO DETAIL 4/S5.1 FOR OPENING REINFORCEMENT (10"x30" MAX OPENING SIZE)~~
10. ~~TRANSVERSE BEAM OPENING:~~
    ~~REFER TO DETAIL 4/S5.1 FOR OPENING REINFORCEMENT (10"x30" MAX OPENING SIZE)~~

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



NOTE: 3 SPLICES PER BEAM MAX 4'-0" FROM END MIN.

TYPICAL BEAM SLICE

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

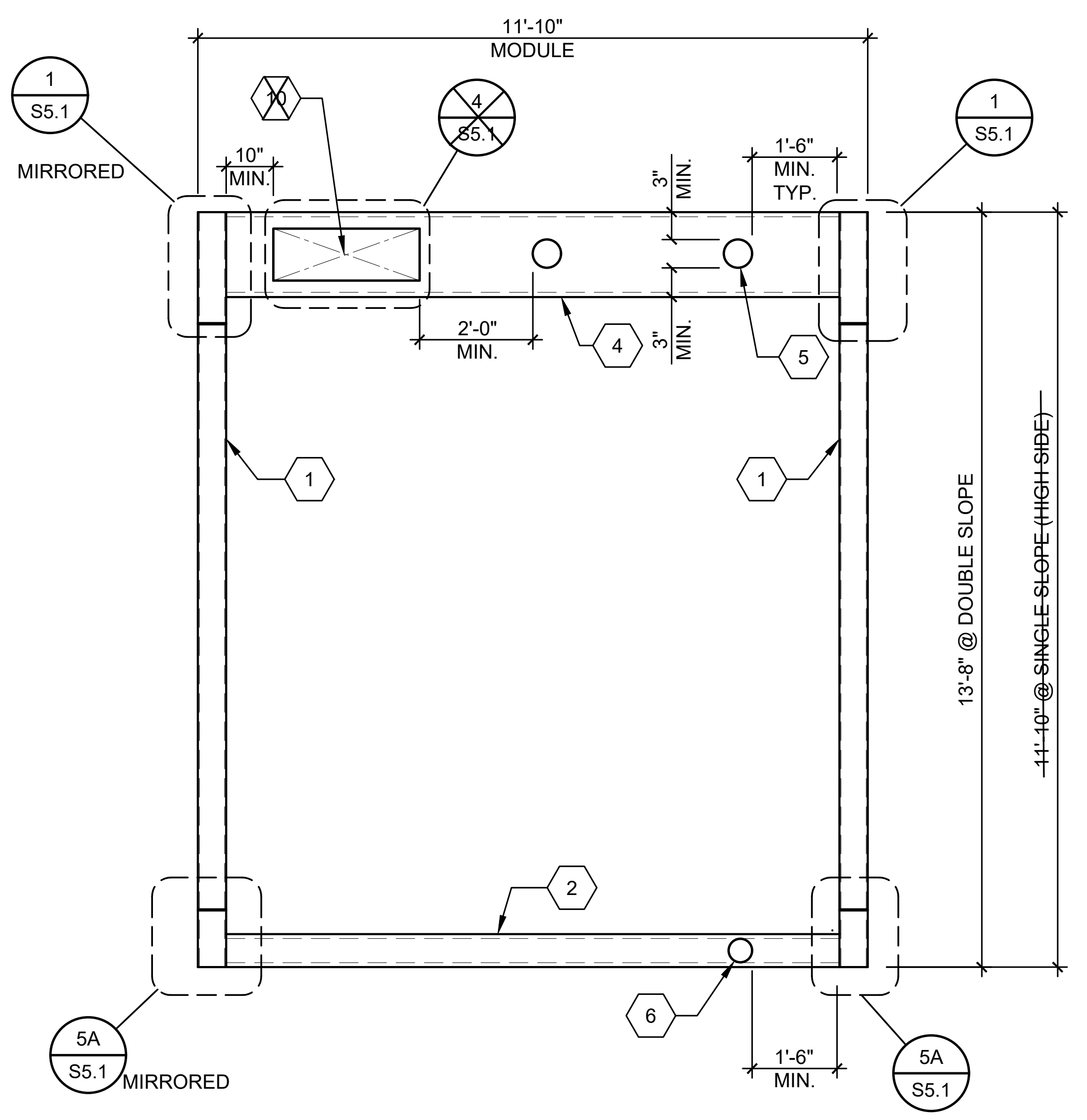
2

FLOOR BEAMS		ALT. FLOOR BEAMS		COLUMNS	LONGITUDINAL ROOF BEAMS	TRANSVERSE ROOF BEAMS
PLYWOOD FLOOR	~~CONCRETE FLOOR~~	~~PLYWOOD FLOOR~~	~~CONCRETE FLOOR~~			
C9x20 (50 KSI)	~~C9x20 (50 KSI)~~	~~C10x15.3~~	~~C10x15.3~~	HSS 6x6x⅜ (ASTM A1085)	10 GA.	10 GA.

NOTE: SEE ALL SECTION PROPERTIES ON SHEET S0.0

FRAME MEMBER SCHEDULE

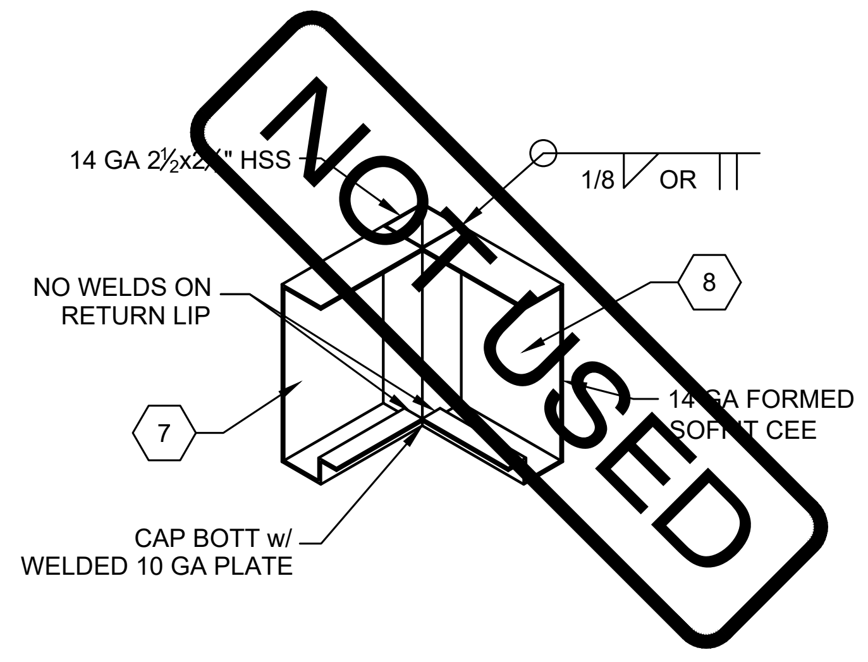
3



TYPICAL TRANSVERSE FRAME ELEVATION

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

4



OVERHANG CORNER DETAIL

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

5

NOT USED

6

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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

FORM

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

MANNY D. FRISCH
No. S3380
RST#22214

02-08-24

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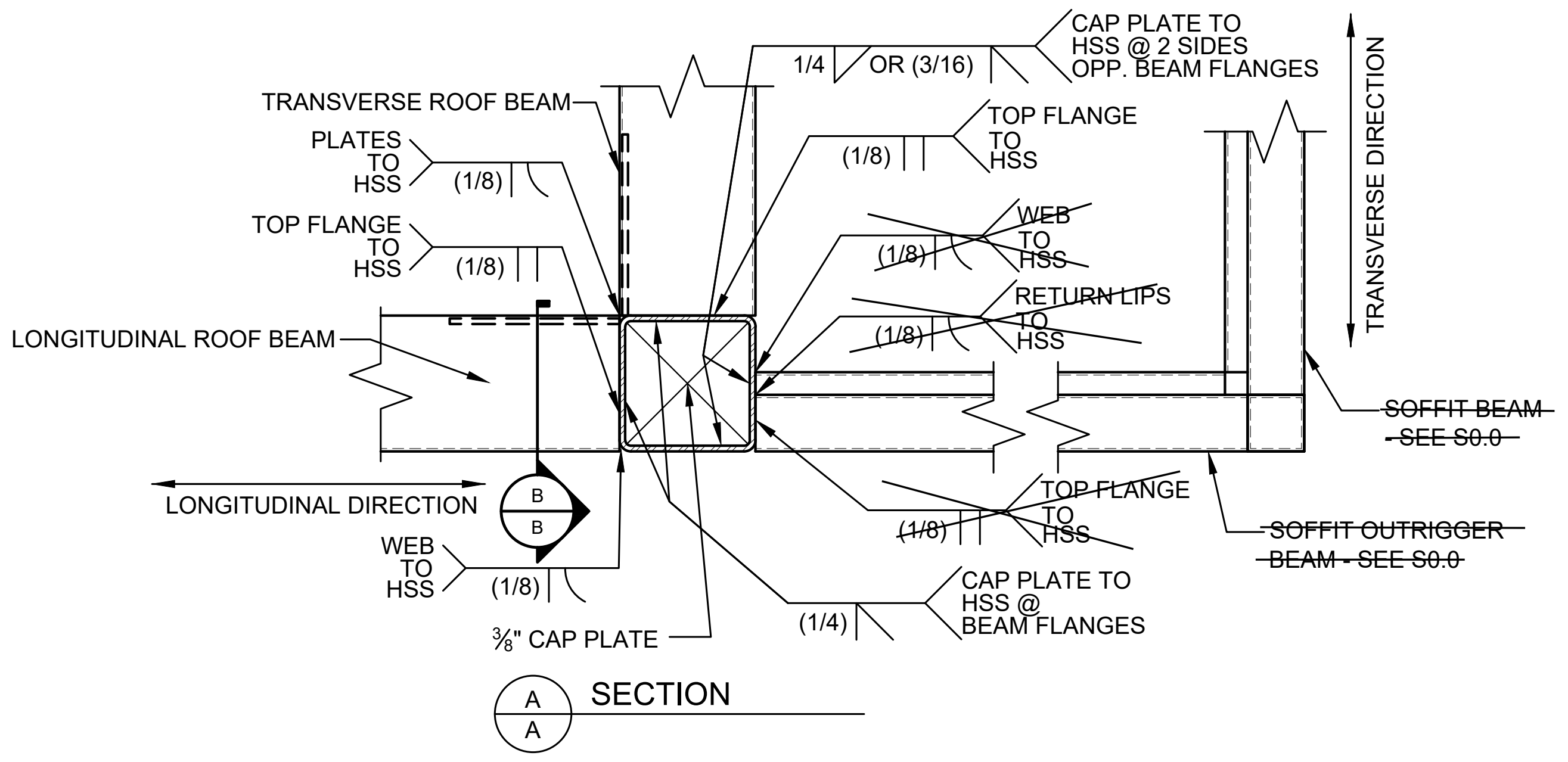
REVISIONS
1
2
3
4

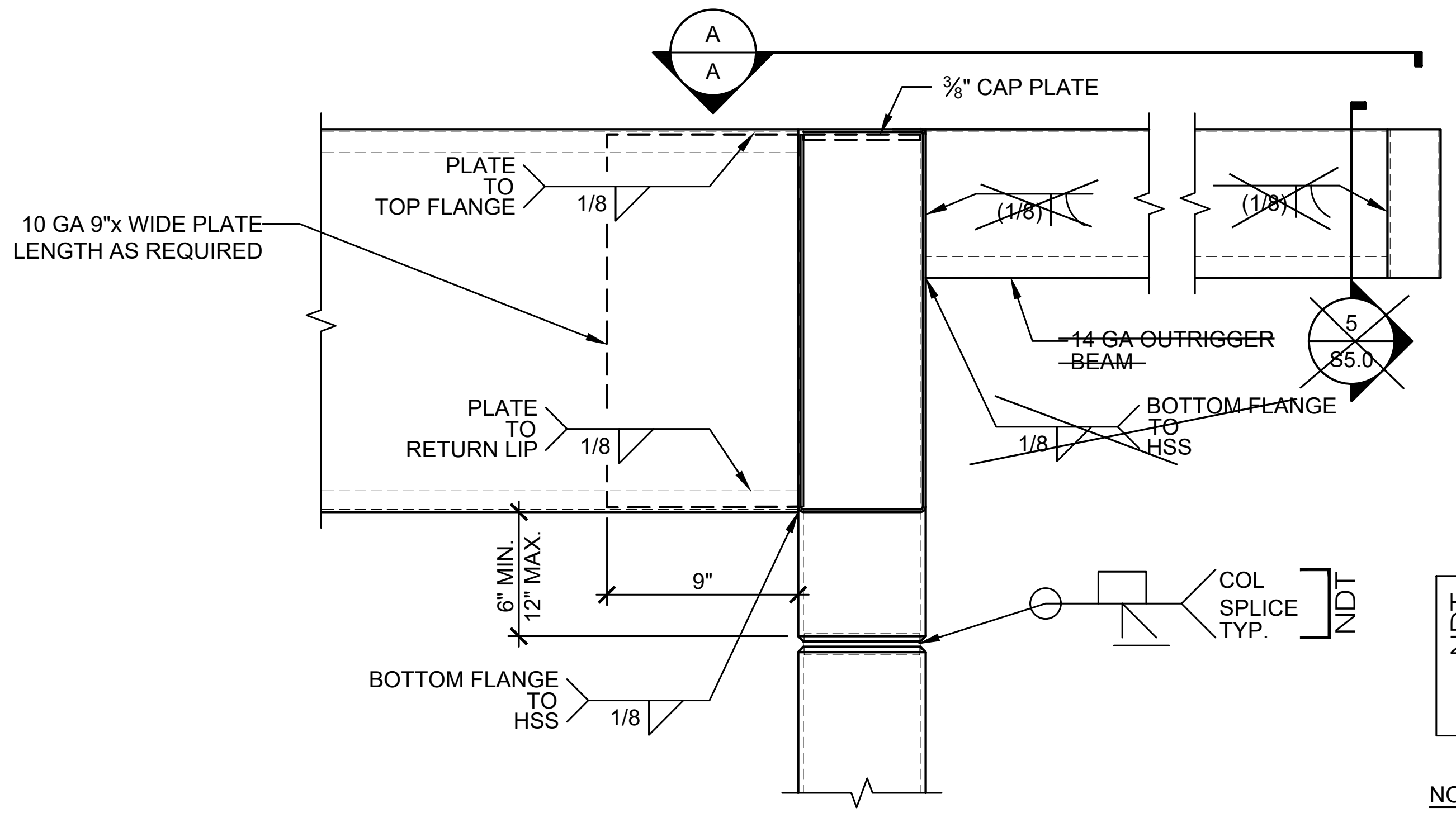
DRAWN BY:
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-XX

SHEET TITLE:
MOMENT FRAME
ELEVATIONS & DETAILS

SHEET NUMBER:
S5.0



A/A SECTION



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

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

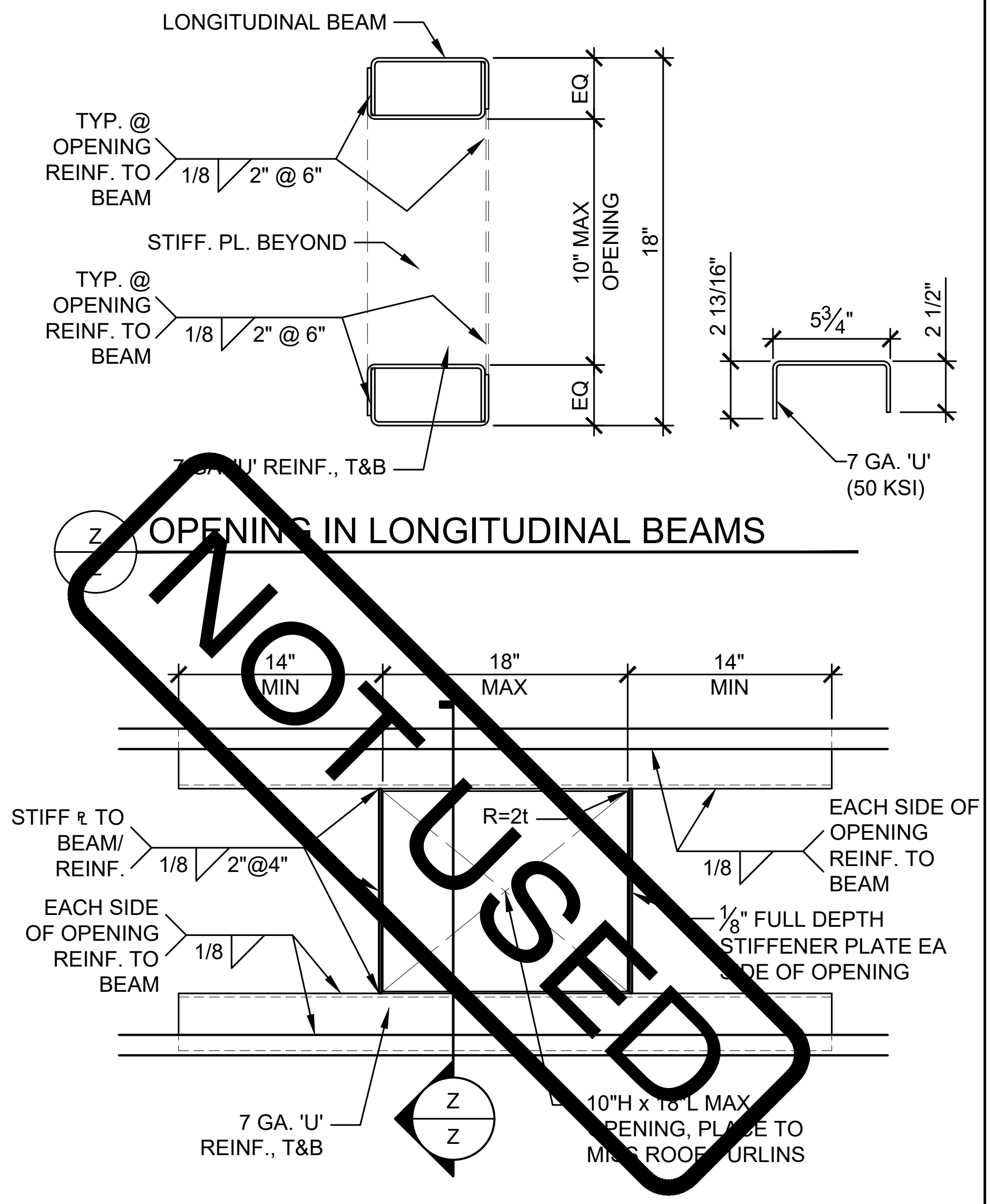
TYPICAL ROOF CHANNEL TO HSS DETAIL

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

1

NOT USED

2


LONGITUDINAL BEAM
TYP. @ OPENING REINF. TO BEAM 1/8 2" @ 6"
STIFF. PL. BEYOND
TYP. @ OPENING REINF. TO BEAM 1/8 2" @ 6"
EQ
10" MAX OPENING
18"
EQ
2 13/16"
5¾"
2 1/2"
7 GA. 'U' REINF., T&B
7 GA. 'U' (50 KSI)
Z Z OPENING IN LONGITUDINAL BEAMS
14" MIN
18" MAX
14" MIN
STIFF ℄ TO BEAM/ REINF. 1/8 2"@4"
R=2t
EACH SIDE OF OPENING REINF. TO BEAM 1/8
EACH SIDE OF OPENING REINF. TO BEAM 1/8
⅛" FULL DEPTH STIFFENER PLATE EA SIDE OF OPENING
7 GA. 'U' REINF., T&B
Z Z
10"H x 18"L MAX OPENING, PLACE TO MISS ROOF PURLINS
NOT USED

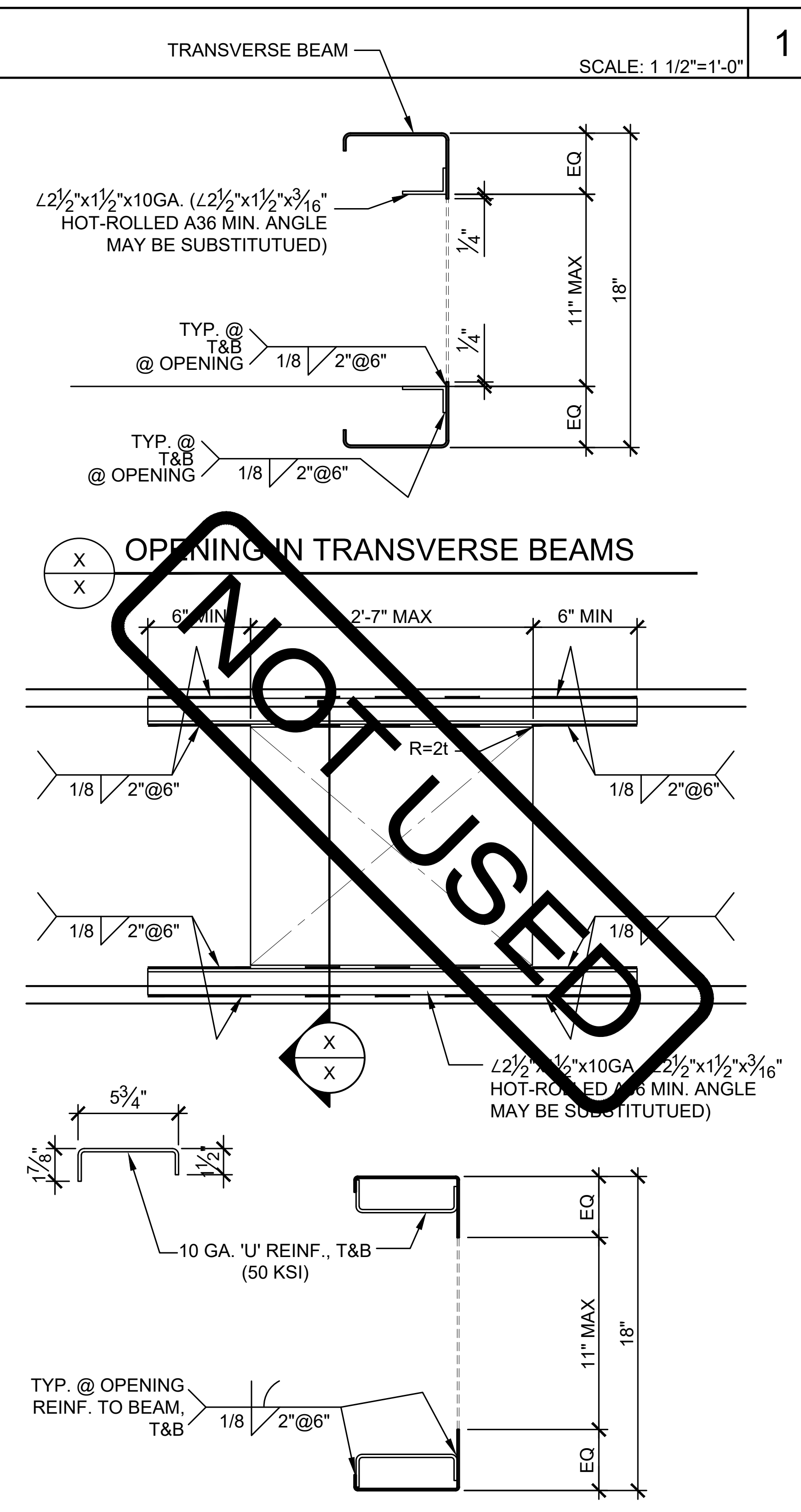
NOTES:

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

OPENING @ ROOF BEAMS
(LONGITUDINAL BEAMS)

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

3

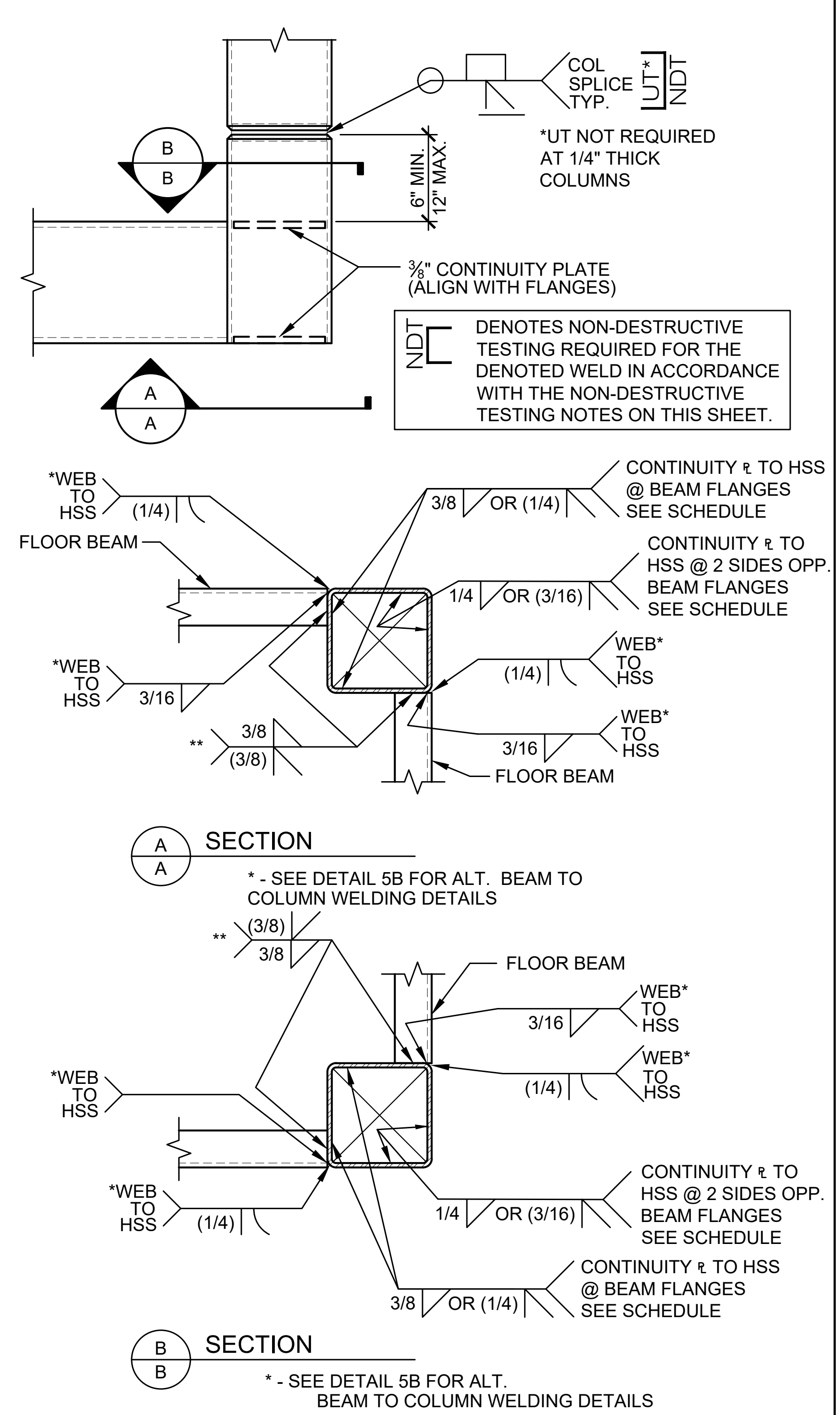

TRANSVERSE BEAM
∠2½"x1½"x10GA. (∠2½"x1½"x3⁄16" HOT-ROLLED A36 MIN. ANGLE MAY BE SUBSTITUTUED)
EQ
¼"
11" MAX
18"
¼"
EQ
TYP. @ T&B @ OPENING 1/8 2"@6"
TYP. @ T&B @ OPENING 1/8 2"@6"
X X OPENING IN TRANSVERSE BEAMS
6" MIN
2'-7" MAX
6" MIN
R=2t
1/8 2"@6"
1/8 2"@6"
1/8 2"@6"
1/8
X X
∠2½"x1½"x10GA. (∠2½"x1½"x3⁄16" HOT-ROLLED A36 MIN. ANGLE MAY BE SUBSTITUTUED)
5¾"
1⅞"
1½"
10 GA. 'U' REINF., T&B (50 KSI)
EQ
11" MAX
18"
EQ
TYP. @ OPENING REINF. TO BEAM, T&B 1/8 2"@6"
NOT USED

OPTIONAL OPENING REINFORCEMENT

OPENING @ ROOF BEAMS
(TRANSVERSE BEAMS)

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

4

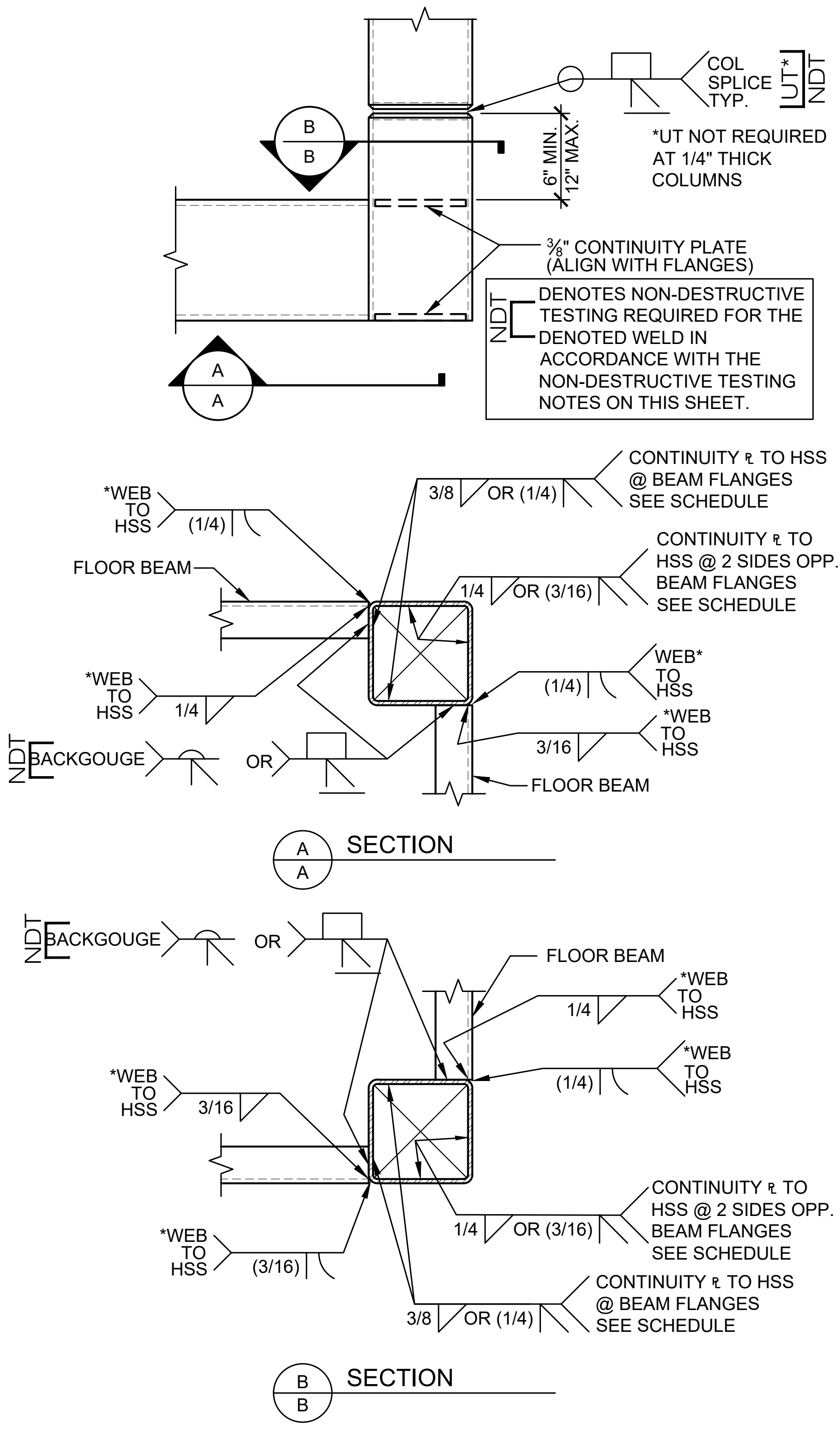

COL SPLICE TYP. UT* NDT
*UT NOT REQUIRED AT 1/4" THICK COLUMNS
B B
6" MIN. 12" MAX.
⅜" CONTINUITY PLATE (ALIGN WITH FLANGES)
A A
NDT DENOTES NON-DESTRUCTIVE TESTING REQUIRED FOR THE DENOTED WELD IN ACCORDANCE WITH THE NON-DESTRUCTIVE TESTING NOTES ON THIS SHEET.
*WEB TO HSS (1/4)
FLOOR BEAM
CONTINUITY ℄ TO HSS @ BEAM FLANGES SEE SCHEDULE 3/8 OR (1/4)
CONTINUITY ℄ TO HSS @ 2 SIDES OPP. BEAM FLANGES SEE SCHEDULE 1/4 OR (3/16)
*WEB TO HSS 3/16
WEB* TO HSS (1/4)
** 3/8 (3/8)
WEB* TO HSS 3/16
FLOOR BEAM
A A SECTION
* - SEE DETAIL 5B FOR ALT. BEAM TO COLUMN WELDING DETAILS
** (3/8) 3/8
FLOOR BEAM
WEB* TO HSS 3/16
WEB* TO HSS (1/4)
*WEB TO HSS
*WEB TO HSS (1/4)
CONTINUITY ℄ TO HSS @ 2 SIDES OPP. BEAM FLANGES SEE SCHEDULE 1/4 OR (3/16)
CONTINUITY ℄ TO HSS @ BEAM FLANGES SEE SCHEDULE 3/8 OR (1/4)
B B SECTION
* - SEE DETAIL 5B FOR ALT. BEAM TO COLUMN WELDING DETAILS

** FULL PEN WELD ALTERNATE - DETAIL 5B,MAY BE USED AS AN ALTERNATIVE TO THE DOUBLE SIDED FLANGE-TO-COLUMN WELDS SHOWN. NDT

TYP. CORNER TO FLOOR BM DETAIL

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

5A


COL SPLICE TYP. UT* NDT
*UT NOT REQUIRED AT 1/4" THICK COLUMNS
B B
6" MIN. 12" MAX.
⅜" CONTINUITY PLATE (ALIGN WITH FLANGES)
A A
NDT DENOTES NON-DESTRUCTIVE TESTING REQUIRED FOR THE DENOTED WELD IN ACCORDANCE WITH THE NON-DESTRUCTIVE TESTING NOTES ON THIS SHEET.
CONTINUITY ℄ TO HSS @ BEAM FLANGES SEE SCHEDULE 3/8 OR (1/4)
*WEB TO HSS (1/4)
FLOOR BEAM
CONTINUITY ℄ TO HSS @ 2 SIDES OPP. BEAM FLANGES SEE SCHEDULE 1/4 OR (3/16)
*WEB TO HSS 1/4
WEB* TO HSS (1/4)
NDT BACKGOUGE OR
*WEB TO HSS 3/16
FLOOR BEAM
A A SECTION
NDT BACKGOUGE OR
FLOOR BEAM
*WEB TO HSS 1/4
*WEB TO HSS (1/4)
*WEB TO HSS 3/16
CONTINUITY ℄ TO HSS @ 2 SIDES OPP. BEAM FLANGES SEE SCHEDULE 1/4 OR (3/16)
*WEB TO HSS (3/16)
CONTINUITY ℄ TO HSS @ BEAM FLANGES SEE SCHEDULE 3/8 OR (1/4)
B B SECTION

* FULL PEN WELD MAY BE USED AS AN ALTERNATIVE TO THE DOUBLE SIDED BEAM WEB-TO-COLUMN WELD SHOWN. NDT UT

NOT USED

5B

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

GENERAL NOTES

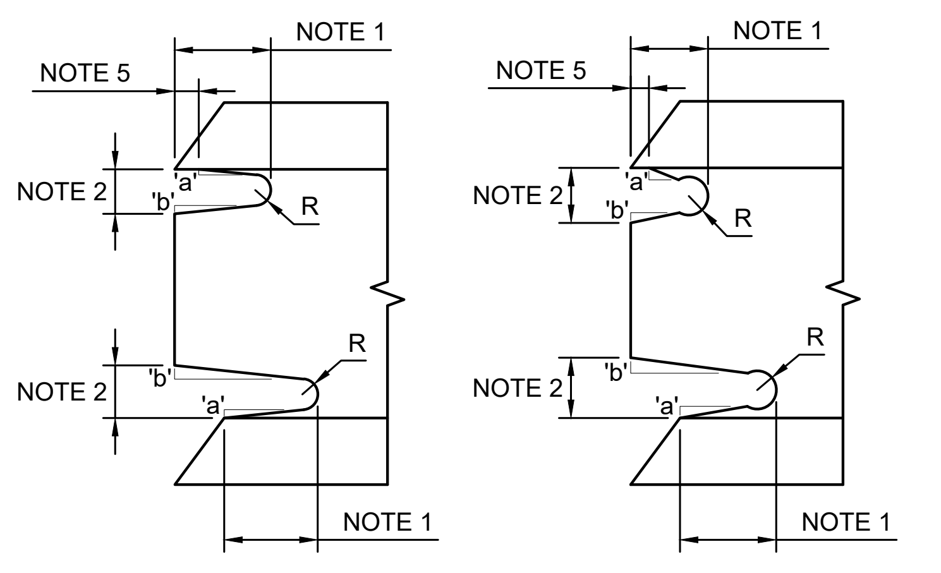
NON-DESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION GROVE WELDS AT THE MOMENT-RESISTING BEAM-TO-COLUMN CONNECTIONS SHALL COMPLY WITH AISC 341-16 CHAPTER J PER CBC 1705A.2.1.

1. WELDS SUBJECT TO THE REQUIREMENTS OF NON-DESTRUCTIVE TESTING ARE NOTED ON THESE DRAWINGS WITH THE SYMBOL: NDT
2. ALL WELDS DESIGNATED FOR NON-DESTRUCTIVE TESTING REQUIRE MAGNETIC PARTICLE TESTING (MT) TO BE PERFORMED ON 25% OF THOSE WELDS.
3. ULTRASONIC TESTING (UT) IS TO BE PERFORMED ON 100% OF WELDS DENOTED WITH THE SYMBOL NDT UT, AND IS ONLY REQUIRED ON THOSE DESIGNATED WELDS.
4. ULTRASONIC TESTING (UT) IS ONLY REQUIRED WHERE THE THICKNESS OF THE COLUMN IS 5/16" OR GREATER. UT IS NOT REQUIRED WHERE THE COLUMN THICKNESS IS LESS THAN 5/16". MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.
5. ULTRASONIC TESTING (UT) IS NOT REQUIRED ON WELDS FROM STRUCTURAL STEEL CHANNEL BEAM FLANGES TO COLUMNS AS UT TESTING IS NOT APPROPRIATE FOR SECTIONS WITH VARYING DEPTHS. MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.

NON-DESTRUCTIVE TESTING NOTES

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

WELD ACCESS HOLE GEOMETRY



ALTERNATE 1 ALTERNATE 2

NOTES: THESE ARE TYPICAL DETAILS FOR JOINTS WELDED FROM ONE SIDE AGAINST STEEL BACKING WHERE WELD ACCESS HOLES ARE REQUIRED.

1) LENGTH: GREATER OF 1.5tw (WEB THICKNESS) OR 1-1/2 IN. (38 MM)

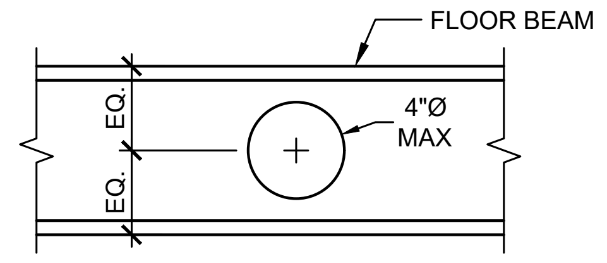
2) HEIGHT: GREATER OF 1.0tw OR 3/4 IN. (19 MM) BUT NEED NOT EXCEED 2 IN. (50 MM)

3) R: 3/8 IN. MIN. (10 MM). GRIND THE THERMALLY CUT SURFACES OF WELD ACCESS HOLES IN HEAVY SHAPES AS DEFINED IN SECTIONS A3.1(c) AND (d) OF AISC 360-16.

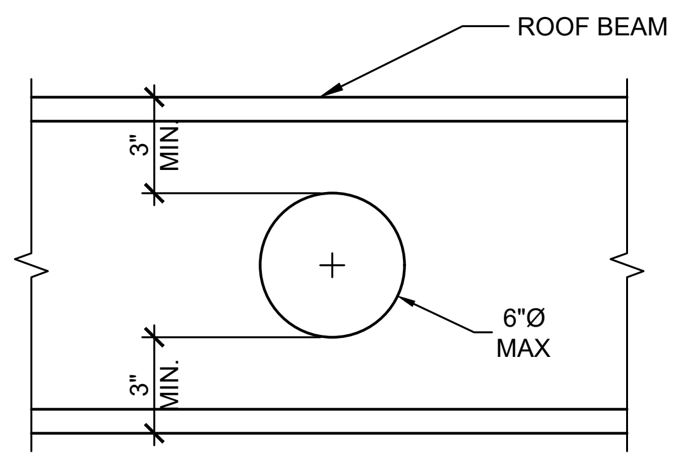
4) SLOPE 'a' FORMS A TRANSITION FROM THE WEB TO THE FLANGE. SLOPE 'b' MAY BE HORIZONTAL.

5) THE BOTTOM OF THE TOP FLANGE IS TO BE CONTOURED TO PERMIT THE TIGHT FIT OF BACKING BARS WHERE THEY ARE TO BE USED.

REQ. FOR FR. MOMENT CONNECTIONS



4" OPENING IN FLOOR BEAM



6" OPENING IN ROOF BEAM

OPENING IN BEAMS

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

6

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DATE: 04/08/26

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

FORM

SITE SPECIFIC PROJECT NAME
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~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

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A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDAL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

MANNY D. FRISCH
No. S3380
RST#22214
02-08-24

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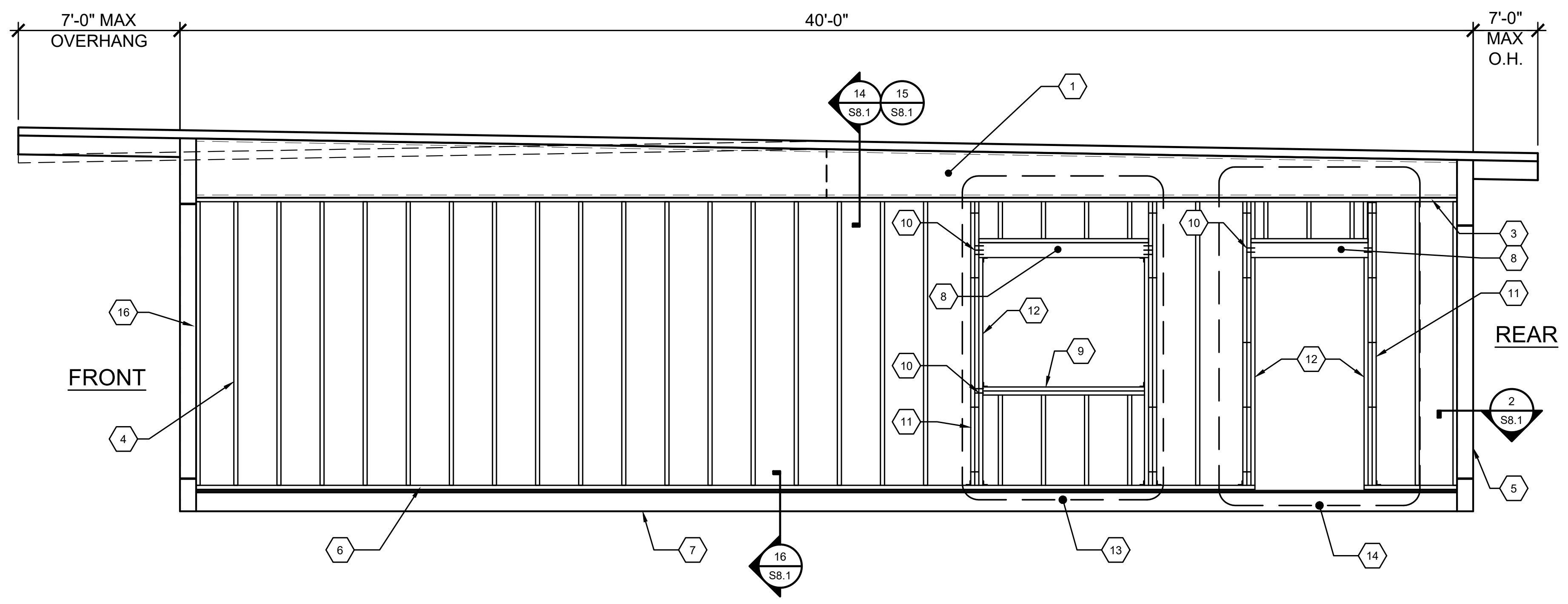
REVISIONS
1
2
3
4

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

SHEET TITLE:
MOMENT FRAME
CONNECTION DETAILS

SHEET NUMBER:
S5.1



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

TYPICAL SIDE WALL FRAMING (MONO/DUAL PITCH)

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

- ⟨1⟩ ROOF BEAM PER SHEET S5.0
- ⟨2⟩ 2x6 MIN. TOP PLATE - NO SPLICE
- ⟨3⟩ 2x6 MIN. TOP PLATE
- ⟨4⟩ 2x6 MIN. STUDS SPACED PER SCHEDULE W/(3) 0.131"Ø x3" END NAILS OR (4) 0.131"Ø x3" TOE NAILS T&B TO PLATES TYP.
- ⟨5⟩ HSS COLUMN PER SHEET S5.0
- ⟨6⟩ 2x6 MIN. BOTTOM PLATE - NO SPLICE (P.T. AT CONCRETE FLOORS)
- ⟨6A⟩ 2x6 MIN. BOTTOM PLATE (P.T. AT CONCRETE FLOORS)
- ⟨7⟩ PERIMETER FLOOR BEAM PER SHEET S5.0
- ⟨8⟩ HEADER PER OPENING SCHEDULE
- ⟨9⟩ WINDOW SILL PER OPENING SCHEDULE
- ⟨10⟩ END NAILS THROUGH KING STUD TO HEADER SILL PER OPENING SCHEDULE
- ⟨11⟩ KING STUDS PER OPENING SCHEDULE
- ⟨12⟩ 2x6 MIN. TRIMMER
- ⟨13⟩ OPTIONAL WINDOW OPENING FRAMING PER SCHEDULE (REFER TO 4/S8.0 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
- ⟨14⟩ OPTIONAL DOOR OPENING FRAMING PER SCHEDULE (REFER TO 5/S8.0 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
- ⟨15⟩ HVAC OPENING @ EXTERIOR WALL (600#MAX WT.) SEE DETAIL 3/S8.1 FOR HVAC ATTACHMENT - SEE DETAIL 3/S8.1 FOR HVAC ATTACHMENT
- ⟨16⟩ 2x DOUBLE NAILER

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

KEY NOTES

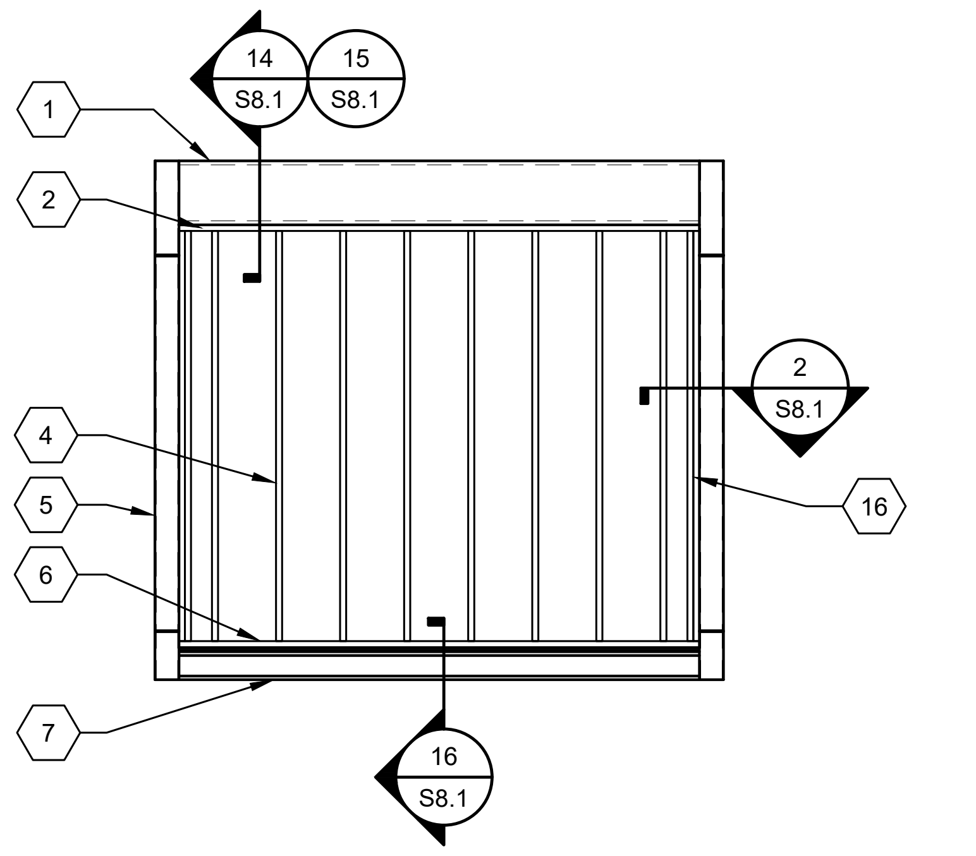
EXTERIOR WALL SCHEDULE

FINISH TYPE	WALL FINISH COMMENTS	STUD TYPE	STUD SPACING
5/8" PLYWOOD SHEATHING 303 CONFORMING TO PS1-09. VERTICAL GROOVES @ 8" O.C.	WALL FINISH PER A5.0 & A5.1	HEM FIR #2 OR DOUG FIR #2	16" O.C. MAX
5/16" HARDI-BOARD w/ SYNTHETIC STUCCO OR 5/16" HARDI-LAP SIDING	WALL FINISH PER A5.4, A5.5, A5.6 & A5.7	HEM FIR #2 OR DOUG FIR #2	16" O.C. MAX
1/2" PLYWOOD SHEATHING CONFORMING TO PS1-09, APA RATED, 5 PLY 32/16", OR 1/2" OSB PANELS EXPOSURE 1 w/ 7/8" STUCCO	WALL FINISH PER A5.2 & A5.3; NAILING PER BLDG SECTIONS[1,2]	HEM FIR #2 OR DOUG FIR #2	16" O.C. MAX

FOOTNOTES

1. ALL NAILS IN EXTERIOR APPLICATIONS SHALL BE GALVANIZED.
2. TYPICAL PLYWOOD NAILING WHERE OCCURS: 0.131"Ø x2 1/4" GALV. NAILS @ 6" O.C. E.N. & 12" O.C. F.N. (ALL EDGES BLOCKED).

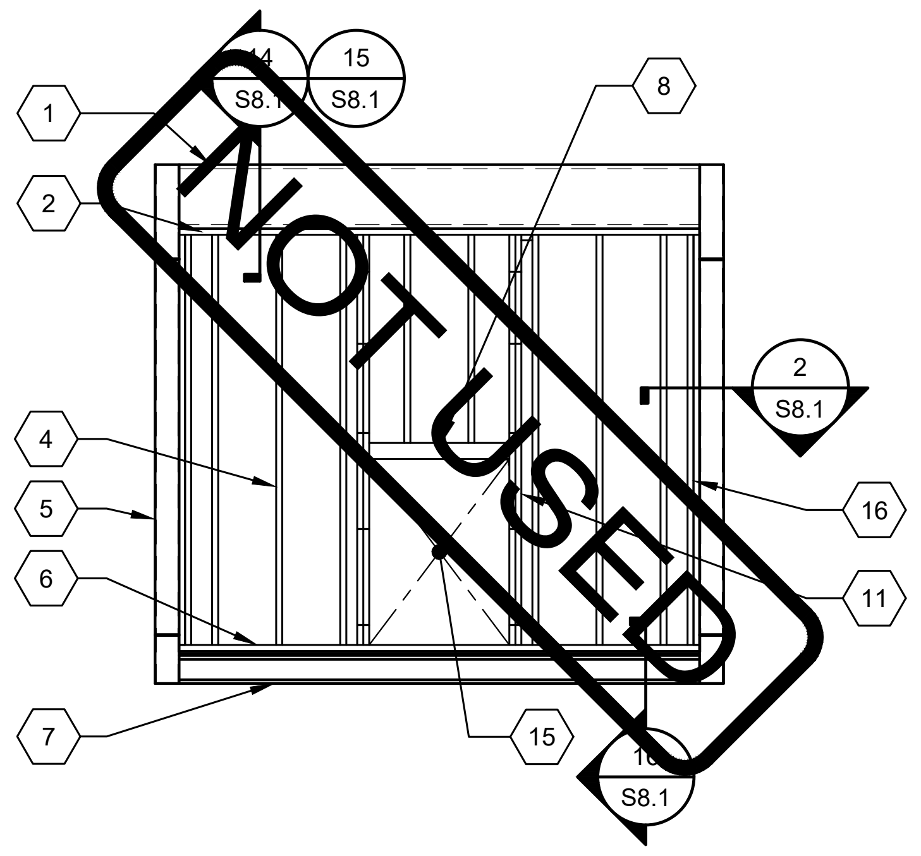
EXTERIOR WALL FINISH/WALL STUD SCHEDULE



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

TYP. END WALL FRAMING w/ NO OPENINGS

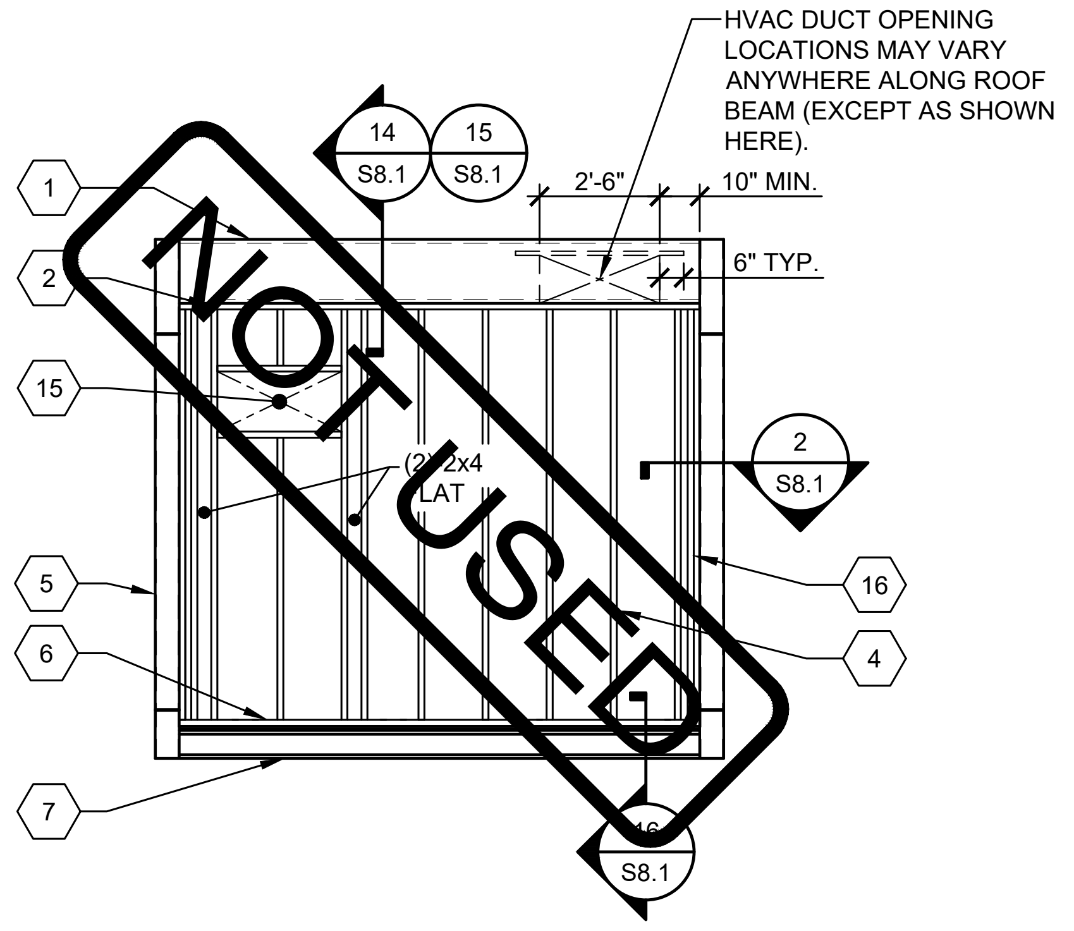
SCALE: 1/4"=1'-0" 1



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

TYP. END WALL FRAMING w/ INDOOR HVAC UNIT (OPTIONAL)

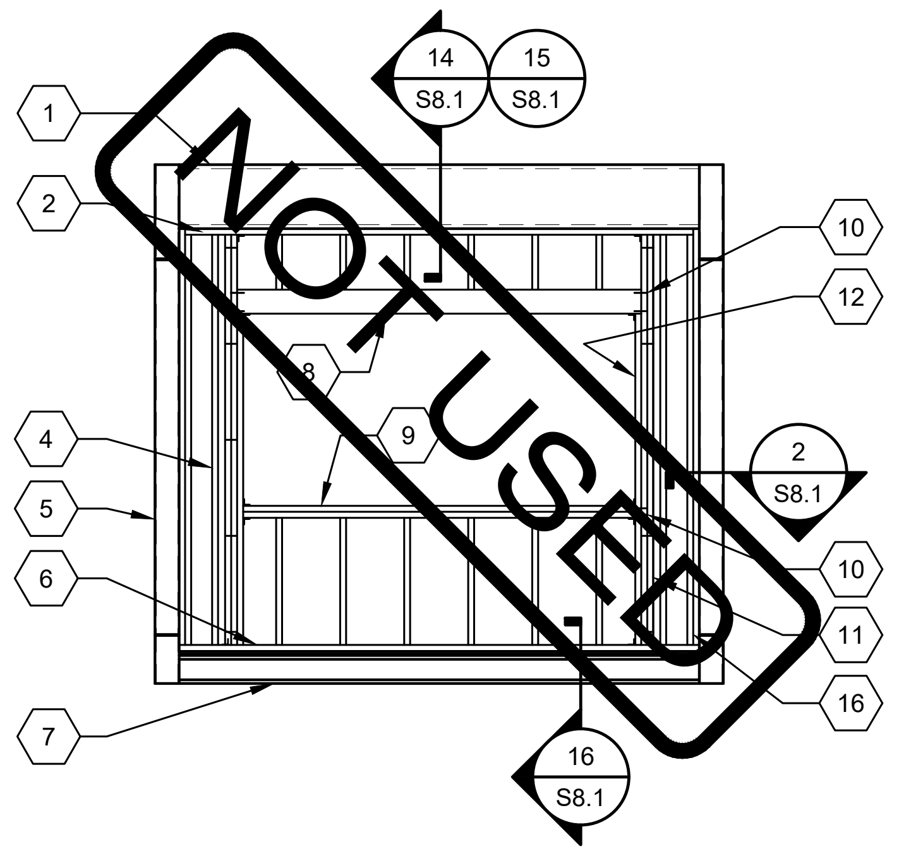
SCALE: 1/4"=1'-0" 2


NOT USED
HVAC DUCT OPENING LOCATIONS MAY VARY ANYWHERE ALONG ROOF BEAM (EXCEPT AS SHOWN HERE).
14 S8.1
15 S8.1
2'-6"
10" MIN.
6" TYP.
1
2
15
(2) 2x4 LAT
2 S8.1
5
6
7
16
4
16 S8.1

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

TYP. END WALL FRAMING w/ WALL HUNG HVAC UNIT (OPTIONAL)

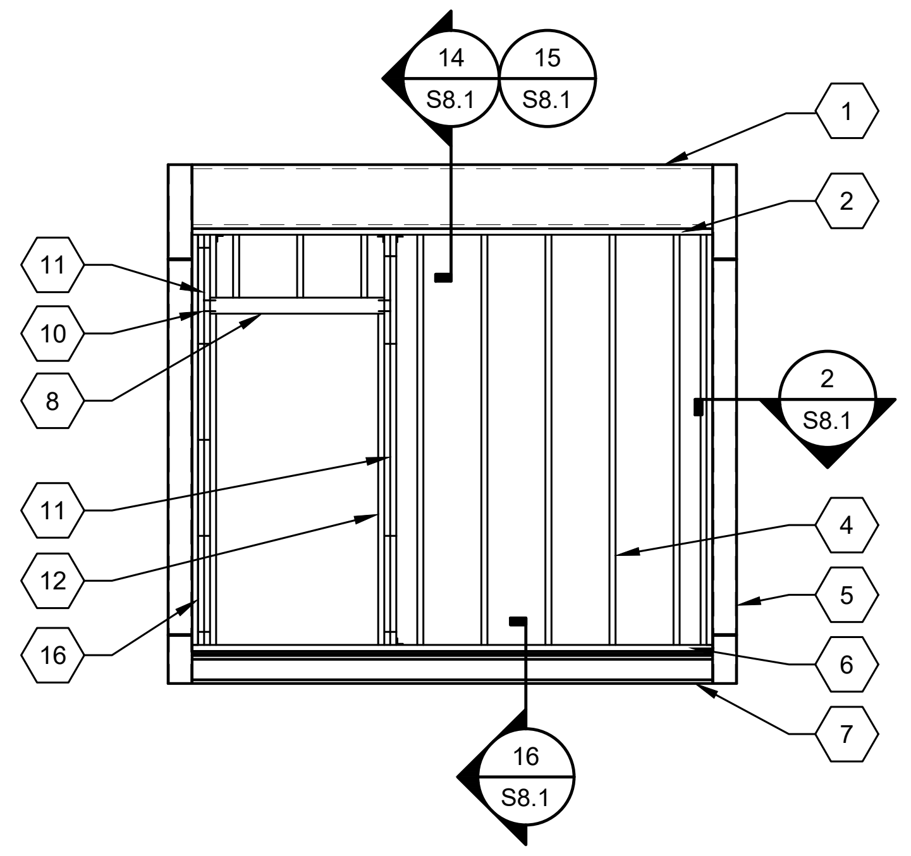
SCALE: 1/4"=1'-0" 3



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

TYPICAL END WALL FRAMING WINDOW

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



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

TYPICAL END WALL FRAMING w/ DOOR

SCALE: 1/4"=1'-0" 5

DOOR/WINDOW OPENING AT TYPICAL WALL (NO STUCCO)

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

DOOR/WINDOW OPENING AT STUCCO WALL

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

FOOTNOTES

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

OPENING SCHEDULE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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

FORM

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

MANNY D. FRISCH
No. S3380
RST#22214
02-08-24

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REVISIONS

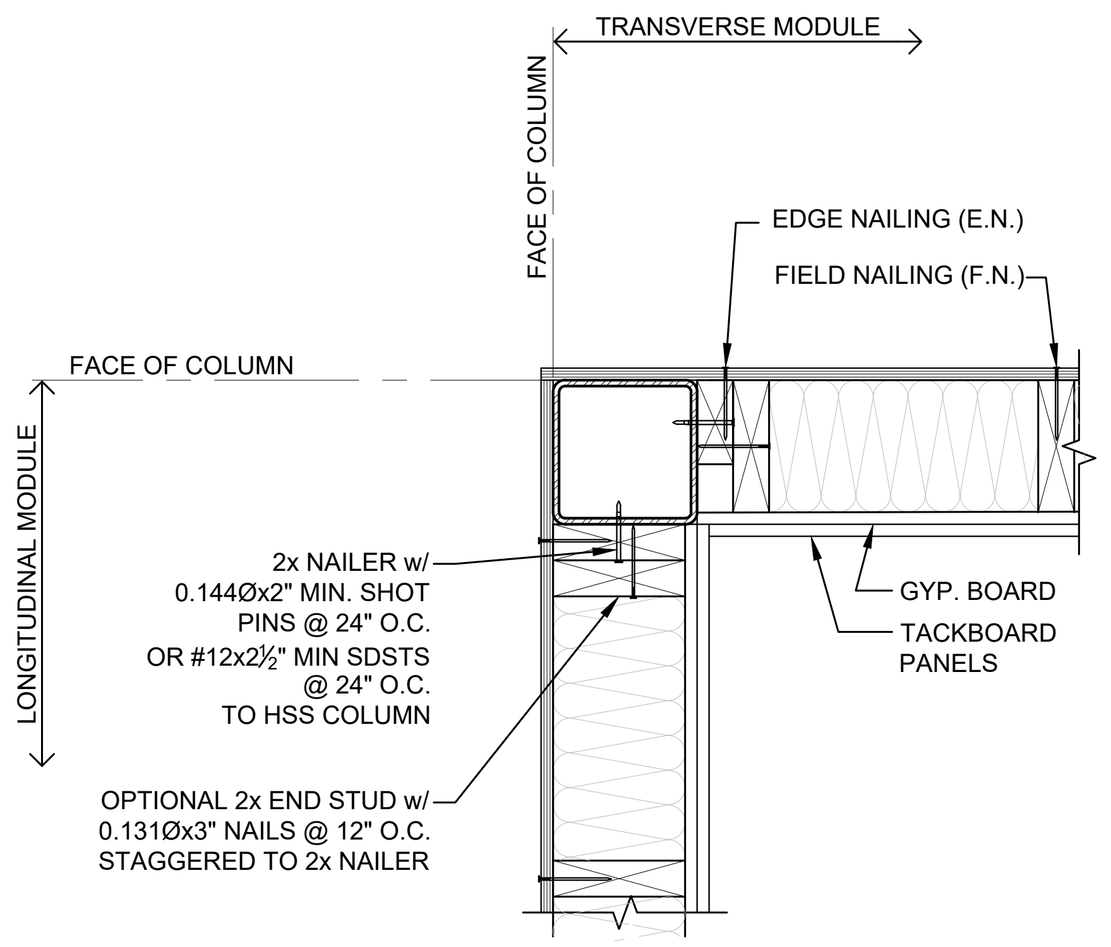
△1	
△2	
△3	
△4	

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

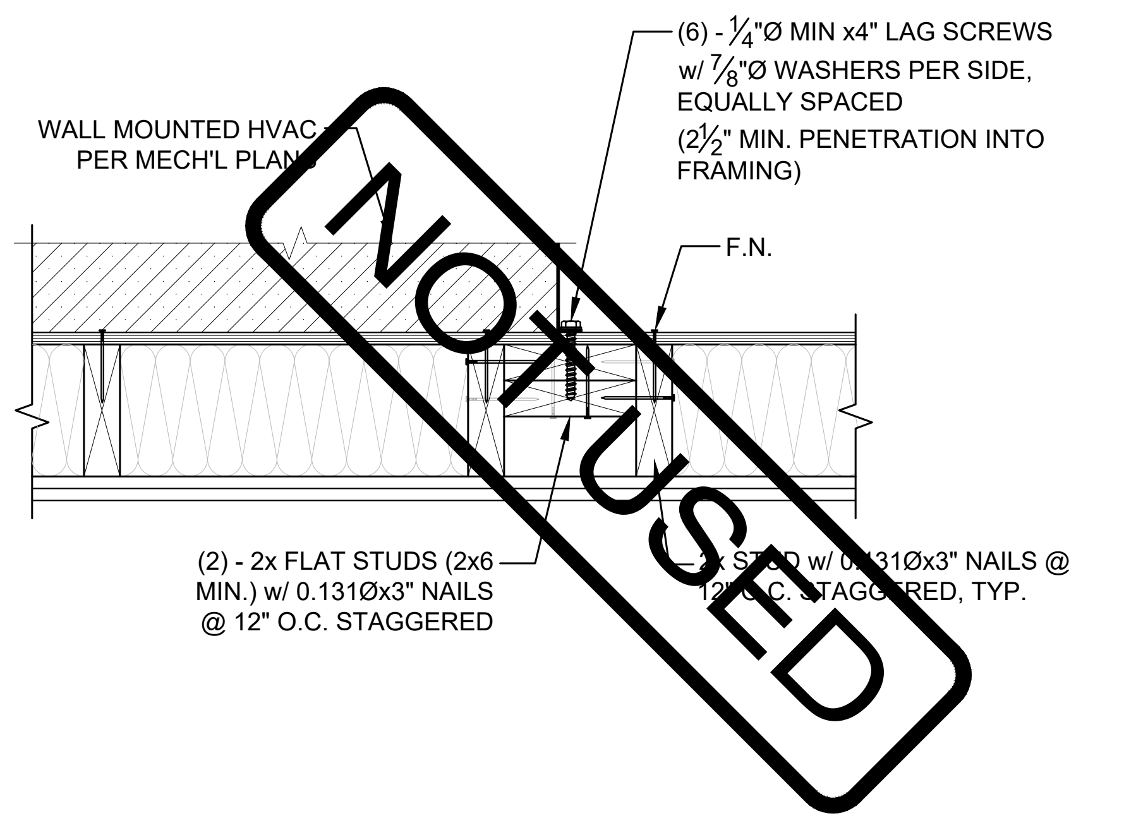
SHEET TITLE:
WALL FRAMING
ELEVATIONS & SCHEDULES
- WOOD STUDS

SHEET NUMBER:
S8.0

NOT USED
1

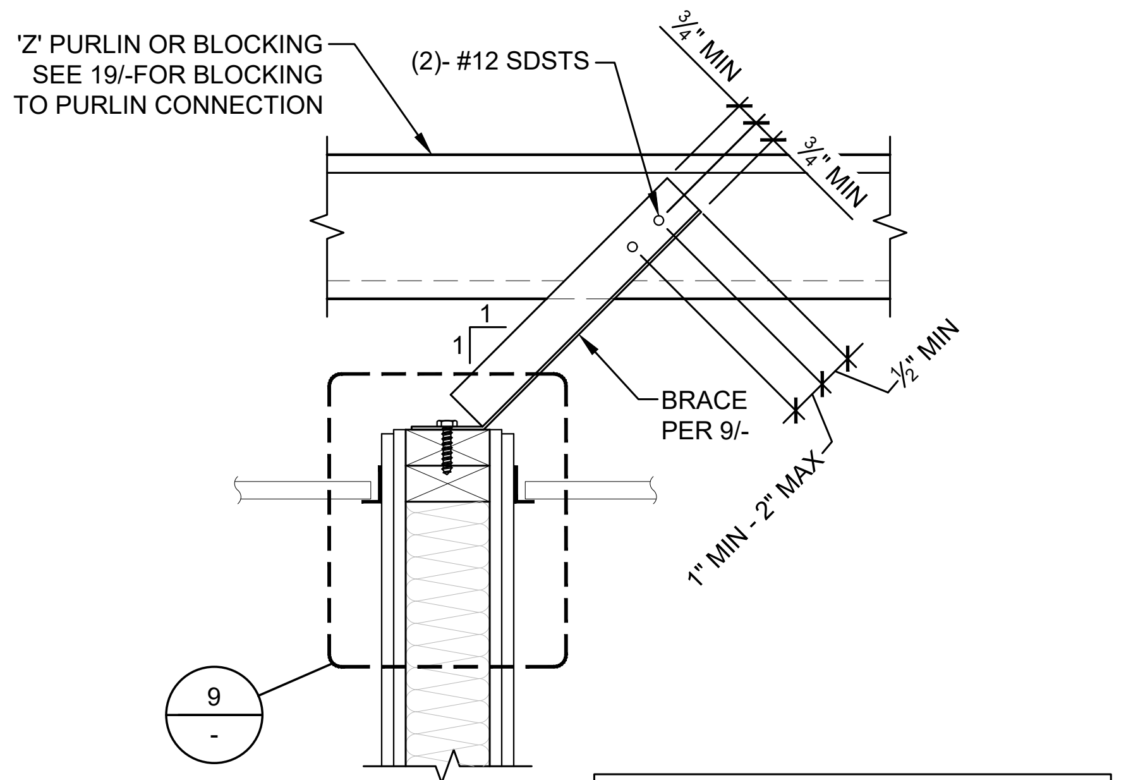

TRANSVERSE MODULE
FACE OF COLUMN
EDGE NAILING (E.N.)
FIELD NAILING (F.N.)
FACE OF COLUMN
LONGITUDINAL MODULE
2x NAILER w/ 0.144Ø x2" MIN. SHOT PINS @ 24" O.C. OR #12x2½" MIN SDSTS @ 24" O.C. TO HSS COLUMN
GYP. BOARD
TACKBOARD PANELS
OPTIONAL 2x END STUD w/ 0.131Øx3" NAILS @ 12" O.C. STAGGERED TO 2x NAILER

WALL TO COLUMN TYP. DETAIL @ CORNER
FOR COLUMN LOCATION REFER TO ARCH. DETAILS
SCALE: 1-1/2" = 1'-0"
2


NOT USED
WALL MOUNTED HVAC PER MECH'L PLANS
(6) - ¼"Ø MIN x4" LAG SCREWS w/ 7/8"Ø WASHERS PER SIDE, EQUALLY SPACED (2½" MIN. PENETRATION INTO FRAMING)
F.N.
(2) - 2x FLAT STUDS (2x6 MIN.) w/ 0.131Øx3" NAILS @ 12" O.C. STAGGERED
2x STUD w/ 0.131Øx3" NAILS @ 12" O.C. STAGGERED, TYP.

