

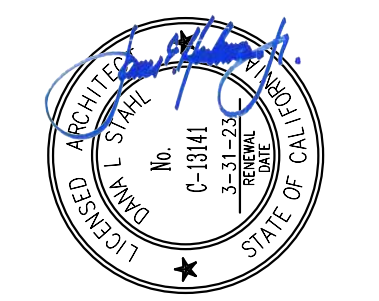


6'-0" TALL CHAIN LINK ROLLING GATE	MEMBER SIZE:	'A'	'B'
LINE POSTS 8'-0" O.C. MAX.	4.00"Ø O.D. 9.11 PLF	30"	12"Ø
GATE POST FOR LEAF TO 30'-0" WIDE	4.00"Ø O.D. 9.11 PLF	48"	18"Ø
TOP AND BRACE RAILS	1.66" O.D. 2.27 PLF	--	--

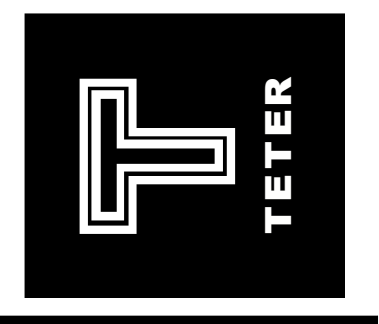


GATE SCHEDULE	1
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MERCED COLLEGE | MCCD  
22240 CA-152 LOS BANOS, CA.

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DRAWING TITLE  
SITE DETAILS

PROJECT NO.  
22-12075

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DRAWING  
**A111**

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INCREMENT










$$1'' = 1' - 0''$$

1

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SITE DETAILS

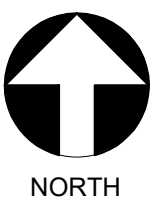
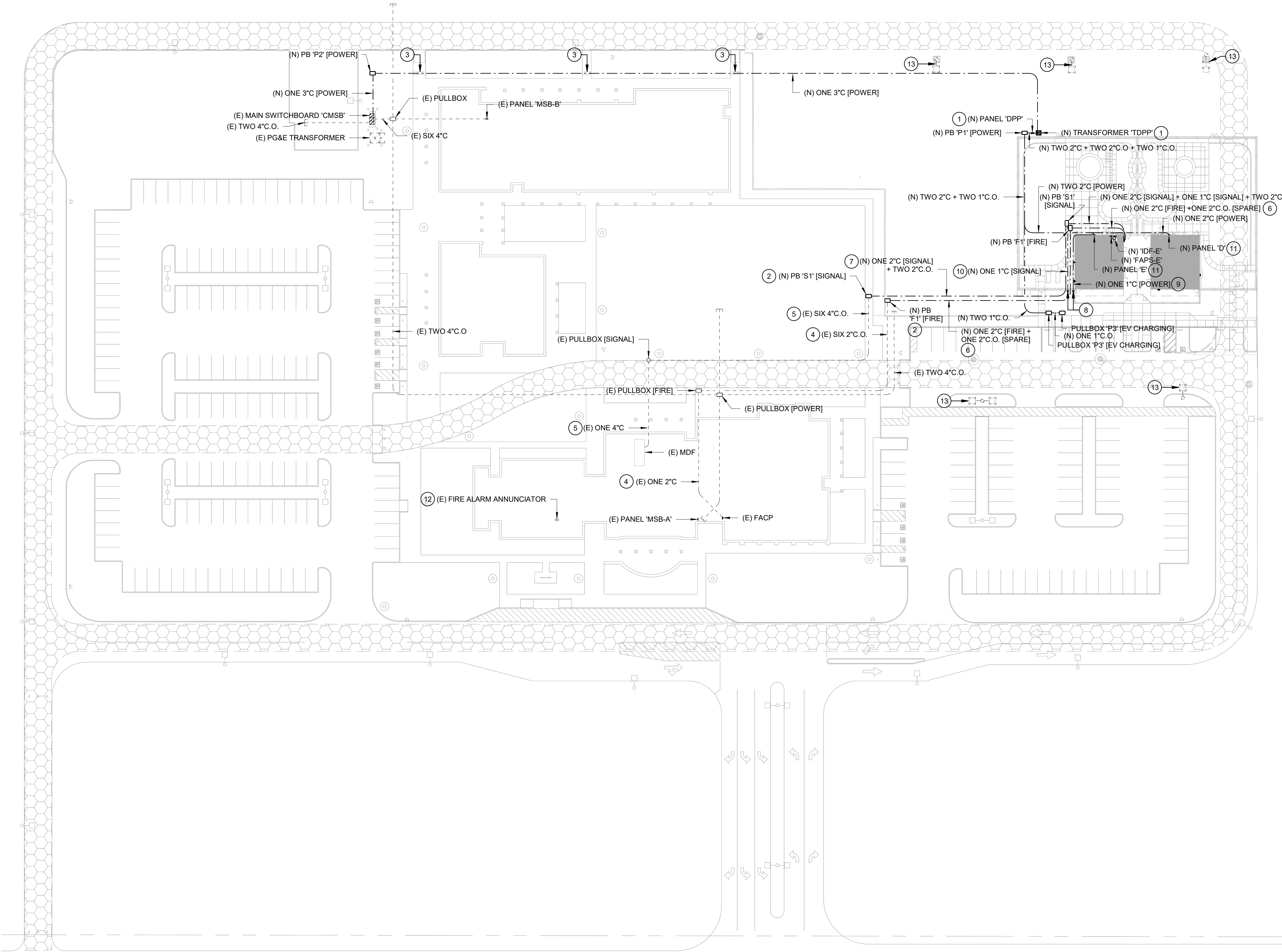
22-12075

A113

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	11/28/2002	DSA BACKCHECK



1" = 40'-0"

1

## KEYNOTES

- 1 INSTALL PER DETAIL 12/E600.
- 2 PROVIDE (N) PULLBOX AT (E) CONDUIT LOCATION. PROVIDE SWEEPS ON EXISTIN GUNDERGROUND CONDUIT TO TURN UP INTO (N) PULL BOX TO FACILITATE USE OF EXISTING UNDERGROUND CONDUITS.
- 3 SAW CUT AND PATCH (E) CONCRETE TO FACILITATE CONDUIT INSTALLATION.
- 4 PROVIDE ONE TYPE 'FAS' CABLE IN ONE (E) 2" UNDERGROUND CONDUIT.
- 5 PROVIDE ONE TYPE 'FO' CABLE IN ONE (E) 4" UNDERGROUND CONDUIT.
- 6 PROVIDE ONE 2"C WITH ONE TYPE 'FAS' CABLE + ONE 2"C.O. (SPARE).
- 7 PROVIDE ONE 2"C WITH ONE TYPE 'FO' CABLE + ONE 2"C.O. (SPARE).
- 8 PROVIDE 120V POWER CONNECTION AND DATA CONNECTION TO IRRIGATION CONTROLLER.
- 9 PROVIDE ONE 1"C, 2#12 CU THWN AND 1#12 CU GND.
- 10 PROVIDE ONE 1"C WITH ONE TYPE 'D' CABLE.
- 11 PANEL PROVIDED BY MODULAR BUILDING MANUFACTURER.
- 12 (E) FIRE ALARM ANNUNCIATOR TO REMAIN.
- 13 (E) POLE MOUNTED SITE LIGHTING TO REMAIN.

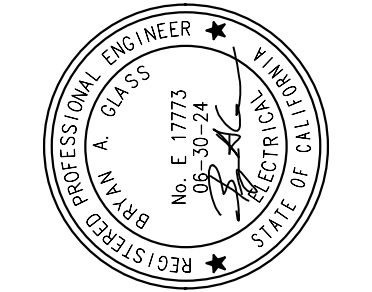
## GENERAL NOTES

- A. PROVIDE ELECTRICAL FEEDERS PER SINGLE LINE DIAGRAM ON E700.
- B. PROVIDE PULLBOXES PER DETAIL 3/E600.
- C. SITE CONDUITS SHALL BE INSTALLED A MINIMUM OF 36" BELOW FINAL GRADE TO TOP OF CONDUIT.
- D. SPECIAL PRECAUTION SHALL BE TAKEN WHEN TRENCHING TO LOCATE, PROTECT AND PRESERVE EXISTING UNDERGROUND UTILITIES. ANY DAMAGE CAUSED DURING THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED.

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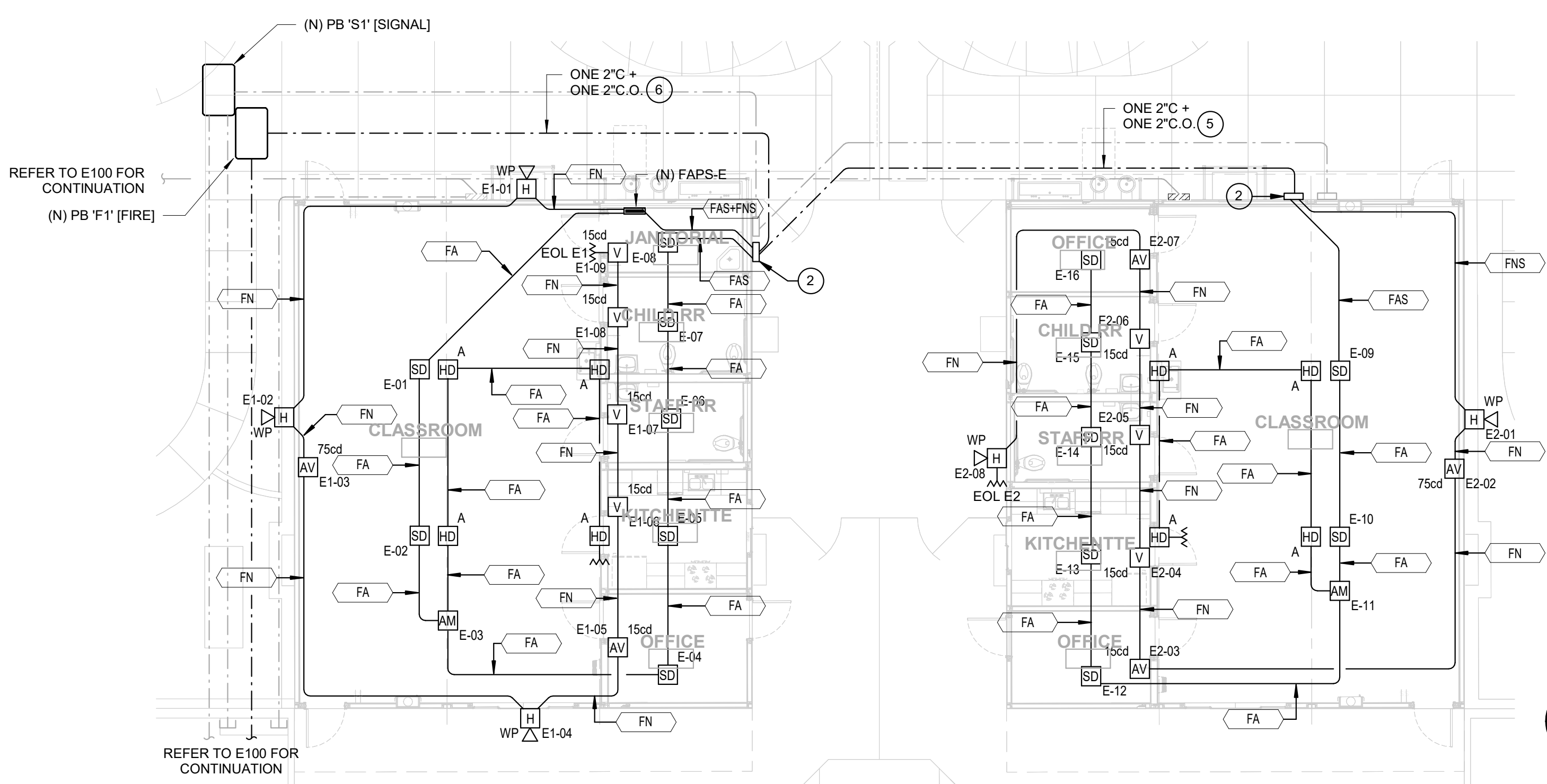


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DRAWING TITLE  
ELECTRICAL SITE PLAN

PROJECT NO.  
22-12075  
DRAWING

**E100**

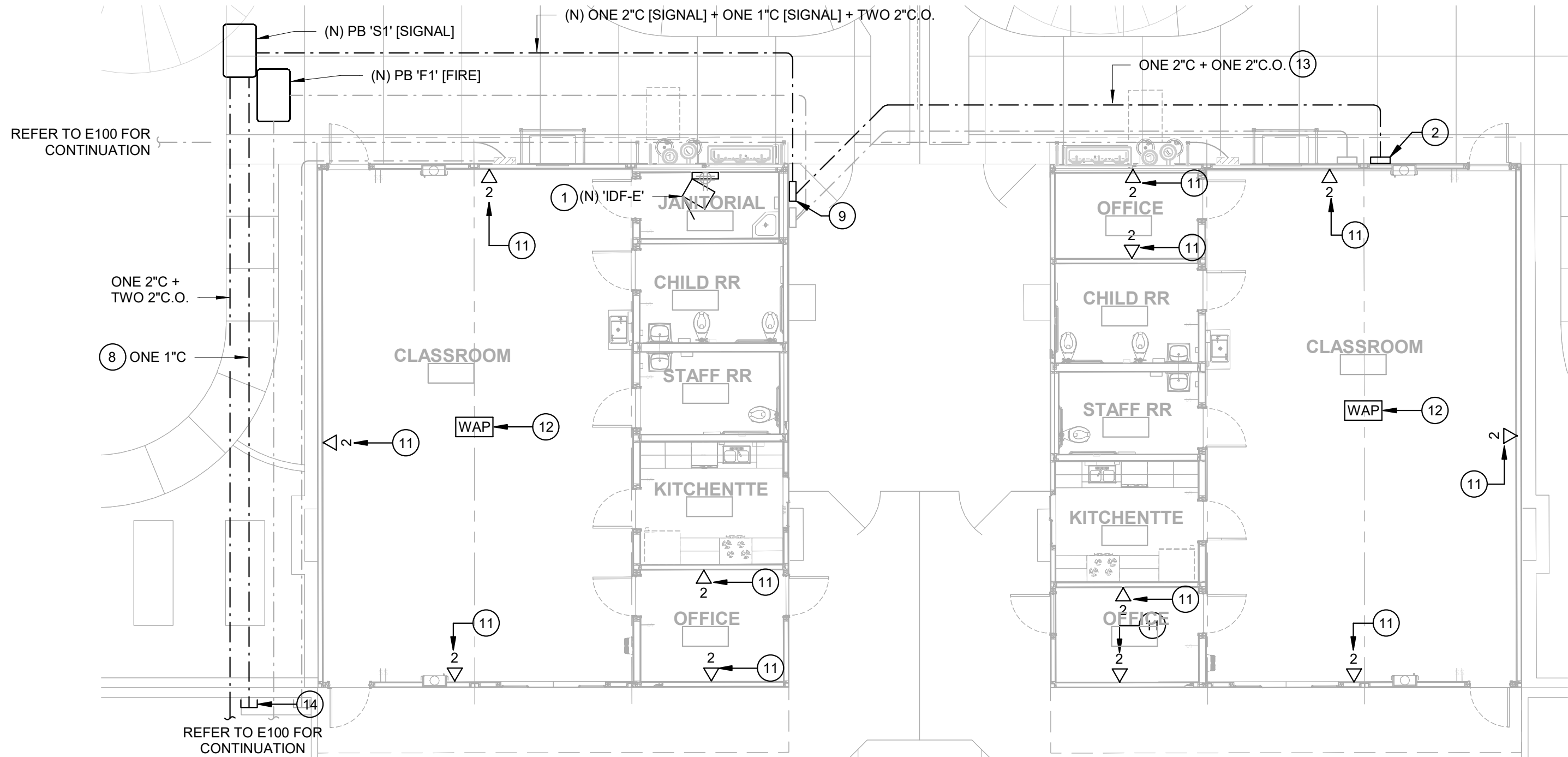




FIRE ALARM PLAN

1/8" = 1'-0"

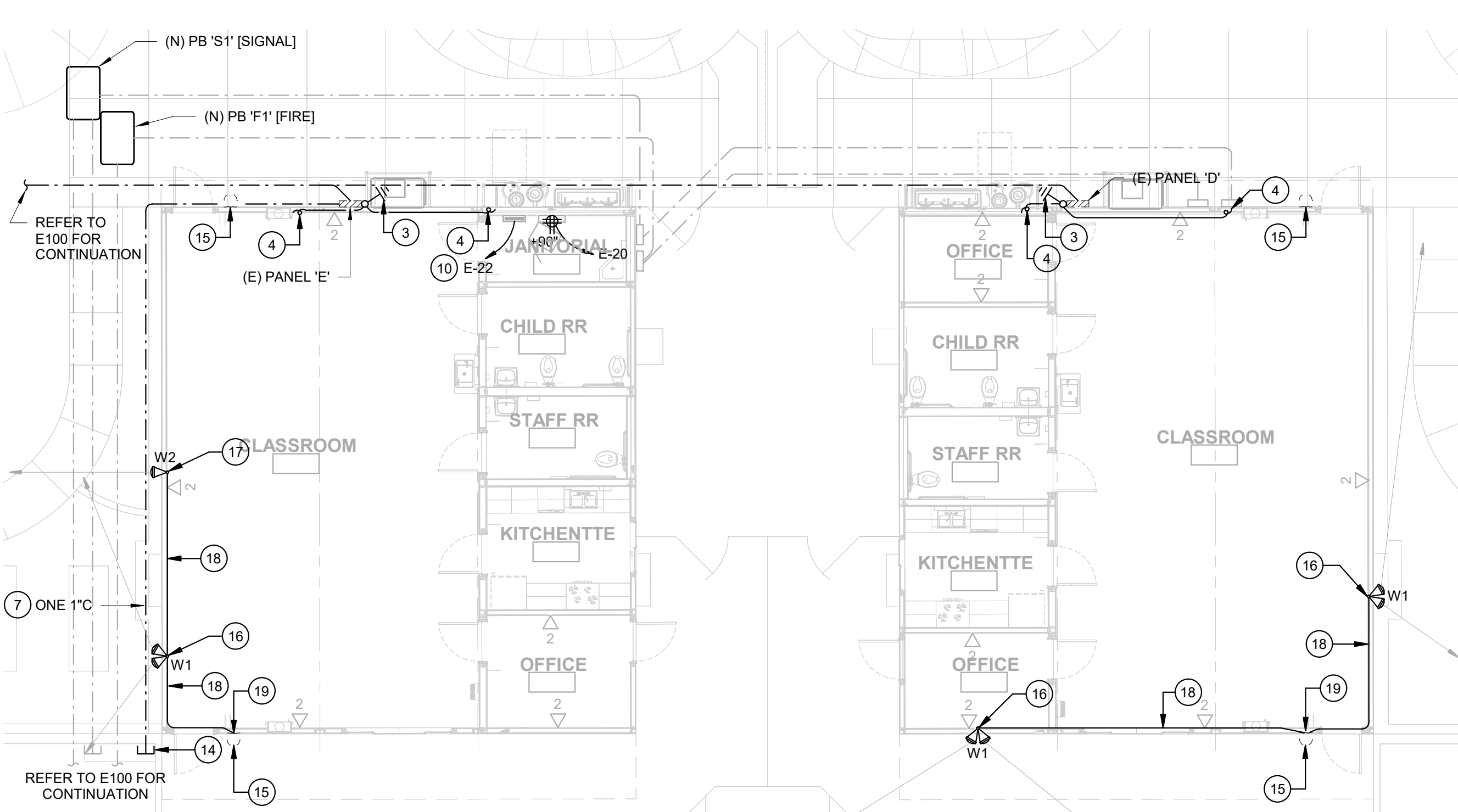
3



SIGNAL PLAN

1/8" = 1'-0"

2



POWER PLAN

1/8" = 1'-0"

1

## KEYNOTES

- REFER TO DETAIL 9/E600 FOR IDF MOUNTING.
- PROVIDE AND INSTALL 18" x 18" x 6" WEATHERPROOF PULLCAN MOUNTED TO BUILDING EXTERIOR. PAINT PULLCAN AND EXPOSED CONDUIT TO MATCH (E) SURROUNDING AREA.
- PROVIDE SYSTEM GROUNDING FACILITIES PER DETAILS 6/E600 AND 7/E600.
- PROVIDE GROUNDING LUGS ON BOTH SIDES OF RIGID METAL BEAMS AND BOND SECTIONS OF RELOCATABLE BUILDING TOGETHER WITH 1#6 CU BONDING JUMPER.
- ONE 2"C WITH ONE TYPE 'FAS' CABLE AND ONE TYPE 'FNS' CABLE.
- ONE 2"C WITH ONE TYPE 'FAS' CABLE.
- PROVIDE ONE 1"C, 2#12 CU THWN AND 1#12 CU GND FOR POWER CONNECTION TO IRRIGATION CONTROLLER.
- PROVIDE ONE 1"C WITH ONE TYPE 'D' CABLE FOR DATA CONNECTION TO IRRIGATION CONTROLLER.
- PROVIDE AND INSTALL 24" x 24" x 6" WEATHERPROOF PULLCAN MOUNTED TO BUILDING EXTERIOR. PAINT PULLCAN AND EXPOSED CONDUIT TO MATCH (E) SURROUNDING AREA.
- PROVIDE 120VAC POWER CONNECTION TO (N) FIRE ALARM POWER SUPPLY PANEL 'FAPS-E'. CIRCUIT BREAKER SHALL BE COLORED RED AND LABELED "FIRE ALARM CIRCUIT".
- PROVIDE 2-PORT DATA OUTLET FLUSH IN WALL. COORDINATE EXACT LOCATION OF NEW DATA OUTLET WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE TWO TYPE 'D' CABLES TERMINATED IN SURFACE MOUNTED TWO PORT KEYSTONE JACK BOX ABOVE CEILING TO ACCOMMODATE INSTALLTION OF WIRELESS ACCESS POINT.
- ONE 2"C WITH FOURTEEN TYPE 'DX' CABLES AND TWO TYPE 'DAX' CABLES.
- PROVIDE POWER AND DATA CONNECTION TO IRRIGATION CONTROLLER.
- (E) WALL MOUNTED LIGHT FIXTURE TO REMAIN.
- PROVIDE (N) FLOOD LIGHTING FIXTURE TO ILLUMINATE PATH TO SAFE DISPERSAL AREA. FLOOD LIGHTING FIXTURE SHALL BE WALL MOUNTED AT +10' AFG. LIGHTING FIXTURE TYPE 'W1' SHALL BE 2-HEAD LED FLOOD LIGHT WITH WALL MOUNT ACCESSORIES AND INTEGRAL PHOTOCCELL, TWO (2) LITHONIA #DSXF1LED-P2-40K-WFR-MVOLT-THK-PE-DBXD OR EQUIVALENT.
- PROVIDE (N) FLOOD LIGHTING FIXTURE TO ILLUMINATE PATH TO SAFE DISPERSAL AREA. FLOOD LIGHTING FIXTURE SHALL BE WALL MOUNTED AT +10' AFG. LIGHTING FIXTURE TYPE 'W2' SHALL BE 1-HEAD LED FLOOD LIGHT WITH WALL MOUNT ACCESSORIES AND INTEGRAL PHOTOCCELL, ONE (1) LITHONIA #DSXF1LED-P2-40K-MFL-MVOLT-THK-PE-DBXD OR EQUIVALENT.
- PROVIDE (N) PORTION OF LIGHTING BRANCH CIRCUIT TO (N) LIGHTING FIXTURE CONSISTING OF ONE 3/4"C, 2#12 CU THWN AND 1 #12 CU GND.
- CONNECT (N) PORTION OF LIGHTING BRANCH CIRCUIT TO EXISTING UNSWITCHED EXTERIOR LIGHTING BRANCH CIRCUIT.

## FIRE ALARM CONDUIT RUN LEGEND

- |           |  |
|-----------|--|
| FAS       | ONE 3/4"C, WITH ONE TYPE 'FAS' CABLE               |
| FA        | ONE 3/4"C, WITH ONE TYPE 'FA' CABLE                |
| FNS       | ONE 3/4"C, WITH ONE TYPE 'FNS' CABLE               |
| FN        | ONE 3/4"C, WITH ONE TYPE 'FN' CABLE                |
| FAS + FNS | ONE 3/4"C, WITH ONE TPYE 'FAS' CABLE + 'FNS' CABLE |

## GENERAL NOTES

- PROVIDE ELECTRICAL FEEDERS PER SINGLE LINE DIAGRAM ON E700.
- EXISTING CIRCUITING IS BASED ON AS BUILT RECORD DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.
- CONDUIT AND CONDUCTORS FOR NEW OUTLETS SHALL BE CONCEALED, U.O.N.
- PENETRATIONS THROUGH WALLS, CEILINGS, FLOORS, AND/OR ROOFS SHALL BE SEALED.
- ALL 120V, 15A AND 20A RECEPTACLES WITHIN KITCHENS AND RESTROOMS SHALL BE GFCI TYPE RECEPTACLES. IN ALL OTHER SPACES, 120V, 15A AND 20A RECEPTACLES WITHIN 6' OF SINKS OR FAUCETS SHALL BE GFCI TYPE RECEPTACLES.
- EACH DATA CABLE SHALL BE HOME RUN FROM OUTLET TO (N) 'IDF-E' IN RELOCATABLE BUILDING 'E'.
- ALL PATCHING REQUIRED DUE TO WORK ON RELOCATABLE BUILDING WALLS, CEILINGS, FLOORS, AND/OR ROOFS SHALL BE COMPLETED AND FINISHED.

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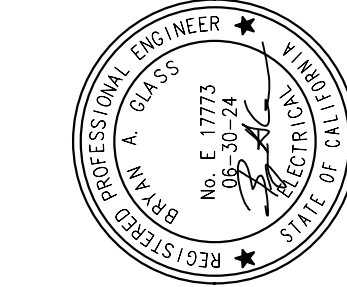
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22-12075

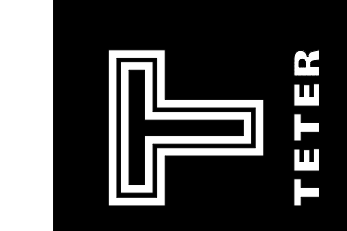
DRAWING

E200

POWER, SIGNAL, AND FIRE ALARM PLAN



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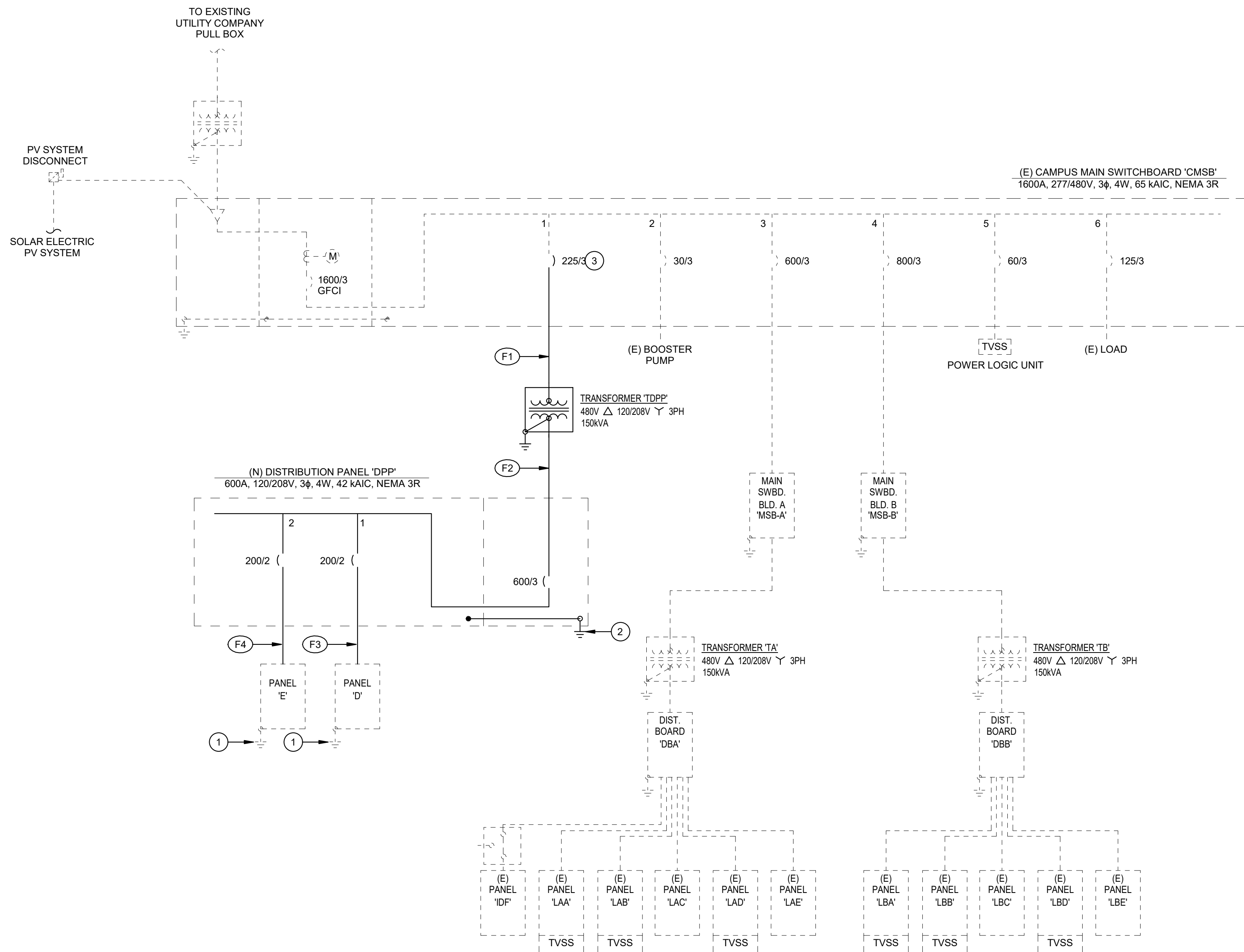


## KEYNOTES

- ① PROVIDE GROUNDING ELECTRODE SYSTEM AT RELOCATABLE BUILDING POWER PANEL PER DETAIL 6/E600.
- ② PROVIDE GROUNDING ELECTRODE SYSTEM AT DISTRIBUTION PANEL 'DPP' PER DETAIL 1/E600.
- ③ PROVIDE ONE (N) 225A, 3-POLE CIRCUIT BREAKER IN (E) MAIN SWITCHBOARD 'CMSB' FOR PROTECTION OF (N) TRANSFORMER 'TDP' AND (N) PANEL 'DPP'. CIRCUIT BREAKER SHALL BE LOCKABLE IN THE OFF POSITION.
- ④ PROVIDE GROUPING ELECTRODE SYSTEM AT TRANSFORMER 'TDP' PER DETAIL 4/E600.

## GENERAL NOTES

- A. CIRCUIT BREAKERS SUPPLYING CLASS 1 TRANSFORMERS SHALL BE LOCKABLE IN THE OFF POSITION.
- B. CIRCUIT BREAKERS THAT ARE 1200A OR LARGER SHALL HAVE AN ARC ENERGY REDUCTION FEATURE TO REDUCE CLEARING TIME. THE ARC ENERGY REDUCTION FEATURE SHALL BE AN ENERGY-REDUCING MAINTENANCE SWITCH WITH A LOCAL STATUS INDICATOR. WHEN THE SWITCH IS TURNED ON IT SHALL REDUCE THE CLEARING TIME AND SETS THE INSTANTANEOUS PICKUP CLEARING TIME TO BE 2 TIMES FASTER THAN THE NORMAL INSTANTANEOUS PICKUP SENSOR AMPERAGE.
- C. ARC-FLASH HAZARD WARNING LABELS SHALL BE PROVIDED AT ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS AND PANELBOARDS IN ACCORDANCE WITH CEC 110.16.
- D. CIRCUIT IDENTIFICATION - A TYPEWRITTEN CIRCUIT DIRECTORY SHALL BE PROVIDED AT EACH PANELBOARD AND SWITCHBOARD IN ACCORDANCE WITH CEC 408.4(A). THE CONTRACTOR SHALL DEVELOP AND PREPARE THE CIRCUIT IDENTIFICATION DESCRIPTION BASED ON THE AS-BUILT CONDITION.
- E. SOURCE OF SUPPLY IDENTIFICATION - ALL SWITCHBOARDS, PANELBOARDS AND TRANSFORMERS SHALL HAVE A TYPEWRITTEN LABEL APPLIED INDICATING THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES PER CEC ARTICLE 408.4(B).

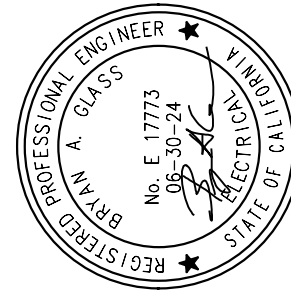


## FEEDER SCHEDULE

FEEDER SCHEDULE						
FEEDER	ORIGIN	DESTINATION	CONDUIT	CONDUCTORS	CALCULATED VOLTAGE DROP	REMARKS
F1	MAIN SWITCHBOARD 'CMSB'	TRANSFORMER 'TOPP'	ONE 3" C	3#4/0 CU THWN, 1#4 CU GND	2.95%	FEEDER
F2	TRANSFORMER 'TOPP'	DISTRIBUTION PANEL 'DPP'	TWO 3" C	4#350 KCMIL CU THWN, 1#3/0 CU GND IN EACH CONDUIT	0.16%	TWO PARALLEL FEEDERS WITH SUPPLY-SIDE BONDING JUMPER
F3	DISTRIBUTION PANEL 'DPP'	PANEL 'D'	ONE 2" C	3#3/0 CU THWN, 1#6 CU GND	2.98%	FEEDER
F4	DISTRIBUTION PANEL 'DPP'	PANEL 'E'	ONE 2" C	3#3/0 CU THWN, 1#6 CU GND	2.20%	FEEDER

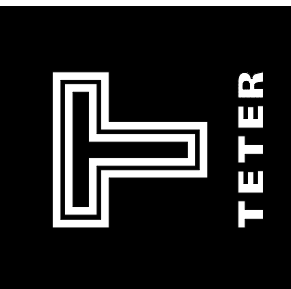
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DRAWING TITLE

## SINGLE LINE DIAGRAM

PROJECT NO.

22-12075

DRAWING

# E700



FIRE ALARM SYSTEM DESCRIPTION	
<p>THE FIRE ALARM SYSTEM DESCRIBED BY THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS IS A MANUAL AND AUTOMATIC SYSTEM. THIS SYSTEM UTILIZES SMOKE DETECTORS ON CEILINGS AND IN THE ROOMS HOUSING THE FIRE ALARM SYSTEM EQUIPMENT WITH HEAT DETECTORS IN ATTIC SPACES. THE SYSTEM IS ADDRESSABLE AND IS WIRED CLASS 'B' WITHIN THE BUILDINGS AND CLASS 'B' BETWEEN BUILDINGS.</p>	
FIRE ALARM APPROVAL	
<p>THE FIRE ALARM SYSTEM DESIGN IS A "COMPLETE PLAN SUBMITTAL" PER DSA FIRE ALARM SUBMITTAL GUIDELINES. THE CONTRACTOR SHALL INSTALL THE SYSTEM AS SHOWN AND AS HEREIN SPECIFIED. IF ANY SUBSTITUTION OF FIRE ALARM EQUIPMENT IS TO BE REQUESTED, SUCH REQUEST SHALL BE MADE A MINIMUM OF TWO WEEKS PRIOR TO PROJECT BID DATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE SUBSTITUTION PER THE DSA GUIDELINES AND SHALL PAY ALL ADDITIONAL COSTS REQUIRED TO ACCOMMODATE REVIEW OF THE SUBSTITUTED FIRE ALARM SYSTEM BY DSA. WHETHER OR NOT SUCH APPROVAL IS GIVEN, THE CONTRACTOR'S SUBMITTAL SHALL INCLUDE MANUFACTURER'S CATALOG CUT SHEETS AND CFSM LISTING SHEETS FOR THE INDIVIDUAL COMPONENTS COMPRISING THE SUBSTITUTED FIRE ALARM SYSTEM, BATTERY LOAD CALCULATIONS AND VOLTAGE DROP CALCULATIONS FOR EACH SIGNALING CIRCUIT.</p>	
APPLICABLE CODES AND STANDARDS	
<p>2019 CA BUILDING CODE - CCR, TITLE 24, PART 2, VOLUMES 1 &amp; 2 (2018 IBC AND CALIFORNIA AMENDMENTS)</p> <p>2019 CA ELECTRICAL CODE - CCR, TITLE 24, PART 3 (2017 NEC AND CALIFORNIA AMENDMENTS)</p> <p>2019 CA MECHANICAL CODE - CCR, TITLE 24, PART 4 (2018 UMC AND CALIFORNIA AMENDMENTS)</p> <p>2019 CA PLUMBING CODE - CCR, TITLE 24, PART 5 (2018 UPC AND CALIFORNIA AMENDMENTS)</p> <p>2019 CA FIRE CODE - CCR, TITLE 24, PART 9 (2018 IFC AND CALIFORNIA AMENDMENTS)</p> <p>2019 CA REFERENCE STANDARDS CODE - CCR, TITLE 24, PART 12</p> <p>2016 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS AND 2019 CALIFORNIA AMENDMENTS</p> <p>2016 NFPA 72, NATIONAL FIRE ALARM CODE, AND 2019 CALIFORNIA AMENDMENTS</p> <p>PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS - CCR, TITLE 19</p> <p>DSA GUIDELINES FOR FIRE AND LIFE SAFETY SYSTEMS, DIVISION OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES.</p>	
FIRE ALARM GENERAL NOTES	
<ol style="list-style-type: none"> <li>UNDERGROUND AND EXTERIOR CONDUITS WILL HAVE WATERTIGHT FITTINGS. (CEC 110.11 AND CEC 305.6)</li> <li>OUTLETS ON OPPOSITE SIDES OF A FIRE RATED WALL SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL SPACING OF TWO FEET.</li> <li>FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL BE AS FOLLOWS: <ol style="list-style-type: none"> <li>PULL STATION - OPERABLE PART OF A MANUALLY ACTUATED ALARM INITIATING DEVICE SHALL BE NOT LESS THAN 42" FROM FINISHED FLOOR, AND TOP OF BOX SHALL NOT BE MORE THAN 48" FROM FINISHED FLOOR. (CBC 119.308.1.1, NFPA 72 17.4.5)</li> <li>INTERIOR AUDIBLE NOTIFICATION APPLIANCE - AT LEAST 90° TO THE TOP OF DEVICE ABOVE FINISHED FLOOR AND NOT LESS THAN 6' BELOW FINISHED CEILING. (NFPA 72 18.4.8.1)</li> <li>WALL-MOUNTED STROBE OR SPEAKER/STROBE - AT LEAST 80° TO BOTTOM OF LENS AND NOT GREATER THAN 96° TO TOP OF LENS ABOVE FINISHED FLOOR. (NFPA 72 18.5.5.1)</li> </ol> </li> <li>AUDIBLE SIGNAL DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF AT LEAST 15 dbA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 dbA AT TEN FEET, OR MORE THAN 110 dbA IN TOTAL. (NFPA 72 18.4.3.1, 18.4.1.2 AND CFC 907.5.2.1.2)</li> <li>AMBIENT NOISE LEVELS SHALL BE CONSTRUED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATIVE OR WORKING CONDITIONS. (CFC 907.5.2.1.1)</li> <li>AUDIBLE DEVICES SHALL SOUND THE CA UNIFORM FIRE ALARM SIGNAL IN TEMPORAL MODE. PROVIDE AT LEAST ONE EXTERIOR AUDIBLE DEVICE ON BUILDING FOR E OCCUPANCIES. (CFC 907.5.2.1.3)</li> <li>EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM SHALL COMPLY WITH CBC 907.2.3 AND NFPA 72 24.4.2</li> <li>VISUAL DEVICES SHALL NOT EXCEED TWO FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN ONE FLASH EVERY SECOND. (NFPA 72 18.5.3.1)</li> <li>AUTOMATIC SMOKE DETECTION SHALL BE PROVIDED AT THE LOCATION OF EACH FIRE ALARM CONTROL UNIT. NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDER AND SUPERVISING STATION TRANSMITTING EQUIPMENT TO PROVIDE NOTIFICATION OF FIRE AT THAT LOCATION. (NFPA 72 10.4.4)</li> <li>BRANCH CIRCUITS PROTECTING FIRE ALARM EQUIPMENT SHALL BE LABELED PER NFPA 72 10.6.5.2.2 AND SHALL INCLUDE A LISTED CIRCUIT BREAKER LOCKING DEVICE PER NFPA 72 10.6.5.4</li> <li>COMPLETE THE NFPA 72 RECORD OF COMPLETION, TESTING ALL DEVICES AND APPLIANCES. PROVIDE A COPY OF THE COMPLETED RECORD OF COMPLETION TO THE OWNER (SCHOOL DISTRICT), ARCHITECT, LOCAL FIRE AUTHORITY, AND DSA VIA THE PROJECT INSPECTOR. TESTING OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE LOCAL FIRE AUTHORITY AND THE DSA INSPECTOR OF RECORD (IOR). FINAL TEST SHALL INCLUDE READ OUT VERIFICATION FORM FROM CENTER STATION.</li> <li>THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS (CFC 907.8.5, NFPA 72 14.4.1.1, NFPA 72 14.5)</li> </ol>	

# FIRE ALARM CODES AND NOTES

6

FINISH CEILING

AUDIBLE DEVICE

VISUAL DEVICE

MANUAL PULL STATION

THE TOP OF A WALL-MOUNTED AUDIBLE DEVICE SHALL BE AT LEAST 6" BELOW FINISH CEILING AND, WHERE CEILING HEIGHT IS AT LEAST 8'-0", AT LEAST 90" A.F.F.

THE BOTTOM OF A WALL-MOUNTED AUDIOVISUAL AND VISUAL DEVICES SHALL BE AT LEAST 80" A.F.F. TO BOTTOM OF LENS AND NO MORE THAN 96" A.F.F. TO TOP OF LENS OR 6" BELOW CEILING - WHICHEVER IS LESS.

FINISH FLOOR

96" MAX TO TOP OF LENS

80" MIN. TO BOTTOM OF LENS

90" MIN.










48" TO TOP OF BOX

FIRE ALARM

PULL DOWN

N.T.S.

7

FIRE ALARM SYSTEM EQUIPMENT LEGEND	
SYMBOL	DESCRIPTION
	(E) FIRE ALARM CONTROL PANEL 'FACP': SIEMENS #MXL-IQ C.S.F.M. #7165-0067-0144
	(E) FIRE ALARM ANNUNCIATOR: SIEMENS #RCC-2 C.S.F.M. #7165-0067-0152
	(N) FIRE ALARM PANEL POWER SUPPLY 'FAPS': SIEMENS #PAD-3 C.S.F.M. #7169-0067-0218
	ADDRESSABLE SMOKE DETECTOR (ON CEILING): SIEMENS #FP-11 C.S.F.M. #7272-0067-0203 BASE: #DB-11 C.S.F.M. #7300-0067-0134
	ADDRESSABLE INTERFACE MODULE: SIEMENS #TRI-68M C.S.F.M. #7300-0067-0146
	CONVENTIONAL HEAT DETECTOR WITH FIXED TEMPERATURE 194°F SYSTEM SENSOR #5604 C.S.F.M. #7270-1653-0167
	STROBE ANNUNCIATOR - WALL MOUNTED (XX REPRESENTS CANDELA) - COOPER WHEELLOCK #RSS-24MCW C.S.F.M. #7125-0785-0141
	HORN/STROBE ANNUNCIATOR - WALL MOUNTED (XX REPRESENTS CANDELA) - COOPER WHEELLOCK #RS-24MCW C.S.F.M. #7125-0785-0142
	HORN, OUTDOOR COOPER WHEELLOCK #AH24-WP-R C.S.F.M. #7320-0785-0131

<p style="text-align: center;"><b>FIRE ALARM MONITORING NOTE</b></p> <p>AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC CHAPTER 80. 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. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.</p>
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# FIRE ALARM LEGEND

SB575 - GREEN OAKS FAMILY ACADEMY ELEMENTARY SCHOOL FIRE PROTECTION ACT REQUIREMENTS FOR AUTOMATIC FIRE ALARM SYSTEMS

THE FIRE DETECTION AND ALARM SYSTEM FOR THE AREAS AND/OR BUILDINGS WITHIN THE SCOPE OF WORK OF THIS PROJECT:

☒ COMPLIES WITH SB575

☒ A FULLY-AUTOMATIC SYSTEM HAS BEEN DESIGNED FOR ALL AREAS, OR

☐ THE AREAS AND/OR BUILDINGS ARE SPRINKLERED ABOVE THE CEILING, SO HEAT DETECTORS ARE EXEMPTED FROM ABOVE-CEILING AREAS. THE SYSTEM IS OTHERWISE FULLY AUTOMATIC.

☒ AN AUTOMATIC DIALER TO A UL-APPROVED CENTRAL STATION:

☒ IS EXISTING, OR

☐ IS INCLUDED AS PART OF THIS PROJECT.

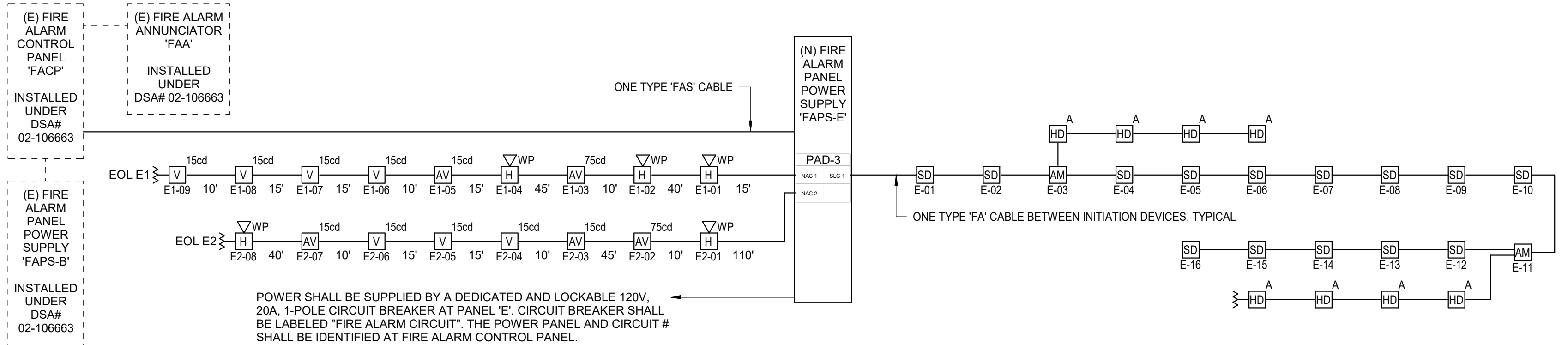
☐ IS EXEMPT FROM SB575

☐ THE TOTAL PROJECT CONSTRUCTION VALUE IS LESS THAN \$200,000, OR

☐ THE PROJECT CONSISTS OF ONLY MODULAR BUILDINGS WHICH ARE TEMPORARY; THESE BUILDINGS SHALL BE REMOVED NO MORE THAN THREE YEARS FROM THE INSTALLATION DATE UNLESS A THREE-YEAR EXTENSION IS APPROVED BY DSA, OR

☐ THE PROJECT IS NOT FUNDED UNDER CHAPTER 12.5 OF THE LEROY F. GREENE SCHOOL FACILITIES ACT. IT WILL BE 100% FUNDED BY LOCAL FUNDS.

FIRE ALARM SYSTEM		
DEVICE	ACTIVATE EVACUATION SIGNALS/STROBES	SHUTDOWN FIRE/S DAMPER, OR ACT SMOKE VENT REL
FIRE ALARM PANEL SYSTEM TROUBLE		
SMOKE DETECTOR	X	X
HEAT DETECTOR	X	



# FIRE ALARM RISER DIAGRAM

NAC 'E1' VOLTAGE DROP CALCULATION				
QTY.	DEVICE	DESCRIPTION	ALARM CURRENT/ DEVICE	TOTAL ALARM CURRENT
1	HS15	Wheelock Horn/Strobe 15cd #NS-24MCW-FR	0.0740	0.0740
1	HS75	Wheelock Horn/Strobe 75cd #NS-24MCW-FR	0.1840	0.1840
4	RSS-24MCW-15	Wheelock VISUAL STROBE WALL MOUNTED 15cd #AS-24MCW-FR	0.0600	0.2400
3	AH	Wheelock Horn #AH-24WP-R (Exterior)	0.0620	0.1860
TOTAL CURRENT ADDED TO CIRCUIT			0.380	0.684
LENGTH OF WIRE FROM FACT TO LAST DEVICE (IN FEET) = 175				
ACTUAL SIZE OF WIRE INSTALLED = 12 AWG 6530 CIRCULAR MILS				
CALCULATED VOLTAGE DROP (IN VDC) =				0.396
CIRCUIT VOLTAGE CALCULATED AT LAST DEVICE (IN VDC) =				23.6 VDC
PERCENT VOLTAGE DROP (%) = 1.65 %				
VOLTAGE DROP FORMULA: VOLTAGE DROP = 2 X 10.8 x LENGTH OF CIRCUIT TO FARTHEST DEVICE x CURRENT WIRE SIZE IN C.M.				
COMPUTED WITH TOTAL CURRENT ON CIRCUIT AT MAXIMUM LENGTH [CLASS A CIRCUIT].				

FIRE ALARM POWER SUPPLY 'FASP-E' BATTERY CALCULATIONS						
QTY.	DEVICE	DESCRIPTION	STANDBY CURRENT	ALARM CURRENT/ DEVICE	ALARM CURRENT	
1	PAD-3	Siemens Fire Alarm Power Supply #PAD-3	0.0750	0.0750	0.0750	
2	TRI-B6M	Siemens Addressable Monitor Module #TRI-B6M	0.0006	0.0050	0.0100	
14	FP-11	Siemens Addressable Smoke Detector (Ceiling) #FP-11	0.0042	0.0650	0.9100	
8	5604	System Sensor Heat Detector #5604	0.0000	0.0000	0.0000	
7	RSS-24MCW-15	Wheelock VISUAL STROBE WALL MOUNTED 15cd #AS-24MCW-FR	0.0000	0.0600	0.4200	
3	HS15	Wheelock Horn/Strobe 15cd #NS-24MCW-FR	0.0000	0.0740	0.2220	
2	HS75	Wheelock Horn/Strobe 75cd #NS-24MCW-FR	0.0000	0.1840	0.3680	
5	AH	Wheelock Horn #AH-24WP-R [Exterior]	0.0000	0.0620	0.3100	
TOTALS			0.0798	0.3560	2.3150	
TOTAL ALARM AMP-HOURS (15 MIN.) =			0.25	HR	x 2.315	A = 0.5788 A-H
TOTAL STANDBY AMP-HOURS (24 HRS) =			24	HR	x 0.080	A = 1.9152 A-H
TOTAL REQUIRED AMP-HOURS =						A = 2.4940 A-H
TOTAL DESIGN AMP-HOURS WITH 20% SAFETY FACTOR =						A = 2.9927 A-H
BATTERY CAPACITY REQUIREMENTS						18,000 A-H

OPERATIONAL MATRIX

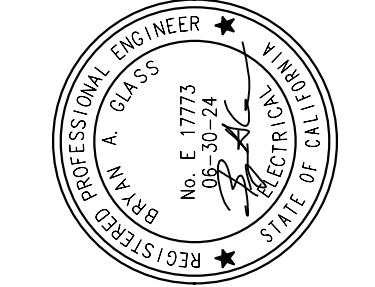
SHUTDOWN HVAC EQUIPMENT	ANNUNCIATE AT BUILDING FACP AND ALL REMOTE ANNUNCIATORS	SEND SIGNAL TO CENTRAL STATION
	✕	✕
	✕	✕
	✕	✕

(E) FIRE ALARM CONTROL PANEL 'FACP' BATTERY CALCULATIONS									
QTY.	DEVICE	DESCRIPTION	STANDBY CURRENT	ALARM CURRENT/ DEVICE	ALARM CURRENT				
1	MXL-IQ	Siemens Fire Alarm Control Panel #MXL-IQ	0.4000	0.9220	0.9220				
1	RCC-2	Siemens Fire Alarm Annunciator #RCC-2	0.0500	0.0750	0.0750				
1	PAD-3	Siemens Fire Alarm Power Supply #PAD-3	0.0750	0.0750	0.0750				
37	MSI-10B	Siemens Addressable Manual Pullstation #TRI-B6M	0.0111	0.0050	0.1850				
17	FP-11	Siemens Addressable Smoke Detector (Ceiling) #FP-11	0.0051	0.0650	1.1050				
8	5604	System Sensor Heat Detector #5604	0.0000	0.0000	0.0000				
11	AD-11XPR	Siemens Duct Smoke Detector #AD-11XPR	0.0033	0.0650	0.7150				
16	TRI-B6M	Siemens Addressable Monitor Module #TRI-B6M	0.0048	0.0050	0.0800				
15	RSS-24MCW-15	Wheelock VISUAL STROBE WALL MOUNTED 15cd #AS-24MCW-FR	0.0000	0.0600	0.9000				
4	RSS-24MCW-75	Wheelock VISUAL STROBE WALL MOUNTED 75cd #AS-24MCW-FR	0.0000	0.1650	0.6600				
8	HS15	Wheelock Horn/Strobe 15cd #NS-24MCW-FR	0.0000	0.0740	0.5920				
10	HS75	Wheelock Horn/Strobe 75cd #NS-24MCW-FR	0.0000	0.1840	1.8400				
1	HS110	Wheelock Horn/Strobe 110cd #NS-24MCW-FR	0.0000	0.2440	0.2440				
9	AH	Wheelock Horn #AH-24WP-R (Exterior)	0.0000	0.0620	0.5580				
TOTALS			0.5493	2.0010	7.9510				
TOTAL ALARM AMP-HOURS [15 MIN.] =			0.25	HR	x 7.951	A	=	1.9878 A-H	
TOTAL STANDBY AMP-HOURS (24 HRS) =			24	HR	x 0.549	A	=	13.1832 A-H	
TOTAL REQUIRED AMP-HOURS =			= 15.1710 A-H						
TOTAL DESIGN AMP-HOURS WITH 20% SAFETY FACTOR =			= 18.2051 A-H						
(E) BATTERY CAPACITY			35.000 A-H						

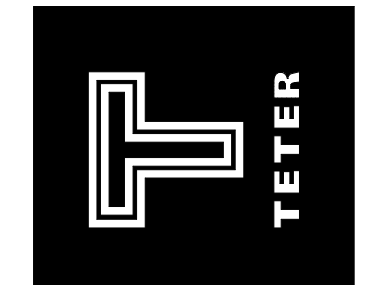
4	BATTERY AND VOLTAGE DROP CALCULATIONS
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**BID DOCUMENTS ONLY  
DSA APPROVED  
DOCUMENTS  
REQUIRED PRIOR TO  
CONSTRUCTION**

MARK	DATE	DESCRIPTION
	12/02/2022	DSA BACK/CHECK



**TETER, LLP**  
FRESNO HEADQUARTERS  
VISALIA | BAKERSFIELD | MODESTO | SAN LUIS OBISPO  
**ARCHITECTS ENGINEERS CONNECTED**



LOS BANOS  
CHILD DEVELOP. CENTER  
MERCED COLLEGE | MCCCD  
22240 CA-152 LOS BANOS, CA.  
DRAWING TITLE  
FIRE ALARM RISER DIAGRAM & CALCULATIONS

PROJECT NO.  
22-12075  
DRAWING

E710



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PLOT DATE: 1/9/2023 4:36:57 PM

CODES, RULES & REGULATIONS
ALL WORK SHOWN HEREIN SHALL COMPLY WITH THE CURRENT REGULATIONS OF THE CALIFORNIA STATE FIRE MARSHAL, CALIFORNIA BUILDING CODE, TITLES 8 AND 19 THROUGH 24, SERVING UTILITY RULES AND ALL OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE INTERPRETED AS TO PERMIT ANY WORK NOT IN CONFORMANCE WITH THESE CODES, RULES AND REGULATIONS. WHERE WORK OF A GREATER DEGREE IS INDICATED IN THESE PLANS OR SPECIFICATIONS, THAT REQUIREMENT SHALL GOVERN SUCH WORK.

C.E.C. TITLE 24 COMPLIANCE
THE LIGHTING AND LIGHTING CONTROL SYSTEMS DESIGN DEPICTED HEREIN IS IN COMPLIANCE WITH REQUIREMENTS OF THE CURRENT CALIFORNIA ENERGY COMMISSION EFFICIENCY STANDARDS FOR NONRESIDENTIAL BUILDINGS.

GENERAL NOTES (TYPICAL)
1. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL CEILING MOUNTED ELECTRICAL EQUIPMENT.
2. REFER TO THE MECHANICAL AND PLUMBING PLANS FOR THE EXACT LOCATION OF ALL MECHANICAL, HVAC AND PLUMBING EQUIPMENT.
3. VERIFY THE EXACT LOCATION OF ALL FLOOR BOXES AND ASSOCIATED TRENCH, BACKFILL AND SAWCUTTING REQUIREMENTS WITH THE ARCHITECT PRIOR TO COMMENCEMENT OF ANY ROUGH-IN WORK FOR THIS EQUIPMENT.
4. COORDINATE ELECTRICAL PANEL AND TERMINAL CABINET LOCATIONS AND ROUTING OF UNDERGROUND CONDUITS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO COMMENCEMENT OF ANY ROUGH-IN WORK FOR THIS EQUIPMENT.
5. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES WHOSE WORK WILL IMPACT PLACEMENT OR CONNECTION OF ELECTRICALLY POWERED EQUIPMENT REGARDLESS OF RESPONSIBILITY FOR SUPPLYING EQUIPMENT.

MEP COMPONENT ANCHORAGE NOTE
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.
1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER, "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.
THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:
A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.
ELECTRICAL DISTRIBUTION SYSTEMS:
SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #OPM-0052-13, "SEISMIC BRACING AND SUPPORT SYSTEMS"

GENERAL NOTES	4
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FIRE ALARM CABLE SCHEDULE					
CABLE DESIGNATION	DESCRIPTION	MANUFACTURER & CATALOG #	OUTER JACKET COLOR	SYSTEM	USE
'FA'	1 PR, #16 AWG SOLID UNSHIELDED FPL	WEST PENN #D990	RED	FIRE ALARM	ADDRESSABLE SLC LOOP CABLE - INTERIOR
'FAS'	1 PR, #16 AWG STRANDED UNSHIELDED AQUASEAL FPL	WEST PENN #AQC225	BLACK	FIRE ALARM	SITE ADDRESSABLE SLC LOOP CABLE - EXTERIOR/OUTDOOR
'FN'	1 PR, #12 SOLID UNSHIELDED FPLP	WEST PENN #60995B	RED	FIRE ALARM	VISUAL (STROBE) NOTIFICATION APPLIANCE CIRCUIT - INTERIOR
'FNS'	1 PR, #12 STRANDED UNSHIELDED FPL	WEST PENN #A0227	BLACK	FIRE ALARM	VISUAL (STROBE) NOTIFICATION APPLIANCE CIRCUIT - EXTERIOR/OUTDOOR

TELECOMMUNICATION CABLE SCHEDULE					
CABLE DESIGNATION	DESCRIPTION	MANUFACTURER & CATALOG #	OUTER JACKET COLOR	SYSTEM	USE
'D'	4 UTP #23 AWG CATEGORY 6A CMP PLENUM RATED	BERK-TEK LANMARK-6	BLUE	DATA	HORIZONTAL CAT 6 DATA CABLE - INTERIOR
'DX'	4 UTP #23 AWG CATEGORY 6 FILLED OUTDOOR	BERK-TEK LANMARK-6 OSP	BLACK	DATA	HORIZONTAL CAT 6 DATA CABLE - OUTDOOR
'DA'	4 UTP #23 AWG CATEGORY 6A CMP PLENUM RATED RISER UTP	BERK-TEK LANMARK-10G2	BLUE	DATA	HORIZONTAL CAT 6 DATA CABLE - INTERIOR
'DAX'	4 UTP #23 AWG CATEGORY 6A FILLED OUTDOOR CAT 6A OSP	BERK-TEK LANMARK-10G CAT 6A OSP	BLACK	DATA	HORIZONTAL CAT 6 DATA CABLE - OUTDOOR
'FO'	6-STRAND SINGLE-MODE FIBER OPTIC CABLE	BERK-TEK LTAD12B006-1 A1J-M2	BLACK	DATA	SITE OPTICAL FIBER DATA NETWORK

CABLE SCHEDULES	5
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TRANSFORMER SCHEDULE									
TRANSFORMER DESIGNATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	KVA RATING	SUPPLY-SIDE & SYSTEM BONDING JUMPER SIZES	ENCLOSURE	DIMENSIONS			REMARKS
						HEIGHT	WIDTH	DEPTH	
TDPP	480V DELTA	120/208V Y 3Ø	150	#3/0 CU	NEMA 3R	49.08"	33.65"	28.45"	1,192 LBS. (1) (2) (3)
TRANSFORMER SCHEDULE NOTES:									
(1) TRANSFORMER SHALL BE COMPLIANT WITH DOE 2016 ENERGY EFFICIENCY STANDARD.									
(2) TRANSFORMER GROUND PER DETAIL 4/E600.									
(3) MOUNT TRANSFORMER PER 12/E600.									

