

ABBREVIATIONS LIST											
A:			E:			H:			P:		
&			AND			HOSE BIB			PARTITION		
A.B.			ANCHOR BOLT			H.C.			PANIC BAR		
A.C.			ASPHALT CONCRETE			H.D.W.D.			PROPERTY LINE		
A/C			AIR CONDITIONING			H.D.B.D.			PLASTIC LAMINATE		
ACC.			ACCESSIBLE			H.D.W.E.			PLASTER		
ACOUST.			ACOUSTICAL			H.M.			PLYWOOD		
A.A.			AREA DRAIN			HORIZ.			PRESSED METAL		
ADJ.			ADJUSTABLE			HR.			POINT OF CONNECTION		
A.F.F.			ABOVE FINISH FLOOR			HT.			PAIR		
AGGR.			AGGREGATE			I-J-K-L:			PROP.		
ALUM.			ALUMINUM			INSIDE DIAMETER			P.O.C.		
APPROX.			APPROXIMATE			I.E.			P.O.S.		
ARCH.			ARCHITECT (URAL)			ISA			P.T.		
B:			E:			INSUL.			Q-R		
B&B			BOARD AND BATTEN			INT.			QUARRY TILE		
BD.			BOARD			J.B.			R.		
BLDG.			BUILDING			J.H.			RAD.		
BLK'G.			BLOCKING			J.T.			R.D.		
BM.			BEAM			LAB.			R.E.		
B.M.			BENCH MARK			LAM.			REBAR		
BTMM.			BOTTOM			LAV.			REF.		
B.U.R.			BUILT UP ROOFING			L.T.			REQ'D.		
C:			F:			L.H.			R.M.		
C.B.			CATCH BASIN			M:			R.O.		
C.I.			CAST IRON			MAX.			R.W.D.		
C.J.			CONSTRUCTION JOINT			F.A.			R.W.L.		
CLF			CHAIN LINK FENCE			F.B.			S.		
CLG.			CEILING			F.C.			S.B.		
CLR.			CLEAR			F.D.			S.D.		
CLK.G.			CAULKING			FDN.			SEC.		
CNTR.			COUNTER			F.F.			S.C.		
C.O.			CLEAN OUT			F.F.			SCHED.		
COL.			COLUMN			F.O.F.			SHT.		
CONC.			CONCRETE			F.O.W.			SHTG.		
COND.			CONDITION			F.P.			SIM.		
CONST.			CONSTRUCTION			F.R.P.			S.M.S.		
CONT.			CONTINUOUS			F.O.S.			SPEC'S.		
C.O.T.G.			CLEAN OUT TO GRADE			F.S.D.			SQ.		
CA.			CONTROL POINT			FTG.			S.S.T.L.		
CTSK.			COUNTERSUNK			F.V.			STD.		
D:			G:			OBS.			STL.		
DBL.			DOUBLE			O.C.			STND.		
D.F.			DRINKING FOUNTAIN			O.D.			STRUCT.		
DEPT.			DEPARTMENT			O.H.			S.T.S.M.S.		
DTL.			DETAIL			OPNG.			STD.		
D.I.			DROP INLET			OPP.			STL.		
DIAG.			DIAGONAL			O/			STEEL		
DIM.			DIMENSION			OBS.			STND.		
DN.			DOWN			O.C.			STND.		
DR.			DOOR			O.D.			STND.		
D.S.			DOWN SPOUT			O.H.			STND.		
D.S.P.			DRY STANDPIPE			O.PNG.			STND.		
DWG.			DRAWING			O.PP.			STND.		

SYMBOLS LEGEND											
			CONCRETE						WOOD FRAMING (CONT. MEMBER)		
			CONCRETE BLOCK						WOOD FRAMING (BLOCKING)		
			A.C. PAVING						WOOD MEMBER (FINISHED)		
			CERAMIC TILE OR BRICK						INSULATION		
			SAND MORTAR OR PLASTER						ROOM NUMBER		
			AGGREGATE						WINDOW TYPE		
			EARTH						DOOR NUMBER		
			METAL						GRID LINE/NUMBER		
			PLYWOOD						GRID CENTER LINE/NUMBER		
			GYPSUM BOARD						EQUIPMENT NUMBER		
			GLASS						PARTITION TYPE		
			SECTION NUMBER						MATCH LINE		
			REVISION NUMBER						DATUM, WORK OR CONTROL NUMBER		
			ANGLE						DIAMETER OR ROUND		
			PERPENDICULAR						POUND OR NUMBER		
			CENTERLINE						PLATE OR PROPERTY LINE		
			KEYNOTE						KEYNOTE		

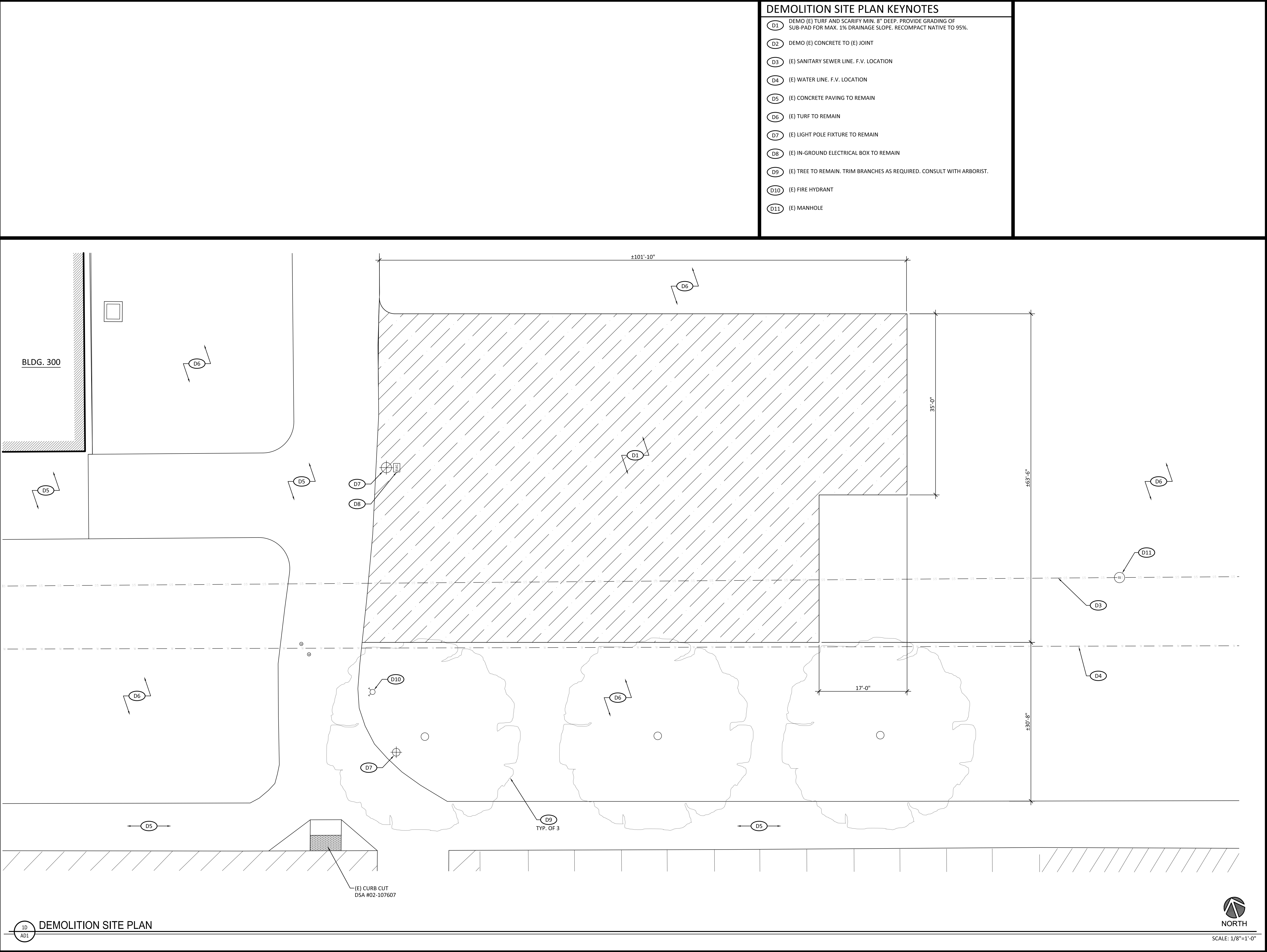
DEFERRED APPROVAL											
1. NONE											
NOTE											
THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE CONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS.											
SHOULD ANY CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE THESE DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED BY DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.											
INSPECTOR											
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. CLASS 3 INSPECTOR REQUIRED.											

6/10/2020 4:06 PM MARISEAO  
E:\SOLANO CC\20016 EARLY COLLEGE PORTABLES\00\_SECP\_A0-COVER SHEET.DWG

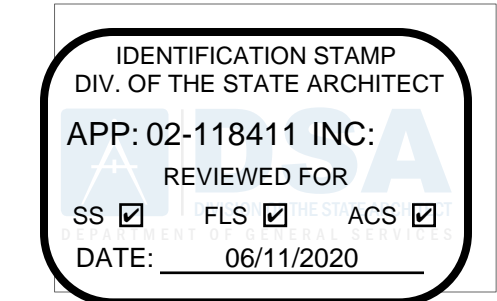
SOLANO COMMUNITY COLLEGE EARLY COLLEGE HIGH SCHOOL PORTABLES 4000 SUISUN VALLEY ROAD FAIRFIELD, CA 94534							
OWNER		ARCHITECT		ELECTRICAL ENGINEER		BLDG. MANUFACTURER	
SOLANO COMMUNITY COLLEGE DISTRICT 4000 SUISUN VALLEY ROAD FAIRFIELD, CA 94534		HMR ARCHITECTS 2130 21st STREET SACRAMENTO CA 95818 CONTACT: KIM DEMONGEY OFFICE: (916) 736-2724 E-MAIL: kimd@hmrarchitects.com		SACRAMENTO ENGINEERING CONSULTANTS 10555 OLD PLACERVILLE ROAD SACRAMENTO CA 95827 (916) 368-4468 CONTACT: JOHN DRENTH EMAIL: drenth@saceng.com		GLOBAL MODULAR INCORPORATED 450 COMMERCE AVENUE ATWATER, CA 95301 (209) 676-8029	
GENERAL NOTES				SCOPE OF WORK			
<div>1. ALL WORK IS NEW UNLESS SPECIFICALLY NOTED AS EXISTING. ALL WORK SHALL BE BY G.C. UNLESS SPECIFICALLY NOTED BY OWNER, BY OTHERS, OR BY N.I.C.</div> <div>2. CONTRACTOR SHALL VISIT THE SITE PRIOR TO HIS BID TO DETERMINE ACTUAL JOB SITE CONDITIONS AND REQUIRED EXTENT OF WORK FOR THIS PROJECT.</div> <div>3. CONTRACTOR SHALL VERIFY SOLANO COMMUNITY COLLEGE DISTRICT (S.C.C.D.) REQUIREMENTS FOR WORK HOURS, ETC. WITH S.C.C.D. PROJECT MANAGER PRIOR TO BIDDING AND COMMENCEMENT OF WORK. CONTRACTOR SHALL COMPLY WITH ALL S.C.C.D. REQUIREMENTS.</div> <div>4. CONTRACTOR SHALL PROVIDE A JOB SITE PHONE &amp; EMAIL WITHIN 5 WORKING DAYS AND INFORM ARCHITECT OF PHONE NUMBER AT CONSTRUCTION KICK-OFF MEETING. G.C. SHALL MAINTAIN A COMPUTER W/ EMAIL CAPABILITIES ON SITE AT ALL TIMES.</div> <div>5. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND NOTING ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS PRIOR TO BIDDING THE PROJECT. CONTRACTOR SHALL CONTACT ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING WITH RELATED WORK. OTHERWISE, CONTRACTOR IS RESPONSIBLE FOR CORRECTIONS AT NO EXTRA COST TO OWNER.</div> <div>6. G.C. SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ALL FINISH MATERIALS &amp; EQUIPMENT AS SPECIFIED HEREIN. ANY DEVIATION IN COST DUE TO SHIPPING DELAYS, MATERIAL UPGRADES, SHALL BE BORN BY THE G.C. ALL MATERIALS NOT IDENTIFIED AS PROBLEMS PRIOR TO BID, SHALL BE THE RESPONSIBILITY OF THE G.C. TO SUPPLY AS NOTED ON THE BID FORM.</div> <div>7. ALL DEMOLITION IS INCLUDED IN THE BASE BID. CONTRACTOR SHALL PROVIDE ALL DEMOLITION NECESSARY TO COMPLETE ALL NEW WORK AS INDICATED ON THE PLANS.</div> <div>8. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL ADJACENT WORK AND SHALL COORDINATE WITH ALL OTHER TRADES SO AS TO FACILITATE THE GENERAL PROGRESS OF THE WORK. EACH TRADE SHALL AFFORD ALL OTHER TRADES EVERY REASONABLE OPPORTUNITY FOR THE INSTALLATION OF THEIR WORK AND FOR THE STORAGE OF THEIR MATERIAL.</div> <div>9. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND QUANTITIES OF ITEMS TO BE REMOVED/REPLACED OR TO BE REINSTALLED PRIOR TO SUBMITTAL OF BID. G.C. SHALL NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES PRIOR TO THE BID DUE DATE FOR FURTHER CLARIFICATION - AS DEFINED IN BID INSTRUCTIONS.</div> <div>10. G.C. WILL BE HELD RESPONSIBLE FOR COMPLETION OF ENTIRE WORK IN A MANNER/INTENT FOR THIS TYPE OF PROJECT REGARDLESS OF QUANTITIES SHOWN IN PLANS</div> <div>11. ANY EXISTING ITEMS SHOWN WITHOUT NOTATION FOR REMOVAL SHALL BE PROTECTED THROUGHOUT DEMOLITION AND RENOVATIONS. G.C. WILL BE REQUIRED TO REPLACE ANY/ALL ITEMS TO REMAIN THAT ARE DAMAGED BY WORK AT NO ADDITIONAL COST TO S.C.C.D. AND ALSO AT A QUALITY LEVEL EQUAL TO OR EXCEEDING THE ORIGINAL CONDITIONS.</div> <div>12. SEE ALSO ENGINEERED DRAWINGS FOR FULL EXTENT OF THE DEMOLITION WORK.</div> <div>13. ITEMS SHOWN TO BE REMOVED SHALL BE DISPOSED OF PROPERLY BY THE G.C. UNLESS OTHERWISE NOTED.</div>				<div>1. INSTALL (2) 36x40 MODULAR BUILDINGS FOR GENERAL EDUCATION CLASSROOMS.</div> <div>2. INSTALLATION OF ALL UTILITIES TO SERVE THE NEW BUILDINGS.</div> <div>3. PROVIDE A/C AND CONCRETE PAVING.</div>			
PROJECT CODE DATA				CONSTRUCTION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE REGULATIONS, INCLUDING THE FOLLOWING:  2019 CALIFORNIA ADMINISTRATIVE CODE, CCR, TITLE 24, PART 1 2019 CALIFORNIA BUILDING CODE, VOL. 1 & 2, CCR, TITLE 24, PART 2 2019 CALIFORNIA RESIDENTIAL CODE, CCR, TITLE 24, PART 2.5 2019 CALIFORNIA ELECTRICAL CODE, CCR, TITLE 24, PART 3 2019 CALIFORNIA MECHANICAL CODE, CCR, TITLE 24, PART 4 2019 CALIFORNIA PLUMBING CODE, CCR, TITLE 24, PART 5 2019 CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6 2019 CALIFORNIA FIRE CODE, CCR, TITLE 24, PART 9 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, CCR, TITLE 24, PART 11 2019 CALIFORNIA EXISTING BUILDING CODE, CCR, TITLE 24, PART 10 STATE FIRE MARSHAL REGULATIONS, CCR, TITLE 19, PUBLIC SAFETY  NFPA 13: INSTALLATION OF SPRINKLER SYSTEMS, 2016 EDITION NFPA 14: INSTALLATION OF STANDPIPE & HOSE SYSTEMS, 2016 EDITION NFPA 17: DRY CHEMICAL EXTINGUISHING SYSTEMS, 2017 EDITION NFPA 20: STATIONARY PUMPS FOR FIRE PROTECTION, 2016 EDITION NFPA 24: PRIVATE FIRE MAINS & THEIR APPURTENANCES, 2016 EDITION NFPA 72: NATIONAL FIRE ALARM & SIGNALING CODE, 2016 EDITION NFPA 2001: CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2015 EDITION			
OCCUPANCY CLASSIFICATION AND USE:				A-3			
BUILDING CONSTRUCTION TYPE:				V-B			
NUMBER OF STORIES:				ONE STORY			
BUILDING AREA IN SQUARE FEET:				2 @ 36x40 = 2,880 SF TOTAL			
FIRE SPRINKLERED:				NO			
FIRE ALARM :				YES			
YEAR BUILDING WAS CONSTRUCTED:				2020			
IS THE BLDG. IN A HIGH FIRE HAZARD SEVERITY ZONE:				NO			
TYPE V-B NS A-3 ALLOWABLE AREA:				6,000 SF PER CBC TABLE 506.2			
FIRE SAFETY CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH CFC CHAPTER 33							



6/10/2020 1:46 PM MARISSAO  
E:\SOLANO CC\20016 EARLY COLLEGE PORTABLES\01\_SECT\_A51 SITE PLANS.DWG

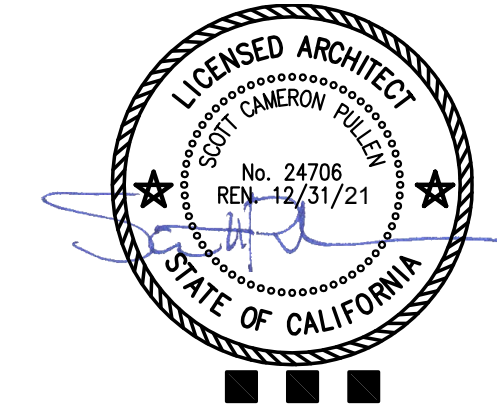


- DEMOLITION SITE PLAN KEYNOTES
- D1 DEMO (E) TURF AND SCARIFY MIN. 8" DEEP. PROVIDE GRADING OF SUB-PAD FOR MAX. 1% DRAINAGE SLOPE. RECOMPACT NATIVE TO 95%.
  - D2 DEMO (E) CONCRETE TO (E) JOINT
  - D3 (E) SANITARY SEWER LINE. F.V. LOCATION
  - D4 (E) WATER LINE. F.V. LOCATION
  - D5 (E) CONCRETE PAVING TO REMAIN
  - D6 (E) TURF TO REMAIN
  - D7 (E) LIGHT POLE FIXTURE TO REMAIN
  - D8 (E) IN-GROUND ELECTRICAL BOX TO REMAIN
  - D9 (E) TREE TO REMAIN. TRIM BRANCHES AS REQUIRED. CONSULT WITH ARBORIST.
  - D10 (E) FIRE HYDRANT
  - D11 (E) MANHOLE



HMRARCHITECTS

2130 21st Street  
Sacramento, CA 95818  
T 916 736 2724



DSA #02-118411  
FILE #48-C1

EARLY COLLEGE  
HIGH SCHOOL  
PORTABLES  
SOLANO COMMUNITY  
COLLEGE  
4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

DSA APPROVED SET  
FOR CONSTRUCTION

REVISIONS		
NO.	DESCRIPTION	DATE

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING  
HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED  
WORK OF HMR ARCHITECTS AND MAY NOT BE  
DUPLICATED, USED OR DISCLOSED WITHOUT THE  
WRITTEN CONSENT OF HMR ARCHITECTS

DEMOLITION SITE PLAN

JUNE 1, 2020

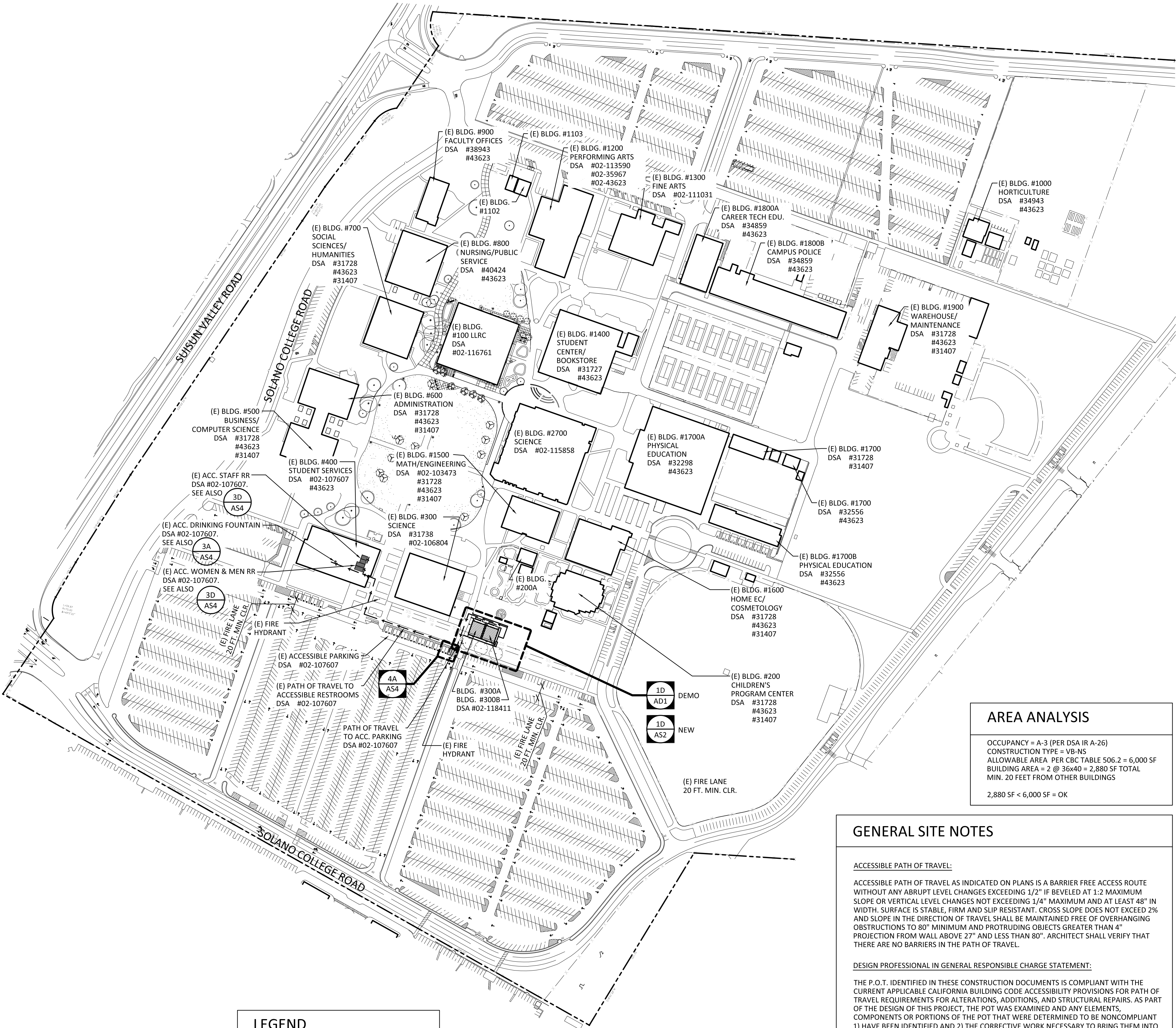
DRAWN BY:  
CHECKED BY:

AD1

20016



6/10/2020 11:29 AM MANUSAO  
E:\SOLANO CC\20018 EARLY COLLEGE PORTABLES\01\_SECP\_AS1-SITE PLANS.DWG



LEGEND	
	PATH OF TRAVEL
	PROPERTY LINE

1E  
AS1

## OVERALL SITE PLAN



## GENERAL SITE NOTES

### ACCESSIBLE PATH OF TRAVEL:

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLANS IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

### DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:

THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTIONS DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCOMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

## AREA ANALYSIS

OCCUPANCY = A-3 (PER DSA IR A-26)  
CONSTRUCTION TYPE = VB-NS  
ALLOWABLE AREA PER CBC TABLE 506.2 = 6,000 SF  
BUILDING AREA = 2 @ 36x40 = 2,880 SF TOTAL  
MIN. 20 FEET FROM OTHER BUILDINGS

2,880 SF < 6,000 SF = OK

DSA

810

## FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply. Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for Buildings.

PROJECT INFORMATION			
School District/Owner: Solano Community College District			
Project Name/School: Early College Portables / Solano Community College			
Project Address: 4000 Suisun Valley Road Fairfield CA 94534			
FIRE & LIFE SAFETY INFORMATION			
1.	Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Refer to the following website for FHSZ locations: <a href="http://ecis.fire.ca.gov/FHSZ/">http://ecis.fire.ca.gov/FHSZ/</a>		Moderate <input type="checkbox"/> High <input type="checkbox"/> Very High <input type="checkbox"/>	
Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)		n/a n/a n/a	WIFA <input type="checkbox"/> n/a

DGS DSA 810 (revised 01/30/20)  
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 1 of 4

## DSA 810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.				X
4a.	Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	Fire Hydrants: Number and spacing does not meet CFC requirements.				
5a.	Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.	✓			
6.	Fire Hydrants: Water flow and pressure are less than CFC minimum.				
6a.	Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.	✓			
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				X
7a.	Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

### School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: Lucky Lofton Title: Executive Bond Manager

Signature: [Signature] Date: 6/5/2020

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name: Vacaville Fire Protection District for the Cordella Fire Protection District	
LFA Review Official: Tim Walton	
Title: Battalion Chief	Work Phone: (707) 447-2252
Work Email: Tim.walton@vfpd.net	

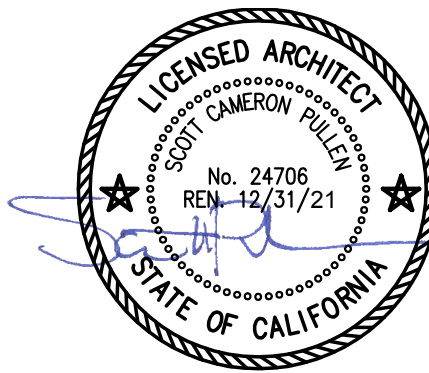
LFA Reviewer's Signature: [Signature] Date: 06-04-20

DGS DSA 810 (revised 01/30/20)  
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 2 of 4

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-118411 INC: REVIEWED FOR SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/> DATE: 06/11/2020
--

HMRARCHITECTS

2130 21st Street  
Sacramento, CA 95818  
T 916 736 2724



DSA #02-118411  
FILE #48-C1

EARLY COLLEGE  
HIGH SCHOOL  
PORTABLES

SOLANO COMMUNITY  
COLLEGE

4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

DSA APPROVED SET  
FOR CONSTRUCTION

## REVISIONS

NO.	DESCRIPTION	DATE
-----	-------------	------

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING  
HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED  
WORK OF HMR ARCHITECTS AND MAY NOT BE  
DUPLICATED, USED OR DISCLOSED WITHOUT THE  
WRITTEN CONSENT OF HMR ARCHITECTS

OVERALL SITE PLAN

JUNE 1, 2020

DRAWN BY:

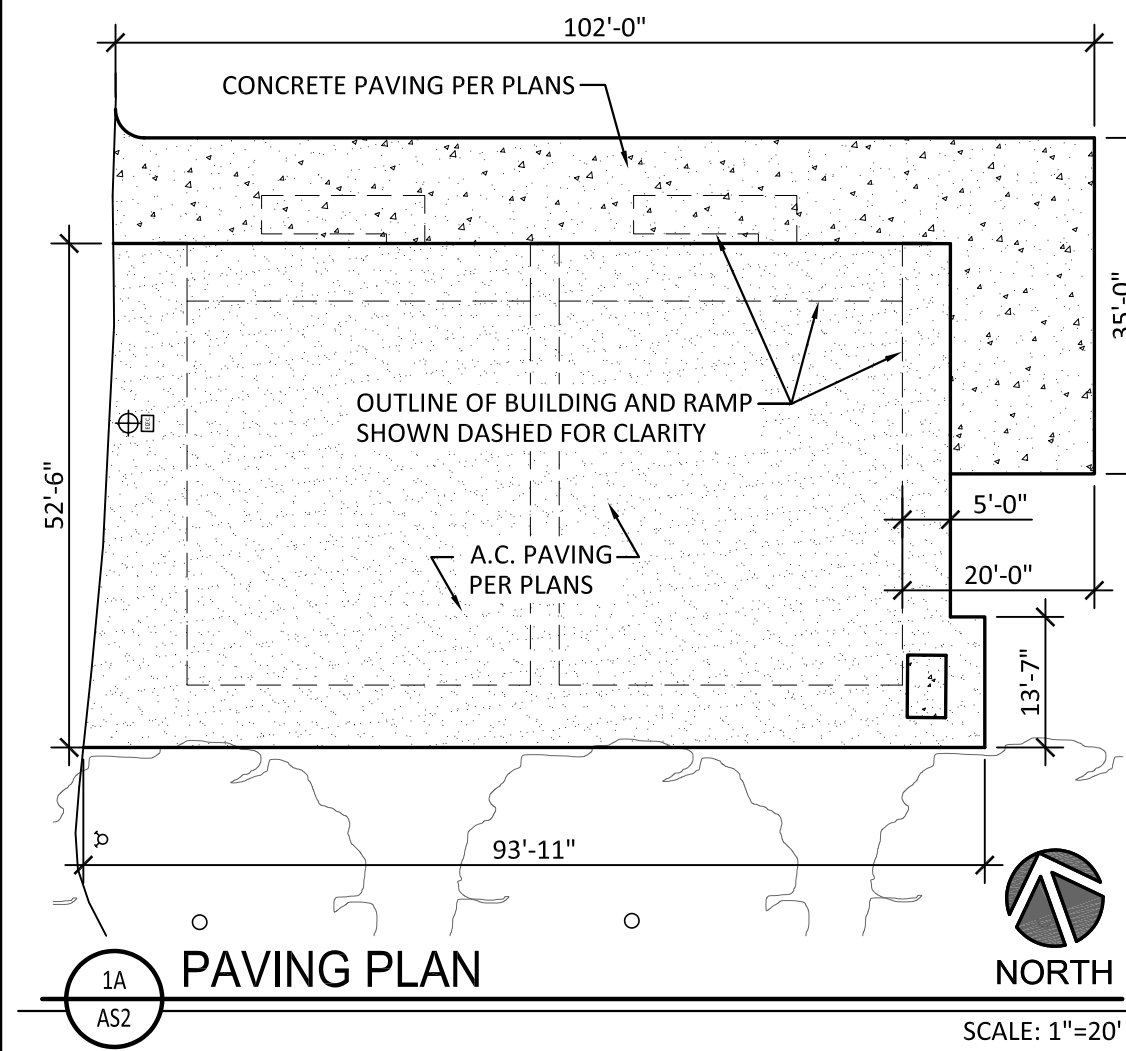
CHECKED BY:

JOB NO.  
20016

AS1

SCALE: 1"=150'

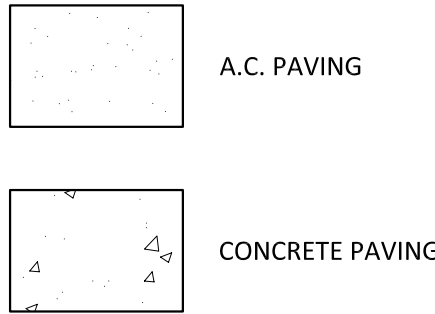




## GENERAL NOTES

- FOR EXTENTS OF PAVING UNDER BUILDINGS AND RAMP, SEE ALSO (1A AS2)
- SAWCUT CONCRETE WALKS FOR UNDERGROUND LOW VOLTAGE CABLE. REPLACE CONCRETE WALK TO MATCH (E). COMPACT BASE TO 95% DOWEL NEW TO (E) PER (4D AS3)

## LEGEND



## SITE PLAN KEYNOTES

- (S1) 2" A.C. PAVING OVER 6" CLASS 2 AGGREGATE BASE COMPACTED TO 95%. PROVIDE SLOPE FOR DRAINAGE ACROSS ENTIRE PAD.
- (S2) CONCRETE PAVING. SEE (5D AS3)
- (S3) (E) SANITARY SEWER LINE. F.V. LOCATION
- (S4) (E) WATER LINE. F.V. LOCATION
- (S5) (E) CONCRETE PAVING TO REMAIN
- (S6) (E) TURF TO REMAIN. SEE DISTURBED AREAS TO MATCH (E)
- (S7) (E) LIGHT POLE FIXTURE TO REMAIN
- (S8) (E) IN-GROUND ELECTRICAL BOX TO REMAIN
- (S9) (E) TREE. TRIM BRANCHES THAT OVERHANG BUILDING. CONSULT WITH A LICENSED ARBORIST. COORDINATE WITH DISTRICT
- (S10) NOT USED
- (S11) 6'-0" HIGH CHAINLINK FENCE. SEE (4C AS3)
- (S12) 3'-0" WIDE CHAINLINK GATE. SEE (5C AS3)
- (S13) T1-11 PLYWOOD CLOSURE PANEL FROM 1" ABOVE PAVING TO UNDER SOFFIT ABOVE. PAINT TO MATCH BLDG.
- (S14) MATCH (E) GRADE
- (S15) FLUSH TRANSITION
- (S16) ROOM IDENTIFICATION SIGN WITH 18"x18" FLOOR CLEARANCE. SEE SPECS AND (4B AS3)
- (S17) EXIT SIGNAGE WITH 18"x18" FLOOR CLEARANCE. SEE SPECS AND (5B AS3)
- (S18) WILLIAMS SCOTSMAN MODULAR CLASSROOM BUILDING WITH ACCESSIBLE RAMP AND LANDING. SEE ATTACHED PC DRAWINGS.
- (S19) (E) FIRE HYDRANT
- (S20) MODIFY (E) IRRIGATION SYSTEM AS REQUIRED TO MAINTAIN (E) LANDSCAPING. IRRIGATION PIPING AND HEADS TO MATCH (E). SEED DISTURBED AREA MIN. 5 FT. WIDE BAND AROUND PAVING WITH GRASS MIX TO MATCH TO (E)
- (S21) TRANSFORMER AND DISTRIBUTION PANEL ON CONCRETE HOUSEKEEPING PAD. SEE ELECTRICAL SHEETS.
- (S22) 6'-0" LONG LEVEL LANDING AT BASE OF RAMP
- (S23) OCCUPANT LOAD SIGN
- (S24) 8'W x 4'H WHITEBOARD. COORDINATE LOCATION WITH DISTRICT. SEE (3B AS3)

## AREA / OCCUPANT LOAD ANALYSIS

PER DSA IR A-26 SECTION 1.1, GENERAL EDUCATION CLASSROOMS SHALL HAVE AN OCCUPANT LOAD FACTOR OF 20 (NET).

AREA/USE	S.F. (NET)	LOAD FACTOR	OCC LOAD TOTAL PER BLDG.
300A	1,368	1/20	69
300B	1,368	1/20	69

## EXITING - BLDG. 300A

PER CBC 2019 1006.2.1, MINIMUM EXITS REQUIRED = 2  
MIN. DOOR WIDTH REQUIRED = 32" CLEAR

EXITS PROVIDED = 2

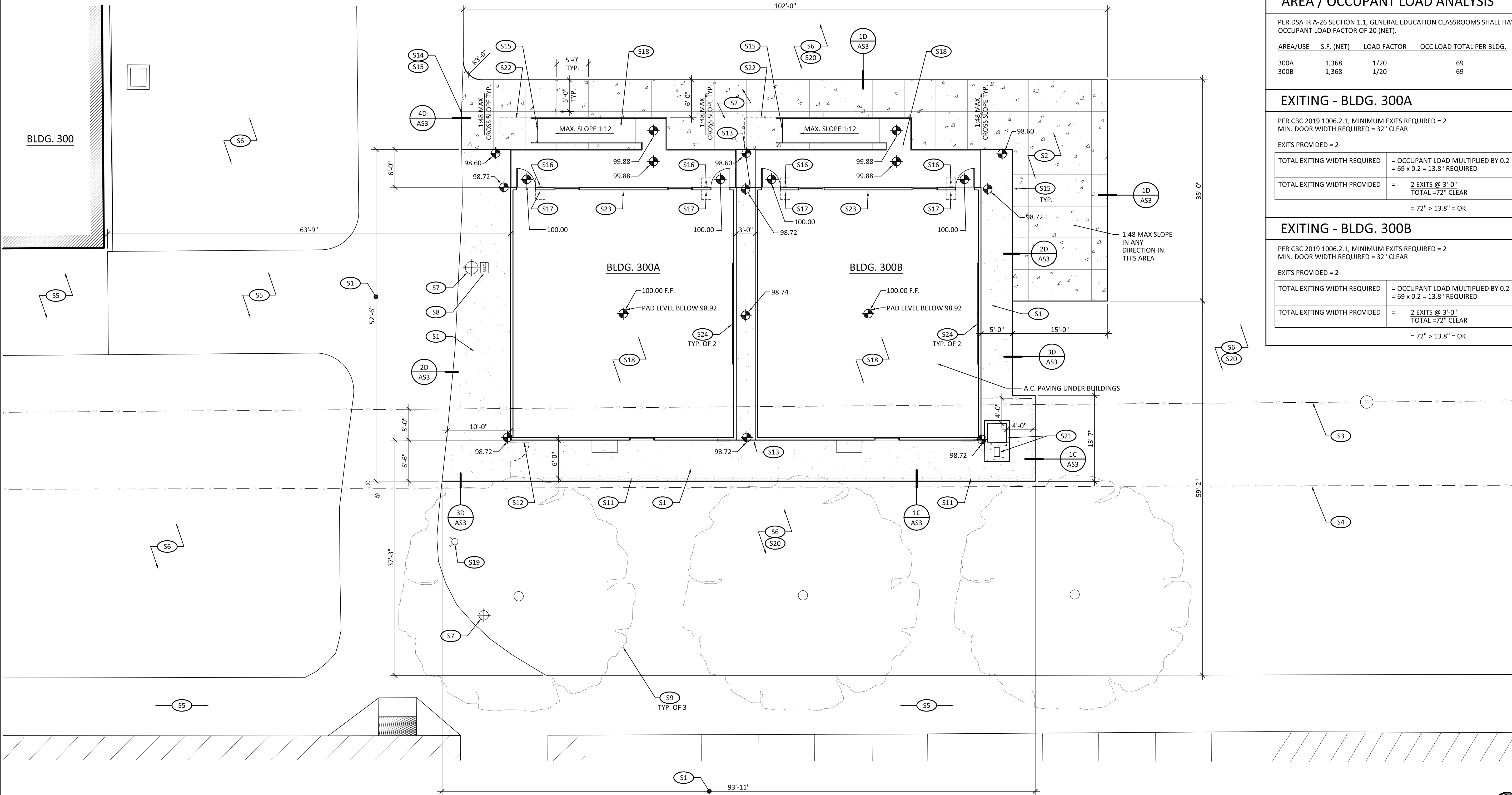
TOTAL EXITING WIDTH REQUIRED	= OCCUPANT LOAD MULTIPLIED BY 0.2 = 69 x 0.2 = 13.8" REQUIRED
TOTAL EXITING WIDTH PROVIDED	= 2 EXITS @ 3'-0" TOTAL = 72" CLEAR = 72" > 13.8" = OK

## EXITING - BLDG. 300B

PER CBC 2019 1006.2.1, MINIMUM EXITS REQUIRED = 2  
MIN. DOOR WIDTH REQUIRED = 32" CLEAR

EXITS PROVIDED = 2

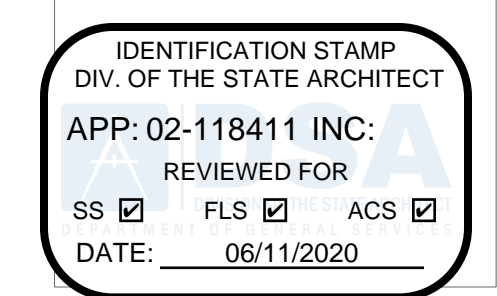
TOTAL EXITING WIDTH REQUIRED	= OCCUPANT LOAD MULTIPLIED BY 0.2 = 69 x 0.2 = 13.8" REQUIRED
TOTAL EXITING WIDTH PROVIDED	= 2 EXITS @ 3'-0" TOTAL = 72" CLEAR = 72" > 13.8" = OK



ENLARGED SITE PLAN

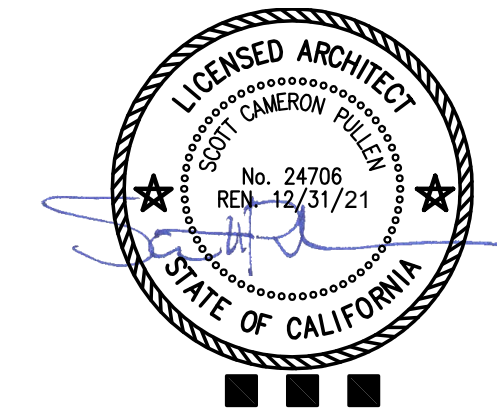


SCALE: 1/8"=1'-0"



HMRARCHITECTS

2130 21st Street  
Sacramento, CA 95818  
T 916 736 2724



DSA #02-118411  
FILE #48-C1

EARLY COLLEGE  
HIGH SCHOOL  
PORTABLES  
SOLANO COMMUNITY  
COLLEGE

4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

DSA APPROVED SET  
FOR CONSTRUCTION

REVISIONS		
NO.	DESCRIPTION	DATE

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING  
HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED  
WORK OF HMR ARCHITECTS AND MAY NOT BE  
DUPLICATED, USED OR DISCLOSED WITHOUT THE  
WRITTEN CONSENT OF HMR ARCHITECTS

ENLARGED SITE PLAN

JUNE 1, 2020

DRAWN BY:

CHECKED BY:

JOB NO.

20016

AS2



IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

HMRARCHITECTS

2130 21st Street  
Sacramento, CA 95818  
T 916 736 2724



DSA #02-118411  
FILE #48-C1

EARLY COLLEGE  
HIGH SCHOOL  
PORTABLES  
SOLANO COMMUNITY  
COLLEGE

4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

DSA APPROVED SET  
FOR CONSTRUCTION

REVISIONS		
NO.	DESCRIPTION	DATE

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING  
HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED  
WORK OF HMR ARCHITECTS AND MAY NOT BE  
DUPLICATED, USED OR DISCLOSED WITHOUT THE  
WRITTEN CONSENT OF HMR ARCHITECTS

DETAILS	
JUNE 1, 2020	
DRAWN BY:	AS3
CHECKED BY:	
JOB NO:	
20016	

#12 x 2" CTSK WD., OR S.M. SCREWS AT EA. STUD TYP.

7'-0" A.F.F.

HEAD TRIM W/ MAP RAIL & CORK INSERT.

BACKING

WHITE BD. PER DISTRICT STANDARDS

#12 x 2" CTSK WD., OR S.M. SCREWS AT EA. STUD TYP.

MARKER TRAY

WALL FINISH PER MANUF.

4" MAX. PROJECTION

2x FRAMED WALL PER MANUF.

3B AS3

WHITE BOARD

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

LOCATE (1) VERBAL & BRAILLE SIGN @ EA. ROOM ENTRY (INT. & EXT.) DOOR AS SHOWN ON PLANS OR ELEV.

ALL SIGNAGE SHALL BE COORDINATED WITH DISTRICT INTERIOR STANDARDS. CONFIRM VERBIAGE OF EACH SIGN WITH THE DISTRICT.

ALL WORD CHARACTERS AND BRAILLE SHALL BE IN HORIZONTAL FORMAT.

SIGN WORDING TO IDENTIFY ROOM NAME (& ROOM NUMBER WHEN APPLICABLE) - REFER TO PLANS FOR NAME & NUMBER. ALL CHARACTERS TO BE 1" MIN. HIGH & HAVE WIDTH TO HEIGHT RATIO BETWEEN 60% & 110% & A STROKE RATIO OF 15% MAX. ALL TEXT CHARACTERS SHALL BE RAISED 1/32" MIN.

ALL ROOM IDENTIFICATION SIGNAGE SHALL HAVE CONTRACTED (GRADE 2) BRAILLE WITH DIMENSIONS & MEASUREMENT PER 2016 CBC 11B-703.3 AND TABLE 11B-703.3.1

1/2" OF TACTILE CHARACTERS SHALL BE CENTERED IN THE CLR. FLR. SPACE

3/8" TO 1/2" FROM BOTTOM OF LETTERS TO TOP OF BRAILLE W/ CELLS FLUSH LEFT OR CENTERED TO TACTILE CHARACTERS.

NOTE: ALL SIGNAGE TO COMPLY W/ 2019 CBC SECTION 11B-703

NOTE: BRAILLE SHALL BE LOCATED @ BTM. OF SIGN, TYP. 3/8" MIN. SPACE BETWEEN RAISED CHARACTORS/BRAILLE & ANY RAISED FRAME.

4B AS3

ROOM IDENTIFICATION SIGN

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

ALL SIGNAGE SHALL BE COORDINATED WITH DISTRICT INTERIOR STANDARDS. CONFIRM VERBIAGE OF EACH SIGN WITH THE DISTRICT.

ALL SIGNAGE SHALL HAVE VANDAL RESISTANT SCREW ANCORS (TYP.)

SIGN WORDING TO IDENTIFY EXIT W/ RAISED CHARACTERS PER 2019 CBC 11B-703

PROVIDE EXIT SIGNAGE W/ GRADE 2 BRAILLE AT ALL EXIT DOORS ON INT. SIDE

3/8" T.O. BRAILLE TO BTM. OF LETTERS

NOTE: ALL SIGNAGE TO COMPLY W/ 2019 CBC 11B-703

5B AS3

TACTILE EXIT SIGNAGE

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

CHAINLINK FENCE BEYOND PER

HEADER PER

(E) TURF

6"

1C AS3

A.C. EDGE AT CHAINLNK FENCE

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

FENCE POST @ GATE

HEAVY DUTY FORK LATCH, GALV.

GATE FRAME PIPE

1/4"Ø ROD BENT IN 1" RADIUS WELDED TO GATE LATCH, BOTH SIDES

2C AS3

ACCESSIBLE GATE LATCH

SCALE: 6"=1'-0"

CORNER OR GATE POSTS

LINE POSTS

2 7/8"Ø POST TYP. U.N.O.

4"Ø MAX. POST

CROWN CONC. 1/2" MIN.

FIN. GRADE OR PAVING AS OCCURS

3'-3" @ ALL HEIGHTS

1'-6" Ø

6" HIGH FENCE & LESS = 2'-3"

6" TO 8" HIGH FENCE & HIGHER = 2'-5"

1'-0" Ø TYP.

3C AS3

FENCE POST FOOTINGS

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

POST CAP, TYP. ALL POSTS

LINE POSTS - 1 7/8"Ø GALV. SCHED. 40 STL. PIPE

10'-0" MAX.

+6'-0"

GREEN POWDER COATED CHAIN LINK AND POSTS WITH GREEN PRIVACY SLATS

CORNER POST - 2 7/8"Ø GALV. SCHED. 40 STL. PIPE

HORIZ. RAILS 1 5/8"Ø GALV. STL. PIPE (TYP.)

NOTE: FOR FENCE POST FOOTING SEE

3C AS3

4C AS3

CHAIN LINK FENCE

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

SEALED BEARING WELD-ON HEAVY DUTY HINGES (TYP. OF 3)

LEAF SIZE PER PLANS

POST CAP, TYP.

GATE POSTS. 3 1/2"Ø GALV. SCHED. 40 STL. PIPE

GALV. POST RAILS & BRACING STRETCH BAR (TYP.)

+6'-0"

TOP RAIL GALV. C.L.F. INFILL (TYP.)

GREEN POWDER COATED CHAIN LINK AND POSTS WITH GREEN PRIVACY SLATS

34" TO CENTERLINE OF GATE LATCH

ACC. GATE LATCH. SEE

2C AS3

BTM. RAIL 1 5/8"Ø GALV. STL. PIPE

GATE FRAME. 1 7/8"Ø GALV. STL. PIPE, TYP.

NOTE: FOR FENCE POST FOOTING SEE

3C AS3

5C AS3

GATE WITH FORK LATCH

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

CONC. WALK PER

3/4" RADIUS, TYP.

(E) TURF

2" MAX.

6"

1D AS3

CONCRETE WALK TO LANDSCAPE

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

T.O. CONC. SHALL BE FLUSH W/T.O. A.C. PAVING

A/C PAVING

CONC. PAVING SEE

5D AS3

2D AS3

CONCRETE TO A.C. PAVING

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

ASPHALT PAVING

2"x4" PRESSURE TREATED HEADER BOARD

(E) TURF

2"x2"x18" PRESSURE TREATED STAKE AT 48" OC

3D AS3

HEADER AT A.C. EDGE

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

#3 REBAR @ 18" O.C. E.W. CENTERED IN SLAB (TYP.)

4" CONC. MIN.

NEW

EXISTING

1/2" MAX.

1/2" EXPANSION STRIP WITH JOINT SEALER

JT. FILLER

24" #3 DOWELS @ 18" O.C. CENTERED IN SLAB

4" AGGR. BASE

DRILL & EPOXY DOWELS 6" INTO CONC.

4D AS3

NEW TO EXISTING CONCRETE PAVING

SCALE: 3"=1'-0"

1/4" MAX. TOOLED JT. MIN. 1/2" DEEP

5'-0" O.C. MAX

4" CONC. MIN.

4" AGGR. BASE

CONTROL JOINT (C.J.)

20'-0" O.C. MAX.

1/2" MAX.

JT. FILLER

1/2" EXPANSION STRIP WITH JOINT SEALER

4" AGGR. BASE

EXPANSION JOINT (E.J.)

4" CONC. MIN.

#3 REBAR AT 18" O.C. E.W. CENTERED IN SLAB (TYP.)

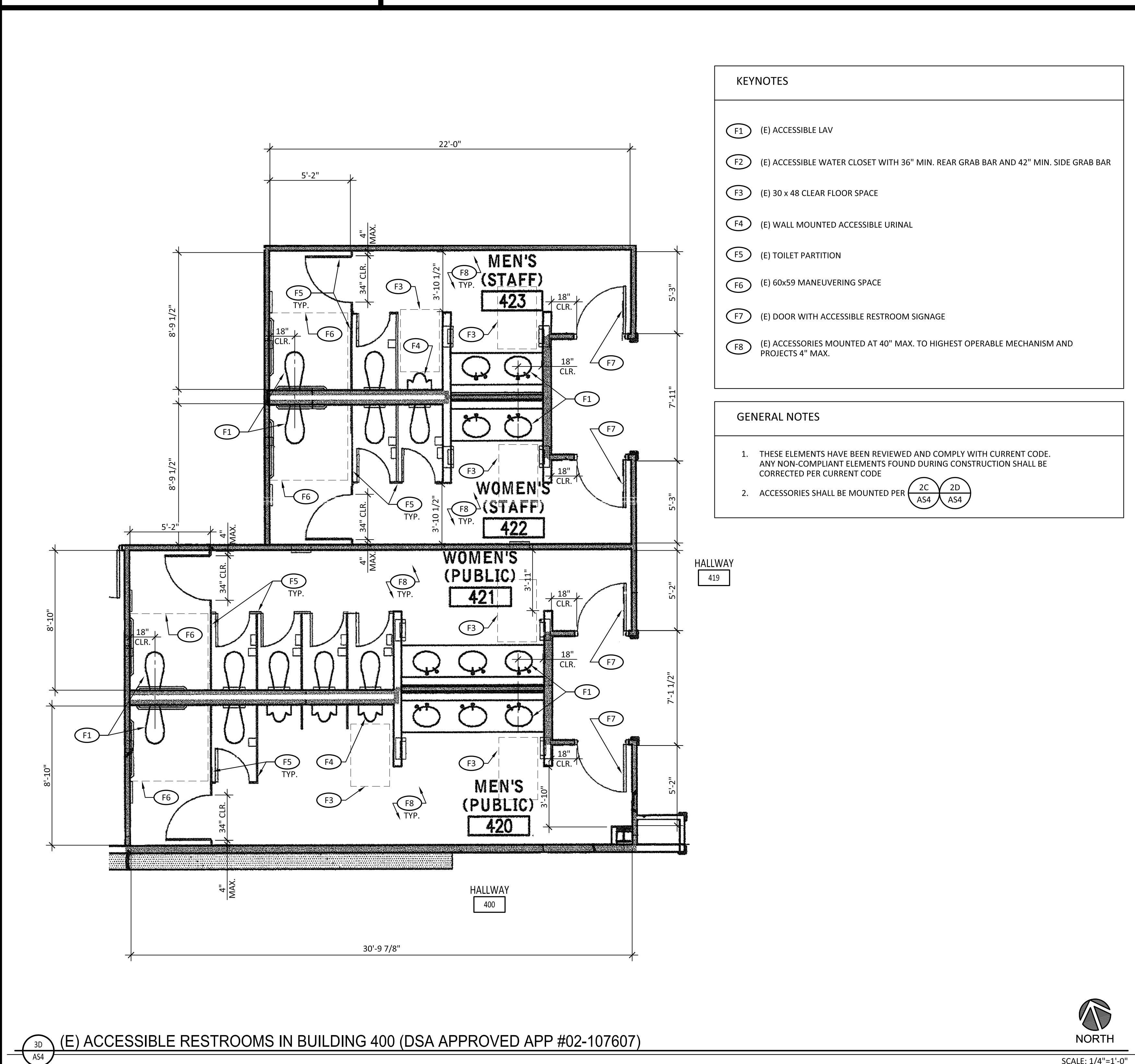
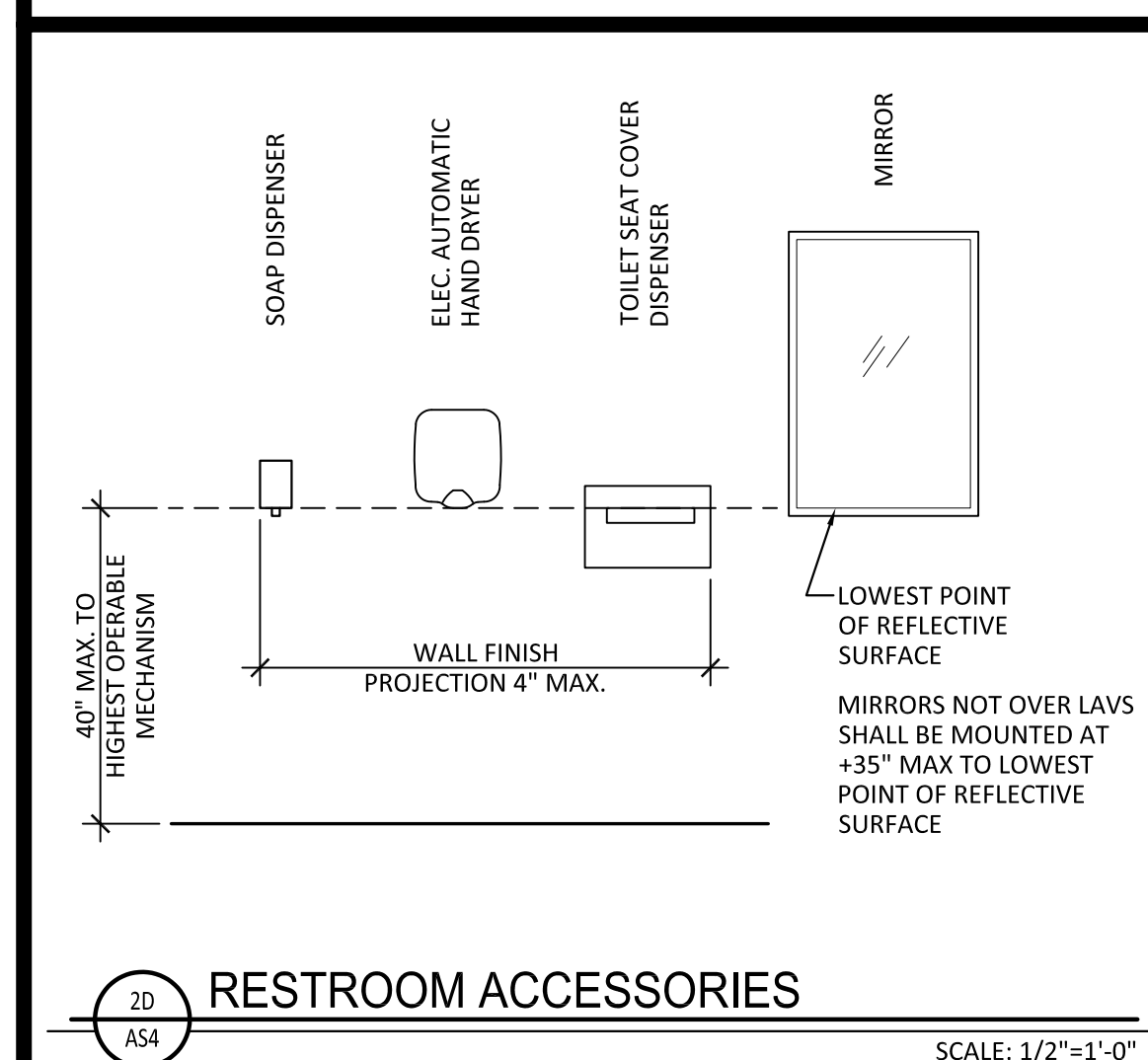
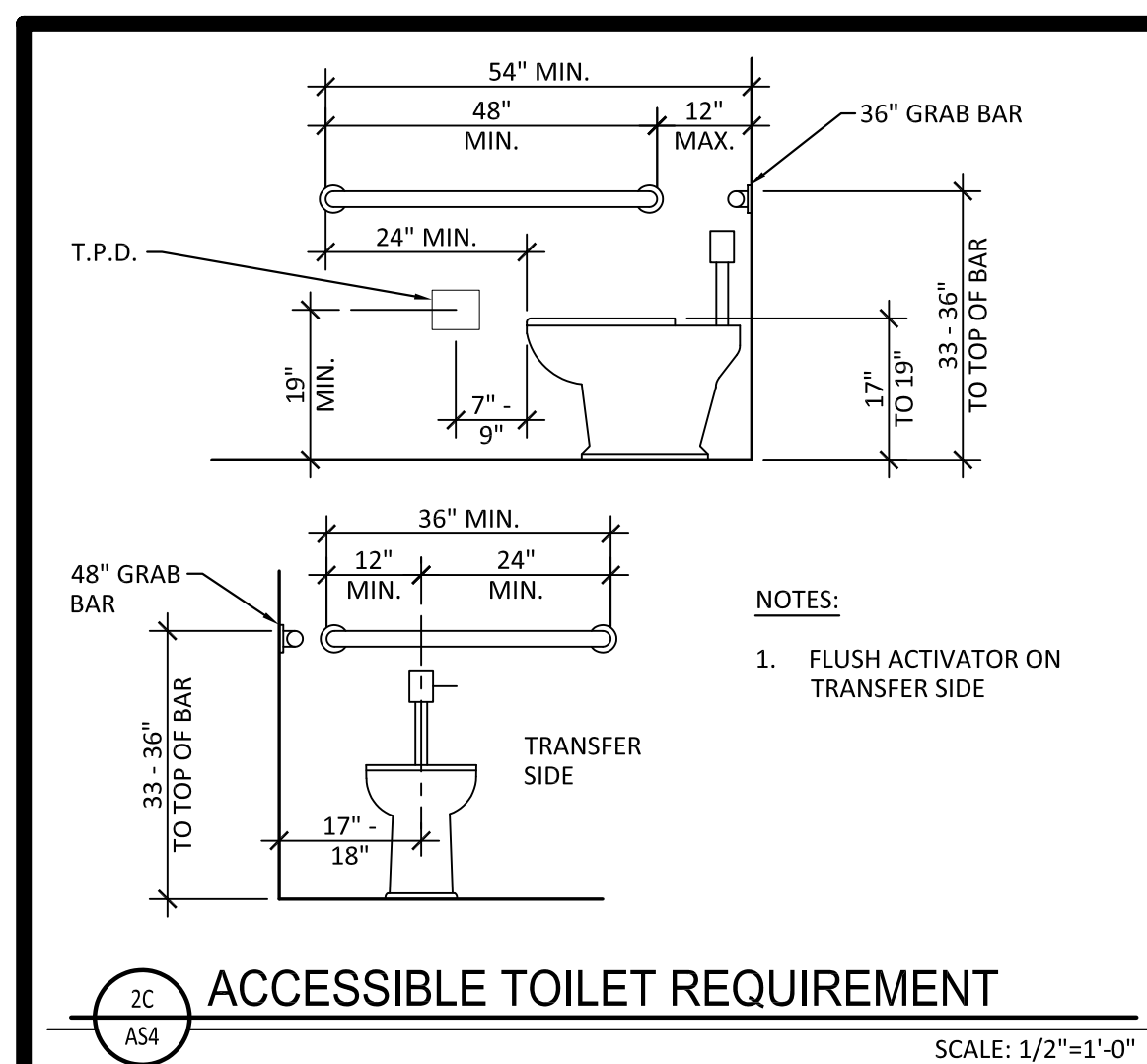
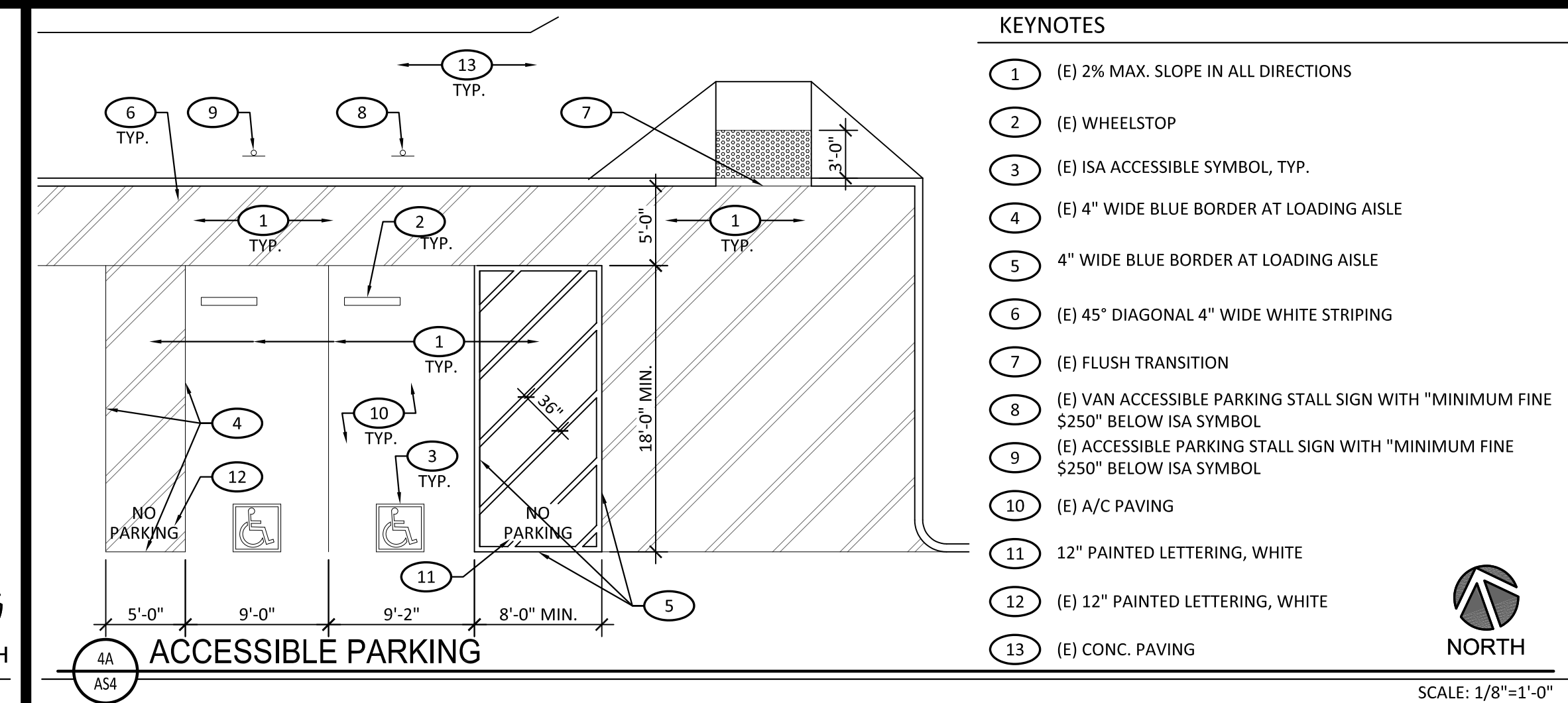
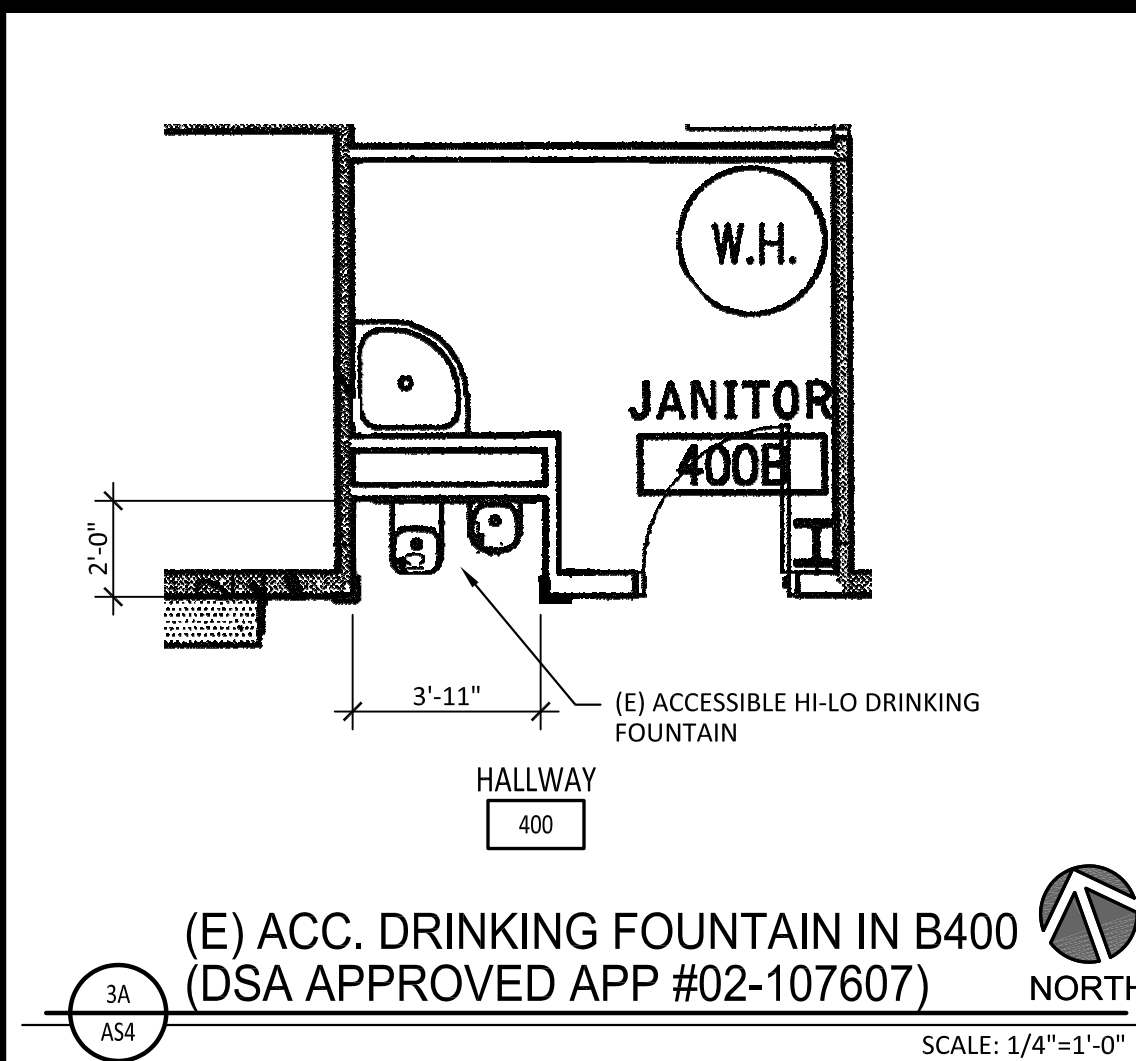
NOTES:  
1. MEDIUM BROOM FINISH UNLESS NOTED OR INDICATED OTHERWISE.  
2. MAXIMUM 4.8% SLOPE IN LONGITUDINAL DIRECTION.  
3. MAXIMUM 1.8% SLOPE IN TRANSVERSE DIRECTION.  
4. SPACING OF JOINTS AS NOTED ABOVE, G.C. TO SUBMIT SPACING PLAN SHOWING ALL LOCATIONS PRIOR TO INSTALLATION.  
5. SET ALL CONCRETE WORK ON MINIMUM 4" AGGREGATE BASE. COORDINATE WITH CIVIL PLAN & SOILS REPORT RECOMMENDATION.

5D AS3

CONCRETE PAVING

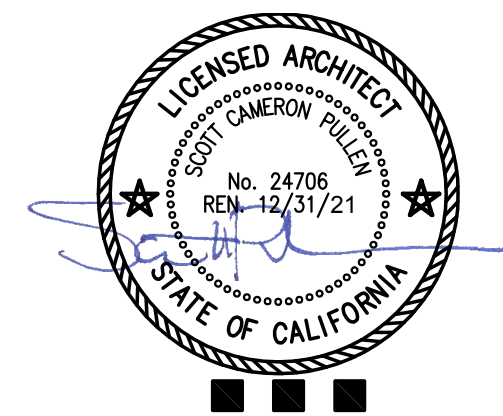
SCALE: 1 1/2"=1'-0"





HMRARCHITECTS

2130 21st Street  
Sacramento, CA 95811  
T 916 736 2724



DSA #02-118411  
FILE #48-C1

EARLY COLLEGE  
HIGH SCHOOL  
PORTABLES  
SOLANO COMMUNITY  
COLLEGE

4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

DSA APPROVED SET  
FOR CONSTRUCTION

## REVISIONS

NO.	DESCRIPTION	DATE
-----	-------------	------

## ACCESSIBILITY SHEET

JUNE 1, 2020

DRAWN BY:

CHECKED BY:

JOB NO.

AS4



20016 |



GENERAL NOTES

1.

FOR ALL UNDERGROUND CONDUITS, USE CAUTION WHEN TRENCHING NOT TO DAMAGE EXISTING CONDUIT, FULL BOXES, TREES, ETC. CUT & PATCH (E) CONCRETE, ASPHALT, LAWN, ETC. TO MATCH (E) CONDITIONS. IF ANY DAMAGE OCCURS TO EXISTING CONDUITS, IRRIGATION LINES, SEWER, ETC. THE CONTRACTOR SHALL REPAIR THE DAMAGE AT THEIR OWN COST TO LIKE NEW CONDITIONS.
2.

ALL NEW LOW VOLTAGE DEVICES ARE BEING CONNECTED TO EXISTING LOW VOLTAGE SYSTEMS. COORDINATE WITH SCHOOL DISTRICT FOR DEVICE MANUFACTURER AND MATCH (E) CAMPUS DEVICES. NEW FIRE ALARM DEVICES ARE SHOWN ON EQUIPMENT SCHEDULE. PROVIDE ALL REQUIRED CONNECTIONS, REPROGRAMMING, HARDWARE, EXPANSION CARDS, ETC. FOR A COMPLETE AND OPERATIONAL INSTALLATION.
3.

MOUNTING HEIGHTS SHOWN ARE FROM FINISHED FLOOR TO THE DEVICE. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON THE SYMBOLS LIST UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
4.

THE CONTRACTOR SHALL VISIT THE PROJECT JOB SITE AND VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN THE BID NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND ALL APPLICABLE CODES.
5.

ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES AND BEAR THEIR LABEL.
6.

ALL LOCATIONS SHOWN ON PLANS FOR ALL POWER, FIRE ALARM AND LOW VOLTAGE SIGNAL SYSTEM DEVICES ARE APPROXIMATE. COORDINATE EXACT LOCATION IN FIELD.
7.

CONTRACTOR SHALL REMOVE ALL LEFT OVER WIRE, SCRAPS, CONDUIT ETC. AND LEAVE THE PROJECT JOB SITE CLEAN AND FREE OF TRASH AND DEBRIS RESULTING FROM HIS WORK.
8.

CONTRACTOR SHALL REPORT TO THE OWNER'S ENGINEER ANY OBSERVATIONS OF CONDITIONS WHICH ARE DISCOVERED IN THE BUILDING WHICH WOULD PREVENT THE CORRECT INSTALLATION OF THE ELECTRICAL SYSTEMS.
9.

CONDUIT ROUTING ON PLANS IS SHOWN DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT CONDUIT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF UTILITIES AND OTHER DISCIPLINES.
10.

ALL CONDUITS AND RACEWAYS PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH APPROVED SEALANT TO MAINTAIN THE FIRE RATING OF THE FLOOR AND WALL.
11.

INSTALL A SEPARATE GROUND WIRE FROM ALL TELECOMMUNICATION TERMINAL BACKBOARDS TO THE NEAREST ACCESSIBLE GROUND (GROUND BAR, GROUND BUS OR COLD WATER PIPE).
12.

ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE PROVIDED WITH SPECIFIED EXPANSION/DEFLECTION FITTINGS.
13.

ALL CONDUIT PENETRATIONS THROUGH ROOF AND EXTERIOR WALL SHALL BE SEALED WATERTIGHT.
14.

COORDINATE ALL CEILING MOUNTED DEVICES WITH (E) BUILDING LIGHTING FIXTURES TO AVOID CONFLICTS.
15.

CONTRACTOR SHALL MAINTAIN BARRIER SEPARATION BETWEEN SURFACE RACEWAY SYSTEM COMPARTMENTS AT ALL TEES AND OR CROSSSES.
16.

PROVIDE A CEC SIZED INSULATED COPPER GROUND CONDUCTOR IN ALL 120 VOLT THROUGH 600 VOLT FEEDER AND BRANCH CIRCUIT DISTRIBUTION CONDUITS AND CABLES UNLESS OTHERWISE NOTED.
17.

CONTRACTOR SHALL REFER TO POWER PLANS FOR THE LOCATION OF ALL PANELBOARDS.
18.

FURNISH AND INSTALL ALL PANELBOARDS WITH CIRCUIT BREAKERS AS SHOWN ON PANEL SCHEDULES.
19.

CONTRACTOR SHALL REFER TO ONE LINE DIAGRAM AND PANEL SCHEDULES FOR COMPONENTS OF THE ELECTRICAL SYSTEM.
20.

LIGHTING AND POWER PLANS TYPICALLY INDICATE HOMERUNS WITH CIRCUIT NEXT TO DEVICES. CONTRACTOR SHALL ROUTE BRANCH CIRCUITS BASED ON CIRCUITING SHOWN AND SWITCH CONFIGURATIONS.
21.

TELECOMMUNICATION CABLING SHALL BE PROVIDED BY THE CONTRACTOR. COORDINATE OUTLET REQUIREMENTS, RACEWAYS, TELECOMMUNICATION LAYOUTS, ETC. WITH SCHOOL DISTRICT PRIOR TO INSTALLATION.
22.

ALL LOW VOLTAGE CABLING ROUTING SHALL BE CONCEALED INSIDE THE BUILDING. PER THE SCHOOL DISTRICT, THE LOW VOLTAGE CABLING MAY BE ROUTED FREE AIR ABOVE T-BAR CEILINGS WITH SUPPORTS PER NEC. IN ATTIC SPACES, ALL LOW VOLTAGE & DATA CABLES SHALL BE ROUTED IN CONDUIT. SURFACE MOUNTED RACEWAY SHALL BE USED IF CABLE CONCEALMENT IS NOT APPLICABLE. COORDINATE SURFACE ROUTED RACEWAY MANUFACTURER & LOCATIONS WITH SCHOOL DISTRICT.
23.

CONTRACTOR SHALL PAINT ALL EXPOSED CONDUITS TO MATCH ADJACENT MATERIAL COLOR.
24.

THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS APPROVED BY AHJ.
25.

THE ELECTRICAL DRAWINGS ARE NOT INTENDED TO SERVE AS STAND ALONE DOCUMENTS TO COMMUNICATE THE ENTIRE SCOPE OF ELECTRICAL WORK. THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF CONSTRUCTION DOCUMENTS.
26.

WORK INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT TO REMOVE AND INSTALL ELECTRICAL ITEMS SPECIFIED AS SHOWN OR NOT SHOWN WHICH CAN BE REASONABLY ASSUMED TO BE REQUIRED AND NECESSARY TO PROVIDE COMPLETE AND WORKABLE SYSTEMS.
27.

ALL ELECTRICAL WORK SHALL CONFORM WITH THE MOST RECENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL STATE AND LOCAL CODES & REQUIREMENTS.
28.

THE COMPLETE SYSTEM SHALL BE GROUNDED PER NEC ART. 250.
29.

PROVIDE A FULL ROPE IN ALL EMPTY CONDUITS FOR FUTURE PULLING OF CONDUCTORS OR CABLES.

EQUIPMENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.118 THROUGH 1616A.126 AND ASCE 1-10 CHAPTER 13, 26 AND 30.

1.

ALL PERMANENT EQUIPMENT AND COMPONENTS.
2.

TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3.

MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND 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 ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

- 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 SUPPORTS 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.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING & ELEC. DIST. SYS. BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 1-10 SECTION 13.3 AS DEFINED IN ASCE 1-10 SECTION 13.6.3.6, 13.6.7, 13.6.8 AND 2016 CBC SECTIONS 1616A.124, 1616A.125 AND 1616A.126.

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. SMACNA OR OSHPD OPM), 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.

MP□MD□PP□EE□ - OPTION #1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP□MD□PP□EE□ - OPTION #2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM) \*

MP□MD□PP□ - OPTION #3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY APPENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL \_\_\_ AND CONNECTION LEVEL \_\_\_ FOR THE PROJECT AND CONDITIONS.

ABBREVIATIONS LIST

•	AT	J-BOX	JUNCTION BOX
A	AMPERE	KVA	KILO VOLT AMP
A/C	AIR CONDITIONING	KW	KILOWATT
AFF.	ABOVE FINISHED FLOOR	LV	LOW VOLTAGE
AL	ALUMINUM	M.C.	MECHANICAL CONTRACTOR
AS	AMP SWITCH	MCC	MOTOR CONTROL CENTER
A.T.S.	AUTOMATIC TRANSFER SWITCH	MECH.	MECHANICAL
AWG	AMERICAN WIRE GAUGE	MH	METAL HALIDE
BC	BARE COPPER	MISC.	MISCELLANEOUS
BD.	BOARD	MSS	MAIN SWITCHBOARD
B.F.C.	BELOW FINISHED CEILING	MV	MERCURY VAPOR
BKR	BREAKER	(N)	NEW
BLDG.	BUILDING	N.I.C.	NOT IN CONTRACT
C	CONDUIT	N.I.E.S	NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECS.
C/B	CIRCUIT BREAKER	NL	NIGHT LIGHT
CKT.	CIRCUIT	NO. *	NUMBER
CLG.	CEILING	NTS	NOT TO SCALE
C.O.	CONDUIT ONLY, WITH FULL LINE	O.C.	ON CENTER
CU	COPPER	P.	POLE
Disc.	DISCONNECT	P.C.	PLUMBING CONTRACTOR
(E)	EXISTING	PH	PHASE
EA	EACH	PLUMB.	PLUMBING
E.C.	ELECTRICAL CONTRACTOR	PLY.	PLYWOOD
ELECT.	ELECTRIC/ALL	PNL	PANEL
EMERG.	EMERGENCY	PR1	PRIMARY
ENT	ELECTRICAL METALLIC TUBING	PVC	POLYVINYL CHLORIDE
EQUIP.	EQUIPMENT	REQ'D.	REQUIRED
EUC	ELECTRICAL WATER COOLER	R1	ROOM
EWH	ELECTRIC WATER HEATER	RSC	RIGID STEEL CONDUIT
EXIST.	EXISTING	SEC.	SECONDARY
(F)	FUTURE	SQ.	SQUARE
F.A.C.P.	FIRE ALARM CONTROL PANEL	SW	SWITCH
FLUOR.	FLUORESCENT	TEL.	TELEPHONE
FT	FOOT	TTB	TELEPHONE TERMINAL BOARD
G.C.	GENERAL CONTRACTOR	TTC	TELEPHONE TERMINAL
GND.	GROUND		CABINET
GYP.	GYPSUM	TYP.	TYPICAL
H.I.D.	HIGH INTENSITY DISCHARGE	UG	UNDERGROUND
H.P.S.	HIGH PRESSURE SODIUM	UON	UNLESS OTHERWISE NOTED
HP	HORSEPOWER	UPS	UNINTERRUPTED POWER SUPPLY
HT	HEIGHT	V	VOLTS
HV	HIGH VOLTAGE	UP	WEATHERPROOF
I/C	INTERCOM	W	WATT
IMC	INTERMEDIATE METALLIC CONDUIT	W/	WITH
INCAN.	INCANDESCENT	W/O	WITHOUT
IG	ISOLATED GROUND	XPWR	AND
ISC	SHORT CIRCUIT INTERRUPTING CURRENT	•	PHASE

WIRE AND CONDUIT LEGEND

	CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
	CONDUIT RUN UNDERFLOOR OR UNDERGROUND.
	HOME RUN, NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS IN HOME RUN.
	FLEXIBLE CONDUIT
	FACTORY WHIP
	NO CROSSBARS ON CONDUIT INDICATE 1/2" CONDUIT WITH TWO #12 AWG CONDUCTORS & ONE #12 AWG GND. CROSSBARS INDICATE NUMBER OF #12 AWG CONDUCTORS IN CONDUIT IN ADDITION TO #12 AWG GND. CONDUCTOR SIZE OTHER THAN #12 NOTED ON DRAWING. CONDUIT SIZE OTHER THAN 1/2" NOTED ON DRAWING.
	CONDUIT UP.
	EXAMPLE: THREE CIRCUITS IN HOME RUN - FOUR #10 AWG CONDUCTORS AND ONE #10 AWG GROUNDING CONDUCTOR IN 3/4" CONDUIT, RUN CONCEALED IN WALL OR ABOVE CEILING.

ELECTRICAL SYMBOLS

- NON-FUSED DISCONNECT SWITCH, SIZE AS REQUIRED
- ⌚

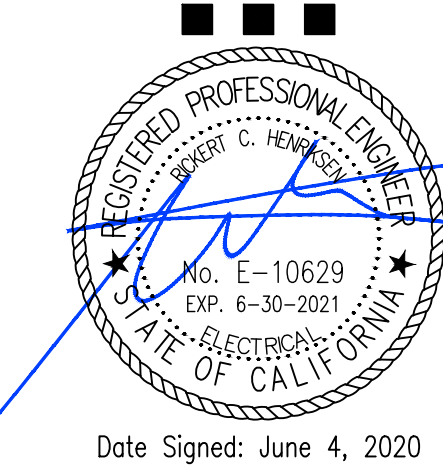
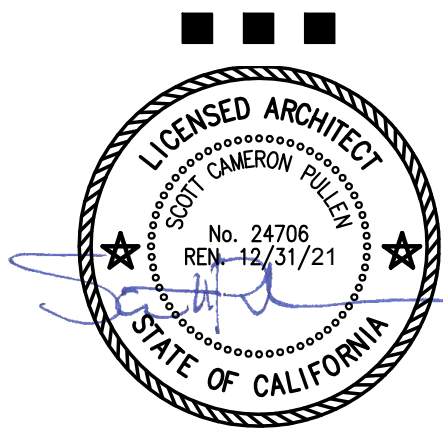
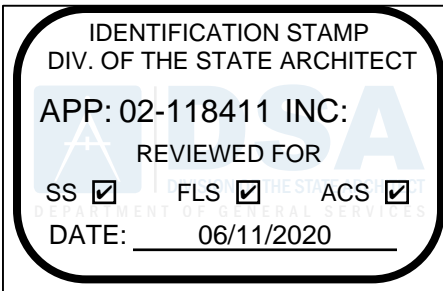
FUSED DISCONNECT SWITCH WITH TIME DELAY FUSES SIZED PER UNIT NAMEPLATE OR AS NOTED. DISCONNECT SHALL ACCEPT MAXIMUM RECOMMENDED FUSE SIZE.
- ⚡

DUPLEX RECEPTACLE, NEMA 5-20R, #18" UON
- RECEPTACLE SUBSCRIPTS:  
GFI -or- GFCI = GROUND FAULT-CIRCUIT INTERRUPTER  
R = ROOF MOUNTED, WEATHERPROOF (IN-USE), GFCI  
EUC = ELECTRIC WATER COOLER, GFCI  
UP = WEATHERPROOF (WHILE IN-USE COVER)
- ⊗ ⊙

JUNCTION BOX, SIZE AND TYPE AS REQUIRED
- ⊠

FULLBOX, SIZE AND TYPE AS REQUIRED
- 2  
⌵

COMBINATION TEL/DATA OUTLET, #18" UON, CAT6 CABLE IN RACEWAY. THE NUMBER REPRESENTS THE NUMBER OF RJ45 JACKS AT EACH OUTLET.
- SWITCHBOARD, SEE ONE LINE DIAGRAM
- BRANCH CIRCUIT PANEL, SEE PANEL SCHEDULES
- SIGNAL OR CONTROL PANEL, TYPE AS INDICATED
- TELEPHONE TERMINAL BOARD, SIZE AS INDICATED
- IDENTIFICATION TAG FOR EQUIPMENT PROVIDED BY M.C. CONNECT EQUIPMENT AS INDICATED OR AS REQUIRED.
- NUMBERED NOTE TAG - SEE NUMBERED NOTES, SAME SHEET
- INDICATES DETAIL "A" AT SHEET "EI"



Date Signed: June 4, 2020



DSA #02-118411  
FILE #48-C1

EARLY COLLEGE  
PORTABLES

SOLANO COMMUNITY  
COLLEGE

4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

DSA APPROVED SET  
FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE
-----	-------------	------

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED WORK OF HMR ARCHITECTS AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF HMR ARCHITECTS

ELECTRICAL SCHEDULES,  
SYMBOLS & NOTES

JUNE 1, 2020

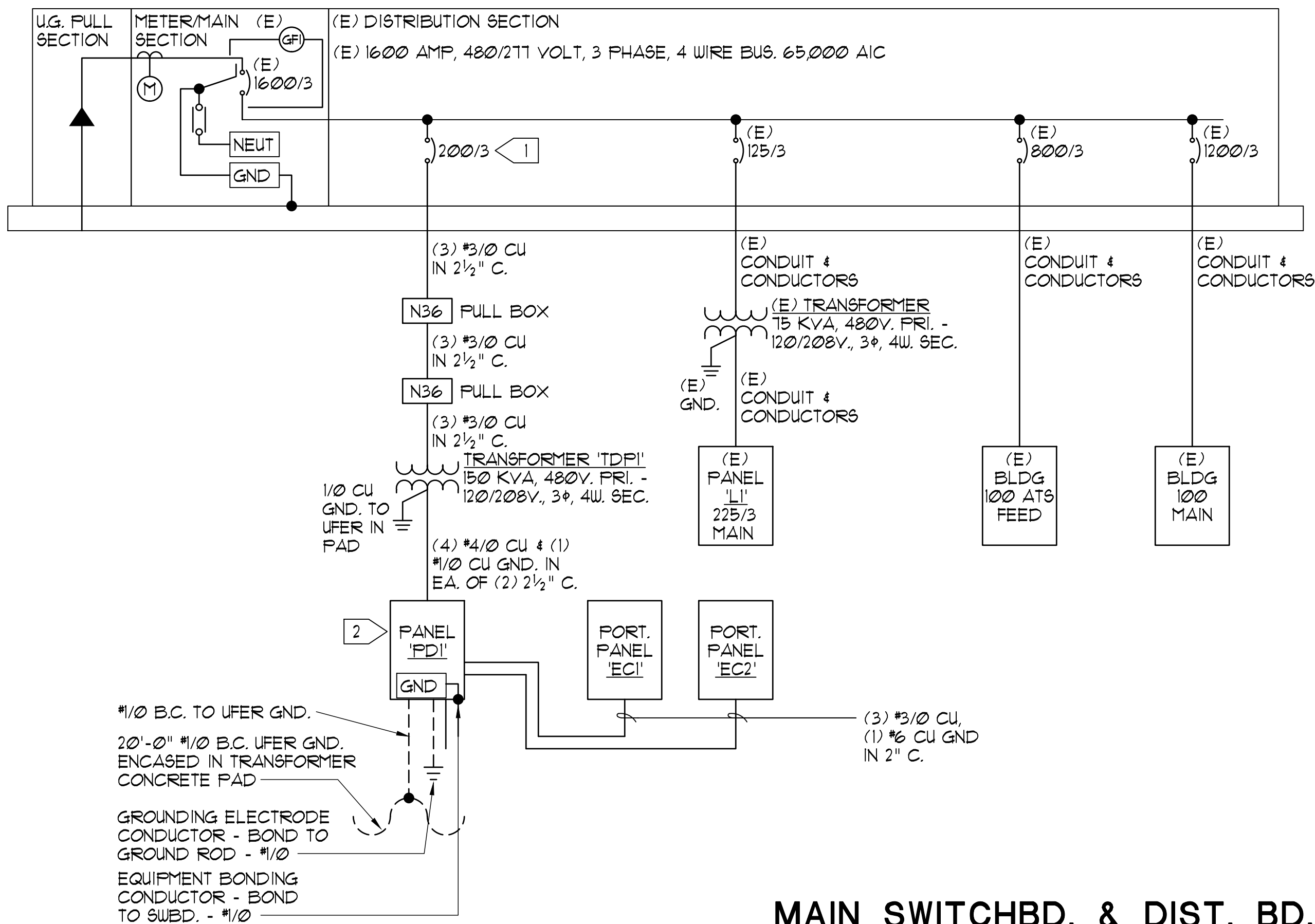
DRAWN BY:	
CHECKED BY:	
JOB NO.	20016

E1.0



(E) SWITCHBOARD - "S4"

(E) NEMA 3R ENCLOSURE



MAIN SWITCHBD. & DIST. BD. NOTE

1. PER 2019 CALIFORNIA ELECTRICAL CODE (CEC) SECTION 110.16, CONTRACTOR SHALL FIELD MARK THE EQUIPMENT TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE OF THE EQUIPMENT.

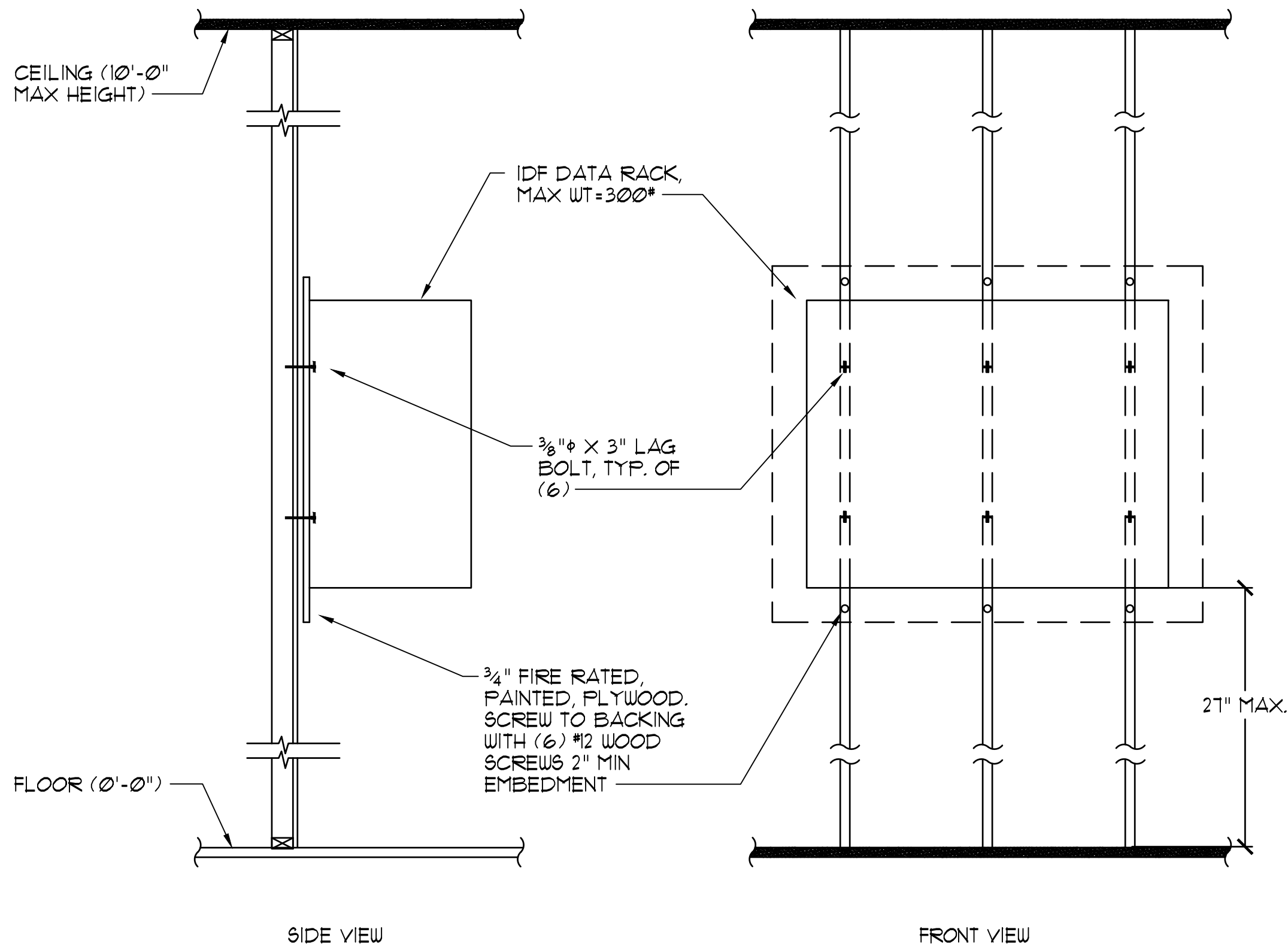
ONE LINE DIAGRAM

NO SCALE

A  
E1.1

NUMBERED NOTES

1. PROVIDE A 200 AMP, 480 VOLT, 3 PHASE, 65K AIC CIRCUIT BREAKER AND INSTALL IN SPACE NEXT TO (E) 125 AMP, 480 VOLT, 3 PHASE CIRCUIT BREAKER. MATCH (E) MANUFACTURER. COORDINATE EXACT SWITCHBOARD SHUT DOWN, WITH GENERATOR RUNNING TO KEEP (E) DATA CENTER UP AND RUNNING, WITH COLLEGE DISTRICT REPRESENTATIVE. PROVIDE ALL REQUIRED HARDWARE FOR A COMPLETE AND OPERATIONAL INSTALLATION.
2. DISTRIBUTION PANELS DO NOT NEED TO BE 42 SPACES. THEY CAN BE 24 TO 30 SPACE PANELS.

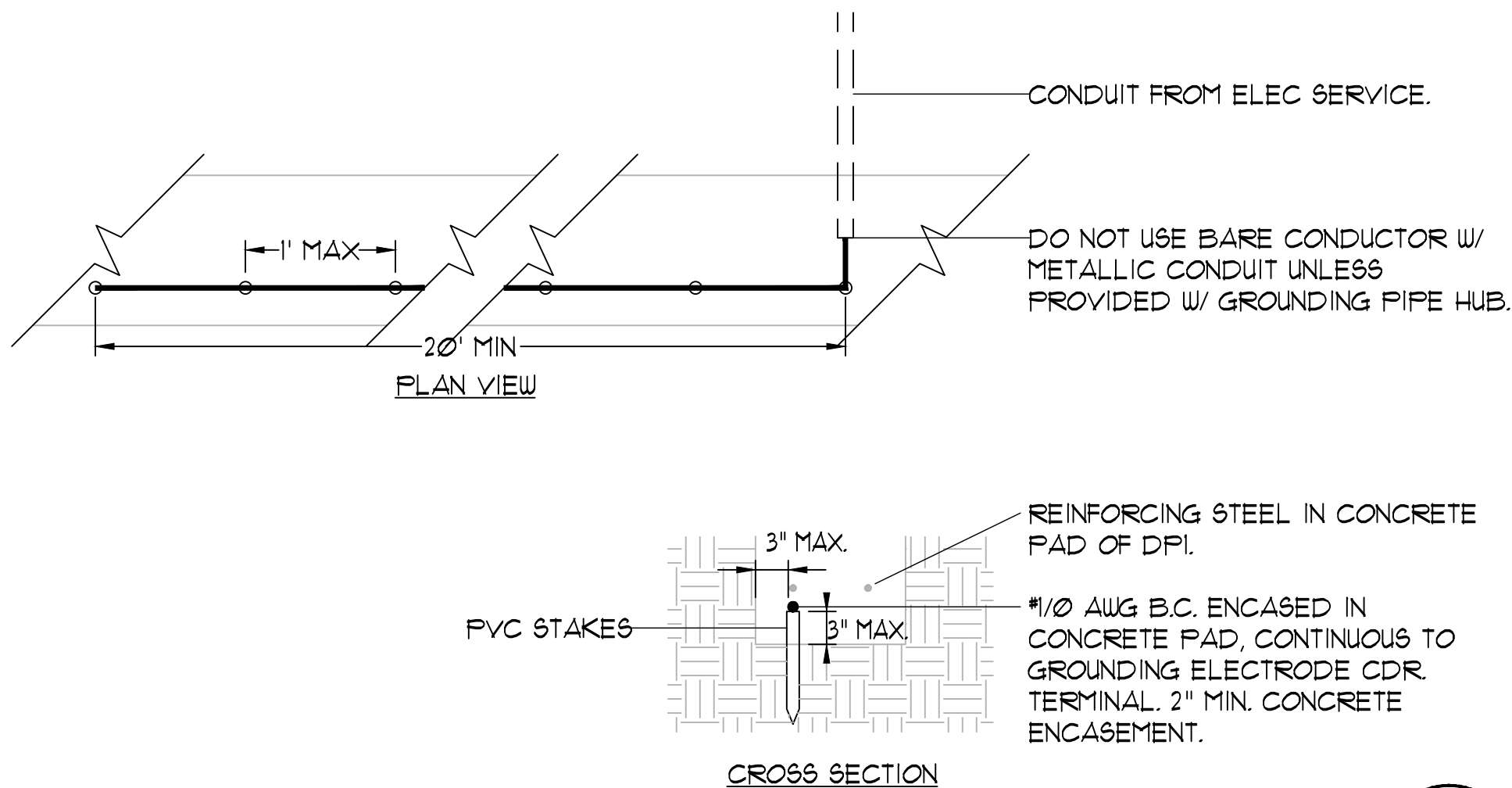


WALL MOUNTED IDF RACK DETAIL

SCALE: NONE

C

E1.1



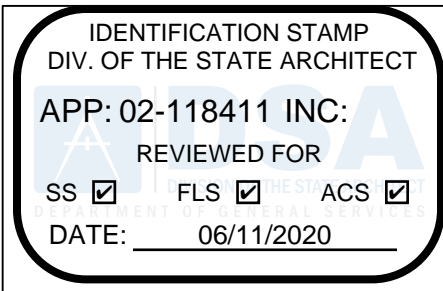
UFER GROUND DETAIL

NO SCALE

B

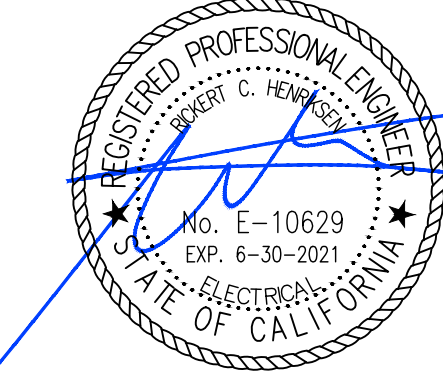
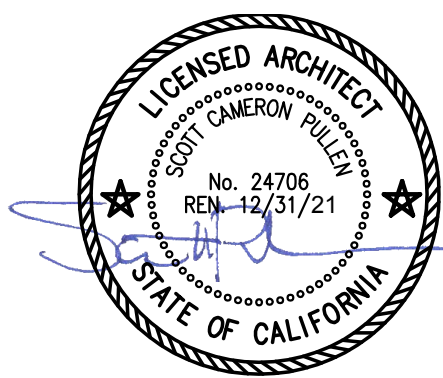
E1.1

120/208V. 3 Ph. 4W.											
PANEL PD1'						SURFACE MOUNTED					
AT ECHS PORTS						NEMA 3R					
DESCRIPTION	KVA	BKR	CKT	Ph. A	Ph. B	Ph. C	CKT	BKR	KVA	DESCRIPTION	
EC CLASSROOM 1	12.0	200/2	1	32.0			2		20.0		
	12.0		3		32.0		4	200/3	20.0		
EC CLASSROOM 2	12.0	200/2	5			32.0	6		20.0		FUTURE CHILD CARE
	12.0		7	12.0			8				SPACE
SPACE			9				10				SPACE
SPACE			11				12				SPACE
SPACE			13				14				SPACE
SPACE			15				16				SPACE
SPACE			17				18				SPACE
SPACE			19				20				SPACE
SPACE			21				22				SPACE
SPACE			23				24				SPACE
SPACE			25				26				SPACE
SPACE			27				28				SPACE
SPACE			29				30				SPACE
			31				32				
			33				34				
			35				36				
			37				38				
			39				40				
			41				42				
SUBTOTAL:				44.0	32.0	32.0					
CONNECTED LOAD		108.0 KVA									
25% LIGHTING LOAD		KVA									
25% LARGEST MOTOR		KVA									
TOTAL LOAD		108.0 KVA / 0.360 FACTOR =	300 AMPS		500 AMP MAIN BREAKER  FED FROM 150 KVA XFMR						



HMRARCHITECTS

2130 21st Street  
Sacramento, CA 95818  
T 916 736 2724



Date Signed: June 4, 2020



DSA #02-118411  
FILE #48-C1

EARLY COLLEGE  
PORTABLES

SOLANO COMMUNITY  
COLLEGE

4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

DSA APPROVED SET  
FOR CONSTRUCTION

REVISIONS

NO. DESCRIPTION DATE

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING  
HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED  
WORK OF HMR ARCHITECTS AND MAY NOT BE  
DUPLICATED, USED OR DISCLOSED WITHOUT THE  
WRITTEN CONSENT OF HMR ARCHITECTS

ELECTRICAL ONE LINE  
DIAGRAM & PANEL SCHEDULE

JUNE 1, 2020

DRAWN BY:

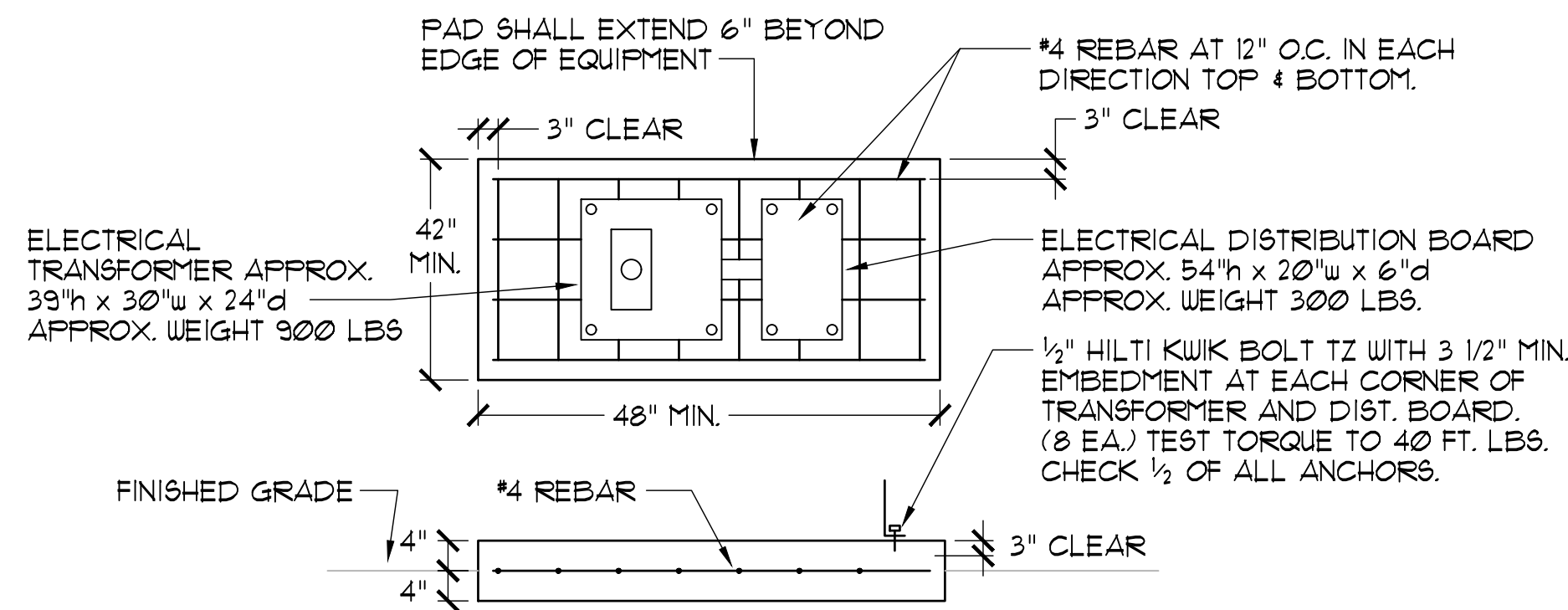
CHECKED BY:

JOB NO.

20016

E1.1





- NOTES**
- SPECIAL INSPECTION IS REQUIRED FOR CONCRETE TESTING. CONCRETE COMPRESSIVE STRENGTH IN 28 DAYS, 3000 PSI.
  - SPECIAL INSPECTION IS NOT REQUIRED FOR CONCRETE MIX DESIGN.
  - SPECIAL INSPECTION IS NOT REQUIRED FOR IDENTIFY, SAMPLE AND TESTING REINFORCING STEEL. SEE NOTE 1.
  - DEFORMED REINFORCING STEEL, ASTM A615 GR. 40
  - TRANSFORMER SHALL BE NEMA 3R WITH WEATHERPROOF SHIELD.
  - THE EQUIPMENT SIZES ARE APPROXIMATE AND WILL BE DETERMINED BY THE MANUFACTURER THE CONTRACTOR USES.
  - PROVIDE CERTIFIED MILL REPORTS TO INSPECTOR OF RECORD FOR SHIPMENT OF REINFORCEMENT.

### TRANSFORMER & DIST. BD. PAD DETAIL

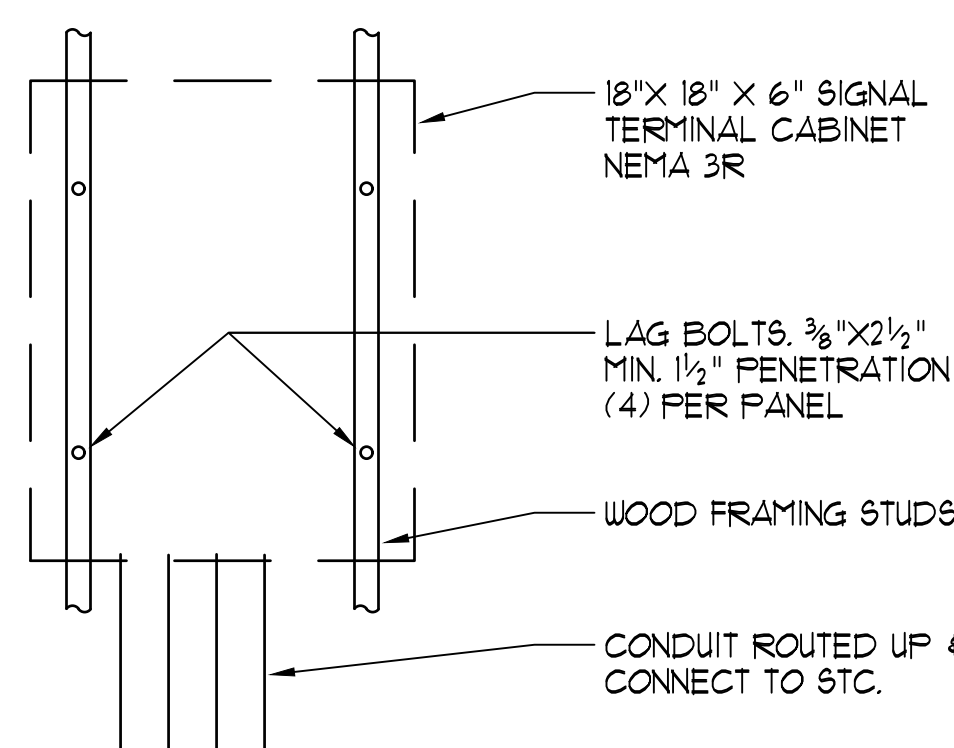
SCALE: NONE

C  
E1.2

### SIG. TERM. CAB. MOUNTING

SCALE: NONE

B  
E1.2

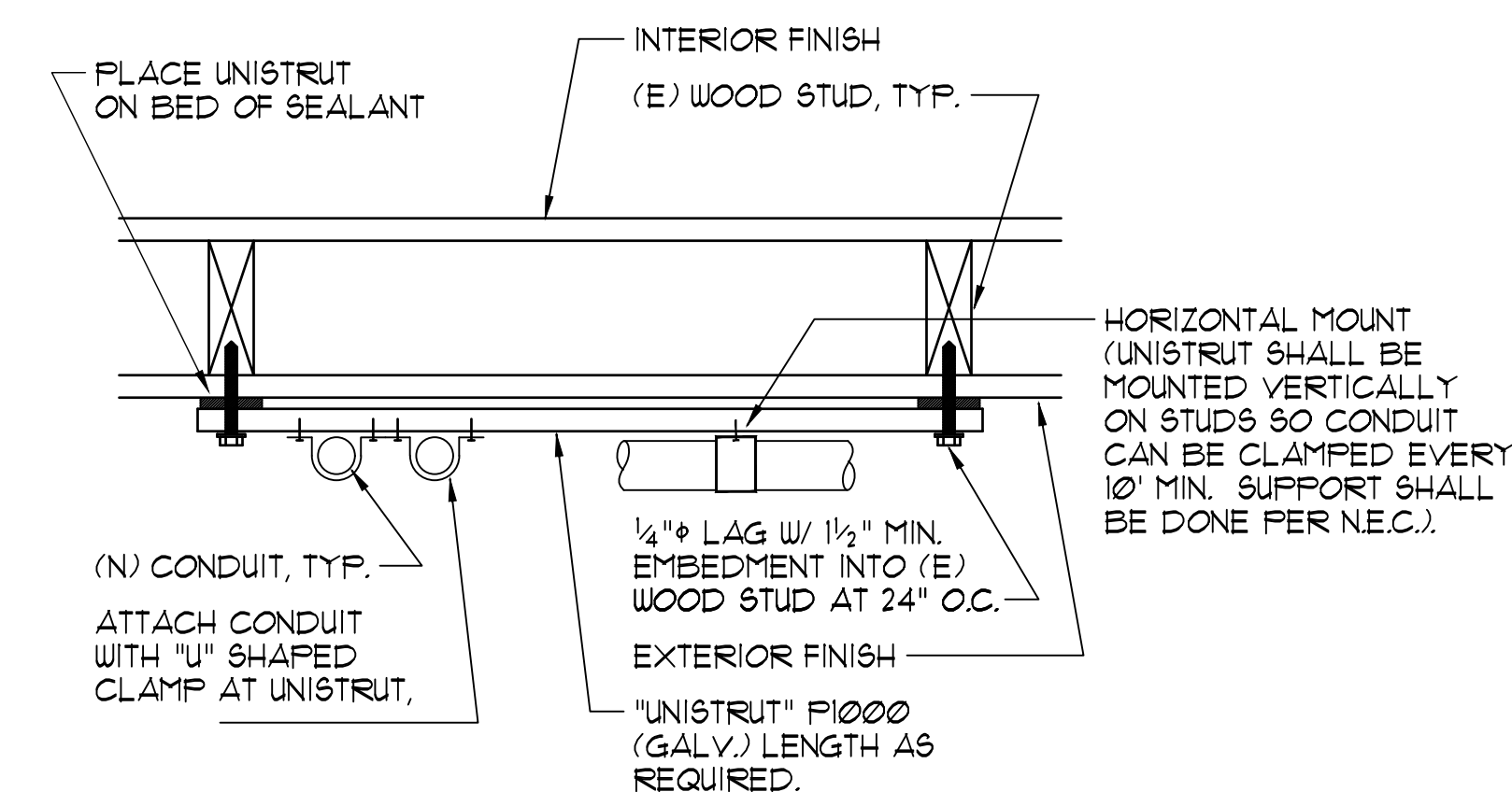


### CONDUIT SUPPORT DETAIL (WALL)

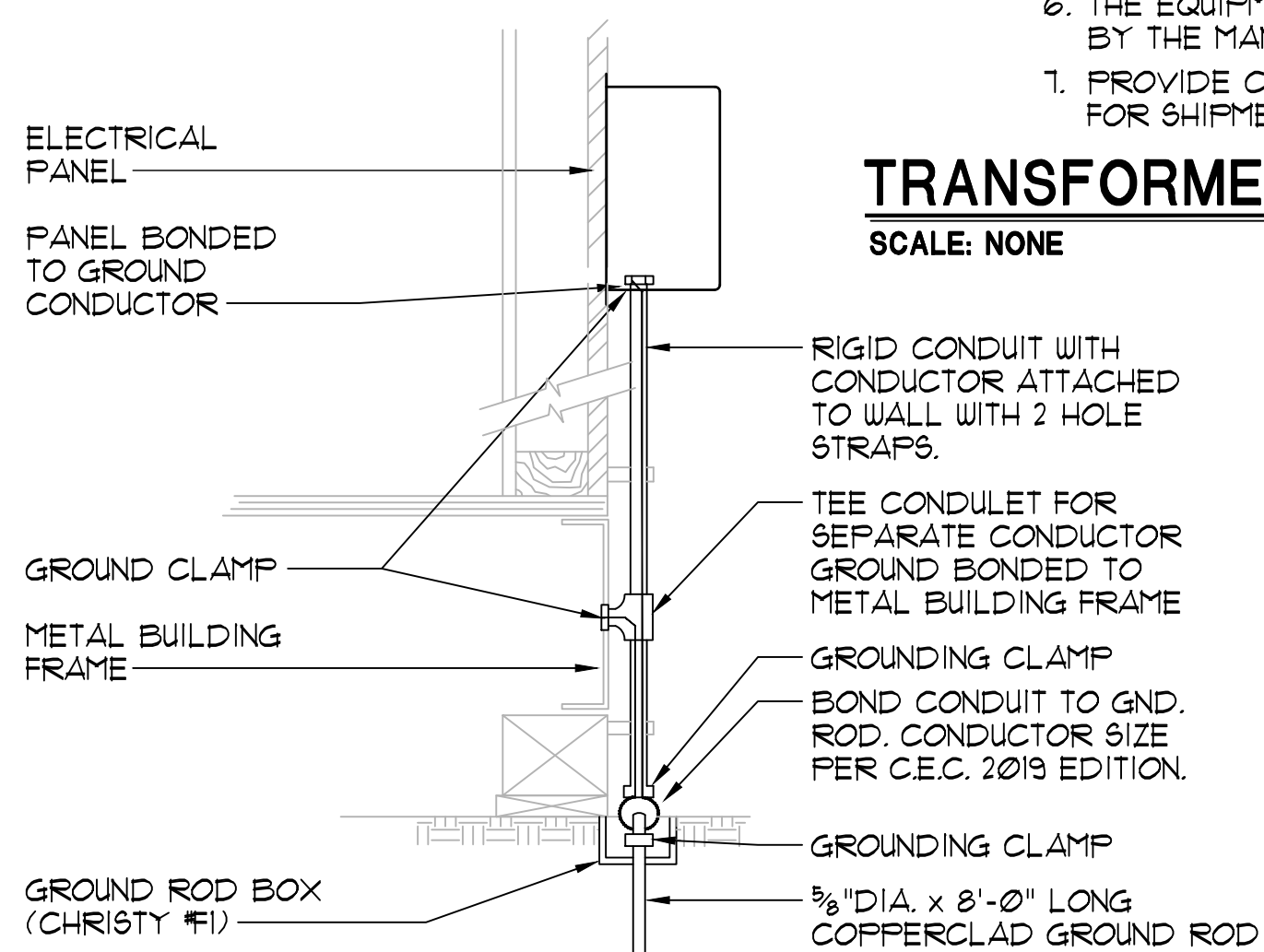
SCALE: NONE

(VERTICAL & HORIZONTAL)

A  
E1.2



- NOTES:**
- AT CMU WALL OR CONCRETE WALL, ATTACH UNISTRUT WITH ROMSET/REDHEAD 1/4" SHN-1413 SLEEVE ANCHOR (1 1/8" MIN. EMBEDMENT).
  - AT METAL STUD WALL, ATTACH UNISTRUT WITH #12 X 2" LONG SELF TAPPING SCREW (GALV.), AND WITH NEOPRENE (OVER-SIZED) WASHERS.
  - ALL HORIZONTAL AND VERTICAL UNISTRUT FOR MOUNTING SHALL BE A MINIMUM OF 12" LONG.



- NOTES:**
- SIZE OF CONDUCTORS SHALL COMPLY WITH 2019 C.E.C.
  - BOND TO SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL, METAL BUILDING FRAME & RAMP (2019 C.E.C.). GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10'-0" INTO THE SOIL IF AVAILABLE (C.E.C. 2019 EDITION).
  - ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
  - CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (C.E.C. 2019 EDITION).
  - PROVIDE GAS AND WATER BOND.
  - SITE INSPECTOR OF RECORD SHALL WITNESS AND VERIFY ALL TESTING.

### BUILDING GROUNDING DETAIL

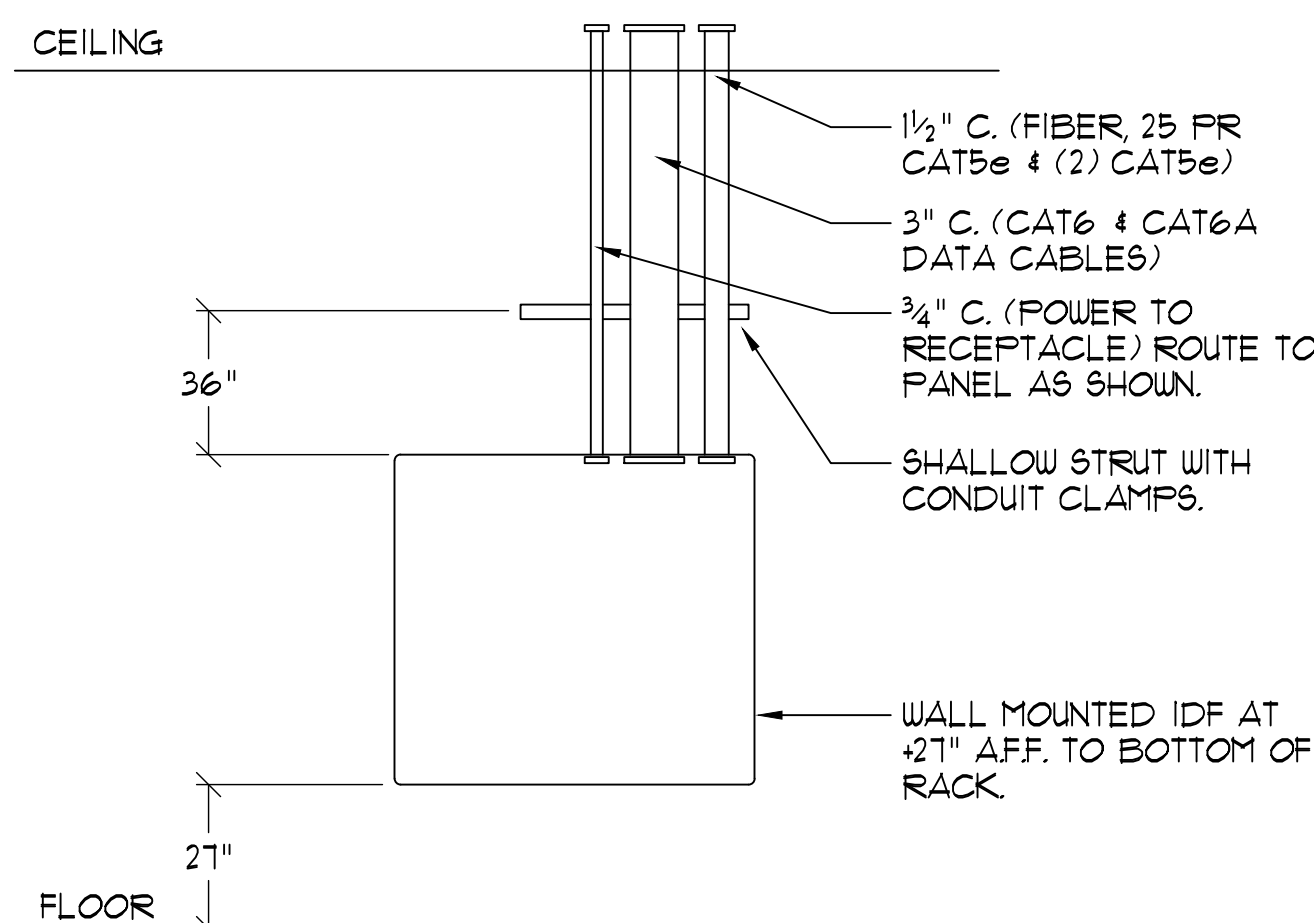
SCALE: NONE

G  
E1.2

### POWER CONNECTION DETAIL

SCALE: NONE

F  
E1.2



### TYP. CONDUIT TO IDF DETAIL

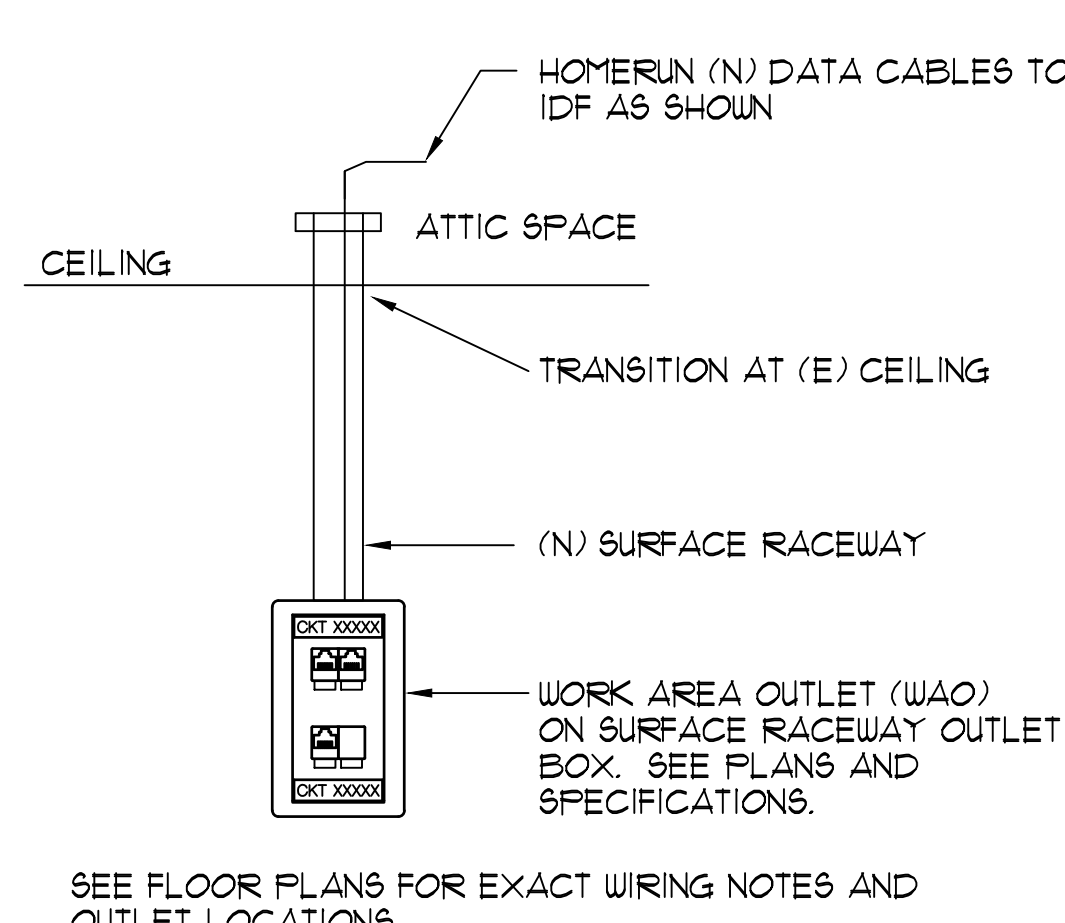
SCALE: NONE

J  
E1.2

### SIGNAL CONNECTION DETAIL

SCALE: NONE

E  
E1.2



### SURF. RACEWAY WALL MOUNTED

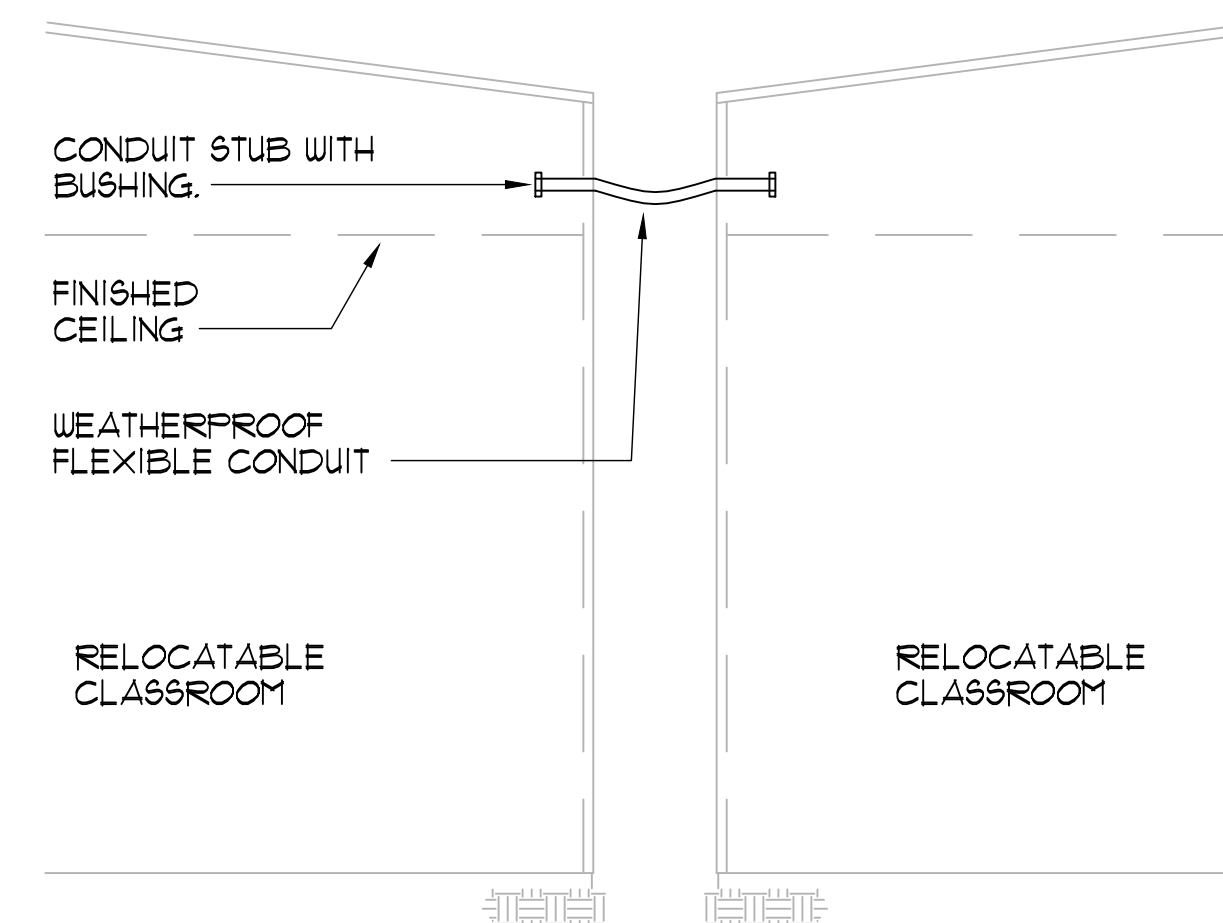
SCALE: NONE

I  
E1.2

### CONDUIT TRENCH DETAIL

SCALE: NONE

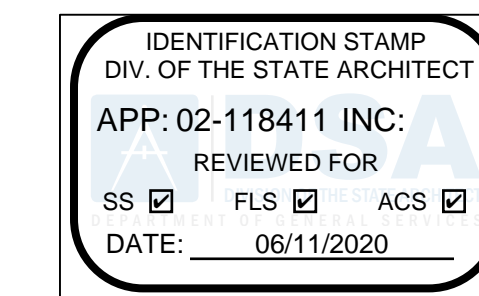
D  
E1.2



### SIGNAL CONDUIT BETWEEN BUILDINGS

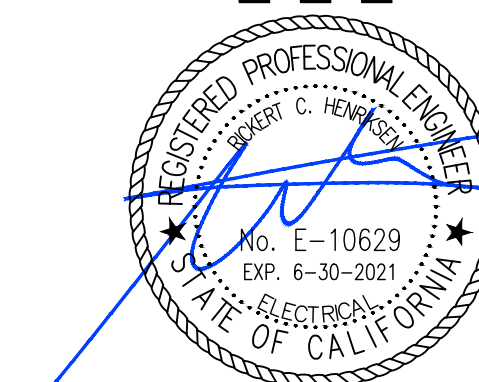
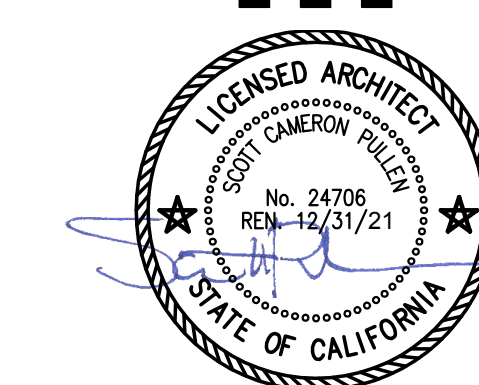
SCALE: NONE

H  
E1.2



**HMRARCHITECTS**

2130 21st Street  
Sacramento, CA 95818  
T 916 736 2724



Date Signed: June 4, 2020



**DSA #02-118411**  
**FILE #48-C1**

**EARLY COLLEGE**  
**PORTABLES**

**SOLANO COMMUNITY**  
**COLLEGE**

**4000 SUISUN VALLEY RD.**  
**FAIRFIELD, CA 94534**

**DSA APPROVED SET**  
**FOR CONSTRUCTION**

#### REVISIONS

NO.	DESCRIPTION	DATE

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED WORK OF HMR ARCHITECTS AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF HMR ARCHITECTS

ELECTRICAL DETAILS

JUNE 1, 2020

DRAWN BY:  
CHECKED BY:  
JOB NO.  
20016

**E1.2**



EST3 FACP BATTERY CALCULATIONS

Description	Qty	Standby Current (mA)	Total Standby (mA)	Alarm Current (mA)	Total Alarm (mA)
3-PPSM Power Supply	1	N/A	N/A	N/A	N/A
3-CPU1 Central Processor	1	70	70	80	80
3-FIB Fiber Optic Interface	1	100	100	100	100
3-LCD LCD Module	1	53	53	53	53
3-SSDC SIGA Controller *	1	195	195	233	233
3-12S1GY Annunciation Module	1	2	2	15	15
TOTALS	--	--	420	--	481

\* NOTE: The SIGA Device Controller is calculated with the maximum Signature addressable device load

Battery Requirement Calculation for 24 Hours Standby and 15 Minutes Alarm:  
Ampere Hours = [(Standby Current x Time)+(Alarm Current x Time)] x Derating Factor  
Ampere Hours = [(0.42A x 24 hrs)+(0.481A x 0.25 hrs)] x 1.2  
Ampere Hours = 12.1

BATTERIES SUPPLIED: (2) 12 Volts, 18 Ampere Hours (24 Volts, 18 Ampere Hours)

VOLTAGE DROP CALCULATION							
WIRE GAUGE (# 12) R=0.00198 ohm/FT							
	A	B	C	D			
NAC CIRCUIT	SOURCE VOLTAGE	TOTAL AMP	WIRE LENGTH (FEET)	VOLT DROP (2XRxBXC)	% DROP (D/A)	VOLTAGE AT LAST DEVICE (A-D)	AUDIO WATTS
#1-1	20.4	0.336	110	0.15	0.72	20.25	2.00

FIRE ALARM SYSTEM OPERATIONAL MATRIX							
CAUSE	EFFECT	ALARM AT 'FACP'	ACTIVATE AUDIBLES	ACTIVATE VISUALS	TROUBLE AT 'FACP'	DEACTIVATE AUDIBLES/VISUALS	SYSTEM NORMAL
MANUAL FULL STATION		X	X	X			X
SMOKE & HEAT DETECTORS		X	X	X			X
SYSTEM RESET						X X	X
SYSTEM SILENCE						X X	X
AC POWER FAILURE AT 'FACP'					X		X
F.A. TROUBLE (OPEN, SHORTS, OR GROUNDS) ON INITIATION, OR SIGNALING.					X		X

FIRE ALARM NOTES

- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS & 2019 CBC SEC. 907.
- THE FIRE ALARM SYSTEM SHALL CONFORM TO CAL. ELEC. CODE AND ARTICLE 91. INSTALLATION OF THE SYSTEM SHALL NOT BEGIN UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CSM LISTING NUMBERS FOR EACH COMPONENT, HAVE BEEN APPROVED BY DSA. UPON COMPLETION OF THE INSTALLATION, A TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DSA INSPECTOR OF RECORD.
- 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 MARSHAL APPROVED AND LISTED (NFPA T2, SEC. 10.5.2.1)
- 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 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH-EVER 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 T2, SEC. 10.4.3.1)
- ALL FIRE ALARM CABLE SHALL BE INSTALLED IN 1/2" CONDUIT MINIMUM. ALL ROUTINGS SHALL BE CONCEALED. PROVIDE A FULL ROPE IN ALL UNUSED CONDUIT RUNS.
- ALL STROBES SHALL BE SYNCHRONIZED TO FLASH AT THE SAME TIME WITH ONE ANOTHER PER 2016 NFPA T2.

FIRE ALARM EQUIPMENT SCHEDULE			
SYMBOL	CATALOG #	DESCRIPTION	
	EDWARDS EST3 PANEL WITH (1) 3-CPU3 (1) 3-LCD (1) 3-FPS/M (1) 3-SSDC1 (1) 3-ZA40B (1) 3-CAB5 & BC-1 (1) 3-12/SIGY (1) 3-FIBMB2 (4) MMXVR	VOICE EVAC CONTROL PANEL CONNECTED TO CAMPUS WIDE NETWORK VIA FIBER OPTIC CABLE. SEPARATE BATTERY CABINET WITH (2) 18.0 AH BATTERIES	T163-1651:0186
	EDWARDS SIGA-2T8	ADDRESSABLE MANUAL FULL STATION	T150-1651:0129
	EDWARDS SIGA-OSD SIGA-SB	ADDRESSABLE SMOKE DETECTOR & BASE	T272-1651:0511 T300-1651:0120
	SYSTEM SENSOR 5602 WITH A SIGA-CTHT	194" ATTIC HEAT DET. AND AN ADDRESSABLE MONITOR MODULE	T270-1653:0167 T300-1651:0121
	EDWARDS GCHFWF-S1VVC	ADDRESSABLE SYNC. OUTPUT MODULE FOR NAC CIRCUIT.	T300-1651:0121
		CEILING MOUNTED SPEAKER/STROBE (15 CANDELA)	T320-1651:0211

NOTES:

- THE (N) FIRE ALARM SYSTEM IS AN APPROVED FULLY AUTOMATIC VOICE EVAC SYSTEM WITH MANUAL DEVICES TO COMPLY WITH THE GREEN OAKS FAMILY ACADEMY ELEMENTARY SCHOOL FIRE PROTECTION ACT (SB 515).
- FIRE ALARM AUDIBLES SHALL HAVE THE SAME BASIC SOUND & PATTERN & SOUND THE CALIFORNIA UNIFORM FIRE ALARM SIGNAL IN TEMPORAL MODE.
- THE FIRE ALARM CONTROL PANEL SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA T2 AS AMENDED BY ARTICLE 91 OF THE CALIFORNIA FIRE CODE. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UJFX OR UJUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
- ALL FIRE ALARM STROBES SHOWN ON PLANS SHALL BE ASSUMED TO BE 15 CANDELA (cd) STROBES, UNLESS OTHERWISE NOTED.

FIRE ALARM CABLE SCHEDULE

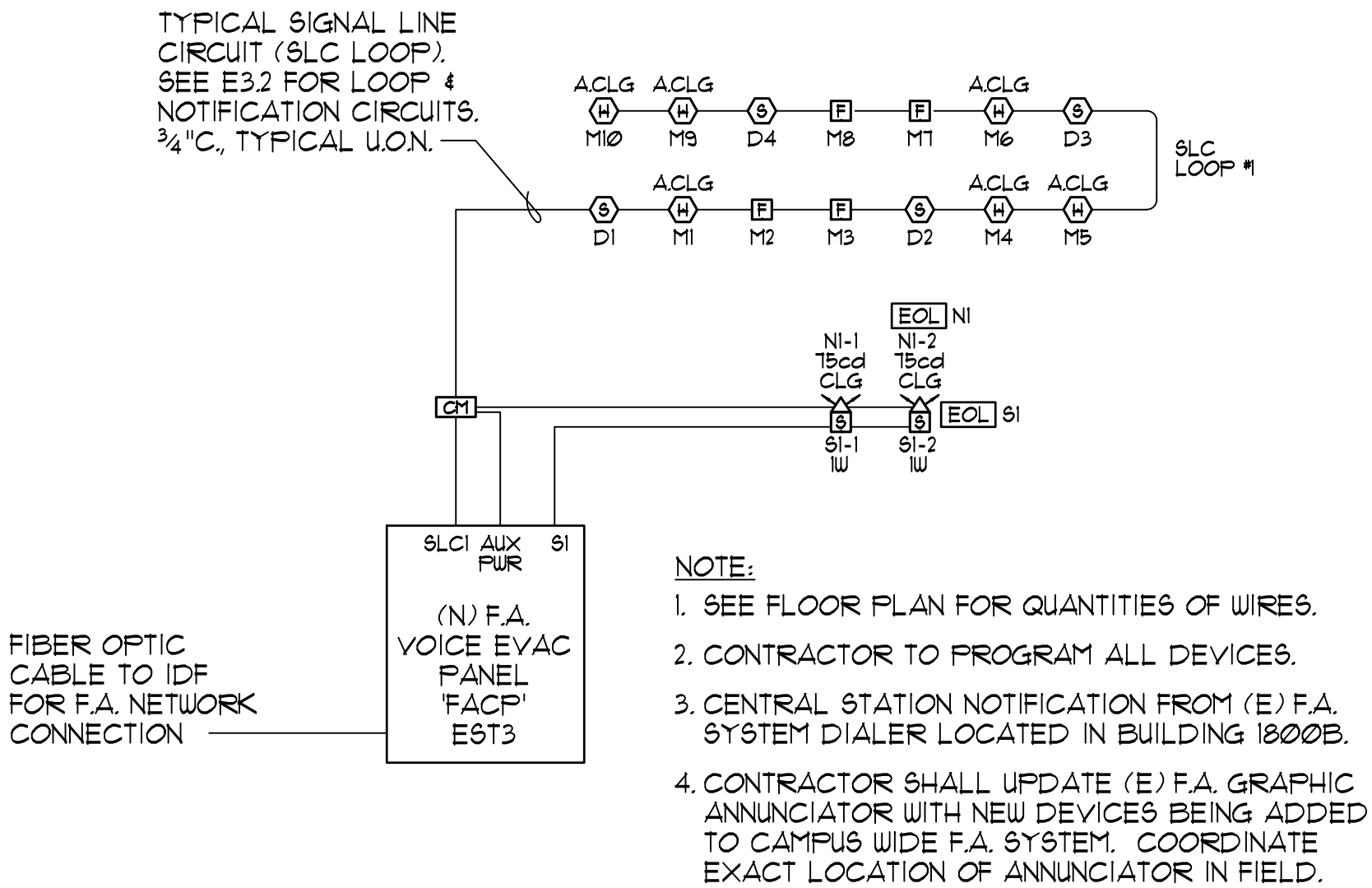
TYPE	DESCRIPTION
A	(2) #16 TWISTED/UNSHIELDED (F.A. SIGNALING LOOP CIRCUIT) WEST PENN #390.
B	(2) #12 THIN CU (F.A. NOTIFICATION APPLIANCE CIRCUIT)
C	(2) #14 TWISTED/SHIELDED (F.A. SPEAKER CIRCUIT) WEST PENN #395.

FIRE ALARM SYSTEM NOTES

- F.A. SYSTEM SHALL CONFORM TO 2019 CALIFORNIA BUILDING CODE SECTION 907.2.3, 2019 CALIFORNIA ELECTRICAL CODE, ARTICLE 160 & NFPA T2, 2016 EDITION. COMPONENT SHALL BE AS SPECIFIED ON THE DRAWINGS. THE MANUFACTURERS FACTORY TRAINED AND AUTHORIZED REPRESENTATIVE SHALL PERFORM OR SUPERVISE THE INSTALLATION. UPON COMPLETION OF INSTALLATION, THIS PERSON SHALL EXECUTE A SATISFACTORY TEST OF THE ENTIRE SYSTEM IN THE PRESENCE OF THE DSA INSPECTOR. TESTING SHALL ALSO INCLUDE A BATTERY TEST. OPERATE SYSTEM FOR 24 HOURS WITHOUT INPUT POWER & PERFORM A (5) FIVE MINUTE ALARM TEST OF THE ENTIRE SYSTEM AT THE END OF 24 HOURS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE SYSTEM COMPLETE AND OPERATIONAL.
- COMPLETE FIRE ALARM SUBMITTAL INCLUDED.
- THE FIRE ALARM SYSTEM SHALL CONFORM TO NOTE #1 AND ALSO CONFORM TO SB 515. THE F.A. DEVICES SHALL BE AUTOMATIC AND MONITORED BY AN APPROVED SUPERVISING STATION THAT IS LISTED AS EITHER UJFX OR UJUS BY UNDERWRITERS LAB. OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.

FIRE ALARM SCOPE OF WORK

THE COLLEGE IS GETTING (2) NEW 36" X 40" PORTABLES WITH A NEW FIRE ALARM VOICE EVACUATION SYSTEM. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW FIRE ALARM SYSTEM FOR A COMPLETE & OPERATIONAL INSTALLATION. PLANS CALL OUT FOR FIRE ALARM MANUFACTURER THAT THE SCHOOL DISTRICT IS CURRENTLY USING AND SHALL BE USED FOR THIS PROJECT. CONTACT QUALITY SOUND AT (209) 948-2104 FOR EQUIPMENT AND INSTALLATION.



FIRE ALARM RISER DIAGRAM

SCALE: NONE

B

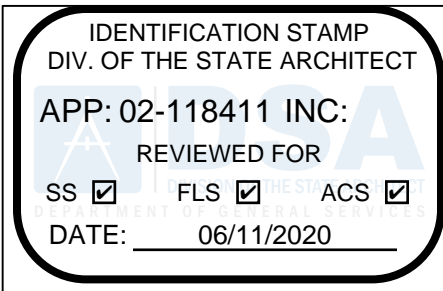
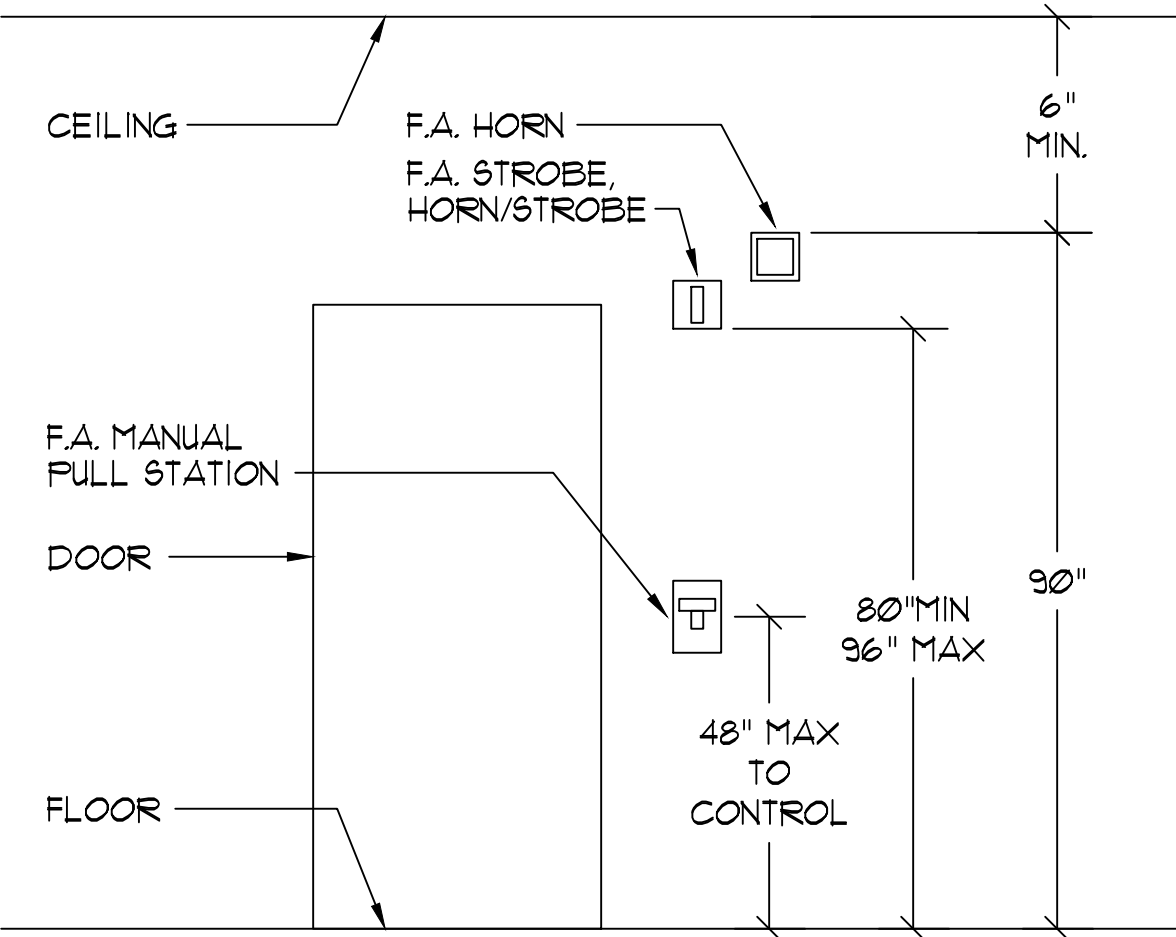
E1.3

F.A. DEVICE ELEVATION DETAIL

SCALE: NONE

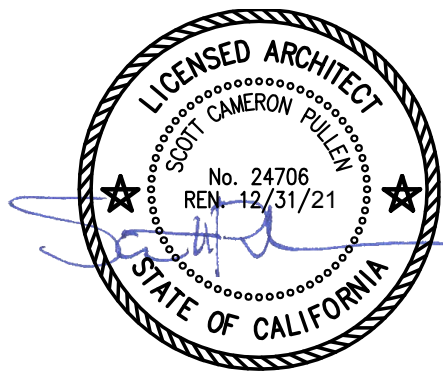
A

E1.3



HMRARCHITECTS

2130 21st Street  
Sacramento, CA 95818  
T 916 736 2724



Date Signed: June 4, 2020



DSA #02-118411  
FILE #48-C1

EARLY COLLEGE  
PORTABLES

SOLANO COMMUNITY  
COLLEGE

4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

DSA APPROVED SET  
FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE
-----	-------------	------

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED WORK OF HMR ARCHITECTS AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF HMR ARCHITECTS

FIRE ALARM CALCULATIONS,  
SCHEDULES, NOTES & RISER  
DIAGRAM

JUNE 1, 2020

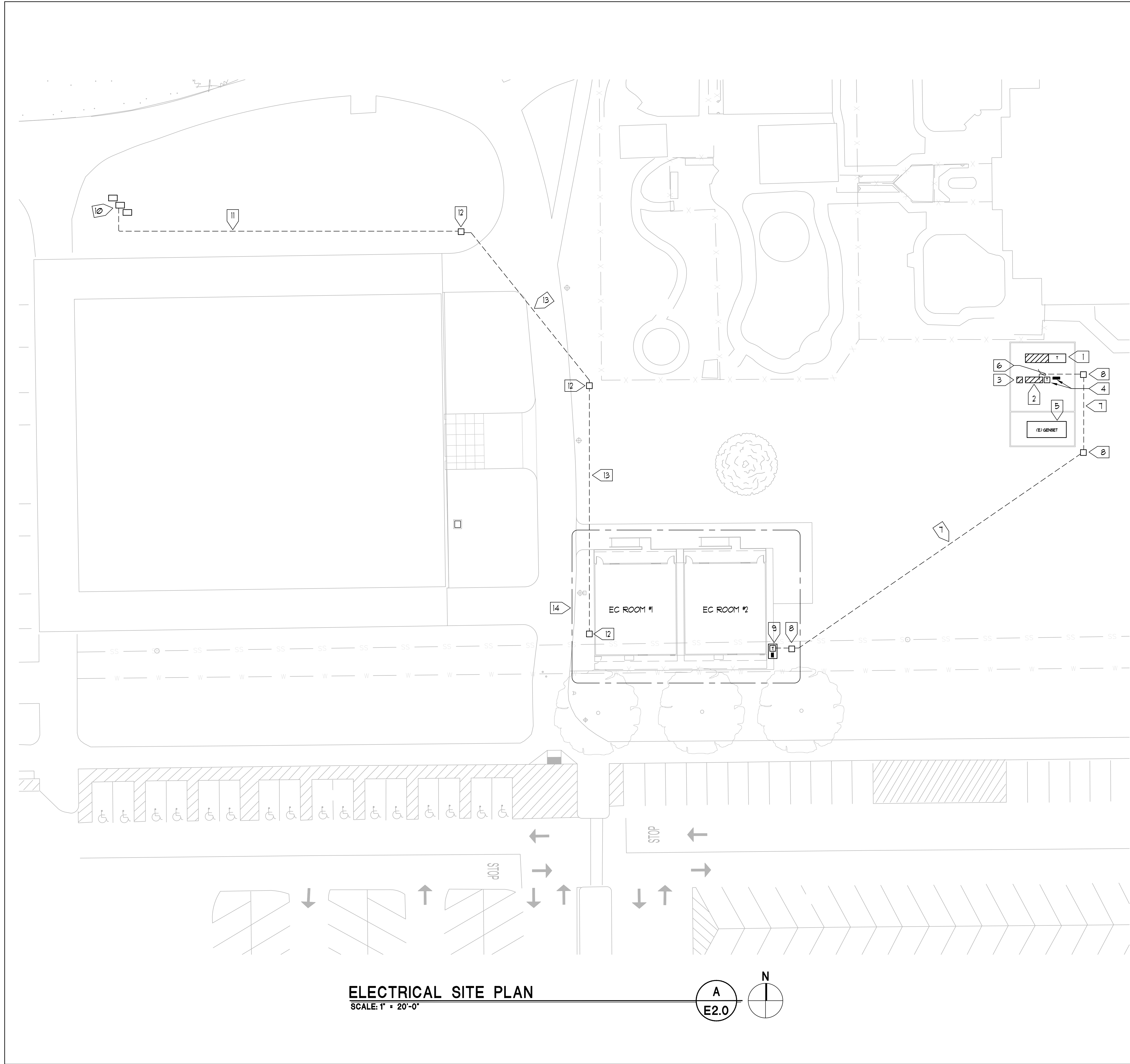
DRAWN BY:

CHECKED BY:

IDB NO.  
20016

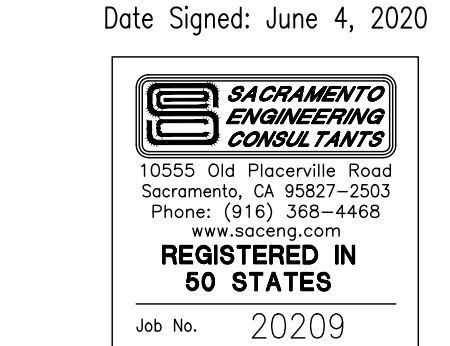
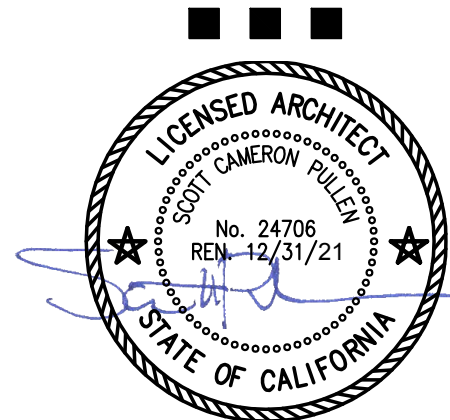
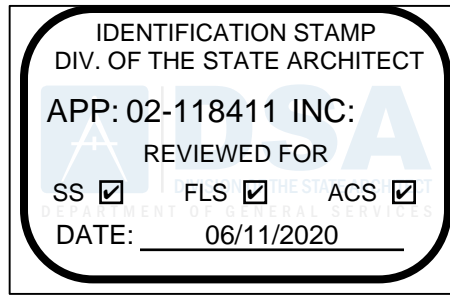
E1.3





NUMBERED NOTES

- 1
- (E) 4000 AMP, 480/277 VOLT, 3 PH, 4 W. SUBSTATION #4 SWITCHBOARD AND TRANSFORMER TO REMAIN.
- 2
- (E) 1600 AMP, 480/277 VOLT, 3 PH, 4 W. SWITCHBOARD 'S4' TO REMAIN. SEE ONE LINE DIAGRAM A/E11.
- 3
- (E) 800 AMP, 480 VOLT, ATS TO REMAIN.
- 4
- (E) 75 KVA TRANSFORMER AND 208/120 VOLT, 3 PH, 4 W. PANEL 'L1' TO REMAIN.
- 5
- (E) KOHLER GENERATOR TO REMAIN.
- 6
- SAWCUT THE CONCRETE PAD AND ROUTE NEW ELECTRICAL FEEDER OUT THE BACK OF THE MAIN SWITCHBOARD, THEN TO BELOW GRADE AND OUT OF THE FENCED IN AREA TO PULL BOX AS SHOWN. SEE ONE LINE DIAGRAM A/E11 FOR SIZE & QUANTITY OF CONDUIT AND CONDUCTORS. USE CAUTION WHEN SAW CUTTING AS THERE IS A GROUNDING RING IN THE PAD.
- 7
- NEW ELECTRICAL FEEDER ROUTED BELOW GRADE BETWEEN PULL BOXES. SEE ONE LINE DIAGRAM A/E11 FOR SIZE & QUANTITY OF CONDUIT AND CONDUCTORS.
- 8
- PROVIDE AND INSTALL A CHRISTY N36 PULL BOX (ELECTRICAL), REINFORCED CONCRETE LID AND EXTENSIONS. BACKFILL AROUND BOX TO MATCH CONDITIONS. PROVIDE BELL ENDS ON ALL CONDUITS IN BOX FOR CABLE PROTECTION.
- 9
- NEW TRANSFORMER AND DISTRIBUTION PANEL 'PDI'. PROVIDE A CONCRETE HOUSEKEEPING PAD FOR THE TRANSFORMER AND PANEL. SEE DETAIL C/E12. SEE ONE LINE DIAGRAM A/E11 FOR SIZE & QUANTITY OF CONDUIT AND CONDUCTORS ROUTED FROM PULL BOX TO TRANSFORMER. SEE DISTRIBUTION PANEL SCHEDULE ON SHEET E11. SEE SHEET E3.0 FOR POWER FROM DISTRIBUTION PANEL TO EACH PORTABLE BUILDING.
- 10
- (E) SIGNAL PULL BOX WITH 288 SINGLE MODE FIBER OPTIC (SMFO) TRUNK CABLE. PROVIDE A 12 STRAND SMFO CABLE AND CONNECT TO SMFO TRUNK CABLE. COORDINATE CONNECTION OF 12 STRAND SMFO CABLE TO TRUNK CABLE WITH COLLEGE IT DEPARTMENT.
- 11
- FROM PULL BOX WITH SMFO TRUNK CABLE, ROUTE 12 STRAND SMFO CABLE IN (1) 2" CONDUIT WITH 1½" INNER DUCT & PULL ROPE AND (1) 2" SPARE CONDUIT WITH PULL ROPE, BELOW GRADE TO NEW PULL BOX AS SHOWN. PROVIDE BELL ENDS ON CONDUITS IN PULL BOX FOR CABLE PROTECTION.
- 12
- PROVIDE A CHRISTY N36 PULL BOX (COMMUNICATIONS), REINFORCED CONCRETE LID AND EXTENSIONS. BACKFILL AROUND BOX TO MATCH EXISTING CONDITIONS. PROVIDE BELL ENDS ON ALL CONDUITS IN BOX FOR CABLE PROTECTION.
- 13
- FROM PULL BOX, ROUTE 12 STRAND SMFO CABLE IN (1) 2" CONDUIT WITH 1½" INNER DUCT & PULL ROPE AND (1) 2" SPARE CONDUIT WITH PULL ROPE, BELOW GRADE TO NEW PULL BOX AS SHOWN. PROVIDE BELL ENDS ON CONDUITS IN BOX FOR CABLE PROTECTION.
- 14
- NEW PORTABLE CLASSROOMS. SEE FLOOR PLAN SHEETS E3.0 & E3.1 FOR WORK REQUIRED IN THIS AREA.



DSA #02-118411  
FILE #48-C1

EARLY COLLEGE  
PORTABLES

SOLANO COMMUNITY  
COLLEGE

4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

DSA APPROVED SET  
FOR CONSTRUCTION

REVISIONS		
NO.	DESCRIPTION	DATE

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED WORK OF HMR ARCHITECTS AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF HMR ARCHITECTS

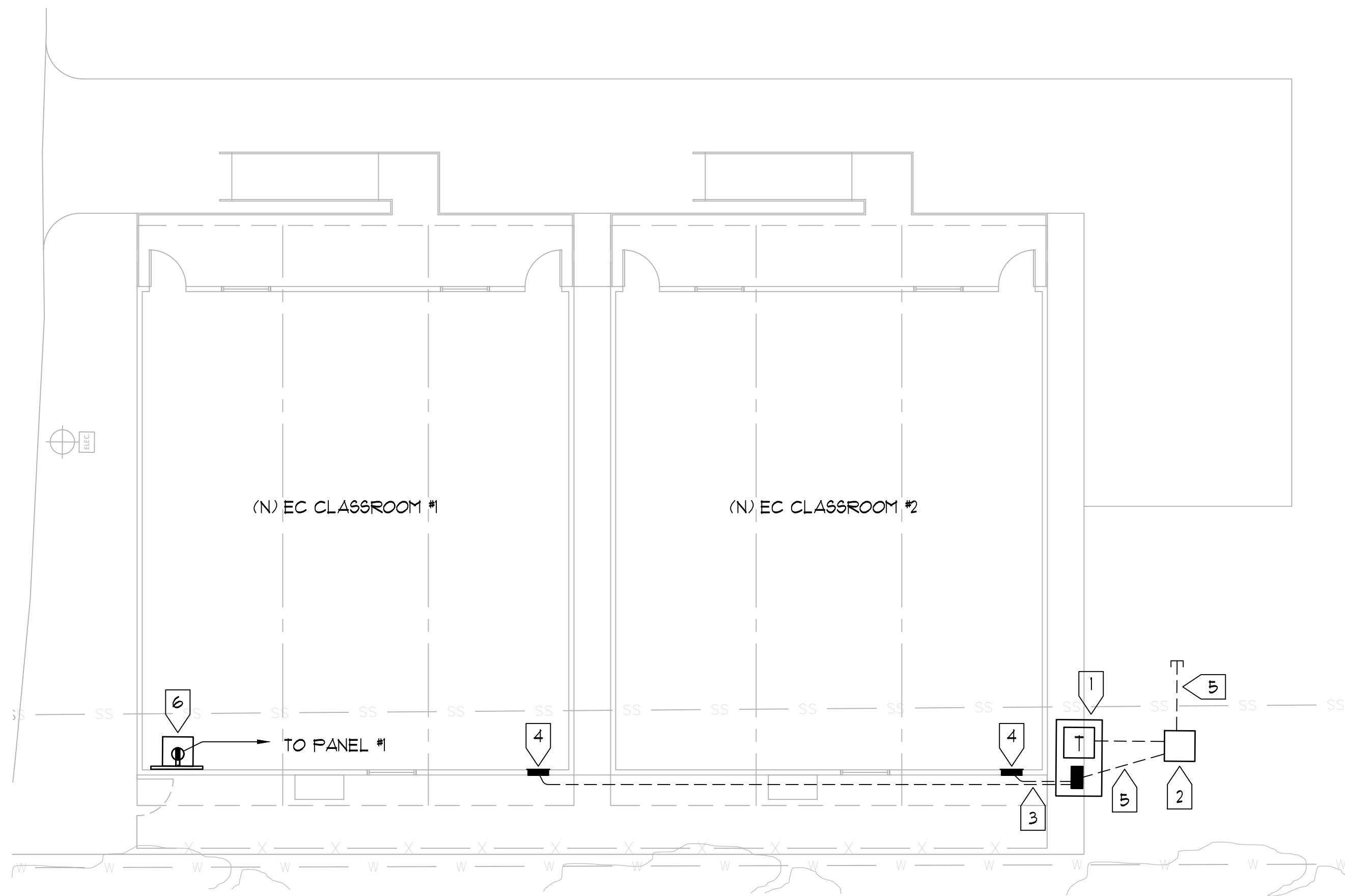
ELECTRICAL SITE PLAN &  
NOTES

JUNE 1, 2020

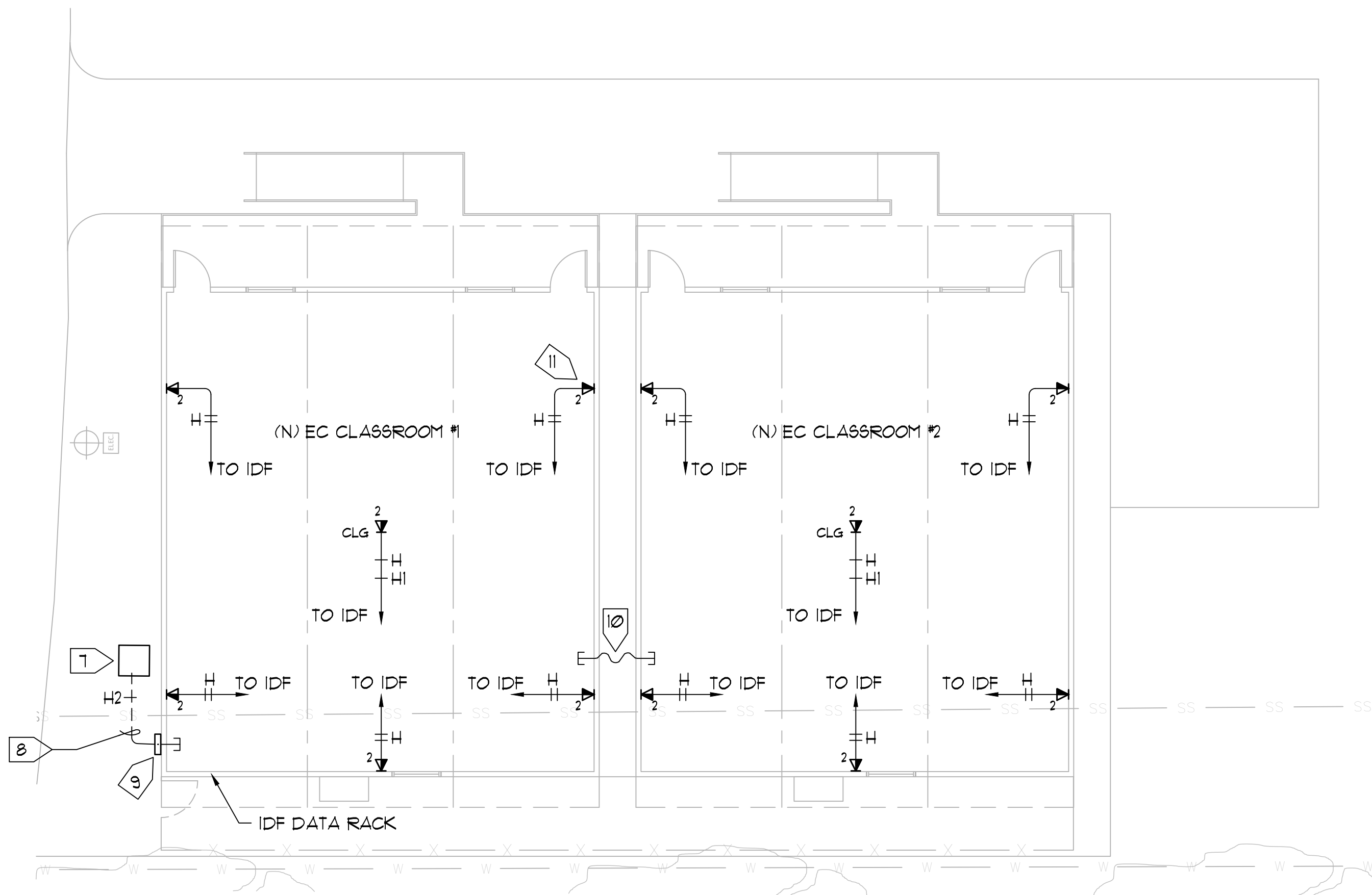
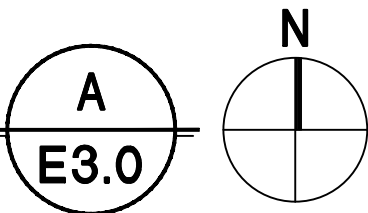
DRAWN BY:	E2.0
CHECKED BY:	
JOB NO.	

20016

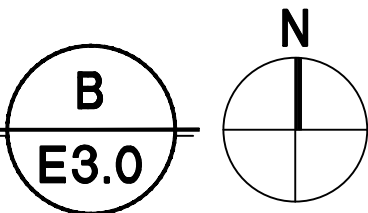




ENLARGED POWER PLAN  
SCALE: 1/8" = 1'-0"



ENLARGED SIGNAL PLAN  
SCALE: 1/8" = 1'-0"



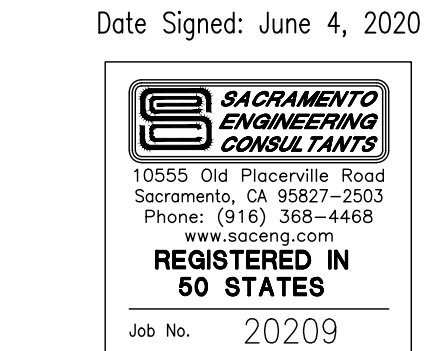
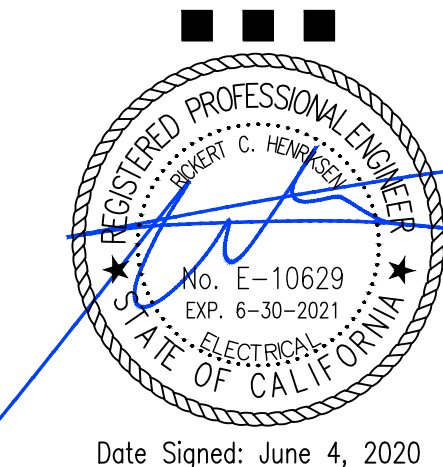
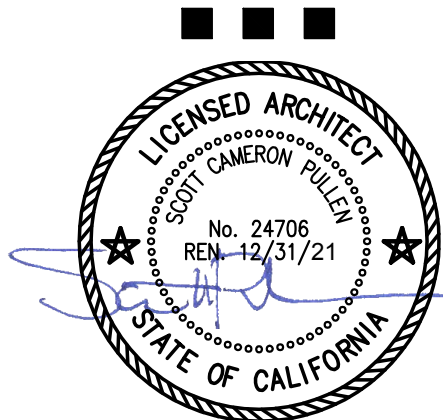
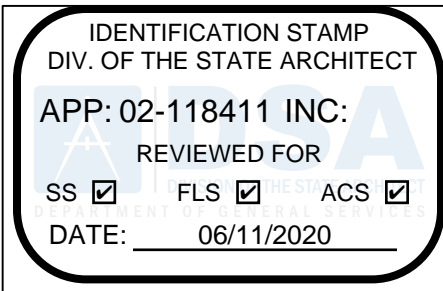
NUMBERED NOTES

- 1 NEW TRANSFORMER AND DISTRIBUTION PANEL 'DPI'. SEE SITE PLAN SHEET E2.0 AND ONE LINE DIAGRAM A/E11.
- 2 NEW POWER PULL BOX WITH ELECTRICAL FEEDER TO TRANSFORMER. SEE SITE PLAN SHEET E2.0.
- 3 ELECTRICAL FEEDER FROM DPI TO EACH PORTABLE BUILDING ELECTRICAL PANEL. SEE ONE LINE DIAGRAM A/E11 FOR SIZE & QUANTITY OF CONDUIT AND CONDUCTORS.
- 4 PORTABLE ELECTRICAL PANEL. PANEL IS SUPPLIED WITH THE BUILDING. CONTRACTOR TO CONNECT FEEDER TO PANEL AND GROUND PANEL PER DETAILS F & G/E12 FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- 5 PROVIDE (2) 2" CONDUITS WITH PULL ROPE FROM DISTRIBUTION PANEL AND ROUTE OVER TO PULL BOX AS SHOWN. FROM PULL BOX, ROUTE (2) 2" CONDUITS 5' OUT FROM BOX AS SHOWN AND CAP. CAP CONDUIT IN PULL BOX FOR FUTURE USE. USE CAUTION TO NOT HIT SEWER LINE WHILE TRENCHING.
- 6 NEW IDF DATA RACK. RACK AND EQUIPMENT PROVIDED BY COLLEGE DISTRICT IT DEPARTMENT. PROVIDE 3/4" TYPE A-C PLYWOOD AND INSTALL TO WALLS AS SHOWN WITH SANDED SIDE EXPOSED. PROVIDE (3) COATS OF FIRE-RETARDANT WHITE PAINT. MOUNT RACK WITH BOTTOM AT +21" AFF. PROVIDE A DEDICATED 20 AMP RECEPTACLE FOR POWER TO UPS. COORDINATE EXACT NEMA CONFIGURATION WITH UPS AND DISTRICT IT DEPARTMENT. PROVIDE A 20 AMP, 1 POLE, CIRCUIT BREAKER AND INSTALL IN PORTABLE ELECTRICAL PANEL. ROUTE CIRCUITING TO PANEL AND CONNECT TO CIRCUIT BREAKER FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- 7 SIGNAL PULL BOX. SEE SITE PLAN SHEET E2.0 FOR SIZE OF PULL BOX.
- 8 FROM PULL BOX, ROUTE 12 STRAND 9MFO CABLE IN (1) 2" CONDUIT WITH 1 1/2" INNER DUCT & PULL ROPE AND (1) 2" SPARE CONDUIT WITH PULL ROPE, BELOW GRADE OVER TO NEW RELOCATABLE AND ROUTE UP THE WALL TO NEW SIGNAL TERMINAL CABINET - STC. CONNECT CONDUITS TO STC. USE CAUTION TO NOT HIT SEWER LINE WHILE TRENCHING. SEE DETAIL E/E12 FOR CONDUIT ROUTING & SUPPORT.
- 9 PROVIDE A 18" X 18" X 6", LOCKABLE, NEMA 3R, SIGNAL TERMINAL CABINET AND INSTALL HIGH ON THE WALL. SEE DETAIL B & E/E12 FOR CONNECTION. FROM STC, STUB INTO ACCESSIBLE CEILING SPACE (2) 2" (SIGNAL) CONDUITS A MINIMUM OF 6" AND PROVIDE A BUSHING ON END OF CONDUITS TO PROTECT 9MFO SIGNAL CABLES. FROM STC, ROUTE 12 STRAND 9MFO CABLE INTO ATTIC AND OVER TO ABOVE IDF. ROUTE DOWN WALL IN 2" CONDUIT WITH 1 1/2" INNER DUCT TO NEW IDF RACK. CONNECT FIBER CABLE TO EQUIPMENT FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- 10 PROVIDE (3) 2" FLEXIBLE, WEATHERPROOF CONDUITS FOR DATA & SIGNAL CABLES BETWEEN BUILDINGS TO ALLOW SEISMIC MOVEMENT OF BUILDING. SEAL EXTERIOR WALL PENETRATIONS WITH APPROVED SEALANT. STUB CONDUITS INTO EACH BUILDING A MINIMUM OF 6" AND PROVIDE A BUSHING ON END OF CONDUIT TO PROTECT LOW VOLTAGE SIGNAL CABLES. SEE FIRE ALARM PLAN A/E31 FOR FIRE ALARM CONDUIT.
- 11 PROVIDE WIREMOLD SURFACE RACEWAY AND ROUTE DOWN WALL TO SURFACE RACEWAY JUNCTION BOX WITH DATA OUTLETS. NUMBER OF RJ45 JACKS SHOWN FOR DATA AND VOIP PHONE. MOUNT NEAR RECEPTACLE. RECEPTACLE TO BE FURNISHED WITH BUILDING.

GENERAL DATA NOTES

1. ALL DATA CABLES SHALL BE ROUTED BACK TO THE NEW IDF AS SHOWN. CONTRACTOR SHALL COORDINATE WITH COLLEGE DISTRICT IT DEPARTMENT FOR A COMPLETE & OPERATIONAL DATA SYSTEM FOR THE CAMPUS.
2. THE PHONE SYSTEM AT THE SCHOOL WILL BE A VOIP SYSTEM. COORDINATE WITH THE COLLEGE DISTRICT TO PROVIDE THE CORRECT PHONE FOR EACH CLASSROOM.

SIGNAL CABLE SCHEDULE	
TYPE	DESCRIPTION
H	CATEGORY 6 (DATA)
H1	CATEGORY 6A (WIRELESS ACCESS POINT - WAP)
H2	12 STRAND SINGLE MODE FIBER OPTIC (DATA BACKBONE)
PROVIDE AQUASEAL FOR UNDERGROUND CABLES. CONTRACTOR SHALL COORDINATE WITH COLLEGE IT DEPARTMENT FOR EXACT MANUFACTURER AND MODEL NUMBER OF SINGLE MODE FIBER OPTIC AND DATA CABLES.	



DSA #02-118411  
FILE #48-C1

EARLY COLLEGE  
PORTABLES

SOLANO COMMUNITY  
COLLEGE

4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

DSA APPROVED SET  
FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE
-----	-------------	------

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED WORK OF HMR ARCHITECTS AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF HMR ARCHITECTS

ENLARGED POWER, SIGNAL  
PLANS & NOTES

JUNE 1, 2020

DRAWN BY:

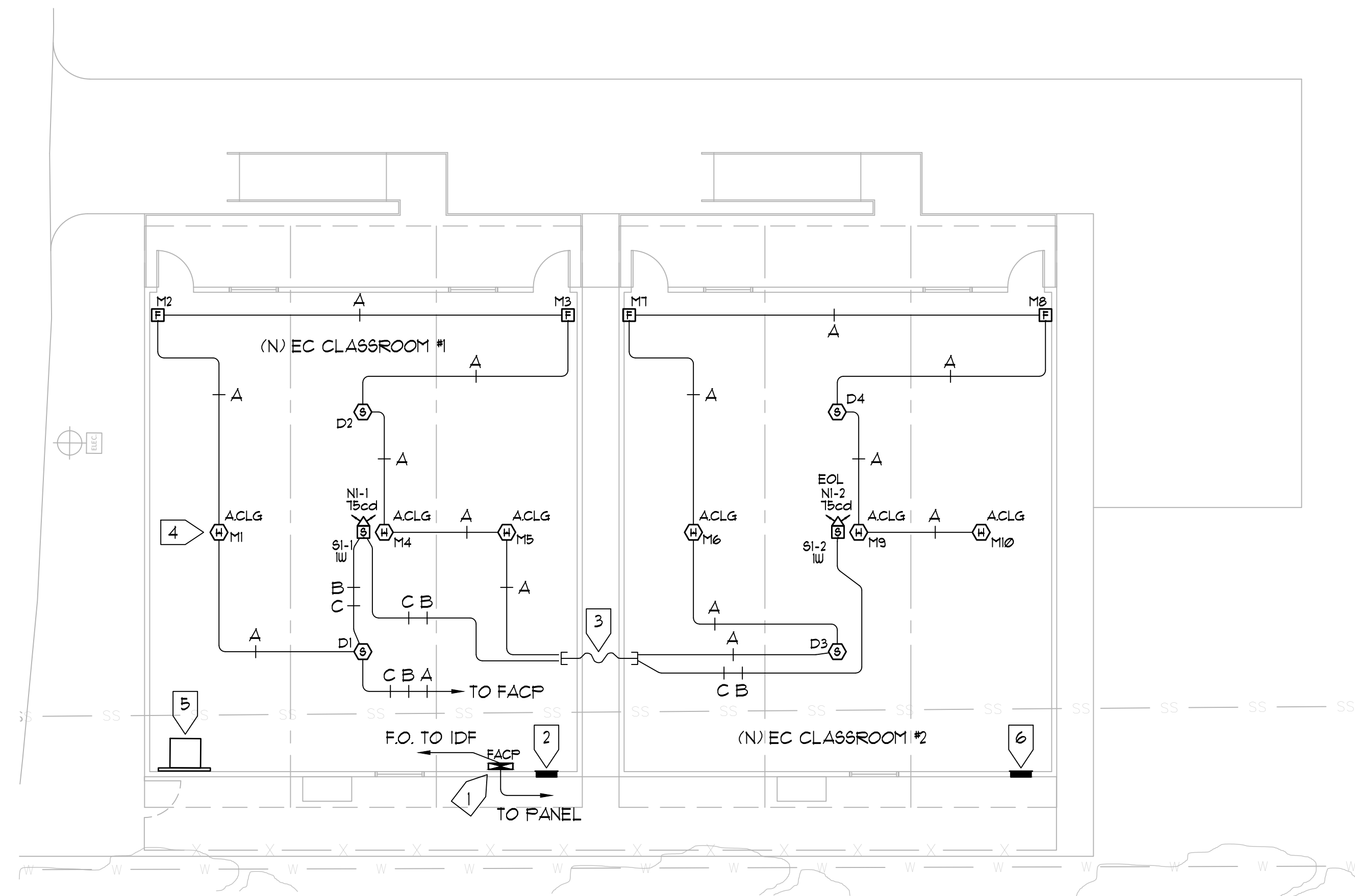
CHECKED BY:

JOB NO.

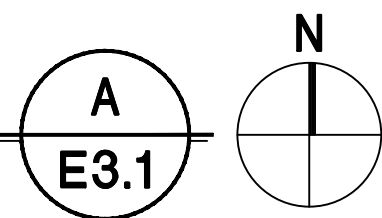
20016

E3.0



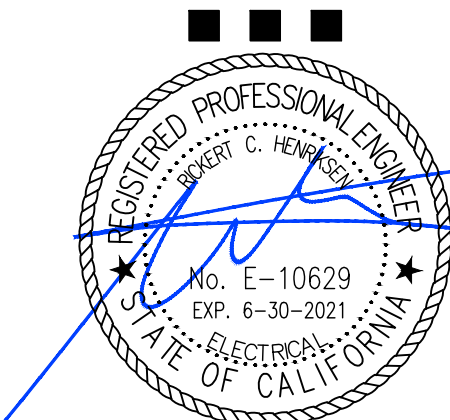
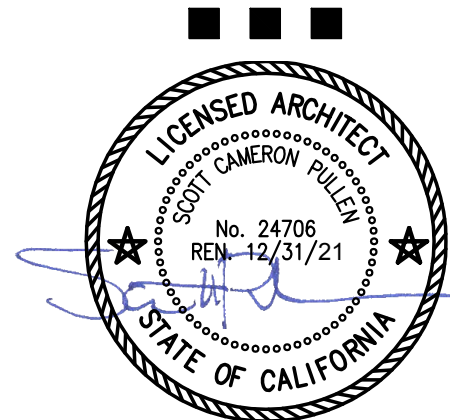
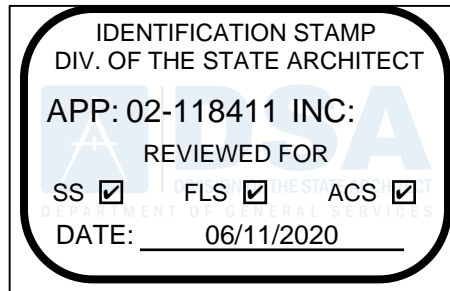


ENLARGED FIRE ALARM PLAN  
SCALE: 1/8" = 1'-0"



NUMBERED NOTES

- 1 PROVIDE NEW EDWARDS EST3 FIRE ALARM CONTROL PANEL WITH VOICE EVACUATION AND INSTALL ON WALL IN LOCATION SHOWN. CONNECT FACP TO CAMPUS WIDE F.A. SYSTEM WITH FIBER OPTIC CABLE ROUTED OVER TO IDF. CONNECT TO SLC LOOP, VOICE EVAC CIRCUIT #1 AND ROUTE CONDUCTORS AS SHOWN TO NEW FIRE ALARM DEVICES. SEE FIRE ALARM EQUIPMENT SCHEDULE AND RISER DIAGRAM ON SHEET E13. COORDINATE EXACT MOUNTING IN FIELD. COORDINATE CONNECTION TO IDF WITH DISTRICT IT DEPARTMENT.
- 2 BUILDING ELECTRICAL PANEL. PROVIDE A RED, 20 AMP, 1 PHASE CIRCUIT BREAKER WITH LOCK ON TAB AND INSTALL IN (E) SPACE. CONNECT (2) #2 CU & (1) #2 CU GROUND ROUTED FROM FACP IN 1/2" CONDUIT. CONNECT TO NEW RED CIRCUIT BREAKER FOR A COMPLETE & OPERATIONAL INSTALLATION. PER BUILDING PLANS, F.A. CIRCUIT BREAKER IS PROVIDED. VERIFY WITH BUILDING PANEL BEFORE INSTALLING NEW CIRCUIT BREAKER.
- 3 PROVIDE (1) 1" FLEXIBLE, WEATHERPROOF FIRE ALARM CONDUIT BETWEEN BUILDINGS TO ALLOW SEISMIC MOVEMENT OF BUILDING. SEAL EXTERIOR WALL PENETRATIONS WITH APPROVED SEALANT. STUB CONDUIT INTO EACH BUILDING A MINIMUM OF 6" AND PROVIDE A BUSHING ON END OF CONDUIT TO PROTECT FIRE ALARM CABLES.
- 4 FIRE ALARM NOTIFICATION DEVICE AND SMOKE DETECTORS MOUNTED IN CEILING. HEAT DETECTORS ARE MOUNTED IN ACCESSIBLE CEILING SPACE ABOVE T-BAR. TYPICAL FOR ALL DEVICES IN EACH NEW BUILDING. SEE A/E13 FOR DEVICE ELEVATION DETAIL.
- 5 IDF DATA RACK. ROUTE FIBER OPTIC CABLE FROM FACP TO IDF RACK FOR CONNECTION TO COLLEGE FIRE ALARM NETWORK. COORDINATE EXACT CONNECTION REQUIREMENTS AND FIBER OPTIC CABLE REQUIREMENTS WITH COLLEGE IT DEPARTMENT FOR A COMPLETE AND OPERATIONAL INSTALLATION.
- 6 BUILDING ELECTRICAL PANEL. PANEL IS SUPPLIED BY BUILDING MANUFACTURER.



Date Signed: June 4, 2020



DSA #02-118411  
FILE #48-C1

EARLY COLLEGE  
PORTABLES

SOLANO COMMUNITY  
COLLEGE

4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

DSA APPROVED SET  
FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE
-----	-------------	------

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING  
HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED  
WORK OF HMR ARCHITECTS AND MAY NOT BE  
DUPLICATED, USED OR DISCLOSED WITHOUT THE  
WRITTEN CONSENT OF HMR ARCHITECTS

ENLARGED FIRE ALARM PLAN  
& NOTES

JUNE 1, 2020

DRAWN BY:

CHECKED BY:

JOB NO.