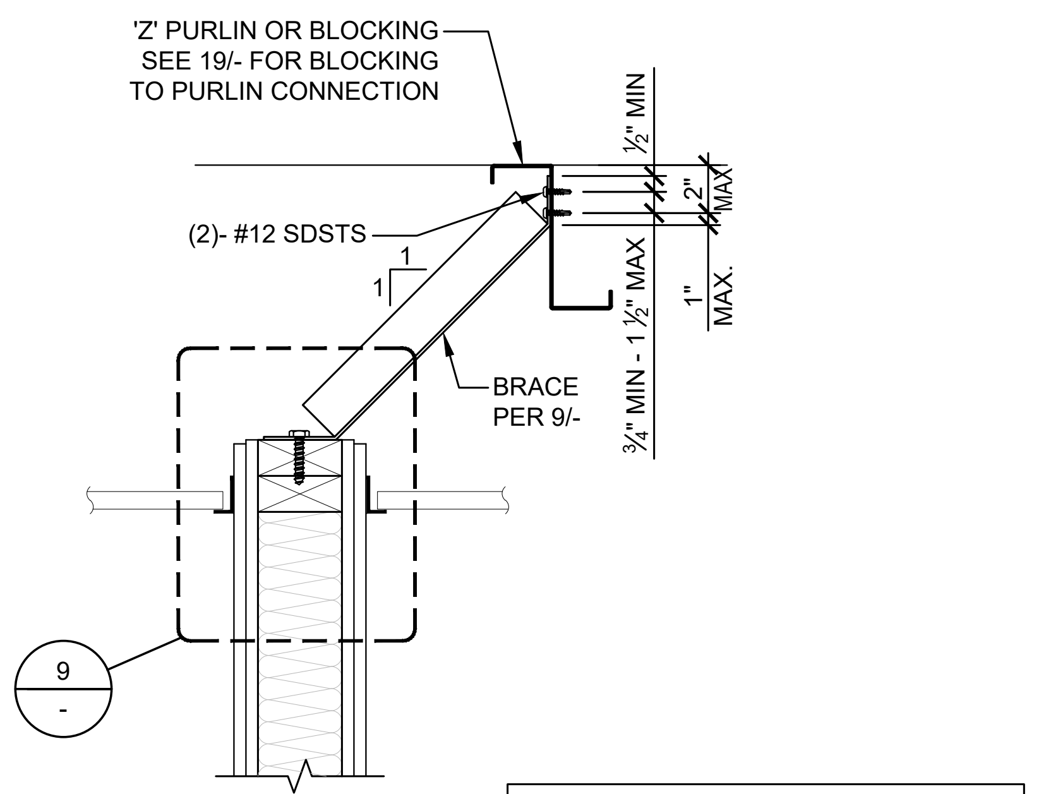
WALL HUNG HVAC ATTACHMENT DETAIL
SCALE: 1-1/2" = 1'-0"
3

NOT USED
4


'Z' PURLIN OR BLOCKING SEE 19/-FOR BLOCKING TO PURLIN CONNECTION
(2)- #12 SDSTS
¾" MIN
¾" MIN
½" MIN
1
1
BRACE PER 9/-
1" MIN - 2" MAX
9
-

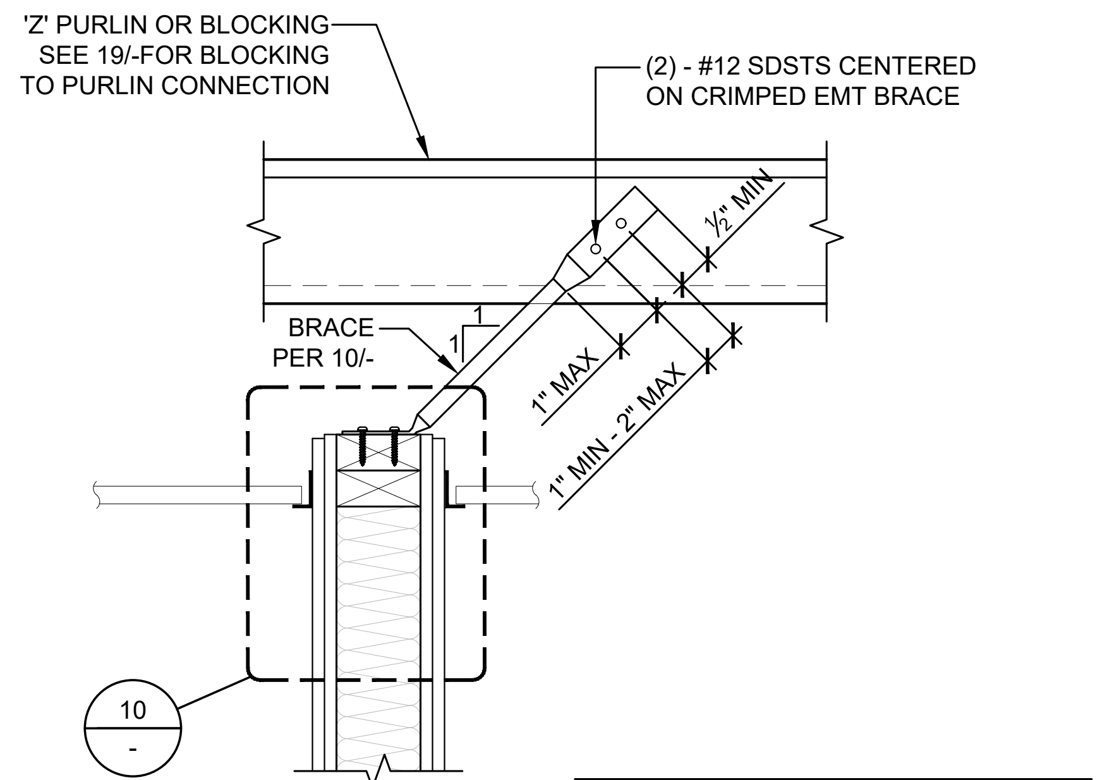
NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

TYP. INTERIOR WALL BRACING
BRACE PARALLEL TO PURLINS
SCALE: 1-1/2" = 1'-0"
5


'Z' PURLIN OR BLOCKING SEE 19/- FOR BLOCKING TO PURLIN CONNECTION
(2)- #12 SDSTS
½" MIN
2" MAX
1" MAX
¾" MIN - 1½" MAX
1
1
BRACE PER 9/-
9
-

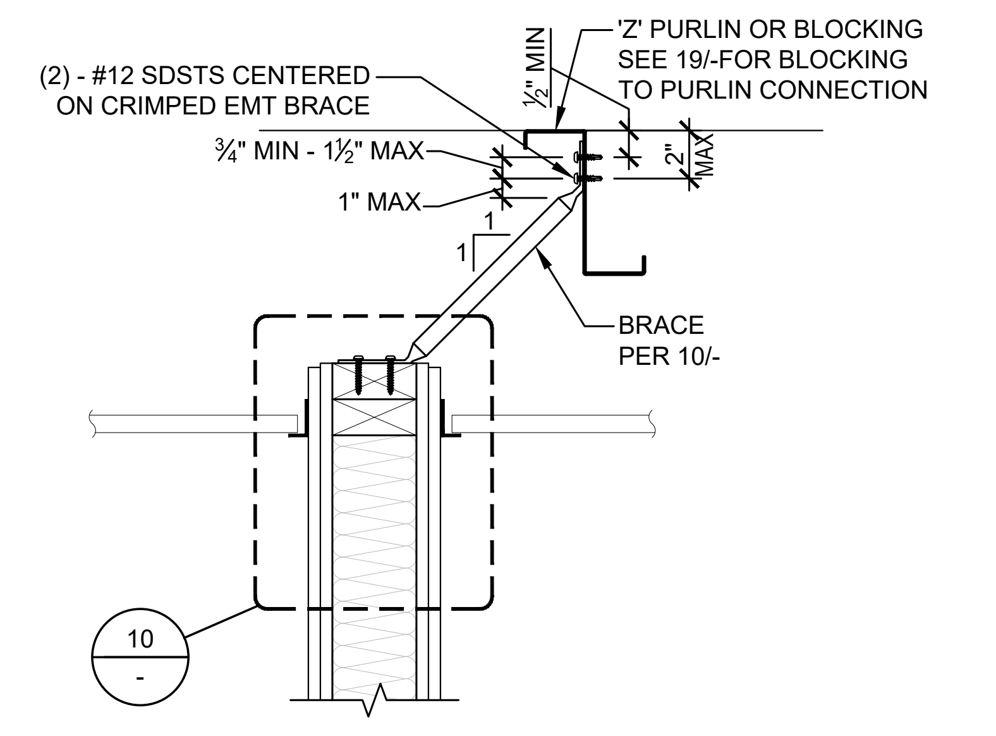
NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

TYP. INTERIOR WALL BRACING
BRACE PERPENDICULAR TO PURLINS
SCALE: 1-1/2" = 1'-0"
6


'Z' PURLIN OR BLOCKING SEE 19/-FOR BLOCKING TO PURLIN CONNECTION
(2) - #12 SDSTS CENTERED ON CRIMPED EMT BRACE
½" MIN
BRACE PER 10/-
1
1
1" MAX
1" MIN - 2" MAX
10
-

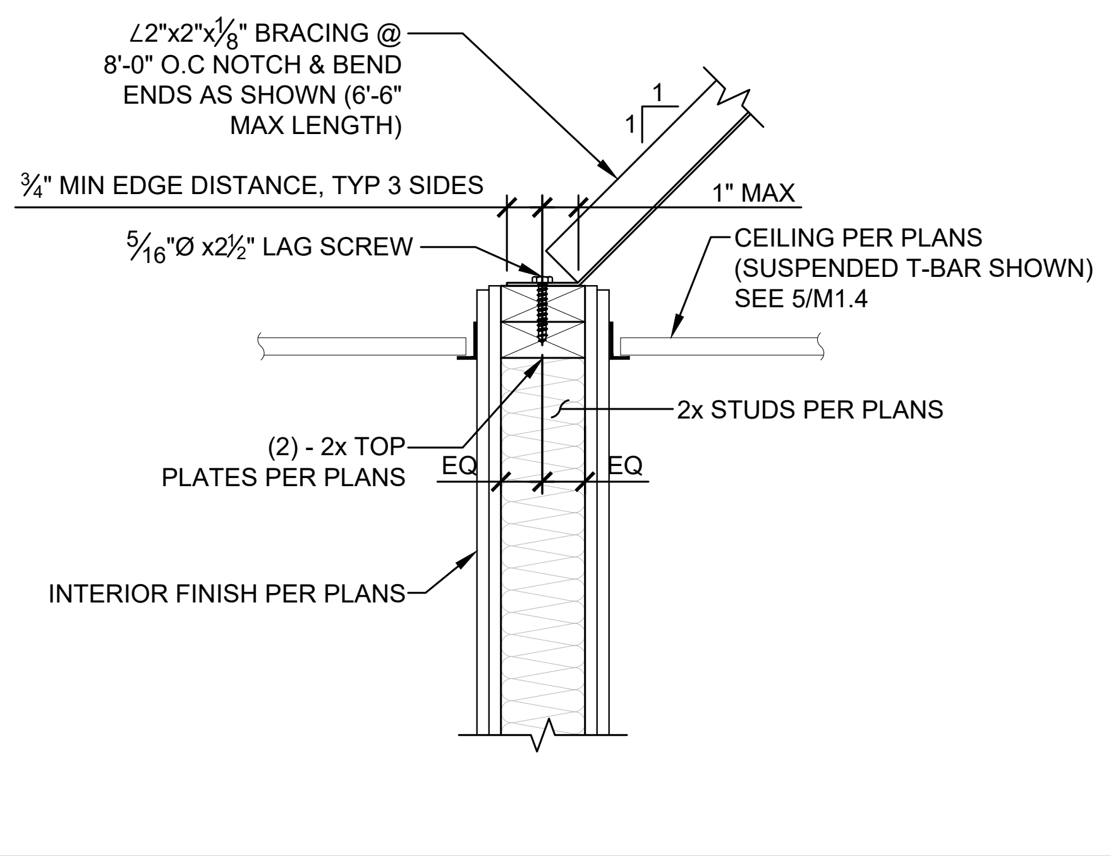
NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

ALT. INTERIOR WALL BRACING w/ EMT BRACE
BRACE PARALLEL TO PURLINS
SCALE: 1-1/2" = 1'-0"
7


(2) - #12 SDSTS CENTERED ON CRIMPED EMT BRACE
½" MIN
'Z' PURLIN OR BLOCKING SEE 19/-FOR BLOCKING TO PURLIN CONNECTION
¾" MIN - 1½" MAX
1" MAX
2" MAX
1
1
BRACE PER 10/-
10
-

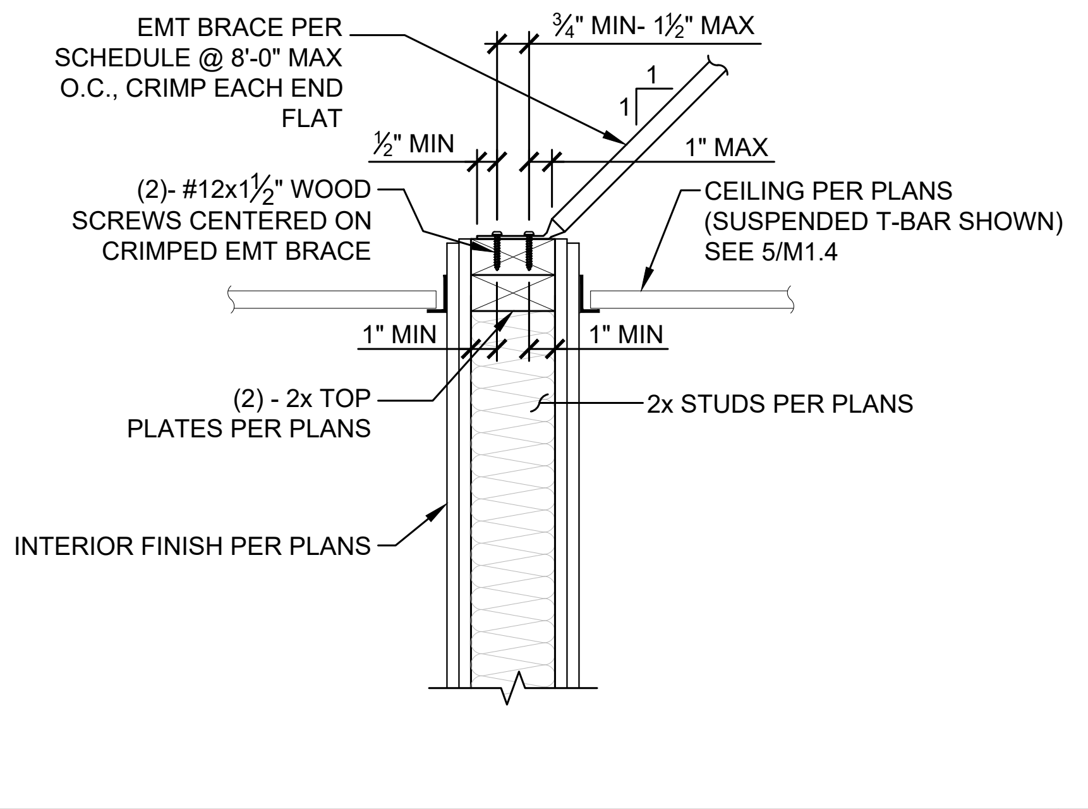
NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

ALT. INTERIOR WALL BRACING w/ EMT BRACE
BRACE PERPENDICULAR TO PURLINS
SCALE: 1-1/2" = 1'-0"
8

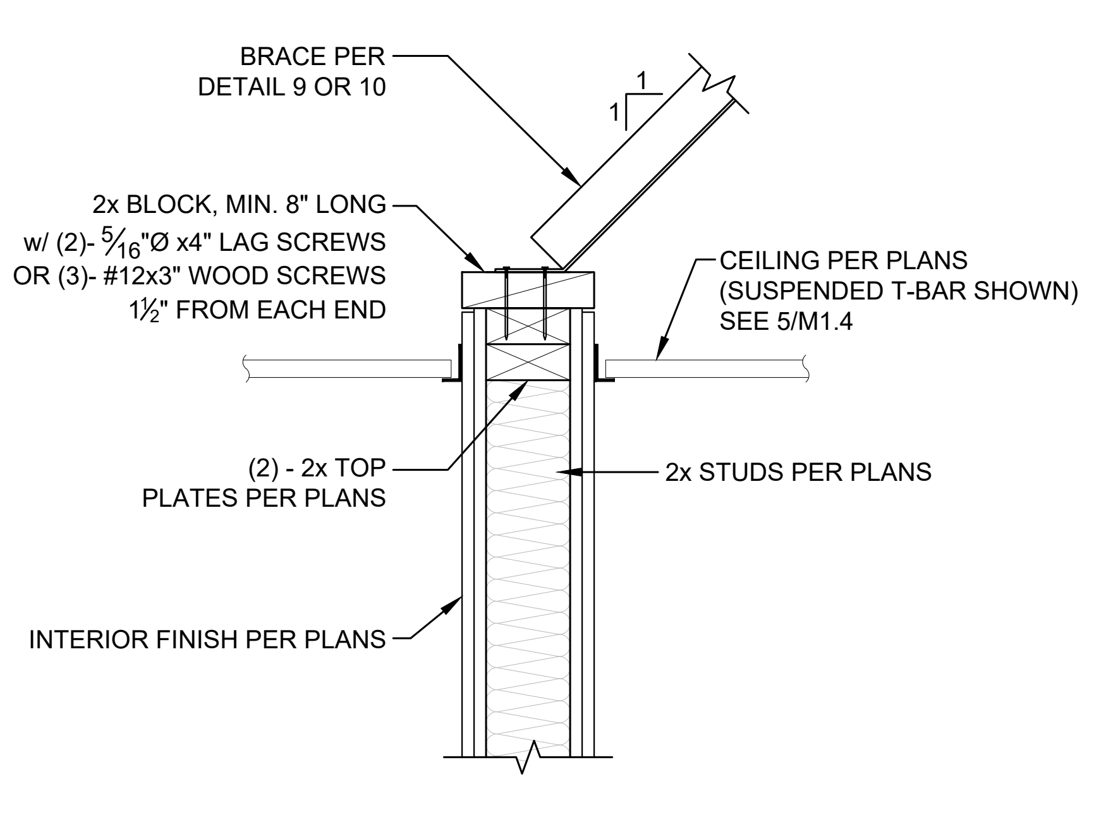

∠2"x2"x⅛" BRACING @ 8'-0" O.C NOTCH & BEND ENDS AS SHOWN (6'-6" MAX LENGTH)
1
1
¾" MIN EDGE DISTANCE, TYP 3 SIDES
1" MAX
5/16"Ø x2½" LAG SCREW
CEILING PER PLANS (SUSPENDED T-BAR SHOWN) SEE 5/M1.4
2x STUDS PER PLANS
(2) - 2x TOP PLATES PER PLANS
EQ
EQ
INTERIOR FINISH PER PLANS

TYP. INTERIOR WALL BRACING
INTERIOR PARTITION BRACING
SCALE: 1-1/2" = 1'-0"
9

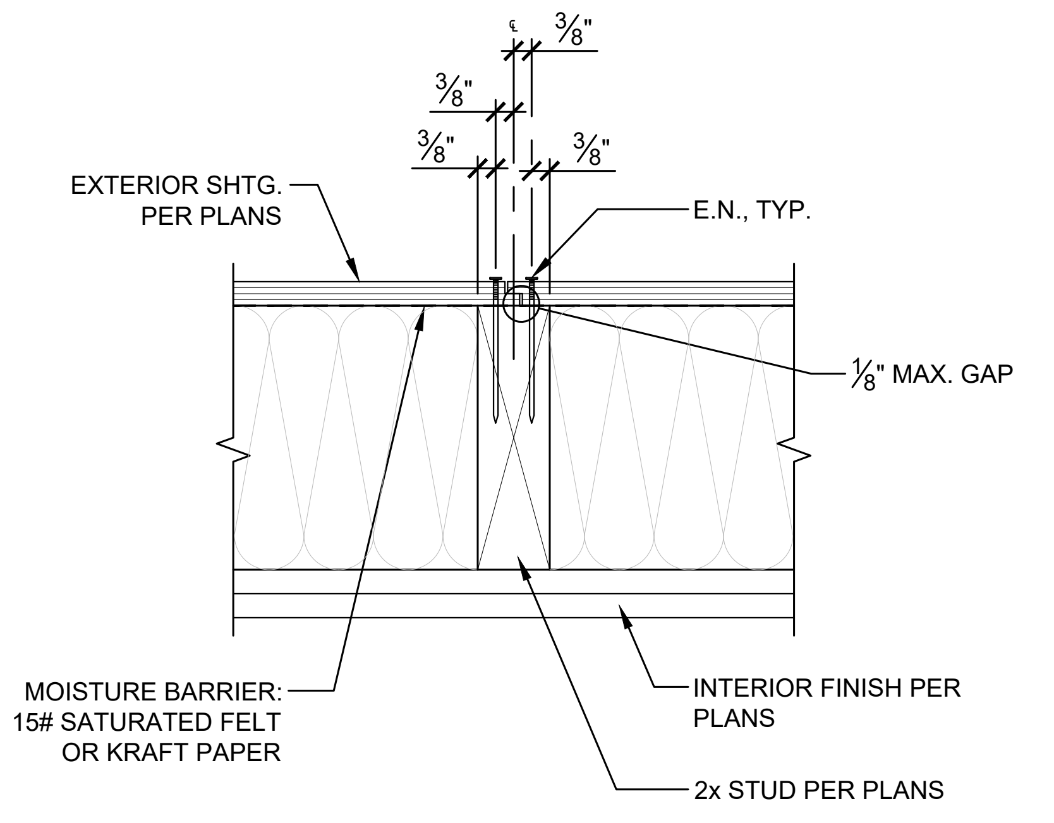
EMT BRACE SCHEDULE	
MAX LENGTH	EMT SIZE
5'-2"	¾"Ø
6'-6"	1"Ø


EMT BRACE PER SCHEDULE @ 8'-0" MAX O.C., CRIMP EACH END FLAT
¾" MIN- 1½" MAX
1
1
½" MIN
1" MAX
(2)- #12x1½" WOOD SCREWS CENTERED ON CRIMPED EMT BRACE
CEILING PER PLANS (SUSPENDED T-BAR SHOWN) SEE 5/M1.4
1" MIN
1" MIN
(2) - 2x TOP PLATES PER PLANS
2x STUDS PER PLANS
INTERIOR FINISH PER PLANS

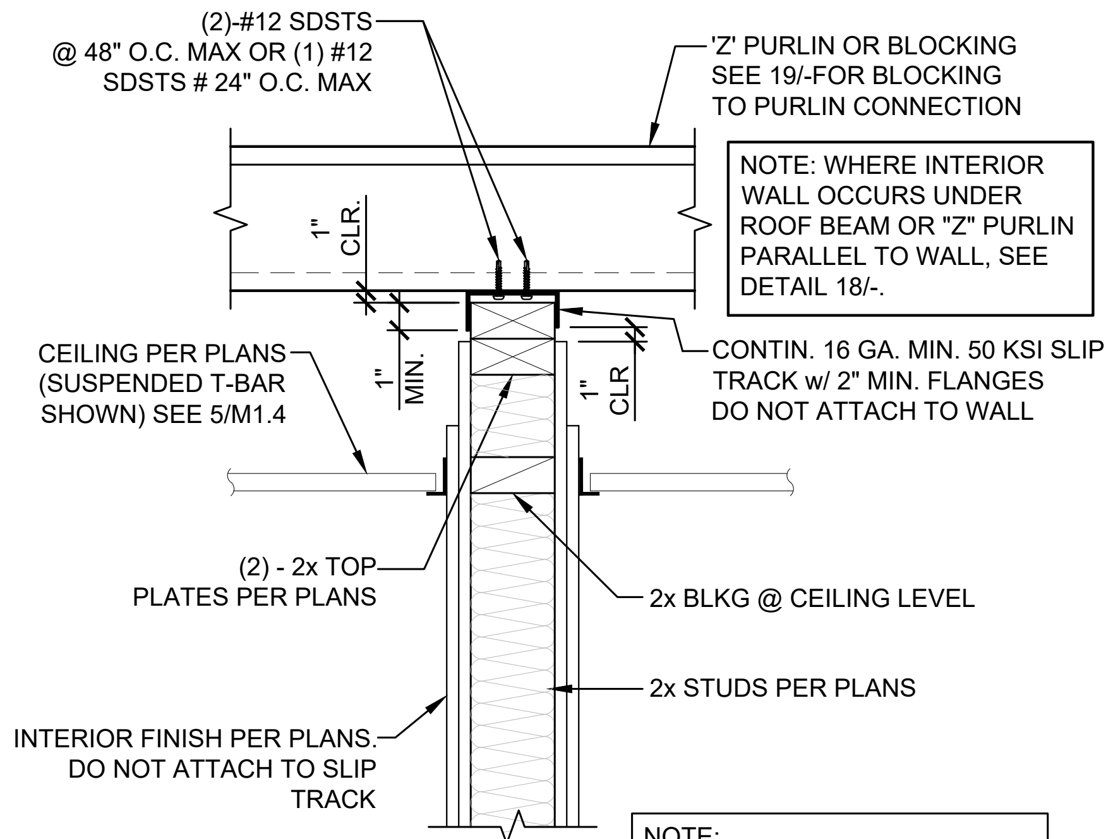
ALT. INTERIOR WALL BRACING
INTERIOR PARTITION BRACING w/ EMT BRACE
SCALE: 1-1/2" = 1'-0"
10


BRACE PER DETAIL 9 OR 10
1
1
2x BLOCK, MIN. 8" LONG w/ (2)- 5/16"Ø x4" LAG SCREWS OR (3)- #12x3" WOOD SCREWS 1½" FROM EACH END
CEILING PER PLANS (SUSPENDED T-BAR SHOWN) SEE 5/M1.4
(2) - 2x TOP PLATES PER PLANS
2x STUDS PER PLANS
INTERIOR FINISH PER PLANS

ALT. BLOCKING @ INT. WALL BRACING
SCALE: 1-1/2" = 1'-0"
11


⅜"
⅜"
⅜"
⅜"
EXTERIOR SHTG. PER PLANS
E.N., TYP.
⅛" MAX. GAP
MOISTURE BARRIER: 15# SATURATED FELT OR KRAFT PAPER
INTERIOR FINISH PER PLANS
2x STUD PER PLANS

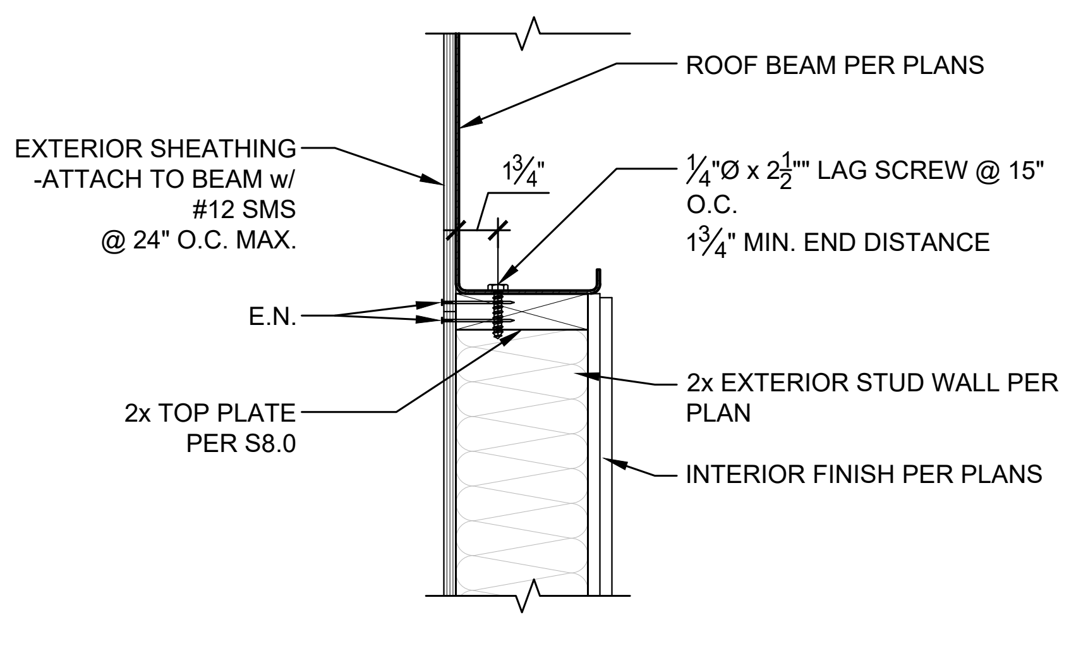
TYP. SHEATHING JOINT
SCALE: 1-1/2" = 1'-0"
12


(2)-#12 SDSTS @ 48" O.C. MAX OR (1) #12 SDSTS # 24" O.C. MAX
'Z' PURLIN OR BLOCKING SEE 19/-FOR BLOCKING TO PURLIN CONNECTION
1" CLR.
1" MIN.
1" CLR.
CEILING PER PLANS (SUSPENDED T-BAR SHOWN) SEE 5/M1.4
CONTIN. 16 GA. MIN. 50 KSI SLIP TRACK w/ 2" MIN. FLANGES DO NOT ATTACH TO WALL
(2) - 2x TOP PLATES PER PLANS
2x BLKG @ CEILING LEVEL
2x STUDS PER PLANS
INTERIOR FINISH PER PLANS. DO NOT ATTACH TO SLIP TRACK

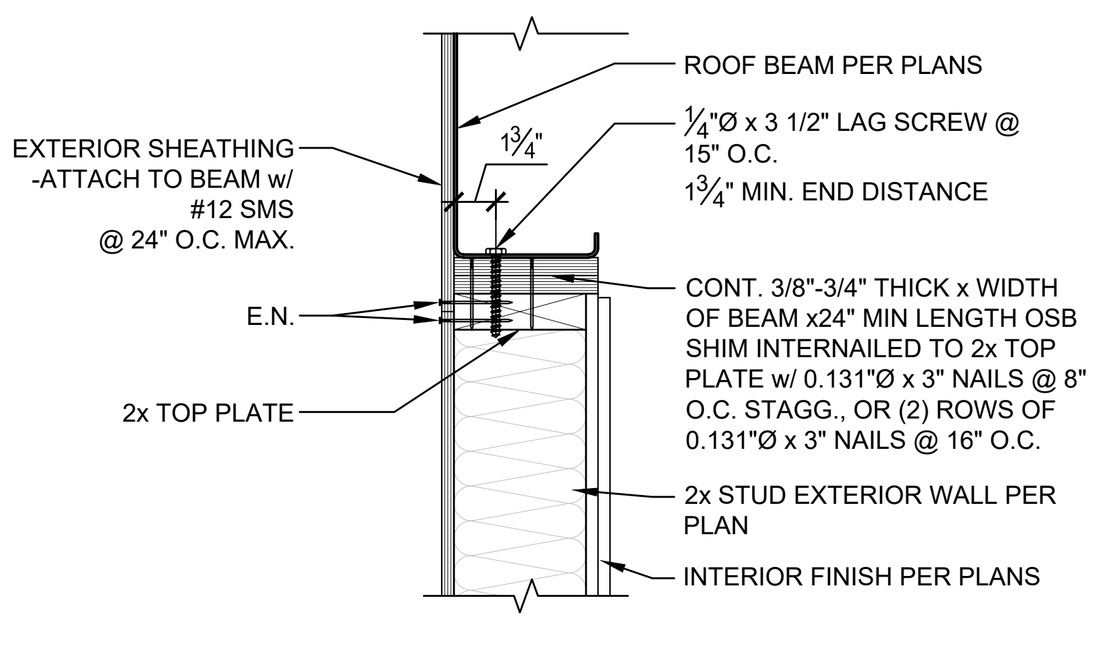
NOTE: WHERE INTERIOR WALL OCCURS UNDER ROOF BEAM OR "Z" PURLIN PARALLEL TO WALL, SEE DETAIL 18/-.

NOTE:
GYPSUM BOARD SHALL NOT BE ATTACHED TO THE SLIP TRACK.

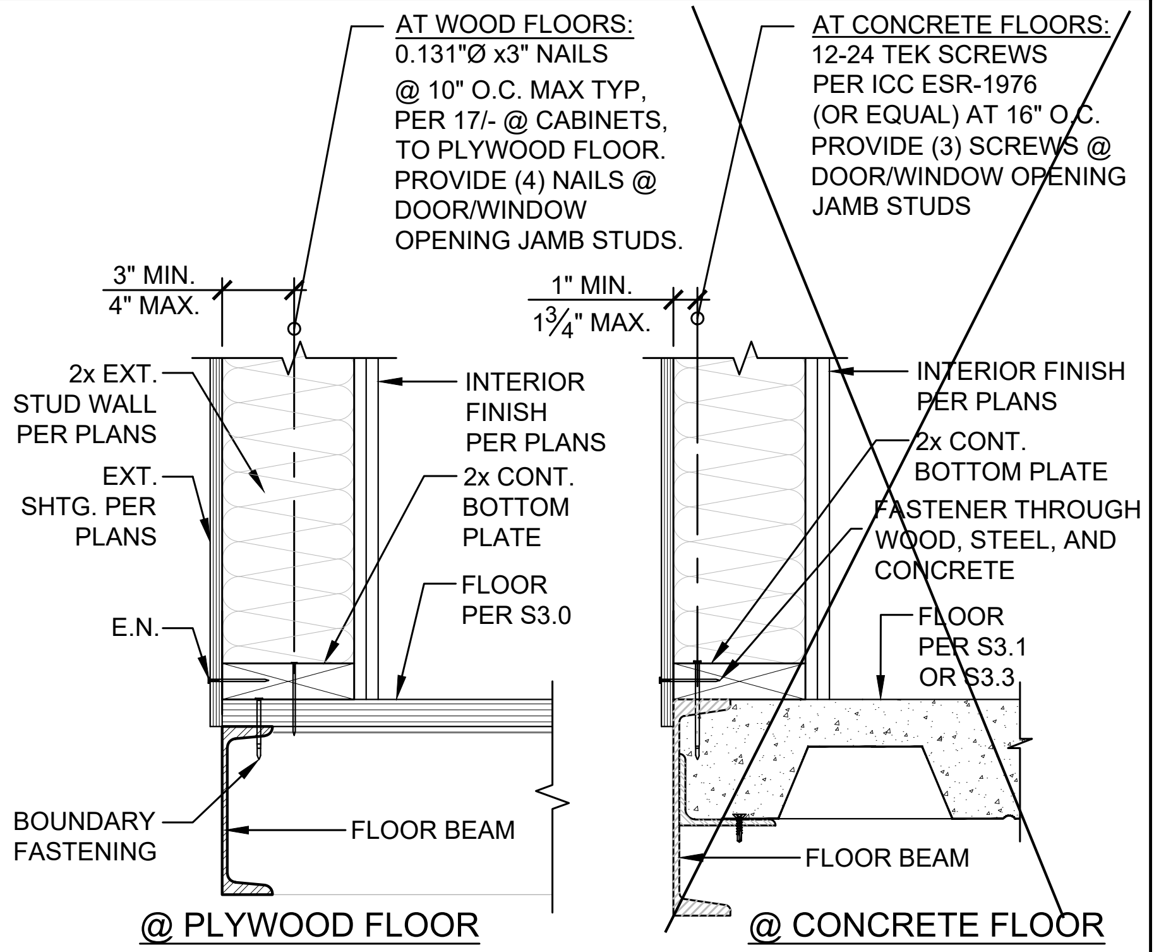
ALT. INTERIOR WALL ATTACHMENT
TO PURLINS OR BLOCKING PERPENDICULAR TO WALL
SCALE: 1-1/2" = 1'-0"
13


ROOF BEAM PER PLANS
EXTERIOR SHEATHING -ATTACH TO BEAM w/ #12 SMS @ 24" O.C. MAX.
1¾"
¼"Ø x 2½"" LAG SCREW @ 15" O.C.
1¾" MIN. END DISTANCE
E.N.
2x EXTERIOR STUD WALL PER PLAN
2x TOP PLATE PER S8.0
INTERIOR FINISH PER PLANS

EXTERIOR WALL TO ROOF BEAM DETAIL
SCALE: 1-1/2" = 1'-0"
14


ROOF BEAM PER PLANS
EXTERIOR SHEATHING -ATTACH TO BEAM w/ #12 SMS @ 24" O.C. MAX.
1¾"
¼"Ø x 3 1/2" LAG SCREW @ 15" O.C.
1¾" MIN. END DISTANCE
E.N.
CONT. 3/8"-3/4" THICK x WIDTH OF BEAM x24" MIN LENGTH OSB SHIM INTERNAILED TO 2x TOP PLATE w/ 0.131"Ø x 3" NAILS @ 8" O.C. STAGG., OR (2) ROWS OF 0.131"Ø x 3" NAILS @ 16" O.C.
2x TOP PLATE
2x STUD EXTERIOR WALL PER PLAN
INTERIOR FINISH PER PLANS

EXTERIOR WALL TO ROOF BEAM DETAIL
AT SHIM CONDITION
SCALE: 1-1/2" = 1'-0"
15

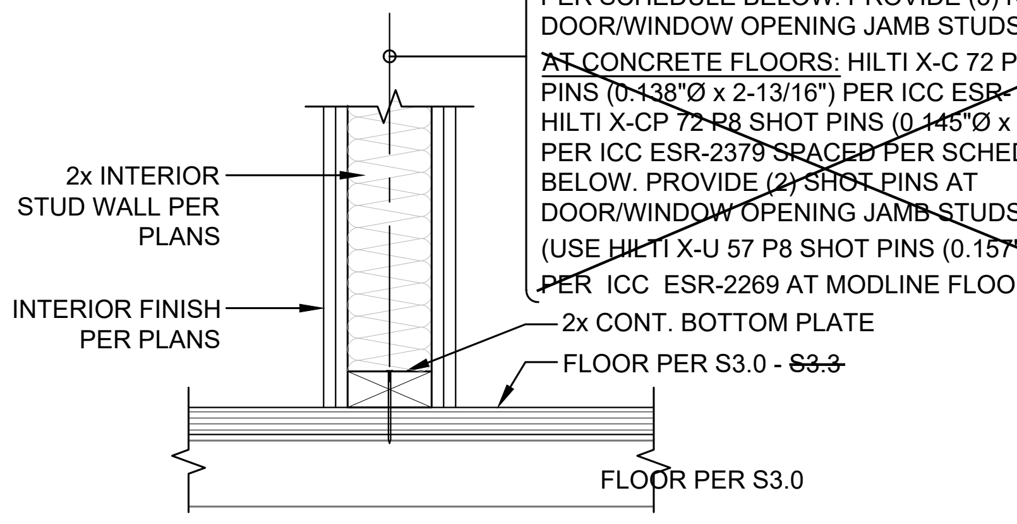

AT WOOD FLOORS: 0.131"Ø x3" NAILS @ 10" O.C. MAX TYP, PER 17/- @ CABINETS, TO PLYWOOD FLOOR. PROVIDE (4) NAILS @ DOOR/WINDOW OPENING JAMB STUDS.
AT CONCRETE FLOORS: 12-24 TEK SCREWS PER ICC ESR-1976 (OR EQUAL) AT 16" O.C. PROVIDE (3) SCREWS @ DOOR/WINDOW OPENING JAMB STUDS
3" MIN.
4" MAX.
1" MIN.
1¾" MAX.
2x EXT. STUD WALL PER PLANS
EXT. SHTG. PER PLANS
INTERIOR FINISH PER PLANS
2x CONT. BOTTOM PLATE
FLOOR PER S3.0
E.N.
INTERIOR FINISH PER PLANS
2x CONT. BOTTOM PLATE
FASTENER THROUGH WOOD, STEEL, AND CONCRETE
FLOOR PER S3.1 OR S3.3
BOUNDARY FASTENING
FLOOR BEAM
FLOOR BEAM
@ PLYWOOD FLOOR
@ CONCRETE FLOOR

FASTENER END DISTANCE: 2" MIN - ½ OF SPACING MAX FROM ENDS OF PLATES, TYP.

TYP. EXTERIOR WALL TO FLOOR DETAIL
SCALE: 1-1/2" = 1'-0"
16

AT WOOD FLOORS: 0.131"Ø x3" NAILS SPACED PER SCHEDULE BELOW. PROVIDE (3) NAILS AT DOOR/WINDOW OPENING JAMB STUDS.

~~AT CONCRETE FLOORS: HILTI X-C 72 P8 SHOT PINS (0.138"Ø x 2-13/16") PER ICC ESR-1663 OR HILTI X-CP 72 P8 SHOT PINS (0.145"Ø x 2-13/16") PER ICC ESR-2379 SPACED PER SCHEDULE BELOW. PROVIDE (2) SHOT PINS AT DOOR/WINDOW OPENING JAMB STUDS. (USE HILTI X-U 57 P8 SHOT PINS (0.157"Ø x2 1/4") PER ICC ESR-2269 AT MODLINE FLOOR BEAMS)~~

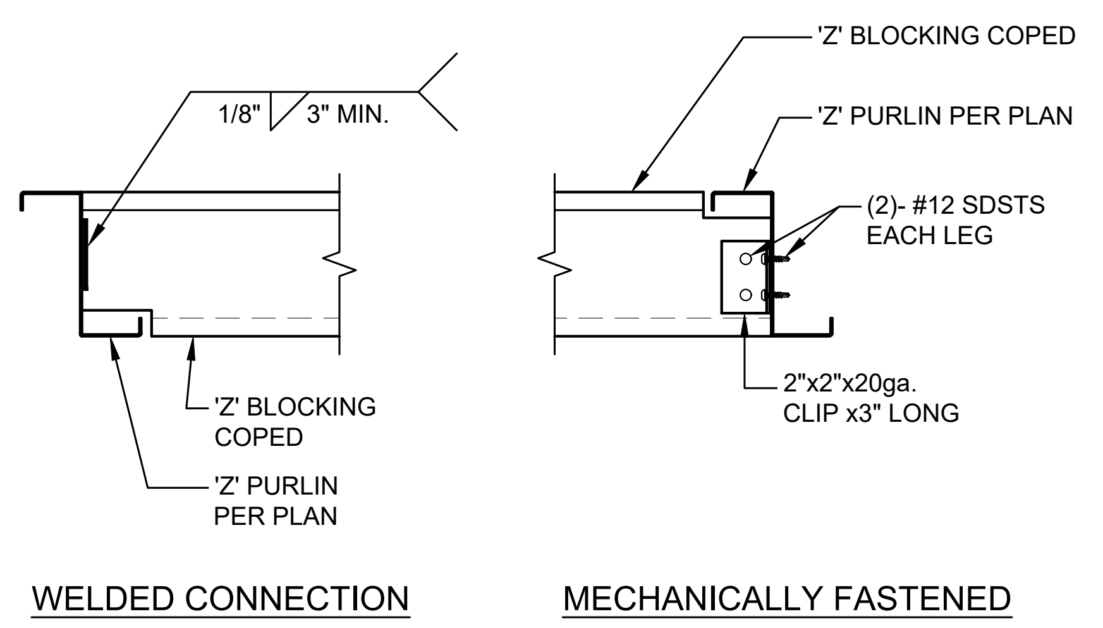

2x INTERIOR STUD WALL PER PLANS
INTERIOR FINISH PER PLANS
2x CONT. BOTTOM PLATE
FLOOR PER S3.0 - ~~S3.3~~
FLOOR PER S3.0

SILL PLATE FASTENER SPACING SCHEDULE		
	~~CONCRETE FLOOR~~	WOOD FLOOR
NO CABINETS	~~24" O.C.~~	24" O.C.
CABINETS ON ONE SIDE OF WALL	~~12" O.C.~~	10" O.C.
CABINETS ON BOTH SIDES OF WALL	~~6" O.C.~~	5" O.C.

FASTENER END DISTANCE: 2" MIN - ½ OF SPACING MAX FROM ENDS OF PLATES, TYP.

TYP. INTERIOR NON-BEARING WALL ATTACHMENT
SCALE: 1-1/2" = 1'-0"
17

NOT USED
18



WELDED CONNECTION

MECHANICALLY FASTENED

ALT. INTERIOR WALL ATTACHMENT
AT ROOF BEAM
19

TYPICAL INTERIOR NON-BEARING PARTITION WALL NOTES:

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

PURLIN BLOCKING CONNECTIONS
20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

MANNY D. FRISCH
No. S3380
RST#22214
02-08-24

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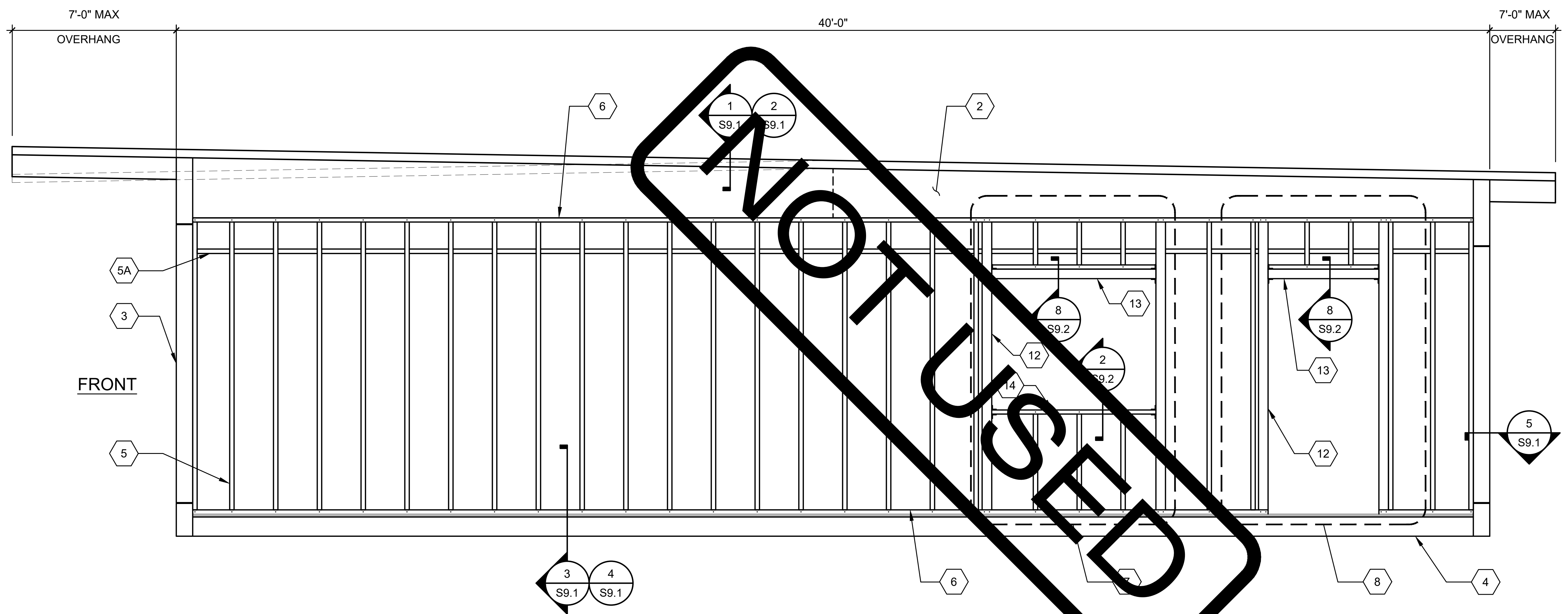
REVISIONS
1
2
3
4

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

SHEET TITLE:
WALL FRAMING
DETAILS
- WOOD STUDS

SHEET NUMBER:
S8.1



NOTE:
FOR ADDITIONAL 2x4 ATTACHMENT AROUND OPENING-SEE DETAIL 6

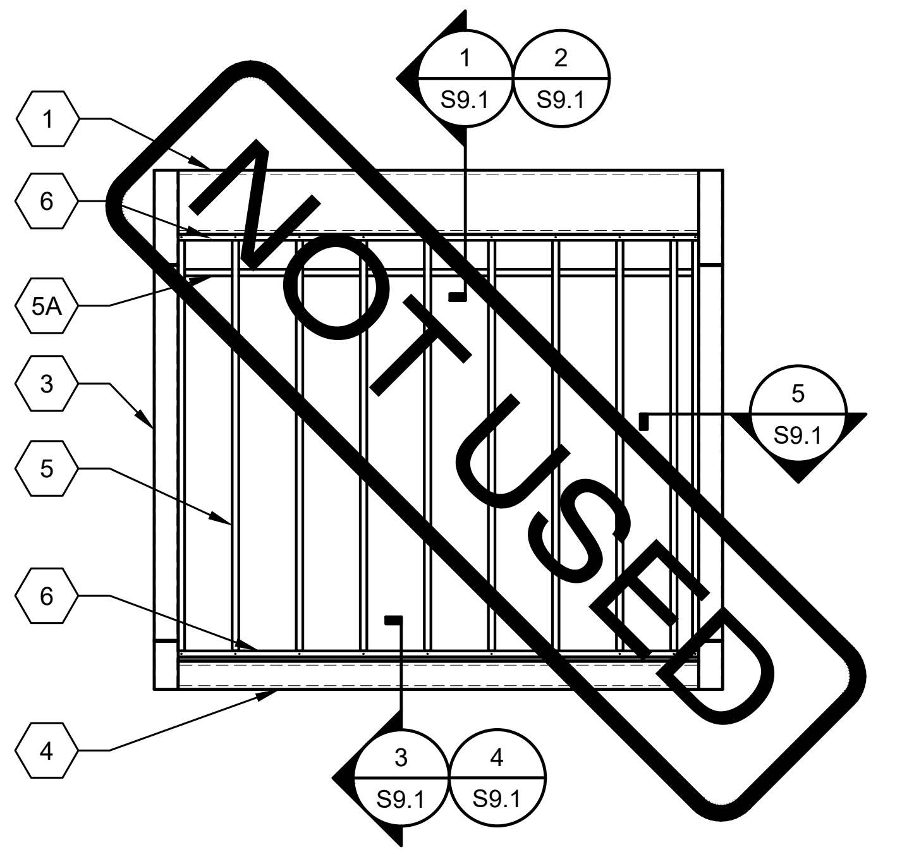
TYPICAL SIDE WALL FRAMING (MONO/DUAL PITCH)

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

KEY NOTES

1	TRANSVERSE ROOF BEAM PER SHEET S5.0
2	LONGITUDINAL ROOF BEAM PER SHEET S5.0
3	HSS COLUMN PER SHEET S5.0
4	PERIMETER FLOOR BEAM PER SHEET S5.0
5	STEEL STUDS PER STUD/TRACK SCHEDULE @ 16" O.C.
5A	STEEL BLOCKING @ HORIZONTAL PLYWOOD EDGES - SEE 20/S9.1
6	STEEL TRACK PER STUD/TRACK SCHEDULE
7	OPTIONAL WINDOW OPENING MAX 10'-0" WIDE (REFER TO 4/- 1&2/S9.2 FOR DETAILS & FLOOR PLANS FOR LOCATIONS)
8	OPTIONAL DOOR OPENING (REFER TO 5/- FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
9	HVAC OPENING - REFER TO 6 & 7/- FOR OPENING DETAILS & 18 & 19/S9.1 FOR WALL HUNG HVAC ATTACHMENT DETAILS
10	2x ADDITIONAL ATTACHMENT FOR FRAMING PER 6/- SEE KEYNOTE 11
11	ATTACHMENT: #8 SCREWS @ 8" O.C. THRU 2x4 TO METAL STUDS
12	KING STUD PER OPENING SCHEDULE
13	WINDOW / DOOR HEADER PER OPENING SCHEDULE
14	WINDOW SILL PER OPENING SCHEDULE

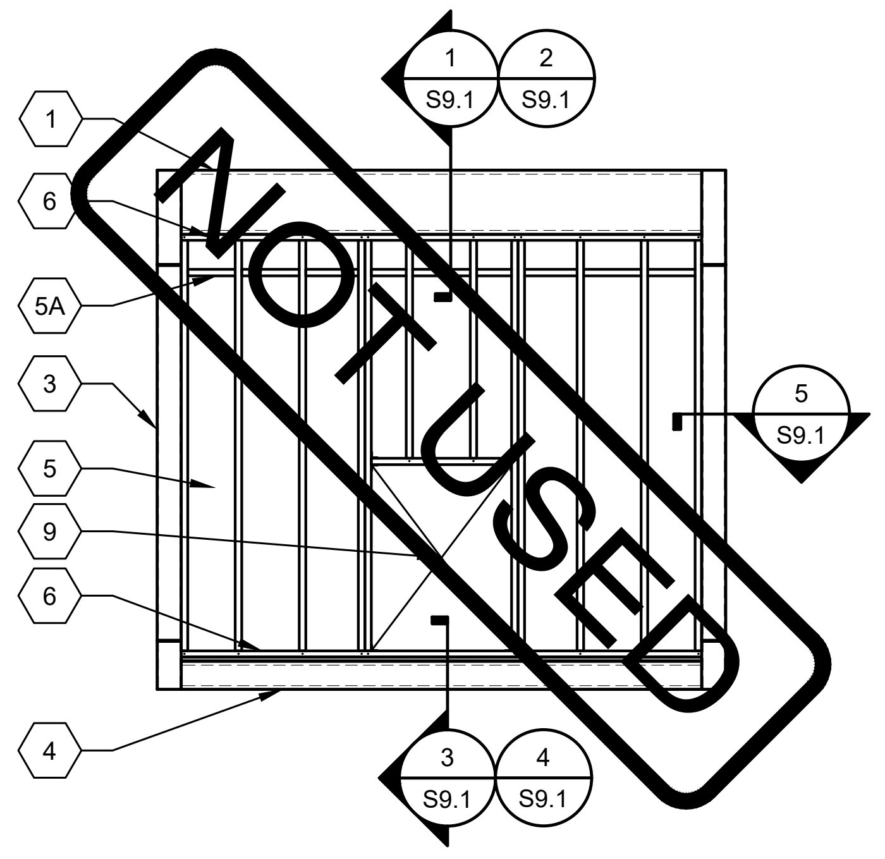
NOT USED



NOTE:
FOR ADDITIONAL 2x4 ATTACHMENT AROUND OPENING-SEE DETAIL 6

TYPICAL END WALL FRAMING w/NO OPENINGS

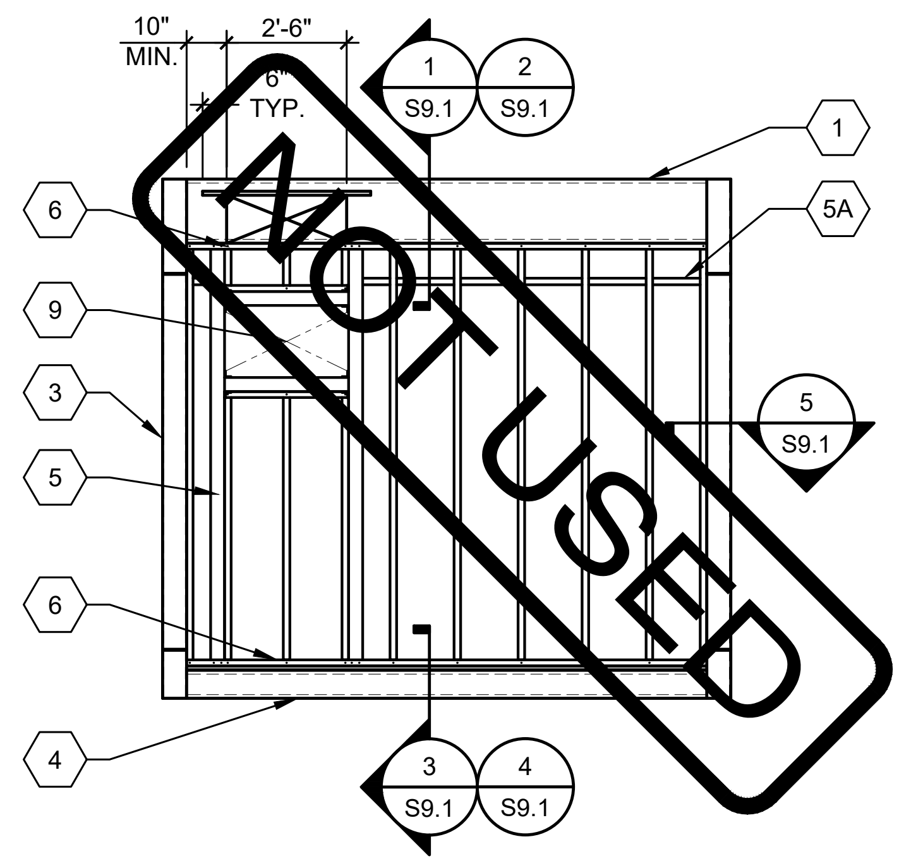
SCALE: 1/4"=1'-0" 1



NOTE:
FOR ADDITIONAL 2x4 ATTACHMENT AROUND OPENING-SEE DETAIL 6

TYPICAL END WALL FRAMING w/INDOOR HVAC UNIT

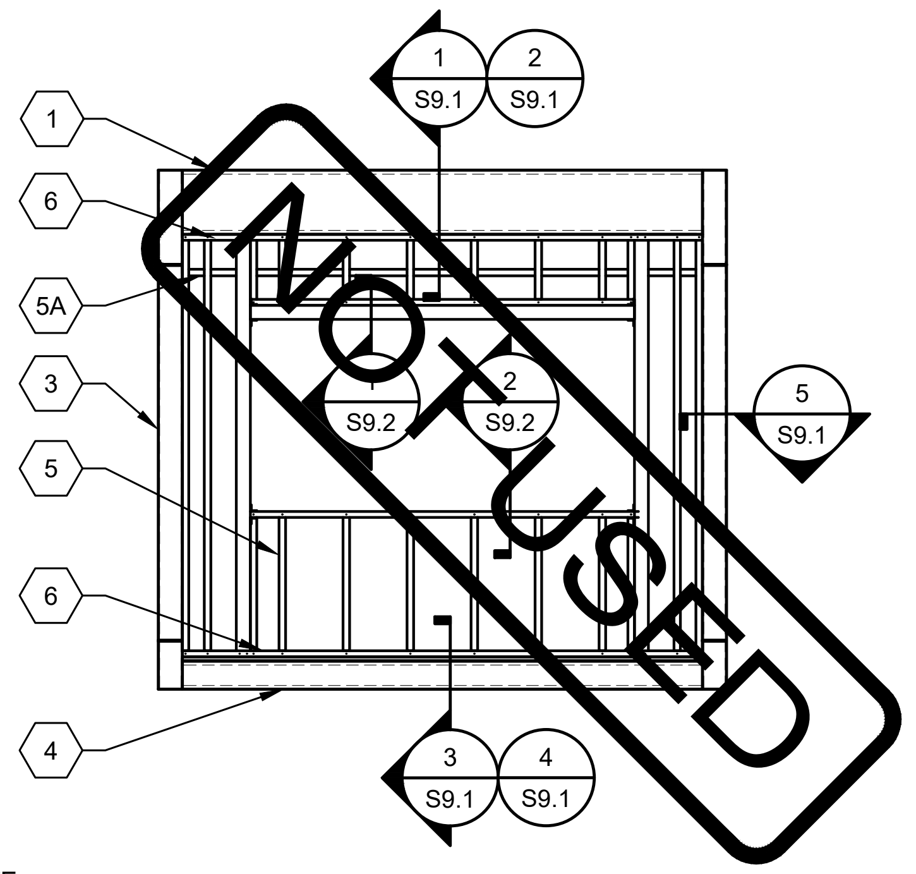
SCALE: 1/4"=1'-0" 2



NOTE:
FOR ADDITIONAL 2x4 ATTACHMENT AROUND OPENING-SEE DETAIL 6

TYPICAL END WALL FRAMING WINDOW w/WALL HUNG HVAC UNIT

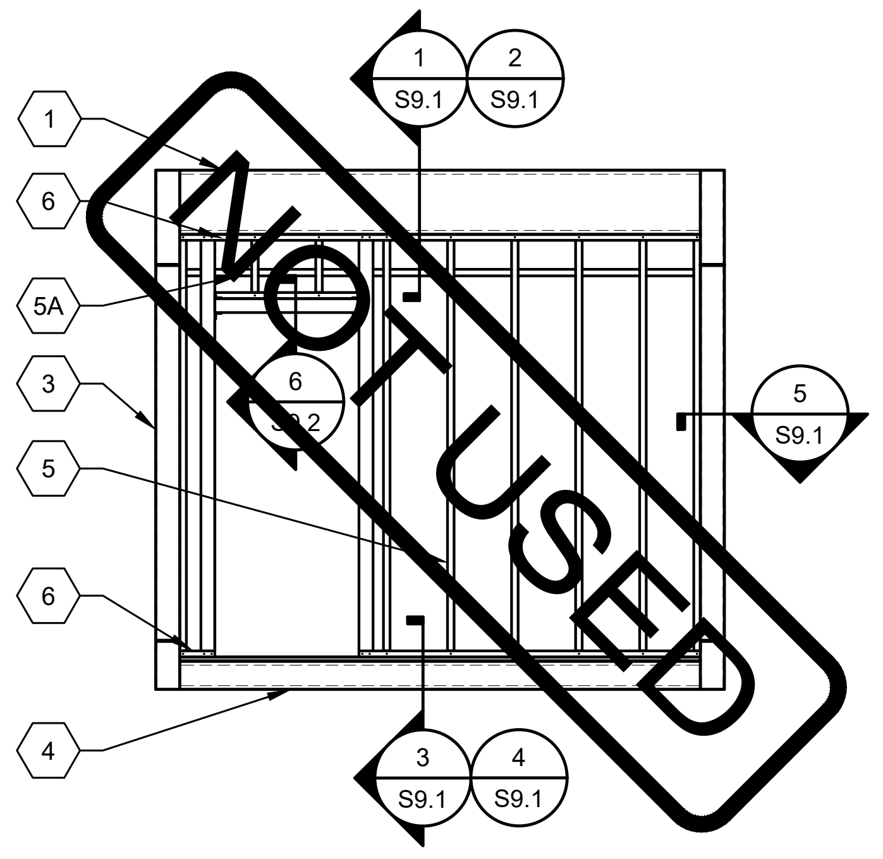
OPTIONAL SCALE: 1/4"=1'-0" 3



NOTE:
FOR ADDITIONAL 2x4 ATTACHMENT AROUND OPENING-SEE DETAIL 6

TYPICAL END WALL FRAMING WINDOW

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



NOTE:
FOR ADDITIONAL 2x4 ATTACHMENT AROUND OPENING-SEE DETAIL 6

TYPICAL END WALL FRAMING w/DOOR

SCALE: 1/4"=1'-0" 5

NOT USED

FINISH TYPE	FASTENER	SPACING	
		E.N.	F.N.
⅝" PLYWOOD SHEATHING 303 CONFORMING TO PS1-19, VERTICAL GROOVES @ 8" OC	#10x1" BUGLE HEAD STS	6" O.C.	12" O.C.
5⁄16" HARDIBOARD W/SYNTHETIC STUCCO. 5⁄16" HARDI-LAP SIDING	#10x1" BUGLE HEAD STS	6" O.C.	12" O.C.
½" PLYWOOD SHEATHING CONFORMING TO PS1-19, APA RATED, 5 PLY 32/16, OR ½" OSB PANELS EXPOSURE 1 WITH ⅞" STUCCO.	#10x1" BUGLE HEAD STS	6" O.C.	12" O.C.

1. ALL SCREWS IN EXTERIOR APPLICATIONS TO BE GALVANIZED.

EXTERIOR WALL FINISH/WALL STUD SCHEDULE

STUD/TRACK SCHEDULE

	TYP. WALL STUDS	TYP. TRACKS
~~EXTERIOR WALLS~~	~~600S162-33~~ ~~(ALT. 550S162-43)~~	~~600T150-43~~ ~~(ALT. 550T150-43)~~
INTERIOR WALLS	362S125-30 WITHOUT BOOKSHELVES OR CASEWORK	362T125-30 WITHOUT BOOKSHELVES OR CASEWORK
	~~600S162-33 WITH BOOKSHELVES OR CASEWORK~~	~~600T150-43 WITH BOOKSHELVES OR CASEWORK~~

NOTES

1. SEE 14/S9.2 FOR TYP. STUD AND TRACK PROPERTIES. STUD AND TRACK SIZES ARE MINIMUM. LARGER STUDS AND TRACKS MAY BE USED FOR ARCHITECTURAL PURPOSES.
2. TOP & BOTTOM TRACKS SHALL BE ~~43 MILS (18 GA.) MIN. @ EXTERIOR WALLS AND~~ 30 MILS (20 GA.) MIN. @ INTERIOR WALLS U.N.O.
3. ALL WALLS STUDS SPACED AT 16" O.C. MAX. U.N.O
~~4. AT WALL INTERSECTIONS, ATTACH END STUD TO CROSS WALLS (INCLUDING EXTERIOR WALLS) W/#10 S.M.S. @ 12" O.C. (ATTACH PER 5/9.1 @ HSS COLUMNS)~~
5. SEE 3/S9.2 FOR TYP. STUD TO TRACK ATTACHMENT.