TRANSFORMER SCHEDULE	2
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PANEL: CMSB

BUS: 1600 AMP BUS

EXISTING VOLTAGE: 277/480V, 3 PH, 4 W

CAMPUS MAIN SWITCHBOARD NEUTRAL: 100% RATED NEUTRAL

MAIN: 1600A CB

TRIP: -

A.I.C.: 65000

LOCATION: OUTSIDE

MOUNTING: FLOOR

ENCLOSURE: NEMA 3R

CIRCUIT		BREAKER		SERVES	VOLT-AMPERES			
CKT NO.	PNL SPACE	AMP	POLE		LOAD	A	B	C
1	1	225	3	(N) TRANSFORMER 'TDPP' PANEL 'DPP'	46553	46553		
					23308		23308	
					23470			23470
					3878	3878		
2	2	30	3	BOOSTER PUMP	3878		3878	
					3878			3878
					135529	135529		
					135529			135529
3	3	600	3	MAIN SWITCHBOARD BUILDING 'A' 'MSB-A'	165778	165778		
					165778		165778	
					0	0		
					0		0	
4	4	800	3	MAIN SWITCHBOARD BUILDING 'B' 'MSB-B'	27700	27700		
					27700		27700	
					0	0		
					0		0	
5	5	60	3	POWER LOGIC UNIT	0	0		
					0		0	
					0			0
					0			0
6	6	125	3	(E) LOAD	27700	27700		
					27700		27700	
					0	0		
					0		0	
7	7	3			0	0		
					0		0	
					0			0
					0			0
8	8	3			0	0		
					0		0	
					0			0
					0			0
TOTAL CONNECTED LOAD (VA) :					379437	356192	356355	
25% ICL/LML (VA) :					0	0	0	0
TOTAL CALCULATED LOAD (VA) :					379437	356192	356355	
TOTAL CALCULATED LOAD (AMPS) :					1369.8	1285.9	1286.5	

PANEL: 'DPP'				400 AMP BUS				MAIN: 600A CB				LOCATION: OUTSIDE										
NEW PANELBOARD				120/208V, 3 PH, 4 W 100% RATED NEUTRAL				TRIP: THERMAL-MAGNETIC A.I.C.: 42000 A				MOUNTING: ENCLOSURE: POST STRUT PER 12/E600 NEMA 3R										
CIRCUIT NO.		BREAKER		SERVES				VOLT-AMPERES				SERVES				BREAKER		CIRCUIT				
		AMP	POLE					LOAD	A	B	C	LOAD			AMP	POLE	PNL SPACE	CIRCUIT NO.				
1	1	200	2	PANEL 'D'				23245	23245			0	FUTURE EV CHARGERS		40	2	2	2				
3	3								23308					4			4					
5	5	200	2		PANEL 'E'				23470			23470		0			FUTURE EV CHARGERS		40	2	6	6
7	7									23308	23308							0			8	8
9	9	20	1	SPACE					0		0		0 SPARE		20	1		10			10	
11	11	20	1	SPACE					0		0		0 SPARE		20	1		12			12	
13	13	20	1	SPACE			0	0				0 SPARE		20	1	14	14					
15	15	20	1	SPACE				0		0		0 SPARE		20	1	16	16					
17	17	20	1	SPACE				0			0	0 SPARE		20	1	18	18					
19	19	20	1	SPACE				0	0			0 SPARE		20	1	20	20					
21	21	20	1	SPACE				0		0		0 SPARE		20	1	22	22					
23	23	20	1	SPACE				0			0	0 SPARE		20	1	24	24					
TOTAL CONNECTED LOAD (VA) :									46553		23308		23470									
25% ICL/LML (VA) :									0		0		0									
TOTAL CALCULATED LOAD (VA) :									46553		23308		23470		TOTAL CALCULATED LOAD FOR PANEL:							
TOTAL CALCULATED LOAD (AMPS) :									387.9		194.2		195.6		93330 VA							

PANEL SCHEDULE	3
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ELECTRICAL SYMBOL LEGEND			
DIMENSIONS INDICATED ARE MEASURED TO CENTERLINE OF ENCLOSURE, UNLESS OTHERWISE NOTED NOTE: SOME SYMBOLS SHOWN MAY NOT APPLY TO THIS PROJECT			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
E.P.	DENOTES EXPLOSION PROOF CONSTRUCTION	⚡ 3	SINGLE POLE AC SNAP SWITCH @ +48" TO TOP OF BOX U.O.N.
D.T.	DENOTES DUST TIGHT CONSTRUCTION	⚡ 2	TWO POLE AC SNAP SWITCH @ +48" TO TOP OF BOX U.O.N.
O.C.	DENOTES SPACING DIMENSION ON CENTER LINE OF DEVICE	⚡ 3	THREE WAY AC SNAP SWITCH @ +48" TO TOP OF BOX U.O.N.
R.T.	DENOTES RAIN TIGHT CONSTRUCTION	⚡ 4	FOUR WAY AC SNAP SWITCH @ +48" TO TOP OF BOX U.O.N.
U.G.	DENOTES UNDERGROUND INSTALLATION	⚡ M	HORSEPOWER RATED AC SNAP SWITCH @ +48" TO TOP OF BOX U.O.N.
V.P.	DENOTES VAPOR TIGHT CONSTRUCTION	⚡ P	SINGLE POLE AC SNAP SWITCH WITH PILOT LAMP @ +48" TO TOP OF BOX U.O.N.
W.P.	DENOTES WEATHERPROOF CONSTRUCTION	⚡ T	DIGITAL TIMER SWITCH, FLUSH MOUNTED @ +48" TO TOP OF BOX U.O.N.
W.T.	DENOTES WATER TIGHT CONSTRUCTION	⚡ A	SINGLE POLE AC SNAP SWITCH @ +48" TO TOP OF BOX U.O.N.
A.F.F.	DENOTES ABOVE FINISHED FLOOR	⚡ K	KEY OPERATED AC SNAP SWITCH @ +48" TO TOP OF BOX U.O.N.
A.F.G.	DENOTES ABOVE FINISHED GRADE	⚡ CS	SYSTEM CONTROL SWITCH PER PLANS, @ 48" TO TOP OF BOX U.O.N.
F.B.O.	DENOTES FURNISHED BY OTHERS	⚡ I	WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR @ +48" TO TOP OF BOX U.O.N.
U.O.N.	DENOTES UNLESS OTHERWISE NOTED	⚡ M	OCCUPANCY SENSOR - CEILING MOUNTED
(E)	DENOTES EXISTING TO REMAIN, NO WORK U.O.N.	⚡ W	OCCUPANCY SENSOR - WALL MOUNTED @ +90" TO TOP OF BOX U.O.N.
(N)	DENOTES NEW	⚡ P	LIGHTING CONTROL SYSTEM DIMMING/POWER PACK MOUNTED IN ATTIC
Ⓢ	ELECTRICAL KEYNOTES: DENOTES KEYNOTE #1 OF NOTES ON SAME SHEET	⚡ RP	LIGHTING CONTROL SYSTEM PLUG LOAD RELAY PACK MOUNTED IN ATTIC
A-3	CIRCUIT HOME RUN: DENOTES PANEL A, CKT. #3, -34°C. MINIMUM, U.O.N.	⚡ C1	LIGHTING CONTROL SYSTEM 2-BUTTON DIMMING WALL SWITCH @ +48" TO TOP OF BOX U.O.N.
F1	CIRCUIT FEEDER: DENOTES FEEDER 'F1' PER SYSTEM FEEDER SCHEDULE	⚡ C4	LIGHTING CONTROL SYSTEM 4-BUTTON DIMMING WALL SWITCH @ +48" TO TOP OF BOX U.O.N.
---	CONDUIT IN ATTIC/WALL: DENOTES 3/4" 2#12 AWG CU THWN, 1#12 CU GND, U.O.N.	⚡ C1 L	LIGHTING CONTROL SYSTEM DIMMING WALL SWITCH WITH LOOKING COVER @ +48" TO TOP OF BOX U.O.N.
---	CONDUIT IN FLOOR/U.G.: DENOTES 3/4" 2#12 AWG CU THWN, 1#12 CU GND, U.O.N.	⚡ DS	LIGHTING CONTROL SYSTEM DAYLIGHT SENSOR - CEILING MOUNTED
---	DENOTES EXISTING CONDUIT RUN TO REMAIN	⚡ NB	LIGHTING CONTROL SYSTEM NETWORK BRIDGE
---	CONDUIT RUN - STUBBED, CAPPED AND LABELED.	⚡ CO	LIGHTING CONTROL SYSTEM NETWORK GATEWAY
---	CONDUIT RUN: DENOTES 3/4" - 3 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.	⚡ AD	LIGHTING CONTROL SYSTEM AUTOMATED DEMAND RESPONSE MODULE
---	CONDUIT RUN: DENOTES 3/4" - 4 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.	⚡ TC	LIGHTING CONTROL SYSTEM TIME CLOCK
---	CONDUIT RUN: DENOTES 3/4" - 5 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.	⚡ PC	PHOTOCELL CONTROL MOUNTED ON ROOF
---	CONDUIT RUN: DENOTES 1" - 6 #12 AWG CU THWN + 1 #12 CU GND, U.O.N.		
Ⓢ	SEPARATE POWER AND DATA FLOOR BOXES	(2)	LOW VOLTAGE CONTROL TRANSFORMER
Ⓢ	FLUSH FLOOR BOX WITH DEVICE(S) INSTALLED PER PLANS, U.O.N.	(2)	
Ⓢ	TAMPER-RESISTANT SINGLE RECEPTACLE IN WALL @ +18", U.O.N.	Ⓢ	ELECTRICAL PANELBOARD PER PLANS, FLUSH MOUNTED IN WALL (4)
Ⓢ	TAMPER-RESISTANT DUPLEX RECEPTACLE IN WALL @ +18", U.O.N.	Ⓢ	ELECTRICAL PANELBOARD PER PLANS, SURFACE MOUNTED ON WALL
Ⓢ	TAMPER-RESISTANT DUPLEX GFI RECEPTACLE IN WALL @ +18", U.O.N.	Ⓢ	TERMINAL CABINET PER PLANS, FLUSH MOUNTED IN WALL (5)
Ⓢ	TAMPER-RESISTANT SWITCHED GFCI RECEPTACLE IN WALL @ +18" A.F.F. U.O.N. (OCC. SENSOR OR WALL SWITCH CONTROLLED)	Ⓢ	TERMINAL CABINET PER PLANS, SURFACE MOUNTED ON WALL
Ⓢ	TAMPER-RESISTANT WEATHER RESISTANT (WIR) DUPLEX GFCI RECEPTACLE W/ W.P. COVER @ +18" U.O.N.	Ⓢ	CONTROL PANEL PER PLANS, FLUSH MOUNTED IN WALL (5)
Ⓢ	TAMPER-RESISTANT DUPLEX ISOLATED GROUND RECEPTACLE IN WALL @ +18", U.O.N. (7)	Ⓢ	CONTROL PANEL PER PLANS, SURFACE MOUNTED ON WALL
Ⓢ	TAMPER-RESISTANT QUADRUPLUX RECEPTACLE IN WALL @ +18", U.O.N.	Ⓢ	LIGHTING CONTROL PANEL PER PLANS, FLUSH MOUNTED IN WALL (5)
Ⓢ	SPECIAL PURPOSE ELECTRICAL OUTLET PER PLAN IN WALL @ +18" U.O.N.	Ⓢ	LIGHTING CONTROL PANEL





CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
450 COMMERCE AVE  
ATWATER, CA 95301  
PHONE: (209) 676-8029  
FAX: (209) 676-8067  
WEBSITE: WWW.GDMV.NET

SOUTHERN CALIFORNIA DIVISION  
1860 CHICAGO AVE, SUITE 1-7  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3666  
WEBSITE: WWW.GDMV.NET

## MERCED COLLEGE LOS BANOS

CHILD DEVELOPMENT CENTER

22240 CA-152

LOS BANOS CA 93635

## BUILDING DATA

ROOF LIVE LOAD: 20 PSF  
WIND LOAD: 93 MPH Exp. "C"  
ELECTRICAL: (1) 200A  
SERIAL NUMBER:

FLOOR LIVE LOAD: 50 PSF  
OCCUPANCY: E  
MECHANICAL: YES  
PLUMBING: YES

2AH10101-2AH10103 (BUILDING D)  
2AH10104-2AH10106 (BUILDING E)

## APPLICABLE CODES

2022 California Administrative Code (CAC), Part 1, Title 24 CCR  
2019 California Building Code (CBC), Part 2, Title 24 CCR  
2019 California Plumbing Code (CPC), Part 5, Title 24 CCR  
2019 California Existing Building Code (CEBC), Part 10, Title 24 CCR

## EXISTING APPLICABLE CODES

2001 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)

2001 CALIFORNIA BUILDING CODE VOLUMES 1, 2 AND 3 (PART 2 TITLE 24, CCR) (1997 EDITION UNIFORM BUILDING CODE WITH 2001 CALIFORNIA AMENDMENTS)

2001 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR) (1999 EDITION NATIONAL ELECTRICAL CODE WITH 2001 AMENDMENTS)

2001 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)

2001 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR) (2000 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2001 CALIFORNIA AMENDMENTS)

2001 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)

2001 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)

2001 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)

2001 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

NFPA 13, 1999 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED

NFPA 14, 2000 EDITION, INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS

NFPA 24, 1995 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES

NFPA 72, 1999 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED

### SITE SPECIFIC DESIGN CRITERIA

#### WIND DESIGN DATA:

WIND SPEED: 93 MPH

RISK CATEGORY=II

WIND EXPOSURE=C

INTERNAL PRESSURE COEFFICIENT=+/- 0.18

#### EARTH QUAKEDESIGN DATA:

RISK CATEGORY:II

Ie=1.0

Ss=1.457

S<sub>w</sub>=0.481

SITE CLASS=D

SEISMIC DESIGN CATEGORY=D

BASIC SEISMIC FORCE RESISTING SYSTEM= LIGHT MODULAR STEEL MOMENT FRAME

BASE SHEAR: 10060 POUNDS

C<sub>s</sub>=0.278

R=3.5

ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE

NO VERTICAL OR HORIZONTAL IRREGULARITIES

LOCATION OF BASE=FINISH FLOOR ELEVATION

SCOPE OF WORK:  
GLOBAL MODULAR INC, ADDING AN INTERIOR  
PARTITION WALL TO AN EXISTING 2-36X40  
DSA-CERTIFIED MODULAR CLASSROOM.

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120552 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022



CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION  
450 COMMERCE AVE  
ATWATER, CA 95301  
PHONE: (209) 676-8029  
FAX: (209) 676-8067  
WEBSITE: WWW.GDMV.NET

SOUTHERN CALIFORNIA DIVISION  
1860 CHICAGO AVE, SUITE 1-7  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3666  
WEBSITE: WWW.GDMV.NET

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INC.

PROJECT NAME: 36'X40'  
MERCED COLLEGE  
LOS BANOS DAY CARE  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:

TITLE SHEET

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS  
REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD



ARCHITECT OF RECORD

REVISIONS  
1 -  
2 -  
3 -  
4 -

PROJECT NO.:

DRAWN BY:

SCALE: AS NOTED

DATE: 09.20.22

SHEET NUMBER

A0.0-PS

PROJECT SPECIFIC SHEETS

SHEET	DESCRIPTION
ARCHITECTURALS	
A0.0-PS	TITLE SHEET
A1.1A-PS	FLOOR PLAN & HARDWARE SCHEDULE (BUILDING D)
A1.1B-PS	FLOOR PLAN & HARDWARE SCHEDULE (BUILDING E)
A1.2A-PS	FRAMING PLAN ( BUILDING D)
A1.2B-PS	FRAMING PLAN (BUILDING E)
A2.1A-PS	REFLECTED CEILING & LIGHTING PLAN (BUILDING D)
A2.1B-PS	REFLECTED CEILING & LIGHTING PLAN (BUILDING E)
A5.1A-PS	EXTERIOR & INTERIOR ELEVATIONS (BUILDING D)
A5.1B-PS	EXTERIOR & INTERIOR ELEVATIONS (BUILDING E)
ELECTRICAL	
E1.0A-PS	ELECTRICAL PLAN (BUILDING D)
E1.0B-PS	ELECTRICAL PLAN (BUILDING E)
MECHANICAL	
M1.0A-PS	MECHANICAL PLAN (BUILDING D)
M1.0B-PS	MECHANICAL PLAN (BUILDING E)
PLUMBING	
P1.0A-PS	PLUMBING SCHEDULE & PLAN (BUILDING D)
P1.0B-PS	PLUMBING SCHEDULE & PLAN (BUILDING E)
P2.0A-PS	PLUMBING SCHEMATICS (BUILDING D)
P2.0B-PS	PLUMBING SCHEMATICS (BUILDING E)
FOUNDATION PLAN	
F0.0	GENERAL DETAILS
F3.0	FLUSH TO GRADE CONCRETE FOUNDATION DETAILS
F3.1	FLUSH TO GRADE CONCRETE FOUNDATION PLAN.

MSI APP NO. 01-105425

SHEET	DESCRIPTION
ARCHITECTURALS	
CS	COVER SHEET, BLDG DATA, SHEET INDEX
G-1	GENERAL NOTES & SPECIFICATIONS
G-2	CONSTRUCTION NOTES, BLDG, MATERIALS, DOOR, WINDOW & FINISH SCHEDULES
G-3	STANDARD ARCHITECTURAL PLUMBING DETAILS
G-4	STANDARD ARCHITECTURAL PLUMBING DETAILS
A-1.1-36	36X40 FLOOR PLAN & EXTERIOR ELEVATIONS (BUILDING D)
A-2.1-36	36X40 ROOF PLAN & INTERIOR ELEVATIONS (BUILDING D)
A-3.1-36	36X40 REFLECTED CEILING PLAN & DETAILS (BUILDING D)
M-1.1-36	36X40 MECHANICAL PLAN (BUILDING D)
E-1.1-36	36X40 ELECTRICAL LIGHTING /POWER PLAN & FIRE ALARM (BUILDING D)
A-1.2-36	36X40 FLOOR PLAN & EXTERIOR ELEVATIONS (BUILDING E)
A-2.2-36	36X40 ROOF PLAN & INTERIOR ELEVATIONS (BUILDING E)
A-3.2-36	36X40 REFLECTED CEILING PLAN & DETAILS (BUILDING E)
M-1.2-36	36X40 MECHANICAL PLAN (BUILDING E)
E-1.2-36	36X40 ELECTRICAL LIGHTING /POWER PLAN & FIRE ALARM (BUILDING E)
STRUCTURAL	
S-1	GENERAL NOTES & SPECIFICATIONS
S-5	RIGID FRAME SECTIONS & DETAILS, DUAL SLOPE W/ LIGHT GA. SIDEWALL BEAM W/ TRUSS @ MODLINE W/ PLYWOOD FLOOR (80MPH WIND)
S-10	FLOOR FRAMING PLAN & DETAILS W/PLYWOOD FLOOR (80 & 90 MPH)
S-21	EXTERIOR WALL FRAMING ELEVATIONS
S-25	STEEL STUD WALL FRAMING ELEVATIONS (STEEL STUDS, 80 & 90 MPH WIND)
S-41	ROOF FRAMING PLAN W/ 22GA. ROOF (80 & 90 MPH WIND)
S-51	ROOF FRAMING DETAILS W/22 GAUGE ROOF (80 & 90 MPH WIND)
S-60	DUAL SLOPE TRUSS & DETAILS 20 PSF ROOF (80 MPH WIND)



HARDWARE GROUP (MAIN ENTRY) 1		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	"VON DUPRIN": PANIC HARDWARE MODEL: 22 SERIES, AX & HD51
1	KEYING	CONSTRUCTION KEY
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 (SIDE ENTRY) 2		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	"FALCON": 511 DANE LEVER 626
1	KEYING	CONSTRUCTION KEY
3	HINGES	"MCKINNEY": T2714 4.5"x4.5" NRP A5133
1	CLOSER	"NORTON": 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	"PEMCO": 271A 36"
1	DOOR BOTTOM	"PEMCO": 216AV 36"
1	WEATHER-STRIP	"PEMCO": 2891AS 36"x84"
1	KICK PLATE	"ROCKWOOD": K1050 10"x34"
1	DOOR STOP	"ROCKWOOD": 443 FLOOR STOP (LOCATED 4" FROM WALL)

HARDWARE GROUP (PASSAGE) 3		
QTY.	ITEM	DESCRIPTION
1	PASSAGE LOCKSET	"FALCON": 101 F75 "DANE" LEVER 626
4	HINGES	"MCKINNEY": T2714 4"x4"
1	SLIDE BOLTS	"IVES" SURFACE BOLT #253 8" B626D (RESTROOM DOOR ONLY)

HARDWARE GROUP (OFFICE) 5		
QTY.	ITEM	DESCRIPTION
1	OFFICE LOCKSET	"FALCON": 521 DANE LEVER 626
3	HINGES	"MCKINNEY": T2714 4"x 4"

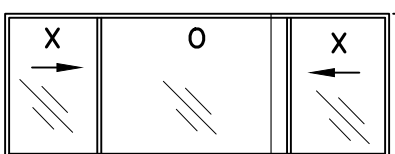
HARDWARE GROUP (PRIVACY) 4		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	"FALCON": 301 DANE LEVER 626
3	HINGES	"MCKINNEY": T2714 4"x4" A5133

ROOM FINISH SCHEDULE										
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE	WALLS				CEILING FINISH	HEIGHT CEILING	REMARKS
				ELEV. 1	ELEV. 2	ELEV. 3	ELEV. 4			
	OPEN AREA	CPT	4TB	VT	VT	VT	VT	AT	8'-6"	-
	OFFICE 1	VCT	4TB	VT	VT	VT	VT	AT	8'-6"	-
	OFFICE 2	VCT	4TB	VT	VT	VT	VT	AT	8'-6"	-
	KITCHENETTE	VCT	4TB	VT	VT	VT	VT	AT	8'-6"	-
	CHILD'S RR	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-6"	-
	STAFF'S RR	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-6"	-

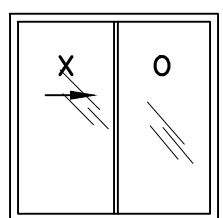
**FLOOR FINISH LEGEND**  
CPT: CARPET FLOORING  
SV: SHEET VINYL FLOORING  
VCT: VINYL COMPOSITION TILE  
4TB: 4" TOP SET BASE  
6TB: 6" TOP SET BASE  
6SC: 6" SELF COVE BASE  
BO: BY OWNER

**CEILING FINISH LEGEND:** (CHECK BOX WHERE APPLICABLE)  
AT: ACOUSTICAL TILE IN HEAVY DUTY T-BAR GRID  
HL: 1/2" GYP BOARD TAPE/TEXTURED/PAINTED  
5/8" GYP BOARD TAPE/TEXTURED/PAINTED

WINDOW SCHEDULE							
	WINDOW WIDTH	WINDOW HEIGHT	WINDOW FRAME	WINDOW FINISH	WINDOW GLAZING	FIRE RATING	REMARKS
A	8'-0"	3'-0"	AL	CA	1&4	-	
B	4'-0"	4'-0"	AL	CA	1&4	-	



WINDOW TYPE A

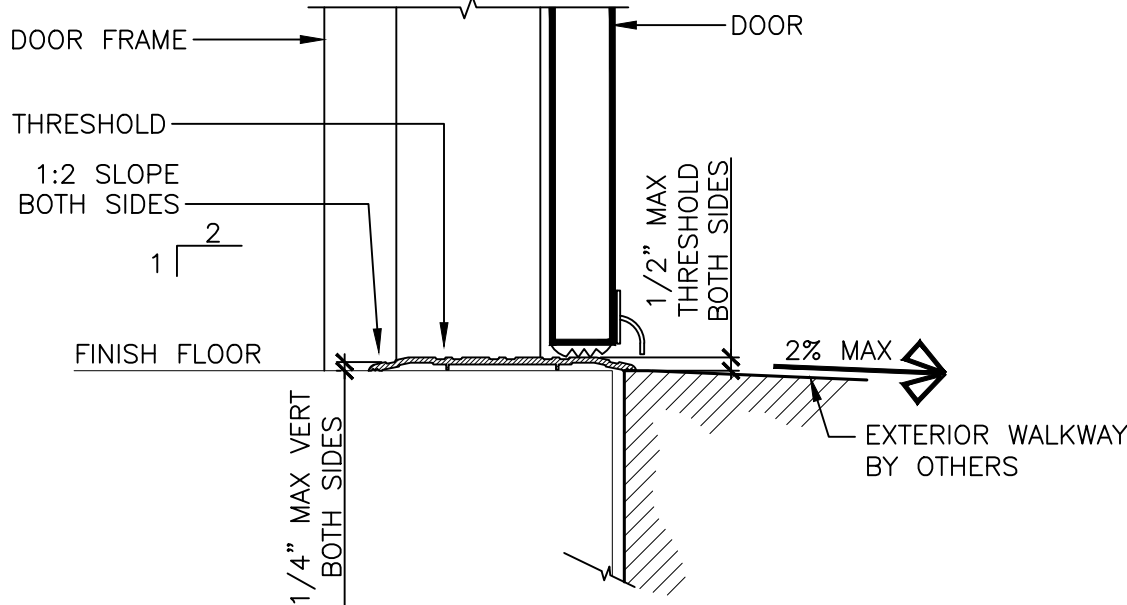


WINDOW TYPE B

X=SLIDER  
O=FIXED

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

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



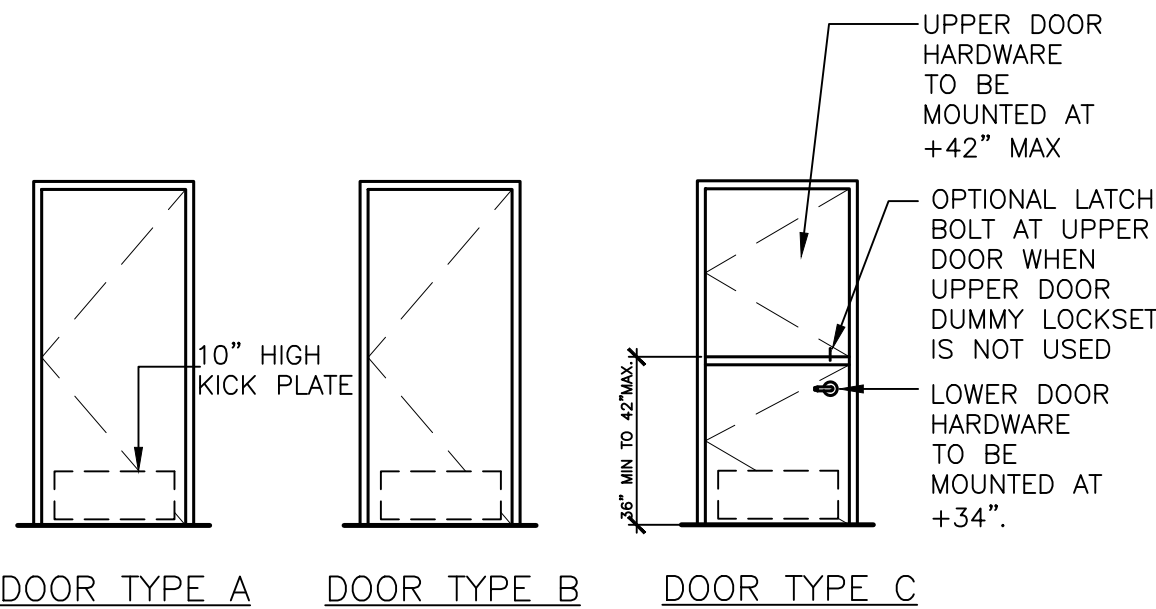
ACCESSIBLE THRESHOLD  
SCALE: NTS

DOOR SCHEDULE											
#	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	HARDWARE GROUP	DOOR MATERIAL	DOOR GAUGE	DOOR FRAME	FRAME GAUGE	GLAZING	FIRE RATING	REMARKS
100	A	3'-0"	6'-8"	1	STL	18	KD	16	—	—	—
200	A	3'-0"	6'-8"	2	STL	—	KD	16	—	—	—
300	B	3'-0"	6'-8"	4	SCL	—	TM	16	—	—	—
400	B	3'-0"	6'-8"	5	SCL	—	TM	16	—	—	—
500	C	3'-0"	6'-8"	3	SCL	—	TM	16	—	—	—

**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:**  
NEW BUILDINGS OR EXISTING BUILDINGS RECEIVING INTERIOR MODERNIZATION, SERVING K-12, CONSTRUCTED WITH STATE FUNDS, ON NEW OR EXISTING CAMPUSES WITH INDIVIDUAL ROOMS WITH AN OCCUPANT LOAD OF 5 OR MORE AND BUILDING ENTRANCES SHALL BE EQUIPPED WITH INTERIOR LOCKING DOOR HARDWARE

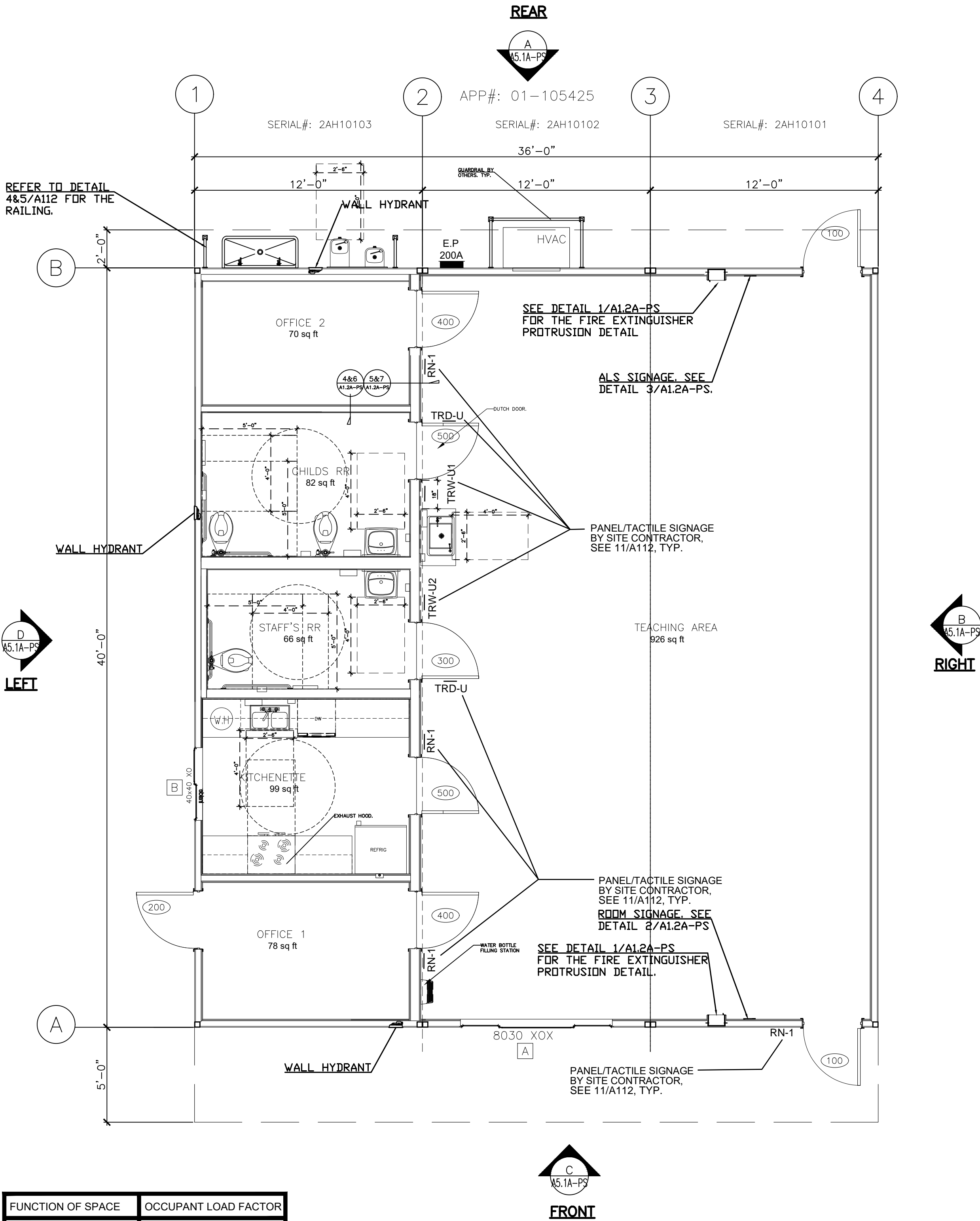


DOOR TYPE A DOOR TYPE B DOOR TYPE C

**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

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



FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
DAYCARE	35
36'x40'= 1440 SQ.FT 1440/35= 41 TOTAL OCCUPANTS.	

FLOOR PLAN BUILDING D SCALE: 1/4"=1'-0"

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120552 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022

**GLOBAL MODULAR**  
INCORPORATED

**AURORA MODTECH**  
DESIGNS

CONTRACTORS LICENSE #837357  
NORTHERN CALIFORNIA DIVISION 450 COMMERCE AVE. SUITE 100 ATWATER, CA 95301  
PHONE: (209) 678-8029 FAX: (209) 678-8057  
WEBSITE: WWW.GDM.NET  
SOUTHERN CALIFORNIA DIVISION 1880 CHICAGO AVE., SUITE 107 RIVERSIDE, CA 92507  
PHONE: (951) 686-3633 FAX: (951) 686-3666  
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PROJECT NAME: 36'x40'  
MERCED COLLEGE  
LOS BANOS DAY CARE  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:  
FLOOR PLAN &  
HARDWARE SCHEDULE  
BUILDING D

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

ARCHITECT OF RECORD

ARCHITECT OF RECORD

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HARDWARE GROUP (MAIN ENTRY) 1		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	"VON DUPRIN": PANIC HARDWARE MODEL: 22 SERIES, AX & HDSI
1	KEYING	CONSTRUCTION KEY
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 (SIDE ENTRY) 2		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	"FALCON": 511 DANE LEVER 626
1	KEYING	CONSTRUCTION KEY
3	HINGES	"MCKINNEY": T2714 4.5"x4.5" NRP A5133
1	CLOSER	"NORTON": 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)
1	THRESHOLD	"PEMKO": 271A 36"
1	DOOR BOTTOM	"PEMKO": 216AV 36"
1	WEATHER-STRIP	"PEMKO": 2891AS 36"x84"
1	KICK PLATE	"ROCKWOOD": K1050 10"x34"
1	DOOR STOP	"ROCKWOOD": 443 FLOOR STOP (LOCATED 4" FROM WALL)

HARDWARE GROUP DUTCH DOOR (PASSAGE) 3		
QTY.	ITEM	DESCRIPTION
1	PASSAGE LOCKSET	"FALCON": 101 F75 "DANE" LEVER 626
4	HINGES	"MCKINNEY": T2714 4"x4"
1	SLIDE BOLTS	"IVES": SURFACE BOLT #253 8" B626D (RESTROOM DOOR ONLY)

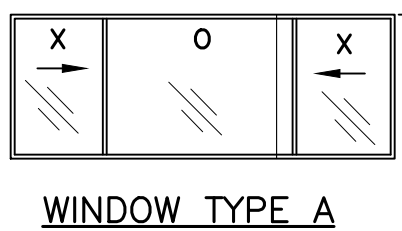
HARDWARE GROUP (PRIVACY) 4		
QTY.	ITEM	DESCRIPTION
1	LOCK SET	"FALCON": 301 DANE LEVER 626
3	HINGES	"MCKINNEY": T2714 4"x4" A5133

ROOM FINISH SCHEDULE										
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE	WALLS				CEILING FINISH	HEIGHT CEILING	REMARKS
				ELEV. 1	ELEV. 2	ELEV. 3	ELEV. 4			
	OPEN AREA	CPT	4TB	VT	VT	VT	VT	AT	8'-6"	-
	OFFICE 1	VCT	4TB	VT	VT	VT	VT	AT	8'-6"	-
	JANITOR CLOSET	SV	4TB	FRP	FRP	FRP	FRP	AT	8'-6"	-
	KITCHENETTE	VCT	4TB	VT	VT	VT	VT	AT	8'-6"	-
	CHILD'S RR	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-6"	-
	STAFF'S RR	SV	6SC	FRP	FRP	FRP	FRP	AT	8'-6"	-

**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

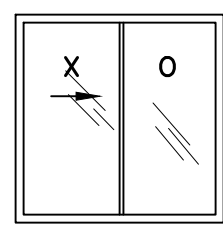
**CEILING FINISH LEGEND:** (CHECK BOX WHERE APPLICABLE)  
AT: ACOUSTICAL TILE IN HEAVY DUTY T-BAR GRID  
HL: 1/2" GYP BOARD TAPE/TEXTURED/PAINTED  
5/8" GYP BOARD TAPE/TEXTURED/PAINTED

WINDOW SCHEDULE						
#	WINDOW WIDTH	WINDOW HEIGHT	WINDOW FRAME	WINDOW FINISH	WINDOW GLAZING	FIRE RATING
A	8'-0"	3'-0"	AL	CA	1&4	-
B	4'-0"	4'-0"	AL	CA	1&4	-



WINDOW TYPE A

X=SLIDER  
O=FIXED



WINDOW TYPE B

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

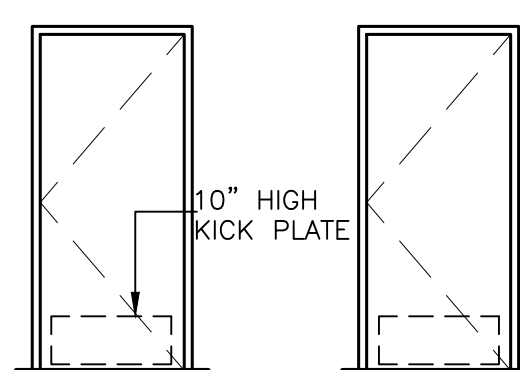
**WINDOW FRAME LEGEND**  
AL: ALUMINUM  
HM: HOLLOW METAL

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"	6'-8"	1	STL	18	KD	16	-	-
200	A	3'-0"	6'-8"	2	STL	-	KD	16	-	-
300	B	3'-0"	6'-8"	4	SCL	-	TM	16	-	-
400	B	3'-0"	6'-8"	5	SCL	-	TM	16	-	-
500	C	3'-0"	6'-8"	3	SCL	-	TM	16	-	-
600	B	3'-0"	6'-8"	6	SCL	-	TM	16	-	-

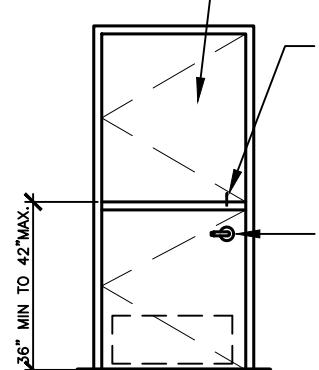
**DOOR MATERIAL LEGEND**  
STL: STEEL DOOR-HOLLOW CORE  
SCW: SOLID CORE WOOD  
SCL: SOLID CORE WOOD LEGACY  
HCW: HOLLOW CORE WOOD  
SF: STORE FRONT

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

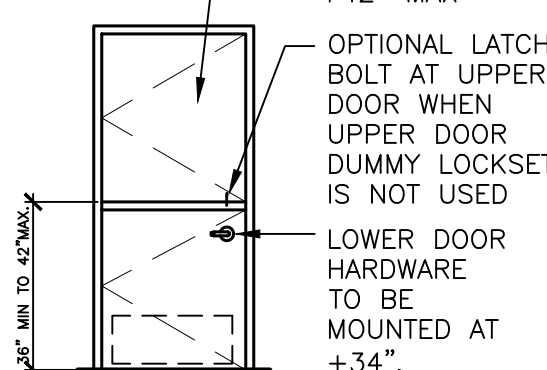
**NOTE:**  
NEW BUILDINGS OR EXISTING BUILDINGS RECEIVING INTERIOR MODERNIZATION, SERVING K-12, CONSTRUCTED WITH STATE FUNDS, ON NEW OR EXISTING CAMPUSES WITH INDIVIDUAL ROOMS WITH AN OCCUPANT LOAD OF 5 OR MORE AND BUILDING ENTRANCES SHALL BE EQUIPPED WITH INTERIOR LOCKING DOOR HARDWARE



DOOR TYPE A



DOOR TYPE B



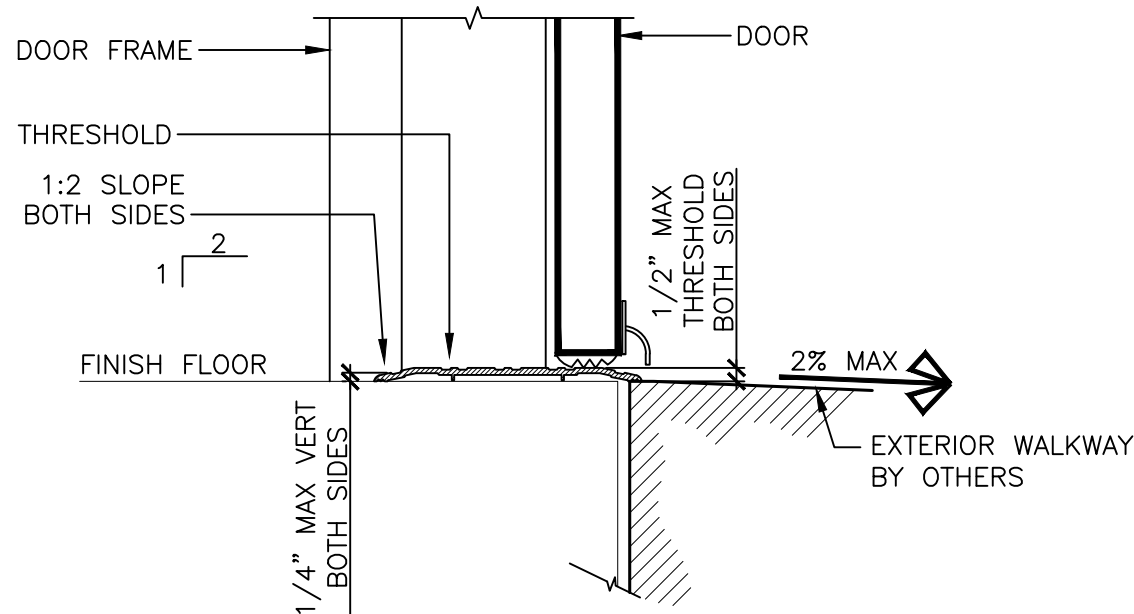
DOOR TYPE C

HARDWARE GROUP (OFFICE) 5			HARDWARE GROUP (JANITOR CLOSET) 6		
QTY.	ITEM	DESCRIPTION	QTY.	ITEM	DESCRIPTION
1	OFFICE LOCKSET	"FALCON": 521 DANE LEVER 626	1	STORAGE LOCKSET	"FALCON": 581 DANE LEVER 626
3	HINGES	"MCKINNEY": T2714 4"x 4"	3	HINGES	"MCKINNEY": T2714 4"x 4"
			1	CLOSER	"NORTON": 8301 SLIM COVER (5 LB OPERATING PUSH/PULL PRESSURE)

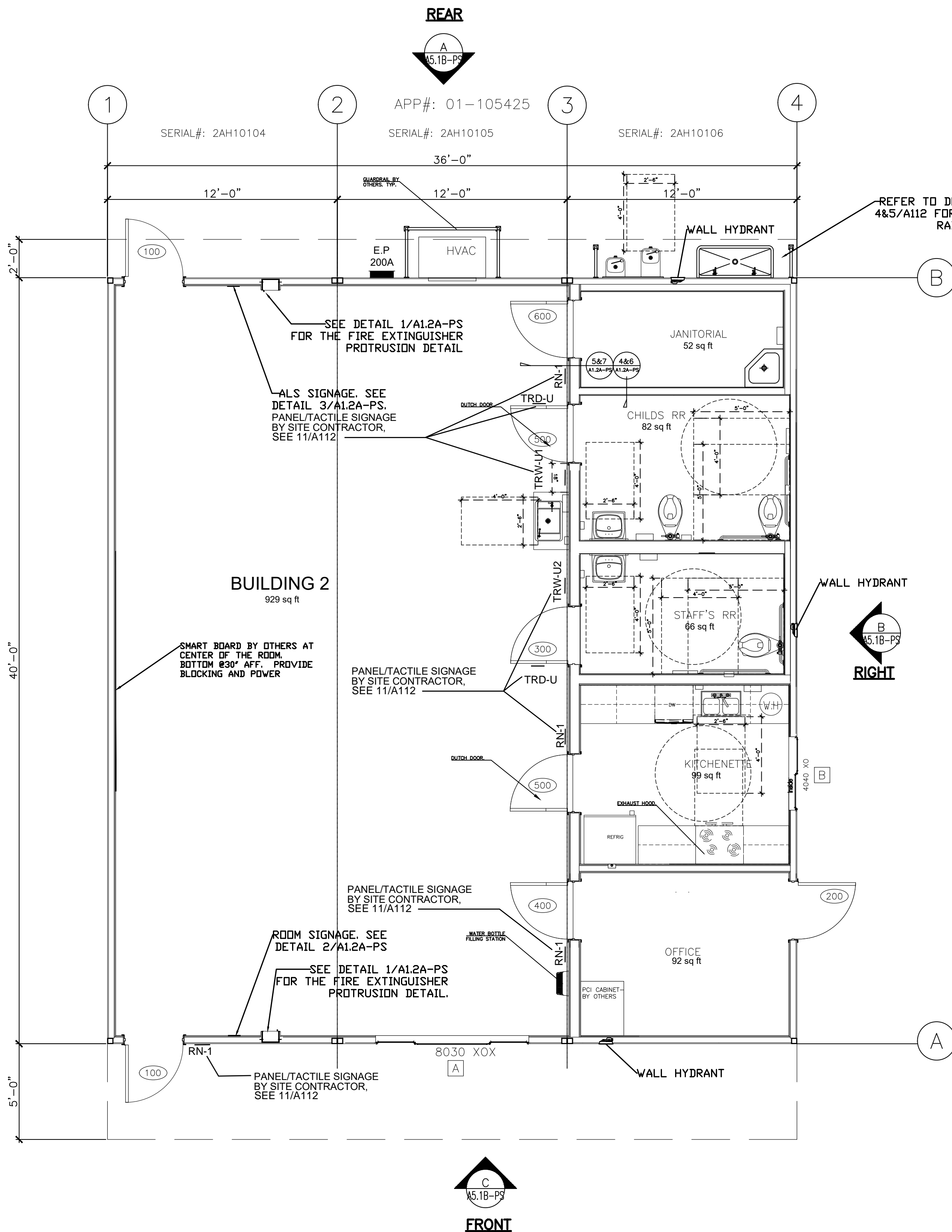
**WALL FINISH LEGEND:** (CHECK BOX WHERE APPLICABLE)  
VT: 1/2" VINYL TACK BOARD OVER:  
1/2" GYP BOARD ☒  
OPTIONAL 5/8" GYP BOARD ☐  
NOTE: USE TYPE 'X' GYP BOARD WHERE CALL FOR. USE MOISTURE RESISTANT GYP BOARD BEHIND CLASSROOM SINKS

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



ACCESSIBLE THRESHOLD  
SCALE: NTS



FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
DAYCARE	35
36'x40'= 1440 SQ.FT 1440/35= 41 TOTAL OCCUPANTS.	

NORTH →

FLOOR PLAN BUILDING E SCALE: 1/4"=1'-0"

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120552 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022

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

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450 COMMERCE AVE  
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FAX: (951) 686-3666  
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PROJECT NAME: 36'x40'  
**MERCED COLLEGE**  
**LOS BANOS DAY CARE**  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:

**FLOOR PLAN &  
HARDWARE SCHEDULE**

**BUILDING E**

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD



ARCHITECT OF RECORD

REVISIONS

PROJECT NO.:

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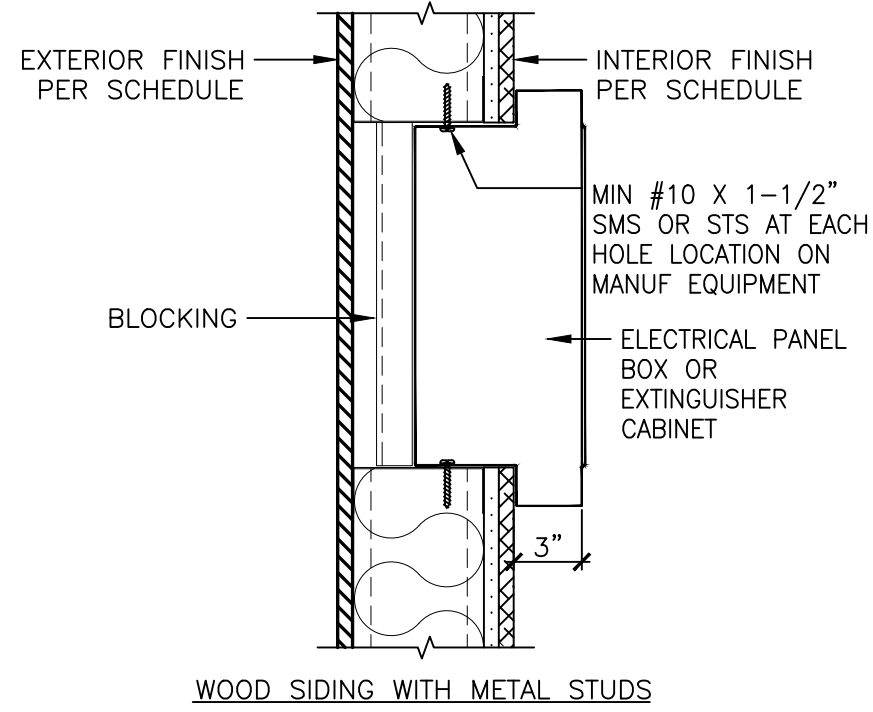
SCALE: AS NOTED

DATE: 09.20.22

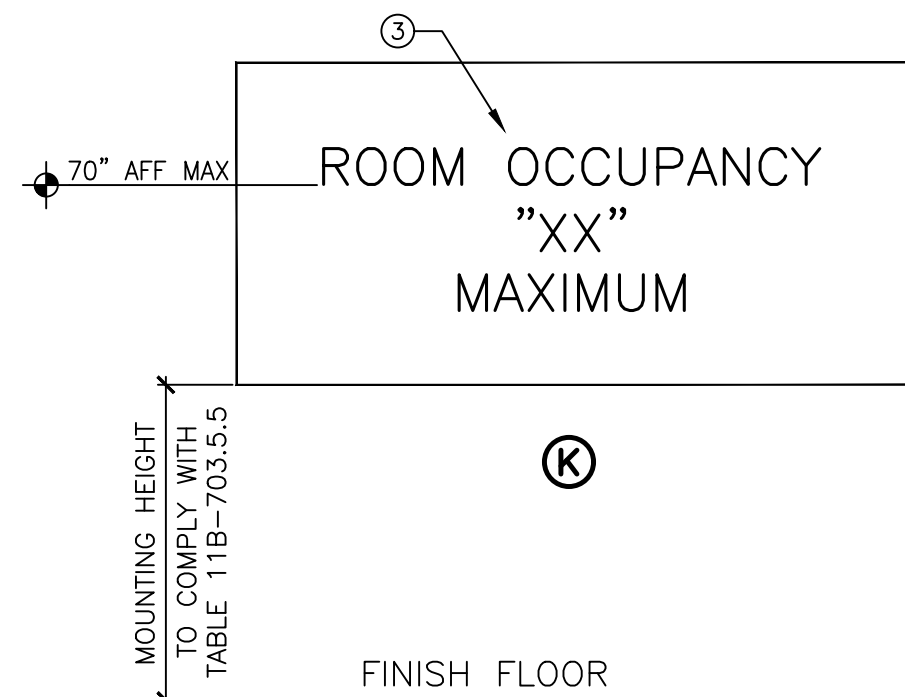
SHEET NUMBER

**A1.1B-PS**



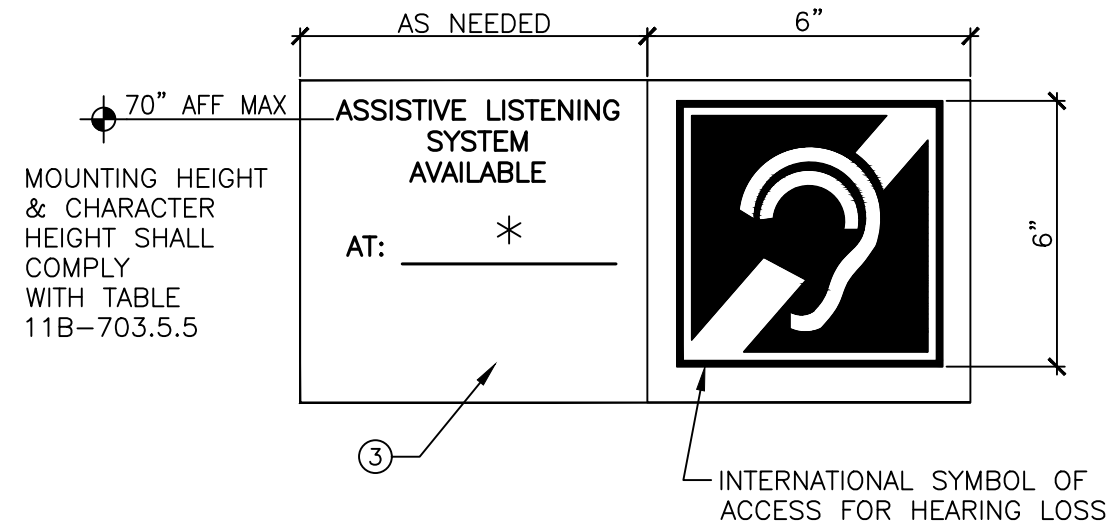


### ELECT PANEL/FIRE EXTINGUISHER CABINET STEEL STUD FRAMING AT EXTERIOR WALL



- NOTES:
- SIGN MATERIAL TO BE 1/8" THICK ES PLASTIC. MOUNT WITH VANDAL RESISTANT FASTENERS
  - SIGN PROVIDED BY DISTRICT UNO
  - OCCUPANT LOAD SIGN SHALL BE PROVIDED FOR ROOM OR SPACE WITH OCCUPANT LOAD OF 50 OR MORE. CBC 1004.9
- ③ 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

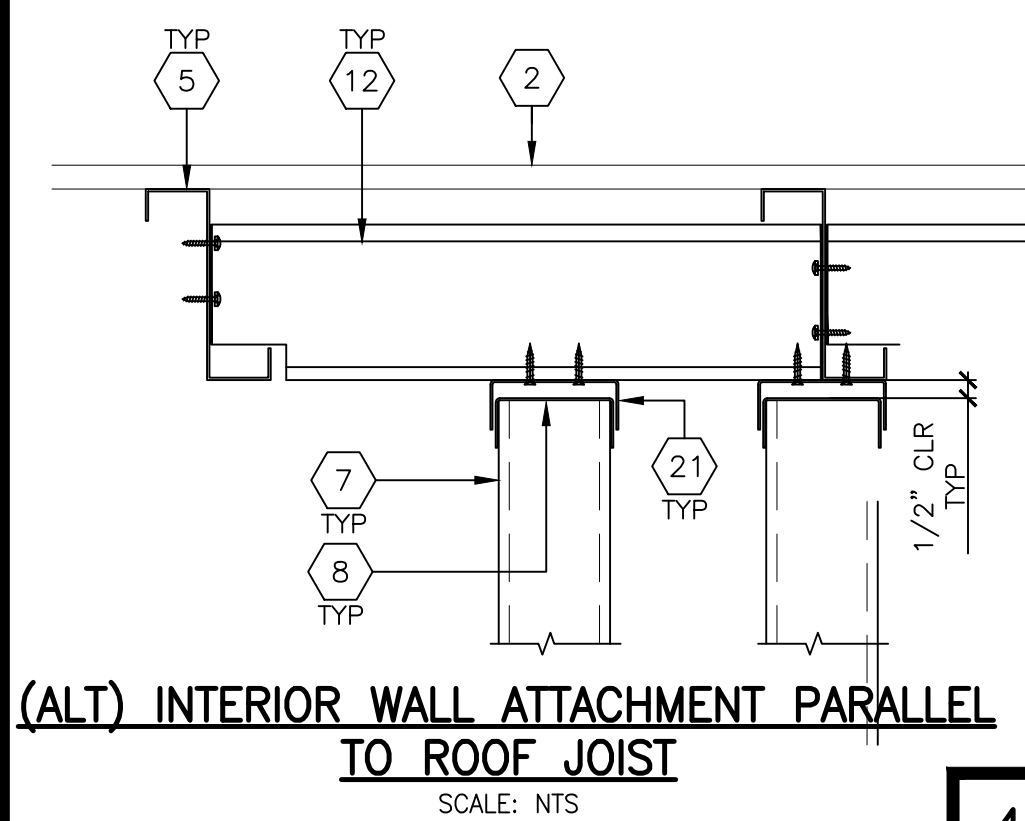
### OCCUPANCY SIGNAGE



- NOTES:
- SIGN MATERIAL TO BE 1/8" THICK ES PLASTIC. MOUNT WITH VANDAL RESISTANT FASTENERS
  - CBC SECTION 11B-216.10 ASSISTIVE LISTENING SYSTEMS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS COMPLYING WITH FIGURE 11B-703.7.2.4
  - PROVIDE ONE SIGN WHERE INDICATED ON PLANS
  - SIGN SHALL HAVE A NON-GLARE FINISH AND BE DISPLAYED EITHER AS A NEGATIVE OR POSITIVE IMAGE WITHIN A SQUARE THAT IS A MINIMUM OF 6 INCHES ON EACH SIDE. THE SYMBOL MAY BE SHOWN IN BLACK AND WHITE OR IN COLOR. THERE SHALL BE AT LEAST A 70 PERCENT COLOR CONTRAST BETWEEN THE BACKGROUND OF THE SIGN FROM THE SURFACE THAT IT IS MOUNTED ON
  - SIGN PROVIDED BY DISTRICT UNO
  - CHARACTERS SHALL COMPLY WITH 11B-703.5

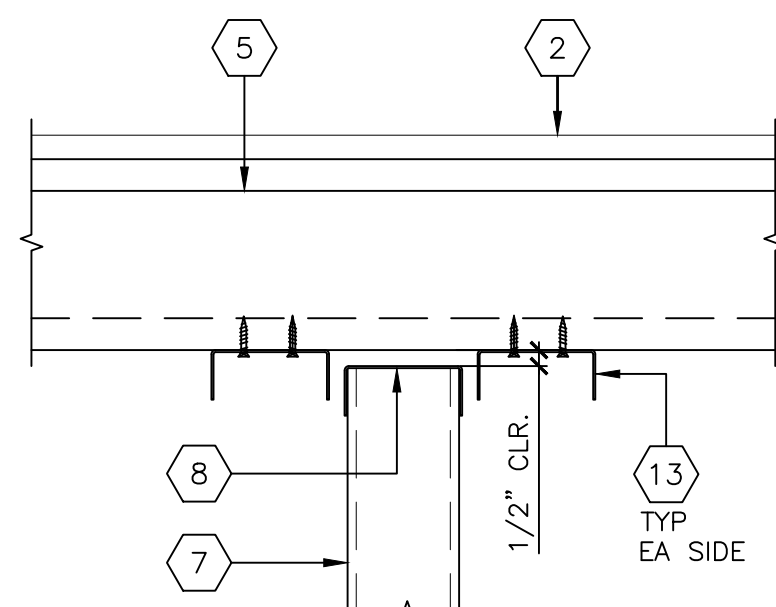
\* SITE SPECIFIC INFORMATION PROVIDED BY ARCHITECT  
(TO BE INCLUDED AS PERMANENT PART OF SIGN)

### ASSISTIVE LISTENING SYSTEM



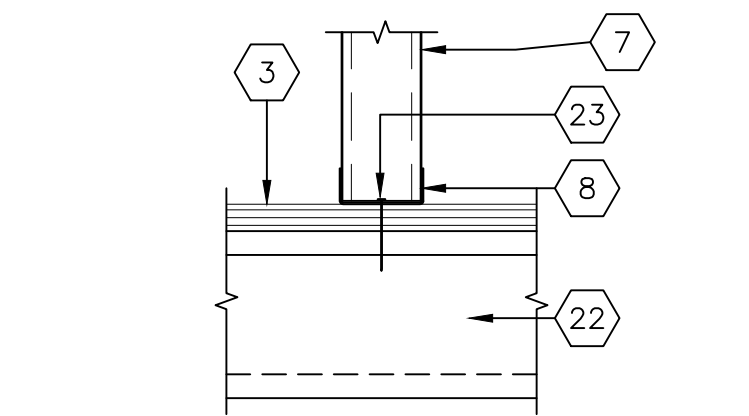
### (ALT) INTERIOR WALL ATTACHMENT PARALLEL TO ROOF JOIST

SCALE: NTS



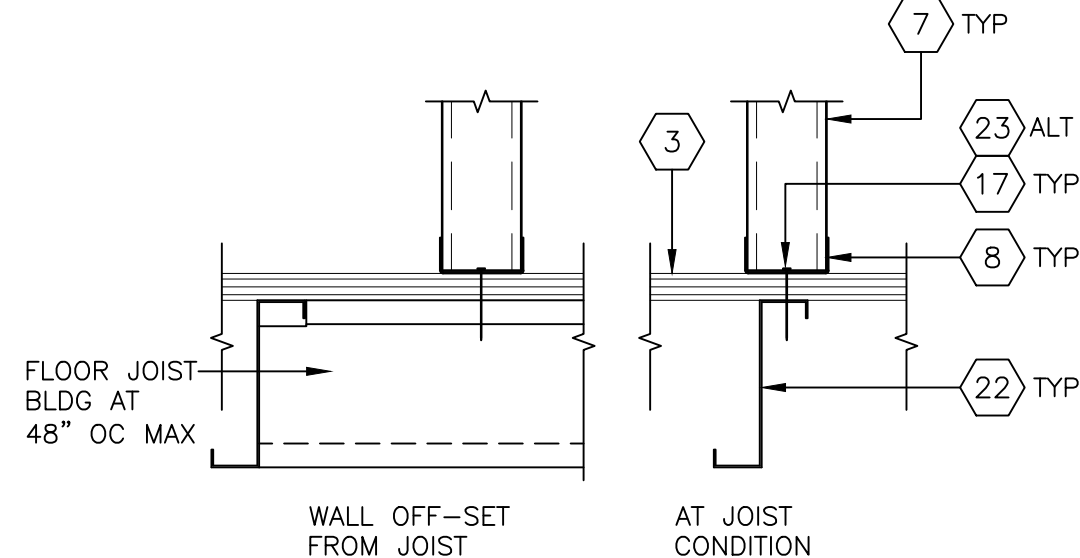
### INTERIOR WALL ATTACHMENT (PERPEND)

SCALE: 1" = 1'-0"



### INTERIOR WALL AT FLOOR PERPENDICULAR TO FLOOR JOIST

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

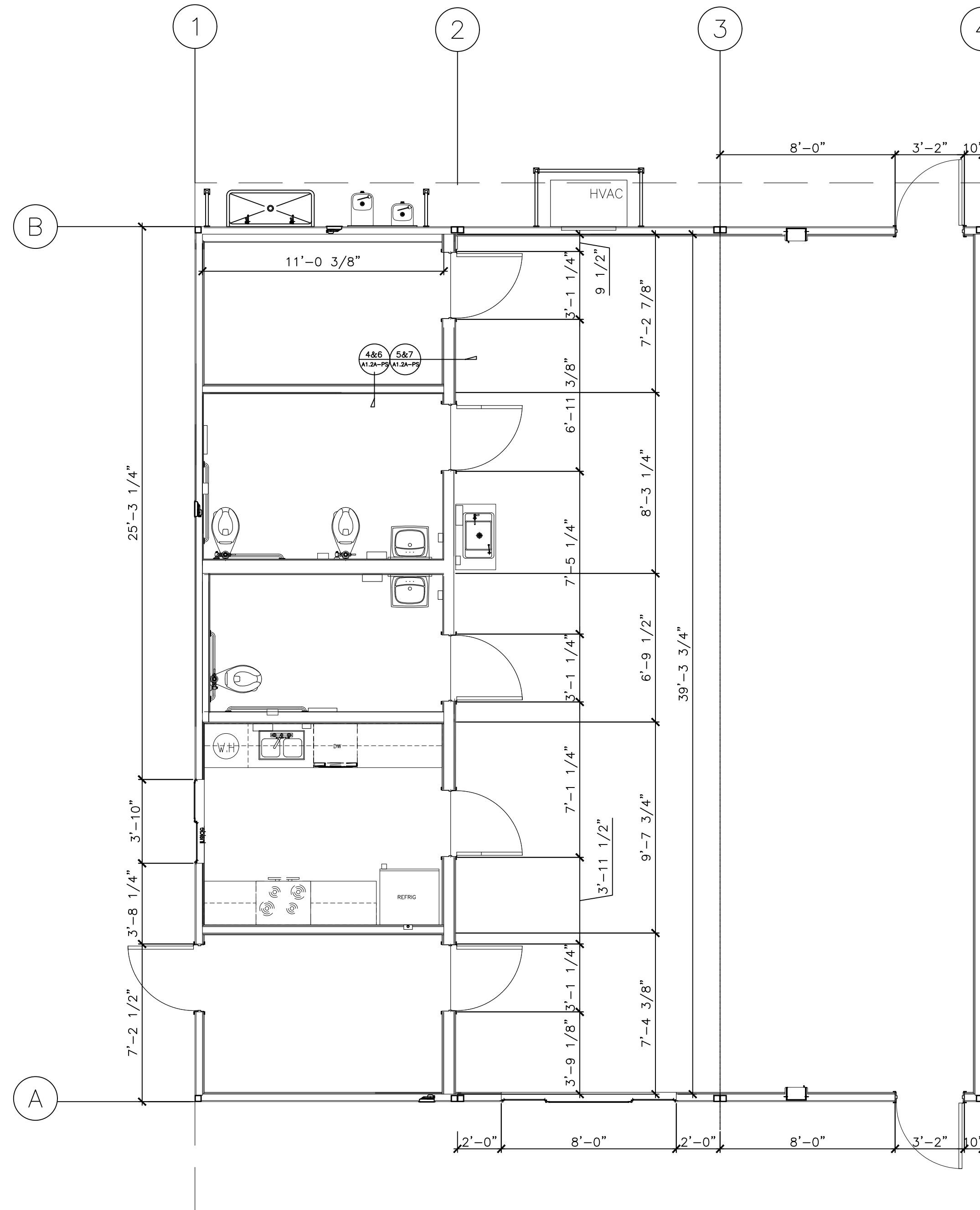


### INTERIOR WALL AT FLOOR PARALLEL TO FLOOR JOIST

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

### KEY NOTES

- EXTERIOR PLYWOOD SIDING/SHEATHING
- ROOF DIAPHRAGM
- FLOOR SYSTEM
- STEEL COLUMN
- STEEL ROOF JOIST
- PERIMETER FLOOR FRAME
- METAL STUD (SEE MANUFACTURER'S WALL FRAMING PLAN ON SHEET S-21)
- METAL TRACK
- CONTINUOUS SPACER AS REQUIRED
- ROOF/CEILING BEAM
- # 10 SMS @ 24" O.C. AT DOUBLE STUDS
- C-5 1/2" X 1 5/8" X 20 GA STUD BLK ATTACHED TO ROOF JOIST WITH (2) #10 STS EACH END (BEND ENDS AS REQUIRED) AT 48" OC MAX
- C-3 1/2" X 1 5/8" X 20 GA TRACK ATTACHED TO BLOCKING OR JOIST WITH (2) #10 STS
- ~~METAL FLOOR DECKING~~
- ~~TRUSS BOTTOM CHORD~~
- ~~R-19 INSULATION IN EXTERIOR WALL~~
- 'HILT' X-U 15 0.145" X 1-7/8" SHOT PIN AT 24" OC MAX EDGE DISTANCE TO BE 4" MIN AND 8" MAX AT END OF SILL PLATE, 2 MIN FASTENERS PER PLATE
- ~~WALL MOUNTED AC UNIT (SEE MECHANICAL PLANS)~~
- ~~16 GA X 24" LONG STEEL BOTTOM BRACKET AT AC~~
- ~~3/8" X MIN 3-1/2" LAG BOLTS, QUANTITY INDICATED PER DETAIL~~
- CONTINUOUS 3 1/2" X 1 5/8" X 20 GA TRACK, SECURED TO MEMBERS WITH (2) #10 STS OR (2) 16d NAILS INTO 2x BLOCKING TYPICAL
- FLOOR JOIST MEMBER OR BLOCKING
- MIN #10 X 1-1/2" STS SPACING PER "JAMB STUD TO COLUMN" ON S3.2



