SERIAL NUMBERS:
26-101-001
26-101-002
26-101-003
26-101-004
26-101-005
26-101-006
26-101-007
26-101-008
26-101-009
26-101-010
26-101-011

AMS®
American Modular Systems

# STOCKPILE
# (11) 36'x40' BUILDINGS

## 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 | 2022 EDITION |
| NFPA 72 | NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED)<br>(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 INCLUDED IN THIS PC APPROVAL. (NOTE: SEE BUILDING DATA THIS SHEET FOR FIRE SPRINKLER SYSTEM WEIGHT INCLUDED IN BUILDING DESIGN)~~
6. FIRE SERVICE UNDERGROUND SHALL BE REVIEWED AS A SITE SPECIFIC APPLICATION. WATER SUPPLY SHALL BE DESIGNED TO MEET THE 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. A SEPARATE NON-PC DSA APPLICATION NUMBER (SITE SPECIFIC JOB OR STOCKPILE) IS REQUIRED FOR DESIGN & ROOF-TOP INSTALLATION OF SOLAR PANEL SYSTEMS, ITS ANCHORAGE & SUPPORT STRUCTURE ABOVE THE ROOF FRAMING. THE ROOF FRAMING IS DESIGNED FOR SOLAR PANELS TO BE INSTALLED FLAT ON THE ROOF. (NOTE: SEE BUILDING DATA THIS SHEET FOR SOLAR PANEL SYSTEM WEIGHT & WIND LOAD INCLUDED IN BUILDING DESIGN FOR ROOF-TOP.) SUBMITTALS OF ROOF-TOP SOLAR SYSTEM SHALL NOT BE SUBMITTED AS AN OVER-THE-COUNTER SUBMITTAL.
10. IF THE STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND SITE SPECIFIC PROJECT SUBMITTAL IS REQUIRED. IF THE SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.
11. THIS 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 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 THE 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. ACCEPTANCE TESTS BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS, MECHANICAL SYSTEMS, FENESTRATION, AND PROCESS EQUIPMENT BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.
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<br>ASCE 7-16 SECTION28.5.3<br>SIMPLIFIED PROCEDURE | V = 99 MPH BASIC WIND SPEED<br>EXPOSURE = C<br>INTERNAL PRESSURE COEFF., $GC_{P,I}$ = ±0.18<br>ROOF ANGLE = 1.2 DEGREES<br>RISK CATEGORY II<br>$K_{ZT}$ = 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   ☐ 150 (NON-STORAGE) |
| 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 (1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED FOR WIND & SEISMIC LOAD COMBINATIONS UNLESS USING ALTERNATE BASIC LOAD COMBINATIONS PER CBC 1605A.3.2) |
| FLOOD HAZARD AREA | NO (SEE GENERAL NOTE #11 THIS SHEET) |
| RAIN INTENSITY (IN/HR) | 3" MAX. |
| BUILDING AREA (SQ. FT.) | 960 MIN. THRU 4800 MAX. |
| 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' MODULES (2 MODULES MINIMUM) |
| FOUNDATION TYPE | 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 | ☒ DURATEMP 303 | |
| HVAC (SEE M1.7A FOR HVAC TYPES) | ☐ INTERIOR FLOOR MOUNTED | ☒ EXTERIOR WALL MOUNTED | ☐ SPLIT SYSTEM | ☐ ROOF MOUNTED |
| ROOFING | ☒ 3" x 20 GA. STANDING SEAM | ☐ 3" x 22 GA. STANDING SEAM (INSTALLED OVER SHEATHING) | ☐ BUILT-UP ROOFING | ☐ SINGLE PLY ROOFING |
| 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: 5'-0" | ENCLOSED - 7'-0" MAX | |
| REAR OVERHANG | ☐ NO | ☒ YES - LENGTH: 2'-9" | ENCLOSED - 7'-0" MAX | |
| SOLATUBE ON ROOF | ☒ NO | ☐ YES | | |
| FIRE SPRINKLERS | ☒ NO | ☐ YES (SEE GENERAL NOTES #5 - #7 THIS SHEET) | | |
| 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 VALUES

SITE SPECIFIC BASIC WIND SPEED = 99 MPH

WIND EXPOSURE = C

## SITE SPECIFIC SEISMIC VALUES

SITE SPECIFIC $S_S$ = 2.026

SITE SPECIFIC $S_1$ = 1.001

SITE CLASS = D = DEFAULT

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

## PC BUILDING SEISMIC DESIGN CRITERIA

Ie = 1.0
$\Omega_O$ = 3.0
T = 0.240s
$C_d$ = 3.0
R = 3.5 (OMF)
$\rho$ = 1.0
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:
$S_{DS}$ = 1.62

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

$S_s$ = 2.026 MAX (SITE)
1.418 (DESIGN)*
$F_a$ = 1.2
$S_{DS}$ = 1.62 MAX (SITE)
1.13 (DESIGN)*
$S_1$ = 1.001 MAX (SITE & DESIGN)
$F_v$ = 1.7
$S_{D1}$ = 1.13 MAX (SITE & DESIGN)
$C_s$ = 0.324 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, EXCEPTION 1)
DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16

$S_s$ = 2.332 MAX (SITE)
2.332 (DESIGN)*
$F_a$ = 1.0
$S_{DS}$ = 2.22 MAX (SITE)
1.55 (DESIGN)*
$S_1$ = 1.372 MAX (SITE & DESIGN)
$F_v$ = 1.7
$S_{D1}$ = 1.55 MAX (SITE & DESIGN)
$C_s$ = 0.444 W (DESIGN)*

### ☐ WITH SOILS REPORT - SITE CLASS "C"

DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16

$S_s$ = 2.776 MAX (SITE)
1.943 (DESIGN)*
$F_a$ = 1.2
$S_{DS}$ = 2.22 MAX (SITE)
1.55 (DESIGN)*
$S_1$ = 1.666 MAX (SITE & DESIGN)
$F_v$ = 1.4
$S_{D1}$ = 1.55 MAX (SITE & DESIGN)
$C_s$ = 0.444 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. DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16

$S_s$ = 1.943 MAX (SITE)
1.943 (DESIGN)
$F_a$ = 1.2
$S_{DS}$ = 1.55 MAX (SITE)
1.55 (DESIGN)
$S_1$ = 1.166 MAX (SITE & DESIGN)
$F_v$ = 2.0
$S_{D1}$ = 1.55 MAX (SITE & DESIGN)
$C_s$ = 0.444 W (DESIGN)

### ☐ WITH SOILS REPORT - SITE CLASS "F"

NOTE: GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED WHERE THE EQUIVALENT LATERAL FORCE PROCEDURE IS USED FOR DESIGN AND THE VALUE OF C 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.

SITE SPECIFIC $S_{DS}$ = ____________

SITE SPECIFIC $S_{D1}$ = ____________

$S_{DS} = S_{D1}$ = 1.55 MAX

$C_s$ = 0.444 W (DESIGN)

*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, $\rho$, 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.

## PV SYSTEM REQUIREMENT TABLE

**REQUIRED PV SYSTEM SIZE (kW)**

| CLIMATE ZONE | BUILDING SIZE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | ☐ 24'x40' | ☒ 36'x40' | ☐ 48'x40' | ☐ 60'x40' | ☐ 72'x40' | ☐ 84'x40' | ☐ 96'x40' | ☐ 108'x40' | ☐ 120'x40' |
| | APPROXIMATE CONDITIONED FLOOR AREA | | | | | | | | |
| | 960 | 1440 | 1920 | 2400 | 2880 | 3360 | 3840 | 4320 | 4800 |
| ☐ 1 & 16 | NONE | NONE | NONE | NONE | NONE | 3.9 | 0.2 | NONE | NONE |
| ☒ 2 - 5 | NONE | NONE | NONE | NONE | NONE | 1.0 | NONE | NONE | NONE |
| ☒ 6 - 13 | NONE | NONE | NONE | NONE | 3.2 | NONE | NONE | NONE | NONE |
| ☒ 14 | NONE | NONE | 1.5 | 3.4 | 3.6 | 2.1 | 3.6 | 1.5 | 4.6 |
| ☐ 15 | NONE | NONE | 2.2 | 5.2 | 5.4 | 3.2 | 5.4 | 2.2 | 7.0 |

NOTE: FOR SITE-SPECIFIC PROJECT, INDICATE BUILDING SIZE AND PV SYSTEM SIZE. IF PV REQUIRED, SEE NOTE #9 UNDER GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(11) 36'X40' BUILDINGS

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: | 11/03/2026 |
| PROJECT NO: | 2003-26 |

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
TS

# American Modular Systems

# STOCKPILE
# (11) 36'x40' BUILDINGS

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| | | ☒ EN.16-EN.17 | ENERGY CALCULATIONS - 36'x40' BUILDING - GROUP D |
| | | ☐ EN.18-EN.19 | ENERGY CALCULATIONS - 48'x40' BUILDING - GROUP A |
| | | ☐ EN.20-EN.21 | ENERGY CALCULATIONS - 48'x40' BUILDING - GROUP B |
| | | ☐ EN.22-EN.23 | ENERGY CALCULATIONS - 48'x40' BUILDING - GROUP C |
| | | ☐ EN.24-EN.25 | ENERGY CALCULATIONS - 48'x40' BUILDING - GROUP D |
| | | ☐ EN.26-EN.27 | ENERGY CALCULATIONS - 60'x40' BUILDING - GROUP A |
| | | ☐ EN.28-EN.29 | ENERGY CALCULATIONS - 60'x40' BUILDING - GROUP B |
| | | ☐ EN.30-EN.31 | ENERGY CALCULATIONS - 60'x40' BUILDING - GROUP C |
| | | ☐ EN.32-EN.33 | ENERGY CALCULATIONS - 60'x40' BUILDING - GROUP D |
| | | ☐ EN.34-EN.35 | ENERGY CALCULATIONS - 72'x40' BUILDING - GROUP A |
| | | ☐ EN.36-EN.37 | ENERGY CALCULATIONS - 72'x40' BUILDING - GROUP B |
| | | ☐ EN.38-EN.39 | ENERGY CALCULATIONS - 72'x40' BUILDING - GROUP C |
| | | ☐ EN.40-EN.41 | ENERGY CALCULATIONS - 72'x40' BUILDING - GROUP D |
| | | ☐ EN.42-EN.43 | ENERGY CALCULATIONS - 84'x40' BUILDING - GROUP A |
| | | ☐ EN.44-EN.45 | ENERGY CALCULATIONS - 84'x40' BUILDING - GROUP B |
| | | ☐ EN.46-EN.47 | ENERGY CALCULATIONS - 84'x40' BUILDING - GROUP C |
| | | ☐ EN.48-EN.49 | ENERGY CALCULATIONS - 84'x40' BUILDING - GROUP D |
| | | ☐ EN.50-EN.51 | ENERGY CALCULATIONS - 96'x40' BUILDING - GROUP A |
| | | ☐ EN.52-EN.53 | ENERGY CALCULATIONS - 96'x40' BUILDING - GROUP B |
| | | ☐ EN.54-EN.55 | ENERGY CALCULATIONS - 96'x40' BUILDING - GROUP C |
| | | ☐ EN.56-EN.57 | ENERGY CALCULATIONS - 96'x40' BUILDING - GROUP D |
| | | ☐ EN.58-EN.59 | ENERGY CALCULATIONS - 108'x40' BUILDING - GROUP A |
| | | ☐ EN.60-EN.61 | ENERGY CALCULATIONS - 108'x40' BUILDING - GROUP B |
| | | ☐ EN.62-EN.63 | ENERGY CALCULATIONS - 108'x40' BUILDING - GROUP C |
| | | ☐ EN.64-EN.65 | ENERGY CALCULATIONS - 108'x40' BUILDING - GROUP D |
| | | ☐ EN.66-EN.67 | ENERGY CALCULATIONS - 120'x40' BUILDING - GROUP A |
| | | ☐ EN.68-EN.69 | ENERGY CALCULATIONS - 120'x40' BUILDING - GROUP B |
| | | ☐ EN.70-EN.71 | ENERGY CALCULATIONS - 120'x40' BUILDING - GROUP C |
| | | ☐ EN.72-EN.73 | ENERGY CALCULATIONS - 120'x40' BUILDING - GROUP D |
| | | ☒ EN.74-EN.76 | ENERGY CALCULATIONS - SUPPLEMENTAL SHEETS |
| FLOOR PLANS | | ☒ A1.0 | FLOOR PLAN |
| | | ☐ A1.1 | TYPICAL FLOOR PLAN w/ SOLATUBE OPTION |
| | | ☒ 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 (WITHOUT PARAPETS) |
| | | ☐ A2.1 | TYPICAL ROOF PLAN - METAL STANDING SEAM (WITH PARAPETS) |
| | | ☒ A2.2 | TYPICAL ROOF DETAILS - METAL STANDING SEAM |
| | SINGLE-PLY OR BUILT-UP | ☐ A2.3 | TYPICAL ROOF PLAN - SINGLE-PLY OR BUILT-UP (WITHOUT PARAPETS) |
| | | ☐ A2.4 | TYPICAL ROOF PLAN - SINGLE-PLY OR BUILT-UP (WITH PARAPETS) |
| | | ☐ A2.5 | TYPICAL ROOF DETAILS - SINGLE-PLY OR BUILT-UP ROOFING |

### ARCHITECTURAL (CONTINUATION)

| OPTIONS | | SHEET NUMBER | SHEET TITLE |
|---|---|---|---|
| INTERIOR ELEVATIONS | | ☒ A4.0 | INTERIOR ELEVATIONS - CLASSROOM |
| | | ☒ A4.1 | INTERIOR ELEVATIONS - RESTROOM OPTIONS |
| | | ☐ A4.2 | INTERIOR ELEVATIONS - RESTROOM OPTIONS - ALT. TOILET TYPES |
| EXTERIOR ELEVATIONS & ARCHITECTURAL DETAILS | STUCCO | ☐ A5.2 | TYPICAL EXTERIOR ELEVATIONS - STUCCO OPTION |
| | | ☐ A5.3 | TYPICAL ARCHITECTURAL DETAILS - STUCCO OPTION |
| | | ☐ A5.3A | DETERIORATION DETAILS GREATER THAN 2160 SQ. FT. - STUCCO OPTION |
| | DURATEMP SIDING | ☒ A5.4 | TYPICAL EXTERIOR ELEVATIONS - DURATEMP 303 SIDING OPTION |
| | | ☒ A5.5 | TYPICAL ARCHITECTURAL DETAILS - DURATEMP 303 SIDING OPTION |
| | | ☐ A5.5A | DETERIORATION DETAILS GREATER THAN 2160 SQ. FT. - DURATEMP SIDING OPTION |
| | SYNTHETIC STUCCO | ☐ A5.6 | TYPICAL EXTERIOR ELEVATIONS - SYNTHETIC STUCCO OPTION |
| | | ☐ A5.7 | TYPICAL ARCHITECTURAL DETAILS - SYNTHETIC STUCCO OPTION |
| | | ☐ A5.7A | DETERIORATION DETAILS GREATER THAN 2160 SQ. FT. - 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 PLAN (50 PSF MAX FLOOR LIVE LOAD) |
| | | ☒ S1.1 | CONCRETE FOUNDATION PLAN (50 PSF LIVE LOAD +15 PSF PARTITION LOAD) |
| | | ☐ S1.2 | CONCRETE FOUNDATION PLAN (100 PSF MAX FLOOR LIVE LOAD) |
| | | ☐ S1.3 | CONCRETE FOUNDATION PLAN (150 PSF MAX FLOOR LIVE LOAD) |
| | | ☒ S1.4 | CONCRETE FOUNDATION DETAILS |
| | | ☒ S1.5 | CONCRETE FOUNDATION DETAILS |
| | | ☒ S1.6A | STANDARD ANCHORAGE FOUNDATION DETAILS |
| | | ☐ S1.6B | UPGRADED ANCHORAGE FOUNDATION DETAILS |
| | | ☒ S1.7 | CONCRETE FOUNDATION OPTIONAL UTILITY OPENINGS IN FOOTINGS |
| 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 (150 PSF MAX FLOOR L.L.) |
| ROOF FRAMING PLANS & 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 |

### MECHANICAL

| OPTIONS | SHEET NUMBER | SHEET TITLE |
|---|---|---|
| FLOOR PLANS | ☒ M1.0 | REFLECTED CEILING PLAN |
| | ☒ M1.1 | MECHANICAL PLAN OPTIONS |
| | ☐ M1.1B | TYPICAL MECHANICAL PLAN OPTIONS |
| | ☐ M1.1C | TYPICAL MECHANICAL PLAN OPTIONS |
| | ☐ M1.3 | RESTROOM REFLECTED CEILING PLANS & OPTIONS |
| 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 PLAN |
| | ☐ E1.1 | RESTROOM OPTIONS ELECTRICAL PLANS |
| | ☒ E1.2 | ELECTRICAL NOTES & DETAILS |

### PLUMBING

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

### FIRE SPRINKLERS

| OPTIONS | SHEET NUMBER | SHEET TITLE |
|---|---|---|
| FLOOR PLAN & DETAILS | ☐ FS-1 | OPTIONAL FIRE SPRINKLER TYP. NOTES & DETAILS |
| | ☐ FS-2 | OPTIONAL FIRE SPRINKLER TYPICAL PLANS |

TOTAL SHEET COUNT
54

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(11) 36'X40' BUILDINGS

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: | 13/03/2026 |
| PROJECT NO: | 2003-26 |

SHEET TITLE:
SHEET INDEX

SHEET NUMBER:
TS-2

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<br>Site: Class 4 for Single Story<br>Site: Class 2 for Two-Story | Class 4 for Single Story<br>Class 2 for Two-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.

NOT USED

## HOLLO-BOLT MANUFACTURER'S INSPECTION PROCEDURES

### PERIODIC SPECIAL INSPECTION REQUIREMENTS

ICC ES
ESR-3330
Seismic Approved

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 MAY BE WAIVED FOR ONE-STORY BUILDINGS IF A CERTIFIED MILL TEST REPORT IS PROVIDED.
4. REQUIRED ONLY WHERE DETAILS SPECIFY THE USE OF THESE ATTACHMENTS.
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 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:<br>04-122050 | School Name:<br>PC | School District:<br>PC |
| DSA File Number: | Increment Number: | Date Created:<br>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<br>Periodic – Indicates that a periodic special inspection is required<br>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.<br>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.<br>PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.<br>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:<br>• Mill certificates indicate material properties that comply with requirements.<br>• 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 |
| ☑ | 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 | Continuous | PI | Verify the torque installation torque |

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

☐ STOCKPILE WOOD FLOOR

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

| | | |
|---|---|---|
| Application Number:<br>04-122050 | School Name:<br>PC | School District:<br>PC |
| DSA File Number: | Increment Number: | Date Created:<br>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<br>Periodic – Indicates that a periodic special inspection is required<br>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.<br>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.<br>PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.<br>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:<br>• Mill certificates indicate material properties that comply with requirements.<br>• 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 |
| ☑ | 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. Shop Welding - Inspect welding of steel floor deck welds Periodic/Special Inspector | Periodic | SI | |
| ☑ | b. Hollow bolts | Continuous | PI | Verify the torque installation torque |

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

☐ STOCKPILE CONCRETE FLOOR

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122050 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 12/11/2023

☐ **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

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|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

FORM
DSA-103

SHEET NUMBER:

D1

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

| | | |
|---|---|---|
| Application Number:<br>04-122050 | School Name:<br>PC | School District:<br>PC |
| DSA File Number: | Increment Number: | Date Created:<br>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<br>Periodic – Indicates that a periodic special inspection is required<br>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.<br>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.<br>PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.<br>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:<br>• Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.<br>• Foundation excavations are extended to proper depth and have reached proper material.<br>• 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:<br>• Mill certificates indicate material properties that comply with requirements.<br>• 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 |
| ☑ | 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 | Continuous | PI | Verify the torque installation torque |

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291
3. 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 - WOOD FLOOR / CONCRETE FOUNDATION

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

| | | |
|---|---|---|
| Application Number:<br>04-122050 | School Name:<br>PC | School District:<br>PC |
| DSA File Number: | Increment Number: | Date Created:<br>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<br>Periodic – Indicates that a periodic special inspection is required<br>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.<br>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.<br>PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.<br>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:<br>• Mill certificates indicate material properties that comply with requirements.<br>• 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 |
| ☑ | 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. Shop Welding - Inspect welding of steel floor deck welds Periodic/Special Inspector | Periodic | SI | |
| ☑ | c. Hollow bolts | Continuous | PI | Verify the torque installation torque |

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291
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☐ CONSTRUCTION OF PERMANENT MODULAR RELOCATABLE BUILDING - CONCRETE FLOOR / CONCRETE FOUNDATION

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

| | | |
|---|---|---|
| Application Number:<br>04-122050 | School Name:<br>PC | School District:<br>PC |
| DSA File Number: | Increment Number: | Date Created:<br>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<br>Periodic – Indicates that a periodic special inspection is required<br>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.<br>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.<br>PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.<br>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

☐ RELOCATION OF CERTIFIED RELOCATABLE BUILDING

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

**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

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME

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~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ **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

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

REVISIONS

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| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

FORM
DSA-103

SHEET NUMBER:

D2

## SECTION 1 GENERAL REQUIREMENTS

1. GENERAL

A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENT APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION.

B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE RDPRC.

C. ALL WORK SHALL COMPLY 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 2 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)

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 ½" WHEN USING A WATER REDUCING ADMIXTURE.

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.

## CONCRETE continued

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 D1.8-2016. 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 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 2-19, 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.
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).

## CARPENTRY continued

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.~~

~~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.

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
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PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ **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

| REVISIONS |
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| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

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<br>1/2<br>3/4<br>1<br>1½ | 6<br>5.5<br>5<br>4.5<br>4.5 |
| ☐ | F2 | CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER | 0.45 | 4500 | 4500 | 3/8<br>1/2<br>3/4<br>1<br>1½ | 7.5<br>7<br>6<br>6<br>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 | $0.10 \leq SO_4^{2-} < 0.20$ | $150 \leq SO_4^{2-} < 1500$ OR SEAWATER | 0.50 | 4000 | 4000 | II |
| ☐ | S2 | $0.20 \leq SO_4^{2-} \leq 2.00$ | $1500 \leq SO_4^{2-} \leq 10{,}000$ | 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 TYPE V CEMENT. ALTERNATIVELY, THE AMOUNT OF THE SPECIFIC SOURCE OF THE POZZOLAN OR SLAG CEMENT TO BE USED SHALL BE AT LEAST THE AMOUNT TESTED IN ACCORDANCE WITH ASTM C1012 AND MEETING THE CRITERIA IN ACI 318-14, SECTION 26.4.2.2(c). SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.

### EXPOSURE 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.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 12/11/2023

☐ 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
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2
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4

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-22

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. UP TO TEN (10) MODULES, APPROXIMATELY 12' x 40', DESIGNED SO THAT TWO (2) OR MORE MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE, 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 & SNOW 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.

## 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.

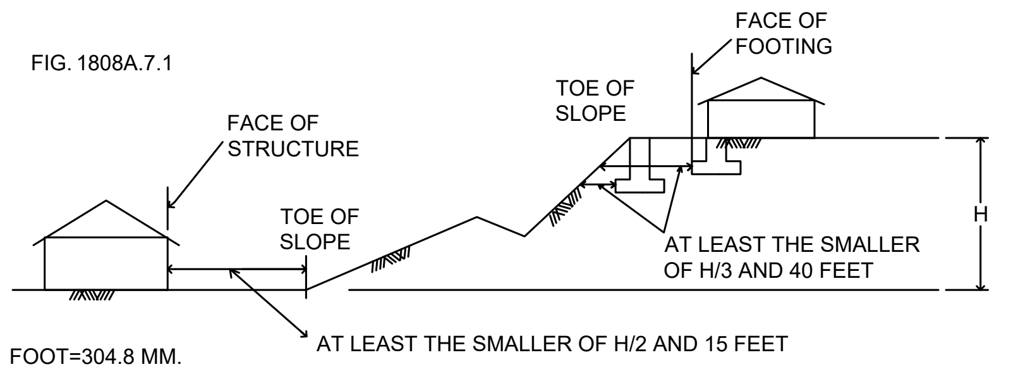
SECTION 11B-606.4 WATER CONTROLS
1. CONTROLS TO OPERATE A WATER FAUCET OR OUTLET SHALL BE A SINGLE-LEVER DESIGN, CAPABLE OF BEING OPERATED WITH A SINGLE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
2. THE FORCE REQUIRED TO OPERATE CONTROLS SHALL NOT EXCEED 5 LBS.

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 |
| ML | MODULE LINE |
| ± | PLUS/MINUS |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

American Modular Systems®
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PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

MANUFACTURER PROFESSIONAL OF RECORD

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

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| DRAWN BY: | WY |
| SCALE: | AS NOTED |
| DATE: | 06/20/2023 |
| PROJECT NO: | 1715-22 |

SHEET TITLE:
GENERAL NOTES
&
SPECIFICATIONS

SHEET NUMBER:
N2.0

| DOOR NO. | DOOR TYPE | DOOR SIZE | QUANTITY | MATERIAL | FINISH | HARDWARE SET NO. | FRAME TYPE | MATERIAL | FINISH | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| DOORS | | | | | | | FRAMES | | | |
| ① | D1 | 3'-0" x 7'-0" | 22 | HM | PT | B | F1 | HM | PT | HARDWARE LOCKABLE FROM THE INSIDE, SEE DOOR NOTE #3 |
| ② | D2 | 3'-0" x 7'-0" | 9 | SC | CLR | D | F1 | T | PT | |
| ③ | D2 | 3'-0" x 7'-0" | 13 | SC | CLR | C | F1 | T | 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
T - TIMELY

### 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 | 22 | FIXED | 8'-0" | 4'-0" | 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

| ROOM NUMBER | ROOM NAME | FLOOR | BASE | WALLS: FRONT | WALLS: REAR | WALLS: RIGHT | WALLS: LEFT | CEILING | CEILING HEIGHT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| FINISHES | | | | | | | | | | |
| 101,201 | CLASSROOM | A | D | F | F | F | F | K | 8'-6" | FLOORING AND BASE PROVIDED/INSTALLED BY OTHERS |
| 202 | STAFF RESTROOM | B | E | J | J | J | J | K | 8'-6" | |
| 102,103 & 203 | SINGLE RESTROOM | 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. TO BE PROVIDED AND INSTALLED BY OTHERS
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" TO BE PROVIDED AND INSTALLED BY OTHERS
E - SELF-COVED 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~~

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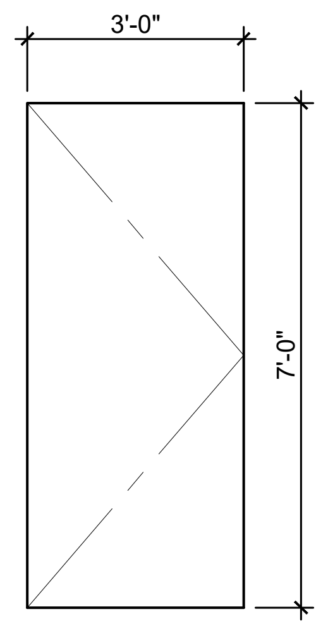
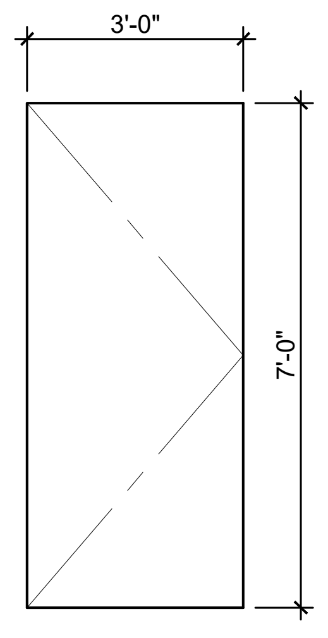
PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(11) 36'X40' BUILDINGS

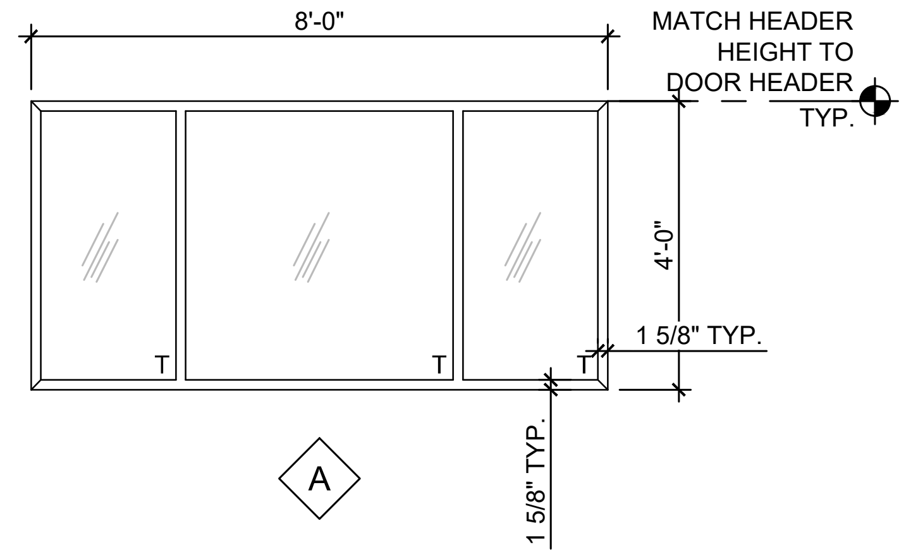


D1



D2
SOLID CORE

## DOOR TYPES

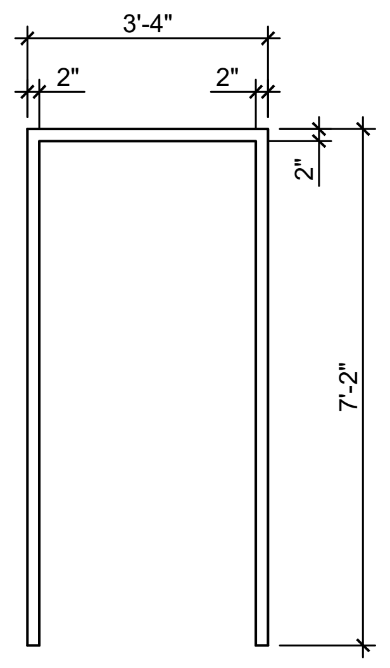


NOTES:
1. WINDOWS ARE INOPERABLE.
2. IDENTIFICATION OF GLASS & SAFETY GLAZING PER CBC CHAPTER 24
3. T=TEMPERED GLASS

## WINDOW TYPES

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

## ROOM FINISHES SCHEDULE



F1

## DOOR FRAME TYPES

| WINDOW GLAZING AREA TABLE | |
|---|---|
| BUILDING SIZE (FT) | MAX ALLOWED WINDOW AREA (SQ FT)* |
| ~~24'x40'~~ | ~~160~~ |
| 36'x40' | 240 |
| ~~48'x40'~~ | ~~320~~ |
| ~~60'x40'~~ | ~~400~~ |
| ~~72'x40'~~ | ~~480~~ |
| ~~84'x40'~~ | ~~560~~ |
| ~~96'x40'~~ | ~~640~~ |
| ~~108'x40'~~ | ~~720~~ |
| ~~120'x40'~~ | ~~800~~ |

* WINDOW PLACEMENT & SIZE MAY VARY AS TITLE 24 MODEL REFLECTS THE LARGEST WINDOW OPTION.
THE TOTAL WINDOW AREA OF ANY BUILDING MAY NOT EXCEED THE MAXIMUM ALLOWED WINDOW AREA (SQ. FT.) LISTED IN THE TABLE ABOVE.
IF A BUILDING EXCEEDS THE MAXIMUM AREA, A PROJECT SPECIFIC TITLE 24 REPORT SHALL BE PROVIDED

| | |
|---|---|
| A | ~~EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND95PD - CLASSROOM LOCK~~ |
| B | EXTERIOR DOOR PANIC BAR w/PULL ON EXTERIOR VON DUPRIN AX22NL-SP28 (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 w/LEVER RHODES SCHLAGE ND70PD - MULTI-ACCOMODATION 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

MANUFACTURER PROFESSIONAL OF RECORD
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-27

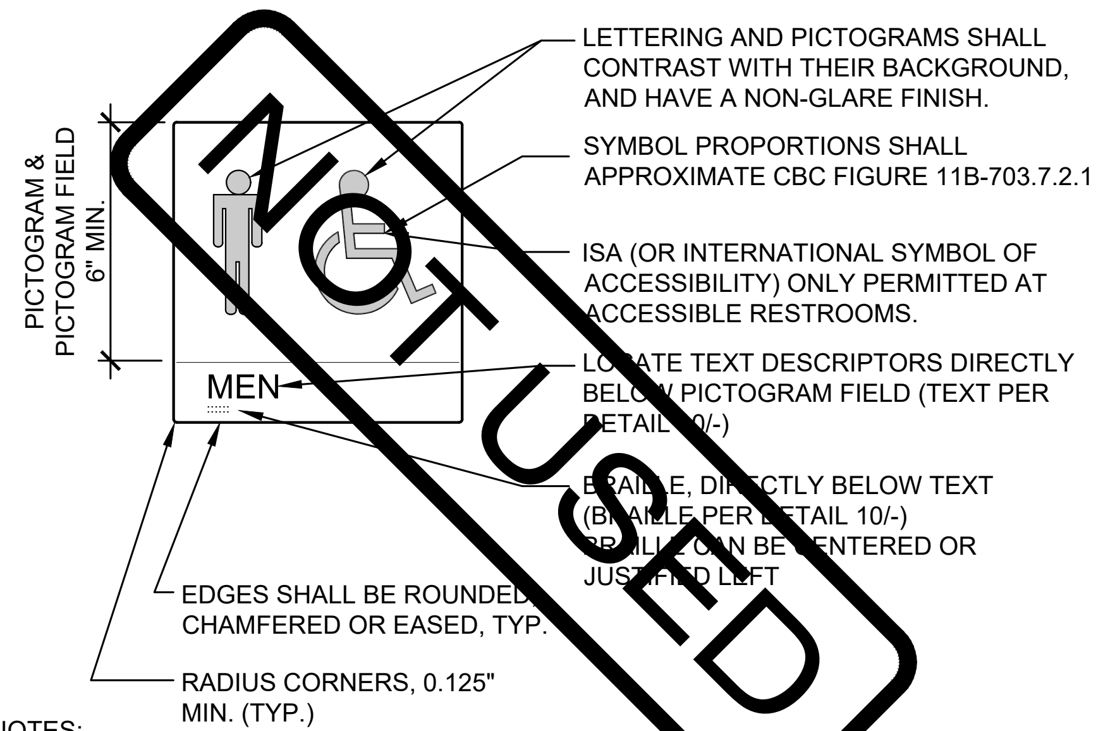
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS
1
2
3
4

| | |
|---|---|
| DRAWN BY: | AV |
| SCALE: | AS NOTED |
| DATE: | 25/03/2026 |
| PROJECT NO: | 2003-26 |

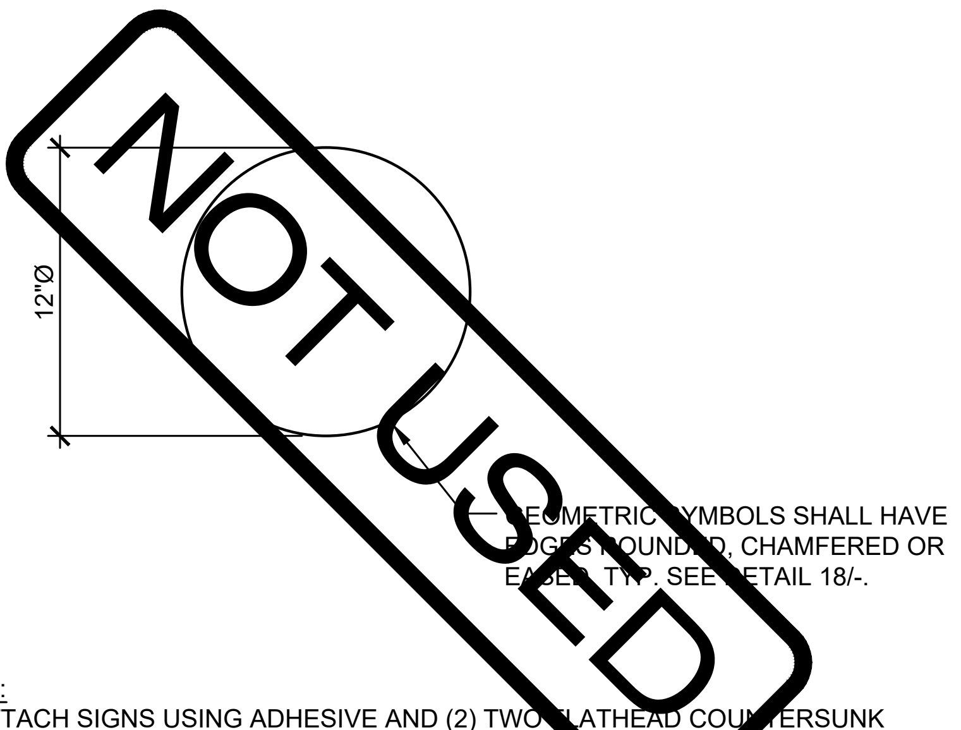
SHEET TITLE:
TYPICAL SCHEDULES:
DOORS, WINDOWS
& FINISHES

SHEET NUMBER:
N3.0


NOT USED
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.)

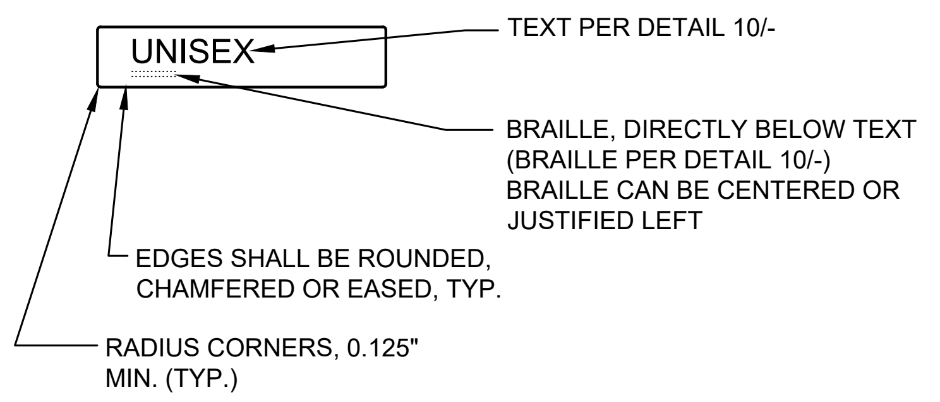
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

**WALL MOUNTED RESTROOM SYMBOLS-MEN** NOT TO SCALE 1


NOT USED
12"Ø
GEOMETRIC SYMBOLS SHALL HAVE EDGES ROUNDED, CHAMFERED OR EASED, TYP. SEE DETAIL 18/-.

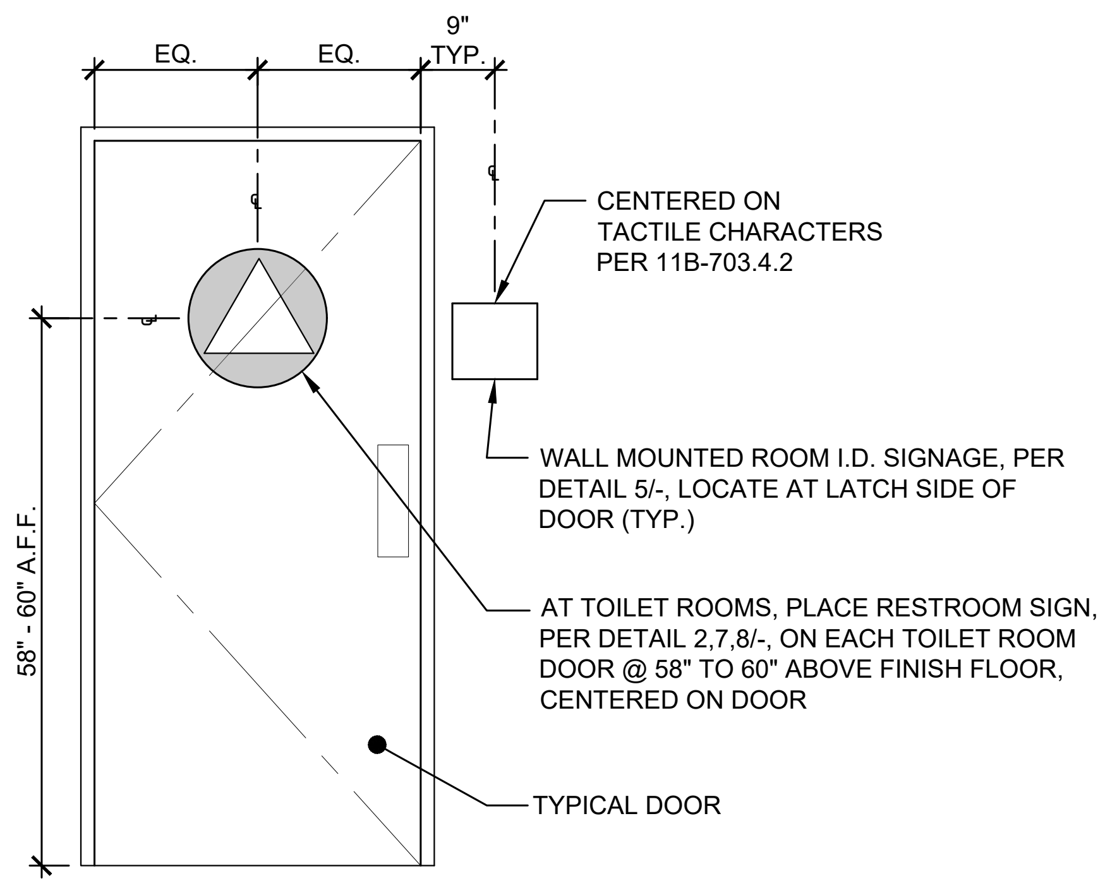
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-.
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6 - SEE DETAIL 18/-
5. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE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

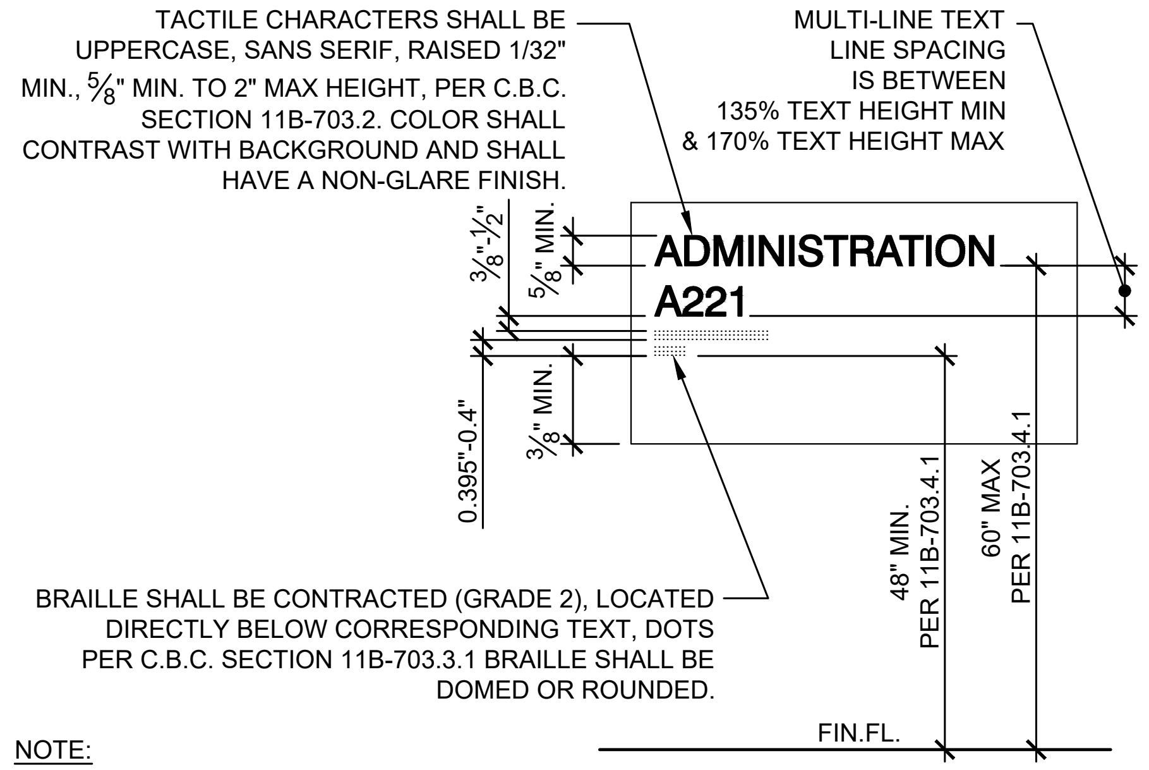
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-.
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. THE UNISEX WALL-MOUNTED SIGN SHALL HAVE RAISED TEXT, CORRESPONDING BRAILLE, AND NO PICTOGRAM (DSA BU 17-01)
5. ISA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

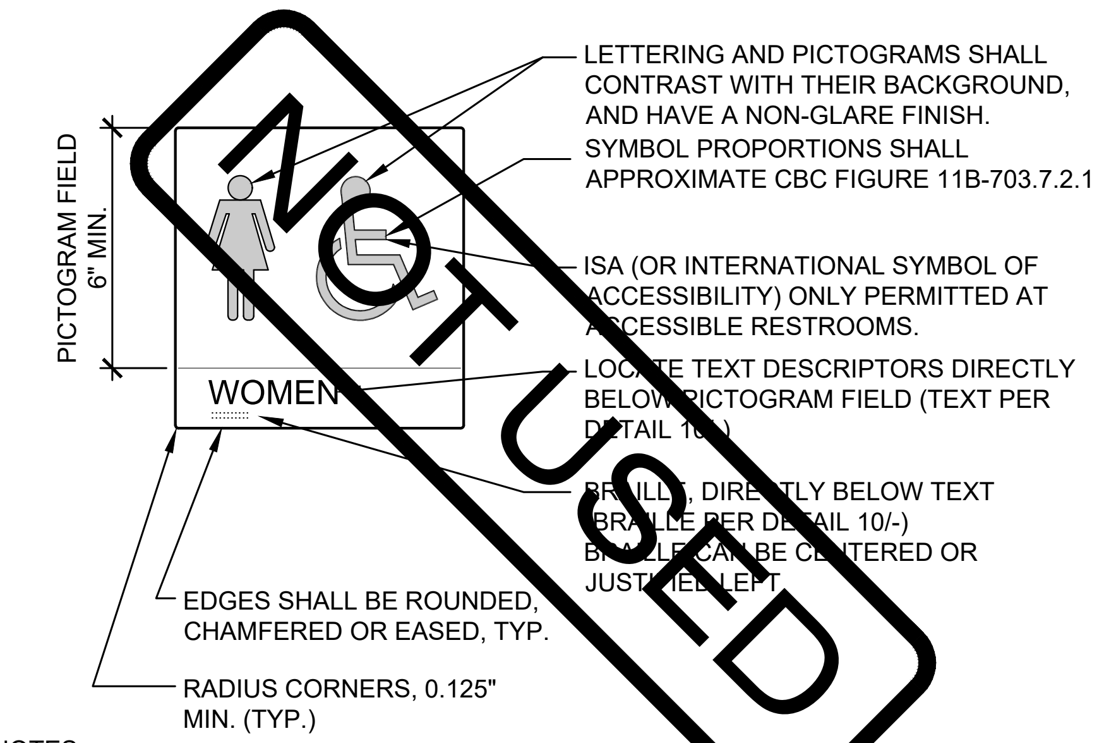
NOTE:
SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

**ROOM IDENTIFICATION SIGNAGE** NOT TO SCALE 4


TACTILE CHARACTERS SHALL BE UPPERCASE, SANS SERIF, RAISED 1/32" MIN., ⅝" 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
⅜"-½"
⅝" MIN.
0.395"-0.4"
⅜" 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.

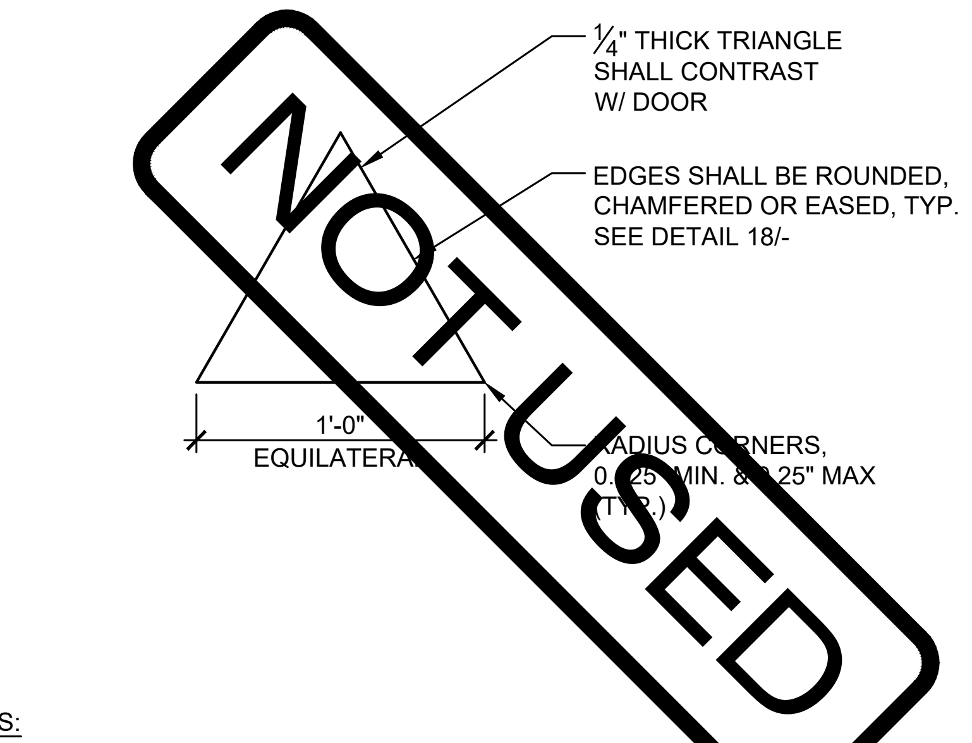
NOTE:
1. PER 11B-216 2022, NEW OR ALTERED SIGNAGE SHALL COMPLY WITH C.B.C. SECTION 11B-703.
2. FOR REQUIRED TACTILE & NON-TACTILE SIGNS LOCATIONS, SEE SHEET N2.0, ACCESSIBILITY STANDARDS, "SECTION 11B-216".
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ATTACH SIGNS USING ADHESIVE OR MIN (2) TWO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

**PERMANENT ROOM I.D. SIGNAGE** NOT TO SCALE 5


NOT USED
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.)

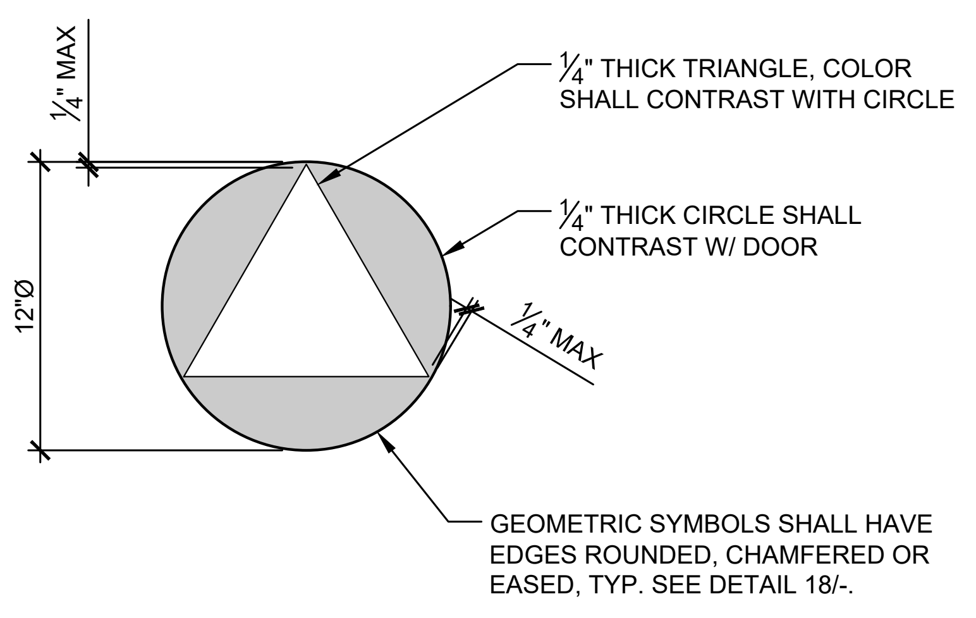
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

**WALL MOUNTED RESTROOM SYMBOLS-WOMEN** NOT TO SCALE 6


NOT USED
¼" 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.)

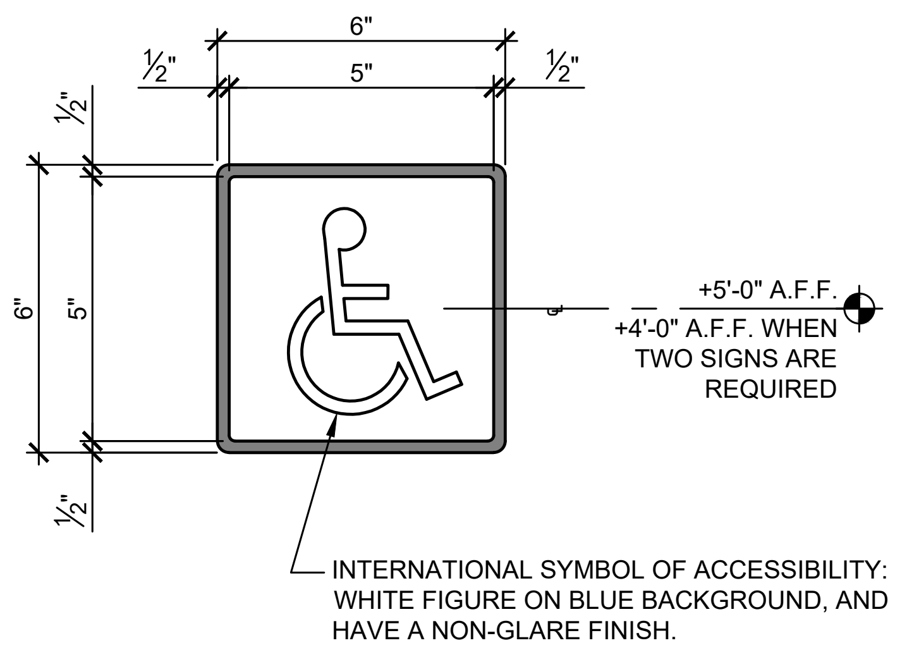
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6 - SEE DETAIL 18/-
5. ISA COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE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

**DOOR MOUNTED RESTROOM SYMBOL-MEN** NOT TO SCALE 7


¼" MAX
12"Ø
¼" THICK TRIANGLE, COLOR SHALL CONTRAST WITH CIRCLE
¼" THICK CIRCLE SHALL CONTRAST W/ DOOR
¼" MAX
GEOMETRIC SYMBOLS SHALL HAVE EDGES ROUNDED, CHAMFERED OR EASED, TYP. SEE DETAIL 18/-.

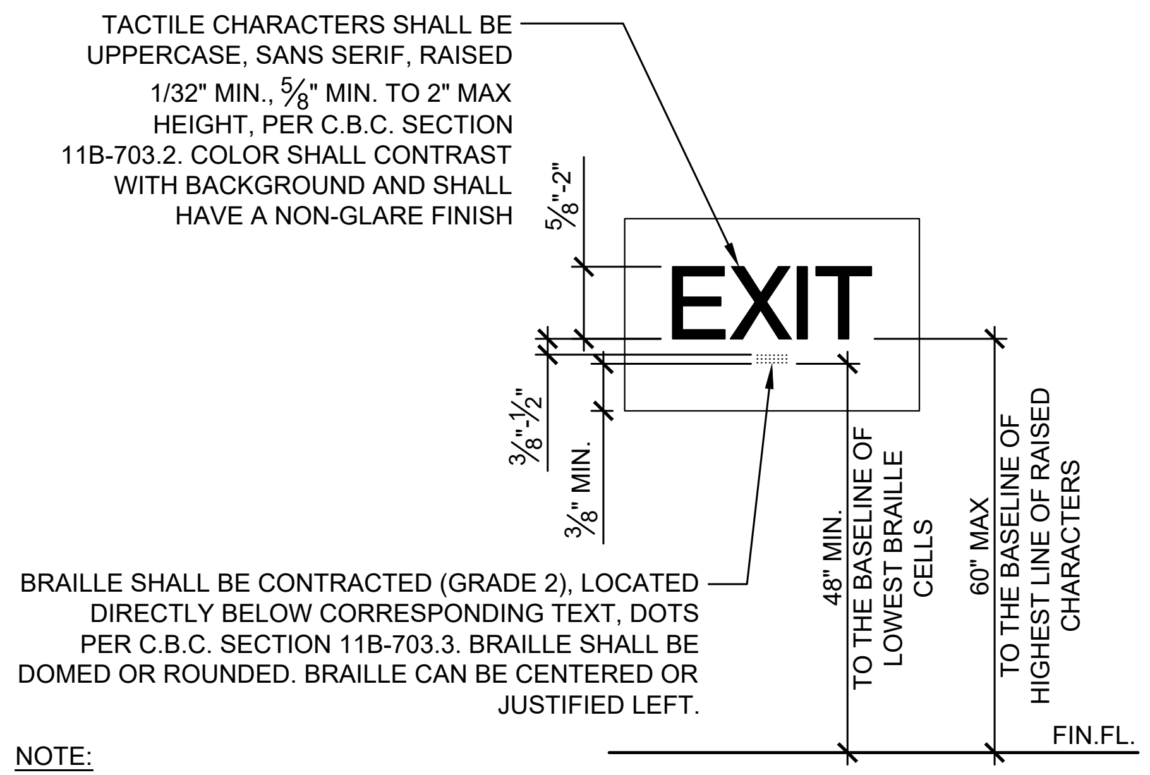
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6 - SEE DETAIL 18/-
5. UNISEX DOOR SYMBOL SHALL BE PROVIDED WITHOUT 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"
½"
5"
½"
½"
6"
5"
½"
+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., ⅝" 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
⅝"-2"
EXIT
⅜"-½"
⅜" MIN.
48" MIN. TO THE BASELINE OF LOWEST BRAILLE CELLS
60" MAX TO THE BASELINE OF HIGHEST LINE OF RAISED CHARACTERS
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/-

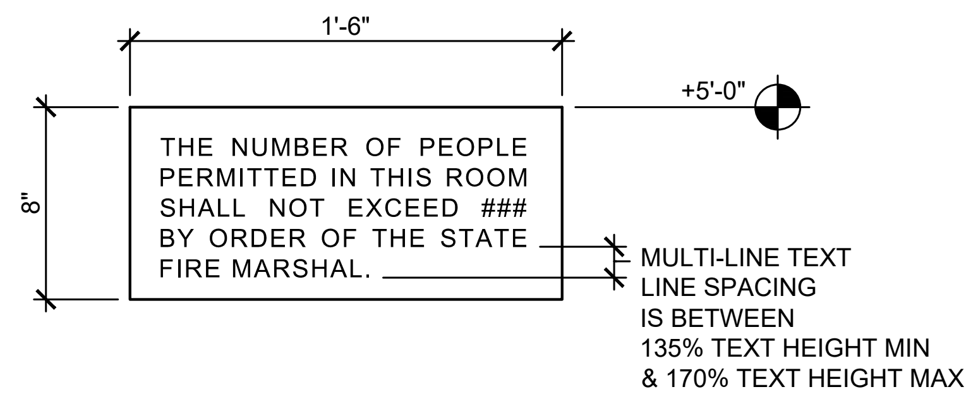
**TACTILE SIGNAGE REQUIREMENTS** NOT TO SCALE 10

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

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

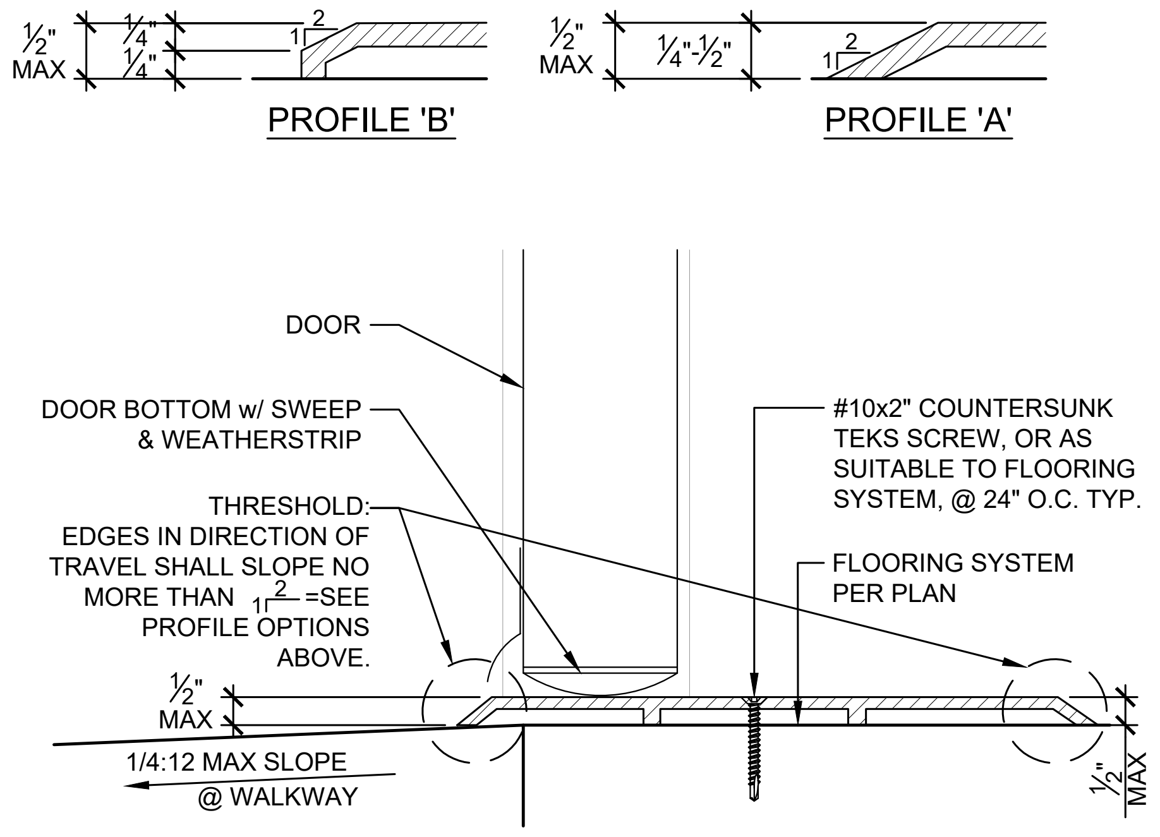
C. CAPACITY POSTING PER C.B.C. SECTION 1004.3 TITLE 19 C.C.R., SECTION 3.30: "THIS ROOM SHALL BE POSTED WITH A DURABLE SIGN NEAR THE MAIN EXIT FROM THE ROOM".

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

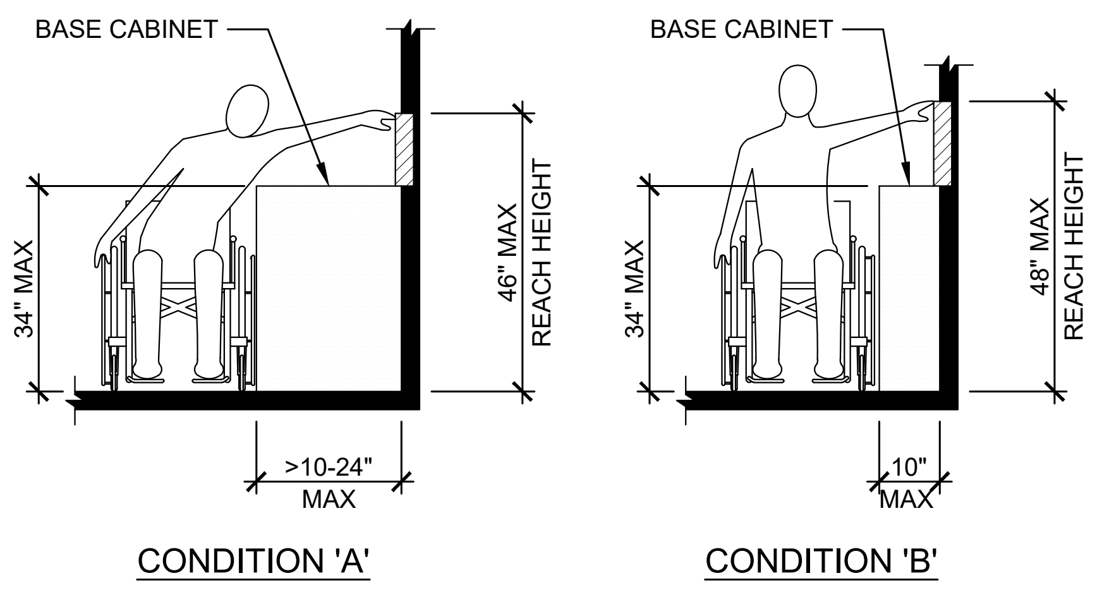

1'-6"
+5'-0"
8"
THE NUMBER OF PEOPLE PERMITTED IN THIS ROOM SHALL NOT EXCEED ### BY ORDER OF THE STATE FIRE MARSHAL.
MULTI-LINE TEXT LINE SPACING IS BETWEEN 135% TEXT HEIGHT MIN & 170% TEXT HEIGHT MAX

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

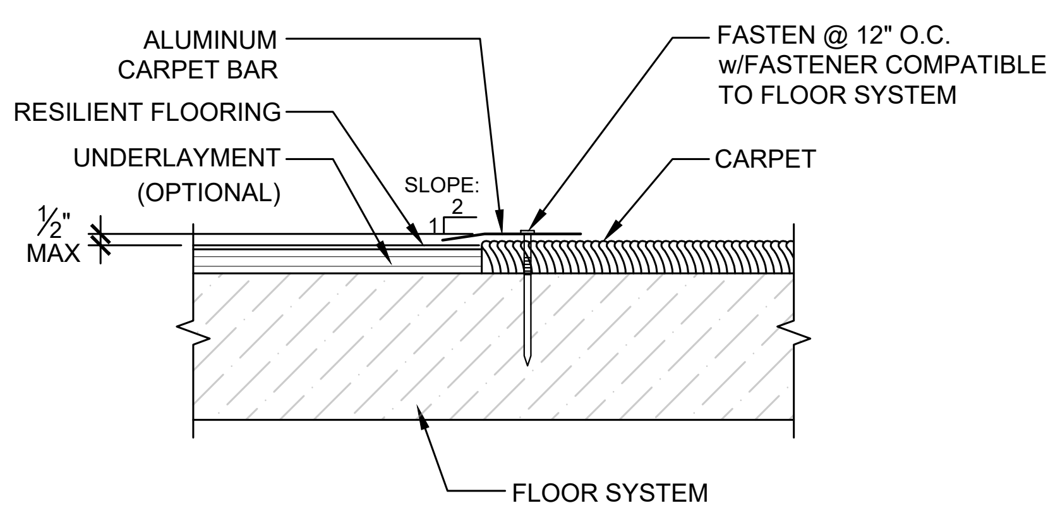
**OCCUPANT LOAD SIGN** NOT TO SCALE 11


½" MAX
¼"
¼"
PROFILE 'B'
½" MAX
¼"-½"
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
½" MAX
1/4:12 MAX SLOPE @ WALKWAY
½" MAX

**THRESHOLD @ EXTERIOR DOOR** NOT TO SCALE 12



**SIDE REACH AT BASE CABINET** NOT TO SCALE 13



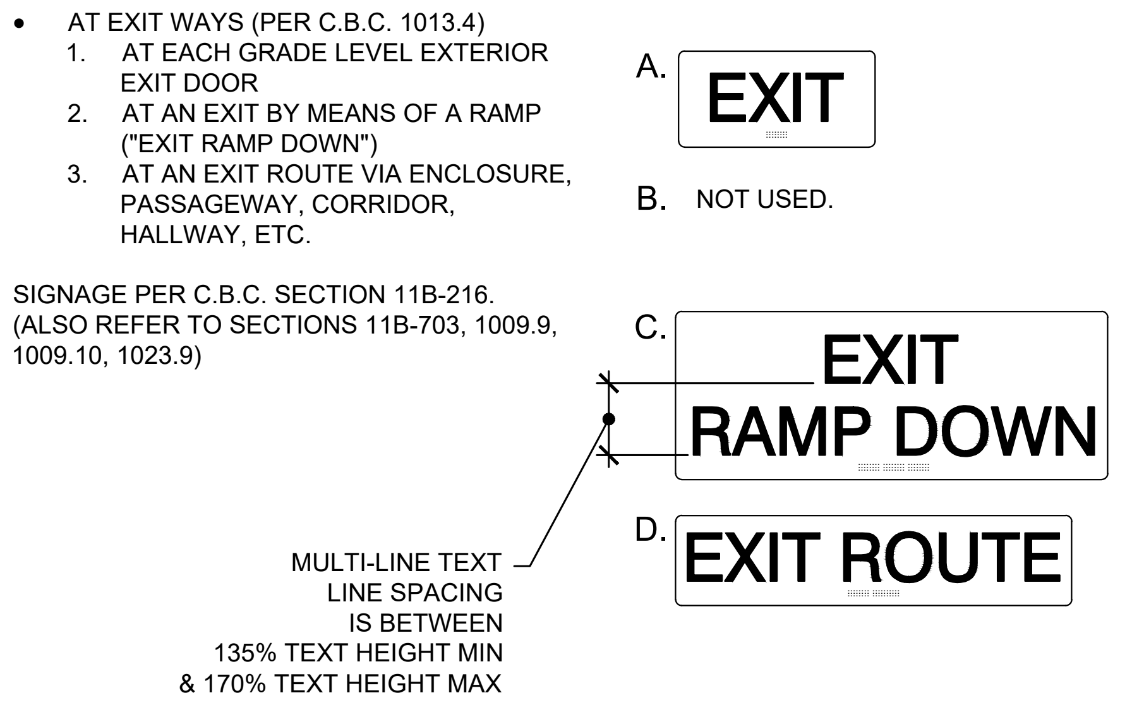
**FLOORING TRANSITION DETAIL** NOT TO SCALE 14

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

- 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.

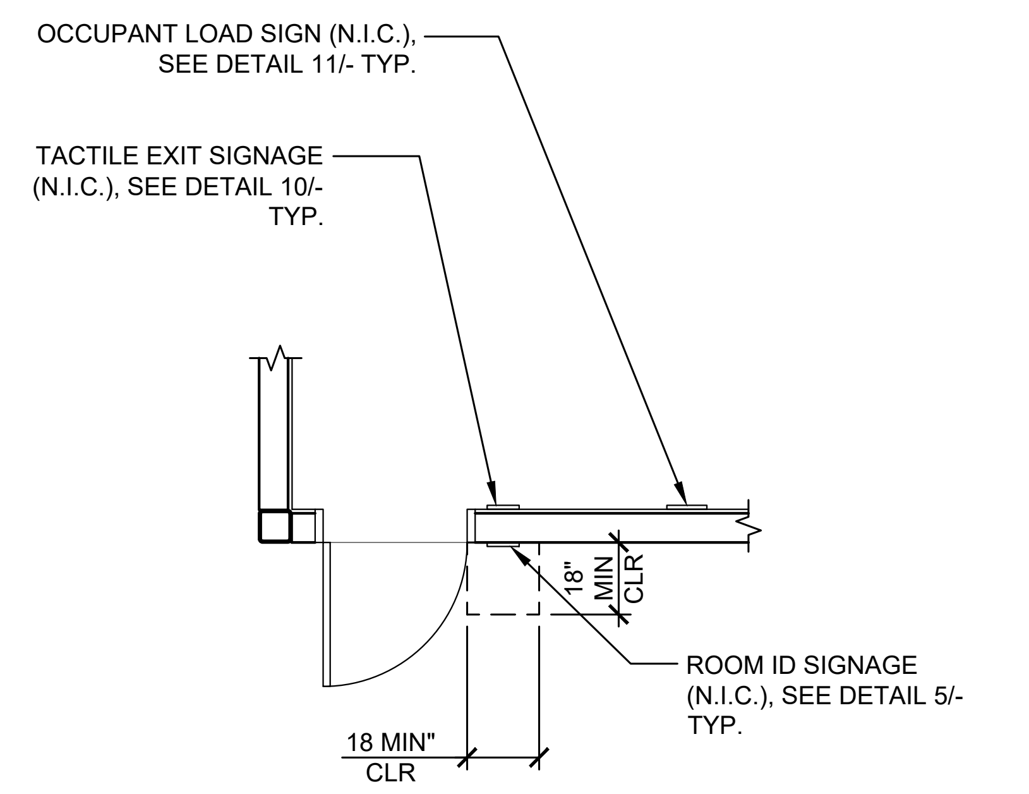
SIGNAGE PER C.B.C. SECTION 11B-216.
(ALSO REFER TO SECTIONS 11B-703, 1009.9, 1009.10, 1023.9)

SIGN REQUIREMENTS PER DETAIL 10/- & 16/-


A.
EXIT
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.

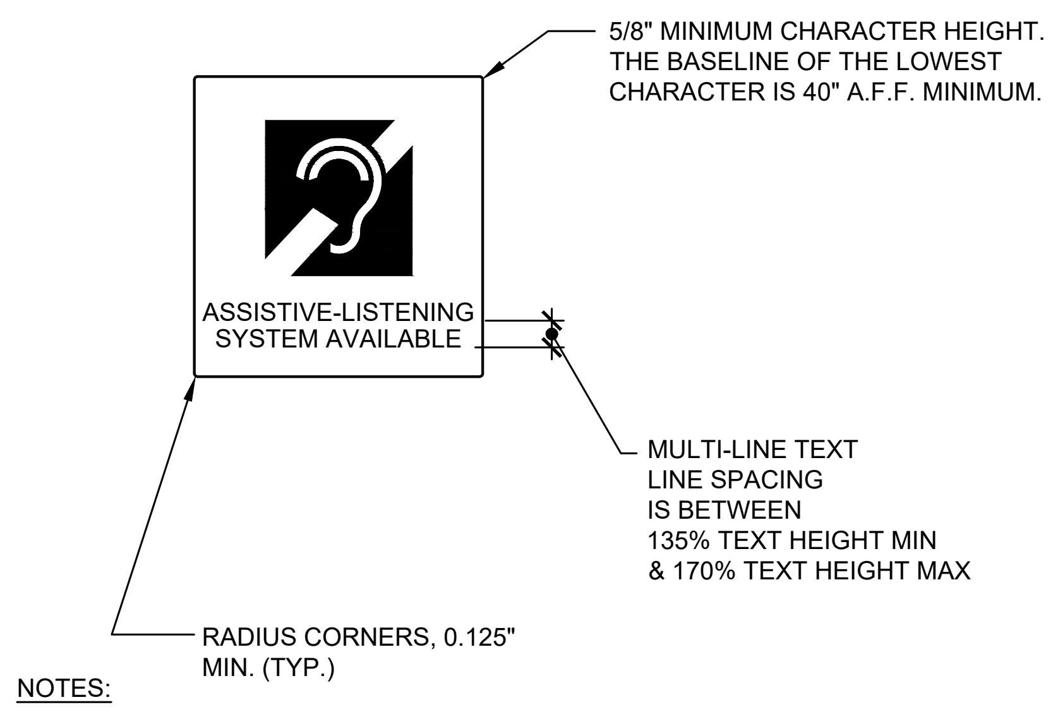
**EGRESS SIGNAGE** NOT TO SCALE 15


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


ASSISTIVE-LISTENING SYSTEM AVAILABLE
5/8" MINIMUM CHARACTER HEIGHT. THE BASELINE OF THE LOWEST CHARACTER IS 40" A.F.F. MINIMUM.
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

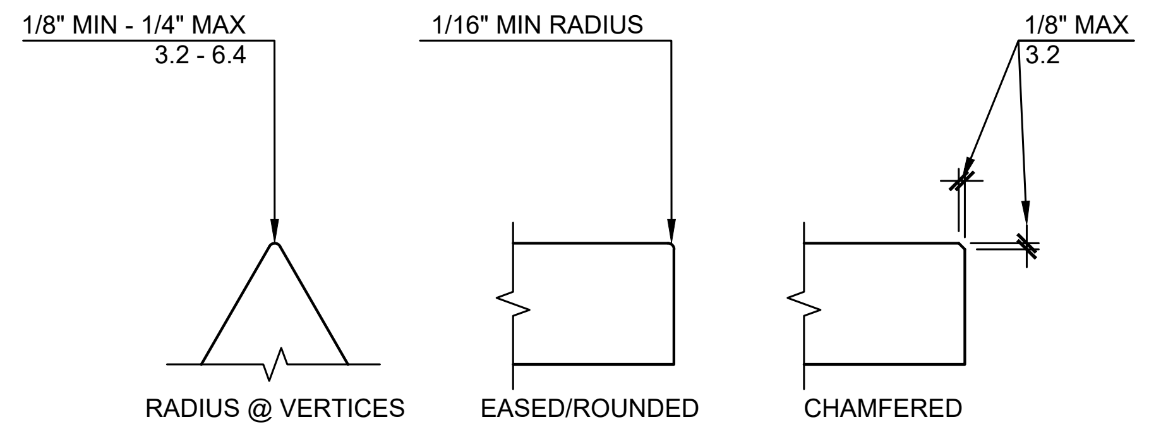
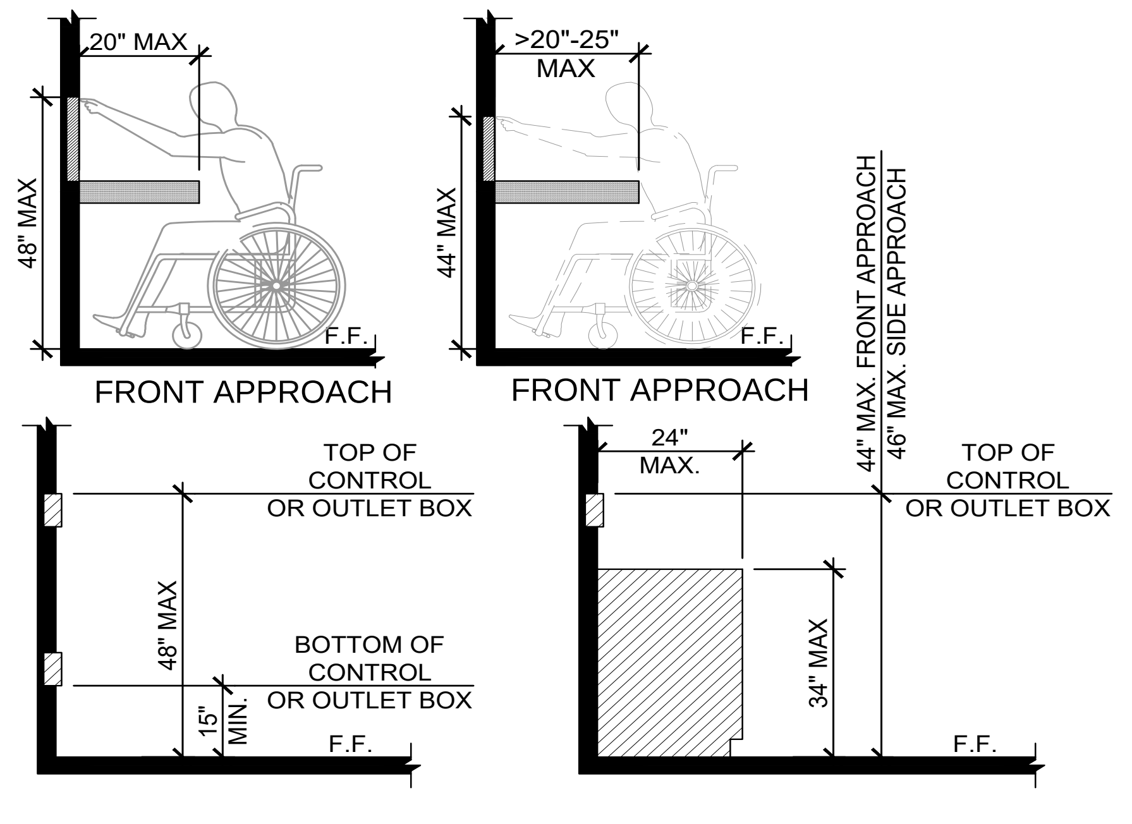


FIGURE 11B-703.7.2.6.4
EDGES AND VERTICES ON GEOMETRIC SYMBOLS

NOTES:
1. FIGURE PER 11B-703.7.2.6.4

**EDGES AND VERTICES ON GEOMETRIC 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

**SHEET NOTES**

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
.
.
.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122050 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 12/11/2023

☐ **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: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-22

SHEET TITLE:
ACCESSIBILITY STANDARDS
AND DETAILS

SHEET NUMBER:
N4.0

### AMS 24x40

| 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<br>**CZ16** | Arcata<br>**Blue Canyon** | R-15 ci | R-5 ci | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 1 | 364.8 | na | 0 | na | 0.0 |
| B | CZ02<br>CZ03<br>CZ04<br>**CZ05** | Santa Rosa<br>Oakland<br>San Jose-Reid<br>**Santa Maria** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 1 | 364.8 | na | 0 | na | 0.0 |
| C | CZ06<br>CZ07<br>CZ08<br>CZ09<br>CZ10<br>CZ11<br>CZ12<br>**CZ13** | Torrance<br>San Diego-Lindbergh<br>Fullerton<br>Burbank-Glendale<br>Riverside<br>Red Bluff<br>Sacramento<br>**Fresno** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 1 | 364.8 | na | 0 | na | 0.0 |
| D | CZ14<br>**CZ15** | Palmdale<br>**Palm Spring-Intl** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 1 | 364.8 | na | 0 | na | 0.0 |

### AMS 36x40

| 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<br>**CZ16** | Arcata<br>**Blue Canyon** | R-15 ci | R-5 ci | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 1 | 547.2 | na | 0 | na | 0.0 |
| B | CZ02<br>CZ03<br>CZ04<br>**CZ05** | Santa Rosa<br>Oakland<br>San Jose-Reid<br>**Santa Maria** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 1 | 547.2 | na | 0 | na | 0.0 |
| C | CZ06<br>CZ07<br>CZ08<br>CZ09<br>CZ10<br>CZ11<br>CZ12<br>**CZ13** | Torrance<br>San Diego-Lindbergh<br>Fullerton<br>Burbank-Glendale<br>Riverside<br>Red Bluff<br>Sacramento<br>**Fresno** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | Y | SysAir 4T | 1 | 547.2 | na | 0 | na | 0.0 |
| D | CZ14<br>**CZ15** | Palmdale<br>**Palm Spring-Intl** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | Y | SysAir 4T | 1 | 547.2 | na | 0 | na | 0.0 |

### AMS 48x40

| 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<br>**CZ16** | Arcata<br>**Blue Canyon** | R-15 ci | R-5 ci | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 2 | 364.8 | na | 0 | na | 0.0 |
| B | CZ02<br>CZ03<br>CZ04<br>**CZ05** | Santa Rosa<br>Oakland<br>San Jose-Reid<br>**Santa Maria** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 2 | 364.8 | na | 0 | na | 0.0 |
| C | CZ06<br>CZ07<br>CZ08<br>CZ09<br>CZ10<br>CZ11<br>CZ12<br>**CZ13** | Torrance<br>San Diego-Lindbergh<br>Fullerton<br>Burbank-Glendale<br>Riverside<br>Red Bluff<br>Sacramento<br>**Fresno** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 2 | 364.8 | na | 0 | na | 0.0 |
| D | CZ14<br>**CZ15** | Palmdale<br>**Palm Spring-Intl** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 2 | 364.8 | na | 0 | na | 1.5<br>2.2 |

### PC 60x40

| 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<br>**CZ16** | Arcata<br>**Blue Canyon** | R-15 ci | R-5 ci | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 2 | 456.0 | na | 0 | na | 0.0 |
| B | CZ02<br>CZ03<br>CZ04<br>**CZ05** | Santa Rosa<br>Oakland<br>San Jose-Reid<br>**Santa Maria** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 2 | 456 | na | 0 | na | 0.0 |
| C | CZ06<br>CZ07<br>CZ08<br>CZ09<br>CZ10<br>CZ11<br>CZ12<br>**CZ13** | Torrance<br>San Diego-Lindbergh<br>Fullerton<br>Burbank-Glendale<br>Riverside<br>Red Bluff<br>Sacramento<br>**Fresno** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 2 | 456 | na | 0 | na | 0.0 |
| D | CZ14<br>**CZ15** | Palmdale<br>**Palm Spring-Intl** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W48HC | 2 | 456 | na | 0 | na | 3.4<br>5.2 |

### PC 72x40

| 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<br>**CZ16** | Arcata<br>**Blue Canyon** | R-15 ci | R-5 ci | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 2 | 547.2 | na | 0 | na | 0.0 |
| B | CZ02<br>CZ03<br>CZ04<br>**CZ05** | Santa Rosa<br>Oakland<br>San Jose-Reid<br>**Santa Maria** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 2 | 547.2 | na | 0 | na | 0.0 |
| C | CZ06<br>CZ07<br>CZ08<br>CZ09<br>CZ10<br>CZ11<br>CZ12<br>**CZ13** | Torrance<br>San Diego-Lindbergh<br>Fullerton<br>Burbank-Glendale<br>Riverside<br>Red Bluff<br>Sacramento<br>**Fresno** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | Y | SysAir 4T | 2 | 547.2 | na | 0 | na | 3.2 |
| D | CZ14<br>**CZ15** | Palmdale<br>**Palm Spring-Intl** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | Y | SysAir 4T | 2 | 547.2 | na | 0 | na | 3.6<br>5.4 |

### AMS 84x40

| 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<br>**CZ16** | Arcata<br>**Blue Canyon** | R-15 ci | R-15 ci | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 2 | 364.8 | W42HC | 1 | 547.2 | 3.9 |
| B | CZ02<br>CZ03<br>CZ04<br>**CZ05** | Santa Rosa<br>Oakland<br>San Jose-Reid<br>**Santa Maria** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 2 | 364.8 | W42HC | 1 | 547.2 | 1.0<br>0.8<br>1.0<br>0.8 |
| C | CZ06<br>CZ07<br>CZ08<br>CZ09<br>CZ10<br>CZ11<br>CZ12<br>**CZ13** | Torrance<br>San Diego-Lindbergh<br>Fullerton<br>Burbank-Glendale<br>Riverside<br>Red Bluff<br>Sacramento<br>**Fresno** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | Y | SysAir 4T | 2 | 364.8 | SysAir 4T | 1 | 547.2 | 0.0 |
| D | CZ14<br>**CZ15** | Palmdale<br>**Palm Spring-Intl** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | Y | SysAir 4T | 2 | 364.8 | SysAir 5T | 1 | 547.2 | 2.1<br>3.2 |

### AMS 96x40

| 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<br>**CZ16** | Arcata<br>**Blue Canyon** | R-15 ci | R-5 ci | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 4 | 364.8 | na | 0 | na | 0.2 |
| B | CZ02<br>CZ03<br>CZ04<br>**CZ05** | Santa Rosa<br>Oakland<br>San Jose-Reid<br>**Santa Maria** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 4 | 364.8 | na | 0 | na | 0.0 |
| C | CZ06<br>CZ07<br>CZ08<br>CZ09<br>CZ10<br>CZ11<br>CZ12<br>**CZ13** | Torrance<br>San Diego-Lindbergh<br>Fullerton<br>Burbank-Glendale<br>Riverside<br>Red Bluff<br>Sacramento<br>**Fresno** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 4 | 364.8 | na | 0 | na | 0.0 |
| D | CZ14<br>**CZ15** | Palmdale<br>**Palm Spring-Intl** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 4 | 364.8 | na | 0 | na | 3.6<br>5.4 |

### AMS 108x40

| 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<br>**CZ16** | Arcata<br>**Blue Canyon** | R-15 ci | R-15 ci | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 3 | 364.8 | W42HC | 1 | 547.2 | 0.0 |
| B | CZ02<br>CZ03<br>CZ04<br>**CZ05** | Santa Rosa<br>Oakland<br>San Jose-Reid<br>**Santa Maria** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 3 | 364.8 | W42HC | 1 | 547.2 | 0.0<br>0.0<br>0.0<br>0.0 |
| C | CZ06<br>CZ07<br>CZ08<br>CZ09<br>CZ10<br>CZ11<br>CZ12<br>**CZ13** | Torrance<br>San Diego-Lindbergh<br>Fullerton<br>Burbank-Glendale<br>Riverside<br>Red Bluff<br>Sacramento<br>**Fresno** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | Y | SysAir 4T | 3 | 364.8 | SysAir 4T | 1 | 547.2 | 0.0 |
| D | CZ14<br>**CZ15** | Palmdale<br>**Palm Spring-Intl** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | Y | SysAir 4T | 3 | 364.8 | SysAir 4T | 1 | 547.2 | 1.5<br>2.2 |

### AMS 120x40

| 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<br>**CZ16** | Arcata<br>**Blue Canyon** | R-15 ci | R-5 ci | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 5 | 364.8 | na | 0 | na | 0.0 |
| B | CZ02<br>CZ03<br>CZ04<br>**CZ05** | Santa Rosa<br>Oakland<br>San Jose-Reid<br>**Santa Maria** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 5 | 364.8 | na | 0 | na | 0.0 |
| C | CZ06<br>CZ07<br>CZ08<br>CZ09<br>CZ10<br>CZ11<br>CZ12<br>**CZ13** | Torrance<br>San Diego-Lindbergh<br>Fullerton<br>Burbank-Glendale<br>Riverside<br>Red Bluff<br>Sacramento<br>**Fresno** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 5 | 364.8 | na | 0 | na | 0.0 |
| D | CZ14<br>**CZ15** | Palmdale<br>**Palm Spring-Intl** | R-5 ci | na | R-5 ci | 0.42 | 0.25 | Y | N | N | W42HC | 5 | 364.8 | na | 0 | na | 4.6<br>7.0 |

## PC DESIGN REVIEW INFORMATION

**Title 24-2022, Part 6, Energy Code**

Model Name and Option: AMS 24x40 — Calculation Date/Time of Energy Report: 9/3/2023
Total Floor Area: 960 — DSA Application:
HVAC System Type: VSHP

| CZ Group | Climate Zone 16 Blue Canyon | Metric | Standard Design | Proposed Design | Margin | Worst Case |
|---|---|---|---|---|---|---|
| A | 30° | TDV-E | 289.3 | 248.3 | 40.9 | |
| | | TDV-T | 289.3 | 248.3 | 40.9 | |
| | | SOURCE | 39.0 | 23.7 | 15.3 | |
| | 75° | TDV-E | 295.8 | 249.3 | 46.6 | |
| | | TDV-T | 295.8 | 249.3 | 46.6 | |
| | | SOURCE | 39.2 | 23.8 | 15.4 | |
| | 120° | TDV-E | 291.8 | 249.2 | 42.6 | |
| | | TDV-T | 291.8 | 249.2 | 42.6 | |
| | | SOURCE | 39.0 | 23.8 | 15.2 | |
| | 165° | TDV-E | 275.6 | 247.9 | 27.7 | Worst Case |
| | | TDV-T | 275.6 | 247.9 | 27.7 | Worst Case |
| | | SOURCE | 38.3 | 23.7 | 14.7 | Worst Case |
| | 210° | TDV-E | 292.8 | 248.9 | 43.9 | |
| | | TDV-T | 292.8 | 248.9 | 43.9 | |
| | | SOURCE | 39.2 | 23.8 | 15.4 | |
| | 255° | TDV-E | 302.1 | 249.0 | 53.0 | |
| | | TDV-T | 302.1 | 249.0 | 53.0 | |
| | | SOURCE | 39.4 | 23.8 | 15.7 | |
| | 300° | TDV-E | 291.2 | 248.3 | 42.9 | |
| | | TDV-T | 291.2 | 248.3 | 42.9 | |
| | | SOURCE | 38.9 | 23.7 | 15.2 | |
| | 345° | TDV-E | 279.9 | 246.9 | 32.9 | |
| | | TDV-T | 279.9 | 246.9 | 32.9 | |
| | | SOURCE | 38.3 | 23.6 | 14.8 | |
| **CZ Group** | **Climate Zone 05 Santa Maria** | **Azimuth (Front Orientation)** | **Standard Design** | **Proposed Design** | **Margin** | **Worst Case** |
| B | 30° | TDV-E | 201.7 | 128.7 | 73.0 | |
| | | TDV-T | 201.7 | 128.7 | 73.0 | |
| | | SOURCE | 19.0 | 13.1 | 5.9 | |
| | 75° | TDV-E | 202.2 | 128.4 | 73.8 | |
| | | TDV-T | 202.2 | 128.4 | 73.8 | |
| | | SOURCE | 19.1 | 13.1 | 5.9 | |
| | 120° | TDV-E | 222.5 | 128.0 | 94.5 | |
| | | TDV-T | 222.5 | 128.0 | 94.5 | |
| | | SOURCE | 20.8 | 13.1 | 7.7 | |
| | 165° | TDV-E | 220.0 | 127.8 | 92.2 | |
| | | TDV-T | 220.0 | 127.8 | 92.2 | |
| | | SOURCE | 20.6 | 13.1 | 7.5 | |
| | 210° | TDV-E | 197.3 | 128.6 | 68.7 | |
| | | TDV-T | 197.3 | 128.6 | 68.7 | |
| | | SOURCE | 18.6 | 13.2 | 5.5 | |
| | 255° | TDV-E | 197.0 | 127.6 | 69.4 | |
| | | TDV-T | 197.0 | 127.6 | 69.4 | |
| | | SOURCE | 18.6 | 13.1 | 5.5 | |
| | 300° | TDV-E | 218.4 | 127.2 | 91.3 | |
| | | TDV-T | 218.4 | 127.2 | 91.3 | |
| | | SOURCE | 20.4 | 13.0 | 7.4 | |
| | 345° | TDV-E | 193.7 | 127.5 | 66.3 | Worst Case |
| | | TDV-T | 193.7 | 127.5 | 66.3 | Worst Case |
| | | SOURCE | 18.3 | 13.1 | 5.3 | Worst Case |
| **CZ Group** | **Climate Zone 13 Fresno** | **Azimuth (Front Orientation)** | **Standard Design** | **Proposed Design** | **Margin** | **Worst Case** |
| C | 30° | TDV-E | 315.5 | 235.7 | 79.8 | |
| | | TDV-T | 315.5 | 235.7 | 79.8 | |
| | | SOURCE | 25.0 | 17.9 | 7.1 | |
| | 75° | TDV-E | 325.9 | 238.3 | 87.6 | |
| | | TDV-T | 325.9 | 238.3 | 87.6 | |
| | | SOURCE | 25.8 | 18.0 | 7.8 | |
| | 120° | TDV-E | 321.2 | 237.8 | 83.5 | |
| | | TDV-T | 321.2 | 237.8 | 83.5 | |
| | | SOURCE | 25.5 | 18.0 | 7.5 | |
| | 165° | TDV-E | 298.7 | 233.8 | 64.9 | Worst Case |
| | | TDV-T | 298.7 | 233.8 | 64.9 | Worst Case |
| | | SOURCE | 23.7 | 17.8 | 5.9 | Worst Case |
| | 210° | TDV-E | 311.0 | 235.6 | 75.5 | |
| | | TDV-T | 311.0 | 235.6 | 75.5 | |
| | | SOURCE | 24.7 | 17.9 | 6.8 | |
| | 255° | TDV-E | 318.8 | 237.5 | 81.3 | |
| | | TDV-T | 318.8 | 237.5 | 81.3 | |
| | | SOURCE | 25.2 | 17.9 | 7.2 | |
| | 300° | TDV-E | 315.2 | 236.6 | 78.6 | |
| | | TDV-T | 315.2 | 236.6 | 78.6 | |
| | | SOURCE | 24.9 | 17.9 | 7.0 | |
| | 345° | TDV-E | 301.0 | 233.4 | 67.5 | |
| | | TDV-T | 301.0 | 233.4 | 67.5 | |
| | | SOURCE | 23.8 | 17.7 | 6.1 | |
| **CZ Group** | **Climate Zone 15 Palm Spring-Intl** | **Azimuth (Front Orientation)** | **Standard Design** | **Proposed Design** | **Margin** | **Worst Case** |
| D | 30° | TDV-E | 345.7 | 270.2 | 75.5 | |
| | | TDV-T | 345.7 | 270.2 | 75.5 | |
| | | SOURCE | 24.8 | 17.0 | 7.8 | |
| | 75° | TDV-E | 359.0 | 271.7 | 87.3 | |
| | | TDV-T | 359.0 | 271.7 | 87.3 | |
| | | SOURCE | 25.8 | 17.1 | 8.7 | |
| | 120° | TDV-E | 356.4 | 270.5 | 85.9 | |
| | | TDV-T | 356.4 | 270.5 | 85.9 | |
| | | SOURCE | 25.6 | 17.1 | 8.6 | |
| | 165° | TDV-E | 331.4 | 267.5 | 63.9 | |
| | | TDV-T | 331.4 | 267.5 | 63.9 | |
| | | SOURCE | 23.6 | 16.8 | 6.8 | |
| | 210° | TDV-E | 342.0 | 269.7 | 72.2 | |
| | | TDV-T | 342.0 | 269.7 | 72.2 | |
| | | SOURCE | 24.7 | 17.0 | 7.7 | |
| | 255° | TDV-E | 352.7 | 271.2 | 81.4 | |
| | | TDV-T | 352.7 | 271.2 | 81.4 | |
| | | SOURCE | 25.4 | 17.1 | 8.4 | |
| | 300° | TDV-E | 345.4 | 270.4 | 75.0 | |
| | | TDV-T | 345.4 | 270.4 | 75.0 | |
| | | SOURCE | 24.8 | 17.0 | 7.8 | |
| | 345° | TDV-E | 329.3 | 268.0 | 61.4 | Worst Case |
| | | TDV-T | 329.3 | 268.0 | 61.4 | Worst Case |
| | | SOURCE | 23.4 | 16.8 | 6.6 | Worst Case |

## PC DESIGN REVIEW INFORMATION

**Title 24-2022, Part 6, Energy Code**

Model Name and Option: AMS 36x40 — Calculation Date/Time of Energy Report: 9/3/2023
Total Floor Area: 1440 — DSA Application:
HVAC System Type: VSHP

| CZ Group | Climate Zone 16 Blue Canyon | Metric | Standard Design | Proposed Design | Margin | Worst Case |
|---|---|---|---|---|---|---|
| A | 30° | TDV-E | 279.4 | 230.9 | 48.5 | |
| | | TDV-T | 279.4 | 230.9 | 48.5 | |
| | | SOURCE | 36.4 | 21.5 | 14.9 | |
| | 75° | TDV-E | 291.1 | 231.3 | 59.9 | |
| | | TDV-T | 291.1 | 231.3 | 59.9 | |
| | | SOURCE | 36.7 | 21.5 | 15.2 | |
| | 120° | TDV-E | 278.0 | 230.1 | 47.8 | |
| | | TDV-T | 278.0 | 230.1 | 47.8 | |
| | | SOURCE | 35.9 | 21.4 | 14.5 | |
| | 165° | TDV-E | 269.3 | 227.8 | 41.4 | |
| | | TDV-T | 269.3 | 227.8 | 41.4 | |
| | | SOURCE | 35.5 | 21.2 | 14.3 | |
| | 210° | TDV-E | 278.3 | 229.1 | 49.2 | |
| | | TDV-T | 278.3 | 229.1 | 49.2 | |
| | | SOURCE | 36.1 | 21.3 | 14.8 | |
| | 255° | TDV-E | 279.5 | 231.0 | 48.5 | |
| | | TDV-T | 279.5 | 231.0 | 48.5 | |
| | | SOURCE | 36.0 | 21.5 | 14.6 | |
| | 300° | TDV-E | 275.1 | 231.6 | 43.5 | |
| | | TDV-T | 275.1 | 231.6 | 43.5 | |
| | | SOURCE | 35.9 | 21.6 | 14.3 | |
| | 345° | TDV-E | 261.8 | 230.0 | 31.7 | Worst Case |
| | | TDV-T | 261.8 | 230.0 | 31.7 | Worst Case |
| | | SOURCE | 35.5 | 21.4 | 14.1 | Worst Case |
| **CZ Group** | **Climate Zone 05 Santa Maria** | **Azimuth (Front Orientation)** | **Standard Design** | **Proposed Design** | **Margin** | **Worst Case** |
| B | 30° | TDV-E | 189.1 | 111.0 | 78.1 | |
| | | TDV-T | 189.1 | 111.0 | 78.1 | |
| | | SOURCE | 17.8 | 11.4 | 6.3 | |
| | 75° | TDV-E | 189.2 | 110.0 | 79.1 | |
| | | TDV-T | 189.2 | 110.0 | 79.1 | |
| | | SOURCE | 17.8 | 11.3 | 6.4 | |
| | 120° | TDV-E | 181.1 | 109.6 | 71.5 | Worst Case |
| | | TDV-T | 181.1 | 109.6 | 71.5 | Worst Case |
| | | SOURCE | 17.0 | 11.3 | 5.8 | Worst Case |
| | 165° | TDV-E | 188.8 | 109.6 | 79.2 | |
| | | TDV-T | 188.8 | 109.6 | 79.2 | |
| | | SOURCE | 17.8 | 11.3 | 6.5 | |
| | 210° | TDV-E | 197.2 | 111.1 | 86.1 | |
| | | TDV-T | 197.2 | 111.1 | 86.1 | |
| | | SOURCE | 18.4 | 11.4 | 7.1 | |
| | 255° | TDV-E | 192.9 | 110.6 | 82.3 | |
| | | TDV-T | 192.9 | 110.6 | 82.3 | |
| | | SOURCE | 18.1 | 11.3 | 6.7 | |
| | 300° | TDV-E | 183.4 | 110.1 | 73.2 | |
| | | TDV-T | 183.4 | 110.1 | 73.2 | |
| | | SOURCE | 17.3 | 11.4 | 5.9 | |
| | 345° | TDV-E | 182.8 | 110.1 | 72.7 | |
| | | TDV-T | 182.8 | 110.1 | 72.7 | |
| | | SOURCE | 17.3 | 11.4 | 5.9 | |
| **CZ Group** | **Climate Zone 13 Fresno** | **Azimuth (Front Orientation)** | **Standard Design** | **Proposed Design** | **Margin** | **Worst Case** |
| C | 30° | TDV-E | 208.0 | 171.9 | 36.0 | |
| | | TDV-T | 208.0 | 171.9 | 36.0 | |
| | | SOURCE | 15.1 | 12.4 | 2.7 | |
| | 75° | TDV-E | 204.9 | 174.9 | 30.0 | Worst Case |
| | | TDV-T | 204.9 | 174.9 | 30.0 | Worst Case |
| | | SOURCE | 15.2 | 12.4 | 2.8 | |
| | 120° | TDV-E | 212.4 | 174.1 | 38.3 | |
| | | TDV-T | 212.4 | 174.1 | 38.3 | |
| | | SOURCE | 15.1 | 12.4 | 2.7 | |
| | 165° | TDV-E | 286.8 | 169.6 | 117.2 | |
| | | TDV-T | 286.8 | 169.6 | 117.2 | |
| | | SOURCE | 22.7 | 12.1 | 10.6 | |
| | 210° | TDV-E | 211.9 | 172.9 | 39.0 | |
| | | TDV-T | 211.9 | 172.9 | 39.0 | |
| | | SOURCE | 15.3 | 12.4 | 2.9 | |
| | 255° | TDV-E | 207.4 | 177.3 | 30.1 | |
| | | TDV-T | 207.4 | 177.3 | 30.1 | |
| | | SOURCE | 15.4 | 12.5 | 2.9 | |
| | 300° | TDV-E | 214.5 | 176.4 | 38.0 | |
| | | TDV-T | 214.5 | 176.4 | 38.0 | |
| | | SOURCE | 15.2 | 12.5 | 2.7 | |
| | 345° | TDV-E | 204.4 | 170.3 | 34.2 | |
| | | TDV-T | 204.4 | 170.3 | 34.2 | |
| | | SOURCE | 14.7 | 12.2 | 2.5 | Worst Case |
| **CZ Group** | **Climate Zone 15 Palm Spring-Intl** | **Azimuth (Front Orientation)** | **Standard Design** | **Proposed Design** | **Margin** | **Worst Case** |
| D | 30° | TDV-E | 326.4 | 203.4 | 123.0 | |
| | | TDV-T | 326.4 | 203.4 | 123.0 | |
| | | SOURCE | 23.4 | 12.2 | 11.2 | |
| | 75° | TDV-E | 339.2 | 205.9 | 133.3 | |
| | | TDV-T | 339.2 | 205.9 | 133.3 | |
| | | SOURCE | 24.4 | 12.3 | 12.1 | |
| | 120° | TDV-E | 330.4 | 205.1 | 125.4 | |
| | | TDV-T | 330.4 | 205.1 | 125.4 | |
| | | SOURCE | 23.6 | 12.2 | 11.4 | |
| | 165° | TDV-E | 237.3 | 202.0 | 35.3 | |
| | | TDV-T | 237.3 | 202.0 | 35.3 | |
| | | SOURCE | 14.5 | 12.0 | 2.5 | |
| | 210° | TDV-E | 252.3 | 204.9 | 47.3 | |
| | | TDV-T | 252.3 | 204.9 | 47.3 | |
| | | SOURCE | 15.7 | 12.3 | 3.4 | |
| | 255° | TDV-E | 264.4 | 207.8 | 56.6 | |
| | | TDV-T | 264.4 | 207.8 | 56.6 | |
| | | SOURCE | 16.4 | 12.4 | 4.0 | |
| | 300° | TDV-E | 254.2 | 205.9 | 48.3 | |
| | | TDV-T | 254.2 | 205.9 | 48.3 | |
| | | SOURCE | 15.8 | 12.3 | 3.5 | |
| | 345° | TDV-E | 235.8 | 201.6 | 34.2 | Worst Case |
| | | TDV-T | 235.8 | 201.6 | 34.2 | Worst Case |
| | | SOURCE | 14.3 | 12.0 | 2.4 | Worst Case |

## PC DESIGN REVIEW INFORMATION

**Title 24-2022, Part 6, Energy Code**

Model Name and Option: AMS 48x40 — Calculation Date/Time of Energy Report: 9/3/2023
Total Floor Area: 1920 — DSA Application:
HVAC System Type: VSHP

| CZ Group | Climate Zone 16 Blue Canyon | Metric | Standard Design | Proposed Design | Margin | Worst Case |
|---|---|---|---|---|---|---|
| A | 30° | TDV-E | 267.2 | 221.6 | 45.6 | |
| | | TDV-T | 267.2 | 221.6 | 45.6 | |
| | | SOURCE | 34.0 | 21.0 | 13.1 | |
| | 75° | TDV-E | 277.2 | 223.4 | 53.8 | |
| | | TDV-T | 277.2 | 223.4 | 53.8 | |
| | | SOURCE | 34.5 | 21.1 | 13.4 | |
| | 120° | TDV-E | 268.7 | 223.4 | 45.3 | |
| | | TDV-T | 268.7 | 223.4 | 45.3 | |
| | | SOURCE | 34.1 | 21.2 | 13.0 | |
| | 165° | TDV-E | 254.1 | 221.1 | 33.0 | Worst Case |
| | | TDV-T | 254.1 | 221.1 | 33.0 | Worst Case |
| | | SOURCE | 33.5 | 21.0 | 12.5 | Worst Case |
| | 210° | TDV-E | 271.8 | 222.1 | 49.6 | |
| | | TDV-T | 271.8 | 222.1 | 49.6 | |
| | | SOURCE | 34.3 | 21.0 | 13.3 | |
| | 255° | TDV-E | 283.5 | 223.4 | 60.1 | |
| | | TDV-T | 283.5 | 223.4 | 60.1 | |
| | | SOURCE | 34.7 | 21.1 | 13.6 | |
| | 300° | TDV-E | 271.8 | 222.8 | 49.0 | |
| | | TDV-T | 271.8 | 222.8 | 49.0 | |
| | | SOURCE | 34.1 | 21.1 | 13.0 | |
| | 345° | TDV-E | 258.1 | 220.2 | 37.9 | |
| | | TDV-T | 258.1 | 220.2 | 37.9 | |
| | | SOURCE | 33.4 | 20.9 | 12.6 | |
| **CZ Group** | **Climate Zone 05 Santa Maria** | **Azimuth (Front Orientation)** | **Standard Design** | **Proposed Design** | **Margin** | **Worst Case** |
| B | 30° | TDV-E | 190.3 | 120.3 | 70.0 | |
| | | TDV-T | 190.3 | 120.3 | 70.0 | |
| | | SOURCE | 17.6 | 12.1 | 5.5 | |
| | 75° | TDV-E | 190.3 | 120.2 | 70.2 | |
| | | TDV-T | 190.3 | 120.2 | 70.2 | |
| | | SOURCE | 17.6 | 12.1 | 5.5 | |
| | 120° | TDV-E | 211.2 | 119.4 | 91.7 | |
| | | TDV-T | 211.2 | 119.4 | 91.7 | |
| | | SOURCE | 19.4 | 12.1 | 7.3 | |
| | 165° | TDV-E | 208.0 | 118.9 | 89.1 | |
| | | TDV-T | 208.0 | 118.9 | 89.1 | |
| | | SOURCE | 19.2 | 12.0 | 7.1 | |
| | 210° | TDV-E | 185.6 | 120.0 | 65.6 | Worst Case |
| | | TDV-T | 185.6 | 120.0 | 65.6 | Worst Case |
| | | SOURCE | 17.2 | 12.1 | 5.1 | Worst Case |
| | 255° | TDV-E | 215.6 | 119.4 | 96.2 | |
| | | TDV-T | 215.6 | 119.4 | 96.2 | |
| | | SOURCE | 19.7 | 12.0 | 7.7 | |
| | 300° | TDV-E | 206.5 | 119.0 | 87.5 | |
| | | TDV-T | 206.5 | 119.0 | 87.5 | |
| | | SOURCE | 19.0 | 12.0 | 7.0 | |
| | 345° | TDV-E | 211.8 | 118.8 | 93.0 | |
| | | TDV-T | 211.8 | 118.8 | 93.0 | |
| | | SOURCE | 19.4 | 12.0 | 7.4 | |
| **CZ Group** | **Climate Zone 13 Fresno** | **Azimuth (Front Orientation)** | **Standard Design** | **Proposed Design** | **Margin** | **Worst Case** |
| C | 30° | TDV-E | 296.6 | 221.7 | 74.9 | |
| | | TDV-T | 296.6 | 221.7 | 74.9 | |
| | | SOURCE | 23.2 | 16.7 | 6.5 | |
| | 75° | TDV-E | 307.3 | 225.9 | 81.4 | |
| | | TDV-T | 307.3 | 225.9 | 81.4 | |
| | | SOURCE | 24.0 | 16.9 | 7.1 | |
| | 120° | TDV-E | 301.6 | 224.8 | 76.8 | |
| | | TDV-T | 301.6 | 224.8 | 76.8 | |
| | | SOURCE | 23.6 | 16.9 | 6.7 | |
| | 165° | TDV-E | 280.3 | 219.2 | 61.2 | |
| | | TDV-T | 280.3 | 219.2 | 61.2 | |
| | | SOURCE | 21.9 | 16.6 | 5.4 | Worst Case |
| | 210° | TDV-E | 291.7 | 221.2 | 70.5 | |
| | | TDV-T | 291.7 | 221.2 | 70.5 | |
| | | SOURCE | 22.9 | 16.8 | 6.2 | |
| | 255° | TDV-E | 300.3 | 224.7 | 75.6 | |
| | | TDV-T | 300.3 | 224.7 | 75.6 | |
| | | SOURCE | 23.4 | 16.9 | 6.6 | |
| | 300° | TDV-E | 296.3 | 224.1 | 72.2 | |
| | | TDV-T | 296.3 | 224.1 | 72.2 | |
| | | SOURCE | 23.1 | 16.8 | 6.3 | |
| | 345° | TDV-E | 280.0 | 219.0 | 61.0 | Worst Case |
| | | TDV-T | 280.0 | 219.0 | 61.0 | Worst Case |
| | | SOURCE | 22.0 | 16.5 | 5.4 | |
| **CZ Group** | **Climate Zone 15 Palm Spring-Intl** | **Azimuth (Front Orientation)** | **Standard Design** | **Proposed Design** | **Margin** | **Worst Case** |
| D | 30° | TDV-E | 319.2 | 257.1 | 62.2 | |
| | | TDV-T | 231.5 | 218.6 | 12.9 | |
| | | SOURCE | 19.2 | 14.7 | 4.5 | |
| | 75° | TDV-E | 337.7 | 260.0 | 77.6 | |
| | | TDV-T | 249.9 | 222.3 | 27.6 | |
| | | SOURCE | 20.5 | 14.9 | 5.6 | |
| | 120° | TDV-E | 332.9 | 258.4 | 74.5 | |
| | | TDV-T | 245.2 | 221.8 | 23.4 | |
| | | SOURCE | 20.1 | 14.9 | 5.3 | |
| | 165° | TDV-E | 305.9 | 253.6 | 52.3 | Worst Case |
| | | TDV-T | 218.1 | 215.0 | 3.1 | Worst Case |
| | | SOURCE | 18.0 | 14.4 | 3.6 | Worst Case |
| | 210° | TDV-E | 321.9 | 256.3 | 65.6 | |
| | | TDV-T | 234.1 | 217.8 | 16.4 | |
| | | SOURCE | 19.5 | 14.7 | 4.8 | |
| | 255° | TDV-E | 335.5 | 259.4 | 76.2 | |
| | | TDV-T | 247.8 | 221.6 | 26.1 | |
| | | SOURCE | 20.5 | 14.9 | 5.6 | |
| | 300° | TDV-E | 327.1 | 258.7 | 68.4 | |
| | | TDV-T | 239.3 | 220.8 | 18.6 | |
| | | SOURCE | 19.7 | 14.7 | 5.0 | |
| | 345° | TDV-E | 309.0 | 254.6 | 54.5 | |
| | | TDV-T | 221.3 | 216.0 | 5.3 | |
| | | SOURCE | 18.2 | 14.4 | 3.8 | |

## PC DESIGN REVIEW INFORMATION

**Title 24-2022, Part 6, Energy Code**

Model Name and Option: PC 60x40 — Calculation Date/Time of Energy Report: 9/3/2023
Total Floor Area: 2400 — DSA Application:
HVAC System Type: VSHP

| CZ Group | Climate Zone 16 Blue Canyon | Metric | Standard Design | Proposed Design | Margin | Worst Case |
|---|---|---|---|---|---|---|
| A | 30° | TDV-E | 263.0 | 221.7 | 41.3 | |
| | | TDV-T | 263.0 | 221.7 | 41.3 | |
| | | SOURCE | 33.4 | 20.5 | 12.9 | |
| | 75° | TDV-E | 275.0 | 224.0 | 51.0 | |
| | | TDV-T | 275.0 | 224.0 | 51.0 | |
| | | SOURCE | 33.8 | 20.7 | 13.1 | |
| | 120° | TDV-E | 262.7 | 223.3 | 39.4 | |
| | | TDV-T | 262.7 | 223.3 | 39.4 | |
| | | SOURCE | 33.2 | 20.6 | 12.5 | |
| | 165° | TDV-E | 254.0 | 219.8 | 34.1 | |
| | | TDV-T | 254.0 | 219.8 | 34.1 | |
| | | SOURCE | 32.7 | 20.3 | 12.4 | |
| | 210° | TDV-E | 262.1 | 221.0 | 41.2 | |
| | | TDV-T | 262.1 | 221.0 | 41.2 | |
| | | SOURCE | 33.2 | 20.4 | 12.9 | |
| | 255° | TDV-E | 270.8 | 223.8 | 47.0 | |
| | | TDV-T | 270.8 | 223.8 | 47.0 | |
| | | SOURCE | 33.6 | 20.6 | 13.0 | |
| | 300° | TDV-E | 263.9 | 223.8 | 40.1 | |
| | | TDV-T | 263.9 | 223.8 | 40.1 | |
| | | SOURCE | 33.3 | 20.7 | 12.6 | |
| | 345° | TDV-E | 251.6 | 220.7 | 30.9 | Worst Case |
| | | TDV-T | 251.6 | 220.7 | 30.9 | Worst Case |
| | | SOURCE | 32.7 | 20.4 | 12.3 | Worst Case |
| **CZ Group** | **Climate Zone 05 Santa Maria** | **Azimuth (Front Orientation)** | **Standard Design** | **Proposed Design** | **Margin** | **Worst Case** |
| B | 30° | TDV-E | 185.2 | 120.4 | 64.8 | |
| | | TDV-T | 185.2 | 120.4 | 64.8 | |
| | | SOURCE | 17.2 | 11.7 | 5.5 | |
| | 75° | TDV-E | 185.3 | 120.6 | 64.7 | |
| | | TDV-T | 185.3 | 120.6 | 64.7 | |
| | | SOURCE | 17.2 | 11.8 | 5.5 | |
| | 120° | TDV-E | 177.1 | 120.0 | 57.2 | Worst Case |
| | | TDV-T | 177.1 | 120.0 | 57.2 | Worst Case |
| | | SOURCE | 16.5 | 11.7 | 4.8 | Worst Case |
| | 165° | TDV-E | 180.8 | 119.1 | 61.7 | |
| | | TDV-T | 180.8 | 119.1 | 61.7 | |
| | | SOURCE | 16.9 | 11.6 | 5.2 | |
| | 210° | TDV-E | 188.2 | 120.4 | 67.8 | |
| | | TDV-T | 188.2 | 120.4 | 67.8 | |
| | | SOURCE | 17.4 | 11.7 | 5.7 | |
| | 255° | TDV-E | 187.9 | 120.8 | 67.1 | |
| | | TDV-T | 187.9 | 120.8 | 67.1 | |
| | | SOURCE | 17.4 | 11.7 | 5.7 | |
| | 300° | TDV-E | 178.7 | 120.1 | 58.6 | |
| | | TDV-T | 178.7 | 120.1 | 58.6 | |
| | | SOURCE | 16.7 | 11.7 | 4.9 | |
| | 345° | TDV-E | 178.4 | 119.1 | 59.2 | |
| | | TDV-T | 178.4 | 119.1 | 59.2 | |
| | | SOURCE | 16.7 | 11.7 | 5.0 | |
| **CZ Group** | **Climate Zone 13 Fresno** | **Azimuth (Front Orientation)** | **Standard Design** | **Proposed Design** | **Margin** | **Worst Case** |
| C | 30° | TDV-E | 289.6 | 216.0 | 73.6 | |
| | | TDV-T | 289.6 | 216.0 | 73.6 | |
| | | SOURCE | 22.8 | 16.0 | 6.8 | |
| | 75° | TDV-E | 299.1 | 221.0 | 78.1 | |
| | | TDV-T | 299.1 | 221.0 | 78.1 | |
| | | SOURCE | 23.4 | 16.2 | 7.2 | |
| | 120° | TDV-E | 294.2 | 220.1 | 74.1 | |
| | | TDV-T | 294.2 | 220.1 | 74.1 | |
| | | SOURCE | 23.1 | 16.2 | 6.9 | |
| | 165° | TDV-E | 274.9 | 213.8 | 61.1 | Worst Case |
| | | TDV-T | 274.9 | 213.8 | 61.1 | Worst Case |
| | | SOURCE | 21.7 | 15.8 | 5.9 | Worst Case |
| | 210° | TDV-E | 290.9 | 216.2 | 74.6 | |
| | | TDV-T | 290.9 | 216.2 | 74.6 | |
| | | SOURCE | 22.9 | 16.0 | 6.9 | |
| | 255° | TDV-E | 301.8 | 221.7 | 80.1 | |
| | | TDV-T | 301.8 | 221.7 | 80.1 | |
| | | SOURCE | 23.6 | 16.2 | 7.4 | |
| | 300° | TDV-E | 296.0 | 220.7 | 75.3 | |
| | | TDV-T | 296.0 | 220.7 | 75.3 | |
| | | SOURCE | 23.2 | 16.2 | 7.0 | |
| | 345° | TDV-E | 277.3 | 213.9 | 63.4 | |
| | | TDV-T | 277.3 | 213.9 | 63.4 | |
| | | SOURCE | 21.8 | 15.8 | 6.0 | |
| **CZ Group** | **Climate Zone 15 Palm Spring-Intl** | **Azimuth (Front Orientation)** | **Standard Design** | **Proposed Design** | **Margin** | **Worst Case** |
| D | 30° | TDV-E | 311.4 | 284.4 | 27.1 | |
| | | TDV-T | 223.7 | 211.6 | 12.1 | |
| | | SOURCE | 18.7 | 15.8 | 2.9 | |
| | 75° | TDV-E | 324.6 | 288.3 | 36.3 | |
| | | TDV-T | 236.9 | 217.0 | 19.8 | |
| | | SOURCE | 19.7 | 16.2 | 3.5 | |
| | 120° | TDV-E | 324.3 | 287.2 | 37.2 | |
| | | TDV-T | 236.6 | 217.9 | 18.7 | |
| | | SOURCE | 19.5 | 16.2 | 3.3 | |
| | 165° | TDV-E | 303.0 | 282.1 | 21.0 | |
| | | TDV-T | 215.3 | 209.1 | 6.2 | |
| | | SOURCE | 17.9 | 15.5 | 2.4 | |
| | 210° | TDV-E | 316.2 | 285.0 | 31.2 | |
| | | TDV-T | 228.4 | 212.1 | 16.3 | |
| | | SOURCE | 19.0 | 15.9 | 3.1 | |
| | 255° | TDV-E | 331.7 | 289.0 | 42.7 | |
| | | TDV-T | 244.0 | 217.7 | 26.3 | |
| | | SOURCE | 20.1 | 16.2 | 3.9 | |
| | 300° | TDV-E | 326.6 | 287.2 | 39.4 | |
| | | TDV-T | 238.8 | 215.5 | 23.3 | |
| | | SOURCE | 19.7 | 16.0 | 3.7 | |
| | 345° | TDV-E | 302.0 | 281.8 | 20.1 | Worst Case |
| | | TDV-T | 214.2 | 208.8 | 5.4 | Worst Case |
| | | SOURCE | 17.8 | 15.5 | 2.3 | Worst Case |

### HVAC Specification Table

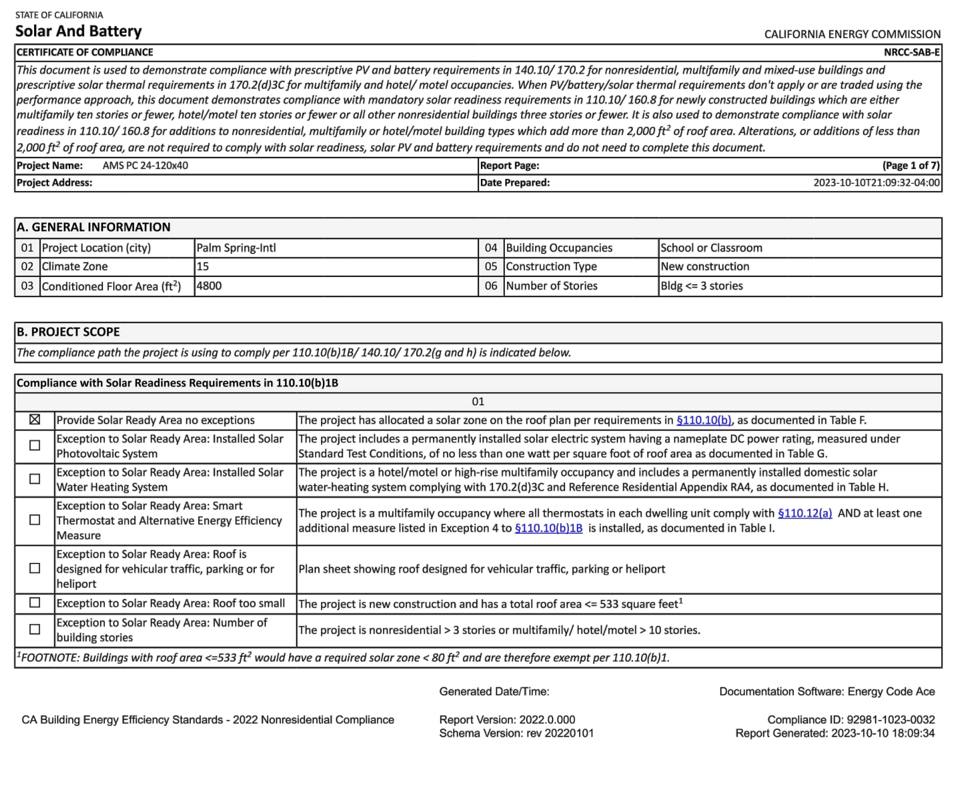
| Bard W18H-W60H Series Wall-Mount | Capacity (Ton) | Cooling (Btu/h) | Heating (Btu/h) | Supply Fan CV/VFD | Supply Fan (CFM) | Supply Fan (HP) | Cooling Efficiency (EER) | Heating Efficiency (COP) |
|---|---|---|---|---|---|---|---|---|
| W42HC | 3.5 | 42,000 | 39,000 | CV | 1,350 | 0.50 | 11.0 | 3.3 |
| 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 |

### Notes

| | |
|---|---|
| 🟩 | Indicates deviation from predominant design |
| 🟦 | Indicates Systemair Sophomore HVAC unit |
| 1 | Rigid insulation R-value added above the R-19 Roof Structure per detail |
| 2 | Rigid insulation R-value added to the exterior R-13 Metal Stud walls, per detail |
| 3 | Rigid insulation R-value below the ground floor slab |
| 4 | NFRC Tested Window U-factor and SHGC |
| 5 | HVAC Unit Specification |
| 6 | Total number of specified HVAC units in PC |
| 7 | Design Ouside Air (OSA / cfm) per HVAC unit per Section H3. or the Title 24 reports |

**PV System**[8]

- The kW DC OPV required for compliance is indicated in this table.
- PV panel Azimuth is based on the PC orientation, see Section F1 on pg. 9 of the Title 24 report for details
- PV panel = 5 degree per Section F1 of the Title 24 report for details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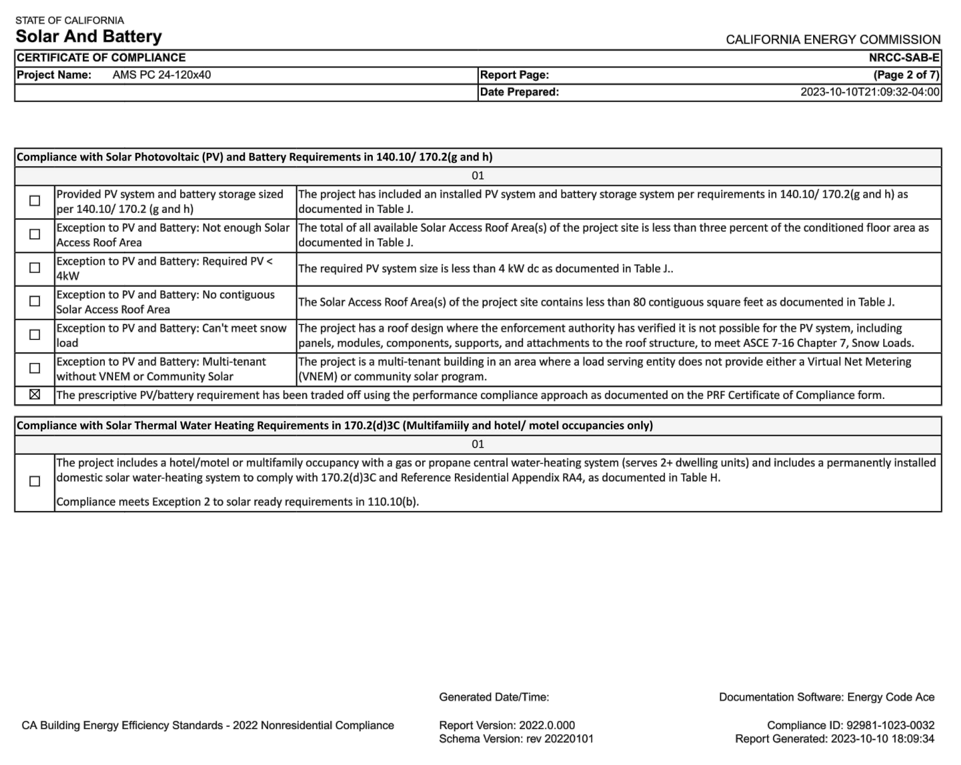
CERTIFICATE OF COMPLIANCE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CERTIFICATE OF COMPLIANCE

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PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)

FORM®

SITE SPECIFIC PROJECT NAME

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122050 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 12/11/2023

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

MANUFACTURER PROFESSIONAL OF RECORD ON PC

No. C12631
Ren. 3-31-25

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

REVISIONS

| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

ENERGY CALCULATIONS
SUMMATION SHEET

SHEET NUMBER:

EN.1A

## PC DESIGN REVIEW INFORMATION

### Title 24-2022, Part 6, Energy Code

Model Name and Option: PC 72x40
Calculation Date/Time of Energy Report: 9/3/2023
Total Floor Area: 2880
DSA Application:
HVAC System Type: VSHP

| CZ Group | Climate Zone 16 Blue Canyon | Metric | Standard Design | Proposed Design | Margin | Worst Case |
|---|---|---|---|---|---|---|
| A | 30° | TDV-E | 258.8 | 217.8 | 41.0 | |
| | | TDV-T | 258.8 | 217.8 | 41.0 | |
| | | SOURCE | 32.4 | 19.8 | 12.6 | |
| | 75° | TDV-E | 265.8 | 220.8 | 45.1 | |
| | | TDV-T | 265.8 | 220.8 | 45.1 | |
| | | SOURCE | 32.7 | 20.0 | 12.7 | |
| | 120° | TDV-E | 260.7 | 220.7 | 40.0 | |
| | | TDV-T | 260.7 | 220.7 | 40.0 | |
| | | SOURCE | 32.5 | 20.1 | 12.4 | |
| | 165° | TDV-E | 246.6 | 217.4 | 29.1 | Worst Case |
| | | TDV-T | 246.6 | 217.4 | 29.1 | Worst Case |
| | | SOURCE | 31.8 | 19.8 | 12.0 | Worst Case |
| | 210° | TDV-E | 259.6 | 218.3 | 41.3 | |
| | | TDV-T | 259.6 | 218.3 | 41.3 | |
| | | SOURCE | 32.5 | 19.8 | 12.7 | |
| | 255° | TDV-E | 272.1 | 220.6 | 51.4 | |
| | | TDV-T | 272.1 | 220.6 | 51.4 | |
| | | SOURCE | 33.0 | 20.0 | 12.9 | |
| | 300° | TDV-E | 259.5 | 220.1 | 39.4 | |
| | | TDV-T | 259.5 | 220.1 | 39.4 | |
| | | SOURCE | 32.3 | 20.0 | 12.3 | |
| | 345° | TDV-E | 250.1 | 216.7 | 33.4 | |
| | | TDV-T | 250.1 | 216.7 | 33.4 | |
| | | SOURCE | 31.8 | 19.7 | 12.1 | |
| CZ Group | Climate Zone 05 Santa Maria | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| B | 30° | TDV-E | 186.7 | 114.9 | 71.8 | |
| | | TDV-T | 186.7 | 114.9 | 71.8 | |
| | | SOURCE | 17.2 | 11.2 | 6.1 | |
| | 75° | TDV-E | 186.7 | 115.3 | 71.4 | |
| | | TDV-T | 186.7 | 115.3 | 71.4 | |
| | | SOURCE | 17.3 | 11.2 | 6.0 | |
| | 120° | TDV-E | 177.8 | 114.3 | 63.5 | |
| | | TDV-T | 177.8 | 114.3 | 63.5 | |
| | | SOURCE | 16.5 | 11.2 | 5.3 | |
| | 165° | TDV-E | 175.6 | 113.3 | 62.3 | |
| | | TDV-T | 175.6 | 113.3 | 62.3 | |
| | | SOURCE | 16.3 | 11.1 | 5.2 | |
| | 210° | TDV-E | 182.1 | 114.3 | 67.8 | |
| | | TDV-T | 182.1 | 114.3 | 67.8 | |
| | | SOURCE | 16.9 | 11.2 | 5.7 | |
| | 255° | TDV-E | 182.1 | 114.6 | 67.5 | |
| | | TDV-T | 182.1 | 114.6 | 67.5 | |
| | | SOURCE | 16.8 | 11.2 | 5.7 | |
| | 300° | TDV-E | 173.6 | 113.9 | 59.6 | Worst Case |
| | | TDV-T | 173.6 | 113.9 | 59.6 | Worst Case |
| | | SOURCE | 16.1 | 11.1 | 5.0 | Worst Case |
| | 345° | TDV-E | 178.8 | 113.3 | 65.6 | |
| | | TDV-T | 178.8 | 113.3 | 65.6 | |
| | | SOURCE | 16.6 | 11.1 | 5.5 | |
| CZ Group | Climate Zone 13 Fresno | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| C | 30° | TDV-E | 201.4 | 172.2 | 29.2 | |
| | | TDV-T | 150.2 | 138.1 | 12.0 | |
| | | SOURCE | 12.6 | 10.8 | 1.8 | |
| | 75° | TDV-E | 207.8 | 178.9 | 29.0 | |
| | | TDV-T | 156.6 | 145.1 | 11.5 | |
| | | SOURCE | 12.9 | 11.1 | 1.8 | |
| | 120° | TDV-E | 207.4 | 177.4 | 30.0 | |
| | | TDV-T | 156.1 | 144.5 | 11.7 | |
| | | SOURCE | 12.7 | 11.1 | 1.7 | |
| | 165° | TDV-E | 272.2 | 169.3 | 102.9 | |
| | | TDV-T | 220.9 | 135.5 | 85.4 | |
| | | SOURCE | 19.5 | 10.6 | 9.0 | |
| | 210° | TDV-E | 198.9 | 171.4 | 27.5 | |
| | | TDV-T | 147.7 | 137.3 | 10.4 | |
| | | SOURCE | 12.5 | 10.8 | 1.7 | |
| | 255° | TDV-E | 203.5 | 177.5 | 26.0 | |
| | | TDV-T | 152.3 | 143.7 | 8.6 | |
| | | SOURCE | 12.6 | 11.1 | 1.5 | |
| | 300° | TDV-E | 198.7 | 176.3 | 22.4 | Worst Case |
| | | TDV-T | 147.4 | 143.4 | 4.0 | Worst Case |
| | | SOURCE | 12.2 | 11.0 | 1.3 | Worst Case |
| | 345° | TDV-E | 272.2 | 169.2 | 103.0 | |
| | | TDV-T | 220.9 | 135.5 | 85.4 | |
| | | SOURCE | 19.6 | 10.5 | 9.0 | |
| CZ Group | Climate Zone 15 Palm Spring-Intl | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| D | 30° | TDV-E | 234.7 | 206.1 | 28.6 | Worst Case |
| | | TDV-T | 146.9 | 143.0 | 3.9 | |
| | | SOURCE | 10.9 | 9.9 | 1.0 | |
| | 75° | TDV-E | 248.2 | 211.0 | 37.1 | |
| | | TDV-T | 160.4 | 149.3 | 11.1 | |
| | | SOURCE | 11.6 | 10.2 | 1.4 | |
| | 120° | TDV-E | 239.8 | 209.0 | 30.8 | |
| | | TDV-T | 152.0 | 149.1 | 2.9 | Worst Case |
| | | SOURCE | 11.0 | 10.1 | 0.8 | Worst Case |
| | 165° | TDV-E | 296.1 | 202.4 | 93.6 | |
| | | TDV-T | 208.3 | 139.2 | 69.1 | |
| | | SOURCE | 17.3 | 9.5 | 7.9 | |
| | 210° | TDV-E | 308.7 | 204.7 | 103.9 | |
| | | TDV-T | 220.9 | 141.7 | 79.2 | |
| | | SOURCE | 18.5 | 9.8 | 8.7 | |
| | 255° | TDV-E | 323.3 | 210.0 | 113.3 | |
| | | TDV-T | 235.5 | 148.3 | 87.2 | |
| | | SOURCE | 19.6 | 10.2 | 9.4 | |
| | 300° | TDV-E | 313.5 | 208.9 | 104.6 | |
| | | TDV-T | 225.7 | 146.8 | 78.9 | |
| | | SOURCE | 18.7 | 9.9 | 8.8 | |
| | 345° | TDV-E | 300.6 | 203.2 | 97.4 | |
| | | TDV-T | 212.9 | 140.0 | 72.8 | |
| | | SOURCE | 17.6 | 9.5 | 8.1 | |

## PC DESIGN REVIEW INFORMATION

### Title 24-2022, Part 6, Energy Code

Model Name and Option: AMS 84x40
Calculation Date/Time of Energy Report: 9/3/2023
Total Floor Area: 3360
DSA Application:
HVAC System Type: VSHP

| CZ Group | Climate Zone 16 Blue Canyon | Metric | Standard Design | Proposed Design | Margin | Worst Case |
|---|---|---|---|---|---|---|
| A | 30° | TDV-E | 222.2 | 201.8 | 20.4 | |
| | | TDV-T | 182.6 | 168.7 | 13.9 | |
| | | SOURCE | 33.8 | 17.4 | 16.4 | |
| | 75° | TDV-E | 231.4 | 204.0 | 27.4 | |
| | | TDV-T | 191.8 | 171.7 | 20.1 | |
| | | SOURCE | 34.2 | 17.6 | 16.6 | |
| | 120° | TDV-E | 223.9 | 203.5 | 20.4 | |
| | | TDV-T | 184.3 | 172.4 | 11.9 | |
| | | SOURCE | 33.8 | 17.7 | 16.1 | |
| | 165° | TDV-E | 212.5 | 200.3 | 12.2 | |
| | | TDV-T | 172.9 | 167.0 | 5.8 | |
| | | SOURCE | 33.1 | 17.3 | 15.8 | |
| | 210° | TDV-E | 221.6 | 201.4 | 20.2 | |
| | | TDV-T | 182.0 | 168.3 | 13.7 | |
| | | SOURCE | 33.8 | 17.4 | 16.4 | |
| | 255° | TDV-E | 229.2 | 203.7 | 25.6 | |
| | | TDV-T | 189.6 | 171.4 | 18.3 | |
| | | SOURCE | 34.2 | 17.6 | 16.6 | |
| | 300° | TDV-E | 223.4 | 203.6 | 19.9 | |
| | | TDV-T | 183.8 | 171.0 | 12.9 | |
| | | SOURCE | 33.9 | 17.6 | 16.2 | |
| | 345° | TDV-E | 209.3 | 200.7 | 8.6 | Worst Case |
| | | TDV-T | 169.7 | 167.4 | 2.3 | Worst Case |
| | | SOURCE | 33.1 | 17.4 | 15.7 | Worst Case |
| CZ Group | Climate Zone 05 Santa Maria | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| B | 30° | TDV-E | 146.3 | 112.2 | 34.1 | Worst Case |
| | | TDV-T | 106.5 | 105.2 | 1.3 | Worst Case |
| | | SOURCE | 11.6 | 10.9 | 0.7 | Worst Case |
| | 75° | TDV-E | 146.6 | 112.0 | 34.6 | |
| | | TDV-T | 106.8 | 105.2 | 1.6 | |
| | | SOURCE | 11.6 | 10.9 | 0.7 | |
| | 120° | TDV-E | 187.7 | 111.3 | 76.3 | |
| | | TDV-T | 147.9 | 104.7 | 43.1 | |
| | | SOURCE | 15.5 | 10.9 | 4.6 | |
| | 165° | TDV-E | 189.7 | 110.8 | 78.9 | |
| | | TDV-T | 149.9 | 103.9 | 46.0 | |
| | | SOURCE | 15.7 | 10.8 | 4.8 | |
| | 210° | TDV-E | 149.7 | 112.1 | 37.6 | |
| | | TDV-T | 109.9 | 105.2 | 4.7 | |
| | | SOURCE | 11.9 | 10.9 | 1.0 | |
| | 255° | TDV-E | 197.2 | 111.8 | 85.4 | |
| | | TDV-T | 157.4 | 105.0 | 52.4 | |
| | | SOURCE | 16.3 | 10.9 | 5.4 | |
| | 300° | TDV-E | 188.1 | 111.2 | 76.9 | |
| | | TDV-T | 148.3 | 104.5 | 43.9 | |
| | | SOURCE | 15.5 | 10.9 | 4.7 | |
| | 345° | TDV-E | 188.5 | 110.8 | 77.7 | |
| | | TDV-T | 148.7 | 103.9 | 44.8 | |
| | | SOURCE | 15.6 | 10.8 | 4.7 | |
| CZ Group | Climate Zone 13 Fresno | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| C | 30° | TDV-E | 238.2 | 169.5 | 68.8 | |
| | | TDV-T | 187.0 | 169.5 | 17.5 | |
| | | SOURCE | 15.9 | 11.9 | 4.1 | Worst Case |
| | 75° | TDV-E | 244.3 | 174.9 | 69.3 | |
| | | TDV-T | 193.0 | 174.9 | 18.1 | |
| | | SOURCE | 16.4 | 12.1 | 4.3 | |
| | 120° | TDV-E | 259.1 | 173.9 | 85.2 | |
| | | TDV-T | 207.8 | 173.9 | 33.9 | |
| | | SOURCE | 17.3 | 12.1 | 5.3 | |
| | 165° | TDV-E | 244.3 | 167.2 | 77.1 | |
| | | TDV-T | 193.0 | 167.2 | 25.8 | |
| | | SOURCE | 16.4 | 11.7 | 4.7 | |
| | 210° | TDV-E | 234.6 | 169.8 | 64.9 | |
| | | TDV-T | 183.3 | 169.8 | 13.6 | |
| | | SOURCE | 16.0 | 11.9 | 4.1 | |
| | 255° | TDV-E | 239.9 | 175.5 | 64.4 | Worst Case |
| | | TDV-T | 188.6 | 175.5 | 13.1 | Worst Case |
| | | SOURCE | 16.4 | 12.2 | 4.2 | |
| | 300° | TDV-E | 242.0 | 174.3 | 67.8 | |
| | | TDV-T | 190.8 | 174.3 | 16.5 | |
| | | SOURCE | 16.2 | 12.1 | 4.1 | |
| | 345° | TDV-E | 243.9 | 167.2 | 76.7 | |
| | | TDV-T | 192.6 | 167.2 | 25.4 | |
| | | SOURCE | 16.5 | 11.7 | 4.8 | |
| CZ Group | Climate Zone 15 Palm Spring-Intl | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| D | 30° | TDV-E | 289.0 | 206.2 | 82.7 | |
| | | TDV-T | 201.2 | 174.2 | 27.0 | |
| | | SOURCE | 15.6 | 11.1 | 4.5 | |
| | 75° | TDV-E | 300.1 | 211.1 | 89.0 | |
| | | TDV-T | 212.3 | 179.7 | 32.6 | |
| | | SOURCE | 16.3 | 11.4 | 4.9 | |
| | 120° | TDV-E | 296.0 | 209.4 | 86.6 | |
| | | TDV-T | 208.2 | 179.0 | 29.2 | |
| | | SOURCE | 15.8 | 11.3 | 4.6 | |
| | 165° | TDV-E | 274.8 | 203.4 | 71.4 | |
| | | TDV-T | 187.0 | 171.3 | 15.7 | |
| | | SOURCE | 14.4 | 10.8 | 3.5 | |
| | 210° | TDV-E | 287.6 | 206.5 | 81.0 | |
| | | TDV-T | 199.8 | 174.5 | 25.3 | |
| | | SOURCE | 15.6 | 11.2 | 4.4 | |
| | 255° | TDV-E | 276.0 | 211.3 | 64.7 | |
| | | TDV-T | 188.2 | 180.0 | 8.3 | |
| | | SOURCE | 15.3 | 11.4 | 3.9 | |
| | 300° | TDV-E | 284.3 | 210.0 | 74.3 | |
| | | TDV-T | 196.6 | 178.5 | 18.1 | |
| | | SOURCE | 15.2 | 11.2 | 4.0 | |
| | 345° | TDV-E | 260.9 | 203.6 | 57.3 | Worst Case |
| | | TDV-T | 173.2 | 171.6 | 1.6 | Worst Case |
| | | SOURCE | 13.5 | 10.8 | 2.7 | Worst Case |