STUD/TRACK SCHEDULE

NOT USED

EXTERIOR DOOR/WINDOW OPENINGS 6'-0" OR LESS

	HEADER	ALTERNATE HEADER	WINDOW SILL	ALTERNATE WINDOW SILL	KING STUDS	ALTERNATE KING STUD
DETAIL	6/S9.2	11/S9.2	7/S9.2	12/S9.2	6/S9.2	11/S9.2

EXTERIOR DOOR/WINDOW OPENINGS GREATER THAN 6'-0" UP TO 10'-0"

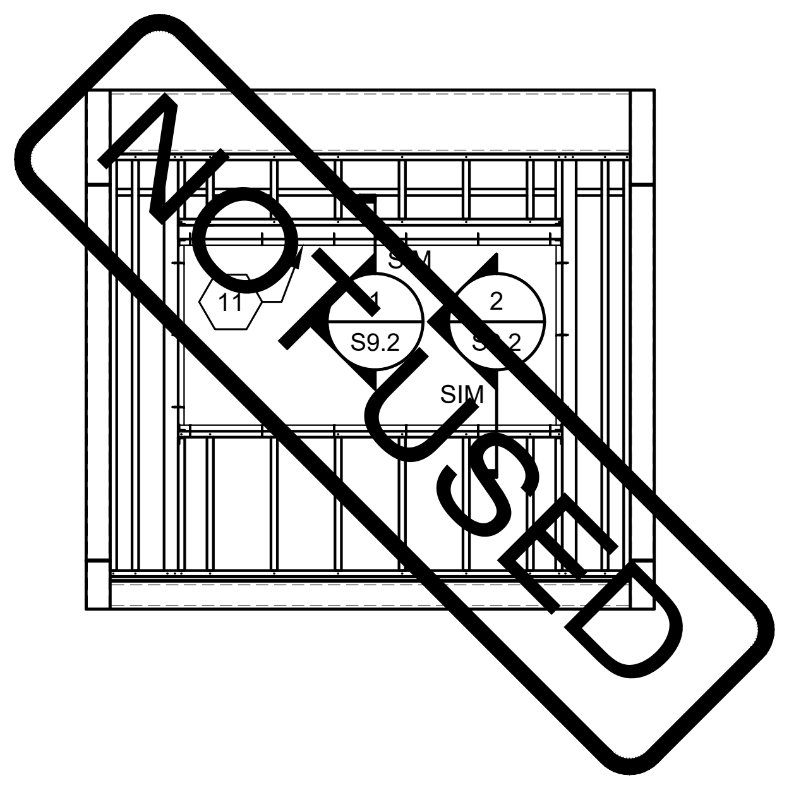
	HEADER	ALTERNATE HEADER	WINDOW SILL	ALTERNATE WINDOW SILL	KING STUDS	ALTERNATE KING STUD
DETAIL	1/S9.2	11/S9.2	2/S9.2	12/S9.2	1/S9.2	11/S9.2

INTERIOR DOOR/WINDOW OPENINGS

	HEADER (6'-0" MAX OPENING)	ALTERNATE HEADER (10'-0" MAX OPENING)	WINDOW SILL (6'-0" MAX OPENING)	ALTERNATE WINDOW SILL (10'-0" MAX OPENING)	KING STUDS (6'-0" MAX OPENING)	ALTERNATE KING STUD (10'-0" MAX OPENING)
DETAIL	15/S9.2	11/S9.2	16/S9.2	12/S9.2	15/S9.2	11/S9.2

INTERIOR WALL: 362S125-30 @ 16" O.C. w/362T125-30 TRACKS (TYP.)

OPENING SCHEDULES



TYPICAL 2x4 ATTACHMENT @ OPENINGS

SCALE: 1/4"=1'-0" 6

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APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

.
.
.

~~APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122042 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/15/2024~~

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MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

MANNY D. FRISCH
No. S3380
RST#22214

02-08-24

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2
3
4

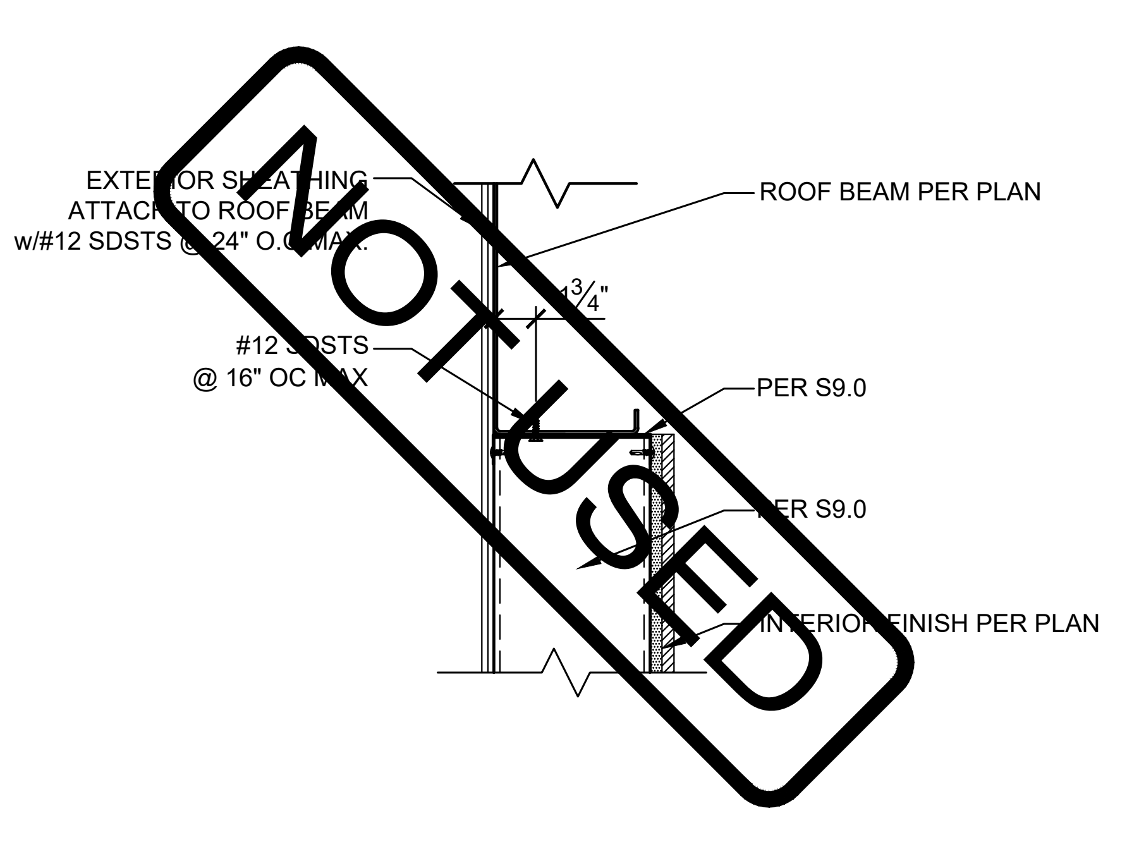
DRAWN BY:
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-XX

SHEET TITLE:

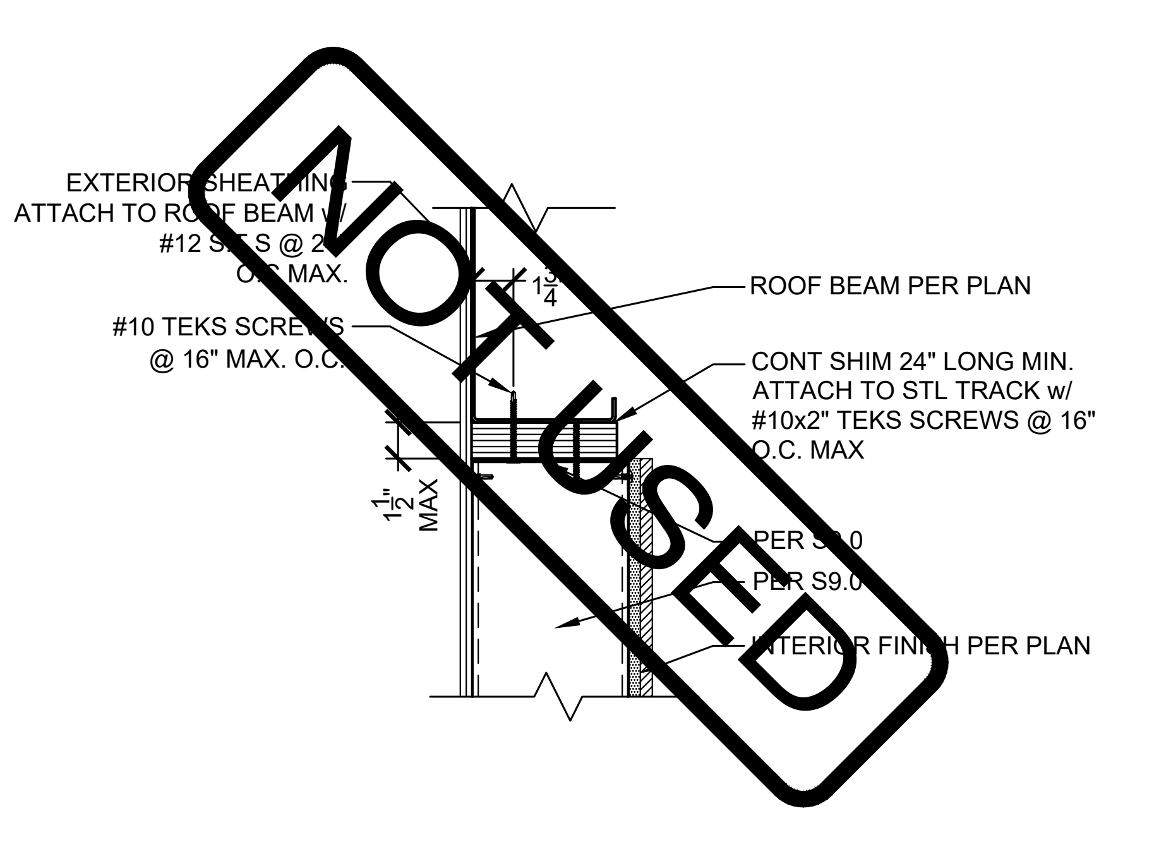
WALL FRAMING ELEVATIONS & SCHEDULES - METAL STUD OPTION

SHEET NUMBER:

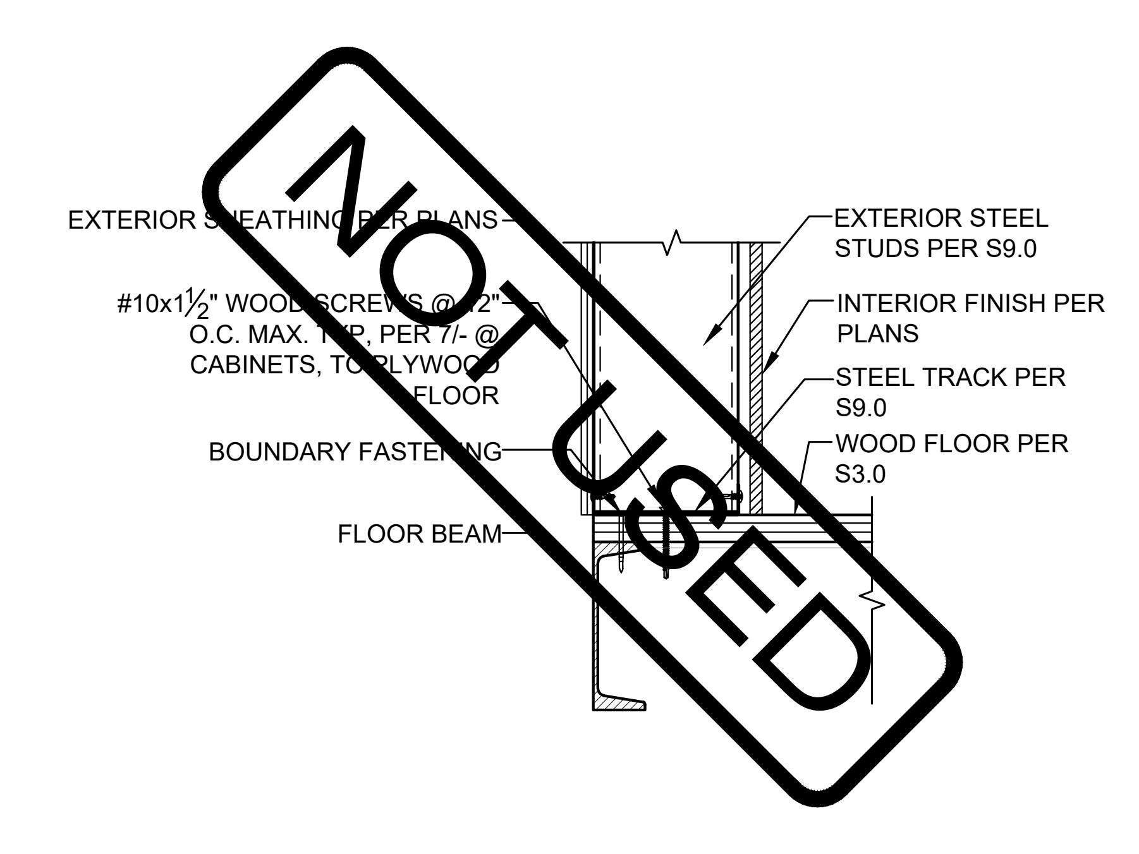
S9.0



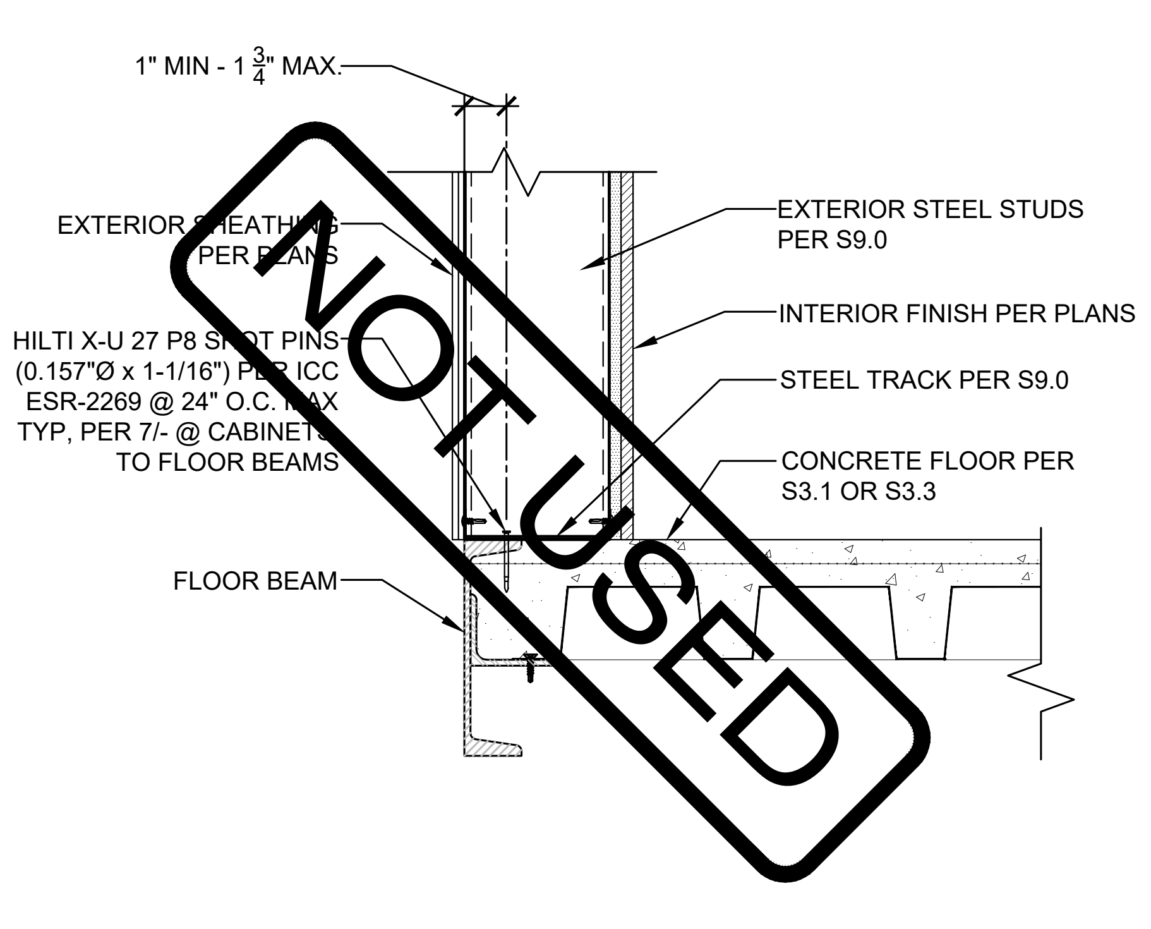
WALL TO ROOF BEAM DETAIL
SCALE: 1 1/2"=1'-0"
1


NOT USED
EXTERIOR SHEATHING ATTACH TO ROOF BEAM w/ #12 SDSTS @ 24" O.C. MAX.
#10 TEKS SCREWS @ 16" MAX. O.C.
1¾
1½" MAX
ROOF BEAM PER PLAN
CONT SHIM 24" LONG MIN. ATTACH TO STL TRACK w/ #10x2" TEKS SCREWS @ 16" O.C. MAX
PER S9.0
PER S9.0
INTERIOR FINISH PER PLAN

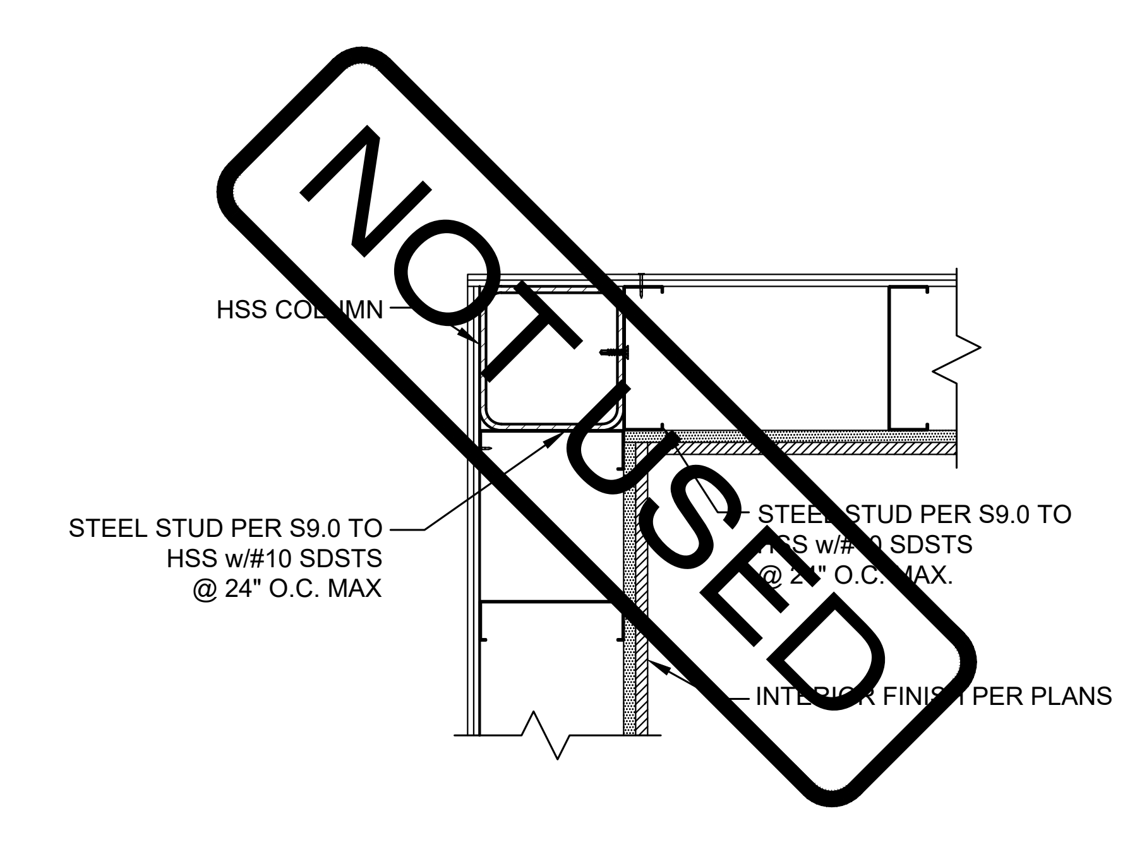
WALL TO ROOF BEAM DETAIL
SHIM CONDITION
SCALE: 1 1/2"=1'-0"
2


NOT USED
EXTERIOR SHEATHING PER PLANS
#10x1½" WOOD SCREWS @ 12" O.C. MAX. TYP. PER 7/- @ CABINETS, TO PLYWOOD FLOOR
BOUNDARY FASTENING
FLOOR BEAM
EXTERIOR STEEL STUDS PER S9.0
INTERIOR FINISH PER PLANS
STEEL TRACK PER S9.0
WOOD FLOOR PER S3.0

WALL TO FLOOR ATTACHMENT TYP. DETAIL
PLYWOOD FLOOR
SCALE: 1 1/2"=1'-0"
3

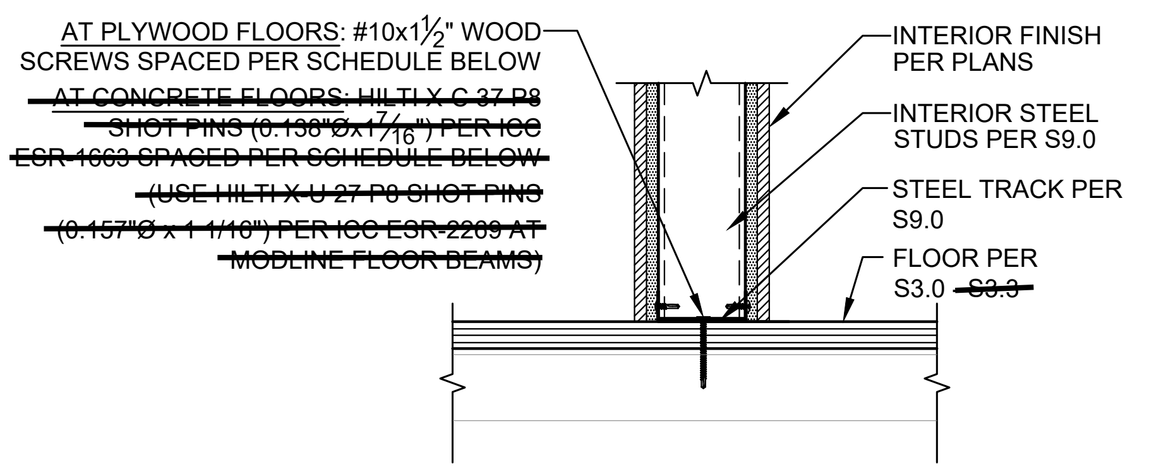

NOT USED
1" MIN - 1¾" MAX.
EXTERIOR SHEATHING PER PLANS
HILTI X-U 27 P8 SHOT PINS (0.157"Ø x 1-1/16") PER ICC ESR-2269 @ 24" O.C. MAX TYP, PER 7/- @ CABINETS TO FLOOR BEAMS
FLOOR BEAM
EXTERIOR STEEL STUDS PER S9.0
INTERIOR FINISH PER PLANS
STEEL TRACK PER S9.0
CONCRETE FLOOR PER S3.1 OR S3.3

WALL TO FLOOR ATTACHMENT TYP. DETAIL
CONCRETE FLOOR
SCALE: 1 1/2"=1'-0"
4


NOT USED
HSS COLUMN
STEEL STUD PER S9.0 TO HSS w/#10 SDSTS @ 24" O.C. MAX
STEEL STUD PER S9.0 TO HSS w/#10 SDSTS @ 24" O.C. MAX.
INTERIOR FINISH PER PLANS

WALL TO COLUMN TYP. DETAIL @ CORNERS
CONCRETE FLOOR
SCALE: 1 1/2"=1'-0"
5

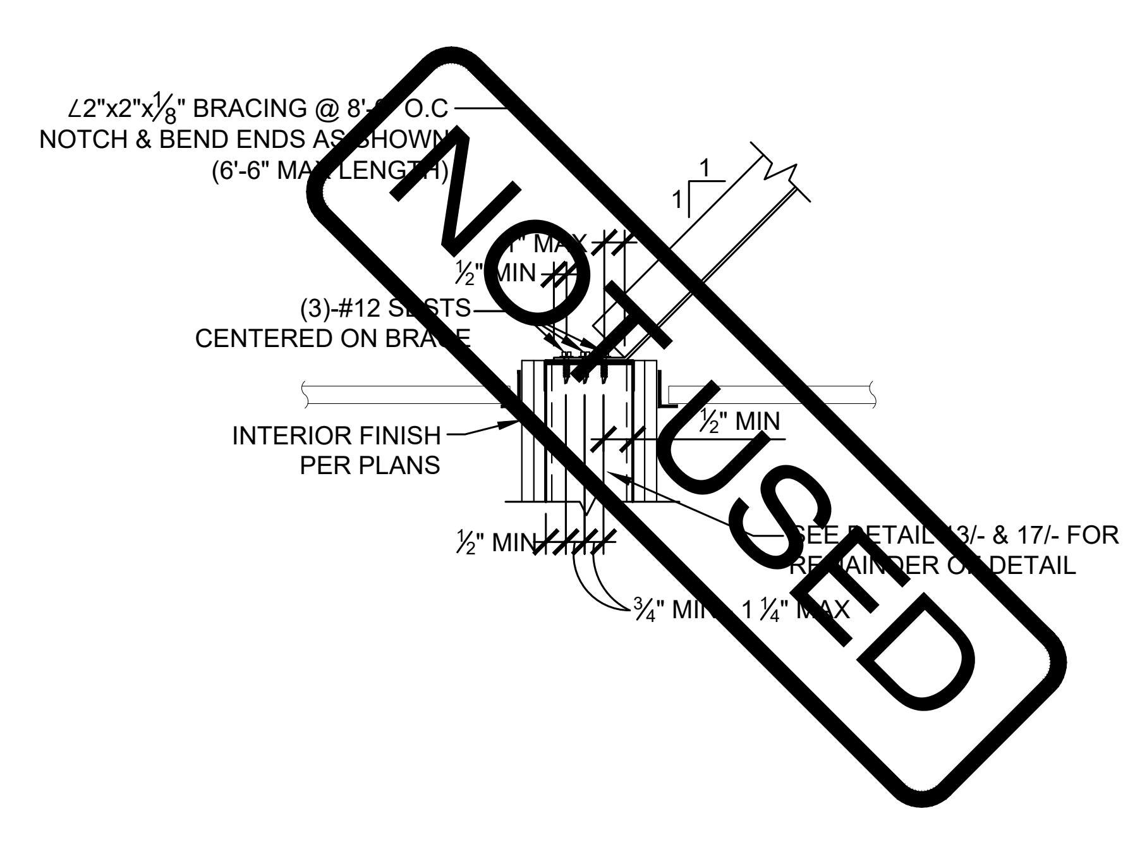
NOT USED
6


AT PLYWOOD FLOORS: #10x1½" WOOD SCREWS SPACED PER SCHEDULE BELOW
~~AT CONCRETE FLOORS: HILTI X-C 37 P8 SHOT PINS (0.138"Øx1⁷⁄₁₆") PER ICC ESR-1663 SPACED PER SCHEDULE BELOW (USE HILTI X-U 27 P8 SHOT PINS (0.157"Ø x 1-1/16") PER ICC ESR-2269 AT MODLINE FLOOR BEAMS)~~
INTERIOR FINISH PER PLANS
INTERIOR STEEL STUDS PER S9.0
STEEL TRACK PER S9.0
FLOOR PER S3.0 ~~S3.3~~

SILL PLATE FASTENER SPACING SCHEDULE

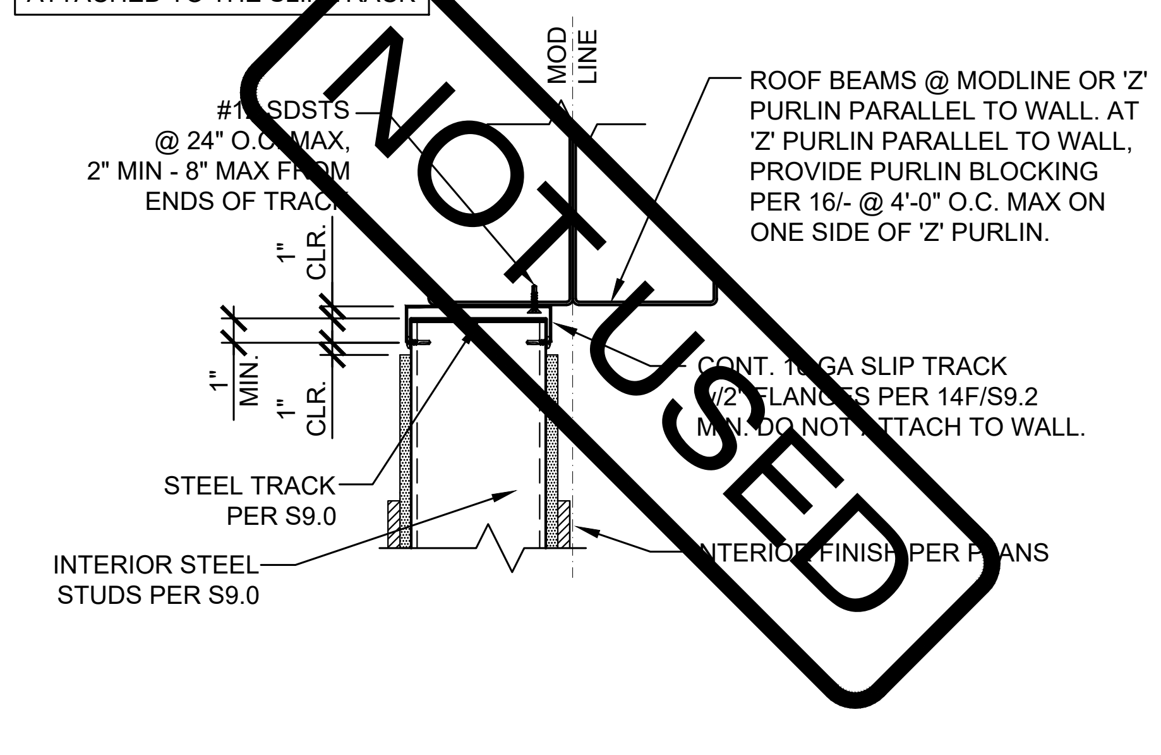
	CONCRETE FLOOR	WOOD FLOOR
NO CABINETS	24" O.C.	24" O.C.
~~CABINETS ON ONE SIDE OF WALL~~	~~10" O.C.~~	~~8" O.C.~~
~~CABINETS ON BOTH SIDES OF WALL~~	~~5" O.C.~~	~~4" O.C.~~

INTERIOR WALL CONNECTION @ FLOOR
WALL PARALLEL TO FLOOR JOIST
SCALE: 1 1/2"=1'-0"
7


NOT USED
∠2"x2"x⅛" BRACING @ 8'-0" O.C NOTCH & BEND ENDS AS SHOWN (6'-6" MAX LENGTH)
1
1
1" MAX
½" MIN
(3)-#12 SDSTS CENTERED ON BRACE
½" MIN
INTERIOR FINISH PER PLANS
½" MIN
SEE DETAIL 13/- & 17/- FOR REMAINDER OF DETAIL
¾" MIN - 1¼" MAX

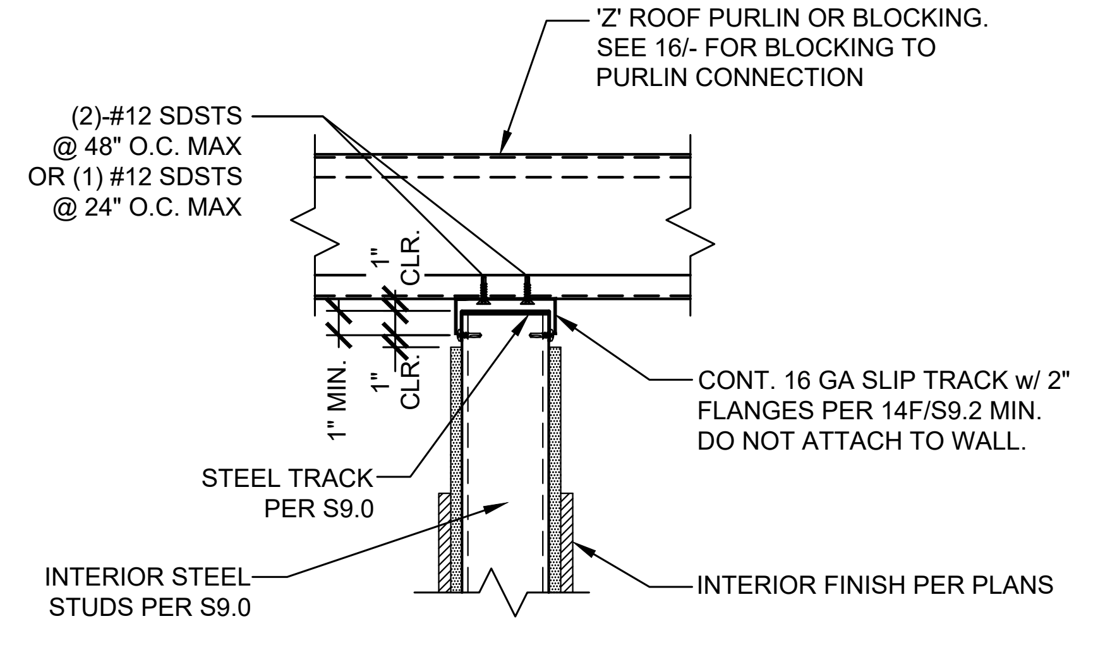
TYP. INTERIOR WALL BRACING
SCALE: 1 1/2"=1'-0"
8

NOTE:
GYPSUM BOARD SHALL NOT BE ATTACHED TO THE SLIP TRACK


NOT USED
MOD LINE
#12 SDSTS @ 24" O.C. MAX, 2" MIN - 8" MAX FROM ENDS OF TRACK
1" CLR.
1" MIN.
1" CLR.
ROOF BEAMS @ MODLINE OR 'Z' PURLIN PARALLEL TO WALL. AT 'Z' PURLIN PARALLEL TO WALL, PROVIDE PURLIN BLOCKING PER 16/- @ 4'-0" O.C. MAX ON ONE SIDE OF 'Z' PURLIN.
CONT. 16 GA SLIP TRACK w/2" FLANGES PER 14F/S9.2 MIN. DO NOT ATTACH TO WALL.
STEEL TRACK PER S9.0
INTERIOR STEEL STUDS PER S9.0
INTERIOR FINISH PER PLANS

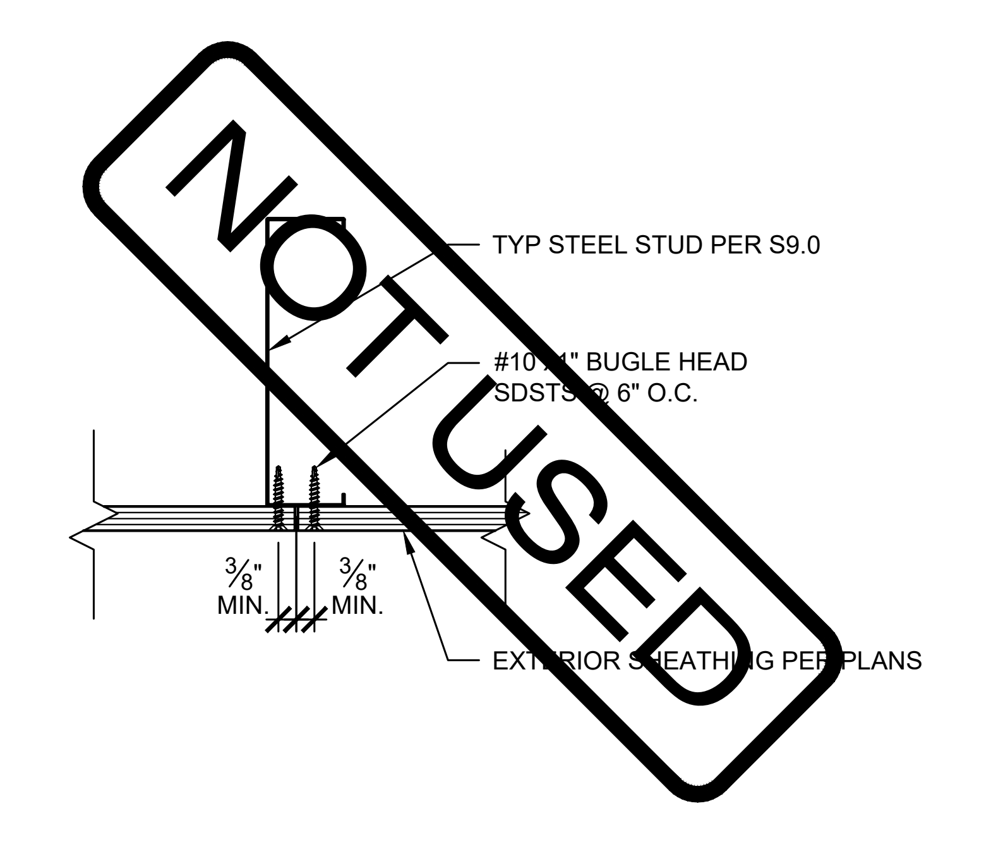
INTERIOR WALL ATTACHMENT
TO ROOF BEAMS AT MODLINE OR 'Z' PURLIN PARALLEL TO WALL
SCALE: 1 1/2"=1'-0"
9

NOTE:
GYPSUM BOARD SHALL NOT BE ATTACHED TO THE SLIP TRACK


'Z' ROOF PURLIN OR BLOCKING. SEE 16/- FOR BLOCKING TO PURLIN CONNECTION
(2)-#12 SDSTS @ 48" O.C. MAX OR (1) #12 SDSTS @ 24" O.C. MAX
1" CLR.
1" MIN.
1" CLR.
CONT. 16 GA SLIP TRACK w/ 2" FLANGES PER 14F/S9.2 MIN. DO NOT ATTACH TO WALL.
STEEL TRACK PER S9.0
INTERIOR STEEL STUDS PER S9.0
INTERIOR FINISH PER PLANS

NOTE: WHERE INTERIOR WALL OCCURS UNDER ROOF BEAM OR 'Z' PURLIN PARALLEL TO WALL, SEE DETAIL 9/-

INTERIOR WALL ATTACHMENT
TO PURLINS
SCALE: 1 1/2"=1'-0"
10

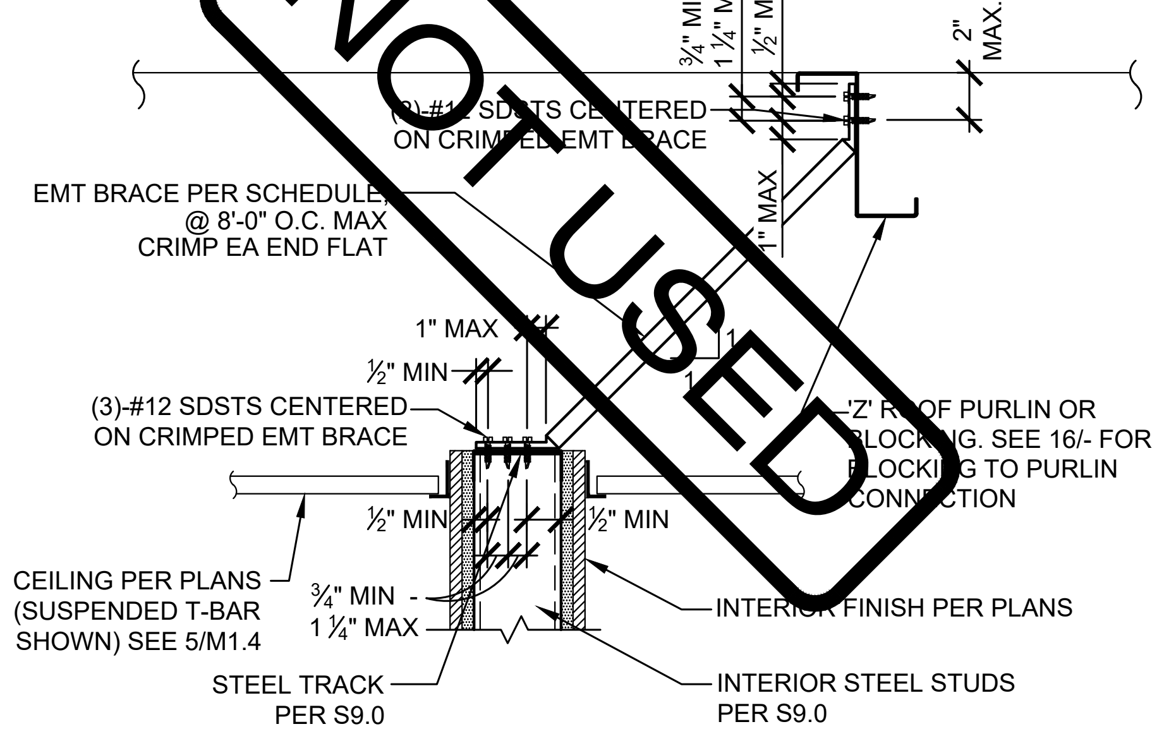

NOT USED
TYP STEEL STUD PER S9.0
#10 x 1" BUGLE HEAD SDSTS @ 6" O.C.
⅜" MIN.
⅜" MIN.
EXTERIOR SHEATHING PER PLANS

PLYWOOD JOINT
SCALE: 1 1/2"=1'-0"
11

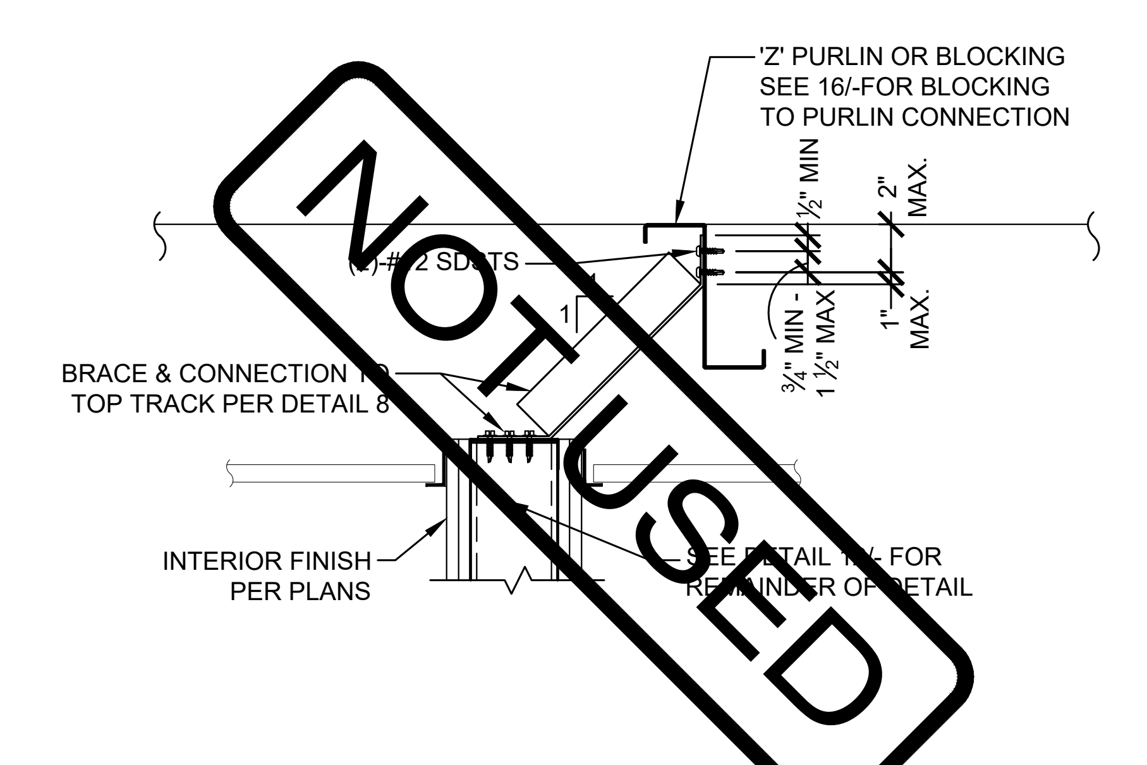
EMT BRACE SCHEDULE

MAX LENGTH	EMT SIZE
5'-2"	¾"Ø
6'-6"	1"Ø

NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP TRACK BRACING TO ROOF FRAMING


NOT USED
¾" MIN - 1¼" MAX
½" MIN
2" MAX.
1" MAX
(3)-#12 SDSTS CENTERED ON CRIMPED EMT BRACE
EMT BRACE PER SCHEDULE, @ 8'-0" O.C. MAX CRIMP EA END FLAT
1" MAX
½" MIN
(3)-#12 SDSTS CENTERED ON CRIMPED EMT BRACE
1
1
'Z' ROOF PURLIN OR BLOCKING. SEE 16/- FOR BLOCKING TO PURLIN CONNECTION
½" MIN
½" MIN
CEILING PER PLANS (SUSPENDED T-BAR SHOWN) SEE 5/M1.4
¾" MIN - 1¼" MAX
INTERIOR FINISH PER PLANS
STEEL TRACK PER S9.0
INTERIOR STEEL STUDS PER S9.0

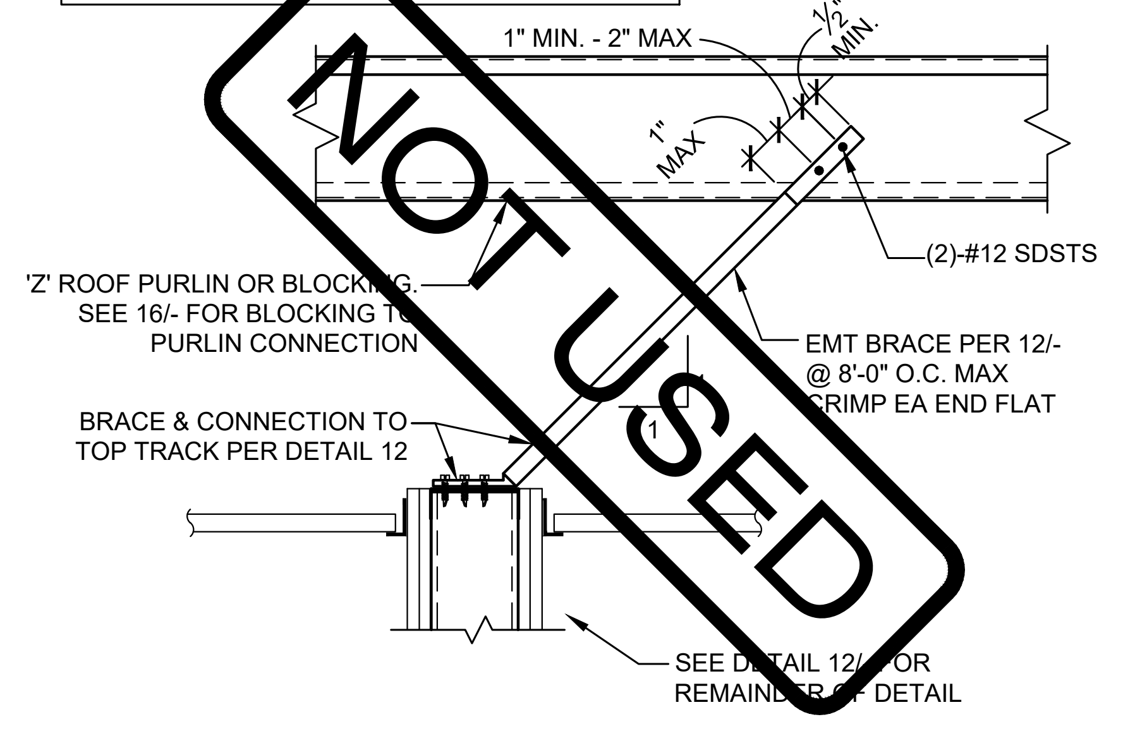
INTERIOR NON-BEARING WALL BRACING
PARALLEL TO PURLINS
SCALE: 1 1/2"=1'-0"
12


NOT USED
'Z' PURLIN OR BLOCKING SEE 16/-FOR BLOCKING TO PURLIN CONNECTION
(2)-#12 SDSTS
½" MIN
2" MAX.
¾" MIN - 1½" MAX
1" MAX.
1
BRACE & CONNECTION TO TOP TRACK PER DETAIL 8
INTERIOR FINISH PER PLANS
SEE DETAIL 12/- FOR REMAINDER OF DETAIL

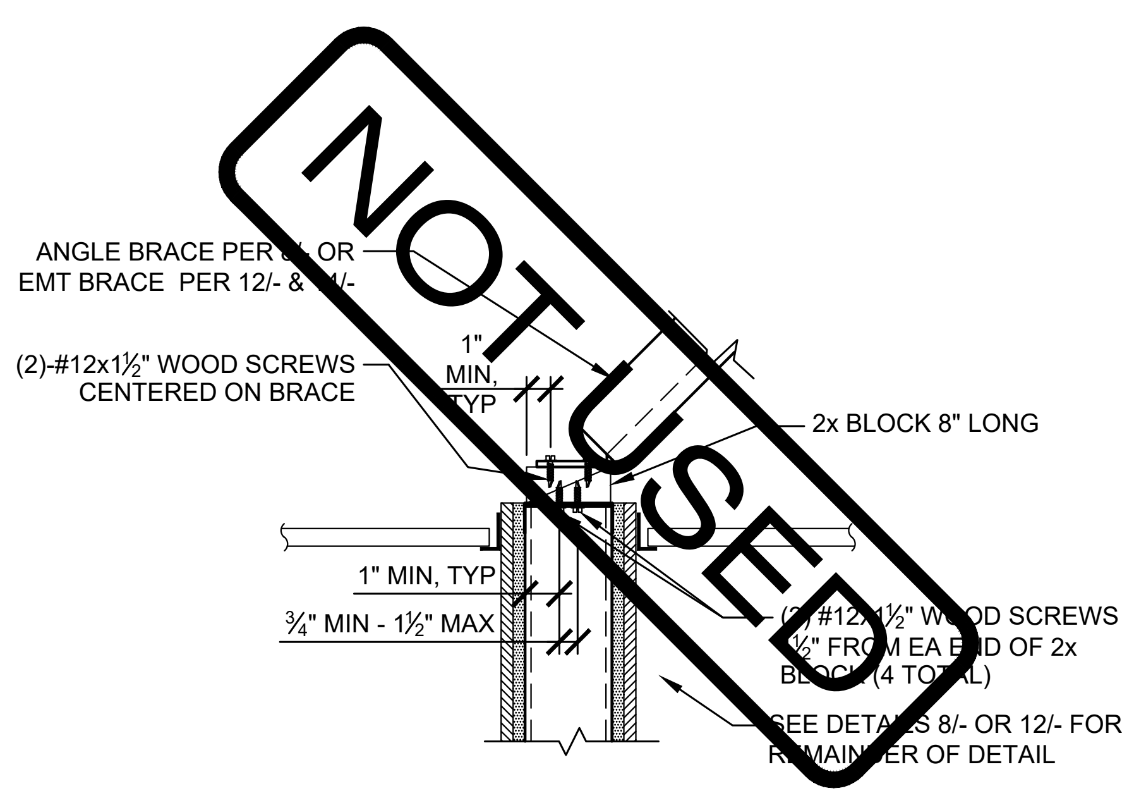
NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

TYP. INTERIOR WALL BRACING
BRACE PERPENDICULAR TO PURLINS OR BLOCKING
SCALE: 1 1/2"=1'-0"
13

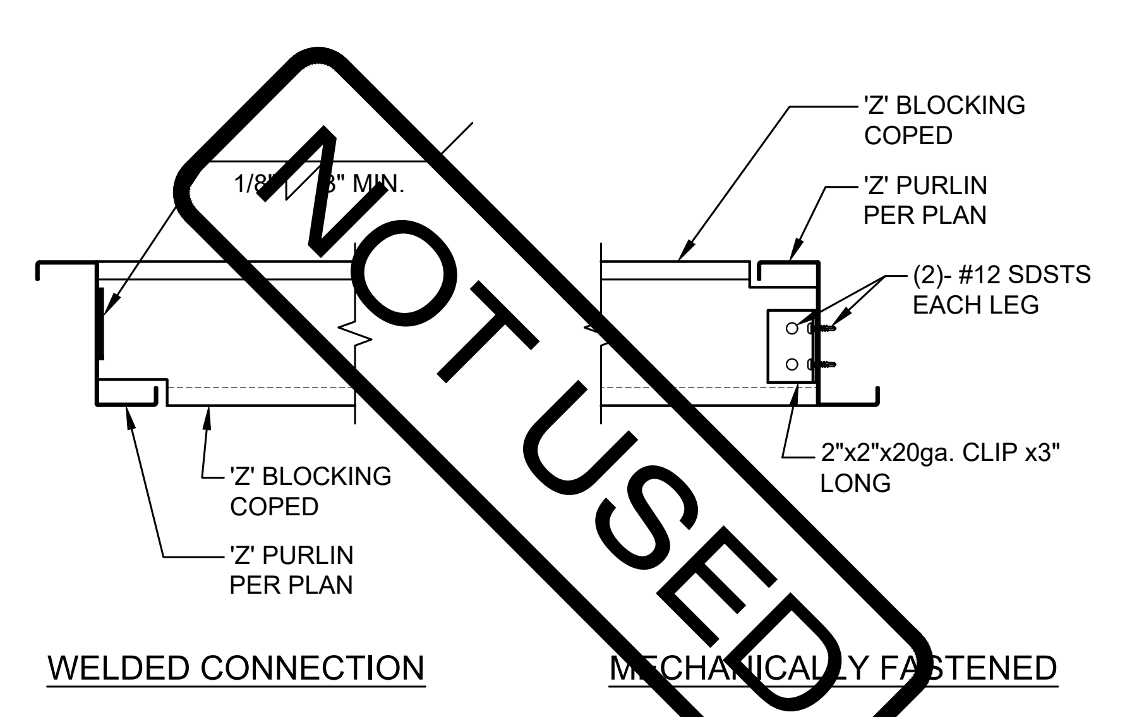
NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP TRACK BRACING TO ROOF FRAMING


NOT USED
1" MIN. - 2" MAX
½" MIN.
1" MAX
(2)-#12 SDSTS
'Z' ROOF PURLIN OR BLOCKING. SEE 16/- FOR BLOCKING TO PURLIN CONNECTION
EMT BRACE PER 12/- @ 8'-0" O.C. MAX CRIMP EA END FLAT
BRACE & CONNECTION TO TOP TRACK PER DETAIL 12
1
SEE DETAIL 12/- FOR REMAINDER OF DETAIL

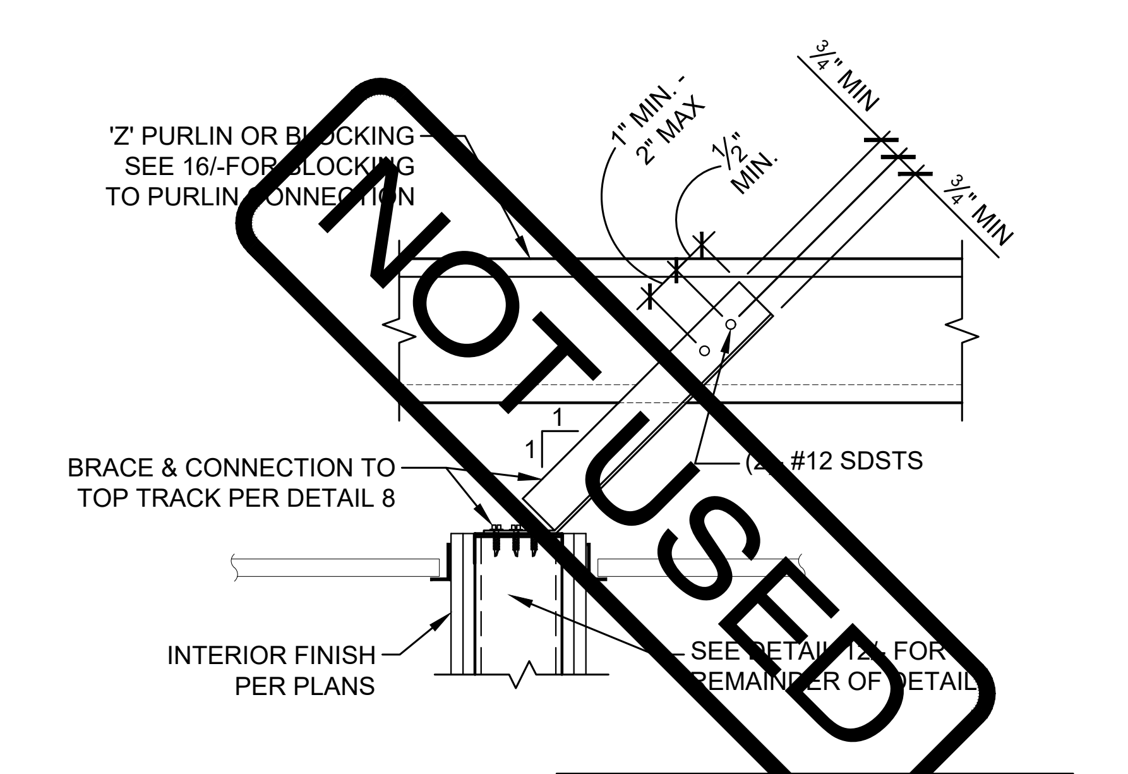
INTERIOR NON-BEARING WALL BRACING
PERPENDICULAR TO PURLINS - BLOCKING CONDITION
SCALE: 1 1/2"=1'-0"
14


NOT USED
ANGLE BRACE PER 8/- OR EMT BRACE PER 12/- & 14/-
(2)-#12x1½" WOOD SCREWS CENTERED ON BRACE
1" MIN, TYP
2x BLOCK 8" LONG
1" MIN, TYP
¾" MIN - 1½" MAX
(2) #12x1½" WOOD SCREWS ½" FROM EA END OF 2x BLOCK (4 TOTAL)
SEE DETAILS 8/- OR 12/- FOR REMAINDER OF DETAIL

ALT. BLOCKING @ INT. WALL BRACING
SCALE: 1 1/2"=1'-0"
15

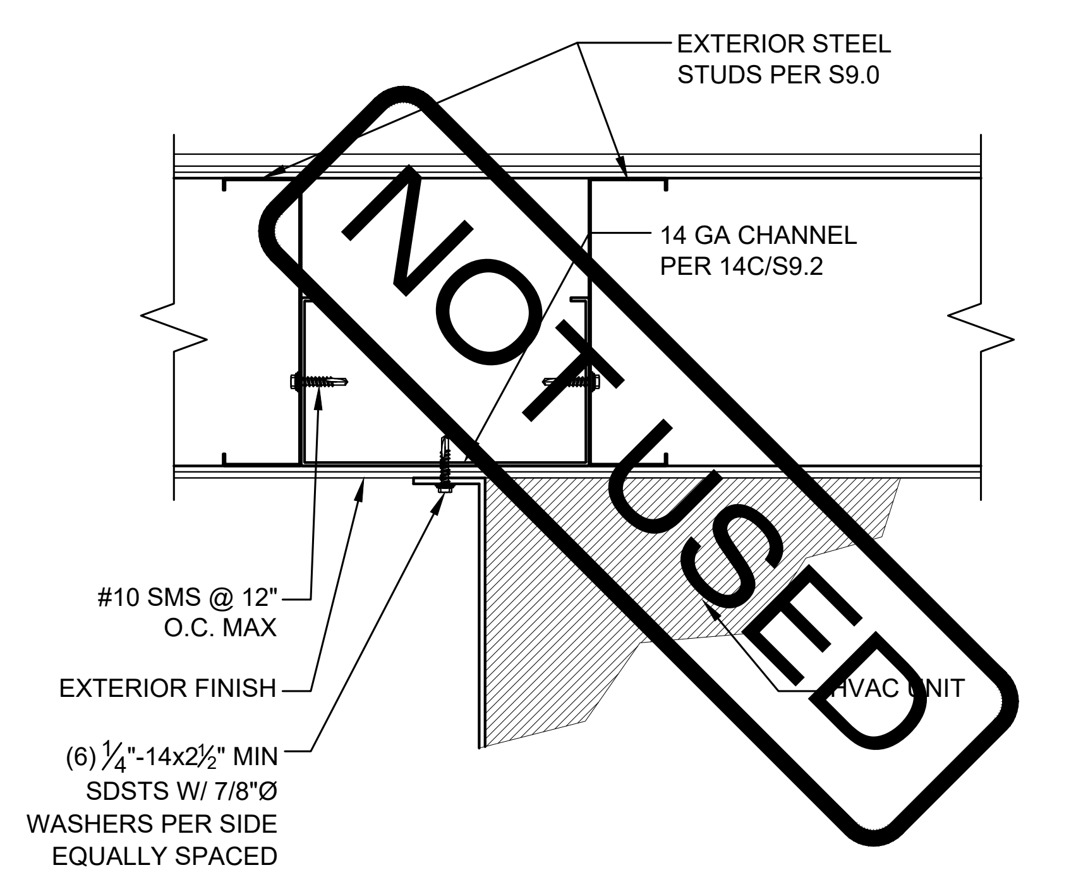


PURLIN BLOCKING CONNECTIONS
SCALE: 1 1/2"=1'-0"
16

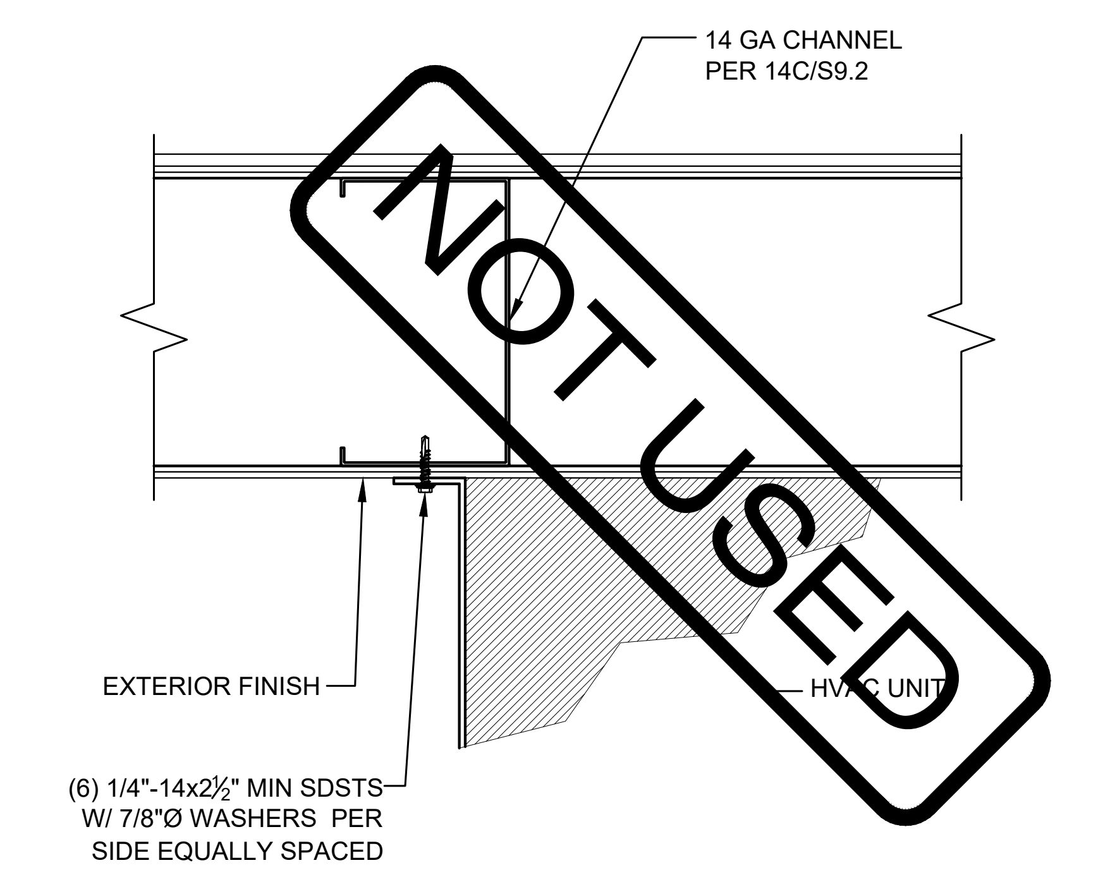

NOT USED
¾" MIN
1" MIN. - 2" MAX
½" MIN.
¾" MIN
'Z' PURLIN OR BLOCKING SEE 16/-FOR BLOCKING TO PURLIN CONNECTION
1
1
(2)-#12 SDSTS
BRACE & CONNECTION TO TOP TRACK PER DETAIL 8
INTERIOR FINISH PER PLANS
SEE DETAIL 12/- FOR REMAINDER OF DETAIL

NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

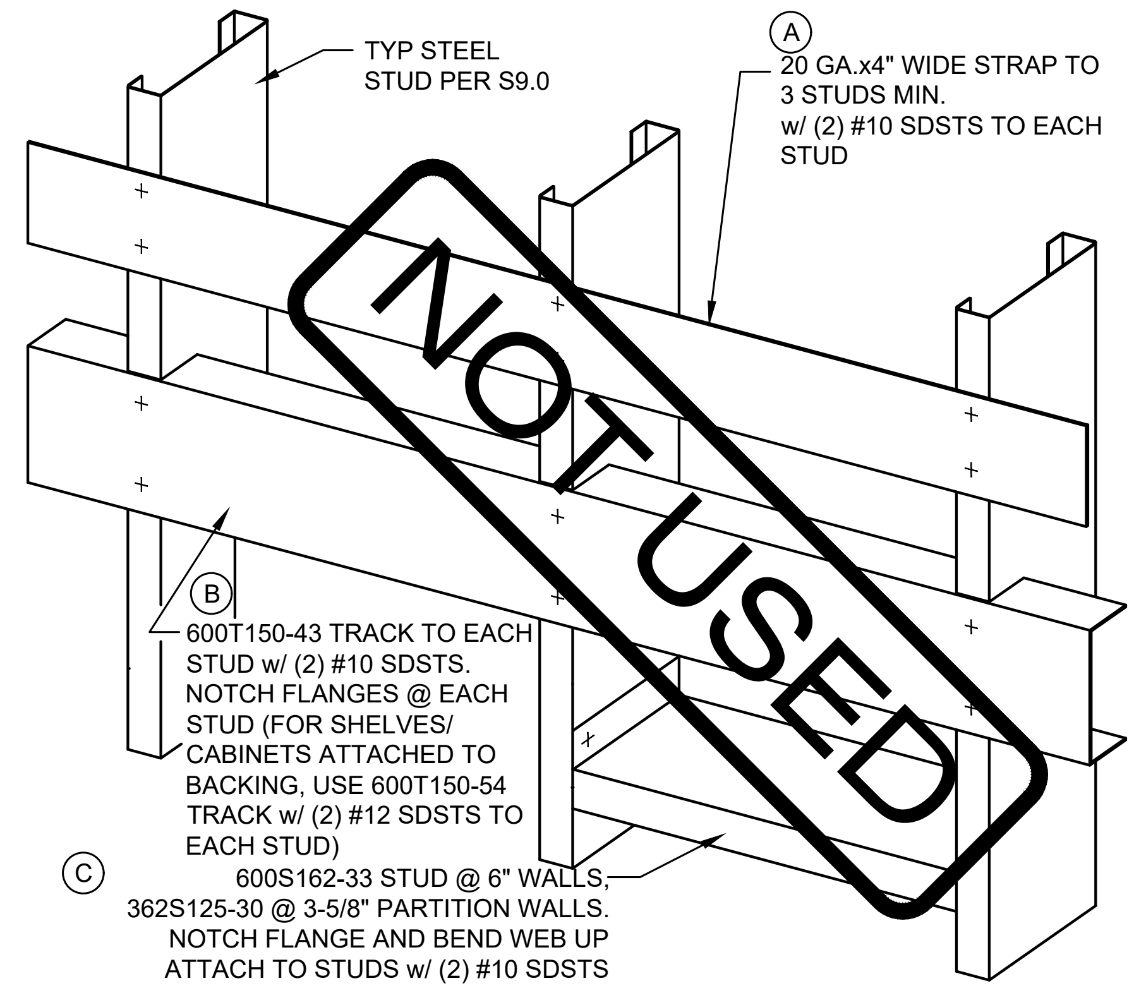
TYP. INTERIOR WALL BRACING
BRACE PARALLEL TO PURLINS OR BLOCKING
SCALE: 1 1/2"=1'-0"
17


NOT USED
EXTERIOR STEEL STUDS PER S9.0
14 GA CHANNEL PER 14C/S9.2
#10 SMS @ 12" O.C. MAX
EXTERIOR FINISH
(6) ¼"-14x2½" MIN SDSTS W/ 7/8"Ø WASHERS PER SIDE EQUALLY SPACED
HVAC UNIT

WALL MOUNT HVAC DETAIL
SCALE: 1 1/2"=1'-0"
18


NOT USED
14 GA CHANNEL PER 14C/S9.2
EXTERIOR FINISH
(6) 1/4"-14x2½" MIN SDSTS W/ 7/8"Ø WASHERS PER SIDE EQUALLY SPACED
HVAC UNIT

WALL MOUNT HVAC DETAIL
ALTERNATE
SCALE: 1 1/2"=1'-0"
19


NOT USED
TYP STEEL STUD PER S9.0
A
20 GA.x4" WIDE STRAP TO 3 STUDS MIN. w/ (2) #10 SDSTS TO EACH STUD
B
600T150-43 TRACK TO EACH STUD w/ (2) #10 SDSTS. NOTCH FLANGES @ EACH STUD (FOR SHELVES/ CABINETS ATTACHED TO BACKING, USE 600T150-54 TRACK w/ (2) #12 SDSTS TO EACH STUD)
C
600S162-33 STUD @ 6" WALLS, 362S125-30 @ 3-5/8" PARTITION WALLS. NOTCH FLANGE AND BEND WEB UP ATTACH TO STUDS w/ (2) #10 SDSTS