FLOOR PLAN BUILDING D SCALE: 1/4"=1'-0"

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120552 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022

**GLOBAL MODULAR**  
INCORPORATED

**AURORA MODTECH**  
DESIGNS

CONTRACTORS LICENSE #837357  
NORTHERN CALIFORNIA DIVISION  
450 COMMERCE AVE  
ATWATER, CA 95301  
PHONE: (209) 676-8029  
FAX: (209) 676-8087  
WEBSITE: WWW.GDM.NET  
SOUTHERN CALIFORNIA DIVISION  
1860 CHICAGO AVE., SUITE 1-7  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3666  
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PROJECT NAME: 36'X40'  
MERCED COLLEGE  
LOS BANOS DAY CARE  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:

FRAMING PLAN  
BUILDING D

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS  
REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD



ARCHITECT OF RECORD

REVISIONS

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PROJECT NO.:

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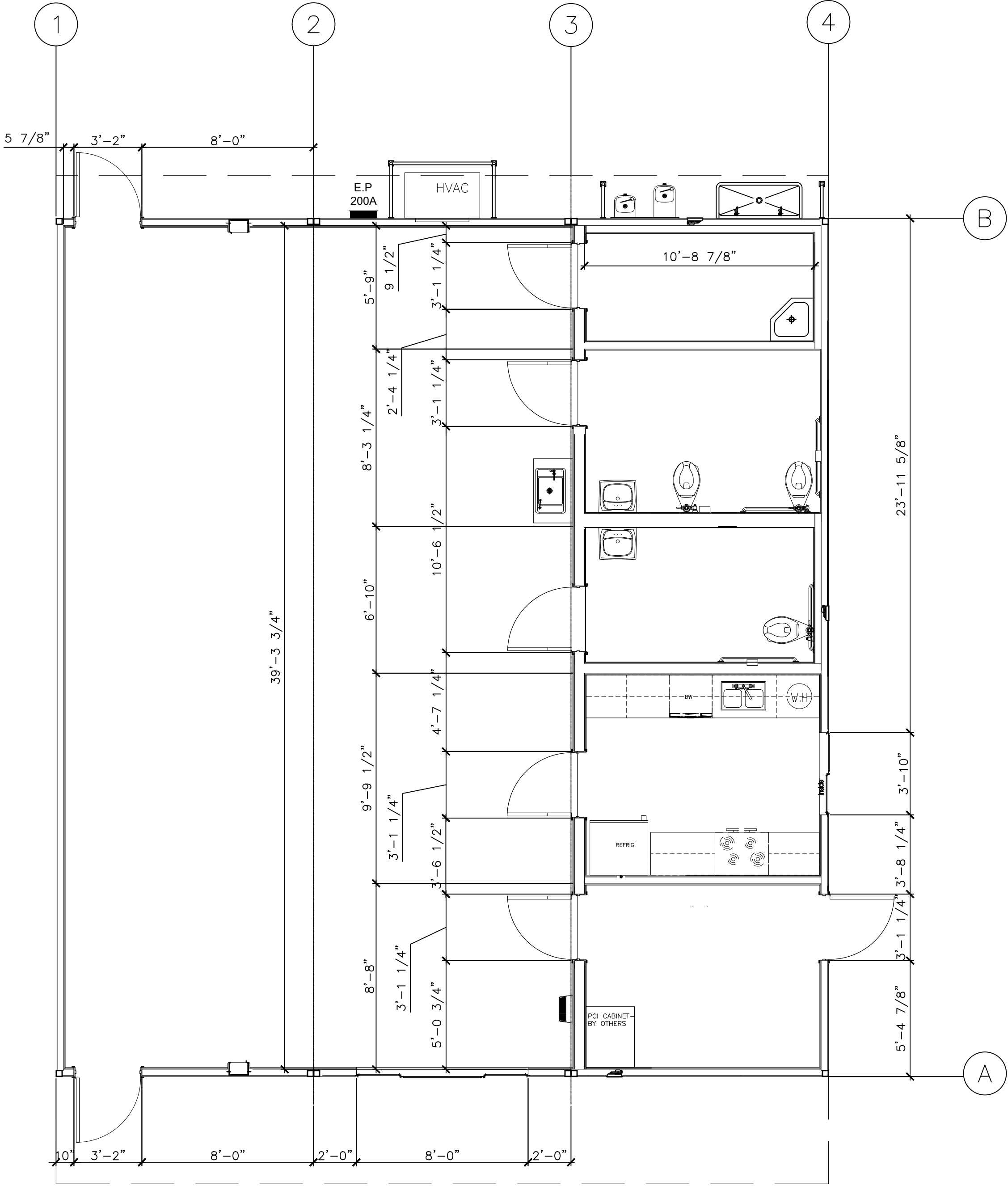
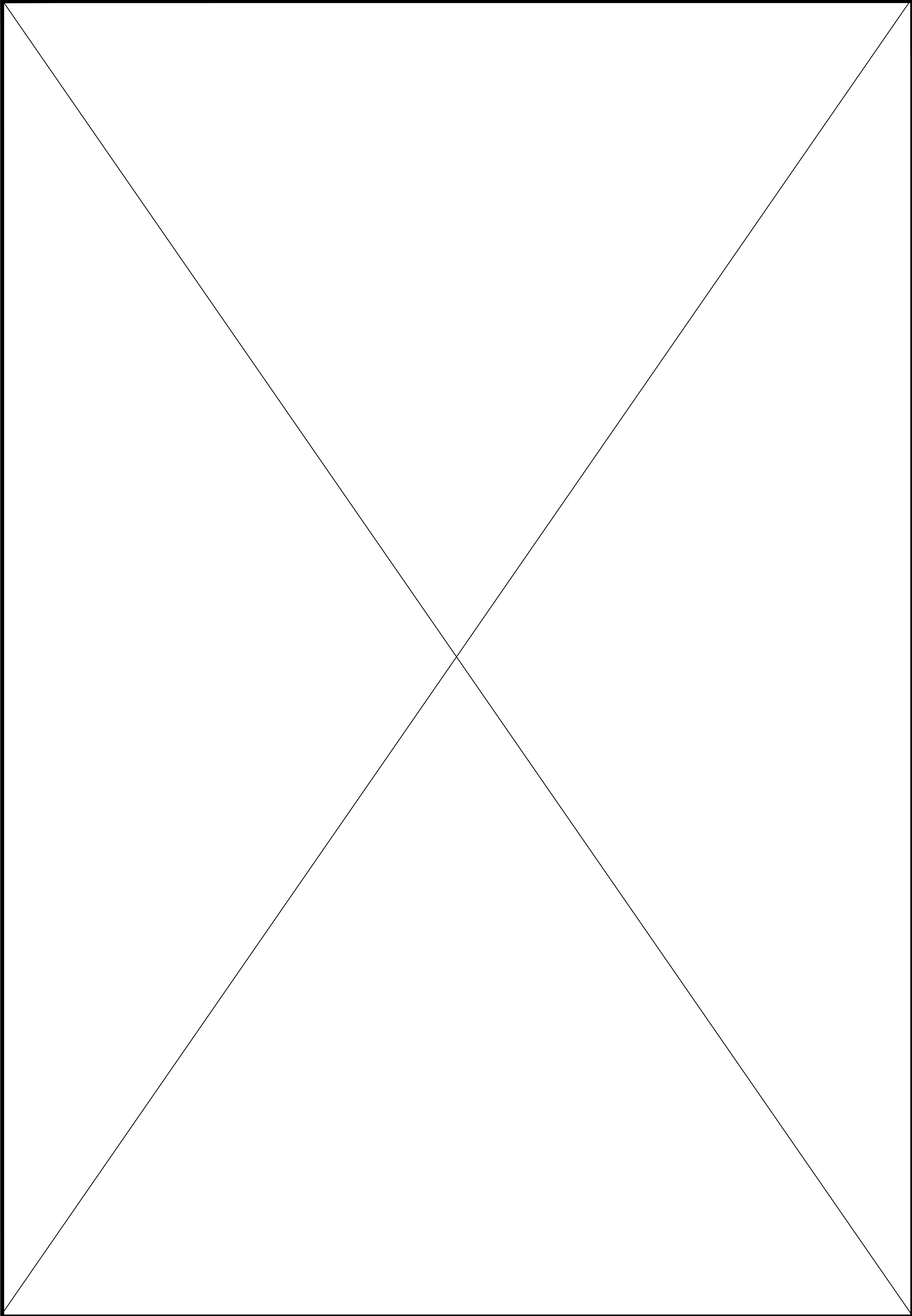
SCALE: AS NOTED

DATE: 09.20.22

SHEET NUMBER

A1.2A-PS





FLOOR PLAN BUILDING E SCALE: 1/4"=1'-0"

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MODULAR STRUCTURES  
INTERNATIONAL, INC.  
DESIGN

CONTRACTORS LICENSE #837357

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450 COMMERCE AVE  
ATWATER, CA 95301  
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WEBSITE: WWW.GDMJ.NET

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PROJECT NAME: 36'X40'  
MERCED COLLEGE  
LOS BANOS DAY CARE  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:  
  
FRAMING PLAN  
  
BUILDING E

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ARCHITECT OF RECORD

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PROJECT NO.:

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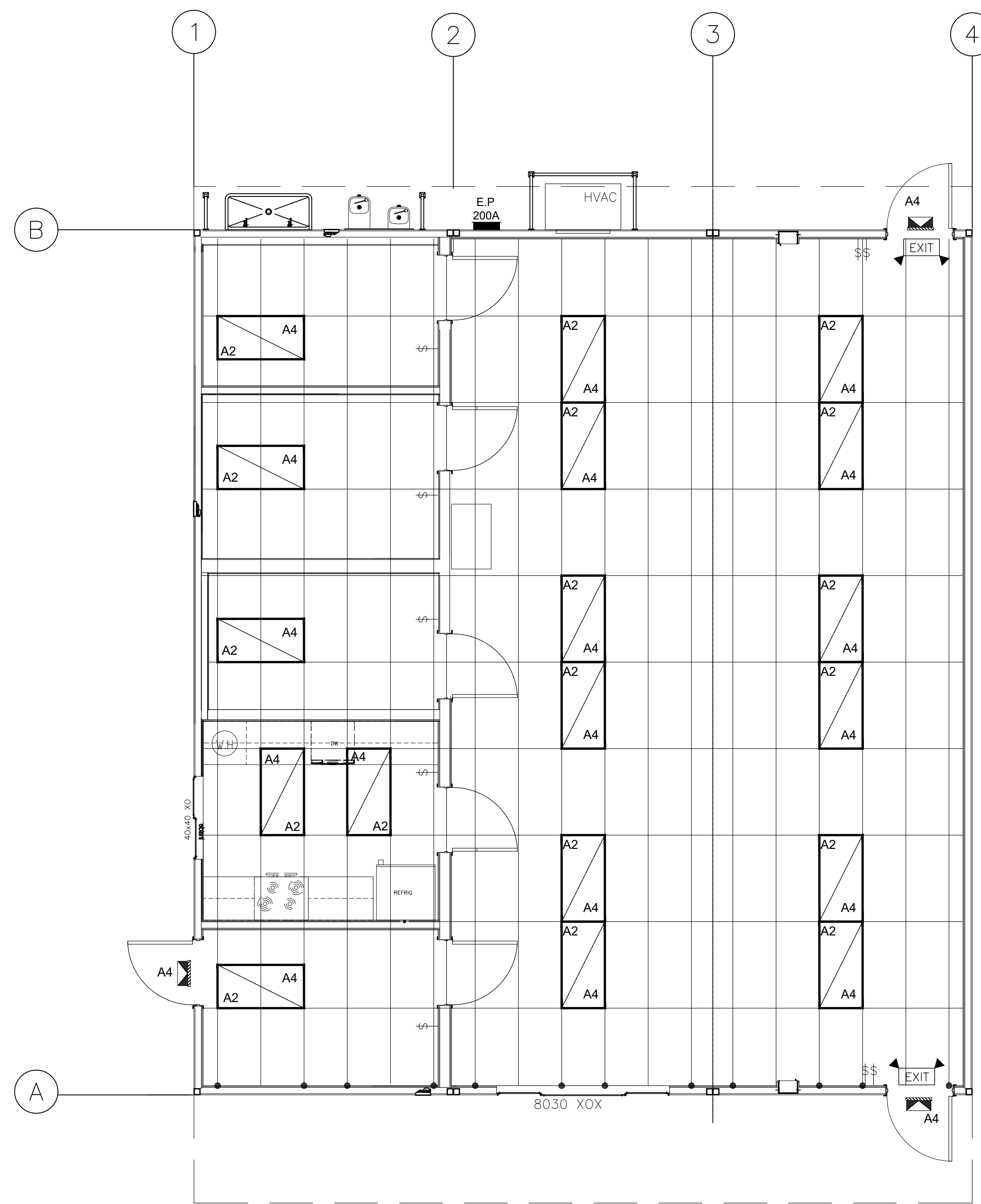
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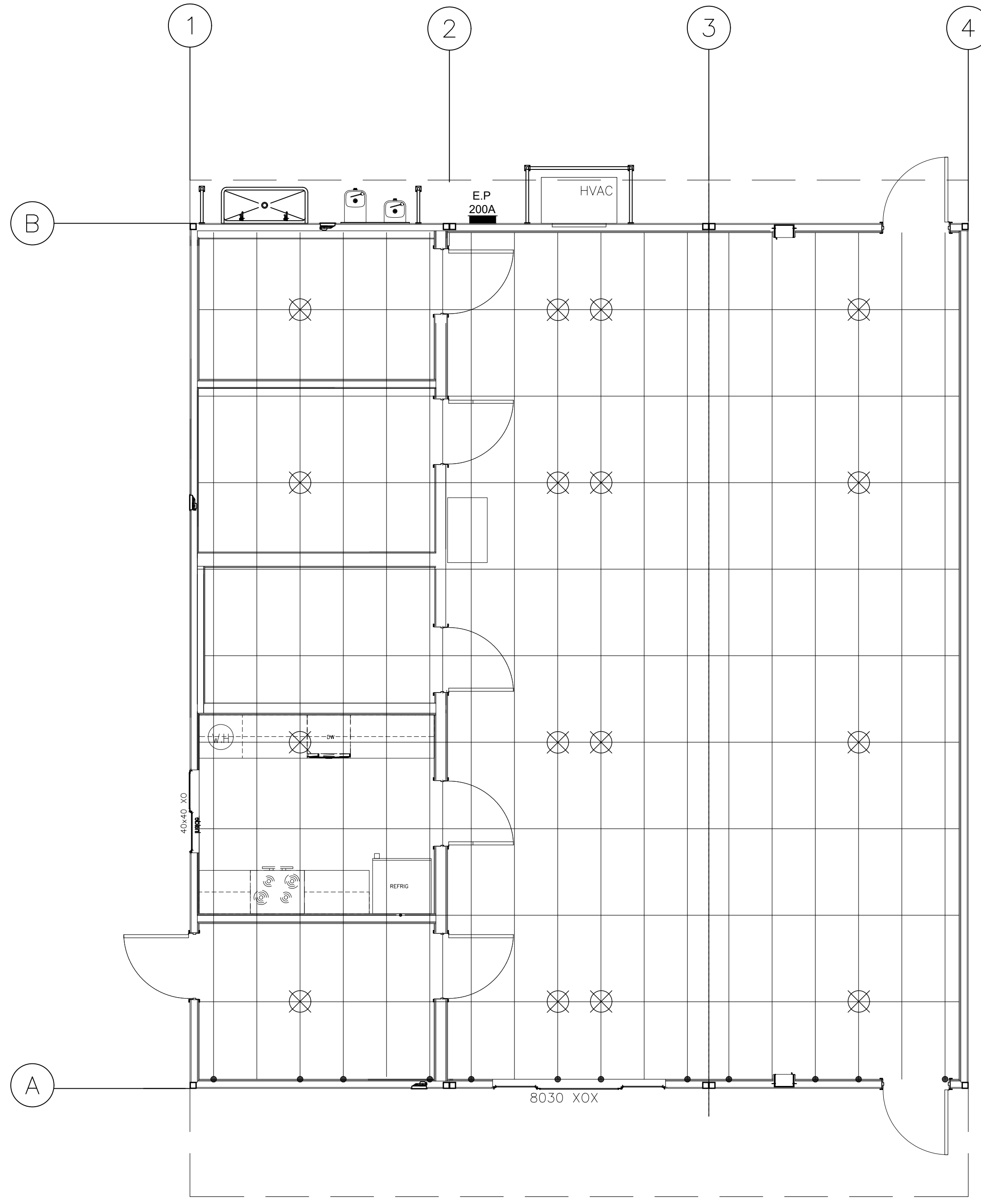
SHEET NUMBER

A1.2B-PS





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



CEILING HEIGHT: 8'-6"

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

NOTE: SEE SHEET A-3.1-36 FOR THE T-GRID LAYOUT AND ANCHORAGE DETAILS.

PROJECT SPECIFIC STATE AGENCY APPROVAL

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**GLOBAL MODULAR**  
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**AURORA MODTECH**  
*DESIGNS*

**MODULAR STRUCTURES**  
*INTERNATIONAL, INC.*  
DESIGNS

CONTRACTORS LICENSE #837357

**NORTHERN CALIFORNIA DIVISON**  
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**SOUTHERN CALIFORNIA DIVISON**  
1860 CHICAGO AVE., SUITE 1-7  
RIVERSIDE, CA 92507  
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PROJECT NAME: 36'X40'  
MERCED COLLEGE  
LOS BANOS DAY CARE  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:  
  
REFLECTED CEILING  
& LIGHTING PLAN  
BUILDING D

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC

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MFR. STRUCTURAL ENGINEER OF RECORD ON PC

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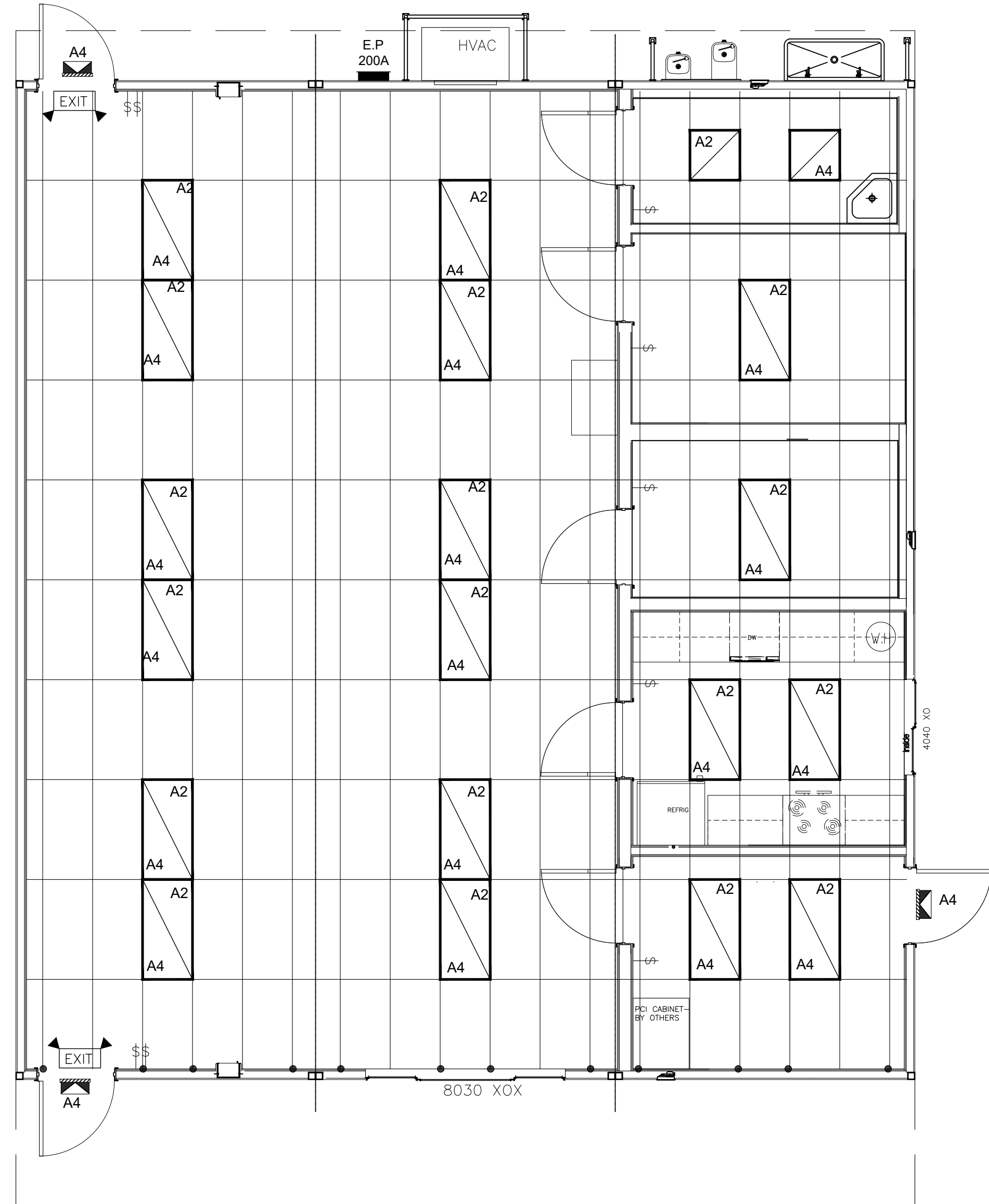
ARCHITECT OF RECORD

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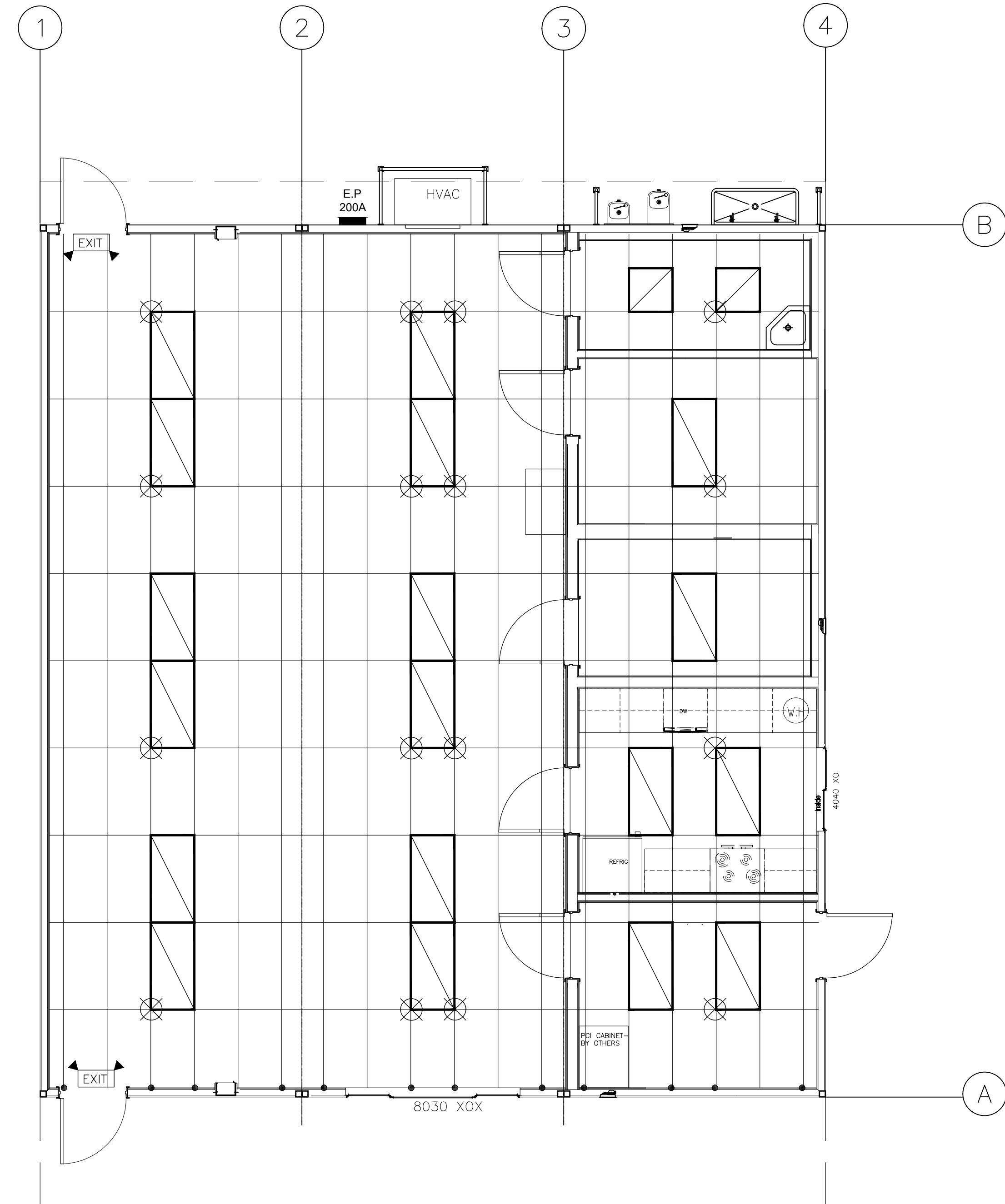
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DRAWN BY:  
SCALE: AS NOTED  
DATE: 09.20.22  
SHEET NUMBER

A2.1A-PS





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



CEILING HEIGHT: 8'-6"

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

NOTE: SEE SHEET A-3.1-36 FOR THE T-GRID LAYOUT AND ANCHORAGE DETAILS.

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME: 36'X40'  
**MERCED COLLEGE**  
**LOS BANOS DAY CARE**  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:  
**REFLECTED CEILING**  
**& LIGHTING PLAN**  
**BUILDING E**

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC

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MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD



ARCHITECT OF RECORD

REVISIONS  
-  
-  
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PROJECT NO.:

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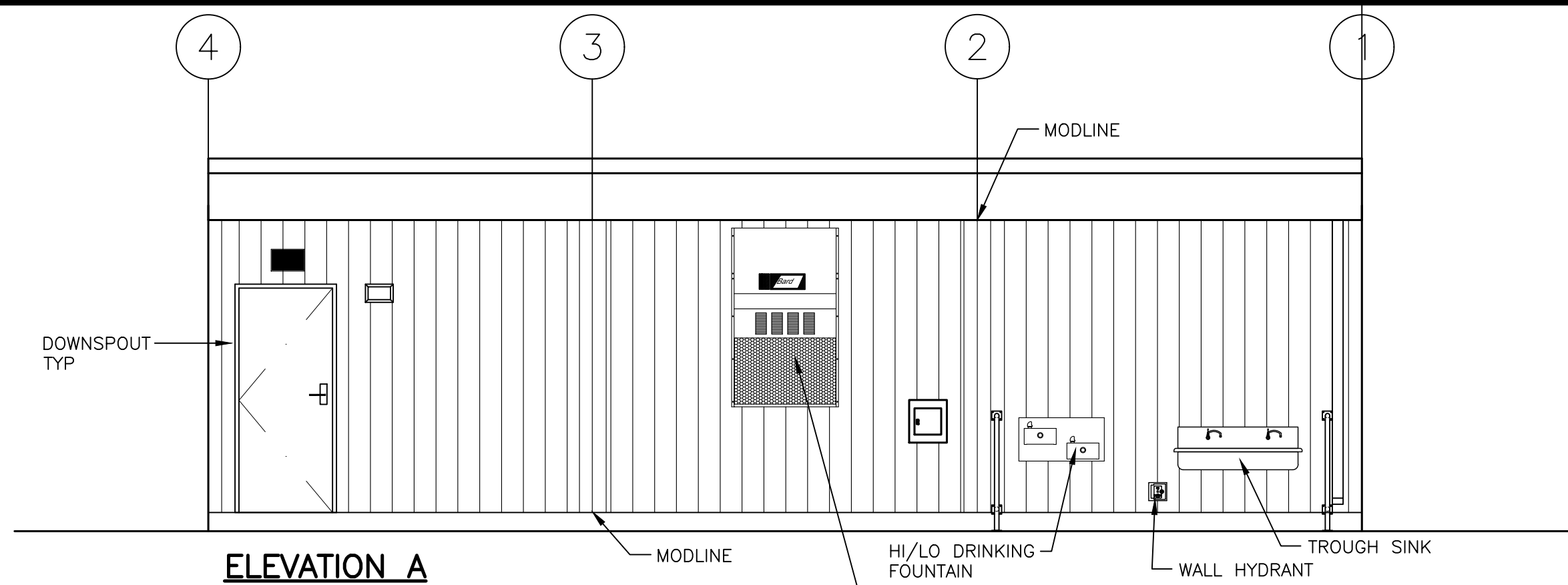
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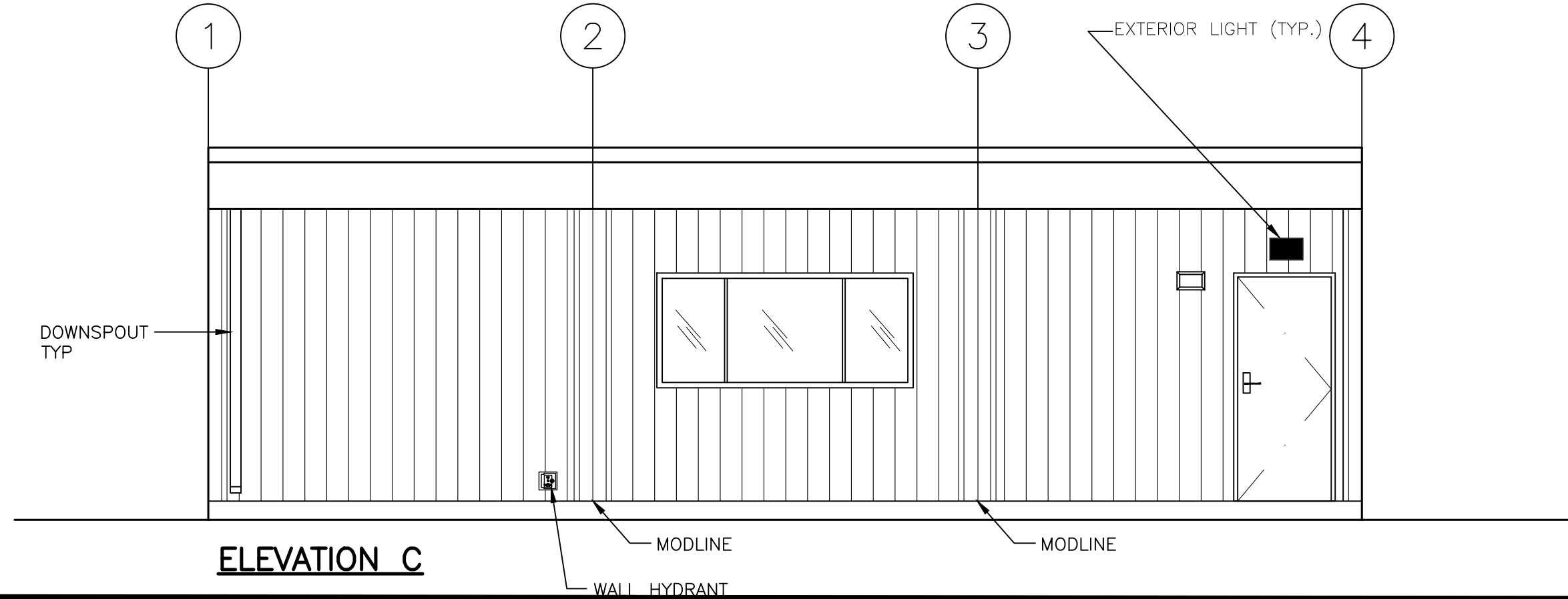
SHEET NUMBER

**A2.1B-PS**

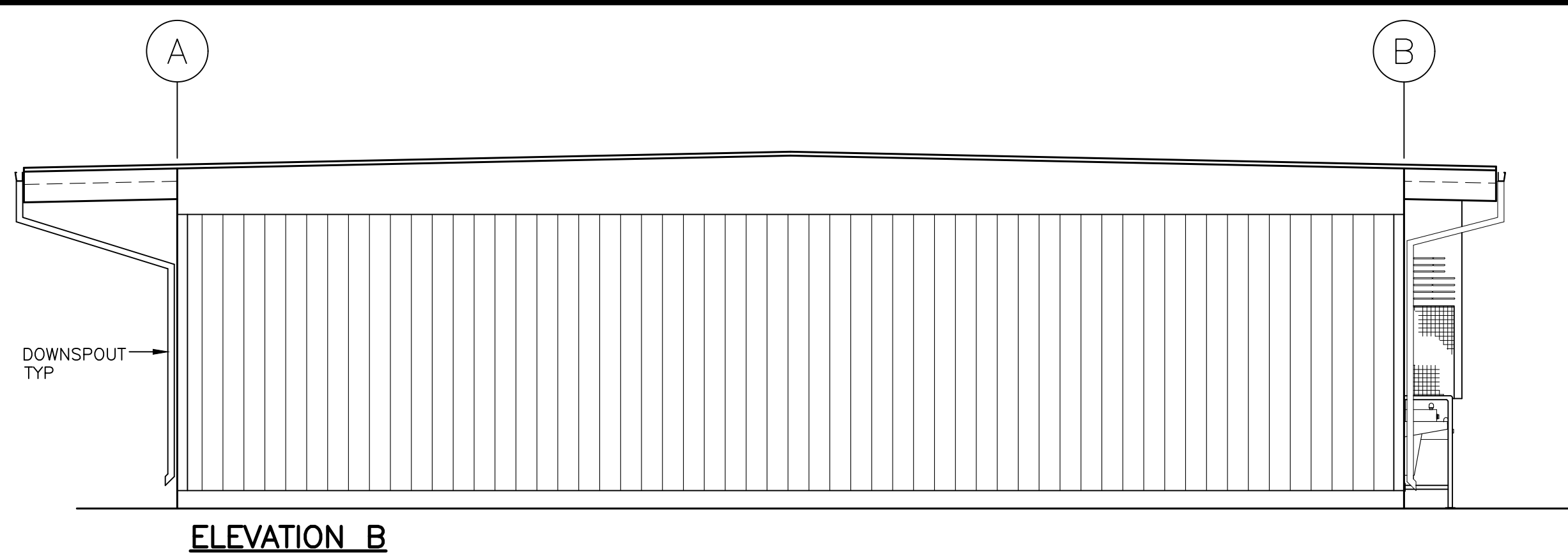




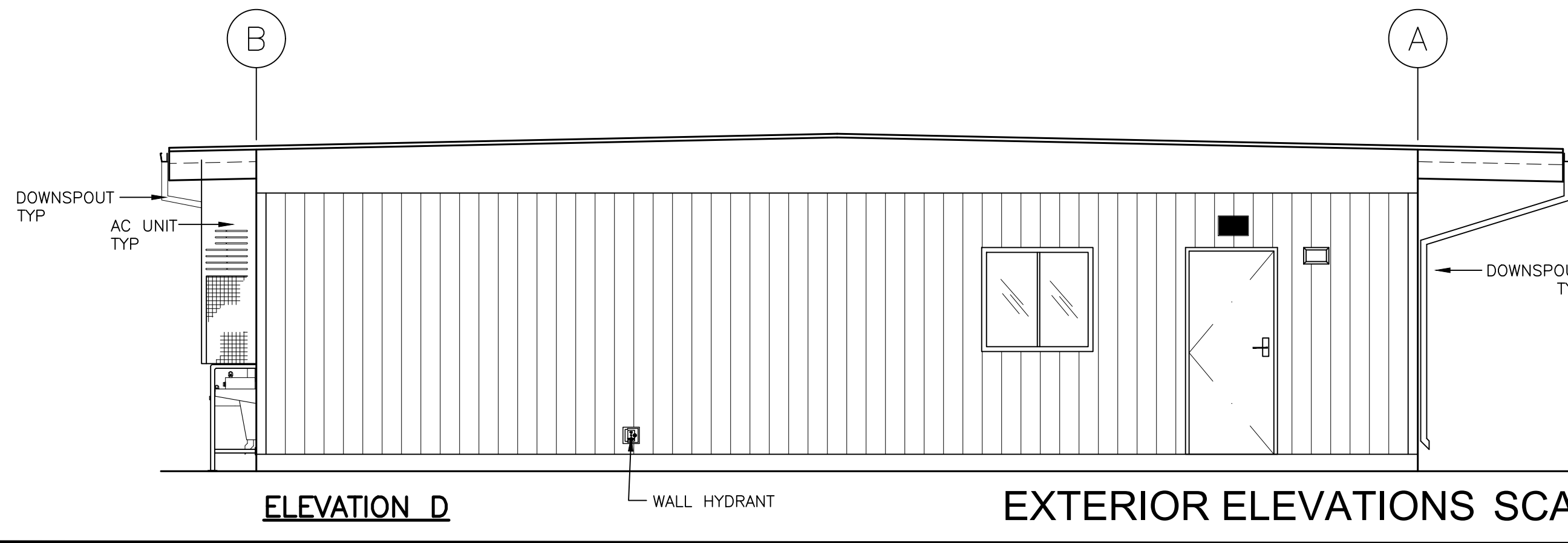
ELEVATION A



ELEVATION C

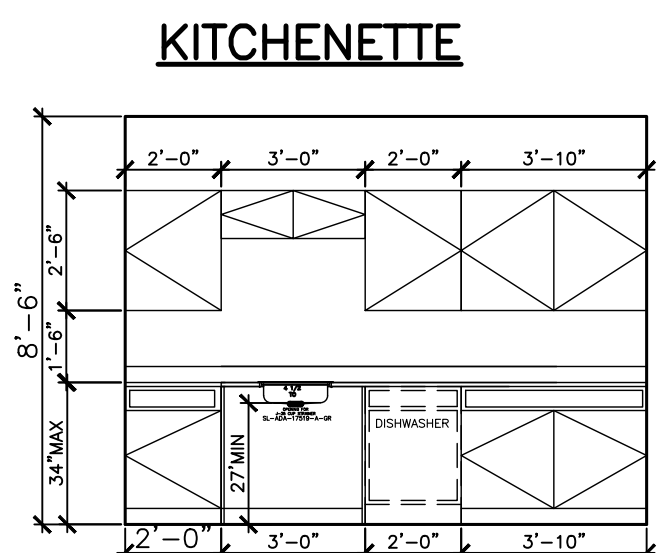


ELEVATION B

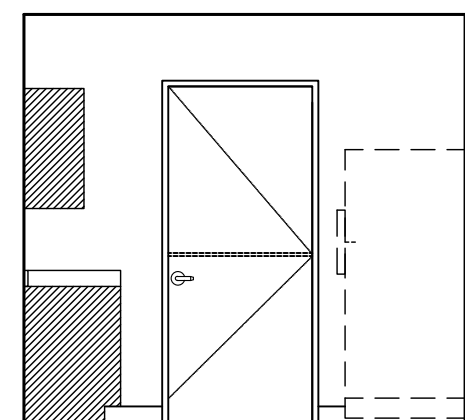


ELEVATION D

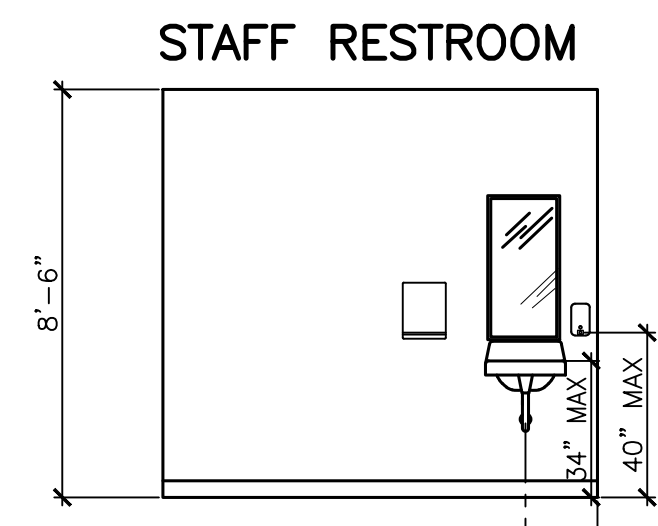
EXTERIOR ELEVATIONS SCALE: 1/4"=1'-0"



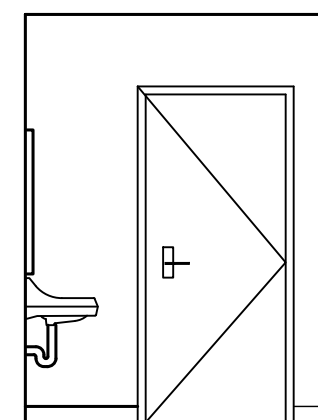
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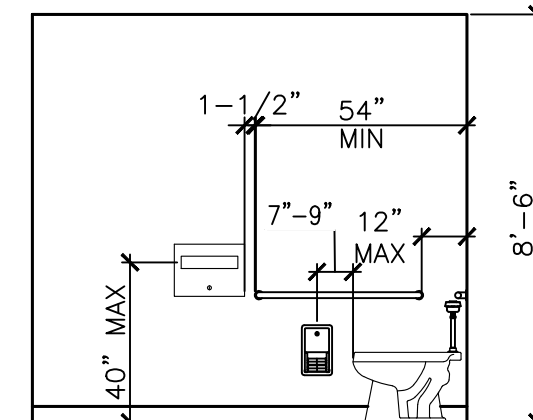
ELEVATION 2



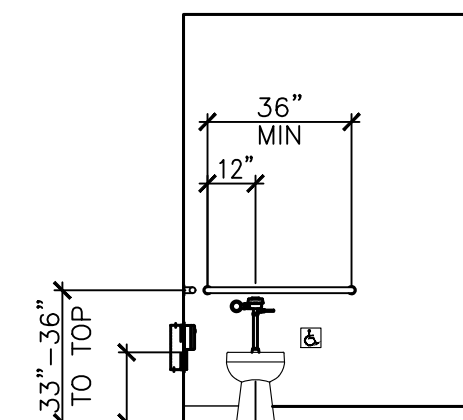
ELEVATION 1



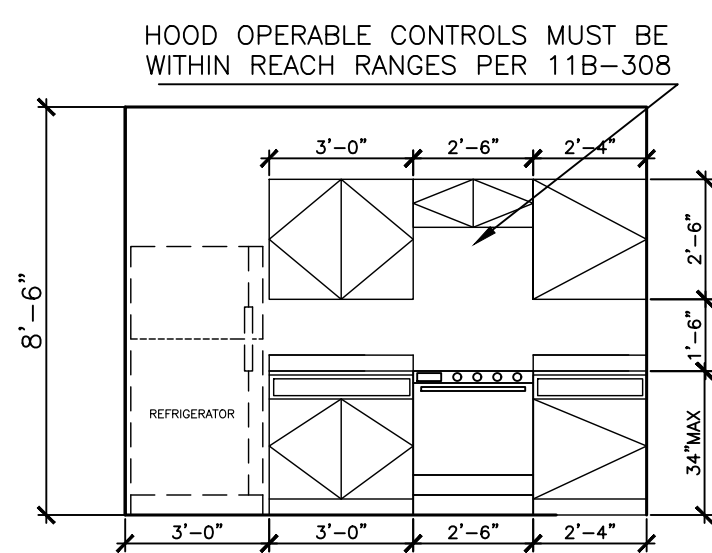
ELEVATION 2



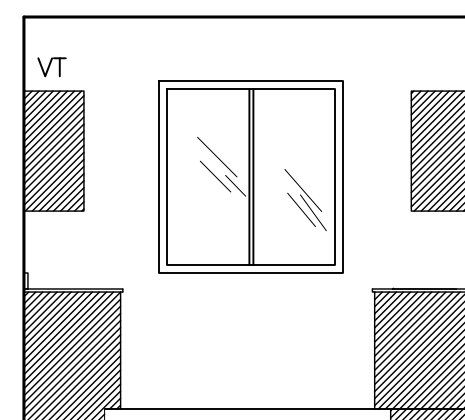
ELEVATION 3



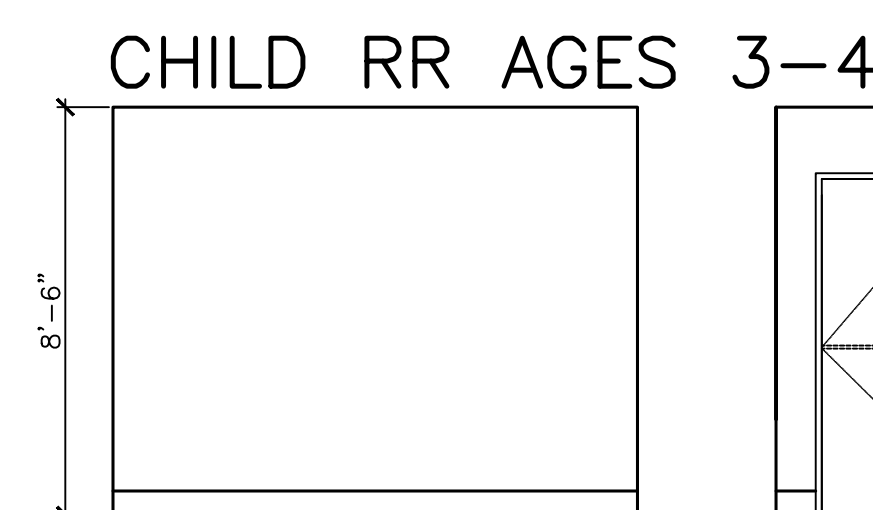
ELEVATION 4



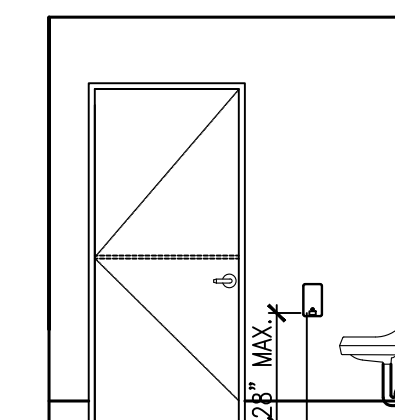
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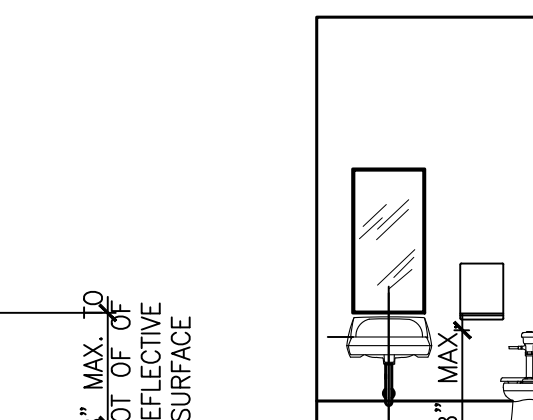
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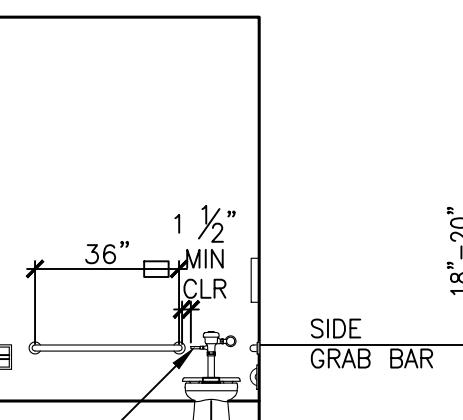
ELEVATION 1



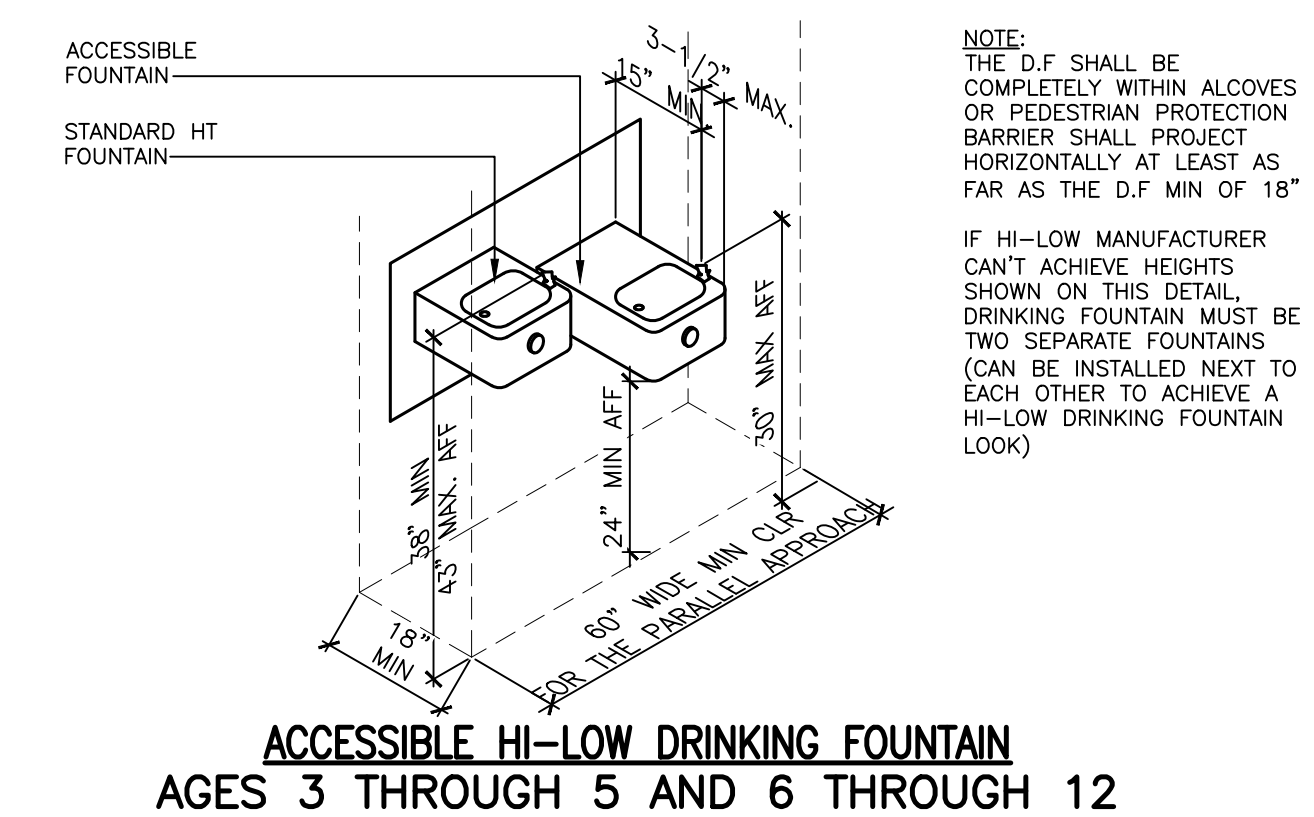
ELEVATION 2



ELEVATION 3

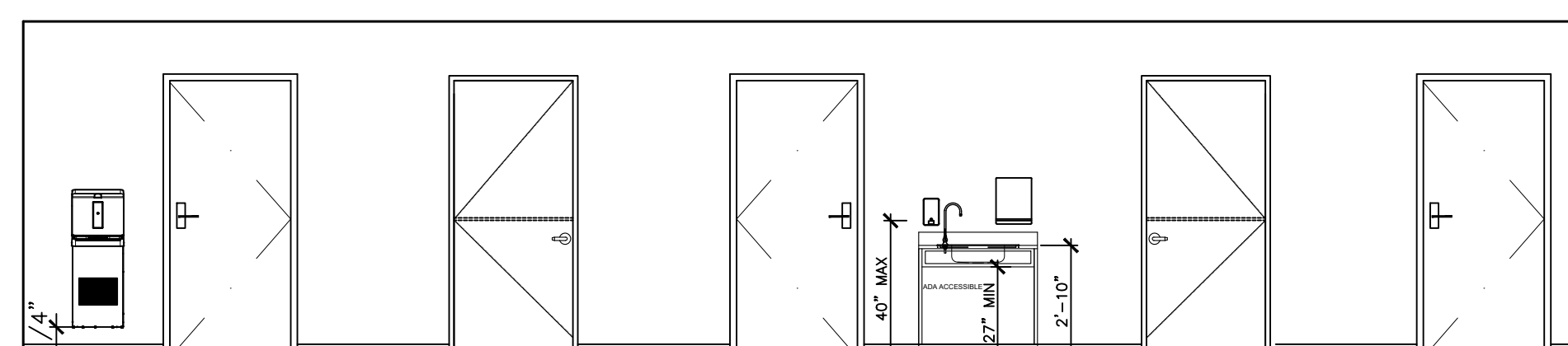


ELEVATION 4



ACCESSIBLE HI-LOW DRINKING FOUNTAIN  
AGES 3 THROUGH 5 AND 6 THROUGH 12

OPEN AREA



SOUTH WALL

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

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120552 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022

**GLOBAL MODULAR**  
INCORPORATED

**AURA MODTECH**  
DESIGNS

CONTRACTORS LICENSE #837357  
NORTHERN CALIFORNIA DIVISION  
450 COMMERCE AVE  
ATWATER, CA 95301  
PHONE: (209) 676-8029  
FAX: (209) 676-8067  
WEBSITE: WWW.GDM.NET

SOUTHERN CALIFORNIA DIVISION  
1860 CHICAGO AVE., SUITE 1-7  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3666  
WEBSITE: WWW.GDM.NET

PROJECT NAME: 36'X40'  
MERCED COLLEGE  
LOS BANOS DAY CARE  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:  
  
EXTERIOR AND  
INTERIOR ELEVATIONS.  
  