## PC DESIGN REVIEW INFORMATION

### Title 24-2022, Part 6, Energy Code

Model Name and Option: AMS 96x40
Calculation Date/Time of Energy Report: 9/3/2023
Total Floor Area: 3840
DSA Application:
HVAC System Type: VSHP

| CZ Group | Climate Zone 16 Blue Canyon | Metric | Standard Design | Proposed Design | Margin | Worst Case |
|---|---|---|---|---|---|---|
| A | 30° | TDV-E | 255.6 | 208.5 | 47.1 | |
| | | TDV-T | 216.0 | 207.0 | 9.0 | |
| | | SOURCE | 30.0 | 19.6 | 10.4 | |
| | 75° | TDV-E | 267.3 | 211.0 | 56.3 | |
| | | TDV-T | 227.7 | 209.5 | 18.2 | |
| | | SOURCE | 30.6 | 19.8 | 10.8 | |
| | 120° | TDV-E | 257.2 | 211.0 | 46.3 | |
| | | TDV-T | 217.6 | 209.6 | 8.1 | |
| | | SOURCE | 30.1 | 19.8 | 10.3 | |
| | 165° | TDV-E | 284.6 | 208.1 | 76.5 | |
| | | TDV-T | 245.0 | 206.6 | 38.4 | |
| | | SOURCE | 40.3 | 19.6 | 20.7 | |
| | 210° | TDV-E | 260.9 | 209.1 | 51.8 | |
| | | TDV-T | 221.3 | 207.6 | 13.7 | |
| | | SOURCE | 30.3 | 19.6 | 10.7 | |
| | 255° | TDV-E | 273.7 | 211.0 | 62.7 | |
| | | TDV-T | 234.1 | 209.5 | 24.6 | |
| | | SOURCE | 30.8 | 19.8 | 11.1 | |
| | 300° | TDV-E | 261.3 | 210.3 | 50.9 | |
| | | TDV-T | 221.7 | 208.9 | 12.8 | |
| | | SOURCE | 30.2 | 19.8 | 10.4 | |
| | 345° | TDV-E | 246.8 | 207.3 | 39.5 | Worst Case |
| | | TDV-T | 207.2 | 205.8 | 1.4 | Worst Case |
| | | SOURCE | 29.4 | 19.5 | 9.9 | Worst Case |
| CZ Group | Climate Zone 05 Santa Maria | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| B | 30° | TDV-E | 184.3 | 116.3 | 68.0 | |
| | | TDV-T | 144.5 | 116.3 | 28.2 | |
| | | SOURCE | 15.1 | 11.5 | 3.6 | |
| | 75° | TDV-E | 184.3 | 116.3 | 68.0 | |
| | | TDV-T | 144.5 | 116.3 | 28.2 | |
| | | SOURCE | 15.2 | 11.5 | 3.6 | |
| | 120° | TDV-E | 205.2 | 115.5 | 89.6 | |
| | | TDV-T | 165.4 | 115.5 | 49.8 | |
| | | SOURCE | 17.0 | 11.5 | 5.5 | |
| | 165° | TDV-E | 201.6 | 114.6 | 87.0 | |
| | | TDV-T | 161.8 | 114.6 | 47.2 | |
| | | SOURCE | 16.7 | 11.5 | 5.2 | |
| | 210° | TDV-E | 179.5 | 115.8 | 63.7 | Worst Case |
| | | TDV-T | 139.7 | 115.8 | 23.9 | Worst Case |
| | | SOURCE | 14.8 | 11.5 | 3.2 | Worst Case |
| | 255° | TDV-E | 209.5 | 115.8 | 93.8 | |
| | | TDV-T | 169.7 | 115.8 | 54.0 | |
| | | SOURCE | 17.3 | 11.5 | 5.8 | |
| | 300° | TDV-E | 200.8 | 115.0 | 85.8 | |
| | | TDV-T | 161.0 | 115.0 | 46.1 | |
| | | SOURCE | 16.6 | 11.5 | 5.2 | |
| | 345° | TDV-E | 205.6 | 114.5 | 91.1 | |
| | | TDV-T | 165.8 | 114.5 | 51.3 | |
| | | SOURCE | 17.0 | 11.4 | 5.6 | |
| CZ Group | Climate Zone 13 Fresno | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| C | 30° | TDV-E | 286.6 | 214.7 | 71.9 | |
| | | TDV-T | 235.3 | 214.7 | 20.6 | |
| | | SOURCE | 20.5 | 16.1 | 4.3 | |
| | 75° | TDV-E | 298.0 | 219.9 | 78.1 | |
| | | TDV-T | 246.7 | 219.9 | 26.8 | |
| | | SOURCE | 21.2 | 16.4 | 4.9 | |
| | 120° | TDV-E | 291.6 | 218.5 | 73.1 | |
| | | TDV-T | 240.3 | 218.5 | 21.8 | |
| | | SOURCE | 20.8 | 16.4 | 4.5 | |
| | 165° | TDV-E | 270.2 | 212.0 | 58.2 | Worst Case |
| | | TDV-T | 218.9 | 212.0 | 7.0 | Worst Case |
| | | SOURCE | 19.2 | 16.0 | 3.2 | Worst Case |
| | 210° | TDV-E | 281.8 | 214.2 | 67.6 | |
| | | TDV-T | 230.5 | 214.2 | 16.3 | |
| | | SOURCE | 20.2 | 16.2 | 4.0 | |
| | 255° | TDV-E | 291.0 | 218.8 | 72.3 | |
| | | TDV-T | 239.8 | 218.8 | 21.0 | |
| | | SOURCE | 20.8 | 16.4 | 4.4 | |
| | 300° | TDV-E | 286.4 | 217.8 | 68.6 | |
| | | TDV-T | 235.1 | 217.8 | 17.3 | |
| | | SOURCE | 20.4 | 16.3 | 4.1 | |
| | 345° | TDV-E | 270.6 | 211.9 | 58.7 | |
| | | TDV-T | 219.3 | 211.9 | 7.5 | |
| | | SOURCE | 19.3 | 15.9 | 3.4 | |
| CZ Group | Climate Zone 15 Palm Spring-Intl | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| D | 30° | TDV-E | 309.4 | 250.4 | 59.0 | |
| | | TDV-T | 221.6 | 203.1 | 18.5 | |
| | | SOURCE | 18.4 | 13.9 | 4.4 | |
| | 75° | TDV-E | 321.6 | 254.3 | 67.2 | |
| | | TDV-T | 233.8 | 208.0 | 25.8 | |
| | | SOURCE | 19.3 | 14.2 | 5.0 | |
| | 120° | TDV-E | 320.6 | 252.3 | 68.3 | |
| | | TDV-T | 232.8 | 207.4 | 25.4 | |
| | | SOURCE | 19.0 | 14.1 | 4.9 | |
| | 165° | TDV-E | 290.6 | 246.7 | 43.9 | Worst Case |
| | | TDV-T | 202.8 | 199.3 | 3.5 | Worst Case |
| | | SOURCE | 16.9 | 13.6 | 3.3 | Worst Case |
| | 210° | TDV-E | 311.8 | 249.5 | 62.2 | |
| | | TDV-T | 224.0 | 202.2 | 21.7 | |
| | | SOURCE | 18.6 | 13.9 | 4.7 | |
| | 255° | TDV-E | 326.8 | 253.5 | 73.2 | |
| | | TDV-T | 239.0 | 207.2 | 31.8 | |
| | | SOURCE | 19.8 | 14.2 | 5.6 | |
| | 300° | TDV-E | 317.1 | 252.7 | 64.4 | |
| | | TDV-T | 229.3 | 206.1 | 23.2 | |
| | | SOURCE | 18.8 | 14.0 | 4.9 | |
| | 345° | TDV-E | 298.7 | 247.7 | 51.1 | |
| | | TDV-T | 211.0 | 200.3 | 10.7 | |
| | | SOURCE | 17.4 | 13.6 | 3.8 | |

## PC DESIGN REVIEW INFORMATION

### Title 24-2022, Part 6, Energy Code

Model Name and Option: AMS 108x40
Calculation Date/Time of Energy Report: 9/3/2023
Total Floor Area: 4320
DSA Application:
HVAC System Type: VSHP

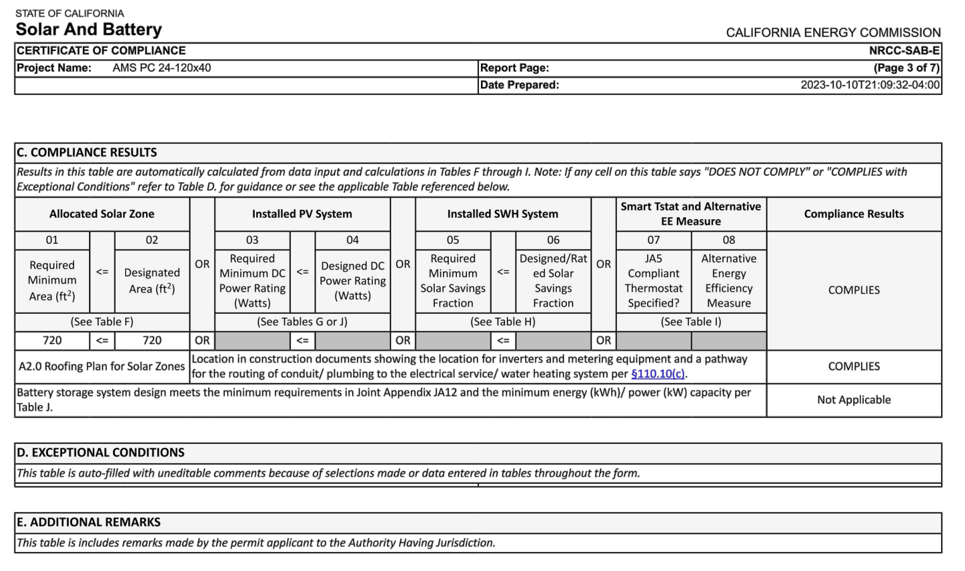
| CZ Group | Climate Zone 16 Blue Canyon | Metric | Standard Design | Proposed Design | Margin | Worst Case |
|---|---|---|---|---|---|---|
| A | 30° | TDV-E | 254.3 | 193.0 | 61.3 | |
| | | TDV-T | 214.7 | 193.0 | 21.7 | |
| | | SOURCE | 29.0 | 17.9 | 11.2 | |
| | 75° | TDV-E | 268.1 | 196.2 | 71.9 | |
| | | TDV-T | 228.5 | 196.2 | 32.3 | |
| | | SOURCE | 29.7 | 18.1 | 11.6 | |
| | 120° | TDV-E | 256.3 | 195.7 | 60.6 | |
| | | TDV-T | 216.7 | 195.7 | 21.0 | |
| | | SOURCE | 29.1 | 18.1 | 11.0 | |
| | 165° | TDV-E | 267.6 | 191.9 | 75.7 | |
| | | TDV-T | 228.0 | 191.9 | 36.1 | |
| | | SOURCE | 35.4 | 17.8 | 17.6 | |
| | 210° | TDV-E | 255.7 | 192.6 | 63.2 | |
| | | TDV-T | 216.1 | 192.6 | 23.6 | |
| | | SOURCE | 29.1 | 17.8 | 11.3 | |
| | 255° | TDV-E | 268.1 | 195.2 | 72.9 | |
| | | TDV-T | 228.5 | 195.2 | 33.3 | |
| | | SOURCE | 29.7 | 18.0 | 11.6 | |
| | 300° | TDV-E | 257.4 | 194.8 | 62.6 | |
| | | TDV-T | 217.8 | 194.8 | 23.0 | |
| | | SOURCE | 29.1 | 18.0 | 11.1 | |
| | 345° | TDV-E | 239.5 | 191.5 | 47.9 | Worst Case |
| | | TDV-T | 199.9 | 191.5 | 8.3 | Worst Case |
| | | SOURCE | 28.2 | 17.7 | 10.4 | Worst Case |
| CZ Group | Climate Zone 05 Santa Maria | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| B | 30° | TDV-E | 178.8 | 110.7 | 68.1 | Worst Case |
| | | TDV-T | 139.0 | 110.7 | 28.3 | Worst Case |
| | | SOURCE | 14.5 | 10.9 | 3.6 | Worst Case |
| | 75° | TDV-E | 199.4 | 110.9 | 88.5 | |
| | | TDV-T | 159.6 | 110.9 | 48.7 | |
| | | SOURCE | 16.2 | 11.0 | 5.3 | |
| | 120° | TDV-E | 190.9 | 110.1 | 80.8 | |
| | | TDV-T | 151.1 | 110.1 | 41.0 | |
| | | SOURCE | 15.6 | 10.9 | 4.7 | |
| | 165° | TDV-E | 191.2 | 109.3 | 81.9 | |
| | | TDV-T | 151.4 | 109.3 | 42.1 | |
| | | SOURCE | 15.6 | 10.9 | 4.8 | |
| | 210° | TDV-E | 198.6 | 110.6 | 88.0 | |
| | | TDV-T | 158.8 | 110.6 | 48.2 | |
| | | SOURCE | 16.2 | 10.9 | 5.3 | |
| | 255° | TDV-E | 199.2 | 110.6 | 88.5 | |
| | | TDV-T | 159.4 | 110.6 | 48.7 | |
| | | SOURCE | 16.2 | 10.9 | 5.3 | |
| | 300° | TDV-E | 190.5 | 109.8 | 80.8 | |
| | | TDV-T | 150.7 | 109.8 | 41.0 | |
| | | SOURCE | 15.5 | 10.9 | 4.7 | |
| | 345° | TDV-E | 191.6 | 109.2 | 82.4 | |
| | | TDV-T | 151.8 | 109.2 | 42.6 | |
| | | SOURCE | 15.6 | 10.8 | 4.7 | |
| CZ Group | Climate Zone 13 Fresno | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| C | 30° | TDV-E | 252.5 | 166.6 | 85.9 | |
| | | TDV-T | 201.2 | 166.6 | 34.6 | |
| | | SOURCE | 17.3 | 11.7 | 5.6 | |
| | 75° | TDV-E | 260.0 | 172.7 | 87.3 | |
| | | TDV-T | 208.7 | 172.7 | 36.0 | |
| | | SOURCE | 17.8 | 11.9 | 5.8 | |
| | 120° | TDV-E | 256.8 | 171.2 | 85.6 | |
| | | TDV-T | 205.5 | 171.2 | 34.4 | |
| | | SOURCE | 17.4 | 11.9 | 5.6 | |
| | 165° | TDV-E | 265.9 | 163.6 | 102.3 | |
| | | TDV-T | 214.6 | 163.6 | 51.0 | |
| | | SOURCE | 18.8 | 11.4 | 7.3 | |
| | 210° | TDV-E | 250.4 | 166.1 | 84.3 | |
| | | TDV-T | 199.1 | 166.1 | 33.0 | |
| | | SOURCE | 17.1 | 11.6 | 5.4 | Worst Case |
| | 255° | TDV-E | 261.8 | 173.0 | 88.8 | |
| | | TDV-T | 210.6 | 173.0 | 37.6 | |
| | | SOURCE | 17.7 | 11.9 | 5.8 | |
| | 300° | TDV-E | 255.9 | 171.9 | 84.0 | Worst Case |
| | | TDV-T | 204.7 | 171.9 | 32.8 | Worst Case |
| | | SOURCE | 17.3 | 11.8 | 5.5 | |
| | 345° | TDV-E | 266.7 | 164.2 | 102.5 | |
| | | TDV-T | 215.5 | 164.2 | 51.3 | |
| | | SOURCE | 18.8 | 11.4 | 7.4 | |
| CZ Group | Climate Zone 15 Palm Spring-Intl | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| D | 30° | TDV-E | 308.0 | 198.9 | 109.1 | |
| | | TDV-T | 220.2 | 181.7 | 38.5 | |
| | | SOURCE | 18.3 | 11.3 | 7.0 | |
| | 75° | TDV-E | 321.9 | 204.3 | 117.6 | |
| | | TDV-T | 234.2 | 187.6 | 46.6 | |
| | | SOURCE | 19.3 | 11.5 | 7.7 | |
| | 120° | TDV-E | 312.6 | 202.6 | 110.0 | |
| | | TDV-T | 224.9 | 186.4 | 38.5 | |
| | | SOURCE | 18.5 | 11.4 | 7.1 | |
| | 165° | TDV-E | 267.7 | 195.7 | 72.0 | Worst Case |
| | | TDV-T | 180.0 | 178.6 | 1.4 | Worst Case |
| | | SOURCE | 14.5 | 10.9 | 3.5 | Worst Case |
| | 210° | TDV-E | 309.6 | 198.8 | 110.8 | |
| | | TDV-T | 221.8 | 181.7 | 40.1 | |
| | | SOURCE | 18.4 | 11.3 | 7.1 | |
| | 255° | TDV-E | 301.1 | 205.1 | 96.0 | |
| | | TDV-T | 213.4 | 188.3 | 25.0 | |
| | | SOURCE | 17.0 | 11.6 | 5.4 | |
| | 300° | TDV-E | 293.1 | 203.5 | 89.6 | |
| | | TDV-T | 205.4 | 186.7 | 18.7 | |
| | | SOURCE | 16.2 | 11.4 | 4.9 | |
| | 345° | TDV-E | 269.8 | 196.2 | 73.6 | |
| | | TDV-T | 182.0 | 179.1 | 3.0 | |
| | | SOURCE | 14.6 | 11.0 | 3.6 | |

## PC DESIGN REVIEW INFORMATION

### Title 24-2022, Part 6, Energy Code

Model Name and Option: AMS 120x40
Calculation Date/Time of Energy Report: 9/3/2023
Total Floor Area: 4800
DSA Application:
HVAC System Type: VSHP

| CZ Group | Climate Zone 16 Blue Canyon | Metric | Standard Design | Proposed Design | Margin | Worst Case |
|---|---|---|---|---|---|---|
| A | 30° | TDV-E | 253.4 | 205.8 | 47.6 | |
| | | TDV-T | 213.8 | 205.8 | 8.0 | |
| | | SOURCE | 29.5 | 19.3 | 10.2 | |
| | 75° | TDV-E | 265.3 | 208.5 | 56.8 | |
| | | TDV-T | 225.7 | 208.5 | 17.2 | |
| | | SOURCE | 30.1 | 19.6 | 10.5 | |
| | 120° | TDV-E | 255.1 | 208.5 | 46.6 | |
| | | TDV-T | 215.5 | 208.5 | 7.0 | |
| | | SOURCE | 29.6 | 19.6 | 10.0 | |
| | 165° | TDV-E | 282.2 | 205.5 | 76.6 | |
| | | TDV-T | 242.6 | 205.5 | 37.0 | |
| | | SOURCE | 39.8 | 19.4 | 20.4 | |
| | 210° | TDV-E | 258.7 | 206.5 | 52.2 | |
| | | TDV-T | 219.1 | 206.5 | 12.6 | |
| | | SOURCE | 29.8 | 19.4 | 10.4 | |
| | 255° | TDV-E | 271.8 | 208.5 | 63.3 | |
| | | TDV-T | 232.2 | 208.5 | 23.7 | |
| | | SOURCE | 30.4 | 19.6 | 10.8 | |
| | 300° | TDV-E | 259.0 | 207.9 | 51.1 | |
| | | TDV-T | 219.4 | 207.9 | 11.5 | |
| | | SOURCE | 29.7 | 19.6 | 10.1 | |
| | 345° | TDV-E | 244.3 | 204.7 | 39.7 | Worst Case |
| | | TDV-T | 204.7 | 204.7 | 0.1 | Worst Case |
| | | SOURCE | 28.9 | 19.3 | 9.6 | Worst Case |
| CZ Group | Climate Zone 05 Santa Maria | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| B | 30° | TDV-E | 183.1 | 115.4 | 67.7 | Worst Case |
| | | TDV-T | 143.3 | 115.4 | 27.9 | Worst Case |
| | | SOURCE | 15.0 | 11.4 | 3.6 | Worst Case |
| | 75° | TDV-E | 214.0 | 115.6 | 98.5 | |
| | | TDV-T | 174.2 | 115.6 | 58.7 | |
| | | SOURCE | 17.6 | 11.4 | 6.2 | |
| | 120° | TDV-E | 204.0 | 114.7 | 89.3 | |
| | | TDV-T | 164.2 | 114.7 | 49.5 | |
| | | SOURCE | 16.9 | 11.4 | 5.4 | |
| | 165° | TDV-E | 200.4 | 113.8 | 86.6 | |
| | | TDV-T | 160.6 | 113.8 | 46.8 | |
| | | SOURCE | 16.6 | 11.4 | 5.2 | |
| | 210° | TDV-E | 207.4 | 115.0 | 92.4 | |
| | | TDV-T | 167.6 | 115.0 | 52.6 | |
| | | SOURCE | 17.1 | 11.4 | 5.6 | |
| | 255° | TDV-E | 208.3 | 115.0 | 93.3 | |
| | | TDV-T | 168.5 | 115.0 | 53.5 | |
| | | SOURCE | 17.1 | 11.4 | 5.7 | |
| | 300° | TDV-E | 199.7 | 114.1 | 85.5 | |
| | | TDV-T | 159.9 | 114.1 | 45.7 | |
| | | SOURCE | 16.5 | 11.4 | 5.1 | |
| | 345° | TDV-E | 204.4 | 113.7 | 90.8 | |
| | | TDV-T | 164.6 | 113.7 | 51.0 | |
| | | SOURCE | 16.8 | 11.3 | 5.5 | |
| CZ Group | Climate Zone 13 Fresno | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| C | 30° | TDV-E | 284.6 | 213.3 | 71.2 | |
| | | TDV-T | 233.3 | 213.3 | 20.0 | |
| | | SOURCE | 20.3 | 16.0 | 4.3 | |
| | 75° | TDV-E | 296.1 | 218.7 | 77.4 | |
| | | TDV-T | 244.9 | 218.7 | 26.1 | |
| | | SOURCE | 21.1 | 16.3 | 4.8 | |
| | 120° | TDV-E | 289.7 | 217.3 | 72.4 | |
| | | TDV-T | 238.4 | 217.3 | 21.1 | |
| | | SOURCE | 20.7 | 16.3 | 4.4 | |
| | 165° | TDV-E | 268.3 | 210.6 | 57.7 | Worst Case |
| | | TDV-T | 217.0 | 210.6 | 6.4 | Worst Case |
| | | SOURCE | 19.0 | 15.9 | 3.2 | Worst Case |
| | 210° | TDV-E | 279.7 | 212.8 | 66.9 | |
| | | TDV-T | 228.5 | 212.8 | 15.7 | |
| | | SOURCE | 20.0 | 16.1 | 3.9 | |
| | 255° | TDV-E | 289.3 | 217.6 | 71.7 | |
| | | TDV-T | 238.0 | 217.6 | 20.4 | |
| | | SOURCE | 20.6 | 16.3 | 4.3 | |
| | 300° | TDV-E | 284.5 | 216.6 | 67.9 | |
| | | TDV-T | 233.2 | 216.6 | 16.6 | |
| | | SOURCE | 20.2 | 16.2 | 4.0 | |
| | 345° | TDV-E | 268.7 | 210.5 | 58.3 | |
| | | TDV-T | 217.5 | 210.5 | 7.0 | |
| | | SOURCE | 19.1 | 15.8 | 3.3 | |
| CZ Group | Climate Zone 15 Palm Spring-Intl | Azimuth (Front Orientation) | Standard Design | Proposed Design | Margin | Worst Case |
| D | 30° | TDV-E | 307.5 | 249.0 | 58.5 | |
| | | TDV-T | 219.7 | 200.0 | 19.7 | |
| | | SOURCE | 18.2 | 13.8 | 4.4 | |
| | 75° | TDV-E | 319.8 | 253.2 | 66.6 | |
| | | TDV-T | 232.0 | 205.1 | 26.8 | |
| | | SOURCE | 19.1 | 14.1 | 5.0 | |
| | 120° | TDV-E | 318.4 | 251.1 | 67.3 | |
| | | TDV-T | 230.7 | 204.5 | 26.2 | |
| | | SOURCE | 18.9 | 14.0 | 4.9 | |
| | 165° | TDV-E | 288.6 | 245.2 | 43.4 | Worst Case |
| | | TDV-T | 200.8 | 196.1 | 4.7 | Worst Case |
| | | SOURCE | 16.7 | 13.4 | 3.3 | Worst Case |
| | 210° | TDV-E | 309.8 | 248.1 | 61.7 | |
| | | TDV-T | 222.1 | 199.1 | 23.0 | |
| | | SOURCE | 18.5 | 13.8 | 4.7 | |
| | 255° | TDV-E | 325.0 | 252.4 | 72.6 | |
| | | TDV-T | 237.3 | 204.4 | 32.9 | |
| | | SOURCE | 19.6 | 14.0 | 5.6 | |
| | 300° | TDV-E | 315.2 | 251.5 | 63.7 | |
| | | TDV-T | 227.4 | 203.2 | 24.3 | |
| | | SOURCE | 18.7 | 13.8 | 4.9 | |
| | 345° | TDV-E | 296.8 | 246.3 | 50.5 | |
| | | TDV-T | 209.0 | 197.1 | 11.9 | |
| | | SOURCE | 17.2 | 13.4 | 3.8 | |



STATE OF CALIFORNIA
**Solar And Battery**
CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| **CERTIFICATE OF COMPLIANCE** | **NRCC-SAB-E** |
| **Project Name:** AMS PC 24-120x40 | **Report Page:** (Page 3 of 7) |
| | **Date Prepared:** 2023-10-10T21:09:32-04:00 |

**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) | | |
| 720 | <= | 720 | 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 |

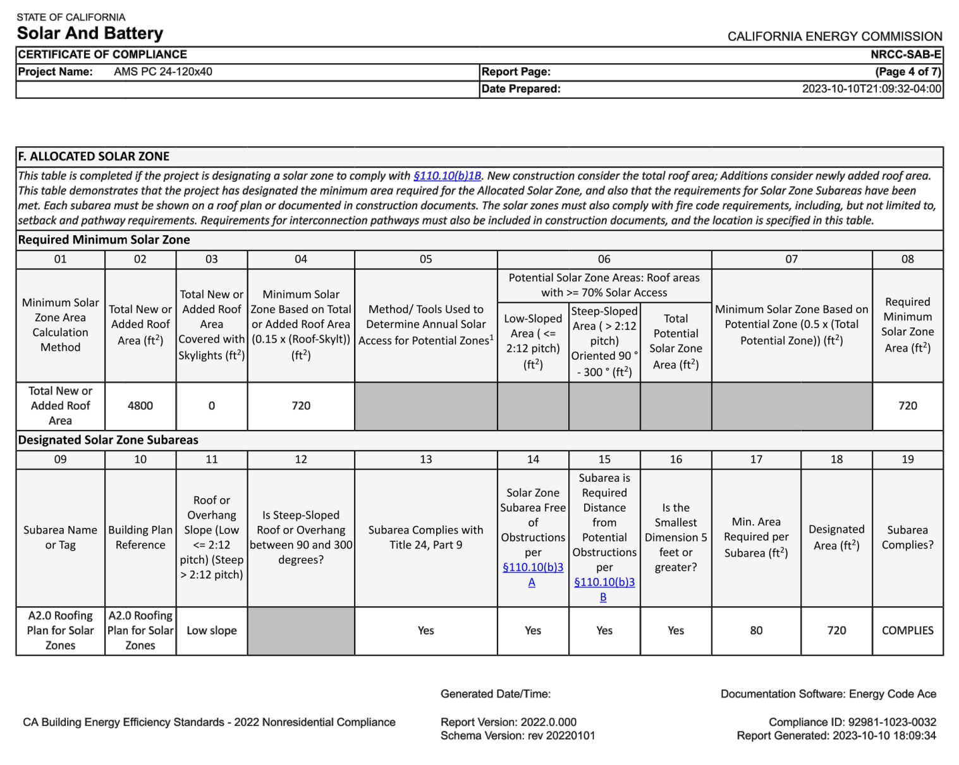
**D. EXCEPTIONAL CONDITIONS**

*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.*

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time:
Report Version: 2022.0.000
Schema Version: rev 20220101
Documentation Software: Energy Code Ace
Compliance ID: 92981-1023-0032
Report Generated: 2023-10-10 18:09:34



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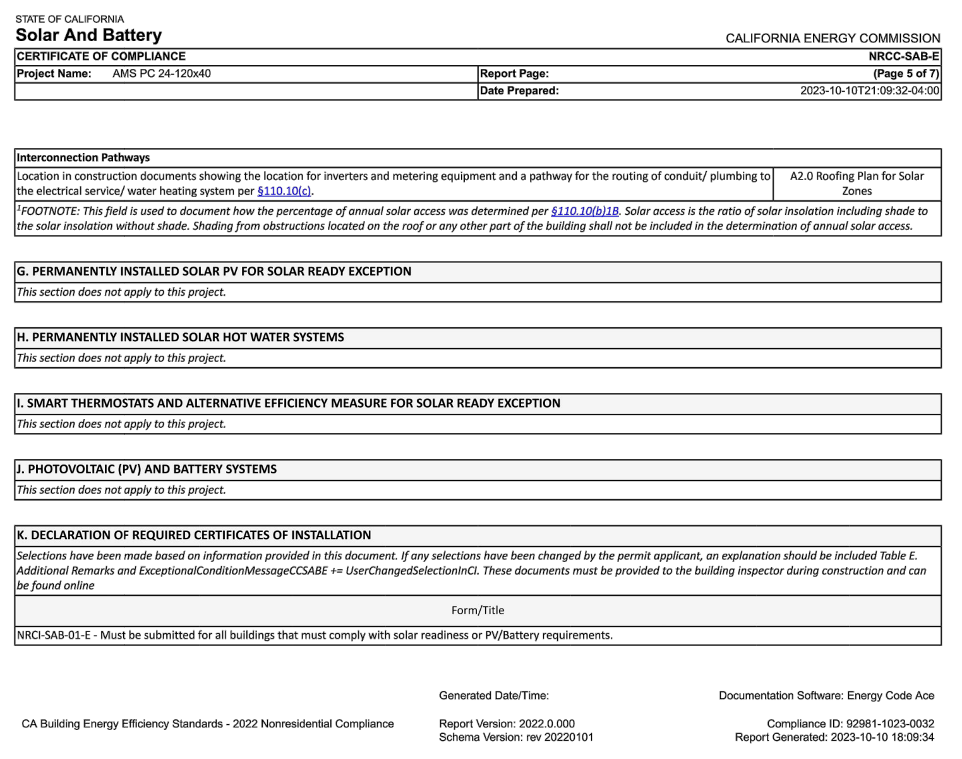
**Solar And Battery**
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
Project Name: AMS PC 24-120x40

F. ALLOCATED SOLAR ZONE



STATE OF CALIFORNIA
**Solar And Battery**
CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| **CERTIFICATE OF COMPLIANCE** | **NRCC-SAB-E** |
| **Project Name:** AMS PC 24-120x40 | **Report Page:** (Page 5 of 7) |
| | **Date Prepared:** 2023-10-10T21:09:32-04:00 |

| **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. |

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time:
Report Version: 2022.0.000
Schema Version: rev 20220101
Documentation Software: Energy Code Ace
Compliance ID: 92981-1023-0032
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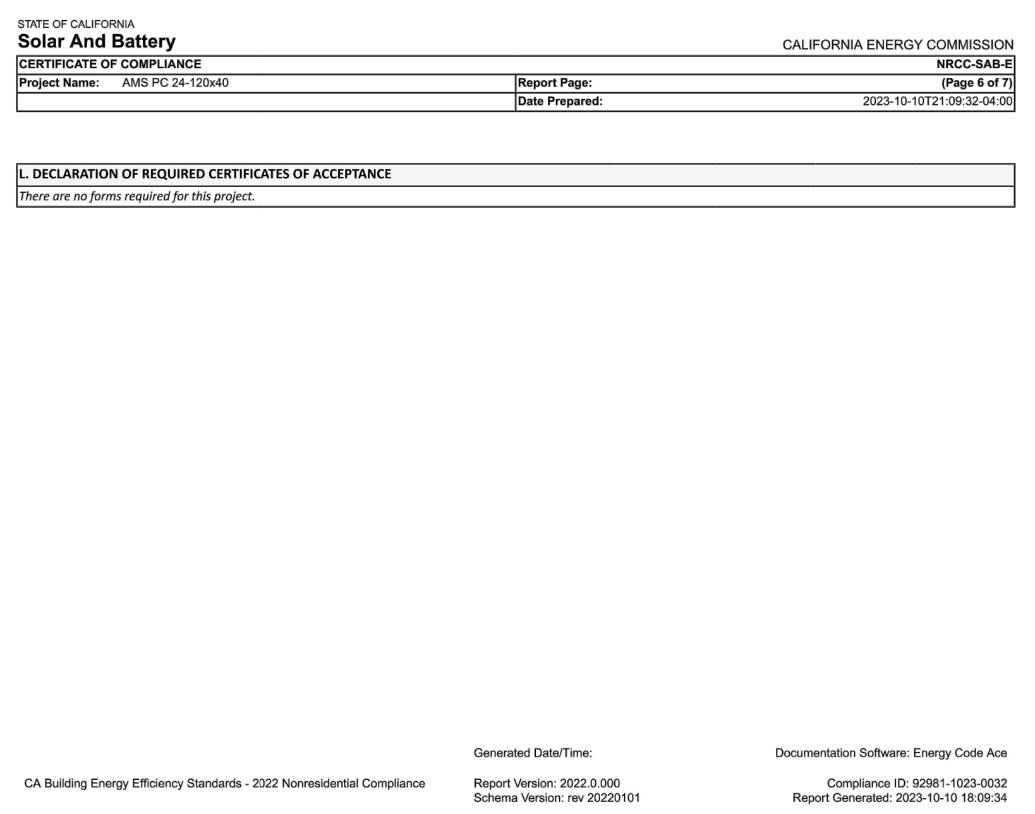
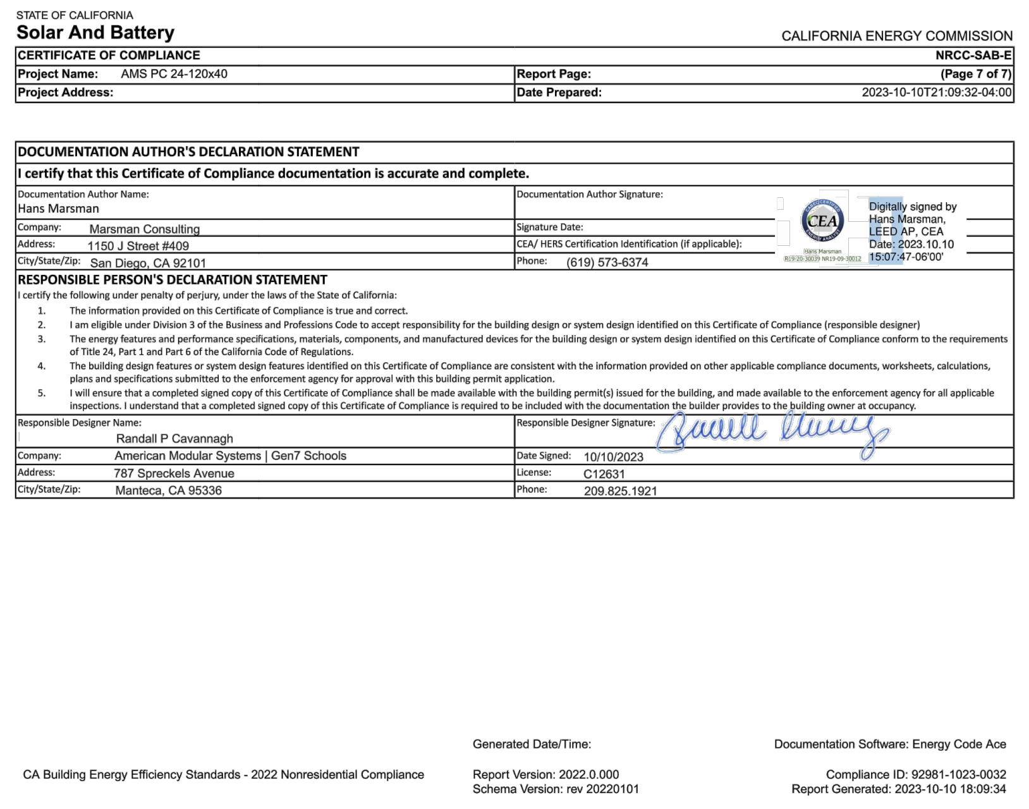


STATE OF CALIFORNIA
**Solar And Battery**
CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE
Project Name: AMS PC 24-120x40

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance



STATE OF CALIFORNIA
**Solar And Battery**
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CERTIFICATE OF COMPLIANCE
NRCC-SAB-E
(Page 7 of 7)
2023-10-10T21:09:32-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

RESPONSIBLE PERSON'S DECLARATION STATEMENT

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Documentation Software: Energy Code Ace
Compliance ID: 92981-1023-0032
Report Generated: 2023-10-10 18:09:34

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DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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PRE-CHECKED SET NAME

# 24' x 40' THRU 120' x 40' STANDARD MODULAR BUILDING (LOW SEISMIC)

FORM

SITE SPECIFIC PROJECT NAME

.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ **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: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

ENERGY CALCULATIONS SUMMATION SHEET

SHEET NUMBER:

EN.1B

| | | | |
|---|---|---|---|
| **Project Name:** | **AMS PC 36x40** | **Date Prepared:** | **2023-09-03** |

**A. General Information**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Project Name | AMS PC 36x40 | | | |
| 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) | 120 |
| 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 ($ft^2$) | 1440 | 15 | Total # of hotel/motel rooms | 0 |
| 16 | Total Unconditioned Floor Area ($ft^2$) | 0 | 17 | Fuel Type | None |
| 18 | Nonresidential Conditioned Floor Area | 1440 | 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/$ft^2$ - yr) | Total[2] (kBtu/$ft^2$ - yr) | Total[2] (kBtu/$ft^2$ - yr) |
| Standard Design | 181.07 | 181.07 | 17.04 |
| Proposed Design | 109.62 | 109.62 | 11.29 |
| **Compliance Margins** | **71.45** | **71.45** | **5.75** |
| | **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/$ft^2$ - yr)**

**COMPLIES[2]**

| Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Space Heating | 20.88 | 57.86 | -36.98 |
| Space Cooling | 17.61 | 19.34 | -1.73 |
| Indoor Fans | 119.29 | 20.66 | 98.63 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 0 | 0 | 0 |
| Indoor Lighting | 23.29 | 11.76 | 11.53 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **181.07** | **109.62** | **71.45 (39.5%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **181.07** | **109.62** | **71.45 (39.5%)** |

[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 | 65.37 | 65.37 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **246.44** | **174.99** | **71.45 (29%)** |

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

---

**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 | 2.85 | 7.46 | -4.61 |
| Space Cooling | 0.56 | 0.67 | -0.11 |
| Indoor Fans | 11.55 | 2.02 | 9.53 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 0 | 0 | 0 |
| Indoor Lighting | 2.08 | 1.14 | 0.94 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **17.04** | **11.29** | **5.75 (33.7%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **17.04** | **11.29** | **5.75 (33.7%)** |

[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 | 4.93 | 4.93 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL ( TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **21.97** | **16.22** | **5.75 (26.2%)** |

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

**C6. 'ABOVE CODE' QUALIFICATIONS**

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

---

**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 | 0.9 | 2.5 | -1.6 | --- | --- | --- |
| Space Cooling | 1.1 | 1.2 | -0.1 | --- | --- | --- |
| Indoor Fans | 6.1 | 1 | 5.1 | --- | --- | --- |
| Heat Rejection | --- | --- | --- | --- | --- | --- |
| Pumps & Misc. | --- | --- | --- | --- | --- | --- |
| Domestic Hot Water | --- | --- | --- | --- | --- | --- |
| Indoor Lighting | 1.1 | 0.5 | 0.6 | --- | --- | --- |
| Flexibility | --- | --- | --- | --- | --- | --- |
| **EFFICIENCY TOTAL** | **9.2** | **5.2** | **4** | **0** | **0** | **0** |
| Photovoltaics | --- | --- | --- | --- | --- | --- |
| Batteries | --- | --- | --- | --- | --- | --- |
| **ENERGY USE SUBTOTAL** | **9.2** | **5.2** | **4** | **0** | **0** | **0** |
| Receptacle | 3.8 | 3.8 | 0 | --- | --- | --- |
| Process | --- | --- | --- | --- | --- | --- |
| Other Ltg | --- | --- | --- | --- | --- | --- |
| Process Motors | --- | --- | --- | --- | --- | --- |
| **ENERGY USE TOTAL** | **13** | **9** | **4** | **0** | **0** | **0** |

---

**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] | 30.8 | 21.32 | 9.48 | 30.78 |
| NET EUI[1] | 30.8 | 21.32 | 9.48 | 30.78 |

[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 | 0 | 0 |
| East-Facing[2] | 360 | 160 | 44.44 |
| South-Facing[3] | 400 | 0 | 0 |
| West-Facing[4] | 360 | 80 | 22.22 |
| **Total** | **1520** | **240** | **15.79** |
| Roof | 1440 | 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 ($ft^2$)** | **Framing Type** | **Cavity R-Value** | **Continuous R-Value** | | **Units** | **Value** | **Description of Assembly Layers** | **Status[1]** |
| | | | | | **Interior** | **Exterior** | | | | |
| Ext Roof | Roof | 1,440 | Metal | 19 | N/A | 5 | U-factor | 0.0528 | Metal Standing Seam - 1/16 in.<br>Compliance Insulation R5.00<br>Plywood - 1/2 in.<br>Roof Structure<br>Air - Roof - 3 1/2 in.<br>Acoustic Tile - 3/8 in. | N |
| Ext Wall | Exterior Wall | 1,520 | Metal | 13 | N/A | 5 | U-factor | 0.0978 | Wood siding - 1/2 in.<br>Vapor permeable felt - 1/8 in.<br>Compliance Insulation R5.00<br>R-13 in Metal Studs<br>Gypsum Board - 1/2 in. | N |
| Floor over Crawlspace | Exterior Floor | 1,440 | N/A | 0 | N/A | N/A | U-factor | 0.104 | Vented Crawl Space<br>Concrete - 140 lb/ft3 - 2 in.<br>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 ($ft^2$)** | **Overall U-factor** | **Status[1]** |
| Door | 42 | 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<br>Fixed window<br>N/A | NFRC | Manufactured | 240 | 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 | 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 | 547.2 | 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) | 36 | 547.2 | 0 | 1440 | N/A |

---

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DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ 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

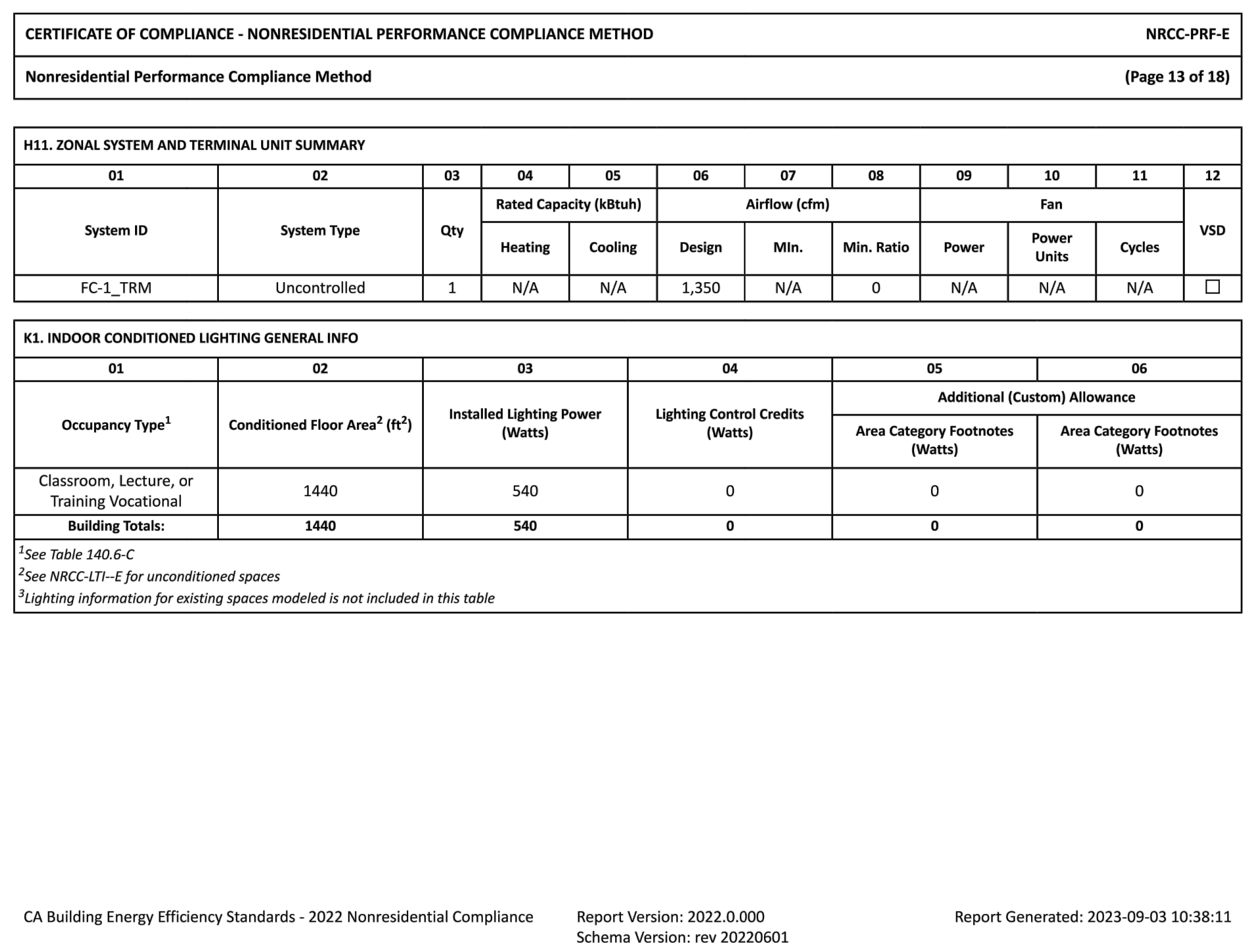
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION
UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS
1
2
3
4

| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:
ENERGY CALCULATIONS
36'x40' BUILDING
GROUP 'B'

SHEET NUMBER:
EN.12



**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] (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 | 1440 | 540 | 0 | 0 | 0 |
| **Building Totals:** | **1440** | **540** | **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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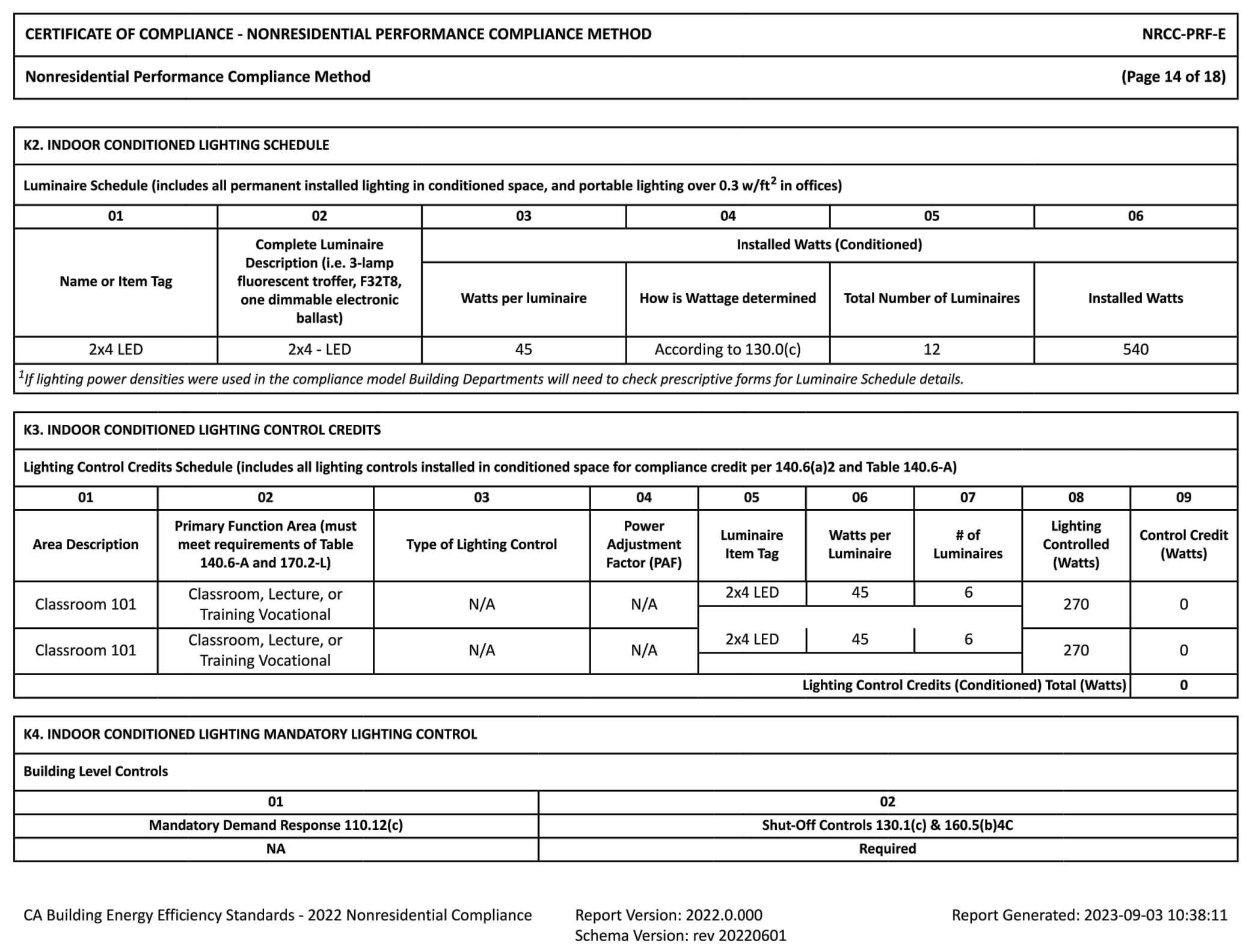

**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**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/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) | 12 | 540 |

[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) |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | 2x4 LED | 45 | 6 | 270 | 0 |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | 2x4 LED | 45 | 6 | 270 | 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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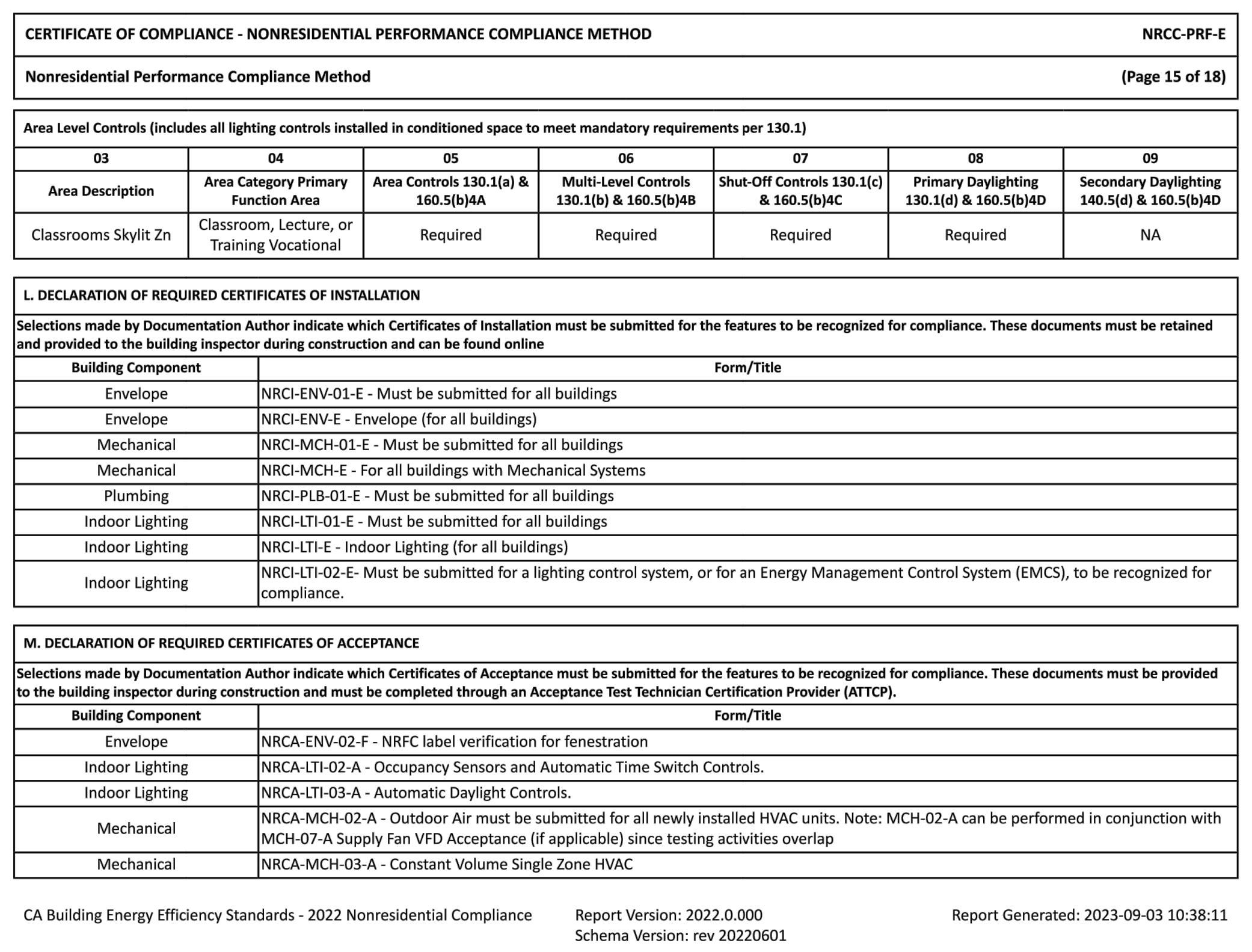

**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**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 Skylit Zn | Classroom, Lecture, or Training Vocational | Required | Required | Required | Required | NA |

**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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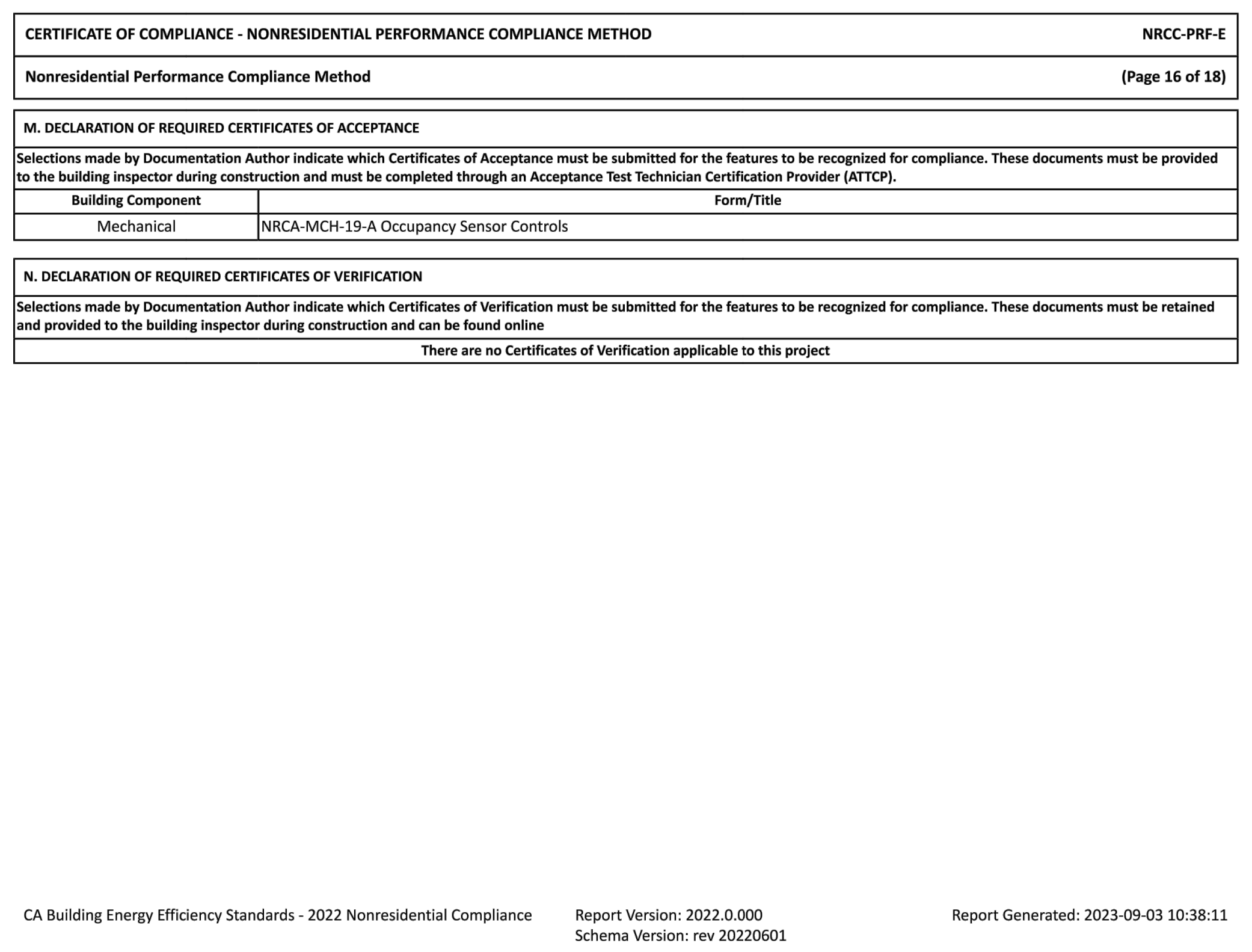

**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**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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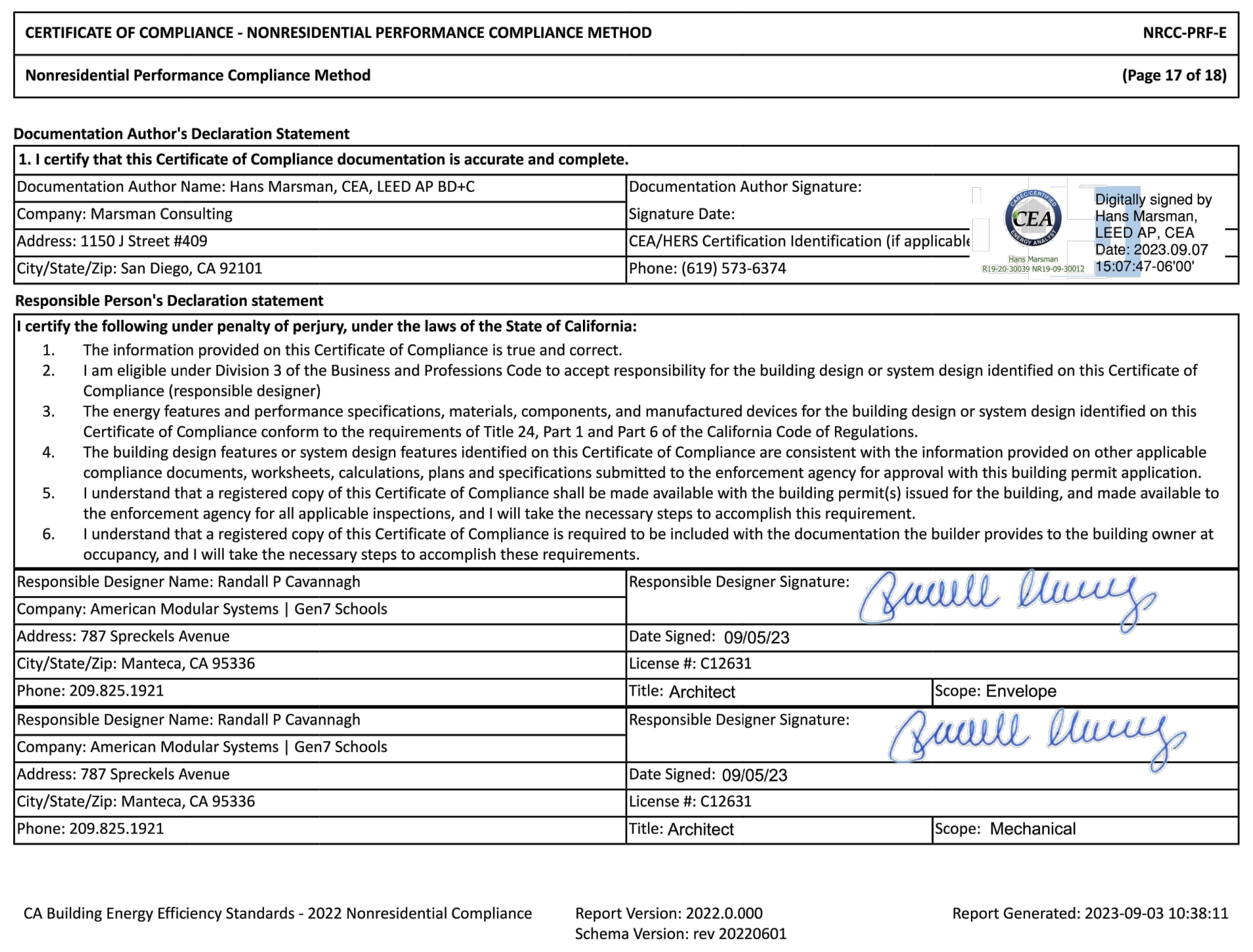

**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**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: 2023.09.07 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: 09/05/23 | |
| City/State/Zip: Manteca, CA 95336 | License #: C12631 | |
| Phone: 209.825.1921 | Title: Architect | Scope: Envelope |
| Responsible Designer Name: Randall P Cavannagh | Responsible Designer Signature: | |
| Company: American Modular Systems \| Gen7 Schools | | |
| Address: 787 Spreckels Avenue | Date Signed: 09/05/23 | |
| City/State/Zip: Manteca, CA 95336 | License #: C12631 | |
| Phone: 209.825.1921 | Title: Architect | Scope: Mechanical |

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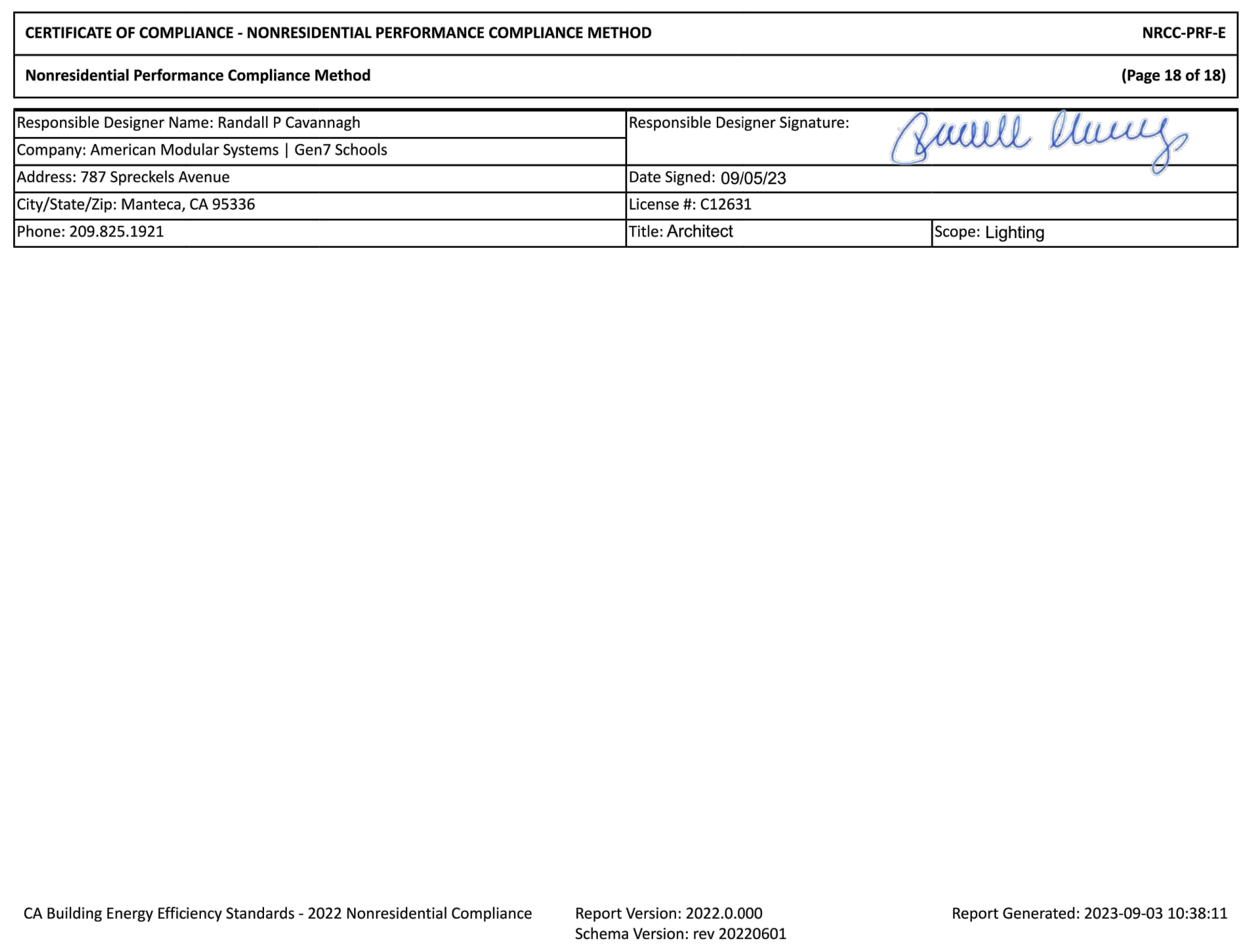

**CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD** — **NRCC-PRF-E**

**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: 09/05/23 | |
| City/State/Zip: Manteca, CA 95336 | License #: C12631 | |
| Phone: 209.825.1921 | Title: Architect | Scope: Lighting |

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
.
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~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ **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

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|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

# ENERGY CALCULATIONS
# 36'x40' BUILDING
# GROUP 'B'

SHEET NUMBER:

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

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

**Project Name:** **AMS PC 36x40** **Date Prepared:** **2023-09-03**

**A. General Information**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Project Name | AMS PC 36x40 | | | |
| 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) | 75 |
| 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$^2$) | 1440 | 15 | Total # of hotel/motel rooms | 0 |
| 16 | Total Unconditioned Floor Area (ft$^2$) | 0 | 17 | Fuel Type | None |
| 18 | Nonresidential Conditioned Floor Area | 1440 | 19 | Total # of Stories (Habitable Above Grade) | 1 |
| 20 | Residential Conditioned Floor Area | 0 | | | |

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

**Nonresidential Performance Compliance Method** **(Page 2 of 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 | 204.88 | 204.88 | 15.2 |
| Proposed Design | 174.85 | 174.85 | 12.43 |
| **Compliance Margins** | **30.03** | **30.03** | **2.77** |
| | **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 | 32.98 | 39.75 | -6.77 |
| Space Cooling | 99.19 | 114.99 | -15.8 |
| Indoor Fans | 51.04 | 9.87 | 41.17 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 0 | 0 | 0 |
| Indoor Lighting | 21.67 | 10.24 | 11.43 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **204.88** | **174.85** | **30.03 (14.7%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **204.88** | **174.85** | **30.03 (14.7%)** |

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

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

**Nonresidential Performance Compliance Method** **(Page 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)** | **270.77** | **240.74** | **30.03 (11.1%)** |

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

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**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 | 4.69 | 5.67 | -0.98 |
| Space Cooling | 4.36 | 4.96 | -0.6 |
| Indoor Fans | 4.08 | 0.67 | 3.41 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 0 | 0 | 0 |
| Indoor Lighting | 2.07 | 1.13 | 0.94 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **15.2** | **12.43** | **2.77 (18.2%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **15.2** | **12.43** | **2.77 (18.2%)** |

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

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

**Nonresidential Performance Compliance Method** **(Page 7 of 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)** | **20.13** | **17.36** | **2.77 (13.8%)** |

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

**C6. 'ABOVE CODE' QUALIFICATIONS**

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

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

**Nonresidential Performance Compliance Method** **(Page 8 of 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 | 1.5 | 1.9 | -0.4 | --- | --- | --- |
| Space Cooling | 3.9 | 4.5 | -0.6 | --- | --- | --- |
| Indoor Fans | 2.3 | 0.4 | 1.9 | --- | --- | --- |
| Heat Rejection | --- | --- | --- | --- | --- | --- |
| Pumps & Misc. | --- | --- | --- | --- | --- | --- |
| Domestic Hot Water | --- | --- | --- | --- | --- | --- |
| Indoor Lighting | 1.1 | 0.5 | 0.6 | --- | --- | --- |
| Flexibility | --- | --- | --- | --- | --- | --- |
| **EFFICIENCY TOTAL** | **8.8** | **7.3** | **1.5** | **0** | **0** | **0** |
| Photovoltaics | --- | --- | --- | --- | --- | --- |
| Batteries | --- | --- | --- | --- | --- | --- |
| **ENERGY USE SUBTOTAL** | **8.8** | **7.3** | **1.5** | **0** | **0** | **0** |
| Receptacle | 3.8 | 3.8 | 0 | --- | --- | --- |
| Process | --- | --- | --- | --- | --- | --- |
| Other Ltg | --- | --- | --- | --- | --- | --- |
| Process Motors | --- | --- | --- | --- | --- | --- |
| **ENERGY USE TOTAL** | **12.6** | **11.1** | **1.5** | **0** | **0** | **0** |

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**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] | 29.85 | 26.3 | 3.55 | 11.89 |
| NET EUI[1] | 29.85 | 26.3 | 3.55 | 11.89 |

*[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 | 0 | 0 |
| East-Facing[2] | 360 | 160 | 44.44 |
| South-Facing[3] | 400 | 0 | 0 |
| West-Facing[4] | 360 | 80 | 22.22 |
| **Total** | **1520** | **240** | **15.79** |
| Roof | 1440 | 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),*

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**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 | 1,440 | Metal | 19 | N/A | 5 | U-factor | 0.0528 | Metal Standing Seam - 1/16 in.<br>Compliance Insulation R5.00<br>Plywood - 1/2 in.<br>Roof Structure<br>Air - Roof - 3 1/2 in.<br>Acoustic Tile - 3/8 in. | N |
| Ext Wall | Exterior Wall | 1,520 | Metal | 13 | N/A | 5 | U-factor | 0.0978 | Wood siding - 1/2 in.<br>Vapor permeable felt - 1/8 in.<br>Compliance Insulation R5.00<br>R-13 in Metal Studs<br>Gypsum Board - 1/2 in. | N |
| Floor over Crawlspace | Exterior Floor | 1,440 | N/A | 0 | N/A | N/A | U-factor | 0.104 | Vented Crawl Space<br>Concrete - 140 lb/ft3 - 2 in.<br>Carpet - 3/4 in. | N |

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

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**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 | 42 | 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<br>Fixed window<br>N/A | NFRC | Manufactured | 240 | 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 | Package SZ VAV Heat Pump Air System | 1 | 44.8 | 3.41 | COP<br>HSPF | 3.55<br>8 | 47.5 | EER<br>SEER | 11<br>14 | No Economizer | N |

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

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**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 | 547.2 | 1,600 | 0.7 | InH2O | VSD | 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 | Package SZ VAV Heat Pump Air System | No | Zone(s) With CO2 Sensor Vent. Control |

*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) | 36 | 547.2 | 0 | 1440 | DCV |

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DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)

SITE SPECIFIC PROJECT NAME
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~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

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MANUFACTURER PROFESSIONAL OF RECORD ON PC

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

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|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:
ENERGY CALCULATIONS
36'x40' BUILDING
GROUP 'C'

SHEET NUMBER:
EN.14

**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 | Variable Air Volume No Reheat Box | 1 | N/A | N/A | 1,600 | 650 | 0.41 | 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 | 1440 | 540 | 0 | 0 | 0 |
| **Building Totals:** | **1440** | **540** | **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) | 12 | 540 |

[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) |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | 2x4 LED | 45 | 6 | 270 | 0 |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | 2x4 LED | 45 | 6 | 270 | 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 Skylit Zn | Classroom, Lecture, or Training Vocational | Required | Required | Required | Required | NA |

**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 |

---

**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-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to ) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. |
| Mechanical | NRCA-MCH-07-A Supply Fan Variable Flow Controls |
| 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: 2023.09.07 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: 09/05/23 | |
| City/State/Zip: Manteca, CA 95336 | License #: C12631 | |
| Phone: 209.825.1921 | Title: Architect | Scope: Envelope |
| Responsible Designer Name: Randall P Cavannagh | Responsible Designer Signature: | |
| Company: American Modular Systems \| Gen7 Schools | | |
| Address: 787 Spreckels Avenue | Date Signed: 09/05/23 | |
| City/State/Zip: Manteca, CA 95336 | License #: C12631 | |
| Phone: 209.825.1921 | Title: Architect | Scope: Mechanical |

---

| | | |
|---|---|---|
| Responsible Designer Name: Randall P Cavannagh | Responsible Designer Signature: | |
| Company: American Modular Systems \| Gen7 Schools | | |
| Address: 787 Spreckels Avenue | Date Signed: 09/05/23 | |
| City/State/Zip: Manteca, CA 95336 | License #: C12631 | |
| Phone: 209.825.1921 | Title: Architect | Scope: Lighting |

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PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)

FORM

SITE SPECIFIC PROJECT NAME

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~~APP: 04-122050 PC~~
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RANDALL PATRICK CAVANNAGH
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| 4 | |

| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

ENERGY CALCULATIONS
36'x40' BUILDING
GROUP 'C'

SHEET NUMBER:

EN.15

## CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NRCC-PRF-E

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

**Project Name:** AMS PC 36x40 **Date Prepared:** 2023-09-03

**A. General Information**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Project Name | AMS PC 36x40 | | | |
| 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) | 345 |
| 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 (ft$^2$) | 1440 | 15 | Total # of hotel/motel rooms | 0 |
| 16 | Total Unconditioned Floor Area (ft$^2$) | 0 | 17 | Fuel Type | None |
| 18 | Nonresidential Conditioned Floor Area | 1440 | 19 | Total # of Stories (Habitable Above Grade) | 1 |
| 20 | Residential Conditioned Floor Area | 0 | | | |

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## CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NRCC-PRF-E

**Nonresidential Performance Compliance Method** (Page 2 of 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 | 235.76 | 235.76 | 14.33 |
| Proposed Design | 201.56 | 201.56 | 11.96 |
| **Compliance Margins** | **34.2** | **34.2** | **2.37** |
| | **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 | 9.89 | 13.03 | -3.14 |
| Space Cooling | 141.23 | 163.22 | -21.99 |
| Indoor Fans | 61.75 | 14 | 47.75 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 0 | 0 | 0 |
| Indoor Lighting | 22.89 | 11.31 | 11.58 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **235.76** | **201.56** | **34.2 (14.5%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **235.76** | **201.56** | **34.2 (14.5%)** |

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

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## CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NRCC-PRF-E

**Nonresidential Performance Compliance Method** (Page 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 | 66.69 | 66.69 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **302.45** | **268.25** | **34.2 (11.3%)** |

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

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## 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 | 1.41 | 1.87 | -0.46 |
| Space Cooling | 6.56 | 7.8 | -1.24 |
| Indoor Fans | 4.23 | 1.1 | 3.13 |
| Heat Rejection | 0 | 0 | 0 |
| Pumps & Misc. | 0 | 0 | 0 |
| Domestic Hot Water | 0 | 0 | 0 |
| Indoor Lighting | 2.13 | 1.19 | 0.94 |
| Flexibility | --- | --- | --- |
| **EFFICIENCY COMPLIANCE TOTAL** | **14.33** | **11.96** | **2.37 (16.5%)** |
| Photovoltaics | --- | --- | --- |
| Batteries | --- | --- | --- |
| **TOTAL COMPLIANCE** | **14.33** | **11.96** | **2.37 (16.5%)** |

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

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## CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

NRCC-PRF-E

**Nonresidential Performance Compliance Method** (Page 7 of 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 | 4.92 | 4.92 | --- |
| Process | --- | --- | --- |
| Other Ltg | --- | --- | --- |
| Process Motors | --- | --- | --- |
| **TOTAL ( TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)** | **19.25** | **16.88** | **2.37 (12.3%)** |

[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

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## 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 | 0.4 | 0.6 | -0.2 | --- | --- | --- |
| Space Cooling | 6.1 | 7.2 | -1.1 | --- | --- | --- |
| Indoor Fans | 2.7 | 0.6 | 2.1 | --- | --- | --- |
| Heat Rejection | --- | --- | --- | --- | --- | --- |
| Pumps & Misc. | --- | --- | --- | --- | --- | --- |
| Domestic Hot Water | --- | --- | --- | --- | --- | --- |
| Indoor Lighting | 1.2 | 0.5 | 0.7 | --- | --- | --- |
| Flexibility | --- | --- | --- | --- | --- | --- |
| **EFFICIENCY TOTAL** | **10.4** | **8.9** | **1.5** | **0** | **0** | **0** |
| Photovoltaics | --- | --- | --- | --- | --- | --- |
| Batteries | --- | --- | --- | --- | --- | --- |
| **ENERGY USE SUBTOTAL** | **10.4** | **8.9** | **1.5** | **0** | **0** | **0** |
| Receptacle | 3.8 | 3.8 | 0 | --- | --- | --- |
| Process | --- | --- | --- | --- | --- | --- |
| Other Ltg | --- | --- | --- | --- | --- | --- |
| Process Motors | --- | --- | --- | --- | --- | --- |
| **ENERGY USE TOTAL** | **14.2** | **12.7** | **1.5** | **0** | **0** | **0** |

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## 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] | 33.65 | 30.09 | 3.56 | 10.58 |
| NET EUI[1] | 33.65 | 30.09 | 3.56 | 10.58 |

[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] | 360 | 160 | 44.44 |
| East-Facing[2] | 400 | 0 | 0 |
| South-Facing[3] | 360 | 80 | 22.22 |
| West-Facing[4] | 400 | 0 | 0 |
| **Total** | **1520** | **240** | **15.79** |
| Roof | 1440 | 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),*

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## 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 | 1,440 | Metal | 19 | N/A | 5 | U-factor | 0.0528 | Metal Standing Seam - 1/16 in.<br>Compliance Insulation R5.00<br>Plywood - 1/2 in.<br>Roof Structure<br>Air - Roof - 3 1/2 in.<br>Acoustic Tile - 3/8 in. | N |
| Ext Wall | Exterior Wall | 1,520 | Metal | 13 | N/A | 5 | U-factor | 0.0978 | Wood siding - 1/2 in.<br>Vapor permeable felt - 1/8 in.<br>Compliance Insulation R5.00<br>R-13 in Metal Studs<br>Gypsum Board - 1/2 in. | N |
| Floor over Crawlspace | Exterior Floor | 1,440 | N/A | 0 | N/A | N/A | U-factor | 0.104 | Vented Crawl Space<br>Concrete - 140 lb/ft3 - 2 in.<br>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 | 42 | 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<br>Fixed window<br>N/A | NFRC | Manufactured | 240 | 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 | Package SZ VAV Heat Pump Air System | 1 | 44.8 | 3.41 | COP<br>HSPF | 3.55<br>8 | 47.5 | EER<br>SEER | 11<br>14 | 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 | 547.2 | 1,600 | 0.7 | InH2O | VSD | 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 | Package SZ VAV Heat Pump Air System | No | Zone(s) With CO2 Sensor Vent. Control |

*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) | 36 | 547.2 | 0 | 1440 | DCV |

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ **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: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:
ENERGY CALCULATIONS
36'x40' BUILDING
GROUP 'D'

SHEET NUMBER:
EN.16

**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 | Variable Air Volume No Reheat Box | 1 | N/A | N/A | 1,600 | 650 | 0.41 | 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 | 1440 | 540 | 0 | 0 | 0 |
| **Building Totals:** | **1440** | **540** | **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) | 12 | 540 |

[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) |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | 2x4 LED | 45 | 6 | 270 | 0 |
| Classroom 101 | Classroom, Lecture, or Training Vocational | N/A | N/A | 2x4 LED | 45 | 6 | 270 | 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 Skylit Zn | Classroom, Lecture, or Training Vocational | Required | Required | Required | Required | NA |

**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 |

---

**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-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to ) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints. |
| Mechanical | NRCA-MCH-07-A Supply Fan Variable Flow Controls |
| 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: 2023.09.07 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: 09/05/23 | |
| City/State/Zip: Manteca, CA 95336 | License #: C12631 | |
| Phone: 209.825.1921 | Title: Architect | Scope: Envelope |
| Responsible Designer Name: Randall P Cavannagh | Responsible Designer Signature: | |
| Company: American Modular Systems \| Gen7 Schools | | |
| Address: 787 Spreckels Avenue | Date Signed: 09/05/23 | |
| City/State/Zip: Manteca, CA 95336 | License #: C12631 | |
| Phone: 209.825.1921 | Title: Architect | Scope: Mechanical |

---

| | | |
|---|---|---|
| Responsible Designer Name: Randall P Cavannagh | Responsible Designer Signature: | |
| Company: American Modular Systems \| Gen7 Schools | | |
| Address: 787 Spreckels Avenue | Date Signed: 09/05/23 | |
| City/State/Zip: Manteca, CA 95336 | License #: C12631 | |
| Phone: 209.825.1921 | Title: Architect | Scope: Lighting |

---

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
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PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)

FORM

SITE SPECIFIC PROJECT NAME

.
.
.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122050 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 12/11/2023

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

MANUFACTURER PROFESSIONAL OF RECORD ON PC

RANDALL PATRICK CAVANNAGH
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: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

ENERGY CALCULATIONS
36'x40' BUILDING
GROUP 'D'

SHEET NUMBER:

EN.17

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 (ft²) | 0 |
| 02 | Climate Zone | 14 | 05 | Total Unconditioned Floor Area (ft²) | 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 (ft²) | Calculation Method | Area (ft²) |
| ☒ 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 (ft²)** | | | 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<br>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.*

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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 | ☐ | ☐ |

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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/Skylit 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/ft²) | Area (ft²) | 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 (ft²) | 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.*

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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

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### 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))

*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.*

| 01 | | | | |
|---|---|---|---|---|
| | "Use it or lose it" Allowance (select all that apply) (select all that apply) | | | |
| ☐ General Hardscape Allowance Table I (below) | ☒ Per Application Table J | ☐ Sales Frontage Table K | ☐ Ornamental Table L | ☐ Per Specific Area Table M |

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STATE OF CALIFORNIA

## Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

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|---|---|---|---|
| **CERTIFICATE OF COMPLIANCE** | | | **NRCC-LTO-E** |
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| | | **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 |
|---|---|---|---|---|---|---|---|---|---|
| | | CALCULATED ALLOWANCE (Watts) | | | DESIGN WATTS | | | | |
| Area Description | Application per Table 140.7-B[1] | # of Locations | Allowance per Location[2] | Extra Allowance (Watts) | Luminaire Name or Item Tag | Watts per Luminaire | # of Luminaires | Design Watts | Additional Allowance (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.*

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)

FORM

SITE SPECIFIC PROJECT NAME

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ 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 | |

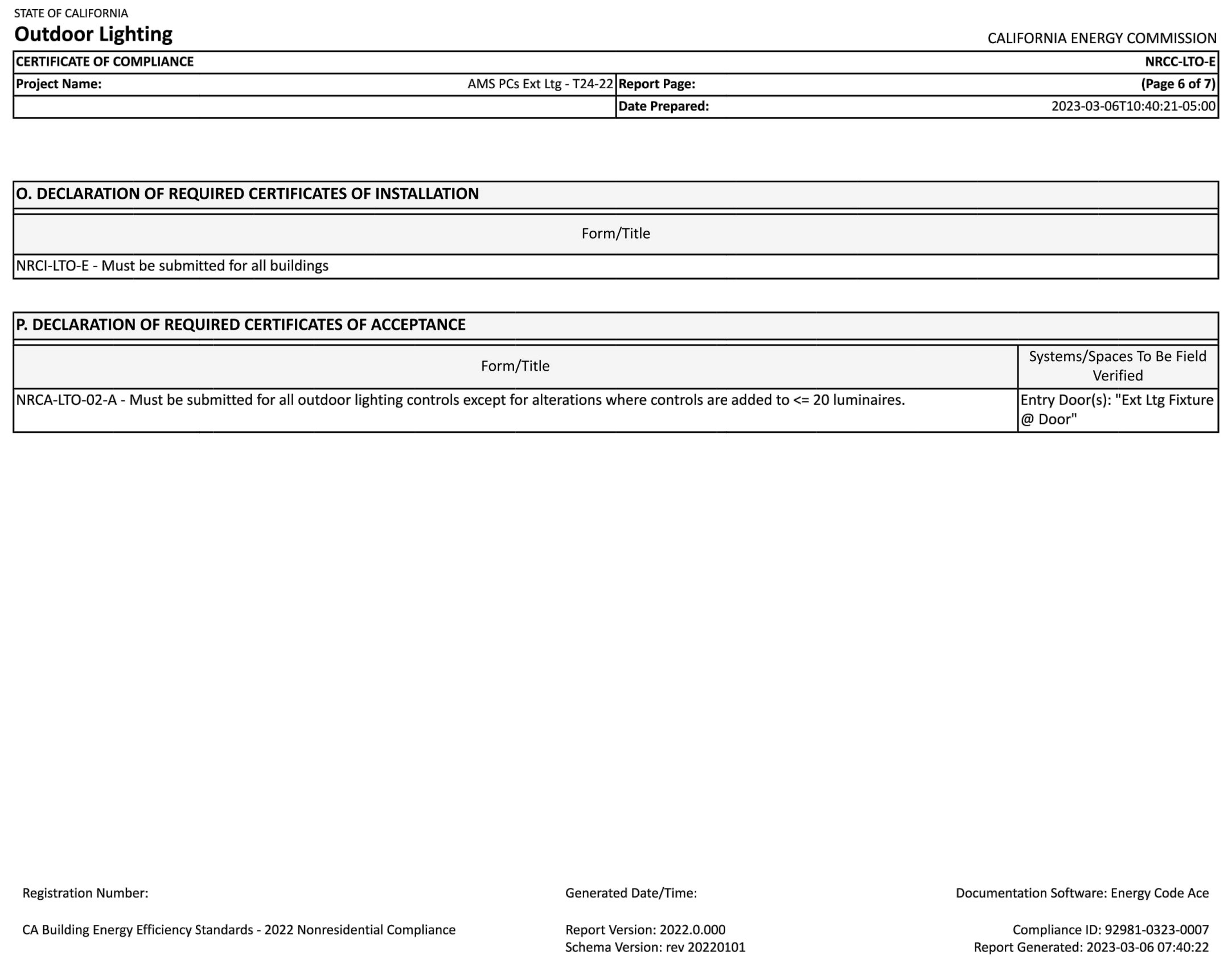
| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

ENERGY CALCULATIONS
SUPPLEMENTAL SHEET

SHEET NUMBER:

EN.74



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

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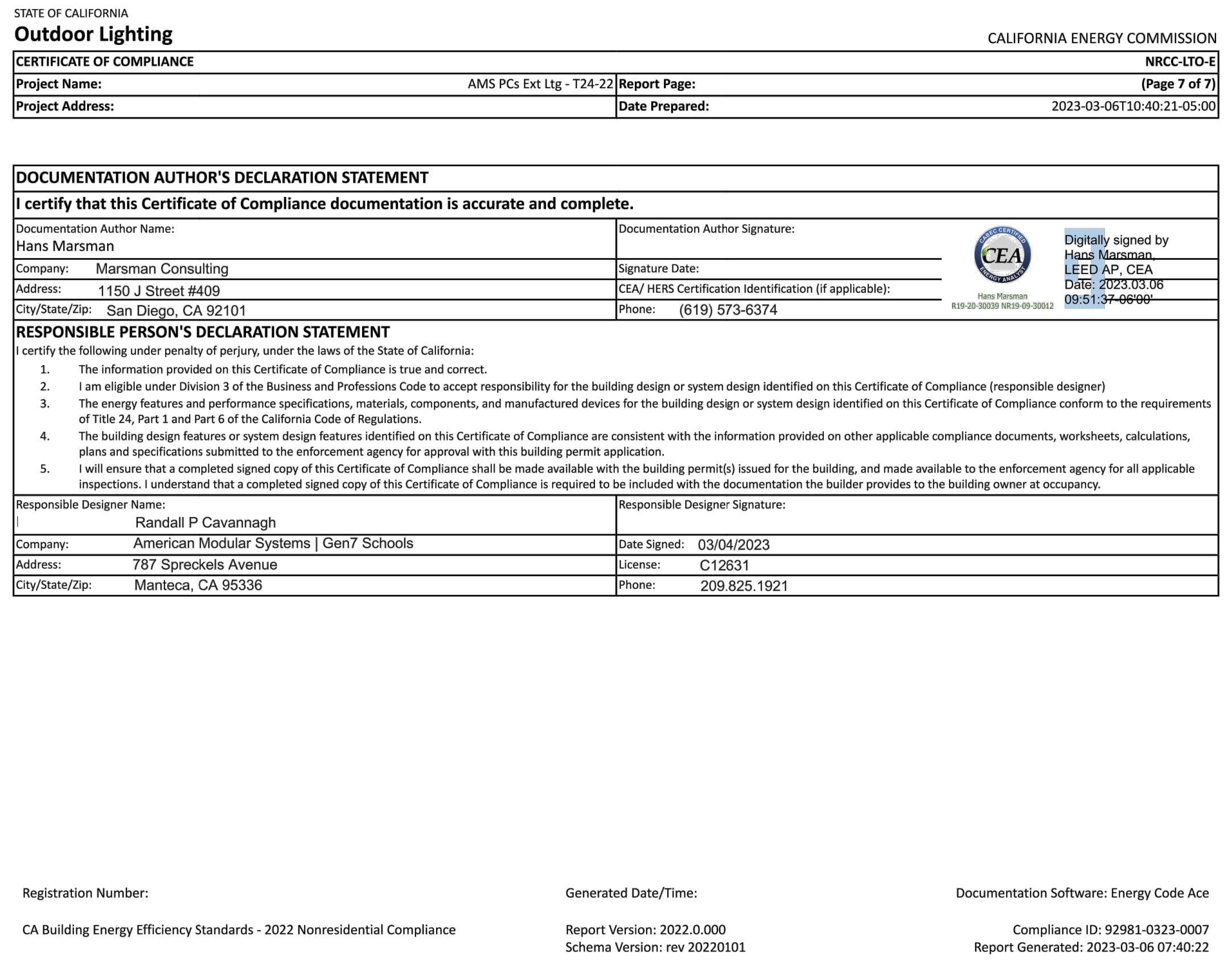

STATE OF CALIFORNIA

## 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: Digitally signed by Hans Marsman, LEED AP, CEA Date: 2023.03.06 09:51:37-06'00' |
| 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: 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

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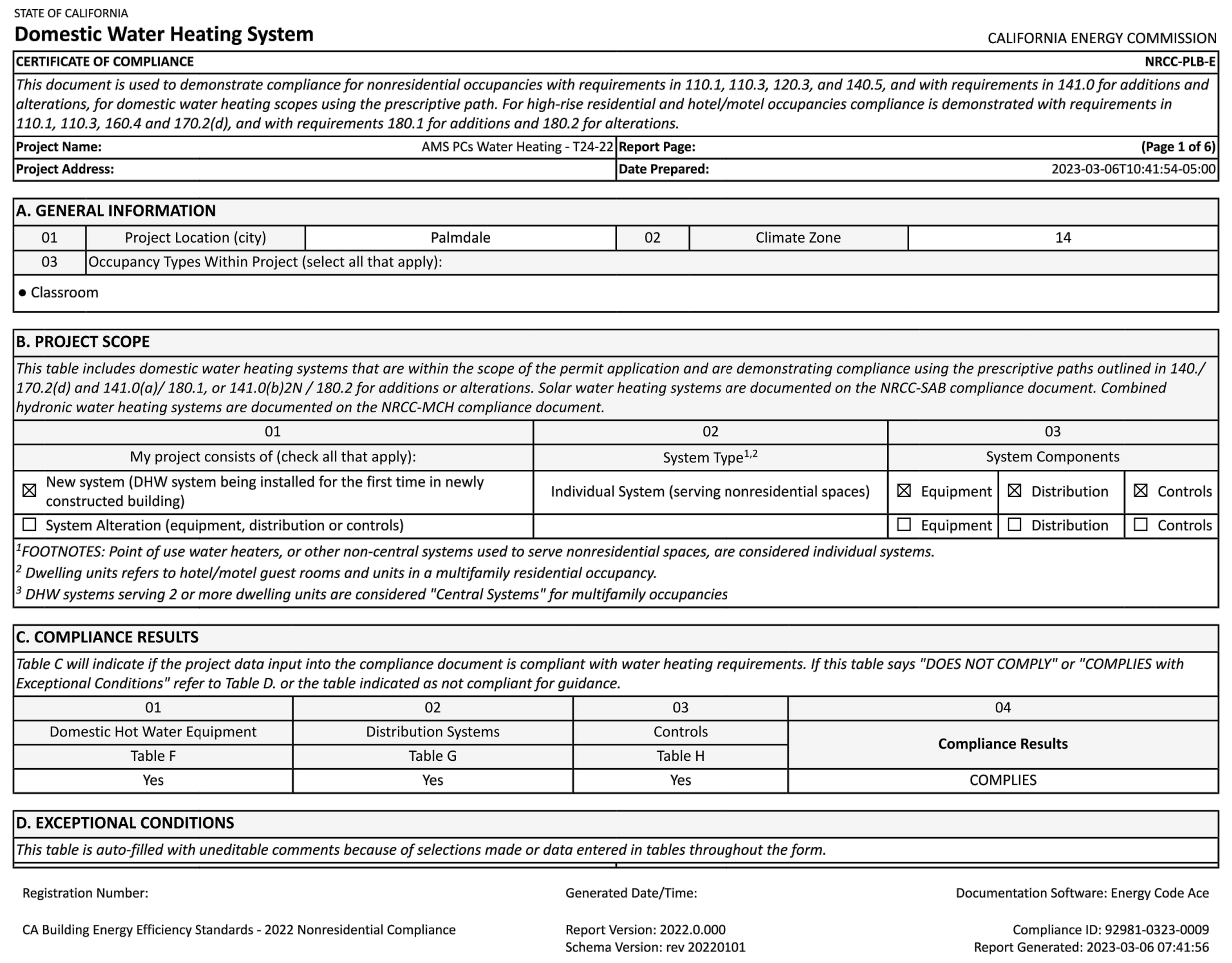

STATE OF CALIFORNIA

## 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

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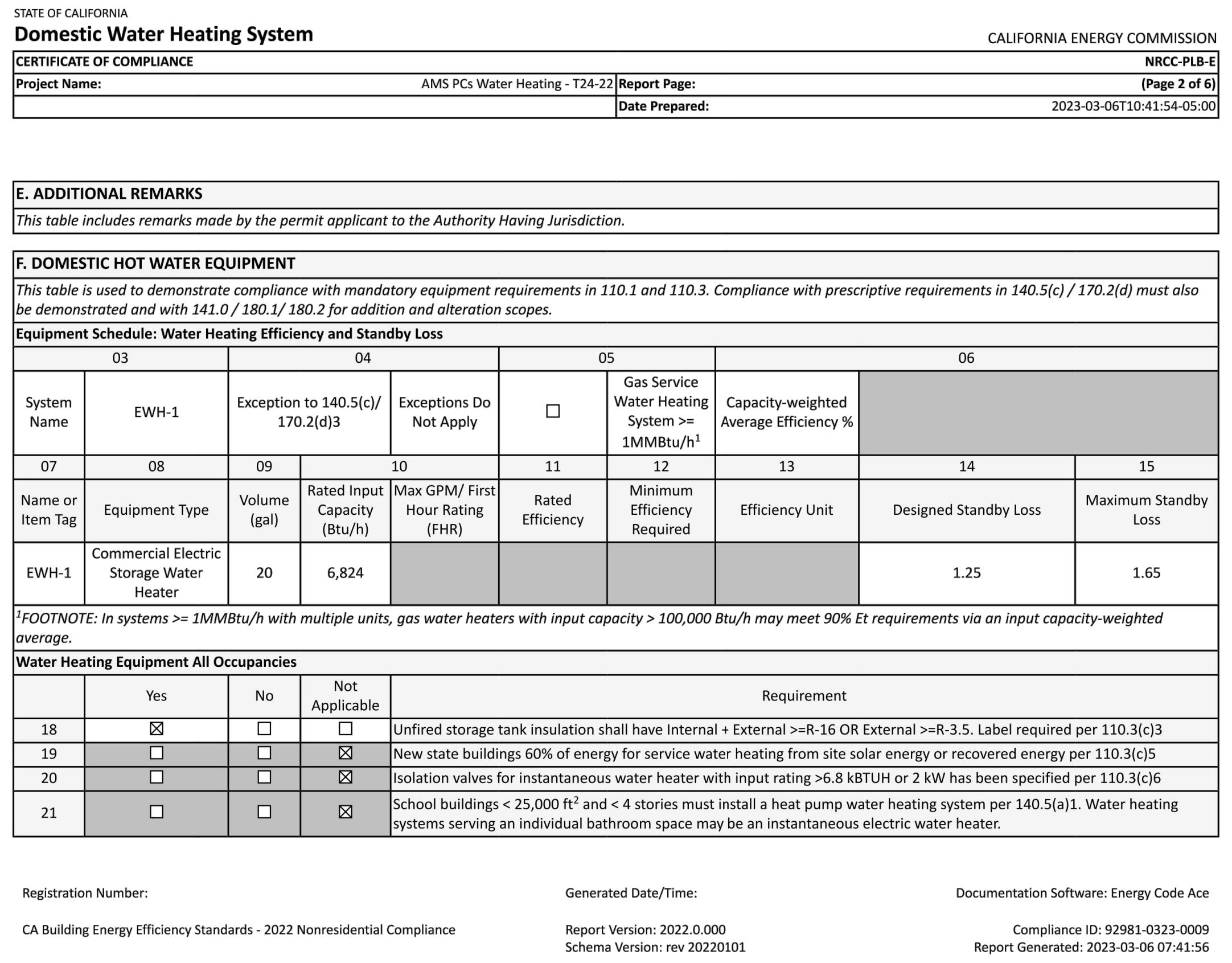

STATE OF CALIFORNIA

## Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

| | | | |
|---|---|---|---|
| **CERTIFICATE OF COMPLIANCE** | | | **NRCC-PLB-E** |
| **Project Name:** | AMS PCs Water Heating - T24-22 | **Report Page:** | **(Page 2 of 6)** |
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**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 ft² 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

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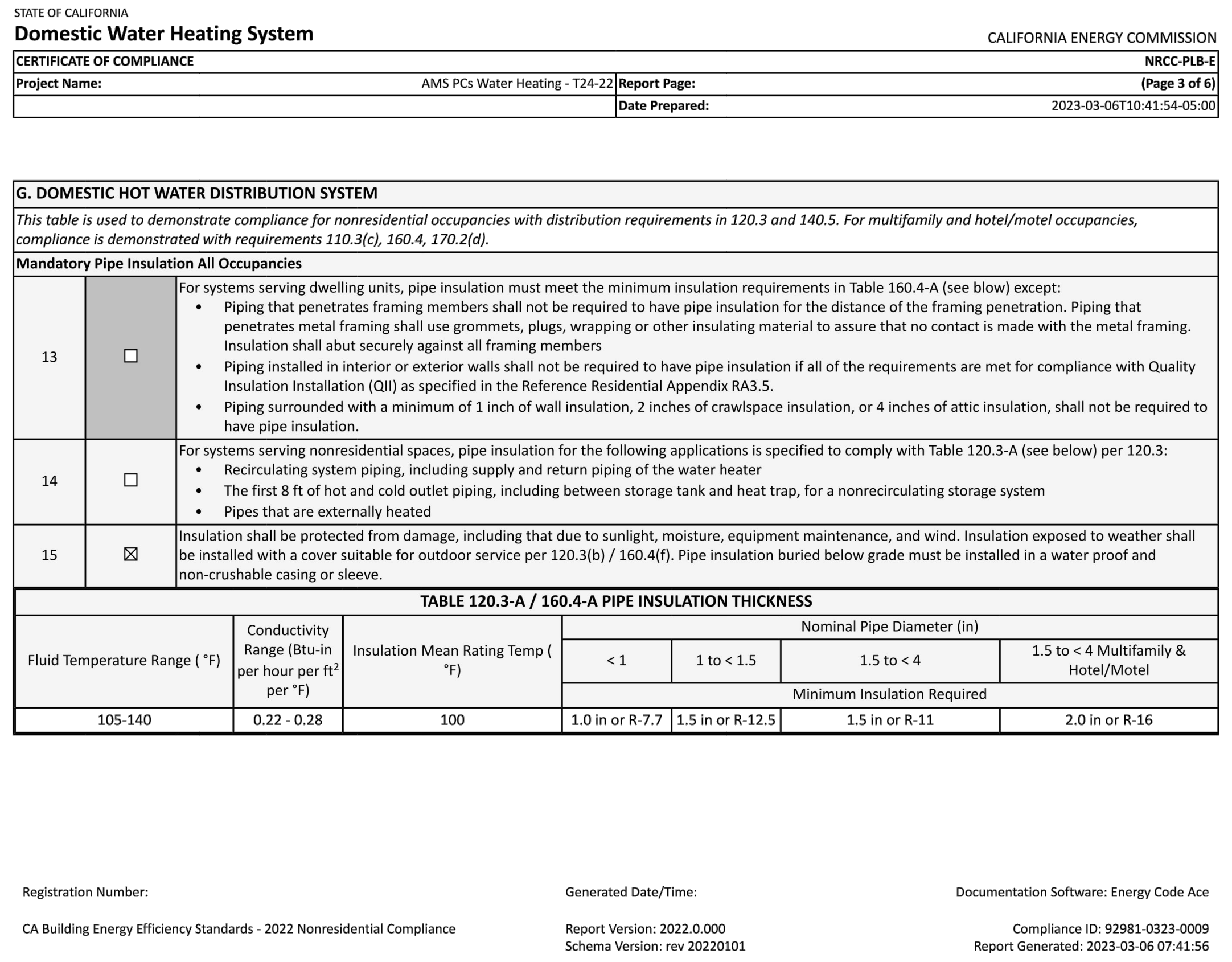

STATE OF CALIFORNIA

## Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

| | | | |
|---|---|---|---|
| **CERTIFICATE OF COMPLIANCE** | | | **NRCC-PLB-E** |
| **Project Name:** | AMS PCs Water Heating - T24-22 | **Report Page:** | **(Page 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:<br>• 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<br>• 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.<br>• 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:<br>• Recirculating system piping, including supply and return piping of the water heater<br>• The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system<br>• 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 ft² 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

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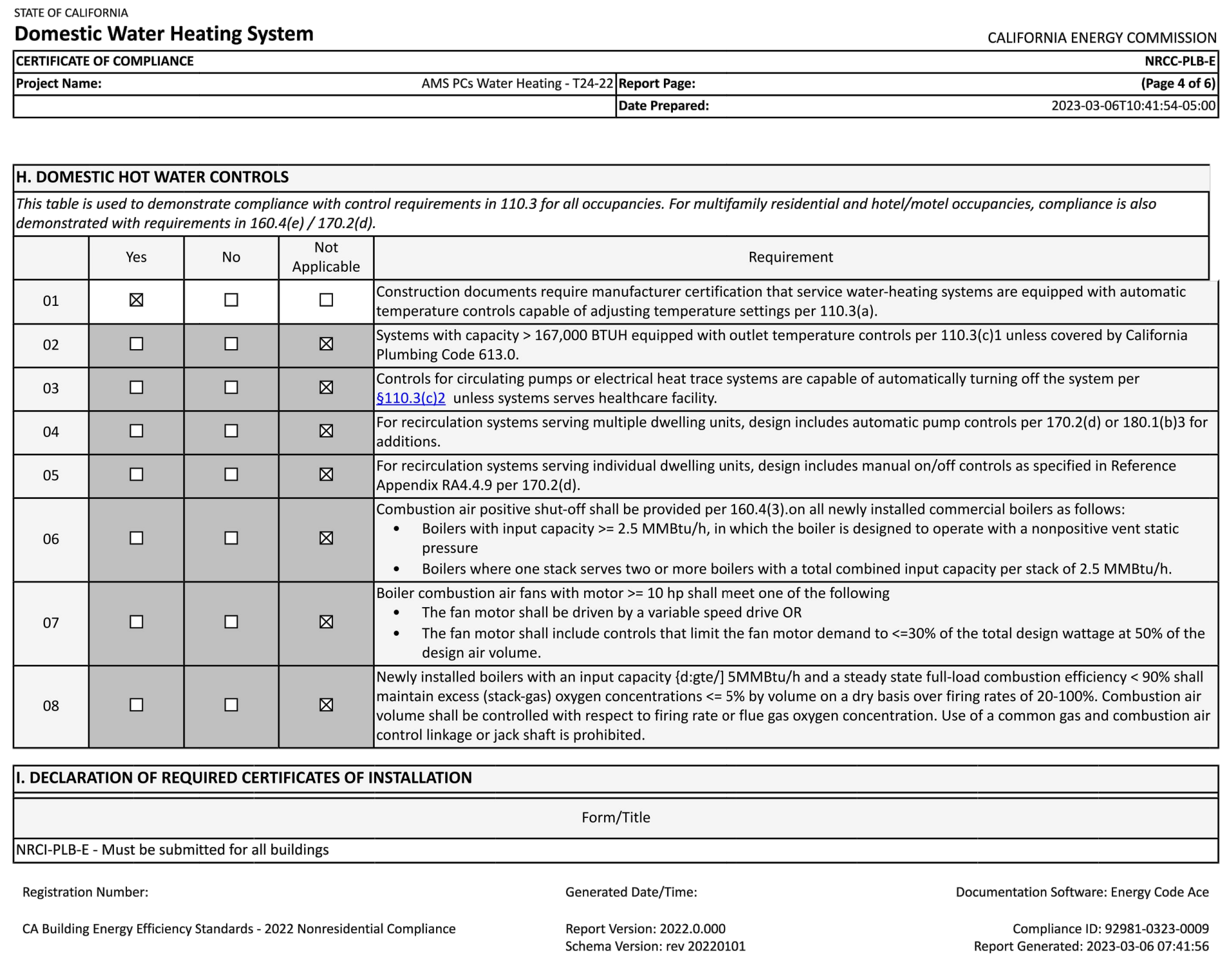

STATE OF CALIFORNIA

## 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:<br>• Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure<br>• 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<br>• The fan motor shall be driven by a variable speed drive OR<br>• 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 | Schema Version: rev 20220101 | Compliance ID: 92981-0323-0009 | Report Generated: 2023-03-06 07:41:56

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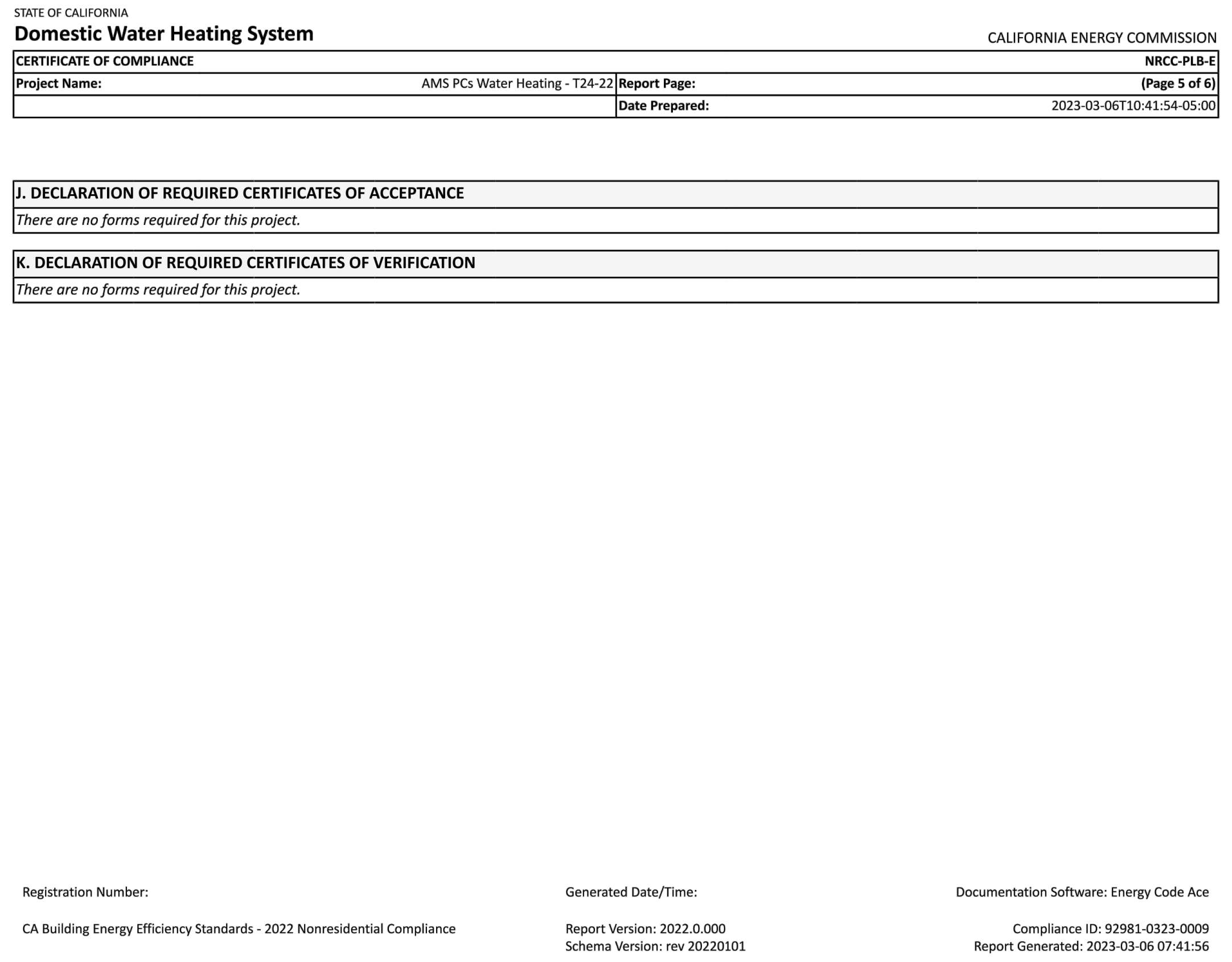

STATE OF CALIFORNIA

## Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

| | | | |
|---|---|---|---|
| **CERTIFICATE OF COMPLIANCE** | | | **NRCC-PLB-E** |
| **Project Name:** | AMS PCs Water Heating - T24-22 | **Report Page:** | **(Page 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 | Schema Version: rev 20220101 | Compliance ID: 92981-0323-0009 | Report Generated: 2023-03-06 07:41:56

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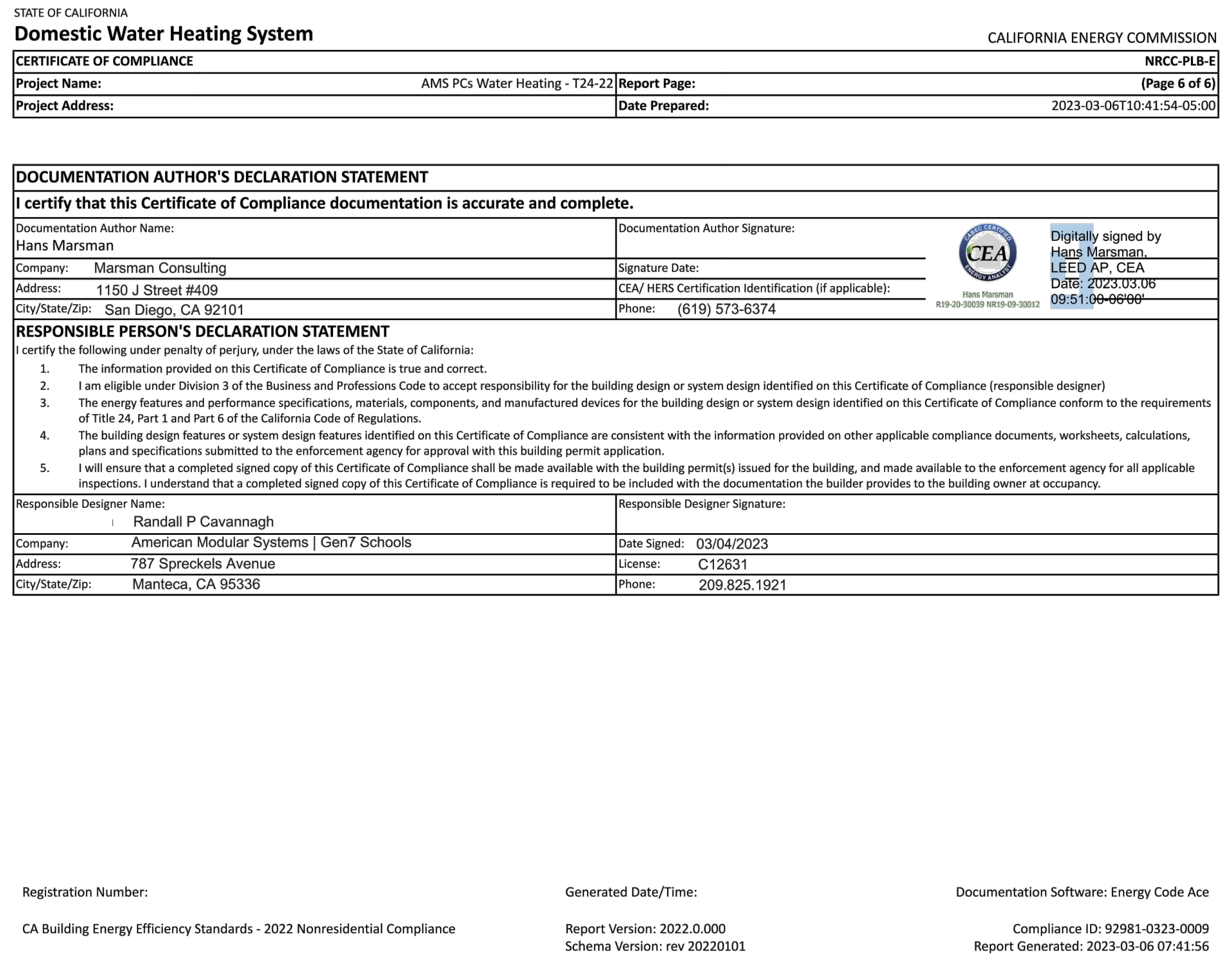

STATE OF CALIFORNIA

## 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: Digitally signed by Hans Marsman, LEED AP, CEA Date: 2023.03.06 09:51:00-06'00' |
| 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: 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: 92981-0323-0009 | Report Generated: 2023-03-06 07:41:56

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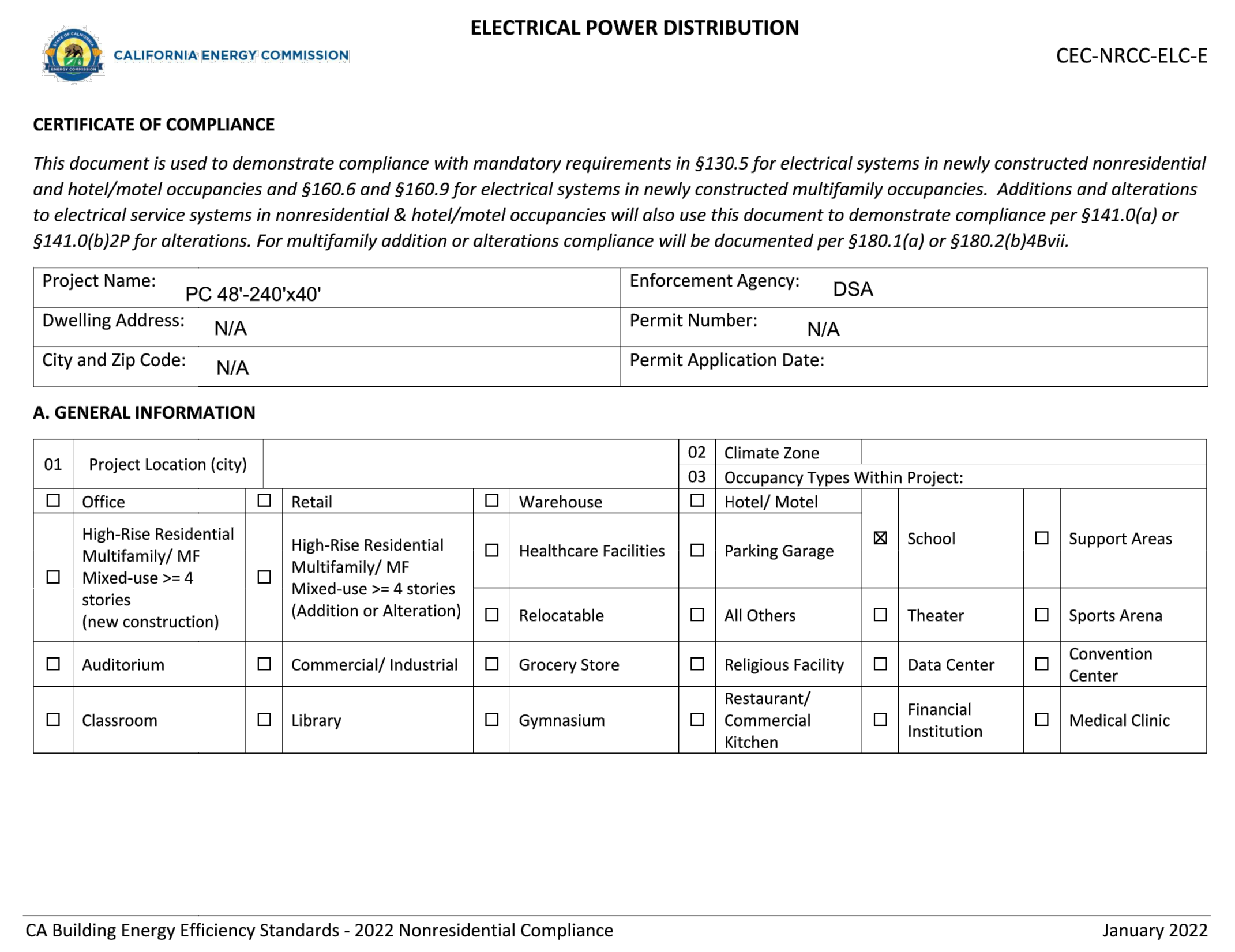

CALIFORNIA ENERGY COMMISSION

## 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

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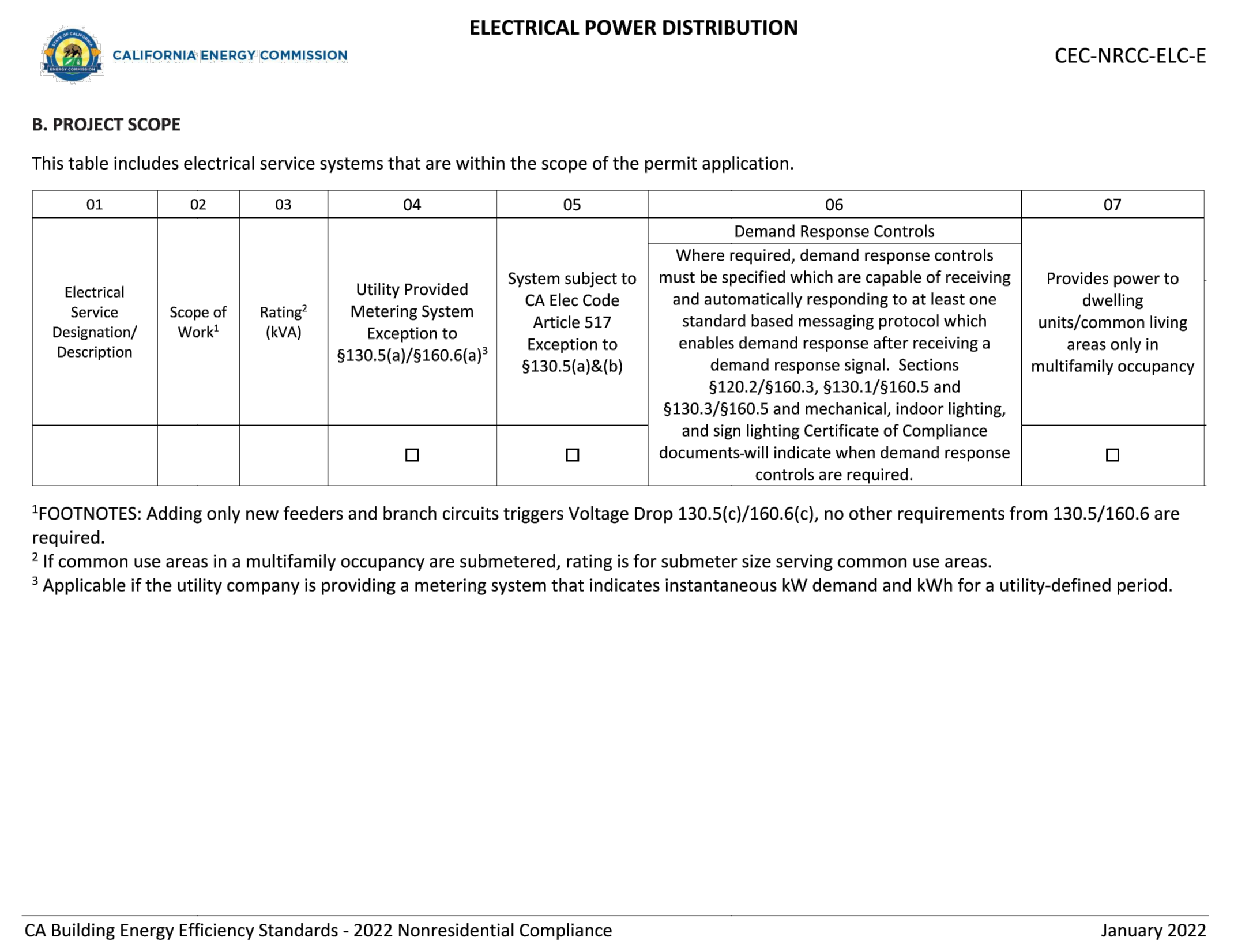

CALIFORNIA ENERGY COMMISSION

## 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<br>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

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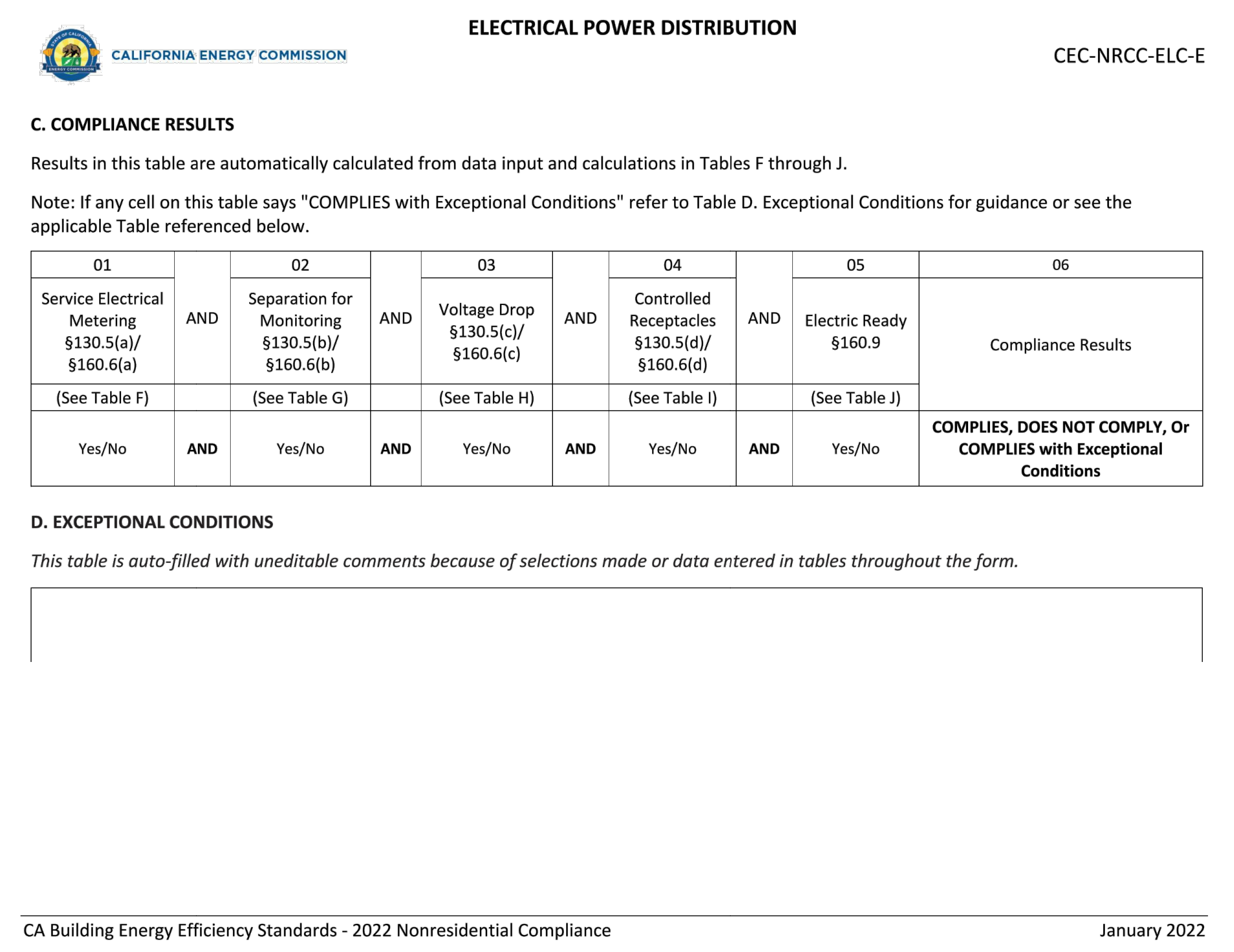

CALIFORNIA ENERGY COMMISSION

## 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

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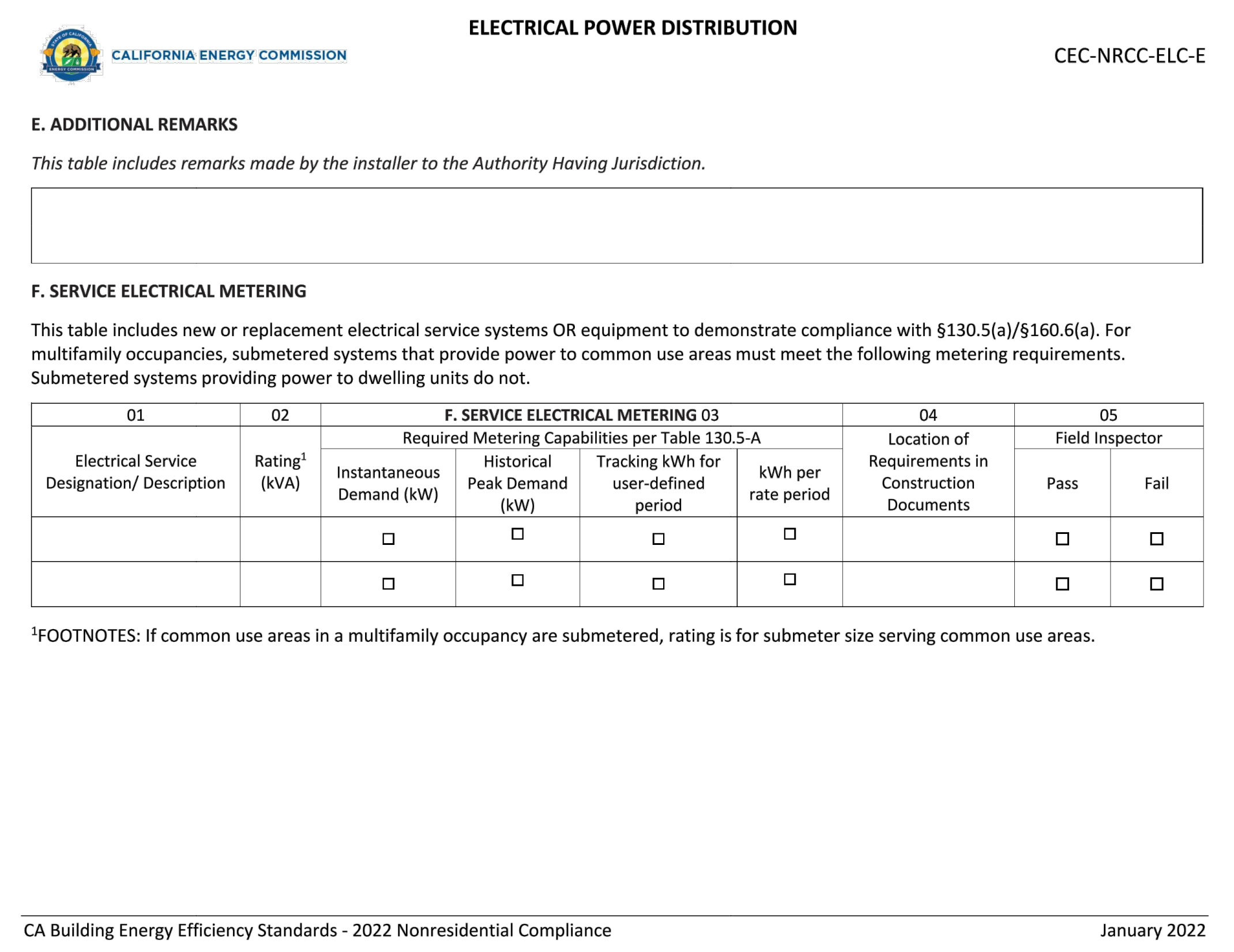

CALIFORNIA ENERGY COMMISSION

## 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: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

**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

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)

FORM

SITE SPECIFIC PROJECT NAME

.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ **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: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

ENERGY CALCULATIONS
SUPPLEMENTAL SHEET

SHEET NUMBER:

EN.75

### 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 | |
| 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 | Field Inspector | |
| | | | | 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 | |
|---|---|---|---|---|---|---|
| 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 | Field Inspector | |
| | | | | | 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 | |
|---|---|---|---|---|---|---|---|
| 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 | Field Inspector | |
| | | | | | | 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:<br>- 24 amps at 208/240 volts per clothes dryer;<br>- 2.6 kVA for each 10,000 Btu per hour of rated gas input or gas pipe capacity; or<br>- 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: |
| 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.

---

AMS 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 P. Cavanagh

RANDALL PATRICK CAVANAGH
No. C12631
Ren. 03-31-25

---

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME

.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ **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 | |

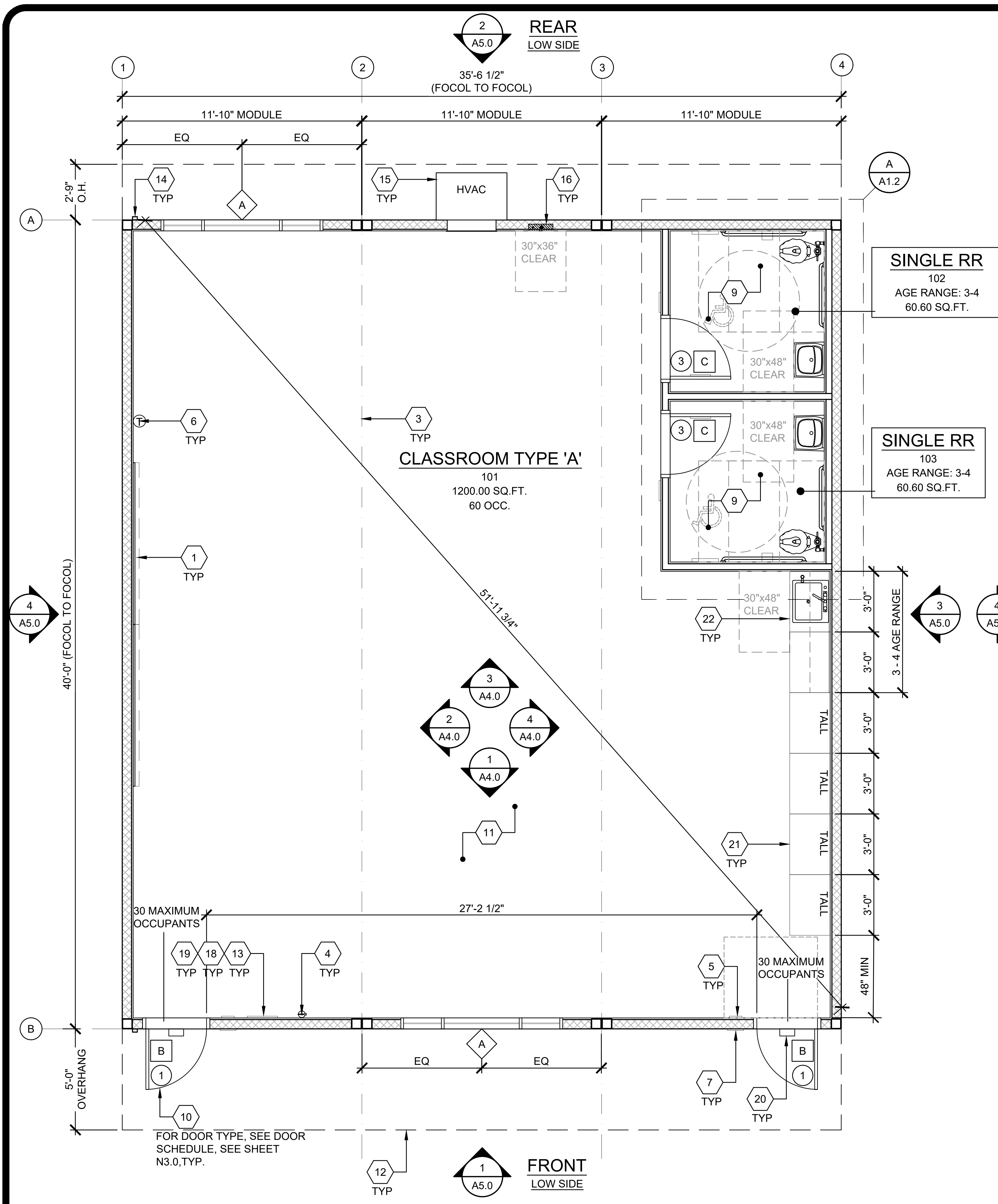
| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

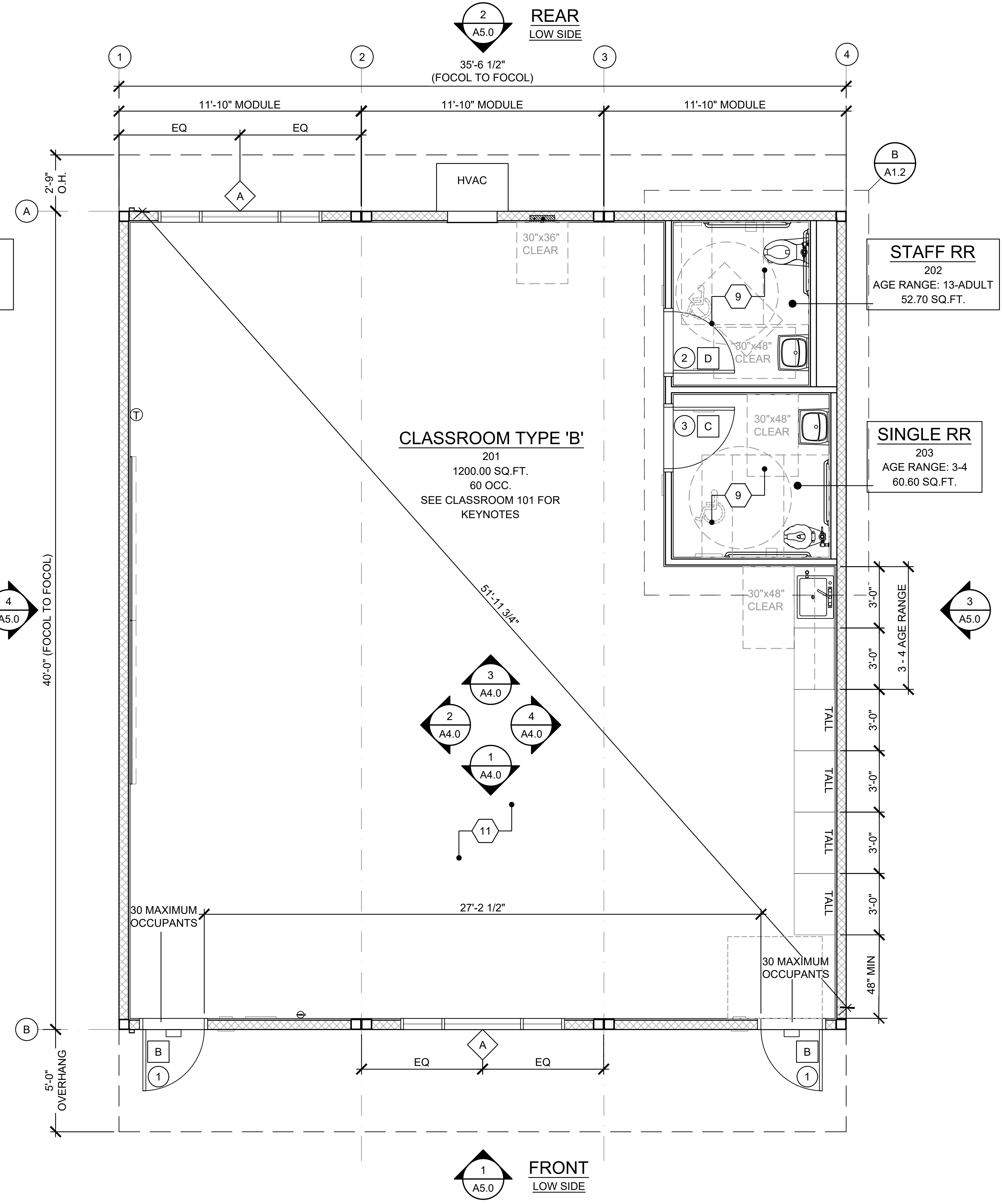
ENERGY CALCULATIONS
SUPPLEMENTAL SHEET

SHEET NUMBER:

EN.76



SERIAL NUMBERS:
26-101-001
26-101-002



SERIAL NUMBERS:
26-101-003
26-101-004
26-101-005
26-101-006
26-101-007
26-101-008
26-101-009
26-101-010
26-101-011

## FLOOR PLAN

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

| | |
|---|---|
| 1 | (2) 8'x4' MARKER BOARDS - SEE SHEET A4.0 |
| 2 | NOT USED |
| 3 | TYP. MOD LINE |
| 4 | FIRE EXTINGUISHER - TOP OF HANDLE @ +48" A.F.F.<br>4" MAX PROTRUSION FROM WALL IF BOTTOM OF FIRE EXTINGUISHER IS ABOVE 27" A.F.F. |
| 5 | TACTILE EXIT SIGN PER DETAIL 10/N4.0 - "EXIT RAMP DOWN" SIGN WHEN RAMP IS BEING USED (BY OTHERS) |
| 6 | THERMOSTAT - TOP @ 46 A.F.F. - SEE ELECTRICAL SHEETS |
| 7 | ROOM SIGNAGE AND I.S.A. PER DETAILS 5&9/N4.0 (BY OTHERS) |
| 8 | NOT USED |
| 9 | SHEET VINYL FLOORING |
| 10 | EGRESS DOOR |
| 11 | CARPET FLOORING (BY OTHERS) |
| 12 | OVERHANG |
| 13 | OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS) |
| 14 | DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.O.N.) |
| 15 | HVAC - SEE NOTES ON MECHANICAL AND EXTERIOR ELEVATION SHEETS |
| 16 | ELECTRICAL PANEL |
| 17 | NOT USED |
| 18 | FLOOR LIVE LOAD SIGN PER 2022 CBC SECTION 106.1 PROVIDED BY OTHERS.<br>*(FLOOR LIVE LOAD SIGN IS REQUIRED ONLY FOR COMMERCIAL OR INSTITUTIONAL BUILDINGS DESIGNED WITH LIVE LOADS EXCEEDING 50 PSF)* |
| 19 | ASSISTIVE LISTENING (AL) SIGN POSTED IN PROMINENT PLACE AT OR NEAR THE ENTRANCE PER 17/N4.0. |
| 20 | EXTERIOR LIGHT - SEE ELECTRICAL |
| 21 | CASEWORK - AMS TO PROVIDE BLOCKING AS REQUIRED PER A7.1 |
| 22 | CASEWORK w/SINK & BUBBLER - AMS TO PROVIDE BLOCKING AS REQUIRED PER A7.1 |

## KEY NOTES

| | |
|---|---|
| (NO HATCH) ▭ | 2X4 WALLS |
| ▨ | 2X6 WALLS |
| ⬡ X | = KEY NOTE - SEE KEY NOTES ABOVE |
| ○ X | = DOOR TYPE - SEE SCHEDULE, SHEET N3.0 |
| ☐ X | = DOOR HARDWARE - SEE HARDWARE SCHEDULE, SHEET N3.0 |
| ◇ X | = WINDOW TYPE - SEE SCHEDULE, SHEET N3.0 |

## WALL & SYMBOLS LEGEND

1. ~~REFER TO SHEETS N5.0 AND N5.1 FOR POSSIBLE ADDITIONAL FLOOR PLAN CONFIGURATIONS.~~
2. ~~OPTIONAL INTERIOR WALLS MAY OCCUR THROUGHOUT THE BUILDING AS CONSTRUCTED PER SHEETS S8.1 OR S9.1. THE PC TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE BASED ON AREA.~~
3. PANIC HARDWARE COMPLYING WITH C.B.C. 1010.2.9 IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER.
4. IF OCCUPANCY LOAD EXCEEDS 50, PROVIDE A SECOND EXIT DOOR, PER CBC TABLE 1006.2.1.
5. FOR EVERY ROOM OR SPACE USED FOR ASSEMBLY OR CLASSROOM, PROVIDE AN OCCUPANT LOAD SIGN (BY OTHERS) IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT, PER C.B.C. SECTION 1004.9.
6. ALL PRIMARY EXTERIOR DOOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO OPENING, PER CALGREEN, SECTION 5.407.2.2.1.
7. PRIMARY EXTERIOR DOOR ENTRIES SHALL HAVE AT LEAST ONE OF THE FOLLOWING:
   - INSTALLED AWNING AT LEAST 4 FEET IN DEPTH (BY OTHERS).
   - OPTIONAL SIDE WALL CANOPY (4 FEET IN DEPTH) PER SHEET S5.4A.
   - ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
   - DOOR RECESSED AT LEAST 4 FEET.
   - OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION (BY OTHERS)
8. ~~WINDOW PLACEMENT & SIZE MAY VARY AS THE TITLE 24 MODEL REFLECTS THE LARGEST WINDOW OPTION. NO PC'S TOTAL WINDOW AREA MAY EXCEED THE TOTAL FENESTRATION AREA LISTED IN SECTION G1. ENVELOPE GENERAL INFORMATION OF THE TITLE 24 REPORT.~~
8. CABINETRY MAY BE INSTALLED ON ONE OR BOTH SIDES OF INTERIOR WALLS AND THE INSIDE FACE OF EXTERIOR WALLS WHEN INSTALLED PER THE DETAIL 8/A7.1.
9. ~~IF FIRE RATED WALLS ARE REQUIRED DUE TO SITE SPECIFIC REQUIREMENTS, REFER TO SHEET A8.0 FOR 1 HOUR RATED DETAILS~~

### 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.

## SHEET NOTES

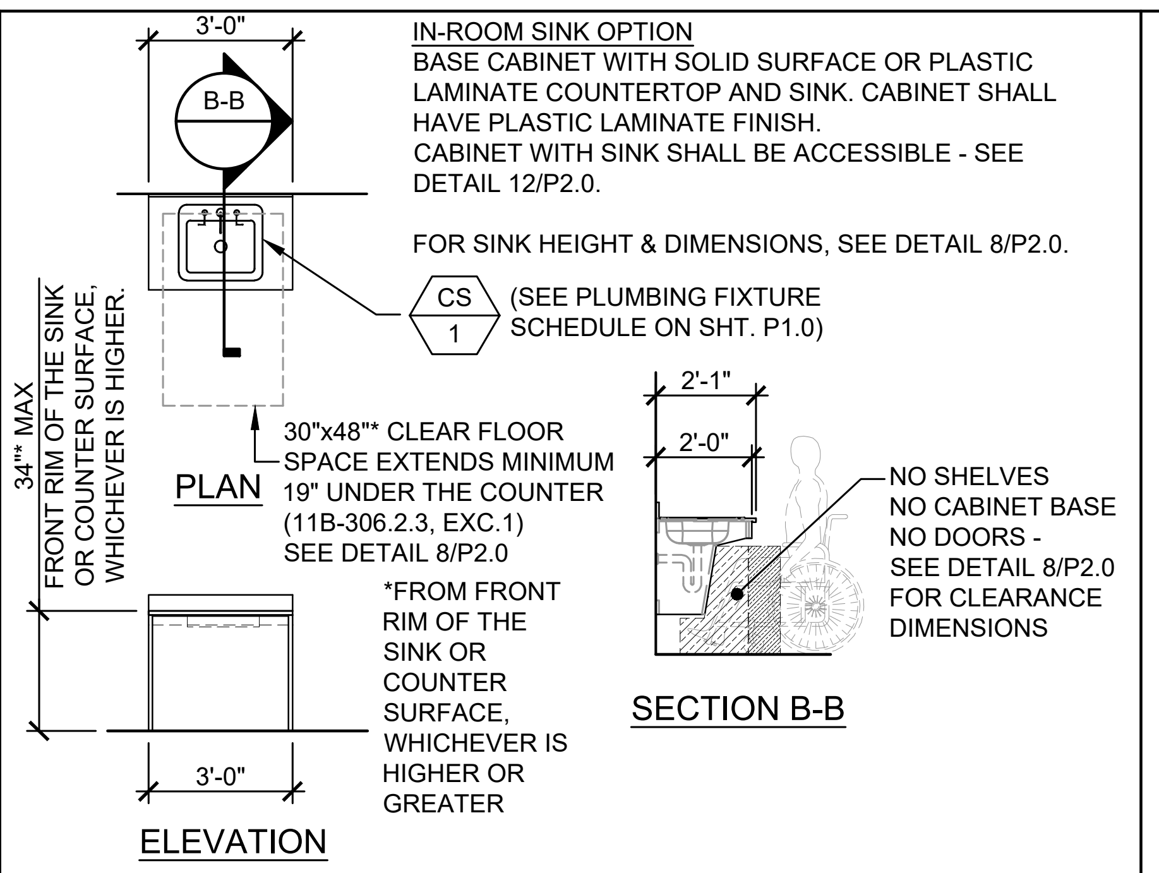
| BUILDING SIZE SCHEDULE | | | |
|---|---|---|---|
| BUILDING SIZE (FT) | TOTAL # OF 12'-0" WIDE MODULES | TOTAL # OF CENTER MODULES | OVERALL BUILDING WIDTH[1] |
| ☐ 24'x40' | 2 | 0 | 23'-8½" |
| ☒ 36'x40' | 3 | 1 | 35'-6¾" |
| ☐ 48'x40' | 4 | 2 | 47'-5" |
| ☐ 60'x40' | 5 | 3 | 59'-3¼" |
| ☐ 72'x40' | 6 | 4 | 71'-1½" |
| ☐ 84'x40' | 7 | 5 | 82'-11¾" |
| ☐ 96'x40' | 8 | 6 | 94'-10" |
| ☐ 108'x40' | 9 | 7 | 106'-8¼" |
| ☐ 120'x40' | 10 | 8 | 118'-6½" |

NOTES:

1. TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULAR CONSTRUCTION TOLERANCE PER FOUNDATION SHEET S1.1

## BUILDING SIZE SCHEDULE

16


3'-0"
B-B
34"* MAX
FRONT RIM OF THE SINK OR COUNTER SURFACE, WHICHEVER IS HIGHER.
PLAN
CS 1
2'-1"
2'-0"
3'-0"
ELEVATION
SECTION B-B

IN-ROOM SINK OPTION
BASE CABINET WITH SOLID SURFACE OR PLASTIC LAMINATE COUNTERTOP AND SINK. CABINET SHALL HAVE PLASTIC LAMINATE FINISH.
CABINET WITH SINK SHALL BE ACCESSIBLE - SEE DETAIL 12/P2.0.