WALL BLOCKING DETAIL
SCALE: 1 1/2"=1'-0"
20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

American Modular Systems

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

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

FORM

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDAL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

MANNY D. FRISCH
No. S3380
RST#22214

02-08-24
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

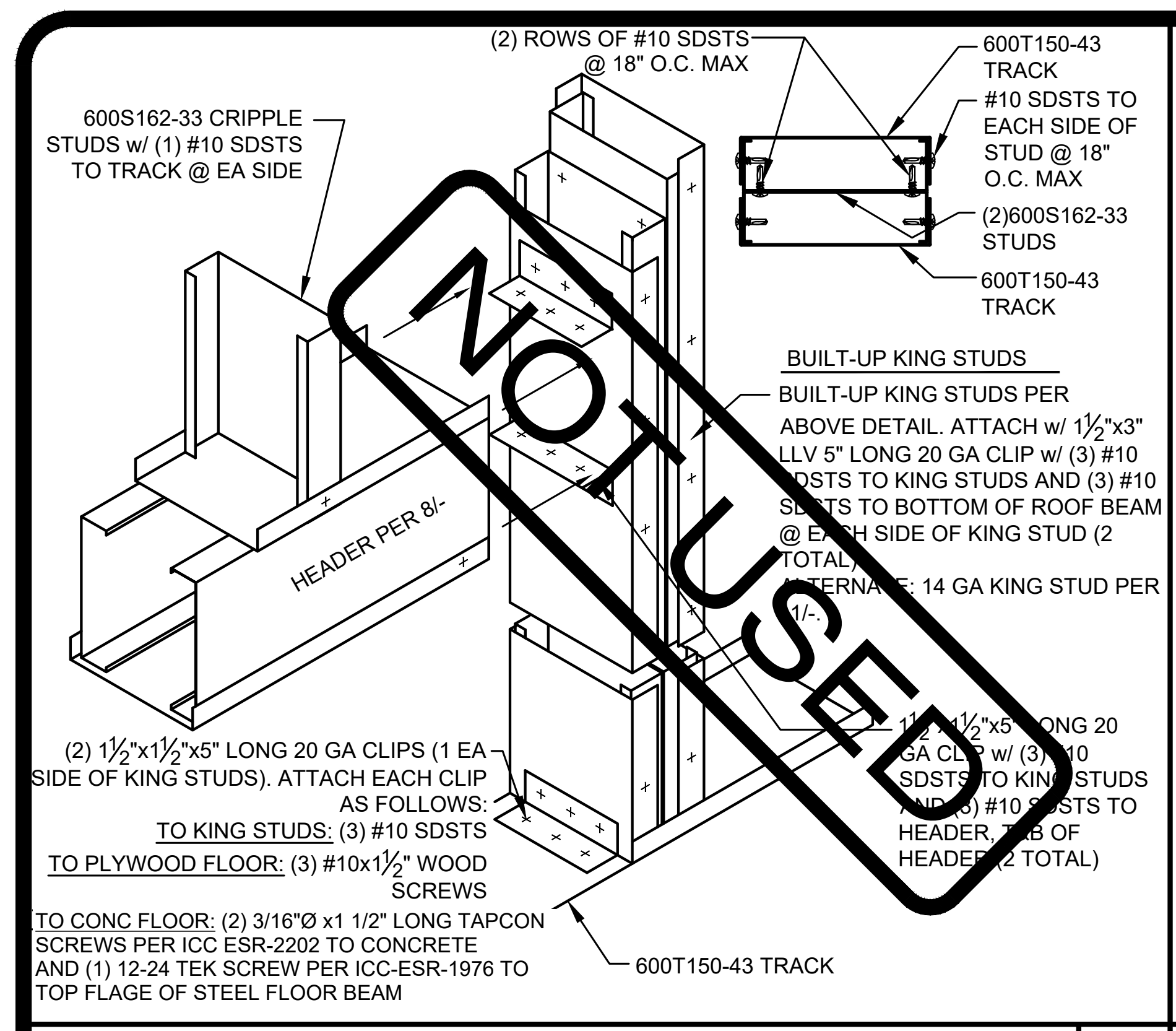
REVISIONS

1	
2	
3	
4	

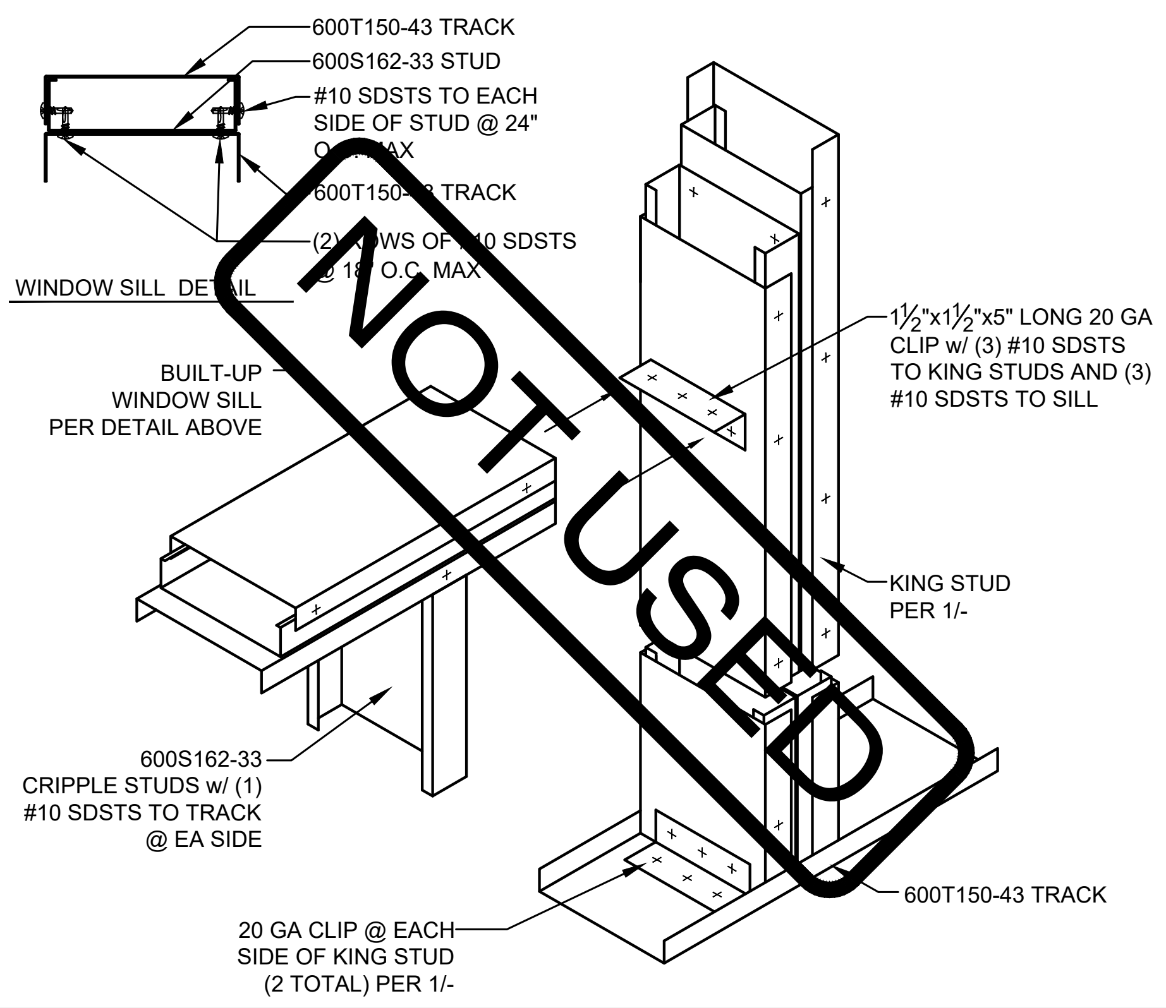
DRAWN BY:	
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-XX

SHEET TITLE:
WALL FRAMING DETAILS - METAL STUD OPTION

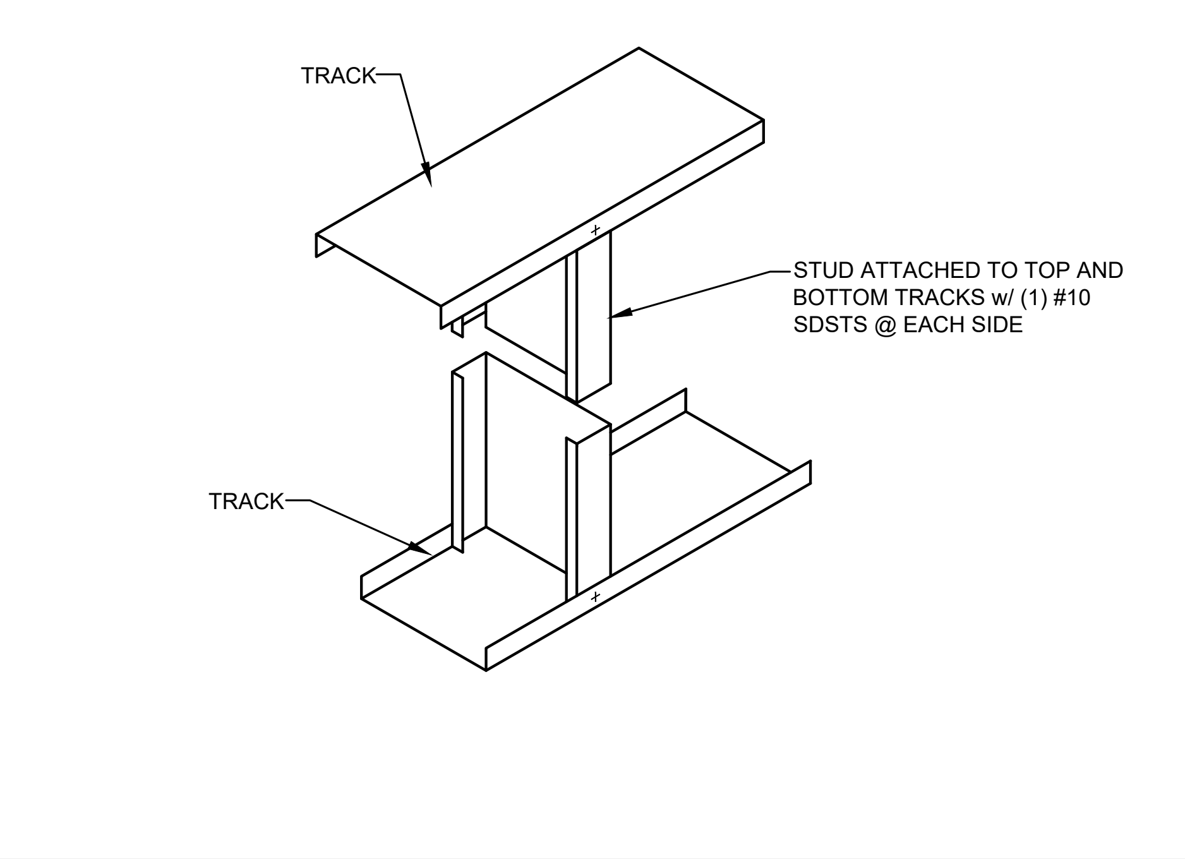
SHEET NUMBER:
S9.1


(2) ROWS OF #10 SDSTS @ 18" O.C. MAX
600T150-43 TRACK
#10 SDSTS TO EACH SIDE OF STUD @ 18" O.C. MAX
(2)600S162-33 STUDS
600T150-43 TRACK
600S162-33 CRIPPLE STUDS w/ (1) #10 SDSTS TO TRACK @ EA SIDE
BUILT-UP KING STUDS
BUILT-UP KING STUDS PER ABOVE DETAIL. ATTACH w/ 1½"x3" LLV 5" LONG 20 GA CLIP w/ (3) #10 SDSTS TO KING STUDS AND (3) #10 SDSTS TO BOTTOM OF ROOF BEAM @ EACH SIDE OF KING STUD (2 TOTAL)
ALTERNATE: 14 GA KING STUD PER 1/-.
HEADER PER 8/-
1½"x1½"x5" LONG 20 GA CLIP w/ (3) #10 SDSTS TO KING STUDS AND (3) #10 SDSTS TO HEADER, T&B OF HEADER (2 TOTAL)
(2) 1½"x1½"x5" LONG 20 GA CLIPS (1 EA SIDE OF KING STUDS). ATTACH EACH CLIP AS FOLLOWS:
TO KING STUDS: (3) #10 SDSTS
TO PLYWOOD FLOOR: (3) #10x1½" WOOD SCREWS
TO CONC FLOOR: (2) 3/16"Ø x1 1/2" LONG TAPCON SCREWS PER ICC ESR-2202 TO CONCRETE AND (1) 12-24 TEK SCREW PER ICC-ESR-1976 TO TOP FLAGE OF STEEL FLOOR BEAM
600T150-43 TRACK
NOT USED

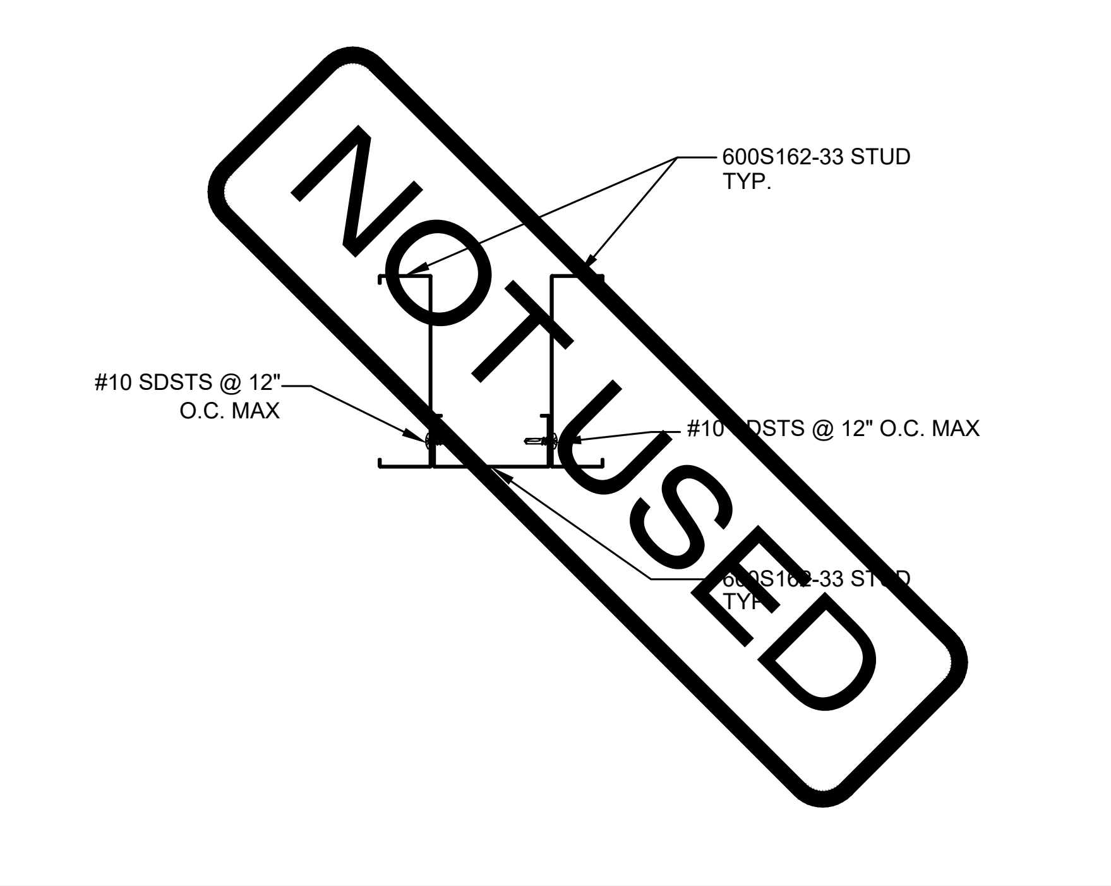
DOOR/WINDOW HEADER DETAIL
GREATER THAN 6'-0" - 10' - 0" MAX OPENINGS (EXTERIOR WALLS) N.T.S. 1


600T150-43 TRACK
600S162-33 STUD
#10 SDSTS TO EACH SIDE OF STUD @ 24" O.C. MAX
600T150-43 TRACK
(2) ROWS OF #10 SDSTS @ 18" O.C. MAX
WINDOW SILL DETAIL
BUILT-UP WINDOW SILL PER DETAIL ABOVE
1½"x1½"x5" LONG 20 GA CLIP w/ (3) #10 SDSTS TO KING STUDS AND (3) #10 SDSTS TO SILL
KING STUD PER 1/-
600S162-33 CRIPPLE STUDS w/ (1) #10 SDSTS TO TRACK @ EA SIDE
20 GA CLIP @ EACH SIDE OF KING STUD (2 TOTAL) PER 1/-
600T150-43 TRACK
NOT USED

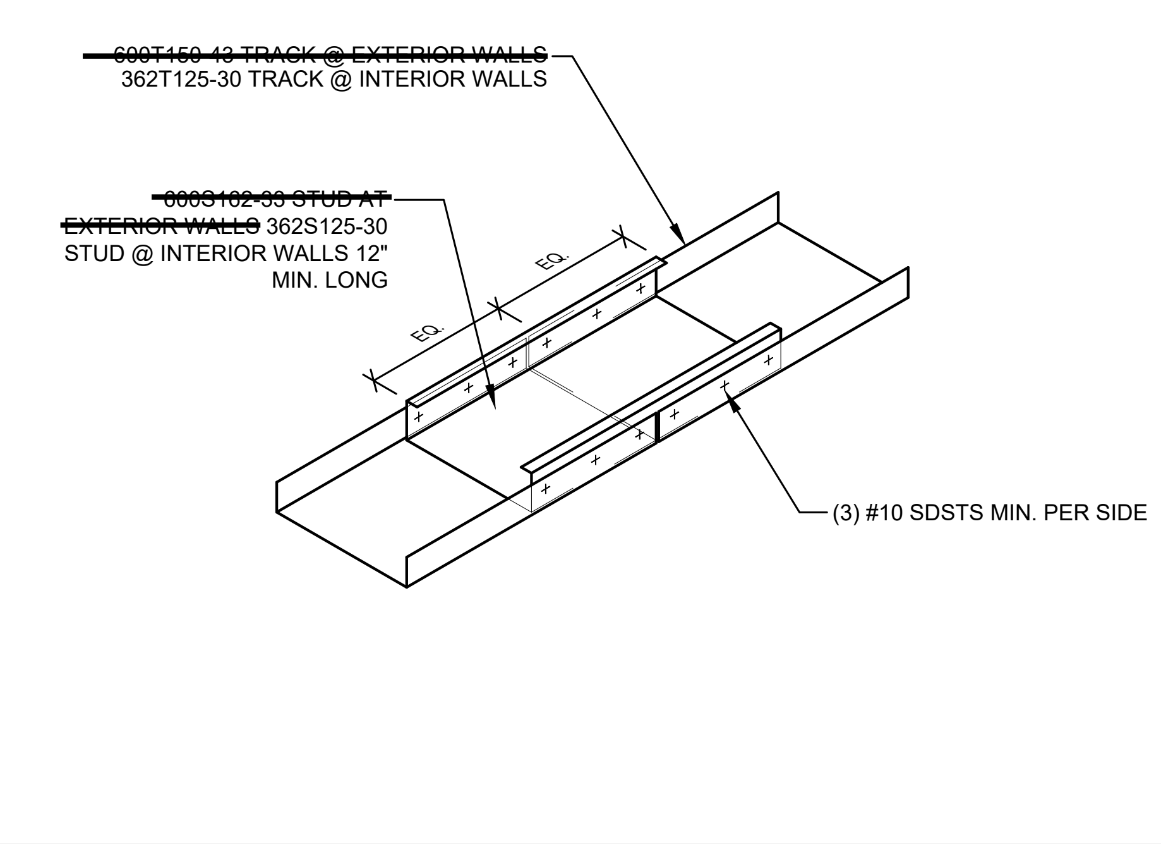
WINDOW SILL DETAIL
GREATER THAN 6'-0" - 10' - 0" MAX OPENINGS (EXTERIOR WALLS) N.T.S. 2


TRACK
STUD ATTACHED TO TOP AND BOTTOM TRACKS w/ (1) #10 SDSTS @ EACH SIDE
TRACK

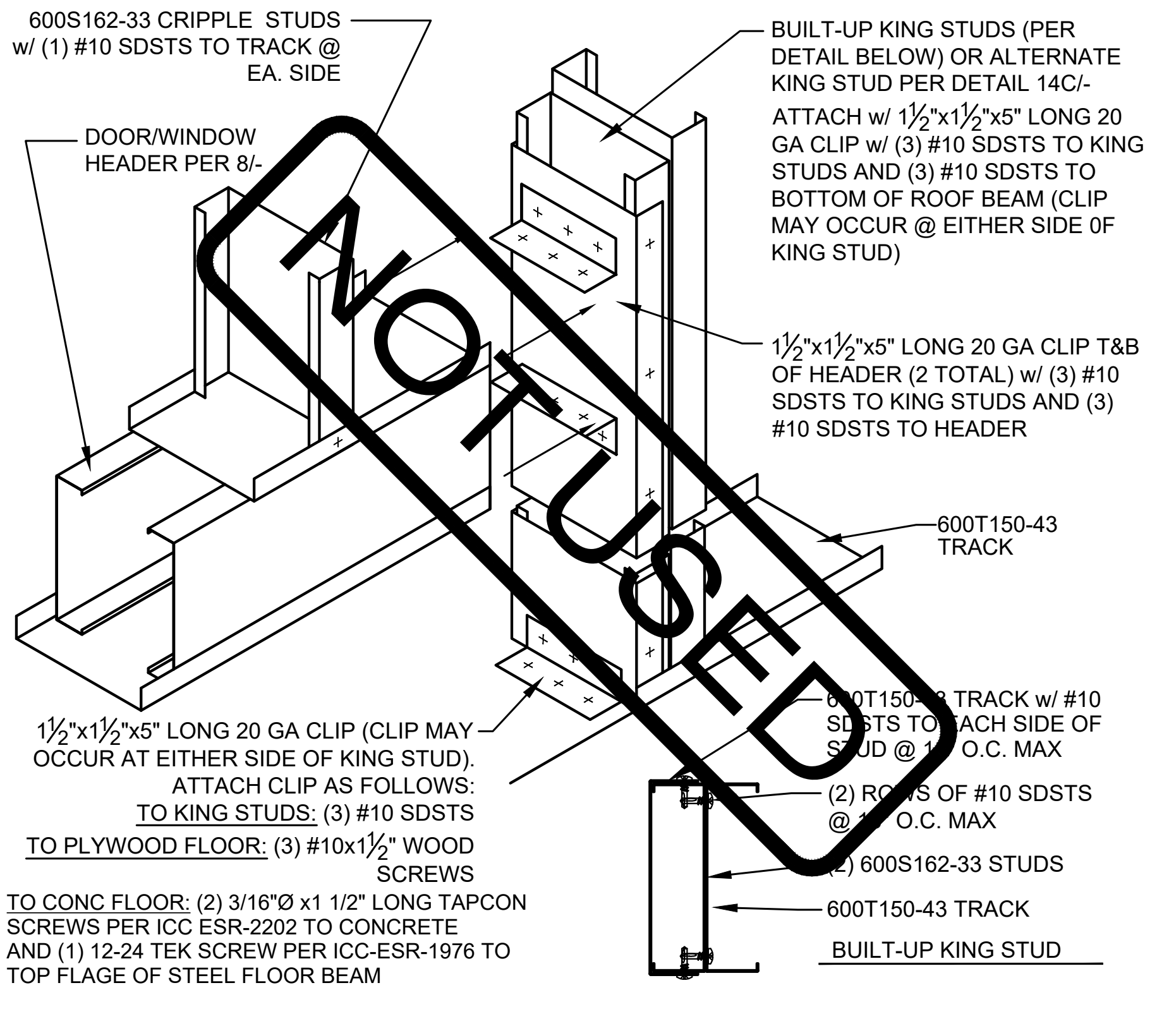
TYP. STUD ATTACHMENT SCALE: N.T.S. 3



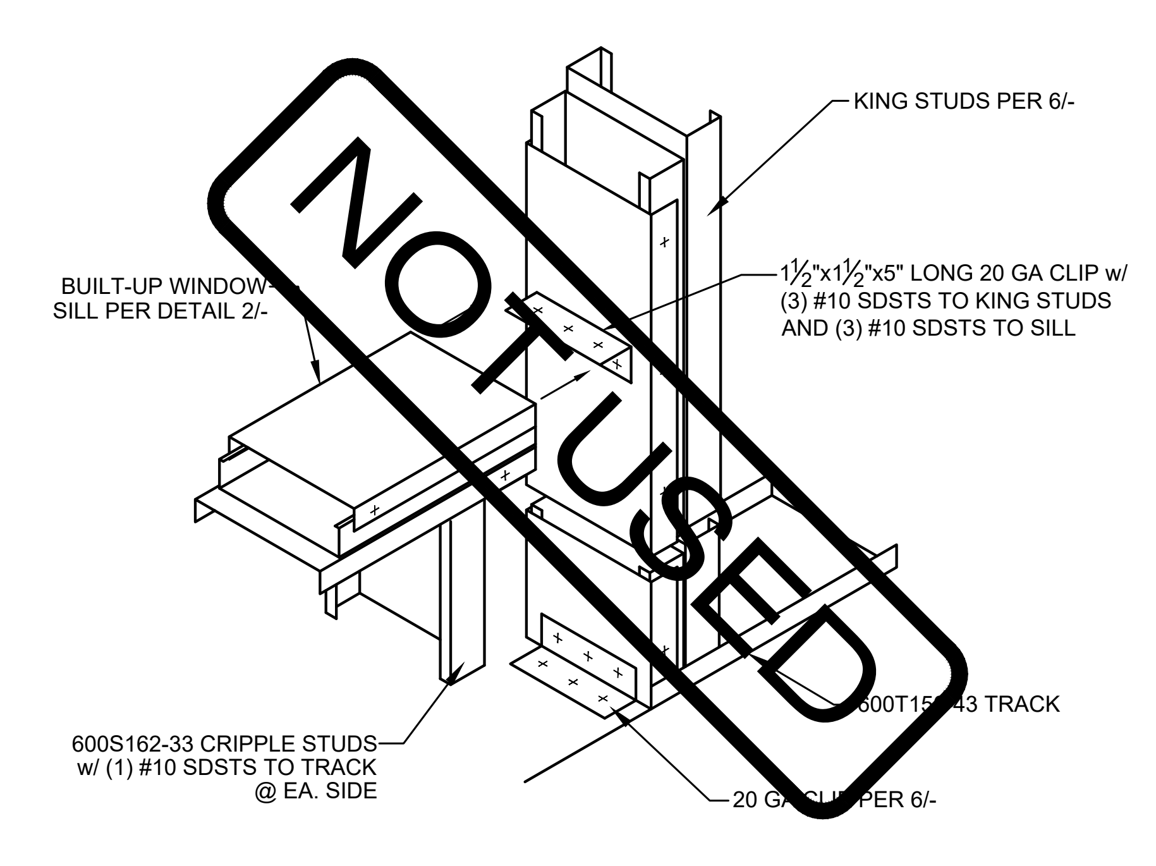
BUILT-UP CHANNEL DETAIL SCALE: N.T.S. 4


~~600T150-43 TRACK @ EXTERIOR WALLS~~ 362T125-30 TRACK @ INTERIOR WALLS
~~600S162-33 STUD AT EXTERIOR WALLS~~ 362S125-30 STUD @ INTERIOR WALLS 12" MIN. LONG
EQ.
EQ.
(3) #10 SDSTS MIN. PER SIDE

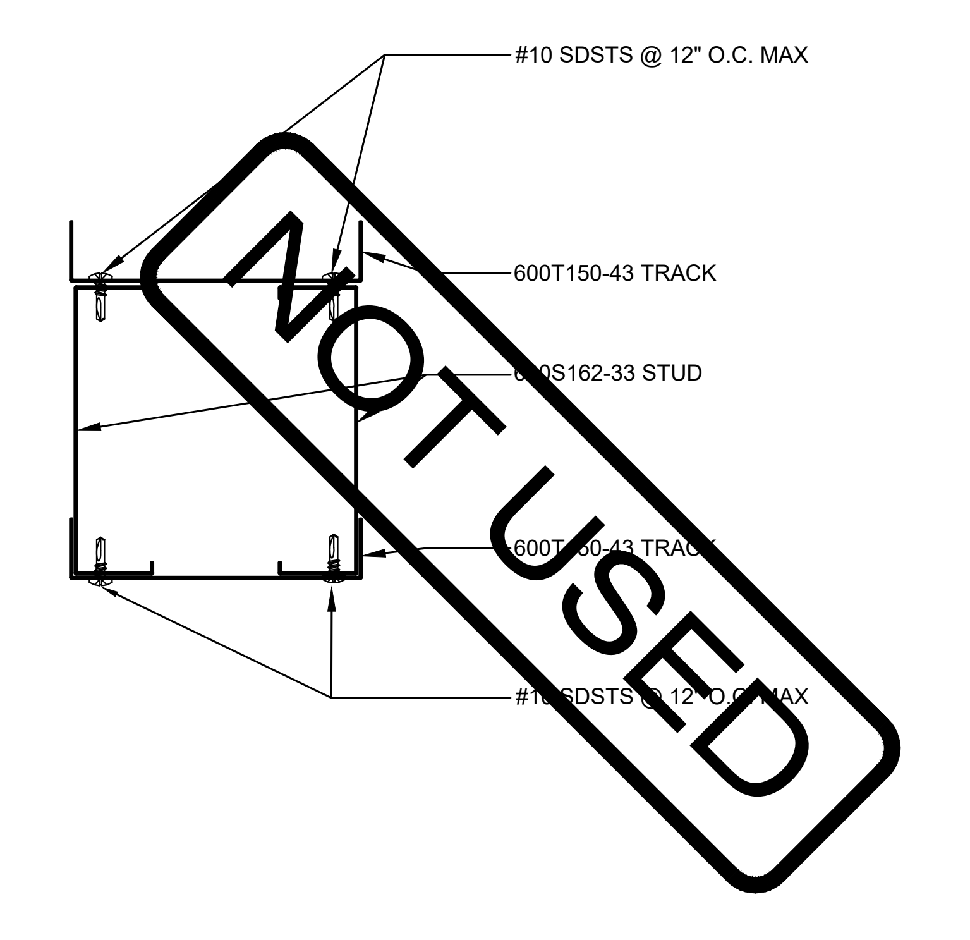
TRACK SPLICE DETAIL SCALE: N.T.S. 5


600S162-33 CRIPPLE STUDS w/ (1) #10 SDSTS TO TRACK @ EA. SIDE
DOOR/WINDOW HEADER PER 8/-
BUILT-UP KING STUDS (PER DETAIL BELOW) OR ALTERNATE KING STUD PER DETAIL 14C/-
ATTACH w/ 1½"x1½"x5" LONG 20 GA CLIP w/ (3) #10 SDSTS TO KING STUDS AND (3) #10 SDSTS TO BOTTOM OF ROOF BEAM (CLIP MAY OCCUR @ EITHER SIDE 0F KING STUD)
1½"x1½"x5" LONG 20 GA CLIP T&B OF HEADER (2 TOTAL) w/ (3) #10 SDSTS TO KING STUDS AND (3) #10 SDSTS TO HEADER
600T150-43 TRACK
1½"x1½"x5" LONG 20 GA CLIP (CLIP MAY OCCUR AT EITHER SIDE OF KING STUD). ATTACH CLIP AS FOLLOWS:
TO KING STUDS: (3) #10 SDSTS
TO PLYWOOD FLOOR: (3) #10x1½" WOOD SCREWS
TO CONC FLOOR: (2) 3/16"Ø x1 1/2" LONG TAPCON SCREWS PER ICC ESR-2202 TO CONCRETE AND (1) 12-24 TEK SCREW PER ICC-ESR-1976 TO TOP FLAGE OF STEEL FLOOR BEAM
600T150-43 TRACK w/ #10 SDSTS TO EACH SIDE OF STUD @ 18" O.C. MAX
(2) ROWS OF #10 SDSTS @ 18" O.C. MAX
(2) 600S162-33 STUDS
600T150-43 TRACK
BUILT-UP KING STUD
NOT USED

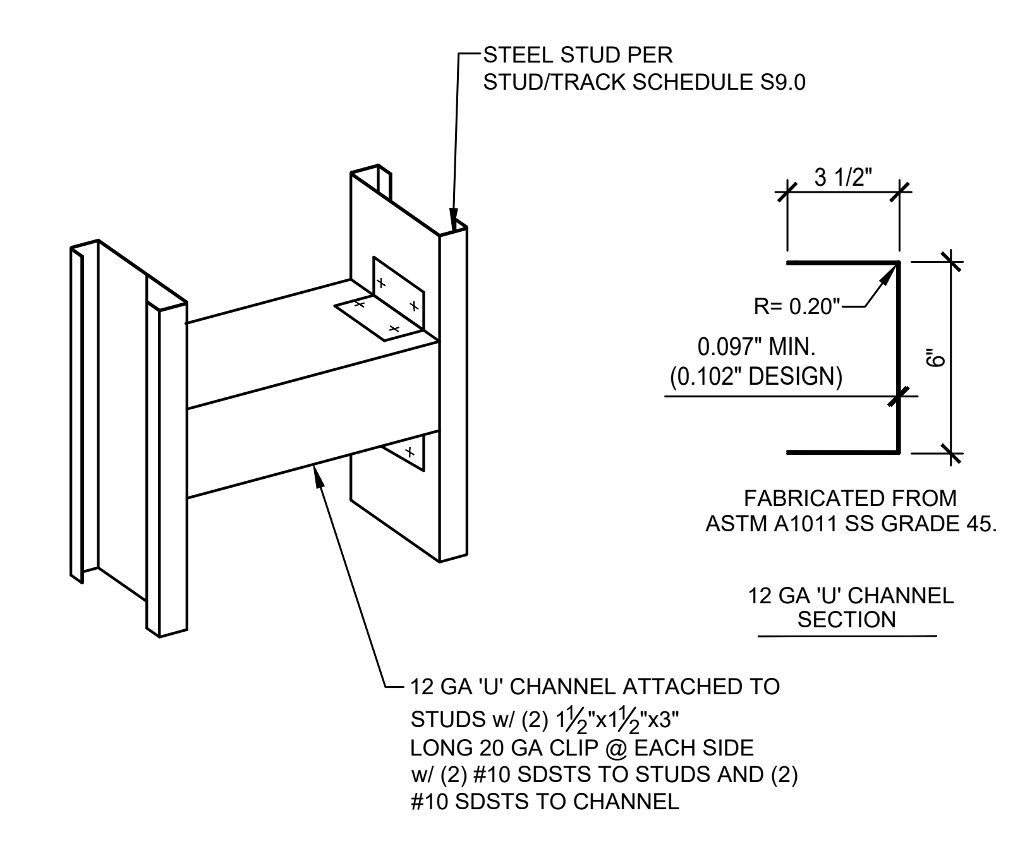
DOOR/WINDOW HEADER DETAIL
6'-0" OR LESS OPENINGS (EXTERIOR WALLS) SCALE: N.T.S. 6


KING STUDS PER 6/-
BUILT-UP WINDOW SILL PER DETAIL 2/-
1½"x1½"x5" LONG 20 GA CLIP w/ (3) #10 SDSTS TO KING STUDS AND (3) #10 SDSTS TO SILL
600T150-43 TRACK
600S162-33 CRIPPLE STUDS w/ (1) #10 SDSTS TO TRACK @ EA. SIDE
20 GA CLIP PER 6/-
NOT USED

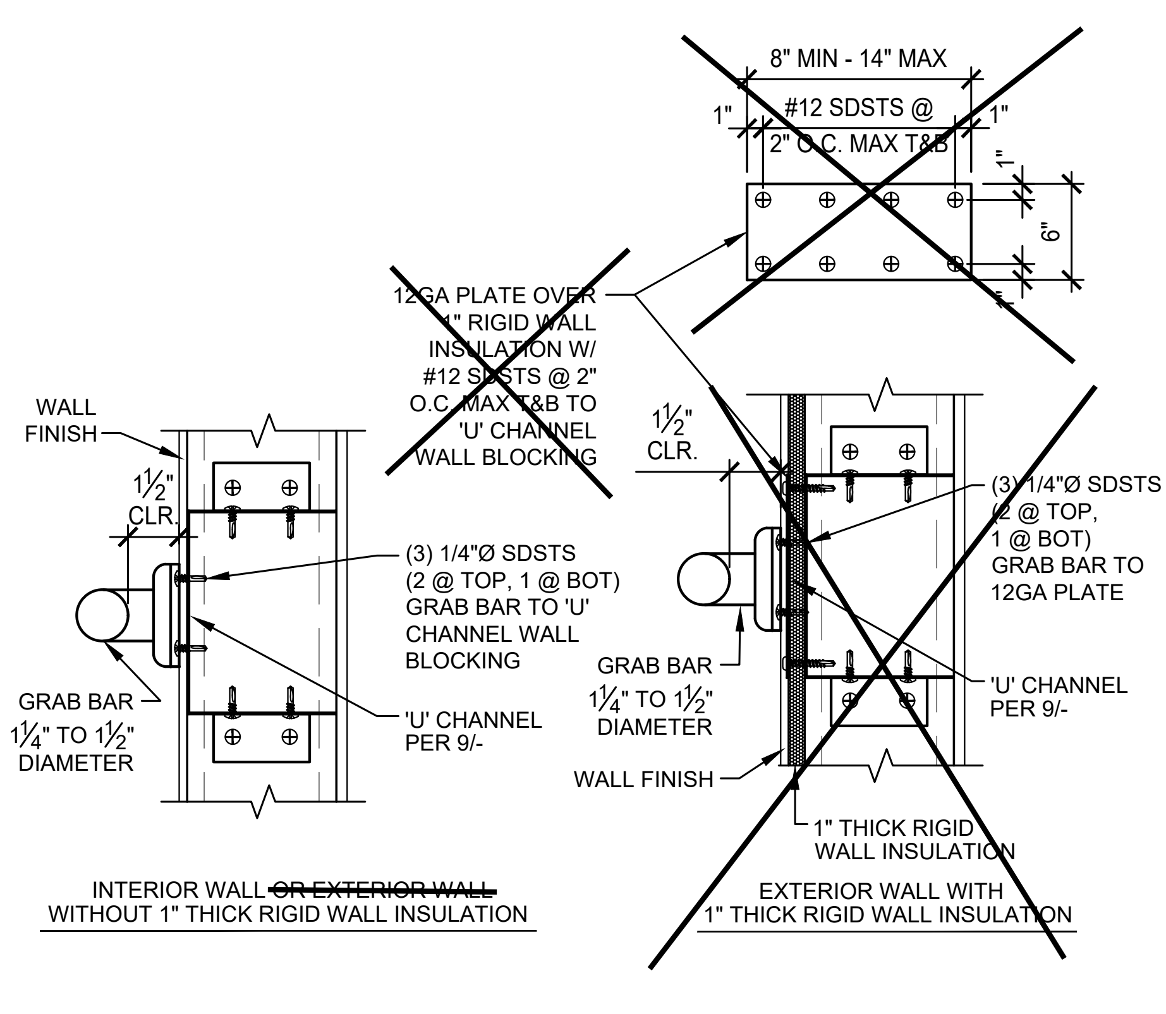
WINDOW SILL DETAIL
6'-0" OR LESS OPENINGS (EXTERIOR WALLS) SCALE: N.T.S. 7



DOOR / HEADER DETAIL SCALE: N.T.S. 8


STEEL STUD PER STUD/TRACK SCHEDULE S9.0
3 1/2"
R= 0.20"
0.097" MIN. (0.102" DESIGN)
6"
FABRICATED FROM ASTM A1011 SS GRADE 45.
12 GA 'U' CHANNEL SECTION
12 GA 'U' CHANNEL ATTACHED TO STUDS w/ (2) 1½"x1½"x3" LONG 20 GA CLIP @ EACH SIDE w/ (2) #10 SDSTS TO STUDS AND (2) #10 SDSTS TO CHANNEL

GRAB BAR BLOCKING DETAIL SCALE: N.T.S. 9

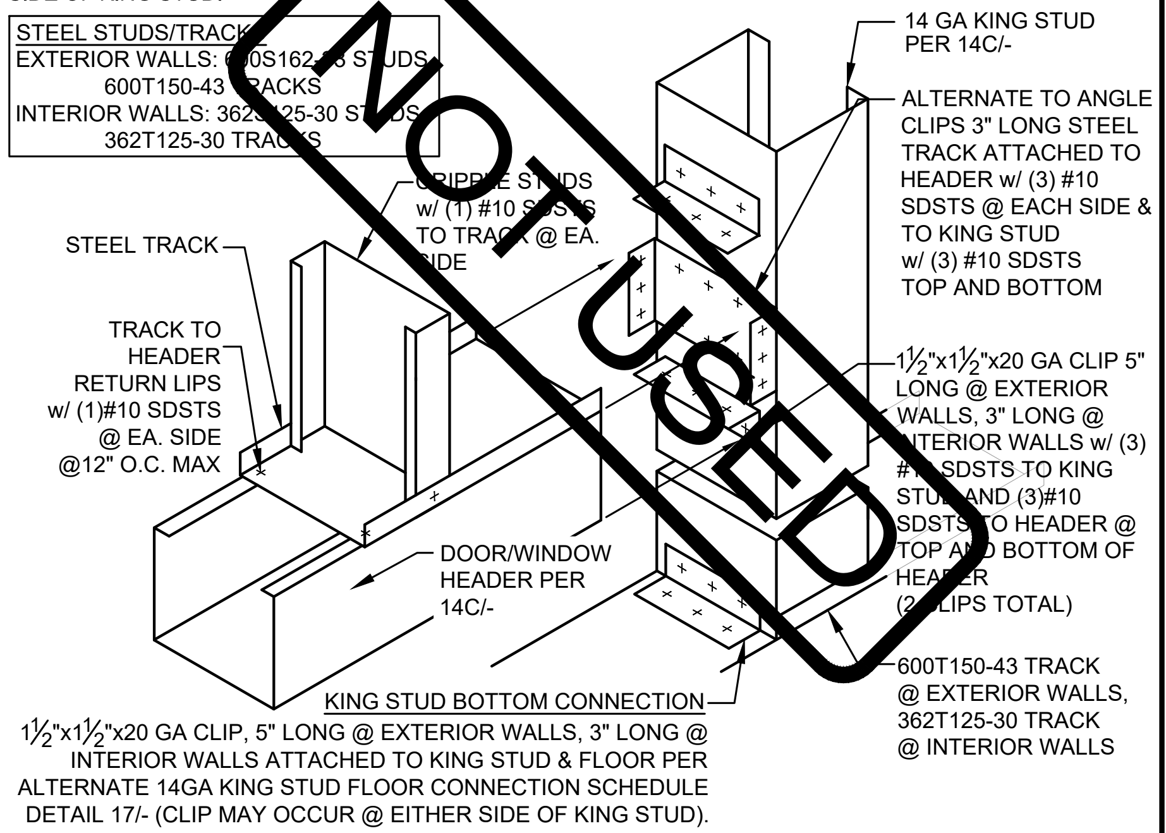

8" MIN - 14" MAX
1"
#12 SDSTS @ 2" O.C. MAX T&B
1"
1"
6"
12GA PLATE OVER 1" RIGID WALL INSULATION W/ #12 SDSTS @ 2" O.C. MAX T&B TO 'U' CHANNEL WALL BLOCKING
WALL FINISH
1½" CLR.
(3) 1/4"Ø SDSTS (2 @ TOP, 1 @ BOT) GRAB BAR TO 'U' CHANNEL WALL BLOCKING
GRAB BAR 1¼" TO 1½" DIAMETER
'U' CHANNEL PER 9/-
INTERIOR WALL ~~OR EXTERIOR WALL~~ WITHOUT 1" THICK RIGID WALL INSULATION
1½" CLR.
(3) 1/4"Ø SDSTS (2 @ TOP, 1 @ BOT) GRAB BAR TO 12GA PLATE
GRAB BAR 1¼" TO 1½" DIAMETER
'U' CHANNEL PER 9/-
WALL FINISH
1" THICK RIGID WALL INSULATION
EXTERIOR WALL WITH 1" THICK RIGID WALL INSULATION

GRAB BAR ATTACHMENT SCALE: N.T.S. 10

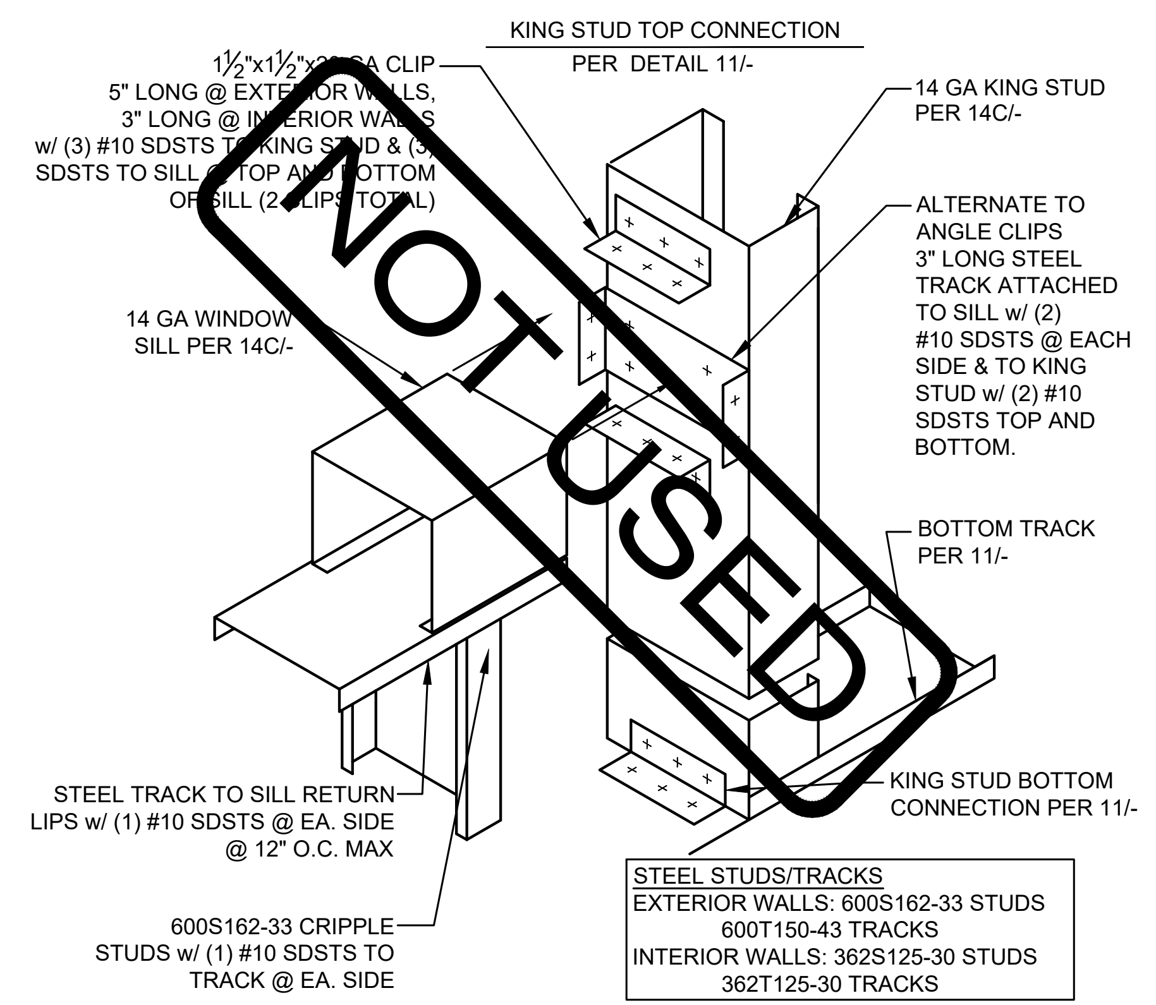
KING STUD TOP CONNECTION

@ EXTERIOR WALLS: 1½"x1½"x5" LONG 20 GA CLIP w/ (4) #10 SDSTS TO KING STUD [(3) #10 @ OPENINGS 6'-0" OR LESS] & (4) #10 SDSTS TO BOTTOM OF ROOF BEAM [(3) #10 @ OPENINGS 6'-0" OR LESS]. CLIP MAY OCCUR AT EITHER SIDE OF KING STUD.

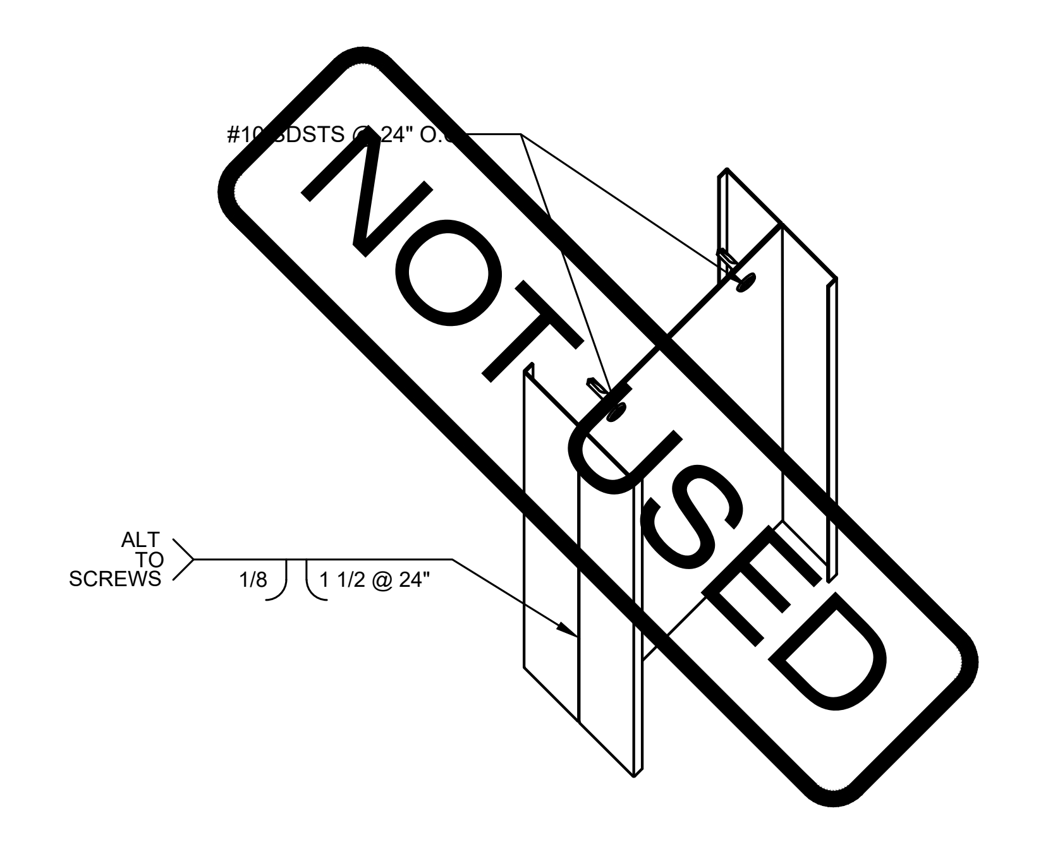
@ INTERIOR WALLS: 1½"x1½"x3" LONG 20 GA CLIP w/ (3) #10 SDSTS TO KING STUD & (3) #10 SDSTS TOP TRACK TO CLIP (DO NOT ATTACH CLIP TO ROOF FRAMING OR SLIP TRACK). CLIP MAY OCCUR AT EITHER SIDE OF KING STUD.


STEEL STUDS/TRACKS
EXTERIOR WALLS: 600S162-33 STUDS
600T150-43 TRACKS
INTERIOR WALLS: 362S125-30 STUDS
362T125-30 TRACKS
14 GA KING STUD PER 14C/-
ALTERNATE TO ANGLE CLIPS 3" LONG STEEL TRACK ATTACHED TO HEADER w/ (3) #10 SDSTS @ EACH SIDE & TO KING STUD w/ (3) #10 SDSTS TOP AND BOTTOM
CRIPPLE STUDS w/ (1) #10 SDSTS TO TRACK @ EA. SIDE
STEEL TRACK
TRACK TO HEADER RETURN LIPS w/ (1)#10 SDSTS @ EA. SIDE @12" O.C. MAX
1½"x1½"x20 GA CLIP 5" LONG @ EXTERIOR WALLS, 3" LONG @ INTERIOR WALLS w/ (3) #10 SDSTS TO KING STUD AND (3)#10 SDSTS TO HEADER @ TOP AND BOTTOM OF HEADER (2 CLIPS TOTAL)
DOOR/WINDOW HEADER PER 14C/-
600T150-43 TRACK @ EXTERIOR WALLS, 362T125-30 TRACK @ INTERIOR WALLS
KING STUD BOTTOM CONNECTION
1½"x1½"x20 GA CLIP, 5" LONG @ EXTERIOR WALLS, 3" LONG @ INTERIOR WALLS ATTACHED TO KING STUD & FLOOR PER ALTERNATE 14GA KING STUD FLOOR CONNECTION SCHEDULE DETAIL 17/- (CLIP MAY OCCUR @ EITHER SIDE OF KING STUD).
NOT USED

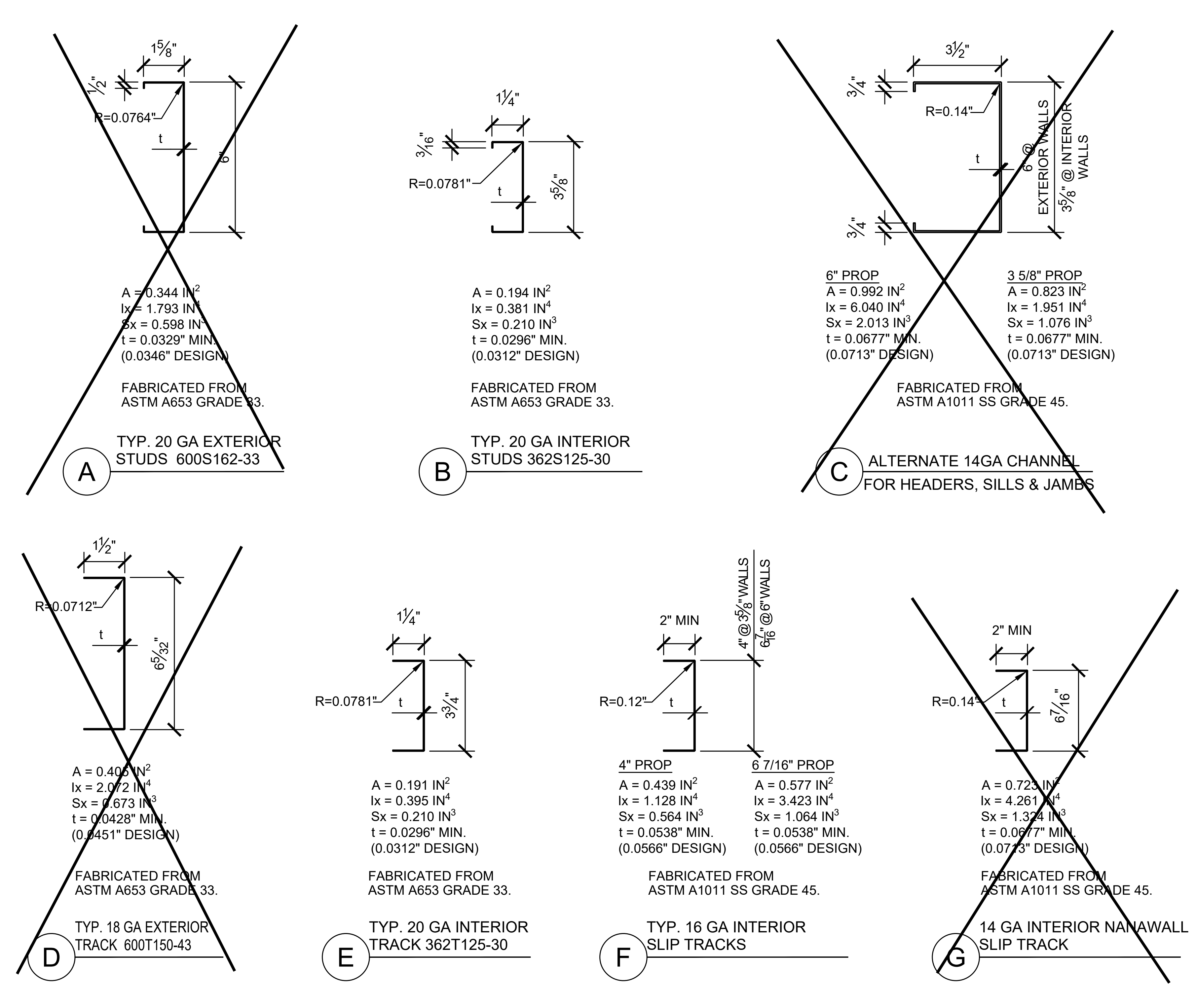
ALT. DOOR/WINDOW HEADER DETAIL
10'-0" MAX OPENINGS (EXTERIOR OR INTERIOR WALLS) SCALE: N.T.S. 11

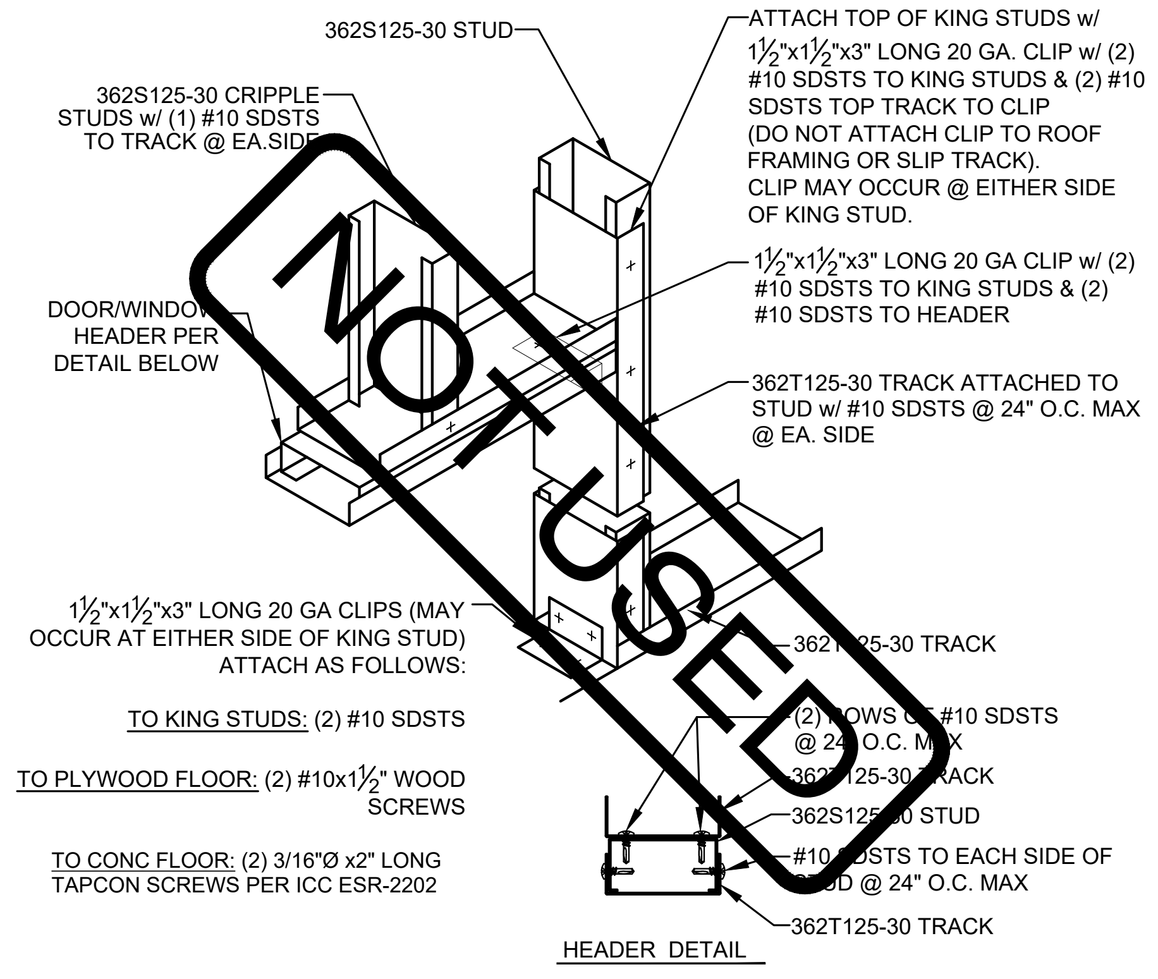

KING STUD TOP CONNECTION PER DETAIL 11/-
1½"x1½"x20 GA CLIP 5" LONG @ EXTERIOR WALLS, 3" LONG @ INTERIOR WALLS w/ (3) #10 SDSTS TO KING STUD & (3) SDSTS TO SILL @ TOP AND BOTTOM OF SILL (2 CLIPS TOTAL)
14 GA KING STUD PER 14C/-
ALTERNATE TO ANGLE CLIPS 3" LONG STEEL TRACK ATTACHED TO SILL w/ (2) #10 SDSTS @ EACH SIDE & TO KING STUD w/ (2) #10 SDSTS TOP AND BOTTOM.
14 GA WINDOW SILL PER 14C/-
BOTTOM TRACK PER 11/-
KING STUD BOTTOM CONNECTION PER 11/-
STEEL TRACK TO SILL RETURN LIPS w/ (1) #10 SDSTS @ EA. SIDE @ 12" O.C. MAX
600S162-33 CRIPPLE STUDS w/ (1) #10 SDSTS TO TRACK @ EA. SIDE
STEEL STUDS/TRACKS
EXTERIOR WALLS: 600S162-33 STUDS
600T150-43 TRACKS
INTERIOR WALLS: 362S125-30 STUDS
362T125-30 TRACKS
NOT USED

ALT. WINDOW SILL DETAIL
10'-0" MAX OPENINGS (EXTERIOR OR INTERIOR WALLS) SCALE: N.T.S. 12

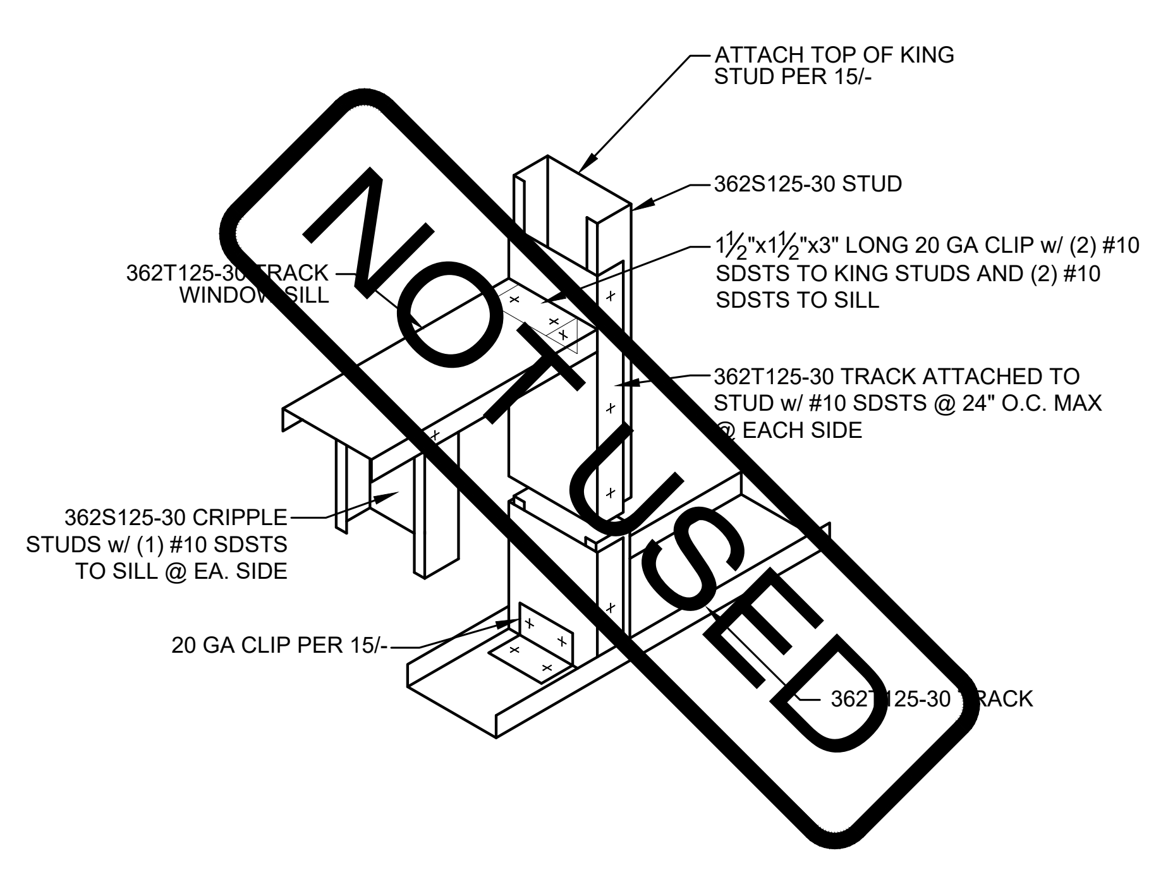


DOUBLE STUD CONNECTION DETAIL SCALE: N.T.S. 13




362S125-30 STUD
362S125-30 CRIPPLE STUDS w/ (1) #10 SDSTS TO TRACK @ EA.SIDE
ATTACH TOP OF KING STUDS w/ 1½"x1½"x3" LONG 20 GA. CLIP w/ (2) #10 SDSTS TO KING STUDS & (2) #10 SDSTS TOP TRACK TO CLIP (DO NOT ATTACH CLIP TO ROOF FRAMING OR SLIP TRACK). CLIP MAY OCCUR @ EITHER SIDE OF KING STUD.
1½"x1½"x3" LONG 20 GA CLIP w/ (2) #10 SDSTS TO KING STUDS & (2) #10 SDSTS TO HEADER
DOOR/WINDOW HEADER PER DETAIL BELOW
362T125-30 TRACK ATTACHED TO STUD w/ #10 SDSTS @ 24" O.C. MAX @ EA. SIDE
1½"x1½"x3" LONG 20 GA CLIPS (MAY OCCUR AT EITHER SIDE OF KING STUD) ATTACH AS FOLLOWS:
TO KING STUDS: (2) #10 SDSTS
TO PLYWOOD FLOOR: (2) #10x1½" WOOD SCREWS
TO CONC FLOOR: (2) 3/16"Ø x2" LONG TAPCON SCREWS PER ICC ESR-2202
362T125-30 TRACK
(2) ROWS OF #10 SDSTS @ 24" O.C. MAX
362T125-30 TRACK
362S125-30 STUD
#10 SDSTS TO EACH SIDE OF STUD @ 24" O.C. MAX
362T125-30 TRACK
HEADER DETAIL
NOT USED

DOOR/WINDOW HEADER DETAIL
6'-0" OR LESS OPENINGS (INTERIOR WALLS) 15


ATTACH TOP OF KING STUD PER 15/-
362S125-30 STUD
362T125-30 TRACK WINDOW SILL
1½"x1½"x3" LONG 20 GA CLIP w/ (2) #10 SDSTS TO KING STUDS AND (2) #10 SDSTS TO SILL
362T125-30 TRACK ATTACHED TO STUD w/ #10 SDSTS @ 24" O.C. MAX @ EACH SIDE
362S125-30 CRIPPLE STUDS w/ (1) #10 SDSTS TO SILL @ EA. SIDE
20 GA CLIP PER 15/-
362T125-30 TRACK
NOT USED

WINDOW SILL DETAIL
6'-0" OR LESS OPENINGS (INTERIOR WALLS) 16

ALTERNATE 14 GA. KING STUD FLOOR CONNECTION SCHEDULE (REF. 11 & 12/-)						
	CLIP ANGLE TO KING STUD #10 SDSTS		CLIP ANGLE TO PLYWOOD FLOOR #10x1½" WOOD SCREWS		CLIP ANGLE TO CONCRETE FLOOR	
					HILTI X-U 27 P8 SHOT PINS[1] (0.157"Øx1-1/16")	HILTI X-C 37 P8 SHOT PINS[2] (0.138"Øx1-15/16")
	EXT. WALL	INT WALL	EXT. WALL	INT WALL	EXT. WALL	INT WALL
6'-0" UP TO 10'-0" OPENINGS	4	3	[illegible]	3	3	2
OPENINGS LESS THAN 6'-0"	3	3	3	2	3	2

1. HILTI X-U SHOT PINS PER ICC ESR-2269. AT LEAST ONE (1) SHOT PIN PER CLIP SHALL BE INSTALLED DIRECTLY INTO TOP FLANGE OF STEEL FLOOR BEAM.
2. HILTI X-C SHOT PINS PER ICC ESR-1663.