BUILDING D

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC  
  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS  
REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

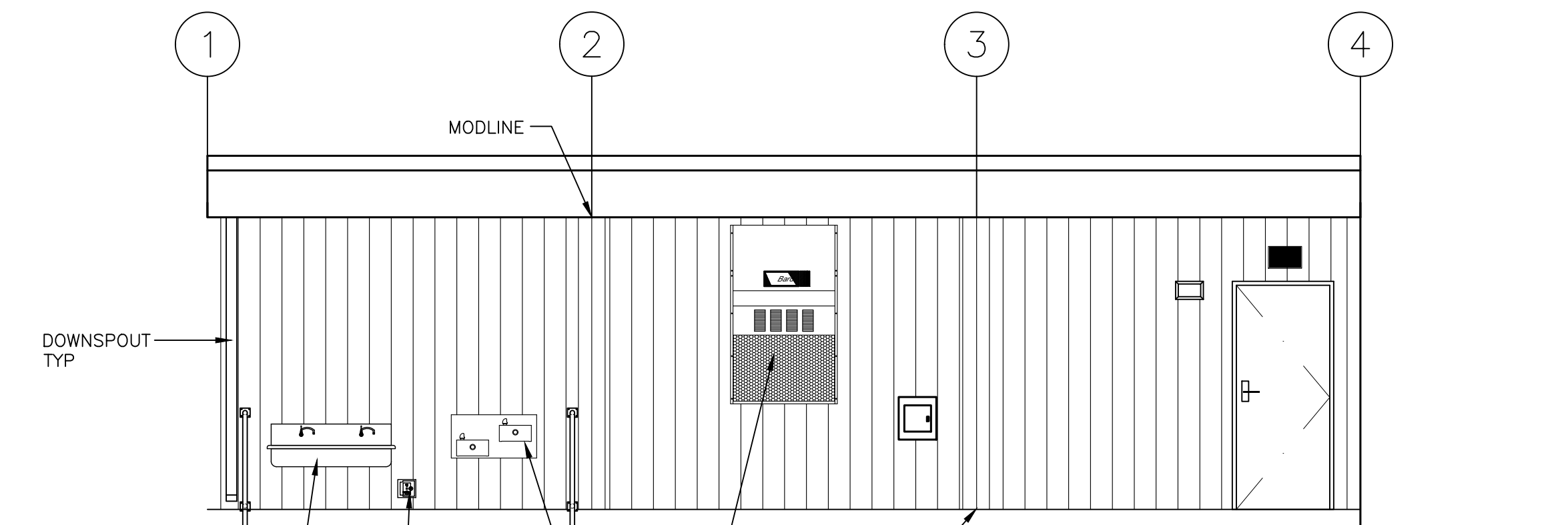
ARCHITECT OF RECORD

REVISIONS  
1. ☒ 1. ☒ 1. ☒ 1. ☒

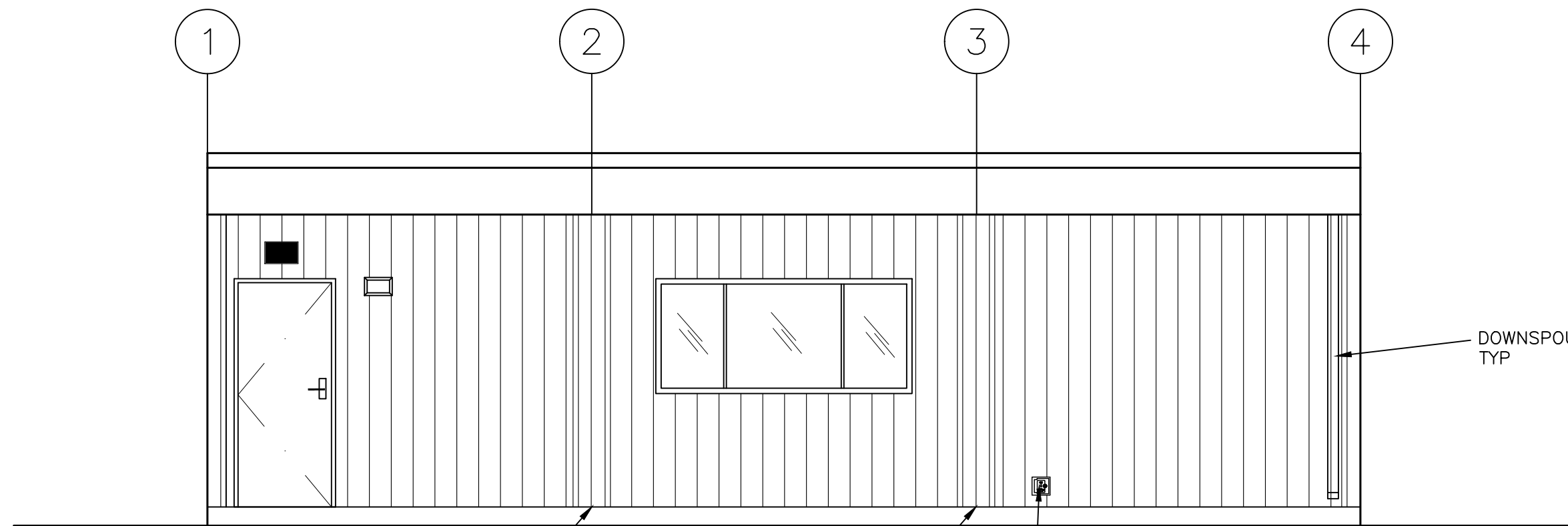
PROJECT NO.:  
DRAWN BY:  
SCALE: AS NOTED  
DATE: 09.20.22  
SHEET NUMBER

**A5.1A-PS**

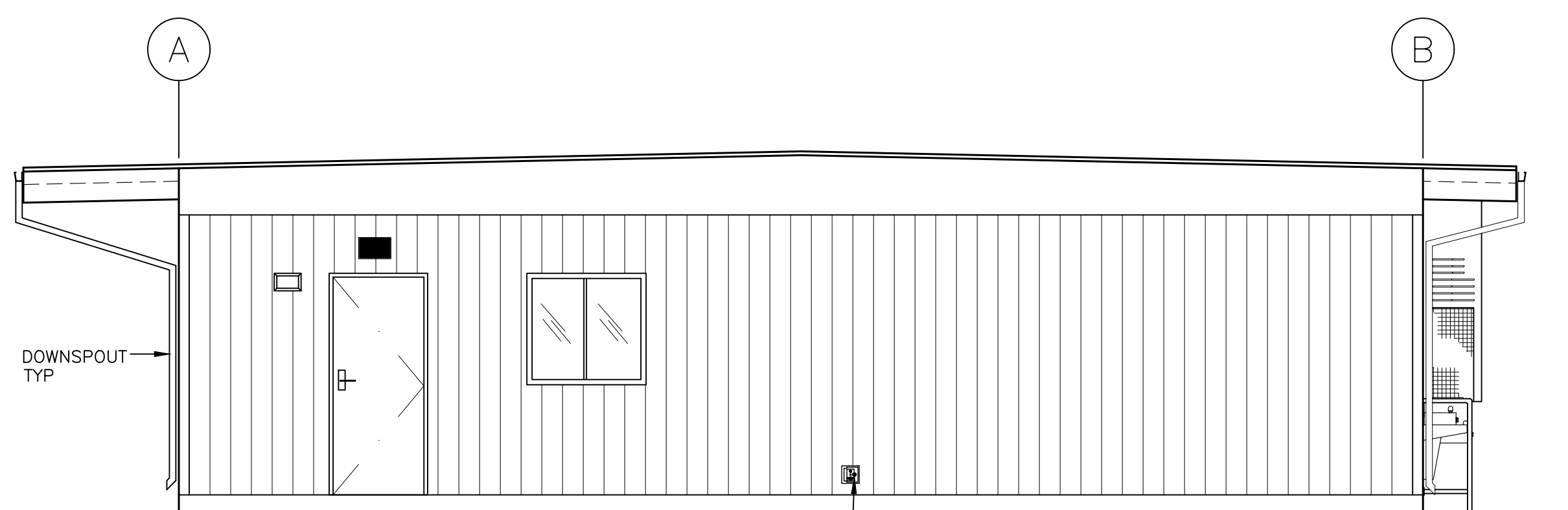




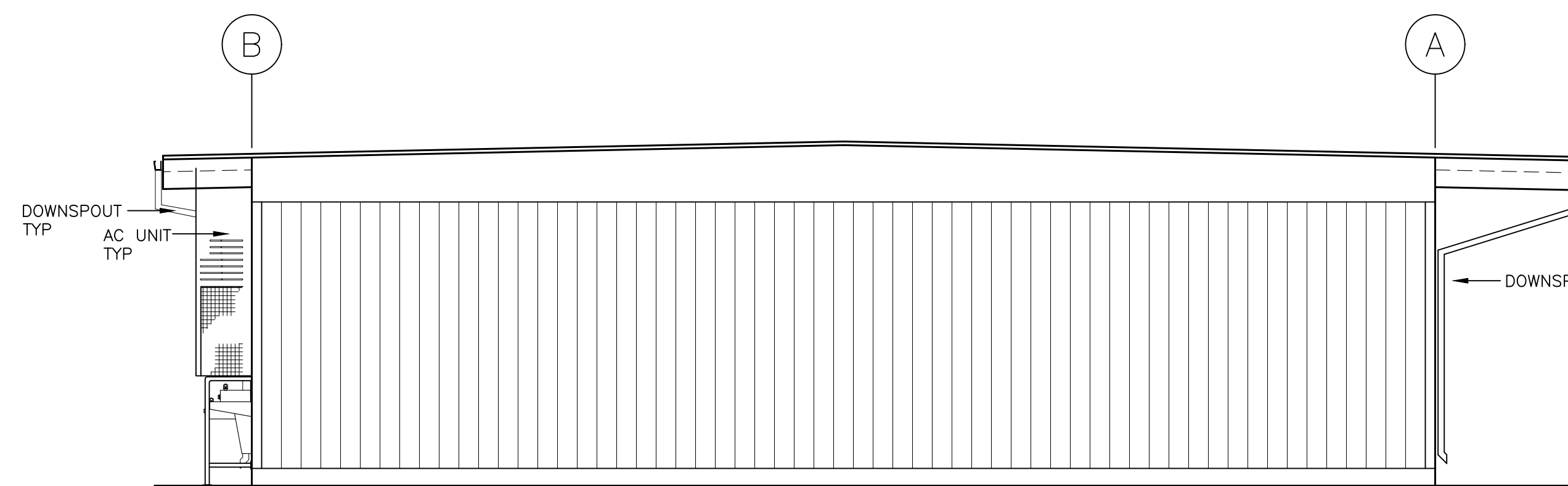
ELEVATION A



ELEVATION C



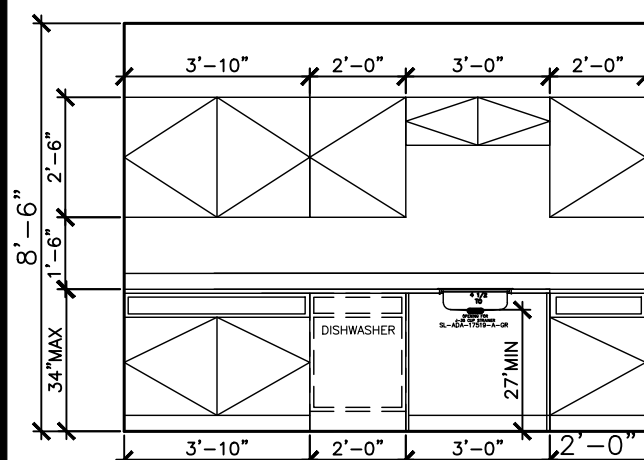
ELEVATION B



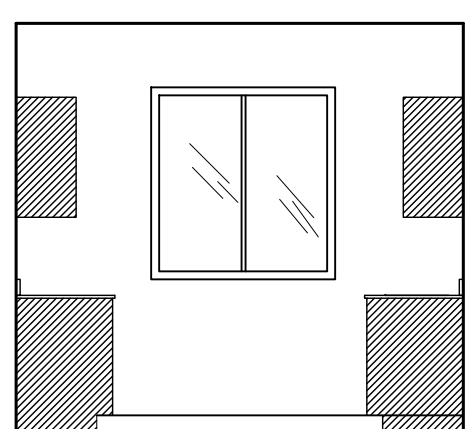
ELEVATION D

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

KITCHENETTE

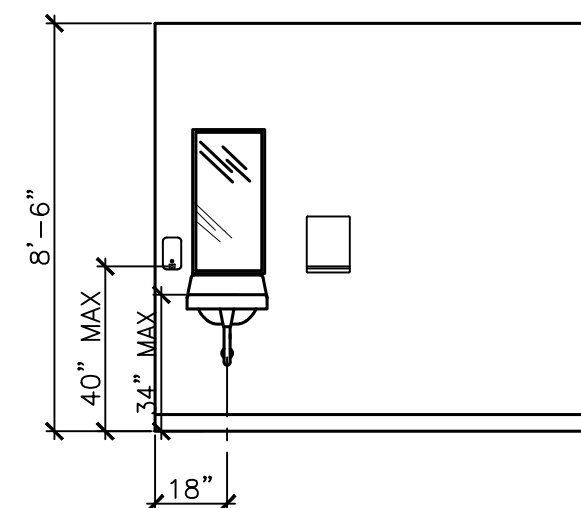


ELEVATION 1

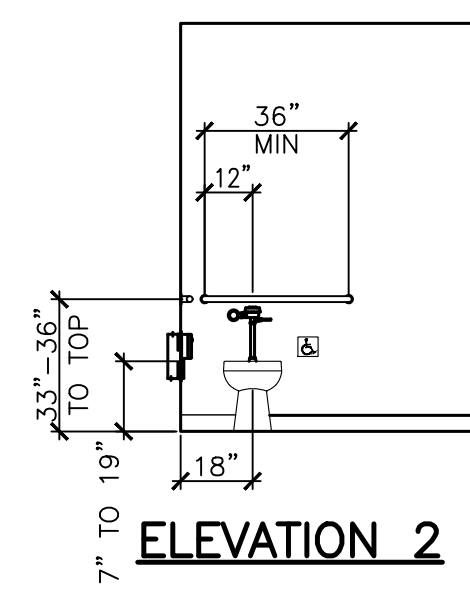


ELEVATION 2

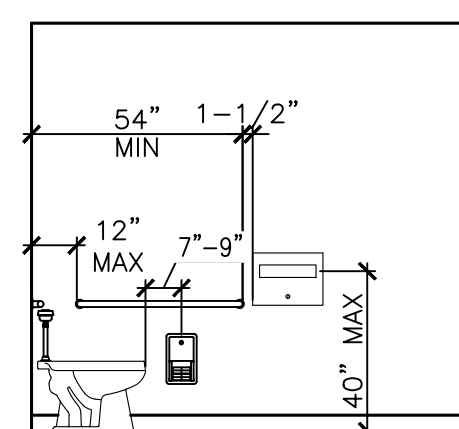
STAFF RESTROOM



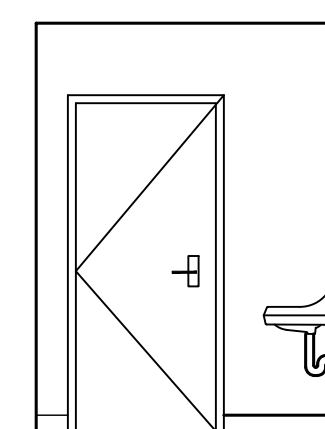
ELEVATION 1



ELEVATION 2

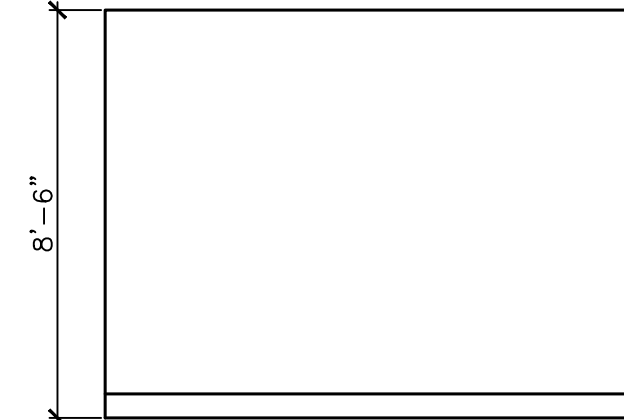


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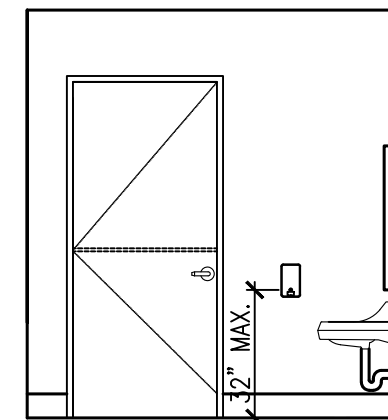


ELEVATION 4

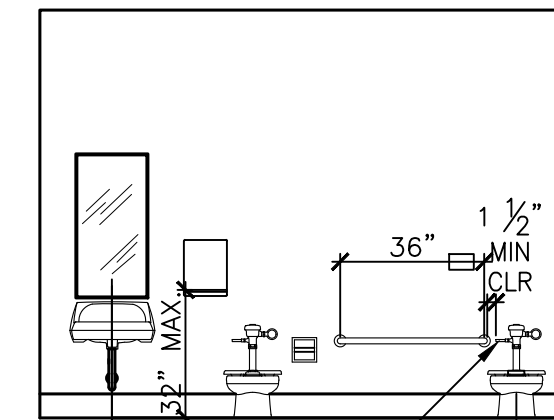
CHILD RR AGES 5-8



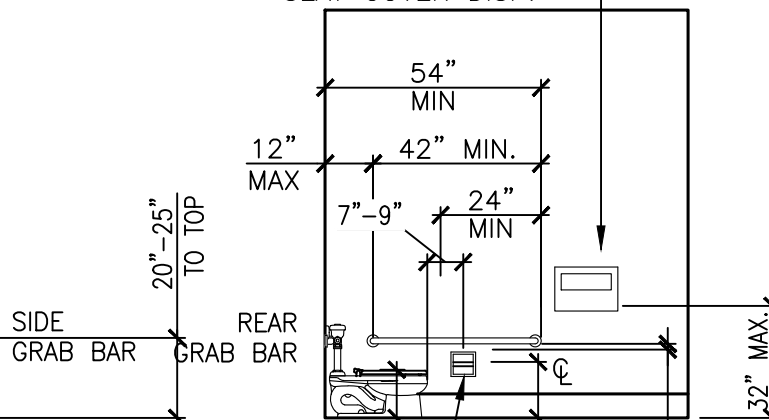
ELEVATION 1



ELEVATION 2

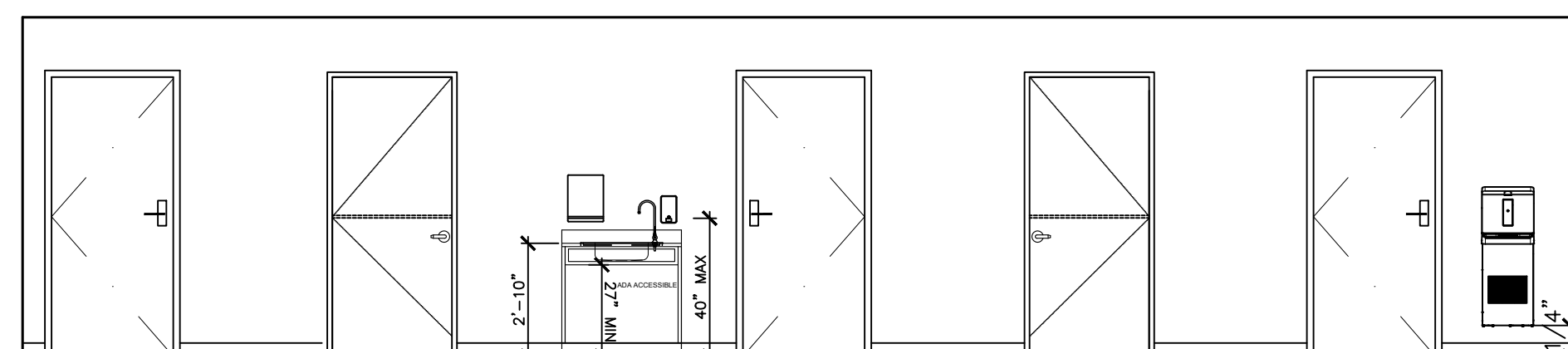


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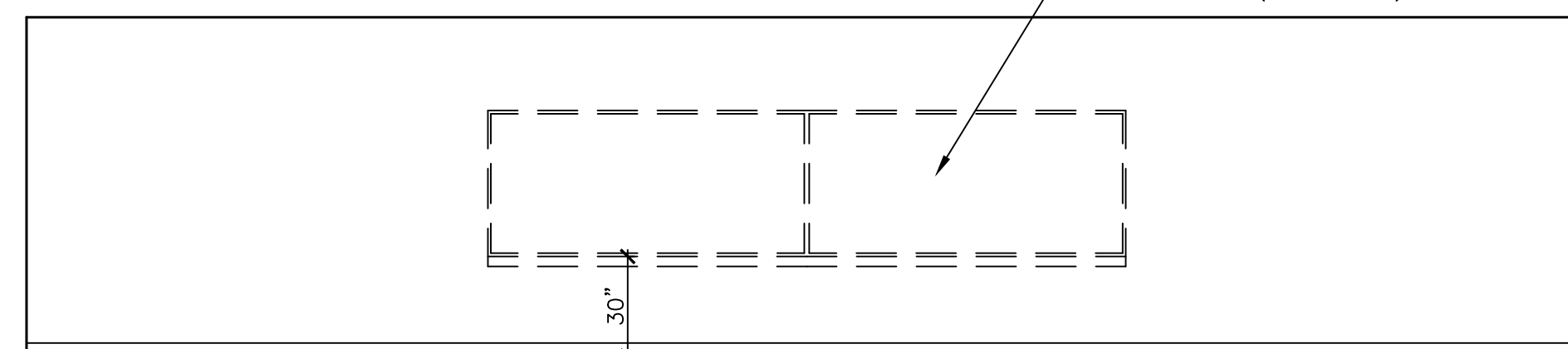


ELEVATION 4

OPEN AREA

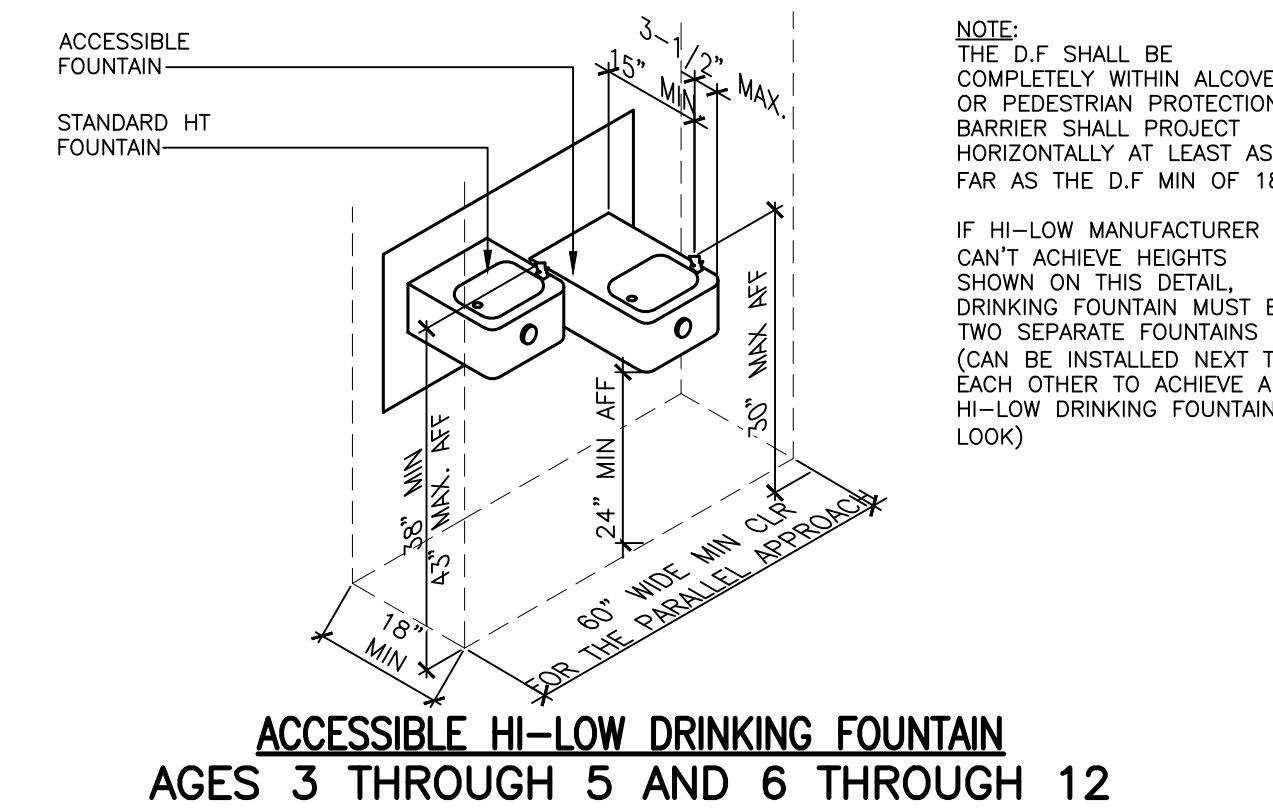


NORTH WALL



SOUTH WALL

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



1

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120552 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022

GLOBAL MODULAR  
INCORPORATED

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

NORTHERN CALIFORNIA DIVISION  
450 COMMERCIAL AVE., SUITE 1-7  
ATWATER, CA 95301  
PHONE: (209) 676-8029  
FAX: (209) 676-8067  
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SOUTHERN CALIFORNIA DIVISION  
1860 CHICAGO AVE., SUITE 1-7  
RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3668  
WEBSITE: WWW.GDMV.NET

PROJECT NAME: 36'X40'  
MERCED COLLEGE  
LOS BANOS DAY CARE  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:

EXTERIOR AND  
INTERIOR ELEVATIONS.

BUILDING E

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS  
REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

REGISTERED ARCHITECT  
ROBERT ESPINOZA  
C-14456  
2/2023  
STATE OF CALIFORNIA

ARCHITECT OF RECORD

REVISIONS

PROJECT NO.:

DRAWN BY:

SCALE: AS NOTED

DATE: 09.20.22

SHEET NUMBER

A5.1B-PS





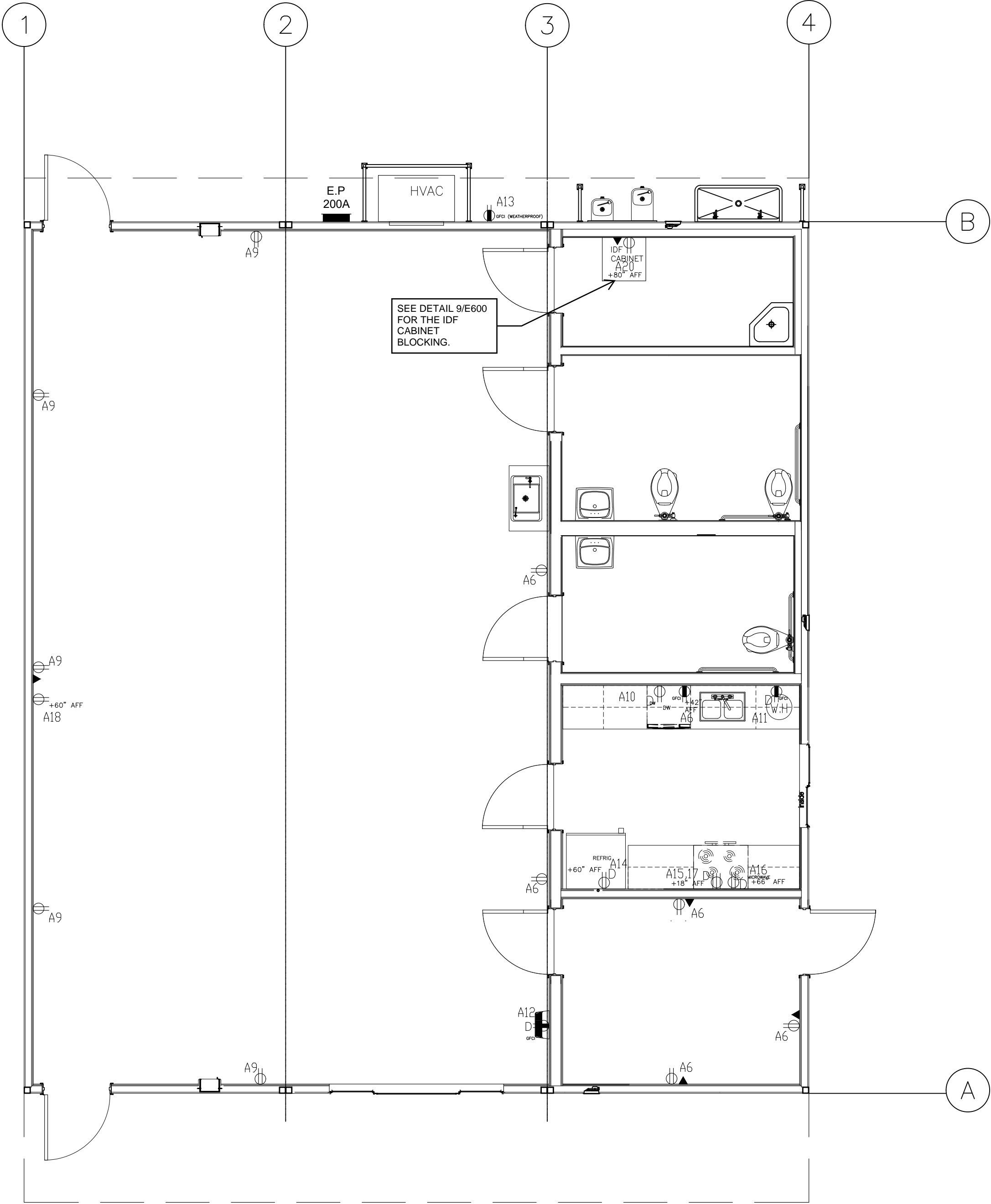


PANEL BUILDING E									
Rated Amps: 200		Volts: 120/240							
Interior: _____		Phase / Wire: 1 PHASE/3 WIRE							
Exterior: _____		Flush: _____							
NEMA Rated: _____		Surface: _____							
Description	Load	Ckt	Bkr			Ckt	Bkr	Load	
MAIN BREAKER		2							
			150						
HVAC 5 TON	5175	2	1	2	1	20	939	LIGHTS	
HVAC 5 TON	5175	60	3	4	1	20	939	LIGHTS	
HEAT STRIP	2990	2	5	6	1	20	1080	RECEPTACLES	
HEAT STRIP	2990	30	7	8	1	20	900	RECEPTACLES	
RECEPTACLES	900	1	9	10	1	20	1100	DED DSH WASHER	
DED WATER HEATER	1500	1	11	12	1	20	1350	DED WATER BOTTLE FILLER	
HVAC GFCI	180	1	13	14	1	20	1440	REFRIGERATOR	
RANGE / OVEN	4792	2	15	16	1	20	1000	MICROWAVE	
RANGE / OVEN	4792	40	17	18	1	20	180	DED SMART BOARD	
SPACE		1	19	20	1	20	180	IDF CABINET	
SPACE		1	21	22	1	20	180	FIRE ALARM	
18776 + 18646 + 9355 = 46777		240		195					
Watts		Watts		Watts (25%)		Watts		Voltage	
								Amps Per Phase	

\* CIRCUIT BREAKER TO BE ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS  
\* FIRE ALARM BREAKER IS RED AND EQUIPPED W/LOCKOUT DEVICE.

SYMBOL LEGEND

	2'x4' FLUORESCENT DROP IN LIGHT FIXTURE T-8		DIM DIMMER SWITCH +44" AFF BOT OF BOX (U.N.O.) LEVITON DS710-10Z 120/277V
	AC ELECTRONICS AC106 37W 120/277V EXTERIOR WALL MOUNT LED WALLPACK FIXTURE WITH 90 MIN EMERGENCY BACK UP PS1055LCP		EXIT (RED)/ EMERGENCY LIGHT WITH 90 MIN BATTERY BACK UP LITHONIA LHQM-LED-R-HO 4.3W
	OCCUPANCY SENSOR CEILING MOUNTED (LIGHTING) LEVITON OSC10-MOW LEVITON OSC20-MOW		UCD UNDERCUT DOOR
	CEILING MOUNTED PROJECTOR		RETURN AIR REGISTER EXCELSIOR 710S ANGLE STACK BOOT
	AUDIOVISUAL		VOLUME AIR DAMPER
	DUPLEX RECEPTACLE +15" AFF BOT OF BOX (U.N.O.)		CEILING MOUNTED SPEAKER
	DUPLEX RECEPTACLE/ GFCI +15" AFF BOT OF BOX (U.N.O.)		WALL MOUNTED MOUNTED SPEAKER
	J-BX STUB TO ATTIC +48" AFF TOP OF BOX (U.N.O.)		OCCUPANCY SENSOR DIMMER SWITCH LEVITON OSD10-IOW
	THERMOSTAT		PC PHOTO CONTROL SWITCH LEVITON ODCOP-DOW
	TELEPHONE (J-BX) STUB TO ATTIC		WALL HYDRANT
	DATA (J-BX) STUB TO ATTIC		
	FIRE EXTINGUISHER +48" MAX A.F.F TO F.E HANDLE.		
	SUPPLY AIR REGISTER PERFORATED FACE		



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

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120552 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022

GLOBAL MODULAR  
INCORPORATED

AURORA MODTECH  
DESIGNS

MODULAR STRUCTURES  
INTERNATIONAL, INC.  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON  
450 COMMERCIAL AVE  
ATWATER, CA 95301  
PHONE: (209) 676-8029  
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RIVERSIDE, CA 92507  
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PROJECT NAME: 36'x40'  
MERCED COLLEGE  
LOS BANOS DAY CARE  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:  
ELECTRICAL PLAN  
BUILDING E

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS  
REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

REVISIONS

PROJECT NO.:

DRAWN BY:



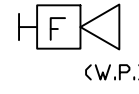



SCALE: AS NOTED

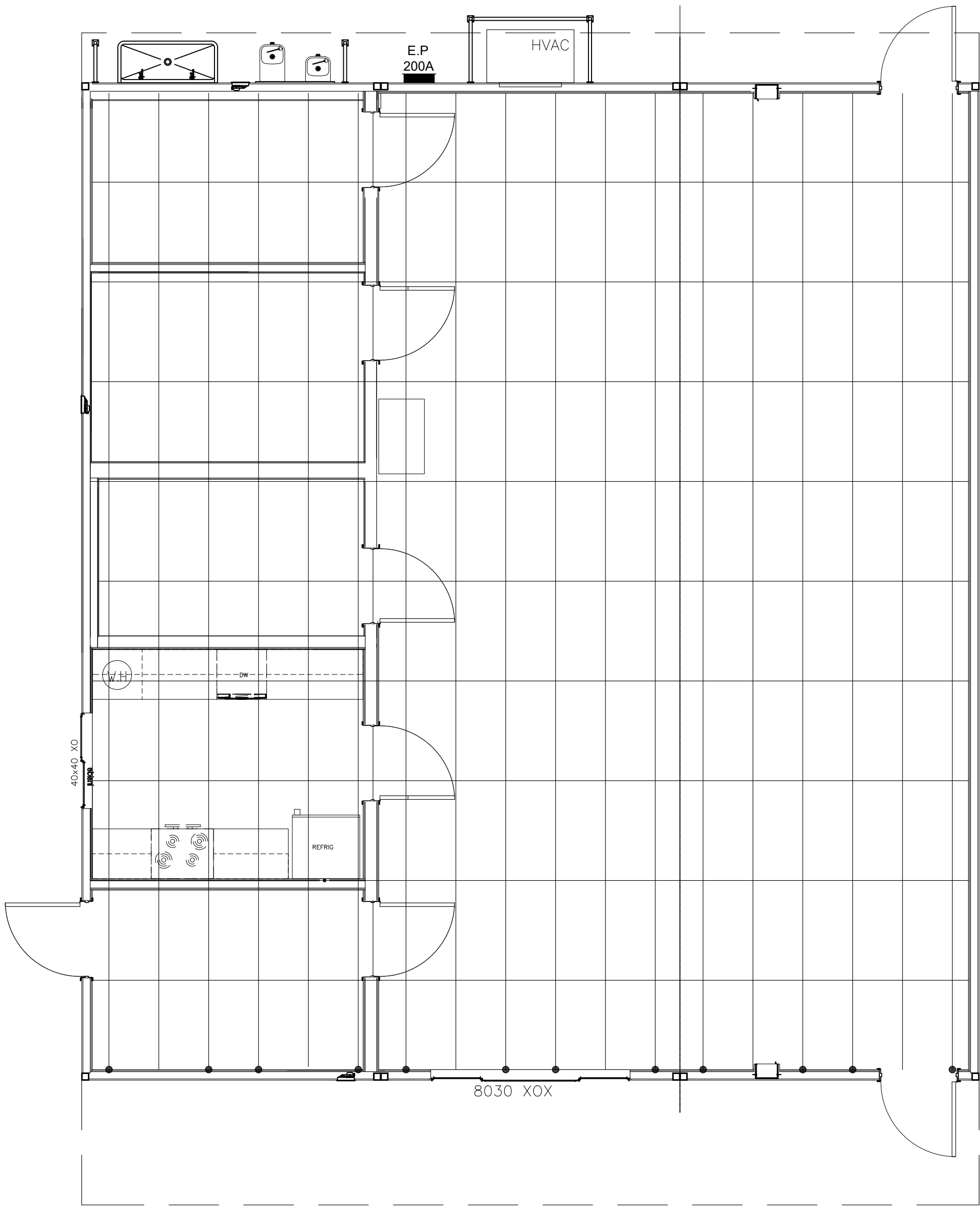
DATE: 09.20.22

SHEET NUMBER

E1.0B-PS

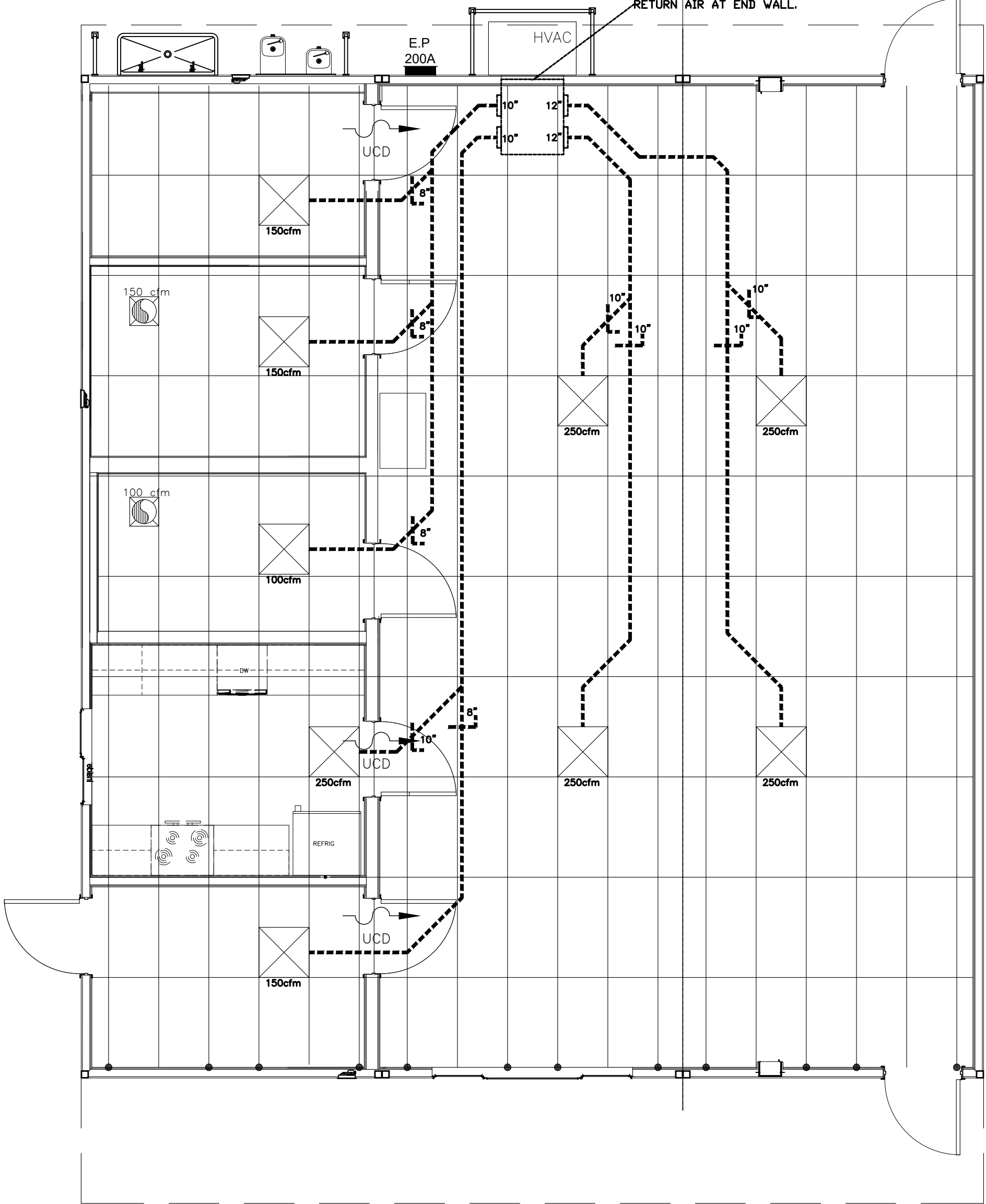


SYMBOL	DESCRIPTION
	MANUAL PULL STATION (J-BOX ONLY) MOUNT +48" A.F.F. TO CENTERLINE OF DEVICE
	WALL MOUNT FLASHING LIGHT STROBE (J-BOX ONLY) MOUNT +80"-96" A.F.F., OR 6" BELOW CEILING TO BOTTOM OF DEVICE WHICHEVER IS LOWER
	WALL MOUNT WEATHERPROOF EXTERIOR HORN (J-BOX ONLY) MOUNT +90" A.F.F. TO BOTTOM 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 ALARM PLAN SCALE: 1/4"=1'-0"

NOTE: SEE ARCHITECTURAL SHEET E200 FOR THE FIRE ALARM PLAN.



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

NOTE: SEE SHEET M-1.1-36 FOR THE HVAC AND DUCTING INFORMATION.

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120552 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022

**GLOBAL MODULAR**  
**INCORPORATED**  
**AURORA MODTECH**  
**DESIGNS**  
CONTRACTORS LICENSE #837357  
NORTHERN CALIFORNIA DIVISON  
450 COMMERCIAL AVE.  
ATWATER, CA 95301  
PHONE: (209) 676-8029  
FAX: (209) 676-8067  
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SOUTHERN CALIFORNIA DIVISON  
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PROJECT NAME: 36'X40'  
MERCED COLLEGE  
LOS BANOS DAY CARE  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:  
MECHANICAL & FIRE  
ALARM PLAN  
BUILDING D

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS  
REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD  


ARCHITECT OF RECORD



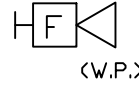



REVISIONS  
-  
-  
-  
-

PROJECT NO.:  
DRAWN BY:  
SCALE: AS NOTED  
DATE: 09.20.22  
SHEET NUMBER

M1.0A-PS



SYMBOL LEGEND

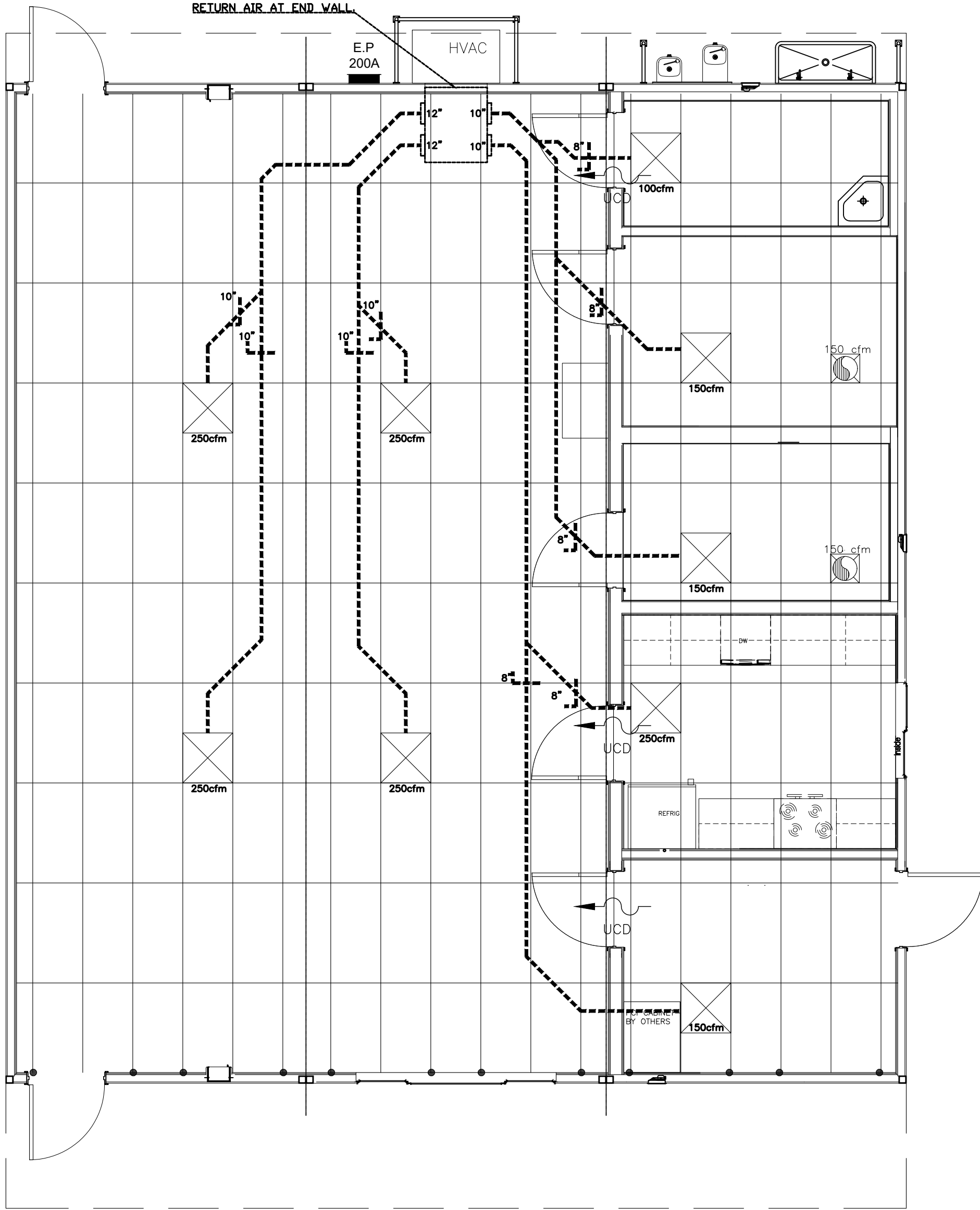
SYMBOL	DESCRIPTION
	MANUAL PULL STATION (J-BOX ONLY) MOUNT +48" A.F.F. TO CENTERLINE OF DEVICE
	WALL MOUNT FLASHING LIGHT STROBE (J-BOX ONLY) MOUNT +80"-96" A.F.F., OR 6" BELOW CEILING TO BOTTOM OF DEVICE WHICHEVER IS LOWER
 (W.P.)	WALL MOUNT WEATHERPROOF EXTERIOR HORN (J-BOX ONLY) MOUNT +90" A.F.F. 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 ALARM PLAN SCALE: 1/4"=1'-0"

NOTE: SEE ARCHITECTURAL SHEET E200 FOR THE FIRE ALARM PLAN.

NOTE: SEE SHEET M-1.1-36 FOR THE HVAC AND DUCTING INFORMATION.



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

PROJECT SPECIFIC STATE AGENCY APPROVAL

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RIVERSIDE, CA 92507  
PHONE: (951) 686-3633  
FAX: (951) 686-3666  
WEBSITE: WWW.GDMV.NET

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PROJECT NAME: 36'X40'  
MERCED COLLEGE  
LOS BANOS DAY CARE  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:  
MECHANICAL & FIRE  
ALARM PLAN  
BUILDING E

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC





A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS  
REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD














ARCHITECT OF RECORD

REVISIONS
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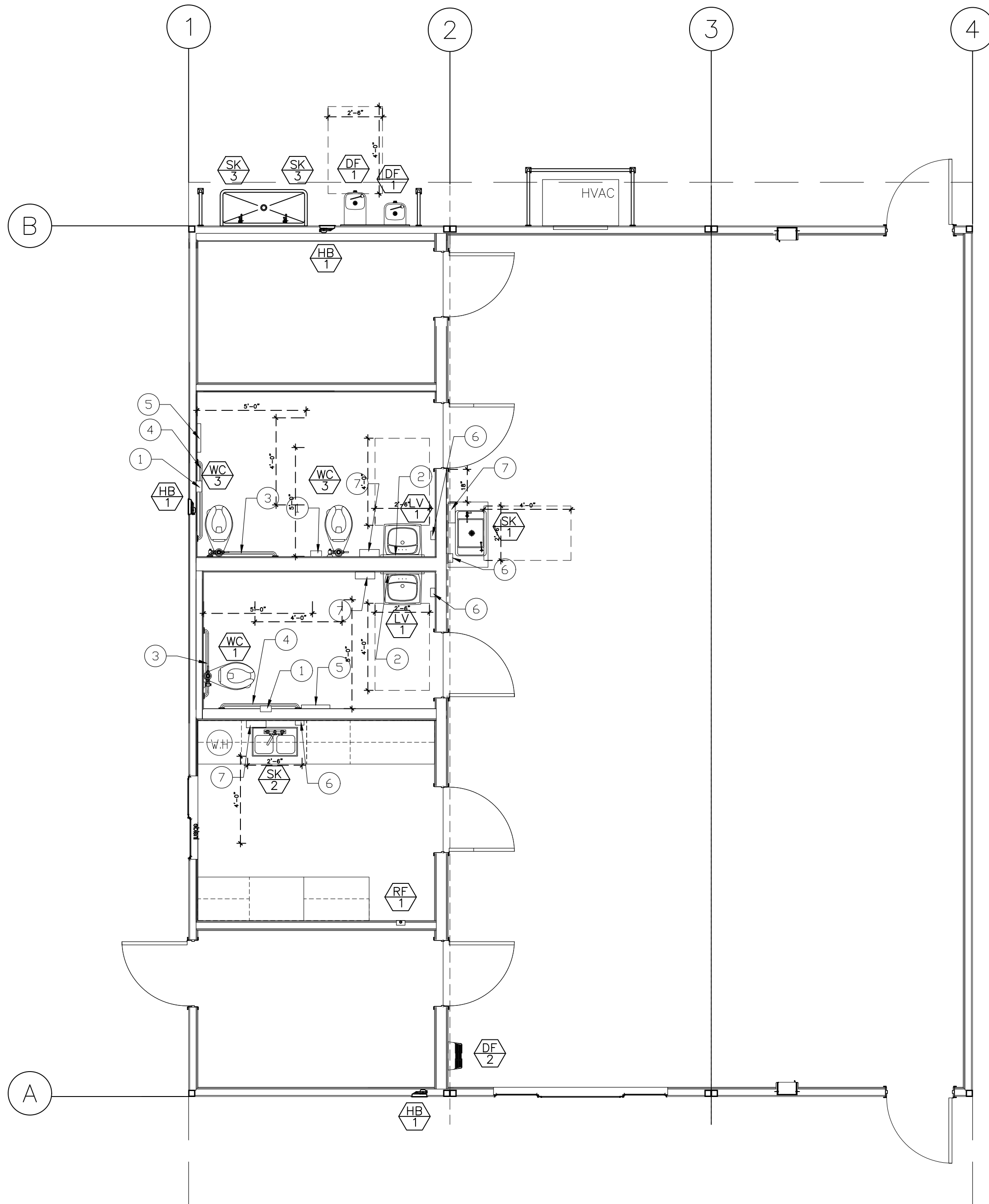
PROJECT NO.:  
DRAWN BY:  
SCALE: AS NOTED  
DATE: 09.20.22  
SHEET NUMBER

M1.0B-PS



PLUMBING FIXTURE SCHEDULE						
SYMBOL	DESCRIPTION ***ALTERNATE/OPTIONAL	ACCESSIBLE FOR	WASTE	VENT	CW	HW
	BOWL: 'KOHLER' - MODEL# K-4325, KINGSTON, WALL HUNG FLUSHOMETER. SEE PLUMB NOTE #13 FOR CARRIER INFO VALVE: 'SLOAN' - MODEL# , 111-1.28GPF FLUSHOMETER SEAT: 'BEMIS' - MODEL# 1955 SSCT, TOILET SEAT	ADULT AGES 12+	3"	2"	1"	-
	BOWL: 'KOHLER' - MODEL# K-96059 (JUVENILE ULTRA) TOP SPUD FLUSHOMETER BOWL OR EQUAL, FLOOR MOUNT VALVE: 'SLOAN' MODEL: 111-1.28 GPF OPTIONAL ELECTRONIC FLUSH VALVE: 'SLOAN' MODEL: REGAL 111 SFSM-1.28GPF SEAT: 'BEMIS' MODEL 1955SSCT, TOILET SEAT	ELEM AGES 5-8 SEE	3"	2"	1"	-
	LAV: KOHLER' - MODEL# K-2005, KINGSTON, WALL HUNG, 21-1/4" x 18-1/8" LAVATORY. 6 1/2" MAX SINK DEPTH FAUCET: 'KROWNE' - MODEL# 12-510L, SINGLE HANDLE, 1.5 GPM  COLD & HOT WATER (OPTION): WHEN REQUIRED THAT WATER NOT EXCEED 110F A TEMPERING VALVE WILL BE ADDED BEFORE FAUCET.	ALL AGES	2"	3"	1/2"	1/2"
	SINK: 'ELKAY' - MODEL# DRKAD251750C, 25"x17", 18 GA TOP MOUNT, SS CLASSROOM SINK. SINK DEPTH: 5" MAX. ACTUAL SINK DEPTH SHALL BE VERIFIED ON PROJECT SPECIFIC FAUCET: 'KROWNE' - MODEL# 15-512L, THREE HOLE FAUCET 2 GPM BUBBLER: 'JUST MANUFACTURING COMPANY' - MODEL# JSB-10 LEAD FREE BUBBLER NOTE: SPOUT HEIGHT SHALL BE NO MORE THAN 2" HIGH TO CONFORM WITH APPLICABLE CODE WHEN INSTALLED ON A CLASSROOM SINK COUNTER	ALL AGES	2"	2"	1/2"	1/2"
	SINK: 'JUST' - MODEL# DL-ADA-1625-A-GR, 25x16, 18 GA TOP MOUNT, SS CLASSROOM SINK. STRAINER J35 SINK DEPTH: 6 1/2" MAX. ACTUAL SINK DEPTH SHALL BE VERIFIED ON PROJECT SPECIFIC FAUCET: 'KROWNE' - MODEL# 15-512L, THREE HOLE FAUCET 2 GPM	ALL AGES	2"	2"	1/2"	1/2"
	WASH-UP SINK: 'JUST MANUFACTURING' - MODEL# J-4820, WALL MOUNTED HAND WASH TROUGH FAUCET: 'CENTRAL BRASS' - MODEL# 0398-ULED, CHROME, SINGLE HOLE, WALL MOUNT	ALL AGES	1 1/4"	1 1/4"	1/2"	-
	DRINKING FOUNTAIN WALL MOUNTED: 'HAWS' - MODEL# 1119, ADA, SINGLE USE FOUNTAIN	ALL AGES	1 1/4"	1 1/4"	1/2"	-
	WALL-MOUNT FILTERED ADA BOTTLE FILLER: 'HAWS' - MODEL# 1210SF, ADA ELECTRICAL REQUIREMENTS: 115V, 60Hz, 350W, 5A	ALL AGES	2"	1 1/2"	1/2"	-
	ICE MAKER OUTLET BOXES: 'OATEY' - MODEL# 38574, 6"x6"x3 3/8", 1/4 TURN BRASS BALL VALVE COPPER SWEAT	-	-	-	-	-
	HOSE BIB: 'ZURN' - MODEL# Z1350-EZ, 3/4" FPT X 3/4" HOSE CONNECTION	-	-	-	3/4"	-
	HAMMER ARRESTOR: SIOUX CHIEF #652					
NOTE: NON-ACCESSIBLE (STANDARD) MOUNTING HEIGHTS FOR ADULT FIXTURES SHALL BE THE FOLLOWING: TOILET SEAT HEIGHT- 15" AFF						

PLUMBING ACCESSORIES SCHEDULE	
REF. NUMBER	MODEL AND DESCRIPTION (**ALTERNATE/OPTIONAL)
1	MULTI-ROLL RECESSED TOILET PAPER DISP AT ACCESSIBLE STALL, 'BOBRICK' B-3888 OR APPROVED EQUAL 3" MAX PROJ. BY MANUF <input type="checkbox"/> BY DISTRICT <input type="checkbox"/>
2	MIRROR (18" x 36") 'BOBRICK' B-165, 1836 SERIES OR APPROVED EQUAL BY MANUF <input type="checkbox"/> BY DISTRICT <input type="checkbox"/>
3	GRAB BAR (REAR) 'BOBTICK' B-6806, 36" SS FOR USE AT REAR GRAB BAR EXCEPTION 'BOBRICK' B-6806, 24" SS BY MANUF <input type="checkbox"/> BY DISTRICT <input type="checkbox"/>
4	GRAB BAR (SIDE) 'BOBRICK' B-6806, 42" SS BY MANUF <input type="checkbox"/> BY DISTRICT <input type="checkbox"/>
5	TOILET SEAT COVER DISP. SURFACE MOUNT. 'BOBRICK' B-221 OR APPROVED EQUAL BY MANUF <input type="checkbox"/> BY DISTRICT <input checked="" type="checkbox"/>
6	SOAP DISPENSER SURFACE MOUNT. 'BOBRICK' B-2111 OR APPROVED EQUAL, BY MANUF <input type="checkbox"/> BY DISTRICT <input checked="" type="checkbox"/>
7	PAPER TOWEL DISPENSER 'BOBRICK' B-262 OR APPROVED EQUAL, SURFACE MOUNT, 4" MAX PROJ BY MANUF <input type="checkbox"/> BY DISTRICT <input checked="" type="checkbox"/>



#### CHILDREN'S WATER CLOSET HEIGHTS CHART

TABLE 10-2040 SUGGESTED DIMENSIONS FOR CHILDREN'S USE			
SUGGESTED DIMENSIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 THROUGH 12			
	AGES 3 AND 4	AGES 5 THROUGH 8	AGES 9 THROUGH 12
WATER CLOSET CENTERLINE	12 INCHES	12 - 15 INCHES	15 - 18 INCHES
TOILET SEAT HEIGHT	11 - 12 INCHES	12 - 15 INCHES	15 - 17 INCHES
GRAB BAR HEIGHT	18 - 20 INCHES	20 - 25 INCHES	25 - 27 INCHES
TOILET PAPER DISPENSER HEIGHT	14 INCHES	14 - 17 INCHES	17 - 18 INCHES
LAVATORY RIM HEIGHT	22 INCHES	24 INCHES	26 INCHES
SOAP, PAPER TOWEL, SEAT COVER DISP. HT.	28 INCHES	32 INCHES	36 INCHES

PROJECT SPECIFIC HEIGHT USE:  
TO BE CHECKED OFF WHEN PREPARING PROJECT SPECIFIC DRAWINGS SET.

- ☒ ADULT
- ☒ CHILDREN AGES 5 THROUGH 8

PLUMBING PLAN

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

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120552 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022

**GLOBAL MODULAR**  
*INCORPORATED*  
**AURORA MODTECH**  
*DESIGNS*  
CONTRACTORS LICENSE #837357  
NORTHERN CALIFORNIA DIVISION  
450 COMMERCE AVE  
ATWATER, CA 95301  
PHONE: (209) 676-8029  
FAX: (209) 676-8047  
WEBSITE: WWW.GDM.NET  
SOUTHERN CALIFORNIA DIVISION  
1850 CHICAGO AVE., SUITE 1-7  
RIVERSIDE, CA 92507  
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PROJECT NAME: 36'x40'  
MERCED COLLEGE  
LOS BANOS DAY CARE  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:  
  
SCHEDULE &  
PLUMBING PLAN  
BUILDING D

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD  














ARCHITECT OF RECORD

REVISIONS  
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△ -  
△ -  
△ -

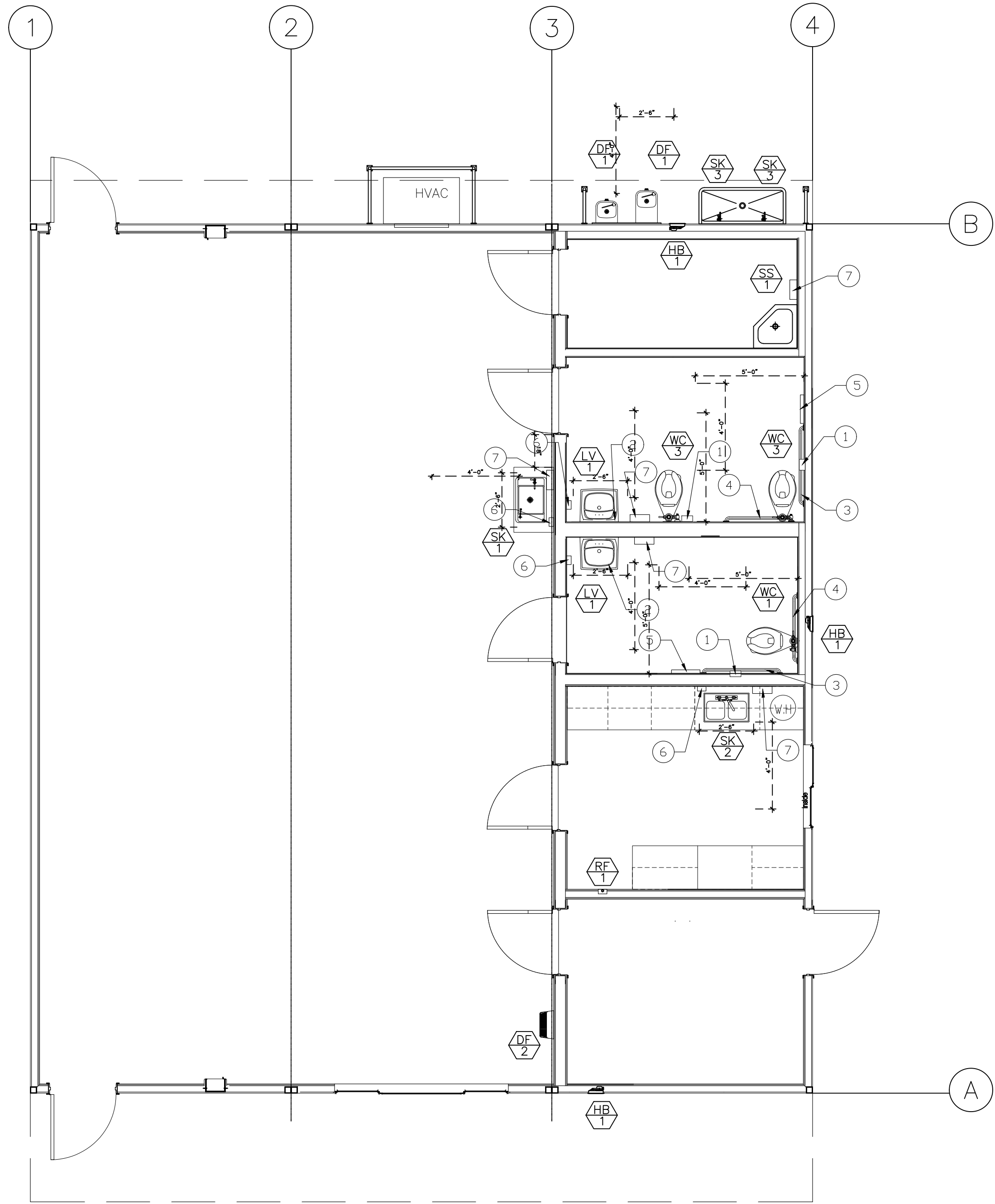
PROJECT NO.:  
DRAWN BY:  
SCALE: AS NOTED  
DATE: 09.20.22  
SHEET NUMBER

P1.0A-PS



PLUMBING FIXTURE SCHEDULE						
SYMBOL	DESCRIPTION ***ALTERNATE/OPTIONAL	ACCESSIBLE FOR	WASTE	VENT	CW	HW
	BOWL: 'KOHLER' - MODEL# K-4325, KINGSTON, WALL HUNG FLUSHOMETER. SEE PLUMB NOTE #13 FOR CARRIER INFO VALVE: 'SLOAN' - MODEL# , 111-1.28GPF FLUSHOMETER SEAT: 'BEMIS' - MODEL# 1955 SSCT, TOILET SEAT	ADULT AGES 12+	3"	2"	1"	-
	BOWL: 'KOHLER' - MODEL# K-96064, PRIMARY, FLOOR MOUNT FLUSHOMETER VALVE: 'SLOAN' - MODEL# 111-1.28 GPF, FLUSHOMETER SEAT: 'KOHLER' - MODEL# K-4686 , TOILET SEAT INCLUDED	KINDER AGES 3-4	3"	2"	1"	-
	LAV: KOHLER - MODEL# K-2005, KINGSTON, WALL HUNG, 21-1/4" x 18-1/8" LAVATORY. 6 1/2" MAX SINK DEPTH FAUCET: 'KROWNE' - MODEL# 12-510L, SINGLE HANDLE, 1.5 GPM  COLD & HOT WATER (OPTION): WHEN REQUIRED THAT WATER NOT EXCEED 110F A TEMPERING VALVE WILL BE ADDED BEFORE FAUCET.	ALL AGES	2"	3"	1/2"	1/2"
	SINK: 'ELKAY' - MODEL# DRKAD251750C, 25"X17", 18" GA TOP MOUNT, SS CLASSROOM SINK. SINK DEPTH: 5" MAX. ACTUAL SINK DEPTH SHALL BE VERIFIED ON PROJECT SPECIFIC FAUCET: 'KROWNE' - MODEL# 15-512L, THREE HOLE FAUCET 2 GPM BUBBLER: 'JUST MANUFACTURING COMPANY' - MODEL# JSB-10 LEAD FREE BUBBLER NOTE: SPOUT HEIGHT SHALL BE NO MORE THAN 2" HIGH TO CONFORM WITH APPLICABLE CODE WHEN INSTALLED ON A CLASSROOM SINK COUNTER	ALL AGES	2"	2"	1/2"	1/2"
	SINK: 'JUST' - MODEL# DL-ADA-1625-A-GR, 25x16, 18 GA TOP MOUNT, SS CLASSROOM SINK. STRAINER J35 SINK DEPTH: 6 1/2" MAX. ACTUAL SINK DEPTH SHALL BE VERIFIED ON PROJECT SPECIFIC FAUCET: 'KROWNE' - MODEL# 15-512L, THREE HOLE FAUCET 2 GPM	ALL AGES	2"	2"	1/2"	1/2"
	WASH-UP SINK: 'JUST MANUFACTURING' - MODEL# J-4820, WALL MOUNTED HAND WASH TROUGH FAUCET: 'CENTRAL BRASS' - MODEL# 0398-ULEO, CHROME, SINGLE HOLE, WALL MOUNT	ALL AGES	1 1/4"	1 1/4"	1/2"	-
	DRINKING FOUNTAIN WALL MOUNTED: 'HAWS' - MODEL# 1119, ADA, SINGLE USE FOUNTAIN	ALL AGES	1 1/4"	1 1/4"	1/2"	-
	WALL-MOUNT FILTERED ADA BOTTLE FILLER: 'HAWS' - MODEL# 1210SF, ADA ELECTRICAL REQUIREMENTS: 115V, 60Hz, 350W, 5A	ALL AGES	2"	1 1/2"	1/2"	-
	SERVICE SINK: 'FLORESTONE' - MODEL# MSR-2424, 24" X 24" X 10" MOLDED MOP RECEPTOR FAUCET: 'MOEN' - MODEL# 8230 MOP SINK FAUCET	-	2"	1 1/2"	1/2"	1/2"
	ICE MAKER OUTLET BOXES: 'OATEY' - MODEL# 38574, 6"X6"X3 3/8", 1/4 TURN BRASS BALL VALVE COPPER SWEAT	-	-	-	-	-
	HOSE BIB: 'ZURN' - MODEL# Z1350-EZ, 3/4" FPT X 3/4" HOSE CONNECTION	-	-	-	3/4"	-
	HAMMER ARRESTOR: SIOUX CHIEF #652					
NOTE: NON--ACCESSIBLE (STANDARD) MOUNTING HEIGHTS FOR ADULT FIXTURES SHALL BE THE FOLLOWING: TOILET SEAT HEIGHT- 15" AFF						

PLUMBING ACCESSORIES SCHEDULE	
REF. NUMBER	MODEL AND DESCRIPTION (**ALTERNATE/OPTIONAL)
①	MULTI-ROLL RECESSED TOILET PAPER DISP AT ACCESSIBLE STALL, 'BOBRICK' B-3888 OR APPROVED EQUAL 3" MAX PROJ. BY MANUF <input checked="" type="checkbox"/> BY DISTRICT <input type="checkbox"/>
②	MIRROR (18" x 36") 'BOBRICK' B-165, 1836 SERIES OR APPROVED EQUAL BY MANUF <input checked="" type="checkbox"/> BY DISTRICT <input type="checkbox"/>
③	GRAB BAR (REAR) 'BOBTICK' B-6806, 36" SS FOR USE AT REAR GRAB BAR EXCEPTION 'BOBRICK' B-6806, 24" SS BY MANUF <input checked="" type="checkbox"/> BY DISTRICT <input type="checkbox"/>
④	GRAB BAR (SIDE) 'BOBRICK' B-6806, 42" SS BY MANUF <input checked="" type="checkbox"/> BY DISTRICT <input type="checkbox"/>
⑤	TOILET SEAT COVER DISP. SURFACE MOUNT. 'BOBRICK' B-221 OR APPROVED EQUAL BY MANUF <input type="checkbox"/> BY DISTRICT <input checked="" type="checkbox"/>
⑥	SOAP DISPENSER SURFACE MOUNT. 'BOBRICK' B-2111 OR APPROVED EQUAL, BY MANUF <input type="checkbox"/> BY DISTRICT <input checked="" type="checkbox"/>
⑦	PAPER TOWEL DISPENSER 'BOBRICK' B-262 OR APPROVED EQUAL, SURFACE MOUNT, 4" MAX PROJ BY MANUF <input type="checkbox"/> BY DISTRICT <input checked="" type="checkbox"/>



#### CHILDREN'S WATER CLOSET HEIGHTS CHART

TABLE 1B-0040 SUGGESTED DIMENSIONS FOR CHILDREN'S USE			
SUGGESTED DIMENSIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 THROUGH 12			
WATER CLOSET CENTERLINE	AGES 3 AND 4 12 INCHES	AGES 5 THROUGH 8 12 - 15 INCHES	AGES 9 THROUGH 12 15 - 18 INCHES
TOILET SEAT HEIGHT	11 - 12 INCHES	12 - 15 INCHES	15 - 17 INCHES
GRAB BAR HEIGHT	18 - 20 INCHES	20 - 23 INCHES	25 - 27 INCHES
TOILET PAPER DISPENSER HEIGHT	14 INCHES	14 - 17 INCHES	17 - 19 INCHES
LAVATORY RIM HEIGHT	22 INCHES	24 INCHES	26 INCHES
SOAP PAPER TOWEL SEAT COVER DISP HT	28 INCHES	32 INCHES	36 INCHES

PROJECT SPECIFIC HEIGHT USE:  
TO BE CHECKED OFF WHEN PREPARING PROJECT SPECIFIC DRAWINGS SET.