FOR SINK HEIGHT & DIMENSIONS, SEE DETAIL 8/P2.0.

(SEE PLUMBING FIXTURE SCHEDULE ON SHT. P1.0)

30"x48"* CLEAR FLOOR SPACE EXTENDS MINIMUM 19" UNDER THE COUNTER (11B-306.2.3, EXC.1) SEE DETAIL 8/P2.0

*FROM FRONT RIM OF THE SINK OR COUNTER SURFACE, WHICHEVER IS HIGHER OR GREATER

NO SHELVES
NO CABINET BASE
NO DOORS -
SEE DETAIL 8/P2.0 FOR CLEARANCE DIMENSIONS

## CLASSROOM SINK

SCALE: 1/4" = 1'-0" 17

### ENERGY CONTROLS

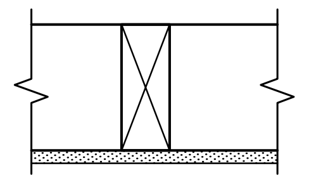
1. DEMAND RESPONSE CONTROLS:
   ONLY REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F., THEREFORE, NOT REQUIRED FOR THIS PC.
2. AUTOMATIC DAYLIGHTING CONTROLS:
   NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN ON SHEET E1.0). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1
3. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
   PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
4. SOLAR-READY ZONE REQUIREMENTS:
   REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0

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

## ENERGY NOTES

### ACOUSTIC CONTROLS

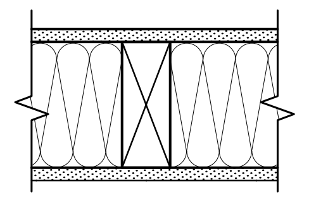
1. WHEN THE PRE-CHECK (PC) BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES SHALL COMPLY WITH THE CALGREEN CODE, SECTION 5.507.4, FOR THE SPECIFIC SITE LOCATION.
2. MINIMUM WALL ASSEMBLIES:
   WALL ASSEMBLIES SHALL BE CONSTRUCTED PER DETAIL SHEETS A5.3, A5.5, A5.7, & A8.0, WITH EITHER 2x4 WOOD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



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

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

3. IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO ANOTHER PC CLASSROOM OR RESTROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR/CEILING SHALL MEET THE MINIMUM REQUIREMENT OF A STC OF 40, PER CALGREEN CODE SECTION 507.4.3. (EXAMPLES OF QUALIFYING ASSEMBLIES SHOWN BELOW).



(2) LAYER 5/8" GYPSUM BOARD SECURED TO MIN. 2x4 STUDS @ 24" O.C. MAX. w/ 3½" THK. BATT INSULATION

STC=40
TEST REF.: AUDIO ALLOY L.L.C TEST NUMBER: OL-05-1003

4. MINIMUM WINDOW & DOOR RATINGS:
   ALL WINDOWS AND DOORS SPECIFIED ON THE SCHEDULES FOUND ON SHEET N3.0 OF THIS PACKAGE SHALL MEET A MINIMUM STC RATING OF 27.

## ACOUSTIC NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(11) 36'X40' BUILDINGS

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

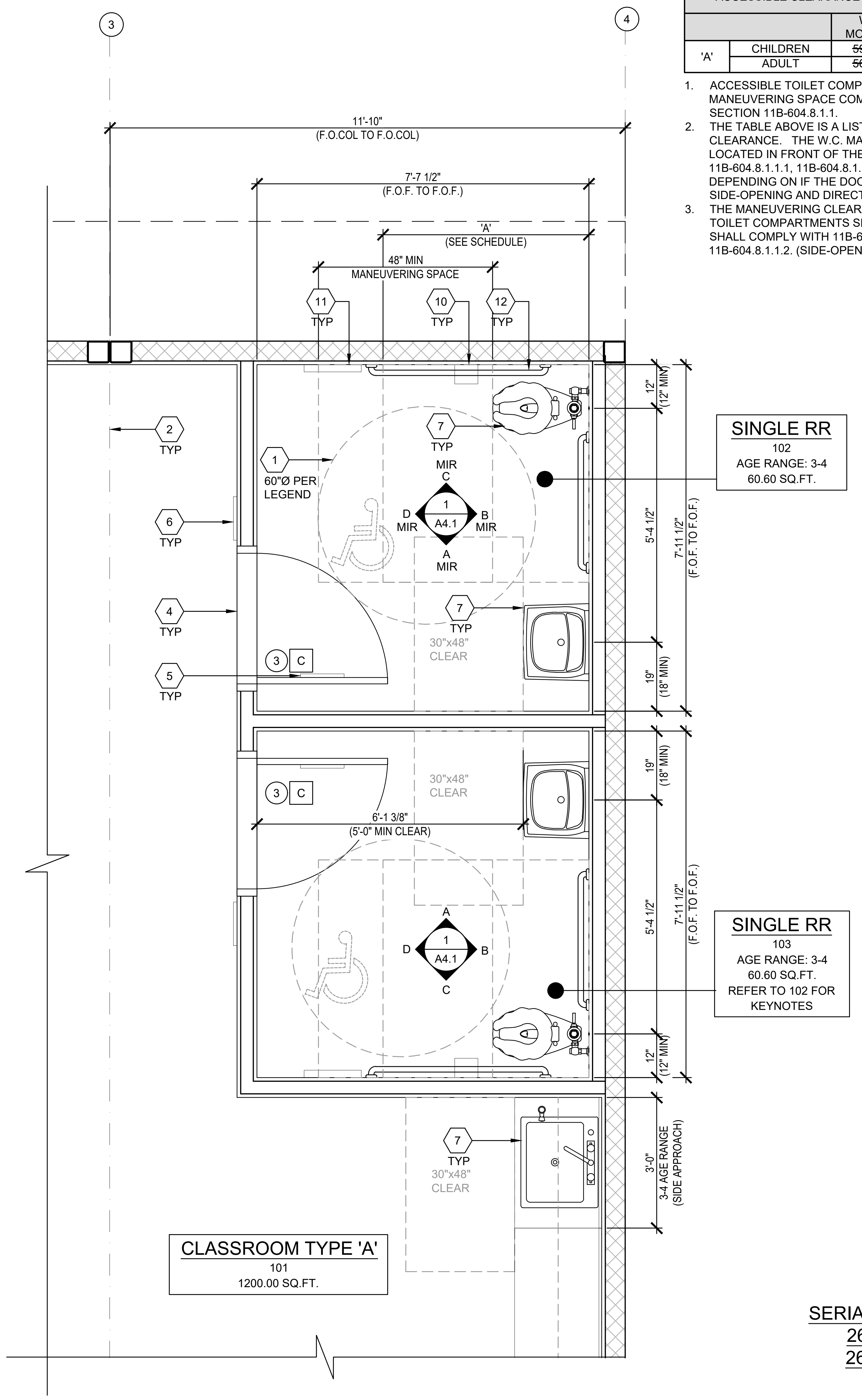
| | |
|---|---|
| DRAWN BY: | AV |
| SCALE: | AS NOTED |
| DATE: | 13/03/2026 |
| PROJECT NO: | 2003-26 |

SHEET TITLE:
FLOOR PLAN

SHEET NUMBER:
A1.0

| ACCESSIBLE CLEARANCE FOR WATER CLOSETS | | | |
|---|---|---|---|
| | | WALL MOUNTED | FLOOR MOUNTED |
| 'A' | CHILDREN | ~~59" 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)



SERIAL NUMBERS:
26-101-001
26-101-002

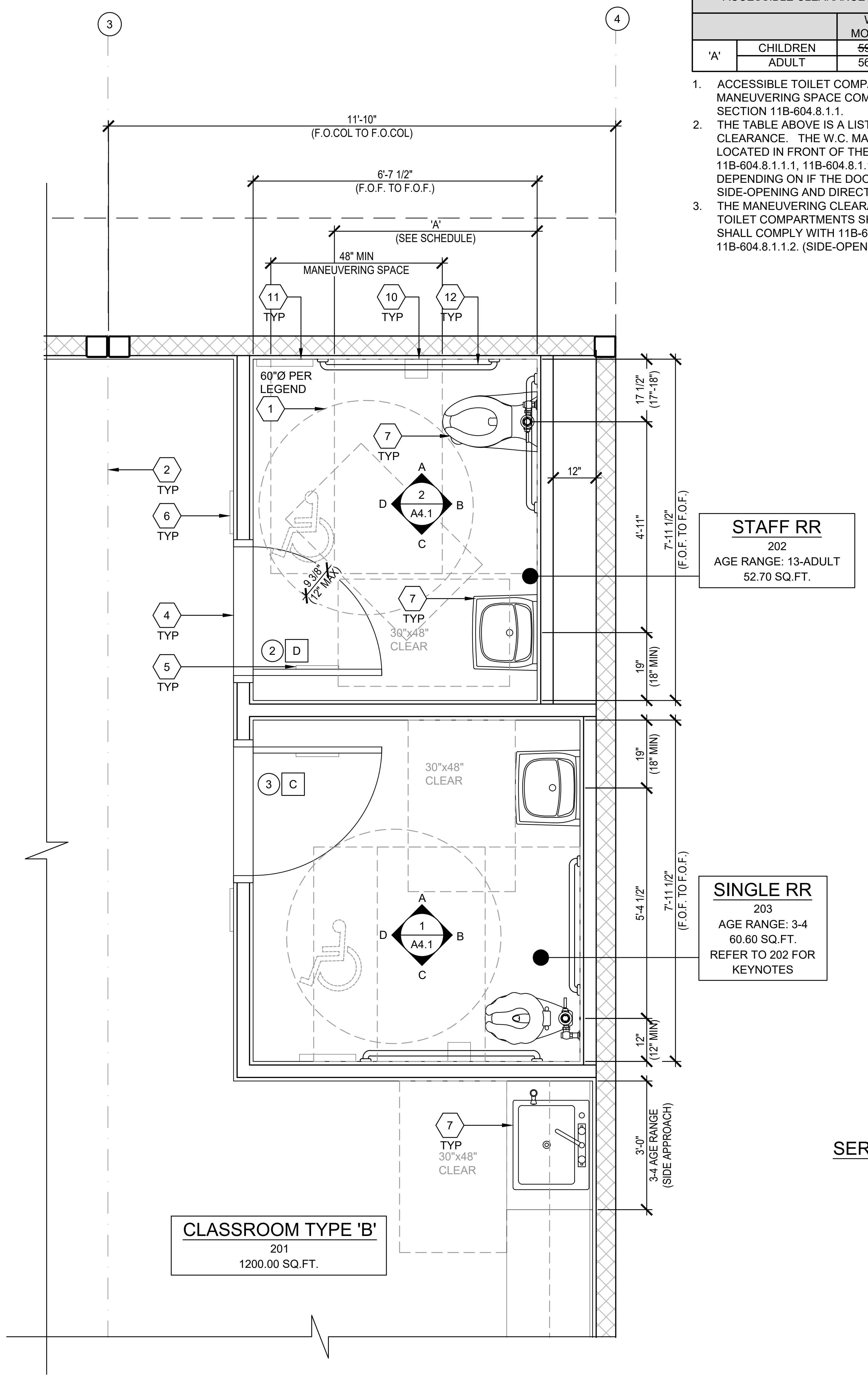
## SINGLE RESTROOM FLOOR PLAN

AGE RANGE: 3-4

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

| ACCESSIBLE CLEARANCE FOR WATER CLOSETS | | | |
|---|---|---|---|
| | | WALL MOUNTED | FLOOR MOUNTED |
| 'A' | CHILDREN | ~~59" 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)



SERIAL NUMBERS:
26-101-003
26-101-004
26-101-005
26-101-006
26-101-007
26-101-008
26-101-009
26-101-010
26-101-011

## SINGLE & STAFF RESTROOM FLOOR PLAN

AGE RANGE: 3-4 & 13-ADULT

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

| | |
|---|---|
| 1 | CLEAR FLOOR SPACE AREA PER 20/- |
| 2 | TYP. MOD LINE |
| 3 | NOT USED |
| 4 | DOOR PER SCHEDULE ON SHEET N3.0, TYP. |
| 5 | RESTROOM SIGNAGE (BY OTHERS) PER DETAILS 1-9, SHEET N4.0 |
| 6 | ROOM AND ISA SIGNAGE (BY OTHERS) PER DETAILS 5&9/N4.0 |
| 7 | PLUMBING FIXTURE PER P1.0 |
| 8 | NOT USED |
| 9 | NOT USED |
| 10 | TOILET TISSUE DISPENSER PER ACCESSIBLE HEIGHTS TABLE 10/P2.0 |
| 11 | TOILET SEAT COVER DISPENSER PER P1.0 (BY OTHERS) |
| 12 | GRAB BARS - SEE 6/A7.1 |

## KEY NOTES

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 MODULE OF THE SAME SIZE.
5. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 FOR ATTACHMENTS.
6. REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS & DIMENSIONS.
7. REFER TO DETAILS 1 & 3, 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. TOILET COMPARTMENT DOORS LOCATED IN THE SIDE WALL OR PARTITION, THE DOOR OPENING SHALL BE 4 INCHES (102MM) MAXIMUM FROM THE FRONT PARTITION, 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, U.O.N.

### SITE NOTE

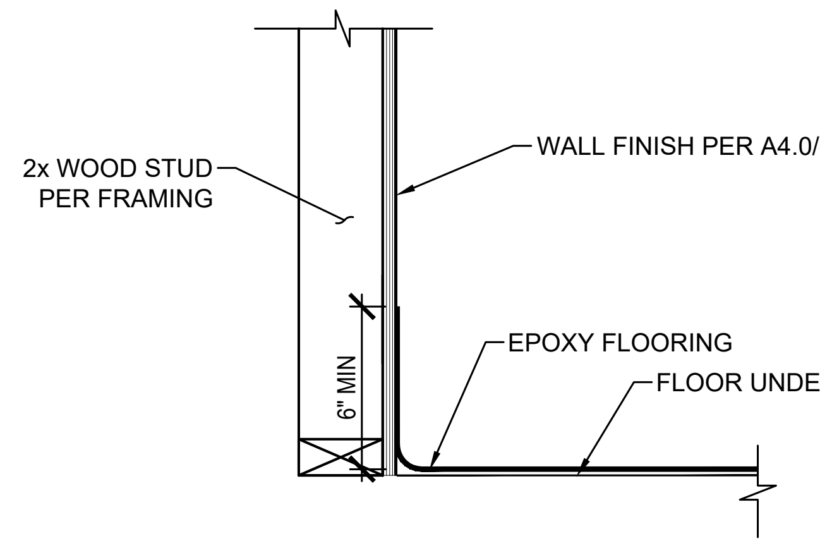
3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

## GENERAL NOTES

## NOT USED 16

## NOT USED 17

## NOT USED 18



## PROTECTION OF WOOD WALLS @ TOILET ROOMS

SCALE: 1/4" = 1'-0" 19

| | |
|---|---|
| ⟨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

SCALE: 1/4" = 1'-0" 20

IDENTIFICATION STAMP
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APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)

FORM®

SITE SPECIFIC PROJECT NAME

STOCKPILE
MOBILE MODULAR
(11) 36'X40' BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD

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

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| REVISIONS |
|---|
| 1 |
| 2 |
| 3 |
| 4 |

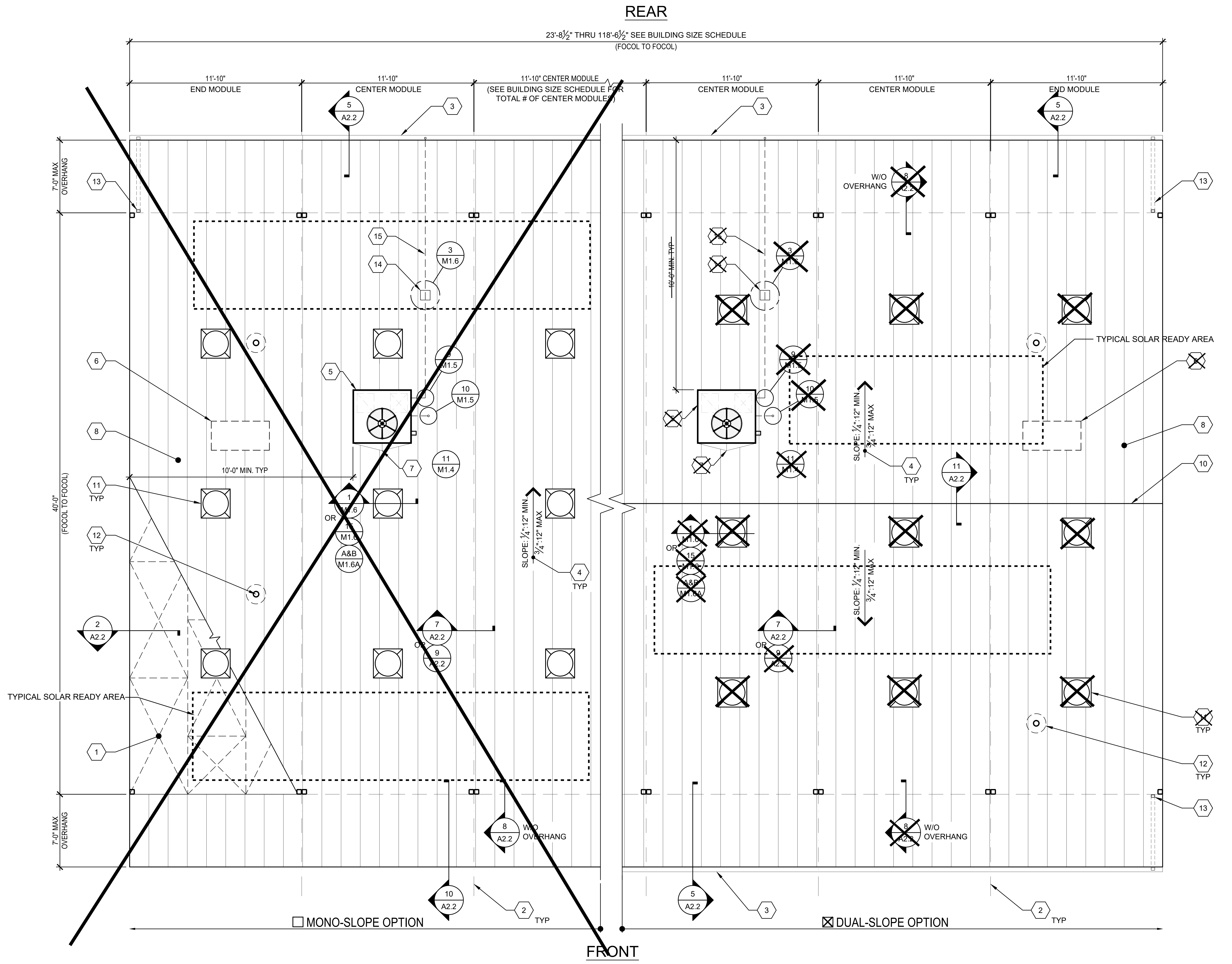
| | |
|---|---|
| DRAWN BY: | AV |
| SCALE: | AS NOTED |
| DATE: | 27/03/2026 |
| PROJECT NO: | 2003-26 |

SHEET TITLE:

RESTROOM FLOOR PLAN

SHEET NUMBER:

A1.2



## TYPICAL ROOF PLAN

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

1 ~~ROOF SHEATHING PER SHEET S4.1 OR~~ STEEL STRAP CROSS BRACING PER S4.0
2 TYPICAL MOD LINE
3 ~~OPTIONAL~~ GUTTER PER DETAIL 5/A2.2
4 TYPICAL ROOF SLOPE
~~5 OPTIONAL ROOF MOUNTED HVAC PER M1.7~~
~~6 OPTIONAL ATTIC MOUNTED SPLIT-SYSTEM HVAC PER M1.7~~
~~7 CRICKET @ OPTIONAL HVAC PER 12/A2.2~~
8 STANDING SEAM METAL ROOF PER 7/S0.0 & DETAILS ON SHEET A2.2
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 FOR MIN. # OF DRAINS.
~~14 ROOF-TOP PIPE SUPPORT BLOCK PER DETAIL 3/M1.6~~
~~15 CONDENSATE LINE PER DETAIL 9/M1.5~~

## KEY 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).

## SHEET NOTES

SOLAR ZONE REQUIRED, PER TITLE 24 SECTION 110.10: FOR NON-RESIDENTIAL BUILDINGS, 3 STORIES OR LESS, A MINIMUM OF 15% OF ROOF AREA (EXCLUDING SKYLIGHTS) MUST BE SET ASIDE FOR PHOTO-VOLTAICS (PV). THE ROOF MUST HAVE NO ROOF OBSTRUCTIONS.

1. REQUIRED SOLAR-READY ZONE, AREA PER THE CHART BELOW, MUST BE PROVIDED ON BUILDING ROOF.
2. ZONE MUST BE LEFT VOID OF ROOF-MOUNTED HVAC UNITS, SKYLIGHTS OR OTHER OBSTRUCTIONS THAT WOULD HINDER FUTURE INSTALLATION OF SOLAR SYSTEM COMPONENTS, INCLUDING PV PANELS.
3. TOTAL AREA REQUIRED FOR SOLAR-READY ZONE DOES NOT NEED TO BE LOCATED IN ONE AREA BUT CAN BE SPREAD OUT OVER ROOF.
4. SOLAR-READY ZONE SHALL NOT INCLUDE ROOF OVERHANGS, AND SOLAR SYSTEM COMPONENTS MAY NOT BE PLACED THERE.
5. THE ROOF STRUCTURE 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.
6. EQUIPMENT SUCH AS SOLAR MODULES, INVERTERS, AND METERING EQUIPMENT DO NOT NEED TO BE INSTALLED, NOR DOES CONDUIT, PIPING, OR PRE-INSTALLED MOUNTING HARDWARE.
7. A STRUCTURAL ENGINEER SHOULD BE CONSULTED PRIOR TO ANY FUTURE SOLAR INSTALLATIONS TO DETERMINE THE ADEQUACY OF THE ROOF FRAMING TO SUSTAIN THE LOADS OF THE INSTALLATION ON THE BUILDING STRUCTURE.
8. A SEPARATE DSA APPLICATION NUMBER IS REQUIRED FOR DESIGN & INSTALLATION OF THE SOLAR PANEL SYSTEM, ITS ANCHORAGE & ROOF SUPPORT STRUCTURE.

### ROOF AREA DRAINS
(WITH 7'+7' OVERHANGS)

| BUILDING SIZE (NOM.) | ROOF AREA | MINIMUM NO. OF DRAINS | SIZE OF DRAIN |
|---|---|---|---|
| ☐ 24'x40' | 1296 | 1 | 2x3 |
| ☒ 36'x40' | 1644 | 1 | 2x3 |
| ☐ 48'x40' | 2592 | 1 | 2x3 |
| ☐ 60'x40' | 3420 | 2 | 2x3 |
| ☐ 72'x40' | 3888 | 2 | 2x3 |
| ☐ 84'x40' | 4536 | 2 | 2x3 |
| ☐ 96'x40' | 5184 | 2 | 2x3 |
| ☐ 108'x40' | 5832 | 2 | 2x3 |
| ☐ 120'x40' | 6480 | 3 | 2x3 |

NOTES:

1. DOWNSPOUTS & LEADERS PER C.P.C. 1106.1 AND TABLE 1103.1.
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.

## ROOF DRAIN SCHEDULE

| BUILDING SIZE SCHEDULE | | | |
|---|---|---|---|
| BUILDING SIZE (FT) | TOTAL # OF 12'-0" WIDE MODULES | TOTAL # OF CENTER MODULES | OVERALL BUILDING WIDTH[1] |
| ☐ 24'x40' | 2 | 0 | 23'-8½" |
| ☒ 36'x40' | 3 | 1 | 35'-6¾" |
| ☐ 48'x40' | 4 | 2 | 47'-5" |
| ☐ 60'x40' | 5 | 3 | 59'-3¼" |
| ☐ 72'x40' | 6 | 4 | 71'-1½" |
| ☐ 84'x40' | 7 | 5 | 82'-11¾" |
| ☐ 96'x40' | 8 | 6 | 94'-10" |
| ☐ 108'x40' | 9 | 7 | 106'-8¼" |
| ☐ 120'x40' | 10 | 8 | 118'-6½" |

NOTES:

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

## BUILDING SIZE SCHEDULE

## NOT USED

3

## NOT USED

4

| REQUIRED SOLAR-READY ZONE | | | |
|---|---|---|---|
| BUILDING SIZE (NOM.) | MAX. ROOF AREA (SQ. FT.) | REQ'D ZONE AREA (SQ. FT.) | *CLIMATE ZONE GROUP(S) |
| ☐ 24'x40' | 960 | 0 | N/A |
| ☒ 36'x40' | 1440 | 0 | N/A |
| ☐ 48'x40' | 1920 | 288 | D |
| ☐ 60'x40' | 2400 | 360 | D |
| ☐ 72'x40' | 2880 | 432 | C, D |
| ☐ 84'x40' | 3360 | 504 | A, B & D |
| ☐ 96'x40' | 3840 | 576 | A & D |
| ☐ 108'x40' | 4320 | 648 | D |
| ☐ 120'x40' | 4800 | 720 | D |

*NOTE:
~~GROUP A: CLIMATE ZONES 1, 16~~
GROUP B: CLIMATE ZONES 2 - 5
GROUP C: CLIMATE ZONES 6 - 13
GROUP D: CLIMATE ZONES 14, 15

## SOLAR-READY ZONE REQUIREMENTS

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DATE: 4/08/2026

American Modular Systems
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PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122050 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 12/11/2023~~

☐ **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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UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS
△1
△2
△3
△4

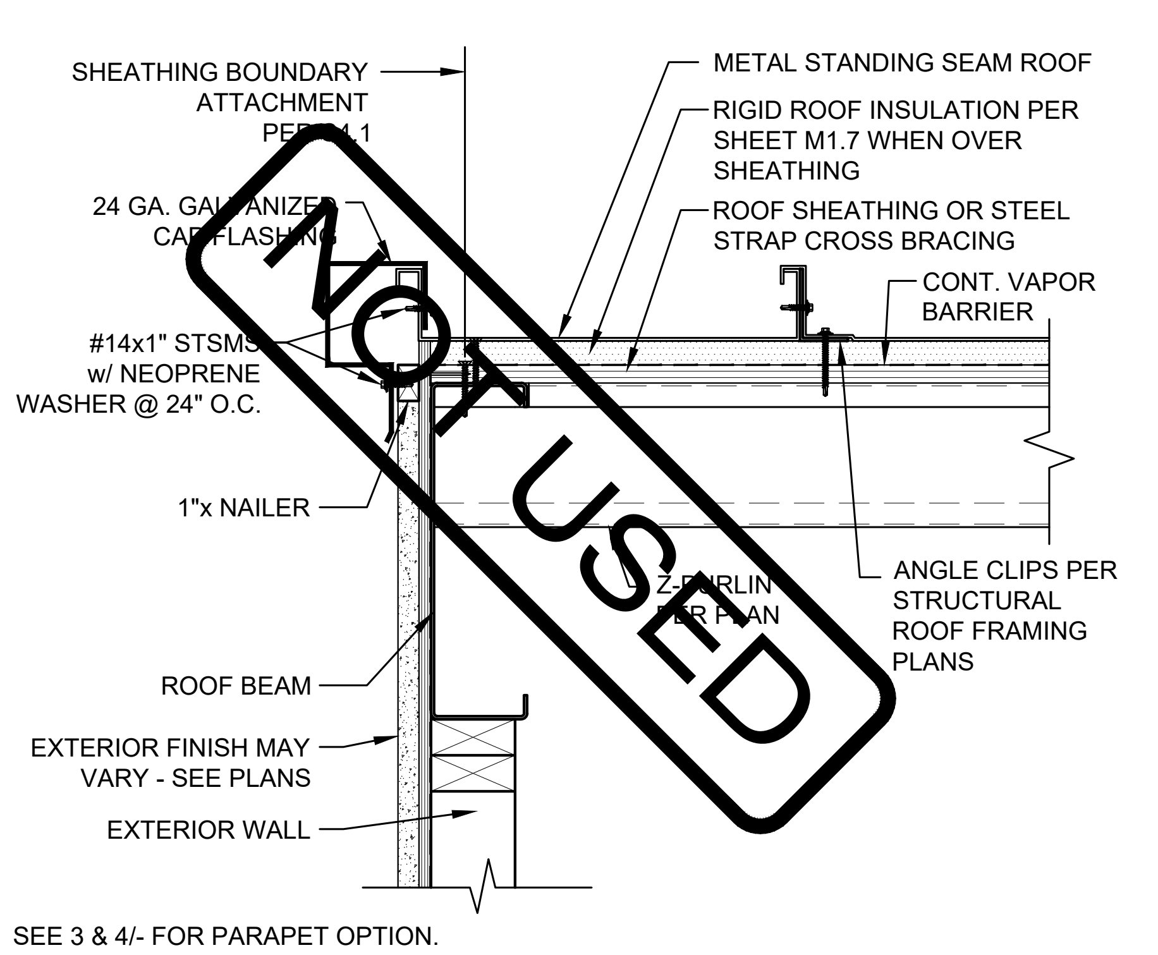
| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:
TYPICAL ROOF PLAN
METAL STANDING SEAM
(WITHOUT PARAPETS)

SHEET NUMBER:
A2.0

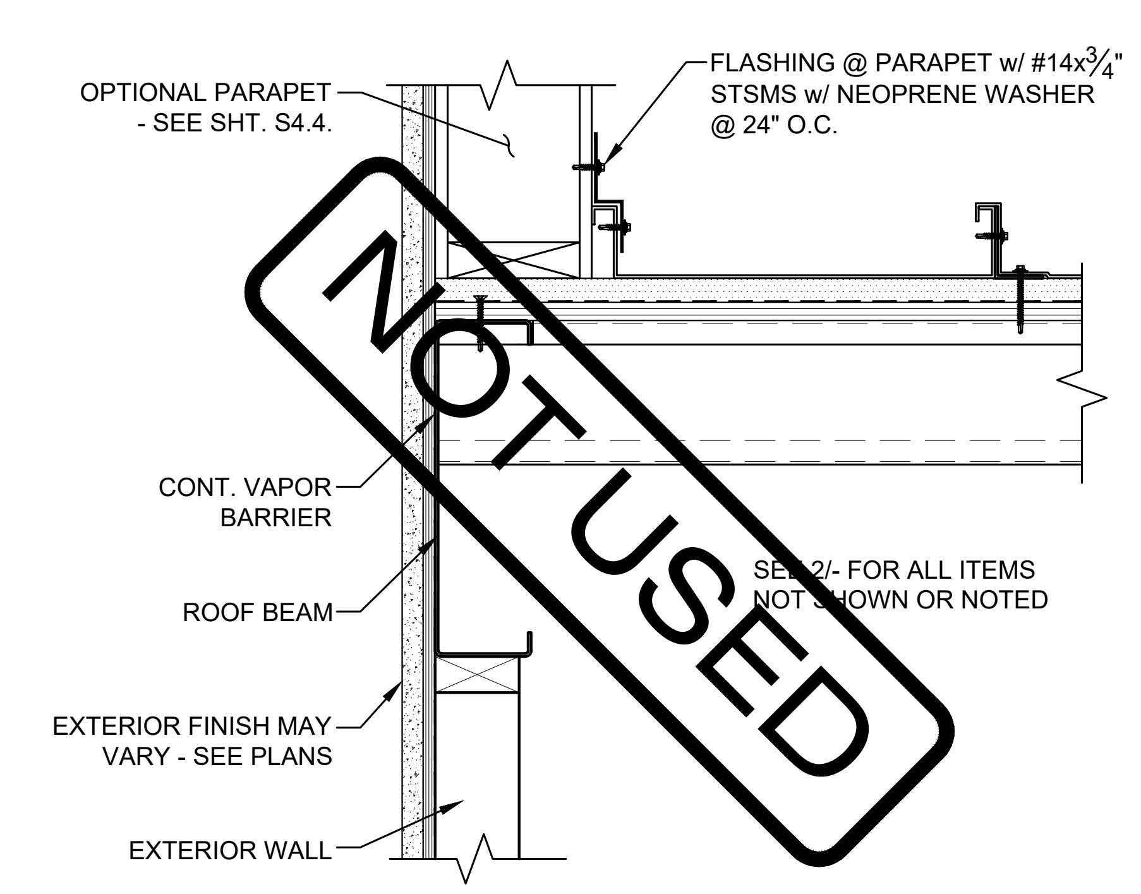
1. REFER TO BUILDING SECTIONS IN SHEET A7.3 FOR BUILDING ENVELOPE
2. REFER TO MINIMUM INSULATION SCHEDULES ON SHEET M1.7 FOR ALL INSULATION REQUIREMENTS.

NOTES 1


SHEATHING BOUNDARY ATTACHMENT PER S4.1
24 GA. GALVANIZED CAP FLASHING
#14x1" STSMS w/ NEOPRENE WASHER @ 24" O.C.
1"x NAILER
ROOF BEAM
EXTERIOR FINISH MAY VARY - SEE PLANS
EXTERIOR WALL
METAL STANDING SEAM ROOF
RIGID ROOF INSULATION PER SHEET M1.7 WHEN OVER SHEATHING
ROOF SHEATHING OR STEEL STRAP CROSS BRACING
CONT. VAPOR BARRIER
Z-PURLIN PER PLAN
ANGLE CLIPS PER STRUCTURAL ROOF FRAMING PLANS
NOT USED

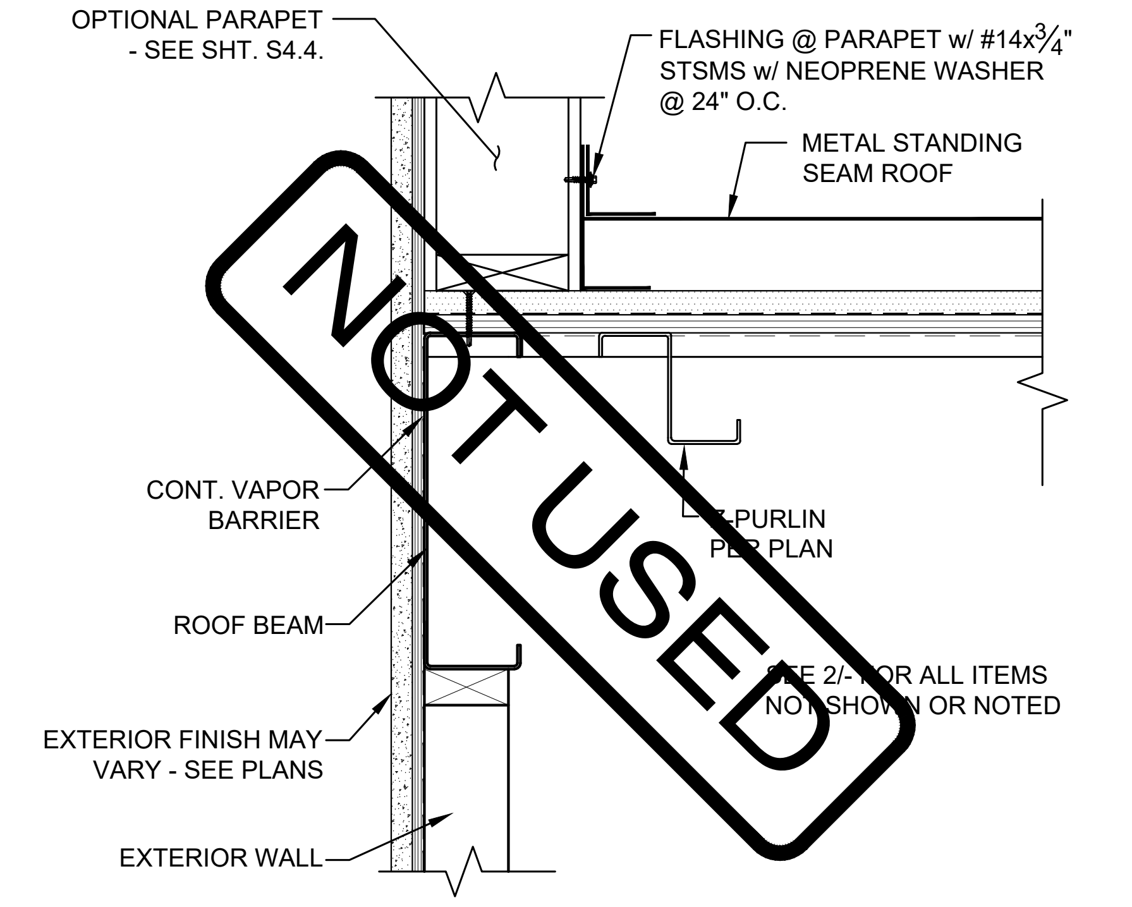
SEE 3 & 4/- FOR PARAPET OPTION.
SEE SHEETS A5.2, A5.4, & A5.6 FOR EXTERIOR FINISHES.

METAL ROOF w/ DECKING SCALE : 1 1/2"=1'-0" 2


OPTIONAL PARAPET - SEE SHT. S4.4.
FLASHING @ PARAPET w/ #14x3/4" STSMS w/ NEOPRENE WASHER @ 24" O.C.
CONT. VAPOR BARRIER
ROOF BEAM
EXTERIOR FINISH MAY VARY - SEE PLANS
EXTERIOR WALL
SEE 2/- FOR ALL ITEMS NOT SHOWN OR NOTED
NOT USED

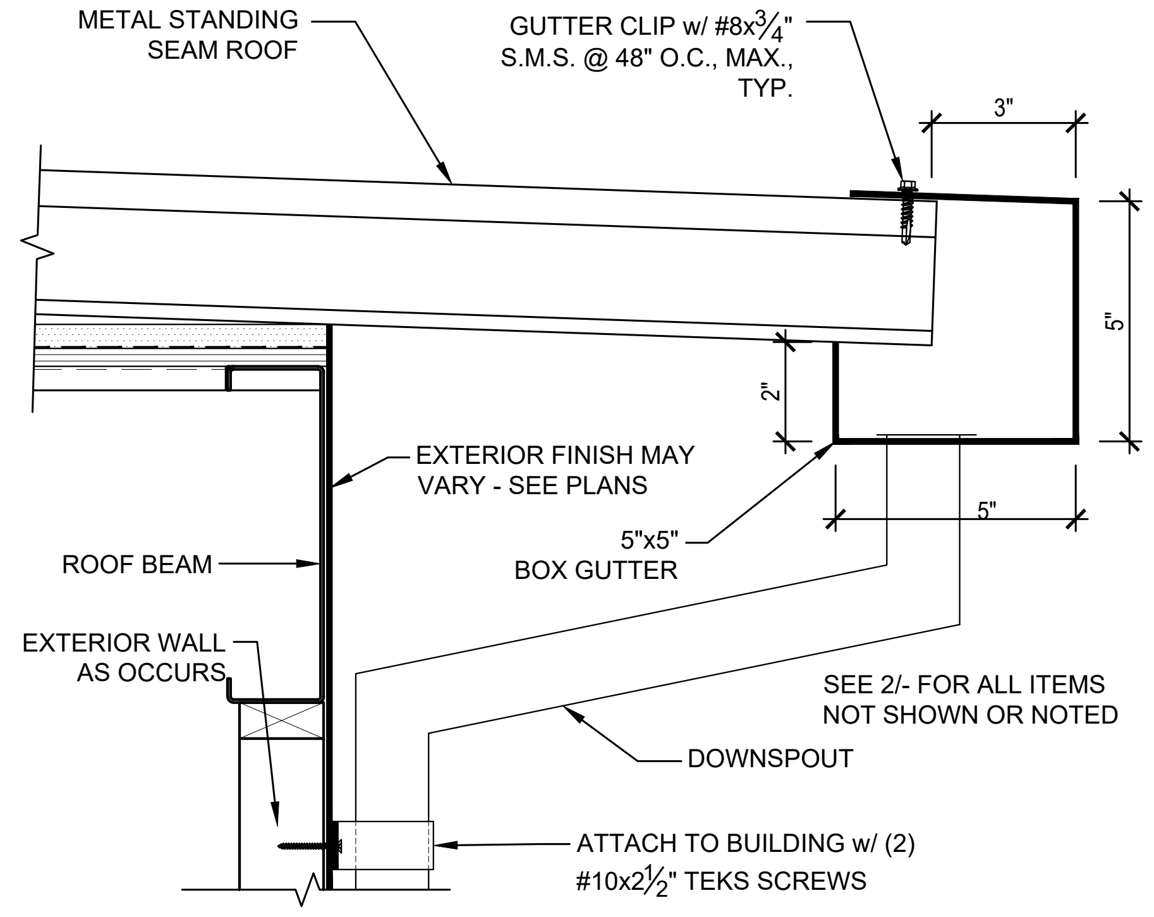
SEE 6/- FOR SCUPPER AT PARAPET.
SEE SHEETS A5.2, A5.4, & A5.6 FOR EXTERIOR FINISHES.

☐ OPTIONAL PARAPET @ METAL ROOF SIDE SCALE : 1 1/2"=1'-0" 3


OPTIONAL PARAPET - SEE SHT. S4.4.
FLASHING @ PARAPET w/ #14x3/4" STSMS w/ NEOPRENE WASHER @ 24" O.C.
METAL STANDING SEAM ROOF
CONT. VAPOR BARRIER
ROOF BEAM
EXTERIOR FINISH MAY VARY - SEE PLANS
EXTERIOR WALL
Z-PURLIN PER PLAN
SEE 2/- FOR ALL ITEMS NOT SHOWN OR NOTED
NOT USED

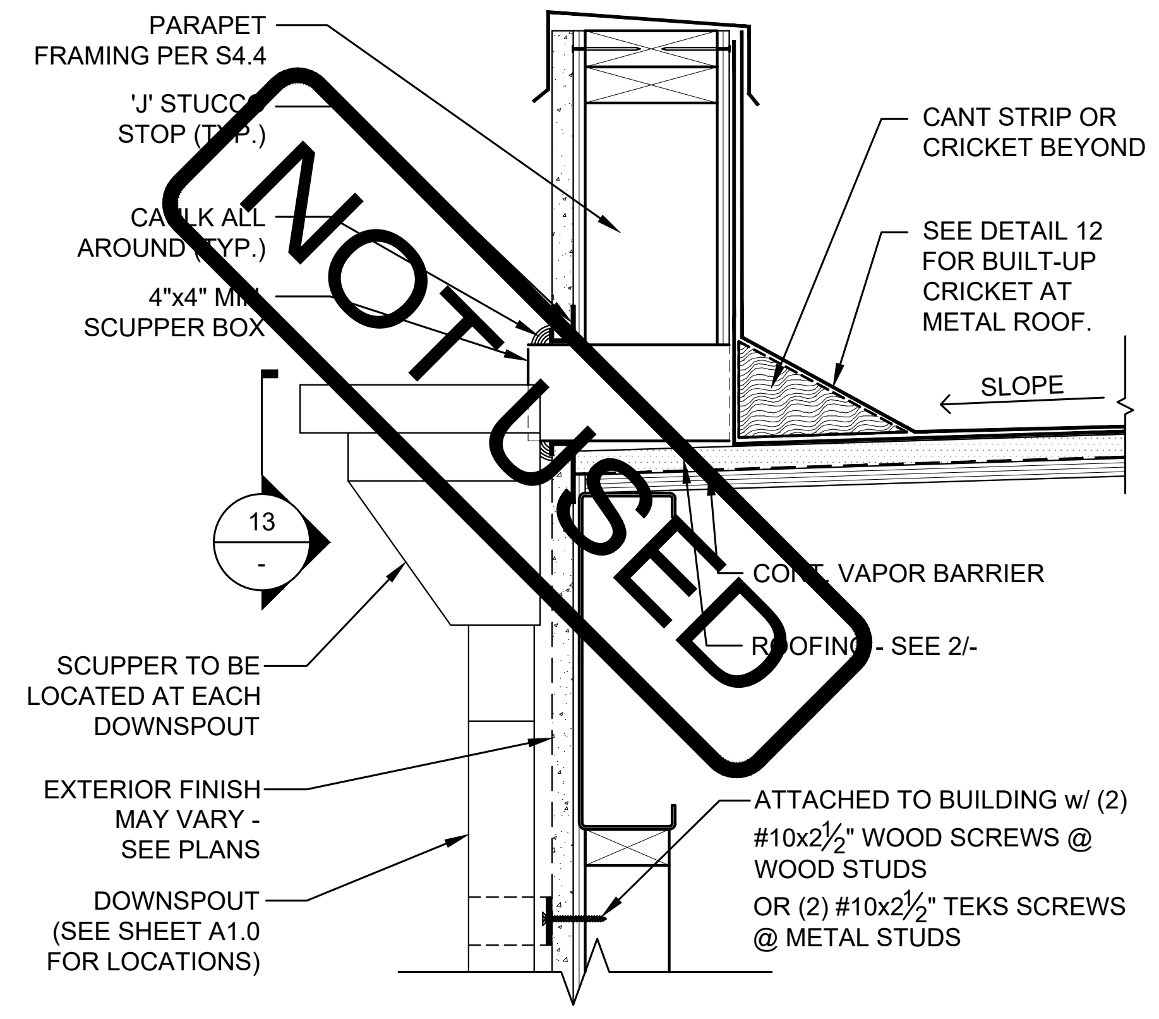
SEE 6/- FOR SCUPPER AT PARAPET.
SEE SHEETS A5.2, A5.4, & A5.6 FOR EXTERIOR FINISHES.

☐ OPTIONAL PARAPET @ METAL ROOF END SCALE : 1 1/2"=1'-0" 4

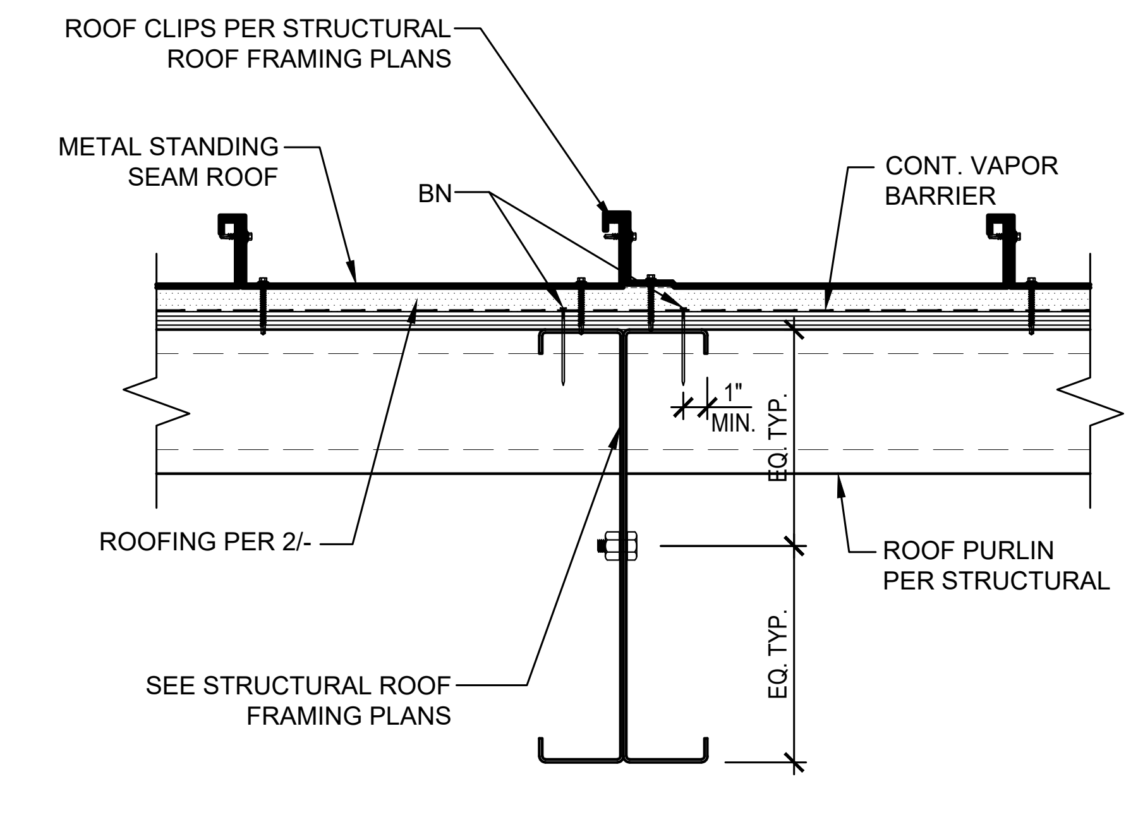

METAL STANDING SEAM ROOF
GUTTER CLIP w/ #8x3/4" S.M.S. @ 48" O.C., MAX., TYP.
3"
5"
2"
5"
EXTERIOR FINISH MAY VARY - SEE PLANS
5"x5" BOX GUTTER
ROOF BEAM
EXTERIOR WALL AS OCCURS
SEE 2/- FOR ALL ITEMS NOT SHOWN OR NOTED
DOWNSPOUT
ATTACH TO BUILDING w/ (2) #10x2½" TEKS SCREWS

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

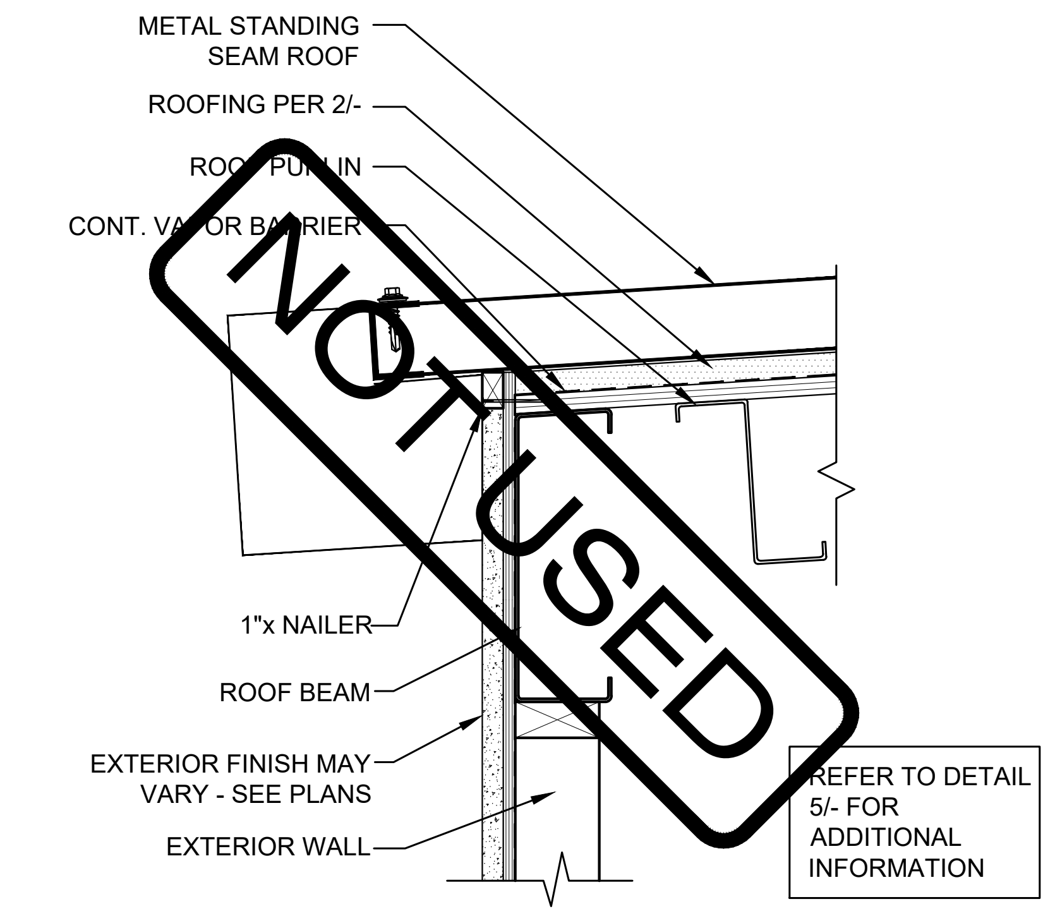

PARAPET FRAMING PER S4.4
'J' STUCCO STOP (TYP.)
CAULK ALL AROUND (TYP.)
4"x4" MIN. SCUPPER BOX
13
-
SCUPPER TO BE LOCATED AT EACH DOWNSPOUT
EXTERIOR FINISH MAY VARY - SEE PLANS
DOWNSPOUT (SEE SHEET A1.0 FOR LOCATIONS)
CANT STRIP OR CRICKET BEYOND
SEE DETAIL 12 FOR BUILT-UP CRICKET AT METAL ROOF.
SLOPE
CONT. VAPOR BARRIER
ROOFING - SEE 2/-
ATTACHED TO BUILDING w/ (2) #10x2½" WOOD SCREWS @ WOOD STUDS OR (2) #10x2½" TEKS SCREWS @ METAL STUDS
NOT USED

TYP. SCUPPER DETAIL SCALE : 1 1/2"=1'-0" 6


ROOF CLIPS PER STRUCTURAL ROOF FRAMING PLANS
METAL STANDING SEAM ROOF
BN
CONT. VAPOR BARRIER
1" MIN.
EQ. TYP.
EQ. TYP.
ROOFING PER 2/-
ROOF PURLIN PER STRUCTURAL
SEE STRUCTURAL ROOF FRAMING PLANS

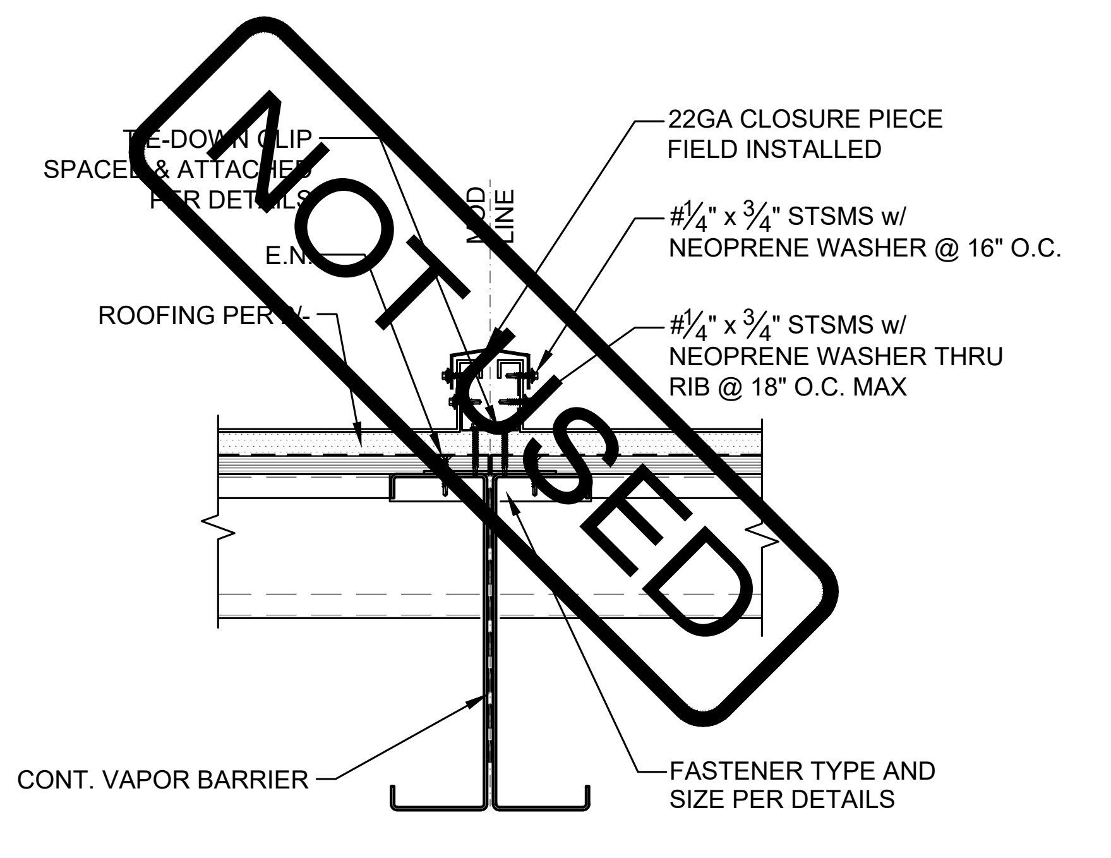
NOTE: ~~SEE DETAIL 9/- FOR OPTIONAL MOD-LINE CONNECTION AT SEISMIC JOINT.~~

TYP. ROOF BEAM CONN. @ MODLINE SCALE : 1 1/2"=1'-0" 7



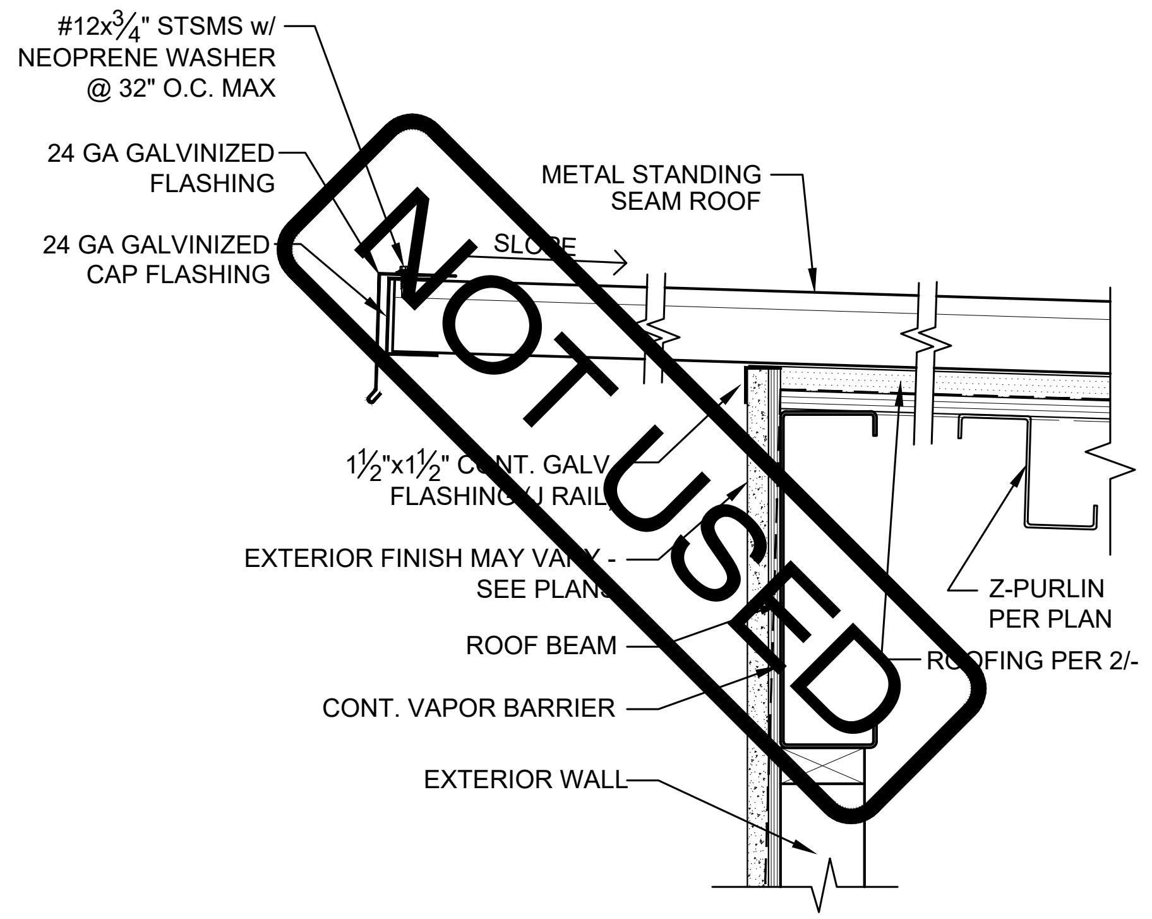
SEE DETAIL 5/- WITH OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE DETAIL 10/- WITH OVERHANG OPTION ONLY.
SEE SHEET S4.1 FOR SOFFIT NOT SHOWN.

METAL ROOF @ END WALLS (w/o OVERHANGS) SCALE : 1 1/2"=1'-0" 8


TIE-DOWN CLIP SPACED & ATTACHED PER DETAILS
E.N.
ROOFING PER 2/-
MOD LINE
22GA CLOSURE PIECE FIELD INSTALLED
#1/4" x 3/4" STSMS w/ NEOPRENE WASHER @ 16" O.C.
#1/4" x 3/4" STSMS w/ NEOPRENE WASHER THRU RIB @ 18" O.C. MAX
CONT. VAPOR BARRIER
FASTENER TYPE AND SIZE PER DETAILS
NOT USED

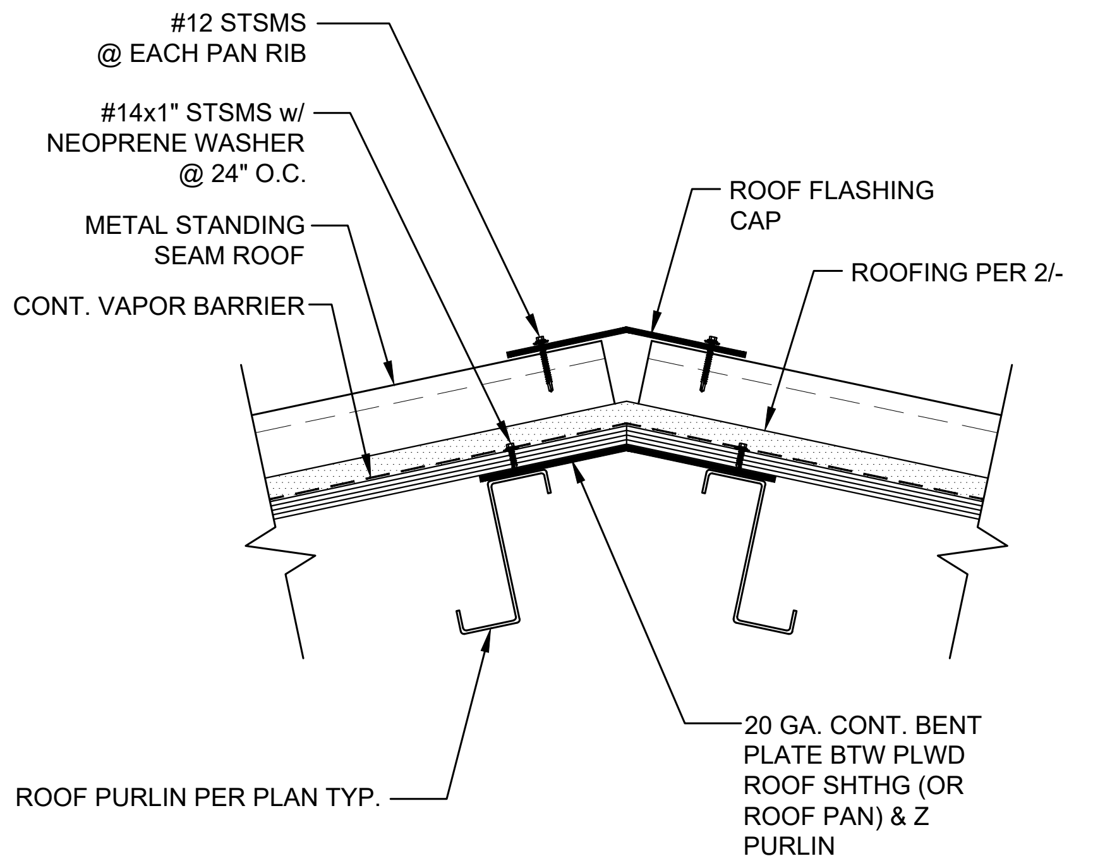
NOTE: SEE DETAIL 7/- FOR TYPICAL MOD-LINE CONNECTION.

☐ METAL ROOF @ MODLINE OPTION SCALE : 1 1/2"=1'-0" 9

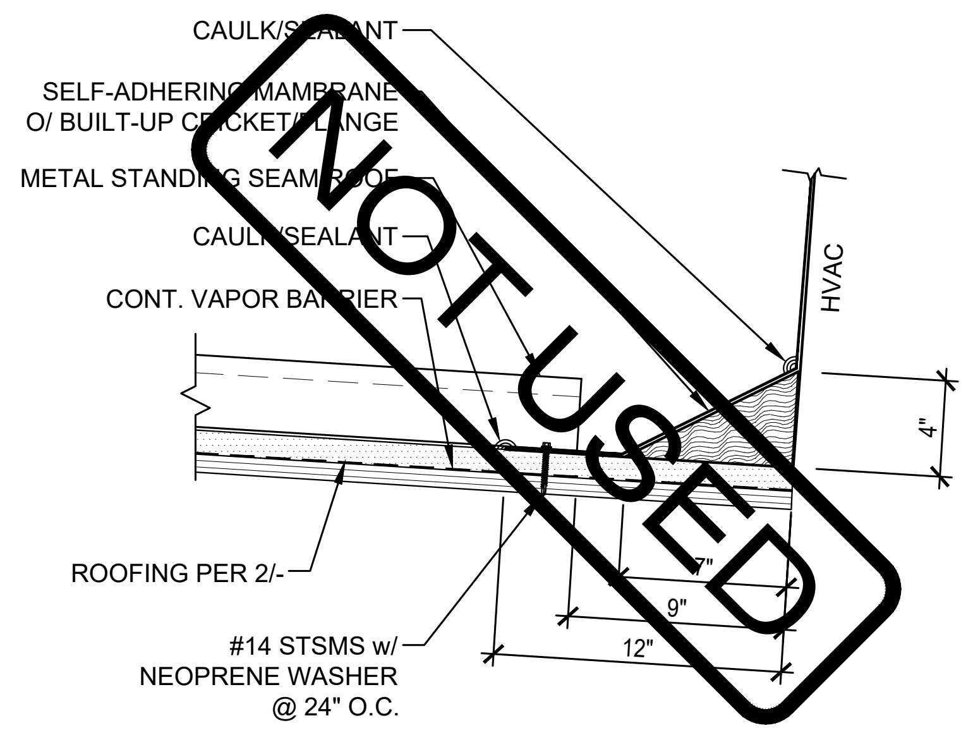

#12x3/4" STSMS w/ NEOPRENE WASHER @ 32" O.C. MAX
24 GA GALVINIZED FLASHING
24 GA GALVINIZED CAP FLASHING
METAL STANDING SEAM ROOF
SLOPE
1½"x1½" CONT. GALV. FLASHING (J RAIL)
EXTERIOR FINISH MAY VARY - SEE PLANS
ROOF BEAM
CONT. VAPOR BARRIER
EXTERIOR WALL
Z-PURLIN PER PLAN
ROOFING PER 2/-
NOT USED

SEE DETAIL 5/- WITH OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE DETAIL 8/- WITHOUT OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE SHEET S4.1 FOR SOFFIT NOT SHOWN.

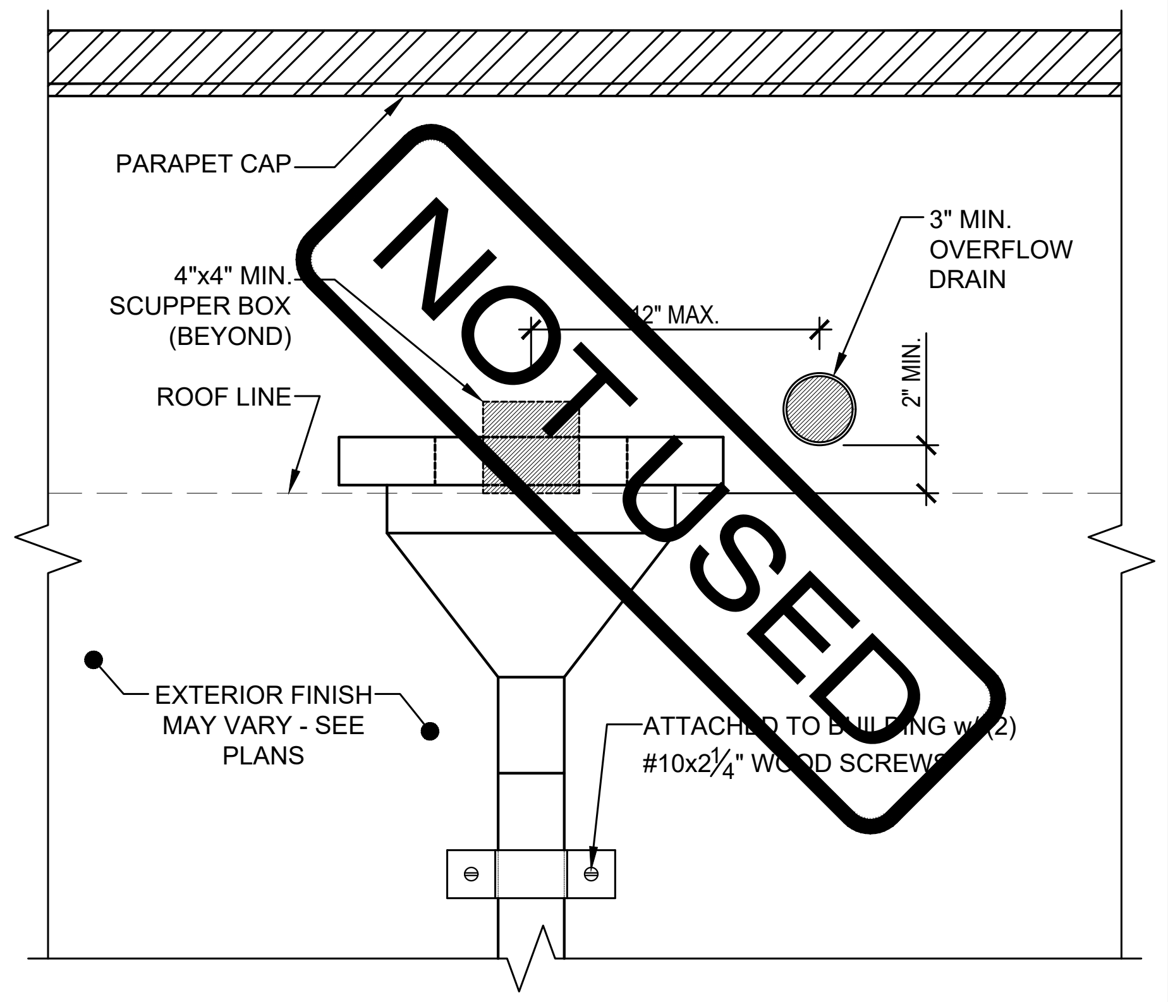
METAL ROOF EDGE @ OVERHANG SCALE : 1 1/2"=1'-0" 10


#12 STSMS @ EACH PAN RIB
#14x1" STSMS w/ NEOPRENE WASHER @ 24" O.C.
METAL STANDING SEAM ROOF
CONT. VAPOR BARRIER
ROOF FLASHING CAP
ROOFING PER 2/-
ROOF PURLIN PER PLAN TYP.
20 GA. CONT. BENT PLATE BTW PLWD ROOF SHTHG (OR ROOF PAN) & Z PURLIN

☒ OPTIONAL METAL DUAL SLOPED SCALE: 1-1/2"=1'-0" 11



BUILT-UP CRICKET AT METAL ROOF SCALE: 1-1/2"=1'-0" 12


PARAPET CAP
4"x4" MIN. SCUPPER BOX (BEYOND)
ROOF LINE
12" MAX.
2" MIN.
3" MIN. OVERFLOW DRAIN
EXTERIOR FINISH MAY VARY - SEE PLANS
ATTACHED TO BUILDING w/ (2) #10x2¼" WOOD SCREWS
NOT USED

TYP. SCUPPER w/ OVERFLOW DRAIN SCALE: 1-1/2"=1'-0" 13

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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DATE: 4/08/2026

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

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

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APP: 04-122050 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 12/11/2023

☐ **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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△1
△2
△3
△4

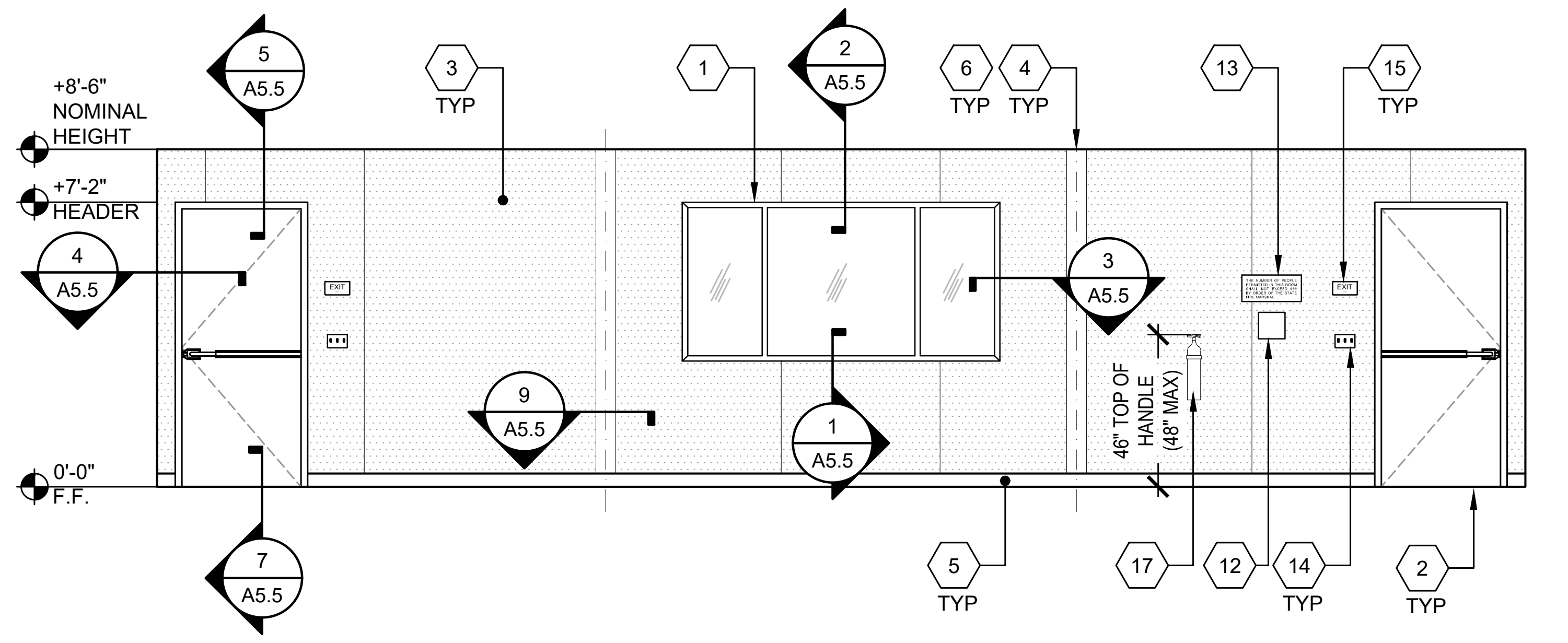
| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

TYPICAL ROOF DETAILS
METAL STANDING SEAM

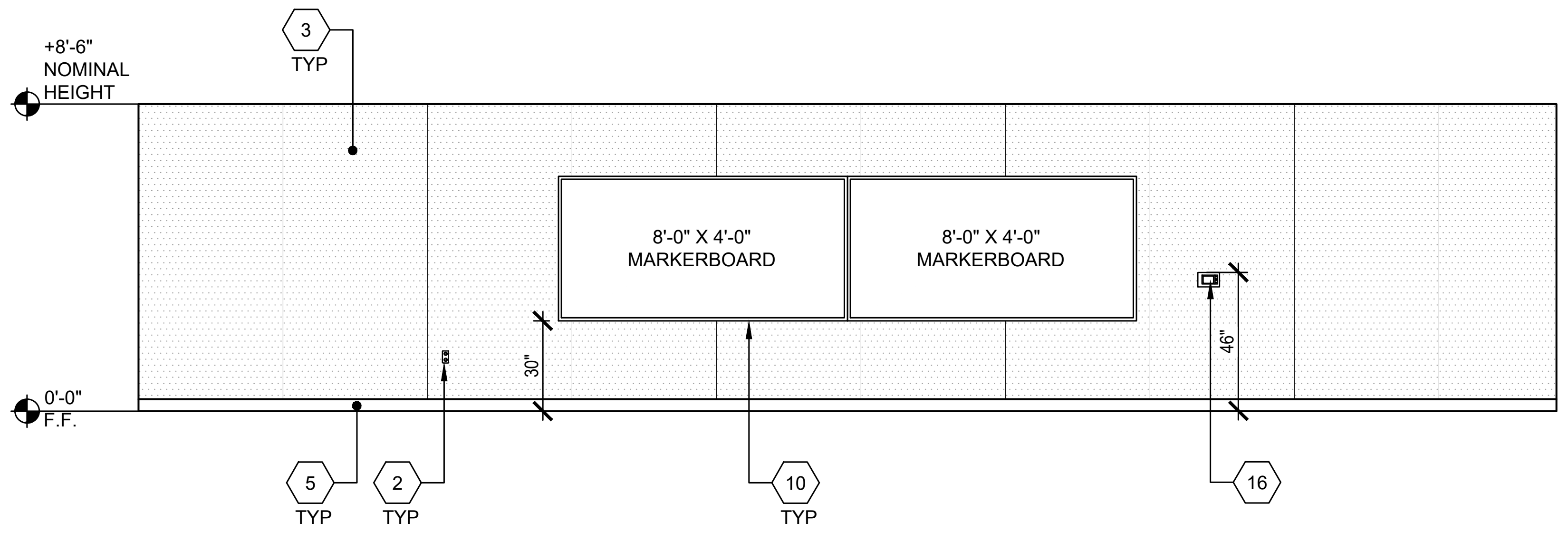
SHEET NUMBER:

A2.2



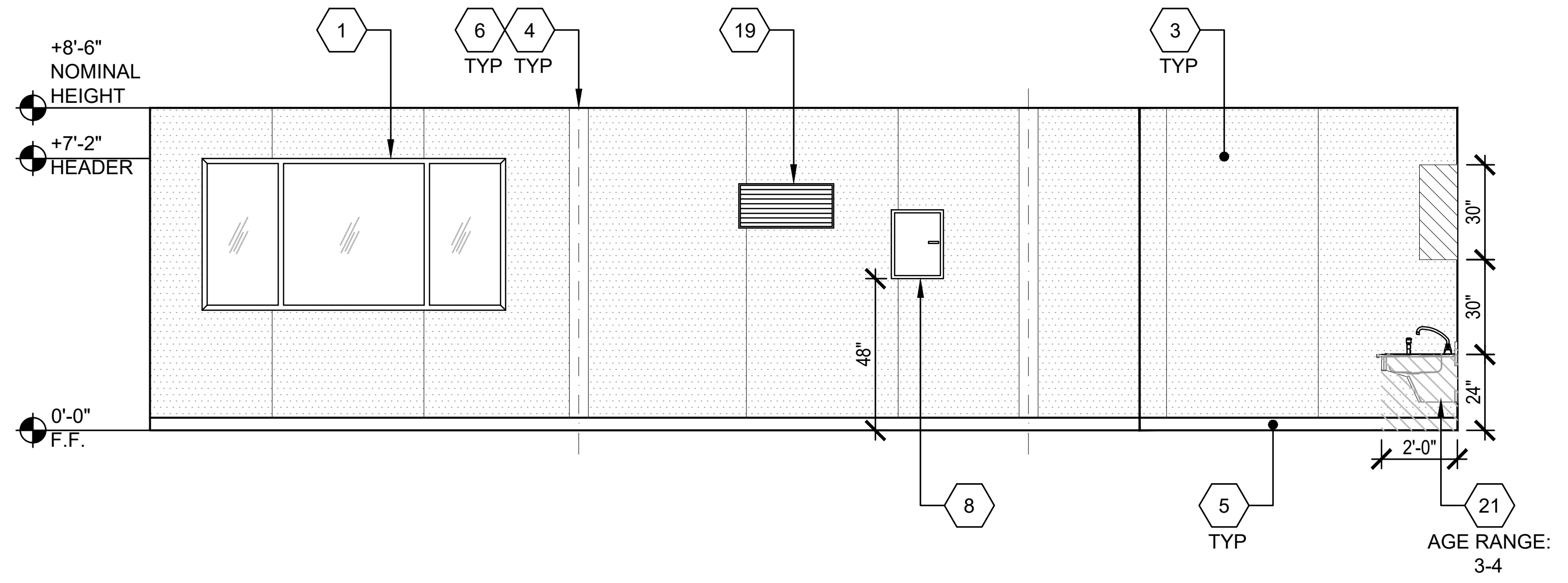
## CLASSROOM FRONT END WALL ELEVATION

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



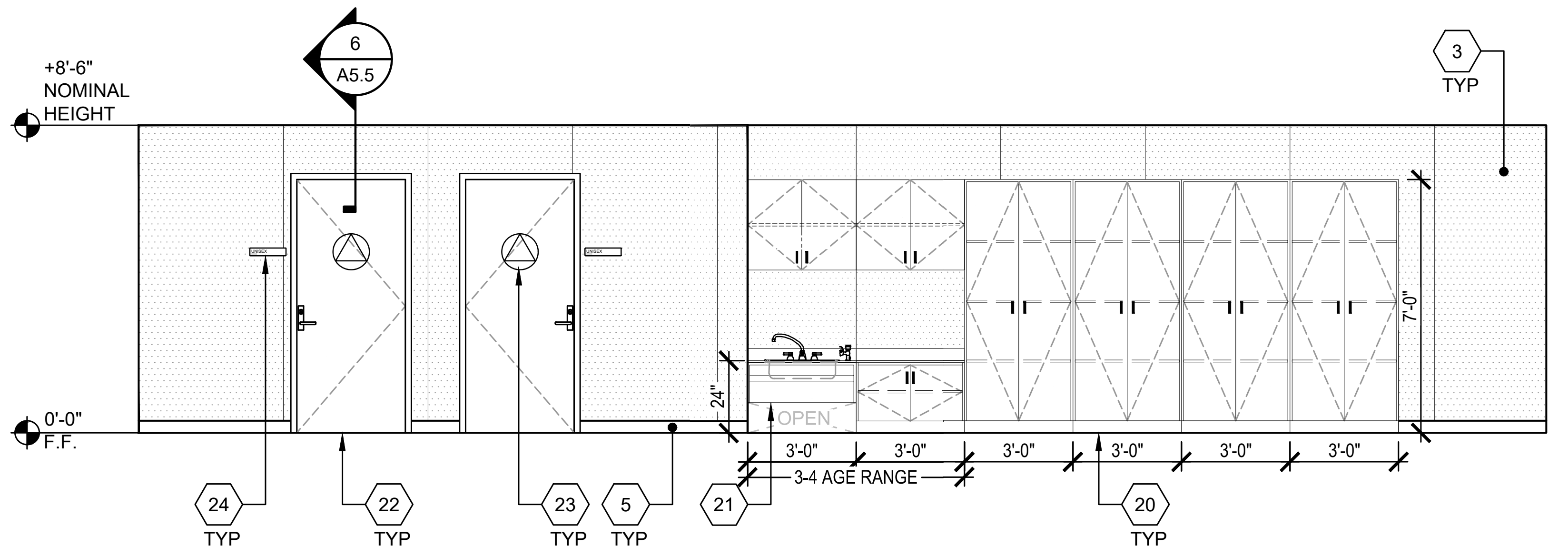
## CLASSROOM SIDE WALL ELEVATION

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



## CLASSROOM REAR END WALL ELEVATION

SCALE : 1/4"=1'-0" 3



## CLASSROOM SIDE WALL ELEVATION

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

## NOT USED

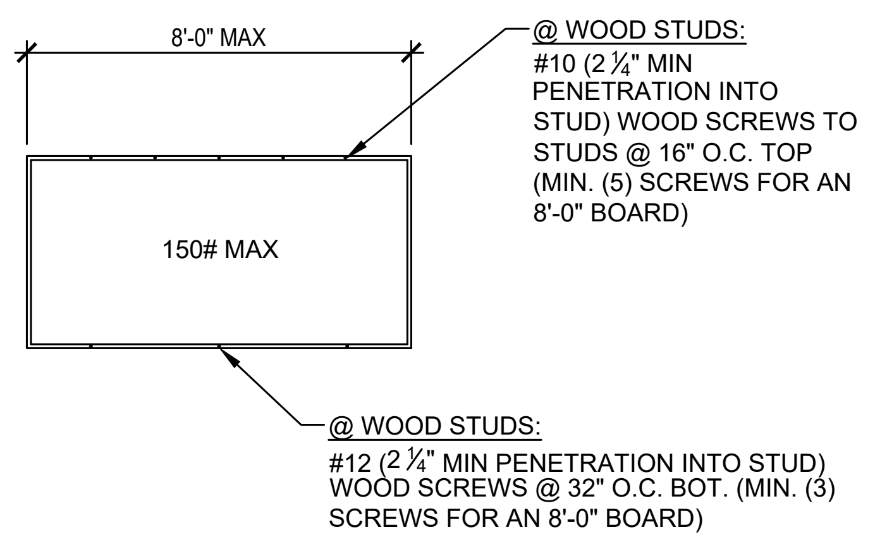
5

## NOT USED

6

## NOT USED

7



@ WOOD STUDS:
#10 (2 ¼" MIN PENETRATION INTO STUD) WOOD SCREWS TO STUDS @ 16" O.C. TOP (MIN. (5) SCREWS FOR AN 8'-0" BOARD)

@ WOOD STUDS:
#12 (2 ¼" MIN PENETRATION INTO STUD) WOOD SCREWS @ 32" O.C. BOT. (MIN. (3) SCREWS FOR AN 8'-0" BOARD)

NOTE:
1. ATTACHMENT IS FOR EACH MARKERBOARD.
2. EACH WHITEBOARD SHALL PROTRUDE 4" MAX HORIZONTALLY INTO THE CIRCULATION PATH, PER CBC SECTION 11B-307.2.
3. EACH WHITEBOARD SHALL HAVE FASTENERS PROVIDED BY MANUFACTURER AS NOTED ABOVE.

## MARKERBOARD ATT. DETAIL

SCALE : 1/4"=1'-0" 8

## NOT USED

9

## NOT USED

10

## NOT USED

11

## NOT USED

12

| | |
|---|---|
| 1 | WINDOW, SEE SPEC'S |
| 2 | TYP EXTERIOR DOOR |
| 3 | TACKBOARD - (FLAME RESISTANT INDUSTRIAL TACKABLE BOARD) - SHALL BE CLASS A RATED (ASTM E-84). NOMINAL PANEL THICKNESS SHALL BE ± 0.5" AND SHALL BE INSTALED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES. |
| 4 | TYP MOD LINE |
| 5 | TOP SET BASE (BY OTHERS) |
| 6 | BATTEN CLOSE-UP AT MOD-LINES, TYP |
| 7 | NOT USED |
| 8 | ELECTRICAL PANEL - SEE ELECTRICAL SHEETS |
| 9 | NOT USED |
| 10 | (2) 8'x4' MARKER BOARDS - SEE DETAIL 8/A4.0 |
| 11 | NOT USED |
| 12 | ASSISTIVE LISTENING SIGN, BY OTHERS, INSTALLED PER DETAIL 17/N4.0 SIGN SHALL BE A MAXIMUM OF 70" A.F.F. TO BASELINE OF HIGHEST TEXT. |
| 13 | OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY OTHERS) |
| 14 | LIGHT SWITCH - SEE ELECTRICAL SHEETS |
| 15 | EXIT TACTILE SIGN PER DETAIL 10/N4.0 (NIC) |
| 16 | THERMOSTAT, TOP @ 46" A.F.F. - SEE MECHANICAL SHEETS |
| 17 | FIRE EXTINGUISHER TOP OF HANDLE @ +48" MAX. A.F.F. PROTRUSION MAX 4" FROM WALL IF BOTTOM OF FIRE EXTINGUISHER GREATER THAN +27" A.F.F - SEE 19/N4.0 |
| 18 | TYP DUPLEX OUTLET - SEE ELECTRICAL SHEETS |
| 19 | HVAC GRILL |
| 20 | CASEWORK - AMS TO PROVIDE BLOCKING AS REQUIRED PER A7.1 |
| 21 | CASEWORK w/SINK & BUBBLER - REFER TO 17/A1.0 - AMS TO PROVIDE BLOCKING AS REQUIRED PER A7.1 |
| 22 | TYP INTERIOR DOOR |
| 23 | RESTROOM SIGNAGE (BY OTHERS) PER A1.2 SHEET |
| 24 | ROOM AND ISA SIGNAGE (BY OTHERS) PER A1.2 SHEET |

## KEY NOTES

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APP: 02-124133 INC:
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PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
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SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(11) 36'X40' BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-27

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1
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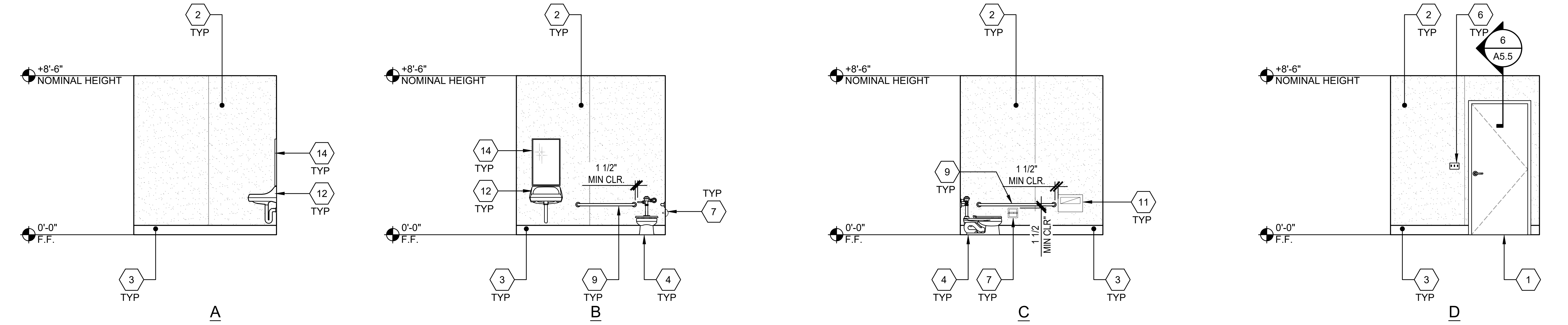
|---|---|
| DRAWN BY: | AV |
| SCALE: | AS NOTED |
| DATE: | 27/03/2026 |
| PROJECT NO: | 2003-26 |

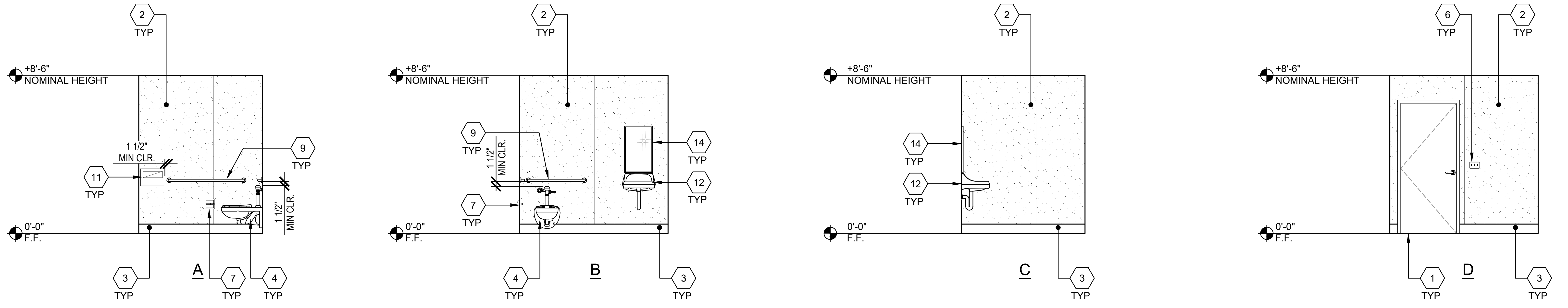
SHEET TITLE:
INTERIOR ELEVATIONS
CLASSROOM

SHEET NUMBER:
A4.0



## SINGLE RESTROOM ELEVATIONS

AGE RANGE: 3-4
SCALE: 1/4" = 1'-0"
1



## STAFF RESTROOM ELEVATIONS

AGE RANGE: 13-ADULT
SCALE: 1/4" = 1'-0"
2

## NOT USED

3

## NOT USED

4

| | |
|---|---|
| 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 COVED BASE |
| 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 & 14/P2.0 |
| 10 | NOT USED |
| 11 | TOILET SEAT COVER DISPENSER (BY OTHERS) PER P1.0 |
| 12 | ACCESSIBLE LAVATORY - SEE DETAIL 17/P2.0 |
| 13 | NOT USED |
| 14 | TYP. MIRROR (19# MAX. WEIGHT) - SEE DETAIL 17/P2.0 |

NOTE: FOR ACCESSIBLE FIXTURES & ACCESSORIES MOUNTING HEIGHT REQUIREMENTS (PER 2025 CBC CHAPTER 11B), SEE SHEET P2.0/10 FOR ACCESSIBLE HEIGHTS TABLE.

## KEY NOTES

## NOT USED

5

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24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(11) 36'X40' BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-27

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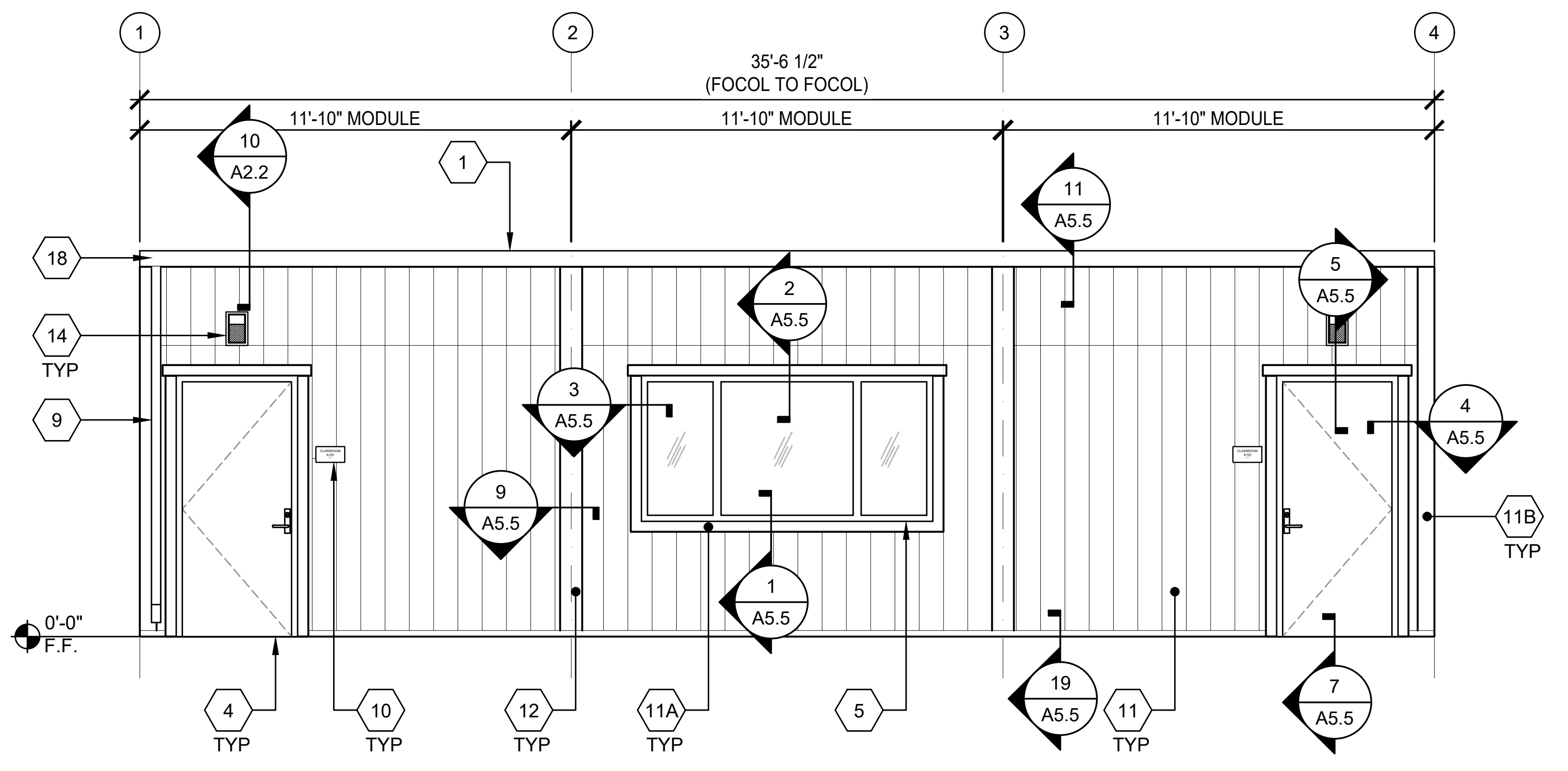
| SCALE: | AS NOTED |
| DATE: | 25/03/2026 |
| PROJECT NO: | 2003-26 |

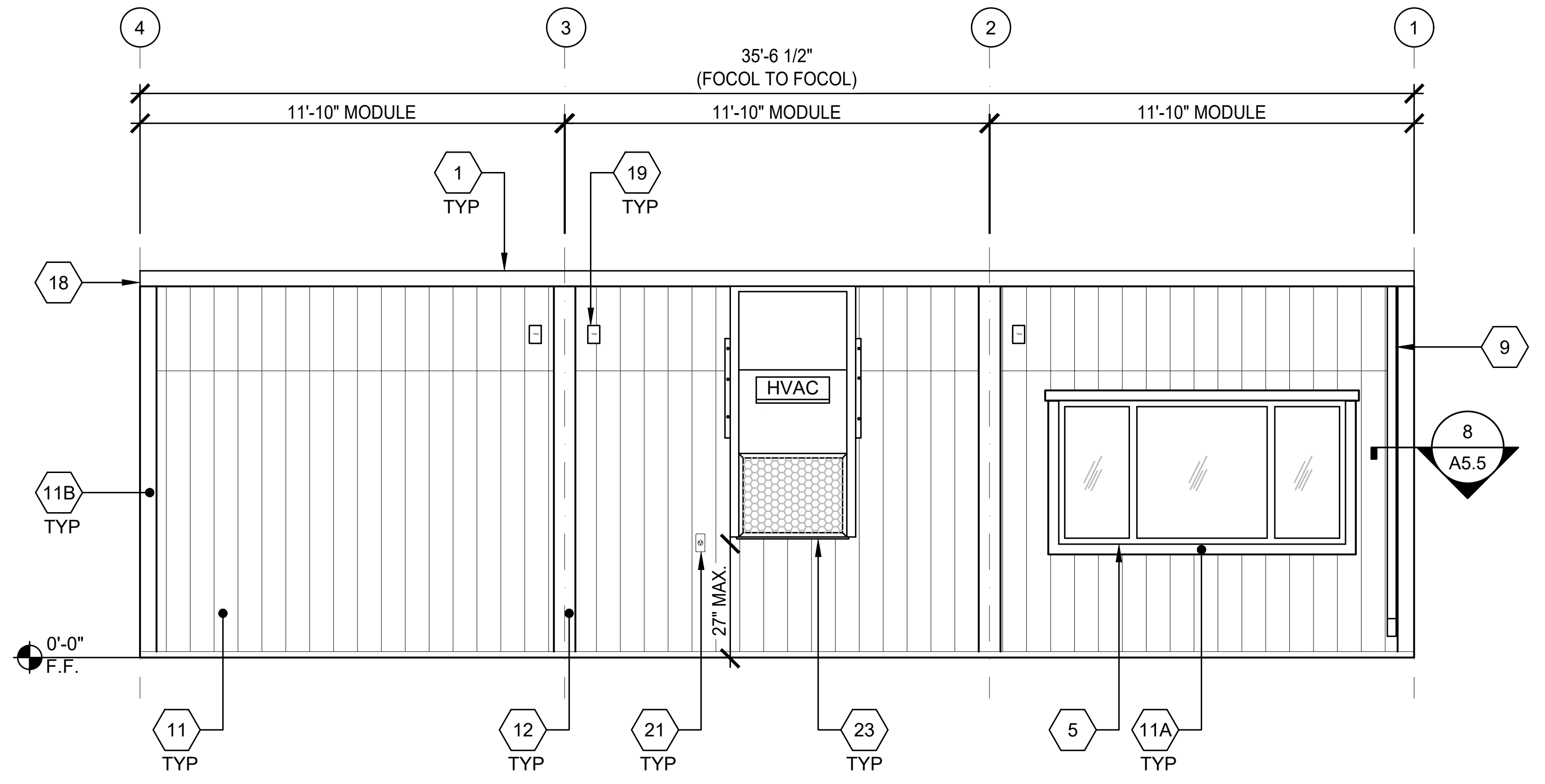
SHEET TITLE:
INTERIOR ELEVATIONS
RESTROOM OPTIONS

SHEET NUMBER:
A4.1



## EXTERIOR ELEVATION - FRONT

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



NOTES:

1. IF DISTANCE FROM WALKING SURFACE TO LOWEST PART OF HVAC IS MORE THAN 27", PROTECTIVE GUARDS SHALL BE INSTALLED (BY OWNER) CIRCULATION PATH LOCATIONS (11B-307.2).

*FOR SIMILAR DETAIL CALLOUTS NOT SHOWN, SEE ON DETAIL 1/-

## EXTERIOR ELEVATION - REAR

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

| | |
|---|---|
| 1 | STANDING SEAM METAL ROOFING |
| 2 | NOT USED |
| 3 | OVERHANG - SEE STRUCTURAL |
| 4 | TYP EXTERIOR DOOR - SEE SCHEDULE SHEET N3.0 |
| 5 | WINDOW - SEE SCHEDULE SHEET N3.0 |
| 6 | NOT USED |
| 7 | NOT USED |
| 8 | NOT USED |
| 9 | DOWNSPOUT SEE DETAIL 8/A5.5 FOR ATTACHMENT |
| 10 | ROOM ID AND ISA SIGNAGE (BY OTHER) SEE DETAILS 5 & 9/N4.0 - TYP |
| 11 | 5/8" PLYWOOD SIDING FINISH - SEE A5.5 |
| 11A | 1x4 TRIM |
| 11B | 22 GA. CORNER FLASHING |
| 12 | 1x8 TRIM |
| 13 | NOT USED |
| 14 | EXTERIOR LIGHT - SEE ELECTRICAL |
| 15 | NOT USED |
| 16 | NOT USED |
| 17 | NOT USED |
| 18 | GUTTER - SEE ATTACHMENT DETAIL 5/A2.2 AT STANDING SEAM ROOFING |
| 19 | MODULAR IDENTIFICATION TAG +90" ABOVE A.F.F. |
| 20 | NOT USED |
| 21 | WP/G.F.C.I. @ HVAC UNITS - REFER TO ELECTRICAL PLANS |
| 22 | DUAL SLOPE OPTION |
| 23 | HVAC UNIT |

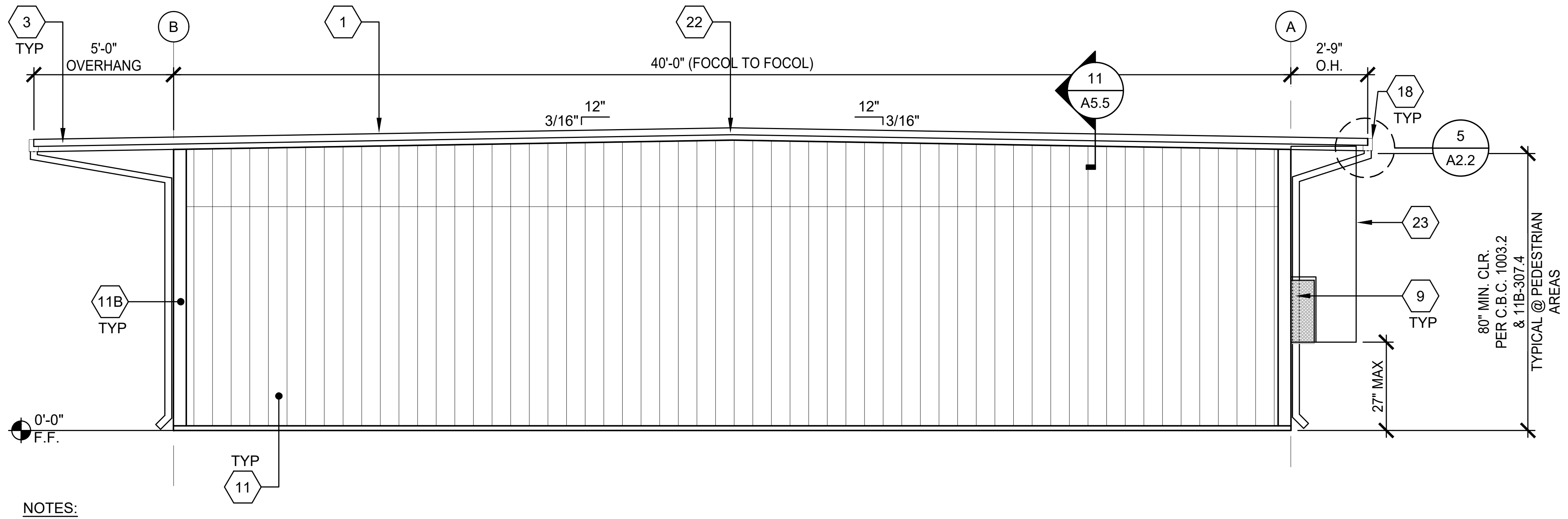
## KEY NOTES

| BUILDING SIZE SCHEDULE | | | |
|---|---|---|---|
| BUILDING SIZE (FT) | TOTAL # OF 12'-0" WIDE MODULES | TOTAL # OF CENTER MODULES | OVERALL BUILDING WIDTH[1] |
| ☐ 24'x40' | 2 | 0 | 23'-8½" |
| ☒ 36'x40' | 3 | 1 | 35'-6¾" |
| ☐ 48'x40' | 4 | 2 | 47'-5" |
| ☐ 60'x40' | 5 | 3 | 59'-3¼" |
| ☐ 72'x40' | 6 | 4 | 71'-1½" |
| ☐ 84'x40' | 7 | 5 | 82'-11¾" |
| ☐ 96'x40' | 8 | 6 | 94'-10" |
| ☐ 108'x40' | 9 | 7 | 106'-8¼" |
| ☐ 120'x40' | 10 | 8 | 118'-6½" |

NOTES:

1. TOTAL BUILDING WIDTH INCLUDES ¼" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEET S1.1

## BUILDING SIZE SCHEDULE

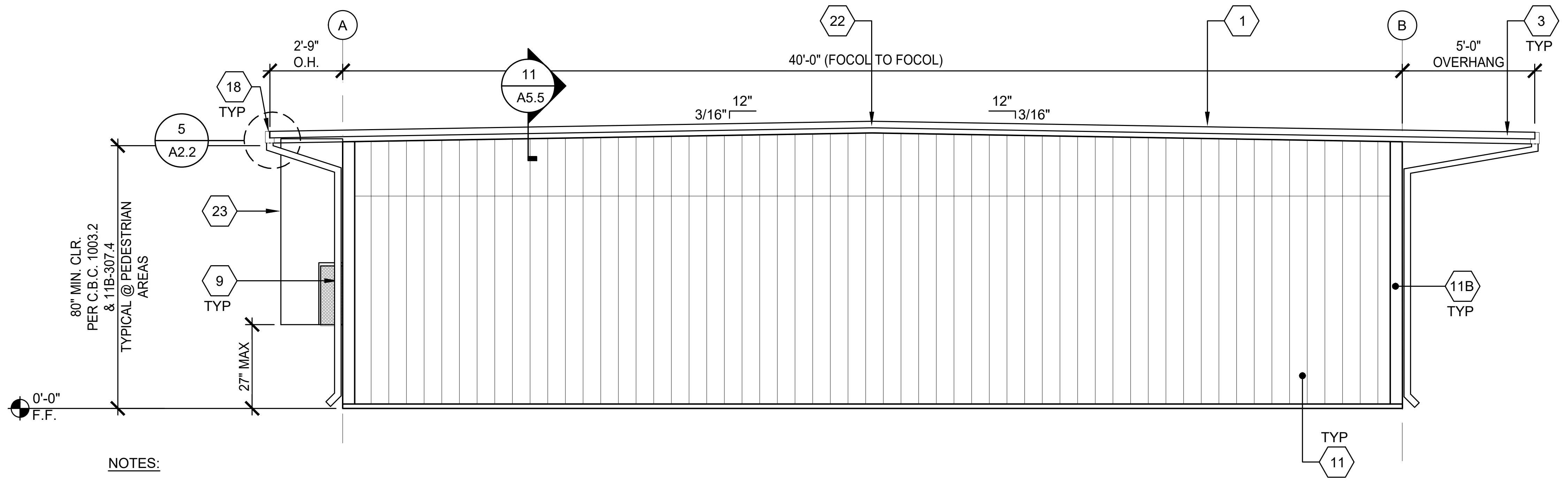


NOTES:

1. FOR ITEMS NOT NOTED, SEE "TYPICAL" ELEVATION SHOWN ABOVE.
2. IF DISTANCE FROM WALKING SURFACE TO LOWEST PART OF HVAC IS MORE THAN 27", PROTECTIVE GUARDS SHALL BE INSTALLED (BY OWNER) CIRCULATION PATH LOCATIONS (11B-307.2).

## SIDE EXTERIOR ELEVATION

SCALE: 1/4" = 1'-0" 3



NOTES:

1. FOR ITEMS NOT NOTED, SEE "TYPICAL" ELEVATION SHOWN ABOVE.
2. IF DISTANCE FROM WALKING SURFACE TO LOWEST PART OF HVAC IS MORE THAN 27", PROTECTIVE GUARDS SHALL BE INSTALLED (BY OWNER) CIRCULATION PATH LOCATIONS (11B-307.2).

## SIDE EXTERIOR ELEVATION

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

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24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
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FORM®

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(11) 36'X40' BUILDINGS

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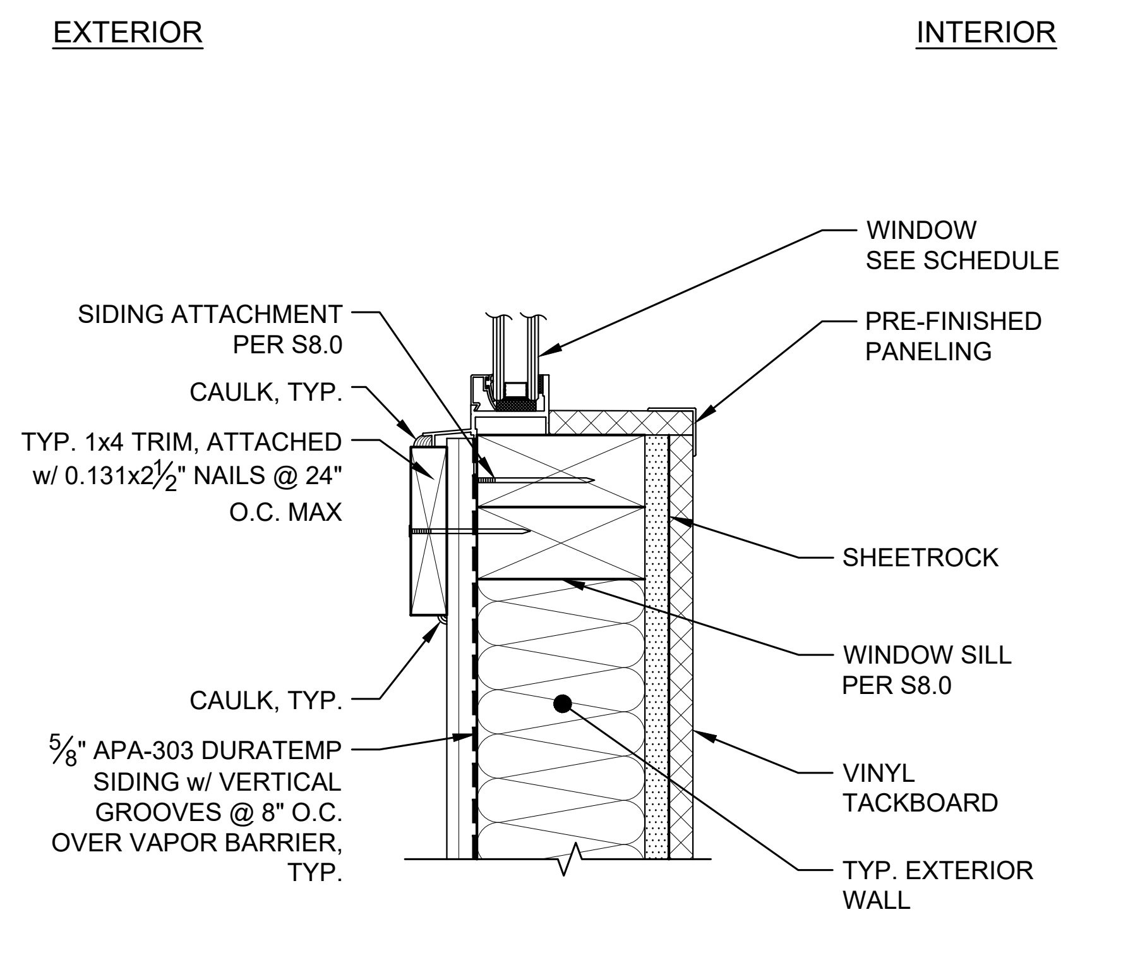
DRAWN BY: AV
SCALE: AS NOTED
DATE: 10/03/2026
PROJECT NO: 2003-26

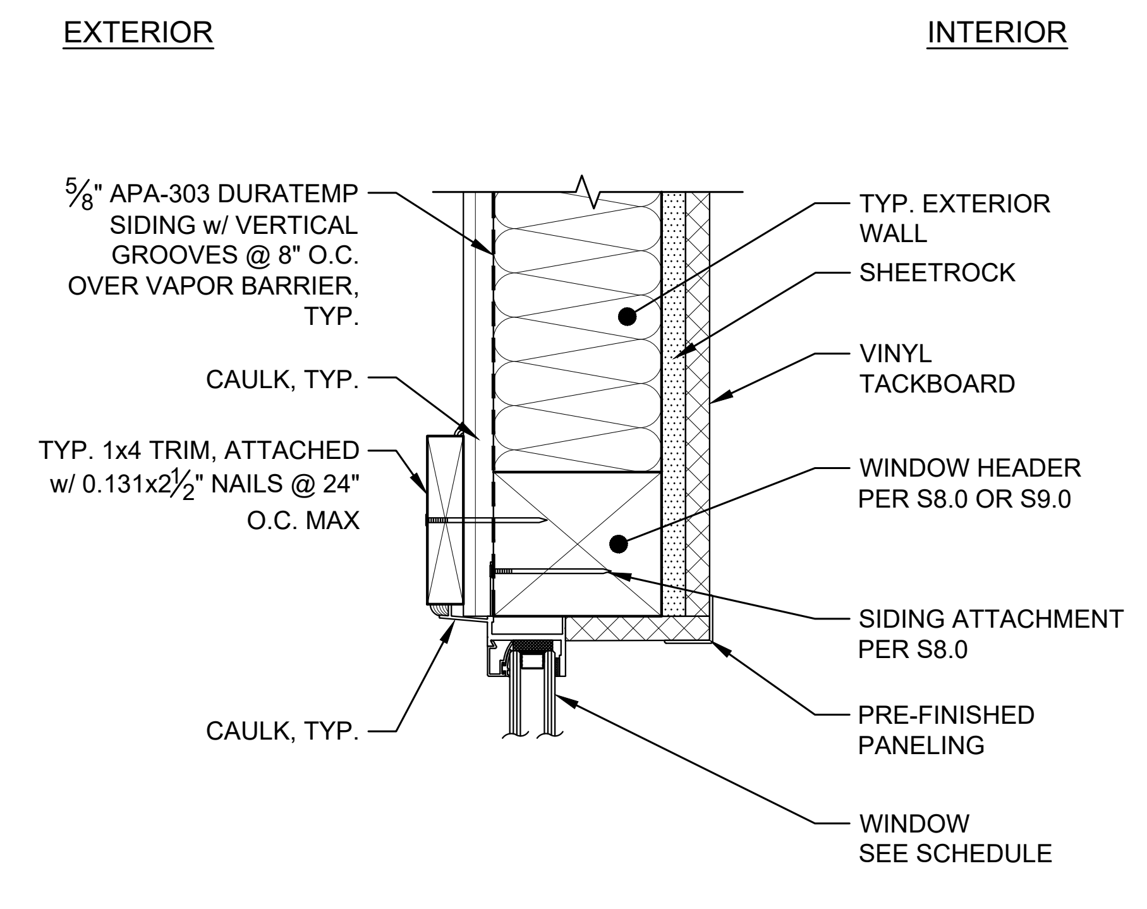
SHEET TITLE:
EXTERIOR
ELEVATIONS -
DURATEMP 303 OPTION

SHEET NUMBER:
A5.4


EXTERIOR
INTERIOR
WINDOW SEE SCHEDULE
SIDING ATTACHMENT PER S8.0
PRE-FINISHED PANELING
CAULK, TYP.
TYP. 1x4 TRIM, ATTACHED w/ 0.131x2½" NAILS @ 24" O.C. MAX
SHEETROCK
WINDOW SILL PER S8.0
CAULK, TYP.
5/8" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER, TYP.
VINYL TACKBOARD
TYP. EXTERIOR WALL

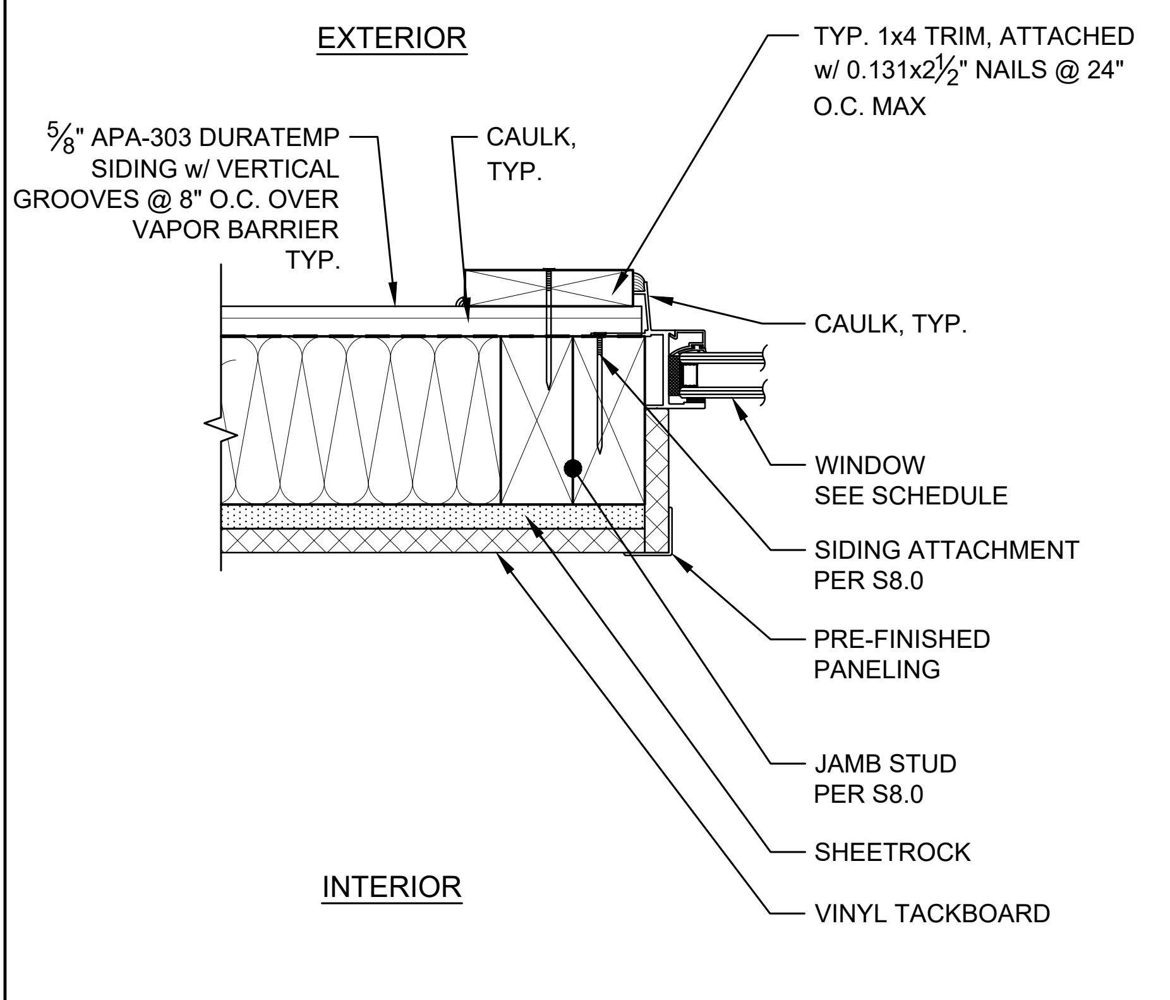
## TYPICAL WINDOW SILL

SCALE: 3" = 1'-0" | 1


EXTERIOR
INTERIOR
5/8" 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
WINDOW HEADER PER S8.0 OR S9.0
SIDING ATTACHMENT PER S8.0
CAULK, TYP.
PRE-FINISHED PANELING
WINDOW SEE SCHEDULE

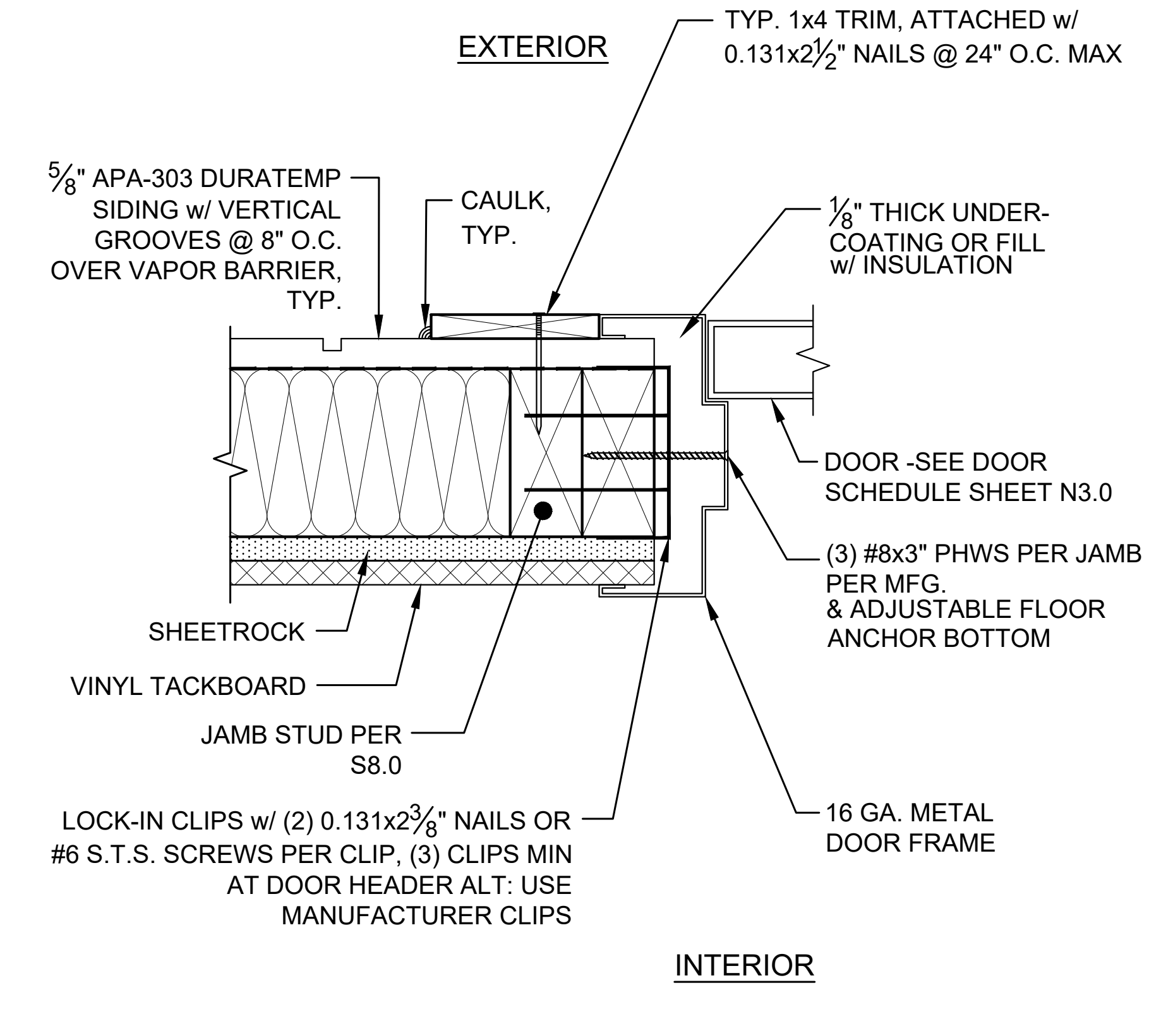
## TYPICAL WINDOW HEADER

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


EXTERIOR
TYP. 1x4 TRIM, ATTACHED w/ 0.131x2½" NAILS @ 24" O.C. MAX
5/8" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER TYP.
CAULK, TYP.
CAULK, TYP.
WINDOW SEE SCHEDULE
SIDING ATTACHMENT PER S8.0
PRE-FINISHED PANELING
JAMB STUD PER S8.0
SHEETROCK
INTERIOR
VINYL TACKBOARD

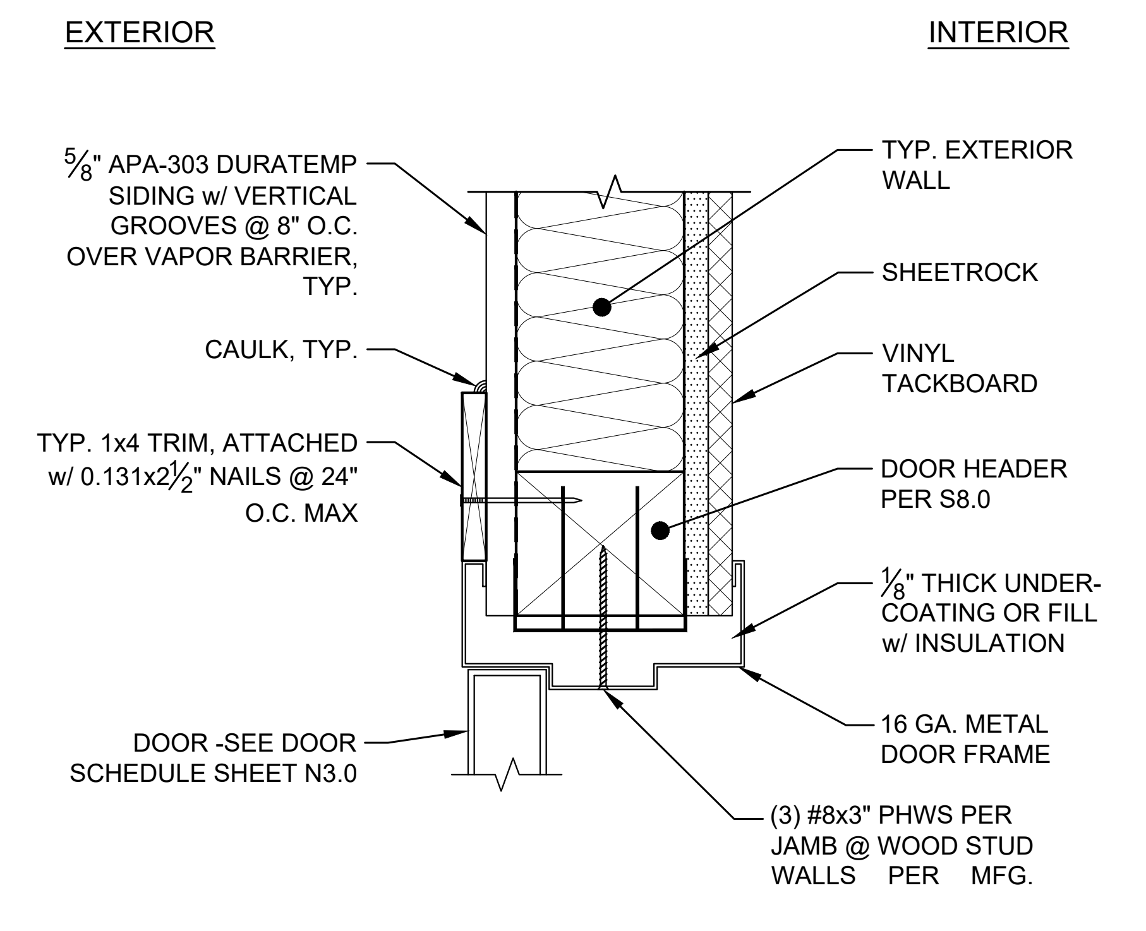
## TYPICAL WINDOW JAMB

SCALE: 3" = 1'-0" | 3


EXTERIOR
TYP. 1x4 TRIM, ATTACHED w/ 0.131x2½" NAILS @ 24" O.C. MAX
5/8" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER, TYP.
CAULK, TYP.
1/8" THICK UNDER-COATING OR FILL w/ INSULATION
DOOR -SEE DOOR SCHEDULE SHEET N3.0
SHEETROCK
(3) #8x3" PHWS PER JAMB PER MFG. & ADJUSTABLE FLOOR ANCHOR BOTTOM
VINYL TACKBOARD
JAMB STUD PER S8.0
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
16 GA. METAL DOOR FRAME
INTERIOR

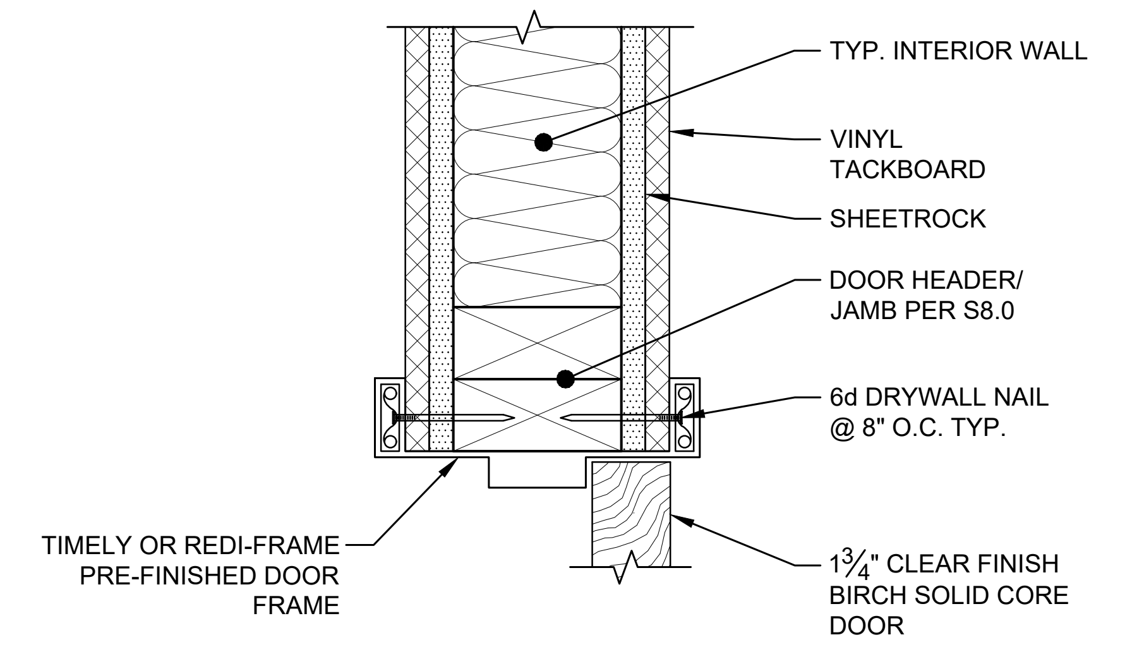
## TYPICAL DOOR JAMB

SCALE: 3" = 1'-0" | 4


EXTERIOR
INTERIOR
5/8" 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
DOOR HEADER PER S8.0
1/8" THICK UNDER-COATING OR FILL w/ INSULATION
16 GA. METAL DOOR FRAME
DOOR -SEE DOOR SCHEDULE SHEET N3.0
(3) #8x3" PHWS PER JAMB @ WOOD STUD WALLS PER MFG.