NOT USED

ALTERNATE 14 GA KING STUD FLOOR CONNECTION SCHEDULE 17

STEEL STUD PROPERTIES SCALE: N.T.S 14

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME
.
.
.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122042 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/15/2024

☐ 2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

MANNY D. FRISCH
No. S3380

RST#22214

02-08-24

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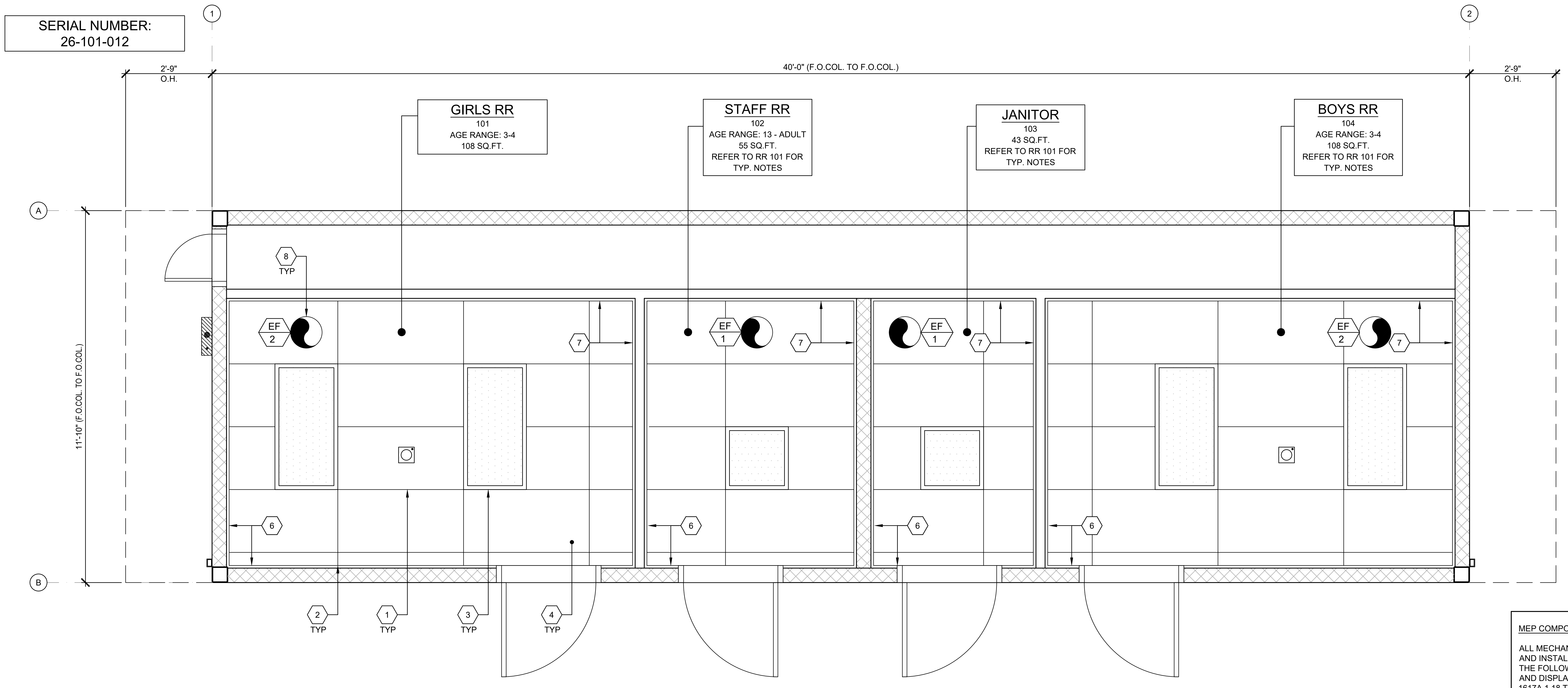
REVISIONS
1
2
3
4

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

SHEET TITLE:
TYPICAL METAL STUD FRAMING DETAILS & PROPERTIES

SHEET NUMBER:
S9.2

SERIAL NUMBER:
26-101-012



REFLECTED CEILING PLAN - GIRLS/STAFF/JANITOR/BOYS (AGE RANGE: 13-ADULT & 3-4)

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

1

1. MAIN TEE RUNNER TYP. PER TABLE A, SHEET M1.4
2. CROSS TEE RUNNER TYP. PER TABLE A, SHEET M1.4
3. INTERIOR LIGHT FIXTURE, REFER TO SHEET SHEET E1.0 FOR SPEC'S ATTACHMENT PER DETAIL 7/M1.4
4. CEILING HEIGHT @ 8'-6" MIN, SEE SCHEDULE
5. NOT USED
6. FIXED CEILING END, SEE DETAIL 5A/M1.4
7. FREE CEILING END, SEE DETAIL 5B/M1.4
8. EXHAUST FAN - SEE SCHEDULE BELOW

KEYNOTES

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

NOTES:

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

EXHAUST FAN SCHEDULE

NOT USED

MEP COMPONENT ANCHORAGE NOTES

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

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR110/220 VOLT RECEPTACLES HAVING A FLEXBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

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

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

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

MEP COMPONENT ANCHORAGE NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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PRE-CHECKED SET NAME
12'x40' STANDARD MODULAR
BUILDING

FORM

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(1) 12'x40' RESTROOM

MANUFACTURER PROFESSIONAL OF RECORD

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-27

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REVISIONS

1	
2	
3	
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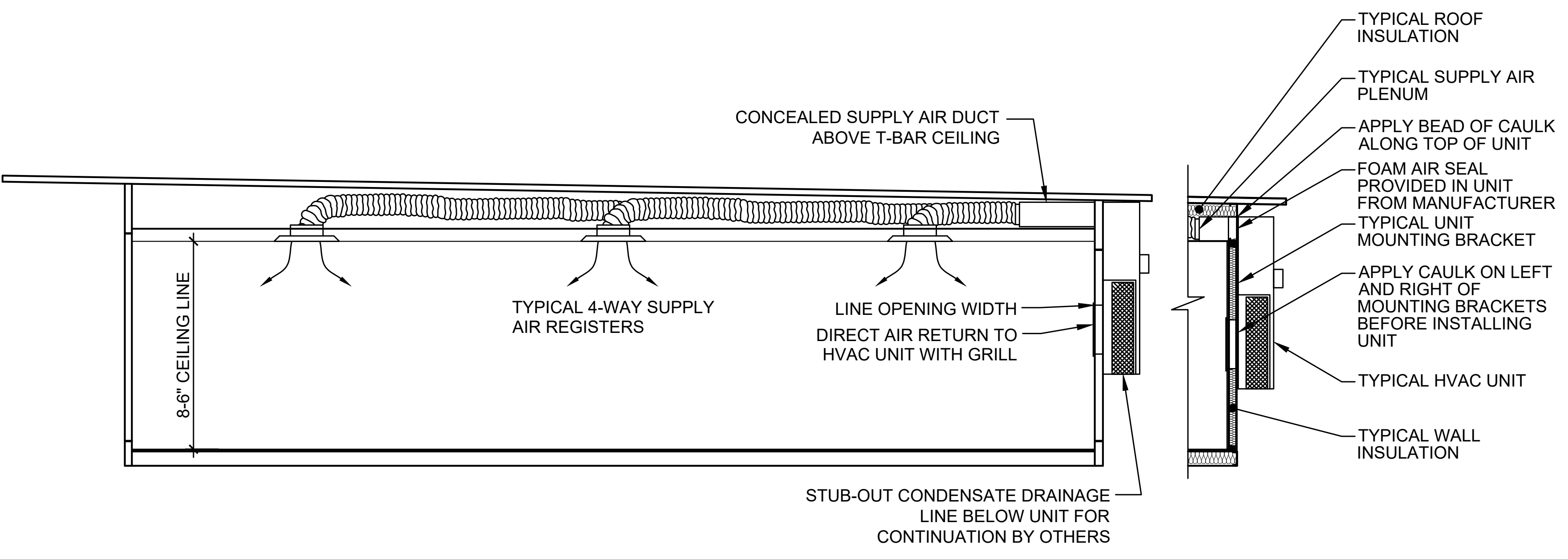
DRAWN BY:	AV
SCALE:	AS NOTED
DATE:	3/6/2026
PROJECT NO:	2003-26

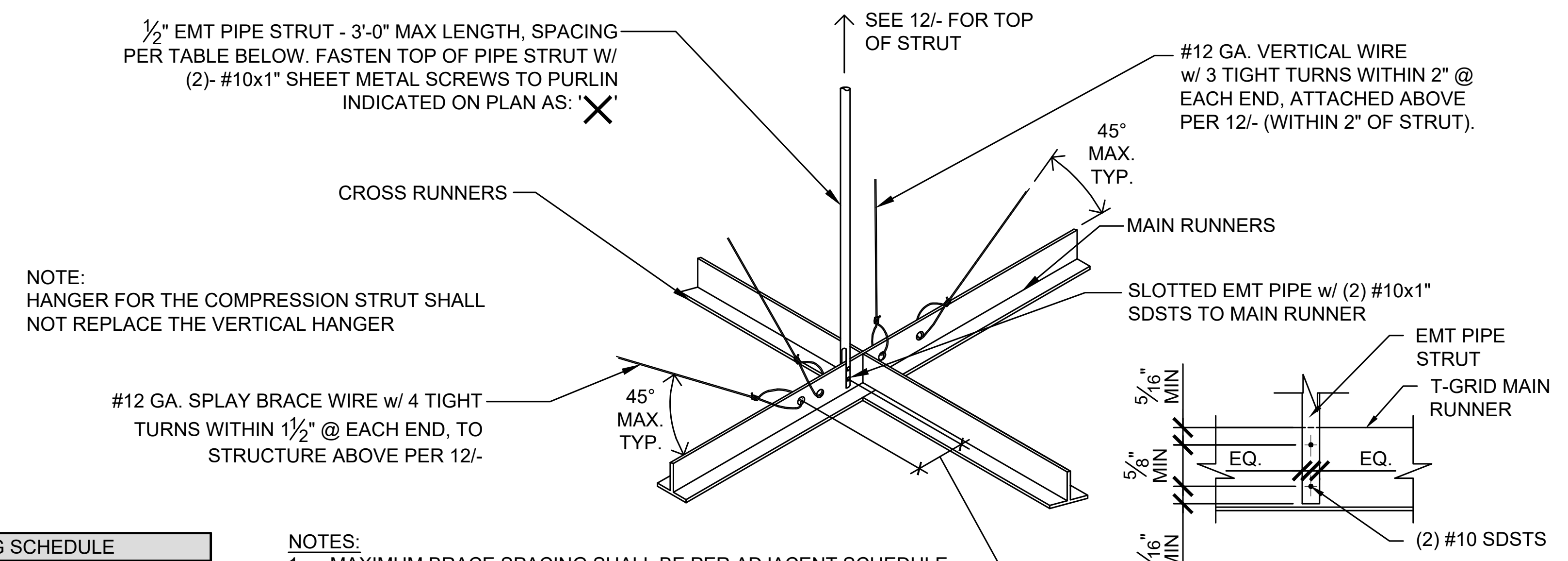
SHEET TITLE:
REFLECTED
CEILING PLAN

SHEET NUMBER:
M1.2


TYPICAL ROOF INSULATION
TYPICAL SUPPLY AIR PLENUM
APPLY BEAD OF CAULK ALONG TOP OF UNIT
FOAM AIR SEAL PROVIDED IN UNIT FROM MANUFACTURER
TYPICAL UNIT MOUNTING BRACKET
APPLY CAULK ON LEFT AND RIGHT OF MOUNTING BRACKETS BEFORE INSTALLING UNIT
TYPICAL HVAC UNIT
TYPICAL WALL INSULATION
CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING
8-6" CEILING LINE
TYPICAL 4-WAY SUPPLY AIR REGISTERS
LINE OPENING WIDTH
DIRECT AIR RETURN TO HVAC UNIT WITH GRILL
STUB-OUT CONDENSATE DRAINAGE LINE BELOW UNIT FOR CONTINUATION BY OTHERS

TYPICAL MECHANICAL SECTION

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

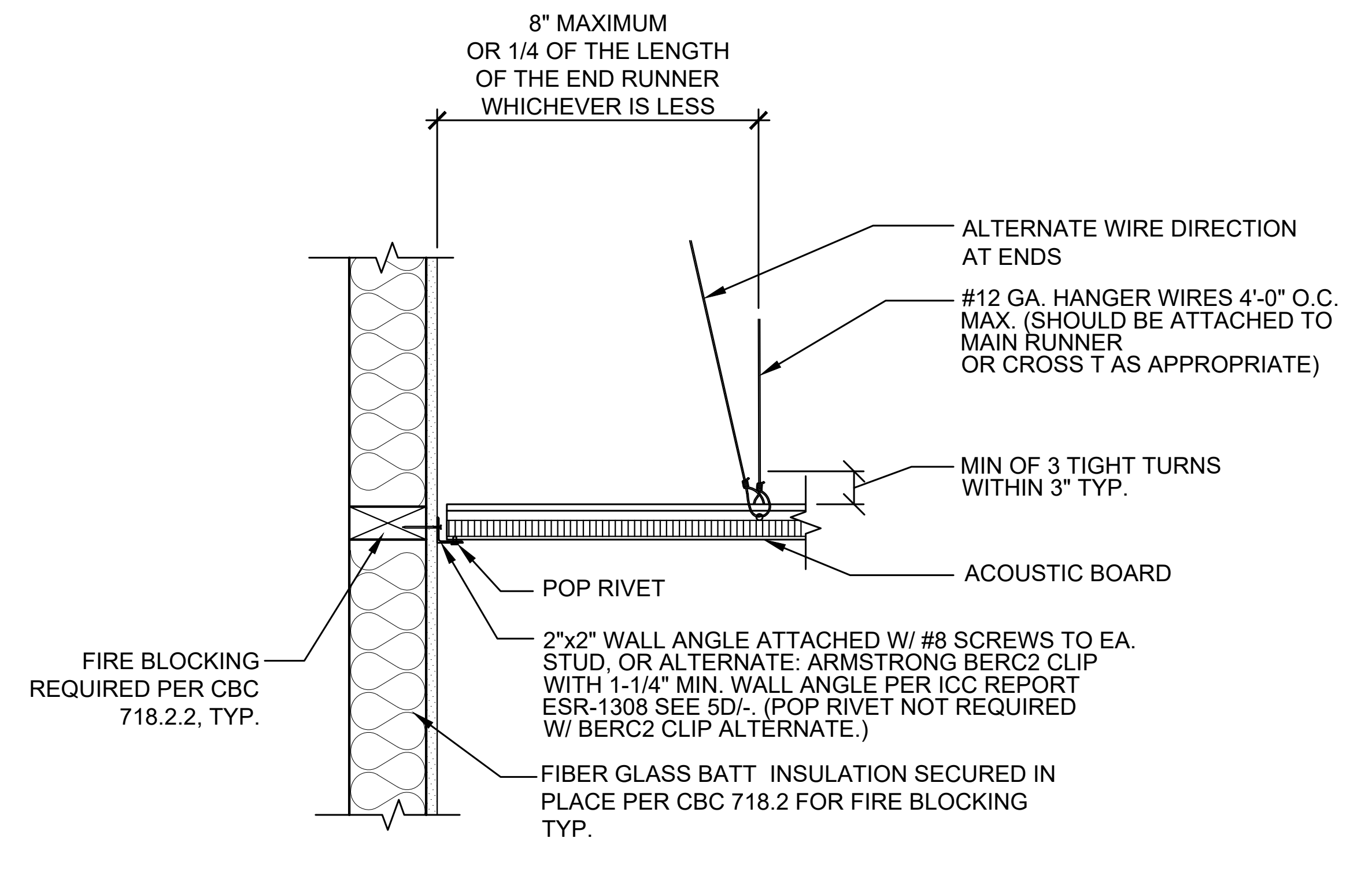

½" EMT PIPE STRUT - 3'-0" MAX LENGTH, SPACING PER TABLE BELOW. FASTEN TOP OF PIPE STRUT W/ (2)- #10x1" SHEET METAL SCREWS TO PURLIN INDICATED ON PLAN AS: '✕'
SEE 12/- FOR TOP OF STRUT
#12 GA. VERTICAL WIRE w/ 3 TIGHT TURNS WITHIN 2" @ EACH END, ATTACHED ABOVE PER 12/- (WITHIN 2" OF STRUT).
45° MAX. TYP.
CROSS RUNNERS
MAIN RUNNERS
NOTE: HANGER FOR THE COMPRESSION STRUT SHALL NOT REPLACE THE VERTICAL HANGER
SLOTTED EMT PIPE w/ (2) #10x1" SDSTS TO MAIN RUNNER
EMT PIPE STRUT
T-GRID MAIN RUNNER
#12 GA. SPLAY BRACE WIRE w/ 4 TIGHT TURNS WITHIN 1½" @ EACH END, TO STRUCTURE ABOVE PER 12/-
45° MAX. TYP.
5/16" MIN
5/8" MIN
5/16" MIN
EQ.
EQ.
(2) #10 SDSTS
2" MAX FROM BRACING WIRES TO COMPRESSION STRUT & CROSS RUNNER, TYP.

BRACING SCHEDULE	
SITE SPECIFIC S_{DS} (PER SHEET TS)	MAX. SPACING
☐ $S_{DS} \leq 1.15$	12'x12'
☐ $1.15 \leq S_{DS} \leq 1.73$	8'x12'
☒ $S_{DS} > 1.73$	8'x8'

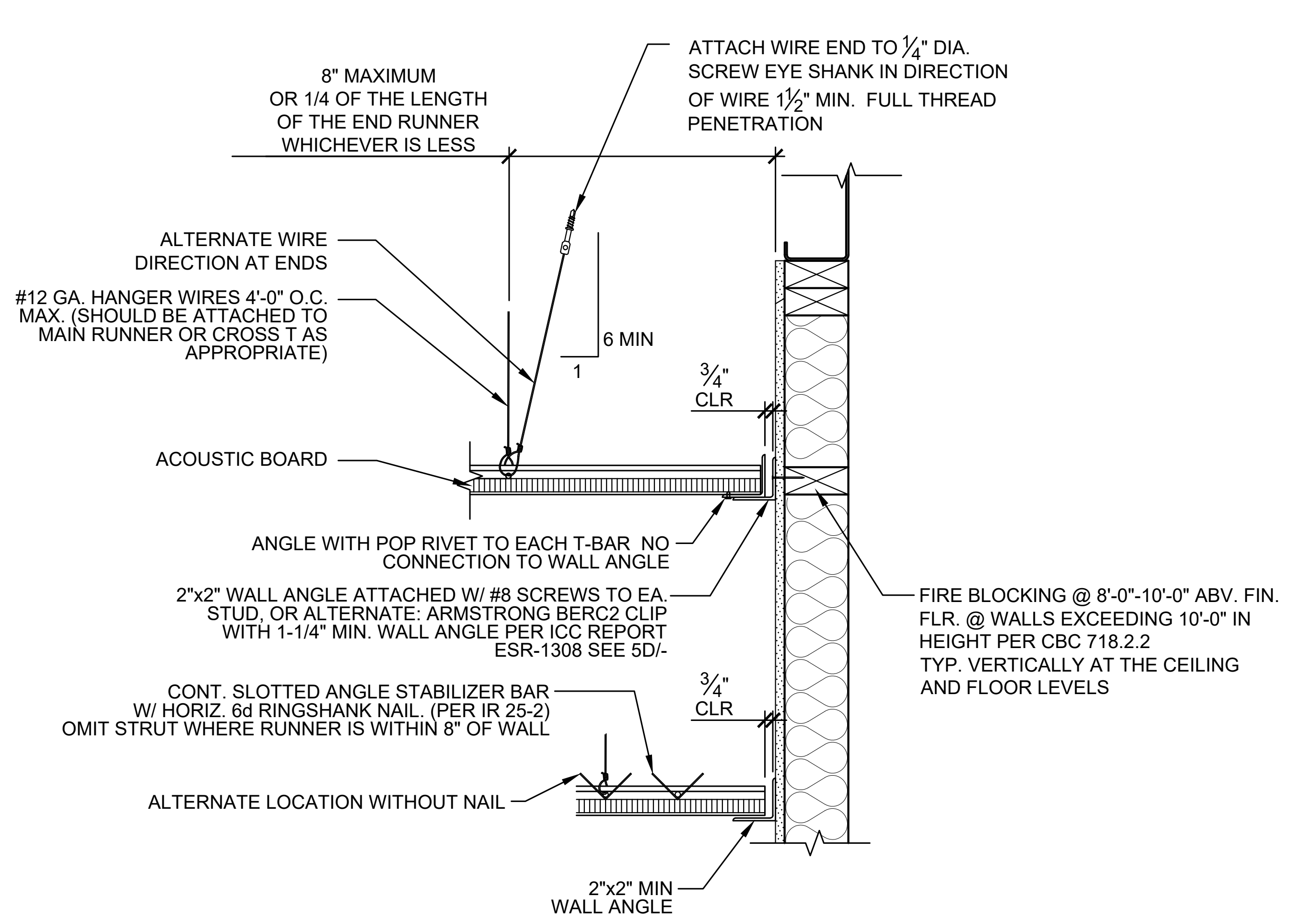
NOTES:
1. MAXIMUM BRACE SPACING SHALL BE PER ADJACENT SCHEDULE.
2. THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSET. FOR EXAMPLE, WHERE THE BRACE SPACING IS 8'x12", THE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

STRUT/SPLAY WIRE ASSEMBLY DETAIL

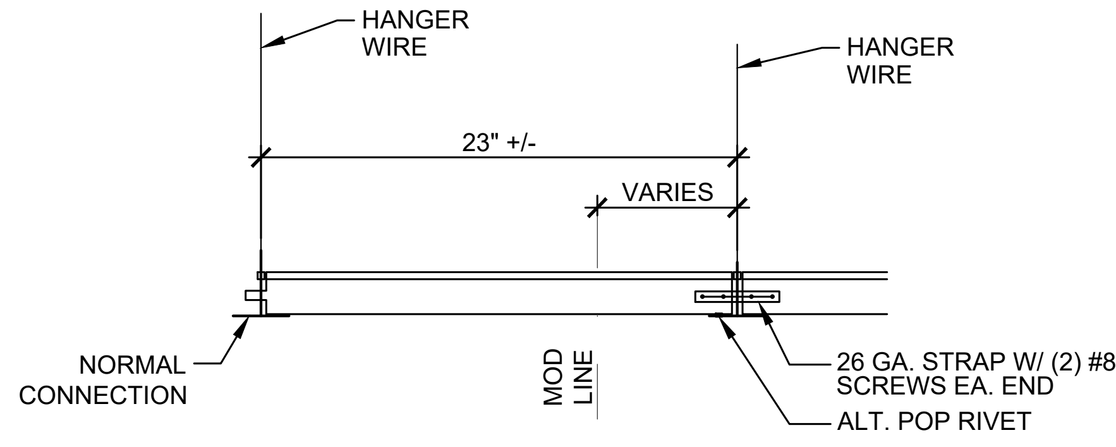
NOT TO SCALE 2


8" MAXIMUM OR 1/4 OF THE LENGTH OF THE END RUNNER WHICHEVER IS LESS
ALTERNATE WIRE DIRECTION AT ENDS
#12 GA. HANGER WIRES 4'-0" O.C. MAX. (SHOULD BE ATTACHED TO MAIN RUNNER OR CROSS T AS APPROPRIATE)
MIN OF 3 TIGHT TURNS WITHIN 3" TYP.
ACOUSTIC BOARD
POP RIVET
FIRE BLOCKING REQUIRED PER CBC 718.2.2, TYP.
2"x2" WALL ANGLE ATTACHED W/ #8 SCREWS TO EA. STUD, OR ALTERNATE: ARMSTRONG BERC2 CLIP WITH 1-1/4" MIN. WALL ANGLE PER ICC REPORT ESR-1308 SEE 5D/-. (POP RIVET NOT REQUIRED W/ BERC2 CLIP ALTERNATE.)
FIBER GLASS BATT INSULATION SECURED IN PLACE PER CBC 718.2 FOR FIRE BLOCKING TYP.

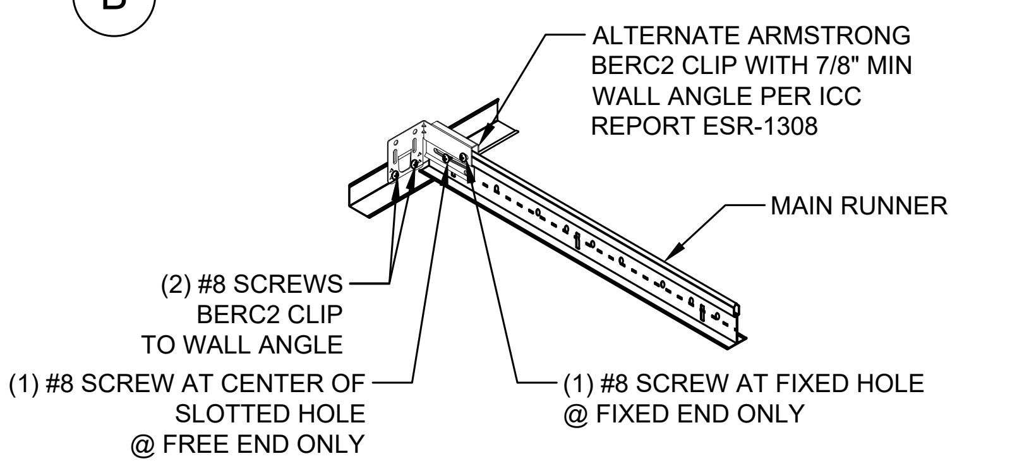
Ⓐ FIXED END


ATTACH WIRE END TO ¼" DIA. SCREW EYE SHANK IN DIRECTION OF WIRE 1½" MIN. FULL THREAD PENETRATION
8" MAXIMUM OR 1/4 OF THE LENGTH OF THE END RUNNER WHICHEVER IS LESS
ALTERNATE WIRE DIRECTION AT ENDS
#12 GA. HANGER WIRES 4'-0" O.C. MAX. (SHOULD BE ATTACHED TO MAIN RUNNER OR CROSS T AS APPROPRIATE)
6 MIN
1
¾" CLR
ACOUSTIC BOARD
ANGLE WITH POP RIVET TO EACH T-BAR NO CONNECTION TO WALL ANGLE
2"x2" WALL ANGLE ATTACHED W/ #8 SCREWS TO EA. STUD, OR ALTERNATE: ARMSTRONG BERC2 CLIP WITH 1-1/4" MIN. WALL ANGLE PER ICC REPORT ESR-1308 SEE 5D/-
FIRE BLOCKING @ 8'-0"-10'-0" ABV. FIN. FLR. @ WALLS EXCEEDING 10'-0" IN HEIGHT PER CBC 718.2.2 TYP. VERTICALLY AT THE CEILING AND FLOOR LEVELS
CONT. SLOTTED ANGLE STABILIZER BAR W/ HORIZ. 6d RINGSHANK NAIL. (PER IR 25-2) OMIT STRUT WHERE RUNNER IS WITHIN 8" OF WALL
¾" CLR
ALTERNATE LOCATION WITHOUT NAIL
2"x2" MIN WALL ANGLE

Ⓑ FREE END



Ⓒ RUNNER SPLICE AND CEILING CONNECTION @ MODULE LINE

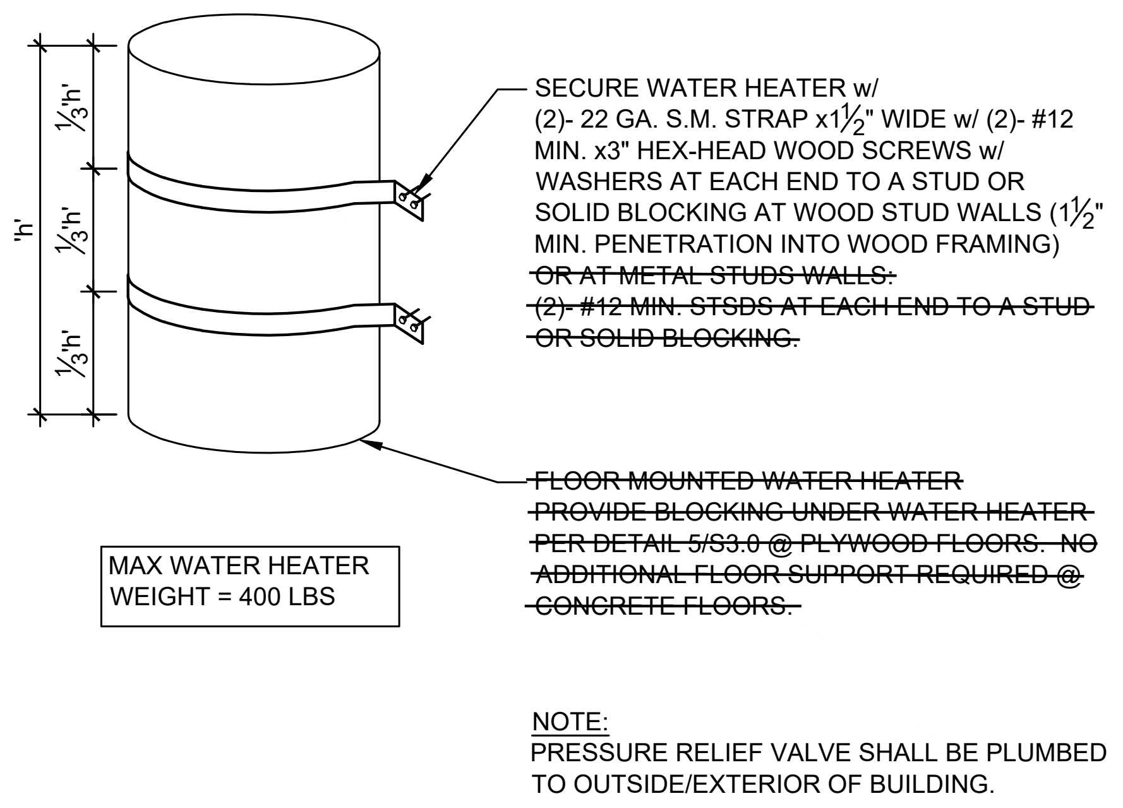

ALTERNATE ARMSTRONG BERC2 CLIP WITH 7/8" MIN WALL ANGLE PER ICC REPORT ESR-1308
MAIN RUNNER
(2) #8 SCREWS BERC2 CLIP TO WALL ANGLE
(1) #8 SCREW AT CENTER OF SLOTTED HOLE @ FREE END ONLY
(1) #8 SCREW AT FIXED HOLE @ FIXED END ONLY

Ⓓ ALTERNATE BERC2 CLIP DETAIL

NOTE:
NAILS AT THE END OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTERLINE OF SPAN OF STRUT.

SUSPENDED CEILING ATTACHMENT DETAILS

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

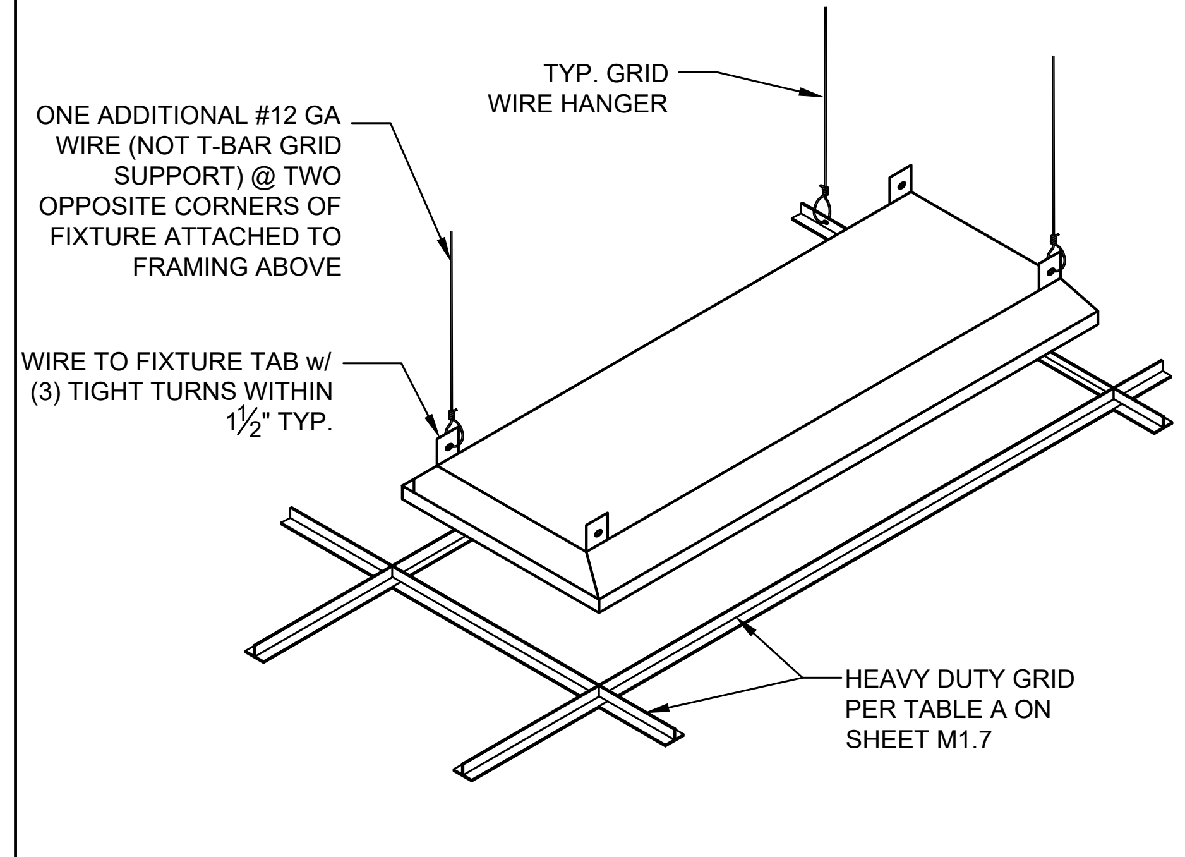

'h'
⅓'h'
⅓'h'
⅓'h'
SECURE WATER HEATER w/ (2)- 22 GA. S.M. STRAP x1½" WIDE w/ (2)- #12 MIN. x3" HEX-HEAD WOOD SCREWS w/ WASHERS AT EACH END TO A STUD OR SOLID BLOCKING AT WOOD STUD WALLS (1½" MIN. PENETRATION INTO WOOD FRAMING) ~~OR AT METAL STUDS WALLS: (2)- #12 MIN. STSDS AT EACH END TO A STUD OR SOLID BLOCKING.~~
~~FLOOR MOUNTED WATER HEATER PROVIDE BLOCKING UNDER WATER HEATER PER DETAIL 5/S3.0 @ PLYWOOD FLOORS. NO ADDITIONAL FLOOR SUPPORT REQUIRED @ CONCRETE FLOORS.~~

MAX WATER HEATER WEIGHT = 400 LBS

NOTE:
PRESSURE RELIEF VALVE SHALL BE PLUMBED TO OUTSIDE/EXTERIOR OF BUILDING.

WATER HEATER STRAP DETAIL

NOT TO SCALE 6

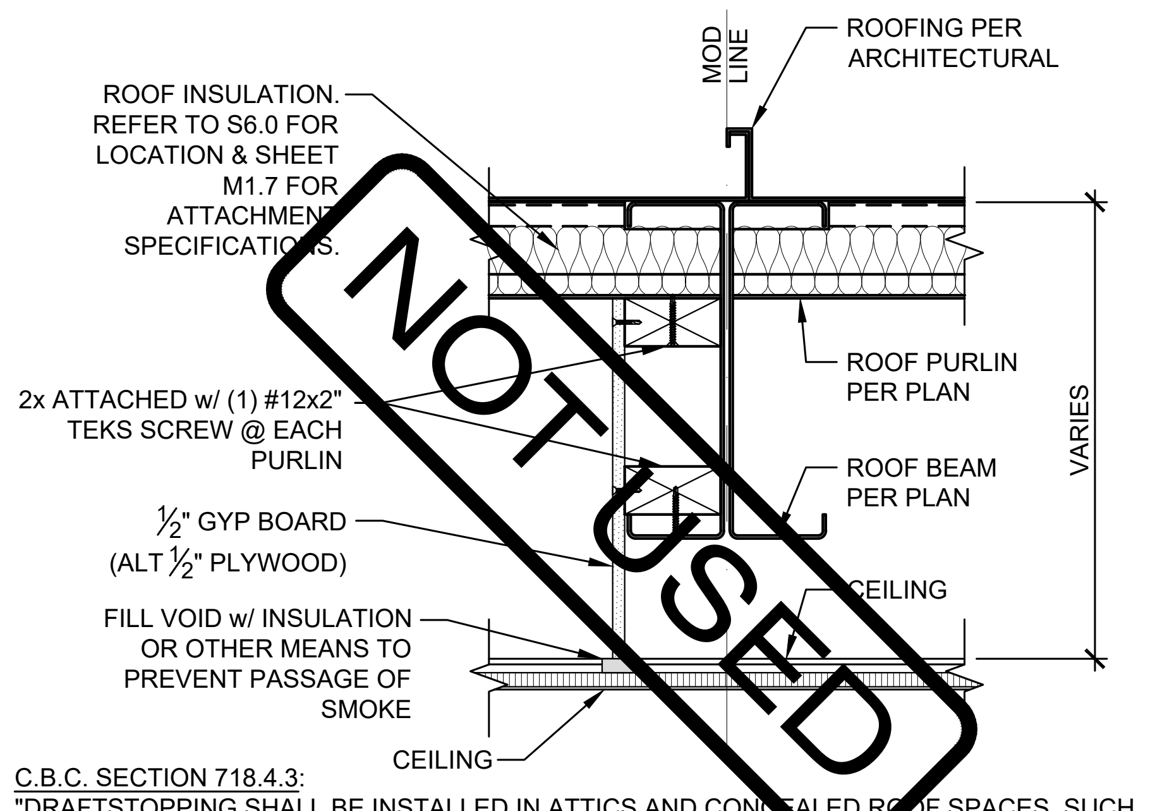

TYP. GRID WIRE HANGER
ONE ADDITIONAL #12 GA WIRE (NOT T-BAR GRID SUPPORT) @ TWO OPPOSITE CORNERS OF FIXTURE ATTACHED TO FRAMING ABOVE
WIRE TO FIXTURE TAB w/ (3) TIGHT TURNS WITHIN 1½" TYP.
HEAVY DUTY GRID PER TABLE A ON SHEET M1.7

PROVIDE (1) #8x¾" SMS THRU GRID TO LIGHT FIXTURE @ 2 MIN. CORNERS

NOTE: FIXTURE WEIGHT LESS THAN OR EQUAL TO 56 LBS

LIGHT FIXTURE ATTACHMENT

NOT TO SCALE 7

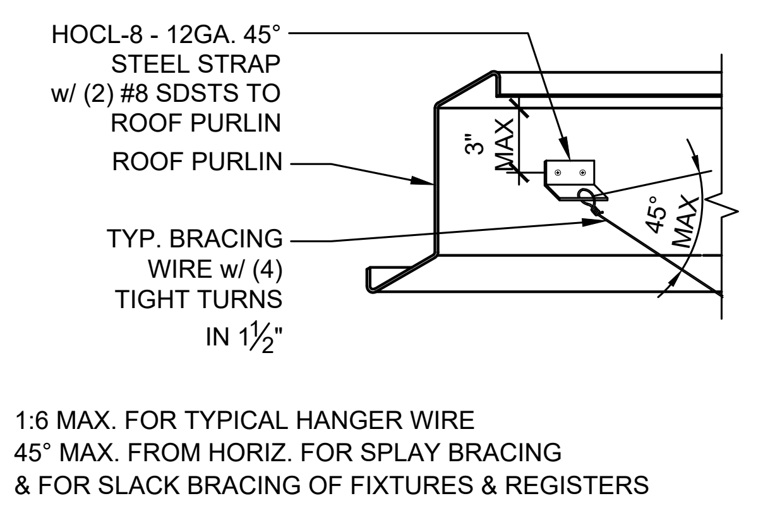

NOT USED
MOD LINE
ROOFING PER ARCHITECTURAL
ROOF INSULATION. REFER TO S6.0 FOR LOCATION & SHEET M1.7 FOR ATTACHMENT SPECIFICATIONS.
ROOF PURLIN PER PLAN
2x ATTACHED w/ (1) #12x2" TEKS SCREW @ EACH PURLIN
ROOF BEAM PER PLAN
VARIES
½" GYP BOARD (ALT ½" PLYWOOD)
CEILING
FILL VOID w/ INSULATION OR OTHER MEANS TO PREVENT PASSAGE OF SMOKE
CEILING

C.B.C. SECTION 718.4.3:
"DRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES, SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3,000 SQUARE FEET."

NOTE EXCEPTION #2:
IN GROUP A, E, H, I, L OCCUPANCIES, WHERE AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 IS INSTALLED, THE AREA BETWEEN DRAFT STOPS MAY BE 9,000 SQUARE FEET AND THE GREATEST HORIZONTAL DISTANCE MAY BE 100 FEET.

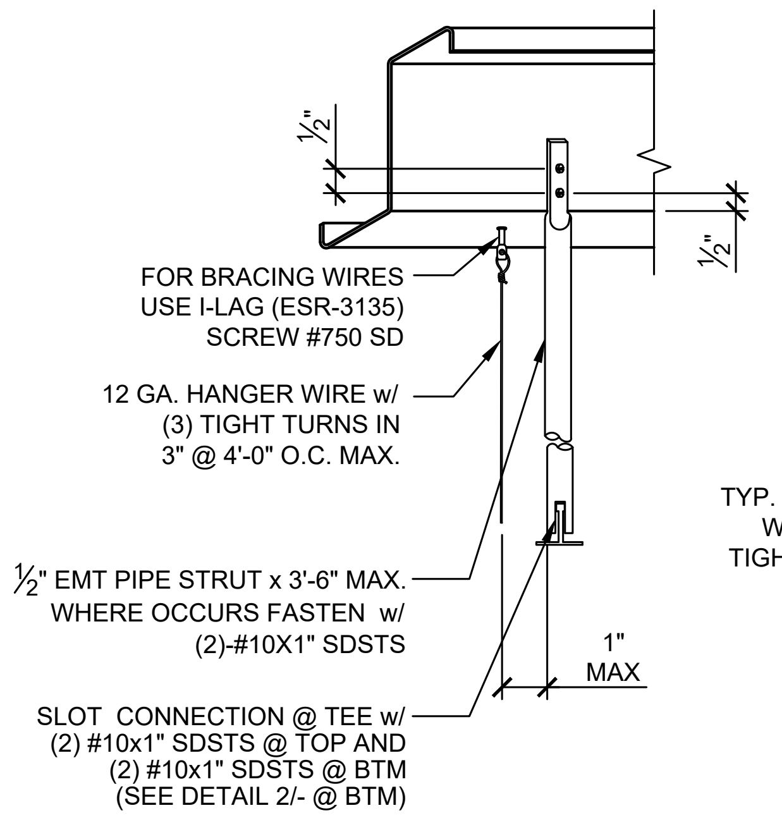
CEILING DRAFT STOP DETAIL

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

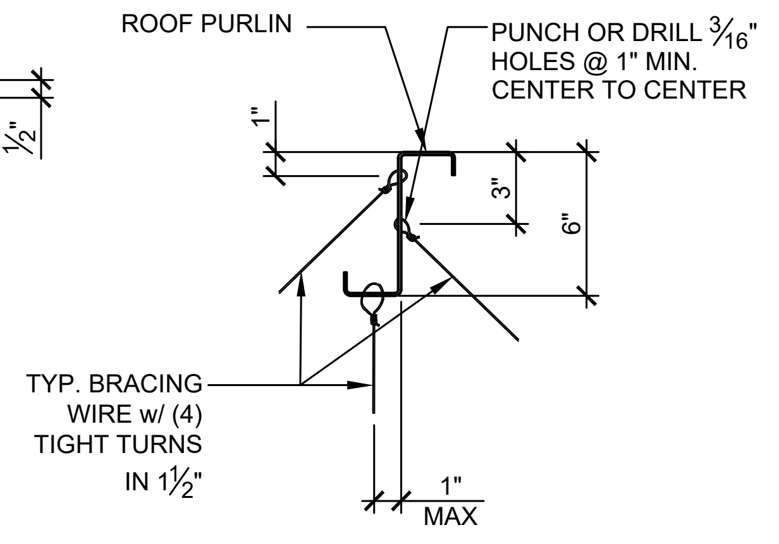

HOCL-8 - 12GA. 45° STEEL STRAP w/ (2) #8 SDSTS TO ROOF PURLIN
ROOF PURLIN
3" MAX
45° MAX
TYP. BRACING WIRE w/ (4) TIGHT TURNS IN 1½"
VARIES

1:6 MAX. FOR TYPICAL HANGER WIRE
45° MAX. FROM HORIZ. FOR SPLAY BRACING
& FOR SLACK BRACING OF FIXTURES & REGISTERS

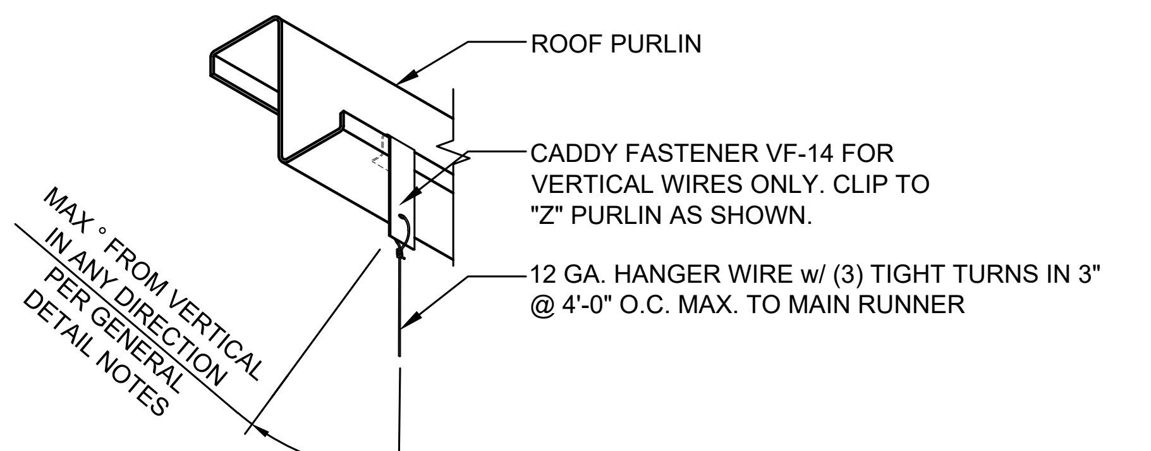
AT STEEL JOIST OR RAFTER


½"
½"
FOR BRACING WIRES USE I-LAG (ESR-3135) SCREW #750 SD
12 GA. HANGER WIRE w/ (3) TIGHT TURNS IN 3" @ 4'-0" O.C. MAX.
½" EMT PIPE STRUT x 3'-6" MAX. WHERE OCCURS FASTEN w/ (2)-#10X1" SDSTS
1" MAX
SLOT CONNECTION @ TEE w/ (2) #10x1" SDSTS @ TOP AND (2) #10x1" SDSTS @ BTM (SEE DETAIL 2/- @ BTM)

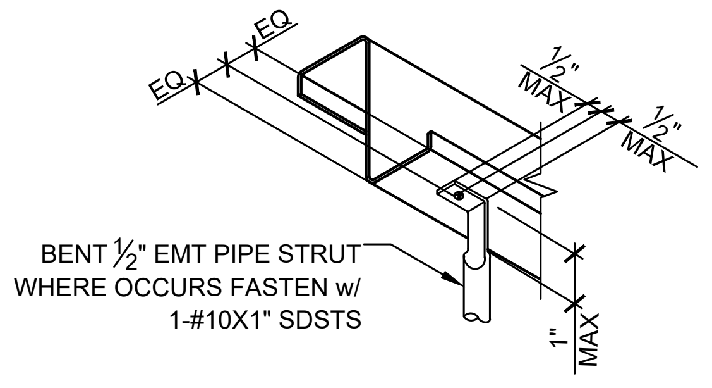
TO BOTTOM OF WEB OF JOIST OR RAFTER


ROOF PURLIN
PUNCH OR DRILL 3/16" HOLES @ 1" MIN. CENTER TO CENTER
1"
3"
6"
TYP. BRACING WIRE w/ (4) TIGHT TURNS IN 1½"
1" MAX

ALTERNATE WIRE CONNECTIONS

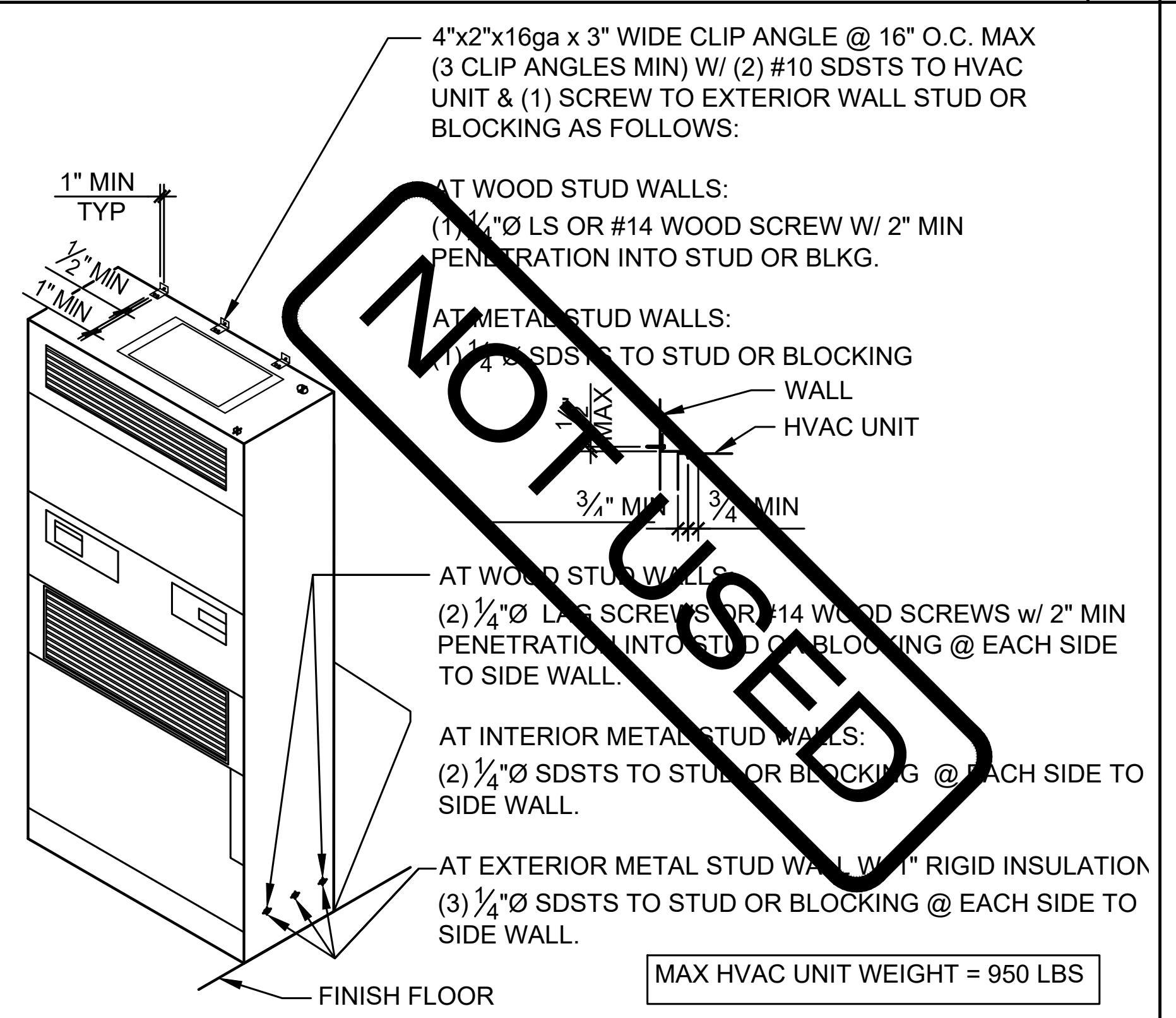

ROOF PURLIN
CADDY FASTENER VF-14 FOR VERTICAL WIRES ONLY. CLIP TO "Z" PURLIN AS SHOWN.
12 GA. HANGER WIRE w/ (3) TIGHT TURNS IN 3" @ 4'-0" O.C. MAX. TO MAIN RUNNER
MAX ° FROM VERTICAL IN ANY DIRECTION PER GENERAL DETAIL NOTES

ALTERNATE WIRE CONNECTIONS


EQ
EQ
½" MAX
½" MAX
BENT ½" EMT PIPE STRUT WHERE OCCURS FASTEN w/ 1-#10X1" SDSTS
1" MAX

TO BOTTOM OF JOIST OR RAFTER

GENERAL DETAIL NOTES:
1. TYPICAL HANGER WIRES & VERTICAL STRUTS SHALL BE INSTALLED AT A MAXIMUM 1:6 ANGLE FROM VERTICAL.
2. TYPICAL SPLAY BRACING WIRES & WIRES FOR SLACK BRACING OF FIXTURES OR REGISTERS SHALL BE INSTALLED AT A MAXIMUM 45° ANGLE FROM THE SURFACE TO WHICH THEY ARE ATTACHED.

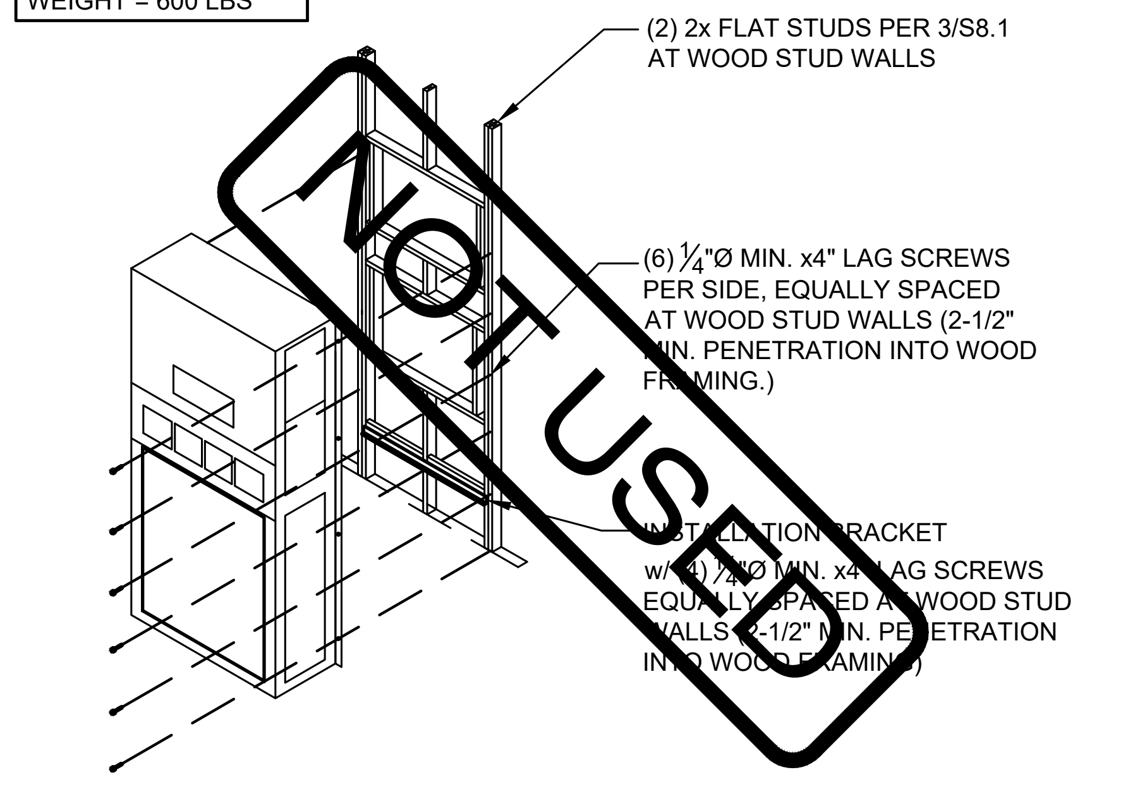

NOT USED
1" MIN TYP
½" MIN
1" MIN
4"x2"x16ga x 3" WIDE CLIP ANGLE @ 16" O.C. MAX (3 CLIP ANGLES MIN) W/ (2) #10 SDSTS TO HVAC UNIT & (1) SCREW TO EXTERIOR WALL STUD OR BLOCKING AS FOLLOWS:
AT WOOD STUD WALLS: (1) ¼"Ø LS OR #14 WOOD SCREW W/ 2" MIN PENETRATION INTO STUD OR BLKG.
AT METAL STUD WALLS: (1) ¼"Ø SDSTS TO STUD OR BLOCKING
WALL
HVAC UNIT
1" MAX
¾" MIN
¾" MIN
AT WOOD STUD WALLS: (2) ¼"Ø LAG SCREWS OR #14 WOOD SCREWS w/ 2" MIN PENETRATION INTO STUD OR BLOCKING @ EACH SIDE TO SIDE WALL.
AT INTERIOR METAL STUD WALLS: (2) ¼"Ø SDSTS TO STUD OR BLOCKING @ EACH SIDE TO SIDE WALL.
AT EXTERIOR METAL STUD WALL W/ 1" RIGID INSULATION (3) ¼"Ø SDSTS TO STUD OR BLOCKING @ EACH SIDE TO SIDE WALL.
FINISH FLOOR

MAX HVAC UNIT WEIGHT = 950 LBS

INTERIOR HVAC ANCHORAGE

NOT TO SCALE 9

MAX HVAC UNIT WEIGHT = 600 LBS


NOT USED
(2) 2x FLAT STUDS PER 3/S8.1 AT WOOD STUD WALLS
(6) ¼"Ø MIN. x4" LAG SCREWS PER SIDE, EQUALLY SPACED AT WOOD STUD WALLS (2-1/2" MIN. PENETRATION INTO WOOD FRAMING.)
INSTALLATION BRACKET w/ (4) ¼"Ø MIN. x4" LAG SCREWS EQUALLY SPACED AT WOOD STUD WALLS (2-1/2" MIN. PENETRATION INTO WOOD FRAMING)

WALL MOUNT HVAC ANCHORAGE

NOT TO SCALE 10

NOT USED

11

SUSPENDED CEILING TO PURLIN CONNECTION DETAILS

NOT TO SCALE 12

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

FORM®

SITE SPECIFIC PROJECT NAME
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RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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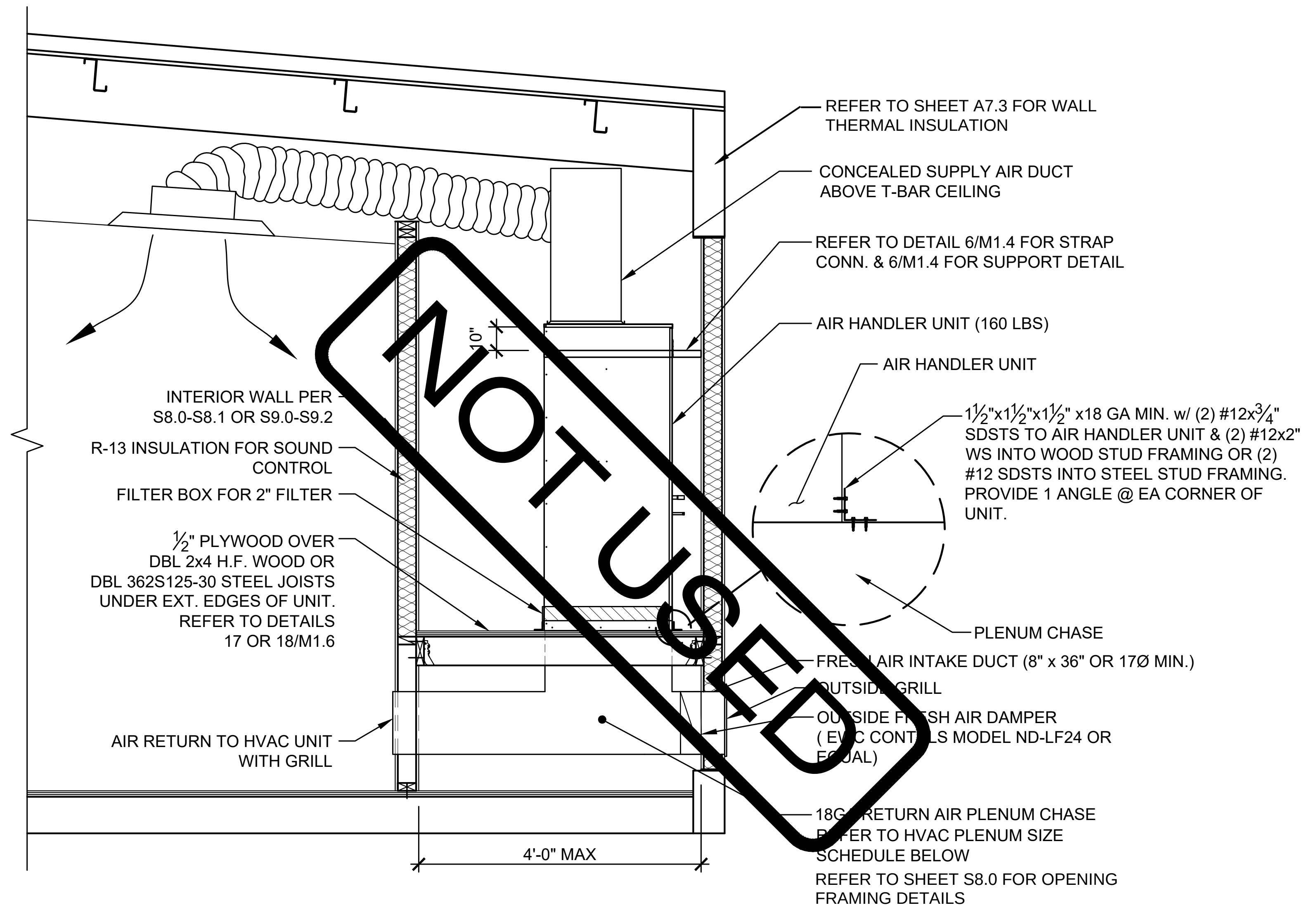
PROJECT NO:	XXXX-XX

SHEET TITLE:
MECHANICAL
AND CEILING
DETAILS

SHEET NUMBER:
M1.4

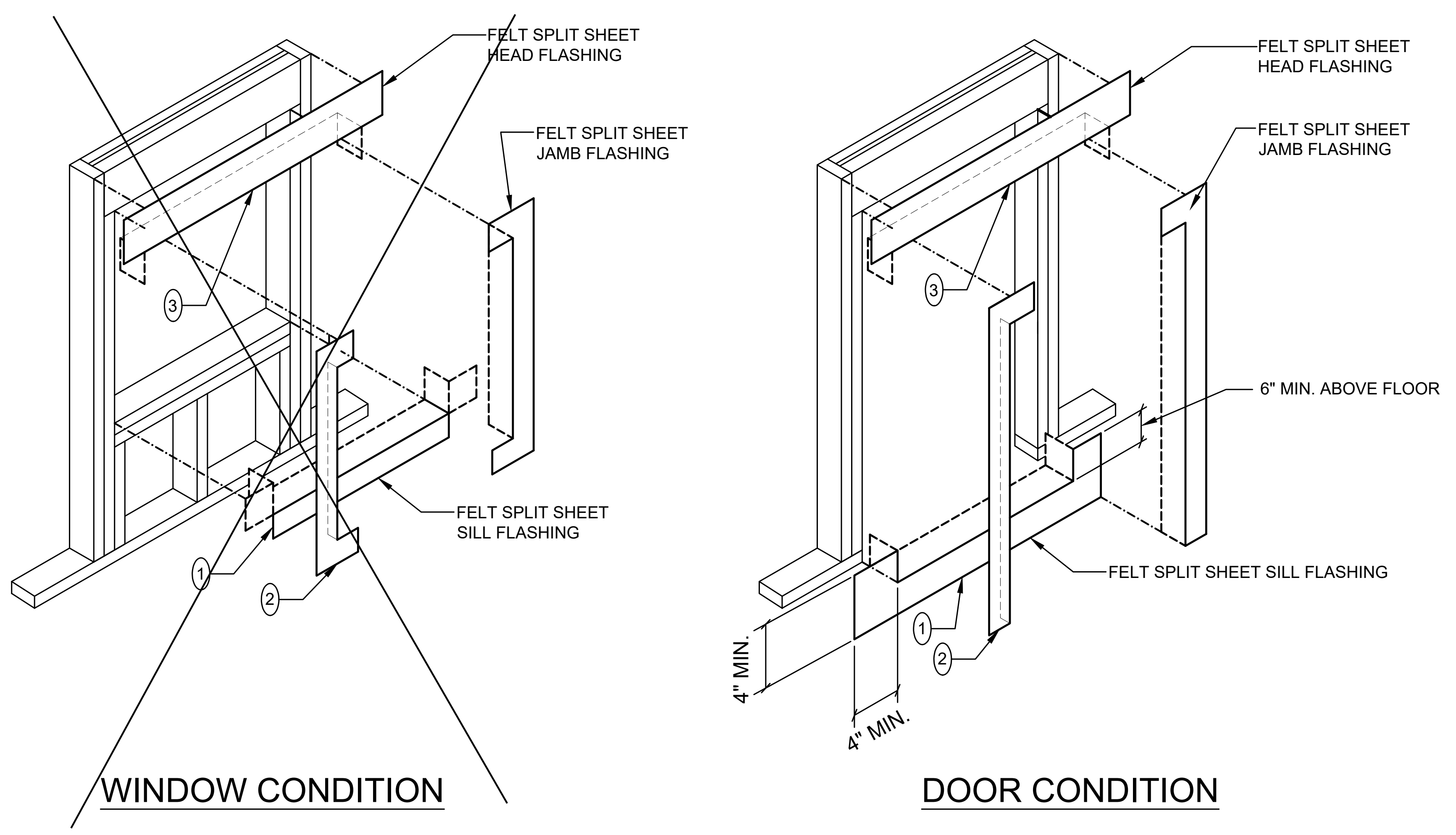

REFER TO SHEET A7.3 FOR WALL THERMAL INSULATION
CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING
REFER TO DETAIL 6/M1.4 FOR STRAP CONN. & 6/M1.4 FOR SUPPORT DETAIL
AIR HANDLER UNIT (160 LBS)
AIR HANDLER UNIT
1½"x1½"x1½" x18 GA MIN. w/ (2) #12x¾" SDSTS TO AIR HANDLER UNIT & (2) #12x2" WS INTO WOOD STUD FRAMING OR (2) #12 SDSTS INTO STEEL STUD FRAMING. PROVIDE 1 ANGLE @ EA CORNER OF UNIT.
10"
INTERIOR WALL PER S8.0-S8.1 OR S9.0-S9.2
R-13 INSULATION FOR SOUND CONTROL
FILTER BOX FOR 2" FILTER
½" PLYWOOD OVER DBL 2x4 H.F. WOOD OR DBL 362S125-30 STEEL JOISTS UNDER EXT. EDGES OF UNIT. REFER TO DETAILS 17 OR 18/M1.6
PLENUM CHASE
FRESH AIR INTAKE DUCT (8" x 36" OR 17Ø MIN.)
OUTSIDE GRILL
OUTSIDE FRESH AIR DAMPER (EVAC CONTROLS MODEL ND-LF24 OR EQUAL)
AIR RETURN TO HVAC UNIT WITH GRILL
18GA RETURN AIR PLENUM CHASE REFER TO HVAC PLENUM SIZE SCHEDULE BELOW
REFER TO SHEET S8.0 FOR OPENING FRAMING DETAILS
4'-0" MAX
NOT USED

HVAC PLENUM SIZE SCHEDULE		
HVAC SIZE	MIN RETURN SIZE	MIN SUPPLY SIZE
3 TON	19¼"x11"	19¼"x11"
3 1/2" TON	19¼"x12"	19¼"x12"
4 TON	22¼"x12"	22¼"x12"
5 TON	22¼"x14"	22¼"x14"

NOTE: OUTSIDE AIR DUCT MUST INCLUDE A DAMPER THAT WILL FULLY CLOSE WHEN INDOOR FAN SHUTS DOWN PER SECTION 120.2(F).