☒ ADULT

☒ CHILDREN AGES 3 THROUGH 4

PLUMBING PLAN

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

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120552 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022

**GLOBAL MODULAR**  
INCORPORATED  
**AURORA MODTECH**  
DESIGNS  
CONTRACTORS LICENSE #837357  
NORTHERN CALIFORNIA DIVISION  
450 COMMERCE AVE  
ATWATER, CA 95301  
PHONE: (209) 676-8029  
FAX: (209) 676-8047  
WEBSITE: WWW.GDM.NET  
SOUTHERN CALIFORNIA DIVISION  
1860 CHICAGO AVE., SUITE 1-7  
RIVERSIDE, CA 92507  
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PROJECT NAME: 36'X40'  
MERCED COLLEGE  
LOS BANOS DAY CARE  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:  
  
SCHEDULE &  
PLUMBING PLAN  
BUILDING E

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD  


ARCHITECT OF RECORD

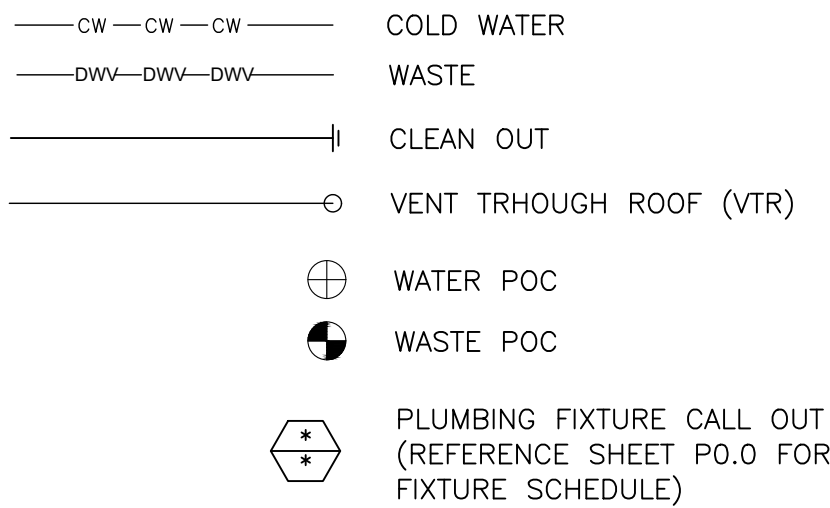
REVISIONS  
△ -  
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PROJECT NO.:  
DRAWN BY:  
SCALE: AS NOTED  
DATE: 09.20.22  
SHEET NUMBER

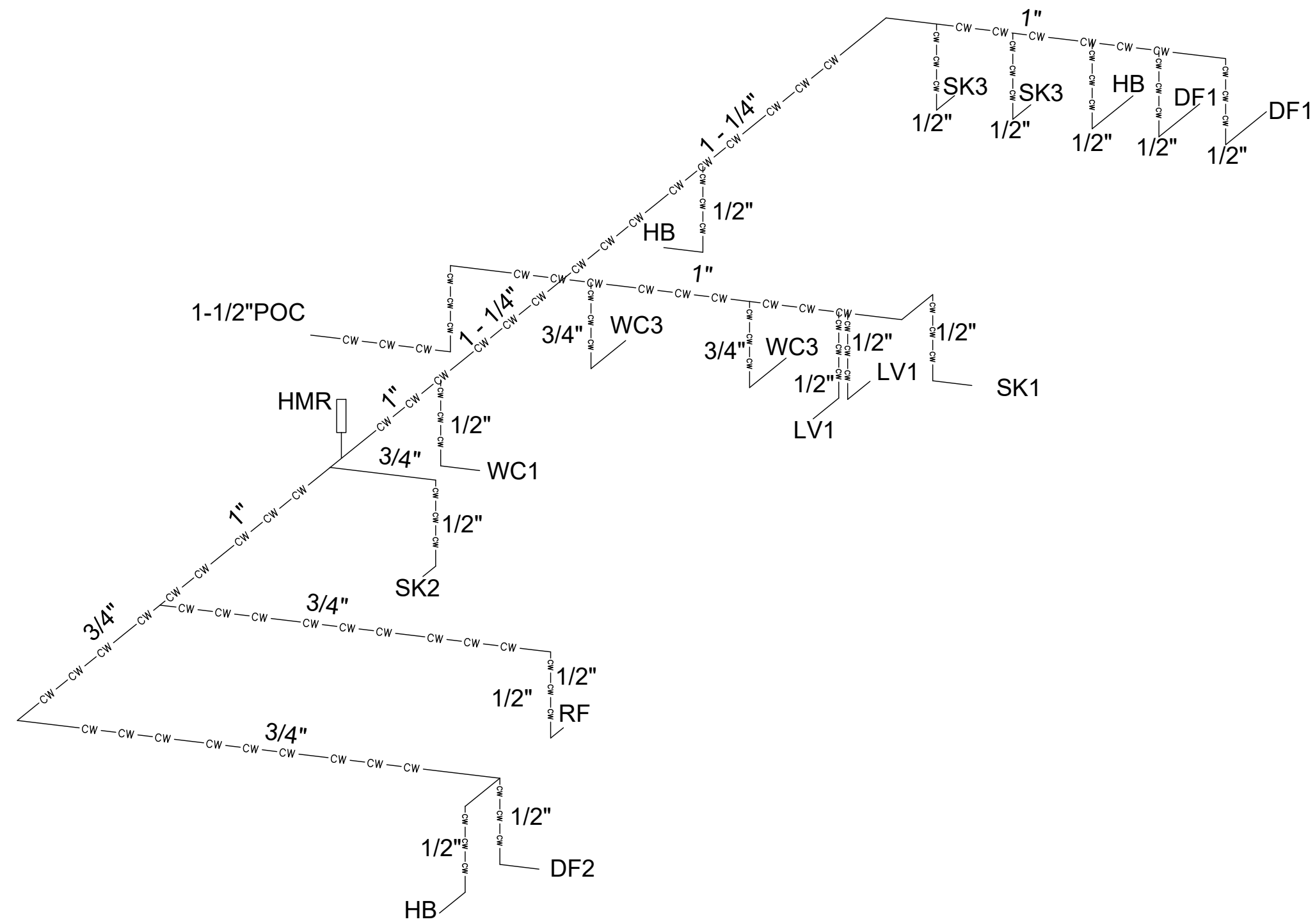
P1.0B-PS



PLUMBING LEGEND

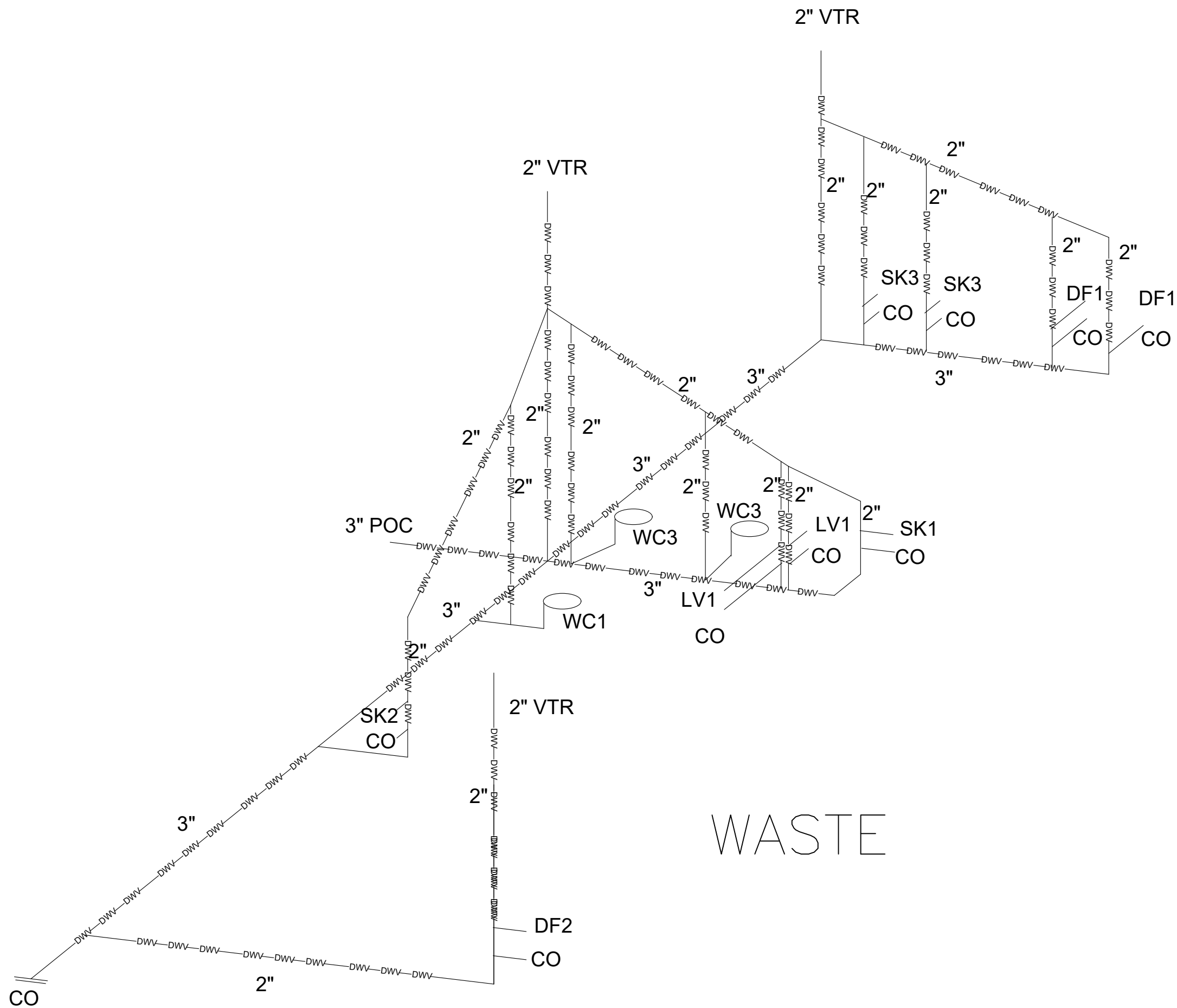


CO	CLEANOUT
LV	WALL HUNG LAVATORY SINK
POC	POINT OF CONNECTION
VTR	VENT THRU ROOF
WC	WATER CLOSET
HA	WATER HAMMER ARRESTOR
SK	SINK
DF	DRINKING FOUNTAIN
HB	HOSE BIBB
*ABS SCHEDULE 40 WASTE PIPE	
*L COPPER WATER PIPE	



WATER

NOT TO SCALE



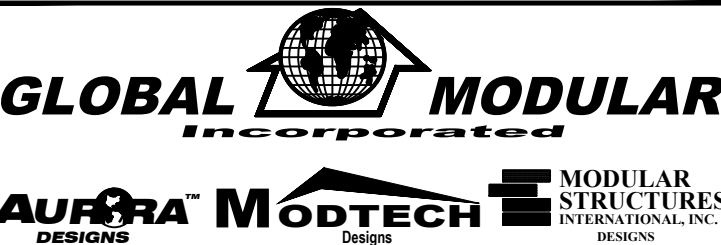
WASTE

PLUMBING PLAN

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

PROJECT SPECIFIC STATE AGENCY APPROVAL

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DIV. OF THE STATE ARCHITECT  
APP: 02-120552 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
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CONTRACTORS LICENSE #837357  
NORTHERN CALIFORNIA DIVISON 450 COMMERCE AVE ATWATER, CA 95301 PHONE: (209) 676-8029 FAX: (209) 676-8067 WEBSITE: WWW.GDMV.NET  
SOUTHERN CALIFORNIA DIVISON 1860 CHICAGO AVE., SUITE 1-7 RIVERSIDE, CA 92507 PHONE: (951) 886-3633 FAX: (951) 886-3666 WEBSITE: WWW.GDMV.NET

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MERCED COLLEGE  
LOS BANOS DAY CARE  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:  
PLUMBING SCHEMATICS  
BUILDING D

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS  
REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD



ARCHITECT OF RECORD

REVISIONS

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△ -  
△ -

PROJECT NO.:

DRAWN BY:

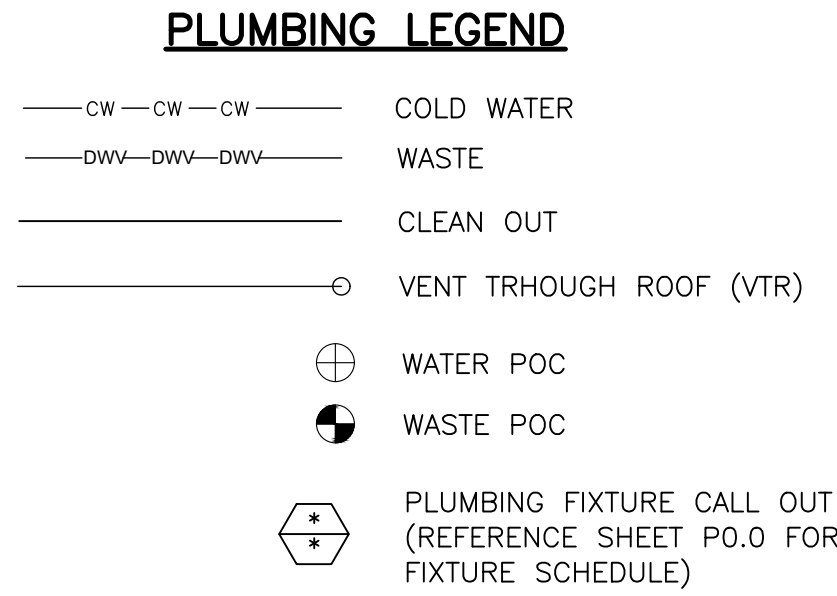
SCALE: AS NOTED

DATE: 09.20.22

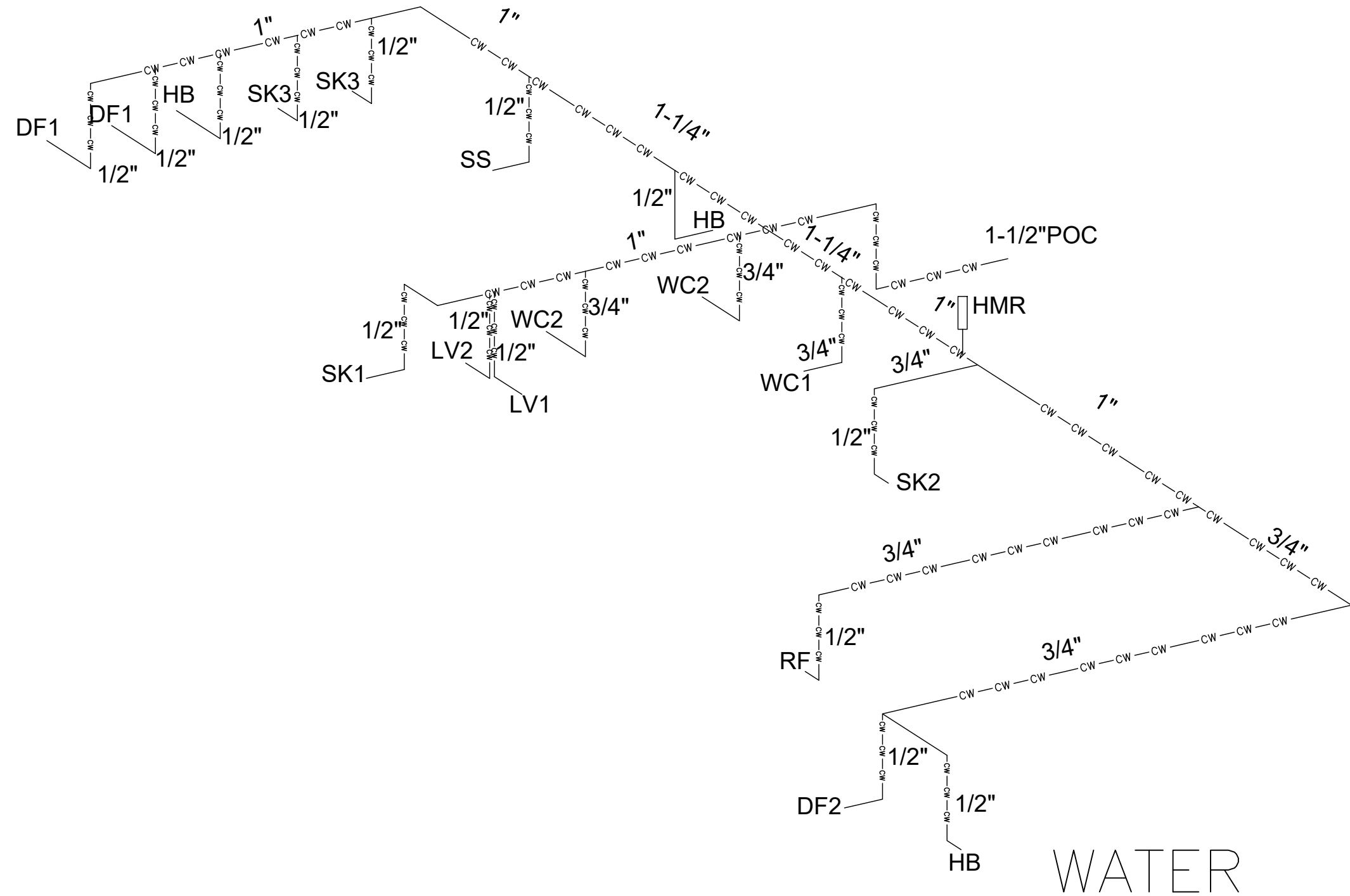
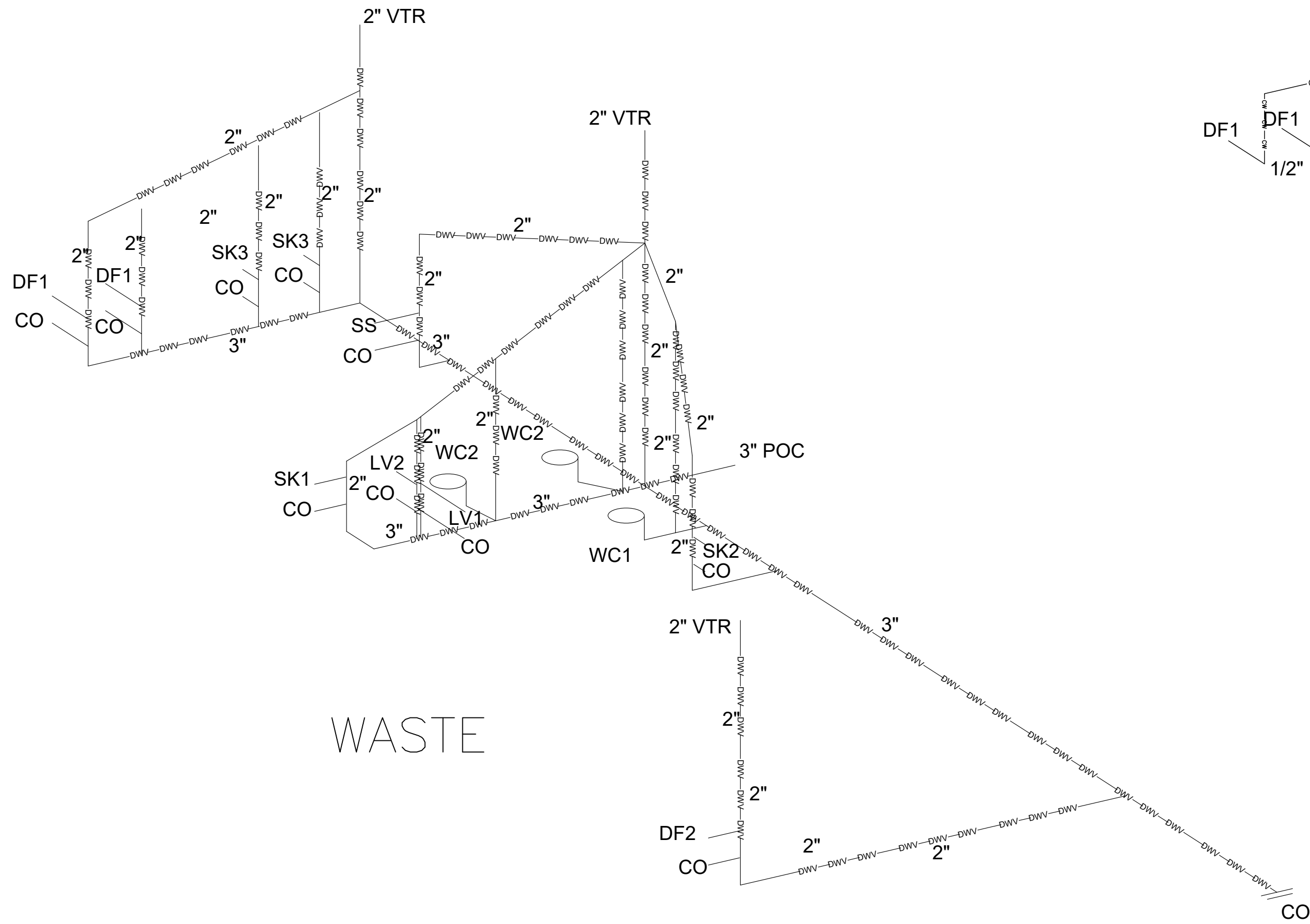
SHEET NUMBER

P2.0A-PS





CO	CLEANOUT
LV	WALL HUNG LAVATORY SINK
POC	POINT OF CONNECTION
VTR	VENT THRU ROOF
WC	WATER CLOSET
HA	WATER HAMMER ARRESTOR
SK	SINK
FS	FLOOR SINK
DF	DRINKING FOUNTAIN
HB	HOSE BIBB
*ABS SCHEDULE 40 WASTE PIPE	
*L COPPER WATER PIPE	



NOT TO SCALE

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120552 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022

**GLOBAL MODULAR**  
*INCORPORATED*

**AURORA MODTECH**  
*DESIGNS*

MODULAR STRUCTURES  
INTERNATIONAL, INC.  
DESIGNS

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISON  
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FAX: (951) 886-3666  
WEBSITE: WWW.GDMV.NET

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PROJECT NAME: 36'X40'  
MERCED COLLEGE  
LOS BANOS DAY CARE  
22240 CA-152  
LOS BANOS CA 93635

SHEET TITLE:  
PLUMBING SCHEMATICS  
BUILDING E

PRE-CHECK (PC) DOCUMENT  
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS  
REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ROBERT ESPINOZA  
C-14456  
2/2023  
STATE OF CALIFORNIA