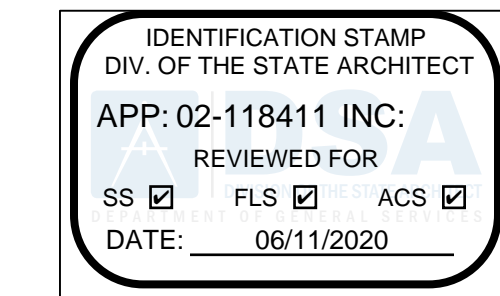
20016

E3.1



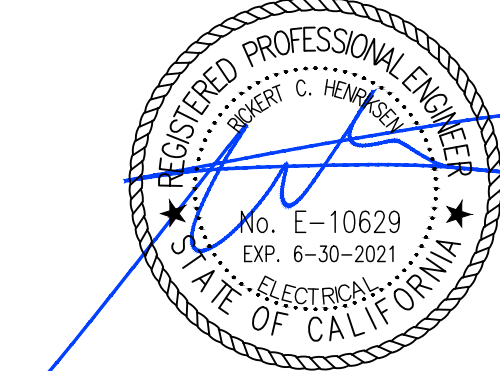
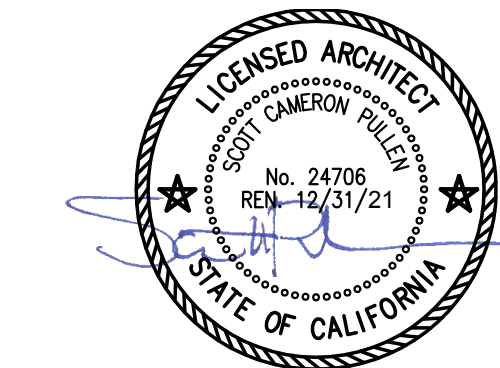
SECTION 26 05 00 ELECTRICAL WORK GENERAL REQUIREMENTS		SECTION 26 05 00 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS	
PART 1 - GENERAL	GENERAL	PART 1 - GENERAL	GENERAL
1.1 WORK INCLUDED	1.1 WORK INCLUDED	A. Requirements of Divisions 00 and 01 apply to all work of this Section.	A. Requirements of Divisions 00 and 01 and Section 26 05 00 apply to all work of this Section.
A. Requirements of Divisions 00 and 01 apply to all work of this Section.	B. Contractor shall provide all materials, labor, and the means and methods to complete the installation defined by the plans and these specifications	B. Contractor shall provide all materials, labor, and the means and methods to complete the installation defined by the plans and these specifications	B. Contractor shall provide all materials, labor, and the means and methods to complete the installation defined by the plans and these specifications
C. All conduit and pull boxes provided by the contractor for utility company wiring and cabling will be home runs from the point of entry to the District's property, to the Main Switchboard to Main Terminal Backboards, and/or to transformers, etc. The pull boxes and conduits are for the wire and cable installed by the providing utility company exclusively.	C. All conduit and pull boxes provided by the contractor for utility company wiring and cabling will be home runs from the point of entry to the District's property, to the Main Switchboard to Main Terminal Backboards, and/or to transformers, etc. The pull boxes and conduits are for the wire and cable installed by the providing utility company exclusively.	C. Grounding and Bonding: Grounding and bonding shall be installed as required by the applicable codes, rules, and regulations, and as follows:	C. Grounding and Bonding: Grounding and bonding shall be installed as required by the applicable codes, rules, and regulations, and as follows:
1.2 WORK NOT INCLUDED UNDER THIS SECTION	1.2 WORK NOT INCLUDED UNDER THIS SECTION	1. Each building shall have its own grounding electrode. Metal water and gas piping, and building structural steel, shall be bonded to grounding electrode at first panel ground bus unless detailed otherwise on the Drawings.	1. Each building shall have its own grounding electrode. Metal water and gas piping, and building structural steel, shall be bonded to grounding electrode at first panel ground bus unless detailed otherwise on the Drawings.
A. Furnishing of motors, fans, compressors, heaters, and controls included under Mechanical Section.	A. Furnishing of motors, fans, compressors, heaters, and controls included under Mechanical Section.	2. All raceway systems, supports, cabinets, panelboards, control equipment, motor frames, lighting fixtures, and utilization apparatus shall be permanently and effectively grounded.	2. All raceway systems, supports, cabinets, panelboards, control equipment, motor frames, lighting fixtures, and utilization apparatus shall be permanently and effectively grounded.
B. Finish painting of exposed metal surfaces included under Painting Section.	B. Finish painting of exposed metal surfaces included under Painting Section.	3. Where the raceway is used as the grounding conductor, good contact shall be made between conduit or tubing and panels, cabinets, outlet boxes and equipment, lighting fixtures, etc., to maintain continuity of ground. Where it is not possible to obtain good contact, additional bonding shall be provided. Supplemental bonding shall be provided between raceway and enclosure and at conduit knockouts and at reducing washers.	3. Where the raceway is used as the grounding conductor, good contact shall be made between conduit or tubing and panels, cabinets, outlet boxes and equipment, lighting fixtures, etc., to maintain continuity of ground. Where it is not possible to obtain good contact, additional bonding shall be provided. Supplemental bonding shall be provided between raceway and enclosure and at conduit knockouts and at reducing washers.
C. Equipment and work indicated "N.L.C." or "By Others".	C. Equipment and work indicated "N.L.C." or "By Others".	4. All non-metallic power, control, signal, and other raceways, exclusive of public telephone and data communications, shall contain a code size copper conductor, green insulated, properly bonded to equipment at each end, and to metallic portions of the same raceway.	4. All non-metallic power, control, signal, and other raceways, exclusive of public telephone and data communications, shall contain a code size copper conductor, green insulated, properly bonded to equipment at each end, and to metallic portions of the same raceway.
1.3 REQUIREMENTS	1.3 REQUIREMENTS	5. All grounding type receptacles shall have grounding contact connected to a grounding conductor. Grounding conductor may be code size green insulated copper conductor installed in conduit raceway or may be metallic raceway. If metallic raceway is used as grounding conductor, a green insulated copper conductor must connect receptacle grounding contact to lug or screw terminal in outlet box or to grounding bushing at raceway. Isolated grounding type receptacles shall have code sized green insulated copper conductor installed in conduit raceway.	5. All grounding type receptacles shall have grounding contact connected to a grounding conductor. Grounding conductor may be code size green insulated copper conductor installed in conduit raceway or may be metallic raceway. If metallic raceway is used as grounding conductor, a green insulated copper conductor must connect receptacle grounding contact to lug or screw terminal in outlet box or to grounding bushing at raceway. Isolated grounding type receptacles shall have code sized green insulated copper conductor installed in conduit raceway.
A. Other Divisions: Requirements of other divisions shall apply to this division as if repeated herein, and should work under this division require any carpentry, backfill, masonry, etc., the appropriate division requirements shall apply. This includes work required for construction of proper stands, bases, and supports for electrical materials and equipment.	A. Other Divisions: Requirements of other divisions shall apply to this division as if repeated herein, and should work under this division require any carpentry, backfill, masonry, etc., the appropriate division requirements shall apply. This includes work required for construction of proper stands, bases, and supports for electrical materials and equipment.	6. Provide bonding jumper around flexible metallic conduit. Bonding jumper shall be inside flex.	6. Provide bonding jumper around flexible metallic conduit. Bonding jumper shall be inside flex.
B. Rules and Regulations: All work and materials shall be in full accordance with the latest rules and regulations of the following:	B. Rules and Regulations: All work and materials shall be in full accordance with the latest rules and regulations of the following:	7. Raceway size shall be increased if necessary, to accommodate bonding or grounding conductors and shall be based on raceway fill tables.	7. Raceway size shall be increased if necessary, to accommodate bonding or grounding conductors and shall be based on raceway fill tables.
1. California Electrical Code, 2019 edition	1. California Electrical Code, 2019 edition	8. Where cabinets are furnished with grounding bus, all required bonding conductors shall connect thereto, each with separate lug.	8. Where cabinets are furnished with grounding bus, all required bonding conductors shall connect thereto, each with separate lug.
2. California Building Code, 2019 edition	2. California Building Code, 2019 edition	9. Buried ground connectors shall be made by the Cadweld process using molds and charges according to manufacturer's recommendations.	9. Buried ground connectors shall be made by the Cadweld process using molds and charges according to manufacturer's recommendations.
3. Applicable regulations of local utility companies	3. Applicable regulations of local utility companies	10. Unless detailed otherwise on drawings, grounding electrode(s) shall be foundation ground grid(s) consisting of two opposing runs of 25' lengths of #4/0 soft drawn bare copper conductors installed at bottom of foundation with 2" of concrete between conductors and earth, encased in concrete their entire length exclusive of tails for connections to equipment. Keep conductors separated from reinforcing steel by use of insulating tape. Conductors shall be interconnected by the Cadweld process using molds and charges according to manufacturer's recommendations. Tails for connection to equipment where shown or called for on drawings shall provide not less than 24" length above finished floor level. Protect all tails against damage.	10. Unless detailed otherwise on drawings, grounding electrode(s) shall be foundation ground grid(s) consisting of two opposing runs of 25' lengths of #4/0 soft drawn bare copper conductors installed at bottom of foundation with 2" of concrete between conductors and earth, encased in concrete their entire length exclusive of tails for connections to equipment. Keep conductors separated from reinforcing steel by use of insulating tape. Conductors shall be interconnected by the Cadweld process using molds and charges according to manufacturer's recommendations. Tails for connection to equipment where shown or called for on drawings shall provide not less than 24" length above finished floor level. Protect all tails against damage.
4. California Code of Regulations, Title 8, Electrical Safety Orders	4. California Code of Regulations, Title 8, Electrical Safety Orders	11. Provide grounding bar in electrical room, closet, etc., for grounding of low voltage (LV) equipment, racks and the like. Refer to drawings for detail. Locate grounding bar adjacent to data communication rack.	11. Provide grounding bar in electrical room, closet, etc., for grounding of low voltage (LV) equipment, racks and the like. Refer to drawings for detail. Locate grounding bar adjacent to data communication rack.
5. Equipment Utility Service Requirements Committee Standards	5. Equipment Utility Service Requirements Committee Standards	12. Grounding electrodes and connections to building water and gas mains or building structural steel shall have insulated conductors run in conduit directly to service ground bus separate from any other grounding conductor.	12. Grounding electrodes and connections to building water and gas mains or building structural steel shall have insulated conductors run in conduit directly to service ground bus separate from any other grounding conductor.
6. General Order 95 of the Public Utilities Commission	6. General Order 95 of the Public Utilities Commission	13. Each grounding electrode installed shall be tested prior to connection to equipment. Ground resistance tests shall be performed by an independent testing agency using a Megger Earth Tester or equivalent and test results shall be forwarded to the Architect for approval.	13. Each grounding electrode installed shall be tested prior to connection to equipment. Ground resistance tests shall be performed by an independent testing agency using a Megger Earth Tester or equivalent and test results shall be forwarded to the Architect for approval.
Nothing in these drawings or specifications is to be construed to permit work not conforming to the above codes, rules, and regulations.	Nothing in these drawings or specifications is to be construed to permit work not conforming to the above codes, rules, and regulations.		
Whenever indicated, material, workmanship, arrangement, or construction is of higher quality or capacity than that required by the above rules and regulations, the drawings and/or specifications shall take precedence. Should there be any direct conflict between the rules and regulations and the drawings and/or specifications, the rules shall govern.	Whenever indicated, material, workmanship, arrangement, or construction is of higher quality or capacity than that required by the above rules and regulations, the drawings and/or specifications shall take precedence. Should there be any direct conflict between the rules and regulations and the drawings and/or specifications, the rules shall govern.		
C. Permits, Fees, and Inspections: Contractor shall obtain all permits and arrange for Owner to pay required fees to any governmental agency or utility company having jurisdiction over the work of this Section. Inspections required by any local ordinances or utility companies during construction shall be arranged by the Contractor.	C. Permits, Fees, and Inspections: Contractor shall obtain all permits and arrange for Owner to pay required fees to any governmental agency or utility company having jurisdiction over the work of this Section. Inspections required by any local ordinances or utility companies during construction shall be arranged by the Contractor.		
All work and materials covered by these specifications and accompanying drawings shall at all times be subject to inspection by the Architect or his representative. Any material not in accordance with the plans and specifications, or not installed in a neat and workmanlike manner, shall, upon order from the Architect, be removed from the premises or corrective action taken within three days; and if material in question has been installed, the entire expense for removing and reinstalling shall be borne by the Contractor.	All work and materials covered by these specifications and accompanying drawings shall at all times be subject to inspection by the Architect or his representative. Any material not in accordance with the plans and specifications, or not installed in a neat and workmanlike manner, shall, upon order from the Architect, be removed from the premises or corrective action taken within three days; and if material in question has been installed, the entire expense for removing and reinstalling shall be borne by the Contractor.		
On completion of the work, satisfactory evidence shall be furnished to the Architect to show that all work has been installed in accordance with the Codes.	On completion of the work, satisfactory evidence shall be furnished to the Architect to show that all work has been installed in accordance with the Codes.		
D. Specifications and Contract Drawings: Accuracy of data given herein and on the drawings is as exact as could be secured, but their extreme accuracy is not guaranteed. The drawings and specifications are for the assistance and guidance of the Contractor and exact locations, distances, levels, etc., will be governed by the construction and existing conditions and the Contractor shall accept same with this understanding. Layouts of equipment, accessories and wiring systems are diagrammatic (not pictorial and not exact), but shall be followed as closely as possible. Architectural, structural, mechanical, and other drawings shall be examined noting all conditions that may affect this work. Where connections to equipment provided by other divisions are shown on electrical drawings, refer to drawings of respective division for exact locations and electrical requirements of equipment. Report conflicting conditions to the Architect for adjustment before proceeding with work. Should Contractor proceed with work without reporting conflict(s), he does so on his own responsibility, and shall alter work if directed by the Architect, at his own expense. Right is reserved to make minor changes in locations of equipment and wiring systems shown, providing change is ordered before conduit runs and/or work directly connected to same is installed and no extra materials are required.	D. Specifications and Contract Drawings: Accuracy of data given herein and on the drawings is as exact as could be secured, but their extreme accuracy is not guaranteed. The drawings and specifications are for the assistance and guidance of the Contractor and exact locations, distances, levels, etc., will be governed by the construction and existing conditions and the Contractor shall accept same with this understanding. Layouts of equipment, accessories and wiring systems are diagrammatic (not pictorial and not exact), but shall be followed as closely as possible. Architectural, structural, mechanical, and other drawings shall be examined noting all conditions that may affect this work. Where connections to equipment provided by other divisions are shown on electrical drawings, refer to drawings of respective division for exact locations and electrical requirements of equipment. Report conflicting conditions to the Architect for adjustment before proceeding with work. Should Contractor proceed with work without reporting conflict(s), he does so on his own responsibility, and shall alter work if directed by the Architect, at his own expense. Right is reserved to make minor changes in locations of equipment and wiring systems shown, providing change is ordered before conduit runs and/or work directly connected to same is installed and no extra materials are required.		
Drawings and specifications may be superseded by later detail specification and detail drawings prepared by the Architect, and the Contractor shall conform to them and to such reasonable changes in the contract drawings as may be called for by these revised drawings without extra cost to the Owner. Contractor may request additional detail(s) and such shall be conformed to, without additional cost. Contractor may offer alternate detail(s), but such detail(s) shall be approved by Architect and authority having jurisdiction.	Drawings and specifications may be superseded by later detail specification and detail drawings prepared by the Architect, and the Contractor shall conform to them and to such reasonable changes in the contract drawings as may be called for by these revised drawings without extra cost to the Owner. Contractor may request additional detail(s) and such shall be conformed to, without additional cost. Contractor may offer alternate detail(s), but such detail(s) shall be approved by Architect and authority having jurisdiction.		
E. Structural Requirements: Installation under this Section shall comply with the California Building Code. Obtain the Architect's approval before performing any cutting or patching of concrete, masonry, or wood structures. Refer to details on structural drawings for penetration requirements through framing top plates, sill plates, beams, joists, rafters, etc. Provide notching, boring, drilling, anchor bolts, and other work in strictest conformance to structural details.	E. Structural Requirements: Installation under this Section shall comply with the California Building Code. Obtain the Architect's approval before performing any cutting or patching of concrete, masonry, or wood structures. Refer to details on structural drawings for penetration requirements through framing top plates, sill plates, beams, joists, rafters, etc. Provide notching, boring, drilling, anchor bolts, and other work in strictest conformance to structural details.		
F. Examination of Site: The Contractor shall be held to have visited the site prior to bidding and satisfied himself as to the conditions under which the work is to be performed. He shall check existing conditions which may affect his work. Where signal systems exist, and services of other firms are required, Contractor shall instruct those firms to investigate existing systems and determine labor and materials needed to add devices or modify systems. Where new conduits are to be run underground at existing sites, Contractor shall visit site prior to bidding and walk routes of new underground conduits, note areas of concrete and asphalt being crossed, and include in bid all costs for cutting and patching. No allowances shall subsequently be made in Contractor's behalf for any extra expense to which he or his "subs" may be put due to failure or neglect to discover conditions affecting the work.	F. Examination of Site: The Contractor shall be held to have visited the site prior to bidding and satisfied himself as to the conditions under which the work is to be performed. He shall check existing conditions which may affect his work. Where signal systems exist, and services of other firms are required, Contractor shall instruct those firms to investigate existing systems and determine labor and materials needed to add devices or modify systems. Where new conduits are to be run underground at existing sites, Contractor shall visit site prior to bidding and walk routes of new underground conduits, note areas of concrete and asphalt being crossed, and include in bid all costs for cutting and patching. No allowances shall subsequently be made in Contractor's behalf for any extra expense to which he or his "subs" may be put due to failure or neglect to discover conditions affecting the work.		
G. Underground Utilities: Existing underground utilities, services, circuits, piping, irrigation piping, etc., are present, but their exact locations are not known. Contractor shall locate and protect before trenching or excavating in any area. Consult utility companies, "as-built drawings" and Owner's maintenance personnel for location of existing underground work. If existing piping or utilities are damaged during construction, Contractor shall repair immediately at own expense. New underground work shall be modified as necessary to conform to existing conditions.	G. Underground Utilities: Existing underground utilities, services, circuits, piping, irrigation piping, etc., are present, but their exact locations are not known. Contractor shall locate and protect before trenching or excavating in any area. Consult utility companies, "as-built drawings" and Owner's maintenance personnel for location of existing underground work. If existing piping or utilities are damaged during construction, Contractor shall repair immediately at own expense. New underground work shall be modified as necessary to conform to existing conditions.		
H. Shop Drawings, Substitutions, Materials, and Submittals:	H. Shop Drawings, Substitutions, Materials, and Submittals:		
1. Shop drawings and all supporting data will be submitted as instruments of the Contractor who shall certify on his transmittal form that the submittals meet all requirements of the contract documents and conform to structural and space conditions. Contractor shall mark each page of each copy of submittal to clearly identify materials, products, or models being proposed. All extraneous information shall be marked out or page pulled if no item(s) on page are being proposed. Submittals which do not clearly identify items being proposed will be returned without review.	1. Shop drawings and all supporting data will be submitted as instruments of the Contractor who shall certify on his transmittal form that the submittals meet all requirements of the contract documents and conform to structural and space conditions. Contractor shall mark each page of each copy of submittal to clearly identify materials, products, or models being proposed. All extraneous information shall be marked out or page pulled if no item(s) on page are being proposed. Submittals which do not clearly identify items being proposed will be returned without review.		
2. When specific names are used in connection with materials, they are used as standards only, but this implies no right upon the part of the Contractor to use other materials or methods unless approved as equal in quality and utility by the Architect in writing.	2. When specific names are used in connection with materials, they are used as standards only, but this implies no right upon the part of the Contractor to use other materials or methods unless approved as equal in quality and utility by the Architect in writing.		
3. Whenever an item of equipment or system is described herein or on the drawings in a descriptive, functional, or operational manner as opposed to catalog number or type, then the Contractor's submittal shall include all such descriptive, functional, or operational features to prove full equality to specified item or system.	3. Whenever an item of equipment or system is described herein or on the drawings in a descriptive, functional, or operational manner as opposed to catalog number or type, then the Contractor's submittal shall include all such descriptive, functional, or operational features to prove full equality to specified item or system.		
4. Panelboard submittals shall be arranged to show bussing and circuit numbers with respective branch circuit protective device similar to schedules on Drawings.	4. Panelboard submittals shall be arranged to show bussing and circuit numbers with respective branch circuit protective device similar to schedules on Drawings.		
5. Within 30 days after award of the contract, submit seven bound copies of complete material list, which includes manufacturer's name and catalog numbers for materials being proposed. All material specified herein and on the drawing shall be included in list. Proposed substitutions, and only proposed substitutions, shall be accompanied by catalog cuts, ratings, sizes, performance curves, shop drawings, and other data complete to prove full equality to the specified item. List shall include contractor's confirmation that material is U.L. labeled or listed. Refer to attached form.	5. Within 30 days after award of the contract, submit seven bound copies of complete material list, which includes manufacturer's name and catalog numbers for materials being proposed. All material specified herein and on the drawing shall be included in list. Proposed substitutions, and only proposed substitutions, shall be accompanied by catalog cuts, ratings, sizes, performance curves, shop drawings, and other data complete to prove full equality to the specified item. List shall include contractor's confirmation that material is U.L. labeled or listed. Refer to attached form.		
6. Within 10 days after return of material list, submit seven bound copies of brochures containing complete information and catalog cuts on all equipment, including that which is to be furnished as specified. The brochures shall be bound as complete volumes or bound according to classifications of equipment such as power, fixtures, signals, and miscellaneous. Incomplete submittals (such as signal system product data submitted without system shop drawings) will be returned without review.	6. Within 10 days after return of material list, submit seven bound copies of brochures containing complete information and catalog cuts on all equipment, including that which is to be furnished as specified. The brochures shall be bound as complete volumes or bound according to classifications of equipment such as power, fixtures, signals, and miscellaneous. Incomplete submittals (such as signal system product data submitted without system shop drawings) will be returned without review.		
7. Approval of a substitution does not authorize any deviation from the utility, size, or function of the specified item unless specifically pointed out and approval requested in the letter of submittal. Responsibility for conflicts due to space limitations is not relieved by approval of a substitution. If revision of wiring, piping, or arrangement of other equipment is required by substitutions, prepare drawings showing such revisions, and after approval, furnish seven copies for file and future reference.	7. Approval of a substitution does not authorize any deviation from the utility, size, or function of the specified item unless specifically pointed out and approval requested in the letter of submittal. Responsibility for conflicts due to space limitations is not relieved by approval of a substitution. If revision of wiring, piping, or arrangement of other equipment is required by substitutions, prepare drawings showing such revisions, and after approval, furnish seven copies for file and future reference.		
8. Submittal Review:	8. Submittal Review:		
a. Items marked "No Exceptions Taken" or "Make Corrections Noted" shall not be resubmitted in subsequent submittals unless a complete package submittal is required by a reviewing agency or firm. Resubmittal items which have already been reviewed but no resubmittal was required, will not be reviewed a second time. Pages for such items will be returned unstamped and unmarked.	a. Items marked "No Exceptions Taken" or "Make Corrections Noted" shall not be resubmitted in subsequent submittals unless a complete package submittal is required by a reviewing agency or firm. Resubmittal items which have already been reviewed but no resubmittal was required, will not be reviewed a second time. Pages for such items will be returned unstamped and unmarked.		
b. When an item is marked "Revise and Resubmit" or "Rejected", the Contractor shall furnish a resubmittal for that item. Pages for resubmitted items shall be new submittal pages. The Contractor shall not resubmit previously stamped and annotated pages or photocopies of such pages. Resubmittals which include pages stamped as part of an earlier review or photocopies of such stamped pages will not be reviewed and will be returned as previously stamped and annotated.	b. When an item is marked "Revise and Resubmit" or "Rejected", the Contractor shall furnish a resubmittal for that item. Pages for resubmitted items shall be new submittal pages. The Contractor shall not resubmit previously stamped and annotated pages or photocopies of such pages. Resubmittals which include pages stamped as part of an earlier review or photocopies of such stamped pages will not be reviewed and will be returned as previously stamped and annotated.		
c. Refer to 1.1 above. Non-compliance with paragraph 1.1 requirements will cause submittal to be returned without review.	c. Refer to 1.1 above. Non-compliance with paragraph 1.1 requirements will cause submittal to be returned without review.		
9. Should the Contractor's first submittal fail to meet approval, or should the Contractor fail to submit the specified items within the time schedule, then the right is reserved by the Architect to select any or all items in question, which selection shall be final and binding upon the Contractor. The materials selected or approved by the Architect shall be used in the work at no additional cost to the Owner.	9. Should the Contractor's first submittal fail to meet approval, or should the Contractor fail to submit the specified items within the time schedule, then the right is reserved by the Architect to select any or all items in question, which selection shall be final and binding upon the Contractor. The materials selected or approved by the Architect shall be used in the work at no additional cost to the Owner.		
10. Unless otherwise shown or specified, material shall be new, full weight, standard, the best quality of its kind, and satisfactory to the Architect. Unless otherwise shown or specified, major equipment shall be the product of a manufacturer who has, for a period of not less than five years, been in successful manufacture of the equipment, and who has a nationally distributed catalog covering ratings and specifications of said equipment.	10. Unless otherwise shown or specified, material shall be new, full weight, standard, the best quality of its kind, and satisfactory to the Architect. Unless otherwise shown or specified, major equipment shall be the product of a manufacturer who has, for a period of not less than five years, been in successful manufacture of the equipment, and who has a nationally distributed catalog covering ratings and specifications of said equipment.		
11. Electrical materials shall bear the label of, or be listed by, the Underwriters Laboratories unless of a type for which label or listing service is not provided.	11. Electrical materials shall bear the label of, or be listed by, the Underwriters Laboratories unless of a type for which label or listing service is not provided.		
12. Materials and components shall conform to Industry Standard, including:	12. Materials and components shall conform to Industry Standard, including:		
NEMA National Electrical Manufacturer's Association ANSI American National Standards Institute ASTM The American Society for Testing and Materials ICEA Insulated Cable Engineer's Association USA United States of America Standards	NEMA National Electrical Manufacturer's Association ANSI American National Standards Institute ASTM The American Society for Testing and Materials ICEA Insulated Cable Engineer's Association USA United States of America Standards		
13. Samples of fixtures, materials, and equipment shall be submitted for approval if required.	13. Samples of fixtures, materials, and equipment shall be submitted for approval if required.		

I. Expedited Delivery: Where construction schedule does not allow for "normal" delivery of equipment in Division 26, 27 and 28 work, contractor shall purchase equipment for accelerated delivery. All additional costs for expedited delivery shall be included in bid.	I. Expedited Delivery: Where construction schedule does not allow for "normal" delivery of equipment in Division 26, 27 and 28 work, contractor shall purchase equipment for accelerated delivery. All additional costs for expedited delivery shall be included in bid.		
J. Identification of Equipment: Nameplates shall be installed on electrical equipment. Nameplates shall adequately describe the item and its function or use of the particular equipment involved. Equipment to be labeled shall include the following:	J. Identification of Equipment: Nameplates shall be installed on electrical equipment. Nameplates shall adequately describe the item and its function or use of the particular equipment involved. Equipment to be labeled shall include the following:		
1. Individual enclosures for equipment such as time switches, push buttons, contactors, relays, etc.	1. Individual enclosures for equipment such as time switches, push buttons, contactors, relays, etc.		
2. Group mounted equipment such as panelboards, terminal and control cabinets, etc.	2. Group mounted equipment such as panelboards, terminal and control cabinets, etc.		
3. Individual circuit breakers on switchboards. Include breaker trip ampacity on line below use description.	3. Individual circuit breakers on switchboards. Include breaker trip ampacity on line below use description.		
4. Wall switches for lighting or other use where the control function is not self-evident.	4. Wall switches for lighting or other use where the control function is not self-evident.		
5. Disconnect switches mounted remote from equipment and unit served is not self-evident.	5. Disconnect switches mounted remote from equipment and unit served is not self-evident.		
6. Terminal blockboards (located centered at top).	6. Terminal blockboards (located centered at top).		
7. Terminal strips at terminal blockboards and cabinets (located centered above terminal block for each system). At terminal strips, the following abbreviations may be used:	7. Terminal strips at terminal blockboards and cabinets (located centered above terminal block for each system). At terminal strips, the following abbreviations may be used:		
CLK Clock DATA Data Communications FA Fire Alarm IC Intercorn IA Intrusion Alarm	CLK Clock DATA Data Communications FA Fire Alarm IC Intercorn IA Intrusion Alarm		
Nameplate material shall be laminated phenolic plastic, black front and back with white core. Engraving shall be through the outer layer. Embossed plastic pressure sensitive labels are not acceptable.	Nameplate material shall be laminated phenolic plastic, black front and back with white core. Engraving shall be through the outer layer. Embossed plastic pressure sensitive labels are not acceptable.		
In lieu of plastic plates, typed pasteboard inserted behind clear plastic protector in a metal holder inside door may be used to identify circuit breakers in panelboards.	In lieu of plastic plates, typed pasteboard inserted behind clear plastic protector in a metal holder inside door may be used to identify circuit breakers in panelboards.		
In lieu of plastic plates, device plates shall be engraved directly with lettering filled with black enamel.	In lieu of plastic plates, device plates shall be engraved directly with lettering filled with black enamel.		
Nameplates shall be securely fastened to the equipment with #4 Phillips round head cadmium plated steel self-tapping screws or brass bolts or rivets to equipment.	Nameplates shall be securely fastened to the equipment with #4 Phillips round head cadmium plated steel self-tapping screws or brass bolts or rivets to equipment.		
K. Cutting of Structural Members: Unless specifically detailed on the structural drawings, cutting of joists and similar structural members is limited to cuts and bored holes located and sized in accordance with the requirements of Title 24. Cutting of structural mullions is prohibited except as specifically shown.	K. Cutting of Structural Members: Unless specifically detailed on the structural drawings, cutting of joists and similar structural members is limited to cuts and bored holes located and sized in accordance with the requirements of Title 24. Cutting of structural mullions is prohibited except as specifically shown.		
L. Record Drawings: The Contractor's foreman shall keep in his possession a minimum of two copies of DSA approved plans. One set shall be marked as the work is installed, showing the work that has been installed, with deviations. The other set shall be marked showing deviations for the work shown and the locations of major items of equipment and feeders, dimensioned from curbs, foundations, or other landmarks. Obtain inspector's progressive approval of these marked sheets. Upon completion of the work, all work installed shall be drafted by the Contractor to reproducible drawings, which shall be the as-built drawings. Coordinate with General Contractor on requirements for reproducible record drawings.	L. Record Drawings: The Contractor's foreman shall keep in his possession a minimum of two copies of DSA approved plans. One set shall be marked as the work is installed, showing the work that has been installed, with deviations. The other set shall be marked showing deviations for the work shown and the locations of major items of equipment and feeders, dimensioned from curbs, foundations, or other landmarks. Obtain inspector's progressive approval of these marked sheets. Upon completion of the work, all work installed shall be drafted by the Contractor to reproducible drawings, which shall be the as-built drawings. Coordinate with General Contractor on requirements for reproducible record drawings.		
M. Cleaning and Cleanup: After all work has been accomplished such as sanding, painting, etc., lighting fixtures, panelboards, and switchboards shall be cleaned to remove all dust, dirt, grease, paint, or other marks. All electrical equipment shall be left in a clean condition inside and out, satisfactory to the Architect. Keep buildings and premises free from accumulated waste materials, rubbish, and debris resulting from work herein, and, upon completion of said work, remove tools, appliances, surplus materials, waste materials, rubbish, debris, and accessory items used in or resulting from said work and legally dispose of off the site.	M. Cleaning and Cleanup: After all work has been accomplished such as sanding, painting, etc., lighting fixtures, panelboards, and switchboards shall be cleaned to remove all dust, dirt, grease, paint, or other marks. All electrical equipment shall be left in a clean condition inside and out, satisfactory to the Architect. Keep buildings and premises free from accumulated waste materials, rubbish, and debris resulting from work herein, and, upon completion of said work, remove tools, appliances, surplus materials, waste materials, rubbish, debris, and accessory items used in or resulting from said work and legally dispose of off the site.		
N. Protection: The Contractor shall protect from damage during construction the work and materials of other trades as well as the electrical work and material. Electrical equipment stored and installed on the job site shall be protected from dust, water, or any other damage.	N. Protection: The Contractor shall protect from damage during construction the work and materials of other trades as well as the electrical work and material. Electrical equipment stored and installed on the job site shall be protected from dust, water, or any other damage.		
O. Working Space: Adequate working space shall be provided around electrical equipment in strict compliance with the Codes. In general, provide 6'6" of headroom and 36" minimum clear work space in front of switchboards, panelboards, transformers, disconnect switches and controls for 120/208V and 42" for 277/480V. Carefully coordinate locations and orientation of electrical equipment with other divisions to ensure that working space will be clear of piping, conduits, and equipment provided by others.	O. Working Space: Adequate working space shall be provided around electrical equipment in strict compliance with the Codes. In general, provide 6'6" of headroom and 36" minimum clear work space in front of switchboards, panelboards, transformers, disconnect switches and controls for 120/208V and 42" for 277/480V. Carefully coordinate locations and orientation of electrical equipment with other divisions to ensure that working space will be clear of piping, conduits, and equipment provided by others.		
P. Interruption of Service: Services (power, telephone, fire alarm and other signal services) to existing building(s) and their related circuits which are to remain in operation shall not be interrupted except by specific approval of the Owner. If it is deemed necessary to shut down circuits for the installation of new work, such shut down shall be scheduled with the Owner who may, at his option, have a representative present. Any accidental interruption of service to circuits or equipment as a result of work performed by the Contractor shall, at the Contractor's expense, be restored in a manner acceptable to the Owner.	P. Interruption of Service: Services (power, telephone, fire alarm and other signal services) to existing building(s) and their related circuits which are to remain in operation shall not be interrupted except by specific approval of the Owner. If it is deemed necessary to shut down circuits for the installation of new work, such shut down shall be scheduled with the Owner who may, at his option, have a representative present. Any accidental interruption of service to circuits or equipment as a result of work performed by the Contractor shall, at the Contractor's expense, be restored in a manner acceptable to the Owner.		
Q. Cooperation and Coordination: Cooperate and coordinate with other crafts in putting the installation in place at a time when the space required by this installation is accessible. Work done without regard to other crafts shall be moved at the Contractor's expense.	Q. Cooperation and Coordination: Cooperate and coordinate with other crafts in putting the installation in place at a time when the space required by this installation is accessible. Work done without regard to other crafts shall be moved at the Contractor's expense.		
R. Electrical Work for Equipment Furnished by Others: Contractor shall make electrical connections to all equipment furnished and installed by others. Specific requirements shall be obtained from contractor providing the equipment and used to perform electrical work. Contractor's responsibility is limited to having correctly installed and connected electrical work in accordance with diagrams and specifications furnished him by the appropriate equipment contractor.	R. Electrical Work for Equipment Furnished by Others: Contractor shall make electrical connections to all equipment furnished and installed by others. Specific requirements shall be obtained from contractor providing the equipment and used to perform electrical work. Contractor's responsibility is limited to having correctly installed and connected electrical work in accordance with diagrams and specifications furnished him by the appropriate equipment contractor.		
1. Equipment or Systems Other Than HVAC or Plumbing: This contractor shall provide all conduit, conductors, disconnects, and connections for power and controls for equipment requiring electrical services.	1. Equipment or Systems Other Than HVAC or Plumbing: This contractor shall provide all conduit, conductors, disconnects, and connections for power and controls for equipment requiring electrical services.		
S. Inspection: The Contractor shall cooperate with the Architect and shall provide assistance at all times for the inspection of the electrical work performed under this contract. He shall remove covers, operate machinery, or perform any reasonable work which, in the opinion of the Engineer, will be necessary to determine the quality and adequacy of the work.	S. Inspection: The Contractor shall cooperate with the Architect and shall provide assistance at all times for the inspection of the electrical work performed under this contract. He shall remove covers, operate machinery, or perform any reasonable work which, in the opinion of the Engineer, will be necessary to determine the quality and adequacy of the work.		
T. Manufacturer's Directions: Follow manufacturer's directions where these directions cover points not included on the drawings or in the specifications. When equipment is provided by other divisions, obtain directions from respective supplier.	T. Manufacturer's Directions: Follow manufacturer's directions where these directions cover points not included on the drawings or in the specifications. When equipment is provided by other divisions, obtain directions from respective supplier.		
U. Workmanship: Good workmanship shall be evidenced in the installation of all electrical materials and equipment. Equipment shall be level, plumb and true with the structure and other equipment. All materials shall be firmly secured in place and adequately supported and permanently. The recommendations of the National Electrical Contractors Association Standard of installation shall be followed except where otherwise specifically directed.	U. Workmanship: Good workmanship shall be evidenced in the installation of all electrical materials and equipment. Equipment shall be level, plumb and true with the structure and other equipment. All materials shall be firmly secured in place and adequately supported and permanently. The recommendations of the National Electrical Contractors Association Standard of installation shall be followed except where otherwise specifically directed.		
V. Operating Test: After the installation is complete, and at such time as the Engineer and other authorities having jurisdiction may request, the Contractor shall conduct an operating test for approval.	V. Operating Test: After the installation is complete, and at such time as the Engineer and other authorities having jurisdiction may request, the Contractor shall conduct an operating test for approval.		
W. Manuals: In addition to the catalog data and Shop Drawings submitted for approval as required hereinbefore, the Contractor shall furnish to the Architect three final corrected sets of all data applicable to the equipment furnished.	W. Manuals: In addition to the catalog data and Shop Drawings submitted for approval as required hereinbefore, the Contractor shall furnish to the Architect three final corrected sets of all data applicable to the equipment furnished.		
1. All data shall be delivered not less than 30 days before the start of operation by the Owner or any demonstration period hereinafter specified and before finalizing construction work.	1. All data shall be delivered not less than 30 days before the start of operation by the Owner or any demonstration period hereinafter specified and before finalizing construction work.		
2. Each set of data per system shall be bound in one or more volumes. A top quality three-ring binder with vinyl or hard cover will be acceptable in lieu of binding; however, all insert data must be properly punched and reinforced. Each volume shall have permanent identification information on the spine.	2. Each set of data per system shall be bound in one or more volumes. A top quality three-ring binder with vinyl or hard cover will be acceptable in lieu of binding; however, all insert data must be properly punched and reinforced. Each volume shall have permanent identification information on the spine.		
3. Identification information shall include the building name, address, and location, system or systems included, and titled "Maintenance Manual".	3. Identification information shall include the building name, address, and location, system or systems included, and titled "Maintenance Manual".		
4. All data shall be assembled in an orderly sequence with tabbed dividers to correspond with the content of the contents.	4. All data shall be assembled in an orderly sequence with tabbed dividers to correspond with the content of the contents.		
5. Manufacturer's catalog data, Shop Drawings, etc., shall be marked clearly to identify the items applicable only to this project. Make and model numbers of each item installed shall be marked clearly in catalog data and identified with symbol used on the Drawings.	5. Manufacturer's catalog data, Shop Drawings, etc., shall be marked clearly to identify the items applicable only to this project. Make and model numbers of each item installed shall be marked clearly in catalog data and identified with symbol used on the Drawings.		
6. Each set of data shall contain the following:	6. Each set of data shall contain the following:		
a. Table of Contents, listing orderly indexed names of items.	a. Table of Contents, listing orderly indexed names of items.		
b. Descriptive literature.	b. Descriptive literature.		
c. Rating data, including rating tables, performance curves, etc.	c. Rating data, including rating tables, performance curves, etc.		
d. Dimension data.	d. Dimension data.		
e. Spare Parts Lists.	e. Spare Parts Lists.		
f. Manufacturer's operation and maintenance instructions and manuals.	f. Manufacturer's operation and maintenance instructions and manuals.		
g. Shop Drawings.	g. Shop Drawings.		
h. Copies of posted instructions and diagrams.	h. Copies of posted instructions and diagrams.		
i. Control diagrams and descriptions of sequence of operation.	i. Control diagrams and descriptions of sequence of operation.		
j. Copies of warranties, guarantees, certificates, etc.	j. Copies of warranties, guarantees, certificates, etc.		
7. Complete data, including component parts, shall be provided on each item listed below:	7. Complete data, including component parts, shall be provided on each item listed below:		
a. Intrusion Alarm Equipment.	a. Intrusion Alarm Equipment.		
b. Clock Equipment.	b. Clock Equipment.		
c. Fire Alarm Equipment.	c. Fire Alarm Equipment.		
d. Lighting Fixtures.	d. Lighting Fixtures.		
e. Lighting Control Equipment.	e. Lighting Control Equipment.		
f. Sound and Signal Equipment.	f. Sound and Signal Equipment.		
g. Emergency Lighting Equipment.	g. Emergency Lighting Equipment.		
h. Panelboards.	h. Panelboards.		
Submit copy to Architect for approval before delivery to Owner.	Submit copy to Architect for approval before delivery to Owner.		
8. In addition to the requirements above, contractor shall provide final programming information to District on disk for all systems requiring programming.	8. In addition to the requirements above, contractor shall provide final programming information to District on disk for all systems requiring programming.		
X. Contractor's Supervision: The Electrical Contractor shall personally, or through an authorized and competent representative, constantly supervise the work from its beginning to its completion and acceptance. He shall, as far as possible, keep the same foreman and workers on the work from its commencement to its completion.	X. Contractor's Supervision: The Electrical Contractor shall personally, or through an authorized and competent representative, constantly supervise the work from its beginning to its completion and acceptance. He shall, as far as possible, keep the same foreman and workers on the work from its commencement to its completion.		
Y. Temporary Work: All temporary electrical equipment and materials installed for construction and safety operations shall remain the property of the Contractor and shall be removed when permanent connections have been completed. No wire, bus, or electrical equipment which is part of any of the permanent electrical systems may be used for temporary electrical service. Temporary connections shall be safe and in accordance with accepted practices. The Contractor shall be responsible for any damage or injury to equipment, materials, or personnel caused by improperly protected temporary installations. All costs for materials and illumination for temporary electrical facilities and energy for their operation shall be at the expense of the Contractor. The hours of operation, level of illumination, and coverage for safety of personnel shall meet the minimum requirements of the Owner (Division of Industrial Safety).	Y. Temporary Work: All temporary electrical equipment and materials installed for construction and safety operations shall remain the property of the Contractor and shall be removed when permanent connections have been completed. No wire, bus, or electrical equipment which is part of any of the permanent electrical systems may be used for temporary electrical service. Temporary connections shall be safe and in accordance with accepted practices. The Contractor shall be responsible for any damage or injury to equipment, materials, or personnel caused by improperly protected temporary installations. All costs for materials and illumination for temporary electrical facilities and energy for their operation shall be at the expense of the Contractor. The hours of operation, level of illumination, and coverage for safety of personnel shall meet the minimum requirements of the Owner (Division of Industrial Safety).		
Z. Scheduling of Work:	Z. Scheduling of Work:		
1. Due to its nature, this work will have to proceed with a definite sequence of operations to minimize outages and to continue facilities to certain areas. The building(s) will remain in operation during the work and the Contractor shall make every effort to maintain required services (power and signal).	1. Due to its nature, this work will have to proceed with a definite sequence		



HMRARCHITECTS

2130 21st Street  
Sacramento, CA 95818  
T 916 736 2724



Date Signed: June 4, 2020



DSA #02-118411  
FILE #48-C1

EARLY COLLEGE  
PORTABLES

SOLANO COMMUNITY  
COLLEGE

4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

DSA APPROVED SET  
FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE
-----	-------------	------

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING  
HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED  
WORK OF HMR ARCHITECTS AND MAY NOT BE  
DUPLICATED, USED OR DISCLOSED WITHOUT THE  
WRITTEN CONSENT OF HMR ARCHITECTS

ELECTRICAL SPECIFICATIONS

JUNE 1, 2020

DRAWN BY:	
CHECKED BY:	
JOB NO:	20016

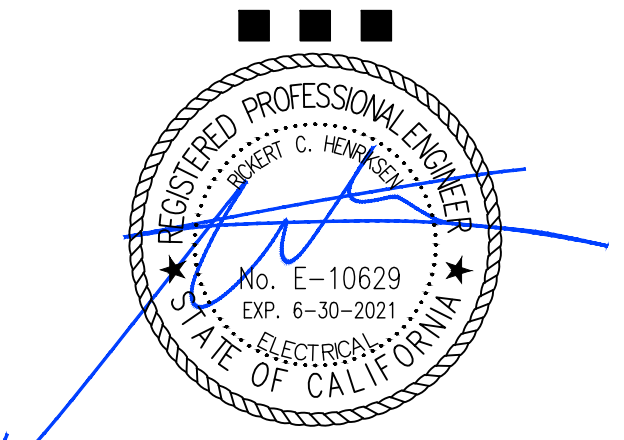
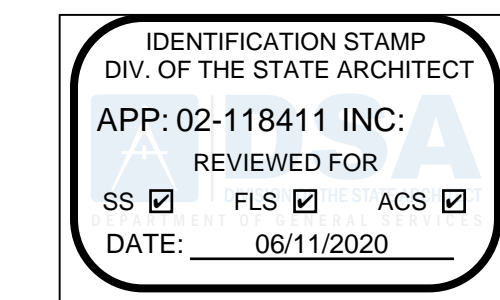
E4.0



SECTION 26 05 29 HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS			Field Welding: Comply with AWS D1.1/D1.1M.																		
PART 1 - GENERAL			3.04 CONCRETE BASES																		
1.01 SUMMARY			A. Construct concrete bases of dimensions indicated but not less than 4 inches (100 mm) larger in both directions than supported unit, and so anchors will be a minimum of 10 bolt diameters from edge of the base.																		
A. Section includes:			B. Use 3000-psi (20.7-MPa), 28-day compressive-strength concrete. Concrete materials, reinforcement, and placement requirements are specified in Division 03.*																		
1. Hangers and supports for electrical equipment and systems.			C. Anchor equipment to concrete base.																		
2. Construction requirements for concrete bases.			1. Place and secure anchorage devices. Use supported equipment manufacturer's setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.																		
1.02 QUALITY ASSURANCE			2. Install anchor bolts to elevations required for proper attachment to supported equipment.																		
A. Comply with NFPA 70.			3. Install anchor bolts according to anchor-bolt manufacturer's written instructions.																		
PART 2 - PRODUCTS			3.05 PAINTING																		
2.01 SUPPORT, ANCHORAGE, AND ATTACHMENT COMPONENTS			A. Touchup: Clean field welds and abraded areas of shop paint. Paint exposed areas immediately after erecting hangers and supports. Use same materials as used for shop painting. Comply with SSPC-PA 1 requirements for touching up field-painted surfaces.																		
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:			1. Apply paint by brush or spray to provide minimum dry film thickness of 2.0 mils (0.05 mm).																		
a. Allied Tube & Conduit.			B. Galvanized Surfaces: Clean welds, bolted connections, and abraded areas and apply galvanizing-repair paint to comply with ASTM A 780.																		
b. Cooper B-Line, Inc., a division of Cooper Industries.																					
c. ERICO International Corporation.																					
d. GS Metals Corp.																					
e. Thomas & Betts Corporation.																					
f. Unistrut, Tyco International, Ltd.																					
g. Wesanco, Inc.																					
h. Approved equal.																					
2. Metallic Coatings: Hot-dip galvanized after fabrication and applied according to MFMA-4.																					
3. Nonmetallic Coatings: Manufacturer's standard PVC, polyurethane, or polyester coating applied according to MFMA-4.																					
4. Painted Coatings: Manufacturer's standard painted coating applied according to MFMA-4.																					
5. Channel Dimensions: Selected for applicable load criteria.																					
B. Raceway and Cable Supports: As described in NECA 1 and NECA 101.																					
C. Conduit and Cable Support Devices: Steel and malleable-iron hangers, clamps, and associated fittings, designed for types and sizes of raceway or cable to be supported.																					
D. Support for Conductors in Vertical Conduit: Factory-fabricated assembly consisting of threaded body and insulating wedging plug or plugs for non-armored electrical conductors or cables in riser conduits. Plugs shall have number, size, and shape of conductor gripping pieces as required to suit individual conductors or cables supported. Body shall be malleable iron.																					
E. Structural Steel for Fabricated Supports and Restraints: ASTM A 36/A 36M, steel plates, shapes, and bars; black and galvanized.																					
F. Mounting, Anchoring, and Attachment Components: Items for fastening electrical items or their supports to building surfaces include the following:																					
1. Powder-Actuated Fasteners: Threaded-steel stud, for use in hardened portland cement concrete, steel, or wood, with tension, shear, and pullout capacities appropriate for supported loads and building materials where used.																					
a. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:																					
1) Hilli Inc.																					
2) ITW Ramseil/Red Head, a division of Illinois Tool Works, Inc.																					
3) MKT Fastening, LLC.																					
4) Simpson Strong-Tie Co., Inc., Masterseal Fastening Systems Unit.																					
5) Approved equal.																					
2. Mechanical-Expansion Anchors: Insert-wedge-type, zinc-coated steel, for use in hardened portland cement concrete with tension, shear, and pullout capacities appropriate for supported loads and building materials in which used.																					
a. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:																					
1) Cooper B-Line, Inc., a division of Cooper Industries.																					
2) Empire Tool and Manufacturing Co., Inc.																					
3) Hilli Inc.																					
4) ITW Ramseil/Red Head, a division of Illinois Tool Works, Inc.																					
5) MKT Fastening, LLC.																					
6) Approved equal.																					
3. Concrete Inserts: Steel or malleable-iron, slotted support system units similar to MSS Type 18; complying with MFMA-4 or MSS SP-58.																					
4. Clamps for Attachment to Steel Structural Elements: MSS SP-58, type suitable for attached structural element.																					
5. Through Bolts: Structural type, hex head, and high strength. Comply with ASTM A 325.																					
6. Toggle Bolts: All-steel springhead type.																					
7. Hanger Rods: Threaded steel.																					
2.02 FABRICATED METAL EQUIPMENT SUPPORT ASSEMBLIES																					
A. Description: Welded or bolted, structural-steel shapes, shop or field fabricated to fit dimensions of supported equipment.																					
B. Materials: Comply with requirements in Division 05 for steel shapes and plates.																					
PART 3 - EXECUTION																					
1.01 APPLICATION																					
A. Comply with NECA 1 and NECA 101 for application of hangers and supports for electrical equipment and systems except if requirements in this Section are stricter.																					
B. Minimum rod size shall be 1/4 inch (6 mm) in diameter.																					
C. Multiple Raceways or Cables: Install trapezoid-type supports fabricated with steel support system, sized so capacity can be increased by at least 25 percent in future without exceeding specified design load limits.																					
1. Secure raceways and cables to these supports with conduit clamps.																					
3.02 SUPPORT INSTALLATION																					
A. Comply with NECA 1 and NECA 101 for installation requirements except as specified in this Article.																					
B. Raceway Support Methods: In addition to methods described in NECA 1, EMT, IMC, and RMC may be supported by openings through structure members, as permitted in NFPA 70.																					
C. Strength of Support Assemblies: Where not indicated, select sizes of components so strength will be adequate to carry present and future static loads within specified loading limits. Minimum static design load used for strength determination shall be weight of supported components plus 200 lb (90 kg).																					
D. Mounting and Anchorage of Surface-Mounted Equipment and Components: Anchor and fasten electrical items and their supports to building structural elements by the following methods unless otherwise indicated by code:																					
1. To Wood: Fasten with lag screws or through bolts.																					
2. To New Concrete: Bolt to concrete inserts.																					
3. To Masonry: Approved toggle-type bolts on hollow masonry units and expansion anchor fasteners on solid masonry units.																					
4. To Existing Concrete: Expansion anchor fasteners.																					
5. Instead of expansion anchors, powder-actuated driven threaded studs provided with lock washers and nuts may be used in existing standard-weight concrete 4 inches (100-mm) thick or greater. Do not use for anchorage to lightweight-aggregate concrete or for slabs less than 4 inches (100 mm) thick.																					
6. To Steel: Welded threaded studs complying with AWS D1.1/D1.1M, with lock washers and nuts, and Beam clamps (MSS Type 19, 21, 23, 25, or 27) complying with MSS SP-69.																					
7. To Light Steel: Sheet metal screws.																					
8. Items Mounted on Hollow Walls and Nonstructural Building Surfaces: Mount cabinets, panelboards, disconnect switches, control enclosures, pull and junction boxes, transformers, and other devices on slotted-channel racks attached to substrate by means that meet seismic-restraint strength and anchorage requirements.																					
E. Drill holes for expansion anchors in concrete at locations and to depths that avoid reinforcing bars.																					
3.03 INSTALLATION OF FABRICATED METAL SUPPORTS																					
A. Comply with installation requirements in Division 05 for site-fabricated metal supports.																					
B. Cut, fit, and place miscellaneous metal supports accurately in location, alignment, and elevation to support and anchor electrical materials and equipment.																					
			radius PVC elbows with a minimum radius of 24" for 3/4" to 2" conduits and a minimum radius of ten times the conduit trade size for conduits larger than 2". (Note: As an example, a 2-1/2" conduit will require an elbow with a minimum radius of 30"). Pull rope used when PVC elbows are provided must be of a material and diameter that will not cause damage to inside surface of elbow when wire is pulled. Contractor will be required to replace any underground elbow determined to be damaged (grooved, cracked, etc.). Elbows under concrete floor slabs or rising up into footings must be RSC as specified hereinbefore.																		
			g. Provide bell ends on all conduits rising into pullboxes, switchgear, lighting poles, rooms and any location where raceway ends.																		
			h. All joints and fittings shall be glued using appropriate PVC cement.																		
			8. Cable Tray:																		
			a. Provide cable tray raceways for low voltage signal cables at locations shown on drawings. Cable trays shall be Chatsworth Products, Inc. (CPI) "FastTrac" series with all accessories and hardware for a complete installation. Provide supports, bend radii protection, and earth grounding.																		
			b. Minimum tray size shall be 2'H x 6"W and in 5' or 10' sections as determined by field conditions. Increase tray dimensions as necessary to conform to cable fill with a 50% margin for future cables.																		
			9. Cable J-Hooks: Low voltage signal cable "J-Hooks" shall be Caddy "CableCat" CAT425 for main runs with capacity for up to 425 4-pair UTP cables. For runs from main runs, provide Caddy "CableCat" CAT21 or CAT32 J-Hooks with capacity for up to 50 or 80 4-pair UTP cables. Provide with support device for construction encountered.																		
			2.2 BOXES AND ENCLOSURES																		
			A. All boxes and enclosures shall be suitable for the environment in which they are installed. This includes enclosures for switchboards, panels, control cabinets, terminal cabinets, disconnect switches, signal devices, and the like.																		
			B. Outlet Boxes:																		
			1. Outlet boxes shall be of welded construction or one piece deep, drawn steel, galvanized gang type. Octagon concrete rings may be folded type. Sectional boxes shall not be used. Boxes installed in any exterior location, where exposed to rain or where exposed to moisture laden atmosphere shall be cast screw plug type with gasketed weathertight covers. Where installed in finished areas, exposed boxes shall be cast screw plug type or other type that does not have unsued knobs.																		
			2. Each box shall be large enough to accommodate the required number and sizes of conduits, wires, splices, and devices but not smaller than size shown or specified. Unless otherwise specified or shown on Drawings, boxes shall be flush mounted with front edge of box or ring flush with wall or ceiling finish. Use plaster ring in plastered or gypboard applications. Examine Architectural Drawings for wall construction and finishes, and set box with appropriate plaster ring as required for flush installation.																		
			3. Switch and receptacle boxes shall be not less than 4" square by 1_1/2" deep for single devices, 4_1/16" by 1_1/2" deep for two devices. Telephone and signal boxes shall be not less than 4_1/16" square x 12_1/8" deep.																		
			4. Outlet boxes mounted in cabinets, tile, concrete block, brick, stone, wood, or similar material shall be rectangular in shape with square corners and straight sides, and installed without plaster rings. Such boxes shall be 3_1/16" high x 2_1/4" wide x 3_1/2" deep for a single device, or shall have suitable tile or masonry ring for larger box.																		
			5. Lighting outlets shall be 4" octagon, minimum, fitted with 3/8" malleable iron fixture stud.																		
			6. Boxes for special devices such as docks, speakers, fire alarm, television, and the like shall be particularly suited for intended use.																		
			7. Provide blank cover plates on all outlet boxes which are installed as part of an empty conduit system. Refer to finish material.																		
			C. Junction Boxes and Pullboxes:																		
			1. Boxes having an internal volume less than 100 cubic inches shall be as specified for outlet boxes. Boxes having internal volume greater than 100 cubic inches shall be of panelboard type construction except that covers shall be secured by screws or bolts.																		
			2. Boxes exposed to rain or installed in wet locations shall be specifically designed for the purpose.																		
			3. All boxes shall be installed so that covers are accessible after completion of the installation.																		
			4. Boxes shall not be installed in finished areas unless specific approval for such installation is granted by Architect.																		
			D. Box Mounting: Boxes shall be independently and securely supported in place by wood blocking spanning stud space or manufactured adjustable channel type hanger. Steel City, Raco, or approved equal. Use wood screws to fasten to wood blocking or sheet metal screws to attach to metal channel. Side strap mounting shall not be used. Attach blocking or channel to studs using wood screws. Sheetrock screws or deck screws shall not be used. Boxes installed in masonry, tile, or concrete block shall be secured with auxiliary plate or bar and be grouted in place. Surface boxes shall be supported with expansion screws, bolts, or anchors. Suspended boxes shall be supported with threaded rods or strut assemblies attached directly to structural members by means of bolts or anchors.																		
			E. Precast Concrete Boxes and Vaults:																		
			1. Boxes and Vaults: Precast high density reinforced concrete, rated for H20 vehicular traffic loading, unless shown otherwise on Drawings.																		
			2. Extensions: At sectional type boxes, provide a minimum of two precast extensions. Provide additional extensions as required to provide space in box for code required cable bending.																		
			3. Covers: Unless noted otherwise on drawings, covers shall be H20 vehicular traffic rated, steel checker plate, galvanized, with hold-down bolts. Covers shall be factory marked as follows:																		
			<table><tr><th>SYSTEM</th><th>MARKING</th></tr><tr><td>Power 600V or less</td><td>Electrical</td></tr><tr><td>Telephone</td><td>Telephone</td></tr><tr><td>Data Communications</td><td>Data</td></tr><tr><td>Clock, Signal, etc.</td><td>Signal</td></tr><tr><td>Fire Alarm</td><td>Fire Alarm</td></tr><tr><td>Lighting</td><td>Lighting</td></tr><tr><td>Grounding</td><td>Ground</td></tr></table>			SYSTEM	MARKING	Power 600V or less	Electrical	Telephone	Telephone	Data Communications	Data	Clock, Signal, etc.	Signal	Fire Alarm	Fire Alarm	Lighting	Lighting	Grounding	Ground
SYSTEM	MARKING																				
Power 600V or less	Electrical																				
Telephone	Telephone																				
Data Communications	Data																				
Clock, Signal, etc.	Signal																				
Fire Alarm	Fire Alarm																				
Lighting	Lighting																				
Grounding	Ground																				
			Where two or more low voltage systems (such as clock, fire alarm, telephone, etc.) occupy same box or vault, cover shall be factory marked "Signal".																		
			4. Size: Provide size shown on Drawings. If sizes are not shown, provide boxes sized per Codes. (Note: Minimum size may be indicated in Symbol List on Drawings.)																		
			2.3 ELECTRICAL COMPONENTS ACCESS DOORS																		
			A. KARP, Milcor, Newman, or approved equal, with concealed hinges, prime coated with rust inhibitive paint, screwdriver locks at interior and key operated cylinder locks at exterior locations. Style of door shall suit ceiling or wall construction, including fire rating. Doors shall be 14 gauge C.R. steel minimum.																		
			PART 3 - EXECUTION																		
			3.1 RACEWAY SYSTEMS																		
			A. Excavating and Trenching: Perform all excavations as required for the installation of the work included under this Section, including shoring of earth banks to prevent cave-ins and to protect workmen and equipment. Restore all surfaces, roadways, walks, curbs, walls, existing underground installation, etc., damaged or cut as a result of the excavations to their original condition in a manner approved by the Architect. Stop machine excavation for trenches, in solid ground, several inches above required grade line, then trim trench bottom by hand to accurate grade so that a firm and uniform bearing throughout entire length of duct is provided. In lieu of above hand excavation in bottom of trench, Contractor may excavate to depth no less than 6" below required grade line and place a bed of sand or granular soil, properly compacted to provide a uniform grade and to provide a firm support for duct throughout its entire length. Minimum conduit depth of pipe crown shall be 2'0" below finished or natural grade, unless detailed otherwise on Drawings. Conduits under parking lots, roadways, driveways, fire truck access routes, and other areas subject to vehicular traffic shall be installed a minimum of 24" below grade.																		
			B. Backfilling: No backfilling operations shall begin until the required tests and inspection has been made. Should any of the work be enclosed or covered up before it has been approved, Contractor shall, at his expense, uncover the work. After it has been inspected, tested, and approved, he shall make all repairs necessary to restore the work of other contractors to the condition in which it was found at the time of uncovering. Except under existing paved area, walks, roads, or similar surfaces, and in cases where rock is encountered, backfill more than 12" above the top of the pipe shall be made using suitable excavated material placed in 6" layers measured before compaction, and tamped by machine. Surface work shall be replaced to match the existing. Entire backfill for bored excavations under existing pavement, walks, roads, or similar surfaces, shall be made with clean sand compacted by treading.																		
			The contractor shall install a marking tape 6" below grade and directly above all electrical conduits. The tape shall consist of a 4 mil inert plastic film specifically formulated for prolonged use underground. It shall be highly resistant to alkalis, acids and other destructive agents found in the soil. Tape shall have a minimum tensile strength of 20 lbs. per 3" with strips and a minimum elongation of 500%. Tape shall bear a continuous painted message repeated every 18" to 36" warning of the installation buried below. The message shall read "CAUTION - ELECTRICAL POWER LINE BURIED BELOW" or "CAUTION - ELECTRICAL SIGNAL LINES BURIED BELOW" as applies. Installation instruction for the tape shall be printed with each message along the entire length. The tape shall be as that manufactured by Reed Industries, Inc., or approved equal. For those installations involving non-metallic pipe, tape shall be aluminum foil placed in two layers of inert plastic film enabling the tape to be inductively located. Terre Tape "D" Warning Tapes are acceptable. When conduit below is plastic, tape shall have metallic content and shall respond to metal detectors. Do not exclude this. It will be required to verify the installation of this tape.																		
			C. Flashing and Sealing: Flash and counterflash roof and wall penetrations in a manner described under other applicable sections of this Specification and as approved by the Architect. Conduits, ducts, etc., passing through finished walls and ceilings shall be fitted with steel escutcheon plates, chrome or paint finish as directed. Conduits and cables penetrating floors, walls and ceilings shall be sealed watertight at penetration. Conduits penetrating exterior walls other than concrete or masonry shall be sealed watertight with Vulkem 116 polyurethane sealant. Underground conduits stubbing up into a room shall be sealed around cables or pulsing with foam sealant. All flashing and sealing shall be provided by this Contractor.																		
			D. Unless otherwise specified, all raceway shall be installed concealed. Raceway may be run exposed on unfinished walls, in attics and roof spaces, and in electrical rooms when run to surface cabinets, panels, or gutters. Conduit shall not be installed in concrete slabs.																		
			E. Individual horizontal raceways not larger than 1_1/2" size shall be supported by means of straps or individual hangers. Individual horizontal raceways larger than 1_1/2" size shall be supported by individual hangers. Above accessible ceilings, spring steel fasteners, clips, or clamps specifically designed for supporting suspended single-conduits up to 1" size may be used in lieu of straps or hangers. Hanger rods used in connection with spring steel fasteners, clips, and clamps shall be either 1/4" diameter or larger galvanized steel rods.																		
			F. Where two or more horizontal raceways run parallel and at the same elevation, they shall be supported on multiple hangers. Each raceway shall be secured to the horizontal hanger member with a U-bolt, strap, or other specially designed and approved bolted fastener. Hanger rods used in conjunction with multiple hangers shall be 3/8" diameter or larger, galvanized steel rods.																		
			G. Vertical raceways not larger than 1_1/2" shall be supported by riser clamps at each floor or by straps not over 8" apart. Vertical raceways, conduits, and EMT larger than 1_1/2" shall be supported by riser clamps at each floor. Short vertical drops larger than 1_1/2" shall be supported by hangers due to the elbows at the tops and additionally secured to walls, columns, etc. by straps spaced not over 8" apart.																		
			H. Multiple conduit hangers shall consist of two or more steel hanger rods, a steel horizontal member, and all U-bolts, clamps, and other attachments necessary for securing hanger rods and conduits. Hanger rods shall be threaded either full length or for a sufficient distance at each end to permit at least 1_1/2" of adjustment. Horizontal members shall be standard structural steel shapes such as angles or channels or 1_1/2" x 1_1/2", No. 12, g/auge, cold formed, Ipped channels designed																		



<div> <div>SECTION 26 05 04</div> <div>VIBRATION AND SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS</div> </div> <div> <div>PART 1 - GENERAL</div> <div>1.1 WORK INCLUDED</div> <div> <div>A. Requirements of Divisions 00 and 01 and Section 26 05 00 apply to all work of this Section.</div> <div>B. Contractor shall provide all materials, labor, and the means and methods to complete the installation defined by the plans and these specifications.</div> </div> <div>1.2 REQUIREMENTS</div> <div> <div>A. Seismic Restraint Requirements: All electrical equipment and materials shall be braced against seismic forces in accordance with California Building Code, Chapter 16A, Provide lateral bracing as required. The field installation shall be subject to the review and approval of the DSA Structural Safety engineer.</div> <div>B. Light Fixture Seismic Bracing: All lighting fixtures suspended from ceiling or structure shall be braced to comply with California Building Code Part 2.</div> <div> <div>1. Suggested bracings and attachments are detailed on drawings. Bracing methods shown are general and may need to be modified to suit a particular location and other offering conditions.</div> <div>C. Electrical Distribution System Bracing: Electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3, as defined in ASCE 7-10 Section 13.6.4, 13.6.6 and 13.6.5.6, and 2016 CBC Section 1616A.1.23.</div> <div> <div>1. The bracing and attachments to the structure shall be detailed on the approved drawings or they shall comply with one of the OSHPO pre-approvals (OPAI) as modified to satisfy anchorage requirements of ACI 318, Appendix D.</div> <div>2. Copies of the manual shall be available on the jobsite prior to the start of hanging and bracing of the electrical distribution system.</div> </div> <div>D. Equipment Anchorage:</div> <div> <div>1. All electrical equipment components shall be anchored and installed per the details on the DSA approved construction documents. Where detail is not indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC, Section 1616A.1.23 and ASCE 7-10 Chapters 13, 26 and 29.</div> <div> <div>a. All permanent equipment and components.</div> <div>b. All temporary or moveable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, etc.</div> <div>c. Moveable equipment which is stationed in one place for more than eight hours and heavier than 400 pounds is required to be anchored with temporary attachments.</div> <div>2. The attachment of the following electrical components shall be positively attached to the structure but will not be detailed on the plans. The components shall have flexible connections provided between the component and associated conduit.</div> <div> <div>a. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly supports the component.</div> <div>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.</div> </div> <div>For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the DSA District Structural Engineer. The Project Inspector will verify that all components and equipment have been anchored in accordance with the above requirements.</div> </div> </div> </div> <div> <div>PART 2 - NOT USED</div> <div>PART 3 - NOT USED</div> </div> </div></div>	<div> <div>Panelboards: Shall be Square D, Eaton Electrical, or equal, as arranged as indicated on Drawings. Equipment on Drawings is based on Square D unless indicated otherwise in details on drawings. Manufacturers who cannot meet the requirements specified or shown will not be acceptable.</div> <div> <div>X. All access covers, plates, dead front panels, etc., of motor control centers shall be hinged and fitted with captive knurled fasteners and alignment tabs.</div> <div>Y. All multi-wire circuits must have multiple pole breakers per CEC.</div> </div> <div>2.2 CONTACTORS AND RELAYS</div> <div> <div>A. Shall be Zenith, Square D, Asco, or equal, as indicated on Drawings.</div> </div> <div>2.3 DISCONNECT SWITCHES</div> <div> <div>A. For 208V, 277V and 480V Equipment: Square D, GE, or equal, safety switches, heavy duty with cover/handle interlock, fused or non_fused as required. Furnish with enclosure suitable for application.</div> <div>B. For 120V Equipment: Square D, GE, or equal, horsepower rated with manual starters with properly sized overloads, handle guard and lock-off, and suitable enclosure.</div> <div>C. Instantaneous Water Heater (IWH) Disconnects: Branch circuit breaker shall be provided with padlocking device.</div> </div> <div>2.4 TERMINAL AND CONTROL EQUIPMENT CABINETS</div> <div> <div>A. Shall be of panelboard type construction and finish.</div> <div>B. Trim shall be fitted with hinged door and flush metallic latch (National Cabinet Lock #C8070 or equal).</div> <div>C. Doors shall provide maximum size openings to cabinet interior.</div> <div>D. Signal and telephone shall be provided with 5/8" backboard having a three_coat fire retardant white paint finish.</div> <div>E. Top of cabinet shall be 6/8" above finished floor.</div> <div>F. Control equipment cabinets shall be provided with suitable barriers to isolate devices in accordance with Codes.</div> <div>G. Provide ground bus at each backboard similar to panelboard ground bus, attached with screws.</div> </div> <div>2.5 SIGNAL TERMINAL BACKBOARDS</div> <div> <div>A. Backboards for Signal, Telephone, TV, Data, etc. shall be 3/4" Architectural Grade, APA Type A-C, Group 1, exposure 1 plywood, 8' high, and with shown on plans. Install with sanded side exposed.</div> <div>B. Each backboard shall be painted with three coats of white fire-retardant paint.</div> <div>C. Provide ground bus at each backboard. Where two or more backboards are located in same room, provide one ground bus in room. Ground bus shall be Storm Copper Components Co. #SCGB-8KT (4" x 16" with mounting) unless detailed otherwise on drawings. From bus, provide 1" C-#10 bare copper cable to building ground.</div> </div> <div>PART 3 - EXECUTION</div> <div>3.1 EQUIPMENT AND MATERIALS</div> <div> <div>A. General Requirements for Panelboards, Switchboards, Control Cabinets, Terminal Cabinets, Etc.:</div> <div> <div>1. Wall mounted enclosures shall be mounted with top of enclosure 6/8" above finished floor except as otherwise noted.</div> <div>2. Directories shall be typewritten and conform to circuit assignment at time of occupancy.</div> <div>3. Recessed enclosures shall be provided with a minimum of three 3/4" empty conduits stubbed into accessible space. Drawings may require additional conduits.</div> <div>4. Conduits shall enter cabinet through neat hole and perpendicular to entrance face.</div> <div>5. Conduits shall be fitted with insulated grounding bushing and bonded to ground bus.</div> <div>6. Only circuit wiring which originates in a panel may be run in the wireway of that same panel. Contractor may not use a panel wireway to run conductors to or from another panel.</div> <div>7. At adjustable trip breakers, all adjustments shall be set at maximum settings unless instructed otherwise on drawings or elsewhere in these specifications. Where breakers are programmable, contractor shall furnish any equipment required to perform programming per manufacturer's instructions. If manufacturer requires factory authorized service technician to make adjustments or perform programming, include all costs for such in bid.</div> </div> </div> </div>	<div> <div>b) Signal modules.</div> <div>c) Detectors.</div> <div>d) Signal devices</div> <div>e) Annunciator.</div> <div>f) Other devices [identify].</div> <div> <div>3) Normal Operation + Alarm Condition:</div> <div> <div>a) Total amp hours required.</div> <div>b) Total amp hours provided.</div> </div> </div> <div>1.4 CLOSEOUT SUBMITTALS</div> <div>A. Manuals:</div> <div> <div>1. Equipment supplier of systems to furnish Owner three wiring schematics for all items of equipment, installation instructions, and details of all routine maintenance and servicing which must be given systems by Owner. Manuals shall be provided in 5-ring binders, with title page, list of contents, and conspicuous label on cover and shall be delivered to District. Refer to Section 26 05 00 for additional requirements. Submit copy to Architect for approval before delivering to Owner.</div> <div>2. Furnish to District a printed copy of the fire alarm control panel programming upon completion of final system programming.</div> </div> <div>1.5 RECORD DOCUMENTATION</div> <div>A. Record Drawings: Refer to General Conditions. Final inspection will not be made until drawings are received and approved. Record Drawings shall include "As_Built" one line and wiring diagrams, with terminations identified, wire color coding schedule, pullbox locations, and conduit routing plans. Record drawings shall include FINAL addresses for all devices.</div> <div>1.8 QUALIFICATIONS</div> <div>A. Contractor Certification:</div> <div> <div>1. Fire alarm system installer shall be State certified as a Fire/Life Safety Technician by the Division of Apprenticeship Standards.</div> <div>2. The contractor installing the fire alarm system must have NICET Certified Technicians on staff. There shall be at least one NICET Level III or IV fire alarm systems certified technician on staff at the local office to review the submittals and plans prior to submission. In addition, the on-site job supervisor for the installing contractor must be a Level I (or higher) NICET certified in fire alarm systems. A minimum of 30% of personnel on-site must be NICET certified.</div> <div>3. Certificates of all individuals must be included with the submittals. Failure to provide proof of certification will be cause for rejection of the submittals without further review. The rejection of the submittals for this reason will count as a submittal review/rejection.</div> </div> <div>1.7 GUARANTEE</div> <div>A. Guarantee:</div> <div> <div>1. One firm to assume full responsibility for performance on all work of this section. Guarantee all equipment against defects in material and workmanship for two years and provide on_the_premises service during normal working hours for two years, at no cost to Owner if trouble is not caused by misuse, abuse, or accident, or at current labor rates if so caused. Provide manufacturer's written guarantee for equipment and parts.</div> <div>2. Service shall normally be available within 24 hours from service department of authorized distributor of manufacturer by factory trained servicemen.</div> <div>3. On_the_premises service at other than normal working hours to also be available, but labor charges for such calls to be paid by purchaser at Owner labor rates.</div> </div> <div>PART 2 - PRODUCTS</div> <div>2.1 SYSTEM OPERATION</div> <div> <div>A. Activation of any manual station or automatic detector shall cause the operation of all audible and visual signals. In addition to sounding local alarm signals, operation of manual stations or automatic detectors shall activate a digital communicator for two (2) methods of communication reporting per NFPA 72, Section 26.6.4.1.4 to remote S8575 compliant supervisory station. Remote station monitoring shall be coordinated by the Contractor with the Owner.</div> <div>B. The system shall be electrically supervised against open circuits and grounds on the wiring to the alarm and initiating devices.</div> <div>C. Contractor shall ensure synchronization of visual devices where required by NFPA 72.</div> </div> <div>2.2 STANDARD PRODUCTS</div> <div> <div>A. Equipment and accessories furnished under the terms of these specifications shall be the standard products of the manufacturers specified or required. All equipment shall be listed by U.L. and State Fire Marshal. New equipment shall be Edwards EST3 to match and be into existing campus system.</div> <div>B. Refer to drawings for devices used.</div> <div>C. Manual alarm_initiating devices shall be for semi_flush mounting, double action, non-break glass type, located as shown on plans. Each manual station shall have its own address. Manual stations shall conform to DSA-Access Compliance requirements. Operation of the manual station shall not require grasping of the handle. See fire alarm equipment schedule on plans.</div> <div>D. Heat Detectors (Addressable, 200°F) Shall be fixed temperature, 190°F. See fire alarm equipment schedule on plans.</div> <div>E. Smoke Detectors: Shall be addressable, photoelectric type with test switch, LED status indicator, and tamperproof looking base. See fire alarm equipment schedule on plans.</div> <div>F. Monitor Modules: Shall provide an address for a group of normally open initiating devices. See fire alarm equipment schedule on plans.</div> <div>G. Control Modules: Shall provide a single Form-C (SPDT) dry contact. See fire alarm equipment schedule on plans.</div> <div>H. Audible/Visual Devices: All fire alarm devices shall be UL listed and meet ADA requirements. All devices shall have a red finish. All fire alarm audible devices shall have the same basic sound and "temporal" pattern (ANSI S3.41). Piezo horns and mini-horns are not acceptable. Strobes shall be synchronized.</div> <div>I. Voice Evacuation Combination Speaker/Visual Alarm Initiating Devices:</div> <div> <div>1. Wall Mounted Speaker/Strobe: Shall be semi-flush mounted. Speaker shall have field selectable 25V or 70V input and power taps from 1/8 watt to 2 watts. Strobe shall be LED flasher type. Refer to drawings for Candela settings. See fire alarm equipment schedule on plans.</div> <div>2. Ceiling Mounted Speaker/Strobe: Shall be semi-flush mounted. Speaker shall have field selectable 25V or 70V input and power taps from 1/8 watt to 2 watts. Strobe shall be LED flasher type. Refer to drawings for Candela settings. See fire alarm equipment schedule on plans.</div> </div> <div>J. Sync Module: See fire alarm equipment schedule on plans.</div> <div>K. Voice Evacuation Audio Booster: See fire alarm equipment schedule on plans.</div> </div> <div>PART 3 - EXECUTION</div> <div>3.1 INSTALLATION REQUIREMENTS</div> <div> <div>A. Electrical Contractor shall retain the services of the duly appointed representative as specified hereinbefore, who shall furnish all equipment, make all connections to same, and place system in operation. Technician and workman employed shall be particularly skilled in this type of work. Technicians and workmen must have NICET certification as required hereinbefore. Fire alarm system contractors shall possess a valid C10 California Electrical Contractors license. Only contractors holding a valid license may perform any fire alarm work.</div> <div>B. Detector locations shown on drawings are approximate only. Exact locations shall be coordinated with lighting and mechanical equipment and shall be placed in accordance with manufacturer's recommendations (with respect to supply air diffusers, etc.).</div> <div>C. Detectors, strobes, speakers, and speaker/strobes in student toilet rooms and multipurpose room shall be provided with wire guards.</div> <div>D. Fire alarm circuits shall be terminated on screw terminals. Terminal blocks shall be Allen, Bradley Bulletin 1492 with 600V screw terminals for #22 to #10 conductors, mounted to type N22 channel, or approved equal. Submittal shall show internal elevation of terminal cabinets or backboards with equipment laid out.</div> <div>E. All cables entering terminal cabinet shall be identified with Brady or E-Z Code wire markers. Upon completion of installation, six copies of one_line "as_built" wiring diagram shall be furnished to Architect.</div> <div>F. Each cable run on wiring diagram shall be identified with exact wire marker code (numerical or alphabetical) as appears in terminal cabinets.</div> <div>G. Station locations shall be identified by school's actual room numbers and system shall be programmed accordingly. Coordinate actual room numbers with District. Coordinate final programming with District. Contractor shall furnish a printed copy of final programming to District.</div> <div>H. End_of_line resistors shall be installed in terminal cabinets.</div> <div>I. Color code wiring for the system to match existing color coding scheme.</div> <div>J. No splices shall occur in underground pullboxes. Fire alarm system wiring shall be continuous, without splices, from terminal cabinet to signal cabinet and signal cabinet to devices. All interior pullboxes shall be accessible and locations shall be recorded on "As_Built" drawings.</div> </div> <div>3.2</div></div>
---	--	---



Date Signed: June 4, 2020



DSA #02-118411  
FILE #48-C1

# EARLY COLLEGE PORTABLES

SOLANO COMMUNITY  
COLLEGE

4000 SUISUN VALLEY RD.  
FAIRFIELD, CA 94534

DSA APPROVED SET  
FOR CONSTRUCTION

## REVISIONS

NO.	DESCRIPTION	DATE
-----	-------------	------

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING  
HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED  
WORK OF HMR ARCHITECTS AND MAY NOT BE  
DUPLICATED, USED OR DISCLOSED WITHOUT THE  
WRITTEN CONSENT OF HMR ARCHITECTS

## ELECTRICAL SPECIFICATIONS

JUNE 1, 2020

DRAWN BY:	E4.2
CHECKED BY:	
JOB NO. 20016	



SECTION 27 10 00  
DATA COMMUNICATIONS

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Drawings and requirements of Division 01 and Section 26 05 00 apply to all work of this Section.

B. Furnish and install extensions to existing Data Communications System including all wiring and connections and other materials as shown on Plans and specified herein.

- Report percentage of work complete on a weekly basis.
- Completely coordinate with work of all other trades.
- Provide all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation, whether specifically indicated in the Contract Documents or not.

C. The work covered by the Contract Drawings and the specifications covers a complete installation, including both basic and channel links, for a Data Communications Network utilizing copper and optical fiber transmission media, including but not limited to:

- Category 6 horizontal cabling.
- Category 6a horizontal cabling.
- Optical fiber cables for data network backbones.
- Telecommunications outlets and connectors.
- Equipment mounting racks and cabinets.
- Category 6 modular patch panels.
- Category 6a modular patch panels.
- Optical fiber cabinets.
- Optical fiber connectors.
- Category 6 patch cables.
- Category 6a patch cables.
- Category 6 station cables.
- Optical fiber jumpers.
- Optical fiber and copper cable installation, testing and documentation.
- One Cat 6 and one Cat 6a data jack at each wireless access point location.
- All wireless access points will be furnished by the District and installed by the contractor.

1.2 RELATED DOCUMENTS

A. Code Requirements: Components and installation to meet latest rules and regulations for telecommunications cable systems of the California Building Code and California Code of Regulations, Title 24, Part 3, California Electrical Code.

B. Applicable Standards (including all addenda, errata, amendments, etc.):

- TIA-455-78-B, FOTP-78 IEC 60793-1-40 Optical Fibers - Part 1-40: Measurement Methods and Test Procedures - Attenuation
- ANSI/TIA-568-D, Commercial Building Telecommunications Cabling Standard
- ANSI/TIA-568-C.2, Balanced Twisted-Pair Telecommunication Cabling and Components Standards
- ANSI/TIA-568-3.D, Optical Fiber Cabling Components Standard
- ANSI/TIA-569-D, Telecommunications Pathways and Spaces
- ANSI/TIA-606-C, Administration Standard for Telecommunications Infrastructure
- BICSI/NECA-607, Standard for Telecommunications Bonding and Grounding Planning and Installation Methods for Commercial Buildings
- ANSI/TIA-758, Customer-Owned Outside Plant Telecommunications Infrastructure Standard
- IEEE 802.3, Ethernet
- TIA TSB 82, Informative Test Methods (ITMS) for Fiber-Optic Fibers, Cables Opto-Electronic Sources and Detectors, Sensors, Connecting and Terminating Devices and Other Fiber-Optic Components
- EIA TSB 63, Reference Guide for Fiber Optic Test Procedures
- BISO ITSIMM, Information Technology Systems Installation Methods Manual
- BICSI TDDM, Telecommunications Distribution Methods Manual

1.3 GENERAL REQUIREMENTS

A. The owner reserves the right to require the Contractor to remove from the project any such employee the Owner deems to be incompetent, careless or insubordinate.

B. All clean up activity related to work performed will be the responsibility of the Low Voltage Contractor and must be completed daily before leaving the site.

1.4 CONTRACTOR QUALIFICATIONS

A. To qualify for installation of the data communications extensions, the Contractor must possess the required license classification, trade certifications, a performance history, experience in the installation and termination of fiber optics cable systems, and proof of time in business.

B. License Classification: Contractor must possess a valid C-7 or C-10 California State Contractor's License. This license must have been issued two years prior to the date of this bid. No other license classification is acceptable.

C. BICSI Certifications: Contractor will use personnel certified by the trade organization BICSI. The vendor must have a Registered Communications Distribution Designer (RCDD) on staff which will be ultimately responsible for this project. The RCDD must have sufficient experience in this type of project as to be able to lend adequate technical support to the field forces during installation, during the warranty period, and during any extended warranty periods or maintenance contracts. The vendor must attach a resume of the responsible RCDD to the vendor's submittal for evaluation. Should the RCDD assigned to this project change during the installation, the new RCDD assigned must also submit a resume for review by the District. The vendor must also have BICSI registered installer and technicians on staff and assign them to this project. The project shall be staffed with installers and technicians, who, in the role of lead crafts-person, will be able to provide leadership and technical resources for the remaining crafts persons on the project. A minimum of 30% of personnel shall be BICSI registered telecommunications installers.

D. A factory authorized Leviton Network Installer. The contractor shall have successfully completed the program certification requirements. A copy of the Authorized Network Installer Certificate shall be included in contractor's submittal.

E. Performance History: Contractor must have successfully performed at least three projects of similar scope, within two years of the date of this bid. Proof of performance shall be in the form of reference sheets which shall include a brief description of the project, the beginning and ending contract price, the project foreman or superintendent's name, and the name, address, and telephone number of a project contact.

F. Fiber Optics Experience: Contractor must be able to prove to the satisfaction of Owner that they have had significant experience in the installation of fiber optics cable systems. Installation must include installation of fiber optics cable in innerduct, fiber breakout systems, fiber termination, a knowledge of interconnect equipment, and a thorough knowledge of testing procedures. Contractor must provide a minimum of three references supporting its claim of experience for similar projects within the two years prior to this bid. Documentation must be included with the submittal documents.

G. Time in Business: Contractor must have been in business, and in the business of installing telecommunications/data communications systems, continuously, for a period of at least three years, prior to the date of this bid. Contractor must submit at least one project reference for each of the three years prior to the date of this bid. The contractor must also maintain a full time staff at an established business location having appropriate parts and service facilities and the ability to provide a one-hour response time to Folsom Cordova Unified School District. Any contractor that is not able to meet these requirements will not be considered as an acceptable contractor for this project.

1.5 DEFINITIONS

A. Main Distribution Facility (MDF): The MDF is the location, within a building or complex of buildings, where the entire data communications system originates. It may include the physical location, enclosure, wire and cable management hardware, termination hardware, distribution hardware, and equipment racks. The MDF exists where shown on plans.

B. Intermediate Distribution Facility (IDF): The IDF is the location in a building where a transition between the backbone or vertical riser system and the horizontal distribution system occurs. It may include the physical location, enclosure, wire and cable management hardware, termination hardware, distribution hardware, and equipment racks. In this case, the IDFs are collocated with the CTBs (Computer Terminal Backboards) and provide the interface location between fiber distribution cable (backbone) and station cable (horizontal distribution).

C. Backbone Pathway: The backbone pathway consists of a series of conduits of chases, which connect the MDF to IDFs or IDFs to IDFs. It generally houses the vertical or backbone system.

D. Backboard: Backboard generally refers to the plywood sheathing lining the walls of data communications facilities. Backboard may also refer to the entire wall-mounted assembly, including wire management, wiring blocks, and equipment racks. In this case, the term Backboard is fully interchangeable with CTB and the equipment required to fulfill the scope of work below.

1.6 SYSTEM DESCRIPTION

A. The data and telephone structured cabling communications system shall consist of three components: termination equipment, a fiber optics backbone, and copper twisted-pair Category 6 workstation cabling (voice and data). The central location houses the MDF and each of the other locations shall house an IDF. Each fiber optics cable shall originate in the MDF and shall be terminated in its respective IDF. All fiber optic cables shall be enclosed in innerduct. The combination of innerduct with fiber optic cable shall be routed through a system of conduits and routing installed by the responsible contractor for that discipline, in accordance with the drawings. The drawings depict a typical conduit layout and fiber cable routing. From each IDF, one or more twisted-pair copper cables shall be routed to each data and telephone outlet location, either via routing established by the installing contractor or provided by Owner, within its respective building or buildings. These cables shall originate in an IDF and terminate in its respective data outlet location.

1.7 SCOPE OF WORK

A. Contractor shall provide materials for and install complete wiring/cabling and conduit extensions in accordance with this specification and the drawings and include all necessary components, whether included in this specification or not.

B. The installation shall include cable (fiber optic and twisted-pair copper), innerduct, fiber interconnect equipment, connectors (fiber and copper), jumpers, patch cables, station cables, wiring blocks, and data communications outlets. The necessary material and equipment are depicted throughout the specifications and applicable drawings. Contractor is responsible to supply Owner with all necessary components, whether included in the specifications and drawings or not.

C. The work performed under this specification shall be of good quality and performed in a workmanlike manner. In this context, "good quality" means the work shall meet industry technical standards and quality of appearance. The Owner reserves the right to reject all or a portion of the work performed, either on technical or aesthetic grounds.

1.8 MANUFACTURER

A. Contractor shall furnish and install all equipment, accessories, and materials necessary for a complete, functional fiber optics data distribution system in accordance with these Specifications and Drawings.

B. Throughout this specification, Leviton and other manufacturers are cited, along with specific part numbers. These products are District standards. Contractor may not provide alternates.

C. Unless specified otherwise in the following, the equipment furnished shall fall into five classes. Exceptions are annotated [CLASS EXEMPT]. The five classes are as follows:

- Class One: Fiber optics cable, copper cable (both station and backbone), fiber optic jumpers, copper patch cables, blocking kits, interconnection devices, wiring blocks, connectors (fiber and copper), and telecommunications outlets. Leviton, Optical Cable Corp., Superior Essex.
- Class Two: Fiber innerduct. Carlton.
- Class Three: Equipment racks and cabinets, CPI, Great Lakes.
- Class Four: Wire management panels, Leviton, Panduit.
- Class Five: Wire ties, printed labels, "D" rings, nuts, bolts, screws, and other miscellaneous hardware [CLASS EXEMPT].

1.9 SUBMITTALS AND SUBSTITUTIONS

A. Within 14 calendar days after the date of the award of the contract, the Contractor shall submit to the Owner for review one electronic copy in pdf format of a complete submission. The submission shall consist of six major sections with each section separated with sheet showing title of section.

- The first section shall be the "Index" which shall include the project title and address, name of the firm submitting the proposal, and name of the Architect. Each page in the submission shall be numbered chronologically and shall be summarized in the index.
- The second section shall include a copy of the Contractor's valid C, 7 California State Contractor's License, the contractor qualifications information required in Section 1.4 above, and a list of instrumentation to be used for system testing.
- The third section shall contain the comparative specification listing of any substitutions and a complete listing of the characteristics of the equipment in the specifications.
- The fourth section shall contain samples of proposed cable markers and labeling.
- The fifth section shall contain a complete, detailed satellite closet count, proposed floor plan and backboard plan, workstation count, and bill of materials.
- The sixth section shall contain shop drawings showing front and side elevations of backboard and rack mounted equipment and interconnections. Drawings shall be computer drafted and shall be part of submittals. Drawings shall show layout of all equipment at each location.

B. Refer also to Section 26 05 00 for other submittal requirements. Any contractor failing to include all required information shall be deemed non-responsive and may be disqualified, at the discretion of the Owner.

C. For purposes of determining conformity, technical and general information set forth on the respective data sheets by manufacturers named in Section 1.8 for each specified item shall be considered as part of these specifications and binding herein.

D. Two submittal reviews will be made by the Architect. Subsequent reviews will be charged to the Contractor. A rejection of a submittal or review of a partially presented submittal constitutes one submittal review.

1.10 RECORD DRAWINGS

A. Refer to General Conditions. Final Inspection will not be made until drawings are received and approved. Record Drawings shall include as built one\_line and wiring diagrams, with terminations identified, wire color coding schedule, pull box locations, and conduit routing plans.

1.11 PRE-INSTALLATION CONFERENCE

A. Schedule a conference a minimum of five calendar days prior to beginning work of this Section.

B. Agenda: Clarify questions related to work to be performed, scheduling, coordination, etc.

C. Attendance: Communications system installer (representor, Owner's Representatives, and other parties affected by the work of this Section).

1.12 GUARANTEE

A. One firm to assume full responsibility for performance on all work of this section. Guarantee all equipment against defects in material and workmanship for two years, and provide on the premises service during normal working hours for two years, at no cost to purchaser if trouble is not caused by misuse, abuse, or accident, or at current labor rates if so caused. Provide manufacturer's written guarantee for equipment and parts to Owner.

B. Service shall normally be available within 24 hours from service department of authorized distributor of manufacturer by factory trained serviceperson.

C. On the premises service at other than normal working hours to also be available, but labor charges for such calls to be paid by purchaser at current labor rates.

1.13 FUNCTION AND OPERATION

A. Upon completion of the work outlined in this specification, the system shall be capable of transmitting data at a rate of 1gb/s (Category 6).

B. The fiber optics cable system shall be capable of transmitting signals with a bandwidth of up to 600 MHz at either 850 or 1300 nm. The cumulative signal loss through connectors, jumpers, couplers, and fiber cable shall be less than 10dB.

C. Work station cable, commencing at the wiring blocks, shall be installed in accordance with ANSI/EIA/TIA TSB standards and shall be capable of transmitting a signal at Category 6 level with acceptable attenuation losses and cross-talk attenuation. The entire workstation cable system, including wiring blocks, cable, and telecommunications outlets shall be tested for Category 6 compliance. The cabling system shall be channel tested to the standard for Cat 6.

PART 2 - PRODUCT AND INSTALLATION SPECIFICATIONS

2.1 GENERAL

A. Throughout this Part 2, material quantities and minimum installation practices are given. These quantities and instructions are given for reference purposes only. It is the responsibility of the Contractor to provide appropriate quantities of materials and install them to manufacturer specifications as to provide a complete, functional system.

2.2 FIBER INNERDUCT

A. Description: From the MDF to each IDF, segments of fiber optics innerduct shall be installed in the conduit system.

1. Product: Carlton Riser-Guard DG4X1C-500, 1\_1/4" Outside Plant Fiber Optics Innerduct with pull tape.

2.3 FIBER DISTRIBUTION

A. Description: From the MDF to each IDF, a continuous segment of fiber cable(s) shall be installed. Routing shall be via conduit in accordance with electrical drawings. The cable shall not be extended more than 50' into the building interior unless enclosed in conduit.

1. Products:

- Single Mode: Optical Cable Corp., DX012DLS9YR, 12-strand single mode.
- All fibers shall be terminated and connected at each computer rack location.
- All fibers shall be terminated in type SC connectors (one SC connector for each of fiber).
- Single Mode: Leviton SC Fusion Splice Connector, Single Mode, SPSCS-12A.

2.4 COPPER BACKBONE CABLE (EXCHANGE CABLE)

A. Description: From the MDF to each IDF, a continuous segment of 25 or 50 pair (or as required) outside plant cable shall be installed. This cable shall be routed along with the fiber optic cable. The cable shall be suitable for underground installation. Each end of each cable shall be "dammed", at the breakout point, to halt the flow of gel. Refer to Signal Cable Schedule on construction drawings for specified cable.

2.5 WORK STATION CABLE

A. Description: From each IDF, 4\_pair, Category 6 or 6a cables shall be routed to each work station (data outlets) served by the IDF. Cables shall be routed from the MDF to each workstation located in its building. Data-outlet locations are depicted on the drawings and in the Outlet Summary.

1. Product:

- Category 6: Superior Essex NextGain Category 6+ cable, 54-246-2A (riser/blue) and 54-246-8B (plenum/white). Where cable is to be installed in "wet" environments (underground conduit, conduit installed in or under concrete slabs, etc.), utilize Superior Essex OSP Broadband Category 6 BBDN, 64-001-6B.
- Cat 6a: Superior Essex 10Gan Category 6a cable, 64-272-4A (riser/white) and 64-272-3B (plenum/grey). Where cable is to be installed in "wet" environments (underground conduit, conduit installed in or under concrete slabs, etc.), utilize Superior Essex OSP Broadband Category 6a BBDN6A, 04-001-4A.
- All cables shall be Cat 6 except for wireless access points or where specifically called out as Cat 6a.

2.6 WALL PLATE

A. Leviton QuickPort 2, 4, or 6-port wall plate with Designation ID Window, Stainless Steel, single-gang faceplate, 43080-1L2, 43080-1L4, or 43080-1L6. Provide blank filler for all unused ports.

2.7 MODULAR OUTLETS

A. Cat 6: Leviton Category 6 eXtreme 6+ Connector, Crimson, 61110-RC6.

B. Cat 6a: Leviton Category 6a eXtreme Connector, Green, 6110G-RG6.

2.8 WIRELESS ACCESS POINT (WAP) OUTLET

A. At each wireless access point outlet, provide a 2-port outlet. One port shall be Cat 6 and one shall be Cat 6a.

2.9 MAIN DISTRIBUTION FACILITY (MDF)

A. Description: The MDF is existing and no work required at MDF.

2.10 INTERMEDIATE DISTRIBUTION FACILITY (IDF)

A. Description: An IDF shall consist of a "fire-rated" plywood backboard, equipment rack or cabinet, fiber interconnect equipment, wire management, and wiring blocks. Contractor shall submit a floor plan and backboard/cabinet plan to Technology Services for approval prior to installation.

1. Products:

- Dependent upon the amount of equipment necessary in a particular IDF cabinet, the District has three standard sized cabinets:
- Equipment Cabinets: Great Lakes, GL24WD, 24"X 24"W x 32.13"D (24-48 data ports).
- Equipment Cabinets: Great Lakes, GL36WD, 36"X 24"W x 32.13"D (48-96 data ports).
- Equipment Cabinets: Great Lakes, GL48WD, 48"X 24"W x 32.13"D (96-abe data ports).
- Fiber Interconnect: Leviton 1000 SDX 1RU Distribution and Splice Enclosure, empty, with sliding tray; accepts up to three SDX adapter plates or three SDX MTP cassettes and accepts up to three splice trays. 5R1UM-S03. One interconnect unit is required for each IDF.

c. Modular Patch Panels:

- Cat 6: Leviton QuickPort Patch Panel, 48-port, 49255-H48. All patch panels shall be fully populated with Cat 6 modular outlets. One port for each Cat 6 workstation served from the IDF with a minimum of 12 spare ports required. If the number of workstation cables, plus required spare count (12) is greater than 48, then an additional 48-port patch panel is required. Supply and install as many patch panels in the IDF as necessary to service all workstation cables plus the required spare count. Supply and install sufficient modular outlets (see "Workstation Outlets" below) to meet required data outlet count plus six spare.
- Cat 6a: Leviton QuickPort Patch Panel, 24-port, 49255-H24. All patch panels shall be fully populated with Cat 6a modular outlets. One port for each Cat 6a workstation served from the IDF with a minimum of 12 spare ports required. If the number of workstation cables, plus required spare count (12) is greater than 48, then an additional 48-port patch panel is required. Supply and install as many patch panels in the IDF as necessary to service all workstation cables plus the required spare count. Supply and install sufficient modular outlets (see "Workstation Outlets" below) to meet required data outlet count plus six spare.

d. Patch Cables:

- Cat 6: Cat 6 Patch Cables: Leviton Atlas-X1 Cat 6 SlimLine boot patch cable, 5', orange, 6D560-050.
- Cat 6a Patch Cables: Allen Tel snagless boot patch cable, 7', blue, AT4007-BU.

3. Contractor shall purchase patch cables. (One patch cable is required for each patch panel termination.)

2. Required Accessories and Quantities:

- Coupling Panels/Couplers:
- Single Mode Coupling Panels/Couplers: Leviton SDX Precision Molded Plate (BLUE), single mode OS2, duplex SC, six fibers, zirconia ceramic sleeve, 5F100-6LC. Two single mode coupling panels are required for each IDF fiber interconnect unit installed.
- Fiber Jumpers: One 2-meter SC/SC duplex single mode fiber jumpers is required for each IDF. CP Technologies, SC/SC laser-optimized OS2 fiber jumper, SC2-SMD-02; or Leviton SC-SC laser-optimized OS2 fiber jumper, UPDSC-S02.
- Horizontal Wire Management: Panduit WMPFZE Closed Cover Wire Management Panel (19" covers). (One unit is required for each fiber interconnect.)

d. "D" Rings: Provide and



CT1



FLOOR FRAMING: (CHECK ONE)  
 FLOOR LIVE LOAD: SEE COVER SHEET  
 FLOOR BEAM SIZE: SEE STRUCTURAL  
 JOIST TYPE: SEE STRUCTURAL SHEETS  
 JOIST SPACING: SEE STRUCTURAL SHEETS  
 \* INSULATION: NONE ☐ R-11 UNFACED ☒ R-19 UNFACED ☐  
 BOTTOM ENCLOSURE: CANVEX CW-600 ☒ NONE ☐  
 FLOOR DECK: PLYWOOD DECKING ☒ LIGHTWEIGHT CONCRETE ☐  
 REFERENCE: FLOOR FRAMING SHEETS  
 MISC: PLYWOOD FLOORS TO HAVE MIN R-11 INSULATION  
CONCRETE FLOORS TO HAVE NO INSULATION UNO

---

ROOF FRAMING: (CHECK ONE)  
 ROOF LIVE LOAD: SEE COVER SHEET  
 ROOF SLOPE: DUAL SLOPE ☐ MONO SLOPE ☒  
 JOIST SIZE & GRADE: SEE STRUCTURAL SHEETS  
 \* INSULATION: R-30 UNFACED ☒  
 FINISH ROOFING: 22 GA GALV STANDING SEAM ROOF ☐  
26 GA GALV STANDING SEAM ROOF ☒  
45 MIL TPO W/ 1/4" DENSDECK ☐ 60 MIL TPO W/ 1/4" DENSDECK ☒  
 ROOF SHEATHING: 3/4" C-D PLYWOOD ☒ NON 22 GA ROOFING  
 FRONT OVERHANG: NO ☒ YES ☐  
 REAR OVERHANG: NO ☐ YES ☒  
 OVERHANG MEMBER: ANGLE ☐ C-CHANNEL ☐  
 SOFFITS: OPEN SOFFITS ☐ CLOSED SOFFITS ☒  
 DRAINAGE SYSTEM: 26 GA GUTTERS & DOWNSPOUTS  
 REFERENCE: ROOF FRAMING SHEETS  
 NOTE: SOFFIT FINISH TO MATCH WALL FINISH

---

EXTERIOR WALLS WOOD STUD OPTION: ☒  
 WIND LOAD: SEE COVER SHEET  
 STUD SIZE: 2"x6" UNO BY WALL LEGEND ON COVER SHEET/FLR PLAN  
 SPACING: SEE CHART ON WALL FRAMING ELEVATIONS  
 GRADE: SEE CHART ON WALL FRAMING ELEVATIONS  
 INSULATION: R-19 UNFACED ☒  
 FIRE RESISTIVE CONSTRUCTION: NO ☐ YES ☐ (SEE FIRE RATED DETAIL SHEETS)  
 REFERENCE: WALL FRAMING ELEVATIONS  
 MISC: \_\_\_\_\_

---

EXTERIOR WALLS STEEL STUD OPTION: ☐  
 WIND LOAD: SEE COVER SHEET  
 STUD SIZE: 5 1/2" UNO BY WALL LEGEND ON COVER SHEET/FLR PLAN  
 SPACING: SEE CHART ON WALL FRAMING ELEVATIONS  
 GRADE: SEE CHART ON WALL FRAMING ELEVATIONS  
 \* INSULATION: R-19 UNFACED W/4" RIGID ☐  
 FIRE RESISTIVE CONSTRUCTION: NO ☐ YES ☐ (SEE FIRE RATED DETAIL SHEETS)  
 REFERENCE: WALL FRAMING ELEVATIONS  
 MISC: \_\_\_\_\_

---

NON-BEARING INTERIOR WALLS: (CHECK ONE)  
 STUD SIZE ☒ 2"x4" UNO BY WALL LEGEND ON COVER SHEET/FLR PLAN  
 STUD SIZE ☐ 3 5/8" UNO BY WALL LEGEND ON COVER SHEET/FLR PLAN  
 SPACING: 24" OC MAX (PER SECT 2308.9.2.3)  
 GRADE: ☒ HEMLOCK FIR MIN ☐ 20 GA MIN  
 PARTITION HEIGHT: TO RAFTERS ☐ BELOW RAFTERS ☐  
 INSULATION: R-13 UNFACED ☐ R-19 UNFACED ☐  
 FIRE RESISTIVE CONSTRUCTION: NO ☒ YES ☐ (SEE FIRE RATED DETAIL SHEETS)  
 REFERENCE: WALL FRAMING DETAILS  
 NOTES: \_\_\_\_\_

---

PLUMBING: (CHECK ONE)  
 ABS SCHEDULE 40 WASTE ☐  
 CAST IRON WASTE ☐  
 REFERENCE: PLUMBING SHEETS  
 NOTES: ALL PLUMBING WASTE VENTS SHALL BE 10'-0" MINIMUM AWAY FROM ANY FRESH INTAKE EQUIPMENT

---

SITE CONDITIONS: (CHECK ONE)  
 FOUNDATION TYPE: WOOD PAD (UP TO 48"x40") ☒  
CONCRETE FLUSH TO GRADE ☐ CONCRETE ABOVE GRADE ☐  
 REFERENCE: FOUNDATION SHEETS  
 RAMP & LANDING: NO ☐ YES ☒ (SEE RAMP/LANDING SHEETS)  
 RAMP & LANDING SURFACE FINISH: SEE RAMP AND LANDING SHEETS


---

AC UNIT TYPE: (CHECK ONE)  
WALL MOUNT ☒ ROOF MOUNT ☐  
 CONDENSATE LINE: COPPER ☐ PVC ☐  
 NOTES: INSULATE CONDENSATE LINES PER CMC 1106.9

---

EXTERIOR WALL FINISH: (CHECK ONE)  
5/8" SIDING (GROOVED AT 8" OC) ☒ DURATEMP  
STUCCO ON-SITE ☐  
 REFERENCE: ARCHITECTURAL DETAIL SHEETS  
 MISC: \_\_\_\_\_

\* = COORDINATE WITH WORSE CASE SCENARIO CHART ON MO.O.  
WORSE CASE SCENARIO CHART SHALL GOVERN WHEN WORSE CASE MATERIALS  
ARE USED. SEE NOTE BELOW WORSE CASE SCENARIO CHART.

NO.	DATE	REVISION
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT  APP: 02-118411 INC: REVIEWED FOR SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/> DATE: 06/11/2020		
PC PROFESSIONAL OF RECORD		
		
Date Signed: May 14, 2020		
PROFESSIONAL STAMP		
AOL ARCHITECT		
SHEET NO:		
A0.2.ps		



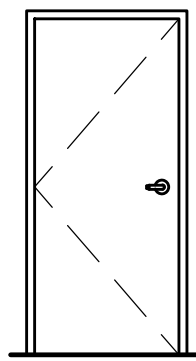
HARDWARE GROUP (ENTRY) 1		
QTY.	ITEM	DESCRIPTION
1	PANIC HARDWARE	'VON DUPRIN' 98/99L CD
1	KEYING	CONSTRUCTION KEYWAY
3	HINGES	'MCKINNEY': T2714 4.5"x4.5" NRP A5133
1	CLOSER	'NORTON': B301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	'PEMKO': 271A 36"
1	DOOR BOTTOM	'PEMKO': 216A 36"
1	WEATHER-STRIP	'PEMKO': 297A 36"x84"

[illegible]

DOOR MATERIAL LEGEND  
STL: STEEL DOOR—HOLLOW CORE

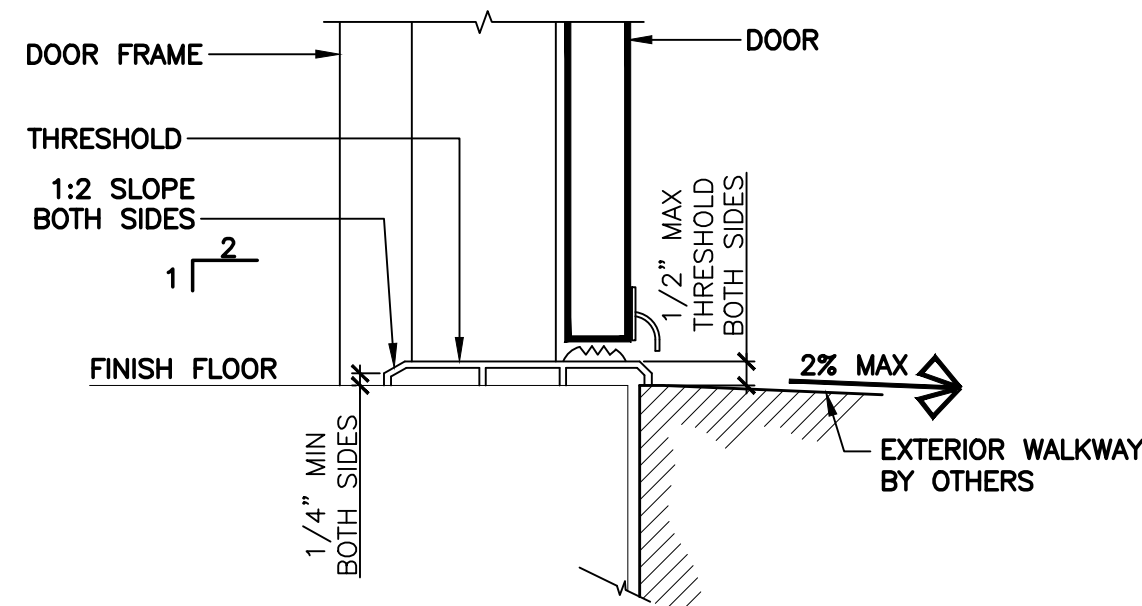
DOOR FRAME LEGEND  
KD: KNOCK DOWN-HOLLOW METAL

**NOTE:**  
CBC 1010.1.11 – NEW BUILDINGS ON A 12K PUBLIC SCHOOL CAMPUS SHALL BE PROVIDED WITH LOCKS WHICH ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANT LOAD OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INTERIOR. LOCKS SHALL CONFORM TO THE SPECIFICATION AND REQUIREMENTS OF SECTION 1010.1.9. EXCEPTIONS INCLUDE DOORS WHICH ARE NORMALLY LOCKED FROM THE OUTSIDE, RELOCATABLE MOVED WITHIN THE SAME CAMPUS, AND RECONSTRUCTION PROJECTS.



DOOR TYPE A

STANDARD DOOR TYPE



ACCESSIBLE THRESHOLD  
SCALE: NTS

[illegible]

NOTE: FINISHES BY OWNER SHALL COMPLY WITH SPECIFICATIONS ON SHEET A0.2

FLOOR FINISH LEGEND

CPT: 26oz. CARPET FLOORING  
4TB: 4" TOP SET BASE  
BO: BY OWNER

WALL FINISH LEGEND

VT: 1/2" VINYL TACK BOARD OVER  
1/2" GYPSUM BOARD

### CEILING FINISH LEGEND

AT: ACOUSTICAL TILE ARMSTRONG # 769 IN HEAVY DUTY T-BAR GRID

[illegible]

WINDOW FRAME LEGEND  
AL: ALUMINUM

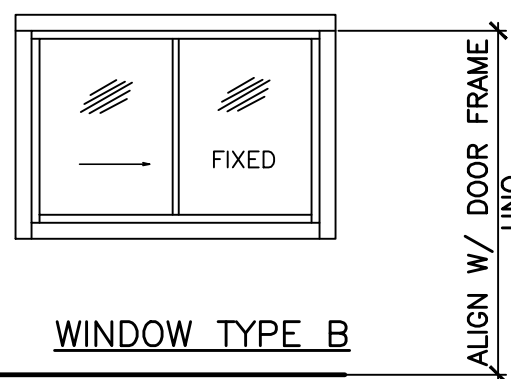
WINDOW FINISHES  
CA: CLEAR ANODIZED

## GLAZING TYPES

GLAZING TYPES  
1: 46% TEMPERED GRAYLITE  
2: 14% TEMPERED GRAYLITE  
3: CLEAR TEMPERED  
4: DUAL PANE  
5: SINGLE PANE

GLAZING NOTE

1. GLAZING U-FACTOR SHALL NOT EXCEED 0.35 MAX
2. SHGC SHALL BE 0.24 MAX

WINDOW TYPE



NO.

DATE

REVISION

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT


APP: 02-118411 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 06/11/2020


PC PROFESSIONAL OF RECORD

  
Date Signed: May 14, 2020  
PROFESSIONAL STAMP

AOL ARCHITECT

© GLOBAL Modular Inc. 2020

**GLOBAL**  
MODULAR INCORPORATED



San Jose, CA 95128  
1860 Chabot Ave. Suite 100  
RIVERSIDE, CA 92507  
Phone 951 686-3333  
Fax 951 686-3886

Marina C. Lirio, Director  
1120 Commerce Ave., #25  
Avalon, CA 95301  
Phone (209) 676-8029  
Fax (209) 676-8067

FLOOR PLAN

PROJECT: SOLANO COMMUNITY COLLEGE

DISTRICT:

SITE:---

DRAWN BY: g. GL

CHECKED BY:

DATE: 05.10.2020

DATE:

SHEET NO:

A1.2.ps

EXTERIOR ELEVATION B

EXTERIOR ELEVATION C

EXTERIOR ELEVATION D

EXTERIOR ELEVATION A

CLASSROOM  
1351 sf  
CARPET

4x8' MARKER BOARD

PANEL A

AC 1

100

200

10"

3'-2"

2'-2"

4'-0"

4'-0"

2'-2"

3'-2"

10"

12'-0"

12'-0"

3'-6"

12'-0"

36'-0"

40'-3"

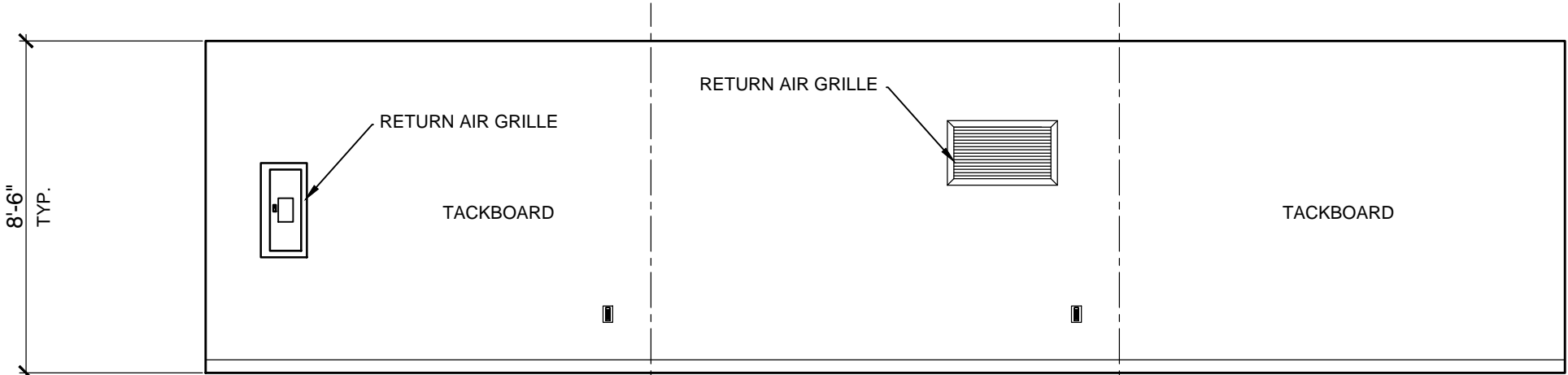
1

2

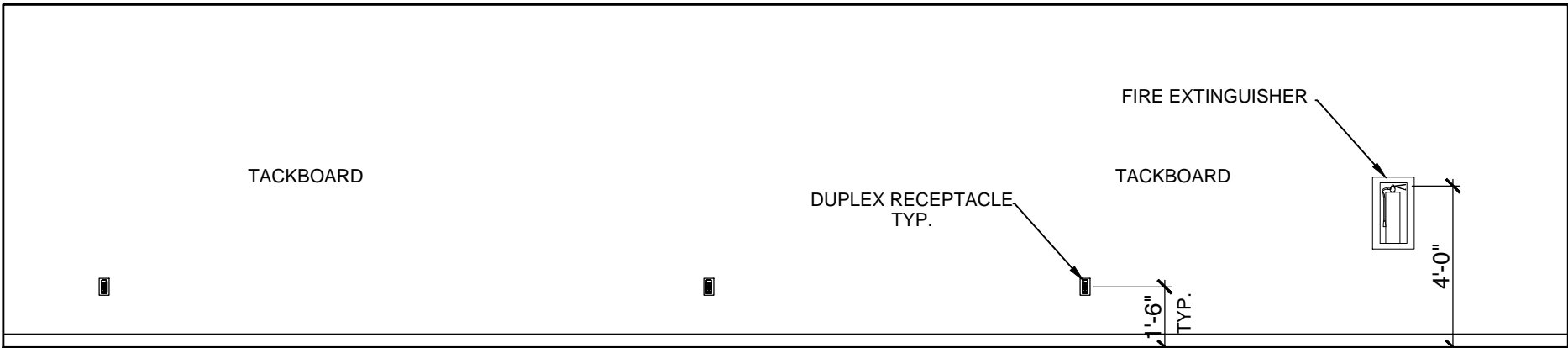
3

4

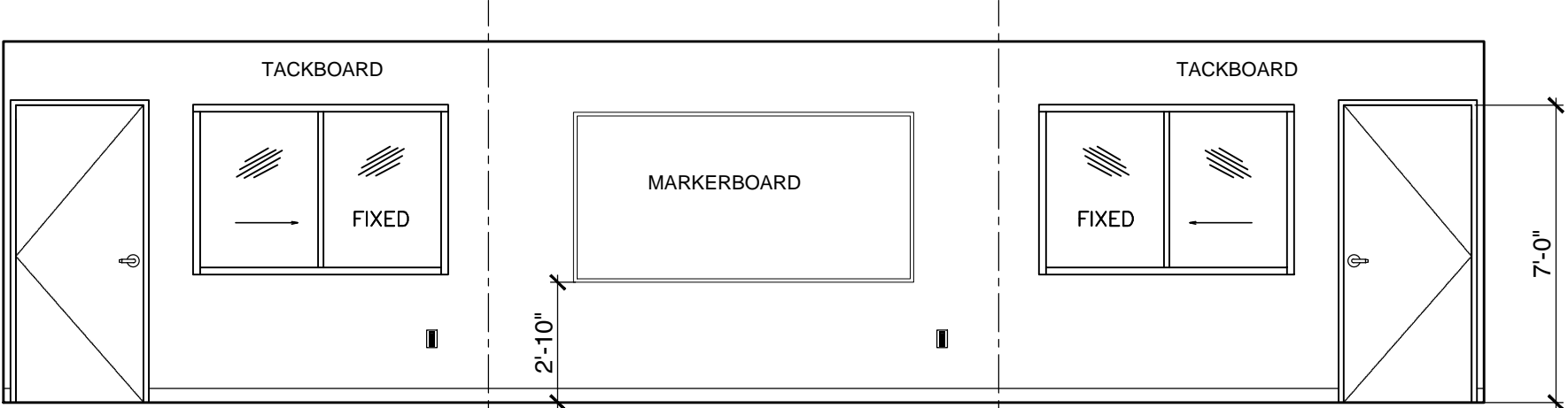




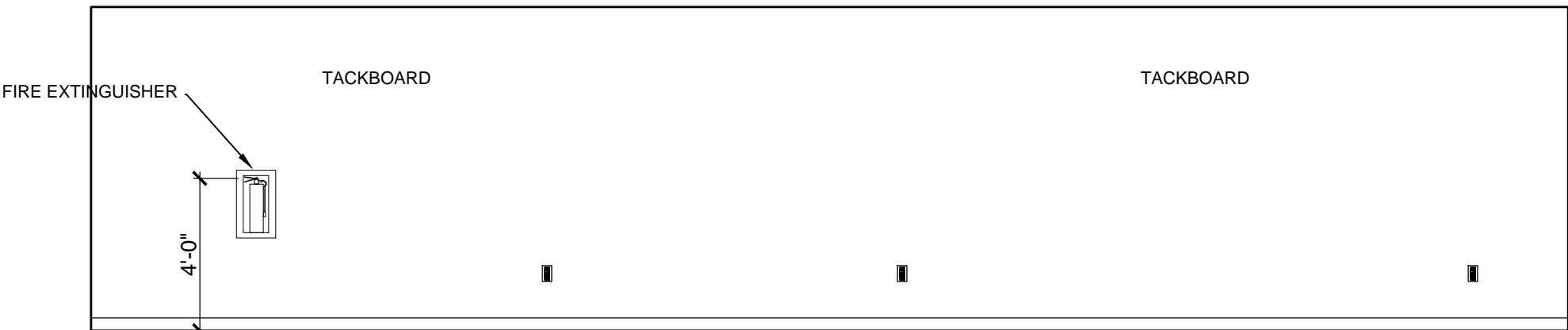
1



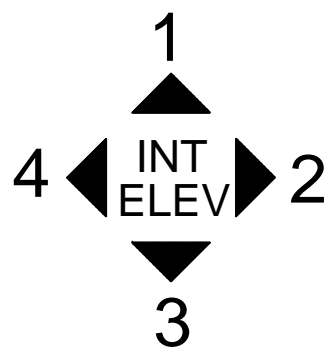
2



3




4



SEE FLOOR PLAN SHEET A1.2

NO.	DATE	REVISION
IDENTIFICATION STAMP		
DIV. OF THE STATE ARCHITECT		
APP: 02-118411 INC:		
REVIEWED FOR		
SS <input checked="" type="checkbox"/>	FLS <input checked="" type="checkbox"/>	ACS <input checked="" type="checkbox"/>
DATE: 06/11/2020		

PC PROFESSIONAL OF RECORD



Date Signed: May 14, 2020

PROFESSIONAL STAMP

AOL ARCHITECT

© GLOBAL Modular Inc. 2020

**GLOBAL**  
MODULAR INCORPORATED



Southern California Division  
1860 Chicago Ave. Suite 1-7  
Riverside, Calif. 92507  
Phone 951 686-3633  
Fax 951 686-5886

Northern California Division  
1120 Commerce Ave. #25  
Alhambra, CA 91801  
Phone (209) 976-8029  
Fax (209) 976-8067

INTERIOR ELEVATIONS

PROJECT: SOLANO COMMUNITY COLLEGE

DISTRICT:

SITE:--

DRAWN BY: g. GL

CHECKED BY:

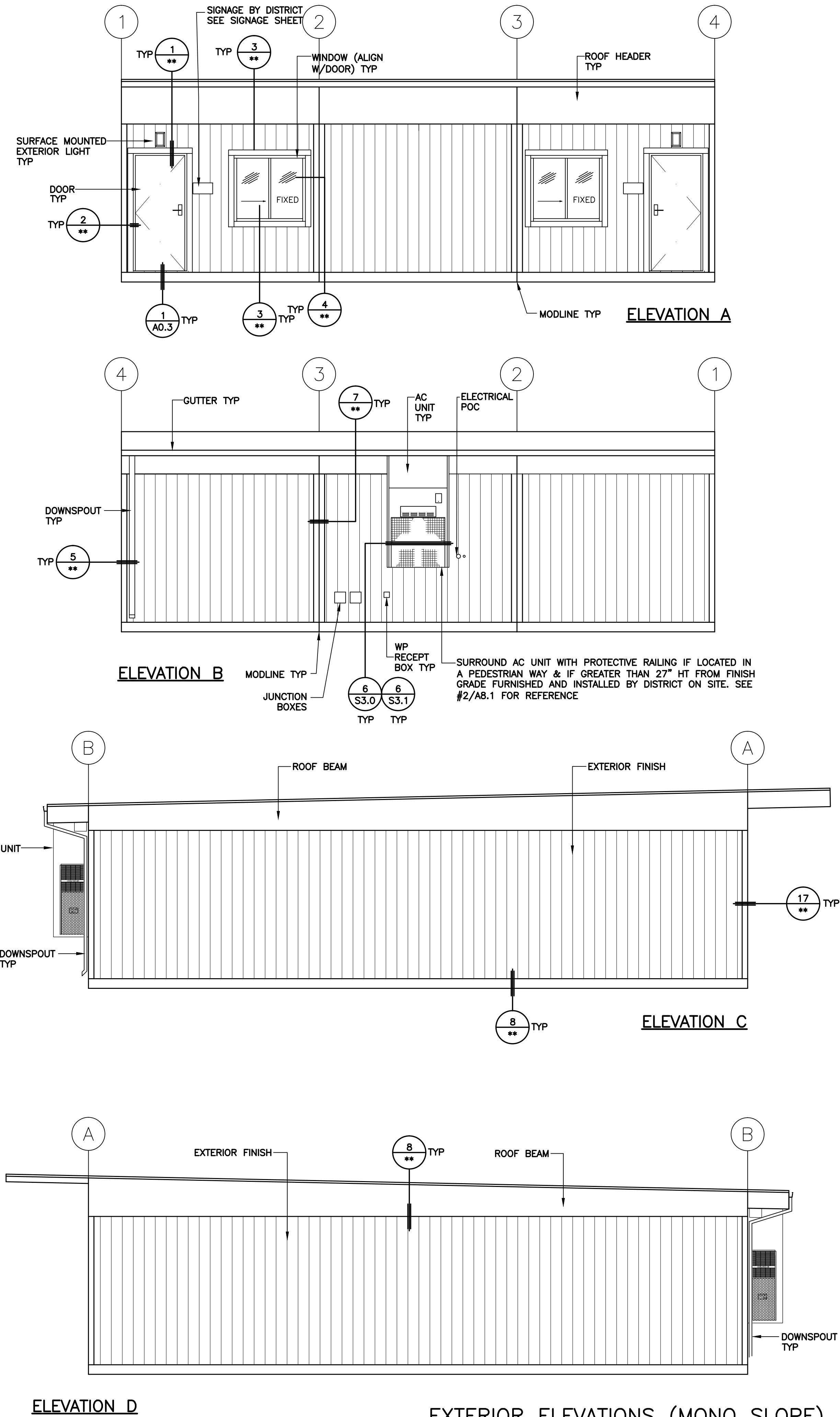
DATE: 05.10.2020

DATE:

SHEET NO:

A4.2.ps





\*\* = OPTIONS: (CHECK ONE)  
■ WOOD STUDS  
A8.0

EXTERIOR ELEVATIONS (MONO SLOPE)  
SCALE: 1/4" = 1'-0"  
• RAMP AND LANDING NOT SHOWN FOR CLARITY (SEE ELEVATIONS ON RAMP SHEETS)  
• SEE SHEET \*\* FOR ARCHITECTURAL DETAILS

NO.	DATE	REVISION
IDENTIFICATION STAMP		
DIV. OF THE STATE ARCHITECT		
APP: 02-118411 INC:		
REVIEWED FOR		
SS <input checked="" type="checkbox"/>	FLS <input checked="" type="checkbox"/>	ACS <input checked="" type="checkbox"/>
DATE: 06/11/2020		

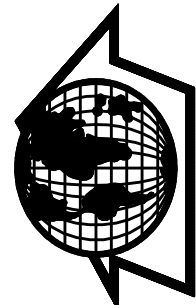
PC PROFESSIONAL OF RECORD



Date Signed: May 14, 2020  
PROFESSIONAL STAMP

AOL ARCHITECT

© GLOBAL Modular Inc. 2020  
**GLOBAL**  
MODULAR INCORPORATED  
Southern California Division  
1860 Chicago Ave. Suite L-7  
Riverside, CA 92507  
Phone 951-686-3533  
Fax 951-686-2686



Northern California Division  
1125 Commerce Ave. #25  
Alhambra, CA 91801  
Phone (209) 676-8029  
Fax (209) 676-8067

EXTERIOR ELEVATIONS

PROJECT: SOLANO COMMUNITY COLLEGE

DISTRICT:

SITE:---

DRAWN BY: g. GL

CHECKED BY:

DATE: 05.10.2020

DATE:

SHEET NO:  
**A5.2.ps**



NO.	DATE	REVISION
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT		
APP: 02-118411 INC:		
REVIEWED FOR		
SS <input checked="" type="checkbox"/>	FLS <input checked="" type="checkbox"/>	ACS <input checked="" type="checkbox"/>
DATE: 06/11/2020		

PC PROFESSIONAL OF RECORD



Date Signed: May 14, 2020

PROFESSIONAL STAMP

AOL ARCHITECT

- ⓘ THERMOSTAT +44" AFF BOT OF BOX (U.N.O.)
- ☒ SUPPLY AIR REGISTER PERFORATED FACE
- ☐ RETURN AIR REGISTER PERFORATED FACE
- | VOLUME AIR DAMPER
- ⊗ 4-WAY SPLAY WIRE WITH COMPRESSION STRUT
- INDICATES FREE SIDE. ALL OTHER SIDES SHALL BE FIXED. (SEE A2.2DRY.ps)
- INDICATES MAIN RUNNER LOCATIONS
- SUPPLY DUCT
- RETURN DUCT
- 12" NUMBER INDICATES DUCT SIZE

WALL MOUNT EQUIPMENT SCHEDULE

AC  
1  
BARD: W60HB-A05VPXXXX, R410a, WALL MOUNTED HEAT PUMP  
54,500 BTUH COOLING, EER=11.0  
50,712 BTUH HEATING, COP = 3.3  
1250 CFM @ .2 ESP, WT = 515 LBS  
208/230V-1PH-60CY, MCA = 67, MOP = 80

MECHANICAL SCHEDULE & NOTES

PROJECT: SOLANO COMMUNITY COLLEGE

DISTRICT:

SITE:---

DRAWN BY: g. GL

CHECKED BY:

DATE: 05.10.2020

DATE:

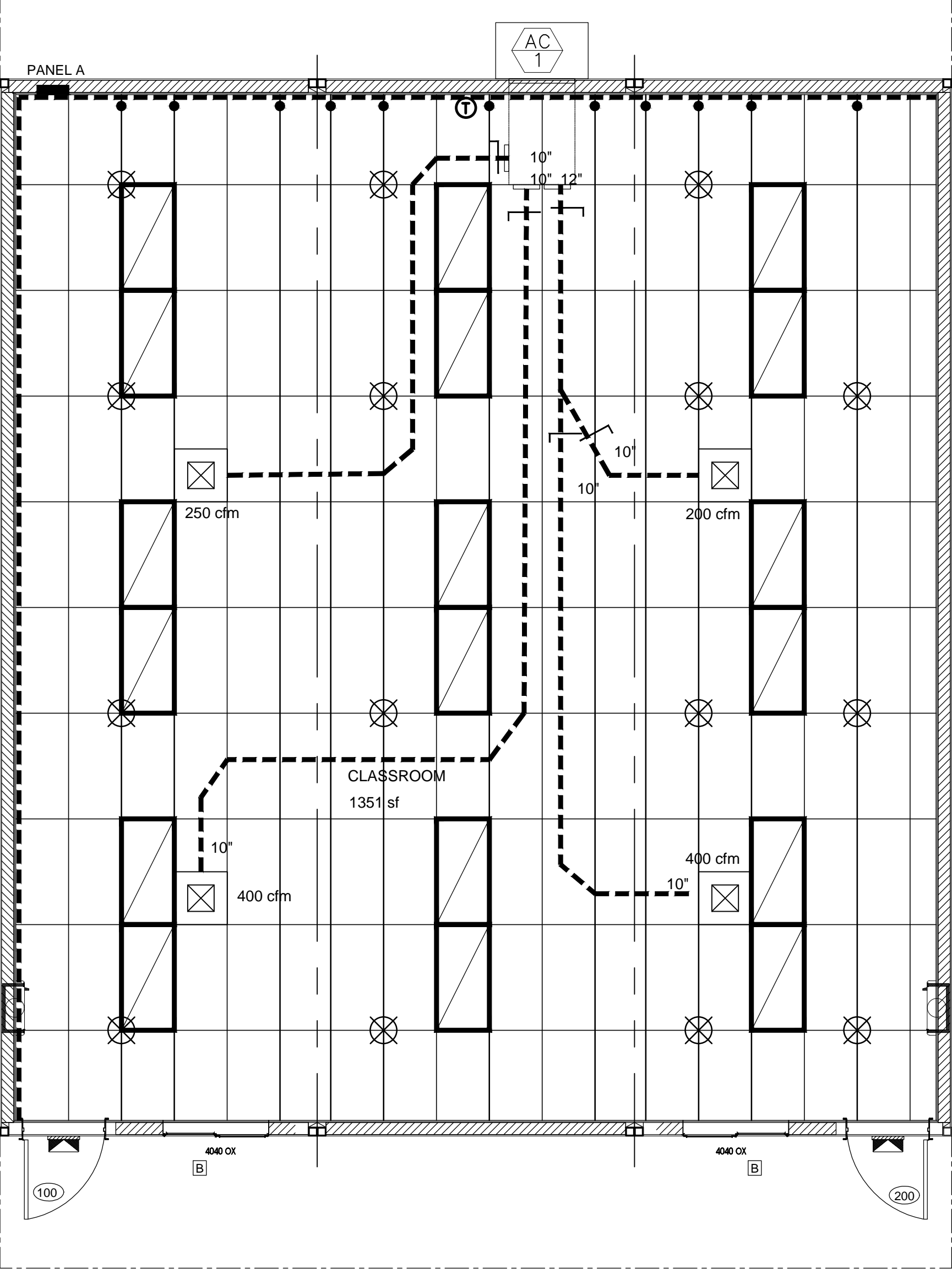
GLOBAL  
MODULAR INCORPORATED

1120 Commerce Ave., #25  
Alhambra, CA 95301  
Phone (209) 676-8029  
Fax (209) 676-8027

1860 CHICAGO AVE. Suite 1-7  
RIVERSIDE, CALIF. 92507  
Phone 951 686-3633  
Fax 951 686-3666

SHEET NO: M0.0.ps





NO.	DATE	REVISION
IDENTIFICATION STAMP		
DIV. OF THE STATE ARCHITECT		
APP: 02-118411 INC:		
REVIEWED FOR		
SS <input checked="" type="checkbox"/>	FLS <input checked="" type="checkbox"/>	ACS <input checked="" type="checkbox"/>
DATE: 06/11/2020		

PC PROFESSIONAL OF RECORD



Date Signed: May 14, 2020  
PROFESSIONAL STAMP

AOL ARCHITECT

MECHANICAL PLAN

PROJECT: SOLANO COMMUNITY COLLEGE

DISTRICT:

SITE:---

DRAWN BY: g. gl

CHECKED BY:

PROJECT: SOLANO COMMUNITY COLLEGE

DISTRICT:

SITE:---

DRAWN BY: g. gl

CHECKED BY:

DATE: 05.10.2020

DATE:

© GLOBAL Modular Inc. 2020

**GLOBAL**

MODULAR INCORPORATED

1120 Colton Ave., #25  
Alhambra, CA 91801  
Phone (209) 676-8029  
Fax (209) 676-8067

GLOBAL

MODULAR INCORPORATED

1120 Colton Ave., #25  
Alhambra, CA 91801  
Phone (209) 676-8029  
Fax (209) 676-8067

GLOBAL

MODULAR INCORPORATED

SHEET NO: M1.2.ps



SYMBOL LEGEND

(U.N.O.) = unless noted otherwise  
WP = waterproof  
IG = isolated ground  
R = RECESSED

DISTRIBUTION PANEL

PANEL

SUB-PANEL

A

2'x4' LED LOW PROFILE RECESSED TROFFER LIGHT FIXTURE  
LITHONIA #2GTL4 4400LM LP840 4000K  
120V, 34.5W, 0-10V DIMMING DRIVER

A1

2'x4' LED LOW PROFILE RECESSED TROFFER LIGHT FIXTURE  
WITH INTEGRAL EMERGENCY BATTERY PACK PS1055LCP.  
LITHONIA #2GTL4 4400LM LP840 4000K  
120V, 34.5W, 0-10V DIMMING DRIVER

2'x4' LED LOW PROFILE RECESSED TROFFER LIGHT FIXTURE  
LITHONIA #2GTL2 3300LM LP840 4000K  
120V, 32.3W, 0-10V DIMMING DRIVER

2'x4' LED LOW PROFILE RECESSED TROFFER LIGHT FIXTURE  
WITH INTEGRAL EMERGENCY BATTERY PACK PS1055LCP  
LITHONIA #2GTL2 3300LM LP840 4000K  
120V, 32.3W, 0-10V DIMMING DRIVER

RECESSED DOWN LIGHT RECESSED TROFFER LIGHT FIXTURE  
120V, 10W, DIMMABLE DOWN TO 10% OF FULL LIGHT

AC ELECTRONICS AC106 37W 120/277V  
EXTERIOR WALL MOUNT LED WALLPACK  
FIXTURE WITH 90 MIN EMERGENCY BACK UP PS1055LCP

EXIT

EXIT (RED)/ EMERGENCY WITH 90MIN BATTERY BACK UP  
LITHONIA LHQM-R-HO RO 4.3W

EXIT

EXIT (RED)/ EMERGENCY LIGHT WITH 90 MIN BATTERY BACK UP  
LITHONIA LHQM-LED-R-HO 4.3W

TC

TIME CLOCK (EXTERIOR LIGHTS) +44" AFF BOT OF BOX (U.N.O.)

PC

PHOTO CONTROL SWITCH  
LEVITON ODCOP-DOW

OS

OCCUPANCY SENSOR CEILING MOUNTED (LIGHTING)  
LEVITON OSC10-MOW LEVITON OSC20-MOW

OS

OCCUPANCY SENSOR (LIGHTING) WALL MOUNTED +44" AFF BOT OF  
BOX (U.N.O.)  
LEVITON ODS15-IDW

\$

TAMPER-RESISTANT KEY TOGGLE SWITCH  
LEVITON M1221-L

\$

DECORA SINGLE SWITCH +44" AFF BOT OF BOX (U.N.O.)

\$3

DECORA 3-WAY SWITCH +44" AFF BOT OF BOX (U.N.O.)  
LEVITON 5623-2W 120/277V

\$4

DECORA 4-WAY SWITCH +44" AFF BOT OF BOX (U.N.O.)

DIM2

OCCUPANCY SENSOR DIMMER SWITCH +44" AFF BOT OF BOX (U.N.O.)  
LEVITON OSD10-IOW

DIM

DIMMER SWITCH +44" AFF BOT OF BOX (U.N.O.)  
LEVITON DS710-10Z 120/277V

occ1

DECORA WALL SWITCH MULTI-TECHNOLOFY OCCUPANCY SENSOR  
LEVITON OSSMT 3x3 OSSMT-GDW

occ2

DECORA WALL SWITCH MULTI-TECHNOLOFY OCCUPANCY SENSOR  
LEVITON OSSMD

PP1

LEVITON POWER PACK OPP20-D2 120/230/277V

PP2

LEVITON POWER PACK OPP20-RD4 120/230/277V

DUPLEX RECEPTACLE-SPLIT WIRED,SWITCHED  
+18" AFF BOT OF BOX (U.N.O.)

QUADPLEX RECEPTACLE-SPLIT WIRED,SWITCHED  
+18" AFF BOT OF BOX (U.N.O.)

DUPLEX RECEPTACLE CEILING MOUNTED

DEDICATED DUPLEX RECEPTACLE +18" AFF BOT OF BOX (U.N.O.)

DUPLEX RECEPTACLE +18" AFF BOT OF BOX (U.N.O.)  
R=RECESSED

DUPLEX FLOOR RECEPTACLE OUTLET

QUAD-PLEX RECEPTACLE +18" AFF BOT OF BOX (U.N.O.)

QUAD-PLEX FLOOR RECEPTACLE OUTLET

DUPLEX RECEPTACLE/ GFCI +18" AFF BOT OF BOX (U.N.O.)

SINGLE CLOCK RECEPT +84"

J

J-BOX +18" AFF BOT OF BOX (U.N.O.)

DATA OUTLET - PROVIDE ONE (1) 5S BACK BOX, ONE (1) 1-1/2"C FROM  
BACK BOX TO ACCESSIBLE ATTIC SPACE. CABLES, JACKS AND FACEPLATE  
PER SPECIFICATIONS BY OTHERS.  
DATA OUTLET +18" AFF BOT OF BOX (U.N.O.)/ STUB TO ATTIC  
R=RECESSED

W

WALL PHONE OUTLET - PROVIDE ONE (1) 4S BACK BOX, ONE (1) 1"C  
FROM BACK BOX TO ACCESSIBLE ATTIC SPACE. CABLES, JACKS AND  
FACEPLATE PER PLAN AND SPECIFICATIONS BY OTHERS.

DATA / PHONE OUTLET - PROVIDE ONE (1) 5S BACK BOX, 1G RING, ONE  
(1) 1-1/2"C FROM BACK BOX TO ACCESSIBLE ATTIC SPACE. CABLES,  
JACKS AND FACE PLATE PER PLAN AND SPECIFICATIONS BY OTHERS.  
DATA (J-BOX) +18" AFF BOT OF BOX (U.N.O.)/ STUB TO ATTIC

FLOOR DATA OUTLET

FLOOR PHONE OUTLET

FLOOR DATA / PHONE OUTLET

SPECIAL PURPOSE OUTLET - WALL MOUNT

SPECIAL PURPOSE OUTLET - UNDER DESK MOUNT

TV

TV OUTLET

CR

CARD READER

DB

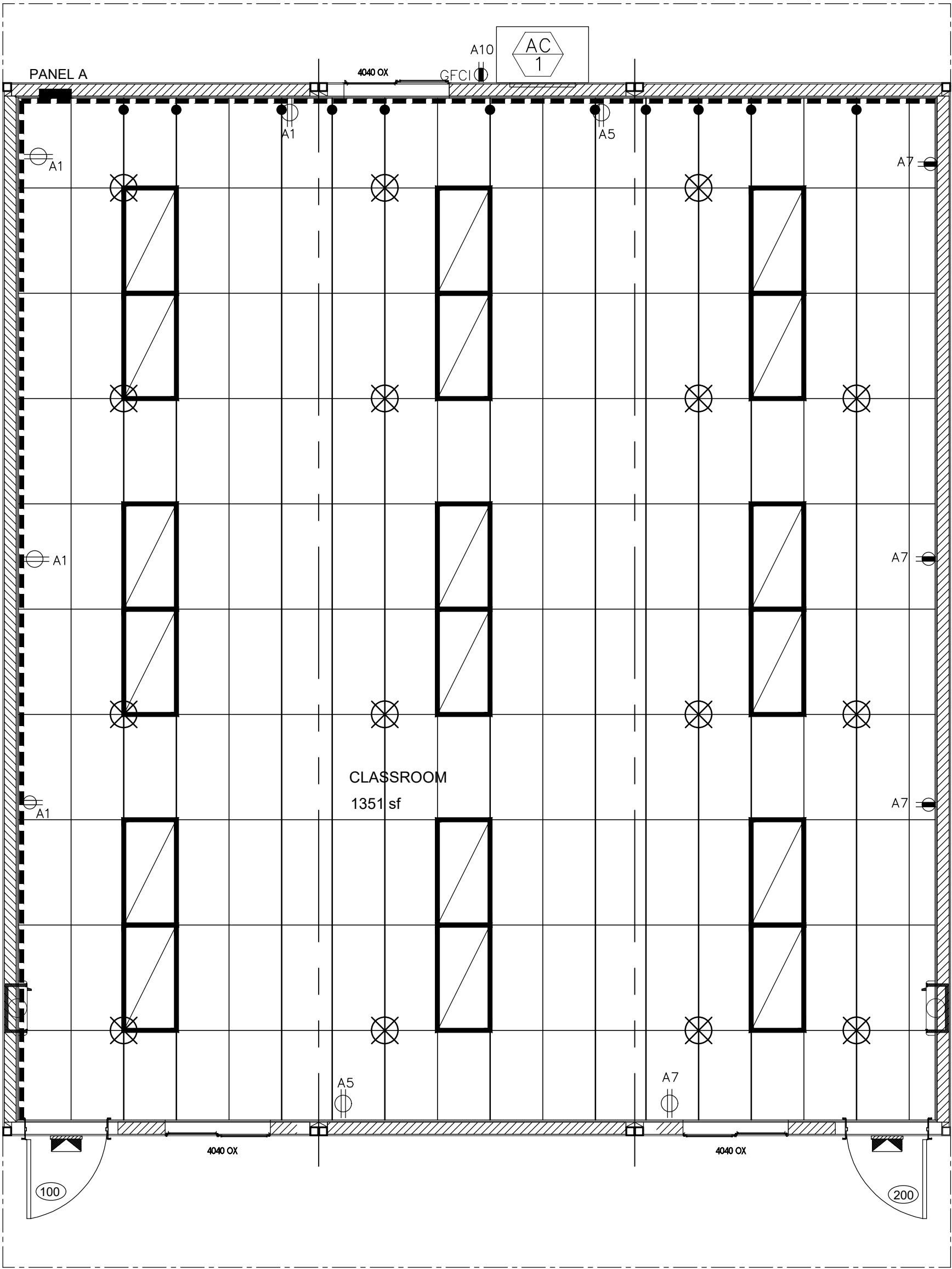
DOOR BELL

PB

PANIC BUTTON

POWER PANEL A									
Rated Amps: 200A		Main Bkr: 200A		Volts: 120/240V					
Interior: X				Phase / Wire: 1 PHASE/3 WIRE					
Exterior:				Flush: X					
NEMA Rated: 1				Surface:					
Description	Load	Ckt	Bkr		Ckt	Bkr	Load	Description	
RECEPTS	720	1	20	1	2	20	7705	AC 1	
				3			80	7705	AC 1
RECEPTS	360	1	20	5					
RECEPTS	720	1	20	7					
EXTERIOR LIGHTS/ EXIT	80	1	20	9			1	180	RECEPT/ GFI AC
INT LIGHTS	621	1	20	11			1	180	FIRE ALARM **
				13					
				15					
				17					
				19					
				21					
				23					
8045		9226		4568		240		95	
Watts		Watts		25% Watts		Voltage		Amps Per Phase	

\* CIRCUIT BREAKER TO BE ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS  
\*\* DEDICATED CIRCUIT (RED, LOCKING) LABELED PER NFPA 72:10.6.5.2



NO. DATE REVISION

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 02-118411 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 06/11/2020

PC PROFESSIONAL OF RECORD

PROFESSIONAL STAMP

AOL ARCHITECT

ELECTRICAL POWER PLAN

PROJECT: SOLANO COMMUNITY COLLEGE

DISTRICT:

SITE:---

DRAWN BY: g. GL

CHECKED BY:

DATE: 05-10-2020

DATE:

SHEET NO:

E2.0.ps



NO.

DATE

REVISION

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 02-118411 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 06/11/2020

PC PROFESSIONAL OF RECORD

PROFESSIONAL STAMP

AOL ARCHITECT

ELECTRICAL LIGHTING PLAN

PROJECT: SOLANO COMMUNITY COLLEGE

DISTRICT:

SITE:---

DRAWN BY: g. GL

CHECKED BY:

DATE: 05.10.2020

DATE:

GLOBAL  
MODULAR INCORPORATED

Southern California Division  
1860 Chicago Ave. Suite 1-7  
Irvingdale, CA 92620  
Phone: (949) 851-8533  
Fax: (949) 851-8566

1120 Commerce Ave., #25  
Alhambra, CA 91801  
Phone: (626) 286-8929  
Fax: (626) 286-8927

POWER PANEL A									
Rated Amps: 200A		Main Bkr: 200A		Volts: 120/240V					
Interior: X				Phase / Wire: 1 PHASE/3 WIRE					
Exterior:				Flush: X					
NEMA Rated: 1				Surface:					
Description	Load	Ckt Bkr		Ckt Bkr	Load	Description			
RECEPTS	720	1	20	2	7705	AC 1			
		3		4	7705	AC 1			
RECEPTS	360	1	20	5					
RECEPTS	720	1	20	6					
RECEPTS		7		8					
EXTERIOR LIGHTS/ EXIT	80	1	20	9	180	RECEPT/ GFI @ AC			
INT LIGHTS	621	1	20	10	180	FIRE ALARM **			
		11		12					
		13		14					
		15		16					
		17		18					
		19		20					
		21		22					
		23		24					
<div><div>9045</div><div>Watts</div></div> <div>+</div> <div><div>9226</div><div>Watts</div></div> <div>+</div> <div><div>4568</div><div>25% Watts</div></div> <div>+</div> <div><div>240</div><div>Voltage</div></div> <div>=</div> <div><div>95</div><div>Amps Per Phase</div></div>									

\* CIRCUIT BREAKER TO BE ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

\*\* DEDICATED CIRCUIT (RED, LOCKING) LABELED PER NFPA 72:10.6.5.2



NO.	DATE	REVISION			
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT					
APP: 02-118411 INC:					
REVIEWED FOR					
SS	<input checked="" type="checkbox"/>	FLS	<input checked="" type="checkbox"/>	ACS	<input checked="" type="checkbox"/>
DATE:		06/11/2020			

PC PROFESSIONAL OF RECORD



Date Signed: May 14, 2020  
PROFESSIONAL STAMP

AOL ARCHITECT

© GLOBAL Modular, Inc. 2020

**GLOBAL**  
MODULAR INCORPORATED

San Diego California Division  
1860 Camino Ave. Suite 1-7  
Riverside, Calif. 92507  
Phone 951 686-3633  
Fax 951 686-3686

Northridge California Division  
1120 Commerce Ave. #25  
Avalon, CA 95301  
Phone (209) 676-8029  
Fax (209) 676-8067

FIRE ALARM PLAN

PROJECT: SOLANO COMMUNITY COLLEGE  
DISTRICT:  
SITE:---

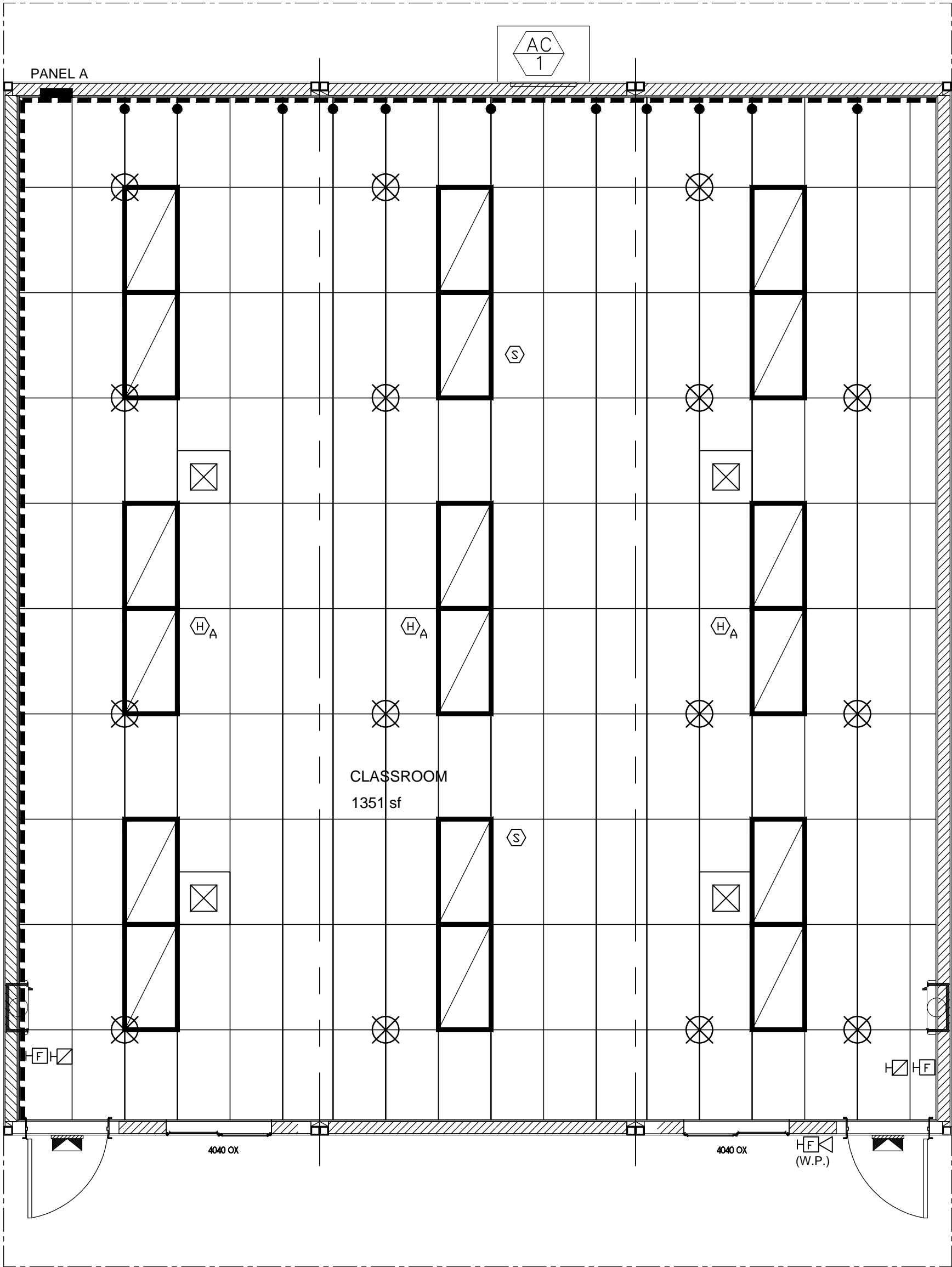
DRAWN BY: g. GL  
CHECKED BY:

DATE: 05.10.2020  
DATE:

SHEET NO:  
E2.2.ps

### SYMBOL LEGEND


SYMBOL	DESCRIPTION
	MANUAL PULL STATION (J-BOX ONLY) MOUNT +48" A.F.F. TO OPERABLE OF DEVICE
	WALL MOUNT FLASHING LIGHT STROBE (J-BOX ONLY) MOUNT +80"-96" A.F.F., OR 6" BELOW CEILING TO BOTTOM OF DEVICE WHICHEVER IS LOWER
	WALL MOUNT WEATHERPROOF EXTERIOR HORN (J-BOX ONLY) MOUNT +90" A.F.F. TO BOTTOM OF DEVICE  (W.P. - INDICATES WEATHERPROOF)
	CEILING MOUNT SMOKE DETECTOR (J-BOX ONLY)
	HEAT DETECTOR MOUNTED ABOVE CEILING (J-BOX ONLY)
	MAIN FIRE ALARM CONTROL PANEL N.I.C.
	FIRE EXTINGUISHER - 5 POUNDS MULTI-PURPOSE CHEMICAL CLASS A,B,C FIRES JL INDUSTRIES-COSMIC SE/2A-10BC OR EQUAL UL RATING IN WALL MTD. CABINET, HANDLE AT 48" A.F.F.





BUILDING CODES AND STANDARDS
2016 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CCR 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR (2015 INTERNATIONAL BUILDING CODE, VOLUMES 1 & 2 AND 2016 CA AMENDMENTS) 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR (2014 NATIONAL ELECTRICAL CODE AND 2016 CA AMENDMENTS) 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR (2015 IAPMO UNIFORM MECHANICAL CODE AND 2016 CA AMENDMENTS) 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR (2015 IAPMO UNIFORM PLUMBING CODE AND 2016 CA AMENDMENTS) 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, CCR 2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR (2015 INTERNATIONAL FIRE CODE AND 2016 CA AMENDMENTS) 2016 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEN), PART 11, TITLE 24 CCR 2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, CCR TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS 2013 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS

APPLICABLE STANDARDS
2016 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (CALIFORNIA AMENDMENTS) 2016 NFPA 14, INSTALLATION OF STANDPIPE AND SYSTEMS 2013 NFPA 17, DRY CHEMICAL EXTINGUISHING SYSTEMS 2013 NFPA 17A, WET CHEMICAL EXTINGUISHING SYSTEMS 2016 NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2016 NFPA 22, WATER TANKS FOR PRIVATE FIRE PROTECTION 2016 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES 2013 NFPA 25, INSPECTION, TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS (CALIFORNIA AMENDMENTS) 2016 NFPA 72, NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDMENTS) 2016 NFPA 80, STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVE 2015 NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS
FOR A COMPLETE LIST OF APPLICABLE STANDARDS REFER TO 2016 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80



**GLOBAL MODULAR**  
Incorporated

**AURORA MODTECH**  
DESIGNS

**MODULAR STRUCTURES**  
INTERNATIONAL, INC.  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
450 COMMERCE AVE  
ATWATER, CA 95301  
PHONE: (209) 876-8029  
FAX: (209) 876-8067  
WEBSITE: [WWW.GOV.NET](http://WWW.GOV.NET)

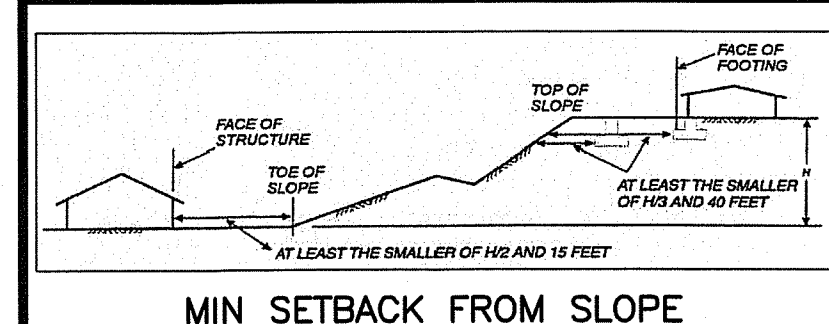
SOUTHERN CALIFORNIA DIVISION  
1090 HARLEY KNOX BLVD  
PERRIS, CA 92571  
PHONE: (951) 686-3633  
FAX: (951) 686-3662  
WEBSITE: [WWW.GOV.NET](http://WWW.GOV.NET)

# MANUFACTURED RELOCATABLE MODULAR BUILDINGS

## PC 02-116677 (FORMERLY 02-112217)

### 24'X40' THRU 120'X40'

### 2016 CBC



### OPERATIONS & MAINTENANCE:

BUILDING MANUFACTURE SHALL LEAVE FOR THE BUILDING OWNER AT OCCUPANCY OPERATING INFORMATION FOR ALL APPLICABLE MECHANICAL AND ELECTRICAL FEATURES, MATERIALS, COMPONENTS AND DEVICES INSTALLED IN THE BUILDING RELATED TO EFFICIENT ENERGY USE. IN ADDITION, THE BUILDING MANUFACTURER SHALL LEAVE MAINTENANCE INFORMATION FOR ALL FEATURES, MATERIALS, COMPONENTS, AND MANUFACTURED DEVICES THAT REQUIRE ROUTINE MAINTENANCE FOR EFFICIENT OPERATION OF MECHANICAL EQUIPMENT AND LIGHTING SYSTEM

### ABBREVIATIONS

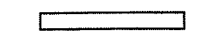
AB: Anchor Bolt ABV: Above AC: Air Conditioning, Alternating Current ADA: Americans with Disabilities Act of 1992 ADD: Addendum; Addition ADDL: Additional ADJ: Adjust, Adjustable, Adjacent AFF: Above Finished Floor AFG: Above Finish Grade AIA: American Institute of Architects ALT: Alternate, Alteration; Altitude ALUM: Aluminum AMP: Ampere, Ampacity AMT: Amount ANCH: Anchor, Anchorage ANOD: Anodized APPROX: Approximate APRVD: Approved ARCH: Architect, Architectural ASC: Above Suspended Ceiling ASCE: American Society of Civil Engineers ASME: American Society of Mechanical Engineers ASSOC: Association, Associate ASTM: American Society for Testing and Materials AUTO: Automatic AVG: Average BD: Board BEL: Below BETW: Between BKR: Breaker BLDG: Building BLK: Block BLKC: Blocking BM: Beam BOT: Bottom BP: Base Plate BRKR: Breaker BS: Both Sides BTU: British Thermal Units BTUH: British Thermal Units per Hour C/C: Center to Center CAB: Cabinet CHAN: Channel CI: Cast Iron CIR: Circle, Circular, Circuit CJ: Control Joint CL: Centerline CLR: Clear CNTR: Center, Counter CO: Cleanout, Conduit COL: Column CONC: Concrete CONN: Connection CONST: Construction CONT: Continuous, Continues, Control CRS: Cold Rolled Steel D: Deep, Depth DBL: Double DET: Detail DF: Douglas Fir DIA: Diameter DIM: Dimension DISL: Disposal DISP: Dispenser DIV: Division DL: Dead Load DN: Down DWG: Drawing DWGS: Drawings E: East (E): Existing EA: Each ES: Expansion Joint EL: Elevation, Elevator ELEC: Electrical ELEV: Elevator, Elevation EN: End Nail EPDM: Ethylene Propylene Diene Monomer EQ: Equal EXT: Exterior FE: Fire Extinguisher FF: Finished Floor FG: Finished Grade FIN: Finish, finished FLR: Floor FND: Foundation FOC: Face of Concrete FOF: Face of Finish FOS: Face of Studs, Face of Sill Plate FT: Foot, Feet, Fully FTG: Footing, Fitting GA: Gauge, Gage GALV: Galvanized GFCI: Ground Fault Circuit Interrupter GFI: Ground Fault Interrupted GI: Galvanized Iron GND: Ground H: High HDR: Header HF: Hem Fir HR: Hour HT: Height HVAC: Heating, Ventilating & Air Conditioning	ID: Inside Diameter IN: Inch INFO: Information INT: Interior INV: Invert J-BOX: Junction Box JST: Joint JT: Joist KWL: Kilowatt L: Length LB: Pound (weight), Log Bolt LH: Left Hand LL: Live Load LT: Light LWC: Light Weight Concrete MAX: Maximum MECH: Mechanical MFD: Manufactured MFC: Manufacturer, Manufacturing MFR: Manufacturer, Manufacturer MIL: One Thousandth of and Inch MIN: Minimum MIR: Mirror MISC: Miscellaneous MOD: Module MT: Mount, Mounted MTL: Material, Metal (N): New NEC: National Electrical Code NIC: Not In Contract NTS: Not To Scale O/O: Outside to Outside OC: On Center OD: Outside Diameter OH: Overhang OPNG: Opening OPP: Opposite PC: Piece, Pre-Checked PH: Phase PLY: Plywood PLUMB: Plumbing PREFAB: Prefabricated PSF: Pounds per square foot PSI: Pounds per square inch PT: Pressure Treated PVC: Polyvinyl Chloride QTY: Quantity RCP: Reflected Ceiling Plan REBAR: Reinforcing Bar RECEP: Receptacle REF: Refer, Reference, Refrigerator REQ: Require, Required REV: Reverse, Revise, Revision RF: Roof RGR: Rough RH: Right Hand RO: Rough Opening RT: Right S: South S/S: Side By Side SQ: Square Foot, Square Feet SHT: Sheet SHTG: Sheathing SIM: Similar SLV: Sleeve SPEC: Specification, Specifications SQ: Square SS: Stainless Steel ST: Steel Tube STD: Standard STIFF: Stiffener STL: Steel STRUCT: Structural T&B: Top and Bottom T&G: Tongue & Groove TEMP: Temporary, Tempered, Temperature THK: Thick, Thickness THRU: Through TN: Toe Nail TPO: Thermo Plastic Olefin TST: Top of Steel TSTAT: Thermostat TYP: Typical UL: Underwriters' Laboratories UNO: Unless Noted Otherwise UON: Unless Otherwise Noted USG: United States Gypsum Company V: Volt VERT: Vertical VTR: Vent Through Roof W: West, Width, Wide, Watt W/O: With W/O: Without WD: Wood WP: Waterproof, Weatherproof WR: Water Resistant, Water Repellent WT: Weight
--	---

### CAL GREEN NOTES

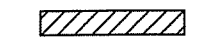
THIS PC WILL NOT BE PLACED IN ANY OF THE FOLLOWING LOCATIONS:

- WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT
- WITHIN THE 65 CNEL OR LDN NOISE CONTOUR OF A FREEWAY, EXPRESSWAY, RAILROAD OR INDUSTRIAL SOURCE GUIDE WAY
- WHERE EXPOSED TO NOISE LEVEL OF 65 DB LEQ-1-HR DURING ANY HOUR OF OPERATIONS


### DRAWING SYMBOLS




2"x4" WOOD STUD OR 2"x6" STEEL STUD



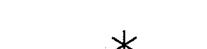
2"x6" WOOD STUD OR 5.5" STEEL STUD




2"x8" WOOD STUD OR 6" STEEL STUD



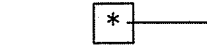
1 HR RATED (DARK LINE THROUGH SYMBOL)



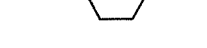
STC 40 REQUIRED WHEN USED FOR INTERIOR WALLS SEPARATING TENANTS OR PUBLIC SPACES. SEE INTERIOR WALL SCHEDULE ON SHEET A0.2




INDICATES DOOR TYPE




INDICATES WINDOW TYPE



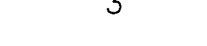
KEY NOTE SYMBOL



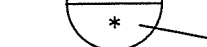
INDICATES INTERIOR ELEVATION ORIENTATION




INDICATES DETAIL #




INDICATES SHEET #



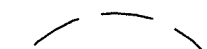
INDICATES DETAIL #




INDICATES SHEET #



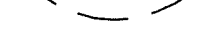
INDICATES EXTERIOR ELEVATION #




INDICATES SHEET #




5'-0" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESSIBLE MANEUVERING WITH 12" MIN. ENCRoACHMENT




48"x30" CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESS TO FIXTURE




INDICATES ROOM NAME




INDICATES ROOM NUMBER




60"x60" CLEAR FLOOR SPACE FOR WHEELCHAIR ENTRY ACCESS.




WHEELCHAIR ACCESSIBLE CLEAR FLOOR SPACE AT ACCESSIBLE WATER CLOSET



60"x59" AT FLOOR MOUNTED WATER CLOSET



60"x56" AT WALL MOUNTED WATER CLOSET



GRID LINE NUMBER OR LETTER

### DRAWING INDEX

SHEET NO.	ARCHITECTURAL	SHEET NO.	STRUCTURAL
A0.0	TITLE SHEET	S0.0a	STRUCTURAL NOTES AND SPECIFICATIONS
A0.1	SPECIFICATIONS AND NOTES	S0.0b	STRUCTURAL NOTES AND SPECIFICATIONS
A0.2	CONSTRUCTION MATERIALS AND SPECIFICATIONS	S0.1	BUILDING SECTIONS PLYWOOD FLOOR
A0.3	FINISH, DOOR & WINDOW SCHEDULES	S0.2	BUILDING SECTIONS CONCRETE FLOOR
A0.4	SIGNAGE SPECIFICATIONS AND ACCESSIBILITY	S0.3	TYPICAL STRUCTURAL DETAILS
A0.5	MULTIPLE FLOOR PLANS 60'x40' 120'x40'	S1.0	FLOOR FRAMING DETAILS-PLYWOOD & CONCRETE
A0.6	CAL GREEN REQUIREMENTS	S1.1	FLOOR FRAMING PLAN-PLYWOOD
A0.7	STC CONSTRUCTION DETAILS (INTERIOR WALLS)	S1.2	FLOOR FRAMING PLAN-CONCRETE
A0.8	DSA DOCUMENTS	S2.0	ROOF FRAMING DETAILS
A1.1	FLOOR PLAN 24'x40'	S2.1	ROOF TRUSS AND DETAILS
A1.2	FLOOR PLAN 36'x40'	S2.2	ROOF FRAMING PLAN-PLYWOOD SHEATHING
A1.3	FLOOR PLAN 48'x40'	S2.3	ROOF FRAMING PLAN-22 GA
A2.0	REFLECTED CEILING DETAILS	S3.0	WALL FRAMING DETAILS-WOOD STUD
A2.1	REFLECTED CEILING PLAN 24'x40'	S3.1	WALL FRAMING DETAILS-STEEL STUD
A2.2	REFLECTED CEILING PLAN 36'x40'	S3.2	WALL FRAMING ELEVATIONS
A2.3	REFLECTED CEILING PLAN 48'x40'	S4.0	ALLOWABLE BEAM AND HEADER PENETRATION
A3.1	ROOF DETAILS-22 GA METAL	M0.0	MECHANICAL SCHEDULES AND NOTES
A3.2	ROOF PLAN MONO & DUAL SLOPE-22 GA METAL	M0.1	MECHANICAL DETAILS
A3.3	ROOF DETAILS-26 GA METAL	M1.1	MECHANICAL PLAN WALL MOUNT 24'x40'
A3.4	ROOF PLAN MONO & DUAL SLOPE-26 GA METAL	M1.2	MECHANICAL PLAN WALL MOUNT 36'x40'
A3.5	ROOF DETAILS TPO	M1.3	MECHANICAL PLAN WALL MOUNT 48'x40'
A3.6	ROOF PLAN MONO & DUAL SLOPE TPO	M2.1	MECHANICAL ROOF PLAN 24'x40'
A3.7SR	SOLAR READY ROOF PLANS 24'x40', 36'x40' & 48'x40'	M2.2	MECHANICAL PLAN ROOF PLAN 24'x40'
A3.8SR	SOLAR READY ROOF PLANS 60'x40', 72'x40' & 84'x40'	M2.3	MECHANICAL PLAN ROOF MOUNT 36'x40'
A3.9SR	SOLAR READY ROOF PLANS 96'x40', 108'x40' & 120'x40'	M2.4	MECHANICAL PLAN ROOF PLAN 36'x40'
A4.1	INTERIOR ELEVATIONS 24'x40'	M2.5	MECHANICAL PLAN ROOF MOUNT 48'x40'
A4.2	INTERIOR ELEVATIONS 36'x40'	M2.6	MECHANICAL PLAN ROOF PLAN 48'x40'
A4.3	INTERIOR ELEVATIONS 48'x40'	M3.0	TITLE 24 REPORTS 1 OF 9
A5.1	EXTERIOR ELEVATIONS 24'x40' WOOD SIDING OPTION 'A' (RIGHT HAND)	M3.1	TITLE 24 REPORTS 2 OF 9
A5.2	EXTERIOR ELEVATIONS 24'x40' WOOD SIDING OPTION 'B' (LEFT HAND)	M3.2	TITLE 24 REPORTS 3 OF 9
A5.3	EXTERIOR ELEVATIONS 36'x40' WOOD SIDING	M3.3	TITLE 24 REPORTS 4 OF 9
A5.4	EXTERIOR ELEVATIONS 48'x40' WOOD SIDING	M3.4	TITLE 24 REPORTS 5 OF 9
A5.5	EXTERIOR ELEVATIONS 24'x40' STUCCO OPTION OPTION 'A' (RIGHT HAND)	M3.5	TITLE 24 REPORTS 6 OF 9
A5.6	EXTERIOR ELEVATIONS 24'x40' STUCCO OPTION OPTION 'B' (LEFT HAND)	M3.6	TITLE 24 REPORTS 7 OF 9
A5.7	EXTERIOR ELEVATIONS 36'x40' STUCCO OPTION	M3.7	TITLE 24 REPORTS 8 OF 9
A5.8	EXTERIOR ELEVATIONS 48'x40' STUCCO OPTION	M3.8	TITLE 24 REPORTS 9 OF 9
A6.0	ARCHITECTURAL DETAILS WOOD STUD OPTION	E0.0	ELECTRICAL DETAILS
A8.1	ARCHITECTURAL DETAILS	E1.0	ELECTRICAL PLAN 24'x40' (WALL MOUNTED HVAC)
A8.2	SHEET METAL AND FLASHING DETAILS	E1.0SR	ELECTRICAL PLAN 24'x40' (WALL MOUNTED HVAC) SOLAR READY
A8.3	ARCHITECTURAL DETAILS METAL STUD OPTION	E1.1	ELECTRICAL PLAN 24'x40' (ROOF MOUNTED HVAC)
A9.0	FIRE RATED ASSEMBLIES	E1.1SR	ELECTRICAL PLAN 24'x40' (ROOF MOUNTED HVAC) SOLAR READY
A9.1	FIRE RATED DETAILS	E2.0	ELECTRICAL PLAN 36'x40' (WALL MOUNTED HVAC)
A10.0	RESTROOM ACCESSORIES SCHEDULE & DETAILS	E2.0SR	ELECTRICAL PLAN 36'x40' (WALL MOUNTED HVAC) SOLAR READY
A10.1	RESTROOM ACCESSIBILITY DETAILS	E2.1	ELECTRICAL PLAN 36'x40' (ROOF MOUNTED HVAC)
A11.0	SOLATUBE OPTION AT TPO ROOF	E2.1SR	ELECTRICAL PLAN 36'x40' (ROOF MOUNTED HVAC) SOLAR READY
A12.0	24'x40' RESTROOM OPTION & ACCESSORY PLAN	E3.0	ELECTRICAL PLAN 48'x40' (WALL MOUNTED HVAC)
A12.1	36'x40' RESTROOM OPTION & ACCESSORY PLAN	E3.0SR	ELECTRICAL PLAN 48'x40' (WALL MOUNTED HVAC) SOLAR READY
A12.2	48'x40' RESTROOM OPTION & ACCESSORY PLAN	E3.1	ELECTRICAL PLAN 48'x40' (ROOF MOUNTED HVAC)
F0.0	FOUNDATION	E3.1SR	ELECTRICAL PLAN 48'x40' (ROOF MOUNTED HVAC) SOLAR READY
F1.0	GENERAL DETAILS	E4.0DL	DAYLIT ZONE FLOOR PLANS 24'-48'x40'
F1.1	WOOD PAD FOUNDATION PLAN-PLYWOOD FLOOR	E4.1DL	DAYLIT ZONE FLOOR PLANS 60'-120'x40'
F1.2	WOOD PAD FOUNDATION PLAN-CONCRETE FLOOR	E5.0	SOLATUBE WIRING AND DAYLIGHT HARVESTING
F2.0	ABOVE GRADE CONCRETE FOUNDATION DETAILS	P0.0	PLUMBING SCHEDULE AND DETAILS
F2.1	ABOVE GRADE CONCRETE FOUNDATION PLAN	P1.0	PLUMBING PLAN 24'x40'
F3.0	FLUSH TO GRADE CONCRETE FOUNDATION DETAILS	P2.0	PLUMBING PLAN 36'x40'
F3.1	FLUSH TO GRADE CONCRETE FOUNDATION PLAN	P3.0	PLUMBING PLAN 48'x40'
R0.0	RAMP, LANDING AND STAIR	R0.0	RAMP & LANDING DETAILS
R1.0	RAMP & LANDING PLAN (ATTACHED HANDRAIL)	R1.0	RAMP & LANDING PLAN (ATTACHED HANDRAIL)
R2.0	RAMP & LANDING PLAN (FREE STANDING HANDRAIL)	R2.0	RAMP & LANDING PLAN (FREE STANDING HANDRAIL)
R3.0	RAMP & LANDING PLAN (OFFSET RAMP)	R3.0	RAMP & LANDING PLAN (OFFSET RAMP)
R4.0	RAMP & LANDING PLAN (COMMON LANDING)	R4.0	RAMP & LANDING PLAN (COMMON LANDING)
R5.0	STAIR & LANDING PLAN & DETAILS	R5.0	STAIR & LANDING PLAN & DETAILS
TOTAL SHEET COUNT: 118			

DESIGN PARAMETERS
FLOOR LIVE LOAD: 50 PSF, <del>50+15 PSF, 100 PSF &amp; 125 PSF</del>
ROOF LIVE LOAD: 20 PSF GROUND SNOW LOAD MAXIMUM: 31 PSF FULLY EXPOSED, 28 PARTIALLY EXPOSED, 26 PSF SHELTERED
ROOF SNOW LOAD: 20 PSF MAX (ASCE 7-10 SEC 7.4) Ce=0.9 FULLY EXPOSED, 1.0 PARTIALLY EXPOSED, 1.1 SHELTERED I=1.0 Ct=1.0
RAMP LIVE LOAD: 100 PSF NOTE: THE MAX RAMP HANDRAIL DESIGN ON THIS PC IS 34" A.F.F. THE MAX DECK HEIGHT ON THIS PC IS 28".
FLOOD HAZARD AREA: NO
WIND DESIGN: (ASCE 7-10) Kzt=1.0 WIND SPEED=110 MPH EXPOSURE='C' DIRECTIONAL PROCEDURE COMPONENTS & CLADDING DESIGN BY PC ENGINEER OF RECORD
DESIGN ROOF DEAD LOAD: 15 PSF (BEAMS AND TRUSSES) INCLUDES 3.0 PSF FOR ROOF MOUNTED SOLAR PANELS
DESIGN FLOOR DEAD LOAD: PLYWOOD FLOOR - 8 PSF (+15 W/ PARTITIONS), <del>CONCRETE DECK - 31 PSF (+15 W/ PARTITIONS)</del>
EARTHQUAKE DESIGN DATA: 1. I=1.0, RISK CATEGORY=II 2. Ss=2.8571 MAPPED VALUE (BASED ON 0.7Xs PER CBC 1616A.1.1.2) 3. Si=1.389 MAX MAPPED VALUE 4. Site Class=D 5. Ss=1.333, S1=1.389 (Ss IS BASED ON CBC 1616A.1.1.2) 6. SEISMIC DESIGN CATEGORY=E 7. LIGHT MODULAR STEEL MOMENT FRAME PER CBC SECTION 2212A 8. DESIGN BASE SHEAR=8642# (FOR 24' X 40' BUILDING) 9. Cs=0.381 10. R=3.5 11. EQUIVALENT LATERAL FORCE PROCEDURE 11. NO VERTICAL OR HORIZONTAL IRREGULARITIES
CLIMATE ZONE: THIS PC IS APPROVED FOR THE 2016 CALIFORNIA ENERGY CODE IN ALL CALIFORNIA CLIMATE ZONES
GEHAZARD REPORTS: THE DESIGN ARCHITECT IN GENERAL RESPONSIBLE CHARGE MUST VERIFY THAT THE GEOHAZARD REPORT IDENTIFIES NO SITE RELATED GEOLOGIC HAZARDS WHICH WOULD PRECLUDE THE USE OF THE PROPOSED PC DESIGN AT THE SITE, INCLUDING BUT NOT LIMITED TO LIQUIFACTION POTENTIAL, LANDSLIDE, FLOODING, EARTHQUAKE FAULT, ETC.

BUILDING DATA
TYPE OF CONSTRUCTION: V-B BUILDING AREAS: <del>24'x40'=960 SF</del> 36'x40'=1,440 SF 48'x40'=2,400 SF 60'x40'=2,400 SF 72'x40'=2,880 SF 84'x40'=3,360 SF 96'x40'=3,840 SF 108'x40'=4,320 SF 120'x40'=4,800 SF
OCCUPANCY: E
NO. OF STORIES: 1
ALLOWABLE AREA: 9,500 SF
MODULES: 12'x40'

STRUCTURAL DATA
STRUCTURAL DESIGN: ORDINARY MOMENT FRAME WITH CLEAR SPAN TRUSS
FOUNDATION: WOOD PAD: 50, 50+15, 100 & 125 PSF <del>ABOVE GRADE CONCRETE: 50, 50+15, 100 &amp; 125 PSF</del> <del>FLUSH TO GRADE CONCRETE: 50, 50+15, 100 &amp; 125 PSF</del>
SEISMIC SEPARATION: 4 1/2" MIN FROM OTHER EXISTING OR FUTURE BUILDINGS MEASURED FROM ITS FARTHEST PROJECTION
THIS PC (OR BLDG) IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM
ALLOWABLE SOIL BEARING: WOOD FOUNDATION: SEE SHEET S0.0a <del>CONCRETE FOUNDATION: SEE SHEET S0.0a</del>
FIRE LIFE SAFETY
ALLOWABLE USES: THIS PC HAS BEEN ALTERED TO MEET OCCUPANCY A-3 PER IR A-26.cc AUTOMATIC FIRE SPRINKLER SYSTEM: NOT REQUIRED <input checked="" type="checkbox"/> / REQUIRED <input type="checkbox"/> (WHEN APPLICABLE) AUTOMATIC FIRE SPRINKLER SYSTEMS ARE PERMITTED TO BE HYDRAULICALLY CALCULATED, PER NFPA 13, TO MEET THE WATER SUPPLY AVAILABLE AT EACH SITE. PLANS FOR SUCH SYSTEMS MAY BE SUBMITTED AS A PLAN REVIEW SUBMITTAL, AND MAY NOT BE REVIEWED UTILIZING THE "OVER THE COUNTER" PROCESS. A COMPLETE AUTOMATIC FIRE SPRINKLER SYSTEM SUBMITTAL PACKAGE MUST BE PROVIDED AT THE TIME OF THE PLAN REVIEW SUBMITTAL.
THE ARCHITECT OF RECORD (DESIGNER) OR THE DIVISION OF THE STATE ARCHITECT WILL DETERMINE THE USE OF A FIRE SUPPRESSION SYSTEM UNLESS REQUIRED OTHERWISE BY THE TYPE OF CONSTRUCTION LISTED ON THE BUILDING DATA.
ALL GROUP 'E' OCCUPANCY BUILDING GREATER THAN 12,000 SF SHALL BE FIRE SPRINKLED PER SECTION 903.2.3.1
EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED UNLESS PROJECTIONS COMPLY WITH SECTION 705 AND 1406
MIN SETBACK FROM PROPERTY LINE = 10'-0". LESS THAN 10'-0" SEE TABLE 602
EXTERIOR WALL OPENINGS TO COMPLY WITH TABLE 705.8
IN ROOMS OR AREAS WITH SPECIAL HAZARDS SUCH AS LABORATORIES, VOCATIONAL SHOPS AND OTHER SUCH AREAS WHERE HAZARDOUS MATERIALS IN EXEMPT AMOUNTS ARE USED OR STORED SHALL BE FIRE SPRINKLED PER SECTION 903.2.3.3.
PERMANENT PORTABLE BUILDINGS: A PORTABLE BUILDING THAT IS USED TO SERVE OR HOUSE STUDENTS AND IS CERTIFIED, AS A PERMANENT PORTABLE BUILDING ON A NEW PUBLIC SCHOOL CAMPUS BY THE PUBLIC SCHOOL ADMINISTRATION SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 903.2.3

NOTES
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER), AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-333 AND 4-342, PART 1, TITLE 24, CCR. CLASS R.B.I.P. FOR IN-PLANT INSPECTIONS.
SITE SPECIFIC: COMPLY WITH CFC CHAPTERS 5 & 14, CBC CHAPTERS 3, 5, 7, 7A, 11B & 14
NOTE: "THIS PC IS NOT APPROVED FOR CHAPTER 7A WILDLAND URBAN AREAS"

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR:  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
Incorporated

**AURORA MODTECH**  
DESIGNS

**MODULAR STRUCTURES**  
INTERNATIONAL, INC.  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 665-5800  
FAX: (559) 665-5700  
WEBSITE: [WWW.GOV.NET](http://WWW.GOV.NET)

SOUTHERN CALIFORNIA DIVISON  
1650 CHICAGO AVE, SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3662  
WEBSITE: [WWW.GOV.NET](http://WWW.GOV.NET)

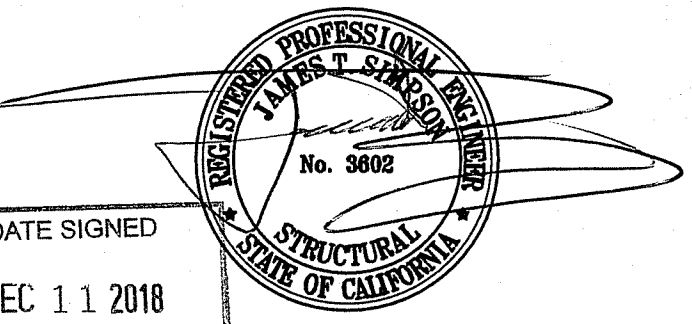
THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

**TITLE SHEET**

MFR. STRUCTURAL ENGINEER OF RECORD ON PC



DATE SIGNED  
DEC 11 2018

MFR-PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

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

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILED  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2018

REVISIONS

△	
△	
△	
△	
△	
△	
△	
△	

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER

# A0.0



GENERAL SPECIFICATIONS

- A. THE REQUIREMENTS OF THE GENERAL CONDITIONS APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH 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.
- C. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA BUILDING CODE LISTED ON SHEET A0.6. A COPY OF THESE REGULATIONS SHALL BE KEPT ON THE JOB SITE AT ALL TIMES. ALSO REFER TO THE DIVISION OF THE STATE ARCHITECT – STRUCTURAL SAFETY SECTION "INTERPRETATIONS OF REGULATIONS". SEE ESPECIALLY IR 16–1.16. THESE STRUCTURES ARE DESIGNED PER THE MODIFIED REQUIREMENTS TEMPORARY FOUNDATIONS (UNO). CHANGES IN PLANS AND SPECIFICATIONS SHALL BE MADE BY THE ADDENDUM OR CONSTRUCTION CHANGES PER T24. SIGNED BY THE ARCHITECT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE ANY RELATED WORK CAN BEGIN. CONSTRUCTION CHANGES PER T24 SHALL ALSO BE SIGNED BY THE OWNER PRIOR TO APPROVAL BY DSA.
- E. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS REQUIRES A CCD.

1. MATERIALS AND WORKMANSHIP:

- A. ALL WORK 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.
- B. WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. THE CONTRACTOR 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.
- D. TESTING: TESTS OF MATERIALS SHALL BE BY A PERSON OR TESTING LABORATORY SELECTED BY THE OWNER WITH THE APPROVAL OF DSA AND ARCHITECT. THE OWNER SHALL BE RESPONSIBLE FOR THE COST OF ALL REQUIRED TESTING AND INSPECTIONS, EXCEPT FOR THE RETESTING REQUIRED BY THE FAILURE OF ANY MATERIAL TO PASS. ERECTION AT THE SITE: THE BUILDING SHALL BE TRANSPORTED, ERECTED AND SET ON FOUNDATION AS REQUIRED BY A LICENSED TRANSPORT. ALL REQUIRED FINISH WORK SHALL BE COMPLETED BY SKILLED LABOR OF THE MANUFACTURER/CONTRACTOR, BUT WILL NOT INCLUDE UTILITIES SERVICE CONNECTION.
- F. SITE WORK: THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF THE BUILDING. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS, ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT. THE OWNER, UNLESS OTHERWISE SHOWN ON THE APPROVED PLANS, WILL PROVIDE SITE(S) SATISFACTORY TO THE ARCHITECT OR ENGINEER FOR THE INSTALLATION OF THE RELOCATABLE BUILDING(S) THAT ARE LEVEL AND HAVE STABLE SOIL CONDITIONS WITH ADEQUATE SITE DRAINAGE, EXCEPT IF DESIGNATED IN THE CONTRACT DOCUMENTS AS THE RESPONSIBILITY OF THE MANUFACTURER/CONTRACTOR. IF ADDITIONAL GRADING AND/OR LEVELING IS NECESSARY FOR PROPER INSTALLATION OF MODULAR UNITS, THE ADDITIONAL CHARGE WILL BE THE RESPONSIBILITY OF THE OWNER.
- G. UTILITIES: THE OWNER WILL BE RESPONSIBLE FOR ANY AND ALL UTILITY, FIRE ALARM OR SPECIAL ELECTRICAL SIGNAL SYSTEM CONNECTIONS EXCEPT IF DESIGNATED IN THE CONTRACT DOCUMENTS AS THE RESPONSIBILITY OF THE MANUFACTURER/CONTRACTOR.

2. SCOPE OF WORK:

- A. THE WORK CONSISTS OF MANUFACTURING OFF–SITE IN A PLANT, AND INSTALLING ON–SITE, MODULAR RELOCATABLE BUILDING AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.
- B. 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.
- C. THE CONDITION OF THE SITE SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH APPLICABLE SAFETY REGULATIONS
- ASSEMBLY
- A. IN A LOCATION AS DETERMINED BY THE SCHOOL DISTRICT, THE CONTRACTOR SHALL PLACE CONCRETE 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.
- C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTIONS ON THE DRAWINGS. FLASHING, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

INSPECTION

- ALL REQUIREMENTS OF TITLE 19 AND 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:
- A. GENERAL RESPONSIBLE IN CHARGE OF FIELD ADMINISTRATION IS BY THE ARCHITECT OF RECORD.
- B. INSPECTION OF IN-PLANT WORK DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT'S ARCHITECT OR OWNER. THE INSPECTOR SHALL BE RESPONSIBLE TO INSPECT THE GENERAL CONSTRUCTION, WELDING, MECHANICAL AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BY THE SCHOOL DISTRICT OR OWNER.
- C. ON SITE INSPECTION OF THE BUILDING SHALL BE PERFORMED BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT OR OWNER.
- D. OTHER SPECIAL TESTS OR INSPECTIONS, SUCH AS CONCRETE AND CONCRETE REINFORCEMENT PLACEMENT, MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.

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 COMPONENTS ONLY, PROGRAM BELL, CLOCK, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

GENERAL DESIGN REQUIREMENTS:

THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE OWNER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.

REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND OTHER INFORMATION NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.

DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND ARE PROVIDED AS AN AID IN INTERPRETING THE DRAWINGS ONLY. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN THE EVENT OF CONFLICT, DIMENSIONS AND ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS SHALL GOVERN. DRAWING SCALES GIVEN ARE APPROXIMATE – DO NOT SCALE PLANS OR DETAILS.

WHERE THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE SPECIFICATIONS, THESE GENERAL NOTES AND TYPICAL DETAILS SHALL GOVERN.

TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO DETAILS FOR SIMILAR CONSTRUCTION SHOWN ON THESE DRAWINGS.

NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE OR SHOWN ON THESE DRAWINGS.

EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH (2) METAL IDENTIFICATION TAGS 3"x1 1/2" MINIMUM SIZE, MECHANICALLY FASTEN ONE TAG VISIBLE FROM THE EXTERIOR AND THE OTHER TO THE INTERIOR FRAME ABOVE THE CEILING AT THE END OF THE MODULE. THE TAG SHALL HAVE THE FOLLOWING INFORMATION:

- A. DSA APPLICATION NUMBER  
B. BASIC WIND SPEED, EXPOSURE.  
C. DESIGN ROOF LIVE LOAD  
D. DESIGN FLOOR LIVE LOAD  
E. BUILDER'S NAME  
F. PLANT INSPECTOR/ID MARK  
G. SERIAL NUMBER

STRUCTURAL FRAME – EACH MODULE SHALL BE DESIGNED AS A MOMENT FRAME STRUCTURE TO WITHSTAND VERTICAL AND HORIZONTAL LOADS AND COMPLY WITH REQUIREMENTS OF THE DIVISION OF THE STATE ARCHITECT. THE NECESSARY PROVISIONS ARE INCORPORATED IN THE STRUCTURE TO PERMIT THE RELOCATION OF THE STRUCTURAL FRAME IN SECTIONS NOT EXCEEDING 12 FEET IN WIDTH.

EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION 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.

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 AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE, SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

PROVIDE OPENINGS, CURBS, FRAMING AND/OR SUPPORTS FOR ITEMS INDICATED ON ARCHITECTURAL, MECHANICAL, ELECTRICAL OR OTHER DRAWINGS INCLUDED IN CONSTRUCTION DOCUMENTS.

FRAMING – ROOF, WALLS AND FLOOR: FRAMING MEMBERS SHALL BE OF THE GRADE AND SIZE CALLED FOR ON THE STRUCTURAL PLANS.

ROOF OVERHANG – ALL OVERHANGS SHALL PRESENT A PLEASING AND FINISHED APPEARANCE. SOFFIT MATERIAL, WHEN USED, SHALL BE 3/8" MIN EXTERIOR SIDING. PLYWOOD SOFFIT MATERIAL SHALL BE APPLIED WITH EXPOSED GRAIN RUNNING PARALLEL TO THE LENGTH OF THE BUILDING. SOFFIT SHALL BE NEATLY AND CLOSELY FITTED AND TRIMMED TO COVER GAPS. ALL ENCLOSED SOFFIT AREAS SHALL BE VENTILATED PER THE CBC

FLOOR – THE FLOOR SHALL BE STEEL FRAMED WITH A DESIGN LIVE LOAD OF 50 LBS PER SQUARE FOOT UNLESS OTHERWISE NOTED ON THE DRAWINGS. THIS DOES NOT APPLY TO A SLAB ON GRADE CONDITION.

FIRE EXTINGUISHER – UL 2A:10BC, PRESSURE TYPE, +48" TO EXTINGUISHER HANDLE. +48" TO FIRE EXTINGUISHER HANDLE WHEN PROVIDED.

BUILDING INSULATION – SHALL COMPLY WITH CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL. FLAME SPREAD – MAX 25, SMOKE DEVELOP – MAX 450

BUILDING VENTILATION – PER SECTION 1203.4.1. OPENINGS FOR UNDER–FLOOR VENTILATION SHALL NOT BE LESS THAN 1 1/2 SQUARE FEET (0.133 m²) FOR EACH 150 SF OF CRAWL SPACE. THEY SHALL BE COVERED WITH CORROSION-RESISTANT WIRE MESH WITH MESH OPENINGS NOT LESS THAN 1/4 INCH (6.4 mm) NOR MORE THAN 1/2 INCH IN ANY DIRECTION.

WHEN MODULE IS RELOCATED – DO NOT REINSTALL NAILS OR SCREWS IN EXISTING HOLES.

ELECTRICAL

1. SCOPE OF WORK:

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.

2. MATERIALS:

- ALL NEW COMPLYING WITH REQUIREMENTS OF CBC AND NFPA
- A. ELECTRIC METALLIC TUBING: COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARIZED.
- B. PANEL BOARDS: FLUSH MOUNTED WITH HINGED DOORS AND INDEXED CARD HOLDERS.
- C. CONDUCTORS: COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE– #12.
- D. RECEPTACLE: GENERAL ELECTRIC 5242–2 OR EQUAL, +15" AFF MIN TO BTM OF BOX.
- E. CLOCK RECEPTACLE: EAGLE OR EQUAL.
- F. SWITCHES: GENERAL ELECTRIC 5901–2 OR EQUAL, +48" AFF MAX TO TOP OF BOX.
- G. 2'x4' LED DROP IN LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DBL BALLAST, MAGNETIC ENERGY EFFICIENT 55 WATTS. WEIGHT 27 LBS (UNO)
- H. ALL ELECTRICAL WIRING 110V AND GREATER SHALL BE IN CONDUIT SYSTEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF CEC MINIMUM SIZE CONDUIT IS 1/2" MIN
- I. ACCEPTABLE CONDUIT: RIGID ELECTRICAL METALLIC TUBING (EMT); GALVANIZED THIN WALL FLEXIBLE (INTERIOR); GALVANIZED STEEL FLEXIBLE (EXTERIOR); GALVANIZED STEEL WITH FACTORY APPLIED PVC ALL CONDUITS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND SHALL BE SECURED IN CONFORMANCE WITH CEC FIELD BENDS SHALL BE AVOIDED WHEREVER POSSIBLE. WHERE BENDS MUST BE MADE, USE AN APPROPRIATE "HICKY" OR BENDING MACHINE. REAM AND DEBUR ALL CONDUIT PRIOR TO INSTALLATION AND TERMINATE IN APPROPRIATE BUSHINGS OR CONNECTORS, JACKET. WIRING SHALL BE #14 MIN COPPER TYPE TW, THW, THWN AS APPLICABLE. CONDUIT FILL SHALL NOT EXCEED REQUIREMENTS OF CEC A SEPARATE GROUNDING CONDUCTOR SHALL BE RULLED THROUGHOUT THE ENTIRE SYSTEM. CARE SHALL BE TAKEN TO AVOID DAMAGE TO WIRE OR INSULATION DURING PULLING. POWDERED SOAPSTONE OR A PULLING COMPOUND SUCH AS "YELLOW 77" LUBRICANT MAY BE USED IF NECESSARY.

3. WORKMANSHIP

MATERIAL AND EQUIPMENT INSTALLED IN A SECURE, NEAT, WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS, PANEL BOARD CARDS FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION.

GROUNDING OF BUILDING COMPONENTS

1. THE OWNER, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS, SHALL BE THE RESPONSIBLE FOR PROVIDING THE NECESSARY GROUNDING OF THE BUILDING ELECTRICAL SYSTEM PER CEC TABLE 250 AND DSA IR E–1.
2. THE PROJECT INSPECTOR SHALL WITNESS AND VERIFY THE GROUNDING TESTS.

PAINTING

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDINGS. ALL EXPOSED SURFACES OF BUILDING AND RAMP SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS, CFC CHAPTER 15, REFERENCE SHEET A0.6 FOR VOC LIMITS

2. MATERIALS

- A. EXTERIOR WOOD– VISTA BRAND 4100 PRIMER, 6000 FINISH (OR EQUAL)
- B. INTERIOR TRIM– VISTA BRAND 7000 FINISH (OR EQUAL)
- C. METAL– VISTA BRAND 7000 FINISH (OR EQUAL)

3. WORKMANSHIP

- A. EXTERIOR– WOOD SIDING, TRIM AND SKIRTING– APPLY TWO COATS OF EXTERIOR FLAT ACRYLIC PAINT SPRAYED ON.
- B. INTERIOR TRIM– TRIM NOT PRE COATED SHALL BE PAINTED WITH TWO COATS OF SEMI GLOSS LATEX OVER PRIMER.
- C. METAL– ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER SHOP COAT.
- D. RAMP– ONE COAT OF NONSKID SURFACING.

MECHANICAL SECTION

1. SCOPE OF WORK:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITION SYSTEM AS SHOWN ON THE DRAWINGS 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. WORKMANSHIP:

UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

3. EQUIPMENT: SEE A/C INFORMATION SCHEDULE FOR SIZE AND TYPE

- A. FACTORY MADE AIR DUCTS: FACTORY MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF CMC. 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 CMC AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING.
- B. INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDINGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE. INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED, SECTION 720, 2016 CBC
- C. MATERIAL EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT RATING OF NOT MORE THAN 50.
- D. AIR FILTERS: AIR FILTERS SHALL COMPLY WITH THE STANDARD FILTER UNITS & TEST PERFORMANCE THAT IS REFERENCED IN CHAPTER 17, AS CLASS I OR II, CMC
- E. PIPE AND TUBING: INSULATION AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME SPREAD–RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH CBC SECTION 720.7

CARPENTRY

1. SCOPE OF WORK:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY

2. MATERIALS

- LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULES NO. 17" OF WEST COAST LUMBER INSPECTION BUREAU OR "WESTERN LUMBERING FOR GRADING RULES 2015 EDITION" OF WESTERN WOOD PRODUCTS ASSOCIATION. PLYWOOD GRADE MARKED IN ACCORDANCE WITH "PRODUCT STANDARD PS 1–09 FOR STRUCTURAL PLYWOOD" OF AMERICAN PLYWOOD ASSOCIATION, COMPLYING WITH CURRENT CBC REFERENCE STANDARDS
- A. HEADERS: HEM FIR STUD GRADE OR BETTER
- B. PLATES: HEM FIR STUD GRADE OR BETTER
- C. BLOCKING: HEM FIR STUD GRADE OR BETTER
- D. TREATED LUMBER: SILLS AND LUMBER IN CONTACT WITH CONCRETE, MASONRY, ASPHALT OR EARTH–HEMLOCK FIR PRESSURE TREATED WITH PRESERVATIVE AS SPECIFIED IN 2303.1.9 OF CBC AWPA STANDARD U1 AND M4; 2X GRADE MEMBERS CUT ENDS DIPPED IN PRESERVATIVE (CUPONAL).
- E. PLYWOOD ROOF DECKING: APA C–D GRADE, GROUP 1, EXPOSURE 1 WITH EXTERIOR GLUE. ON OVERHANGS, C–C PLUGGED AND TOUCH SANDED
- F. PLYWOOD FLOOR DECKING: APA STURD–I–FLOOR 48" OC 1–1/8" TONGUE AND GROOVE FLOOR SHEATHING.
- G. EXTERIOR SIDING/SHEATHING: APA TYPE 303, EXTERIOR, MDO 8" OC, SIDING. SHEATHING 1/2" CDX.
- H. STUDS AND POSTS: HEM FIR STUD GRADE
- I. FASTENERS: ALL NAILS SHALL BE CORROSION RESISTANT PER CBC SECTION 2304.10.1.1 & 2304.10.5
- J. BUILDING TRIM: 1x RESAWN SELECT HF OR MASONITE
- K. DOOR/WINDOW TRIM: 1x4 RESAWN HF

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 CBC TABLE 2304.10.1.1. NAILS SHALL BE CORROSION RESISTANT BOX NAILS PER 2304.10.1.1 AND 2304.10.5.
- C. PERIMETER WALLS: FACTORY FABRICATED, CAULKING PROVIDED BETWEEN PERIMETER OF WALLS AND STRUCTURAL MEMBERS PROVIDING WEATHERPROOF AND WATERTIGHT SEAL. NECESSARY CLOSURES, SEALS, FLASHING PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS
- D. MACHINE APPLIED NAILING: SHALL HAVE PRIOR DEMONSTRATION AND APPROVAL BY DSA FIELD INSPECTOR AND THE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUES SATISFACTORY PERFORMANCE. PLYWOOD SHALL HAVE A MINIMUM THICKNESS OF 3/8". IF NAIL HEADS 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
- E. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING
- F. RETIGHTEN ALL BOLTS BEFORE CLOSING IN
- G. THE DESIGN MOISTURE CONTENT OF LUMBER IS 19% OR LESS. BEFORE FABRICATION, OTHER REVISION THRU CHANGE ORDER WILL BE REQUIRED

SEALANT & WEATHER RESISTANT

1. SCOPE OF WORK:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO SEAL THE BUILDINGS.

2. MATERIALS:

- A. "VULKEM" SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL OR APPROVED EQUAL, TO BE USED AT ALL STANDING SEAM ROOFING DETAILS.
- SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT, IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS, REFER TO SHEET A0.6 FOR VOC LIMITS

MOISTURE BARRIER:

ALL WEATHER–EXPOSED SURFACES SHALL HAVE A WEATHER–RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING. SUCH BARRIER SHALL BE EQUAL TO THAT PROVIDED FOR IN THE CBC 1404.2 & 2510.6. BARRIER SHALL BE FREE FROM HOLES AND BREAKS OTHER THAN THOSE CREATED BY FASTENERS AND CONSTRUCTION SYSTEM DUE TO ATTACHING OF THE BUILDING PAPER.