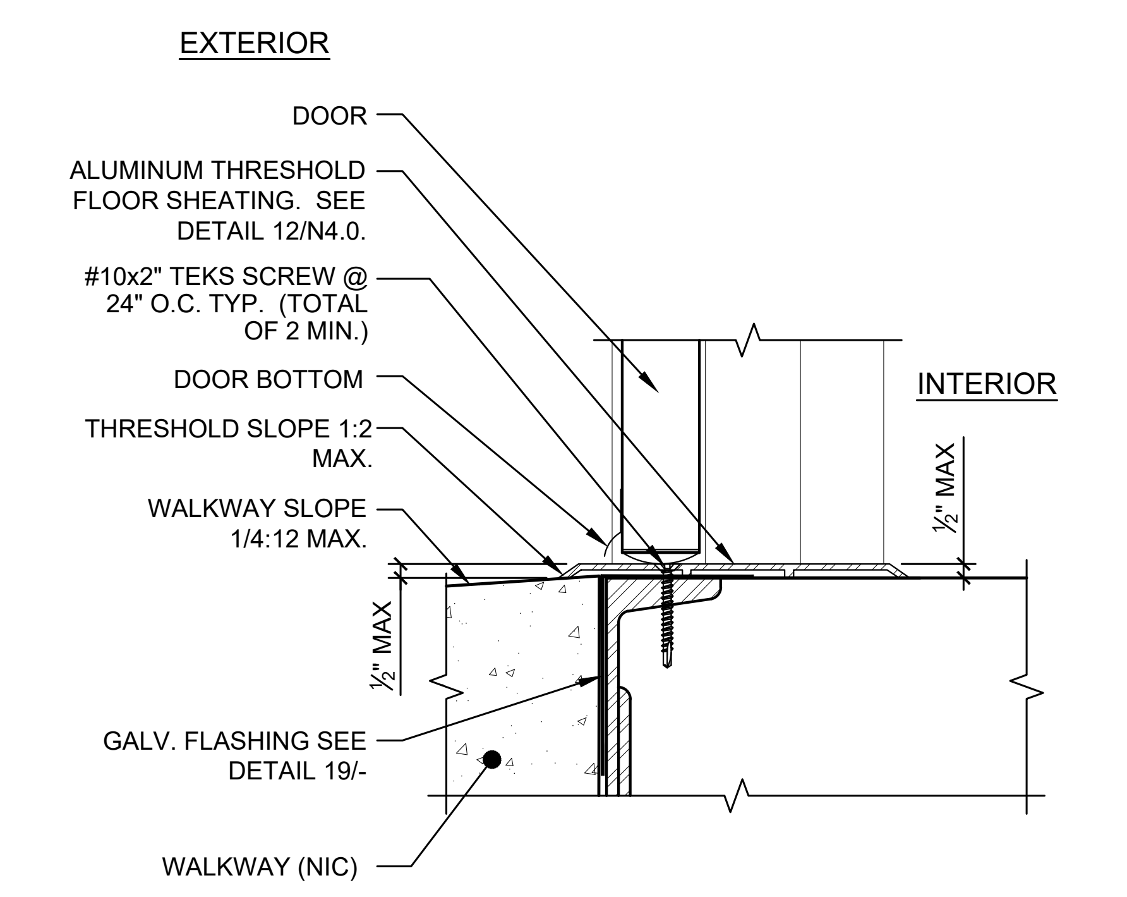
## TYPICAL DOOR HEADER

SCALE: 3" = 1'-0" | 5


TYP. INTERIOR WALL
VINYL TACKBOARD
SHEETROCK
DOOR HEADER/ JAMB PER S8.0
6d DRYWALL NAIL @ 8" O.C. TYP.
TIMELY OR REDI-FRAME PRE-FINISHED DOOR FRAME
1¾" CLEAR FINISH BIRCH SOLID CORE DOOR

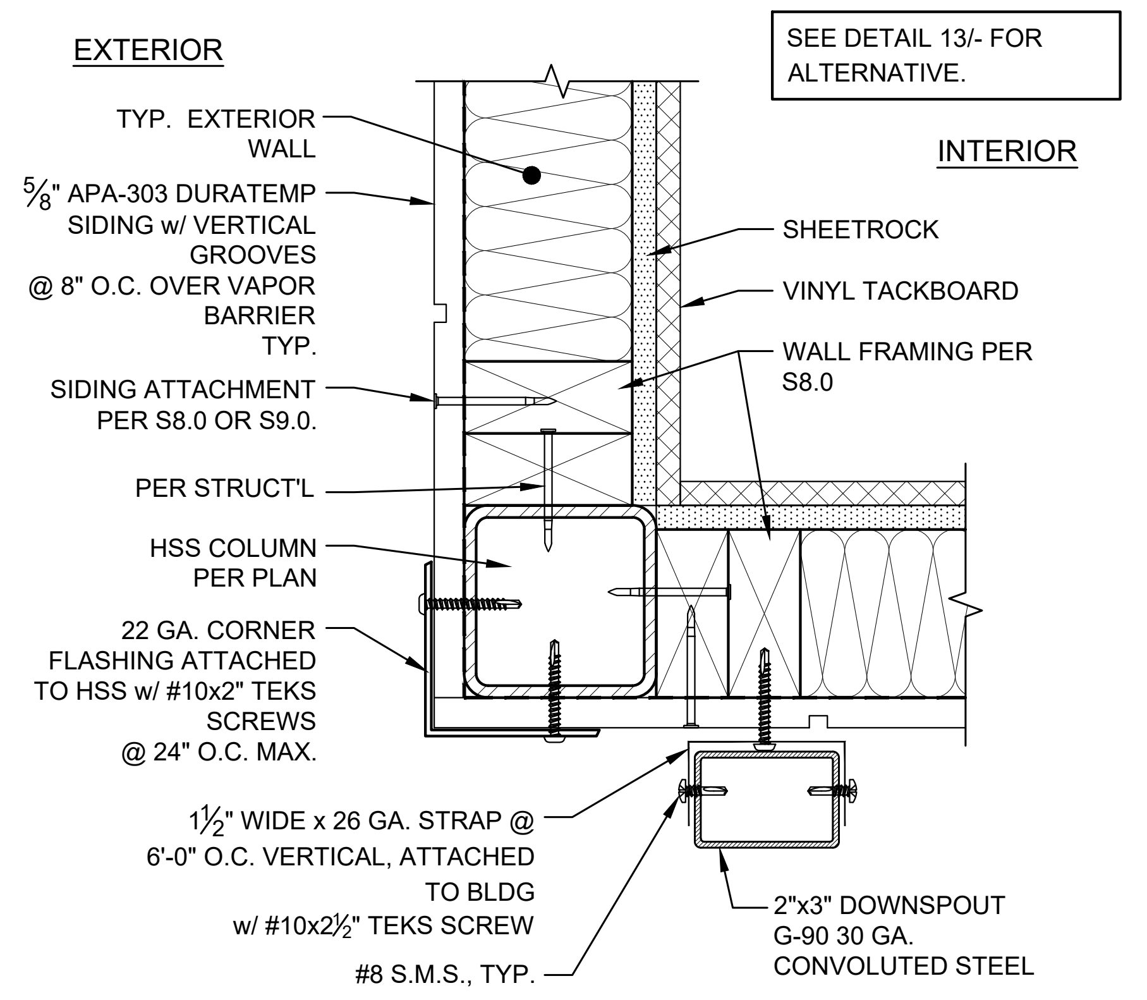
## TYP. INTERIOR DOOR HEADER/JAMB

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.)
INTERIOR
DOOR BOTTOM
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

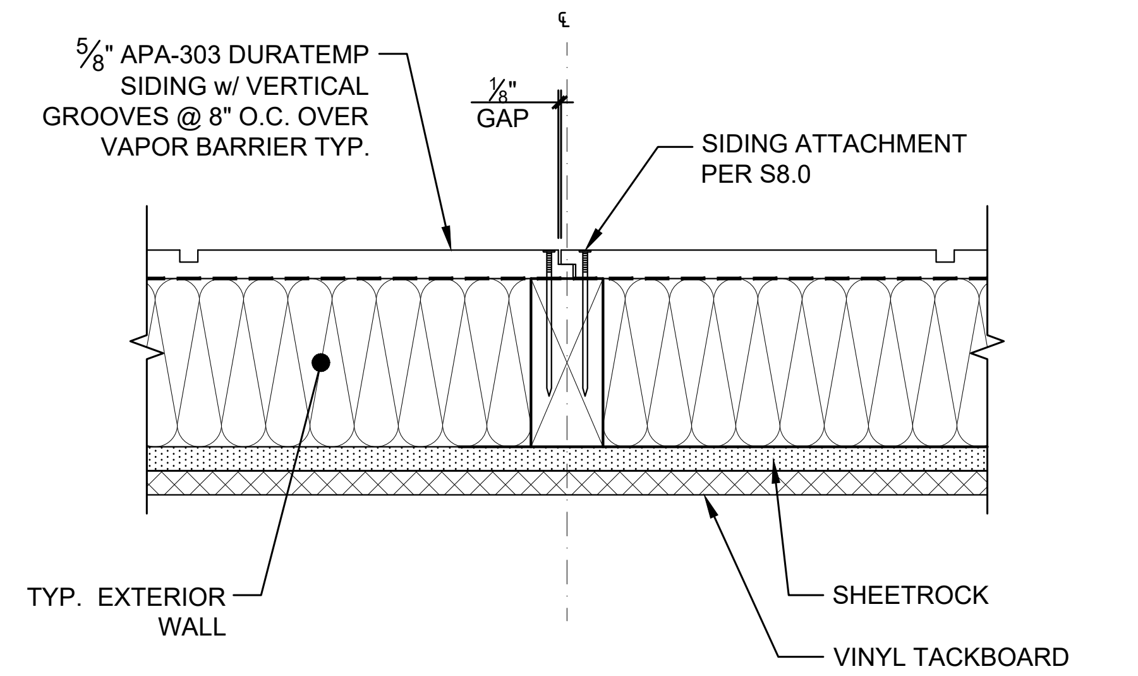

EXTERIOR
SEE DETAIL 13/- FOR ALTERNATIVE.
INTERIOR
TYP. EXTERIOR WALL
5/8" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER TYP.
SHEETROCK
VINYL TACKBOARD
WALL FRAMING PER S8.0
SIDING ATTACHMENT PER S8.0 OR S9.0.
PER STRUCT'L
HSS COLUMN PER PLAN
22 GA. CORNER FLASHING ATTACHED 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
#8 S.M.S., TYP.
2"x3" DOWNSPOUT G-90 30 GA. CONVOLUTED STEEL

## TYP. BLDG CORNER & DOWNSPOUT ATTACHMENT DETAIL

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

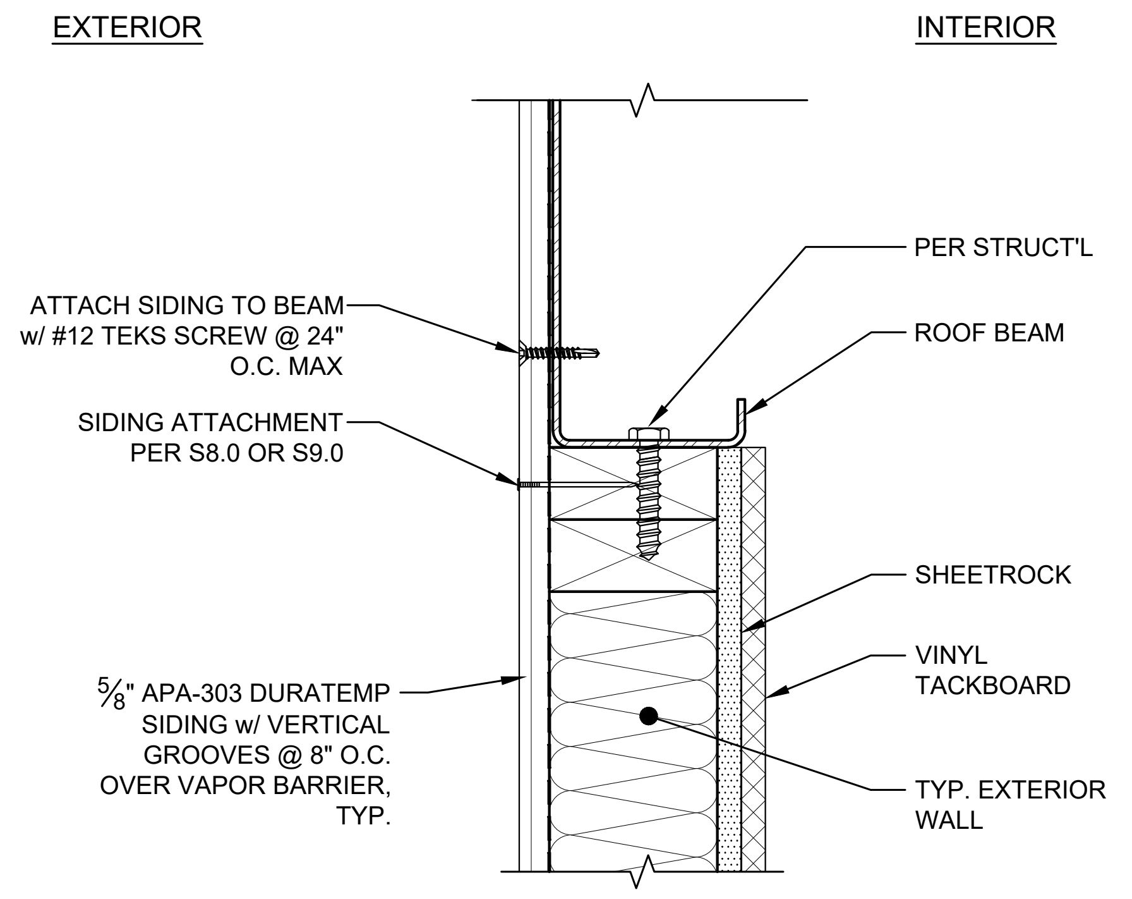
## NOT USED

9


5/8" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER TYP.
½" GAP
SIDING ATTACHMENT PER S8.0
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
VINYL TACKBOARD
5/8" APA-303 DURATEMP SIDING w/ VERTICAL GROOVES @ 8" O.C. OVER VAPOR BARRIER, TYP.
TYP. EXTERIOR WALL

## SIDING DETAIL @ ROOF BEAM

SCALE: 3" = 1'-0" | 11

## NOT USED

12

## NOT USED

13

NOTES:

1. REFER TO SHEET A7.3 FOR ALL BUILDING INSULATION INSTALLATION NOT SHOWN OR NOTED ON DETAIL ON THIS SHEET.
2. FLASHING SHALL BE PROVIDED PER DETAIL 19/-.
3. DURATEMP SPECIFICATIONS - 7', 8', 9' & 10' X 4' HARDBOARDS, GRADES APA & PS 1 SPECIFICATIONS - 4", 8" GROOVE PATTERNS. FLAME SPREAD INDEX OF 126.2 (ALLOWABLE 75-200). FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CBC SECTION 720. NAILING SHALL BE 0.131"Ø GALV. NAILS @ 6" O.C. E.N. AND 12" O.C. F.N. (ALL EDGES BLOCKED)

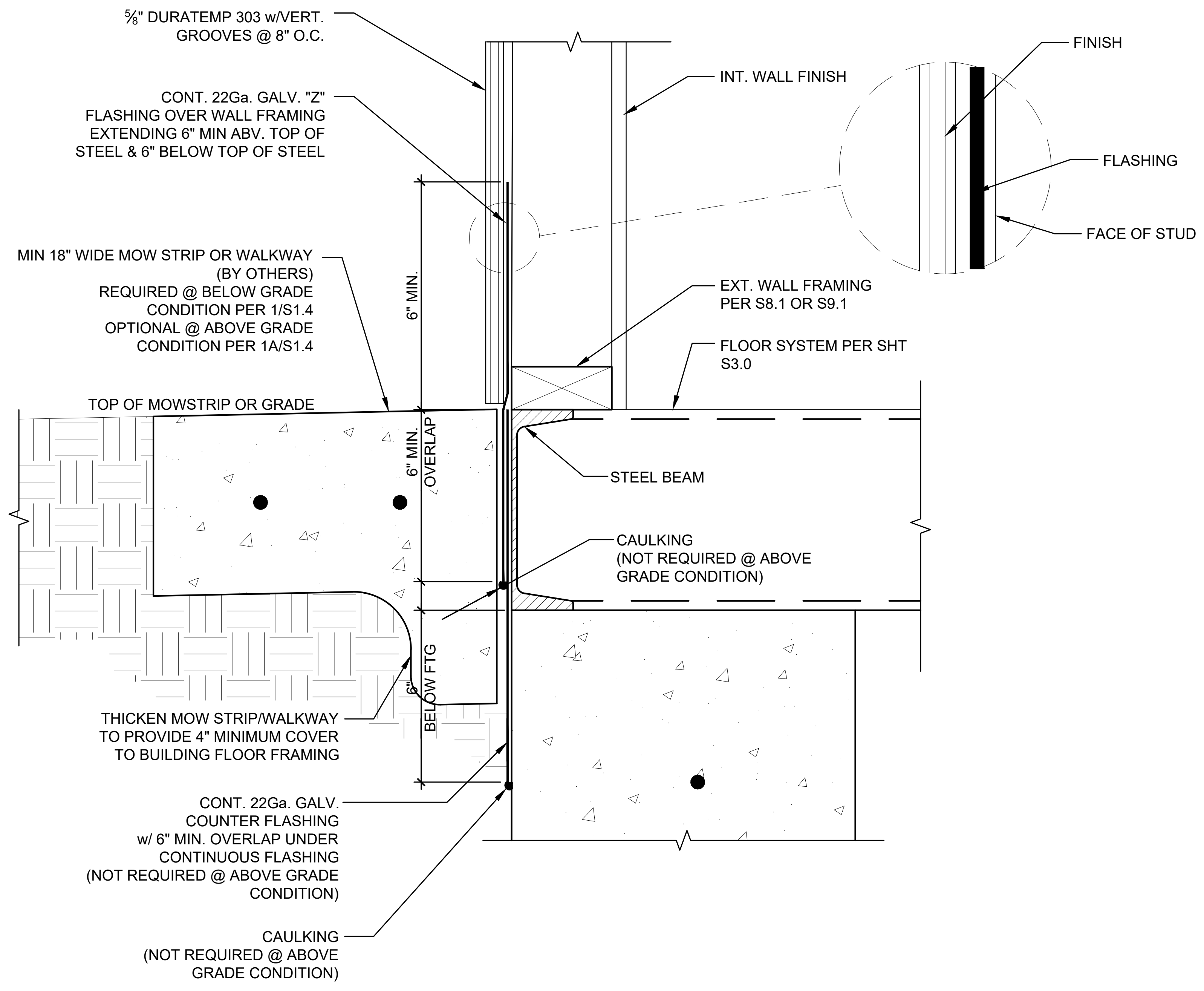
## SHEET NOTES

## NOT USED

17

## NOT USED

18


5/8" DURATEMP 303 w/VERT. GROOVES @ 8" O.C.
FINISH
INT. WALL 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
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: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)

FORM

SITE SPECIFIC PROJECT NAME

.
.
.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

No. C12631
Ren. 3-31-27

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

REVISIONS

| |
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| △1 |
| △2 |
| △3 |
| △4 |

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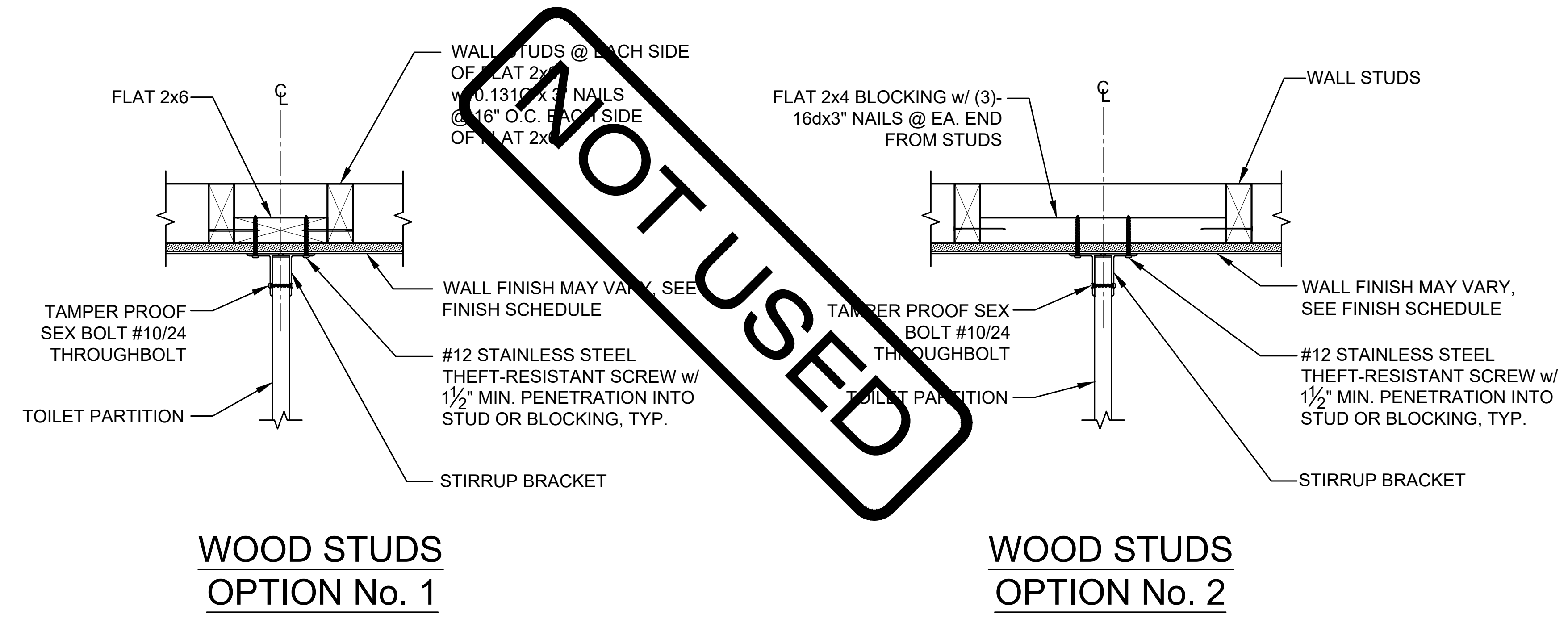
|---|---|
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-XX |

SHEET TITLE:

TYP. ARCHITECTURAL DETAILS
- DURATEMP 303
SIDING OPTION

SHEET NUMBER:

A5.5

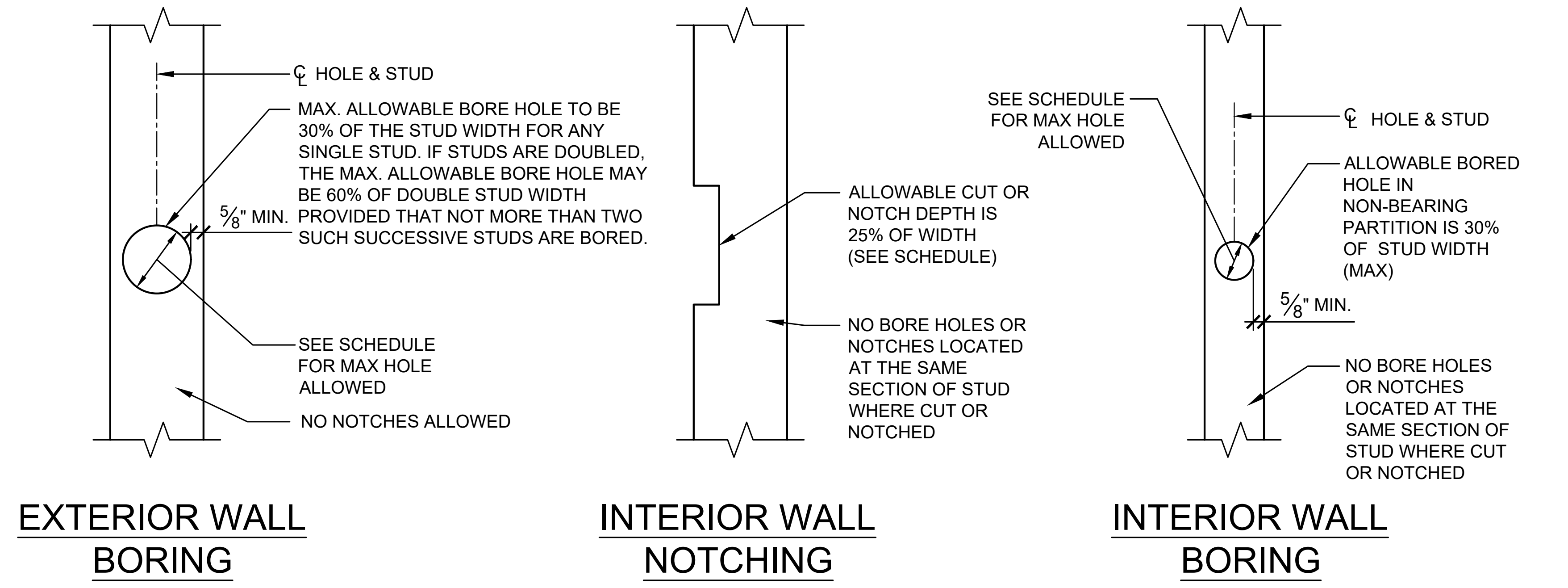


NOT USED
FLAT 2x6
℄
WALL STUDS @ EACH SIDE OF FLAT 2x6 w/ 0.131Ø x 3" NAILS @ 16" O.C. EACH SIDE OF FLAT 2x6
TAMPER PROOF SEX BOLT #10/24 THROUGHBOLT
TOILET PARTITION
WALL FINISH MAY VARY, SEE FINISH SCHEDULE
#12 STAINLESS STEEL THEFT-RESISTANT SCREW w/ 1½" MIN. PENETRATION INTO STUD OR BLOCKING, TYP.
STIRRUP BRACKET
WOOD STUDS OPTION No. 1
FLAT 2x4 BLOCKING w/ (3)-16dx3" NAILS @ EA. END FROM STUDS
WALL STUDS
WALL FINISH MAY VARY, SEE FINISH SCHEDULE
TAMPER PROOF SEX BOLT #10/24 THROUGHBOLT
TOILET PARTITION
#12 STAINLESS STEEL THEFT-RESISTANT SCREW w/ 1½" MIN. PENETRATION INTO STUD OR BLOCKING, TYP.
STIRRUP BRACKET
WOOD STUDS OPTION No. 2

## TOILET PARTITION ANCHORAGE BLOCKING DETAILS @ WALL

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

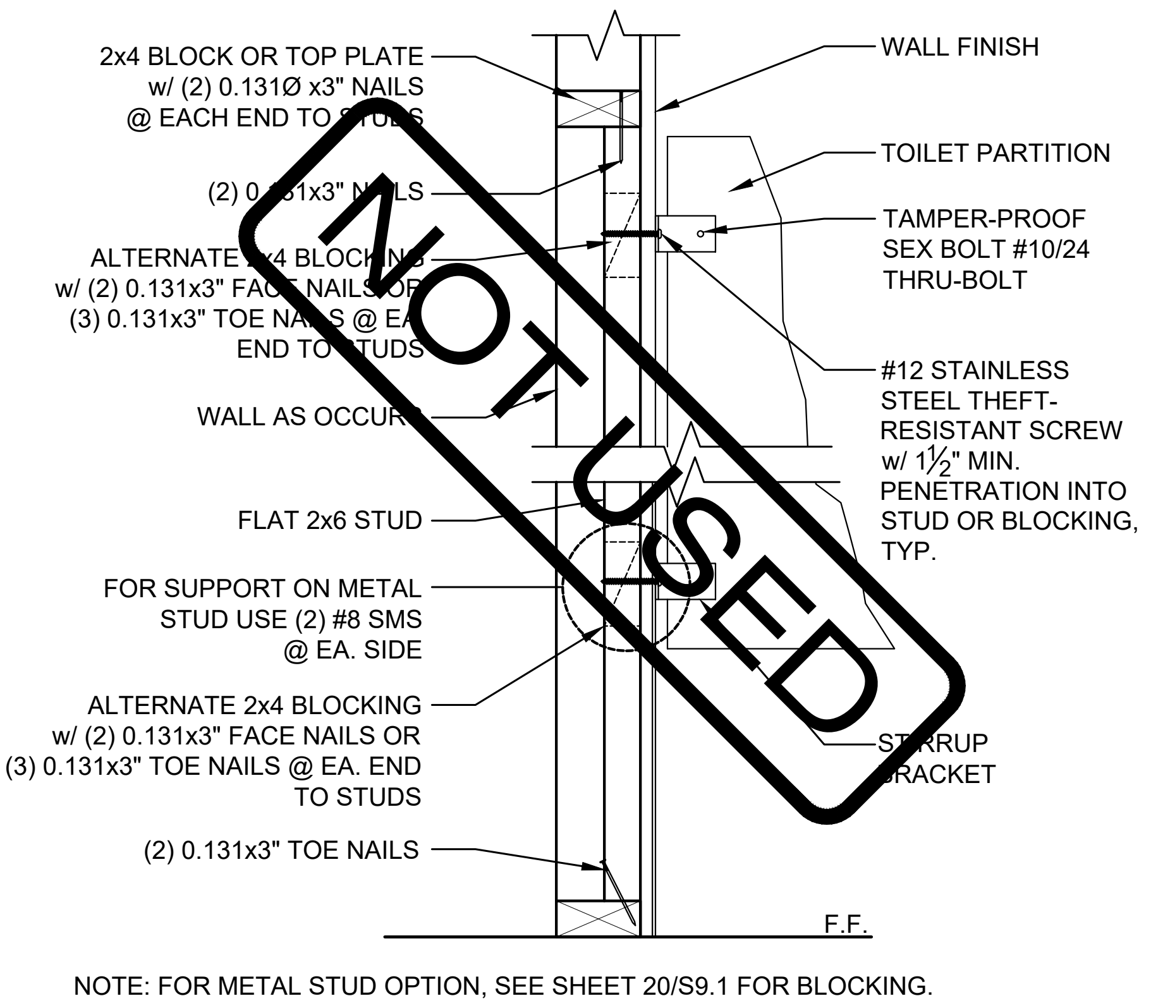
| NOTCH & BORING SCHEDULE | | | | |
|---|---|---|---|---|
| | NOMINAL STUD SIZE | ACTUAL STUD DEPTH | MAX NOTCH DEPTH | MAX BORED HOLE DIAMETER |
| EXTERIOR WALL | 2x6 | 5½" | NOT PERMITTED | 1" |
| | 2x8 | 7¼" | 1½" | 1¾" |
| INTERIOR WALL | 2x4 | 3½" | NOT PERMITTED | ¾" |
| | 2x6 | 5½" | ¾" | 1½" |
| | 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
EXTERIOR WALL BORING
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
INTERIOR WALL NOTCHING
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
INTERIOR WALL BORING

## STUD NOTCHING AND BORING DETAILS

NOT TO SCALE 2

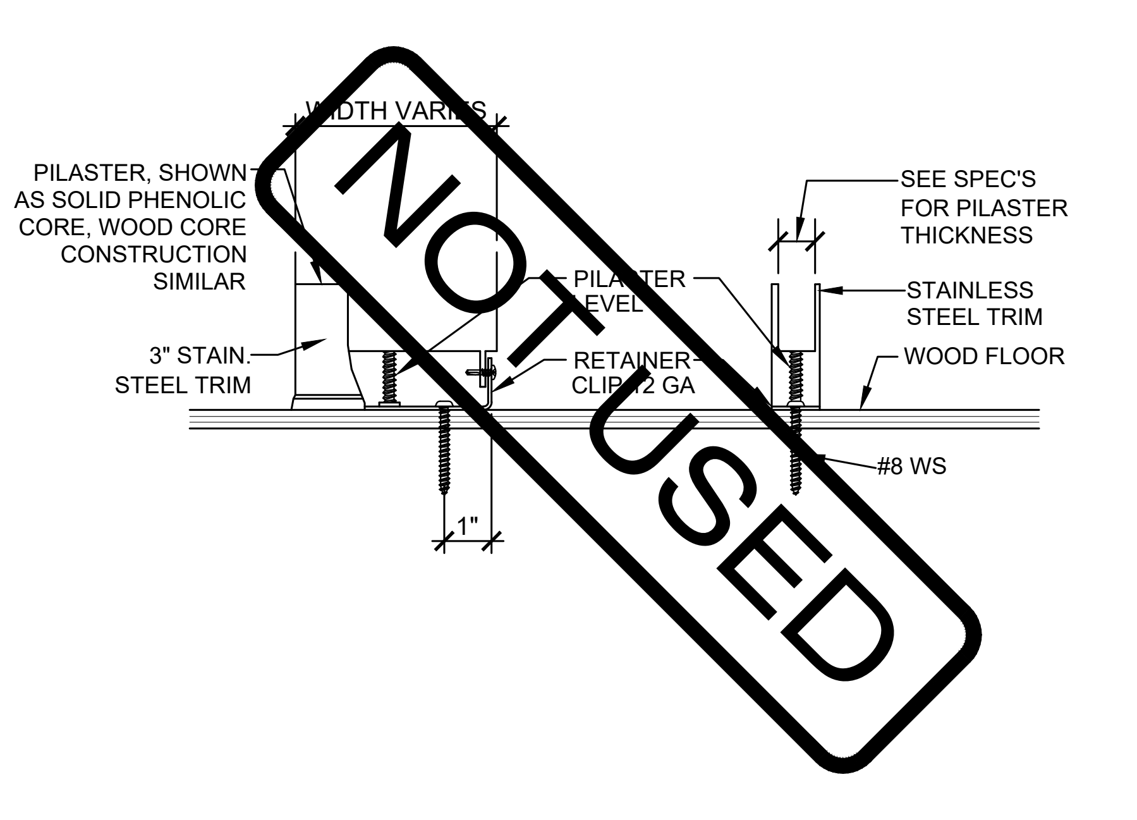


NOT USED
2x4 BLOCK OR TOP PLATE w/ (2) 0.131Ø x3" NAILS @ EACH END TO STUDS
(2) 0.131x3" NAILS
ALTERNATE 2x4 BLOCKING w/ (2) 0.131x3" FACE NAILS OR (3) 0.131x3" TOE NAILS @ EA. END TO STUDS
WALL AS OCCURS
FLAT 2x6 STUD
FOR SUPPORT ON METAL STUD USE (2) #8 SMS @ EA. SIDE
ALTERNATE 2x4 BLOCKING w/ (2) 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.

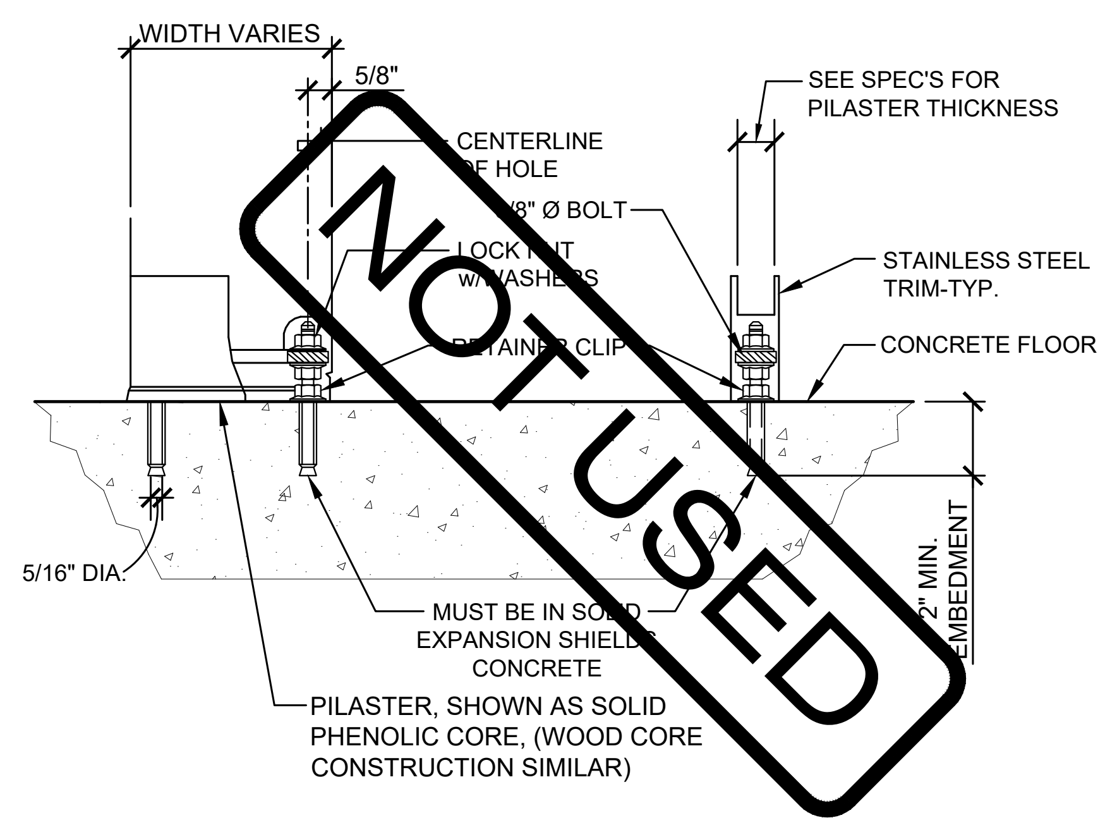
## TOILET PARTITION WALL BLOCKING

NOT TO SCALE 3



## PARTITION TO WOOD FLOOR

NOT TO SCALE 4

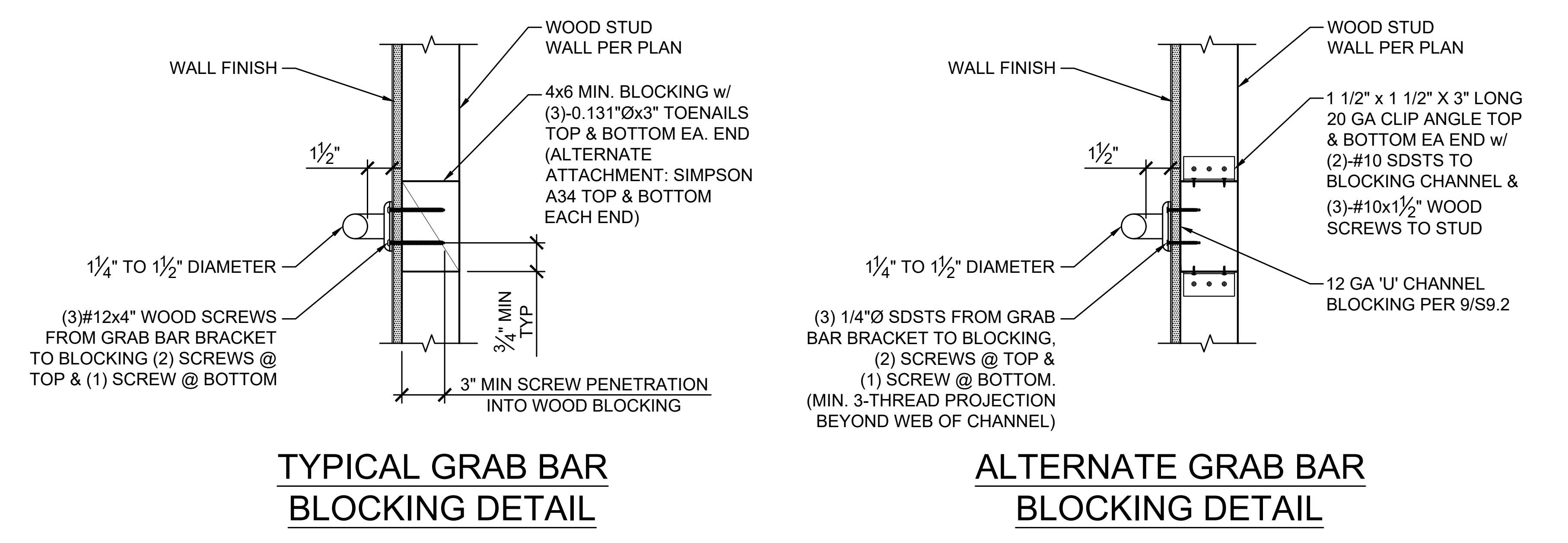


NOT USED
WIDTH VARIES
5/8"
CENTERLINE OF HOLE
3/8" Ø BOLT
LOCK NUT W/ WASHERS
RETAINER CLIP
SEE SPEC'S FOR PILASTER THICKNESS
STAINLESS STEEL TRIM-TYP.
CONCRETE FLOOR
5/16" DIA.
MUST BE IN SOLID EXPANSION SHIELD CONCRETE
2" MIN. EMBEDMENT
PILASTER, SHOWN AS SOLID PHENOLIC CORE, (WOOD CORE CONSTRUCTION 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.

## PARTITION TO CONCRETE FLOOR

NOT TO SCALE 5

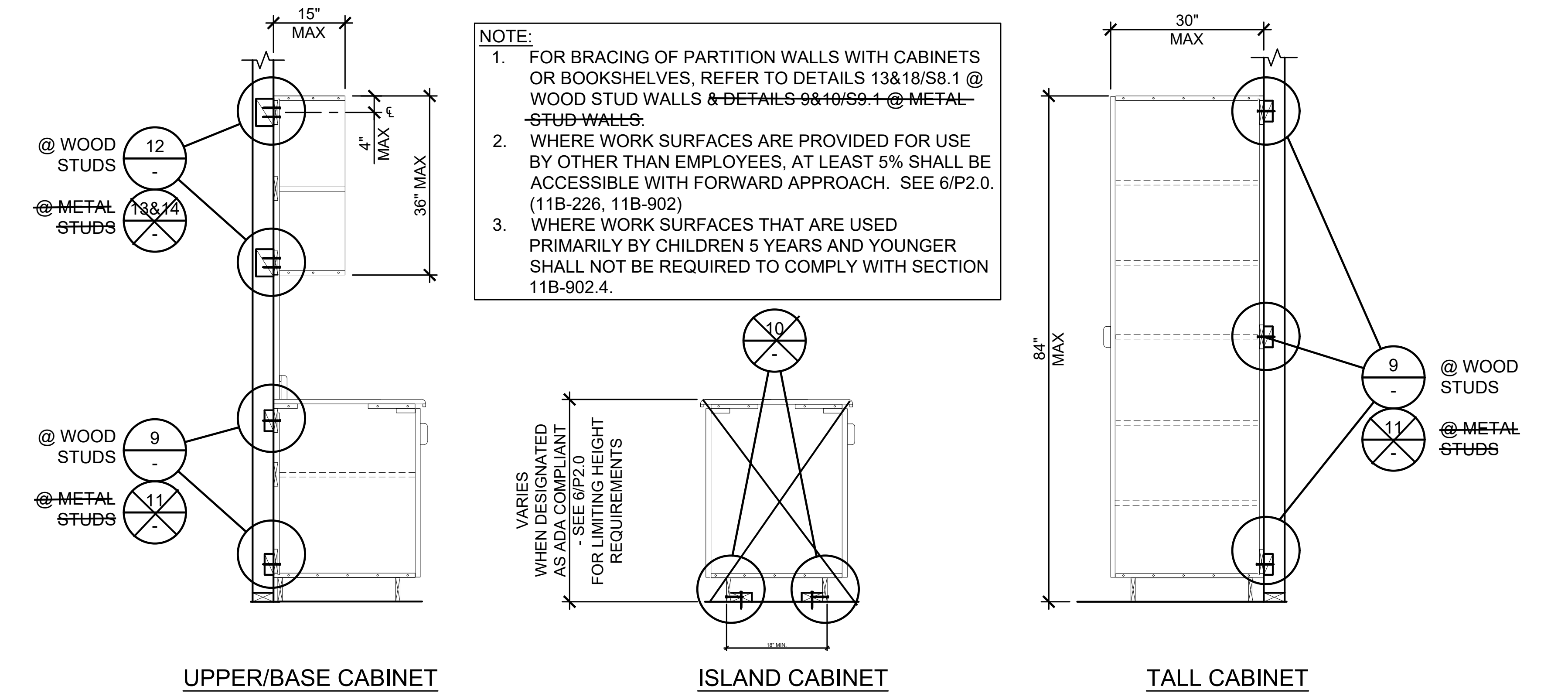


WALL FINISH
WOOD STUD WALL PER PLAN
4x6 MIN. BLOCKING w/ (3)-0.131"Øx3" TOENAILS TOP & BOTTOM EA. END (ALTERNATE ATTACHMENT: SIMPSON A34 TOP & BOTTOM EACH END)
1½"
1¼" TO 1½" DIAMETER
(3)#12x4" WOOD SCREWS FROM GRAB BAR BRACKET TO BLOCKING (2) SCREWS @ TOP & (1) SCREW @ BOTTOM
¾" MIN TYP
3" MIN SCREW PENETRATION INTO WOOD BLOCKING
TYPICAL GRAB BAR BLOCKING DETAIL
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
1½"
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
ALTERNATE GRAB BAR BLOCKING DETAIL

NOTE: FOR METAL STUD WALL OPTION, SEE DETAILS 9&10/S9.2.

## GRAB BAR BLOCKING DETAIL

SCALE: 1-1/2" = 1'-0" 6

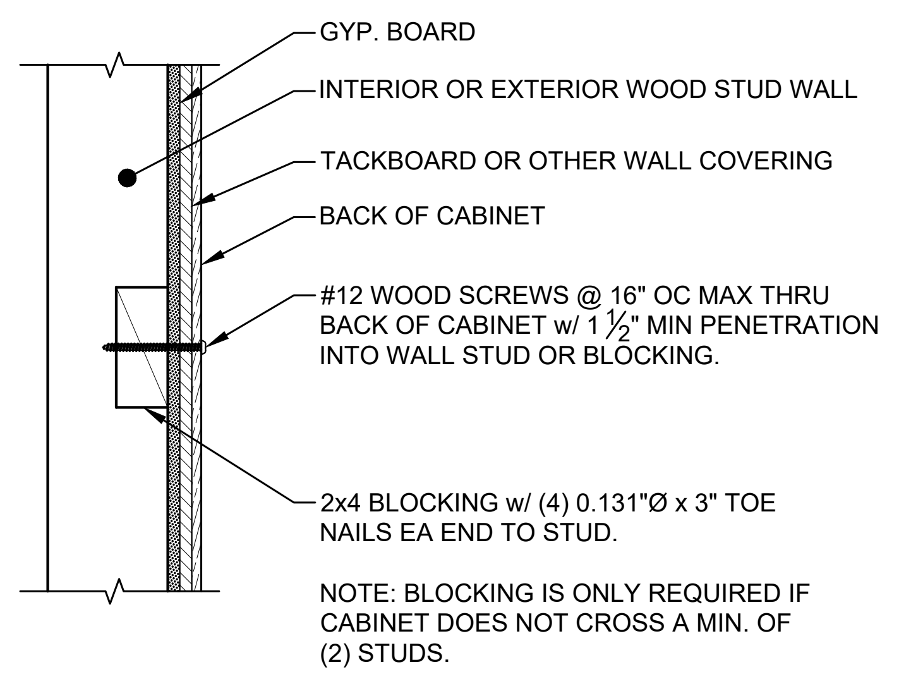


NOTE:

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.

## TYP. CABINET ATTACHMENT

NOT TO SCALE 8

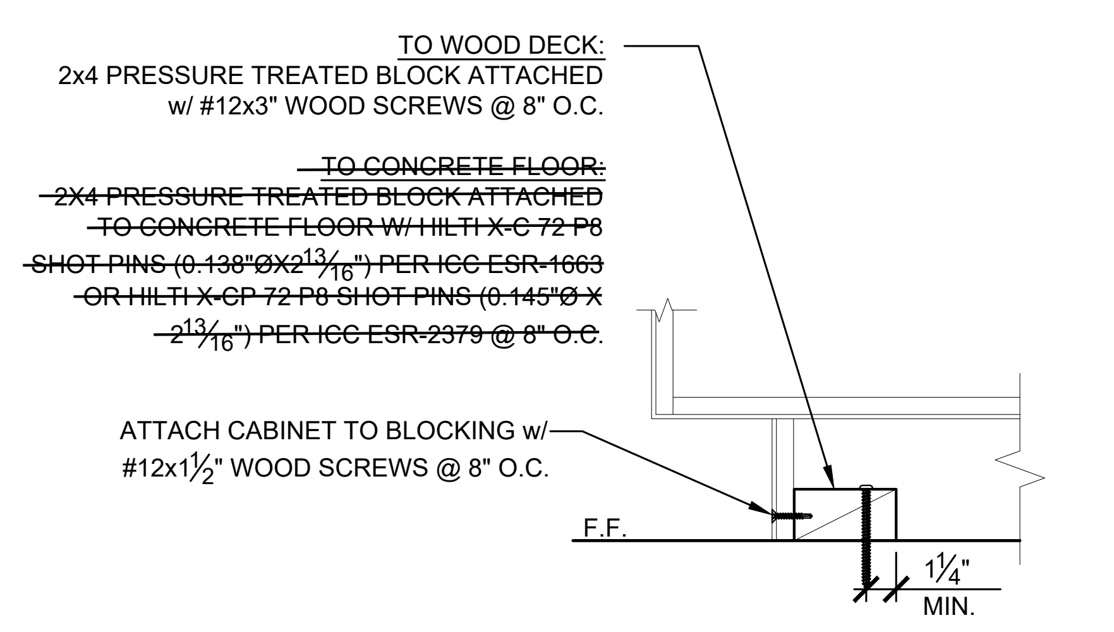


GYP. BOARD
INTERIOR OR EXTERIOR WOOD STUD WALL
TACKBOARD OR OTHER WALL COVERING
BACK OF CABINET
#12 WOOD SCREWS @ 16" OC MAX THRU BACK OF CABINET w/ 1½" MIN PENETRATION INTO WALL STUD OR BLOCKING.
2x4 BLOCKING w/ (4) 0.131"Ø x 3" TOE NAILS EA END TO STUD.
NOTE: BLOCKING IS ONLY REQUIRED IF CABINET DOES NOT CROSS A MIN. OF (2) STUDS.

NOTE: SEE 11/- FOR METAL STUD WALLS.

## FLOOR SUPPORTED CABINET ATTACHMENT @ WOOD STUD WALLS

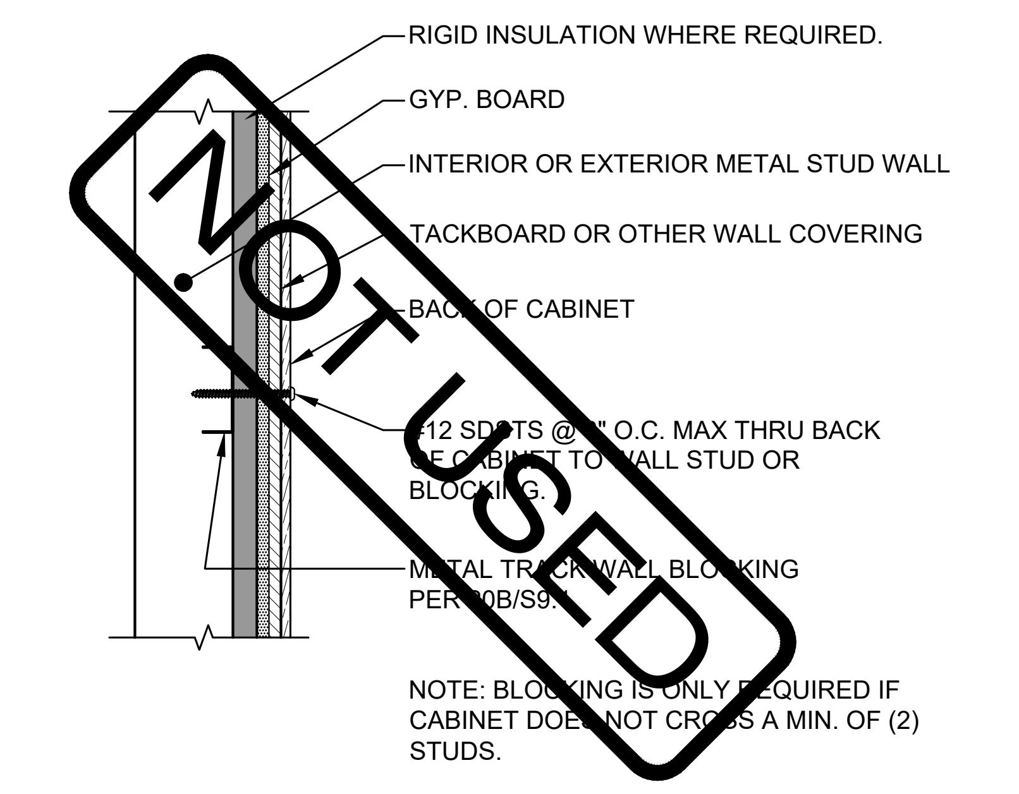
SCALE: 1-1/2" = 1'-0" 9



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"ØX2¹³⁄₁₆") PER ICC ESR-1663 OR HILTI X-CP 72 P8 SHOT PINS (0.145"Ø X 2¹³⁄₁₆") PER ICC ESR-2379 @ 8" O.C.~~
ATTACH CABINET TO BLOCKING w/ #12x1½" WOOD SCREWS @ 8" O.C.
F.F.
1¼" MIN.

## ISLAND CABINET ATTACHMENT @ FLOOR

SCALE: 1-1/2" = 1'-0" 10

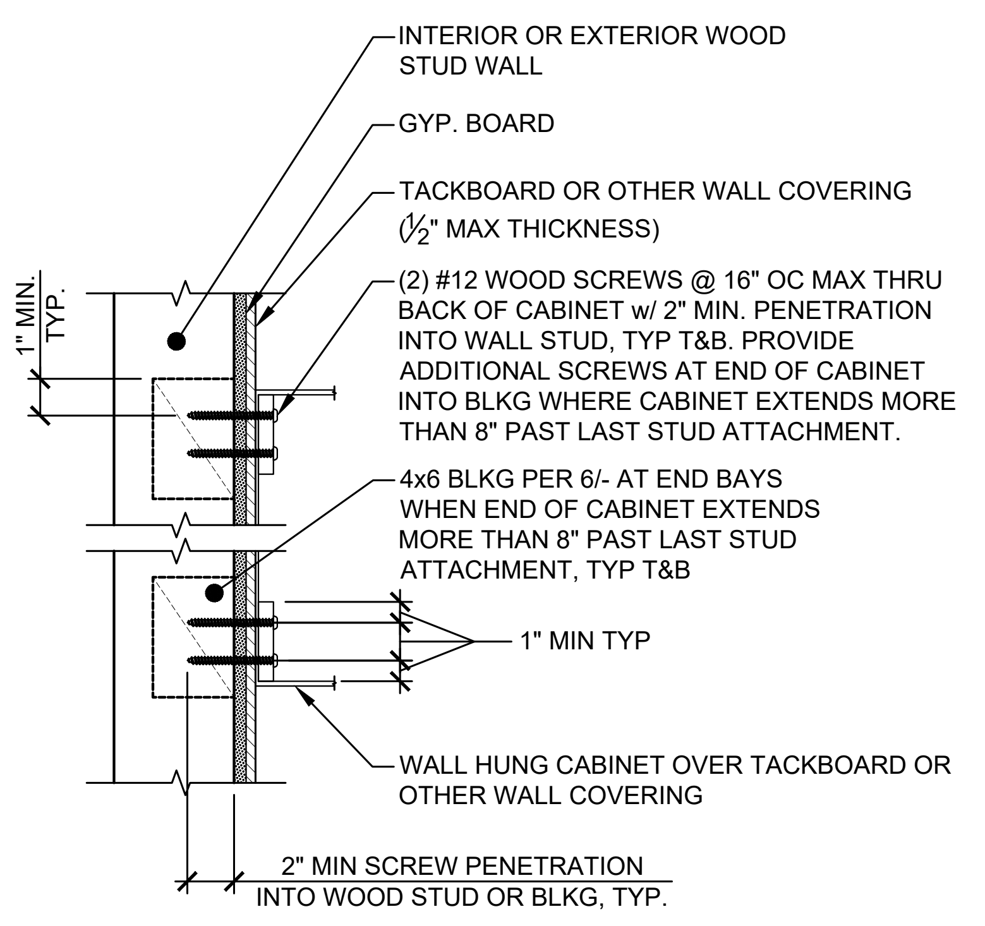


NOT USED
RIGID INSULATION WHERE REQUIRED.
GYP. BOARD
INTERIOR OR EXTERIOR METAL STUD WALL
TACKBOARD OR OTHER WALL COVERING
BACK OF CABINET
#12 SDSTS @ 16" O.C. MAX THRU BACK OF CABINET TO WALL STUD OR BLOCKING.
METAL TRACK WALL BLOCKING PER 20B/S9.1
NOTE: BLOCKING IS ONLY REQUIRED IF CABINET DOES NOT CROSS A MIN. OF (2) STUDS.

NOTE: SEE 9/- FOR WOOD STUD WALLS.

## FLOOR SUPPORTED CABINET ATTACHMENT @ METAL STUD WALLS

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

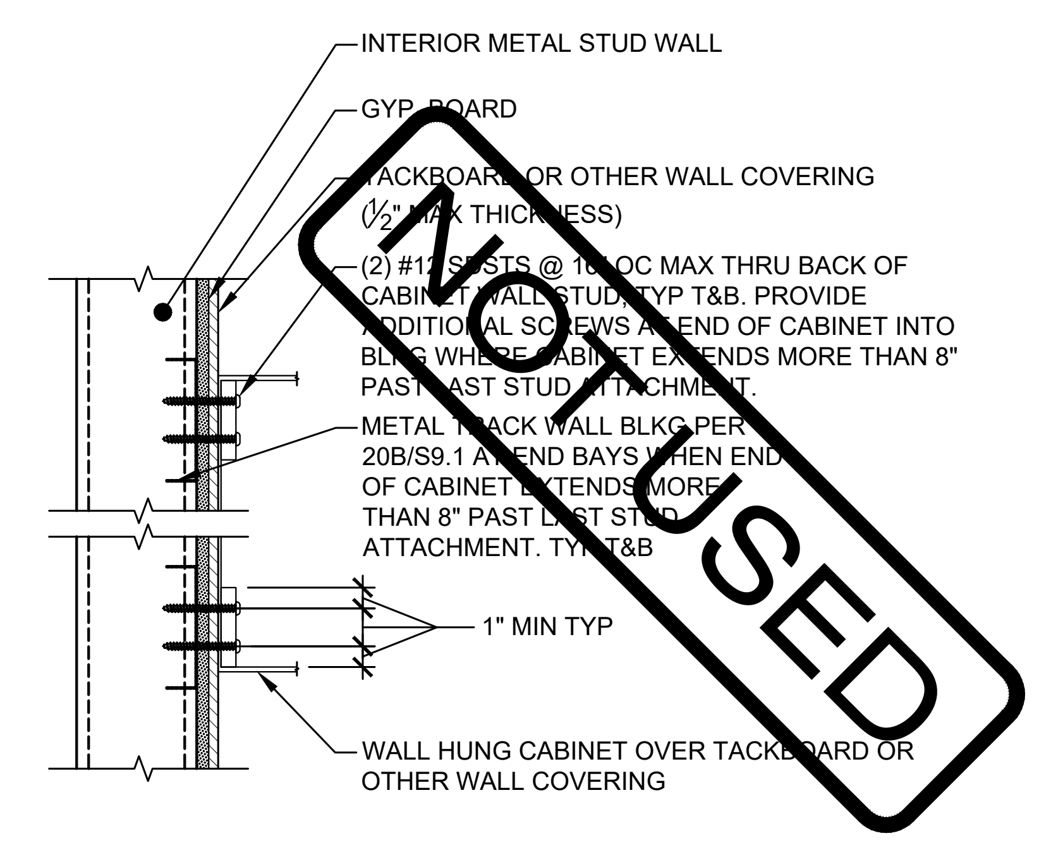


INTERIOR OR EXTERIOR WOOD STUD WALL
GYP. BOARD
TACKBOARD OR OTHER WALL COVERING (½" MAX THICKNESS)
(2) #12 WOOD SCREWS @ 16" OC MAX THRU BACK OF CABINET w/ 2" MIN. PENETRATION INTO WALL STUD, TYP T&B. PROVIDE ADDITIONAL SCREWS AT END OF CABINET INTO BLKG WHERE CABINET EXTENDS MORE THAN 8" PAST LAST STUD 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 @ WOOD STUD WALLS (INTERIOR & EXTERIOR WALLS)

SCALE: 1-1/2" = 1'-0" 12

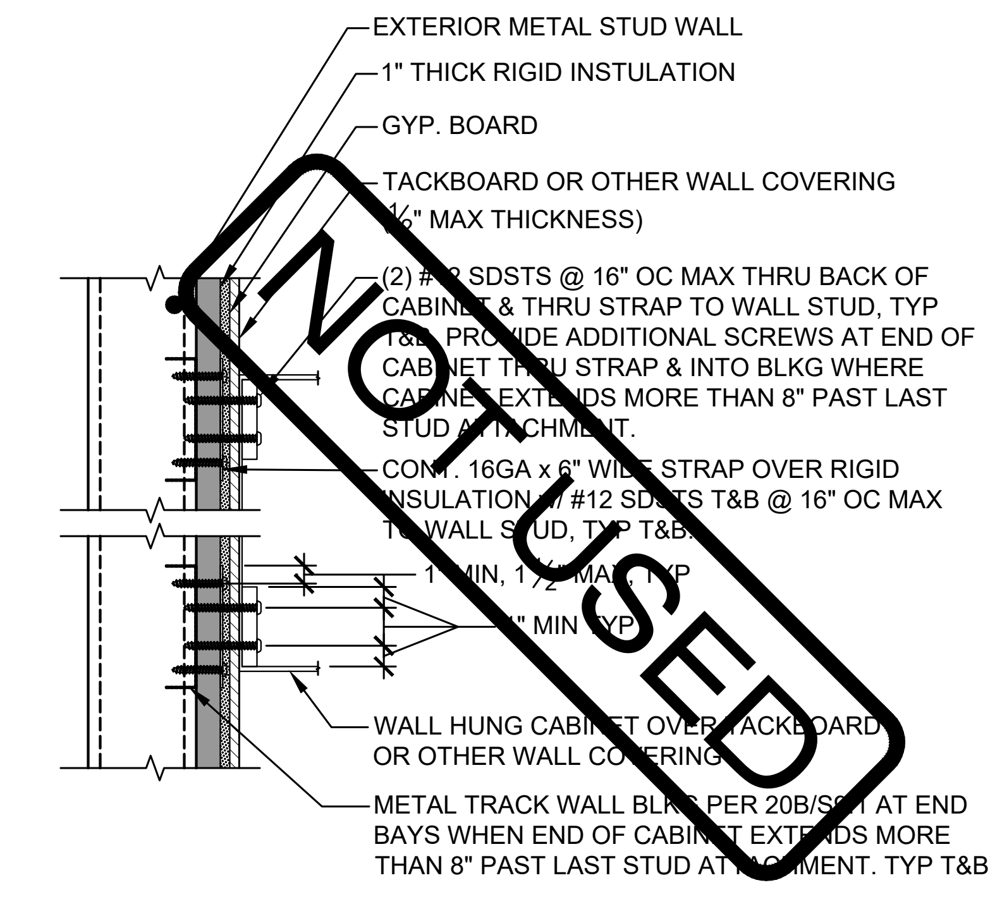


NOT USED
INTERIOR METAL STUD WALL
GYP. BOARD
TACKBOARD OR OTHER WALL COVERING (½" MAX THICKNESS)
(2) #12 SDSTS @ 16" OC MAX THRU BACK OF CABINET TO WALL STUD, TYP T&B. PROVIDE ADDITIONAL SCREWS AT END OF CABINET INTO BLKG WHERE CABINET EXTENDS MORE THAN 8" PAST LAST STUD ATTACHMENT.
METAL TRACK WALL 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 @ INTERIOR METAL STUD WALLS

SCALE: 1-1/2" = 1'-0" 13

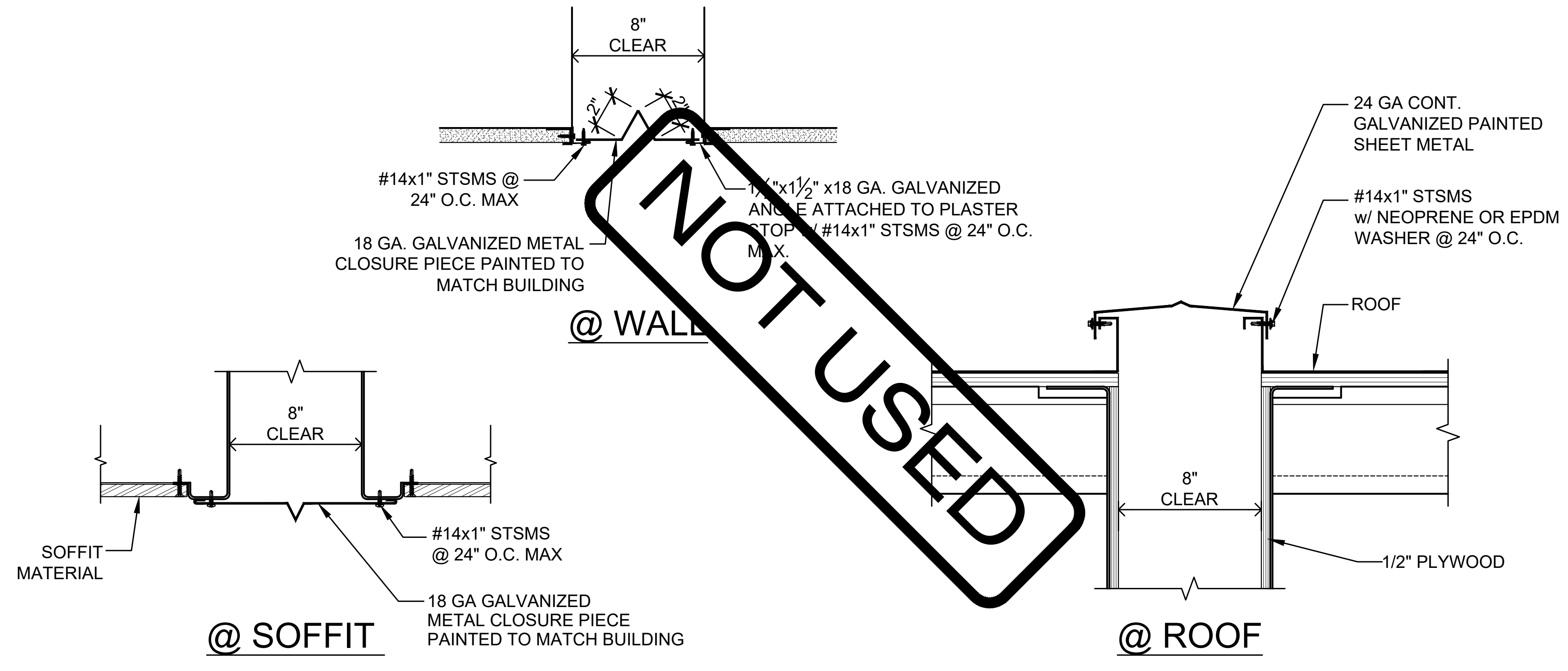


NOT USED
EXTERIOR METAL STUD WALL
1" THICK RIGID INSTULATION
GYP. BOARD
TACKBOARD OR OTHER WALL COVERING (½" MAX THICKNESS)
(2) #12 SDSTS @ 16" OC MAX THRU BACK OF CABINET & THRU STRAP TO WALL STUD, TYP T&B. PROVIDE ADDITIONAL SCREWS AT END OF CABINET THRU STRAP & INTO BLKG WHERE CABINET EXTENDS MORE 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" 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.

## WALL HUNG CABINET ATTACHMENT @ EXTERIOR METAL STUD WALLS

SCALE: 1-1/2" = 1'-0" 14



NOT USED
8" CLEAR
2"
#14x1" STSMS @ 24" O.C. MAX
18 GA. GALVANIZED METAL CLOSURE PIECE PAINTED TO MATCH BUILDING
1½"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

## SEISMIC CLOSURE DETAILS

15

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)

FORM®

SITE SPECIFIC PROJECT NAME

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.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122050 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 12/11/2023

☐ **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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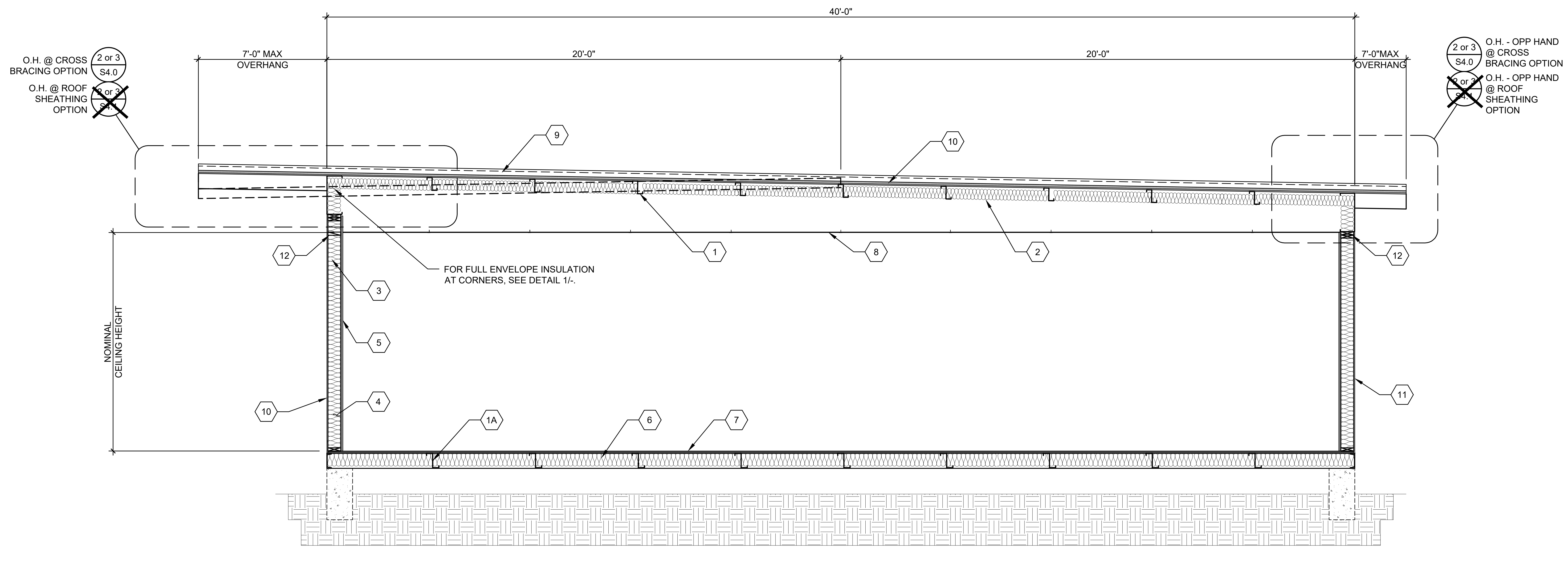
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

MISCELLANEOUS
ARCHITECTURAL DETAILS

SHEET NUMBER:

A7.1


40'-0"
7'-0" MAX OVERHANG
20'-0"
20'-0"
7'-0"MAX OVERHANG
O.H. @ CROSS BRACING OPTION
2 or 3
S4.0
O.H. @ ROOF SHEATHING OPTION
O.H. - OPP HAND @ CROSS BRACING OPTION
O.H. - OPP HAND @ ROOF SHEATHING OPTION
FOR FULL ENVELOPE INSULATION AT CORNERS, SEE DETAIL 1/-.
NOMINAL CEILING HEIGHT
1
1A
2
3
4
5
6
7
8
9
10
11
12

TYP. LONGITUDINAL SECTION - MONO/DUAL PITCH

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

| | |
|---|---|
| 1 | ROOF PURLINS PER ROOF FRAMING PLAN |
| 1A | FLOOR JOISTS PER FLOOR FRAMING PLAN |
| 2 | BATT ROOF INSULATION PER 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)~~<br>~~OR~~ STEEL CROSS BRACING WITHOUT RIGID ROOF INSULATION (S4.0) |
| 11 | EXTERIOR WALL FINISH PER EXTERIOR ELEVATIONS<br>~~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~~ |

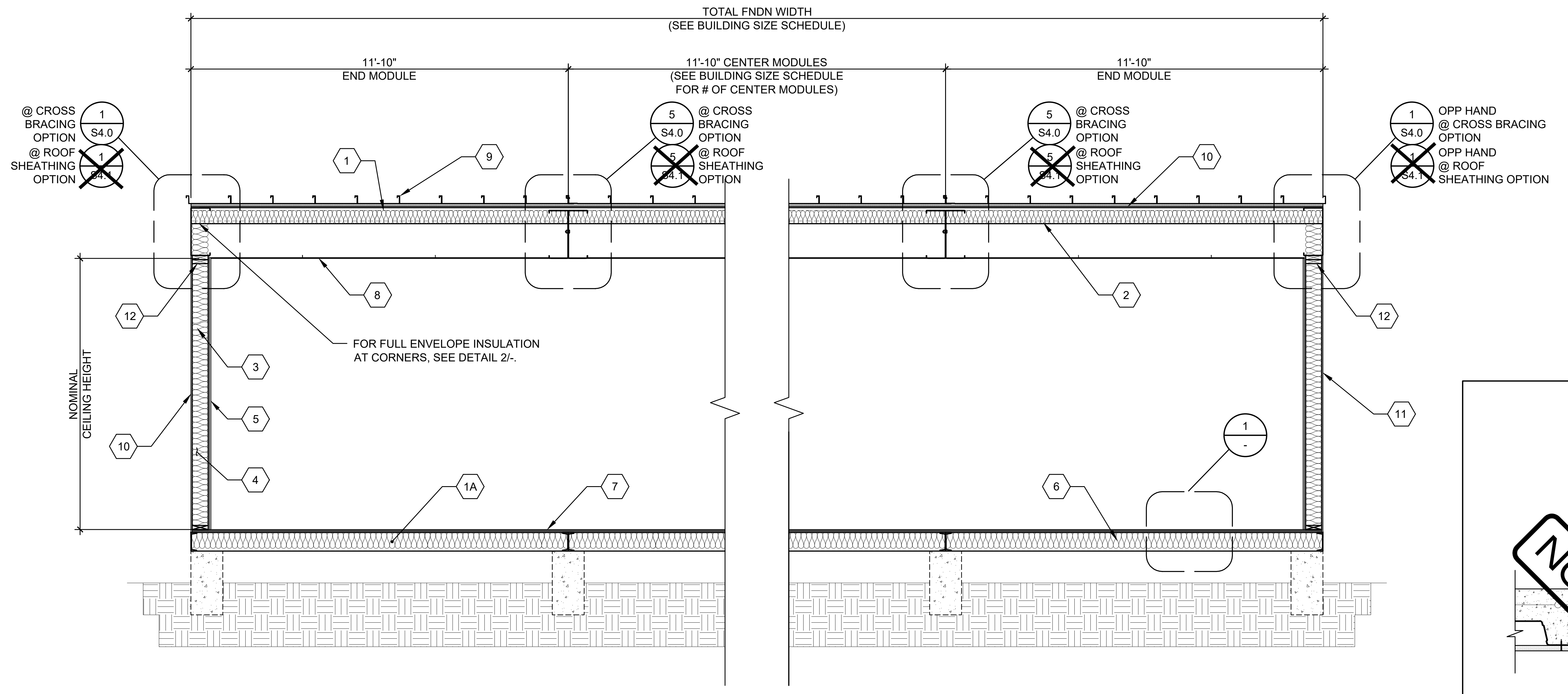
## KEY NOTES

| BUILDING SIZE SCHEDULE | | | |
|---|---|---|---|
| BUILDING SIZE (FT) | TOTAL # OF 12'-0" WIDE MODULES | TOTAL # OF CENTER MODULES | OVERALL BUILDING WIDTH[1] |
| ☐ 24'x40' | 2 | 0 | 23'-8½" |
| ☒ 36'x40' | 3 | 1 | 35'-6¾" |
| ☐ 48'x40' | 4 | 2 | 47'-5" |
| ☐ 60'x40' | 5 | 3 | 59'-3¼" |
| ☐ 72'x40' | 6 | 4 | 71'-1½" |
| ☐ 84'x40' | 7 | 5 | 82'-11¾" |
| ☐ 96'x40' | 8 | 6 | 94'-10" |
| ☐ 108'x40' | 9 | 7 | 106'-8¼" |
| ☐ 120'x40' | 10 | 8 | 118'-6½" |

NOTES:

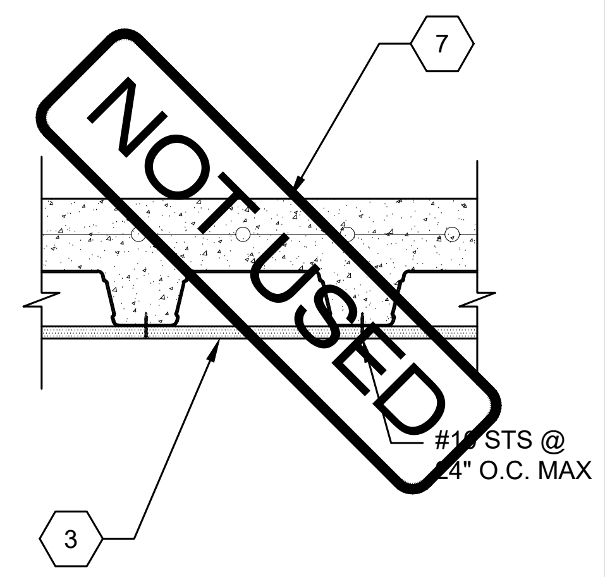
1. TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS ~~S1.0,~~ S1.1, ~~S1.2 & S1.3~~

## BUILDING SIZE SCHEDULE



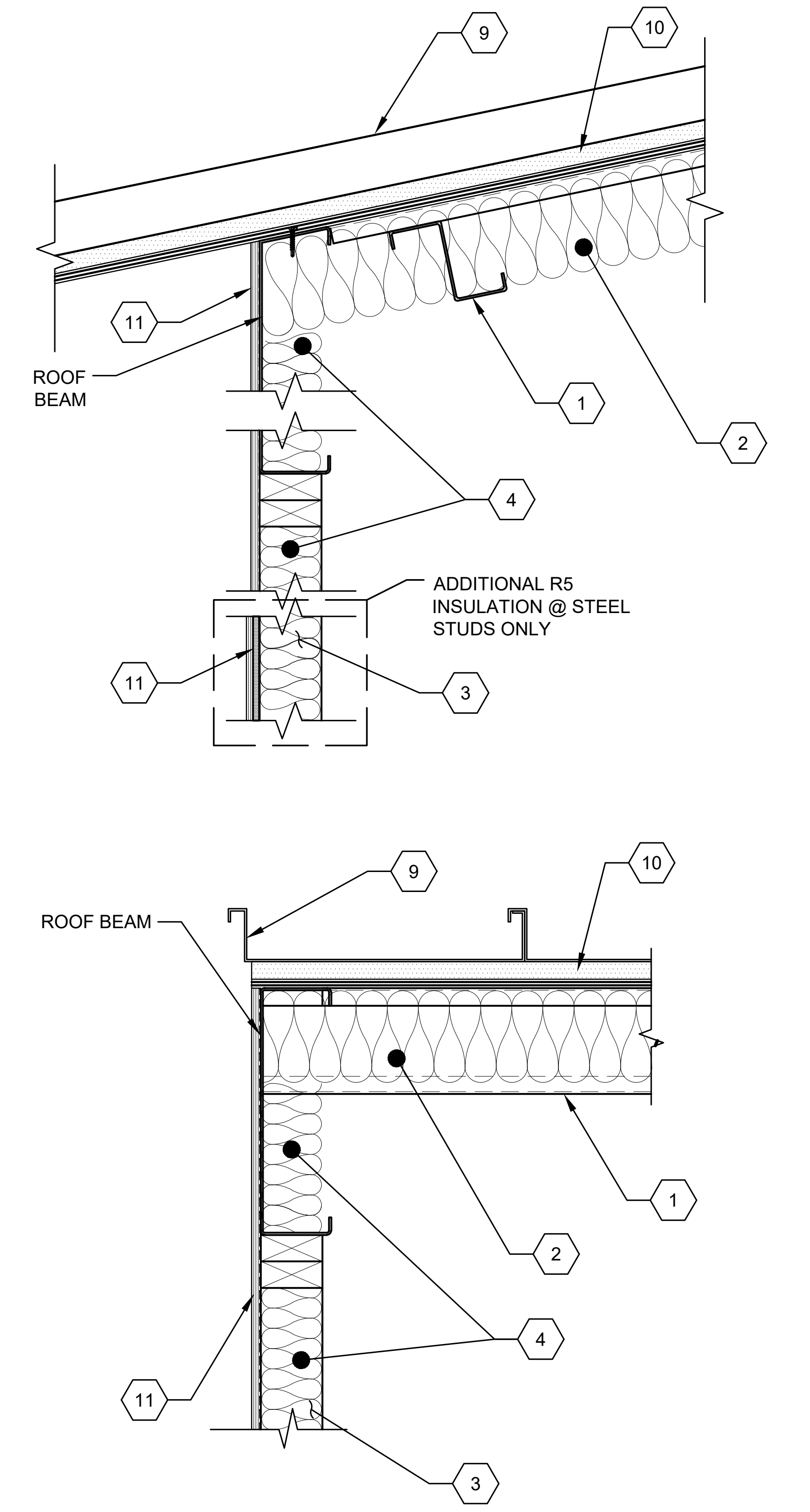
TYP. TRANSVERSE SECTION - MONO/DUAL PITCH

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



FLOOR SECTION
CONCRETE FLOOR

SCALE: NTS 1



INSULATION CORNER DET.

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

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APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
.
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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122050 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 12/11/2023

☐ **2022 CBC PRE-CHECK (PC) DOCUMENT**
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RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-25

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| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

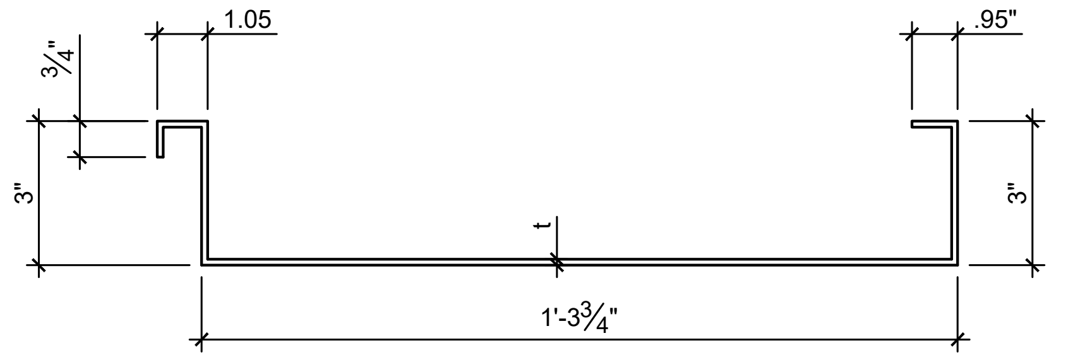
SHEET TITLE:
TYPICAL LONGITUDINAL
AND TRANSVERSE
FRAME SECTIONS

SHEET NUMBER:
A7.3

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

$Sx^+(t)$ = 0.364 IN.$^3$
$Sx^+(b)$ = 1.371 IN.$^3$
$Ix^+$ = 0.863 IN.$^4$

$Sx^-(t)$ = 0.330 IN.$^3$
$Sx^-(b)$ = 0.306 IN.$^3$
$Ix^-$ = 0.476 IN.
Ae = 0.259 IN.$^2$

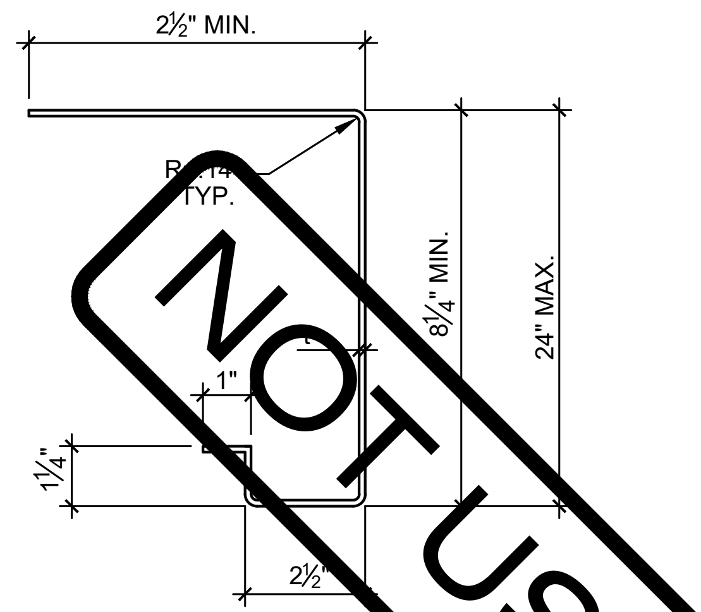
GROSS SECTION PROPERTIES

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)

## 20GA ROOF PAN PROPERTIES

2

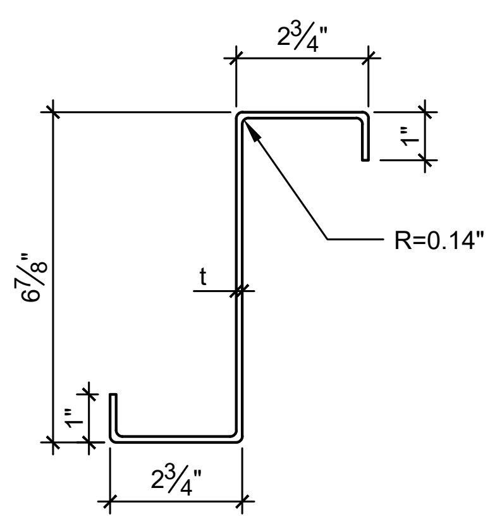


8 1/4" MIN. * x2½"x14ga
SOFFIT BEAM
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 0.97 IN$^2$
$Sx^-$ = 1.78 IN$^3$
$Sx^+$ = 1.31 IN$^3$
Ix = 6.87 IN$^4$
t = 0.068 IN MIN.
(0.0713 IN DESIGN)

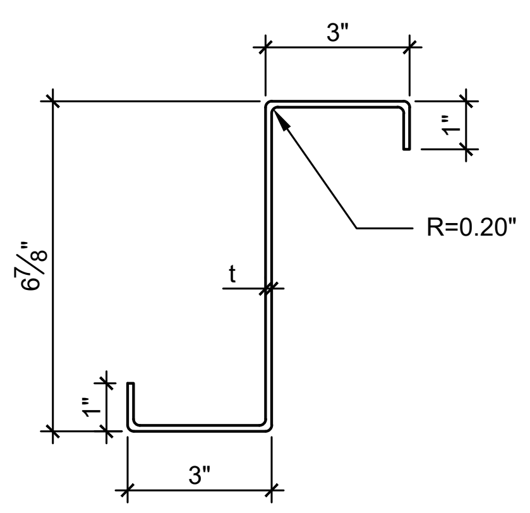
*- NOTE:
BEAM TO BE 8 1/4" MIN. DEEP TO MATCH OUTRIGGER BEAM. PROPERTIES & DESIGN BASED ON 7" MIN. MEMBER.

## SOFFIT BEAM PROPERTIES

3



$6\frac{7}{8}$"x$2\frac{3}{4}$"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)



$6\frac{7}{8}$"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)

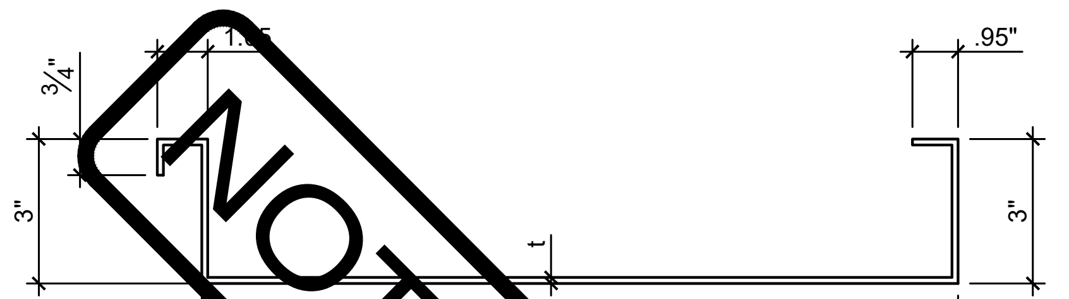
## LIGHT GAUGE FLOOR JOIST PROPERTIES

5

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)
OR ASTM A653 SS, GRADE 37 (Fy = 37 ksi)

w/ GALVANIZATION
t=0.0296 IN. MIN.

w/o GALVANIZATION
t=0.0269 IN. MIN.
(0.0283 IN. DESIGN)

EFFECTIVE SECTION PROPERTIES

$Sx^+(t)$ = 0.253 IN.$^3$
$Sx^+(b)$ = 1.109 IN.$^3$
$Ix^+$ = 0.618 IN.$^4$

$Sx^-(t)$ = 0.2[illegible]0 IN.$^3$
$Sx^-(b)$ = 0.226 IN.$^3$
$Ix^-$ = 0.362 IN.
Ae = 0.[illegible]0 IN.$^2$

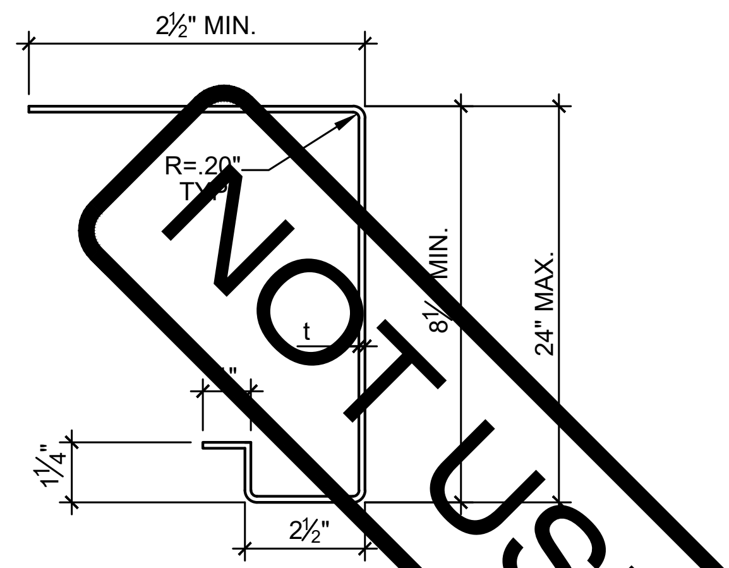
GROSS SECTION PROPERTIES

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)

## 22GA ROOF PAN PROPERTIES

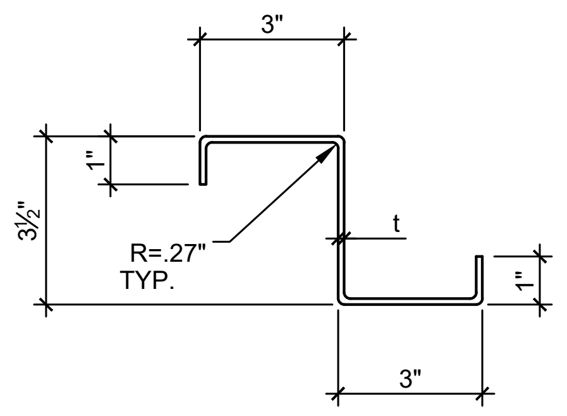
7



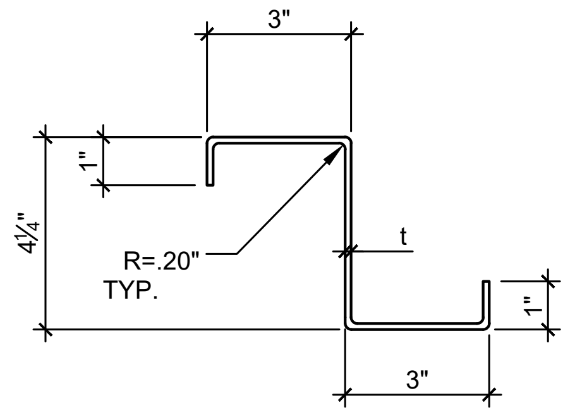
8 1/4" MIN.x2½"x12ga
SOFFIT OUTRIGGER BEAM
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 1.4785 IN$^2$
$Sx^-$ = 3.0614 IN$^3$
$Sx^+$ = 2.5100 IN$^3$
Ix = 13.642 IN$^4$
t = 0.097 IN MIN.
(0.1017 IN DESIGN)

## OUTRIGGER BEAM PROPERTIES

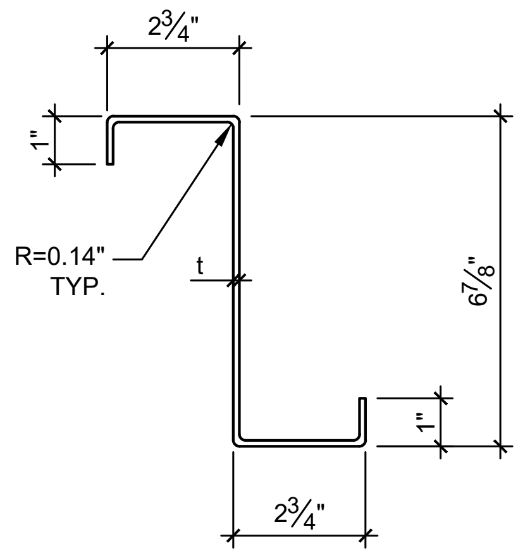
8



$3\frac{1}{2}$"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)



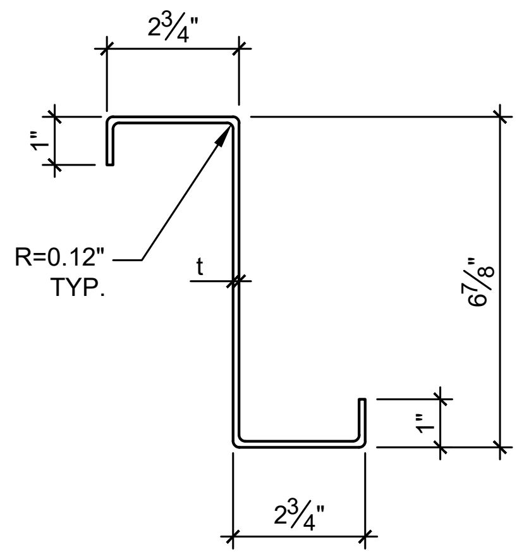
$4\frac{1}{4}$"x3"x12ga
ROOF PURLIN
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 1.16 IN$^2$
Sx = 1.63 IN$^3$
Ix = 3.46 IN$^4$
t = 0.097 IN MIN.
(0.1017 IN DESIGN)



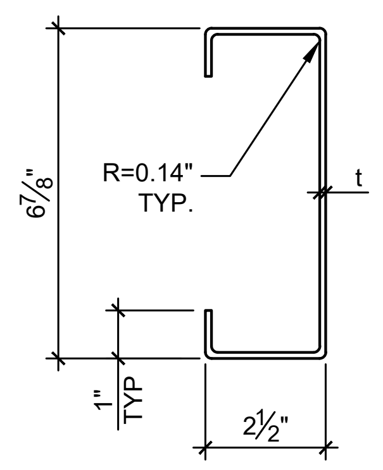
$6\frac{7}{8}$"x$2\frac{3}{4}$"x14ga
ROOF PURLIN
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 0.98 IN$^2$
Sx = 2.10 IN$^3$
Ix = 7.22 IN$^4$
t = 0.068 IN MIN.
(0.0713 IN DESIGN)

## LIGHT GAUGE ROOF PURLIN PROPERTIES (FOR USE W/ ROOF FRAMING PLANS S4.0 & S4.1)

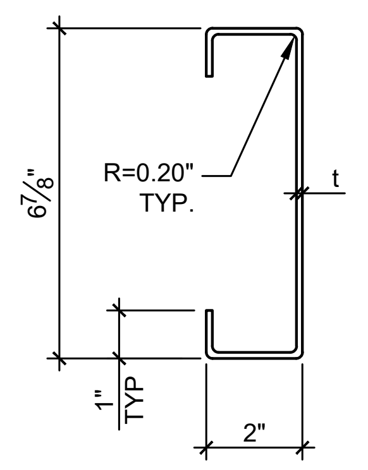
10



$6\frac{7}{8}$"x$2\frac{3}{4}$"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)



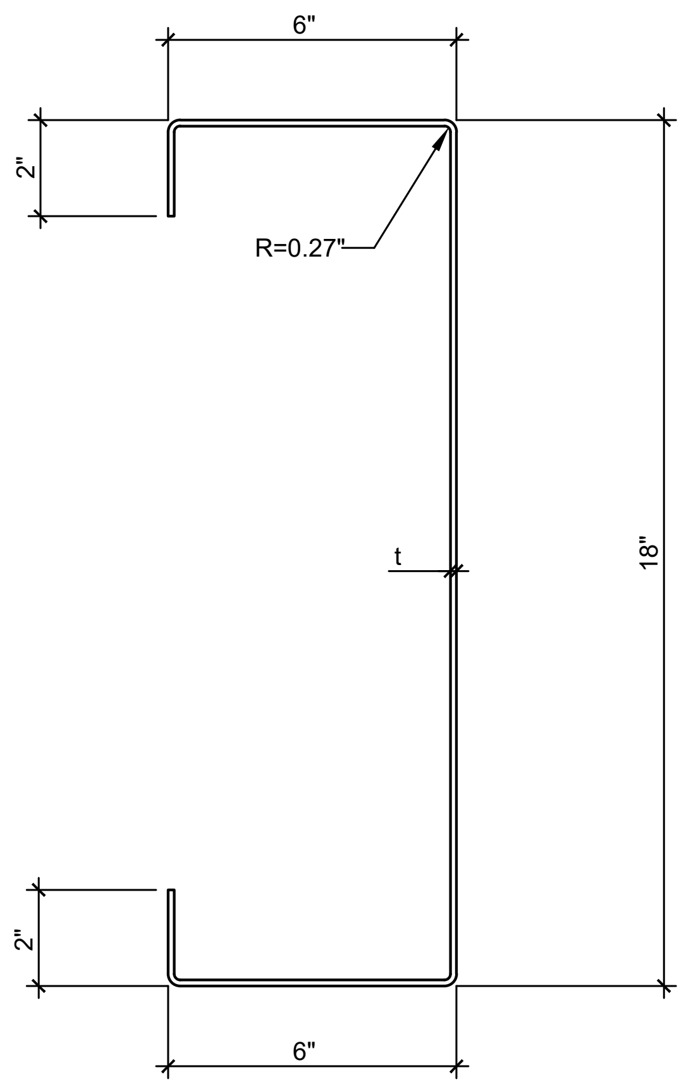
$6\frac{7}{8}$"x$2\frac{1}{2}$"x14ga 'C'
ALTERNATE ROOF PURLIN
ASTM A1011 SS, GRADE 45
Fy = 45 ksi
A = 0.95 IN$^2$
Sx = 1.98 IN$^3$
Ix = 6.81 IN$^4$
t = 0.0677 IN MIN.
(0.0713 IN DESIGN)



$6\frac{7}{8}$"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)

## LIGHT GAUGE ROOF PURLIN PROPERTIES (FOR USE W/ ROOF FRAMING PLAN S4.1 ONLY)

15



10 GA. LONGITUDINAL & TRANSVERSE BEAMS

ASTM = A1011 SS
GRADE = 50
Fy = 50ksi
t = 0.1278 IN. MIN.
(0.1345 IN. DESIGN)

| BEAM DEPTH | 18" |
|---|---|
| A (IN$^2$) | 4.42 |
| $S_X$ MIN. (IN$^3$) | 24.077 |
| $I_X$ MIN. (IN$^4$) | 216.70 |

## ROOF BEAM PROPERTIES

18

## NOT USED

19

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.

## SHEET NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122050 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 12/11/2023~~

☐ 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
11/21/2023

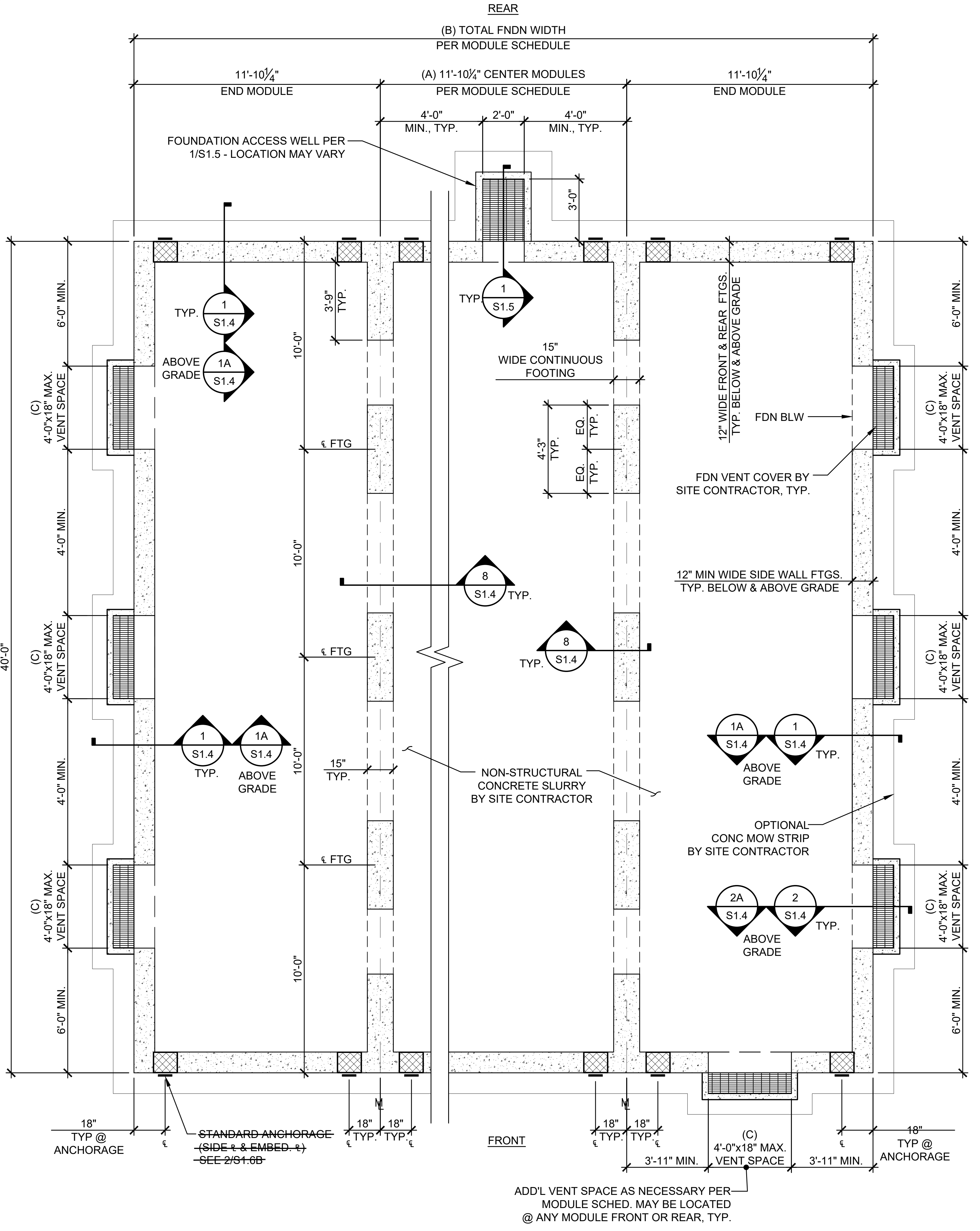
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-22

SHEET TITLE:
STEEL
MEMBER
PROPERTIES

SHEET NUMBER:
S0.0


REAR
(B) TOTAL FNDN WIDTH PER MODULE SCHEDULE
11'-10¼" END MODULE
(A) 11'-10¼" CENTER MODULES PER MODULE SCHEDULE
11'-10¼" END MODULE
4'-0" MIN., TYP.
2'-0"
4'-0" MIN., TYP.
FOUNDATION ACCESS WELL PER 1/S1.5 - LOCATION MAY VARY
3'-0"
TYP. 1 S1.4
ABOVE GRADE 1A S1.4
TYP. 1 S1.5
3'-9" TYP.
10'-0"
15" WIDE CONTINUOUS FOOTING
12" WIDE FRONT & REAR FTGS. TYP. BELOW & ABOVE GRADE
FDN BLW
4'-3" TYP.
EQ. TYP.
℄ FTG
FDN VENT COVER BY SITE CONTRACTOR, TYP.
(C) 4'-0"x18" MAX. VENT SPACE
6'-0" MIN.
4'-0" MIN.
40'-0"
8 S1.4 TYP.
12" MIN WIDE SIDE WALL FTGS. TYP. BELOW & ABOVE GRADE
1 S1.4 TYP.
1A S1.4 ABOVE GRADE
15" TYP.
NON-STRUCTURAL CONCRETE SLURRY BY SITE CONTRACTOR
OPTIONAL CONC MOW STRIP BY SITE CONTRACTOR
2A S1.4 ABOVE GRADE
2 S1.4 TYP.
18" TYP @ ANCHORAGE
~~STANDARD ANCHORAGE (SIDE ℄ & EMBED. ℄) SEE 2/S1.6B~~
18" TYP.
FRONT
(C) 4'-0"x18" MAX. VENT SPACE
3'-11" MIN.
ADD'L VENT SPACE AS NECESSARY PER MODULE SCHED. MAY BE LOCATED @ ANY MODULE FRONT OR REAR, TYP.

☒ CONCRETE FOUNDATION PLAN (PLYWOOD FLOOR)
50 PSF LIVE LOAD + 15 PSF PARTITION LOAD SCALE: 1/4"=1'-0" A

1. CONCRETE MIXTURES:
   - A. ULTIMATE 28-DAY CONCRETE COMPRESSIVE STRENGTH (f'c) SHALL BE PER SHEET N1.0A
   - B. PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-19, 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.

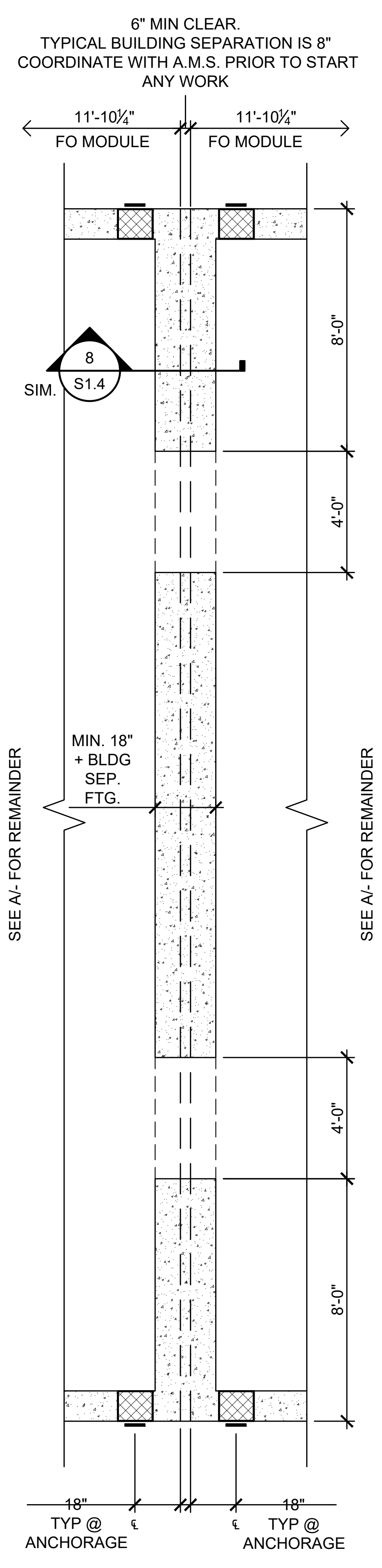
2. BUILDINGS MAY BE SET ON CONCRETE FOUNDATIONS THAT HAVE REACHED A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 2,500 PSI. PRIOR TO THE SETTING OF THE MODULAR BUILDING ON CONCRETE FOUNDATIONS THAT HAVE NOT YET CURED 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE, THE FOUNDATION CONTRACTOR SHALL
   - A. HAVE 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).

## NOTES



☒ FOUNDATION PLAN
COMBINED SCALE: 1/4"=1'-0" A1

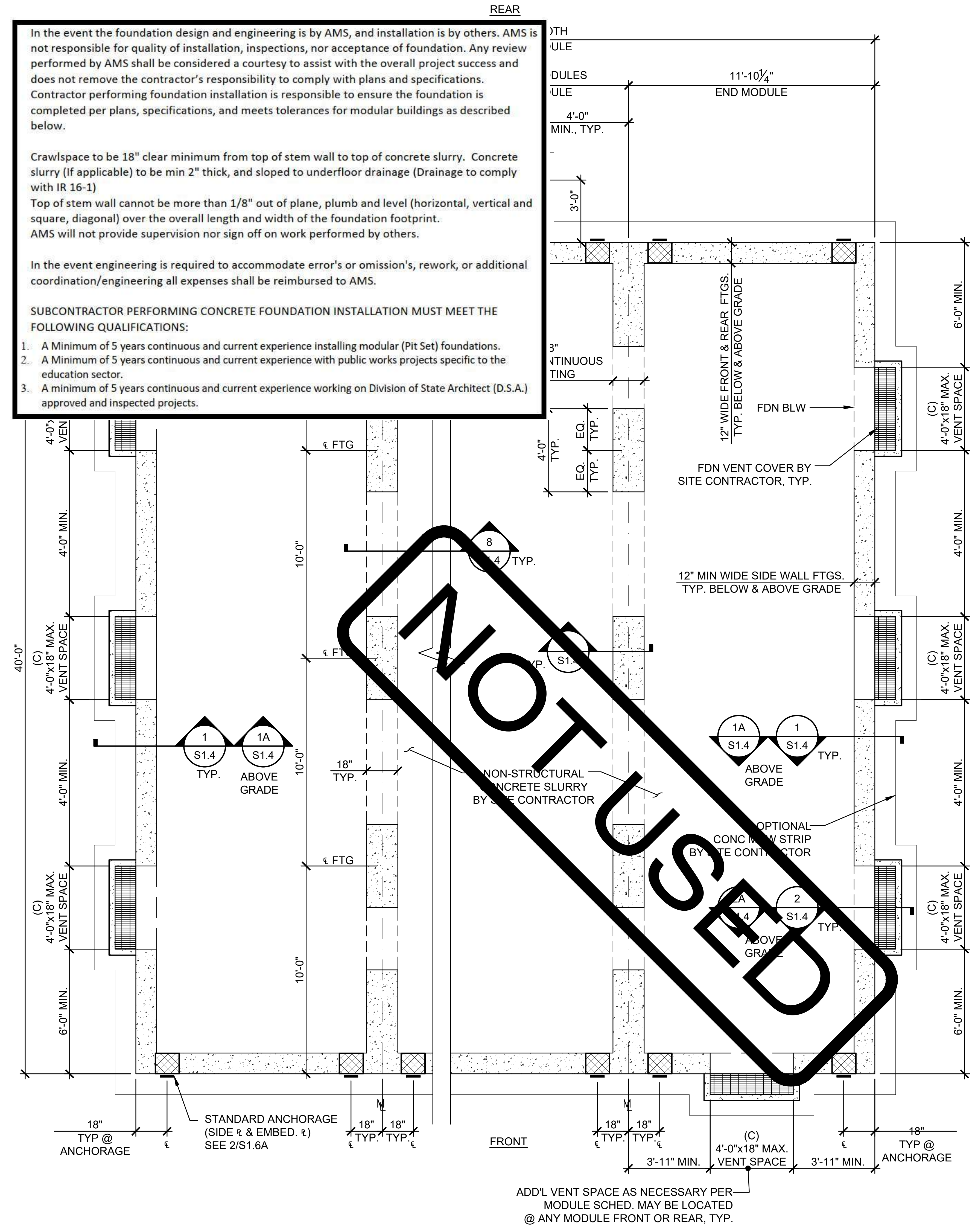
In the event the foundation design and engineering is by AMS, and installation is by others. AMS is not responsible for quality of installation, inspections, nor acceptance of foundation. Any review performed by AMS shall be considered a courtesy to assist with the overall project success and does not 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.

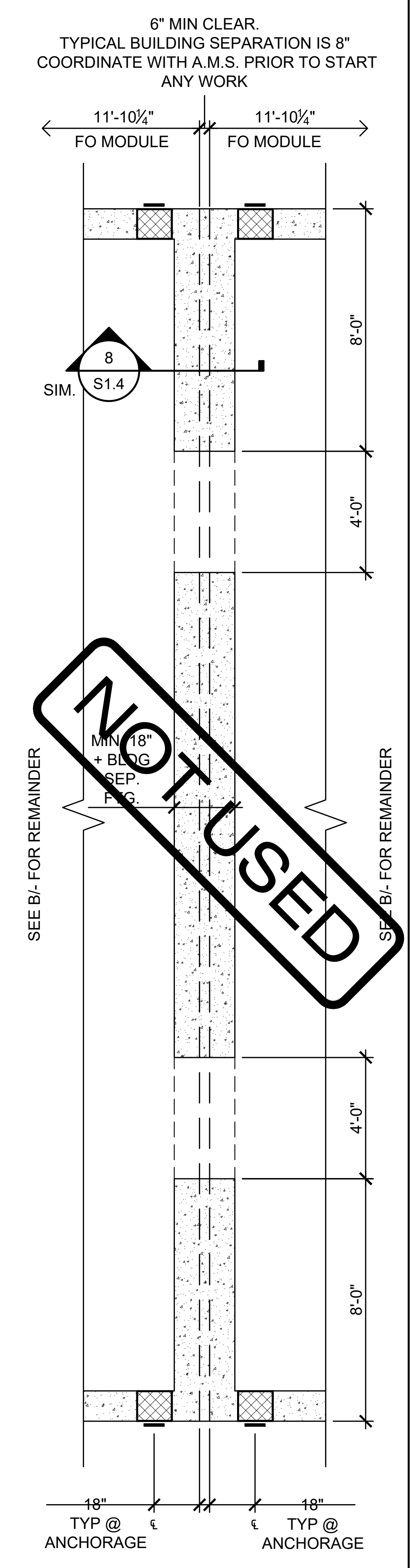
In the event engineering is required to accommodate error's or omission's, rework, or additional coordination/engineering all expenses shall be reimbursed to AMS.

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
NOT USED
11'-10¼" END MODULE
4'-0" MIN., TYP.
3'-0"
18" CONTINUOUS FOOTING
12" WIDE FRONT & REAR FTGS. TYP. BELOW & ABOVE GRADE
FDN BLW
FDN VENT COVER BY SITE CONTRACTOR, TYP.
℄ FTG
(C) 4'-0"x18" MAX. VENT SPACE
6'-0" MIN.
4'-0" MIN.
40'-0"
10'-0"
8 S1.4 TYP.
12" MIN WIDE SIDE WALL FTGS. TYP. BELOW & ABOVE GRADE
1 S1.4 TYP.
1A S1.4 ABOVE GRADE
18" TYP.
NON-STRUCTURAL CONCRETE SLURRY BY SITE CONTRACTOR
OPTIONAL CONC MOW STRIP BY SITE CONTRACTOR
2A S1.4
2 S1.4 TYP.
18" TYP @ ANCHORAGE
STANDARD ANCHORAGE (SIDE ℄ & EMBED. ℄) SEE 2/S1.6A
18" TYP.
FRONT
(C) 4'-0"x18" MAX. VENT SPACE
3'-11" MIN.
ADD'L VENT SPACE AS NECESSARY PER MODULE SCHED. MAY BE LOCATED @ ANY MODULE FRONT OR REAR, TYP.

☐ CONCRETE FOUNDATION PLAN (CONCRETE FLOOR)
50 PSF LIVE LOAD + 15 PSF PARTITION LOAD SCALE: 1/4"=1'-0" B



☐ FOUNDATION PLAN
COMBINED SCALE: 1/4"=1'-0" B1

| 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] ($FT^2$) |
| ☐ 24'x40' | 2 | 0 | 23'-8½" | 960 | 6.4 | 3 | 8.7 | 2 | 8.8 |
| ☒ 36'x40' | 3 | 1 | 35'-6¾" | 1440 | 9.6 | 4 | 11.6 | 3 | 13.1 |
| ☐ 48'x40' | 4 | 2 | 47'-5" | 1920 | 12.8 | 5 | 14.6 | 4 | 17.5 |
| ☐ 60'x40' | 5 | 3 | 59'-3¼" | 2400 | 16.0 | 6 | 17.5 | 4 | 17.5 |
| ☐ 72'x40' | 6 | 4 | 71'-1½" | 2880 | 19.2 | 7 | 20.4 | 5 | 21.9 |
| ☐ 84'x40' | 7 | 5 | 82'-11¾" | 3360 | 22.4 | 8 | 23.3 | 6 | 26.3 |
| ☐ 96'x40' | 8 | 6 | 94'-10" | 3840 | 25.6 | 9 | 26.2 | 6 | 26.3 |
| ☐ 108'x40' | 9 | 7 | 106'-8¼" | 4320 | 28.8 | 10 | 29.2 | 7 | 30.7 |
| ☐ 120'x40' | 10 | 8 | 118'-6½" | 4800 | 32.0 | 11 | 32.1 | 8 | 35.0 |

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.

$NFA_{REQUIRED} = A_{FLOOR} / 150$ $NFA_{PROVIDED} > NFA_{REQUIRED}$ $A_{VENT,GROSS} \times 73\% \times (\#\ OF\ VENTS) > NFA_{REQUIRED}$

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)

## MODULE SCHEDULE AND VENTING

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
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PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME

.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ **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
11/21/2023

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

REVISIONS

| | |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |

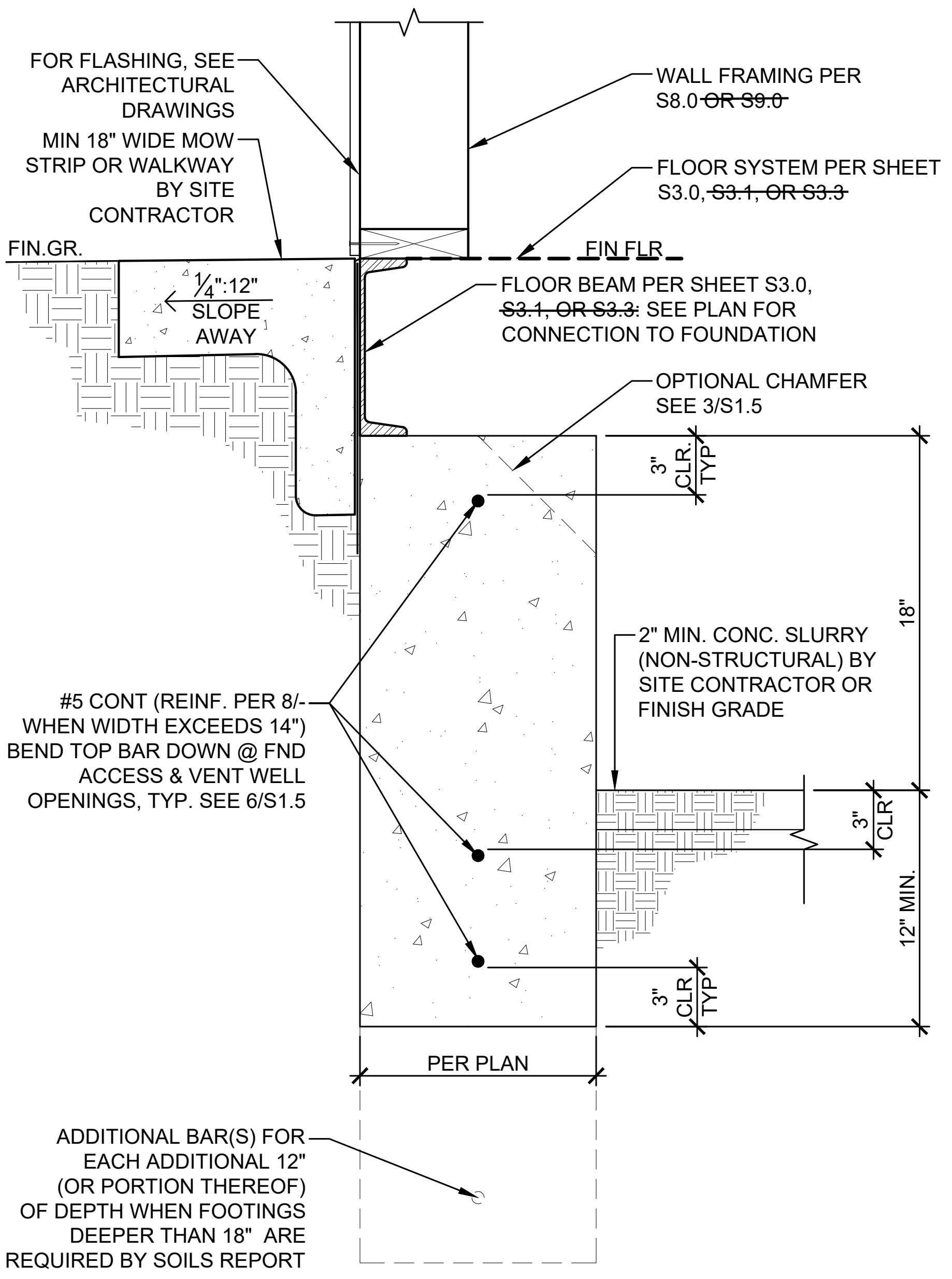
| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

CONCRETE FOUNDATION PLAN
(50 PSF LIVE LOAD + 15 PSF
FLOOR PARTITION LOAD)

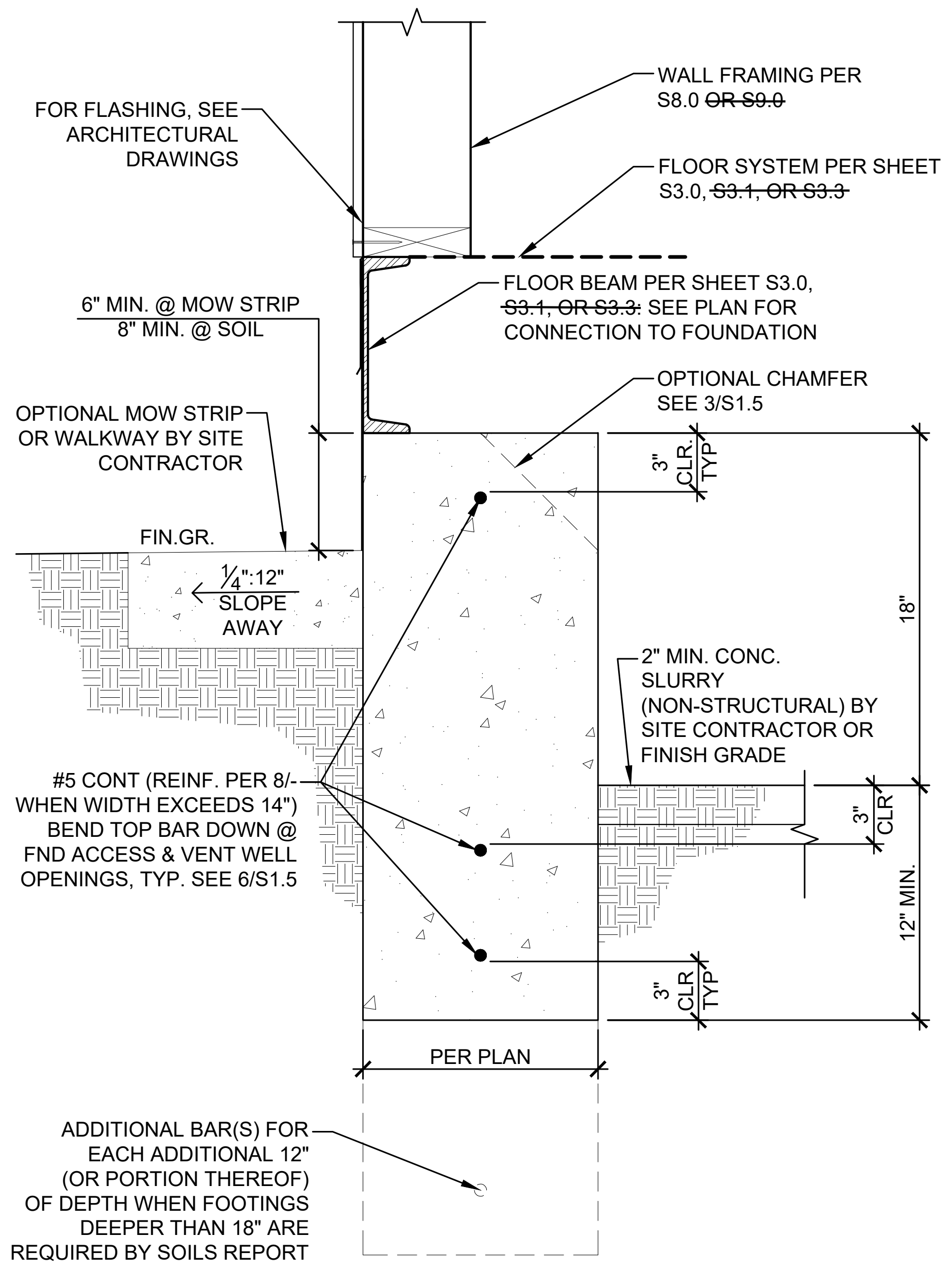
SHEET NUMBER:

S1.1


FOR FLASHING, SEE ARCHITECTURAL DRAWINGS
MIN 18" WIDE MOW STRIP OR WALKWAY BY SITE CONTRACTOR
FIN.GR.
FIN FLR
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
$\frac{1}{4}$":12" SLOPE AWAY
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

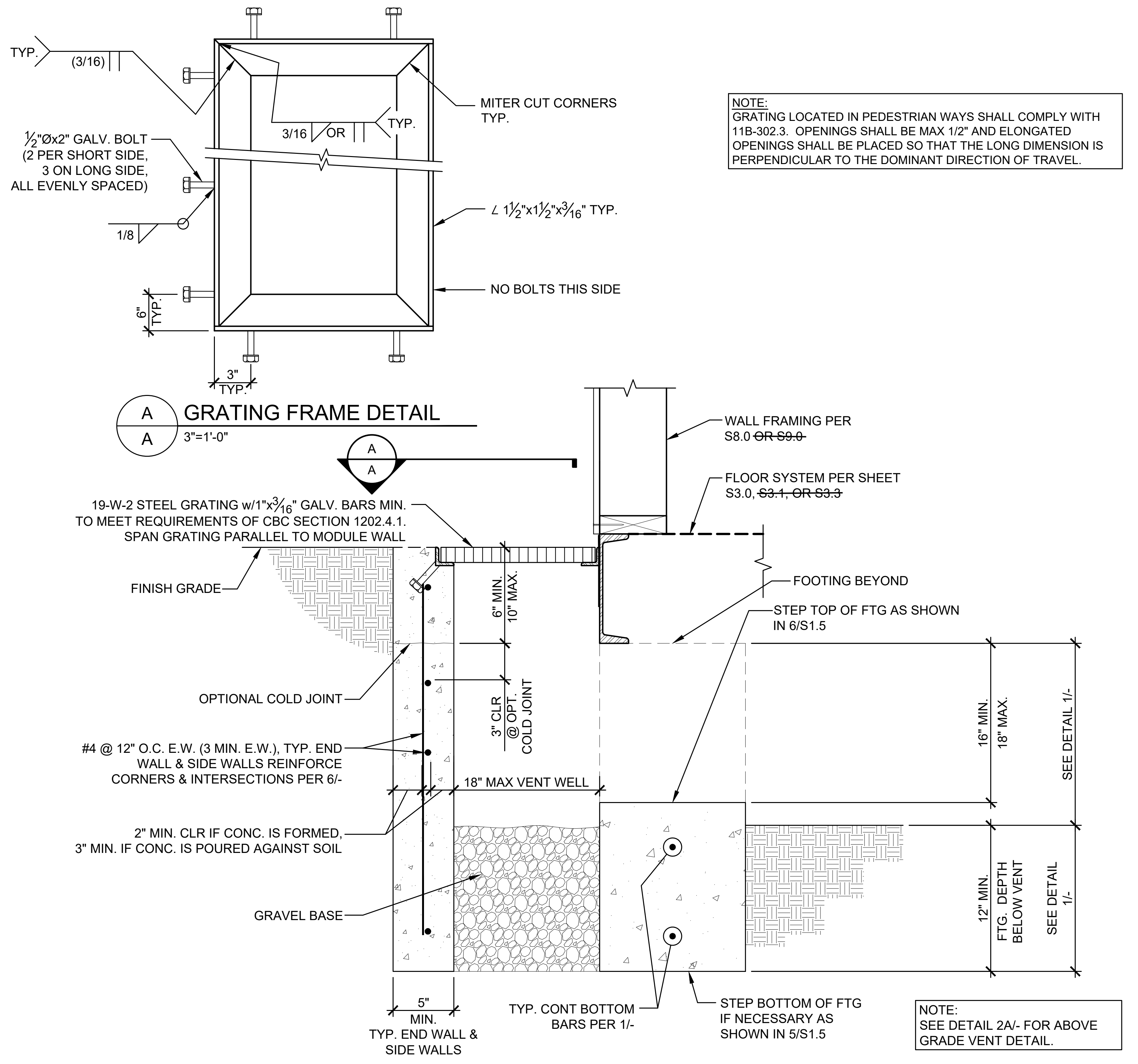
## TYP. FOOTING - BELOW GRADE

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
3" CLR. TYP
FIN.GR.
$\frac{1}{4}$":12" SLOPE AWAY
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

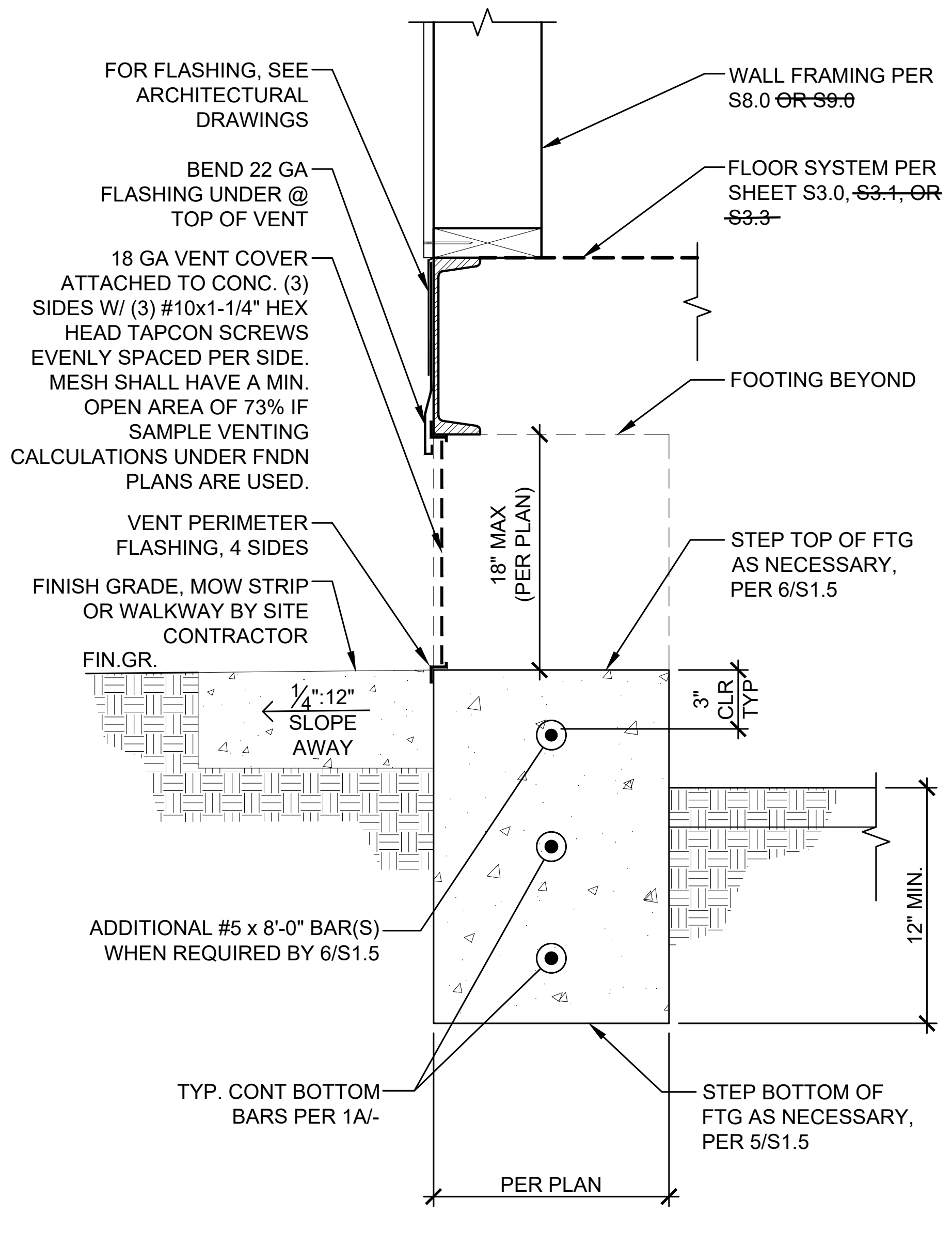

TYP.
(3/16)
MITER CUT CORNERS TYP.
3/16 OR TYP.
$\frac{1}{2}$"Øx2" GALV. BOLT (2 PER SHORT SIDE, 3 ON LONG SIDE, ALL EVENLY SPACED)
∠ $1\frac{1}{2}$"x$1\frac{1}{2}$"x$\frac{3}{16}$" TYP.
1/8
NO BOLTS THIS SIDE
6" TYP.
3" TYP.
A
A
GRATING FRAME DETAIL
3"=1'-0"
WALL FRAMING PER S8.0 ~~OR S9.0~~
FLOOR SYSTEM PER SHEET S3.0, ~~S3.1, OR S3.3~~
19-W-2 STEEL GRATING w/1"x$\frac{3}{16}$" 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
STEP TOP OF FTG AS SHOWN IN 6/S1.5
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/-
16" MIN. 18" MAX.
SEE DETAIL 1/-
18" MAX VENT WELL
2" MIN. CLR IF CONC. IS FORMED, 3" MIN. IF CONC. IS POURED AGAINST SOIL
GRAVEL BASE
12" MIN. FTG. DEPTH BELOW VENT
SEE DETAIL 1/-
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. 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.
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
$\frac{1}{4}$":12" SLOPE AWAY
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

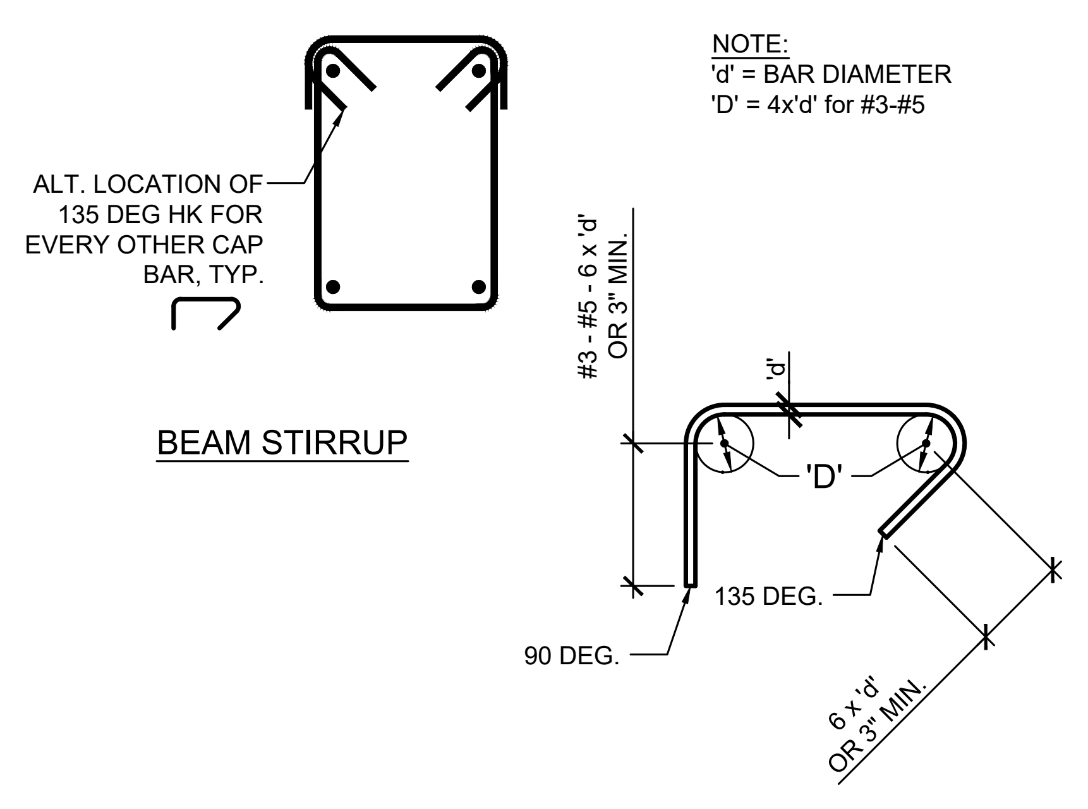
SCALE: 1-1/2" = 1'-0" 2A

## NOT USED

3

## NOT USED

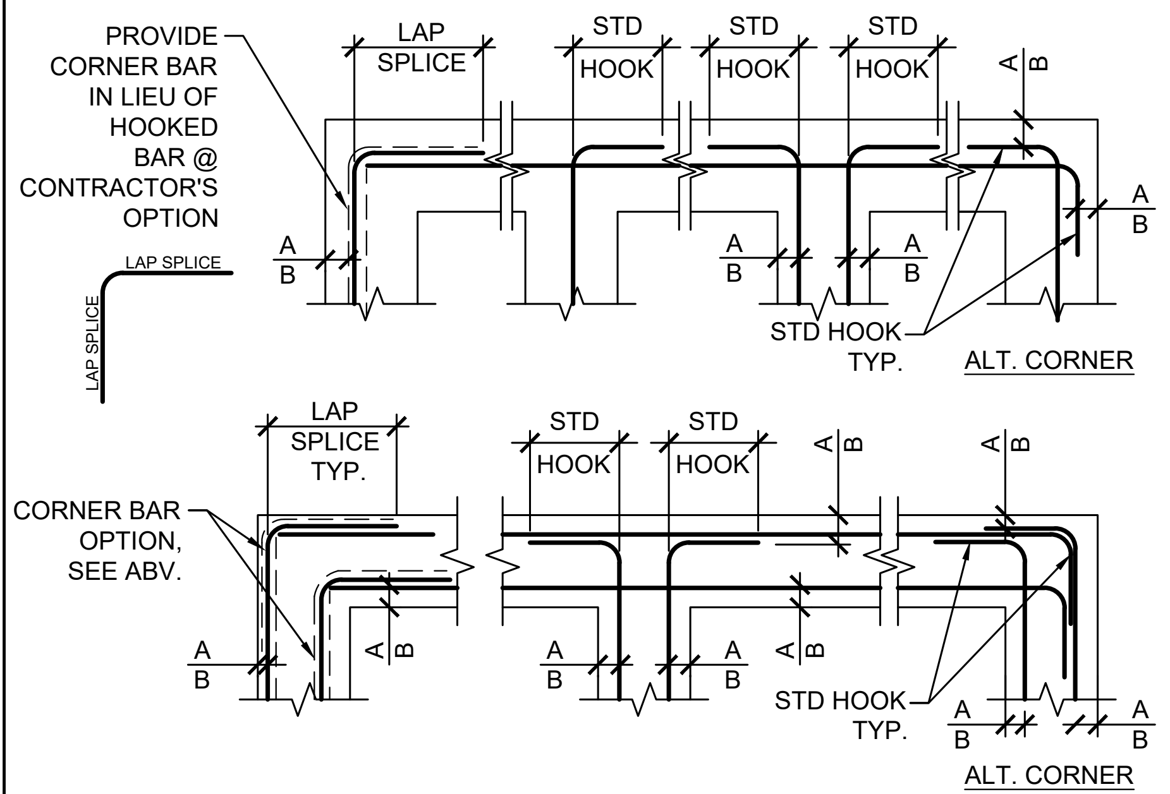
3A


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

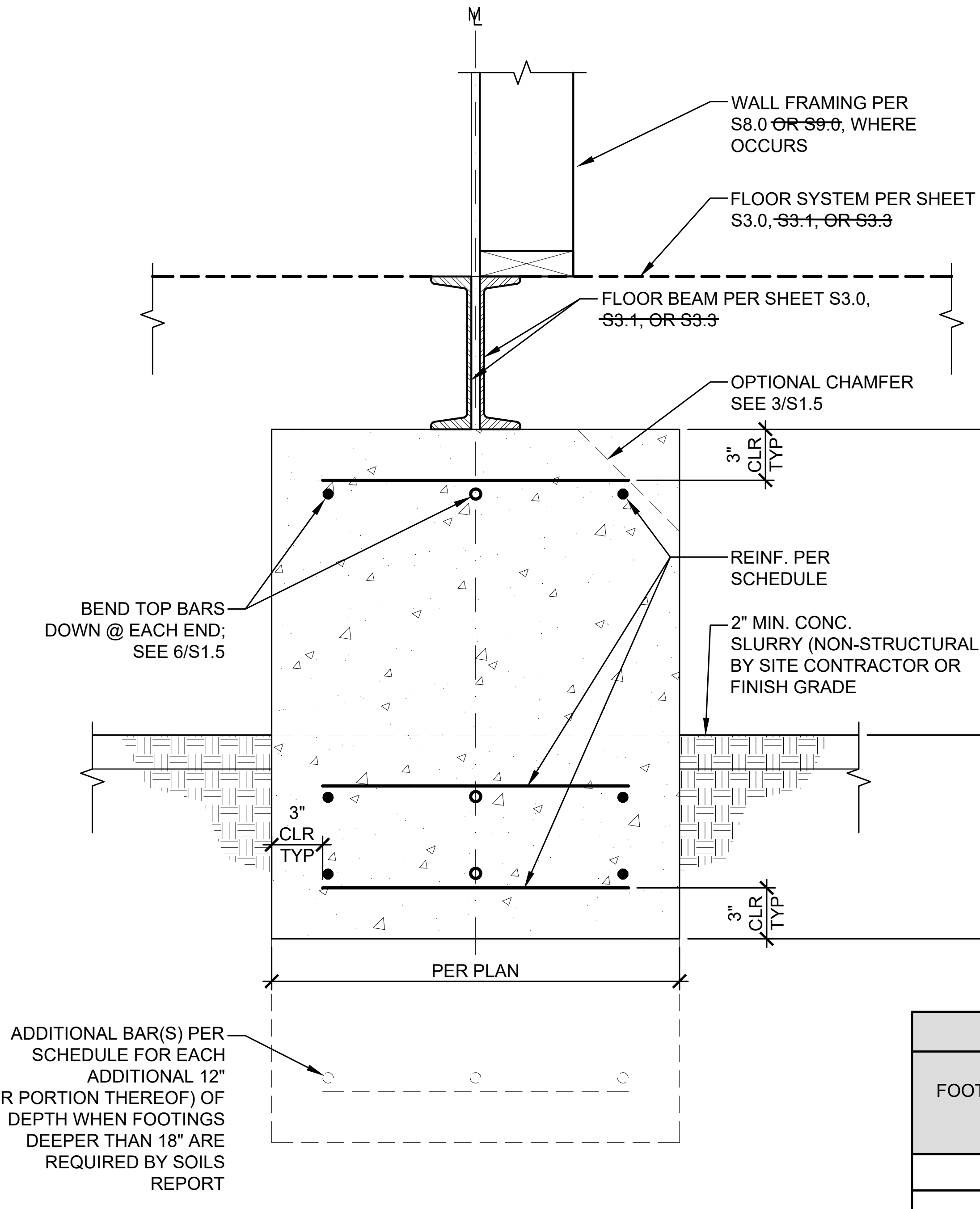


NOTES:

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

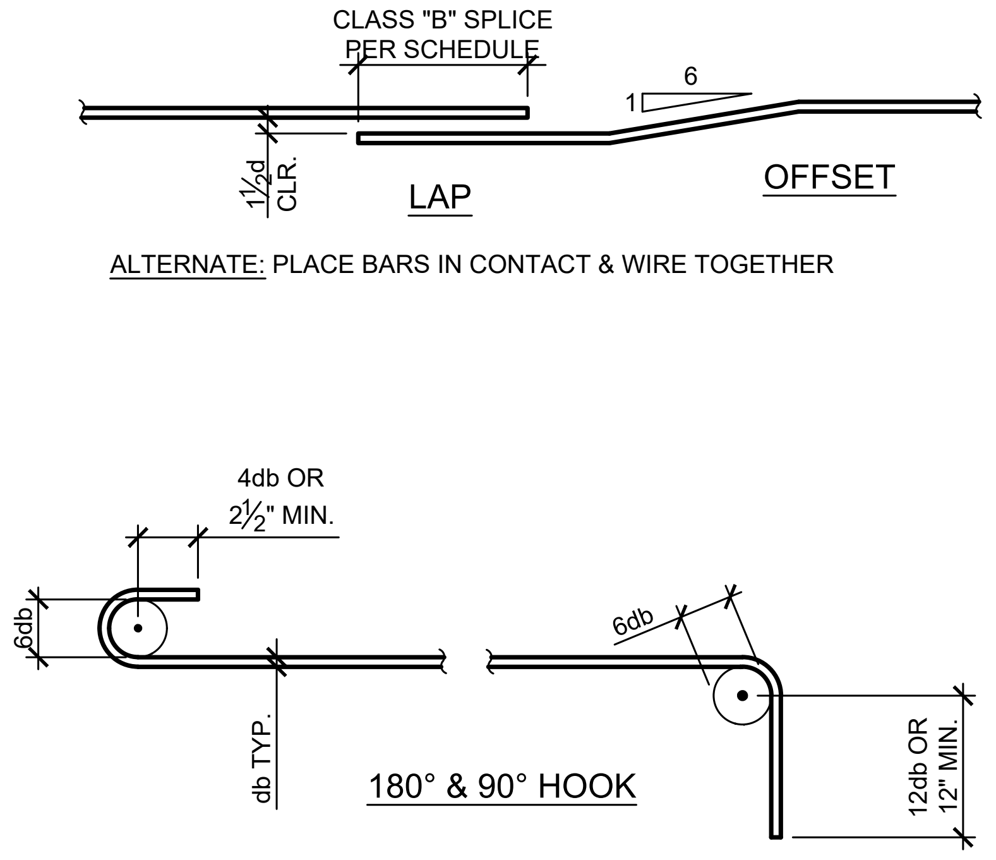
SCALE: 1-1/2" = 1'-0" 6


℄
WALL FRAMING PER S8.0 ~~OR S9.0~~, WHERE OCCURS
FLOOR SYSTEM PER SHEET S3.0, ~~S3.1, OR S3.3~~
FLOOR BEAM PER SHEET S3.0, ~~S3.1, OR S3.3~~
OPTIONAL CHAMFER SEE 3/S1.5
3" CLR TYP
REINF. PER SCHEDULE
BEND TOP BARS DOWN @ EACH END; SEE 6/S1.5
2" MIN. CONC. SLURRY (NON-STRUCTURAL) BY SITE CONTRACTOR OR FINISH GRADE
18" MIN. - 24" MAX. PIER SEE PLANS
12" MIN. CONTIN. FOOTING
3" CLR TYP
PER PLAN
ADDITIONAL BAR(S) PER SCHEDULE FOR EACH ADDITIONAL 12" (OR PORTION THEREOF) OF DEPTH WHEN FOOTINGS DEEPER THAN 18" ARE REQUIRED BY SOILS REPORT

| 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. |

## TYPICAL INTERIOR MODLINE FOOTING SECTION

8



ALTERNATE: PLACE BARS IN CONTACT & WIRE TOGETHER

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

NOTES:

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

## TYP. REINFORCING LAPS & BENDS

SCALE: 1-1/2" = 1'-0" 9

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www.americanmodular.com

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PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ **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
11/21/2023

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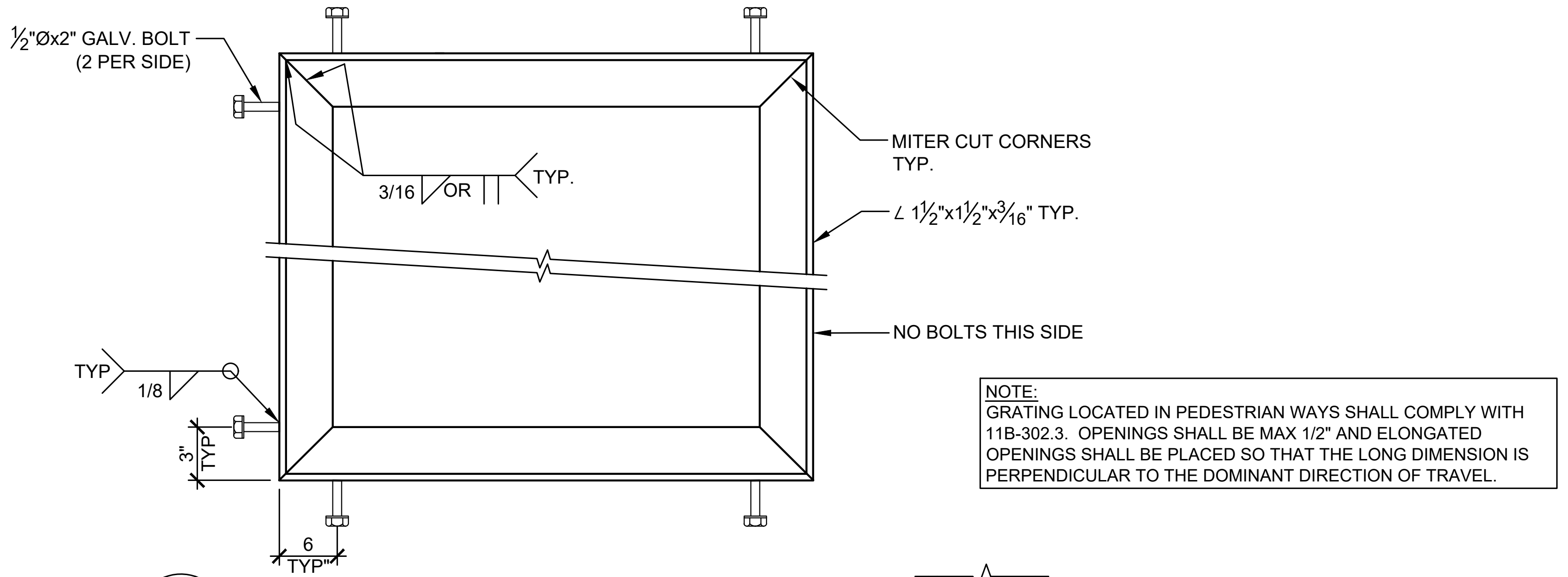
△1
△2
△3
△4

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-22

SHEET TITLE:
CONCRETE FOUNDATION DETAILS

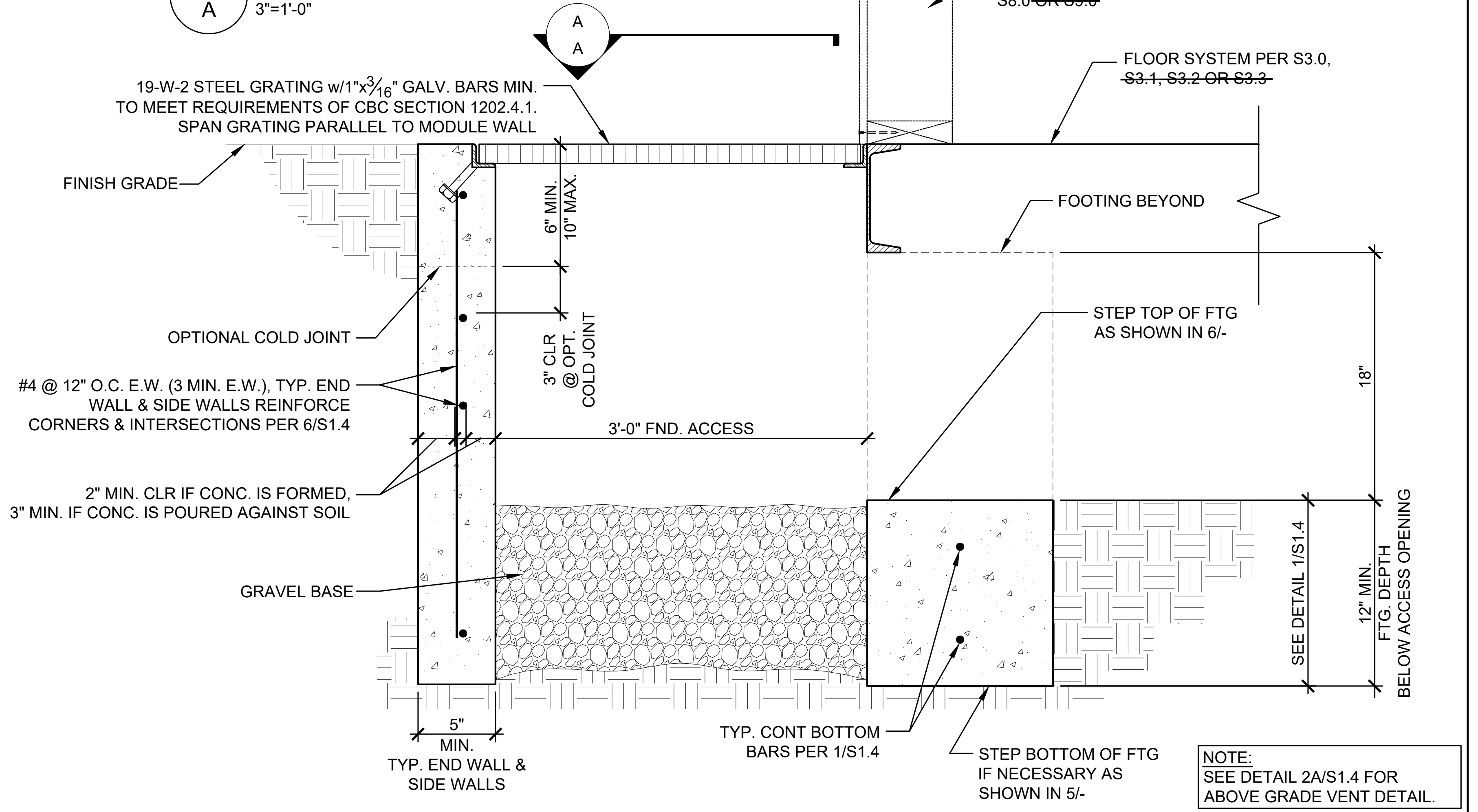
SHEET NUMBER:
S1.4



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.