ARCHITECT OF RECORD

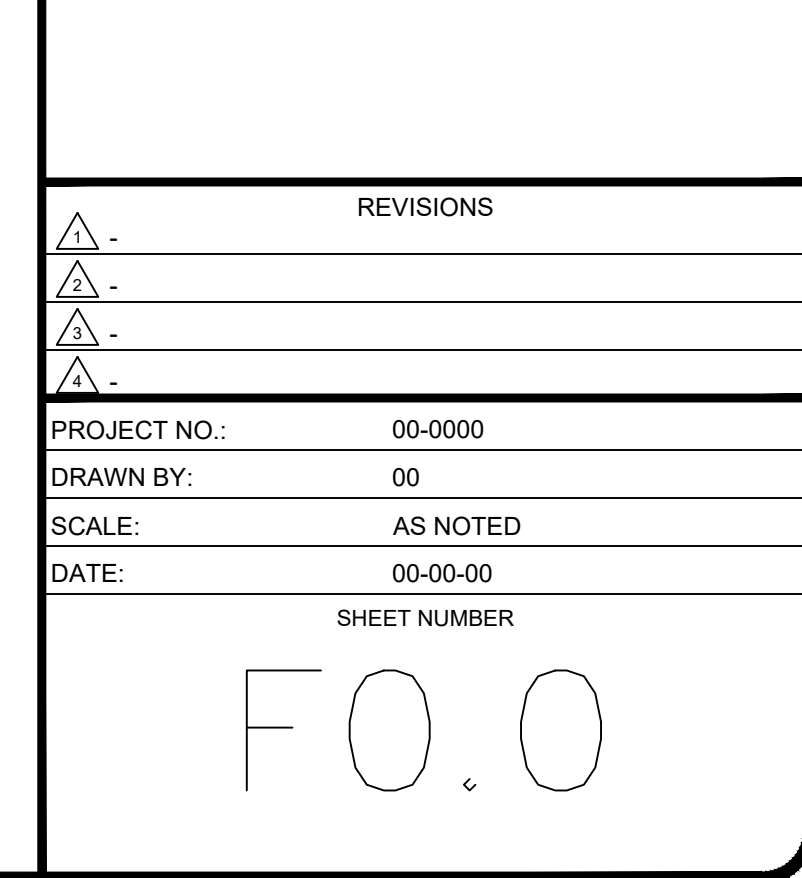
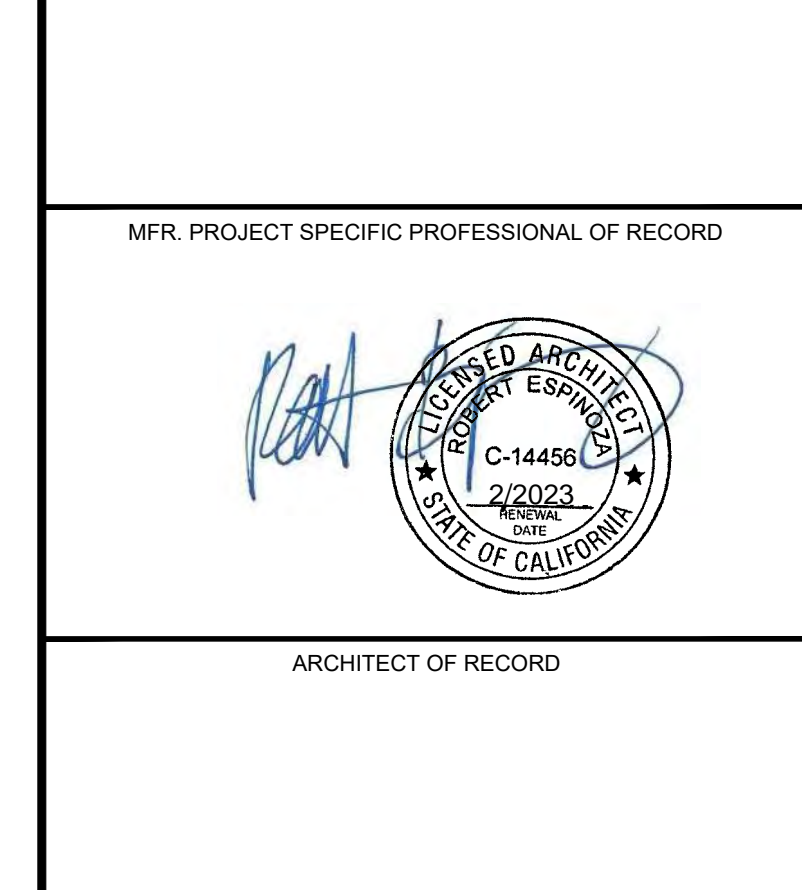
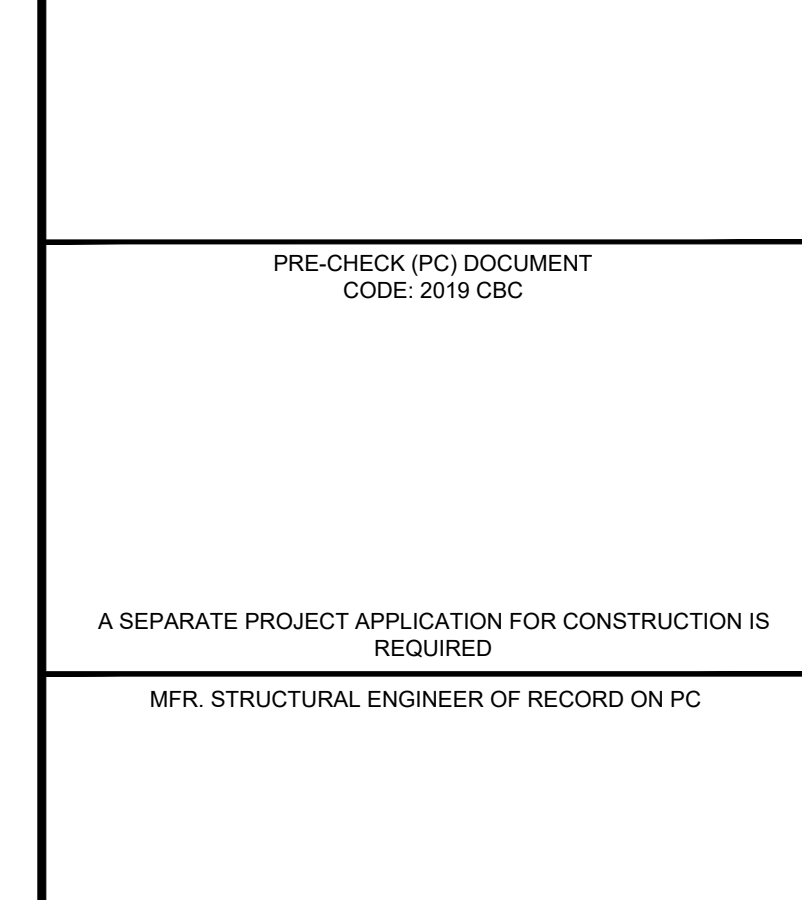
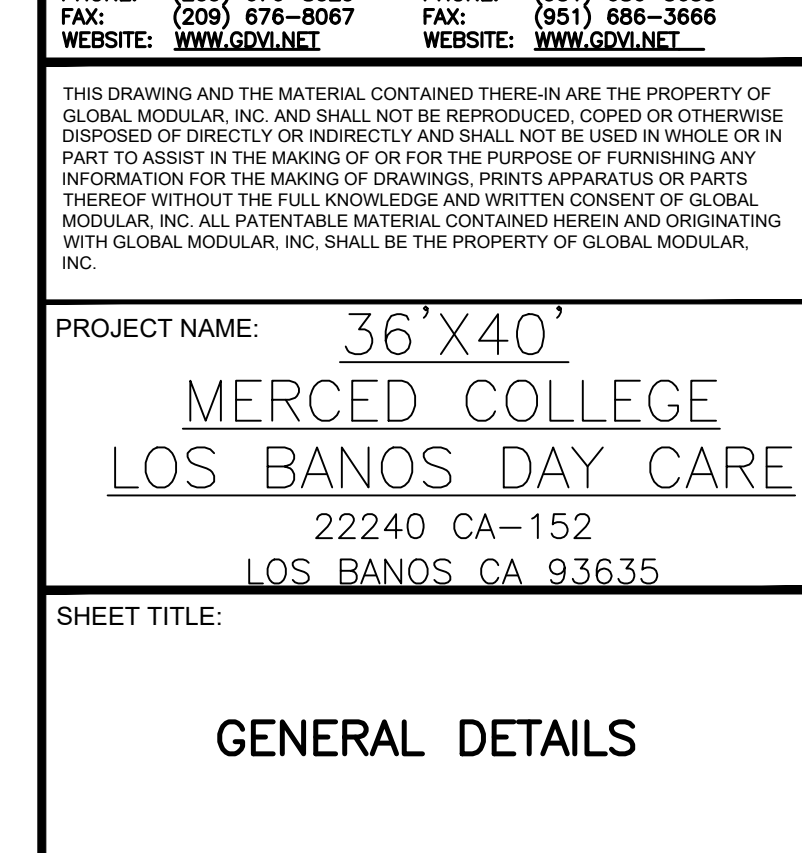
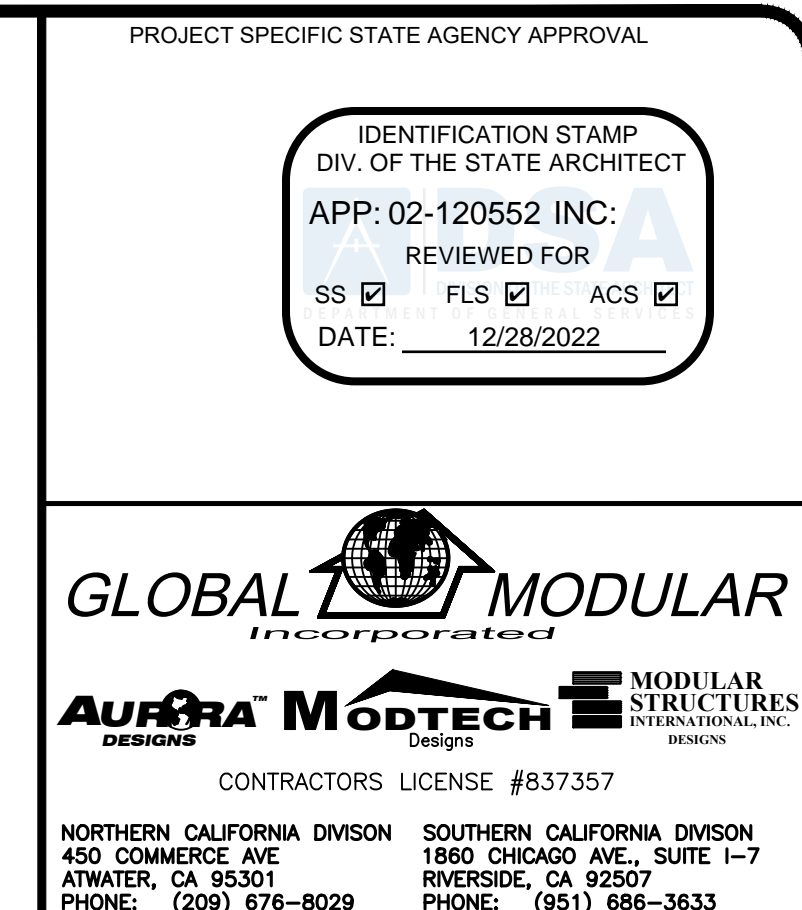
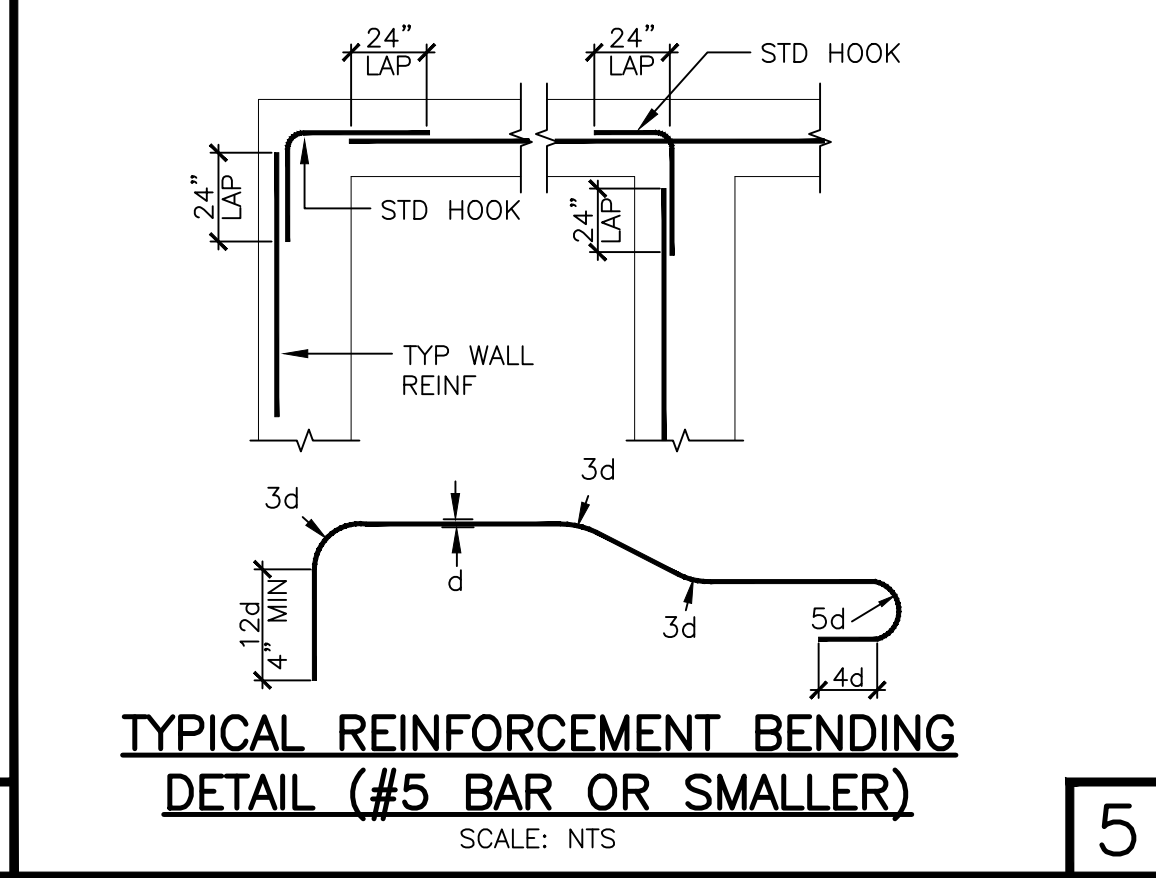
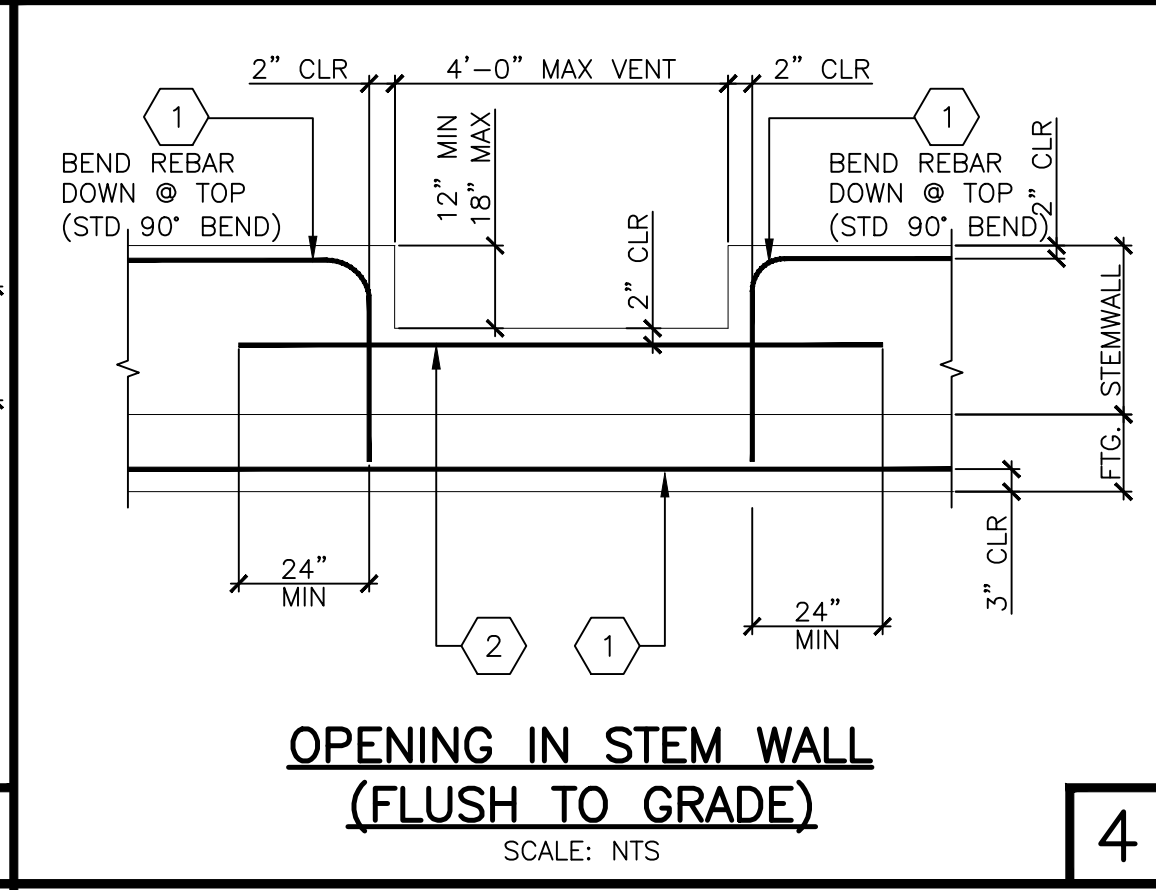
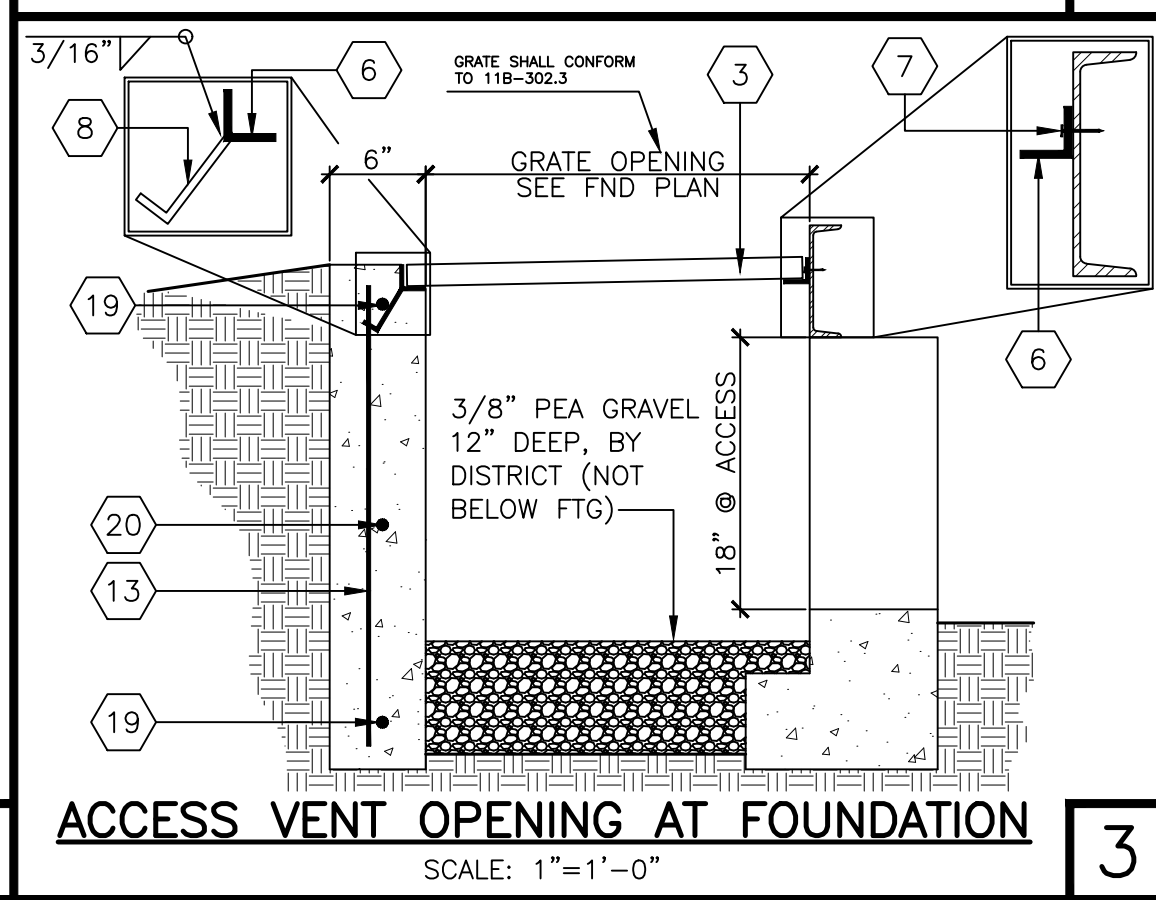
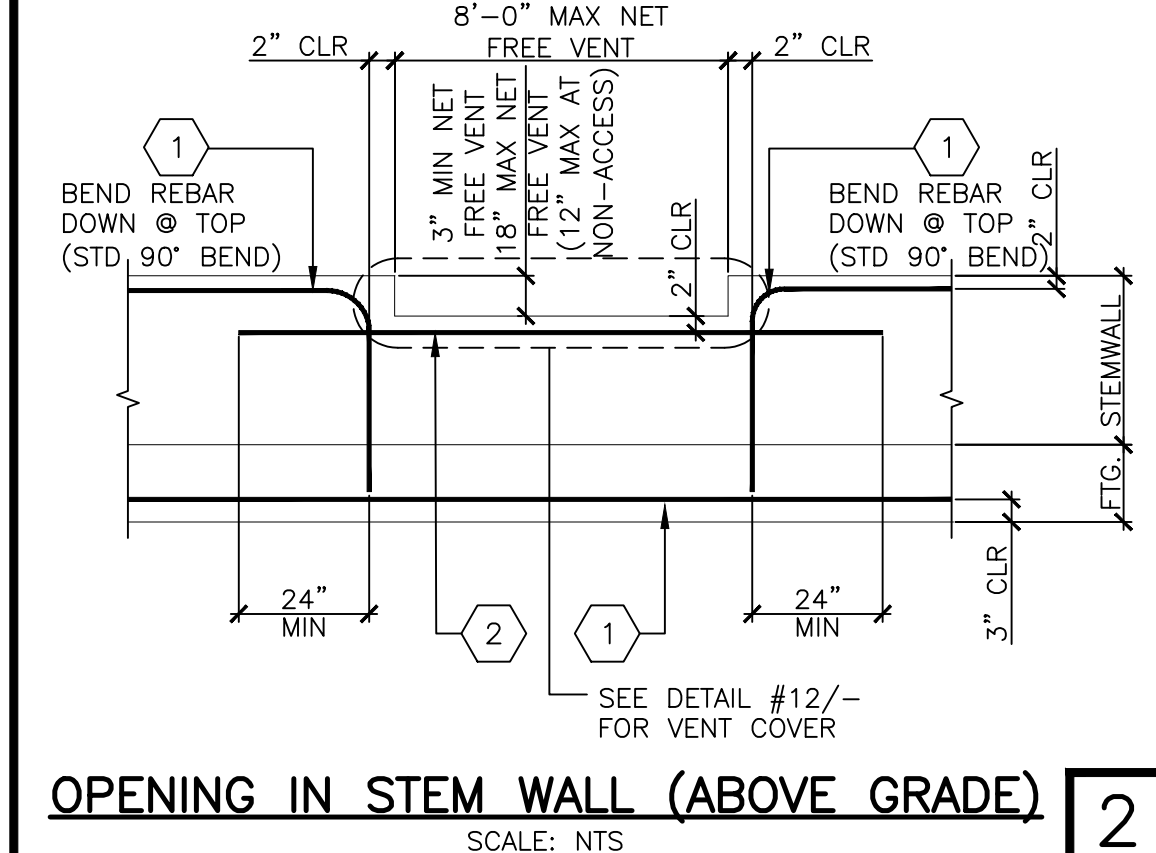
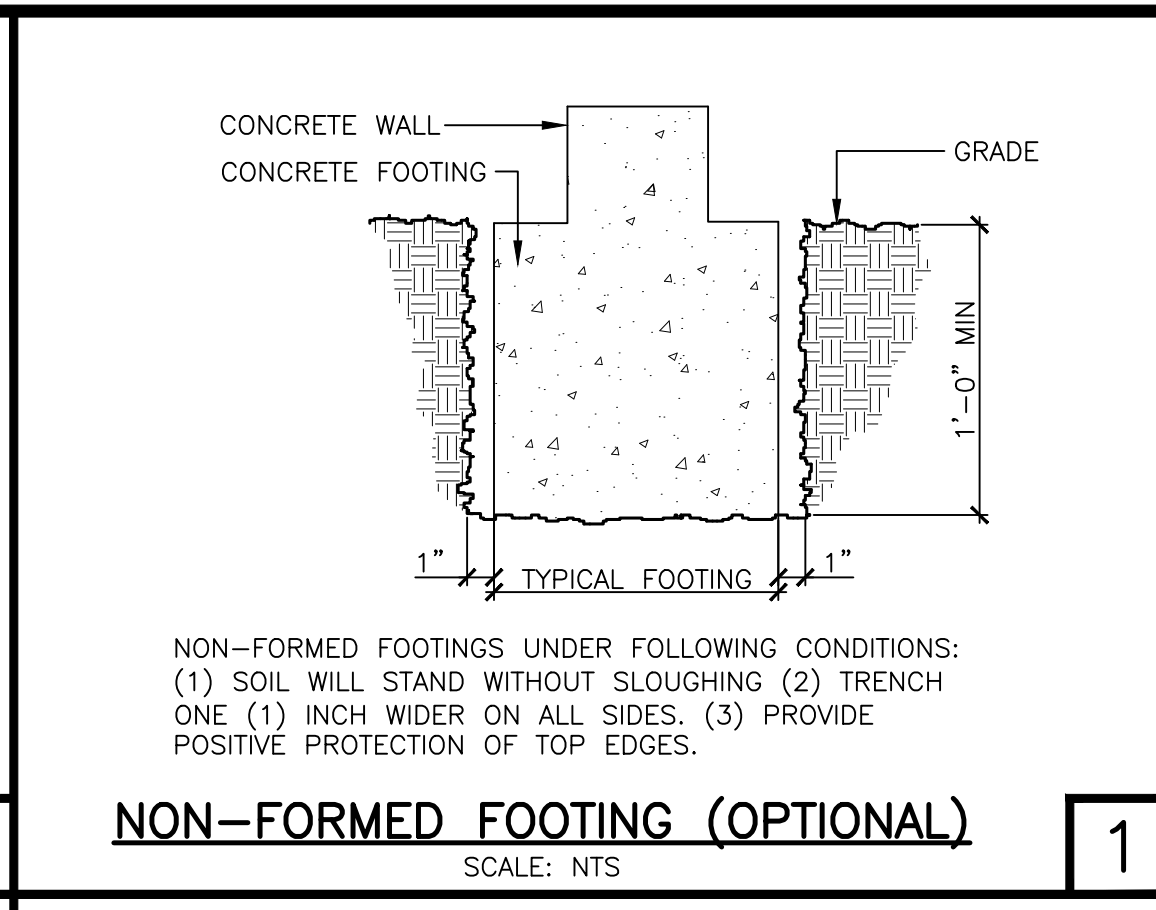
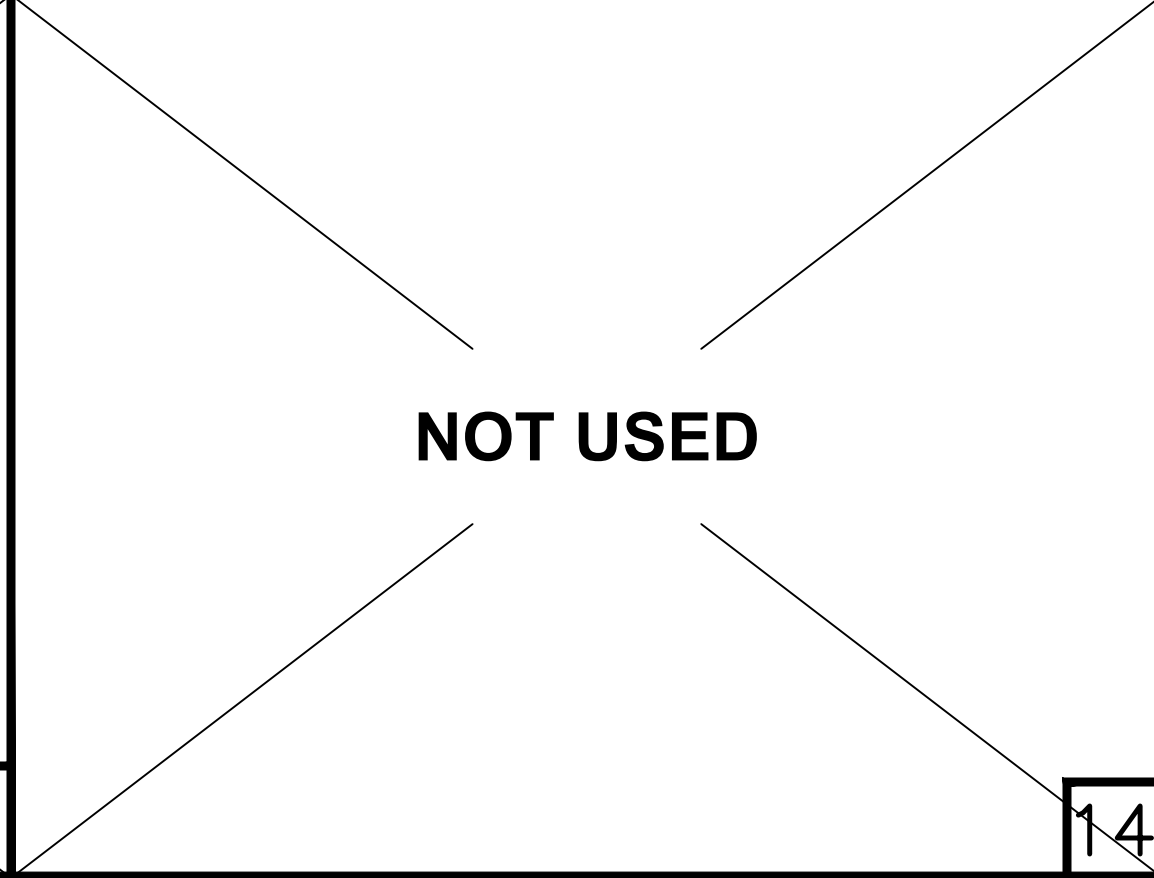
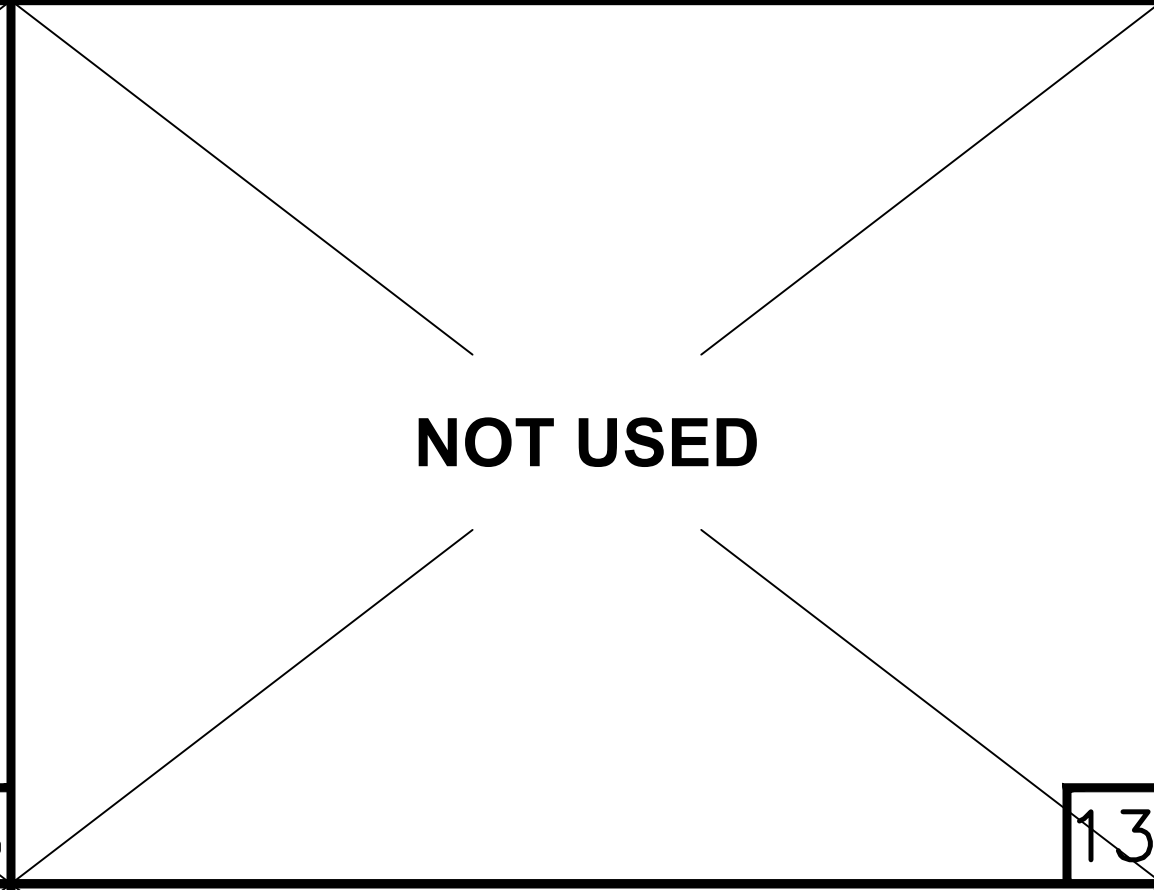
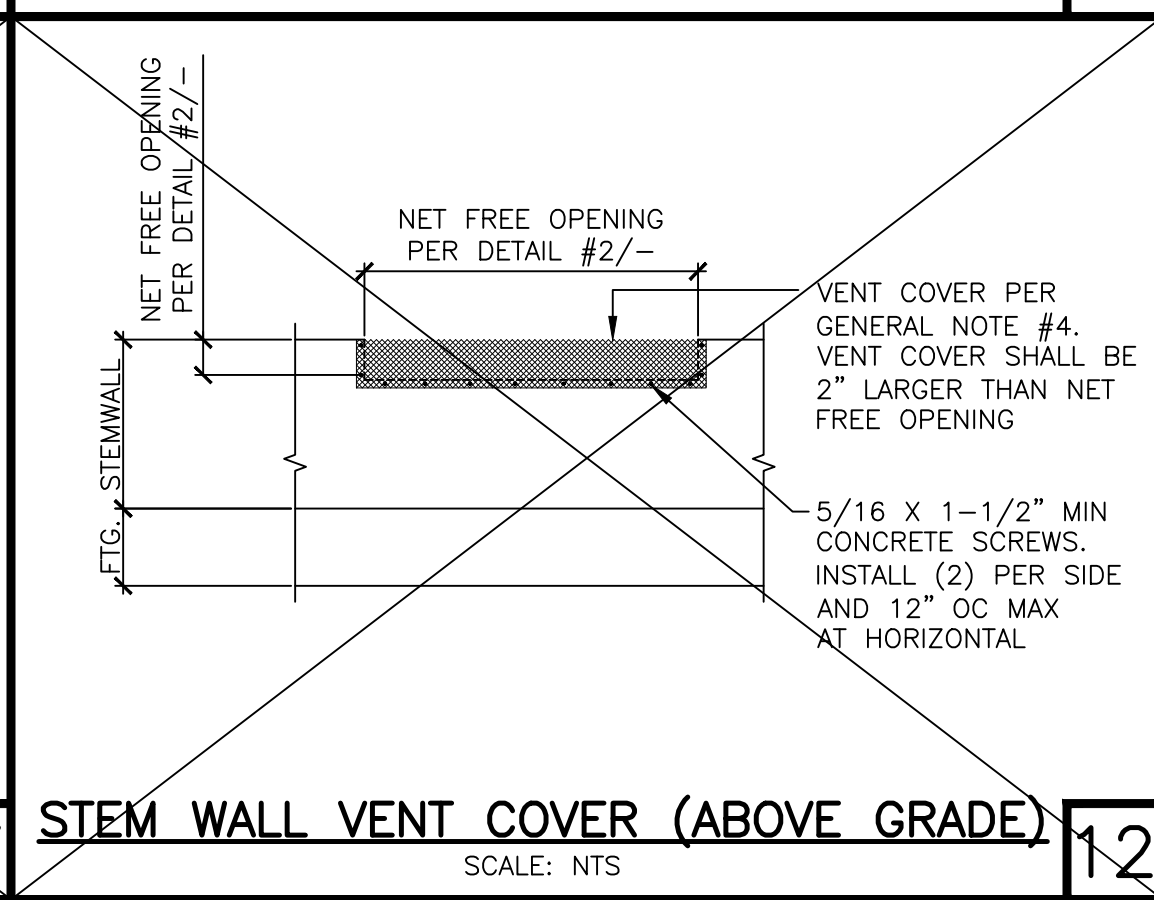
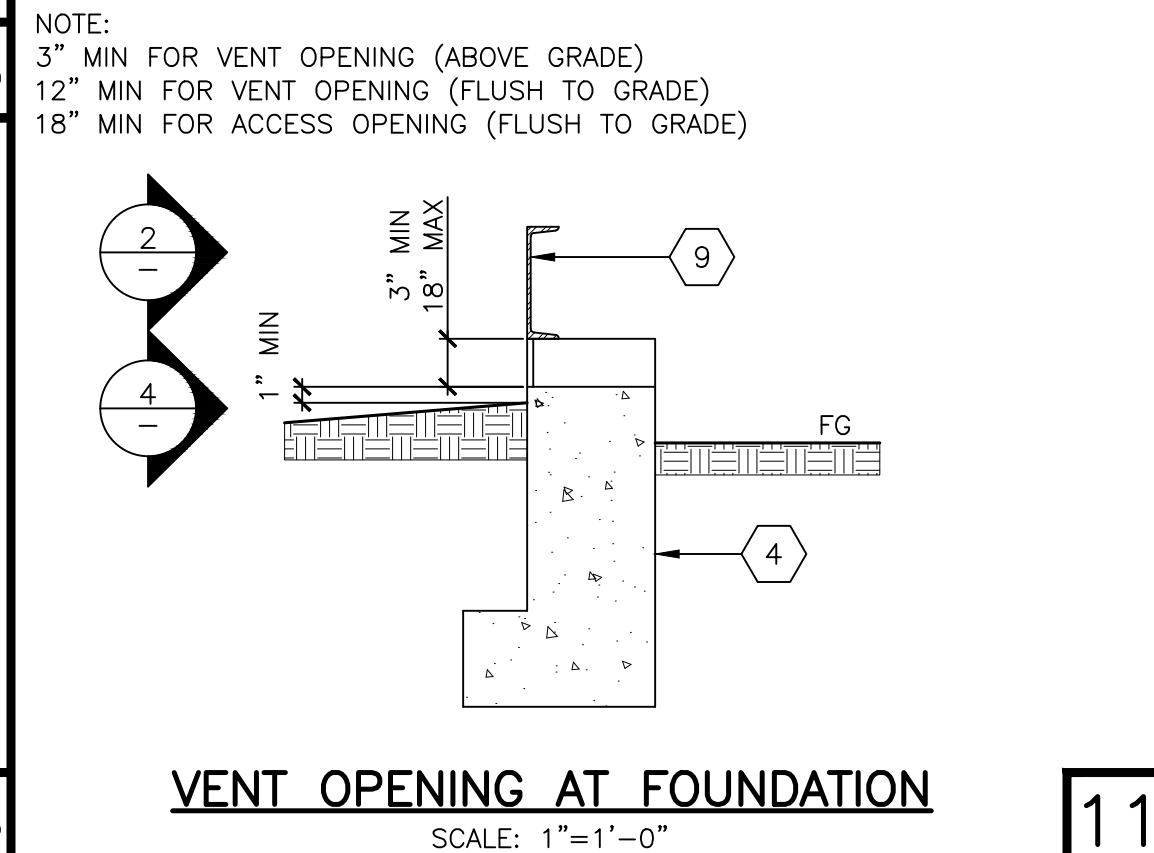
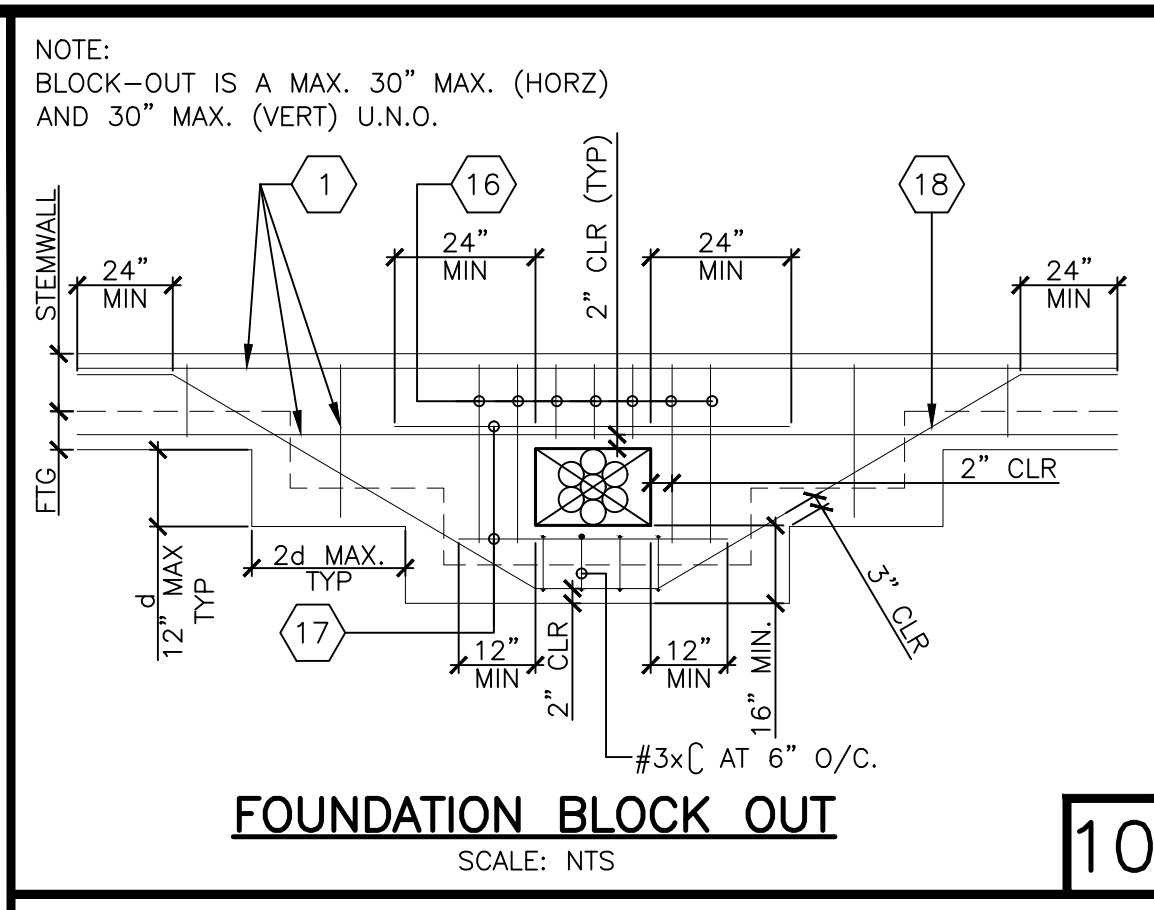
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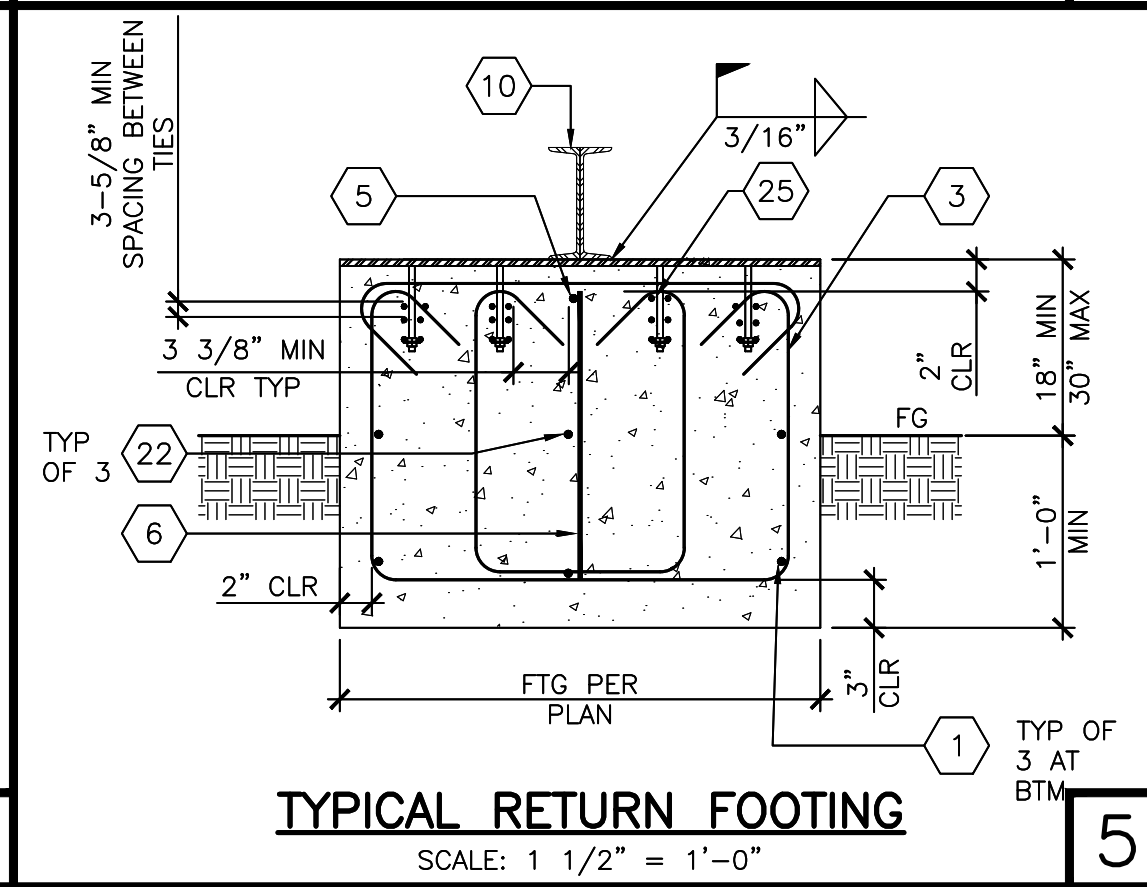
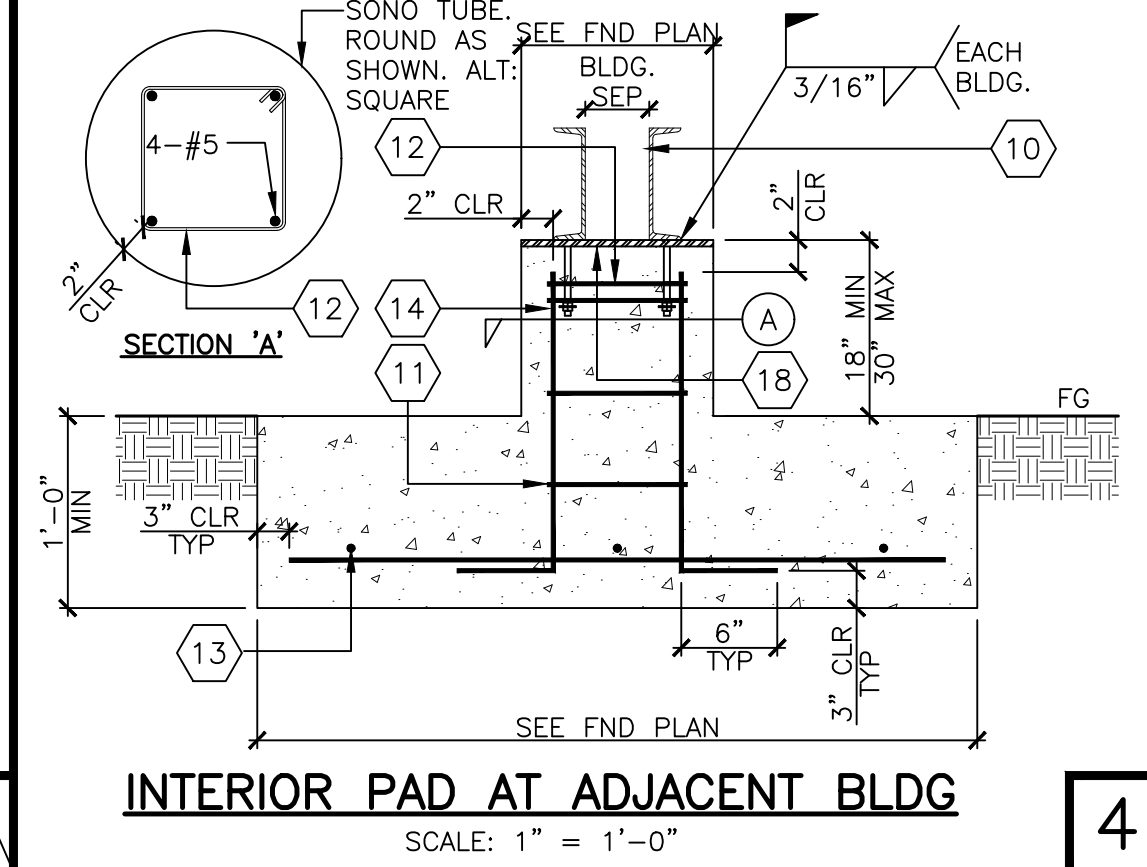
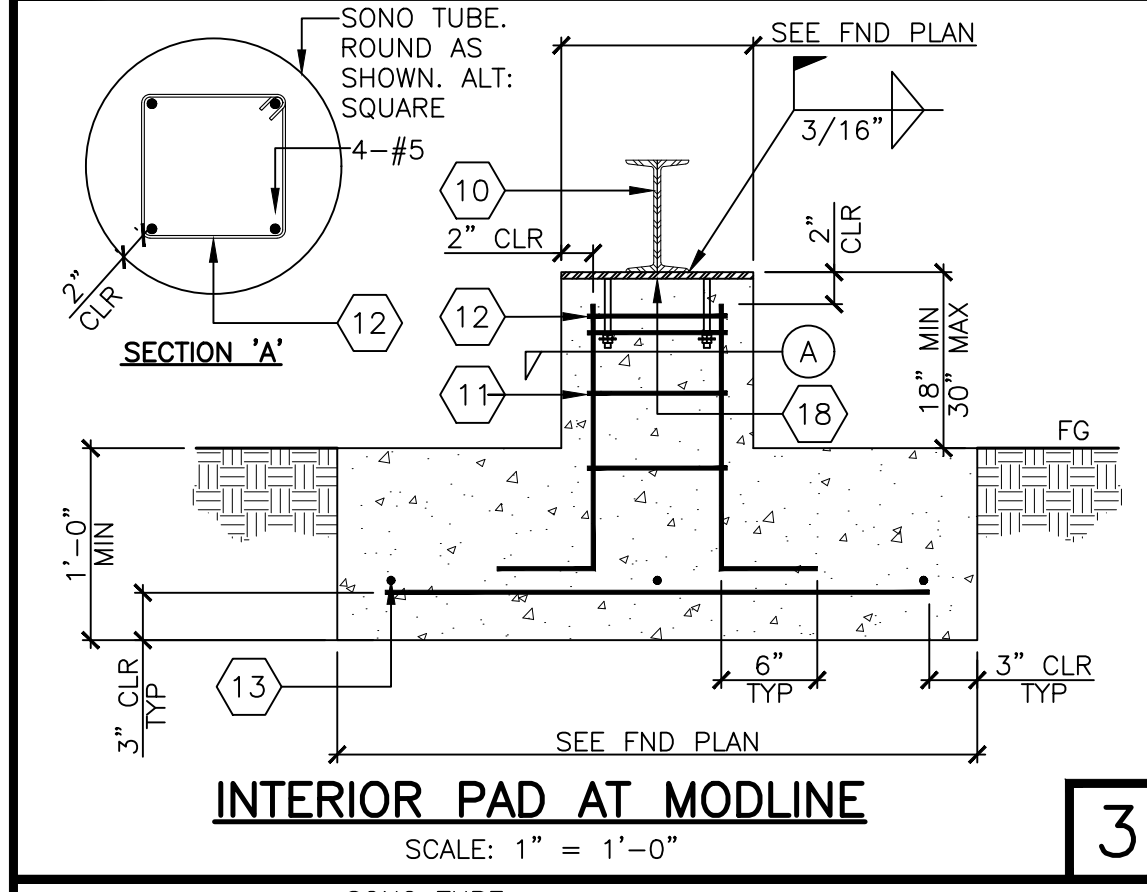
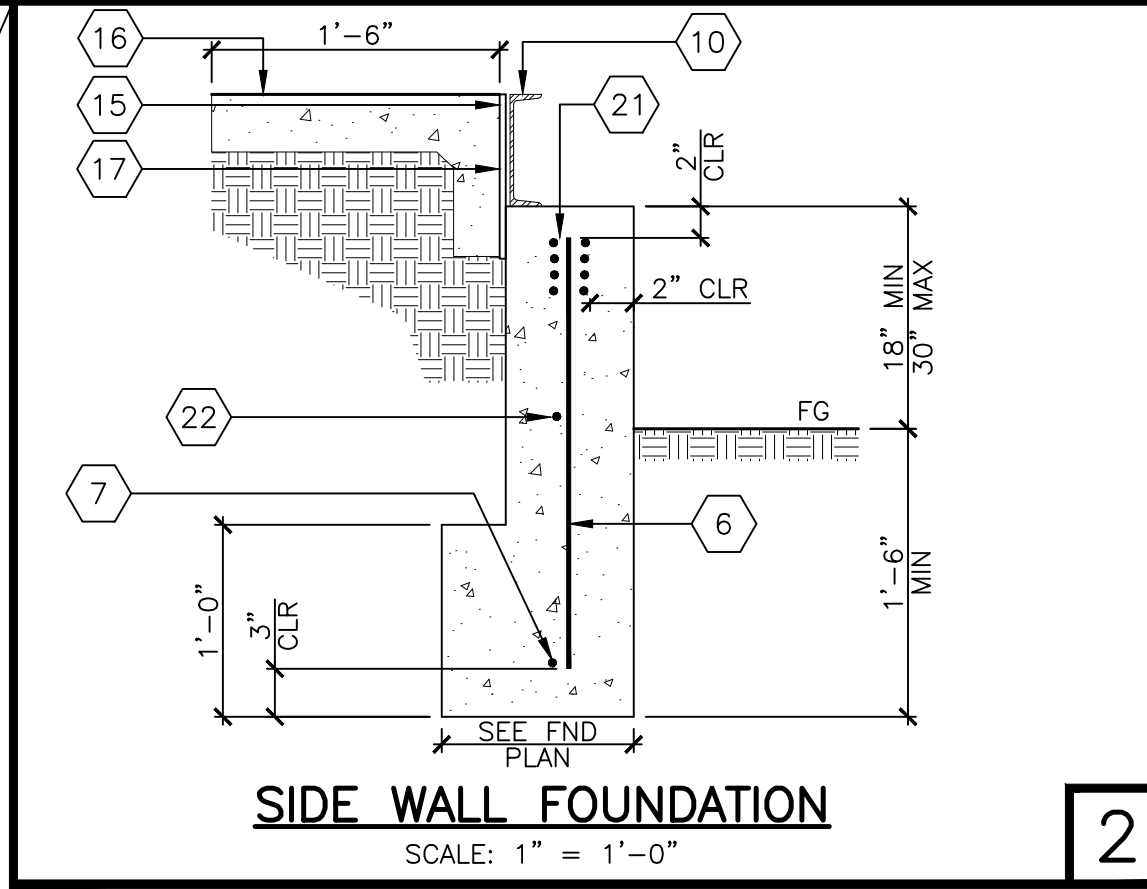
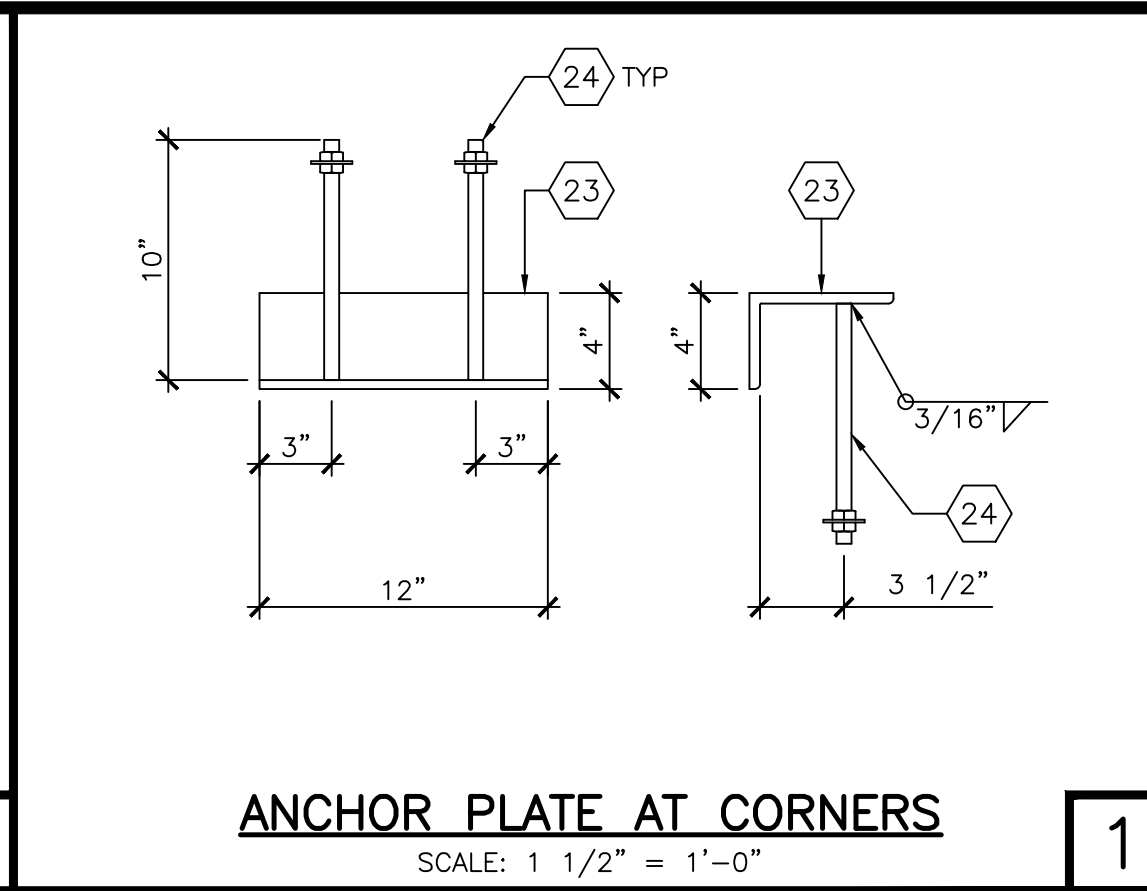
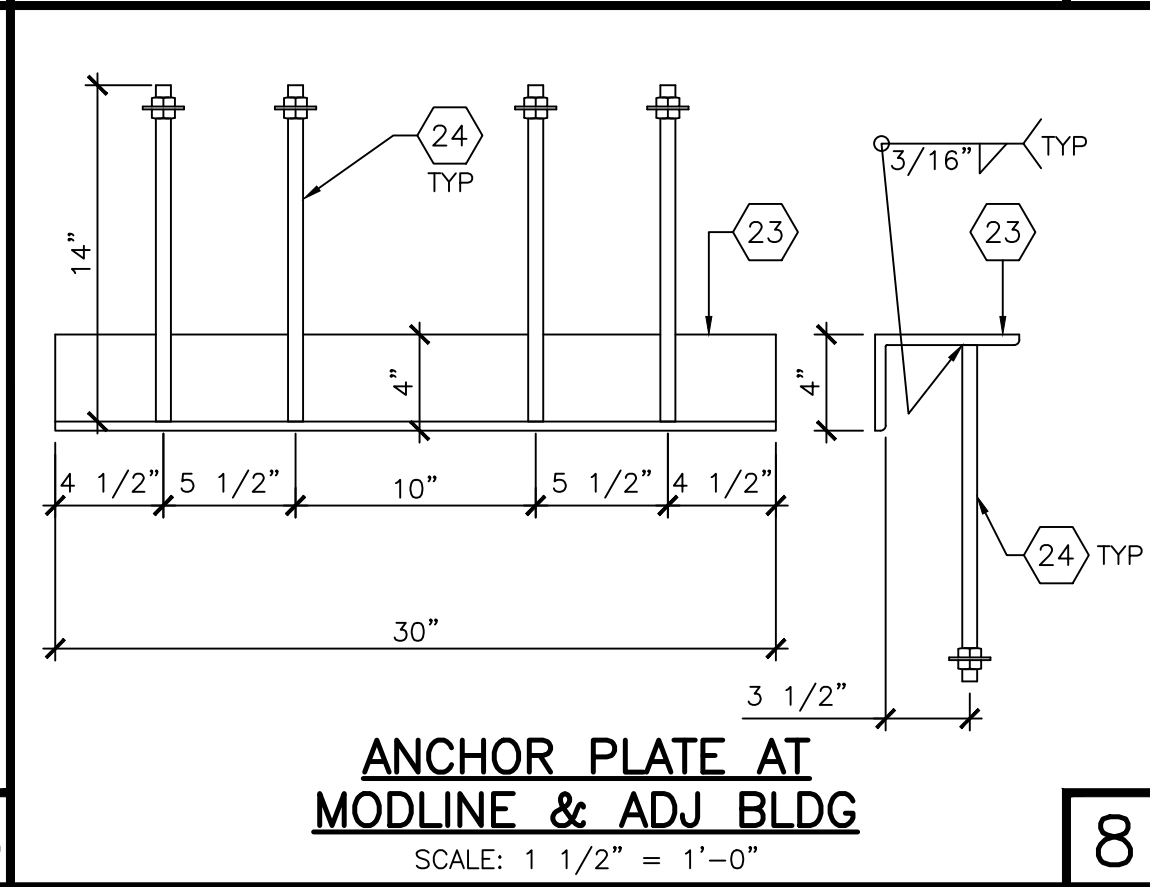
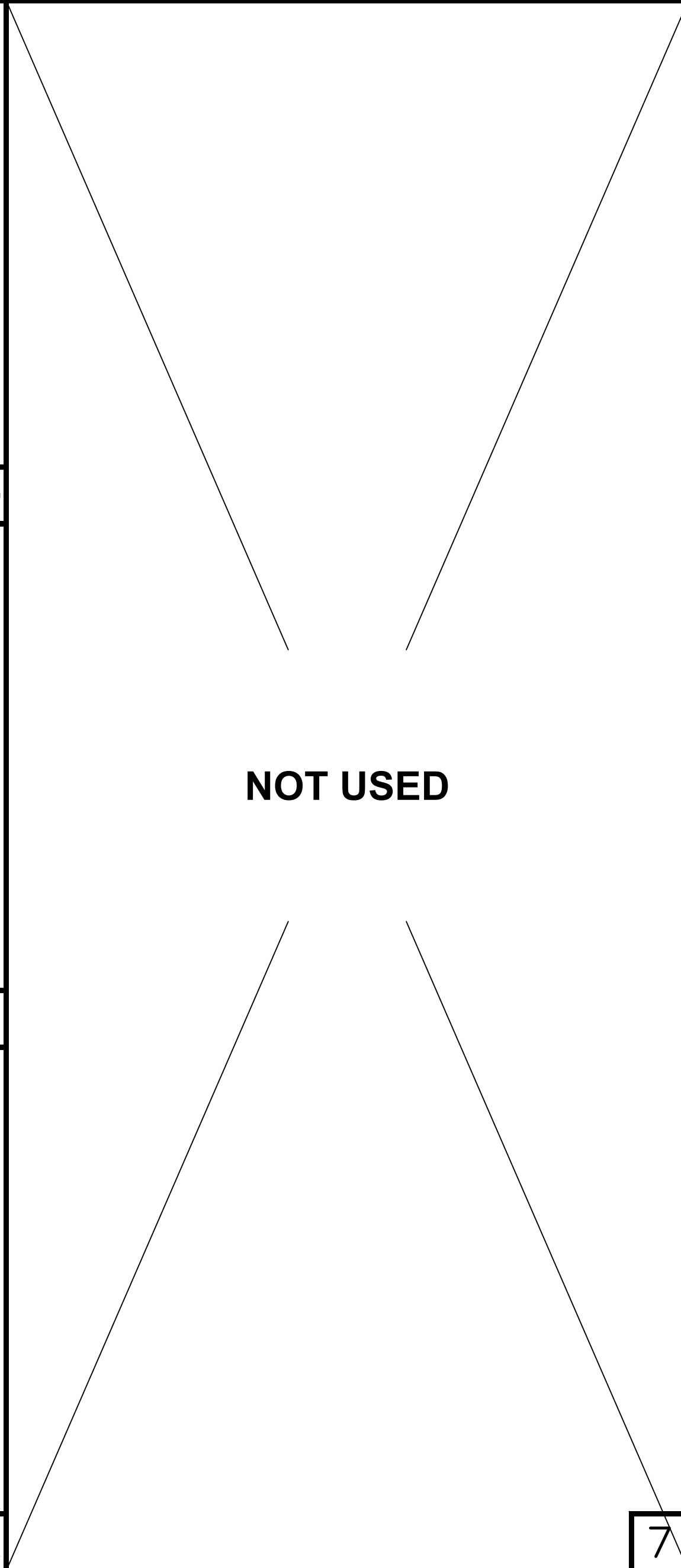
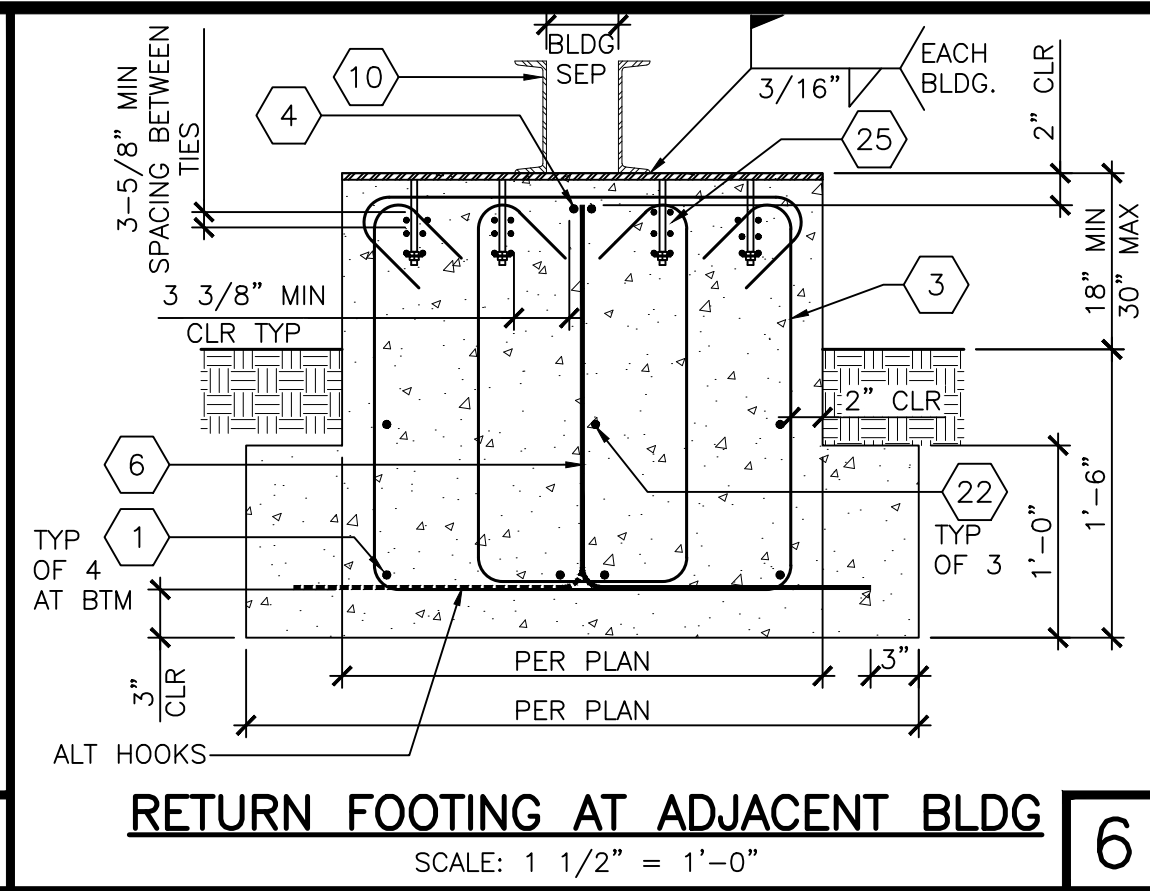
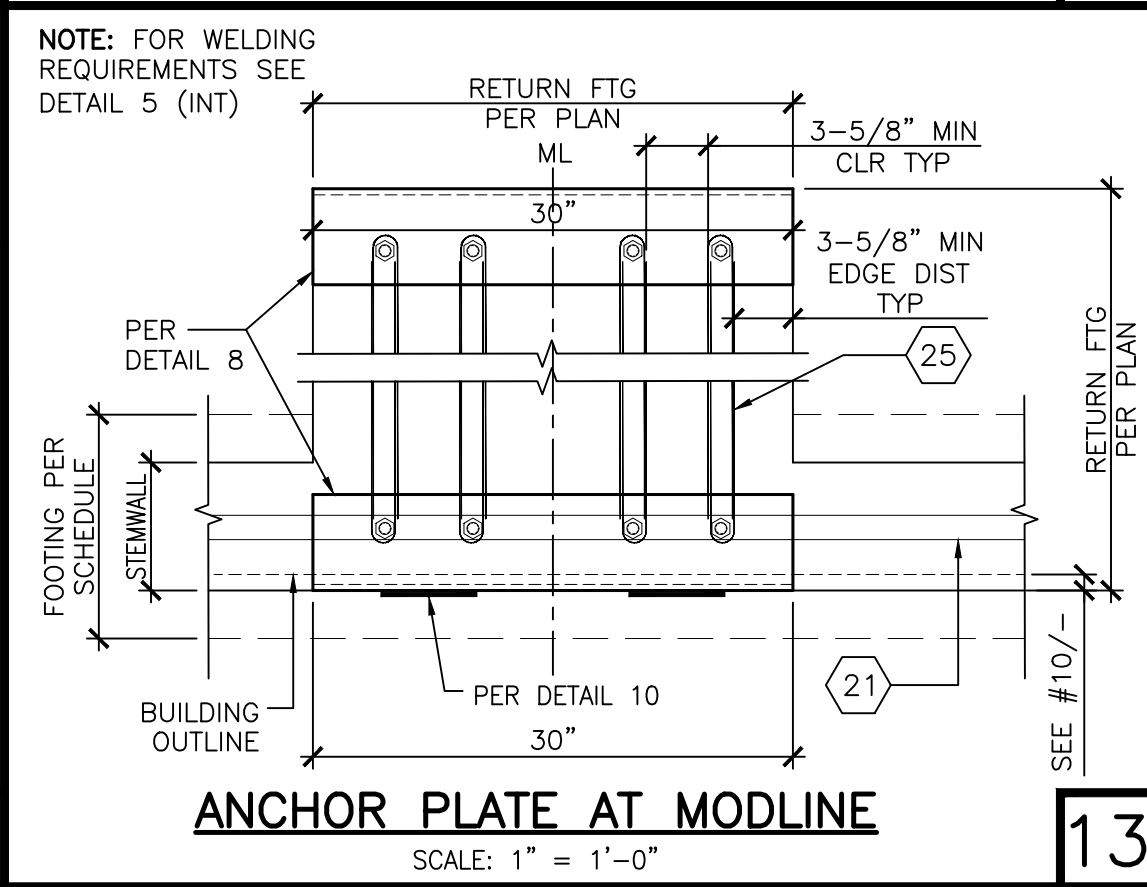
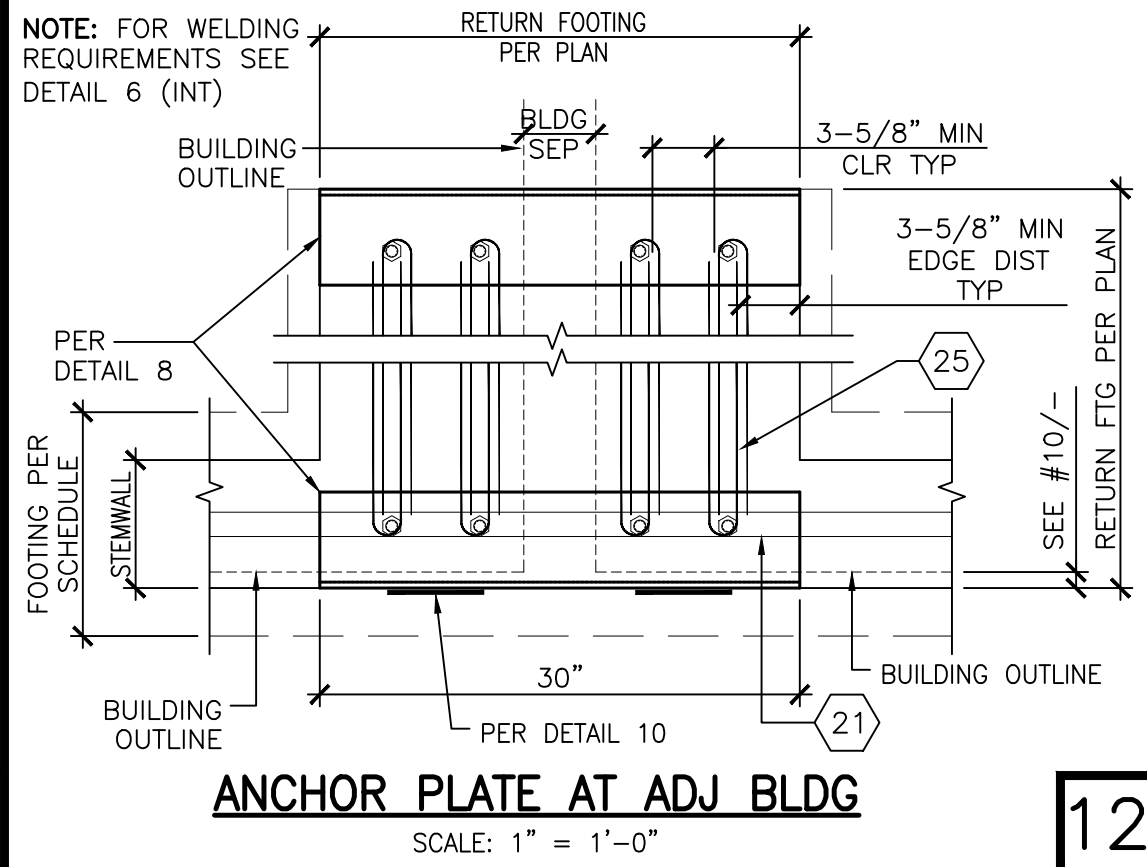
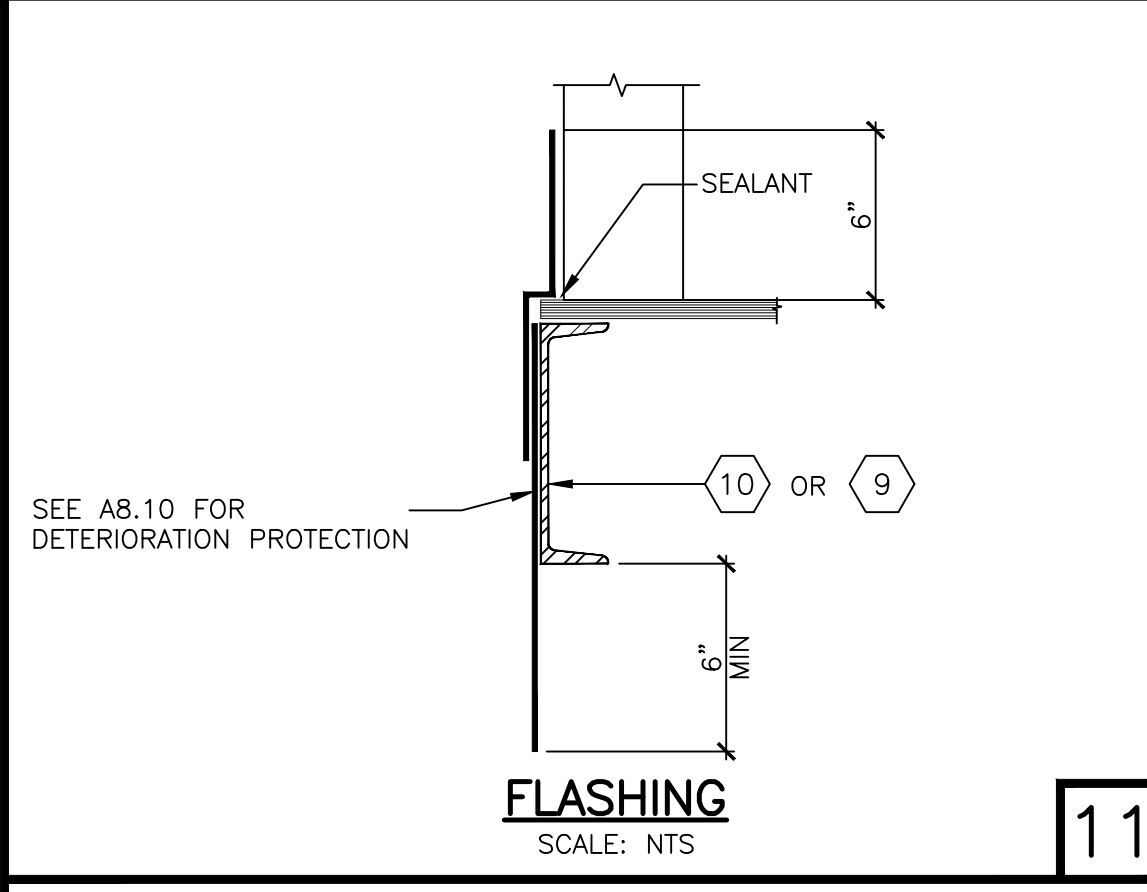
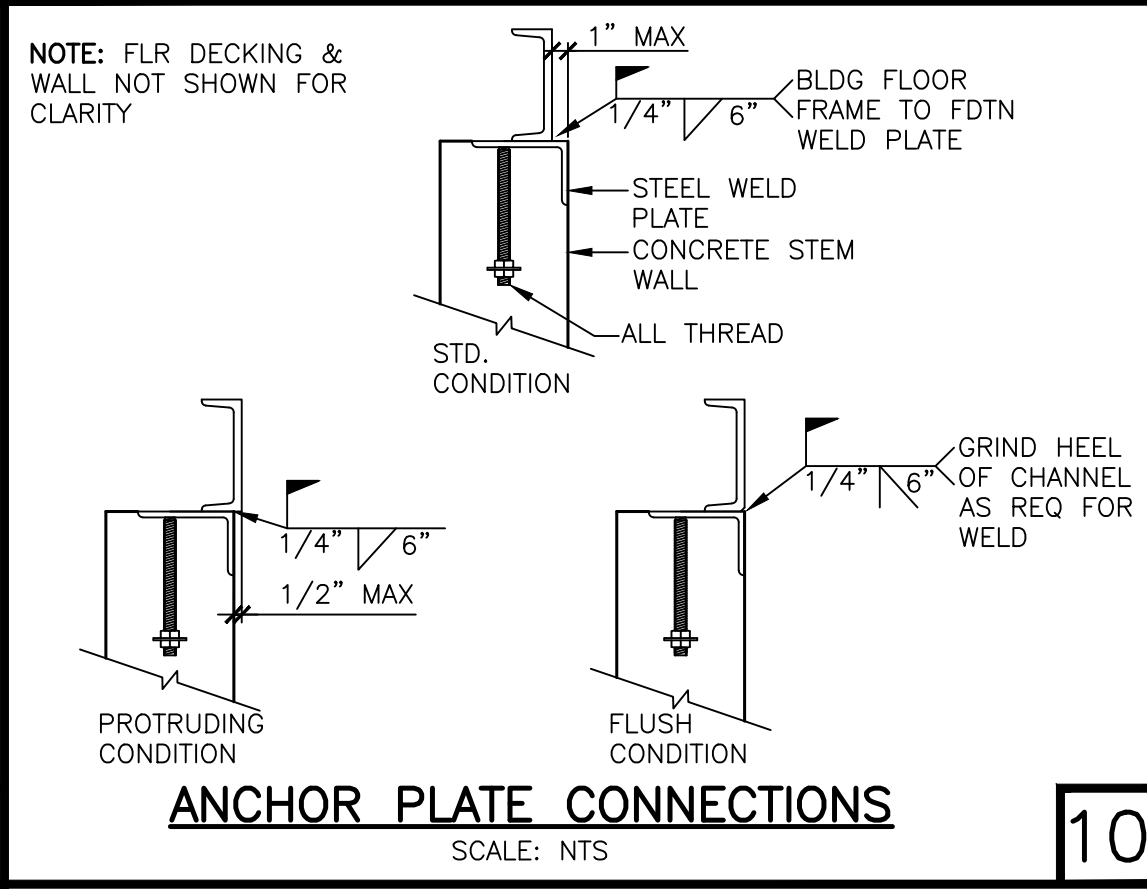
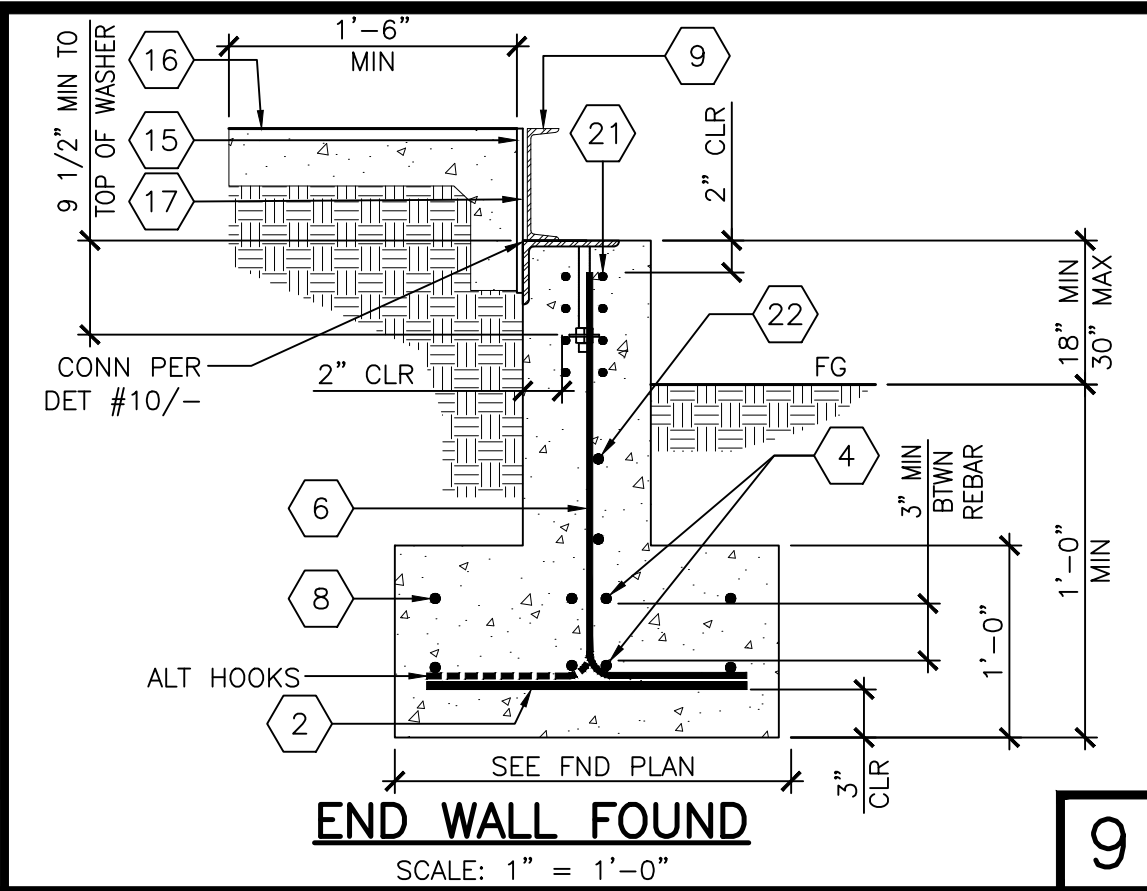
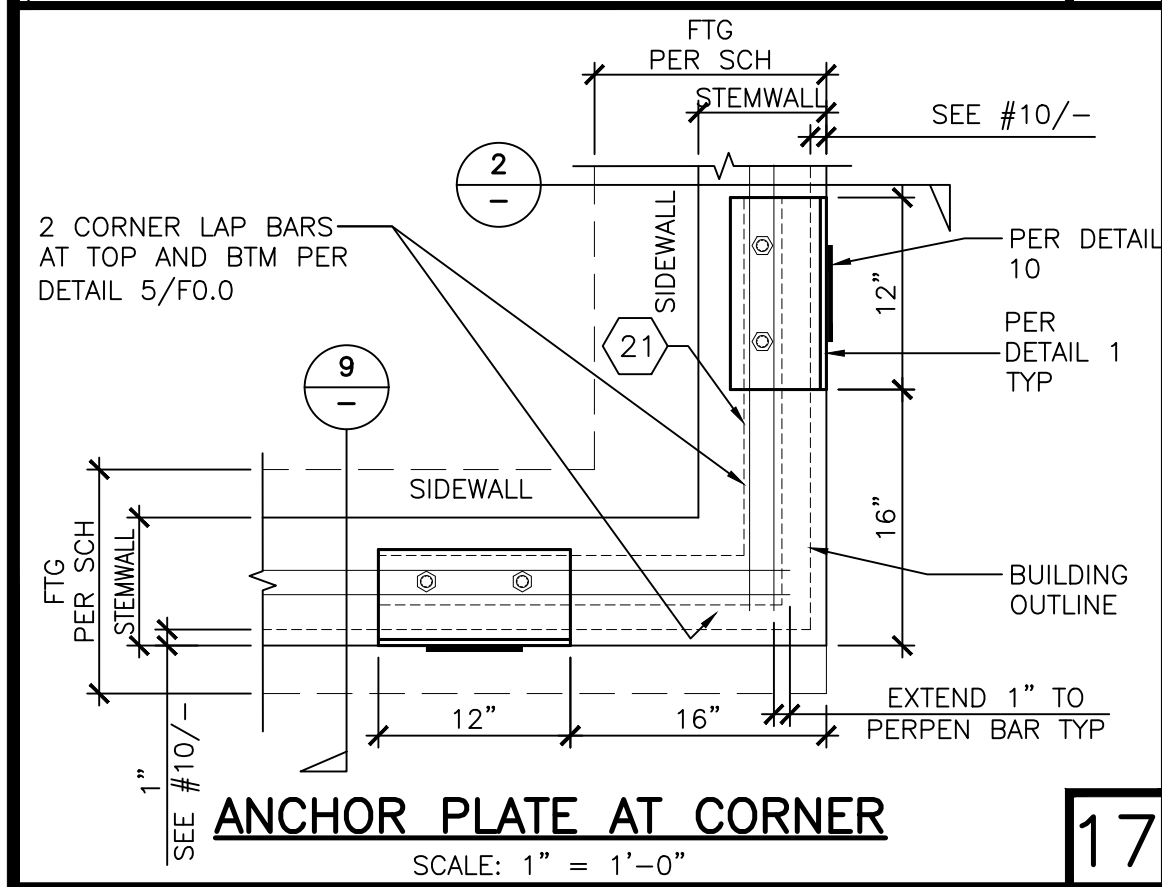
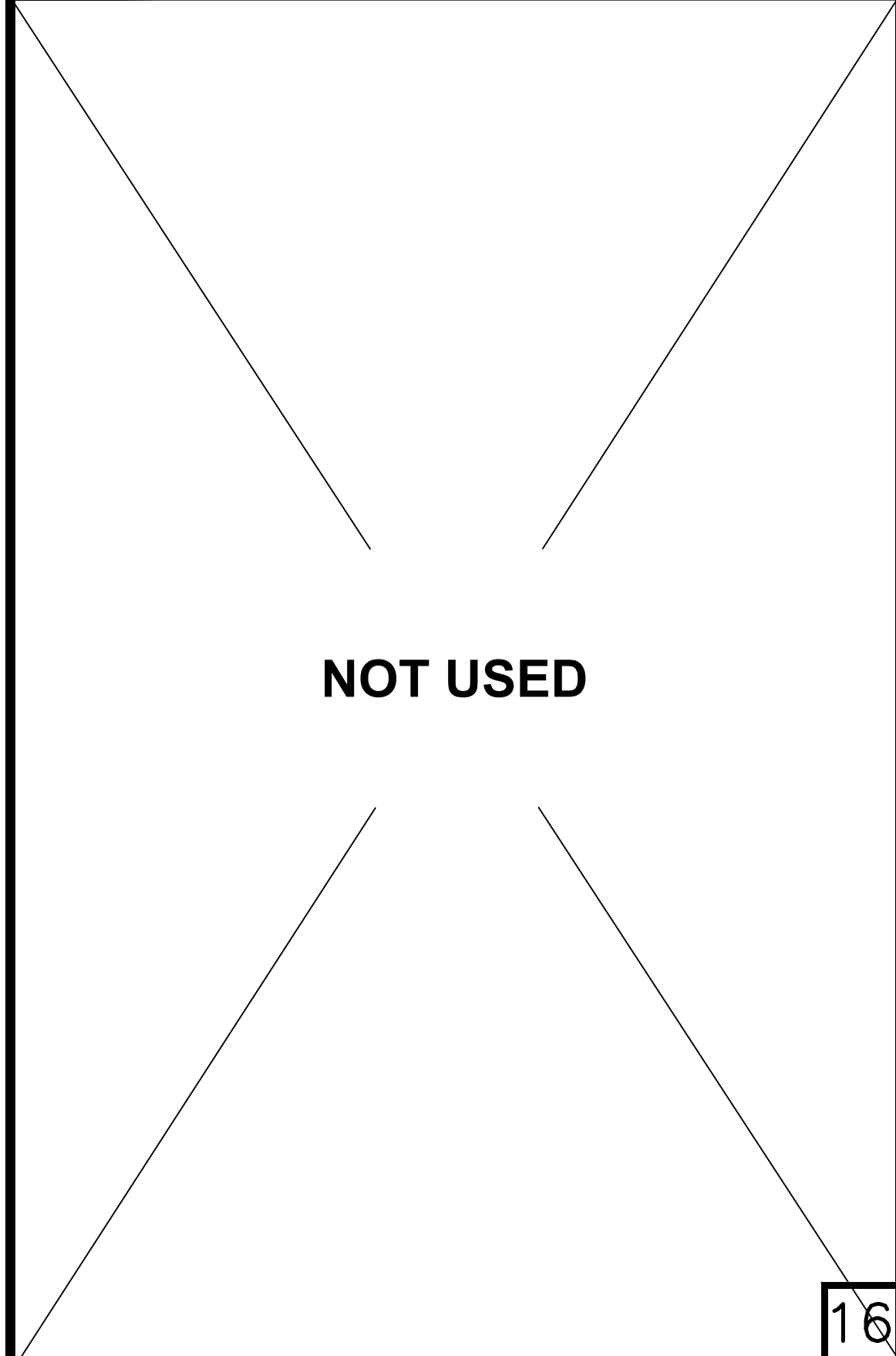
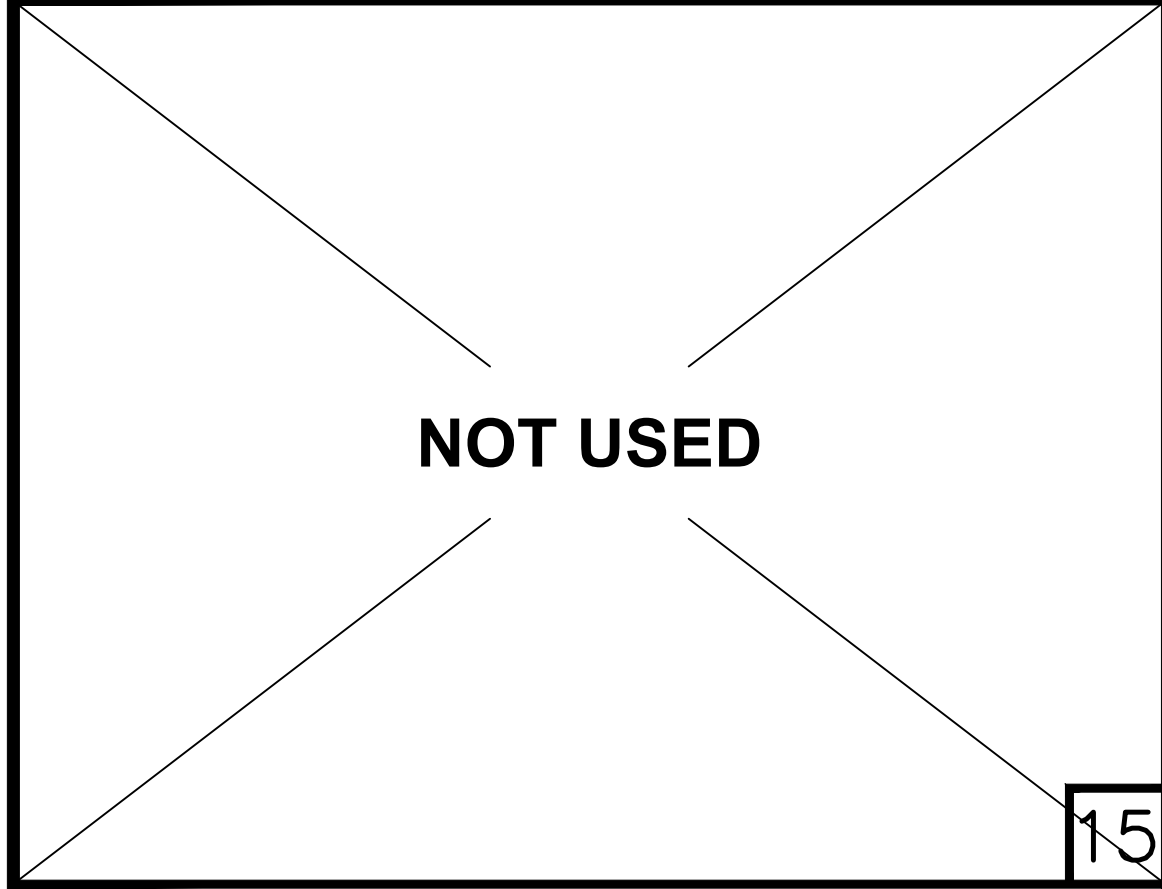
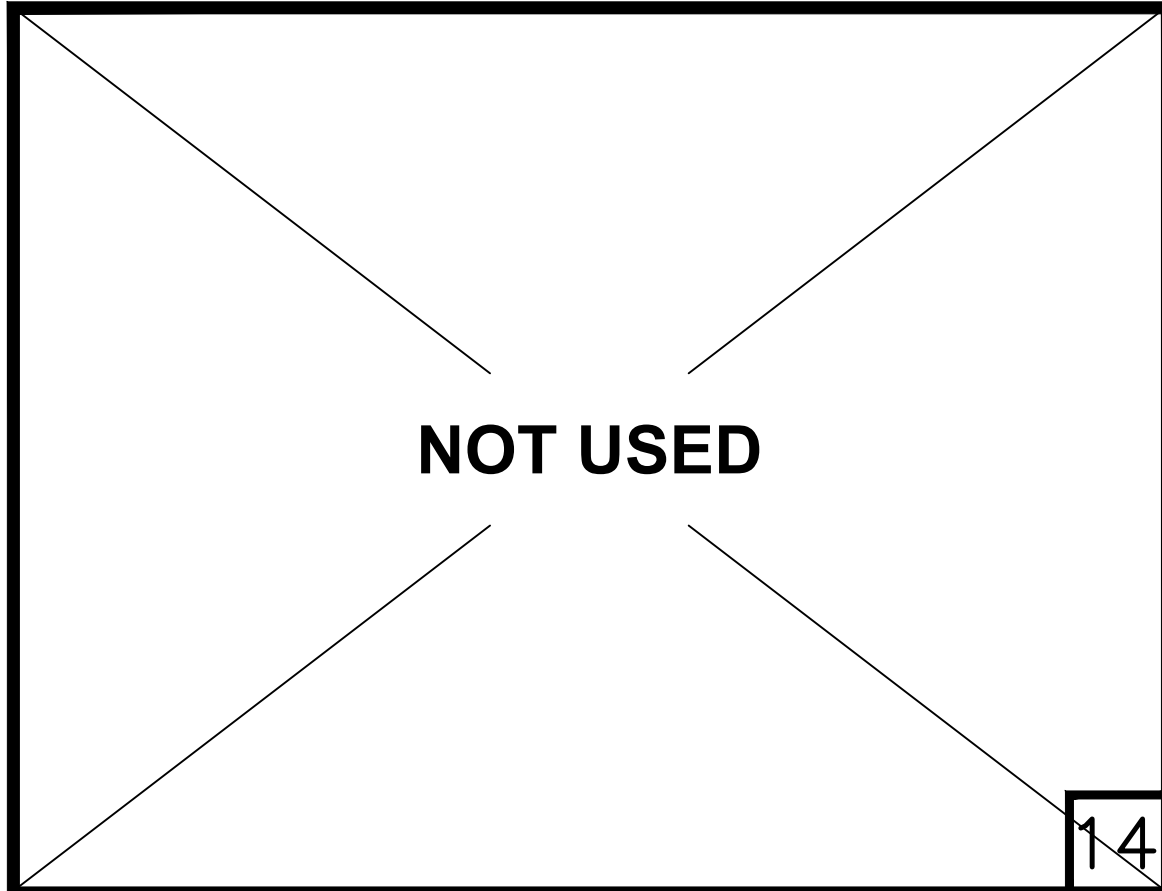
PROJECT NO.:  
DRAWN BY:  
SCALE: AS NOTED  
DATE: 09.20.22  
SHEET NUMBER

P2.0B-PS









KEY NOTES

1. #5 REBAR

2. #4 REBAR @ 24" OC

3. REBAR CAGE - #5 VERTICALS WITH #5 HORIZONTAL REBAR (90° BENDS AT EACH END) SPACED 12" OC MAX

4. REBAR - (2) #5 CONTINUOUS TOP AND BOTTOM, MIN. 1 1/2" APART

5. REBAR - (1) #5 CONTINUOUS TOP AND BOTTOM

6. REBAR - (1) #3 VERT @ 24" OC (CENTERED IN STEM WALL)

7. REBAR - (1) #5 CONTINUOUS AT BOTTOM

8. (3) #5 AT TOP AND BOTTOM

9. STEEL PERIMETER FRAME - END CHANNEL

10. STEEL PERIMETER FRAME - SIDE CHANNEL

11. REBAR - #4 TIES @ 8" OC

12. REBAR - (2) #4 TIES AT TOP 5", MIN. 1 1/2" APART.

13. REBAR - #5 EA WAY (SEE SCHEDULE ON FOUNDATION PLAN FOR AMOUNT)

14. REBAR - (4) #5 VERT

15. FELT EXPANSION JOINT (NOT BY BUILDING MANUFACTURER)

16. MOW STRIP/CONCRETE SIDEWALK (NOT BY BUILDING MANUFACTURER)

17. 22 GA GALVANIZED SHEET METAL FLASHING EXTEND 6" BELOW PERIMETER FRAME

18. ANCHOR PLATE PER DETAIL #6, F.O.O.

19. NOT USED

20. NOT USED

21. REBAR - (4) #4 AT TOP STEMWALL AT EACH SIDE OF BOLT SPACED 1-1/2" CLR OF EACH REBARS

22. WHEN STEM WALL HEIGHT ABOVE FOOTING EXCEEDS 24", PROVIDE (1) ADDITIONAL #5 REBAR AT MID-HEIGHT OF STEM WALL

23. L-4" X 6" X 3/8" THICK STEEL EMBEDMENT PLATE

24. 3/4" MIN ALL THREAD (SEE SHEET S.O.0 FOR ANCHORAGE BOLT MIN GRADE) WELDED TO STEEL PLATE AT ONE END AND DOUBLE NUT WITH 1/4" THICK WASHER AT THE OTHER END

25. (4) #3 HAIR PIN TIES GRADE 60 ANCHOR REINFORCING, MIN 24" LAP AT EACH HAIR PIN

PROJECT SPECIFIC STATE AGENCY APPROVAL

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 02-120552 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 12/28/2022

GLOBAL MODULAR

INCORPORATED

MODULAR STRUCTURES INTERNATIONAL, INC.

DESIGN

CONTRACTORS LICENSE #837357

NORTHERN CALIFORNIA DIVISION

450 COMMERCE AVE

ATWATER, CA 95301

PHONE: (209) 676-8029

FAX: (209) 676-8067

WEBSITE: WWW.GMUNET

SOUTHERN CALIFORNIA DIVISION

1860 CHICAGO AVE., SUITE 1-7

RIVERSIDE, CA 92507

PHONE: (951) 686-3633

FAX: (951) 686-3666

WEBSITE: WWW.GMUNET

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PROJECT NAME: 36'X40'

MERCED COLLEGE

LOS BANOS DAY CARE

22240 CA-152

LOS BANOS, CA 93635

SHEET TITLE:

FLUSH TO GRADE CONCRETE FOUNDATION DETAILS

PRE-CHECK (PC) DOCUMENT

CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MFR. STRUCTURAL ENGINEER OF RECORD ON PC

MFR. PROJECT SPECIFIC PROFESSIONAL OF RECORD

ARCHITECT OF RECORD

ARCHITECT

ROBERT ESPINOZA

C-14456

2/2023

STATE OF CALIFORNIA

REVISIONS

-

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PROJECT NO.: 00-0000

DRAWN BY: 00

SCALE: AS NOTED

DATE: 00-00-00

SHEET NUMBER

F3.0







920 CITRUS AVE. RIVERSIDE, CA. 92507  
(909) 788-3035

[illegible]

## STATE AGENCY STA

PROJECT	TITLE	COVER SHEET
TERRE NOVA MODULAR CLASSROOM BUILDINGS		

P	JOB #	03-1003
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DATE 5-6-03

DRAWN BY ..

SCALE

APPROVED

REVISIONS

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SHEET NO.

25

155



## GENERAL SPECIFICATIONS

### SECTION 1.1 GENERAL

- THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THE GENERAL REQUIREMENTS APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH SECTION.
- 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.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 19, AND THE CALIFORNIA CODE OF REGULATIONS (C.C.R.) CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE DISTRICT ARCHITECT.