ZBAR:

ALL HORIZONTAL JOINTS IN SIDING SHALL BE PROTECTED BY GALVANIZED "Z BAR– 3/4 x 5/8 x 3/4" FLASHING. FLASHING NEED NOT BE USED WHERE SKIRTING MEETS THE UNDERSIDE OF AN EXPOSED LUMBER FRAME AND THE SKIRTING IS RECESSED SUFFICIENTLY TO PROTECT THE TOP EDGE OF PLYWOOD. APPLY SEALANT TO SEAM FOR WEATHER–RESISTANCE.

SHEET METAL

1. SCOPE OF WORK:

CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR 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 A123. MINIMUM 26 GA
- B. SOLDER– OF STANDARD BRAND, GRADE A OF EQUAL PARTS LEAD AND TIN ASTM
- C. FLUX– ZINC SATURATED MURATIC ACID.

3. WORKMANSHIP:

SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN CLOSEST LENGTH 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.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
Incorporated

**AURORA ModTECH**  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 866–5800  
FAX: (559) 866–5700  
WEBSITE: WWW.GDMV.NET

SOUTHERN CALIFORNIA DIVISION  
SUITE 100, 1000 W. SUITE 100  
RIVERSIDE, CA 92507  
PHONE: (951) 886–3633  
FAX: (951) 886–3682  
WEBSITE: WWW.GDMV.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

SPECIFICATIONS  
AND NOTES

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 1 1 2018

PROFESSIONAL SEAL  
No. 3602  
STRUCTURAL  
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # 02-116677  
AG ☒ FLS ☒ SS ☒  
DATE: DEC 1 4 2018

REVISIONS

△ -  
△ -  
△ -  
△ -  
△ -  
△ -  
△ -

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00

SHEET NUMBER

A0.1



ROOFING:

FIRESTONE ULTRAPLY TPO:

PER CBC SECTION 1505 CLASS 'A' BASE SHEET FINISHED GRADE.  
FIRESTONE ULTRAPLY TPO MEMBRANE ROOFING SYSTEM (THERMOPLASTIC POLYETHYLENE BASED MEMBRANE) ADHESIVELY OR MECHANICALLY ATTACHED OVER INSULATED, COMBUSTIBLE OR NON-COMBUSTIBLE DECKS. CLASS 'A'. THE TPO MEMBRANES ARE PRODUCED WITH A POLYESTER WEFT INSERTED REINFORCEMENT. SYNTHETIC RUBBER SINGLE-PLY SHEETS HAVING A MIN NOMINAL THICKNESS OF 45 MILS (1.1 MM). INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS.

STEVENS EP TPO:

PER CBC SECTION 1505 CLASS 'A' BASE SHEET FINISHED GRADE. STEVENS EP TPO MEMBRANE ROOFING SYSTEM (SCRM REINFORCED ETHYLENE-PROPYLENE BASED MEMBRANE) ADHESIVELY OR MECHANICALLY ATTACHED OVER INSULATED, COMBUSTIBLE OR NON-COMBUSTIBLE DECKS. CLASS 'A'. THE TPO MEMBRANES ARE SCRM REINFORCED WITH SYNTHETIC RUBBER SINGLE-PLY SHEETS HAVING A MIN NOMINAL THICKNESS OF 45 MILS (1.1 MM). INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS.

1/4" DENS-DECK ROOF BOARD:

USED AS A UNDERLAYMENT FOR THE TPO MEMBRANE ROOFING SYSTEM. FLAME SPREAD: 0, SMOKE DEVELOPED: 0 PER ASTM E-84. INSTALL PER ROOFING MANUFACTURER INSTALLATION INSTRUCTIONS.

22 & 26 GAUGE METAL ROOFING:

UNPUNCTURED INTERLOCKING ROOF PANELS MECHANICALLY CRIMPED AT TOP TO INSURE AGAINST WATER INFILTRATION. STANDING SEAM OR RIBBED TYPE. THE ROOFING SYSTEM SHALL BE FIRE RETARDANT PER CBC STANDARDS. TEST RESULTS TO SUPPORT CLASS 'A' RATING, SHOWING THE ROOF SYSTEM WILL WITHSTAND THE UPLIFT OF A 110 MPH WIND.

EXTERIOR:

PLYWOOD SIDING:

DURATAMP GROOVED 8" OC APA PRODUCT REPORT #PR-C302 OR LP SMARTSIDE PRECISION PANE; SIDING GROOVED 8" OC ICC REPORT #ESR-1301

PAPER (WATER-RESISTIVE BARRIER) PER SECTION 1404.2 & 2510.6: A MINIMUM OF TWO LAYER OF NO.15 ASPHALT FELT, COMPLYING WITH ASTM D 226 FOR TYPE 1 FELT OR OTHER APPROVED MATERIAL, SHALL BE ATTACHED TO STUDS OR SHEATHING, WITH FLASHING AS DESCRIBED IN SECTION 1405.3, IN SUCH A MANNER AS TO PROVIDE A CONTINUOUS WATER-RESISTIVE BARRIER BEHIND THE EXTERIOR WALL VENEER.

LATH/FURRING AND PLASTER (STUCCO):

CBC SECTION 2507 & 2510:

PAPER (WATER-RESISTIVE BARRIER) PER SECTION 1404.2 & 2510.6: A MINIMUM OF TWO LAYER OF NO.15 ASPHALT FELT, COMPLYING WITH ASTM D 226 FOR TYPE 1 FELT OR OTHER APPROVED MATERIAL, SHALL BE ATTACHED TO STUDS OR SHEATHING, WITH FLASHING AS DESCRIBED IN SECTION 1405.3, IN SUCH A MANNER AS TO PROVIDE A CONTINUOUS WATER-RESISTIVE BARRIER BEHIND THE EXTERIOR WALL VENEER.

SELF-FURRING LATH (VERTICAL APPLICATION): USE SELF-FURRING LATH CONFORMING TO 1/4" OFFSET REQUIREMENTS OF ASTM C 933 SECTION 5.12. INSTALL SELF-FURRING LATH PER DSA IR 25-4 AND ASTM C 1083.

RIB LATH (HORIZONTAL APPLICATION): USE 3/8" RIB LATH PER ASTM C 847. PROVIDE MIN. 1/2" SIDE LAP WITH WIRE TIES AT 6" O.C. PROVIDE 1" END LAPS OVER SUPPORTS WITH MAJOR RIBS NESTED.

CEMENT: INSTALL AND COMPLY WITH SECTIONS 2510, 2512, AND ASTM C 926.

WINDOWS:

HORIZONTAL SIDING, 50% VENTING, ANODIZED ALUMINUM FRAME. PERFORMANCE RATED PER AAMA GS101-88 FOR COMMERCIAL USE AND MEDIUM EXPOSURE, NAIL-ON FIN FASTENED DIRECTLY TO FRAMING AND BEHIND SIDING MATERIAL, REMOVABLE SCREEN AT VENT SASHES. LAMINATED OR TEMPERED GLAZING TO BE NOTED ON FLOOR PLAN. DUAL GLAZED WINDOWS TO HAVE MINIMUM 1/4" AIR SPACE AND 1/8" GLASS (SEE WINDOW SCHEDULE FOR SIZES)

INTERIOR:

INTERIOR WALL COVERINGS:

APPLIED OVER MINIMUM 1/2" GYPSUM BOARD, OR MINIMUM 3/8" ORIENTED STRAND BOARD. EXPOSED SURFACES FIRE RATED PER ASTM E-84, FLAME SPREAD MAXIMUM 200, SMOKE DEVELOPED MAXIMUM 450. (PROVIDE FIRE BLOCKING WHEN 3/8" OSB IS USED AS BACKING MATERIAL)

VINYL TACKBOARD:

VINYL WALL COVERING TO BE CLASS III DOMSTAR GYPSUM OR EQUAL, LAMINATED ONTO 1/2" INDUSTRIAL INSULATION BOARD, 4"-0"x8"-0", LONG EDGES BEVELED. FLAME SPREAD = 65 SMOKE DENSITY = 175

FRP:

FIBERGLASS REINFORCED PLASTIC PANELS, 4"-0"x8"-0", WITH COLOR MATCHED PVC MOLDINGS OVER 1/2" GYPSUM. FLAME SPREAD = 25 AND SMOKE DEVELOPMENT = 450, CLASS A PER ASTM E-84

MARKER BOARDS:

1/2" PARTICLE BOARD SUBSTRATE, FULL WIDTH MAP RAIL W/ CORK INSERT AND SIX MAP HOOKS, EXTRUDED ALUMINUM MOLDING WITH FLAG HOLDER. CHALK TRAY MAY NOT PROJECT MORE THAN 4".

CEILING:

SUSPENDED T-BAR SYSTEM:

PERFORMANCE RATED ASTM C-635 HEAVY DUTY FLAME SPREAD MAX 0-25, SMOKE DEVELOP MAX 450.

ACOUSTIC LAY-IN CEILING PANELS:

LIGHT REFLECTIVE LR-1, FIRE RATED CLASS-A PER ASTM E-84. VINYL FACED FIBERGLASS, 5/8" THICK, ARMSTRONG OR EQUIV. CLASS A: FLAME SPREAD 25 (UL LABELED) PER ASTM E-1284. SMOKE DEVELOP MAX 450

FLOORING:

CARPET:

PROVIDE GLUE-DOWN OR FIRM CUSHION, PAD OR BACKING OR NO CUSHION PAD; AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL-CUT PILE OR LEVEL-CUT/UNROLLED PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2" PER SECTIONS 11B-302.2 AND 1119A.2. EXPOSED EDGES OR CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH SECTIONS 11B-303 AND 1121A.1 MINIMUM CRITICAL RADIANT FLUX SHALL NOT EXCEED 0.45 WATTS PER SQUARE CENTIMETER.

SEE CARPET CONT ON THIS SHEET FOR CALGREEN REQUIREMENTS

VINYL SHEET FLOORING:

MINIMUM WEAR LAYER .050" THICK. PERFORMANCE RATED PER ASTM F1303-90 TYPE-II, GRADE-1, CLASS-A, AND ASTM F970 125 PSI, FIRE RATED PER ASTM E648 FLAMMABILITY CLASS-1, AND ASTM E662 SMOKE DENSITY MAX 450. MIN COEFFICIENT OF FRICTION TO BE 0.6 PER ASTM D-2047 & CBC SECTION 11B-302

VINYL COMPOSITION TILE:

12" SQUARE, MINIMUM 1/8" THICK. PERFORMANCE RATED PER ASTM F1066, COMP-1, CLASS-2, AND ASTM F970 75 PSI, FIRE RATED PER ASTM E648 FLAMMABILITY CLASS-1, AND ASTM E662 SMOKE DENSITY MAX 450. MIN COEFFICIENT OF FRICTION TO BE 0.6 PER ASTM D2047

TOP SET BASE:

BURKE MOLDED RUBBER 1/8" THICK, 4" HEIGHT, COVE STYLE #502-P, OR EQ

CERAMIC TILE FLOORING:

CERAMIC TILE FLOORING SHALL HAVE A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM C-1028.

QUARRY TILE FLOORING:

QUARRY TILE FLOORING SHALL HAVE A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM C-1028.

RESILIENT FLOORING:

RESILIENT FLOORING DEMONSTRATING A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM D2047 WILL BE ACCEPTED AS MEETING THE INTENT OF SLIP RESISTANCE. CBC 1248.1/ADA STANDARDS 4.5.1, AT LEAST 80% OF THE FLOOR AREA RECEIVING RESILIENT FLOORING AND SHOWN THAT AT LEAST ONE OF THE FOUR TESTING OR PRODUCTS MEET THE REQUIREMENTS SHOWN ON SECTION 5.504.4.8

DOORS:

FINISH HARDWARE:

HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOOKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES AND 44 INCHES ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.

HARDWARE:

MOUNTING HEIGHT OF LATCHING HARDWARE SHALL BE 34" TO 44" AFF PER CBC SECTION 11B-404.2.7. PRESSURE TO OPERATE THE DOOR SHALL NOT EXCEED: 5 LBS (22.2 N) FOR EXTERIOR DOORS, 5 LBS (22.2 N) FOR INTERIOR DOORS & WHEN FIRE DOORS ARE REQUIRED 5 LBS (22.2 N) MAX OR THE MAXIMUM ALLOWABLE TO OPERATE THE DOOR MAY BE INCREASED TO THE MAXIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS (66.72 N). 11B-404.2.7. ALL HARDWARE SHALL MEET THE REQUIREMENTS OF CBC SECTIONS 1008.1.9.2 & 11B-404.2.7

CLOSER:

DOOR CLOSER, WHEN PROVIDED, THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED TO SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LANDING SIDE OF THE DOOR. REFER TO SECTION 11B-404.2.8, 11B-404.2.8.1, 11B-404.2.8.2 & 11B-404.2.9

THRESHOLD:

THRESHOLD SHALL COMPLY WITH CBC SECTIONS 11B-404.2.5, 1126A.2.1 AND 1010.1.7

FLOOR STOPS:

FLOOR STOPS SHALL NOT BE LOCATED IN THE PATH OF TRAVEL AND 4" MAXIMUM FROM WALLS. POLICY 99-08.

EXIT DEVICES:

PANIC HARDWARE SHALL COMPLY WITH CBC STANDARDS AND SHALL BE MOUNTED 36" TO 44" ABOVE FINISHED FLOOR SURFACE. THE UNLATCHING FORCE SHALL NOT EXCEED 5# APPLIED IN THE DIRECTION OF TRAVEL. PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1010.1.10 PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER, CBC 1010.1.10

HOLLOW METAL DOORS AND FRAMES:

DOORS-TYPE 1 FULL FLUSH INSULATED, MANUFACTURED BY 'STEELCRAFT' OR APPROVED EQUAL (UNO)  
FRAMES-16 GA COLD ROLLED 2" FACES (UNO)  
SEE SHEET A0.3 FOR DOOR AND FRAME INFORMATION. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS & SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES (UNO)

GENERAL FINISHES:

FINISHES:

ALL FINISHES SHALL COMPLY WITH CBC CHAPTERS 7 & 8, CFC AND TITLE 19 COR.

FIRE PROTECTION:

FIRE EXTINGUISHER CABINETS:

FIRE EXTINGUISHER CABINETS MUST COMPLY WITH CBC SECTIONS 906 AND 3309

CASEWORK:

HANDLES:

PROVIDE U SHAPED WIRE PULLS OR EQUALLY ACCESSIBLE PULL HARDWARE AT ALL ACCESSIBLE CASEWORK PER 11B-404.2.7

CARPET CONT:

5.504.4.4 CARPET SYSTEMS. ALL CARPET INSTALLED IN THE BUILDING SHALL MEET AT LEAST ON OF THE FOLLOWING TESTING AND PRODUCT REQUIREMENTS:

- CARPET AND RUG INSTITUTE GREEN LABEL PLUS PROGRAM;
- COMPLIANT WITH THE VOC-EMISSION LIMITS AND TESTING REQUIREMENTS SPECIFIED IN THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH SAFETY STANDARD METHOD FOR THE TEST AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSION FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS CDPH STANDARD METHOD V1.1 OR SPECIFICATION 01350);
- NSF/ANSI 140 AT THE GOLD LEVEL OR HIGHER;
- SCIENTIFIC CERTIFICATIONS SYSTEMS SUSTAINABLE CHOICE OR;
- COMPLIANT WITH THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS CALIFORNIA (CA-CHPS) CRITERIA INTERPRETATION FOR EO 7.0 AND EO 7.1 (FORMERLY ED 2.2) DATED JULY 2012 AND LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE

OPTION LIST - KEYNOTES

GENERAL	<input checked="" type="checkbox"/> ALL CASES	A0.0, A0.1, A0.2, A0.3, A0.4, A0.6 & A0.8
FLOOR PLANS OPTIONS LARGER THAN 48'X40'	<input type="checkbox"/> MULTIPLE FLOOR PLANS 60'X40' - 120'X40 <input type="checkbox"/> DAY/LT ZONE FLOOR PLANS 60'-120'X40'	A0.5 E4.1DL
INTERIOR WALL OPTION	<input type="checkbox"/> STC CONSTRUCTION DETAILS (INTERIOR WALLS)	A0.7
FLOOR PLANS	<input type="checkbox"/> FLOOR PLAN 24'X40' <input checked="" type="checkbox"/> FLOOR PLAN 36'X40' <input type="checkbox"/> FLOOR PLAN 48'X40'	A1.1 A1.2 A1.3
REFLECTED CEILING PLANS	<input checked="" type="checkbox"/> REFLECTED CEILING DETAILS - ALL CASES <input type="checkbox"/> REFLECTED CEILING PLAN 24'X40' <input checked="" type="checkbox"/> REFLECTED CEILING PLAN 36'X40' <input type="checkbox"/> REFLECTED CEILING PLAN 48'X40'	A2.0 A2.1 A2.2 A2.3
ROOF PLANS - 22 GA	<input type="checkbox"/> ROOF DETAILS - 22 GA METAL <input type="checkbox"/> ROOF PLAN MONO & DUAL SLOPE-22 GA METAL	A3.1 A3.2
ROOF PLANS - 26 GA	<input checked="" type="checkbox"/> ROOF DETAILS - 26 GA METAL <input checked="" type="checkbox"/> ROOF PLAN MONO & DUAL SLOPE-26 GA METAL	A3.3 A3.4
ROOF PLANS - TPO	<input type="checkbox"/> ROOF DETAILS - TPO <input type="checkbox"/> ROOF PLAN MONO & DUAL SLOPE-26 GA METAL	A3.5 A3.6
SOLAR READY ROOF OPTION	<input type="checkbox"/> SOLAR READY ROOF PLANS 24'X40', 36'X40' & 48'X40' <input type="checkbox"/> SOLAR READY ROOF PLANS 60'X40', 72'X40' & 84'X40' <input type="checkbox"/> SOLAR READY ROOF PLANS 96'X40', 108'X40' & 120'X40' <input type="checkbox"/> ELECTRICAL PLAN 24'X40' (WALL MOUNTED HVAC) SOLAR READY <input type="checkbox"/> ELECTRICAL PLAN 24'X40' (ROOF MOUNTED HVAC) SOLAR READY <input type="checkbox"/> ELECTRICAL PLAN 36'X40' (WALL MOUNTED HVAC) SOLAR READY <input type="checkbox"/> ELECTRICAL PLAN 36'X40' (ROOF MOUNTED HVAC) SOLAR READY <input type="checkbox"/> ELECTRICAL PLAN 48'X40' (WALL MOUNTED HVAC) SOLAR READY <input type="checkbox"/> ELECTRICAL PLAN 48'X40' (ROOF MOUNTED HVAC) SOLAR READY	A3.7SR A3.8SR A3.9SR E1.0SR E1.1SR E2.0SR E2.1SR E3.0SR E3.1SR
INTERIOR ELEVATIONS	<input type="checkbox"/> INTERIOR ELEVATIONS 24'X40' <input checked="" type="checkbox"/> INTERIOR ELEVATIONS 36'X40' <input type="checkbox"/> INTERIOR ELEVATIONS 48'X40'	A4.1 A4.2 A4.3
EXTERIOR ELEVATIONS WOOD SIDING	<input type="checkbox"/> EXTERIOR ELEVATIONS 24'X40'-WOOD SIDING OPTION 'A' (RIGHT HAND) <input type="checkbox"/> EXTERIOR ELEVATIONS 24'X40'-WOOD SIDING OPTION 'B' (RIGHT HAND) <input checked="" type="checkbox"/> EXTERIOR ELEVATIONS 36'X40'-WOOD SIDING <input type="checkbox"/> EXTERIOR ELEVATIONS 48'X40'-WOOD SIDING	A5.1-A A5.1-B A5.2 A5.3
EXTERIOR ELEVATIONS STUCCO SIDING	<input type="checkbox"/> EXTERIOR ELEVATIONS 24'X40'-STUCCO OPTION 'A' (RIGHT HAND) <input type="checkbox"/> EXTERIOR ELEVATIONS 24'X40'-STUCCO OPTION 'B' (RIGHT HAND) <input type="checkbox"/> EXTERIOR ELEVATIONS 36'X40'-STUCCO OPTION <input type="checkbox"/> EXTERIOR ELEVATIONS 48'X40'-STUCCO OPTION	A5.4-A A5.4-B A5.5 A5.6
WOOD STUD OPTION	<input checked="" type="checkbox"/> ARCHITECTURAL DETAILS WOOD STUD OPTION <input checked="" type="checkbox"/> WALL FRAMING DETAILS-WOOD STUD	A6.0 S3.0
METAL STUD OPTION	<input type="checkbox"/> ARCHITECTURAL DETAILS METAL STUD OPTION <input type="checkbox"/> WALL FRAMING DETAILS-STEEL STUD	A6.3 S3.1
ARCHITECTURAL DETAILS	<input checked="" type="checkbox"/> ALL CASES <input type="checkbox"/> FIRE RATED ASSEMBLIES <input type="checkbox"/> FIRE RATED DETAILS <input type="checkbox"/> SOLATUBE OPTION AT TPO ROOF <input type="checkbox"/> SOLATUBE WIRING AND DAYLIGHT HARVESTING	A6.1 & A6.2 A6.0 A6.1 A11.0 E5.0
SOLATUBE OPTION	<input type="checkbox"/> RESTROOM ACCESSORIES SCHEDULE & DETAILS <input type="checkbox"/> RESTROOM ACCESSIBILITY DETAILS <input type="checkbox"/> 24'X40' RESTROOM OPTION & ACCESSORY PLAN <input type="checkbox"/> 36'X40' RESTROOM OPTION & ACCESSORY PLAN <input type="checkbox"/> 48'X40' RESTROOM OPTION & ACCESSORY PLAN <input type="checkbox"/> PLUMBING SCHEDULE AND DETAILS <input type="checkbox"/> PLUMBING PLAN 24'X40' <input type="checkbox"/> PLUMBING PLAN 36'X40' <input type="checkbox"/> PLUMBING PLAN 48'X40'	A10.0 A10.1 A12.0 A12.1 A12.2 P0.0 P1.0 P2.0 P3.0
FOUNDATION OPTION WOOD PAD	<input checked="" type="checkbox"/> WOOD PAD FOUNDATION DETAILS <input type="checkbox"/> WOOD PAD FOUNDATION PLAN-PLYWOOD FLOOR <input type="checkbox"/> WOOD PAD FOUNDATION PLAN-CONCRETE FLOOR	F1.0 F1.1 F1.2
FOUNDATION OPTION CONCRETE	<input type="checkbox"/> GENERAL DETAILS <input type="checkbox"/> ABOVE GRADE CONCRETE FOUNDATION DETAILS <input type="checkbox"/> ABOVE GRADE CONCRETE FOUNDATION PLAN <input type="checkbox"/> FLUSH TO GRADE CONCRETE FOUNDATION DETAILS <input type="checkbox"/> FLUSH TO GRADE CONCRETE FOUNDATION PLAN	F0.0 F2.0 F2.1 F3.0 F3.1
STRUCTURAL PLYWOOD FLOOR OPTION	<input checked="" type="checkbox"/> ALL CASES <input type="checkbox"/> BUILDING SECTIONS PLYWOOD FLOOR <input type="checkbox"/> FLOOR FRAMING PLAN-PLYWOOD	S0.0a, S0.0b, S0.3, S1.0, S2.0, S3.2 & S4.0 S0.1 S1.1
CONCRETE FLOOR OPTION	<input type="checkbox"/> BUILDING SECTIONS CONCRETE FLOOR <input type="checkbox"/> FLOOR FRAMING PLAN-CONCRETE	S0.1 S1.1
ROOF TRUSS OPTION	<input type="checkbox"/> ROOF TRUSS AND DETAILS	S2.1
MECHANICAL MECHANICAL PLANS WALL MOUNT OPTION	<input checked="" type="checkbox"/> ALL CASES <input type="checkbox"/> MECHANICAL PLAN WALL MOUNT 24'X40' <input checked="" type="checkbox"/> MECHANICAL PLAN WALL MOUNT 36'X40' <input type="checkbox"/> MECHANICAL PLAN WALL MOUNT 48'X40'	M0.0, M0.1, M3.1, M3.2, M3.3, M3.4, M3.5, M3.6, M3.7, M3.8 & M3.9 M1.1 M1.2 M1.3
MECHANICAL PLANS ROOF MOUNT OPTION	<input type="checkbox"/> MECHANICAL ROOF PLAN 24'X40' <input type="checkbox"/> MECHANICAL PLAN ROOF MOUNT 24'X40' <input type="checkbox"/> MECHANICAL ROOF PLAN 36'X40' <input type="checkbox"/> MECHANICAL PLAN ROOF MOUNT 36'X40' <input type="checkbox"/> MECHANICAL ROOF PLAN 48'X40' <input type="checkbox"/> MECHANICAL PLAN ROOF MOUNT 48'X40'	M2.1 M2.2 M2.3 M2.4 M2.5 M2.6
ELECTRICAL ELECTRICAL PLANS WALL MOUNT OPTION	<input checked="" type="checkbox"/> ALL CASES <input type="checkbox"/> ELECTRICAL PLAN 24'X40' (WALL MOUNTED HVAC) <input checked="" type="checkbox"/> ELECTRICAL PLAN 36'X40' (WALL MOUNTED HVAC) <input type="checkbox"/> ELECTRICAL PLAN 48'X40' (WALL MOUNTED HVAC)	E0.0 & E4.0DL E1.0 E2.0 E3.0
ELECTRICAL PLANS ROOF MOUNT OPTION	<input type="checkbox"/> ELECTRICAL PLAN 24'X40' (ROOF MOUNTED HVAC) <input type="checkbox"/> ELECTRICAL PLAN 36'X40' (ROOF MOUNTED HVAC) <input type="checkbox"/> ELECTRICAL PLAN 48'X40' (ROOF MOUNTED HVAC)	E1.1 E2.1 E3.1
RAMP, LANDING & STAIR OPTION	<input checked="" type="checkbox"/> RAMP & LANDING DETAILS <input type="checkbox"/> RAMP & LANDING (ATTACHED HANDRAIL) <input checked="" type="checkbox"/> RAMP & LANDING (FREE STANDING HANDRAIL) <input type="checkbox"/> RAMP & LANDING (OFFSET RAMP) <input checked="" type="checkbox"/> RAMP & LANDING (COMMON LANDING) <input type="checkbox"/> STAIR & LANDING & DETAILS	R0.0 R1.0 R2.0 R3.0 R4.0 R5.0

NOTE:  
THE OPTION LIST APPLIES TO ALL PROJECTS THAT ARE PC RELATED. THE OPTION SHEET IS INVALID WHEN NEW SHEETS ARE IMPLEMENTED. THE PURPOSE OF THE OPTION LIST IS TO EXPEDITE PLAN REVIEW AT AN OVER-THE-COUNTER APPOINTMENT AND TO ENSURE THAT THE CORRECT SHEETS WITH THE CORRECT PC OPTION IS UTILIZED CORRECTLY AND APPLIED CORRECTLY TO THE SITE ADAPT PROJECT

FLOOR FRAMING: (CHECK ONE)

FLOOR LIVE LOAD: SEE COVER SHEET

FLOOR BEAM SIZE: SEE STRUCTURAL

JOIST TYPE: SEE STRUCTURAL SHEETS

JOIST SPACING: SEE STRUCTURAL SHEETS

\*INSULATION: R-11 UNFACED ☒ R-19 UNFACED ☐

BOTTOM ENCLOSURE: CANXEV CW-600

FLOOR DECK: PLYWOOD DECKING ☒ LIGHTWEIGHT CONCRETE ☐

REFERENCE: FLOOR FRAMING SHEETS

MISC: PLYWOOD FLOORS TO HAVE MIN R-11 INSULATION  
CONCRETE FLOORS TO HAVE MIN R-11 INSULATION

ROOF FRAMING: (CHECK ONE)

ROOF LIVE LOAD: SEE COVER SHEET

ROOF SLOPE: DUAL SLOPE ☐ MONO SLOPE ☒

JOIST SIZE & GRADE: SEE STRUCTURAL SHEETS

\*INSULATION: R-30 UNFACED ☒

FINISH ROOFING: 22 GA GALV STANDING SEAM ROOF ☐

26 GA GALV STANDING SEAM ROOF ☒

45 MIL TPO W/ 1/4" DENSDECK ☐ 60 MIL TPO W/ 1/4" DENSDECK ☐

ROOF SHEATHING: 3/4" C-D PLYWOOD @ NON 22 GA ROOFING

FRONT OVERHANG: NO ☐ YES ☒

REAR OVERHANG: NO ☐ YES ☒

OVERHANG MEMBER: ANGLE ☐ C-CHANNEL ☒

SOFFITS: OPEN SOFFITS ☐ CLOSED SOFFITS ☒

DRAINAGE SYSTEM: 26 GA GUTTERS & DOWNSPOUTS

REFERENCE: ROOF FRAMING SHEETS

NOTE: SOFFIT FINISH TO MATCH WALL FINISH

EXTERIOR WALLS WOOD STUD OPTION: ☒

WIND LOAD: SEE COVER SHEET

STUD SIZE: 2"x6" UNO BY WALL LEGEND ON COVER SHEET/FLR PLAN

SPACING: SEE CHART ON WALL FRAMING ELEVATIONS

GRADE: SEE CHART ON WALL FRAMING ELEVATIONS

INSULATION: R-19 UNFACED ☒

FIRE RESISTIVE CONSTRUCTION: NO ☒ YES ☐ (SEE FIRE RATED DETAIL SHEETS)

REFERENCE: WALL FRAMING ELEVATIONS

MISC:

EXTERIOR WALLS STEEL STUD OPTION: ☐

WIND LOAD: SEE COVER SHEET

STUD SIZE: 5 1/2" UNO BY WALL LEGEND ON COVER SHEET/FLR PLAN

SPACING: SEE CHART ON WALL FRAMING ELEVATIONS

GRADE: SEE CHART ON WALL FRAMING ELEVATIONS

\*INSULATION: R-19 UNFACED ☒ R-19 UNFACED ☐

FIRE RESISTIVE CONSTRUCTION: NO ☐ YES ☐ (SEE FIRE RATED DETAIL SHEETS)

REFERENCE: WALL FRAMING ELEVATIONS

MISC:

NON-BEARING INTERIOR WALLS: (CHECK ONE)

STUD SIZE: ☐ 2"x4" UNO BY WALL LEGEND ON COVER SHEET/FLR PLAN

STUD SIZE: ☒ 3 5/8" UNO BY WALL LEGEND ON COVER SHEET/FLR PLAN

SPACING: 24" OC MAX (PER SECT 2308.9.2.3)

GRADE: ☐ HEMLOCK FIR MIN ☐ 20 GA MIN

PARTITION HEIGHT: TO RAFTERS ☐ BELOW RAFTERS ☐

INSULATION: R-13 UNFACED ☐ R-19 UNFACED ☐

FIRE RESISTIVE CONSTRUCTION: NO ☐ YES ☐ (SEE FIRE RATED DETAIL SHEETS)

REFERENCE: WALL FRAMING DETAILS

NOTES: INTERIOR WALLS SEPARATING TENANT SPACE OR PUBLIC AREAS  
REQUIRE A SOUND OF STC 40 PER ENERGY CODE SECTION 5.507.4.3.  
SEE DETAILS #A,B/A0.7

PLUMBING: (CHECK ONE)

ABS SCHEDULE 40 WASTE ☐



HARDWARE GROUP (ENTRY) 1		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	FALCON ANSI F88 "DANE" 626
1	KEYING	SCHLAGE "C" KEYWAY
3	HINGES	"MCKINNEY": T2714 4.5"x4.5" NRP A5133
1	CLOSER	"NORTON": 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	"MCKINNEY": MCK271A 36"
1	DOOR BOTTOM	"MCKINNEY": MCK216AV 36"
1	WEATHER-STRIP	"MCKINNEY": MCK2891AS 36"x84"
1	KICK PLATE	"MCKINNEY": KP50 10"x34"
1	DOOR STOP	"MCKINNEY": FS02 FLOOR STOP (LOCATED 4" FROM WALL)

HARDWARE GROUP (PANIC) 2		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	"VON DUPRIN": PUSH BAR AX-22-L-SP28 RIM EXT. DEVICE
1	EXTERIOR TRIM	"VON DUPRIN": LEVER HANDLE 230L TRIM
1	KEYING	SCHLAGE "C" KEYWAY
3	HINGES	"MCKINNEY": T2714 4.5"x4.5" NRP A5133
1	CLOSER	"NORTON": 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	"MCKINNEY": MCK271A 36"
1	DOOR BOTTOM	"MCKINNEY": MCK216AV 36"
1	WEATHER-STRIP	"MCKINNEY": MCK2891AS 36"x84"
1	KICK PLATE	"MCKINNEY": KP50 10"x34"
1	DOOR STOP	"MCKINNEY": FS02 FLOOR STOP (LOCATED 4" FROM WALL)

HARDWARE GROUP (PRIVACY) 3		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	"SCHLAGE": ND40S RHODES LEVER 626
3	HINGES	"MCKINNEY": T2714 4"x4" A5133

HARDWARE GROUP (OFFICE) 4		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	"SCHLAGE": ND53PD RHODES LEVER 626
1	KEYING	SCHLAGE "C" KEYWAY
3	HINGES	"MCKINNEY": T2714 4"x4" A5133

HARDWARE GROUP (PASSAGE) 5		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	"SCHLAGE": ND10S RHODES LEVER 626
3	HINGES	"MCKINNEY": T2714 4"x4" A5133

HARDWARE GROUP (STORAGE) 6		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	"SCHLAGE": ND80PD RHODES LEVER 626
1	KEYING	SCHLAGE "C" KEYWAY
3	HINGES	"MCKINNEY": T2714 4"x4" A5133

HARDWARE GROUP (MULTI-USE EXT. R.R.) 7		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	"SCHLAGE": ND94PD RHODES LEVER 626
1	KEYING	SCHLAGE "C" KEYWAY
3	HINGES	"MCKINNEY": T2714 4.5"x4.5" NRP A5133
1	CLOSER	"NORTON": 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	"MCKINNEY": MCK271A 36"
1	DOOR BOTTOM	"MCKINNEY": MCK216AV 36"
1	WEATHER-STRIP	"MCKINNEY": MCK2891AS 36"x84"
1	DOOR STOP	"MCKINNEY": FS02 FLOOR STOP (LOCATED 4" FROM WALL)
1	LOUVERS	"AIR LOUVERS, INC": 800A 24"x12"
1	KICK PLATE	"MCKINNEY": KP50 10"x34"

HARDWARE GROUP (SINGLE-USE EXT. R.R.) 8		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	"SCHLAGE": ND73PD RHODES LEVER 626
1	KEYING	SCHLAGE "C" KEYWAY
3	HINGES	"MCKINNEY": T2714 4.5"x4.5" NRP A5133
1	CLOSER	"NORTON": 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	"MCKINNEY": MCK271A 36"
1	DOOR BOTTOM	"MCKINNEY": MCK216AV 36"
1	WEATHER-STRIP	"MCKINNEY": MCK2891AS 36"x84"
1	DOOR STOP	"MCKINNEY": FS02 FLOOR STOP (LOCATED 4" FROM WALL)
1	LOUVERS	"AIR LOUVERS, INC": 800A 24"x12"
1	KICK PLATE	"MCKINNEY": KP50 10"x34"

DOOR SCHEDULE										
#	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	HARDWARE GROUP	DOOR MATERIAL	DOOR GAUGE	DOOR FRAME	FRAME GAUGE	GLAZING	FIRE RATING
100	A	3'-0"	7'-0"	1	STL	18	KD	16	-	-
200	A	3'-0"	7'-0"	2	STL	18	KD	16	-	-
200B	A	3'-0"	7'-0"	2	STL	18	KD	16	-	-
300	A	3'-0"	7'-0"	2	STL	18	KD	16	-	-
300A	A	3'-0"	7'-0"	5	SCL	-	TM	-	-	-
301	A	3'-0"	7'-0"	2	STL	18	KD	16	-	-

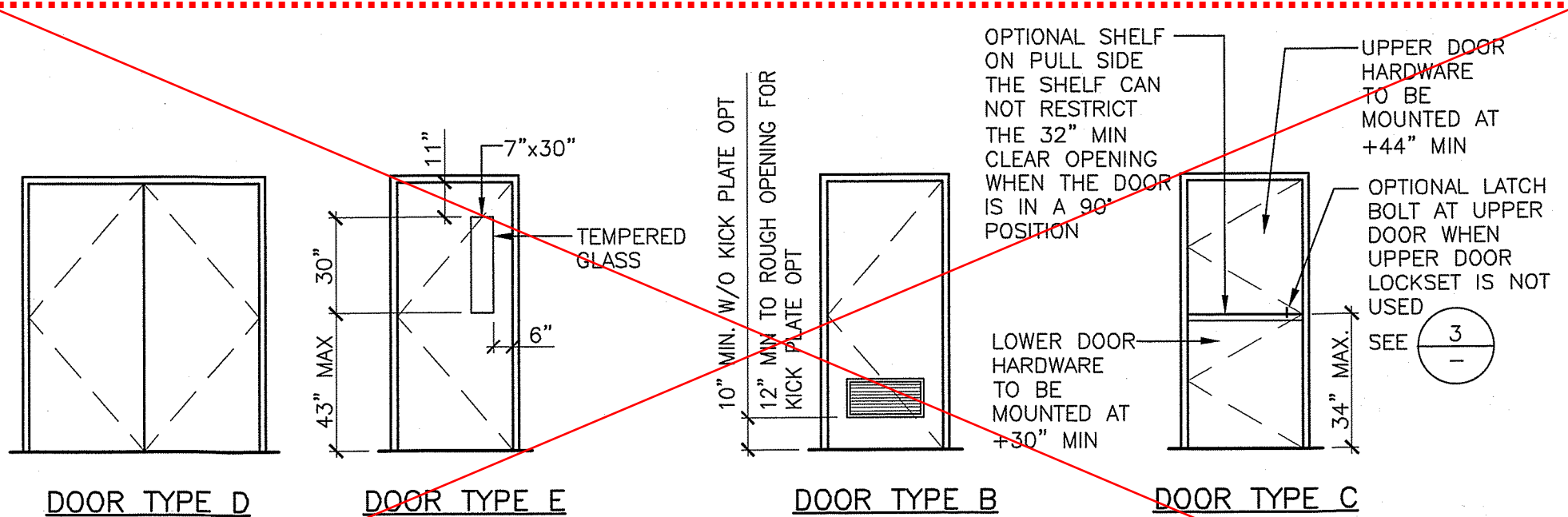
OPTIONAL DOOR SCHEDULE										
	A	3'-0"	7'-0"	3	SCL	-	TM	-	-	-
	B	3'-0"	7'-0"	-	STL	18	WF	16	-	W/24"x18" LOUVER
	C	3'-0"	7'-0"	-	SCL	-	TM	-	-	DUTCH DOOR
	D	(2)3'-0"	7'-0"	-	STL	18	WF	16	-	DOUBLE DOOR
	E	3'-0"	7'-0"	-	STL	18	WF	16	YES	SEE GLAZING SIZE BELOW

**DOOR MATERIAL LEGEND**  
 STL: STEEL DOOR-HOLLOW CORE  
 SCW: SOLID CORE WOOD  
 SCL: SOLID CORE WOOD LEGACY  
 HCW: HOLLOW CORE WOOD  
 SF: STORE FRONT

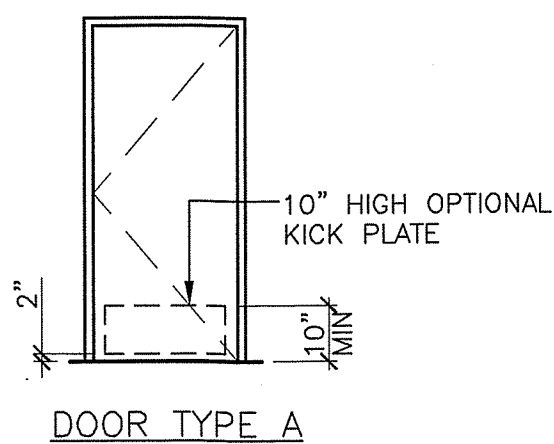
**DOOR FRAME LEGEND**  
 WF: WELDED FRAMING-HOLLOW METAL  
 TM: TIMELY METAL  
 KD: KNOCK DOWN-HOLLOW METAL  
 SF: STORE FRONT

**NOTE:**  
 CBC 1010.1.11 - NEW BUILDINGS ON A 12K PUBLIC SCHOOL CAMPUS SHALL BE PROVIDED WITH LOCKS WHICH ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANT LOAD OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INTERIOR. LOCKS SHALL CONFORM TO THE SPECIFICATION AND REQUIREMENTS OF SECTION 1010.1.10. EXCEPTIONS INCLUDE DOORS WHICH ARE NORMALLY LOCKED FROM THE OUTSIDE, RELOCATABLE MOVED WITHIN THE SAME CAMPUS, AND RECONSTRUCTION PROJECTS.

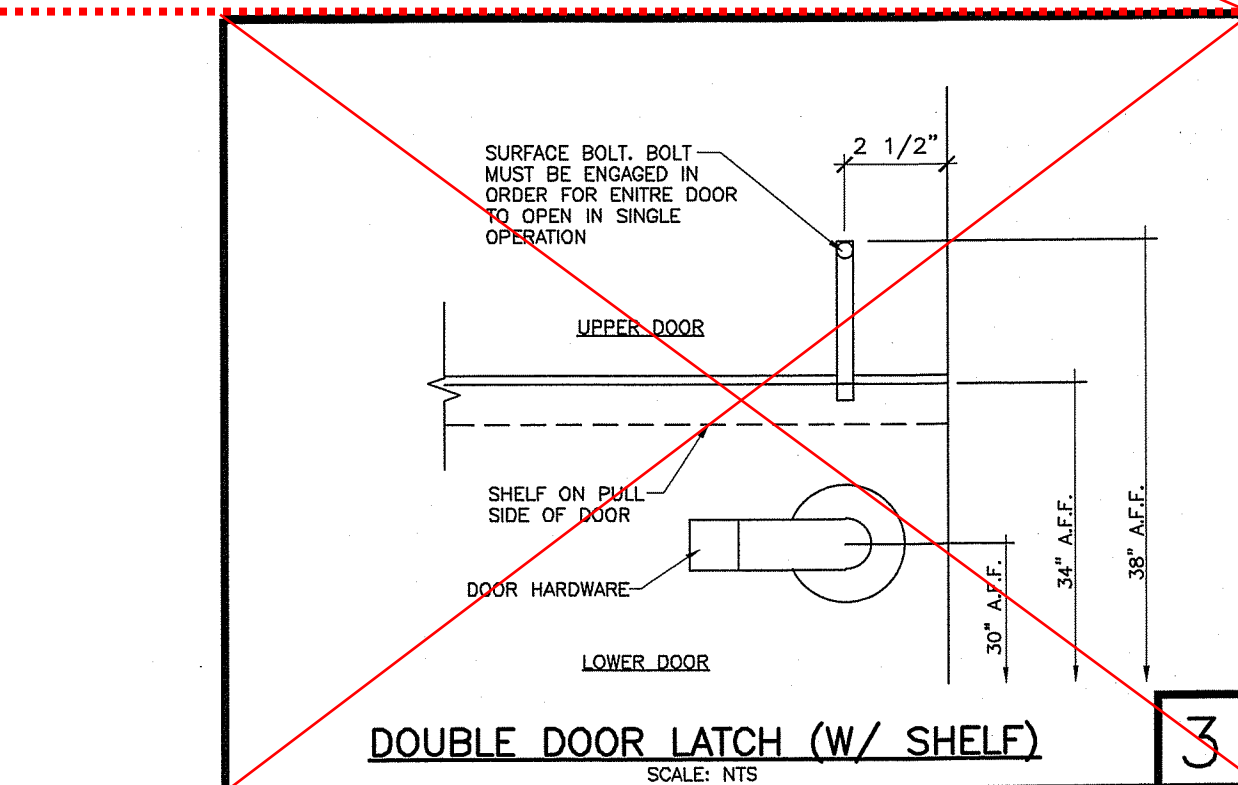
**FOR UPDATED  
HARDWARE  
SCHEDULE  
SEE SHEET A0.3ps**



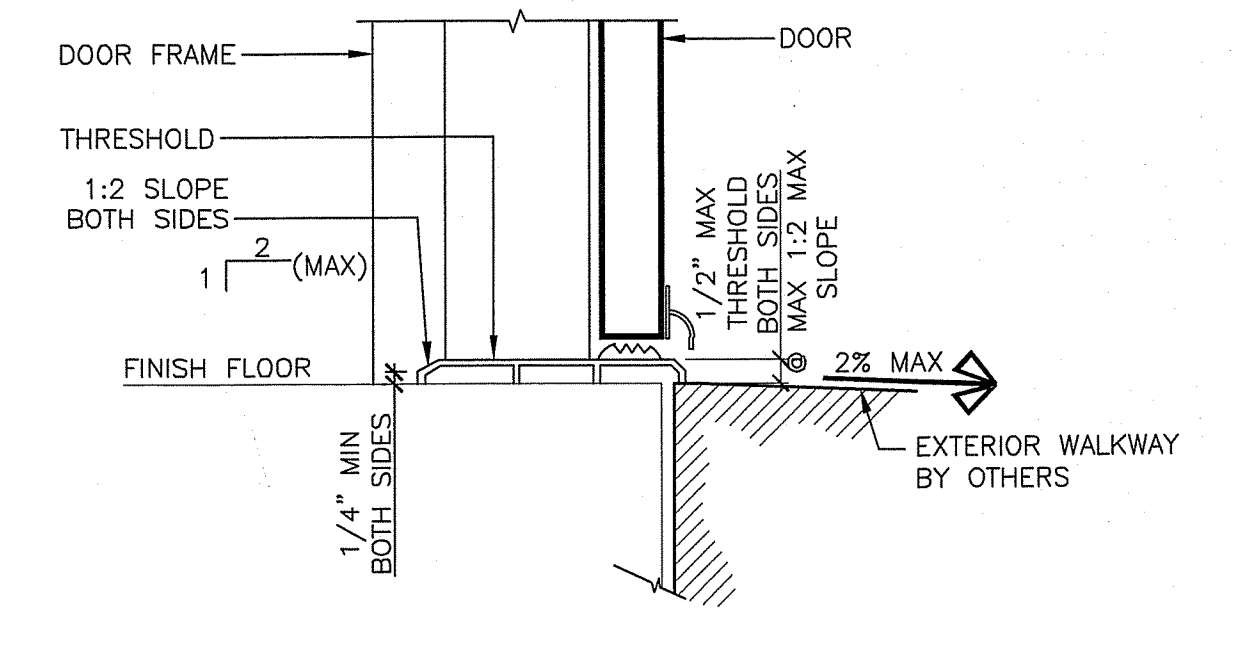
**OPTIONAL DOOR TYPES**



**STANDARD DOOR TYPE**



**DOUBLE DOOR LATCH (W/ SHELF)**



**ACCESSIBLE THRESHOLD**

ROOM FINISH SCHEDULE										
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE	WALLS				CEILING FINISH	HEIGHT CEILING	REMARKS
				ELEV. 1	ELEV. 2	ELEV. 3	ELEV. 4			
100	CLASSROOM	CPT	4TB	VT	VT	VT	VT	AT	8'-6"	-
200	CLASSROOM	CPT	4TB	VT	VT	VT	VT	AT	8'-6"	-
300	CLASSROOM	CPT	4TB	VT	VT	VT	VT	AT	8'-6"	-
301	CLASSROOM	CPT	4TB	VT	VT	VT	VT	AT	8'-6"	-

OPTIONAL ROOM FINISH SCHEDULES										
101	RR/JANITOR/URINAL	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-0"	-
201	RR/JANITOR/URINAL	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-0"	-
302	RR/JANITOR/URINAL	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-0"	-
303	RR/JANITOR/URINAL	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-0"	-

NOTE: FINISHES BY OWNER SHALL COMPLY WITH SPECIFICATIONS ON SHEET A0.2

**FLOOR FINISH LEGEND**  
 CPT: CARPET FLOORING  
 SV: SHEET VINYL FLOORING  
 VCT: VINYL COMPOSITION TILE  
 4TB: 4" TOP SET BASE  
 6TB: 6" TOP SET BASE  
 6SC: 6" SELF COVE BASE  
 BO: BY OWNER

**WALL FINISH LEGEND:** (CHECK BOX WHERE APPLICABLE)  
 VT: 1/2" VINYL TACK BOARD OVER:  
 1/2" GYP BOARD ☐  
 OPTIONAL 5/8" GYP BOARD ☐  
 NOTE: USE TYPE 'X' GYP BOARD WHERE CALL FOR. USE MOISTURE RESISTANT GYP BOARD BEHIND CLASSROOM SINKS

**CEILING FINISH LEGEND:** (CHECK BOX WHERE APPLICABLE)  
 AT: ACOUSTICAL TILE IN HEAVY DUTY T-BAR GRID  
 ARMSTRONG NO. 769  
 HL: 1/2" GYP BOARD TAPE/TEXTURED/PAINTED ☐  
 5/8" GYP BOARD TAPE/TEXTURED/PAINTED ☐

FRP: 1/8" FIBERBOARD REINFORCED PANELS OVER:  
 1/2" MOISTURE RESISTANT GYP BOARD ☐  
 OPTIONAL 5/8" MOISTURE RESISTANT GYP BOARD ☐  
 PGYP: 1/2" GYP BOARD TAPE/TEXTURED/PAINTED ☐  
 OPTIONAL 5/8" GYP BOARD TAPE/TEXTURED/PAINTED ☐  
 NOTE: USE TYPE 'X' GYP BOARD WHERE CALL FOR. USE MOISTURE RESISTANT GYP BOARD BEHIND CLASSROOM SINKS AND/OR WET AREAS

**WINDOW FRAME LEGEND**  
 AL: ALUMINUM  
 HM: HOLLOW METAL

**WINDOW FINISHES**  
 CA: CLEAR ANODIZED  
 BA: BRONZE ANODIZED  
 PNI: PAINTED

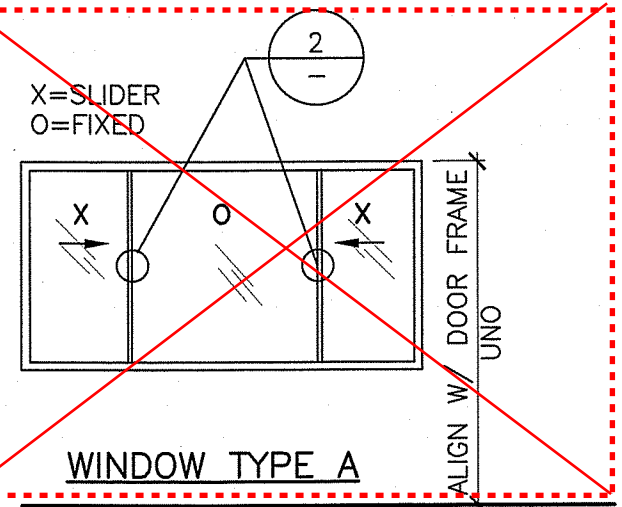
**GLAZING TYPES**  
 1: 46% TEMPERED GRAYLITE  
 2: 14% TEMPERED GRAYLITE  
 3: CLEAR TEMPERED  
 4: DUAL PANE  
 5: SINGLE PANE

**GLAZING NOTE**  
 1. GLAZING U-FACTOR SHALL NOT EXCEED 0.35 MAX  
 2. SHGC SHALL BE 0.24 MAX  
 3. VISIBLE TRANSMITTANCE SHALL NOT EXCEED 0.50 MAX

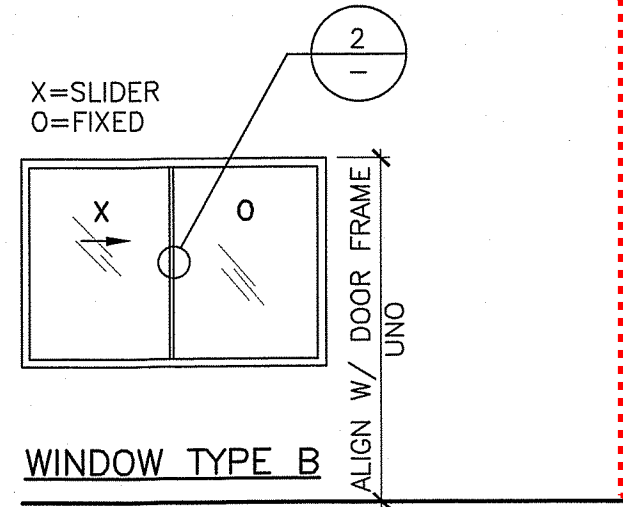
**STC RATING EXTERIOR WINDOWS**  
☐ MIN STC 40 RATING

WINDOW SCHEDULE							
*	WINDOW WIDTH	WINDOW HEIGHT	WINDOW FRAME	WINDOW FINISH	WINDOW GLAZING	FIRE RATING	REMARKS
A	8'-0"	4'-0"	AL	CA	1&4		SCREENED
B	6'-0"	4'-0"	AL	CA	1&4	-	SCREENED
C	4'-0"	4'-0"	AL	CA	1&4	-	SCREENED
D	8'-0"	2'-0"	AL	CA	1&4		SCREENED

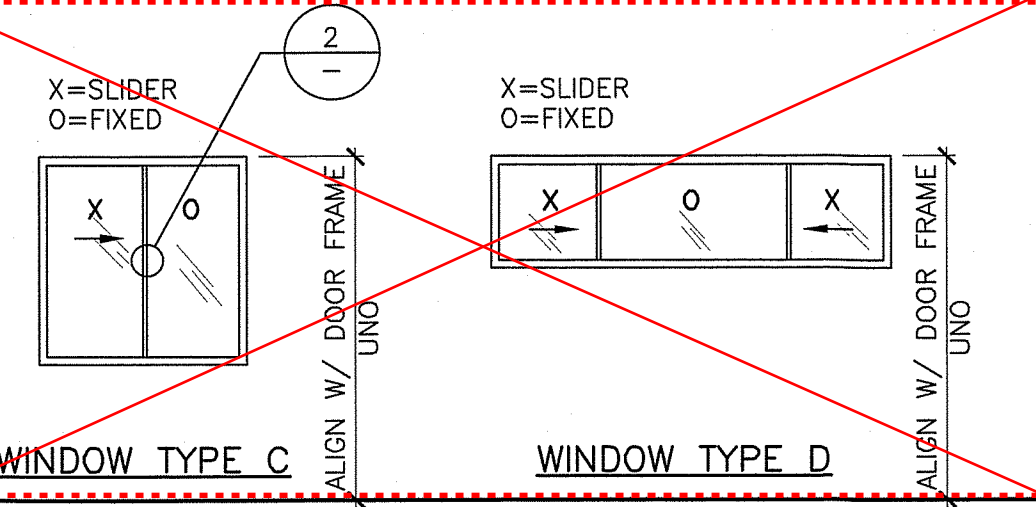
**NOTE:**  
 OPERATION OF WINDOW AND HARDWARE SHALL NOT REQUIRE MORE THAN 5 LBS MAX FORCE



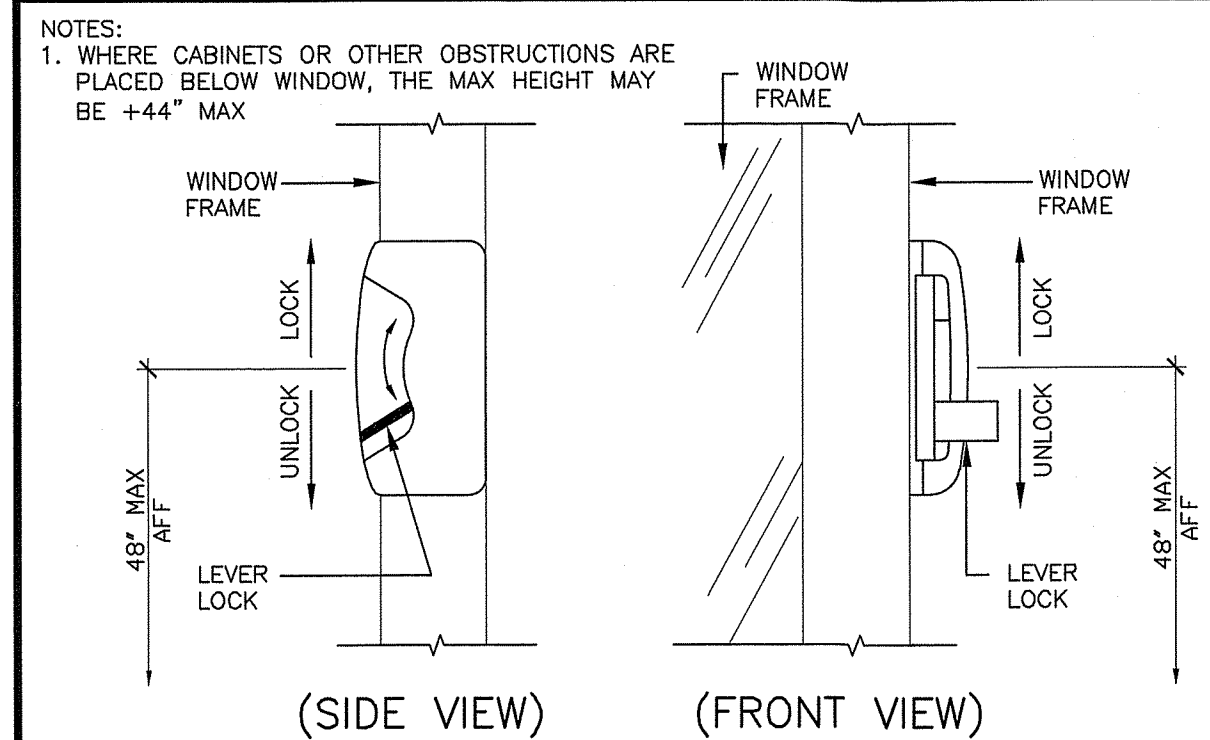
**STANDARD WINDOW TYPE**



**OPTIONAL WINDOW TYPE**



**STANDARD WINDOW TYPE**



**WINDOW HANDLE**

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 02-118411 INC:  
 REVIEWED FOR  
 SS ☒ FLS ☒ ACS ☒  
 DATE: 06/11/2020

**GLOBAL MODULAR**  
 Incorporated

**AURORA MODTECH**  
 DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
 1200 AIRPORT DRIVE  
 CHOWCHILLA, CA 93610  
 PHONE: (559) 666-5900  
 FAX: (559) 666-5700  
 WEBSITE: WWW.GMOD.NET

SOUTHERN CALIFORNIA DIVISION  
 1660 CHICAGO AVE., SUITE #N-21  
 RIVERSIDE, CA 92507  
 PHONE: (951) 686-3633  
 FAX: (951) 686-3662  
 WEBSITE: WWW.GMOD.NET

PROJECT NAME:

SHEET TITLE:

**FINISH, DOOR &  
WINDOW SCHEDULES**

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
 DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
 CODE: 2016 CBC  
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

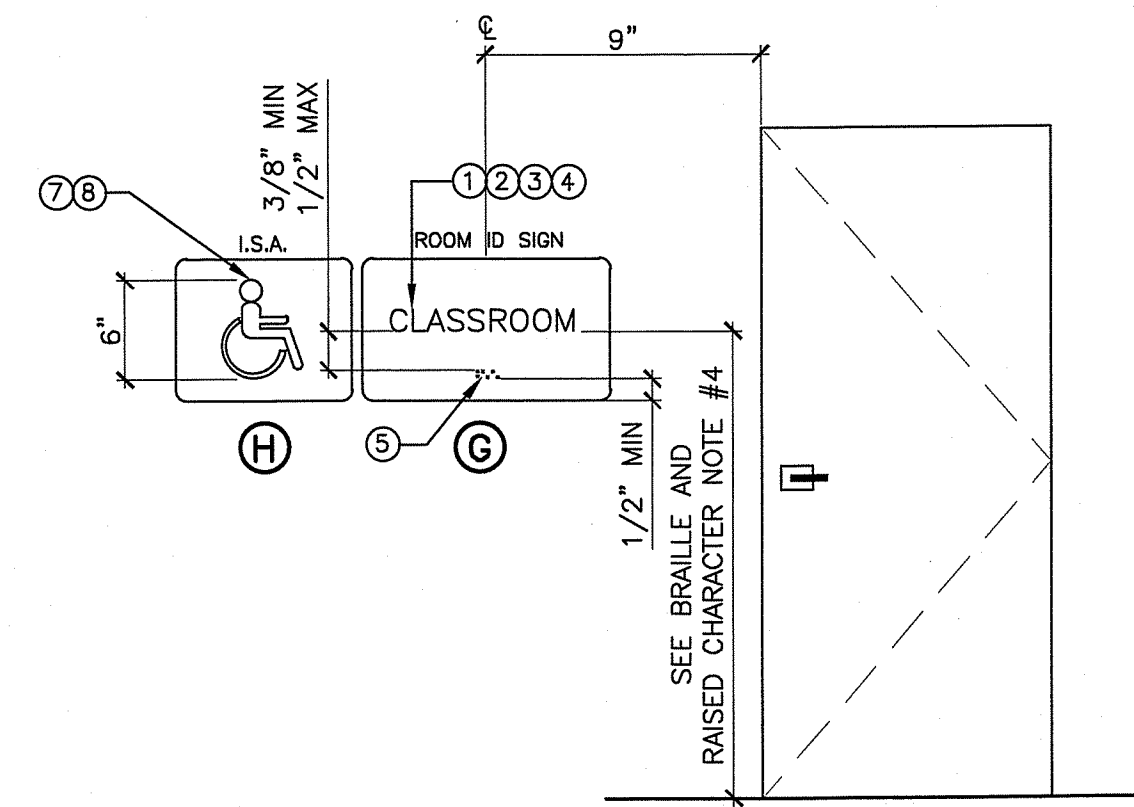
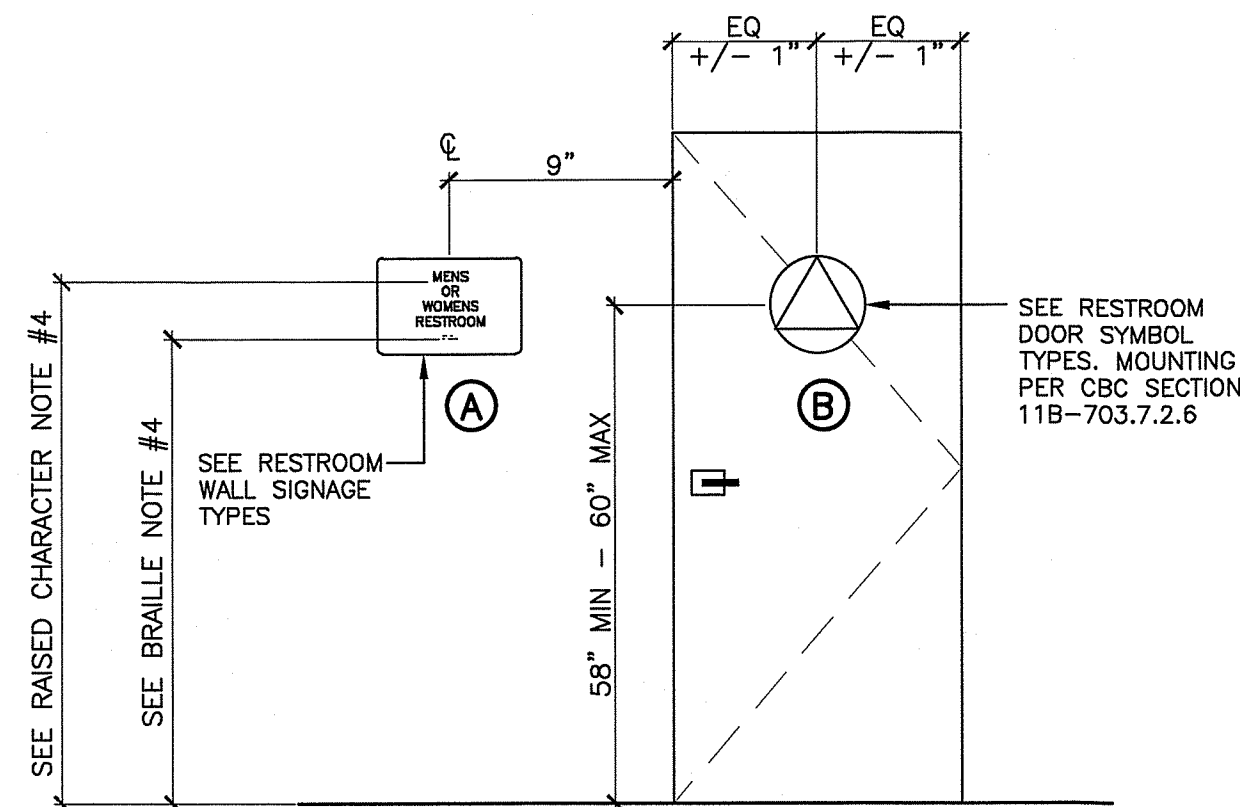
IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 PC/02-116677  
 AC ☒ FLS ☒ SS ☒ g  
 DATE: DEC 14 2018

REVISIONS

PROJECT NO.: 00-0000  
 DRAWN BY: 00  
 SCALE: AS NOTED  
 DATE: 00-00-00  
 SHEET NUMBER

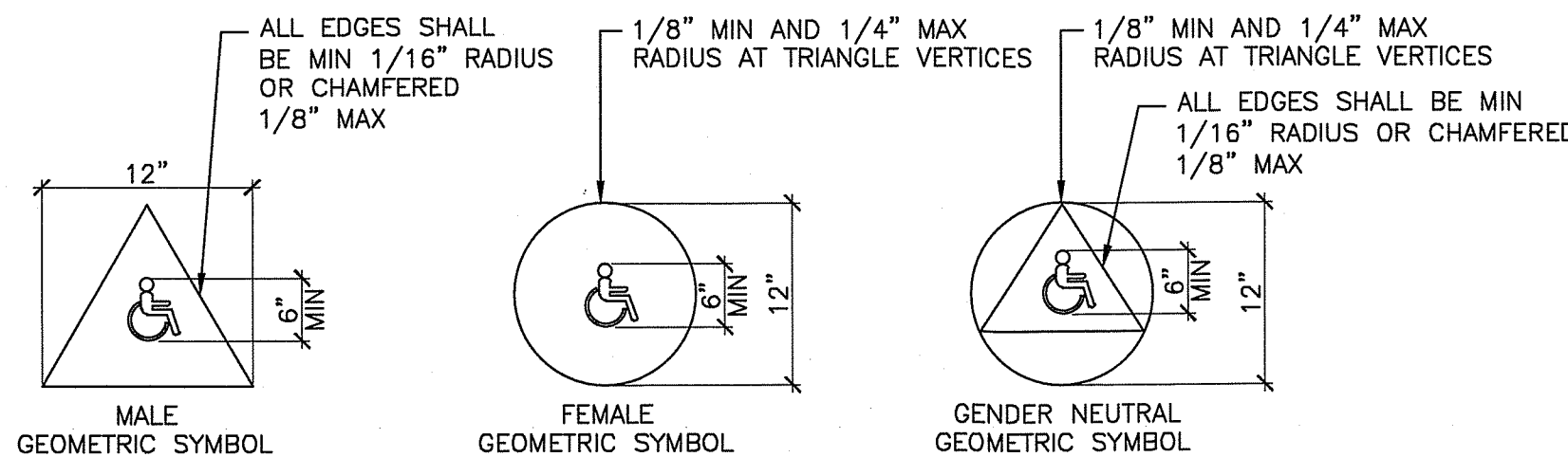
**A0.3**





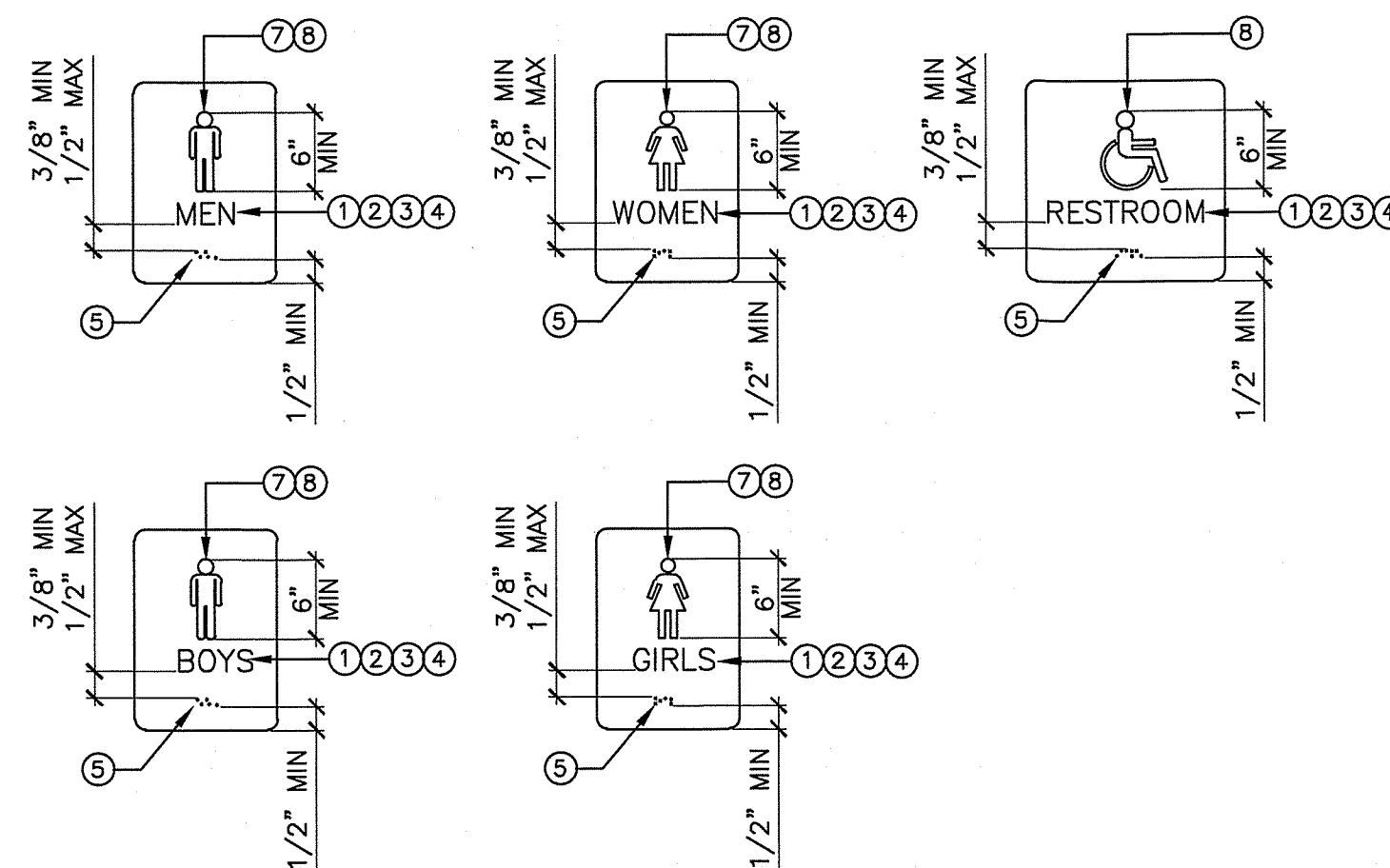
- GENERAL NOTES:
- EXIT SIGNAGE PER CBC SECTION 11B-703.2 & 11B-703.3
  - REST ROOM SIGNAGE PER CBC SECTION 11B-703.6 REST ROOM WALL AND DOOR SIGNAGE BY MANUFACTURER UNO
  - CLASSROOM SIGNAGE IS FURNISHED AND INSTALLED BY DISTRICT ON-SITE UNO. ARCHITECT TO SPECIFY DESIGN AND SIZE
  - EXIT TACTILE SIGN BY MANUFACTURER UNO
  - I.S.A. SIGN BY MANUFACTURER UNO. I.S.A. COLOR AND PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.2.1 TYP WHENEVER USED
  - PER FEDERAL ADDAAG, BRAILLE ON RESTROOM GEOMETRIC DOOR SIGNS IS PROHIBITED. TEXT DESIGNATING THE GENDER ACCESS IS OPTIONAL HOWEVER THE TEXT DOES NOT REQUIRE TO COMPLY WITH TACTILE TEXT REQUIREMENTS

#### RESTROOM DOOR SYMBOLS TYPES:



- 12" EQUILATERAL TRIANGLE 1/2" THICK WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY CBC SECTION 11B-703.7.2.6.1 TRIANGLE SHALL CONTRAST WITH DOOR
- 12" CIRCLE 1/2" THICK WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY CBC SECTION 11B-703.7.2.6.2 CIRCLE SHALL CONTRAST WITH DOOR
- 1/4" THICK TRIANGLE SUPERIMPOSED OVER 1/4" THICK CIRCLE. TRIANGLE MUST CONTRAST IN COLOR FROM THE CIRCLE & CIRCLE SHALL CONTRAST WITH THE DOOR CBC SECTION 11B-703.7.2.6.3

#### RESTROOM WALL SIGNAGE TYPES:



#### BRAILLE AND RAISED CHARACTERS

- RAISED CHARACTERS: CBC SECTION 11B-703.2, RAISED CHARACTERS SHALL COMPLY WITH SECTION 11B-703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH SECTION 11B-703.3. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 11B-703.4
- CHARACTER DEPTH: CBC SECTION 11B-703.2.1, RAISED CHARACTERS SHALL BE 1/32" MINIMUM ABOVE THEIR BACKGROUND
- CHARACTER CASE: CBC SECTION 11B-703.2.2, CHARACTERS SHALL BE UPPERCASE
- CHARACTER STYLE: CBC SECTION 11B-703.2.3, CHARACTER SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS
- CHARACTER HEIGHT: CBC SECTION 11B-703.2.5, CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" MINIMUM AND 2" MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I"
- FINISH AND CONTRAST: CBC SECTION 11B-703.5.1, CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND
- CHARACTER PROPORTIONS: CBC SECTION 11B-703.2.4, CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER

MOUNTING HEIGHT: CBC SECTION 11B-703.4.1, TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS

- BRAILLE: CBC SECTION 11B-703.3, BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4

BRAILLE DIMENSIONS AND CAPITALIZATION: CBC SECTION 11B-703.3.1, BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS

BRAILLE POSITION: CBC SECTION 11B-703.3.2, BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" MINIMUM AND 1/2" MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS

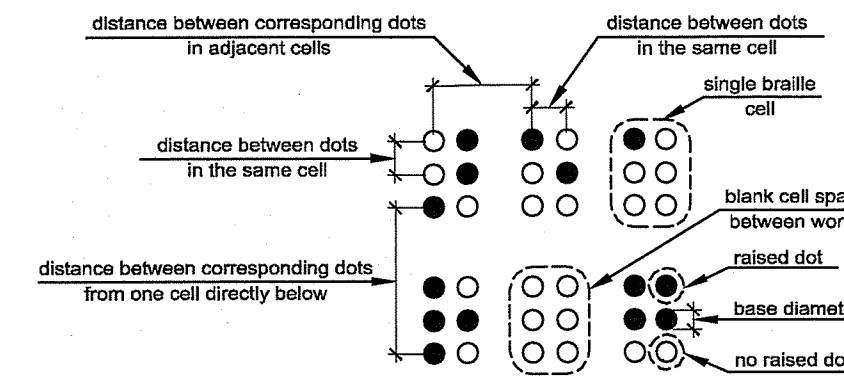
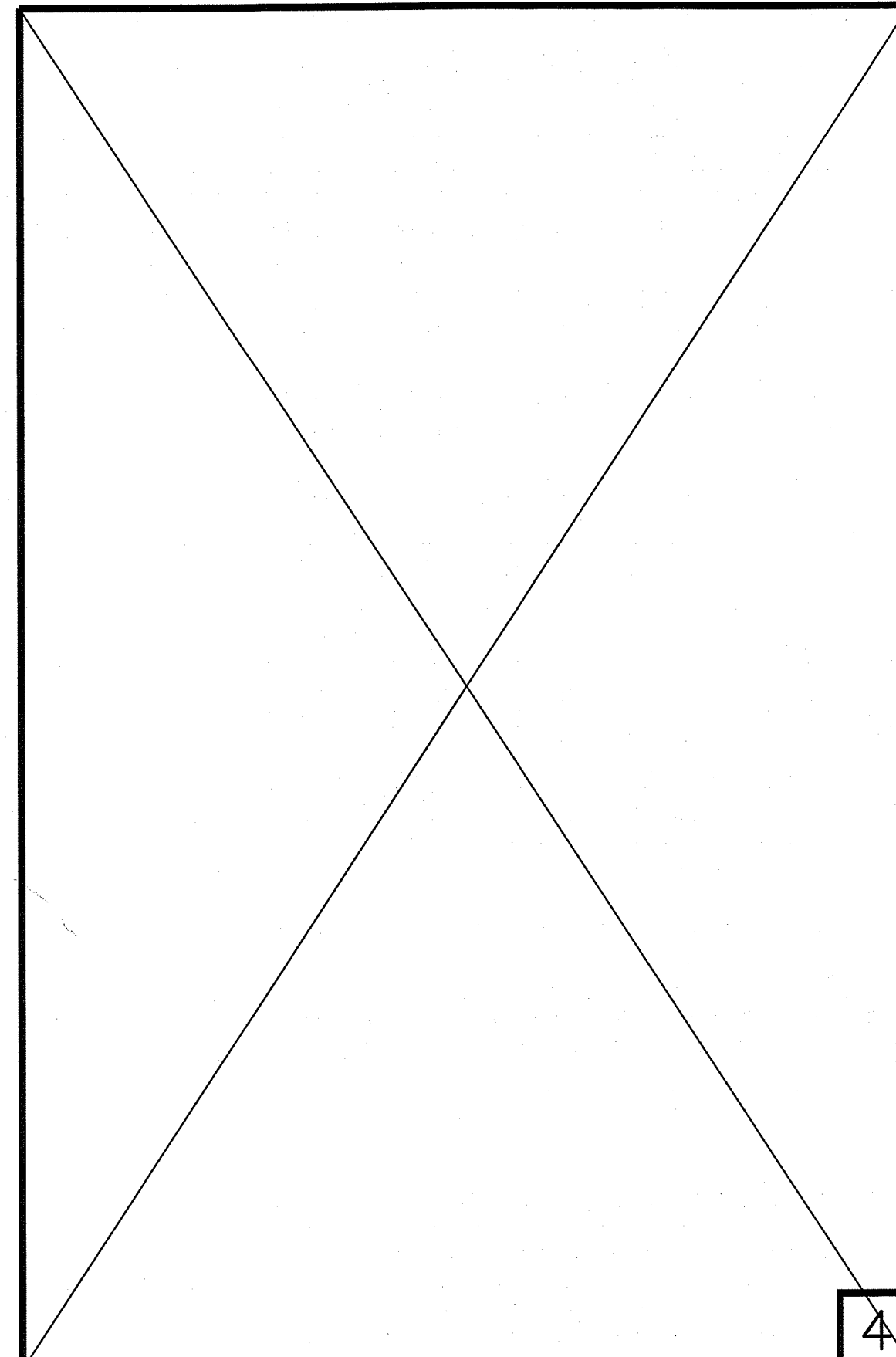


FIGURE 11B-703.3.1 BRAILLE MEASUREMENT

#### TYPICAL SIGNAGE



ROOM OCCUPANCY  
"XX"  
MAXIMUM

- NOTES:
- SIGN MATERIAL TO BE 1/8" THICK ES PLASTIC. MOUNT WITH VANDAL RESISTANT FASTENERS
  - SIGN PROVIDED BY DISTRICT UNO

#### OCCUPANCY SIGNAGE

#### PICTOGRAMS AND SYMBOLS (WALL ROOM I.D. SIGN)

- PICTOGRAM FIELD: CBC SECTION 11B-703.6.1, PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 8 INCHES MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD

FINISH AND CONTRAST: CBC SECTION 11B-703.6.2, PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD

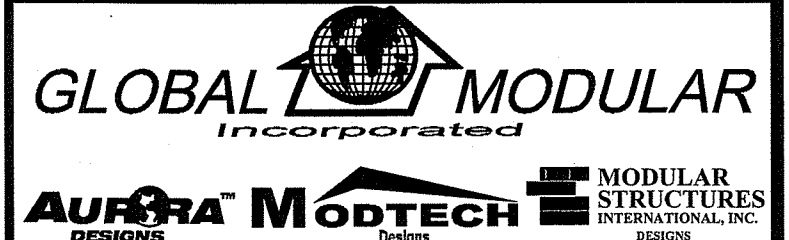
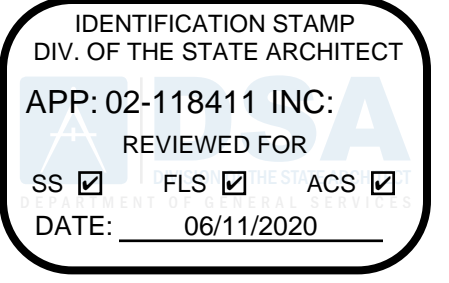
TEXT DESCRIPTION: CBC SECTION 11B-703.6.3, PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTION SHALL COMPLY WITH SECTION 11B-703.2, 11B-703.3, AND 11B-703.4

- INTERNATIONAL SYMBOL OF ACCESSIBILITY: CBC SECTION 11B-703.7.2.1, THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 11B-703.7.2.1. THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE COLOR NO. 15090 FEDERAL STANDARD 595C

EXCEPTION: THE APPROPRIATE ENFORCEMENT AGENCY MAY APPROVE OTHER COLORS TO COMPLEMENT DECOR OR UNIQUE DESIGNS. THE SYMBOL CONTRAST SHALL BE LIGHT ON DARK OR DARK ON LIGHT

FINISH AND CONTRAST: SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. SYMBOLS OR ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND

PROJECT SPECIFIC STATE AGENCY APPROVAL



CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION 1200 AIRPORT DRIVE CHOWCHILLA, CA 93610 PHONE: (559) 665-5800 FAX: (559) 665-5700 WEBSITE: WWW.GDMV.NET

SOUTHERN CALIFORNIA DIVISION 1600 CHICAGO AVE., SUITE #M-21 RIVERSIDE, CA 92507 PHONE: (951) 686-3633 FAX: (951) 686-3662 WEBSITE: WWW.GDMV.NET

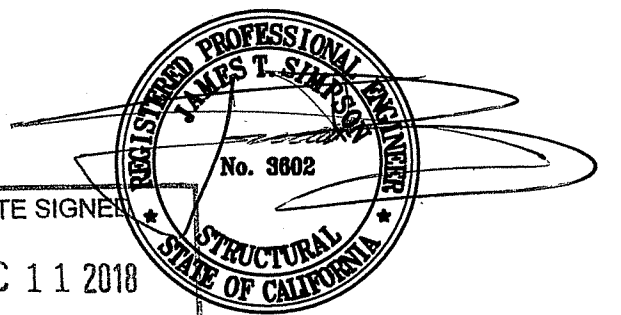
THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

#### SIGNAGE SPECIFICATIONS AND ACCESSIBILITY

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

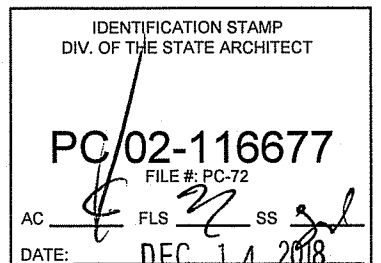


DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED



REVISIONS

△	
△	
△	
△	
△	
△	
△	

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER

A0.4

GLOBAL MODULAR Incorporated

450 COMMERCE AVE  
ATWATER, CA 95301  
PHONE (209) 676-8029  
FAX (209) 676-8067

DSA A#: \_\_\_\_\_ FLOOR LIVE LOAD: \_\_\_\_\_

CBC EDITION: \_\_\_\_\_ ROOF LIVE LOAD: \_\_\_\_\_

MFG DATE: \_\_\_\_\_ WIND LOAD: \_\_\_\_\_

SEISMIC DESIGN PARAMETER: \_\_\_\_\_ ROOF SNOW LOAD: \_\_\_\_\_

DESIGN CLIMATE ZONE(S): \_\_\_\_\_ EXPOSURE CATEGORY: \_\_\_\_\_

SERIAL NUMBER: \_\_\_\_\_

BUILDING ID TAG  
SCALE: TAG



CALGREEN VOC LIMITS								
ARCHITECTURAL COATINGS VOC LIMITS			ADHESIVES VOC LIMITS			SEALANT VOC LIMITS		
COATING CATEGORY	CURRENT VOC LIMIT	CAL GREEN CODE REFERENCE	ADHESIVES (ARCHITECTURAL APPLICATIONS)	CURRENT VOC LIMIT	CAL GREEN CODE REFERENCE	SEALANTS	CURRENT VOC LIMIT	CAL GREEN CODE REFERENCE
FLAT COATINGS	50	TABLE 5.504.4.3	INDOOR CARPET ADHESIVES	50	TABLE 5.504.4.1	ARCHITECTURAL	250	TABLE 5.504.4.2
NONFLAT COATINGS	100	TABLE 5.504.4.3	CARPET PAD ADHESIVES	50	TABLE 5.504.4.1	MARINE DECK	760	TABLE 5.504.4.2
NONFLAT HIGH GLOSS COATINGS	150	TABLE 5.504.4.3	OUTDOOR CARPET ADHESIVES	150	TABLE 5.504.4.1	NONMEMBRANE ROOF	300	TABLE 5.504.4.2
SPECIALTY COATINGS			WOOD FLOORING ADHESIVES	100	TABLE 5.504.4.1	ROADWAY	250	TABLE 5.504.4.2
ALUMINUM ROOF COATINGS	400	TABLE 5.504.4.3	RUBBER FLOORING ADHESIVES	60	TABLE 5.504.4.1	SINGLE PLY ROOF MEMBRANE	450	TABLE 5.504.4.2
BASEMENT SPECIALTY COATINGS	400	TABLE 5.504.4.3	SUBFLOOR FLOOR ADHESIVES	50	TABLE 5.504.4.1	OTHER	420	TABLE 5.504.4.2
BITUMINOUS ROOF COATINGS	50	TABLE 5.504.4.3	CERAMIC TILE ADHESIVES	65	TABLE 5.504.4.1	SEALANT PRIMERS		
BITUMINOUS ROOF PRIMERS	350	TABLE 5.504.4.3	VCT AND ASPHALT TILE ADHESIVES	50	TABLE 5.504.4.1	ARCHITECTURAL NONPOROUS POROUS	250 775	TABLE 5.504.4.2
BOND BREAKERS	350	TABLE 5.504.4.3	DRYWALL AND PANEL ADHESIVES	50	TABLE 5.504.4.1	MODIFIED BITUMINOUS	500	TABLE 5.504.4.2
CONCRETE CURING COMPOUNDS	350	TABLE 5.504.4.3	COVE BASE ADHESIVES	50	TABLE 5.504.4.1	MARINE DECK	760	TABLE 5.504.4.2
CONCRETE/MASONRY SEALERS	100	TABLE 5.504.4.3	STRUCTURAL GLAZING ADHESIVES	100	TABLE 5.504.4.1	OTHER	750	TABLE 5.504.4.2
DRIVEWAY SEALERS	50	TABLE 5.504.4.3	SINGLE PLY ROOF MEMBRANE ADHESIVES	250	TABLE 5.504.4.1			
DRY FOG COATINGS	150	TABLE 5.504.4.3	OTHER ADHESIVES NOT SPECIFICALLY LISTED	50	TABLE 5.504.4.1	FORMALDEHYDE VOC LIMITS		
FAUX FINISHING COATINGS	350	TABLE 5.504.4.3	SPECIALTY APPLICATIONS			PRODUCTS	CURRENT LIMITS	CAL GREEN CODE REFERENCE
FIRE RESISTIVE COATINGS	350	TABLE 5.504.4.3	PVC WELDING	510	TABLE 5.504.4.1	HARDWOOD PLYWOOD VENEER CORE	0.05	TABLE 5.504.4.5
FLOOR COATINGS	100	TABLE 5.504.4.3	CPVC WELDING	490	TABLE 5.504.4.1	HARDWOOD PLYWOOD COMPOSITE CORE	0.05	TABLE 5.504.4.5
FORM RELEASE COMPOUNDS	250	TABLE 5.504.4.3	ABS WELDING	325	TABLE 5.504.4.1	PARTICLEBOARD	0.09	TABLE 5.504.4.5
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500	TABLE 5.504.4.3	PLASTIC CEMENT WELDING	250	TABLE 5.504.4.1	MEDIUM DENSITY FIBERBOARD	0.11	TABLE 5.504.4.5
HIGH TEMPERATURE COATINGS	420	TABLE 5.504.4.3	ADHESIVE PRIMER FOR PLASTIC	550	TABLE 5.504.4.1	THIN MEDIUM DENSITY FIBERBOARD	0.13	TABLE 5.504.4.5
INDUSTRIAL MAINTENANCE COATING	250	TABLE 5.504.4.3	CONTACT ADHESIVE	80	TABLE 5.504.4.1			
LOW SOLIDS COATINGS	120	TABLE 5.504.4.3	SPECIAL PURPOSE CONTACT ADHESIVE	250	TABLE 5.504.4.1			
MAGSENET CEMENT COATINGS	450	TABLE 5.504.4.3	STRUCTURAL WOOD MEMBER ADHESIVE	140	TABLE 5.504.4.1			
MASTIC TEXTURE COATINGS	100	TABLE 5.504.4.3	TOP AND TRIM ADHESIVE	250	TABLE 5.504.4.1			
METALLIC PIGMENTED COATINGS	500	TABLE 5.504.4.3						
MULTICOLOR COATINGS	250	TABLE 5.504.4.3	SUBSTRATE SPECIFIC APPLICATIONS					
PRETREATMENT WASH PRIMERS	420	TABLE 5.504.4.3	METAL TO METAL	30	TABLE 5.504.4.1			
PRIMERS, SEALERS AND UNDERCOATS	100	TABLE 5.504.4.3	PLASTIC FOAMS	50	TABLE 5.504.4.1			
REACTIVE PENETRATING SEALERS	350	TABLE 5.504.4.3	POROUS MATERIALS (EXCEPT WOOD)	50	TABLE 5.504.4.1			
RECYCLED COATINGS	250	TABLE 5.504.4.3	WOOD	30	TABLE 5.504.4.1			
ROOF COATINGS	50	TABLE 5.504.4.3	FIBERGLASS	80	TABLE 5.504.4.1			
RUST PREVENTATIVE COATINGS	250	TABLE 5.504.4.3						
SHELLACS CLEAR OPAQUE	730 550	TABLE 5.504.4.3						
SPECIALTY PRIMERS, SEALERS AND UNDERCOATS	100	TABLE 5.504.4.3						
STAINS	250	TABLE 5.504.4.3						
STONE CONSOLIDANTS	450	TABLE 5.504.4.3						
SWIMMING POOL COATINGS	340	TABLE 5.504.4.3						
TRAFFIC MARKING COATINGS	100	TABLE 5.504.4.3						
TUB AND TILE REFINISH COATINGS	420	TABLE 5.504.4.3						
WATERPROOFING MEMBRANE	250	TABLE 5.504.4.3						
WOOD COATINGS	275	TABLE 5.504.4.3						
WOOD PRESERVATIVES	350	TABLE 5.504.4.3						
ZINC RICH PRIMERS	340	TABLE 5.504.4.3						

GENERAL NOTES

1. ALL MECHANICAL EQUIPMENT WHICH REQUIRES A FILTER SHALL NOT BE OPERATED WITHOUT A FILTER IN PLACE
2. ALL FILTERS SHALL HAVE A MERV RATING OF 8 OR GREATER.
3. PER SECTION 5.404.3 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION SHALL BE PERFORMED AT THE END OF EACH WORK DAY AND DURING SHIPMENT OF RELOCATABLE BUILDING. ALL EXPOSED DUCTWORK AND EQUIPMENT SHALL BE COVERED
4. WHEN REQUIRED, EXTERIOR WINDOWS SHALL COMPLY WITH SECTION 5.404.4.1 FOR EXTERIOR NOISE TRANSMISSION. MIN STC 40 RATING. SEE SHEET A0.3 FOR REFERENCE.
5. PER SECTION 5.504.4.6 FOR 80% OF FLOOR AREA RECEIVING RESILIENT FLOORING, INSTALLED RESILIENT FLOORING SHALL MEET AT LEAST ONE OF THE FOLLOWING CONDITIONS:

1. CERTIFIED UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSORE PROGRAM.

2. COMPLIANT WITH THE VOC-EMISSION LIMITS AND TESTING REQUIREMENTS SPECIFIED IN THE CALFORNIA DEPARTMENT OF PUBLIC HEALTH'S 2010 STANDARD METHOD FOR THE TESTING AND EVALUATION CHAMBERS, VERSION 1.1, FEBRUARY 2010.

3. COMPLIANT WITH THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS CALIFORNIA (CA-CHPS) CRITERIA INTERPRETATION FOR EQ 7.0 AND EQ 7.1 (FORMERLY EQ 2.2) DATED JULY 2012 AND LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE.

4. PRODUCTS CERTIFIED UNDER UL GREENGUARD GOLD (FORMERLY THE GREENGUARD CHILDREN'S AND SCHOOLS PROGRAM)
6. PER SECTION 5.504.4.4.6.1 DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT THE RESILIENT FLOORING MATERIALS MEET THE POLLUTANT EMISSION LIMITS

ACOUSTICAL CONTROL

WHEN THE PC (OR BLDG) IS SITE ADAPTED, THE BUILDING AND SITE FEATURES NEED TO COMPLY WITH THE CALGREEN CODE SECTION 5.507.4 FOR THE SPECIFIC SITE LOCATION, AND WHEN THE NEW PC (OR BLDG) IS PLACED ADJACENT TO ANOTHER EXISTING PC BUILDING (WITH ZERO SEPARATION), THE ADJOINING WALL SECTION FOR INTERIOR SOUND TRANSMISSION MUST MEET THE MINIMUM REQUIREMENT OF A STC RATING OF 40 PER SECTION 5.507.4.3

LOUDNESS COMPARISON CHART		
COMMON OUTDOOR ACTIVITIES	NOISE LEVEL	COMMON INDOOR ACTIVITIES
JET FLY OVER AT 1,000 FT	110	ROCK BAND
CAS LAWN MOWER AT 3 FT	100	
	90	FOOD BLENDER AT 3 FT
	80	GARBAGE DISPOSAL AT 3 FT
DIESEL TRUCK AT 50 FT AT 50 MPH		
NOISY URBAN AREA, DAYTIME		
	70	VACUUM CLEANER AT 10 FT
GAS LAWN MOWER AT 100 FT		NORMAL SPEECH AT 3 FT
COMMERCIAL AREA		
	60	LARGE BUSINESS OFFICE
HEAVY TRAFFIC AT 300 FT	50	DISHWASHER NEXT ROOM
QUIET URBAN, DAYTIME		
QUIET URBAN, NIGHT TIME	40	THEATRE
QUIET SUBURBAN, NIGHT TIME		LARGE CONFERENCE ROOM BACKGROUND
QUIET RURAL, NIGHT TIME		LIBRARY
	30	BEDROOM AT NIGHT
		CONCERT HALL, BACKGROUND
	20	BROADCAST / RECORDING STUDIO
	10	
LOWEST THRESHOLD OF HUMAN HEARING	0	LOWEST THRESHOLD OF HUMAN HEARING

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

GLOBAL MODULAR  
Incorporated

AURORA MODTECH  
DESIGNS

MODULAR STRUCTURES  
INTERNATIONAL, INC.  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 686-5800  
FAX: (559) 686-5700  
WEBSITE: WWW.GDMV.NET

SOUTHERN CALIFORNIA DIVISON  
1660 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3662  
WEBSITE: WWW.GDMV.NET

THIS DRAWING AND THE MATERIAL CONTAINED THERE-IN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

CALGREEN REQUIREMENTS

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

PROFESSIONAL SEAL  
JAMES T. SMITH  
No. 3802  
STRUCTURAL  
STATE OF CALIFORNIA

DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
FILE # PC-12  
PC 02-116677  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2018

REVISIONS

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER  
A0.6



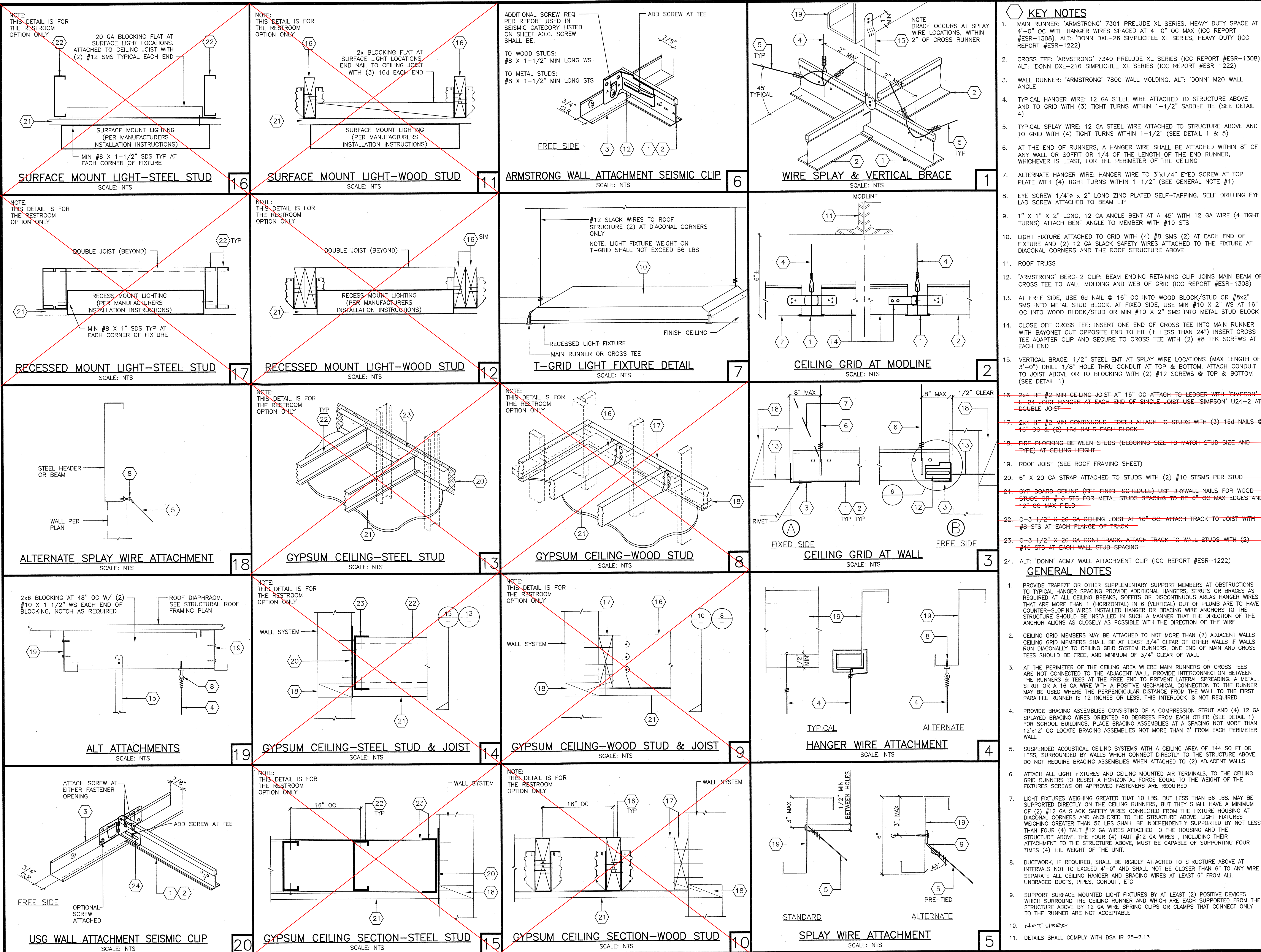
# A0.8



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

## A1.2





PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

GLOBAL MODULAR  
Incorporated

AURORA MODTECH  
DESIGNS

MODULAR STRUCTURES  
INTERNATIONAL, INC.  
DESIGNS

CONTRACTORS LICENSE #B37357

NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 866-5800  
FAX: (559) 866-5700  
WEBSITE: WWW.GDMV.NET

SOUTHERN CALIFORNIA DIVISION  
1680 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 886-3633  
FAX: (951) 886-3682  
WEBSITE: WWW.GDMV.NET

THIS DRAWING AND THE MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE SPOOLED OR DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

REFLECTED CEILING DETAILS

MFR. STRUCTURAL ENGINEER OF RECORD ON PG

DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

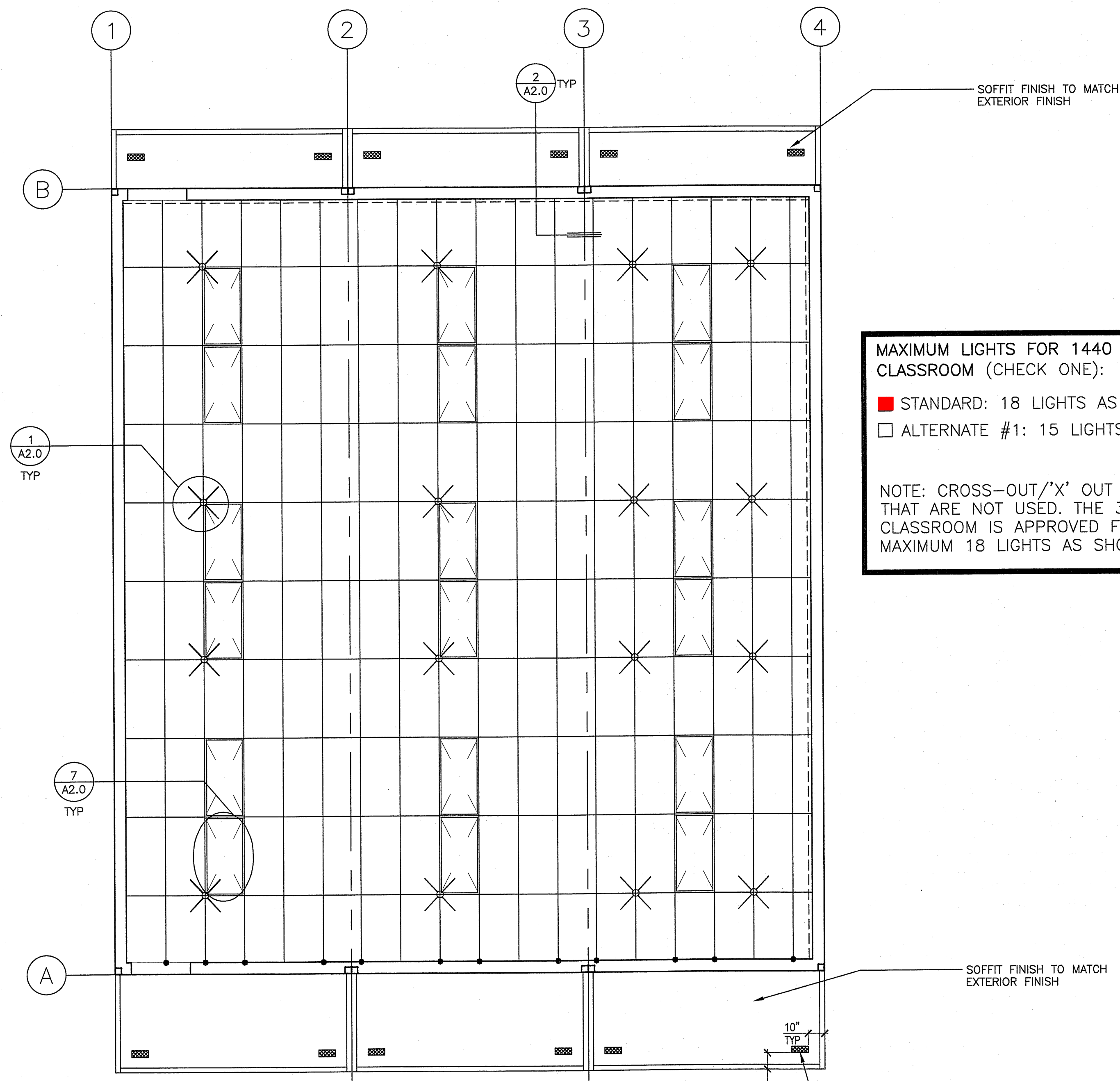
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # 812  
AC 4 FLS 23 SS 2  
DATE: DEC 14 2018

REVISIONS

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER

A2.0

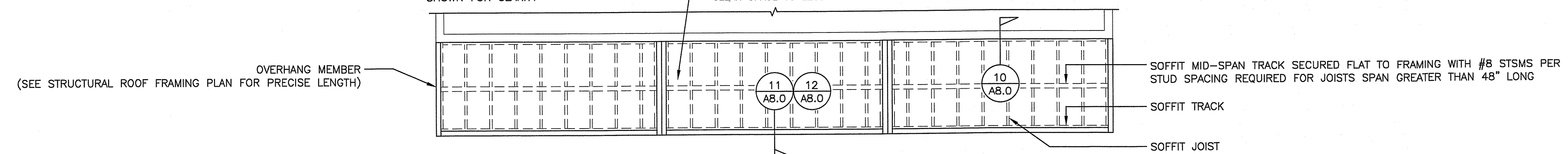




REFLECTED CEILING PLAN  
SCALE: 1/4" = 1'-0"

NOTE: ROOF JOIST NOT SHOWN FOR CLARITY

WHEN SOFFIT AREA IS 50 SF OR GREATER, 6" DEEP OR GREATER & COMBUSTIBLE PROVIDE SAFING INSULATION THROUGH-OUT OR VERTICAL APPROVED MATERIAL ATTACHED TO JOIST PER SECTION 718.2.1 TO REDUCE THE OPEN CLEAR SPACE TO LESS THAN 6"



OPTIONAL ENCLOSE OVERHANG SOFFIT FRAMING

LEGEND

- SUPPLY AIR DIFFUSERS NOT SHOWN FOR CLARITY (SEE MECHANICAL PLAN)
- 2'x4' FLUORESCENT DROP-IN FIXTURE (SEE ELECTRICAL PLAN)
- 4-WAY SPLAY WIRE SYSTEM
- T-GRID CEILING
- INDICATES FREE SIDE ALL OTHER SIDES SHALL BE FIXED (SEE SHEET 3/A2.0 OR 20/A2.0)
- INDICATES MAIN RUNNER LOCATIONS
- LOCATION OF SOFFIT VENT FOR WOOD SIDING APPLICATION SHOWN WHEN ENCLOSED SOFFIT OPTION USED. STUCCO APPLICATION NOT SHOWN FOR CLARITY. SEE #9/A8.0 OR #9/A8.3

MAXIMUM LIGHTS FOR 1440 SF CLASSROOM (CHECK ONE):

☒ STANDARD: 18 LIGHTS AS SHOWN

☐ ALTERNATE #1: 15 LIGHTS

NOTE: CROSS-OUT/'X' OUT LIGHTS THAT ARE NOT USED. THE 36X40 CLASSROOM IS APPROVED FOR A MAXIMUM 18 LIGHTS AS SHOWN

PROJECT SPECIFIC (CHECK ONE):

☒ STANDARD DESIGN AS SHOWN

☐ SOLATUBE OPTION. REFERENCE SHEET A11.0

FOR NOTES SEE SHEET A2.0

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

GLOBAL MODULAR  
Incorporated  
AUFRA MODTECH MODULAR STRUCTURES INTERNATIONAL, INC.  
DESIGNS  
CONTRACTORS LICENSE #837357  
NORTHERN CALIFORNIA DIVISON 1200 AIRPORT DRIVE CHOWCHILLA, CA 93610  
PHONE: (559) 685-5800  
FAX: (559) 685-5700  
WEBSITE: WWW.GDM.NET  
SOUTHERN CALIFORNIA DIVISON 1660 CHICAGO AVE., SUITE #M-21 RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3682  
WEBSITE: WWW.GDM.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:  
REFLECTED CEILING PLAN  
36'X40'

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

MFR-PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # B672  
DATE: DEC 14 2018

REVISIONS

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER  
A2.2



GENERAL NOTES

1. SEE SHEET METAL AND FLASHING DETAILS SHEET A8.2 FOR MORE INFORMATION

KEY NOTES

- 26 GA STANDING SEAM GALVANIZED METAL ROOF
- 26 GA END FLASHING ATTACH WITH #8 STMS @ 24" OC
- 26 GA STARTER FLASHING ATTACH WITH #8 STMS @ 6" OC
- 26 GA GUTTER
- GUTTER END CAP ATTACH WITH (2) #8 STMS EACH SIDE
- SEALANT APPLIED TO FLASHING EDGE AND STANDING SEAM-#116 VULKEM POLYURETHANE SEALANT OR EQUAL MEETING FEDERAL SPECIFICATIONS TT-S-00230C, TYPE II, CLASS A
- 18 GA HOLD DOWN CLIP SECURED THROUGH PLYWOOD ROOF AND JOIST WITH (3) #8 STS SCREWS PER CLIP. CLIP SPACING SHALL BE 48" OC MAX AND 24" OC MAX AT OVERHANGS. SCREWS TO PENETRATE THROUGH JOIST W/ 3 EXPOSED THREADS.
- ROOF BEAM/HEADER (SEE STRUCTURAL ROOF FRAMING PLANS)
- USE #8 STS AT 24" OC MAX FOR MATERIAL THICKNESS UP TO 10 GA COVER SCREW W/#116 VULKEM POLYURETHANE SEALANT OR EQUAL MEETING FEDERAL SPECIFICATIONS TT-S-00230C, TYPE II, CLASS A
- 26 GA SIDE WALL FLASHING ATTACH WITH #8 STMS @ 24" OC
- 26 GA METAL ROOF CAP BETWEEN ADJACENT BUILDINGS
- ROOF OVERHANG MEMBER (SEE STRUCTURAL ROOF FRAMING PLANS)
- 1X STUCCO STOP ATTACHED WITH #8 STMS AT 36" OC
- USE #14 STS AT 24" OC MAX ALONG MODLINE TRUSS COVER SCREW W/#116 VULKEM POLYURETHANE SEALANT OR EQUAL MEETING FEDERAL SPECIFICATIONS TT-S-00230C, TYPE II, CLASS A
- ROOF TRUSS MEMBER (SEE ROOF TRUSS DETAIL SHEET)
- PLYWOOD FOR ROOF DIAPHRAGM (SEE STRUCTURAL ROOF FRAMING PLANS)
- ROOF PURLIN MEMBER (SEE STRUCTURAL ROOF FRAMING PLANS)
- 18 GA MIN X 3" MIN WIDE ANGLE (VERIFY WIDTH DIMENSION WITH HVAC UNIT). SEE DETAIL #C/MO.0 FOR LOCATION
- ROOF MOUNT HVAC UNIT
- PREFABRICATED METAL CURB
- DOUBLE ROOF JOIST
- (6) #12x2" HEX HEAD SDS AT EACH SIDE OF CURB THROUGH ROOF DECK

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
Incorporated  
**AURORA MODTECH**  
DESIGNS  
MODULAR STRUCTURES  
INTERNATIONAL, INC.  
DESIGNS  
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 665-5800  
FAX: (559) 665-5700  
WEBSITE: WWW.GDM.NET

SOUTHERN CALIFORNIA DIVISION  
1860 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 886-3633  
FAX: (951) 886-3662  
WEBSITE: WWW.GDM.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

ROOF DETAILS  
26 GAUGE METAL

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # PC-72  
DATE: DEC 14 2018

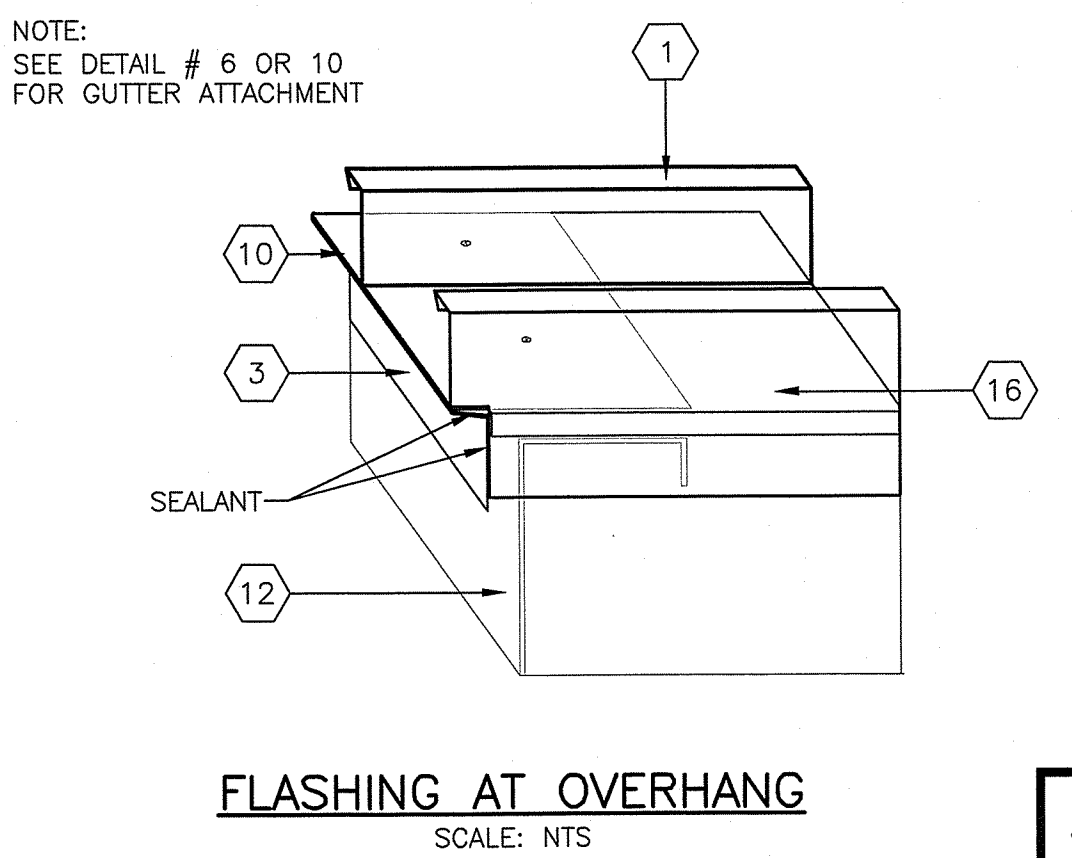
REVISIONS

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER

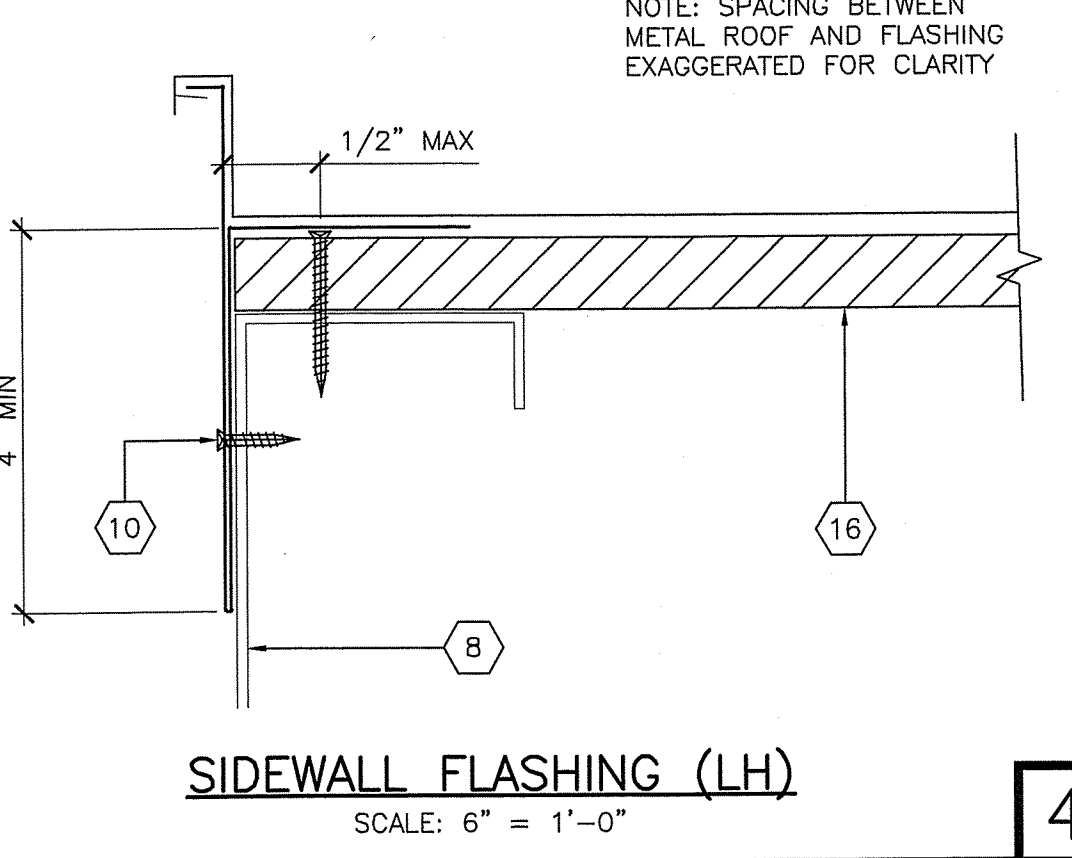
A3.3

26 GAUGE ROOF ISOMETRIC

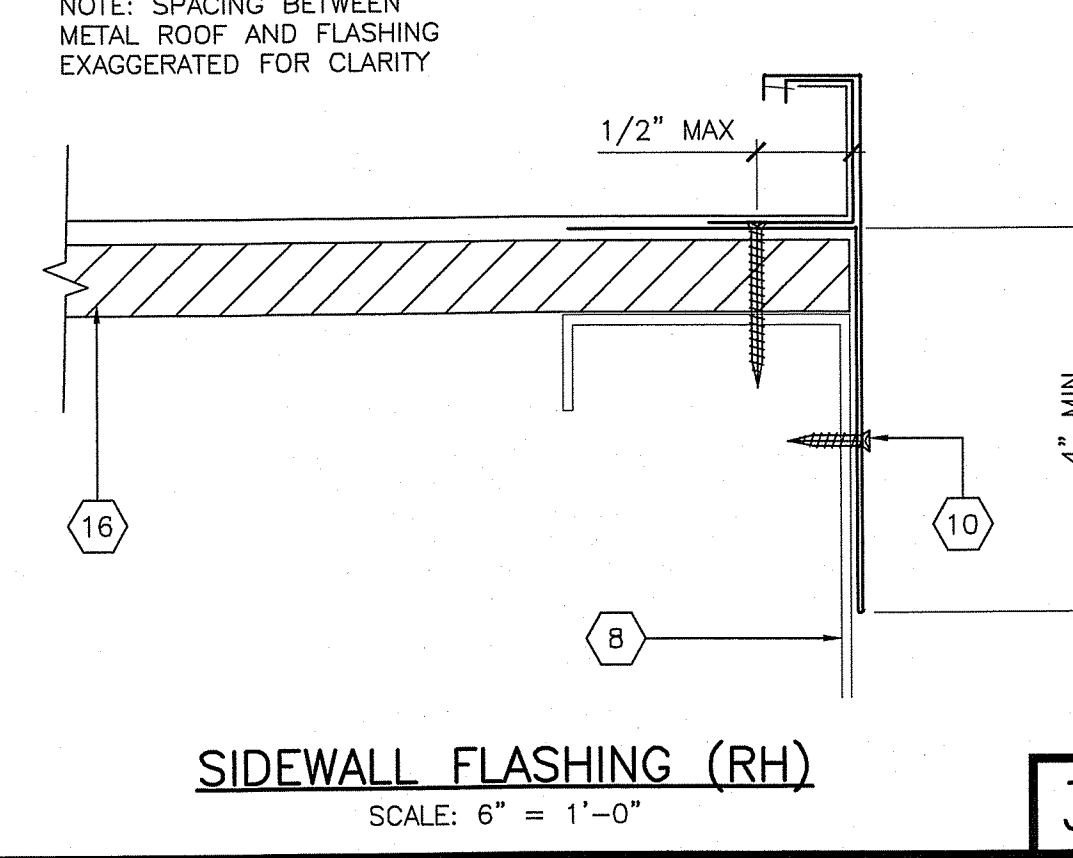
1



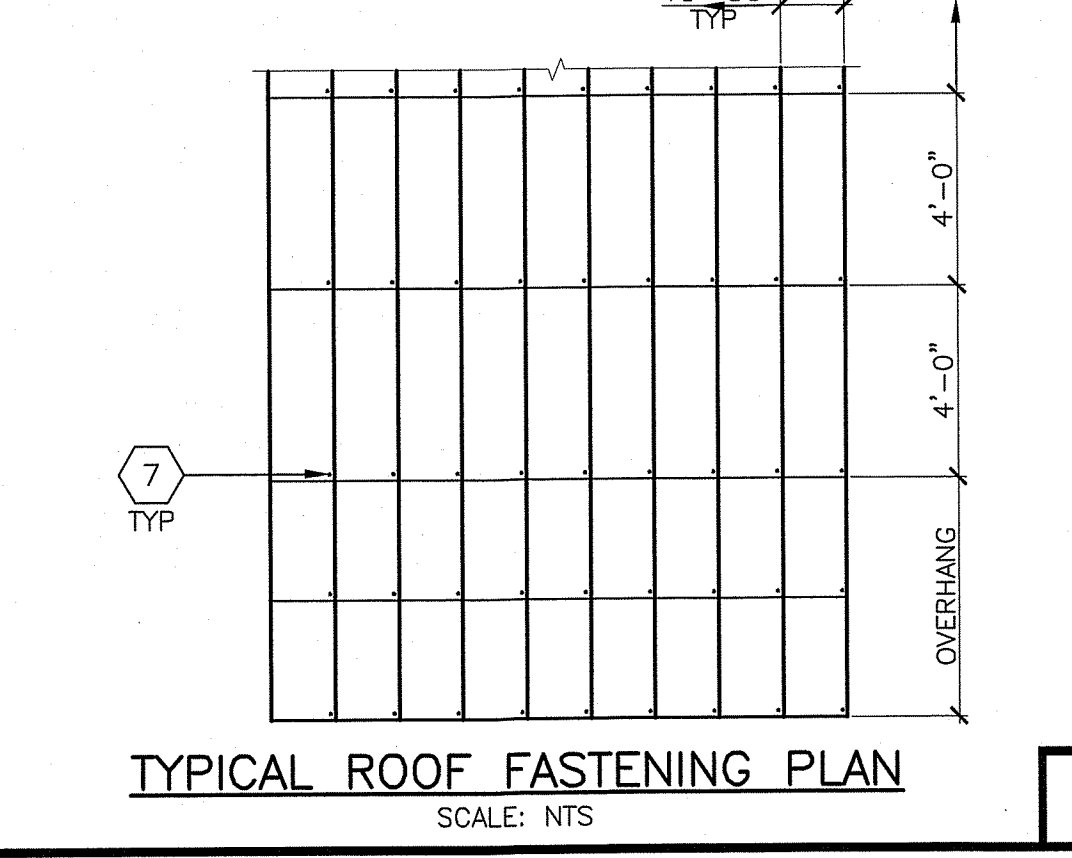
5



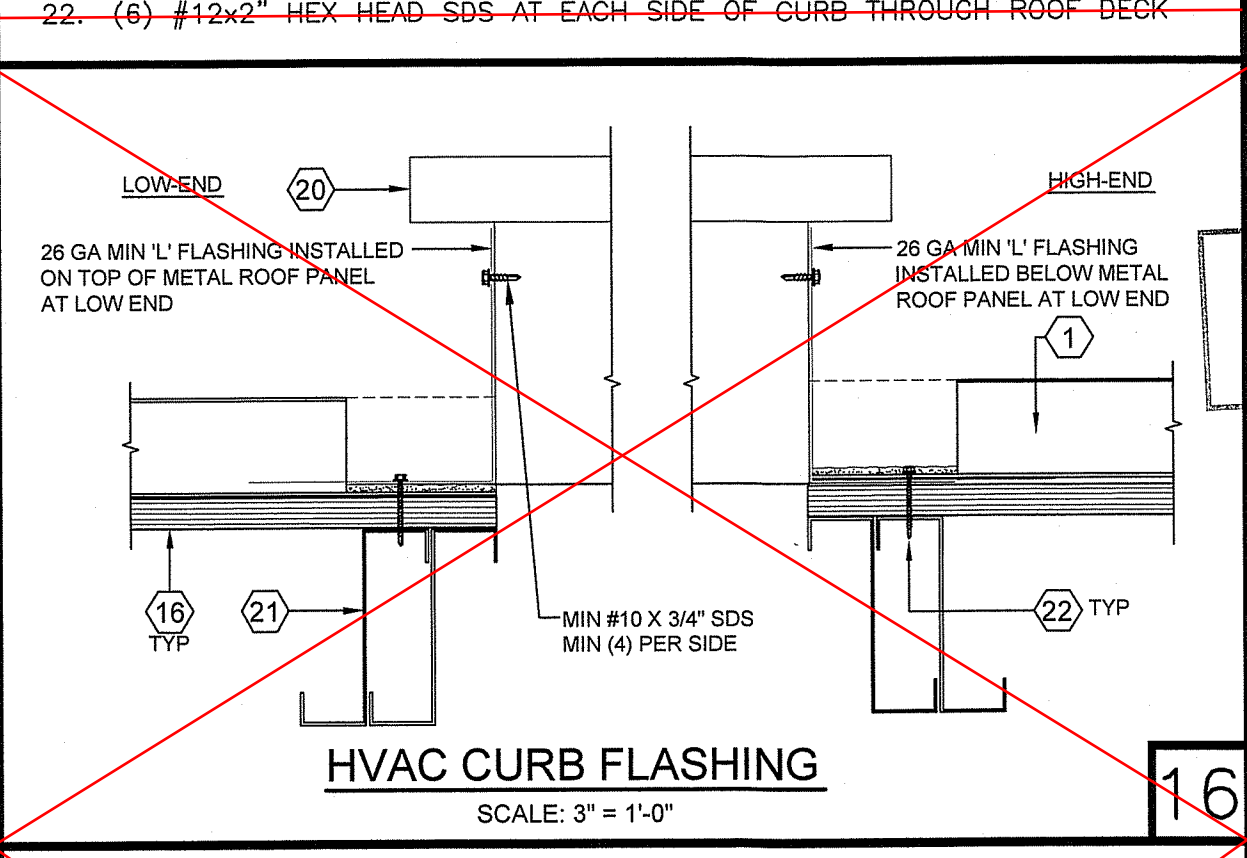
4



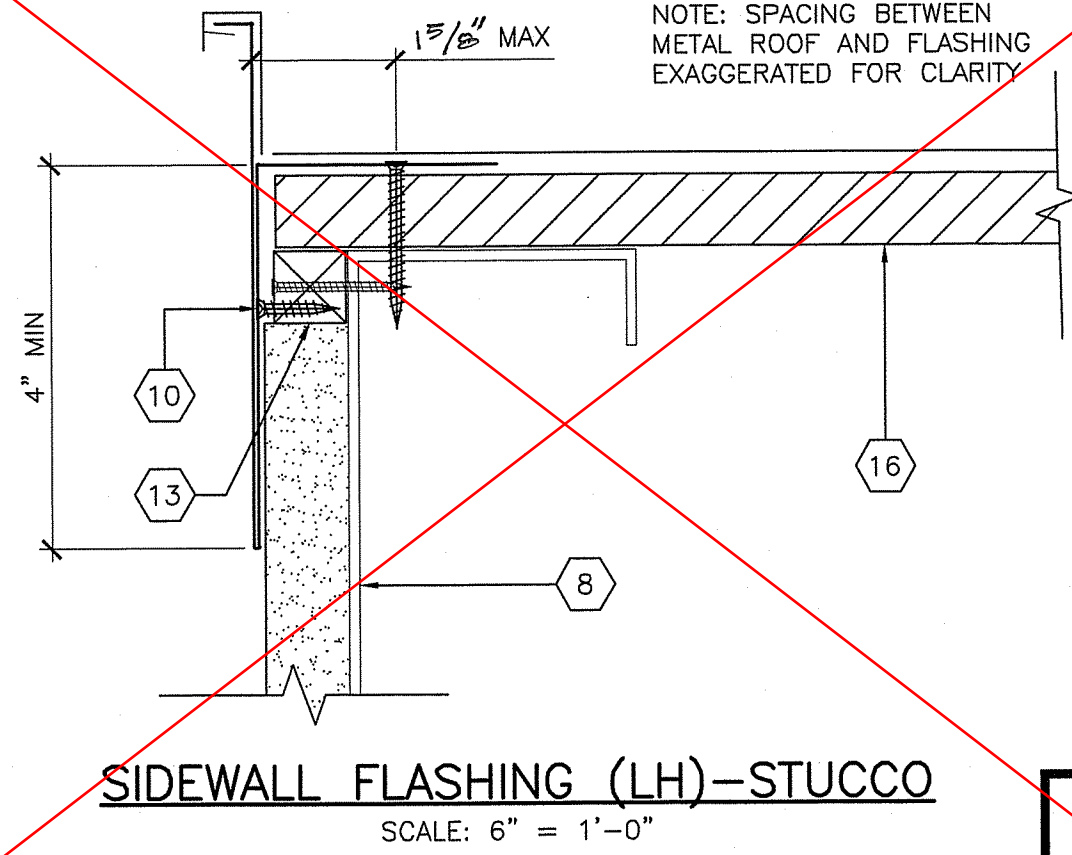
3



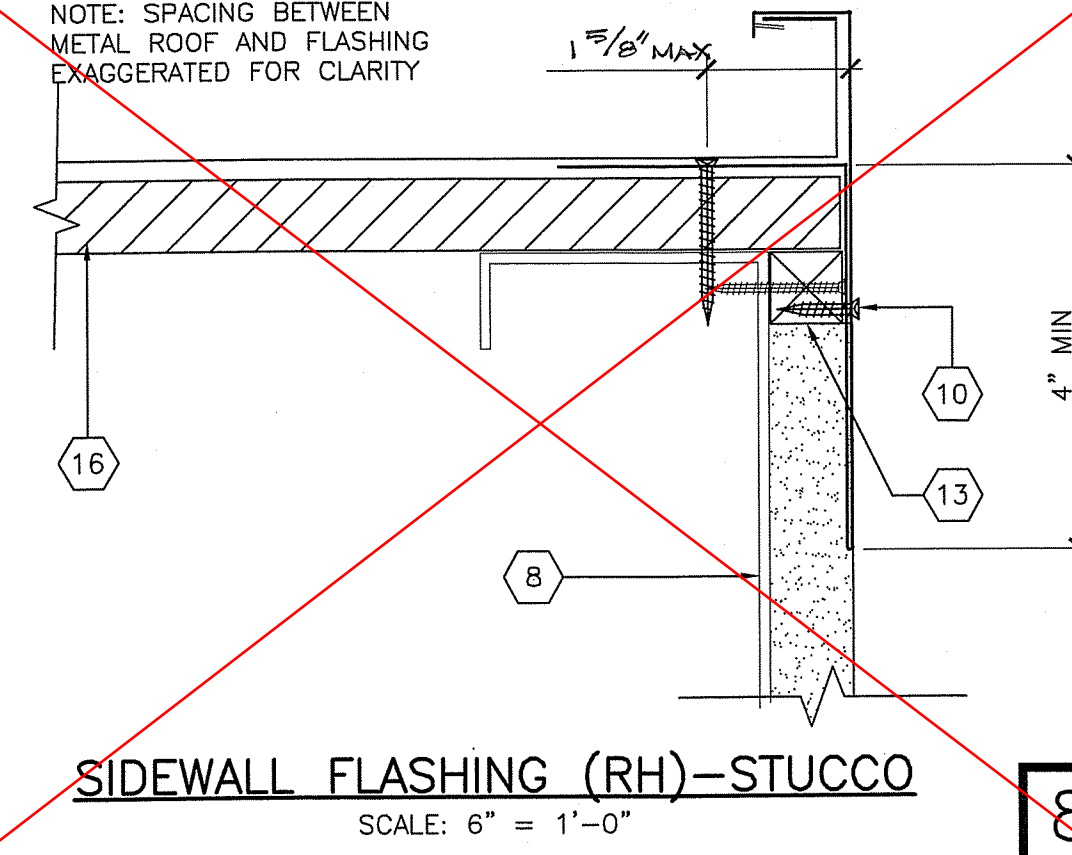
2



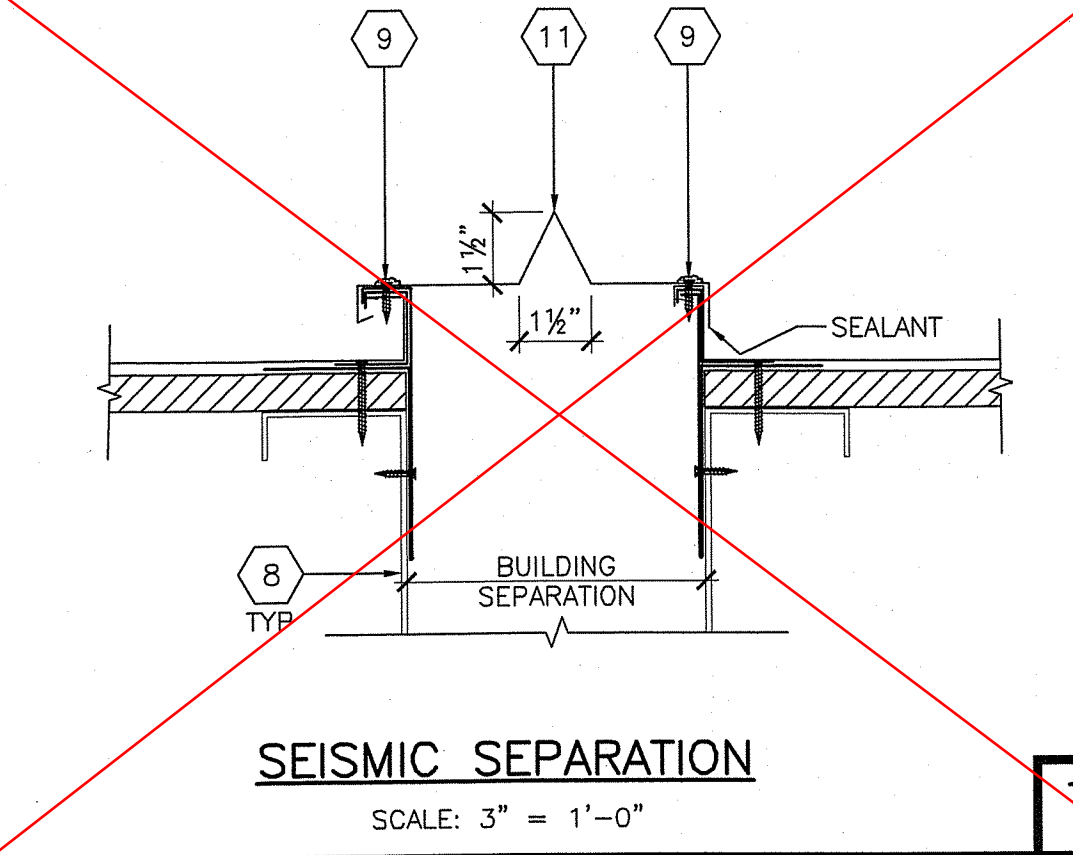
16



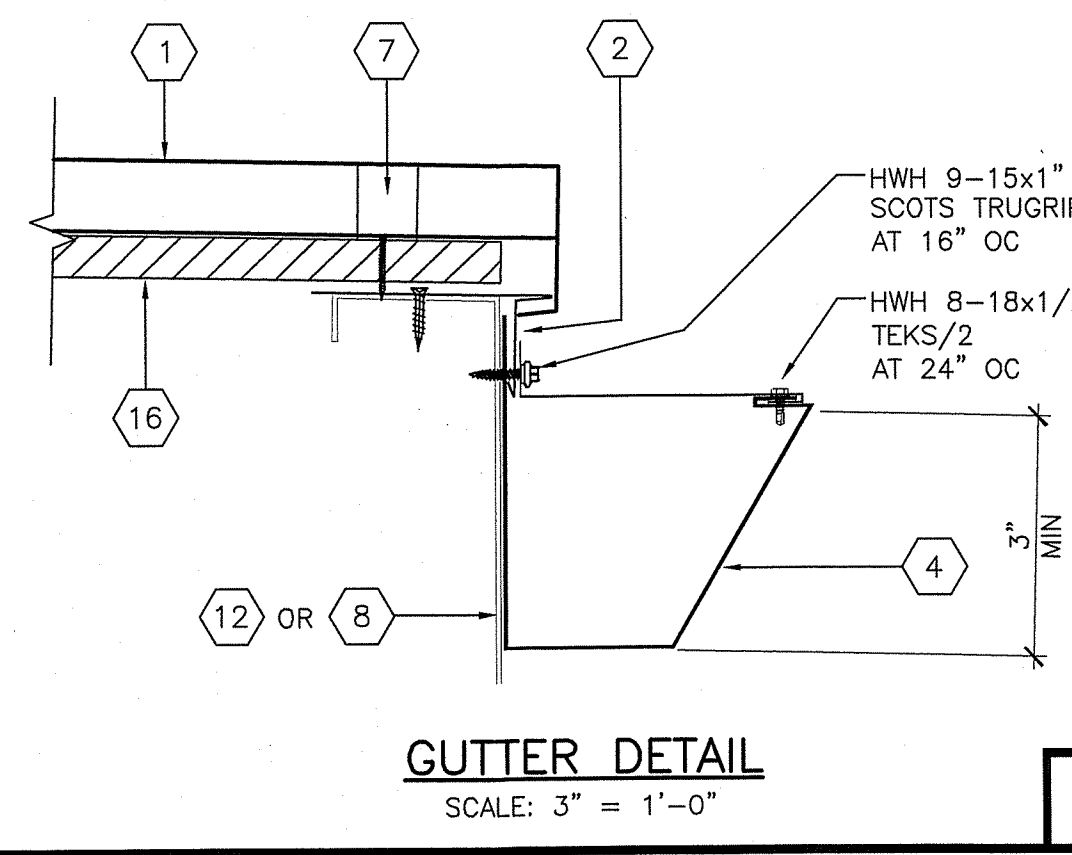
9



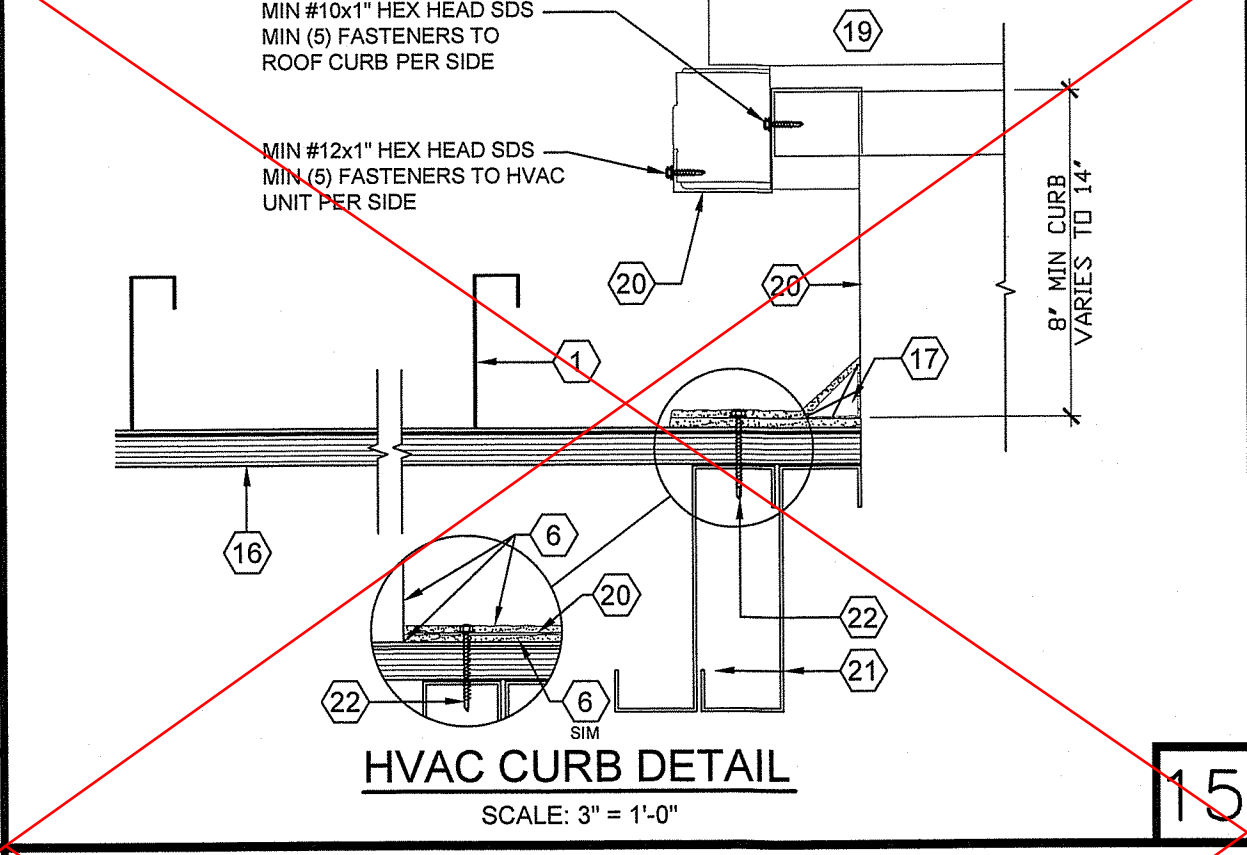
8



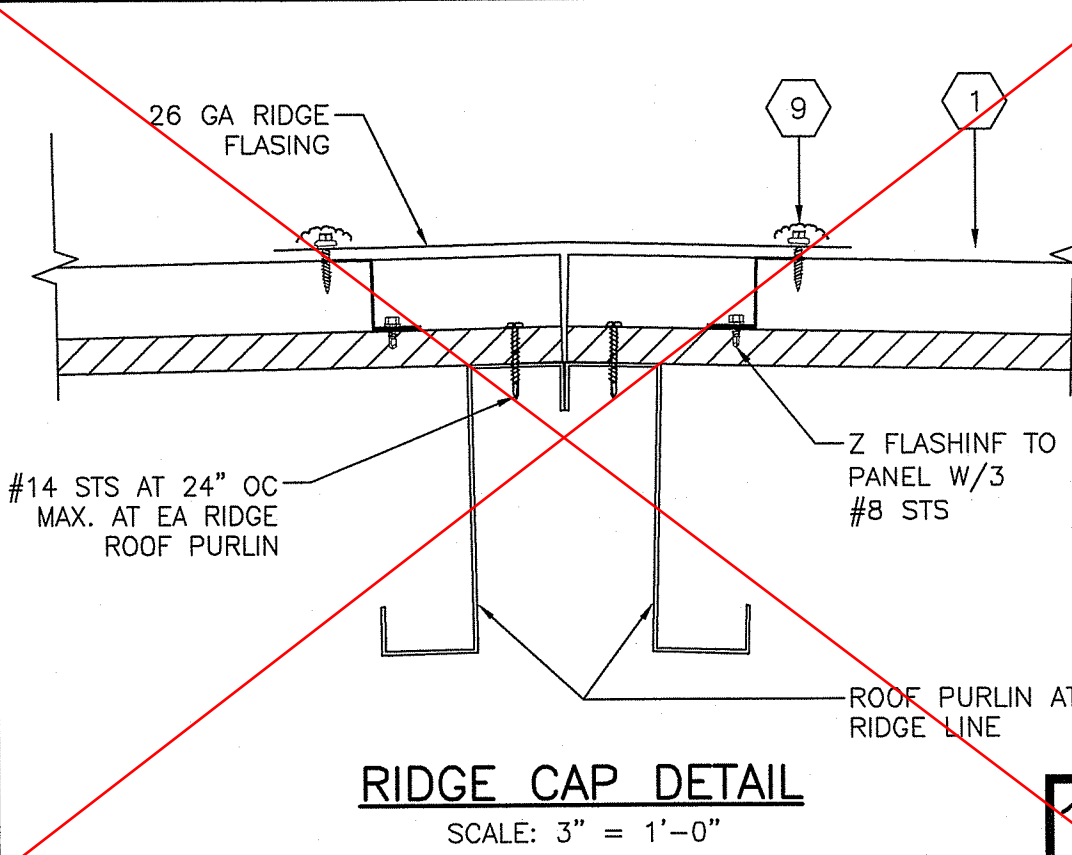
7



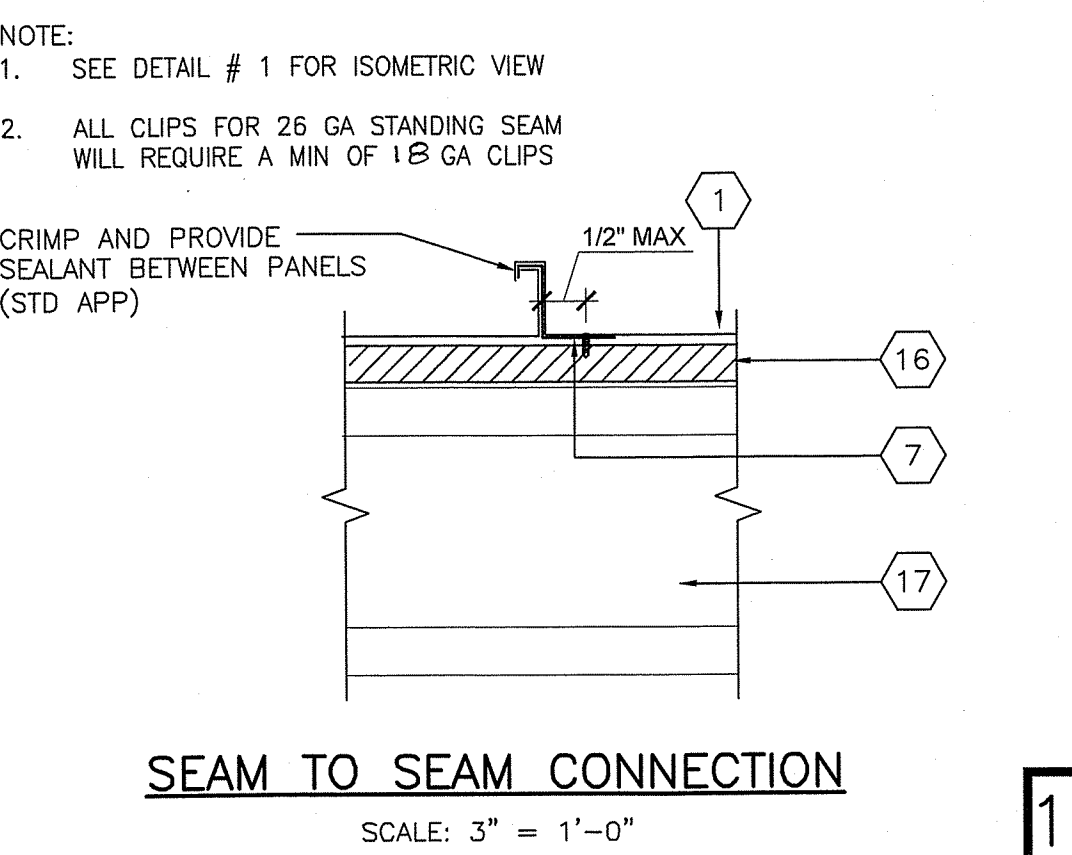
6



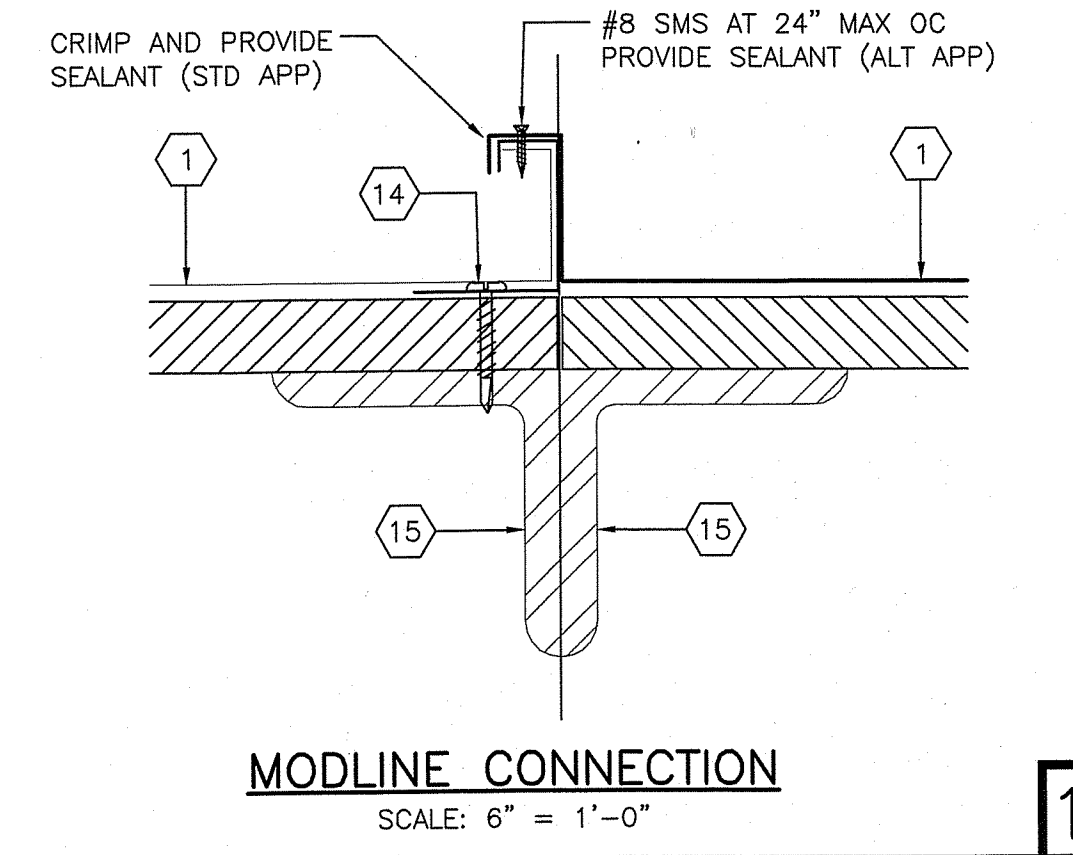
15



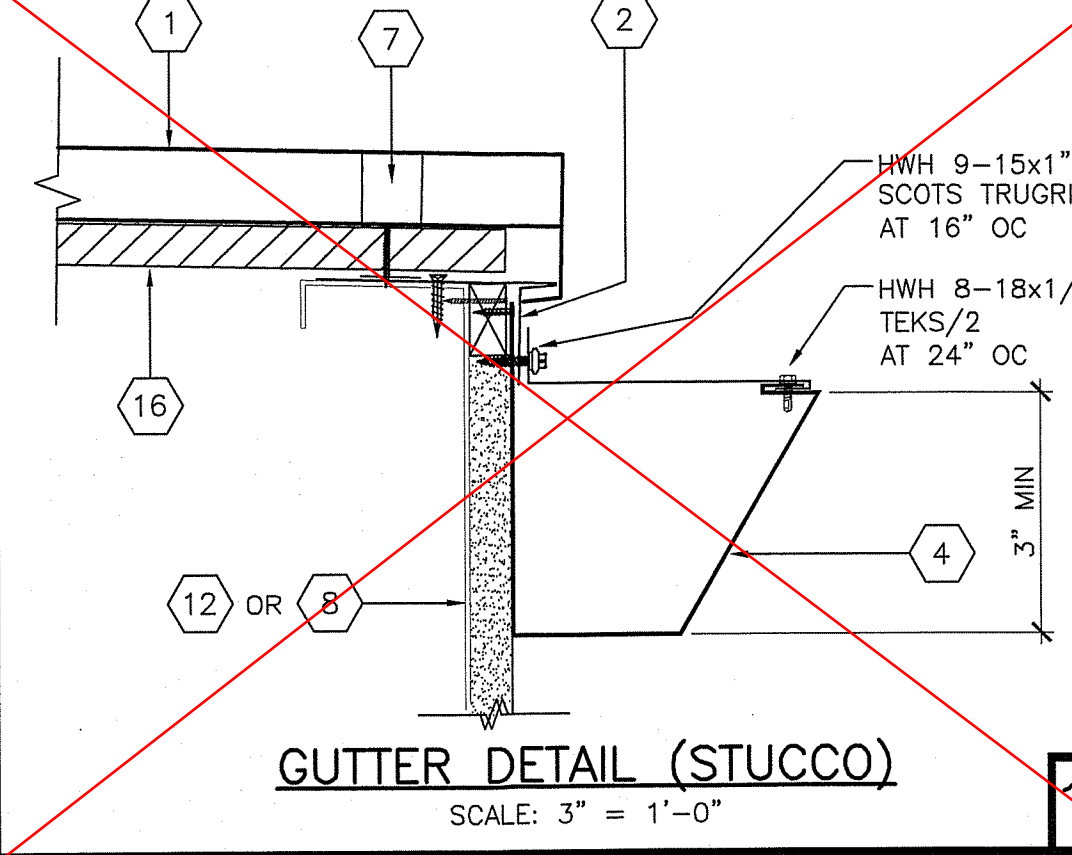
13



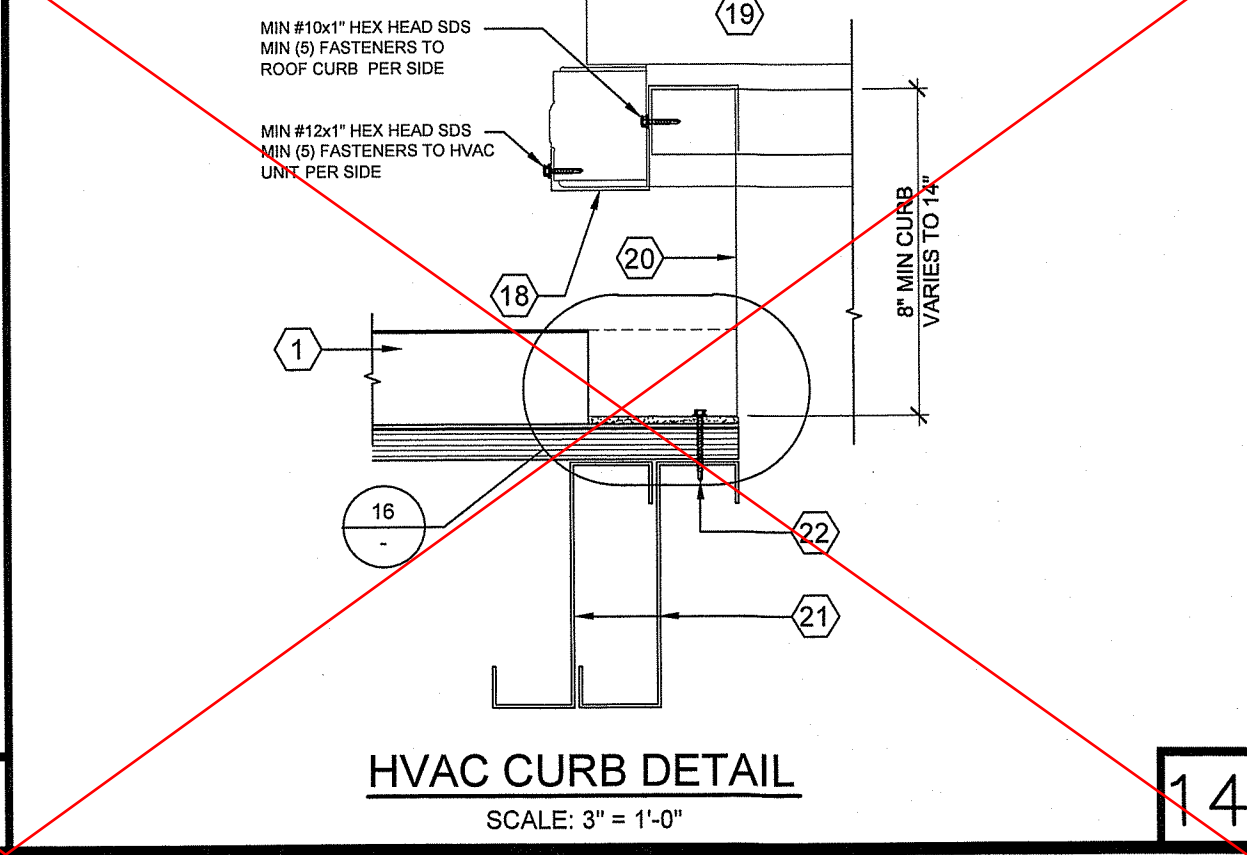
12



11



10



14



ROOF PLAN - DUAL SLOPE  
SCALE: 1/4" = 1'-0"

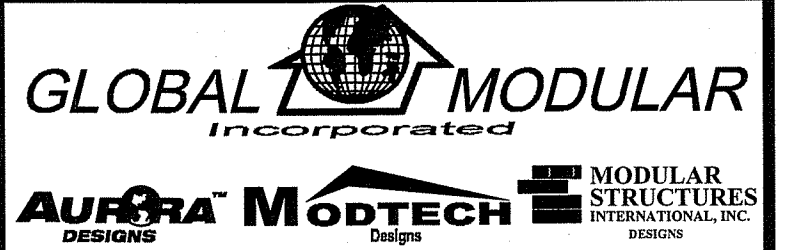
(26 GA STANDING SEAM)

ROOF PLAN - MONO SLOPE  
SCALE: 1/4" = 1'-0"

(26 GA STANDING SEAM)

## KEY NOTES

1. STEEL ROOF DECK: 26 GA ROLL FORMED STANDING SEAM SEE DETAIL #16/A8.2
2. OVERHANG MEMBER (SEE STRUCTURAL ROOF FRAMING PLAN FOR PRECISE LENGTH). PRIMARY BLDG ENTRANCES SHALL REQUIRE A 48" MIN DOOR PROTECTION. SEE FLOOR PLAN
3. GUTTER (SEE ROOF DETAILS SHEET FOR MORE INFORMATION)
4. DOWNSPOUT SEE DETAIL #17/A8.0 FOR MORE INFORMATION SEE EXTERIOR SHEET FOR EXACT LOCATION FOR BUILDINGS GREATER THAN 60'-0" SEE SHEET A0.5
5. RIDGE LINE
6. JOIST (SEE STRUCTURAL ROOF FRAMING PLANS)
7. 16 GA WIRE ATTACHED TO ROOF JOISTS FOR INSULATION SUPPORT AT 24" OC MAX
8. PLYWOOD FOR ROOF DIAPHRAGM (SEE STRUCTURAL ROOF FRAMING PLANS)



CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION	SOUTHERN CALIFORNIA DIVISION
1200 AIRPORT DRIVE	1660 CHICAGO AVE., SUITE #M-21
CHOWCHILLA, CA 93610	RIVERSIDE, CA 92507
PHONE: (559) 665-5800	PHONE: (951) 686-3633
FAX: (559) 665-6700	FAX: (951) 686-3662
WEBSITE: <a href="http://WWW.GDVI.NET">WWW.GDVI.NET</a>	WEBSITE: <a href="http://WWW.GDVI.NET">WWW.GDVI.NET</a>

THIS DRAWING AND THE MATERIAL CONTAINED THERE-IN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE EXPRESS KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

ROOF PLAN  
MONO ~~& DUAL~~ SLOPE  
26 GAUGE METAL

MFR. STRUCTURAL ENGINEER OF RECORD ON PC



DATE SIGNED  
DEC 11 2010

MFR, PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS  
REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT

PC 02-116677  
FILE #: PC-72

AC *JS* FLS *7* SS *gnd*  
DATE: DEC 14 2018

## REVISIONS

REVISIONS	
$\triangle_1$ -	
$\triangle_2$ -	
$\triangle_3$ -	
$\triangle_4$ -	
$\triangle_5$ -	
$\triangle_6$ -	
$\triangle_7$ -	
$\triangle_8$ -	

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00

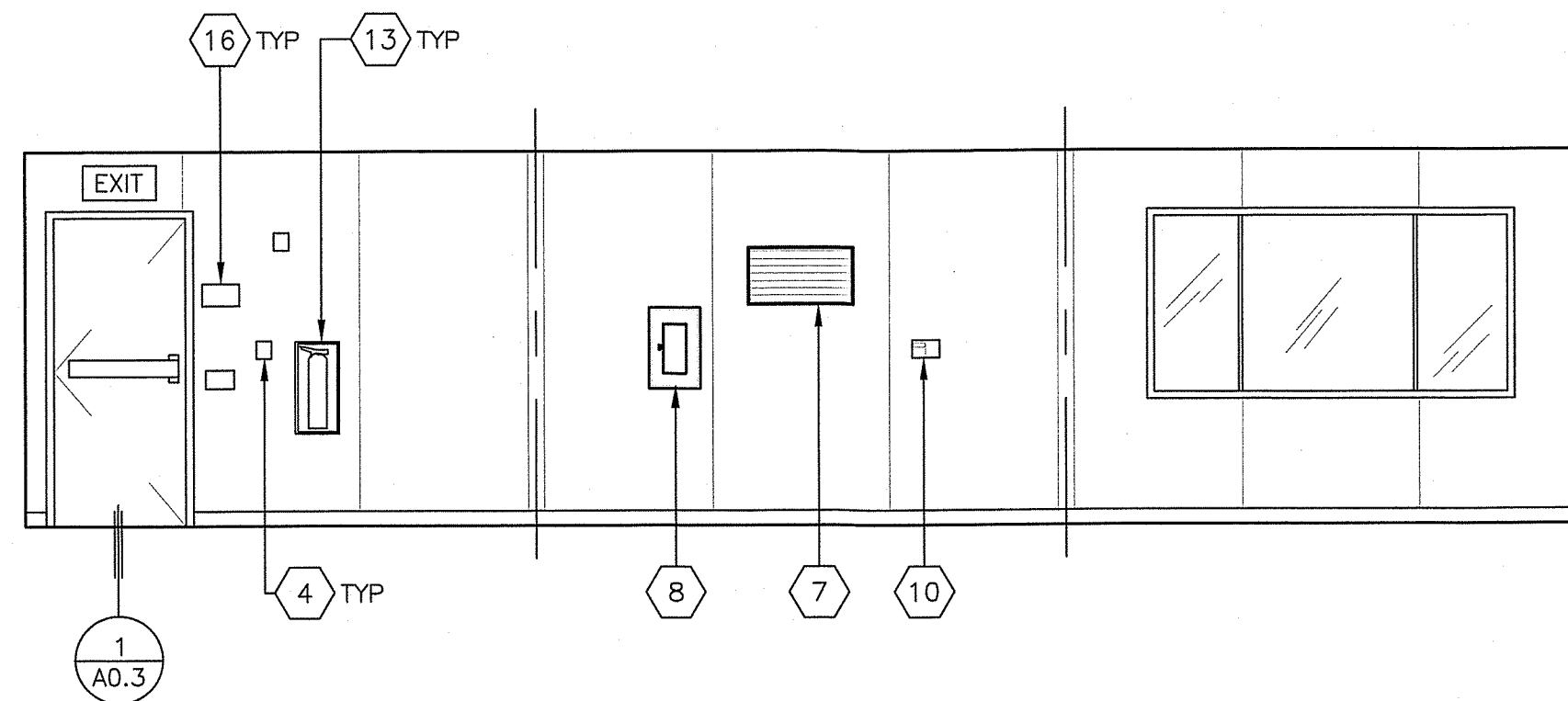
SHEET NUMBER

### A3.4

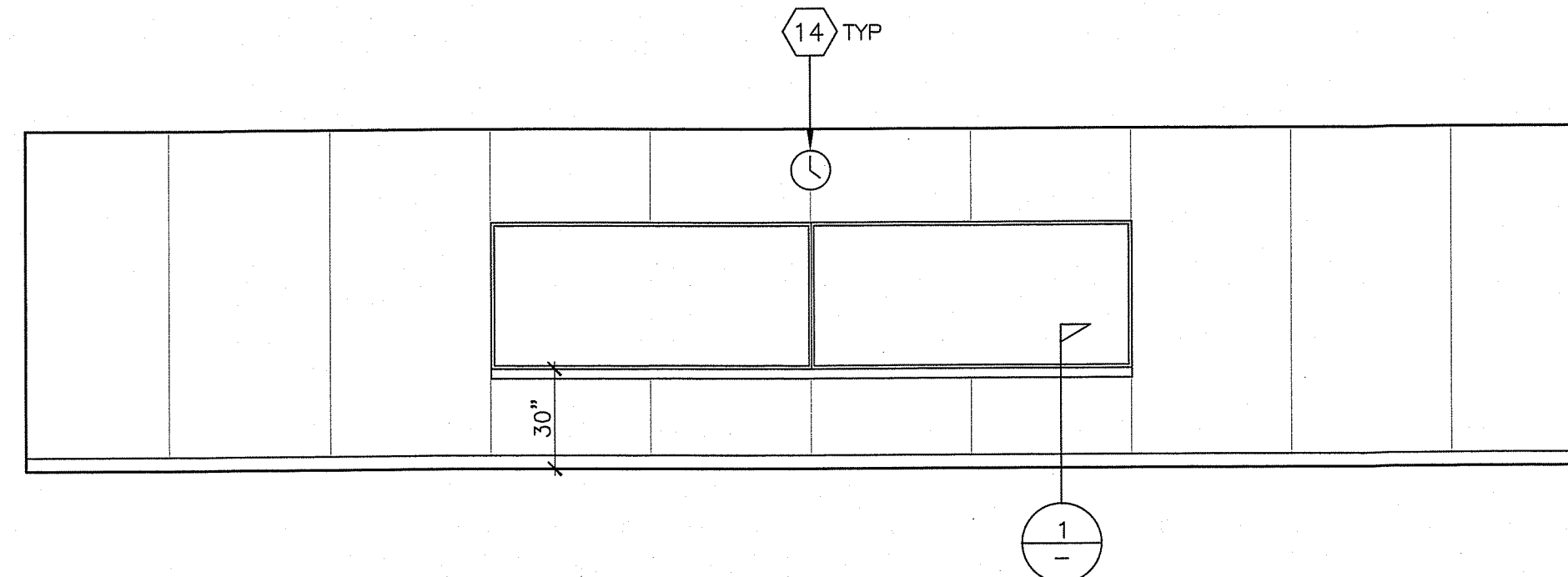
### GENERAL NOTES

1. BUILDING HOUSING GROUP 'E' OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN TABLE 1505.1 CBC, CLASS 'B' MIN, PER CBC 1505.1.2
2. SEE MECHANICAL PLAN FOR ROOF TOP AC UNIT LOCATIONS. REFER TO #15/AB.0 FOR MOUNTING DETAIL
3. SEE SHEET METAL AND FLASHING DETAILS SHEET AB.2 FOR MORE INFORMATION
4. PROVIDE DRAFTSTOPS AT ATTIC SPACES EXCEEDING 3,000 SF PER SECTION 718.4.3 (APPLIES TO BUILDINGS EQUIPPED WITH AN OPEN-WEB TRUSS SYSTEM ONLY). SEE #16/AB.1

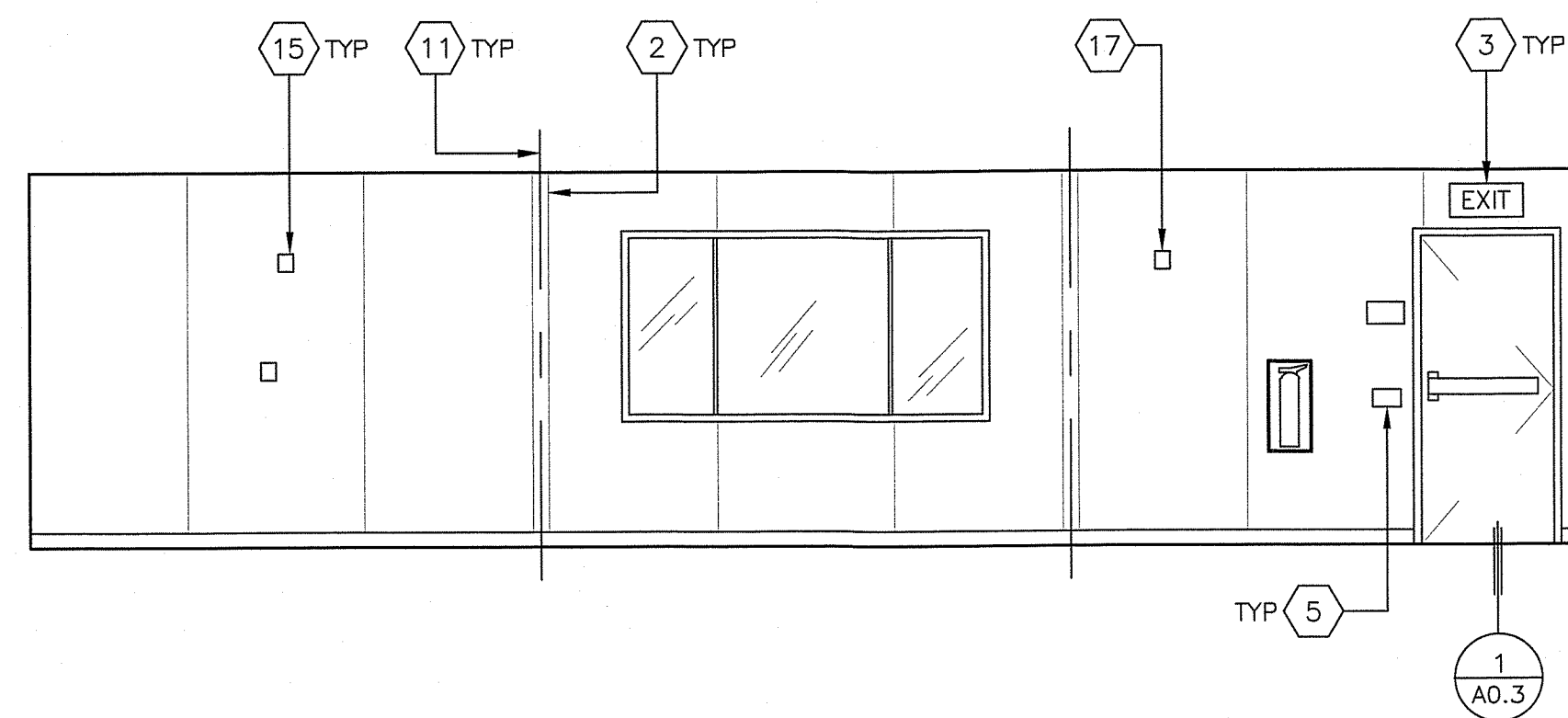




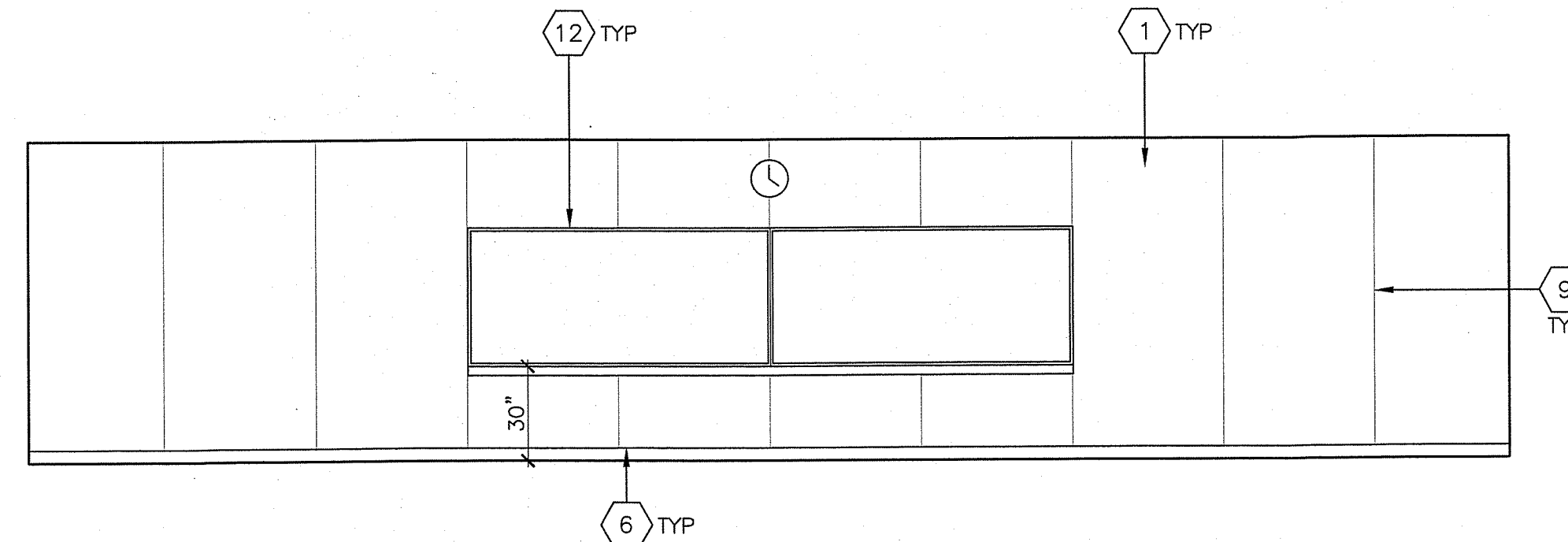
ELEVATION 1



ELEVATION 2



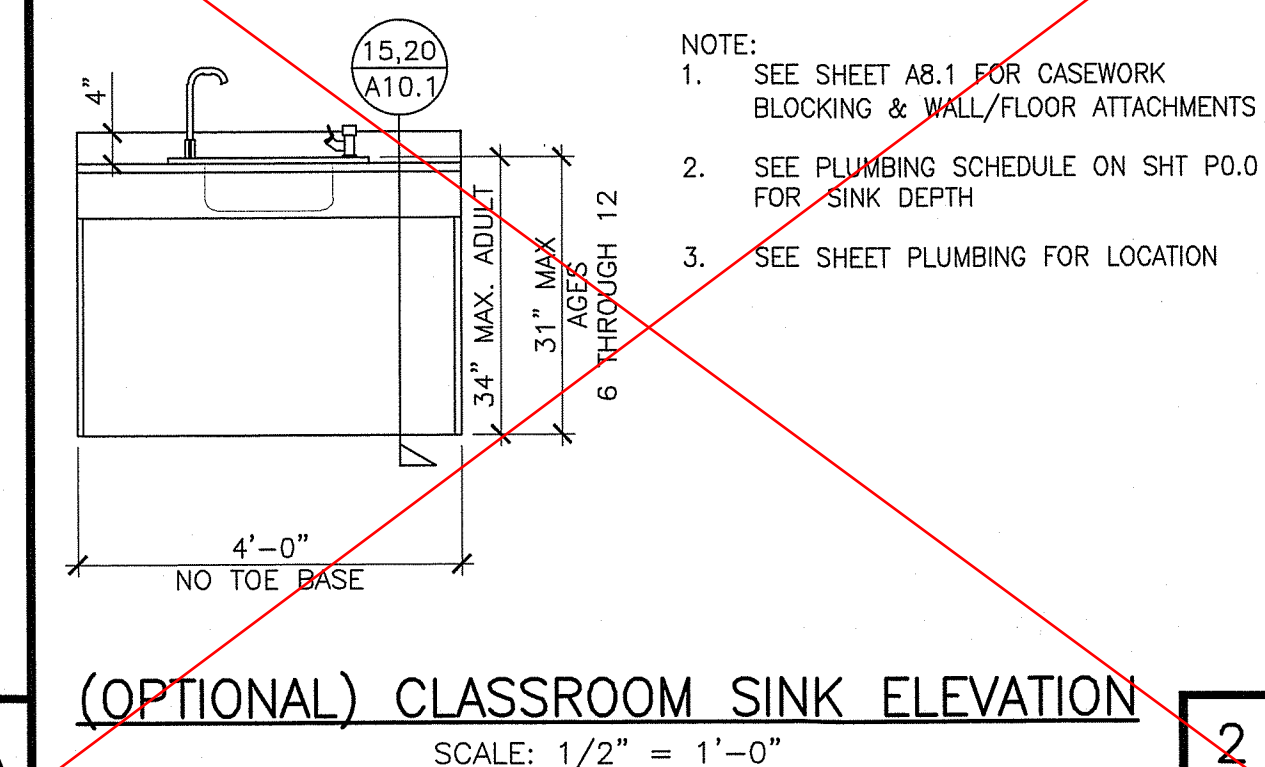
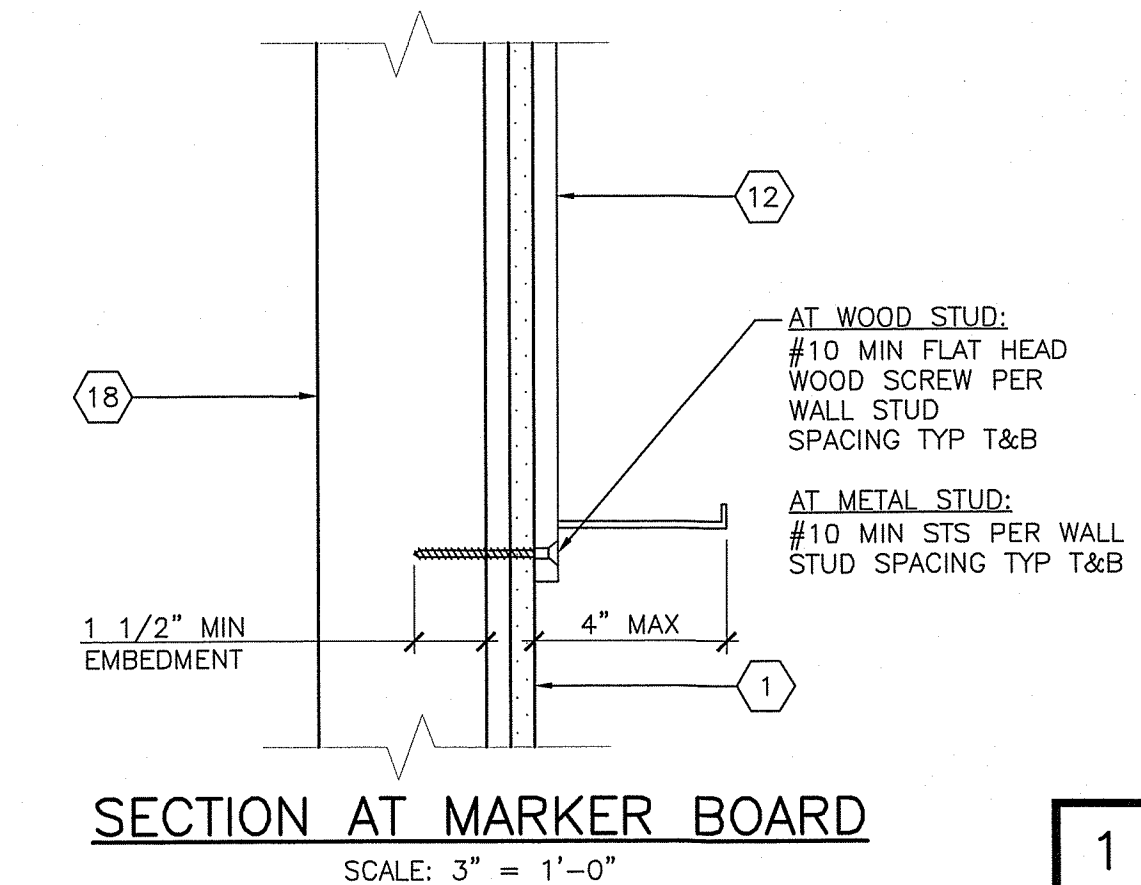
ELEVATION 3



ELEVATION 4

## KEY NOTES

1. TYPICAL INTERIOR FINISH
2. CLOSURE AT MODULAR JOINT
3. LIGHTED EXIT SIGN (SEE ELECTRICAL PLAN)
4. FIRE ALARM PULL STATION (SEE ELECTRICAL PLAN)
5. OCCUPANCY SENSOR OR LIGHT SWITCH (SEE ELECTRICAL PLAN)
6. TOP SET BASE (TYPICAL) SEE FINISH SCHEDULE
7. RETURN AIR GRILL
8. ELECTRICAL PANEL +48" TO HANDLE
9. INTERIOR FINISH SEAM
10. THERMOSTAT (SEE MECHANICAL PLAN)
11. MODULAR JOINT
12. 8'-0" x 4'-0" MARKER BOARD ERASER RAIL PROJECT 4" MAX
13. FIRE EXTINGUISHER IN SEMI-RECESSED CABINET
14. 12" DIA ELECTRIC CLOCK (SEE ELECTRICAL PLAN)
15. HORN/STROBE (SEE ELECTRICAL PLAN)
16. TACTILE EXIT SIGNAGE (SEE SIGNAGE SHEET)
17. OCCUPANT LOAD SIGN (SEE SIGNAGE SHEET)
18. WALL SYSTEM (SEE WALL FRAMING ELEVATION SHEET)



SEE PROJECT SPECIFIC SHEET A4.2.ps

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

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
INCORPORATED  
**AURORA MODTECH**  
DESIGNED BY

CONTRACTORS LICENSE #837357  
NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 665-5800  
FAX: (559) 665-5700  
WEBSITE: WWW.GDM.NET  
SOUTHERN CALIFORNIA DIVISION  
1850 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3662  
WEBSITE: WWW.GDM.NET

THIS DRAWING AND THE MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

INTERIOR ELEVATIONS  
36'X40'

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2019

MFR. PROJECT-SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # 1102  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2019

REVISIONS

REVISIONS  
1. SEE SHEET A8.1 FOR CASEWORK BLOCKING & WALL/FLOOR ATTACHMENTS  
2. SEE PLUMBING SCHEDULE ON SHIT P.O.0 FOR SINK DEPTH  
3. SEE SHEET PLUMBING FOR LOCATION

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00

SHEET NUMBER

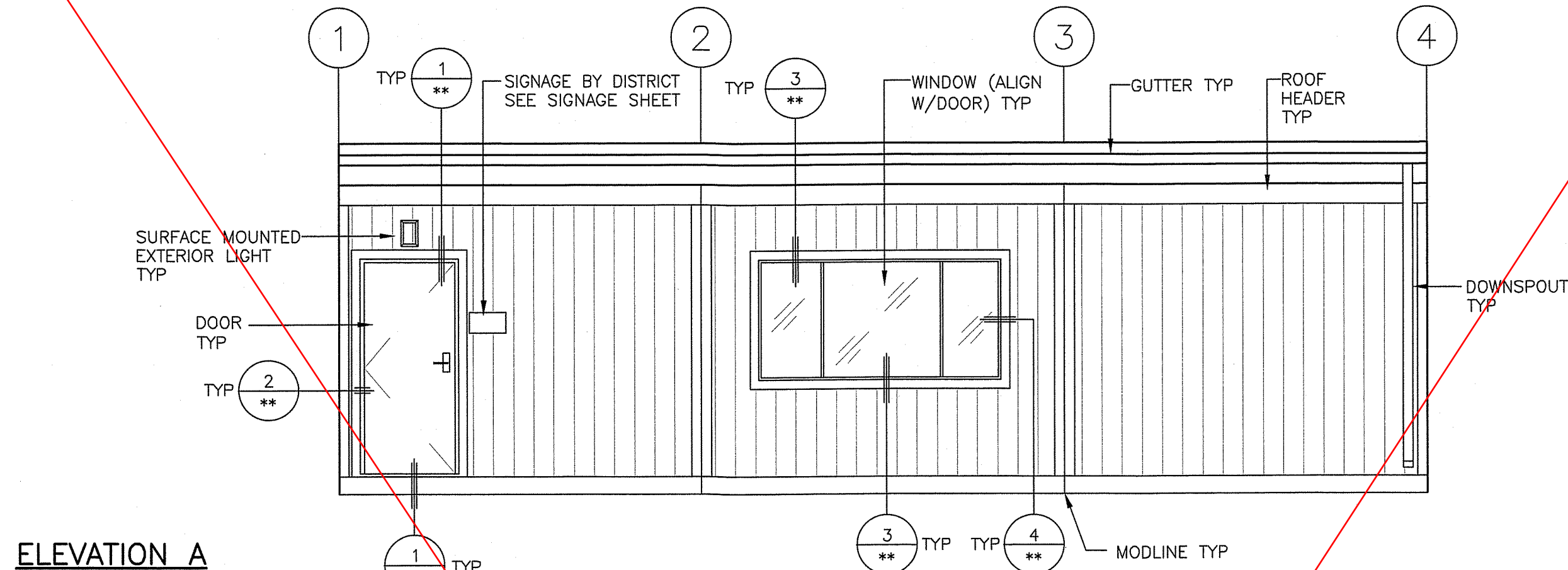
**A4.2**



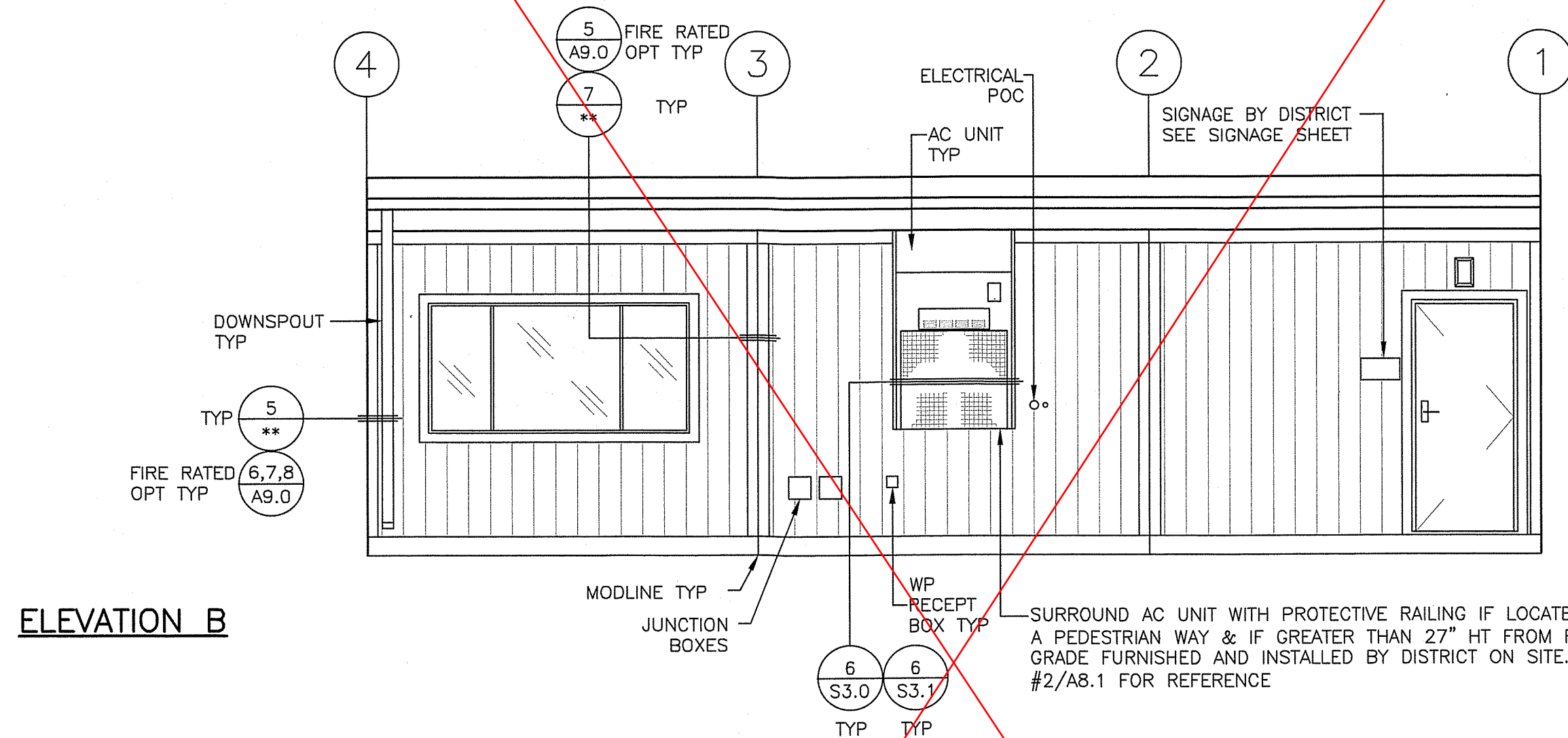
# BUILDING IDENTIFICATION SIGN

- PER CFC SECTION 505.1, A BUILDING IDENTIFICATION SIGN SHALL BE PLACED ON A NEW OR EXISTING BUILDING. SIGN SHALL BE PLACED AND DESIGNED PER SECTION 505.1. SIGN SHALL BE PROVIDED BY OWNER OR DISTRICT
- FOR MODULAR BUILDING IDENTIFICATION TAG, REFER TO SHEET A0.1 UNDER GENERAL DESIGN REQUIREMENTS & #2/A0.4

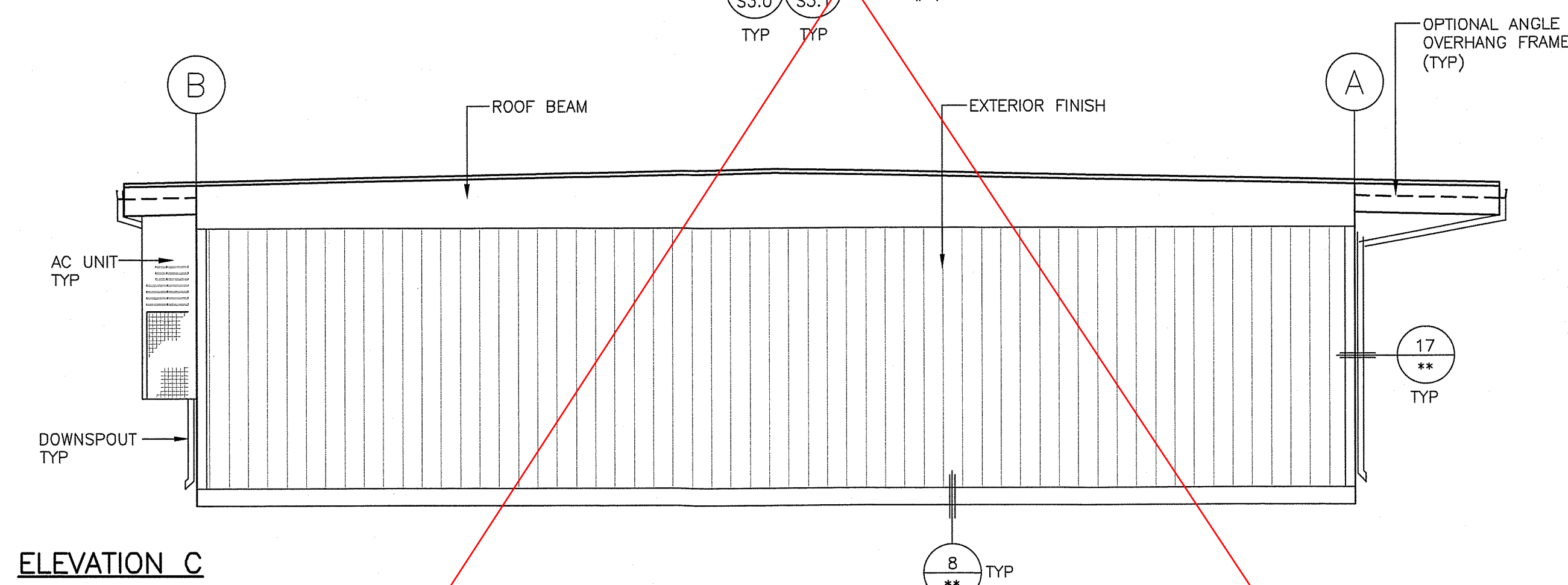
\*\* = OPTIONS: (CHECK ONE)  
☐ WOOD STUDS A8.0 ☐ METAL STUDS A8.3