SPLIT SYSTEM CROSS SECTION

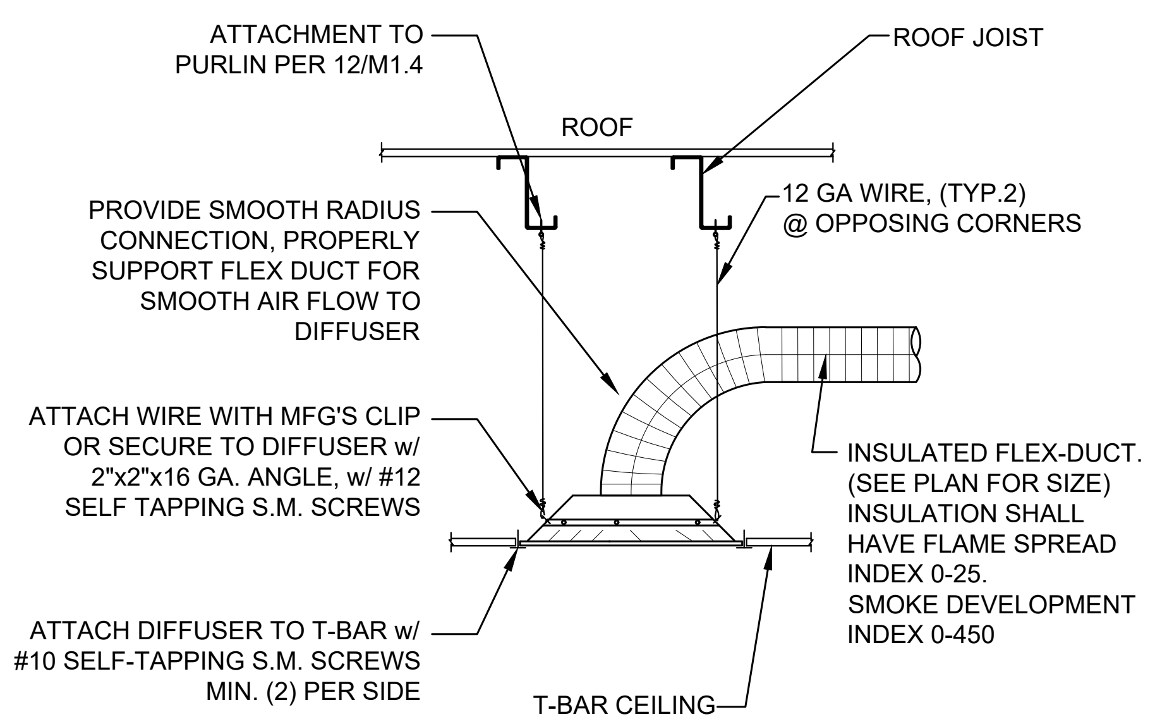
SCALE: 1/2" = 1'-0" | 1


FELT SPLIT SHEET HEAD FLASHING
FELT SPLIT SHEET JAMB FLASHING
FELT SPLIT SHEET SILL FLASHING
3
1
2
WINDOW CONDITION
FELT SPLIT SHEET HEAD FLASHING
FELT SPLIT SHEET JAMB FLASHING
6" MIN. ABOVE FLOOR
FELT SPLIT SHEET SILL FLASHING
4" MIN.
4" MIN.
DOOR CONDITION

(#) = SEQUENCE OF ORDER

FLASHING @ WALL OPENINGS

NOT TO SCALE | 2

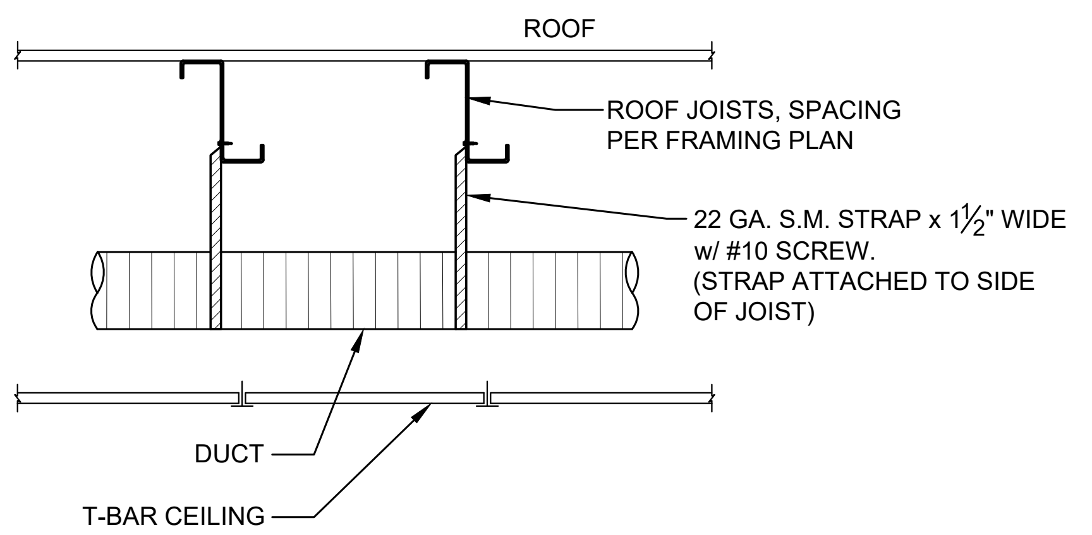

ATTACHMENT TO PURLIN PER 12/M1.4
ROOF JOIST
ROOF
12 GA WIRE, (TYP.2) @ OPPOSING CORNERS
PROVIDE SMOOTH RADIUS CONNECTION, PROPERLY SUPPORT FLEX DUCT FOR SMOOTH AIR FLOW TO DIFFUSER
ATTACH WIRE WITH MFG'S CLIP OR SECURE TO DIFFUSER w/ 2"x2"x16 GA. ANGLE, w/ #12 SELF TAPPING S.M. SCREWS
INSULATED FLEX-DUCT. (SEE PLAN FOR SIZE) INSULATION SHALL HAVE FLAME SPREAD INDEX 0-25. SMOKE DEVELOPMENT INDEX 0-450
ATTACH DIFFUSER TO T-BAR w/ #10 SELF-TAPPING S.M. SCREWS MIN. (2) PER SIDE
T-BAR CEILING

REGISTER MOUNTING DETAIL

NOT TO SCALE | 7

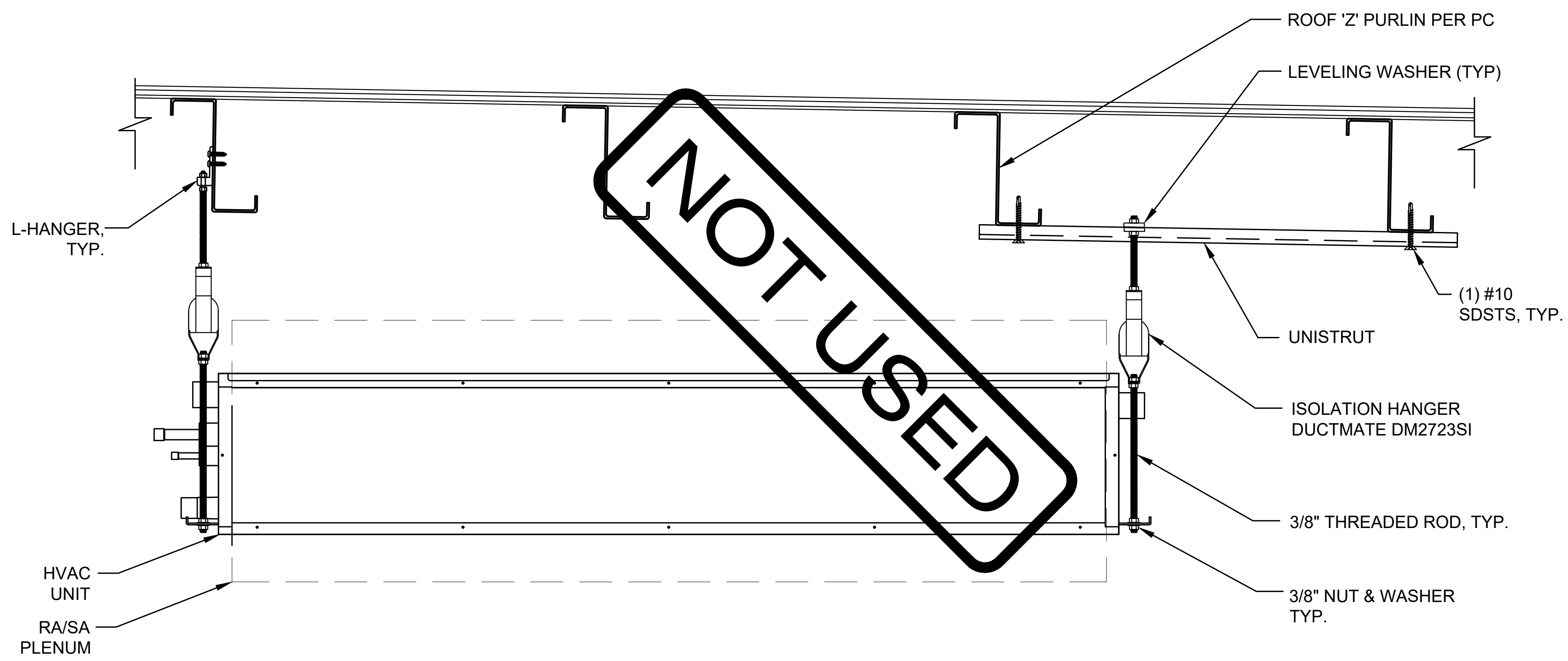
NOTES:

1. DUCTWORK SHALL BE SUPPORTED FROM ROOF JOISTS AT 4'-0" O.C.MAX TO ELIMINATE SAGGING.
2. FLEX DUCT (5'-0" MAX LENGTH) SHALL BE PULLED TIGHT TO ELIMINATE SAGGING.
3. DUCT TO PLENUM ATTACHMENT SHALL BE (3) #8 SCREWS & COVERED WITH 367-17 TAPE (UL181B-FX).
4. FOR DUCT ATTACHMENT TO DIFFUSER - SEE DETAIL 7/-.
5. ALL DUCTS TO BE SEALED WITH 367 MASTIC TAPE. OUTSIDE OF THE INSULATING LINER ON THE FLEX DUCT TO BE SEALED WITH 558CA CODE APPROVED DUCT TAPE.


ROOF
ROOF JOISTS, SPACING PER FRAMING PLAN
22 GA. S.M. STRAP x 1½" WIDE w/ #10 SCREW. (STRAP ATTACHED TO SIDE OF JOIST)
DUCT
T-BAR CEILING

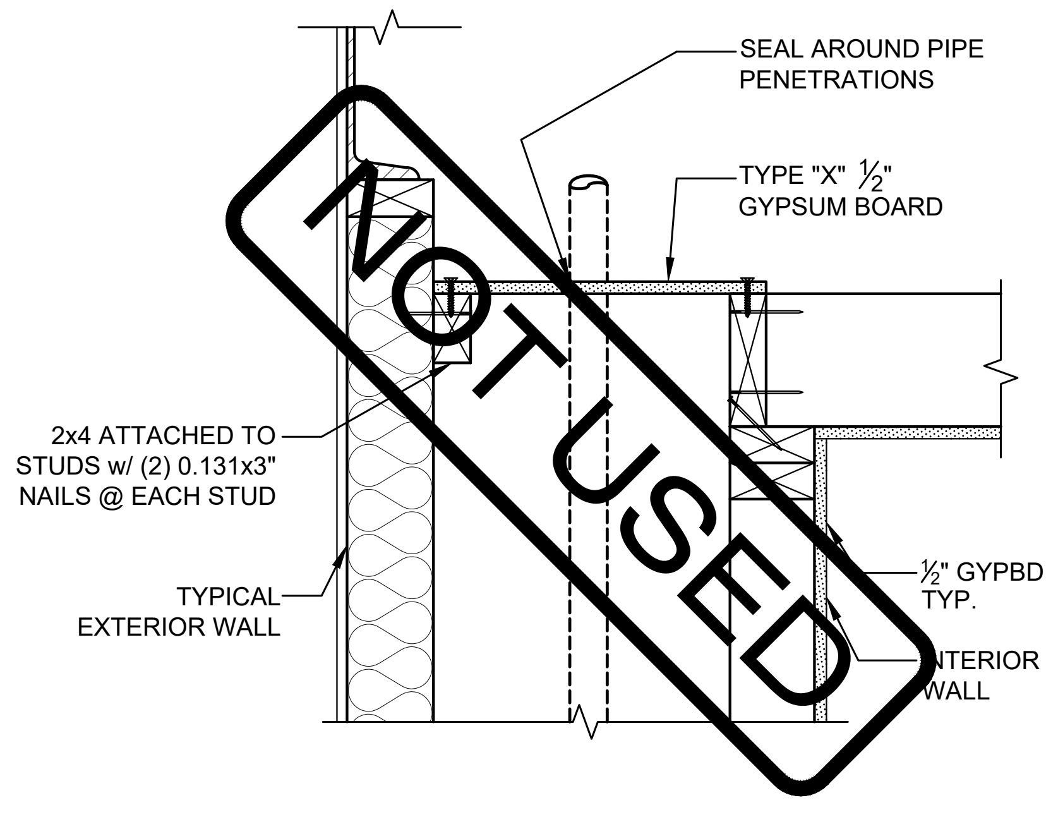
FLEX DUCTING SUPPORT DETAIL

NOT TO SCALE | 8



HVAC ATTIC MOUNTED SPLIT SYSTEM

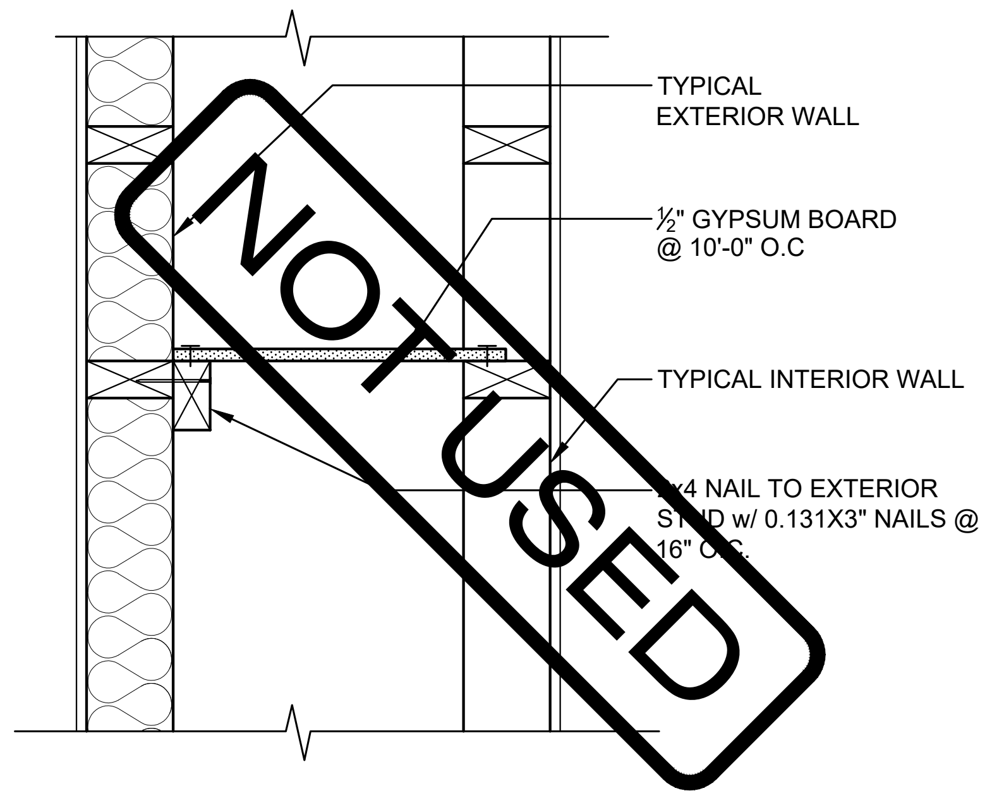
NOT TO SCALE | 3



NOTE:
REFER TO DETAILS 8/M1.6 AND 13/M1.6 FOR ADDITIONAL FRAMING DETAILS

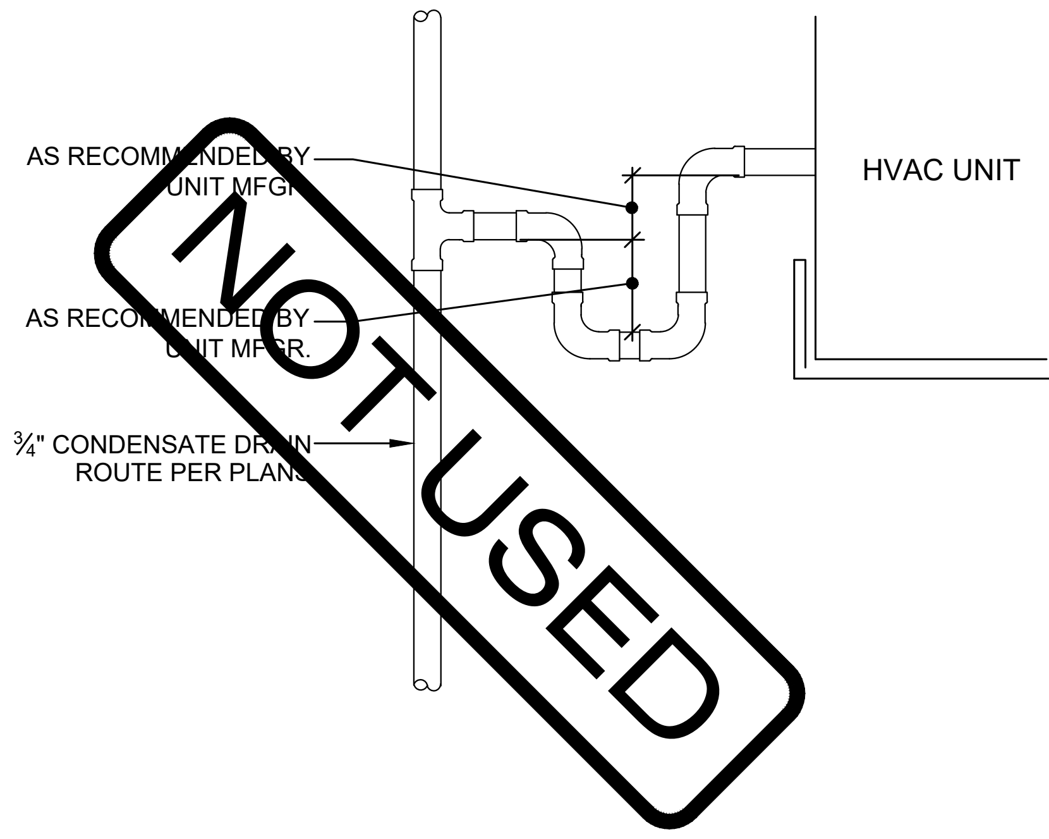
DRAFT STOP @ PLUMBING CHASE

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


TYPICAL EXTERIOR WALL
½" GYPSUM BOARD @ 10'-0" O.C
TYPICAL INTERIOR WALL
2x4 NAIL TO EXTERIOR STUD w/ 0.131X3" NAILS @ 16" O.C.
NOT USED
PLAN VIEW

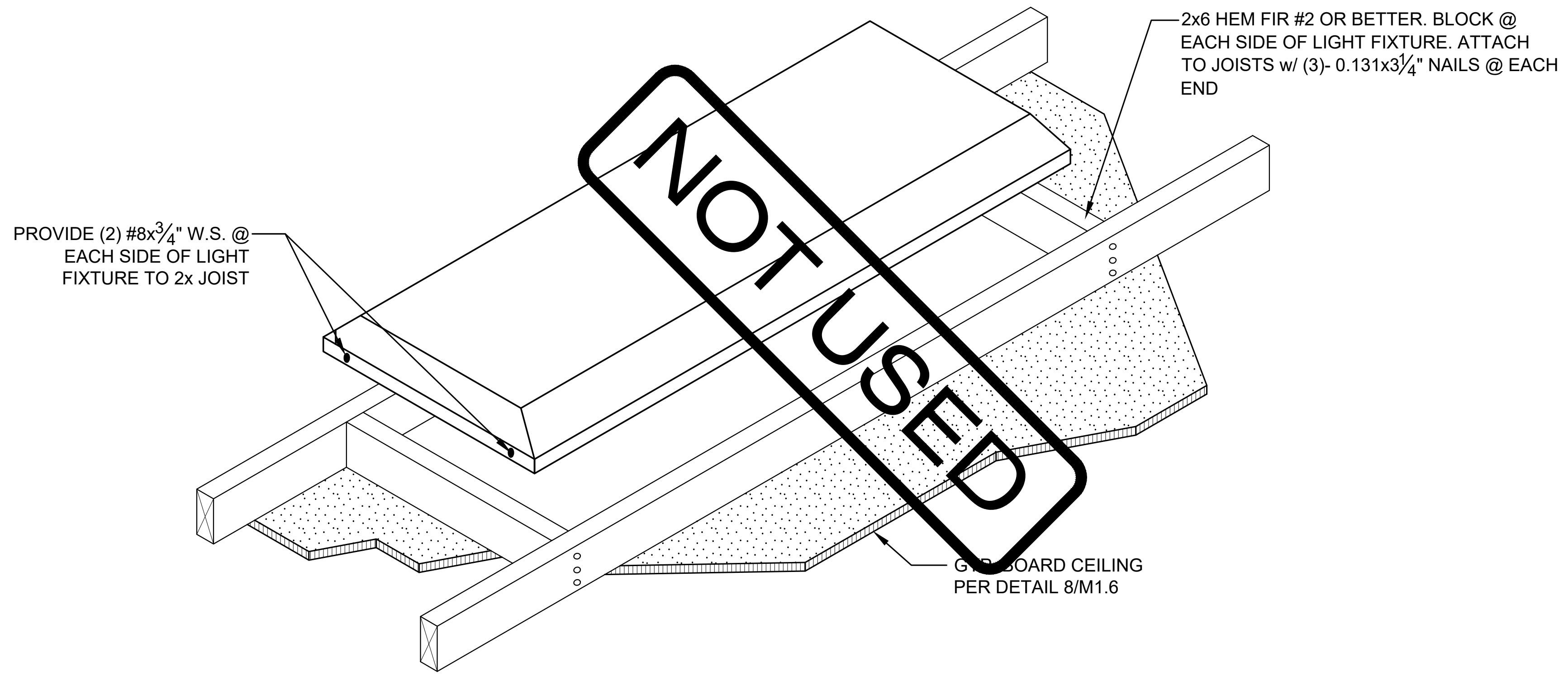
DRAFT STOP @ PLUMBING CHASE

SCALE: 1" = 1'-0" | 5


AS RECOMMENDED BY UNIT MFGR.
AS RECOMMENDED BY UNIT MFGR.
¾" CONDENSATE DRAIN ROUTE PER PLANS
HVAC UNIT
NOT USED

CONDENSATE DETAIL

NOT TO SCALE | 9


2x6 HEM FIR #2 OR BETTER. BLOCK @ EACH SIDE OF LIGHT FIXTURE. ATTACH TO JOISTS w/ (3)- 0.131x3¼" NAILS @ EACH END
PROVIDE (2) #8x¾" W.S. @ EACH SIDE OF LIGHT FIXTURE TO 2x JOIST
GYP. BOARD CEILING PER DETAIL 8/M1.6
NOT USED

LIGHT FIXTURE ATTACHMENT DETAIL

NOT TO SCALE | 6A

NOT USED

6B

NOT USED

10

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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME

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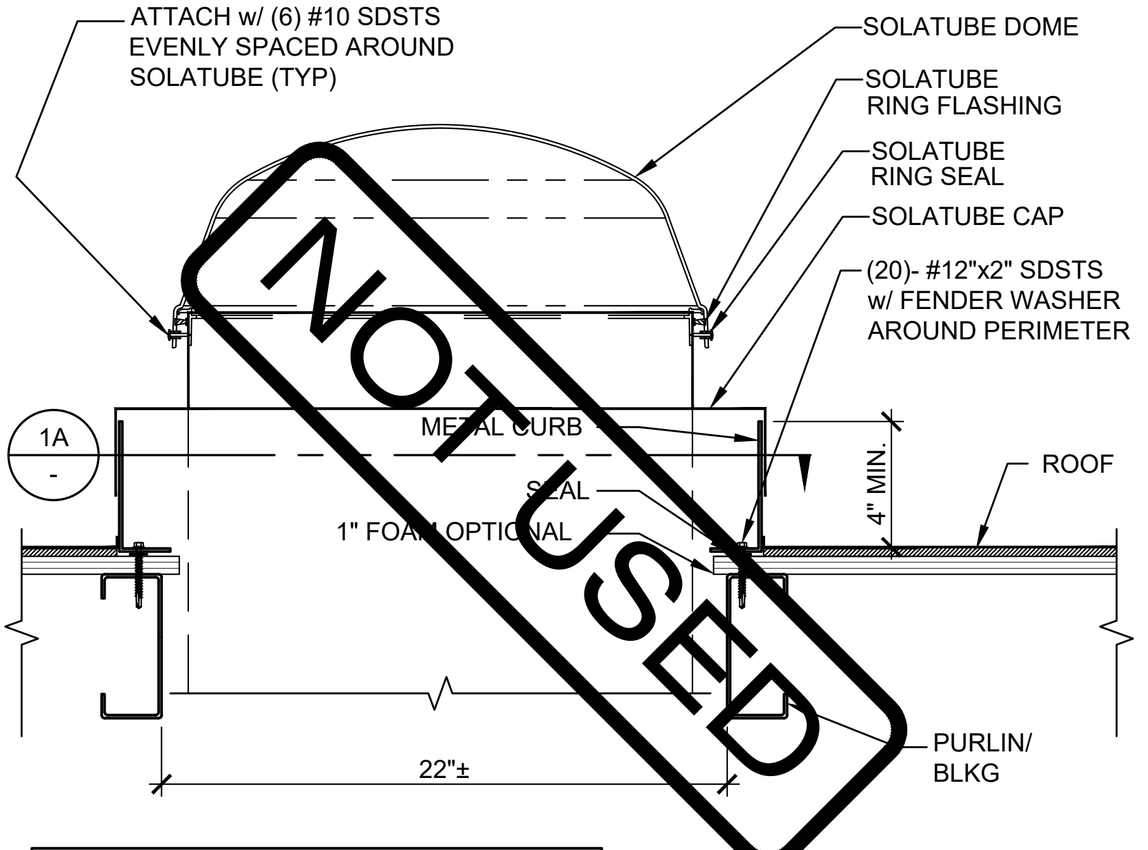
MECHANICAL
& CEILING
DETAILS

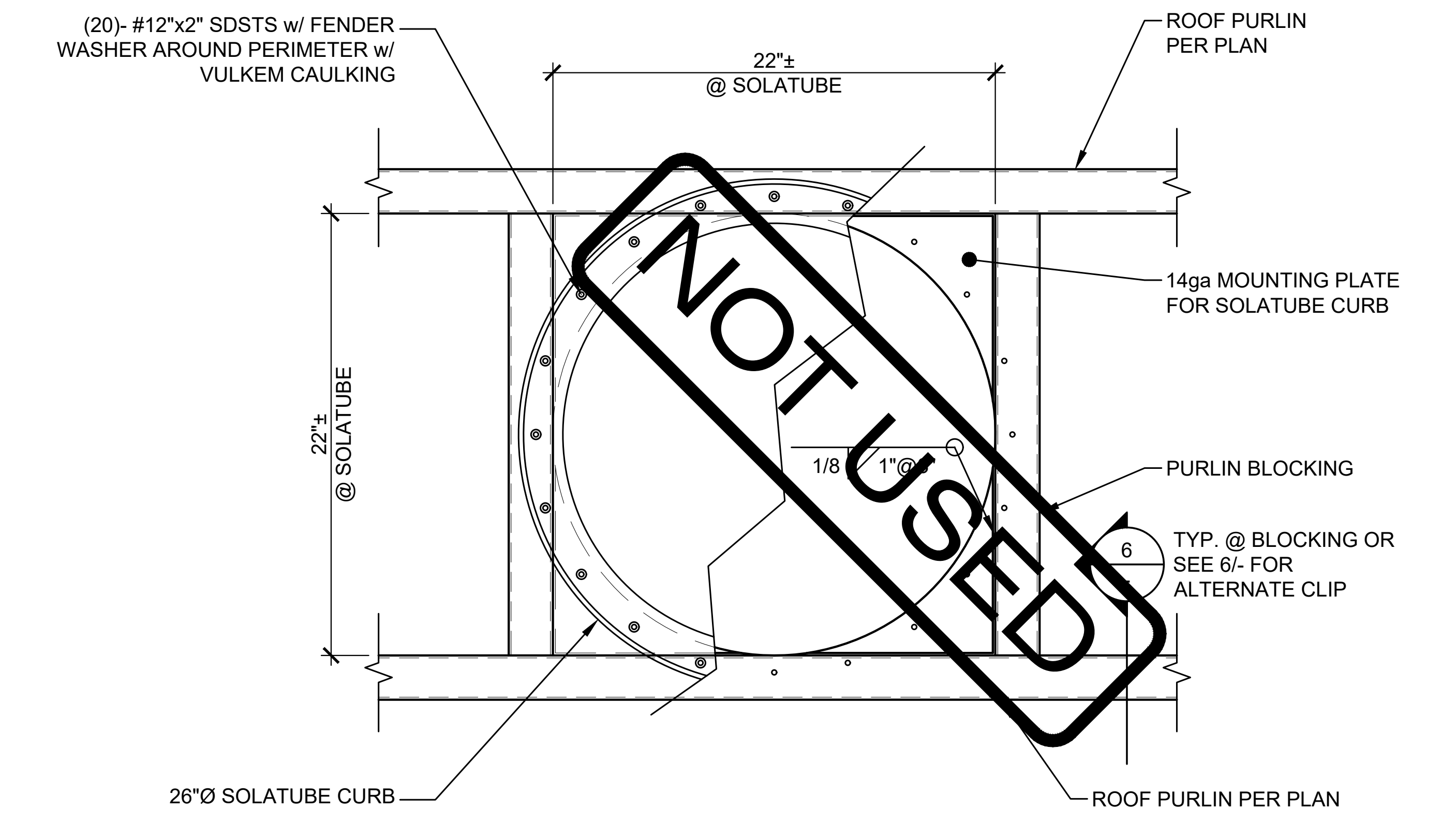
SHEET NUMBER:

M1.5

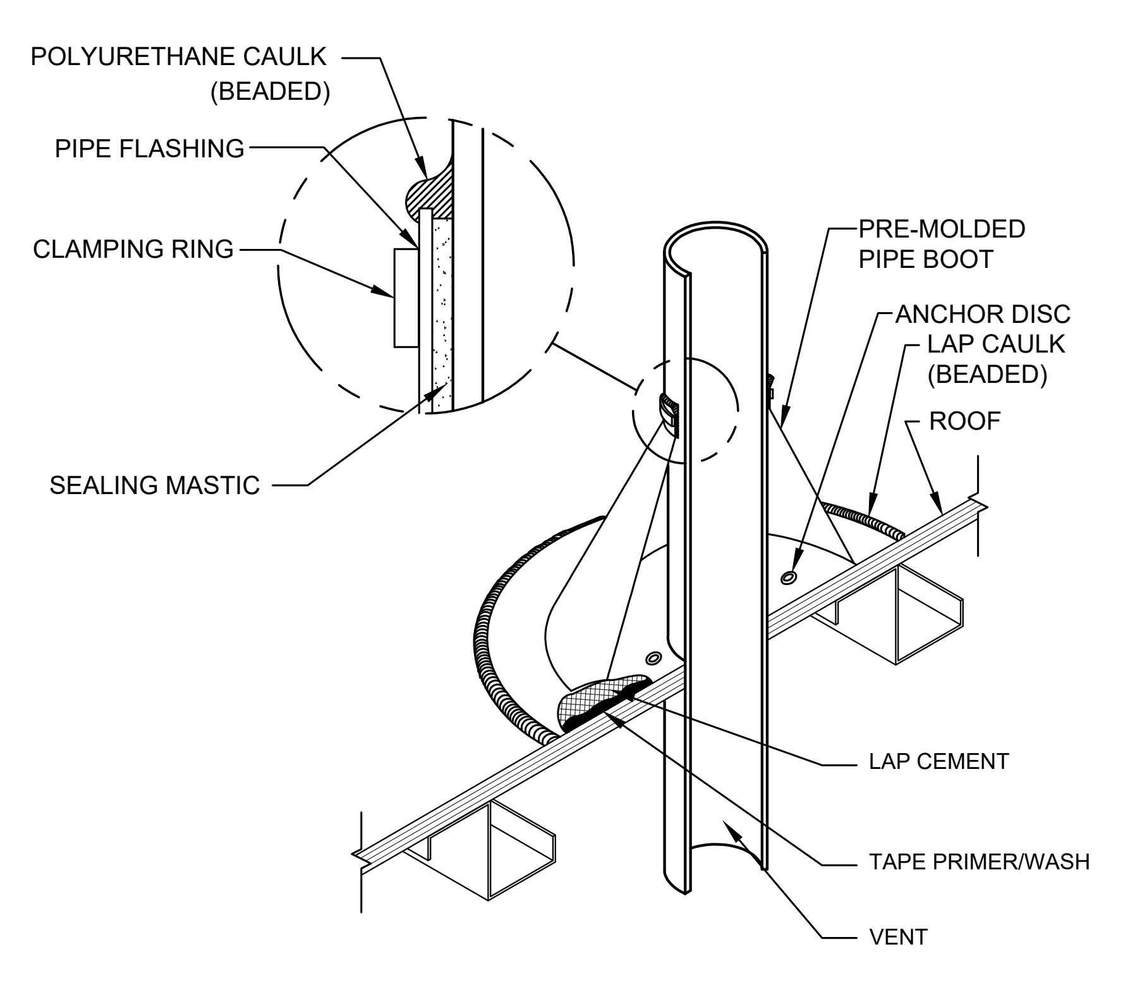


DOMED SKYLIGHTS SHALL COMPLY WITH C.B.C. SECTIONS 2405.5 & 2610, AND AAMA/WDMA/CSA 101/I.S./A440.

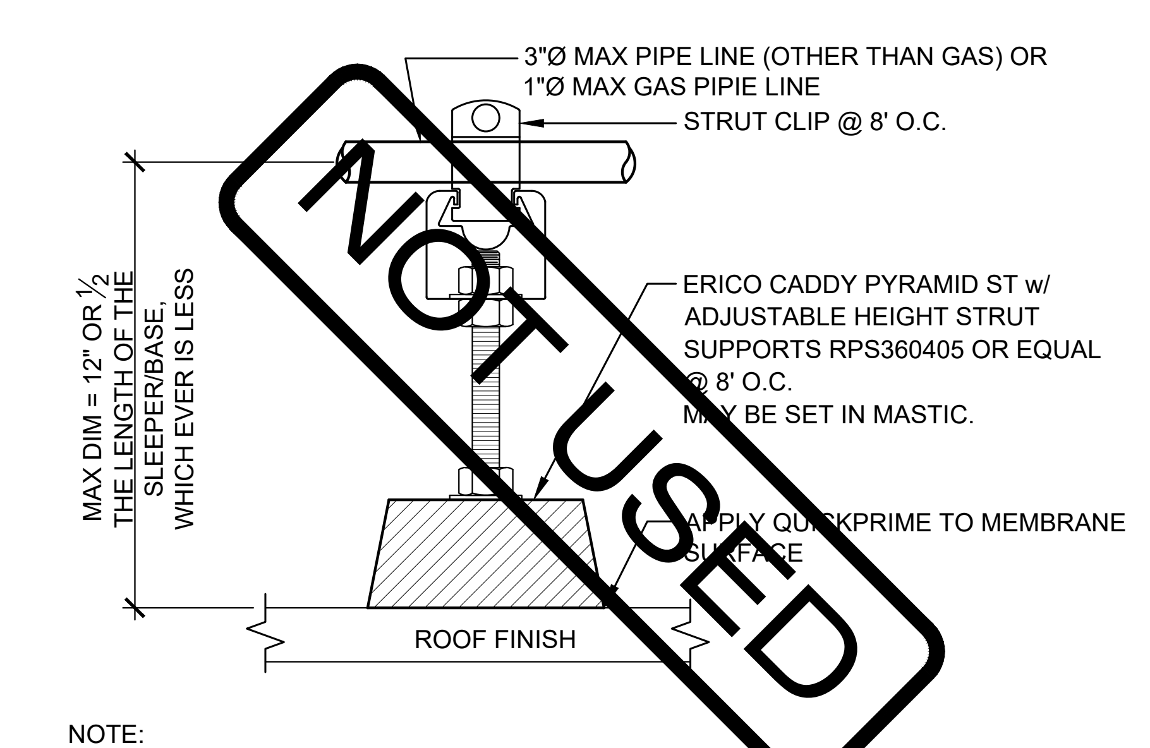
SOLATUBE ATTACHMENT DETAIL SCALE: 1-1/2" = 1'-0" **1**


(20)- #12"x2" SDSTS w/ FENDER WASHER AROUND PERIMETER w/ VULKEM CAULKING
22"± @ SOLATUBE
ROOF PURLIN PER PLAN
14ga MOUNTING PLATE FOR SOLATUBE CURB
22"± @ SOLATUBE
1/8"
1"
PURLIN BLOCKING
6
TYP. @ BLOCKING OR SEE 6/- FOR ALTERNATE CLIP
26"Ø SOLATUBE CURB
ROOF PURLIN PER PLAN
NOT USED

SOLATUBE CURB ATTACHMENT DETAIL SCALE: 1-1/2" = 1'-0" **1A**

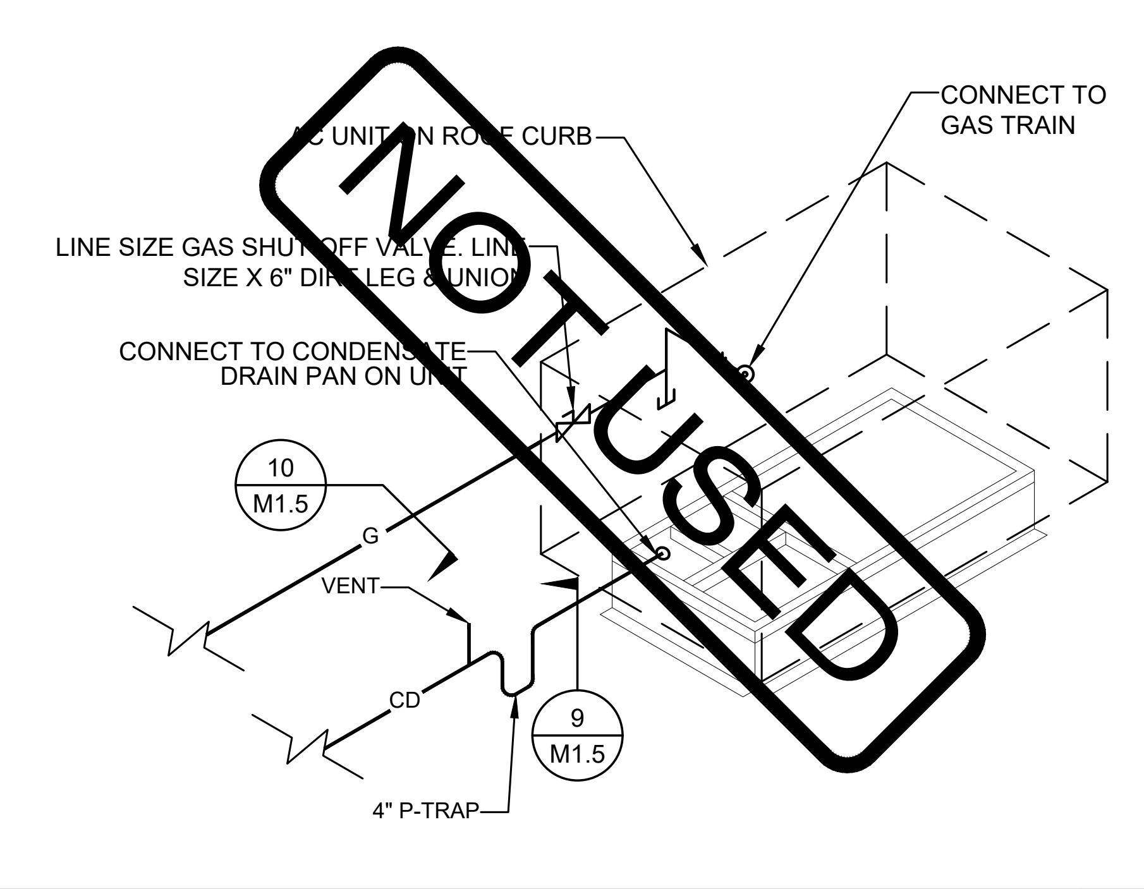


VENT THRU ROOF PENETRATION DETAIL NOT TO SCALE **2**

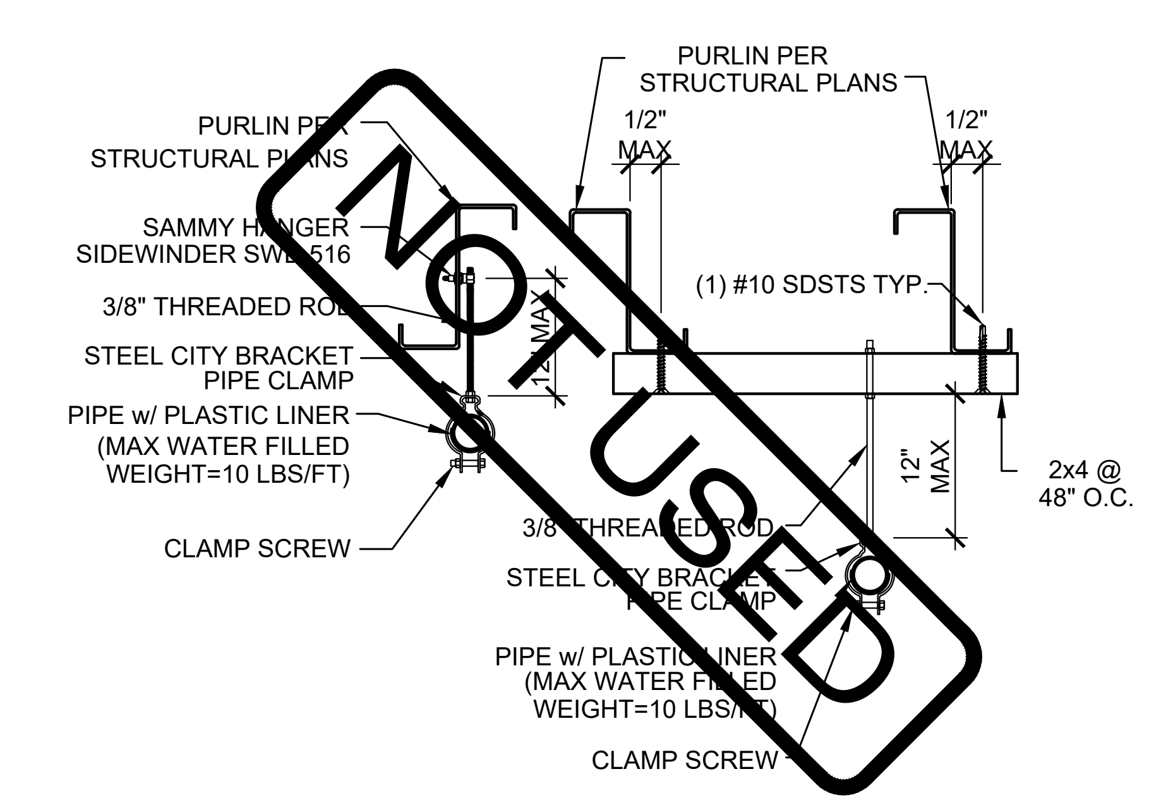

3"Ø MAX PIPE LINE (OTHER THAN GAS) OR 1"Ø MAX GAS PIPIE LINE
STRUT CLIP @ 8' O.C.
ERICO CADDY PYRAMID ST w/ ADJUSTABLE HEIGHT STRUT SUPPORTS RPS360405 OR EQUAL @ 8' O.C. MAY BE SET IN MASTIC.
APPLY QUICKPRIME TO MEMBRANE SURFACE
MAX DIM = 12" OR ½ THE LENGTH OF THE SLEEPERBASE, WHICH EVER IS LESS
ROOF FINISH
NOT USED

NOTE:
IF PIPE LINE SPANS GREATER THAN 16'-0" BETWEEN THE WALL SUPPORT AND THE HVAC UNIT, POSITIVE ATTACHMENT MUST BE PROVIDED BETWEEN THE BLOCK AND THE METAL ROOF

ROOF-TOP PIPE SUPPORT BLOCK SCALE: NOT USED **3**

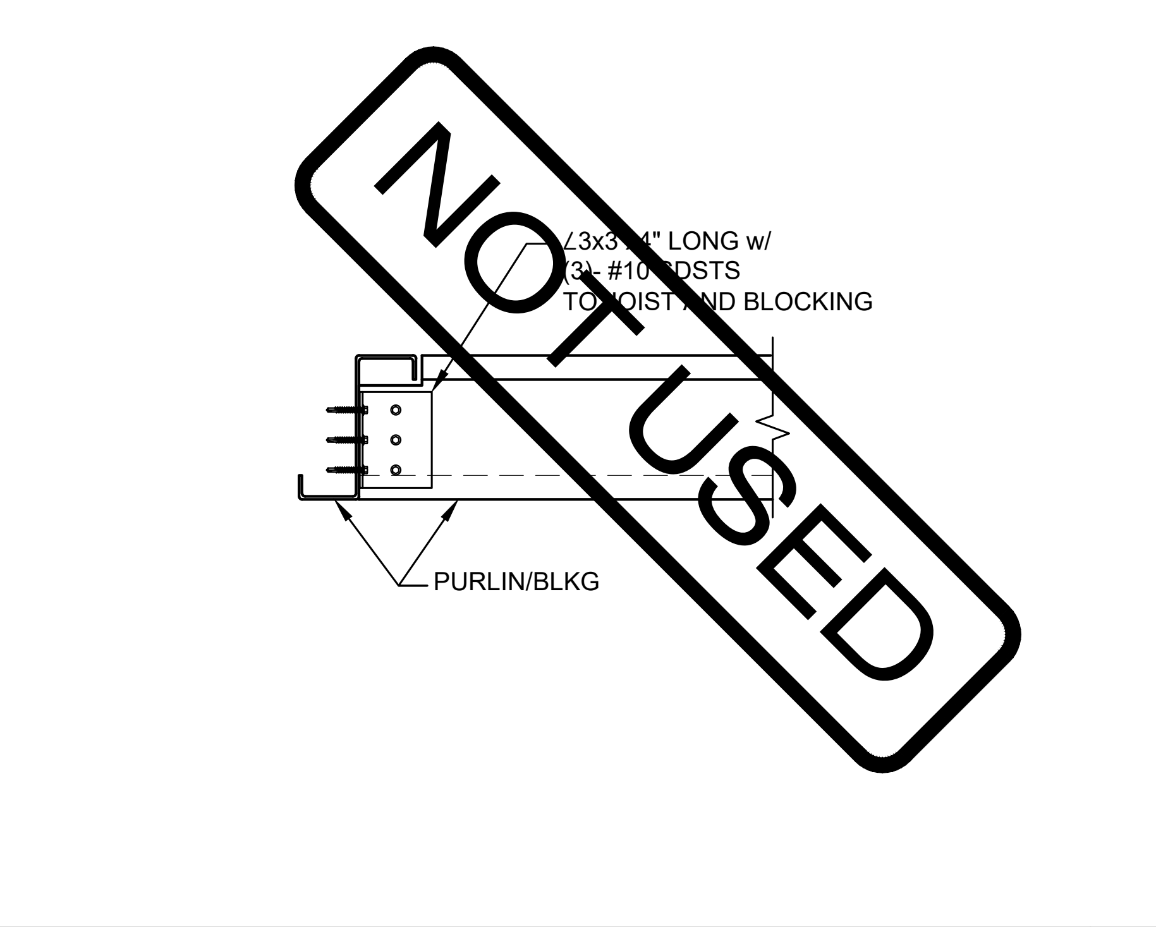

AC UNIT ON ROOF CURB
CONNECT TO GAS TRAIN
LINE SIZE GAS SHUT OFF VALVE. LINE SIZE X 6" DIRT LEG & UNION
CONNECT TO CONDENSATE DRAIN PAN ON UNIT
10
M1.5
G
VENT
CD
9
M1.5
4" P-TRAP
NOT USED

HVAC UNIT PIPING NOT TO SCALE **4**

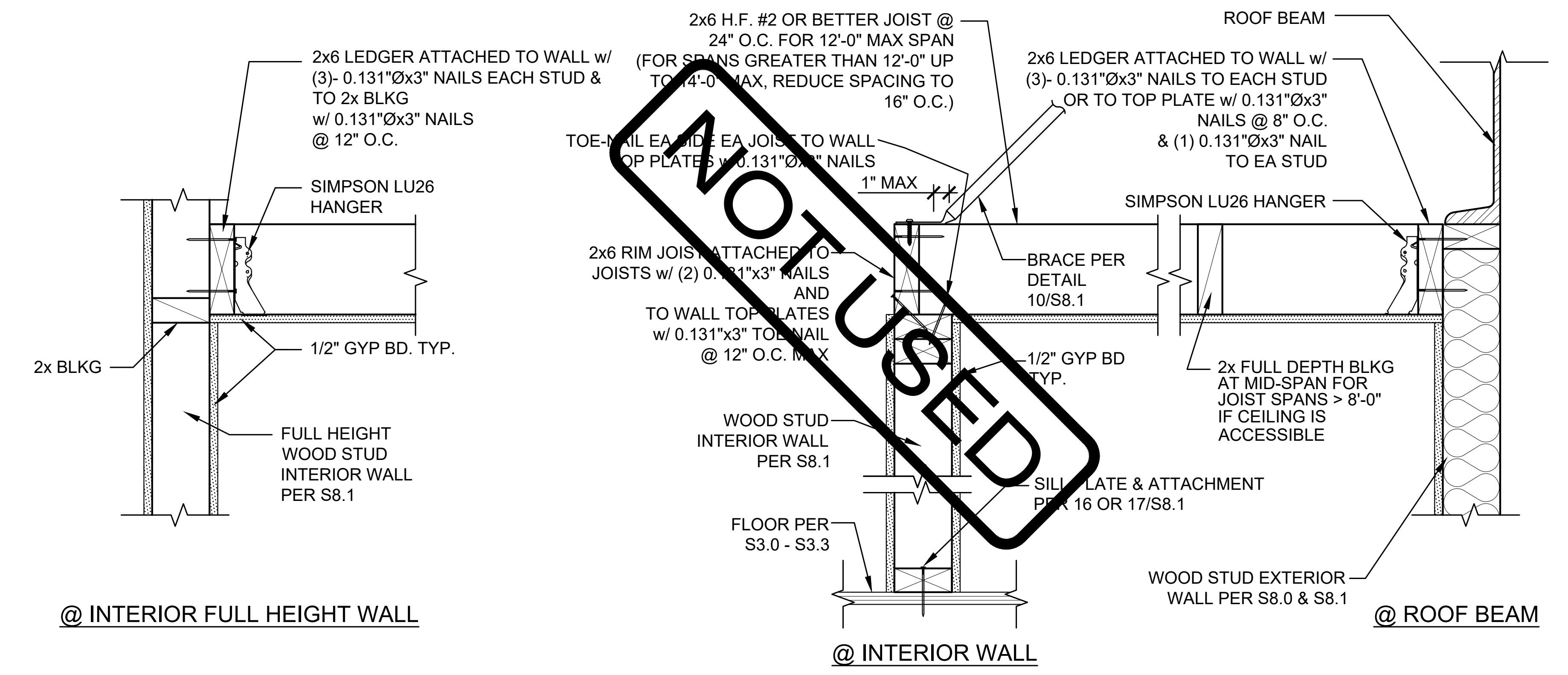

PURLIN PER STRUCTURAL PLANS
1/2" MAX
1/2" MAX
PURLIN PER STRUCTURAL PLANS
SAMMY HANGER SIDEWINDER SWB 516
(1) #10 SDSTS TYP.
3/8" THREADED ROD
STEEL CITY BRACKET PIPE CLAMP
PIPE w/ PLASTIC LINER (MAX WATER FILLED WEIGHT=10 LBS/FT)
12" MAX
12" MAX
2x4 @ 48" O.C.
CLAMP SCREW
3/8" THREADED ROD
STEEL CITY BRACKET PIPE CLAMP
PIPE w/ PLASTIC LINER (MAX WATER FILLED WEIGHT=10 LBS/FT)
CLAMP SCREW
NOT USED

NOTES:
50 LBS MAXIMUM LOAD PER HANGER
100 LBS MAXIMUM LOAD PER ROOF PURLIN

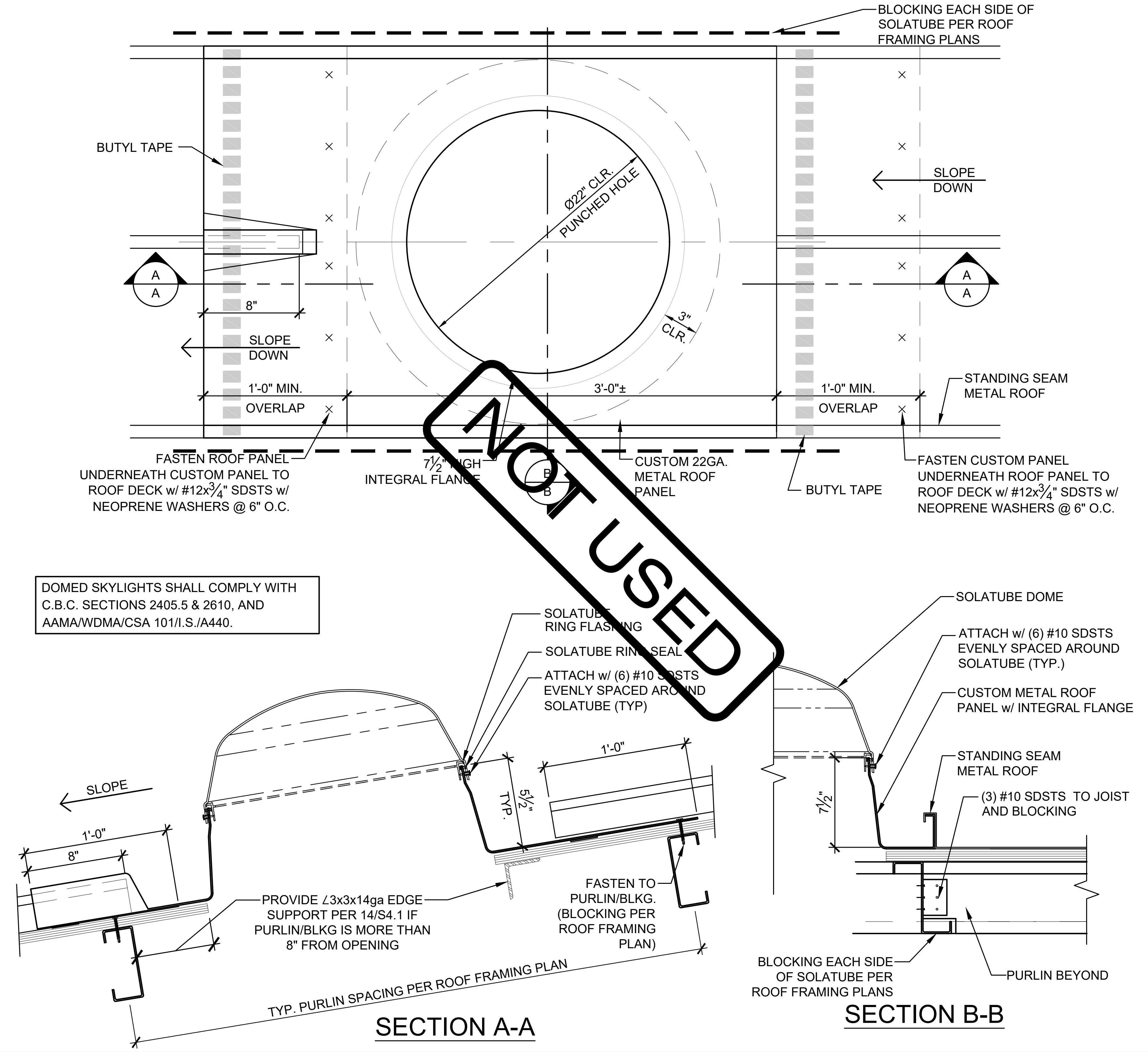
PIPE HANGER DETAIL SCALE: 1-1/2" = 1'-0" **5**



SOLATUBE SECTION (ALT. CLIP) SCALE: 1-1/2" = 1'-0" **6**

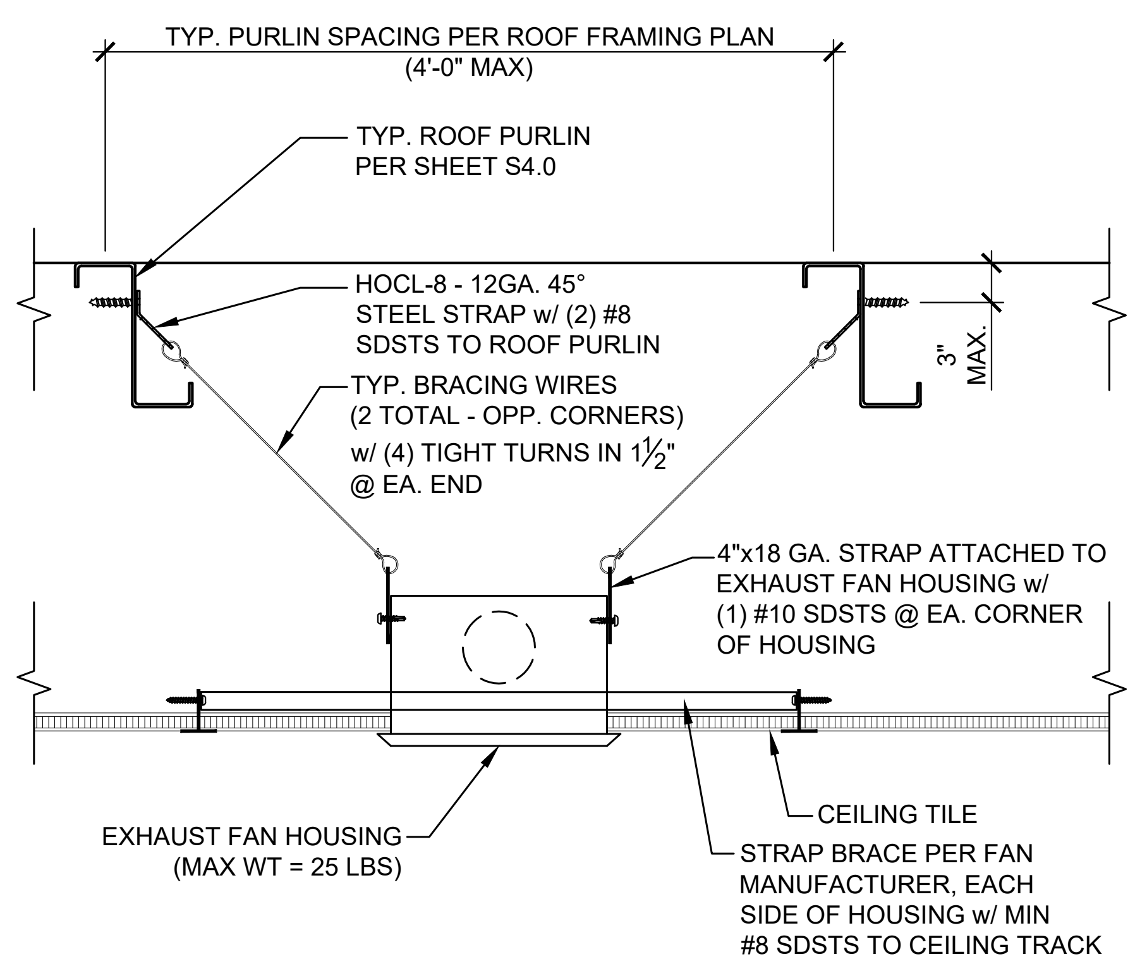

2x6 LEDGER ATTACHED TO WALL w/ (3)- 0.131"Øx3" NAILS EACH STUD & TO 2x BLKG w/ 0.131"Øx3" NAILS @ 12" O.C.
SIMPSON LU26 HANGER
2x BLKG
1/2" GYP BD. TYP.
FULL HEIGHT WOOD STUD INTERIOR WALL PER S8.1
@ INTERIOR FULL HEIGHT WALL
2x6 H.F. #2 OR BETTER JOIST @ 24" O.C. FOR 12'-0" MAX SPAN (FOR SPANS GREATER THAN 12'-0" UP TO 14'-0" MAX, REDUCE SPACING TO 16" O.C.)
TOE-NAIL EA SIDE EA JOIST TO WALL TOP PLATES w/ 0.131"Øx3" NAILS
1" MAX
2x6 RIM JOIST ATTACHED TO JOISTS w/ (2) 0.131"x3" NAILS AND TO WALL TOP PLATES w/ 0.131"x3" TOE NAIL @ 12" O.C. MAX
BRACE PER DETAIL 10/S8.1
1/2" GYP BD TYP.
WOOD STUD INTERIOR WALL PER S8.1
SILL PLATE & ATTACHMENT PER 16 OR 17/S8.1
FLOOR PER S3.0 - S3.3
@ INTERIOR WALL
ROOF BEAM
2x6 LEDGER ATTACHED TO WALL w/ (3)- 0.131"Øx3" NAILS TO EACH STUD OR TO TOP PLATE w/ 0.131"Øx3" NAILS @ 8" O.C. & (1) 0.131"Øx3" NAIL TO EA STUD
SIMPSON LU26 HANGER
2x FULL DEPTH BLKG AT MID-SPAN FOR JOIST SPANS > 8'-0" IF CEILING IS ACCESSIBLE
WOOD STUD EXTERIOR WALL PER S8.0 & S8.1
@ ROOF BEAM
NOT USED

GYPSUM BOARD CEILING DETAIL w/ WOOD STUDS OPTION SCALE: 1-1/2" = 1'-0" **8**

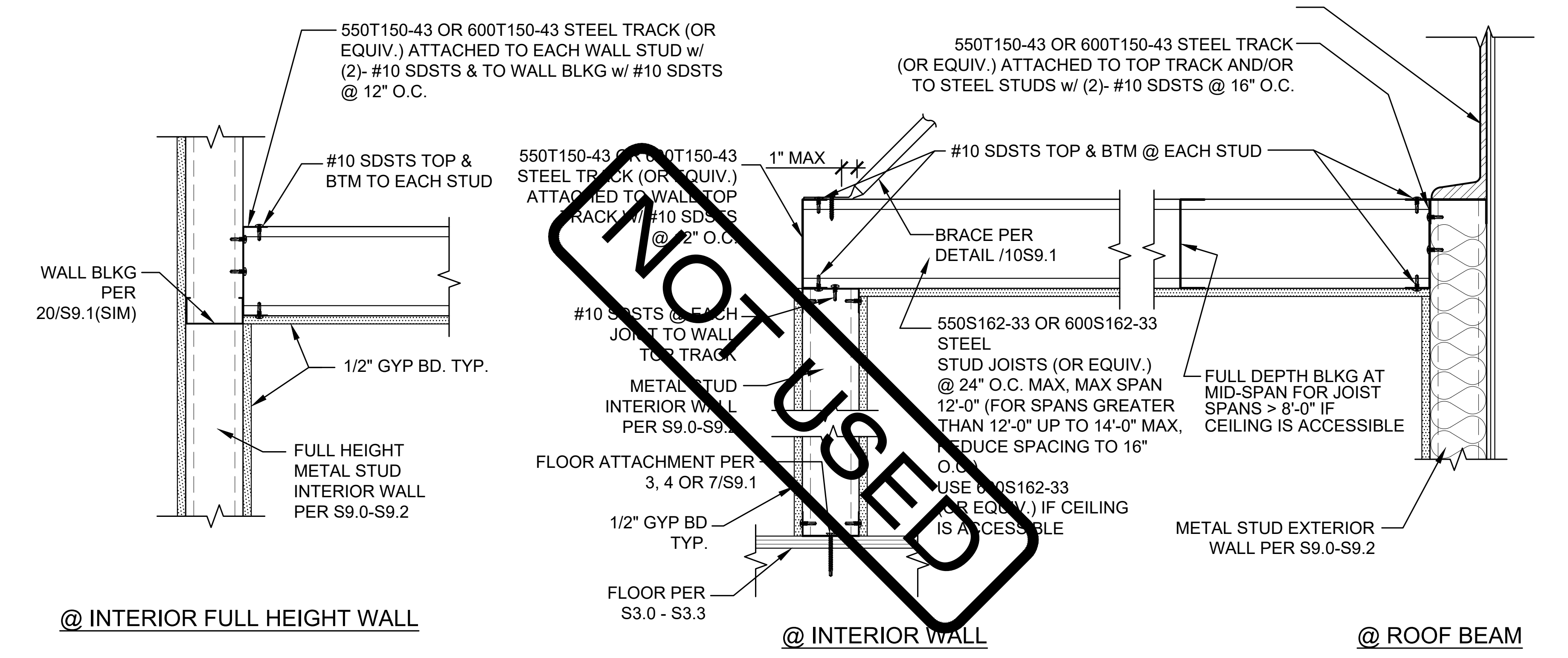

BLOCKING EACH SIDE OF SOLATUBE PER ROOF FRAMING PLANS
BUTYL TAPE
Ø22" CLR. PUNCHED HOLE
SLOPE DOWN
A
A
A
A
8"
SLOPE DOWN
3" CLR.
1'-0" MIN. OVERLAP
3'-0"±
1'-0" MIN. OVERLAP
STANDING SEAM METAL ROOF
FASTEN ROOF PANEL UNDERNEATH CUSTOM PANEL TO ROOF DECK w/ #12x¾" SDSTS w/ NEOPRENE WASHERS @ 6" O.C.
7½" HIGH INTEGRAL FLANGE
B
B
CUSTOM 22GA. METAL ROOF PANEL
BUTYL TAPE
FASTEN CUSTOM PANEL UNDERNEATH ROOF PANEL TO ROOF DECK w/ #12x¾" SDSTS w/ NEOPRENE WASHERS @ 6" O.C.
SOLATUBE RING FLASHING
SOLATUBE RING SEAL
ATTACH w/ (6) #10 SDSTS EVENLY SPACED AROUND SOLATUBE (TYP)
SLOPE
1'-0"
8"
1'-0"
5½"
TYP.
PROVIDE ∠3x3x14ga EDGE SUPPORT PER 14/S4.1 IF PURLIN/BLKG IS MORE THAN 8" FROM OPENING
FASTEN TO PURLIN/BLKG. (BLOCKING PER ROOF FRAMING PLAN)
TYP. PURLIN SPACING PER ROOF FRAMING PLAN
SECTION A-A
SOLATUBE DOME
ATTACH w/ (6) #10 SDSTS EVENLY SPACED AROUND SOLATUBE (TYP.)
CUSTOM METAL ROOF PANEL w/ INTEGRAL FLANGE
STANDING SEAM METAL ROOF
7½"
(3) #10 SDSTS TO JOIST AND BLOCKING
BLOCKING EACH SIDE OF SOLATUBE PER ROOF FRAMING PLANS
PURLIN BEYOND
SECTION B-B
NOT USED

DOMED SKYLIGHTS SHALL COMPLY WITH C.B.C. SECTIONS 2405.5 & 2610, AND AAMA/WDMA/CSA 101/I.S./A440.