### 2. SCOPE OF WORK

- THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT, AND INSTALLING ON-SITE MODULAR RELOCATABLE BUILDING AS DETAIL, DESIGN AND SHOWN AND DETAIL ON DRAWINGS.
- ALL REQUIREMENTS OF TITLE 19 AND 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS (C.C.R.) RELATING TO INSPECTIONS AND TESTS SHALL BE COMPLIED WITH AND SHALL BE REQUIRED.
- GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.
- INSPECTION IN PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPOINTED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED MECHANICAL AND ELECTRICAL WORK DONE BY THE MANUFACTURER. INSPECTIONS SHALL BE DONE BY THE SCHOOL DISTRICT.
- ON-SITE INSPECTION OF THE BUILDING INSTALLATION. ELECTRICAL AND MECHANICAL WORK SHALL BE DONE BY THE MANUFACTURER. INSPECTIONS SHALL BE DONE BY THE SCHOOL DISTRICT.
- OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.

### 3. WORK NOT INCLUDED

- ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS OTHERWISE SPECIFIED.
- ALL LEAVING, GRADING OR OTHER SITE PREPARATION EXCEPT FOR THE FOUNDATION. GRADING SHALL BE DONE BY THE MANUFACTURER. INSPECTIONS SHALL BE DONE BY THE SCHOOL DISTRICT.
- ON-SITE INSPECTION OF THE BUILDING INSTALLATION. ELECTRICAL AND MECHANICAL WORK SHALL BE DONE BY THE MANUFACTURER. INSPECTIONS SHALL BE DONE BY THE SCHOOL DISTRICT.

### 4. UTILITIES AND ETC.

- SHALL BE THE PROPERTY OF THE CONTRACTOR.
- SHALL BE THE PROPERTY OF THE CONTRACTOR.

### 5. ACCESSIBILITY OF SITE

- THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF THE BUILDING. ACCESS SHALL BE PROVIDED FOR THE INSTALLATION OF THE BUILDING. ACCESS SHALL BE PROVIDED FOR THE INSTALLATION OF THE BUILDING.

### 6. GENERAL CONSTRUCTION

- STRUCTURAL FRAME - EACH MODULE SHALL BE DESIGNED AS A MODULAR FRAME STRUCTURE TO WITHSTAND VERTICAL AND HORIZONTAL LOADS AND TO BE TRANSPORTED BY THE DIVISION OF THE STATE ARCHITECT. THE NECESSARY PROVISIONS ARE INCORPORATED INTO THE STRUCTURAL FRAME IN SECTIONS NOT EXCEEDING 12 FEET IN WIDTH.
- FLOOR - THE FLOOR SHALL BE STEEL FRAMING WITH A DESIGN LOAD OF 120 PSF. THE FLOOR SHALL BE STEEL FRAMING WITH A DESIGN LOAD OF 120 PSF. THE FLOOR SHALL BE STEEL FRAMING WITH A DESIGN LOAD OF 120 PSF.

### 7. EXTERIOR WALLS AND ROOF

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR THE EXTERIOR WALLS AND ROOF. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR THE EXTERIOR WALLS AND ROOF.

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### 21. EXTERIOR WALLS AND ROOF

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- PLYWOOD FLOOR DECKING - APA STURD-I-FLOOR 48" O.C. 1-1/8" THICK AND GROUND FLOOR SHEATHING.
- EXTERIOR WALLS - GALVALUM - 24 GA. EXTERIOR, M.D.O.
- EXTERIOR WALLS - GALVALUM - 24 GA. EXTERIOR, M.D.O.
- EXTERIOR WALLS - GALVALUM - 24 GA. EXTERIOR, M.D.O.
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- EXTERIOR WALLS - GALVALUM - 24 GA. EXTERIOR, M.D.O.
- EXTERIOR WALLS - GALVALUM - 24 GA. EXTERIOR, M.D.O.

### 3. WORKMANSHIP

- FRAMING - SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK OUT, FITTED AND ASSUMED LEVEL, PLUMB AND TRUE TO LINE. TRIM TO AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
- NAILING - IN ACCORDANCE WITH TITLE 24 C.C.R. - TABLE 23-II-B-1. NAILS SHALL BE CORROSION RESISTANT BOX NAILS.
- EXTERIOR WALLS - FACTORY FABRICATED, GALVALUM PROVIDED. BETWEEN PERIMETER OF WALLS AND STRUCTURAL MEMBERS PROVIDING WEATHERPROOF AND WATERIGHT SEAL. NECESSARY CLOSURES, FLASHING, PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
- MAINTENANCE - SHALL HAVE PRIOR DEMONSTRATION AND APPROVAL BY D.S.A. FIELD INSPECTOR AND THE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUOUS SATISFACTORY PERFORMANCE. PLYWOOD SHALL HAVE A MINIMUM THICKNESS OF 3/8". 1/2" NAILHEADS. THE COVER SHALL BE MORE THAN NAIL. THE NORMAL FOR A PERMANENT OR REMOVABLE ALLOWABLE EDGE DISTANCES ARE NOT MORE THAN 1/4" FROM EDGES. THE PERFORMANCE SHALL BE UNSATISFACTORY. THE PERFORMANCE SHALL BE UNSATISFACTORY. THE PERFORMANCE SHALL BE UNSATISFACTORY.
- TRIM - SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SINKING.
- RETENTION - ALL BOLTS BEFORE CLOSING IN.
- THE DESIGN MOISTURE CONTENT OF LUMBER IS 19% OR LESS. BEFORE FABRICATION, OTHER DESIGN TRIM CHANGE ORDER WILL BE REQUIRED.

### SECTION 7B. SHEET METAL

#### 1. SCOPE OF WORK

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.

#### 2. MATERIALS

- SHEET METAL - STEEL SHEETS NOT DTP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A123.
- SEAM - OF STANDARD BRAND, GRADE A OF EQUAL PARTS.
- FLUX - ZINC SATURATED MURIATIC ACID.

#### 3. WORKMANSHIP

- SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES. DETAIL WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR FLASHING SHALL BE INSTALLED TO MAKE BUILDING WATERIGHT. PROVIDER FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK. PROVIDER FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK.

### SECTION 7C. SEALANT

#### 1. SCOPE OF WORK

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

#### 2. MATERIALS

- SEALANT - POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL OR APPROVED EQUAL TO BE USED @ ALL STANDING SEAM ROOFING DETAILS.
- SEALANT - POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL OR APPROVED EQUAL TO BE USED @ ALL STANDING SEAM ROOFING DETAILS.

### SECTION 8B. HOLLOW METAL DOORS & FRAMES

#### 1. SCOPE OF WORK

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS & FRAMES.

#### 2. MATERIALS

- DOORS - TYPE 1 FULL FLUSH INSULATED, MANUFACTURED BY "STEELCORP" OR APPROVED EQUAL, 18 GA. 1-3/4" THICK.
- FRAMES - 16 GA. GOLD ROLLED 2" FACES.

### SECTION 8D. FINISH HARDWARE

#### 1. SCOPE OF WORK

- CONTRACTOR SHALL SUPPLY AND INSTALL HARDWARE AS SPECIFIED AND AS INDICATED ON THE DRAWINGS.

#### 2. DOOR SCHEDULE

#### SEE SHEET G-2

### SECTION 8E. SPECIAL REQUIREMENTS

- CONTRACTOR FOR EXTERIOR DOORS SHALL BE SET FOR A MAXIMUM OF 5 LBS. PRESSURE.
- DOORS SHALL BE NOT OPERABLE WITH A SINGLE HAND OR OTHER MEANS.
- HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE FINISHED FLOOR.
- ALL EXIST DOORS SHALL BE OPENABLE FROM INSIDE WITHOUT ANY EFFORT, SPECIAL TOOL, OR KNOWLEDGE.

### SECTION 8F. PAINTING

#### 1. SCOPE OF WORK

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT THE BUILDING ELEMENTS AS SHOWN ON THE DRAWINGS AND RAMP SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS.

#### 2. MATERIALS

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

#### 3. WORKMANSHIP

- EXTERIOR - WOOD TRIM AND SKIRTING - APPLY TWO COATS OF EXTERIOR FLAT ACRYLIC PAINT SPRAYED ON.
- INTERIOR TRIM - TRIM NOT PRECOATED SHALL BE PAINTED WITH TWO COATS OF INTERIOR LATEX OVER PRIMER.
- ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKID FINISH PAINT OVER PRIMER.
- RAILS - ONE COAT OF NON-SKID SURFACING.

### SECTION 13F. SITE ASSEMBLY

#### 1. SCOPE OF WORK

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO THE BUILDING ELEMENTS. TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE.

- THE LOCATION OF THE SITE, SUCH AS BRIDGE AND SOIL BEARING CAPACITY SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

#### 2. ASSEMBLY OF ELEMENTS

- IN A LOCATION AS DETERMINED BY THE SCHOOL DISTRICT. TO THE BUILDING ELEMENTS. TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE.
- THE ELEMENTS TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY THE ELEMENTS.
- CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTIONS, FLASHING, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

### SECTION 15A. MECHANICAL

#### 1. SCOPE OF WORK

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE MECHANICAL SYSTEM AS SHOWN ON THE DRAWINGS. INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTATS, DUCTS TO THE ROOMS, AND TO LOSE 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 MANUFACTURER'S INSTRUCTIONS.

### SECTION 16A. ELECTRICAL

#### 1. SCOPE OF WORK

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR THE ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT INCLUDING ELECTRICAL WIRING, LIGHTING, AND OTHER ELECTRICAL SYSTEMS. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF ELECTRICAL SYSTEMS.

- MATERIALS - ALL NEW COMPLYING WITH REQUIREMENTS OF CBC AND NFPA
- ELECTRIC METALLIC TUBING - COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARDIZED
- PANELBOARDS - FLUSH MOUNTED WITH HINGED DOORS AND INDEXED CARD HOLDERS
- CONDUCTORS - COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE - #12
- RECEPACLES - GENERAL ELECTRIC 242-2 OR EQUAL, +10"
- CLOCK RECEPTACLE - CABLE OR EQUAL
- SWITCHES - GENERAL ELECTRIC 8001-2 OR EQUAL, +10"
- 24" FLUORESCENT DISCS IN 180° FIXTURE ACROB PRISMATIC
- LENS, DISC, BALLAST, WIRING - ENERGY EFFICIENT (3) 34 WATT T-12 TUBES WEIGHT 27 LBS.

### 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. SPICES WORK PIERING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERIGHT CONDITION.

### MAINT. SCHEDULE

- JUST OR RATTERS TO SIDES OF STUDS, 8" JOIST OR LESS (3) 160" FOR EACH ADDITION 4" IN DEPTH OF JOIST (1) 160"
- BRIDGING TO JOIST, TOENAILS EACH END (2) 84"
- A BLOCKING BETWEEN JOIST OR RATTERS TOENAILS EACH END, EACH END (2) 100"
- BLOCKING BETWEEN STUDS, EA. END (2) 164 OR (2) 100 TOENAILS

- SOLE PLATE TO JOIST OR BLOCKING FACE NAIL 164 AT 16" O/C
- TOE PLATE TO STUD, END NAIL (2) 164"
- STUD TO SOLE PLATE (4) 84 TOENAILS OR (2) 164 ENDNAIL
- DOUBLE STUDS, FACE NAIL 164 AT 24" O/C
- DOUBLE TOP PLATES, FACE NAIL 164 AT 16" O/C
- DOUBLE TOP PLATES, LAP SPACING (8) 164"

- CONTINUOUS HEADER, TWO PIECES 164 AT 16" O/C ALONG EACH EDGE
- CEILING JOIST TO PLATE, TOENAIL (3) 84"
- CONTINUOUS HEADER TO STUD, TOENAIL (4) 84"
- CEILING JOIST, LAPS OVER PARTITIONS, FACE NAIL (3) 164"
- CEILING JOIST TO PARALLEL BATTERS FACE NAIL (3) 164"
- JOIST OR RATTERS AT ALL BEARINGS, TOENAILS EACH SIDE (2) 100"

- 1" BRACE TO EA. STUD AND PLATE, FACE NAIL (2) 84"
- BUILT UP CORNER STUDS 164 AT 24" O/C

### PLYWOOD

- SUBFLOOR, ROOF AND WALL SHEATHING TO FRAMING?
- 1/2" OR LESS 64"
- 1/2" OR LESS 64"
- 1/2" OR LESS 64"
- 1/2" OR LESS 64"
- 1/2" OR LESS 64"
- 1/2" OR LESS 64"
- 1/2" OR LESS 64"
- 1/2" OR LESS 64"
- 1/2" OR LESS 64"

- COMBINATION SUBFLOOR/UNDERLAYMENT TO FRAMING: 3/4" OR LESS 64"
- 1/8" - 1 1/4" 104" OR 84"
- 1/8" - 1 1/4" 104" OR 84"
- 1/8" - 1 1/4" 104" OR 84"
- 1/8" - 1 1/4" 104" OR 84"
- 1/8" - 1 1/4" 104" OR 84"
- 1/8" - 1 1/4" 104" OR 84"
- 1/8" - 1 1/4" 104" OR 84"
- 1/8" - 1 1/4" 104" OR 84"
- 1/8" - 1 1/4" 104" OR 84"

- PANEL SIDING TO FRAMING: 1/2" OR LESS 64"
- 3/8" 84"

### FOOTNOTES

- COMMON OR BOX NAILS MAY BE USED, EXCEPT WHERE OTHERWISE STATED.
- 2x4s SPACED AT 6" O/C AT EDGES, 12" O/C AT INTERMEDIATE SUPPORTS EXCEPT 6" O/C AT ALL SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING PLYWOOD DIAGRAMMS AND SHEAR WALLS, REFER TO SECTION 2315A.3.3 & 2315A.4. NAILS FOR WALL SHEATHINGS MAY BE COMMON, BOX OR 24x4s.
- COMMON OR DEFORMED SHANK.
- COMMON
- DEFORMED SHANK.
- CORROSION RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQ. OF SECTION 2304A.3.
- FASTENERS SPACED 3" O/C AT EXT. EDGES AND 6" O/C AT INTERMEDIATE SUPPORTS.
- CORROSION RESISTANT ROOFING NAILS WITH 7/16" HEAD AND 1 1/2" LENGTH FOR 1/2" SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304A.3.
- CORROSION RESISTANT STAPLES WITH NOMINAL 7/16" CROWN AND 1 1/8" LENGTH FOR 1/2" SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304A.3.
- PANEL SUPPORTS AT 16", CASING OR FINISH 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.
- WHEN POSSIBLE, NAILS DRIVEN PERPENDICULAR TO THE GRAIN SHALL BE USED INSTEAD OF TOENAILS.

### A. MATERIALS AND WORKMANSHIP

- ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED.

- 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.

### B. GENERAL DESIGN REQUIREMENTS

- EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH A METAL IDENTIFICATION TAG 3" x 1 1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:  
A. D.S.A. APPROVAL NUMBER  
B. DESIGN FLOOR LIVE LOAD  
C. DESIGN ROOF LIVE LOAD  
D. DESIGN WIND LOAD  
E. BUILDER'S NAME  
F. PLANT INSPECTOR/D MARK

- 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 12'-0" WIDE MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE JACK LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE LIFTED 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.

- FRAMING MEMBERS SHALL BE OF THE GRADE AND SIZE CALLED FOR ON THE STRUCTURAL PLANS.

- 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 U.B.C. STANDARD NO. 14.1. FOR ROOF WATERPROOF FELT BARRIER SHALL BE FREE FROM HOLES AND BREAKS OTHER THAN THOSE CREATED BY FASTENERS AND CONSTRUCTION SYSTEM DUE TO ATTACHING OF THE BUILDING PAPER.

- ALL HORIZONTAL JOINTS IN SIDING SHALL BE PROTECTED BY GALVANIZED 2 BAR-3/4 x 5/8 x 3/4" FLASHING.

- FLASHING NEED NOT BE USED WHERE SKIRTING MEETS THE UNDERSIDE OF AN EXPOSED METAL FRAME AND THE SKIRTING IS RECESSED SUFFICIENTLY TO PROTECT THE TOP EDGE OF PLYWOOD.

- 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 C.B.C.

- ENTRY LANDING AND RAMP: EACH MODULE SHALL HAVE A LANDING(S) AND RAMP(S) TO CONFORM TO TITLE 24, C.B.C. SECTION 7007. THE LANDING(S) AND RAMP(S) STRUCTURE INCLUDING HANDRAIL AND WHEEL GUIDES, PRE-FABRICATED METAL LANDING AND RAMP SHALL BE BUILT-IN SECTIONS THAT ARE DEMOUNTABLE FOR MOVING AND REINSTALLATION AT A NEW SITE. THERE SHALL BE SUFFICIENT CROSS BRACING UNDER THE RAMP SURFACE TO PREVENT BOUNCING OR OIL CANNING OR THE RAMP SURFACE. DESIGN SHALL BE SUCH THAT HEIGHT ADJUSTMENT CAN BE MADE AT THE INSTALLATION SITE.

- RAMP SHALL HAVE SKID RESISTANT METAL OR WOOD SURFACE.

- ELECTRICAL MATERIALS: ALL ELECTRICAL WIRING 110V AND GREATER SHALL BE IN CONDUIT SYSTEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF C.E.C. MINIMUM SIZE CONDUIT IS 1/2" MIN.

- ACCEPTABLE CONDUIT: RIGID ELECTRICAL METALLIC TUBING (EMT); GALVANIZED THIN WALL FLEXIBLE (INTERIOR); GALVANIZED STEEL FLEXIBLE (EXTERIOR); GALVANIZED STEEL WITH FACTORY APPLIED PVC TO THE REQUIREMENTS OF SECTION 2304A.3.

- ALL CONDUITS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND SHALL BE SECURED IN CONFORMANCE WITH C.E.C. FIELD BENDS MUST BE AVOIDED WHEREVER POSSIBLE. WHERE BENDS MUST BE MADE, USE AN APPROPRIATE "HOCKEY" OR BENDING MACHINE. REAM AND DEBUR ALL CONDUIT PRIOR TO INSTALLATION AND TERMINATE IN APP



### CONSTRUCTION NOTES & MATERIALS:

CHASSIS CONSTRUCTION: CHECK ONE  
BOX SIZE: 12 x40  
FRAME: PERIMETER  
MAIN RAIL/SIZE: 7"x9.8" C-CHANNEL @ PLYWOOD FLOOR ☒  
No. OF AXLES: --  
REFERENCE DETAIL SHEET: --  
MISC: --

**FLOOR FRAMING: CHECK ONE**

FLOOR LOAD: 50 PSF, 125 PSF FOR 72"x40" ONLY

JOST SIZE & GRADE: 7"x11 GA. Z-MEMBER @ PLYWOOD FLOOR ☒

JOST SPACING: SEE CHART ON FLOOR FRAMING PLAN

INSULATION: R-11 UNFACED ☒

BOTTOM ENCLOSURE: CANVEX CW-600

FLOOR DECK: PLYWOOD DECKING ☒

REFERENCE DETAIL SHEET: -

MISC.: -

EXTERIOR WALLS WOOD STUD OPTION: CHECK ONE ☐ USED ☒ NOT USED

WWD LOAD: 80 MPH EXP. C ☐

STUD SIZE & GRADE: 2"x4" H.F. #2 ☐

SPACING: 16" O.C.

SIDE WALL HEIGHT: 9'-0"

INSULATION: R-13 UNFACED ☐

FIRE RESISTIVE CONSTRUCTION: -

REFERENCE DETAIL SHEET: -

MISC.: -

**EXTERIOR WALLS STEEL STUD OPTION:** ☒ USED ☐ NOT USED

WIND LOAD: 80 MPH EXP. C ☒ OR 90 MPH EXP. C ☐

STUD SIZE & GRADE: 3 1/2" x 20 GAUGE ☒ OR 5 1/2" x 20 GAUGE ☐

SPACING: 16" O.C.

SIDE WALL HEIGHT: 9'-0"

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

FIRE RESISTIVE CONSTRUCTION:

REFERENCE DETAIL SHEET: —

MFG: —

EXTERIOR WALL SIDING: CHECK ONE

5/8" THK. DURATEMP APA RATED GROOVED @ 8" O.C. ☒

1/2" CDX PLYWOOD W/ STUCCO ON-SITE ☐

REFERENCE DETAIL SHEET: FOR STUCCO SIDING SEE DETAILS #16 & #17 SHEET G-4

MSC: I.C.B.O.# FOR DURATEMP SIDING (ER-4856)

INTERIOR WALLS: CHECK ONE

STUD SIZE & GRADE: 2"x4" H.F. #2 ☐ OR 3 1/2"x20 GAUGE STEEL STUDS ☒

STUD SPACING: 16" O.C.

PARTITION HEIGHT: TO RAFTERS ☒ OR BELOW RAFTERS ☐

INSULATION: YES ☐ OR NO ☐

FIRE RESISTIVE CONSTRUCTION: 1 HR. WALL @ STORAGE/WORKROOM, 72"x40"

REFERENCE DETAIL SHEET: —

MISC.: —

**ROOF DETAILS:**

TYPE OF DRAIN SYSTEM: 26 GA. GUTTERS AND DOWN SPOUTS

REFERENCE DETAIL SHEET: —

MISC.: \_\_\_\_\_

**ROOF FRAMING:** CHECK ONE

ROOF LOAD: 20 PSF ☒ OR 30 PSF ☐

Rafter Size/Grade: 6"x12" G.A. 7-MEMBER ☒ OR 7"x1 1/2"x11 G.A. 7-MEMBER ☐

Rafter Spacing: 48" O.C. ☐

Insulation: R-19 UNFACED ☒ OR R-30 UNFACED ☐

Finish Roofing: 22 GAUGE GALV. STANDING SEAM ROOF ☒

26 GAUGE GALV. STANDING SEAM ROOF ☐

BUILT-UP 3-PLY ROOFING ☐ EPDM W/ 1/4" DENSICORE UNDERLAYMENT ☐

ROOF SHEATING: 3/4" C-D PLYWOOD 8 MIN. 22 GAUGE ROOFING ☐

ROOF SLOPE: 1/4" PER 12" DOUBLE SLOPE

REFERENCE DETAIL SHEETS: \_

DRAFT STOP CONSTRUCTION: \_

ROOF MOUNT HVAC: ☐ YES ☒ NO

MEMO:

STEEL COLUMNS: CHECK ONE  
CORNER COLUMNS: 3 1/2"x3 1/2"x1/4" ☒ OR 4"x4"x1/4" ☐  
MIDSPAN COLUMN @ SIDEWALL: N.A.  
STEEL POST HEIGHT: 9'-0"  
REFERENCE DETAIL SHEET: \_\_\_\_\_  
MSC: (NOTE: THE STEEL POST HEIGHT IS FROM TOP OF FLOOR TO BOT. OF SIDEWALL BEAM/HEADER.)

TRUSS TYPE: 20 PSF ROOF LOAD: ☒ YES OR ☐ NO  
SERIAL WAVE TYPE: 18/23/18x3 1/2"x10 GA. CHANNEL OR DOUBLE SLOPE OR  
18/28x3 1/2"x10 GA. CHANNEL OR SINGLE SLOPE  
DOWNWALL HEADER: 18 x 3 1/2" x 12 GA. CHANNEL OR DOUBLE SLOPE AND  
18 x 28" x 3 1/2" x 12 GA. CHANNEL OR HIGH SIDE OF SINGLE SLOPE  
TRUSS CONFIGURATION @ MODUL: DOUBLE SLOPE ☒ OR SINGLE SLOPE ☐  
TOP CHORD: L 3"x3"x3/8"  
BOTTOM CHORD: L 3"x3"x3/8"  
WEBS: L 2"x2"x3/16" @ 1ST TWO BAYS, L 1 1/2"x1 1/2"x3/16" @ ALL OTHERS  
OVERHANGS: 5'-0" @ FRONT & 5'-0" @ REAR  
OVERHANG MATERIAL: L 4"x3"x3/8" OR 10"x3"x12 GAUGE C-CHANNEL ☐  
SOFFITS: OPEN SOFFITS ☐ OR CLOSED SOFFITS ☐  
REFERENCE DETAIL SHEET:  
MISC:

TRUSS TYPE 30 PSF ROOF LOAD: ☐ YES OR ☒ NO

TRUSS CONFIGURATION: DOUBLE SLOPE ☐ OR SINGLE SLOPE ☐

BREWELL BEAM TYPE: 18"x24"/18"x2 1/2" GA. CHANNEL @ DOUBLE SLOPE OR  
18"/28"x3 1/2" GA. CHANNEL @ SINGLE SLOPE

DOWEL HANGER: 18"x3 1/2" GA. CHANNEL @ DOUBLE SLOPE AND  
18"x28"x3 1/2" GA. CHANNEL @ HIGH SIDE OF SINGLE SLOPE

TRUSS TOP CHORD: 4"x3"x3/8"

TRUSS BOTTOM CHORD: 1 1/4"x3"x3/8"

TRUSS NIDS: 2"x2"x3/8" @ 1ST TWO BAYS, 1 1/2"x1 1/2"x3/16" @ ALL OTHERS

OVERHANGS: 5'-0" @ FRONT & 2'-0" @ REAR

OVERHANG MATERIAL: 1 1/2"x3"x3/8" OR 10"x3"x12 GAUGE C-CHANNEL ☐

SOFFITS, OPEN SOFFITS ☐ OR CLOSED SOFFITS ☐

REFERENCE DETAIL SHEET:  
NISC.

**SITE CONDITIONS:** CHECK ONE

FOUNDATION TYPE: WOOD PAD ☐ OR CONCRETE ☒

FLASHING REQUIRED: CONCRETE FLUSH W/ GRADE ☒ OR CONCRETE ABOVE W/ GRADE ☐

RAMP & LANDING: SEE FLOOR PLAN FOR RAMP AND LANDING

SKIRTING REQUIRED: YES ☐ OR NO ☒ DURATEMP

FITURE MOUNTING HEIGHTS: ADULT HEIGHT ☒ ELEMENTARY ☐ KIDKIE ☐

MISC:

ON-SITE SCOPE OF WORK:

1. ALL UNDER FLOOR PLUMBING FURNISHED AND INSTALLED ON-SITE.
- 2.
- 3.
- 4.
- 5.

**VARIABLE MATERIAL SPECIFICATIONS:**

ROOFING:  
FIRE RATED PER UBC STANDARD 15-2 CLASS 'A'  
BASE SHEET FINISHED GRADE 25-30# ASPHALT COATED

**MULE-HIDE EPDM MEMBRANE ROOFING SYSTEM:**  
(ETHYLENE-PROPYLENE-DIENE TERPOLYMER MEMBRANE)  
ADHESIVELY OR MECHANICALLY ATTACHED OVER INSULATED,  
COMBUSTIBLE OR NON-COMBUSTIBLE DECKS. CLASS 'A'.  
THE EPDM MEMBRANES ARE SYNTHETIC RUBBER SINGLE-PLY  
SHEETS HAVING A MIN. NOMINAL THICKNESS OF 45 MILS (1.1 MM).  
INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS.

(I.C.B.O.# ER-5867)  
1/4" DENS-DECK ROOF BOARD:  
USED AS A UNDERLAYMENT FOR THE EPDM MEMBRANE ROOFING .  
SYSTEM. FLAME SPREAD: 0, SMOKE DEVELOPED: 0 PER, ASTM E 8  
INSTALL PER ROOFING MANUFACTURER INSTALLATION INSTRUCTIONS.

**WINDOWS:**  
HORIZONTAL SLIDING , 50% VENTING, ANODIZED ALUMINUM FRAME.  
PERFORMANCE RATED PER AAMA GS101-88 FOR COMMERCIAL USE.  
MEDIUM EXPOSURE, NAIL-ON FIN FASTENED DIRECTLY TO FRAMING  
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/  
(CLASS SEE WINDOW SCHEDULE FOR SIZES).

INTERIOR WALL COVERINGS:  
APPLIED OVER MINIMUM 1/2" GYPSUM BOARD, OR MINIMUM 3/8"  
(PROVIDE BACK 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.)  
TACKBOARD: VINYL WALL COVERING TO BE CLASS I DOMITAR GYPSUM  
OR EQUAL, LAMINATED OVER 1/2" INDUSTRIAL INSULATION  
BOARD, 4'-0"x9'-0", LONG EDGES BEVELED.  
FLAME SPREAD = 65

FRP: FIBERGLASS REINFORCED PLASTIC PANELS, 4'-0"x8'-0",  
WITH COLOR MATCHED PVD MOLDINGS OVER 1/2 GYPSUM  
FLAME SPREAD AND SMOKE DEVELOPMENT, CLASS C PER ASTM-E84

CEILING TYPE:  
SUSPENDED SYSTEM, PERFORMANCE RATED ASTM C635 HEAVY DUTY  
ACOUSTIC LAY-IN CEILING PANELS:  
LIGHT REFLECTIVE LR-1, FIRE RATED CLASS-A PER ASTM E84.


VINYL FACED FIBERGLASS, 5/8" THICK, ARMSTRONG OR EQUIV.  
CLASS A: FLAME SPREAD 25 (UL LABELED) PER ASTM E 1264

CARPET:  
DIRECT GLUE-DOWN, PERFORMANCE RATED PER STATE OF CALIFORNIA  
SPECIFICATION 7220-21L-01, (GROUP I, TYPE A, CLASS 24) 4600 MIB  
DENSITY. THE CARPET IS TO HAVE A MINIMUM CRITICAL FLUX  
OF .25 WATT/CM.<sup>2</sup>

VINYL SHEET FLOORING:  
MINIMUM WEAR LAYER .050" THICK, PERFORMANCE RATED PER ASTM  
F1303-90 TYPE-III, GRADE-1, CLASS-A, AND ASTM F970 12SPS,  
FIRE RATED PER ASTM E648 FLAMMABILITY CLASS-I, AND ASTM E662  
SMOKE DENSITY MAX. 450 MIN. COEFFICIENT OF FRICTION TO BE  
0.025 TO 0.125

[illegible]

NOTE:  
FINISH WALL COVERING & FINISH CEILING SHALL BE FLAME SPREAD CLASS 1

WINDOW SCHEDULE								
	ROUGH OPENING WIDTH x HEIGHT		WINDOW SIZE	TYPE	FRAME	SCREEN	GLAZING	MANUFACTURE/SERIES/DESCRIPTION
	A	VERIFY	VERIFY	8'-0"x3'-0"	XOX	CLEAR ANODIZED ALUM. FRAME	YES	46R GREY TINT
B								
C								

DOOR SCHEDULE							
SYM.	WIDTH	HEIGHT	THK.	TYPE	FIRE RATING	GLAZING	REMARKS
1	3'-0"	6'-8"	1 3/4"	HOLLOW METAL		1B GA. METAL	1B GA. HOLLOW METAL DOOR
2	3'-0"	6'-8"	1 3/4"	SOLID CORE	1-HR.	TIMELY	PREFINISHED INTERIOR LEGACY DOOR & FRAME

ARCHITECT STAMP

DATE SIGNED  
JUN 24 2003

James L. Barry  
May 1967  
100  
100

STRUCTURAL ENGINEER STAMPIDENTIFICATION STAMP

APPL 01 105425  
AC \_\_\_\_\_ FLS \_\_\_\_\_ SS \_\_\_\_\_


STATE AGENCY STAMP

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHIVES

OFFICE OF REGULATION SERVICES  
4-104778

AC ~~\_\_\_\_\_~~ FLS ~~\_\_\_\_\_~~ SS ~~\_\_\_\_\_~~

**MSI**



**MODULAR STRUCTURES INTERNATIONAL, INC.**  
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507  
PHONE: (909) 788-3035 FAX: (909) 788-1523

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PROJECT	TITLE
TERRE NOVA CLASSROOM MODULAR BUILDINGS	BUILDING SPECIFICATIONS, CONSTRUCTION NOTES & SCHEDULES

[illegible]

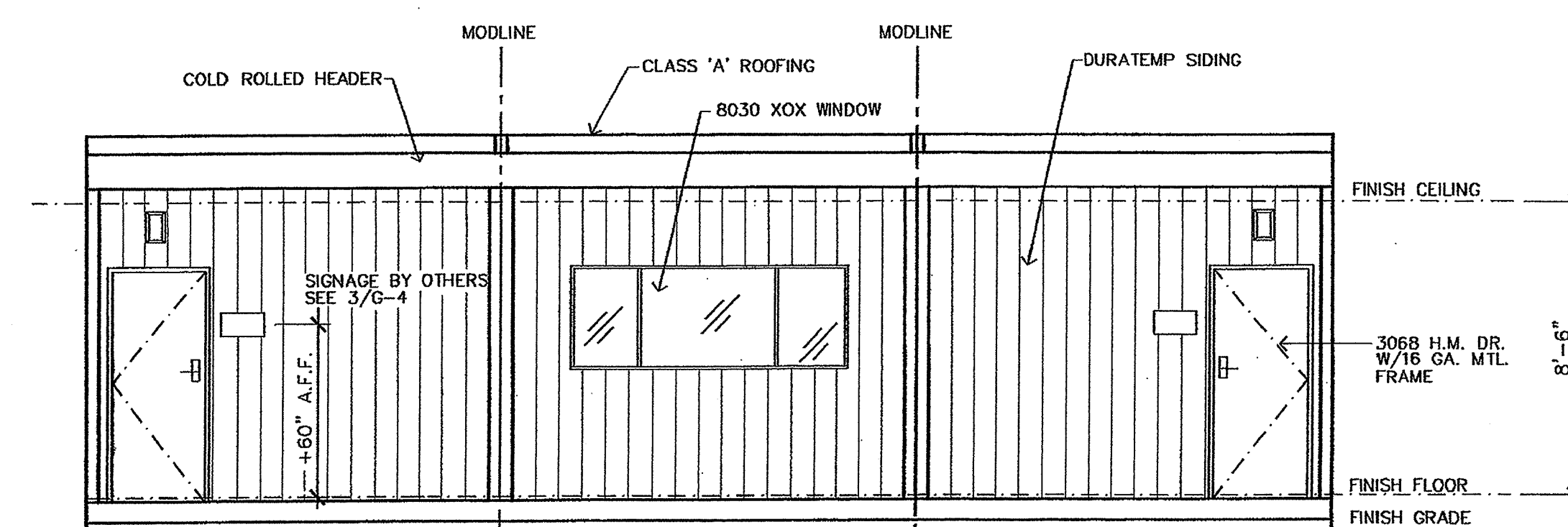


JOB # \_\_\_\_\_  
DATE \_\_\_\_\_ 12-1-02  
DRAWN BY \_\_\_\_\_ RDL  
SCALE \_\_\_\_\_ AS NOTED  
APPROVED \_\_\_\_\_  
REVISIONS \_\_\_\_\_  
  
SHEET NO. \_\_\_\_\_  
G-3

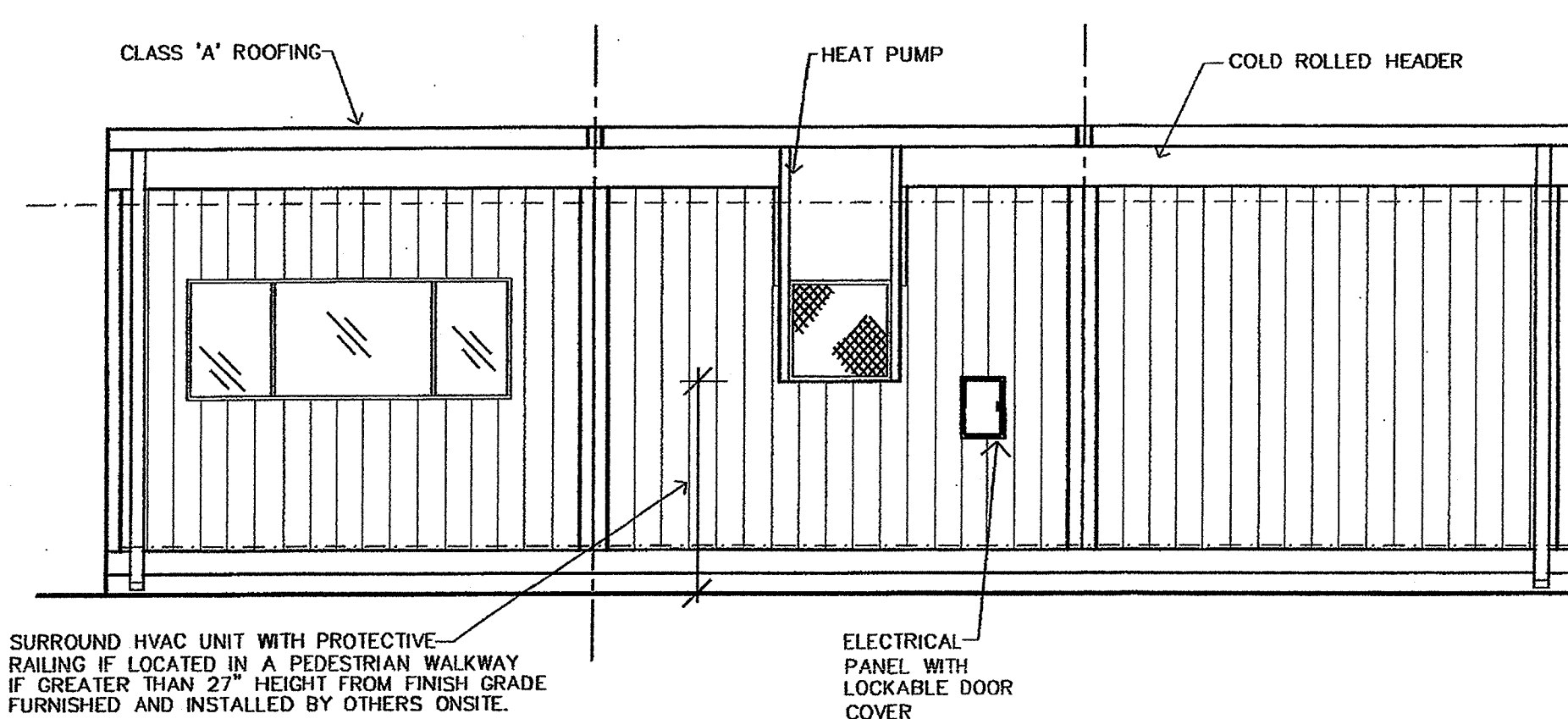




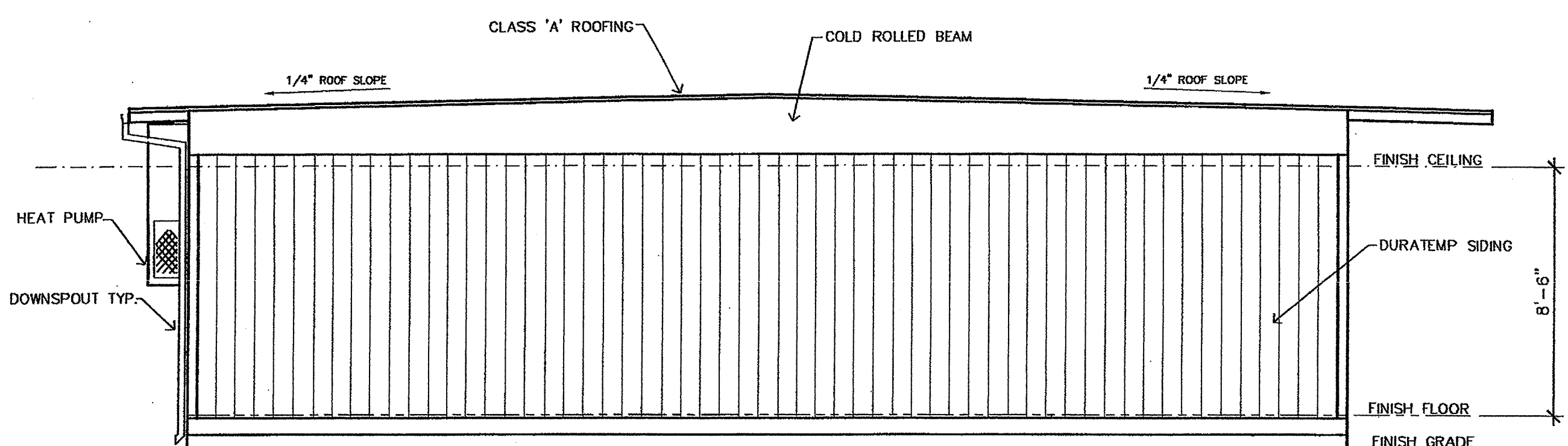




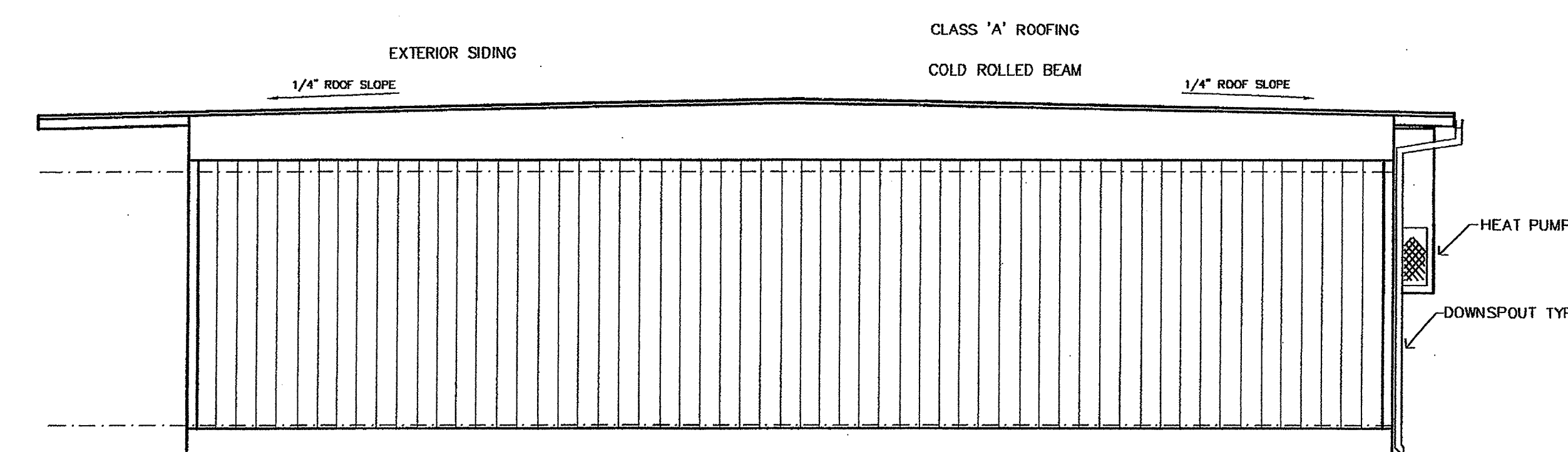
ELEVATION A



ELEVATION B



ELEVATION C



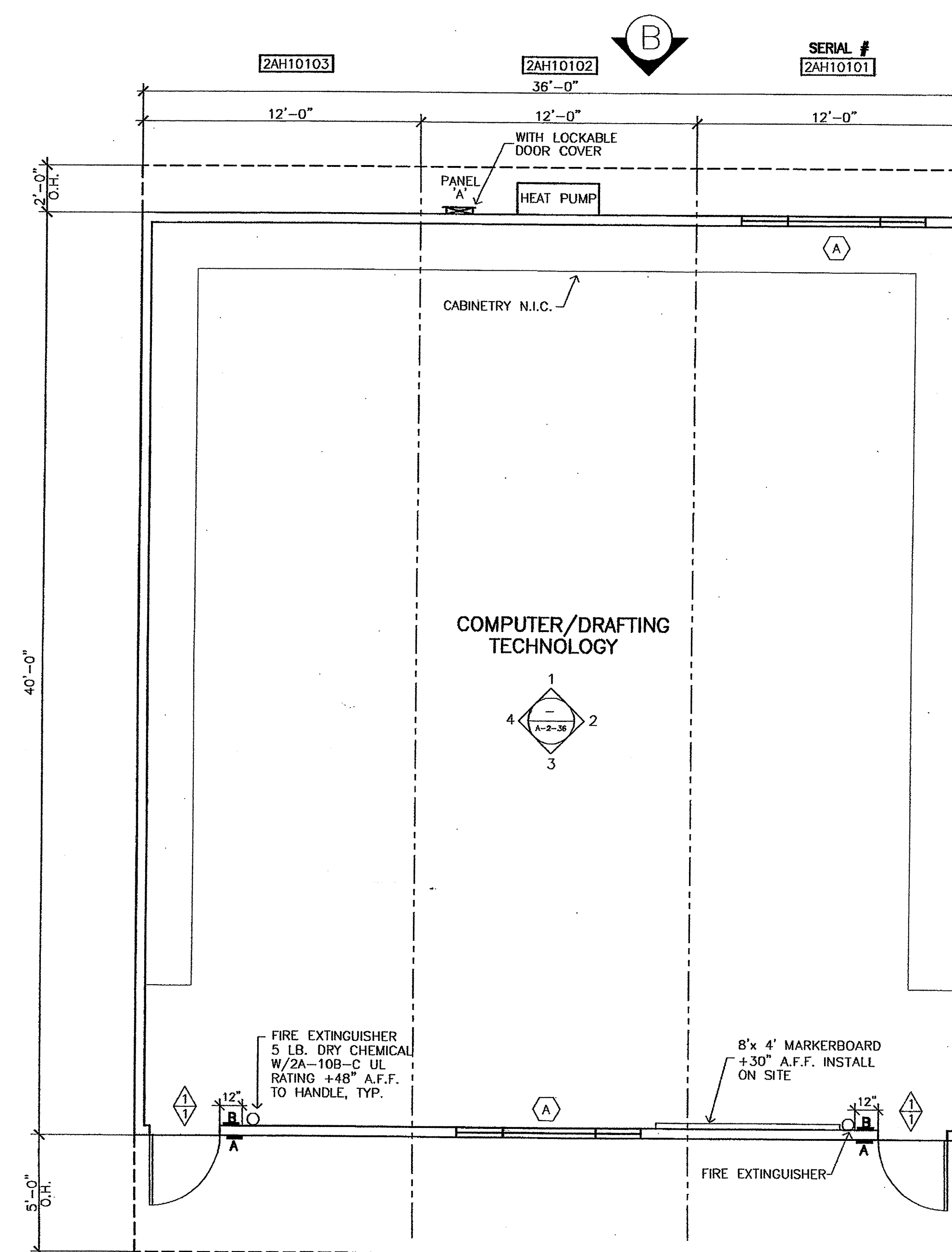
ELEVATION D

**LEGEND**  
INDICATES DOOR TYPE, SEE G-2  
INDICATES HARDWARE TYPE, SEE G-2  
INDICATES WINDOW TYPE- SEE SHEET G-2  
DETAIL #  
SHEET #  
**SIGNAGE LEGEND:**  
A: ROOM SIGNAGE PER DETAIL #3, SHEET G-4  
B: EXIT SIGNAGE PER DETAIL #3, SHEET G-4  
SEE NOTE 4 BELOW FOR SIGNAGE REQUIREMENTS

**NOTE:**  
FLOOR PLAN SHOWN IS 'B' BUILDING  
'A' BUILDING IS OPPOSITE HANDED

**NOTE:**  
PROVIDE FIRE BLOCKING  
PER C.B.C. 708

**NOTE:**  
BUILDING HOUSING GROUP 'E' OCCUPANCIES  
SHALL HAVE ROOF COVERINGS AS SPECIFIED  
IN TABLE 15A C.B.C. - CLASS 'A'

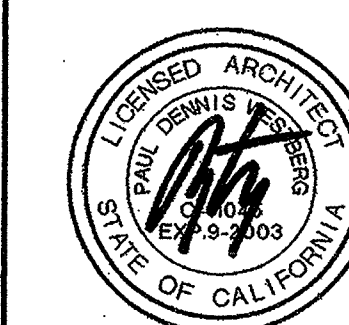


FLOOR PLAN  
SCALE: 1/4"=1'-0"

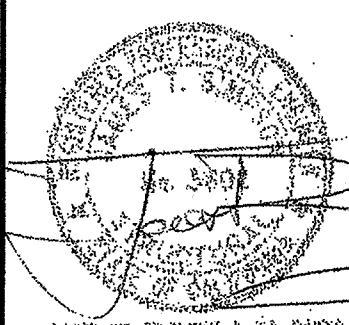
- NOTES:**
- MANUFACTURER SHALL MECHANICALLY ATTACH METAL TAG TO EXTERIOR OF BUILDING SHOWING DSA APPLICATION NUMBER, MANUFACTURER'S NAME, UNIT SERIAL NUMBER, DESIGN LIVE LOADS FOR FLOOR AND ROOF, AND THE DESIGN WIND LOAD.
  - WALL AND CEILING FINISHES SHALL BE MIN. CLASS I MATERIAL.
  - FIBERGLAS INSULATION SHALL HAVE THE FOLLOWING:  
FLAME SPREAD 0-25  
SMOKE DEVELOPED, FUEL CONTRIBUTED 0-450
  - SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON SHEET CS PROVIDED AND INSTALLED BY OTHERS ONSITE. SEE #3/G-4
  - ANY ROOM HAVING AN OCCUPANT LOAD OF 50 OR MORE WHERE FIXED SEATS ARE NOT INSTALLED, AND WHICH IS USED FOR CLASSROOM, ASSEMBLY, DINING OR SIMILAR PURPOSE SHALL HAVE THE CAPACITY OF THE ROOM POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT OF THE ROOM. POSTING SHALL BE BY MEANS OF A DURABLE SIGN HAVING CONTRASTING COLOR FROM THE BACKGROUND TO WHICH IT IS ATTACHED.
  - MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT TO EXCEED 15 POUNDS.
  - PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD 50 OR GREATER, CBC 1007.3.10

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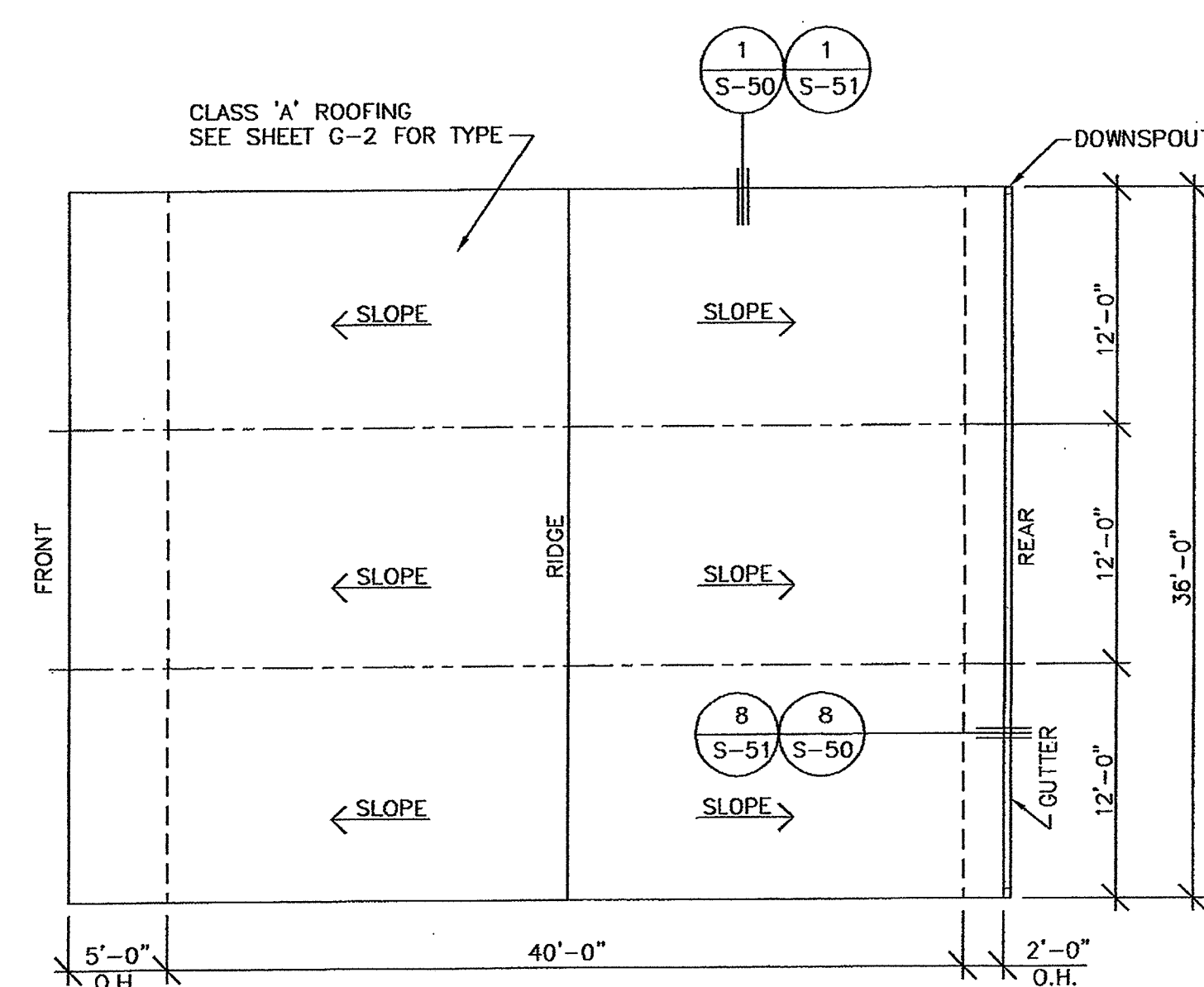
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DIVISION OF THE STATE ARCHITECT  
APP: 02-120552 INC.  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022

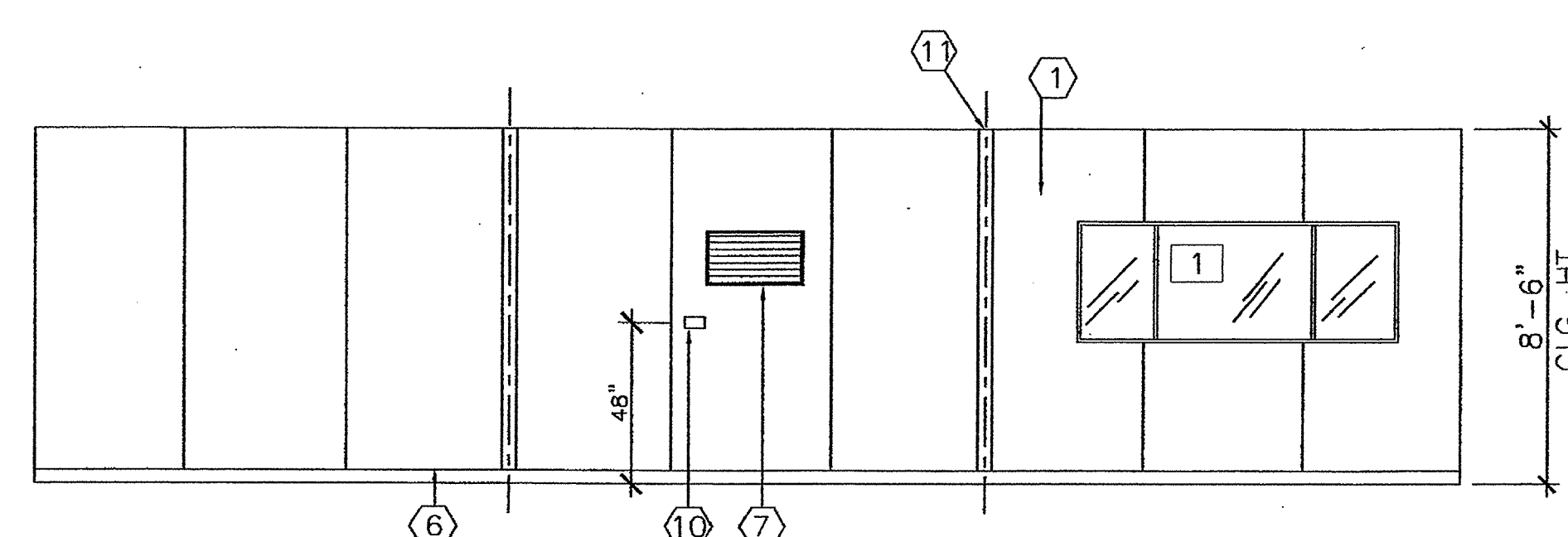
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DIVISION OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
4-104778  
DATE: 12/28/2022

**PROJECT**  
36'x40'  
COMPUTER/DRAFTING TECHNOLOGY  
**JOB #**  
03-1003  
**DATE**  
5-6-03  
**DRAWN BY**  
db  
**SCALE**  
1/4"=1'-0"  
**APPROVED**  
**REVISIONS**  
**SHEET NO.**  
A-1.1-36

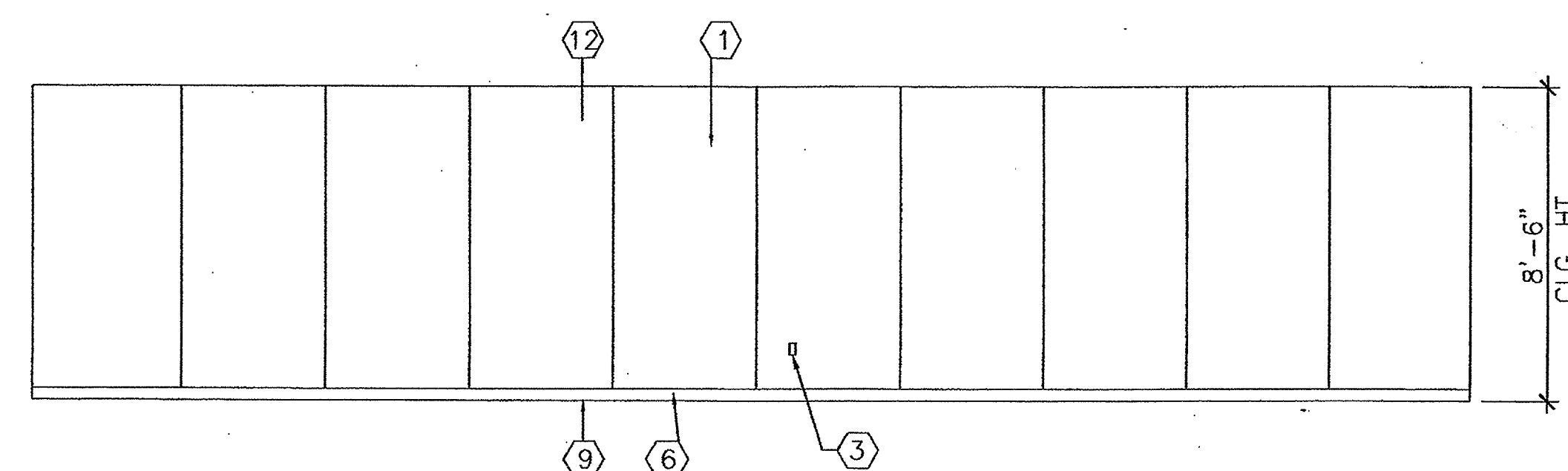




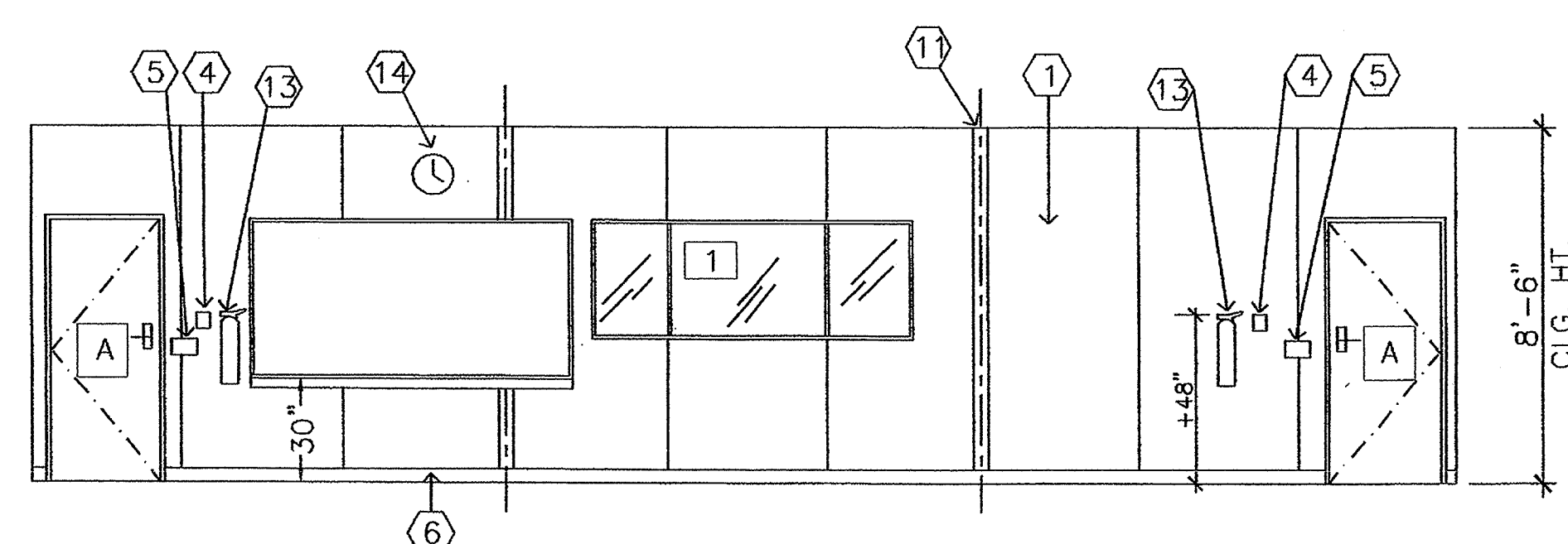
DUAL PITCH ROOF PLAN  
SCALE: 1/8"=1'-0"



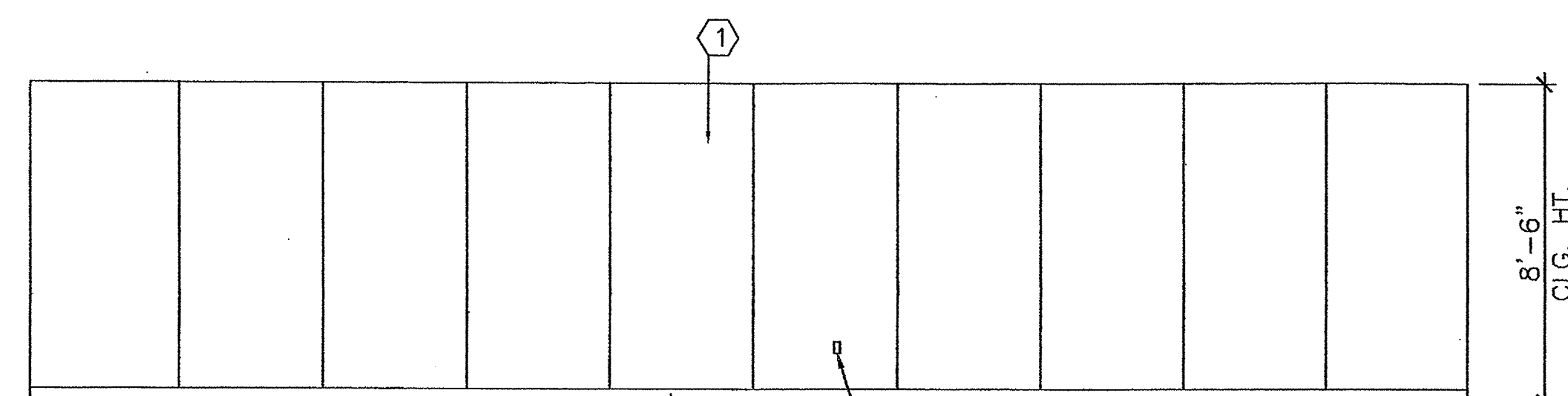
INTERIOR ELEVATION #1  
SCALE: 1/4"=1'-0"



INTERIOR ELEVATION #2  
SCALE: 1/4"=1'-0"



INTERIOR ELEVATION #3  
SCALE: 1/4"=1'-0"



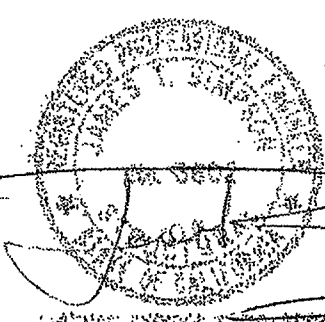
INTERIOR ELEVATION #4  
SCALE: 1/4"=1'-0"

KEYNOTES:

- A- EXTERIOR DOOR
- 1 EXTERIOR WINDOW
- 1 TYPICAL INTERIOR FINISH
- 2 CLOSURE AT MODULAR JOINT
- 3 DUPLEX WALL RECEPTACLE +18" A.F.F. (SEE POWER PLAN)
- 4 FIRE ALARM PULL STATION (SEE POWER PLAN)
- 5 LIGHT SWITCH (SEE LIGHTING PLAN)
- 6 TOP SET BASE (TYPICAL) SEE FINISH SCHEDULE
- 7 RETURN AIR GRILL
- 8 NOT USED
- 9 FINISH FLOOR
- 10 THERMOSTAT SEE MECHANICAL PLAN
- 11 MODULAR JOINT
- 12 (1) 8'-0" x 4'-0" MARKERBOARD
- 13 FIRE EXTINGUISHER
- 14 12" DIA. ELECTRIC CLOCK  
(SEE ELECTRICAL POWER PLAN)

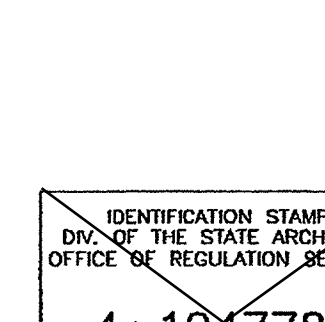
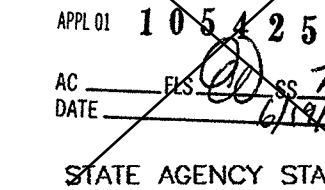


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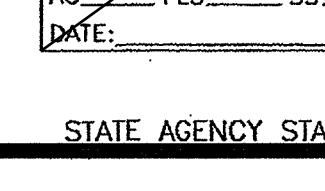



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36' x 40'  
COMPUTER/DRAFTING  
TECHNOLOGY

PROJECT	TITLE	36 & DO
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JOB # 03-1003

DATE 5-6-03

DRAWN BY ..