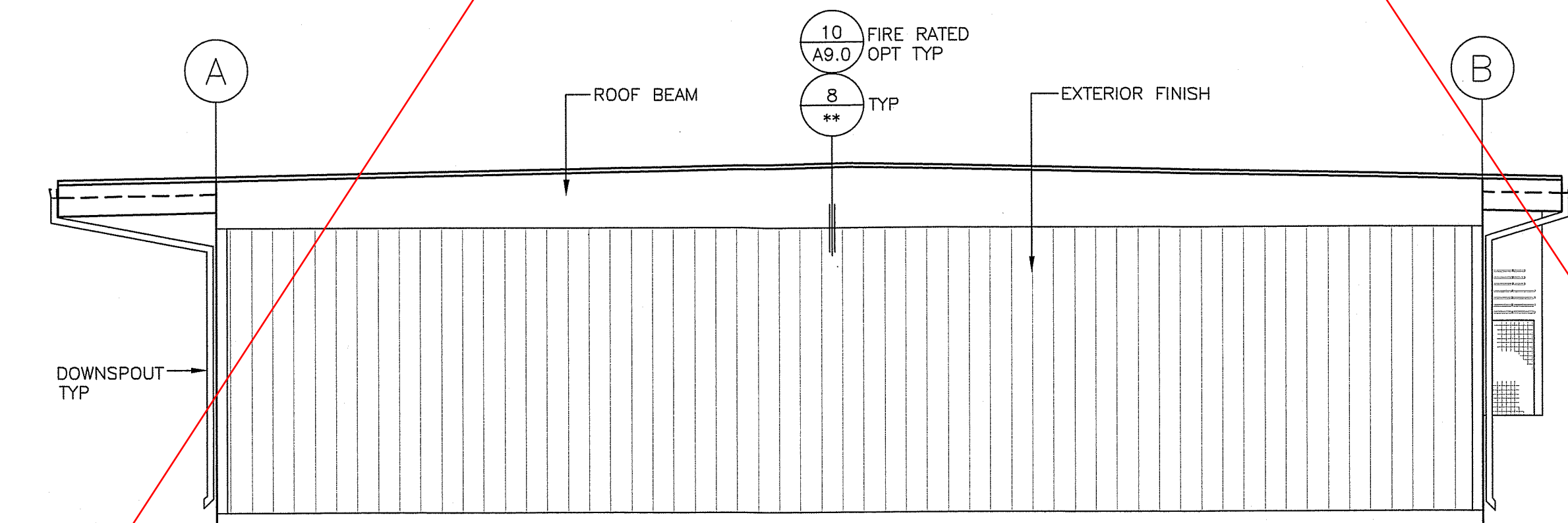
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

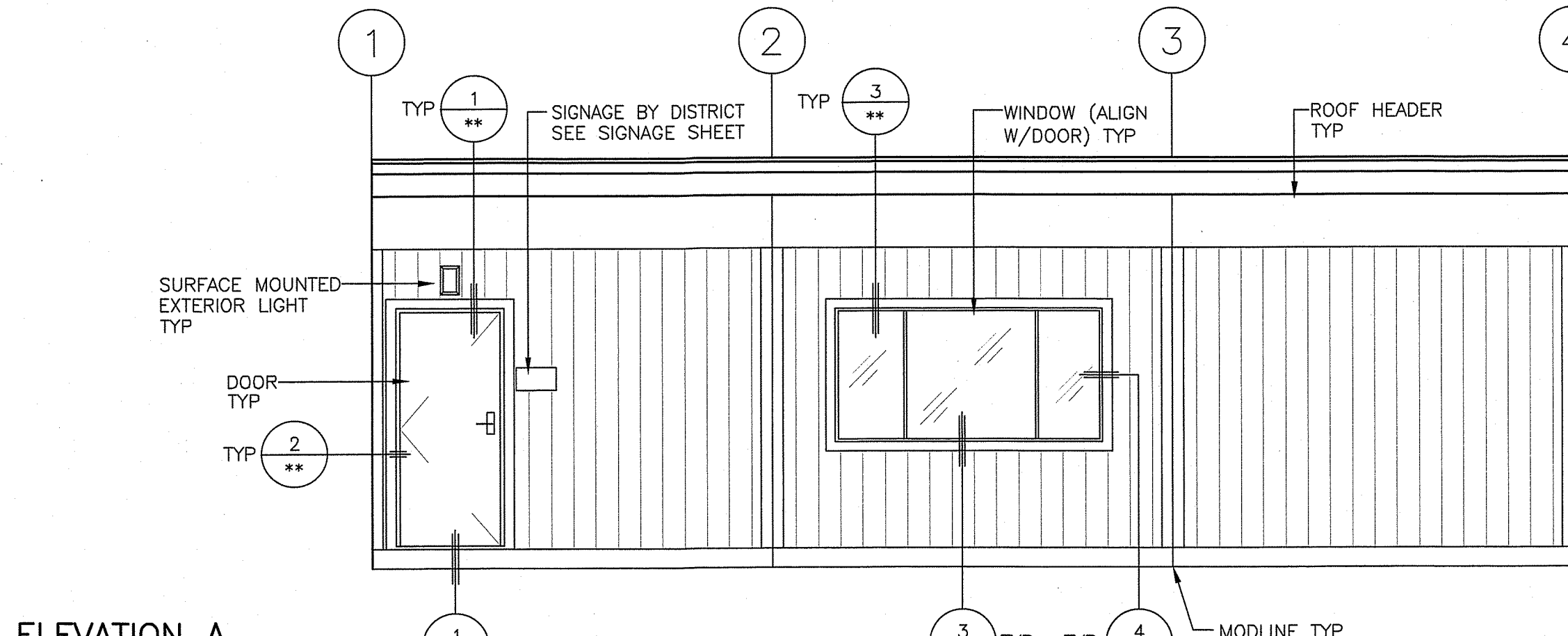
## EXTERIOR ELEVATIONS (DUAL SLOPE)

SCALE: 1/4" = 1'-0"  
 • RAMP AND LANDING NOT SHOWN FOR CLARITY (SEE ELEVATIONS ON RAMP SHEETS)  
 • SEE SHEET \*\* FOR ARCHITECTURAL DETAILS

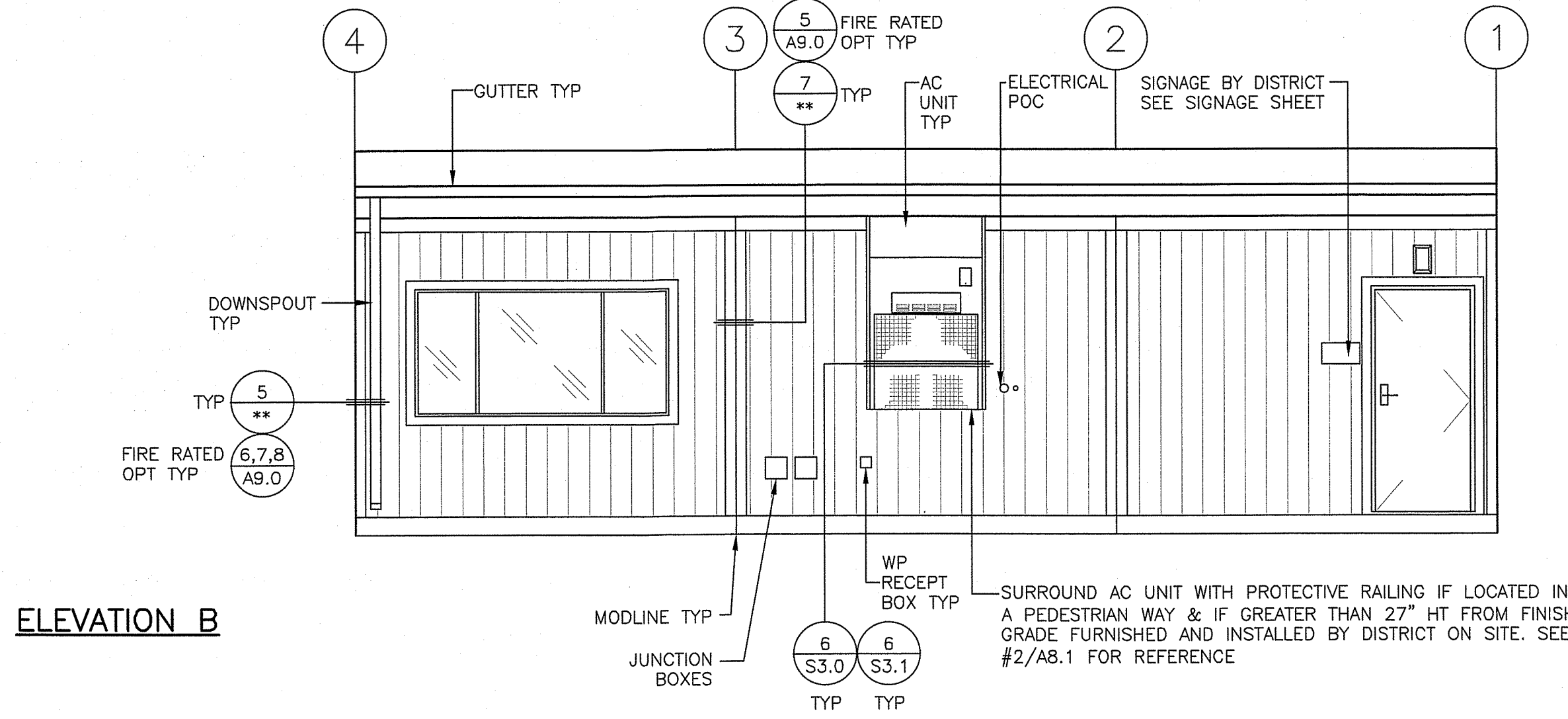
# BUILDING IDENTIFICATION SIGN

- PER CFC SECTION 505.1, A BUILDING IDENTIFICATION SIGN SHALL BE PLACED ON A NEW OR EXISTING BUILDING. SIGN SHALL BE PLACED AND DESIGNED PER SECTION 505.1. SIGN SHALL BE PROVIDED BY OWNER OR DISTRICT
- FOR MODULAR BUILDING IDENTIFICATION TAG, REFER TO SHEET A0.1 UNDER GENERAL DESIGN REQUIREMENTS & #2/A0.4

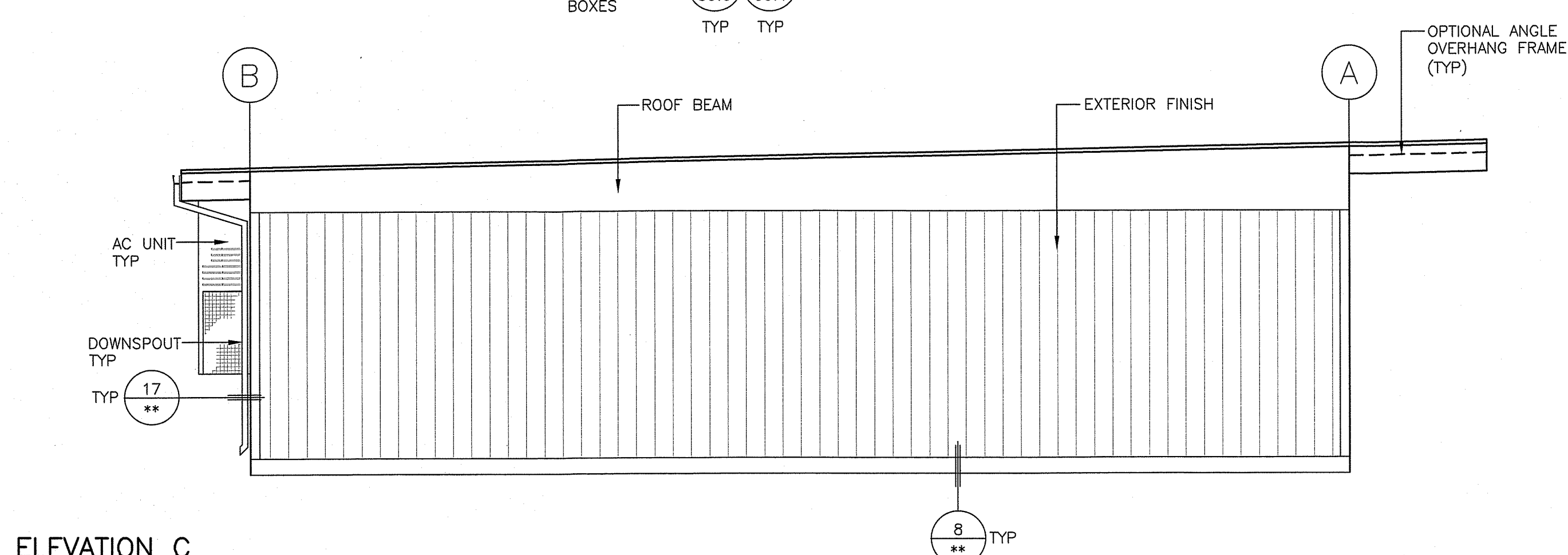
\*\* = OPTIONS: (CHECK ONE)  
☐ WOOD STUDS A8.0 ☐ METAL STUDS A8.3



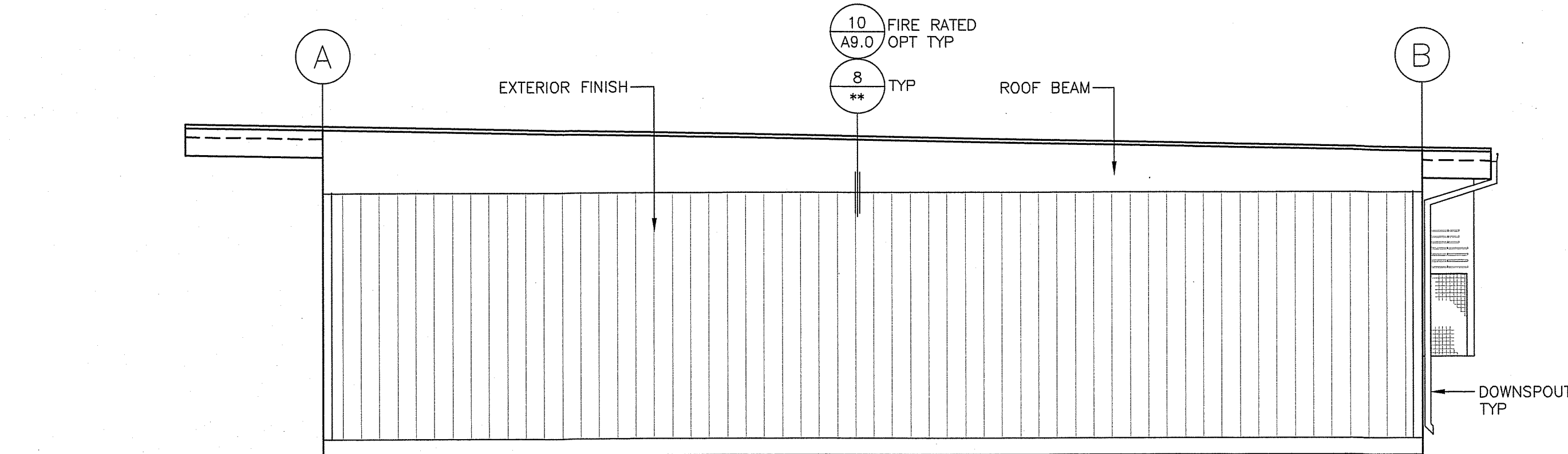
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

## EXTERIOR ELEVATIONS (MONO SLOPE)

SCALE: 1/4" = 1'-0"  
 • RAMP AND LANDING NOT SHOWN FOR CLARITY (SEE ELEVATIONS ON RAMP SHEETS)  
 • SEE SHEET \*\* FOR ARCHITECTURAL DETAILS

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 APP: 02-118411 INC:  
 REVIEWED FOR  
 SS ☒ FLS ☒ ACS ☒  
 DATE: 06/11/2020

**GLOBAL MODULAR**  
 Incorporated

**AURORA ModTECH**  
 Designs

CONTRACTORS LICENSE #837357  
 NORTHERN CALIFORNIA DIVISION 1200 AIRPORT DRIVE CHOWCHILLA, CA 93610  
 PHONE: (559) 886-5500 FAX: (559) 886-5700 WEBSITE: WWW.GDMV.NET  
 SOUTHERN CALIFORNIA DIVISION 1560 CHICAGO AVE., SUITE #M-21 RIVERSIDE, CA 92507  
 PHONE: (951) 886-3633 FAX: (951) 886-3662 WEBSITE: WWW.GDMV.NET

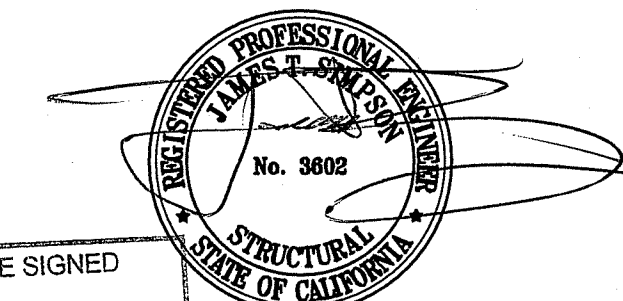
THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

EXTERIOR ELEVATIONS  
 WOOD SIDING  
 36'x40'

MFR. STRUCTURAL ENGINEER OF RECORD ON PC



DATE SIGNED  
 DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
 CODE: 2016 CBC  
 A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 PC 02-116677  
 FILE #0002  
 AC 4  
 DEC 14 2018

REVISIONS
△ -
△ -
△ -
△ -
△ -
△ -
△ -
△ -

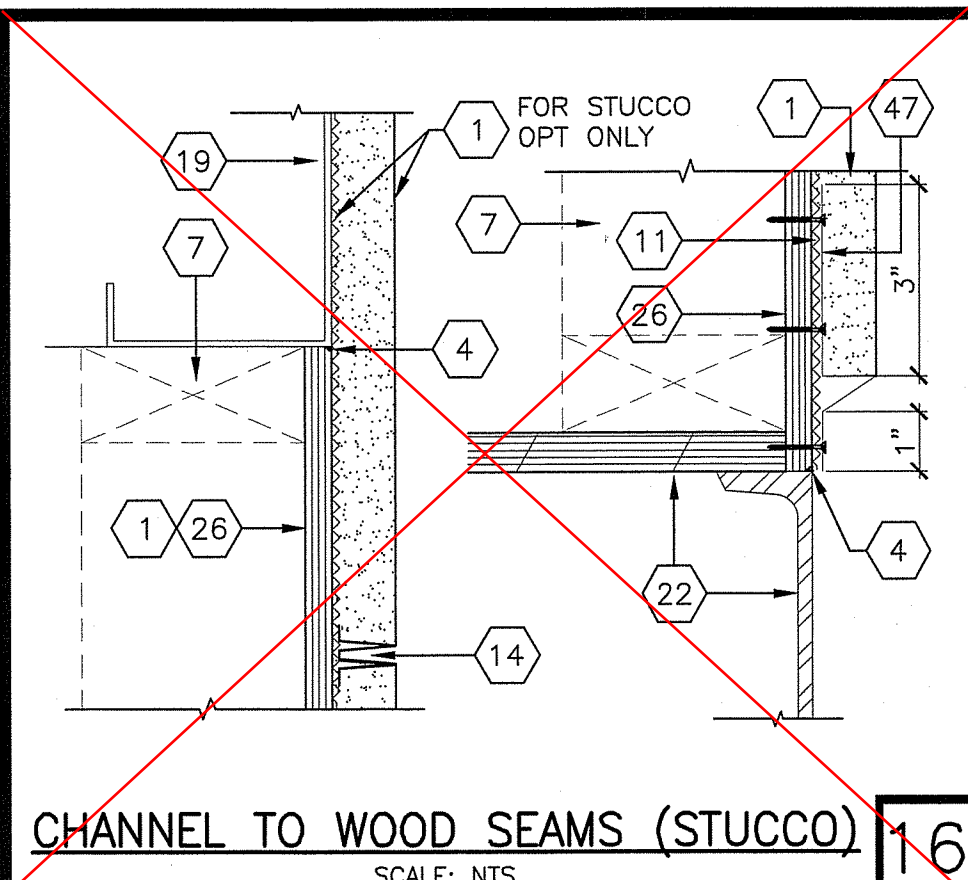
PROJECT NO.: 00-0000  
 DRAWN BY: 00  
 SCALE: AS NOTED  
 DATE: 00-00-00

SHEET NUMBER

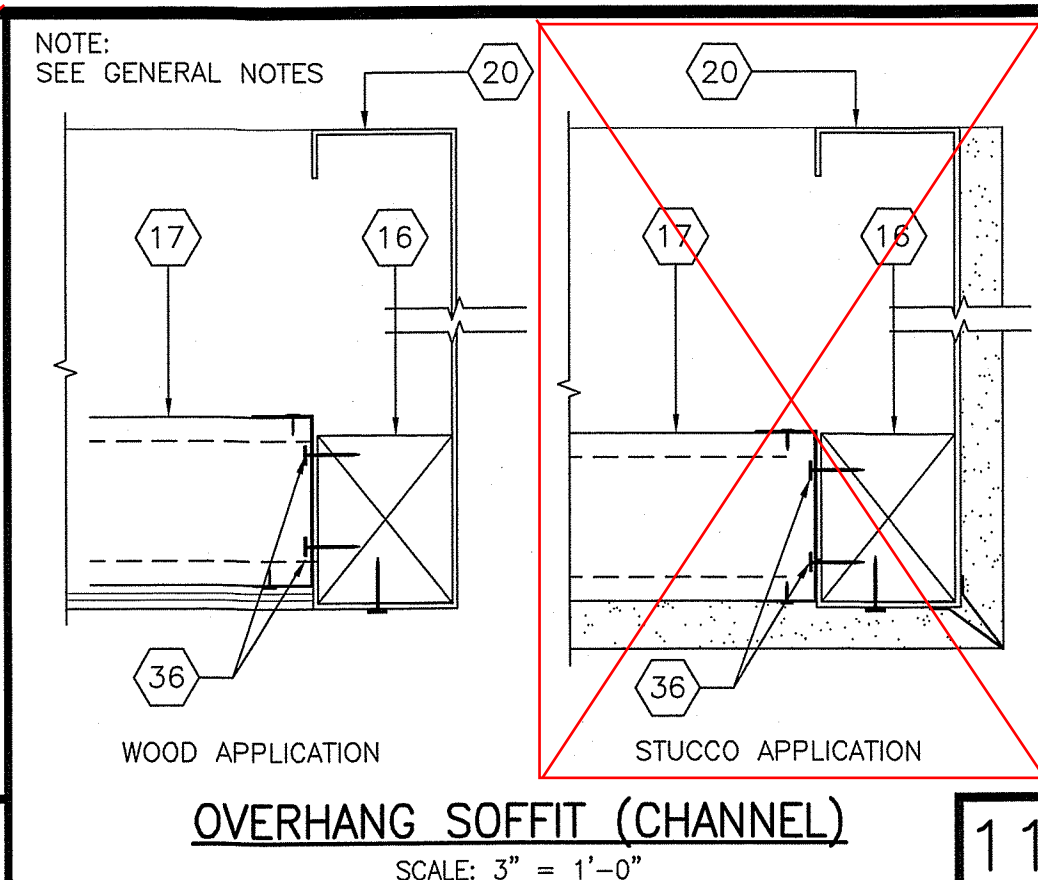
**A5.2**

SEE PROJECT SPECIFIC SHEET A5.2.ps

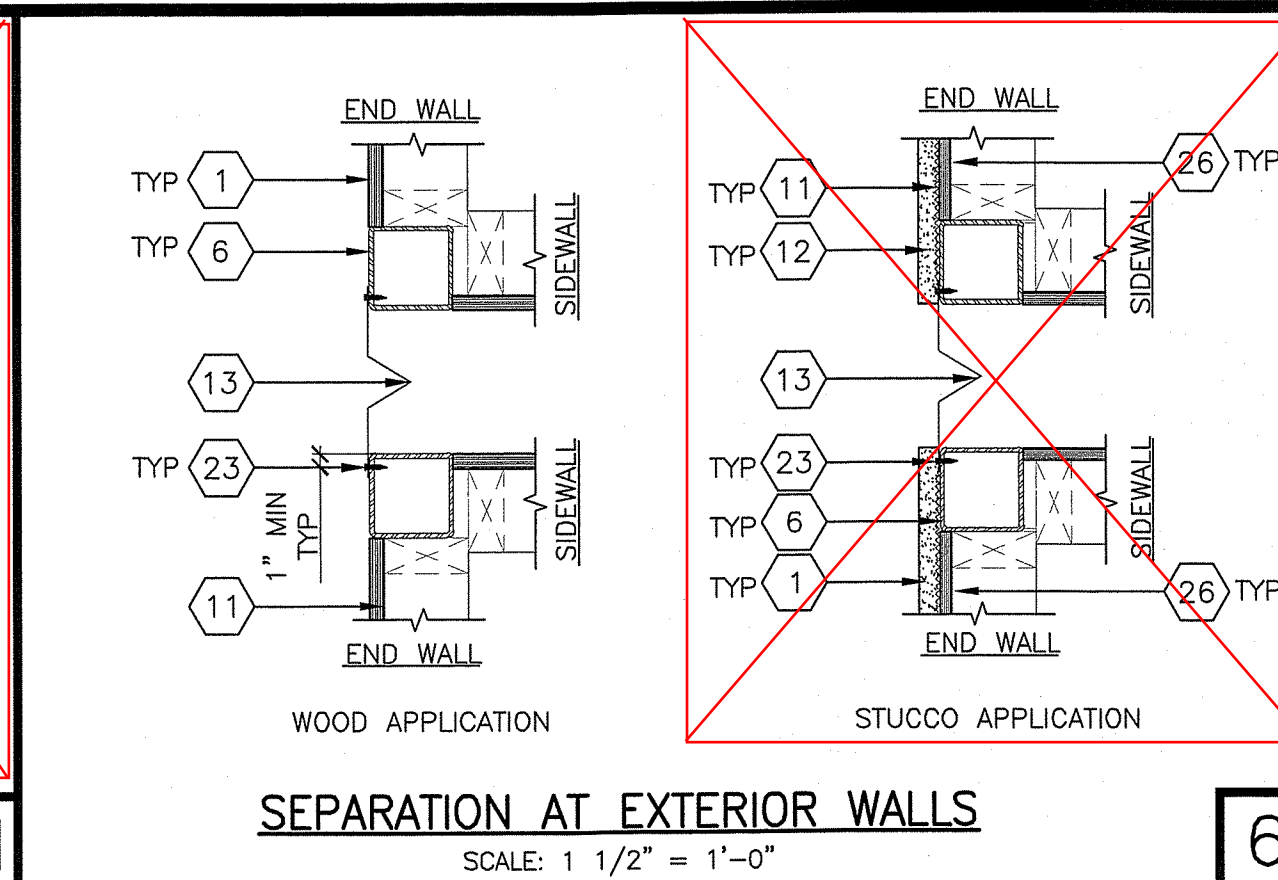




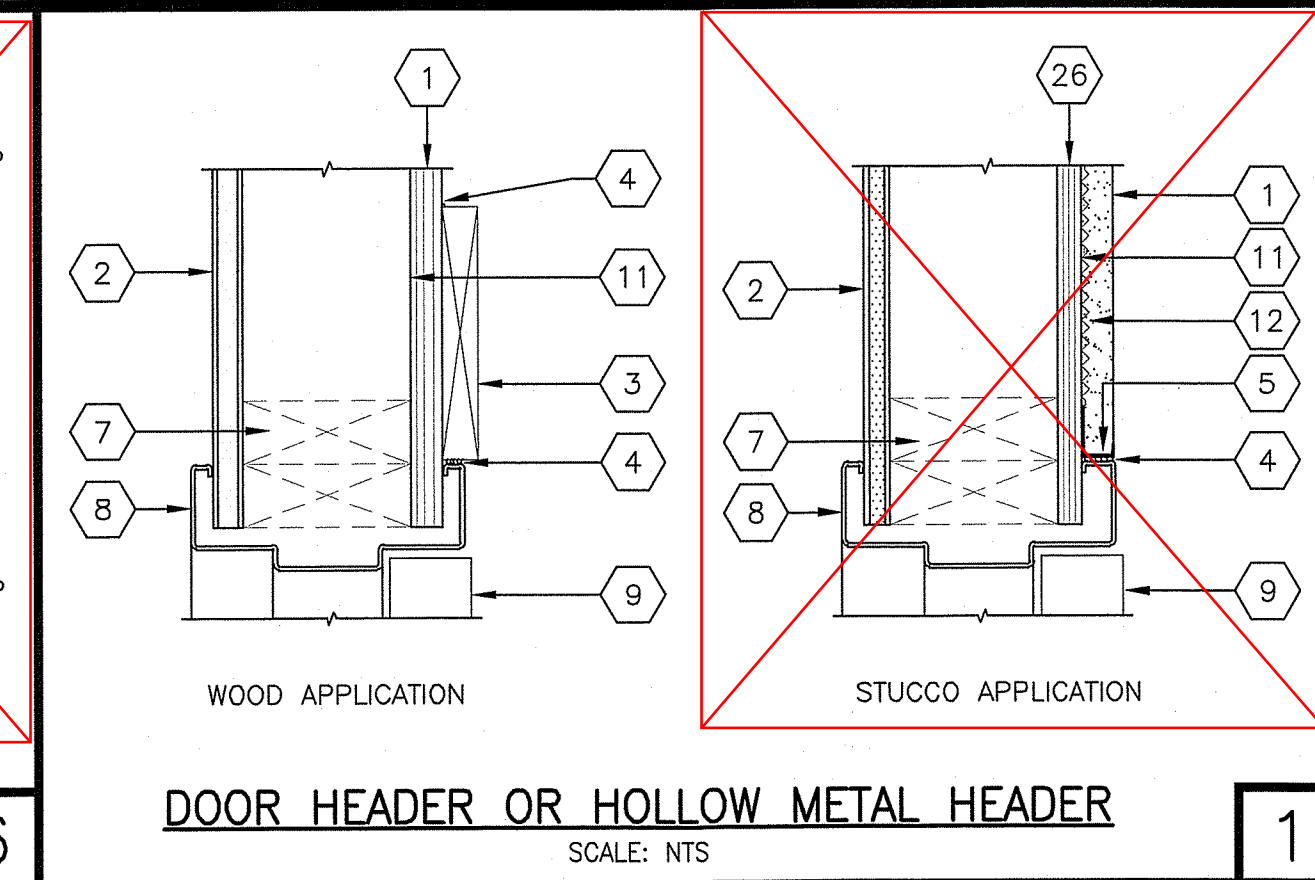
CHANNEL TO WOOD SEAMS (STUCCO)  
SCALE: NTS



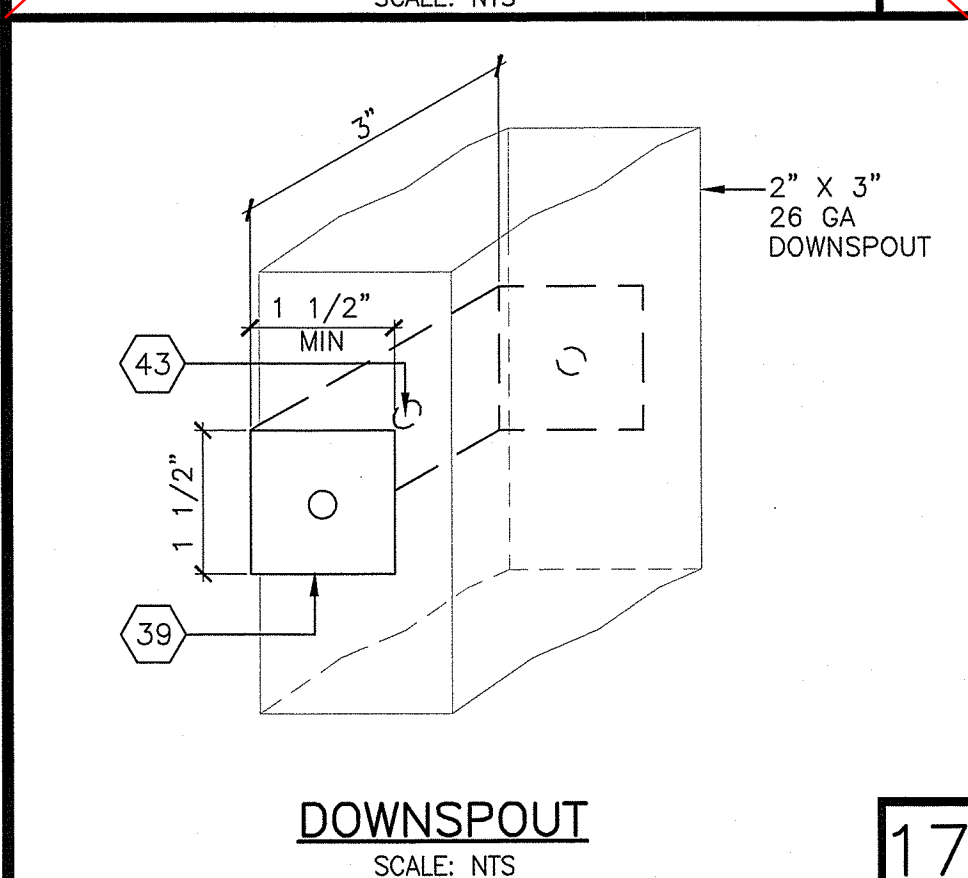
OVERHANG SOFFIT (CHANNEL)  
SCALE: 3" = 1'-0"



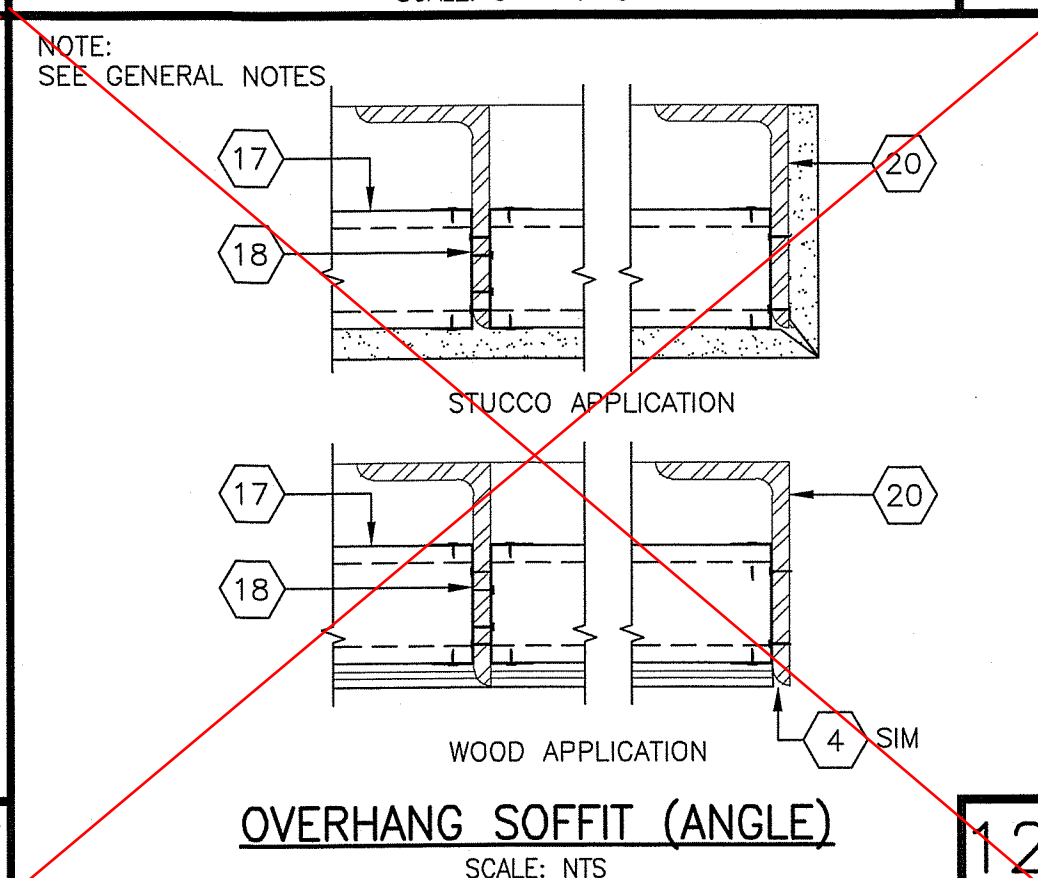
SEPARATION AT EXTERIOR WALLS  
SCALE: 1 1/2" = 1'-0"



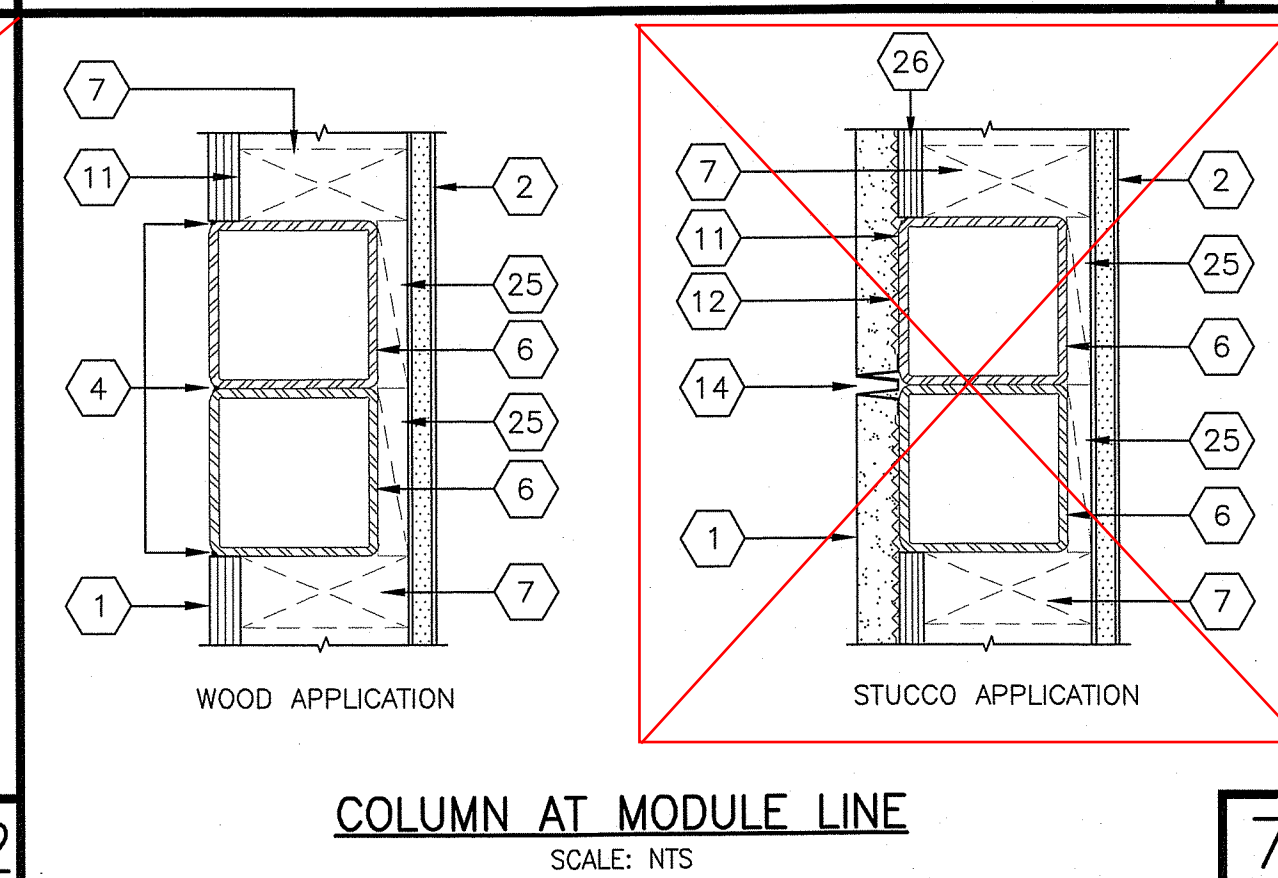
DOOR HEADER OR HOLLOW METAL HEADER  
SCALE: NTS



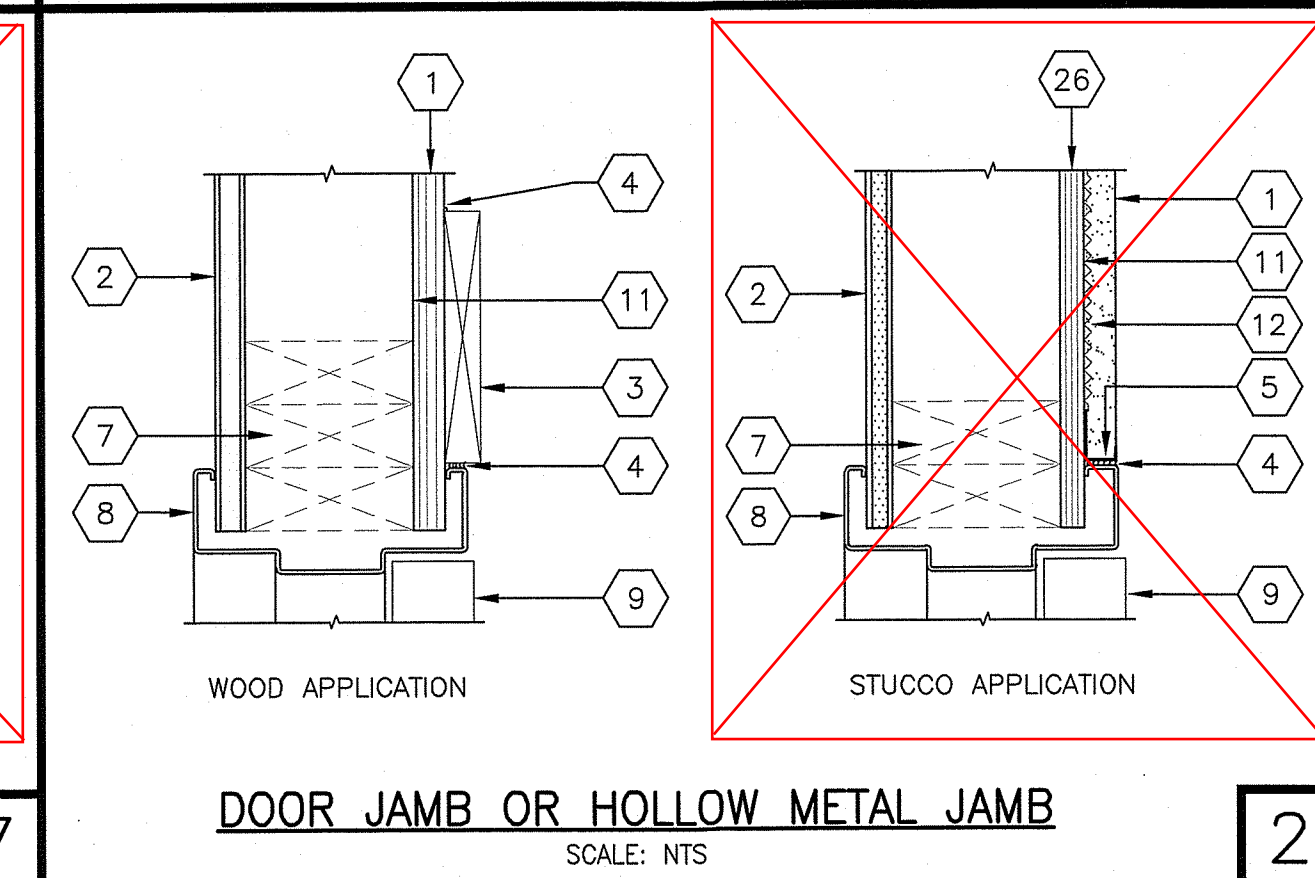
DOWNSPOUT  
SCALE: NTS



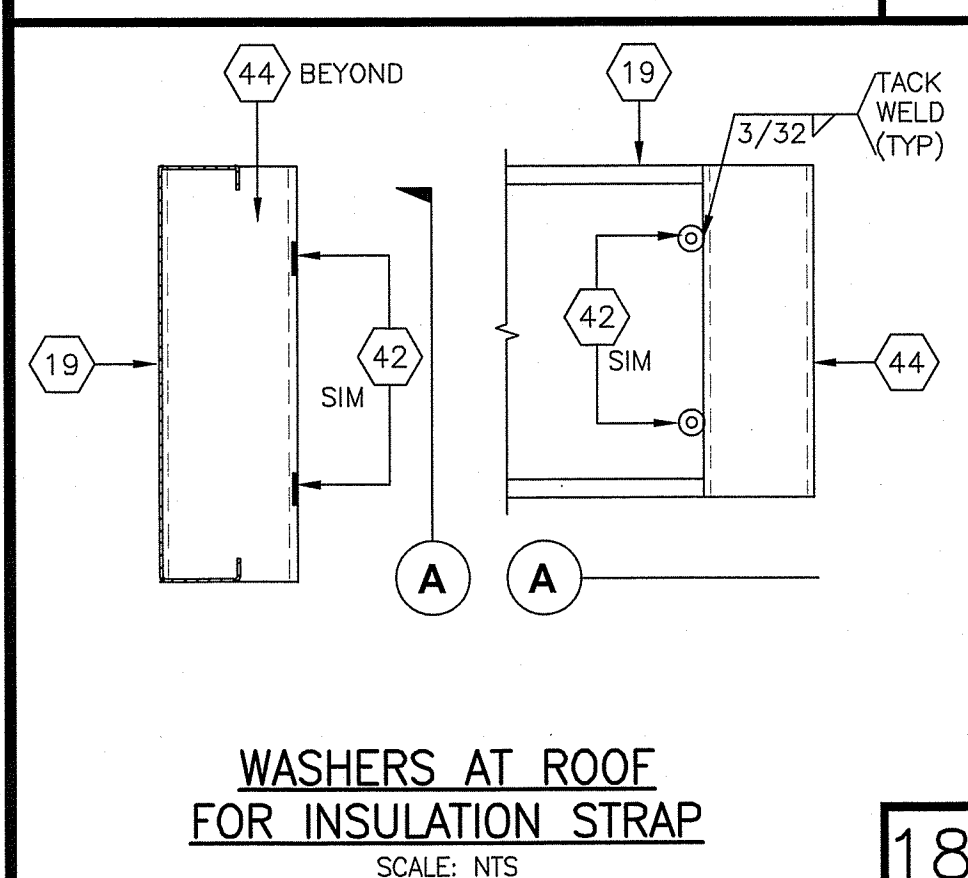
OVERHANG SOFFIT (ANGLE)  
SCALE: NTS



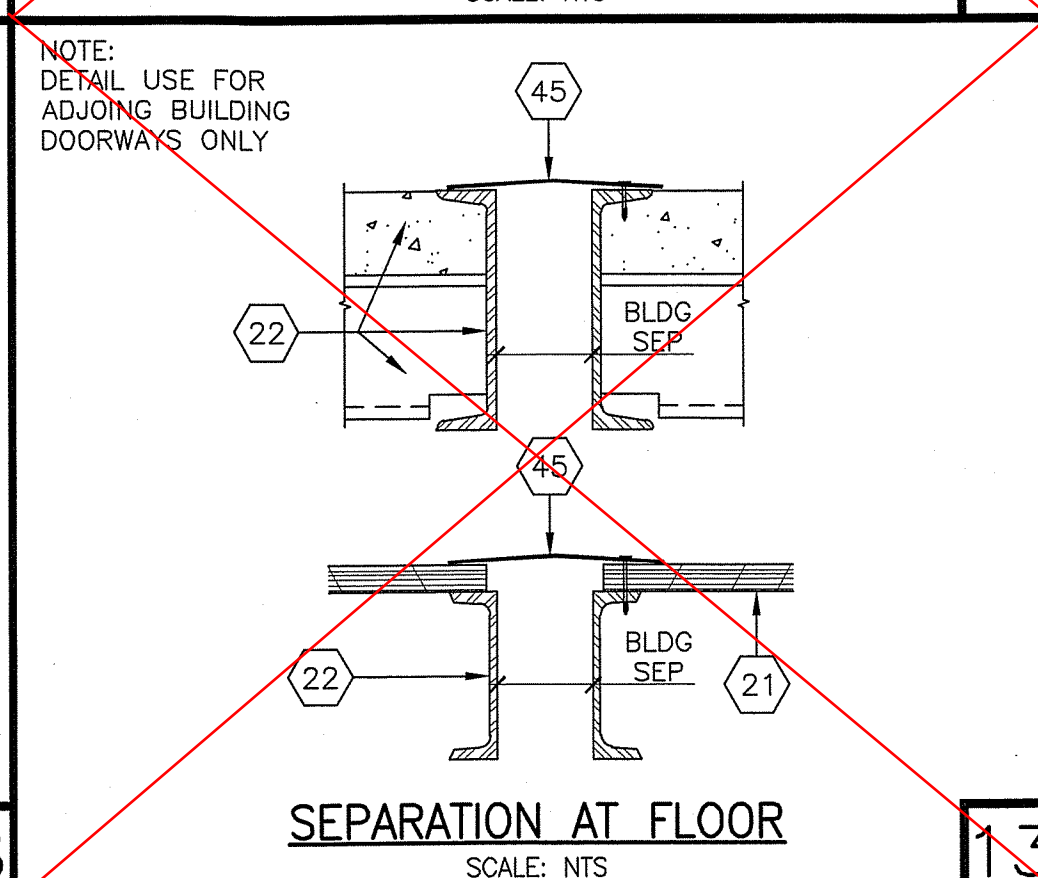
COLUMN AT MODULE LINE  
SCALE: NTS



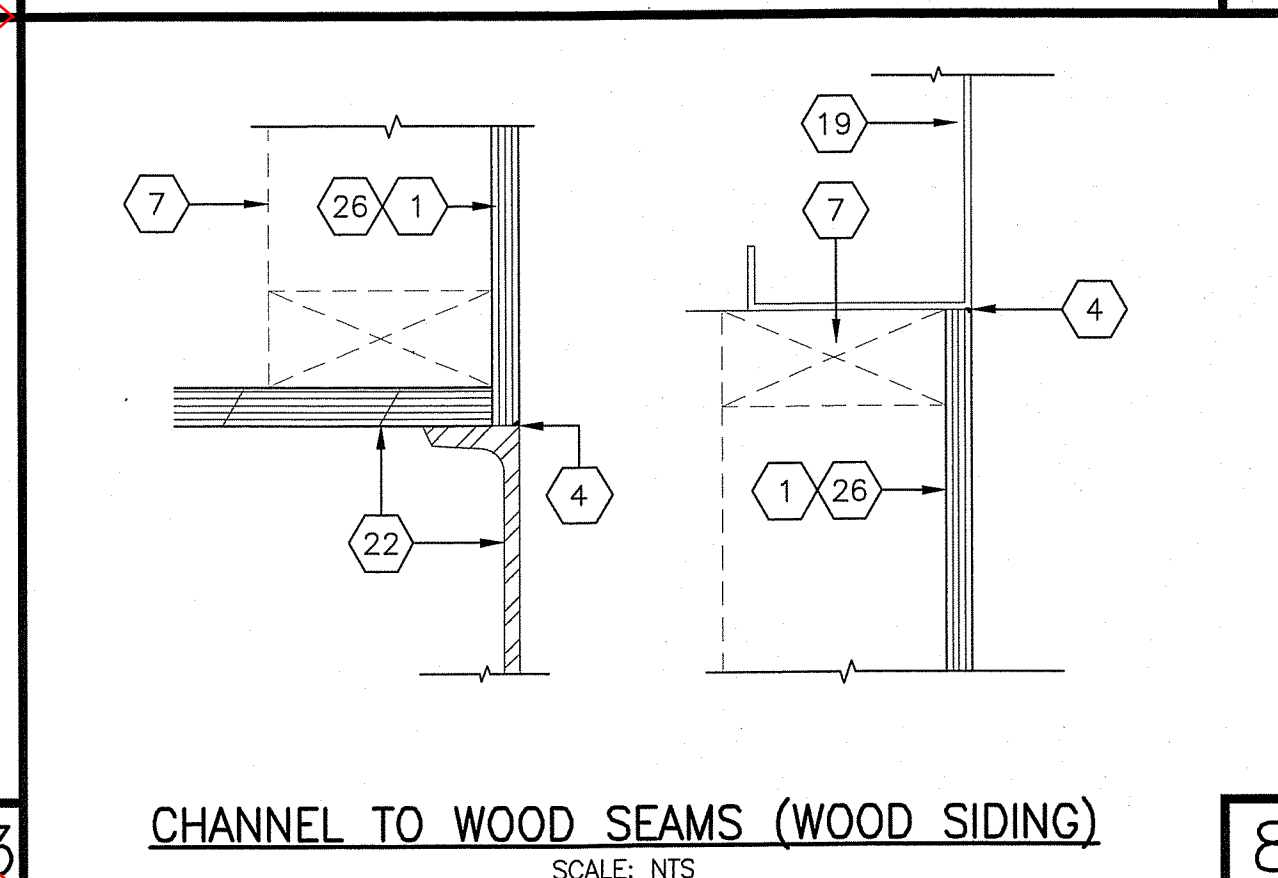
DOOR JAMB OR HOLLOW METAL JAMB  
SCALE: NTS



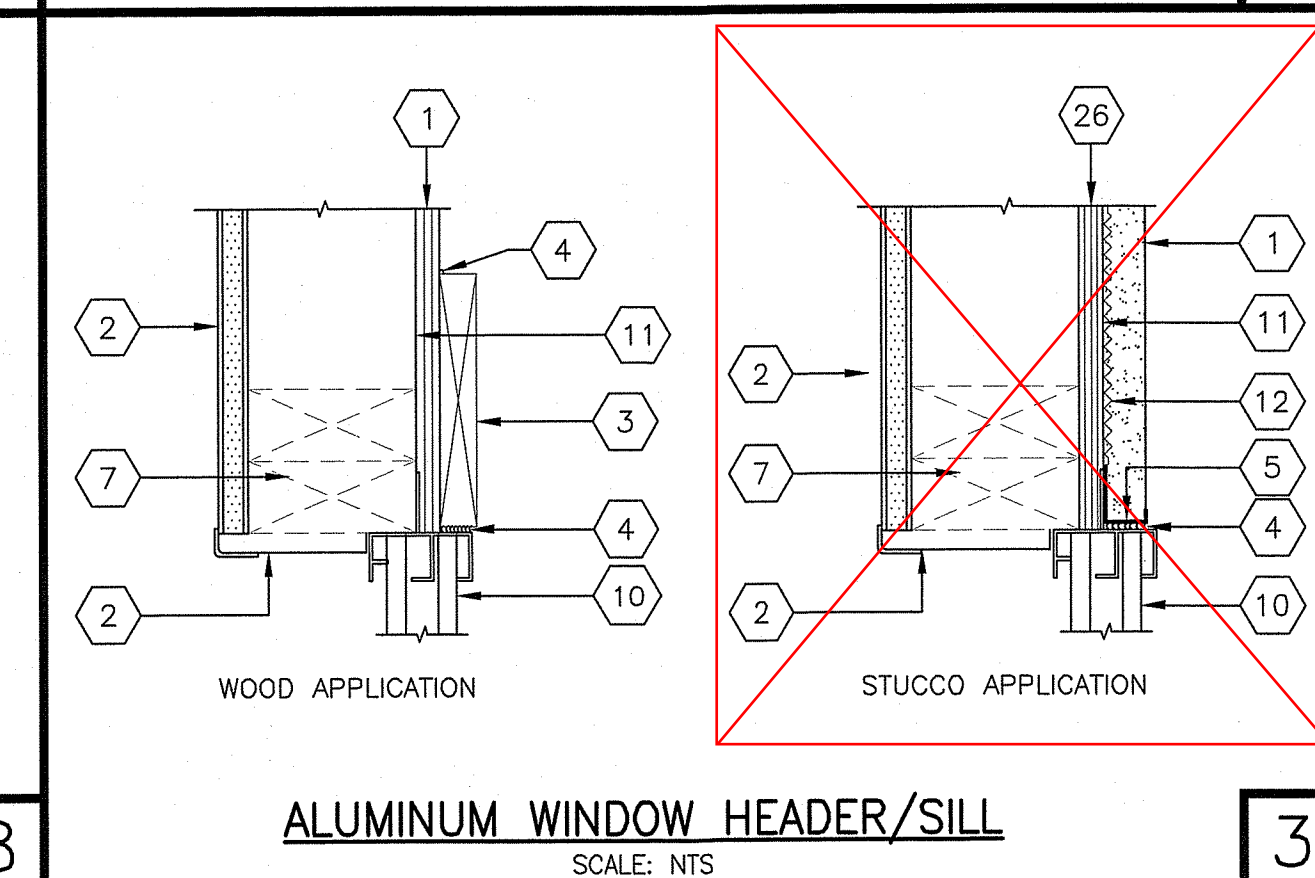
WASHERS AT ROOF FOR INSULATION STRAP  
SCALE: NTS



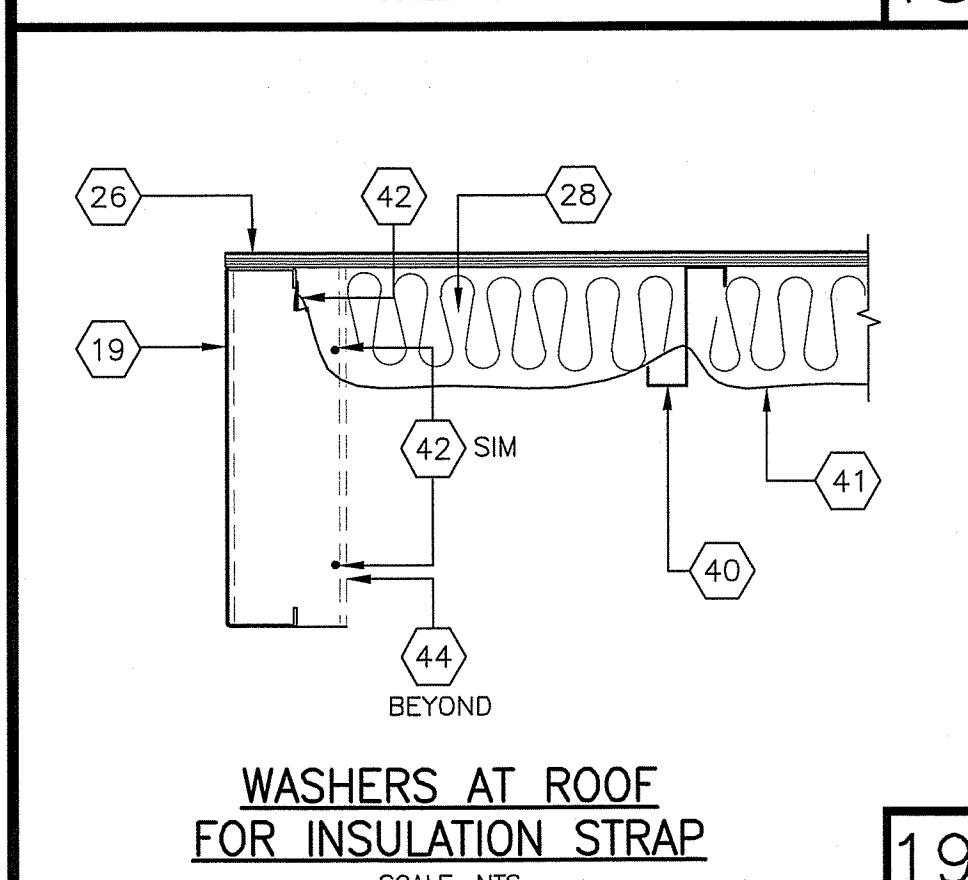
SEPARATION AT FLOOR  
SCALE: NTS



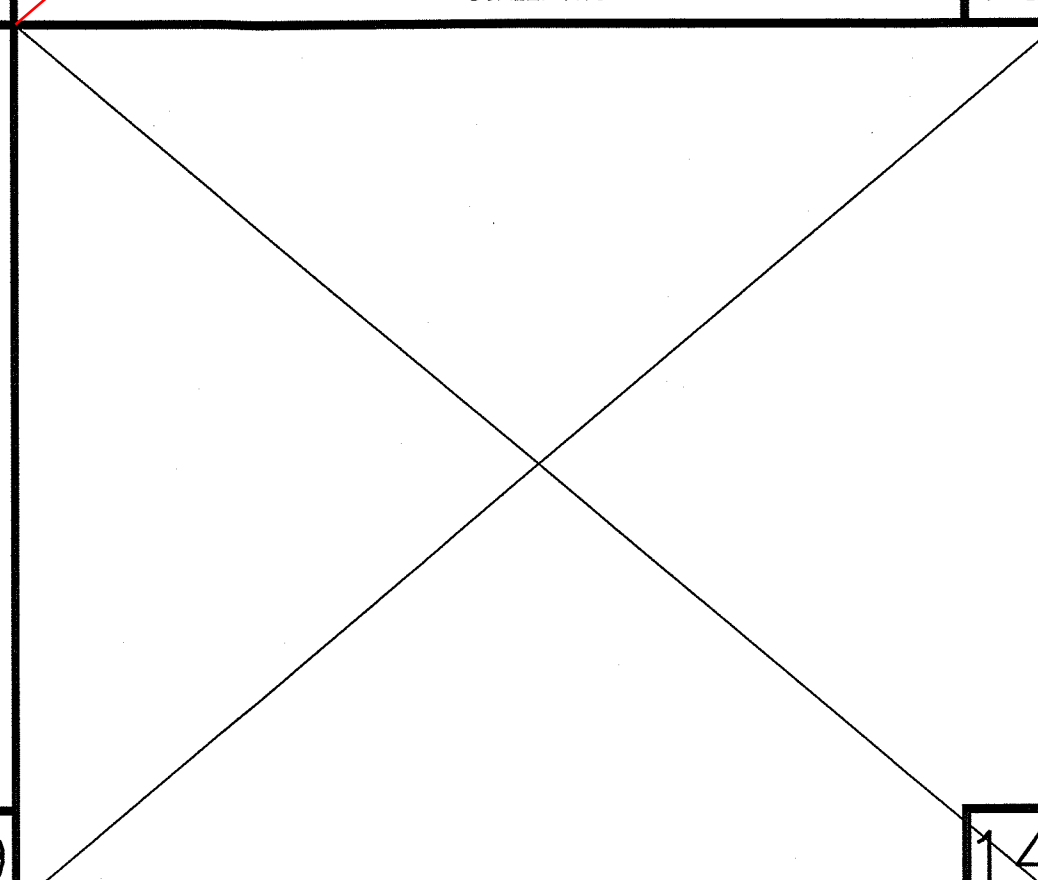
CHANNEL TO WOOD SEAMS (WOOD SIDING)  
SCALE: NTS



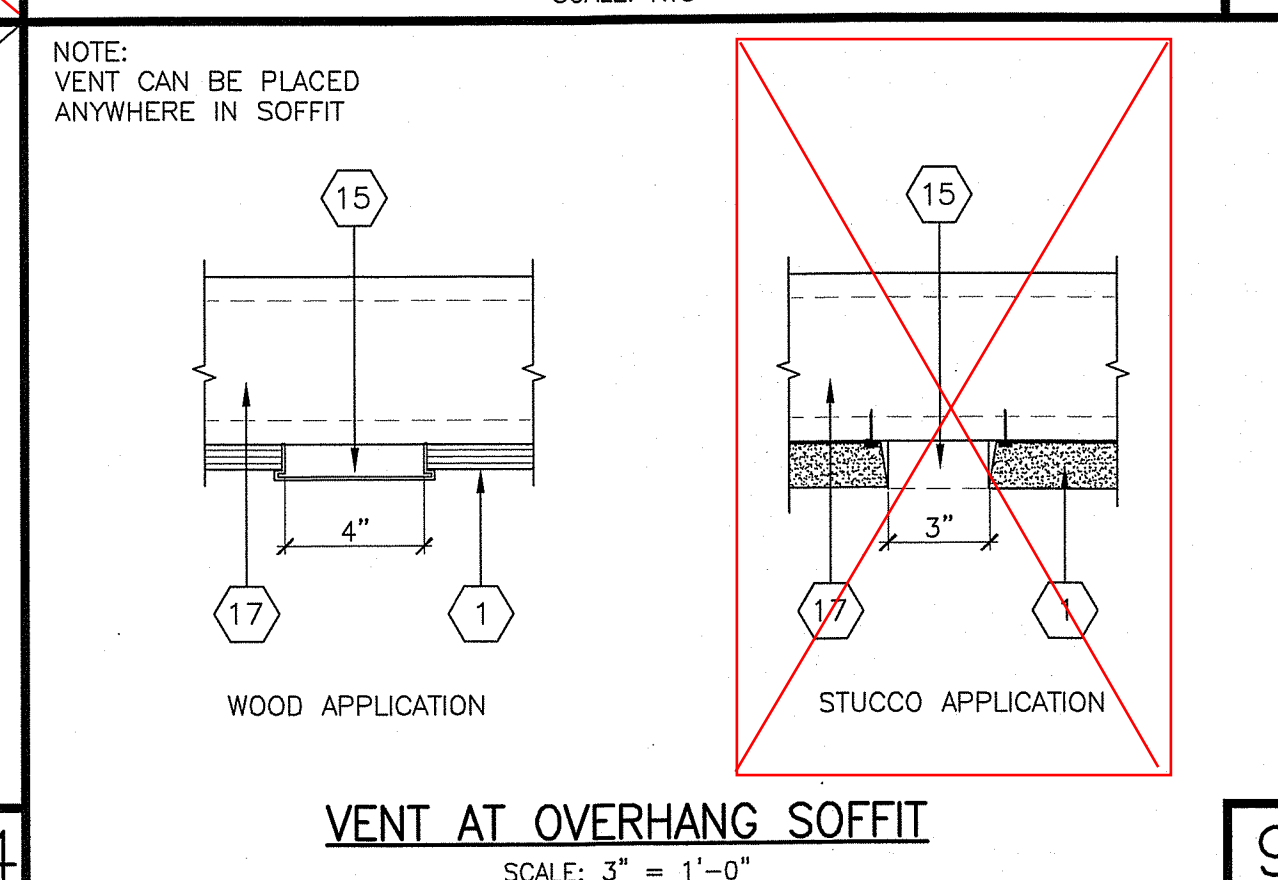
ALUMINUM WINDOW HEADER/SILL  
SCALE: NTS



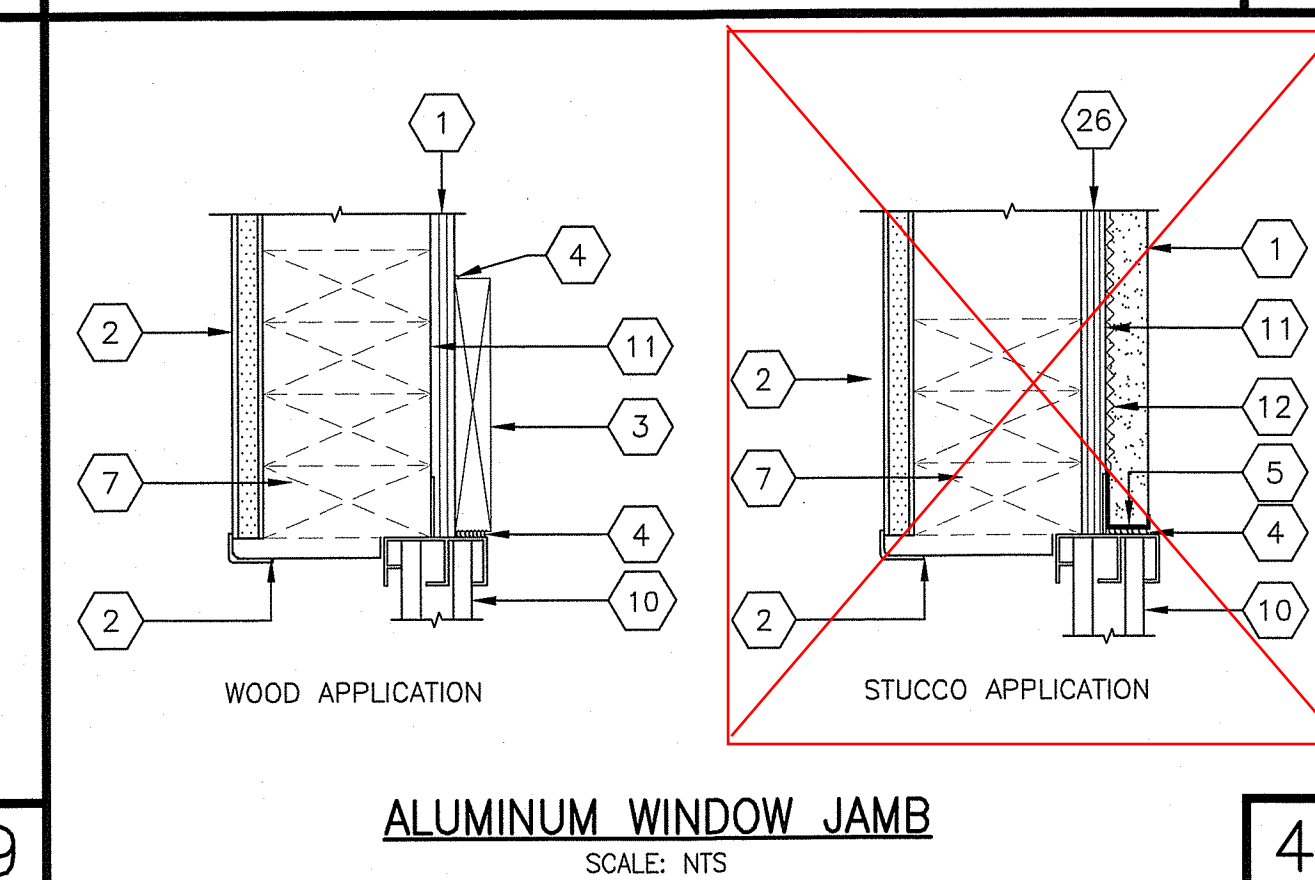
WASHERS AT ROOF FOR INSULATION STRAP  
SCALE: NTS



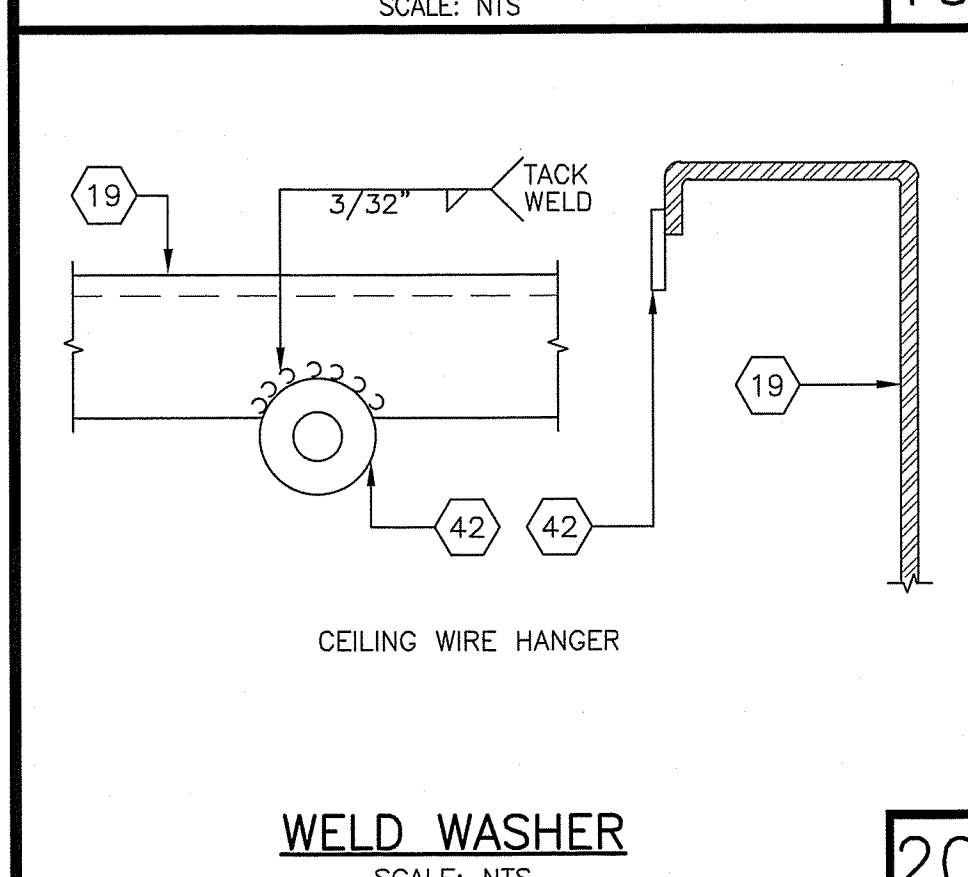
AC MOUNTING DETAIL  
SCALE: NTS



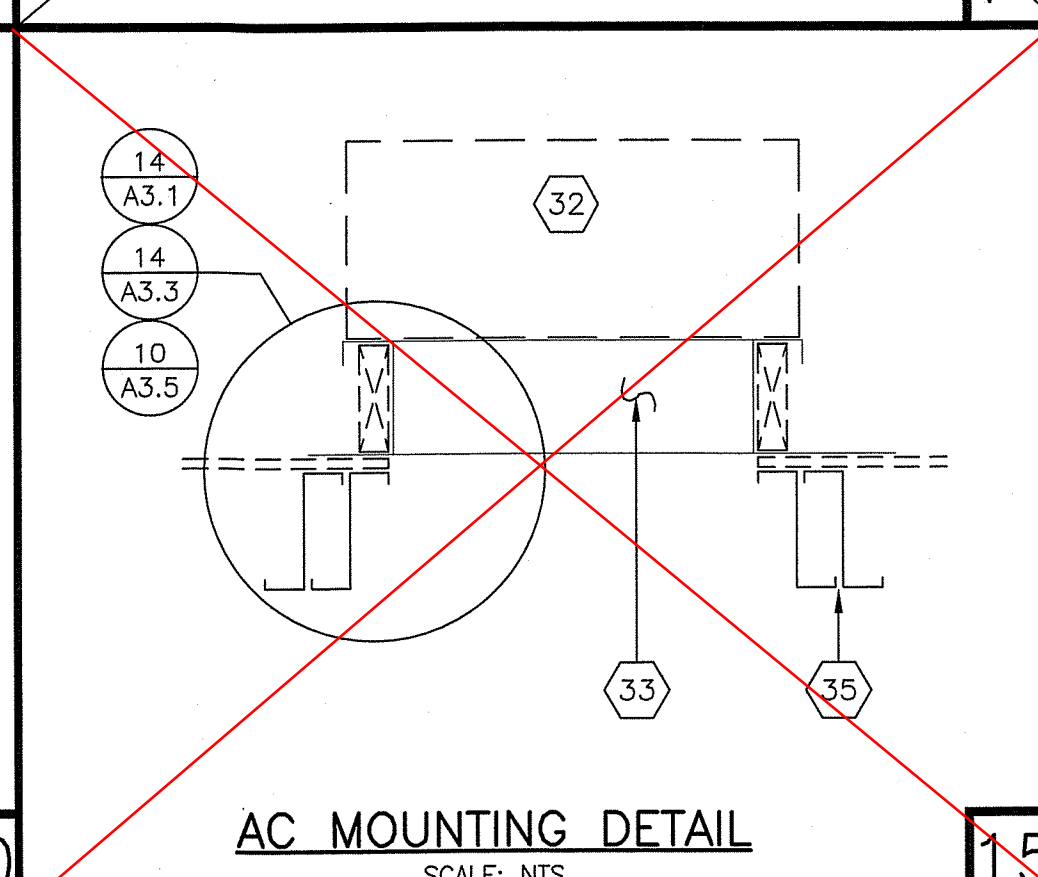
VENT AT OVERHANG SOFFIT  
SCALE: 3" = 1'-0"



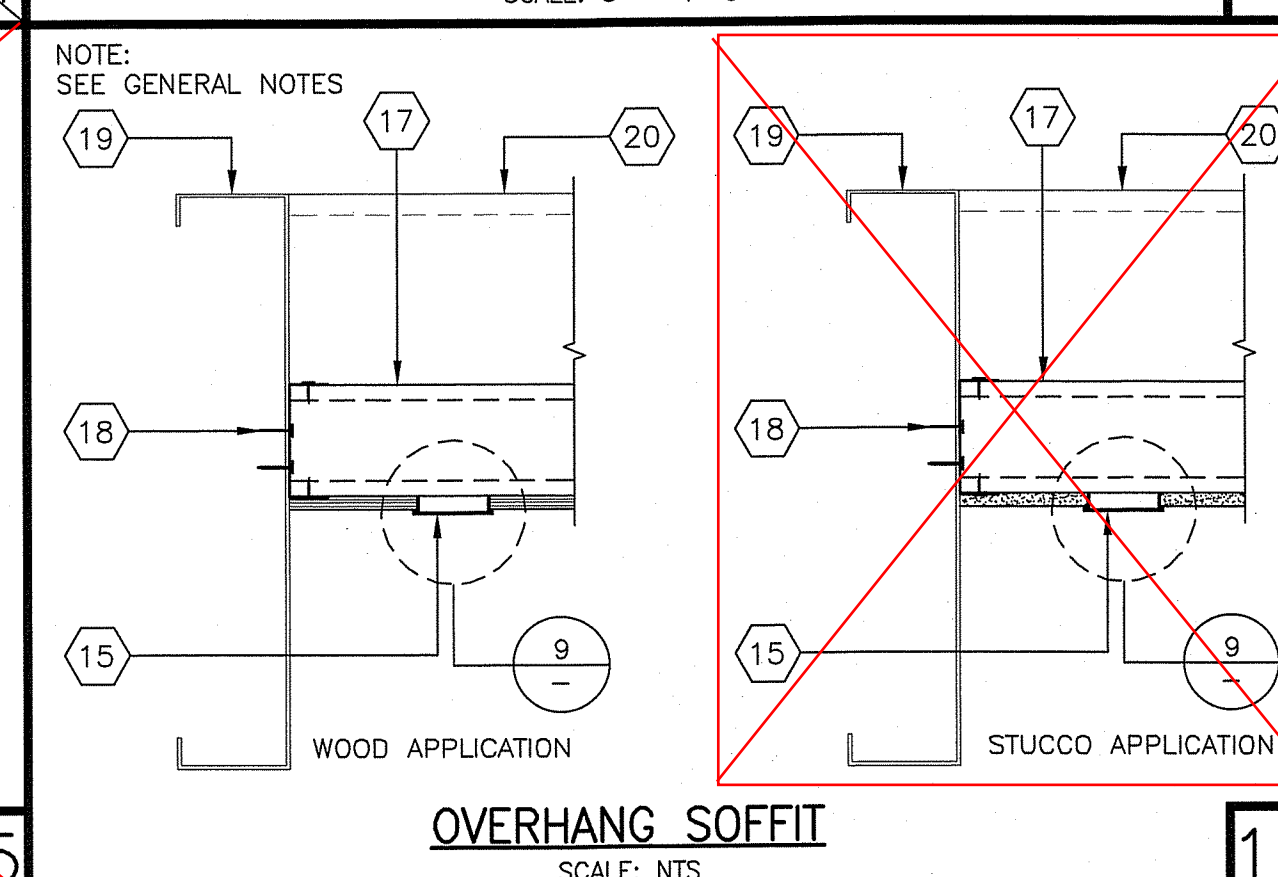
ALUMINUM WINDOW JAMB  
SCALE: NTS



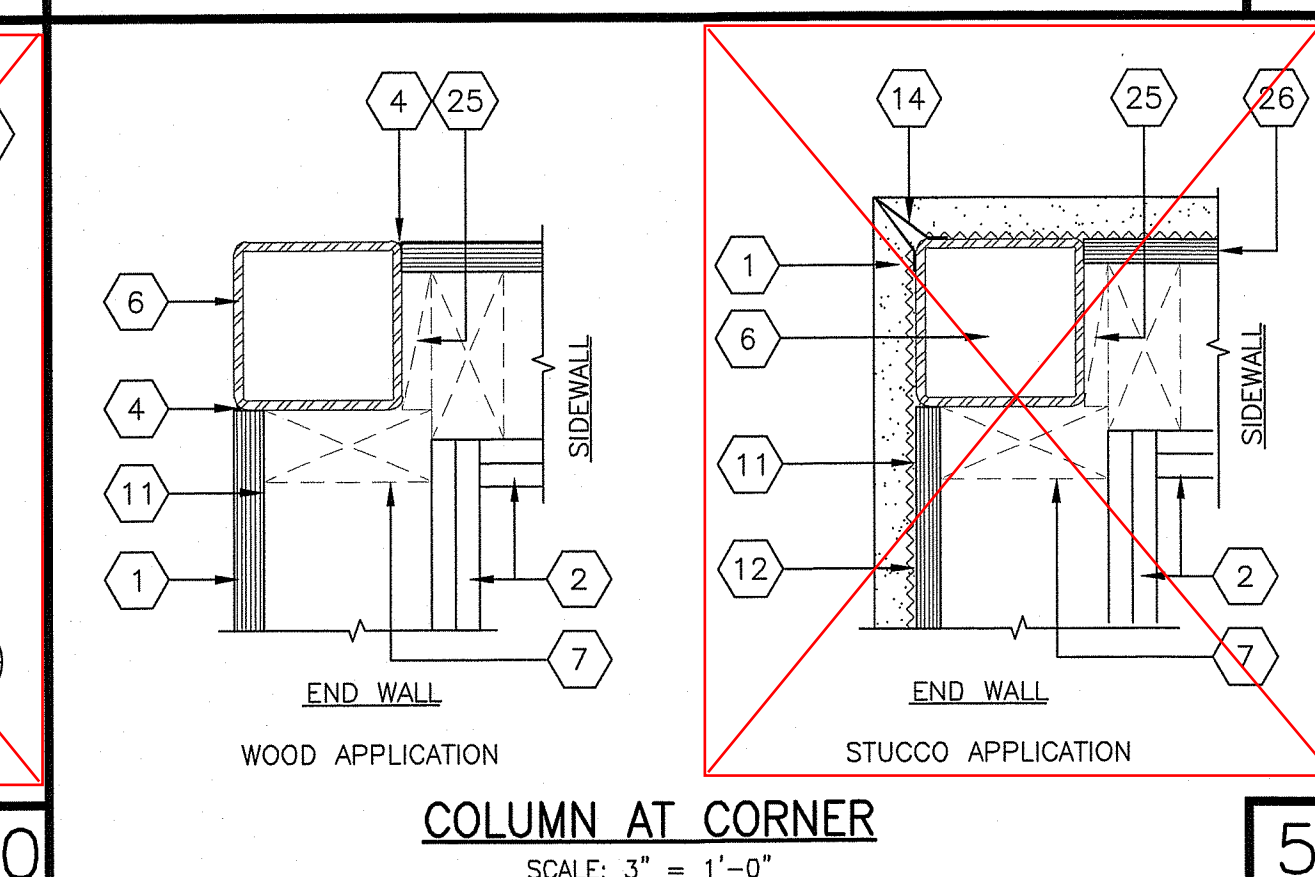
WELD WASHER  
SCALE: NTS



AC MOUNTING DETAIL  
SCALE: NTS



OVERHANG SOFFIT  
SCALE: NTS



COLUMN AT CORNER  
SCALE: 3" = 1'-0"

### KEY NOTES

- EXTERIOR FINISH (SEE CONSTRUCTION MATERIALS SCHEDULE)
- INTERIOR FINISH (SEE FINISH SCHEDULE)
- OPTIONAL TRIM - 5/4 ENGINEERED WOOD TRIM NAILED TO WALL @ 24" OC MAX (SEE NAILING SCHEDULE ON WALL FRAMING ELEVATION SHEET)
- PAINTABLE SEALANT USE ALSO AT LOCATIONS THAT NEED A WATER TIGHT SEAL WHERE EXTERIOR BUILDING MATERIALS MEET
- J-MOLD
- COLUMN
- WALL FRAMING - WOOD STUDS (SEE FRAMING SHEET)
- DOOR/WINDOW FRAME
- DOOR (SEE DOOR SCHEDULE)
- WINDOW (SEE WINDOW SCHEDULE)
- BUILDING PAPER
- SELF-FURRING METAL LATH
- 26 GA GALVANIZED SEISMIC FLASHING
- CONTROL JOINT - 7' - 1" A.F.F. OR VERIFY HEIGHT.
- 4"x10" VENT AT WOOD APPLICATION LOCATED 10" FROM OVERHANG PERIMETER AT EACH 12'-0" WIDE MODULE OVERHANG (SEE RCP)
- 3" CONTINUOUS AT STUCCO APPLICATION STARTING AT 10" FROM OVERHANG PERIMETER
- 4x BLOCK ATTACHED TO OVERHANG MEMBER WITH MIN #10 X 1-1/2" WS AT 24" OC
- C 3.5" X 20 GA METAL STUDS @ 16" OC ATTACH STUD TO TRACK WITH #8 SMS AT EACH FLANGE
- C 3.5" X 20 GA METAL TRACK TO ROOF HEADER WITH (2) #8 SMS AT 12" OC
- ROOF HEADER/BEAM
- OVERHANG MEMBER (STRUCTURAL ROOF FRAMING PLAN)
- PLYWOOD FLOOR (SEE STRUCTURAL FLOOR FRAMING PLAN)
- FLOOR SYSTEM (SEE STRUCTURAL FLOOR FRAMING PLAN)
- #8 SELF TAPPING SHEET METAL SCREW @ 24" OC
- NOT USED
- 2X PLYWOOD SPACER
- PLYWOOD SHEATHING (SEE WALL FRAMING ELEVATION SHEET)
- ROOF FINISH (SEE SHEET A0.2)
- ROOF INSULATION
- NOT USED
- COMPOSITION FLASHING
- NOT USED
- AG UNIT
- PREFABRICATED METAL CURB
- PLYWOOD FILLER AROUND CURB
- DOUBLE JOIST
- ATTACH METAL TRACK TO BLOCK WITH (2) #10 WOOD SCREW @ 12" OC
- 22 GA MIN FLASHING
- (0) #10x2" RH TEK SCREWS EACH SIDE OF CURB TO ROOF DECK
- 24 GA METAL STRAP, TOTAL OF (2) TOP AND BOTTOM AT 12" MIN FROM EACH END OF DOWNSPOUT WITH #8 SMS ON EACH SIDE
- ROOF JOIST
- STRAP FOR INSULATION
- WELD WASHER - 1 3/8" X 3/32" THICK WITH 9/16" HOLE, WELD TO UPPER CHANNEL FLANGE
- ATTACH STRAP TO WALL WITH #10 WOOD SCREW FOR WOOD SIDING APPLICATION; USE #10 STS FOR STUCCO FINISH APPLICATION
- ROOF STUB COLUMN
- SEISMIC THRESHOLD: USE #10 STS SECURE TO ONE SIDE ONLY OR INSTALL PER SPECIFIC THRESHOLD MANUFACTURER REQUIREMENTS
- HIDDEN LINE REPRESENT TO TRIM AND BEND STANDING SEAM FLAT AROUND A/C OPENING
- STUCCO WEEP SCREED (BEHIND BLDG PAPER): INSTALL WITH #10 STS

### GENERAL NOTES

- EXTERIOR PLYWOOD ATTACHED TO STUDS WITH CORROSION RESISTANT SCREWS (SEE WALL FRAMING ELEVATION SHEET FOR ATTACHMENT INFORMATION)
- (ALTERNATE EXT WALL FINISH) 7/8" STUCCO FINISH OVER SELF-FURRING LATH OVER PAPER OVER CD-X PLYWOOD SHEATHING SEE SHEET A0.2 FOR FELT PAPER, SELF-FURRING LATH AND CEMENT ATTACHMENT SEE WALL FRAMING ELEVATION SHEET FOR CD-X PLYWOOD ATTACHMENT NOTE: USE #10 X 3/4" WAFERHEAD STSMS AT 6" EN & 12" FN
- (STANDARD EXT WALL FINISH) 5/8" PLYWOOD SIDING (DURATEMP) SEE SHEET A0.2 FOR INFORMATION SEE WALL FRAMING ELEVATION SHEET FOR PLYWOOD SIDING ATTACHMENT
- (STANDARD SOFFIT FINISH) 5/8" PLYWOOD SIDING (DURATEMP) SEE SHEET A0.2 FOR INFORMATION, SEE WALL FRAMING ELEVATION SHEET FOR PLYWOOD SIDING ATTACHMENT (SIMILAR ATTACHMENT)
- (ALTERNATE SOFFIT FINISH) 7/8" STUCCO FINISH OVER 3/8" RIB LATH OVER FELT PAPER OVER CD-X PLYWOOD SHEATHING SEE SHEET A0.2 FOR FELT PAPER, RIB LATH AND CEMENT ATTACHMENT SEE WALL FRAMING ELEVATION SHEET FOR CD-X PLYWOOD ATTACHMENT NOTE: USE #8 X 3/8" STS (MIN 7/16" HEAD DIA) WITH 1/4" OD X 1/4" ID WASHERS AT 7" EN & 7" FN
- SOFFIT NOTE: THE NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE TO BE VENTILATED

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
INCORPORATED

**AURORA MODTECH**  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
1000 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 666-5800  
FAX: (559) 666-5700  
WEBSITE: WWW.GDMV.NET

SOUTHERN CALIFORNIA DIVISION  
1800 CHICAGO AVE., SUITE #N-21  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3662  
WEBSITE: WWW.GDMV.NET

THIS DRAWING AND THE MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

**ARCHITECTURAL DETAILS**

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

**PROFESSIONAL SEAL**  
No. 36082  
STATE OF CALIFORNIA

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2018 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # 837357  
AD: 4  
REV: 2  
DATE: DEC 14 2018

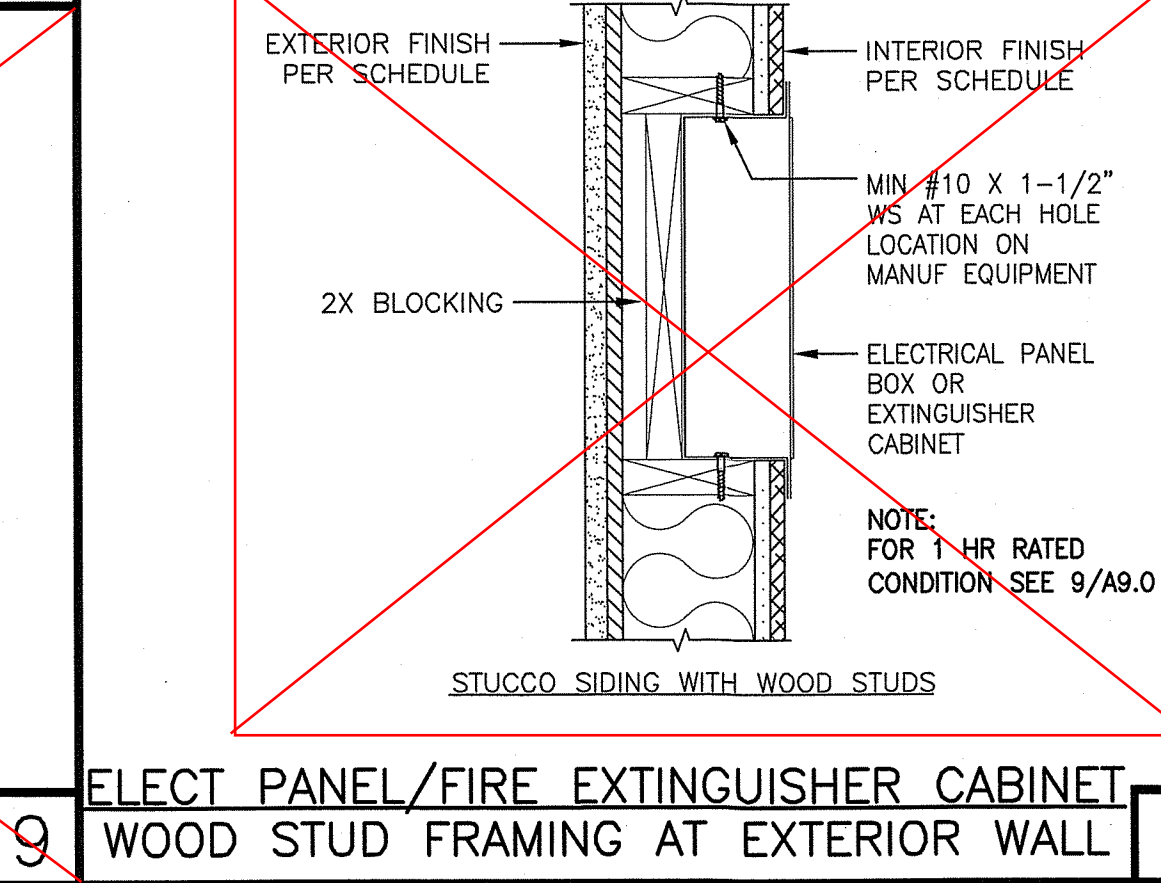
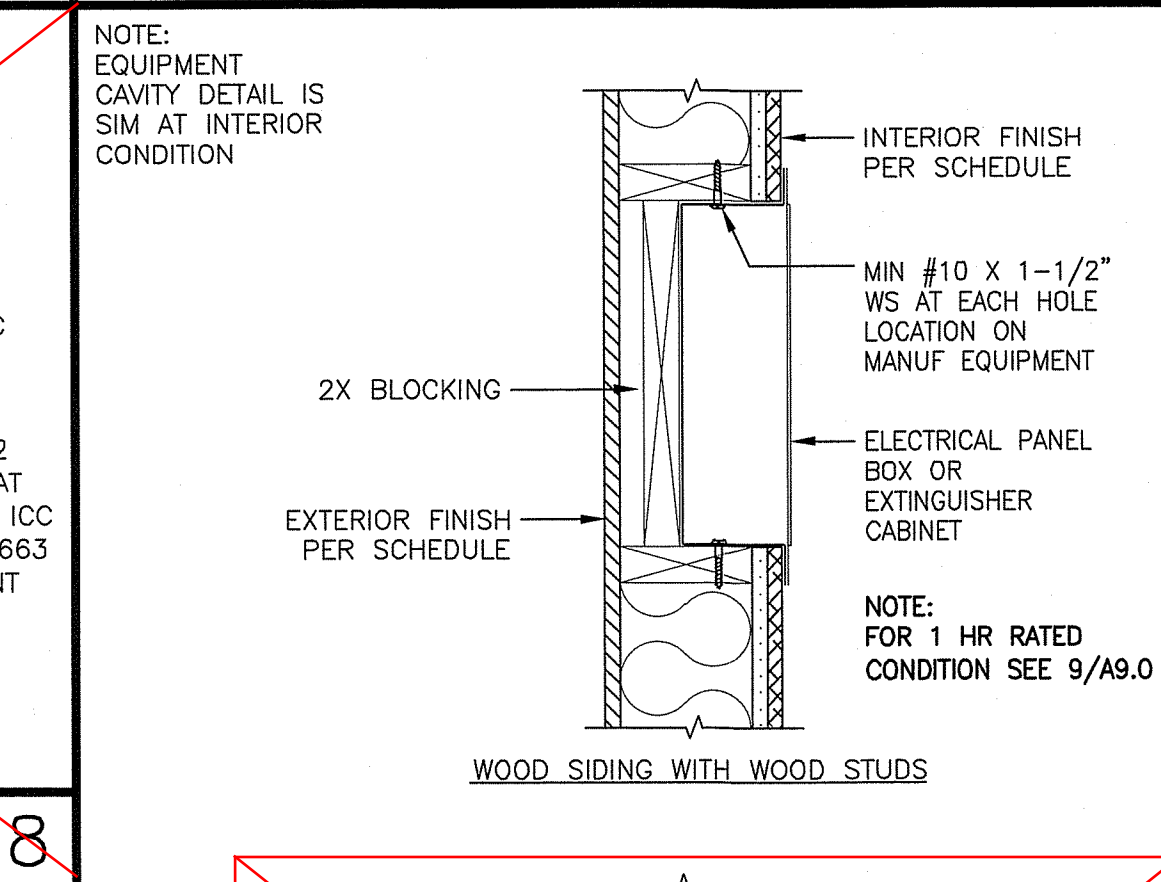
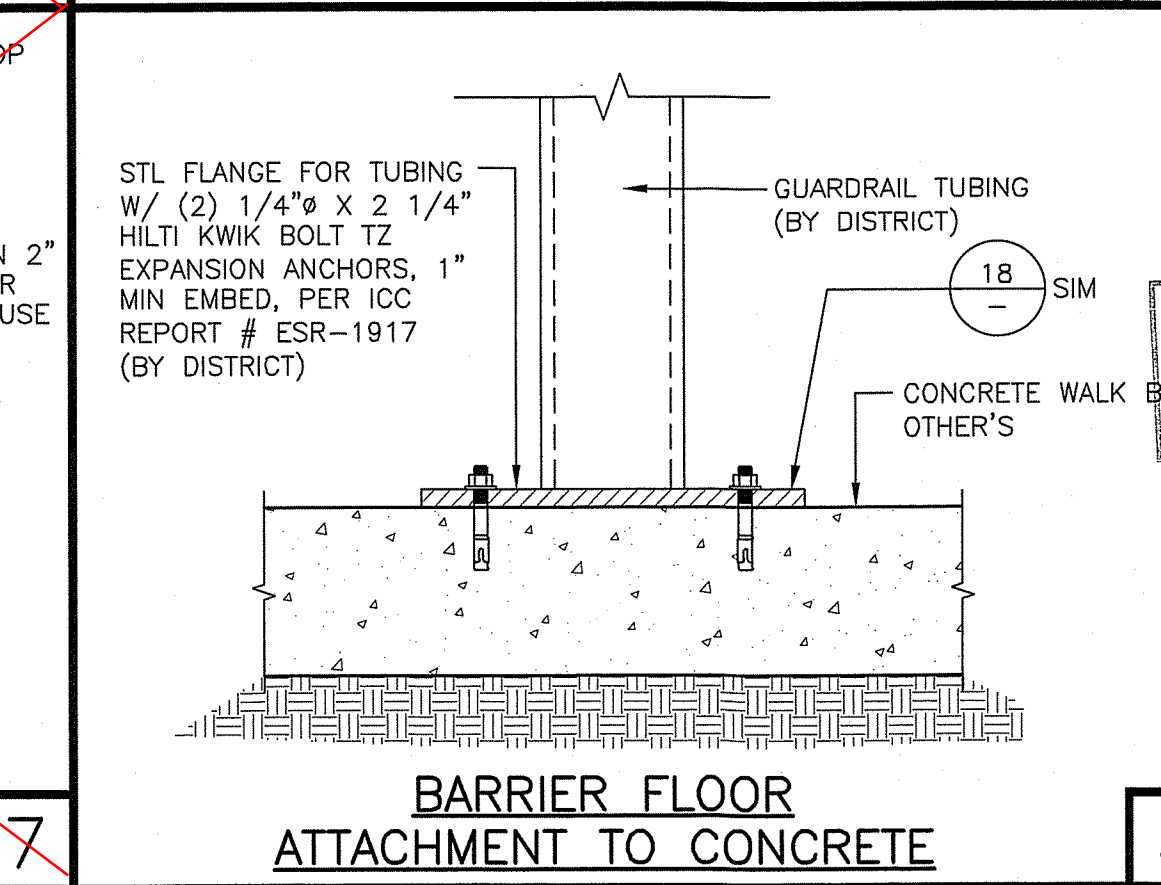
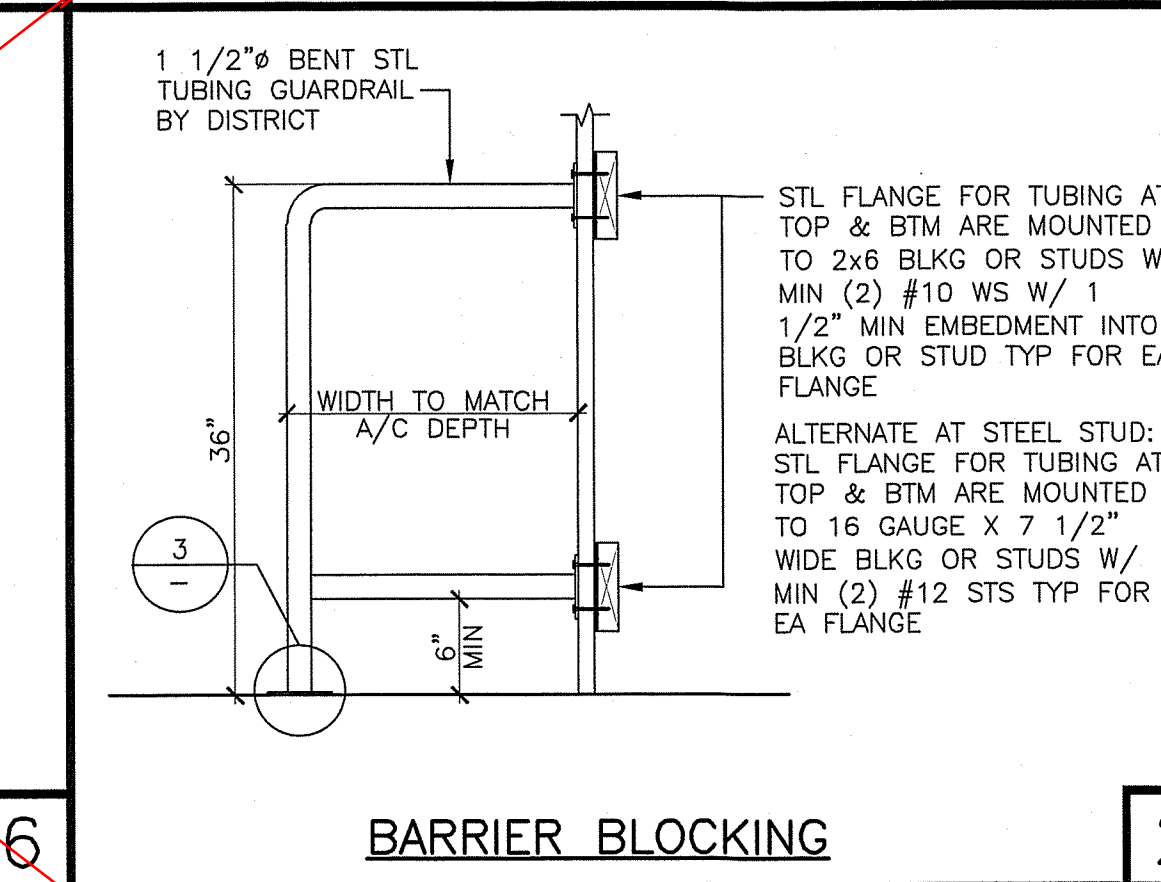
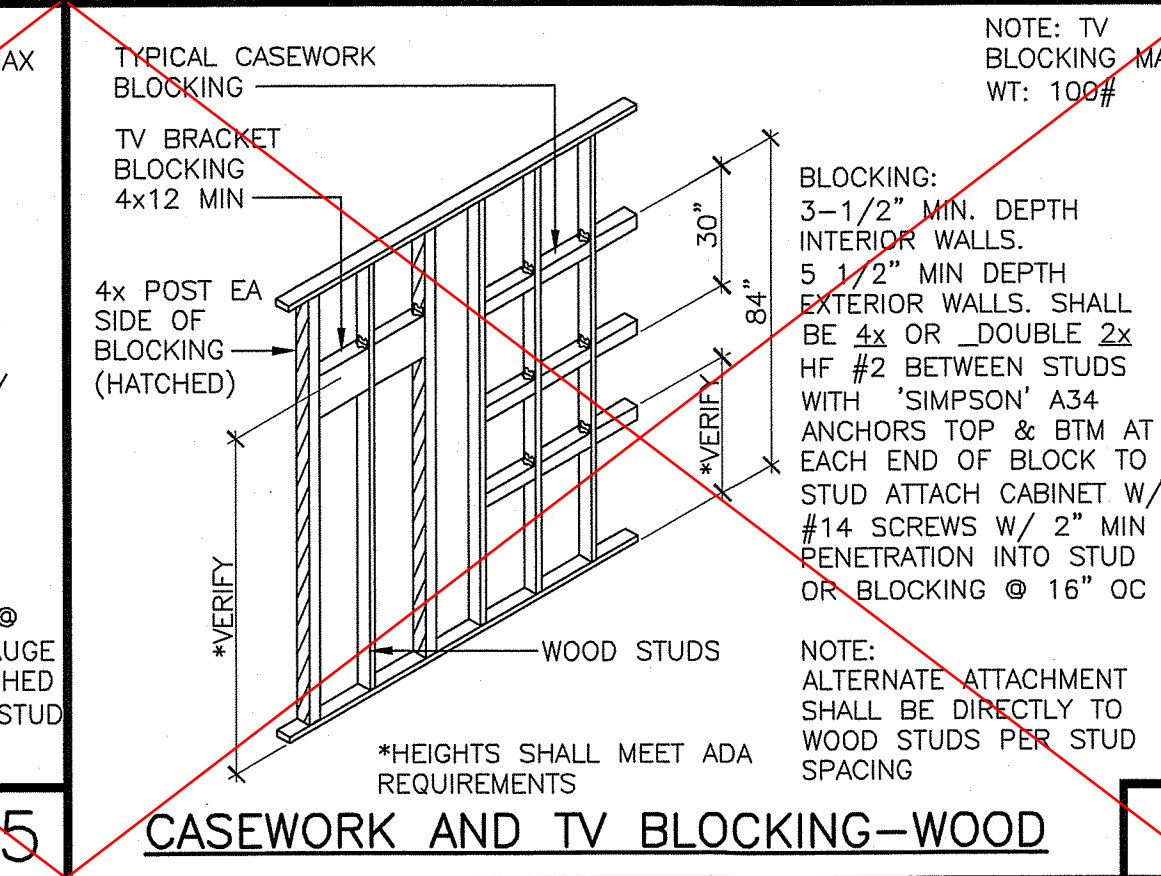
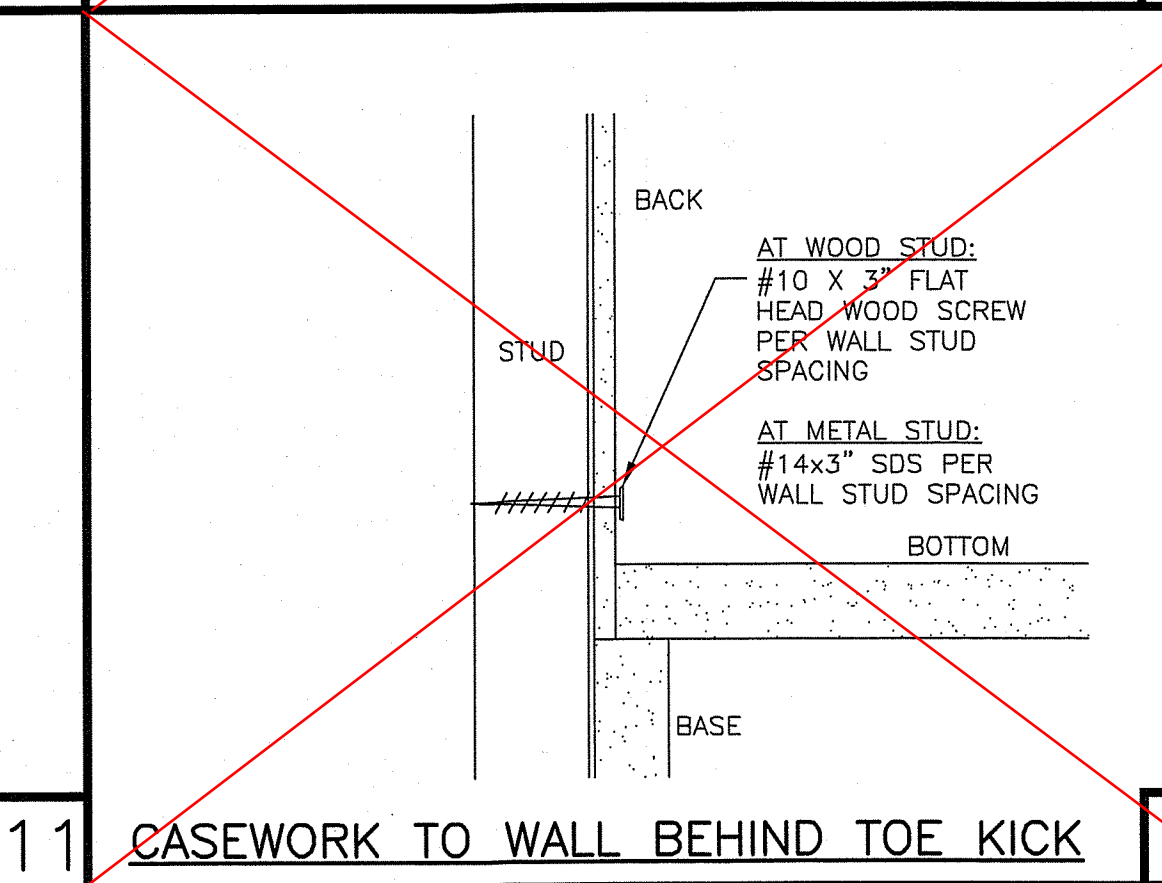
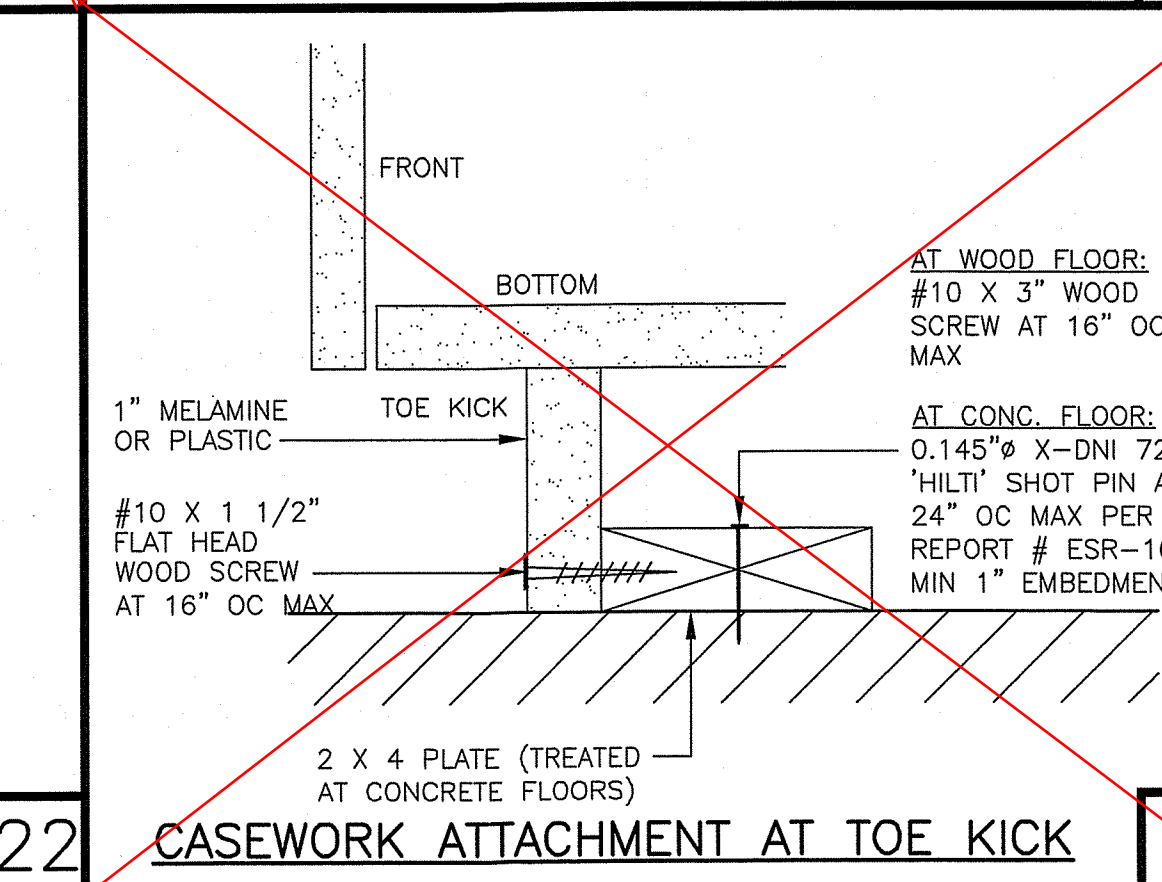
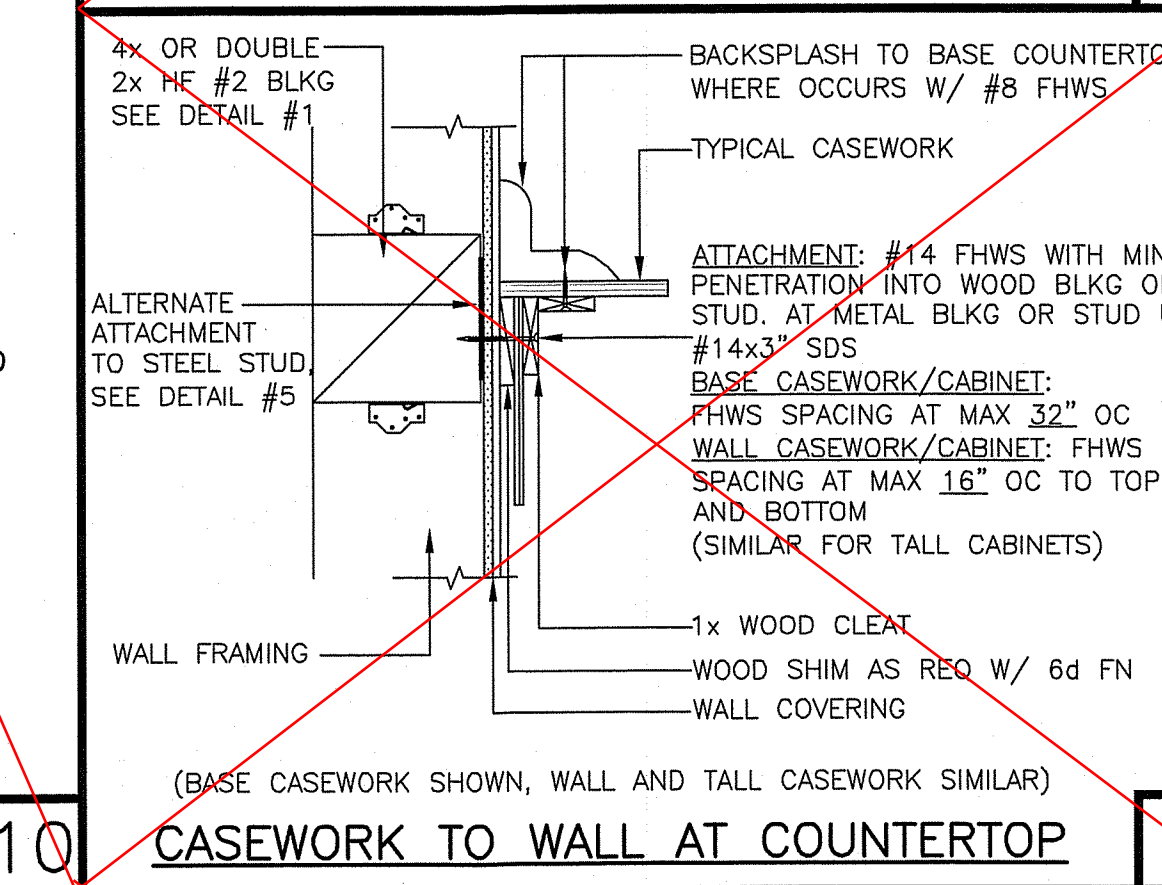
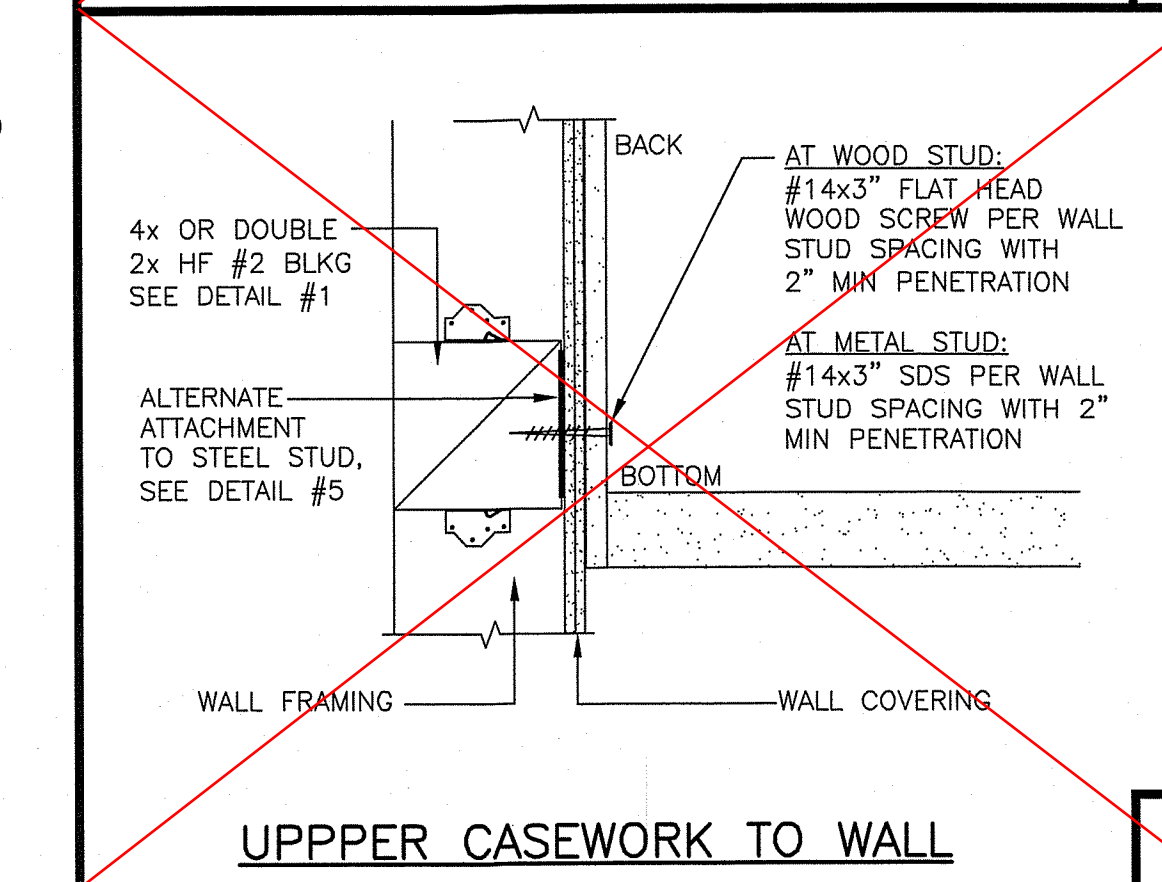
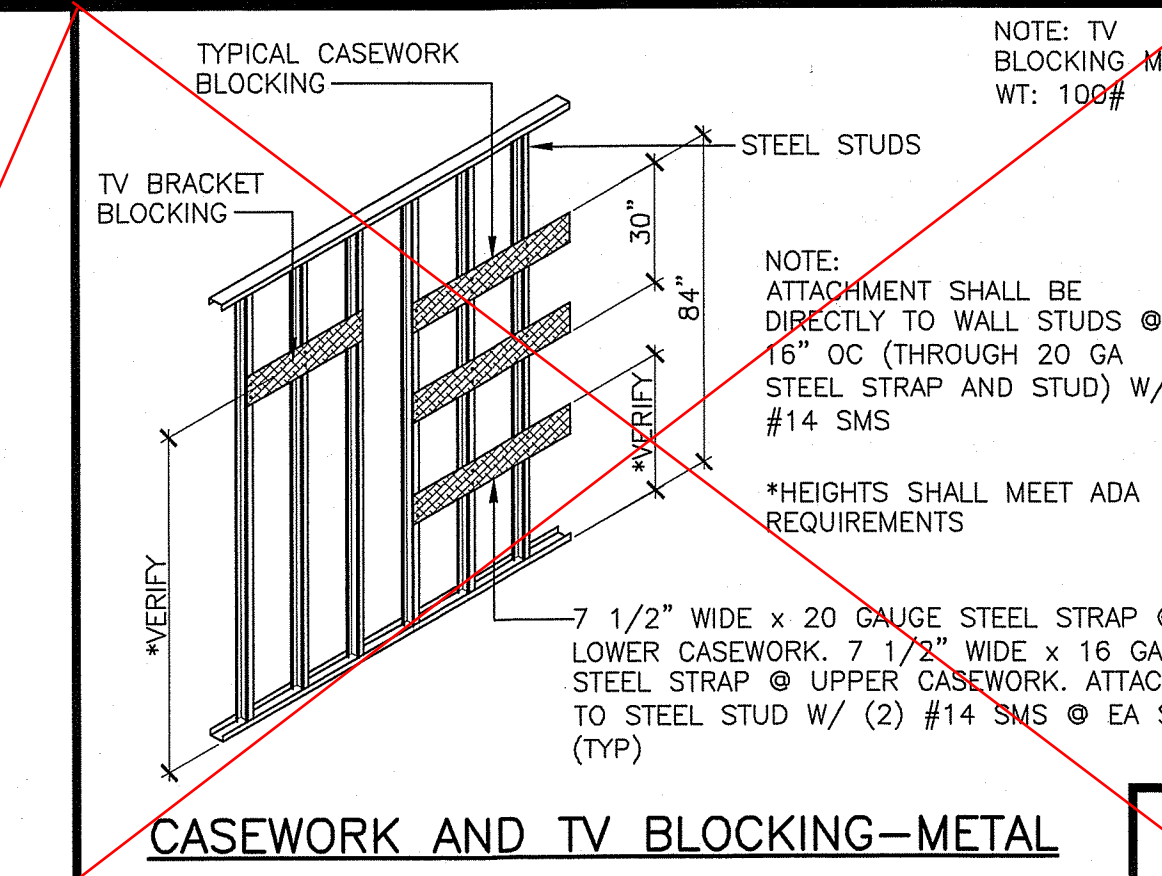
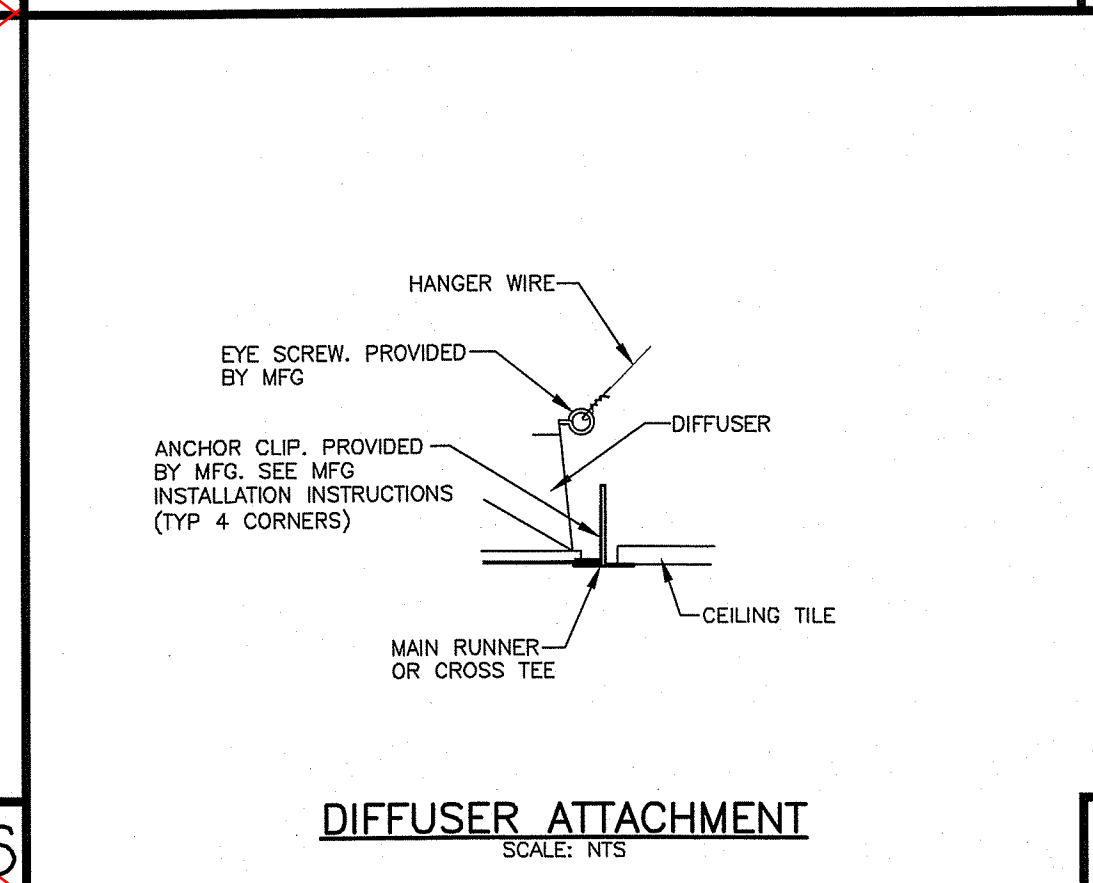
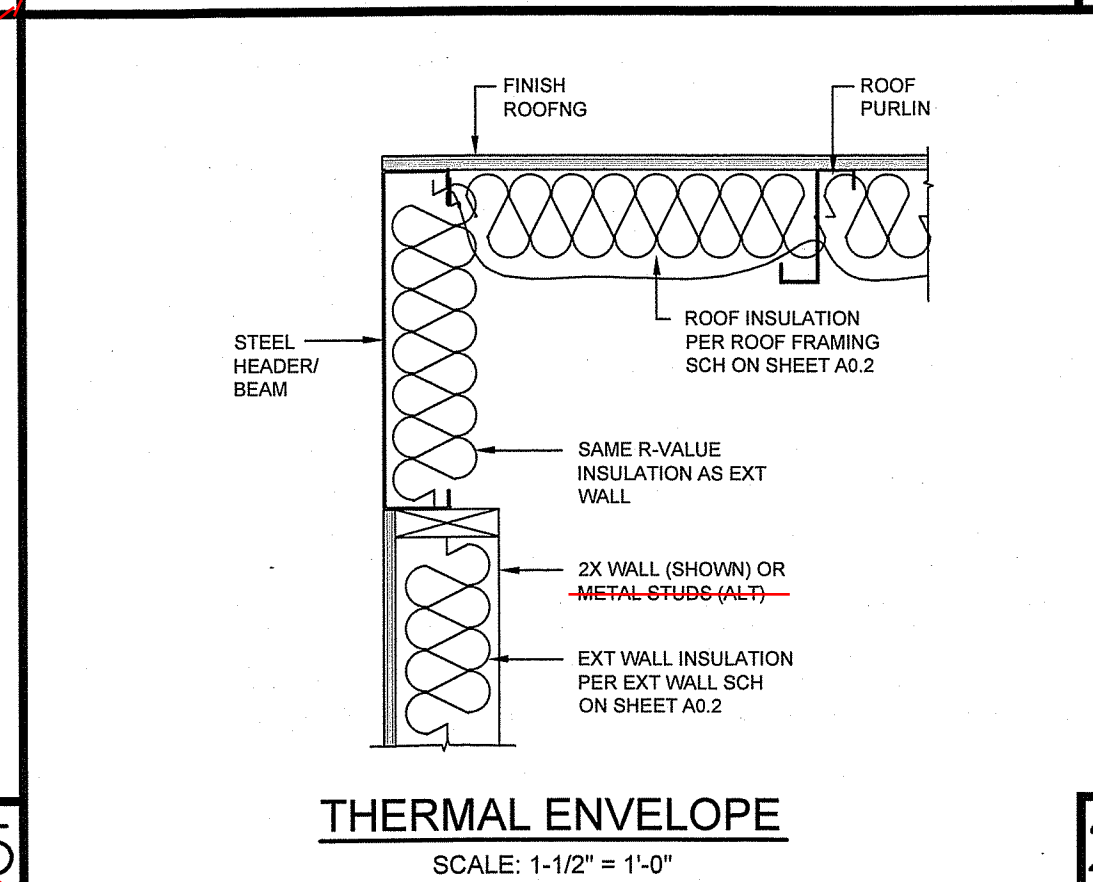
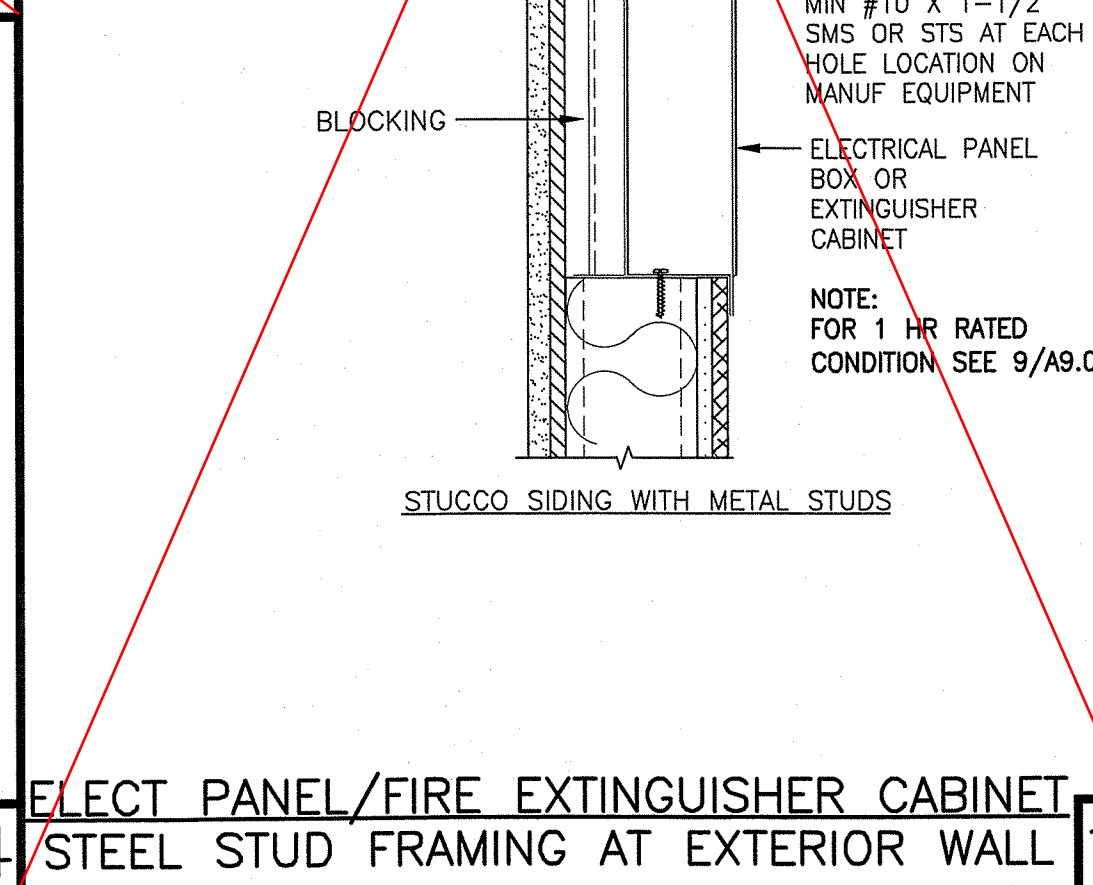
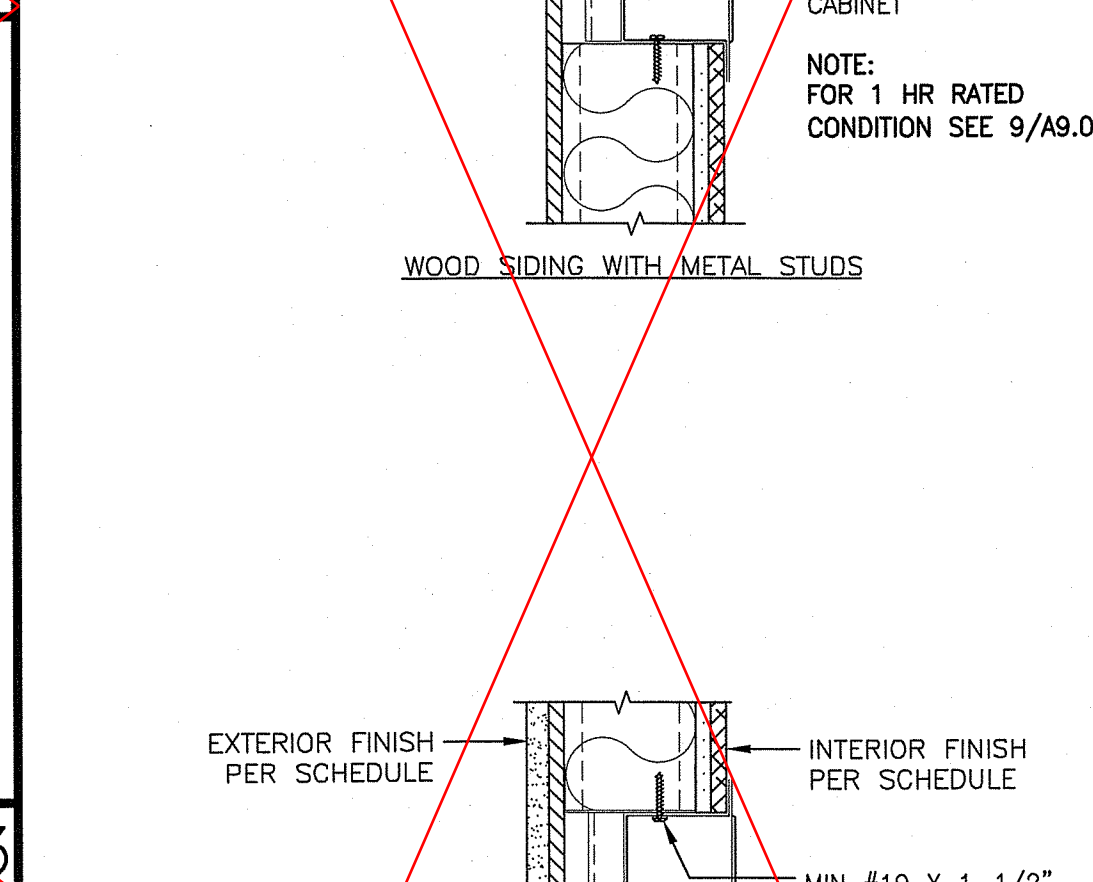
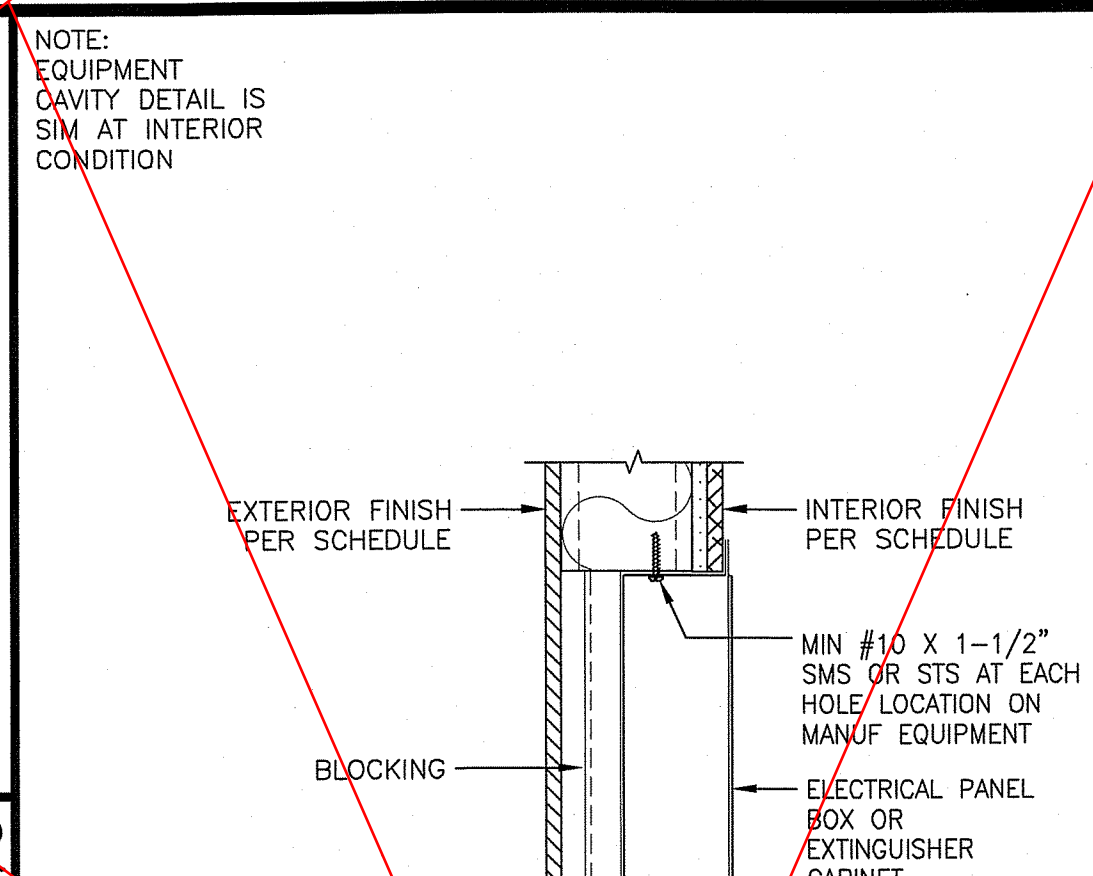
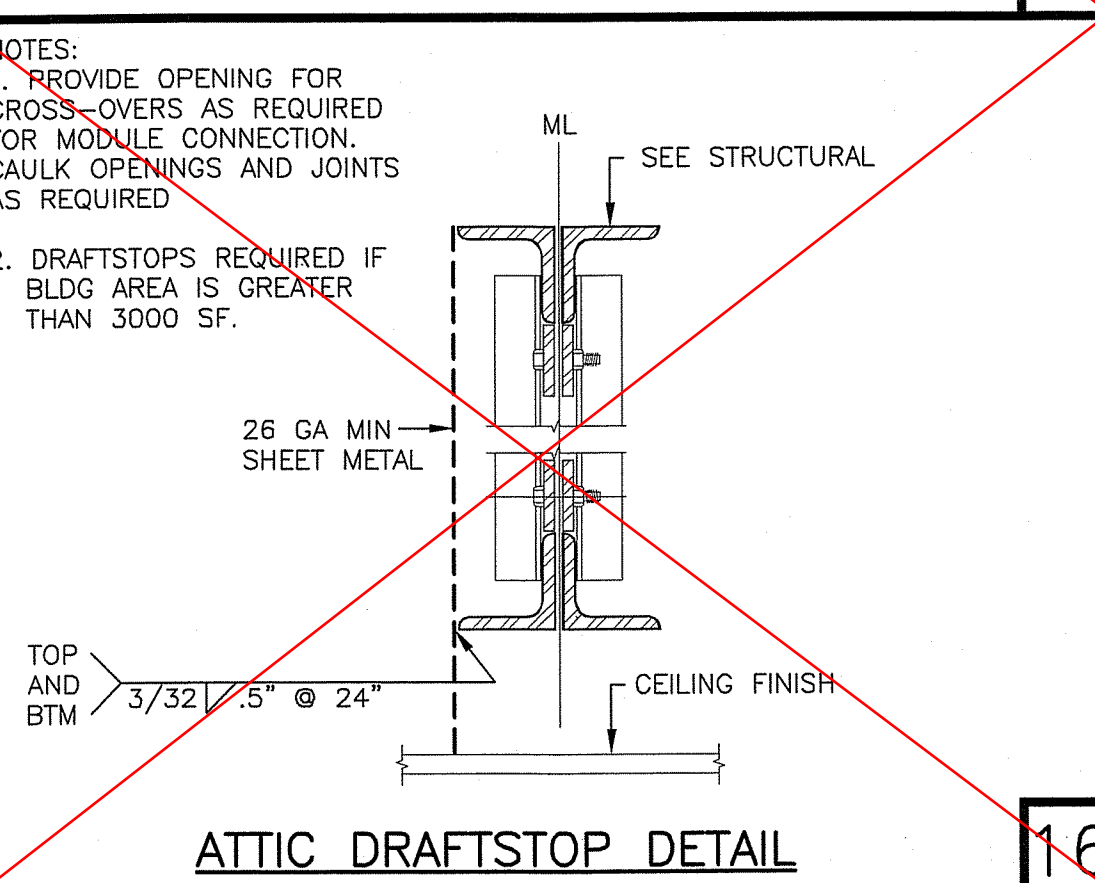
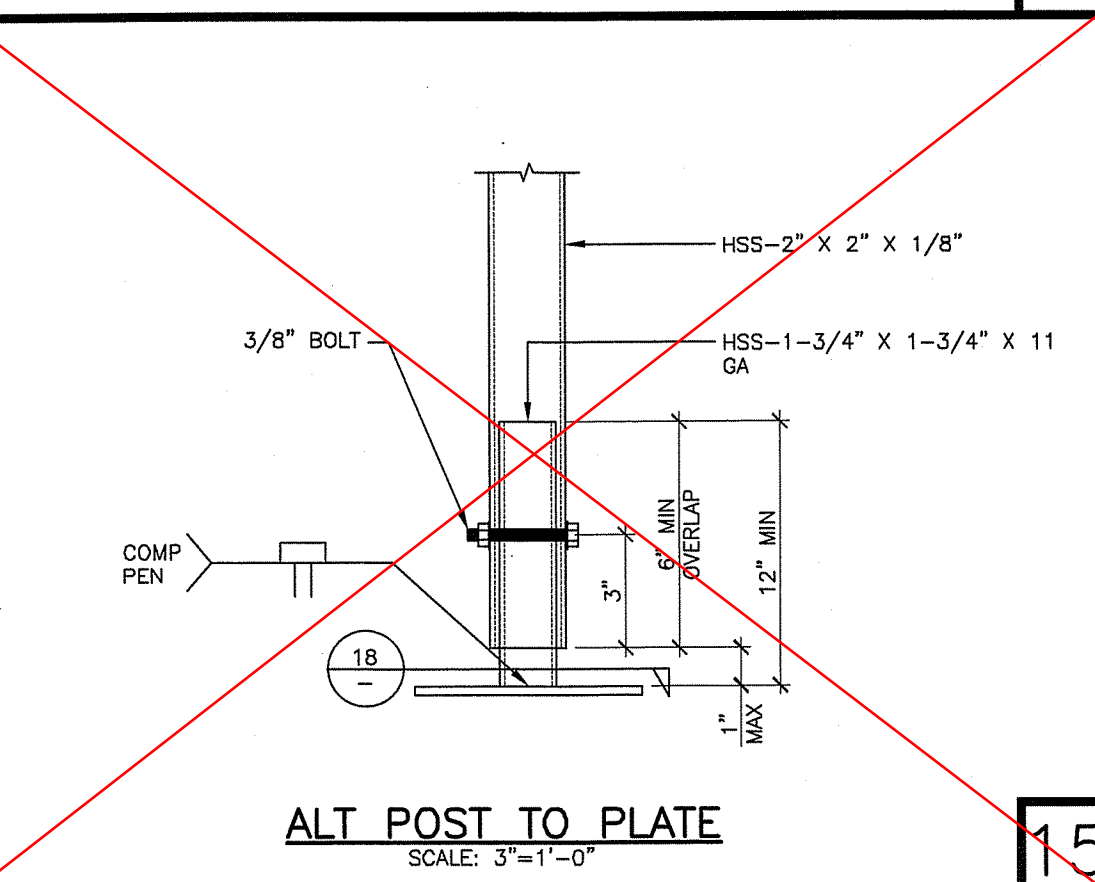
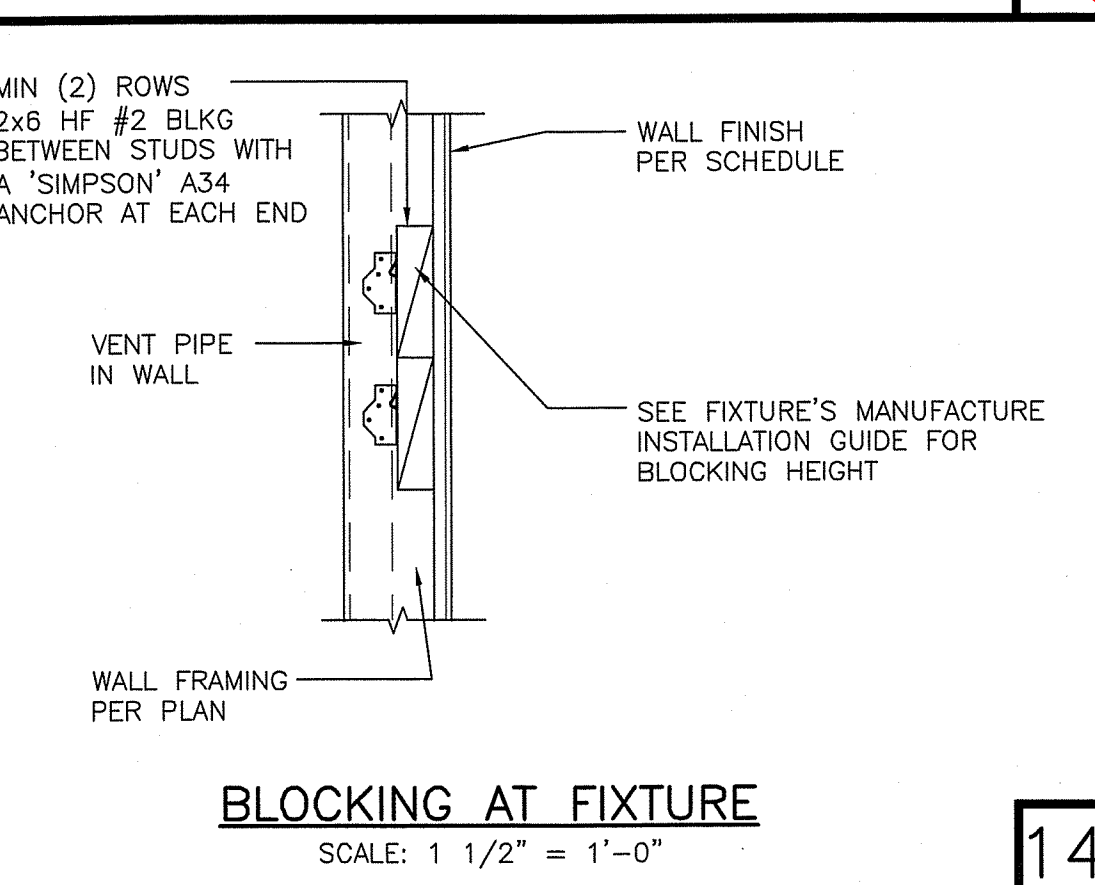
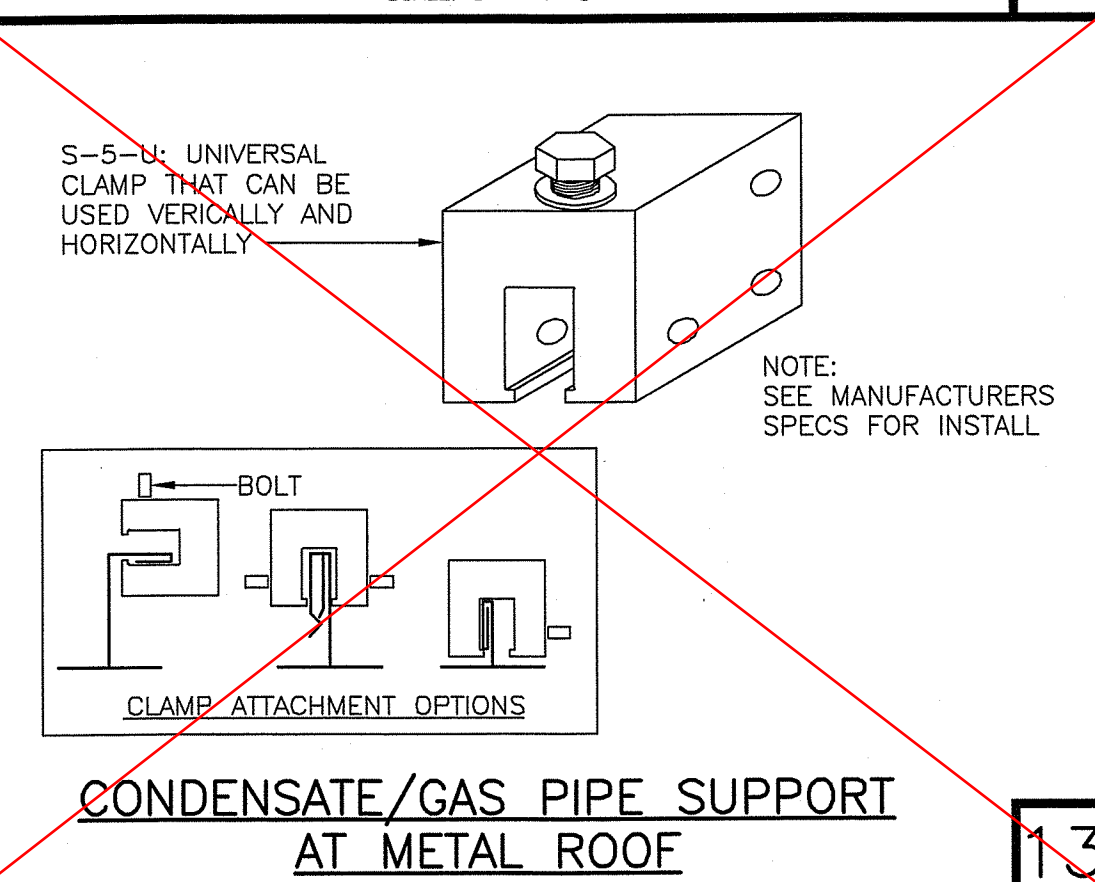
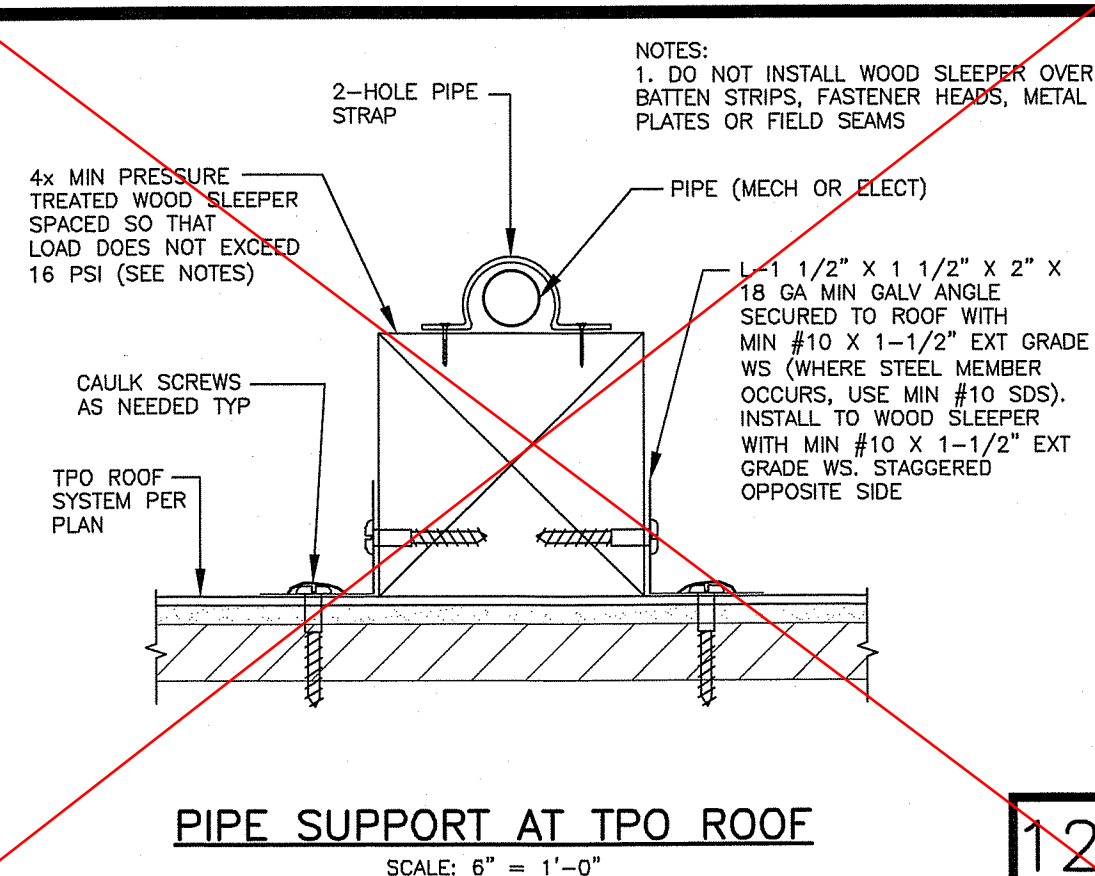
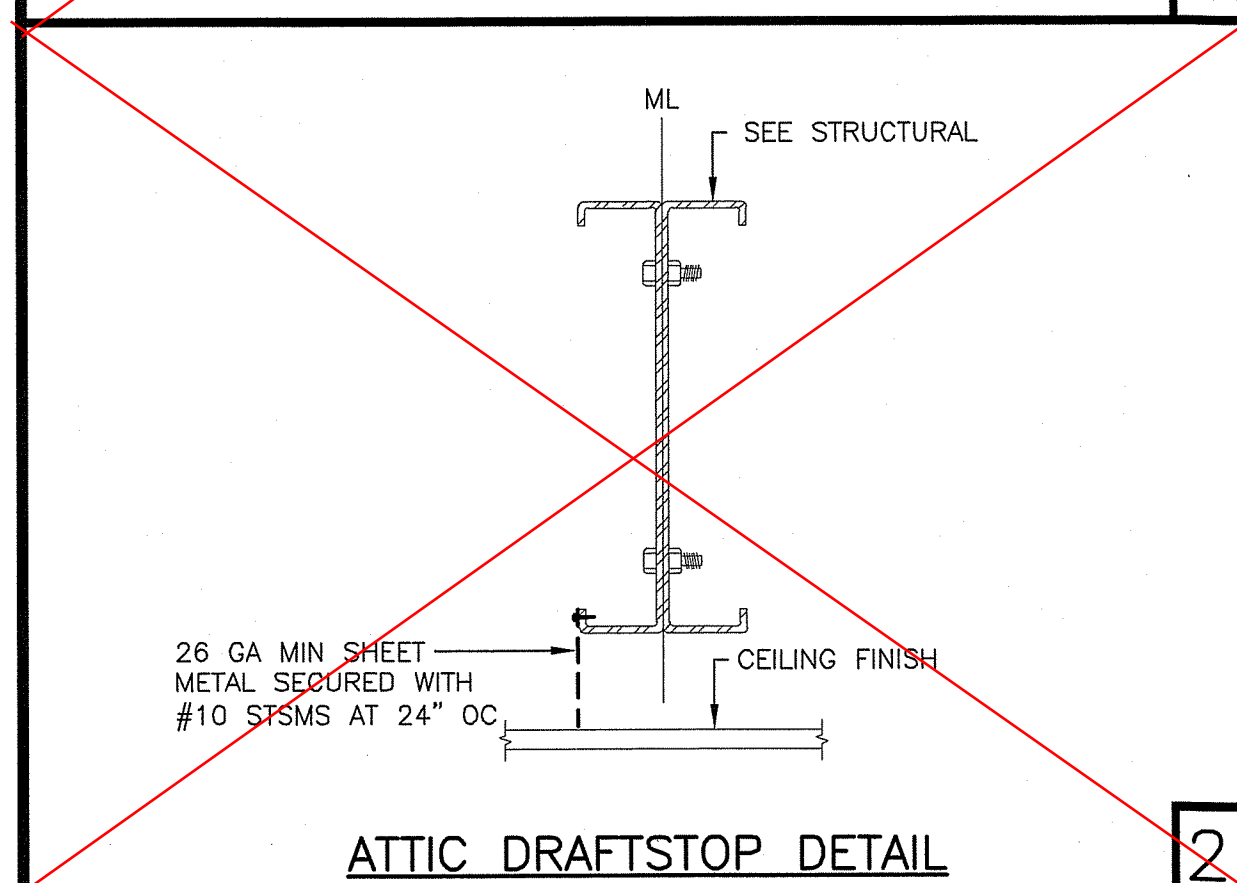
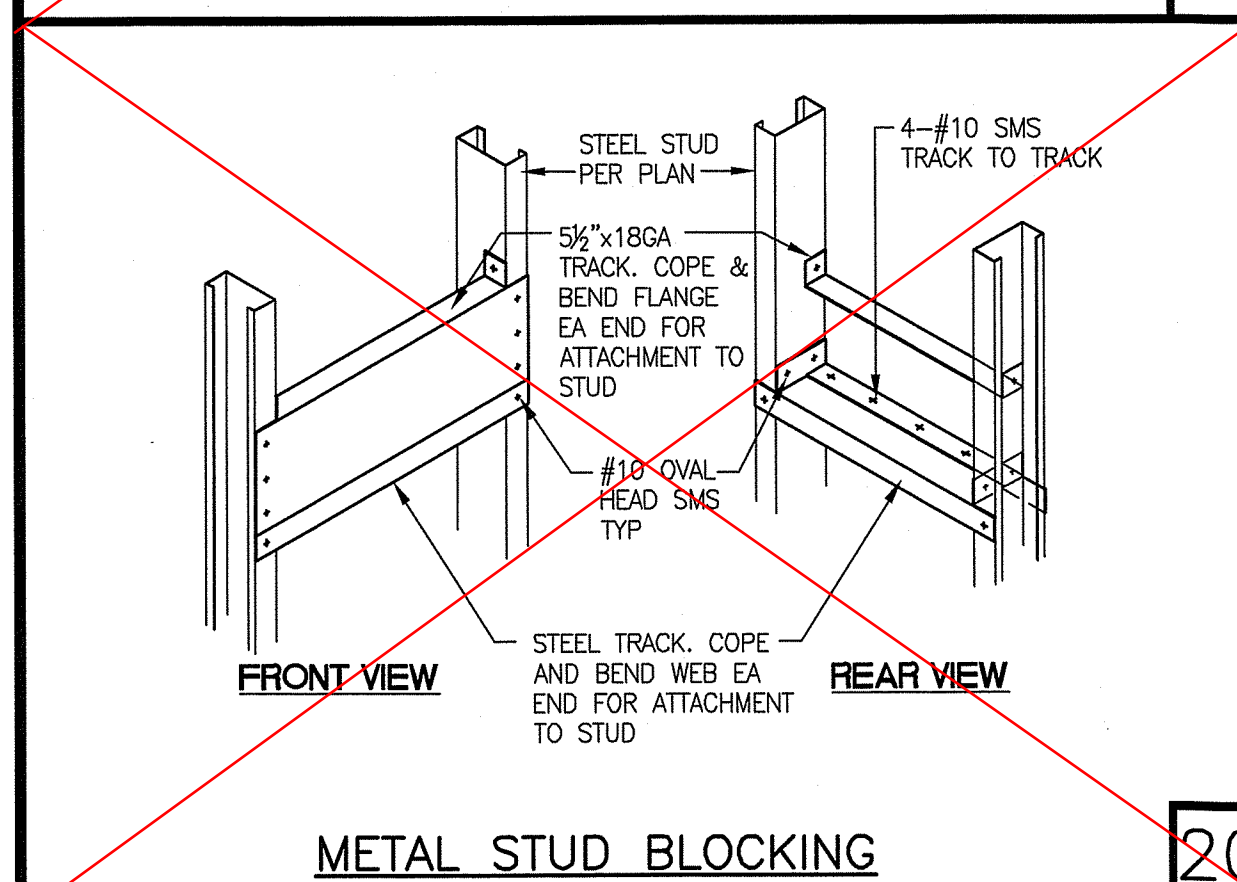
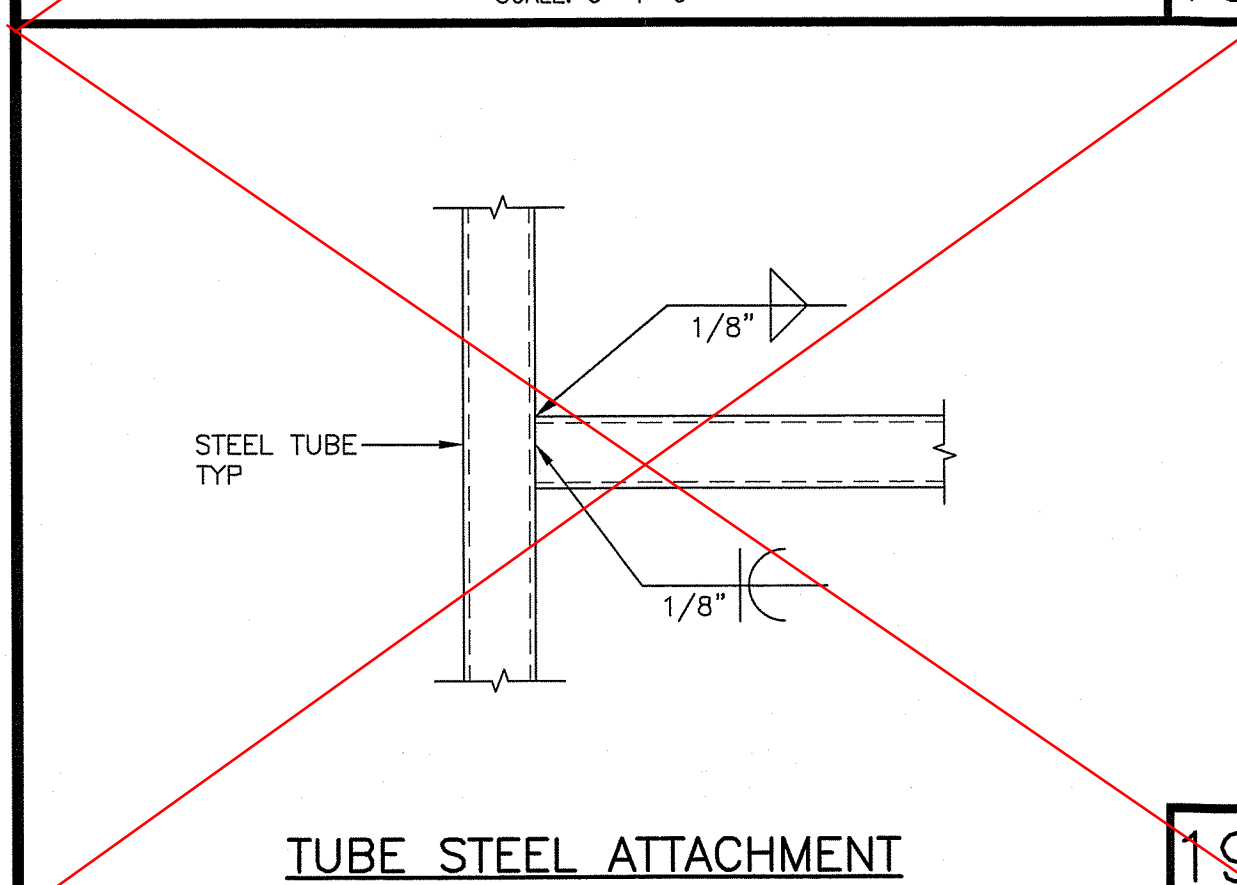
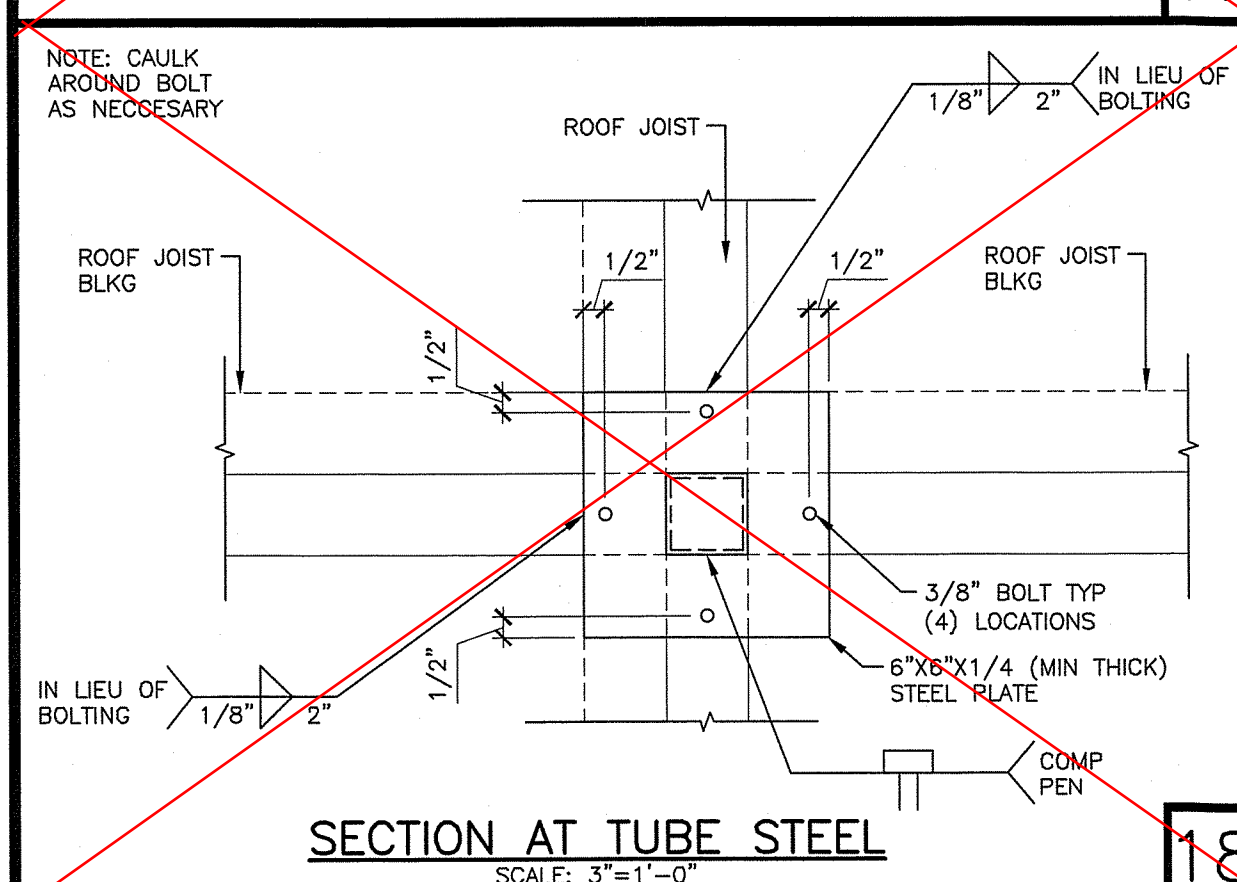
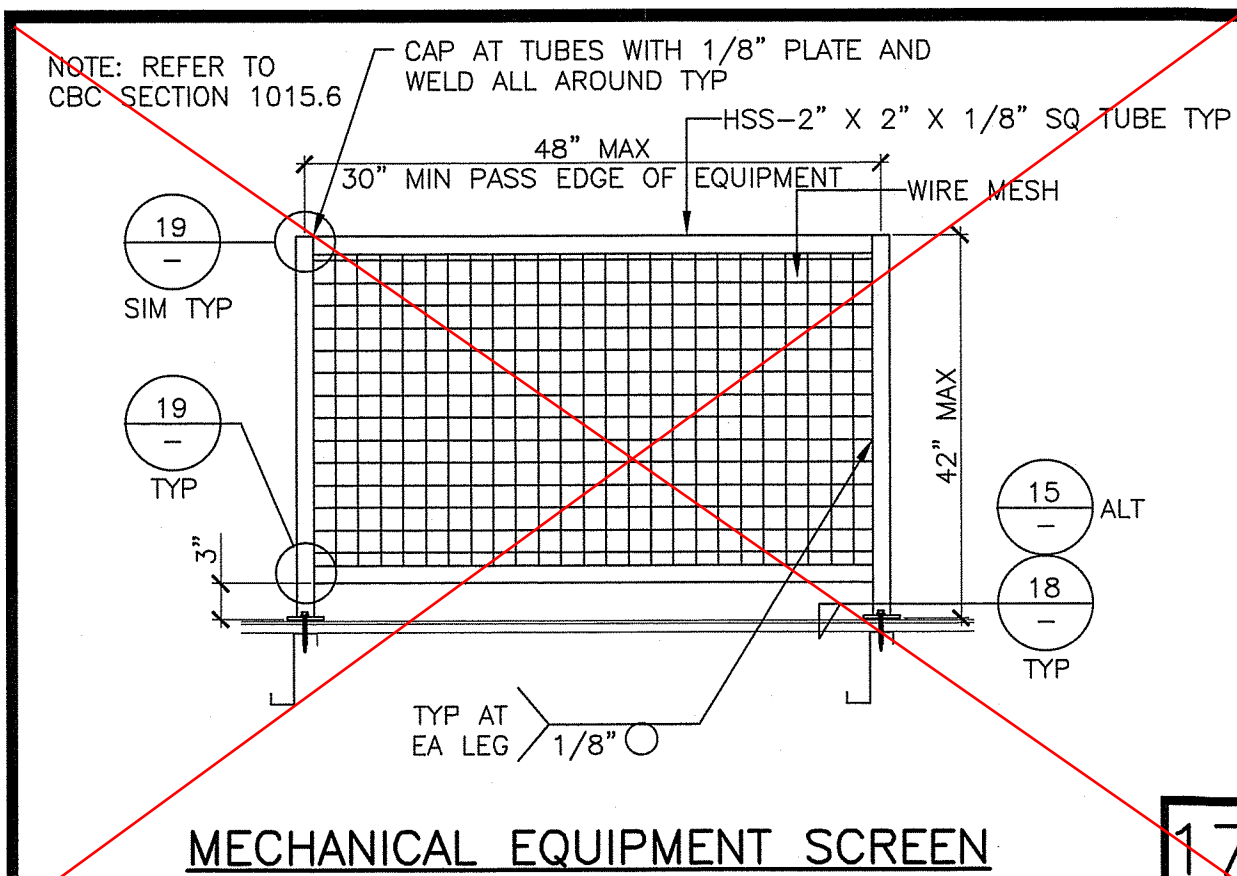
REVISIONS

-	
-	
-	
-	
-	
-	
-	
-	
-	
-	

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER

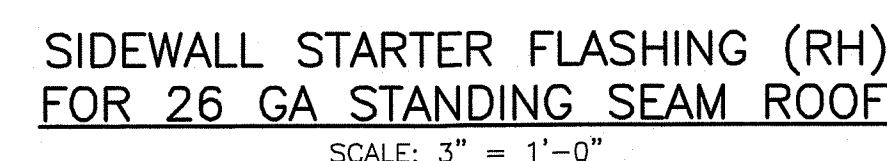
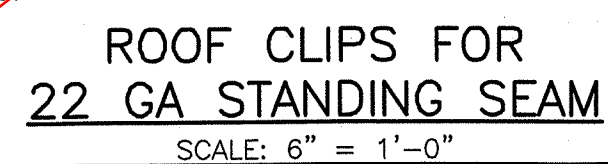
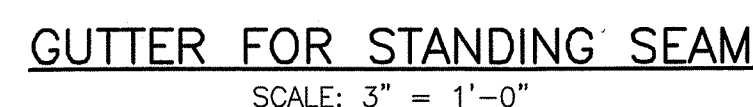
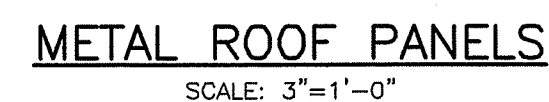
# A8.0





<b>PROJECT SPECIFIC STATE AGENCY APPROVAL</b>	
<div style="border: 2px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: 0 auto;"><div style="text-align: center; font-size: 0.8em; margin-bottom: 5px;">IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT</div><div style="text-align: center; font-weight: bold; margin-bottom: 5px;">APP: 02-118411 INC:</div><div style="text-align: center; font-size: 0.8em; margin-bottom: 5px;">REVIEWED FOR</div><div style="display: flex; justify-content: space-around; font-size: 0.8em;"><span>SS <input checked="" type="checkbox"/></span><span>FLS <input checked="" type="checkbox"/></span><span>ACS <input checked="" type="checkbox"/></span></div><div style="text-align: center; font-size: 0.8em;">DATE: 06/11/2020</div></div>	
<div style="display: flex; align-items: center; justify-content: center;"><div style="text-align: center;"> <b>GLOBAL</b> <i>Incorporated</i></div><div style="margin: 0 20px;"> <b>AURORA MODTECH</b> <small>DESIGNS</small></div><div style="text-align: center;"> <b>MODULAR STRUCTURES INTERNATIONAL INC.</b> <small>DESIGNS</small></div></div> <div style="text-align: center; margin-top: 10px;">CONTRACTORS LICENSE #837357</div>	
<b>NORTHERN CALIFORNIA DIVISON</b> 1200 AIRPORT DRIVE CHOWCHILLA, CA 93610 PHONE: (559) 665-5800 FAX: (559) 665-5700 WEBSITE: <a href="http://WWW.GDMV.NET">WWW.GDMV.NET</a>	<b>SOUTHERN CALIFORNIA DIVISON</b> 1860 CHICAGO AVE., SUITE #M-21 RIVERSIDE, CA 92507 PHONE: (951) 686-3633 FAX: (951) 686-3662 WEBSITE: <a href="http://WWW.GDMV.NET">WWW.GDMV.NET</a>
<p>THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.</p>	
PROJECT NAME:	
SHEET TITLE:	
<h2 style="margin: 0;">ARCHITECTURAL DETAILS</h2>	
MFR. STRUCTURAL ENGINEER OF RECORD ON PC	
<div style="display: flex; align-items: center; justify-content: center;"><div style="margin-right: 20px;">DATE SIGNED <b>DEC 11 2018</b></div><div style="text-align: center;"></div></div>	
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD	
ARCHITECT OF RECORD	
PRE-CHECK (PC) DOCUMENT CODE: 2018 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED	
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"><div style="text-align: center; font-size: 0.7em; margin-bottom: 5px;">IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT</div><div style="text-align: center; font-weight: bold; margin-bottom: 5px;">PC 02-116677</div><div style="text-align: center; font-size: 0.7em; margin-bottom: 5px;">FILE #: PC-72</div><div style="display: flex; justify-content: space-between; font-size: 0.7em; margin-bottom: 5px;"><span>AC</span><span>FLS</span><span>SS</span></div><div style="text-align: center; font-size: 0.7em;">DATE: DEC 14 2018</div></div>	
REVISIONS	
<div style="display: flex; align-items: center;"><div style="width: 20px; text-align: center;">1</div><div style="width: 20px; text-align: center;">2</div><div style="width: 20px; text-align: center;">3</div><div style="width: 20px; text-align: center;">4</div><div style="flex-grow: 1; border-bottom: 1px solid black;"></div></div>	
<div style="display: flex; align-items: center;"><div style="width: 20px; text-align: center;">5</div><div style="width: 20px; text-align: center;">6</div><div style="width: 20px; text-align: center;">7</div><div style="width: 20px; text-align: center;">8</div><div style="width: 20px; text-align: center;">9</div><div style="width: 20px; text-align: center;">10</div><div style="flex-grow: 1; border-bottom: 1px solid black;"></div></div>	
<div style="display: flex; align-items: center;"><div style="width: 20px; text-align: center;">11</div><div style="width: 20px; text-align: center;">12</div><div style="width: 20px; text-align: center;">13</div><div style="width: 20px; text-align: center;">14</div><div style="width: 20px; text-align: center;">15</div><div style="width: 20px; text-align: center;">16</div><div style="width: 20px; text-align: center;">17</div><div style="width: 20px; text-align: center;">18</div><div style="width: 20px; text-align: center;">19</div><div style="width: 20px; text-align: center;">20</div><div style="flex-grow: 1; border-bottom: 1px solid black;"></div></div>	
<div style="display: flex; align-items: center;"><div style="width: 20px; text-align: center;">21</div><div style="width: 20px; text-align: center;">22</div><div style="width: 20px; text-align: center;">23</div><div style="width: 20px; text-align: center;">24</div><div style="width: 20px; text-align: center;">25</div><div style="width: 20px; text-align: center;">26</div><div style="width: 20px; text-align: center;">27</div><div style="width: 20px; text-align: center;">28</div><div style="width: 20px; text-align: center;">29</div><div style="width: 20px; text-align: center;">30</div><div style="flex-grow: 1; border-bottom: 1px solid black;"></div></div>	
<div style="display: flex; align-items: center;"><div style="width: 20px; text-align: center;">31</div><div style="width: 20px; text-align: center;">32</div><div style="width: 20px; text-align: center;">33</div><div style="width: 20px; text-align: center;">34</div><div style="width: 20px; text-align: center;">35</div><div style="width: 20px; text-align: center;">36</div><div style="width: 20px; text-align: center;">37</div><div style="width: 20px; text-align: center;">38</div><div style="width: 20px; text-align: center;">39</div><div style="width: 20px; text-align: center;">40</div><div style="flex-grow: 1; border-bottom: 1px solid black;"></div></div>	
<div style="display: flex; align-items: center;"><div style="width: 20px; text-align: center;">41</div><div style="width: 20px; text-align: center;">42</div><div style="width: 20px; text-align: center;">43</div><div style="width: 20px; text-align: center;">44</div><div style="width: 20px; text-align: center;">45</div><div style="width: 20px; text-align: center;">46</div><div style="width: 20px; text-align: center;">47</div><div style="width: 20px; text-align: center;">48</div><div style="width: 20px; text-align: center;">49</div><div style="width: 20px; text-align: center;">50</div><div style="flex-grow: 1; border-bottom: 1px solid black;"></div></div>	
<div style="display: flex; align-items: center;"><div style="width: 20px; text-align: center;">51</div><div style="width: 20px; text-align: center;">52</div><div style="width: 20px; text-align: center;">53</div><div style="width: 20px; text-align: center;">54</div><div style="width: 20px; text-align: center;">55</div><div style="width: 20px; text-align: center;">56</div><div style="width: 20px; text-align: center;">57</div><div style="width: 20px; text-align: center;">58</div><div style="width: 20px; text-align: center;">59</div><div style="width: 20px; text-align: center;">60</div><div style="flex-grow: 1; border-bottom: 1px solid black;"></div></div>	
<div style="display: flex; align-items: center;"><div style="width: 20px; text-align: center;">61</div><div style="width: 20px; text-align: center;">62</div><div style="width: 20px; text-align: center;">63</div><div style="width: 20px; text-align: center;">64</div><div style="width: 20px; text-align: center;">65</div><div style="width: 20px; text-align: center;">66</div><div style="width: 20px; text-align: center;">67</div><div style="width: 20px; text-align: center;">68</div><div style="width: 20px; text-align: center;">69</div><div style="width: 20px; text-align: center;">70</div><div style="flex-grow: 1; border-bottom: 1px solid black;"></div></div>	
<div style="display: flex; align-items: center;"><div style="width: 20px; text-align: center;">71</div><div style="width: 20px; text-align: center;">72</div><div style="width: 20px; text-align: center;">73</div><div style="width: 20px; text-align: center;">74</div><div style="width: 20px; text-align: center;">75</div><div style="width: 20px; text-align: center;">76</div><div style="width: 20px; text-align: center;">77</div><div style="width: 20px; text-align: center;">78</div><div style="width: 20px; text-align: center;">79</div><div style="width: 20px; text-align: center;">80</div><div style="flex-grow: 1; border-bottom: 1px solid black;"></div></div>	
<div style="display: flex; align-items: center;"><div style="width: 20px; text-align: center;">81</div><div style="width: 20px; text-align: center;">82</div><div style="width: 20px; text-align: center;">83</div><div style="width: 20px; text-align: center;">84</div><div style="width: 20px; text-align: center;">85</div><div style="width: 20px; text-align: center;">86</div><div style="width: 20px; text-align: center;">87</div><div style="width: 20px; text-align: center;">88</div><div style="width: 20px; text-align: center;">89</div><div style="width: 20px; text-align: center;">90</div><div style="flex-grow: 1; border-bottom: 1px solid black;"></div></div>	
<div style="display: flex; align-items: center;"><div style="width: 20px; text-align: center;">91</div><div style="width: 20px; text-align: center;">92</div><div style="width: 20px; text-align: center;">93</div><div style="width: 20px; text-align: center;">94</div><div style="width: 20px; text-align: center;">95</div></div>	





BOND:	BONDERIZED
GA:	GAUGE
GALV:	GALVANIZED
ID:	INSIDE DIMENSION
LH:	LEFT HAND
MAX:	MAXIMUM
MIN:	MINIMUM
NTS:	NOT TO SCALE
RH:	RIGHT HAND
TPO:	THERMOPLASTIC POLYOLEFINS

## ABBREVIATIONS

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**AURORA™** **MODTECH** **MODULAR STRUCTURE**  
DESIGNS DESIGNS INTERNATIONAL, INC.  
DESIGNS

CONTRACTORS LICENSE #837357

<b>NORTHERN CALIFORNIA DIVISION</b> 1200 AIRPORT DRIVE CHOWCHILLA, CA 93610 PHONE: (559) 665-5800 FAX: (559) 665-5700 WEBSITE: <a href="http://WWW.GDVI.NET">WWW.GDVI.NET</a>	<b>SOUTHERN CALIFORNIA DIVISION</b> 1660 CHICAGO AVE., SUITE #M-2 RIVERSIDE, CA 92507 PHONE: (951) 686-3633 FAX: (951) 686-3662 WEBSITE: <a href="http://WWW.GDVI.NET">WWW.GDVI.NET</a>
--	--

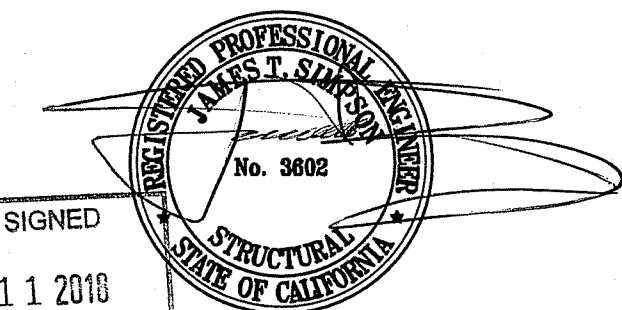
THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

## SHEET METAL AND FLASHING DETAILS

MFR, STRUCTURAL ENGINEER OF RECORD ON PROJECT



DATE SIGNED  
DEC 11 201

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS  
REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT

PC/02-116677

AC 4 FLS 3 SS g  
DATE: DEC 14 2018

## REVISIONS

PROJECT NO.: 00-0000

DRAWN BY:

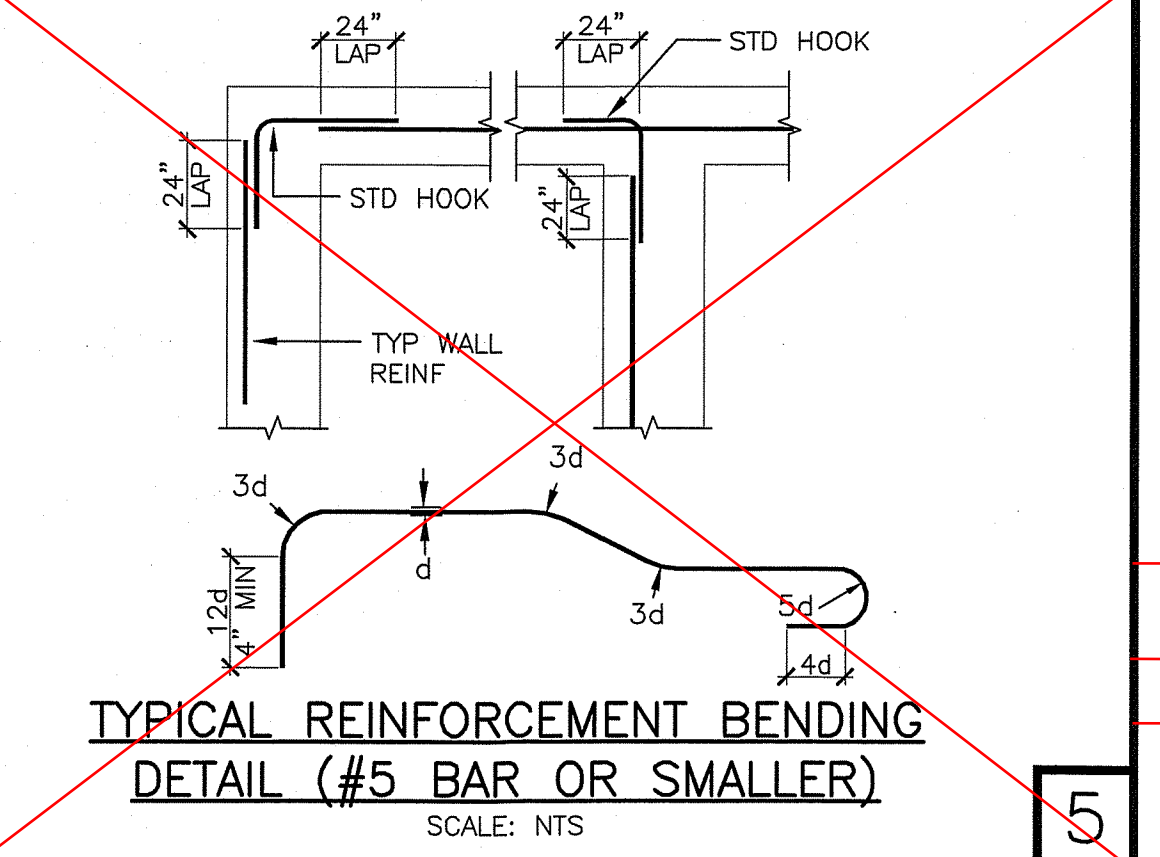
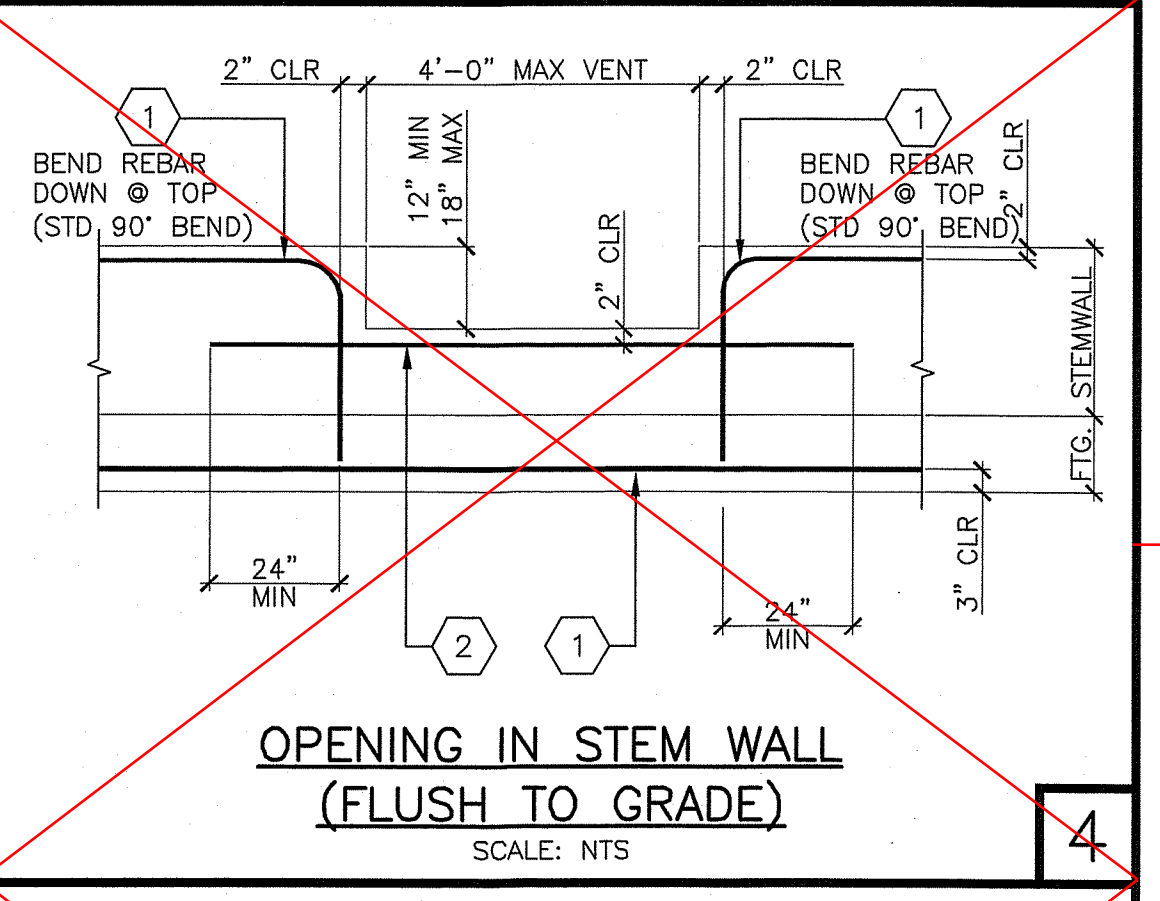
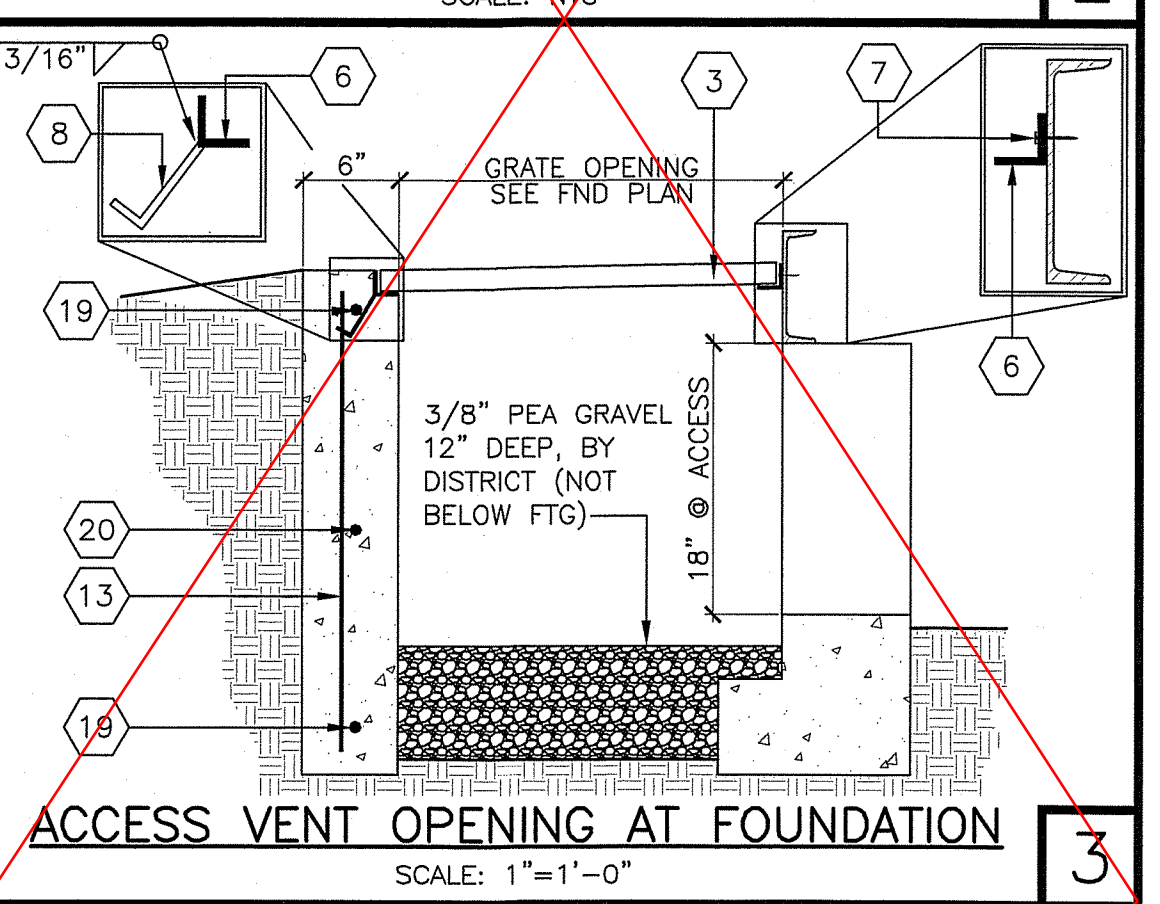
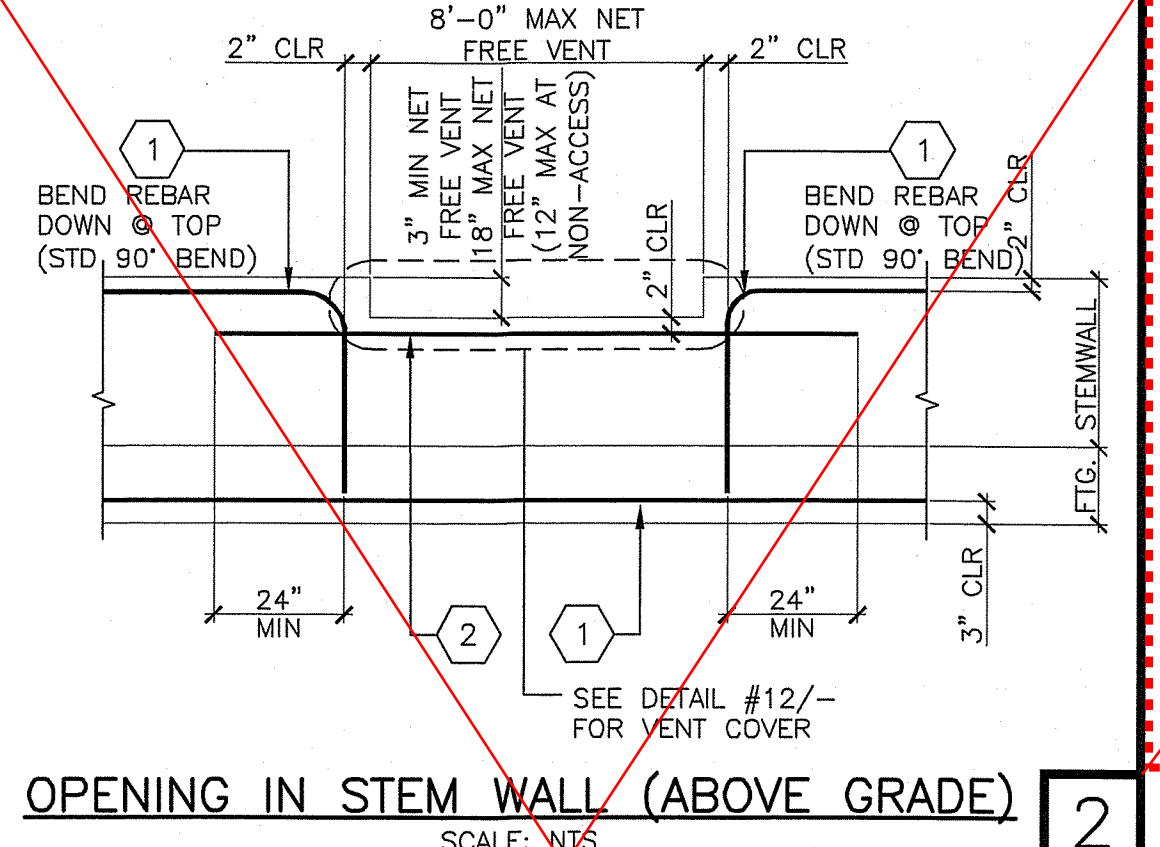
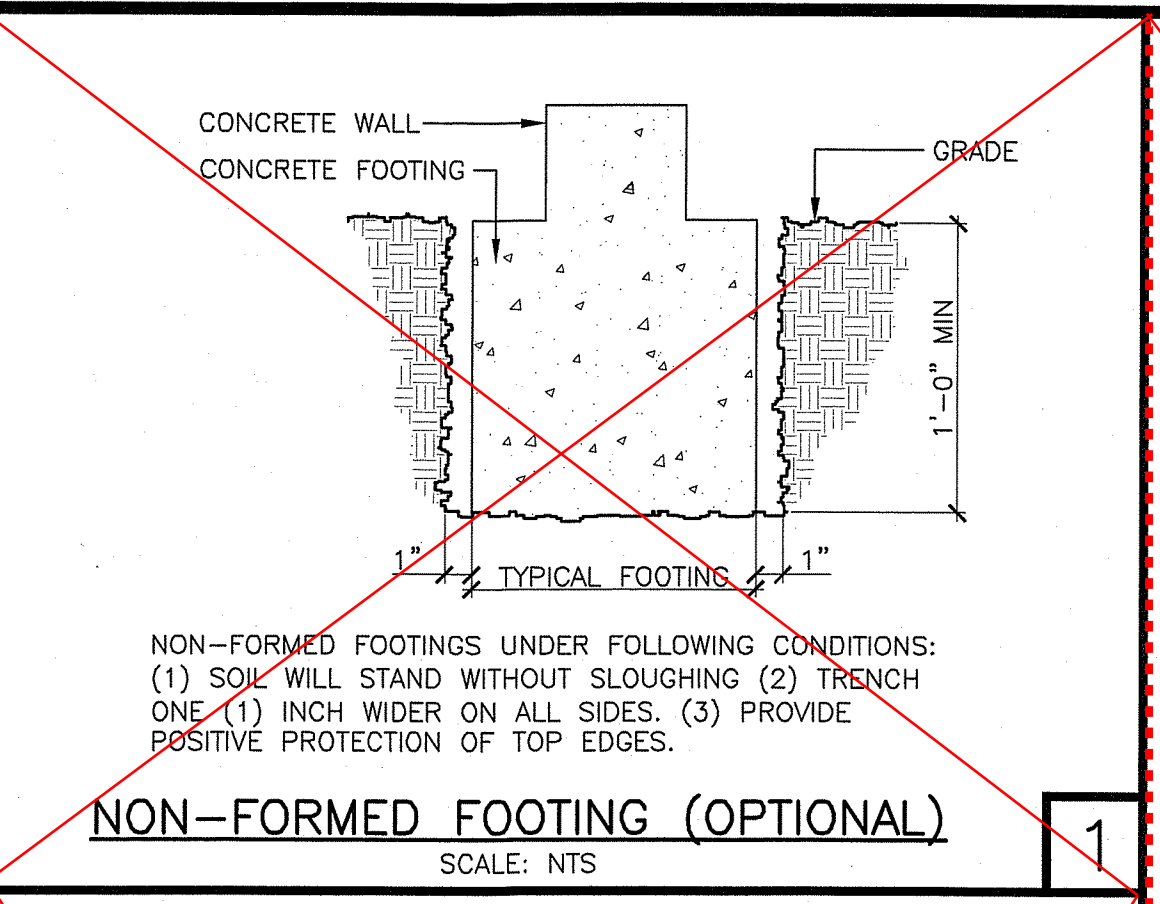
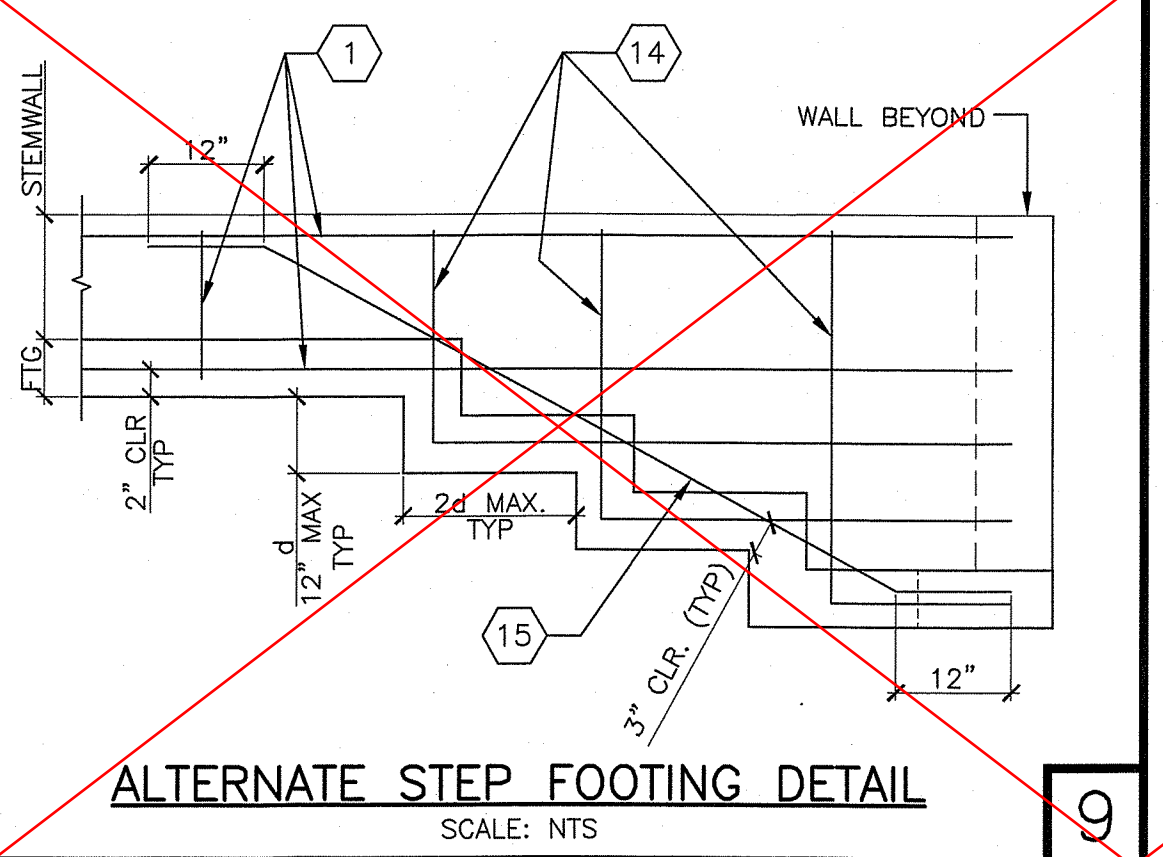
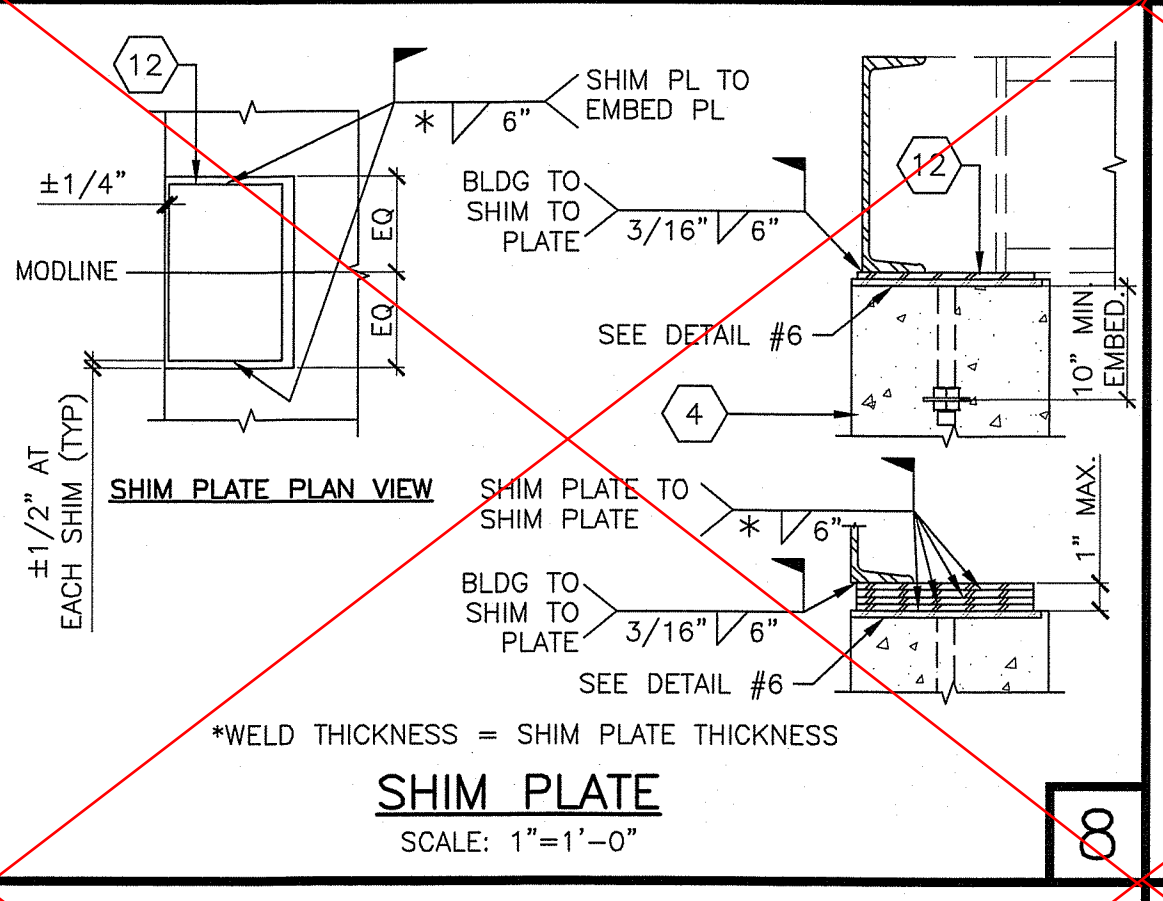
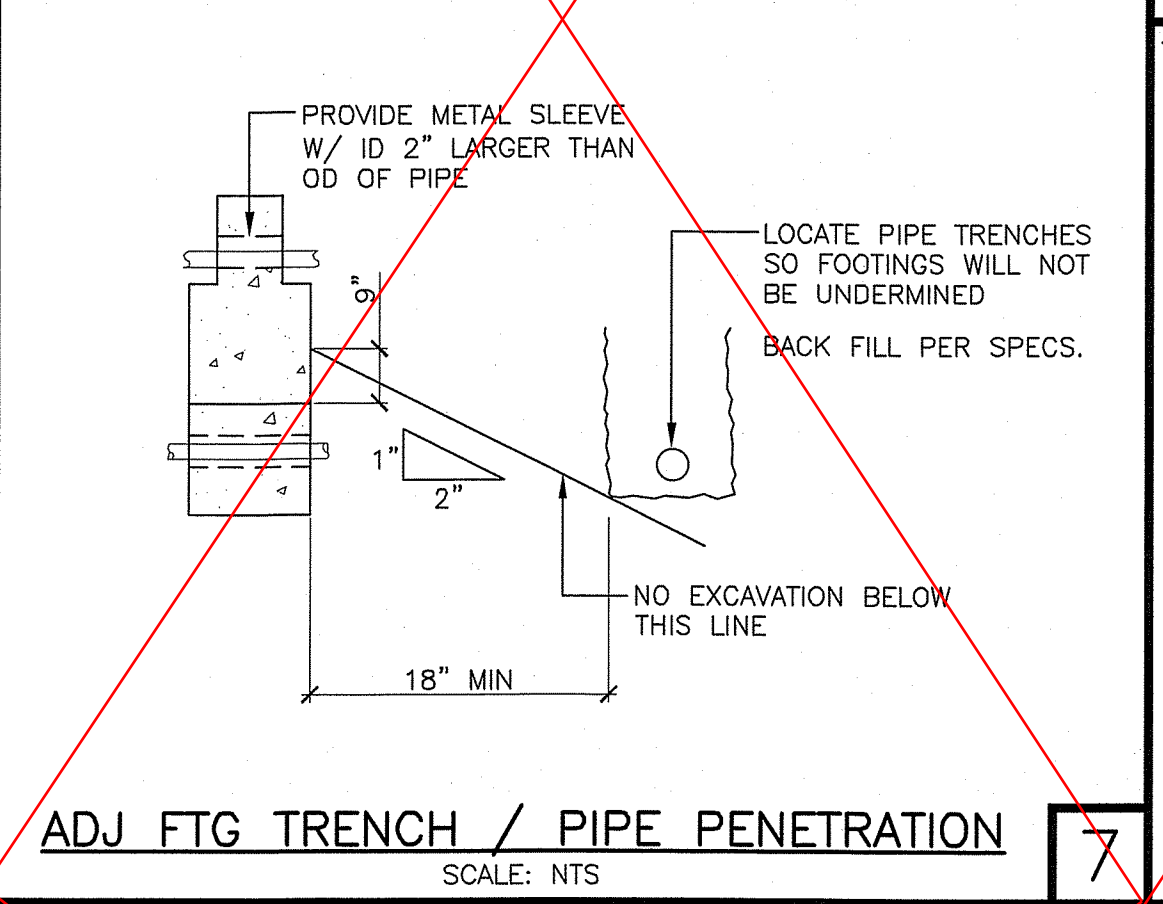
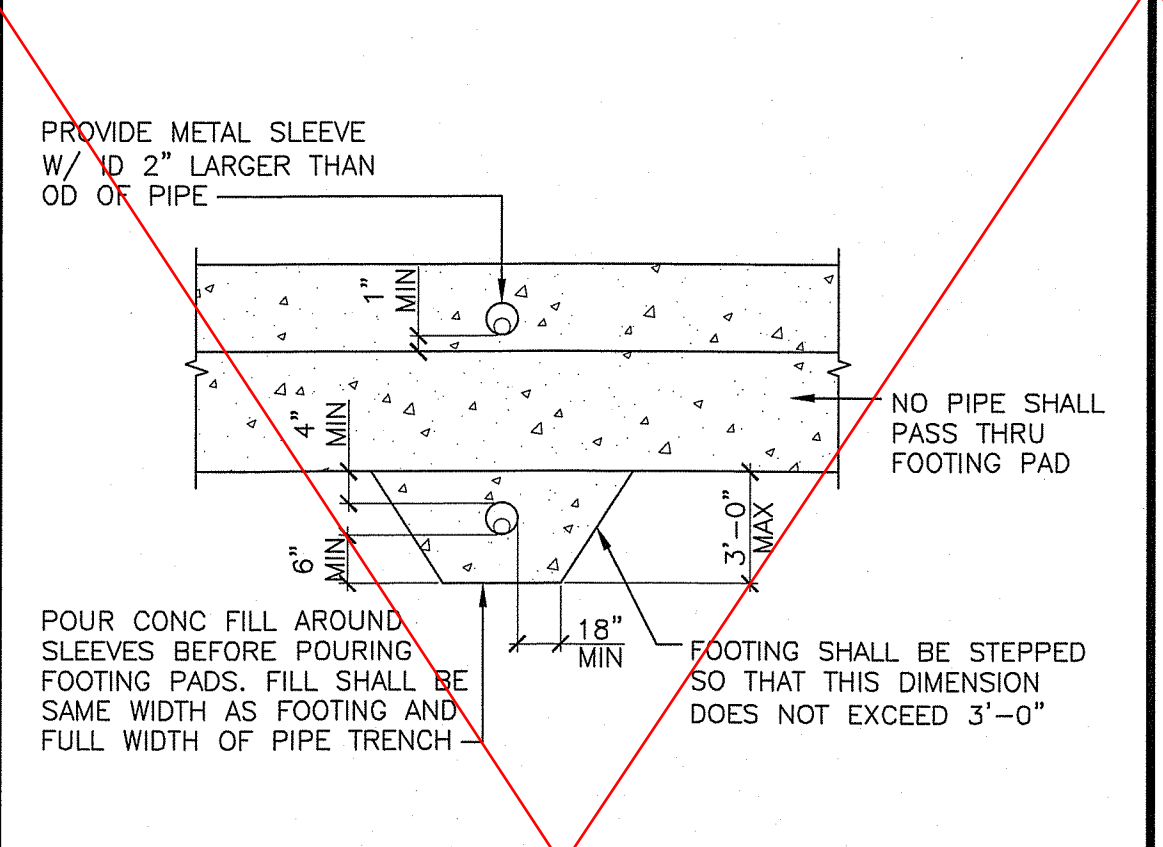
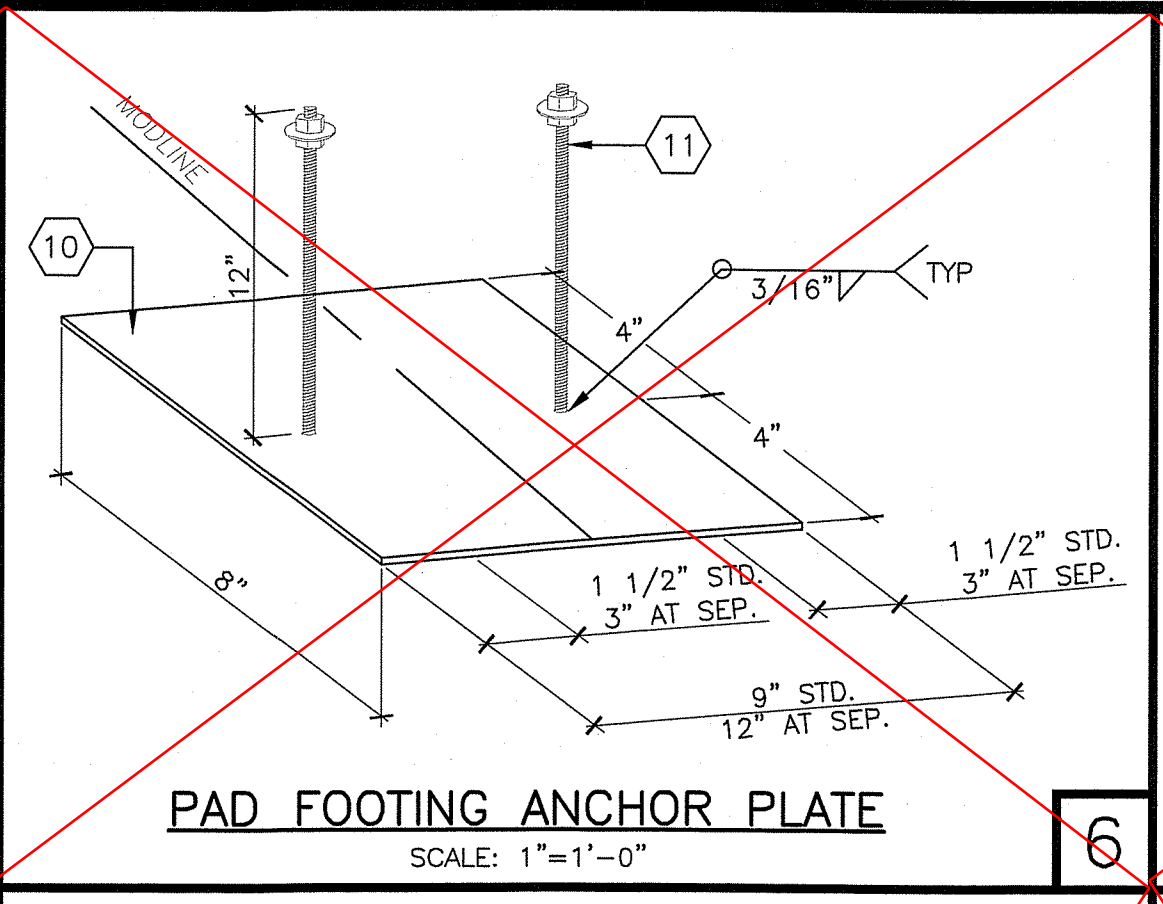
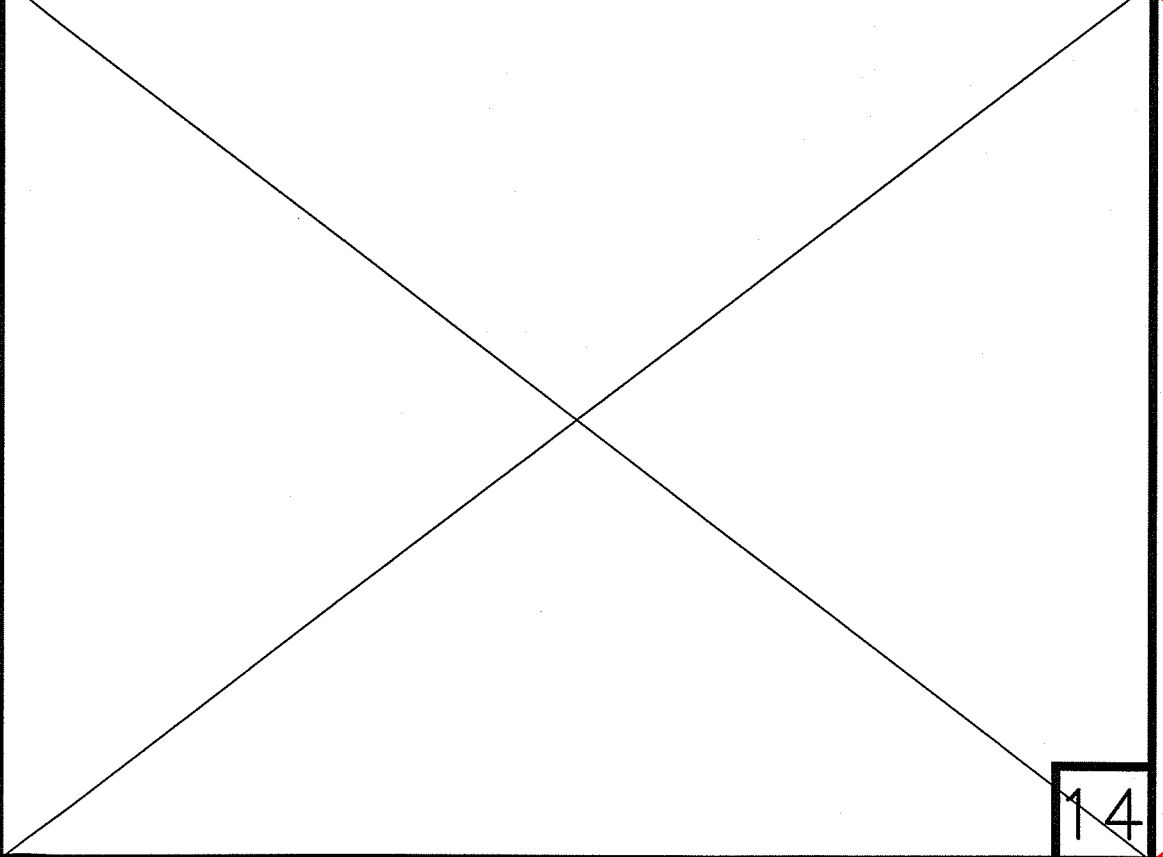
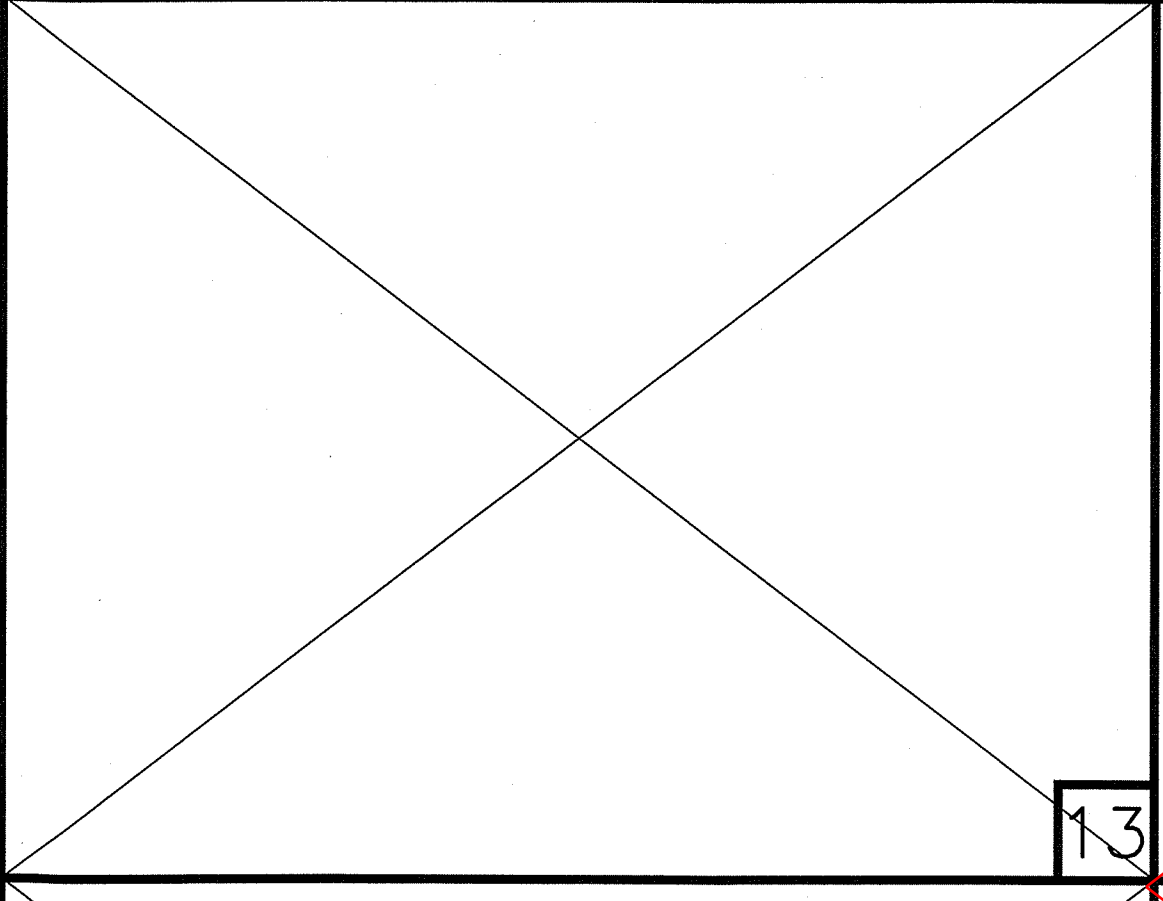
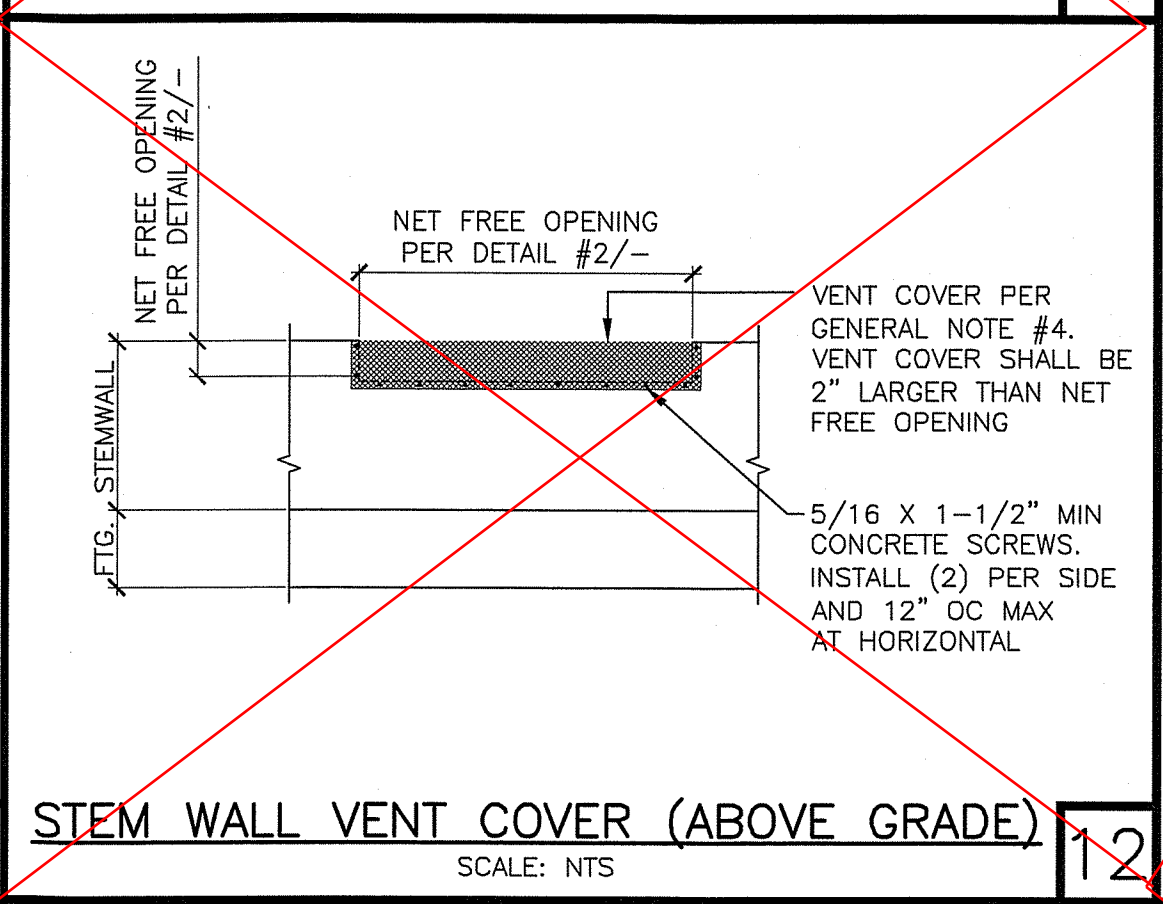
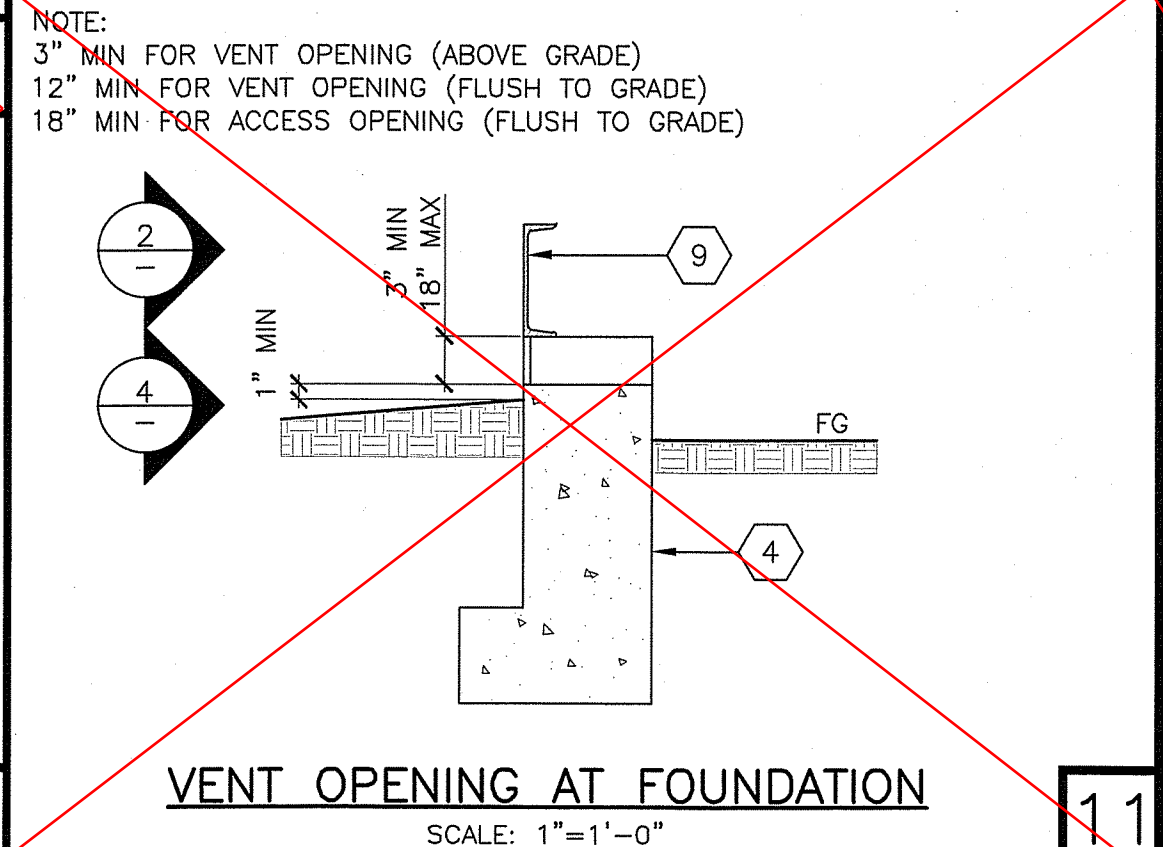
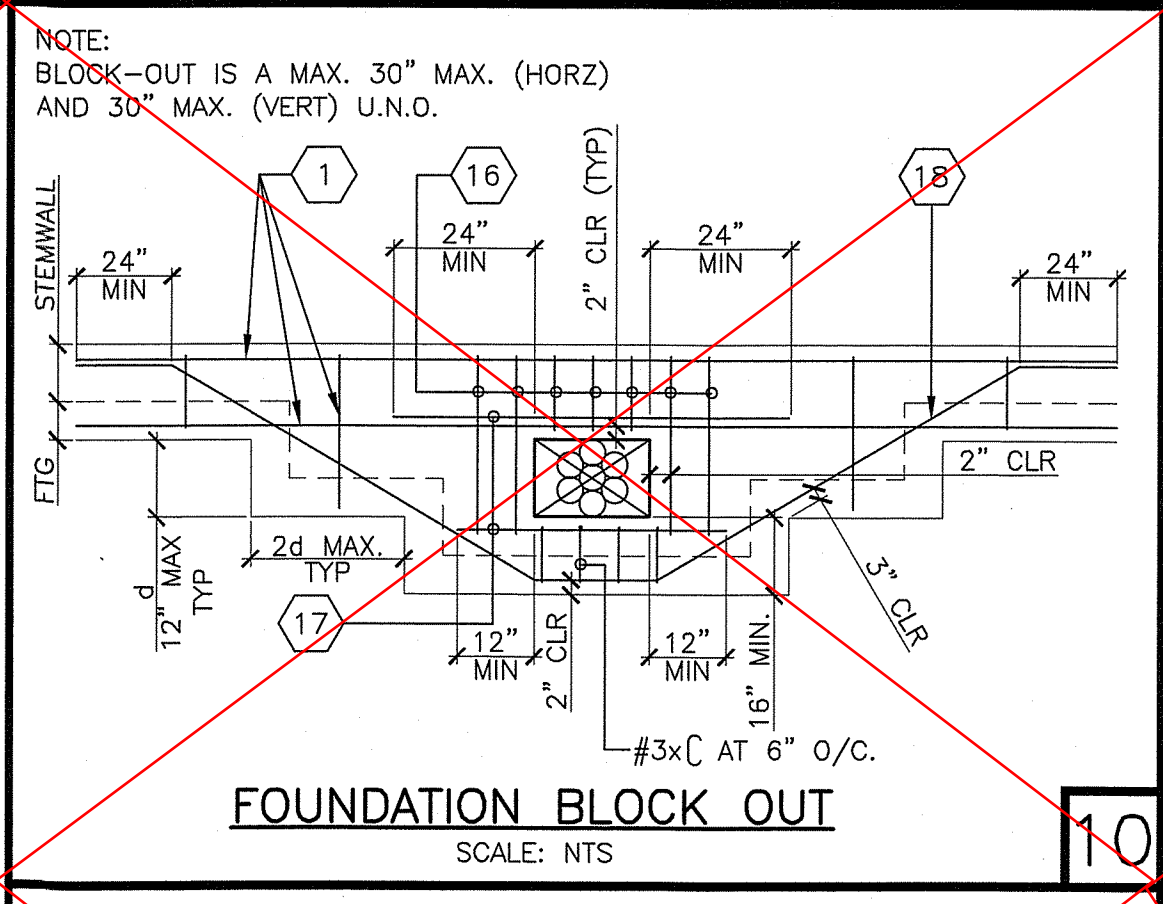
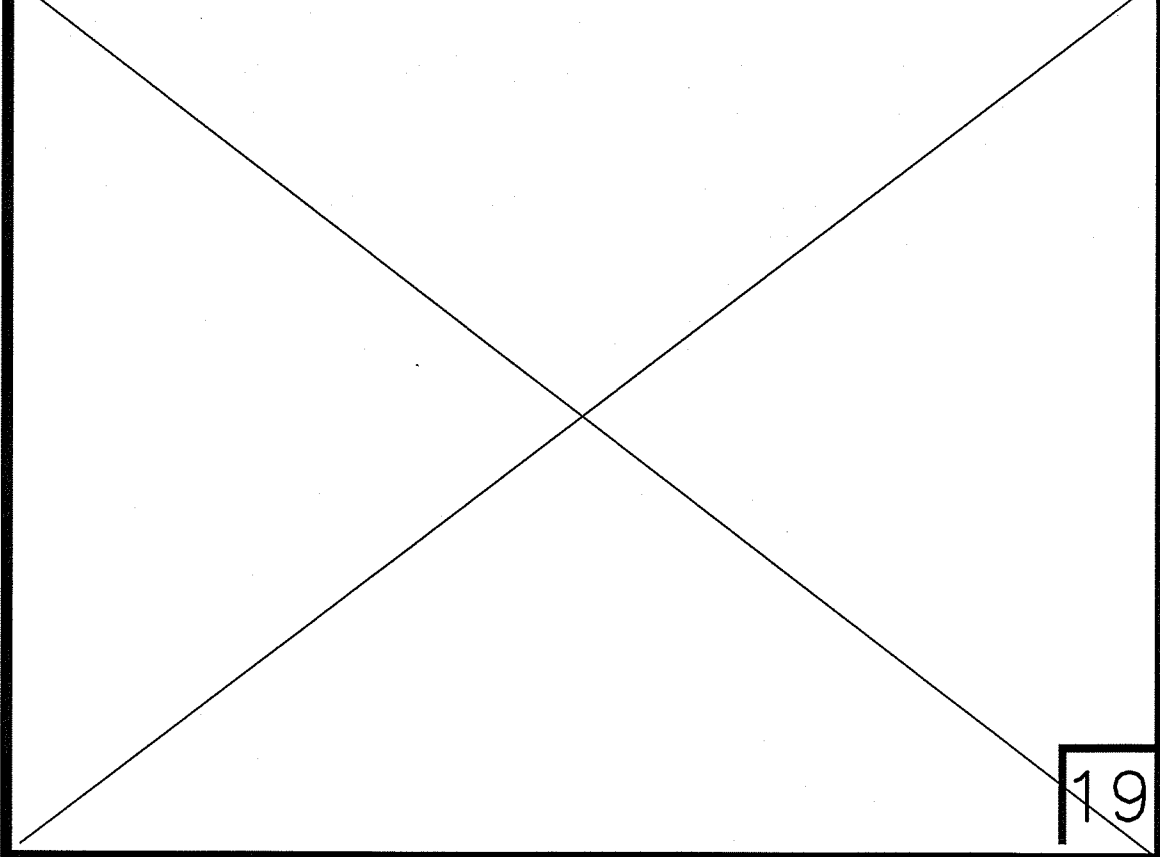
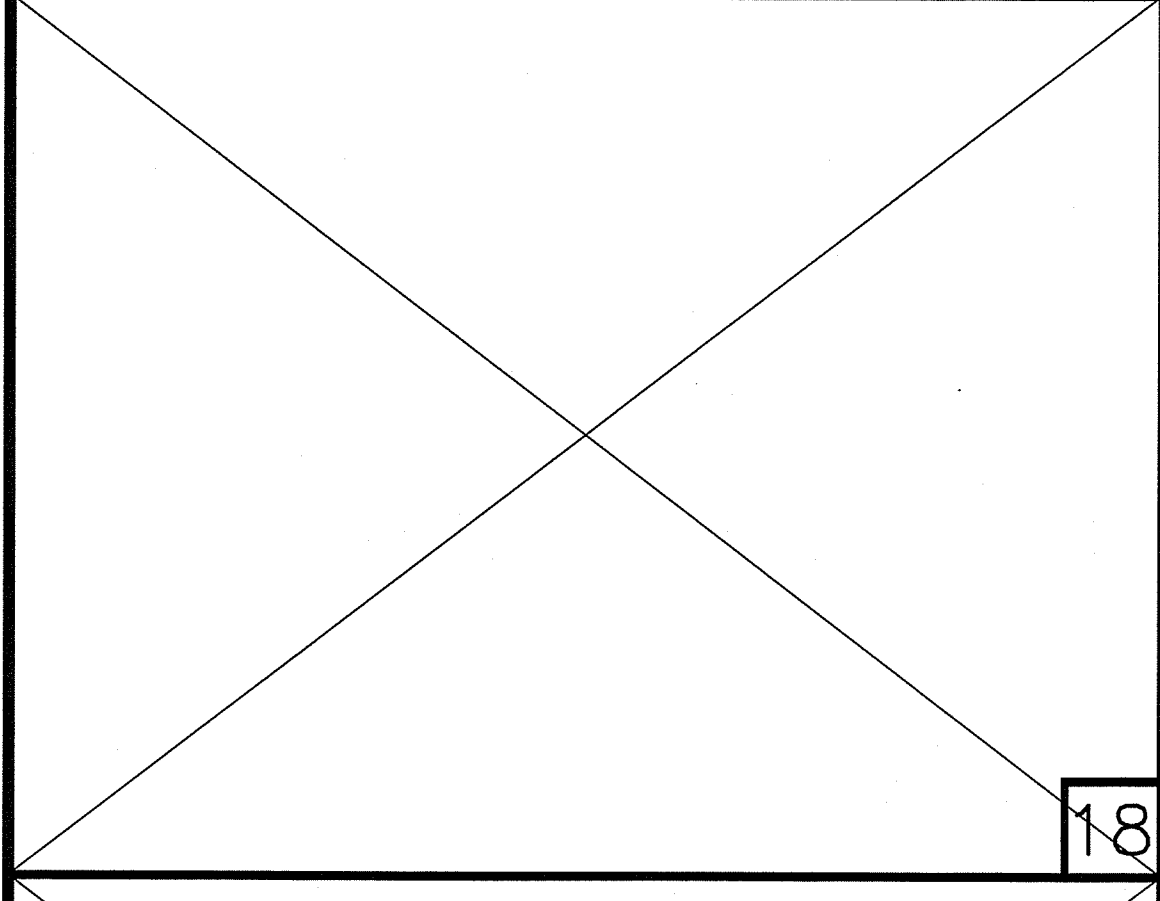
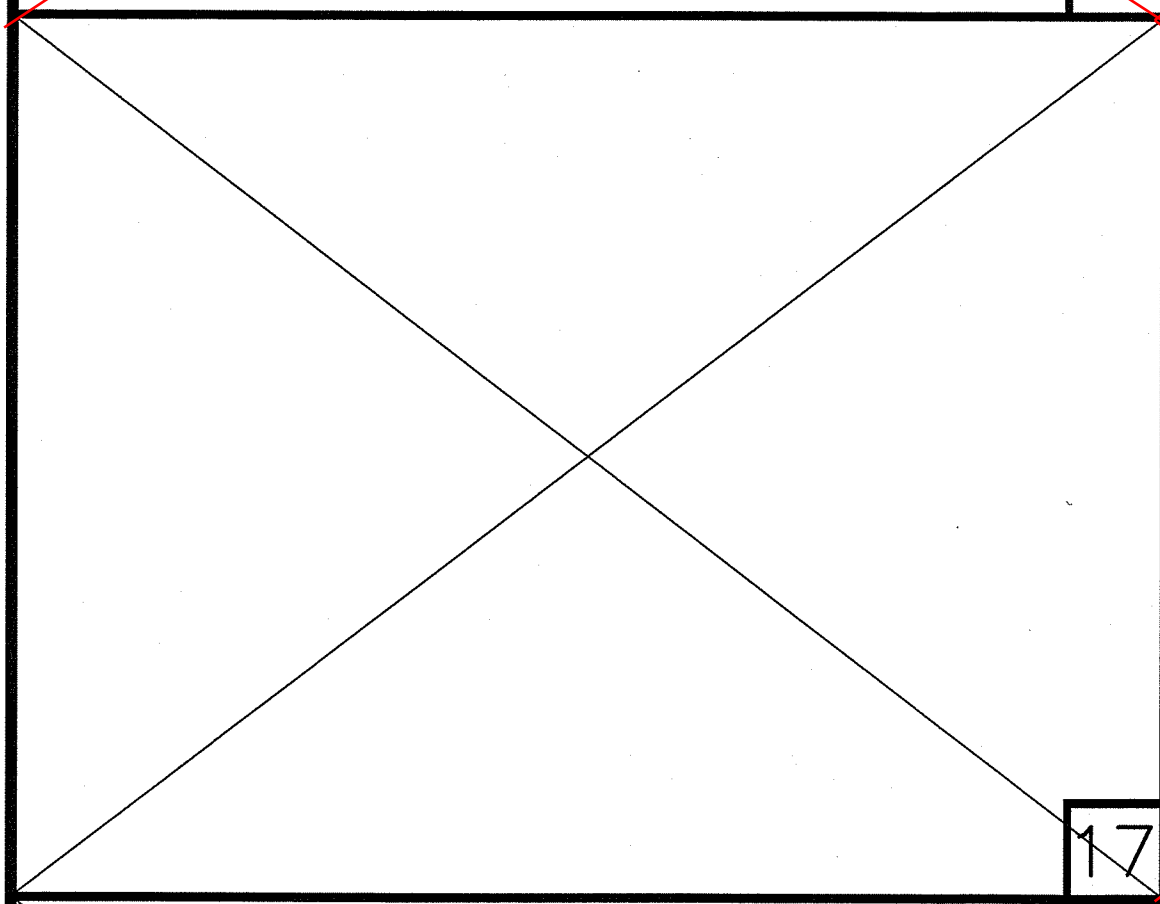
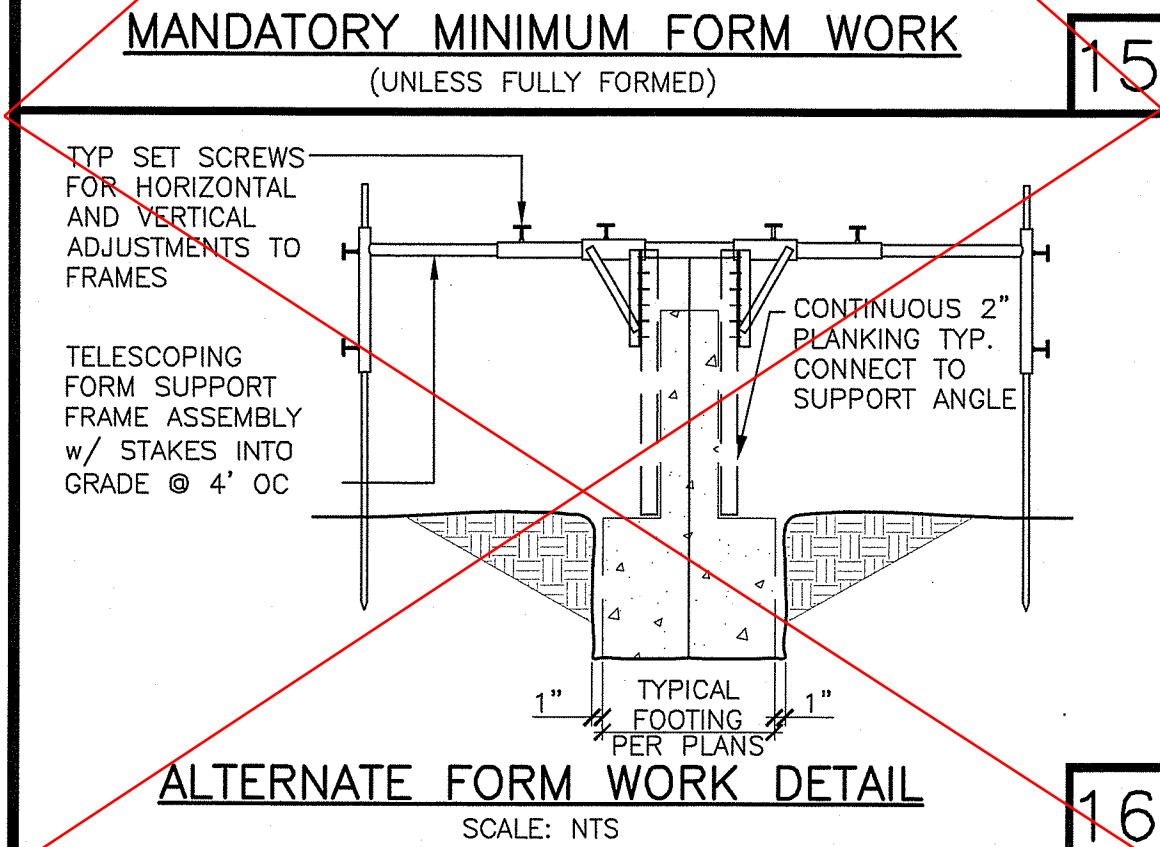
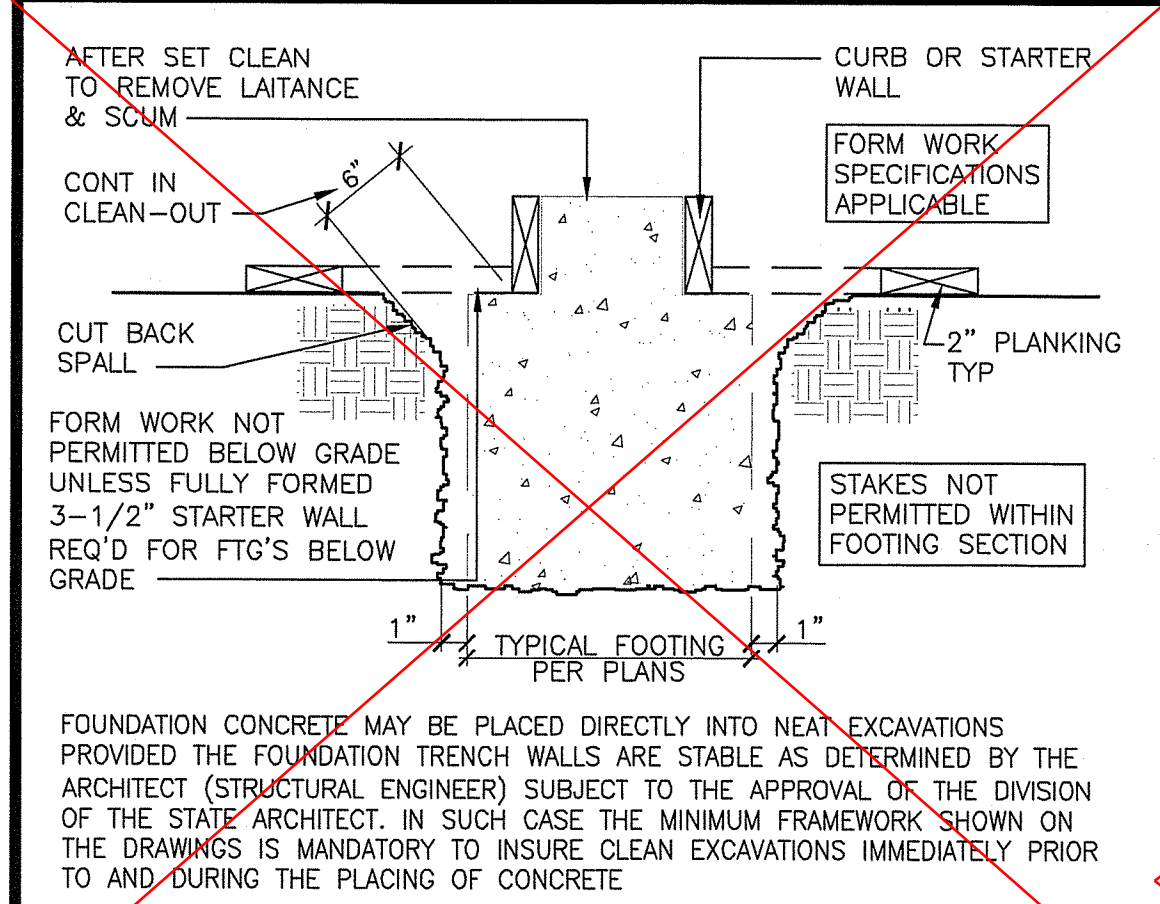
SCALE: AS NOTED

DATE: 00-00-00

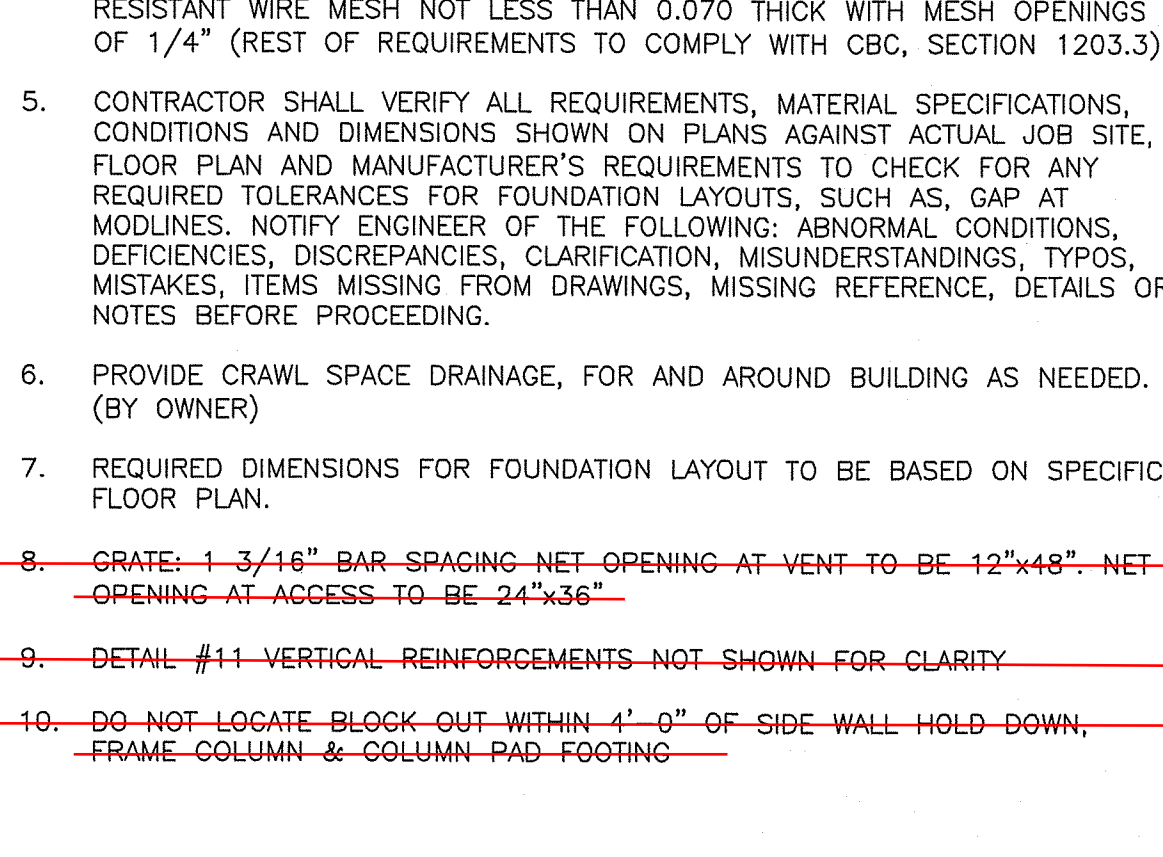
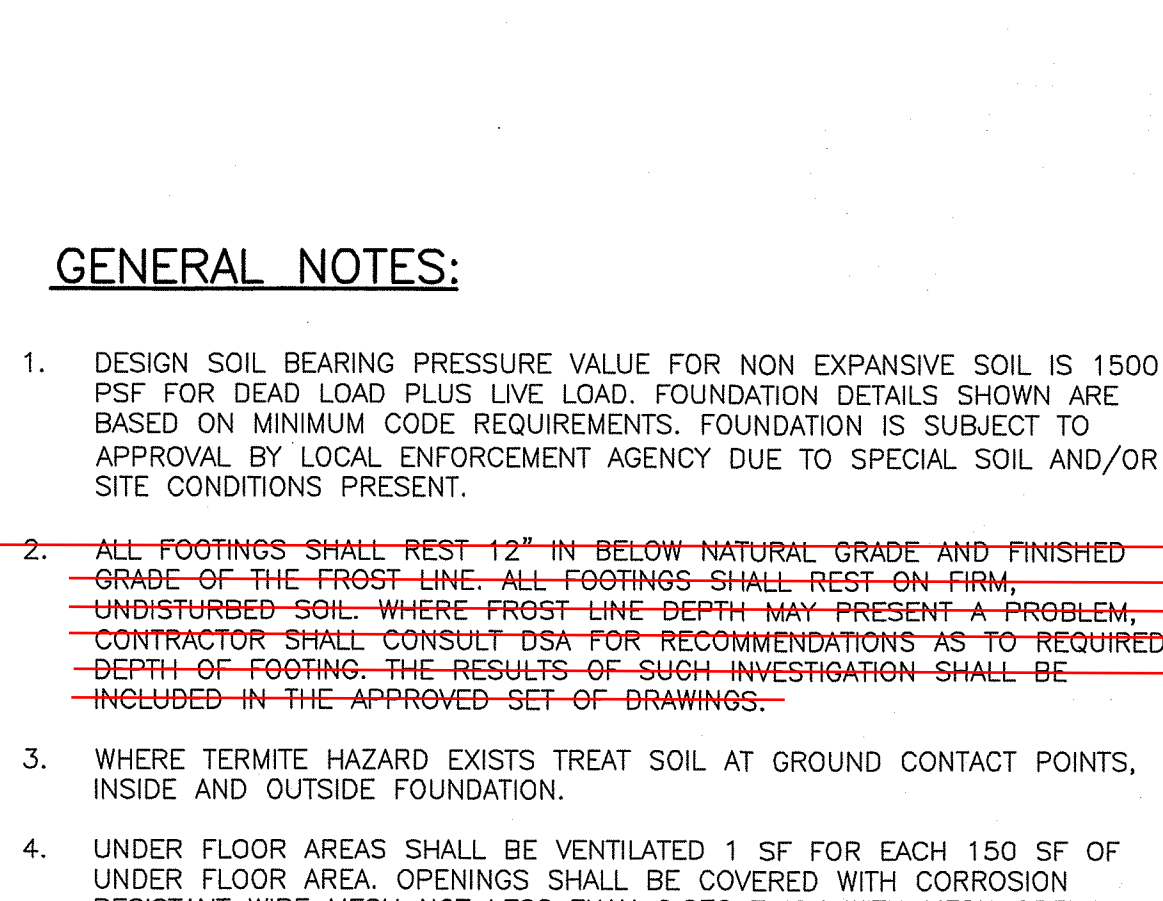
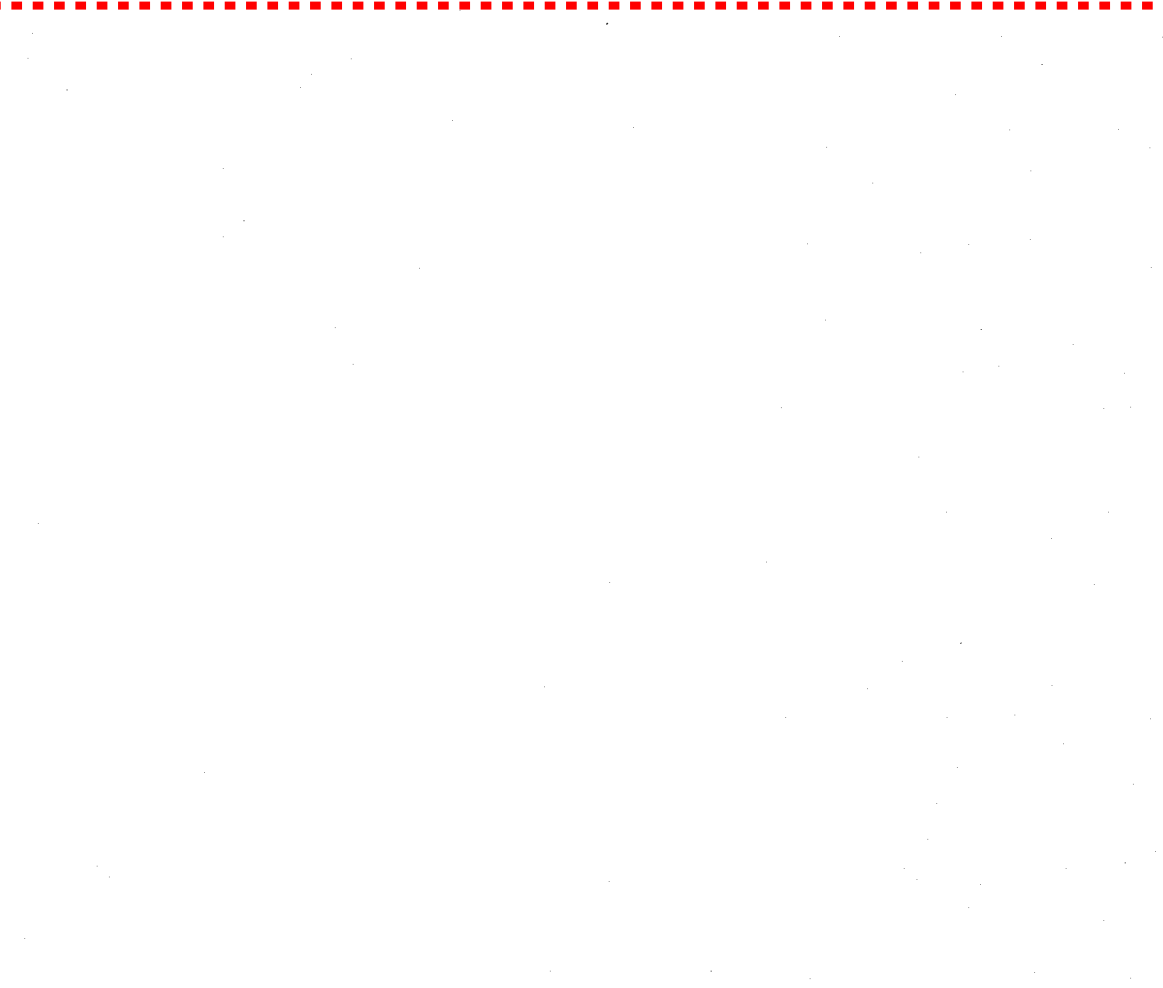
SHEET NUMBER

## A8.2





- ### KEY NOTES
- REBARS PER SHEET F2.0 OR F3.0.
  - ONE ADDITIONAL REBAR AT OPENING. REBAR SIZE TO MATCH TOP AND BOTTOM REBARS ACCORDINGLY.
  - GRATE IN PATH OF TRAVEL (ADA) - STD WELDED STEEL 3/4" X 3/16" BEARING BARS. BAR SPACING @ 1/2" OC PERPENDICULAR TO ROUTE OF TRAVEL. ALL WALKWAYS. (BY CONCRETE CONTRACTOR); FOR STANDARD GRATE SEE GENERAL NOTE #8 BELOW.
  - FOUNDATION WALL AND FTG PER SHEET F2.0 OR F3.0.
  - REBAR - #5 CONTINUOUS @ MID HEIGHT
  - ANGLE FRAME: L-1 1/2" X 1 1/2" X 1/4"
  - #10 X 1 1/2" GALV. TEK SCREW AT 16" O.C. MAX.
  - 1/4" x 3" IN ANCHOR BOLT. MIN OF 2
  - STEEL PERIMETER CHANNEL
  - 1/4" STEEL EMBEDMENT PLATE.
  - 5/8" MIN ALL THREAD WELDED TO STEEL PLATE AT ONE END AND DOUBLE NUT WITH 1/4" THICK WASHER AT THE OTHER END.
  - 3/16" MIN SHIM PLATE, MAY BE A SINGLE PLATE OR COMBO OF MULTIPLE PLATES WITH MAX SHIM HEIGHT OF 1". GAPS UP TO 1/4" DO NOT REQUIRE A SHIM. USE AS REQUIRED
  - REBAR - (1) #3 AT 24" O.C. AT CENTER LINE OF WALL.
  - REBAR - #3 " " AT 24" O.C. MAX. AT STEP DOWN LOCATION.
  - REBAR - #5 " " AT STEP DOWN LOCATION.
  - REBAR - #3 AT 6" O.C. AROUND BLOCK-OUT.
  - REBAR - (1) #5 TOP AND BOTTOM OF BLOCK-OUT.
  - REBAR - #5 " " AT STEP DOWN LOCATION
  - REBAR - (1) #3 TOP AND BOTTOM
  - REBAR - (1) #3 AT CENTER OF WALL



- ### GENERAL NOTES:
- DESIGN SOIL BEARING PRESSURE VALUE FOR NON EXPANSIVE SOIL IS 1500 PSF FOR DEAD LOAD PLUS LIVE LOAD. FOUNDATION DETAILS SHOWN ARE BASED ON MINIMUM CODE REQUIREMENTS. FOUNDATION IS SUBJECT TO APPROVAL BY LOCAL ENFORCEMENT AGENCY DUE TO SPECIAL SOIL AND/OR SITE CONDITIONS PRESENT.
  - ~~ALL FOOTINGS SHALL REST 12" IN BELOW NATURAL GRADE AND FINISHED GRADE OF THE FROST LINE. ALL FOOTINGS SHALL REST ON FIRM, UNDISTURBED SOIL WHERE FROST LINE DEPTH MAY PRESENT A PROBLEM. CONTRACTOR SHALL CONSULT DSA FOR RECOMMENDATIONS AS TO REQUIRED DEPTH OF FOOTING. THE RESULTS OF SUCH INVESTIGATION SHALL BE INCLUDED IN THE APPROVED SET OF DRAWINGS.~~
  - WHERE TERMITE HAZARD EXISTS TREAT SOIL AT GROUND CONTACT POINTS, INSIDE AND OUTSIDE FOUNDATION.
  - UNDER FLOOR AREAS SHALL BE VENTILATED 1 SF FOR EACH 150 SF OF UNDER FLOOR AREA. OPENINGS SHALL BE COVERED WITH CORROSION RESISTANT WIRE MESH NOT LESS THAN 0.070 THICK WITH MESH OPENINGS OF 1/4" (REST OF REQUIREMENTS TO COMPLY WITH CBC, SECTION 1203.3)
  - CONTRACTOR SHALL VERIFY ALL REQUIREMENTS, MATERIAL SPECIFICATIONS, CONDITIONS AND DIMENSIONS SHOWN ON PLANS AGAINST ACTUAL JOB SITE, FLOOR PLAN AND MANUFACTURER'S REQUIREMENTS TO CHECK FOR ANY REQUIRED TOLERANCES FOR FOUNDATION LAYOUTS, SUCH AS, GAP AT MODLINES. NOTIFY ENGINEER OF THE FOLLOWING: ABNORMAL CONDITIONS, DEFICIENCIES, DISCREPANCIES, CLARIFICATION, MISUNDERSTANDINGS, TYPOS, MISTAKES, ITEMS MISSING FROM DRAWINGS, MISSING REFERENCE, DETAILS OR NOTES BEFORE PROCEEDING.
  - PROVIDE CRAWL SPACE DRAINAGE, FOR AND AROUND BUILDING AS NEEDED. (BY OWNER)
  - REQUIRED DIMENSIONS FOR FOUNDATION LAYOUT TO BE BASED ON SPECIFIC FLOOR PLAN.
  - ~~GRATE: 1 3/16" BAR SPACING NET OPENING AT VENT TO BE 12"x48" NET OPENING AT ACCESS TO BE 24"x36"~~
  - ~~DETAIL #11 VERTICAL REINFORCEMENTS NOT SHOWN FOR CLARITY~~
  - ~~DO NOT LOCATE BLOCK-OUT WITHIN 4'-0" OF SIDE WALL HOLD-DOWN, FRAME COLUMN & COLUMN PAD FOOTING~~

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

GLOBAL MODULAR  
Incorporated

AURORA MODTECH  
DESIGNS

MODULAR STRUCTURES  
INTERNATIONAL, INC.  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
SHOWHILLA, CA 93810  
PHONE: (559) 665-5800  
FAX: (559) 665-5700  
WEBSITE: WWW.GDMJ.NET

SOUTHERN CALIFORNIA DIVISION  
1660 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 698-3633  
FAX: (951) 698-3662  
WEBSITE: WWW.GDMJ.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

GENERAL DETAILS

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

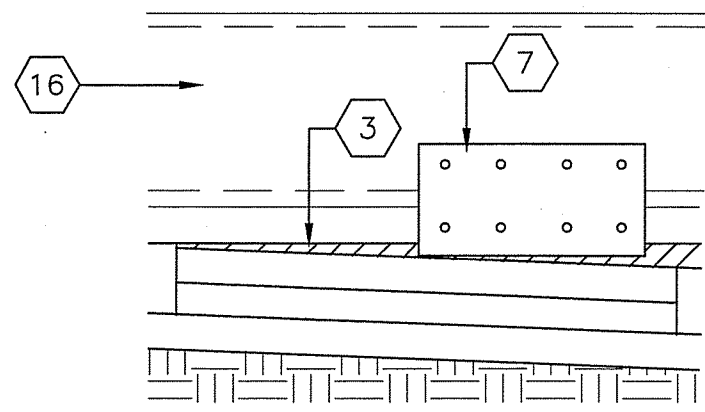
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC/02-116677  
FILE # PC-72  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2018

REVISIONS

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER

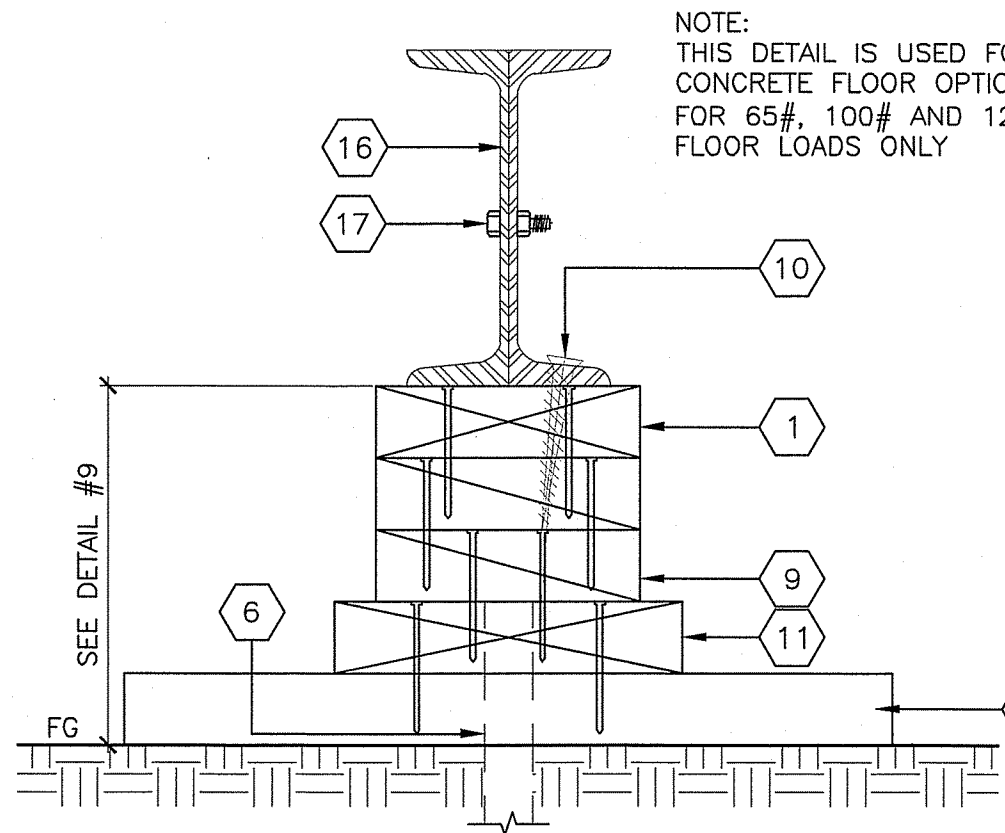
F0.0





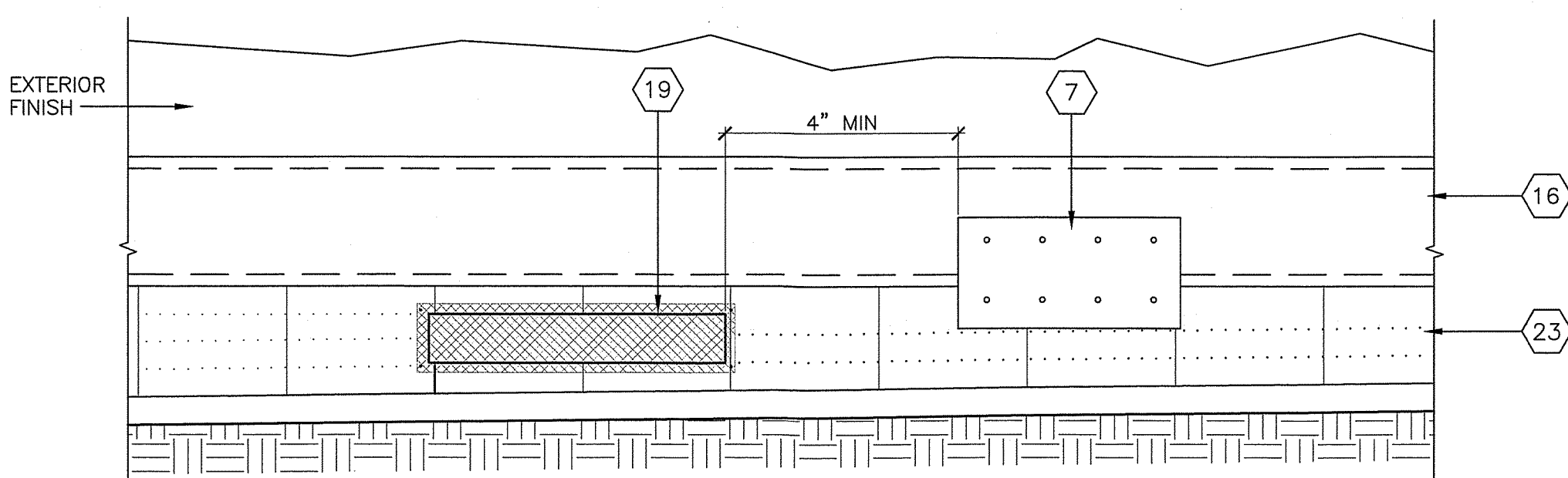
**SHIMMING**  
SCALE: NTS

13



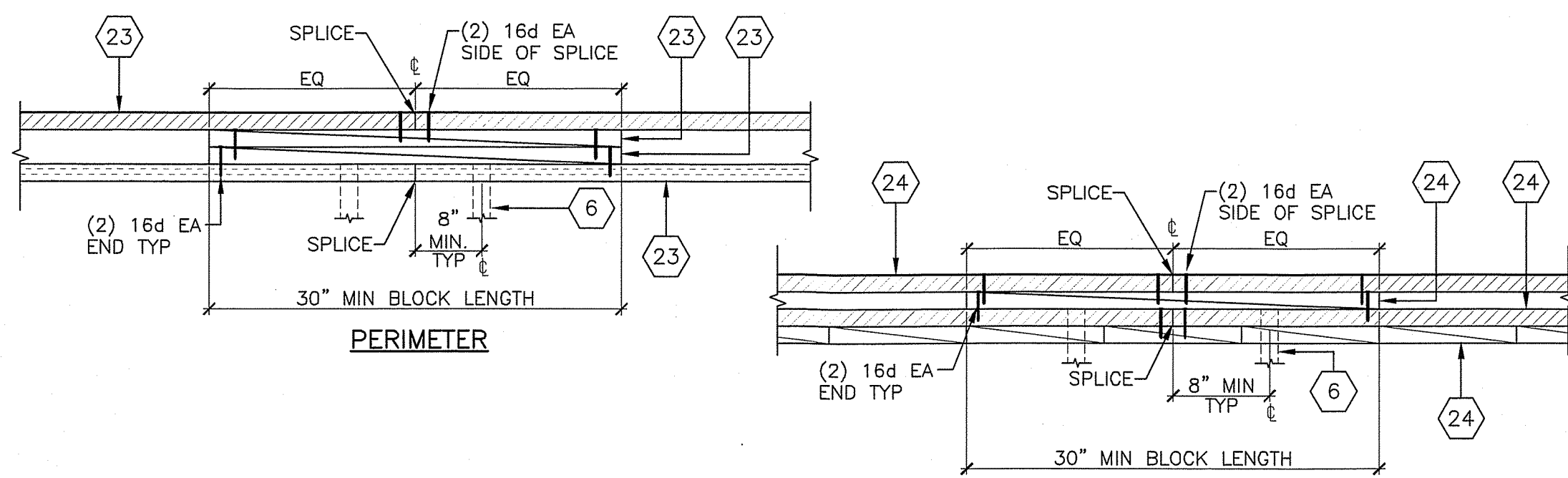
**MODLINE-SIDE BY SIDE SILL PLATE (CONCRETE FLOORS)**  
SCALE: 3" = 1'-0"

14



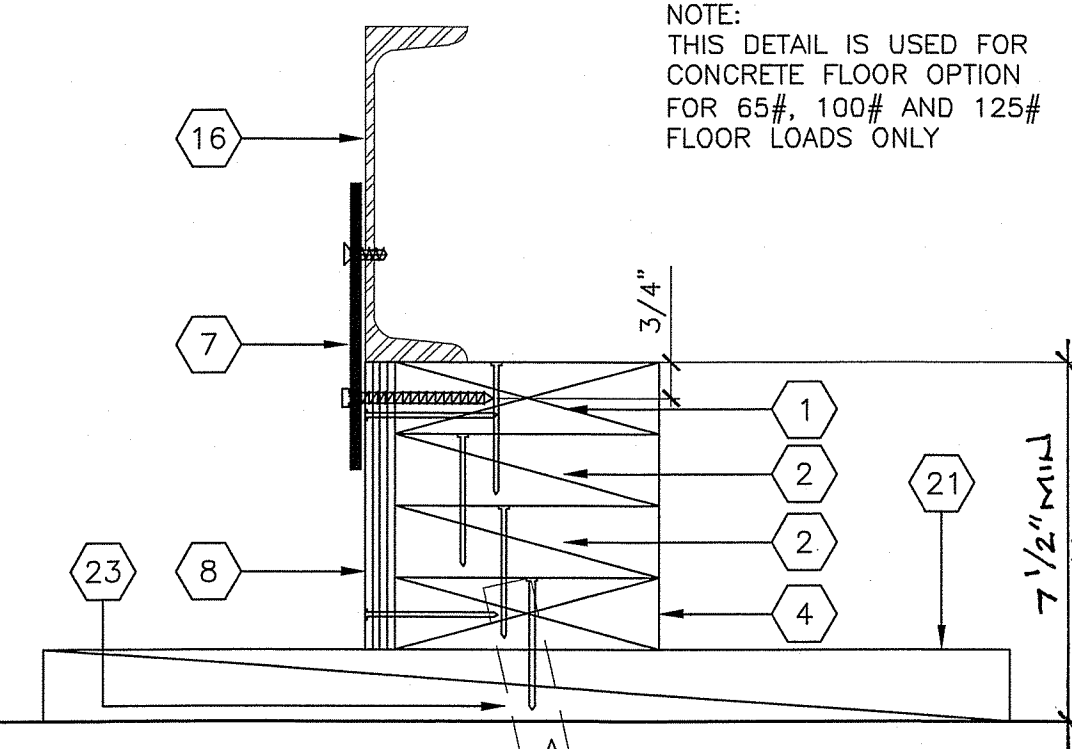
**FOUNDATION EXTERIOR ELEVATION**  
SCALE: 1 1/2" = 1'-0"

11



**TYPICAL SPLICE DETAILS**  
SCALE: 3" = 1'-0"

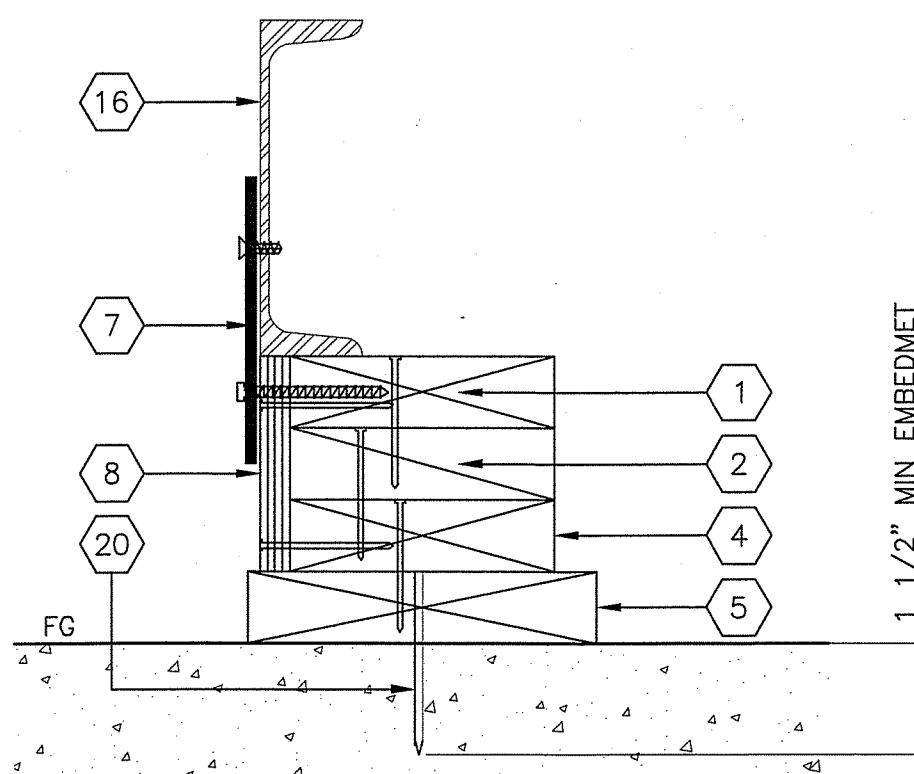
12



**PERIMETER-SIDE BY SIDE SILL PLATE (CONCRETE FLOORS)**  
SCALE: 3" = 1'-0"

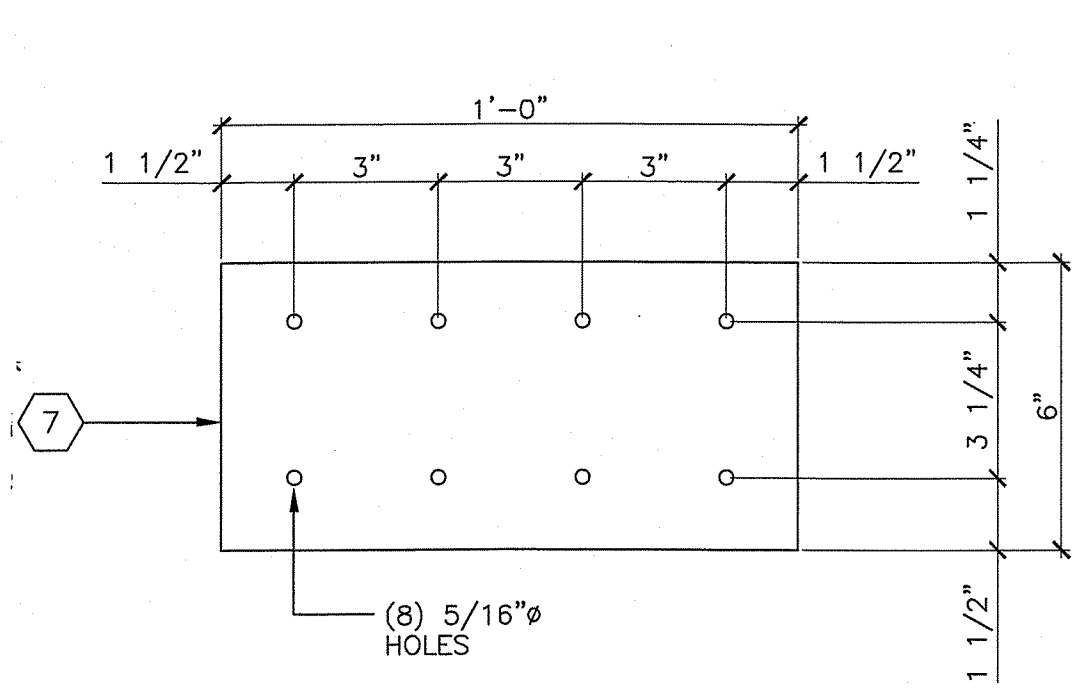
9

SHOT PIN SPACING SCHEDULE				
FLOOR LOAD	50	50+15	100	125
24'x40'	10" OC	10" OC	10" OC	6" OC
SIDEWALL	17" OC	17" OC	17" OC	10" OC
36'x40'	10" OC	10" OC	10" OC	6" OC
SIDEWALL	11" OC	11" OC	11" OC	7" OC
48'x40'	10" OC	10" OC	10" OC	6" OC
SIDEWALL	8" OC	8" OC	8" OC	5" OC



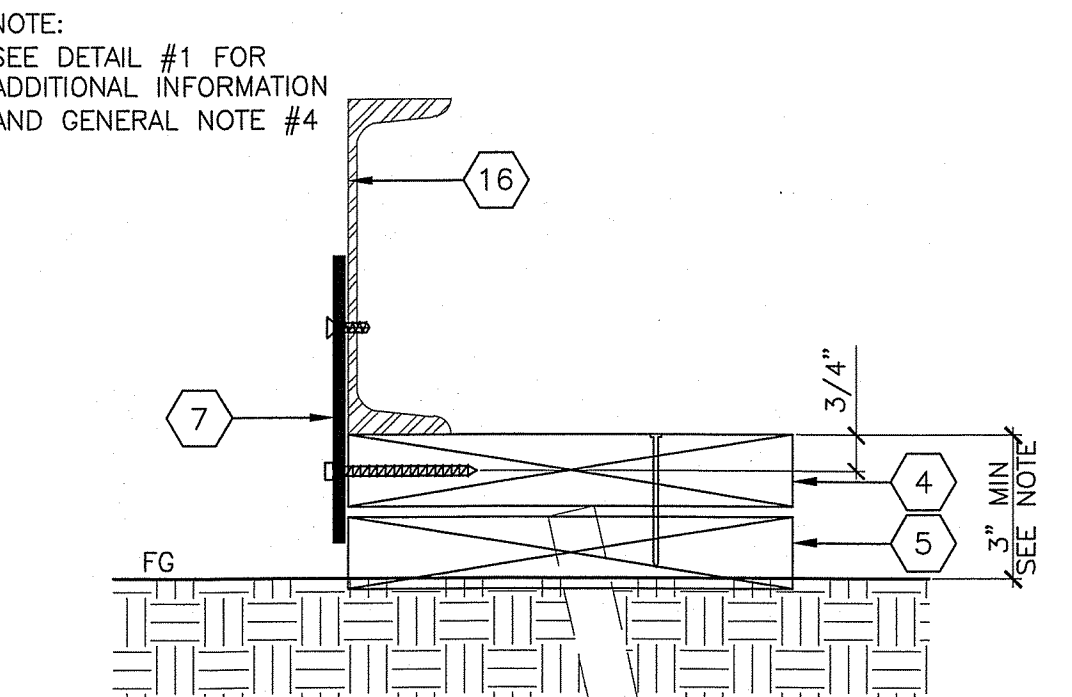
**(ALT) FOUNDATION TO CONCRETE SLAB**  
SCALE: 3" = 1'-0"

10



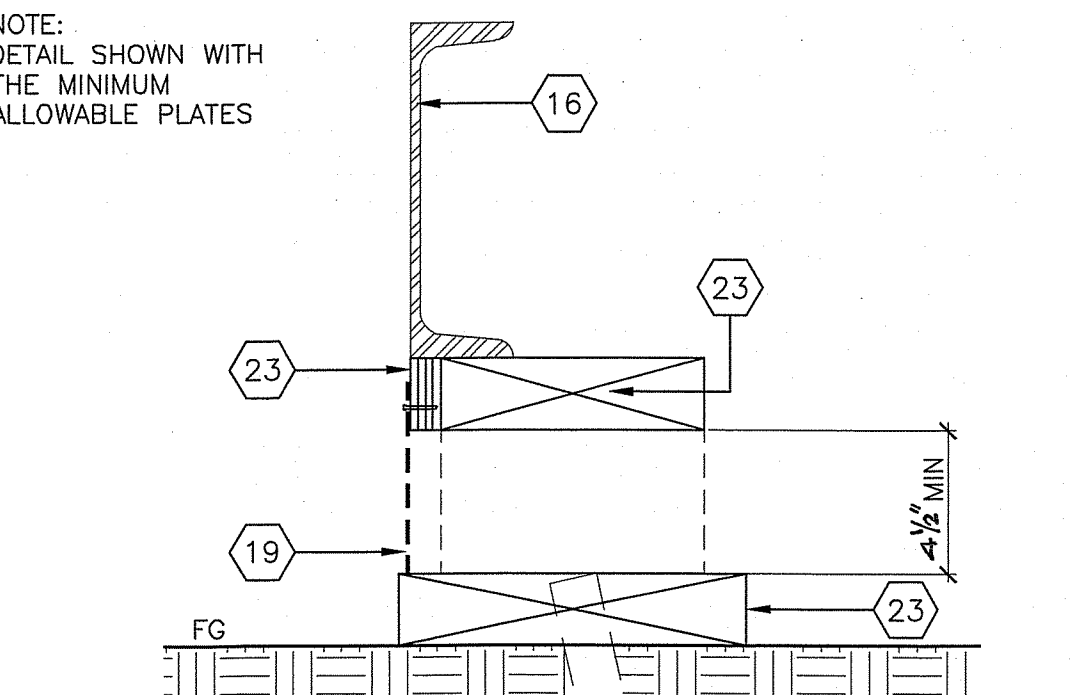
**TYP TIE PLATE**  
SCALE: 3" = 1'-0"

5



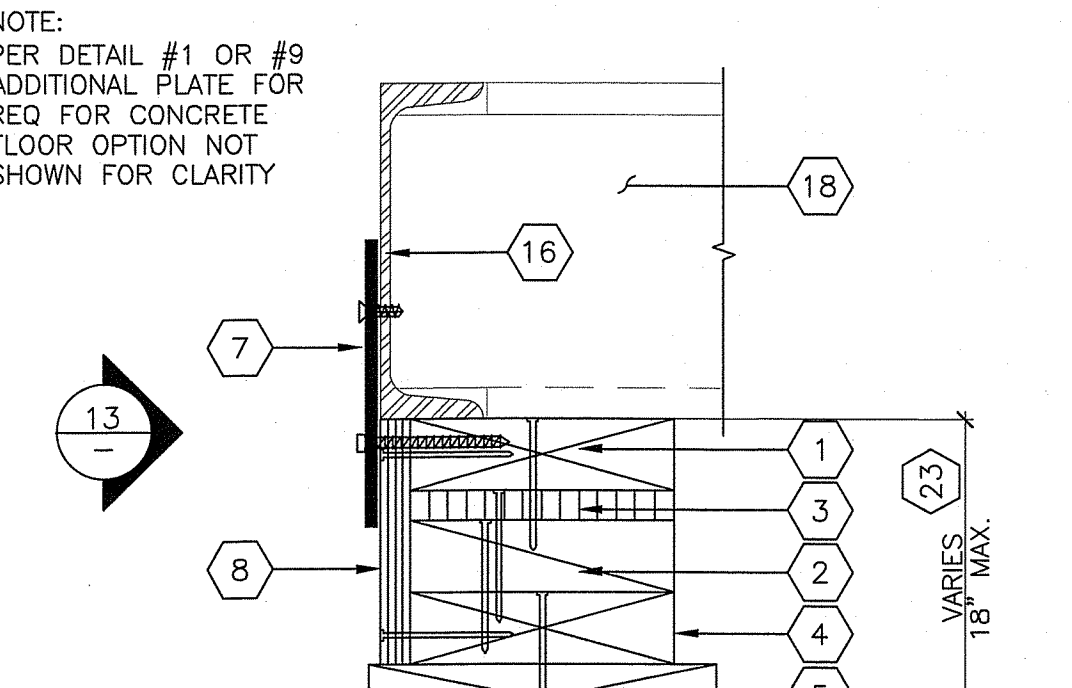
**MINIMUM FOUNDATION AT SLOPE GRADE**  
SCALE: 3" = 1'-0"

6



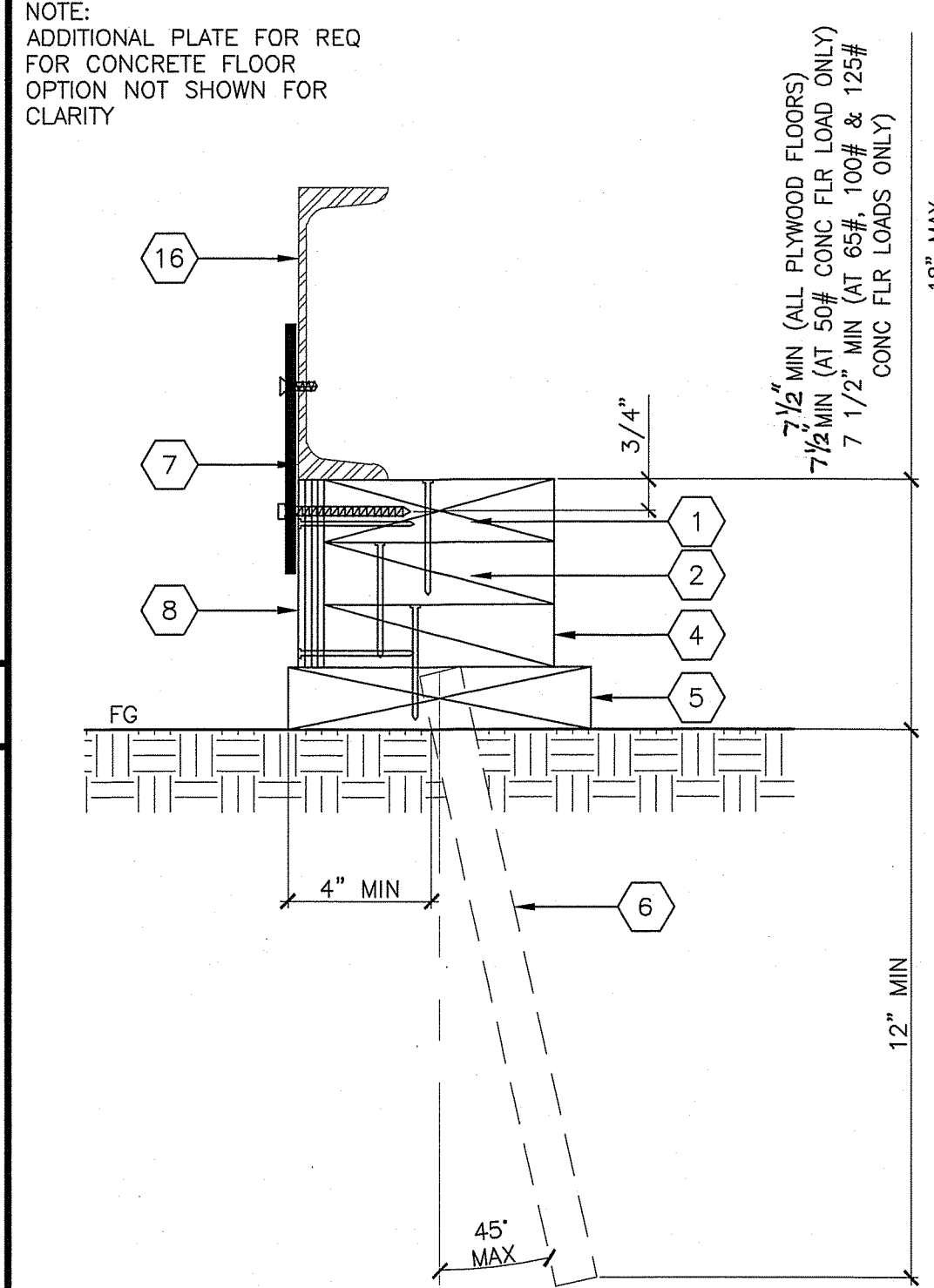
**TYPICAL VENT THRU FOUNDATION**  
SCALE: 3" = 1'-0"

7



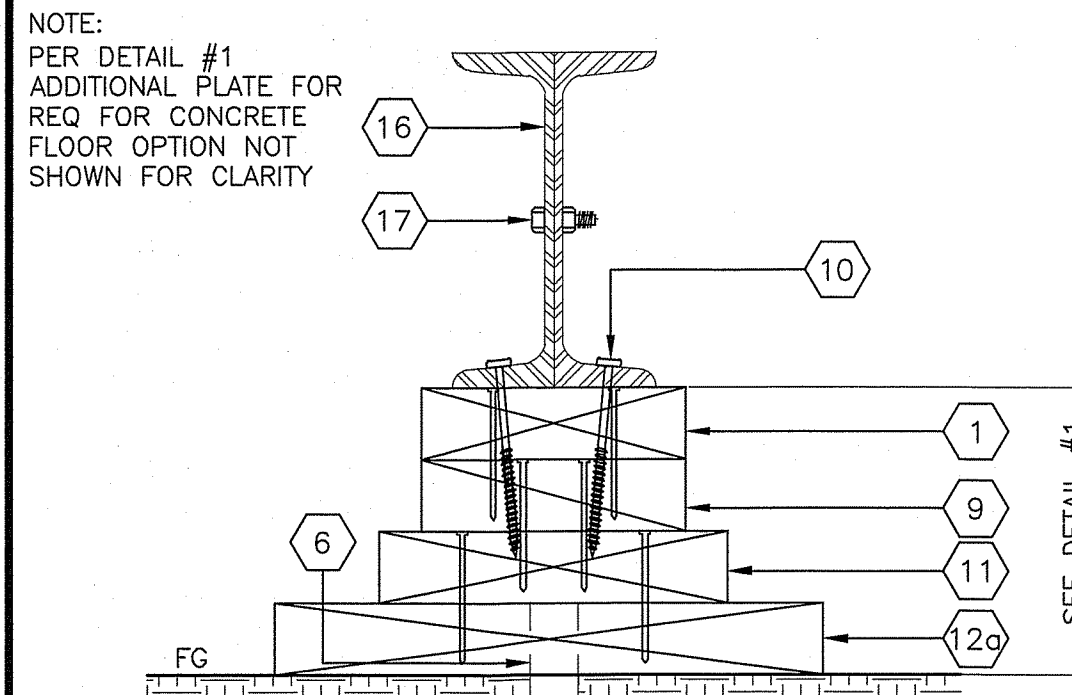
**SHIMMING**  
SCALE: 3" = 1'-0"

8



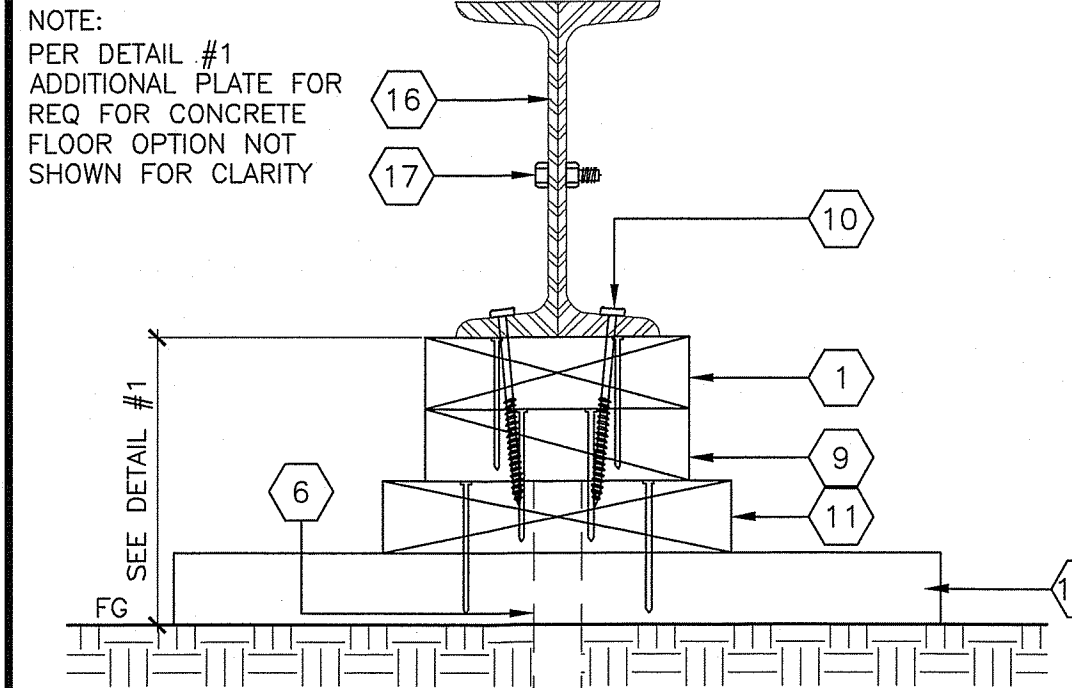
**TYPICAL PERIMETER DETAIL**  
SCALE: 3" = 1'-0"

1



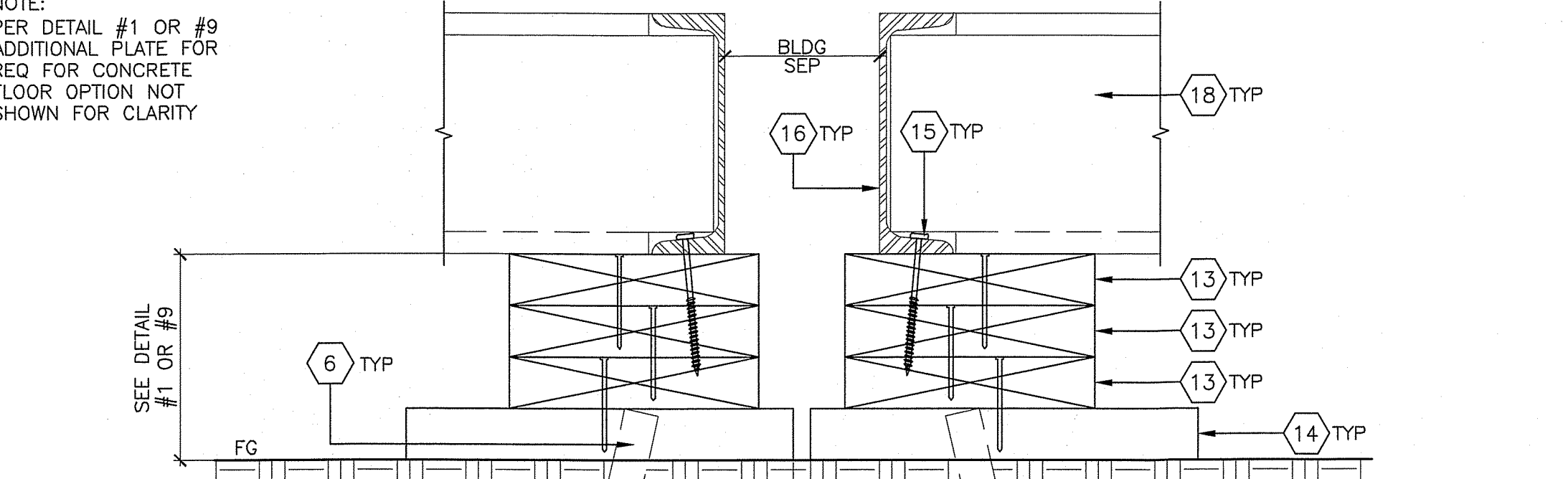
**TYPICAL MODLINE**  
SCALE: 3" = 1'-0"

2



**MODLINE-SIDE BY SIDE SILL PLATE (PLYWOOD FLOORS)**  
SCALE: 3" = 1'-0"

3



**TYPICAL ADJACENT BUILDING SEPARATION**  
SCALE: 3" = 1'-0"

4

## KEY NOTES

- CONTINUOUS TOP PLATE INTSALL NAIL TO EACH PAD WITH 16d BOX NAILS AT 3" OC STAGGERED & (2) 16d NAILS AT EACH END OF SPLICE, MIN 1 1/2" PENETRATION. 1-1/2" OC STAGGERED AT CONC FLOORS. 1" OC STAGGERED AT 125# CONC FLOOR ONLY
- BLOCK PLATES FOR PLYWOOD FLOOR OPTIONS:  
24', 36' & 48' X 40' BUILDINGS - 16d BOX NAILS AT 3" OC FOR 50#, 65# & 100# FLOOR LOADS 1 1/2" OC AT 125# FLOOR LOAD (2) 16d NAILS AT EACH END  
BLOCK PLATES FOR CONCRETE FLOOR OPTIONS:  
24', 36' & 48' X 40' BUILDINGS - 16d BOX NAILS AT 1" OC FOR 50#, 65# & 100# FLOOR LOADS 1" OC AT 125# FLOOR LOAD (2) 16d NAILS AT EACH END
- 1 1/2" MAX TAPERED SHIMS NAIL TO FOUNDATION PLATES WITH 16d BOX NAILS AT 3" OC NAIL STAGGERED ALONG EACH TAPERED SHIM (PER SLOPE OF GROUND AT SITE)
- BLOCK PLATE PLATE SPLICES SHALL OCCUR AT CENTER OF BLOCK PLATE LOCATIONS (SEE GENERAL NOTE #3). REFER TO KEYNOTE #2 FOR NAILING
- CONTINUOUS PRESSURE TREATED SILL PLATE PLATE SPLICES SHALL OCCUR AT CENTER OF BLOCK PLATE LOCATION
- 1" x 13" STANDARD WEIGHT HOT DIPPED GALVANIZED PIPE AT 10'-0" OC MAX. 2'-0" MAX FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES PER DISCONTINUE FOUNDATION STRIP PER DSA IR 16-1.13 SECTION 4.8. DRILL SILL PLATE 1 1/2" MAX HOLE PIPE SHOULD PENETRATE INTO SOIL AND/OR PAVING A MIN OF 12" MEASURED VERTICALLY PIPES SHALL BE INSTALLED ON A CONTINUOUS PLATE. PIPE SHALL BE STAMPED WITH ASTM A53 GRADE 'A' OR 'B' AND MEET THE REQUIREMENTS OF ASTM A123
- 12" X 6" X 10 GA STEEL TIE PLATE (PRIME AND PAINTED) WITH (8) 5/16" HOLES AS SHOWN FOR (4) 1/4"x1" LONG STS INTO CHANNEL & (4) 1/4"x3" LAG SCREW INTO 2x MEMBER TYP LOCATE 4" MIN FROM SPLICES & END OF FOUNDATION PLATES. IF STEEL TIE PLATE IS NOT PRIMED OR PAINTED IT SHALL BE GALV
- 5/8" PLYWOOD PERIMETER SKIRTING. NAIL TO FOUNDATION PLATES WITH 8d BOX NAILS @ 12" OC TOP AND BOTTOM
- MODLINE-BLOCK PLATE NAIL BLOCKS TOGETHER WITH (2) 16d BOX NAILS @ 3" OC AND (2) 16d NAILS AT EACH END
- 5/8" X 4" LAG BOLT AT MODLINE (SEE LAG SCHEDULE FOR AMOUNT). LAG SCREW SHALL BE INSTALLED VERTICALLY OR AT A MAXIMUM 45 DEGREES
- MODLINE-CONTINUOUS PLATE NAIL (2) 16d @ 3" OC AND (2) 16d NAILS AT EACH END
- MODLINE-CONTINUOUS PRESSURE TREATED SILL PLATE FOR PLATE SPLICES SHALL OCCUR AT CENTER OF BLOCK LOCATIONS
- MODLINE-SIDE BY SIDE PRESSURE TREATED SILL PADS
- BUILDING SEPARATION-CONTINUOUS PLATE. REFER TO KEYNOTE #2 FOR NAILING
- BUILDING SEPARATION-SIDE BY SIDE PRESSURE TREATED SILL PADS (SEE BUILDING SEPARATION SCHEDULE FOR QUANTITY)
- 11/16" HOLE IN FLOOR JOIST FOR 5/8" X 4" LAG SCREW (SEE LAG SCHEDULE FOR AMOUNT)
- FLOOR CHANNEL (SEE STRUCTURAL FLOOR FRAMING SHEET)
- MACHINE BOLT (SEE STRUCTURAL BUILDING SECTION SHEET FOR SPACING)
- FLOOR JOIST OR BLOCK
- VENT SCREEN ATTACHED TO FOUNDATION W/ #8 SCREWS AT EACH CORNERS. COORDINATE WITH FOUNDATION PLAN TABLE FOR MAX SPACE BETWEEN FOUNDATION BLOCKS & BUILDING VENTILATION TABLE FOR VENTING REQUIREMENTS TO DETERMINE SIZE OF NET OPENING. VENTING SCREEN SHALL BE 2" LARGER THAN THE SIZE OF THE NET OPENING FOR THE SCREEN TO BE FASTENED ON EACH CORNER. VENTILATION SHALL BE PROVIDED AT A NET AREA OF NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER FLOOR AREA
- 0.145" X 2-7/8" LONG X-CP 72 'HILT' SHOT PIN PER ICC REPORT #ESR-2379 (SEE SCHEDULE FOR QUANTITY, STAGGER SPACING)
- BOTTOM SILL PLATES SIDE BY SIDE
- NOT USED
- PER DETAIL #1
- PER DETAIL #3

## GENERAL NOTES:

- CONTINUOUS PLATES, OTHER THAN TOP OR BOTTOM PLATE, CAN BE CUT AS NECESSARY FOR VENTING PURPOSES
- SEE INDIVIDUAL FOUNDATION SHEETS FOR ALL PLATE, BLOCKS AND SILL PLATE SIZES AS REQUIRED FOR FLOOR LIVE LOAD DESIGN
- BLOCKS ABOVE SILL PLATES ARE TO BE CENTERED
- FOR PROJECT SPECIFIC VARIES SITE, GRADE CONDITIONS, DETAIL #6/- SHALL ONLY APPLY AT MAX TWO BUILDING CORNERS (WHEN NECESSARY) TO ALLOW VENTILATION AT OTHER SIDES OF THE BUILDING. WHEN APPLICABLE (EITHER AT ONE OR TWO BUILDING CORNERS), VERIFY PROPER VENTILATION REQUIREMENTS. IF MIN VENTILATION IS NOT MET, SITE GRADE CONDITION MUST BE RE-GRADED (BY DISTRICT)

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
INCORPORATED

**AURORA MODTECH**  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 665-5600  
FAX: (559) 665-5700  
WEBSITE: WWW.GDMV.NET

SOUTHERN CALIFORNIA DIVISION  
1600 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3662  
WEBSITE: WWW.GDMV.NET

THIS DRAWING AND THE MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

**WOOD PAD FOUNDATION DETAILS**

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

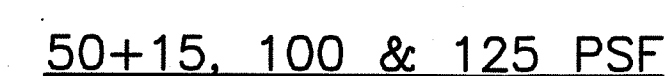
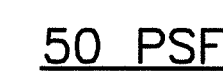
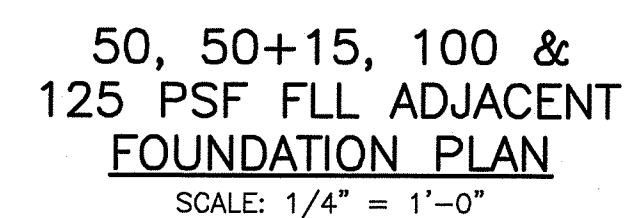
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
DATE: DEC 14 2018

REVISIONS

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER

**F1.0**





## SCHEDULES

(☐=REF LETTERS TO SCHEDULES BELOW TYP)

ADJACENT BUILDING SEPARATION

TOTAL FOUNDATION FOS TO FOS	
-----------------------------	--

TIE PLATE SCHEDULELAG SCH (MODLINE OR SEP)

### MIN FOUNDATION BLOCK SIZES

STAND-ALONE BUILDING VENTILATION		
REQUIRED VENTILATION	MIN VOLUME PER CUBIC FOOT	MIN VENT AREA PER SQUARE FOOT
36'x40' = 9.6 SF	4	5

## KEY NOTES

1. TIE PLATE (SEE SCHEDULE FOR QUANTITY)
2. GALVANIZED PIPE (SEE WOOD PAD FOUNDATION DETAILS SHEET)

GENERAL NOTES:

1. DESIGN ALLOWABLE SOIL BEARING PRESSURE - 1000 PSF
2. ALL FOUNDATION LUMBER SHALL BE HF #2 ALL LUMBER IN CONTACT WITH GRADE SHALL BE STAMPED "FOR GROUND CONTACT" ALL FOUNDATION FASTENERS SHALL BE CORROSION RESISTANT PER 2304.9.5
3. CONTINUOUS TOP PLATE NOT SHOWN FOR CLARITY
4. MAXIMUM 2,160 SQ FT FOR STAND-ALONE WOOD PAD FOUNDATION SYSTEM PER DSA IR 16-1.13
5. MINIMUM (3) SIDES FOR CROSS VENTILIZATION
6. THE ENDWALL SIDE MUST BE VENTED
7. PER SECTION 1203.4.2 EXCEPTION 2, THE TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 OF THE UNDER-FLOOR AREA WHERE THE GROUND SURFACE IS COVERED WITH A CLASS I VAPOR RETARDER MATERIAL AND THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED

PROJECT SPECIFIC STATE AGENCY APPROVAL \_\_\_\_\_

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL  MODULAR**  
Incorporated

**AURORA™** **MODTECH**  **MODULAR STRUCTURES**  
DESIGNS Designs INTERNATIONAL, INC.  
DESIGNS

CONTRACTORS LICENSE #837357

<p><b>NORTHERN CALIFORNIA DIVISON</b>  <b>1200 AIRPORT DRIVE</b>  <b>CHOWCHILLA, CA 93610</b>  <b>PHONE: (559) 685-5800</b>  <b>FAX: (559) 685-5700</b>  <b>WEBSITE: <a href="http://www.GDVI.NET">www.GDVI.NET</a></b></p>	<p><b>SOUTHERN CALIFORNIA DIVISON</b>  <b>1860 CHICAGO AVE., SUITE #M-21</b>  <b>RIVERSIDE, CA 92507</b>  <b>PHONE: (951) 886-3633</b>  <b>FAX: (951) 886-3662</b>  <b>WEBSITE: <a href="http://www.GDVI.NET">www.GDVI.NET</a></b></p>
---	--

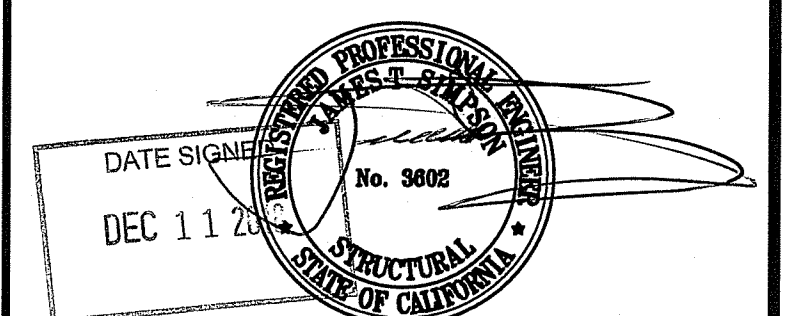
THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISCLOSED IN ANY MANNER, DIRECTLY OR INDIRECTLY, AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSES OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING FROM GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

WOOD PAD FOUNDATION PLAN  
PLYWOOD FLOOR

MFR. STRUCTURAL ENGINEER OF RECORD ON PC



MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS  
REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT

PC 02-116677

FILE #: PC-72  
AC \_\_\_\_\_ FLS \_\_\_\_\_ SS \_\_\_\_\_  
DATE: DEC 14 2018

## REVISIONS

PROJECT NO.: 00-0000

DRAWN BY: 00

SCALE: AS NOTED

DATE: 00-00-00

SHEET NUMBER

## F1.1



GENERAL NOTES

GENERAL NOTES:

- ALL CONSTRUCTION SHALL COMPLY WITH THE 2013 EDITION OF THE CALIFORNIA BUILDING CODE, CCR TITLE 24, PART 2 (CBC) AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1, LATEST REVISIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH APPLICABLE SAFETY REGULATIONS
- DETAILS NOT SPECIFICALLY SHOWN SHALL BE CALLED TO THE ATTENTION OF THE MANUFACTURER OR DESIGN PROFESSIONAL AND DSA.
- THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE OWNER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE OR SHOWN ON THESE DRAWINGS
- TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- WHERE THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE SPECIFICATIONS, THESE GENERAL NOTES AND TYPICAL DETAILS SHALL GOVERN.
- PROVIDE OPENINGS, CURBS, FRAMING AND/OR SUPPORTS FOR ITEMS INDICATED ON ARCHITECTURAL, MECHANICAL, ELECTRICAL OR OTHER DRAWINGS INCLUDED IN CONSTRUCTION DOCUMENTS
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND OTHER INFORMATION NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS
- ALL ELEVATIONS ARE REFERENCED FROM TOP OF FINISHED FIRST FLOOR ELEVATION = 0'-0"
- PROVIDE INSPECTIONS, TESTS AND REPORTS IN ACCORDANCE WITH CCR TITLE 24, PART 2 AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1.
- IN ADDITION TO CONTINUOUS PROJECT INSPECTION, THE FOLLOWING SPECIAL INSPECTIONS SHALL BE REQUIRED, AS A MINIMUM:  
A. INSPECTION OF ALL WELDING FOR STRUCTURAL STEEL, PER TITLE 24, PART 2, SECTION 1705A.2.  
B. INSPECTION FOR CONCRETE AND CONCRETE REINFORCEMENT PLACEMENT, PER TITLE 24, PART 2, SECTION 1705A.3
- ALL REQUIRED INSPECTIONS AND TESTS ARE THE RESPONSIBILITY OF THE OWNER. ALL INSPECTORS SHALL PROVIDE REPORTS AS REQUIRED BY TITLE 24, PART 1, CHAPTER 4, GROUP 1
- DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND ARE PROVIDED AS AN AID IN INTERPRETING THE DRAWINGS ONLY. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN THE EVENT OF CONFLICT, DIMENSIONS AND ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS SHALL GOVERN. DRAWING SCALES GIVEN ARE APPROXIMATE – DO NOT SCALE PLANS OR DETAILS
- WHEN MODULE IS RELOCATED – DO NOT REINSTALL NAILS OR SCREWS IN EXISTING HOLES

WOOD:

- STRUCTURAL FRAMING SHALL BE HEM FIR – LARCH GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR STANDARD GRADING RULES #17 OF THE WEST COAST LUMBER INSPECTION BUREAU, LATEST EDITIONS. GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS. (HEM FIR SOUTH IS NOT ALLOWED.) EACH PIECE SHALL BE GRADE MARKED AND NO PIECE MAY FALL BELOW GRADES INDICATED.
- ALL FRAMING EXCEPT AS NOTED HEM FIR #2
- PLYWOOD SHALL BE AS SHOWN ON THESE DRAWINGS WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD PS 1-09. ALL PANELS SHALL BE MARKED WITH AN APPLICABLE MARK WITH IDENTIFICATION INDEX AS SHOWN ON DRAWINGS. USE 4"x8" PANELS. MINIMUM, EXCEPT AT BOUNDARIES AND FRAMING CHANGES WHERE MINIMUM PANEL DIMENSION SHALL BE 24" AT ROOFS AND FLOORS AND 12" AT WALLS.
- BOLTS FOR TIMBER CONNECTIONS SHALL CONFORM TO ANSI/ASME STANDARD AND 2015 EDITION OF THE NDS. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF OF THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). BOLT HOLES SHALL BE 1/32 TO 1/16 INCH LARGER THAN BOLT DIAMETER. RE-TIGHTEN BOLTS BEFORE CLOSING IN WORK. BOLTS SHALL BE FULL BODY STEEL BOLTS WITH MINIMUM YIELD STRENGTH OF 45,000 PSI
- LAG SCREWS SHALL BE STEEL AND CONFORM TO ANSI/ASME STANDARD AND THE REQUIREMENTS OF THE 2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). HOLES FOR LAG SCREW SHANKS SHALL BE BORED THE SAME DEPTH AND DIAMETER AS THE SHANK. THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE BORED TO 70% OF THE SHANK DIAMETER. ONE QUARTER INCH (1/4") DIAMETER LAG SCREWS NEED NOT HAVE PRE-DRILLED HOLES IF IT CAN BE SHOWN THAT THE WOOD MEMBERS ARE NOT DAMAGED DURING INSTALLATION. PROVIDE FULL DIAMETER BODY LAG SCREWS WITH BENDING YIELD STRENGTHS PER THE 2015 NDS.
- PROVIDE MALLEABLE IRON WASHERS OR EQUIVALENT CUT PLATE WASHERS (NOT LESS THAN A STANDARD CUT WASHER) UNDER NUTS AND BOLT OR LAG SCREW HEADS WHICH BEAR ON WOOD.
- WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD AND THE REQUIREMENTS OF THE 2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER OR USED IN FOUNDATIONS. SCREWS SHALL BE STEEL WITH CUT THREADS AND BENDING YIELD STRENGTHS NDS.
- WOOD MEMBERS SHALL BE CUT OR NOTCHED ONLY AS SHOWN ON STRUCTURAL DRAWINGS.
- WHEN REQUIRED NAILING TENDS TO SPLIT WOOD MEMBERS, NAIL HOLES SHALL BE PRE-BORED TO 3/4 OF THE NAIL DIAMETER.
- STRUCTURAL NAILING SHALL BE WITH FULL HEAD COMMON NAILS PER ALL REQUIREMENTS OF THE 2015 NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE 2304.10.1. ALL NAILS SHALL BE GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER, IN FOUNDATIONS AND AS NOTED ON PLANS. PER THE REQUIREMENTS OF CCR TITLE 24, PART 2, WITH MINIMUM BENDING YIELDS PER THE 2012 NDS. (SEE NAIL EQUIVALENCE BELOW.)
- NAIL EQUIVALENCE: (PROVIDE MINIMUM NAIL LENGTHS AS REQUIRED FOR SPECIFIED PENETRATION, TYP UNO)  
6d EQUALS .113" – PROVIDE 1.36" MIN POINT PENETRATION  
8d EQUALS .131" – PROVIDE 1.57" MIN POINT PENETRATION  
10d EQUALS .148" – PROVIDE 1.78" MIN POINT PENETRATION  
16d EQUALS .182" – PROVIDE 2.19" MIN POINT PENETRATION  
1 1/2" AT 2x MEMBERS
- EXCEPT WHERE MORE STRINGENT CONSTRUCTION IS SHOWN ON THE DRAWINGS, WOOD CONSTRUCTION SHALL COMPLY WITH TITLE 24, PART 2, SECTION 2308, CONVENTIONAL LIGHT-FRAME CONSTRUCTION PROVISIONS, AS A MINIMUM
- PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION 2303.1.9, CCR TITLE 24, PART 2, PROVIDE QUALITY MARK ON ALL TREATED FOUNDATION MEMBERS FROM AGENCY LISTED BY AN ACCREDITATION BODY THAT COMPLIES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARDS TREATED WOOD PROGRAM. ALL FOUNDATION MEMBERS SHALL BE IDENTIFIED PER SECTION 2303.1.9.1. TREAT ALL CUT ENDS OF PRESSURE TREATED MEMBERS WITH AN APPROVED PRESERVATIVE. (WILLARD W/B COPPER GREEN 2x OR AN APPROVED EQUIVALENT). WHERE NOTED, MEMBERS BELOW THE SUB FLOOR THAT ARE NOT A PART OF THE FOUNDATION SHALL BE PRESURE TREATED. A QUALITY CONTROL STAMP IS NOT REQUIRED FOR STRUCTURAL MEMBERS BELOW THE SUB FLOOR THAT ARE NOT PART OF THE FOUNDATION
- MACHINE NAILING IS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OR ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
- POWDER DRIVEN FASTENERS SHALL BE BY HILTI, INC, HILTI FASTENING SYSTEMS – OR EQUAL. INSTALL IN ACCORDANCE WITH DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS AND ICC APPROVALS
- FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL COMPLY WITH SECTION 2304.10.5 OF CBC
- NAILS AND SPIKES USED IN WET OR EXTERIOR LOCATIONS SHALL COMPLY WITH SECTION 2304.10.1.1 OF CBC

CONCRETE:

- CONCRETE SHALL DEVELOP A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS IN ACCORDANCE WITH ASTM C31 AND C39. TESTING SHALL BE IN ACCORDANCE WITH CBC (CCR TITLE 24, PART 2) SECTION 1905A.1.2 AND ACI 318 SECTION 26.4.2. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, OR NOT LESS THAN ONCE FOR EACH 50 CUBIC YARDS (38.3 m<sup>3</sup>) OF CONCRETE, OR NOT LESS THAN 2000 SQUARE FEET (186 m<sup>2</sup>) OF SURFACE AREA FOR SLABS OR WALLS. ADDITIONAL SAMPLES FOR SEVEN-DAY COMPRESSIVE STRENGTH TESTS SHALL BE TAKEN FOR EACH CLASS OF CONCRETE AT THE BEGINNING OF THE CONCRETE WORK OR WHENEVER THE MIX OR AGGREGATE IS CHANGED.
- CONCRETE THAT WILL BE EXPOSED TO FREEZING AND THAWING, DEICING CHEMICALS OR OTHER EXPOSURE CONDITIONS SHALL COMPLY WITH SECTION 19.3, ACI 318-14
- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CBC (CCR TITLE 24, PART 2) AND ACI STANDARD 318, 2014 EDITION, OF THE AMERICAN CONCRETE INSTITUTE, UNLESS SHOWN OR NOTED OTHERWISE ON THESE DRAWINGS.
- AGGREGATE SHALL CONFORM TO ASTM C33 FOR NORMAL CONCRETE WEIGHT AND C330 FOR LIGHT WEIGHT CONCRETE AND CBC SECTION 1903A.
- CEMENT SHALL BE ASTM C150, TYPE I OR TYPE II
- REINFORCING STEEL SHALL BE DEFORMED CONFORMING TO ASTM A615 GRADE 40 UNLESS OTHERWISE NOTED.
- WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185.
- WELDING OF REINFORCING STEEL SHALL BE PERFORMED ONLY WHERE INDICATED ON THE DRAWINGS AND SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS OF THE CBC AND THE REINFORCING STEEL WELDING CODE, AWS D1.4, LATEST REVISION, OF THE AMERICAN WELDING SOCIETY. PROVIDE WELDING PROCEDURE AND MILL TEST REPORTS FOR ALL REINFORCEMENT TO BE WELDED. REINFORCING WITH C.E. ABOVE 75 SHALL NOT BE WELDED. ARCHITECT SHALL APPROVE WELDING PROCEDURE, WELDER QUALIFICATIONS AND MILL TEST REPORTS PRIOR TO EXECUTION OF WELDING. PROVIDE INSPECTION PER SECTION 1705A.3 AND TABLE 1705A.2.1, TITLE 24, PART 2. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.
- CONCRETE FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CBC AND ACI STANDARD 318 UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- LAP SPLICES FOR REINFORCING BARS SHALL BE 72 BAR DIAMETERS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. WIRE BARS TOGETHER AT LAPS OR SPLICES. STAGGER LAPS IN ADJACENT HORIZONTAL OR SLOPING REINFORCEMENT BARS. MINIMUM LAP LENGTH. SPLICE LENGTH. HOOKS AND BENDS SHALL BE ACI 318-14, CHAPTER 25. UNLESS SHOWN OTHERWISE, WELDED WIRE FABRIC SHALL BE SPLICED BY LAPPING A MINIMUM OF 12 INCHES OR TWO CROSS WIRES, WHICHEVER IS GREATER.
- CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ASTM C94 AND ACI STANDARD 304. ALSO COMPLY WITH REQUIREMENTS OF ACI 318-14 CHAPTER 26.
- ALL EMBEDDED ITEMS SHALL BE PLACED ACCURATELY AND SECURED PRIOR TO BEGINNING CONCRETE PLACEMENT.
- CONSTRUCTION JOINTS SHALL BE LOCATED SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. CONSTRUCTION JOINTS SHALL COMPLY WITH ACI 318-14 CHAPTER 26. LOCATE CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS OR APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER AND DSA.
- PROVIDE SHOP DRAWINGS FOR ALL REINFORCING STEEL TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY FABRICATION.
- CONTRACTOR SHALL PREPARE AND SUBMIT CONCRETE MIX DESIGNS TO THE ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ANY CONCRETE. CONCRETE MIX DESIGNS SHALL BE PER CBC SECTION 1905A.1 AND ACI 318-14 SECTION 26.4. A REGISTERED CIVIL ENGINEER WITH EXPERIENCE IN CONCRETE MIX DESIGN SHALL SELECT THE RELATIVE AMOUNTS OF INGREDIENTS TO BE USED AS BASIC PROPORTIONS OF THE CONCRETE MIXES PROPOSED FOR USE UNDER THIS PROVISION AND TESTING SHALL BE PERFORMED IN A LABORATORY ACCEPTABLE TO THE ENFORCEMENT AGENCY. ALL GROUT SHALL BE NONMETALLIC NON-SHRINKING HIGH STRENGTH GROUT BY MASTER BUILDERS OR EQUIVALENT AS APPROVED BY THE ARCHITECT. UTILIZE PRODUCTS RECOMMENDED BY THE MANUFACTURER FOR EACH APPLICATION AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- REINFORCING AND EMBEDMENT ITEMS SHALL BE FREE OF EXCESSIVE SCALE OR RUST, DIRT, GREASE, OIL OR ANY OTHER SUBSTANCE THAT WILL IMPAIR BOND WITH CONCRETE.
- OWNER SHALL PROVIDE INSPECTIONS IN ACCORDANCE WITH CCR TITLE 24 FOR THE PLACEMENT OF CONCRETE AND CONCRETE REINFORCEMENT, FOR BOLTS INSTALLED IN CONCRETE AND FOR SAMPLING CONCRETE. OWNER'S INSPECTOR SHALL PROVIDE INSPECTION REPORTS TO THE ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
- ADDITIONALLY, PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH TITLE 24, PART 2, SECTION 1713A. A PLACING RECORD SHALL BE MAINTAINED FOR ALL CONCRETE PLACED IN THE STRUCTURE.
- BATCH PLANT INSPECTION, CEMENT AND REINFORCING TESTS ARE NOT REQUIRED. FOR SINGLE-STORY LIGHT FRAMED BUILDINGS AND ISOLATED FOUNDATIONS SUPPORTING EQUIPMENT ONLY, WHERE THE SPECIFIED COMPRESSIVE STRENGTH  $f_c$  OF THE CONCRETE DELIVERED TO THE JOBSITE IS 3,500 PSI (24.13 MPa) AND WHERE THE  $f_c$  USED IN THE DESIGN IS NOT GREATER THAN 3,000 PSI (20.68 MPa), THE QUANTITIES OF CONCRETE MATERIALS SHALL BE CERTIFIED BY A LICENSED WEIGHMASTER AND THE QUALITY OF MATERIALS SHALL BE VERIFIED BY THE OWNER'S TESTING AGENCY.
- QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT THE START OF THE DAY.  
2. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A BATCH TICKET.  
3. BATCH TICKETS, INCLUDING ACTUAL MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD AND SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THERON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, TIME OF RECEIPT AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.
- COMPLY WITH ALL REQUIREMENTS OF TITLE 24, PART 2, SECTIONS 1705A.3.3.
- ALL CONCRETE WORK SHALL BE FORMED. CASTING OF FOUNDATION CONCRETE AGAINST SIDES OF FOOTING EXCAVATIONS SHALL NOT BE ALLOWED EXCEPT AS SPECIFICALLY APPROVED BY ARCHITECT, STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
- MAX CONC SLUMP TO BE 4"±1"

CONCRETE FOUNDATION:

- FOUNDATION BEARING SHALL BE AS APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE OWNER'S ARCHITECT. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP THE ALLOWABLE BEARING PRESSURE NOTED BELOW.
- CONCRETE FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF PER TITLE 24, TABLE 1806A.2.
- THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE TYPICAL FOOTING STEP DETAILS ON THESE DRAWINGS.
- CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE INDICATED ON THESE DRAWINGS.
- PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT POND OR OTHERWISE COLLECT UNDER THE BUILDING.
- FOUNDATIONS ARE DESIGNED AS PERMANENT FOUNDATIONS IN ACCORDANCE WITH TITLE 24, CHAPTER 18A.
- ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM THESE RELOCATABLE BUILDINGS. SEE COVER SHEET FOR MINIMUM SEPARATION REQUIRED

STRUCTURAL STEEL:

- NOT USED
- NOT USED
- NOT USED
- ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC) AND THE STRUCTURAL WELDING CODE – STEEL, AWS D1.1, 2010 EDITION OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY SHIELDING ELECTRIC-ARC OR FLUX-CORED WELDING COMPLYING WITH AWS.
- FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 14TH EDITION OF THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) (CBC CHAPTER 22A). ALSO COMPLY WITH REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. TEMPORARY BRACING IS REQUIRED AS NEEDED UNTIL ALL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS ARE IN PLACE.
- PRIME ALL STEEL SURFACES WITH AN APPROVED PRIMER, EXCEPT SURFACES TO BE EMBEDDED IN CONCRETE AND SURFACES TO RECEIVE FIELD WELDS. TOUCH-UP FIELD WELDS AND OTHER EXPOSED STEEL SURFACES AFTER ERECTION. ALTERNATE: PROVIDE GALVANIZED PER ASTM A-123.
- PROVIDE TESTS AND INSPECTIONS IN ACCORDANCE WITH CCR TITLE 24, PART 2, SECTION 1705A.2. ALL STEEL SHALL BE PROPERLY IDENTIFIED PER SECTION 2203A.
- WELDING SHALL BE IN ACCORDANCE WITH CCR TITLE 24, PART 2, SECTION 1705A.2
- ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE- RESISTING SYSTEM SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 ft-lbs at 0 DEGREES F, AS REQ. BY SEC. 2212A.2.3
- QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. ALL WELDING TO CONFORM TO THE 2010 EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE AWS D1.1
- MATERIALS:  
ROLLED STRUCTURAL STEEL SHAPES ASTM A-992, GRADE 50  
ANGLES, MISC STEEL ASTM A36  
MISCELLANEOUS PLATES ASTM A-572 GRADE 50  
STRUCTURAL STEEL PIPES ASTM A53 TYPE E OR S, GRADE B  
AWS STRUCTURAL STEEL E70XX,  
REINFORCING STEEL E90XX  
ASTM F-1554 GRADE 36  
ASTM A-325  
ASTM A-307  
ASTM A-123  
TT-P-645 ASTM  
ASTM A-500 GRADE B ( $f_y = 46$  KSI)  
ANCHOR BOLTS  
TYPICAL STEEL CONNECTION BOLTS  
MISCELLANEOUS BOLTS  
GALVANIZING  
RUSH-INHIBITING PRIMER  
STEEL TUBING
- CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS
- BURNING OF HOLES IS NOT ALLOWED
- INSPECTION OF WELDING SHALL CONFORM TO CBC REQUIREMENTS (CHAPTER 17A)
- THE STRUCTURAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION
- BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLTS USED, UNO

PAD FOUNDATIONS: (RESTRAINED)

- FOUNDATION BEARING SHALL BE AS APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AND THE OWNER'S ARCHITECT. IT IS THE SCHOOL DISTRICT'S RESPONSIBILITY TO PROVIDE ADEQUATE BEARING TO DEVELOP THE ALLOWABLE BEARING PRESSURE NOTED BELOW
- FOUNDATIONS ARE DESIGNED FOR A MAXIMUM DEAD PLUS LIVE LOAD ALLOWABLE SOIL BEARING PRESSURE OF 1000 PSF, AS PER IR 16-1.16
- THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE UTILIZING THE FOOTING SHIM DETAILS ON THESE DRAMGS.
- CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE INDICATED ON THESE DRAWINGS
- PROVIDE PROPER GRADING OF SITE SUCH THAT WATER DOES NOT POND OR OTHERWISE COLLECT UNDER THE BUILDING.
- VERIFY THAT NO PIPES, UTILITIES, OR OTHER SUCH ITEMS OCCUR BELOW FOOTINGS.
- FOUNDATIONS ARE DESIGNED AS "RESTRAINED FOUNDATION", IN ACCORDANCE WITH IR 16-1.16, SUBSTANDARD FOUNDATIONS  
a. ANCHOR FOOTINGS AT BUILDING PERIMETER WITH 1"Ø HOT DIPPED GALVANIZED STANDARD WEIGHT STEEL PIPES DRIVEN FLUSH WITH TOP OF WOOD FOUNDATION PADS AND PENETRATING SOIL 12" MINIMUM AT A MAXIMUM SPACING OF 10'-0" OC AT SIDEWALLS AND 2'-0" FROM EACH CORNER IN BOTH DIRECTIONS  
b. STAIRS AND RAMPS SHALL BE PROPERLY ANCHORED TO BUILDING TO PREVENT SEPARATION  
c. ALL BUILDINGS, PERMANENT OR OTHER RELOCATABLE, ADJACENT TO THESE RELOCATABLE BUILDINGS MUST BE SEPARATED FROM THESE RELOCATABLE BUILDINGS BY 4 1/2" MINIMUM
- FINISH GRADES SHALL BE WITHIN MAX 18" BELOW BOTTOM OF FLOOR JOISTS WITHOUT EXCEPTION
- THE TIE PLATE WHICH ATTACHES THE FLOOR BEAM TO THE WOOD FOUNDATION AND THAT IS EXPOSED TO THE WEATHER IS TO BE GALVANIZED. TEK SCREWS THAT ATTACH THE TIE PLATE TO THE FLOOR BEAM ARE TO BE HOT-DIPPED GALVANIZED. ANCHOR BOLTS AND MECHANICAL EXPANSION ANCHORS WHICH ARE EXPOSED TO THE WEATHER ARE TO BE PAINTED WITH ZINC-BASED PAINT

ACCEPTABLE FASTENERS / ICC REPORTS:

SHOT PIN THROUGH LIGHTWEIGHT CONCRETE: ICC REPORT #ESR-2269. ALTERNATE SHOT PIN #ESR-1752  
SHOT PIN THROUGH LIGHT GAUGE STEEL: ICC REPORT #ESR-2269  
WOOD/METAL JAMB STUDS TO STEEL COLUMN: ICC REPORT #ESR-2269

SELF-TAPPING SCREWS SECT 3.2.12 ASTM C1513  
SELF-DRILLING SCREWS SECT 3.2.9 ASTM C1513  
SELF-PIERCING SCREWS SECT 3.2.9 ASTM C1513

REFERENCE ASTM C1513, STANDARD SPECIFICATION FOR TAPPING SCREWS FOR COLD-FORMED STEEL FRAMING CONNECTION

REFERENCE AISI S213-07/S1-09, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING-LATERAL DESIGN

FASTENERS MANUFACTURED WITH CARBON STEEL WIRE SHALL CONFORM TO ASTM A510

TESTING – THE OPERATOR, TOOL, AND FASTENER SHALL BE PRE-QUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TEST UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

MACHINE APPLIED NAILING:

USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD, IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR HAND HAMMER NAILING, OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND MACHINE NAILING SHALL BE DISCONTINUED.

COLD FORMED STRUCTURAL STEEL:

- ALL LIGHT GAUGE METAL FRAMING SHALL BE THE TYPE, SIZE AND GAUGE AS SHOWN ON THE PLANS AND BE FABRICATED AND ERECTED IN ACCORDANCE WITH LATEST AISI SPECIFICATIONS
- ALL GALVANIZED STUDS, TRACKS, AND OR JOISTS 12, 14, AND 16 GAUGE SHALL CONFORM TO ASTM A653, SS GRADE 50 ( $f_y = 50$  KSI) AND ASTM A653, SS GRADE 33 ( $f_y = 33$  KSI) FOR 18 AND 20 GAUGE UNO
- CORROSION PROTECT PER TABLE A4-1 BELOW
- GALVANIZED COATINGS MUST MEET ASTM A-525 SPECIFICATIONS
- CARBON SHEET STEEL MUST MEET THE MINIMUM REQUIREMENTS OF ASTM A-1011 GRADE 40 KSI FOR 12, 14, AND 16 GAUGE AND GRADE 33 KSI FOR 18 GAUGE AND LIGHT MEMBERS UNO. CARBON SHEET STEEL PRODUCTS MUST BE THOROUGHLY COATED WITH A RUST INHIBITIVE PAINT.
- ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) \*SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS LATEST EDITION (AISI S100-12).
- METAL STUDS AND OR JOIST  
A. FOR METAL STUD WALLS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, PROVIDE STANDARD PUNCHED STEEL MEMBERS OF THE GAUGES SHOWN ON THE DRAWINGS.  
B. USE ONLY ONE TYPE THROUGHOUT THE WORK, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFICALLY APPROVED IN ADVANCE BY THE ARCHITECT/ENGINEER
- PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED
- FASTENINGS OF COMPONENTS SHALL BE WITH SELF-DRILLINGS SCREWS OR WELDING. SCREWS OR WELDS SHALL BE SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT
- ALL METAL STUDS SHALL BE BY SSMA APPROVED SUPPLIED, ICC ERS-3064P. ALTERNATE METAL STUDS MUST BE OF EQUAL OR GREATER SECTIONS PROPERTIES AND SHALL BE APPROVED BY THE ENGINEER
- PROVIDE SHOP DRAWINGS INDICATING MEMBERS GAUGES, SHAPES, SIZES, SPACING, LOCATIONS AND CONNECTIONS
- STUDS SHALL BE INSTALLED WITH THEIR BEARING ENDS POSITIONED FLUSH AGAINST THE INSIDE TRACK WEB.
- FULL-HEIGHT DOUBLE STUDS SHALL BE PROVIDED AT THE ENDS OF PARTITIONS, AT ALL WALL OPENINGS, AND AT OTHER LOCATIONS SHOWN ON THE PLANS
- BRIDGING SHALL BE COLD FORMED CHANNEL, MINIMUM 1-1/2" DEEP WITH 9/16" FLANGE SPACED AT 4'-0" ON CENTER MAXIMUM VERTICALLY. DOUBLE UP STUDS AT ALL DOOR JAMBS, WALL ENDS AND WALL CORNERS
- SHEATHING SHALL BE ATTACHED TO BOTH FACES OF METAL STUDS THROUGHOUT THEIR LENGTH UNO
- TRACK AT TOP AND BOTTOM OF STUD WALLS SHALL AT A MINIMUM MATCH THE STUD GRADE UNO
- ALL SHEET METAL SCREWS SHALL BE THREAD FORMING OR THREAD CUTTING, WITH OR WITHOUT A SELF-DRILLING POINT PER AISI
- ALL WELDING OR MATERIAL LESS THAN 0.18 INCHES IN THICKNESS SHALL BE MADE IN ACCORDANCE WITH THE AWS D1.3 WELDER'S AND WELDING PROCEDURES AND SHALL BE QUALIFIED AS SPECIFIED IN AWS D1.3
- TOUCH UP COLD GALVANIZING USING ZRC CHEMICAL PRODUCTS CO.M, ZRC COLD GALVANIZING COMPOUND OR EQUAL
- SPLICES IN STUDS SHALL NOT BE PERMITTED

A4 Corrosion Protection

A4.1 Structural members utilized in cold-formed steel framed construction shall have a protective coating as specified in Table A4-1.

Coating Designation		Minimum Coating Requirements			
		Zinc Coated <sup>a</sup> oz/ft <sup>2</sup> (g/m <sup>2</sup> )	Zinc Iron <sup>b</sup> oz/ft <sup>2</sup> (g/m <sup>2</sup> )	55% Al-Zinc <sup>c</sup> oz/ft <sup>2</sup> (g/m <sup>2</sup> )	Zinc-5% <sup>d</sup> oz/ft <sup>2</sup> (g/m <sup>2</sup> )
Metallic Coated	CP 60	680 (2180)	860 (27180)	A250 (A2M150)	2750 (22990)
	CP 90	690 (2275)	N/A Applicable	A250 (A2M150)	2745 (229139)
Painted Metallic	PM	The metallic coated substrate shall meet the requirements of metallic coated. In addition, the paint film shall have a minimum thickness of 0.5 mil per side (primer plus topcoat) with a minimum primer thickness of 0.1 mil per side.			

<sup>a</sup> Zinc-coated steel sheet as described in ASTM A653/A653M.  
<sup>b</sup> Zinc-iron alloy-coated steel sheet as described in ASTM A653/A653M.  
<sup>c</sup> 55% aluminum-zinc alloy-coated steel sheet as described in ASTM A792/A792M.  
<sup>d</sup> Zinc-5% aluminum alloy-coated steel sheet as described in ASTM A875/A875M.  
In accordance with the requirements of ASTM A1030/A1030M.

For Canada: Structural members utilized in cold-formed steel framed construction shall have a metallic coating of G60 [Z180] complying with the requirements of ASTM A653/A653M or A250 [A2M150] complying with the requirements of ASTM A792/A792M.

A4.2 Additional corrosion protection shall not be required on edges of metallic-coated steel framing members, shop or field cut, punched or drilled.

A4.3 Unless additional corrosion protection is provided, framing members shall be located within the building envelope and shielded from direct contact with moisture from the ground or the outdoor climate.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020



CONTRACTORS LICENSE #B37357

NORTHERN CALIFORNIA DIVISION 1200 AIRPORT DRIVE SUITE #M-21 CHOWCHILLA, CA 93610  
PHONE: (559) 665-5800 FAX: (559) 665-5700  
WEBSITE: WWW.GDMV.NET  
SOUTHERN CALIFORNIA DIVISION 5600 CHERRY AVE. RIVERSIDE, CA 92507  
PHONE: (951) 686-3633 FAX: (951) 686-3636  
WEBSITE: WWW.GDMV.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

STRUCTURAL NOTES AND SPECIFICATIONS

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2016  
ARCHITECT OF RECORD

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

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

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # PC-12  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2016

REVISIONS

△ -  
△ -  
△ -  
△ -  
△ -  
△ -  
△ -  
△ -  
△ -

PROJECT NO.: 00-0000

DRAWN BY: 00

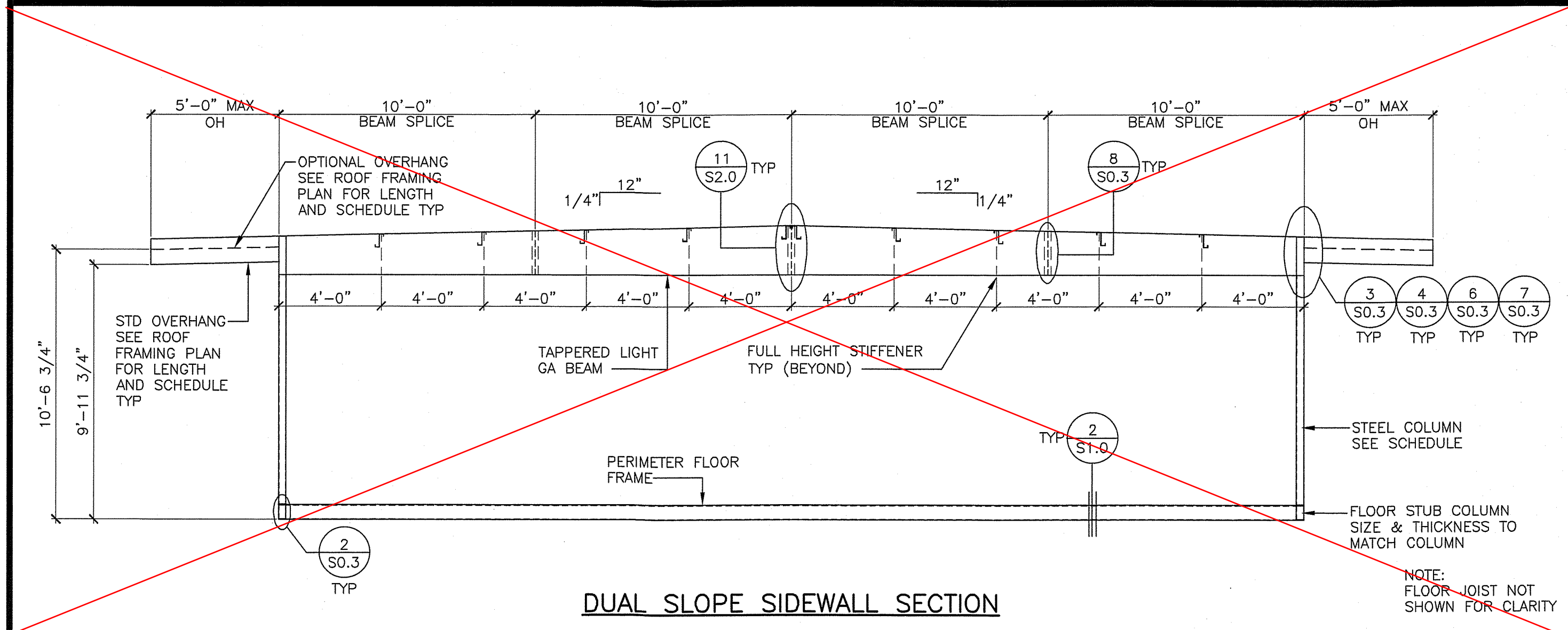
SCALE: AS NOTED

DATE: 00-00-00

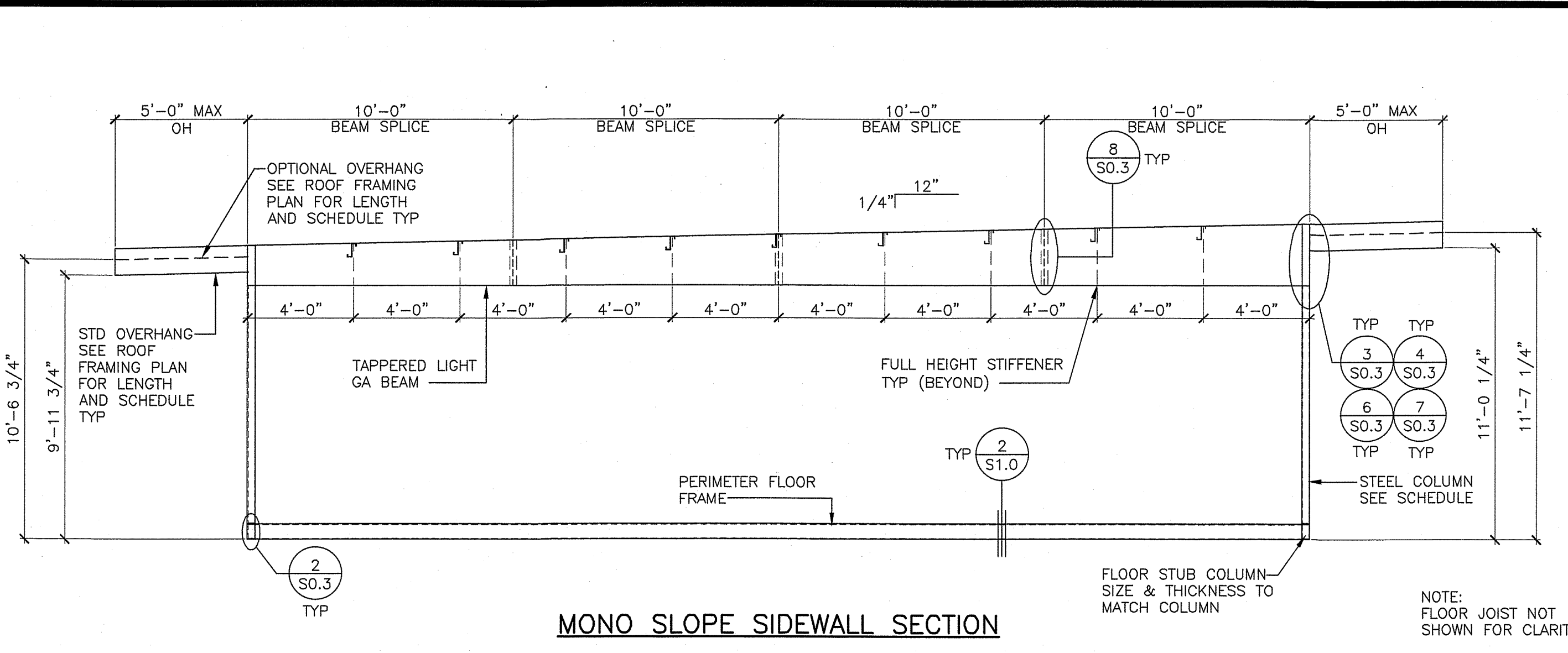
SHEET NUMBER

S0.0a

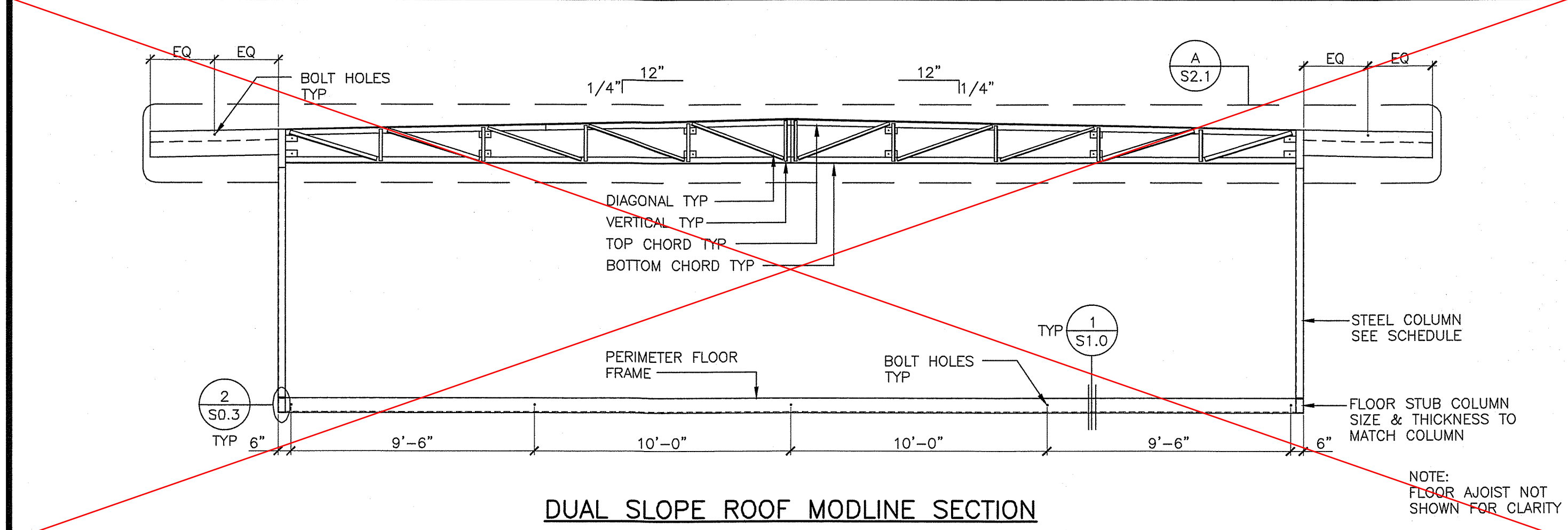




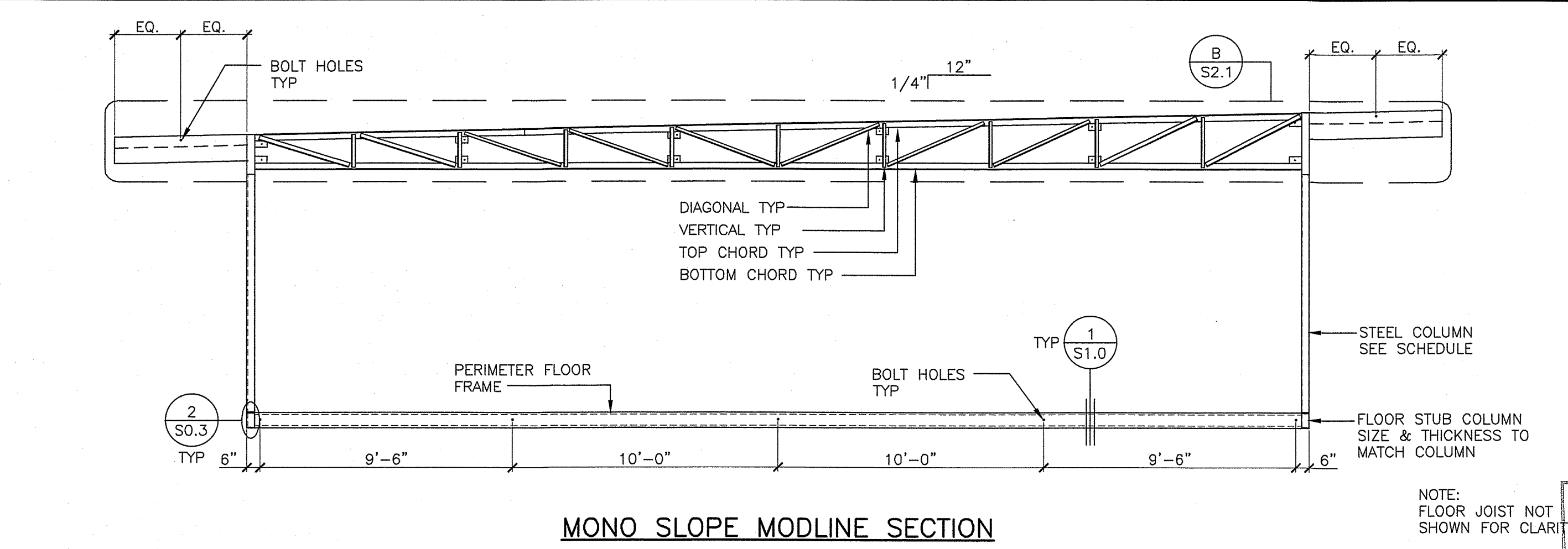
DUAL SLOPE SIDEWALL SECTION



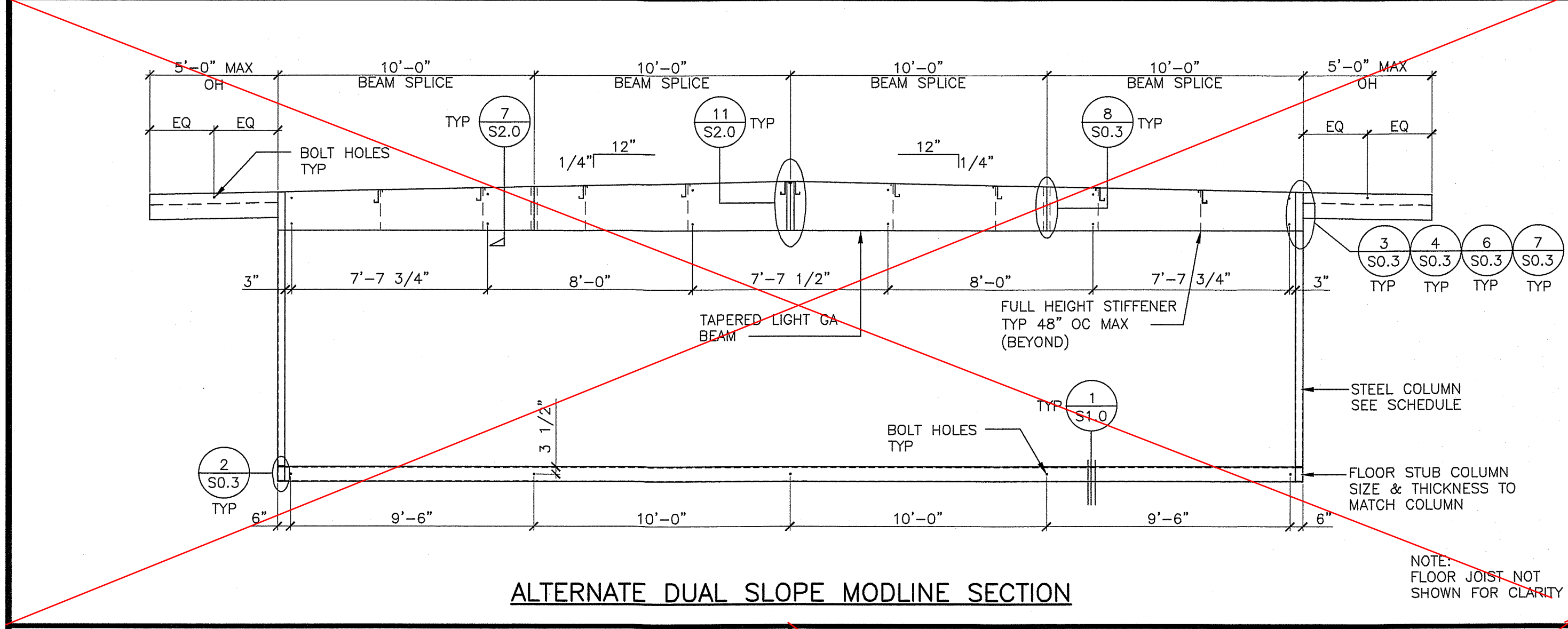
MONO SLOPE SIDEWALL SECTION



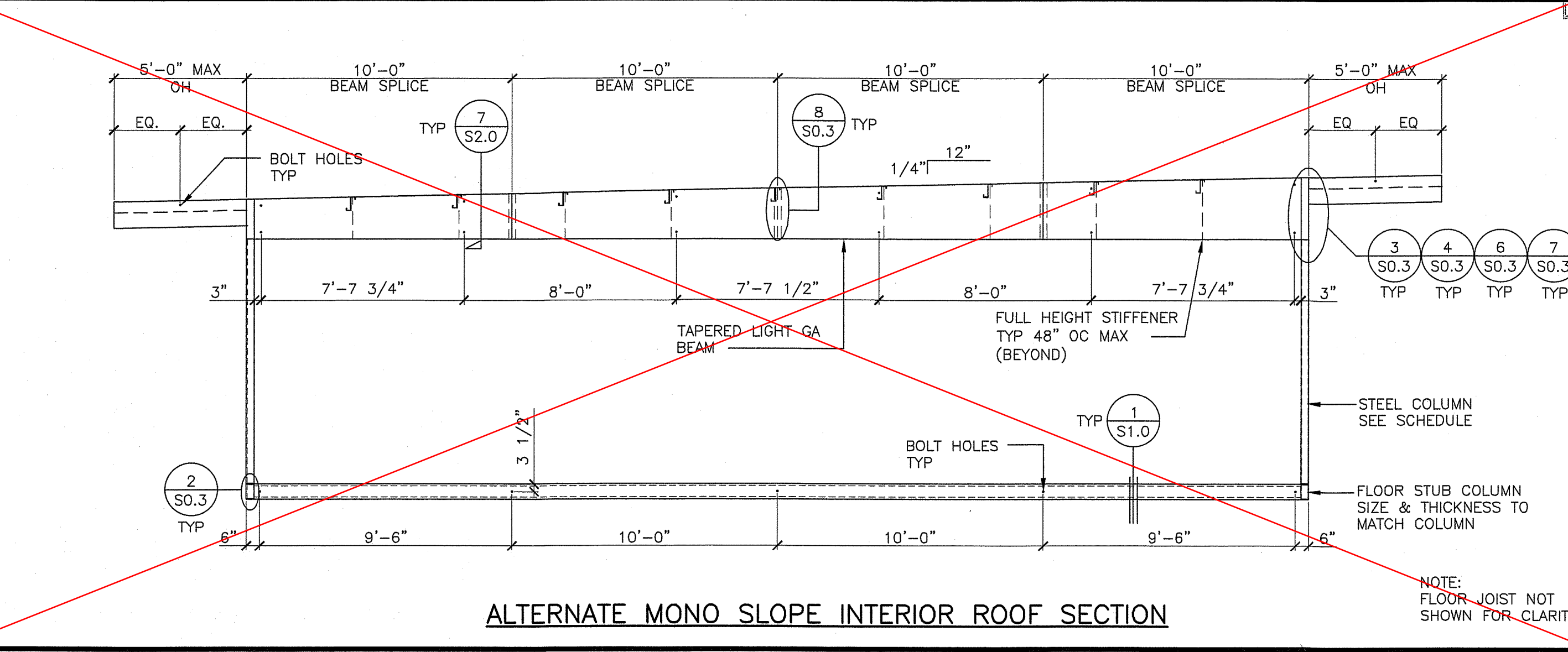
DUAL SLOPE ROOF MODLINE SECTION



MONO SLOPE ROOF MODLINE SECTION



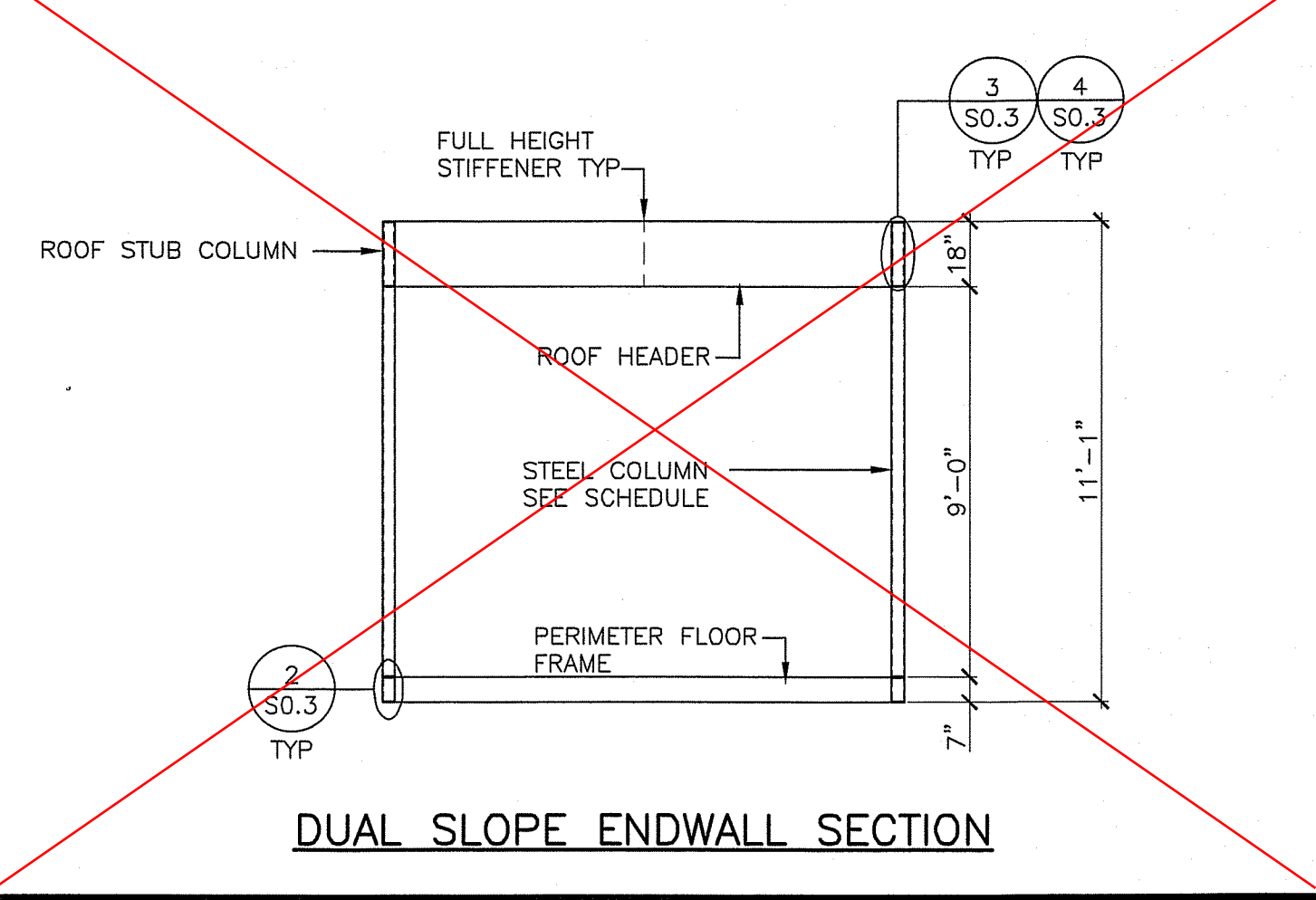
ALTERNATE DUAL SLOPE MODLINE SECTION



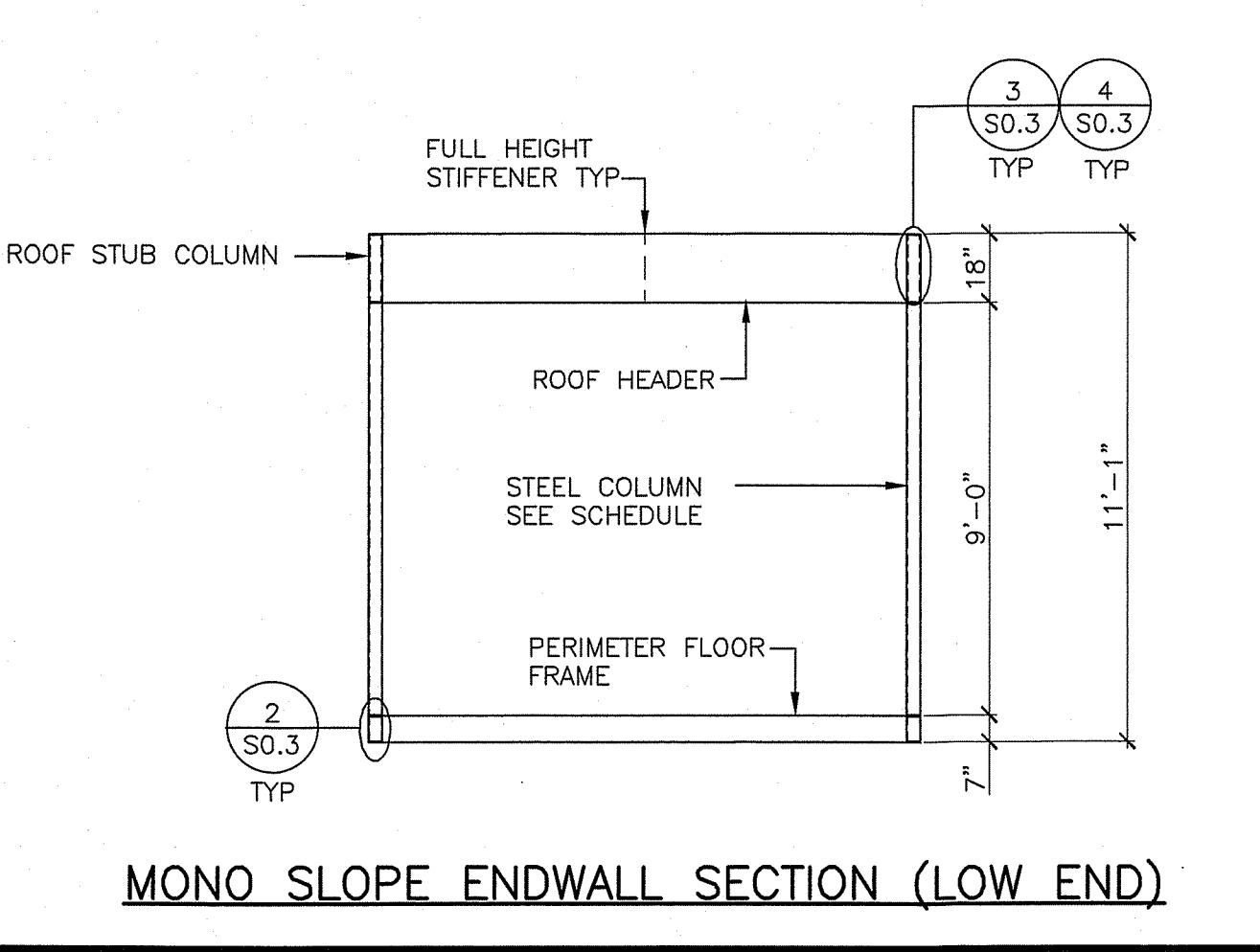
ALTERNATE MONO SLOPE INTERIOR ROOF SECTION

STEEL COLUMNS	
CORNER COLUMNS:	4"x4"x3/8"
MIDSPAN COLUMN @ SIDEWALL:	N/A
REFERENCE:	FRAME SECTION SHEETS
MISC:	(NOTE: THE STEEL POST HEIGHT IS FROM TOP OF FLOOR BM TO BTM OF SIDEWALL BEAM/HEADER)

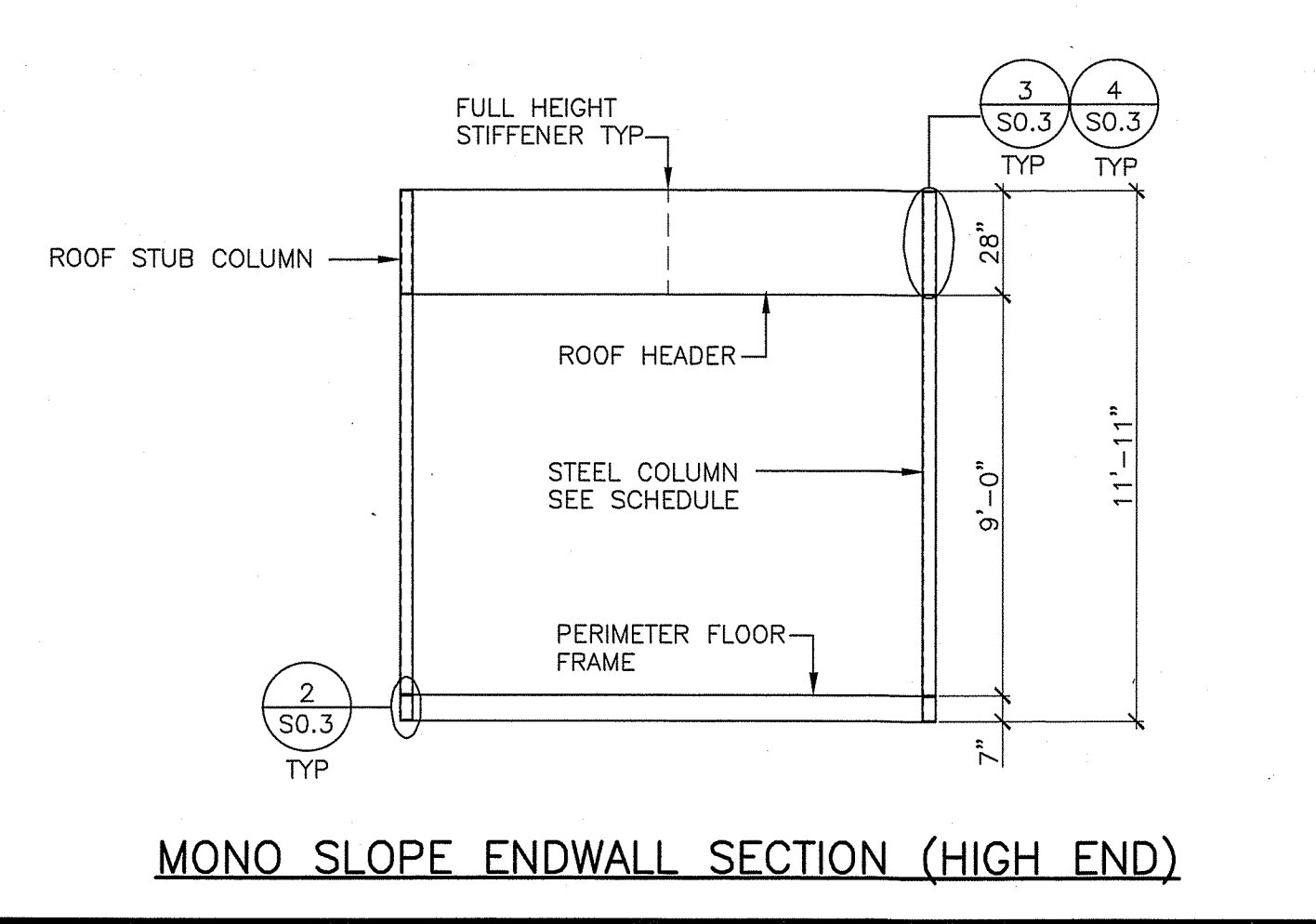
COLUMN SCHEDULE



DUAL SLOPE ENDWALL SECTION



MONO SLOPE ENDWALL SECTION (LOW END)



MONO SLOPE ENDWALL SECTION (HIGH END)

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

GLOBAL MODULAR  
Incorporated  
Aurora Modtech  
CONTRACTORS LICENSE #837357  
NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHICOHILLA, CA 95910  
PHONE: (559) 665-5800  
FAX: (559) 665-9700  
WEBSITE: WWW.GMOD.NET  
SOUTHERN CALIFORNIA DIVISION  
1660 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 688-3633  
FAX: (951) 688-3662  
WEBSITE: WWW.GMOD.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:  
BUILDING SECTIONS  
PLYWOOD FLOOR

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # PC-72  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2018

REVISIONS

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00

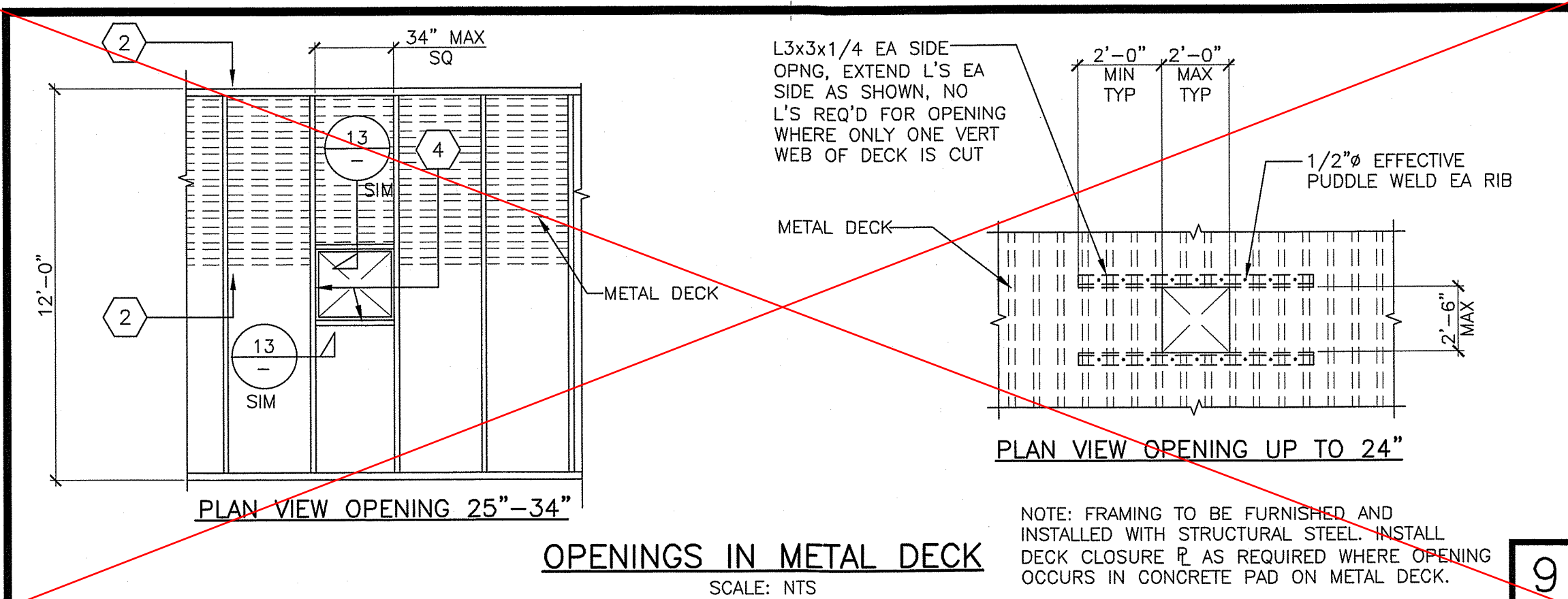
SHEET NUMBER

S0.1



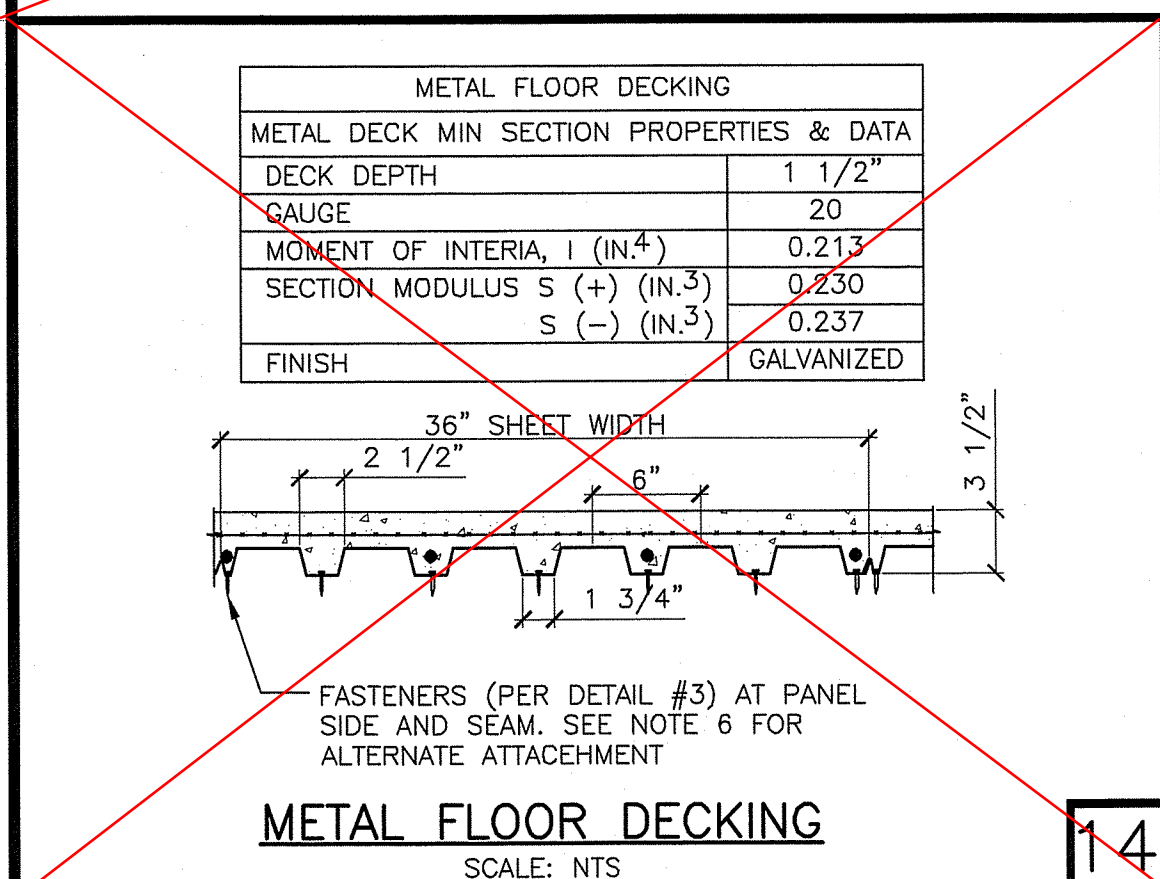






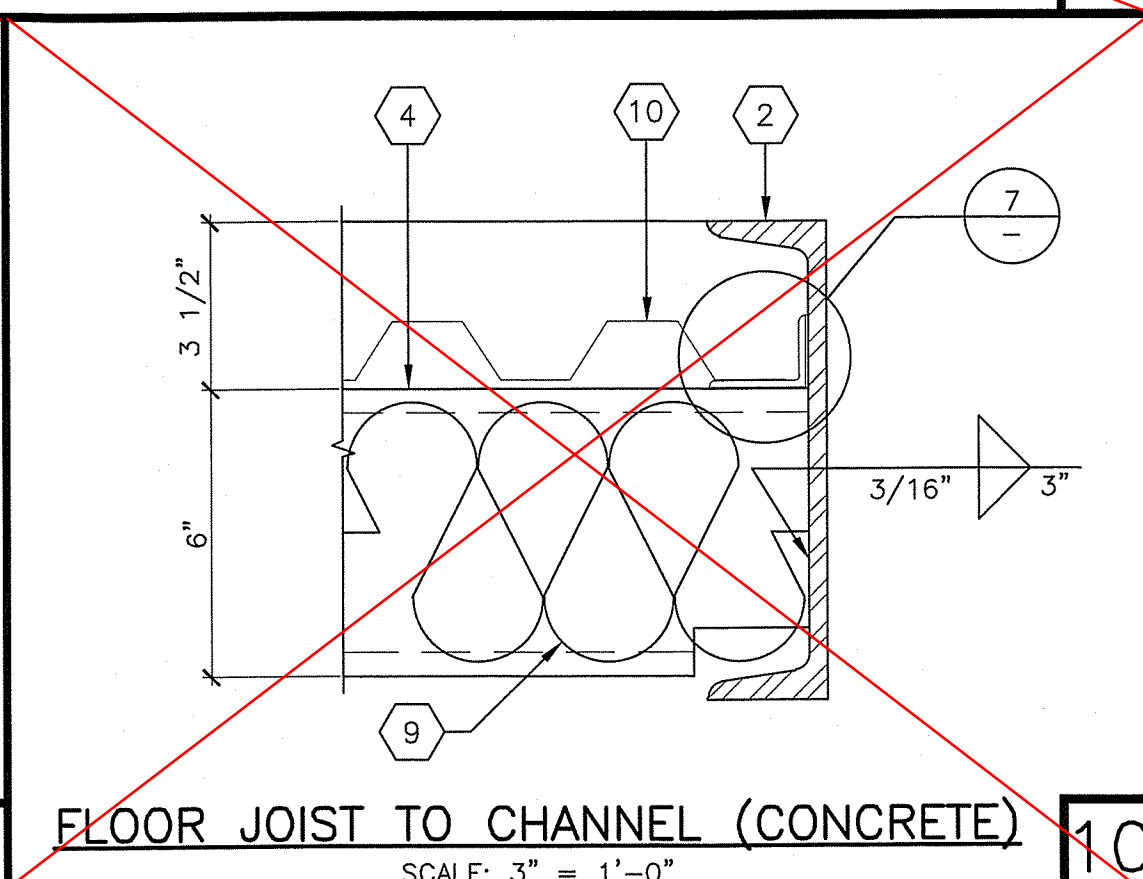
OPENINGS IN METAL DECK  
SCALE: NTS

9



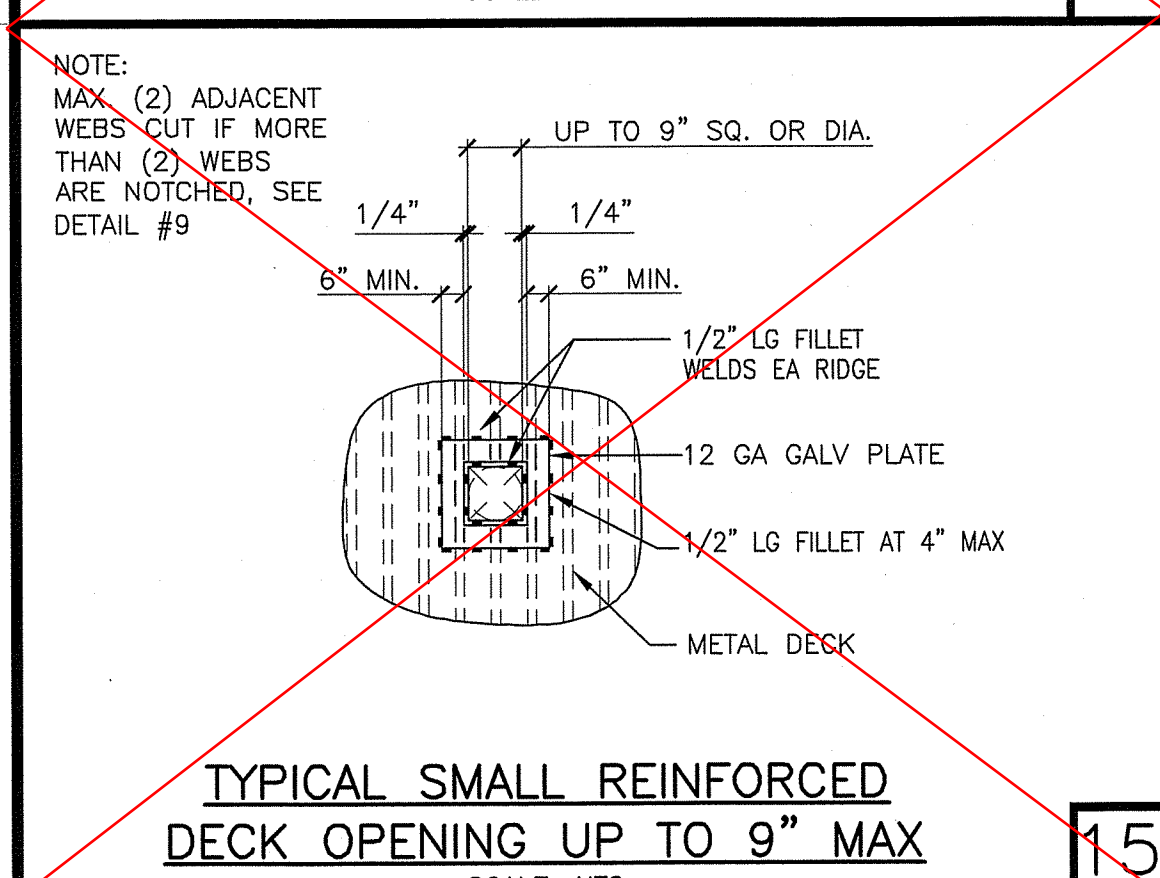
METAL FLOOR DECKING  
SCALE: NTS

14



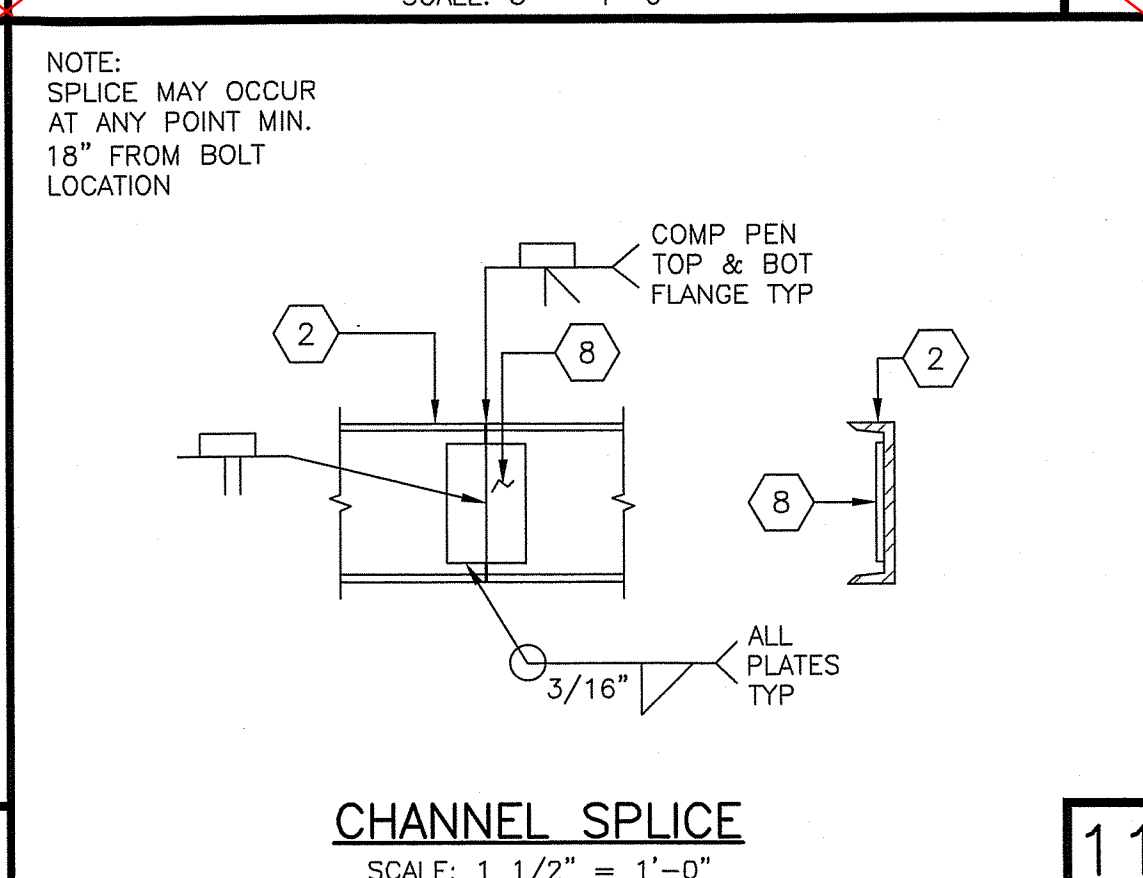
FLOOR JOIST TO CHANNEL (CONCRETE)  
SCALE: 3" = 1'-0"