## A/A GRATING FRAME DETAIL

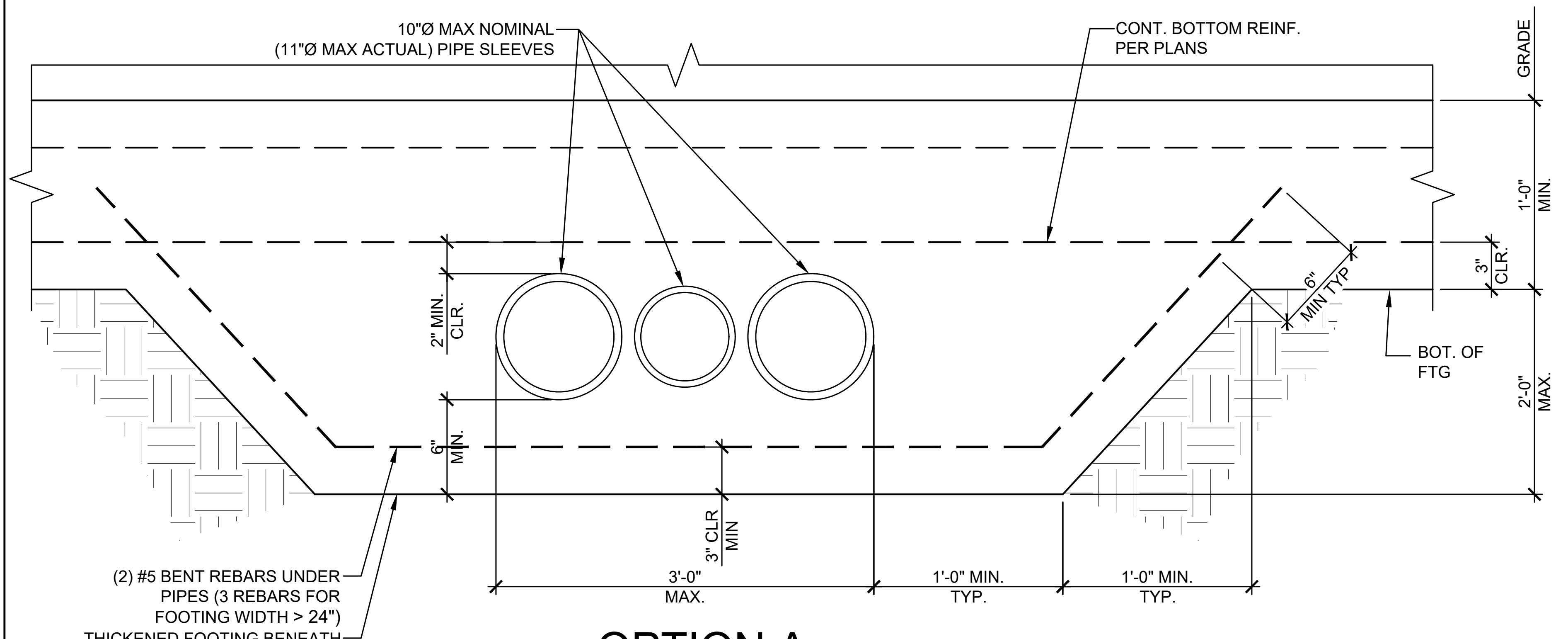
3"=1'-0"



NOTE:
SEE DETAIL 2A/S1.4 FOR ABOVE GRADE VENT DETAIL.

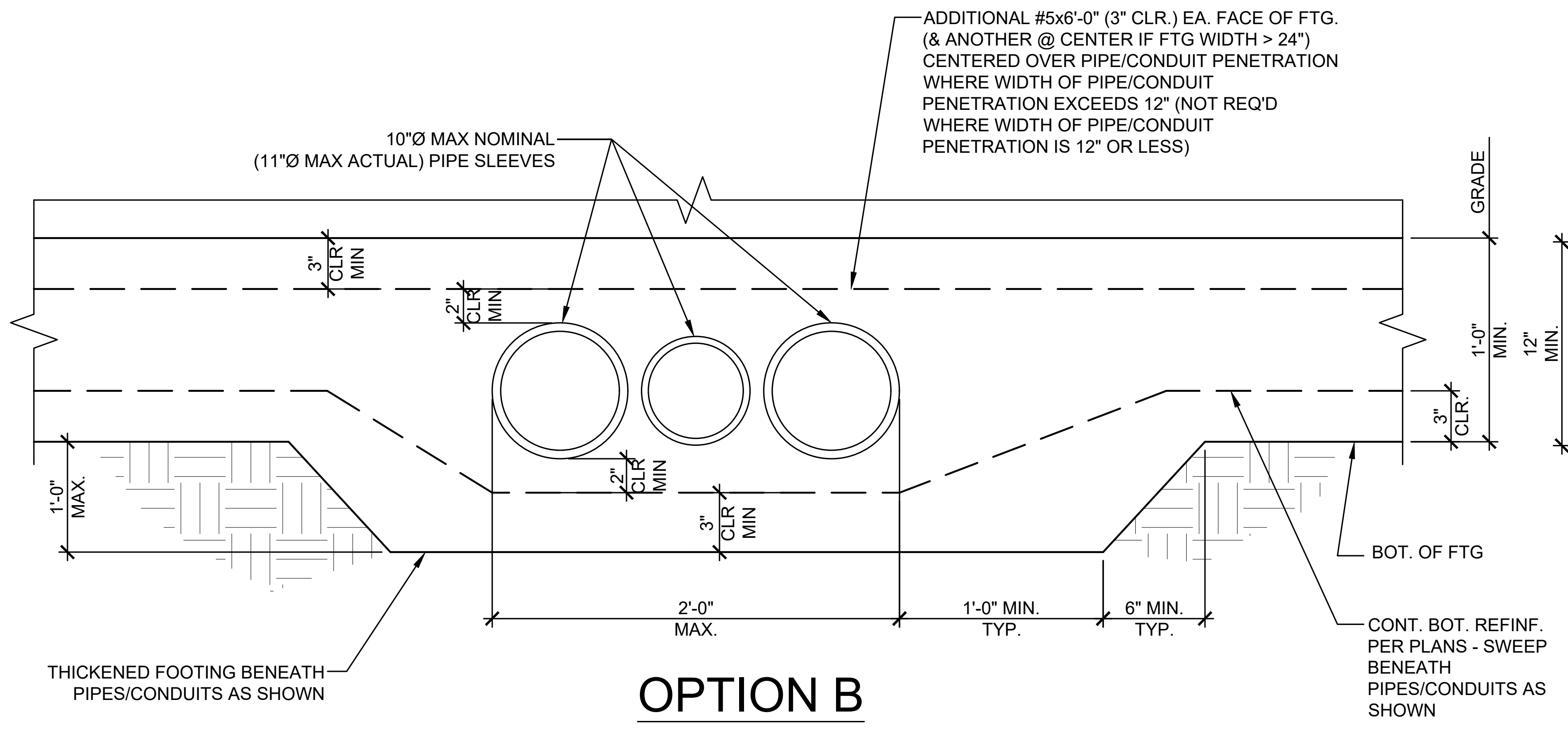
## BELOW GRADE SECTION / ACCESS WELL DETAIL — 1

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

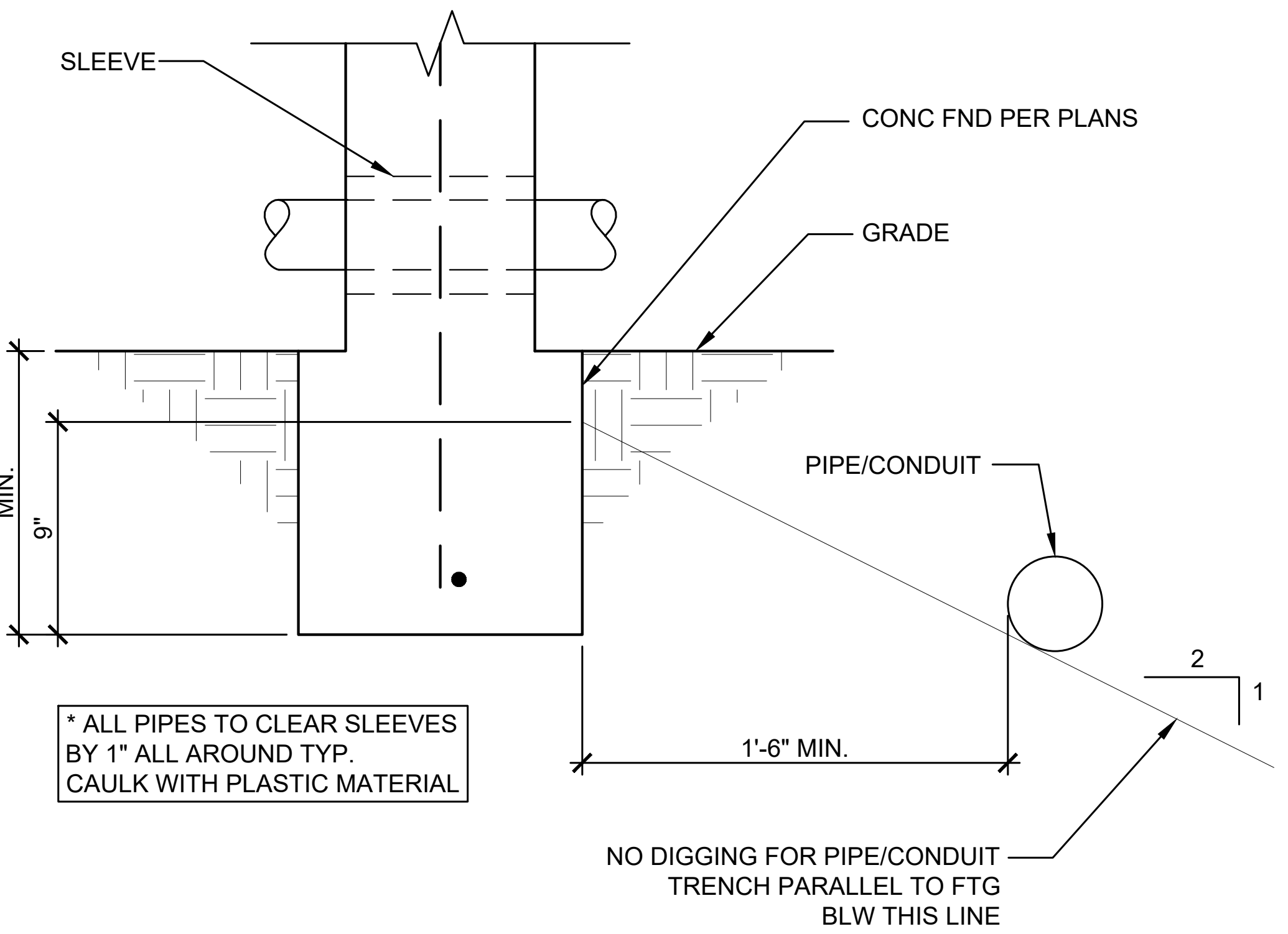


### OPTION A

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

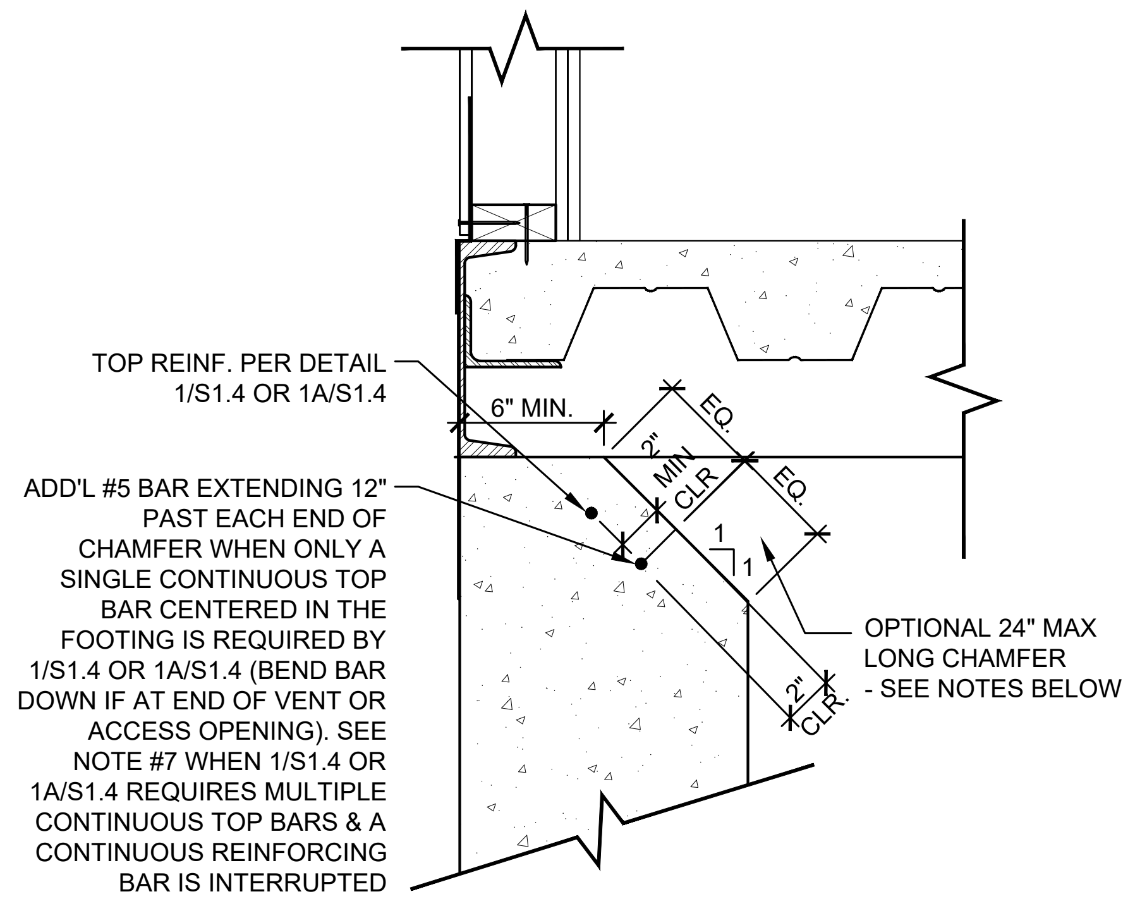
### OPTION B



* ALL PIPES TO CLEAR SLEEVES BY 1" ALL AROUND TYP. CAULK WITH PLASTIC MATERIAL

## PIPE SLEEVE DETAIL — 2

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

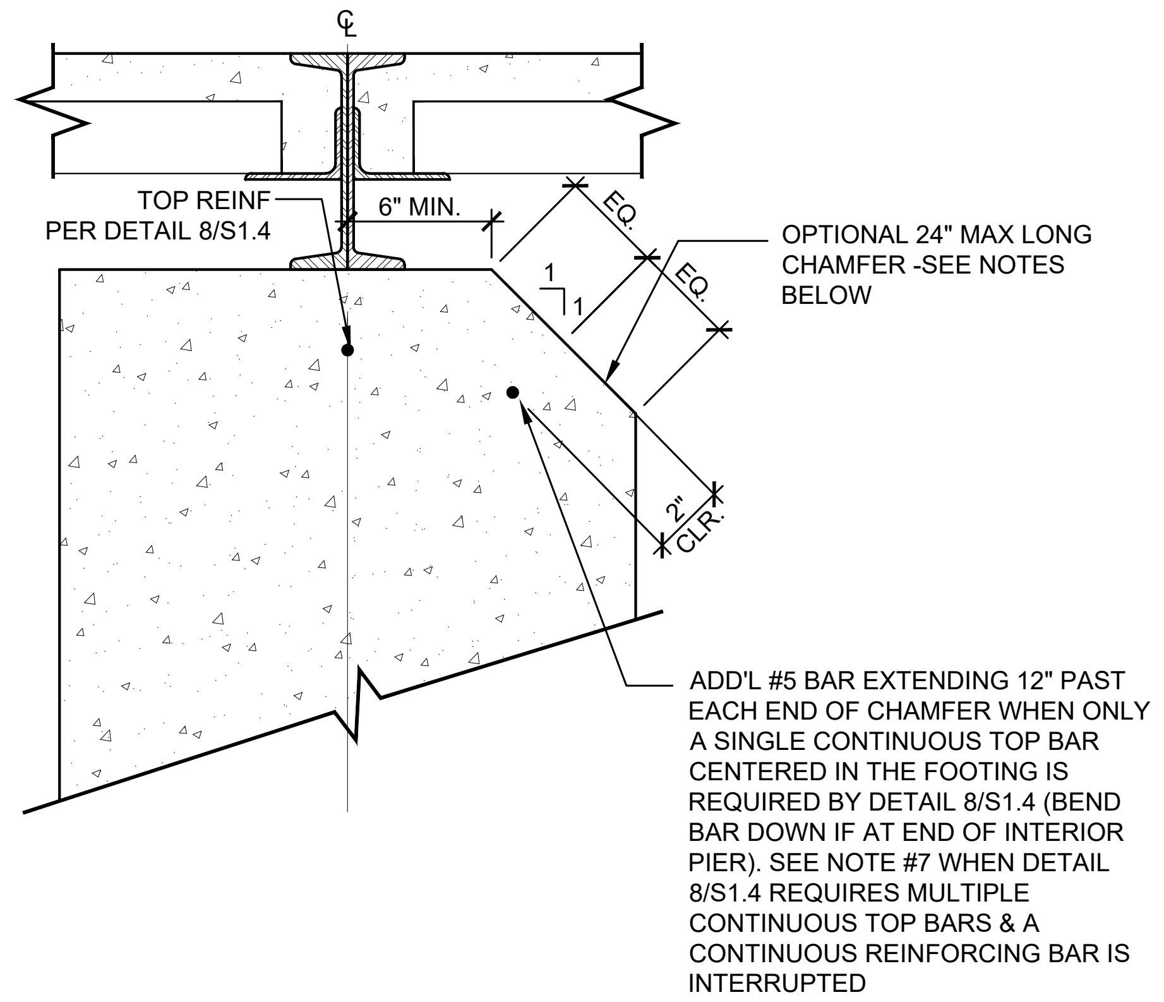


NOTES:

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. CHAMFER SHALL NOT BE LOCATED WITHIN 1'-6" OF ANCHORAGE EMDED. PLATE LOCATION.
5. CHAMFERS SHALL NOT BE LOCATED WITHIN 1'-6" OF UTILITY OPENINGS PER SHEET S1.7
6. 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)
7. BOTTOM OF CHAMFER SHALL NOT BE LOWER THAN FINISHED GRADE
8. WHEN 1/S1.4 OR 1A/S1.4 REQUIRED 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)
9. FOR ALL ITEMS NOT SHOWN OR NOTED SEE DETAILS 1/S1.4 & 1A/S1.4.

## CHAMFER DETAILS @ PERIMETER — 3

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

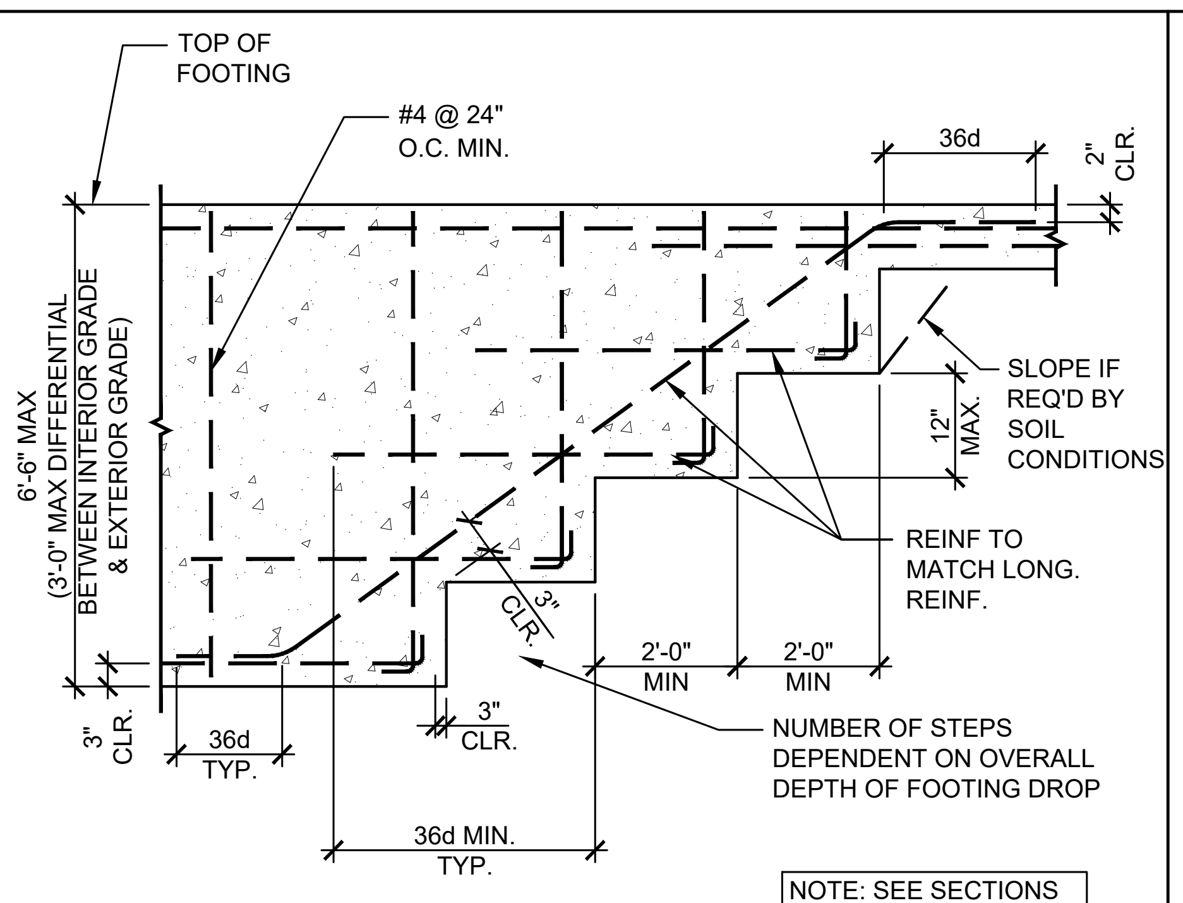

℄
TOP REINF
PER DETAIL 8/S1.4
6" MIN.
EQ.
EQ.
1
1
OPTIONAL 24" MAX LONG
CHAMFER -SEE NOTES
BELOW
2"
CLR.
ADD'L #5 BAR EXTENDING 12" PAST
EACH END OF CHAMFER WHEN ONLY
A SINGLE CONTINUOUS TOP BAR
CENTERED IN THE FOOTING IS
REQUIRED BY DETAIL 8/S1.4 (BEND
BAR DOWN IF AT END OF INTERIOR
PIER). SEE NOTE #7 WHEN DETAIL
8/S1.4 REQUIRES MULTIPLE
CONTINUOUS TOP BARS & A
CONTINUOUS REINFORCING BAR IS
INTERRUPTED

NOTES:

1. CHAMFER MAY BE LOCATED ALONG ALL LOCATIONS OF INTERIOR FOOTING OF THE BUILDING FOUNDATION UNLESS OTHERWISE NOTED ON PLAN OR AS DESCRIBED BELOW.
2. CHAMFER SHALL NOT BE LOCATED WITHIN 2'-6" OF THE ENDS OF THE BUILDING.
3. CHAMFER MAY OCCUR ON BOTH SIDES OF THE FOOTING CONCURRENTLY.
4. CHAMFER SHALL NOT BE LOCATED WITHIN 1'-6" OF UTILITY OPENING PER SHEET S1.7
5. CHAMFER MAY OCCUR AT THE ENDS OF INTERIOR PIERS (ALONG THE SIDE OF THE PIER PARALLEL TO THE FLOOR BEAMS AS SHOWN ABOVE)
6. BOTTOM OF CHAMFER SHALL NOT BE LOWER THAN FINISHED GRADE
7. WHEN DETAIL 8/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 INTERIOR PIER)
8. FOR ALL ITEMS NOT SHOWN OR NOTED - SEE DETAIL 8/S1.4.

## CHAMFER DETAILS @ INTERIOR — 4

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

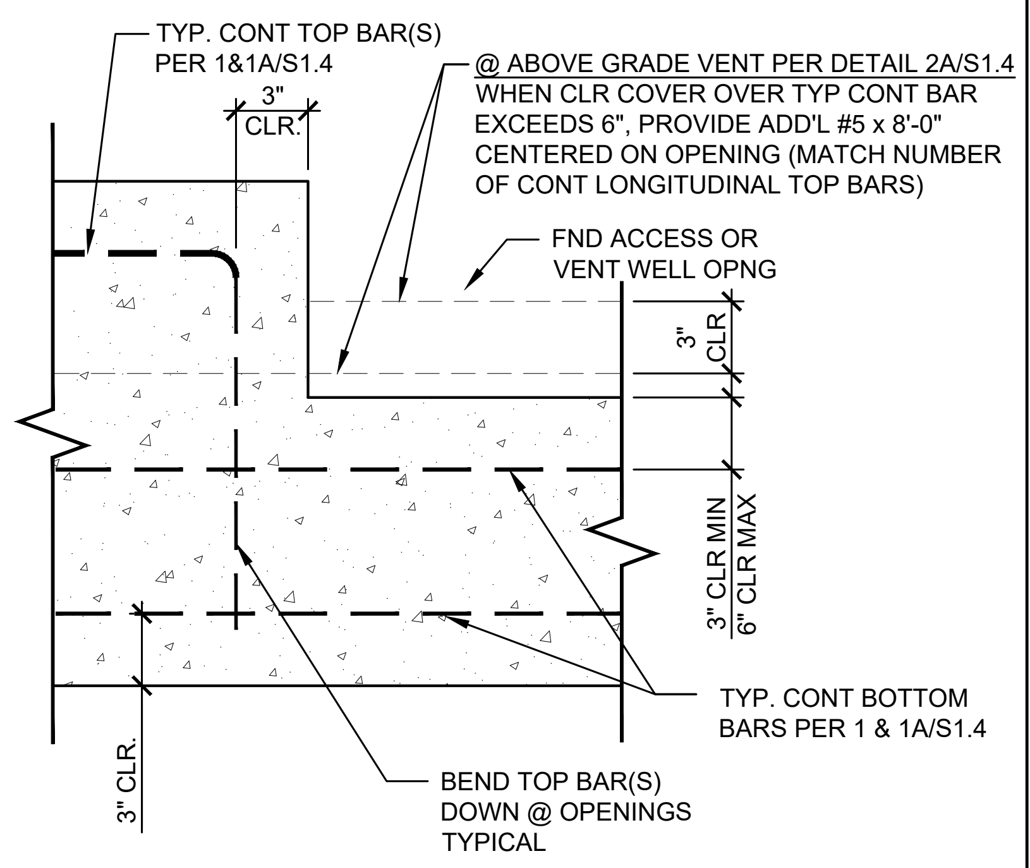


NOTE: SEE SECTIONS FOR FTG WIDTH & REINF

## TYPICAL STEPPED FOOTING DETAIL — 5

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

NOTE: SEE SECTIONS FOR FTG WIDTH & REINF



## VENT/ACCESS OPENING DETAIL — 6

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

## NOT USED — 7

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PRE-CHECKED SET NAME

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
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SITE SPECIFIC PROJECT NAME

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

MANNY D. FRISCH
No. S3380
RST#22214
11/21/2023

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| | |
|---|---|
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| 2 | |
| 3 | |
| 4 | |

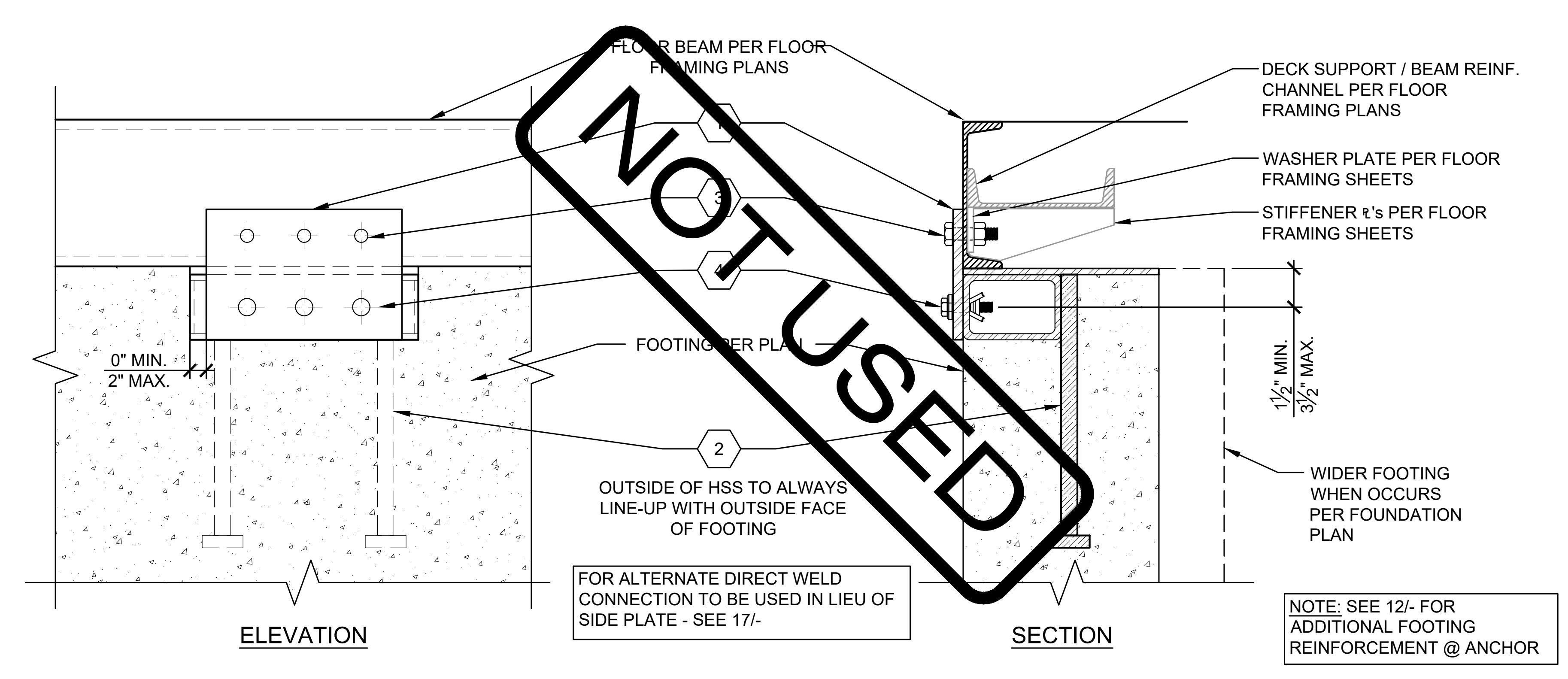
| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

CONCRETE FOUNDATION DETAILS

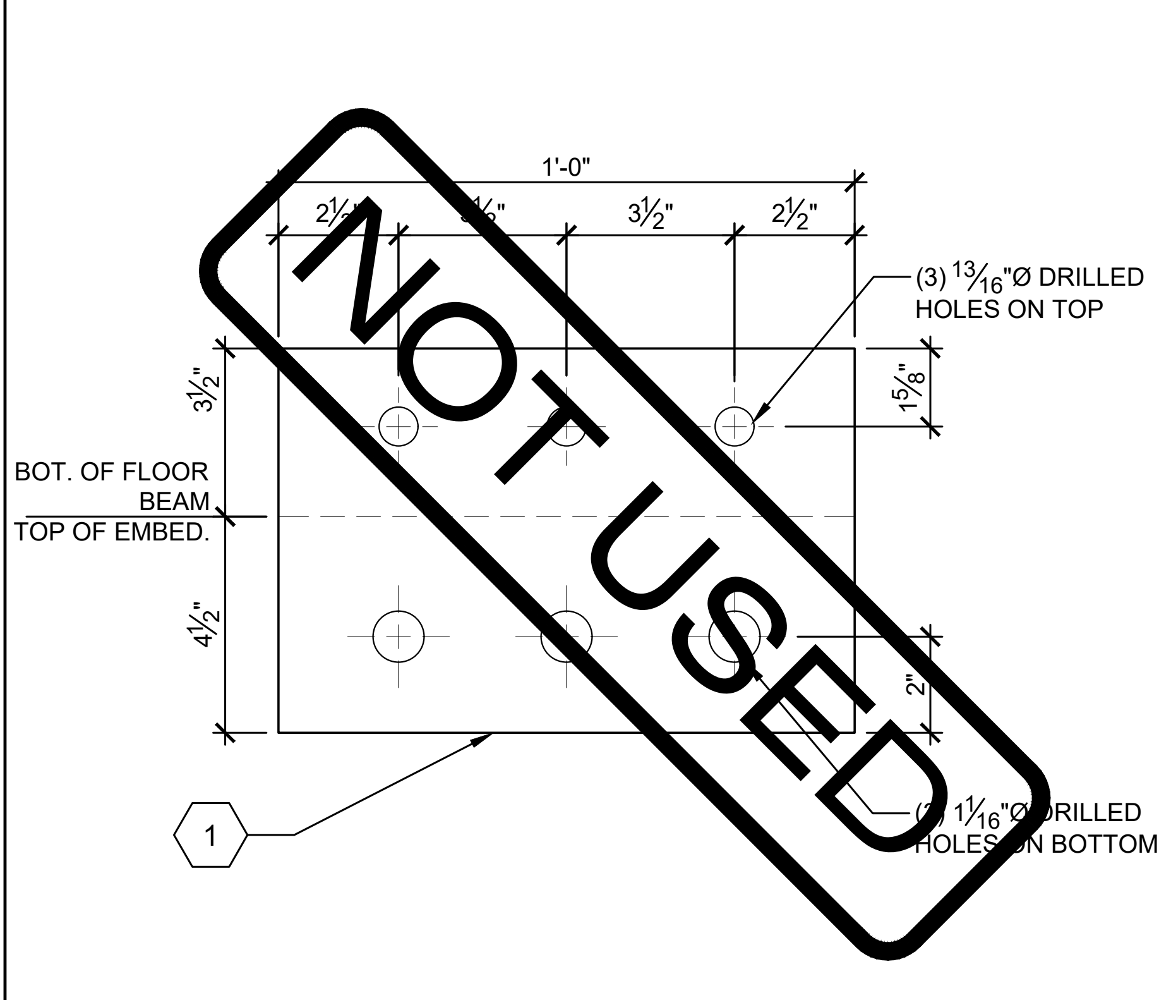
SHEET NUMBER:

S1.5


NOT USED
FLOOR BEAM PER FLOOR FRAMING PLANS
DECK SUPPORT / BEAM REINF. CHANNEL PER FLOOR FRAMING PLANS
WASHER PLATE PER FLOOR FRAMING SHEETS
STIFFENER ℓ's PER FLOOR FRAMING SHEETS
FOOTING PER PLAN
0" MIN. 2" MAX.
1 1/2" MIN. 3 1/2" MAX.
OUTSIDE OF HSS TO ALWAYS LINE-UP WITH OUTSIDE FACE OF FOOTING
WIDER FOOTING WHEN OCCURS PER FOUNDATION PLAN
FOR ALTERNATE DIRECT WELD CONNECTION TO BE USED IN LIEU OF SIDE PLATE - SEE 17/-
NOTE: SEE 12/- FOR ADDITIONAL FOOTING REINFORCEMENT @ ANCHOR
ELEVATION
SECTION

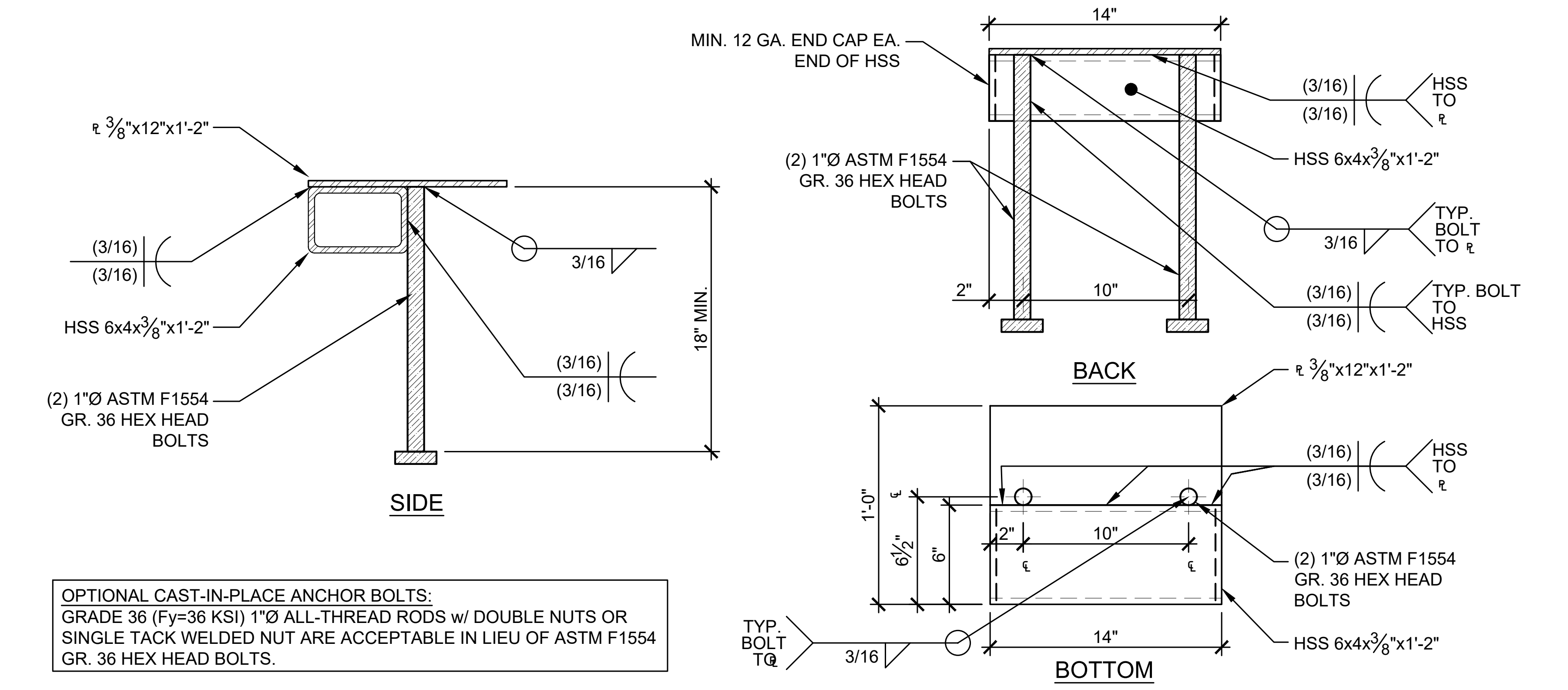
## STANDARD ANCHORAGE DETAIL

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



## SIDE PLATE DETAIL

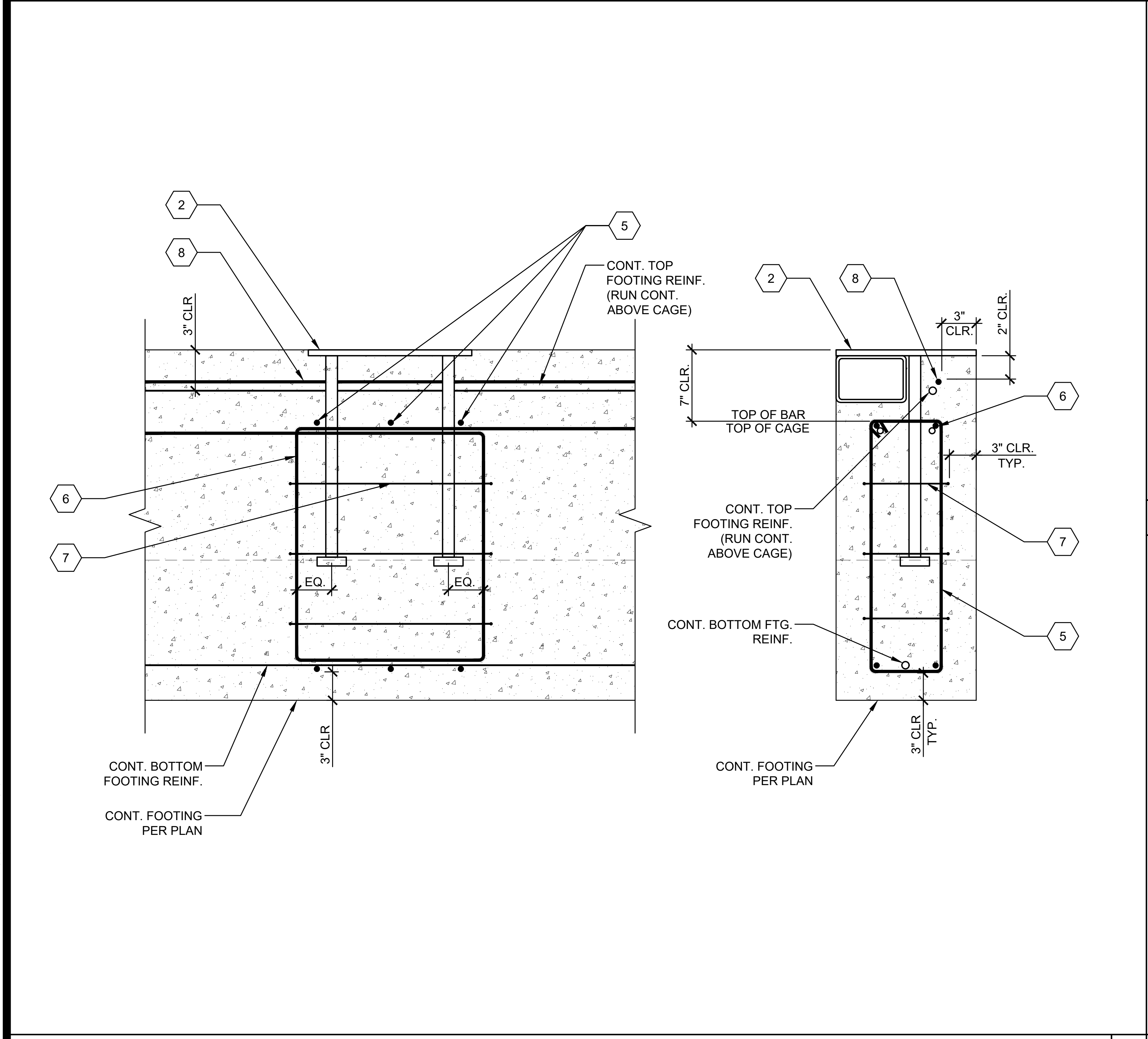
SCALE: 3" = 1'-0" 3



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.

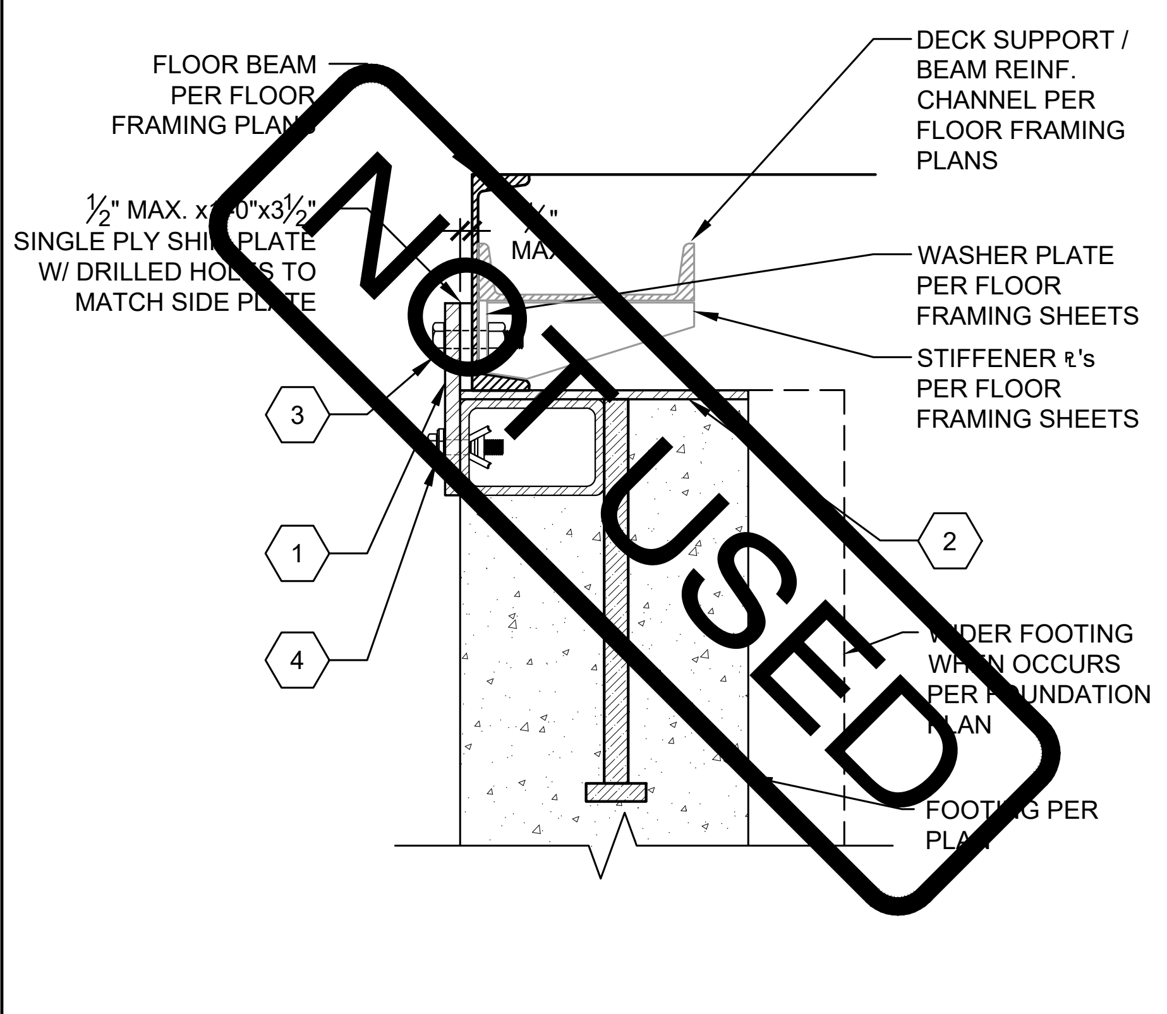
## EMBEDDED ANCHOR DETAIL

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



## EMBEDDED ANCHOR REINFORCEMENT DETAIL

SCALE: 1-1/2" = 1'-0" 12


NOT USED
FLOOR BEAM PER FLOOR FRAMING PLANS
1/2" MAX. x1'-0"x3 1/2" SINGLE PLY SHIM PLATE W/ DRILLED HOLES TO MATCH SIDE PLATE
DECK SUPPORT / BEAM REINF. CHANNEL PER FLOOR FRAMING PLANS
MAX.
WASHER PLATE PER FLOOR FRAMING SHEETS
STIFFENER ℓ's PER FLOOR FRAMING SHEETS
3
1
4
2
WIDER FOOTING WHEN OCCURS PER FOUNDATION PLAN
FOOTING PER PLAN

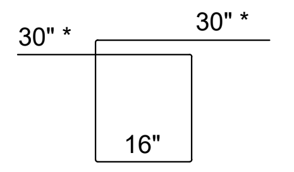
## OPT. SHIM @ TOP

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

## NOT USED

9

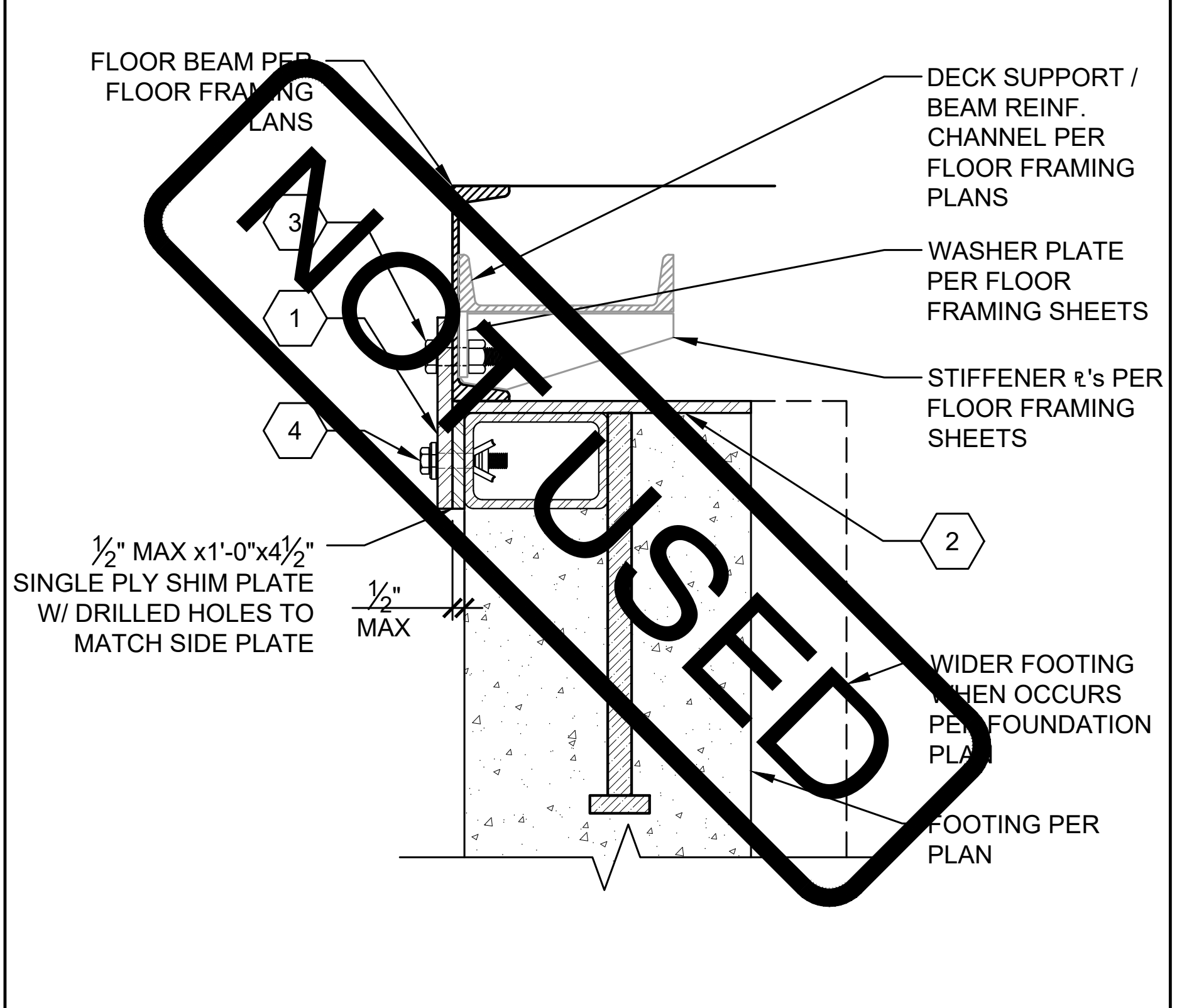
1. 1/2"x8"x1'-0" (36 KSI) OR 3/8"x8"x1'-0" (50 KSI) SIDE PLATE. LOCATION PER PLAN - SEE 3/-
2. EMBEDDED ANCHOR. LOCATION PER PLAN - SEE 5/-
3. (3) 3/4"Ø M.B. THRU-BOLTED THROUGH SIDE ℓ & FLOOR BEAM w/ 13/16"Ø HOLES - SEE 8/- FOR OPTIONAL SHIM DETAIL.
4. (3) 5/8"Ø LHBM16 "HOLLO-BOLT" EXPANSION BOLTS PER ICC ESR-3330 THROUGH SIDE ℓ INTO THE HSS OF THE EMBEDDED ANCHOR w/ 1 1/16"Ø HOLES
   - SEE GENERAL NOTES FOR SPECS. & INSTALLATION REQUIREMENTS,
   - SEE 13/- FOR OPTIONAL SHIM DETAIL.
5. (3) #3 VERTICAL HOOPS PER 12/-, FORMED PER 5/S1.4 & EVENLY SPACED @ 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


NOT USED
FLOOR BEAM PER FLOOR FRAMING PLANS
DECK SUPPORT / BEAM REINF. CHANNEL PER FLOOR FRAMING PLANS
WASHER PLATE PER FLOOR FRAMING SHEETS
STIFFENER ℓ's PER FLOOR FRAMING SHEETS
3
1
4
2
1/2" MAX x1'-0"x4 1/2" SINGLE PLY SHIM PLATE W/ DRILLED HOLES TO MATCH SIDE PLATE
1/2" MAX
WIDER FOOTING WHEN OCCURS PER FOUNDATION PLAN
FOOTING PER PLAN

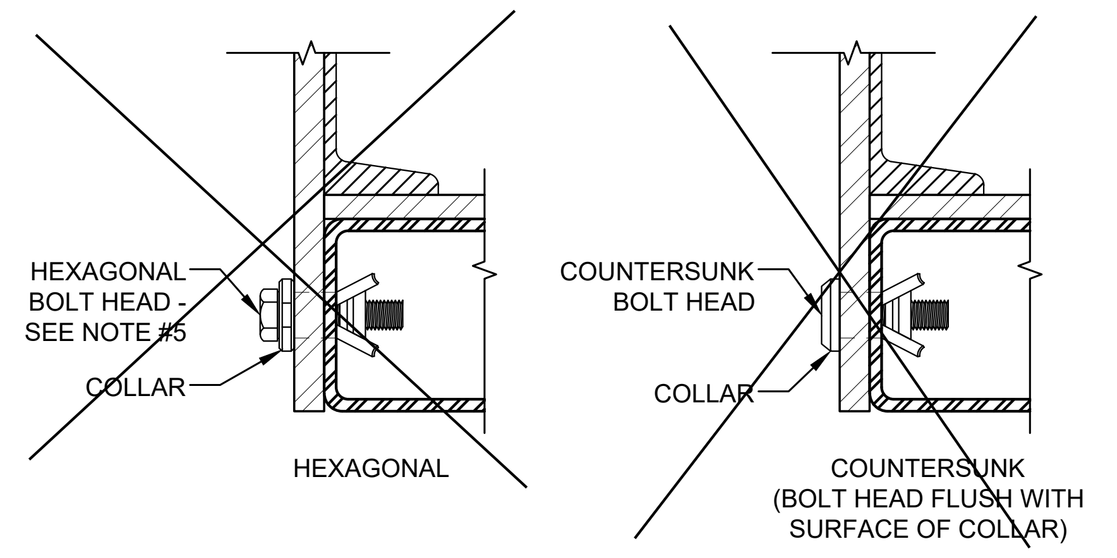
## OPT. SHIM @ BOT

SCALE: 1-1/2" = 1'-0" 13

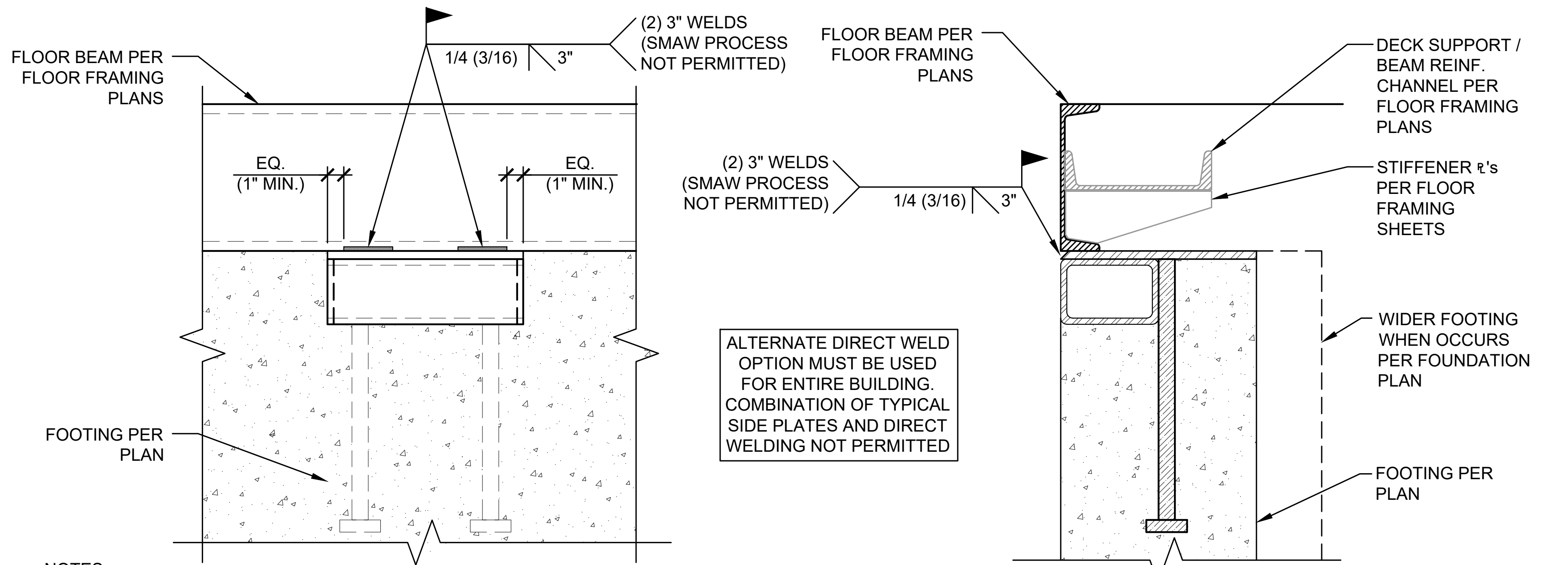
## NOT USED

14

1. DETAILS ON THIS SHEET SHALL APPLY WHERE STANDARD ANCHORAGE IS SPECIFIED ON THE FOUNDATION PLANS.
2. EACH ANCHORAGE POINT SPECIFIED ON PLAN SHALL CONSIST OF AN EMBEDDED ANCHOR ~~AND EITHER A BOLTED SIDE PLATE OR ALTERNATE~~ DIRECT WELD 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~~.


HEXAGONAL BOLT HEAD - SEE NOTE #5
COLLAR
HEXAGONAL
COUNTERSUNK BOLT HEAD
COLLAR
COUNTERSUNK (BOLT HEAD FLUSH WITH SURFACE OF COLLAR)

7. ~~UPGRADED ANCHORAGE PER SHEET S1.6B MAY BE USED AS AN ALTERNATIVE TO STANDARD ANCHORAGE WHERE STANDARD ANCHORAGE IS SPECIFIED ON PLANS~~.

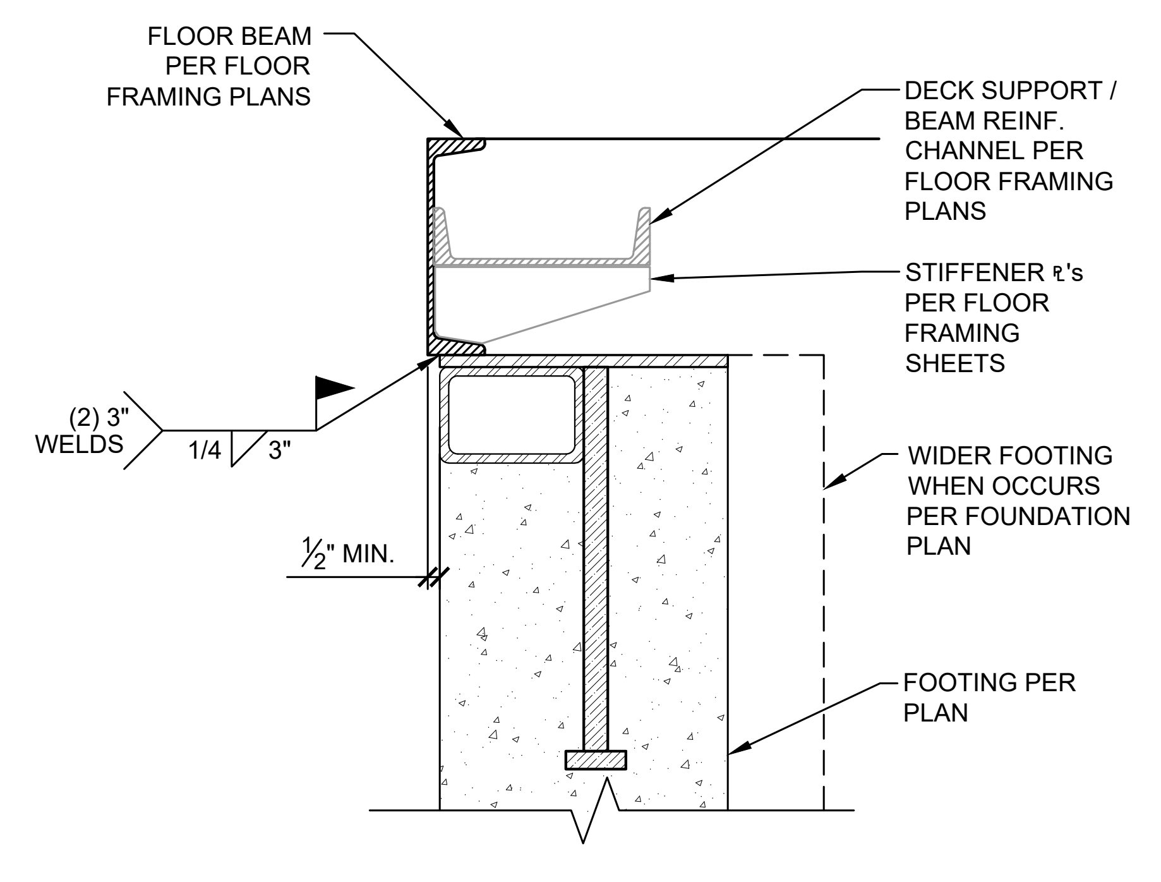

FLOOR BEAM PER FLOOR FRAMING PLANS
1/4 (3/16) 3"
(2) 3" WELDS (SMAW PROCESS NOT PERMITTED)
EQ. (1" MIN.)
EQ. (1" MIN.)
FOOTING PER PLAN
FLOOR BEAM PER FLOOR FRAMING PLANS
(2) 3" WELDS (SMAW PROCESS NOT PERMITTED)
1/4 (3/16) 3"
DECK SUPPORT / BEAM REINF. CHANNEL PER FLOOR FRAMING PLANS
STIFFENER ℓ's PER FLOOR FRAMING SHEETS
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.

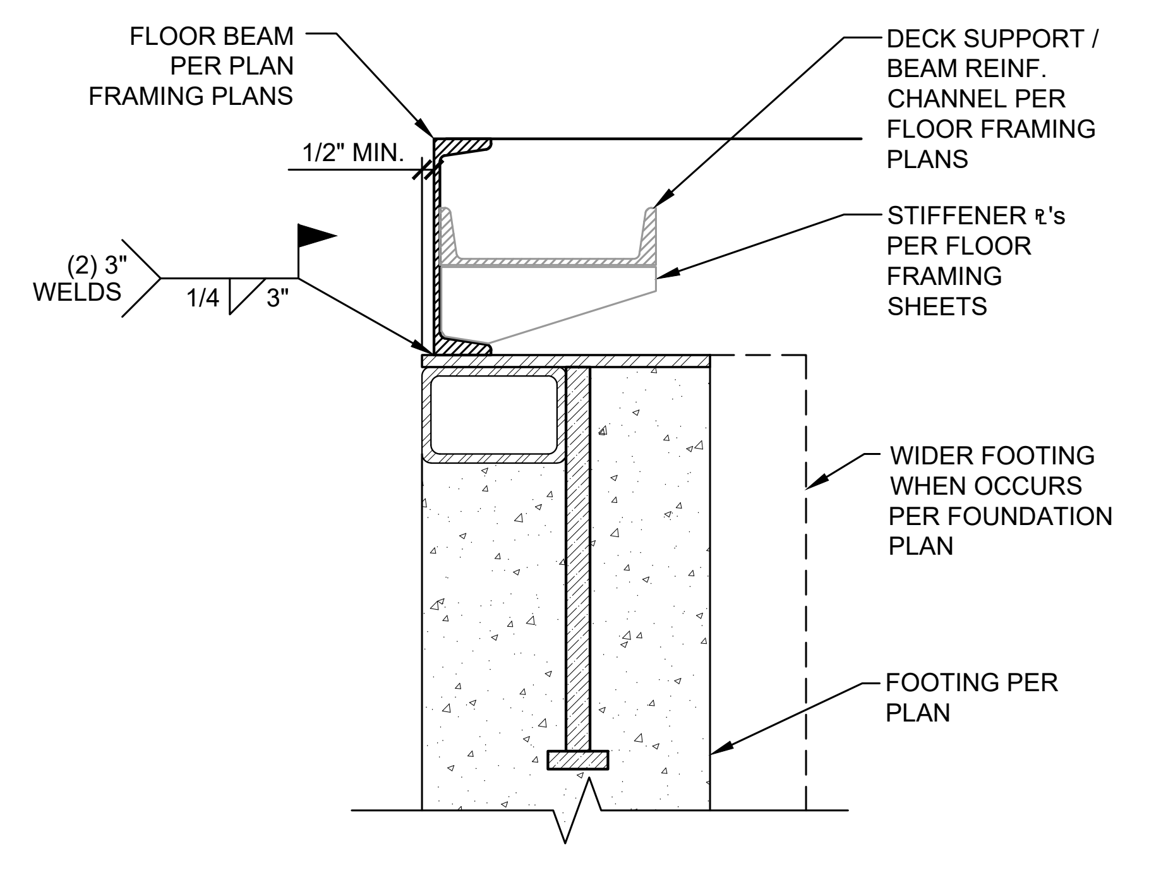
## ALTERNATE DIRECT WELD CONNECTION

SCALE: 1-1/2" = 1'-0" 17


FLOOR BEAM PER FLOOR FRAMING PLANS
DECK SUPPORT / BEAM REINF. CHANNEL PER FLOOR FRAMING PLANS
STIFFENER ℓ's PER FLOOR FRAMING SHEETS
(2) 3" WELDS
1/4 3"
1/2" 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 PLAN PER FRAMING PLANS
1/2" MIN.
(2) 3" WELDS
1/4 3"
DECK SUPPORT / BEAM REINF. CHANNEL PER FLOOR FRAMING PLANS
STIFFENER ℓ's PER FLOOR FRAMING SHEETS
WIDER FOOTING WHEN OCCURS PER FOUNDATION PLAN
FOOTING PER PLAN

## ALTERNATE DIRECT WELD @ OFFSET

SCALE: 1-1/2" = 1'-0" 19

## GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
.
.
.

APPROVED
DIV. OF THE STATE ARCHITECT
~~APP: 04-122050 PC~~
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 12/11/2023

☐ **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
11/21/2023

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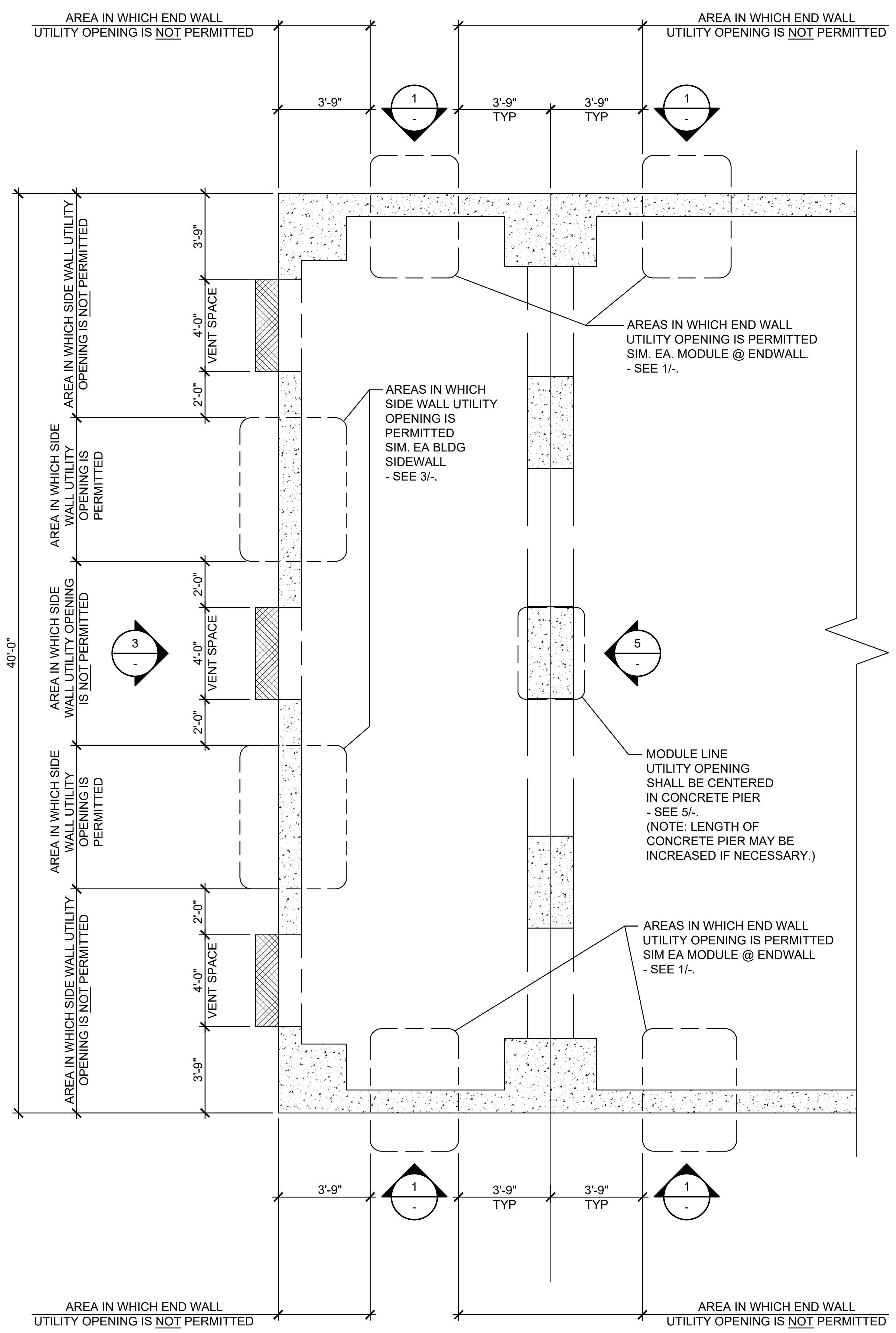
△1
△2
△3
△4

| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

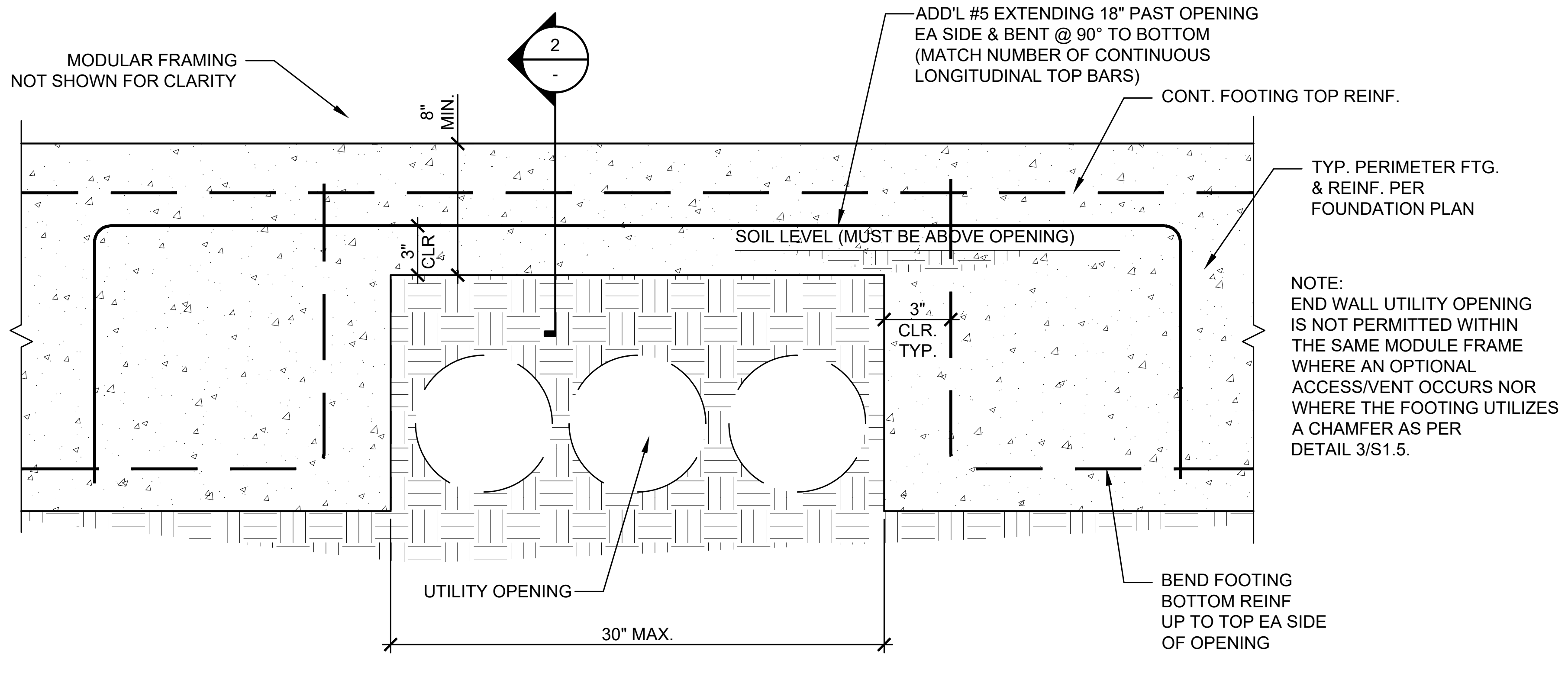
SHEET TITLE:
STANDARD ANCHORAGE
FOUNDATION DETAILS

SHEET NUMBER:
S1.6A


AREA IN WHICH END WALL UTILITY OPENING IS NOT PERMITTED
AREA IN WHICH END WALL UTILITY OPENING IS NOT PERMITTED
3'-9"
3'-9" TYP
3'-9" TYP
1 -
1 -
40'-0"
AREA IN WHICH SIDE WALL UTILITY OPENING IS NOT PERMITTED
3'-9"
4'-0" VENT SPACE
2'-0"
AREAS IN WHICH END WALL UTILITY OPENING IS PERMITTED SIM. EA. MODULE @ ENDWALL. - SEE 1/-.
AREAS IN WHICH SIDE WALL UTILITY OPENING IS PERMITTED SIM. EA BLDG SIDEWALL - SEE 3/-.
AREA IN WHICH SIDE WALL UTILITY OPENING IS PERMITTED
2'-0"
AREA IN WHICH SIDE WALL UTILITY OPENING IS NOT PERMITTED
4'-0" VENT SPACE
2'-0"
3 -
5 -
MODULE LINE UTILITY OPENING SHALL BE CENTERED IN CONCRETE PIER - SEE 5/-. (NOTE: LENGTH OF CONCRETE PIER MAY BE INCREASED IF NECESSARY.)
AREA IN WHICH SIDE WALL UTILITY OPENING IS PERMITTED
2'-0"
AREAS IN WHICH END WALL UTILITY OPENING IS PERMITTED SIM EA MODULE @ ENDWALL - SEE 1/-.
AREA IN WHICH SIDE WALL UTILITY OPENING IS NOT PERMITTED
4'-0" VENT SPACE
3'-9"
3'-9"
3'-9" TYP
3'-9" TYP
1 -
1 -
AREA IN WHICH END WALL UTILITY OPENING IS NOT PERMITTED
AREA IN WHICH END WALL UTILITY OPENING IS NOT PERMITTED

## ☐ OPTIONAL UTILITY OPENINGS PLAN

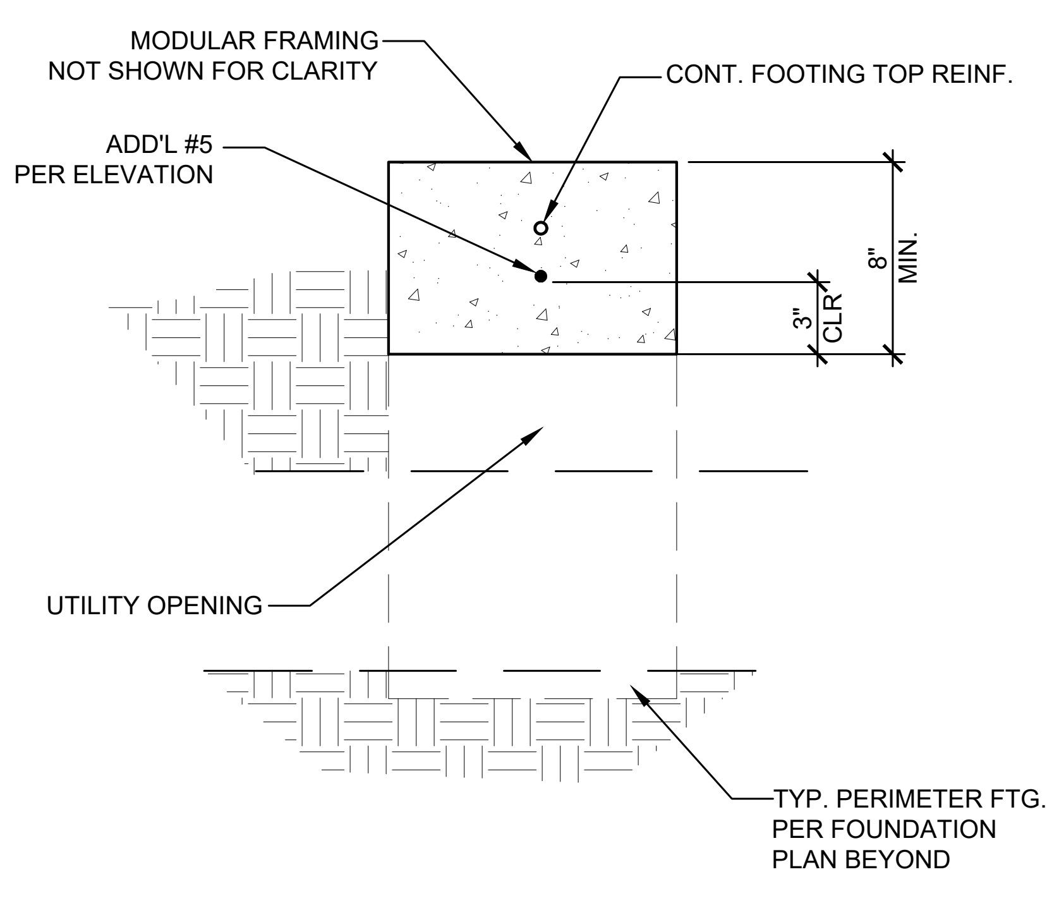
SCALE: 1/4"=1'-0" A


MODULAR FRAMING NOT SHOWN FOR CLARITY
2 -
8" MIN.
ADD'L #5 EXTENDING 18" PAST OPENING EA SIDE & BENT @ 90° TO BOTTOM (MATCH NUMBER OF CONTINUOUS LONGITUDINAL TOP BARS)
CONT. FOOTING TOP REINF.
TYP. PERIMETER FTG. & REINF. PER FOUNDATION PLAN
SOIL LEVEL (MUST BE ABOVE OPENING)
3" CLR
3" CLR. TYP.
UTILITY OPENING
30" MAX.
BEND FOOTING BOTTOM REINF UP TO TOP EA SIDE OF OPENING

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.

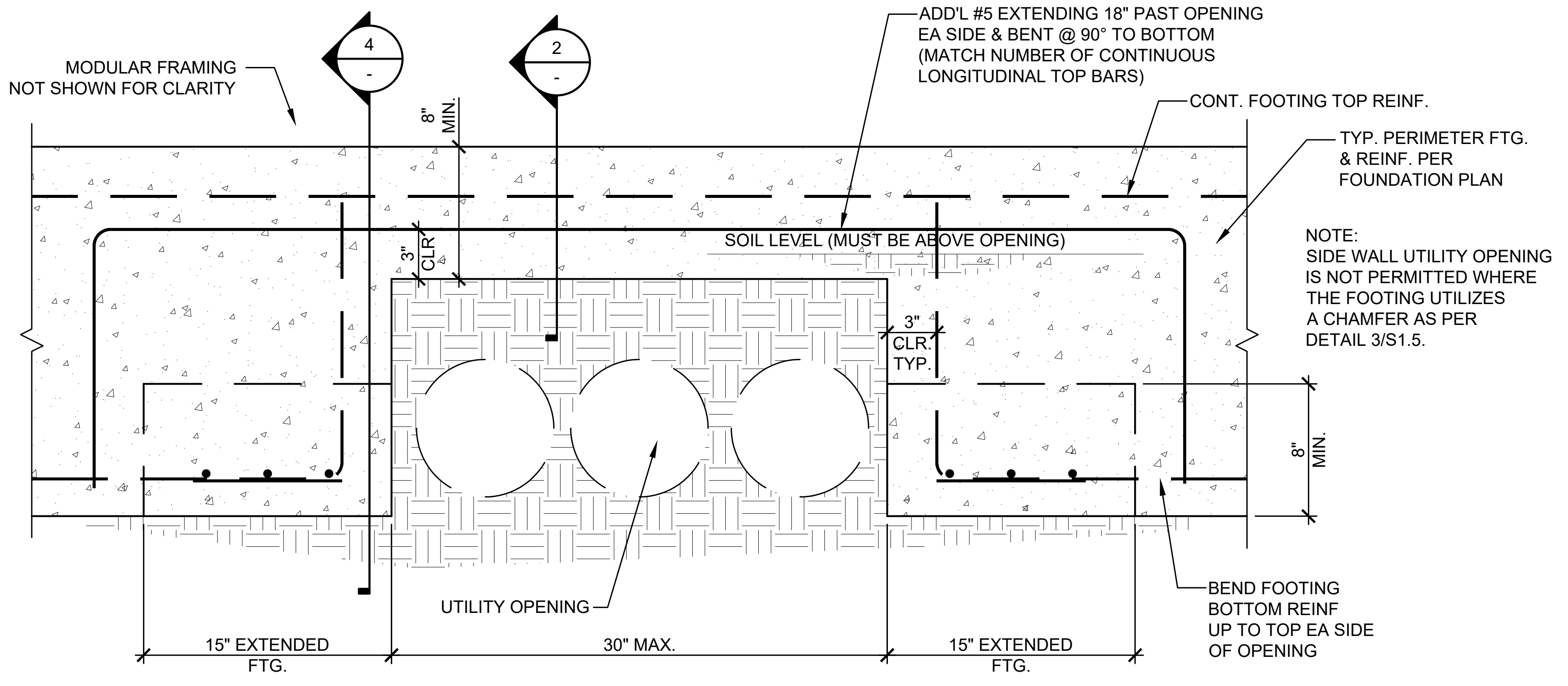
## ☐ OPTIONAL UTILITY OPENINGS IN END WALL FOOTINGS

N.T.S. 1


MODULAR FRAMING NOT SHOWN FOR CLARITY
CONT. FOOTING TOP REINF.
ADD'L #5 PER ELEVATION
8" MIN.
3" CLR
UTILITY OPENING
TYP. PERIMETER FTG. PER FOUNDATION PLAN BEYOND

## DETAIL

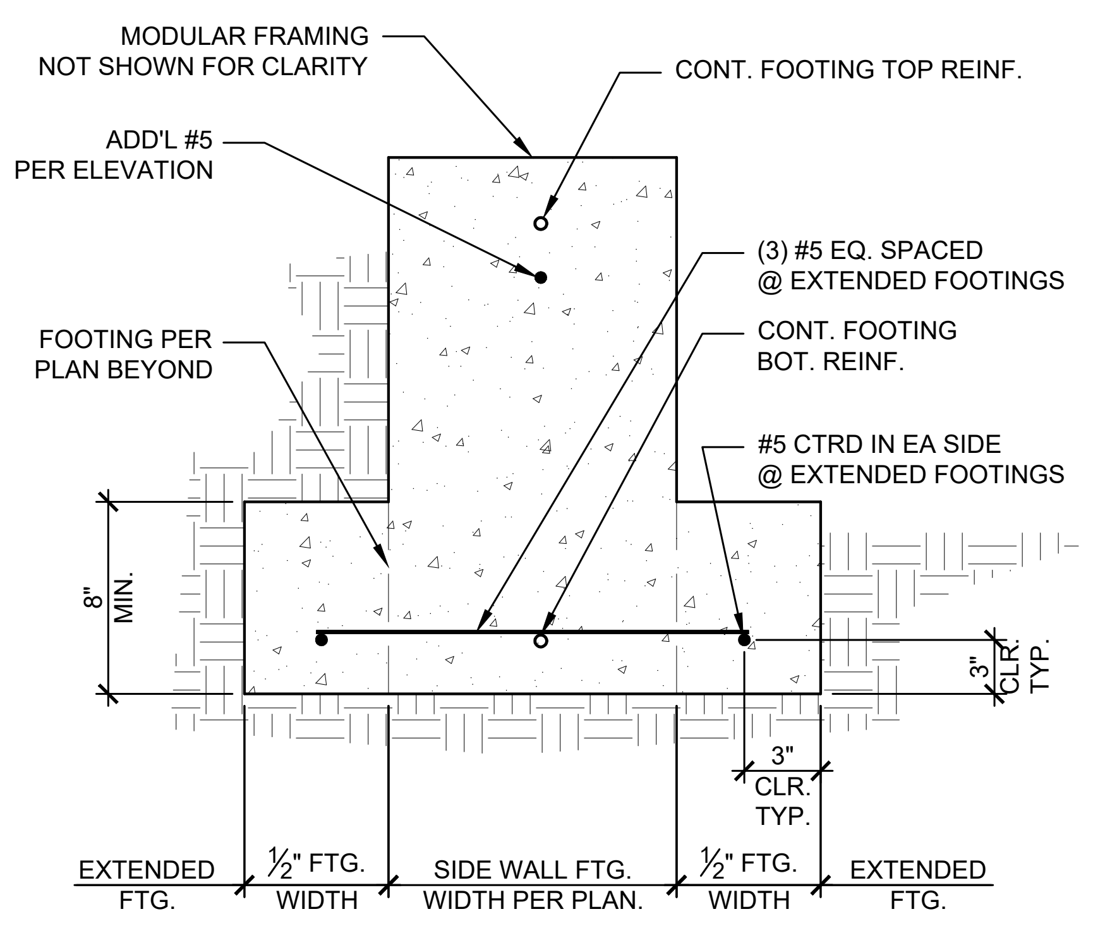
N.T.S. 2


MODULAR FRAMING NOT SHOWN FOR CLARITY
4 -
2 -
8" MIN.
ADD'L #5 EXTENDING 18" PAST OPENING EA SIDE & BENT @ 90° TO BOTTOM (MATCH NUMBER OF CONTINUOUS LONGITUDINAL TOP BARS)
CONT. FOOTING TOP REINF.
TYP. PERIMETER FTG. & REINF. PER FOUNDATION PLAN
SOIL LEVEL (MUST BE ABOVE OPENING)
3" CLR
3" CLR. TYP.
8" MIN.
UTILITY OPENING
BEND FOOTING BOTTOM REINF UP TO TOP EA SIDE OF OPENING
15" EXTENDED FTG.
30" MAX.
15" EXTENDED FTG.

NOTE:
SIDE WALL UTILITY OPENING IS NOT PERMITTED WHERE THE FOOTING UTILIZES A CHAMFER AS PER DETAIL 3/S1.5.

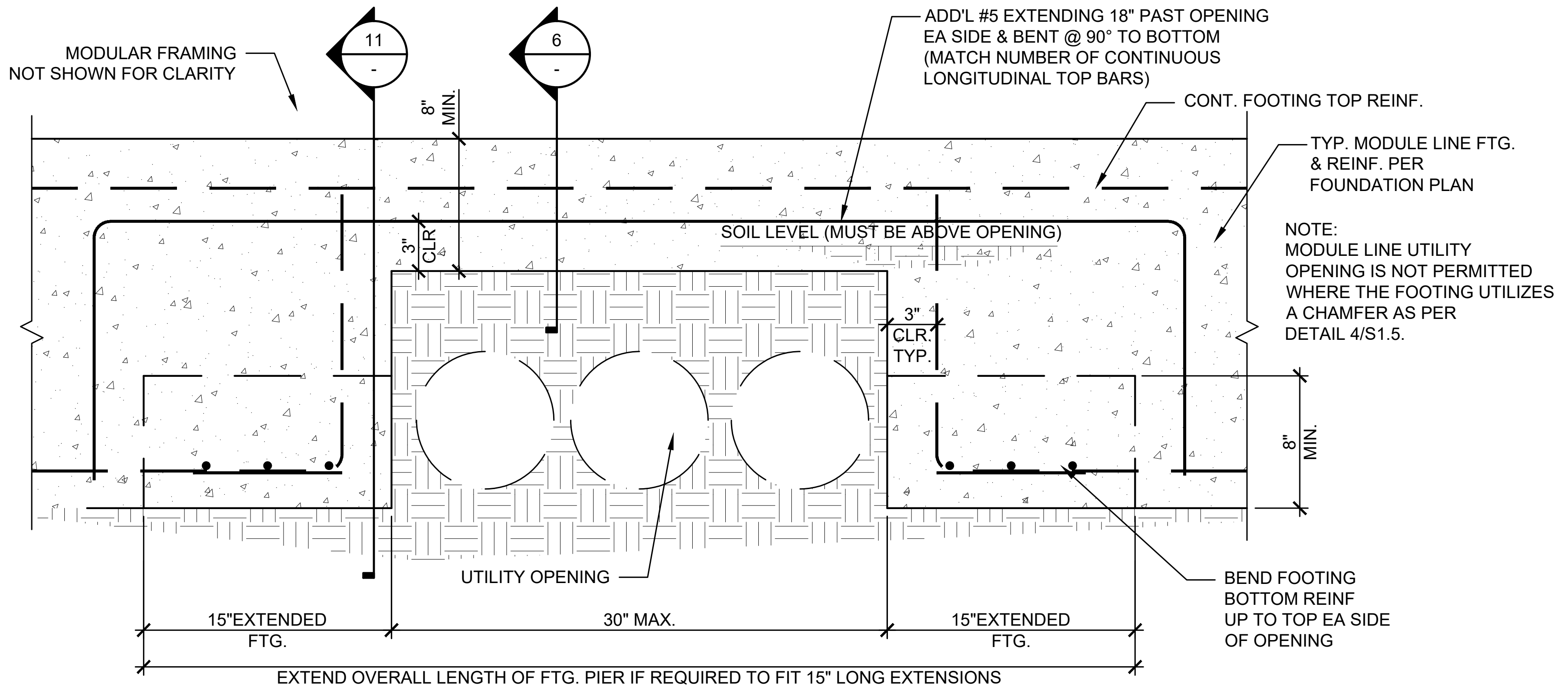
## ☐ OPTIONAL UTILITY OPENINGS IN SIDE WALL FOOTINGS

N.T.S. 3


MODULAR FRAMING NOT SHOWN FOR CLARITY
CONT. FOOTING TOP REINF.
ADD'L #5 PER ELEVATION
(3) #5 EQ. SPACED @ EXTENDED FOOTINGS
FOOTING PER PLAN BEYOND
CONT. FOOTING BOT. REINF.
#5 CTRD IN EA SIDE @ EXTENDED FOOTINGS
8" MIN.
3" CLR. TYP.
3" CLR. TYP.
EXTENDED FTG.
½" FTG. WIDTH
SIDE WALL FTG. WIDTH PER PLAN.
½" FTG. WIDTH
EXTENDED FTG.

## DETAIL

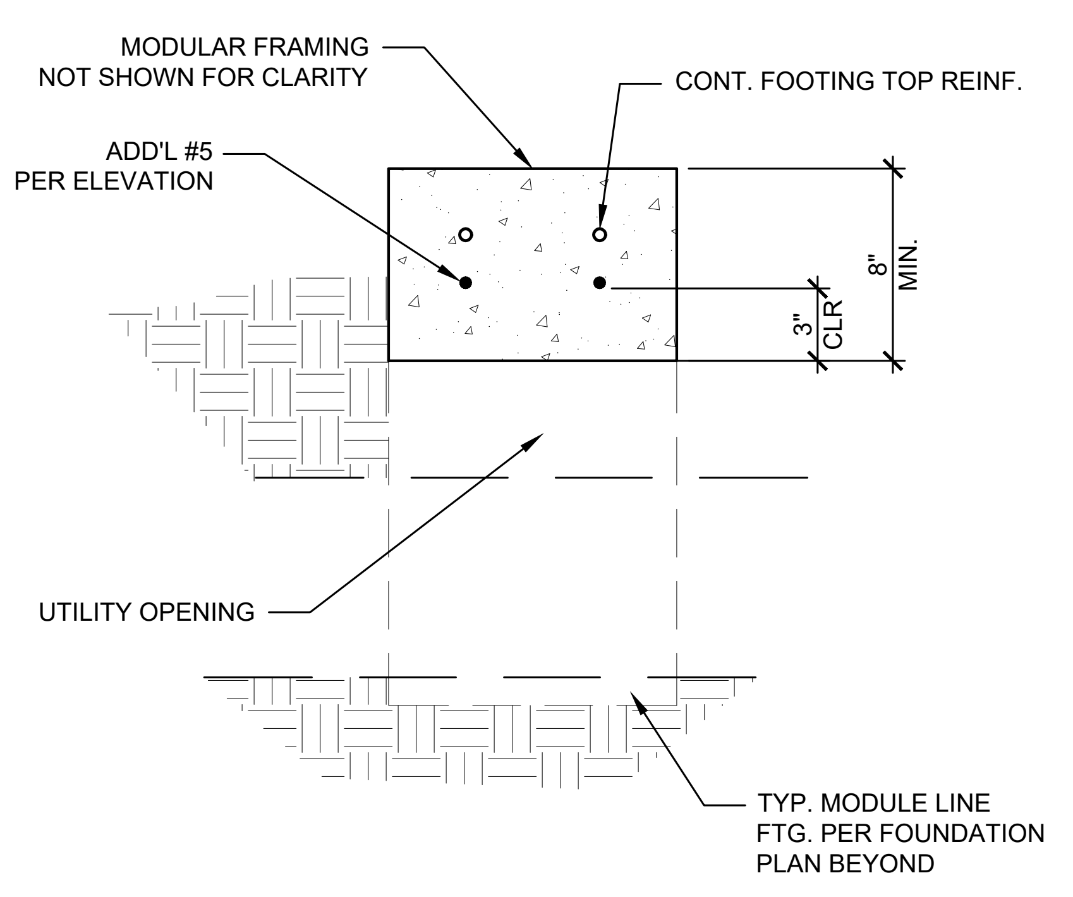
N.T.S. 4


MODULAR FRAMING NOT SHOWN FOR CLARITY
11 -
6 -
8" MIN.
ADD'L #5 EXTENDING 18" PAST OPENING EA SIDE & BENT @ 90° TO BOTTOM (MATCH NUMBER OF CONTINUOUS LONGITUDINAL TOP BARS)
CONT. FOOTING TOP REINF.
TYP. MODULE LINE FTG. & REINF. PER FOUNDATION PLAN
SOIL LEVEL (MUST BE ABOVE OPENING)
3" CLR
3" CLR. TYP.
8" MIN.
UTILITY OPENING
BEND FOOTING BOTTOM REINF UP TO TOP EA SIDE OF OPENING
15"EXTENDED FTG.
30" MAX.
15"EXTENDED FTG.
EXTEND OVERALL LENGTH OF FTG. PIER IF REQUIRED TO FIT 15" LONG EXTENSIONS

NOTE:
MODULE LINE UTILITY OPENING IS NOT PERMITTED WHERE THE FOOTING UTILIZES A CHAMFER AS PER DETAIL 4/S1.5.

## ☐ OPTIONAL UTILITY OPENINGS IN MODULE LINE FOOTINGS

N.T.S. 5


MODULAR FRAMING NOT SHOWN FOR CLARITY
CONT. FOOTING TOP REINF.
ADD'L #5 PER ELEVATION
8" MIN.
3" CLR
UTILITY OPENING
TYP. MODULE LINE FTG. PER FOUNDATION PLAN BEYOND

## DETAIL

N.T.S. 6

## NOT USED

7

## NOT USED

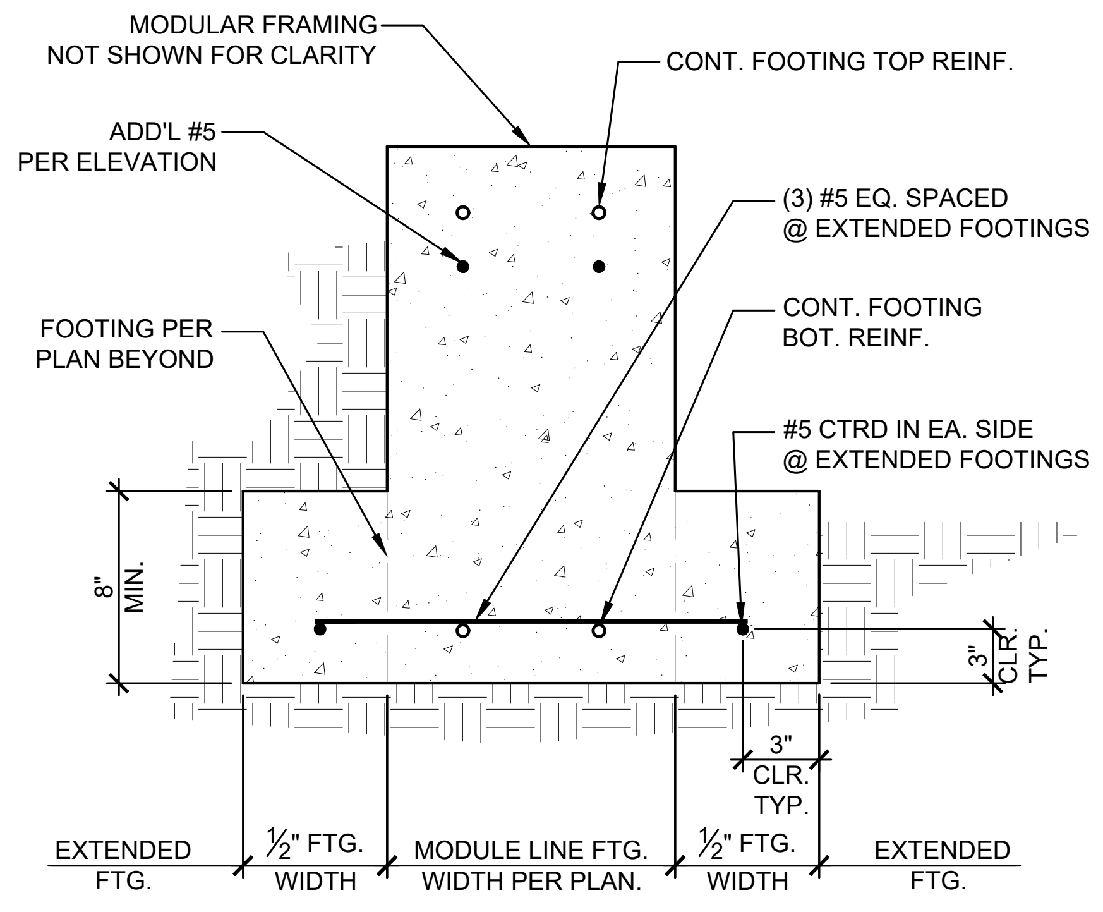
8

## NOT USED

9

## NOT USED

10


MODULAR FRAMING NOT SHOWN FOR CLARITY
CONT. FOOTING TOP REINF.
ADD'L #5 PER ELEVATION
(3) #5 EQ. SPACED @ EXTENDED FOOTINGS
FOOTING PER PLAN BEYOND
CONT. FOOTING BOT. REINF.
#5 CTRD IN EA. SIDE @ EXTENDED FOOTINGS
8" MIN.
3" CLR. TYP.
3" CLR. TYP.
EXTENDED FTG.
½" FTG. WIDTH
MODULE LINE FTG. WIDTH PER PLAN.
½" FTG. WIDTH
EXTENDED FTG.

## DETAIL

N.T.S. 11

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APP: 02-124133 INC:
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DATE: 4/08/2026

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

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

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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

11/21/2023

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| | |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |

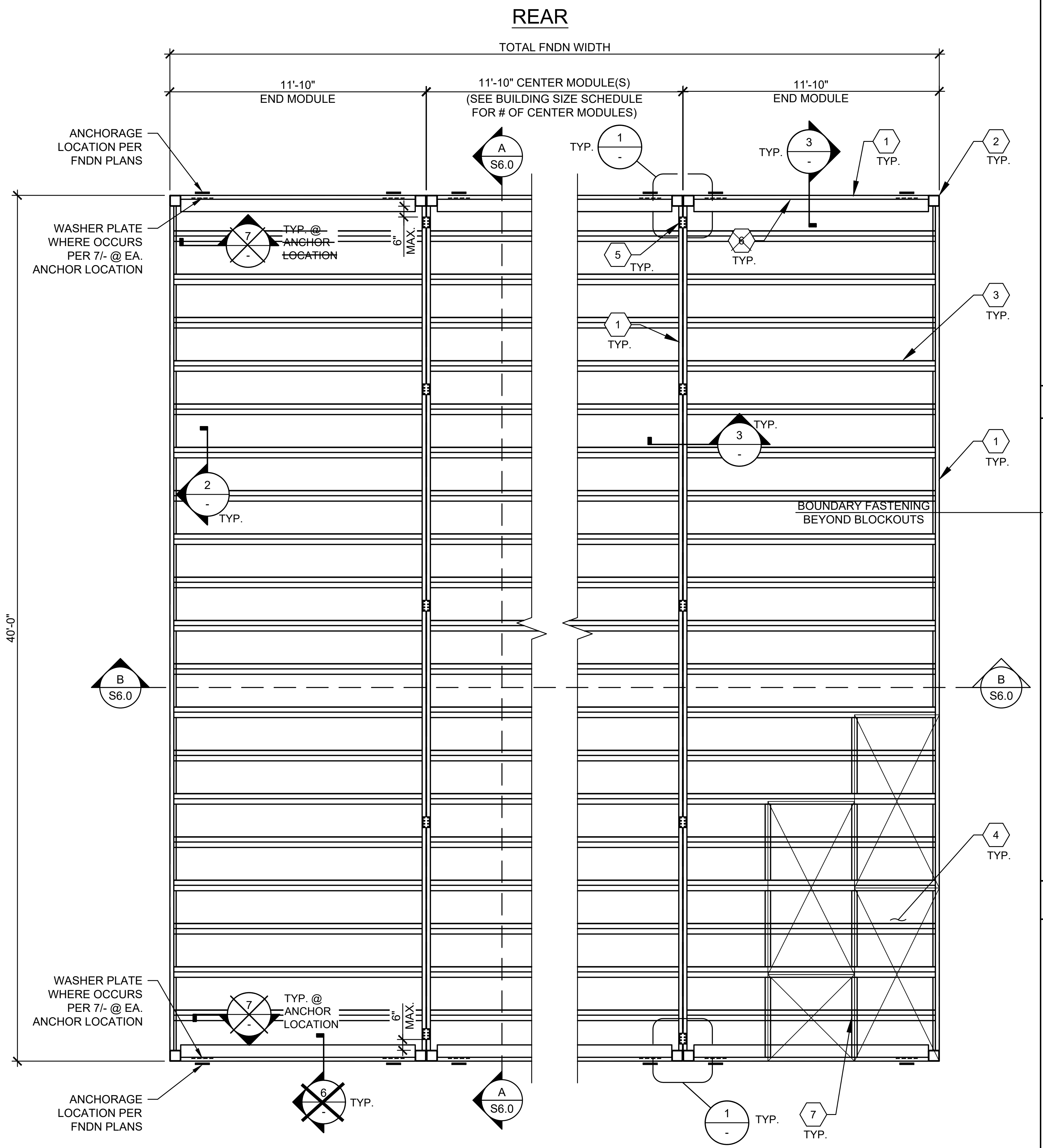
| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

CONCRETE FOUNDATION
OPTIONAL UTILITY
OPENINGS IN FOOTINGS

SHEET NUMBER:

S1.7


REAR
TOTAL FNDN WIDTH
11'-10"
END MODULE
11'-10" CENTER MODULE(S)
(SEE BUILDING SIZE SCHEDULE
FOR # OF CENTER MODULES)
11'-10"
END MODULE
ANCHORAGE LOCATION PER FNDN PLANS
WASHER PLATE WHERE OCCURS PER 7/- @ EA. ANCHOR LOCATION
~~TYP. @ ANCHOR LOCATION~~
6" MAX.
A
S6.0
1 TYP.
3 TYP.
1 TYP.
2 TYP.
5 TYP.
6 TYP.
3 TYP.
1 TYP.
2 TYP.
3 TYP.
1 TYP.
BOUNDARY FASTENING BEYOND BLOCKOUTS
40'-0"
B
S6.0
B
S6.0
4 TYP.
WASHER PLATE WHERE OCCURS PER 7/- @ EA. ANCHOR LOCATION
TYP. @ ANCHOR LOCATION
6" MAX.
ANCHORAGE LOCATION PER FNDN PLANS
6 TYP.
A
S6.0
1 TYP.
7 TYP.
FRONT

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. |
| ☐ 150 PSF | 18" O.C. | 24" O.C. |

NOTES:
FOR SECTION PROPERTIES - SEE S0.0
EITHER 14GA OR 12GA ARE ACCEPTABLE BASED ON CURRENT AVAILABILITIES.

## FRAMING PLAN (PLYWOOD FLOOR) A

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

| BUILDING SIZE SCHEDULE | | | |
|---|---|---|---|
| BUILDING SIZE (FT) | TOTAL # OF 12'-0" WIDE MODULES | TOTAL # OF CENTER MODULES | OVERALL BUILDING WIDTH[1] |
| ☐ 24'x40' | 2 | 0 | 23'-8½" |
| ☐ 36'x40' | 3 | 1 | 35'-6¾" |
| ☒ 48'x40' | 4 | 2 | 47'-5" |
| ☐ 60'x40' | 5 | 3 | 59'-3¼" |
| ☐ 72'x40' | 6 | 4 | 71'-1½" |
| ☐ 84'x40' | 7 | 5 | 82'-11¾" |
| ☐ 96'x40' | 8 | 6 | 94'-10" |
| ☐ 108'x40' | 9 | 7 | 106'-8¼" |
| ☐ 120'x40' | 10 | 8 | 118'-6½" |

NOTE:

1. TOTAL BUILDING WIDTH INCLUDES ¼" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS ~~S1.0~~, S1.1, ~~S1.2, & S1.3~~.

## BUILDING SIZE SCHEDULE

| TYP. FASTENER SPACING SCHEDULE | | |
|---|---|---|
| BOUNDARY FASTENING* | EDGE FASTENING | FIELD FASTENING |
| #12x2 ¼" 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

NOTES:
SCHEDULE APPLIES TO ALL FLOOR LIVE LOADS.
REFER TO GENERAL NOTE #3 FOR ICC ESR#

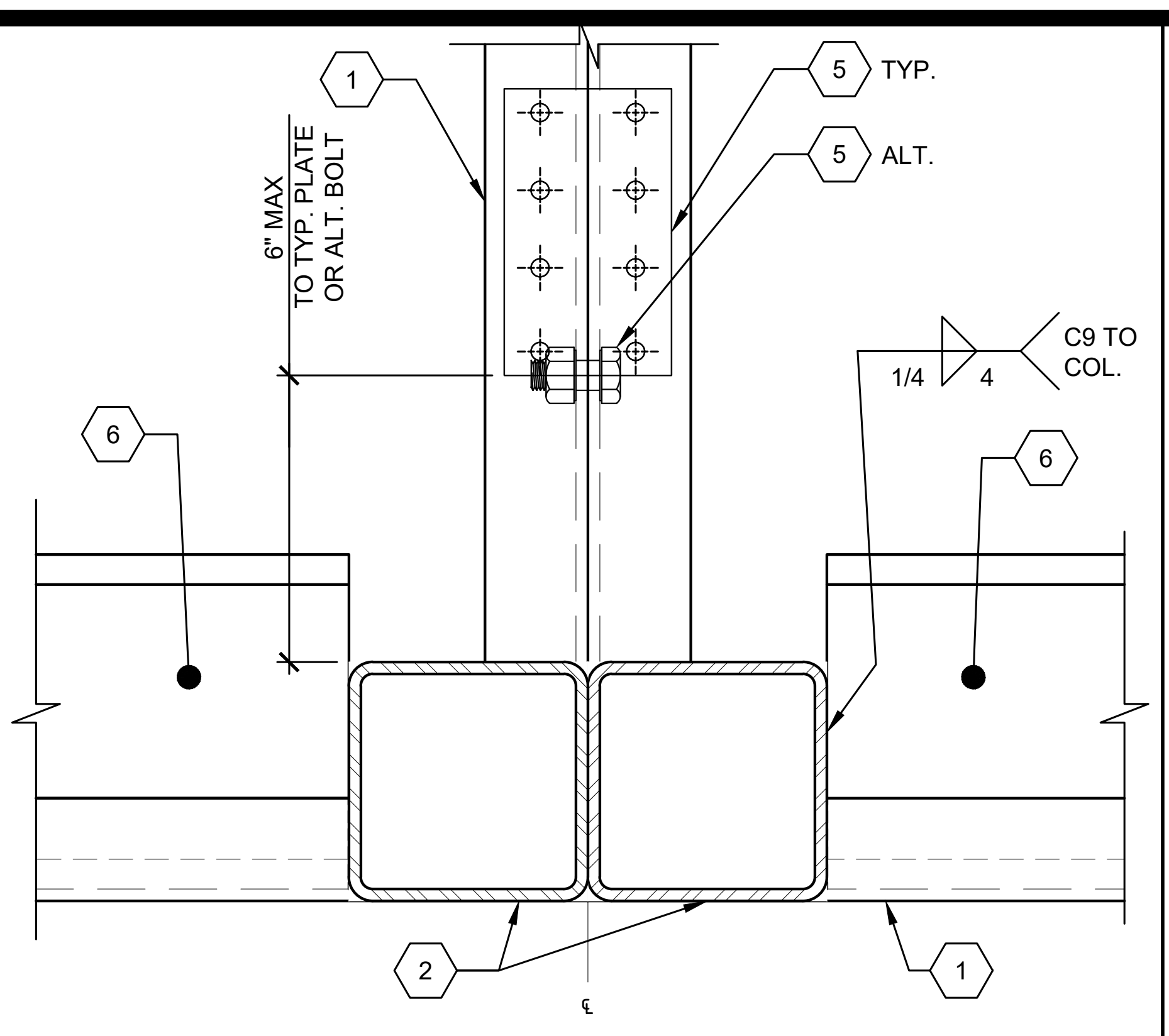
## FASTENER SPACING SCHEDULE

| ALT. FASTENER SPACING SCHEDULE | | |
|---|---|---|
| BOUNDARY FASTENING* | EDGE FASTENING | FIELD FASTENING |
| #12x2 ¼" SDSTS | #10 OR 12x2 ¼" SDSTS | #10 OR 12x2 ¼" SDSTS |
| 6" O.C. | 6" O.C. | 12" O.C. |

*BOUNDARY FASTENING IS APPLIED TO PERIMETER OF ALL MODULES ALONG FRAME LINES

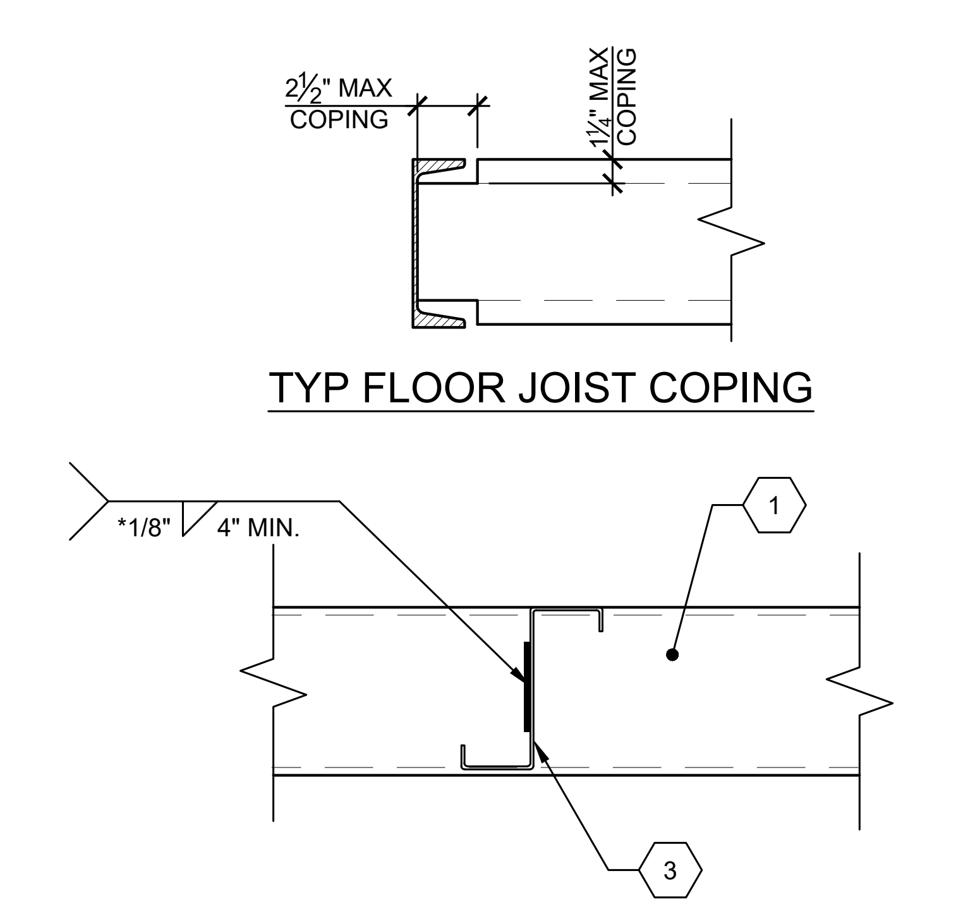
NOTES:
SCHEDULE APPLIES TO ALL FLOOR LIVE LOADS.
REFER TO GENERAL NOTE #3 FOR ICC ESR#

## ALT. FASTENER SPACING SCHEDULE



## TYP. FLOOR BEAMS CONNECTION 1

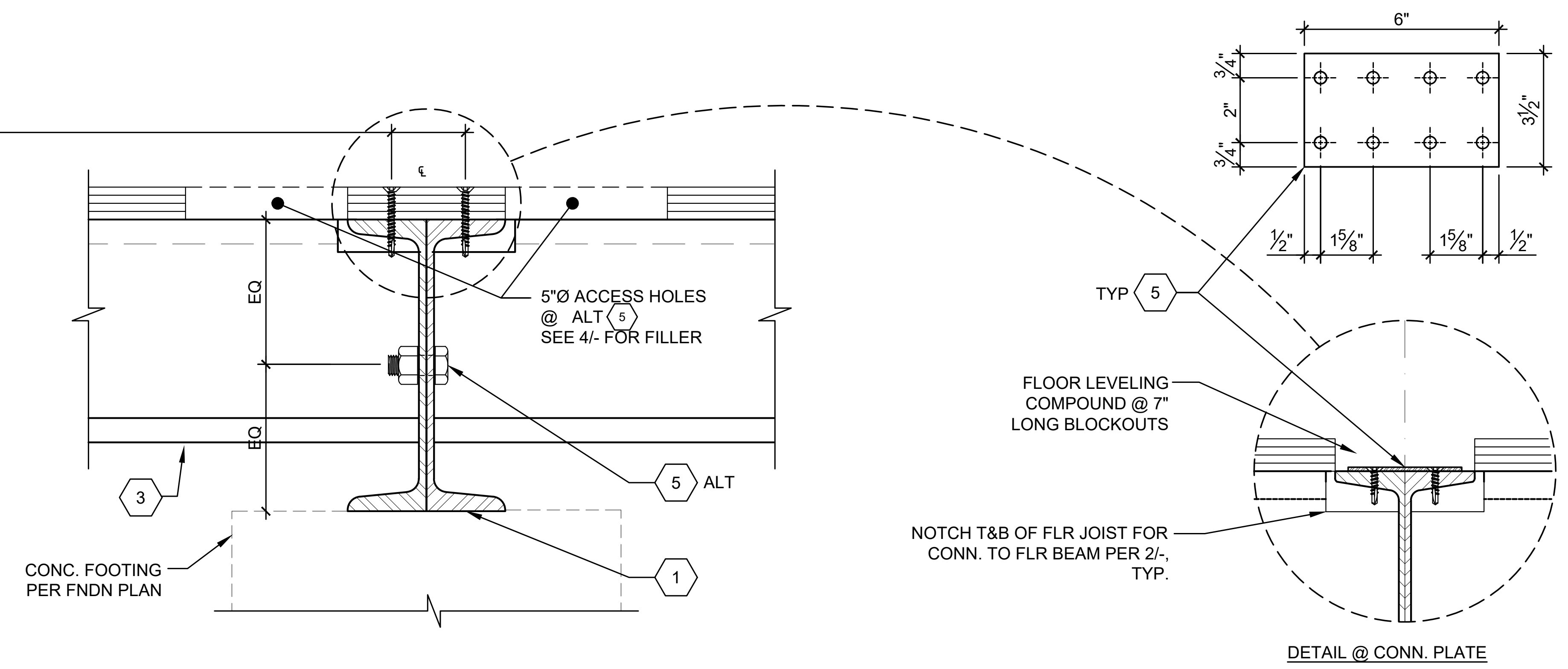
SCALE : 3" = 1'-0"



*NOTE: SEE NOTE #5 OF GENERAL NOTES

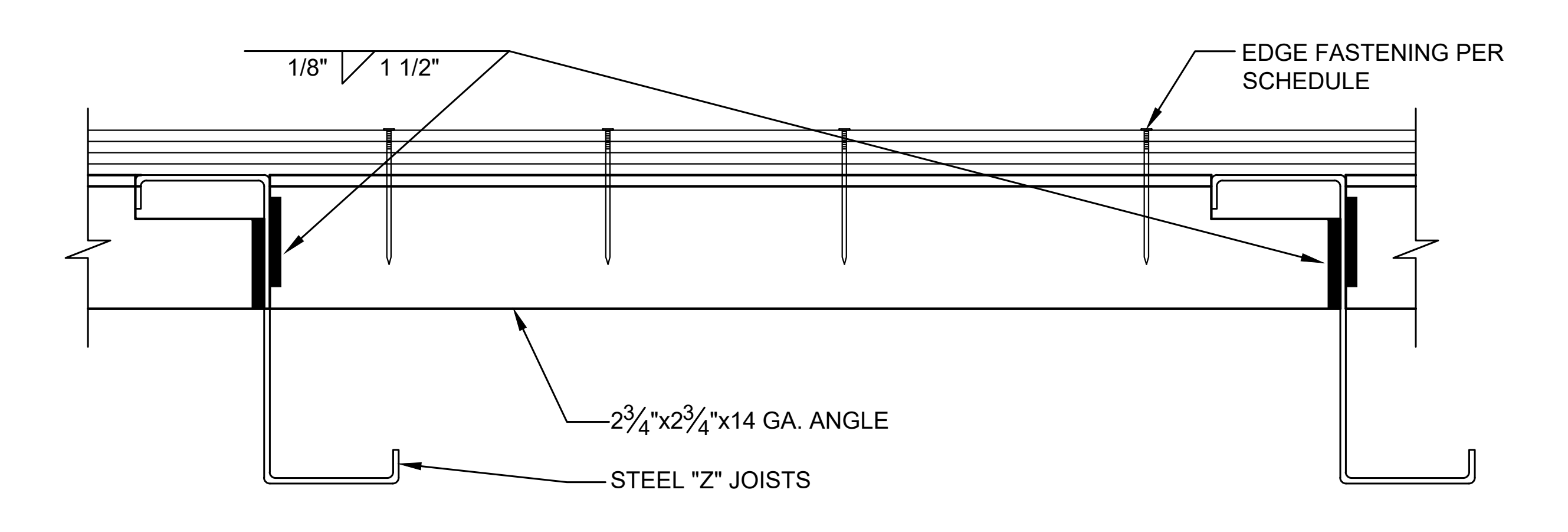
## TYP. JOIST ATTACTMENT TO BEAM 2

SCALE : 3" = 1'-0"


℄
EQ
EQ
5"Ø ACCESS HOLES @ ALT 5 SEE 4/- FOR FILLER
5 ALT
3
1
CONC. FOOTING PER FNDN PLAN
6"
¾"
2"
¾"
3½"
½"
1⅝"
1⅝"
½"
TYP 5
FLOOR LEVELING COMPOUND @ 7" LONG BLOCKOUTS
NOTCH T&B OF FLR JOIST FOR CONN. TO FLR BEAM PER 2/-, TYP.
DETAIL @ CONN. PLATE

## TYP. BEAM TO BEAM CONNECTION 3

SCALE : 3" = 1'-0"



## OPTIONAL BLOCKING ANGLE ATTACHMENT 5

SCALE : 3" = 1'-0"

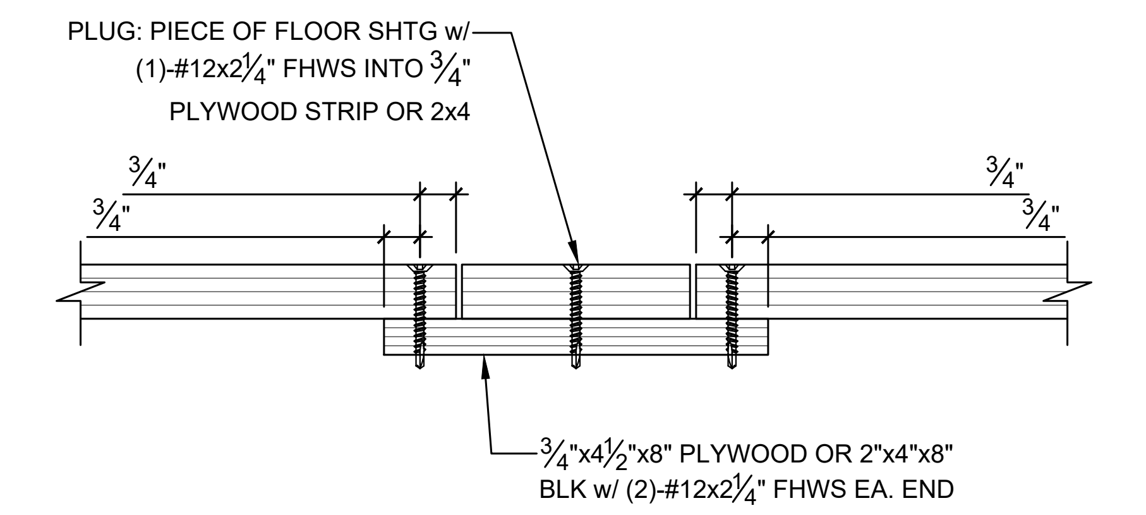
1. FLOOR BEAM PER SHEET S5.0.
   USE SINGLE SIZE CHANNEL THROUGHOUT FLOOR SYSTEM.
2. HSS COLUMN PER SHEET S5.0
3. FLOOR JOIST - SEE SCHEDULE
4. 1⅛" T&G PLYWOOD FLOOR SHTG STURDI-I-FLOOR 48" O.C. SPAN RATING EXP. 1 CONFORMING TO PS 1-19, 2 SPANS MIN. (EXCEPT CENTER PANEL @ MODULE END BAYS WHEN JOIST SPACING IS MORE THAN 24" O.C.) 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. PLATE ⅛"x3½"x6" @ 10'-0" O.C. MAX w/ (8) #12x1" SDSTS TO FLOOR BEAMS; SEE DETAIL 3/-.
   ALTERNATE: ½"Øx1½" MB @ 10'-0" O.C. MAX AND 6" MAX FROM EACH END OF MODULE. BOLT Ø ±$\frac{1}{16}$" MAX HOLE THRU CHANNELS; SEE DETAIL 3/-.
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.~~

~~NOTE: C9 CHANNEL AND REINFORCING ONLY REQUIRED AT BUILDINGS ON CONCRETE FOUNDATIONS.~~

## KEY NOTES

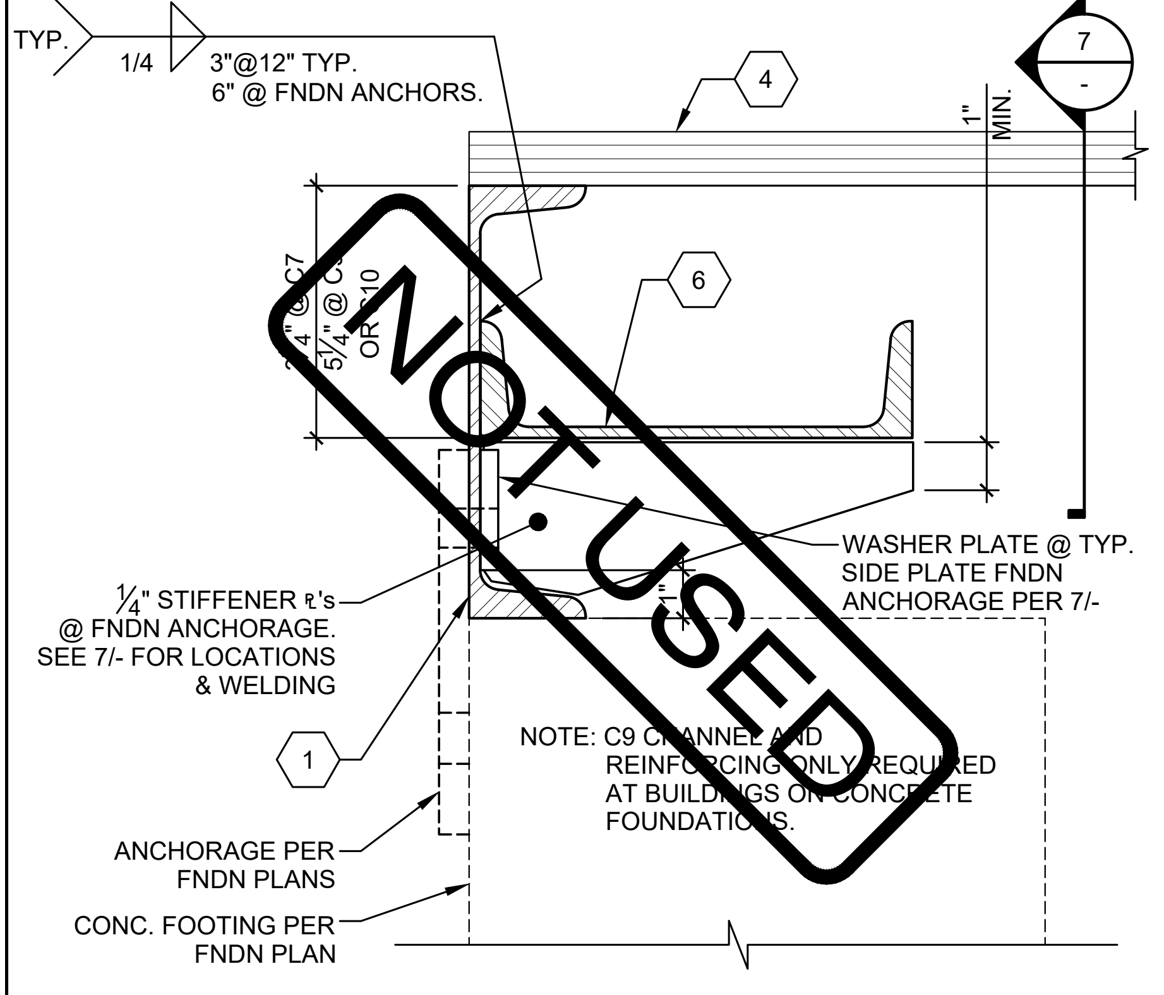
1. NOT USED
2. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.O. THE MATERIAL GAUGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
3. SDSTS PER ASTM C1513 AND ICC ESR-1976 (OR EQUAL)
4. 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)

## GENERAL NOTES


PLUG: PIECE OF FLOOR SHTG w/ (1)-#12x2¼" FHWS INTO ¾" PLYWOOD STRIP OR 2x4
¾"
¾"
¾"
¾"
¾"x4½"x8" PLYWOOD OR 2"x4"x8" BLK w/ (2)-#12x2¼" FHWS EA. END

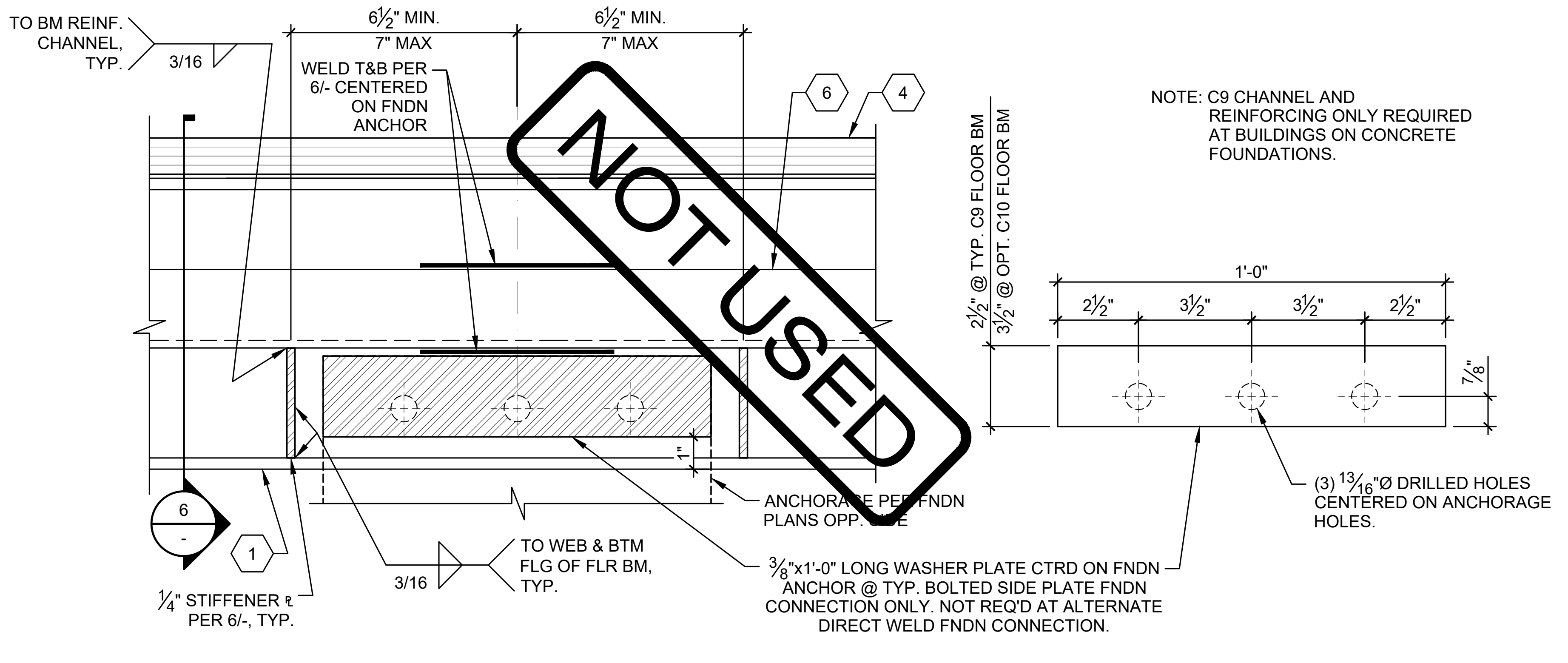
## TYP. ACCESS HOLE FILLER 4

SCALE : 3" = 1'-0"


TYP.
1/4
3"@12" TYP.
6" @ FNDN ANCHORS.
4
7
-
1" MIN.
C7
5¼" @ C9 OR C10
6
NOT USED
WASHER PLATE @ TYP. SIDE PLATE FNDN ANCHORAGE PER 7/-
¼" STIFFENER ℞'s @ FNDN ANCHORAGE. SEE 7/- FOR LOCATIONS & WELDING
1
NOTE: C9 CHANNEL AND REINFORCING ONLY REQUIRED AT BUILDINGS ON CONCRETE FOUNDATIONS.
ANCHORAGE PER FNDN PLANS
CONC. FOOTING PER FNDN PLAN

## TYP. TRANSVERSE FLOOR BEAM REINFORCING 6

(NOT REQ'D @ LONGITUDINAL FLOOR BEAMS) SCALE : 3" = 1'-0"


TO BM REINF. CHANNEL, TYP.
3/16
6½" MIN.
7" MAX
6½" MIN.
7" MAX
WELD T&B PER 6/- CENTERED ON FNDN ANCHOR
6
4
NOT USED
NOTE: C9 CHANNEL AND REINFORCING ONLY REQUIRED AT BUILDINGS ON CONCRETE FOUNDATIONS.
2½" @ TYP. C9 FLOOR BM
3½" @ OPT. C10 FLOOR BM
1'-0"
2½"
3½"
3½"
2½"
⅞"
1"
6
-
1
¼" STIFFENER ℞ PER 6/-, TYP.
3/16
TO WEB & BTM FLG OF FLR BM, TYP.
ANCHORAGE PER FNDN PLANS OPP. SIDE
⅜"x1'-0" LONG WASHER PLATE CTRD ON FNDN ANCHOR @ TYP. BOLTED SIDE PLATE FNDN CONNECTION ONLY. NOT REQ'D AT ALTERNATE DIRECT WELD FNDN CONNECTION.
(3) 13/16"Ø DRILLED HOLES CENTERED ON ANCHORAGE HOLES.