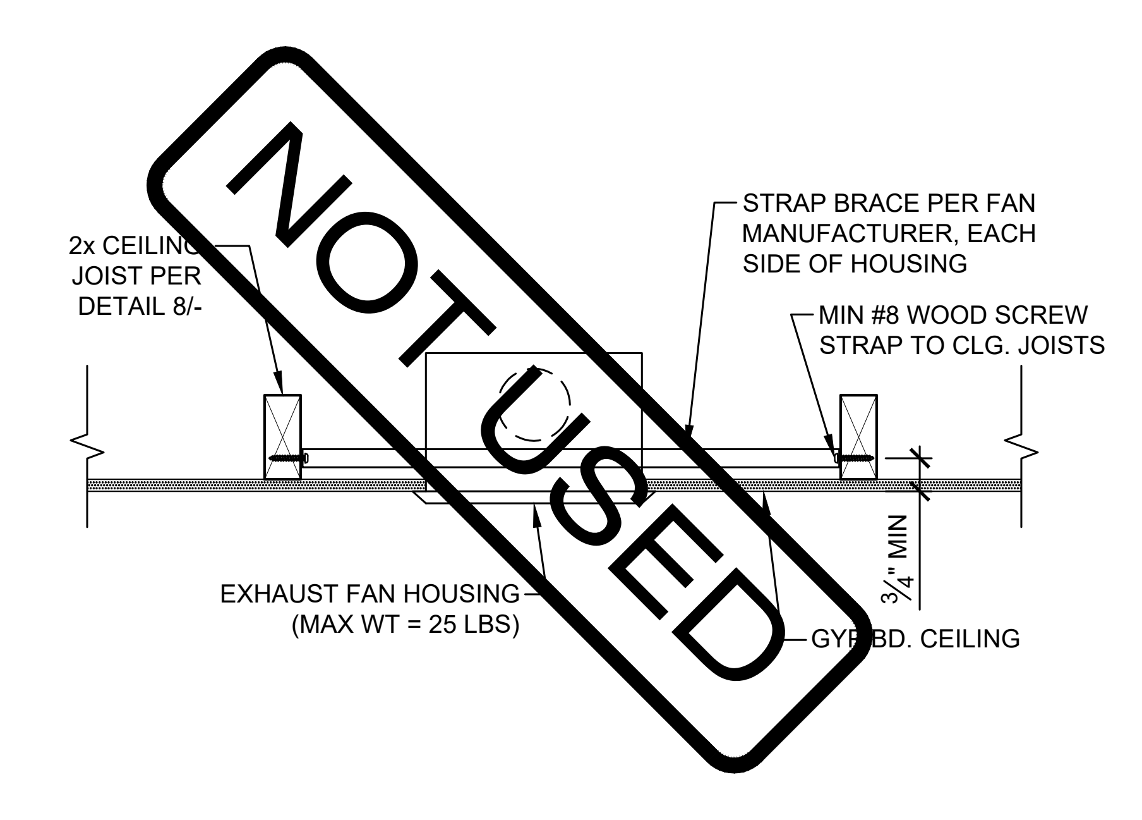
OPTIONAL SOLATUBE DETAILS SCALE: 1-1/2" = 1'-0" **15**


TYP. PURLIN SPACING PER ROOF FRAMING PLAN (4'-0" MAX)
TYP. ROOF PURLIN PER SHEET S4.0
HOCL-8 - 12GA. 45° STEEL STRAP w/ (2) #8 SDSTS TO ROOF PURLIN
3" MAX.
TYP. BRACING WIRES (2 TOTAL - OPP. CORNERS) w/ (4) TIGHT TURNS IN 1½" @ EA. END
4"x18 GA. STRAP ATTACHED TO EXHAUST FAN HOUSING w/ (1) #10 SDSTS @ EA. CORNER OF HOUSING
EXHAUST FAN HOUSING (MAX WT = 25 LBS)
CEILING TILE
STRAP BRACE PER FAN MANUFACTURER, EACH SIDE OF HOUSING w/ MIN #8 SDSTS TO CEILING TRACK

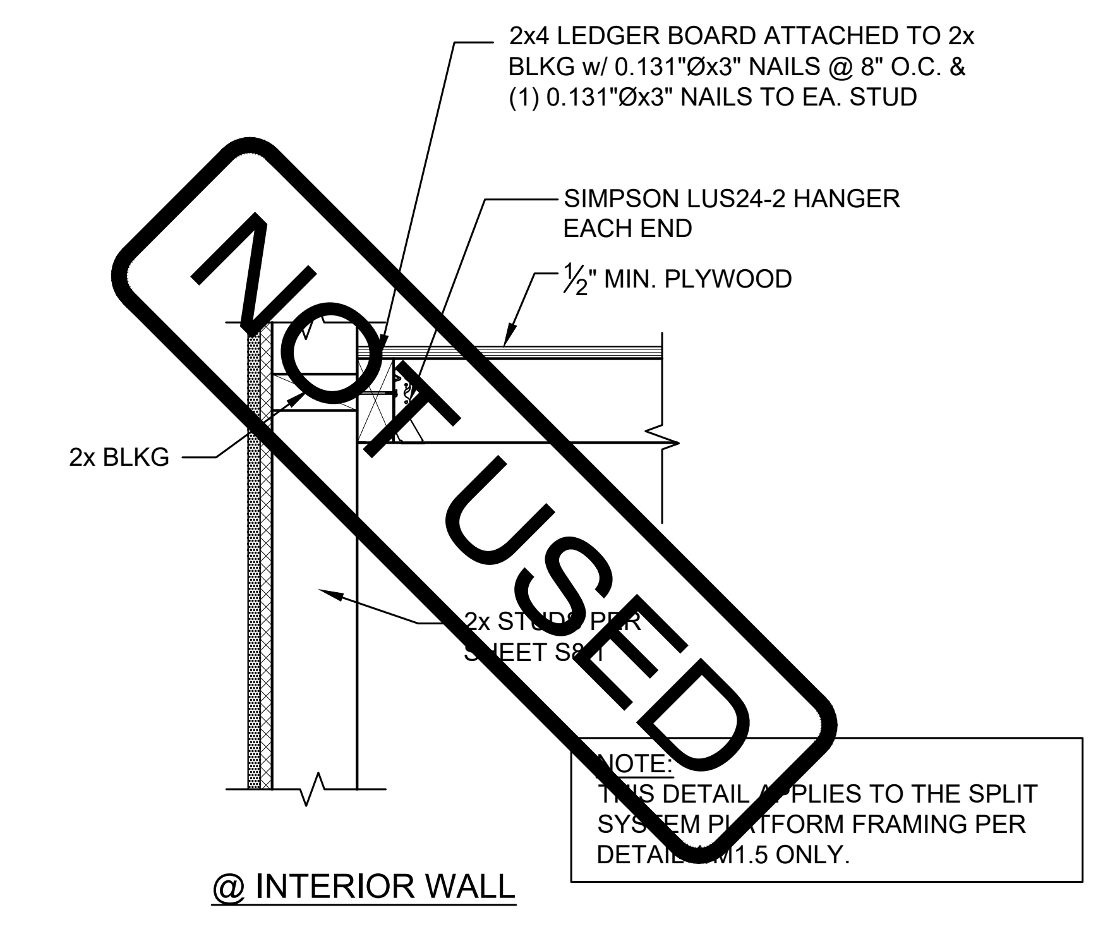
EXHAUST FAN @ T-BAR CEILING MOUNT **11**


550T150-43 OR 600T150-43 STEEL TRACK (OR EQUIV.) ATTACHED TO EACH WALL STUD w/ (2)- #10 SDSTS & TO WALL BLKG w/ #10 SDSTS @ 12" O.C.
#10 SDSTS TOP & BTM TO EACH STUD
WALL BLKG PER 20/S9.1(SIM)
1/2" GYP BD. TYP.
FULL HEIGHT METAL STUD INTERIOR WALL PER S9.0-S9.2
@ INTERIOR FULL HEIGHT WALL
550T150-43 OR 600T150-43 STEEL TRACK (OR EQUIV.) ATTACHED TO WALL TOP TRACK w/ #10 SDSTS @ 12" O.C.
1" MAX
#10 SDSTS @ EACH JOINT TO WALL TOP TRACK
METAL STUD INTERIOR WALL PER S9.0-S9.2
FLOOR ATTACHMENT PER 3, 4 OR 7/S9.1
1/2" GYP BD TYP.
FLOOR PER S3.0 - S3.3
@ INTERIOR WALL
550T150-43 OR 600T150-43 STEEL TRACK (OR EQUIV.) ATTACHED TO TOP TRACK AND/OR TO STEEL STUDS w/ (2)- #10 SDSTS @ 16" O.C.
#10 SDSTS TOP & BTM @ EACH STUD
BRACE PER DETAIL /10S9.1
550S162-33 OR 600S162-33 STEEL STUD JOISTS (OR EQUIV.) @ 24" O.C. MAX, MAX SPAN 12'-0" (FOR SPANS GREATER THAN 12'-0" UP TO 14'-0" MAX, REDUCE SPACING TO 16" O.C.) USE 600S162-33 (OR EQUIV.) IF CEILING IS ACCESSIBLE
FULL DEPTH BLKG AT MID-SPAN FOR JOIST SPANS > 8'-0" IF CEILING IS ACCESSIBLE
METAL STUD EXTERIOR WALL PER S9.0-S9.2
@ ROOF BEAM
NOT USED

GYPSUM BOARD CEILING DETAIL w/ STEEL STUDS OPTION SCALE: 1-1/2" = 1'-0" **13**


2x CEILING JOIST PER DETAIL 8/-
STRAP BRACE PER FAN MANUFACTURER, EACH SIDE OF HOUSING
MIN #8 WOOD SCREW STRAP TO CLG. JOISTS
¾" MIN
EXHAUST FAN HOUSING (MAX WT = 25 LBS)
GYP. BD. CEILING
NOT USED

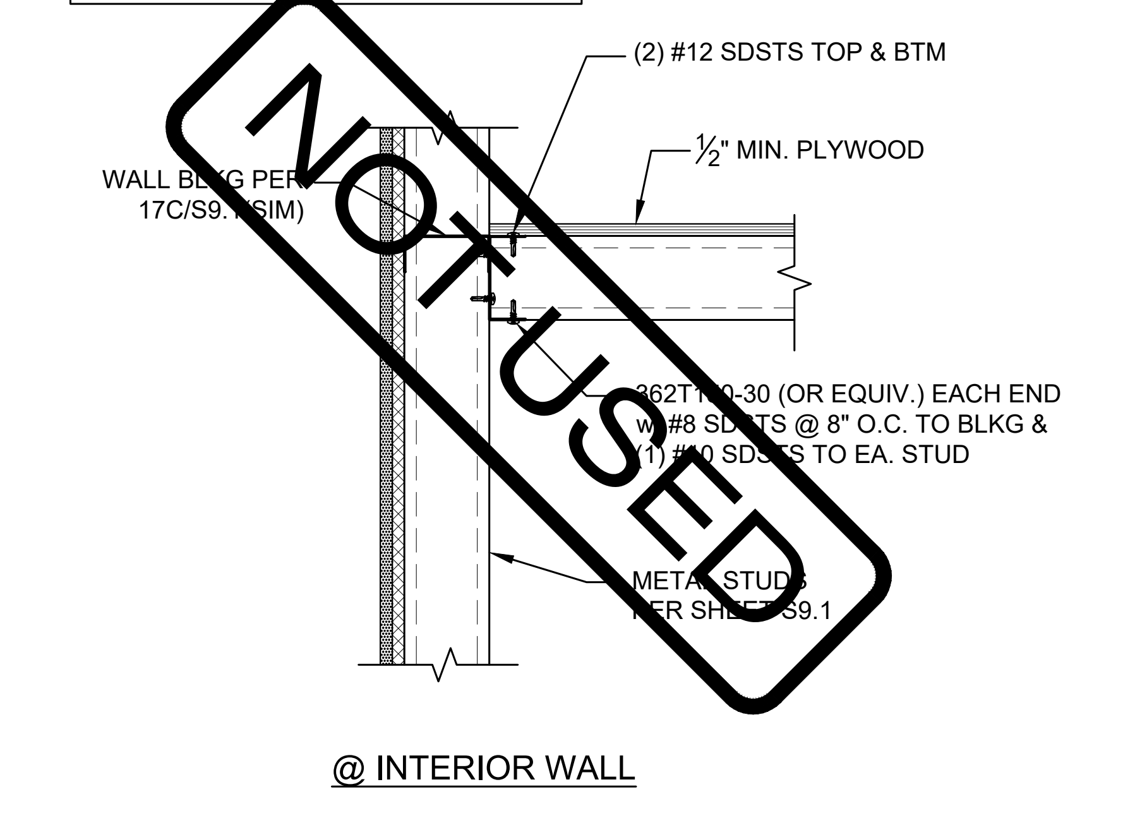
EXHAUST FAN @ GYP.BD. CEILING MOUNT **16**


2x4 LEDGER BOARD ATTACHED TO 2x BLKG w/ 0.131"Øx3" NAILS @ 8" O.C. & (1) 0.131"Øx3" NAILS TO EA. STUD
SIMPSON LUS24-2 HANGER EACH END
½" MIN. PLYWOOD
2x BLKG
2x STUDS PER SHEET S8.1
@ INTERIOR WALL
NOT USED

NOTE:
THIS DETAIL APPLIES TO THE SPLIT SYSTEM PLATFORM FRAMING PER DETAIL 1/M1.5 ONLY.

DETAIL @ WOOD STUD OPTION SCALE: 1-1/2" = 1'-0" **17**

NOTE:
THIS DETAIL APPLIES TO THE SPLIT SYSTEM PLATFORM FRAMING PER DETAIL 1/M1.5 ONLY.


(2) #12 SDSTS TOP & BTM
½" MIN. PLYWOOD
WALL BLKG PER 17C/S9.1(SIM)
362T150-30 (OR EQUIV.) EACH END w/ #8 SDSTS @ 8" O.C. TO BLKG & (1) #8 SDSTS TO EA. STUD
METAL STUDS PER SHEET S9.1
@ INTERIOR WALL
NOT USED

DETAIL @ STEEL STUD OPTION SCALE: 1-1/2" = 1'-0" **18**

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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

FORM

SITE SPECIFIC PROJECT NAME
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~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDAL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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1
2
3
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DRAWN BY:
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-XX

SHEET TITLE:
MECHANICAL ROOF DETAILS

SHEET NUMBER:
M1.6

12'x40' MINIMUM INSULATION SCHEDULE

ZONE	WOOD STUDS WALL	METAL STUDS WALL	ROOF			FLOORS (NON-CONCRETE)	CONCRETE FLOORS
			* BATTS	RIGID (w/SHEATHING)	RIGID (w/o SHEATHING)		
~~1 & 16~~	~~R-13~~	~~R-5/R-13~~	~~R-19~~	~~R-15~~	~~R-15~~	~~R-13~~	~~R-5~~
2 - 5	R-13	R-5/R-13	R-19	R-5	R-5	R-13	N/A
6 -13	R-13	R-5/R-13	R-19	R-5	R-5	R-13	N/A
14 & 15	R-13	R-5/R-13	R-19	R-5	R-5	R-13	N/A

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

* SECURED w/ 22 GA WIRE @ 16" O.C.

MINIMUM INSULATION SCHEDULES

SUSPENDED LAY-IN PANEL CEILING: PER DSA IR 25-2 2019 CBC

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 RECYLED CONTENT(HRC) ICC**
EVALUATION REPORT TYPE AND NUMBER: **ESR#1308**
MAIN RUNNER PART, MODEL, OR CATALOG NUMBER: **7301**
CROSS RUNNER PART, MODEL, CATALOG NUMBER: **4' CROSS T # XL7341 & 2' CROSS T # XL8320**

1.04 SEISMIC WALL CLIP: BERC2 CLIP MANUFACTURER'S MODEL: 7810

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

1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE ¾" 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 ¾" 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 (F_Y) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (F_U) OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES

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

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

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

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

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

4. FASTENERS AND WELDING

4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513 AND ASME B18.6.3. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.

4.02 N/A

4.03 N/A

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 PRE-STRESSING 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. LUMINARIES

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

6.02 SURFACE-MOUNTED LUMINARIES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAUGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAUGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN A LUMINARY IS 8 FEET OR LONGER OR EXCEEDS 56 POUNDS. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.

6.03 LUMINARIES 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 LUMINARIES 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 #12GAUGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.

EXCEPTION: ALL LUMINARIES 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 LUMINARIES 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 THAN10 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 A - HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE	RUNNER SPLICE DETAIL	SEISMIC WALL CLIPS	ICBO ER REPORT
DONN/USG	DX-26	DX-424	DX-216	5C/M1.4	BERC2	ICC-ESR-1222
ARMSTRONG	7301	XL7341	XL8320	5C/M1.4	BERC2	ICC-ESR-1308
CHICAGO/ROCKFON	200.01	1274.01	1202.01	5C/M1.4	BERC2	ICC-ESR-2631

NOTES:
1. ALL GRID COMPONENTS SHALL BE BY THE SAME MANUFACTURER
2. REFER TO 'A' DETAIL 5/M1.4 FOR BERC2 CLIP DETAIL

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

FORM

SITE SPECIFIC PROJECT NAME
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~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

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MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-XX

SHEET TITLE:
CEILING NOTES
& SPECIFICATIONS

SHEET NUMBER:
M1.7

HEATING VENTILATING AND AIR CONDITIONING (HVAC)

1. HEAT PUMP: SINGLE PACKAGE WALL-MOUNTED AIR-TO-AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH A.R.I. STANDARD 240-77. MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT. ALL UNITS SHALL BE 230/208 VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE, AND MEET CURRENT ENERGY STANDARDS.

A. THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78 DEGREES F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER

B. THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY ONE-THIRD FRESH AIR.

2. DUCTWORK

A. CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE EQUIPMENT VOLUME, AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL, LATEST EDITIONS. ALL DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT ATTENUATION AT ALL DUCTWORK WITHIN 2'-0" OF HVAC UNIT.

B. NON-METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM, RIGID 1" FIBERGLASS OR INSULATED FLEX-DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 2'-0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE. REFERENCE BRANDS: OWENS-CORNING FIBERGLASS DUCTBOARD, 1" THICK, AND MICRO-AIRE TYPE 475. NON-METALLIC DUCTWORK SHALL CONFORM TO NFPA 90-A AND SMACNA CLASS 1 RATING.

C. DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. (MINIMUM R=4.2) HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4' INTERVALS, WITH HANGING STRAPS A MINIMUM 1-1/2" WIDE. DUCTS MUST BE PULLED TIGHTS WITH A MAXIMUM SAG OF 1/2" PER FOOT OF HORIZONTAL RUN. DUCTS SHALL NOT BE KINKED OR CRUSHED. BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.

D. SIZES OF SUPPLY AND RETURN DUCTS SHALL BE SPECIFIED ON PLANS. HVAC CURB SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALLIGN WITH THE HVAC UNIT.

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

3. AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25, SMOKE GENERATION LESS THAN OR EQUAL TO 50.

4. SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAXIMUM, 12" ROUND. 1" FIBERGLASS OR FLEXDUCT DUCTWORK SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS. 24"X8"X1" MICRO-AIRE TYPE #475 OWENS-CORNING, KNAUF, CERTAINTEED, OR EQUAL AND 90-B: UL #131 TEST, CLASS 1 RATING WITH "SMACNA".

5. REGISTERS AND DIFFUSERS: PROVIDE THREE (MINIMUM) 4-WAY THROW AIR DIFFUSERS AS MANUFACTURED BY CARNES, TITUS, HART AND COOLEY, METALAIRE, SHOEMAKER, BARBER-COLEMAN OR KRUEGER COMMERCIAL GRADE GRILLS AND REGISTERS.

6. AIR CONDITIONING CONTROLS: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL BE PROGRAMMED WITH EXPECTED OCCUPIED TIMERS. AIR HANDLER FAN WILL BE PROGRAMMED TO RUN DURING ALL OCCUPIED TIMES. PRE-OCCUPANCY PURGE SHALL BE PROGRAMMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED.
THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS:
C. 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING DAYS WITH 4 SEPARATE TIME/TEMPERATURE SETTINGS FOR A 24-HOUR PERIOD.
D. KEY BOARD LOCKOUT SWITCH.
E. PROGRAMMABLE DISPLAY.
F. 2-HOUR OVERRIDE MINIMUM.
G. STATUS INDICATED LED'S.
H. BATTERY BACK-UP.
I. PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM OVERRIDE. WHITE RODGERS IF92-371. MOUNT TOP OF BOX @ 48" A.F.F. MAX.
(WHERE SEALED, SETTINGS & ADJUSTMENTS CAN BE DONE BY SERVICE PERSONNEL ONLY.)

7. THERMAL INSULATION
A. ROOF INSULATION: R-19 WITH 22 GA. WIRE @ 16" O.C. & R-1 TOP OF ROOF SHEATHING.
B. WALLS INSULATION: R-13 KRAFT FACED. (R-4 INSULATION OVER INTERIOR SIDE METAL FRAMED WALLS) 17/A5.1 AND 17/A5.3
C. NON-CONCRETE FLOORS INSULATION: R-13
D. CONCRETE FLOORS INSULATION: N/A
E. FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 720.
F. BURNING CHARACTERISTICS: FLAME SPREAD LESS THAN 25 & SMOKE DEVELOPMENT IS LESS THAN 50

8. FACTORY-MADE AIR DUCTS
A. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. SECTION 601.0.
B. EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH C.M.C. SECTION 601.0 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE REQUIREMENTS OF C.M.C. SECTION 601.0.
C. DUCT SUPPORT FLEX DUCT TO BE SUPPORTED WITH 1-1/2" WIDE X26 GA. GALV. STRAP @ MAX 4'-0" O.C. ATTACH TO RAFTER WITH TWO #8 S.M.S. @ EACH END.
D. SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1-1/2" WIDE X26 GA. GALV. STRAPS MINIMUM 2 PER PLENUM.
E. SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE CORNERS.
F. SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS. ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE WEIGHT OF THE DIFFUSER AND SUPPLY AIR BOX WITH TWO #8 S.M.S.

9. FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:
A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES;
B. AT THE CEILING AND FLOOR LEVELS;
C. AND AT 10-FOOT (3048MM) INTERVALS BOTH VERTICAL AND HORIZONTAL.
REFERENCE 2022 CBC SECTION 718.

10. THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4.
(SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")

11. HVAC FILTER
A. FILTERS SHALL HAVE A "MINIMUM EFFICIENCY REPORTING VALUE" OF 13 WITH 2" DEPTH MIN. (MERV 13) AND SHALL BE INSTALLED PRIOR TO OCCUPANCY AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL, PER 2022 CEC SECTION 5.504.5.3
D. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INCLUDING THE MERV RATING, PER 2022 CBC SECTION 5.504.5.3.1

10. ROOF MOUNTED HVAC
A. A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT. MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND DUCTS.

13. HVAC CONTROLS
A. THERMOSTAT (BY OTHERS) WILL BE PROGRAMMED WHEN THE MODULAR BUILDING IS PLACED ON A SITE TO ENSURE THE MINIMUM AIR RATE WILL BE SUPPLIED TO THE SPACE AT ALL USUALLY OCCUPIED TIMES AND PROGRAMMED TO PROVIDE A PRE-OCCUPANCY PURGE ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED PER ENERGY CODE 120.1(C)1.

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

HVAC NOTES

HEATING VENTILATING AND AIR CONDITIONING (HVAC) continued

15. THE CALIFORNIA ENERGY CODE 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

16. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROL ACCEPTANCE TEST TECHNICIAN (ATT). MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

17. A LISTING OF CERTIFIED ATT'S CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF PROJECT INSPECTORS WILL BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

18. THERMOSTAT SHALL BE PROGRAMMED TO PREVENT SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. THE CUT-ON TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-ON TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT-OFF TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-OFF TEMPERATURE FOR SUPPLEMENTARY HEATING PER CEC 2022 SECTION 110.2(B).

HVAC NOTES (CONTINUATION)

HVAC CFM CHART

	MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS)	EER	COP	CLIMATE ZONE(S)
BARD WALL HUNG	W24HB	2 TON HEAT PUMP	818	500	11.3	3.3	1-16
	W30HB	2½ TON HEAT PUMP	1053	500	11	3.4	1-16

HVAC CFM CHART

	MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS)	EER	COP	CLIMATE ZONE(S)
BARD ITECH FLOOR MOUNTED		2 TON HEAT PUMP*					
	* WHEN USING ITECH WHERE 2 TON HEAT PUMP IS SPECIFIED, USE 2½ TON UNIT SPECIFIED BELOW						
	I30H1-A	2½ TON HEAT PUMP	900	816	11.7	3.6	1-16

HVAC CFM CHART

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

H2 FAN SYSTEMS

BUILDING SIZE	DESIGN OA
	CFM
12'x40'	182

HVAC SCHEDULE

BUILDING SIZE & CLIMATE ZONE GROUP (ZONE)	# OF HVAC			
	3½ TON (BARD)	4 TON (BARD)	4 TON (SYSTEM AIR)	5 TON (SYTEM AIR)
☐ 12'x40' GROUP A (1,16)	1			
☐ 12'x40' GROUP B (2-5)	1			
☐ 12'x40' GROUP C (6-13)	1			
☐ 12'x40' GROUP D (14,15)	1			

1. LOW-PROBABILITY SYSTEM(S) ON PLAN PER CMC 1103.2 IN REGARDS TO REFRIGERANT.

2. REFRIGERANT 410B (WHERE APPLICABLE) AND COORESPONDING SAFETY GROUP ON PLAN (CMC 1103 AND TABLE 1102.3)

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

HVAC SCHEDULES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122042 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/15/2024

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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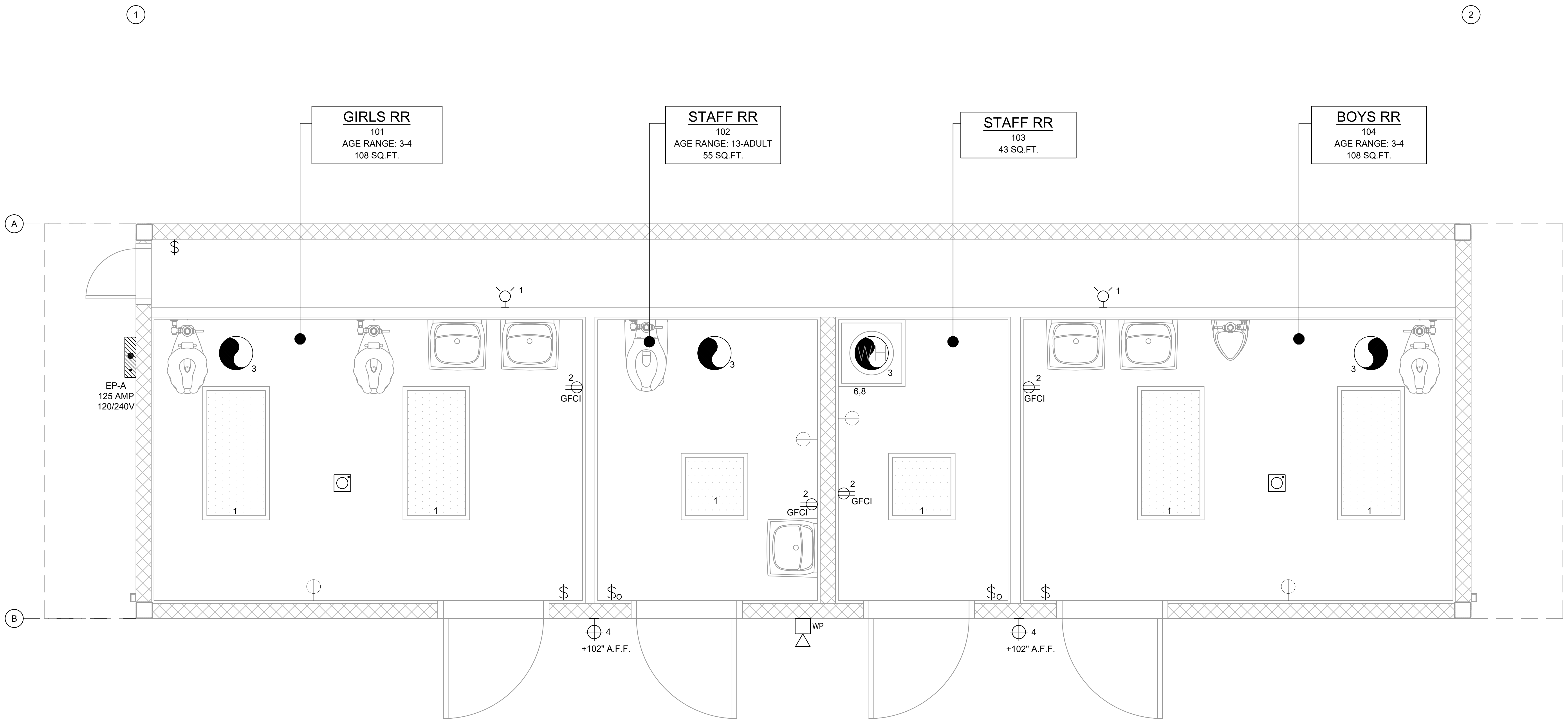
DRAWN BY:
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-XX

SHEET TITLE:
MECHANICAL NOTES & SCHEDULES

SHEET NUMBER:
M1.7A

SERIAL NUMBER:
26-101-012



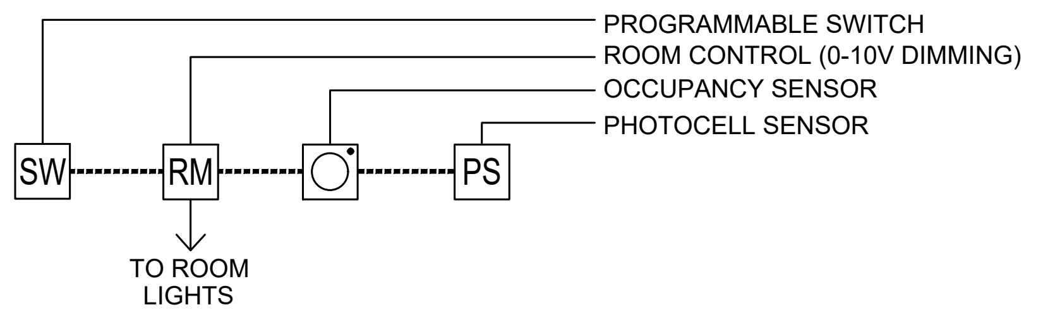
ELECTRICAL PLAN - GIRLS/STAFF/JANITOR/BOYS (AGE RANGE: 13-ADULT & 3-4)

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

1

ENERGY CONTROLS

1. AUTOMATIC DAYLIGHTING CONTROLS:
NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN IN THE SHADED AREAS). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1. WHEN DAYLIT CONTROLS ARE REQUIRED, PROVIDE COMBINATION OCCUPANCY/PHOTOCELL SENSOR.
2. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
3. SOLAR-READY ZONE REQUIREMENTS:
REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0
4. SUGGESTED CONTROLS DIAGRAM FOR TYPICAL DAYLIT ZONE:



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

1. THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT & SMOKE DETECTORS, EVACS AND PULL STATIONS, AND COMPLETE FIRE ALARM SYSTEM WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3.
2. ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THIS BASE PC.
3. PULL STATIONS ARE REQUIRED AT EVERY EXIT. AT ANY SPACE REQUIRING 2 OR MORE EXITS, PROVIDE EXIT SIGNS (CBC 1013) AND EMERGENCY EXIT ILLUMINATION (CBC 1008).
4. SEE PLANS FOR LOCATIONS OF ALL DEVICES.
5. STUB-OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES ARE SHOWN DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
6. STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.
7. THE LIGHTS FOR EACH ROOM OVER 250 SQ FT SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN CONJUNCTION WITH BI-LEVEL SWITCHING.
8. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.
9. LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-BAR GRID LAYOUT.
10. ACCEPTANCE TEST SHALL BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE 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.

DEMAND RESPONSE CONTROLS

1. DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
2. DEMAND RESPONSE CONTROLS, WHERE REQUIRED, ARE TO BE PROVIDED BY OTHERS.
3. DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD-BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
4. SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMITTAL OF FORM NRCC-ELC-O1-E TO DSA (BY OTHERS).

▨	ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH, U.O.N.
	INCANDESCENT WALL MOUNTED INTERIOR LIGHT FIXTURE MODEL: 9850-LED, 10W MAX
⊕	EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 40W) - WHERE THERE ARE TWO OR MORE EXITS, A MINIMUM 90 MIN. BATTERY BACK-UP IS REQUIRED
GFCI	GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
$	CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
$o	CONTROLLED-SINGLE POLE LIGHT SWITCH w/ BUILT IN OCCUPANCY SENSOR - MOUNT @ +44" A.F.F. MAX TO TOP OF BOX - LEVITON ODS10-ID OR SIMILAR
	ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH CEILING (PROVIDE WITH COMBINATION PHOTOCELL SENSOR WHEN DAYLIT CONTROLS ARE REQUIRED)
	2'x4' LED EDGE FIT FIXTURE, MODEL: LSI, SFP24 5601K LUMENS - 45 WATTS MAX OR EQUAL
	2'x2' LED EDGE FIT FIXTURE, MODEL: LSI, SFP22 3163K LUMENS - 30 WATTS MAX OR EQUAL
WP	FIRE ALARM NOTIFICATION DEVICE (BY OTHERS) - OUTLET ONLY - 4" SQ. J-BOX WITH BLANK WEATHERPROOF COVER - MOUNTED +90" A.F.F. TO CENTERLINE - DEVICE BY OTHERS
	FIRE ALARM NOTIFICATION DEVICE (BY OTHERS)- OUTLET ONLY - 4" SQ. BOX WITH COVER - MOUNTED SO THAT LENS IS BETWEEN 80"-96" A.F.F. (CEILING MOUNT PER NFPA72 TABLE 6-4.4.1(b)) DEVICE BY OTHERS.

NOT USED

5

ENERGY NOTES

GENERAL NOTES

STANDARD ELECTRICAL SYMBOLS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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PRE-CHECKED SET NAME
12'x40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(1) 12'x40' RESTROOM

MANUFACTURER PROFESSIONAL OF RECORD

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-27

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SCALE:	AS NOTED
DATE:	3/12/2026
PROJECT NO:	2003-26

SHEET TITLE:
ELECTRICAL PLANS
&
SYMBOLS LEGEND

SHEET NUMBER:
E1.0

NOT USED 1

NOT USED 2

250.52 GROUNDING ELECTRODES.

250.52(A) ELECTRODES PERMITTED FOR GROUNDING.

(1) METAL UNDERGROUND WATER PIPE. A METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 3.0 M (10 FT) OR MORE (INCLUDING ANY METAL WELL CASING BONDED TO THE PIPE) AND ELECTRICALLY CONTINUOUS (OR MADE ELECTRICALLY CONTINUOUS BY BONDING AROUND INSULATING JOINTS OR INSULATING PIPE) TO THE POINTS OF CONNECTION OF THE GROUNDING ELECTRODE CONDUCTOR AND THE BONDING CONDUCTOR(S) OR JUMPER(S), IF INSTALLED.

(2) METAL IN-GROUND SUPPORT STRUCTURE(S). ONE OR MORE METAL IN-GROUND SUPPORT STRUCTURE(S) IN DIRECT CONTACT WITH THE EARTH VERTICALLY FOR 3.0 M (10 FT) OR MORE, WITH OR WITHOUT CONCRETE ENCASEMENT. IF MULTIPLE METAL IN-GROUND SUPPORT STRUCTURES ARE PRESENT AT A BUILDING OR A STRUCTURE, IT SHALL BE PERMISSIBLE TO BOND ONLY ONE INTO THE GROUNDING ELECTRODE SYSTEM.

INFORMATIONAL NOTE: METAL IN-GROUND SUPPORT STRUCTURES INCLUDE, BUT ARE NOT LIMITED TO, PILINGS, CASINGS, AND OTHER STRUCTURAL METAL.

(3) CONCRETE-ENCASED ELECTRODE. A CONCRETE-ENCASED ELECTRODE SHALL CONSIST OF AT LEAST 6.0 M (20 FT) OF EITHER (1) OR (2):

(1) ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 13 MM (1⁄2 IN.) IN DIAMETER, INSTALLED IN ONE CONTINUOUS 6.0 M (20 FT) LENGTH, OR IF IN MULTIPLE PIECES CONNECTED TOGETHER BY THE USUAL STEEL TIE WIRES, EXOTHERMIC WELDING, WELDING, OR OTHER EFFECTIVE MEANS TO CREATE A 6.0 M (20 FT) OR GREATER LENGTH; OR

(2) BARE COPPER CONDUCTOR NOT SMALLER THAN 4 AWG

METALLIC COMPONENTS SHALL BE ENCASED BY AT LEAST 50 MM (2 IN.) OF CONCRETE AND SHALL BE LOCATED HORIZONTALLY WITHIN THAT PORTION OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH OR WITHIN VERTICAL FOUNDATIONS OR STRUCTURAL COMPONENTS OR MEMBERS THAT ARE IN DIRECT CONTACT WITH THE EARTH. IF MULTIPLE CONCRETE-ENCASED ELECTRODES ARE PRESENT AT A BUILDING OR STRUCTURE, IT SHALL BE PERMISSIBLE TO BOND ONLY ONE INTO THE GROUNDING ELECTRODE SYSTEM.

INFORMATIONAL NOTE: CONCRETE INSTALLED WITH INSULATION, VAPOR BARRIERS, FILMS OR SIMILAR ITEMS SEPARATING THE CONCRETE FROM THE EARTH IS NOT CONSIDERED TO BE IN “DIRECT CONTACT” WITH THE EARTH.

(4) GROUND RING. A GROUND RING ENCIRCLING THE BUILDING OR STRUCTURE, IN DIRECT CONTACT WITH THE EARTH, CONSISTING OF AT LEAST 6.0 M (20 FT) OF BARE COPPER CONDUCTOR NOT SMALLER THAN 2 AWG.

(5) ROD AND PIPE ELECTRODES. ROD AND PIPE ELECTRODES SHALL NOT BE LESS THAN 2.44 M (8 FT) IN LENGTH AND SHALL CONSIST OF THE FOLLOWING MATERIALS.

(A) GROUNDING ELECTRODES OF PIPE OR CONDUIT SHALL NOT BE SMALLER THAN METRIC DESIGNATOR 21 (TRADE SIZE 3⁄4) AND, WHERE OF STEEL, SHALL HAVE THE OUTER SURFACE GALVANIZED OR OTHERWISE METAL-COATED FOR CORROSION PROTECTION.

(B) ROD-TYPE GROUNDING ELECTRODES OF STAINLESS STEEL AND COPPER OR ZINC COATED STEEL SHALL BE AT LEAST 15.87 MM (5⁄8 IN.) IN DIAMETER, UNLESS LISTED.

(6) OTHER LISTED ELECTRODES. OTHER LISTED GROUNDING ELECTRODES SHALL BE PERMITTED.

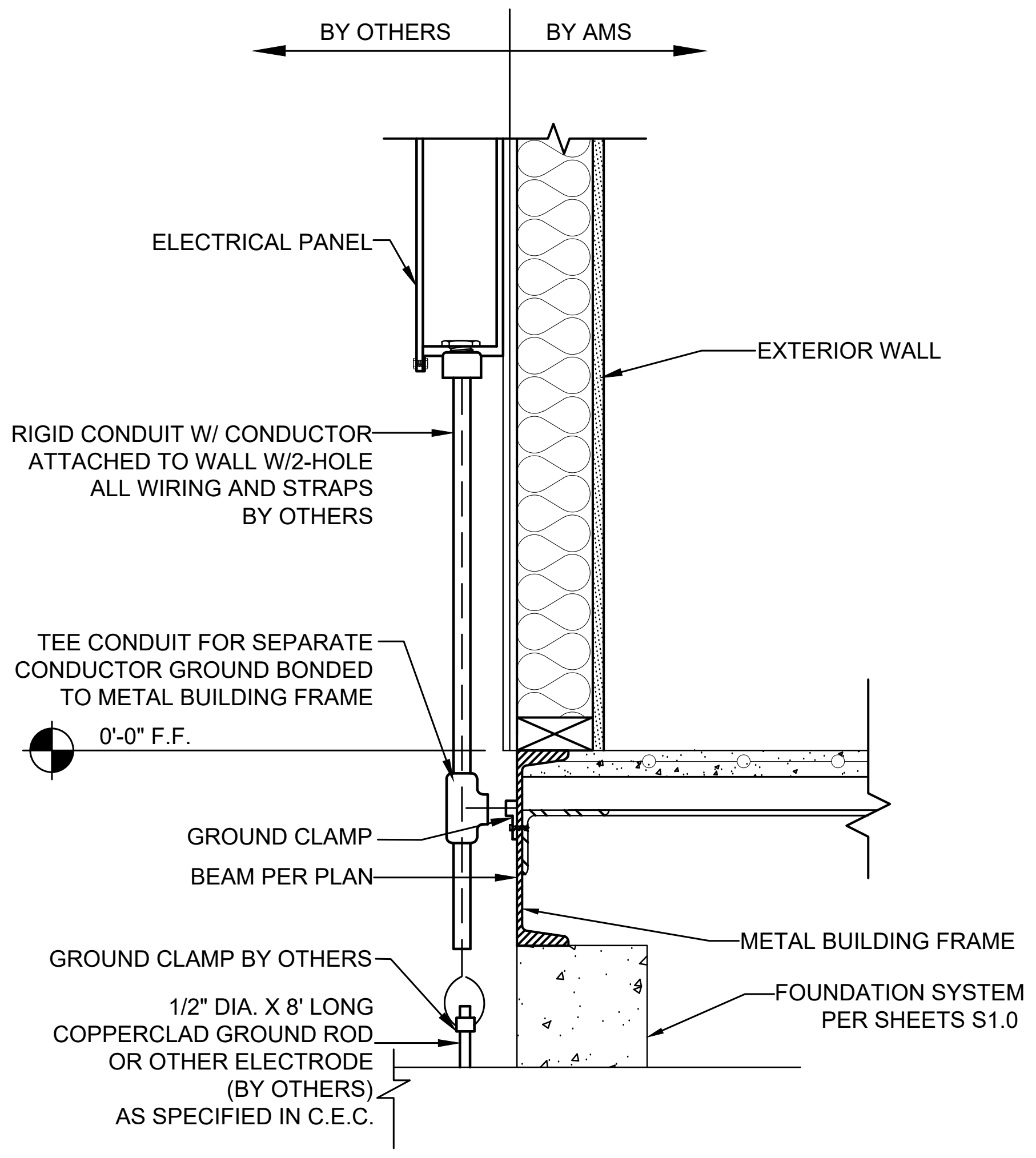
(7) PLATE ELECTRODES. EACH PLATE ELECTRODE SHALL EXPOSE NOT LESS THAN 0.186 M2 (2 FT2) OF SURFACE TO EXTERIOR SOIL. ELECTRODES OF BARE OR ELECTRICALLY CONDUCTIVE COATED IRON OR STEEL PLATES SHALL BE AT LEAST 6.4 MM (1⁄4 IN.) IN THICKNESS. SOLID, UNCOATED ELECTRODES OF NONFERROUS METAL SHALL BE AT LEAST 1.5 MM (0.06 IN.) IN THICKNESS.

(8) OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES. OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES SUCH AS PIPING SYSTEMS, UNDERGROUND TANKS, AND UNDERGROUND METAL WELL CASINGS THAT ARE NOT BONDED TO A METAL WATER PIPE.

(B) NOT PERMITTED FOR USE AS GROUNDING ELECTRODES
THE FOLLOWING SYSTEMS AND MATERIALS SHALL NOT BE USED AS GROUNDING ELECTRODES:

(1) METAL UNDERGROUND GAS PIPING SYSTEMS
(2) ALUMINUM
(3) THE STRUCTURES AND STRUCTURAL REINFORCING STEEL DESCRIBED IN 680.26(B)(1) AND (B)(2)

INFORMATIONAL NOTE:
SEE 250.104(B) FOR BONDING REQUIREMENTS OF GAS PIPING.


BY OTHERS
BY AMS
ELECTRICAL PANEL
EXTERIOR WALL
RIGID CONDUIT W/ CONDUCTOR ATTACHED TO WALL W/2-HOLE ALL WIRING AND STRAPS BY OTHERS
TEE CONDUIT FOR SEPARATE CONDUCTOR GROUND BONDED TO METAL BUILDING FRAME
0'-0" F.F.
GROUND CLAMP
BEAM PER PLAN
METAL BUILDING FRAME
GROUND CLAMP BY OTHERS
FOUNDATION SYSTEM PER SHEETS S1.0
1/2" DIA. X 8' LONG COPPERCLAD GROUND ROD OR OTHER ELECTRODE (BY OTHERS) AS SPECIFIED IN C.E.C.

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

ELECTRICAL PANEL CONNECTION DETAIL 3

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

Panel:	**EP G/S/J/B**			**PHASE:** SINGLE		**VOLTS:** 120/240		**MAIN (AMPS):** 125				**BUSS (AMPS):** 125			**LOCATION:** EXTERIOR	**FEED:** OUT BACK - ABOVE FLOOR				**MOUNTING:** SURFACE	
OBJECT DESCRIPTION	**WATTS PER**	**QTY**	**LCL**	**WATTS A**	**WATTS B**	**BRK**	**POLE**	**WIRE SIZE**	**CKT #**	**LEG A**	**LEG B**	**CKT #**	**WIRE SIZE**	**POLE**	**BRK**	**WATTS A**	**WATTS B**	**LCL**	**QTY**	**WATTS PER**	**OBJECT DESCRIPTION**
LIGHTS	50	8		400		20	1	#12	1	X		2	#12	1	20	720			4	180	GFI RECEPTS
EX FANS	640	1			640	20	1	#12	3		X	4	#12	1	20		34		2	17	EXTERIOR LIGHTS
				0					5	X		6	#10	2	30	3000			1	3000	H/W
					0				7		X	8					3000			3000	
				0					9	X		10				0					
					0				11		X	12					0				
				0					13	X		14				0					
					0				15		X	16					0				
				0					17	X		18				0					
					0				19		X	20					0				
				0					21	X		22				0					
					0				23		X	24					0				
				0					25	X		26				0					
					0				27		X	28					0				
				0					29	X		30				0					
	LEG TOTALS			400	640											3720	3034	**LEG TOTALS**			
LCL=0+7794=7794																					
TOTAL WATTS:	**7794**								**LEG BALANCE:**			**5.7%**							**TOTAL AMPS:**	**32.48**	

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

LOAD PANEL CALCULATIONS

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
4. JUNCTION BOXES - GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
5. COVERS - INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
6. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHALL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2022 EDITION OF NFPA 72.
7. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
8. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).
9. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ), NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).
10. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 CHAPTER 26. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY.

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

GENERAL NOTES

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

FIXTURE NOTES:

1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINARIES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.
4. ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
5. MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
6. ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
7. 2X4 FLUORESCENT FIXTURES SHALL HAVE A STEEL FRAME, LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-2, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE 0.125 INCHES.
8. FLUORESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT, CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACEABLE FROM INSIDE THE FIXTURE.
9. CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET.
   - A. CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE
   - B. CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPARABLE HANGING CLIP & APP'D RECEPT. THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING.
   - C. IF 60 DEGREES WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY SHALL BE PROVIDED ON THE DRAWING.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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PRE-CHECKED SET NAME
12'x40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(1) 12'x40' RESTROOM

MANUFACTURER PROFESSIONAL OF RECORD
RANDAL PATRICK CAVANAGH
No. C12631
Ren. 3-31-27

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

REVISIONS
1
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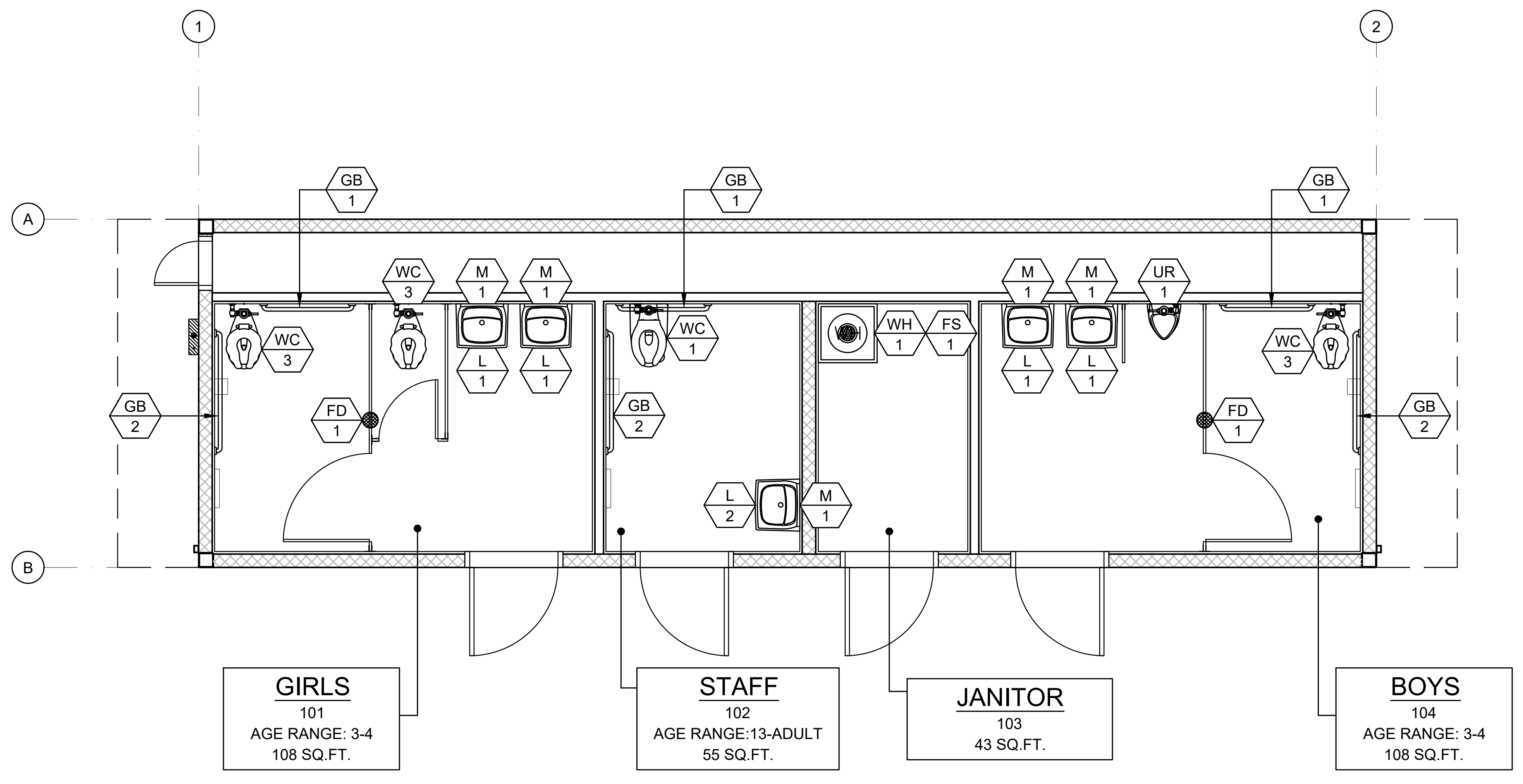
DRAWN BY: AV
SCALE: AS NOTED
DATE: 3/6/2026
PROJECT NO: 2003-26

SHEET TITLE:
ELECTRICAL NOTES & DETAILS

SHEET NUMBER:
E1.2



PLUMBING PLAN - GIRLS/STAFF/JANITOR/BOYS (AGE RANGE: 13-ADULT & 3-4) SCALE : 1/4"=1'-0" 1

MARK	FIXTURE^1	TYPE AT KINDERGARTEN (AGES 3-4)	TYPE AT ELEMENTARY (AGES 5-8)	TYPE AT MIDDLE SCHOOL (AGES 9-12)	TYPE AT HIGH SCHOOL (AGES 13-ADULT)	REMARKS
WC^2 1 ACC	WALL MOUNT WATER CLOSET	CANNOT USE	CANNOT USE	KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 15" HIGHEST AT 17" A.F.F. TO TOP OF SEAT w/BEMIS 1955SSCT TOILET SEAT OR EQUAL	KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 17" A.F.F. 19" HIGHEST TO TOP OF SEAT w/BEMIS 1955SSCT TOILET SEAT OR EQUAL	FLUSH VALVE ZURN MODEL Z6000AV-HET - 1.28 G.P.F OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0.
WC 2	FLOOR MOUNT TANK TYPE	AMERICAN STANDARD 4019 828 w/BEMIS 1955SSCT OR EQUAL TOILET SET	AMERICAN STANDARD 4019 828 w/2L2050T SEAT (2" THICK) #3128.001 FOR BOWL #4019.228 LEFT TANK #4019.828 RIGHT TANK	KOHLER 'WELLWORTH' MODEL K-3998 OR EQUALw/BEMIS 1955SSCT OR EQUAL TOILET SEAT	KOHLER 'WELLWORTH' MODEL K-3999 OR EQUAL w/BEMIS 1955SSCT OR EQUAL TOILET SEAT	WC/2 FIXTURE MAX FLOW RATE OF 1.28 G.P.F - LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
WC 3 ACC OPTIONAL	FLOOR MOUNT FLUSH VALVE	KOHLER 'PRIMARY' MODEL K-96064 OR EQUAL. w/BEMIS 1955SSCT TOILET SEAT OR EQUAL	KOHLER 'PRIMARY' MODEL K-96064 OR EQUAL w/2L205T (2" THICK) TOILET SEAT OR EQUAL	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'WELLCOMME ULTRA' MODEL K-96053 OR EQUAL w/BEMIS 1955SSCT OR EQUAL TOILET SEAT	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'HIGHCLIFF ULTRA' MODEL K-96057 OR EQUAL w/BEMIS 1955SSCT OR EQUAL TOILET SEAT	FLUSH VALVE ZURN MODEL Z6000AV-HET - 1.28 G.P.F OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0.
L 1	BOYS/GIRLS LAVATORY	KOHLER 'KINGSTON' MODEL K-2007-0				BOY/GIRL RESTROOM - ZURN MODEL Z86100-XL-3M - COLD WATER ONLY - SINGLE SPOUT MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M. METER FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MIN.
L 2	ADULT LAVATORY	KOHLER 'KINGSTON' MODEL K-2005-0				ADULT RESTROOM - ZURN MODEL Z7440-XL-FC HOT/COLD WATER - 4" ON CENTER HOLE. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M.
UR 1 ACC	URINAL	WALL MOUNT TYPE KOHLER MODEL DEXTER K-5452-ET-0 OR EQUAL FLOW RATE = 0.125 gpf				FLUSH VALVE ZURN MODEL Z6003-AV (0.125gpf) OR EQUAL. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
M 1	MIRROR	WALL MOUNT TYPE BOBRICK MODEL B165 18X30 OR EQUAL				MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE MIRROR PER SCHEDULE 10/P2.0
GB 1	36" GRAB BARS	WALL MOUNT TYPE MOEN MODEL 8736 & 8748 (1 1/4" CONCEALED SCREW 36"& 48") OR EQUAL				18 GA. 304 STAINLESS STEEL SATIN FINISH MOUNT AS SPECIFIED IN FLOOR PLANS AND PER SCHEDULE 10/P2.0. (STRUCTURAL STRENGTH OF GRAB BARS 250# MIN.)
GB 2	48" GRAB BARS					
WH 1	WATER HEATER	RHEEM ELECTRIC WATER HEATER MODEL PROE6-1-RH-POU 240 VOLT SINGLE PHASE				AVAILABLE IN 6, ~~10, 20 AND 30~~ GALLON MODELS (MAX WATER HEATER WEIGHT) PER 6/M1.4 OR 1/P2.0
ITWH 1	INSTANT-TEMP WATER HEATER	CHRONOMITE INSTANT-TEMP WATER HEATER MODEL M20L/240 INSTANT SINGLE PHASE 104°				CHRONOMITE MODEL M20L/208 OR EQUAL SEE DETAIL 7/P2.0
FS 1	CUSTODIAN SINK	FLORESTONE FLOOR SINK MOLDED MOP RECEPTORS MODEL MSR-2424 W/ 3" DRAIN OR EQUAL				ZURN 843-MI-RC OR EQUAL
ULS 1	UTILITY SINK	WALL MOUNT TYPE FLORESTONE FM OR EQUAL				CAITLIN CBK110CP OR EQUAL
FD 1	FLOOR DRAIN	WOOD FLOOR DRAIN SIOUIX CHIEF MODEL MODEL 822-2DNRV OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS. PROVIDE GRATE WITH MAX 1/2" OPENINGS, MEASURED IN BOTH DIRECTIONS
FD 2	FLOOR DRAIN	CONCRETE FLOOR DRAIN ZURN MODEL P415-CC W/ STANDARD GRATE ZURN 33160-002 OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS. (FLOOR DRAIN TO BE USED ON CONCRETE ONLY.) PROVIDE GRATE WITH MAX 1/2" OPENINGS, MEASURED IN BOTH DIRECTIONS
CS 1	CLASSROOM SINK	DAYTON MODEL D12521 25"x21-1/4" SINGLE BOWL SINK OR EQUAL				FAUCET - ZURN MODEL Z2871-B4-XL W/WRIST BLADES. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
DF 1	DRINKING FOUNTAIN	ELKAY MODEL EDFP217C WALL MOUNT WATER FOUNTAIN				
HB 1	HOSE BIBB	STANDARD HOSE BIBB ARROWHEAD MODEL 353LKLF OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS.

NOTES:
1. ALL WATER FIXTURES MUST MEET REQUIREMENTS OF CAL-GREEN TITLE 24, PART 11, SECTION 5.303.3 "WATER CONSERVING PLUMBING FIXTURES & FITTINGS".
2. FOR OPTIONAL ACCESSIBLE FLOOR-MOUNT WATER CLOSET, SEE PLUMBING SCHEDULE MARK WC/3 (NOT SHOWN ON PLAN).
3. NOT ALL ITEMS LISTED MAY OCCUR IN THIS PROJECT.
4. THERE SHOULD BE NO SHARP OR ABRASIVE SURFACES UNDER LAVS OR SINKS.
5. REFER TO DETAIL 10/P2.0 FOR SCHEDULE OF ACCESSIBLE HEIGHTS AT FIXTURES.

PLUMBING FIXTURE SCHEDULE

NOT USED 4A

NOT USED 4B

NOT USED 5

A 1 = PLUMBING FIXTURE I.D. - SEE SCHEDULE ABOVE

SYMBOLS LEGEND

PLANS SHALL MEET ENERGY CODE 120.3 FOR PIPE INSULATION. ALL WATER HEATERS SHALL HAVE R7.7 ON HOT AND COLD LINES FOR THE FIRST 8 FEET FROM WATER HEATER (TANK TYPE AND INSTANT). SECTION 609.12 REQUIRES HOT WATER PIPING FROM THE WATER HEATER TO THE FIXTURE (CONTROL VALVE) BE INSULATED TO A MINIMUM WALL THICKNESS OF NOT LESS THAN THE DIAMETER OF THE PIPE FOR A PIPE UP TO 2 INCHES (50 MM) IN DIAMETER. INSULATION WALL THICKNESS SHALL BE NOT LESS THAN 2 INCHES (51 MM) FOR A PIPE OF 2 INCHES (50 MM) OR MORE IN DIAMETER. PER PLUMBING CODE 609.12 UPDATE PLANS TO SHOW HOW THE HOT WATER PIPING IS INSULATED FROM THE WATER HEATER TO THE FIXTURE (CONTROL VALVE) TO A MINIMUM WALL THICKNESS OF NOT LESS THAN THE DIAMETER OF THE PIPE. INSTANTANEOUS WATER HEATERS WITH AN INPUT GREATER THAN 6.8 KBTU/H OR 2 KW (ALL INSTANTANEOUS ARE OVER 4KW) SHALL HAVE ISOLATION VALVES ON BOTH THE INCOMING COLD WATER SUPPLY AND THE HOT WATER PIPE LEAVING THE WATER HEATER, TO ASSIST IN THE FLUSHING OF THE HEAT EXCHANGER AND HELP PROLONG THE LIFE OF THE WATER HEATERS PER ENERGY CODE 110.3(C).

PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.

1. DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS NOTED OTHERWISE (i.e. F.O.C., ℄)
2. ~~RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION.~~
3. RESTROOM MODULE OCCURS ONLY AT END OF BUILDING. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
4. RESTROOM MODULE CANNOT STAND ALONE AND SHALL BE ASSEMBLED TOGETHER WITH AT LEAST ONE OTHER 12'x40' MODULE.
5. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 ~~OR S9.1~~ FOR ATTACHMENTS.
6. REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS AT TOILETS.
7. REFER TO DETAILS 1, 3, 4 ~~& 5~~, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
8. SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
9. PIPING MATERIAL
   a. WATER: COPPER TYPE "L", 95/5 SOLDER.
   b. WASTE DRAIN AND VENT: ABS.

10. REFER TO SHEET M1.0 FOR TYPICAL BRACING AND ANCHORAGE NOTES.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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PRE-CHECKED SET NAME
12'x40' STANDARD MODULAR BUILDING

FORM

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(1) 12'x40' RESTROOM

MANUFACTURER PROFESSIONAL OF RECORD
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-27

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

REVISIONS
1
2
3
4

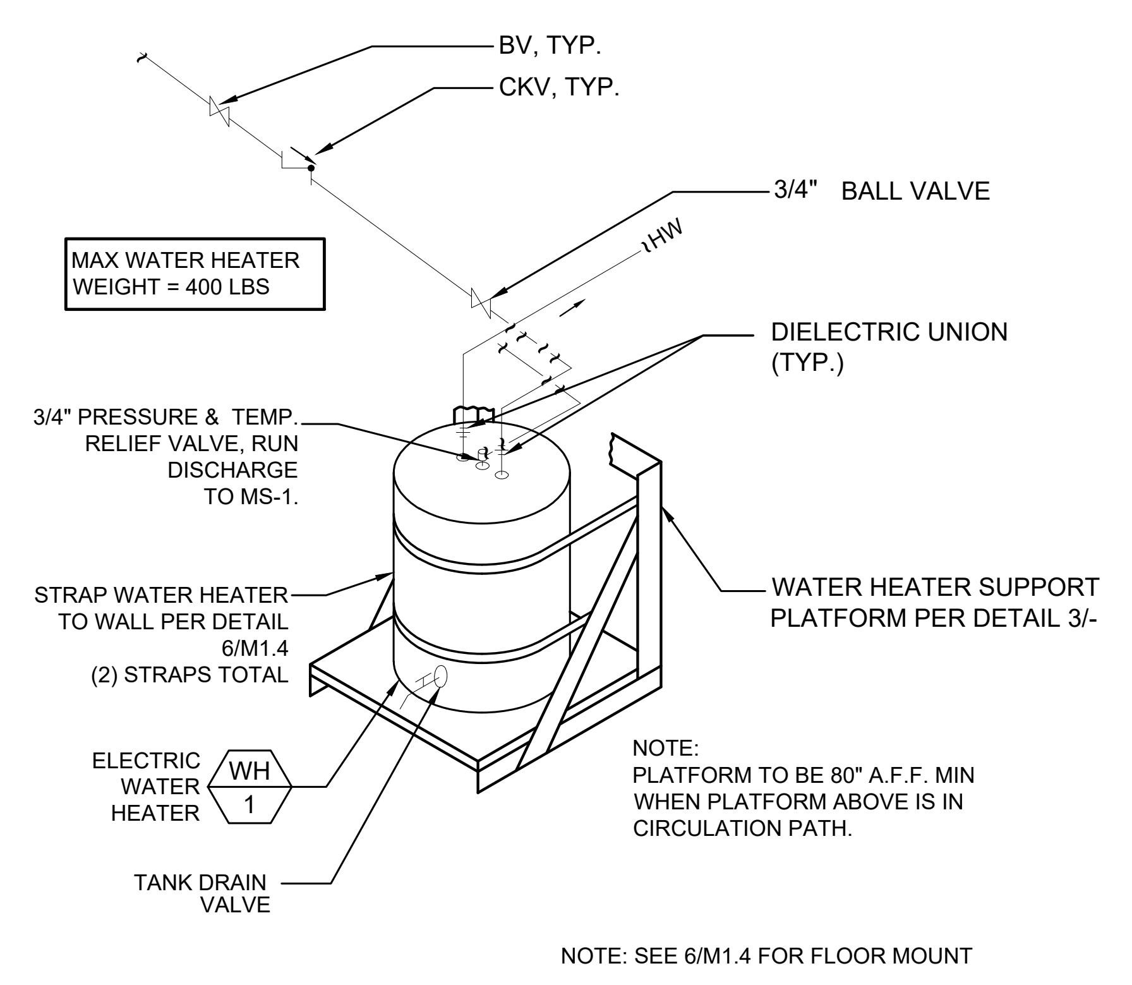
DRAWN BY:	AV
SCALE:	AS NOTED
DATE:	3/25/2026
PROJECT NO:	2003-26

SHEET TITLE:
RESTROOM OPTIONS
PLUMBING PLANS
& FIXTURE SCHEDULE

SHEET NUMBER:
P1.0

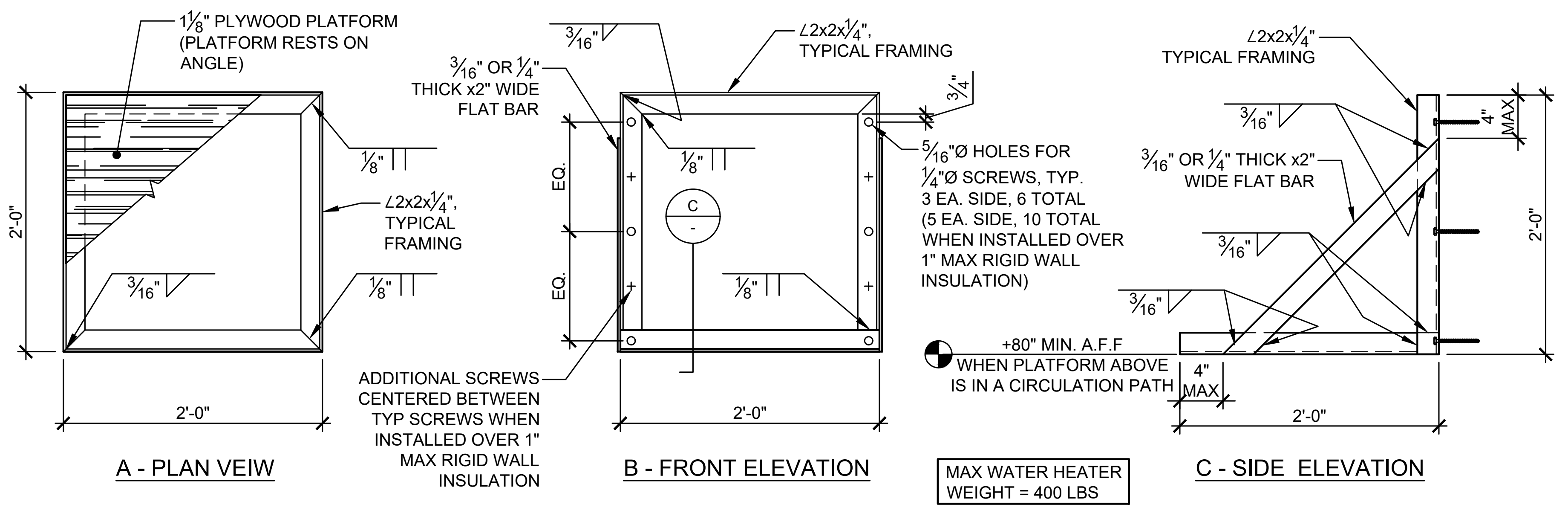
WATER HEATER SUPPORT DETAIL

NOT TO SCALE 1


BV, TYP.
CKV, TYP.
3/4" BALL VALVE
MAX WATER HEATER WEIGHT = 400 LBS
DIELECTRIC UNION (TYP.)
3/4" PRESSURE & TEMP. RELIEF VALVE, RUN DISCHARGE TO MS-1.
STRAP WATER HEATER TO WALL PER DETAIL 6/M1.4 (2) STRAPS TOTAL
WATER HEATER SUPPORT PLATFORM PER DETAIL 3/-
ELECTRIC WATER HEATER
WH 1
TANK DRAIN VALVE
NOTE: PLATFORM TO BE 80" A.F.F. MIN WHEN PLATFORM ABOVE IS IN CIRCULATION PATH.
NOTE: SEE 6/M1.4 FOR FLOOR MOUNT

WATER HEATER PLATFORM DETAIL

NOT TO SCALE 3

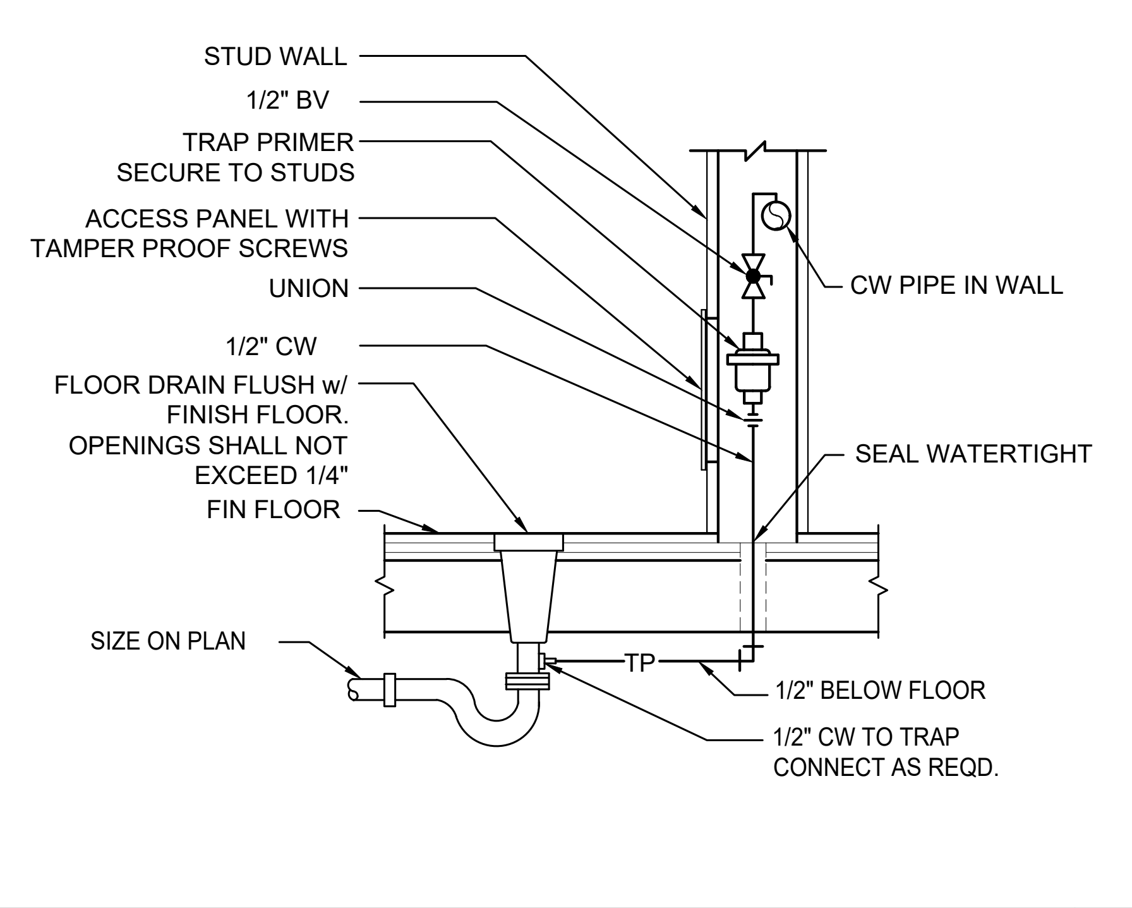

1⅛" PLYWOOD PLATFORM (PLATFORM RESTS ON ANGLE)
⅛"
∠2x2x¼", TYPICAL FRAMING
3/16"
2'-0"
A - PLAN VEIW
3/16" OR ¼" THICK x2" WIDE FLAT BAR
ADDITIONAL SCREWS CENTERED BETWEEN TYP SCREWS WHEN INSTALLED OVER 1" MAX RIGID WALL INSULATION
EQ.
C
5/16"Ø HOLES FOR ¼"Ø SCREWS, TYP. 3 EA. SIDE, 6 TOTAL (5 EA. SIDE, 10 TOTAL WHEN INSTALLED OVER 1" MAX RIGID WALL INSULATION)
3/4
B - FRONT ELEVATION
+80" MIN. A.F.F WHEN PLATFORM ABOVE IS IN A CIRCULATION PATH
4" MAX
MAX WATER HEATER WEIGHT = 400 LBS
C - SIDE ELEVATION

ATTACHMENT TO WOOD STUD WALL
ATTACH TO (2) 2x FLAT PER 3/S8.1 INTERNAILED w/ 0.131"Øx3" NAILS @ 12" O.C. STAGGERED w/ (3) ¼"Ø MIN. x4" LAG SCREWS EACH SIDE (3" MIN. PENETRATION INTO WOOD FRAMING).
MAY BE ATTACHED TO EXTERIOR WALL OR INTERIOR PARTITION WALL.