10



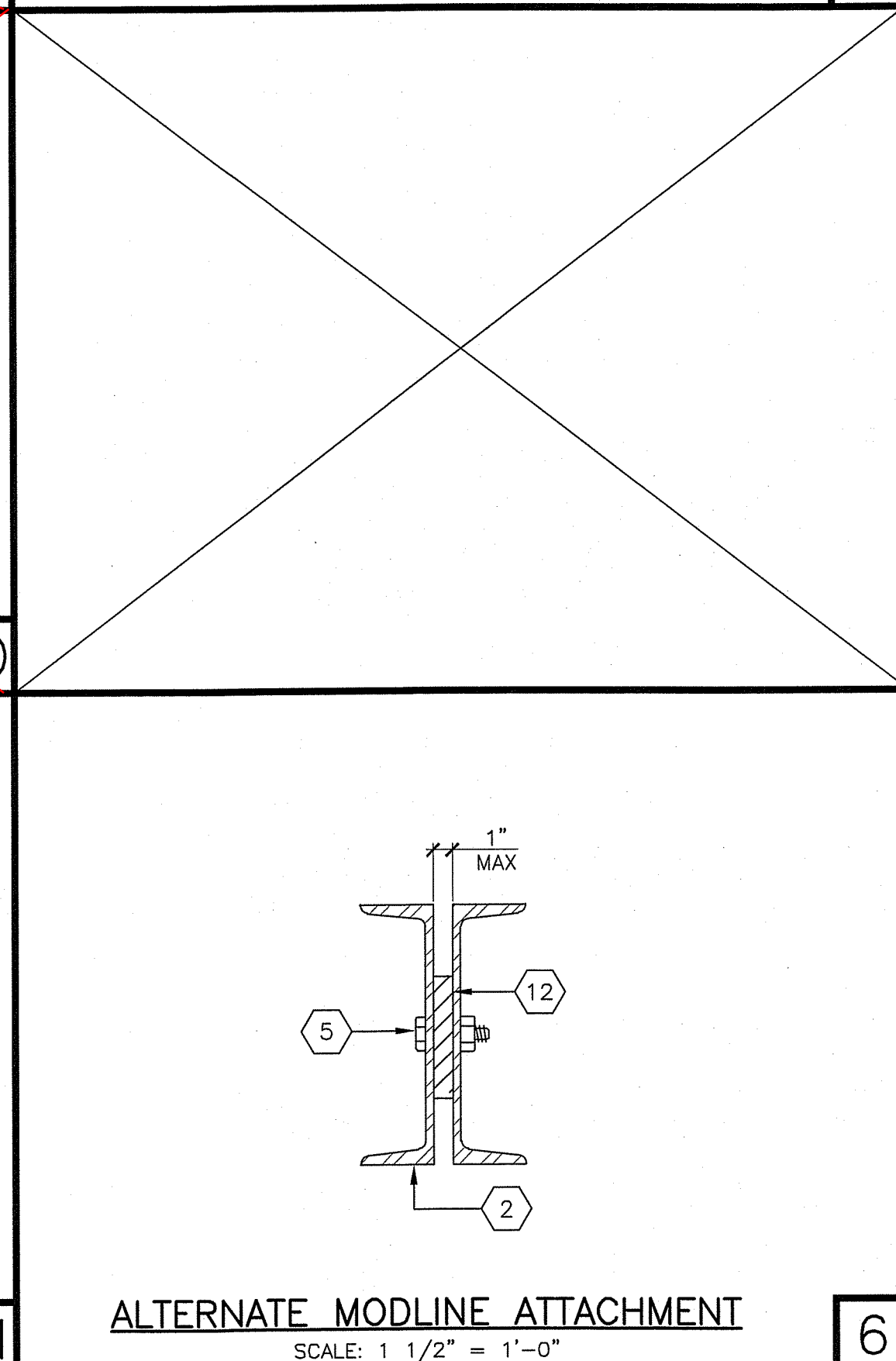
TYPICAL SMALL REINFORCED  
DECK OPENING UP TO 9" MAX  
SCALE: NTS

15



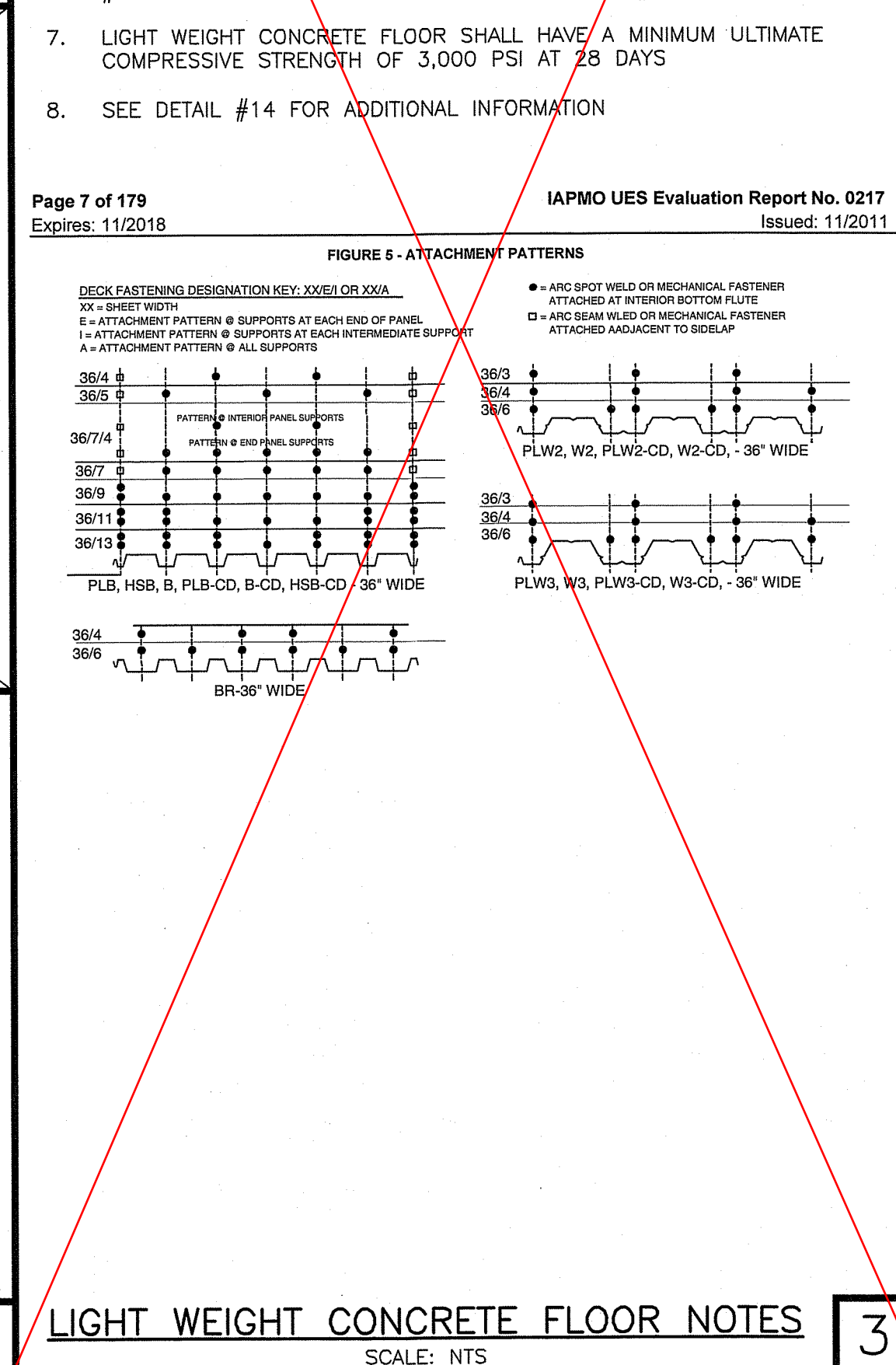
CHANNEL SPLICE  
SCALE: 1 1/2" = 1'-0"

11



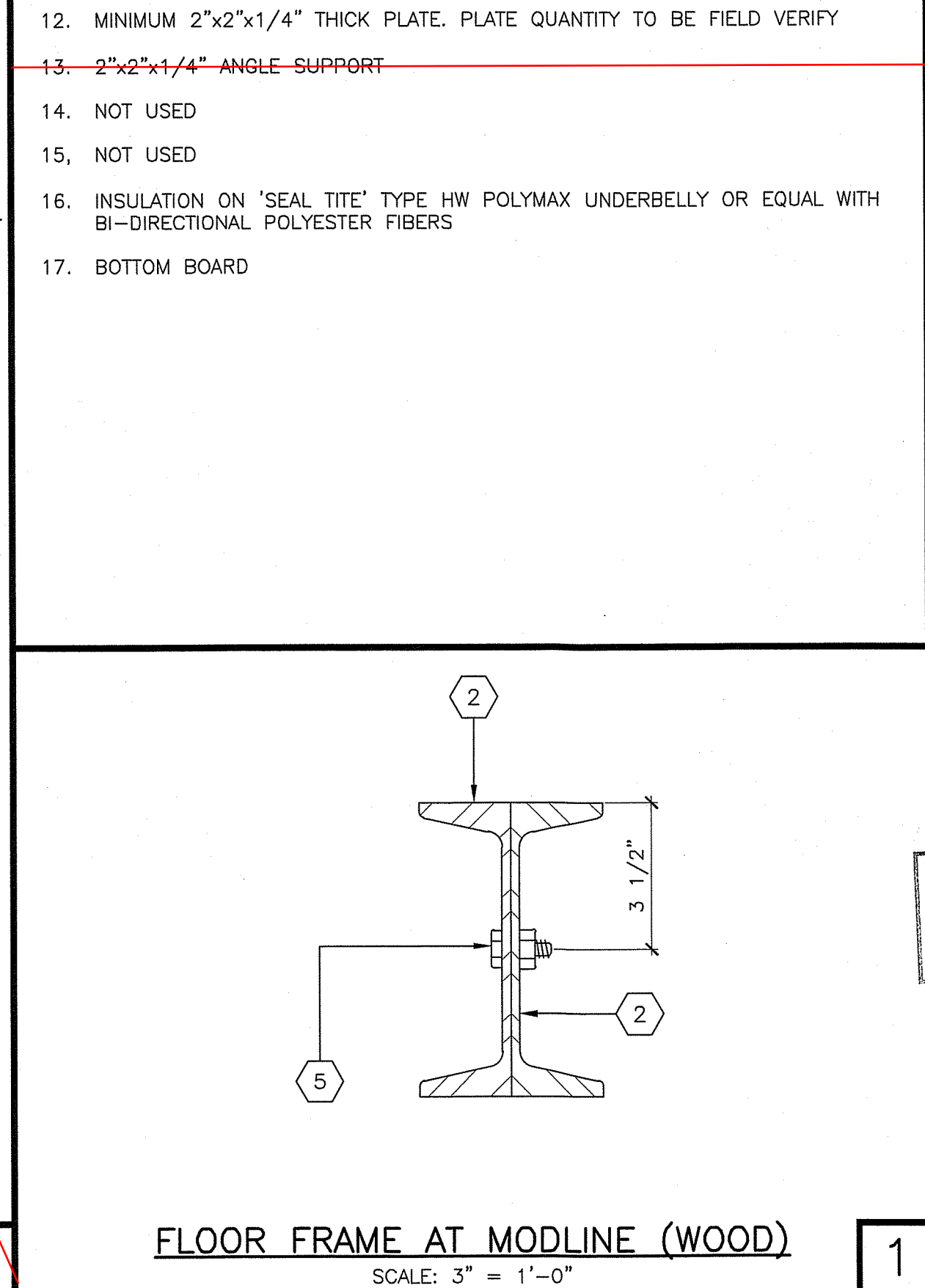
ALTERNATE MODLINE ATTACHMENT  
SCALE: 1 1/2" = 1'-0"

6



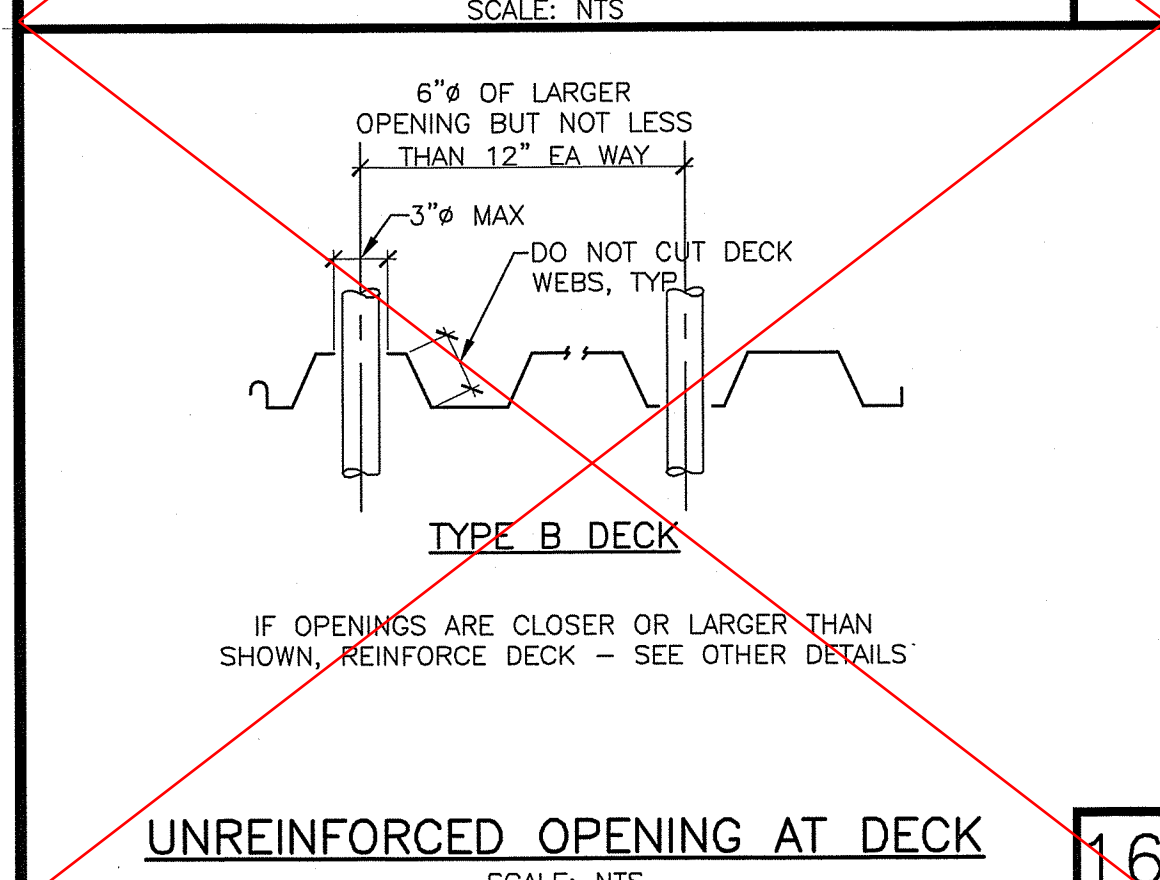
LIGHT WEIGHT CONCRETE FLOOR NOTES  
SCALE: NTS

3



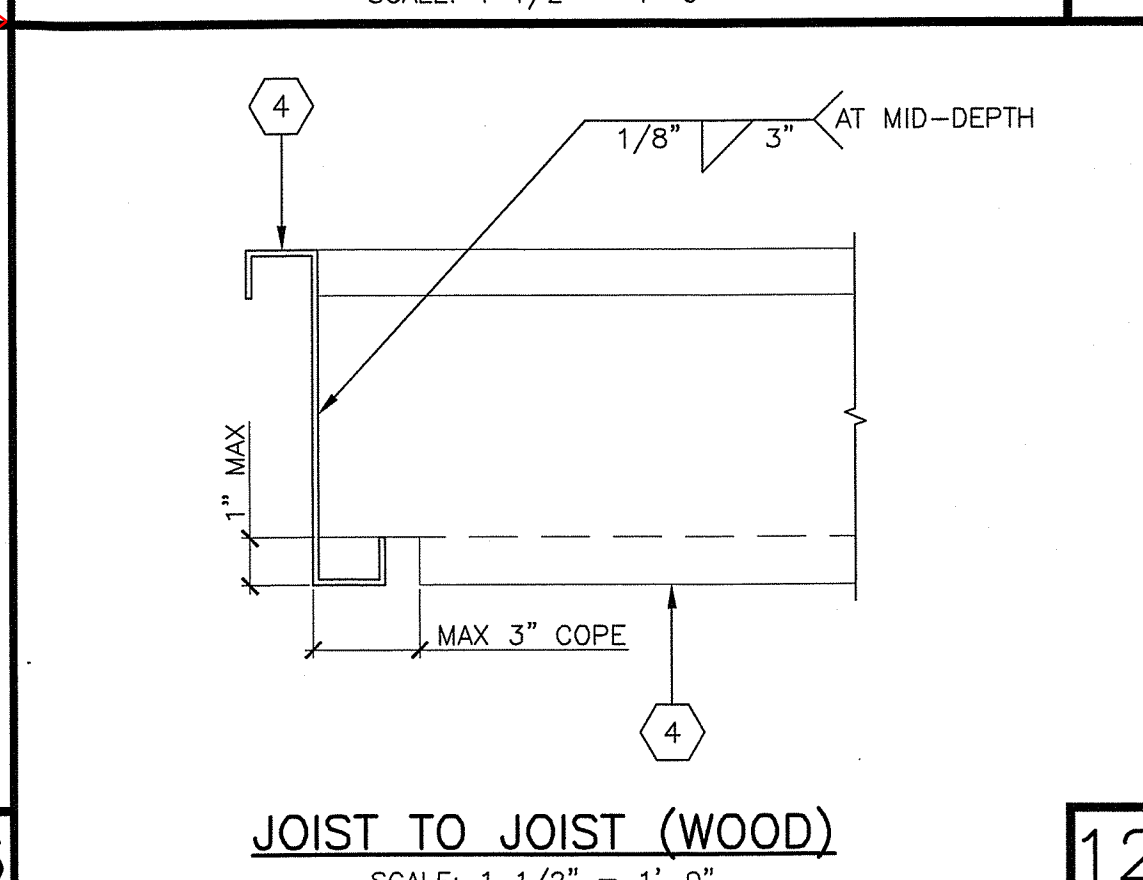
FLOOR FRAME AT MODLINE (WOOD)  
SCALE: 3" = 1'-0"

1



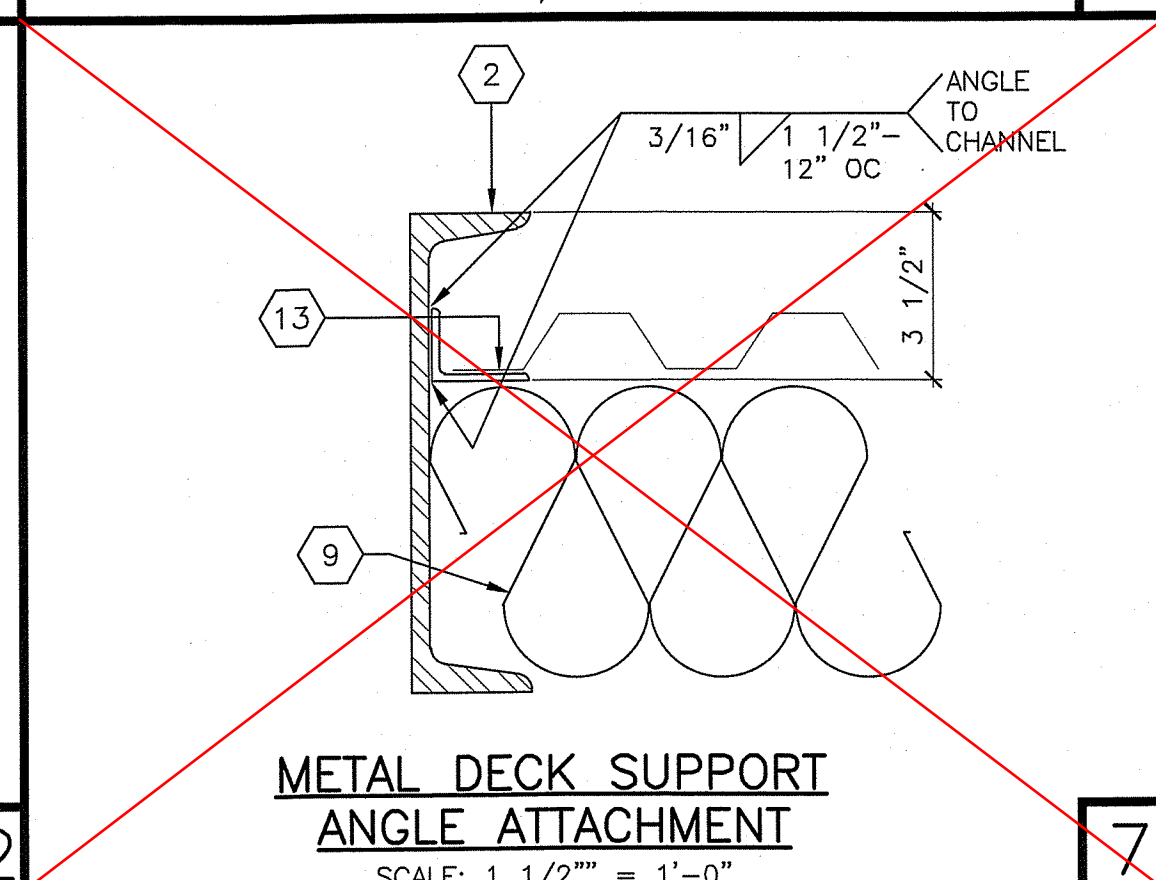
UNREINFORCED OPENING AT DECK  
SCALE: NTS

16



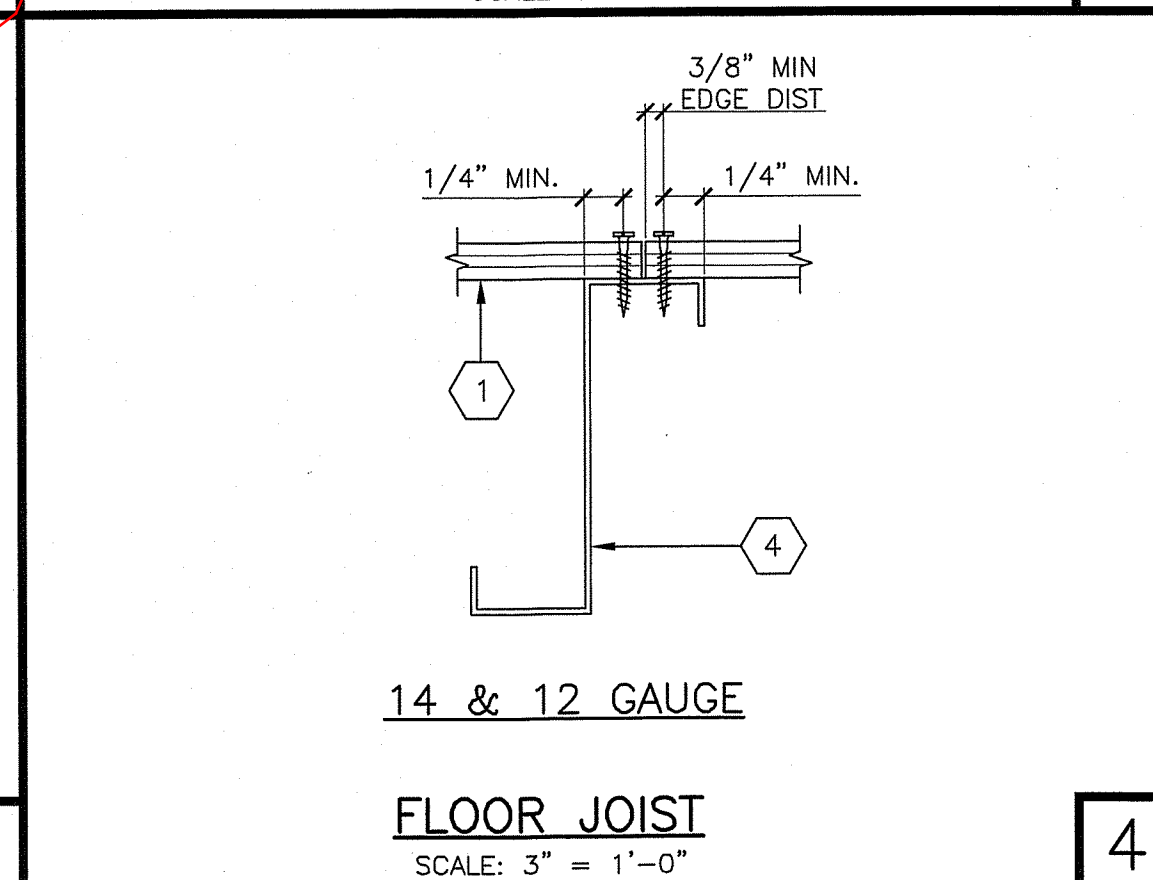
JOIST TO JOIST (WOOD)  
SCALE: 1 1/2" = 1'-0"

12



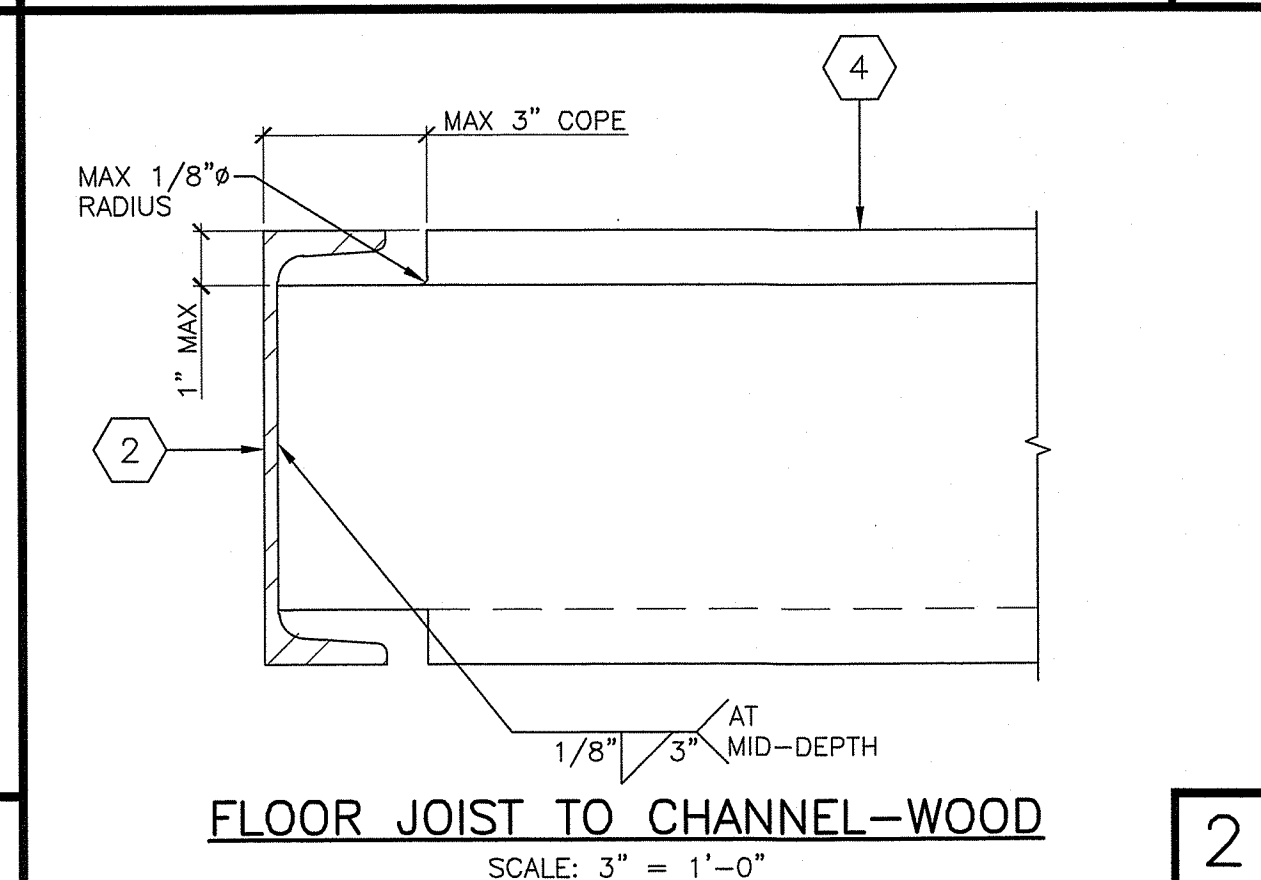
METAL DECK SUPPORT  
ANGLE ATTACHMENT  
SCALE: 1 1/2" = 1'-0"

7



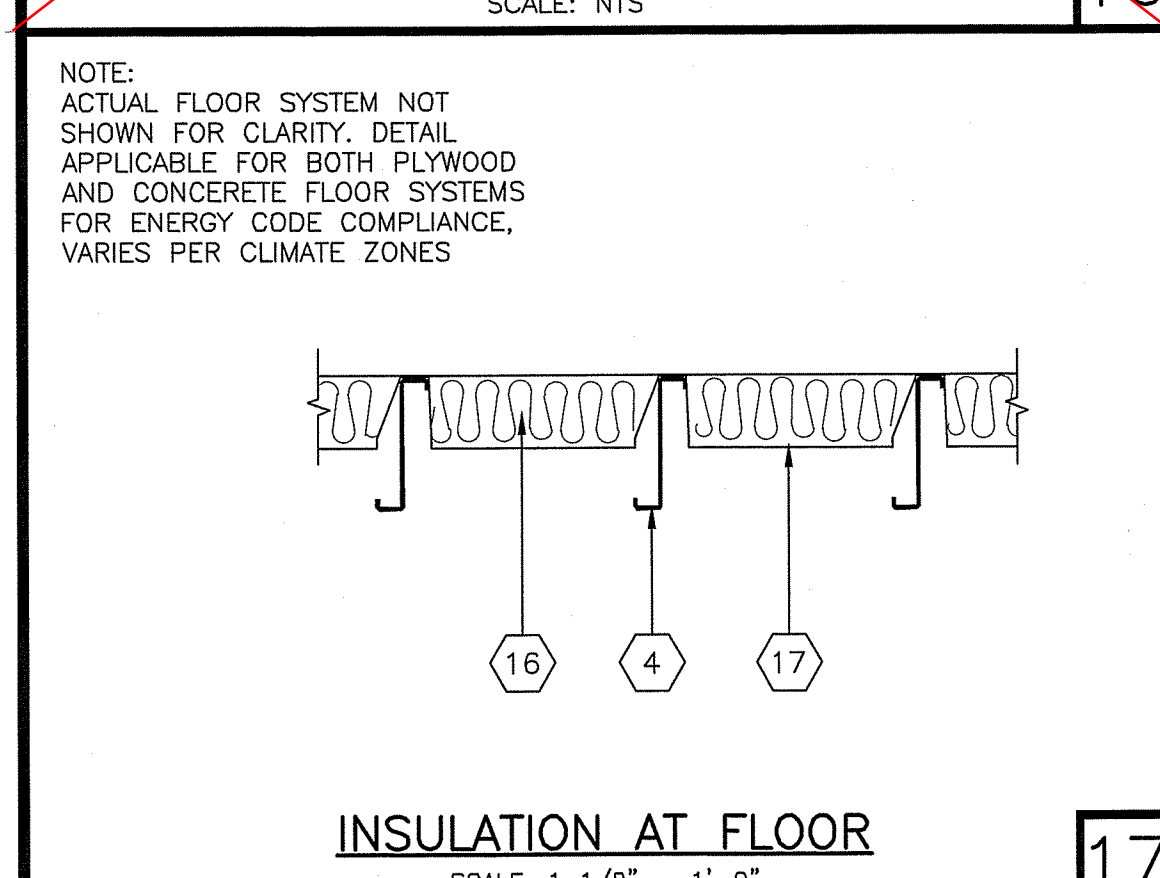
FLOOR JOIST  
SCALE: 3" = 1'-0"

4



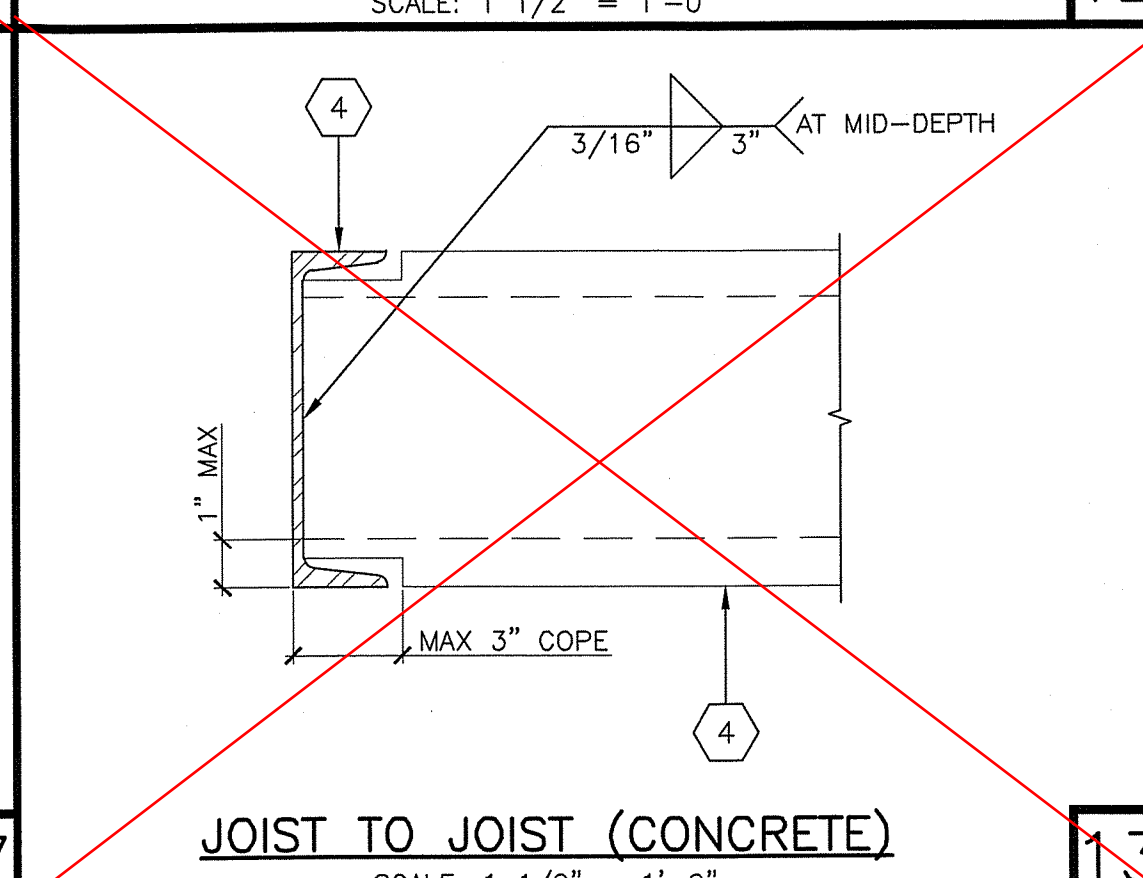
FLOOR JOIST TO CHANNEL-WOOD  
SCALE: 3" = 1'-0"

2



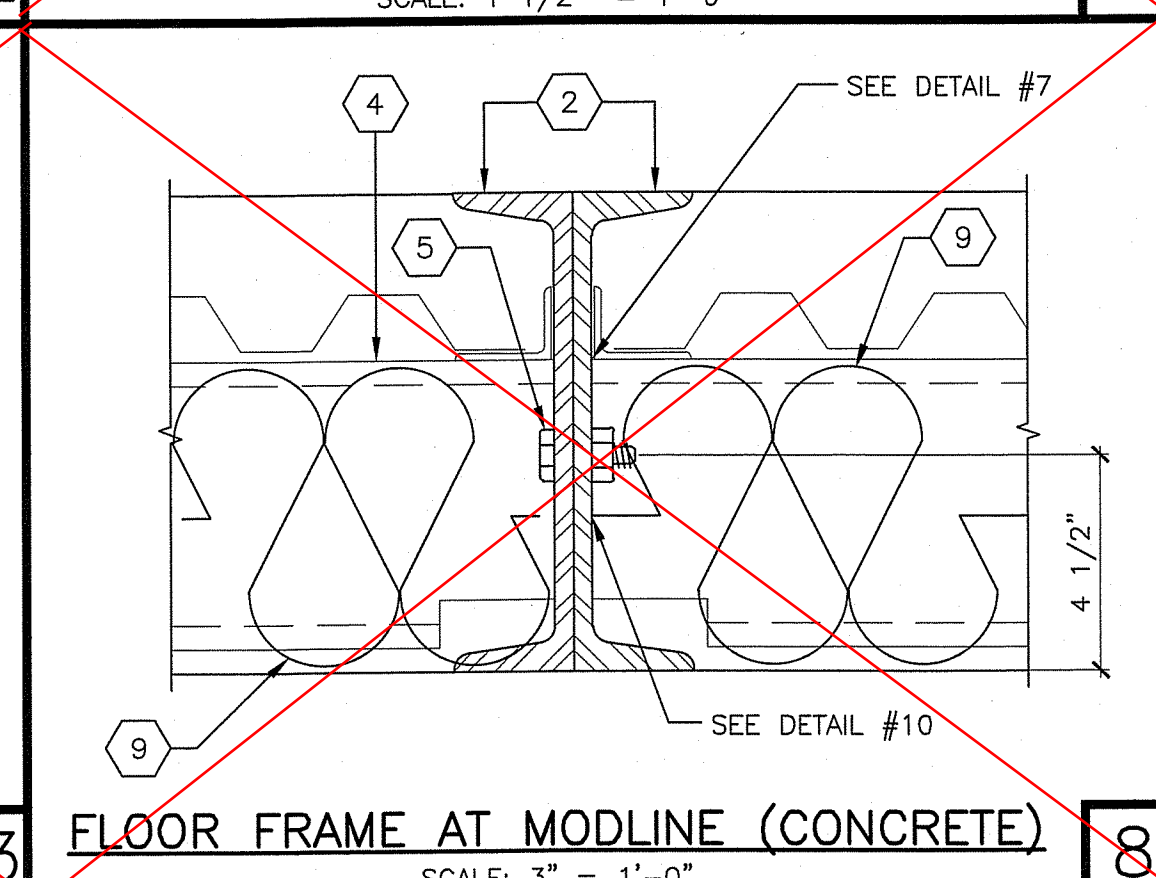
INSULATION AT FLOOR  
SCALE: 1 1/2" = 1'-0"

17



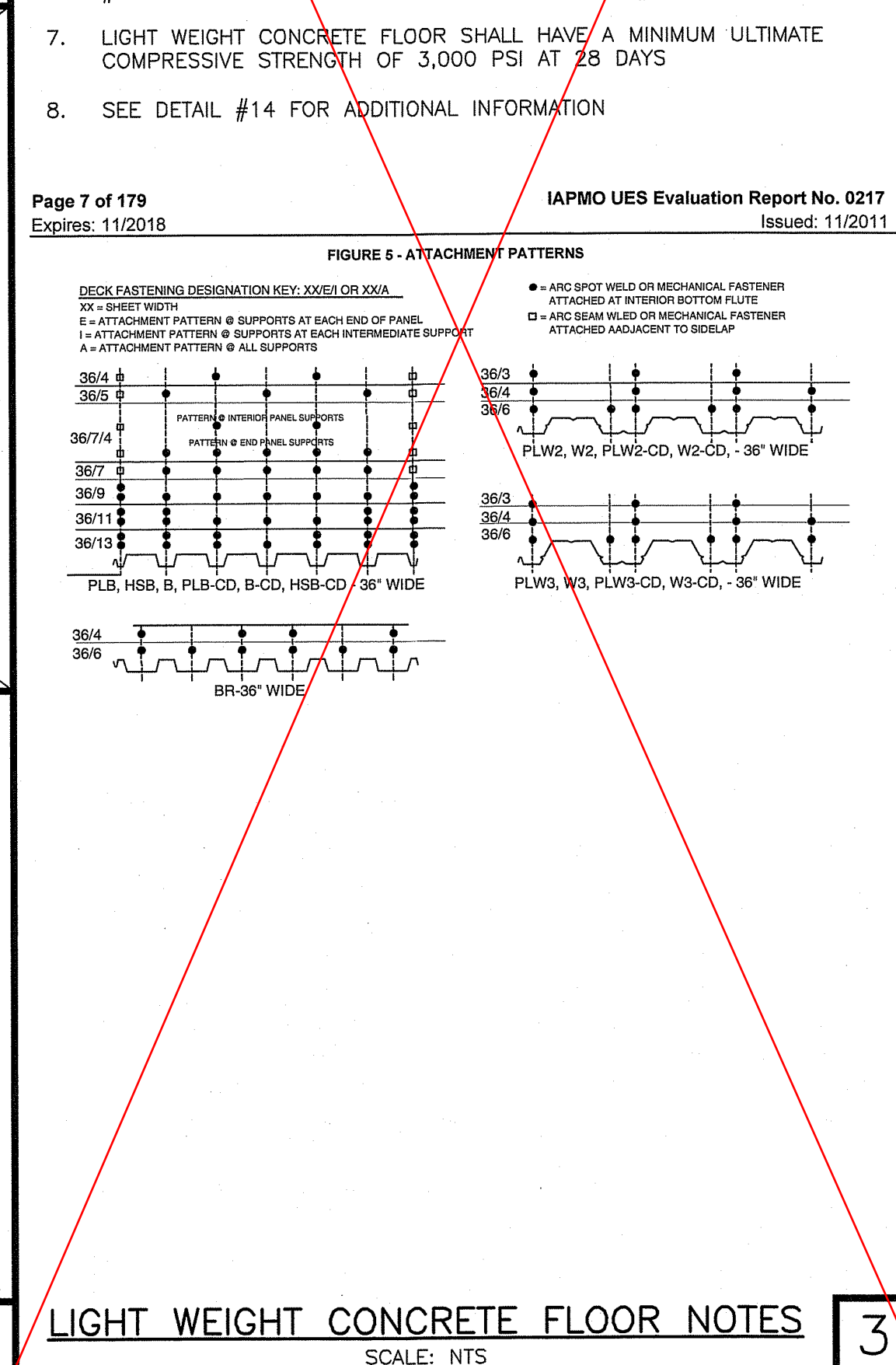
JOIST TO JOIST (CONCRETE)  
SCALE: 1 1/2" = 1'-0"

13



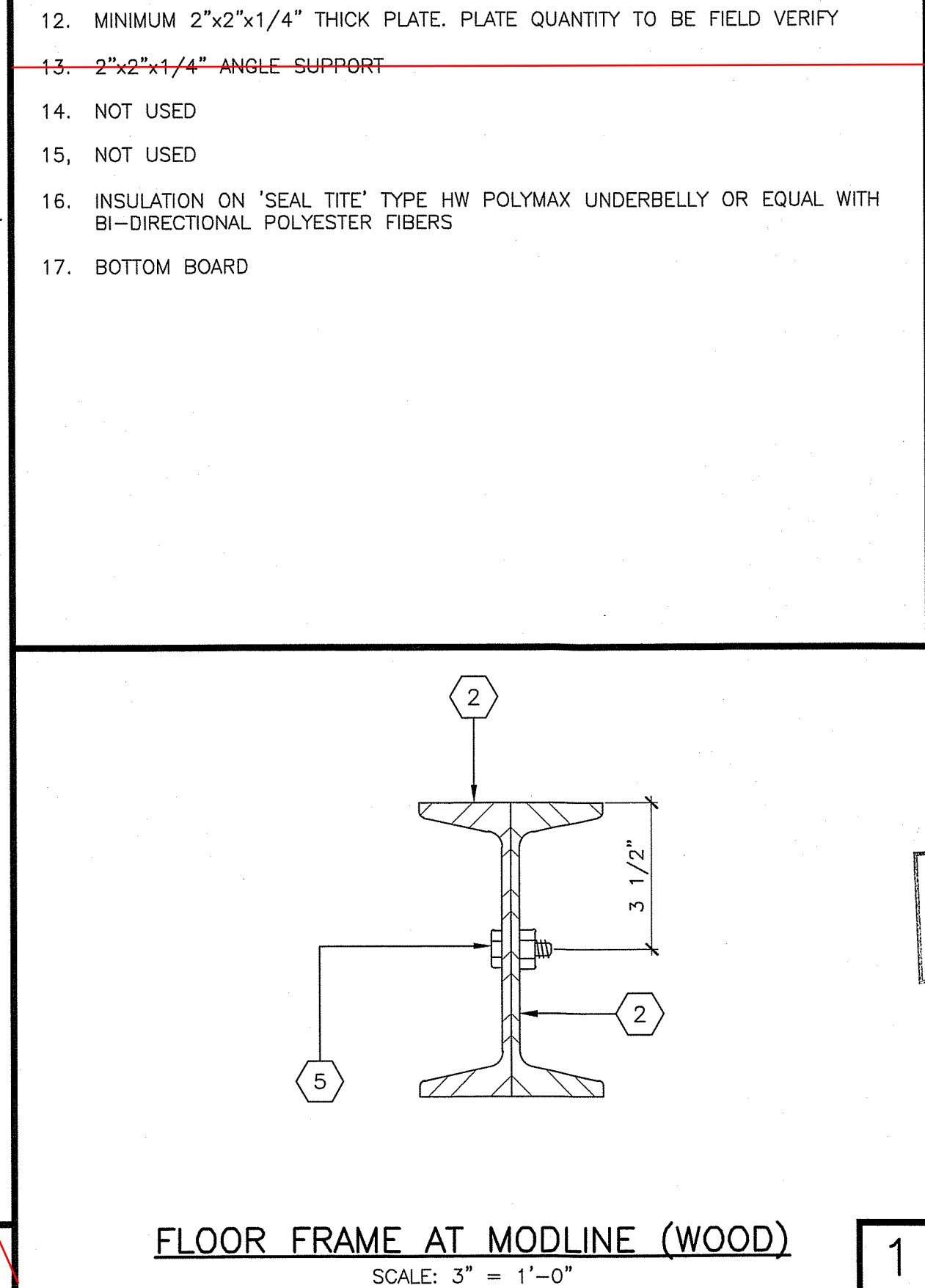
FLOOR FRAME AT MODLINE (CONCRETE)  
SCALE: 3" = 1'-0"

8



MINIMUM DECK CONNECTION ALL SUPPORTS:  
1/2" Ø EFFECTIVE ARC SPOT OR ARC SEAM (PUDDLE) WELDS AT ALL STEEL SUPPORTS. PUDDLE WELDS AT 12" OC PERPENDICULAR TO DECK FRAMING. 24" OC AT FRAMING PARALLEL TO DECK FRAMING. PROVIDE BUTT PUNCH AT 24" OC @ ALL DECK SEAMS

- NOTES:
- DECK LAYOUT SHALL PROVIDE ALL DECK SHEETS OF SUFFICIENT LENGTH TO EXTEND CONTINUOUSLY OVER AT LEAST 3 SPANS
  - ENDS OF ADJOINING DECK SHEETS SHALL BE LAPPED 2"
  - NO SHORING IS REQUIRED FOR DECK, UNO
  - METAL B-DECK SHALL BE VEROO MANUFACTURING CO. PER IAPMO PER-217 OR APPROVED EQUAL. DECK TO BE ASTM A653 SS DESIGNATION GRADE 50 MINIMUM.
  - LIGHT WEIGHT CONCRETE FLOOR SHALL BE REINFORCED WITH 6x6 W1.4xW1.4 WWF PLACED AT MID-DEPTH OF THE FLOOR OVER THE TOP FLUTE OF THE METAL DECK. 1 1/2" x 20 GA B-DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE FILL (2" OVER DECK FLUTES)
  - ALTERNATE ATTACHMENT OF B-DECK TO FLOOR JOIST: 'HILTI' X-ENP-19, L15 FASTENER OR EQUAL. 7 PINS PER SHEET TO PERPENDICULAR SUPPORTS PER ICC REPORT #ESR-2197. VSC2 AT 12" OC MAX. SEE DETAIL #14
  - LIGHT WEIGHT CONCRETE FLOOR SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS
  - SEE DETAIL #14 FOR ADDITIONAL INFORMATION



KEY NOTES

- PLYWOOD FLOOR SHEATHING
- PERIMETER CHANNEL (SEE STRUCTURAL FLOOR FRAMING PLANS)
- NOT USED
- FLOOR JOIST AND/OR BLOCK (SEE STRUCTURAL FLOOR FRAMING PLANS)
- 5/8" MACHINE BOLT. SEE SHEET S0.1 OR S0.2 FOR SPACING
- NOT USED
- NOT USED
- 4"x6"x1/4" PLATE AT 8" CHANNEL SPLICE. 4"x8"x1/4" PLATE AT 10" CHANNEL SPLICE
- R-11 INSULATION. SEE DETAIL 17 FOR SIMILAR ATTACHMENT U.N.O
- METAL DECK FLOOR (SEE DETAIL 14)
- NOT USED
- MINIMUM 2"x2"x1/4" THICK PLATE. PLATE QUANTITY TO BE FIELD VERIFY
- 2"x2"x1/4" ANGLE SUPPORT
- NOT USED
- NOT USED
- INSULATION ON 'SEAL TITE' TYPE HW POLYMAX UNDERBELLY OR EQUAL WITH BI-DIRECTIONAL POLYESTER FIBERS
- BOTTOM BOARD

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

GLOBAL MODULAR  
Incorporated  
Aurora Modtech  
DESIGNS  
MODULAR STRUCTURES  
INTERNATIONAL, INC.  
DESIGNS  
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHOWHILLA, CA 93810  
PHONE: (559) 685-5800  
FAX: (559) 685-5700  
WEBSITE: WWW.GOV.NET

SOUTHERN CALIFORNIA DIVISION  
1660 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 886-3633  
FAX: (951) 886-3662  
WEBSITE: WWW.GOV.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:  
FLOOR FRAMING DETAILS  
PLYWOOD & CONCRETE

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

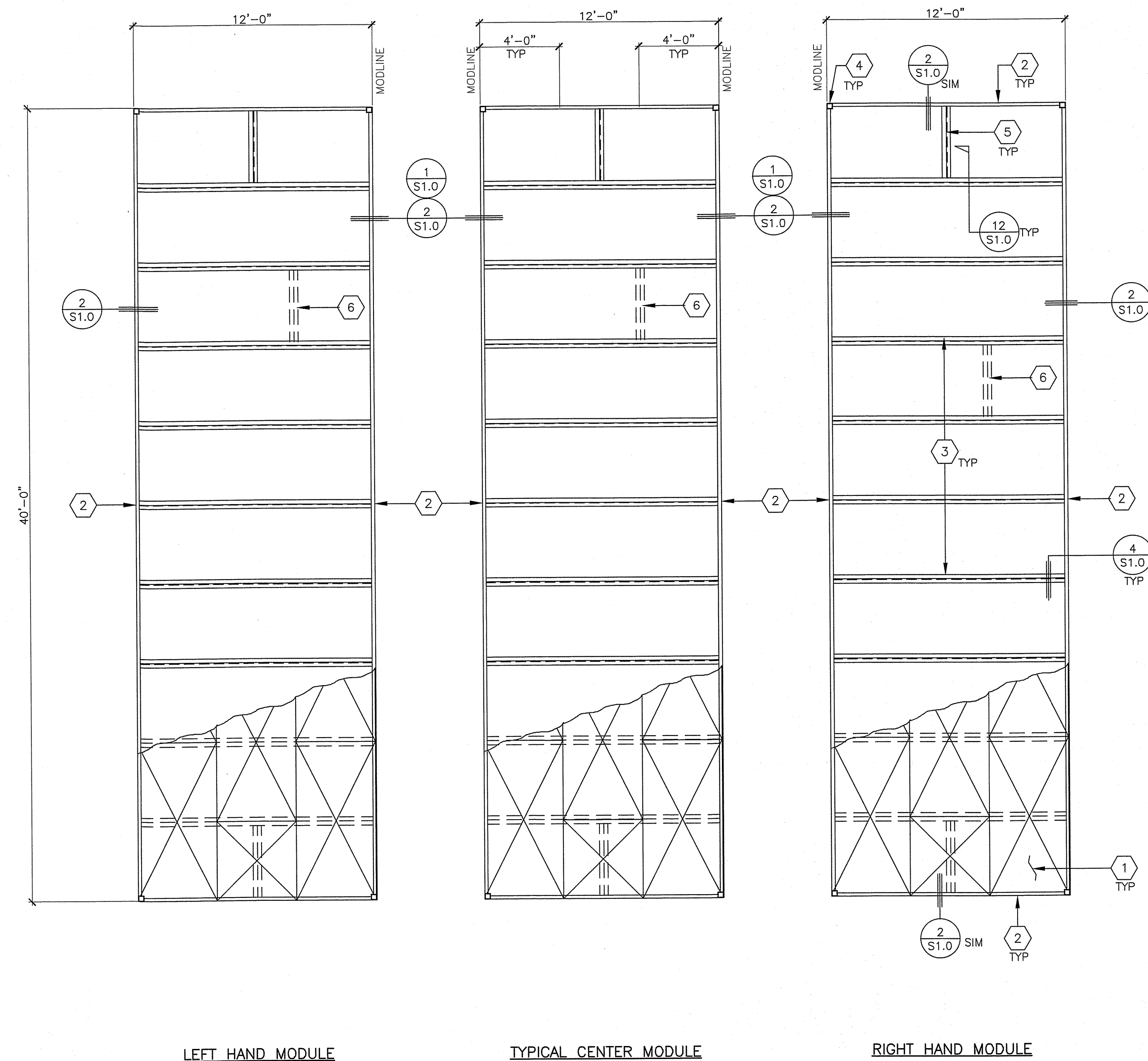
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # PC-172  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2018

REVISIONS

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER

S1.0





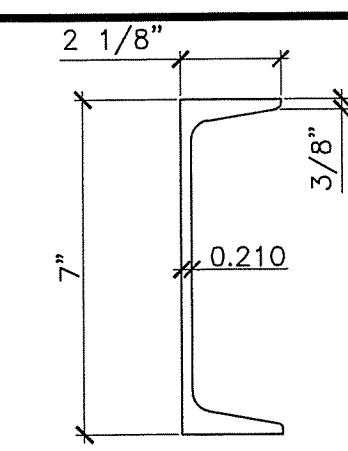
**FLOOR FRAMING PLAN**  
SCALE: 1/4" = 1'-0"

## KEY NOTES

- PLYWOOD FLOOR SHEATHING: 1 1/8" APA RATED OR EQUAL PS 1-09 T&G EDGES, 48" SPAN RATING; ATTACH TO STEEL FRAMING WITH MIN #10-24x1 3/4" SELF TAP SCREW @ 6" OC BOUNDARY & EDGES AND 12" OC FIELD. PROVIDE FIELD NAILING @ 6" OC WHERE FLOOR JOISTS ARE AT 48" OC. MIN 24" SHEET DIMENSION
- C-7" x 9.8 LB PERIMETER FRAME
- FLOOR JOIST MEMBER (FLOOR JOIST ARE SHOWN AT 48" OC AS AN EXAMPLE ONLY SEE SCHEDULE BELOW FOR SPACING)
- STEEL STUB COLUMN
- JOIST BLOCK MEMBER AT 1ST BAY (SAME MEMBER AS TYP FLOOR JOIST). SECURE PLYWOOD TO THIS MEMBER AT 6" OC MAX
- JOIST BLOCKING ONLY WHERE INTERIOR WALL(S) FALLS PARALLEL TO FLOOR JOISTS. PLACE BLOCKING @ MAX 48".

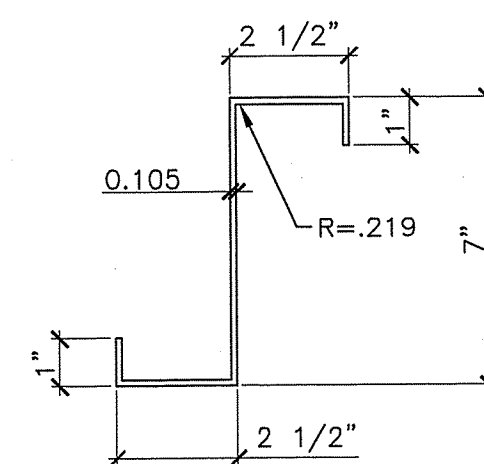
STANDARD FLOOR JOIST SCHEDULE (14 GA)	
FLOOR LOAD	SPACING
100	16" OC

ALTERNATE FLOOR JOIST SCHEDULE (12 GA)	
FLOOR LOAD	SPACING
100	24" OC



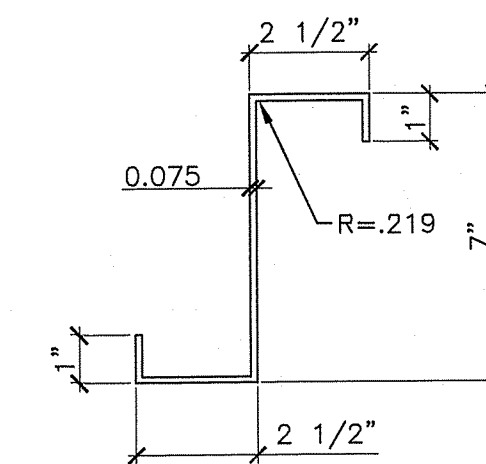
Ix= 21.3  
Sx= 6.08  
Fy= 36,000 KSI

**FLOOR BEAM**  
SCALE: 3" = 1'-0"



Ix= 10.62  
Sx= 3.034  
Fy= 40,000 KSI

**12 GA FLOOR JOIST/BLOCKING**  
SCALE: 3" = 1'-0"



Ix= 7.731  
Sx= 2.209  
Fy= 40,000 KSI

**14 GA FLOOR JOIST/BLOCKING**  
SCALE: 3" = 1'-0"

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
Incorporated  
**AURORA MODTECH**  
DESIGNS  
MODULAR STRUCTURES  
INTERNATIONAL, INC.

CONTRACTORS LICENSE #837357  
NORTHERN CALIFORNIA DIVISON  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 665-5800  
FAX: (559) 665-5700  
WEBSITE: WWW.GDM.NET  
SOUTHERN CALIFORNIA DIVISON  
1660 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3662  
WEBSITE: WWW.GDM.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

**FLOOR FRAMING PLAN  
PLYWOOD**

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

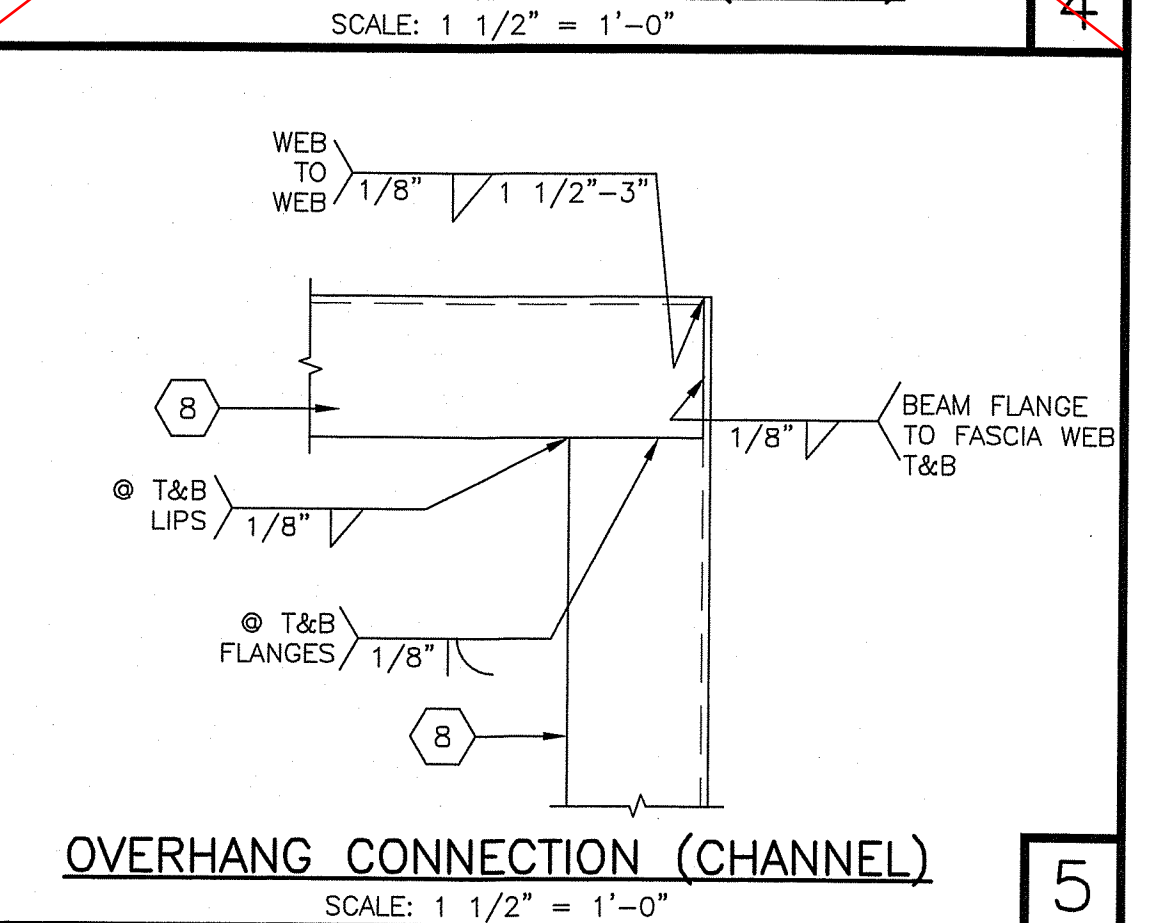
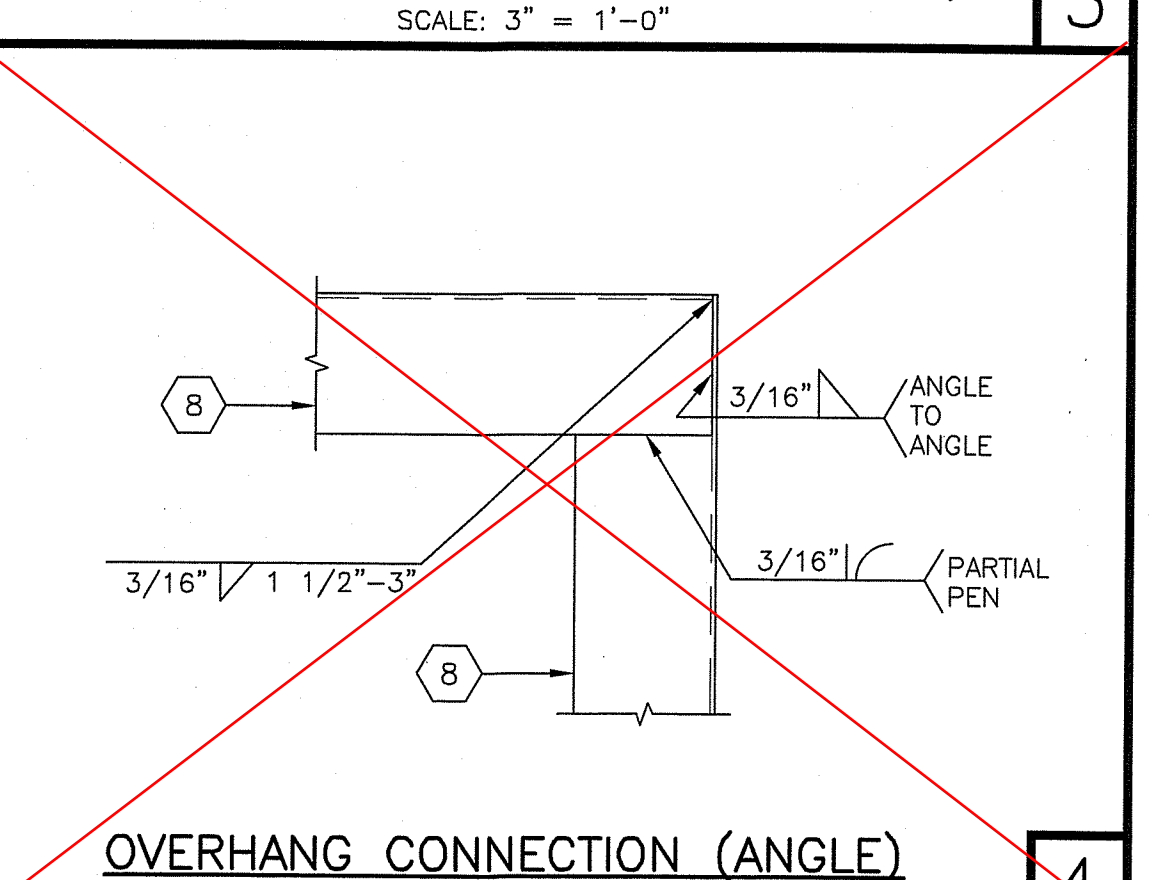
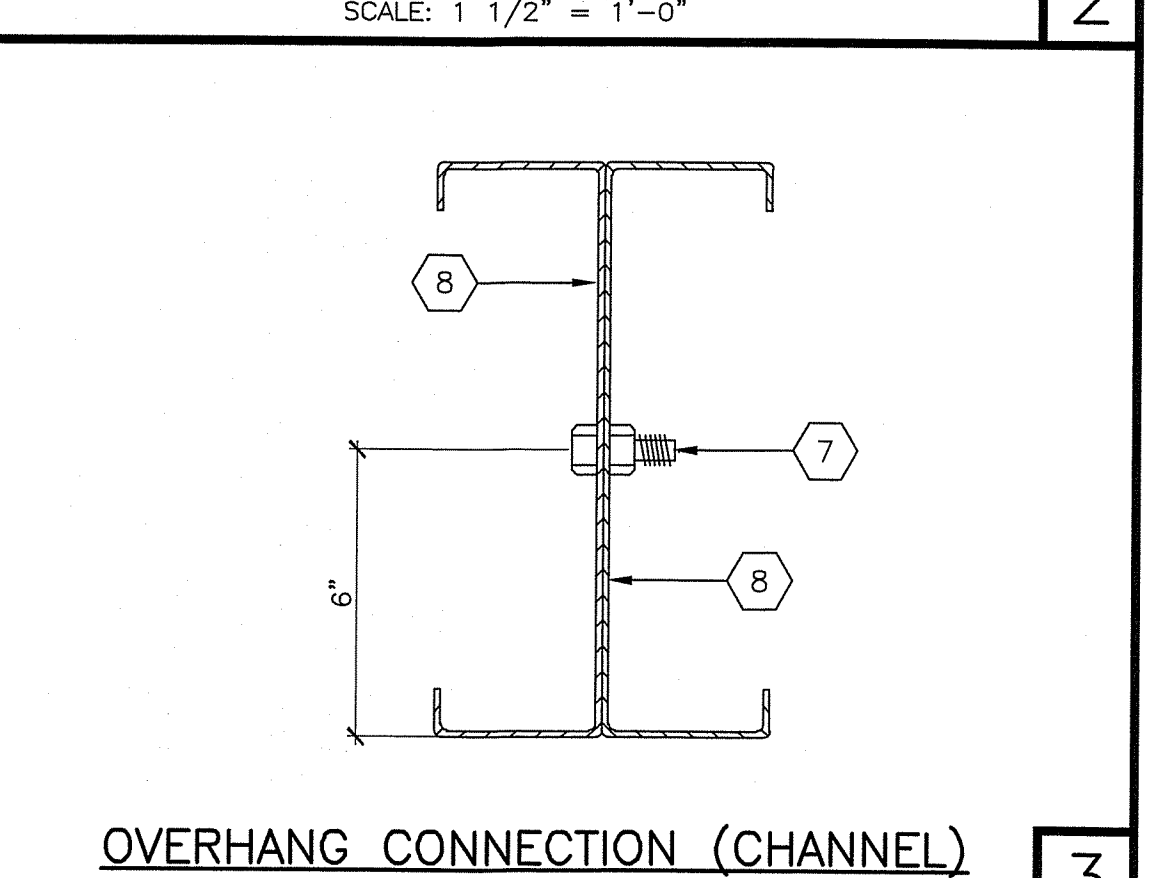
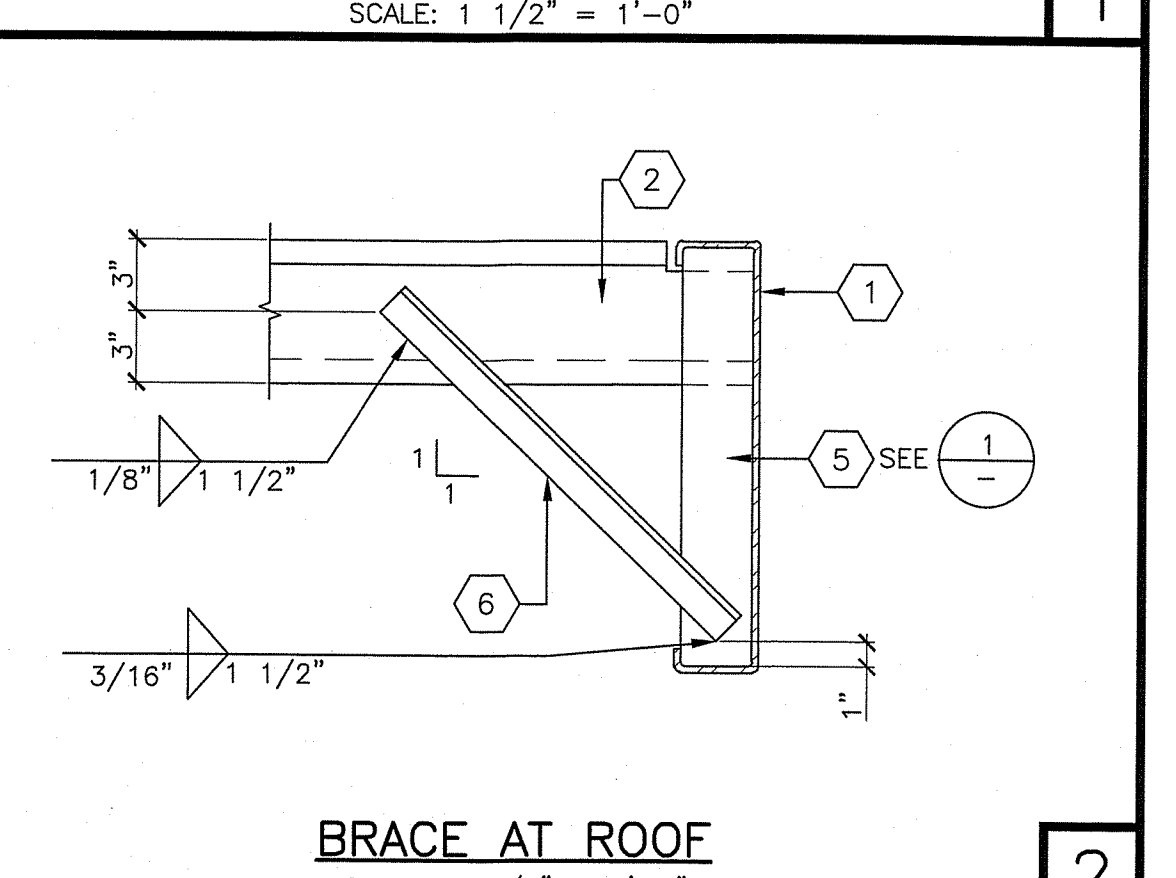
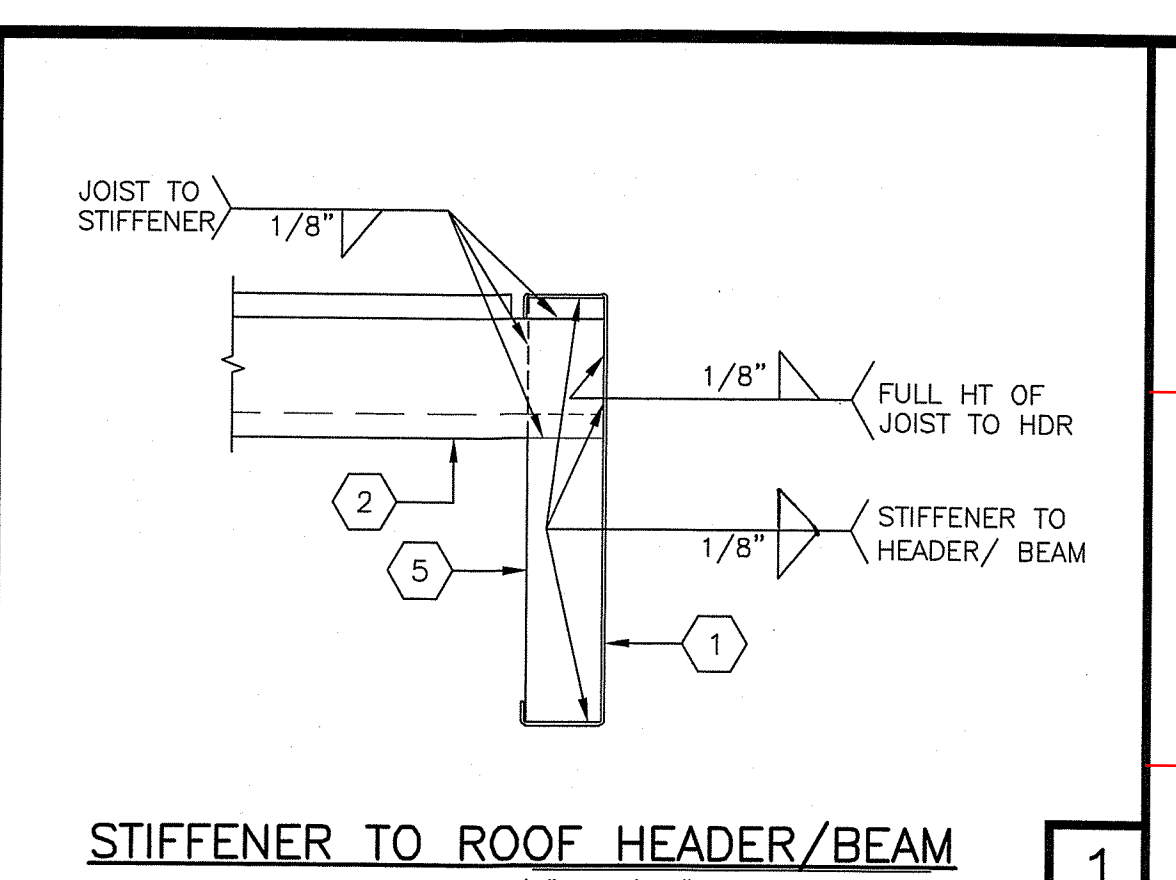
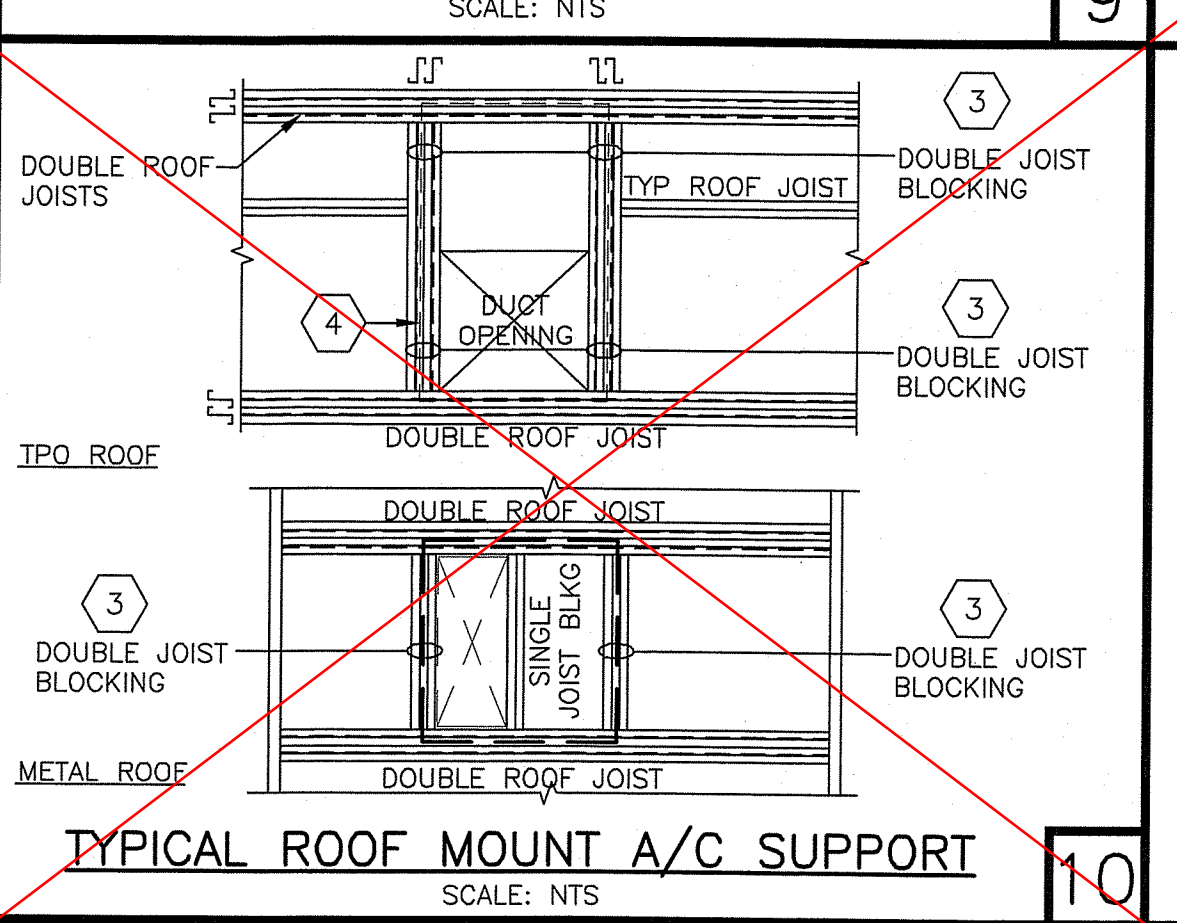
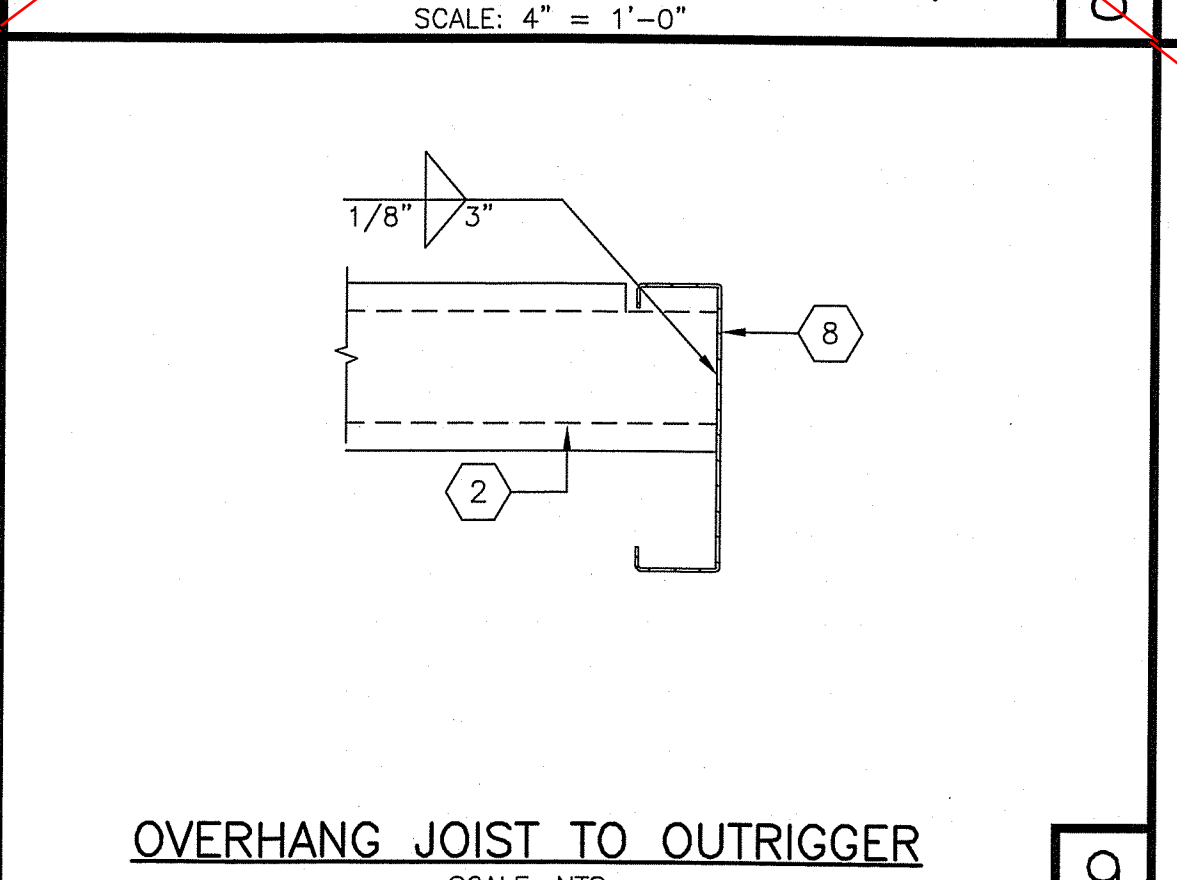
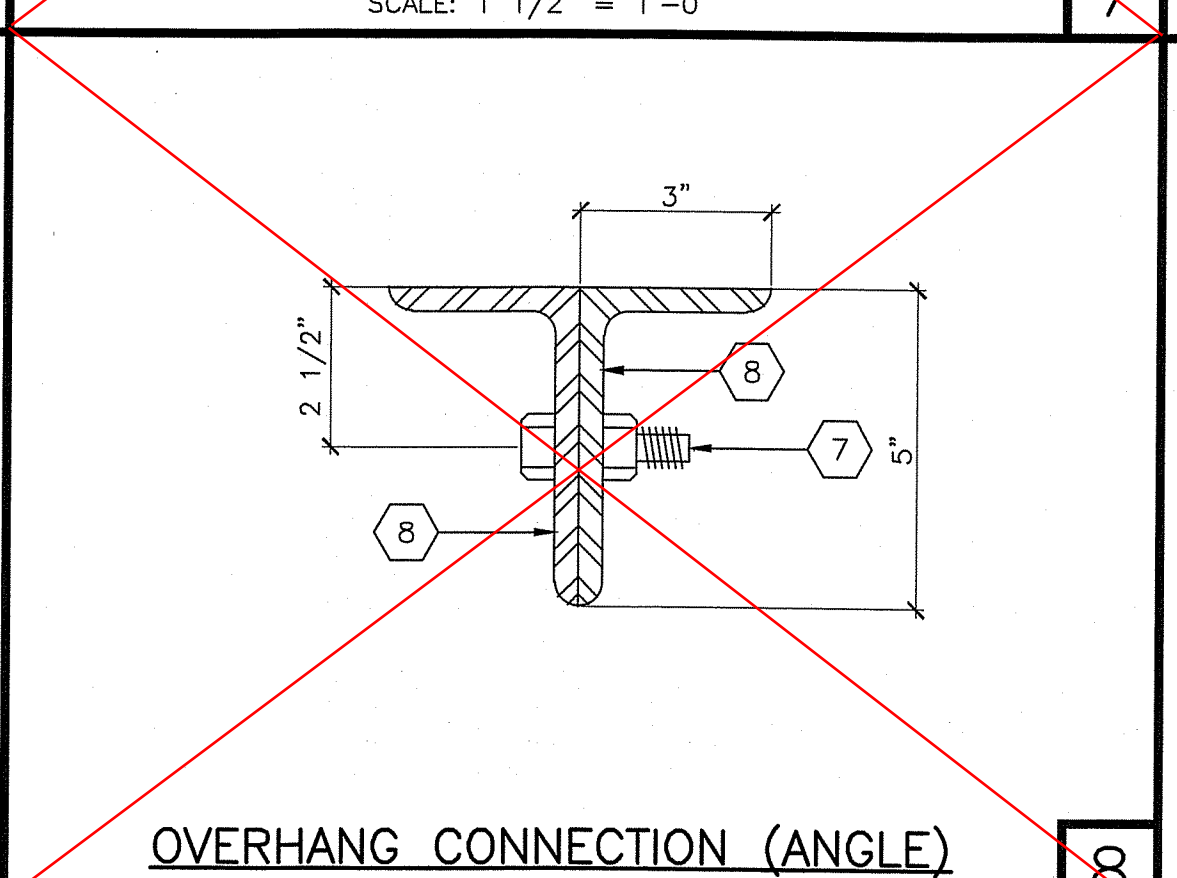
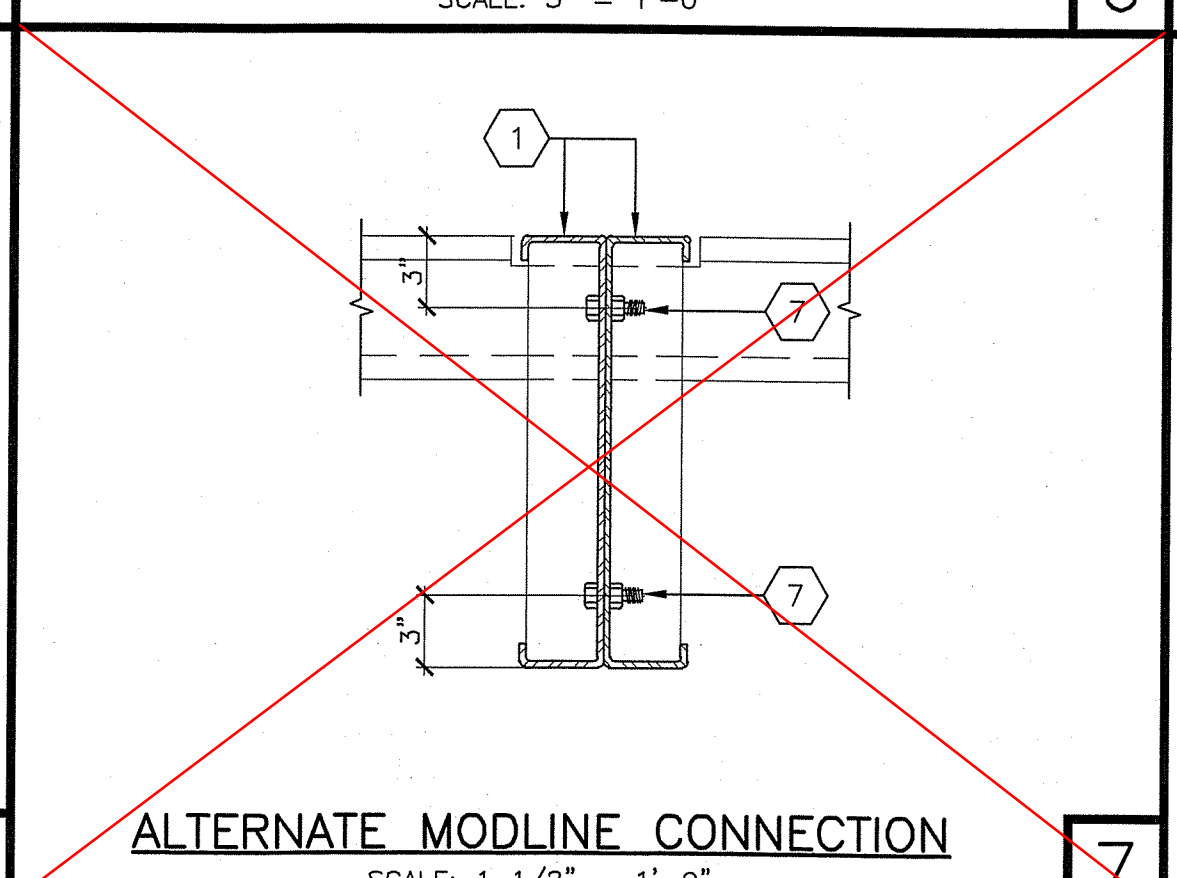
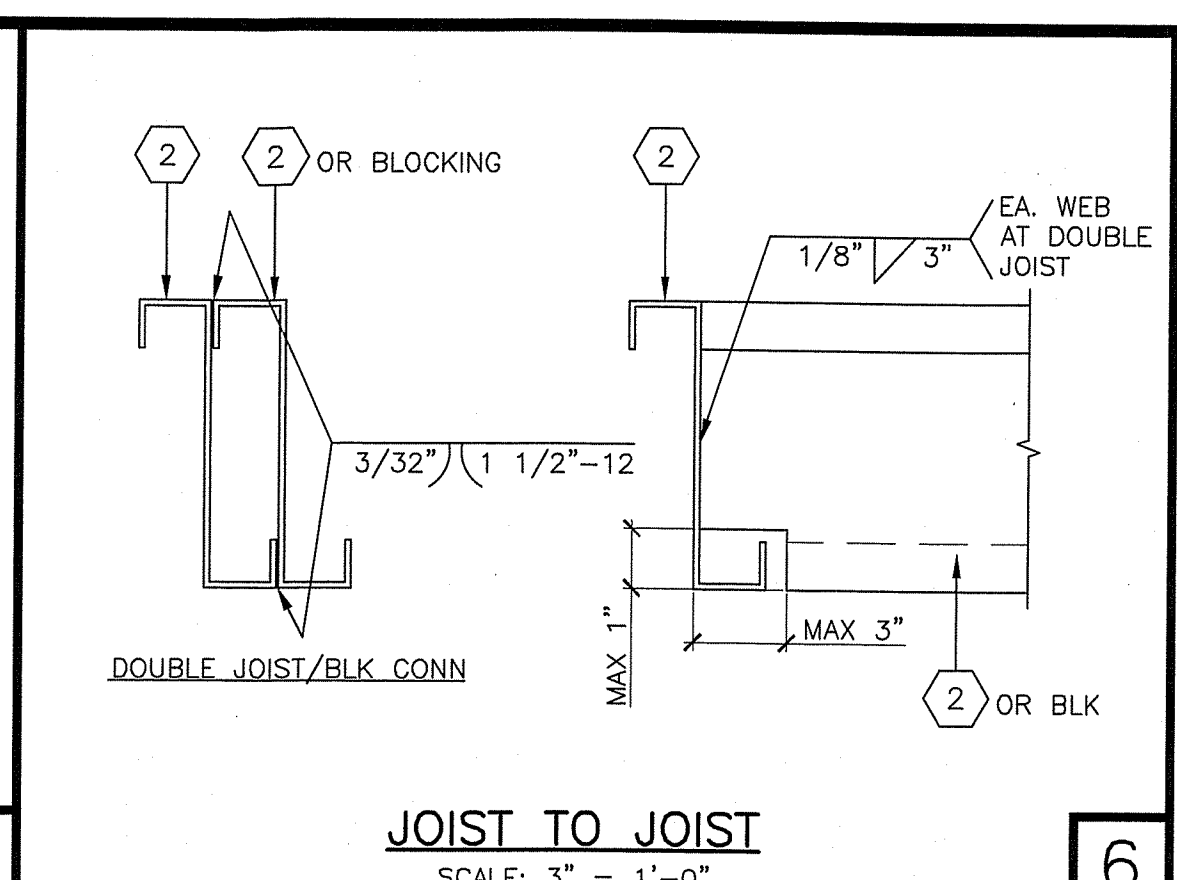
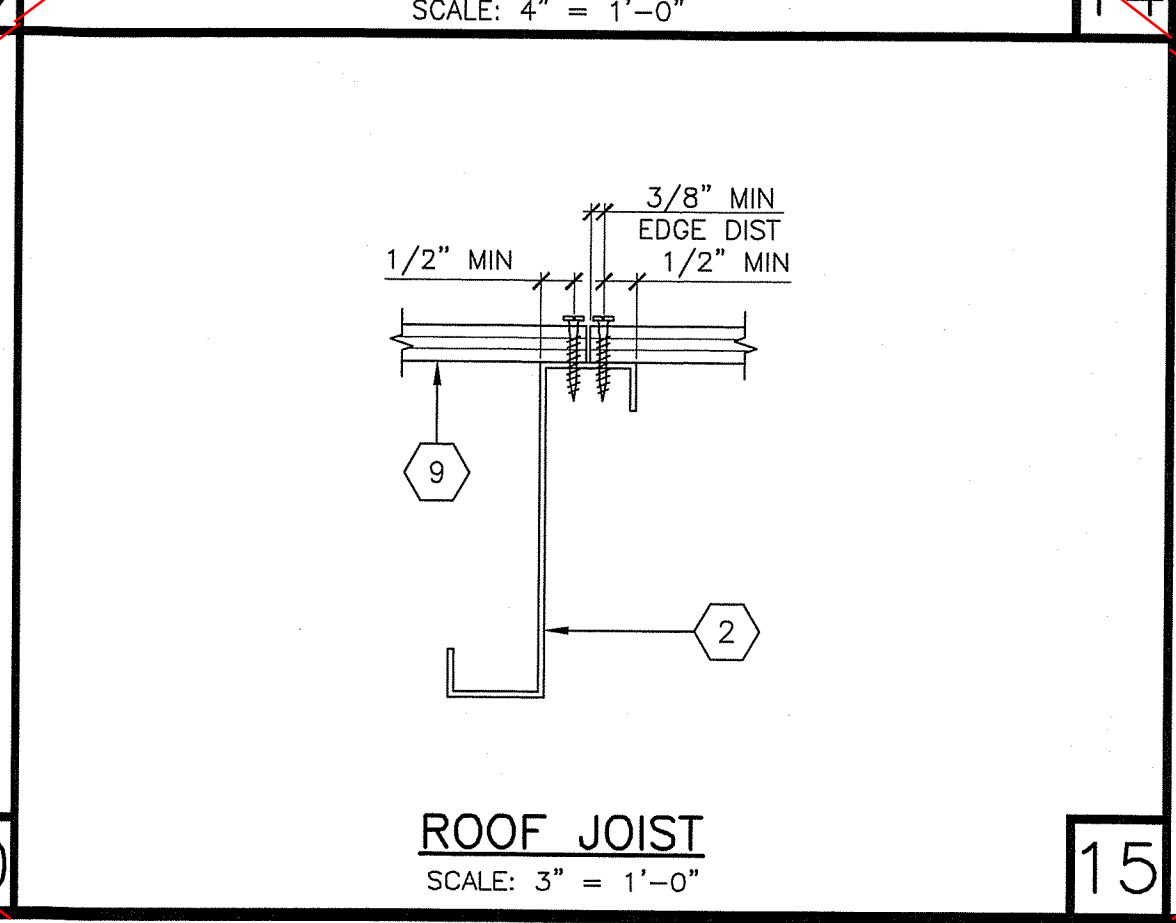
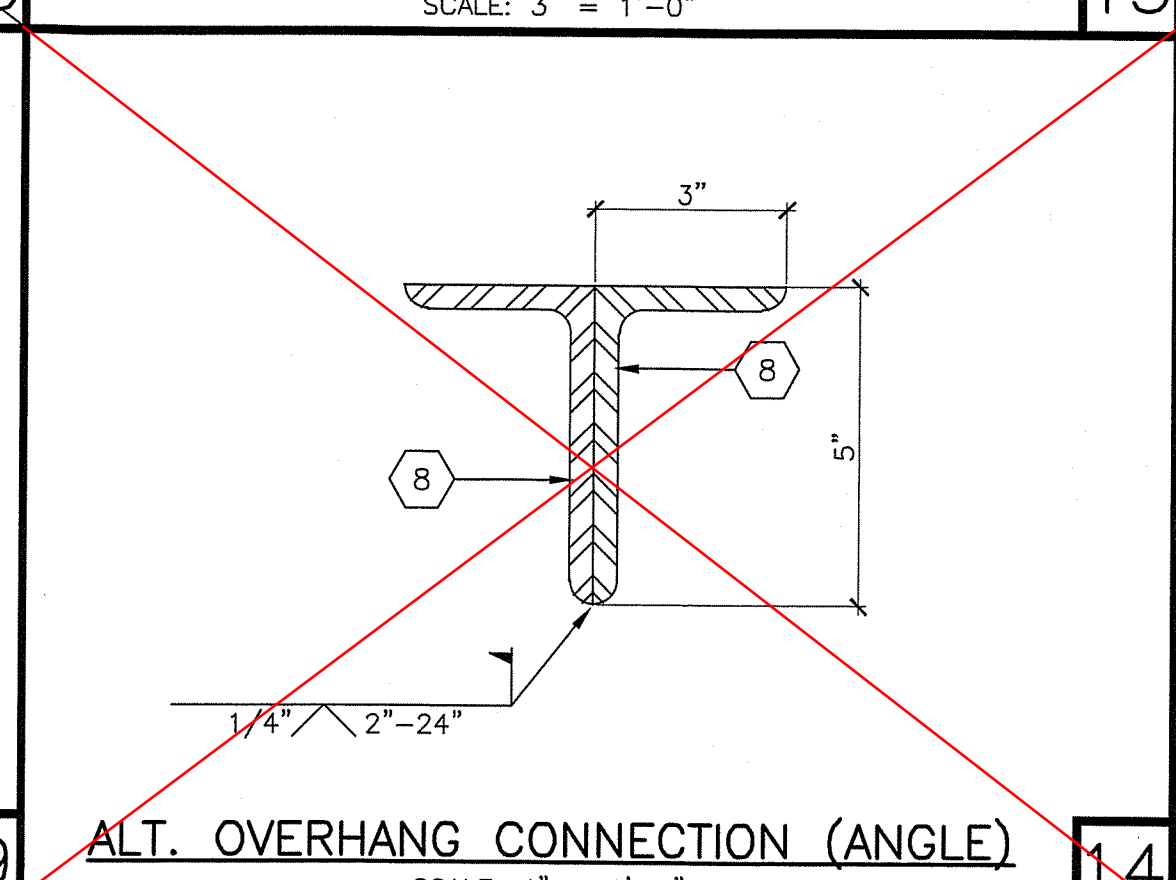
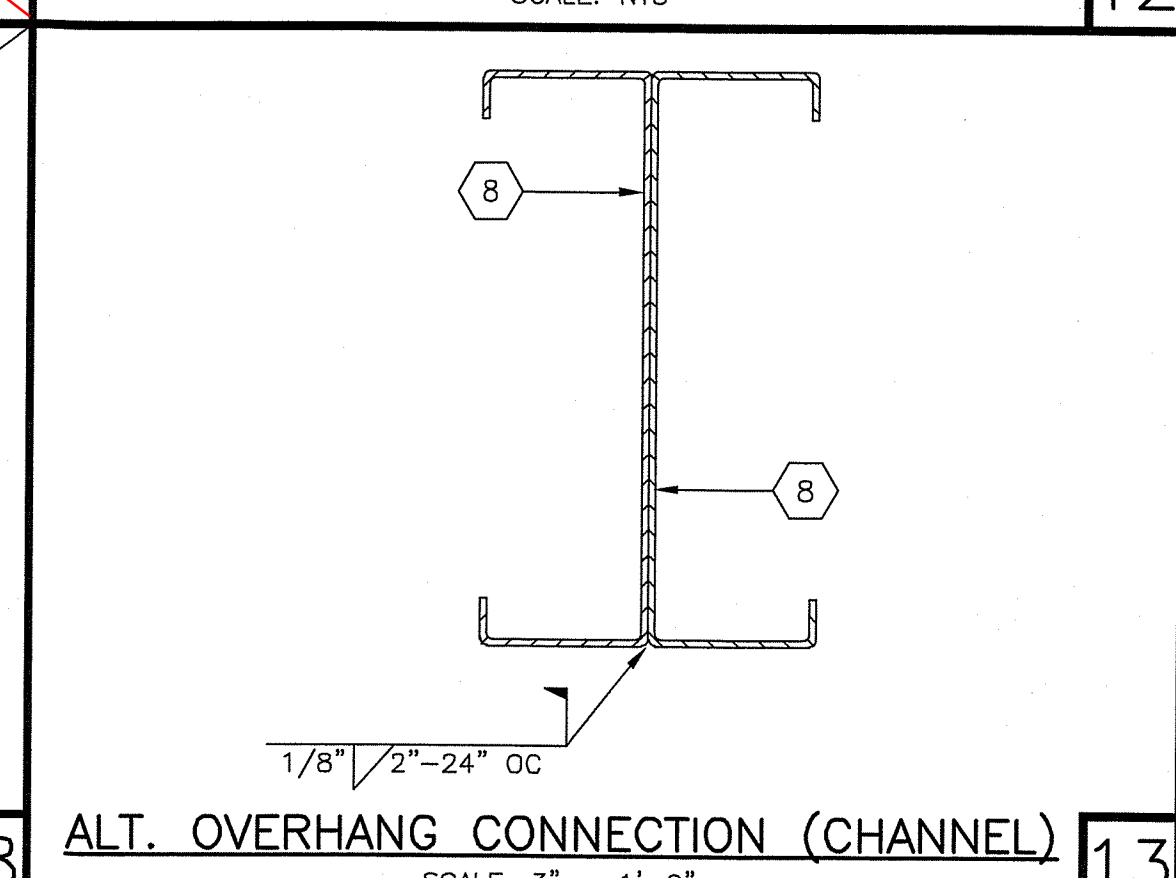
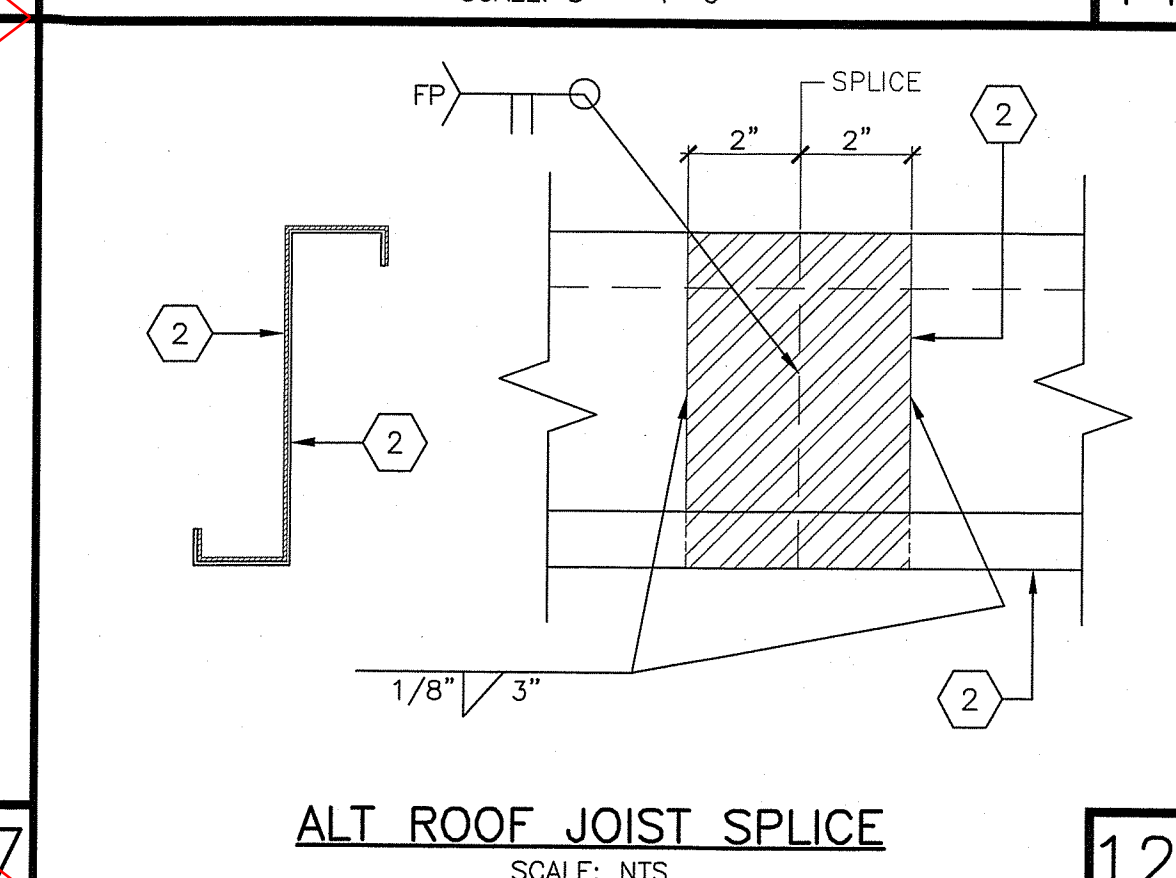
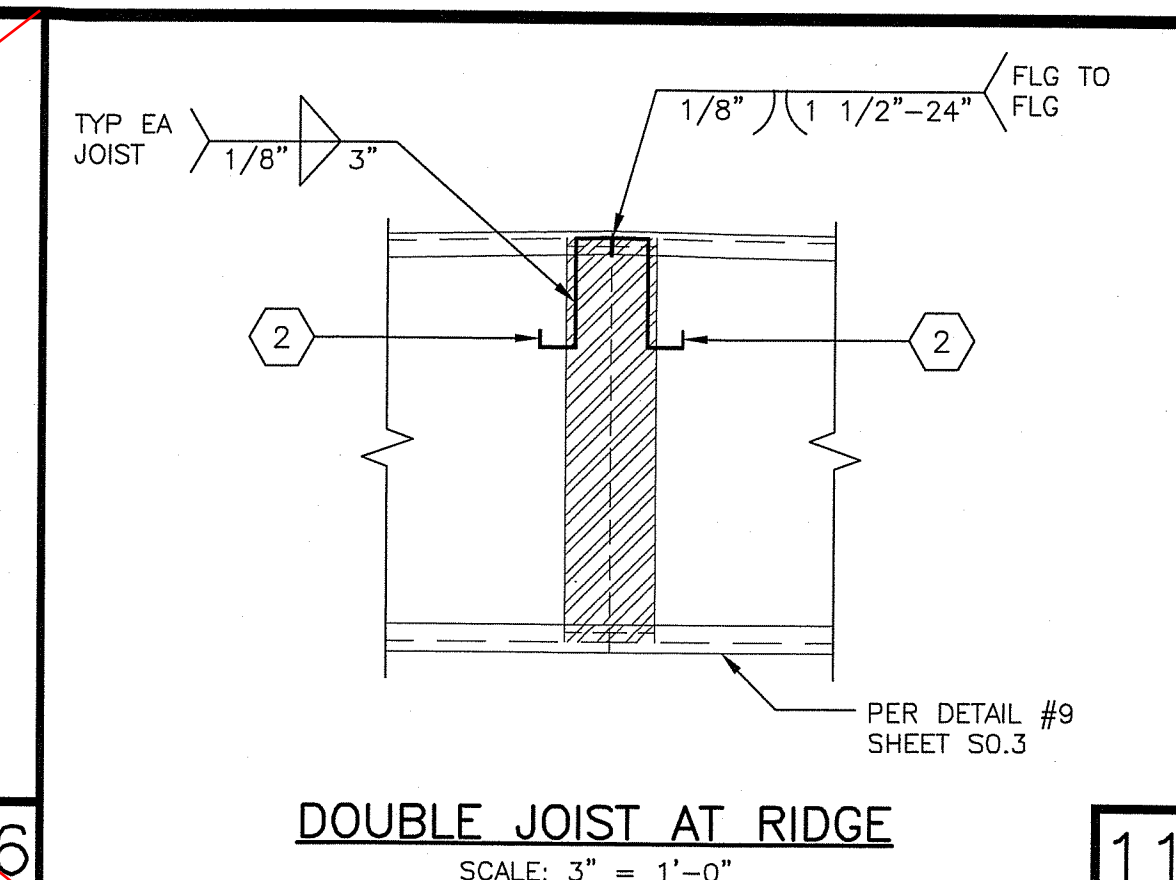
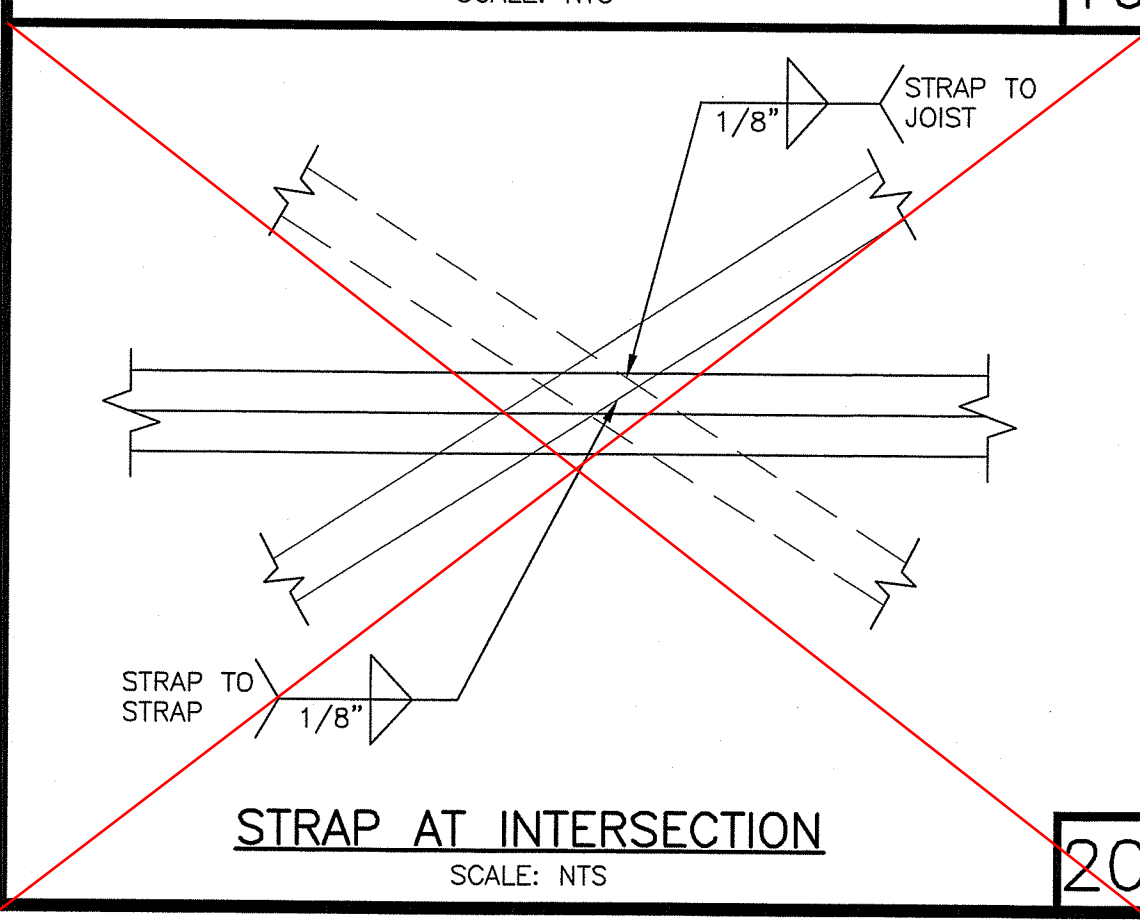
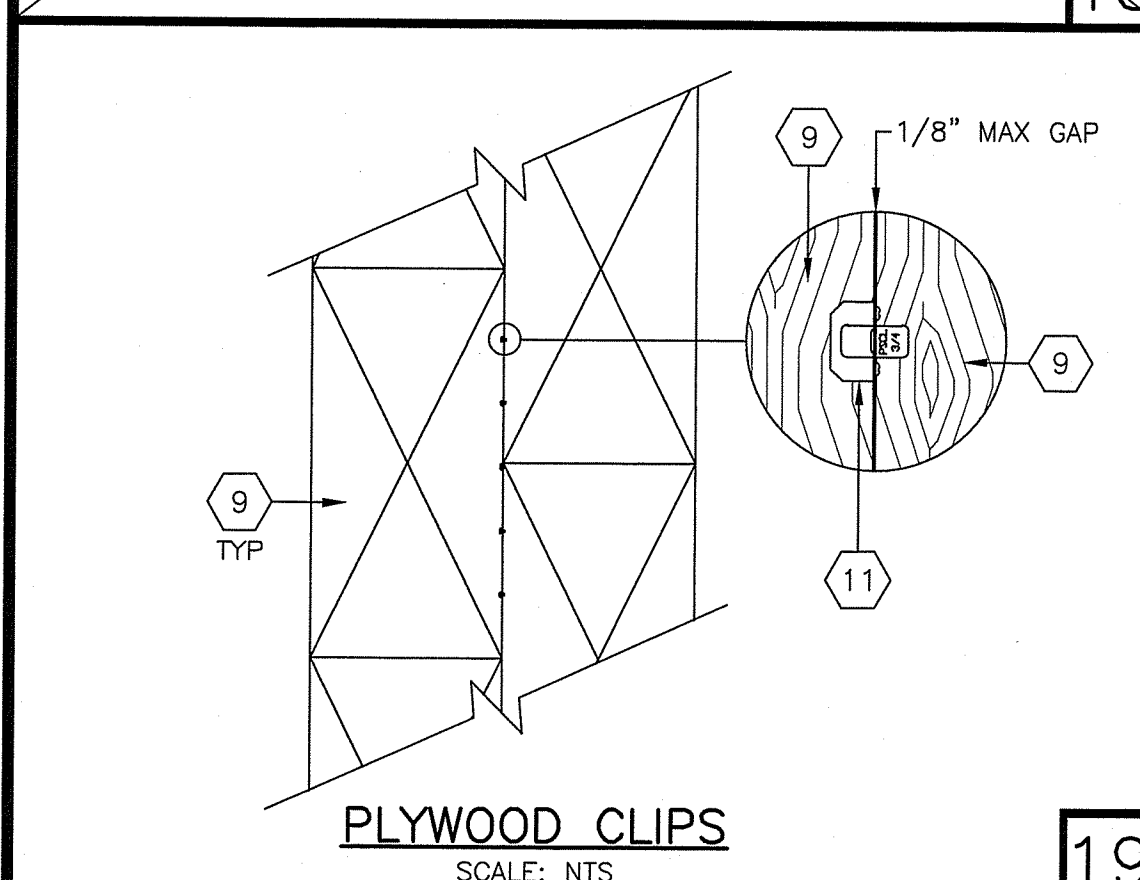
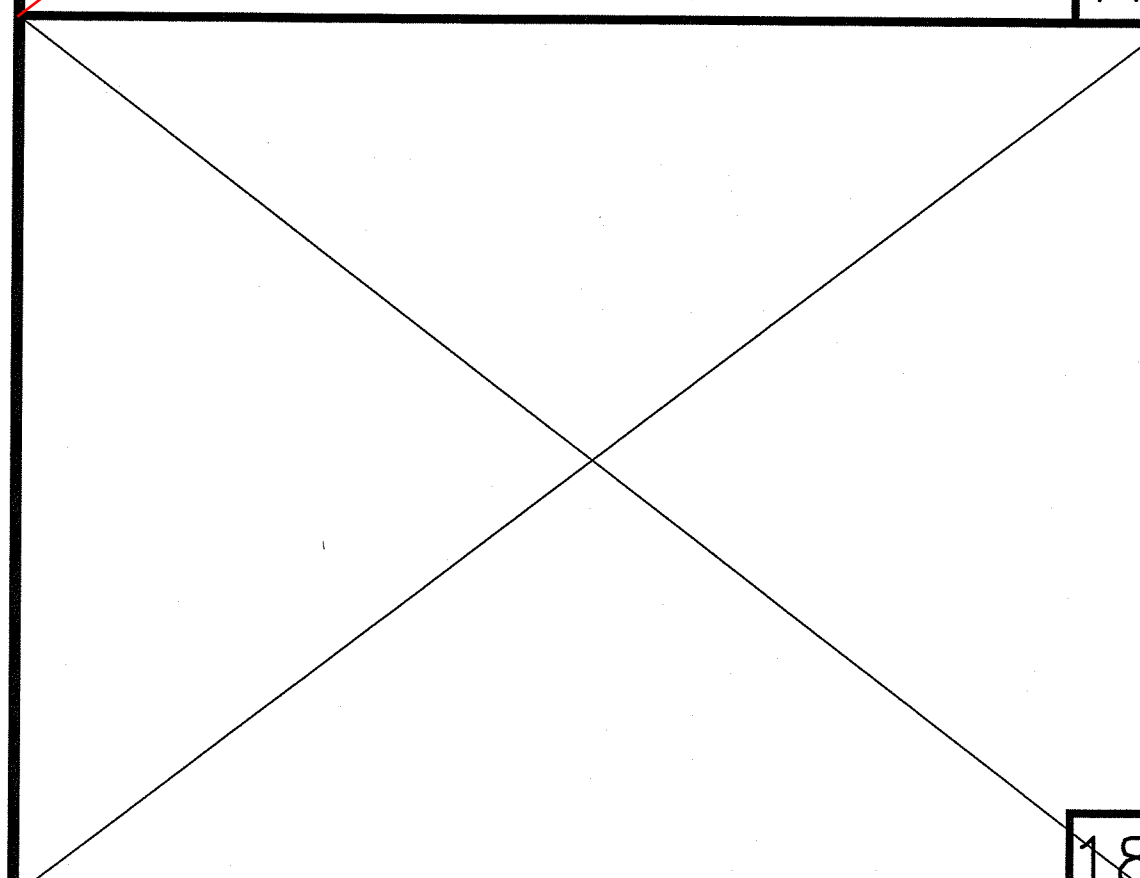
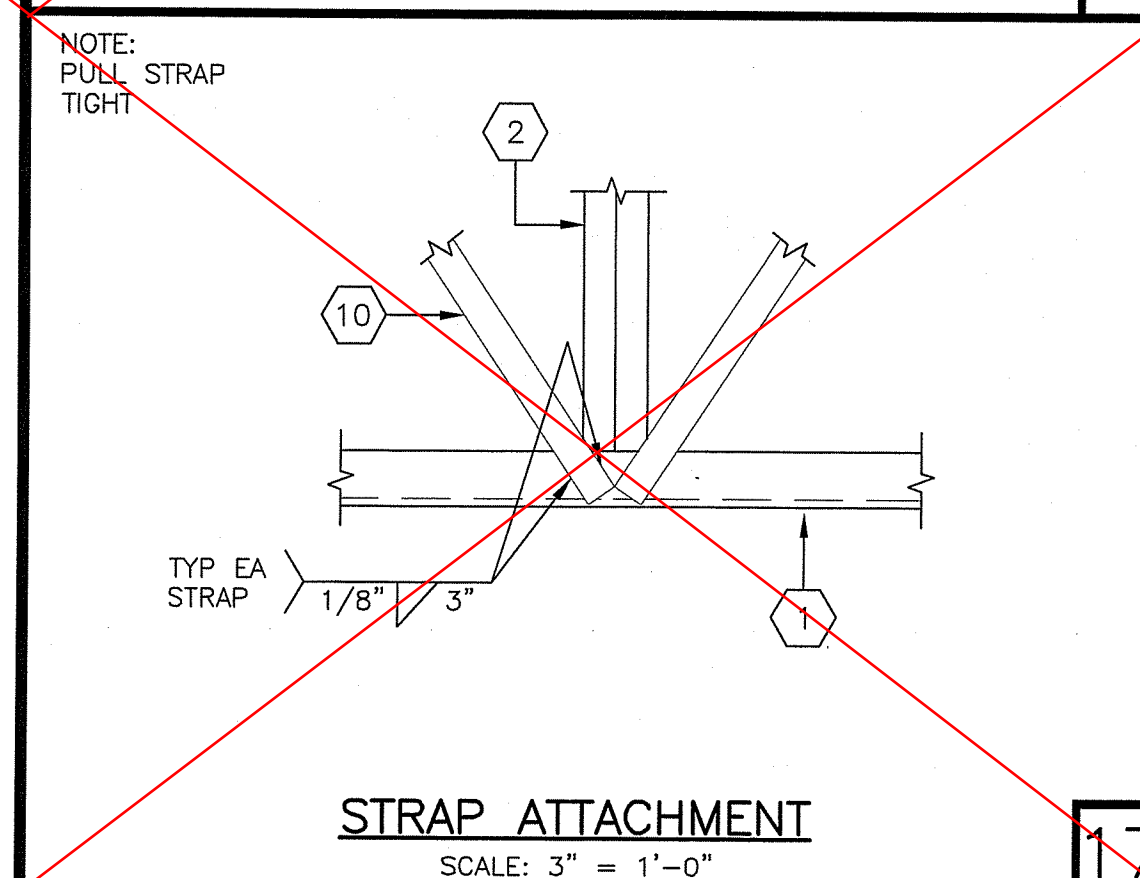
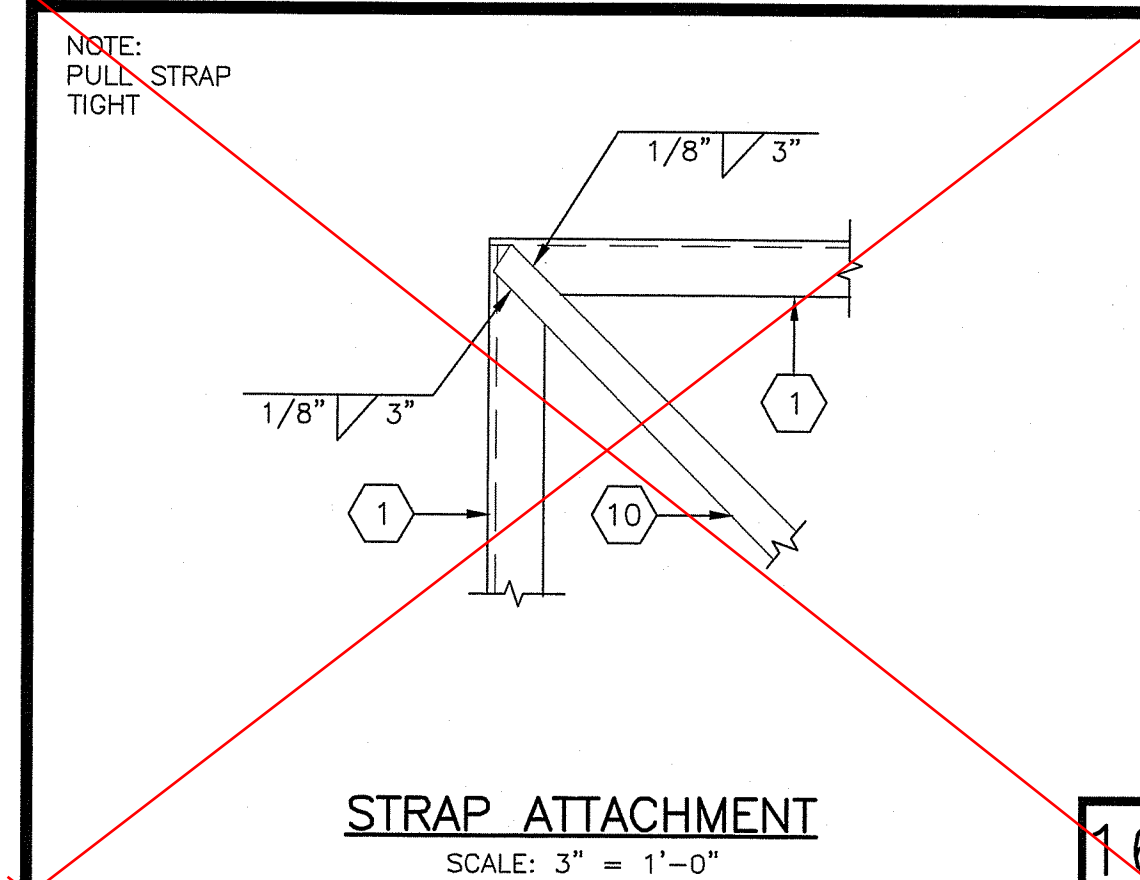
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE #: PC-72  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2018

REVISIONS

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00

SHEET NUMBER  
**S1.1**





- ### KEY NOTES
1. ROOF HEADER/BEAM (SEE STRUCTURAL ROOF FRAMING PLAN)
  2. ROOF JOIST (SEE STRUCTURAL ROOF FRAMING PLAN)
  3. DOUBLE JOIST BLOCKING
  4. ~~ROOF MOUNTED A/C UNIT (SEE MECHANICAL PLANS)~~
  5. 1/4" STIFFENER
  6. L-1 1/2" x 1 1/2" x 3/16" BRACE
  7. 5/8" MACHINE BOLT, SHEET S0.1 AND S0.2 FOR SPACING
  8. OVERHANG OUTRIGGER FASCIA (SEE STRUCTURAL ROOF FRAMING PLAN)
  9. PLYWOOD ROOF
  10. ~~METAL STRAP (SEE SHEET S2.3)~~
  11. 'SIMPSON' PSCL (3/4" X 20 GA) PLYWOOD CLIPS. SEE SHEET S2.2 FOR PLYWOOD ATTACHMENT INFORMATION

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
Incorporated

**AURORA MODTECH**  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 685-5800  
FAX: (559) 685-5700  
WEBSITE: WWW.GDMV.NET

SOUTHERN CALIFORNIA DIVISION  
1660 CHICAGO AVE., SUITE #N-21  
RIVERSIDE, CA 92507  
PHONE: (951) 988-3633  
FAX: (951) 888-3682  
WEBSITE: WWW.GDMV.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:  
**ROOF FRAMING DETAILS**

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

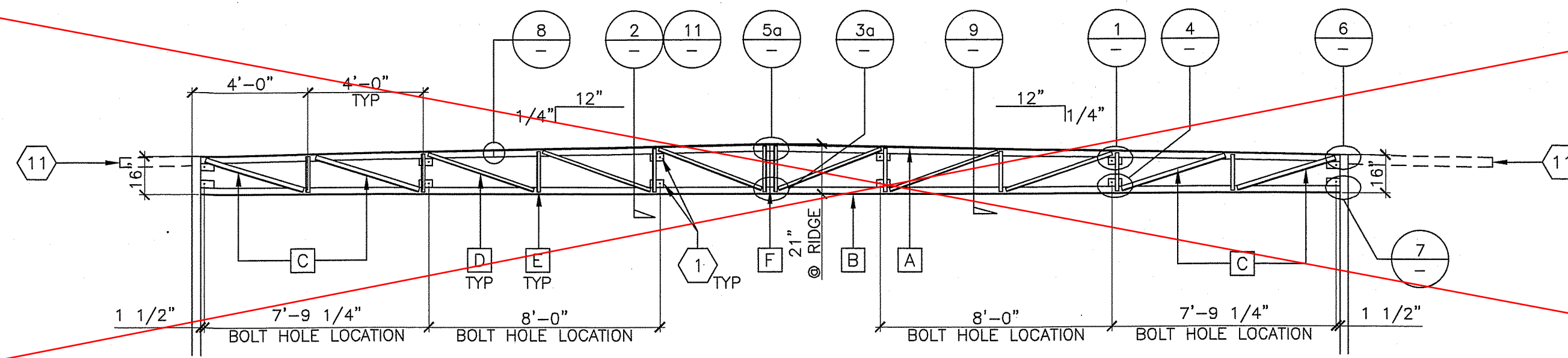
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE #: PC-7  
AC: ☒ FLS: ☒ SS: ☒  
DATE: DEC 14 2018

REVISIONS

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER

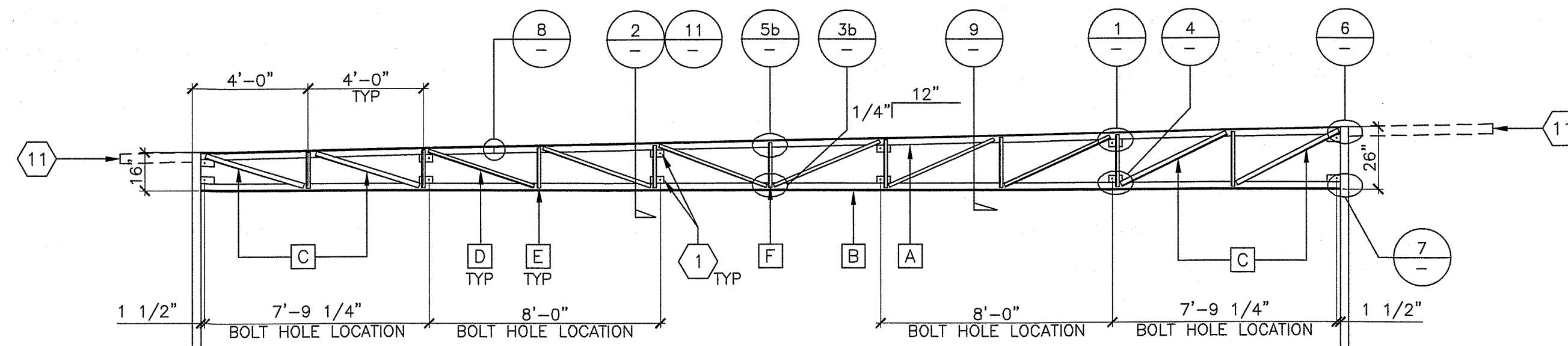
# S2.0





DUAL SLOPE TRUSS AT MODLINE

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



MONO SLOPE TRUSS AT MODLINE

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

## KEY NOTES

- 3/8" X 3" X 5 1/2" PLATE (A-36 STEEL) WITH 11/16" HOLE FOR 5/8" MACHINE BOLT PLATES AT 8'-0" OC MAX WHERE OCCURS PER ELEVATION FOR MODULE CONNECTION SEE DETAIL 2
- 5/8" MACHINE BOLT AT 8'-0" OC MAX
- 6" LONG X 1/4" BACK UP PLATE (A-36 STEEL)
- 1/4" FULL DEPTH STIFFENER PLATE
- NOT USED
- NOT USED
- STEEL ROOF JOIST
- L-1 1/2" X 1 1/2" X 3/16" BRACE EACH SIDE @ 8'-0" OC MAX
- STEEL COLUMN
- STEEL STUB COLUMN
- OVERHANG
- WHERE DIAGONAL CHORD DOES NOT ACHIEVE MIN WELD PER DETAIL DUE TO TOLERANCES, USE ADDITIONAL PLATES AS REQUIRED. PLATES SHALL MEET THE SAME SIZE AND GRADE PER KEYNOTE #01. WELD ADDITIONAL PLATE PER DETAIL #2/-

## GENERAL NOTES

- ALL STEEL GRADES TO BE A-36 PER SHEET S0.0g
- REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70-XX OR EQUAL
- VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURERS SPECS
- BOLTS & NUTS TO BE A307

## TRUSS SCHEDULE

A	TOP CHORD	L-3" X 3" X 3/8"
B	BOTTOM CHORD	L-3" X 3" X 3/8"
C	1ST & 2ND DIAGONAL	L-2" X 2" X 3/16" - 4" TOTAL WELD COMBINED
D	TYPICAL DIAGONAL	L-1 1/2" X 1 1/2" X 3/16" - 1-1/2" FILLET WELD AT EACH SIDE EACH END.
E	TYPICAL VERTICAL	L-1 1/2" X 1 1/2" X 3/16" - 1-1/2" FILLET WELD AT EACH SIDE EACH END.
F	CAMBER	5/8" AT MIDSPAN

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
INCORPORATED  
**AURORA MODTECH**  
DESIGN  
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION 1200 AIRPORT DRIVE, SUITE #M-21 CHOWHILLA, CA 93610  
PHONE: (559) 665-5800 FAX: (559) 665-5700 WEBSITE: WWW.GDMV.NET  
SOUTHERN CALIFORNIA DIVISION 1680 CHICAGO AVE., SUITE #M-21 RIVERSIDE, CA 92507  
PHONE: (951) 686-3633 FAX: (951) 686-3662 WEBSITE: WWW.GDMV.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

ROOF TRUSS  
AND DETAILS

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018  
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

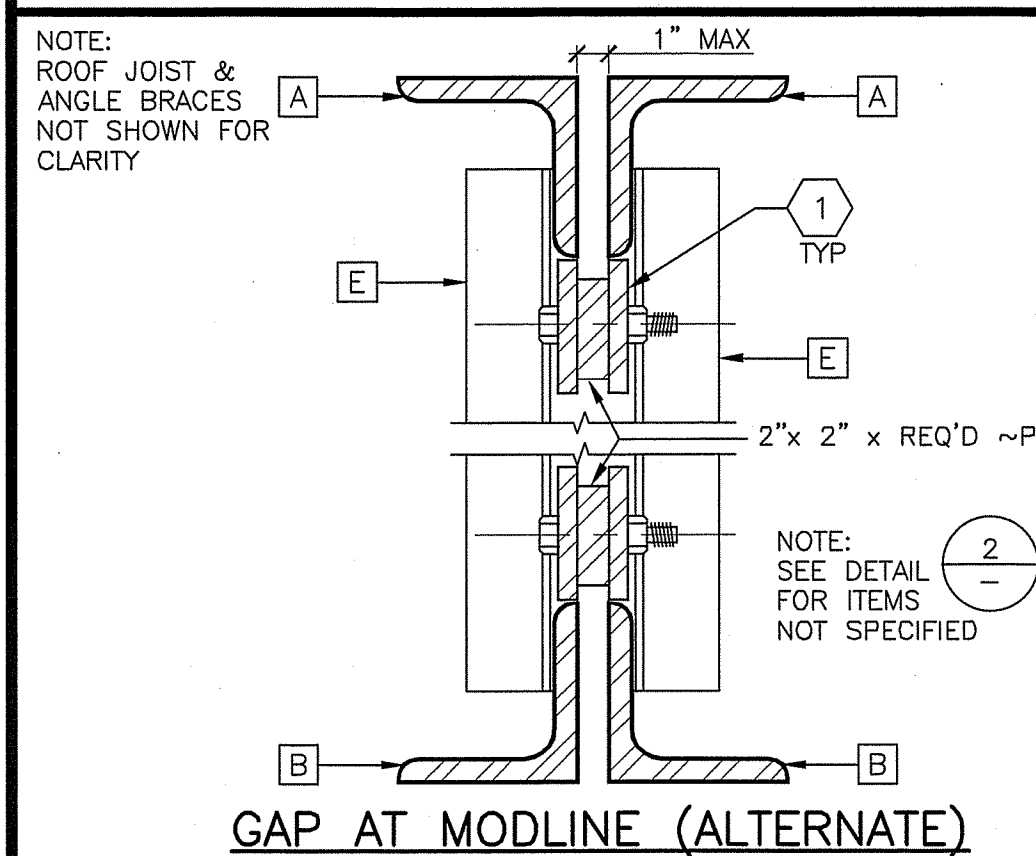
PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # PC-72  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2018

REVISIONS

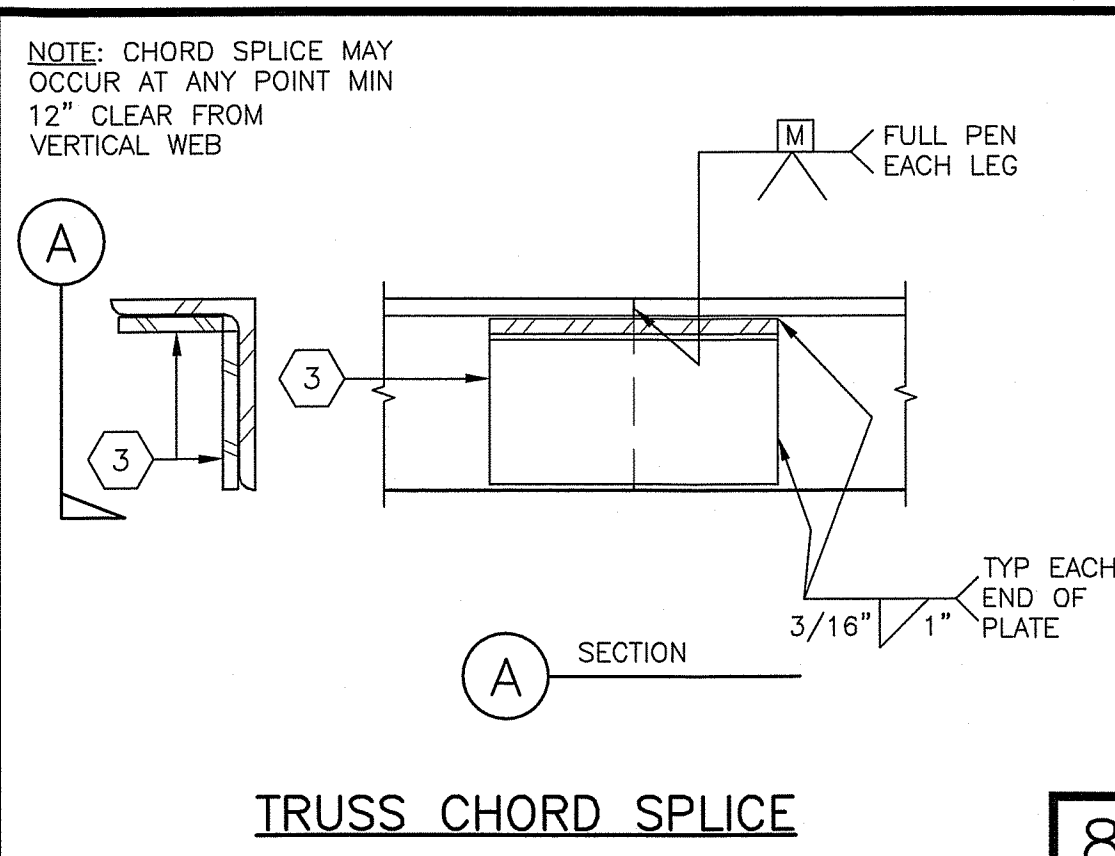
PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER

**S2.1**



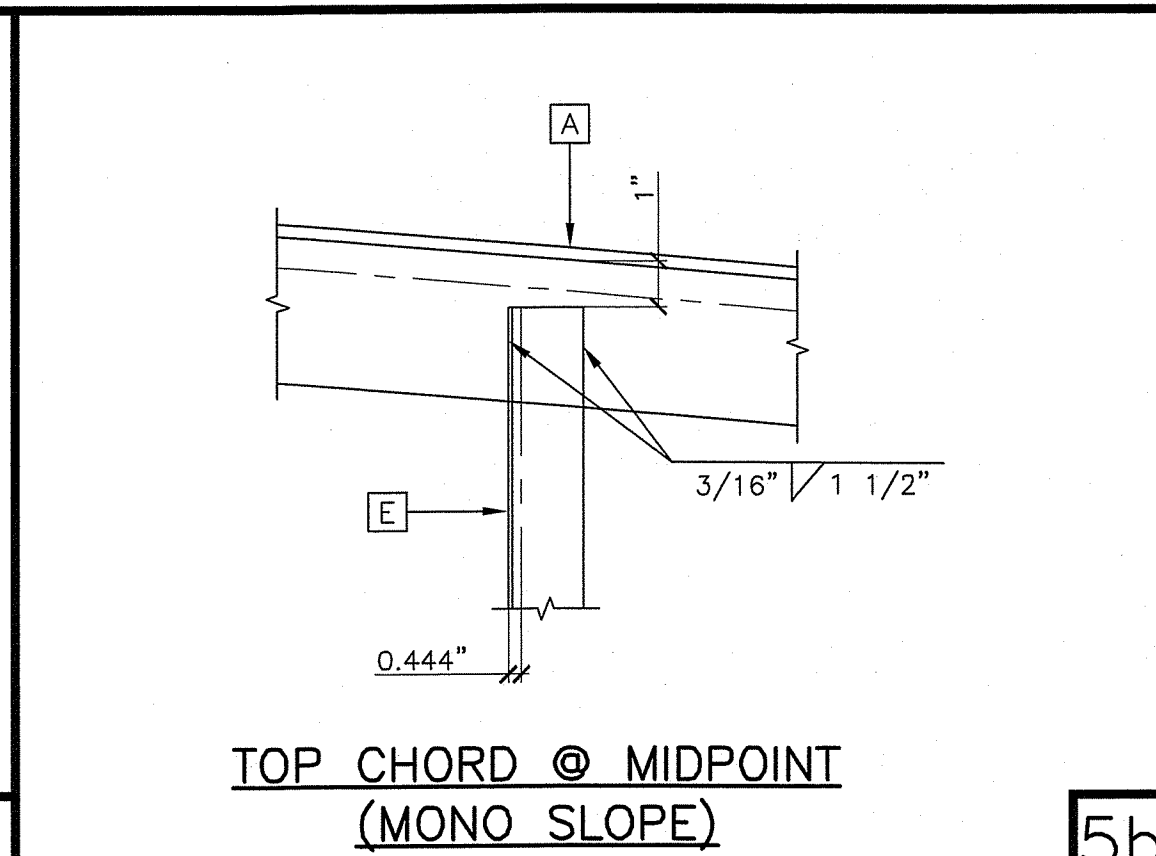
GAP AT MODLINE (ALTERNATE)

11



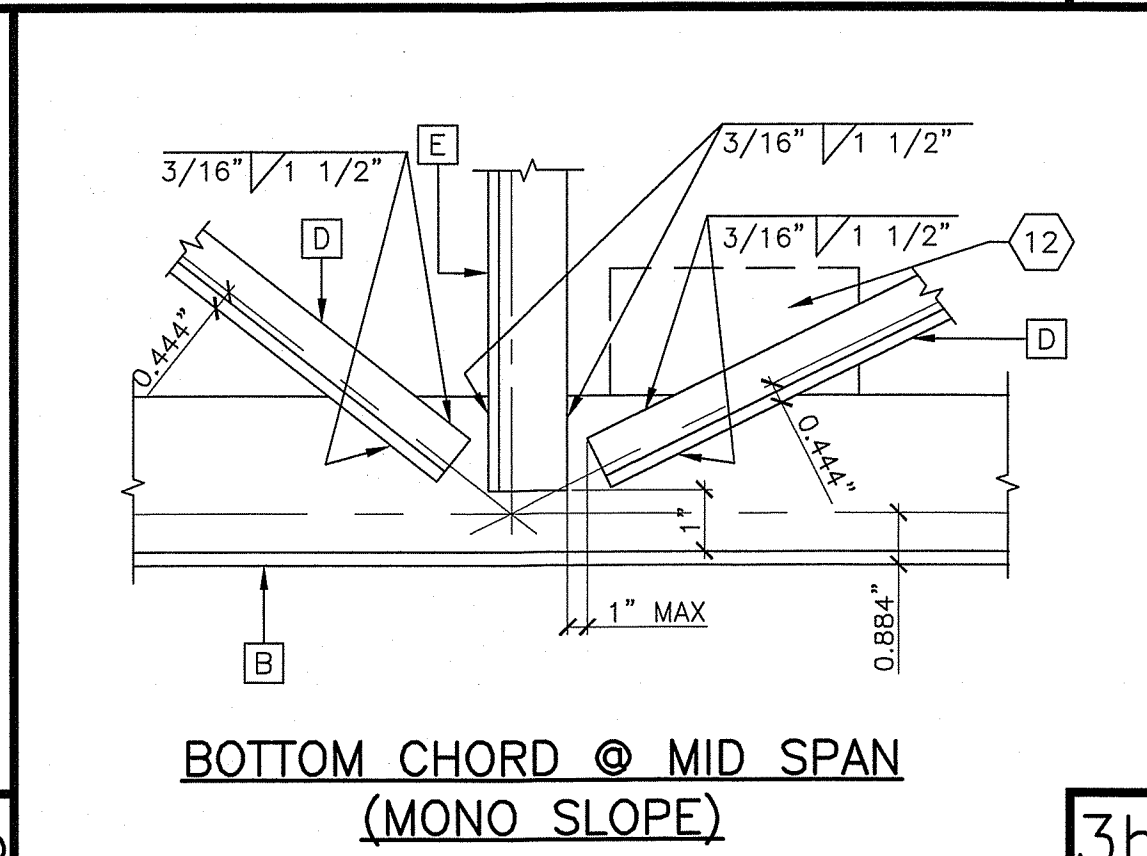
TRUSS CHORD SPLICE

8



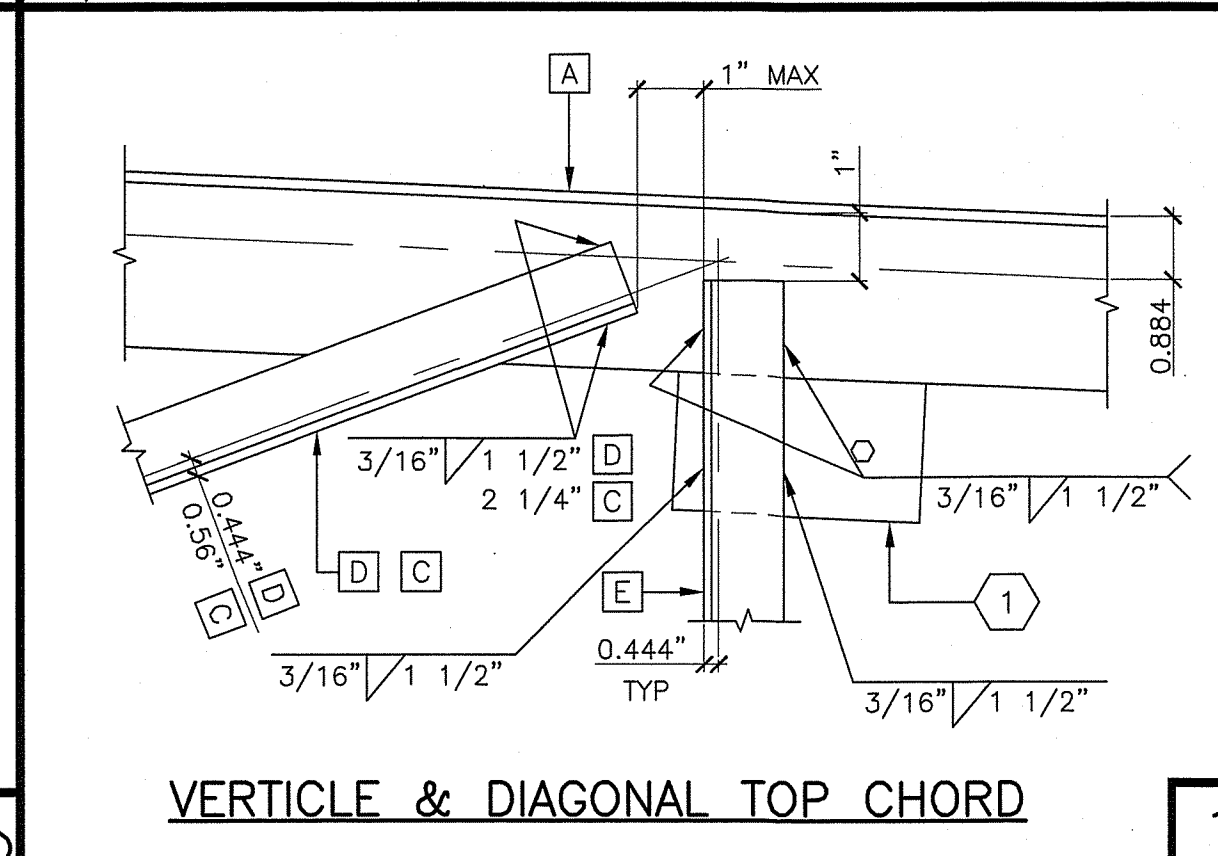
TOP CHORD @ MIDPOINT  
(MONO SLOPE)

5b



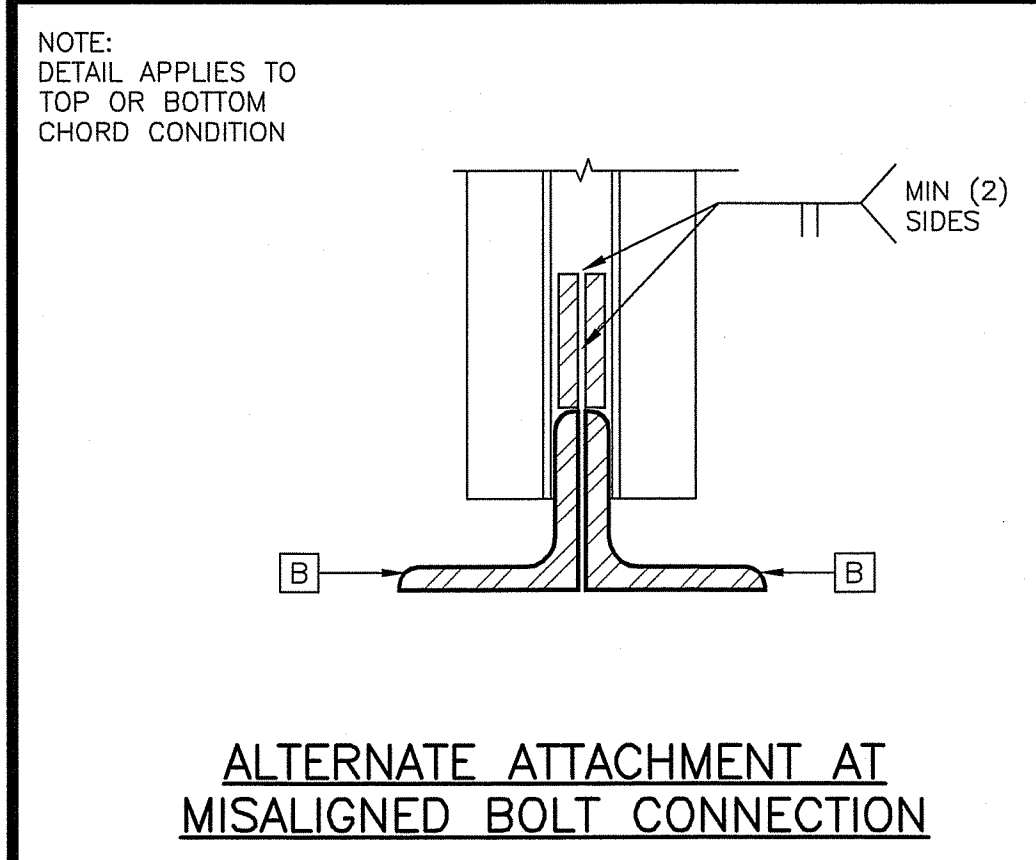
BOTTOM CHORD @ MID SPAN  
(MONO SLOPE)

3b



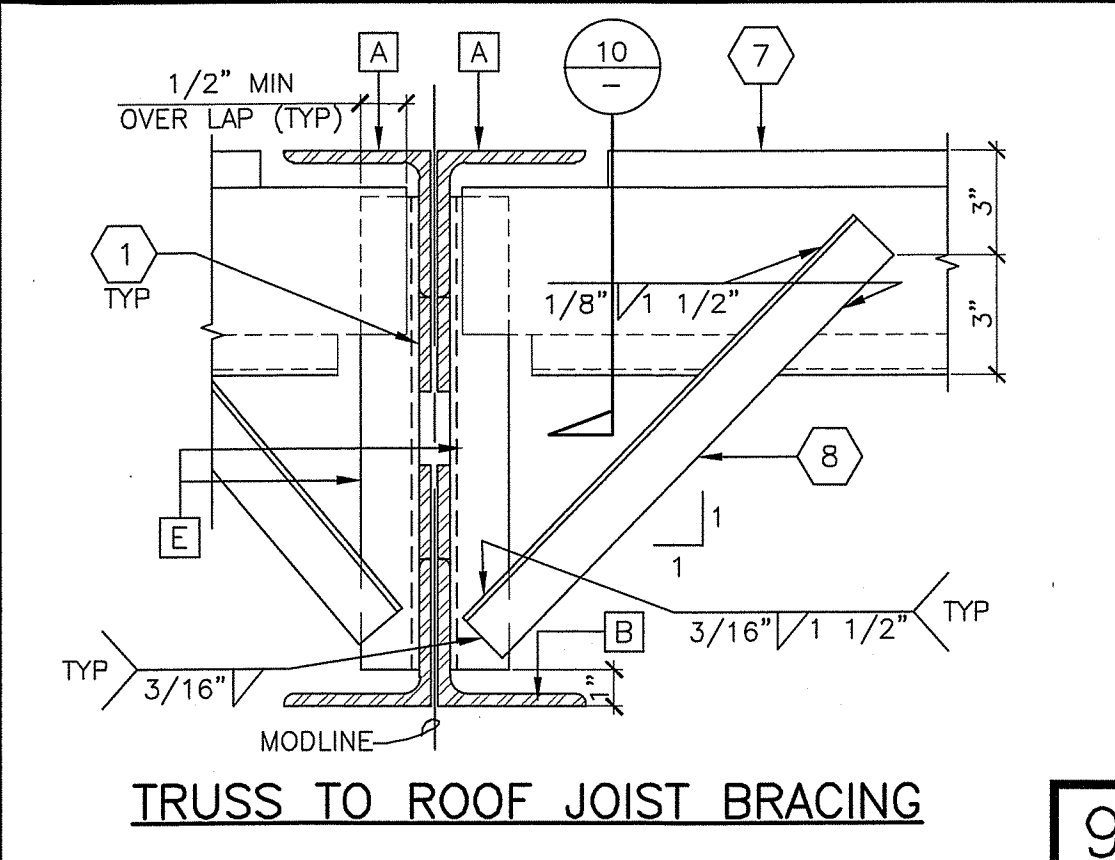
VERTICLE & DIAGONAL TOP CHORD

1



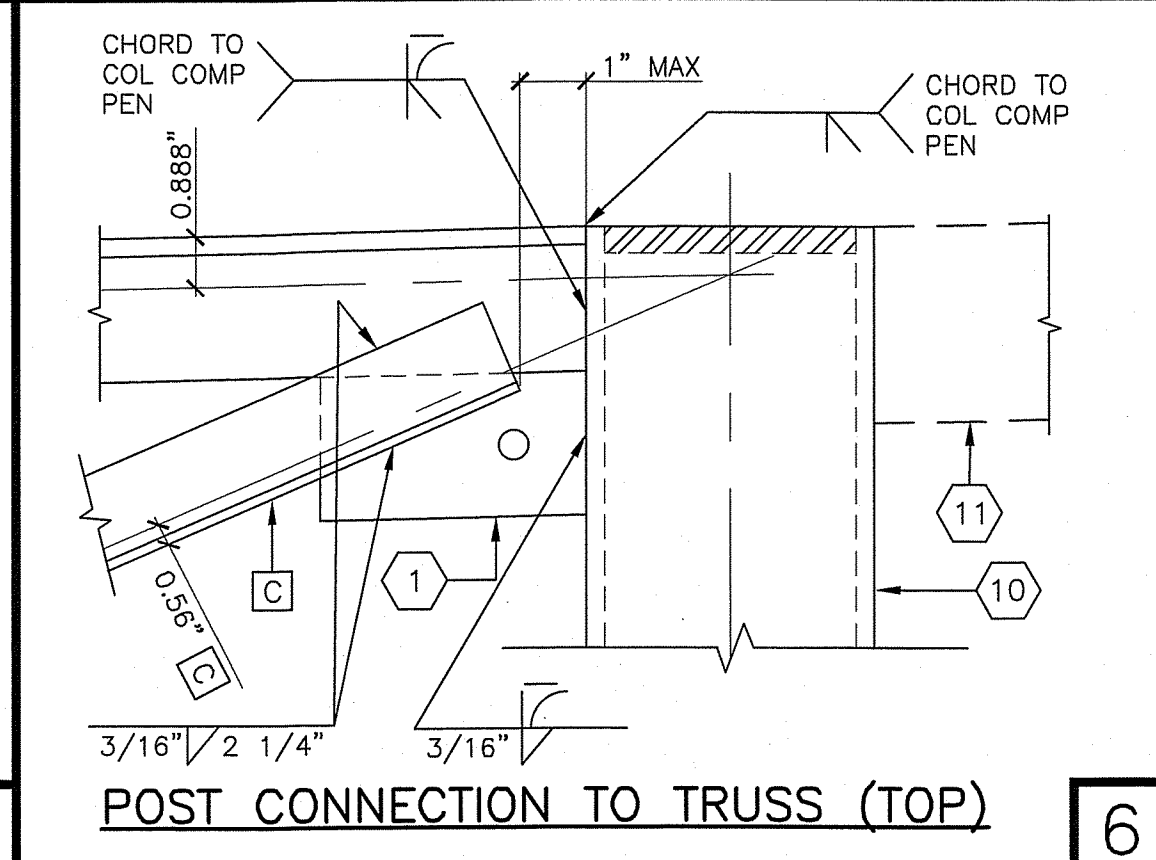
ALTERNATE ATTACHMENT AT  
MISALIGNED BOLT CONNECTION

12



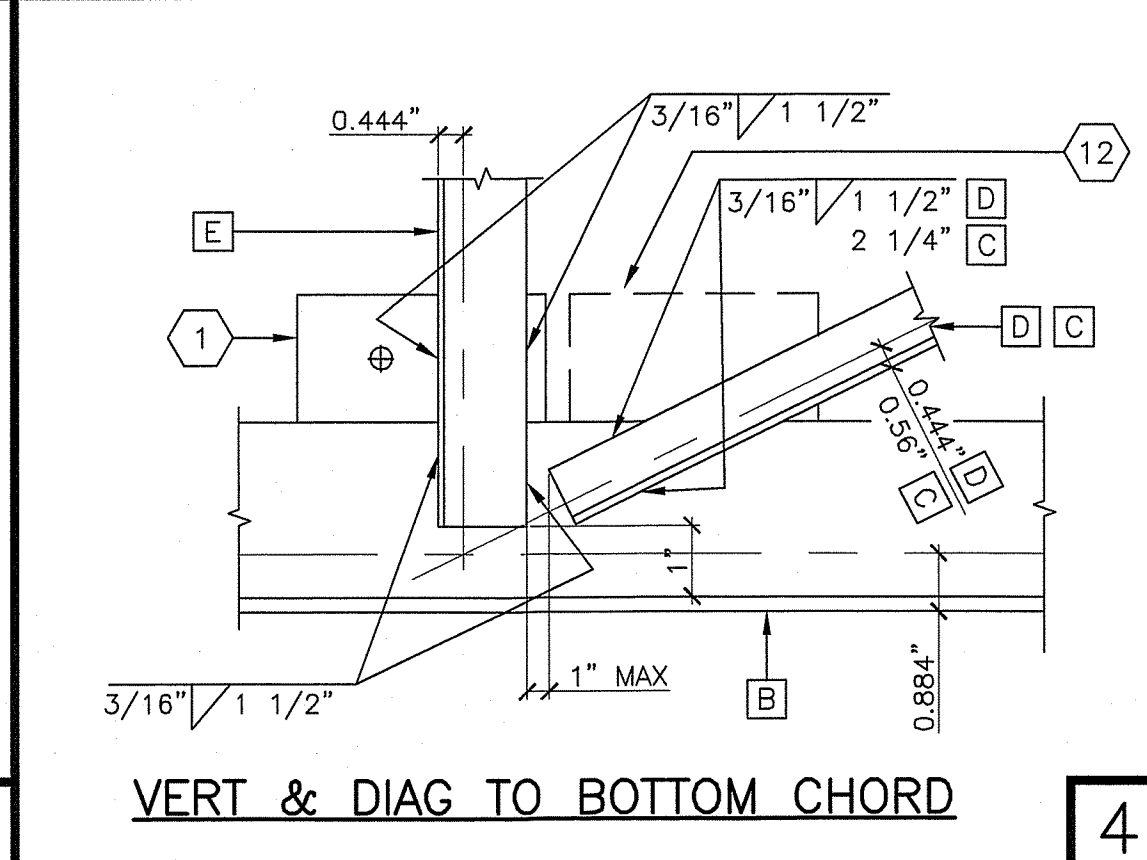
TRUSS TO ROOF JOIST BRACING

9



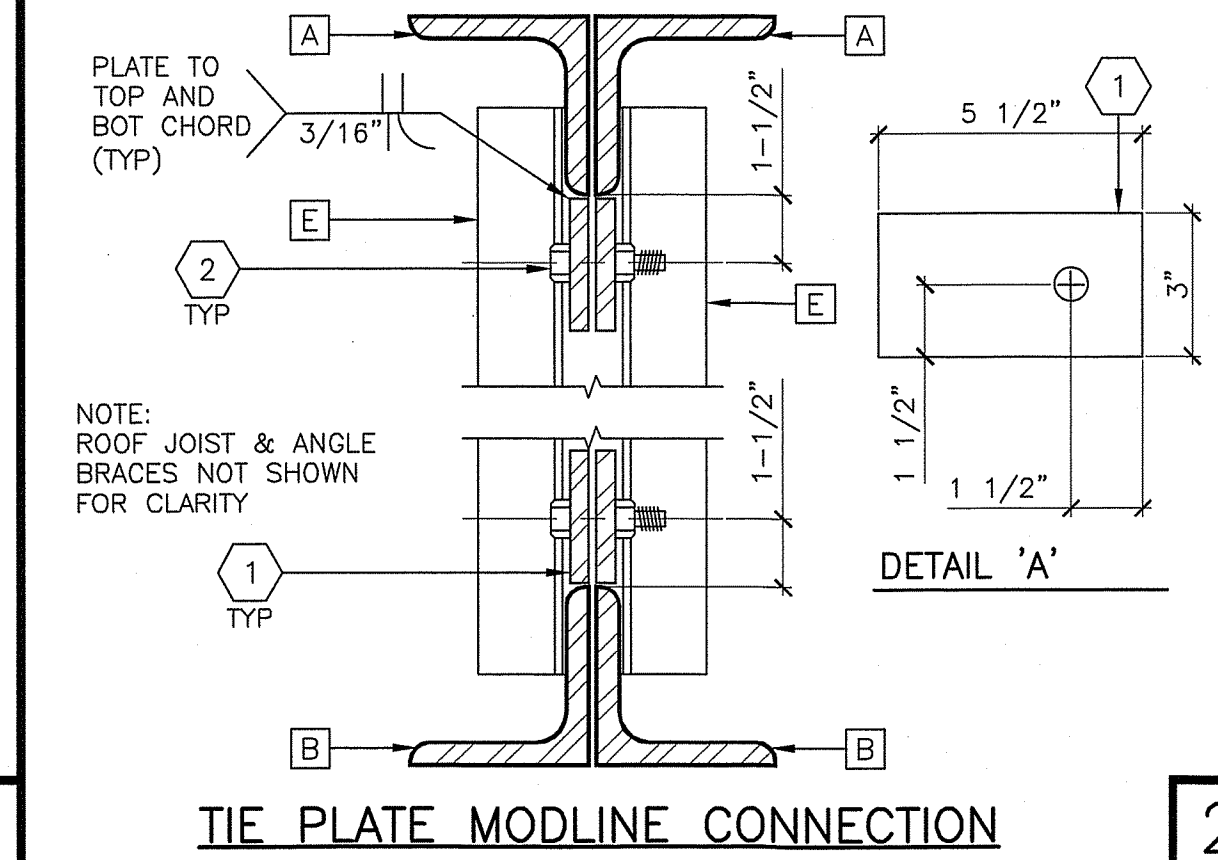
POST CONNECTION TO TRUSS (TOP)

6



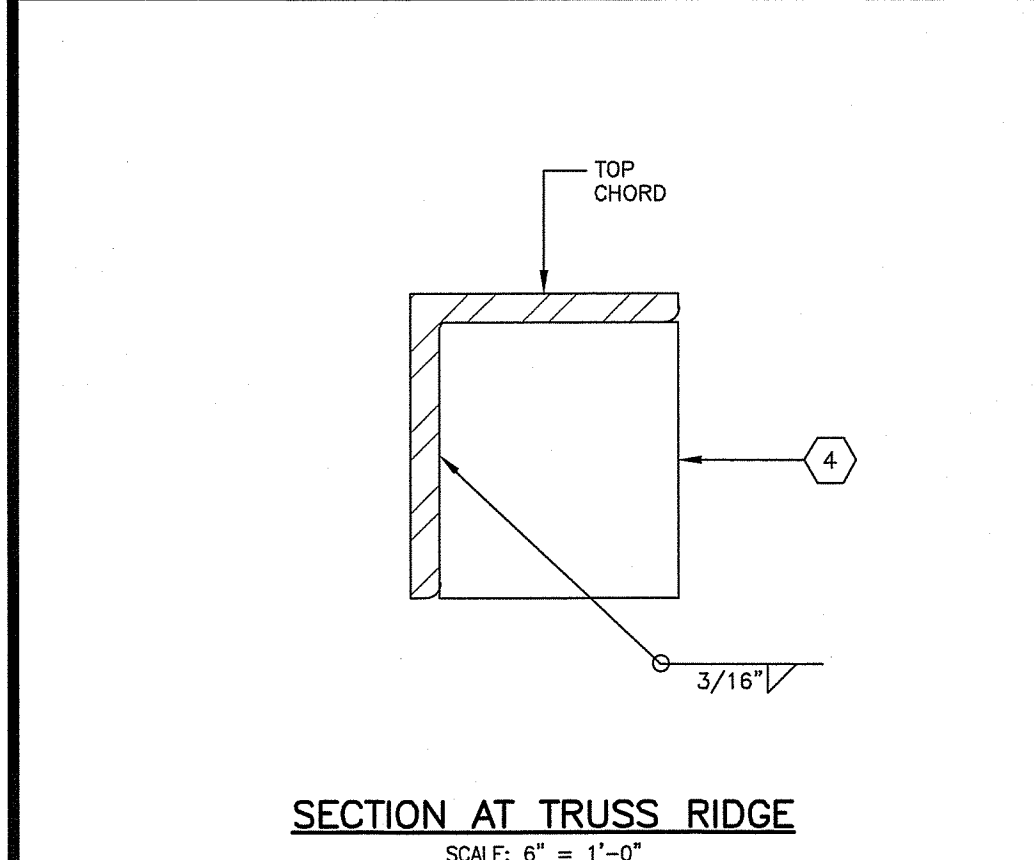
VERT & DIAG TO BOTTOM CHORD

4



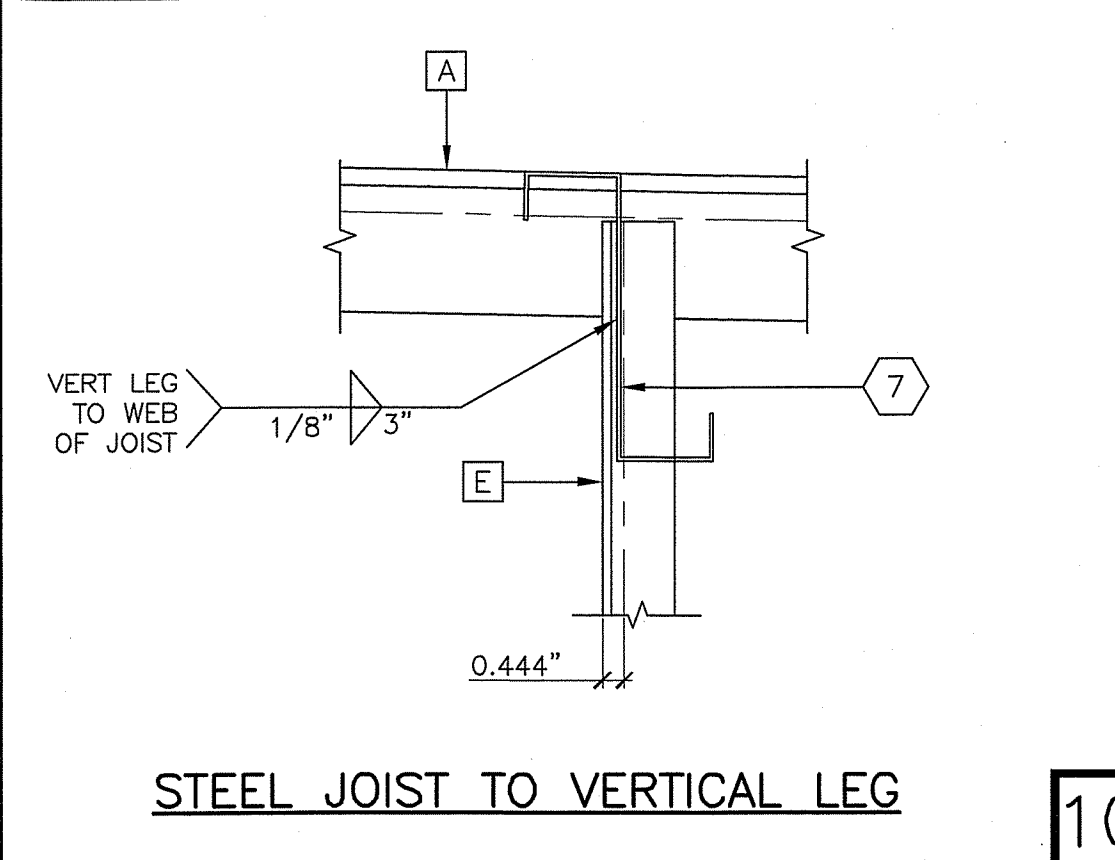
TIE PLATE MODLINE CONNECTION

2



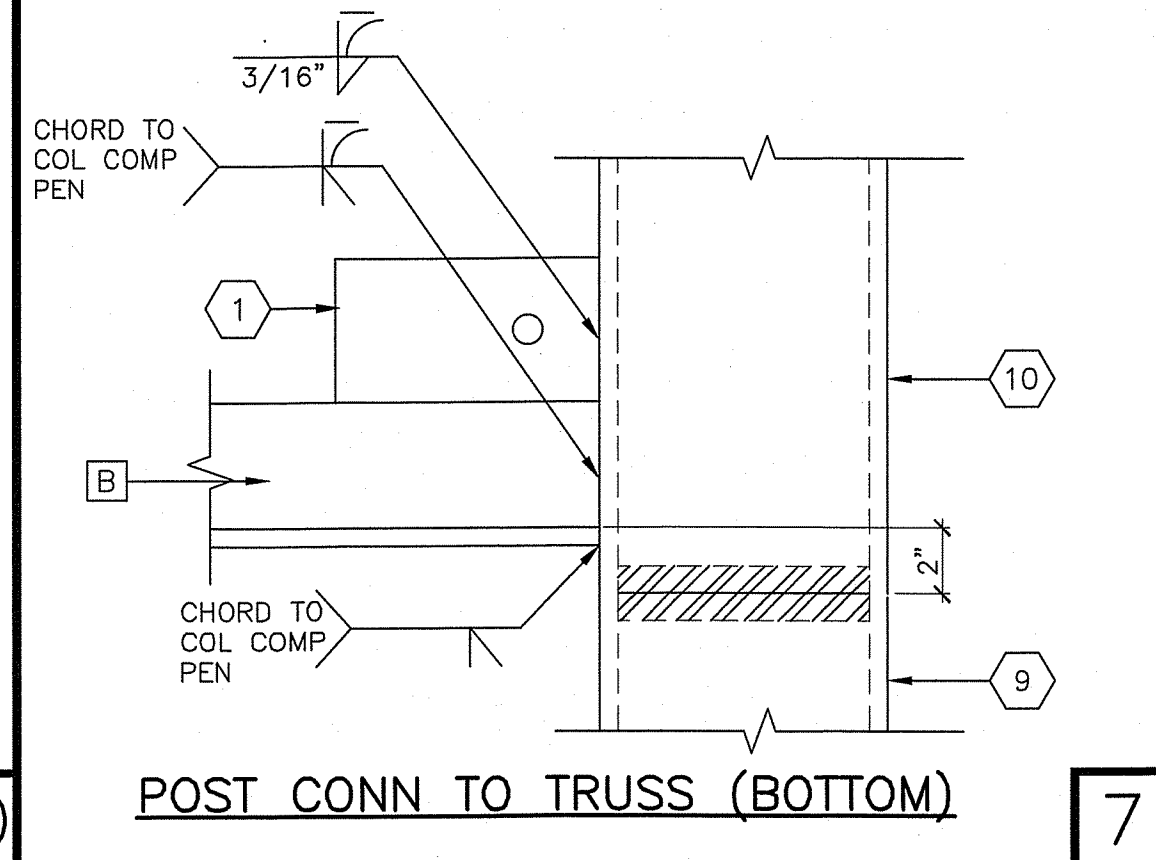
SECTION AT TRUSS RIDGE  
SCALE: 6" = 1'-0"

13



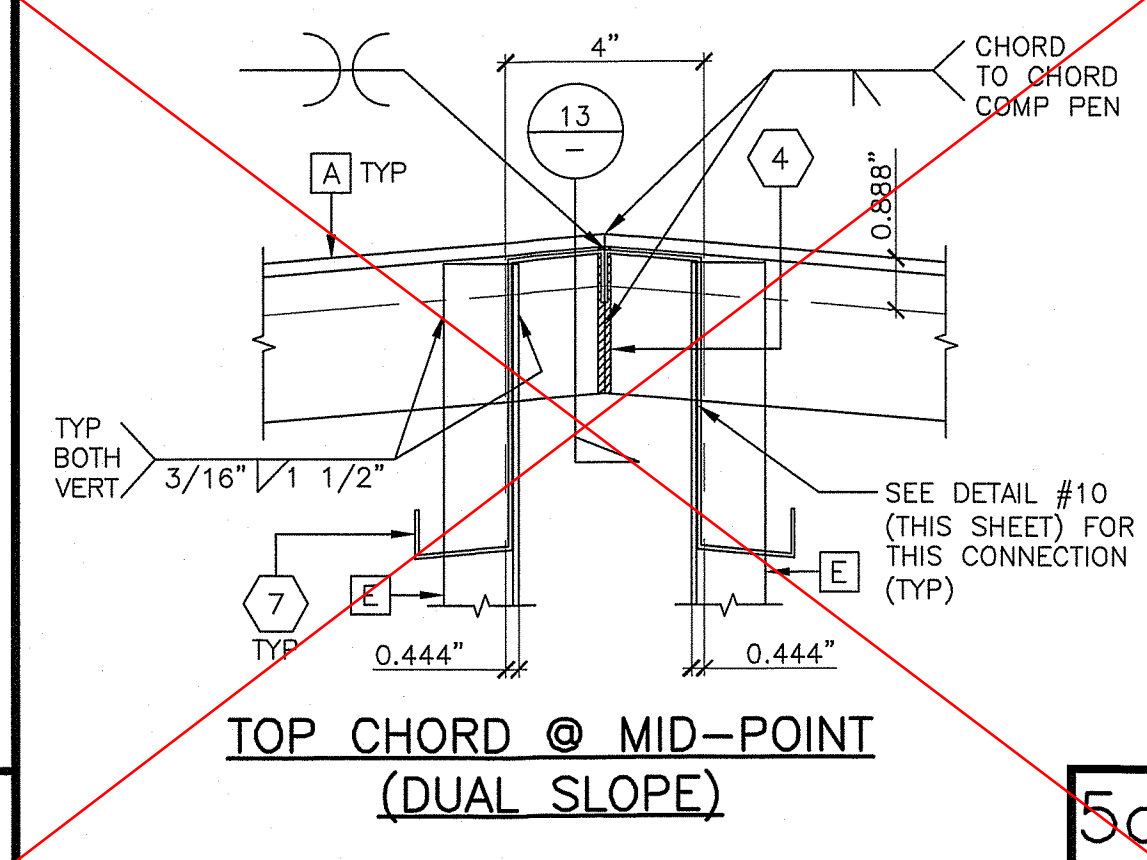
STEEL JOIST TO VERTICAL LEG

10



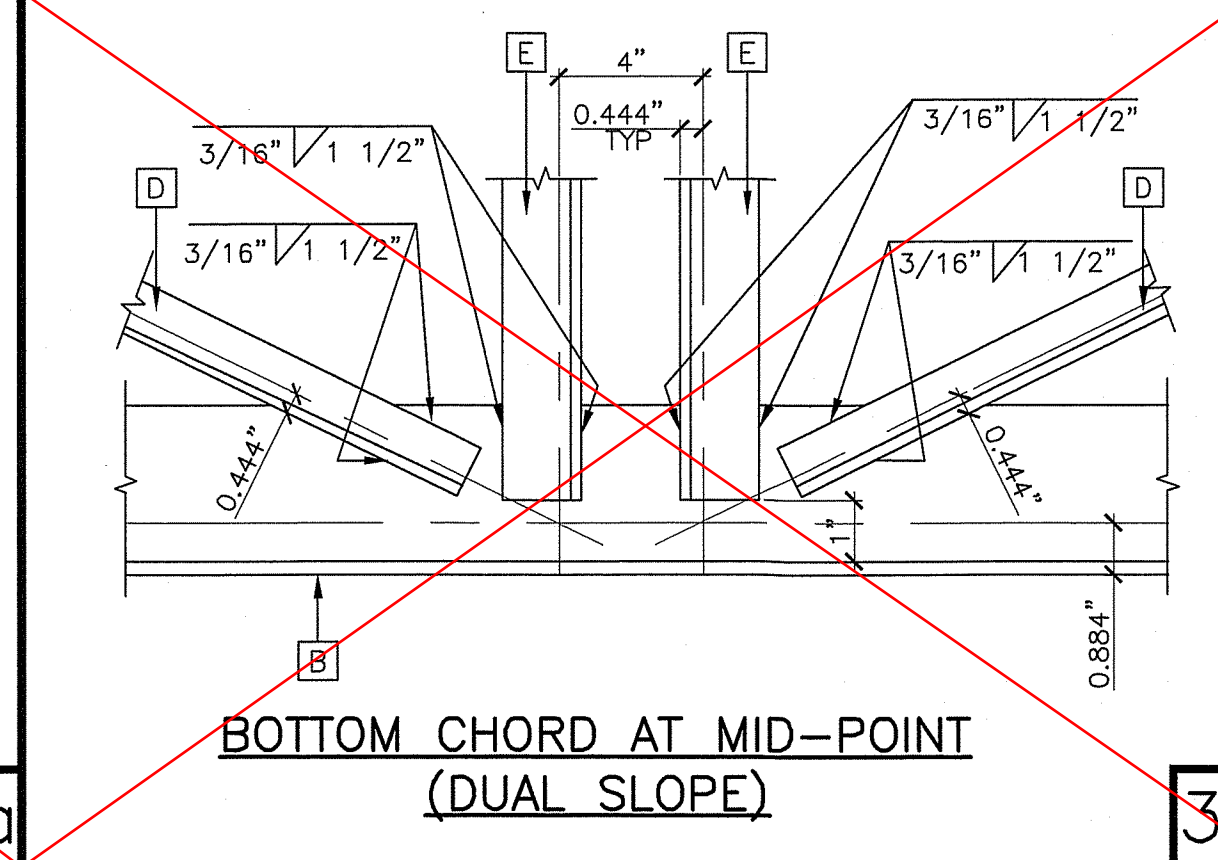
POST CONN TO TRUSS (BOTTOM)

7



TOP CHORD @ MID-POINT  
(DUAL SLOPE)

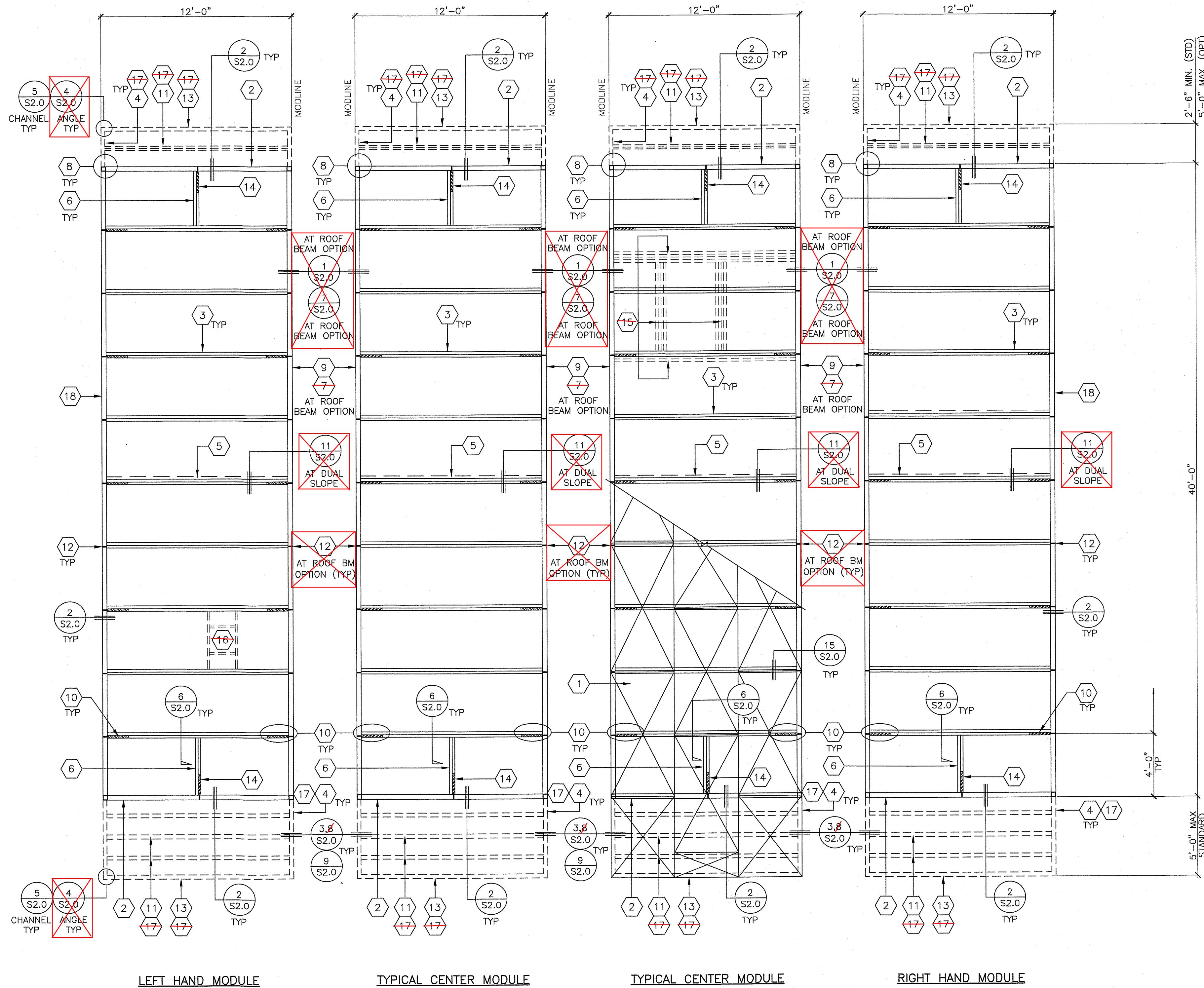
5a



BOTTOM CHORD AT MID-POINT  
(DUAL SLOPE)

3a



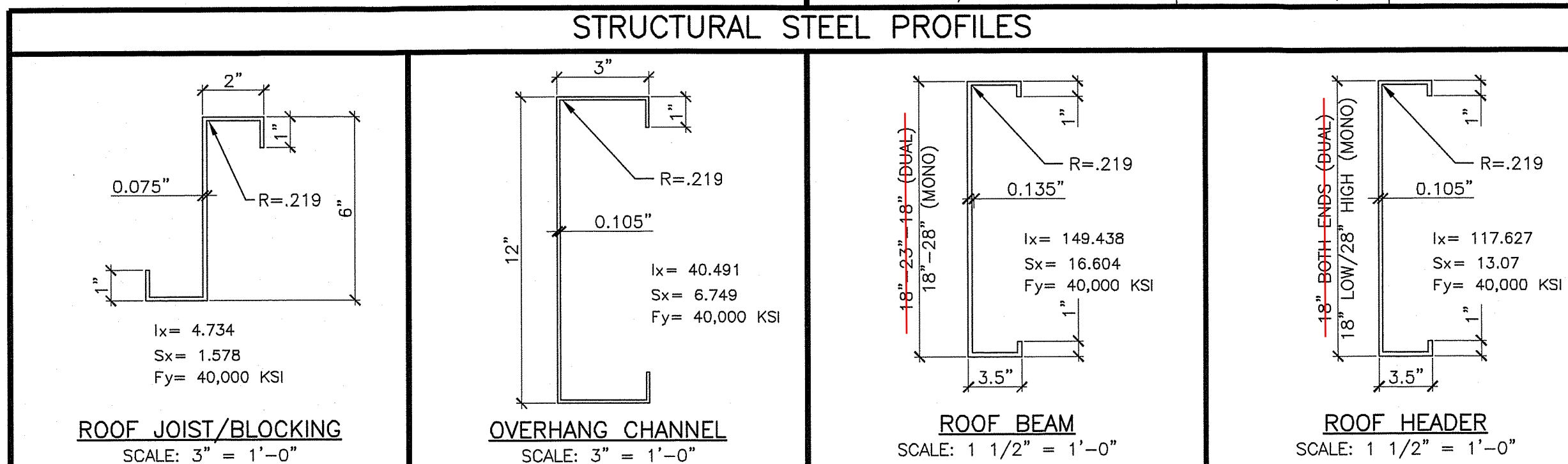


ROOF FRAMING PLAN W/ PLYWOOD DECK  
SCALE: 1/4" = 1'-0"

## KEY NOTES

- ROOF SHEATHING: 3/4" C-D EXPOSURE 1, 48/24 SPAN RATING, PS 1-09, APA RATED OR EQUAL, SQUARE EDGE W/ PLYWOOD CLIPS @ 16" OC LONG EDGES ON UNSUPPORTED EDGES (SEE #19/S2.0); ATTACH TO STEEL FRAMING WITH #10-24 X 1 3/4" SELF TAP SCREWS @ 6" OC BOUNDARY & EDGES AND 6" OC FIELD WHERE JOIST ARE AT 48" OC AND 12" OC FIELD AT JOISTS WITH SPACING LESS THAN 48" OC. MIN 24" SHEET DIMENSION.
- ~~NON-COMBUSTIBLE ROOF OPTION: USE FIRE RETARDANT SHEATHING. SHEATHING SHALL BE EQUAL TO THE SAME THICKNESS, SPAN RATING, AND EXPOSURE RATING OF STANDARD PLYWOOD. FIRE RETARDANT SHEATHING SHALL BEAR THE STAMP APPROVAL OF UL OR APA FOR FIRE RETARDANT CERTIFICATION.~~
- 'C' SHAPE ROOF HEADER (SEE PROFILE BELOW)
- 'Z' SHAPE ROOF JOIST (SEE PROFILE BELOW)
- 'C' SHAPE OVERHANG OUTRIGGER, TYPICAL EACH SIDE (SEE PROFILE BELOW)
- ~~USE DOUBLE JOIST AT THIS LOCATION (MID-SPAN) FOR DUAL SLOPE ROOF. ADDITIONAL JOIST SHOWN AS HIDDEN LINES. USE SINGLE JOIST AT THIS LOCATION FOR MONO SLOPE ROOF.~~
- 'Z' SHAPE ROOF JOIST BLOCKING AT MID-SPAN OF HEADER, TYPICAL EACH END
- ~~OPTIONAL 'C' SHAPE ROOF BEAM AT MODLINE (SEE PROFILE BELOW)~~
- STEEL CORNER STUB COLUMN
- STEEL TRUSS (SEE ROOF TRUSS & DETAILS SHEET)
- STEEL TRUSS BRACE AT BOTH TRUSS AND BEAM
- 'Z' SHAPE OVERHANG JOIST (SEE PROFILE BELOW)
- 1/4" FULL HEIGHT STIFFENER AT ROOF BEAM TYPICAL (SEE STRUCTURAL BLDG SECTION SHEET)
- 'C' SHAPE OVERHANG FASCIA
- STEEL BRACE AT ROOF HEADER TYPICAL (SEE BUILDING SECTIONS)
- ~~OUTLINE OF TYPICAL A/C ROOF MOUNT FRAMING. SEE MECHANICAL PLANS FOR LOCATIONS. PROVIDE DOUBLE PURLINS AS SHOWN. SEE DETAIL #10/S2.0.~~
- ~~FOR SOLAR OPTION, SEE SHEET A11.0 FOR LOCATIONS AND DETAIL.~~
- ~~ALT OVERHANG MEMBER AT FASCIA AND OUTRIGGER: L 5" X 3" X 3/8". SPACING OF ALT OVERHANG MEMBER AT 24" OC MAX.~~
- ROOF BEAM AT SIDEWALL (SEE PROFILE BELOW)

ROOF BEAM SCHEDULE		
ROOF SLOPE		
DUAL	18"-23"-18" x 3 1/2" x 10 GA TAPERED SECTION CHANNEL	
MONO	18"-28" x 3 1/2" x 10 GA TAPERED SECTION CHANNEL	
ROOF HEADER SCHEDULE		
ROOF SLOPE		
DUAL	18" x 3 1/2" x 12 GA CHANNEL (BOTH ENDS)	
MONO	18" x 3 1/2" x 12 GA CHANNEL (LOW END) 28" x 3 1/2" x 12 GA CHANNEL (HIGH END)	
ROOF JOIST SCHEDULE		
JOIST	SPACING	
6" x 2" x 14 GA Z-MEMBER	48" OC	
MODLINE SCHEDULE		
TOP CHORD	BOTTOM CHORD	CHANNEL
SEE ROOF TRUSS SHEET	SEE ROOF TRUSS SHEET	N/A
N/A	N/A	18" TO 28" CHANNEL
OVERHANG SCHEDULE		
STANDARD OVERHANG		
JOIST	OUTRIGGER	FASCIA
Z-6" x 2" x 14 GA AT 24" MAX OC	C-12" x 3" x 12 GA	C-12" x 3" x 12 GA
OPTIONAL OVERHANG		
JOIST	OUTRIGGER	FASCIA
L-6" x 3" x 3/8" AT 24" MAX OC	L-5" x 3" x 3/8"	L-5" x 3" x 3/4"



PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
INCORPORATED

**AURORA MODTECH**  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 665-5800  
FAX: (559) 665-5700  
WEBSITE: WWW.GMODULAR.NET

SOUTHERN CALIFORNIA DIVISION  
1860 CHICO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3662  
WEBSITE: WWW.GMODULAR.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