## TYP. REINFORCED FLOOR FRAMING @ FOUNDATION ANCHORAGE 7

SCALE : 3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ 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
11/21/2023

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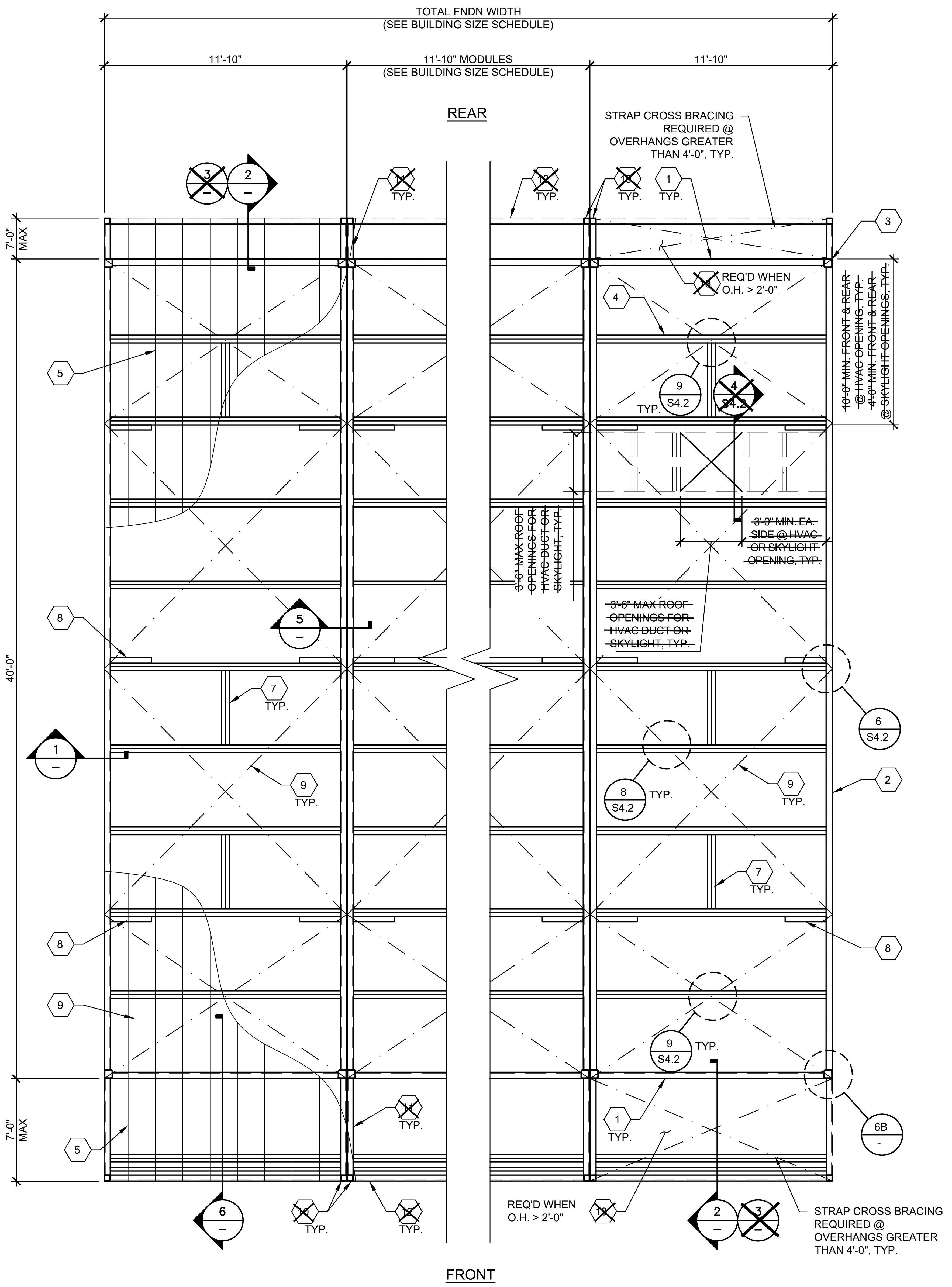
| 2 |
| 3 |
| 4 |

| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:
FLOOR FRAMING PLAN
& DETAILS FOR
PLYWOOD FLOOR

SHEET NUMBER:
S3.0


TOTAL FNDN WIDTH
(SEE BUILDING SIZE SCHEDULE)
11'-10"
11'-10" MODULES
(SEE BUILDING SIZE SCHEDULE)
11'-10"
REAR
STRAP CROSS BRACING
REQUIRED @
OVERHANGS GREATER
THAN 4'-0", TYP.
3
2
TYP.
1
REQ'D WHEN
O.H. > 2'-0"
4
5
9
S4.2
4
S4.2
10'-0" MIN. FRONT & REAR @ HVAC OPENING, TYP.
4'-0" MIN. FRONT & REAR @ SKYLIGHT OPENINGS, TYP.
3'-6" MAX ROOF OPENINGS FOR HVAC DUCT OR SKYLIGHT, TYP.
~~3'-0" MIN. EA. SIDE @ HVAC OR SKYLIGHT OPENING, TYP.~~
~~3'-6" MAX ROOF OPENINGS FOR HVAC DUCT OR SKYLIGHT, TYP.~~
7'-0" MAX
40'-0"
8
7
6
S4.2
1
8
S4.2
2
7
8
9
6B
7'-0" MAX
REQ'D WHEN
O.H. > 2'-0"
STRAP CROSS BRACING
REQUIRED @
OVERHANGS GREATER
THAN 4'-0", TYP.
FRONT

### TYPICAL ROOF FRAMING LAYOUT (ENCLOSED SOFFIT)

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

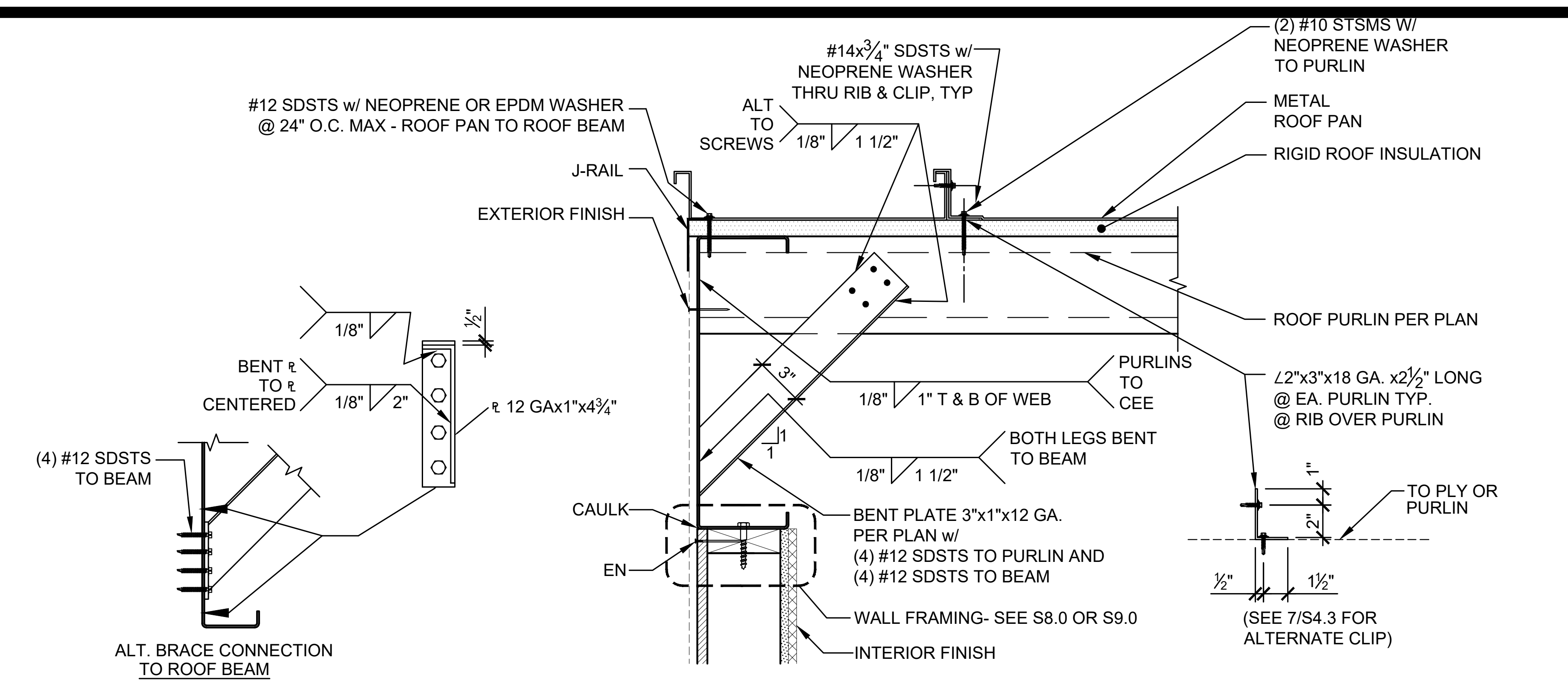
| BUILDING SIZE SCHEDULE | | | |
|---|---|---|---|
| BUILDING SIZE (FT) | TOTAL # OF 12'-0" WIDE MODULES | TOTAL # OF CENTER MODULES | OVERALL BUILDING WIDTH[1] |
| ☐ 24'x40' | 2 | 0 | 23'-8½" |
| ☒ 36'x40' | 3 | 1 | 35'-6¾" |
| ☐ 48'x40' | 4 | 2 | 47'-5" |
| ☐ 60'x40' | 5 | 3 | 59'-3¼" |
| ☐ 72'x40' | 6 | 4 | 71'-1½" |
| ☐ 84'x40' | 7 | 5 | 82'-11¾" |
| ☐ 96'x40' | 8 | 6 | 94'-10" |
| ☐ 108'x40' | 9 | 7 | 106'-8¼" |
| ☐ 120'x40' | 10 | 8 | 118'-6½" |

NOTES:

1. TOTAL BUILDING WIDTH INCLUDES 1/4" PER MODULAR CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS S1.1, ~~S1.2, & S1.3.~~

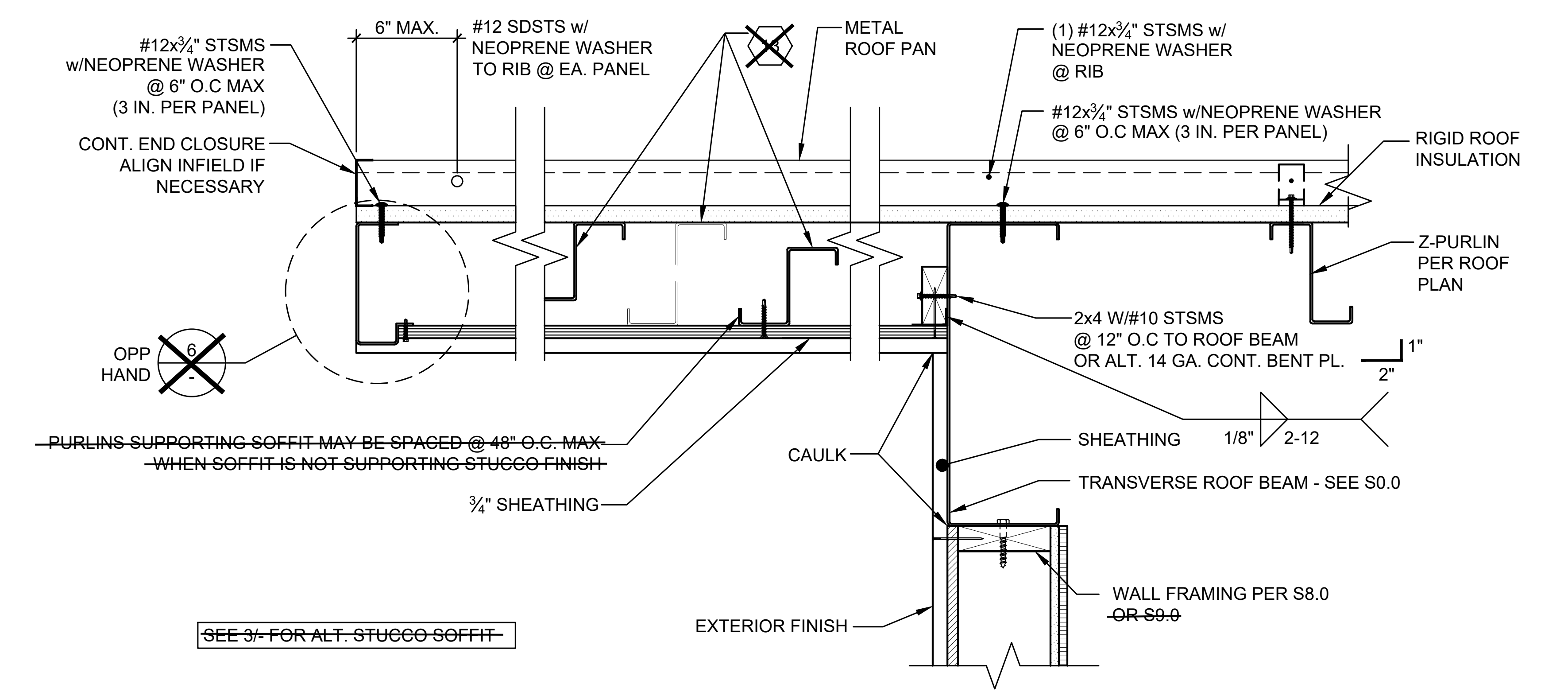
### BUILDING SIZE SCHEDULE

NOT USED



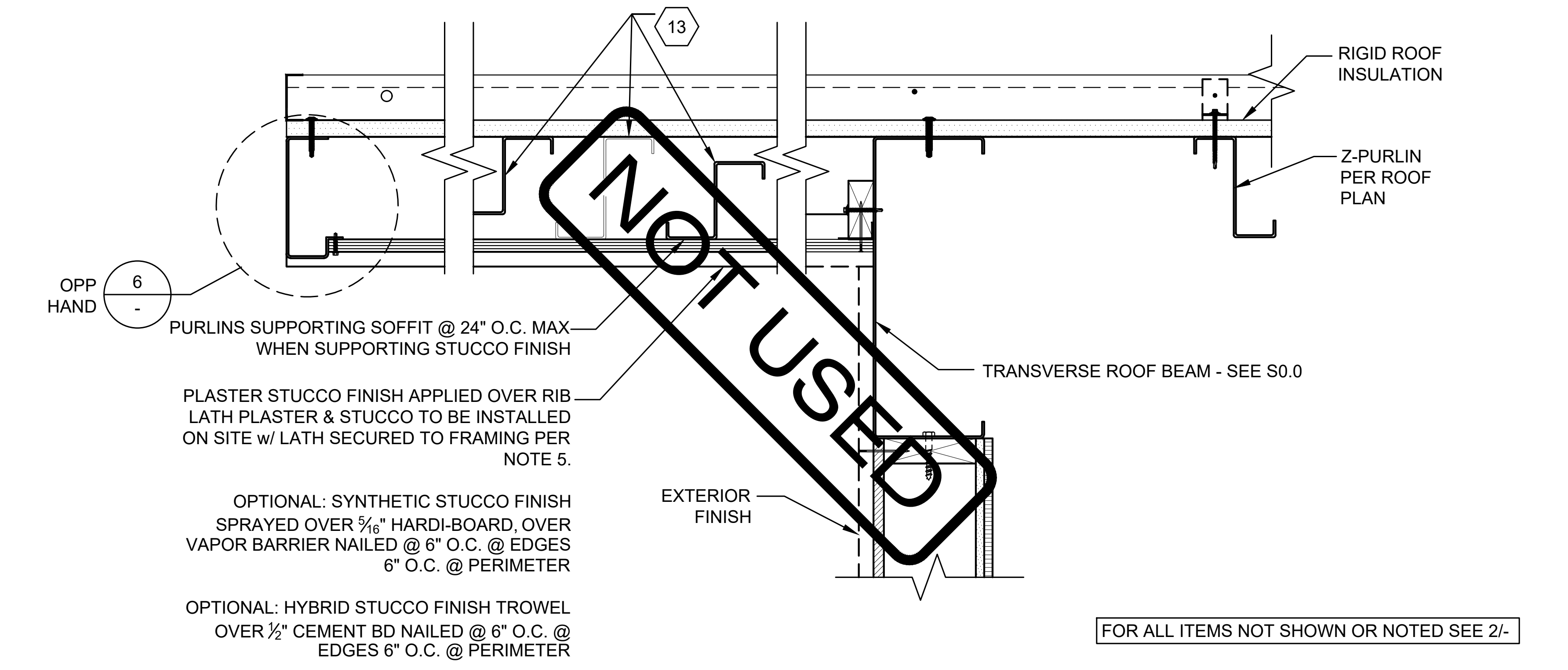
### SIDE WALL TO ROOM BEAM DETAIL

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



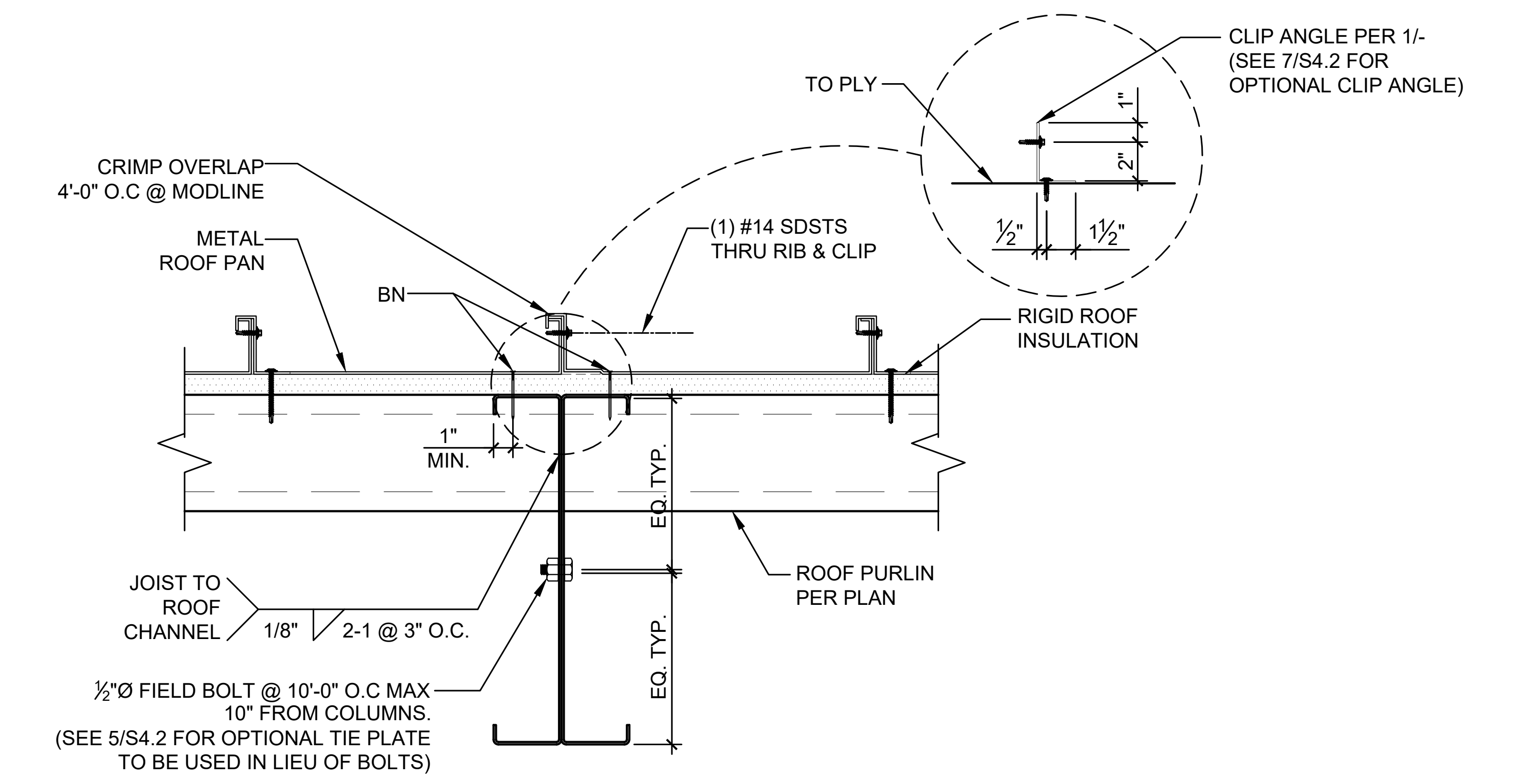
### OVERHANG DETAIL

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


13
RIGID ROOF
INSULATION
Z-PURLIN
PER ROOF
PLAN
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.
EXTERIOR
FINISH
OPTIONAL: SYNTHETIC STUCCO FINISH
SPRAYED OVER 5/16" HARDI-BOARD, OVER
VAPOR BARRIER NAILED @ 6" O.C. @ EDGES
6" O.C. @ PERIMETER
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



### ROOF BEAM CONNECTION DETAIL

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

1. TRANSVERSE ROOF BEAM PER SHEET S0.0.
2. LONGITUDINAL ROOF BEAM PER SHEET S0.0.
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. ~~PROVIDE DOUBLE PURLINS AND BLOCKING PER 2-4/S4.2 @ OPTIONAL HVAC UNIT (800# MAX), (1) HVAC UNIT PER MODULE MAX. LOCATE PER ROOF PLAN & PROVIDE 48" CLEAR MIN. BETWEEN ALL DUCT & SKYLIGHT OPENINGS, TYP.~~

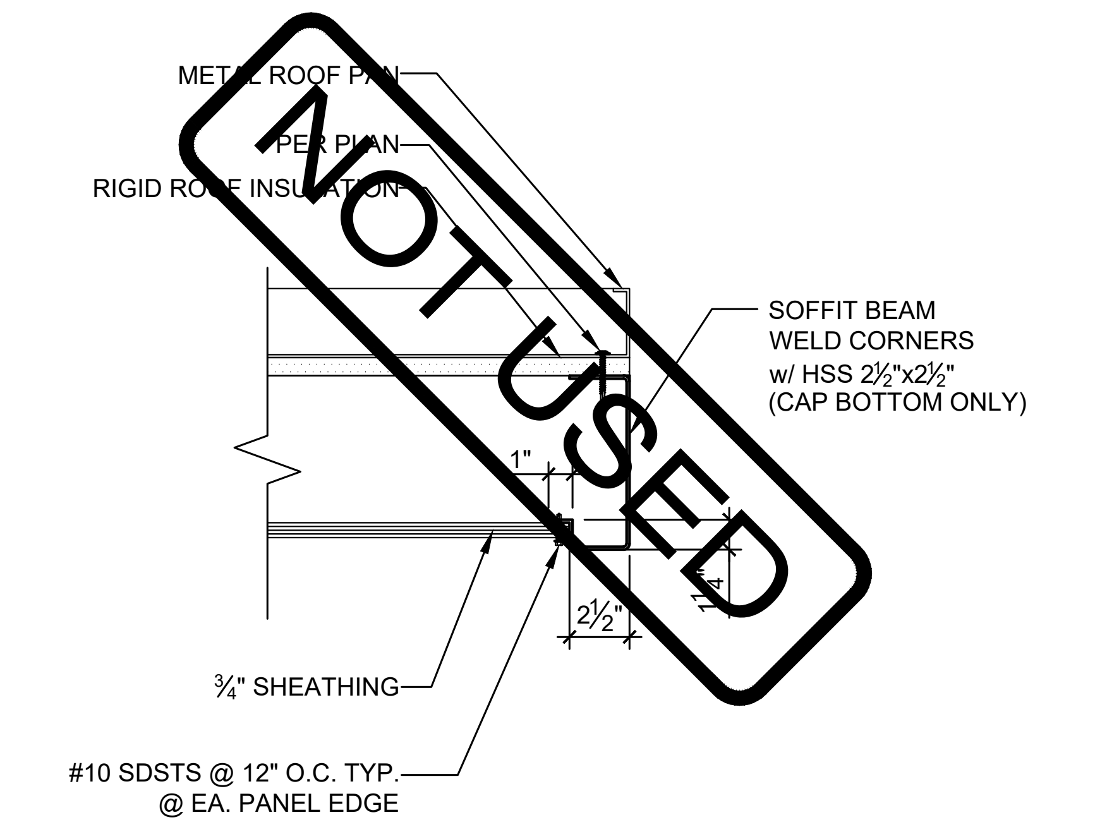
~~NOTE: DO NOT HEAD OFF MORE THAN ONE (1) ROOF PURLIN. MULTIPLE CONSECUTIVE ROOF PURLINS SHALL NOT BE INTERRUPED UNO- SEE 2/S4.2.~~

7. MID-SPAN PURLIN BLOCKING WELD TO ROOF PURLINS PER DETAIL 3/S4.2 BLOCKING IS ONLY REQUIRED AT END MODULES 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 @ END MODULES 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~~

### 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.
6. REFER TO MINIMUM INSULATION SCHEDULES ON SHEET M1.7 FOR ALL INSULATION REQUIREMENTS.

### GENERAL NOTES



### ENCLOSED SOFFIT DETAIL

SCALE: 1 1/2"=1'-0" 6

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SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME

.
.
.

~~APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122050 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 12/11/2023~~

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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
11/21/2023

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△1
△2
△3
△4

| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

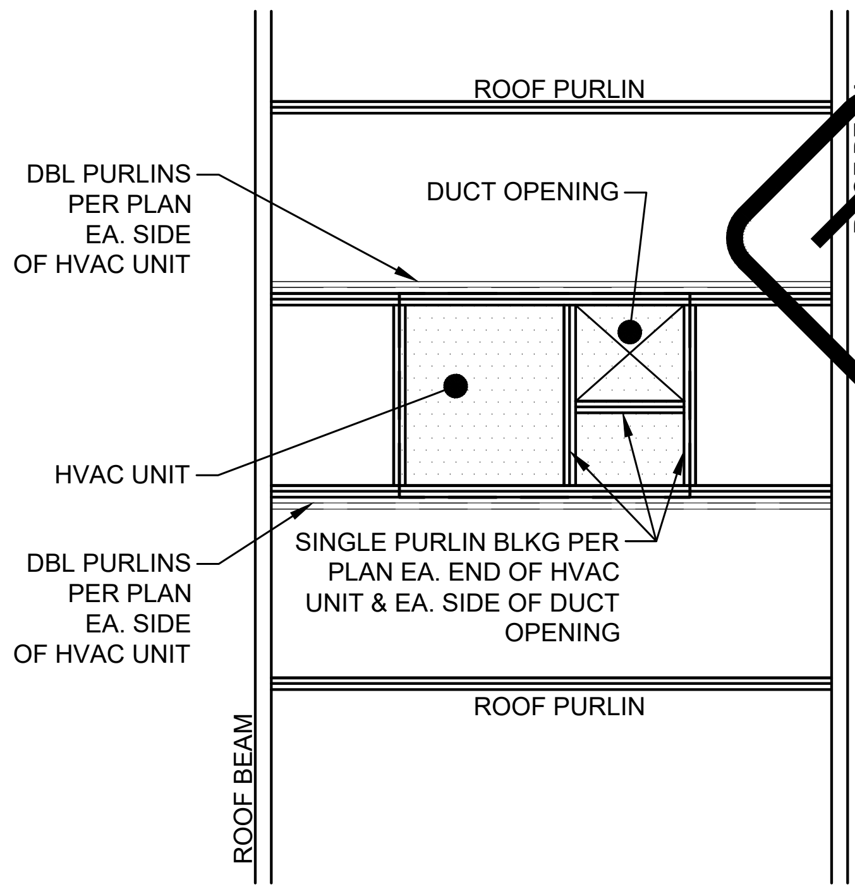
SHEET TITLE:

ROOF FRAMING PLAN
AND DETAILS
CROSS BRACING OPTION

SHEET NUMBER:

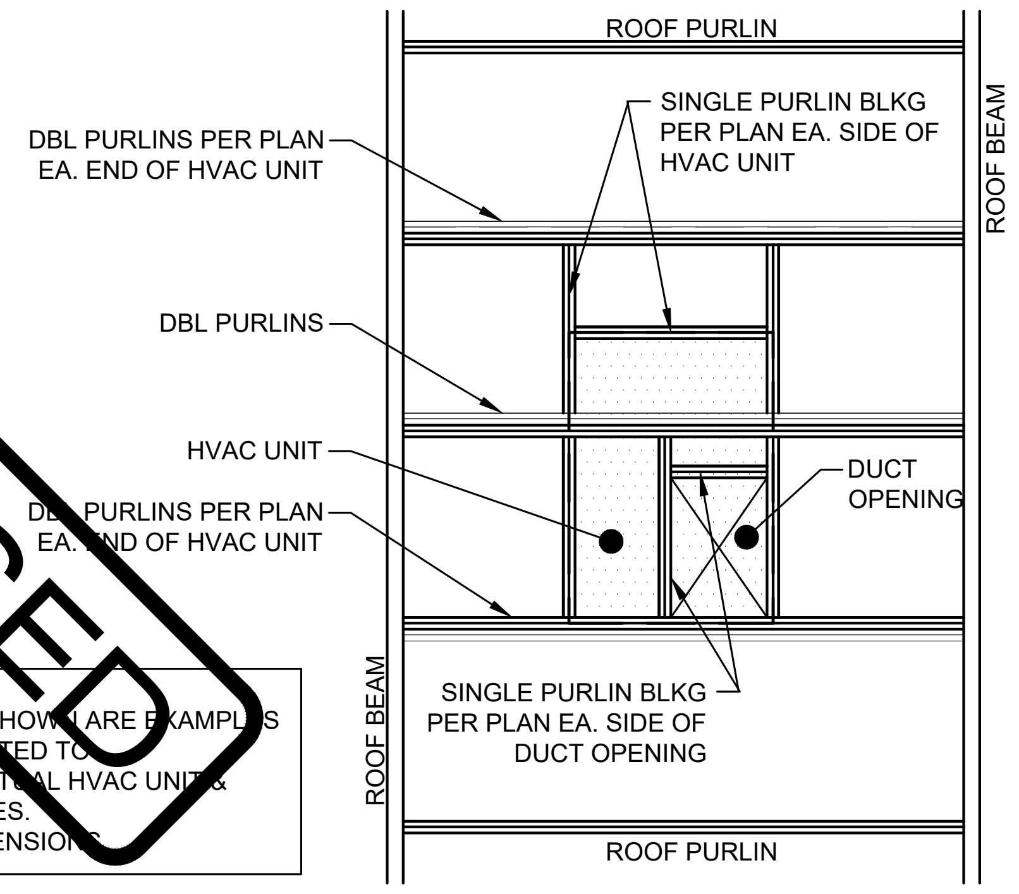
S4.0

## NOT USED 1


ROOF PURLIN
DBL PURLINS PER PLAN EA. SIDE OF HVAC UNIT
DUCT OPENING
HVAC UNIT
DBL PURLINS PER PLAN EA. SIDE OF HVAC UNIT
SINGLE PURLIN BLKG PER PLAN EA. END OF HVAC UNIT & EA. SIDE OF DUCT OPENING
ROOF PURLIN
ROOF BEAM
ROOF BEAM
NOT USED

HVAC UNIT ORIENTED TRANSVERSE TO MODULE

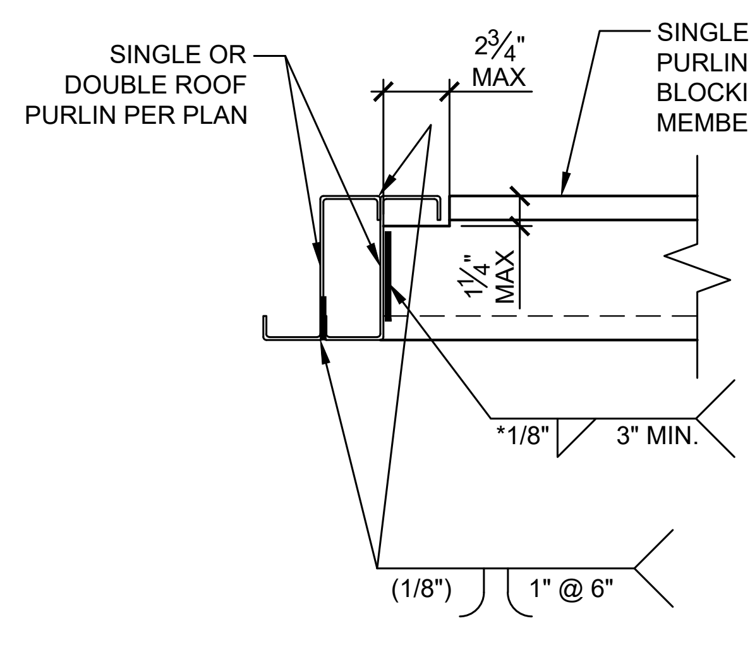
NOTES:
1. FRAMING LAYOUT SHOWN ARE EXAMPLES AND MAY BE ADJUSTED TO ACCOMMODATE ACTUAL HVAC UNIT & DUCT OPENING SIZES.
2. SEE PLAN FOR DIMENSIONS


ROOF PURLIN
DBL PURLINS PER PLAN EA. END OF HVAC UNIT
SINGLE PURLIN BLKG PER PLAN EA. SIDE OF HVAC UNIT
DBL PURLINS
HVAC UNIT
DBL PURLINS PER PLAN EA. END OF HVAC UNIT
DUCT OPENING
SINGLE PURLIN BLKG PER PLAN EA. SIDE OF DUCT OPENING
ROOF PURLIN
ROOF BEAM
ROOF BEAM

HVAC UNIT ORIENTED LONGITUDINAL TO MODULE

## EXAMPLE OF ROOF FRAMING AT ROOFTOP HVAC UNITS 2

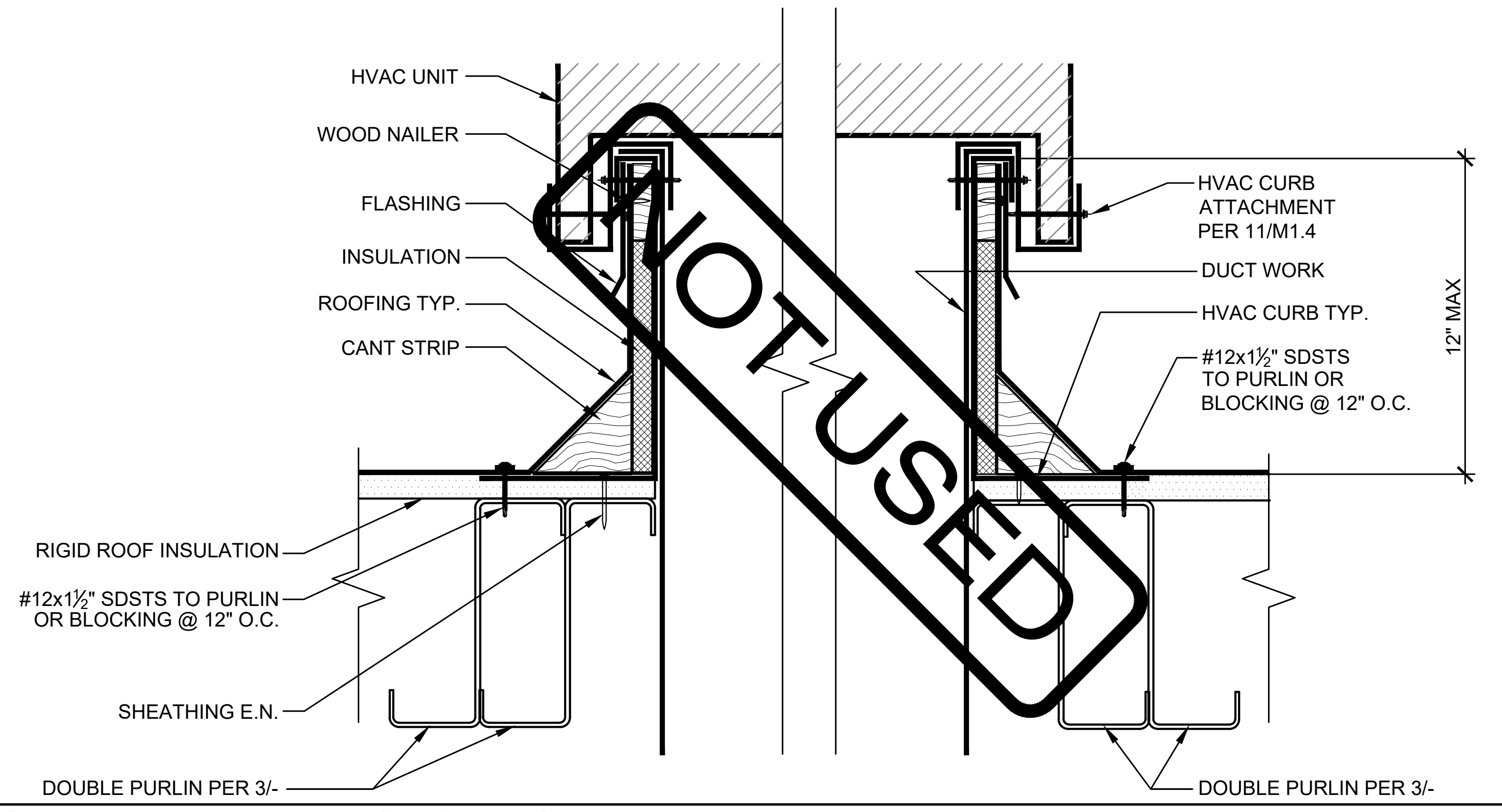
SCALE: 1 1/2"=1'-0"


SINGLE OR DOUBLE ROOF PURLIN PER PLAN
2¾" MAX
SINGLE ROOF PURLIN BLOCKING MEMBER
1¼" MAX
*1/8"
3" MIN.
(1/8")
1" @ 6"

*NOTE: SEE NOTE #1 OF GENERAL NOTES

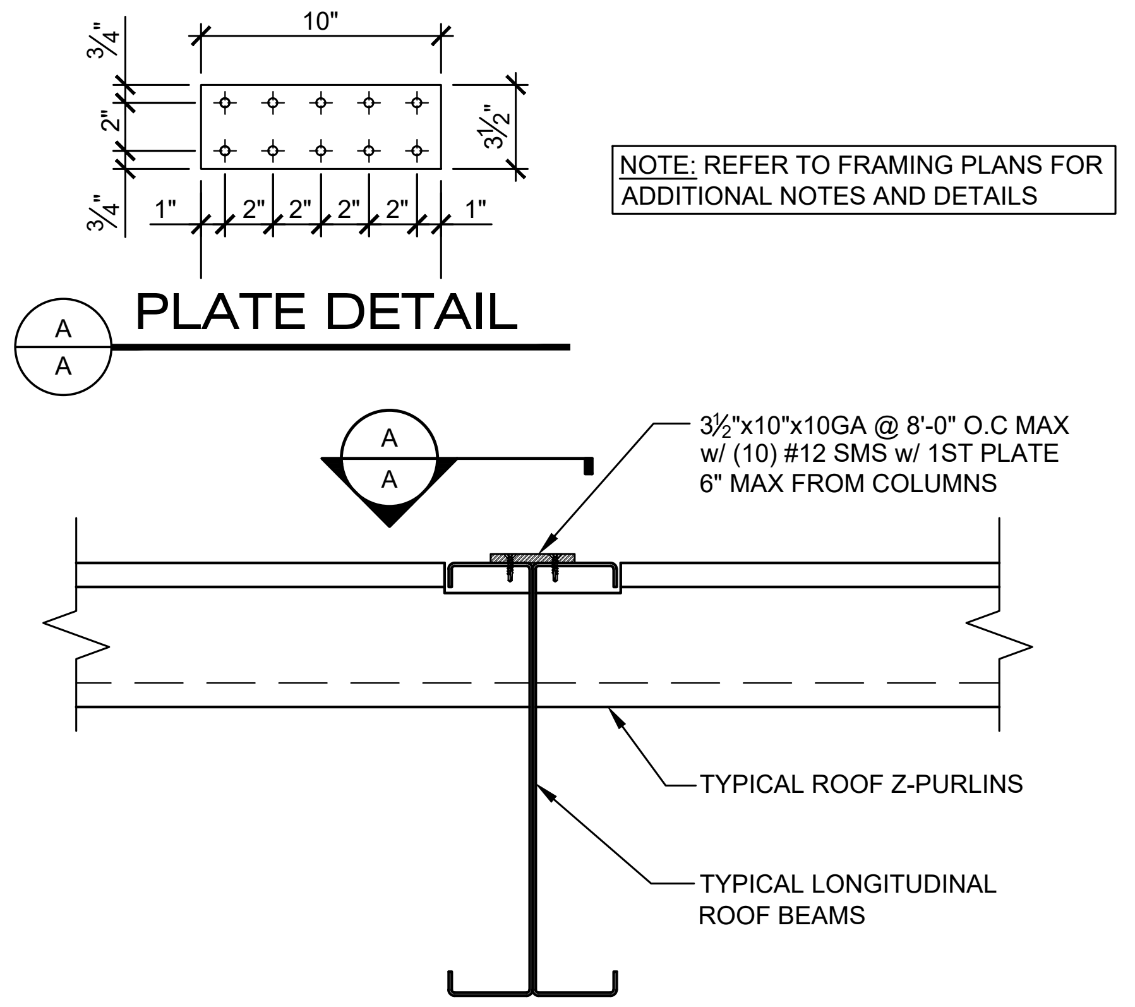
## BLOCKING & DBL PURLIN CONNECTION DETAIL 3

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



## HVAC CURB DETAIL ANCHORAGE 4

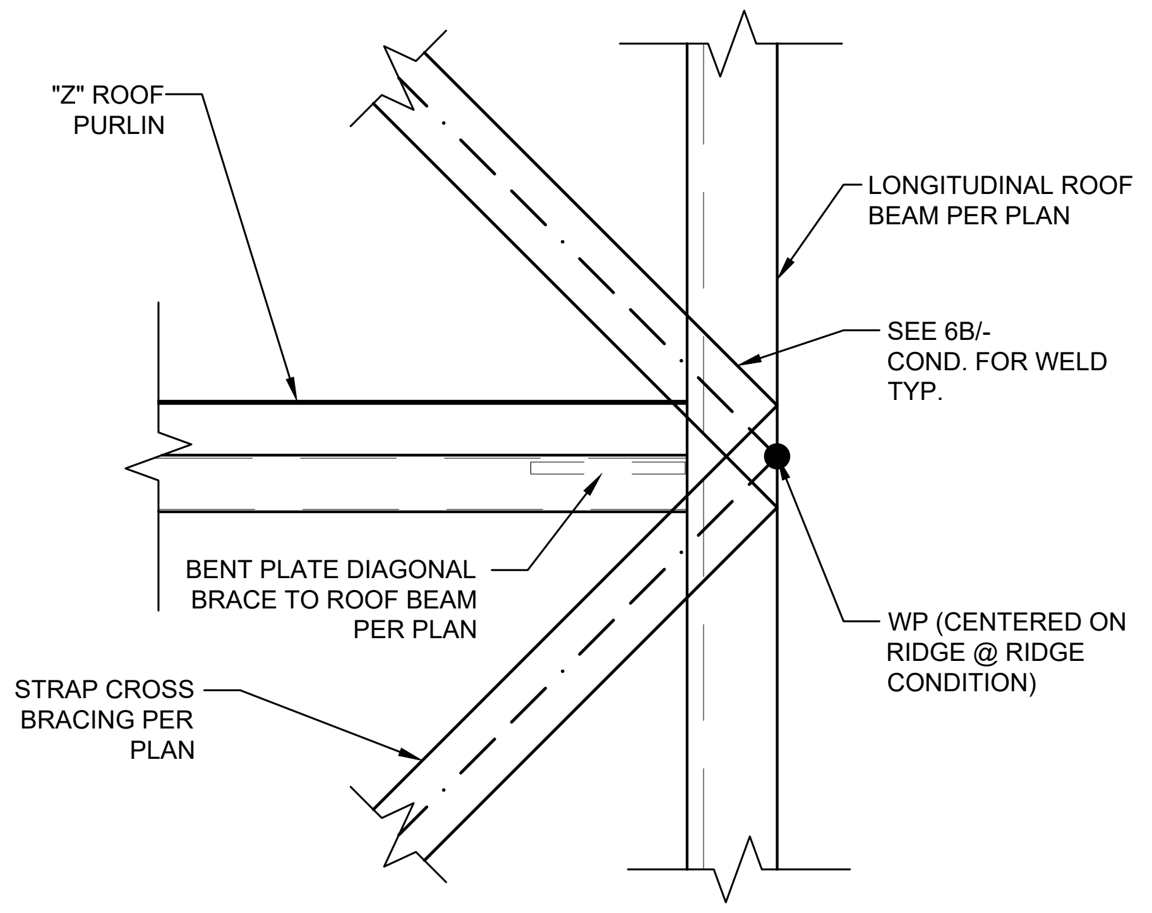
SCALE: 1 1/2"=1'-0"


10"
¾"
2"
¾"
3½"
1"
2"
2"
2"
2"
1"
A
A
PLATE DETAIL
A
A
3½"x10"x10GA @ 8'-0" O.C MAX w/ (10) #12 SMS w/ 1ST PLATE 6" MAX FROM COLUMNS
TYPICAL ROOF Z-PURLINS
TYPICAL LONGITUDINAL ROOF BEAMS

NOTE: REFER TO FRAMING PLANS FOR ADDITIONAL NOTES AND DETAILS

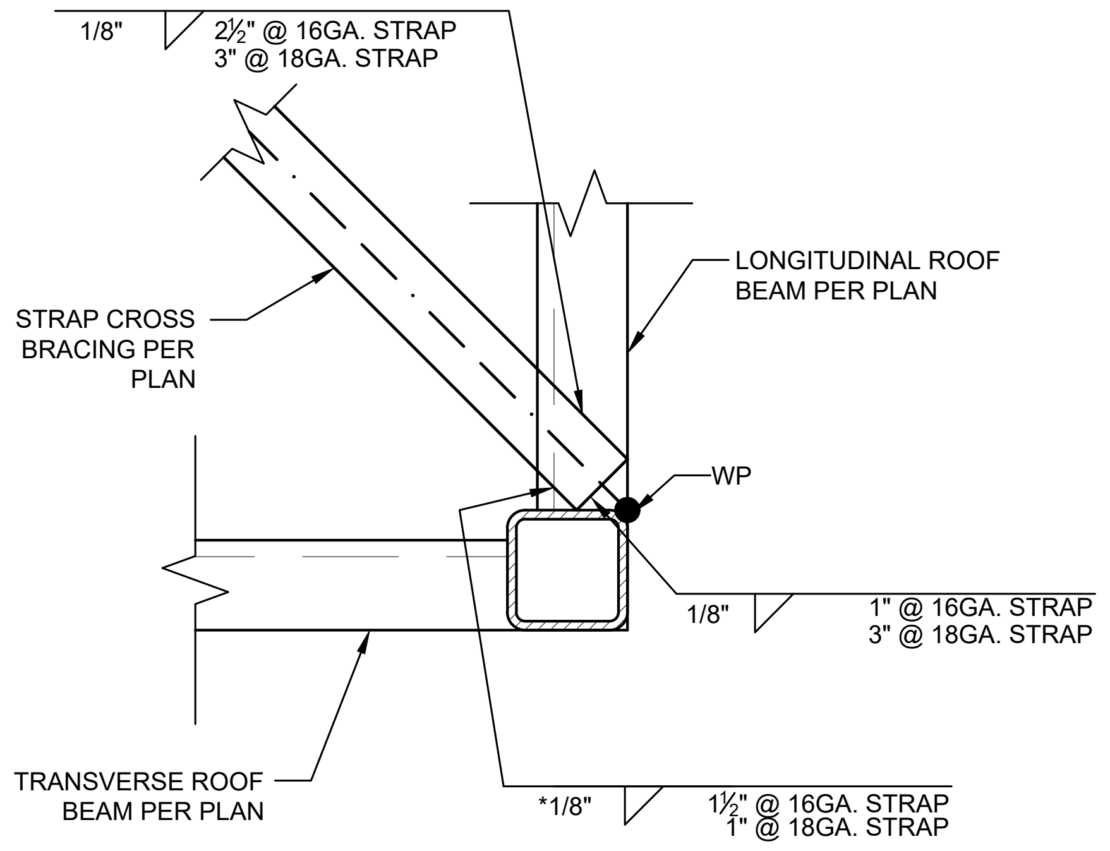
## OPTIONAL ROOF TIE PLATE 5

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


"Z" ROOF PURLIN
LONGITUDINAL ROOF BEAM PER PLAN
SEE 6B/- COND. FOR WELD TYP.
BENT PLATE DIAGONAL BRACE TO ROOF BEAM PER PLAN
STRAP CROSS BRACING PER PLAN
WP (CENTERED ON RIDGE @ RIDGE CONDITION)

## TYP. CROSS BRACING DETAILS 6

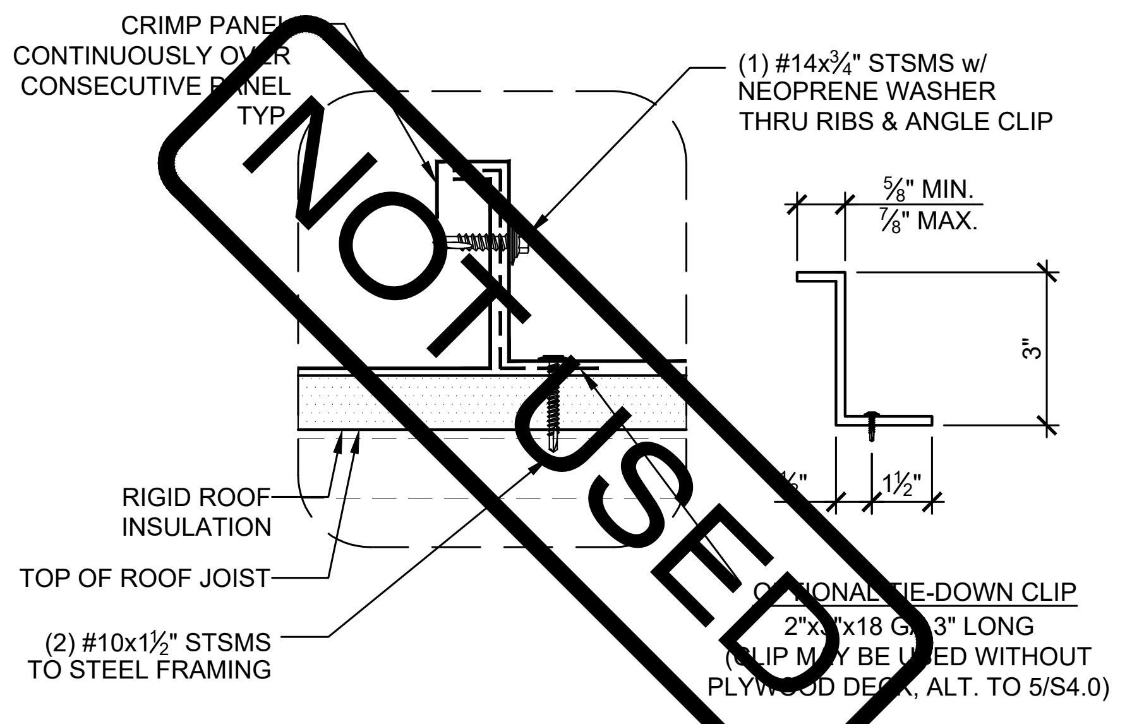
SCALE: 1 1/2"=1'-0"



*NOTE: SEE NOTE #1 OF GENERAL NOTES

## TYP. CROSS BRACING DETAILS 6B

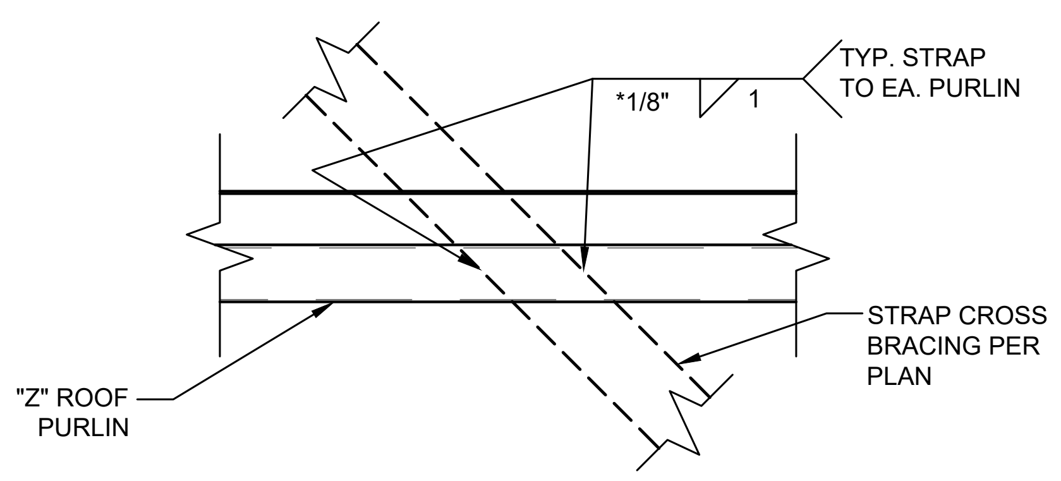
SCALE: 1 1/2"=1'-0"


CRIMP PANEL CONTINUOUSLY OVER CONSECUTIVE PANEL TYP.
(1) #14x¾" STSMS w/ NEOPRENE WASHER THRU RIBS & ANGLE CLIP
⅝" MIN.
⅞" MAX.
3"
1½"
RIGID ROOF INSULATION
TOP OF ROOF JOIST
(2) #10x1½" STSMS TO STEEL FRAMING
OPTIONAL TIE-DOWN CLIP
2"x3"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

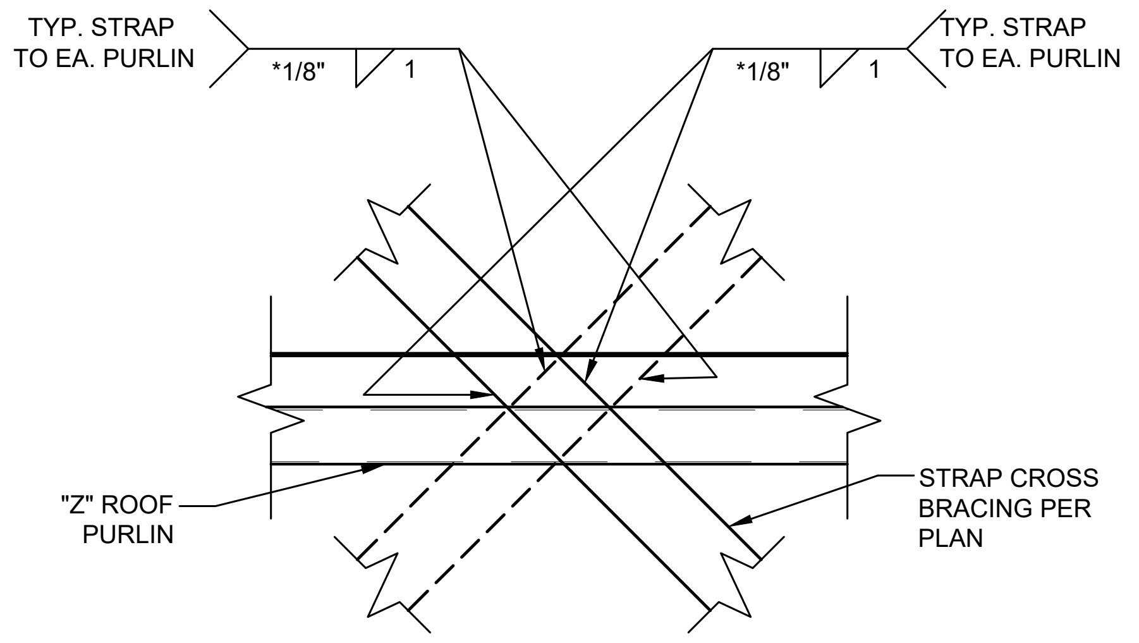
(OPTIONAL ROOF PAN CLIP)
SCALE: 1 1/2"=1'-0"



*NOTE: SEE NOTE #1 OF GENERAL NOTES

## TYP. CROSS BRACING DETAILS 8

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



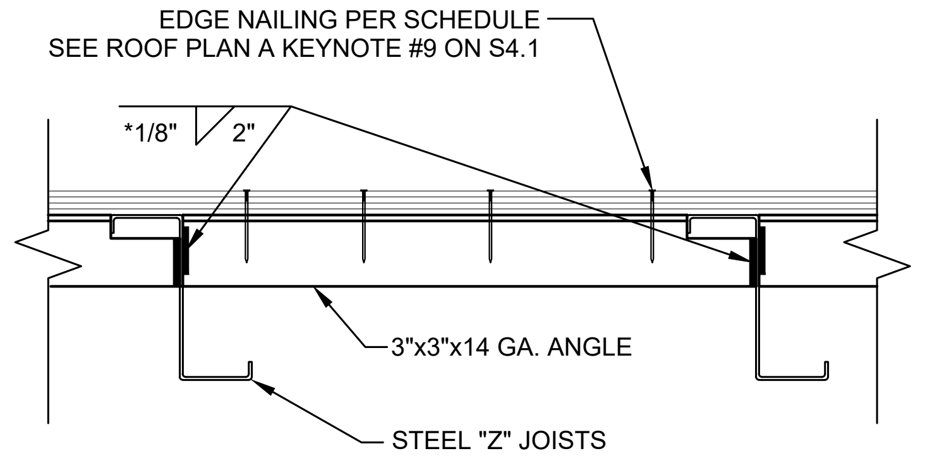
*NOTE: SEE NOTE #1 OF GENERAL NOTES

## TYP. CROSS BRACING DETAILS 9

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

## NOT USED 10

## NOT USED 11


EDGE NAILING PER SCHEDULE SEE ROOF PLAN A KEYNOTE #9 ON S4.1
*1/8"
2"
3"x3"x14 GA. ANGLE
STEEL "Z" JOISTS

*NOTE: SEE NOTE #1 OF GENERAL NOTES

## 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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)

FORM

SITE SPECIFIC PROJECT NAME

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~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

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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

11/21/2023

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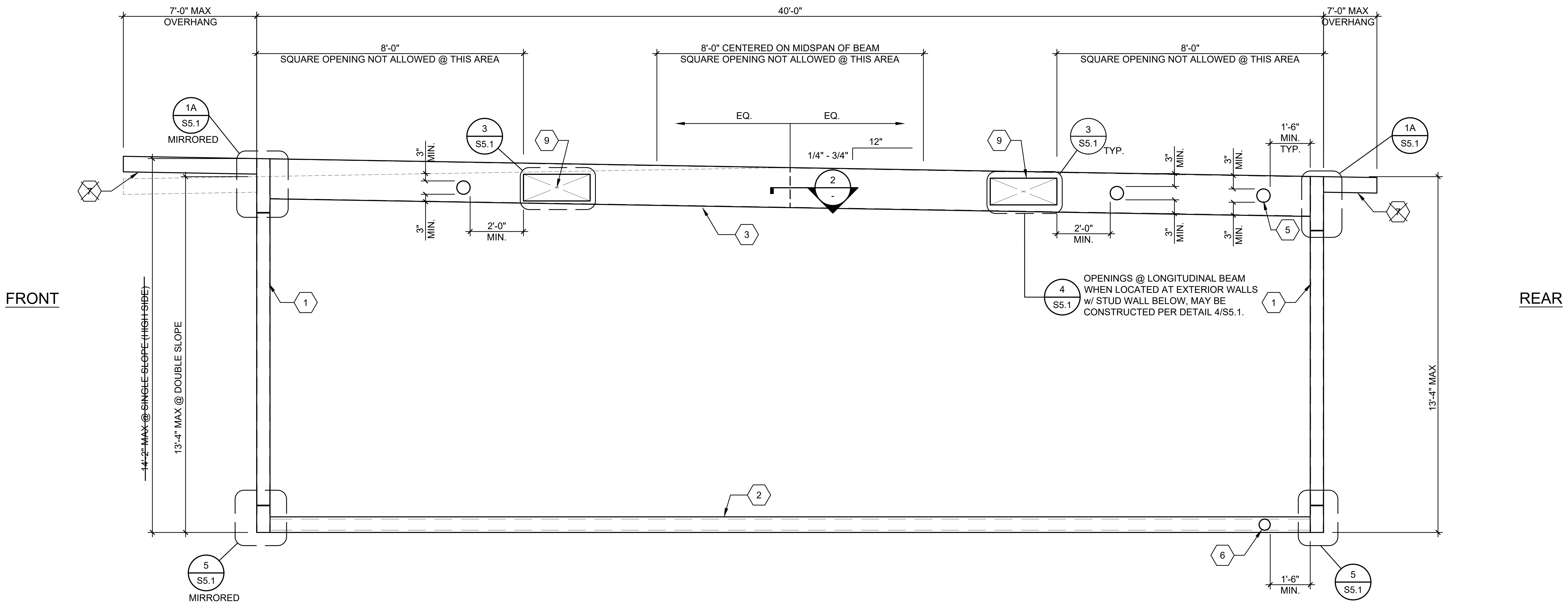
DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-22

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"
1A S5.1 MIRRORED
3 S5.1
9
2 -
9
3 S5.1 TYP.
1'-6" MIN. TYP.
1A S5.1
3" MIN.
2'-0" MIN.
3
FRONT
REAR
1
1
4 S5.1 OPENINGS @ LONGITUDINAL BEAM WHEN LOCATED AT EXTERIOR WALLS w/ STUD WALL BELOW, MAY BE CONSTRUCTED PER DETAIL 4/S5.1.
5
~~14'-2" MAX @ SINGLE SLOPE (HIGH SIDE)~~
13'-4" MAX @ DOUBLE SLOPE
13'-4" MAX
2
6
1'-6" MIN.
5 S5.1 MIRRORED
5 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 - GAUGE PER SCHEDULE 3 BELOW.

4 TRANSVERSE ROOF BEAM PER 18/S0.0 - GAUGE PER 3 BELOW.

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.

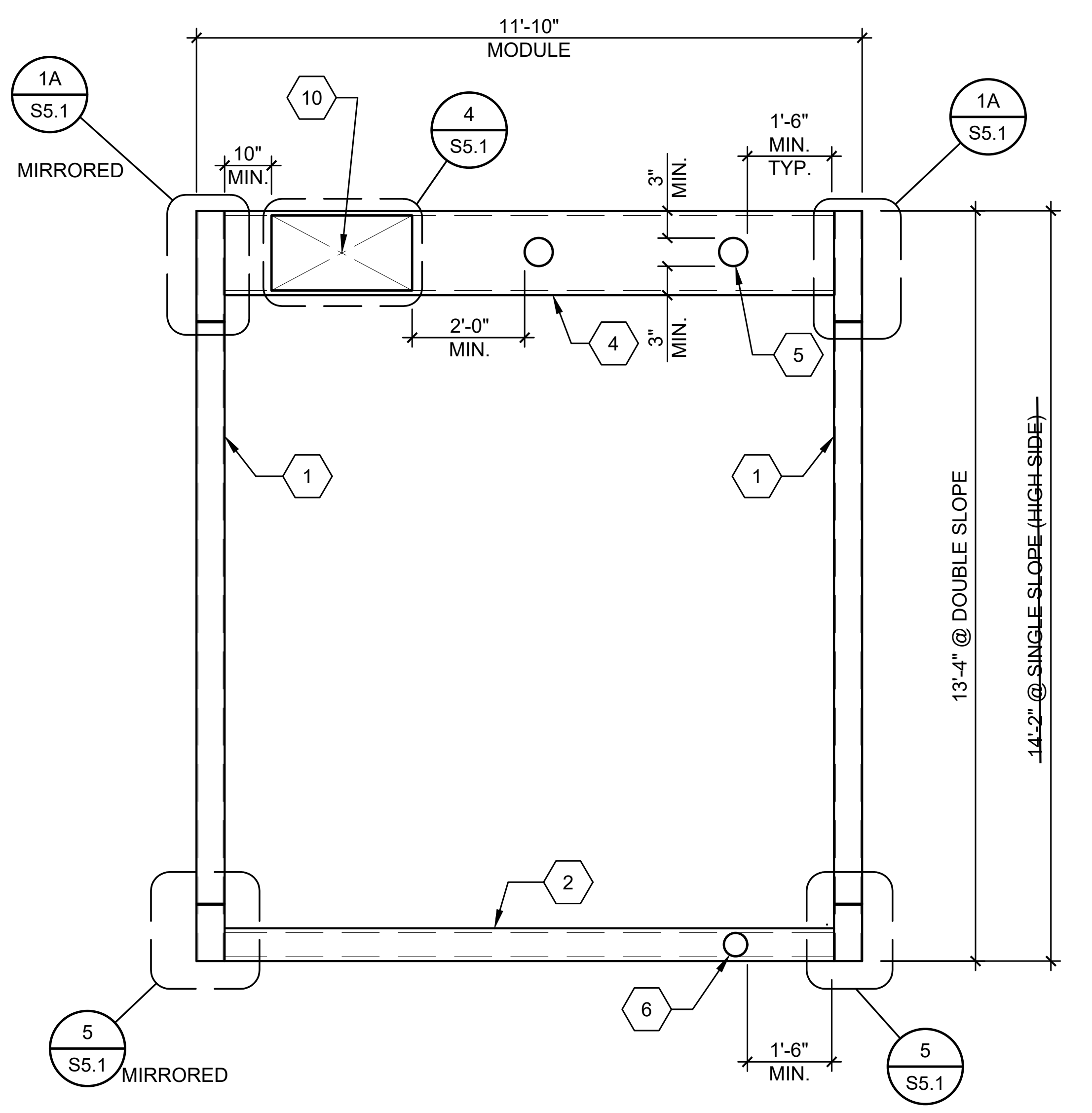
NOTE: IF HOLE IS 2" OR LESS, THEY MAY BE SPACED @ 24" O.C. MINIMUM.

~~7~~ ~~SOFFIT OUTRIGGER BEAM AT ENCLOSED OVERHANG - REFER TO DETAIL 1A OR 1B/S5.1 & S0.0 FOR PROPERTIES~~.

~~8~~ ~~SOFFIT BEAM AT ENCLOSED OVERHANG - REFER TO DETAIL 1A/S5.1 & S0.0 FOR PROPERTIES~~

9 LONGITUDINAL BEAM OPENING:
REFER TO DETAIL 3/S5.1 FOR OPENING REINFORCEMENT (10"x30" MAX OPENING SIZE)

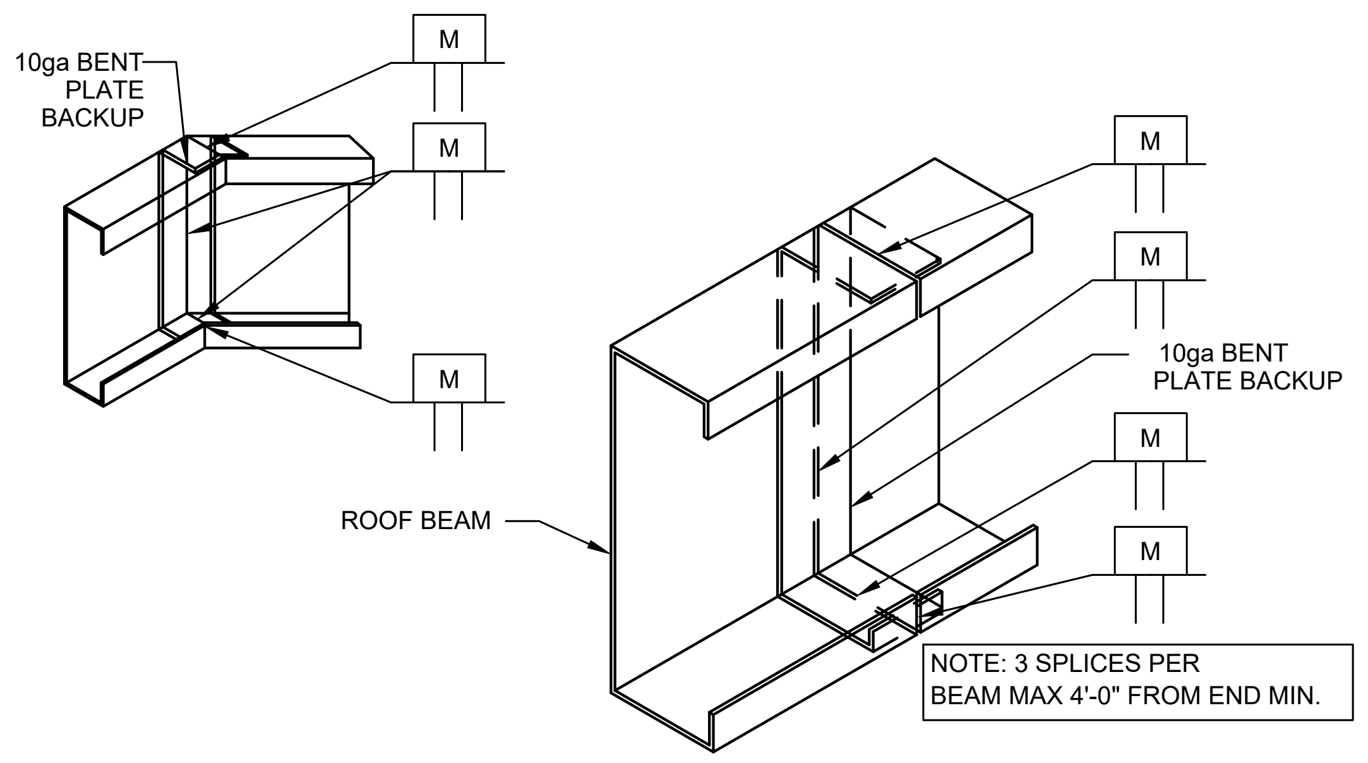
10 TRANSVERSE BEAM OPENING:
REFER TO DETAIL 4/S5.1 FOR OPENING REINFORCEMENT (10"x30" MAX OPENING SIZE)



### TYPICAL TRANSVERSE FRAME ELEVATION

SCALE : 3/8"=1'-0" 4

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.



### TYPICAL BEAM SLICE

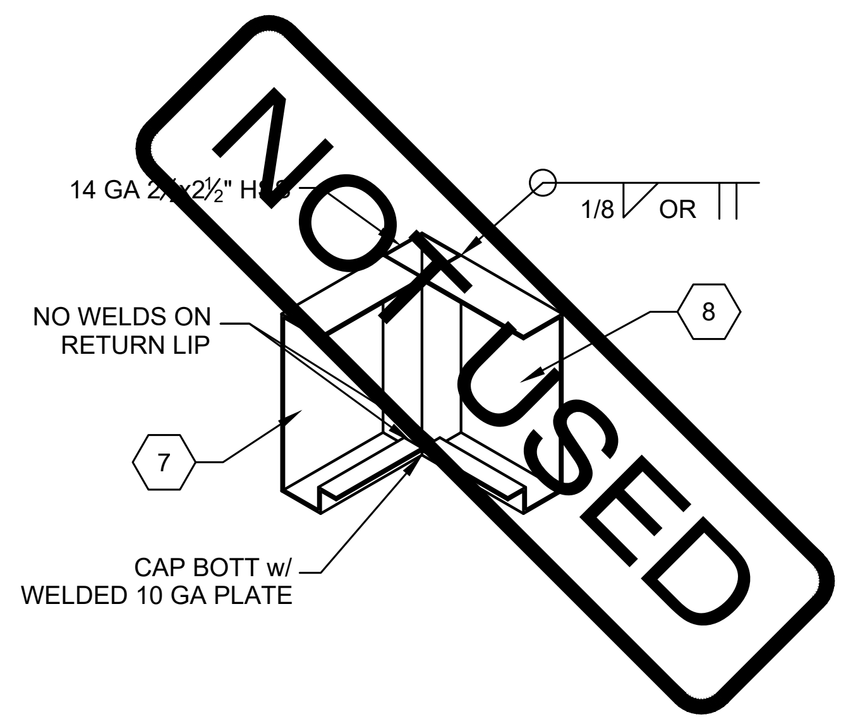
SCALE: 1 1/2"=1'-0" 2

| FLOOR BEAMS | | ALT. FLOOR BEAMS | | COLUMNS | LONGITUDINAL ROOF BEAMS | TRANSVERSE ROOF BEAMS |
|---|---|---|---|---|---|---|
| ☒ PLYWOOD FLOOR | ☐ CONCRETE FLOOR | ☐ PLYWOOD FLOOR | ☐ CONCRETE FLOOR | | | |
| C9x13.4 (50 KSI) | C9x13.4 (50 KSI) | C9x13.4<br>OPTIONAL: C10x15.3 | C10x15.3 | HSS 6x6x¼<br>(ASTM A1085)<br>Fy = 50ksi | 10 GA. | 10 GA. |

NOTE: SEE ALL SECTION PROPERTIES ON SHEET S0.0

### FRAME MEMBER SCHEDULE

3



### OVERHANG CORNER DETAIL

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

### NOT USED

6

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24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
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FORM

SITE SPECIFIC PROJECT NAME
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SS ☑ FLS ☑ ACS ☑ CG ☑
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RANDALL PATRICK CAVANAGH
No. C12631
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MANNY D. FRISCH
No. S3380

RST#22214

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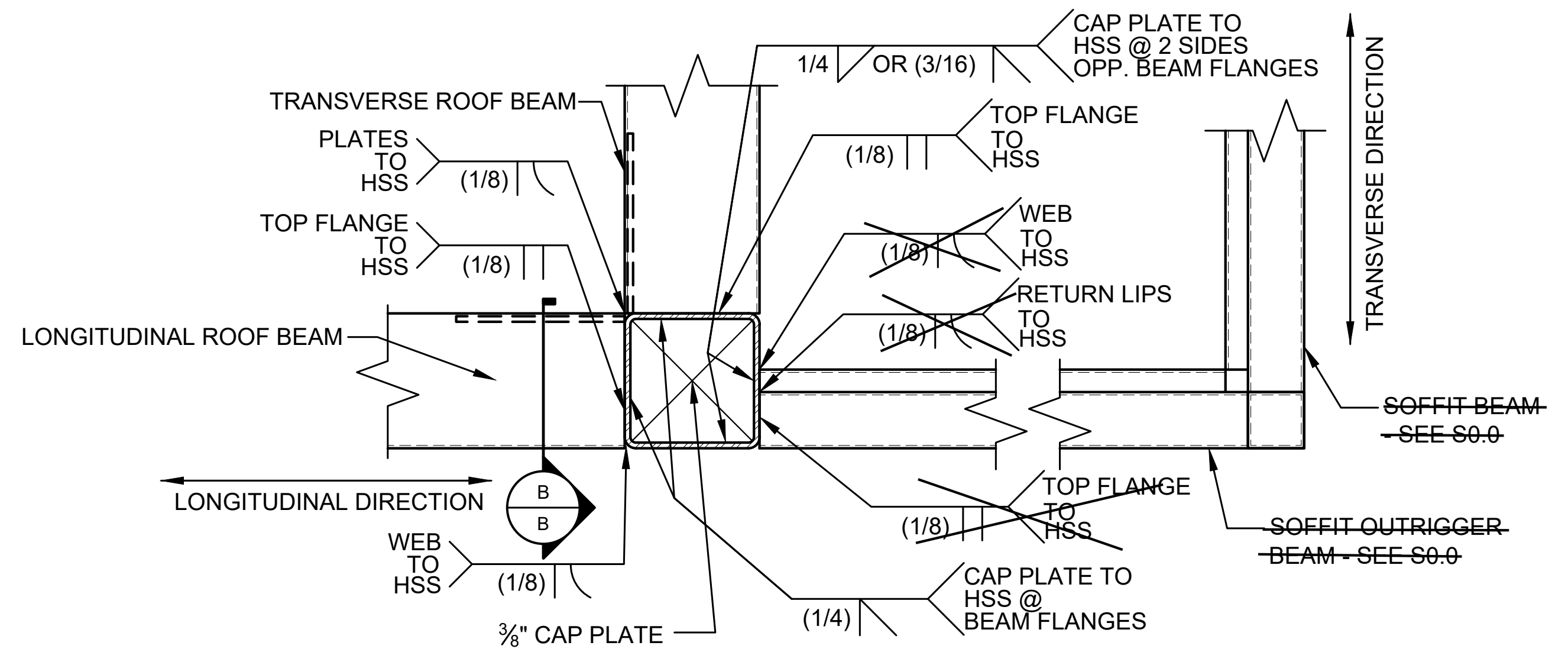
| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

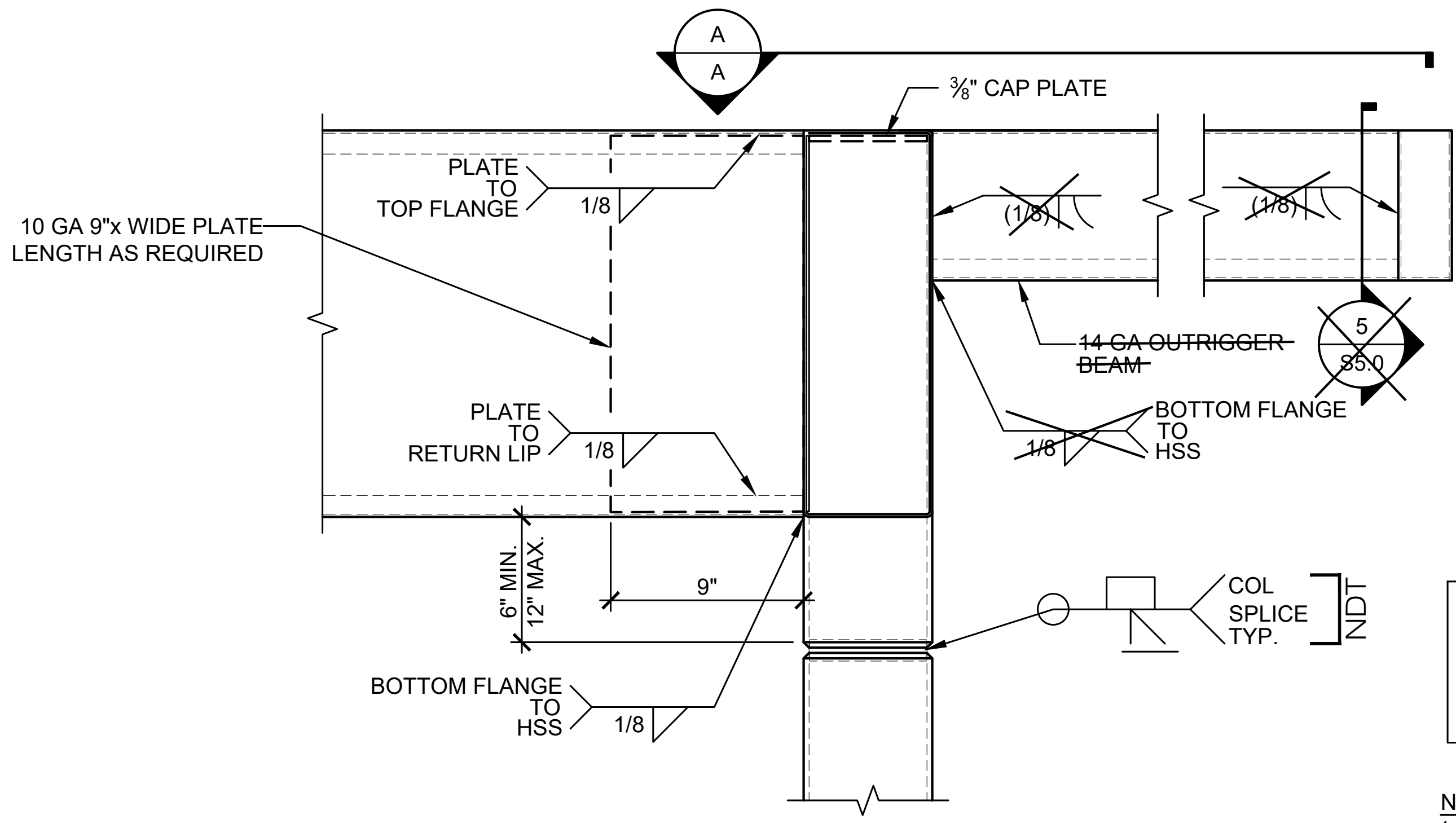
MOMENT FRAME
ELEVATIONS & DETAILS

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. |
|---|---|

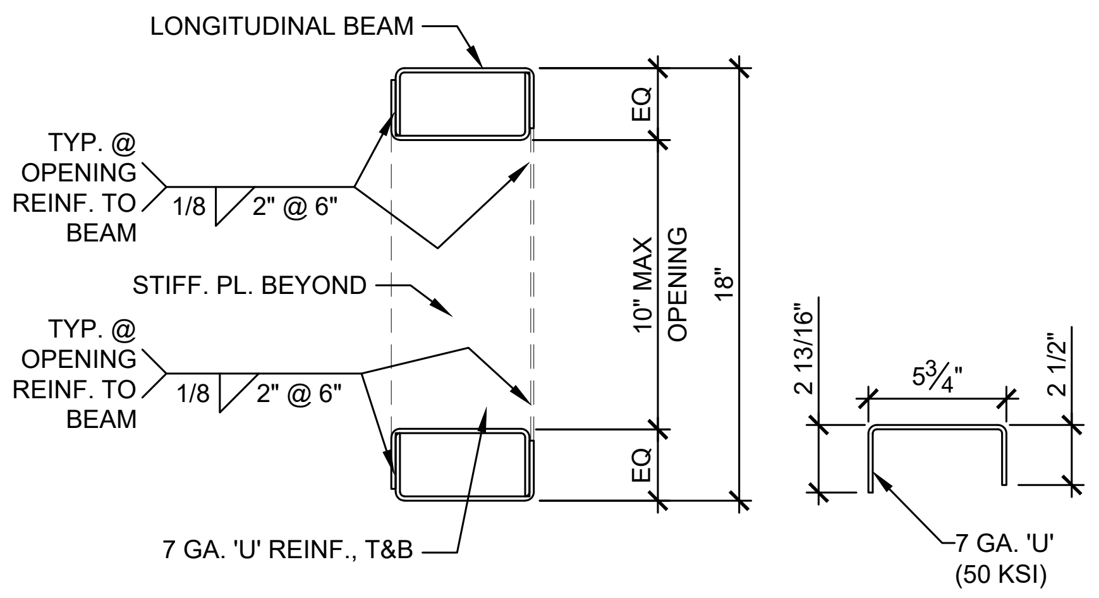
NOTE:
1. LONGITUDINAL ROOF BEAM SHOWN; TRANSVERSE ROOF BEAM SIMILAR

## TYPICAL ROOF BEAM TO HSS DETAIL

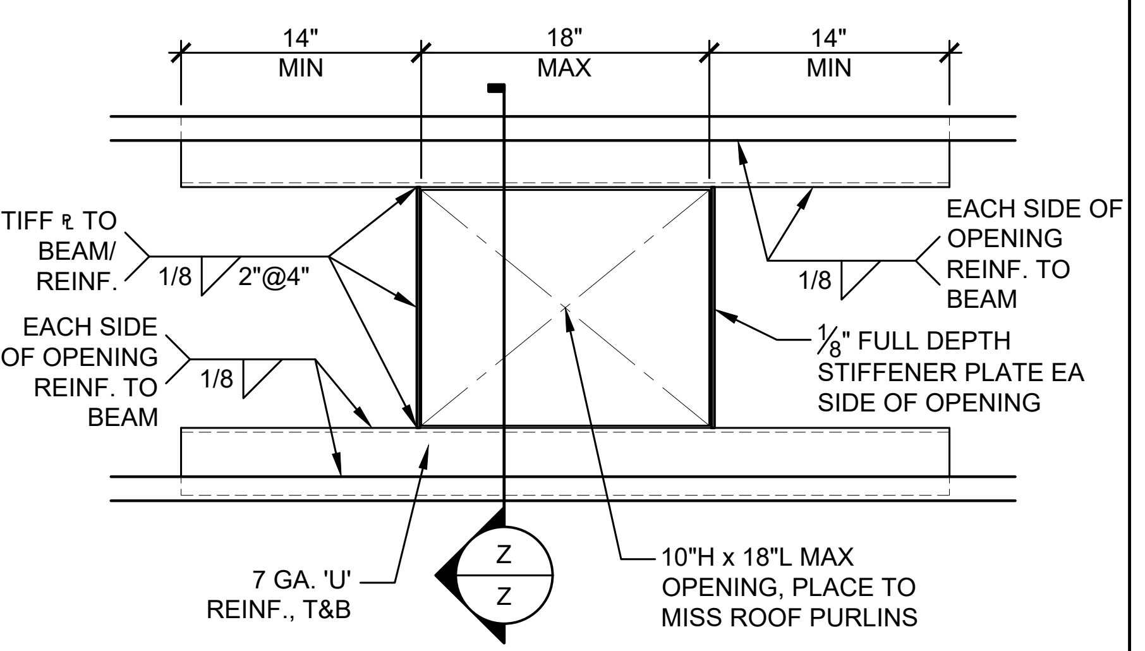
SCALE: 1 1/2"=1'-0" 1A

## NOT USED

1B



Z/Z OPENING IN LONGITUDINAL BEAMS


14" MIN
18" MAX
14" MIN
STIFF ℓ TO BEAM/ REINF. 1/8 2"@4"
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

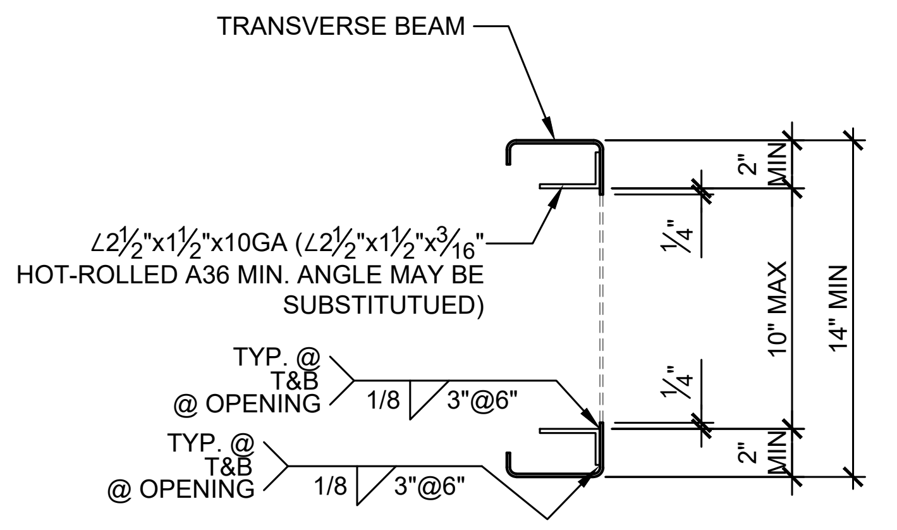
NOTES:

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

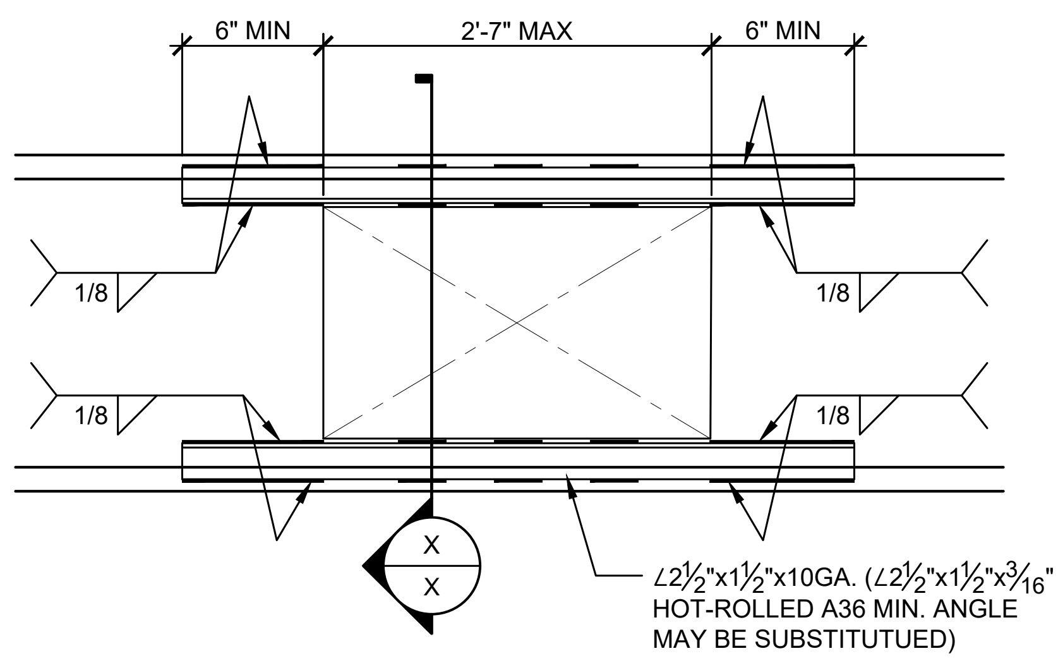
## OPENING @ ROOF BEAMS

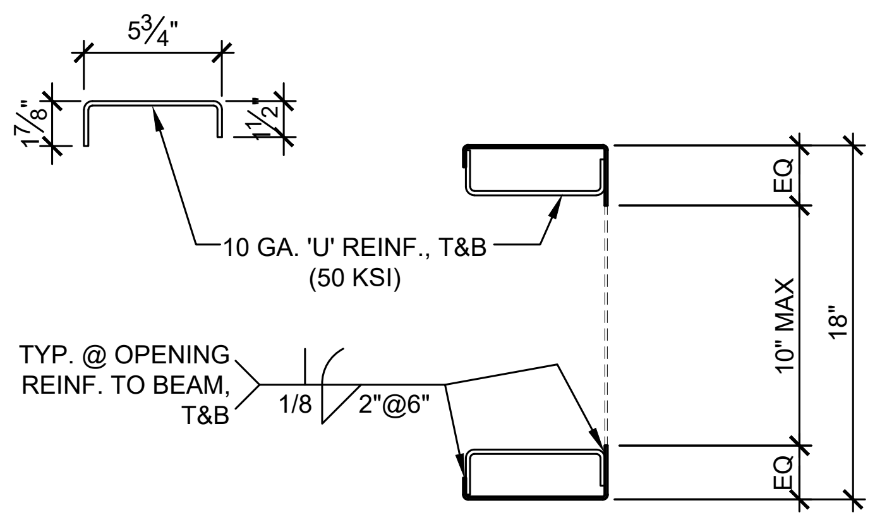
(LONGITUDINAL BEAMS)

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


TRANSVERSE BEAM
∠2½"x1½"x10GA (∠2½"x1½"x3⁄16" HOT-ROLLED A36 MIN. ANGLE MAY BE SUBSTITUTUED)
TYP. @ T&B @ OPENING 1/8 3"@6"
TYP. @ T&B @ OPENING 1/8 3"@6"
2" MIN
¼"
10" MAX
14" MIN
¼"
2" MIN

X/X OPENING IN TRANSVERSE BEAMS


6" MIN
2'-7" MAX
6" MIN
1/8
1/8
1/8
1/8
X X
∠2½"x1½"x10GA. (∠2½"x1½"x3⁄16" HOT-ROLLED A36 MIN. ANGLE MAY BE SUBSTITUTUED)

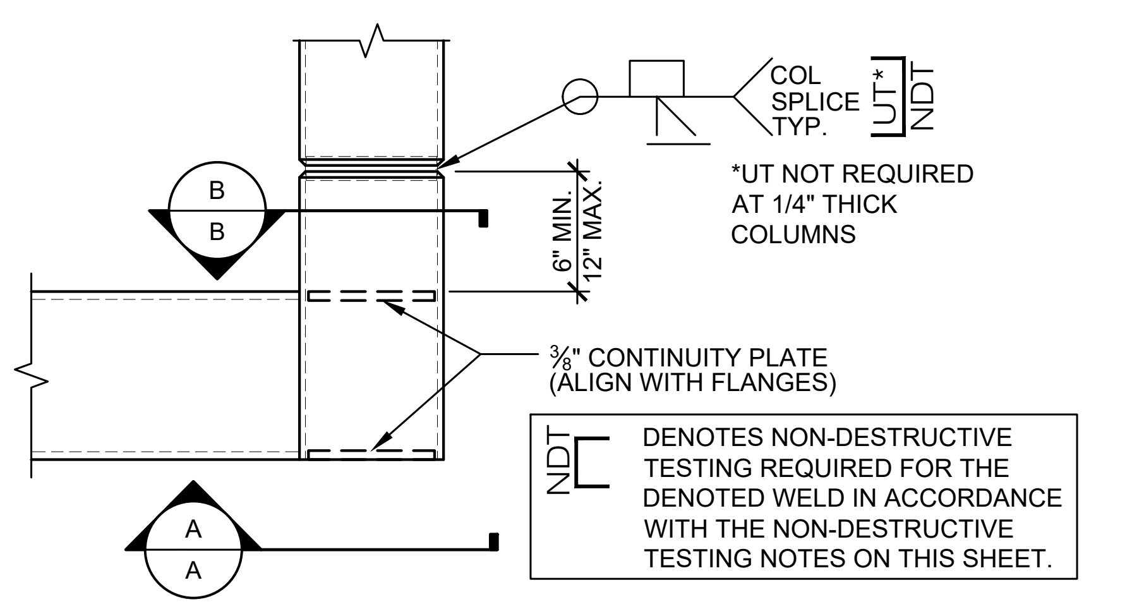

5¾"
1⅞"
1½"
10 GA. 'U' REINF., T&B (50 KSI)
TYP. @ OPENING REINF. TO BEAM, T&B 1/8 2"@6"
EQ
10" MAX
18"
EQ

OPTIONAL OPENING REINFORCEMENT

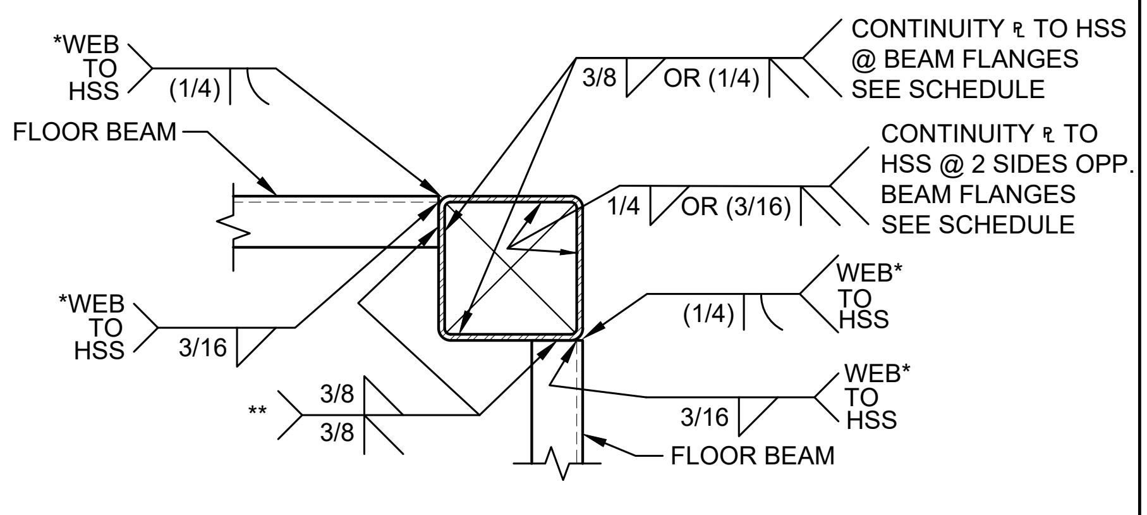
## OPENING @ ROOF BEAMS

(TRANSVERSE BEAMS)

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

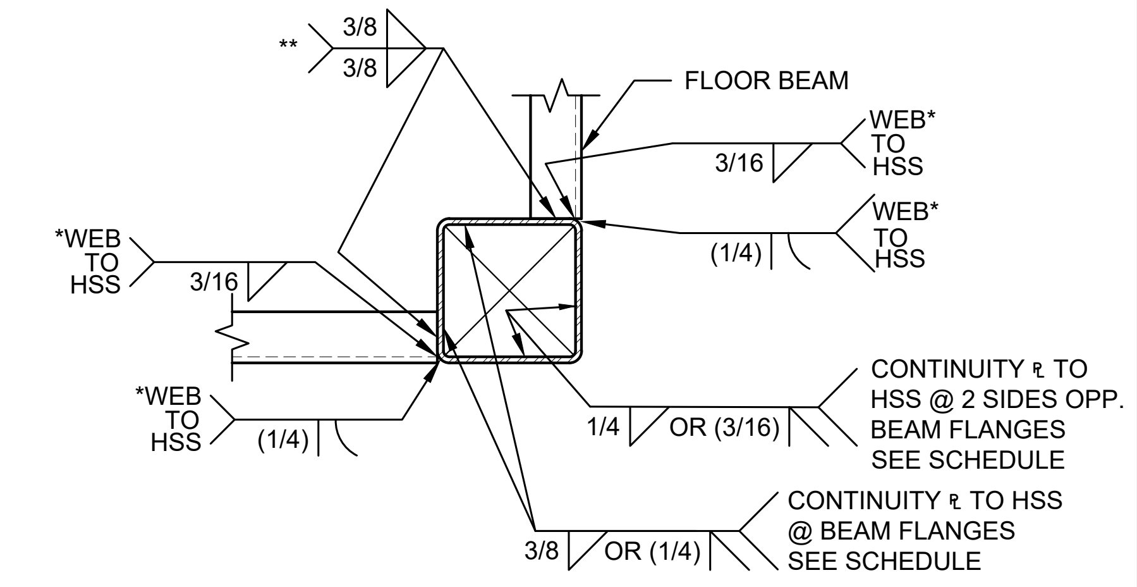

COL SPLICE TYP. UT* NDT
*UT NOT REQUIRED AT 1/4" THICK COLUMNS
B B
6" MIN. 12" MAX.
⅜" CONTINUITY PLATE (ALIGN WITH FLANGES)
A A

| 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 ℓ TO HSS @ BEAM FLANGES SEE SCHEDULE 3/8 OR (1/4)
CONTINUITY ℓ 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 3/16
*WEB TO HSS (1/4)
CONTINUITY ℓ TO HSS @ 2 SIDES OPP. BEAM FLANGES SEE SCHEDULE 1/4 OR (3/16)
CONTINUITY ℓ TO HSS @ BEAM FLANGES SEE SCHEDULE 3/8 OR (1/4)

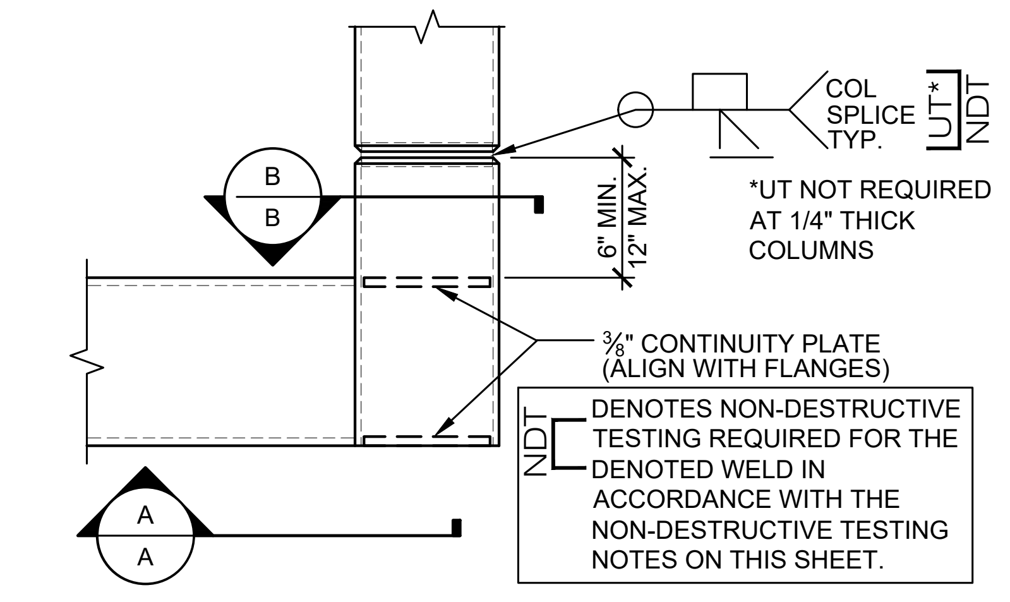
B/B SECTION

* - SEE DETAIL 5B FOR ALT. BEAM TO COLUMN WELDING DETAILS

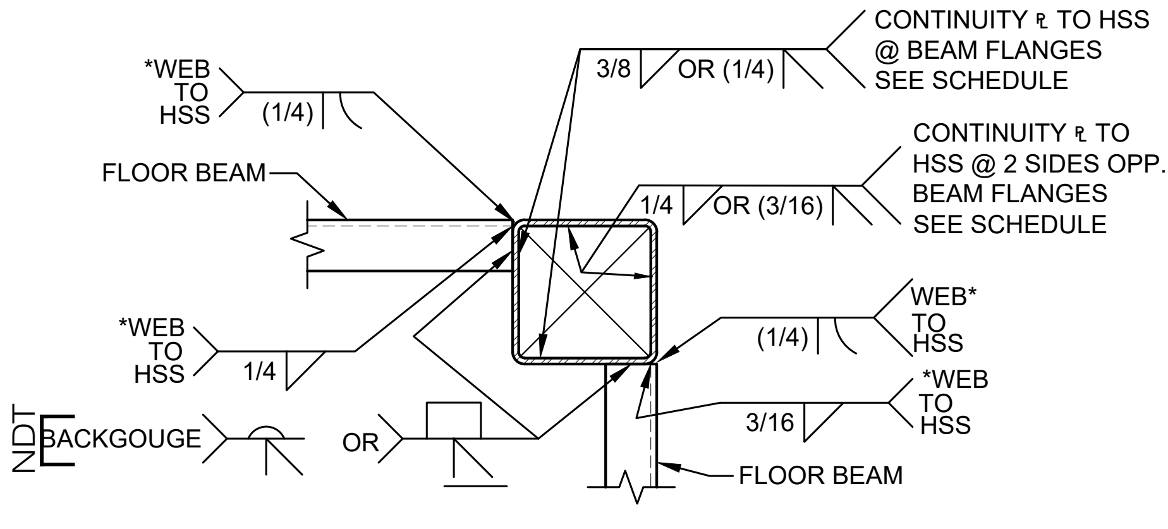
** FULL PEN WELD ALTERNATE - DETAIL 5B,MAY BE USED AS AN ALTERNATIVE TO THE DOUBLE SIDED FLANGE-TO-COLUMN WELDS SHOWN. NDT

## TYP. CORNER TO FLOOR BM DETAIL

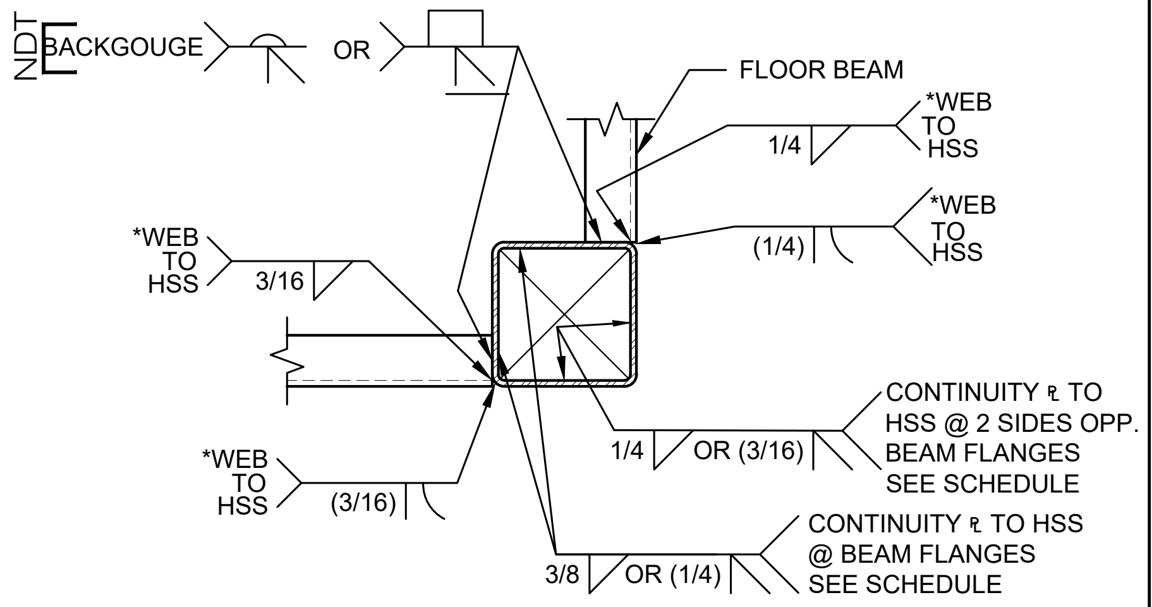
SCALE: 1 1/2"=1'-0" 5


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 ℓ TO HSS @ BEAM FLANGES SEE SCHEDULE 3/8 OR (1/4)
CONTINUITY ℓ 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
*WEB TO HSS (3/16)
CONTINUITY ℓ TO HSS @ 2 SIDES OPP. BEAM FLANGES SEE SCHEDULE 1/4 OR (3/16)
CONTINUITY ℓ 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

## ALTERNATE CORNER DETAIL

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

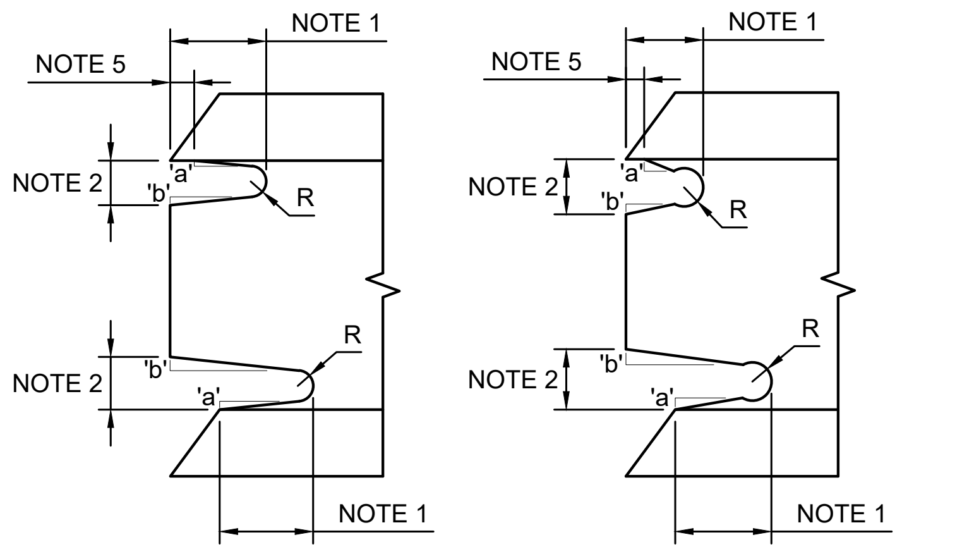
NON-DESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION (CJP) GROVE WELDS AT THE MOMENT-RESISTING BEAM-TO-COLUMN CONNECTIONS SHALL COMPLY WITH AISC 341-16 CHAPTER J PER CBC 1705A.2.1.

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 WELDED MATERIAL 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

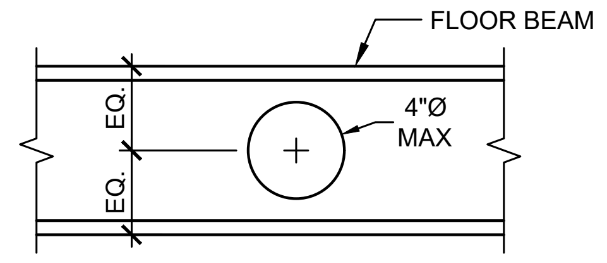


ALTERNATE 1 ALTERNATE 2

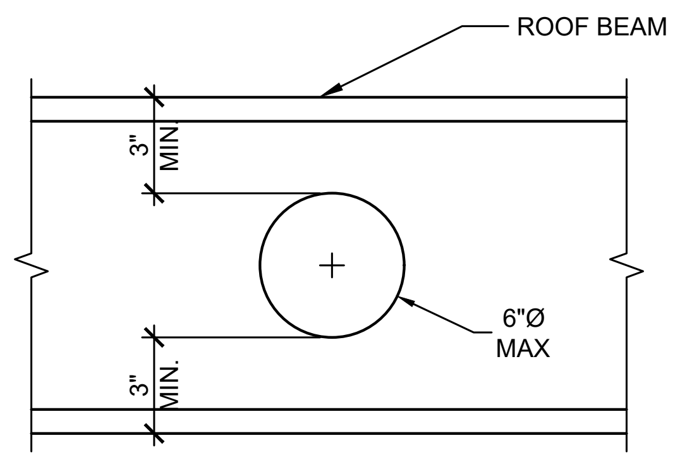
NOTES: THESE ARE TYPICAL DETAILS FOR JOINTS WELDED FROM ONE SIDE AGAINST STEEL BACKING WHERE WELD ACCESS HOLES ARE REQUIRED.

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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STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
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~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

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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
11/21/2023

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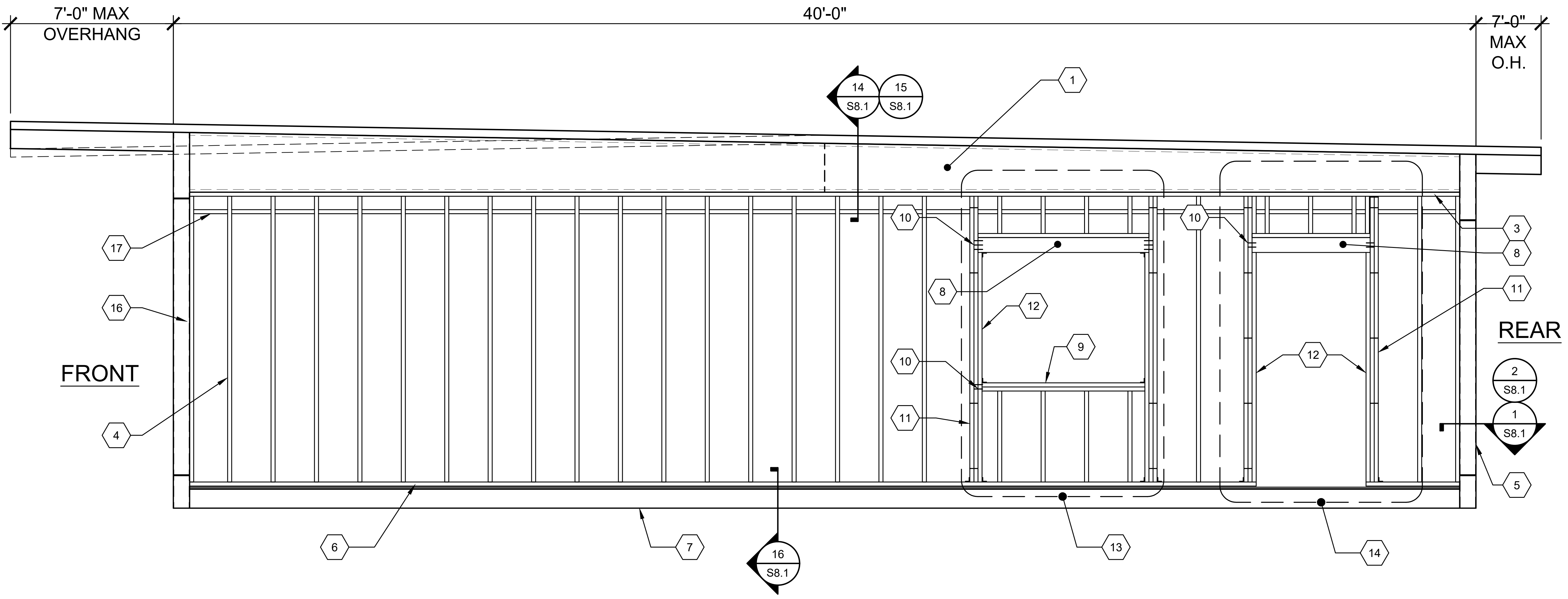
REVISIONS
1
2
3
4

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-22

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
17. FIRE BLOCKING @ 10'-0" AFF VERTICALLY, HORIZONTALLY AT THE CEILING AND FLOOR LEVELS.

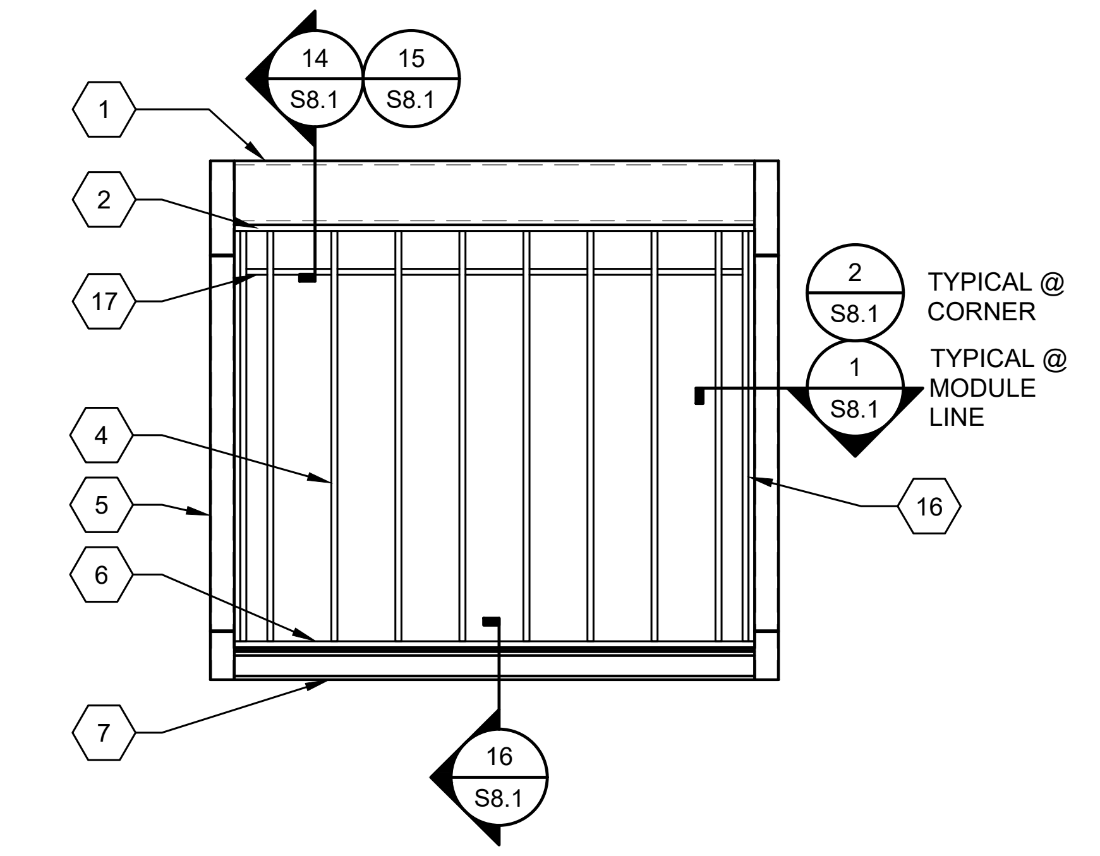
NOTE: SEE CARPENTRY NOTES SHEET N1.0 SECTION 6
FOR WOOD SPECIES & GRADE

## KEY NOTES

| EXTERIOR WALL SCHEDULE | | | |
|---|---|---|---|
| FINISH TYPE | WALL FINISH COMMENTS | STUD TYPE | STUD SPACING |
| 5/16" HARDI-BOARD w/ SYNTHETIC STUCCO<br>OR<br>5/16" HARDI-LAP SIDING | WALL FINISH PER A5.4, A5.5, A5.6 & A5.7 | HEM FIR #2<br>OR<br>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<br>OR<br>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).

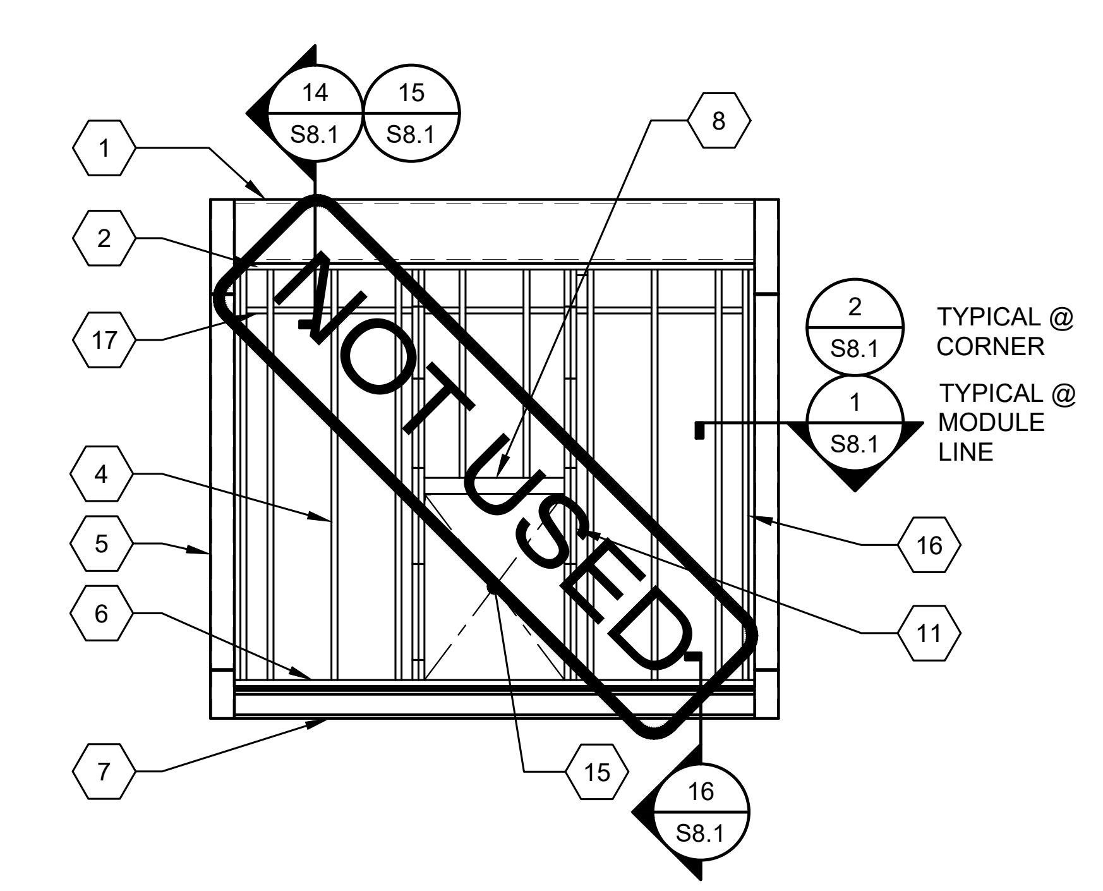
## EXTERIOR WALL FINISH/WALL STUD SCHEDULE



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

## TYP. END WALL FRAMING w/ NO OPENINGS

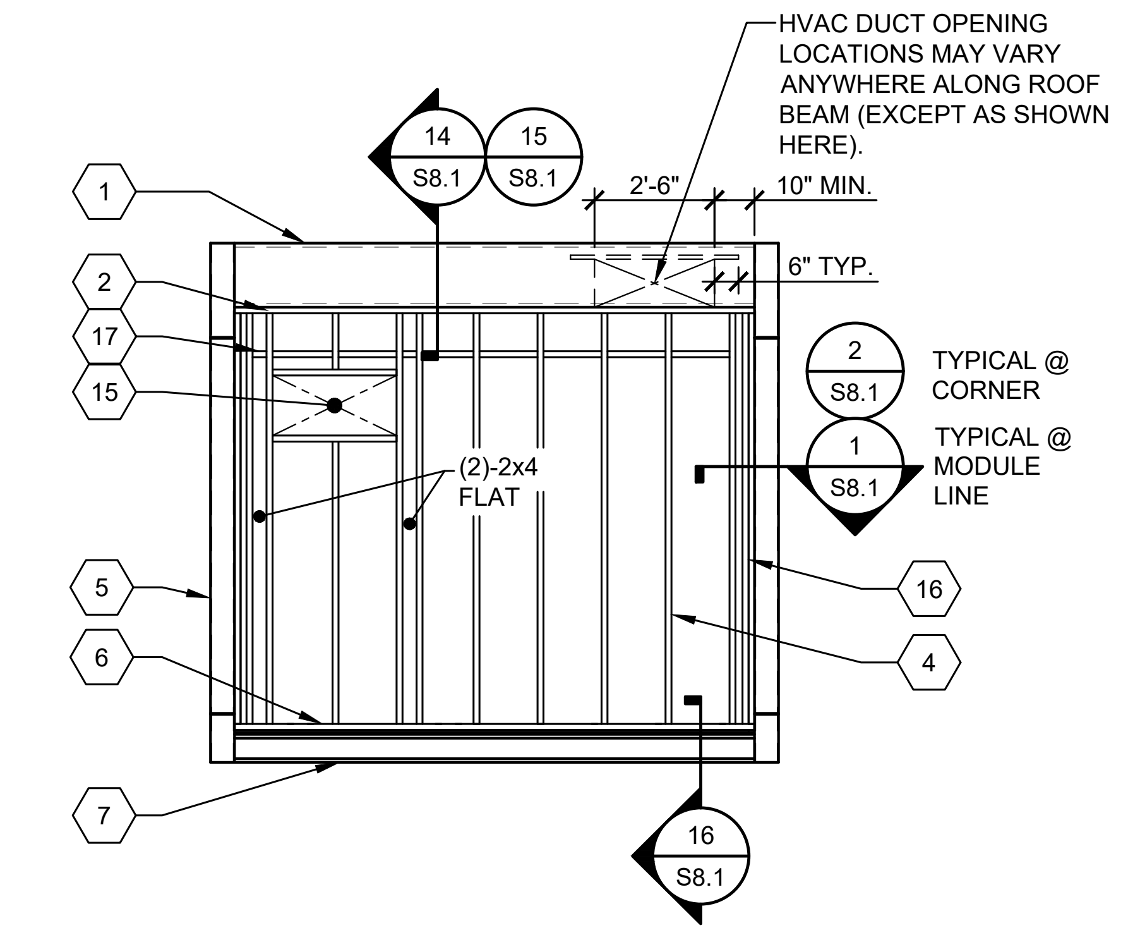
SCALE: 1/4"=1'-0" 1



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

## TYP. END WALL FRAMING w/ INDOOR HVAC UNIT (OPTIONAL)

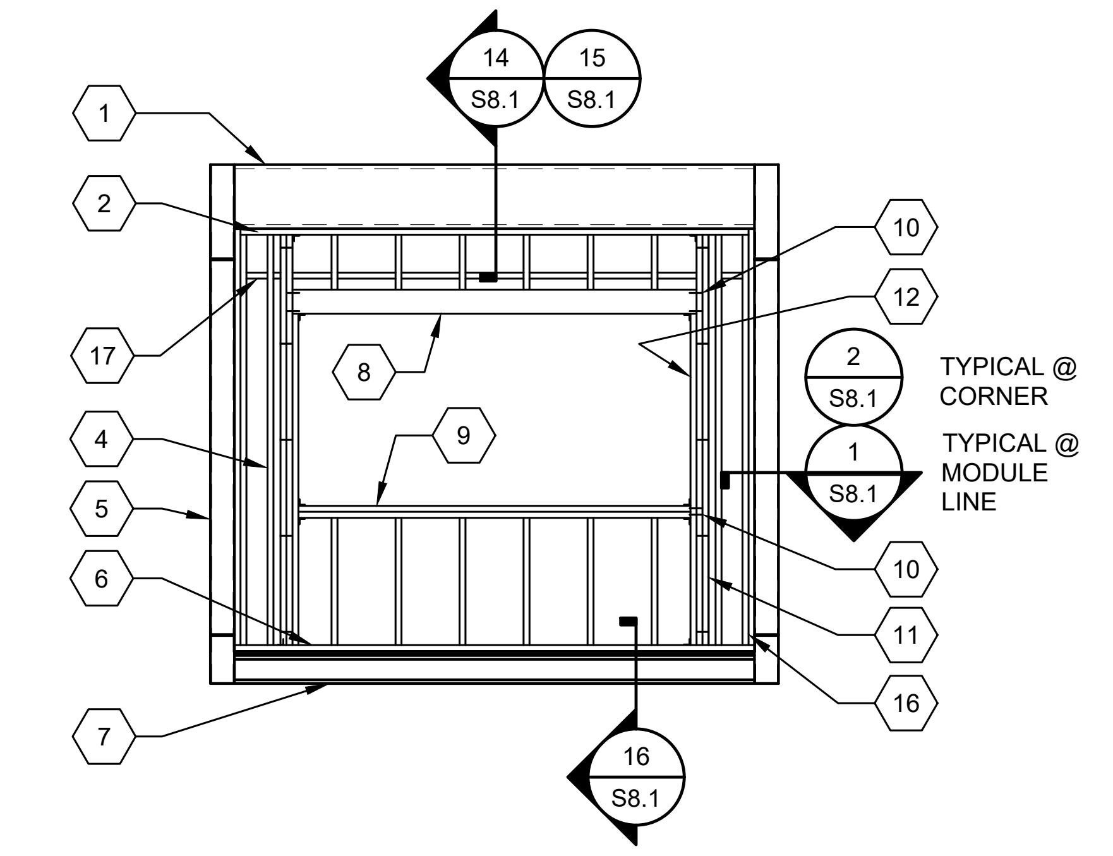
SCALE: 1/4"=1'-0" 2


HVAC DUCT OPENING LOCATIONS MAY VARY ANYWHERE ALONG ROOF BEAM (EXCEPT AS SHOWN HERE).
2'-6"
10" MIN.
6" TYP.
(2)-2x4 FLAT
1
2
17
15
5
6
7
16
4
14 S8.1
15 S8.1
2 S8.1 TYPICAL @ CORNER
1 S8.1 TYPICAL @ MODULE LINE
16 S8.1

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

## TYP. END WALL FRAMING w/ WALL HUNG HVAC UNIT (OPTIONAL)

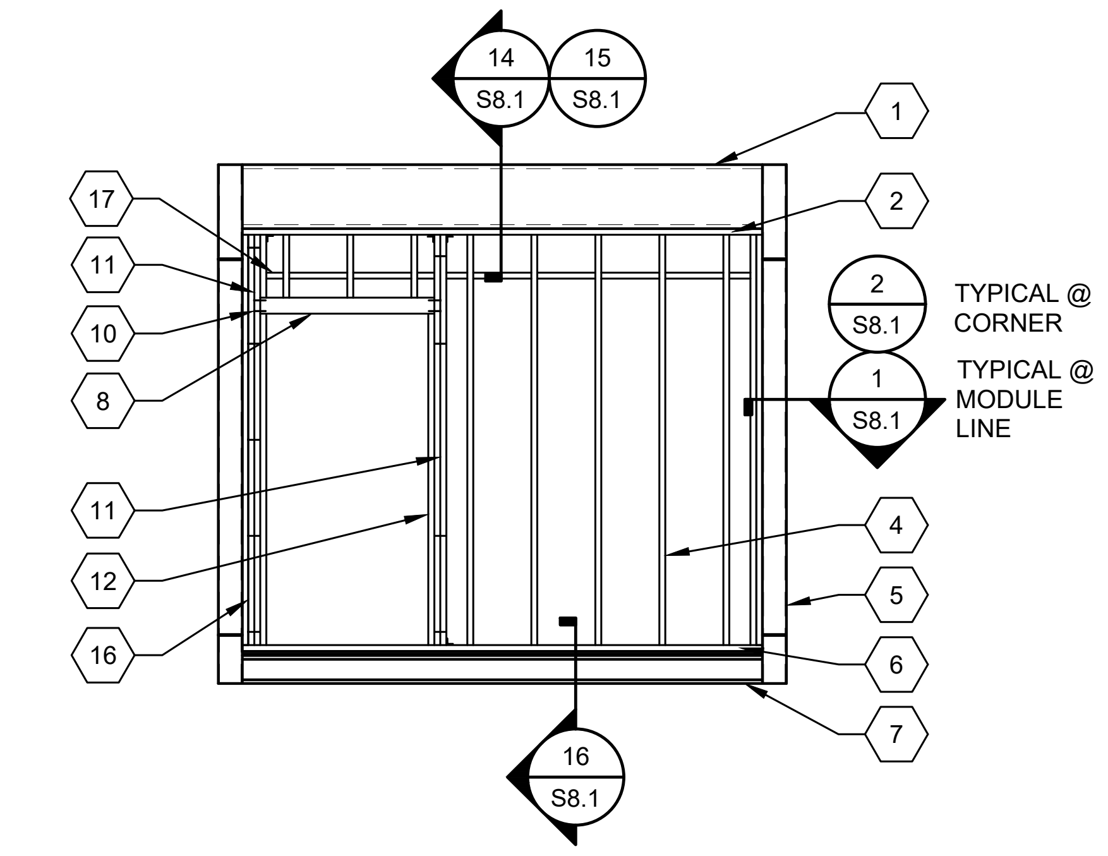
SCALE: 1/4"=1'-0" 3



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) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | HEADER TO KING STUD NAILING | | WINDOW SILL TO KING STUD NAILING | |
| OPENING SIZE | HEADER | WINDOW SILL[2] (AS APPLICABLE) | KING STUDS[1] | KING STUD INTERNAIL SPACING | # 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 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | HEADER TO KING STUD NAILING | | WINDOW SILL TO KING STUD NAILING | |
| OPENING SIZE | HEADER | WINDOW SILL[2] (AS APPLICABLE) | KING STUDS[1] | KING STUD INTERNAIL SPACING | # 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, INTERNAIL w/ 0.131"Øx3" NAILS @ 12" O.C. STAGGERED.
3. TWO (2) END NAILS PER LAMINATION MINIMUM.

## OPENING SCHEDULE

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24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
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FORM

SITE SPECIFIC PROJECT NAME
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DIV. OF THE STATE ARCHITECT
APP: 04-122050 PC
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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
11/21/2023

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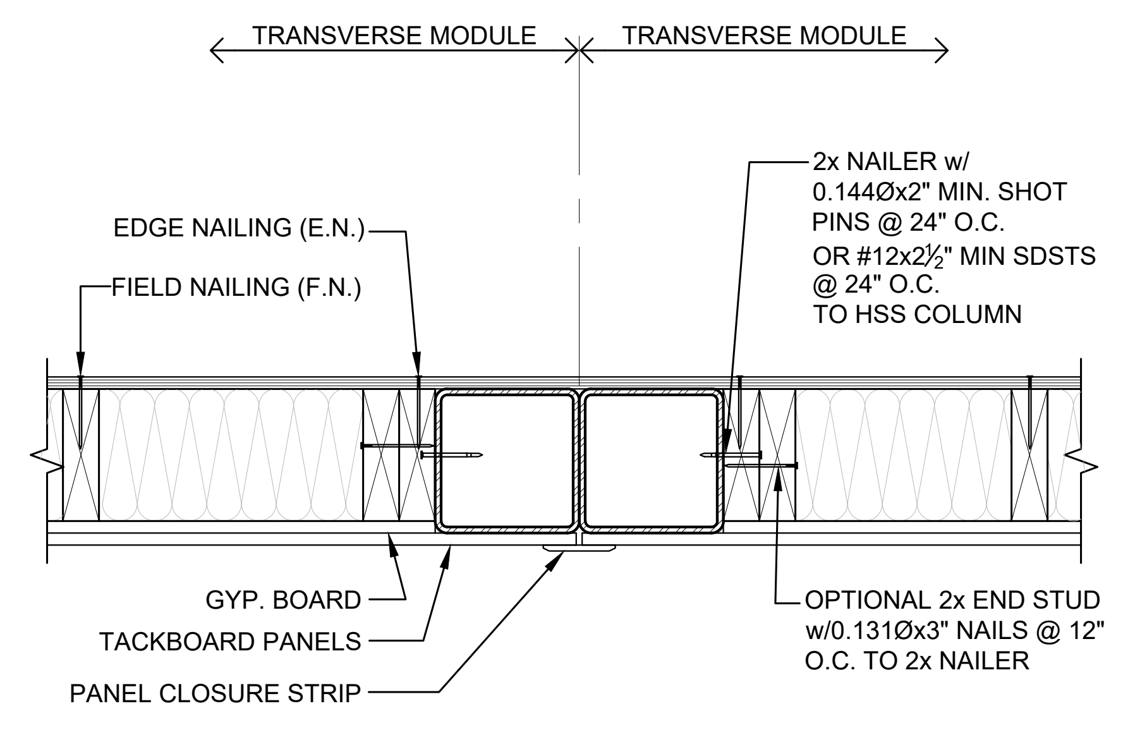
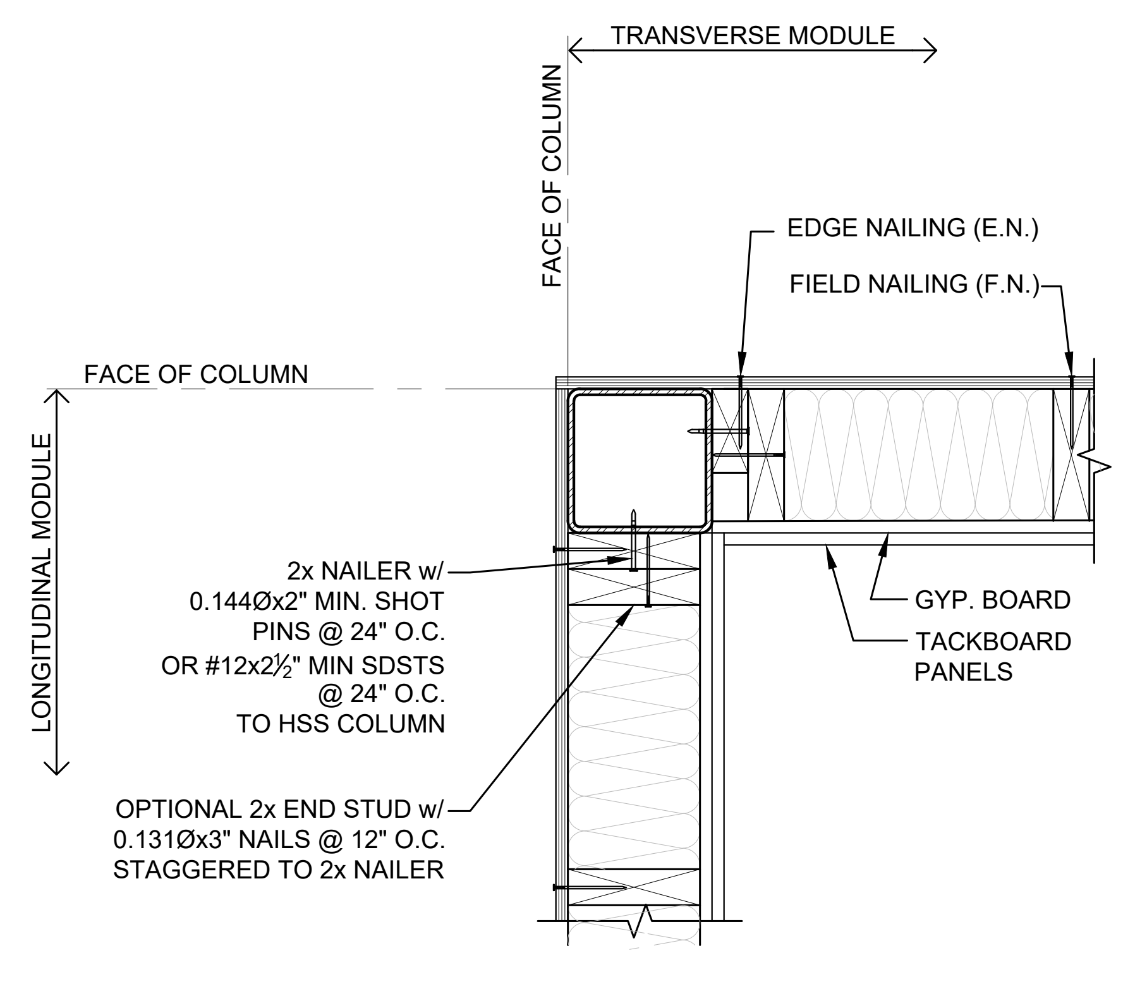
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:
WALL FRAMING
ELEVATIONS & SCHEDULES
- WOOD STUDS

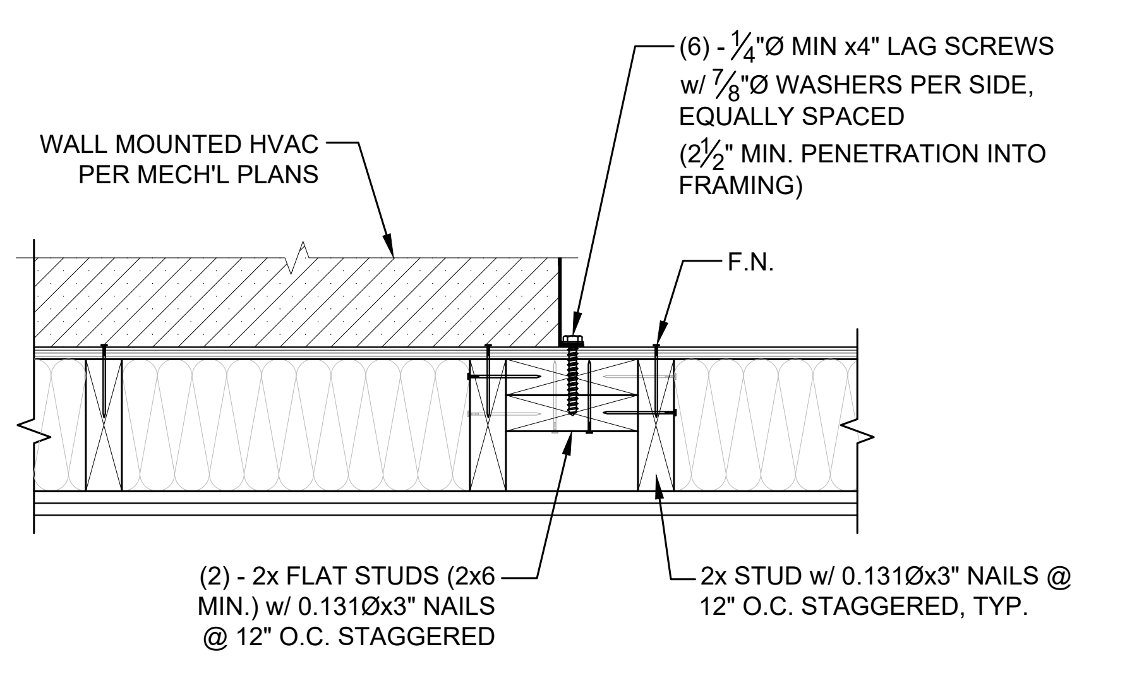
SHEET NUMBER:
S8.0


TRANSVERSE MODULE
TRANSVERSE MODULE
EDGE NAILING (E.N.)
FIELD NAILING (F.N.)
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
PANEL CLOSURE STRIP
OPTIONAL 2x END STUD w/0.131Øx3" NAILS @ 12" O.C. TO 2x NAILER

WALL TO COLUMN TYP. DETAIL @ MODLINES 1
FOR COLUMN LOCATION REFER TO ARCH. DETAILS
SCALE: 1-1/2" = 1'-0"

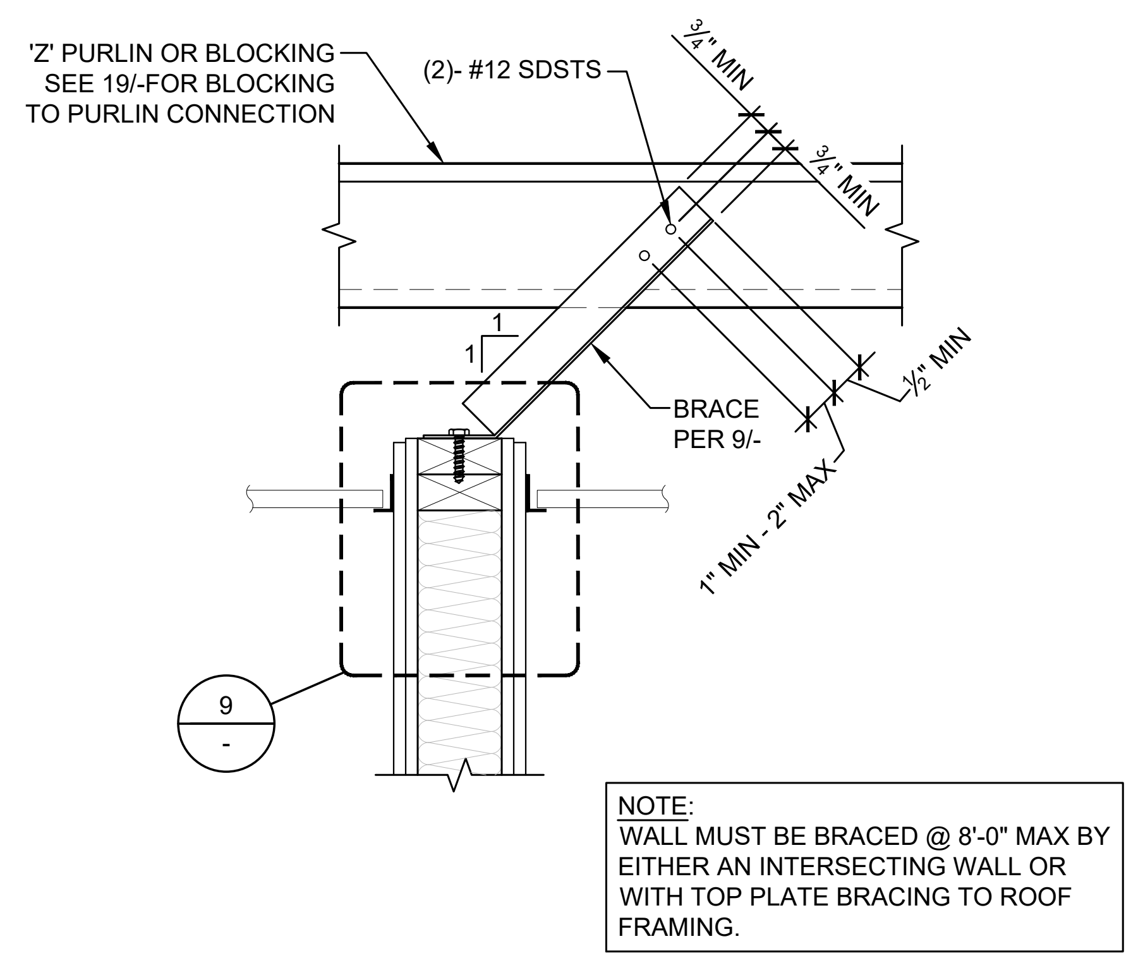

TRANSVERSE MODULE
FACE OF COLUMN
FACE OF COLUMN
LONGITUDINAL MODULE
EDGE NAILING (E.N.)
FIELD NAILING (F.N.)
2x NAILER w/ 0.144Øx2" MIN. SHOT PINS @ 24" O.C. OR #12x2½" MIN SDSTS @ 24" O.C. TO HSS COLUMN
GYP. BOARD
TACKBOARD PANELS
OPTIONAL 2x END STUD w/ 0.131Øx3" NAILS @ 12" O.C. STAGGERED TO 2x NAILER

WALL TO COLUMN TYP. DETAIL @ CORNER 2
FOR COLUMN LOCATION REFER TO ARCH. DETAILS
SCALE: 1-1/2" = 1'-0"


WALL MOUNTED HVAC PER MECH'L PLANS
(6) - ¼"Ø MIN x4" LAG SCREWS w/ 7/16"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.