~~ATTACHMENT TO STEEL STUD WALL~~
~~ATTACH TO 14GA CHANNEL PER 14C/S9.2 w/ (3) ¼"Ø SDSTS EACH SIDE TYP, (5) ¼"Ø SDSTS EACH SIDE WHEN INSTALLED OVER 1" MAX RIGID WALL INSULATION.~~
~~MAY BE ATTACHED TO EXTERIOR WALL OR INTERIOR PARTITION WALL.~~

TRAP PRIMER DETAIL

NOT TO SCALE 6

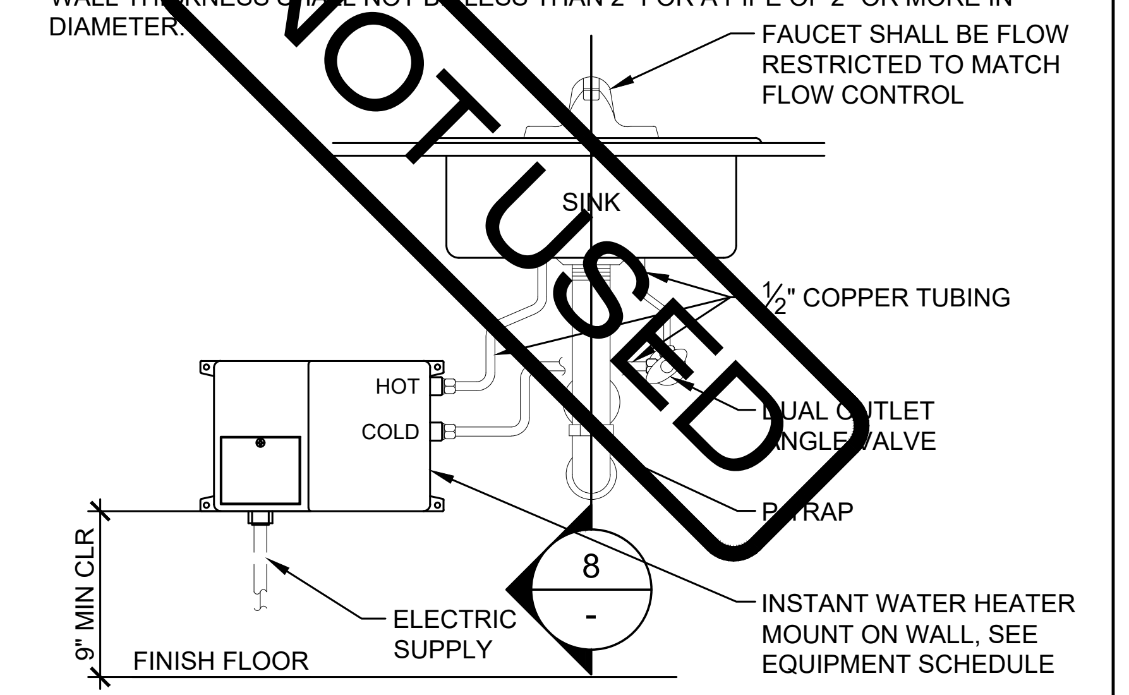

STUD WALL
1/2" BV
TRAP PRIMER SECURE TO STUDS
ACCESS PANEL WITH TAMPER PROOF SCREWS
UNION
CW PIPE IN WALL
1/2" CW
FLOOR DRAIN FLUSH w/ FINISH FLOOR. OPENINGS SHALL NOT EXCEED 1/4"
FIN FLOOR
SEAL WATERTIGHT
SIZE ON PLAN
TP
1/2" BELOW FLOOR
1/2" CW TO TRAP CONNECT AS REQD.

INSTANT WATER HEATER DETAIL

NOT TO SCALE 7

NOT USED

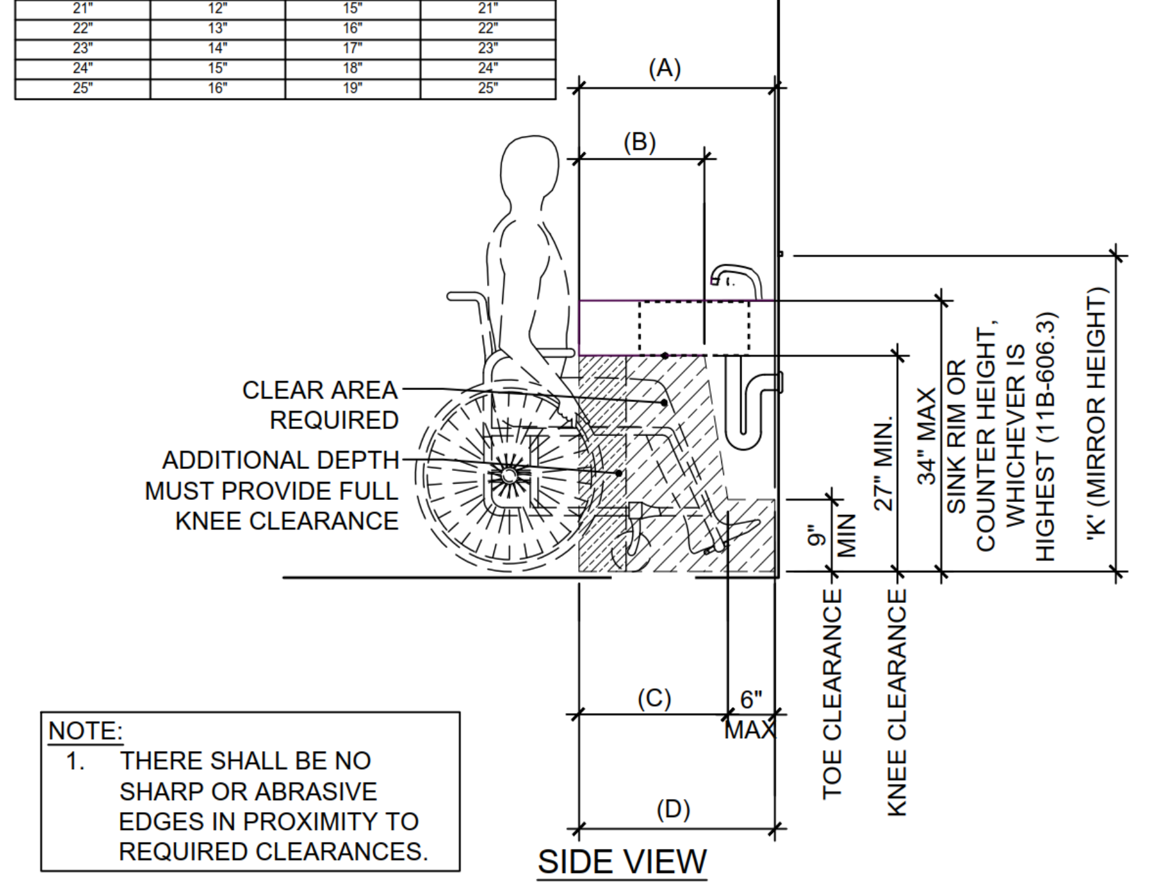
NOTES:
1. INSULATE WATER SUPPLY AND DRAIN PIPING AT ACCESSIBLE SINKS OR LAVS WITH "TRUEBRO® LAV GUARD 2" OR "TRUEBRO® SOFT GUARD PLUS" SHIELDS IWH SHALL NOT BE LOCATED IN THE REQUIRED TOE CLEARANCE. REFERANCE DETAIL 8 AND/OR 17 (AS APPLIES)
2. THERE SHALL BE NO SHARP OR ABRASIVE EDGES IN PROXIMITY TO REQUIRED CLEARANCES
3. PER CA ENERGY CODE SECTION 609.12, HOT WATER PIPING FROM WATER HEATER TO FIXTURE CONTROL VALVE IS REQUIRED TO BE INSULATED TO A MIN. WALL THICKNESS OF NOT LESS THAN THE DIAMETER OF A PIPE UP TO 2" DIAN. INSULATION WALL THICKNESS SHALL NOT BE LESS THAN 2" FOR A PIPE OF 2" OR MORE IN DIAMETER.


FAUCET SHALL BE FLOW RESTRICTED TO MATCH FLOW CONTROL
SINK
½" COPPER TUBING
HOT
COLD
DUAL OUTLET ANGLE VALVE
P-TRAP
9" MIN CLR
FINISH FLOOR
ELECTRIC SUPPLY
8
INSTANT WATER HEATER MOUNT ON WALL, SEE EQUIPMENT SCHEDULE

ACCESSIBLE CLASSROOM SINK

NOT TO SCALE 8

DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
17"	8"	11"	17"
18"	9"	12"	18"
19"	10"	13"	19"
20"	11"	14"	20"
21"	12"	15"	21"
22"	13"	16"	22"
23"	14"	17"	23"
24"	15"	18"	24"
25"	16"	19"	25"


(A)
(B)
CLEAR AREA REQUIRED
ADDITIONAL DEPTH MUST PROVIDE FULL KNEE CLEARANCE
9" MIN
27" MIN.
34" MAX SINK RIM OR COUNTER HEIGHT, WHICHEVER IS HIGHEST (11B-606.3)
'K' (MIRROR HEIGHT)
TOE CLEARANCE
KNEE CLEARANCE
(C)
6" MAX
(D)
SIDE VIEW

NOTE:
1. THERE SHALL BE NO SHARP OR ABRASIVE EDGES IN PROXIMITY TO THE REQUIRED CLEARANCES.

ACCESSIBLE HEIGHTS TABLE

10

HEIGHTS FOR ACCESSIBLE FEATURES IN TOILET FACILITIES

	FIXTURE & MEASUREMENT POINT	PRIMARY USERS				NOTES
		AGES 3-4	AGES 5-8	AGES 9-12	AGES 13 -ADULT	
A	TOILET OFFSET, CENTERLINE FROM FACE OF WALL	12"	12" - 15"	15" - 18"	17" - 18"	
B	TOILET SEAT HEIGHT	11" - 12"	12" - 15"	15" - 17"	17" - 19"	
C	TOILET CONTROLS (TOP OF FLUSH)	36" MAX.	36" MAX.	36" MAX.	44" MAX.	FLUSH CONTROLS SHALL BE LOCATED ON OPEN SIDE OF TOILET.
D	TOP OF GRAB BARS GRIPPING SURFACE	18" - 20"	20" - 25"	25" - 27"	33" - 36"	
E	TOILET PAPER DISPENSER OUTLET (A.F.F., TO CENTERLINE OF OUTLET OR ROLL)	14"	14" - 17"	17" - 19"	19" MIN.	CENTERLINE OF DISPENSER OUTLET SHALL BE BETWEEN 7" TO 9" IN FRONT OF THE TOILET. OUTLET OF DISPENSER MUST BE BELOW GRAB BAR. DISPENSER (INCLUDING FULL TOILET PAPER ROLL) MUST NOT ENCROACH INTO REQ'D GRAB BAR CLEARANCE.
F	TOILET SEAT COVER DISPENSER, HEIGHT TO TOP OF OUTLET	24" - 32"	30" - 32"	32" - 36"	40" MAX.	
G	URINAL HEIGHT (LIP HEIGHT)	12" - 13" SUGGESTED (17" MAX.)	13" - 15" SUGGESTED (17" MAX.)	15" - 17" SUGGESTED (17" MAX.)	17" MAX.	
H	URINAL FLUSH CONTROL HEIGHT	44" MAX.	44" MAX.	44" MAX.	44" MAX.	
I	LAV/SINK RIM HEIGHT OR COUNTER	24" - 28" SUGGESTED (31 MAX.)	31" MAX.	31" MAX.	34" MAX.	
J	LAV/SINK KNEE CLEARANCE	SIDE APPROACH	AGE 6-8, 24" MIN. (AGE 5, SIDE APPROACH)	24" MIN.	27" MIN. (29" MIN. AT APRON FOR LAVATORY)	29" MIN TO BOTTOM FRONT EDGE OF LAV; 27" MIN @ 8" DEEP
K	MIRROR (ABOVE LAVATORY, SINK OR COUNTERTOP), LOWEST POINT OF REFLECTIVE SURFACE	24" - 32" SUGGESTED (40" MAX.)	30" - 32" SUGGESTED (40" MAX.)	32" - 36" SUGGESTED (40" MAX.)	40" MAX.	MIRROR NOT LOCATED ABOVE LAVATORY OR COUNTERTOP SHALL BE MOUNTED SO THAT LOWEST EDGE OF REFLECTING SURFACE IS 35" MAX. ABOVE FINISH FLOOR.
L	DISPENSERS, DRYERS, HEIGHT TO TOP OF OUTLET, HANDLE OR OPERATING MECHANISM (WHICHEVER IS HIGHEST)	24" - 32" SUGGESTED (40" MAX.)	30" - 32" SUGGESTED (40" MAX.)	32" - 36" SUGGESTED (40" MAX.)	40" MAX	ACCESSORIES SHALL COMPLY WITH 11B-307.2
M	LO DRINKING FOUNTAIN, HEIGHT TO BUBBLER	30" MAX *	30" MAX. *	30" MAX. *	36" MAX.	KNEE CLEARANCE 27" H. AT 8" DEEP IS REQ'D IF HIGHER THAN 30" A.F.F.
N	HI DRINKING FOUNTAIN, HEIGHT TO BUBBLER	38" - 43"	38" - 43"	38" - 43"	38" - 43"	

NOTES:
1. THIS TABLE AND RELATED DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF CALIF. TITLE 24 (2022 C.B.C. SECTION 11B-601) AND IS SHOWN HERE ONLY AS AN AID FOR CONSTRUCTION AND INSTALLATION.
2. ACCESSORIES ARE NOT IN MANUFACTURER'S SCOPE OF WORK.
3. DIMENSIONS GIVEN ARE FROM FACE OF FINISH, UNLESS OTHERWISE NOTED.
4. NOT ALL ITEMS LISTED MAY OCCUR IN THE PROJECT.
5. HEIGHTS CHOSEN FOR CHILDREN'S WATER CLOSETS & ACCESSORIES D & E SHALL BE CONSISTENTLY APPLIED FOR THE AGE GROUP.

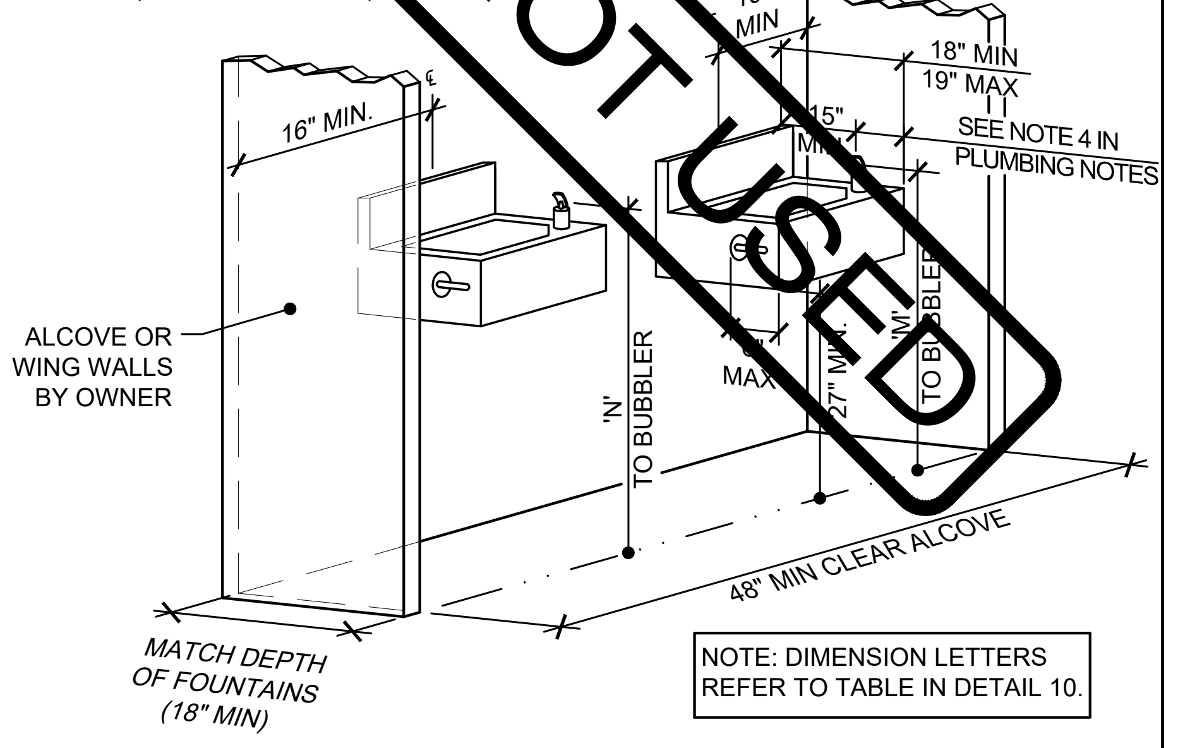
M* WHERE A D.F. FOR CHILDREN IS MOUNTED MAXIMUM 30" A.F.F., THE SPOUT SHALL BE MAXIMUM 3-1/2" FROM THE FRONT EDGE OF THE UNIT

HI-LO DRINKING FOUNTAIN

NOT TO SCALE 11

NOT USED

NOTE:
ALL DRINKING FOUNTAINS SHALL BE LOCATED COMPLETELY WITHIN ALCOVES, BETWEEN WING WALLS, OR OTHERWISE POSITIONED SO AS NOT TO ENCROACH INTO PEDESTRIAN WAYS (PER C.B.C. SECTION 11B-602.9), AND SHALL BE ACCESSIBLE PER 11B-206.5, SHALL BE APPROACHABLE PER SECTION 11B-305.6 AND HAVE MANEUVERING CLEARANCES PER SECTION 11B-305.7.
THE ACCESSIBLE D.F. SHALL HAVE 30"X48" CLEAR FLOOR SPACE, WITH KNEE AND TOE CLEARANCE POSITIONED FOR FORWARD APPROACH MIN. 17" UNDER AND CENTERED ON THE UNIT. (11B-602.2, 11B-306)

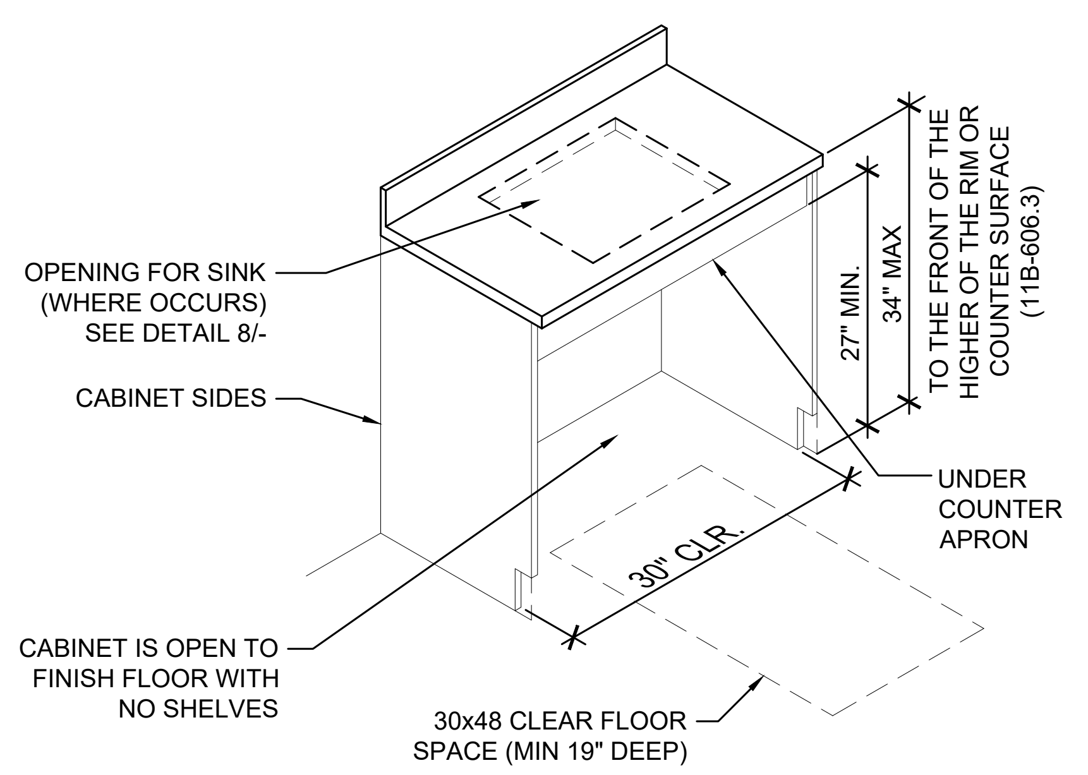

16" MIN.
16" MIN
18" MIN
19" MAX
15" MIN
SEE NOTE 4 IN PLUMBING NOTES
ALCOVE OR WING WALLS BY OWNER
'N' TO BUBBLER
'M' TO BUBBLER
27" MIN
48" MIN CLEAR ALCOVE
MATCH DEPTH OF FOUNTAINS (18" MIN)

NOTE: DIMENSION LETTERS REFER TO TABLE IN DETAIL 10.

ACCESSIBLE CABINET DETAIL

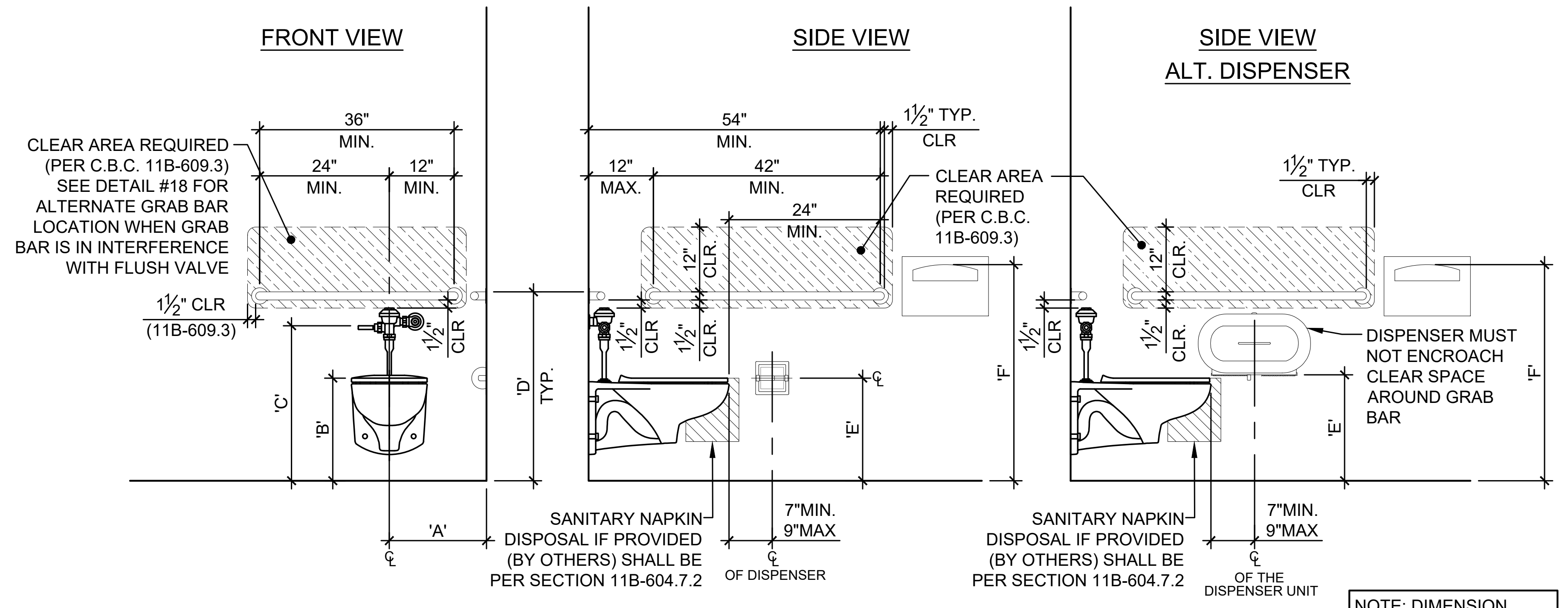
NOT TO SCALE 12

NOTES:
1. MODIFY BASE AS SHOWN FOR ADULT WHEELCHAIR ACCESS.
2. CABINET IS FOR ADULT USE ONLY.
3. ALL EXTERIOR SURFACES TO BE PLASTIC LAMINATE.
4. CABINET DOORS ARE NOT ALLOWED @ SINKS.
5. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES BELOW COUNTER


OPENING FOR SINK (WHERE OCCURS) SEE DETAIL 8/-
CABINET SIDES
34" MAX TO THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE (11B-606.3)
27" MIN.
UNDER COUNTER APRON
30" CLR
CABINET IS OPEN TO FINISH FLOOR WITH NO SHELVES
30x48 CLEAR FLOOR SPACE (MIN 19" DEEP)

ACCESSIBLE TOILET AND ACCESSORIES (ADULT)

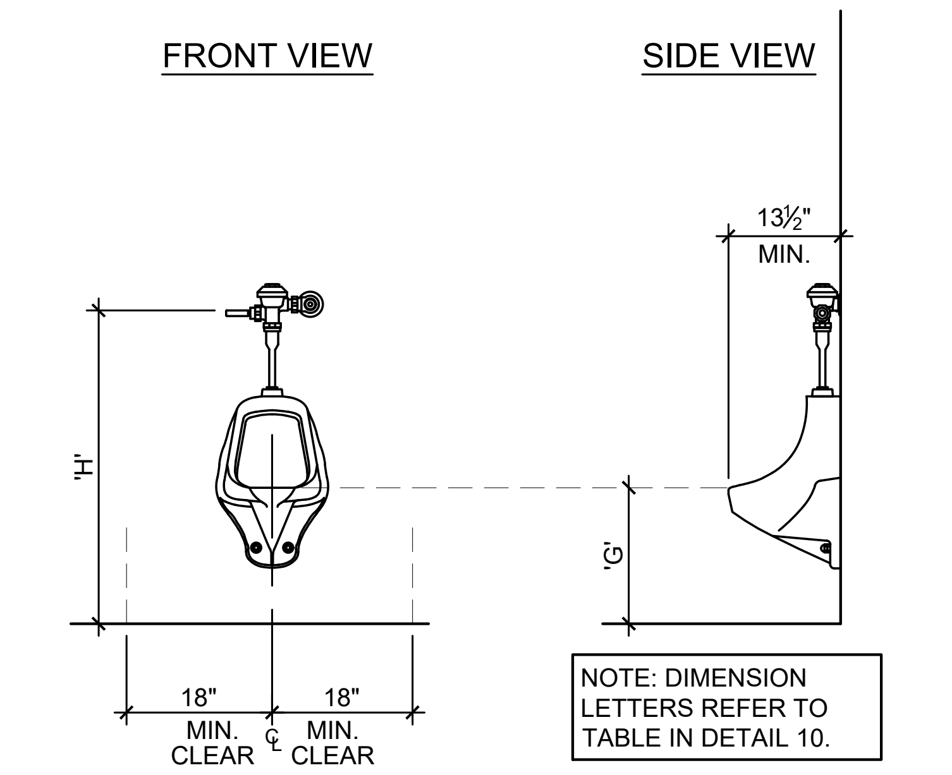
SCALE: 1/2" = 1'-0" 14


FRONT VIEW
SIDE VIEW
SIDE VIEW
ALT. DISPENSER
CLEAR AREA REQUIRED (PER C.B.C. 11B-609.3) SEE DETAIL #18 FOR ALTERNATE GRAB BAR LOCATION WHEN GRAB BAR IS IN INTERFERENCE WITH FLUSH VALVE
1½" CLR (11B-609.3)
36" MIN.
24" MIN.
12" MIN.
54" MIN.
12" MAX.
42" MIN.
24" MIN.
1½" TYP. CLR
CLEAR AREA REQUIRED (PER C.B.C. 11B-609.3)
'A'
'B'
'C'
'D'
'E'
'F'
TYP.
SANITARY NAPKIN DISPOSAL IF PROVIDED (BY OTHERS) SHALL BE PER SECTION 11B-604.7.2
7"MIN. 9"MAX
OF DISPENSER
DISPENSER MUST NOT ENCROACH CLEAR SPACE AROUND GRAB BAR
OF THE DISPENSER UNIT

NOTE: DIMENSION LETTERS REFER TO TABLE IN DETAIL 10.

ACCESSIBLE URINAL

SCALE: 1/2" = 1'-0" 15



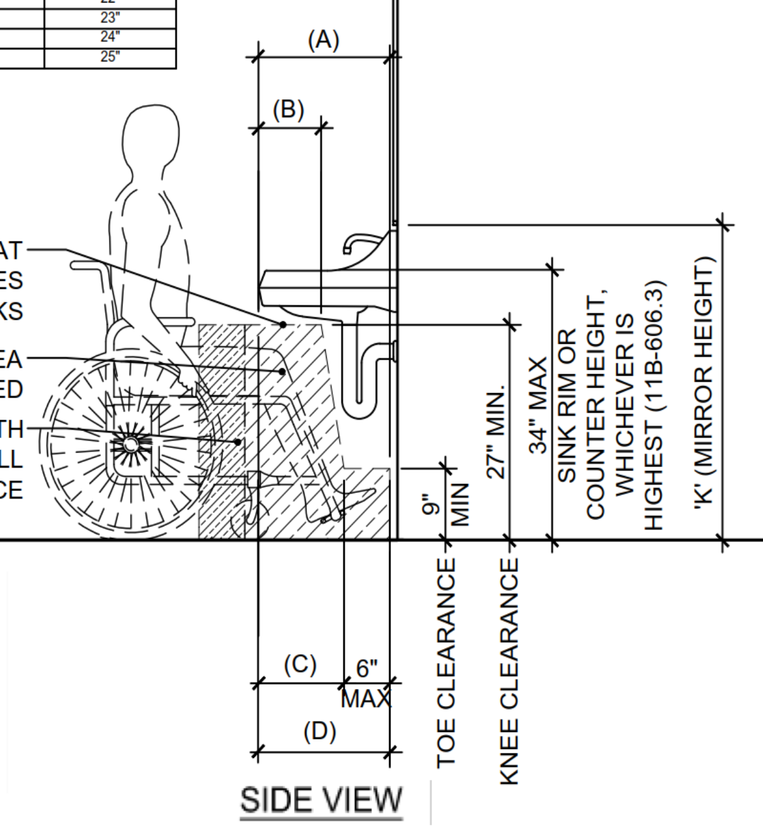
NOTE: DIMENSION LETTERS REFER TO TABLE IN DETAIL 10.

NOTE: 18" MIN. CLEAR IF PARTITION / WALL EXCEED 24" PROJECTION

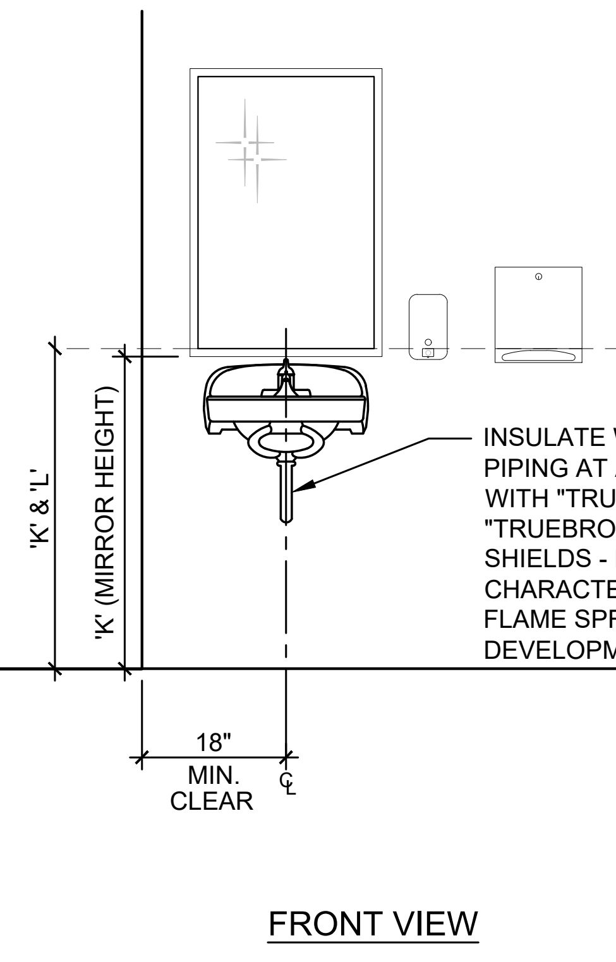
LAVATORY & ACCESSORIES

SCALE: 1/2" = 1'-0" 17

DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
17"	8"	11"	17"
18"	9"	12"	18"
19"	10"	13"	19"
20"	11"	14"	20"
21"	12"	15"	21"
22"	13"	16"	22"
23"	14"	17"	23"
24"	15"	18"	24"
25"	16"	19"	25"


(A)
(B)
29" MIN CLR AT FRONT EDGE DOES NOT APPLY TO SINKS
CLEAR AREA REQUIRED
ADDITIONAL DEPTH MUST PROVIDE FULL KNEE CLEARANCE
9" MIN
27" MIN.
34" MAX SINK RIM OR COUNTER HEIGHT, WHICHEVER IS HIGHEST (11B-606.3)
'K' (MIRROR HEIGHT)
TOE CLEARANCE
KNEE CLEARANCE
(C)
6" MAX
(D)
SIDE VIEW

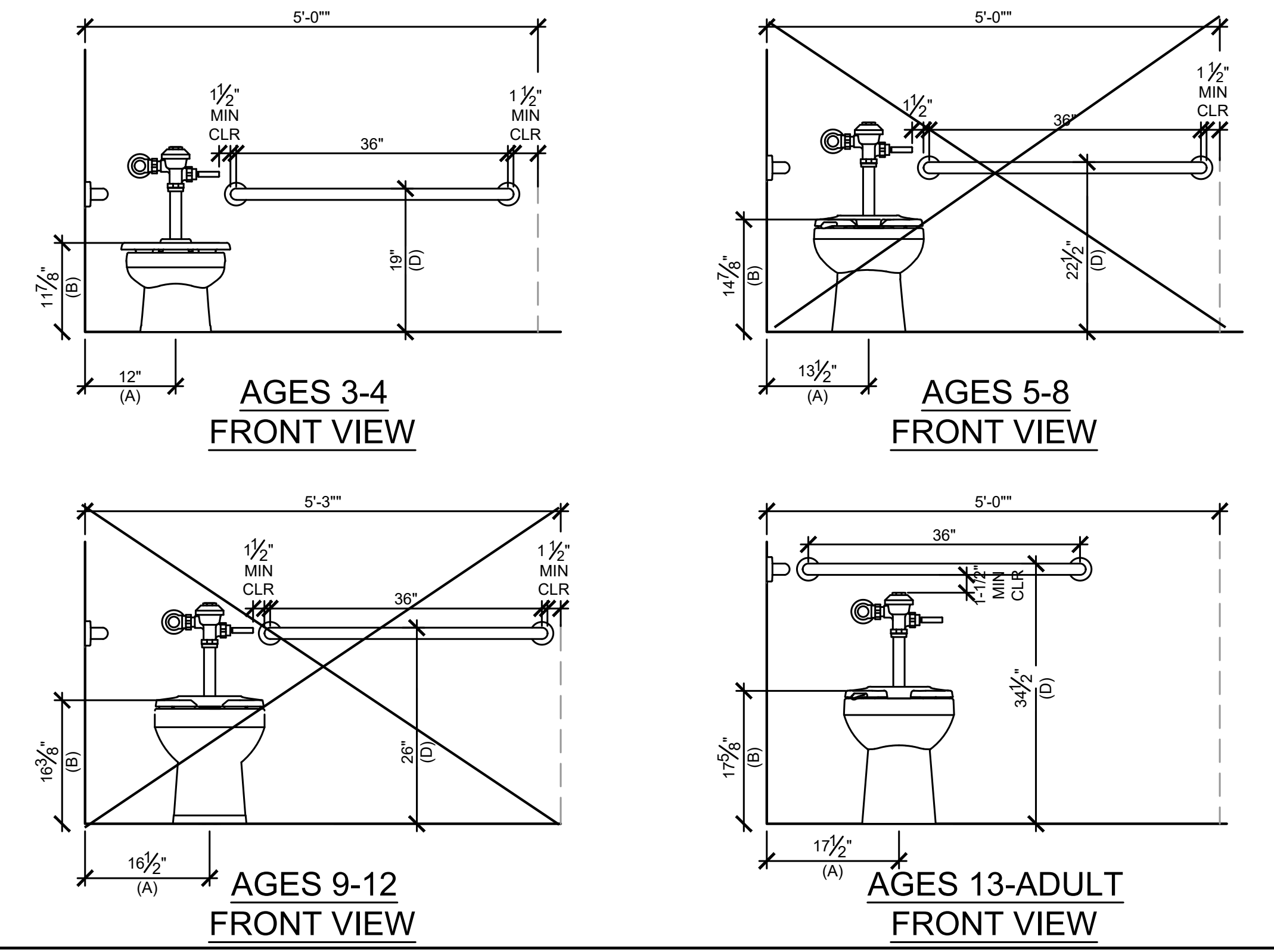
NOTES:
1. THERE SHALL BE NO SHARP OR ABRASIVE EDGES IN PROXIMITY TO REQUIRED CLEARANCES
2. DIMENSION LETTERS REFER TO TABLE IN DETAIL 10/-



INSULATE WATER SUPPLY AND DRAIN PIPING AT ACCESSIBLE LAVATORIES WITH "TRUEBRO® LAV GUARD 2" OR "TRUEBRO® SOFT GUARD PLUS" SHIELDS - BURNING CHARACTERISTICS: ASTM E84 FLAME SPREAD 25 & SMOKE DEVELOPMENT 450

ALTERNATE GRAB BAR SHIFT DETAIL

SCALE: 1/2" = 1'-0" 18



WHERE AN ADMINISTRATIVE AUTHORITY REQUIRES FLUSH CONTROLS FOR FLUSH VALVES TO BE LOCATED IN A POSITION THAT CONFLICTS WITH THE LOCATION OF THE REAR GRAB BAR, THEN THE REAR GRAB BAR SHALL BE PERMITTED TO BE SPLIT OR SHIFTED TO THE OPEN SIDE OF THE TOILET AREA.

(PER CBC 11B-604.5.2 EXCEPTION 2)

NOTES:
1. DIMENSION LETTERS REFER TO TABLE IN DETAIL 10.
2. AT LOCATIONS WHERE GRAB BAR MAY BE LOWER IT MUST CLEAR THE FLUSH VALVE HANDLE AS SHOWN

PLUMBING NOTES

19

1. DWV PIPING SHALL BE ABS PLASTIC
2. COLD WATER SUPPLY SHALL BE TYPE L COPPER
3. MIN SLOPE 1/4" PER FOOT MAY SLOPE 4" CI AT 1/8" PER FOOT VENTS SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, AIR INTAKE OR VENT SHAFT, NOR LESS THAN 3FT. IN EVERY DIRECTION FROM ANY LOT LINE; ALLEY AND STREET EXCEPTED; EXTEND 6" ABOVE THE ROOF
4. 11B-602.6 WATER FLOW: IF THE SPOUT IS LOCATED LESS THAN 3 INCHES FROM THE FRONT OF THE UNIT, THE ANGLE OF THE STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE LOCATED BETWEEN 3 INCHES AND 5 INCHES FROM THE FRONT OF THE UNIT, THE ANGLE OF THE STREAM SHALL BE 15 DEGREES MAXIMUM RELATIVE TO THE FRONT FACE (ORIENTATION OF WALL SURFACE).

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

FORM®

SITE SPECIFIC PROJECT NAME
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.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ 2022 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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

REVISIONS
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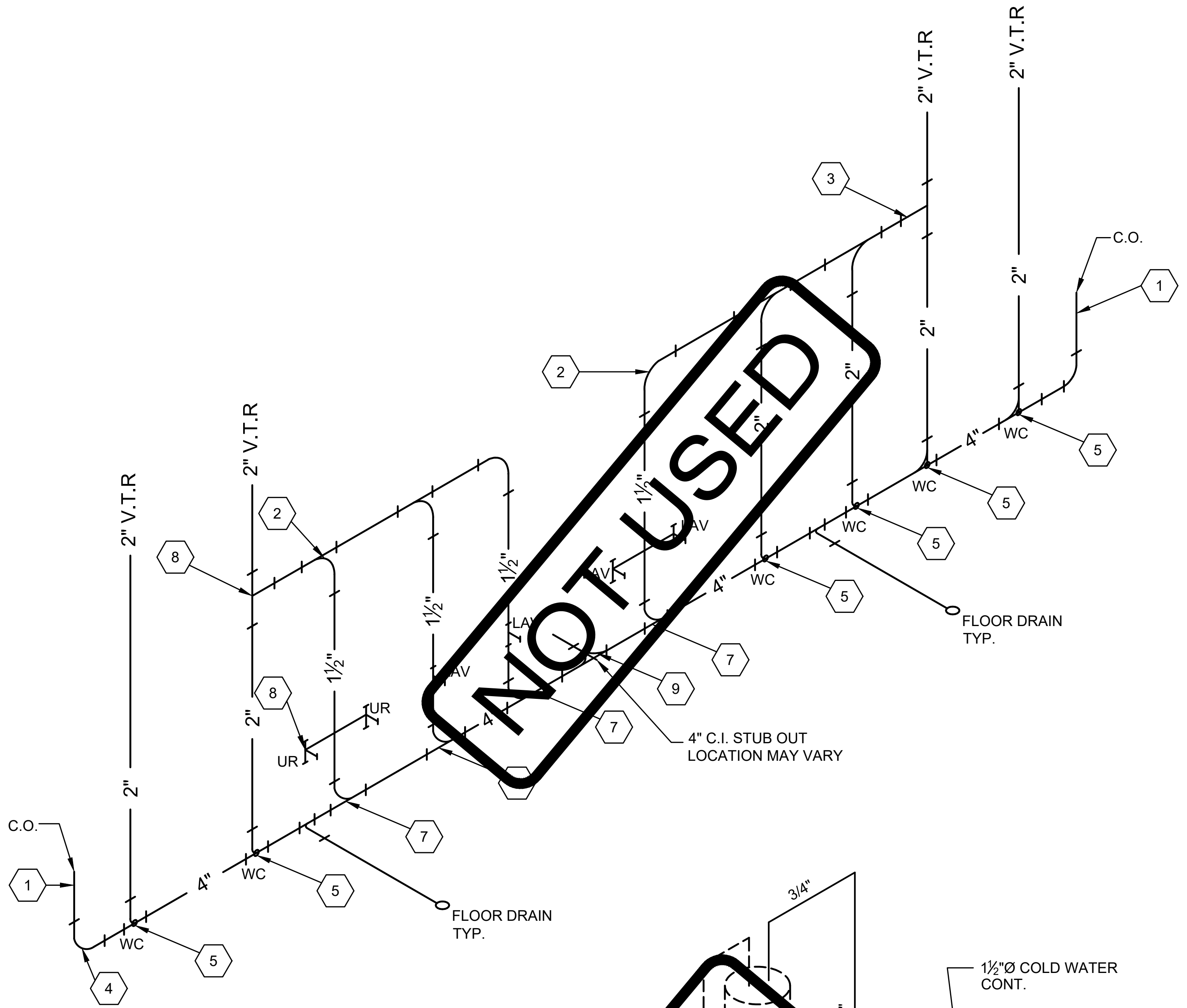
DRAWN BY:	
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-XX

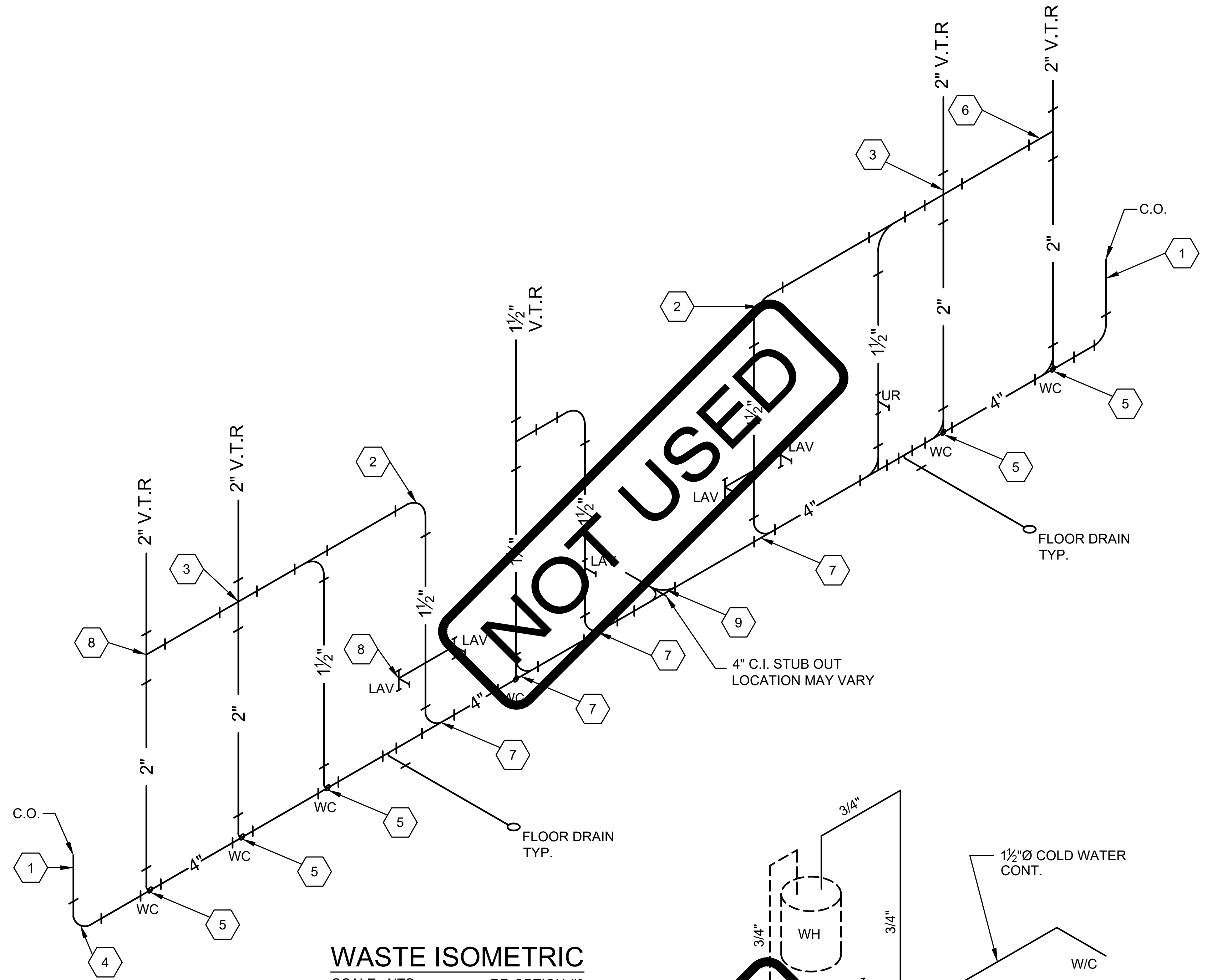
SHEET TITLE:
PLUMBING DETAILS
&
ACCESSIBLE DETAILS

SHEET NUMBER:
P2.0



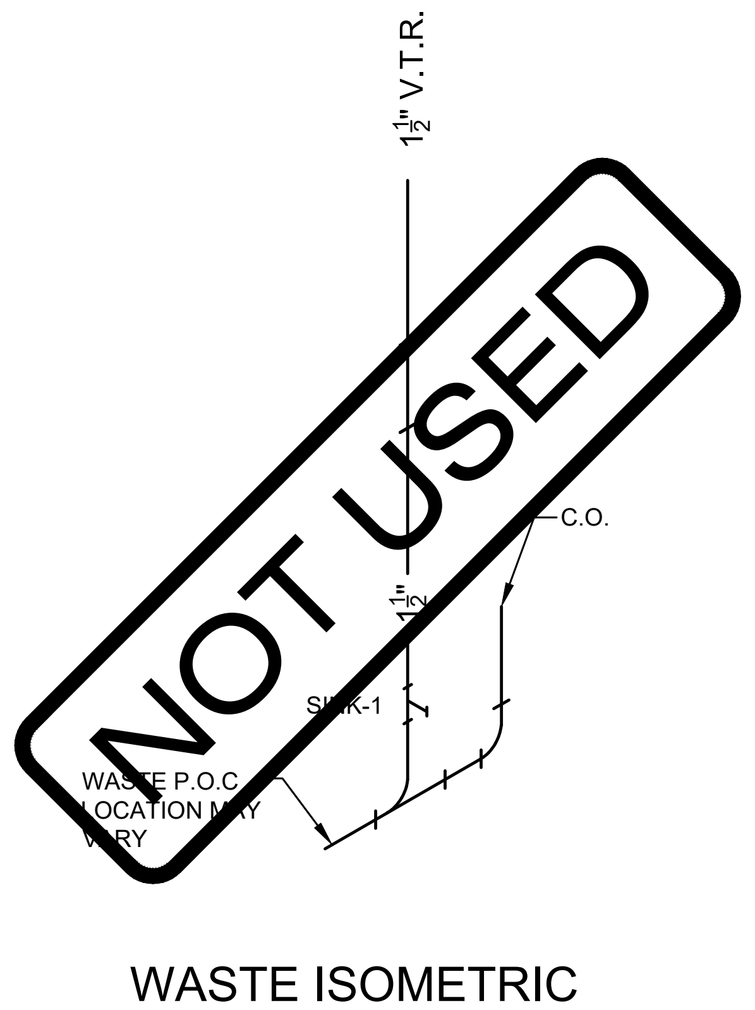
WASTE ISOMETRIC

SCALE : NTS RR OPTION #1



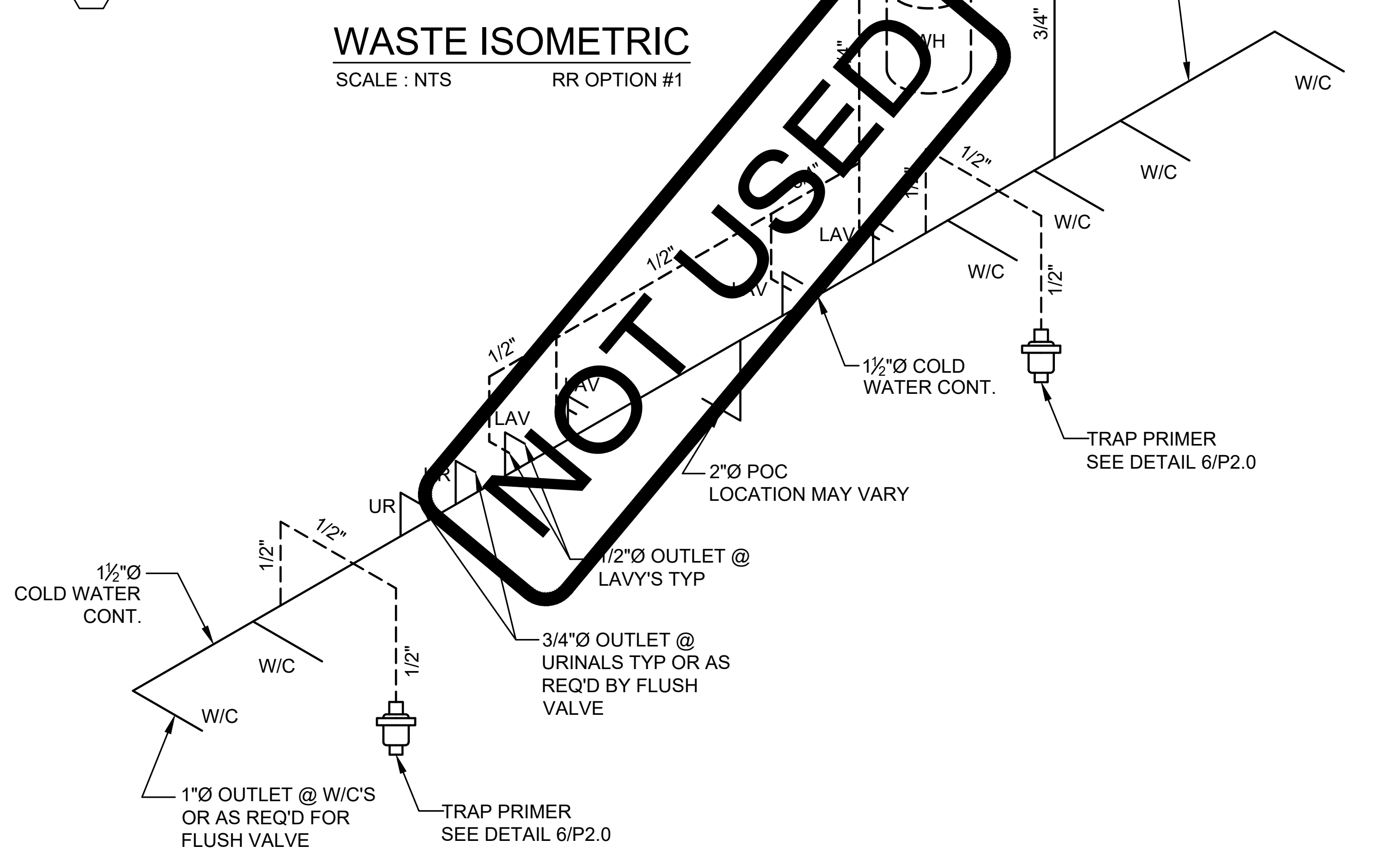
WASTE ISOMETRIC

SCALE : NTS RR OPTION #2



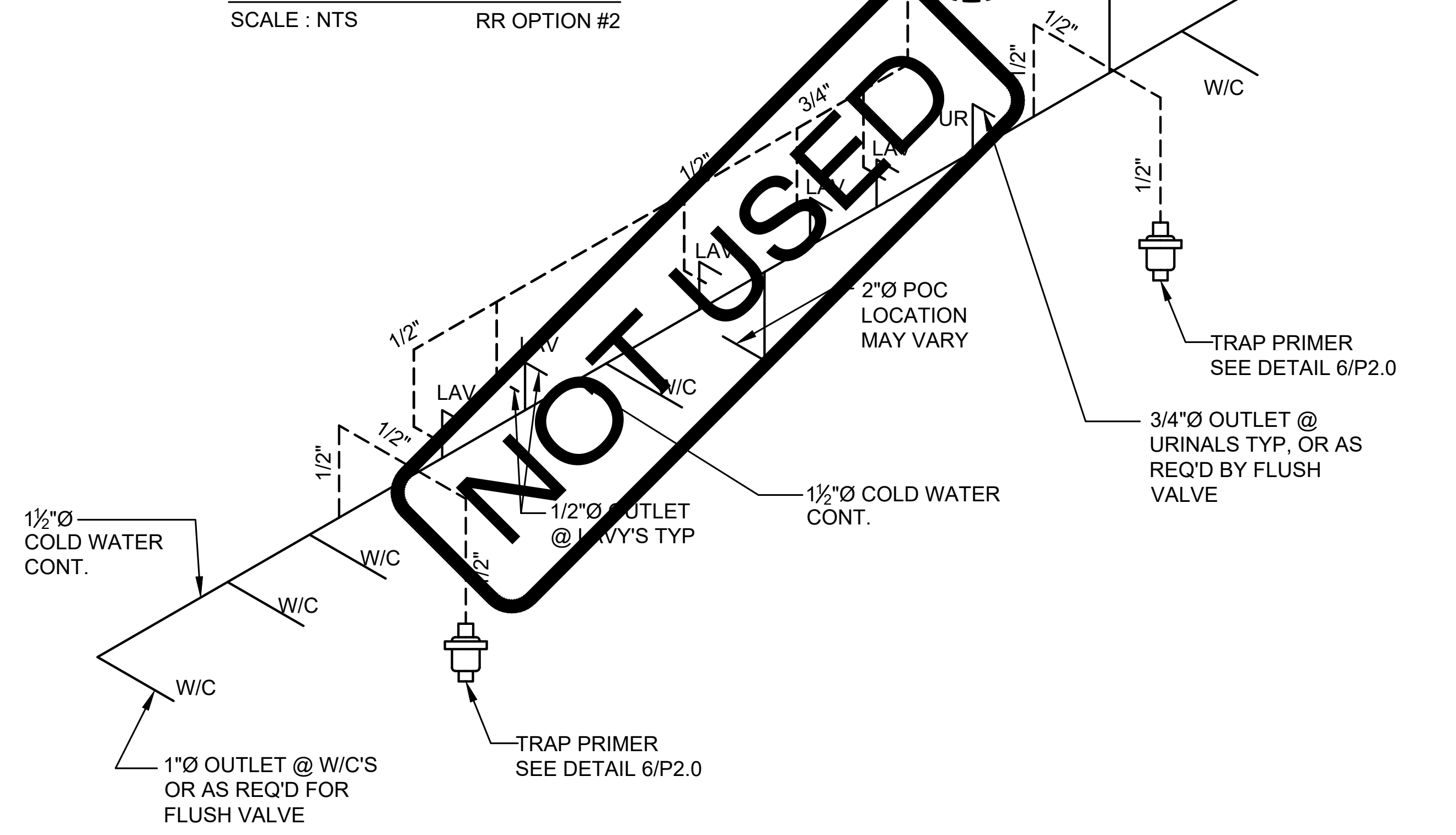
WASTE ISOMETRIC

SCALE : NTS CLASSROOM SINK OPTION


NOT USED
WH
3/4"
1½"Ø COLD WATER CONT.
W/C
UR
LAV
1/2"
1½"Ø COLD WATER CONT.
2"Ø POC LOCATION MAY VARY
1/2"Ø OUTLET @ LAVY'S TYP
3/4"Ø OUTLET @ URINALS TYP OR AS REQ'D BY FLUSH VALVE
TRAP PRIMER SEE DETAIL 6/P2.0
1"Ø OUTLET @ W/C'S OR AS REQ'D FOR FLUSH VALVE

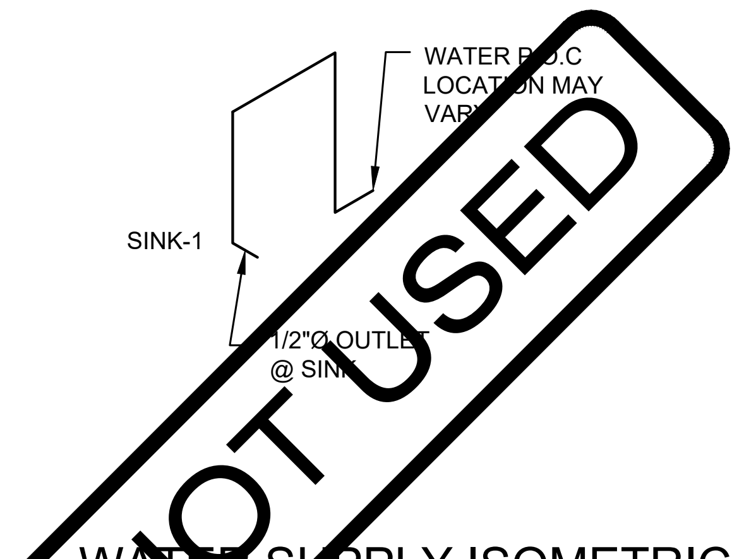
## WATER SUPPLY ISOMETRIC

SCALE : NTS RR OPTION #1


NOT USED
WH
3/4"
1½"Ø COLD WATER CONT.
W/C
UR
LAV
1/2"
2"Ø POC LOCATION MAY VARY
3/4"Ø OUTLET @ URINALS TYP, OR AS REQ'D BY FLUSH VALVE
TRAP PRIMER SEE DETAIL 6/P2.0
1/2"Ø OUTLET @ LAVY'S TYP
1½"Ø COLD WATER CONT.
1"Ø OUTLET @ W/C'S OR AS REQ'D FOR FLUSH VALVE

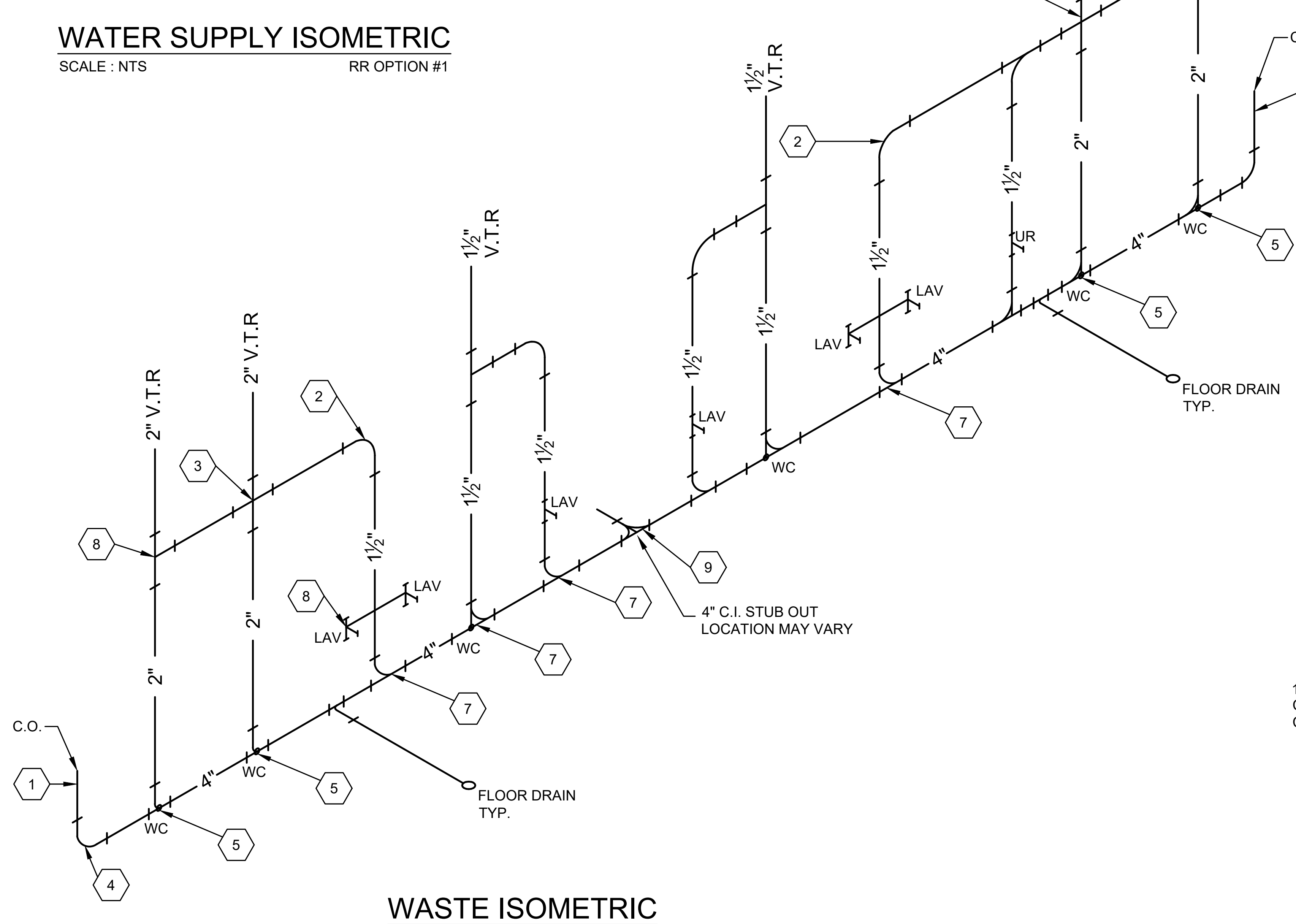
## WATER SUPPLY ISOMETRIC

SCALE : NTS RR OPTION #2



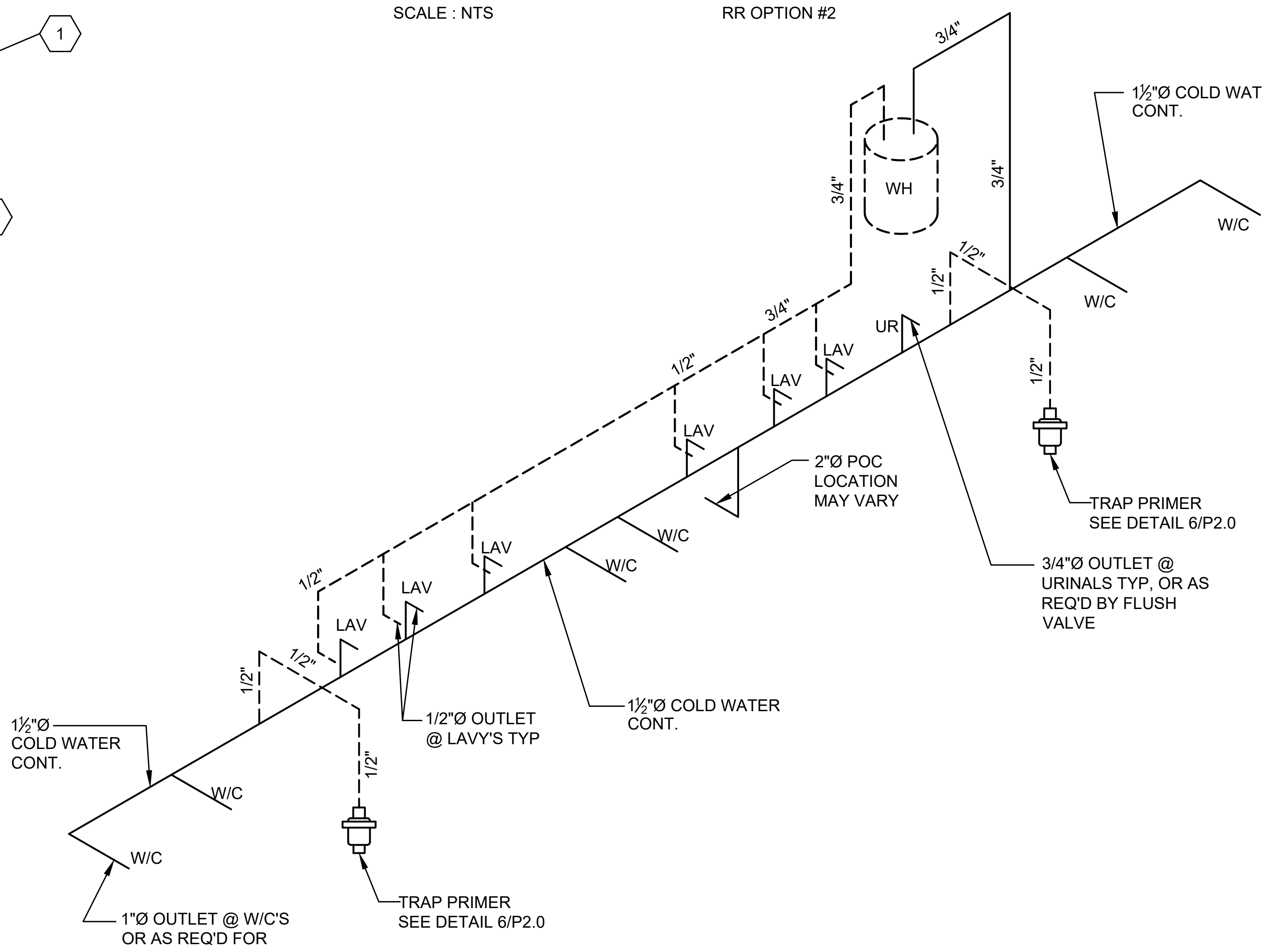
## WATER SUPPLY ISOMETRIC

SCALE : NTS CLASSROOM SINK OPTION



WASTE ISOMETRIC

SCALE : NTS RR OPTION #3


WH
3/4"
1½"Ø COLD WATER CONT.
W/C
UR
LAV
1/2"
2"Ø POC LOCATION MAY VARY
TRAP PRIMER SEE DETAIL 6/P2.0
3/4"Ø OUTLET @ URINALS TYP, OR AS REQ'D BY FLUSH VALVE
1/2"Ø OUTLET @ LAVY'S TYP
1½"Ø COLD WATER CONT.
1½"Ø COLD WATER CONT.
1"Ø OUTLET @ W/C'S OR AS REQ'D FOR FLUSH VALVE

## WATER SUPPLY ISOMETRIC

SCALE : NTS RR OPTION #3

KEY NOTES

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124134 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/08/26

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

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PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

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.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122042 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 02/15/2024~~

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

MANNY D FRISCH
No. S3380

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

REVISIONS

1	
2	
3	
4	

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

SHEET TITLE:

PLUMBING
ISOMETRICS DRAWINGS

SHEET NUMBER:

P3.0