**ROOF FRAMING PLAN  
PLYWOOD SHEATHING**

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

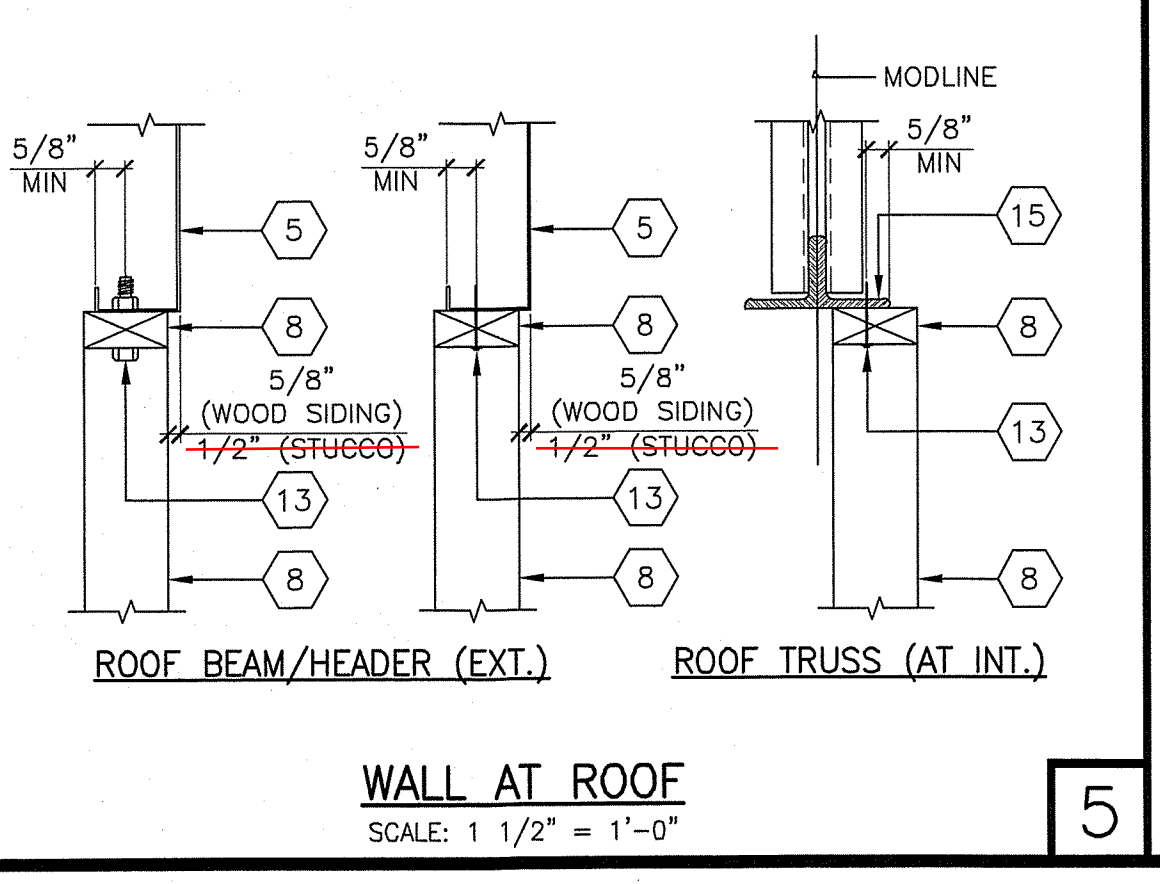
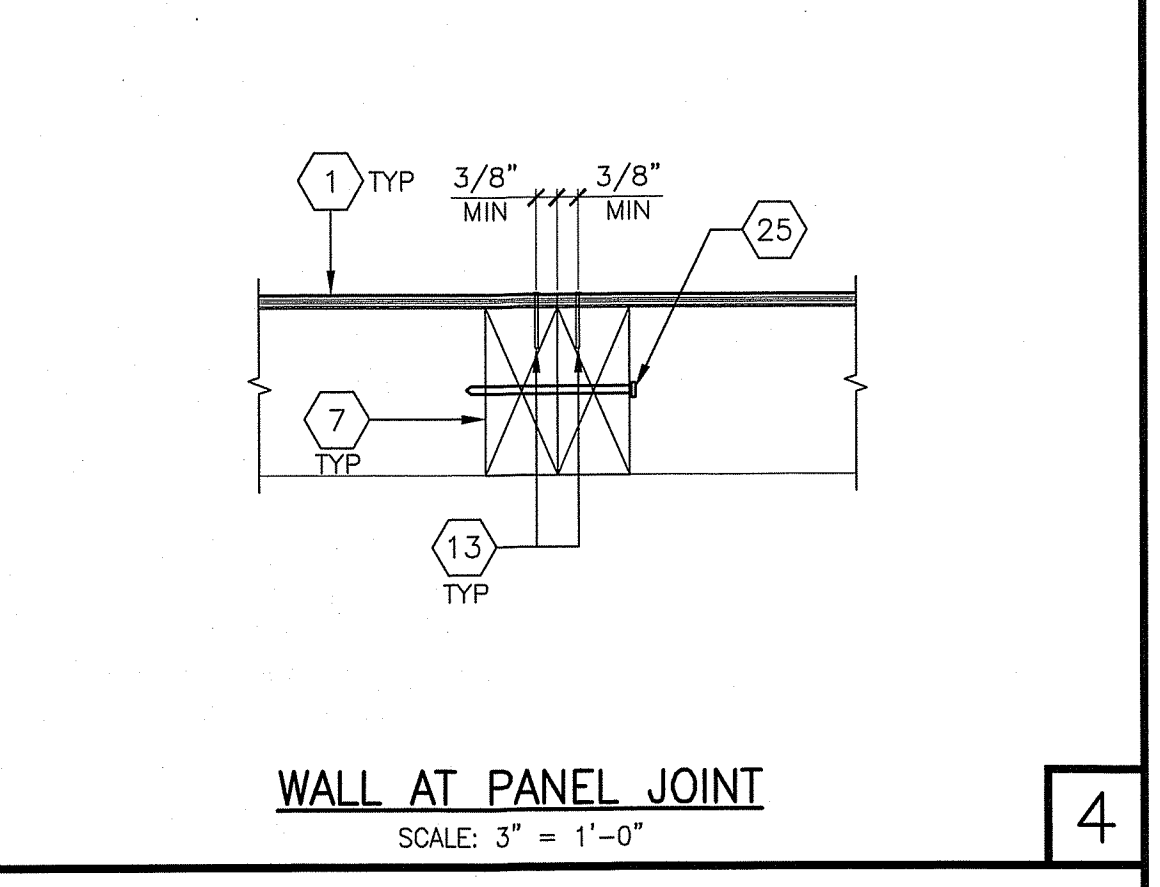
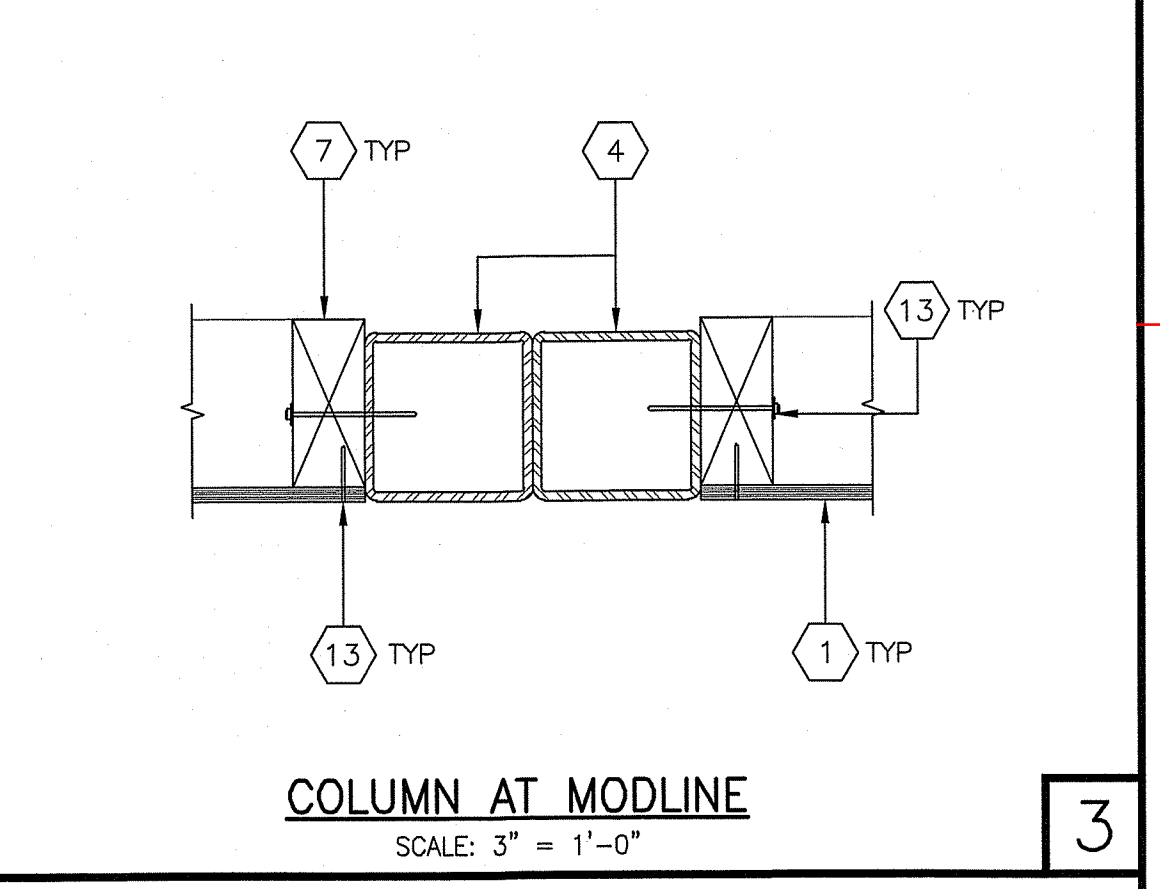
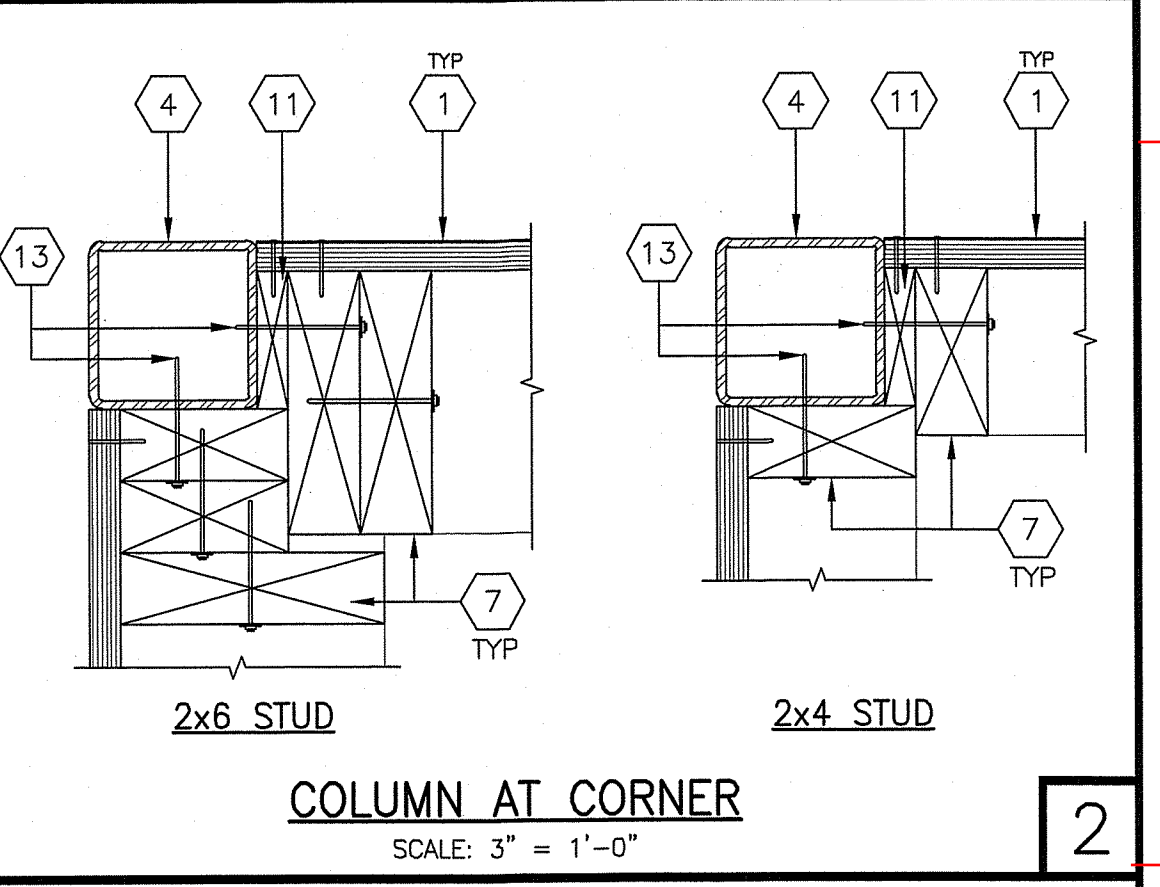
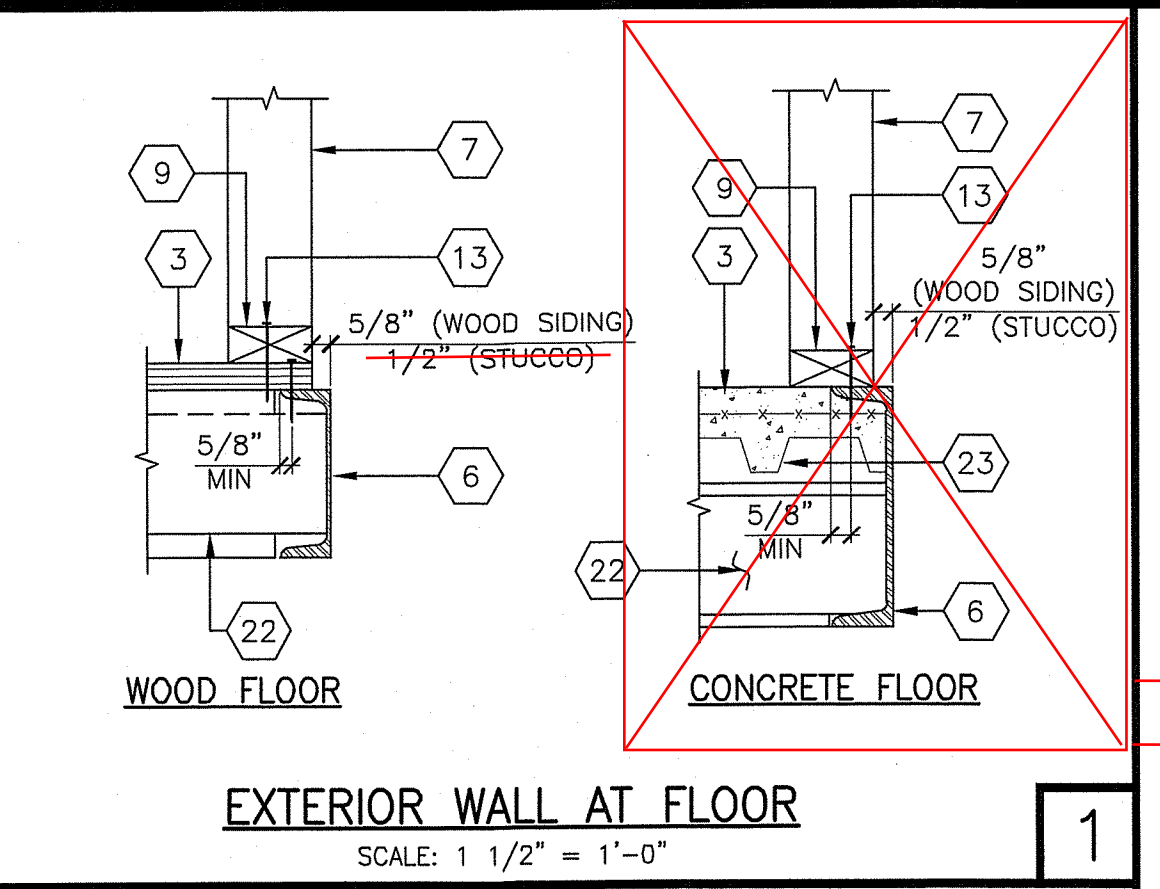
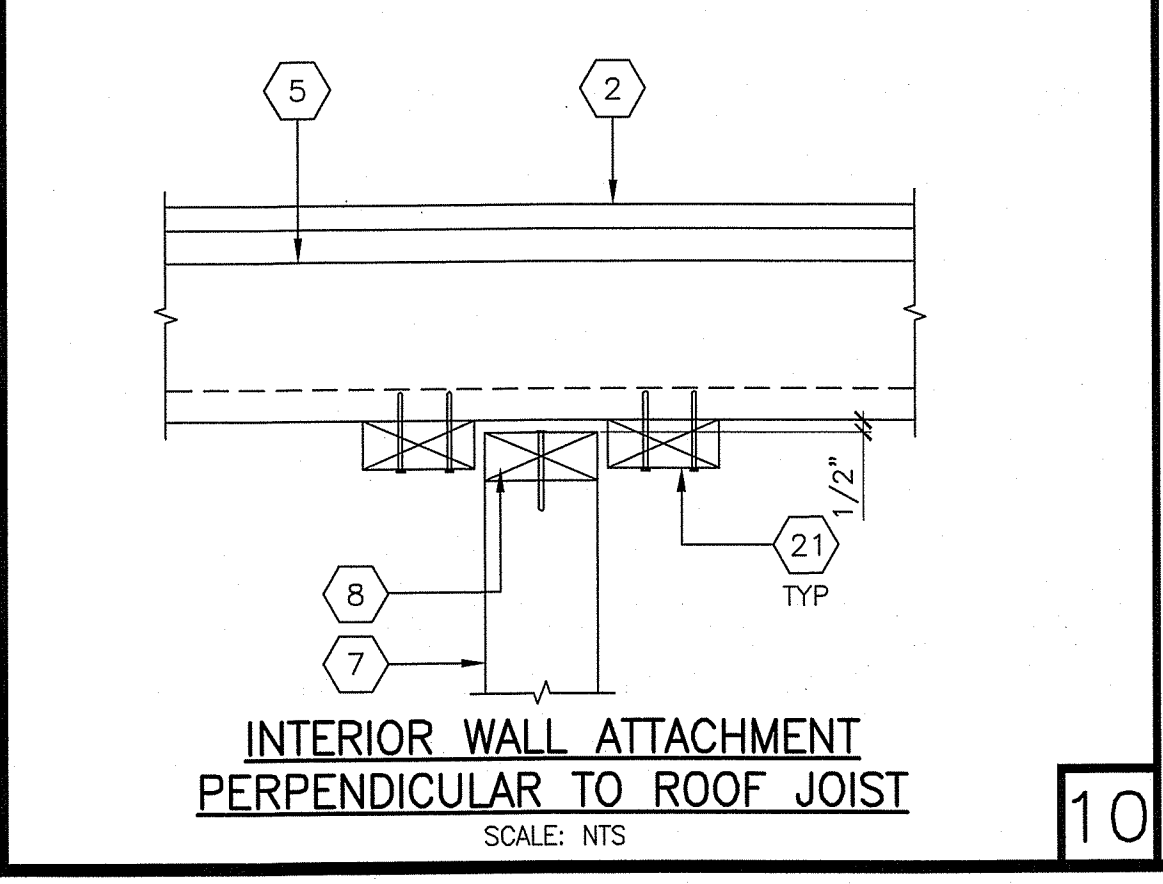
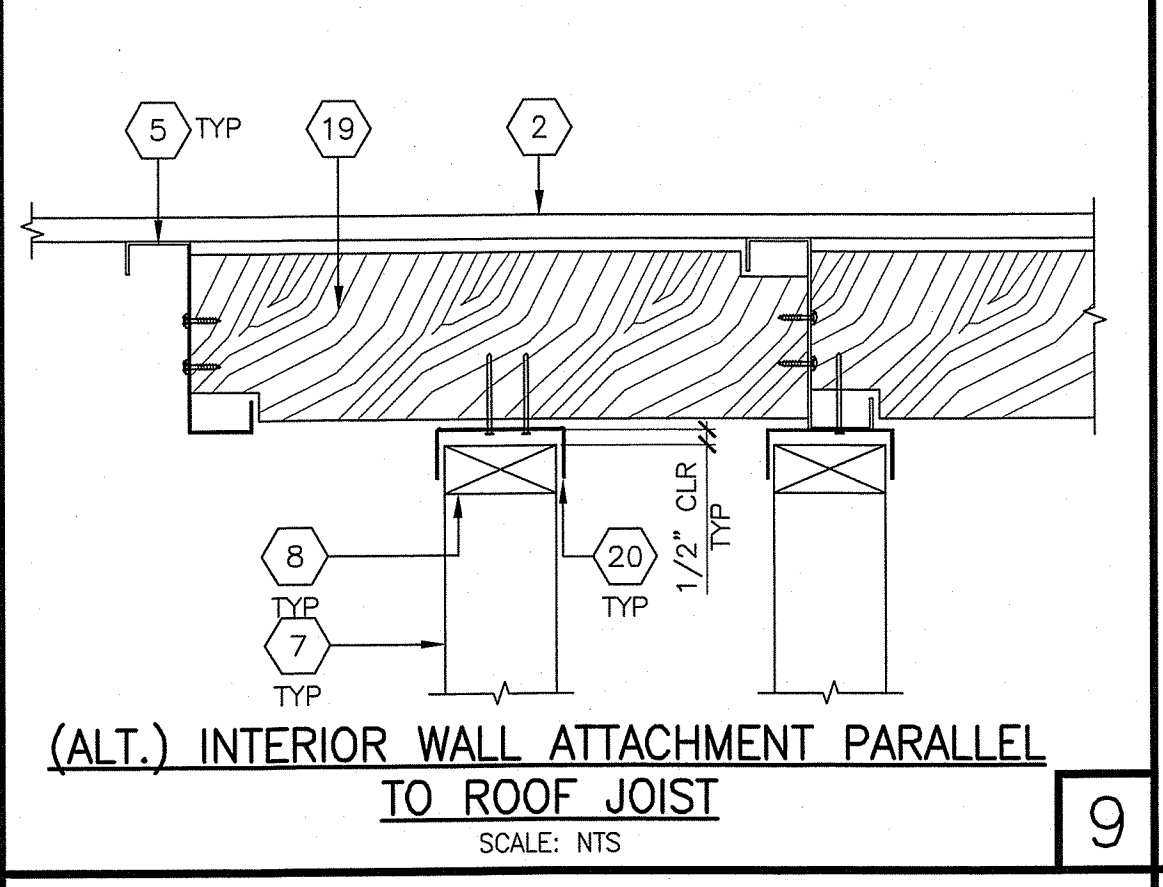
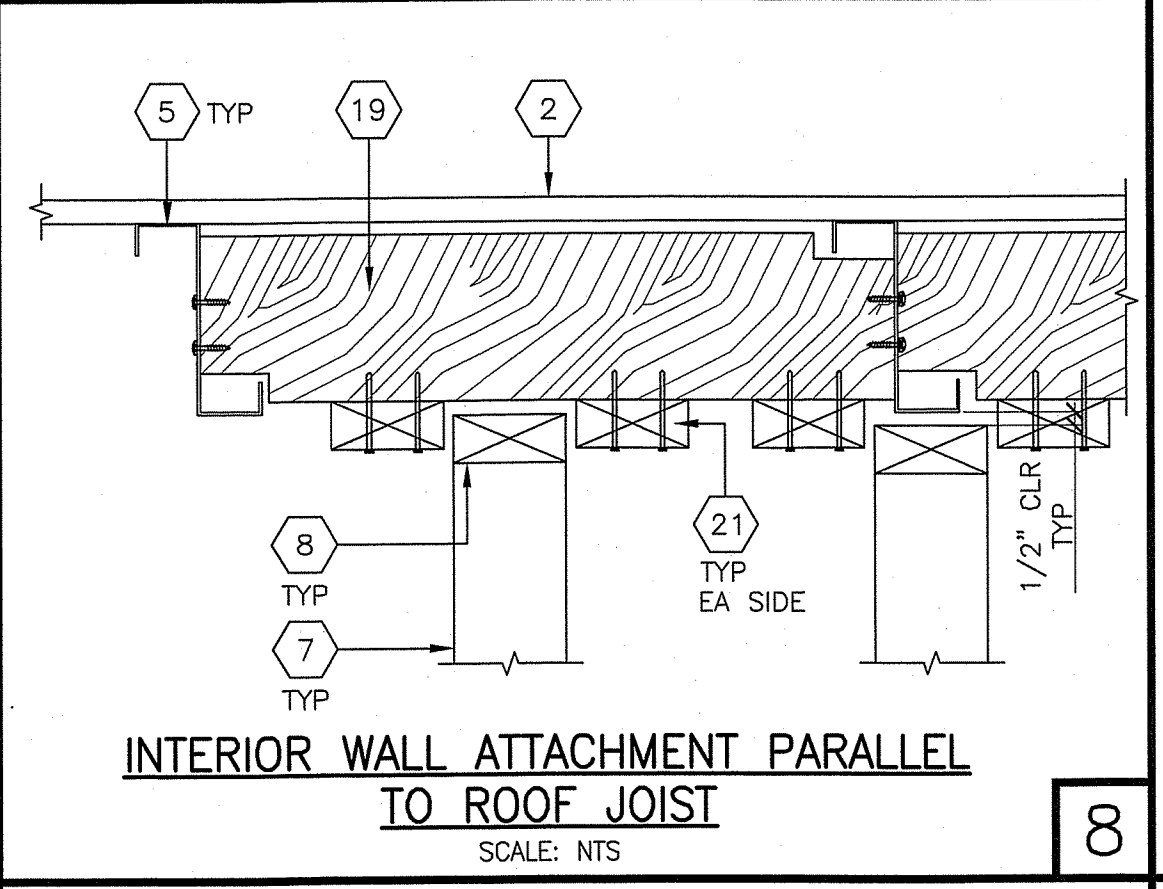
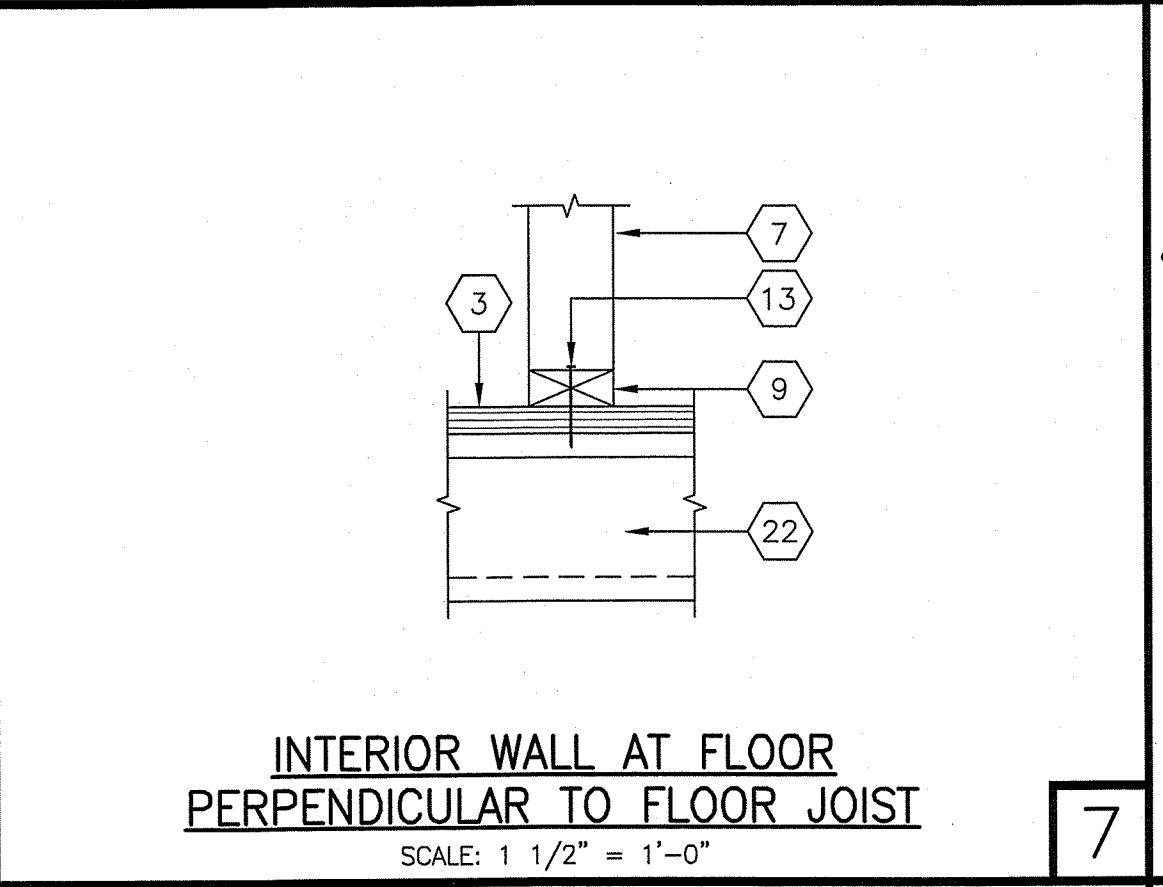
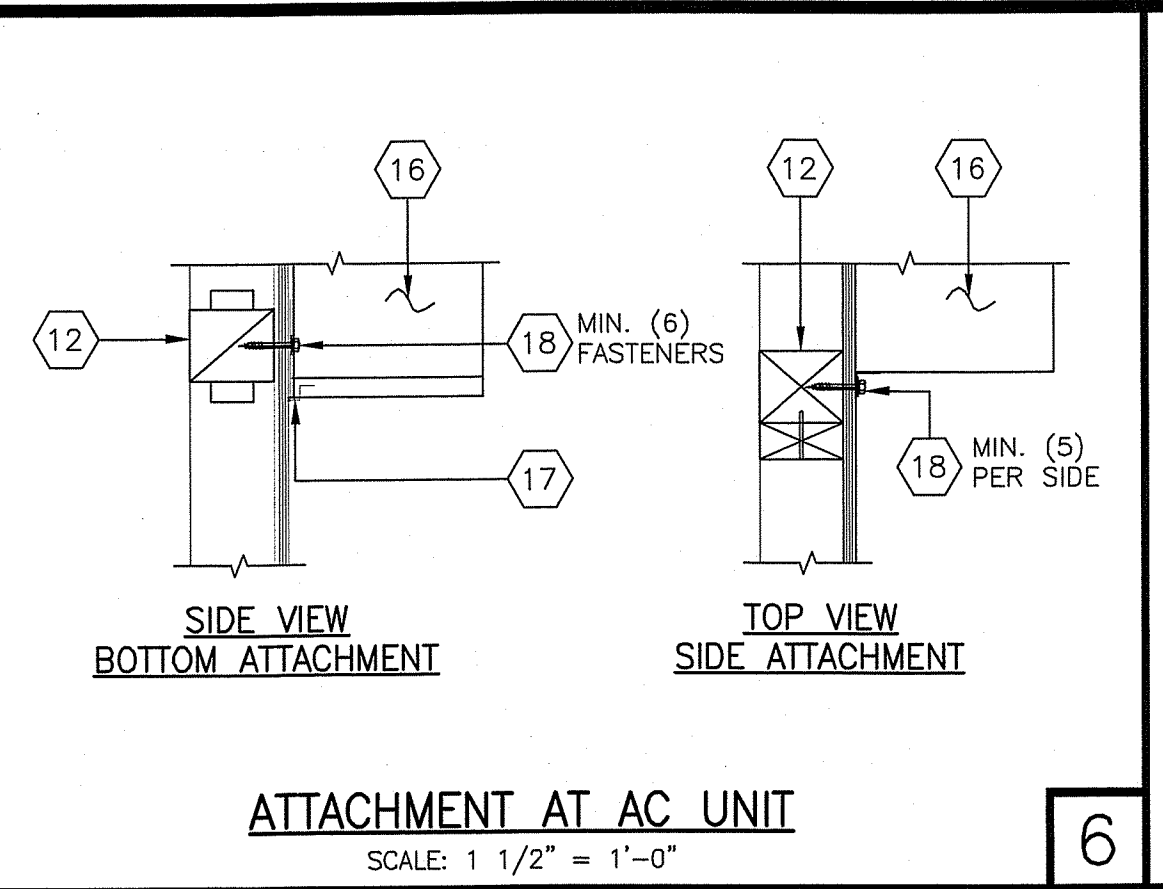
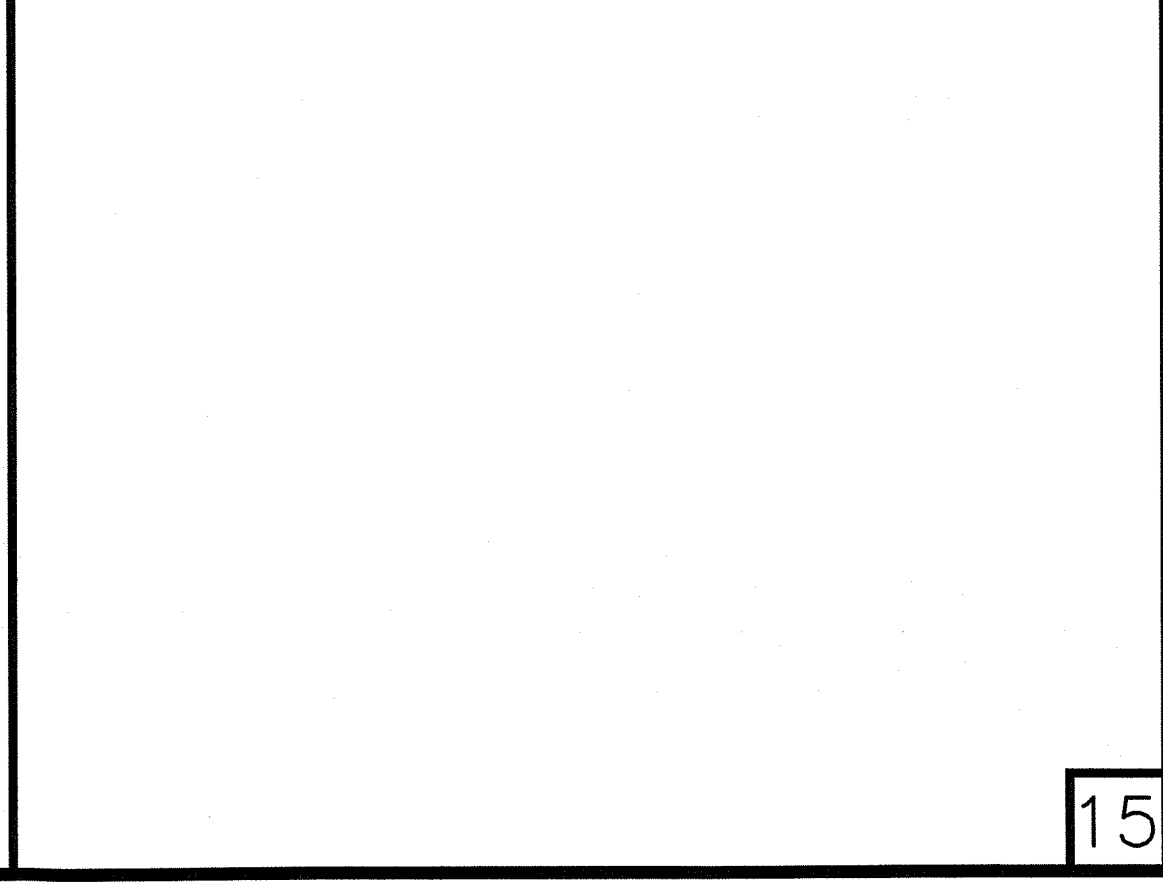
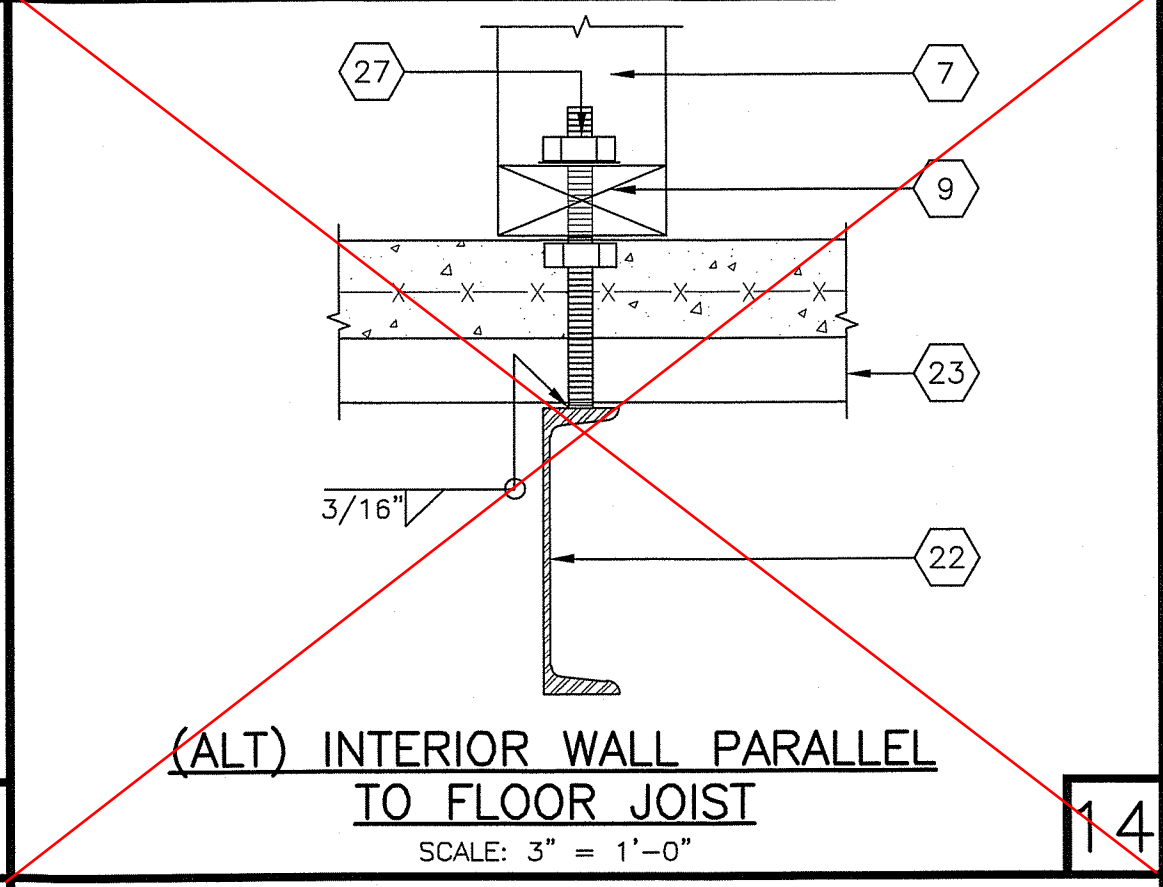
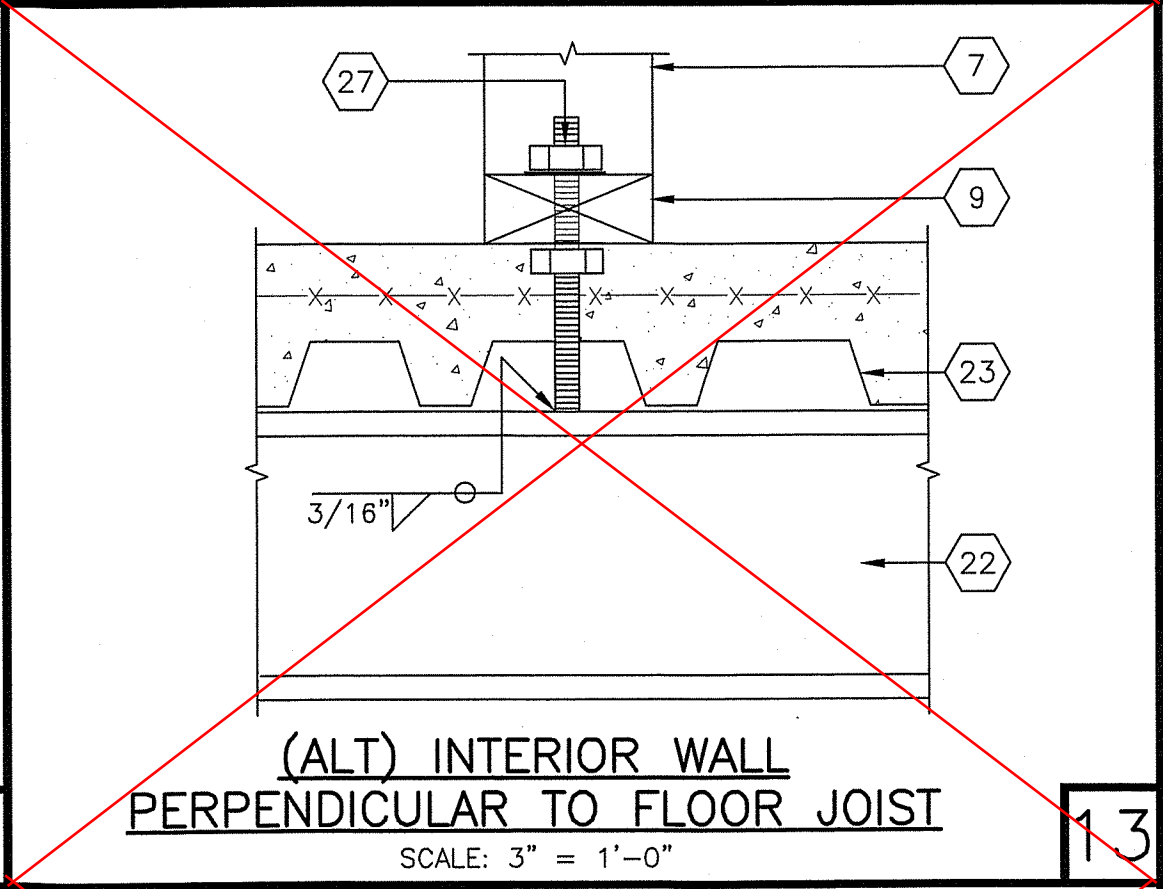
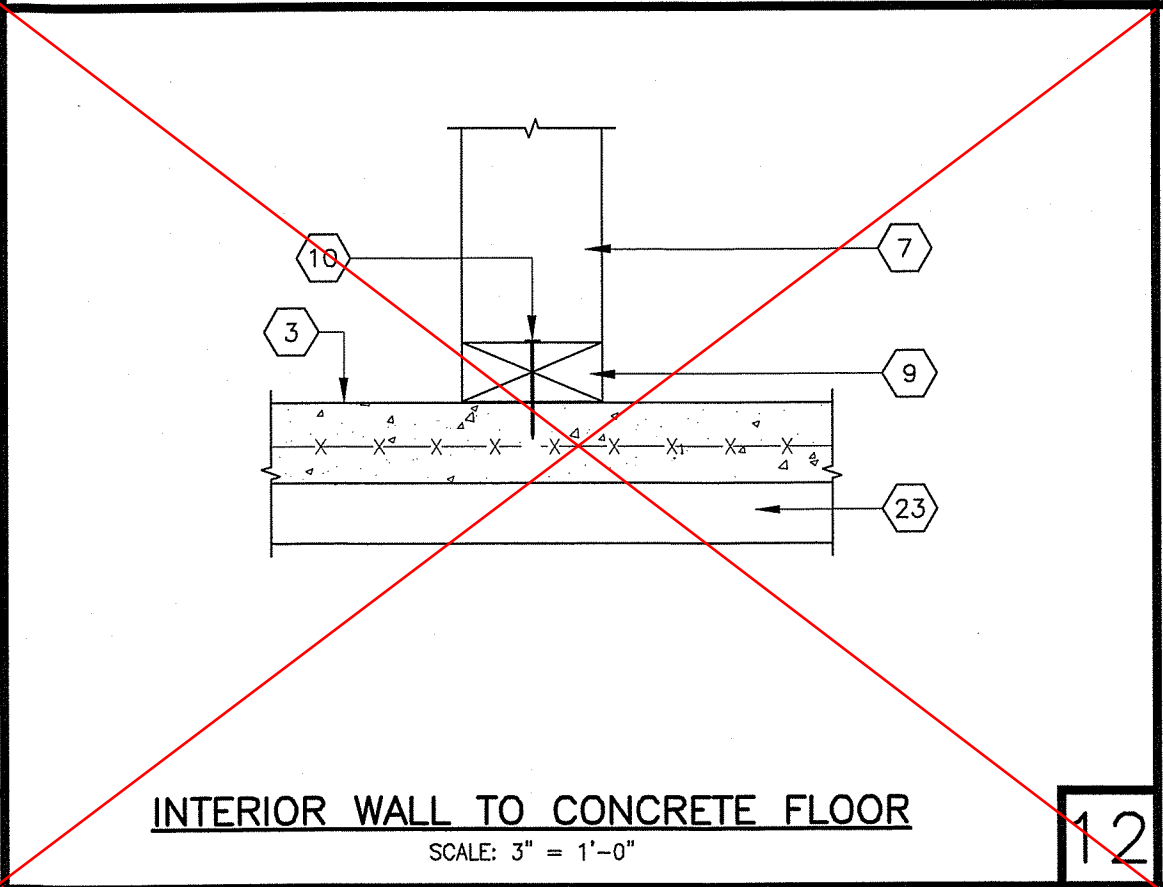
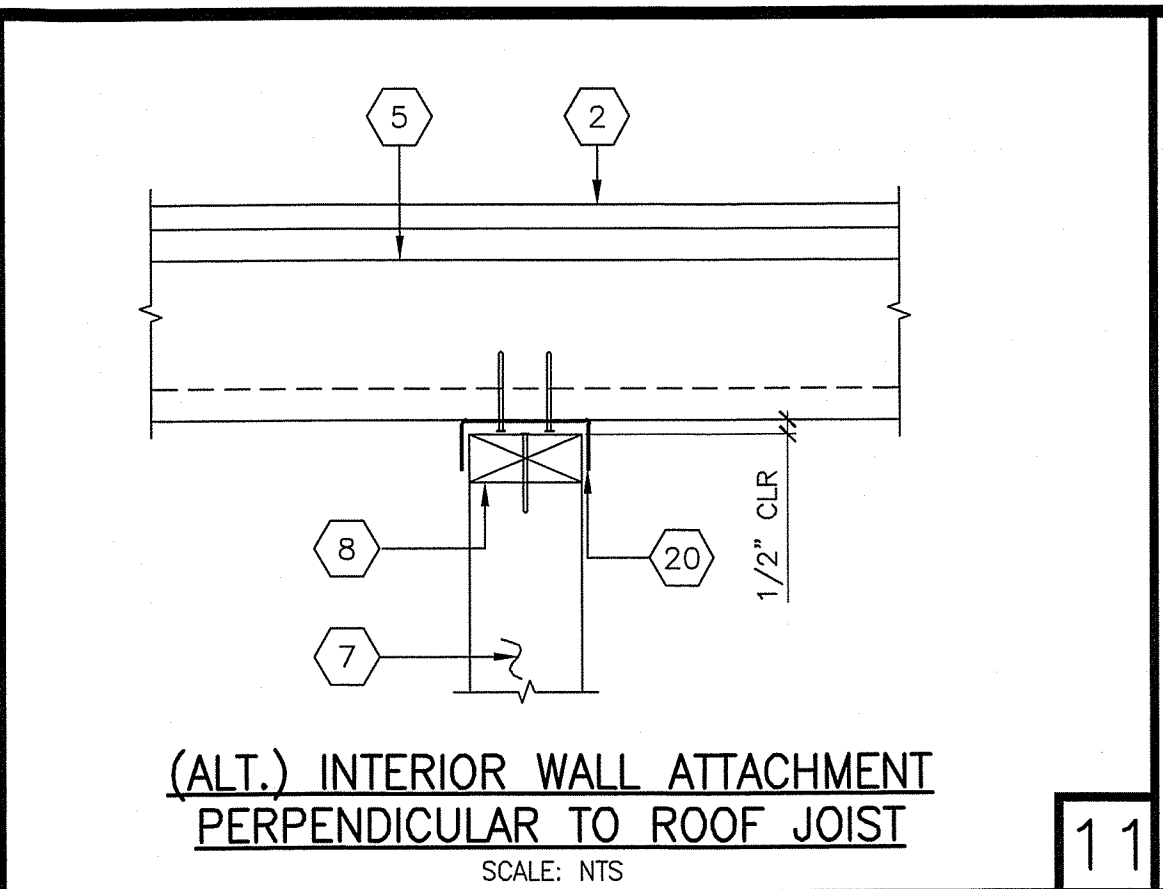
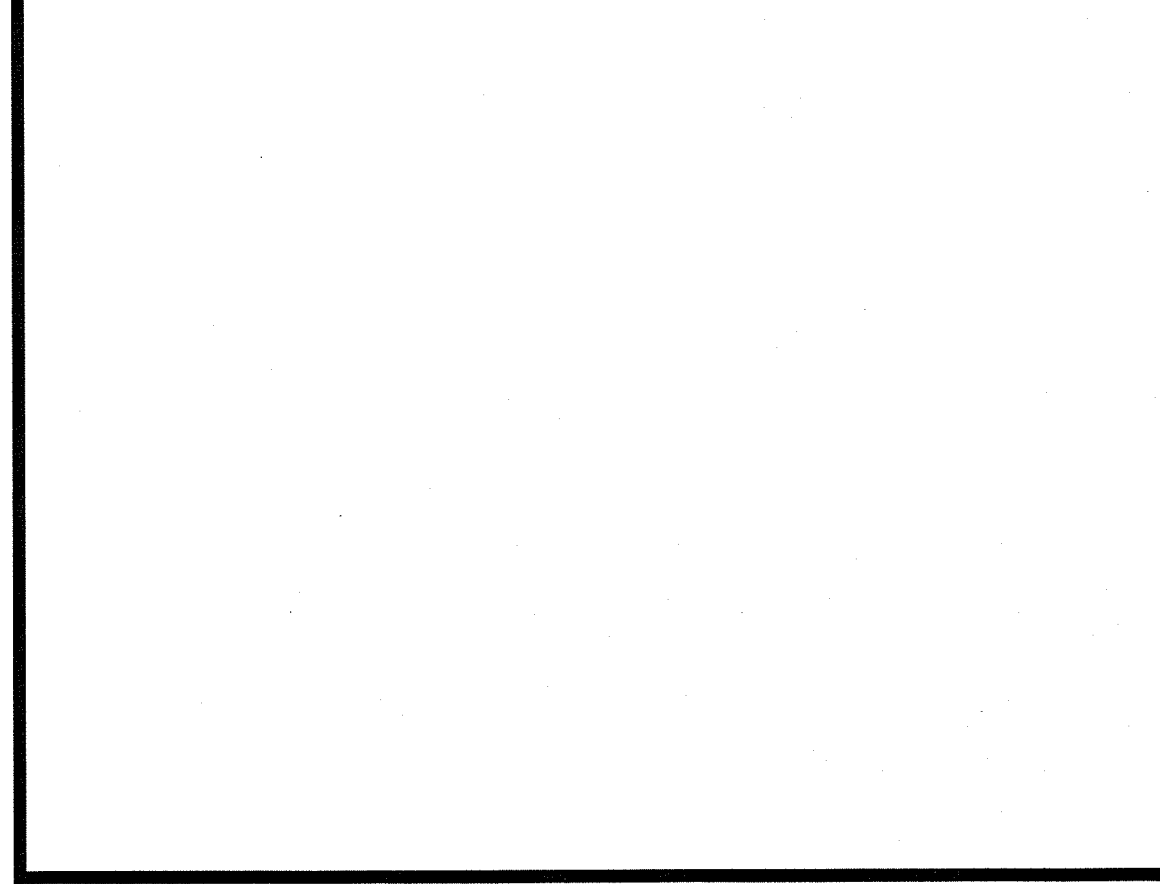
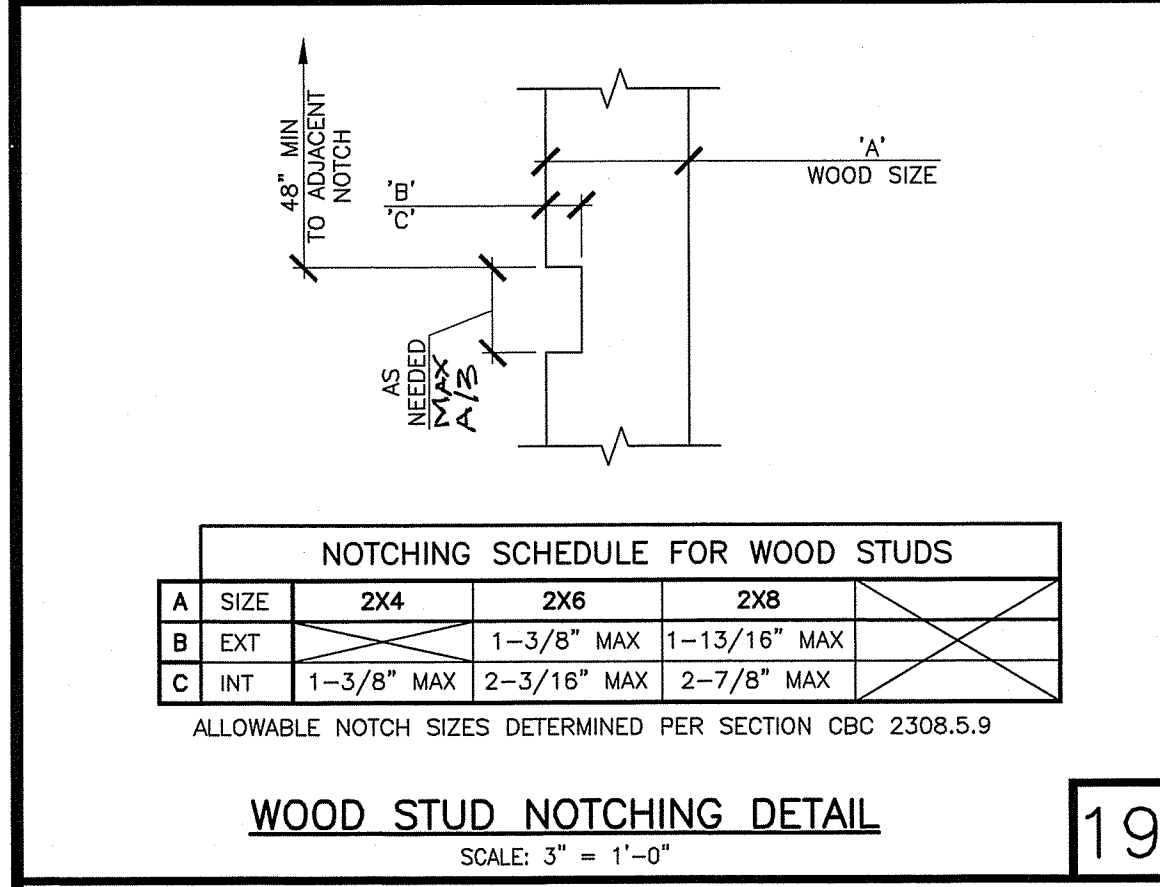
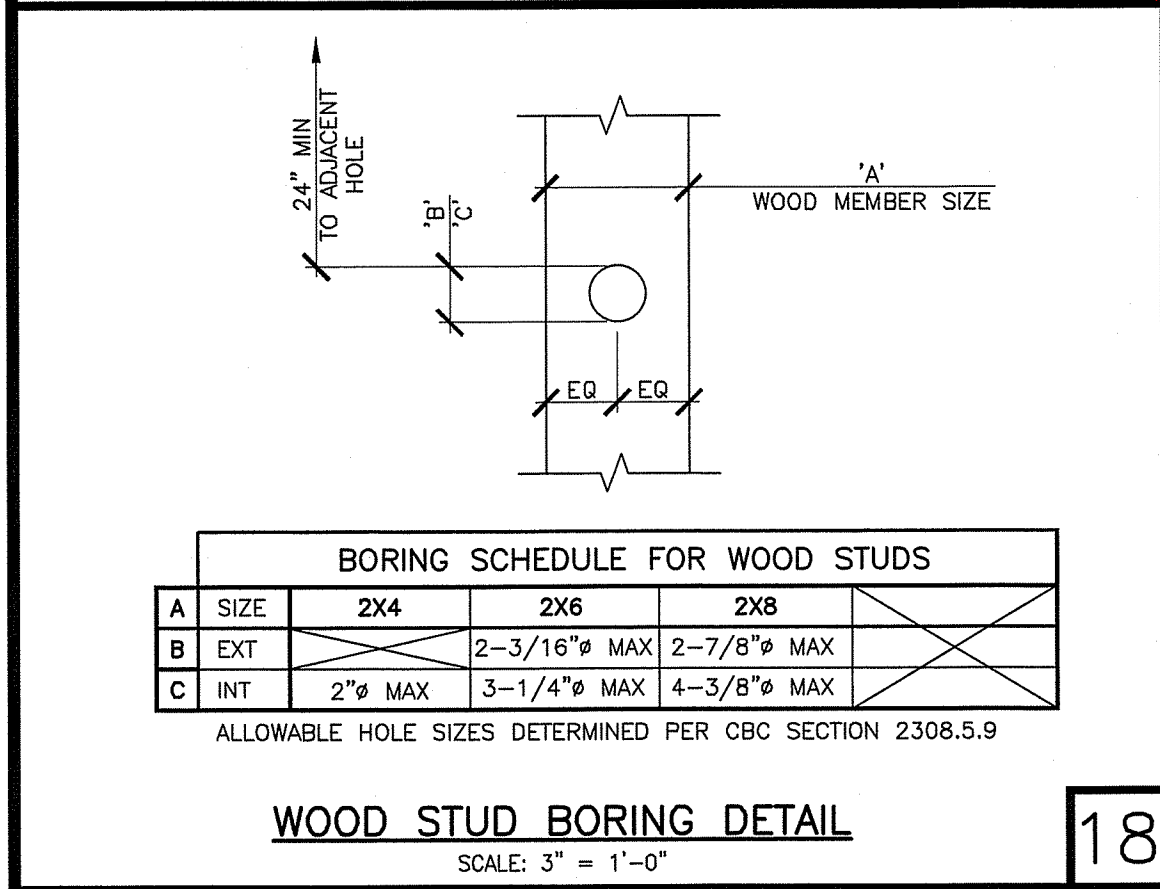
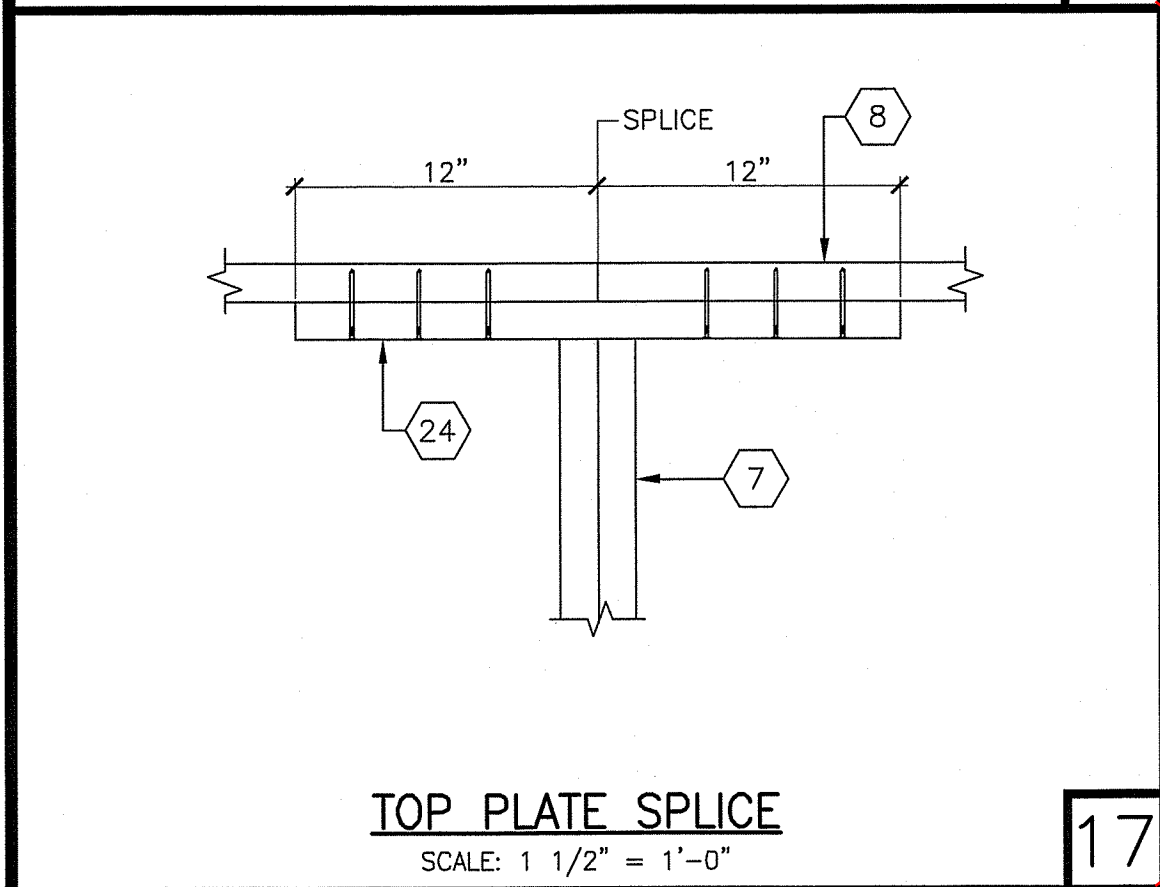
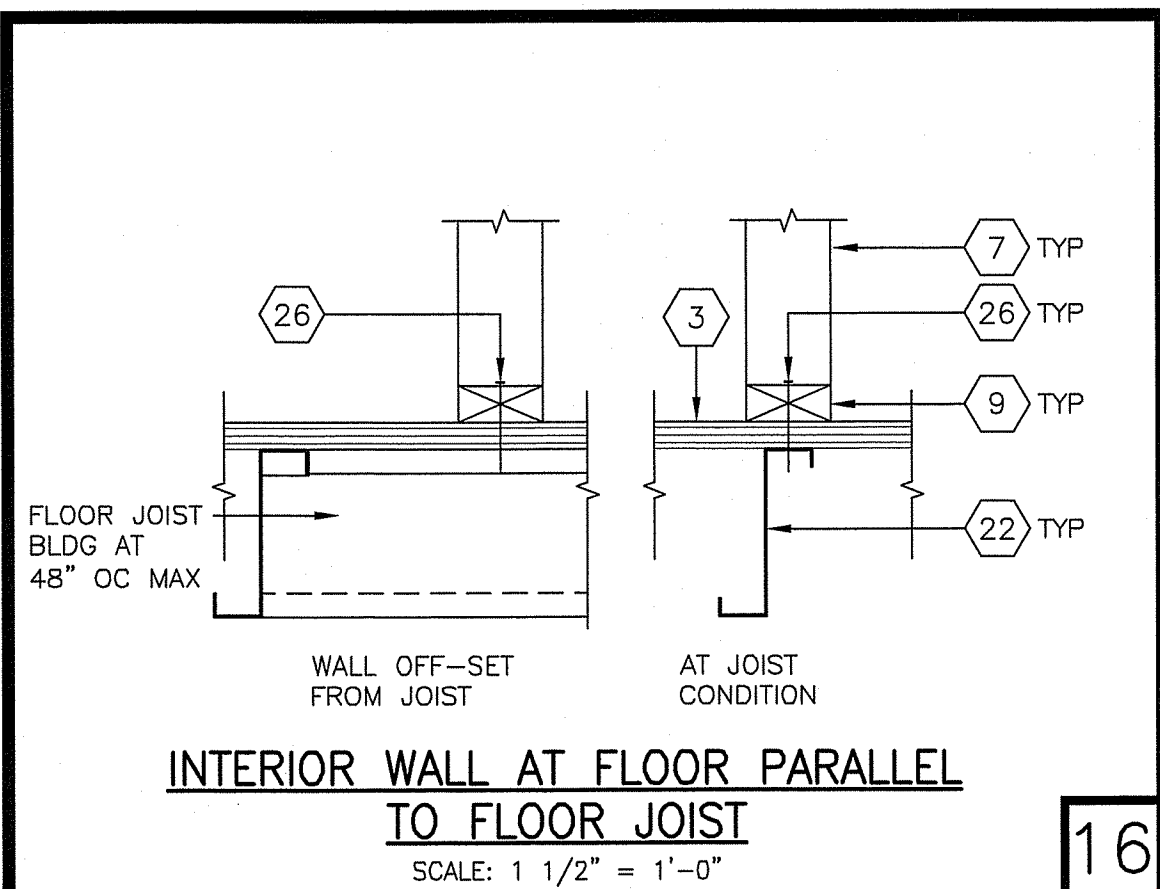
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
AC ☒ FLS ☒ 30  
DATE: DEC 14 2018

REVISIONS

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER

**S2.2**





### KEY NOTES

- EXTERIOR PLYWOOD SIDING/SHEATHING (SEE WALL FRAMING ELEVATION SHEET)
- ROOF DIAPHRAGM (SEE STRUCTURAL ROOF FRAMING PLAN)
- FLOOR SYSTEM (SEE FLOOR FRAMING SHEET)
- STEEL COLUMN
- STEEL ROOF JOIST (SEE STRUCTURAL ROOF FRAMING PLAN)
- PERIMETER FLOOR FRAME (SEE STRUCTURAL FLOOR FRAMING PLAN)
- 2x FULL HEIGHT STUDS
- 2x TOP PLATE
- 2x BOTTOM PLATE (PRESSURE-TREATED @ CONCRETE FLOOR OPTION)
- "HILTI" X U-62-0.167" X 2-7/16" SHOT PIN AT 24" OC MAX
- CONTINUOUS SPACER AS REQUIRED
- 4x POST / BLOCKING. SEE WALL FRAMING ELEVATION SHEET
- FASTENERS (SEE WALL FRAMING SCHEDULE ON WALL FRAMING ELEVATION SHEET)
- ~~CWL L-3-1/2" X 3-1/2" X 1/4" X 6" LONG ANGLE @ 24" OC STAGGERED, ATTACHED TO WALL AND METAL FLOOR DECK WITH (2) #10 SMS, 24" MIN FROM END OF WALL OR SPLICE~~
- TRUSS BOTTOM CHORD
- WALL MOUNTED AC UNIT (SEE MECHANICAL PLANS)
- 16 GAx24" LONG STEEL BOTTOM BRACKET AT AC
- 3/8" X MIN 3-1/2" LAG BOLTS, QUANTITY INDICATED PER DETAIL
- 2x6 BLOCKING @ 48" OC W/ (2) #10 X 1 1/2" WS EACH END OF BLOCKING, NOTCH AS REQUIRED
- CONTINUOUS C-3 1/2" X 1 5/8" X 20 GA TRACK, SECURED TO MEMBERS W/ (2) #10 STS AT ROOF JOIST OR (2) 16d NAILS INTO 2x BLOCK TYP
- CONTINUOUS 2x BLOCKING @ EACH SIDE OF TOP PLATE WITH (2) 16d NAILS TO EACH BLOCKING @ 48" OC OR (2) #10 STS TO EACH JOIST TYPICAL
- FLOOR JOIST MEMBER OR BLOCKING (SEE FLOOR FRAMING PLAN)
- ~~METAL FLOOR DECK~~
- 2x BLOCK AT SPLICE LOCATION. SECURE 2x BLOCK WITH (6) 16d NAILS AT EACH SIDE.
- 16d NAILS @ 24" O.C. AT DOUBLE STUDS. SEE GENERAL NOTE 9 ON SHEET S3.2
- MIN #10 X 1-1/2" MIN SDS AT 16" OC MAX WHERE STEEL JOIST OCCURS. USE #10 X 1-1/2" MIN WOOD SCREW ELSEWHERE
- ~~1/2" THREADED ROD WELD TO FLOOR JOIST OR BLOCKING. FASTEN TO SILL PLATE WITH (2) NUTS AND (2) WASHERS @ 48" O.C. MAX.~~

### GENERAL NOTES

- SEE WALL FRAMING ELEVATION SHEET S3.2 FOR NAILING SCHEDULE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
INCORPORATED

**AURORA MODTECH**  
DESIGNS

CONTRACTORS LICENSE #B37357

NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 665-9800  
FAX: (559) 665-5700  
WEBSITE: WWW.GDMV.NET

SOUTHERN CALIFORNIA DIVISION  
1600 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3682  
WEBSITE: WWW.GDMV.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

**WALL FRAMING DETAILS WOOD STUDS**

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
FILE # PC-2  
PC 02-116677  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2018

REVISIONS

NO.	DESCRIPTION

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER

**S3.0**



WOOD STUD WALL FRAMING SCHEDULE				
EXTERIOR	GRADE	SIZE	SPACING	BLDG CORNER SPACING
WOOD SIDING	HF #2/DF #2	SHEET A0.2	16" OC	12" OC WITHIN 72" OF CORNER
STUCCO	DF #2	SHEET A0.2	12" OC	8" OC WITHIN 72" OF CORNER

WOOD STUD WALL OPENING SCHEDULE					
OPENING	FULL HT/JAMB STUD	TRIMMER	HEADER	SILL	BLOCKING
WINDOWS					
8'x4'	STUCCO (4) EACH SIDE [**]	(1) EACH SIDE	(3) FLAT	(2) FLAT	-
WOOD	(3) EACH SIDE	(1) EACH SIDE	(3) FLAT	(2) FLAT	-
8'x2'	STUCCO (4) EACH SIDE [**]	(1) EACH SIDE	(3) FLAT	(2) FLAT	-
WOOD	(3) EACH SIDE	(1) EACH SIDE	(3) FLAT	(2) FLAT	-
6'x4'	STUCCO (4) EACH SIDE [**]	(1) EACH SIDE	(3) FLAT	(3) FLAT	-
WOOD	(2) EACH SIDE	(1) EACH SIDE	(3) FLAT	(2) FLAT	-
4'x4'	STUCCO (3) EACH SIDE	(1) EACH SIDE	(3) FLAT	(2) FLAT	-
WOOD	(2) EACH SIDE	(1) EACH SIDE	(3) FLAT	(2) FLAT	-
DOORS					
3'x7'	STUCCO (3) EACH SIDE	(1) EACH SIDE	(3) FLAT	-	-
WOOD	(2) EACH SIDE	(1) EACH SIDE	(3) FLAT	-	-
6'x7'	STUCCO (4) EACH SIDE [**]	(1) EACH SIDE	(3) FLAT	-	-
WOOD	(2) EACH SIDE	(1) EACH SIDE	(3) FLAT	-	-
AC					
ALL	(1) 4x4 POST EACH SIDE	-	(1) FLAT AT RETURN	(1) FLAT AT RETURN	4x4

WOOD STUD WALL FRAMING SCHEDULE		
TOP PLATE TO BTM BEAM	BTM PLATE TO CHANNEL (CONC FLRS)	JAMB STUD TO COLUMN
'HILTI' X-U 0.157" SHOT PIN AT 12" MAX OC PER ICC REPORT #ESR-2269	'HILTI' X-U 0.157" SHOT PIN AT 12" MAX OC PER ICC REPORT #ESR-2269 ALT: #12 MIN SPS AT 14" MAX OC, 8" MAX OC AT CORNERS	'HILTI' X-U 0.157" SHOT PIN AT 24" MAX OC PER ICC REPORT # ESR-2269
ALT: 1/2" MACHINE BOLTS AT 32" MAX OC	BTM PLATE TO PLYWOOD (PLYWOOD FLRS) #12 WOOD SCREWS AT 14" MAX OC, 8" MAX OC AT CORNERS	ALT: #12 STSMS AT 24" MAX OC

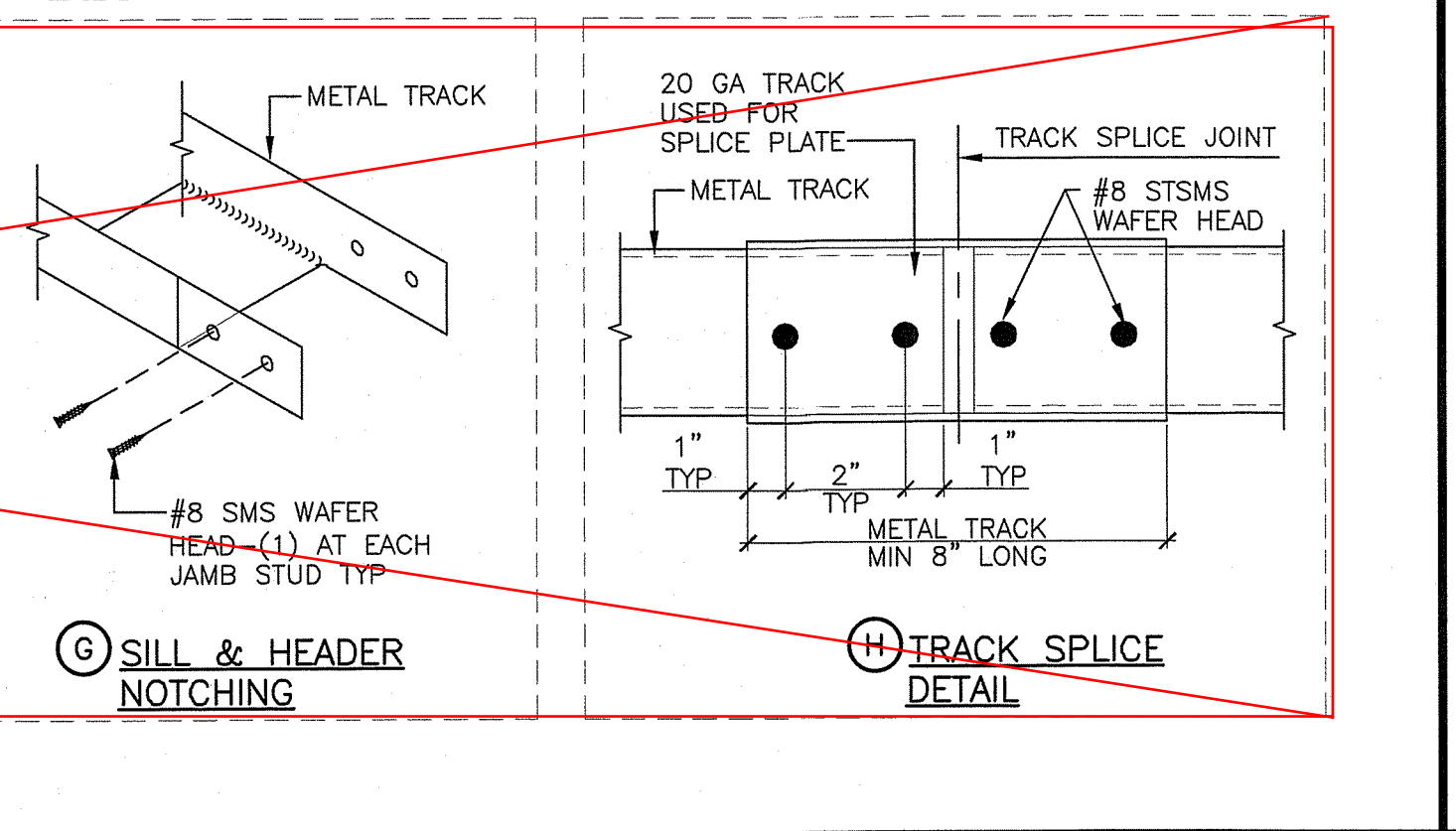
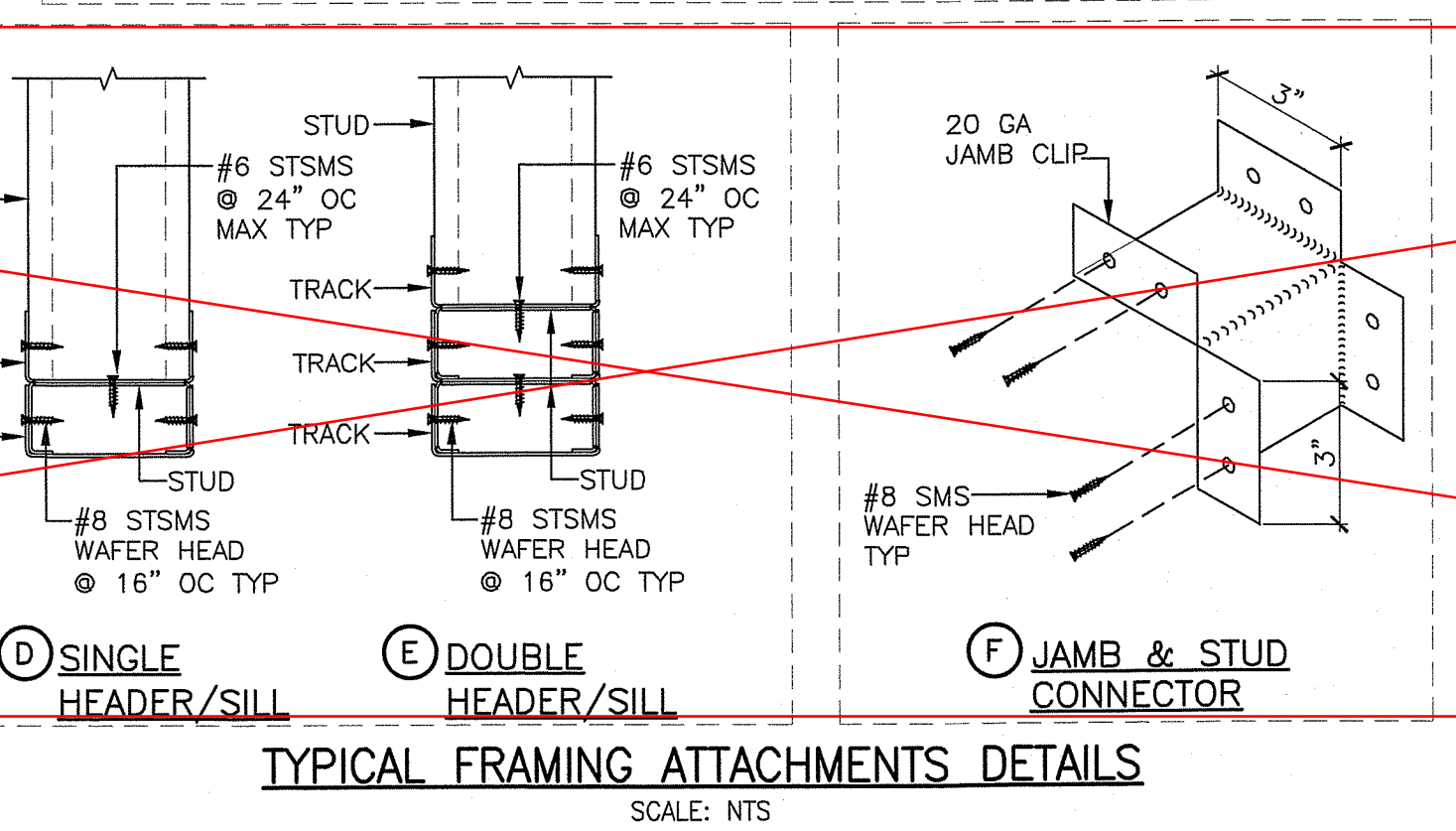
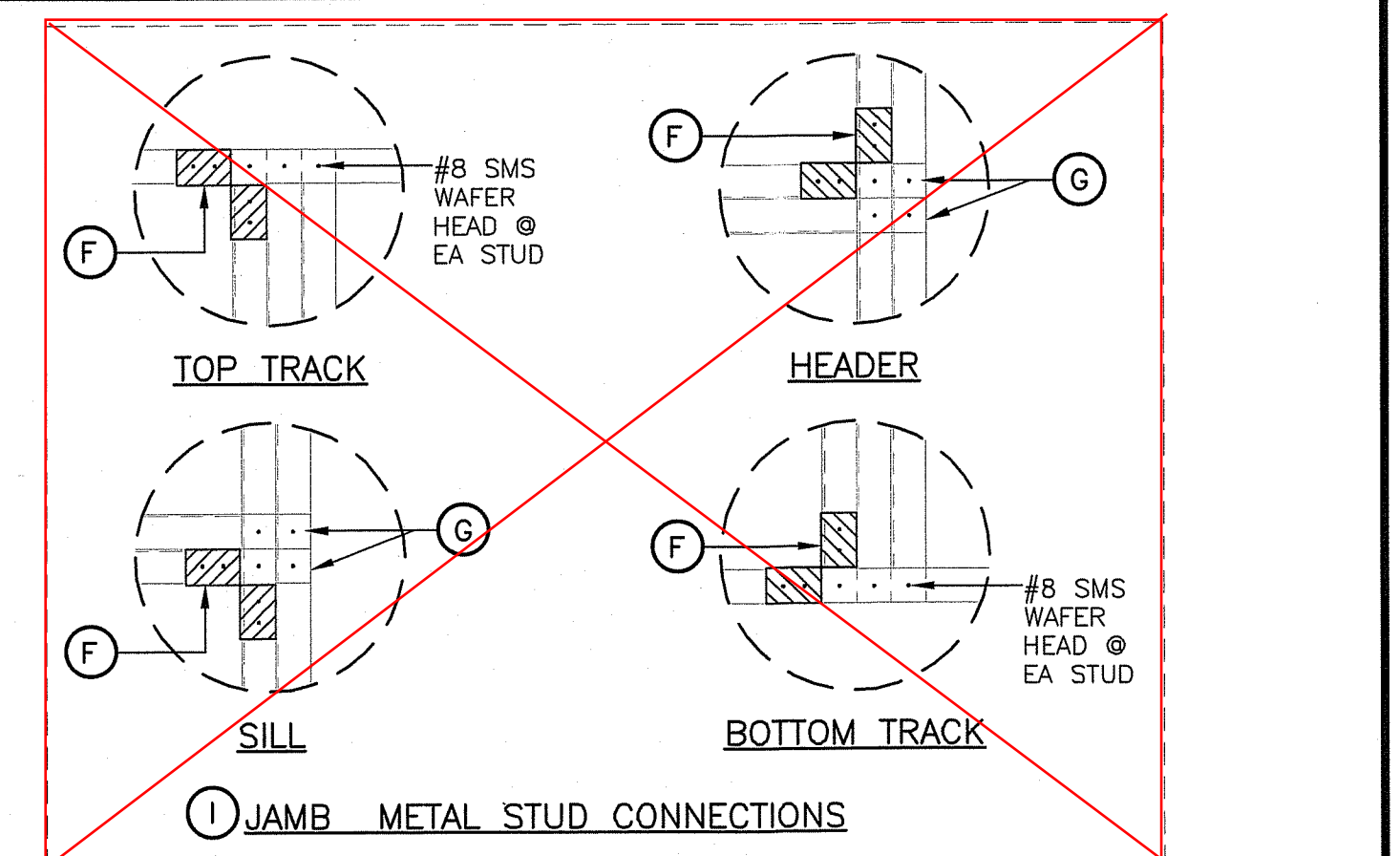
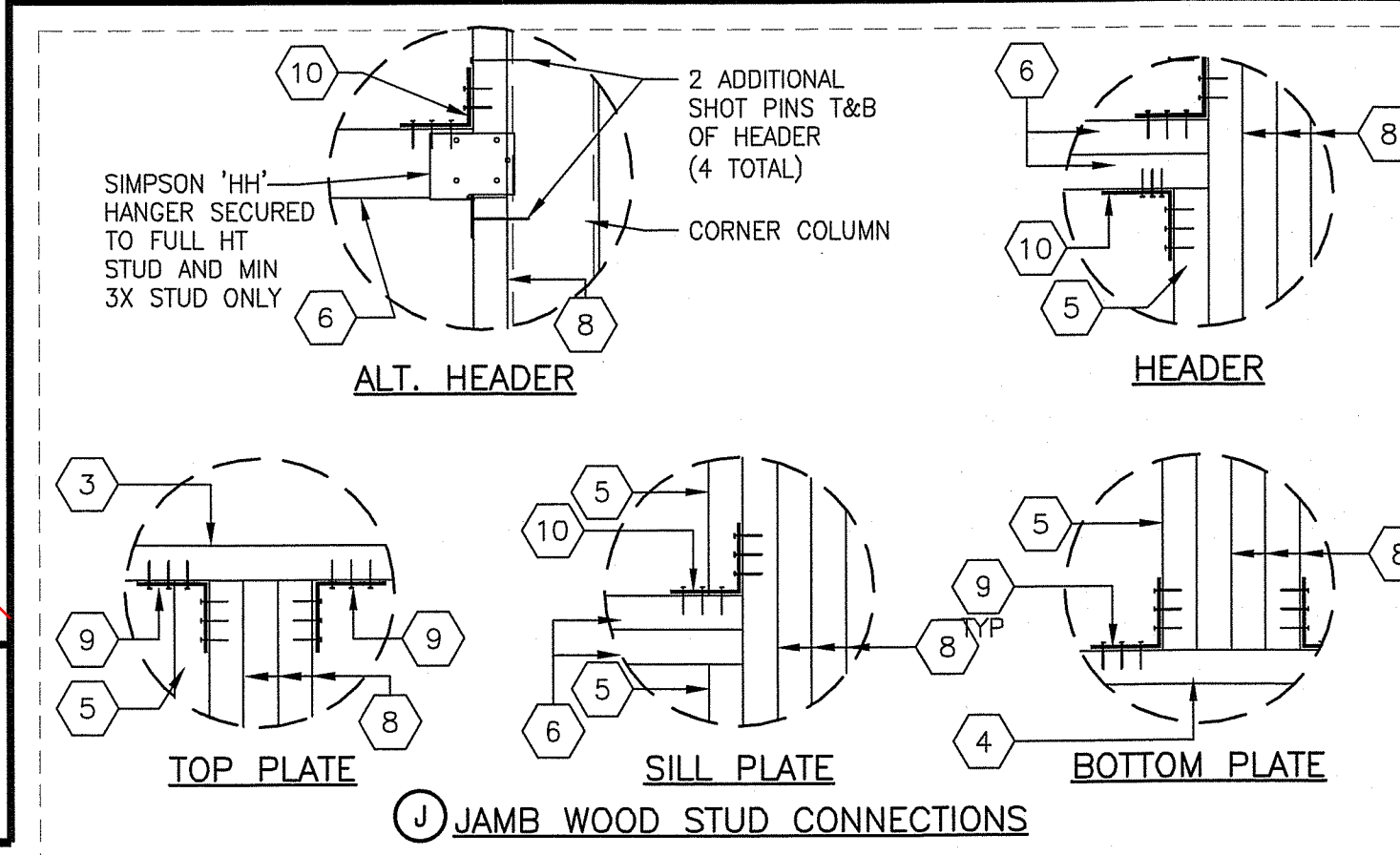
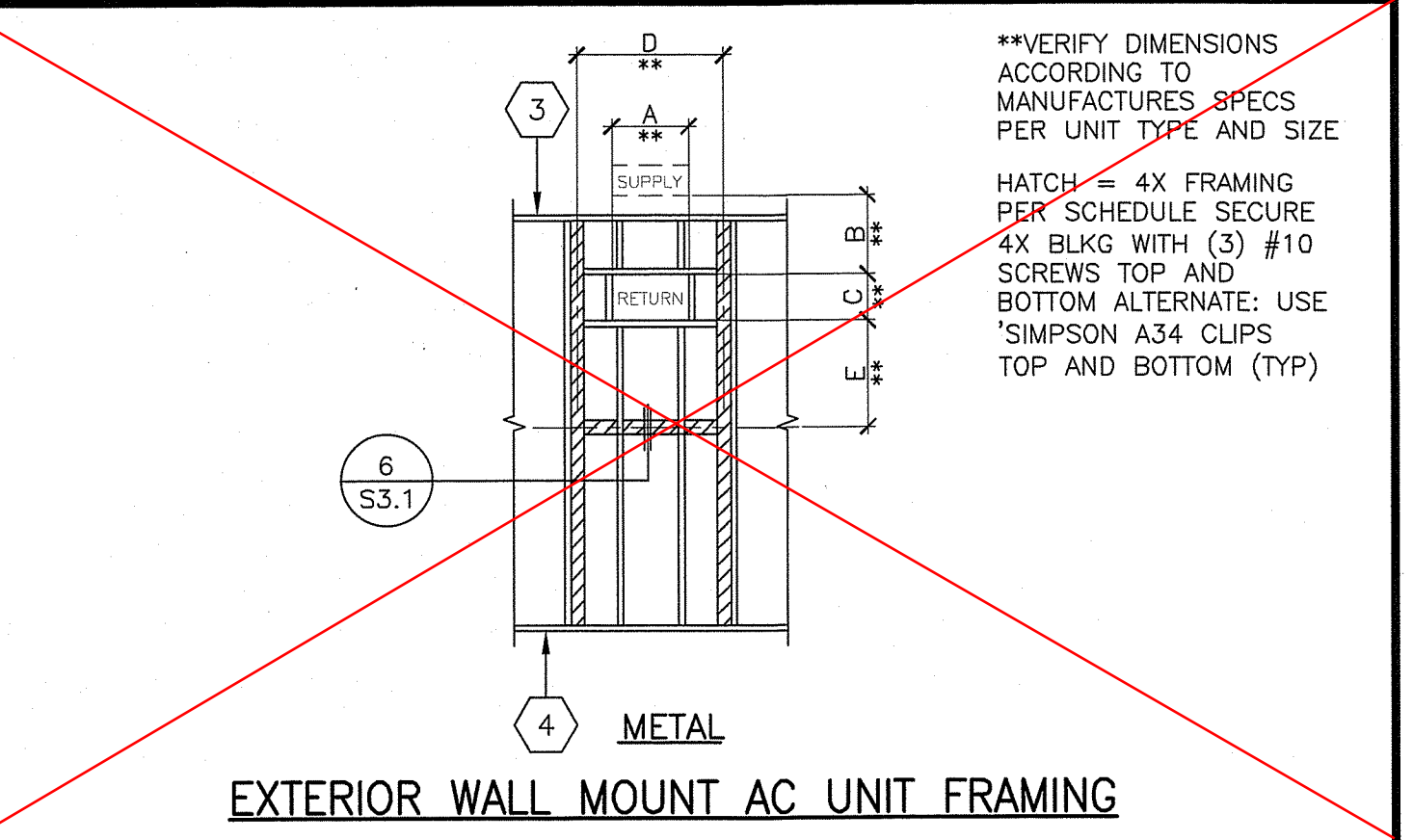
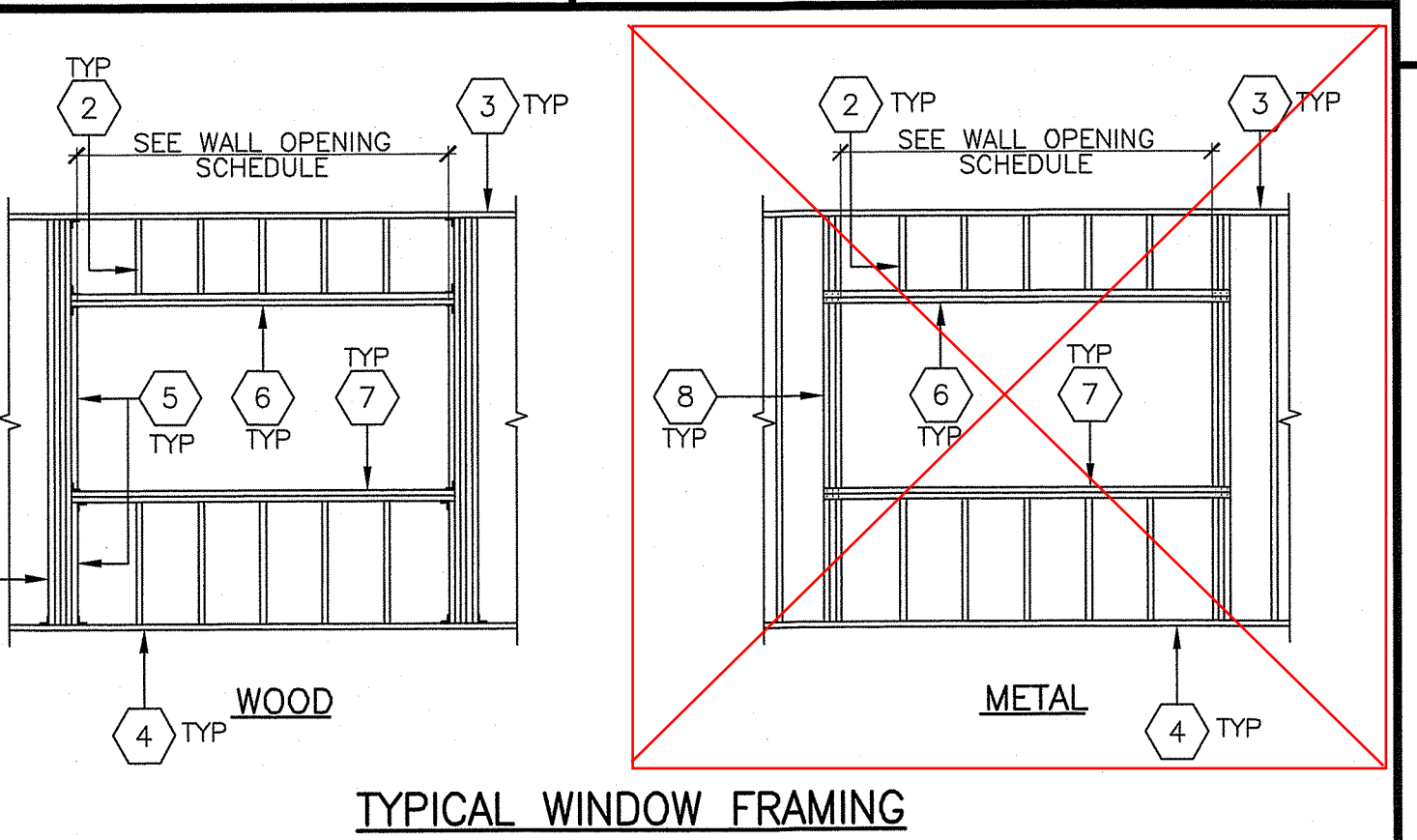
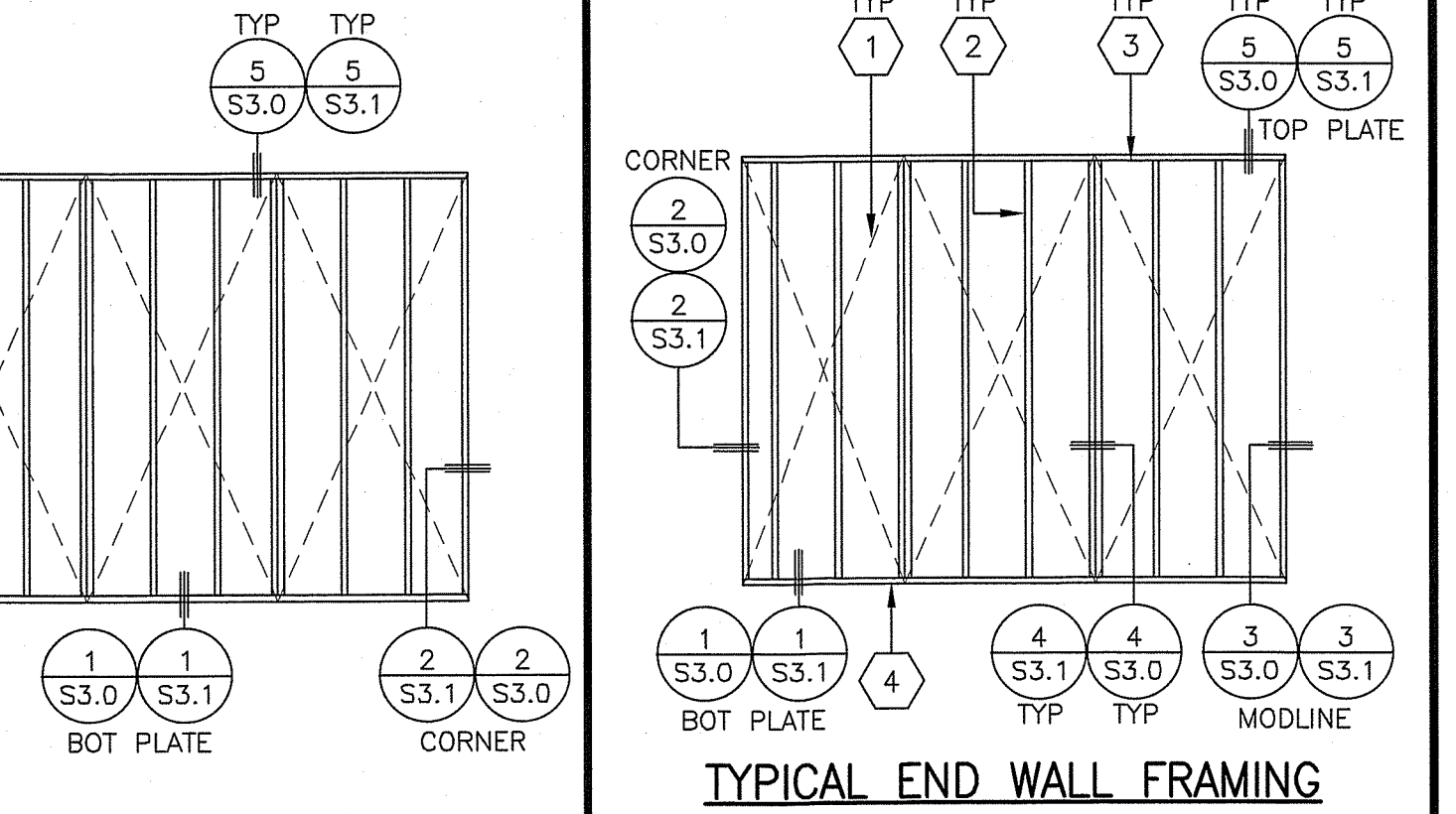
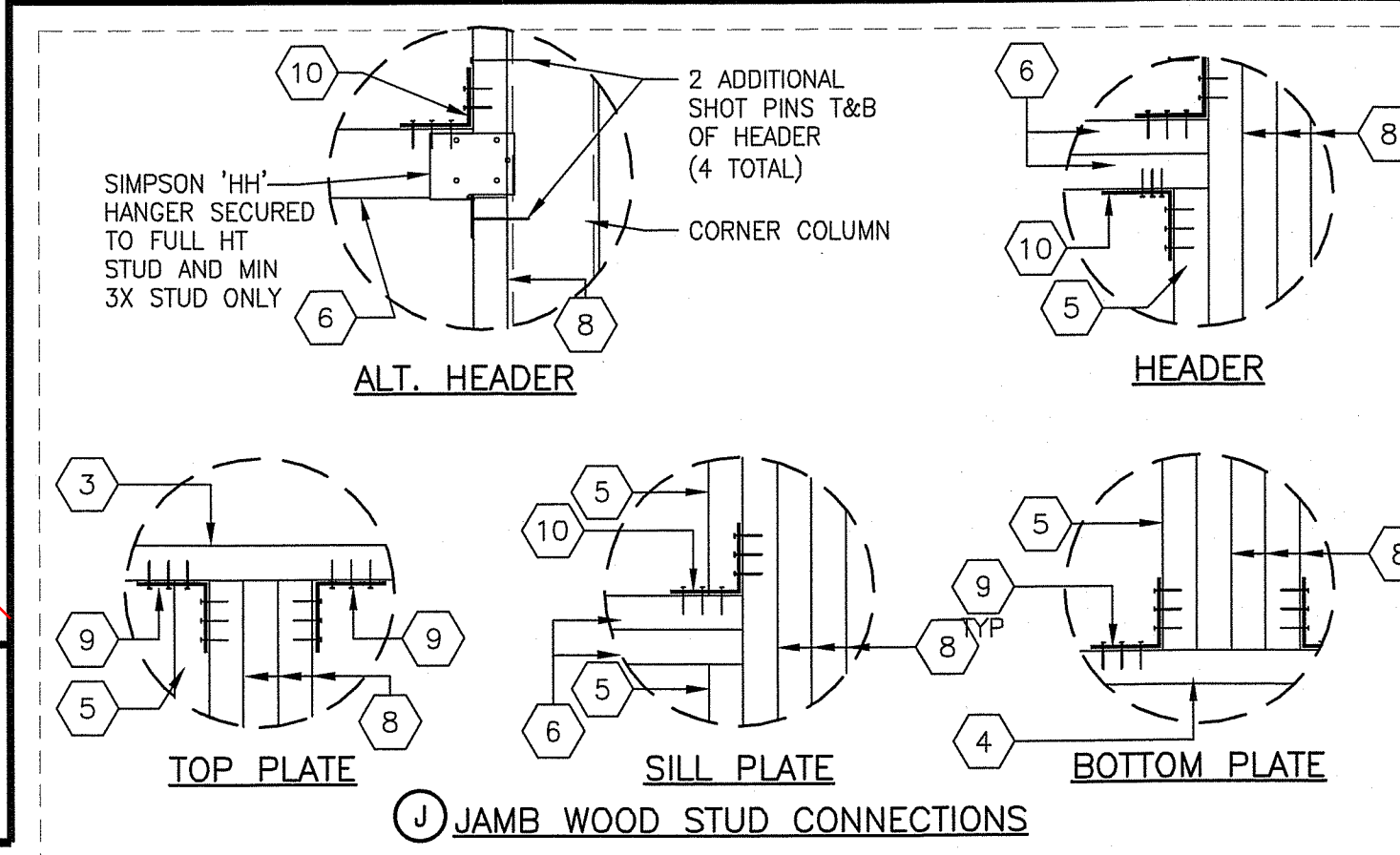
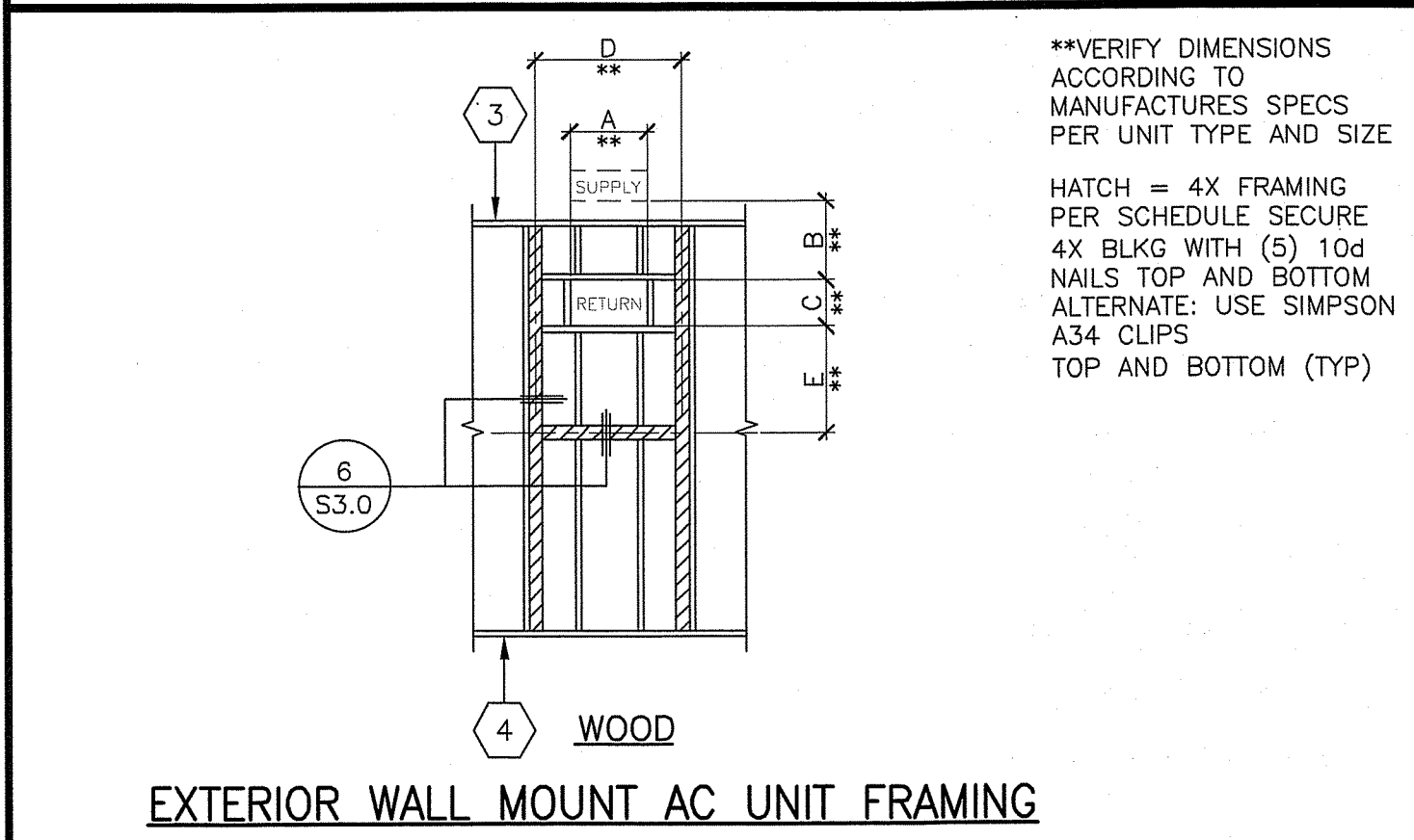
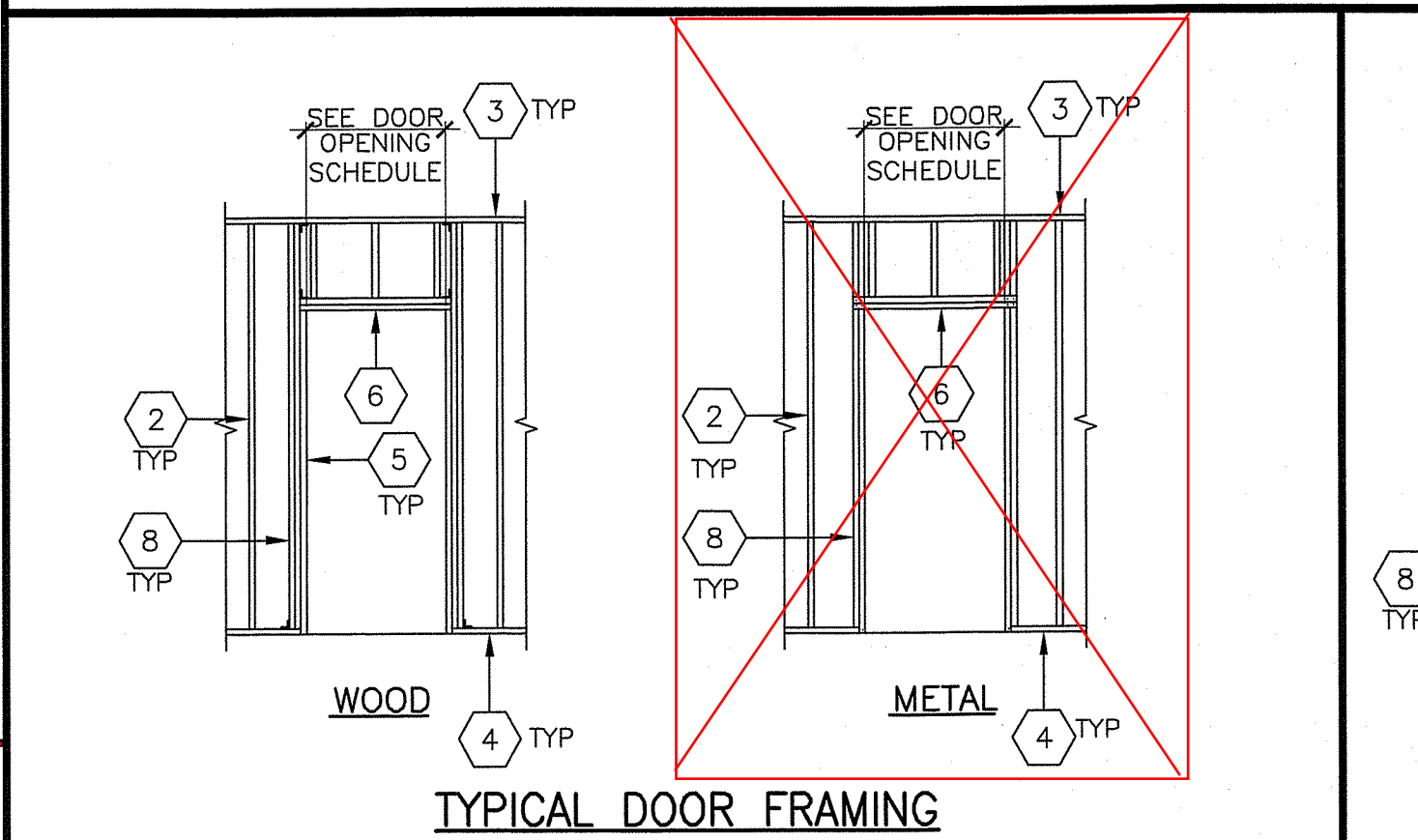
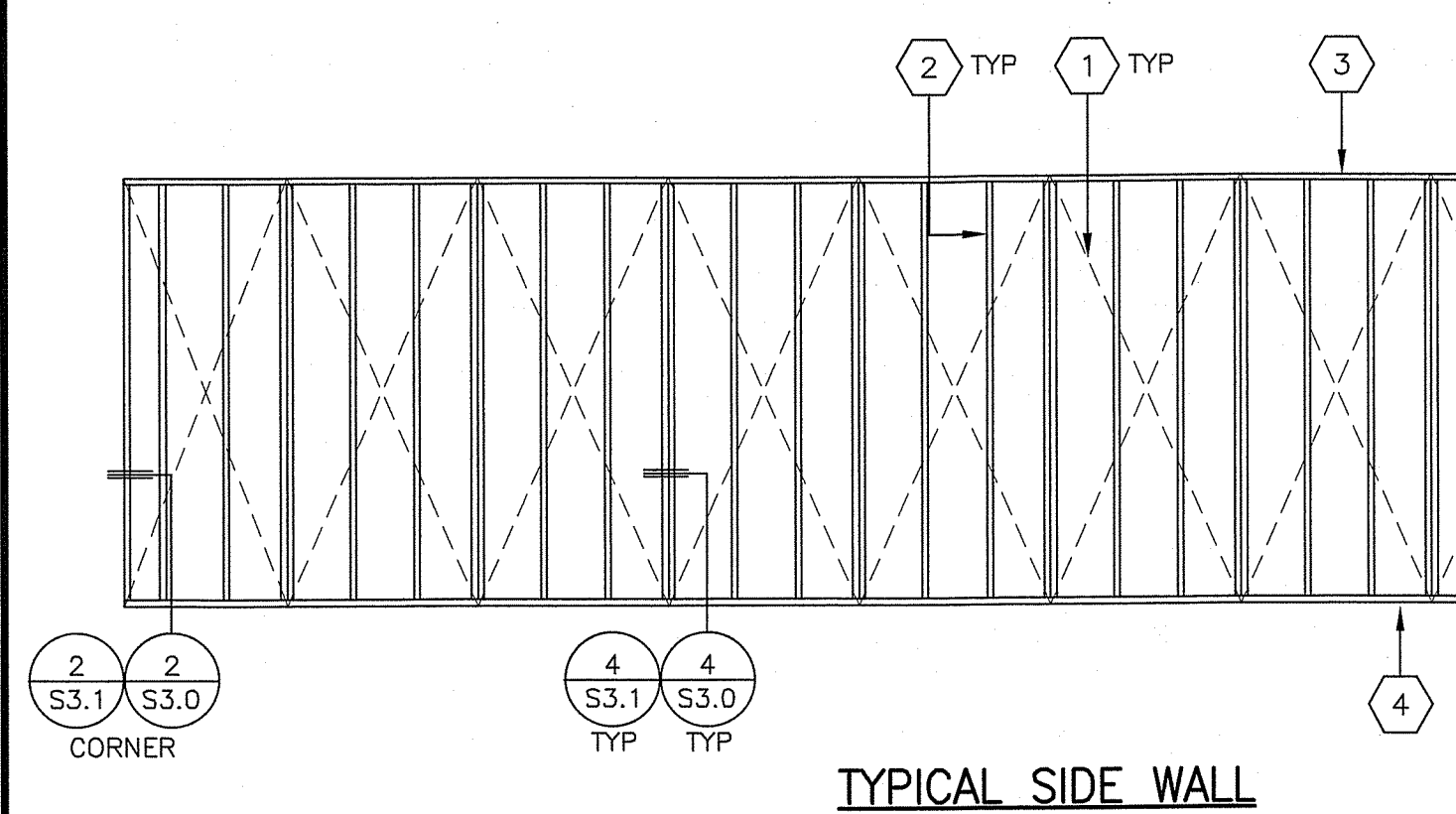
METAL STUD WALL FRAMING SCHEDULE				
EXTERIOR	GAUGE	SIZE	SPACING	BLDG CORNER SPACING
WOOD SIDING	20	SHEET A0.2	16" OC	16" OC WITHIN 48" OF CORNER
STUCCO	20	SHEET A0.2	16" OC	12" OC WITHIN 60" OF CORNER

METAL STUD WALL OPENING SCHEDULE				
OPENING	FULL HT/JAMB STUD	HEADER TRACK	SILL TRACK	BLOCKING
WINDOWS				
8'x4'	STUCCO (4) EACH SIDE	(E) DOUBLE	(E) DOUBLE	-
WOOD	(3) EACH SIDE	(E) DOUBLE	(E) DOUBLE	-
8'x2'	STUCCO (4) EACH SIDE	(E) DOUBLE	(E) DOUBLE	-
WOOD	(3) EACH SIDE	(E) DOUBLE	(E) DOUBLE	-
6'x4'	STUCCO (4) EACH SIDE	(E) DOUBLE	(E) DOUBLE	-
WOOD	(3) EACH SIDE	(E) DOUBLE	(E) DOUBLE	-
4'x4'	STUCCO (2) EACH SIDE [•]	(D) SINGLE	(D) SINGLE	-
WOOD	(2) EACH SIDE	(D) SINGLE	(D) SINGLE	-
DOORS				
3'x7'	STUCCO (2) EACH SIDE	(D) SINGLE	-	-
WOOD	(2) EACH SIDE	(D) SINGLE	-	-
6'x7'	STUCCO (4) EACH SIDE	(E) DOUBLE	-	-
WOOD	(3) EACH SIDE	(E) DOUBLE	-	-
AC				
ALL	(1) 4x4 POST EACH SIDE	SINGLE AT RETURN	SINGLE AT RETURN	4x4

METAL STUD WALL FRAMING SCHEDULE		
TOP TRACK	BOTTOM TRACK	JAMB STUD TO COLUMN
'HILTI' X-U 0.157" SHOT PIN AT 12" MAX OC PER ICC REPORT #ESR-2269	#12 STSMS AT 8" MAX OC	'HILTI' X-U 0.157" SHOT PIN AT 24" MAX OC PER ICC REPORT # ESR-2269
ALT: 1/2" MACHINE BOLTS AT 32" MAX OC OR #10 STS AT 16" MAX OC	ALT: 'HILTI' X-U 0.157" SHOT PIN AT 12" MAX OC PER ICC REPORT #ESR-2269	ALT: #10 STSMS AT 24" MAX OC

FRAMING NOTES	
NOTE: FOR EXACT OPENING, WALL SIZE LOCATIONS SEE FLOOR PLAN	
[•] = ADD (1) ADDITIONAL FULL HT JAMB STUD (EACH SIDE) OR HEADER/SILL AT BUILDING CORNER	
[**] = TOTAL OF (5) FULL HT JAMB STUD (EACH SIDE) AT BUILDING CORNER	

<p><b>A) DOUBLE</b></p>	<p><b>B) TRIPLE</b></p>	<p><b>C) TOP/SILL PLATE</b></p>	<p><b>D) SINGLE HEADER/SILL</b></p>	<p><b>E) DOUBLE HEADER/SILL</b></p>	<p><b>F) JAMB &amp; STUD CONNECTOR</b></p>	<p><b>G) SILL &amp; HEADER NOTCHING</b></p>	<p><b>H) TRACK SPLICE DETAIL</b></p>
-------------------------	-------------------------	---------------------------------	-------------------------------------	-------------------------------------	--	---	--------------------------------------



- ### KEY NOTES
- EXTERIOR PLYWOOD SIDING (DURATEMP) OR 1/2" CD-X PLYWOOD SHEATHING (ALT: OSB WOOD STRUCTURAL PANEL): TO WOOD STUDS USE CORROSION RESISTANT 8d BOX NAILS AT 6" OC BOUNDARY & EDGES, AND 12" OC FIELD TO METAL STUDS USE #10 STS AT 6" OC BOUNDARY & EDGES, AND 12" OC FIELD
  - 2x OR METAL FULL HEIGHT STUDS
  - 2x TOP PLATE OR METAL TRACK
  - 2x BOTTOM PLATE/ METAL TRACK (PRESSURE WOOD TREATED @ CONCRETE FLOOR OPTION)
  - 2x OR METAL STUD TRIMMER - TYPICAL AT OPENINGS
  - HEADER (SEE WALL OPENING SCHEDULE)
  - WINDOW SILL (SEE WALL OPENING SCHEDULE)
  - JAMB STUD (SEE WALL OPENING SCHEDULE)
  - 'SIMPSON' A35 CLIP AT OPENINGS GREATER THAN 48"
  - 'SIMPSON' A34 CLIP

- ### GENERAL NOTES
- #### WOOD STUD ATTACHMENT
- JOIST TO SILL OR GIRDER, TOENAIL: 3-8d COMMON (2.5"x0.131"); 3-3"x0.131" NAILS; 3-3" 14GA STAPLES
  - BRIDGING TO JOIST, TOENAIL EACH END: 2-8d COMMON (2.5"x0.131"); 2-3"x0.131" NAILS; 2-3" 14GA STAPLES
  - 1"x6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL: 2-8d COMMON (2.5"x0.131")
  - WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST, FACE NAIL: 3-8d COMMON (2.5"x0.131")
  - 2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL: 2-16d COMMON (3.5"x0.162")
  - SOLE PLATE TO JOIST OR BLOCKING, TYP FACE NAIL: 16d (3.5"x0.135") @ 16" OC; 3"x0.131" NAILS @ 8" OC; 3" 14 GA STAPLES @ 12" OC
  - SOLE PLATE TO JOIST OR BRACED WALL PANEL, BRACED WALL PANELS: 3-16d (3.5"x0.135") @ 16"; 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES PER 16"
  - TOP PLATE TO STUD, END NAIL: 2-16d COMMON (3.5"x0.162"); 3-3"x0.131" NAILS; 3-3" 14 GA STAPLES
  - DOUBLE STUDS, FACE NAIL: 16d (3.5"x0.135") @ 24" OC; 3"x0.131" NAIL @ 8" OC; 3" 14 GA STAPLE @ 8" OC
  - DOUBLE TOP PLATES, TYP FACE NAIL: 16d (3.5"x0.135") @ 16" OC; 3"x0.131" NAILS @ 12" OC; 3" 14 GA STAPLES @ 12" OC
  - DOUBLE TOP PLATES, LAP SPLICE: 8-16d COMMON (3.5"x0.162"); 12-3"x0.131" NAILS; 12-3" 14 GA STAPLES
  - BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL: 3-8d COMMON (2.5"x0.131"); 3-3"x0.131" NAILS; 3-3" 14 GA STAPLES
  - RIM JOIST TO TOP PLATE, TOENAIL: 8d (2.5"x0.131") @ 6" OC; 3"x0.131" NAIL @ 6" OC; 3" 14 GA STAPLE @ 6" OC
  - TOP PLATES, LAP & INTERSECTION, FACE NAIL: 2-16d COMMON (3.5"x0.162"); 3-3"x0.131" NAILS; 3-3" 14 GA STAPLES
  - CONTINUOUS HEADER, TWO PIECES, 16" OC ALONG EDGE: 16d COMMON (3.5"x0.162")
  - CEILING JOIST TO PLATE, TOENAIL: 3-8d COMMON (2.5"x0.131"); 5-5"x0.131" NAILS; 5-3" 14 GA STAPLES
  - CONTINUOUS HEADER TO STUD, TOENAIL: 4-8d COMMON (2.5"x0.131")
  - CEILING JOISTS, LAP OVER PARTITIONS (SEE SECT 2308.10.4.1, TABLE 2308.10.4.1), FACE NAIL: 3-16d COMMON (3.5"x0.162") MIN, TABLE 2308.10.4.1; 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES
  - CEILING JOIST TO PARALLEL RAFTERS (SEE SECT 2308.10.4.1, TABLE 2308.10.4.1), FACE NAIL: 3-16d COMMON (3.5"x0.162") MIN TABLE 2308.10.4.1; 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES
  - RAFTER TO PLATE (SEE SECT 2308.10.1, TABLE 2308.10.4.1), FACE NAIL: 3-8d COMMON (2.5"x0.131"); 3-3"x0.131" NAILS; 3-3" 14 GA STAPLES
  - DIAGONAL BRACE TO EACH STUD AND PLATE, FACE NAIL: 2-8d COMMON (2.5"x0.131"); 2-3"x0.131" NAILS; 3-3" 14 GA STAPLES
  - 1"x8" SHEATHING TO EACH BEARING, FACE NAIL: 3-8d COMMON (2.5"x0.131")
  - WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL: 3-8d COMMON (2.5"x0.131")
  - BUILT-UP CORNER STUDS: 16d COMMON (3.5"x0.162") 24" OC; 3"x0.131" NAILS 16" OC; 3" 14 GA STAPLES 16" OC
  - BUILT-UP GIRDER AND BEAMS, FACE NAIL @ TOP & BOT STAGGERED ON OPP SIDES: 20d COMMON (4"x0.192") 32" OC; 3"x0.131" NAILS @ 24" OC; 3" 14 GA STAPLE @ 24" OC. FACE NAIL @ END & AT EACH SPLICE: 2-20d COMMON (4"x0.192"); 3"x0.131" NAILS; 3-3" 14 GA STAPLES
  - 2" PLANKS @ EACH BEARING: 16d COMMON (3.5"x0.162")
  - COLLAR TIE TO RAFTER, FACE NAIL: 3-10d COMMON (3"x0.148"); 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES
  - JACK RAFTER TO HIP, TOENAIL: 3-10d COMMON (3"x0.148"); 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES
  - FACE NAIL: 2-16d COMMON (3.5"x0.162"); 3-3"x0.131" NAILS; 3-3" 14 GA STAPLES
  - ROOF RAFTER TO 2x RIDGE BEAM, TOENAIL & FACE NAIL: 3-16d COMMON (3.5"x0.162"); 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES
  - JOIST TO BAND JOIST, FACE NAIL: 3-16d COMMON (3.5"x0.162"); 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES
  - LEDGER STRIP, FACE NAIL: 3-16d COMMON (3.5"x0.162"); 4-3"x0.131" NAILS; 4-3" 14 GA STAPLES
  - WOOD STRUCTURAL PANELS & PARTICLEBOARD SUBFLOOR, ROOF & WALL SHEATHING (TO FRAMING), 1/2" AND LESS: 6d<sup>2</sup> 2-3/8"x0.113" NAIL<sup>1</sup> 19/32" TO 3/4"; 8d<sup>2</sup> OR 6d<sup>4</sup> 2-3/8"x0.113" NAIL<sup>1</sup> 7/8" TO 1"; 8d<sup>2</sup> 1-1/8" TO 1-1/4"; 10d<sup>2</sup> OR 8d<sup>4</sup> SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING), 3/4" AND LESS: 6d<sup>4</sup> 7/8" TO 1"; 8d<sup>2</sup> 1-1/8" TO 1-1/4"; 10d<sup>2</sup> OR 8d<sup>4</sup>
  - PANEL SIDING (TO FRAMING), 1/2" OR LESS: 6d<sup>4</sup> 5/8"; 8d<sup>4</sup>
  - FIBERBOARD SHEATHING 9/16" #11 GA ROOFING NAIL<sup>2</sup> 8d COMMON NAIL (2.5"x0.113"); #16 GA STAPLE<sup>1</sup> #11 GA ROOFING NAIL<sup>2</sup> 8d COMMON NAIL (2.5"x0.131"); #16 GA STAPLE
  - INTERIOR PANELLING, 1/4": 4d<sup>3</sup> 3/8"; 6d<sup>4</sup>

- ### FOOTNOTES
- COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED
  - NAILS SPACED @ 6" CO AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE FOR NAILING OF WOOD STRUCTURAL PANEL AND INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS
  - COMMON OR DEFORMED SHANK (6d: 2"x0.113"; 8d: 2.5"x0.131"; 10d: 3"x0.148")
  - COMMON (6d: 2"x0.113"; 8d: 2.5"x0.131"; 10d: 3"x0.148")
  - DEFORMED SHANK (6d: 2"x0.113"; 8d: 2.5"x0.131"; 10d: 3"x0.148")
  - CORROSION RESISTANT SIDING (6d: 1-7/8"x0.106"; 8d: 2-3/8"x0.128") OR CASING (6d: 2"x0.099"; 8d: 2.5"x0.113") NAIL
  - FASTENERS SPACED 3" CO AT EXT EDGES AND 6" CO AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING SPACING SHALL BE 6" OC ON THE EDGES & 12" OC AT THE INTERMEDIATE SUPPORTS
  - CORROSION RESISTANT ROOFING NAILS WITH 7/16" HEAD AND 1 1/2" LENGTH FOR 1/2" SHEATHING AND 1 3/4" LENGTH FOR 25/32" SHEATHING
  - INTERMEDIATE SUPPORTS
  - CASING (1.5"x0.080") OR FINISH (1.5"x0.072) NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS
  - PANEL SUPPORTS AT 24" CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS
  - FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2.5"x0.113") ARE THE MIN REQUIRED FOR WOOD STRUCTURAL PANELS
  - STAPLES NOT PERMITTED
  - FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" OC AT EDGES, 8" OC AT INTERMEDIATE SUPPORTS
  - FASTENERS SPACED 4" OC AT EDGES, 8" AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING
  - FASTENERS SPACED 4" OC AT EDGES, 8" AT INTERMEDIATE SUPPORTS

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV OF THE STATE ARCHITECT

APP: 02-118411 INC:  
REVIEWED FOR:  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

GLOBAL MODULAR Incorporated

AURA MODTECH DESIGNS

MODULAR STRUCTURES INTERNATIONAL INC. DESIGN

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHICOHILLA, CA 95910  
PHONE: (530) 865-5800  
FAX: (530) 865-5700  
WEBSITE: WWW.GMODA.NET

SOUTHERN CALIFORNIA DIVISION  
1660 CHICAGO AVE., SUITE JM-21  
RIVERSIDE, CA 92507  
PHONE: (951) 886-3633  
FAX: (951) 886-3662  
WEBSITE: WWW.GMODA.NET

THIS DRAWING AND THE MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

WALL FRAMING ELEVATIONS

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED

DEC 11 2016

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV OF THE STATE ARCHITECT

PC 02-116677  
FILE # PC-72  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2016

REVISIONS


PROJECT NO.: 00-0000

DRAWN BY: 00

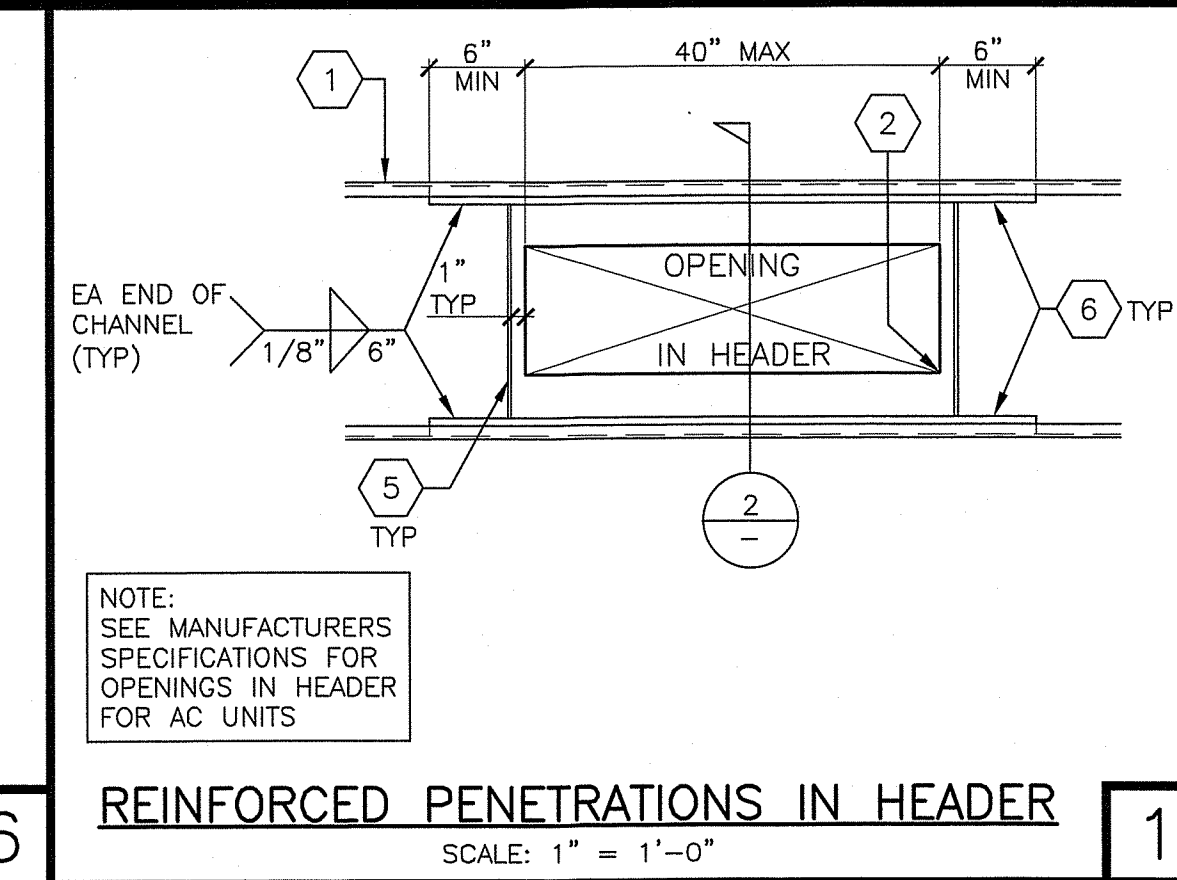
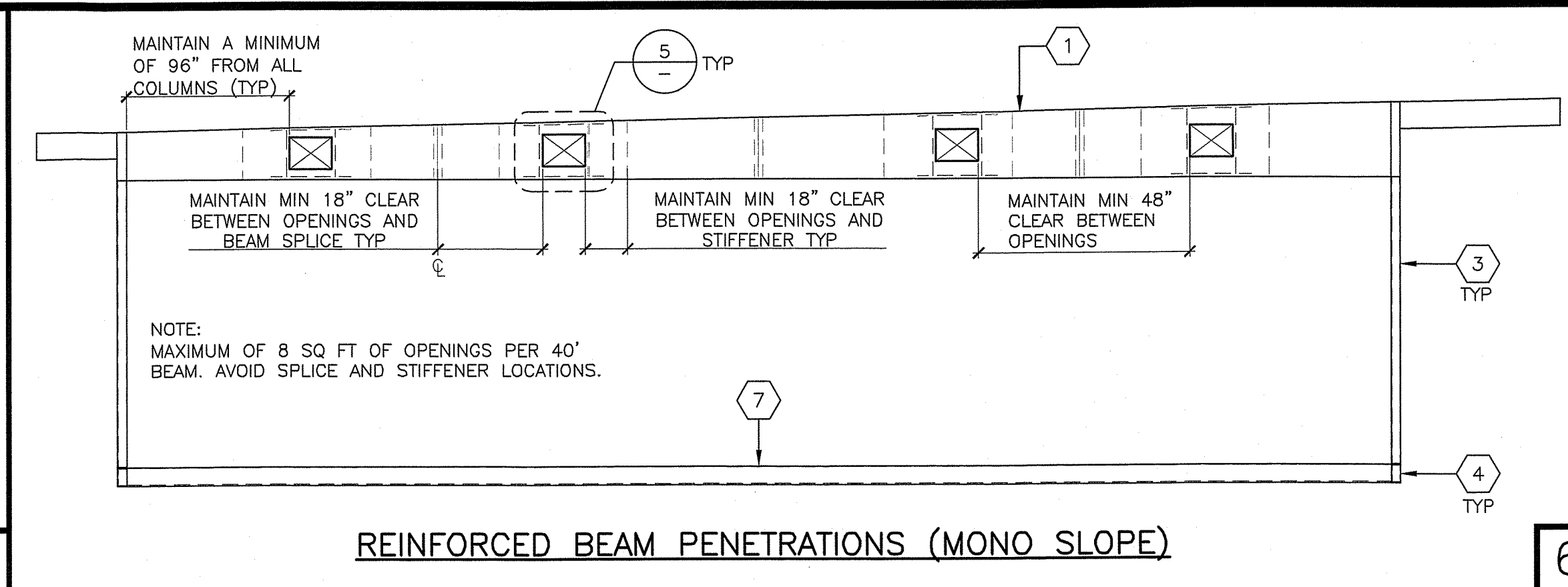
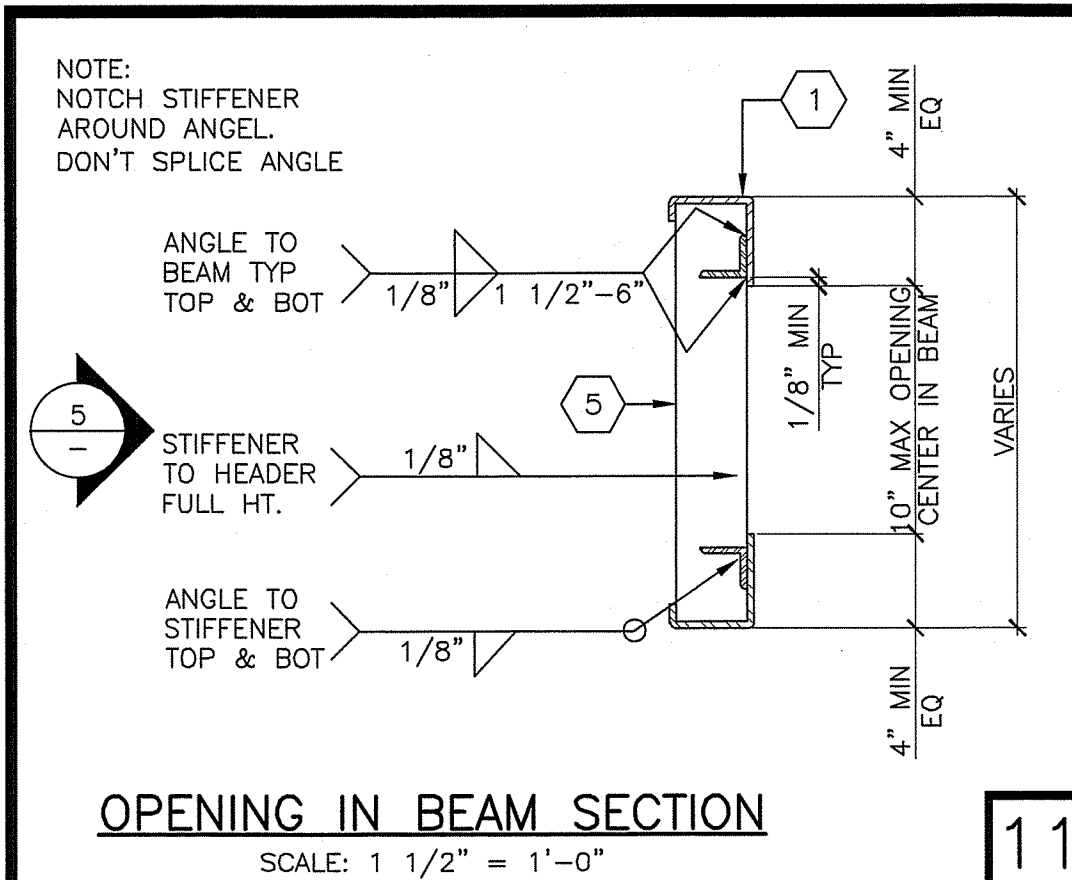
SCALE: AS NOTED

DATE: 00-00-00

SHEET NUMBER

S3.2





- ### KEY NOTES
1. ROOF HEADER/BEAM (SEE ROOF STRUCTURAL FRAMING PLAN)
  2. CUT CORNERS WITH 1/4" RADIUS
  3. COLUMN (SEE STRUCTURAL BUILDING SECTION SHEETS)
  4. STUB COLUMN (SEE STRUCTURAL BUILDING SECTION SHEETS)
  5. 1/4" STIFFENER PLATE
  6. C-3 1/4" X 1" X 10 GA CHANNEL TOP AND BOTTOM
  7. PERIMETER FLOOR BEAM (SEE STRUCTURAL FLOOR FRAMING SHEETS)
  8. L-3" X 3" X 1/4" ANGLE TOP AND BOTTOM

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
Incorporated

**AURORA MODTECH**  
DESIGNS

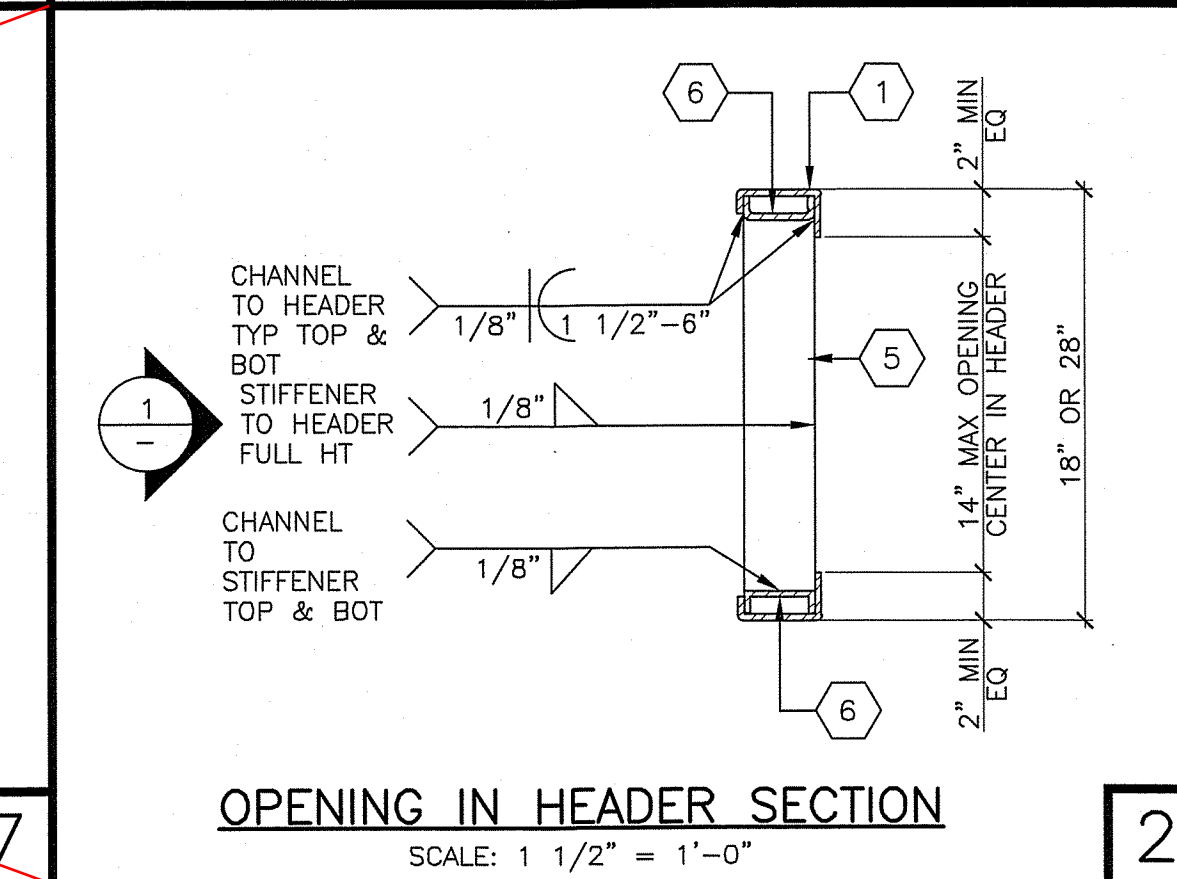
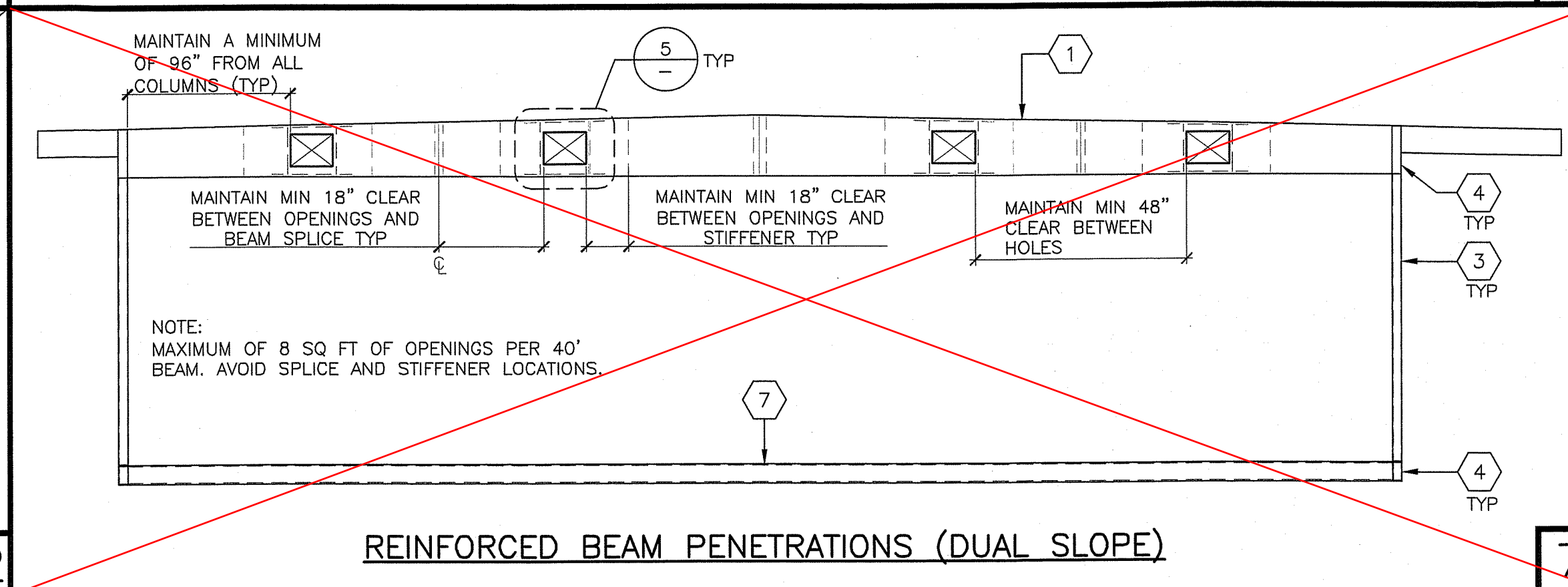
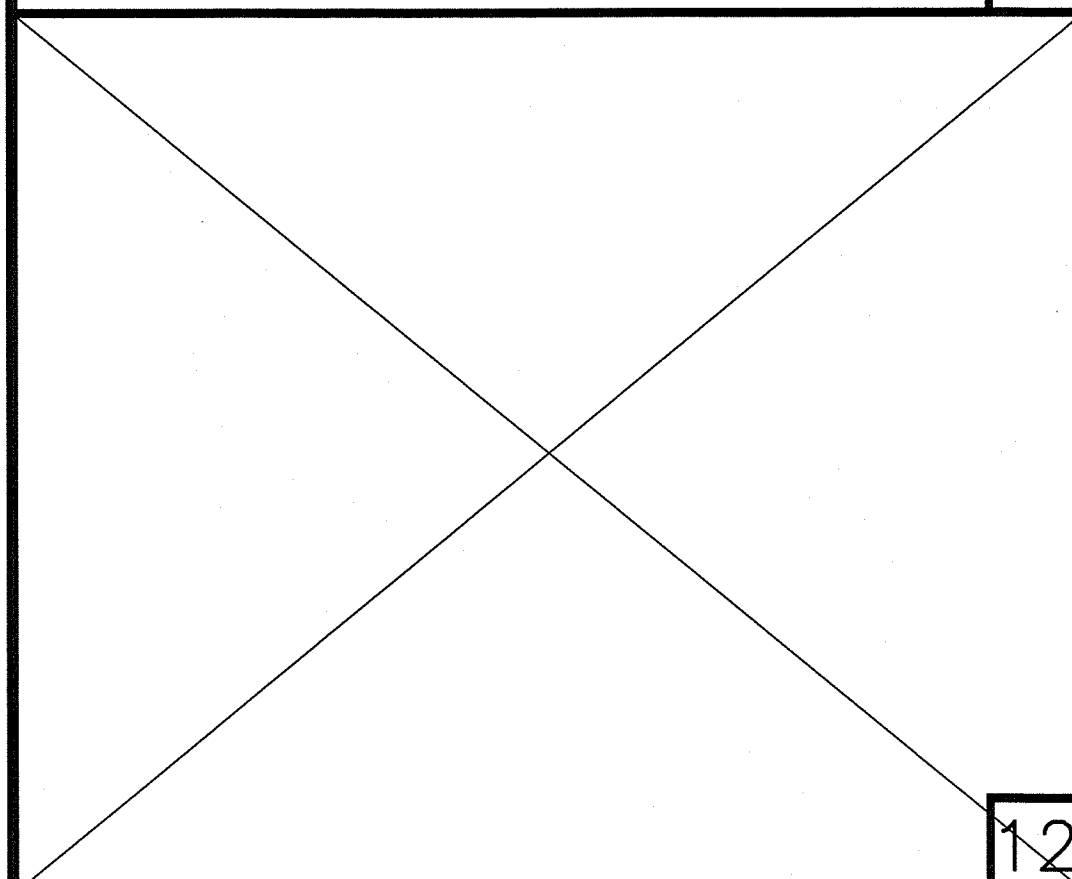
CONTRACTORS LICENSE #B37357

NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHOWHILLA, CA 93610  
PHONE: (559) 686-5800  
FAX: (559) 686-5700  
WEBSITE: WWW.GDM.NET

SOUTHERN CALIFORNIA DIVISION  
1860 CHICAGO AVE., SUITE 9M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3682  
WEBSITE: WWW.GDM.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

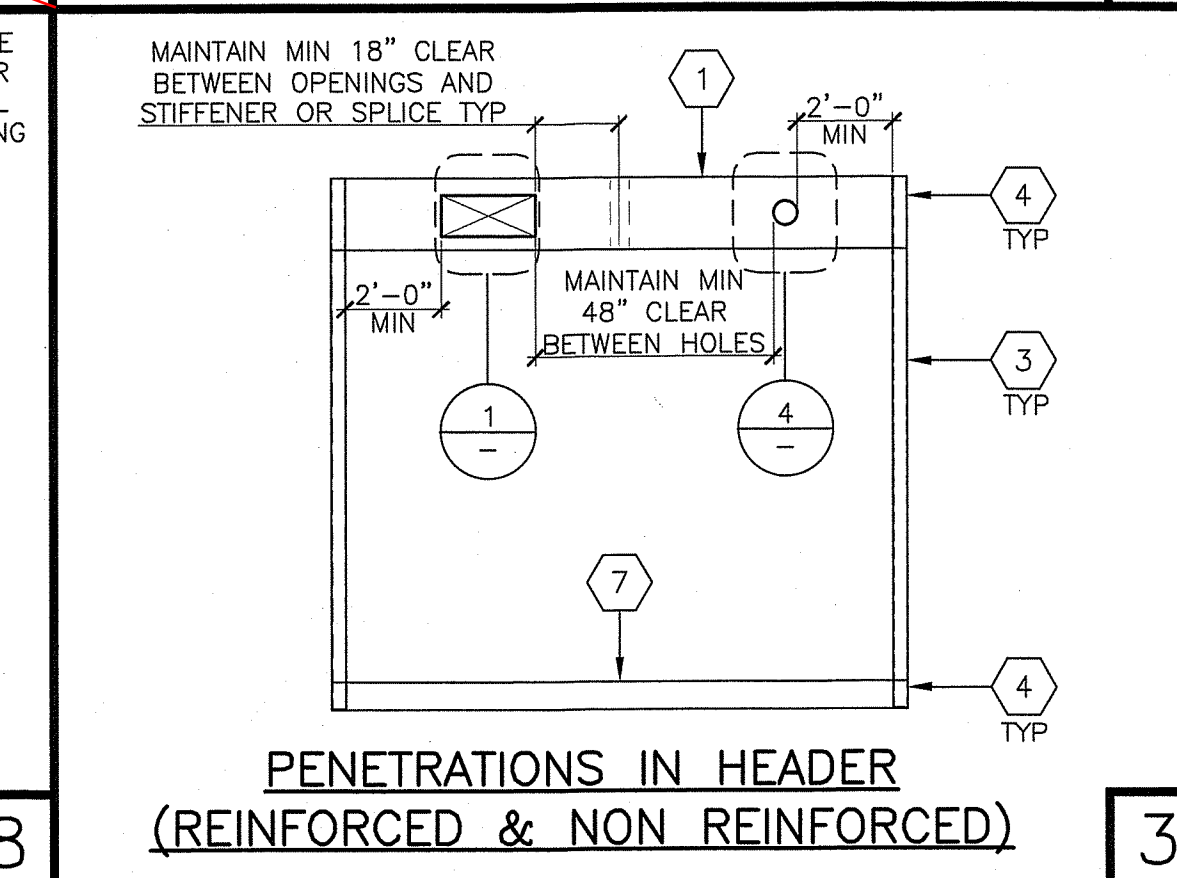
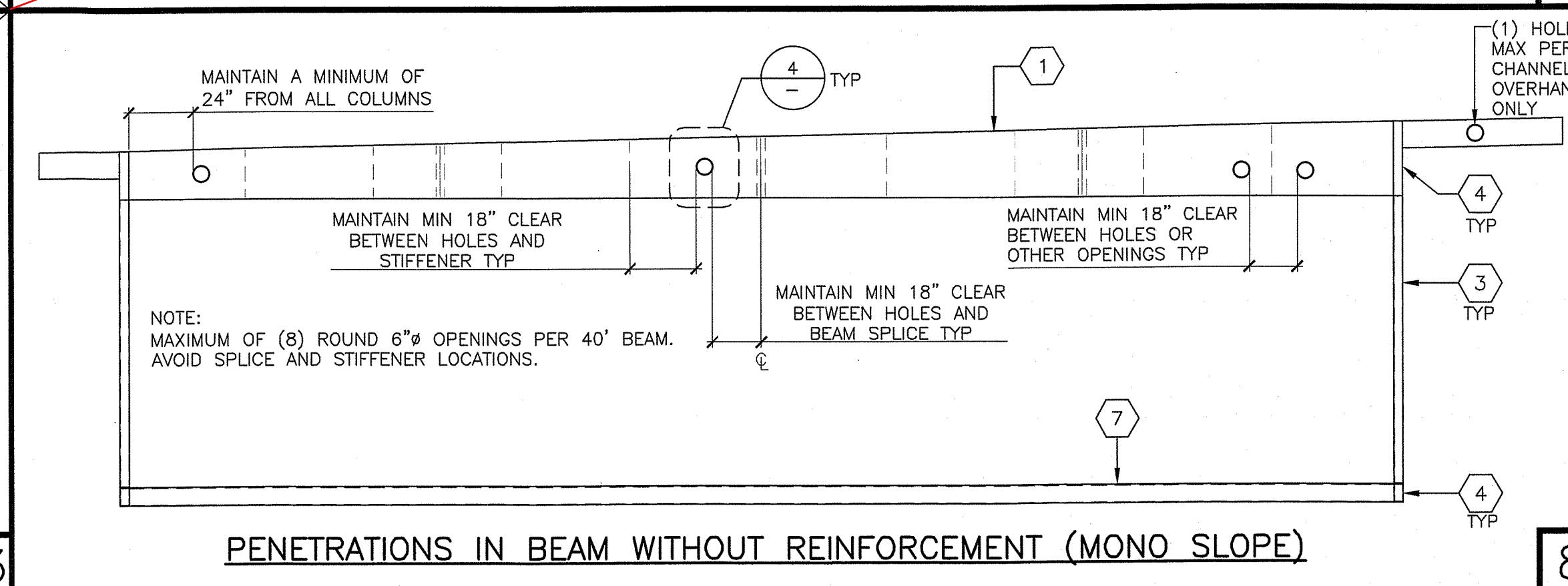
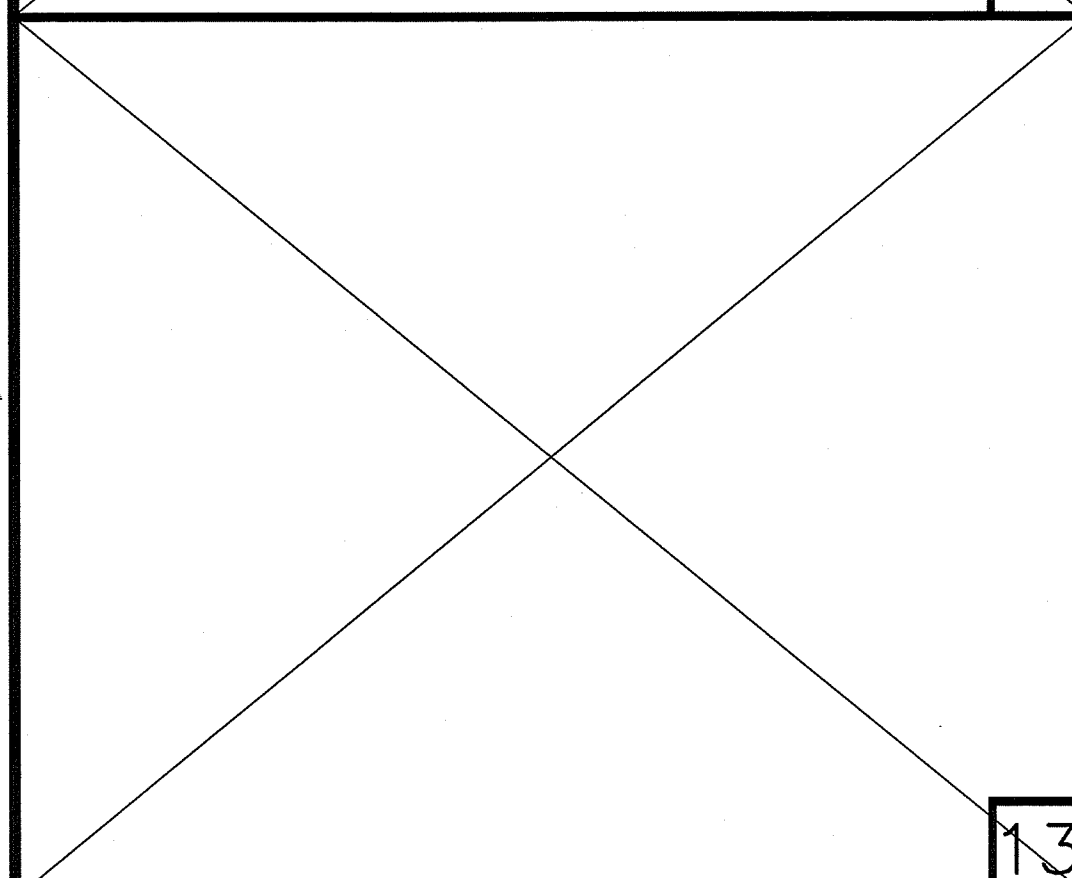


- SHEET TITLE:
- ALLOWABLE BEAM AND  
HEADER PENETRATIONS

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

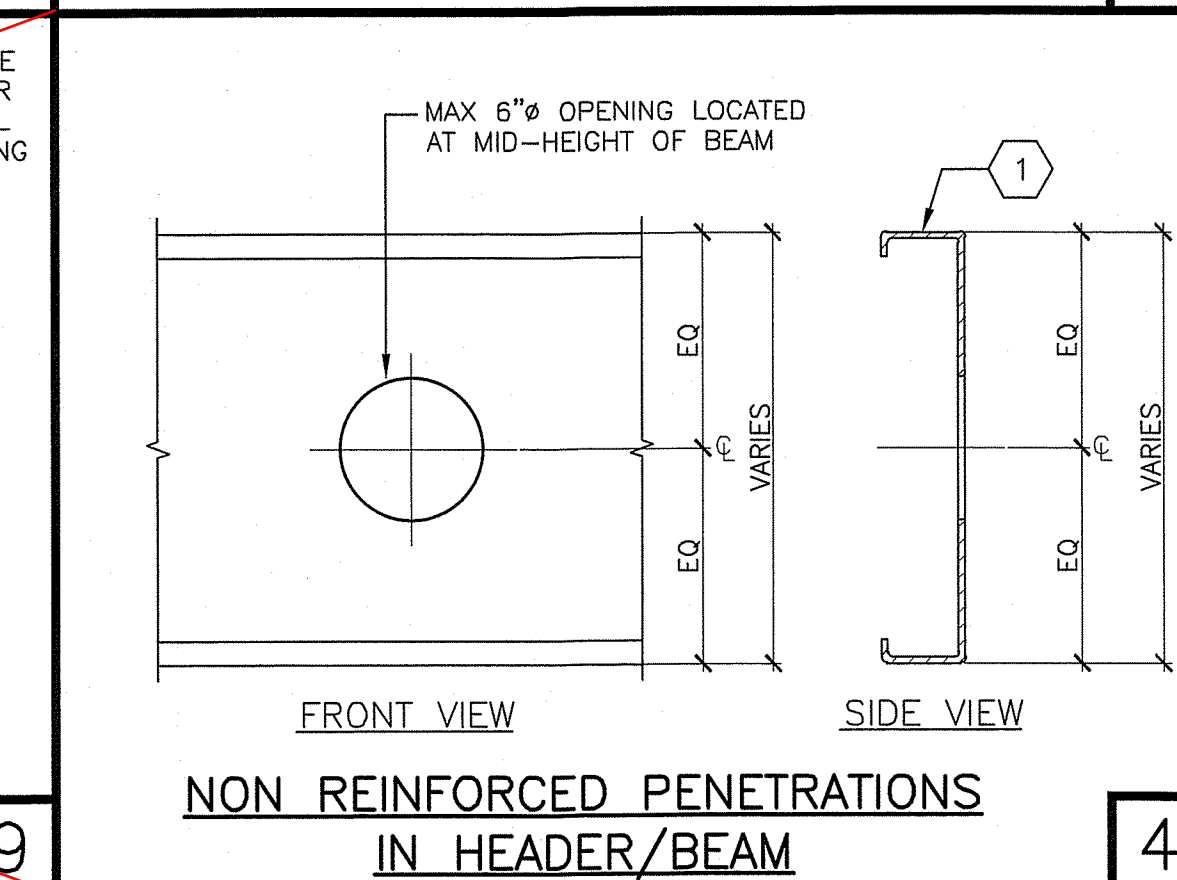
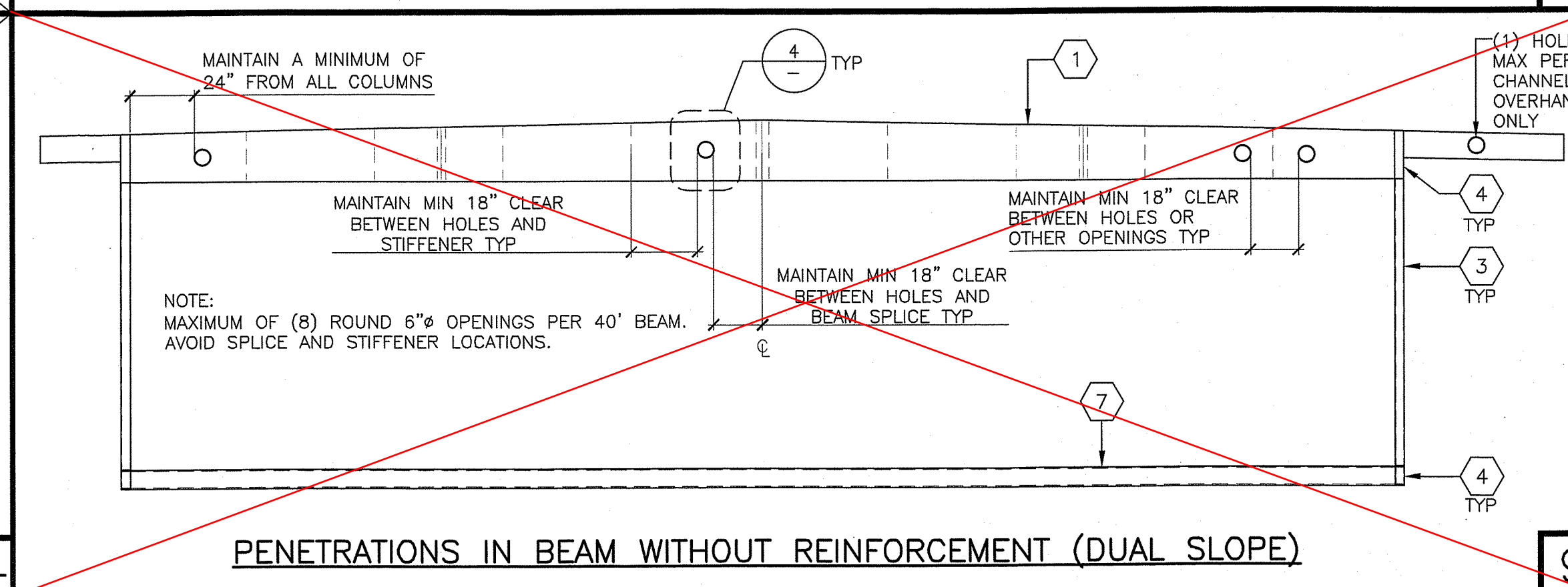
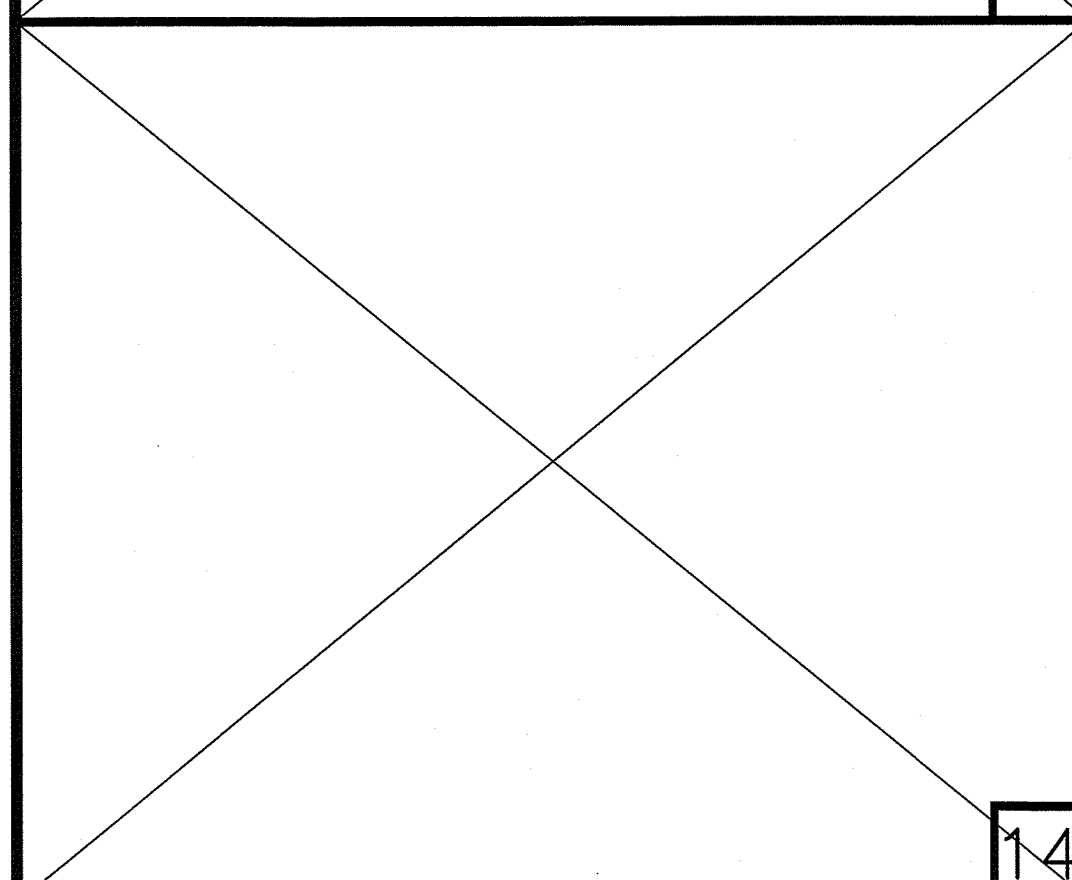
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD



- ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS  
REQUIRED

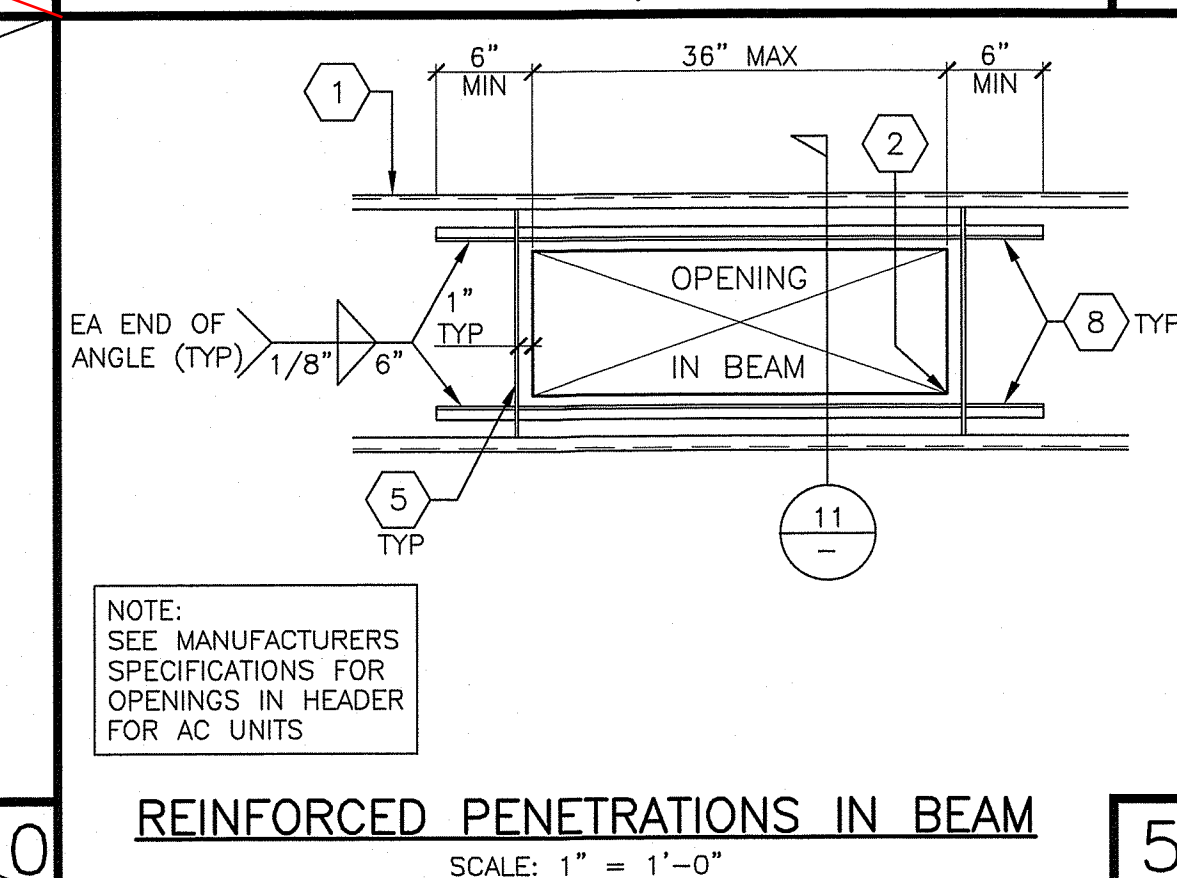
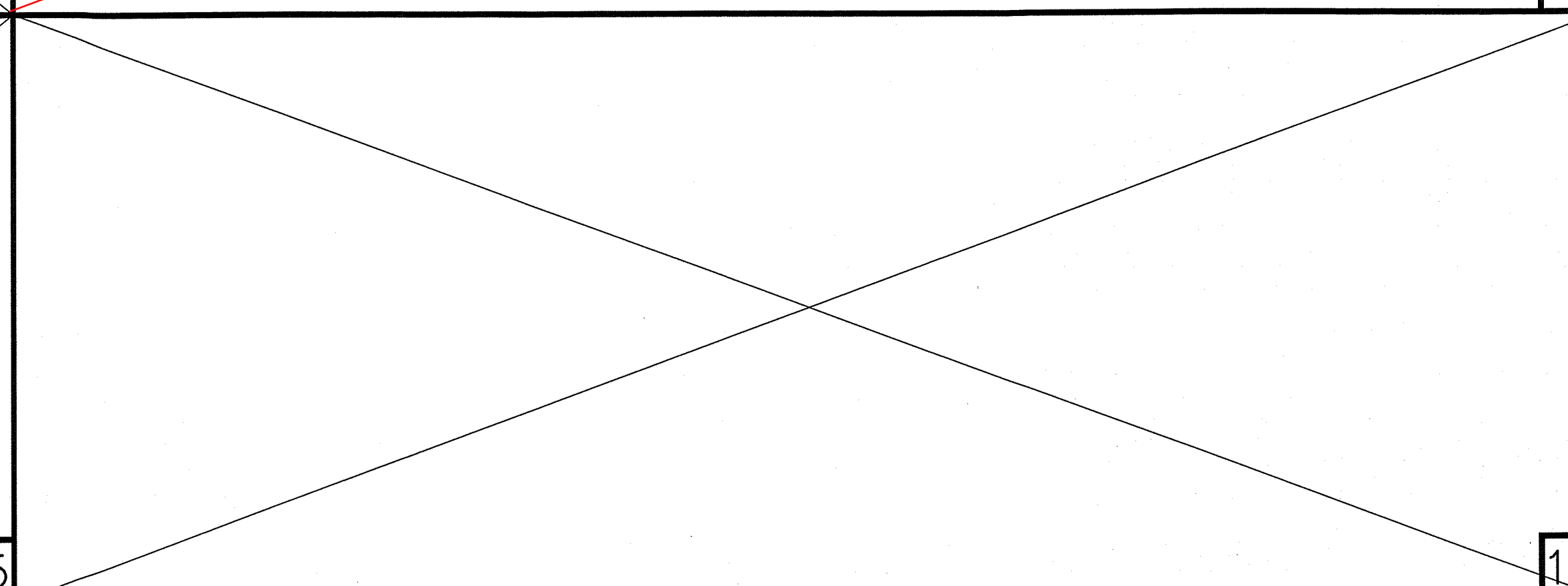
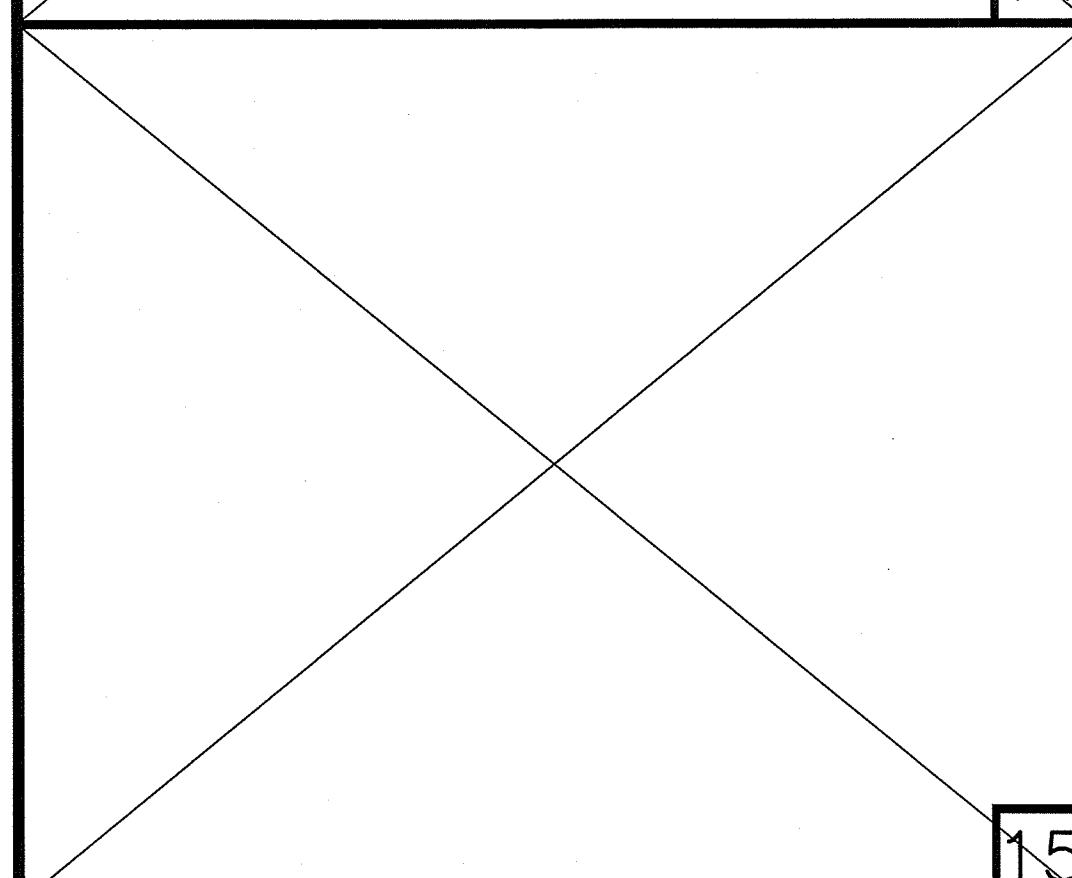
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # PG-2  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2018



- REVISIONS
- | NO. | DESCRIPTION |
|-----|-------------|
| 1   |             |
| 2   |             |
| 3   |             |
| 4   |             |
| 5   |             |
| 6   |             |
| 7   |             |
| 8   |             |
| 9   |             |
| 10  |             |
| 11  |             |
| 12  |             |
| 13  |             |
| 14  |             |
| 15  |             |

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00

SHEET NUMBER



- PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00
- SHEET NUMBER

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00

SHEET NUMBER

**S4.0**



NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THRU 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND 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 ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- 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.
- 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.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM), 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 #) #

MP ☐ MD ☐ PP ☐ E ☐ - OPTION 3: SHALL COMPLY WITH SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WHICH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS

WALL MOUNT EQUIPMENT SCHEDULE

**AC 1** BARD: W36HB-A05VPXXXX WALL MOUNTED HEAT PUMP  
36,000 BTUH COOLING, EER = 11.0  
31,660 BTUH HEATING, COP = 3.3  
1107 CFM @ .2" ESP, 380 LBS  
230/208V - 1PH - 60 CY, MCA = 55A, MOP = 60A  
WITH OPTIONAL COMM. VENTILATOR, 0-10V VARIABLE

ROOF MOUNT EQUIPMENT SCHEDULE

**AC 1A** - CARRIER: , 50KCA0A0A0A3-0A0A0 ROOF MOUNTED HEAT PUMP  
W/ 5KW HEATER CRHEATER102A00  
35,000 BTUH COOLING, SEER/EER = 14.0/12.1  
35,600 BTUH HEATING, HSPF = 8.1  
1200 CFM, WT = 495 LBS  
208/230V-1PH-60CY, MCA = 63, MOP = 70  
WITH FACTORY ROOF CURB & FRESH AIR INTAKE

**AC 2A** - CARRIER: , 50KCA0A0A0A3-0A0A0 ROOF MOUNTED HEAT PUMP  
W/ 5KW HEATER CRHEATER101A00  
(USE CRHEATER102A00 FOR 3PH ONLY)  
49,000 BTUH COOLING, SEER/EER = 14.0/12.1  
45,500 BTUH HEATING, HSPF = 8.0  
1600 CFM, WT = 580 LBS  
208/230V-1PH-60CY, MCA = 59, MOP = 60  
WITH FACTORY ROOF CURB & FRESH AIR INTAKE

**AC 3A** - CARRIER: , 50KCA0A0A0A3-0A0A0 ROOF MOUNTED HEAT PUMP  
W/ 5KW HEATER CRHEATER102A00  
58,000 BTUH COOLING, SEER/EER = 14.3/12.2  
58,500 BTUH HEATING, HSPF = 8.2  
2000 CFM , WT = 610 LBS  
208/230V-1PH-60CY, MCA = 73, MOP = 80  
WITH FACTORY ROOF CURB & FRESH AIR INTAKE

MATERIAL SCHEDULE

SUPPLY AIR PLENUM: GALV. IRON SHEETS W/ 1/2" LINER INSULATION

INTERIOR DUCTWORK:FLEX DUCT CLASS 1 UL-181 W/ R-8 INSULATION

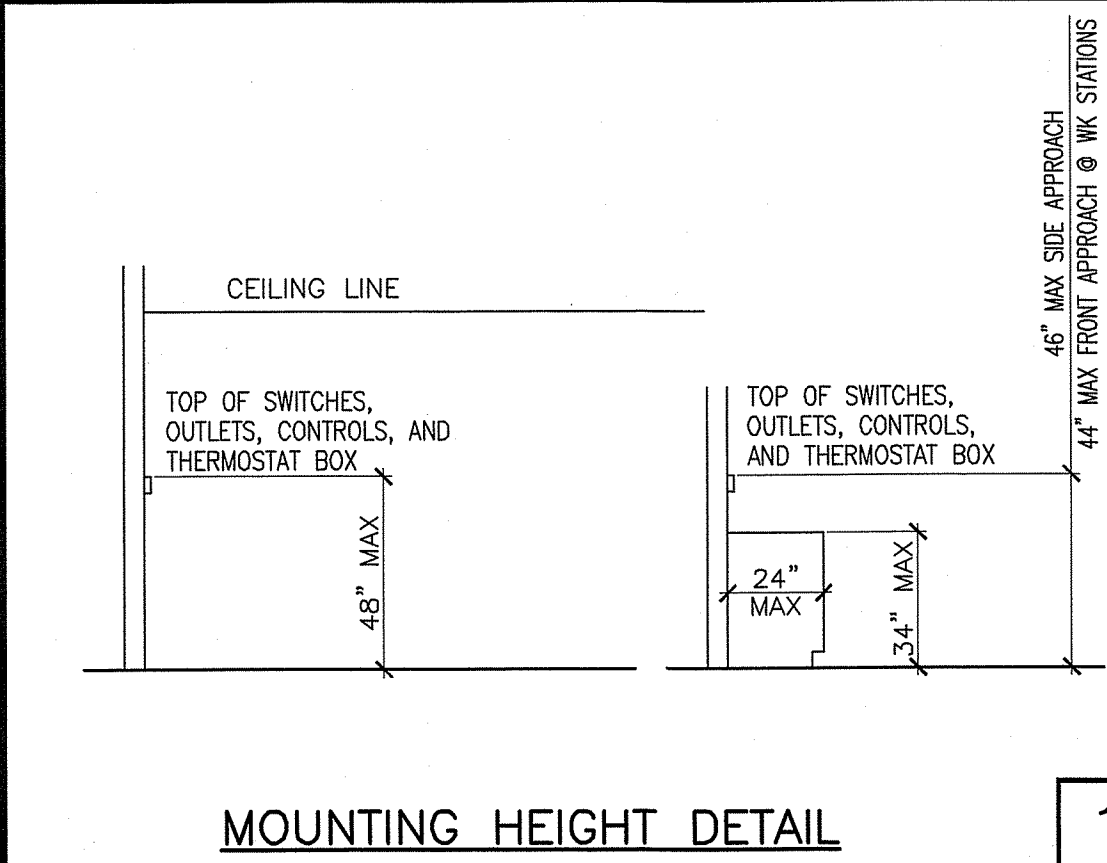
REGISTER BOXES: GALV IRON SHEETS W/ 1/2" LINER INSULATION

SUPPLY AIR REGISTERS: METALAIRE '7650-6' SERIES

RETURN AIR GRILLES: METALAIRE 'RH' SERIES

THERMOSTAT: WHITE RODGERS '1F92' SERIES

FLAME SPREAD LESS THAN 25 SMOKE DEVELOPED  
RATING LESS THAN 50



WORSE CASE HVAC VARIATIONS (WALL MOUNT)			
SIZE: 24X40	ZONE 14	ZONE 15	ZONE 16
(1) 24X40			
TYPE: HEAT PUMP	AC-1	AC-1	AC-1
WALL: METAL STUDS	R-19+4" RIDGID	R-19+4" RIDGID	R-19+4" RIDGID
ROOF: METAL ROOF	R-30	R-30	R-30
FLOOR: CONC FLOOR	R-0	R-0	R-0
SIZE: 120X40	ZONE 14	ZONE 15	ZONE 16
(5) 24X40			
TYPE: HEAT PUMP	*AC-3 (5 UNITS)	*AC-3 (5 UNITS)	*AC-3 (5 UNITS)
WALL: METAL STUDS	R-19+4" RIDGID	R-19+4" RIDGID	R-19+4" RIDGID
ROOF: METAL ROOF	R-30	R-30	R-30
FLOOR: CONC FLOOR	R-0	R-0	R-0

NOTE: THE ABOVE CHART ARE MINIMUM REQUIREMENTS THAT MUST COMPLY WHEN BUILDINGS (SMALLEST TO LARGEST) ARE PLACED IN THE ZONED AREAS IN ORDER TO MEET TITLE 24 ENERGY COMPLIANCE. THE WALL TYPE, ROOF TYPE AND FLOOR TYPE (LISTED) ARE CONSIDERED WORSE CASE MATERIALS. PROJECT SPECIFIC MATERIALS THAT ARE NOT USED PER THE ABOVE CHART SHALL PROCEED WITH MATERIALS LISTED SHEET A0.2.  
\* = AC-3 IS MAX TONAGE. OPTIONAL AC-1 OR AC-2 (5 UNITS) CAN BE SUBSTITUTED

WORSE CASE HVAC VARIATIONS (ROOF MOUNT)			
SIZE: 24X40	ZONE 14	ZONE 15	ZONE 16
(1) 24X40			
TYPE: HEAT PUMP	AC-1A	AC-1A	AC-1A
WALL: METAL STUDS	R-19+4" RIDGID	R-19+4" RIDGID	R-19+4" RIDGID
ROOF: METAL ROOF	R-30	R-30	R-30
FLOOR: CONC FLOOR	R-0	R-0	R-0
SIZE: 120X40	ZONE 14	ZONE 15	ZONE 16
(5) 24X40			
TYPE: HEAT PUMP	*AC-3A (5 UNITS)	*AC-3A (5 UNITS)	*AC-3A (5 UNITS)
WALL: METAL STUDS	R-19+4" RIDGID	R-19+4" RIDGID	R-19+4" RIDGID
ROOF: METAL ROOF	R-30	R-30	R-30
FLOOR: CONC FLOOR	R-0	R-0	R-0

NOTE: THE ABOVE CHART ARE MINIMUM REQUIREMENTS THAT MUST COMPLY WHEN BUILDINGS (SMALLEST TO LARGEST) ARE PLACED IN THE ZONED AREAS IN ORDER TO MEET TITLE 24 ENERGY COMPLIANCE. THE WALL TYPE, ROOF TYPE AND FLOOR TYPE (LISTED) ARE CONSIDERED WORSE CASE MATERIALS. PROJECT SPECIFIC MATERIALS THAT ARE NOT USED PER THE ABOVE CHART SHALL PROCEED WITH MATERIALS LISTED SHEET A0.2.  
\* = AC-3A IS MAX TONAGE. OPTIONAL AC-1A OR AC-2A (5 UNITS) CAN BE SUBSTITUTED

GENERAL NOTE:

- PER THE CALIFORNIA ENERGY CODE (CEC) CLASSROOMS ARE DESIGNED FOR MINIMUM OUTSIDE AIR OF 0.38 CFM PER SF OR TO 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. PC MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT TO EXPECTED NUMBER OF OCCUPANTS IN THE CLASSROOM SO THAT THE OUTDOOR VENTILATION RATE FOR MECHANICAL SYSTEMS CAN BE ADEQUATELY ADJUSTED UPON INSTALLATION OF THE BUILDING. PC 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 RE-CIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.

LEGEND AND ABBREVIATIONS

----	SUPPLY DUCT		DIRECTIONAL AIR FLOW
---	RETURN DUCT		BAROMETRIC RELIEF DAMPER THRU WALL
12"	NUMBER INDICATES DUCT SIZE		UNDERCUT DOOR
	RETURN REGISTER		BAROMETRIC RELIEF DAMPER THRU ROOF
	RETURN REGISTER		TOP OF THERMOSTAT +48" AFF
	SUPPLY REGISTER		DAMPER
	EXHAUST FAN		EQUIPMENT CALLOUT: TOP = EQUIPMENT TYPE BOTTOM = IDENTIFICATION
	12"x12" HOLE THRU BEAM	E	ELECTRICAL LOCATION (PROVIDE WP BOX)
	16"x10" HOLE THRU BEAM	G	GAS LOCATION
	FIRE SMOKE DAMPER 'POTTORF': FSD-125R	RAG	RETURN AIR GRILL
	COMBINATION SMOKE FIRE DAMPER 'POTTORF': FSD-141	EP	EXTRA PURLIN
CD	CONDENSTATE DRAIN	RL	RIDGE LINE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

GLOBAL MODULAR  
Incorporated

AURORA ModTECH  
DESIGNS  
MODULAR STRUCTURES  
INTERNATIONAL, INC.  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON 1200 AIRPORT DRIVE CHOWCHILLA, CA 93610  
PHONE: (559) 665-5800 FAX: (559) 665-5700 WEBSITE: WWW.GDMV.NET  
SOUTHERN CALIFORNIA DIVISON 1660 CHICAGO AVE., SUITE #N-21 RIVERSIDE, CA 92507  
PHONE: (951) 686-3633 FAX: (951) 686-3662 WEBSITE: WWW.GDMV.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

MECHANICAL SCHEDULE AND NOTES

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2016  
PROFESSIONAL SEAL: RAFAEL T. SIMON, No. 3602, STATE OF CALIFORNIA, CIVIL ENGINEER

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
AC 4 FLS 2 DATE: DEC 14 2016

REVISIONS  
-  
-  
-  
-  
-  
-  
-  
-

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER

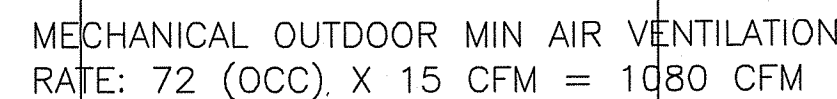
M0.0





# M0.1






PROJECT SPECIFIC (CHECK ONE):

☐ STANDARD DESIGN AS SHOWN

☐ SOLATUBE OPTION. REFERENCE SHEET  
A11.0

1. REFER TO SHEET M0.0 & M0.1 FOR DETAILS, LEGEND AND SCHEDULES
2. BUILDING OVERHAUNG PROJECTION MUST BE A MINIMUM 36" FOR ANY HVAC UNIT 13.00 SEER AND GREATER
3. DUCT SEALING LEAKAGE RATE SHALL NOT EXCEED 6%
4. WHEN AN INTERIOR ROOM(S) ARE ADDED AND COMBINED A/C SYSTEM EXCEEDS 2000 CFM, AN AUTOMATIC SHUT DOWN OF A/C UNITS MUST BE PROVIDED AND SHOWN ON THIS PLAN SET AND COORDINATED WITH THE ARCHITECT'S FIRE ALARM SYSTEM DRAWINGS PER CMC SECTION 608.1
5. PER ENERGY CODE SECTION 120.2(e), EACH SPACE-CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT COMPLY WITH THE FOLLOWING:
  - A. THE CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY SHUTTING OFF THE SYSTEM DURING PERIODS OF NON-USE AND SHALL HAVE:
    - A. AN AUTOMATIC TIME SWITCH CONTROL DEVICE COMPLYING WITH SECTION 110.9, WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM FOR UP TO 4 HOURS; OR
    - B. AN OCCUPANCY SENSOR; OR
    - C. A 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED

PROJECT SPECIFIC STATE AGENCY APPROVAL			
<div>IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-118411 INC: REVIEWED FOR SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/> DATE: 06/11/2020</div>			
<div><div>GLOBAL MODULAR Incorporated</div><div>MODULAR STRUCTURES INTERNATIONAL, INC. DESIGN</div></div>			
CONTRACTORS LICENSE #837357			
NORTHERN CALIFORNIA DIVISION 1650 AIRPORT DRIVE RIVERCHILL, CA 93510 PHONE: (569) 665-5800 (569) 665-5700 FAX: (569) 665-5700 WEBSITE: <a href="http://WWW.GDMV.NET">WWW.GDMV.NET</a>		SOUTHERN CALIFORNIA DIVISION 1650 CHICAGO AVE., SUITE #M-21 RIVERSIDE, CA 92507 PHONE: (951) 686-3633 FAX: (951) 686-3662 WEBSITE: <a href="http://WWW.GDMV.NET">WWW.GDMV.NET</a>	
BY DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING FROM GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.			
PROJECT NAME:			
PROJECT TITLE:			
MECHANICAL PLAN WALL MOUNT 36'X40'			
MFR. STRUCTURAL ENGINEER OF RECORD ON PC			
<div><div>DATE SIGNED DEC 11 2010</div><div></div></div>			
MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD			
ARCHITECT OF RECORD			
PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED			
<div>IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT PC 02-116677 FILED AC <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> SS <input checked="" type="checkbox"/> DATE: DEC 4 2018</div>			
REVISIONS			
SUBJECT NO.: 00-0000			
DRAWN BY: 00			
SCALE: AS NOTED			
DATE: 00-00-00			
SHEET NUMBER			
M1.2			



Project Name:	120X40 (PC 02-116677) - Wall AC	NRCC-PRF-01-E	Page 1 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

A. PROJECT GENERAL INFORMATION			
1. Project Location (city)	Blue Canyon	8. Standards Version	Compliance2016
2. CA Zip Code		9. Compliance Software (version)	EnergyPro 7.2
3. Climate Zone	16	10. Weather File	BLUE-CANYON_725845_CZ2010.epw
4. Total Conditioned Floor Area In Scope	4,800 ft <sup>2</sup>	11. Building Orientation (deg)	(B) 75 deg
5. Total Unconditioned Floor Area	0 ft <sup>2</sup>	12. Permitted Scope of Work	NewComplete
6. Total # of Stories (Habitable Above Grade)	1	13. Building Type(s)	Nonresidential
7. Total # of dwelling units	0	14. Gas Type	NaturalGas

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kWh/ft <sup>2</sup> -yr)					§ 140.1
BUILDING COMPLIES					
1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard	
Space Heating	34.88	62.69	-27.81	-79.7%	
Space Cooling	50.58	56.39	-5.81	-11.5%	
Indoor Fans	103.99	60.06	43.93	42.2%	
Heat Rejection	--	--	--	--	
Pumps & Misc.	--	--	--	--	
Domestic Hot Water	12.00	12.00	--	0.0%	
Indoor Lighting	48.83	33.57	15.26	31.3%	
<b>COMPLIANCE TOTAL</b>	<b>250.28</b>	<b>224.71</b>	<b>25.57</b>	<b>10.2%</b>	
Receptacle	64.48	64.48	0.0	0.0%	
Process	--	--	--	--	
Other Ltg	--	--	--	--	
Process Motors	--	--	--	--	
<b>TOTAL</b>	<b>314.76</b>	<b>289.19</b>	<b>25.6</b>	<b>8.1%</b>	

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-09132018-5583 Report Generated at: 2018-09-20 13:51:13

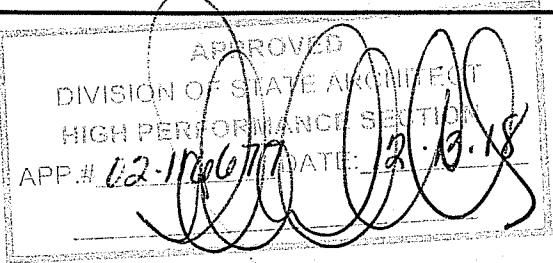
Project Name:	120X40 (PC 02-116677) - Wall AC	NRCC-PRF-01-E	Page 2 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (In order of highest to lowest TDV energy savings)			
1st	Indoor Fans: Check envelope and mechanical	<div>Compliance Margin By Energy Component (from Table B column 4)</div>	
2nd	Indoor Lighting: Check lighting		
3rd	Heat Rejection: Check envelope and mechanical		
4th	Pumps & Misc.: Check mechanical		
5th	Domestic Hot Water: Check mechanical		
6th	Space Cooling: Check envelope and mechanical		
7th	Space Heating: Check envelope and mechanical		

**D. 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.  
This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(e) Automatic Daylighting Controls in Secondary Daylit Zones is required.