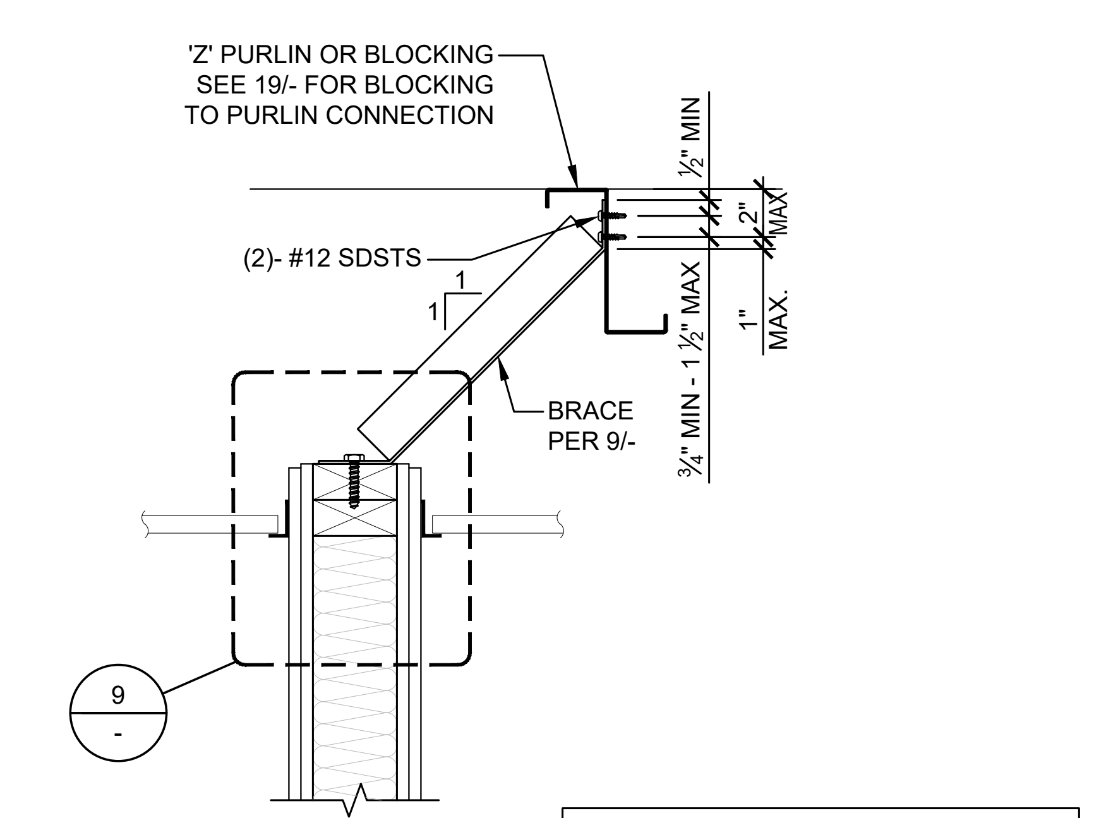
WALL HUNG HVAC ATTACHMENT DETAIL 3
SCALE: 1-1/2" = 1'-0"

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
-

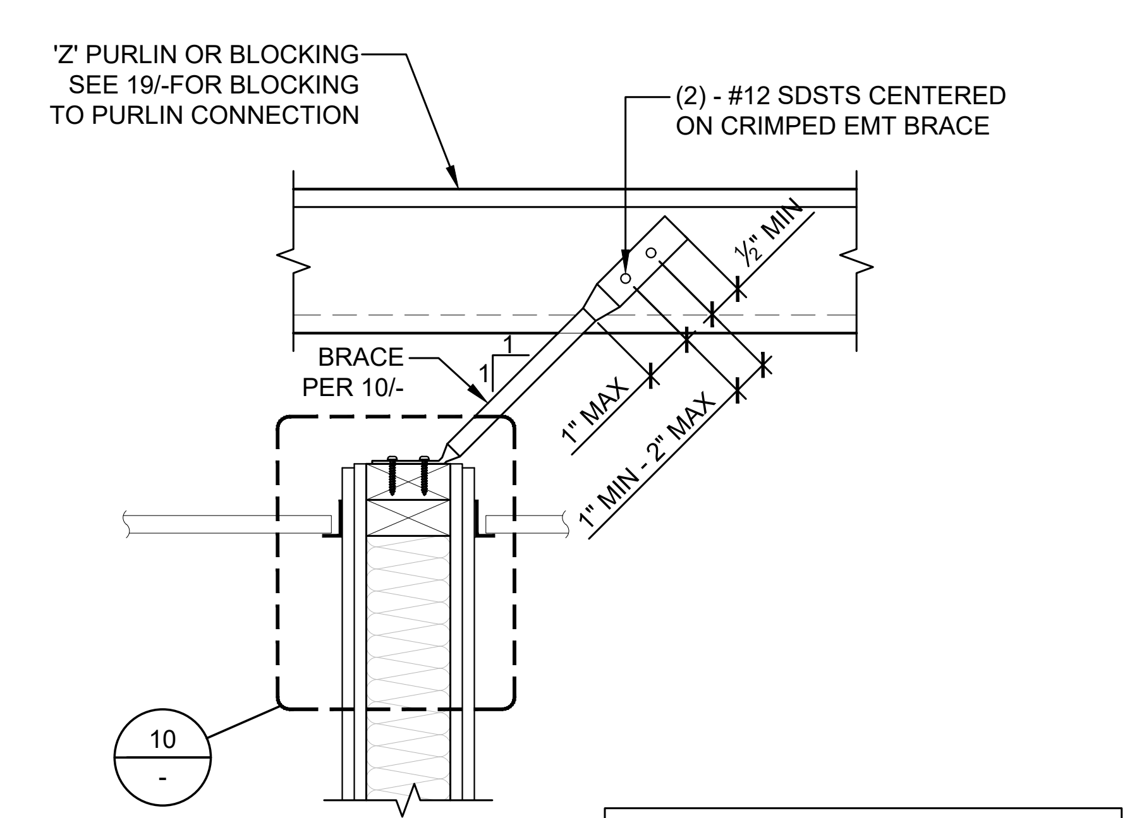
NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

TYP. INTERIOR WALL BRACING 5
BRACE PARALLEL TO PURLINS
SCALE: 1-1/2" = 1'-0"


'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
-

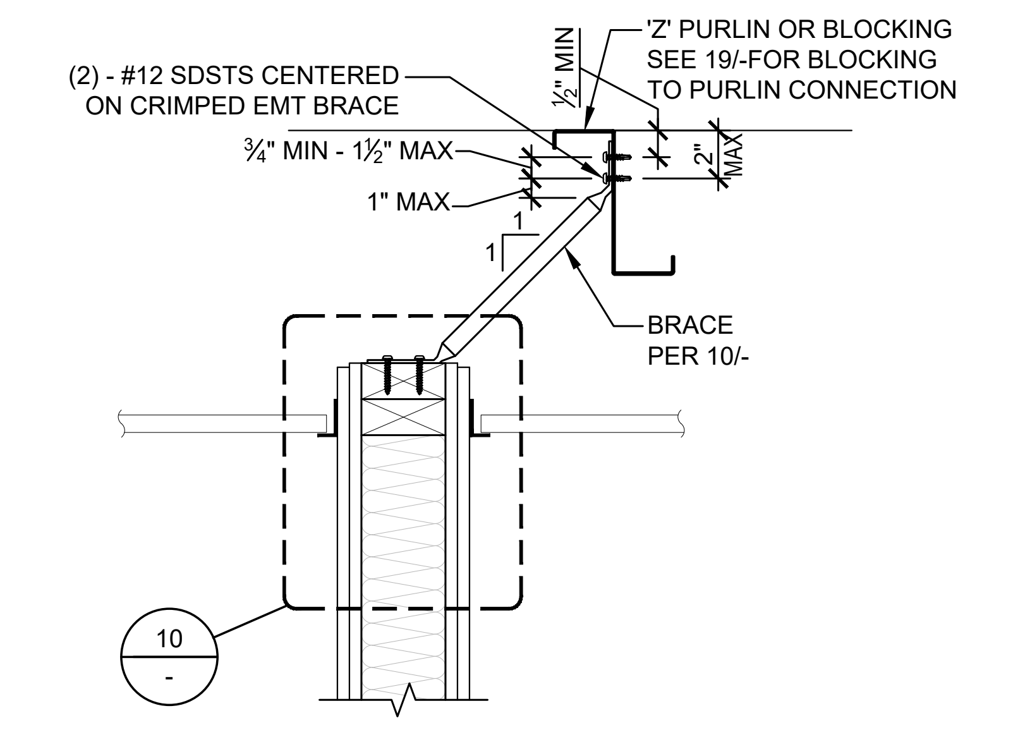
NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

TYP. INTERIOR WALL BRACING 6
BRACE PERPENDICULAR TO PURLINS
SCALE: 1-1/2" = 1'-0"


'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" MAX
1" MIN - 2" MAX
1
1
10
-

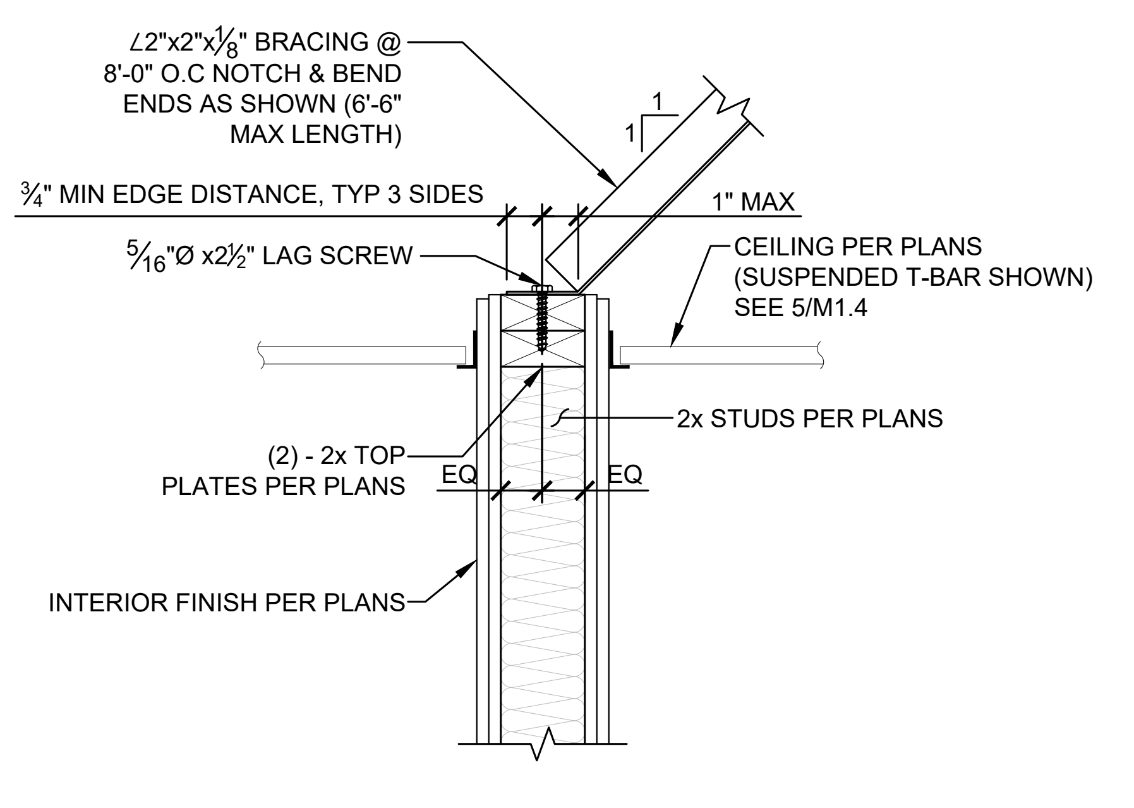
NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

ALT. INTERIOR WALL BRACING w/ EMT BRACE 7
BRACE PARALLEL TO PURLINS
SCALE: 1-1/2" = 1'-0"


(2) - #12 SDSTS CENTERED ON CRIMPED EMT BRACE
¾" MIN - 1½" MAX
1" MAX
½" MIN
2" MAX
'Z' PURLIN OR BLOCKING SEE 19/-FOR BLOCKING TO PURLIN CONNECTION
BRACE PER 10/-
10
-

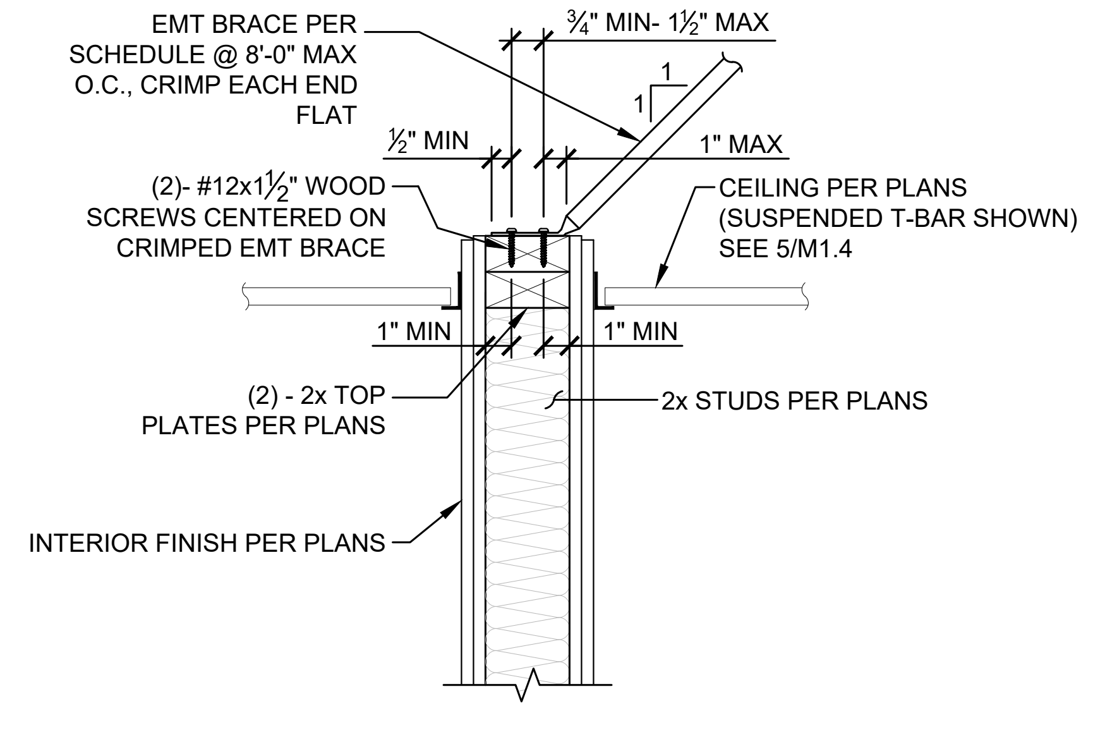
NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

ALT. INTERIOR WALL BRACING w/ EMT BRACE 8
BRACE PERPENDICULAR TO PURLINS
SCALE: 1-1/2" = 1'-0"

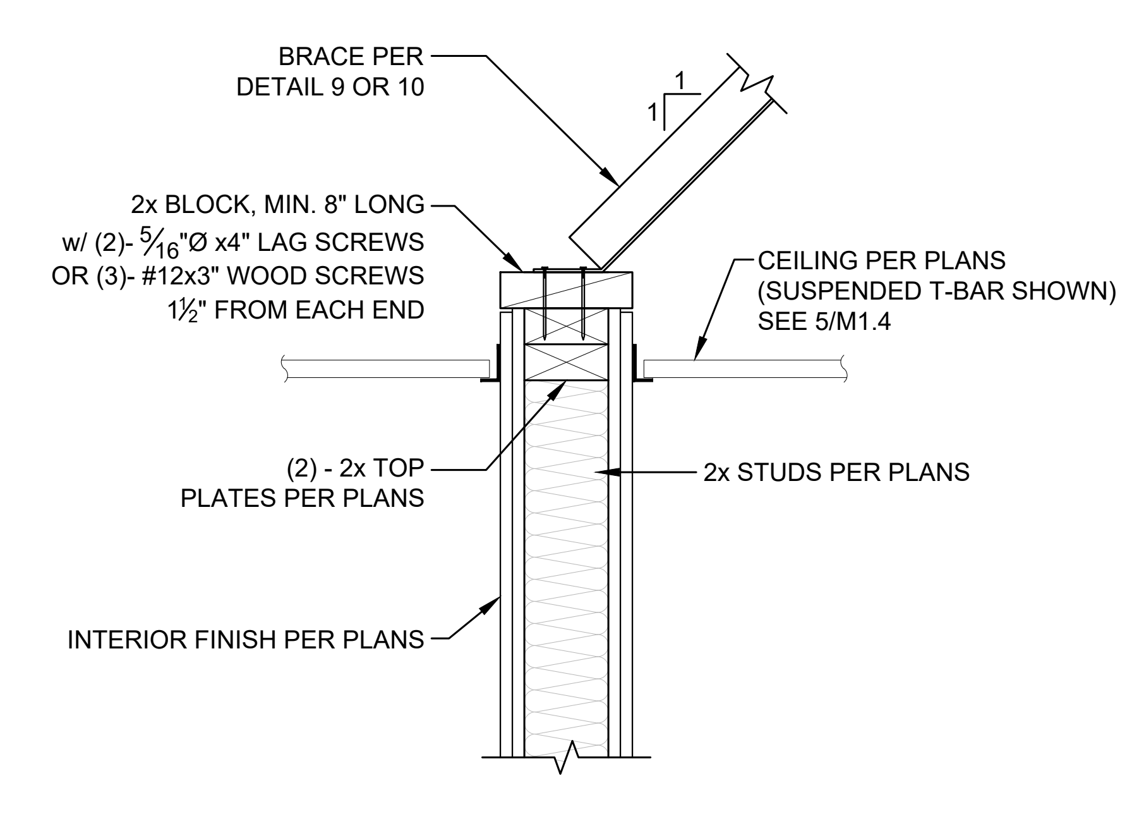

∠2"x2"x⅛" BRACING @ 8'-0" O.C NOTCH & BEND ENDS AS SHOWN (6'-6" MAX LENGTH)
¾" MIN EDGE DISTANCE, TYP 3 SIDES
5/16"Ø x2½" LAG SCREW
1
1
1" MAX
CEILING PER PLANS (SUSPENDED T-BAR SHOWN) SEE 5/M1.4
2x STUDS PER PLANS
(2) - 2x TOP PLATES PER PLANS
EQ
EQ
INTERIOR FINISH PER PLANS

TYP. INTERIOR WALL BRACING 9
INTERIOR PARTITION BRACING
SCALE: 1-1/2" = 1'-0"

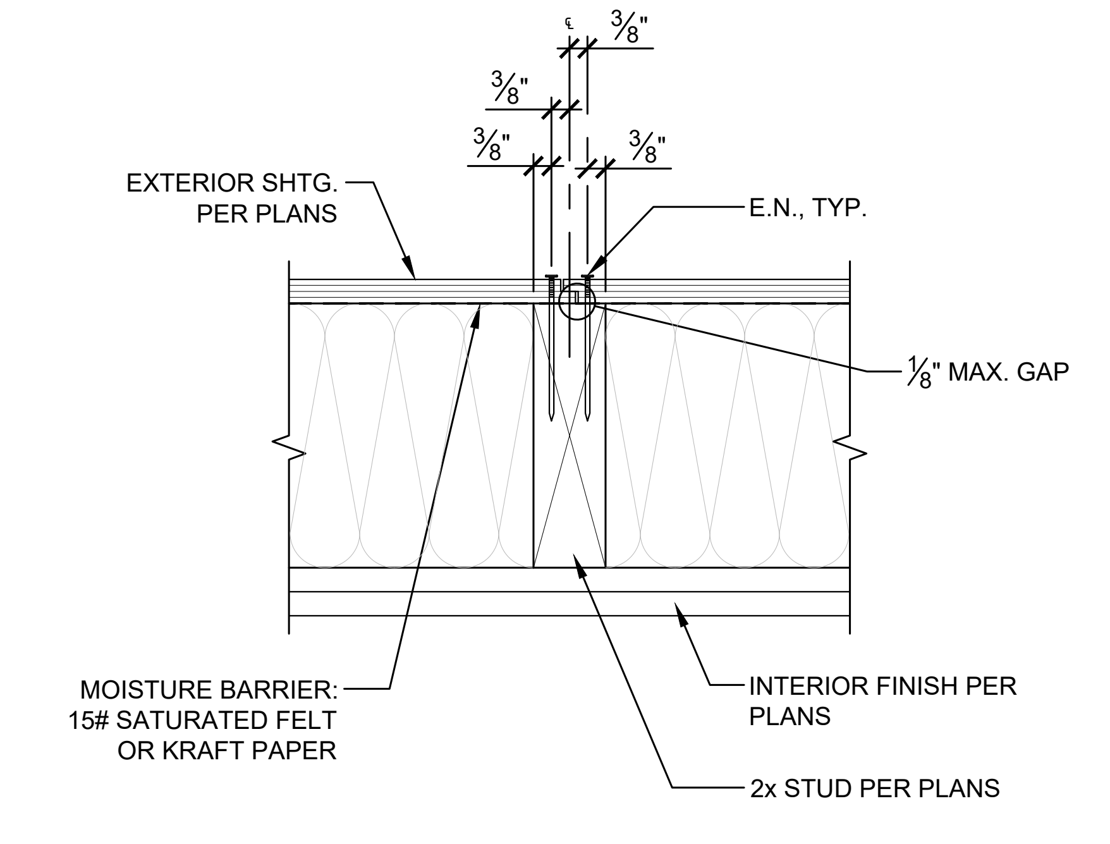
| EMT BRACE SCHEDULE | |
|---|---|
| MAX LENGTH | EMT SIZE |
| 5'-2" | ¾"Ø |
| 6'-6" | 1"Ø |


EMT BRACE PER SCHEDULE @ 8'-0" MAX O.C., CRIMP EACH END FLAT
¾" MIN- 1½" MAX
1
1
1" MAX
½" MIN
(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

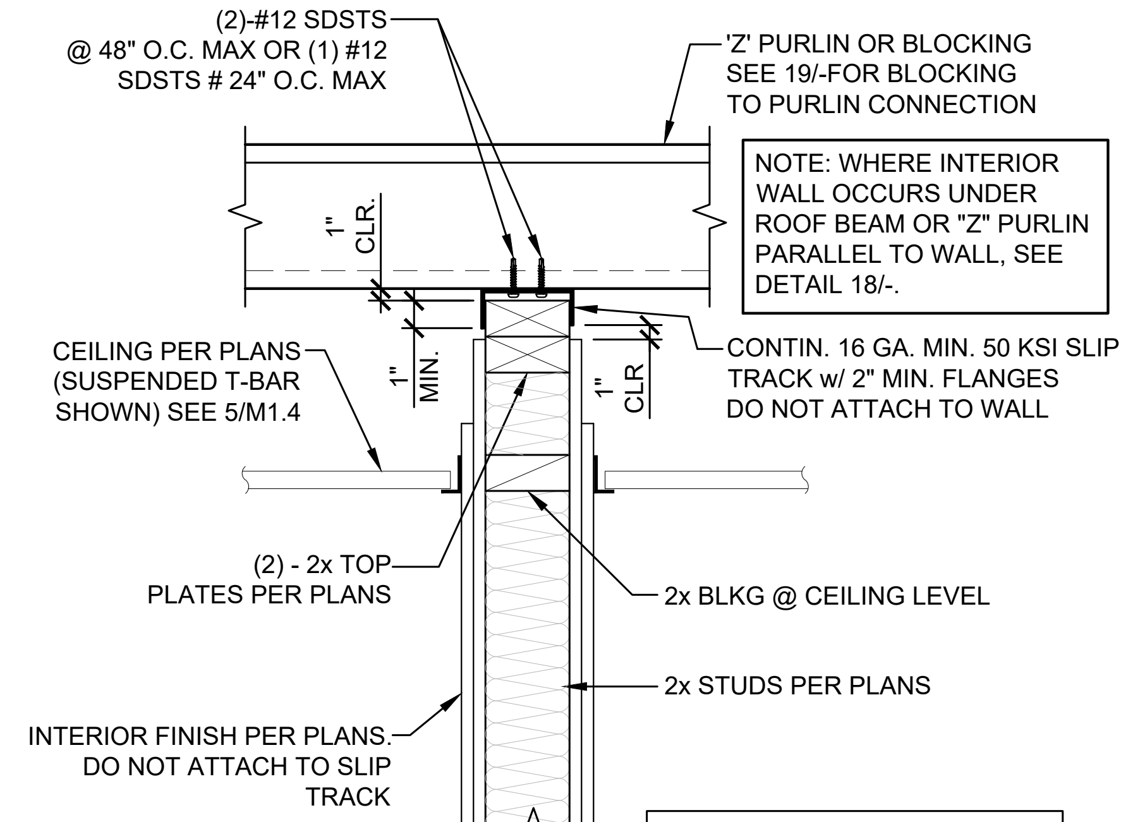
ALT. INTERIOR WALL BRACING 10
INTERIOR PARTITION BRACING w/ EMT BRACE
SCALE: 1-1/2" = 1'-0"


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


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

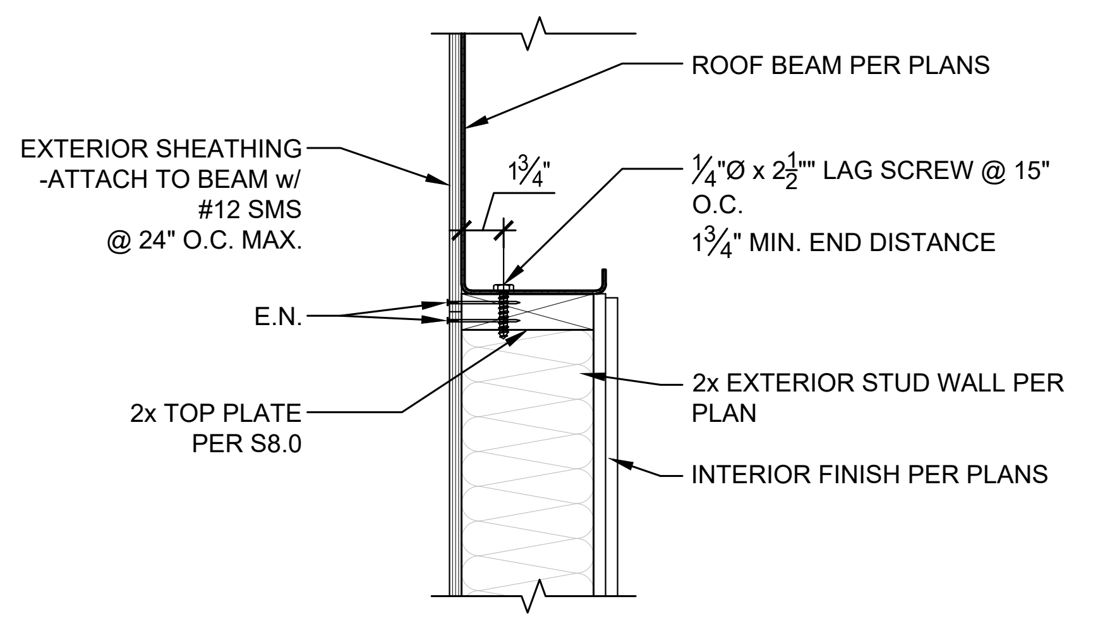
TYP. SHEATHING JOINT 12
SCALE: 1-1/2" = 1'-0"


(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

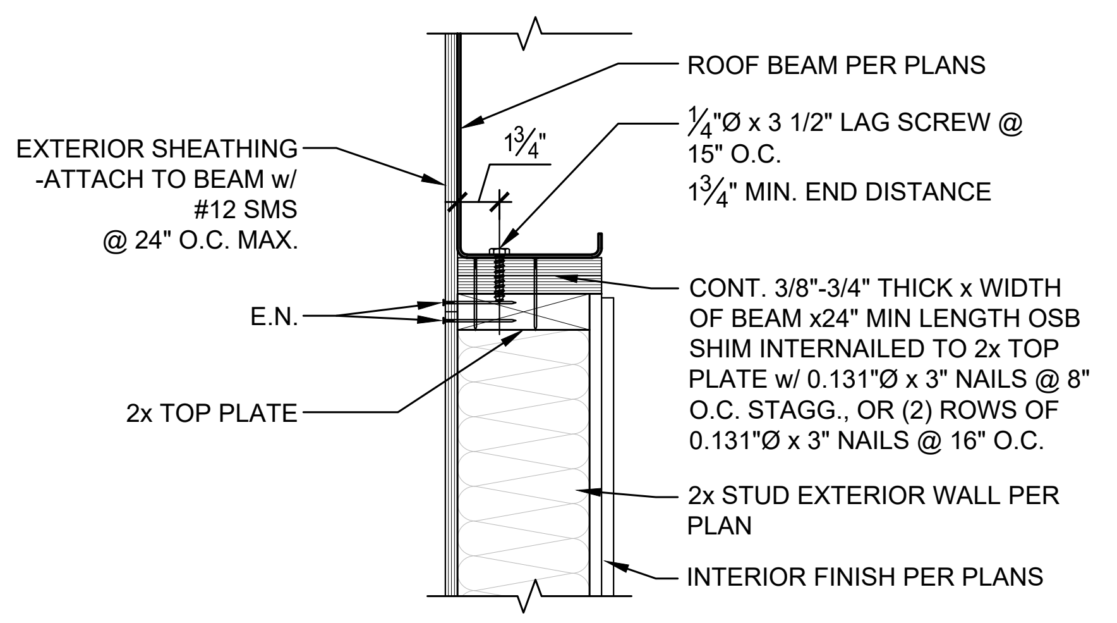
NOTE: WHERE INTERIOR WALL OCCURS UNDER ROOF BEAM OR "Z" PURLIN PARALLEL TO WALL, SEE DETAIL 18/-.

NOTE:
GYPSUM BOARD SHALL NOT BE ATTACHED TO THE SLIP TRACK.

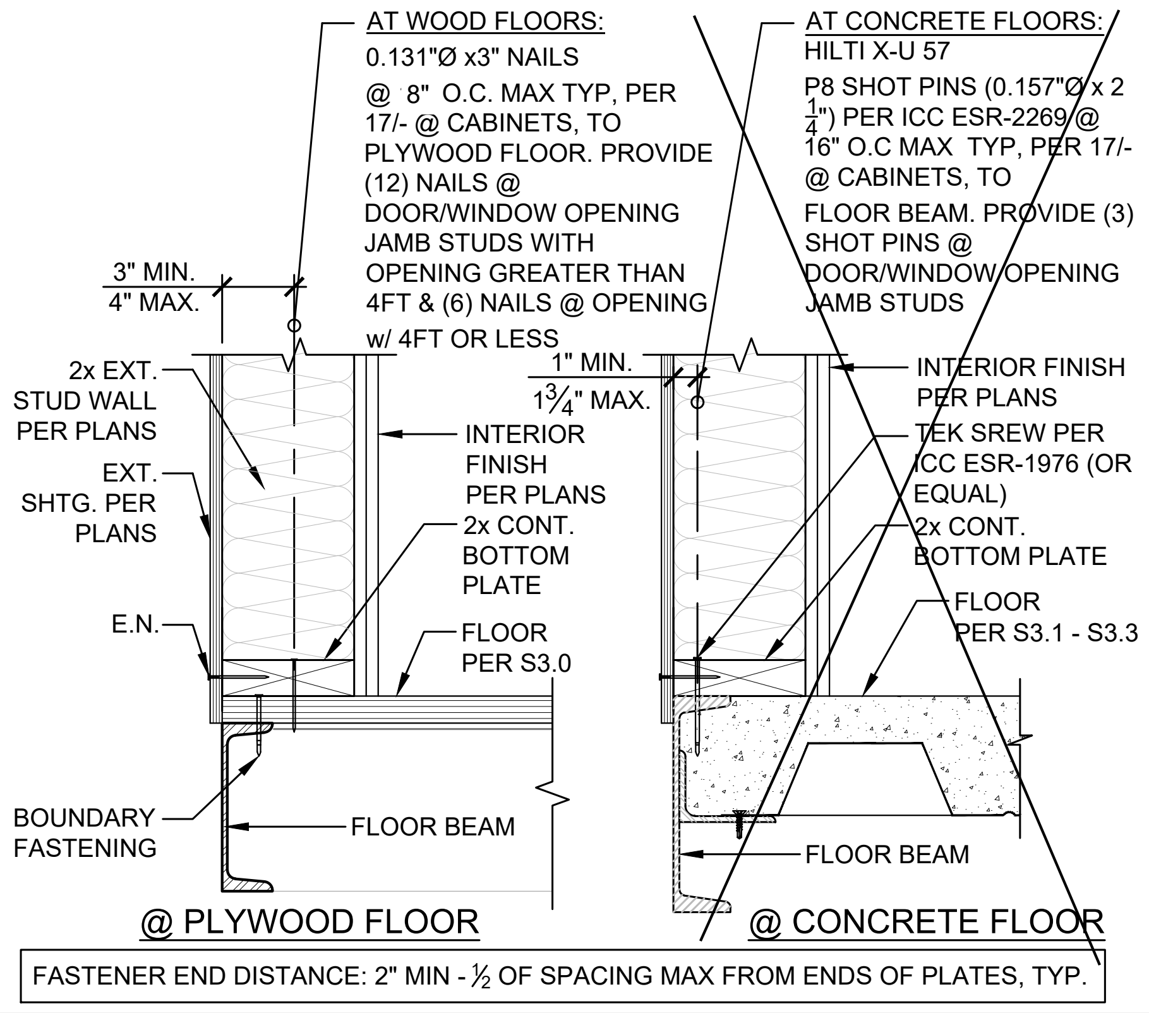
ALT. INTERIOR WALL ATTACHMENT 13
TO PURLINS OR BLOCKING PERPENDICULAR TO WALL
SCALE: 1-1/2" = 1'-0"


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 TOP PLATE PER S8.0
2x EXTERIOR STUD WALL PER PLAN
INTERIOR FINISH PER PLANS

EXTERIOR WALL TO ROOF BEAM DETAIL 14
SCALE: 1-1/2" = 1'-0"


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.
2x TOP PLATE
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 STUD EXTERIOR WALL PER PLAN
INTERIOR FINISH PER PLANS

EXTERIOR WALL TO ROOF BEAM DETAIL 15
AT SHIM CONDITION
SCALE: 1-1/2" = 1'-0"



AT WOOD FLOORS:
0.131"Ø x3" NAILS @ 8" O.C. MAX TYP, PER 17/- @ CABINETS, TO PLYWOOD FLOOR. PROVIDE (12) NAILS @ DOOR/WINDOW OPENING JAMB STUDS WITH OPENING GREATER THAN 4FT & (6) NAILS @ OPENING w/ 4FT OR LESS

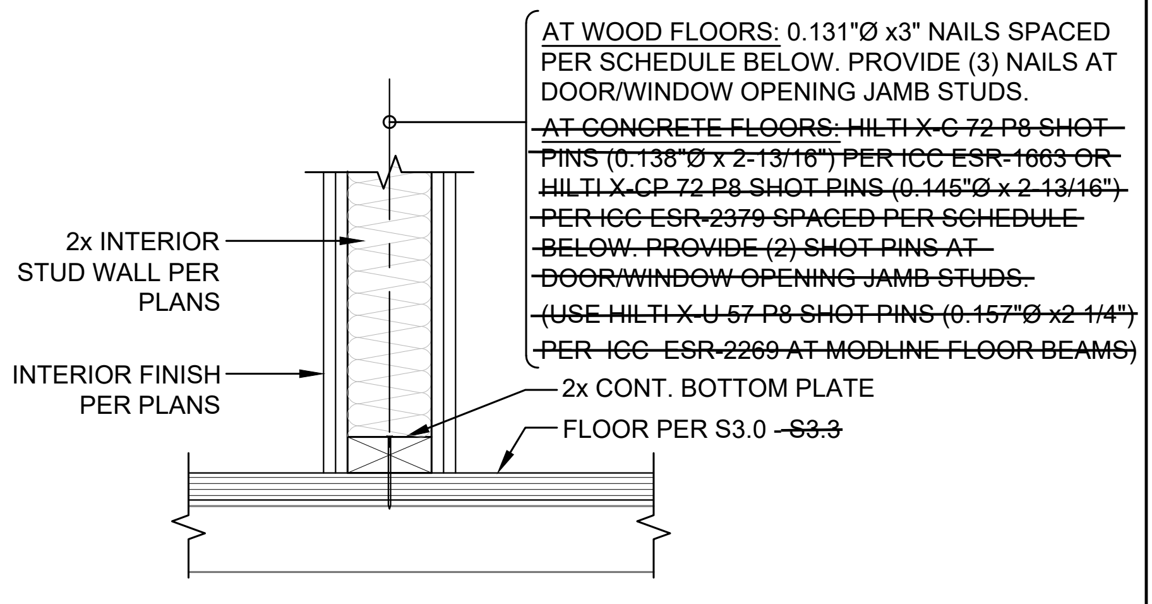
AT CONCRETE FLOORS:
HILTI X-U 57
P8 SHOT PINS (0.157"Ø x 2 ¼") PER ICC ESR-2269 @ 16" O.C MAX TYP, PER 17/- @ CABINETS, TO FLOOR BEAM. PROVIDE (3) SHOT PINS @ DOOR/WINDOW OPENING JAMB STUDS

@ PLYWOOD FLOOR

@ CONCRETE FLOOR

FASTENER END DISTANCE: 2" MIN - ½ OF SPACING MAX FROM ENDS OF PLATES, TYP.

TYP. EXTERIOR WALL TO FLOOR DETAIL 16
SCALE: 1-1/2" = 1'-0"


2x INTERIOR STUD WALL PER PLANS
INTERIOR FINISH PER PLANS
2x CONT. BOTTOM PLATE
FLOOR PER S3.0 ~~- S3.3~~

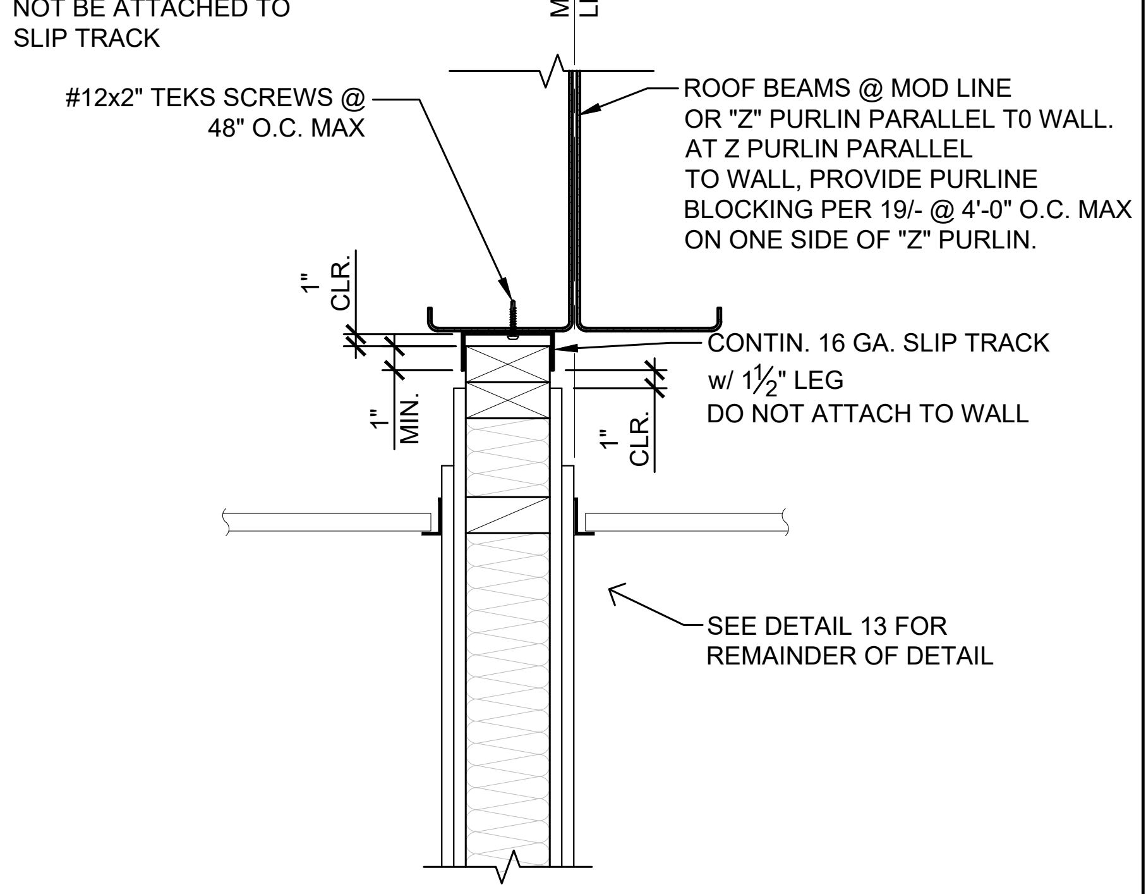
AT WOOD FLOORS: 0.131"Ø x3" NAILS SPACED PER SCHEDULE BELOW. PROVIDE (3) NAILS AT DOOR/WINDOW OPENING JAMB STUDS.
~~AT CONCRETE FLOORS: HILTI X-C 72 P8 SHOT PINS (0.138"Ø x 2-13/16") PER ICC ESR-1663 OR HILTI X-CP 72 P8 SHOT PINS (0.145"Ø x 2-13/16") PER ICC ESR-2379 SPACED PER SCHEDULE BELOW. PROVIDE (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)~~

| 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. |

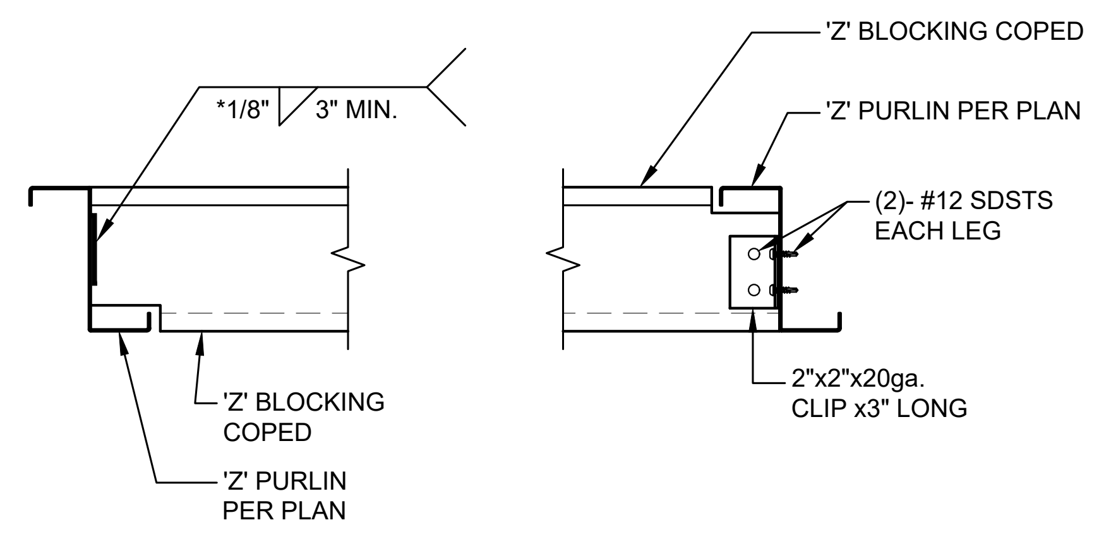
FASTENER END DISTANCE: 2" MIN - ½ OF SPACING MAX FROM ENDS OF PLATES, TYP.

TYP. INTERIOR NON-BEARING WALL ATTACHMENT 17
SCALE: 1-1/2" = 1'-0"

NOTE:
GYPSUM BOARD SHALL NOT BE ATTACHED TO SLIP TRACK


MOD LINE
#12x2" TEKS SCREWS @ 48" O.C. MAX
ROOF BEAMS @ MOD LINE OR "Z" PURLIN PARALLEL T0 WALL. AT Z PURLIN PARALLEL TO WALL, PROVIDE PURLINE BLOCKING PER 19/- @ 4'-0" O.C. MAX ON ONE SIDE OF "Z" PURLIN.
1" CLR.
1" MIN.
1" CLR.
CONTIN. 16 GA. SLIP TRACK w/ 1½" LEG DO NOT ATTACH TO WALL
SEE DETAIL 13 FOR REMAINDER OF DETAIL

TYP. INTERIOR NON-BEARING WALL ATTACHMENT 18
TO ROOF BEAMS @ MODLINE OR 'Z' PURLINS PARALLEL TO WALL
SCALE: 1-1/2" = 1'-0"



WELDED CONNECTION

MECHANICALLY FASTENED

*NOTE: MAX FILLET WELD SIZE SHALL BE EQUAL TO THE THE THICKNESS OF THE THINNER SHEET STEEL (AWS D1.3, SECTION 2.3.3)

PURLIN BLOCKING CONNECTIONS 19
SCALE: 1-1/2" = 1'-0"

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: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)

FORM

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ **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
11/21/2023

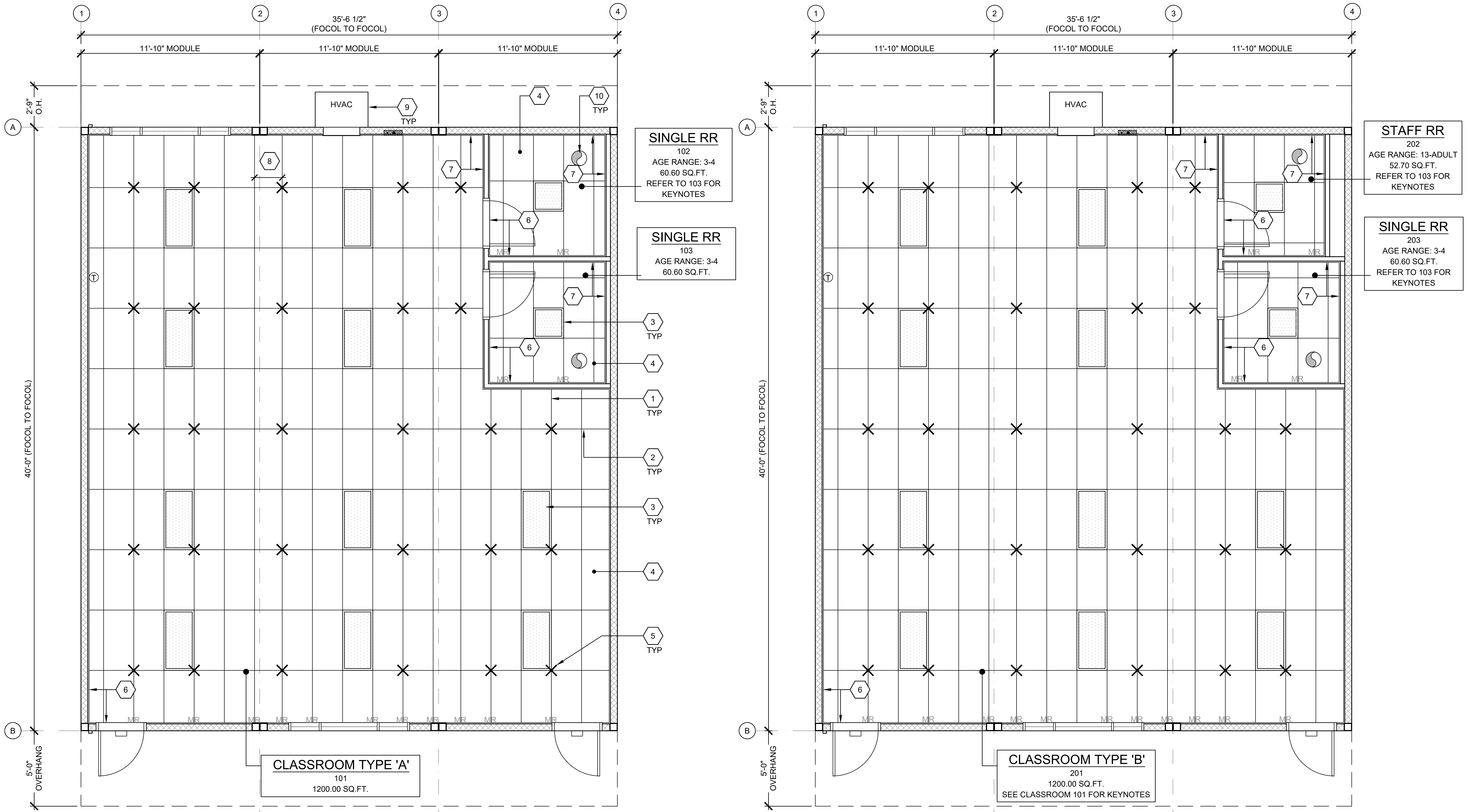
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE DESIGN PROFESSIONAL OF RECORD.

REVISIONS
1
2
3
4

| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:
WALL FRAMING
DETAILS
- WOOD STUDS

SHEET NUMBER:
S8.1



SERIAL NUMBERS:
26-101-001
26-101-002

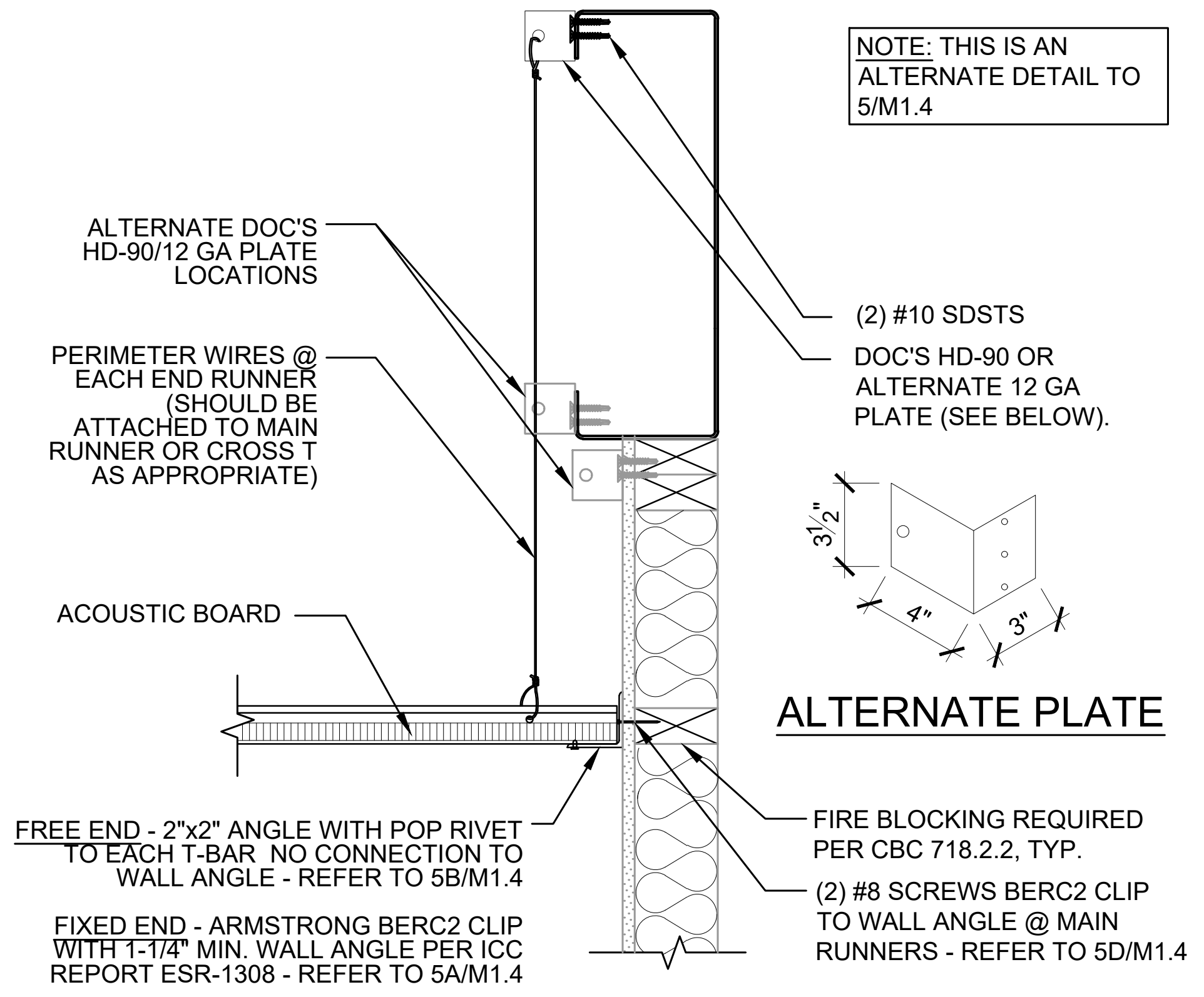
SERIAL NUMBERS:
26-101-003
26-101-004
26-101-005
26-101-006
26-101-007
26-101-008
26-101-009
26-101-010
26-101-011

## REFLECTED CEILING PLAN

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

## NOT USED

## NOT USED


NOTE: THIS IS AN ALTERNATE DETAIL TO 5/M1.4
ALTERNATE DOC'S HD-90/12 GA PLATE LOCATIONS
PERIMETER WIRES @ EACH END RUNNER (SHOULD BE ATTACHED TO MAIN RUNNER OR CROSS T AS APPROPRIATE)
ACOUSTIC BOARD
(2) #10 SDSTS
DOC'S HD-90 OR ALTERNATE 12 GA PLATE (SEE BELOW).
3½"
4"
3"
ALTERNATE PLATE
FREE END - 2"x2" ANGLE WITH POP RIVET TO EACH T-BAR NO CONNECTION TO WALL ANGLE - REFER TO 5B/M1.4
FIXED END - ARMSTRONG BERC2 CLIP WITH 1-1/4" MIN. WALL ANGLE PER ICC REPORT ESR-1308 - REFER TO 5A/M1.4
FIRE BLOCKING REQUIRED PER CBC 718.2.2, TYP.
(2) #8 SCREWS BERC2 CLIP TO WALL ANGLE @ MAIN RUNNERS - REFER TO 5D/M1.4

## SUSPENDED CEILING ATTACHMENT DETAIL

| BUILDING SIZE SCHEDULE | | | | |
|---|---|---|---|---|
| | BUILDING SIZE (FT) | TOTAL # OF 12'-0" WIDE MODULES | TOTAL # OF CENTER MODULES | OVERALL BUILDING WIDTH[1] |
| ☐ | 24'x40' | 2 | 0 | 23'-8½" |
| ☒ | 36'x40' | 3 | 1 | 35'-6¾" |
| ☐ | 48'x40' | 4 | 2 | 47'-5" |
| ☐ | 60'x40' | 5 | 3 | 59'-3¼" |
| ☐ | 72'x40' | 6 | 4 | 71'-1½" |
| ☐ | 84'x40' | 7 | 5 | 82'-11¾" |
| ☐ | 96'x40' | 8 | 6 | 94'-10" |
| ☐ | 108'x40' | 9 | 7 | 106'-8¼" |
| ☐ | 120'x40' | 10 | 8 | 118'-6½" |

NOTES:

1. TOTAL BUILDING WIDTH INCLUDES ¼" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEET S1.1

## BUILDING SIZE SCHEDULE

| | |
|---|---|
| 1 | MAIN TEE RUNNER TYP. PER TABLE A, SHEET M1.7 |
| 2 | CROSS TEE RUNNER TYP. PER TABLE A, SHEET M1.7 |
| 3 | INTERIOR LIGHT FIXTURE, REFER TO SHEET SHEET E1.0 FOR SPEC'S ATTACHMENT PER DETAIL 7/M1.4 |
| 4 | CEILING HEIGHT @ 8'-6" MIN. |
| 5 | STRUT/SPLAY WIRE ASSEMBLY, SEE 2/M1.4 FOR DETAILS |
| 6 | FIXED CEILING END, SEE DETAIL 5A/M1.4 |
| 7 | FREE CEILING END, SEE DETAIL 5B/M1.4 |
| 8 | CENTER SECTION THAT CROSSES MODULE LINE TO BE FIELD INSTALLED, SEE DETAIL 5C/M1.4 |
| 9 | TYP. HVAC UNIT |
| 10 | EXHAUST FAN - SEE M1.1 |

## KEY NOTES

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER C.M.C. 608.1 EXCEPTION #2.
3. LIGHT FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
4. PC TITLE 24 HAS BEEN RUN FOR WORSE CASE OUTDOOR VENTILATION REQUIREMENTS (SEE OUTDOOR VENTILATION ON SHEET N2.0 FOR OUR OUTDOOR VENTILATION DESIGN REQUIREMENT NOTES)
5. ACCEPTANCE TESTING PER ENERGY CODE SECTION 10-103.
6. ACCEPTANCE TESTS TO BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF MECHANICAL SYSTEMS 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.

## GENERAL NOTES

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 2022 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 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., 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

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DATE: 4/08/2026

AMS®
American Modular Systems
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PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(11) 36'X40' BUILDINGS

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 |
|---|
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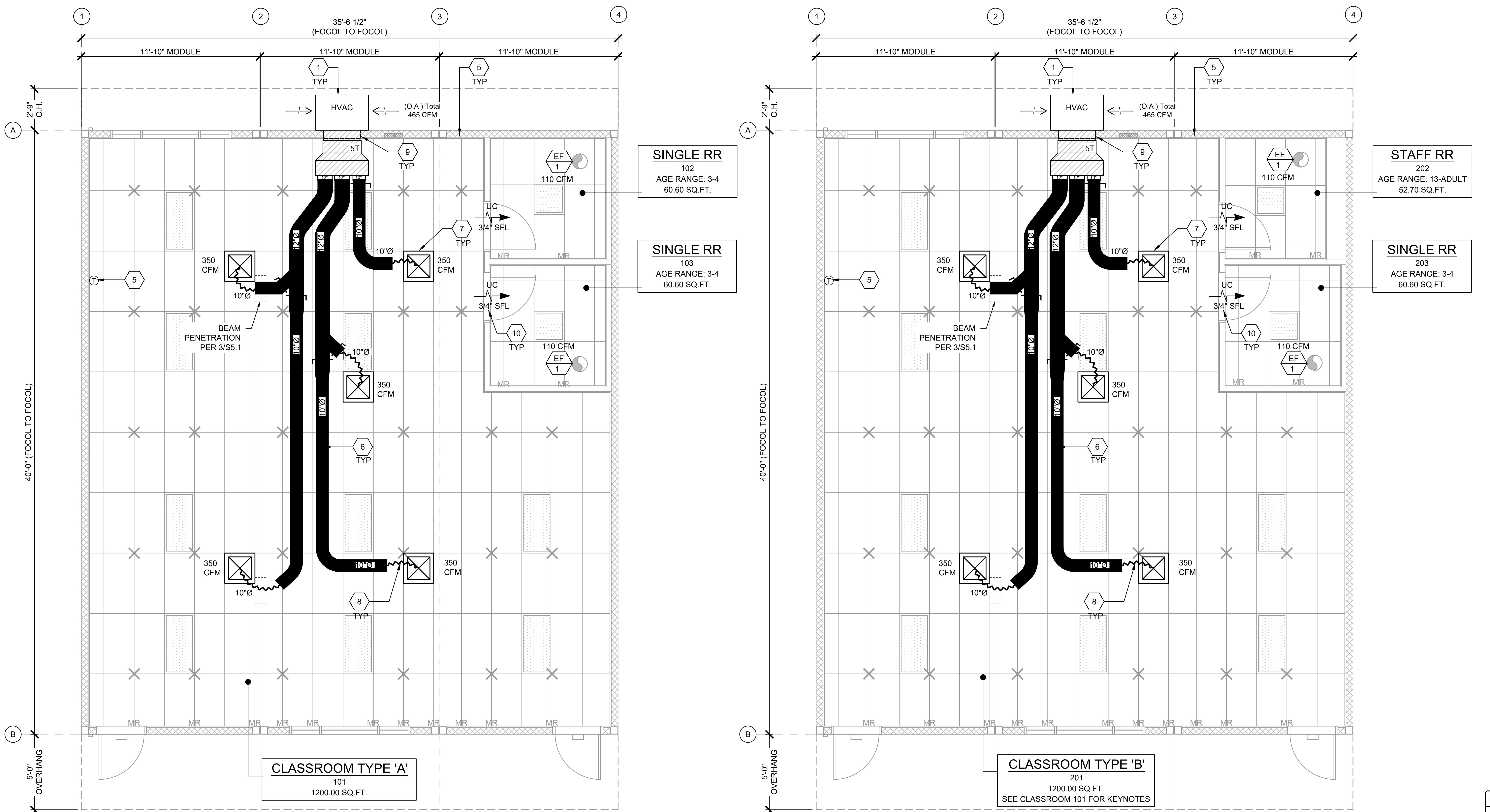
| 2 |
| 3 |
| 4 |

| | |
|---|---|
| DRAWN BY: | AV |
| SCALE: | AS NOTED |
| DATE: | 27/03/2026 |
| PROJECT NO: | 2003-26 |

SHEET TITLE:
REFLECTED CEILING PLAN

SHEET NUMBER:
M1.0



SERIAL NUMBERS:
26-101-001
26-101-002

SERIAL NUMBERS:
26-101-003
26-101-004
26-101-005
26-101-006
26-101-007
26-101-008
26-101-009
26-101-010
26-101-011

| MARK | DESCRIPTION | CFM | WATTS | S.P. | VOLT/PH | |
|---|---|---|---|---|---|---|
| EF<br>1 | EXHAUST FAN | 110 | 47.3 | .10" | 120-1Ø | NUTONE AN110<br>CEILING MOUNTED<br>180W INPUT 10 LBS<br>(OR EQUAL) |

NOTES:

1. VENT EXHAUST FAN THROUGH ROOF.
2. FANS MUST WEIGH LESS THAN 25 LBS.
3. FOR INSTALLATION DETAILS REFER TO 11 & 16/M1.6
4. INTERCONNECT EXHAUST FAN WITH LIGHT SWITCH/OCCUPANCY SENSOR.

## MECHANICAL PLAN

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

1

## SHEET NOTES

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTOMATIC SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES WITHIN THE BUILDING SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF.
3. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE A DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. (PER C.M.C. 608.1 EXCEPTION #2.)
4. LIGHTING FIXTURE MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
5. FOR T-BAR CEILING SPECIFICATIONS, SEE M1.7.
6. PROVIDE CO2 SENSORS AT ALL CLASSROOMS THAT MEET REQUIREMENTS OF CALGREEN 5.506.
7. EACH PUBLIC K-12 SCHOOL CLASSROOM, AS LISTED IN TABLE 120.1-A OF THE CALIFORNIA ENERGY CODE, SHALL BE EQUIPPED WITH A CARBON DIOXIDE MONITOR OR SENSOR THAT MEETS THE FOLLOWING REQUIREMENTS: 1.THE MONITOR OR SENSOR SHALL BE PERMANENTLY AFFIXED IN A TAMPER-PROOF MANNER IN EACH CLASSROOM BETWEEN 3 AND 6 FEET (914 MM AND 1829 MM) ABOVE THE FLOOR AND AT LEAST 5 FEET (1524 MM) AWAY FROM DOORS AND OPERABLE WINDOWS. 2.WHEN THE MONITOR OR SENSOR IS NOT INTEGRAL TO AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS), THE MONITOR OR SENSOR SHALL DISPLAY THE CARBON DIOXIDE READINGS ON THE DEVICE. WHEN THE SENSOR IS INTEGRAL TO AN EMCS, THE CARBON DIOXIDE READINGS SHALL BE AVAILABLE TO AND REGULARLY MONITORED BY FACILITY PERSONNEL. 3.A MONITOR SHALL PROVIDE NOTIFICATION THROUGH A VISUAL INDICATOR ON THE MONITOR WHEN THE CARBON DIOXIDE LEVELS IN THE CLASSROOM HAVE EXCEEDED 1,100 PPM. A SENSOR INTEGRAL TO AN EMCS SHALL PROVIDE NOTIFICATION TO FACILITY PERSONNEL THROUGH A VISUAL AND/OR AUDIBLE INDICATOR WHEN THE CARBON DIOXIDE LEVELS IN THE CLASSROOM HAVE EXCEEDED 1,100 PPM. 4.THE MONITOR OR SENSOR SHALL MEASURE CARBON DIOXIDE LEVELS AT MINIMUM 15-MINUTE INTERVALS AND SHALL MAINTAIN A RECORD OF PREVIOUS CARBON DIOXIDE MEASUREMENTS OF NOT LESS THAN 30 DAYS DURATION. 5.THE MONITOR OR SENSOR USED TO MEASURE CARBON DIOXIDE LEVELS SHALL HAVE THE CAPACITY TO MEASURE CARBON DIOXIDE LEVELS WITH A RANGE OF 400 PPM TO 2000 PPM OR GREATER. 6.THE MONITOR OR SENSOR SHALL BE CERTIFIED BY THE MANUFACTURER TO BE ACCURATE WITHIN 75 PPM AT 1,000 PPM CARBON DIOXIDE CONCENTRATION AND SHALL BE CERTIFIED BY THE MANUFACTURER TO REQUIRE CALIBRATION NO MORE FREQUENTLY THAN ONCE EVERY 5 YEARS.
8. PER ENERGY CODE 120.1(D): THERMOSTAT SHALL BE PROGRAMMED SO THAT THE AIR HANDLER FAN WILL RUN CONTINUALLY DURING OCCUPIED TIMES. PRE-OCCUPANCY PURGE SHALL BE PROGRAMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED. SHOW THERMOSTAT PLACEMENT ON THE PLANS TO BE PLACED AWAY FROM DOORS AND OPERABLE WINDOWS. MECHANICAL PLANS SHOW THERMOSTAT AND SENSOR LOCATIONS, CONTROL DEVICES, AND INCLUDE A CONTROL SEQUENCE OF OPERATIONS. 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 NORMALLY UNOCCUPIED TIMES. THIS CAN BE A MANUAL OVERRIDE FOR UP TO 4 HOURS, OCCUPANCY SENSOR OR A 4 HOUR MANUALLY OPERATED TIMER.

## KEY NOTES

| | |
|---|---|
| 1 | WALL HUNG HVAC UNIT - SEE 10/M1.4. |
| 2 | NOT USED |
| 3 | NOT USED |
| 3A | NOT USED |
| 4 | NOT USED |
| 5 | THERMOSTAT - 48" A.F.F, MAX TO TOP OF BOX |
| 6 | CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING - SEE 1/M1.4. |
| 7 | TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE - SEE 1/ M1.4 & 7/M1.5. |
| 8 | FLEX DUCT - NOMINAL 10" MIN. (MAY VARY) - SEE 8/M1.5. |
| 9 | RETURN AIR AS PART OF UNIT. |
| 10 | DOOR UNDERCUT FROM SUBFLOORING LEVEL |

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

## BUILDING SIZE SCHEDULE

| BUILDING SIZE (FT) | TOTAL # OF 12'-0" WIDE MODULES | TOTAL # OF CENTER MODULES | OVERALL BUILDING WIDTH[1] |
|---|---|---|---|
| ☐ 24'x40' | 2 | 0 | 23'-8½" |
| ☒ 36'x40' | 3 | 1 | 35'-6¾" |
| ☐ 48'x40' | 4 | 2 | 47'-5" |
| ☐ 60'x40' | 5 | 3 | 59'-3¼" |
| ☐ 72'x40' | 6 | 4 | 71'-1½" |
| ☐ 84'x40' | 7 | 5 | 82'-11¾" |
| ☐ 96'x40' | 8 | 6 | 94'-10" |
| ☐ 108'x40' | 9 | 7 | 106'-8¼" |
| ☐ 120'x40' | 10 | 8 | 118'-6½" |

NOTES:

1. TOTAL BUILDING WIDTH INCLUDES ¼" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEET S1.1
2. REFER TO SHEET M1.7 FOR TYPICAL NOTES AND CALL OUTS.

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PRE-CHECKED SET NAME
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(11) 36'X40' BUILDINGS

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

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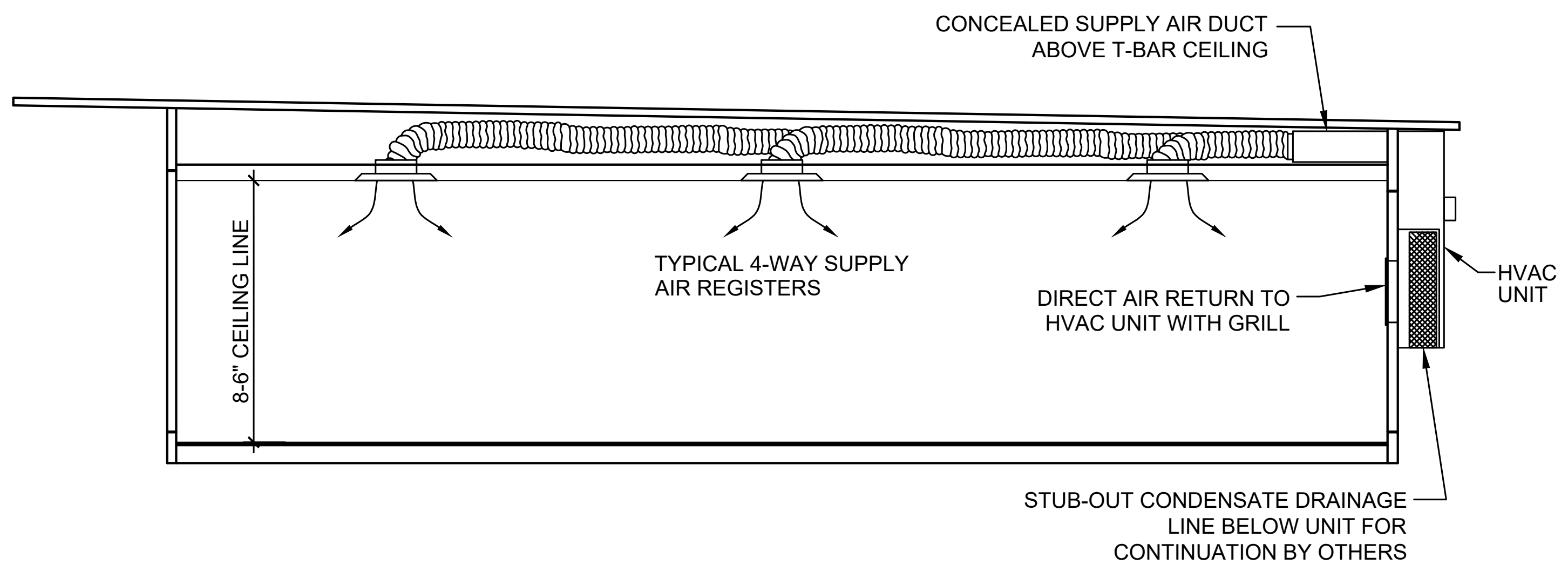
| DRAWN BY: | AV |
| SCALE: | AS NOTED |
| DATE: | 27/03/2026 |
| PROJECT NO: | 2003-26 |

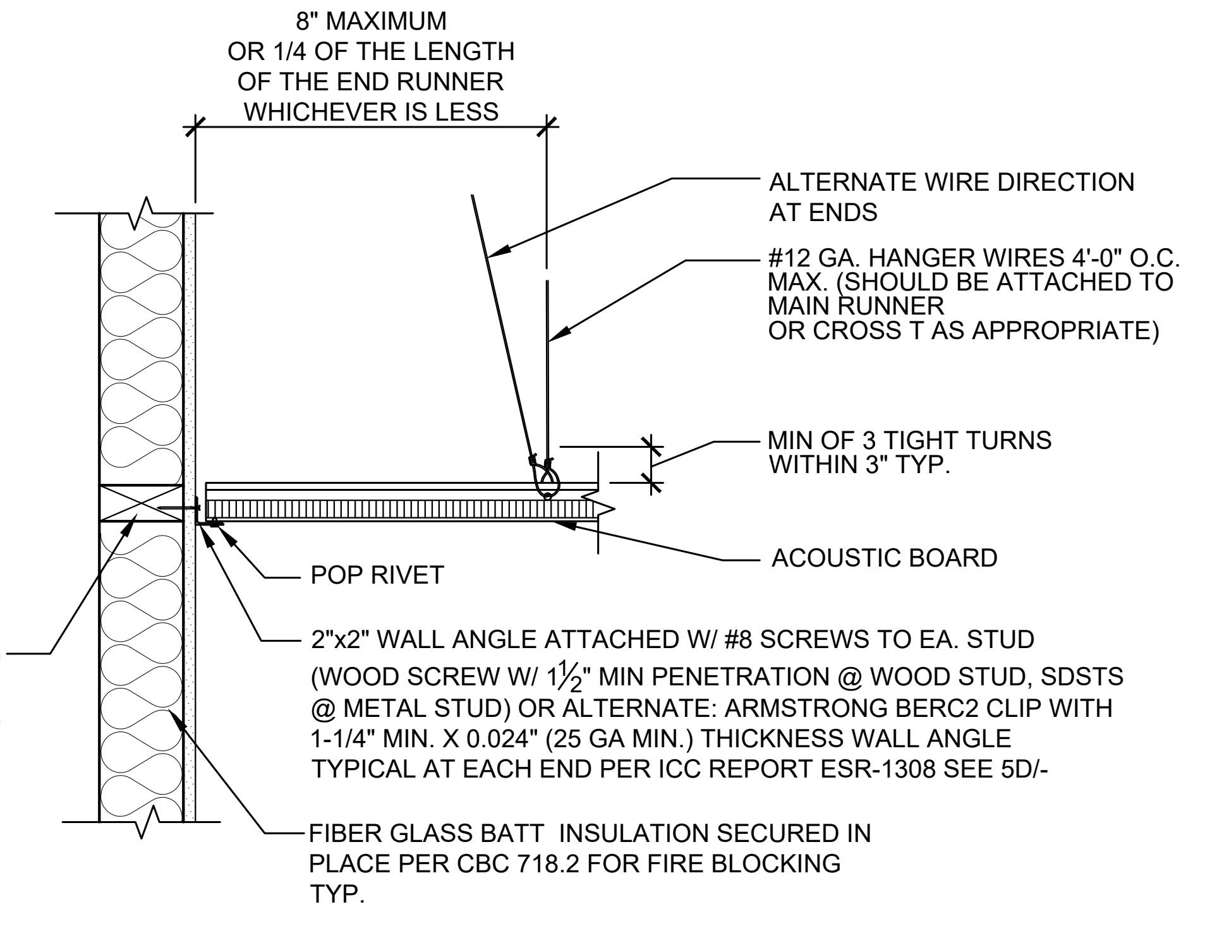
SHEET TITLE:
MECHANICAL PLAN
OPTIONS

SHEET NUMBER:
M1.1

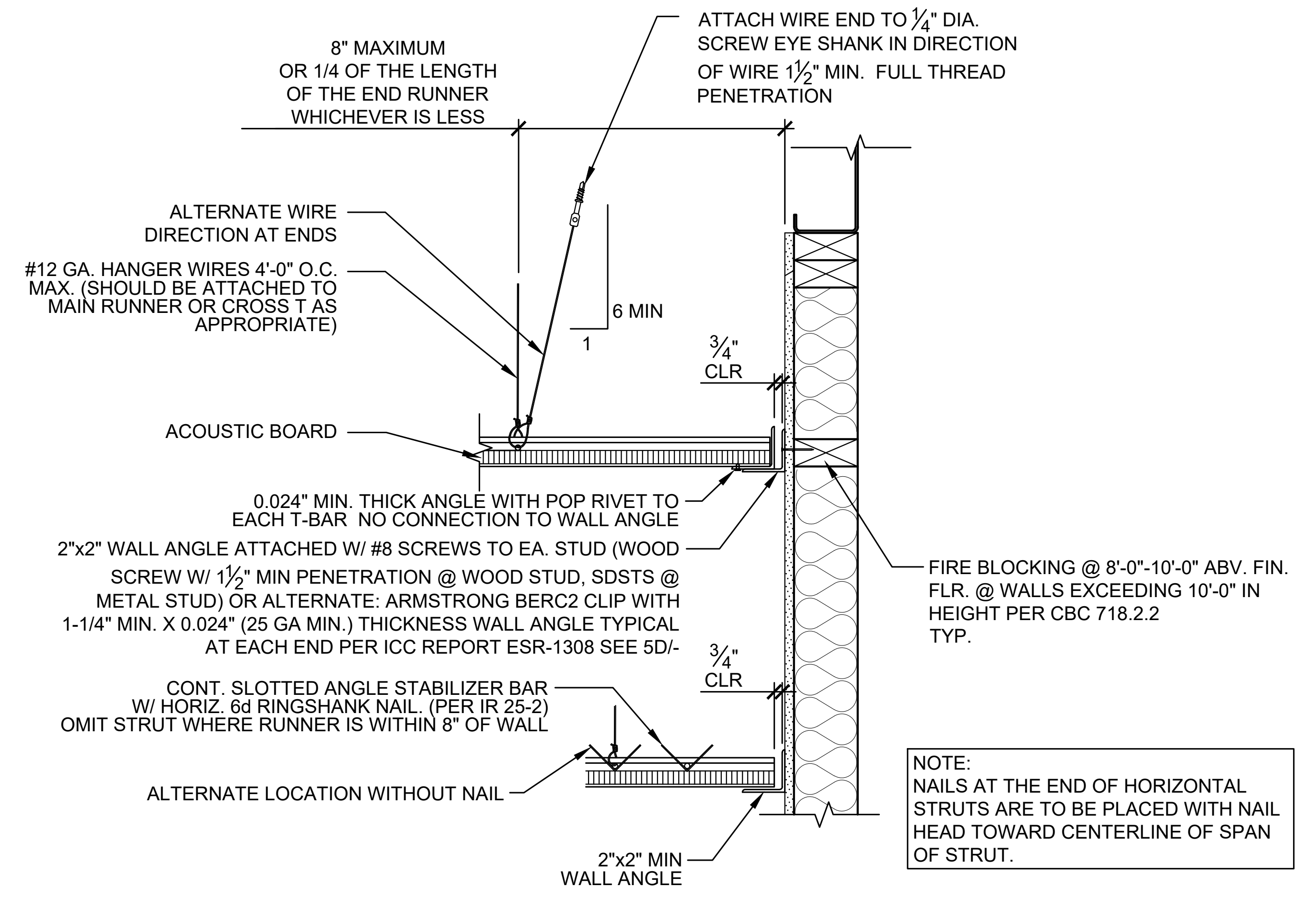

CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING
TYPICAL 4-WAY SUPPLY AIR REGISTERS
8'-6" CEILING LINE
DIRECT AIR RETURN TO HVAC UNIT WITH GRILL
HVAC UNIT
STUB-OUT CONDENSATE DRAINAGE LINE BELOW UNIT FOR CONTINUATION BY OTHERS

### TYPICAL MECHANICAL SECTION

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

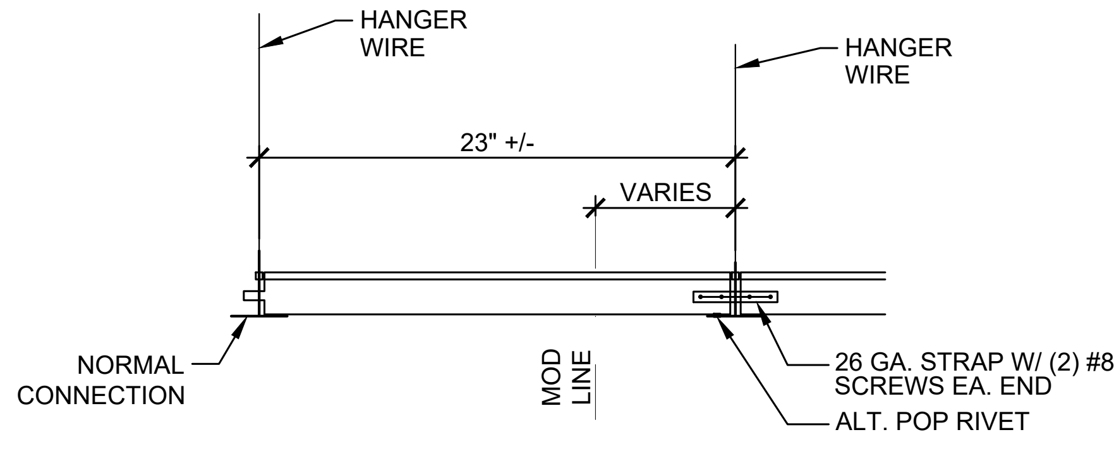

8" MAXIMUM OR 1/4 OF THE LENGTH OF THE END RUNNER WHICHEVER IS LESS
ALTERNATE WIRE DIRECTION AT ENDS
#12 GA. HANGER WIRES 4'-0" O.C. MAX. (SHOULD BE ATTACHED TO MAIN RUNNER OR CROSS T AS APPROPRIATE)
MIN OF 3 TIGHT TURNS WITHIN 3" TYP.
ACOUSTIC BOARD
POP RIVET
FIRE BLOCKING REQUIRED PER CBC 718.2.2, TYP.
2"x2" WALL ANGLE ATTACHED W/ #8 SCREWS TO EA. STUD (WOOD SCREW W/ 1½" MIN PENETRATION @ WOOD STUD, SDSTS @ METAL STUD) OR ALTERNATE: ARMSTRONG BERC2 CLIP WITH 1-1/4" MIN. X 0.024" (25 GA MIN.) THICKNESS WALL ANGLE TYPICAL AT EACH END PER ICC REPORT ESR-1308 SEE 5D/-
FIBER GLASS BATT INSULATION SECURED IN PLACE PER CBC 718.2 FOR FIRE BLOCKING TYP.

Ⓐ FIXED END

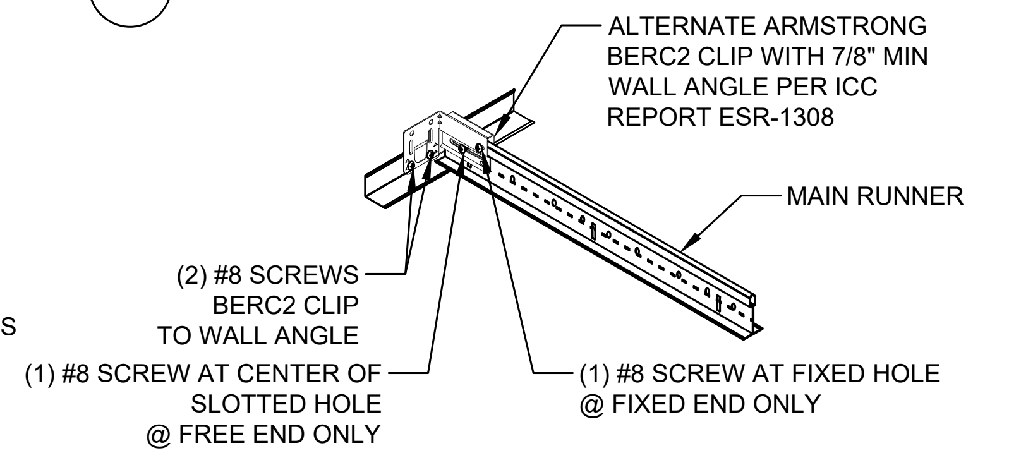

8" MAXIMUM OR 1/4 OF THE LENGTH OF THE END RUNNER WHICHEVER IS LESS
ATTACH WIRE END TO ¼" DIA. SCREW EYE SHANK IN DIRECTION OF WIRE 1½" MIN. FULL THREAD PENETRATION
ALTERNATE WIRE DIRECTION AT ENDS
#12 GA. HANGER WIRES 4'-0" O.C. MAX. (SHOULD BE ATTACHED TO MAIN RUNNER OR CROSS T AS APPROPRIATE)
6 MIN
1
¾" CLR
ACOUSTIC BOARD
0.024" MIN. THICK ANGLE WITH POP RIVET TO EACH T-BAR NO CONNECTION TO WALL ANGLE
2"x2" WALL ANGLE ATTACHED W/ #8 SCREWS TO EA. STUD (WOOD SCREW W/ 1½" MIN PENETRATION @ WOOD STUD, SDSTS @ METAL STUD) OR ALTERNATE: ARMSTRONG BERC2 CLIP WITH 1-1/4" MIN. X 0.024" (25 GA MIN.) THICKNESS WALL ANGLE TYPICAL AT EACH END 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.
¾" CLR
CONT. SLOTTED ANGLE STABILIZER BAR W/ HORIZ. 6d RINGSHANK NAIL. (PER IR 25-2) OMIT STRUT WHERE RUNNER IS WITHIN 8" OF WALL
ALTERNATE LOCATION WITHOUT NAIL
2"x2" MIN WALL ANGLE

NOTE:
NAILS AT THE END OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTERLINE OF SPAN OF STRUT.

Ⓑ FREE END



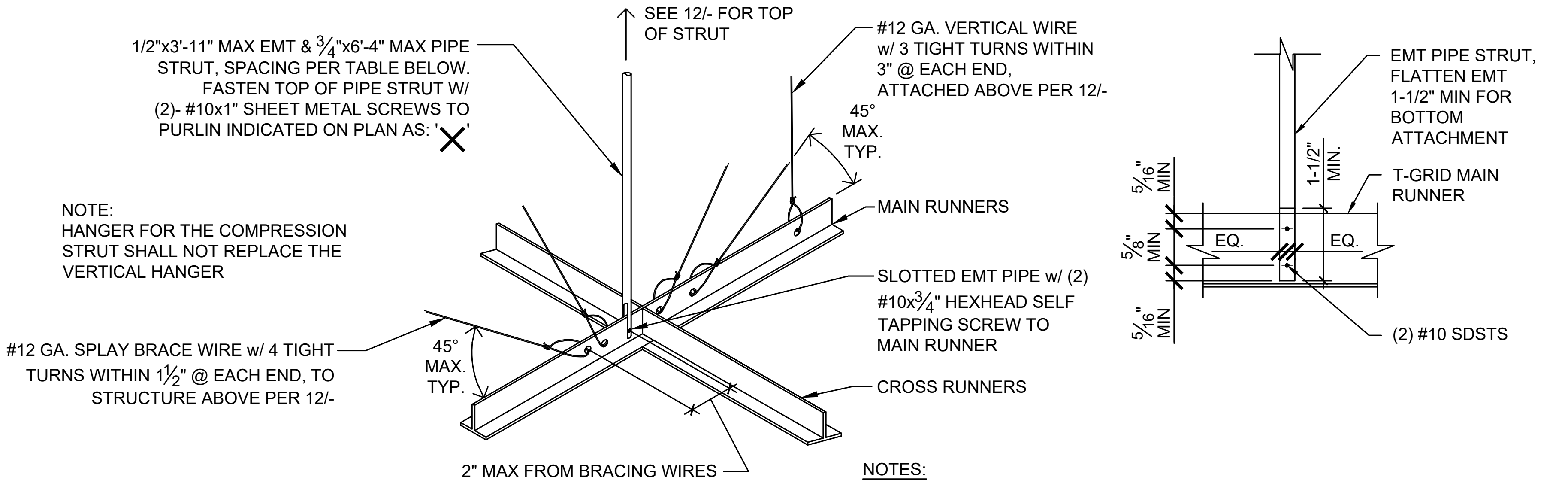
Ⓒ RUNNER SPLICE AND CEILING CONNECTION @ MODULE LINE


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

### SUSPENDED CEILING ATTACHMENT DETAILS

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


1/2"x3'-11" MAX EMT & ¾"x6'-4" MAX PIPE STRUT, 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 3" @ EACH END, ATTACHED ABOVE PER 12/-
45° MAX. TYP.
MAIN RUNNERS
SLOTTED EMT PIPE w/ (2) #10x¾" HEXHEAD SELF TAPPING SCREW TO MAIN RUNNER
CROSS RUNNERS
#12 GA. SPLAY BRACE WIRE w/ 4 TIGHT TURNS WITHIN 1½" @ EACH END, TO STRUCTURE ABOVE PER 12/-
45° MAX. TYP.
2" MAX FROM BRACING WIRES TO COMPRESSION STRUT & CROSS RUNNER, TYP.
EMT PIPE STRUT, FLATTEN EMT 1-1/2" MIN FOR BOTTOM ATTACHMENT
T-GRID MAIN RUNNER
5/16" MIN
5/8" MIN
5/16" MIN
1-1/2" MIN.
EQ.
EQ.
(2) #10 SDSTS

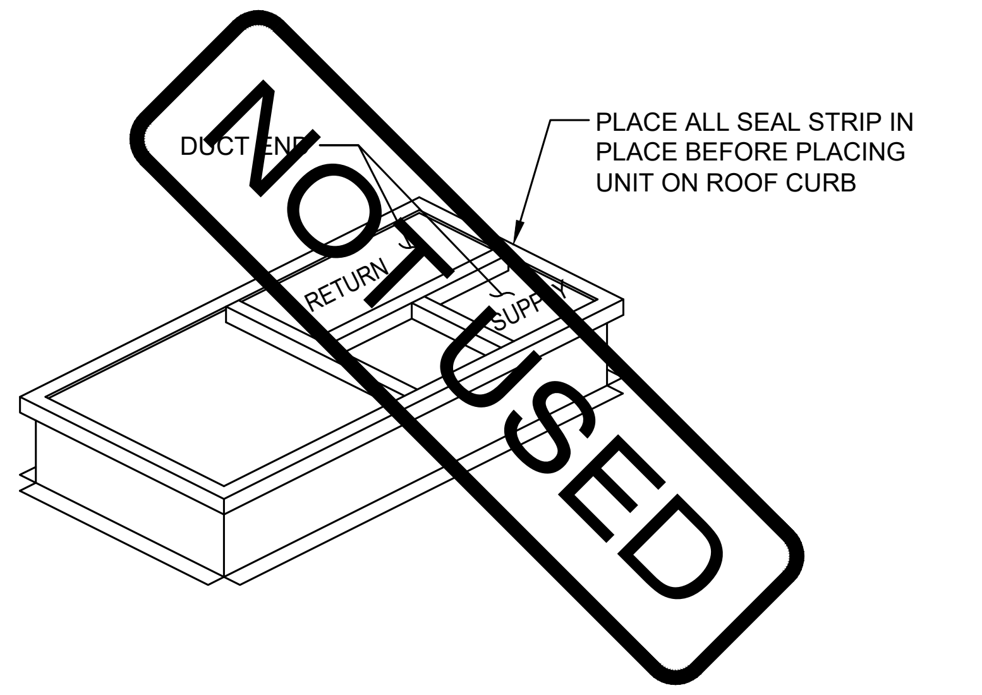
NOTE:
HANGER FOR THE COMPRESSION STRUT SHALL NOT REPLACE THE VERTICAL HANGER

| 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.

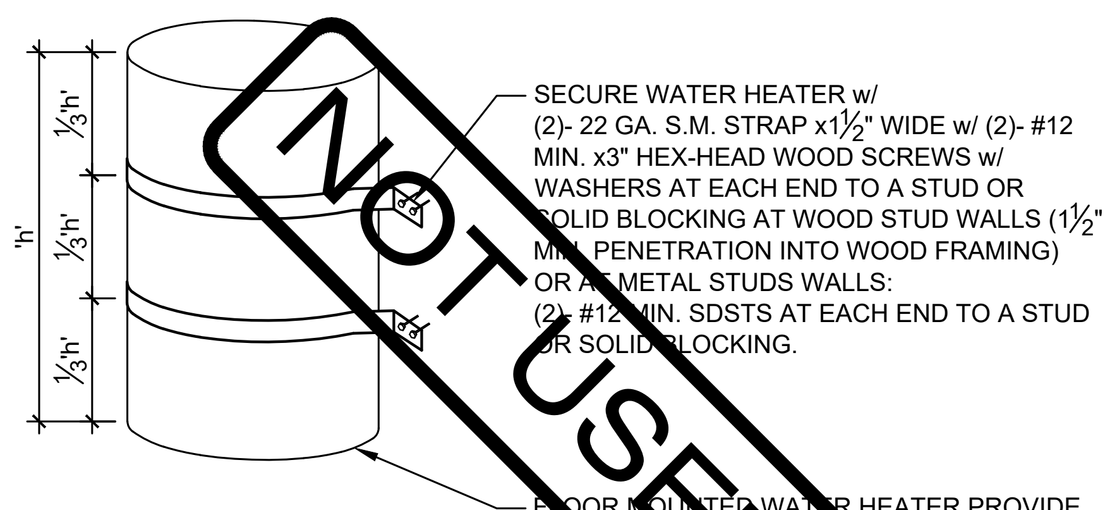
### STRUT/SPLAY WIRE ASSEMBLY DETAIL

NOT TO SCALE 2


DUCT END
RETURN
SUPPLY
PLACE ALL SEAL STRIP IN PLACE BEFORE PLACING UNIT ON ROOF CURB
NOT USED

### ROOF CURB SEAL DETAIL

SCALE : N.T.S. 4



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. SDSTS AT EACH END TO A STUD OR SOLID BLOCKING.

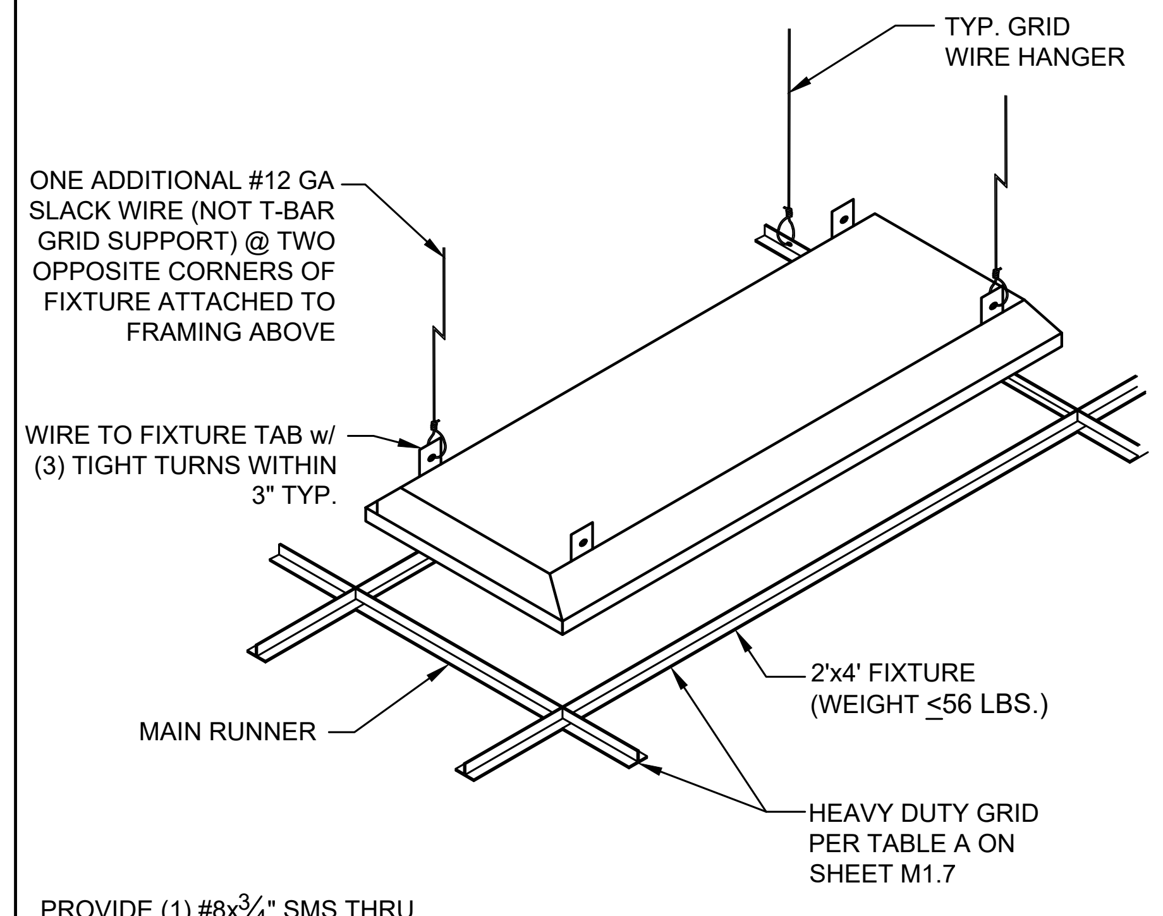
MAX WATER HEATER WEIGHT = 400 LBS

FLOOR MOUNTED WATER HEATER PROVIDE BLOCKING UNDER WATER HEATER PER DETAIL 5/S3.0 @ PLYWOOD FLOORS. NO ADDITIONAL FLOOR SUPPORT REQUIRED @ CONCRETE FLOORS

NOTE: PRESSURE RELIEF VALVE SHALL BE PLUMBED TO OUTSIDE/EXTERIOR OF BUILDING.

### WATER HEATER STRAP DETAIL

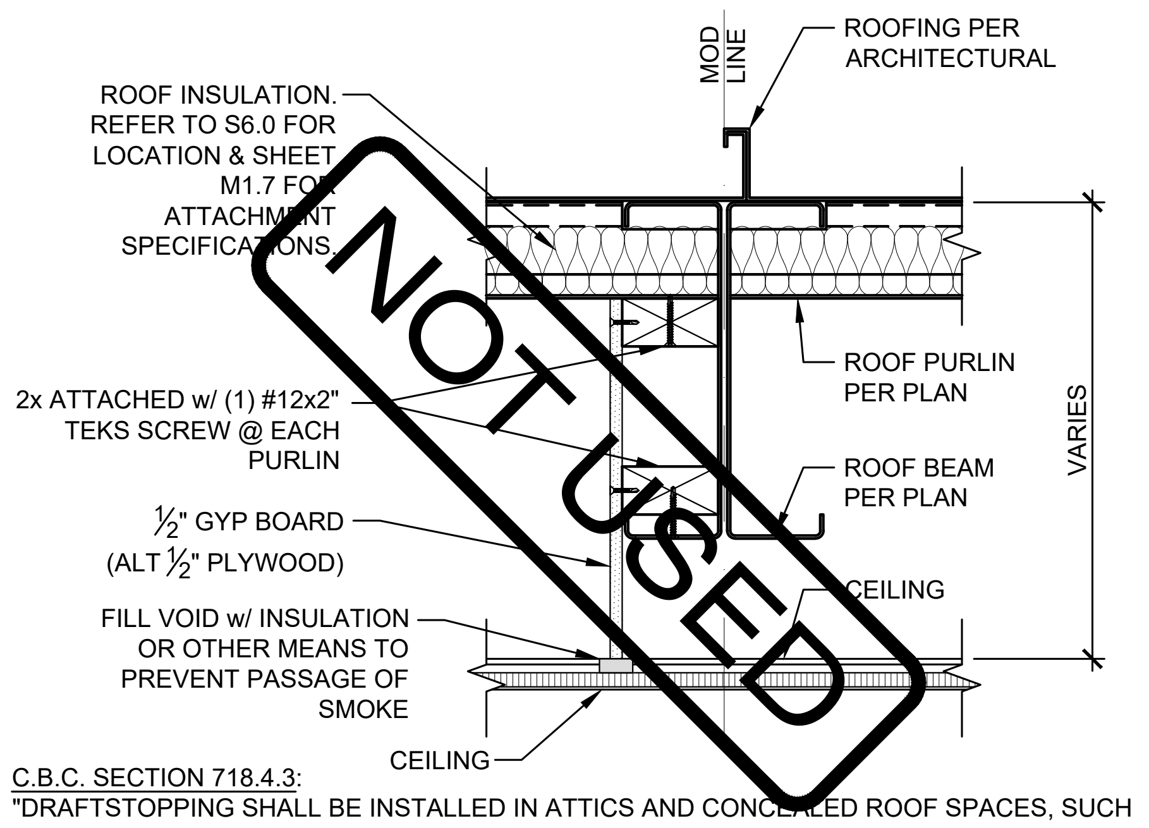
NOT TO SCALE 6


TYP. GRID WIRE HANGER
ONE ADDITIONAL #12 GA SLACK WIRE (NOT T-BAR GRID SUPPORT) @ TWO OPPOSITE CORNERS OF FIXTURE ATTACHED TO FRAMING ABOVE
WIRE TO FIXTURE TAB w/ (3) TIGHT TURNS WITHIN 3" TYP.
2'x4' FIXTURE (WEIGHT ≤56 LBS.)
MAIN RUNNER
HEAVY DUTY GRID PER TABLE A ON SHEET M1.7

PROVIDE (1) #8x¾" SMS THRU GRID TO LIGHT FIXTURE @ 2 MIN. CORNERS

### LIGHT FIXTURE ATTACHMENT

NOT TO SCALE 7

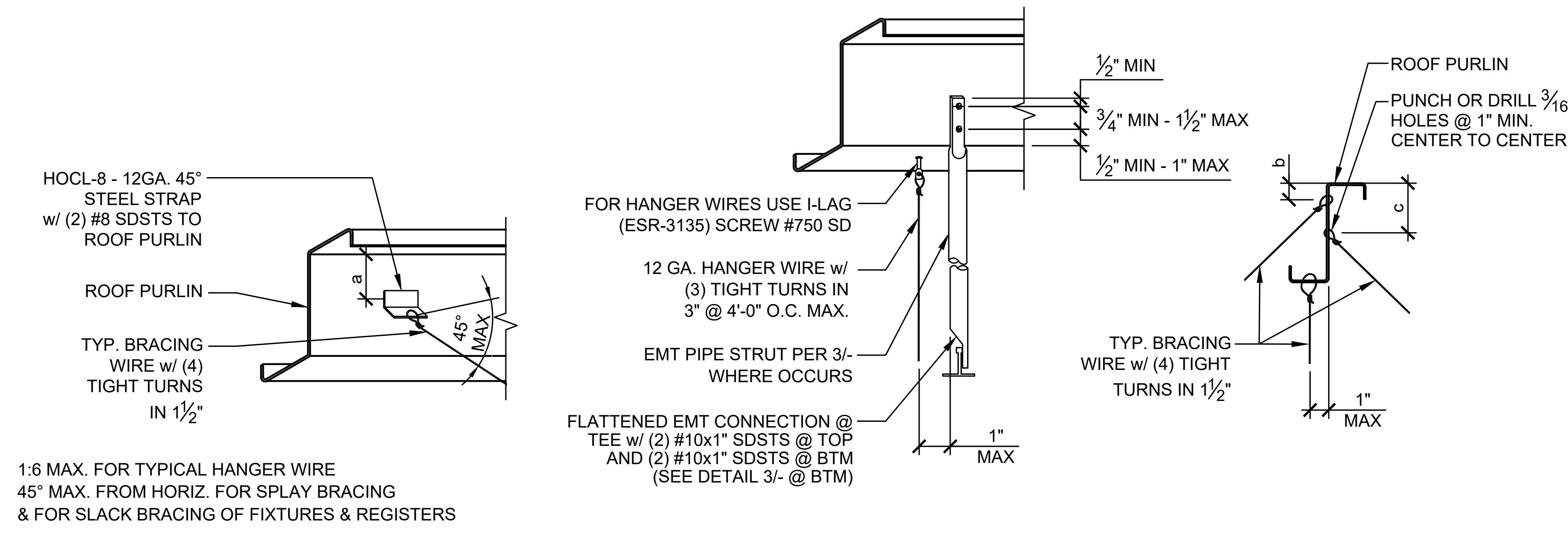

MOD LINE
ROOFING PER ARCHITECTURAL
ROOF INSULATION. REFER TO S6.0 FOR LOCATION & SHEET M1.7 FOR ATTACHMENT SPECIFICATIONS.
ROOF PURLIN PER PLAN
2x ATTACHED w/ (1) #12x2" TEKS SCREW @ EACH PURLIN
ROOF BEAM PER PLAN
VARIES
½" GYP BOARD (ALT ½" PLYWOOD)
CEILING
FILL VOID w/ INSULATION OR OTHER MEANS TO PREVENT PASSAGE OF SMOKE
CEILING
NOT USED

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

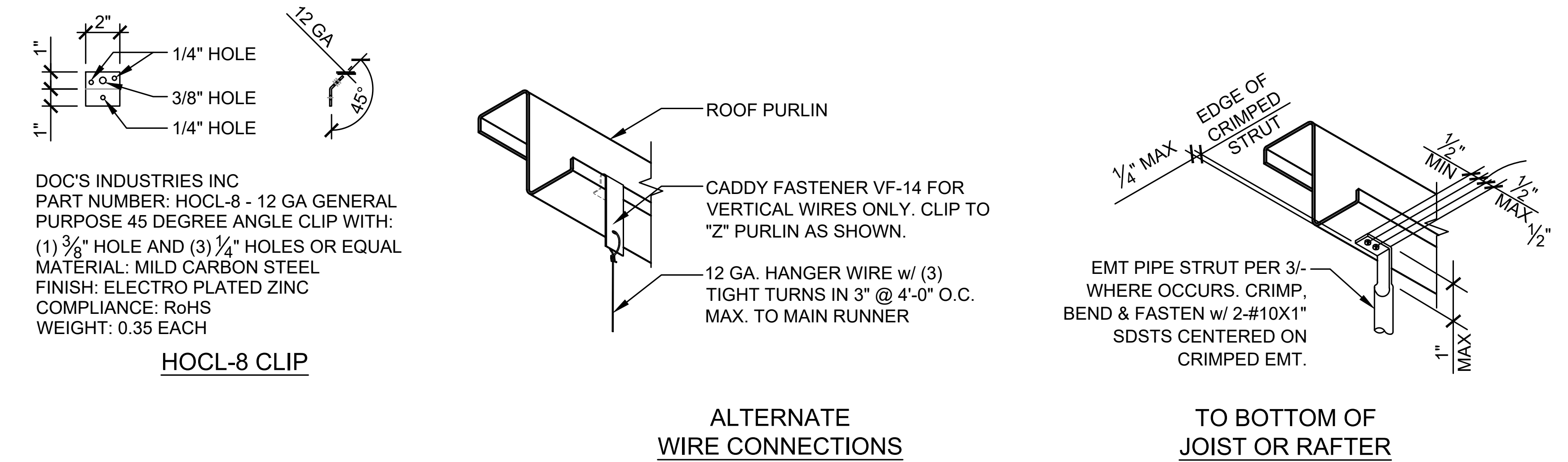

HOCL-8 - 12GA. 45° STEEL STRAP w/ (2) #8 SDSTS TO ROOF PURLIN
ROOF PURLIN
TYP. BRACING WIRE w/ (4) TIGHT TURNS IN 1½"
a
45° MAX
FOR HANGER WIRES USE I-LAG (ESR-3135) SCREW #750 SD
12 GA. HANGER WIRE w/ (3) TIGHT TURNS IN 3" @ 4'-0" O.C. MAX.
EMT PIPE STRUT PER 3/- WHERE OCCURS
FLATTENED EMT CONNECTION @ TEE w/ (2) #10x1" SDSTS @ TOP AND (2) #10x1" SDSTS @ BTM (SEE DETAIL 3/- @ BTM)
½" MIN
¾" MIN - 1½" MAX
½" MIN - 1" MAX
1" MAX
ROOF PURLIN
PUNCH OR DRILL 3/16 HOLES @ 1" MIN. CENTER TO CENTER
b
c
TYP. BRACING WIRE w/ (4) TIGHT TURNS IN 1½"
1" MAX

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

TO BOTTOM OF WEB OF JOIST OR RAFTER

ALTERNATE WIRE CONNECTIONS


2"
1"
1"
1/4" HOLE
3/8" HOLE
1/4" HOLE
12 GA
45°
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
EDGE OF CRIMPED STRUT
¼" MAX
½" MIN
½" MAX
½"
EMT PIPE STRUT PER 3/- WHERE OCCURS. CRIMP, BEND & FASTEN w/ 2-#10X1" SDSTS CENTERED ON CRIMPED EMT.
1" MAX

DOC'S INDUSTRIES INC
PART NUMBER: HOCL-8 - 12 GA GENERAL PURPOSE 45 DEGREE ANGLE CLIP WITH:
(1) ⅜" HOLE AND (3) ¼" HOLES OR EQUAL
MATERIAL: MILD CARBON STEEL
FINISH: ELECTRO PLATED ZINC
COMPLIANCE: RoHS
WEIGHT: 0.35 EACH

HOCL-8 CLIP

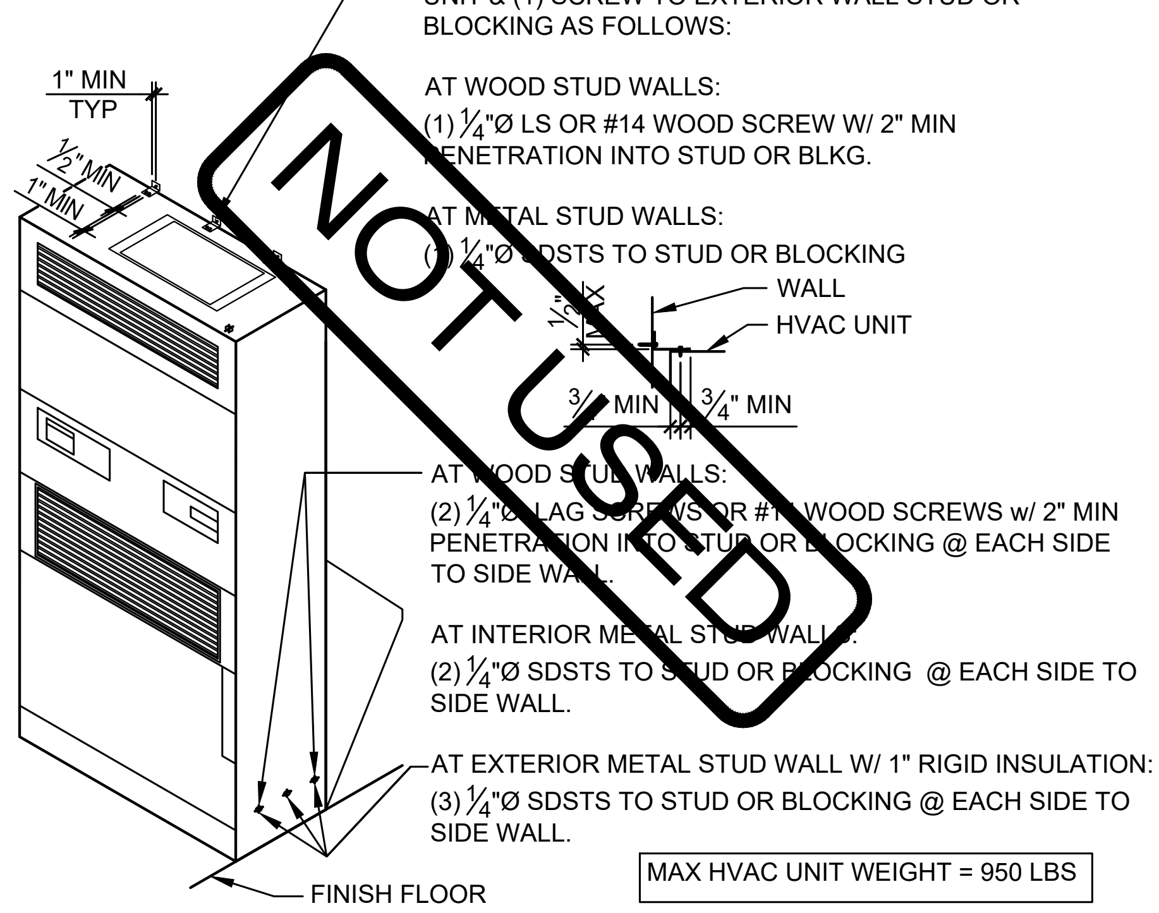
ALTERNATE WIRE CONNECTIONS

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.

### SUSPENDED CEILING TO PURLIN CONNECTION DETAILS

NOT TO SCALE 12



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

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.

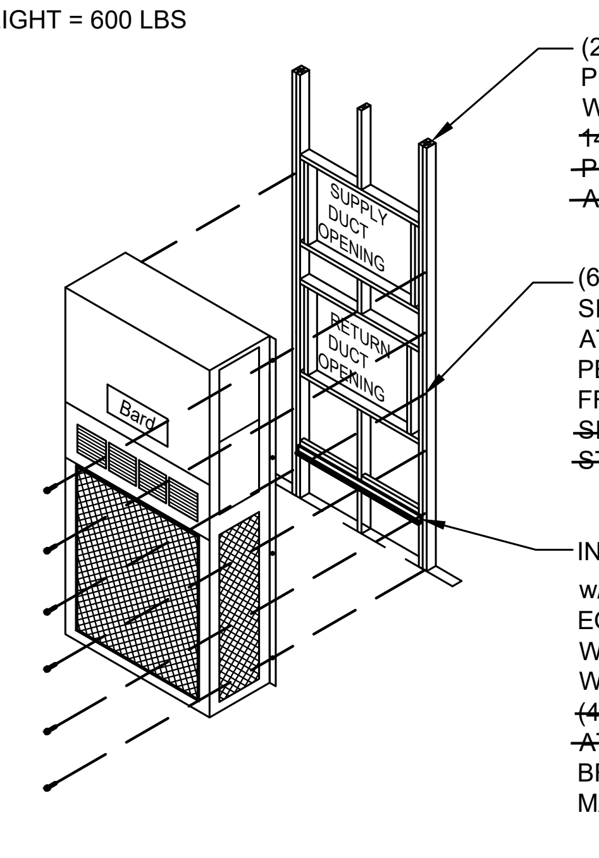
AT EXTERIOR METAL STUD WALL W/ 1" RIGID INSULATION:
(3) ¼"Ø SDSTS TO STUD OR BLOCKING @ EACH SIDE TO SIDE WALL.

MAX HVAC UNIT WEIGHT = 950 LBS

### INTERIOR HVAC ANCHORAGE

NOT TO SCALE 9

MAX HVAC UNIT WEIGHT = 600 LBS



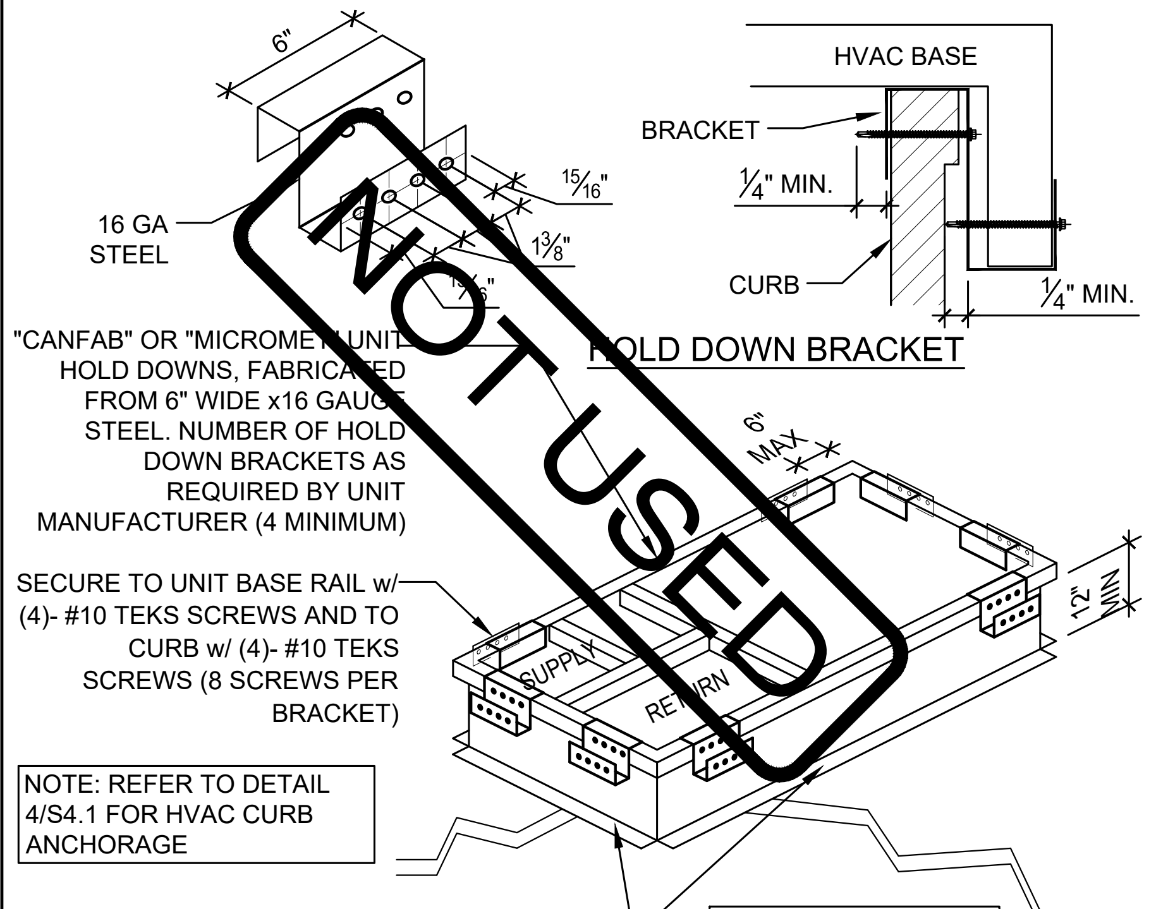
(2) 2x FLAT STUDS PER 3/S8.1 AT WOOD STUD WALLS ~~14GA CHANNEL PER 18&19/S9.1 AT METAL STUD WALLS~~

(6) ¼"Ø MIN. x4" LAG SCREWS PER SIDE, EQUALLY SPACED AT WOOD STUD WALLS (2-1/2" MIN. PENETRATION INTO WOOD FRAMING.) ~~(6) #12 MIN. STSDS PER SIDE EQUALLY SPACED AT METAL STUD WALLS.~~

INSTALLATION BRACKET w/ (4) ¼"Ø MIN. x4" LAG SCREWS EQUALLY SPACED AT WOOD STUD WALLS (2-1/2" MIN. PENETRATION INTO WOOD FRAMING) ~~OR (4) #12 MIN. STSDS EQUALLY SPACED AT METAL STUD WALLS INSTALLATION~~ BRACKET SUPPLIED BY MANUFACTURER

### WALL MOUNT HVAC ANCHORAGE

NOT TO SCALE 10



"CANFAB" OR "MICROMETL UNIT" HOLD DOWNS, FABRICATED FROM 6" WIDE x16 GAUGE STEEL. NUMBER OF HOLD DOWN BRACKETS AS REQUIRED BY UNIT MANUFACTURER (4 MINIMUM)

SECURE TO UNIT BASE RAIL w/ (4)- #10 TEKS SCREWS AND TO CURB w/ (4)- #10 TEKS SCREWS (8 SCREWS PER BRACKET)

NOTE: REFER TO DETAIL 4/S4.1 FOR HVAC CURB ANCHORAGE

OVERLAP ROOFING ONTO CURB AND SEAL

MAX HVAC UNIT WEIGHT = 800 LBS

### OPTIONAL HVAC ROOF CURB

NOT TO SCALE 11

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ 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.

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△2
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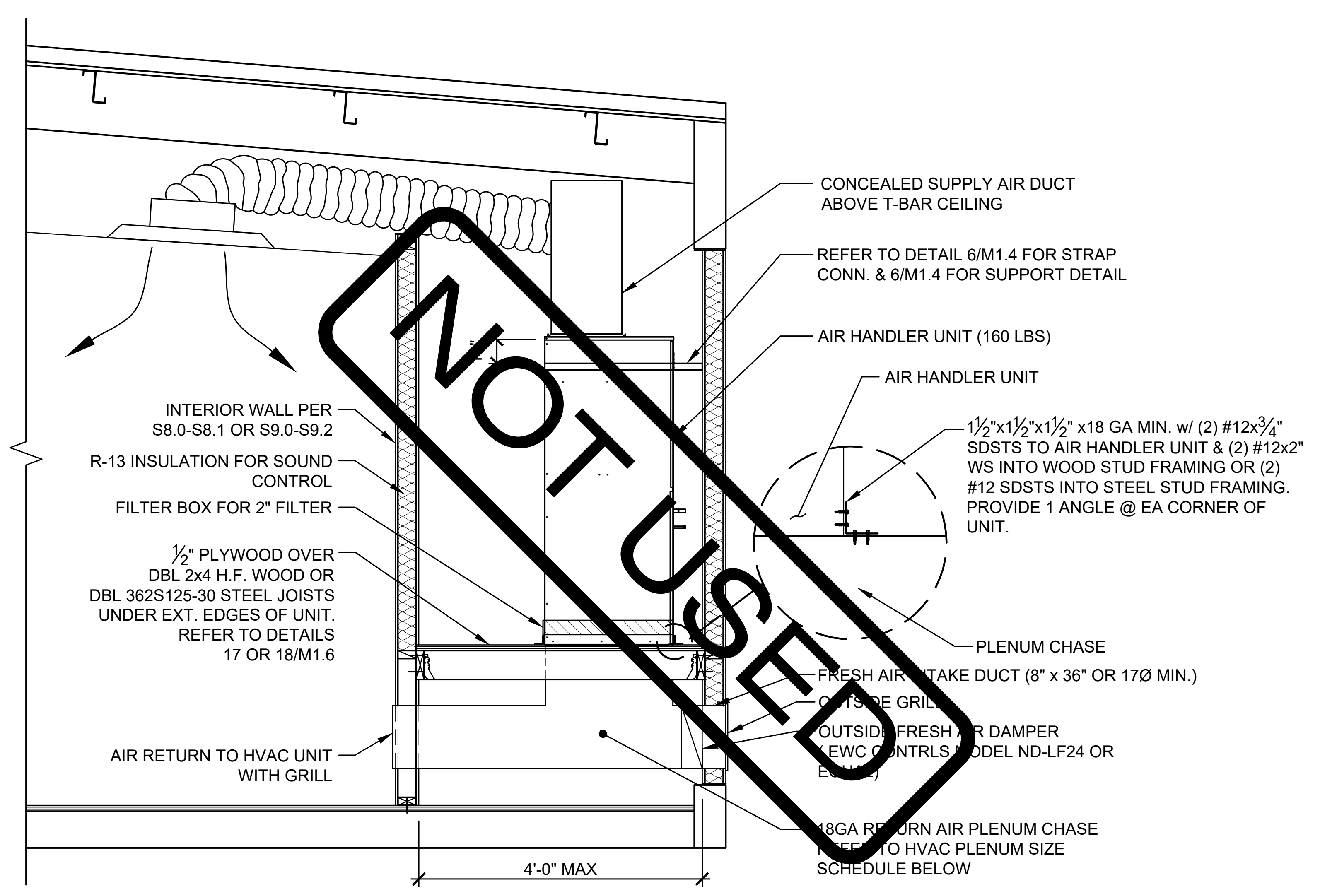
△4

| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:
MECHANICAL
AND CEILING
DETAILS

SHEET NUMBER:
M1.4

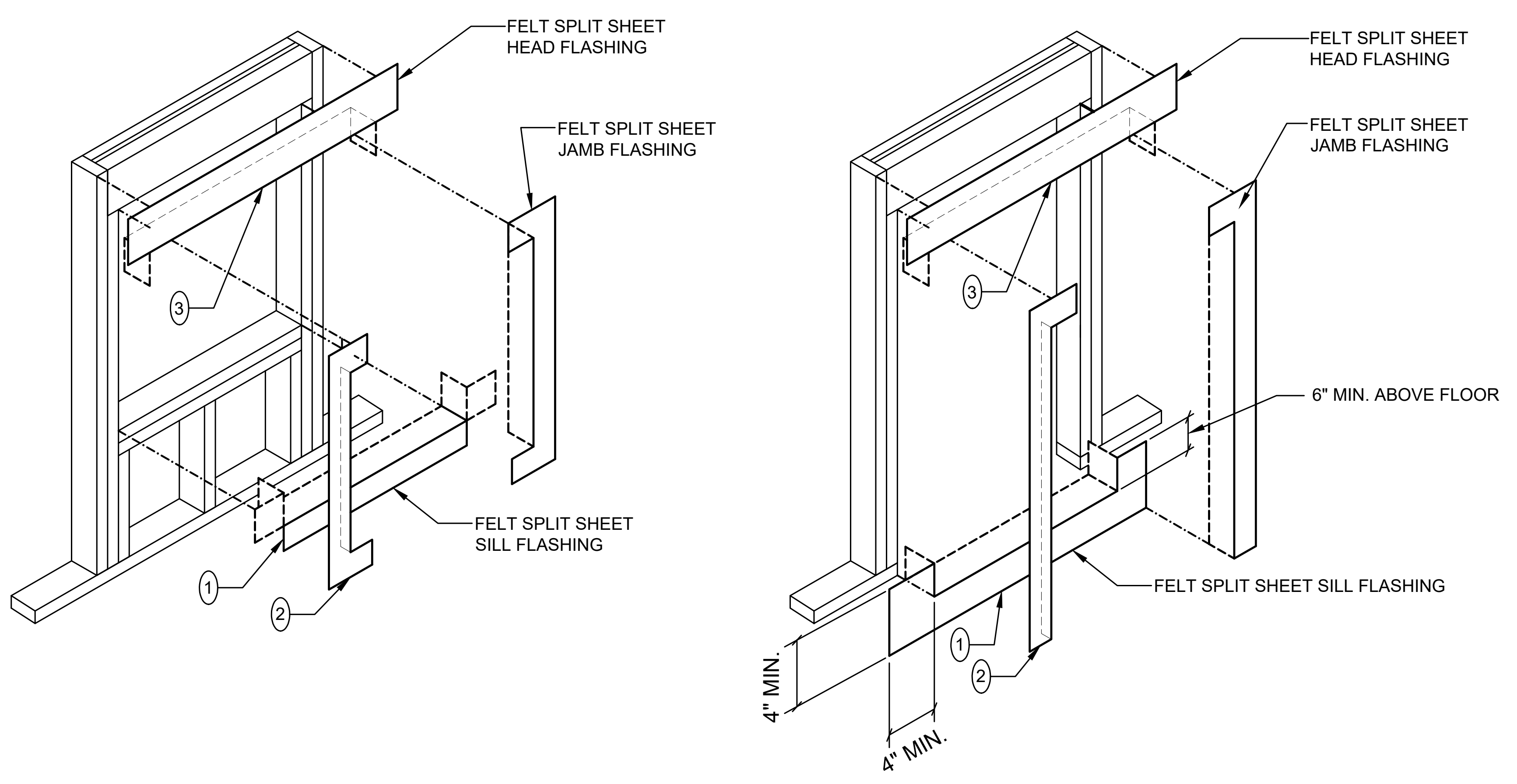

NOT USED
CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING
REFER TO DETAIL 6/M1.4 FOR STRAP CONN. & 6/M1.4 FOR SUPPORT DETAIL
AIR HANDLER UNIT (160 LBS)
AIR HANDLER UNIT
1½"x1½"x1½" x18 GA MIN. w/ (2) #12x¾" SDSTS TO AIR HANDLER UNIT & (2) #12x2" WS INTO WOOD STUD FRAMING OR (2) #12 SDSTS INTO STEEL STUD FRAMING. PROVIDE 1 ANGLE @ EA CORNER OF UNIT.
PLENUM CHASE
FRESH AIR INTAKE DUCT (8" x 36" OR 17Ø MIN.)
OUTSIDE GRILL
OUTSIDE FRESH AIR DAMPER (EWC CONTRLS MODEL ND-LF24 OR EQUAL)
18GA RETURN AIR PLENUM CHASE REFER TO HVAC PLENUM SIZE SCHEDULE BELOW
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
AIR RETURN TO HVAC UNIT WITH GRILL
4'-0" MAX

| 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
1
2
3
FELT SPLIT SHEET HEAD FLASHING
FELT SPLIT SHEET JAMB FLASHING
6" MIN. ABOVE FLOOR
FELT SPLIT SHEET SILL FLASHING
4" MIN.
4" MIN.
1
2
3

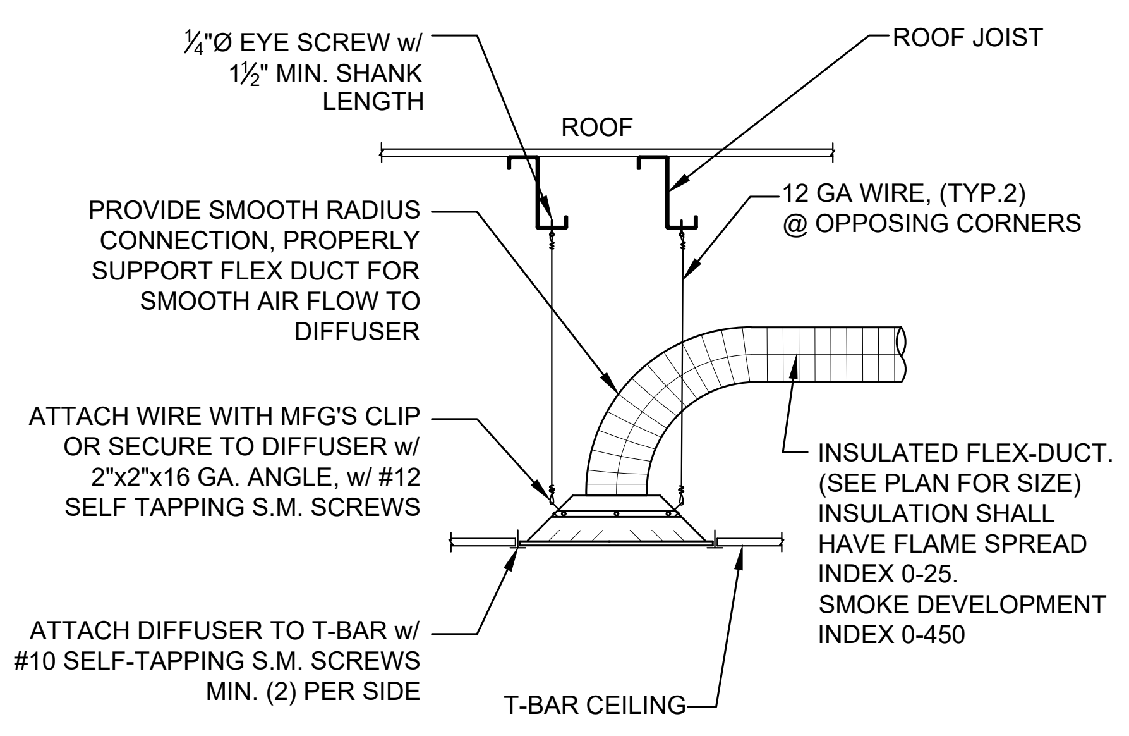
WINDOW CONDITION

DOOR CONDITION

# = SEQUENCE OF ORDER

## FLASHING @ WALL OPENINGS

NOT TO SCALE 2

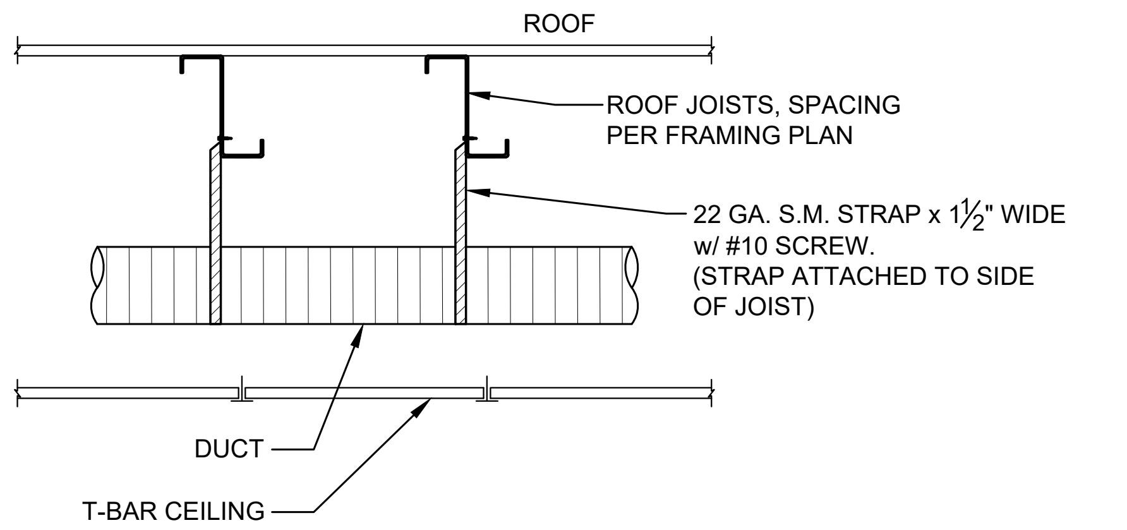

¼"Ø EYE SCREW w/ 1½" MIN. SHANK LENGTH
ROOF
ROOF JOIST
12 GA WIRE, (TYP.2) @ OPPOSING CORNERS
PROVIDE SMOOTH RADIUS CONNECTION, PROPERLY SUPPORT FLEX DUCT FOR SMOOTH AIR FLOW TO DIFFUSER
ATTACH WIRE WITH MFG'S CLIP OR SECURE TO DIFFUSER w/ 2"x2"x16 GA. ANGLE, w/ #12 SELF TAPPING S.M. SCREWS
INSULATED 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

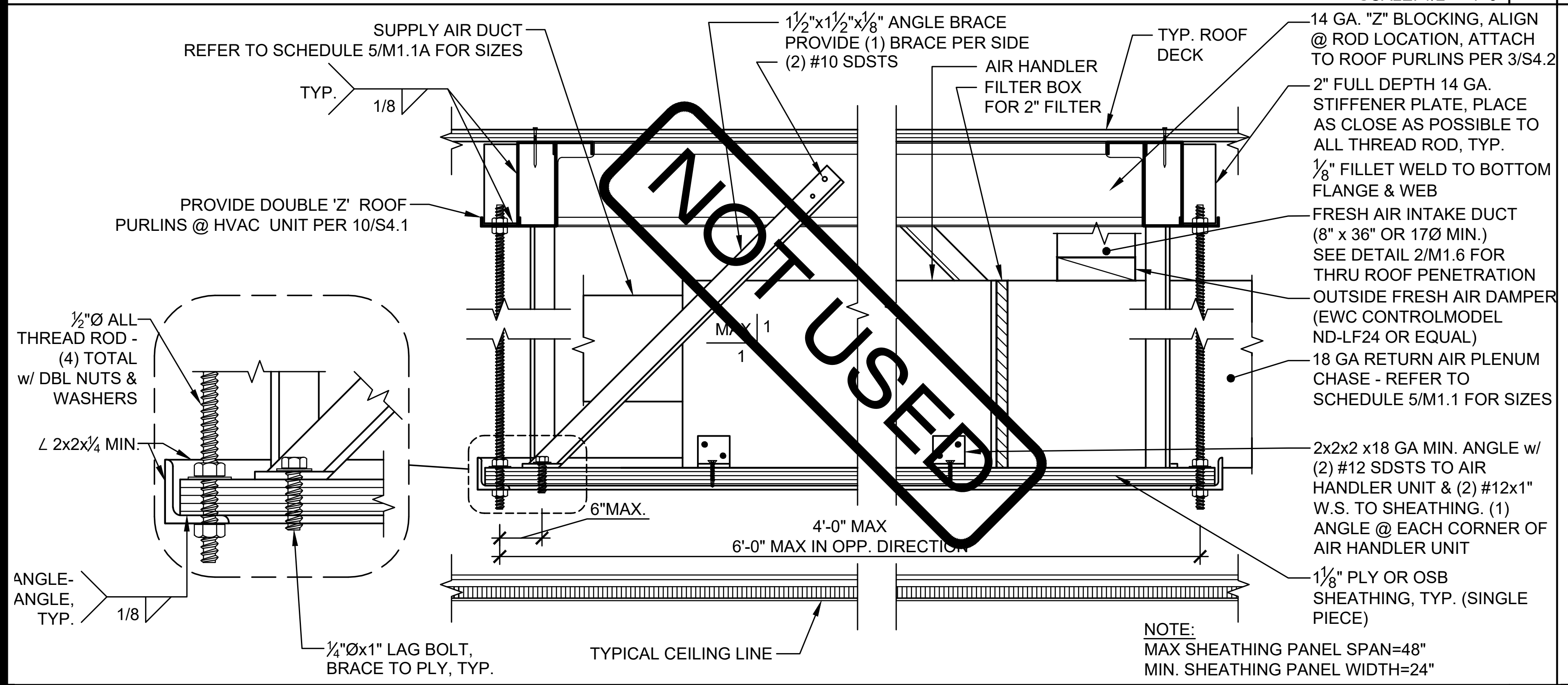
NOTES:

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

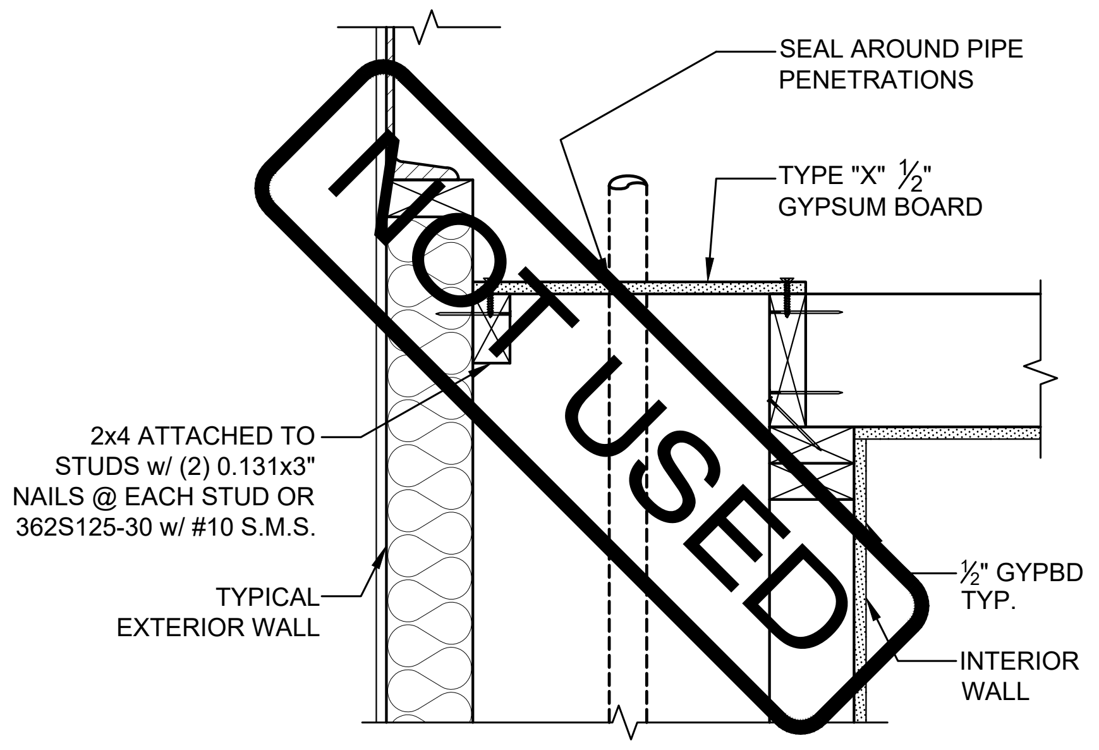
NOT TO SCALE 8


NOT USED
SUPPLY AIR DUCT REFER TO SCHEDULE 5/M1.1A FOR SIZES
TYP.
1/8
1½"x1½"x⅛" ANGLE BRACE PROVIDE (1) BRACE PER SIDE
(2) #10 SDSTS
AIR HANDLER
FILTER BOX FOR 2" FILTER
TYP. ROOF DECK
14 GA. "Z" BLOCKING, ALIGN @ ROD LOCATION, ATTACH TO ROOF PURLINS PER 3/S4.2
2" FULL DEPTH 14 GA. STIFFENER PLATE, PLACE AS CLOSE AS POSSIBLE TO ALL THREAD ROD, TYP.
⅛" FILLET WELD TO BOTTOM FLANGE & WEB
FRESH AIR INTAKE DUCT (8" x 36" OR 17Ø MIN.) SEE DETAIL 2/M1.6 FOR THRU ROOF PENETRATION
OUTSIDE FRESH AIR DAMPER (EWC CONTROLMODEL ND-LF24 OR EQUAL)
18 GA RETURN AIR PLENUM CHASE - REFER TO SCHEDULE 5/M1.1 FOR SIZES
2x2x2 x18 GA MIN. ANGLE w/ (2) #12 SDSTS TO AIR HANDLER UNIT & (2) #12x1" W.S. TO SHEATHING. (1) ANGLE @ EACH CORNER OF AIR HANDLER UNIT
1⅛" PLY OR OSB SHEATHING, TYP. (SINGLE PIECE)
PROVIDE DOUBLE 'Z' ROOF PURLINS @ HVAC UNIT PER 10/S4.1
½"Ø ALL THREAD ROD - (4) TOTAL w/ DBL NUTS & WASHERS
∠ 2x2x¼ MIN.
ANGLE-ANGLE, TYP.
1/8
MAX 1
1
6"MAX.
4'-0" MAX
6'-0" MAX IN OPP. DIRECTION
¼"Øx1" LAG BOLT, BRACE TO PLY, TYP.
TYPICAL CEILING LINE

NOTE:
MAX SHEATHING PANEL SPAN=48"
MIN. SHEATHING PANEL WIDTH=24"

## HVAC ATTIC MOUNTED SPLIT SYSTEM

NOT TO SCALE 3

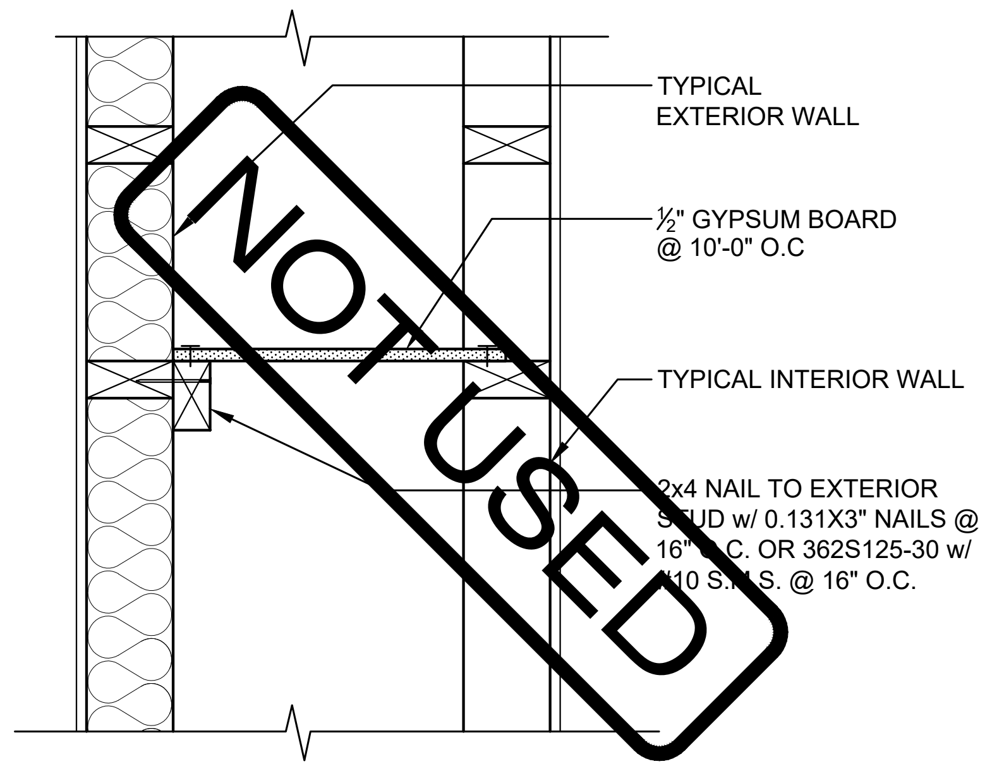

NOT USED
SEAL AROUND PIPE PENETRATIONS
TYPE "X" ½" GYPSUM BOARD
2x4 ATTACHED TO STUDS w/ (2) 0.131x3" NAILS @ EACH STUD OR 362S125-30 w/ #10 S.M.S.
TYPICAL EXTERIOR WALL
½" GYPBD TYP.
INTERIOR WALL

SECTION VIEW

NOTE:
REFER TO DETAILS 8/M1.6 AND 13/M1.6 FOR ADDITIONAL FRAMING DETAILS

## DRAFT STOP @ PLUMBING CHASE

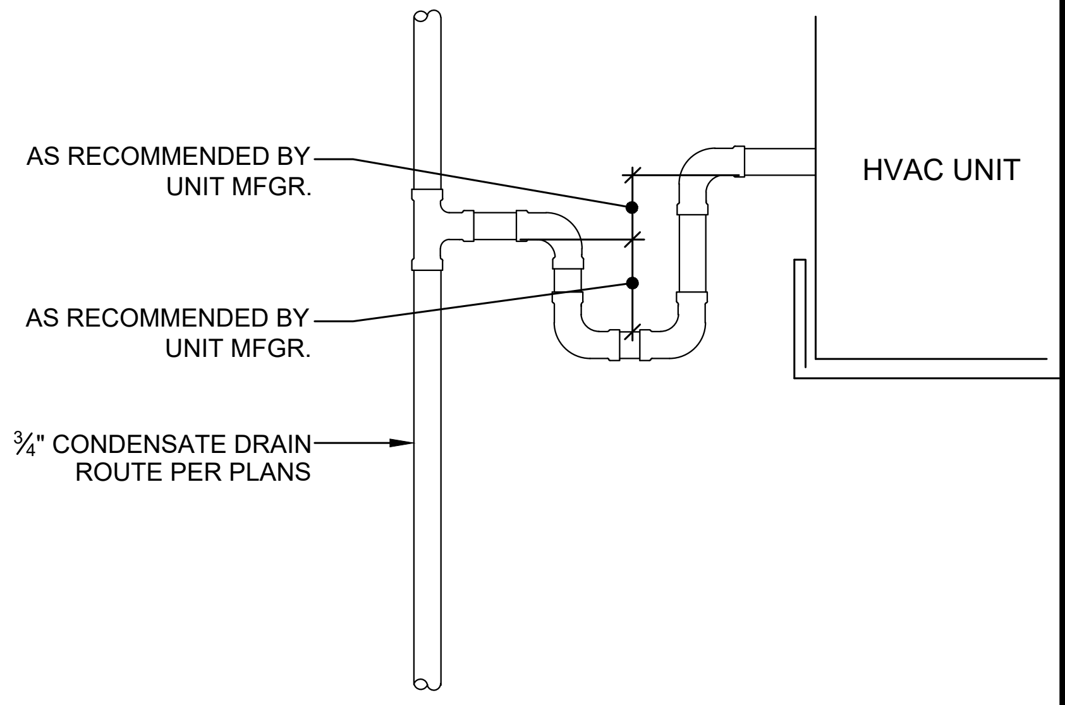
SCALE: 1" = 1'-0" 4


NOT USED
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. OR 362S125-30 w/ #10 S.M.S. @ 16" O.C.

PLAN VIEW

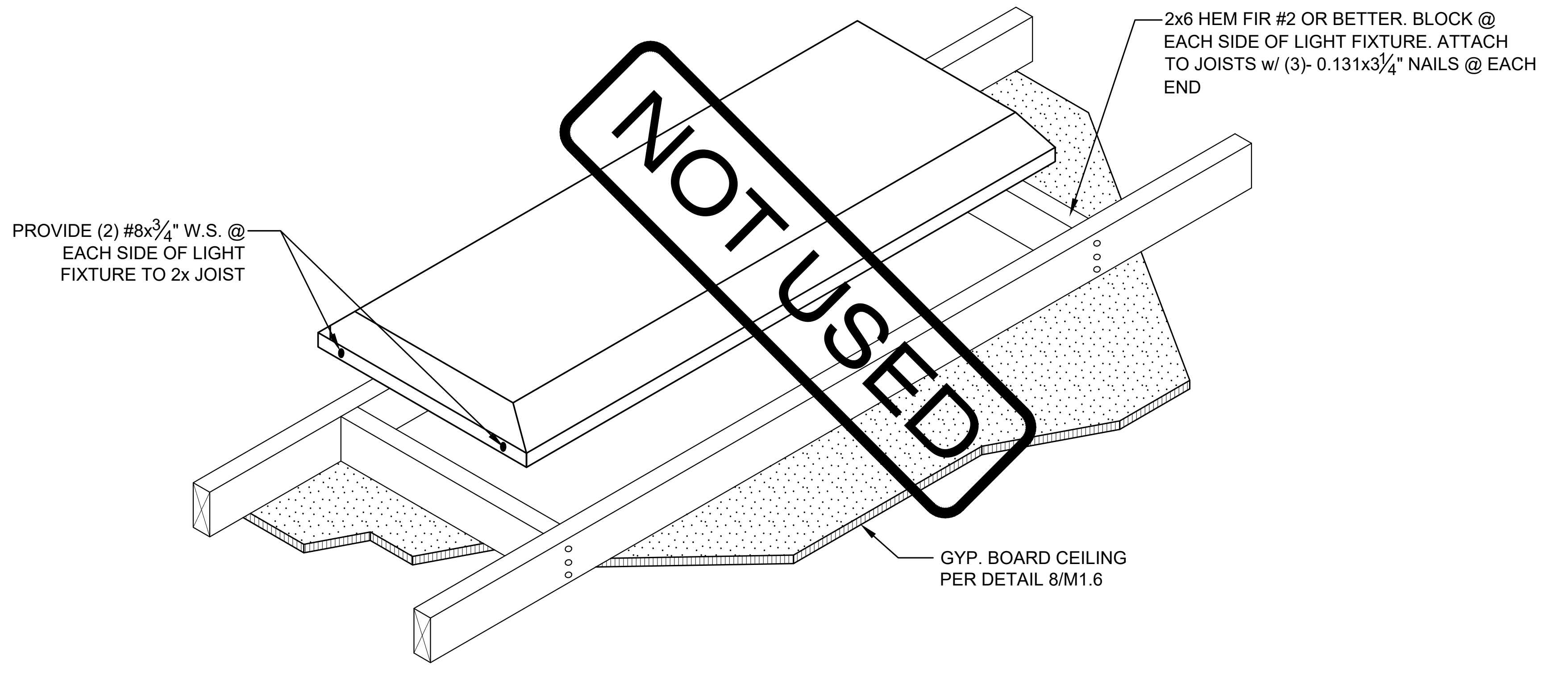
## DRAFT STOP @ PLUMBING CHASE

SCALE: 1" = 1'-0" 5


AS RECOMMENDED BY UNIT MFGR.
AS RECOMMENDED BY UNIT MFGR.
¾" CONDENSATE DRAIN ROUTE PER PLANS
HVAC UNIT

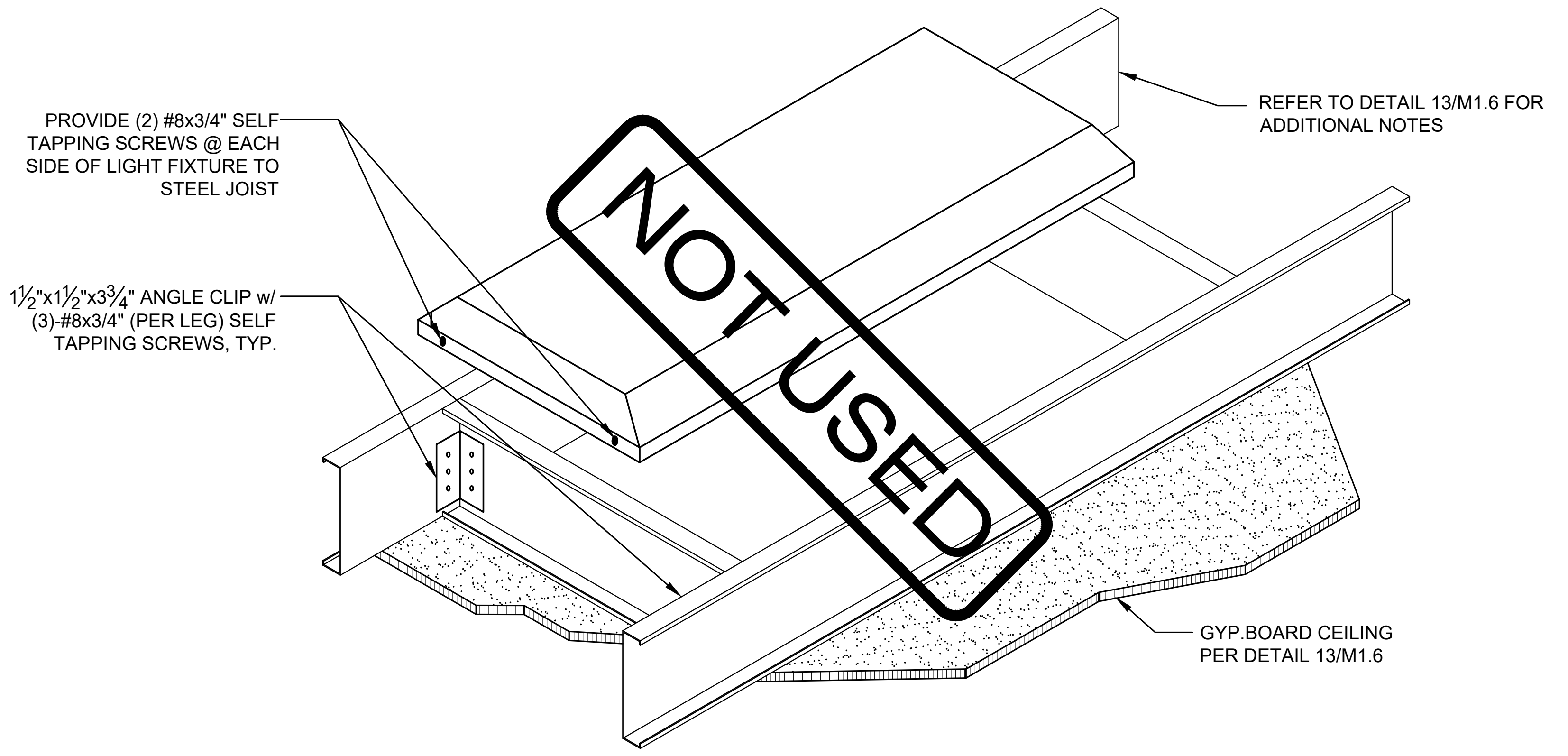
## CONDENSATE DETAIL

NOT TO SCALE 9


NOT USED
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

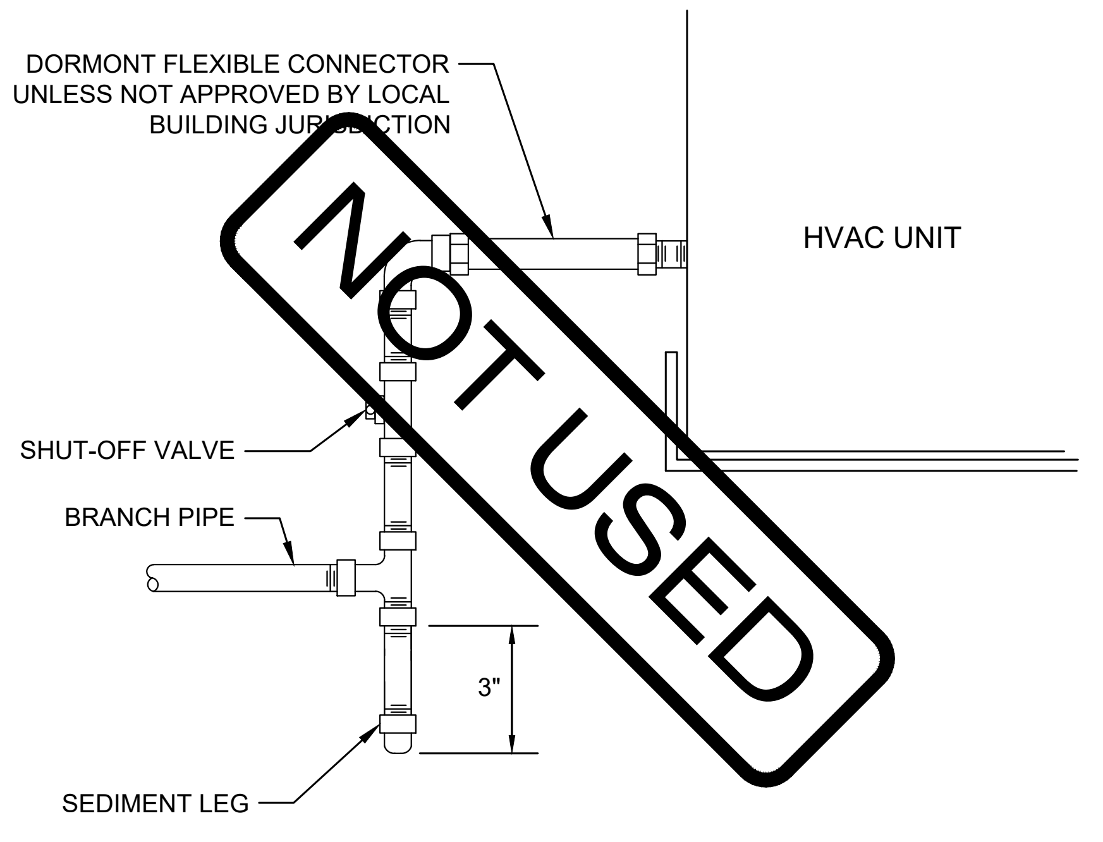
## LIGHT FIXTURE ATTACHMENT DETAIL

NOT TO SCALE 6A


NOT USED
PROVIDE (2) #8x3/4" SELF-TAPPING SCREWS @ EACH SIDE OF LIGHT FIXTURE TO STEEL JOIST
1½"x1½"x3¾" ANGLE CLIP w/ (3)-#8x3/4" (PER LEG) SELF TAPPING SCREWS, TYP.
REFER TO DETAIL 13/M1.6 FOR ADDITIONAL NOTES
GYP.BOARD CEILING PER DETAIL 13/M1.6

## LIGHT FIXTURE ATTACHMENT DETAIL w /METAL STUDS

NOT TO SCALE 6B


NOT USED
DORMONT FLEXIBLE CONNECTOR UNLESS NOT APPROVED BY LOCAL BUILDING JURISDICTION
HVAC UNIT
SHUT-OFF VALVE
BRANCH PIPE
3"
SEDIMENT LEG

## GAS CONNECTION DETAIL

NOT TO SCALE 10

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)

FORM

SITE SPECIFIC PROJECT NAME

.
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~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ **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

| REVISIONS |
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| 2 |
| 3 |
| 4 |

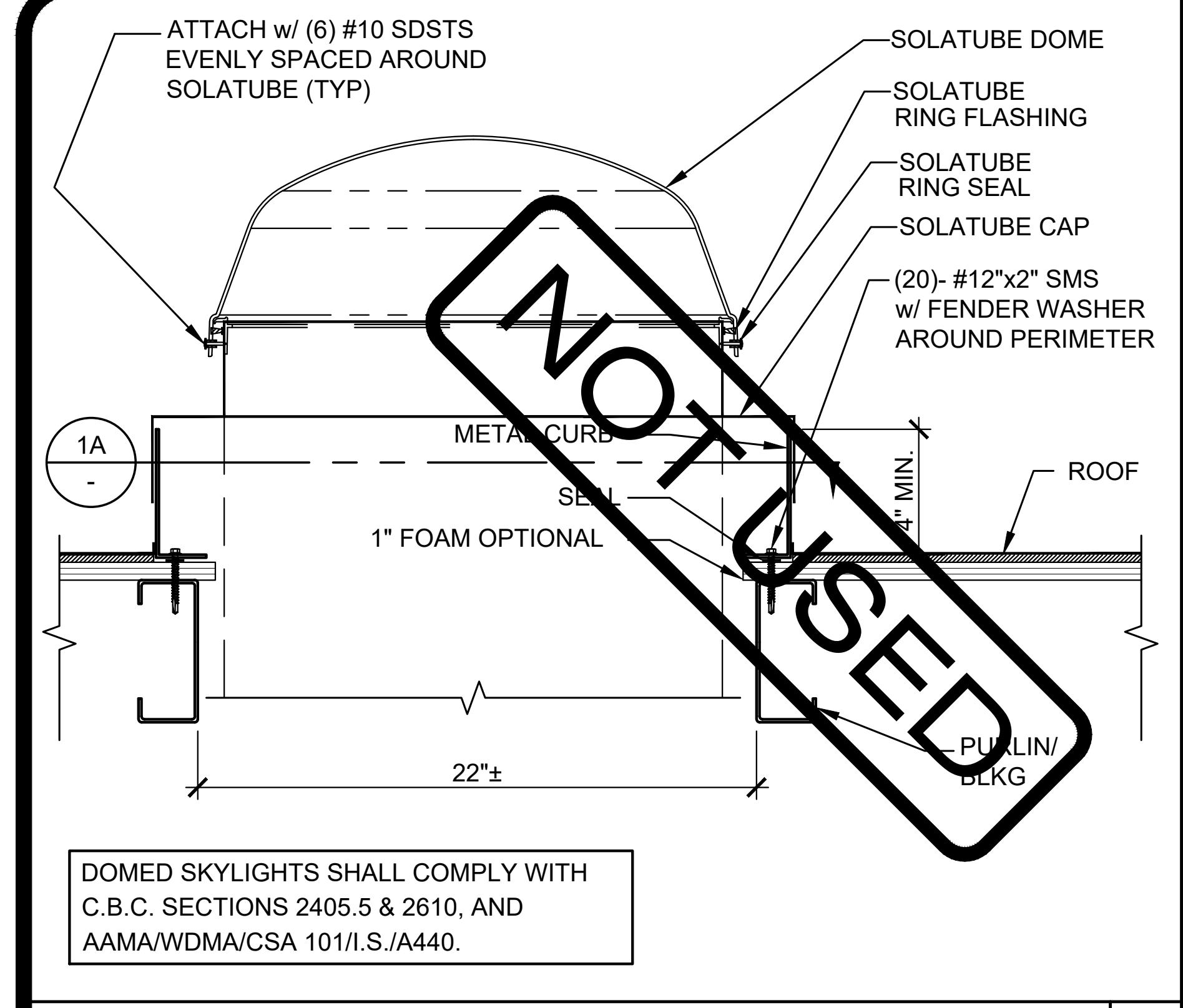
| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:

MECHANICAL
& CEILING
DETAILS

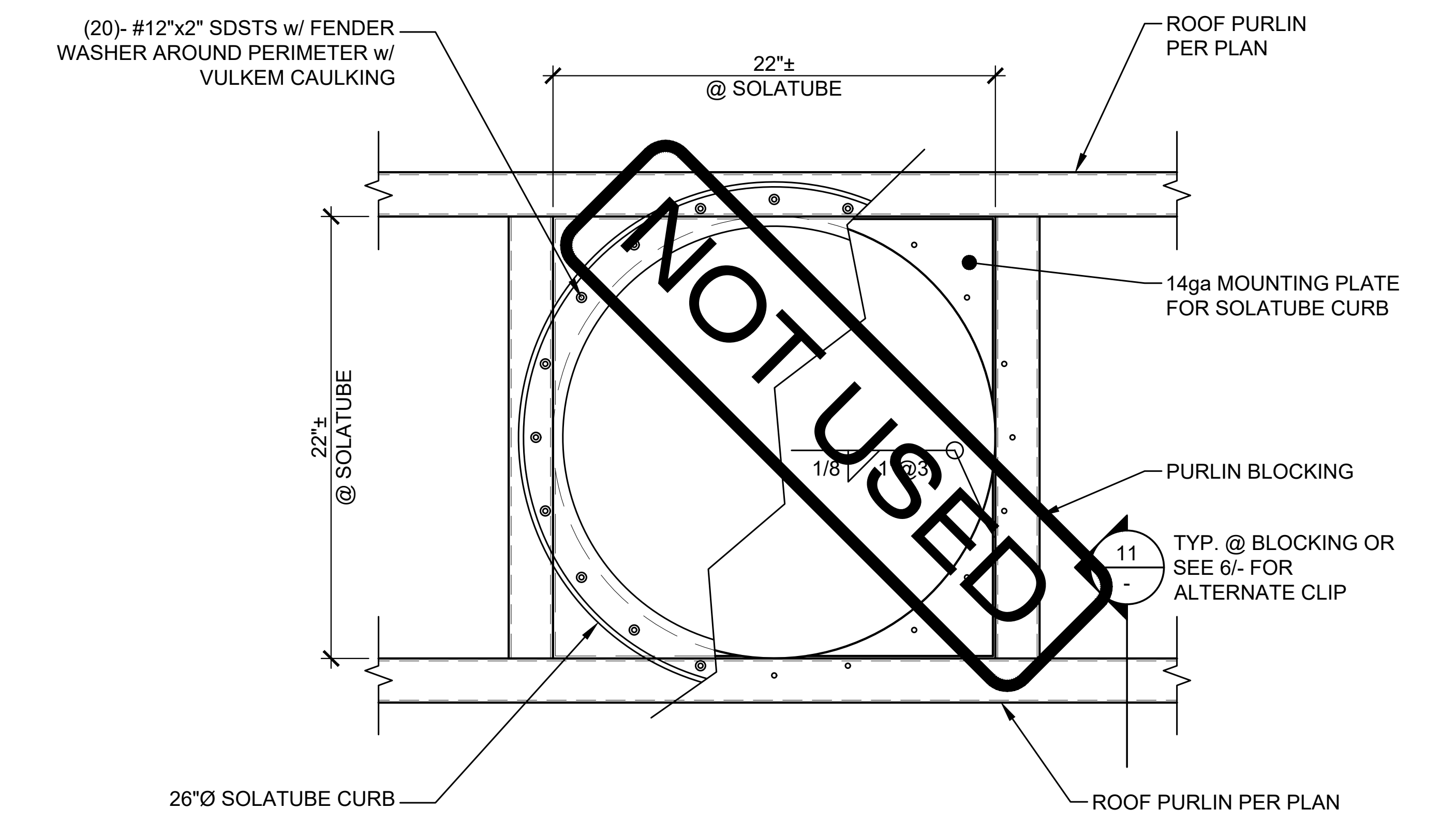
SHEET NUMBER:

M1.5

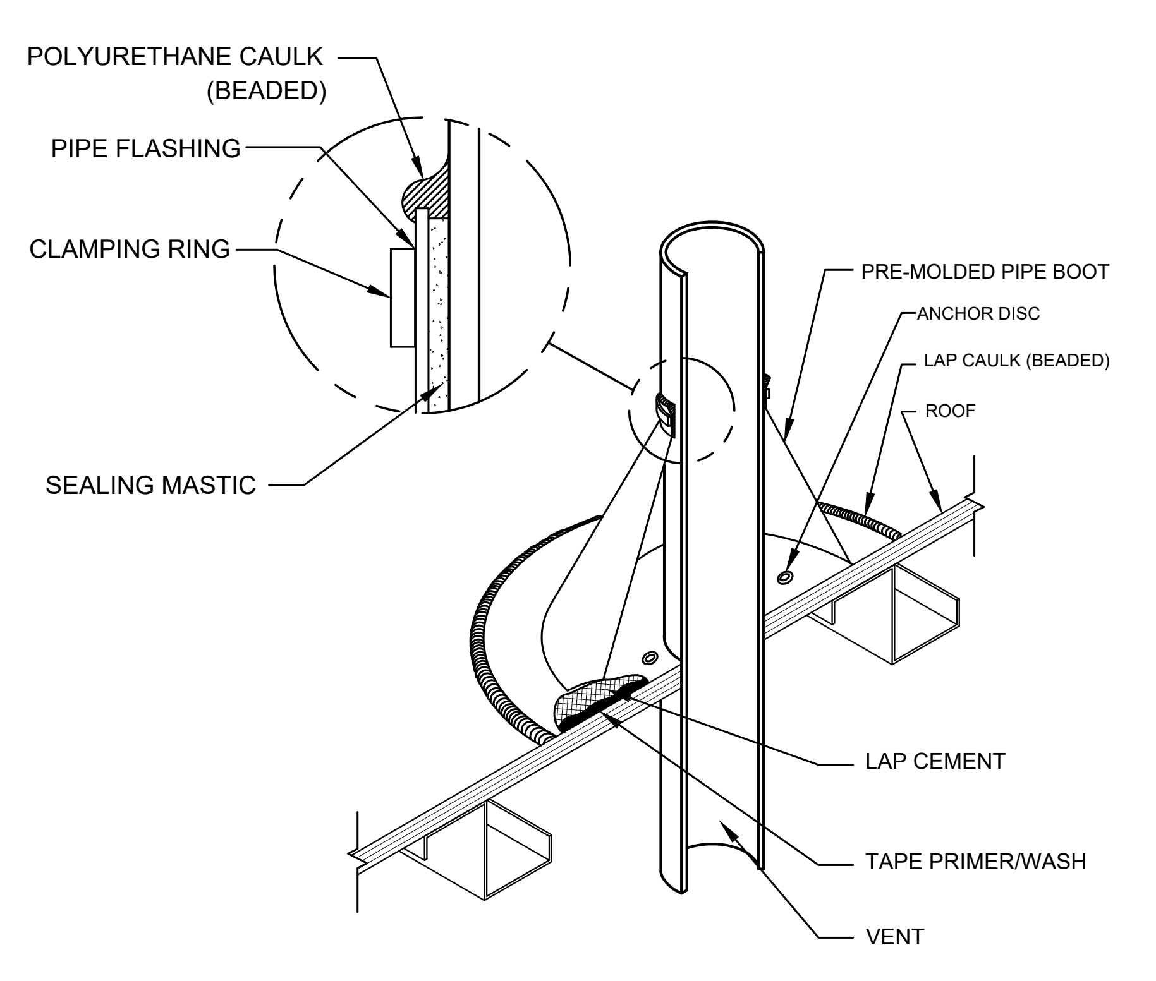


DOMED SKYLIGHTS SHALL COMPLY WITH C.B.C. SECTIONS 2405.5 & 2610, AND AAMA/WDMA/CSA 101/I.S./A440.

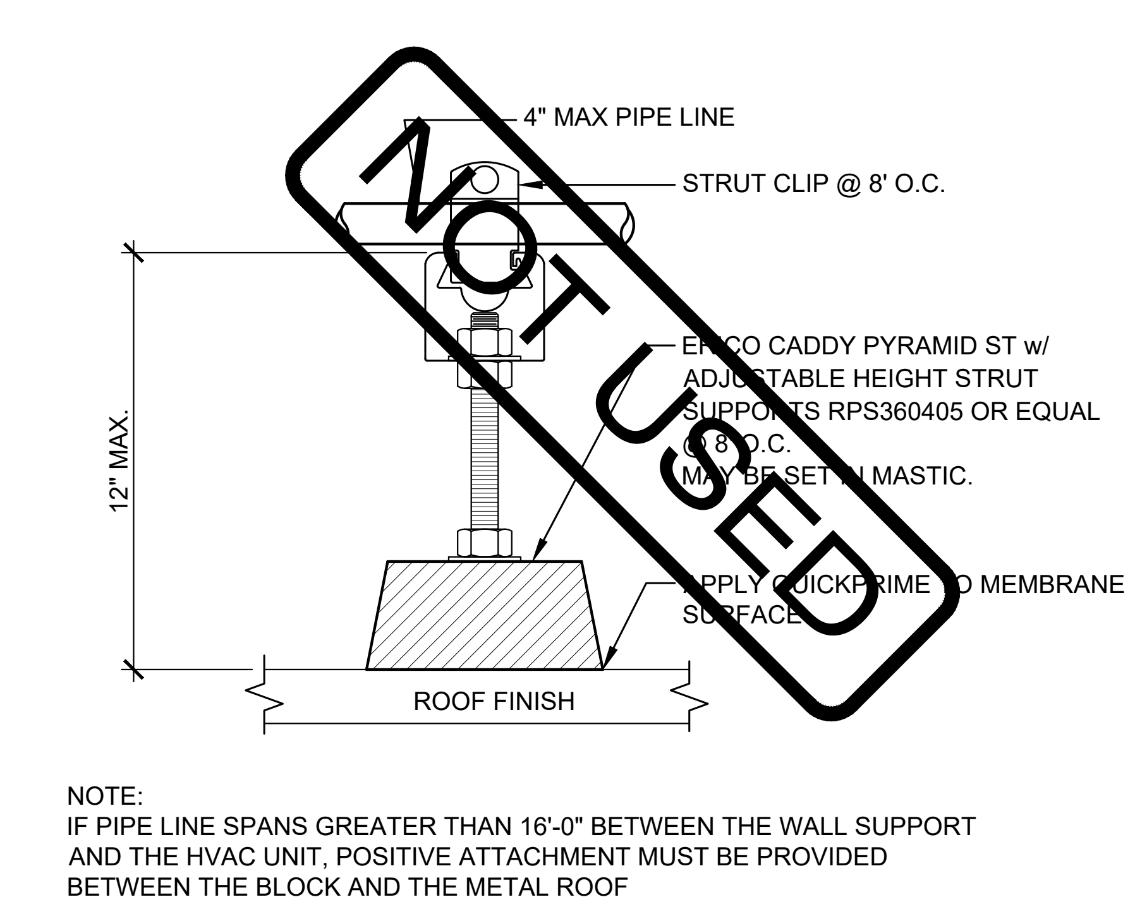
SOLATUBE ATTACHMENT DETAIL SCALE: 1-1/2" = 1'-0" 1


(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
PURLIN BLOCKING
TYP. @ BLOCKING OR SEE 6/- FOR ALTERNATE CLIP
11
26"Ø SOLATUBE CURB
ROOF PURLIN PER PLAN
NOT USED

SOLATUBE CURB ATTACHMENT DETAIL SCALE: 1-1/2" = 1'-0" 1A

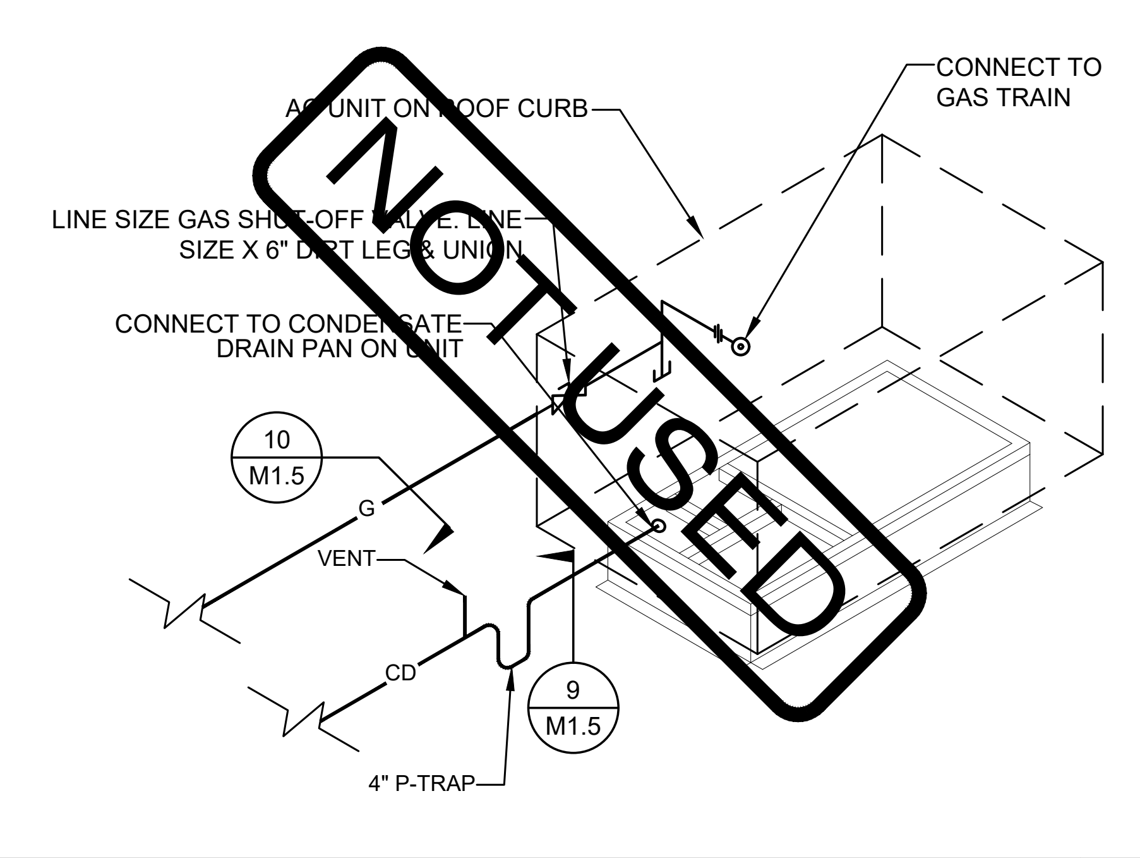


VENT THRU ROOF PENETRATION DETAIL NOT TO SCALE 2

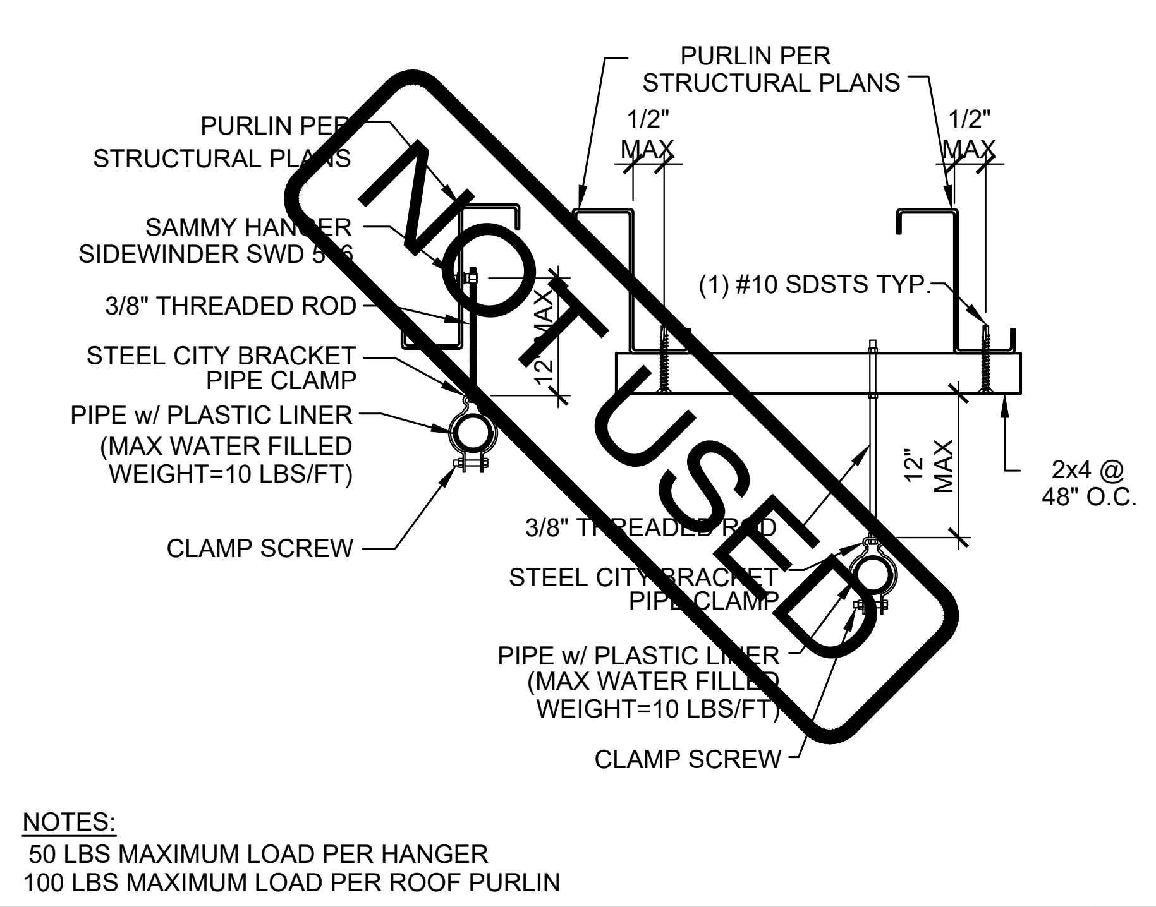

4" MAX PIPE LINE
STRUT CLIP @ 8' O.C.
12" MAX
EMCO CADDY PYRAMID ST w/ ADJUSTABLE HEIGHT STRUT SUPPORTS RPS360405 OR EQUAL @ 8' O.C.
MAKE SET IN MASTIC.
APPLY QUICKPRIME TO MEMBRANE SURFACE
ROOF FINISH
NOT USED

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 NOT TO SCALE 3

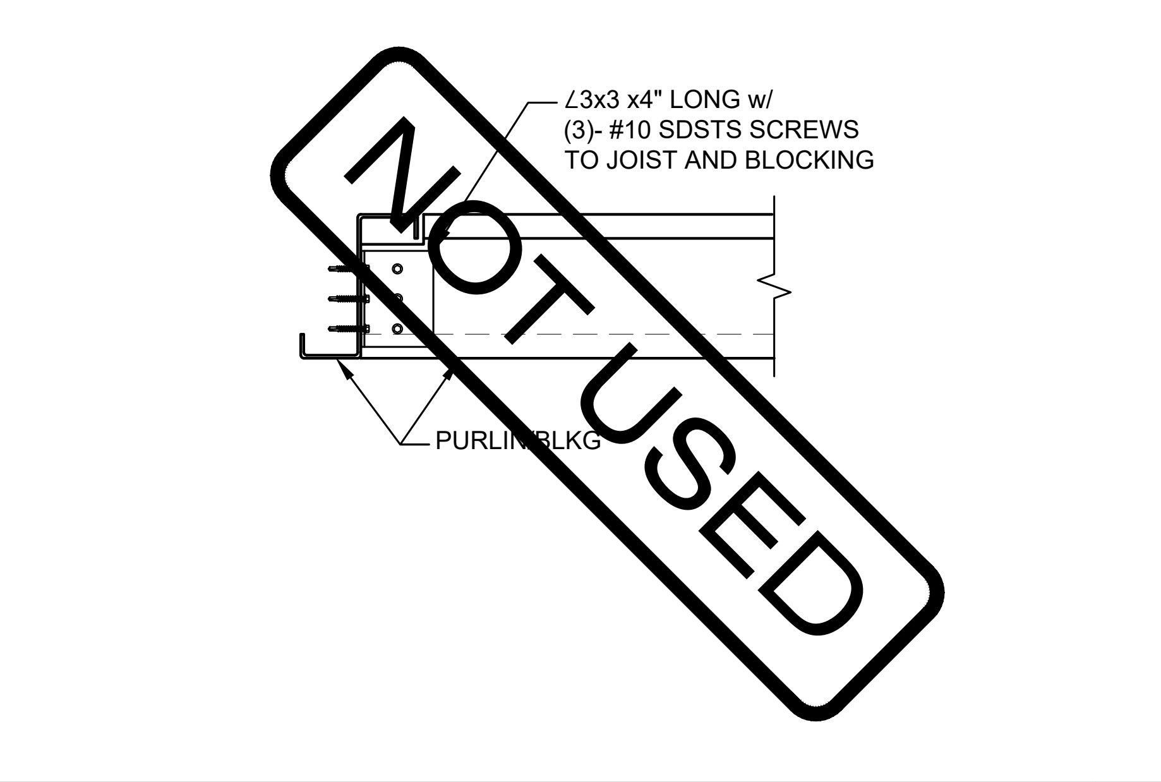

AC UNIT ON ROOF CURB
CONNECT TO GAS TRAIN
LINE SIZE GAS SHUT-OFF VALVE, LINE SIZE X 6" DIRT LEG @ UNIT
CONNECT TO CONDENSATE DRAIN PAN ON UNIT
10 M1.5
G
VENT
CD
9 M1.5
4" P-TRAP
NOT USED

HVAC UNIT PIPING NOT TO SCALE 4

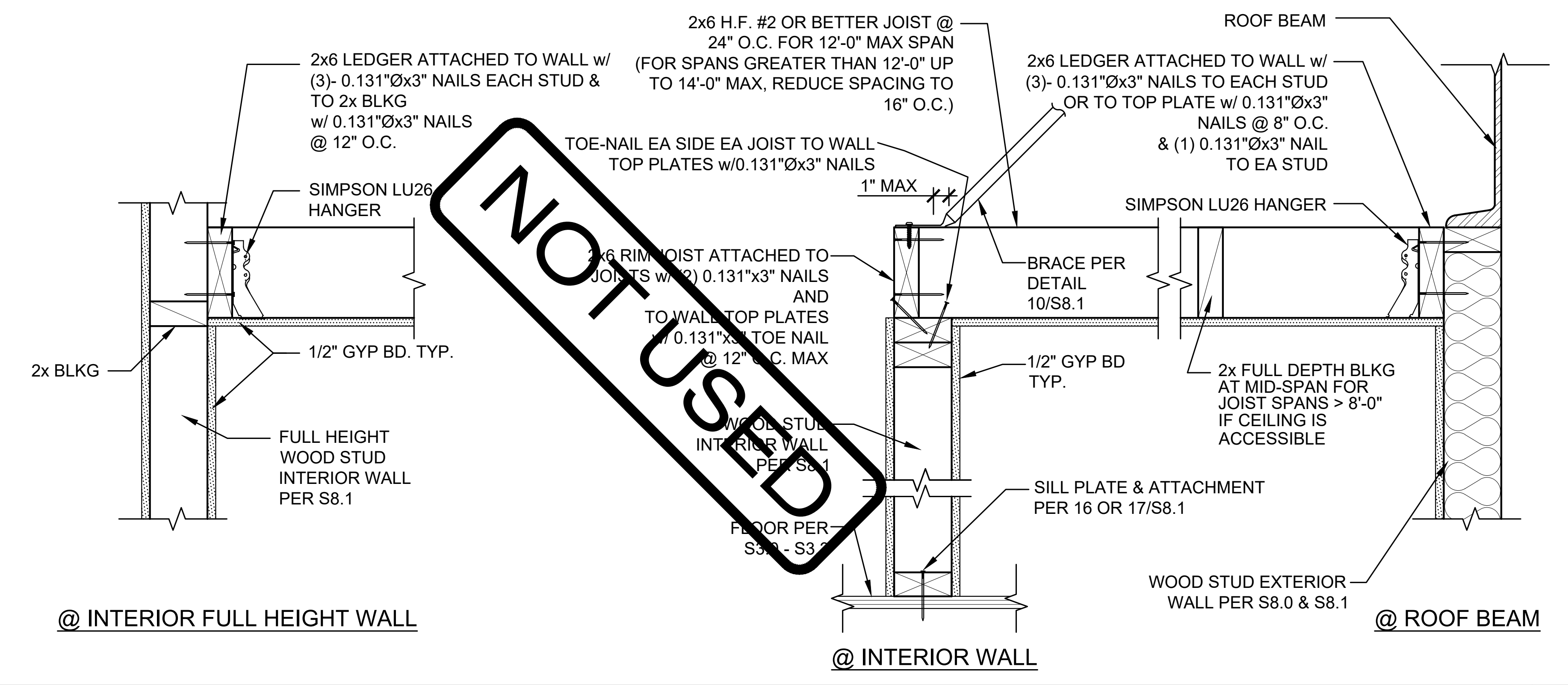

PURLIN PER STRUCTURAL PLANS
PURLIN PER STRUCTURAL PLANS
1/2" MAX
1/2" MAX
SAMMY HANGER SIDEWINDER SWD 3/8
3/8" THREADED ROD
(1) #10 SDSTS TYP.
STEEL CITY BRACKET PIPE CLAMP
PIPE w/ PLASTIC LINER (MAX WATER FILLED WEIGHT=10 LBS/FT)
12" MAX
12" MAX
2x4 @ 48" O.C.
CLAMP SCREW
3/8" THREADED ROD
STEEL CITY 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

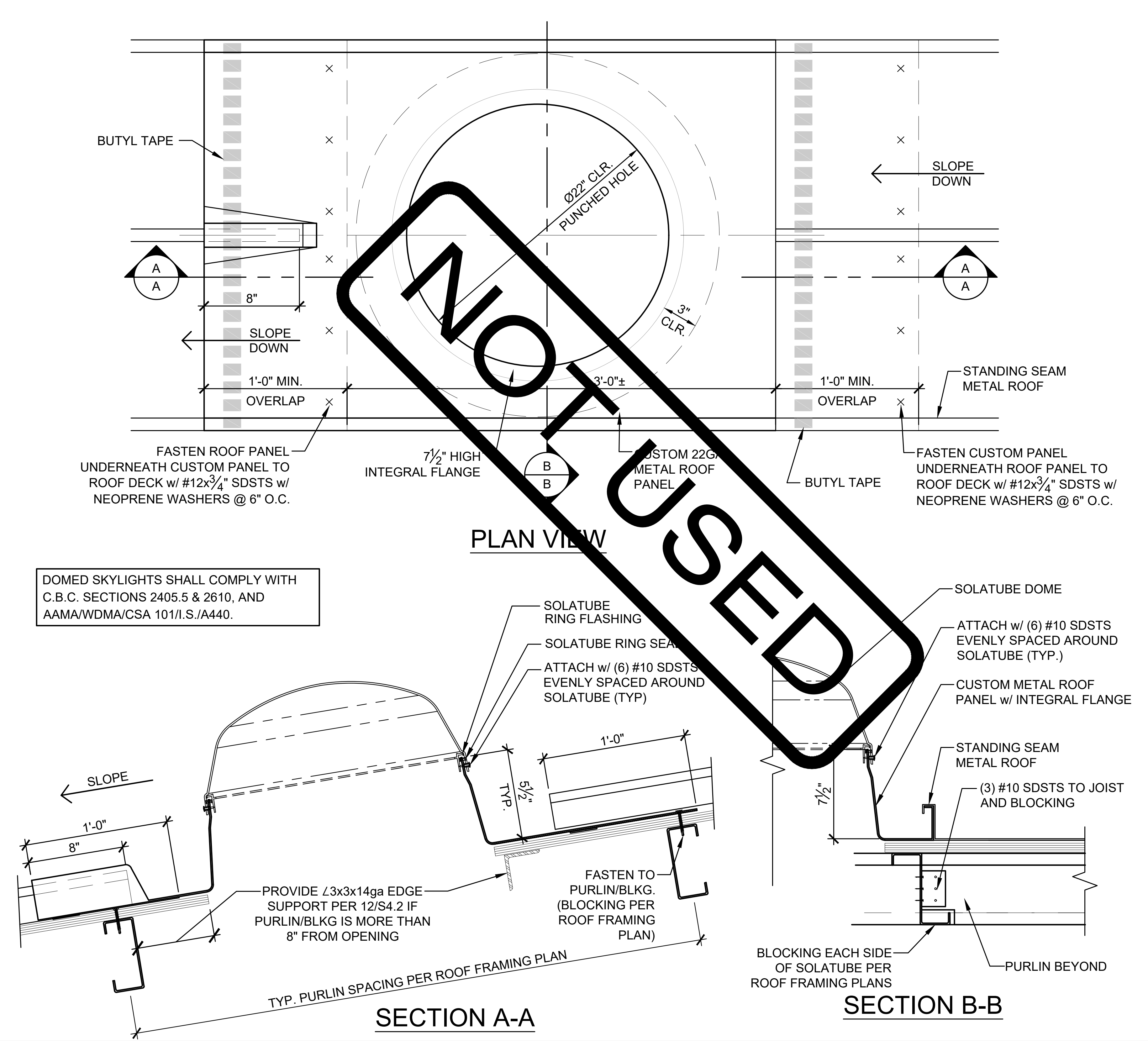
PIPE HANGER DETAIL SCALE: 1-1/2" = 1'-0" 5


∠3x3 x4" LONG w/ (3)- #10 SDSTS SCREWS TO JOIST AND BLOCKING
PURLIN BLKG
NOT USED

SOLATUBE SECTION (ALT. CLIP) SCALE: 1-1/2" = 1'-0" 6

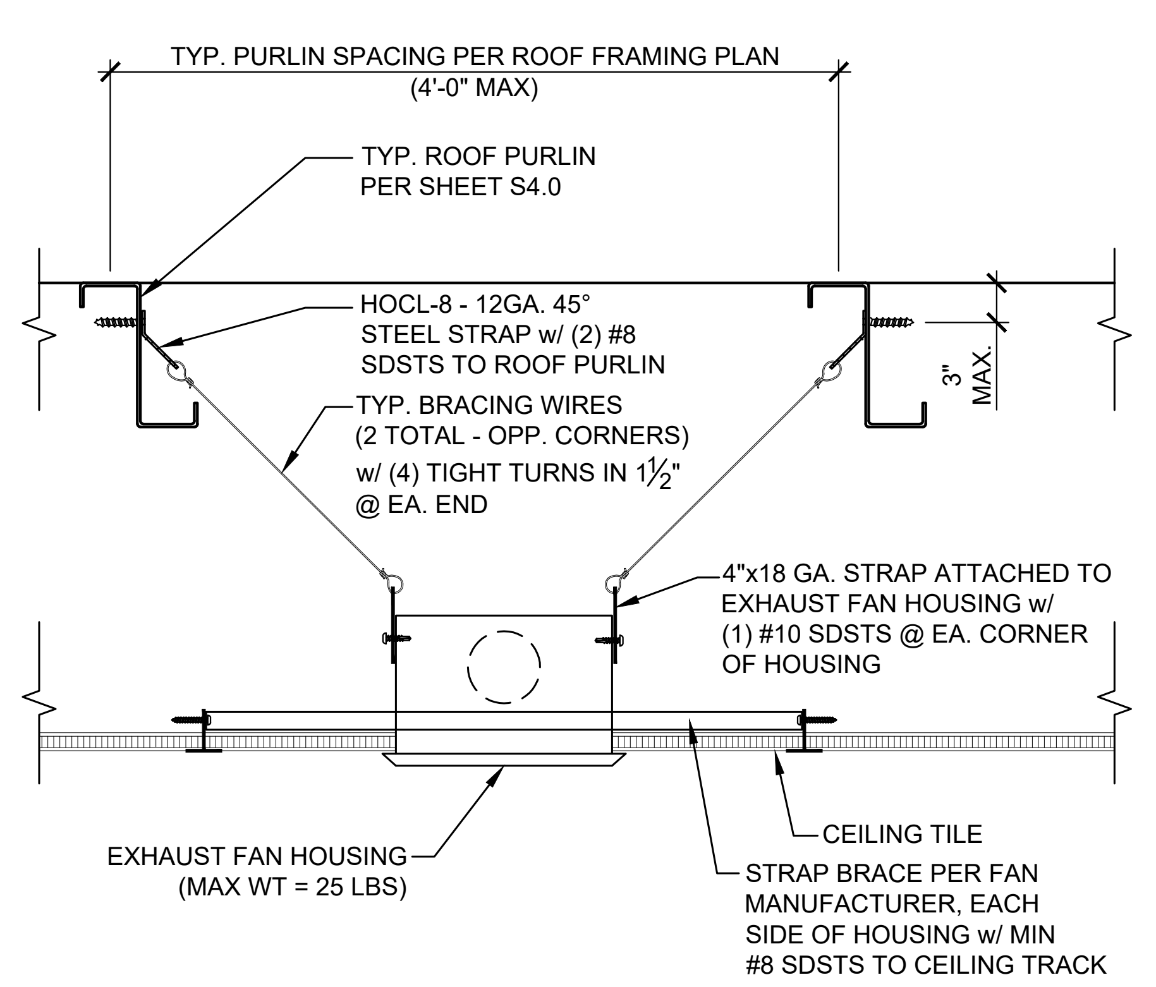

2x6 LEDGER ATTACHED TO WALL w/ (3)- 0.131"Øx3" NAILS EACH STUD & TO 2x BLKG w/ 0.131"Øx3" NAILS @ 12" O.C.
2x6 H.F. #2 OR BETTER JOIST @ 24" O.C. FOR 12'-0" MAX SPAN (FOR SPANS GREATER THAN 12'-0" UP TO 14'-0" MAX, REDUCE SPACING TO 16" O.C.)
ROOF BEAM
2x6 LEDGER ATTACHED TO WALL w/ (3)- 0.131"Øx3" NAILS TO EACH STUD OR TO TOP PLATE w/ 0.131"Øx3" NAILS @ 8" O.C. & (1) 0.131"Øx3" NAIL TO EA STUD
TOE-NAIL EA SIDE EA JOIST TO WALL TOP PLATES w/ 0.131"Øx3" NAILS
1" MAX
SIMPSON LU26 HANGER
SIMPSON LU26 HANGER
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
2x BLKG
1/2" GYP BD. TYP.
1/2" GYP BD TYP.
2x FULL DEPTH BLKG AT MID-SPAN FOR JOIST SPANS > 8'-0" IF CEILING IS ACCESSIBLE
FULL HEIGHT WOOD STUD INTERIOR WALL PER S8.1
WOOD STUD INTERIOR WALL PER S8.1
SILL PLATE & ATTACHMENT PER 16 OR 17/S8.1
FLOOR PER S3.0 - S3.3
WOOD STUD EXTERIOR WALL PER S8.0 & S8.1
@ INTERIOR FULL HEIGHT WALL
@ INTERIOR WALL
@ ROOF BEAM
NOT USED

GYPSUM BOARD CEILING DETAIL w/ WOOD STUDS OPTION SCALE: 1-1/2" = 1'-0" 8

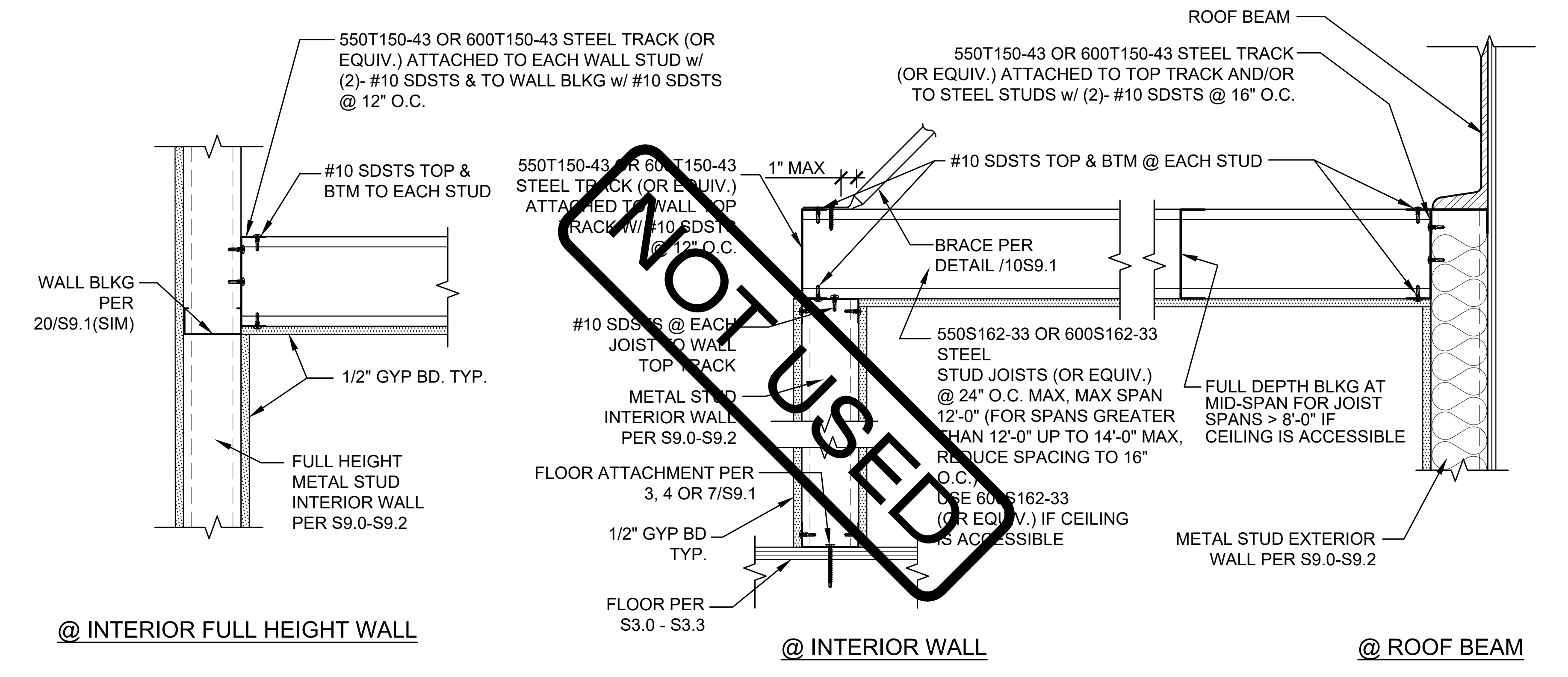

BUTYL TAPE
SLOPE DOWN
Ø22" CLR. PUNCHED HOLE
A A
A A
8"
SLOPE DOWN
3" CLR.
1'-0" MIN. OVERLAP
3'-0"±
1'-0" MIN. OVERLAP
STANDING SEAM METAL ROOF
FASTEN ROOF PANEL UNDERNEATH CUSTOM PANEL TO ROOF DECK w/ #12x3/4" SDSTS w/ NEOPRENE WASHERS @ 6" O.C.
7 1/2" HIGH INTEGRAL FLANGE
B B
CUSTOM 22GA METAL ROOF PANEL
BUTYL TAPE
FASTEN CUSTOM PANEL UNDERNEATH ROOF PANEL TO ROOF DECK w/ #12x3/4" SDSTS w/ NEOPRENE WASHERS @ 6" O.C.
PLAN VIEW
SOLATUBE RING FLASHING
SOLATUBE RING SEAL
ATTACH w/ (6) #10 SDSTS EVENLY SPACED AROUND SOLATUBE (TYP)
SOLATUBE DOME
ATTACH w/ (6) #10 SDSTS EVENLY SPACED AROUND SOLATUBE (TYP.)
CUSTOM METAL ROOF PANEL w/ INTEGRAL FLANGE
STANDING SEAM METAL ROOF
(3) #10 SDSTS TO JOIST AND BLOCKING
SLOPE
1'-0"
8"
1'-0"
TYP.
5 1/2"
7 1/2"
PROVIDE ∠3x3x14ga EDGE SUPPORT PER 12/S4.2 IF PURLIN/BLKG IS MORE THAN 8" FROM OPENING
FASTEN TO PURLIN/BLKG. (BLOCKING PER ROOF FRAMING PLAN)
BLOCKING EACH SIDE OF SOLATUBE PER ROOF FRAMING PLANS
PURLIN BEYOND
TYP. PURLIN SPACING PER ROOF FRAMING PLAN
SECTION A-A
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.

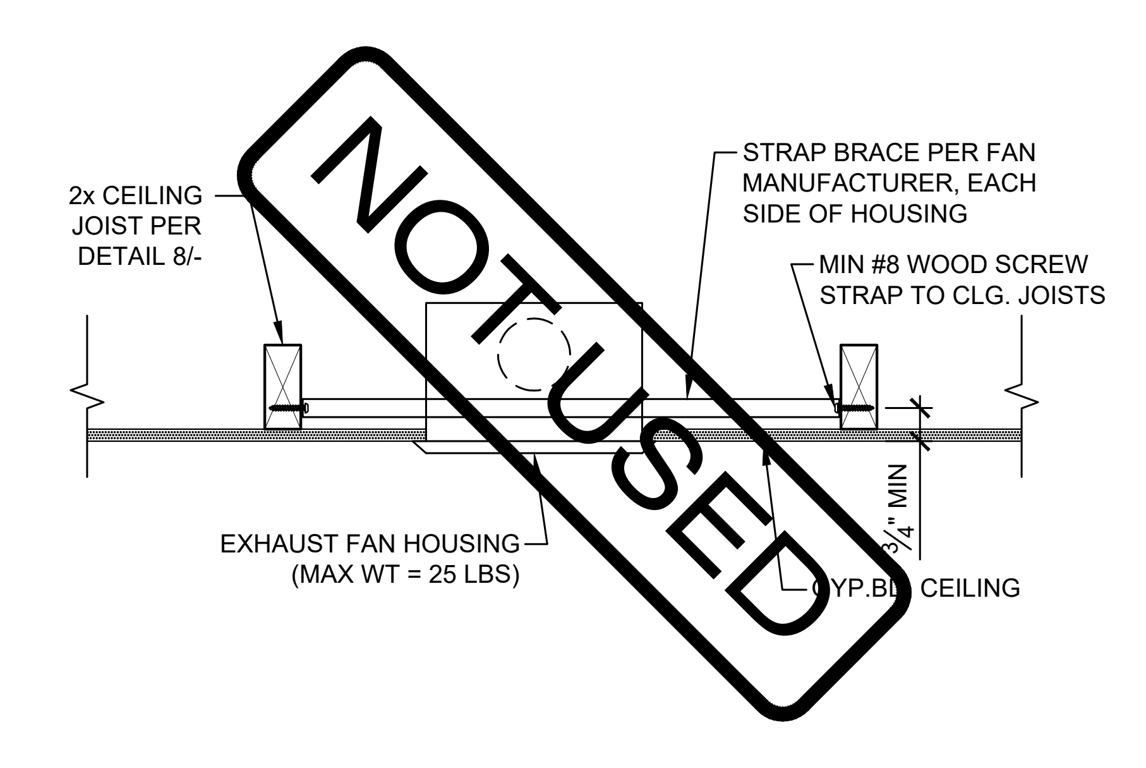
OPTIONAL SOLATUBE DETAILS SCALE: 1-1/2" = 1'-0" 15


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 1 1/2" @ EA. END
4"x18 GA. STRAP ATTACHED TO EXHAUST FAN HOUSING w/ (1) #10 SDSTS @ EA. CORNER OF HOUSING
CEILING TILE
EXHAUST FAN HOUSING (MAX WT = 25 LBS)
STRAP BRACE PER FAN MANUFACTURER, EACH SIDE OF HOUSING w/ MIN #8 SDSTS TO CEILING TRACK

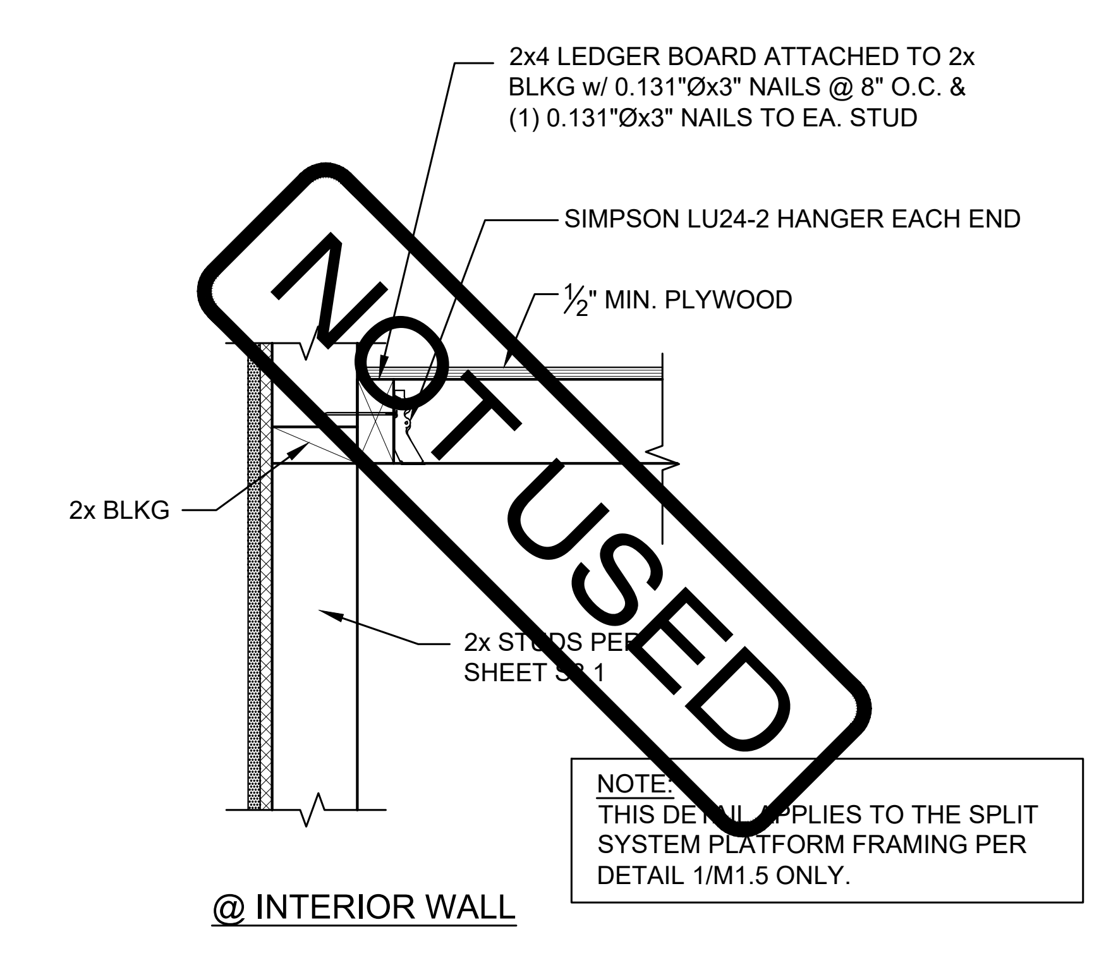
EXHAUST FAN @ T-BAR CEILING MOUNT 11


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.
ROOF BEAM
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 TO EACH STUD
550T150-43 OR 600T150-43 STEEL TRACK (OR EQUIV.) ATTACHED TO WALL TOP TRACK w/ #10 SDSTS @ 12" O.C.
1" MAX
#10 SDSTS TOP & BTM @ EACH STUD
WALL BLKG PER 20/S9.1(SIM)
BRACE PER DETAIL /10S9.1
#10 SDSTS @ EACH JOIST TO WALL TOP TRACK
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.)
1/2" GYP BD. TYP.
METAL STUD INTERIOR WALL PER S9.0-S9.2
USE 600S162-33 (OR EQUIV.) IF CEILING IS ACCESSIBLE
FULL DEPTH BLKG AT MID-SPAN FOR JOIST SPANS > 8'-0" IF CEILING IS ACCESSIBLE
FULL HEIGHT 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
METAL STUD EXTERIOR WALL PER S9.0-S9.2
@ INTERIOR FULL HEIGHT WALL
@ INTERIOR WALL
@ ROOF BEAM
NOT USED

GYPSUM BOARD CEILING DETAIL w/ STEEL STUDS OPTION SCALE: 1-1/2" = 1'-0" 13

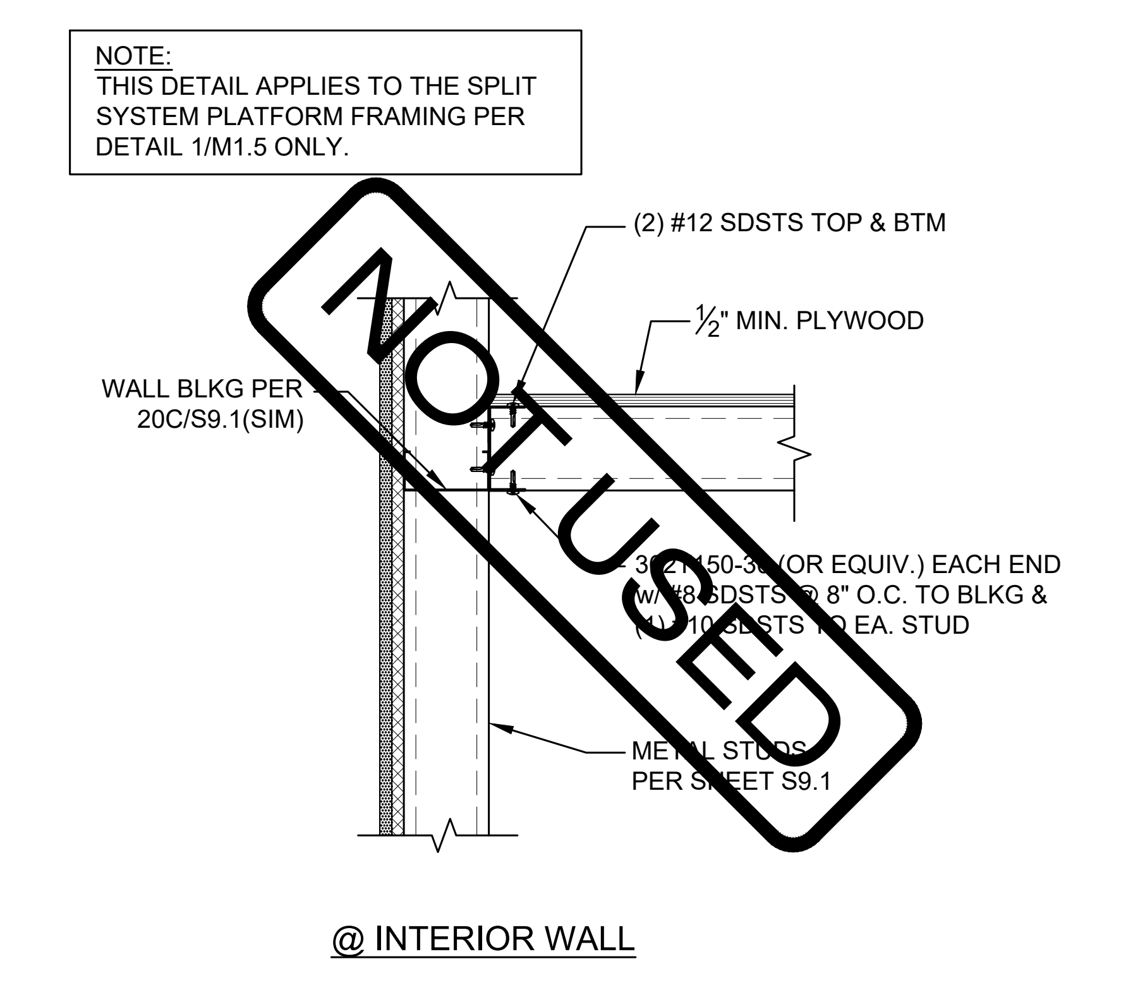

2x CEILING JOIST PER DETAIL 8/-
STRAP BRACE PER FAN MANUFACTURER, EACH SIDE OF HOUSING
MIN #8 WOOD SCREW STRAP TO CLG. JOISTS
EXHAUST FAN HOUSING (MAX WT = 25 LBS)
1/2" MIN
GYP.BD. CEILING
NOT USED

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 LU24-2 HANGER EACH END
1/2" 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


(2) #12 SDSTS TOP & BTM
1/2" MIN. PLYWOOD
WALL BLKG PER 20C/S9.1(SIM)
362T150-33 (OR EQUIV.) EACH END w/ #8 SDSTS @ 8" O.C. TO BLKG & (4) #10 SDSTS TO EA. STUD
METAL STUDS PER SHEET S9.1
@ INTERIOR WALL
NOT USED

NOTE:
THIS DETAIL APPLIES TO THE SPLIT SYSTEM PLATFORM FRAMING PER DETAIL 1/M1.5 ONLY.

DETAIL @ STEEL STUD OPTION SCALE: 1-1/2" = 1'-0" 18

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122050 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 12/11/2023

☐ **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: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:
MECHANICAL
ROOF DETAILS

SHEET NUMBER:
M1.6

### ☐ 24'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 |

### ☒ 36'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 |

### ☐ 48'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 |

### ☐ 60'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 |

### ☐ 72'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 |

### ☐ 84'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-15 |
| 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 |

### ☐ 96'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 |

### ☐ 108'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-15 |
| 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 |

### ☐ 120'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.

## MINIMUM INSULATION SCHEDULES

---

## SUSPENDED LAY-IN PANEL CEILING: PER DSA IR 25-2

### 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

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ **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
△1
△2
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DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-22

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-5 OR R-15 (REFER TO INSULATION TABLES IN PAGE M1.7) TOP OF ROOF SHEATHING.
   - B. WALLS INSULATION: R-13 KRAFT FACED. (R-5 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: R-5 OR R-15 (REFER TO INSULATION TABLES IN PAGE M1.7)
   - F. BURNING CHARACTERISTICS: FLAME SPREAD LESS THAN 25 & SMOKE DEVELOPMENT IS LESS THAN 50
   - E. FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 720.

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)

### H2 FAN SYSTEMS

| BUILDING SIZE | DESIGN OA |
|---|---|
| | CFM |
| ~~24'x40'~~ | ~~365~~ |
| 36'x40' | 547 |
| ~~48'x40'~~ | ~~365~~ |
| ~~60'x40'~~ | ~~456~~ |
| ~~72'x40'~~ | ~~547~~ |
| ~~84'x40'~~ | ~~365~~ |
| ~~96'x40'~~ | ~~365~~ |
| ~~108'x40'~~ | ~~365~~ |
| ~~120'x40'~~ | ~~365~~ |

### HVAC CFM CHART

| | MODEL # | DESCRIPTION | MAX. CFM | UNIT WEIGHT (LBS) | EER |
|---|---|---|---|---|---|
| SYSTEM AIR INDOOR | CAH-3 | 4 TON HEAT PUMP | 1600 | 948 | 11 |
| | CAH-5 | 5 TON HEAT PUMP | 1800 | 948 | 11 |

### HVAC CFM CHART

| | MODEL # | DESCRIPTION | MAX. CFM | UNIT WEIGHT (LBS) | EER | COP | CLIMATE ZONE(S) |
|---|---|---|---|---|---|---|---|
| BARD WALL HUNG | W36HB | 3 TON HEAT PUMP | 1143 | 500 | 11 | 3.3 | 1-16 |
| | W42HC | 3½ TON HEAT PUMP | 1140 | 500 | 11 | 3.3 | 1-16 |
| | W48HC | 4 TON HEAT PUMP | 1650 | 505 | 11 | 3.3 | 1-16 |
| | W60HC | 4½ TON HEAT PUMP | 1855 | 515 | 11 | 3.3 | 1-16 |

### HVAC CFM CHART

| | MODEL # | DESCRIPTION | MAX. CFM | UNIT WEIGHT (LBS) | EER | SEER | CLIMATE ZONE(S) |
|---|---|---|---|---|---|---|---|
| CARRIER ROOF MOUNT | 50VT-C36---3--TP | 3 TON HEAT PUMP | 1200 | 371 | 12.0 | 14.5 | 1-16 |
| | 50VT-C42---3--TP | 3½ TON HEAT PUMP | 1400 | 412 | 12.0 | 14.5 | 1-16 |
| | 50VT-C48---3--TP | 4 TON HEAT PUMP | 1600 | 432 | 12.0 | 14.5 | 1-16 |
| | 50VT-C60---3--TP | 4½ TON HEAT PUMP | 1750 | 462 | 12.0 | 14.2 | 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 | 25HCE436A003 | 3 TON HEAT PUMP | FX4DN037 | 1200 | 157 | 11.5 | 14.0 | 1-16 |
| | 25HCE442A003 | 3½ TON HEAT PUMP | FX4DN043 | 1400 | 157 | 11.5 | 14.0 | 1-16 |
| | 25HCE448A003 | 4 TON HEAT PUMP | FX4DN049 | 1600 | 185 | 11.5 | 14.0 | 1-16 |
| | 25HCE460A003 | 4½ TON HEAT PUMP | FX4DN061 | 2000 | 201 | 11.5 | 14.0 | 1-16 |

THE CALIFORNIA ENERGY CODE SECTION 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 A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMANCE BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LIST OF CERTIFIED ATT'S CAN BE FOUND AT:
HTTP://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 THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. PROJECT INSPECTORS WILL BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

### HVAC SCHEDULE

| BUILDING SIZE & CLIMATE ZONE GROUP (ZONE) | # OF HVAC<br>3½ TON (BARD) | 4 TON (BARD) | 4 TON (SYSTEM AIR) | 5 TON (SYTEM AIR) | BUILDING SIZE & CLIMATE ZONE GROUP (ZONE) | # OF HVAC<br>3½ TON (BARD) | 4 TON (BARD) | 4 TON (SYSTEM AIR) | 5 TON (SYTEM AIR) | BUILDING SIZE & CLIMATE ZONE GROUP (ZONE) | # OF HVAC<br>3½ TON (BARD) | 4 TON (BARD) | 4 TON (SYSTEM AIR) | 5 TON (SYTEM AIR) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ☐ 24'x40' GROUP A (1,16) | 1 | | | | ☐ 60'x40' GROUP A (1,16) | 2 | | | | ☐ 96'x40' GROUP A (1,16) | 4 | | | |
| ☐ 24'x40' GROUP B (2-5) | 1 | | | | ☐ 60'x40' GROUP B (2-5) | 2 | | | | ☐ 96'x40' GROUP B (2-5) | 4 | | | |
| ☐ 24'x40' GROUP C (6-13) | 1 | | | | ☐ 60'x40' GROUP C (6-13) | 2 | | | | ☐ 96'x40' GROUP C (6-13) | 4 | | | |
| ☐ 24'x40' GROUP D (14,15) | 1 | | | | ☐ 60'x40' GROUP D (14,15) | | 2 | | | ☐ 96'x40' GROUP D (14,15) | 4 | | | |
| ☐ 36'x40' GROUP A (1,16) | 1 | | | | ☐ 72'x40' GROUP A (1,16) | 2 | | | | ☐ 108'x40' GROUP A (1,16) | 3 | | | |
| ☒ 36'x40' GROUP B (2-5) | 1 | | | | ☐ 72'x40' GROUP B (2-5) | 2 | | | | ☐ 108'x40' GROUP B (2-5) | 3 | | | |
| ☒ 36'x40' GROUP C (6-13) | | | 1 | | ☐ 72'x40' GROUP C (6-13) | | | 2 | | ☐ 108'x40' GROUP C (6-13) | | | 3 | |
| ☒ 36'x40' GROUP D (14,15) | | | 1 | | ☐ 72'x40' GROUP D (14,15) | | | 2 | | ☐ 108'x40' GROUP D (14,15) | | | 3 | |
| ☐ 48'x40' GROUP A (1,16) | 2 | | | | ☐ 84'x40' GROUP A (1,16) | 2 | | | | ☐ 120'x40' GROUP A (1,16) | 5 | | | |
| ☐ 48'x40' GROUP B (2-5) | 2 | | | | ☐ 84'x40' GROUP B (2-5) | 2 | | | | ☐ 120'x40' GROUP B (2-5) | 5 | | | |
| ☐ 48'x40' GROUP C (6-13) | 2 | | | | ☐ 84'x40' GROUP C (6-13) | | | 2 | | ☐ 120'x40' GROUP C (6-13) | 5 | | | |
| ☐ 48'x40' GROUP D (14,15) | 2 | | | | ☐ 84'x40' GROUP D (14,15) | | | 2 | | ☐ 120'x40' GROUP D (14,15) | 5 | | | |

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)

** SECURED w/ 22 GA WIRE @ 16" O.C.
*** R-1 MAY BE ACHEIVED w/ POLYSTYRENE OR INSULATION TAPE APLLIED TO THE TOP FLANGE OF PURLINS, TYP.

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: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122050 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 12/11/2023

☐ 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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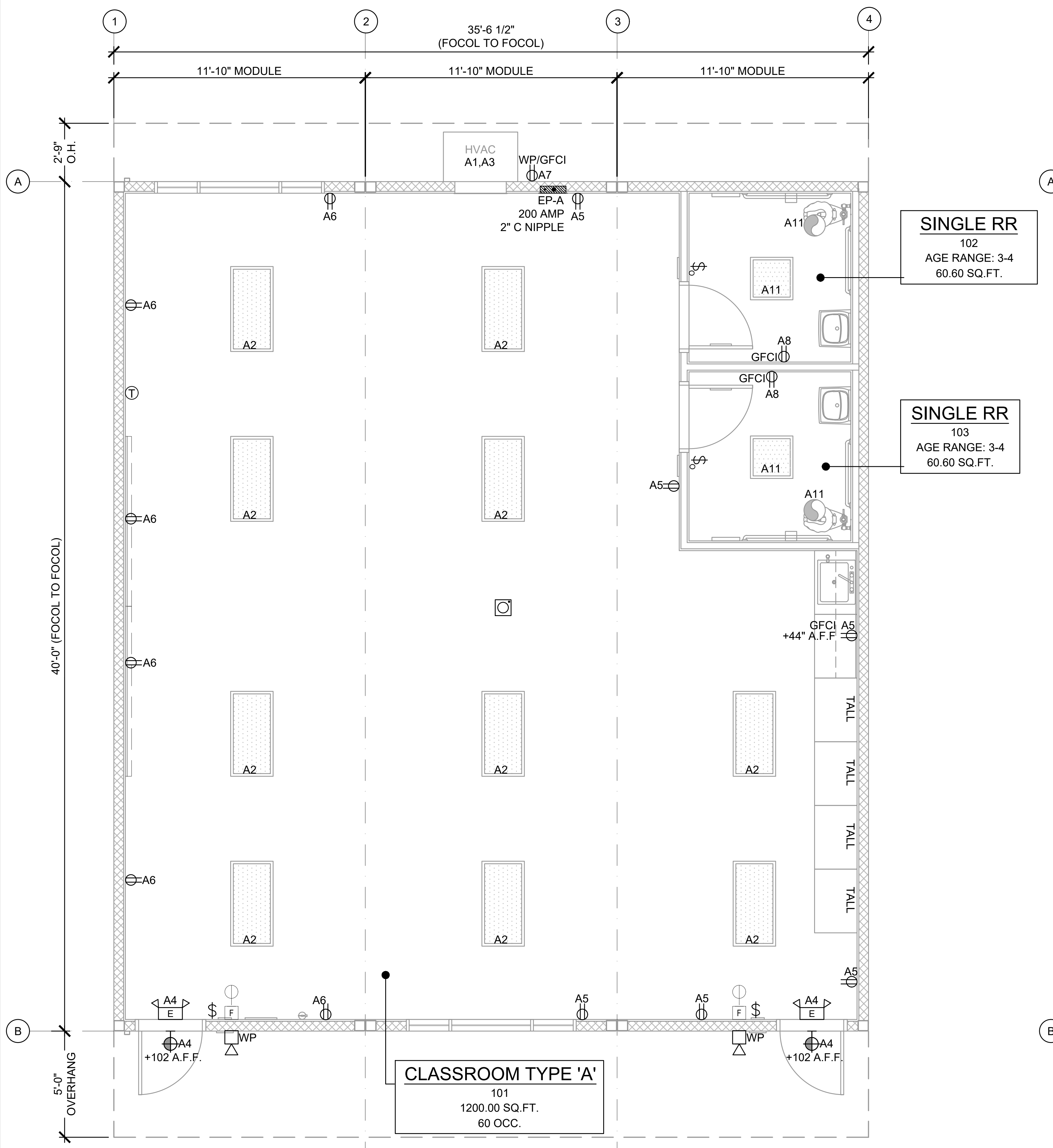
2
3
4

| | |
|---|---|
| DRAWN BY: | AA |
| SCALE: | AS NOTED |
| DATE: | MM/DD/YY |
| PROJECT NO: | XXXX-22 |

SHEET TITLE:
MECHANICAL NOTES
& SCHEDULES

SHEET NUMBER:
M1.7A



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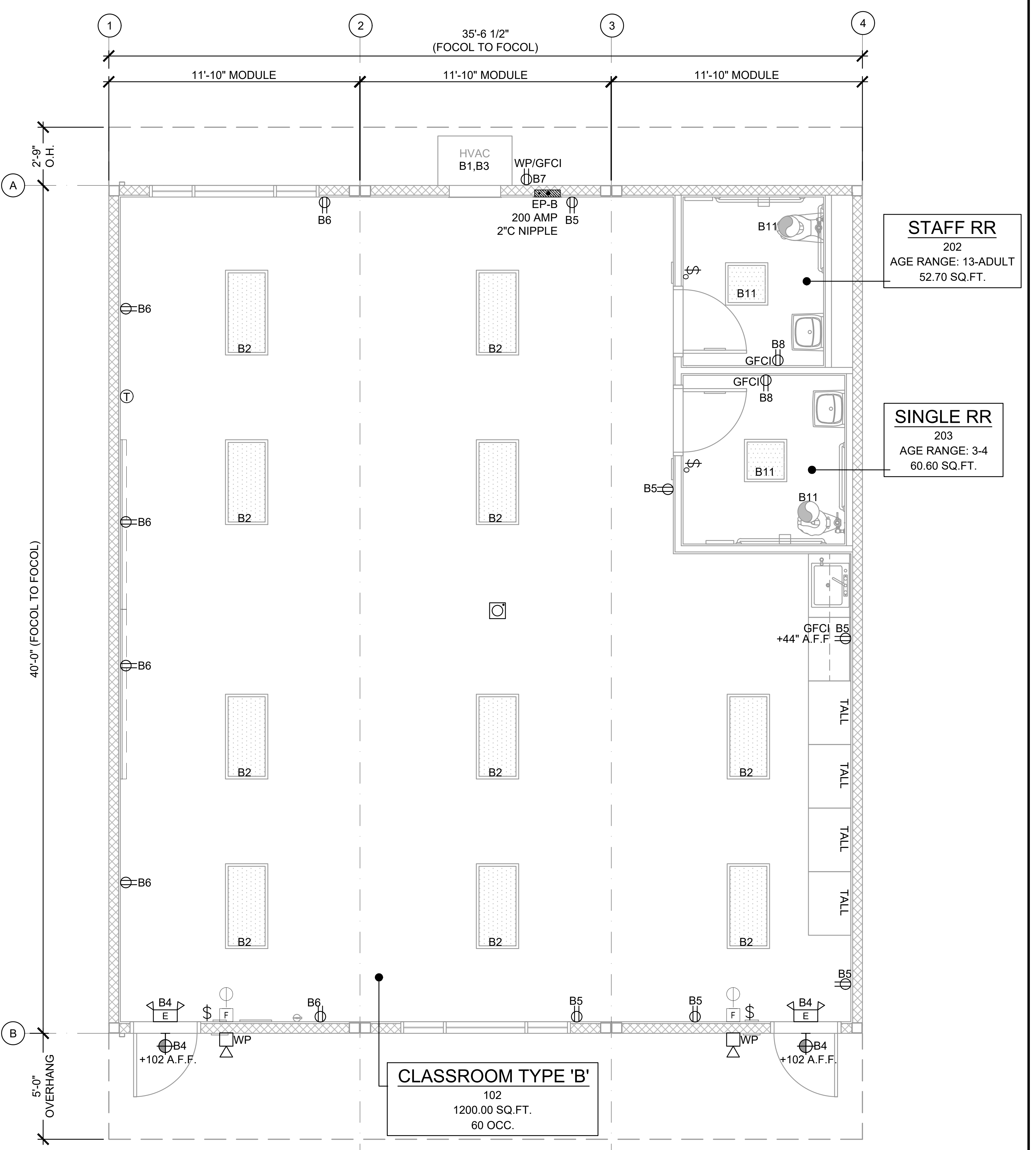

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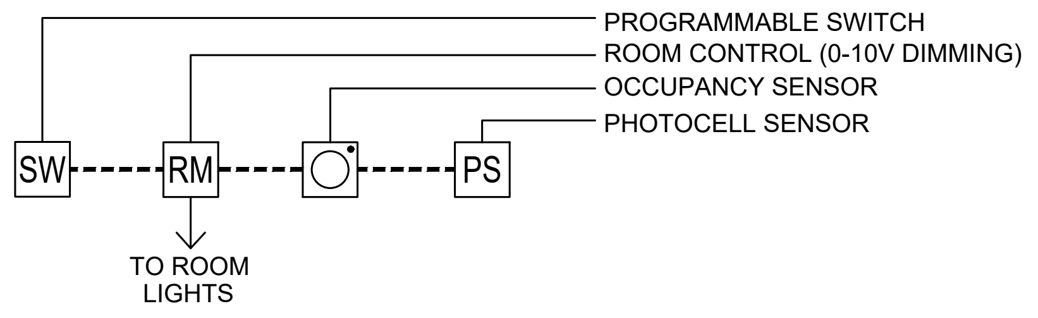
26-101-006
26-101-007
26-101-008
26-101-009
26-101-010
26-101-011

## ELECTRICAL PLAN

SCALE: 1/4" = 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.

NOT USED 2

ENERGY NOTES

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 TESTS SHALL BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE 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.
11. PRIMARY, SECONDARY DAYLIT AND SKYLIT ZONES SHALL BE SHOWN AT ALL SPECIFIC ROOM CONFIGURATION
12. REFER TO TS SHEET FOR PV REQUIREMENTS BY BUILDING SIZE AND CLIMATE ZONE

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).

GENERAL NOTES

| | |
|---|---|
| ▨ | ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH, U.O.N. |
| ⊕ | EXTERIOR LIGHT FIXTURE w/BATTERY BACKUP @ EACH DOOR, LED OR EQUAL (MAX 35W) - WHERE THERE ARE TWO OR MORE EXITS, A MINIMUM 90 MIN. BATTERY BACK-UP IS REQUIRED |
| ⏀ | UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N. |
| WP/GFCI ⏀ | WEATHER-PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N. |
| 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 |
| | CLOCK/SPEAKER COMBO - MOUNT @ +90" A.F.F. TO CENTERLINE - U.O.N. - DEVICE BY OTHERS |
| Ⓣ | THERMOSTAT - TOP OF BOX MOUNTED @ +46" A.F.F. |
| ◘ | 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 |
| E | EMERGENCY EXIT LIGHT, - WHERE THERE ARE TWO OR MORE EXITS, AN EXIT SIGN WITH INTEGRAL EMERGENCY LIGHTING W/MINIMUM 90-MINUTE BATTERY BACK-UP IS REQUIRED. |
| F | FIRE ALARM PULL STATION - OUTLET ONLY - PROVIDE (1) 4" SQ.BOX WITH SINGLE DEVICE RING AND COVER - TOP OF OPERATING HANDLE MOUNTED BETWEEN +42" TO +48" A.F.F. - DEVICE BY OTHERS |
| 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. |

STANDARD ELECTRICAL SYMBOLS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(11) 36'X40' BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-27

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REVISIONS
1
2
3
4

DRAWN BY: AV
SCALE: AS NOTED
DATE: 27/03/2026
PROJECT NO: 2003-26

SHEET TITLE:
ELECTRICAL PLAN

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.

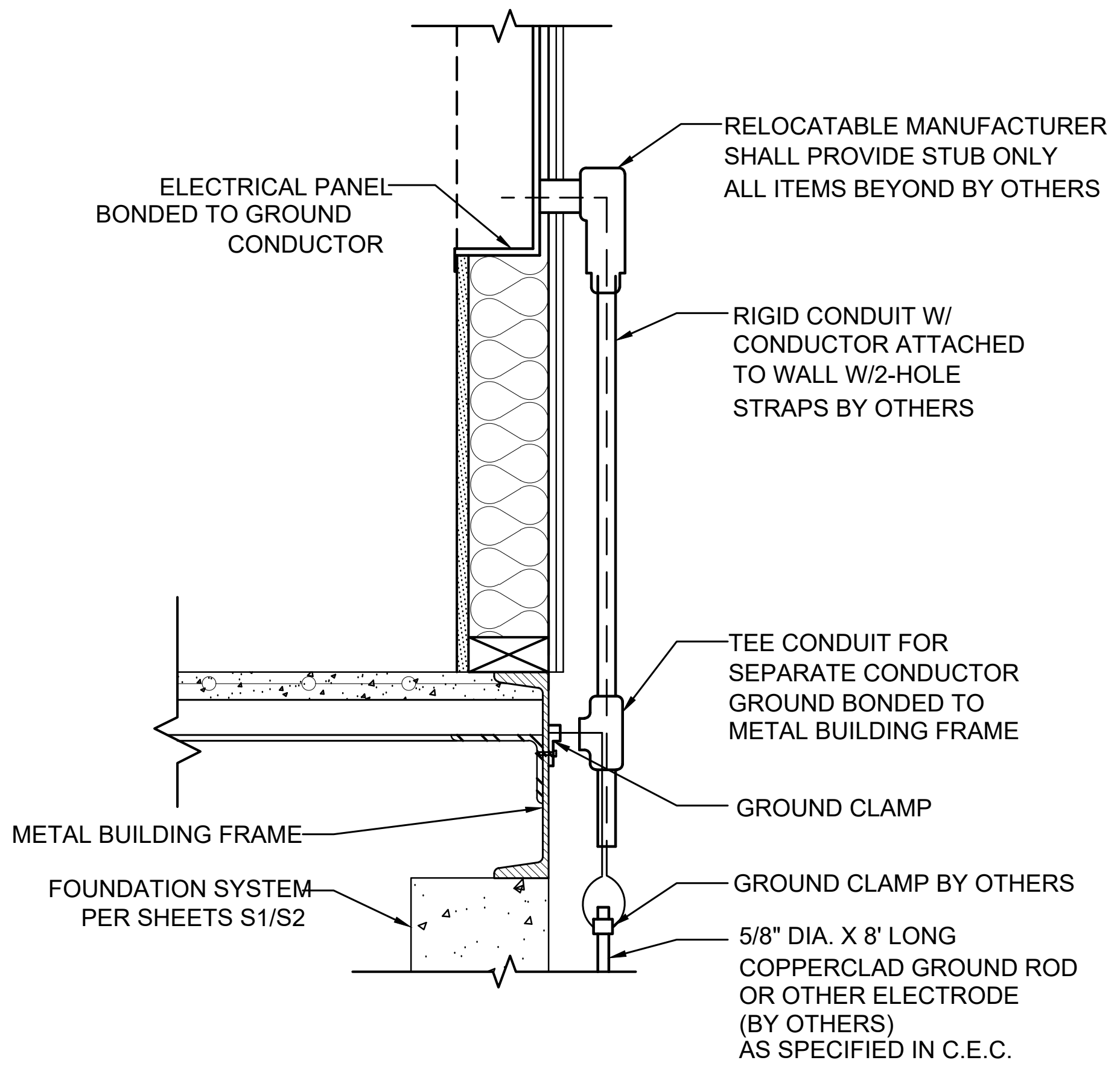
(7) PLATE ELECTRODES. EACH PLATE ELECTRODE SHALL EXPOSE NOT LESS THAN 0.186 M2 (2 FT2) OF SURFACE TO EXTERIOR SOIL. ELECTRODES OF BARE OR ELECTRICALLY CONDUCTIVE COATED IRON OR STEEL PLATES SHALL BE AT LEAST 6.4 MM (1⁄4 IN.) IN THICKNESS. SOLID, UNCOATED ELECTRODES OF NONFERROUS METAL SHALL BE AT LEAST 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.


ELECTRICAL PANEL BONDED TO GROUND CONDUCTOR
RELOCATABLE MANUFACTURER SHALL PROVIDE STUB ONLY ALL ITEMS BEYOND BY OTHERS
RIGID CONDUIT W/ CONDUCTOR ATTACHED TO WALL W/2-HOLE STRAPS BY OTHERS
TEE CONDUIT FOR SEPARATE CONDUCTOR GROUND BONDED TO METAL BUILDING FRAME
GROUND CLAMP
METAL BUILDING FRAME
FOUNDATION SYSTEM PER SHEETS S1/S2
GROUND CLAMP BY OTHERS
5/8" 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 - UNDERFLOOR OPTION 3

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

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Panel:** | EP-A | | | PHASE: | | VOLTS: | | MAIN (AMPS): | | | | BUSS (AMPS): | | | LOCATION: | | FEED: | | | | MOUNTING: |
| | | | | SINGLE | | 120/240 | | 200 | | | | 225 | | | INTERIOR | | OUT BACK - ABOVE FLOOR | | | | RECESSED |
| OBJECT DESCRIPTION | WATTS PER | QTY | LCL | WATTS | | BRK | POLE | WIRE SIZE | CKT # | LEG | | CKT # | WIRE SIZE | POLE | BRK | WATTS | | LCL | QTY | WATTS PER | OBJECT DESCRIPTION |
| | | | | A | B | | | | | A | B | | | | | A | B | | | | |
| HVAC | 7680 | 1 | X | 7680 | | 80 | 2 | #4 | 1 | X | | 2 | #12 | 1 | 20 | 500 | | | 10 | 50 | CLASSROOM LIGHTS |
| - | 7680 | - | X | | 7680 | - | - | - | 3 | | X | 4 | #12 | 1 | 20 | | 400 | | 4 | 100 | EMERGENCY LIGHTS |
| RECEPTS | 180 | 6 | | 1080 | | 20 | 1 | #12 | 5 | X | | 6 | #12 | 1 | 20 | 1080 | | | 6 | 180 | RECEPTS |
| WP/CFCI RECEPT | 180 | 1 | | | 180 | 20 | 1 | #12 | 7 | | X | 8 | #12 | 1 | 20 | | 360 | | 2 | 180 | GFCI |
| FIRE ALARM | 400 | 1 | | 400 | | 20 | 1 | #12 | 9 | X | | 10 | | | | 0 | | | | | |
| EXHAUST FANS/LIGHTS | 310 | 2 | | | 620 | 20 | 1 | #12 | 11 | | X | 12 | | | | | 0 | | | | |
| IDF | 800 | 1 | | 800 | | 20 | 1 | #12 | 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 | | | 9960 | 8480 | | | | | | | | | | | 1580 | 760 | LEG TOTALS | | | |
| LCL=3840+20780=24620 | | | | | | | | | | | | | | | | | | | | | |
| TOTAL WATTS: | 24620 | | | | | | | LEG BALANCE: | | 11.1% | | | | | | | | | TOTAL AMPS: | | 102.58 |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Panel:** | EP-B | | | PHASE: | | VOLTS: | | MAIN (AMPS): | | | | BUSS (AMPS): | | | LOCATION: | | FEED: | | | | MOUNTING: |
| | | | | SINGLE | | 120/240 | | 200 | | | | 225 | | | INTERIOR | | OUT BACK - ABOVE FLOOR | | | | RECESSED |
| OBJECT DESCRIPTION | WATTS PER | QTY | LCL | WATTS | | BRK | POLE | WIRE SIZE | CKT # | LEG | | CKT # | WIRE SIZE | POLE | BRK | WATTS | | LCL | QTY | WATTS PER | OBJECT DESCRIPTION |
| | | | | A | B | | | | | A | B | | | | | A | B | | | | |
| HVAC | 7680 | 1 | X | 7680 | | 80 | 2 | #4 | 1 | X | | 2 | #12 | 1 | 20 | 500 | | | 10 | 50 | CLASSROOM LIGHTS |
| - | 7680 | - | X | | 7680 | - | - | - | 3 | | X | 4 | #12 | 1 | 20 | | 400 | | 4 | 100 | EMERGENCY LIGHTS |
| RECEPTS | 180 | 6 | | 1080 | | 20 | 1 | #12 | 5 | X | | 6 | #12 | 1 | 20 | 1080 | | | 6 | 180 | RECEPTS |
| WP/CFCI RECEPT | 180 | 1 | | | 180 | 20 | 1 | #12 | 7 | | X | 8 | #12 | 1 | 20 | | 360 | | 2 | 180 | GFCI |
| FIRE ALARM | 400 | 1 | | 400 | | 20 | 1 | #12 | 9 | X | | 10 | | | | 0 | | | | | |
| EXHAUST FANS/LIGHTS | 310 | 2 | | | 620 | 20 | 1 | #12 | 11 | | X | 12 | | | | | 0 | | | | |
| IDF | 800 | 1 | | 800 | | 20 | 1 | #12 | 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 | | | 9960 | 8480 | | | | | | | | | | | 1580 | 760 | LEG TOTALS | | | |
| LCL=3840+20780=24620 | | | | | | | | | | | | | | | | | | | | | |
| TOTAL WATTS: | 24620 | | | | | | | LEG BALANCE: | | 11.1% | | | | | | | | | TOTAL AMPS: | | 102.58 |

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 & DSA IR PC-2 SECTION 1.18. 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: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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

24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)

SITE SPECIFIC PROJECT NAME

STOCKPILE
MOBILE MODULAR
(11) 36'X40' BUILDINGS

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

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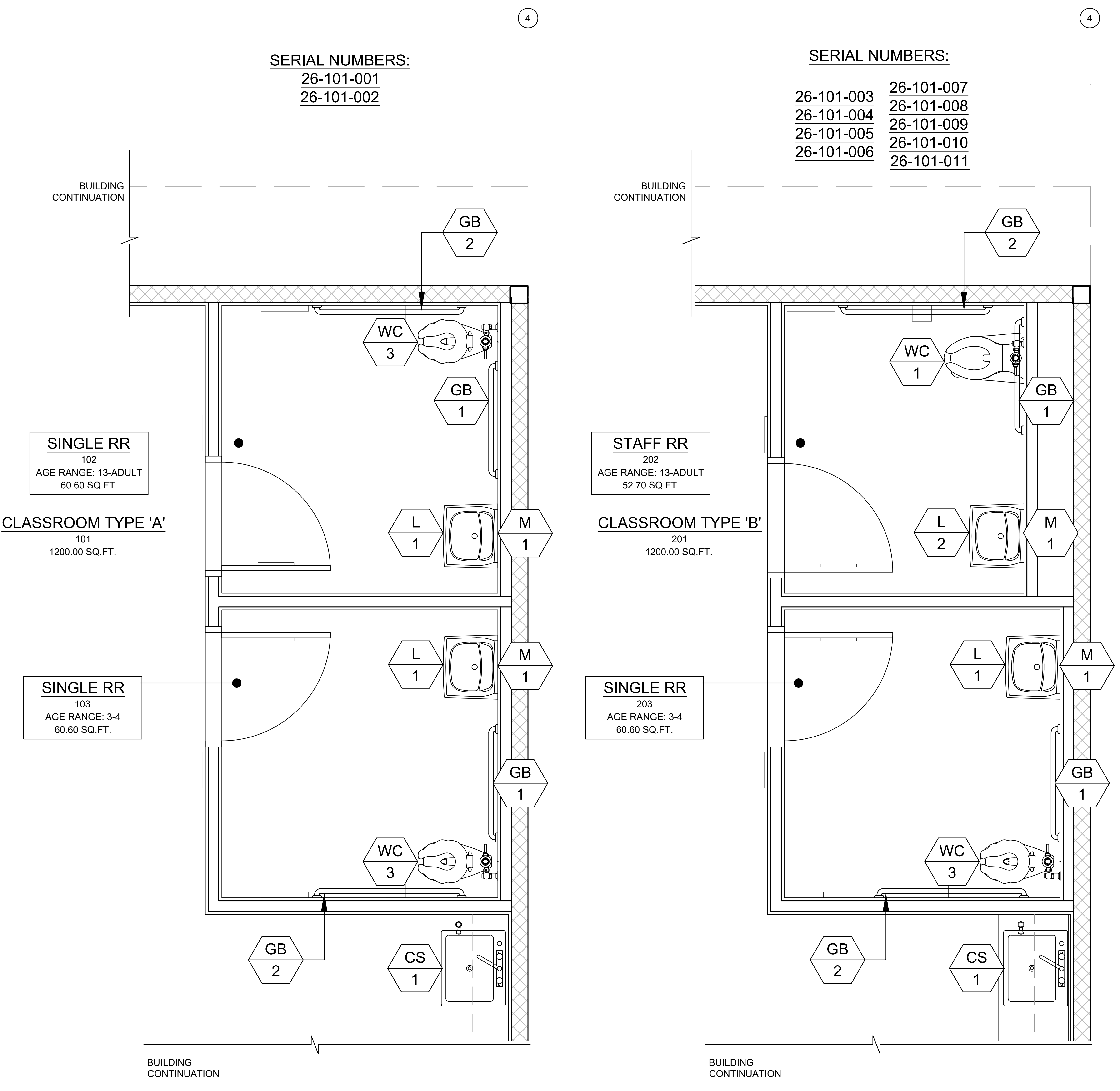
|---|---|
| DRAWN BY: | AV |
| SCALE: | AS NOTED |
| DATE: | 27/03/2026 |
| PROJECT NO: | 2003-26 |

SHEET TITLE:

ELECTRICAL NOTES & DETAILS

SHEET NUMBER:

E1.2



## PLUMBING PLAN

SCALE: 1/2" = 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 1 [2]<br>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)<br>#3128.001 FOR BOWL<br>#4019.228 LEFT TANK<br>#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<br>ACC<br>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<br>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 PROE20-1-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 w/ BUBBLER | DAYTON MODEL D12521 25"x21-1/4" SINGLE BOWL SINK OR EQUAL W/ HALSEY TAYLOR INTERIOR CLASS BUBBLER - 2507A - COUNTER MOUNTED (BASE AMS SPEC) | | | | 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 VRCTLDDWSK WALL MOUNT WATER FOUNTAIN w/BOTTLE FILLER OR EQUAL | | | | PROVIDE SHUT OFF VALVE IN ACCESS PANEL AND TIME CONTROL |
| HB 1 | HOSE BIBB | STANDARD HOSE BIBB WOODFORD MODEL B75CH 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.

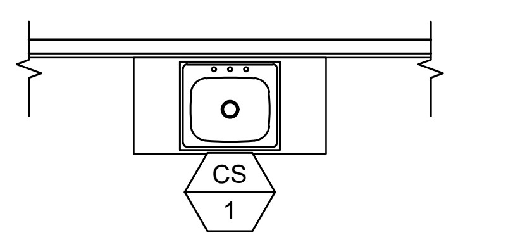
## PLUMBING FIXTURE SCHEDULE

## NOT USED

6

## NOT USED

7



## CLASSROOM SINK PLAN

SCALE: 1/4" = 1'-0" 8

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, 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: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM

SITE SPECIFIC PROJECT NAME
STOCKPILE
MOBILE MODULAR
(11) 36'X40' BUILDINGS

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.

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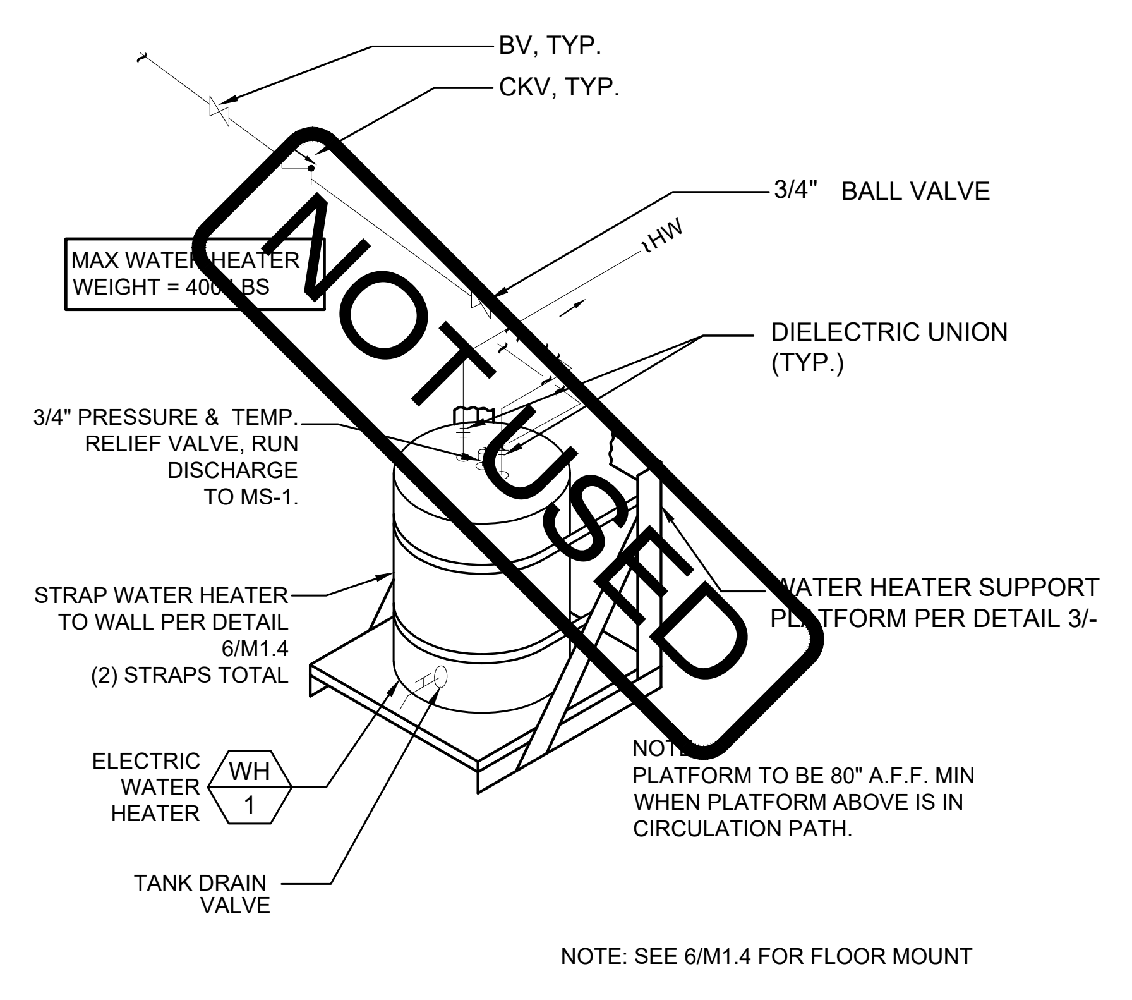
1
2
3
4

| | |
|---|---|
| DRAWN BY: | AV |
| SCALE: | AS NOTED |
| DATE: | 27/03/2026 |
| PROJECT NO: | 2003-26 |

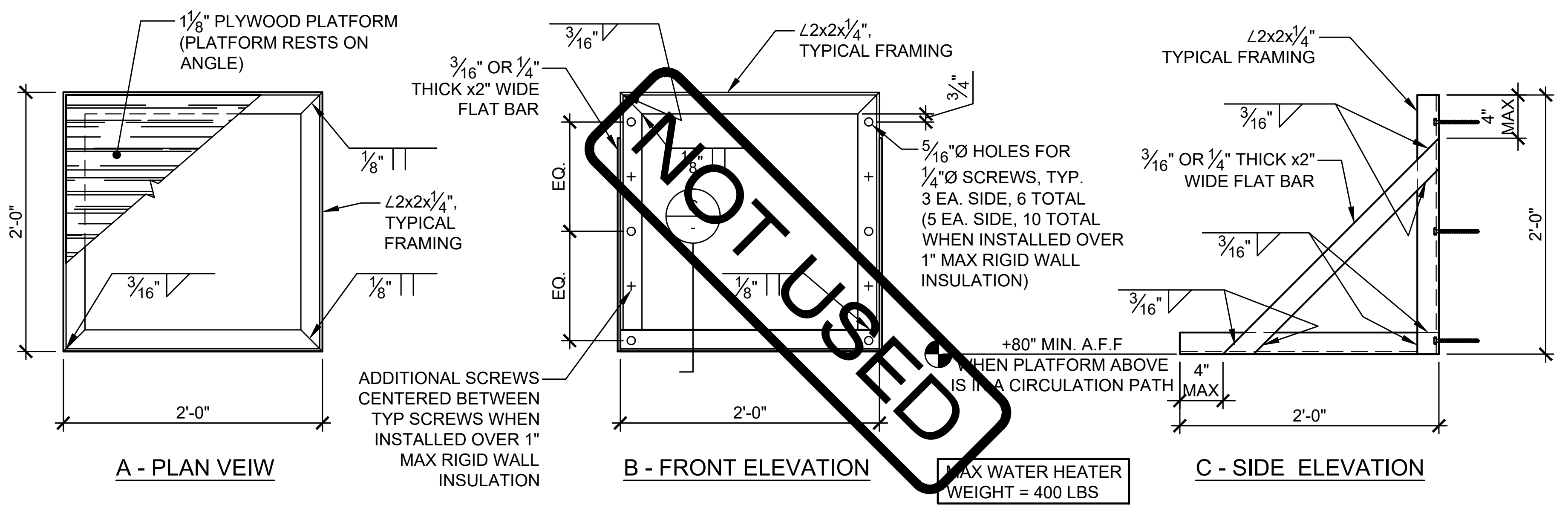
SHEET TITLE:
RESTROOM OPTIONS
PLUMBING PLAN
& FIXTURE SCHEDULE

SHEET NUMBER:
P1.0


NOT USED
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
NOTE: PLATFORM TO BE 80" A.F.F. MIN WHEN PLATFORM ABOVE IS IN CIRCULATION PATH.
TANK DRAIN VALVE
NOTE: SEE 6/M1.4 FOR FLOOR MOUNT

## WATER HEATER SUPPORT DETAIL

NOT TO SCALE 1

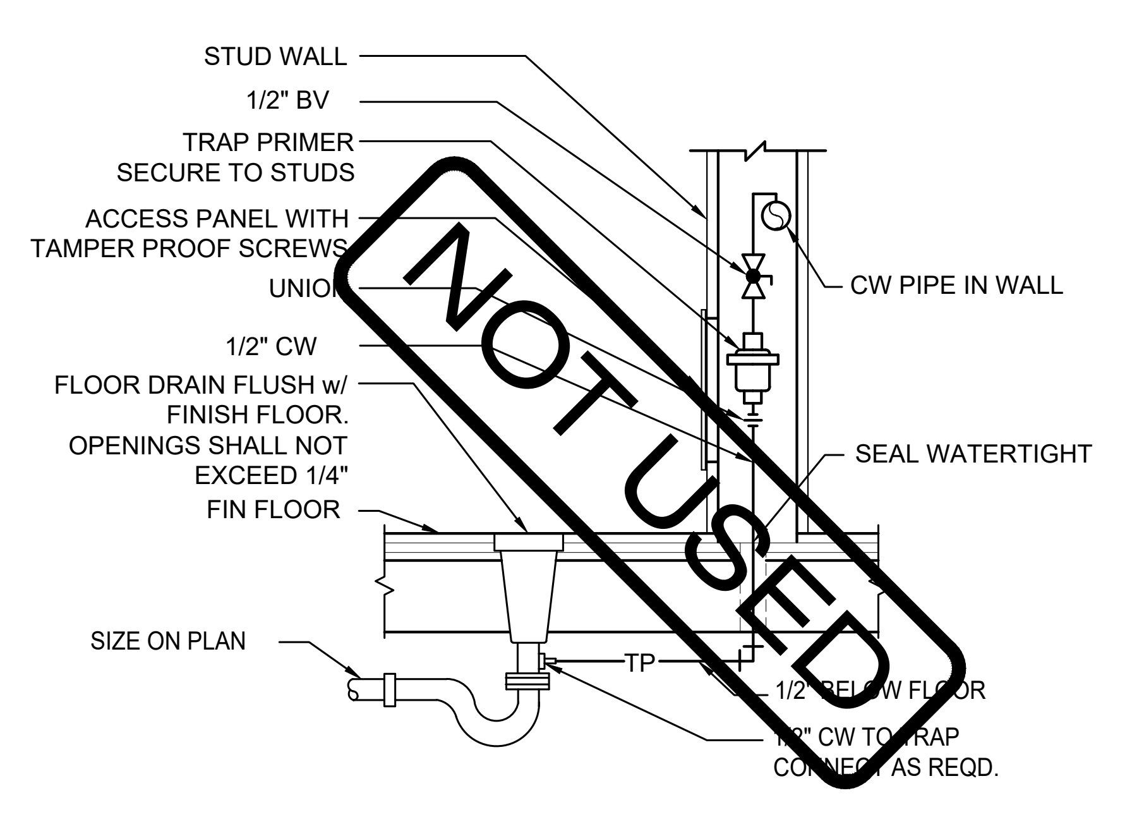

NOT USED
1⅛" PLYWOOD PLATFORM (PLATFORM RESTS ON ANGLE)
3/16" OR ¼" THICK x2" WIDE FLAT BAR
3/16"
∠2x2x¼", TYPICAL FRAMING
⅛"
5/16"Ø HOLES FOR ¼"Ø SCREWS, TYP. 3 EA. SIDE, 6 TOTAL (5 EA. SIDE, 10 TOTAL WHEN INSTALLED OVER 1" MAX RIGID WALL INSULATION)
3/16" OR ¼" THICK x2" WIDE FLAT BAR
EQ.
2'-0"
+80" MIN. A.F.F WHEN PLATFORM ABOVE IS IN A CIRCULATION PATH
4" MAX
ADDITIONAL SCREWS CENTERED BETWEEN TYP SCREWS WHEN INSTALLED OVER 1" MAX RIGID WALL INSULATION
A - PLAN VEIW
B - FRONT ELEVATION
C - SIDE ELEVATION
MAX WATER HEATER WEIGHT = 400 LBS

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.

## WATER HEATER PLATFORM DETAIL

NOT TO SCALE 3

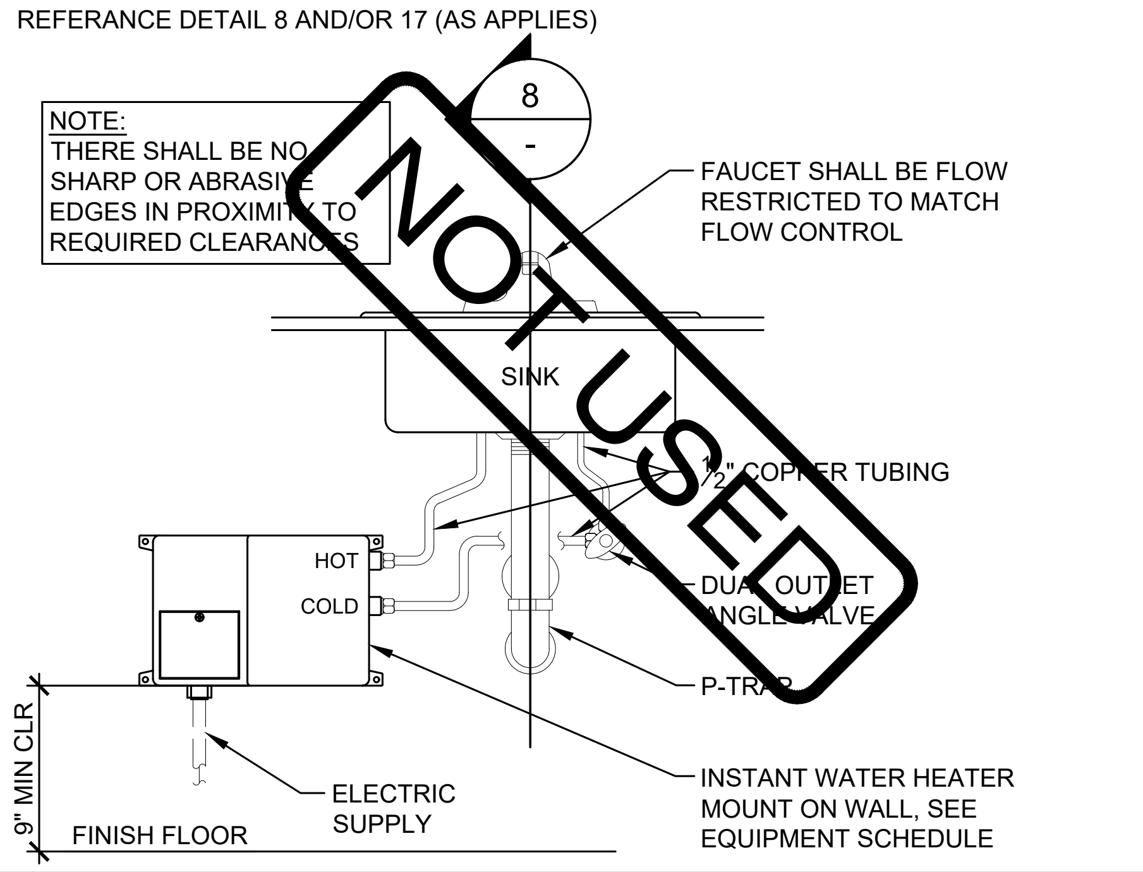

NOT USED
STUD WALL
1/2" BV
TRAP PRIMER SECURE TO STUDS
ACCESS PANEL WITH TAMPER PROOF SCREWS
UNION
CW PIPE IN WALL
1/2" CW
FLOOR DRAIN FLUSH w/ FINISH FLOOR. OPENINGS SHALL NOT EXCEED 1/4"
FIN FLOOR
SEAL WATERTIGHT
SIZE ON PLAN
TP
1/2" BELOW FLOOR
1/2" CW TO TRAP CONNECT AS REQD.

## TRAP PRIMER DETAIL

NOT TO SCALE 6

NOTE:
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)

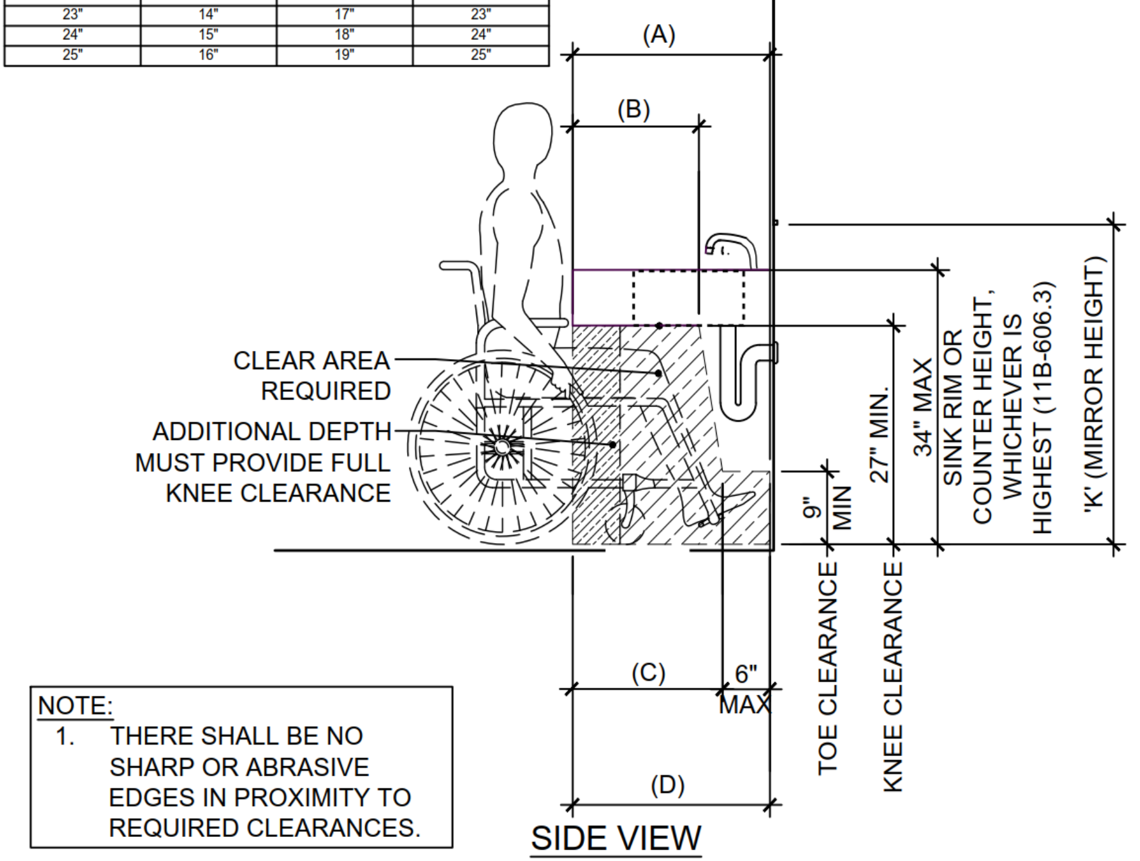
NOTE:
THERE SHALL BE NO SHARP OR ABRASIVE EDGES IN PROXIMITY TO REQUIRED CLEARANCES


NOT USED
8
-
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
INSTANT WATER HEATER MOUNT ON WALL, SEE EQUIPMENT SCHEDULE

## INSTANT WATER HEATER DETAIL

NOT TO SCALE 7

| 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)
(C)
6" MAX
(D)
TOE CLEARANCE
KNEE CLEARANCE
SIDE VIEW

NOTE:
1. THERE SHALL BE NO SHARP OR ABRASIVE EDGES IN PROXIMITY TO REQUIRED CLEARANCES.

## ACCESSIBLE SINK CABINET

NOT TO SCALE 8

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" | |

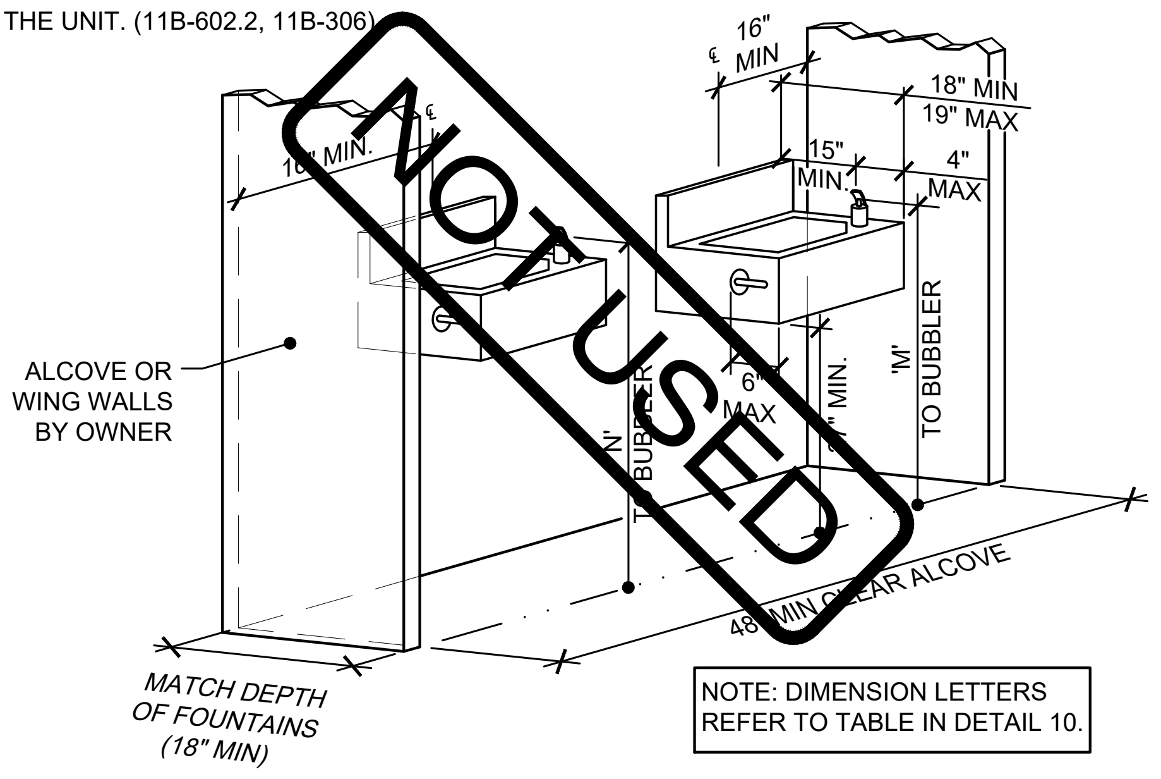
NOTES:
1. THIS TABLE AND RELATED DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF CALIF. TITLE 24 (2022 C.B.C. SECTION 11B-601) AND IS SHOWN HERE ONLY AS AN AID FOR CONSTRUCTION AND INSTALLATION.
2. ACCESSORIES ARE NOT IN MANUFACTURER'S SCOPE OF WORK.
3. DIMENSIONS GIVEN ARE FROM FACE OF FINISH, UNLESS 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

## ACCESSIBLE HEIGHTS TABLE

10

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)

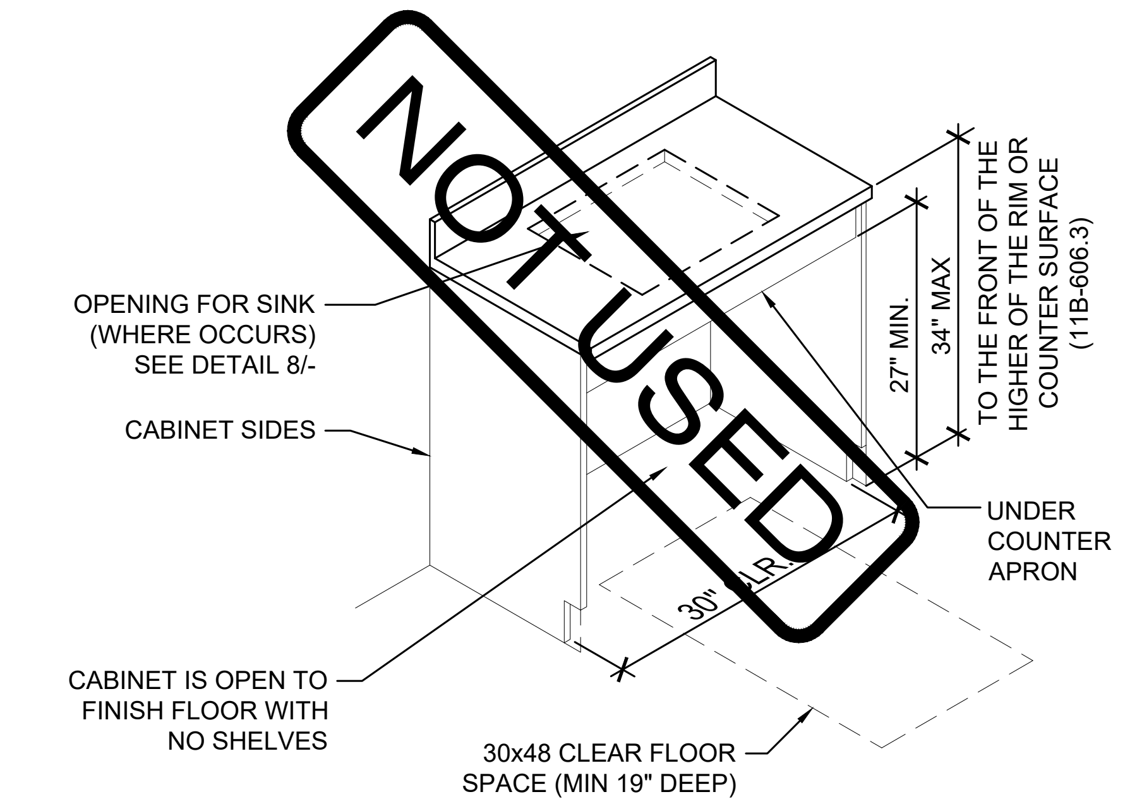


NOTE: DIMENSION LETTERS REFER TO TABLE IN DETAIL 10.

## HI-LO DRINKING FOUNTAIN

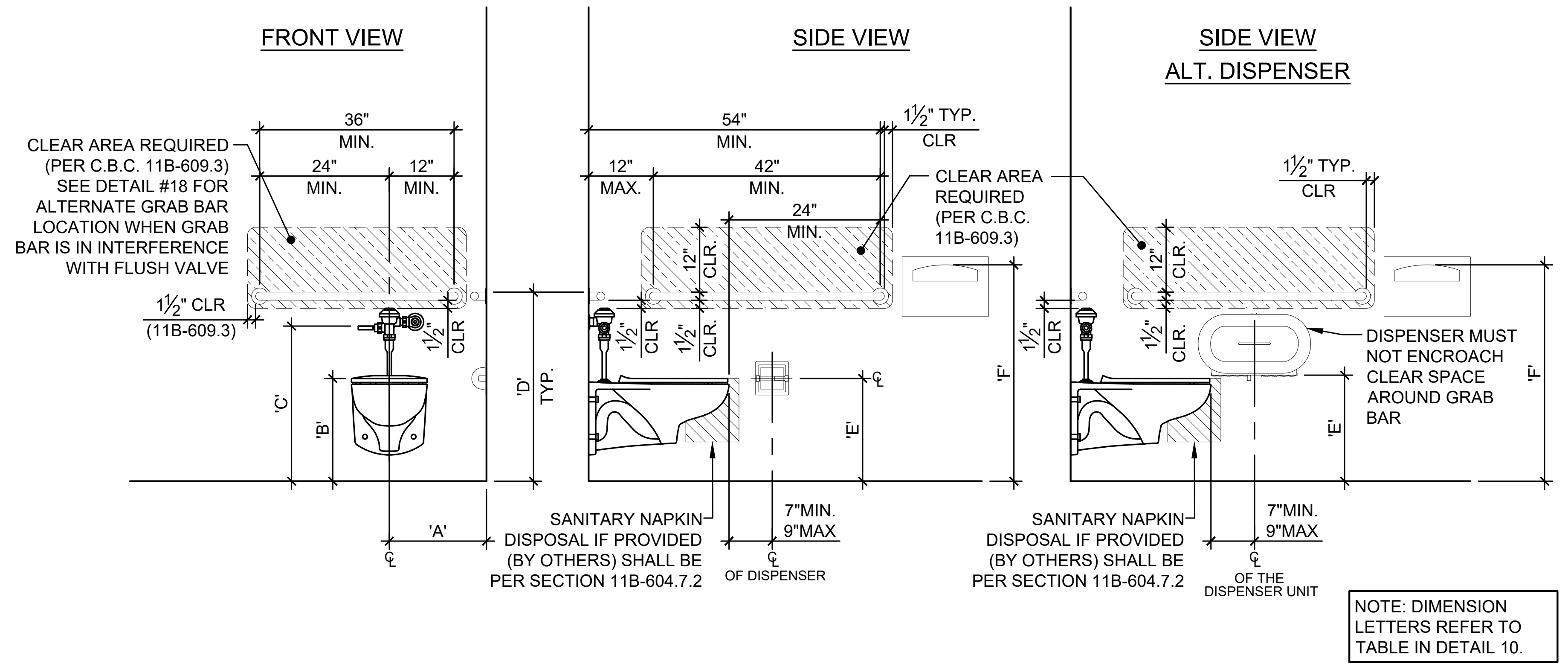
NOT TO SCALE 11

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


NOT USED
OPENING FOR SINK (WHERE OCCURS) SEE DETAIL 8/-
CABINET SIDES
27" MIN.
34" MAX
TO THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE (11B-606.3)
UNDER COUNTER APRON
CABINET IS OPEN TO FINISH FLOOR WITH NO SHELVES
30x48 CLEAR FLOOR SPACE (MIN 19" DEEP)

## ACCESSIBLE CABINET DETAIL

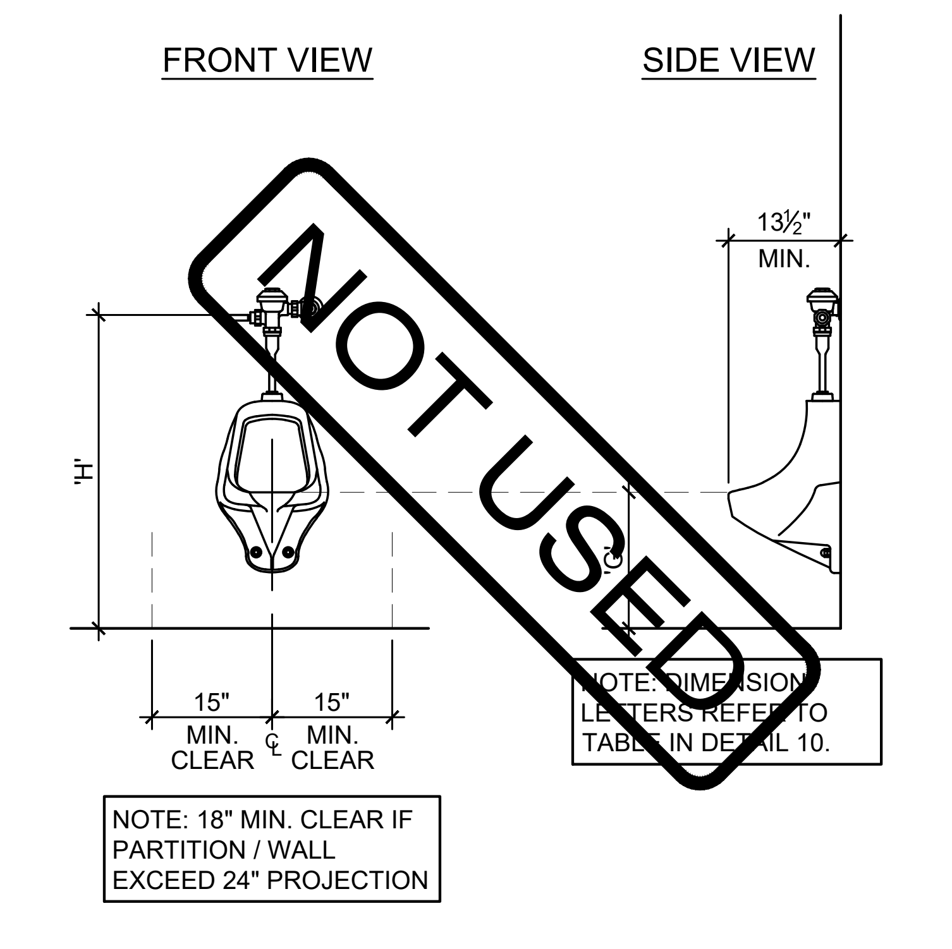
NOT TO SCALE 12


FRONT VIEW
SIDE VIEW
SIDE VIEW ALT. DISPENSER
36" MIN.
24" MIN.
12" MIN.
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)
54" MIN.
42" MIN.
12" MAX.
1½" TYP. CLR
CLEAR AREA REQUIRED (PER C.B.C. 11B-609.3)
'C'
'B'
'D'
'A'
'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 TOILET AND ACCESSORIES (ADULT)

SCALE: 1/2" = 1'-0" 14

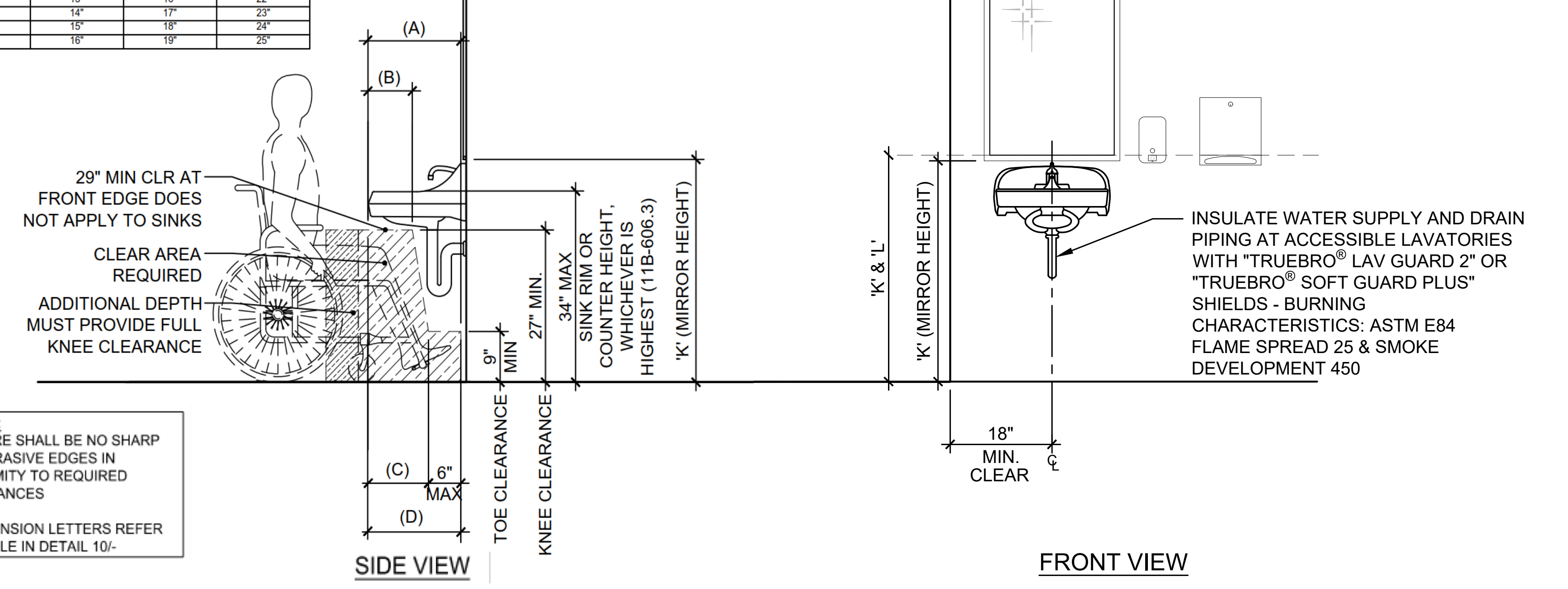


NOTE: 18" MIN. CLEAR IF PARTITION / WALL EXCEED 24" PROJECTION

## ACCESSIBLE URINAL

SCALE: 1/2" = 1'-0" 15

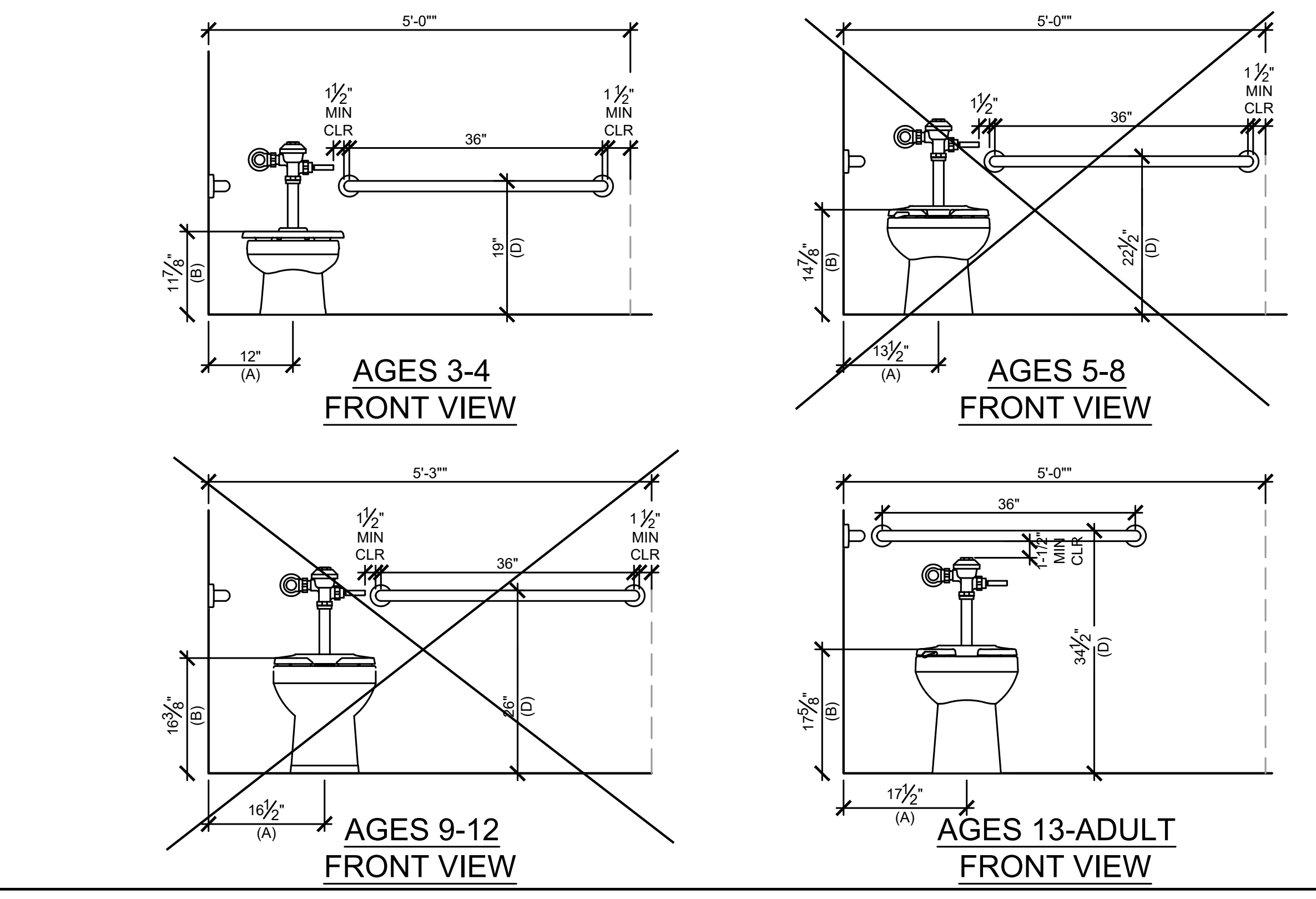
| DIM 'A' | DIM 'B' | DIM 'C' | DIM 'D' |
|---|---|---|---|
| 17" | 8" | 11" | 17" |
| 18" | 9" | 12" | 18" |
| 19" | 10" | 13" | 19" |
| 20" | 11" | 14" | 20" |
| 21" | 12" | 15" | 21" |
| 22" | 13" | 16" | 22" |
| 23" | 14" | 17" | 23" |
| 24" | 15" | 18" | 24" |
| 25" | 16" | 19" | 25" |


(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)
(C)
6" MAX
(D)
TOE CLEARANCE
KNEE CLEARANCE
SIDE VIEW
'K' & 'L'
'K' (MIRROR HEIGHT)
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
18" MIN. CLEAR
FRONT 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/-

## LAVATORY & ACCESSORIES

SCALE: 1/2" = 1'-0" 17



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

## ALTERNATE GRAB BAR SHIFT DETAIL

SCALE: 1/2" = 1'-0" 18

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).

## PLUMBING NOTES

19

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-124133 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 4/08/2026

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
24' x 40' THRU 120' x 40'
STANDARD MODULAR BUILDING
(LOW SEISMIC)
FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

~~APPROVED~~
~~DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122050 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☑~~
~~DATE: 12/11/2023~~

☐ **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
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4

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-22

SHEET TITLE:
PLUMBING DETAILS
&
ACCESSIBLE DETAILS

SHEET NUMBER:
P2.0