**E. HERS VERIFICATION**  
This Section Does Not Apply

**F. ADDITIONAL REMARKS**  
Standard Building (Compliance)



CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-09132018-5583 Report Generated at: 2018-09-20 13:51:13

Project Name:	120X40 (PC 02-116677) - Wall AC	NRCC-PRF-01-E	Page 4 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY			
The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.		The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.	
Yes	NA	Prescriptive Requirement	Compliance Forms
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lighting (Sign) §140.8	NRCC-LTS-01-E
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solar Thermal Water Heating §140.5	NRCC-STH-01-E

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-09132018-5583 Report Generated at: 2018-09-20 13:51:13

Project Name:	120X40 (PC 02-116677) - Wall AC	NRCC-PRF-01-E	Page 7 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) - Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.				Confirmed	
Building Component	Compliance Forms (required for submittal)	Pass	Fail	Pass	Fail
Covered Process	<input type="checkbox"/> NRCI-PRC-01-E Covered Processes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-01-F Compressed Air Systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-02-F Kitchen Exhaust	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-03-F Garage Exhaust	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-04-F Refrigerated Warehouse- Evaporator Fan Motor Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-05-F Refrigerated Warehouse- Evaporative Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-06-F Refrigerated Warehouse- Air Cooled Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-07-F Refrigerated Warehouse- Variable Speed Compressor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCA-PRC-08-F Electrical Resistance Underlath Heating System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)					Confirmed	
1.	2.	3.	4.	5.	6.	7.
1. Total Conditioned Floor Area	4,800 ft <sup>2</sup>	5. Number of Floors Above Grade	1	6. Number of Floors Below Grade	0	7. Confirmation
2. Total Unconditioned Floor Area	0 ft <sup>2</sup>					
3. Addition Conditioned Floor Area	0 ft <sup>2</sup>					
4. Addition Unconditioned Floor Area	0 ft <sup>2</sup>					
7. Opaque Surfaces & Orientation		8. Total Gross Surface Area	9. Total Penetration Area	10. Window to Wall Ratio	Pass	Fail
North Wall		1,200 ft <sup>2</sup>	160 ft <sup>2</sup>	13.3%	<input type="checkbox"/>	<input type="checkbox"/>
East Wall		400 ft <sup>2</sup>	0 ft <sup>2</sup>	0.0%	<input type="checkbox"/>	<input type="checkbox"/>
South Wall		1,200 ft <sup>2</sup>	160 ft <sup>2</sup>	13.3%	<input type="checkbox"/>	<input type="checkbox"/>
West Wall		400 ft <sup>2</sup>	0 ft <sup>2</sup>	0.0%	<input type="checkbox"/>	<input type="checkbox"/>
Total		3,200 ft <sup>2</sup>	320 ft <sup>2</sup>	10.0%	<input type="checkbox"/>	<input type="checkbox"/>
Roof		4,800 ft <sup>2</sup>	30 ft <sup>2</sup>	0.6%	<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-09132018-5583 Report Generated at: 2018-09-20 13:51:13

Project Name:	120X40 (PC 02-116677) - Wall AC	NRCC-PRF-01-E	Page 8 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

J. PENETRATION ASSEMBLY SUMMARY										§ 110.6	Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Pass	Fail
Penetration Assembly Name / Tag or ID	Penetration Type / Product Type / Frame Type	Certification Method <sup>1</sup>	Assembly Method	Area ft <sup>2</sup>	Overall U-Factor	Overall SHGC	Overall VT	Shading Device	Shading Coefficient	Shading Factor	Pass	Fail
Sierra Pacific Windows	Vertical Fenestration Fixed Window N/A	NFRC Rated	Manufactured	320	0.35	0.24	0.50	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sola tube	Skylight Fixed Window N/A	NFRC Rated	Manufactured	30	0.39	0.37	0.50	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> Newly installed fenestration shall have a certified NFRC Label Certificate or use the CCC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for glass-only, determined by the manufacturer, and are shown for ease of verification. See built fenestration values are calculated per Nonresidential Appendix NRG and are used in the analysis.

<sup>2</sup> Status: N = New, A = Altered, E = Existing

Taking compliance credit for fenestration shading devices? (If "Yes", see NRCC-PRF-ENV-DETAILS for more information)

K. OPAQUE SURFACE ASSEMBLY SUMMARY										§ 120.7 / § 140.3	Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Pass	Fail
Surface Name	Surface Type	Area (ft <sup>2</sup> )	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Shading Device	Shading Coefficient	Shading Factor	Shading Factor	Pass	Fail
R-19 Wall Metal Studs	Exterior Wall	3200	Metal	19	4	U-Factor: 0.097					<input type="checkbox"/>	<input type="checkbox"/>
Raised Slab Floor with R-12	Exterior Floor	4800	Metal	11	NA	U-Factor: 0.097					<input type="checkbox"/>	<input type="checkbox"/>
Standing Seam R-30 Metal14	Roof	4800	NA	30	NA	U-Factor: 0.072					<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> Status: N = New, A = Altered, E = Existing

L. ROOFING PRODUCT SUMMARY							§ 140.3	Confirmed	
1.	2.	3.	4.	5.	6.	7.	8.	Pass	Fail
Product Type	Product Density (lb/ft <sup>3</sup> )	Aged Solar Reflectance	Thermal Emittance	SRI	Cool Roof Credit	Roofing Product Description	Roofing Product Description	Pass	Fail
Standing Seam R-30 Metal14	2.543	0.08	0.75	NA	No	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-09132018-5583 Report Generated at: 2018-09-20 13:51:13

Project Name:	120X40 (PC 02-116677) - Wall AC	NRCC-PRF-01-E	Page 3 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY			
Identify which building components use the performance or prescriptive path for compliance. "NA" = not in project			
For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.			
Building Component	Compliance Path	Compliance Forms (required for submittal)	Location of Mandatory Notes on Plans
Envelope	<input checked="" type="checkbox"/> Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	<input type="checkbox"/> Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 05-E	
Mechanical	<input checked="" type="checkbox"/> Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	<input type="checkbox"/> Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
Domestic Hot Water	<input checked="" type="checkbox"/> Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	<input type="checkbox"/> Prescriptive	NRCC-PLB-01-E	
Lighting (Indoor Conditioned)	<input checked="" type="checkbox"/> Performance	NRCC-PRF-LIT-DETAILS (section of the NRCC-PRF-01-E)	
	<input type="checkbox"/> Prescriptive	NRCC-LIT-01 / 02 / 03 / 04 / 05-E	
Covered Process: Commercial Kitchens	<input type="checkbox"/> Performance	§2 (section of the NRCC-PRF-01-E)	
	<input type="checkbox"/> Prescriptive	NRCC-PRC-01 / 03-E	
Covered Process: Computer Rooms	<input type="checkbox"/> Performance	§3 (section of the NRCC-PRF-01-E)	
	<input type="checkbox"/> Prescriptive	NRCC-PRC-01 / 04-E	
Covered Process: Laboratory Exhaust	<input type="checkbox"/> Performance	§4 (section of the NRCC-PRF-01-E)	
	<input type="checkbox"/> Prescriptive	NRCC-PRC-01 / 09-E	

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-09132018-5583 Report Generated at: 2018-09-20 13:51:13

Project Name:	120X40 (PC 02-116677) - Wall AC	NRCC-PRF-01-E	Page 6 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) - Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance (Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify). See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms by equipment.				Confirmed	
Building Component	Compliance Forms (required for submittal)	Pass	Fail	Pass	Fail
Plumbing	<input checked="" type="checkbox"/> NRCI-PLB-01-E - For all buildings with Plumbing Systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCC-PLB-21-H - HERS verified central systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCC-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-STH-01-E - Any solar water heating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Indoor Lighting	<input checked="" type="checkbox"/> NRCI-LTI-01-E - For all buildings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-LTI-03-A - Automatic daylighting controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outdoor Lighting	<input type="checkbox"/> NRCA-LTI-04-A - Demand responsive lighting controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCI-LTO-01-E - Outdoor Lighting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/> NRCI-LTO-02-E - EMCS Lighting Control System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> NRCA-LTO-02-A - Outdoor Lighting Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sign Lighting	<input type="checkbox"/> NRCI-LTS-01-E - Sign Lighting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical	<input checked="" type="checkbox"/> NRCI-ELC-01-E - Electrical Power Distribution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Photovoltaic	<input type="checkbox"/> NRCI-SPV-01-E Photovoltaic Systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-09132018-5583 Report Generated at: 2018-09-20 13:51:13

Project Name:	120X40 (PC 02-116677) - Wall AC	NRCC-PRF-01-E	Page 9 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

M. HVAC SYSTEM SUMMARY (see NRCC-PR
-------------------------------------



Project Name:	120X40 (PC 02-11667) - Wall AC	NRCC-PRF-01-E	Page 10 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

O. EQUIPMENT CONTROLS				\$ 120.2	Confirmed
1.	2.	3.			
Equip Name	Equip Type	Controls		Pass	Fail
AC-1	SPVHP	No DCV Controls No Economizer No Supply Air Temp. Control No Optimum Start No Evaporative Cooler No Heat Recovery		<input type="checkbox"/>	<input type="checkbox"/>

P. SYSTEM DISTRIBUTION SUMMARY							\$ 120.4/ § 140.4(i)		Confirmed	
1.	2.	3.	4.	5.	6.	Pass	Fail			
Equip Name	Equip Type	Duct Leakage and Sealing Required per 140.4(i)	Duct Leakage will be verified per NA1 and NA2	Ducts Insulation R-Value	Location					
AC-1	SPVHP	No	No	8.0	Unconditioned	N	<input type="checkbox"/>	<input type="checkbox"/>		

Notes: N - New, E - Existing	
Does the Project Include Zonal Systems? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Does the Project Include a Solar Hot Water System? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Multifamily or Hotel/Motel Occupancy? (If "Yes", see NRCC-PRF-MCH-DETAILS for DHW system information)	No

Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info) <sup>9</sup>						\$ 140.6	
						Confirmed	
1.	2.	3.	4.	5.			
Occupancy Type <sup>1</sup>	Conditioned Floor Area <sup>2</sup> (ft <sup>2</sup> )	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance		Pass	Fail
				Area Category Footcandles (Watts)	Tailored Method (Watts)		
Classrooms, Lecture, Training, Vocational Areas	4,800	3,300	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Building Totals:	4,800	3,300	0	0	0		

<sup>1</sup> See Table 200.2-C

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-09132018-5583 Report Generated at: 2018-09-20 13:51:13

Project Name:	120X40 (PC 02-11667) - Wall AC	NRCC-PRF-01-E	Page 11 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E) <sup>1</sup>							\$ 130.0		Confirmed	
Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft <sup>2</sup> in offices)							Pass	Fail		
Name or Item Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, 132/16, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined		Total Number Luminaires	Installed Watts				
			CFC Default from NAE	According to §130.0(i)						
L-1	2X4 LED	55	No	Yes	60	3,300	<input type="checkbox"/>	<input type="checkbox"/>		

<sup>1</sup> If lighting power densities were used in the compliance model Building departments will need to check prescriptive forms for Luminaire Schedule details.

<b>S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES</b>	<b>\$ 140.9</b>
This Section Does Not Apply	

<b>S2. COVERED PROCESS SUMMARY – COMMERCIAL KITCHENS</b>	<b>\$ 140.9</b>
This Section Does Not Apply	

<b>S3. COVERED PROCESS SUMMARY – COMPUTER ROOMS</b>	<b>\$ 140.9</b>
This Section Does Not Apply	

<b>S4. COVERED PROCESS SUMMARY – LABORATORY EXHAUSTS</b>	<b>\$ 140.9</b>
This Section Does Not Apply	

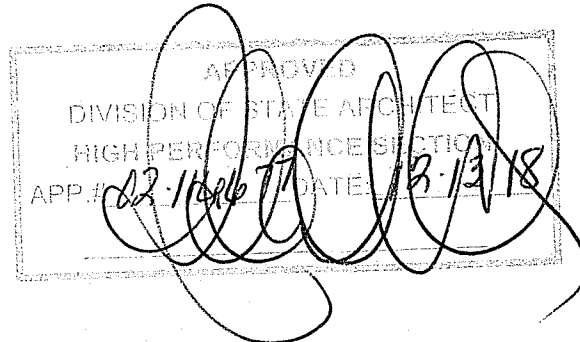
<b>T. UNMET LOAD HOURS</b>	
This Section Does Not Apply	

U. 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	—	17.8	—	104.3	—	—		
Space Cooling	5.1	6.3	-1.2	—	—	—		

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-09132018-5583 Report Generated at: 2018-09-20 13:51:13

Project Name:	120X40 (PC 02-11667) - Wall AC	NRCC-PRF-01-E	Page 12 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

U. 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)		
Indoor Fans	22.0	13.0	9.0	—	—	—		
Heat Rejection	—	—	—	—	—	—		
Pumps & Misc.	—	—	—	—	—	—		
Domestic Hot Water	—	—	—	40.0	40.0	0.0		
Indoor Lighting	9.8	6.7	3.1	—	—	—		
<b>COMPLIANCE TOTAL</b>	<b>36.9</b>	<b>43.8</b>	<b>-6.9</b>	<b>144.3</b>	<b>40.0</b>	<b>104.3</b>		
Receptacle	12.7	12.7	0.0	—	—	—		
Process	—	—	—	—	—	—		
Other Ltg	—	—	—	—	—	—		
Process Motors	—	—	—	—	—	—		
<b>TOTAL</b>	<b>49.6</b>	<b>56.5</b>	<b>-6.9</b>	<b>144.3</b>	<b>40.0</b>	<b>104.3</b>		



CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-09132018-5583 Report Generated at: 2018-09-20 13:51:13

Project Name:	120X40 (PC 02-11667) - Wall AC	NRCC-PRF-01-E	Page 13 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

<b>DOCUMENTATION AUTHOR'S DECLARATION STATEMENT</b>	<b>\$ 10-103</b>
I certify that this Certificate of Compliance documentation is accurate and complete.	

Documentation Author Name: LAL B. SAHGAJ	Signature: <i>Lal Sahgal</i>
Company: LSA CONSULTING ENGINEERS	
Address: 83, WINDSWEEP WAY	Signature Date: 12-6-18
City/State/Zip: MISSION VIEJO CA, 92692	CEA Identification (if applicable): M26885
Phone: (949)930-4746	

<b>RESPONSIBLE PERSON'S DECLARATION STATEMENT</b>	
I certify the following under penalty of perjury, under the laws of the State of California:	

1	I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.	
2	I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.	
3	I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.	

Responsible Envelope Designer Name: James T. Simpson	Signature: <i>James T. Simpson</i>
Company: ENI Structural Engineers, Inc	
Address: 4091 Riverdale Drive, Suite #114	Date Signed: 7 Dec 2018
City/State/Zip: Chino, CA 91710	Declaration Statement Type:
Phone: (909) 513-0234	Title: Structural Engineer License #: S-3907
Responsible Lighting Designer Name:	Signature:
Company: Impact Construction Services Inc.	
Address: 1050 W. Harley Knox Blvd.	Date Signed: 12/1/18
City/State/Zip: Perris Ca, 92571	Declaration Statement Type:
Phone: (951) 943-8999	Title: Project Manager License #: 945691
Responsible Mechanical Designer Name: Lal Sahgal	Signature: <i>Lal Sahgal</i>
Company: LSA Consulting Engineers	
Address: 83, Windsweep Way	Date Signed: 12-6-18
City/State/Zip: Mission Viejo Ca, 92692	Declaration Statement Type:
Phone:	Title: License #:

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-09132018-5583 Report Generated at: 2018-09-20 13:51:13

Project Name:	120X40 (PC 02-11667) - Wall AC	NRCC-PRF-01-E	Page 14 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

#### NRCC-PRF-ENV-DETAILS-SECTION START-

A. OPAQUE SURFACE ASSEMBLY DETAILS				Confirmed	
1.	2.	3.	4.	Pass	Fail
Surface Name	Surface Type	Description of Assembly Layers	Notes		
R-19 Wall Metal Stud5	Exterior/Wall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Metal framed wall, 24in. OC, 5.5in., R-19 Gypsum Board - 1/2 in. Expanded Polystyrene - EPS - 1 in. R4.2		<input type="checkbox"/>	<input type="checkbox"/>
Raised Slab Floor with R-12	Exterior/Floor	Concrete - 140 lb/ft <sup>3</sup> - 4 in. Metal framed floor, 24in. OC, 5.5in., R-11 Curjet - 3/4 in.		<input type="checkbox"/>	<input type="checkbox"/>
Standing Seam R-30 Metal4	Roof	Metal Standing Seam - 1/16 in. Metal standing seam roof, R-30		<input type="checkbox"/>	<input type="checkbox"/>

<b>B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)</b>	
This Section Does Not Apply	

<b>C. OPAQUE DOOR SUMMARY</b>	
This Section Does Not Apply	

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-09132018-5583 Report Generated at: 2018-09-20 13:51:13

Project Name:	120X40 (PC 02-11667) - Wall AC	NRCC-PRF-01-E	Page 15 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

#### NRCC-PRF-MCH-DETAILS-SECTION START-

A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2016-NRCC-MCH-03-E)																Confirmed			
1. DESIGN AIR FLOWS										2. VENTILATION (S 22D.3)						Pass	Fail		
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DUC CONTROL (V/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIGN MIN. OF PEOPLE	MIN. VENT PER PERSON (CFM/person)	REQD VENT AIR FLOW (CFM)	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)			Operable Windows (min/max 100 ft2 (V/N))	
1-First Floor	AC-1	5,500	NA	0.00	NA	NA	N	AC-1	4,800	NA	120.0	0	15.00	1,800	1,800	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>
								TOTAL	4,800		120.0	0		1,800	1,800	NA		<input type="checkbox"/>	<input type="checkbox"/>

B. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY													\$ 140.4	
1.	2.	3.	4.		5.	6.	7.			8.		Confirmed		
System ID	System Type	Qty	Rated Capacity (kBtu/h)		Economizer	Zone Name	Airflow (cfm)			Fan		Pass	Fail	
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles			ECM Motor
1-First Floor-Trm	Uncontrolled	5	NA	NA	NA	1-First Floor	5500	NA	0.00	NA	NA	<input type="checkbox"/>	<input type="checkbox"/>	

<b>C. EXHAUST FAN SUMMARY</b>	
This Section Does Not Apply	

<b>D. DHW EQUIPMENT SUMMARY – (Adapted from NRCC-PLB-01)</b>	
This Section Does Not Apply	

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-09132018-5583 Report Generated at: 2018-09-20 13:51:13

Project Name:	120X40 (PC 02-11667) - Wall AC	NRCC-PRF-01-E	Page 16 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

<b>E. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS</b>	
This Section Does Not Apply	

<b>F. SOLAR HOT WATER HEATING SUMMARY (Adapted from NRCC-STH-01)</b>	
This Section Does Not Apply	

G. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E)															\$ RA4	
Declaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for field inspector to verify).															Confirmed	
Test Description	MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A		
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Duct Leaks	Economizer Controls	DCV	Supply Fan AW	Vane Balances	Reheat	Hyd. Variable Flow Control	Auto Demand Stand Still	TD for EX RH	Zone	TD for EX RH	Pass	Fail
AC-1	5	X	—	—	—	—	—	—	—	—	—	—	—	—	<input type="checkbox"/>	<input type="checkbox"/>

<b>H. EVAPORATIVE COOLER SUMMARY</b>	
This Section Does Not Apply	

<b>NRCC-PRF-LTI-DETAILS-SECTION START-</b>	
<b>A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E)</b>	<b>\$ 140.6</b>
This Section Does Not Apply	

<b>B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E)</b>	<b>\$ 130.1</b>
This Section Does Not Apply	

<sup>1</sup> See Table 200.2-C

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-09132018-5583 Report Generated at: 2018-09-20 13:51:13

Project Name:	120X40 (PC 02-11667) - Wall AC	NRCC-PRF-01-E	Page 17 of 18
Project Address:	Climate Zone 16 Blue Canyon	Calculation Date/Time:	13:50, Thu, Sep 20, 2018
Compliance Scope:	NewComplete	Input File Name:	120X40 PC - CZ16(Wall AC)75 SPVHP.cbd16x

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E)		\$ 140.6
General lighting power (see Table C)		0
General lighting power from special function areas (see Table E)		NA
Additional "use it or lose it" (See Table G)		0
	Total watts	0



ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL ENV-MM

Project Name: 120X40 (PC 02-116677) - Wall AC Date: 9/20/2018

DESCRIPTION

Building Envelope Measures:

§110.8(a): Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.

§110.8(c): All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2902 and 707 of Title 24, Part 2.

§110.8(g): Heated slab floors shall be insulated according to the requirements in Table 110.8-A.

§110.7(a): All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.

§110.8(b): Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft² of window area, 0.3 cfm/ft² of door area for residential doors, 0.3 cfm/ft² of door area for nonresidential single doors (excluding sliding), and 1.0 cfm/ft² for nonresidential double doors (excluding).

§110.8(a): Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.

§110.8(a): Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.

§110.8(b): Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).

§110.8(b): The opaque portions of the roof/ceiling that separates conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor requirements as follows:

§120.7(a): Metal Building- The weighted average U-factor of the roof assembly shall not exceed 0.098. Wood Framed and Others- The weighted average U-factor of the roof assembly shall not exceed 0.075. The opaque portions of walls that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor as follows:

§120.7(b): Metal Building- The weighted average U-factor of the wall assembly shall not exceed 0.113. Metal Framed- The weighted average U-factor of the wall assembly shall not exceed 0.151. Light Mass Walls- A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.440. Heavy Mass Walls- An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.690. Wood Framed and Others- The weighted average U-factor of the wall assembly shall not exceed 0.110. Spanel Panels and Opaque Curtain Wall- The weighted average U-factor of the spandrel panels and opaque curtain wall assembly shall not exceed 0.280. Demising Walls- The opaque portions of framed demising walls shall meet the requirements of Item A or B below: A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.099. B. Metal Framed walls shall be insulated to meet a U-factor not greater than 0.151. The opaque portions of floors and soffits that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor requirements as follows:

§120.7(c): Raised Mass Floors- Shall have a minimum of 3 inches of lightweight concrete over a metal deck or the weighted average U-factor of the floor assembly shall not exceed 0.269. Other Floors- The weighted average U-factor of the floor assembly shall not exceed 0.071.

STATE OF CALIFORNIA WATER HEATING SYSTEM GENERAL INFORMATION CEC-NRCC-PLB-01-E (Revised 09/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-01-E Water Heating System General Information Project Name: 24-120x40 PC (02-116677) Date Prepared: 09/12/18 (Page 1 of 2)

A. GENERAL INFORMATION/SYSTEM INFORMATION

01 Water Heater System Name: WH-1

02 Water Heater System Configuration: Single Dwelling Unit

03 Water Heater System Type: Domestic Hot Water

04 Building Type: Nonresidential

05 Total Number of Water Heaters in Systems: 1

06 Central DHW Distribution Type: Other

07 Dwelling Unit DHW Distribution Type: Standard Distribution System (STD)

B. WATER HEATER INFORMATION

Each water heater type requires a separate form.

01 Water Heater Type: Small Storage - Electric

02 Fuel Type: Electricity

03 Manufacture Name: Bradford White

04 Model Number: RE16UG

05 Number of Identical Water Heaters: None

06 Installed Water Heater System Efficiency: 0.96-(0.00132\*V)

07 Required Minimum Efficiency: 0.96-(0.00132\*V)

08 Standby Loss Percent or Standby Loss Total: 0.96-(0.00132\*V)

09 Rated Input: 0.96-(0.00132\*V)

10 Pilot Energy: 0.96-(0.00132\*V)

11 Water Heater Tank Storage Volume: 6

12 Exterior Insulation on Water Heater: None

13 Volume of Supplemental Storage: N/A

14 Internal Insulation on Supplemental Storage: N/A

15 Exterior Insulation on Supplemental Storage: N/A

C. PLUMBING COMPLIANCE FORMS & WORKSHEETS

(check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2013 Nonresidential Manual. Note: The Enforcement Agency may require all forms to be incorporated into the building plans.

YES NO Form/Worksheet # Title

01 NRCC-PLB-01-E Certificate of Compliance, Declaration, Required on plans for all submittals.

02 NRCL-PLB-01-E Certificate of Installation, Required on plans for all submittals.

03 NRCL-PLB-02-E Certificate of Installation, required on central systems in high-rise residential, hotel/motel application.

04 NRCL-PLB-03-E Certificate of Installation, required on single dwelling unit systems in high-rise residential, hotel/motel application.

05 NRCL-PLB-21-H Certificate of Installation, required on HERS verified central systems in high-rise residential, hotel/motel application.

06 NRCL-PLB-22-H Certificate of Installation, required on HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.

07 NRCL-STH-01-E Certificate of Installation, required on any solar water heating.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA WATER HEATING SYSTEM GENERAL INFORMATION CEC-NRCC-PLB-01-E (Revised 09/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-01-E Water Heating System General Information Project Name: 24-120x40 PC (02-116677) Date Prepared: 09/12/18 (Page 2 of 2)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I, the undersigned, certify that the information provided on this Certificate of Compliance is accurate and complete.

Documentation Author Name: Jeffrey C. Chan-Lagay Signature Date: 11/06/18

Company: Impact Construction Services, Inc. Address: 1200 Harley Knox Blvd, Perris, CA 92571 Phone: (951) 943-9999

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I, the undersigned, certify that the information provided on this Certificate of Compliance is accurate and complete.

Responsible Person Name: James T. Simpson Signature Date: 11-7-2018

Company: EXL Structural Engineers, Inc. Address: 4091 Riverside Drive, Suite #114, Chino, CA 91710 Phone: (909) 613-0234

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA WATER HEATING SYSTEM GENERAL INFORMATION CEC-NRCC-PLB-01-E (Revised 09/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-01-E Water Heating System General Information Project Name: 24-120x40 PC (02-116677) Date Prepared: 09/12/18 (Page 1 of 2)

A. GENERAL INFORMATION/SYSTEM INFORMATION

01 Water Heater System Name: WH-2

02 Water Heater System Configuration: Single Dwelling Unit

03 Water Heater System Type: Domestic Hot Water

04 Building Type: Nonresidential

05 Total Number of Water Heaters in Systems: 1

06 Central DHW Distribution Type: Other

07 Dwelling Unit DHW Distribution Type: Standard Distribution System (STD)

B. WATER HEATER INFORMATION

Each water heater type requires a separate form.

01 Water Heater Type: Small Storage - Electric

02 Fuel Type: Electricity

03 Manufacture Name: Bradford White

04 Model Number: RE12UG

05 Number of Identical Water Heaters: None

06 Installed Water Heater System Efficiency: 0.96-(0.00132\*V)

07 Required Minimum Efficiency: 0.96-(0.00132\*V)

08 Standby Loss Percent or Standby Loss Total: 0.96-(0.00132\*V)

09 Rated Input: 0.96-(0.00132\*V)

10 Pilot Energy: 0.96-(0.00132\*V)

11 Water Heater Tank Storage Volume: 12

12 Exterior Insulation on Water Heater: None

13 Volume of Supplemental Storage: N/A

14 Internal Insulation on Supplemental Storage: N/A

15 Exterior Insulation on Supplemental Storage: N/A

C. PLUMBING COMPLIANCE FORMS & WORKSHEETS

(check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2013 Nonresidential Manual. Note: The Enforcement Agency may require all forms to be incorporated into the building plans.

YES NO Form/Worksheet # Title

01 NRCC-PLB-01-E Certificate of Compliance, Declaration, Required on plans for all submittals.

02 NRCL-PLB-01-E Certificate of Installation, Required on plans for all submittals.

03 NRCL-PLB-02-E Certificate of Installation, required on central systems in high-rise residential, hotel/motel application.

04 NRCL-PLB-03-E Certificate of Installation, required on single dwelling unit systems in high-rise residential, hotel/motel application.

05 NRCL-PLB-21-H Certificate of Installation, required on HERS verified central systems in high-rise residential, hotel/motel application.

06 NRCL-PLB-22-H Certificate of Installation, required on HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.

07 NRCL-STH-01-E Certificate of Installation, required on any solar water heating.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA WATER HEATING SYSTEM GENERAL INFORMATION CEC-NRCC-PLB-01-E (Revised 09/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-01-E Water Heating System General Information Project Name: 24-120x40 PC (02-116677) Date Prepared: 09/12/18 (Page 2 of 2)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I, the undersigned, certify that the information provided on this Certificate of Compliance is accurate and complete.

Documentation Author Name: Jeffrey C. Chan-Lagay Signature Date: 11/06/18

Company: Impact Construction Services, Inc. Address: 1200 Harley Knox Blvd, Perris, CA 92571 Phone: (951) 943-9999

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I, the undersigned, certify that the information provided on this Certificate of Compliance is accurate and complete.

Responsible Person Name: James T. Simpson Signature Date: 11-7-2018

Company: EXL Structural Engineers, Inc. Address: 4091 Riverside Drive, Suite #114, Chino, CA 91710 Phone: (909) 613-0234

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA WATER HEATING SYSTEM GENERAL INFORMATION CEC-NRCC-PLB-01-E (Revised 09/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-01-E Water Heating System General Information Project Name: 24-120x40 PC (02-116677) Date Prepared: 09/12/18 (Page 1 of 2)

A. GENERAL INFORMATION/SYSTEM INFORMATION

01 Water Heater System Name: WH-3

02 Water Heater System Configuration: Single Dwelling Unit

03 Water Heater System Type: Domestic Hot Water

04 Building Type: Nonresidential

05 Total Number of Water Heaters in Systems: 1

06 Central DHW Distribution Type: Other

07 Dwelling Unit DHW Distribution Type: Standard Distribution System (STD)

B. WATER HEATER INFORMATION

Each water heater type requires a separate form.

01 Water Heater Type: Storage Tank

02 Fuel Type: Gas

03 Manufacture Name: Bradford White

04 Model Number: U-50T-55FR-3N

05 Number of Identical Water Heaters: None

06 Installed Water Heater System Efficiency: 0.675-(0.0015\*V)

07 Required Minimum Efficiency: 0.675-(0.0015\*V)

08 Standby Loss Percent or Standby Loss Total: 0.675-(0.0015\*V)

09 Rated Input: 0.675-(0.0015\*V)

10 Pilot Energy: 0.675-(0.0015\*V)

11 Water Heater Tank Storage Volume: 48

12 Exterior Insulation on Water Heater: None

13 Volume of Supplemental Storage: N/A

14 Internal Insulation on Supplemental Storage: N/A

15 Exterior Insulation on Supplemental Storage: N/A

C. PLUMBING COMPLIANCE FORMS & WORKSHEETS

(check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2013 Nonresidential Manual. Note: The Enforcement Agency may require all forms to be incorporated into the building plans.

YES NO Form/Worksheet # Title

01 NRCC-PLB-01-E Certificate of Compliance, Declaration, Required on plans for all submittals.

02 NRCL-PLB-01-E Certificate of Installation, Required on plans for all submittals.

03 NRCL-PLB-02-E Certificate of Installation, required on central systems in high-rise residential, hotel/motel application.

04 NRCL-PLB-03-E Certificate of Installation, required on single dwelling unit systems in high-rise residential, hotel/motel application.

05 NRCL-PLB-21-H Certificate of Installation, required on HERS verified central systems in high-rise residential, hotel/motel application.

06 NRCL-PLB-22-H Certificate of Installation, required on HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.

07 NRCL-STH-01-E Certificate of Installation, required on any solar water heating.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA WATER HEATING SYSTEM GENERAL INFORMATION CEC-NRCC-PLB-01-E (Revised 09/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-01-E Water Heating System General Information Project Name: 24-120x40 PC (02-116677) Date Prepared: 09/12/18 (Page 2 of 2)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I, the undersigned, certify that the information provided on this Certificate of Compliance is accurate and complete.

Documentation Author Name: Jeffrey C. Chan-Lagay Signature Date: 11/06/18

Company: Impact Construction Services, Inc. Address: 1200 Harley Knox Blvd, Perris, CA 92571 Phone: (951) 943-9999

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I, the undersigned, certify that the information provided on this Certificate of Compliance is accurate and complete.

Responsible Person Name: James T. Simpson Signature Date: 11-7-2018

Company: EXL Structural Engineers, Inc. Address: 4091 Riverside Drive, Suite #114, Chino, CA 91710 Phone: (909) 613-0234

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA WATER HEATING SYSTEM GENERAL INFORMATION CEC-NRCC-PLB-01-E (Revised 09/15) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-PLB-01-E Water Heating System General Information Project Name: 24-120x40 PC (02-116677) Date Prepared: 09/12/18 (Page 1 of 2)

A. GENERAL INFORMATION/SYSTEM INFORMATION

01 Water Heater System Name: WH-4

02 Water Heater System Configuration: Single Dwelling Unit

03 Water Heater System Type: Domestic Hot Water

04 Building Type: Nonresidential

05 Total Number of Water Heaters in Systems: 1

06 Central DHW Distribution Type: Other

07 Dwelling Unit DHW Distribution Type: Standard Distribution System (STD)

B. WATER HEATER INFORMATION

Each water heater type requires a separate form.

01 Water Heater Type: Instantaneous Small - Electric

02 Fuel Type: Electricity

03 Manufacture Name: Chromonite

04 Model Number: M-20/120

05 Number of Identical Water Heaters: None

06 Installed Water Heater System Efficiency: 0.93-(0.00132\*V)

07 Required Minimum Efficiency: 0.93-(0.00132\*V)

08 Standby Loss Percent or Standby Loss Total: 0.93-(0.00132\*V)

09 Rated Input: 0.93-(0.00132\*V)

10 Pilot Energy: 0.93-(0.00132\*V)

11 Water Heater Tank Storage Volume: Instant

12 Exterior Insulation on Water Heater: None

13 Volume of Supplemental Storage: N/A

14 Internal Insulation on Supplemental Storage: N/A

15 Exterior Insulation on Supplemental Storage: N/A

C. PLUMBING COMPLIANCE FORMS & WORKSHEETS

(check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2013 Nonresidential Manual. Note: The Enforcement Agency may require all forms to be incorporated into the building plans.

YES NO Form/Worksheet # Title

01 NRCC-PLB-01-E Certificate of Compliance, Declaration, Required on plans for all submittals.

02 NRCL-PLB-01-E Certificate of Installation, Required on plans for all submittals.

03 NRCL-PLB-02-E Certificate of Installation, required on central systems in high-rise residential, hotel/motel application.

04 NRCL-PLB-03-E Certificate of Installation, required on single dwelling unit systems in high-rise residential, hotel/motel application.

05 NRCL-PLB-21-H Certificate of Installation, required on HERS verified central systems in high-rise residential, hotel/motel application.

06 NRCL-PLB-22-H Certificate of Installation, required on HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.

07 NRCL-STH-01-E Certificate of Installation, required on any solar water heating.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP

DIV OF THE STATE ARCHITECT

APP: 02-118411 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 06/11/2020



CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION 1200 AIRPORT DRIVE, CHOWCHILLA, CA 93610  
PHONE: (559) 865-5800 FAX: (559) 865-5700 WEBSITE: WWW.GDMV.NET

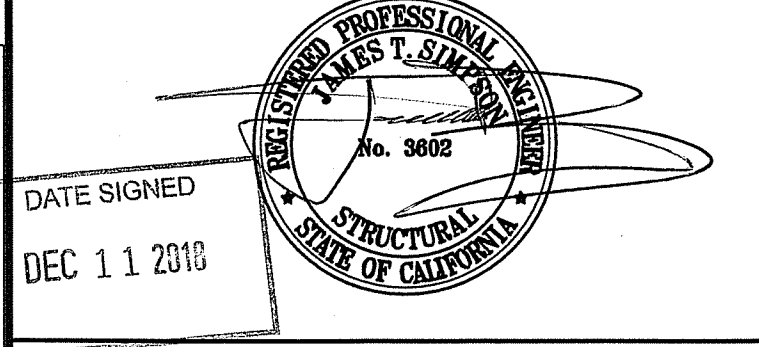
SOUTHERN CALIFORNIA DIVISION 1660 CHICAGO AVE., SUITE #M-21, RIVERSIDE, CA 92507  
PHONE: (951) 886-3633 FAX: (951) 886-3662 WEBSITE: WWW.GDMV.NET

PROJECT NAME:

SHEET TITLE:

TITLE 24 REPORTS  
3 OF 9

MFR. STRUCTURAL ENGINEER OF RECORD ON PC



MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP

DIV OF THE STATE ARCHITECT

PC 02-116677

FILE # 02-116677

DATE: DEC 14 2018

REVISIONS

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00

SHEET NUMBER

M3.2



August 2015April 2018April 2011

April 2016

December 2011December 2011December 2011

### M3.3



STATE OF CALIFORNIA  
Solar Ready Areas  
NRC-SPV-01-E (Created 12/17)  
CERTIFICATE OF COMPLIANCE  
Project Name: 24-120x40 (PC# 02-116677) Report Page: Page 4 of 5  
Project Address: Palm Springs (Climate Zone #15) Date Prepared: 9/9/2018

**J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at <http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCL>

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCL-SPV-01-E - Must be submitted for all newly installed Photovoltaic Systems (PV) being used to comply with §110.10(b)18 for high-rise multifamily, Hotel/Motel buildings less than 10 stories and nonresidential buildings less than 4 stories.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCL-STW-01-E - Must be submitted for all newly installed Solar Water Heating systems being used to comply with §110.10(b)18 for high-rise multifamily, Hotel/Motel buildings less than 10 stories and nonresidential buildings less than 4 stories.	<input type="checkbox"/>	<input type="checkbox"/>

**K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
There are no Certificates of Acceptance applicable to solar ready requirements.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards> December 2017

STATE OF CALIFORNIA  
Electrical Power Distribution  
NRCC-ELC-E (Created 12/17)  
CERTIFICATE OF COMPLIANCE  
Project Name: 24-120x40 PC (02-116677) Report Page: Page 3 of 5  
Project Address: Palm Springs (Climate Zone #15) Date Prepared: 9/9/2018

**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:** 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**  
Table Instructions: Please complete this table for 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). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)(2)(ii).

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 <sup>1</sup>	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
	Permitted by CA Elec Code (Exception to §130.5(c)(1))	In construction documents		Pass	Fail
	<input checked="" type="checkbox"/> Voltage drop < 5%			<input type="checkbox"/>	<input type="checkbox"/>

**\*NOTES:** If "Permitted by CA Elec Code" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.  
**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**  
Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(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	
Electrical Service Designation/Description	Location/Type of Controlled Receptacles	Shut-Off Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
					Pass	Fail
			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

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

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards> December 2017

STATE OF CALIFORNIA  
Solar Ready Areas  
NRCC-SRA-E (Created 12/17)  
CERTIFICATE OF COMPLIANCE  
Project Name: 24-120x40 (PC# 02-116677) Report Page: Page 5 of 5  
Project Address: Palm Springs (Climate Zone #15) Date Prepared: 9/9/2018

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
Documentation Author Name: Jeffrey C. Chan-Lugay  
Company: Impact Construction Services, Inc.  
Address: 1090 Harley Knox Blvd  
City/State/Zip: Perris, CA 92571  
Phone: (951) 943-9999  
Signature Date: 11/06/18  
CEA/HERS Certification Identification (if applicable): 945691

**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: James T. Simpson  
Company: EXL Structural Engineers, Inc.  
Address: 4091 Riverside Drive, Suite #114  
City/State/Zip: Chino, CA 91710  
Phone: (909) 613-0234  
Signature Date: 11-7-2018  
License: S-3602

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards> December 2017

STATE OF CALIFORNIA  
Electrical Power Distribution  
NRCC-ELC-E (Created 12/17)  
CERTIFICATE OF COMPLIANCE  
Project Name: 24-120x40 PC (02-116677) Report Page: Page 4 of 5  
Project Address: Palm Springs (Climate Zone #15) Date Prepared: 9/9/2018

**J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at <http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCL>

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCL-ELC-01-E - Must be submitted for all buildings.	<input type="checkbox"/>	<input type="checkbox"/>

**K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
There are no Certificates of Acceptance applicable to electrical power distribution requirements.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards> December 2017

STATE OF CALIFORNIA  
Electrical Power Distribution  
NRCC-ELC-E (Created 12/17)  
CERTIFICATE OF COMPLIANCE  
Project Name: 24-120x40 PC (02-116677) Report Page: Page 2 of 5  
Project Address: Palm Springs (Climate Zone #15) Date Prepared: 9/9/2018

**D. EXCEPTIONAL CONDITIONS**  
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.  
No exceptional conditions apply to this project.

**E. ADDITIONAL REMARKS**  
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. SERVICE ELECTRICAL METERING**  
Table Instructions: Complete the table below for new or replacement electrical service systems OR equipment to demonstrate compliance with §130.5(a).

01	02	03	04	05				
Electrical Service Designation/Description	Rating (kVA)	Required Metering Capabilities per Table 130.5-A	Location of Requirements in Construction Documents	Field Inspector				
		Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period		Pass	Fail
	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

**G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING**  
Table Instructions: Complete this table for entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(b). Using the dropdown choices in column 01, indicate the load types included for each service. Any load types that are not included in the service do not need to be shown.

Electrical Service Designation/Description:

01	02	03	04	05	
Load Type per Table 130.5-B <sup>1</sup>	Minimum Required Separation of Load per Table 130.5-B	Compliance Method <sup>2</sup>	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
Lighting including exit, egress and exterior	Not required			<input type="checkbox"/>	<input type="checkbox"/>

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

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards> December 2017

STATE OF CALIFORNIA  
Electrical Power Distribution  
NRCC-ELC-E (Created 12/17)  
CERTIFICATE OF COMPLIANCE  
Project Name: 24-120x40 PC (02-116677) Report Page: Page 5 of 5  
Project Address: Palm Springs (Climate Zone #15) Date Prepared: 9/9/2018

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
Documentation Author Name: Jeffrey C. Chan-Lugay  
Company: Impact Construction Services, Inc.  
Address: 1090 Harley Knox Blvd  
City/State/Zip: Perris, CA 92571  
Phone: (951) 943-9999  
Signature Date: 11/06/18  
CEA/HERS Certification Identification (if applicable): 945691

**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: James T. Simpson  
Company: EXL Structural Engineers, Inc.  
Address: 4091 Riverside Drive, Suite #114  
City/State/Zip: Chino, CA 91710  
Phone: (909) 613-0234  
Signature Date: 11-7-2018  
License: S-3602

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards> December 2017

PROJECT SPECIFIC IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

GLOBAL MODULAR  
INCORPORATED

AURORA MODTECH  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 685-8800  
FAX: (559) 685-5700  
WEBSITE: WWW.GDMV.NET

SOUTHERN CALIFORNIA DIVISON  
1860 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3662  
WEBSITE: WWW.GDMV.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

TITLE 24 REPORTS  
5 OF 9

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

Professional Engineer Seal: James T. Simpson, No. 3802, State of California

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # PC-72  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2018

REVISIONS

△ -  
△ -  
△ -  
△ -  
△ -  
△ -  
△ -

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00

SHEET NUMBER

M3.4



STATE OF CALIFORNIA INDOOR LIGHTING – LIGHTING CONTROLS		CEC RATING SYSTEM (Division 8)		CALIFORNIA ENERGY COMMISSION		NCEC	
CERTIFICATE OF COMPLIANCE				NCEC			
Indoor Lighting – Lighting Controls				Indoor Lighting – Lighting Controls			
Project Name: 24-120x40 (PCH 02-316677)				Date Received: 09/16/18			
The NRC-C21-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.							
<b>A. Mandatory Lighting Control Declaration Statements</b> (Indicate if the measure applies by checking yes or no below.)							
YES	NO	Control Requirements					
<input type="radio"/>	<input type="radio"/>	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.					
<input checked="" type="radio"/>	<input type="radio"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).					
<input checked="" type="radio"/>	<input type="radio"/>	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).					
<input checked="" type="radio"/>	<input type="radio"/>	A Track Lighting Supplementary Occupant Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).					
<input checked="" type="radio"/>	<input type="radio"/>	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.					
<input checked="" type="radio"/>	<input type="radio"/>	All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).					
<input type="radio"/>	<input checked="" type="radio"/>	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)(4).					
<input checked="" type="radio"/>	<input type="radio"/>	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet multi-level lighting control requirements in accordance with Section 130.1(b).					
<input checked="" type="radio"/>	<input type="radio"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-Off control requirements in Section 130.1(c).					
<input checked="" type="radio"/>	<input type="radio"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(c) and daylight zones are shown on the plans.					
<input checked="" type="radio"/>	<input type="radio"/>	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive System in accordance with Section 130.1(e).					
<input checked="" type="radio"/>	<input type="radio"/>	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-off controls, and demand responsive controls.					

STATE OF CALIFORNIA <b>INDOOR LIGHTING – LIGHTING CONTROLS</b>										CALIFORNIA ENERGY COMMISSION NRCC									
CEC-NRCC-LT101-01-E (Revised 09/15) CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls										NRCC									
Project Name: 24-120640 (PCH 02-116677)										Site Projected: 09/16/18									

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:

☐ CONDITIONED SPACES      ☒ UNCONDITIONED SPACES

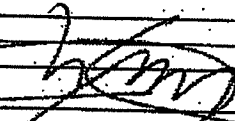
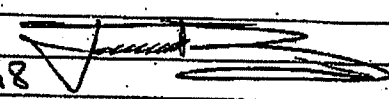
**B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist**

Lighting Control Schedule											PAF Credit Calculation *				✓ Pass/Fail Test Required
											Standards Complying With <sup>1</sup> (✓ all that apply, or leave blank if Exempted)	Waste of Controlled Lighting	PAF (K-L)	Control (K-L)	
A	B	C	D	E	F	G	H	I	J	K	L	M	N		
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	\$130.1(a)	\$130.0(b)	\$130.1(c)	\$130.1(d)	\$130.1(e)	\$130.0(a)(2)	\$130.0(a)						
All Zones	Occ Sensor & Dim & Man On/Off	1	+	+	+					32	.05	1.6	<input type="checkbox"/>		
												0	<input type="checkbox"/>		
												0	<input type="checkbox"/>		
												0	<input type="checkbox"/>		
												0	<input type="checkbox"/>		
												0	<input type="checkbox"/>		
Control Credit PAGE TOTAL (Sum of Column M):											1.6				
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column M):															
													Enter Control Credit into NRCC-LT101-01-E.1.		

1. \$130.1(a) = Manual area controls; \$130.0(b) = Multi Level; \$130.1(c) = Area Shut-Off; \$130.1(d) = Mandatory Daylight; \$130.1(e) = Demand Responsive; \$130.0(a)(2) = Additional lighting controls installed to earn a PAF; \$130.0(a) = Prescriptive Secondary Sidelight Daylight Controls.

2. Check Table 240.6-4 for correct factor. PAF's shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate also required to be filled out, signed, and submitted.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

STATE OF CALIFORNIA <b>INDOOR LIGHTING - LIGHTING CONTROLS</b> CEC-INDC-137-03-E (Revised 03/15)		CALIFORNIA ENERGY COMMISSION NRCC-411-02-E (Page 3 of 3)	
<b>CERTIFICATE OF COMPLIANCE</b> Indoor Lighting - Lighting Controls			
Project Name: 24-120x40 (PCI 02-11667)		Date Issued: 09/16/18	
<b>DOCUMENTATION AUTHOR'S DECLARATION STATEMENT</b> I, I certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Name: Jeffrey C. Chan-Lugay		Documentation Author Signature: 	
Company: Impact Construction Services, Inc.		Signature Date: 11/06/18	
Address: 4090 Harley Kroy Blvd		CECA Certification Identification ID Number: 24-001	
City/State/Zip: Harris, CA 93771		Phone: (951) 943-9999	
<b>RESPONSIBLE PERSON'S DECLARATION STATEMENT</b> 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 building provider 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			
6. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the			
Responsible Designer Name: James T. Simpson		Responsible Designer Signature: 	
Company: EXL Structural Engineers, Inc.		Date Signed: 11-7-2018	
Address: 4095 Riverside Drive, Suite #114		License: S-3602	
City/State/Zip: Chino, CA 91710		Phone: (909) 613-0734	

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

August 2015

# M3.5



CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2014

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2011

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards> September 2017

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards> September 2017

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards> September 2017

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards> September 2017

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards> September 2016

## M3.6



CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards> September 2017

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

PROJECT NAME:MFR. STRUCTURAL ENGINEER OF RECORD ON PCARCHITECT OF RECORD

## REVISIONS

SHEET NUMBER

# M3.7

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2013

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2013

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2013

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2013



# Performance Runs By Zone & Orientation

Project Name:	24x40 PC FOR IMPACT CONSTRUCTION		
Date of Title 24 Report:	9/21/2018		
DSA File No.:			
DSA Application #:	PC 02 - 116677		
Building Name/Model #:	1-Classroom Bldg. PC		
Comments:	Please input data from the energy pro runs in columns 2 and 3 for each climate zone worksheet		
	ROOF MOUNTED A/C UNIT		

Climate Zone: 14 (Palm Dale)				Climate Zone: 15 (Palm Springs)			
Front Orientation	Std Budget Kbtu/sf-yr	Prop. Design Kbtu/sf-yr	Compliance Margin	Front Orientation	Std Budget Kbtu/sf-yr	Prop. Design Kbtu/sf-yr	Compliance Margin
30	371.07	303.42	18.23%	30	417.73	325.52	22.07%
75	356.37	302.21	15.20%	75	411.12	324.76	21.01%
120	362.65	303.96	16.18%	120	416.79	325.69	21.86%
165	365.05	303.91	16.75%	165	419.20	325.53	22.34%
210	371.07	303.42	18.23%	210	417.73	325.52	22.07%
255	356.37	302.21	15.20%	255	411.12	324.76	21.01%
300	362.65	303.96	16.18%	300	416.79	325.69	21.86%
345	365.05	303.91	16.75%	345	419.20	325.53	22.34%

Climate Zone: 16 (Blue Canyon)			
Front Orientation	Std Budget Kbtu/sf-yr	Prop. Design Kbtu/sf-yr	Compliance Margin
30	346.14	296.46	14.35%
75	337.93	295.37	12.59%
120	345.92	296.90	14.17%
165	347.90	296.82	14.65%
210	346.14	296.46	14.35%
255	337.93	295.37	12.59%
300	345.92	296.90	14.17%
345	347.90	296.82	14.65%

# Performance Runs By Zone & Orientation

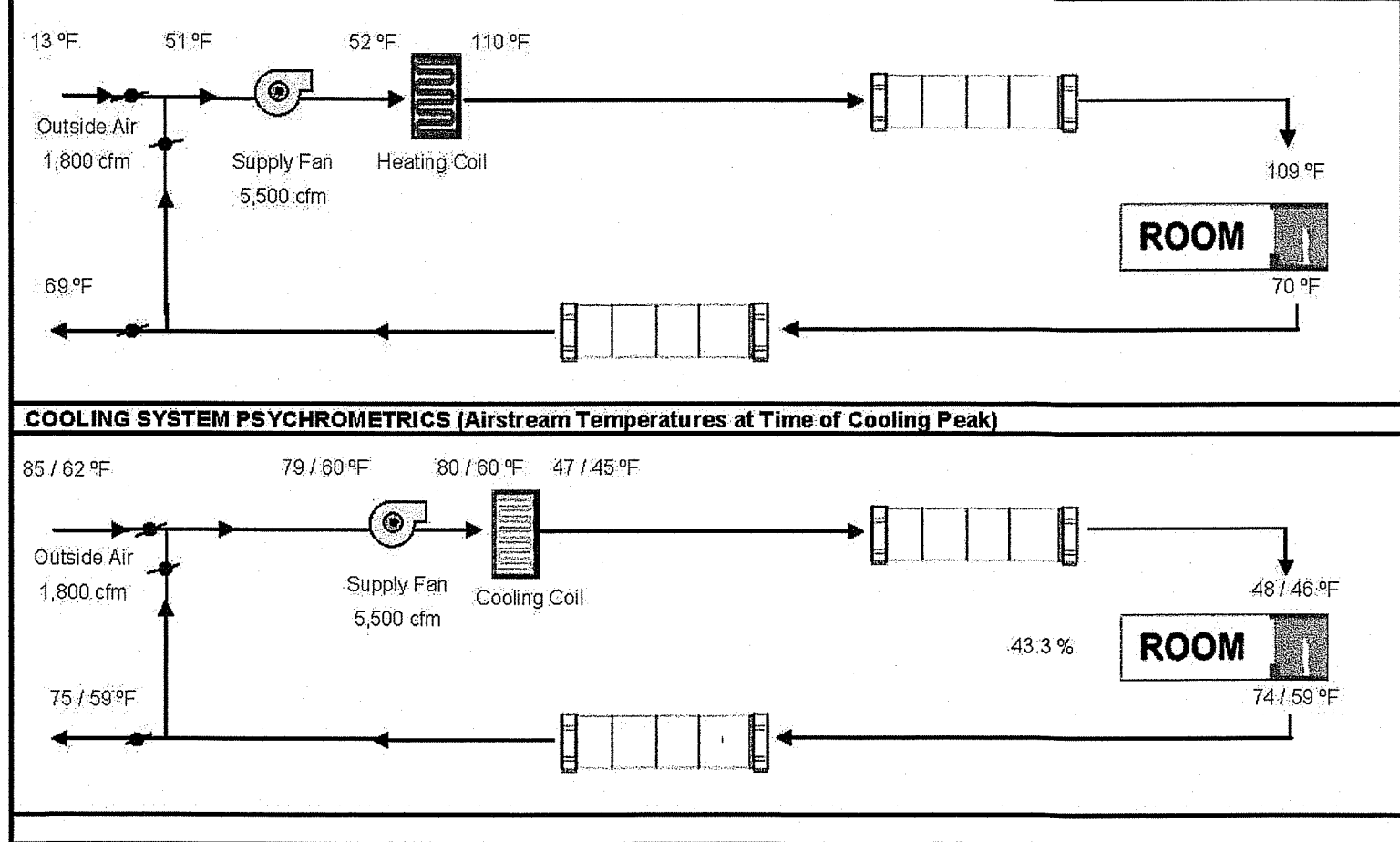
Project Name:	24x40 PC FOR IMPACT CONSTRUCTION		
Date of Title 24 Report:	9/20/2018		
DSA File No.:	PC 02 - 116677		
DSA Application #:	PC 02 - 116677		
Building Name/Model #:	1-Classroom Bldg. PC		
Comments:	Please input data from the energy pro runs in columns 2 and 3 for each climate zone worksheet		
	WALL MOUNTED A/C UNIT		

Climate Zone: 14 (Palm Dale)				Climate Zone: 15 (Palm Springs)			
Front Orientation	Std Budget Kbtu/sf-yr	Prop. Design Kbtu/sf-yr	Compliance Margin	Front Orientation	Std Budget Kbtu/sf-yr	Prop. Design Kbtu/sf-yr	Compliance Margin
30	371.07	320.83	13.54%	30	417.73	352.72	15.56%
75	356.37	319.65	10.30%	75	411.12	351.99	14.38%
120	362.65	321.33	11.39%	120	416.79	352.93	15.32%
165	365.05	321.23	12.00%	165	419.20	352.76	15.85%
210	371.07	320.83	13.54%	210	417.73	352.72	15.56%
255	356.37	319.65	10.30%	255	411.12	351.99	14.38%
300	362.65	321.33	11.39%	300	416.79	352.93	15.32%
345	365.05	321.23	12.00%	345	419.20	352.76	15.85%

Climate Zone: 16 (Blue Canyon)			
Front Orientation	Std Budget Kbtu/sf-yr	Prop. Design Kbtu/sf-yr	Compliance Margin
30	346.14	305.09	11.86%
75	337.93	303.88	10.08%
120	345.92	305.50	11.68%
165	347.90	305.54	12.18%
210	346.14	305.09	11.86%
255	337.93	303.88	10.08%
300	345.92	305.50	11.68%
345	347.90	305.54	12.18%

# HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Project Name 120X40 (PC 02-116677) - Wall AC			Date 9/20/2018						
System Name AC-1			Floor Area 4,800						
ENGINEERING CHECKS		SYSTEM LOAD							
Number of Systems		Total Room Loads		COIL COOLING PEAK		COIL HTG. PEAK			
5				CFM	Sensible	Latent	CFM	Sensible	
Heating System									
Output per System				5,721132,61748,0001,76281,675					
Total Output (Btu/h)				0					
Output (Btu/h/sqft)		Return Air Ducts		6,631		3,084			
Cooling System		Return Fan		0		0			
Output per System		Ventilation		1,80015,438-2,6631,800		90,231			
Total Output (Btu/h)		Supply Fan		7,675		-7,675			
Total Output (Tons)		Supply Air Ducts		6,631		3,084			
Total Output (Btu/h/sqft)		TOTAL SYSTEM LOAD		168,89245,337		150,400			
Total Output (sqft/Ton)									
Air System		HVAC EQUIPMENT SELECTION							
CFM per System		1,100		Bard C36H1-A		163,8641,810			
Airflow (cfm)		5,500				64,712			
Airflow (cfm/sqft)		1.15							
Airflow (cfm/Ton)		377.1							
Outside Air (%)		32.7				64,712			
Outside Air (cfm/sqft)		0.38							
Note: Values above given at ARI conditions		TIME OF SYSTEM PEAK		Jul 3 PM		Jan 1 AM			
HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)									



# Performance Runs By Zone & Orientation

Project Name:	120x40 PC FOR IMPACT CONSTRUCTION		
Date of Title 24 Report:	9/21/2018		
DSA File No.:	PC 02 - 116677		
DSA Application #:	PC 02 - 116677		
Building Name/Model #:	5-Classroom Bldg. PC		
Comments:	Please input data from the energy pro runs in columns 2 and 3 for each climate zone worksheet		
	ROOF MOUNTED A/C UNIT		

Climate Zone: 14 (Palm Dale)				Climate Zone: 15 (Palm Springs)			
Front Orientation	Std Budget Kbtu/sf-yr	Prop. Design Kbtu/sf-yr	Compliance Margin	Front Orientation	Std Budget Kbtu/sf-yr	Prop. Design Kbtu/sf-yr	Compliance Margin
30	343.03	291.17	15.12%	30	393.64	316.37	19.63%
75	334.61	288.84	13.68%	75	384.99	314.08	18.42%
120	341.86	291.05	14.86%	120	391.92	315.56	19.48%
165	346.80	292.55	15.64%	165	397.06	317.13	20.13%
210	343.03	291.17	15.12%	210	393.64	316.37	19.63%
255	334.61	288.84	13.68%	255	384.99	314.08	18.42%
300	341.86	291.05	14.86%	300	391.92	315.56	19.48%
345	346.80	292.55	15.64%	345	397.06	317.13	20.13%

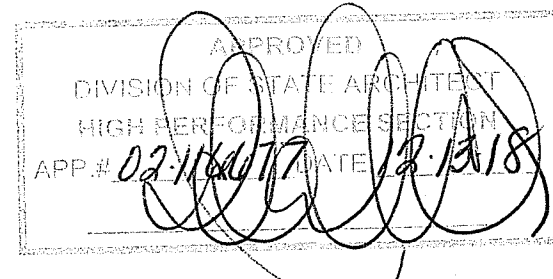
Climate Zone: 16 (Blue Canyon)			
Front Orientation	Std Budget Kbtu/sf-yr	Prop. Design Kbtu/sf-yr	Compliance Margin
30	323.73	282.30	12.80%
75	314.76	280.49	10.99%
120	323.34	282.12	12.75%
165	328.62	283.31	13.79%
210	323.73	282.30	12.80%
255	314.76	280.49	10.99%
300	323.34	282.12	12.75%
345	328.62	283.31	13.79%

# Performance Runs By Zone & Orientation

Project Name:	120x40 PC FOR IMPACT CONSTRUCTION		
Date of Title 24 Report:	9/20/2018		
DSA File No.:	PC 02 - 116677		
DSA Application #:	PC 02 - 116677		
Building Name/Model #:	5-Classroom Bldg. PC		
Comments:	Please input data from the energy pro runs in columns 2 and 3 for each climate zone worksheet		
	WALL MOUNTED A/C UNIT		

Climate Zone: 14 (Palm Dale)				Climate Zone: 15 (Palm Springs)			
Front Orientation	Std Budget Kbtu/sf-yr	Prop. Design Kbtu/sf-yr	Compliance Margin	Front Orientation	Std Budget Kbtu/sf-yr	Prop. Design Kbtu/sf-yr	Compliance Margin
30	343.03	308.98	9.93%	30	393.64	343.33	12.78%
75	334.61	306.48	8.41%	75	384.99	340.94	11.44%
120	341.86	308.67	9.71%	120	391.92	342.48	12.61%
165	346.80	310.24	10.54%	165	397.06	344.13	13.33%
210	343.03	308.98	9.93%	210	393.64	343.33	12.78%
255	334.61	306.48	8.41%	255	384.99	340.94	11.44%
300	341.86	308.67	9.71%	300	391.92	342.48	12.61%
345	346.80	310.24	10.54%	345	397.06	344.13	13.33%

Climate Zone: 16 (Blue Canyon)			
Front Orientation	Std Budget Kbtu/sf-yr	Prop. Design Kbtu/sf-yr	Compliance Margin
30	323.73	291.26	10.03%
75	314.76	289.19	8.12%
120	323.34	291.05	9.99%
165	328.62	292.38	11.03%
210	323.73	291.26	10.03%
255	314.76	289.19	8.12%
300	323.34	291.05	9.99%
345	328.62	292.38	11.03%



PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
INCORPORATED  
DESIGN  
**MODTECH**  
DESIGN  
MODULAR STRUCTURES INTERNATIONAL, INC.

CONTRACTORS LICENSE #837357  
NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHICOHILL, CA 95610  
PHONE: (530) 665-5800  
FAX: (530) 665-5700  
WEBSITE: WWW.GDM.NET  
SOUTHERN CALIFORNIA DIVISION  
1660 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3662  
WEBSITE: WWW.GDM.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

TITLE 24 REPORTS  
9 OF 9

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018  
JAMES T. SAPON  
PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA  
No. 3802

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # 02-116677  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2018

REVISIONS

PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00  
SHEET NUMBER

M3.8




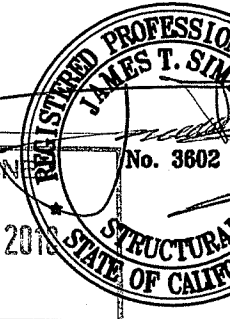


LIGHTING LEGEND & SYMBOLS		POWER LEGEND & SYMBOLS		LOW VOLTAGE LEGEND & SYMBOLS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	2'x4' EMERGENCY LED DROP IN LIGHT FIXTURE WITH 90 MIN BATTERY BACK-UP, WEIGHT 27 LBS, 55 WATT, 5000K COLOR TEMP. INDICATE 'DW' ON LIGHT FIXTURE FOR DRYWALL KIT		DISCONNECT SWITCH H.P. RATED 600 VOLTS RATED 'F' INDICATES FUSE TYPE. FUSES PER APPROVED MANUFACTURES DRAWINGS.		JUNCTION BOX
	2'x4' LED DROP IN LIGHT FIXTURE, WEIGHT 27 LBS, 55 WATT, 5000K COLOR TEMP. INDICATE 'DW' ON LIGHT FIXTURE FOR DRYWALL KIT		PULL STATION J-BX W/ 3/4" CONDUIT. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		OUTDOOR WEATHER PROOF SPEAKER
	1'x4' EMERGENCY LED DROP IN LIGHT FIXTURE WITH 90 MIN BATTERY BACK-UP, WEIGHT 20 LBS, 30 WATT, 5000K COLOR TEMP. INDICATE 'DW' ON LIGHT FIXTURE FOR DRYWALL KIT		EXT. HORN J-BX W/ 3/4" CONDUIT AT +90" A.F.F.		FLOOR DATA BOX W/ POWER OUTLET
	1'x4' LED DROP IN LIGHT FIXTURE, WEIGHT 20 LBS, 30 WATT, 5000K COLOR TEMP		SINGLE PLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		TV OUTLET. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.
	2'x2' EMERGENCY LED DROP IN LIGHT FIXTURE WITH 90 MIN BATTERY BACK-UP, WEIGHT 13.5 LBS, 20 WATT, 5000K COLOR TEMP		DUPLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		INTERCOM OUTLET. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.
	2'x2' LED DROP IN LIGHT FIXTURE, WEIGHT 13.5 LBS, 20 WATT, 5000K COLOR TEMP		FOUR PLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		SECURITY SYSTEM DOOR SWITCH, MOUNTED AT TOP OF DOOR JAMB
	2'x4' LED DROP SURFACE MOUNT FIXTURE, WEIGHT 27 LBS, 55 WATT, 5000K COLOR TEMP, WHEN HATCHED REPRESENTS 90 MIN BATTERY BACK-UP		SWITCH CONTROLLED DUPLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		CEILING MOUNTED SPEAKER
	1'x4' LED DROP SURFACE MOUNT FIXTURE, WEIGHT 20 LBS, 30 WATT, 5000K COLOR TEMP, WHEN HATCHED REPRESENTS 90 MIN BATTERY BACK-UP		DUPLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS GFI TYPE). INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		HOME RUN TO DESTINATION AS INDICATED. REFER TO CONDUIT SYMBOL ABOVE
	2'x2' LED DROP SURFACE MOUNT FIXTURE, WEIGHT 13.5 LBS, 20 WATT, 5000K COLOR TEMP, WHEN HATCHED REPRESENTS 90 MIN BATTERY BACK-UP		WEATHERPROOF DUPLEX RECEPTACLE OUTLET (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL.		FLOOR DATA BOX
	EXHAUST FAN, 100 CFM (156 WATTS) MIN FOR SINGLE OCCUPANT		RECESSED CEILING MOUNTED DUPLEX RECEPTACLE OUTLET, CONVENIENCE (20 AMPS, 125 VOLTS)		DATA OUTLET
	EXHAUST FAN, 350 CFM (180 WATTS) MIN FOR MULTIPLE OCCUPANTS		DUPLEX RECEPTACLE OUTLET ON DEDICATED CIRCUIT (20 AMPS, 125 VOLTS). INSTALL PER MOUNTING HEIGHT DETAIL.		PHONE OUTLET
	SURFACE MOUNTED CEILING DOUBLE FACE EXIT SIGN (UNIVERSAL ARROWS INDICATED AS NEEDED)		FLOOR POWER BOX		DATA/VOICE OUTLET
	SURFACE MOUNTED CEILING SINGLE FACE EXIT SIGN (UNIVERSAL ARROWS INDICATED AS NEEDED)		HORN/STROBE LIGHT. INSTALL PER MOUNTING DETAIL UNO		CEILING MOUNTED DATA BOX
	EMERGENCY LIGHT W/ BATTERY BACK-UP PACK		SMOKE DETECTOR @ CEILING		
	WALL MOUNTED LIGHTED EXIT SIGN W/ BATTERY BACK-UP PACK @ +2" ABOVE FLOOR BASE (AS APPICABLE)		HEAT DETECTOR IN ATTIC SPACE		
	EMERGENCY EXIT LIGHT W/ BATTERY BACK-UP PACK		WATER PROOF JUNCTION BOX WITH COVER		
	EXTERIOR LIGHT: EXITRONIX #TL106-CF-32-120/277-BB-SZ120-PC1 WITH 90 MINUTE BATTERY BACK-UP, 32 WATTS, SURFACE MOUNTED AT 80" MIN A.F.F. TO BOTTOM OF LIGHT UNO, CONTROLLED BY PHOTOCELL. (PHOTOCONTROL FIELD INSTALLED)		JUNCTION BOX		
	SINGLE POLE SWITCH. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		CLOCK W/CLOCK OUTLET @ +8'-0"		
	THREE-WAY SWITCH. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		CEILING MOUNTED OCCUPANCY MOTION SENSOR		
	KEY OPERATED SWITCH. INSTALL PER MOUNTING HEIGHT DETAIL U.N.O.		BRANCH PANEL BOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE (SURFACE MOUNTED)		
			BRANCH PANEL BOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE (RECESSED MOUNTED)		
			MANUAL DIMMING WITH COMBINED BUILT-IN OCCUPANCY SENSOR: LUTRON 'MAESTRO' MS-Z101. THIS IS SWITCH IS APPLICABLE FOR DIMMING LED BULB, CFL BULB, INCANDESCENT AND DIMMABLE FLUORESCENT BALLAST WITH MAX 20 FT RANGE FROM WALL. REFER TO CATALOG CUT SHEET FOR ADDITIONAL INFORMATION. INSTALL PER MOUNTING HEIGHT DETAIL UNO		
			MANUAL DIMMING (CAN BE COMBINED WITH CEILING MOUNTED OCCUPANCY SENSOR) : LUTRON 'DIVA' DVSTV-XX. THIS IS SWITCH IS APPLICABLE FOR DIMMING LED BULB, CFL BULB, INCANDESCENT AND DIMMABLE FLUORESCENT BALLAST. APPROX 1500 SQ FT COVERAGE 360° HAS A 3-WAY SWITCHING CAPABILITIES. REFER TO CATALOG CUT SHEET FOR ADDITIONAL INFORMATION. INSTALL PER MOUNTING HEIGHT DETAIL UNO		

### FIRE ALARM NOTES

- FIRE ALARM SYSTEM SHALL COMPLY WITH CBC CHAPTER 9 SECTION 907.3 TITLE 24, PART 3, ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE,
- INSTALLATION OF FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAIL PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL CHARGE OF DESIGN. THE SIGNATURE OF THE ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, MUST BE APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND STATE FIRE MARSHALL, PER CFC SECTION 907.1.2 & DSA POLICY GL-2
- A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A "RED" LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT THE FIRE PANEL/EXTENDERS, NFPA 72 SECTION 10.6.5.2, 10.6.5.2.2, 10.6.5.2.3, 10.6.5.2.4 & 10.6.5.4
- UPON COMPLETION OF THE INSTALLATION OF THE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY.
- ALARMS, SECTION 907, CALIFORNIA FIRE CODE, IF EMERGENCY WARNING SYSTEMS ARE REQUIRED, THEY SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE. LOCATE PER CFC 907.5.2.3 & NFPA 72
- EMERGENCY VOICE COMMUNICATION PER 907.2.3

PROJECT SPECIFIC STATE AGENCY APPROVAL

<div style="border: 2px solid black; border-radius: 20px; padding: 10px; margin: 0 auto; width: 80%;"> <p style="text-align: center; margin: 0;">IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT</p> <p style="text-align: center; margin: 5px 0;">APP: 02-118411 INC:</p> <p style="text-align: center; margin: 5px 0;">REVIEWED FOR</p> <p style="text-align: center; margin: 5px 0;"> <input checked="" type="checkbox"/> SS     <input checked="" type="checkbox"/> FL5     <input checked="" type="checkbox"/> ACS     <input checked="" type="checkbox"/> </p> <p style="text-align: center; margin: 5px 0;">DATE: 06/11/2020</p> </div>	
 <p style="font-size: 2em; font-weight: bold; margin: 0;">GLOBAL MODULAR</p> <p style="font-weight: bold; margin: 0;">Incorporated</p>	
 <p style="font-weight: bold; margin: 0;">AURORA</p> <p style="font-size: 0.8em; margin: 0;">DESIGNS</p>	 <p style="font-weight: bold; margin: 0;">MODTECH</p> <p style="font-size: 0.8em; margin: 0;">STRUCTURES INTERNATIONAL, INC. DESIGNS</p>
<p>CONTRACTORS LICENSE #837357</p>	
<p>NORTHERN CALIFORNIA DIVISION 1200 AIRPORT DRIVE CHOWCHILLA, CA 93610 PHONE: (559) 665-5800 FAX: (559) 665-5700 WEBSITE: <a href="http://WWW.GDM.NET">WWW.GDM.NET</a></p>	<p>SOUTHERN CALIFORNIA DIVISION 1660 CHICAGO AVE., SUITE #M-21 RIVERSIDE, CA 92507 PHONE: (951) 686-3633 FAX: (951) 686-3662 WEBSITE: <a href="http://WWW.GDM.NET">WWW.GDM.NET</a></p>
<p>THIS DRAWING AND THE MATERIAL CONTAINED THERE-IN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.</p>	
<p>PROJECT NAME:</p>	
<p>SHEET TITLE:</p>	
<h1 style="margin: 0;">ELECTRICAL DETAILS</h1>	
<p>MFR. STRUCTURAL ENGINEER OF RECORD ON PC</p>	
<div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: right; margin-right: 10px;"> <p>DATE SIGNED</p> <p style="font-size: 1.2em;">DEC 11 2017</p> </div>  </div>	
<p>MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD</p>	

# NOTES

## MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THRU 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND 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 ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- 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.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL (GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY) AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

## PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION

### SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3, AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM), 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 #) #

MP ☐ MD ☐ PP ☐ E ☐ - OPTION 3: SHALL COMPLY WITH SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WHICH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS

The diagram consists of two parts: a side elevation view of a mounting assembly and a cross-sectional view of the module bonding.

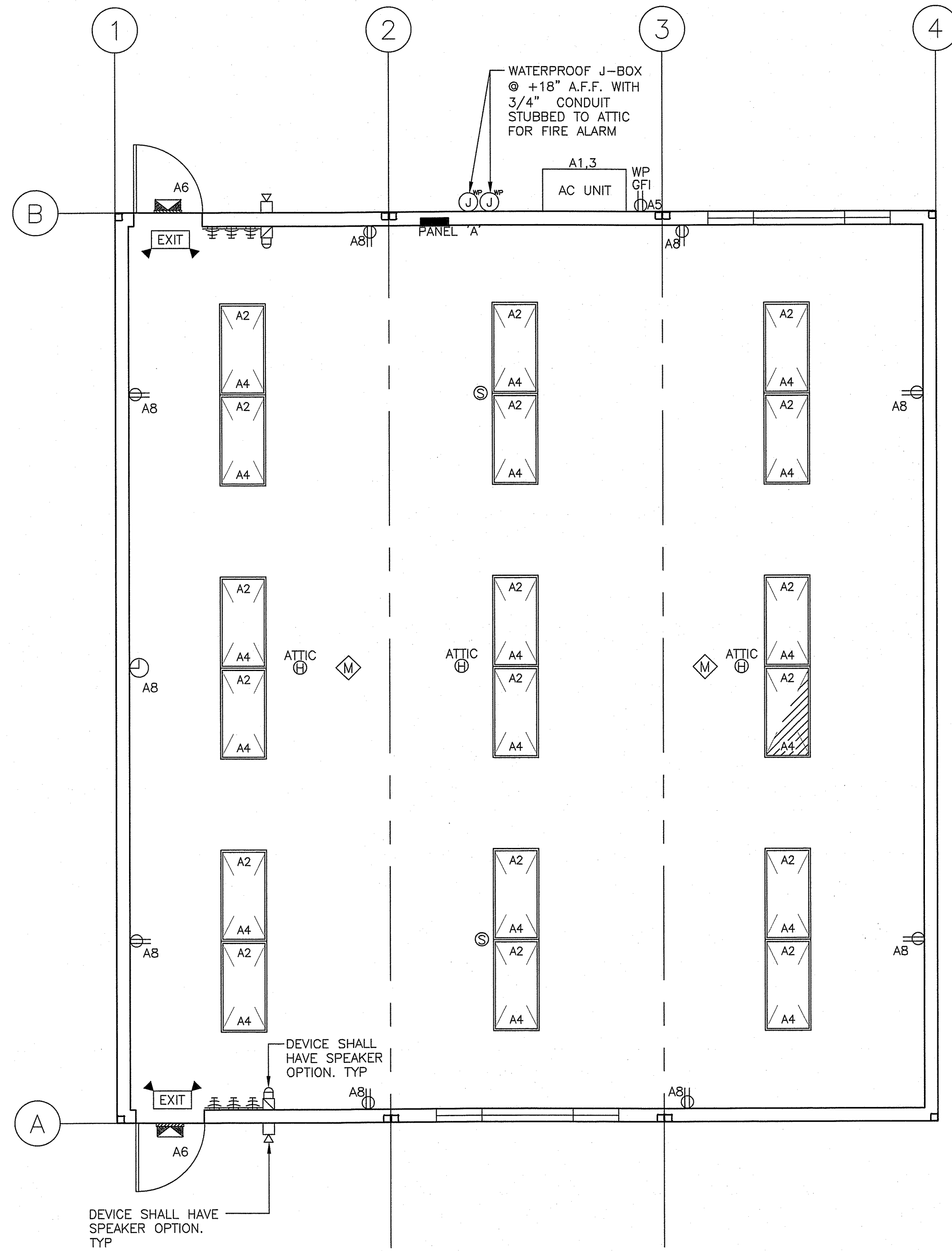
**Side Elevation View (Top):**

- Left Side:** Shows a vertical assembly. The top is labeled "CEILING LINE". Below it is a box labeled "TOP OF SWITCHES, OUTLETS, CONTROLS, AND THERMOSTAT BOX". The distance from the ceiling line to the top of this box is "6" MAX". Below the box is another box labeled "BOTTOM OF RECEPT BOX". The distance between the top and bottom boxes is "48" MAX". The distance from the bottom of the receptacle box to the bottom of the diagram is "15" MIN".
- Right Side:** Shows a similar vertical assembly. The top is labeled "TOP OF SWITCHES, OUTLETS, CONTROLS, AND THERMOSTAT BOX". The distance from the ceiling line to the top of this box is "4" MAX". Below the box is another box labeled "BOTTOM OF RECEPT BOX". The distance between the top and bottom boxes is "34" MAX". The distance from the bottom of the receptacle box to the bottom of the diagram is "24" MAX".
- Center:** A vertical dimension line indicates a distance of "80" TO BTM OF HORN/VISUAL STROBE" from the top of the switch boxes to the bottom of the diagram.

**Cross-Sectional View (Bottom):**

- A vertical line represents the "MODLINE".
- A horizontal line at the top represents the "RIDGE BEAM".
- A horizontal line at the bottom represents the "GROUND LUG".
- A vertical line passing through the center represents the "#8 BARE COPPER WIRE".
- The diagram shows the wire passing through a hole in the modline and being secured by a ground lug.

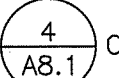
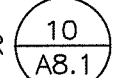




LOAD CENTER SCHEDULE														PANEL <u>A</u>		
VOLTS <u>120/240</u>		PHASE <u>1</u>		BUSS <u>100 A</u>		FEED <u>WALL</u>										
MAIN BRKR <u>100 A</u>		WIRE <u>3</u>		MOUNT <u>RECESSED</u>		LOCATION <u>INTERIOR</u>										
DESCRIPTION	WATTS		WIRE SIZE	BREAKER	POLE	CKT. NO.	A	B	C	D	E	F	G	WATTS		DESCRIPTION
	A#	B#												A#	B#	
A/C	6552	-	6	70	2	1	1	1	2	1	20	12	789	-	-	LIGHTS/EXIT
A/C	-	6552	-	-	-	3	1	1	4	1	20	12	-	789	-	LIGHTS/EXIT
EXT RECEPT	180	-	12	20	1	5	1	1	6	1	20	12	84	-	-	EXTERIOR LIGHTS
-	-	-	-	-	-	7	1	1	8	1	20	12	-	1620	-	RECEPT
-	-	-	-	-	-	9	1	1	10	1	20	12	600	-	-	F.A.C.P.
-	-	-	-	-	-	11	1	1	12	-	-	-	-	-	-	-
SUB TOTAL		6732	6552							1473	2409	SUB TOTAL				
LOAD		* L.C.L. = 1,662 x 1.25 = 2,078										TOTAL LOAD				MAX DEMAND <u>74</u> AMPS
A <u>8,373</u>		OTHER = 15,672														
B <u>8,961</u>		MAX DEMAND = 17,750														
TOTAL <u>17,334</u>																

\*LABEL & LOCK ON DEVICE

### GENERAL NOTES

- SEE SHEET E0.0 FOR ELECTRICAL, FIRE ALARM AND SIGNAL PLAN DESIGN NOTES
- PROVIDE EMERGENCY LIGHTING AT ALL EXTERIOR DOORS PER SECTION 1006.3.5. LOCATION OF EMERGENCY LIGHTING TO BE DETERMINED BY SITE ARCHITECT BASED ON PROJECT SPECIFIC DESIGN
- CBC SECTION 907.5.2.2.5, EMERGENCY POWER FOR EMERGENCY VOICE COMMUNICATION.
- SEE DAYLIT FLOOR PLANS FOR DAYLIT LOCATIONS
- WHEN ELECTRICAL PANEL WEIGHT EXCEEDS >20 LBS, SEE DETAILS  OR 

PROJECT SPECIFIC (CHECK ONE):  
☒ STANDARD DESIGN AS SHOWN  
☐ SOLATUBE OPTION. REFERENCE SHEET A11.0

SEE PROJECT SPECIFIC SHEET E2.0.ps

ELECTRICAL PLAN — WALL MOUNTED HVAC

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

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

GLOBAL MODULAR  
Incorporated  
AURA MODTECH  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 665-5800  
FAX: (559) 665-3700  
WEBSITE: WWW.GDM.NET

SOUTHERN CALIFORNIA DIVISON  
1680 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 685-3633  
FAX: (951) 685-3662  
WEBSITE: WWW.GDM.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

ELECTRICAL PLAN  
36'x40'  
(WALL MOUNTED HVAC)

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV OF THE STATE ARCHITECT  
PC 02-116677  
FILE # PC-72  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2018

REVISIONS

△ -  
△ -  
△ -  
△ -  
△ -  
△ -  
△ -  
△ -

PROJECT NO.: 00-0000

DRAWN BY: 00

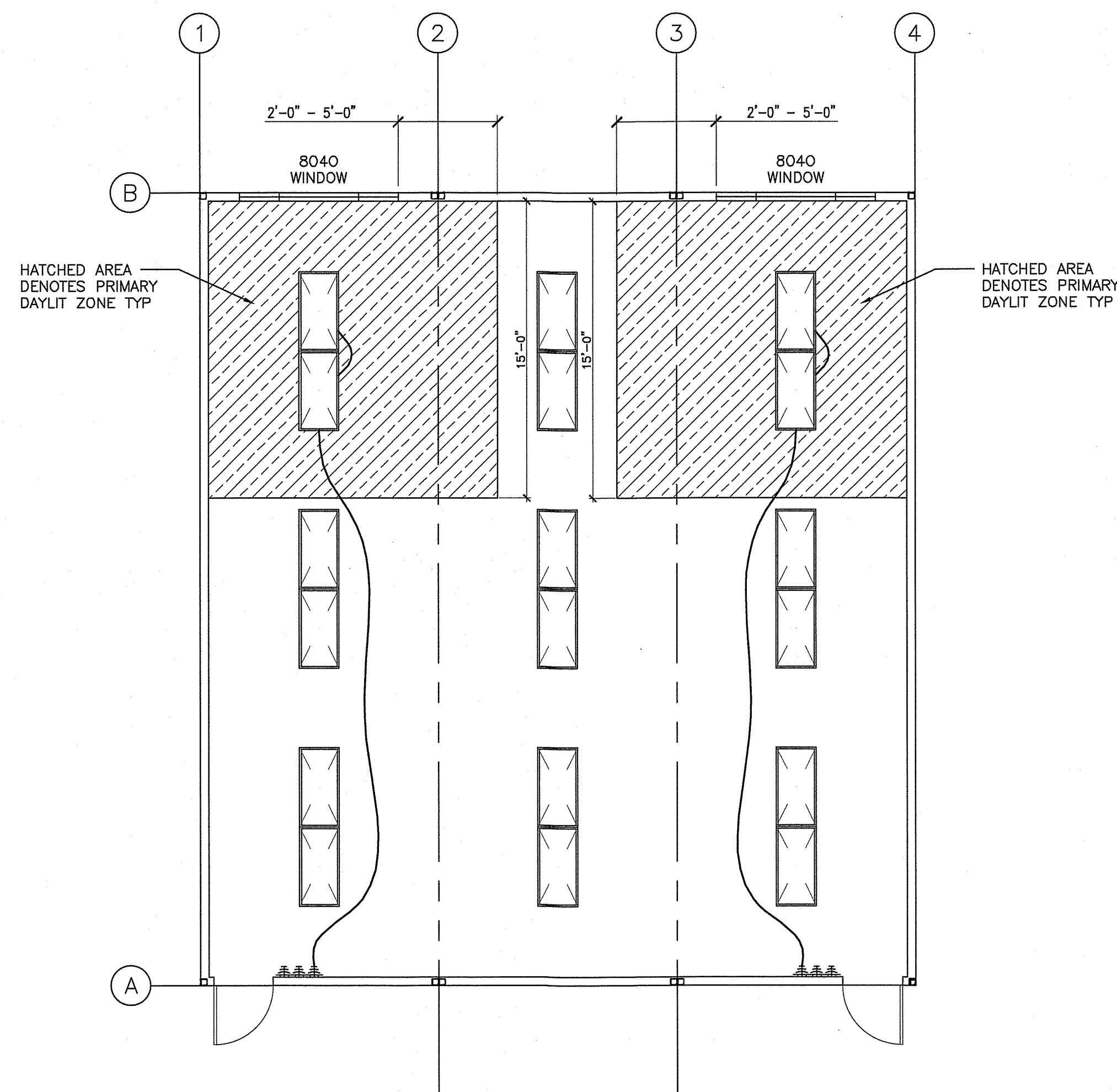
SCALE: AS NOTED

DATE: 00-00-00

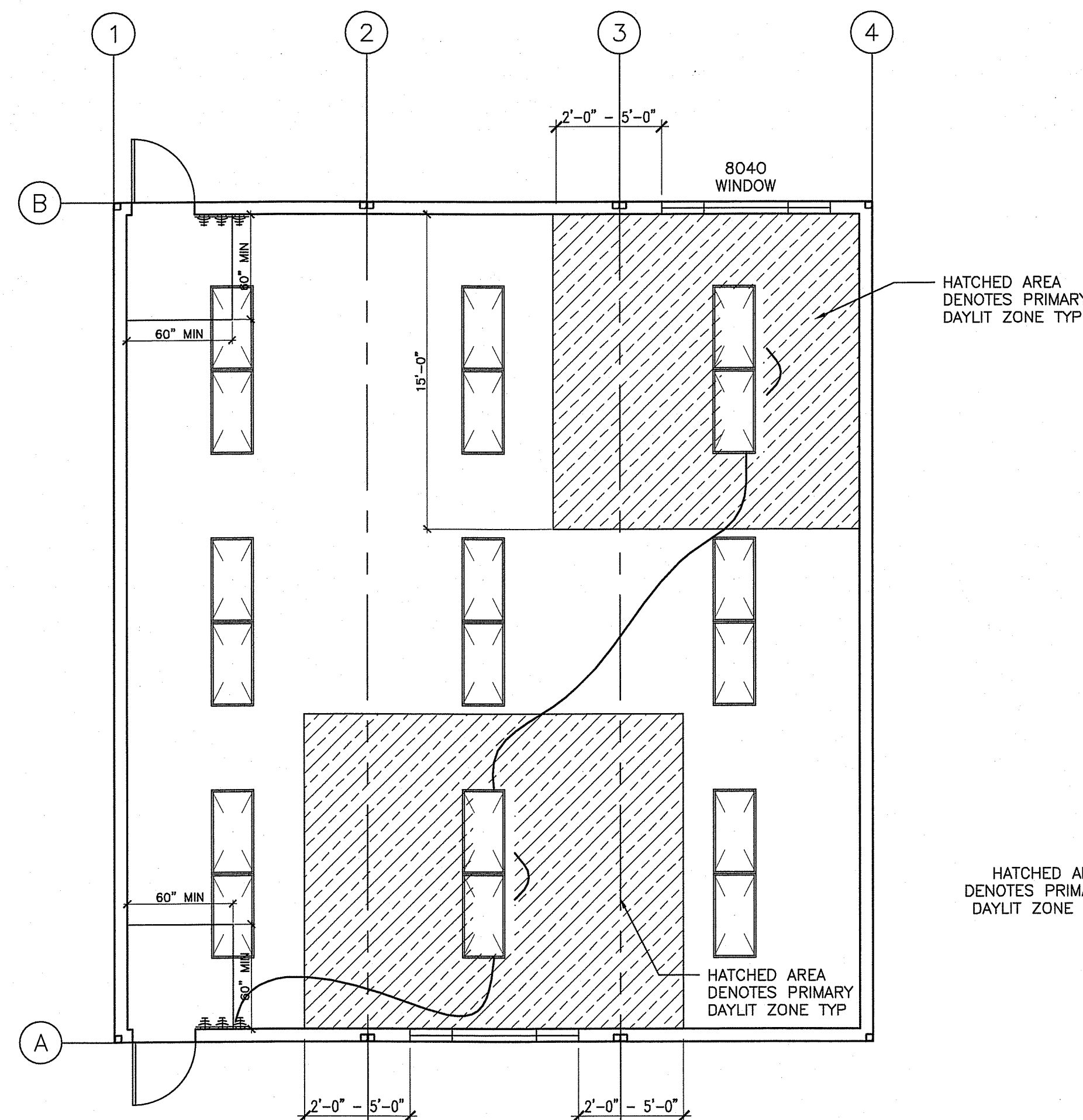
SHEET NUMBER

E2.0

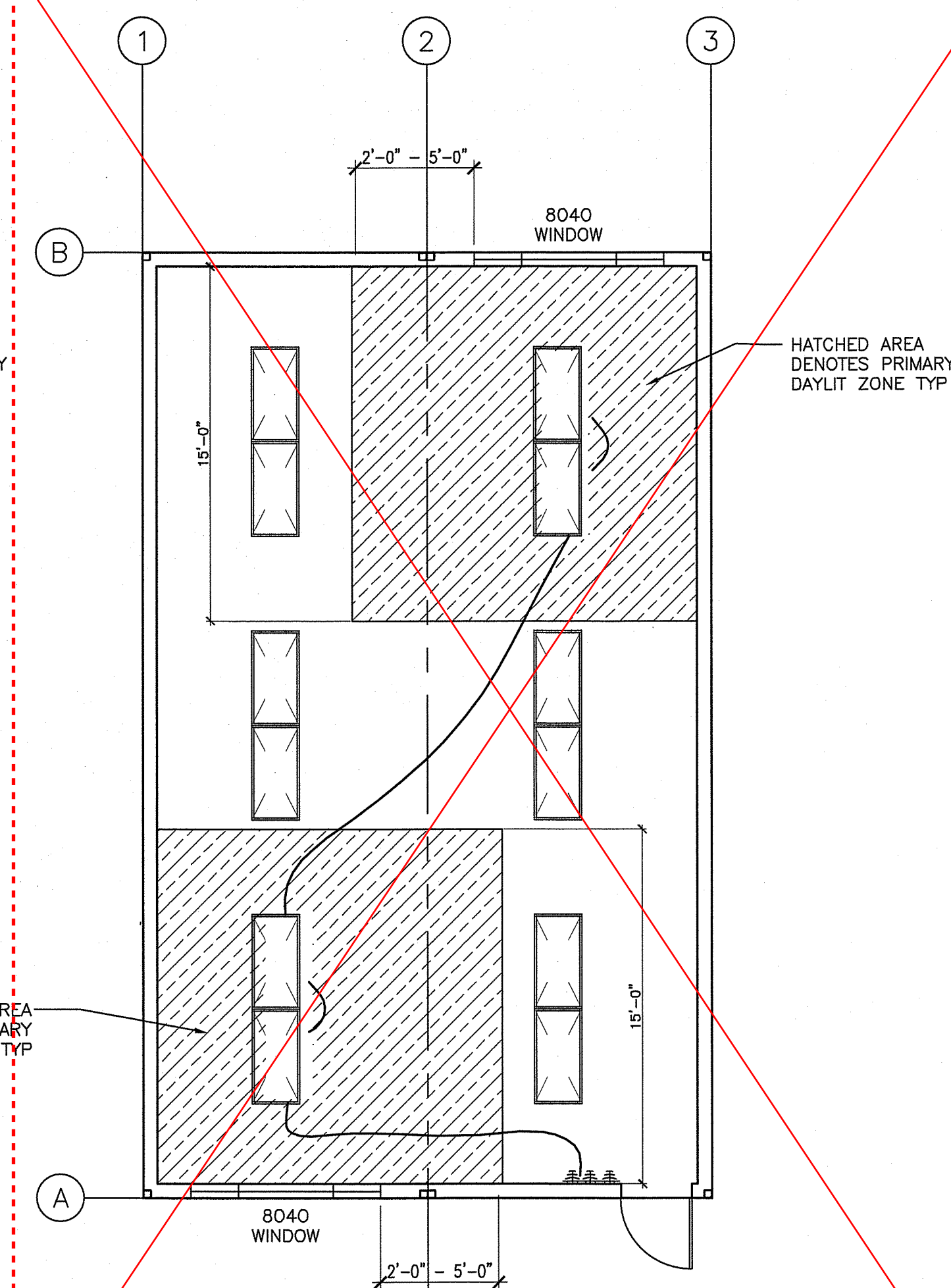




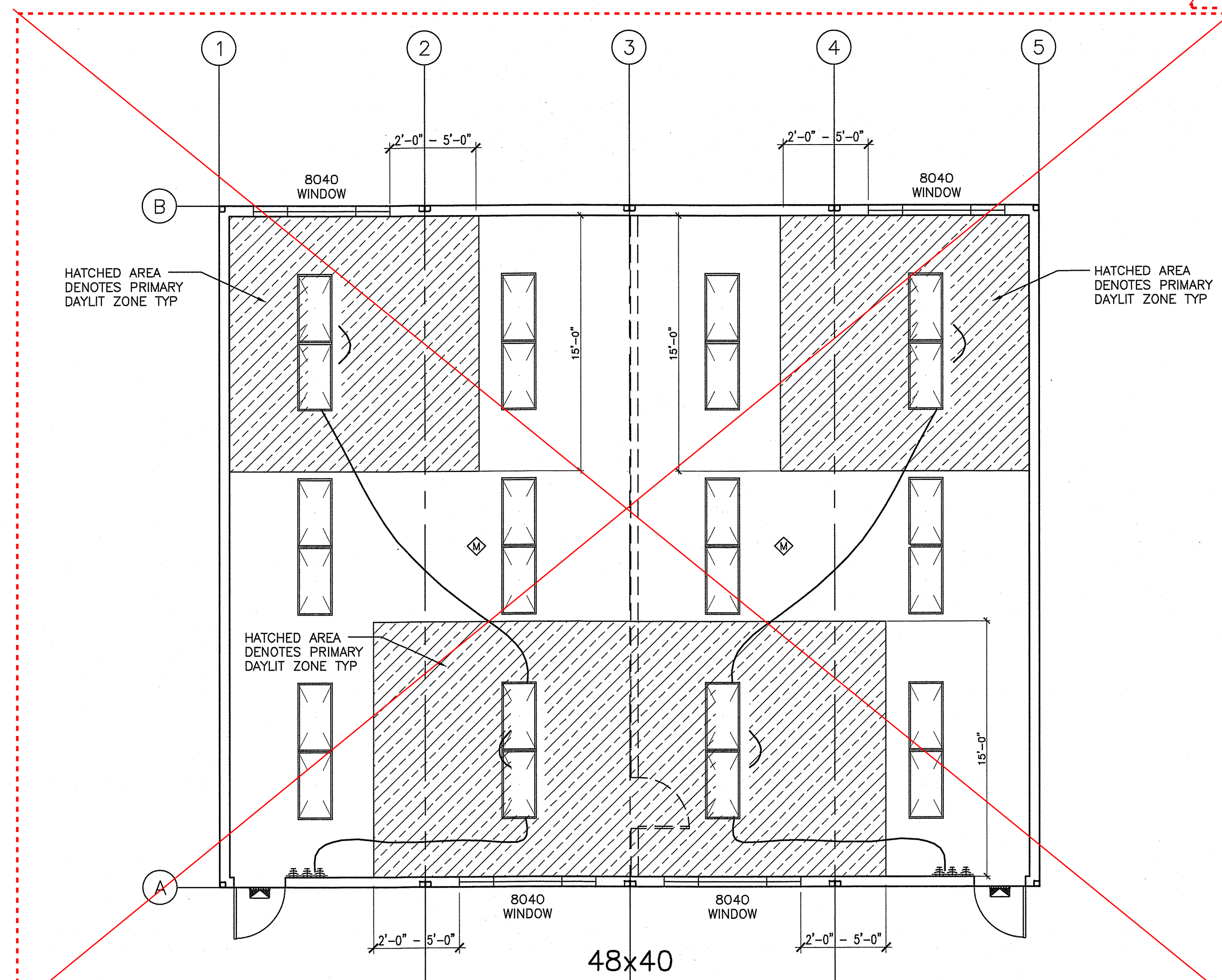
36x40  
(USED IN FLOOR PLANS 60'x40', 84'x40' & 108'x40')



36'x40' (TYPICAL)



24'x40'  
OPTION 'A' (RIGHT HAND) SHOWN



48x40

### NOTE

1. THE PURPOSE OF THE DAYLIT ZONE PLANS ARE TO LOCATE THE PRIMARY SIDELIT DAYLIT ZONES AND ITS OPERATING SWITCH PER ENERGY CODE SECTION 130.1(d)1.B & 130.1(d)2, FOR ALL OTHER ELECTRICAL INFORMATION SEE ELECTRICAL PLANS. CALCULATION = 0.5 TIMES WINDOW HEAD HEIGHT FROM FINISH FLOOR EQUALS WIDTH ON EACH SIDE OF WINDOW MINUS ANY AREA ON A PLAN BEYOND A PERMANENT OBSTRUCTION THAT IS 6 FT OR TALLER AS MEASURED FROM THE FLOOR
2. 8040 WINDOW (AS SHOWN, SEE ARCHITECTURAL FOR PRECISE SIZE)
3. REFER TO ELECTRICAL PLANS FOR EMERGENCY LIGHT LOCATIONS

SEE PROJECT SPECIFIC SHEET E2.1.ps

### DAYLIT ZONE FLOOR PLANS

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

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

GLOBAL MODULAR  
INCORPORATED

AURORA MODTECH  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 885-8800  
FAX: (559) 885-8700  
WEBSITE: WWW.GDM.NET

SOUTHERN CALIFORNIA DIVISION  
1800 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 886-3633  
FAX: (951) 886-3662  
WEBSITE: WWW.GDM.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

DAYLIT ZONE FLOOR PLANS  
24'-48'x40'

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CSC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # 12-12  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2018

REVISIONS

△ -  
△ -  
△ -  
△ -  
△ -  
△ -  
△ -  
△ -

PROJECT NO.: 00-0000

DRAWN BY: 00

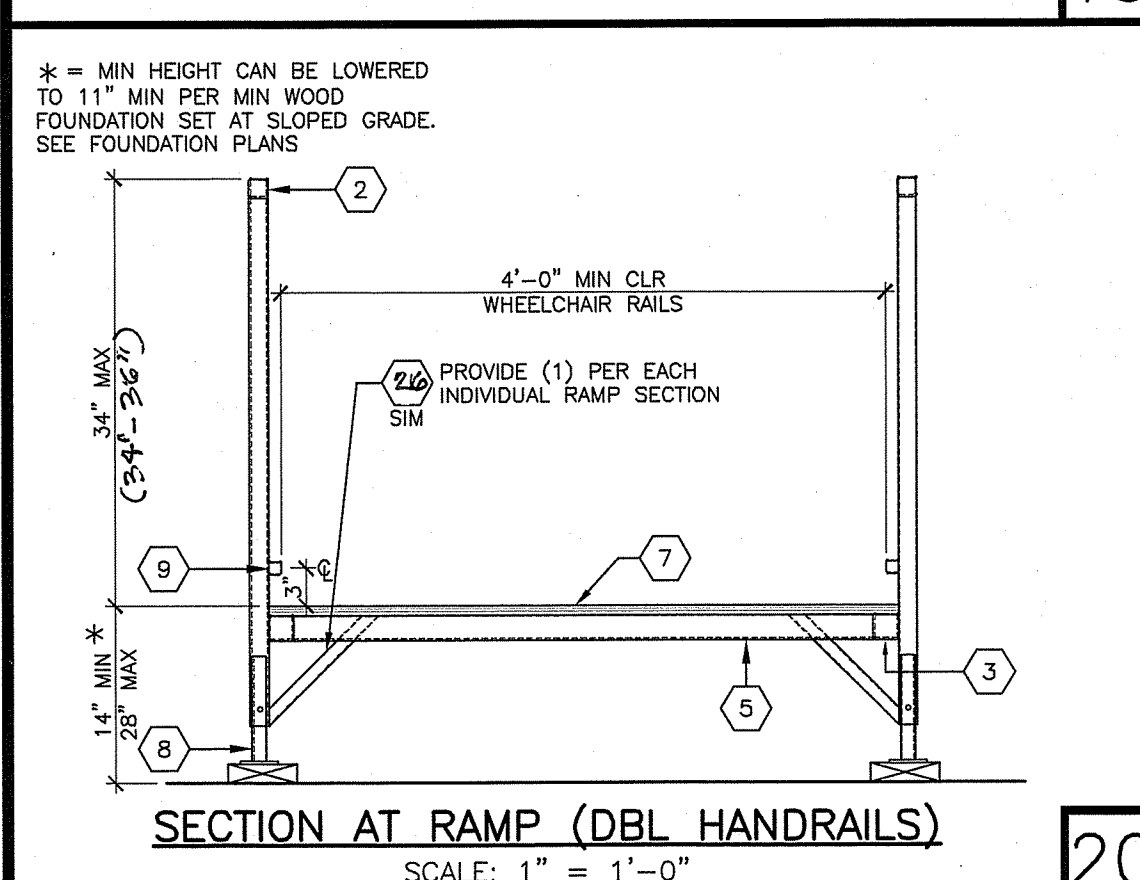
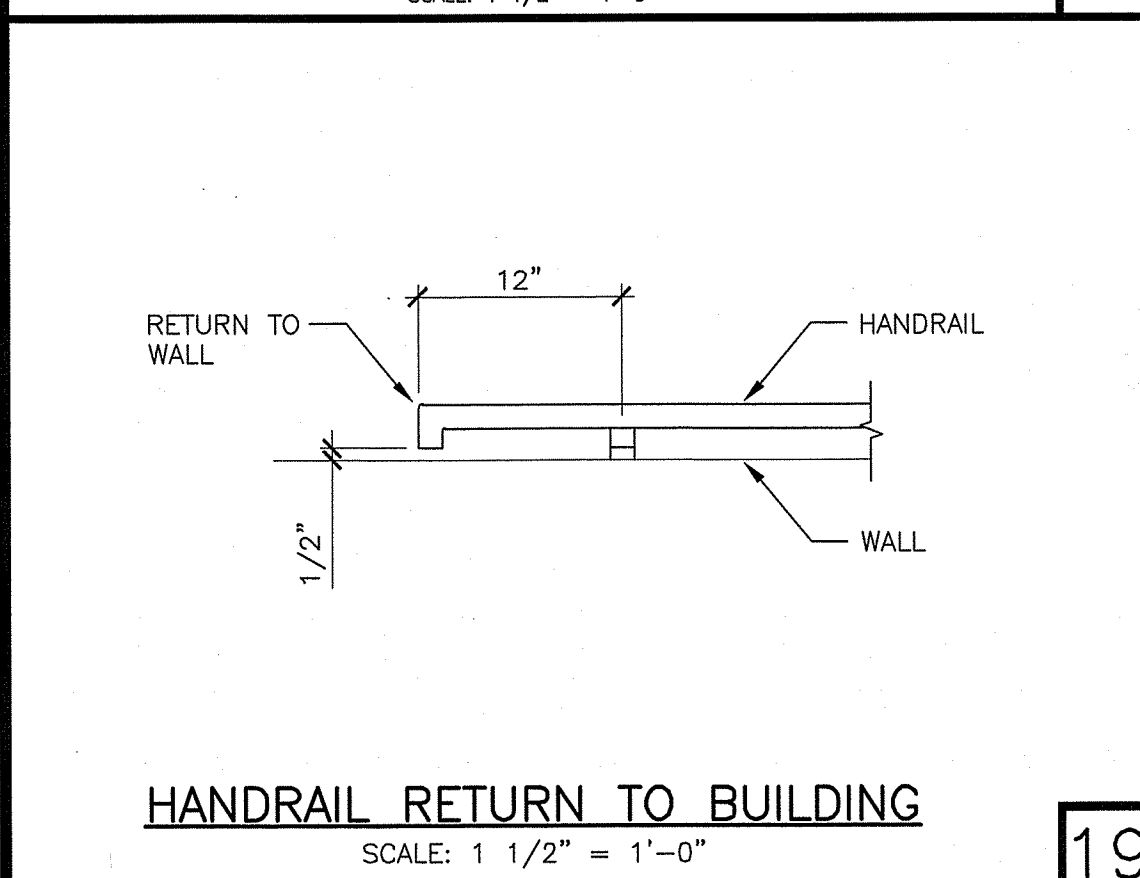
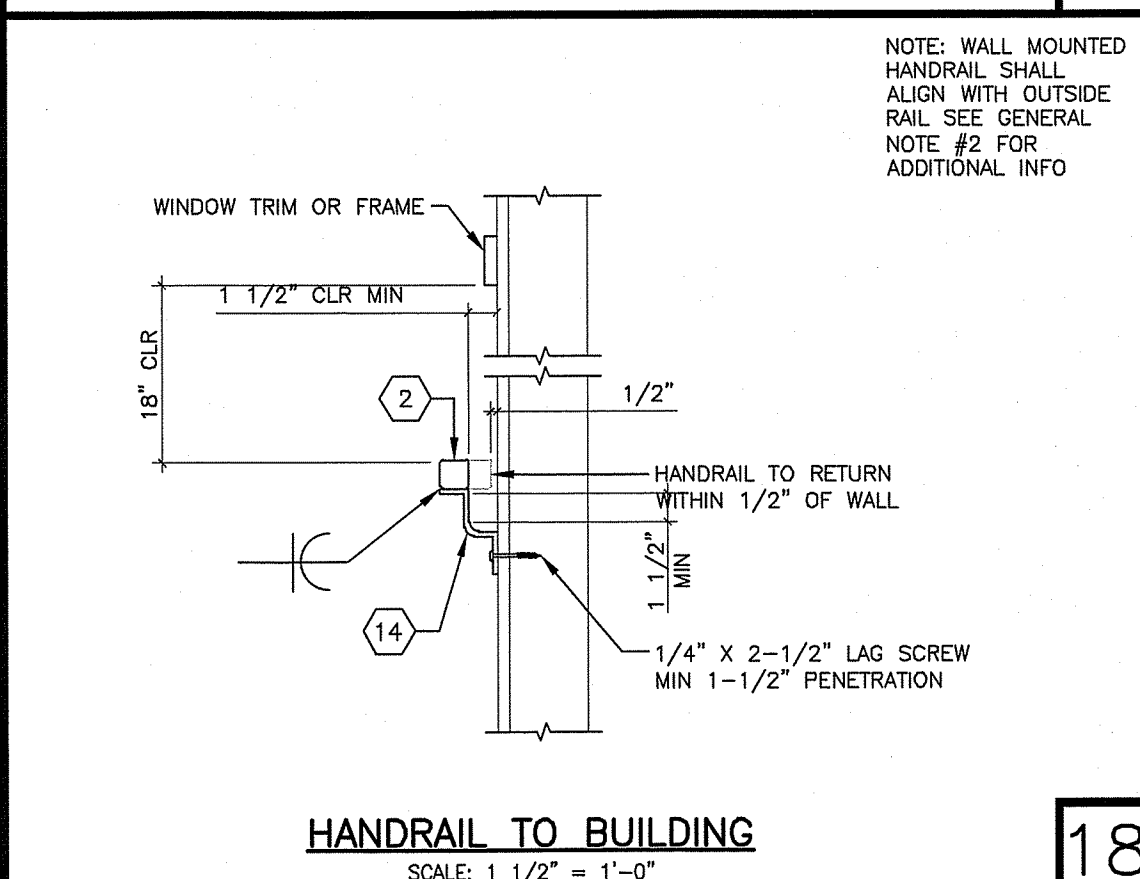
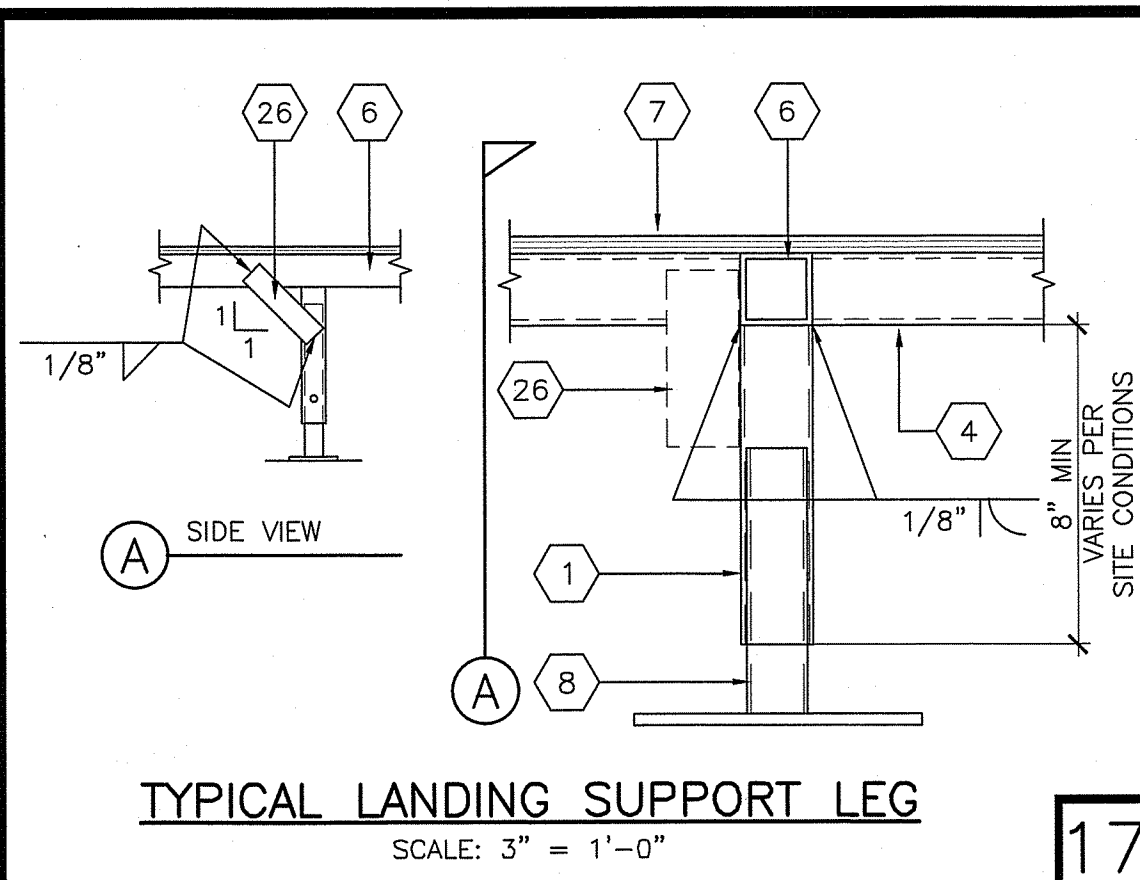
SCALE: AS NOTED

DATE: 00-00-00

SHEET NUMBER

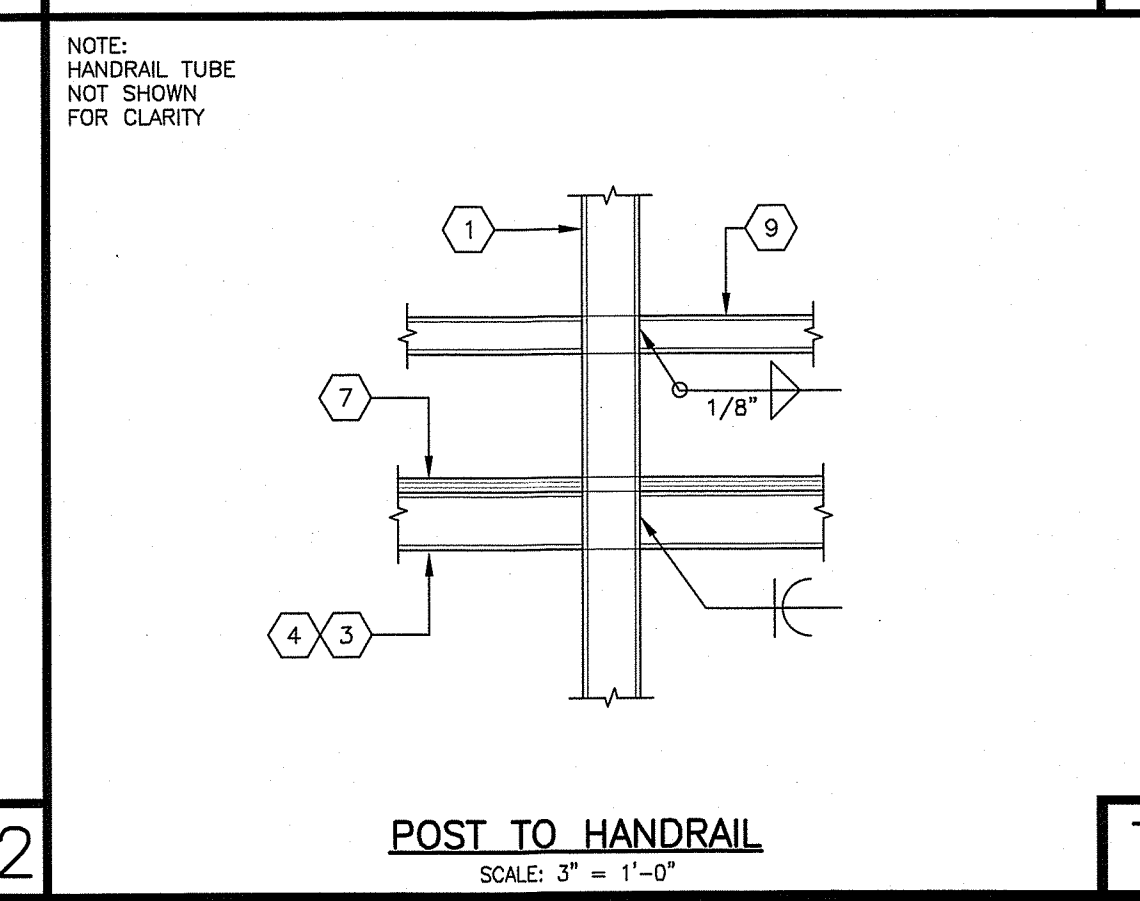
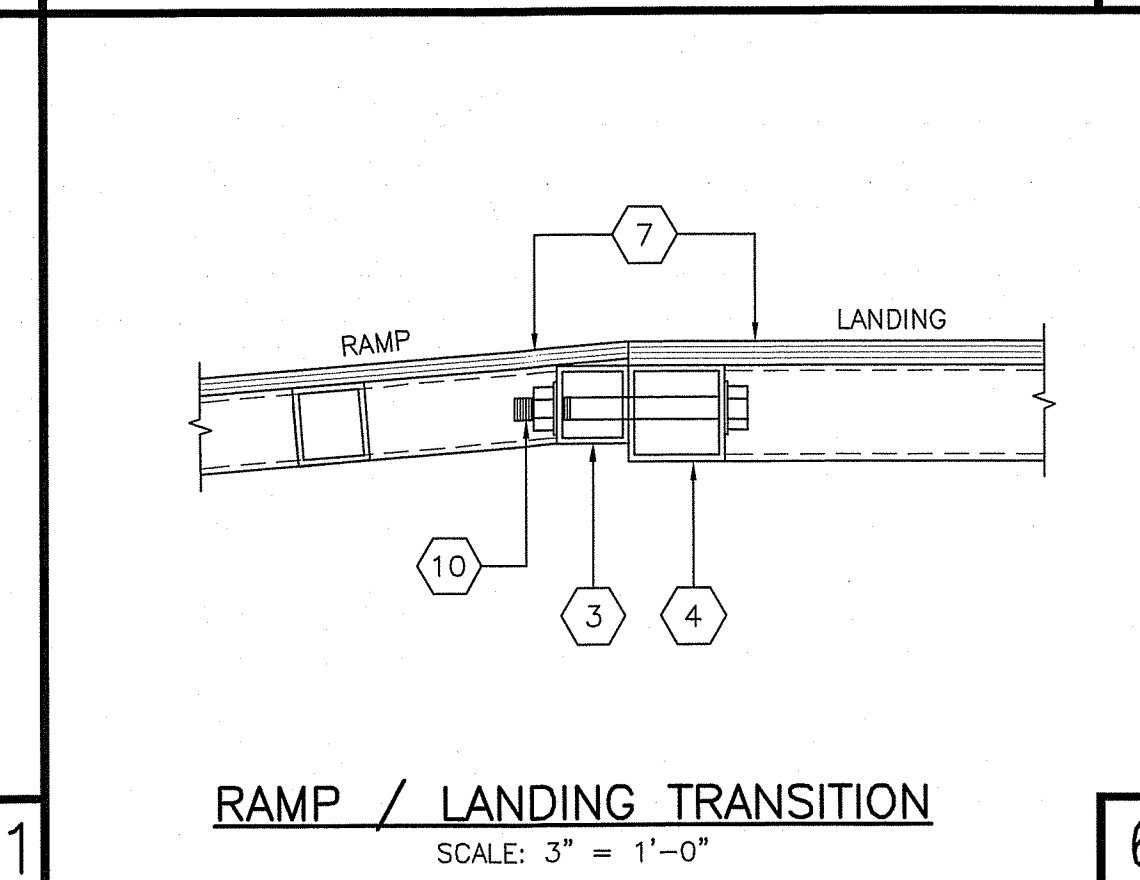
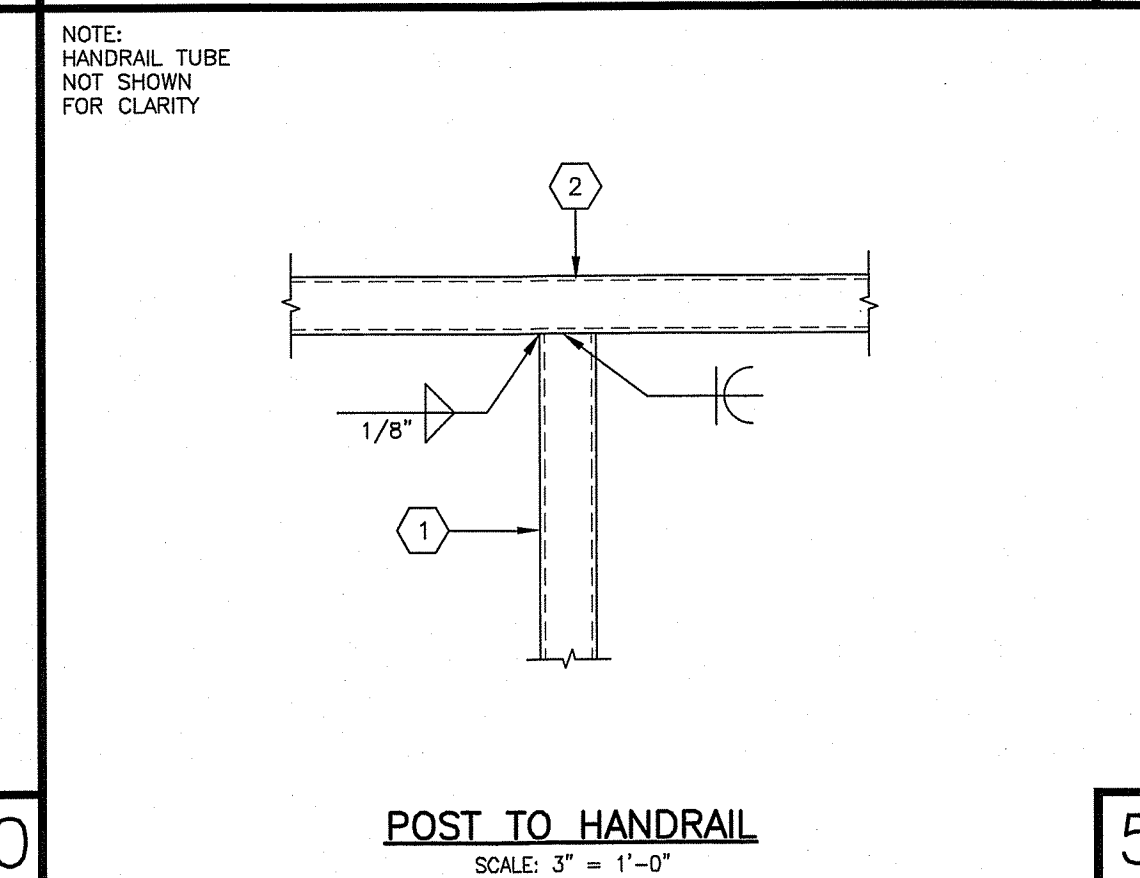
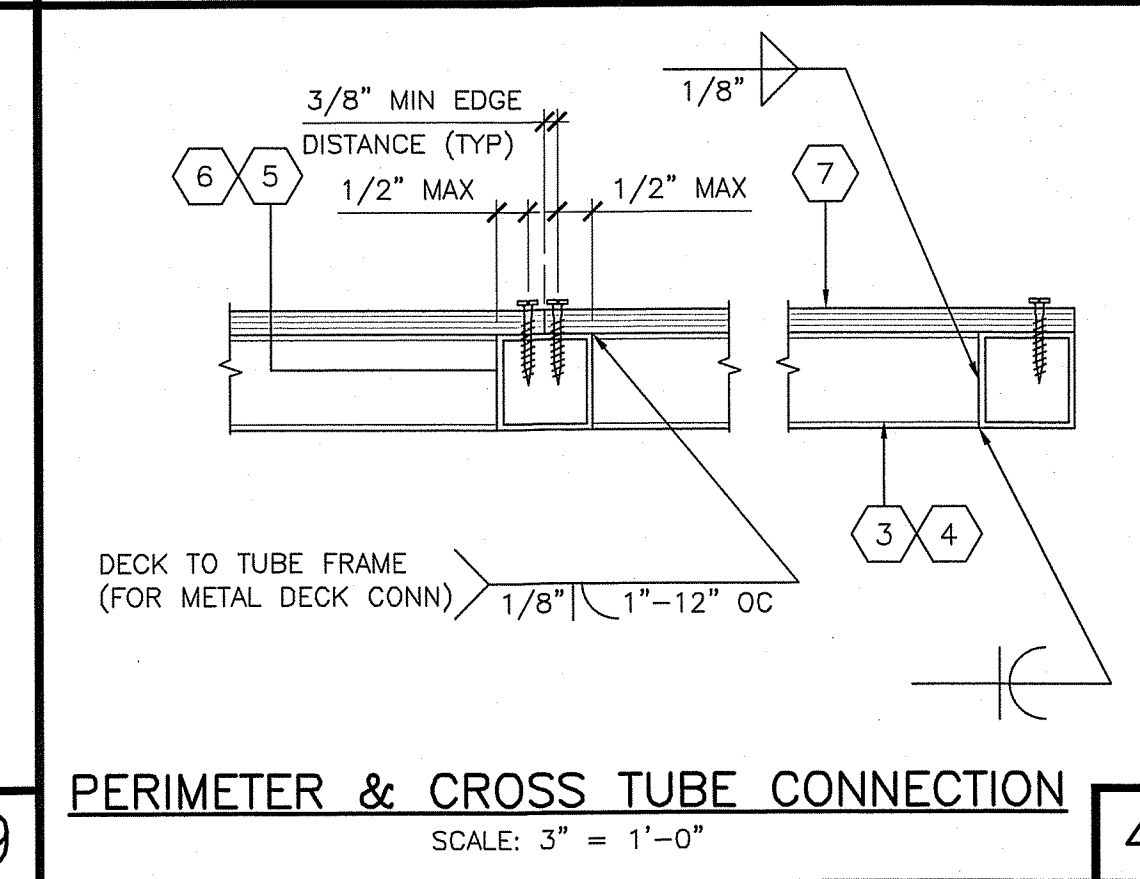
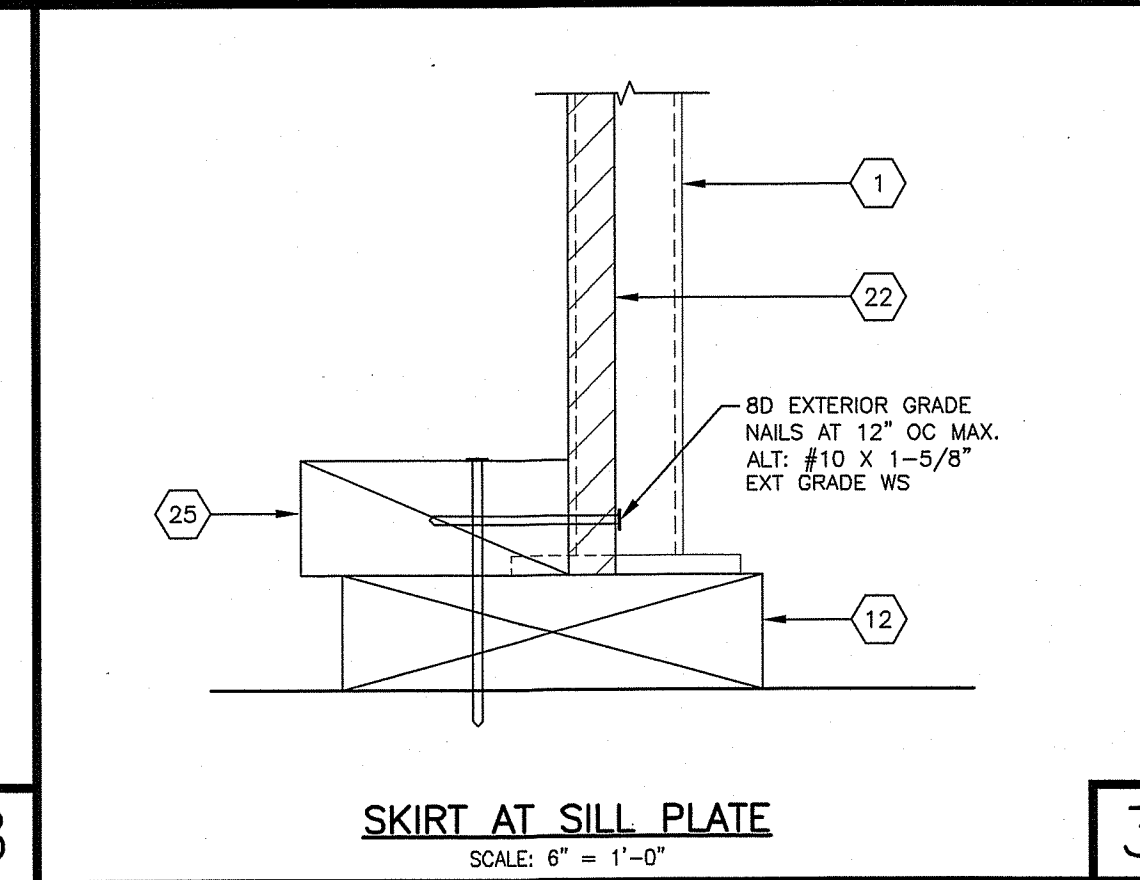
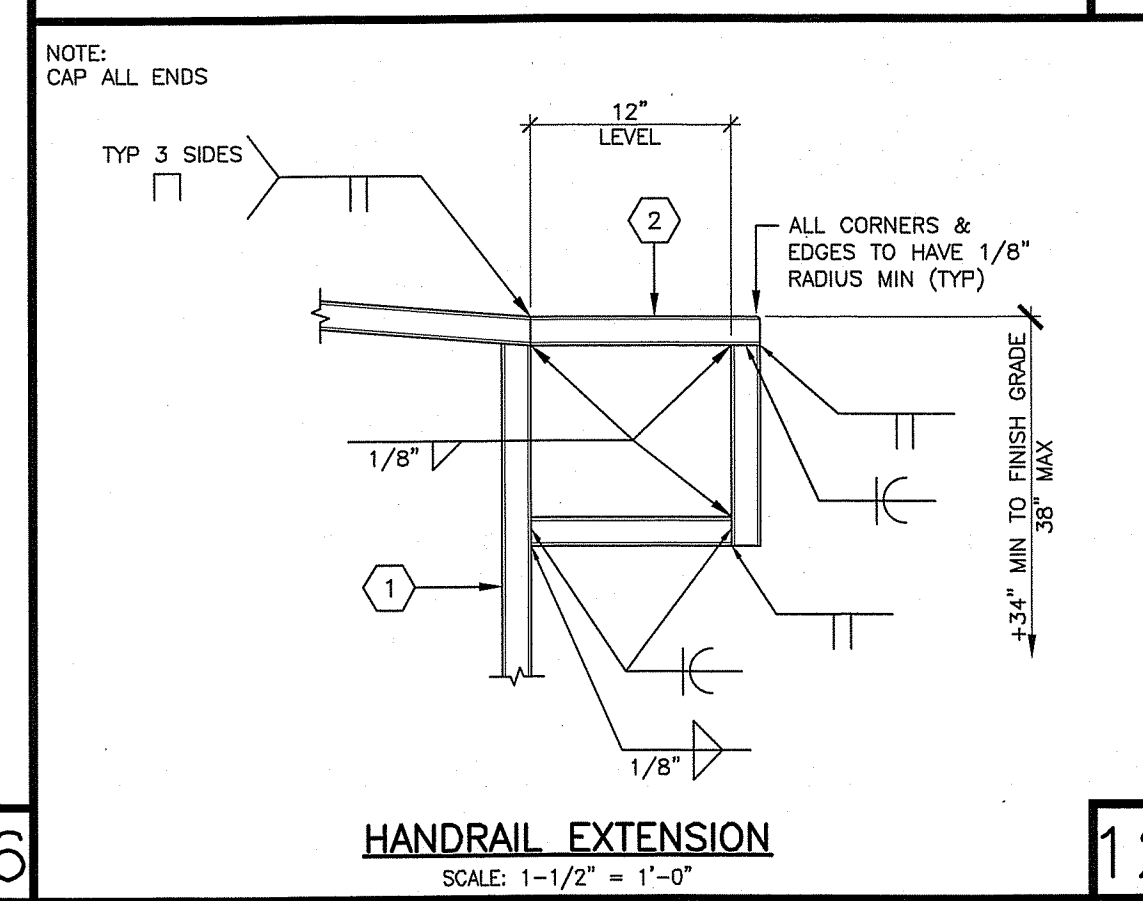
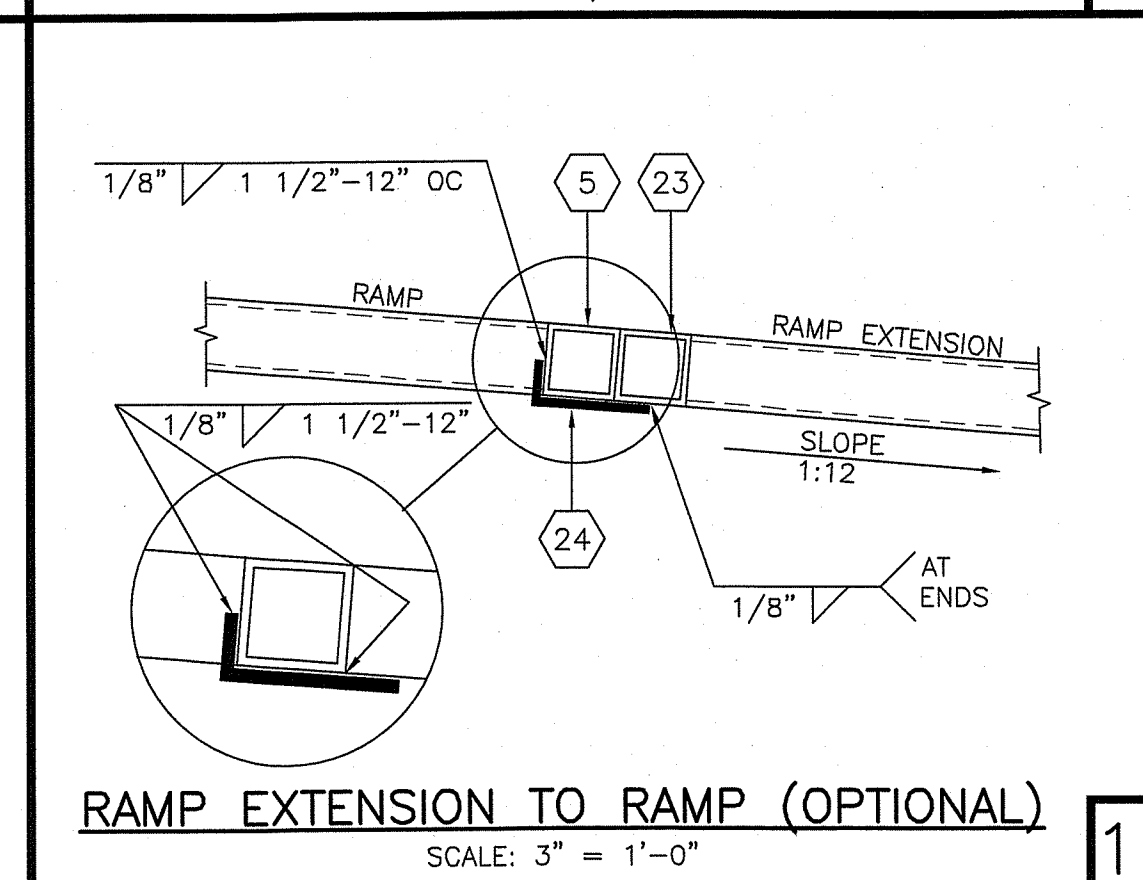
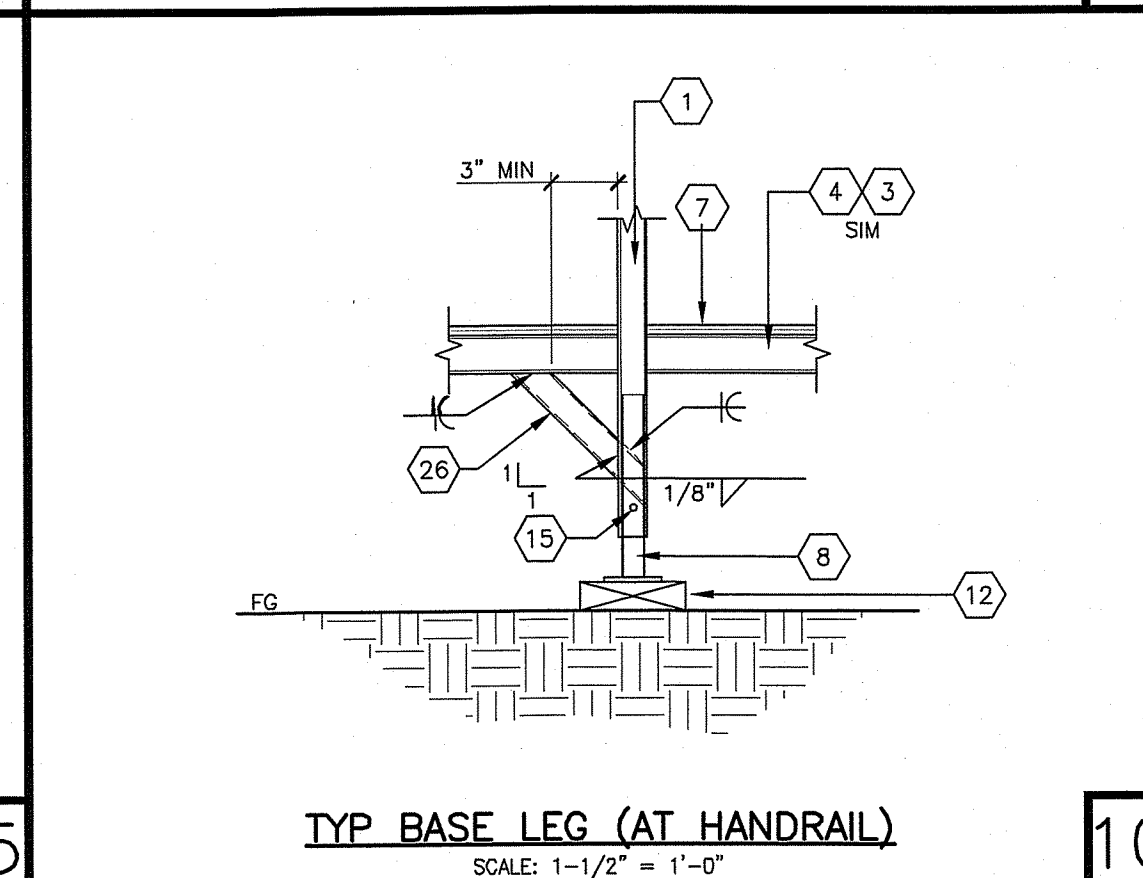
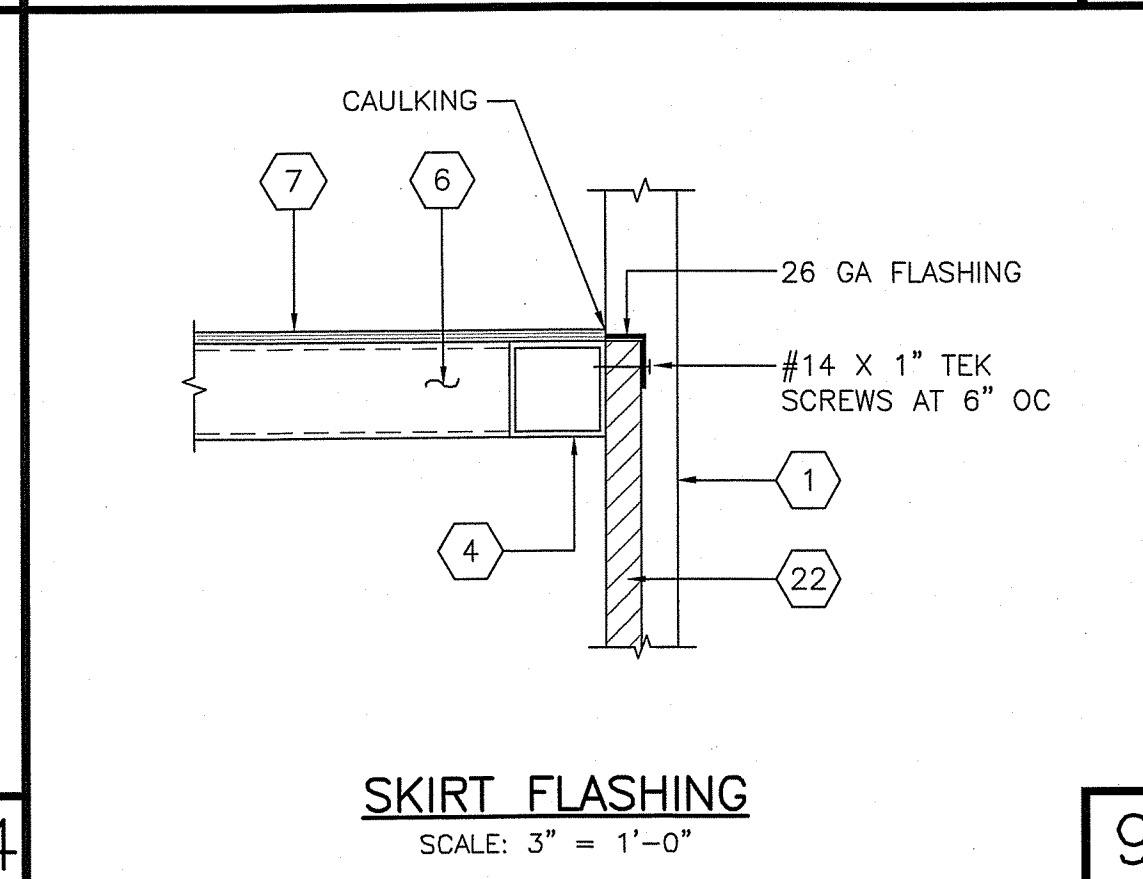
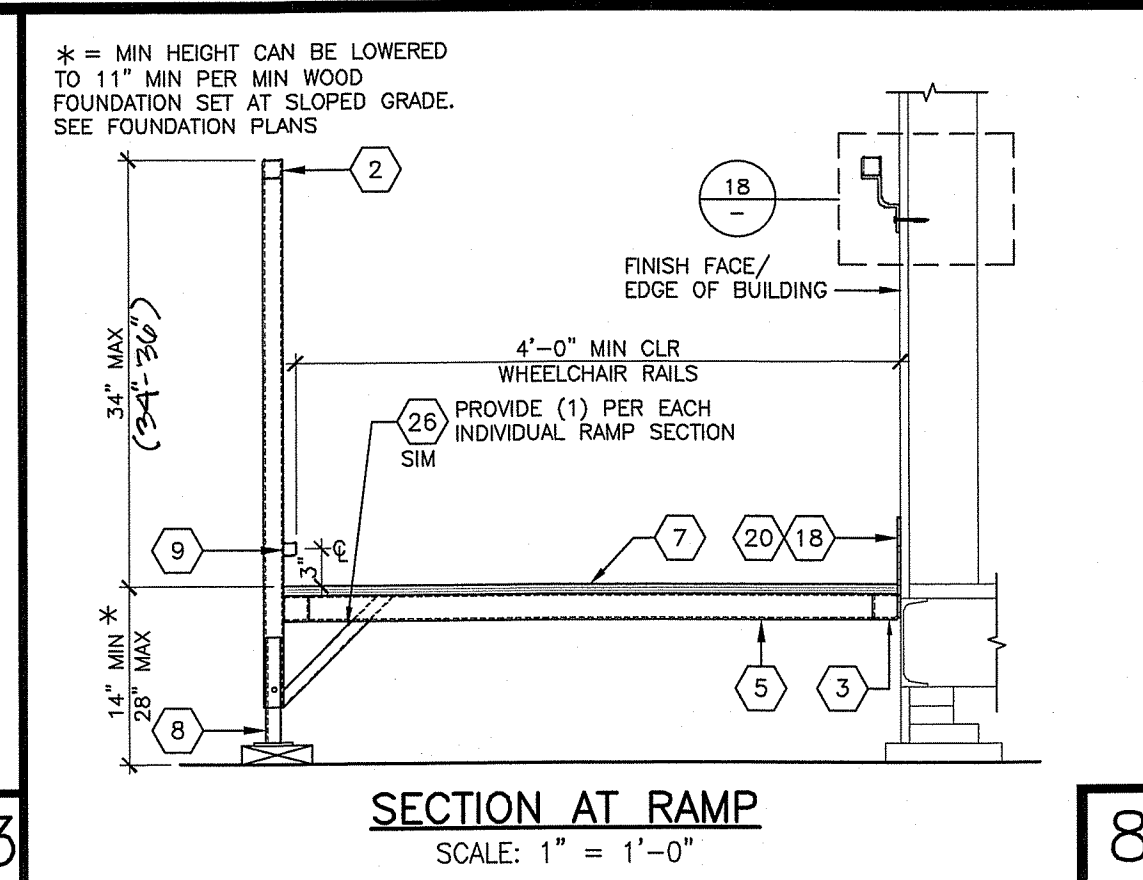
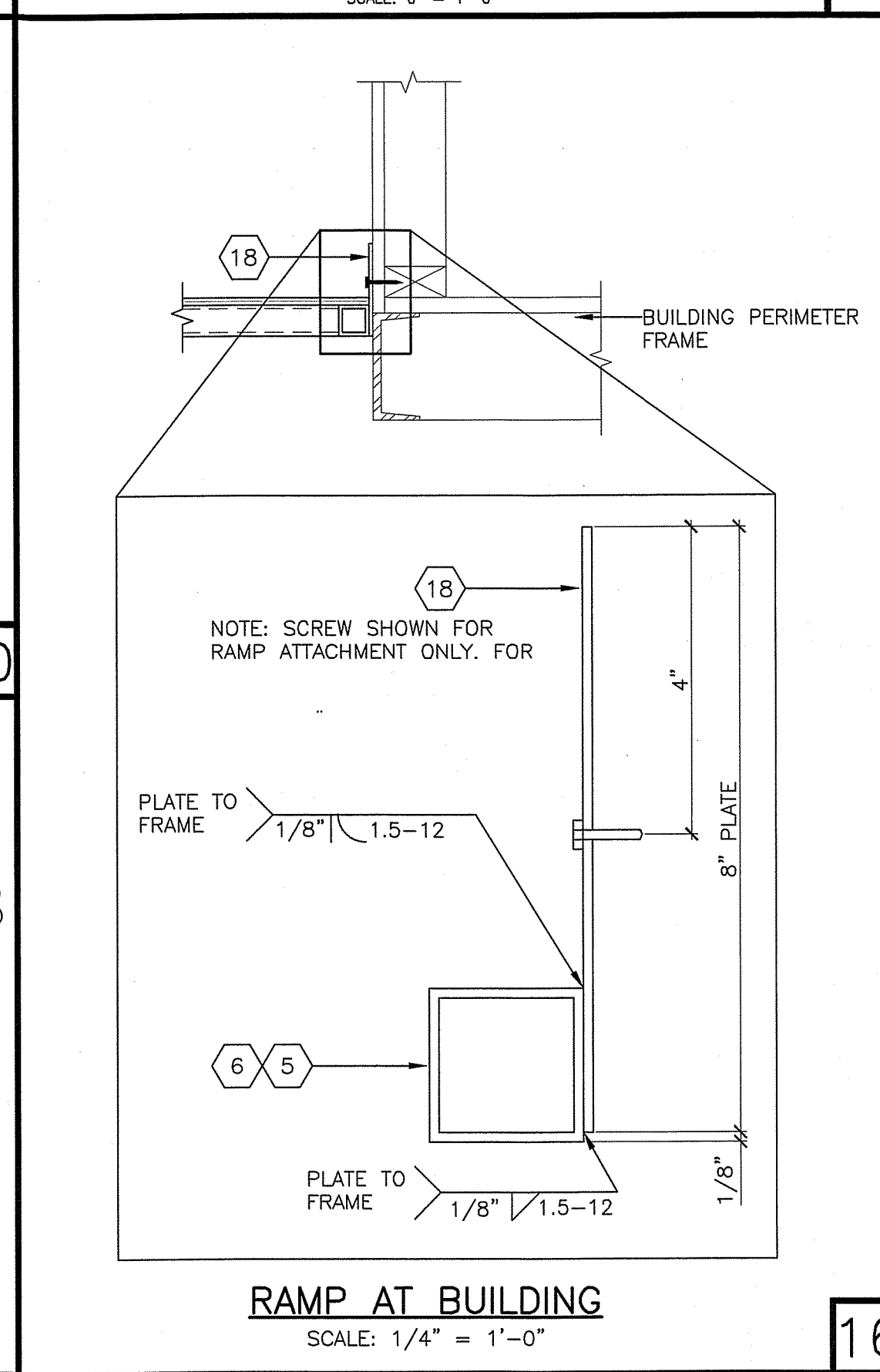
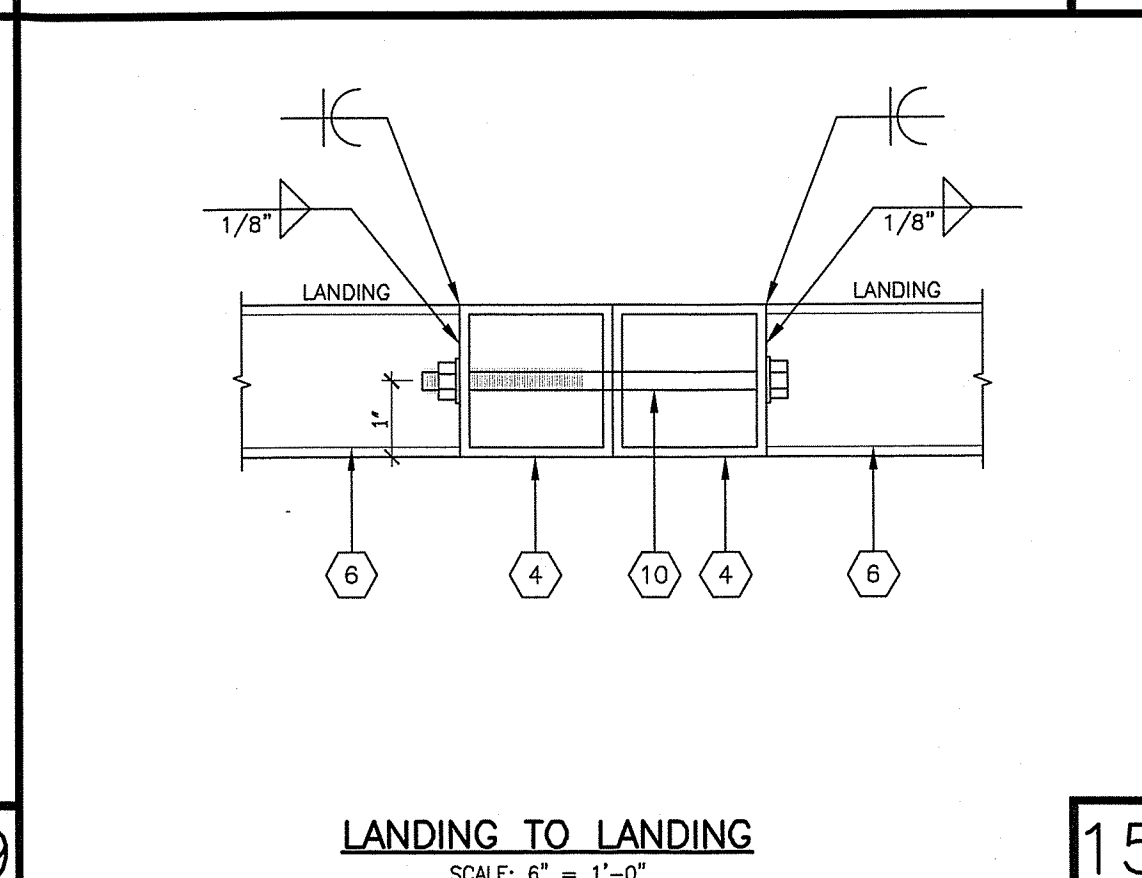
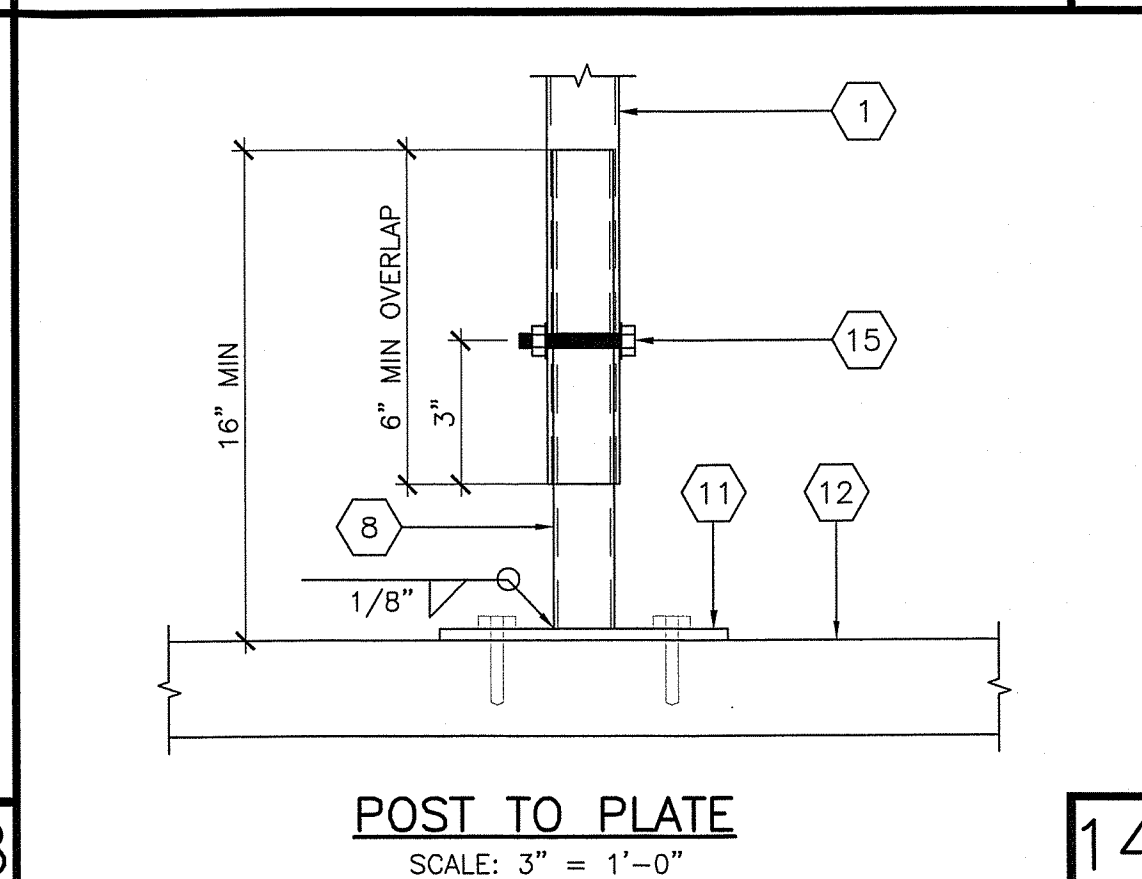
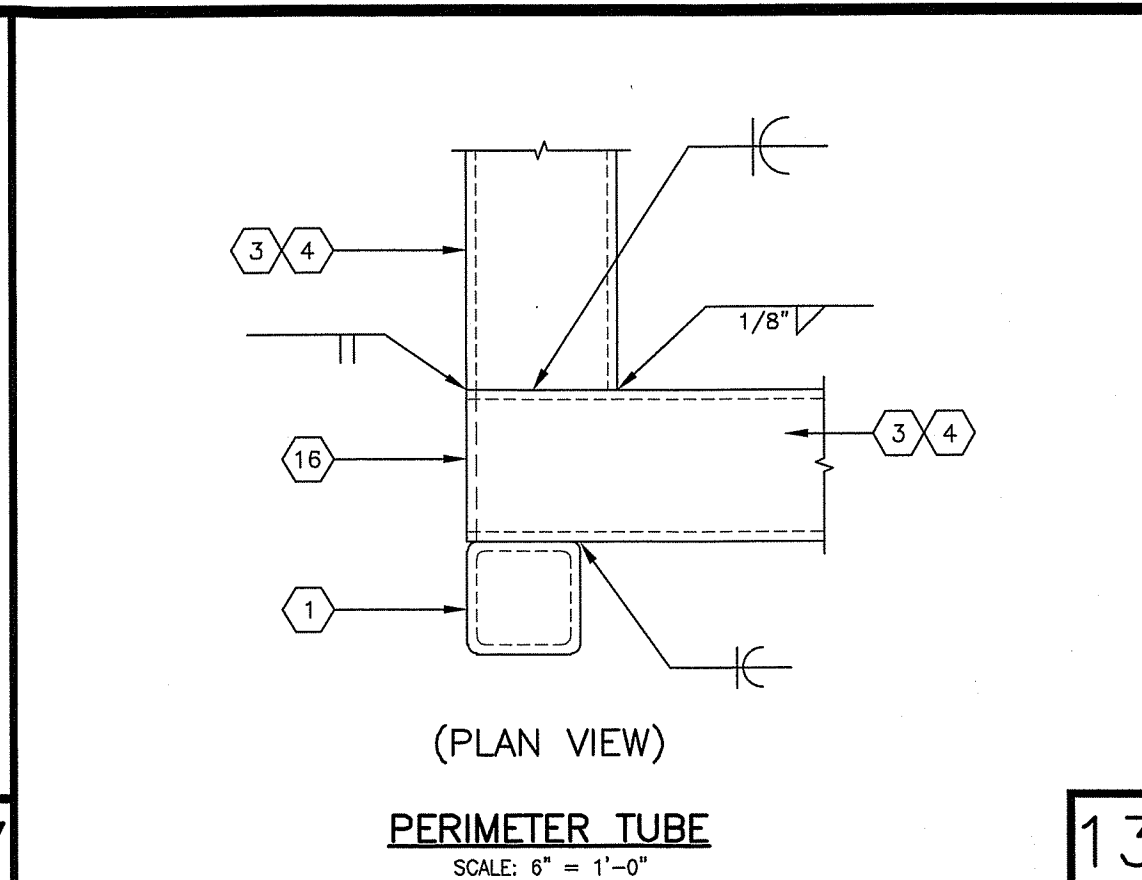
E4.0DL



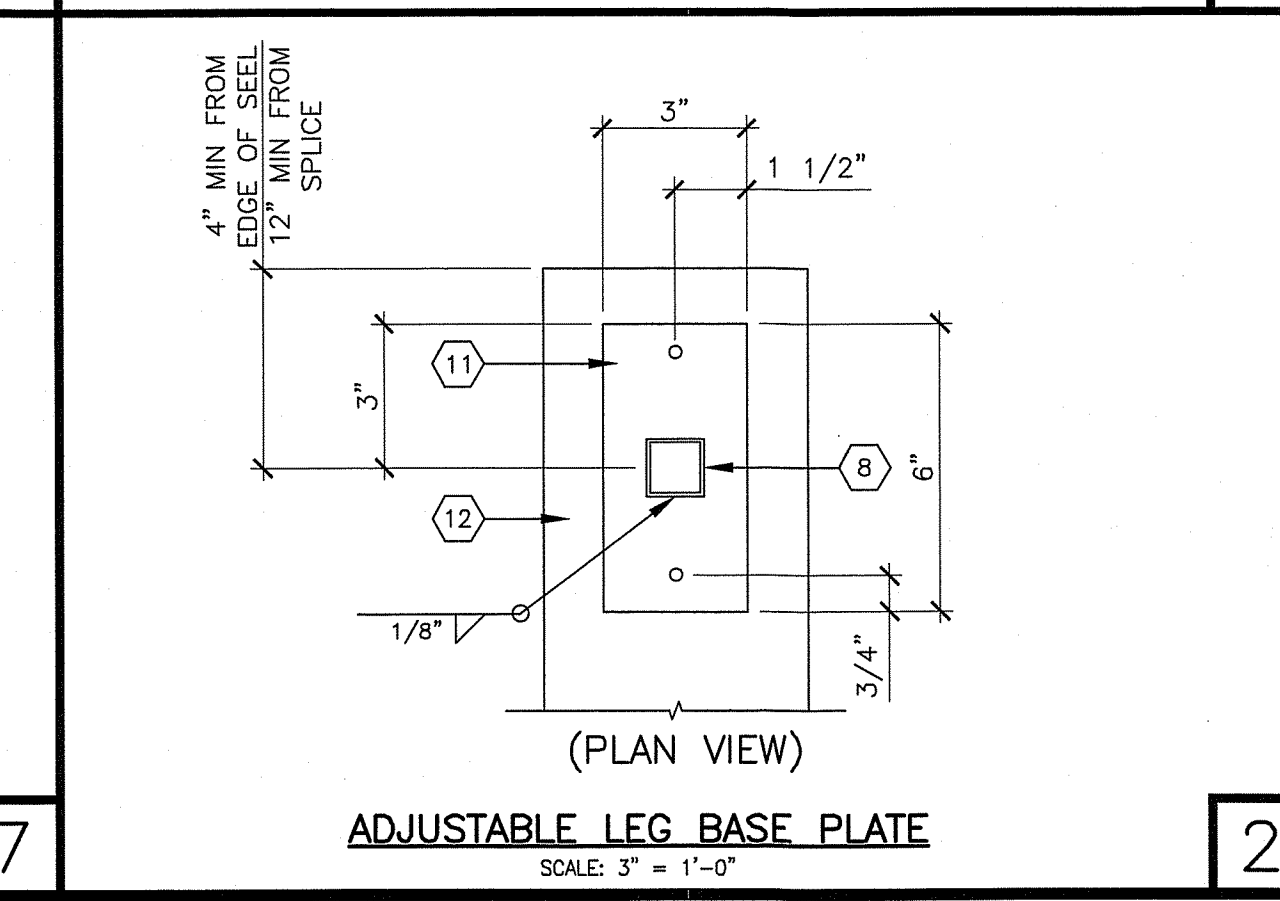
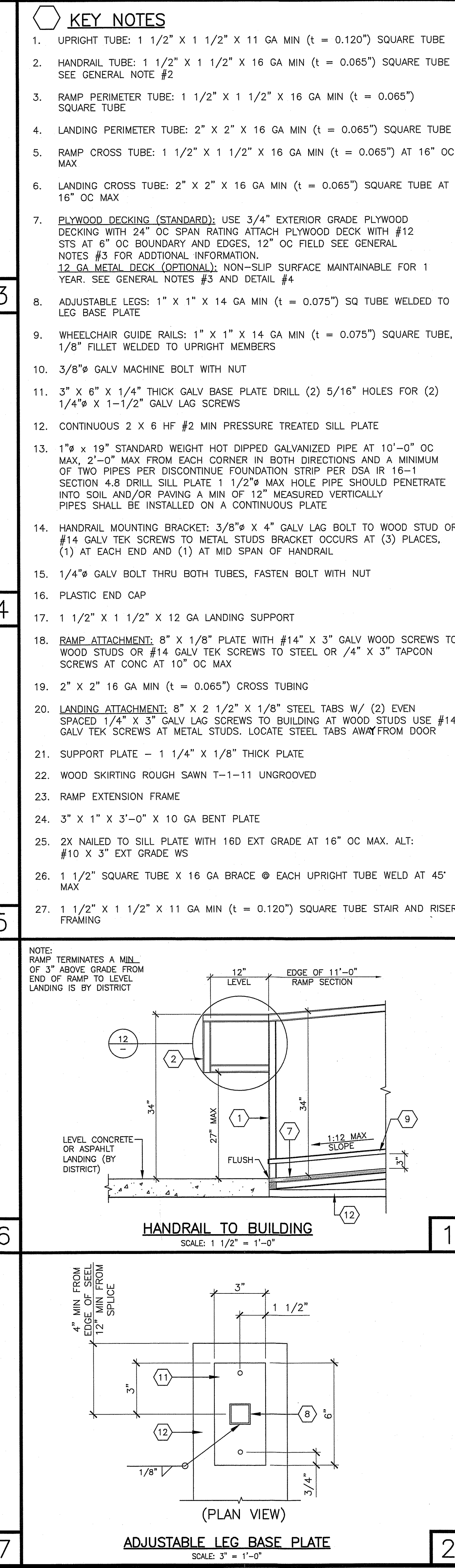


**GENERAL NOTES**

- RAMP: RAMP SHALL NOT SLOPE MORE THAN 1" PER 12" MAX
- HANDRAILS: 11B-505.10.1, RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12" MIN BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN. 11B-505.8 HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES. IF STUCCO OPTION IS USED IT MUST BE SMOOTH BEHIND HAND RAIL PER 11B-505.5
- RAMP/LANDING SURFACES: 0.6 FRICTION FOR LANDING AND 0.8 FOR RAMP PER SECTION 1124B.1 AND ADAAG SECTION 4.5.1
- SITE CONDITION: DUE TO VARIES SITE CONDITIONS, THE MAXIMUM HEIGHT OF FINISH FLOOR FROM GRADE IS 26". THEREFORE IT IS POSSIBLE THAT THE ACCESS RAMP ATTACHED TO THE COMMON LANDING COULD BE 26'-0", AT A SLOPE OF 1:12, THE ARCHITECT MUST TAKE INTO ACCOUNT THAT THE RAMP SUPPLIED BY ICS IS 11'-0", AT A SLOPE OF 1:12 THE ARCHITECT WILL HAVE TO DESIGN AND PROVIDE SUFFICIENT DETAILS OF RAMP EXTENSIONS AND BOTTOM LANDING DEPENDING ON PARTICULAR SITE CONDITIONS ICS WILL NOT BE RESPONSIBLE FOR ANY RAMP EXTENSION EXCEEDING ORIGINAL PLAN AS SHOWN ON PLANS
- ALL TUBE STEEL TO BE OF ASTM A500 GRADE B STEEL (Fy = 46 KSI)
- SEE SHEET A0.1 FOR SPECIFICATION



- KEY NOTES**
- UPRIGHT TUBE: 1 1/2" X 1 1/2" X 11 GA MIN (t = 0.120") SQUARE TUBE
  - HANDRAIL TUBE: 1 1/2" X 1 1/2" X 16 GA MIN (t = 0.065") SQUARE TUBE SEE GENERAL NOTE #2
  - RAMP PERIMETER TUBE: 1 1/2" X 1 1/2" X 16 GA MIN (t = 0.065") SQUARE TUBE
  - LANDING PERIMETER TUBE: 2" X 2" X 16 GA MIN (t = 0.065") SQUARE TUBE
  - RAMP CROSS TUBE: 1 1/2" X 1 1/2" X 16 GA MIN (t = 0.065") AT 16" OC MAX
  - LANDING CROSS TUBE: 2" X 2" X 16 GA MIN (t = 0.065") SQUARE TUBE AT 16" OC MAX
  - PLYWOOD DECKING (STANDARD): USE 3/4" EXTERIOR GRADE PLYWOOD DECKING WITH 24" OC SPAN RATING ATTACH PLYWOOD DECK WITH #12 STS AT 6" OC BOUNDARY AND EDGES, 12" OC FIELD SEE GENERAL NOTES #3 FOR ADDITIONAL INFORMATION.  
12 GA METAL DECK (OPTIONAL): NON-SLIP SURFACE MAINTAINABLE FOR 1 YEAR. SEE GENERAL NOTES #3 AND DETAIL #4
  - ADJUSTABLE LEGS: 1" X 1" X 14 GA MIN (t = 0.075") SQ TUBE WELDED TO LEG BASE PLATE
  - WHEELCHAIR GUIDE RAILS: 1" X 1" X 14 GA MIN (t = 0.075") SQUARE TUBE, 1/8" FILLET WELDED TO UPRIGHT MEMBERS
  - 3/8" GALV MACHINE BOLT WITH NUT
  - 3" X 6" X 1/4" THICK GALV BASE PLATE DRILL (2) 5/16" HOLES FOR (2) 1/4" X 1-1/2" GALV LAG SCREWS
  - CONTINUOUS 2 X 6 HF #2 MIN PRESSURE TREATED SILL PLATE
  - 1" X 19" STANDARD WEIGHT HOT DIPPED GALVANIZED PIPE AT 10'-0" OC MAX, 2'-0" MAX FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES PER DISCONTINUE FOUNDATION STRIP PER DSA IR 16-1 SECTION 4.8 DRILL SILL PLATE 1 1/2" MAX HOLE PIPE SHOULD PENETRATE INTO SOIL AND/OR PAVING A MIN OF 12" MEASURED VERTICALLY PIPES SHALL BE INSTALLED ON A CONTINUOUS PLATE
  - HANDRAIL MOUNTING BRACKET: 3/8" X 4" GALV LAG BOLT TO WOOD STUD OR #14 GALV TEK SCREWS TO METAL STUDS BRACKET OCCURS AT (3) PLACES, (1) AT EACH END AND (1) AT MID SPAN OF HANDRAIL
  - 1/4" GALV BOLT THRU BOTH TUBES, FASTEN BOLT WITH NUT
  - PLASTIC END CAP
  - 1 1/2" X 1 1/2" X 12 GA LANDING SUPPORT
  - RAMP ATTACHMENT: 8" X 1/8" PLATE WITH #14" X 3" GALV WOOD SCREWS TO WOOD STUDS OR #14 GALV TEK SCREWS TO STEEL OR /4" X 3" TAPCON SCREWS AT CONC AT 10" OC MAX
  - 2" X 2" 16 GA MIN (t = 0.065") CROSS TUBING
  - LANDING ATTACHMENT: 8" X 2 1/2" X 1/8" STEEL TABS W/ (2) EVEN SPACED 1/4" X 3" GALV LAG SCREWS TO BUILDING AT WOOD STUDS USE #14 GALV TEK SCREWS AT METAL STUDS. LOCATE STEEL TABS AWAY FROM DOOR
  - SUPPORT PLATE - 1 1/4" X 1/8" THICK PLATE
  - WOOD SKIRTING ROUGH SAWN T-1-11 UNGROOVED
  - RAMP EXTENSION FRAME
  - 3" X 1" X 3'-0" X 10 GA BENT PLATE
  - 2X NAILED TO SILL PLATE WITH 16D EXT GRADE AT 16" OC MAX. ALT: #10 X 3" EXT GRADE WS
  - 1 1/2" SQUARE TUBE X 16 GA BRACE @ EACH UPRIGHT TUBE WELD AT 45' MAX
  - 1 1/2" X 1 1/2" X 11 GA MIN (t = 0.120") SQUARE TUBE STAIR AND RISER FRAMING



PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
INCORPORATED  
**AURORA MODTECH**  
DESIGNS  
CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 665-5800  
FAX: (559) 665-5700  
WEBSITE: WWW.GDM.NET

SOUTHERN CALIFORNIA DIVISION  
1680 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3662  
WEBSITE: WWW.GDM.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

**RAMP AND LANDING DETAILS**

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED: DEC 11 2018  
No. 3002  
STATE OF CALIFORNIA  
REGISTERED PROFESSIONAL  
STRUCTURAL ENGINEER

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

PRE-CHECK (PC) DOCUMENT  
CODE: 2016 CBC  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC 02-116677  
FILE # 2018-0000  
AC ☒ FLS ☒ SS ☒  
DATE: DEC 14 2018

REVISIONS

PROJECT NO.:	00-0000
DRAWN BY:	00
SCALE:	AS NOTED
DATE:	00-00-00
SHEET NUMBER	

**R0.0**



## KEY NOTES

REFER TO SHEET R0.0 FOR ALL KEYNOTE REFERENCES AND GENERAL NOTES

## GENERAL RAMP/LANDING/STAIR NOTE

IF SPECIAL INSPECTIONS FOR STRUCTURAL WELDING FOR THE RAMP IS EXEMPTED BY THE DESIGN PROFESSIONAL ON THE FORM DSA 103, THE FOLLOWING CRITERIA SHALL BE MET:

THE DESIGN PROFESSIONAL HAS EXEMPTED THIS RAMP FROM SPECIAL INSPECTION REQUIREMENTS FOR MATERIAL IDENTIFICATION AND STRUCTURAL WELDING. RAMP SHALL NOT BE MODIFIED OR HAVE SHIMS ADDED CAUSING THE DISTANCE BETWEEN THE HIGHEST RAMP WALKING SURFACE AND THE ADJACENT GRADE TO BE MORE THAN 30 INCHES. IF THIS CONDITION IS NOT MET, THE STRUCTURAL TESTING AND/OR INSPECTION WILL BE REQUIRED TO VERIFY MATERIALS AND STRUCTURAL WELDING. THIS APPLIES TO SCOPES OF WORK INCLUDING NEW CONSTRUCTION, ALTERATION, OR RELOCATION OF THE RAMP.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-118411 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 06/11/2020

**GLOBAL MODULAR**  
INCORPORATED

**AURORA MODTECH**  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
1200 AIRPORT DRIVE  
CHOWCHILLA, CA 93610  
PHONE: (559) 685-5800  
FAX: (559) 685-5700  
WEBSITE: WWW.GDMV.NET

SOUTHERN CALIFORNIA DIVISION  
1660 CHICAGO AVE., SUITE #M-21  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3692  
WEBSITE: WWW.GDMV.NET

THIS DRAWING AND THE MATERIAL CONTAINED THEREIN ARE THE PROPERTY OF GLOBAL MODULAR, INC. AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF GLOBAL MODULAR, INC. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH GLOBAL MODULAR, INC. SHALL BE THE PROPERTY OF GLOBAL MODULAR, INC.

PROJECT NAME:

SHEET TITLE:

**RAMP AND LANDING PLAN  
(FREESTANDING HANDRAILS)**

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

DATE SIGNED  
DEC 11 2018

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

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

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
PC/02-116677  
DATE: DEC 14 2018

REVISIONS

REVISIONS

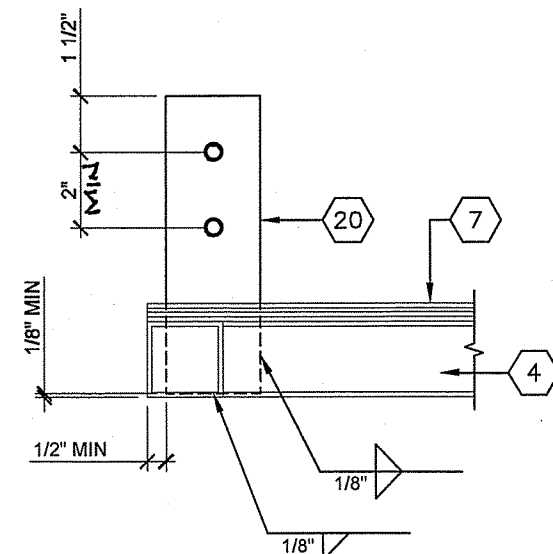
PROJECT NO.: 00-0000  
DRAWN BY: 00  
SCALE: AS NOTED  
DATE: 00-00-00

SHEET NUMBER

**R2.0**

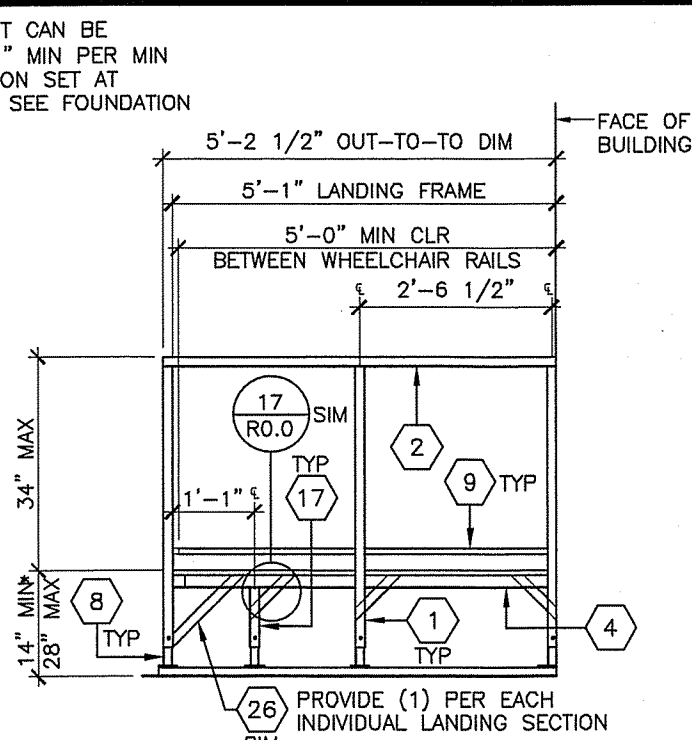
## STEEL TAB AT LANDINGS

SCALE: 3" = 1'-0"



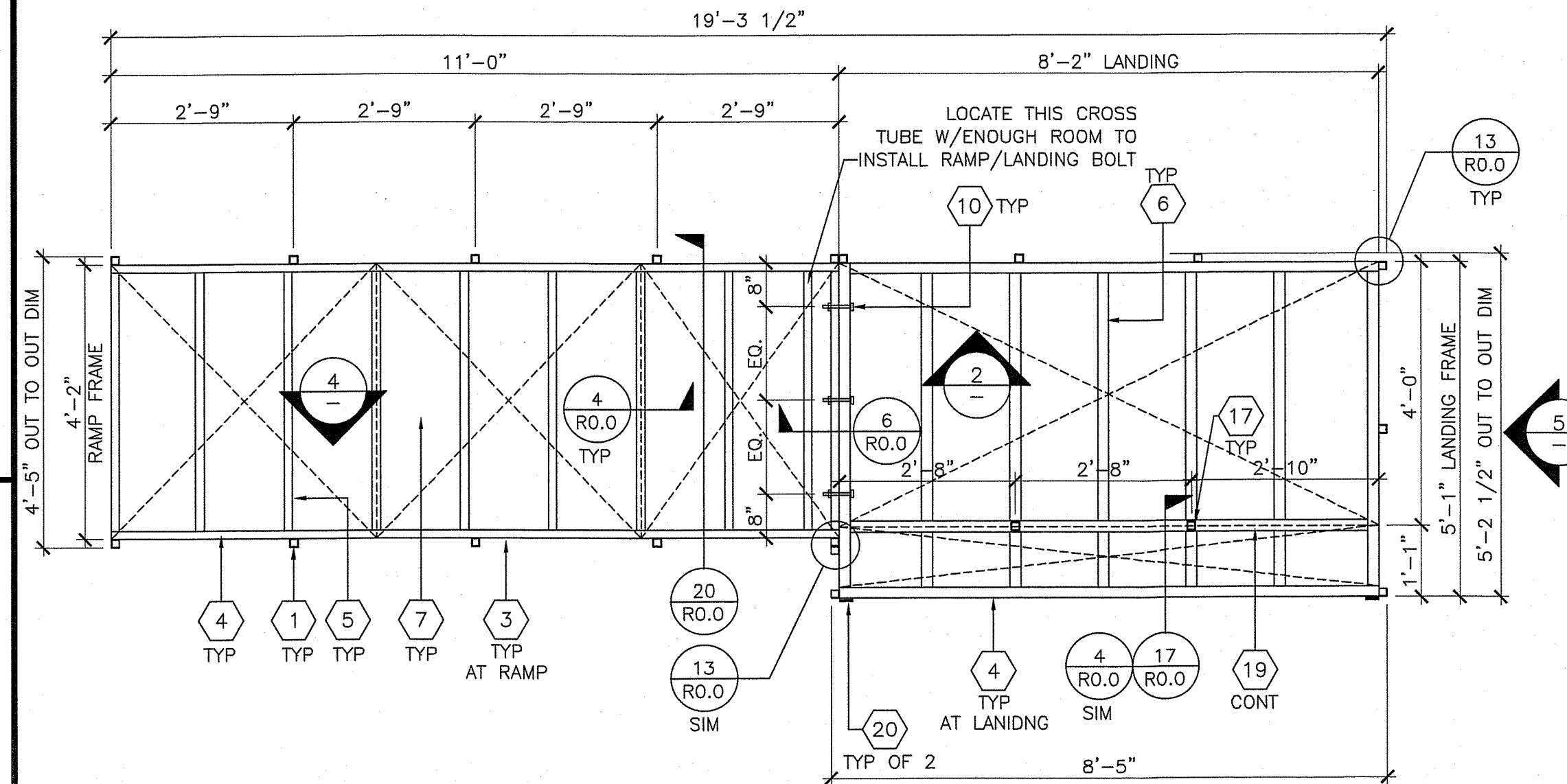
## ELEVATION

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



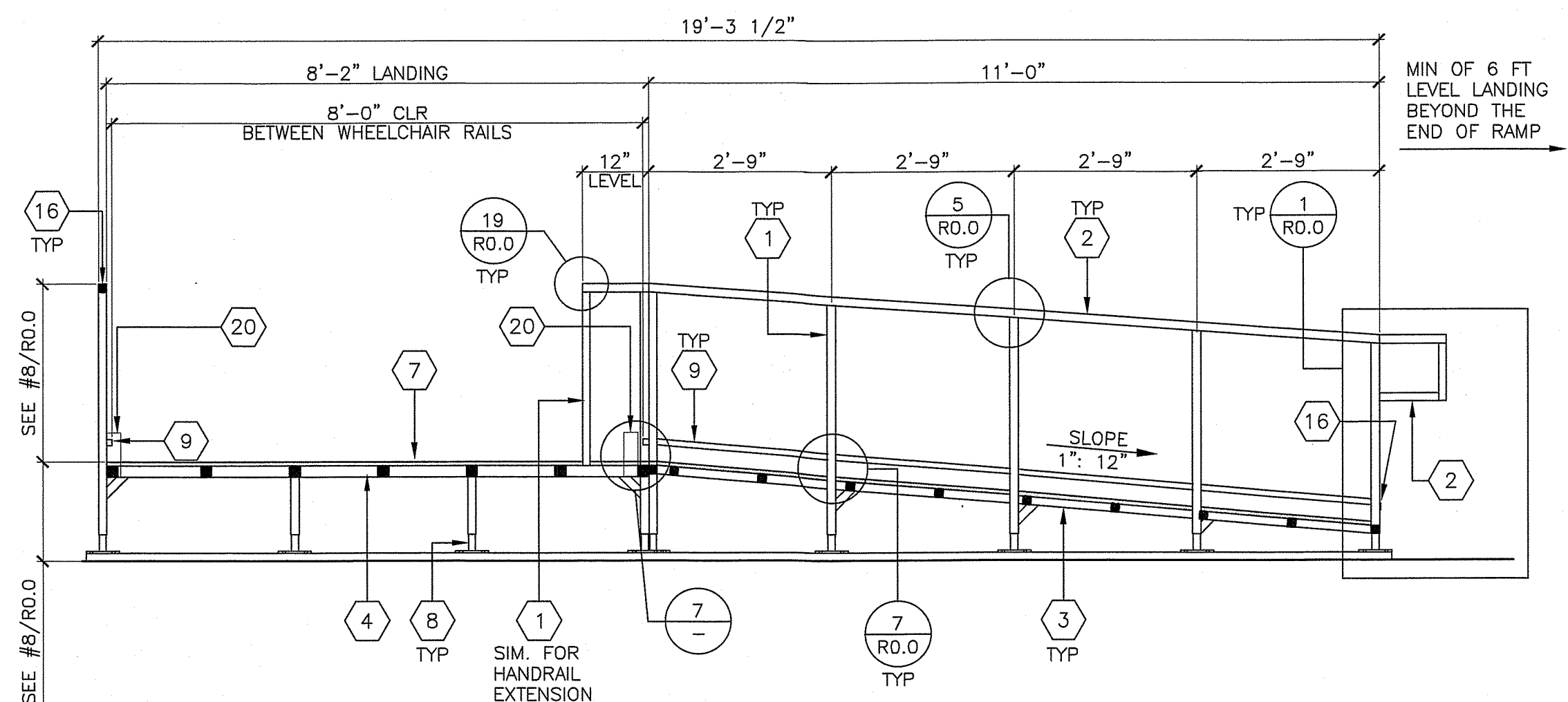
## FRAMING PLAN

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



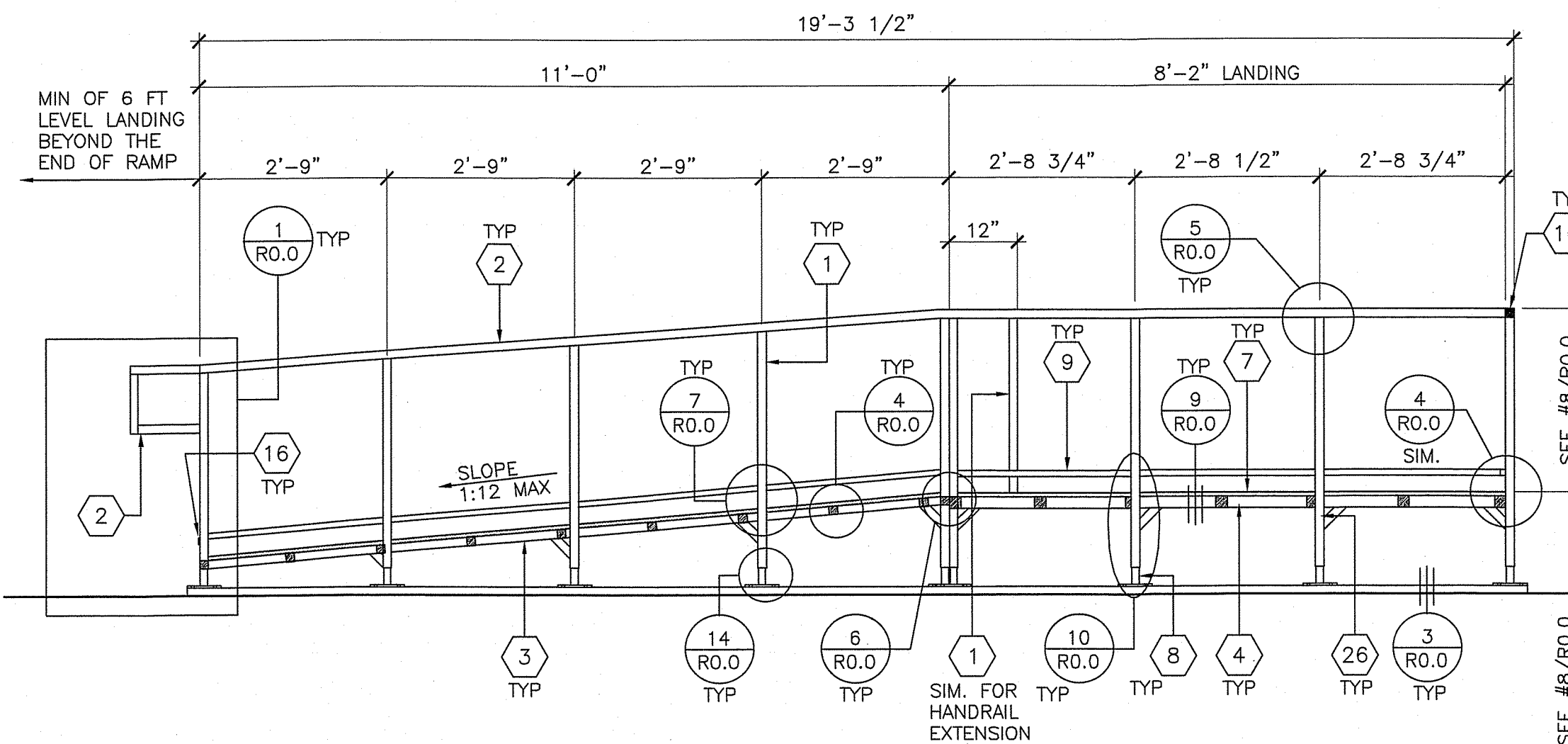
## ELEVATION

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



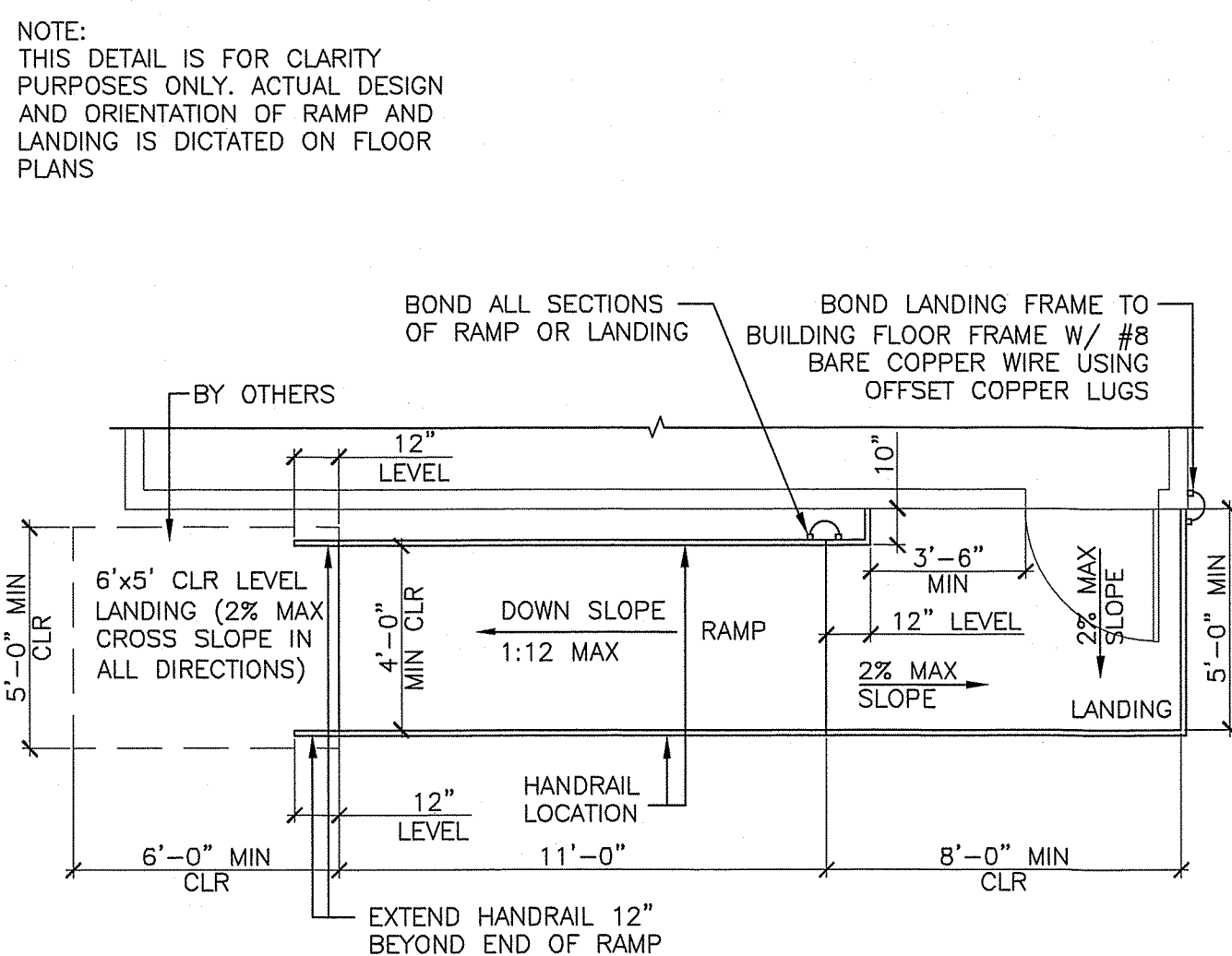
## ELEVATION

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



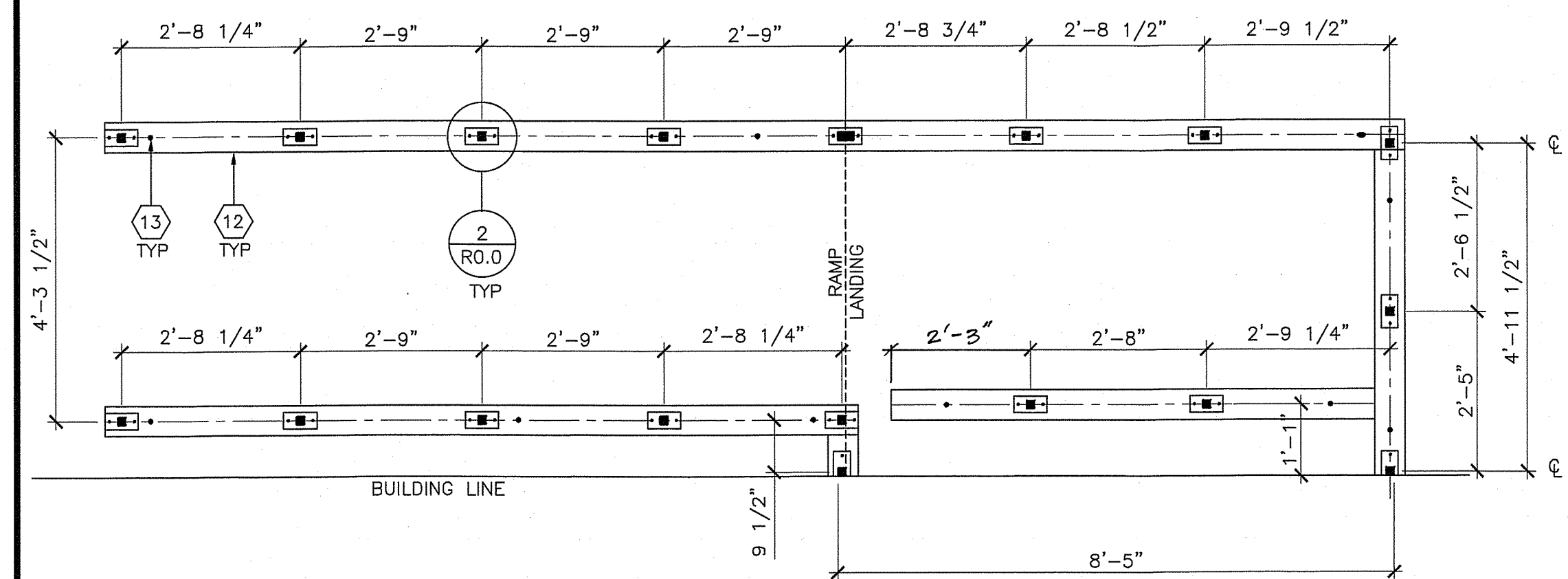
## RAMP AND LANDING PLAN VIEW

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

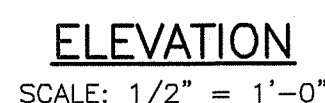
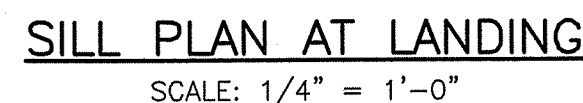
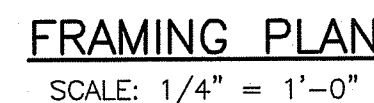
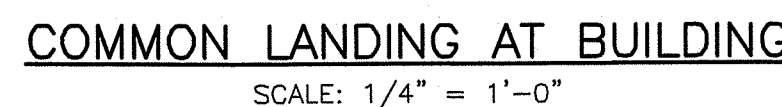
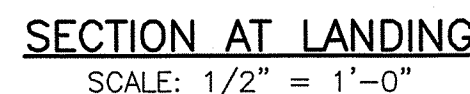
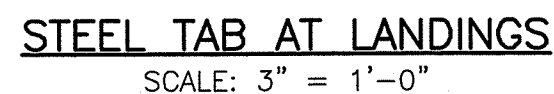


## SILL PLATE AT RAMP AND LANDING

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







# R4.0