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

**APPROVED**

## REVISIONS

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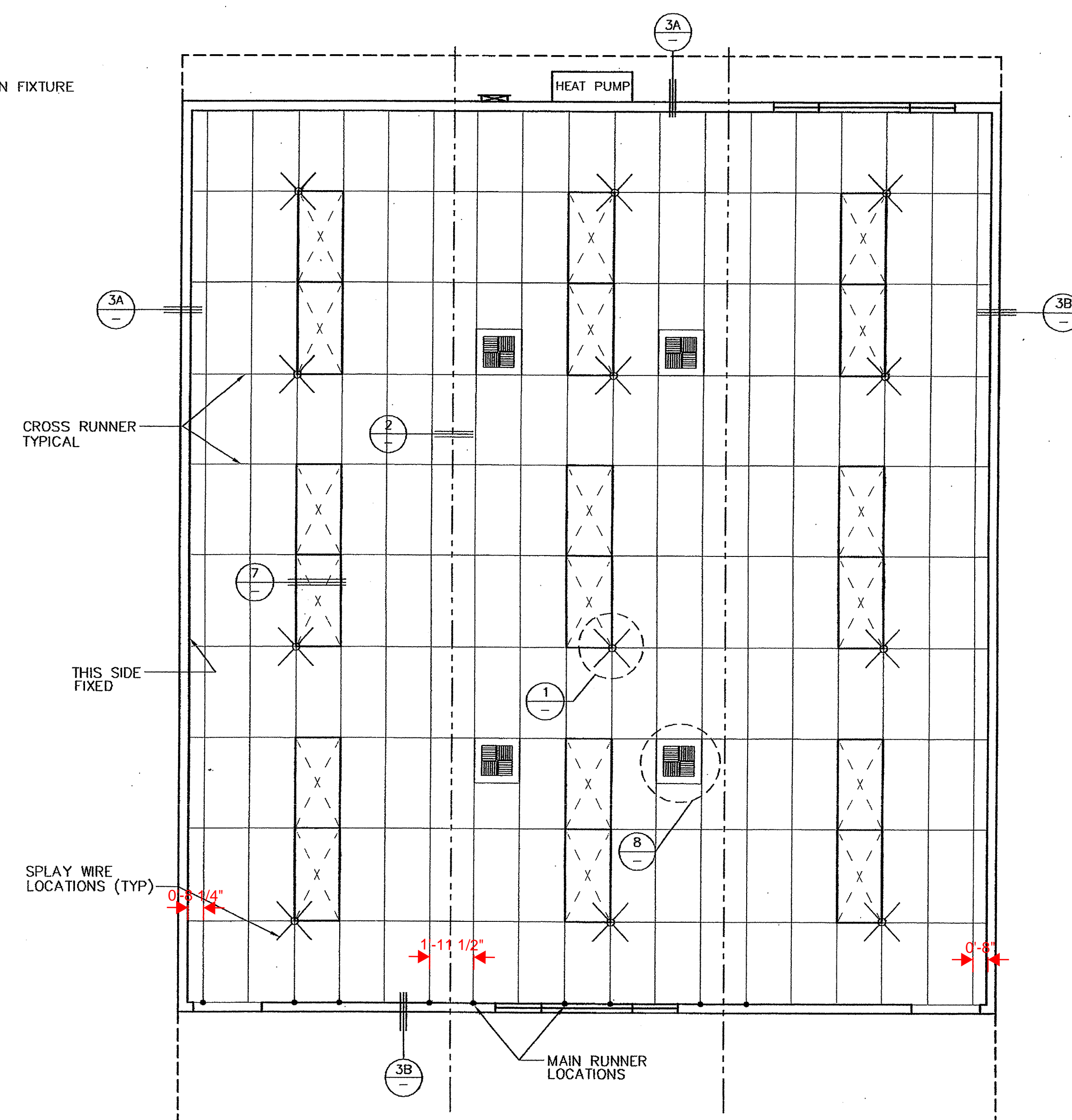




## SUPPLY AIR DIFFUSERS

2'x 4' FLUORESCENT DROP-IN FIXTURE

#### 4-WAY SPLAY WIRE SYSTEM



REFLECTED CEILING PLAN

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

## KEY NOTES

- |   |  |    |   |    |   |
|---|--|----|---|----|---|
| 1 | MAIN RUNNERS @ 4'-0" O.C. WITH HANGER WIRES SPACED @ 4'-0" O.C. MAX.   | 9  | RUNNERS MAY BE ATTACHED TO WALL MOLDING AT (2) ADJOINING WALLS; AT OTHER WALLS NO ATTACHMENT. WHERE THERE IS NO ATTACHMENT THERE SHALL BE A 1/2" CLEARANCE BETWEEN END RUNNER AND FACE OF WALL.   | 14 | CONT. WALL ANGLE WITH POP RIVET TO EACH MEMBER.   |
| 2 | MAIN RUNNER: DONN CORP. DX-26 HEAVY DUTY   |    |   | 15 | CONTINUOUS WALL ANGLE.  |
| 3 | CROSS RUNNER: DONN CORP. DXO-424 HEAVY DUTY  | 10 | CEILING AREAS EVERY 144 SQ. FT. OR LESS SHALL HAVE SPAY WIRES INSTALLED AS INDICATED ON CEILING PLAN. SPAY WIRES SHALL BE TAUT BUT SHALL NOT DISTORT GRID.  | 16 | 6d NAIL @ 16" O.C. INTO BLOCK OR STUD.  |
| 4 | WALL RUNNER: DONN CORP. M7-EN  | 11 | ELECTRICIAN SHALL PROVIDE (2) SLACK HANGER WIRES AT OPPOSITE CORNERS OF ALL LIGHT FIXTURES. WIRES SHALL BE ATTACHED TO STRUCTURE ABOVE PER NOTE 5. LIGHT FIXTURES SHALL BE ATTACHED TO CEILING GRID WITH (1) #8 STEEL NAIL SCREW @ EACH CORNER. | 17 |   |
| 5 | TYPICAL HANGER WIRE TO BE 12 Gg. STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH (3) TIGHT TURNS WITHIN 1 1/2" - SEE DETAIL 4.   | 12 | DUCTWORK, IF REQUIRED, SHALL BE RIGIDLY ATTACHED TO STRUCTURE ABOVE AT INTERVALS NOT TO EXCEED 4'-0" AND SHALL NOT BE CLOSER THAN 6" TO ANY WIRE.   | 18 | ROOF JOIST  |
| 6 | TYPICAL HANGER WIRE TO BE 12 Gg. STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH (4) TIGHT TURNS WITHIN 1 1/2" - SEE DETAIL 4.   | 13 | CEILING REGISTERS, WHEN INDICATED ON PLANS, SHALL BE ATTACHED TO STRUCTURE ABOVE PER NOTE 5.  | 19 | ROOF BEAM   |
| 7 | AT END OF ROWS OF RUNNERS, A HANGER WIRE SHALL BE ATTACHED WITHIN 8" (OF ANY WALL OR SOFFIT) OR 1/4 LENGTH OF END TIE WHICHEVER IS LEAST   |    |   | 20 | CLOSE OFF CROSS TEE- INSERT ONE END OF CROSS TEE INTO MAIN RUNNER WITH CONE L. CUT OPPOSITE END TO FIT (IF LESS THAN 24"). INSERT MIN. 20 Gg. MTL. STRAP THRU MAIN RUNNER, SECURE TO CROSS TEE W/ (2) #8 TECK SCREWS AT EACH END. |
| 8 | VERTICAL WIRES MORE THAN 1:6 OUT OF PLUMB SHALL HAVE COUNTERBALANCE WIRES INSTALLED. ADJOINING WALLS; AT OTHER WALLS NO ATTACHMENT. A 1/2" CLEARANCE BETWEEN END OF RUNNER AND FACE OF WALL. WIRES INSTALLED AS INDICATED ON PLAN. SPAY WIRES SHALL BE TAUT BUT NOT DISTORTED. |    |   | 21 | VERTICAL BRACE- 1/2" STEEL EMT AT SPAY WIRE LOCATIONS. (MAX. HT. OF 4'-0") DRILL 1/8" HOLE THRU CONDUIT AT TOP & BOTTOM. ATTACH CONDUIT TO JOIST ABOVE OR TO BLOCKING W/ (2) #12 SCREWS @ TOP & BOTTOM.                           |

36' x 40'  
COMPUTER/DRAFTING  
TECHNOLOGY

PROJECT

JOB # 03-1003

DATE 5-6-03

DRAWN BY

SCALE

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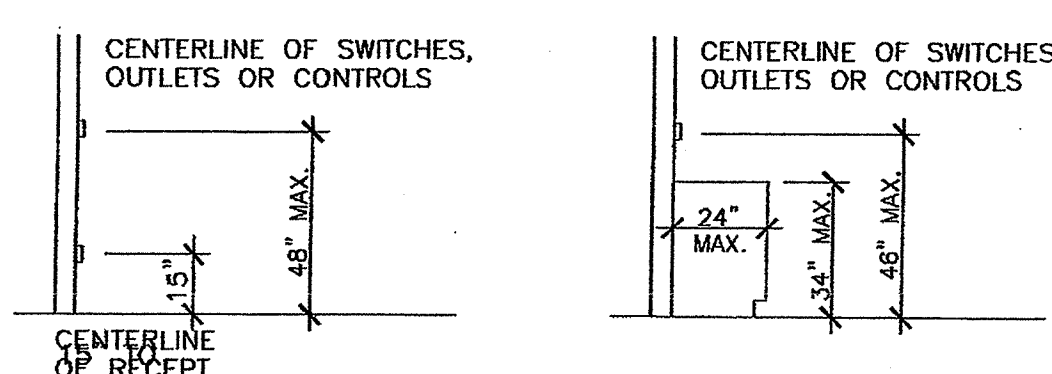
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### SYMBOL LEGEND

- DISCONNECT-GENERAL SWITCH R610-B.60 AMP.  
NOT REQUIRED ON A/C UNITS WITH INTERNAL DISCONNECT BREAKER
- PULL STATION J-BOX W/ 3/4" CONDUIT @ 48" A.F.F.
- EXT. HORN J-BOX W/ 3/4" CONDUIT @ + 7'-0" A.F.F.
- 110V RECEPTACLE 20 AMP  
SPECIFICATION GRADE @ +18" A.F.F.
- SWITCH @ +42" A.F.F.
- DATA J-BOX W/3/4" CONDUIT STUBBED TO ATTIC
- EXTERIOR LIGHT +7'-6"- SEE FIXTURE SCHEDULE
- HORN/STROBE LIGHT J-BOX W/ 3/4" CONDUIT @ + 80" A.F.F.
- SMOKE DETECTOR J-BOX W/ 3/4" CONDUIT @ CEILING
- HEAT DETECTOR J-BOX W/ 3/4" CONDUIT IN ATTIC SPACE  
(ONE PER MODULE, IN ATTIC TYP.)
- DIRECTIONAL PHOTO CELL CONTROL ON ROOF
- CLOCK W/CLOCK OUTLET @ +8'-0"
- EMERGENCY LIGHT W/ BATTERY BACK-UP
- LIGHTED EXIT SIGN W/ BATTERY BACKUP

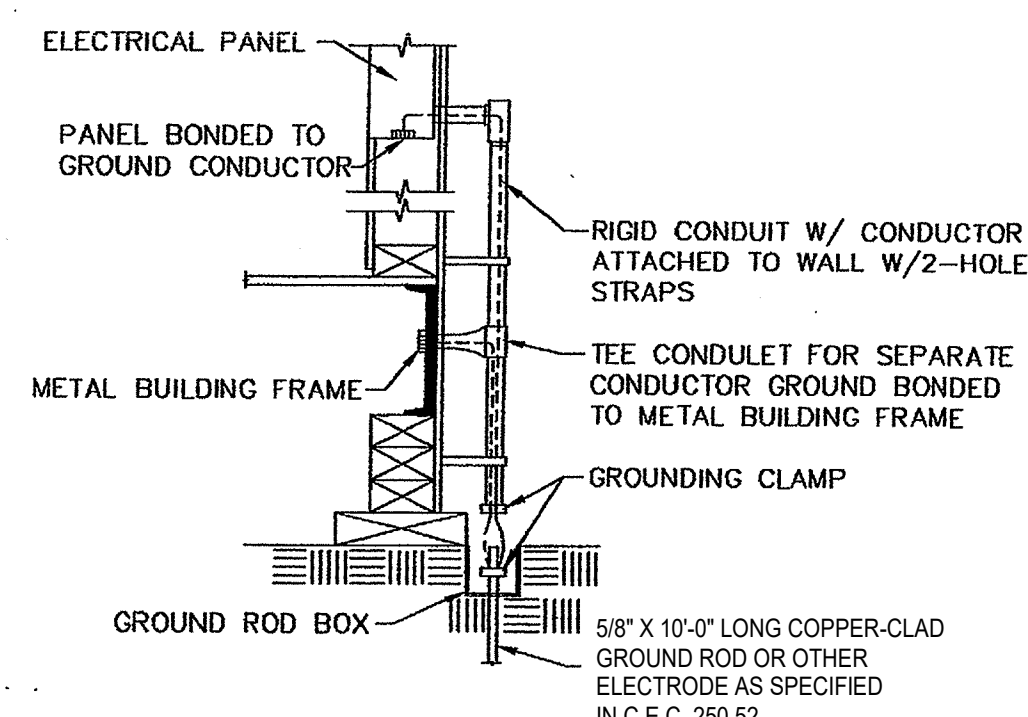
NOTE:  
ALL FIXTURE MOUNTING HEIGHTS ARE TO THE CENTER OF THE FIXTURE (U.N.O.)



### MOUNTING HEIGHT OVER OBSTRUCTION

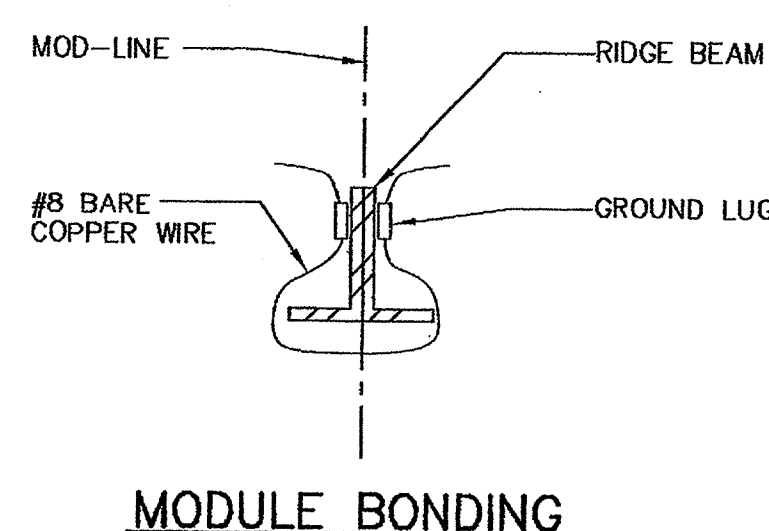
### FIRE ALARM NOTES

- FIRE ALARM SYSTEM SHALL COMPLY W/ TITLE 24 SEC. 305.9, TITLE 24, PART 3, ARTICLE 760 OF THE CALIFORNIA CODE OF REGULATIONS AND CALIFORNIA FIRE REGULATIONS, ARTICLE 10.
- 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 AND THE SIGNATURE OF THE ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, AND APPROVED BY THE OFFICE OF THE STATE ARCHITECT AND STATE FIRE MARSHAL.



- NOTES:
- SIZE OF CONDUCTORS SHALL COMPLY W/NEC TABLE 250-95.
  - BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & TO METAL BUILDING FRAME (NEC 250-81) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE (NEC 250-81 & 250-83).
  - ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING), INCLUDING RAMP TO STEEL FRAME.
  - CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS W/CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (NEC 250-84).
  - PROJECT INSPECTOR SHALL WITNESS GROUNDING TEST.

### ACCEPTABLE GROUNDING DETAIL BY OWNER



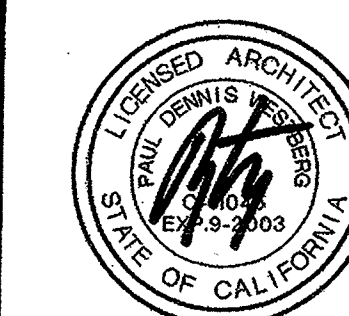
### ELECTRICAL POWER PLAN

PANELBOARD SCHEDULE											
PANEL A											
VOLTS 120/240			PHASE 1			BUSS 125 A			FEED BOTTOM		
MAIN BRKR 125 A			WIRE 3			MOUNT SURFACE			LOCATION EXTERIOR		
DESCRIPTION	WATTS	WIRE SIZE	BREAKER	POLE	NO.	DESCRIPTION	WATTS	WIRE SIZE	BREAKER	POLE	NO.
5-TON HEAT PUMP	5175	8	60	2	1	2	1	20	12	939	LIGHTS
5-TON HEAT PUMP	5175	8	60	2	1	4	1	20	12	939	LIGHTS
HEAT STRIP	2990	10	30	2	5	6	1	20	12	720	RECEIPT
HEAT STRIP	2990	10	30	2	5	8	1	20	12	720	RECEIPT
-	-	-	-	-	9	10	1	20	12	720	RECEIPT
-	-	-	-	-	11	12	1	20	12	720	RECEIPT
-	-	-	-	-	13	14	1	20	12	720	RECEIPT
-	-	-	-	-	15	16	1	20	12	720	RECEIPT
-	-	-	-	-	17	18	1	20	12	720	RECEIPT
-	-	-	-	-	19	20	1	20	12	540	RECEIPT
SUB TOTAL	9,165	9,165					3,819	3,639			SUB TOTAL
LOAD KW	A 11,885										TOTAL LOAD
	B 11,804										
TOT	23,789										
L.C.L. = 1,878 x 1.25 = 2,348						OTHER = 21,911					
MAX DEMAND = 24,259						MAX DEMAND 101 AMPS					

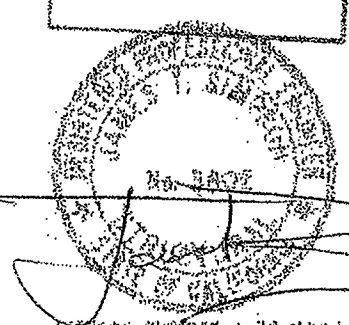
### ELECTRICAL LIGHTING PLAN

FIXTURE SCHEDULE		
SYMBOL	DESCRIPTION	WATTS
	2' x 4' FLUORESCENT DROP IN LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DOUBLE ELECTRONIC BALLAST, (3) 32 WATT T-8 TUBES, WEIGHT 27 LBS.	96 WATTS
	INCANDESCENT SURFACE MOUNTED EXTERIOR LIGHT FIXTURE WITH IMPACT RESISTANT ENCLOSURE WITH DIRECTIONAL PHOTO CELL CONTROL ON ROOF.	75 WATTS

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DATE: 12/28/2022

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AC ☒ FLS ☒ SS ☒  
DATE: 12/28/2022  
STATE AGENCY STAMP

PROJECT  
36'x40'  
COMPUTER/DRAFTING  
TECHNOLOGY  
36'x40'  
ELECTRICAL LIGHTING PLAN  
ELECTRICAL POWER PLAN

JOB # 03-1003

DATE 5-6-03

DRAWN BY db

SCALE 1/4"=1'-0"

APPROVED

REVISIONS

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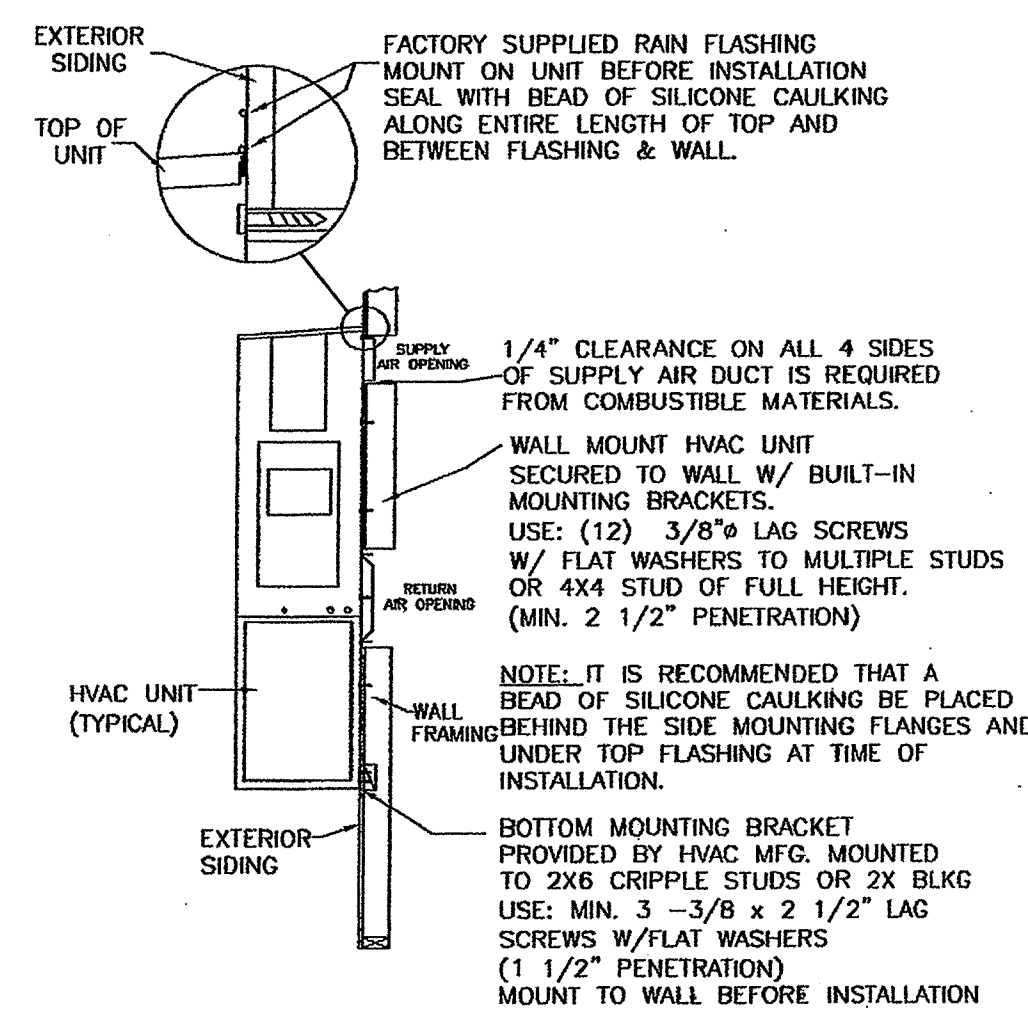
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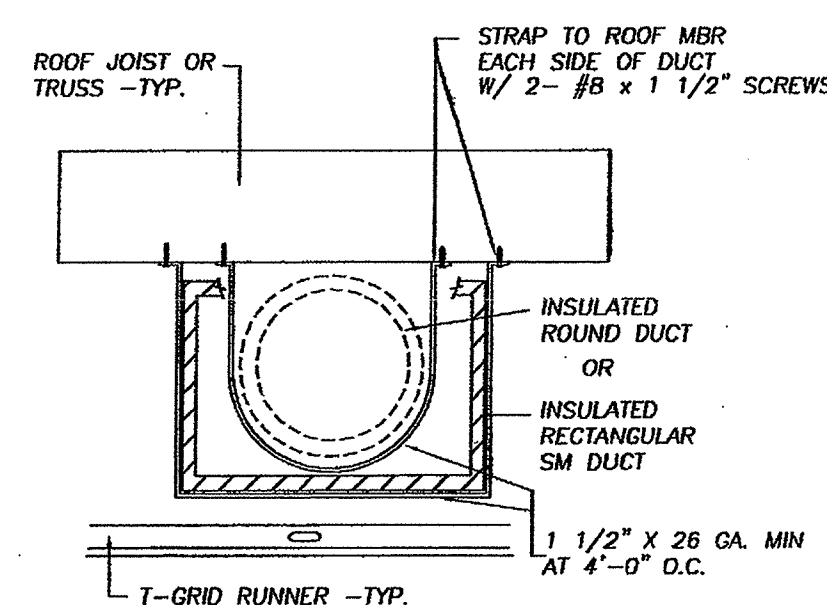
SIZE OF SUPPLY AND RETURN AIR  
OPENINGS AS PER MFG.'S SPECS  
ACCORDING TO SIZE OF HVAC UNIT



AIR FILTER: SEE GEN. NOTES  
ON ARCHT. SHEET OF PLANS

#### HVAC MOUNTING

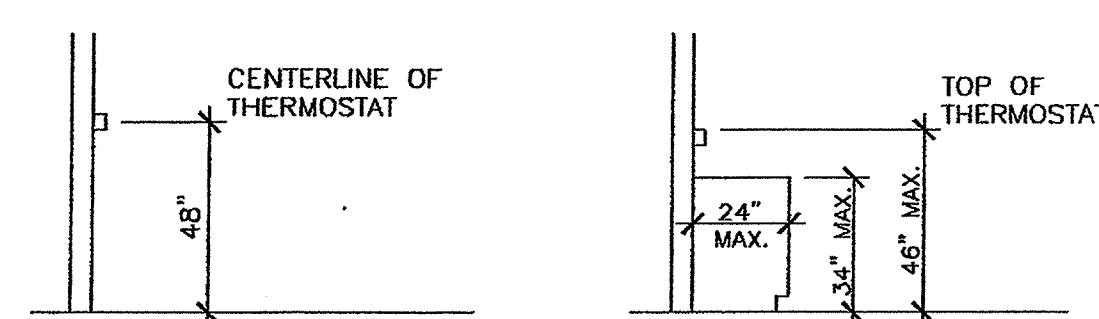
SCALE: 3/8" = 1'-0"



FACTORY-MADE AIR DUCTS: SEE GENERAL NOTES  
ARCHT. SHEET OF PLANS

#### DUCT MOUNTING

SCALE: 1" = 1'-0"



#### MOUNTING HEIGHT OVER OBSTRUCTION

BARD HVAC OPENING @ SUPPLY		
10 SEER	SIZE	OPENING
WH	5.0 TON	31 X 11

#### EQUIPMENT & MATERIAL SCHEDULE

HP 1  
5 TON  
HEAT PUMP "BARD" WALLMOUNT, WH60-A05VP4 5KW  
56,000 NOM. BTUH COOLING CAPACITY-10.20 SEER  
58,000 NOM. BTUH HEATING CAPACITY FROM COMPRESSOR-7.00 HSPF  
ADDITIONAL 17,065 NOM. BTUH HEATING CAPACITY FROM HEAT STRIP  
DUAL CIRCUIT:  
CIRCUIT#1: MCA 45, MOCP 60, MIN. WIRE SIZE #8  
CIRCUIT#2: MCA 26, MOCP 30, MIN. WIRE SIZE #10  
1875 CFM @ .3 ESP, UNIT WEIGHT 510 LBS., 230 v., 60 CYCLE, SINGLE PHASE

NOTE:  
ADJUST OUTSIDE AIR DAMPER  
TO A MIN. OF 534 CFM

① THERMOSTAT - WHITE ROGERS 1F92-371  
AUTO CHANGEOVER, ELECTRONIC, 5+2 DAY  
3 HEAT, 2 COOL, MOUNT AT +48" A.F.F.  
USE STAT GUARD #F29-0277

■ SUPPLY REGISTER, CEILING, SHOEMAKER  
104-08D, 16x16-12, T-BAR, 08D  
4 WAY FIXED CURVE BLADE, U.N.O.

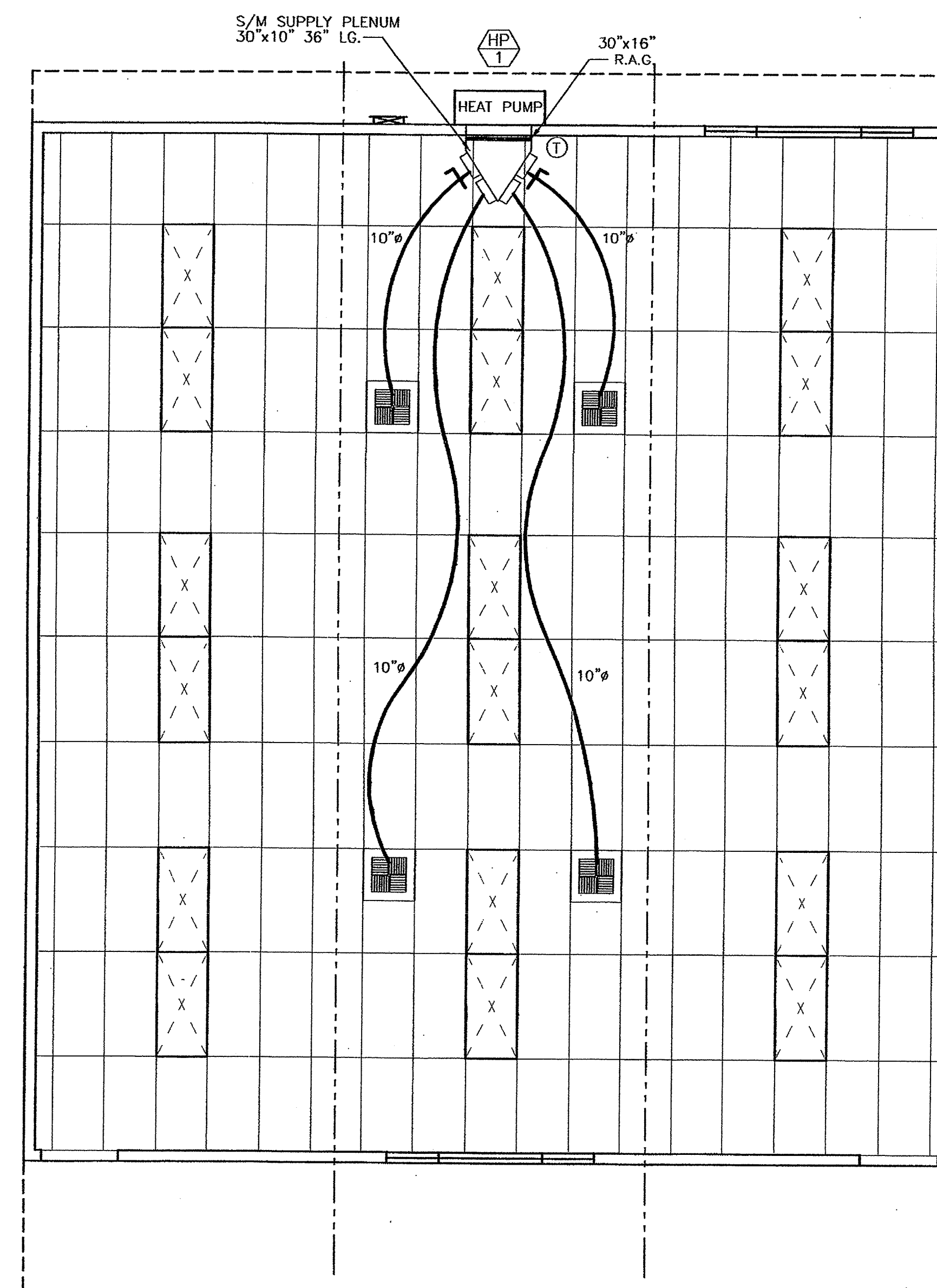
□ SUPPLY BALANCE DAMPER (SIZE AS NOTED)

#### MECHANICAL NOTES

FLEXIBLE DUCT SHALL BE MODULAR METAL FABRICATORS SERIES  
FDMA R4.2 WITH INSULATION, A POLY JACKET, AND A WIRE  
ENCAPSULATED NON-PERFORATED CORE THAT COMPLIES  
WITH ASTM C-518, 1991. FLEXIBLE DUCTING SHALL BE  
UL LISTED CLASS 1 AIR DUCT WITH A FLAME SPREAD  
RATING NOT TO EXCEED 25, AND A SMOKE-DEVELOPED RATING NOT  
TO EXCEED 50 IN ACCORDANCE WITH NFPA 90A & 90B.

THERMOSTAT PROGRAMMING TO BE PERFORMED AND BATTERY PROVIDED BY OTHERS ON SITE.  
TEST AND BALANCE OF HVAC SYSTEM TO BE PROVIDED AND PERFORMED BY OTHERS ON SITE.  
ALL HVAC EQUIPMENT LEAVES FACTORY WIRED FOR 240V. OPERATION. THE ACCEPTABLE  
OPERATING RANGE FOR THE 240 & 208 TAPS ARE:

TAP	RANGE
240	253-216
208	220-187



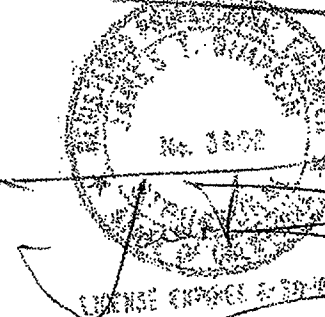
#### MECHANICAL PLAN

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



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APP. 01 1004778

AC FLS SS

DATE 6/1/03

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920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507  
PHONE: (951) 788-3035 FAX: (951) 788-1533

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PROJECT 36'x40'  
COMPUTER/DRAFTING  
TECHNOLOGY  
TITLE 36'x40' MECHANICAL PLAN

JOB # 03-1003

DATE 5-6-03

DRAWN BY db

SCALE 1/4"=1'-0"

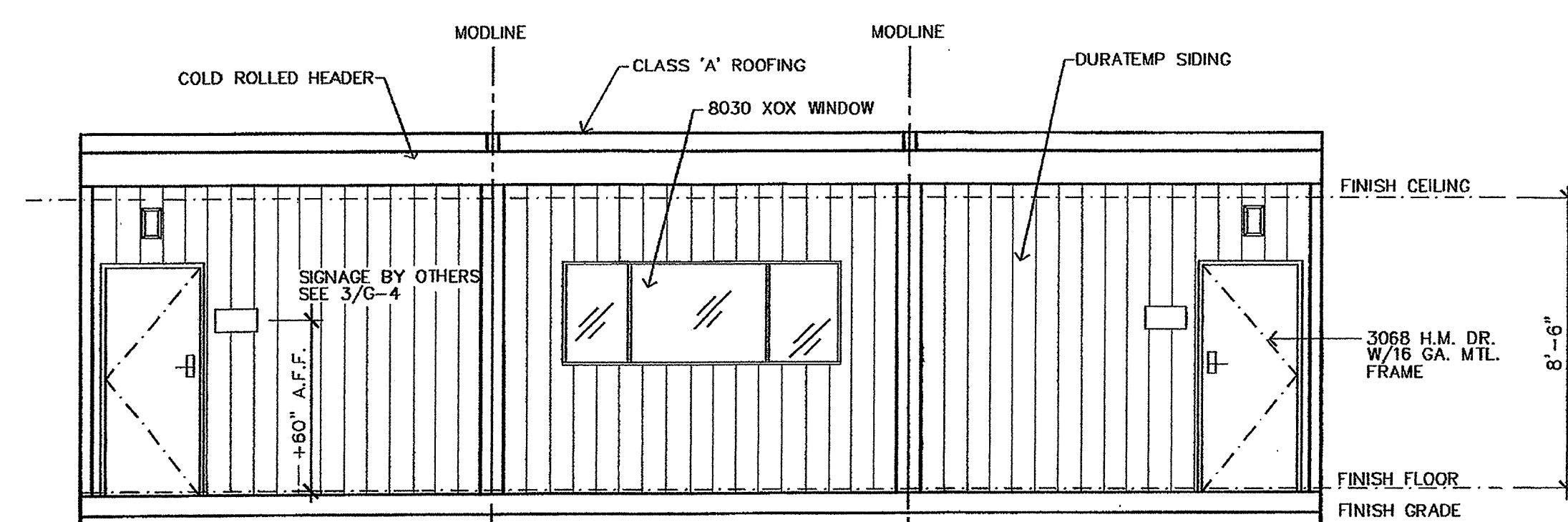
APPROVED

REVISIONS

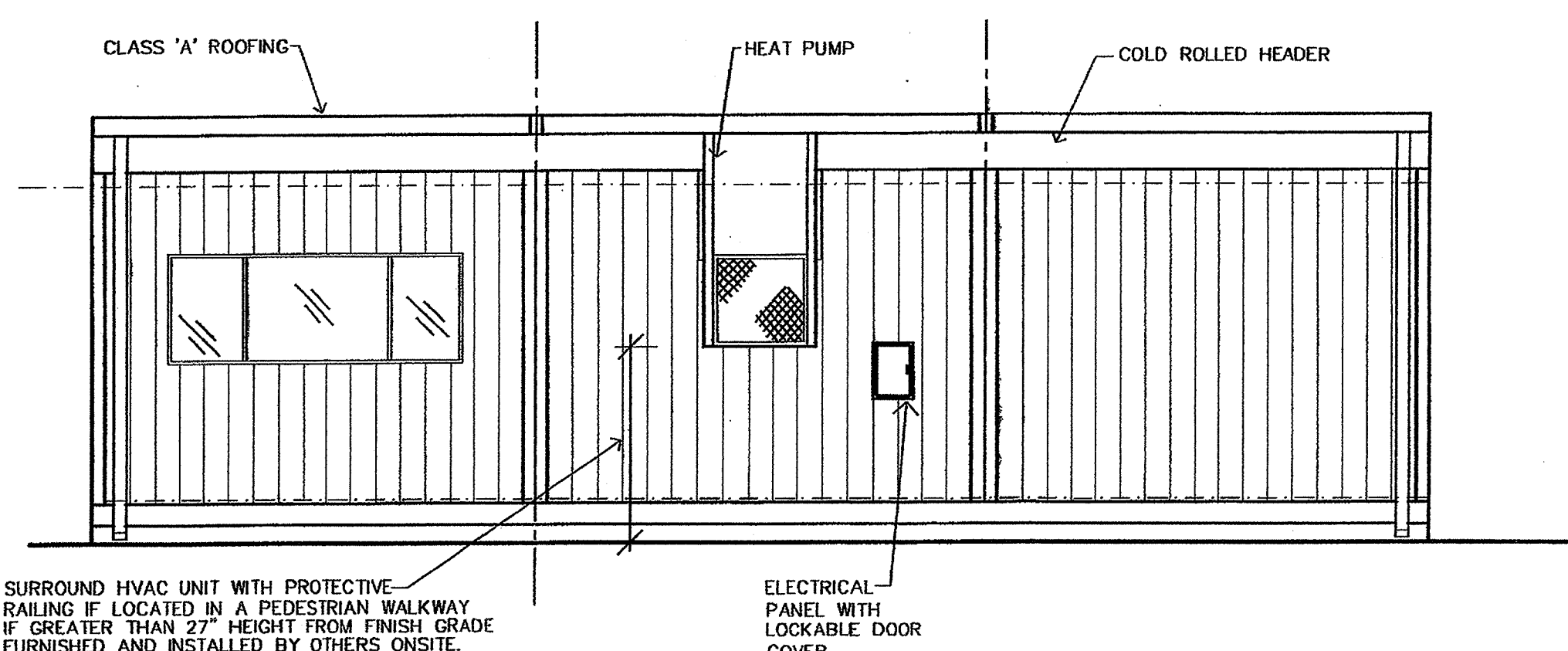
SHEET NO.

M-1.1-36

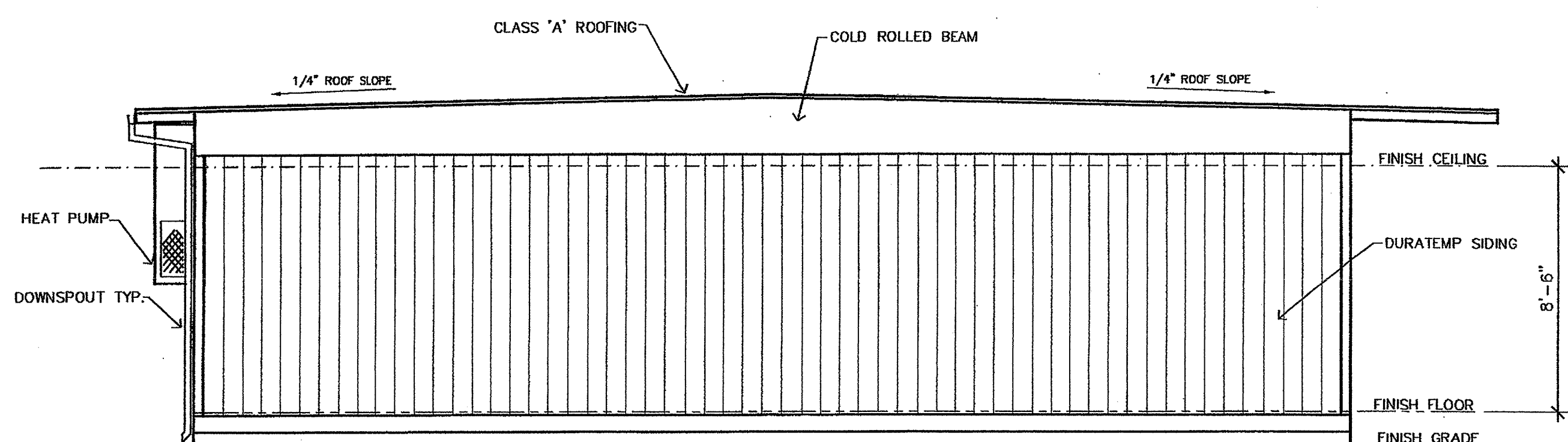




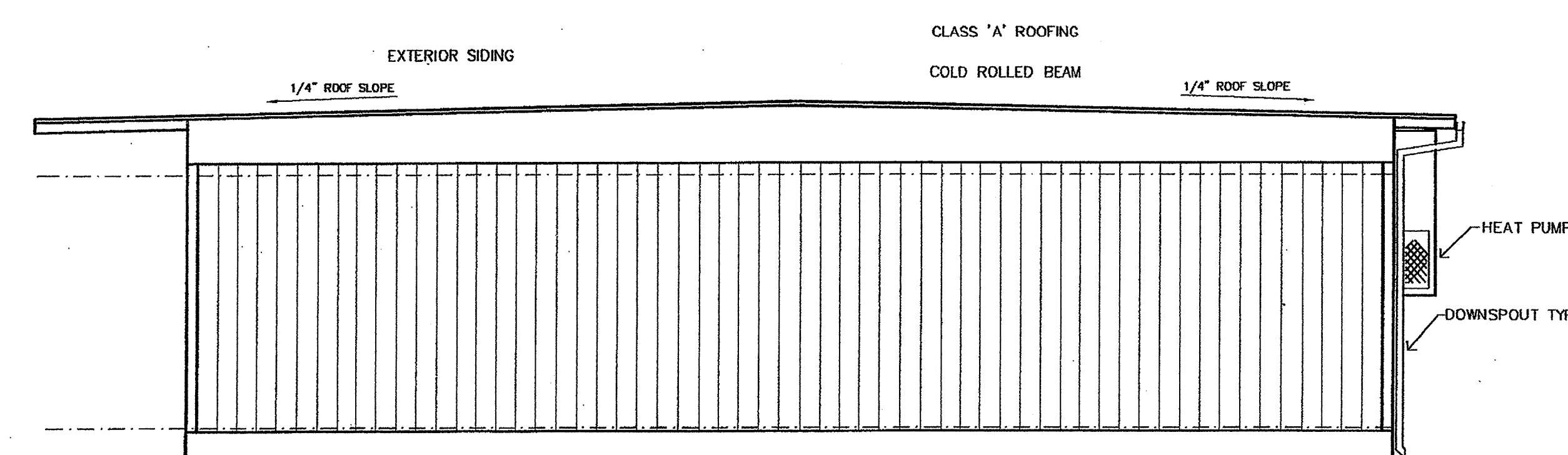
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

**LEGEND**

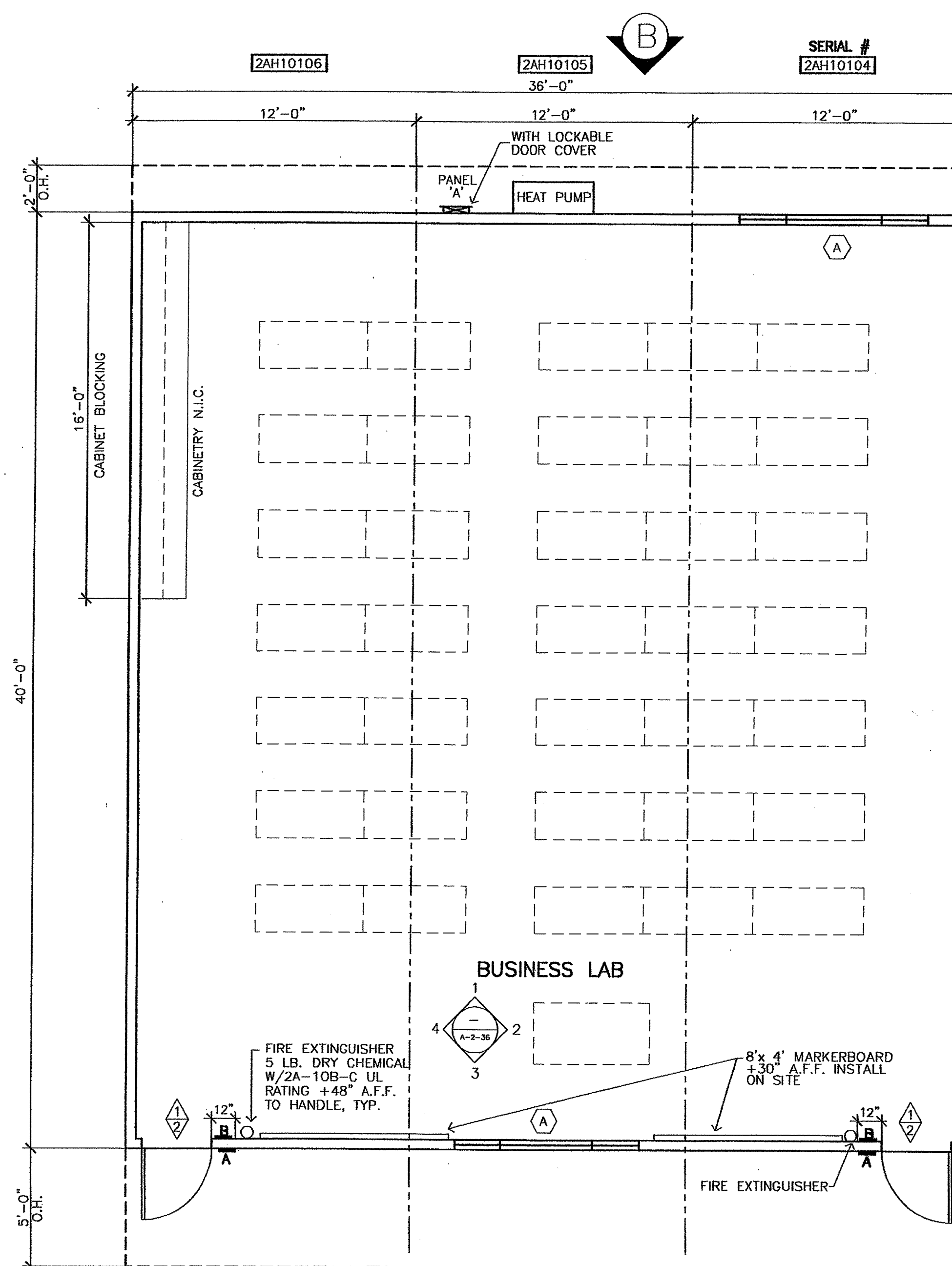
INDICATES DOOR TYPE, SEE G-2  
INDICATES HARDWARE TYPE, SEE G-2  
INDICATES WINDOW TYPE-- SEE SHEET G-2  
DETAIL #  
SHEET #

**SIGNAGE LEGEND:**  
A: ROOM SIGNAGE PER DETAIL #3, SHEET G-4  
B: EXIT SIGNAGE PER DETAIL #3, SHEET G-4  
SEE NOTE 4 BELOW FOR SIGNAGE REQUIREMENTS

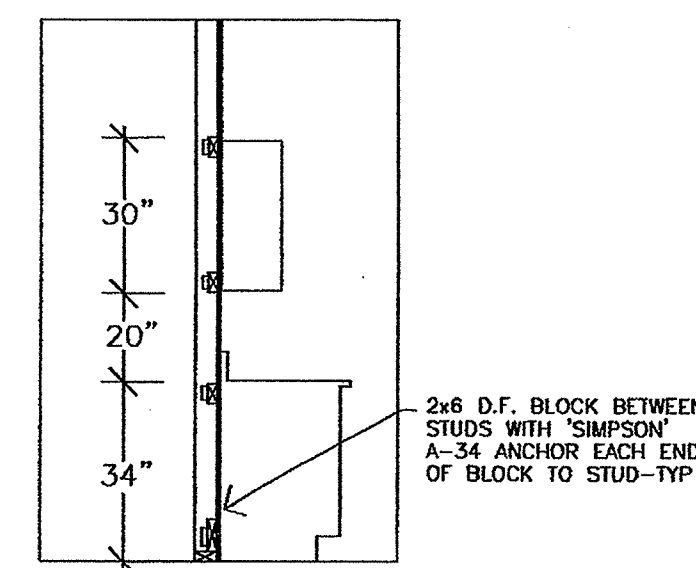
**NOTE:**  
FLOOR PLAN SHOWN IS 'B' BUILDING  
'A' BUILDING IS OPPOSITE HANDED

**NOTE:**  
PROVIDE FIRE BLOCKING PER C.B.C. 708

**NOTE:**  
BUILDING HOUSING GROUP 'E' OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN TABLE 15A C.B.C. -- CLASS 'A'



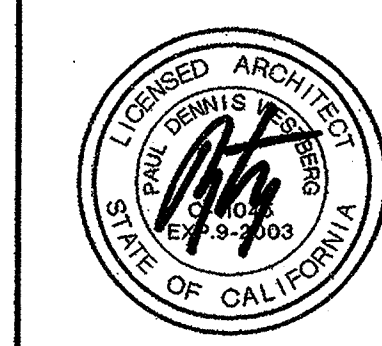
FLOOR PLAN  
SCALE: 1/4"=1'-0"



CABINET BLOCKING

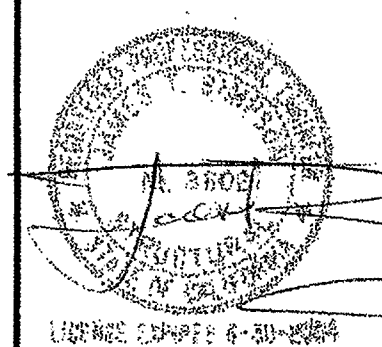
BLOCKING SHALL BE 2x4 D.F. #2 BETWEEN STUDS WITH SIMPSON A-34 ANCHOR EACH END OF BLOCK TO STUD. ATTACH CABINET TO BLOCKING WITH #10 x 3" SCREWS @ 12" O.C. ALTERNATE BLOCKING SHALL BE 20 GA. x 7 1/2" WIDE STEEL ATTACHED TO STUDS W/ (2) #6 SWS @ EACH STUD

- NOTES:**
1. MANUFACTURER SHALL MECHANICALLY ATTACH METAL TAG TO EXTERIOR OF BUILDING SHOWING DSA APPLICATION NUMBER, MANUFACTURERS NAME, UNIT SERIAL NUMBER, DESIGN LIVE LOADS FOR FLOOR AND ROOF, AND THE DESIGN WIND LOAD.
  2. WALL AND CEILING FINISHES SHALL BE MIN. CLASS 1 MATERIAL.
  3. FIBERGLAS INSULATION SHALL HAVE THE FOLLOWING:  
FLAME SPREAD 0-25  
SMOKE DEVELOPED, FUEL CONTRIBUTED 0-450
  4. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON SHEET CS PROVIDED AND INSTALLED BY OTHERS ON SITE. SEE #3/G-4
  5. ANY ROOM HAVING AN OCCUPANT LOAD OF 50 OR MORE WHERE FIXED SEATS ARE NOT INSTALLED, AND WHICH IS USED FOR CLASSROOM, ASSEMBLY, DINING OR SIMILAR PURPOSE SHALL HAVE THE CAPACITY OF THE ROOM POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT OF THE ROOM. POSTING SHALL BE BY MEANS OF A DURABLE SIGN HAVING CONTRASTING COLOR FROM THE BACKGROUND TO WHICH IT IS ATTACHED.
  6. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT TO EXCEED 15 POUNDS.
  7. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD 50 OR GREATER, CBC 1007.3.10



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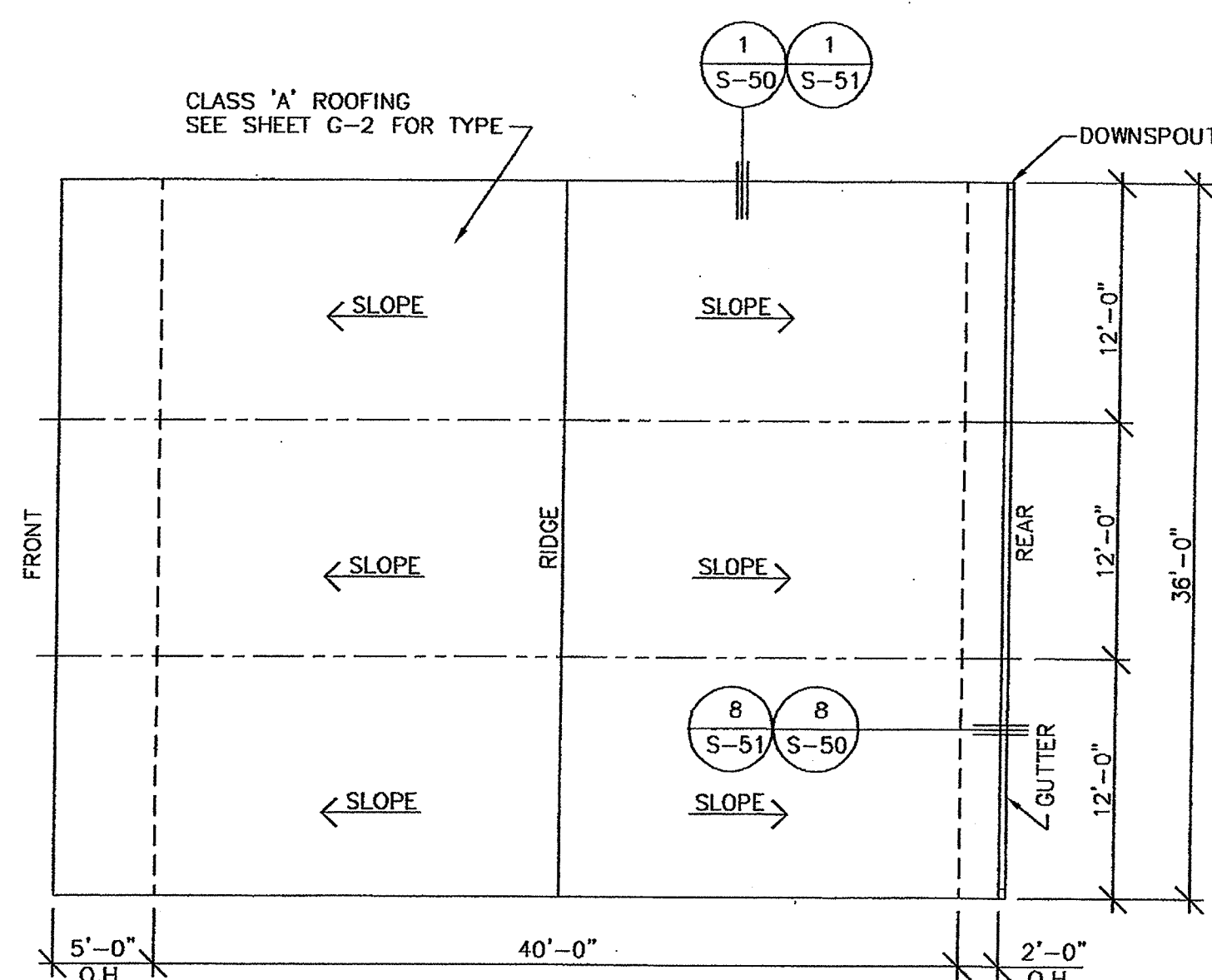
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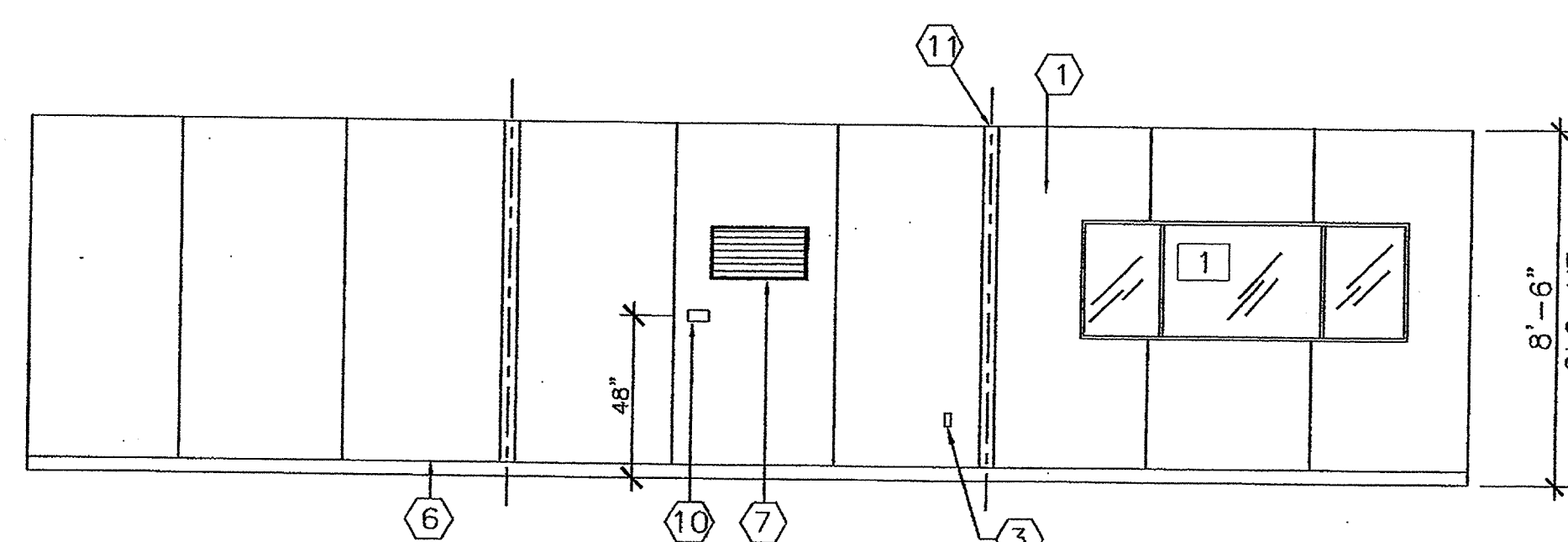
4-104778  
AC DATE 12/28/22

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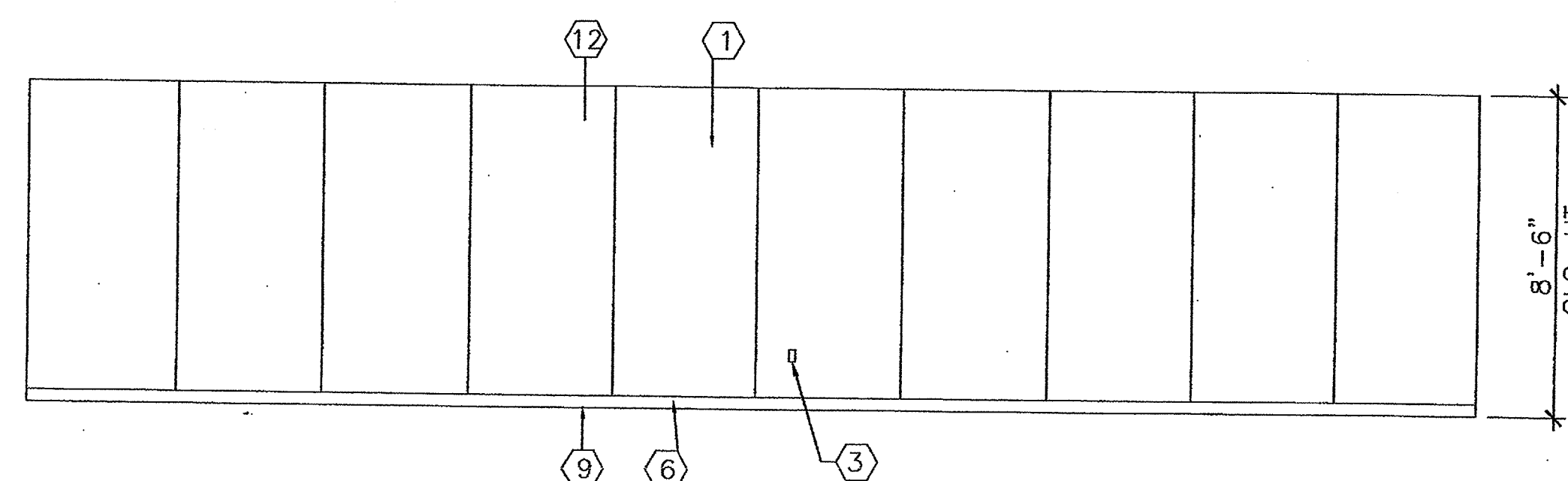




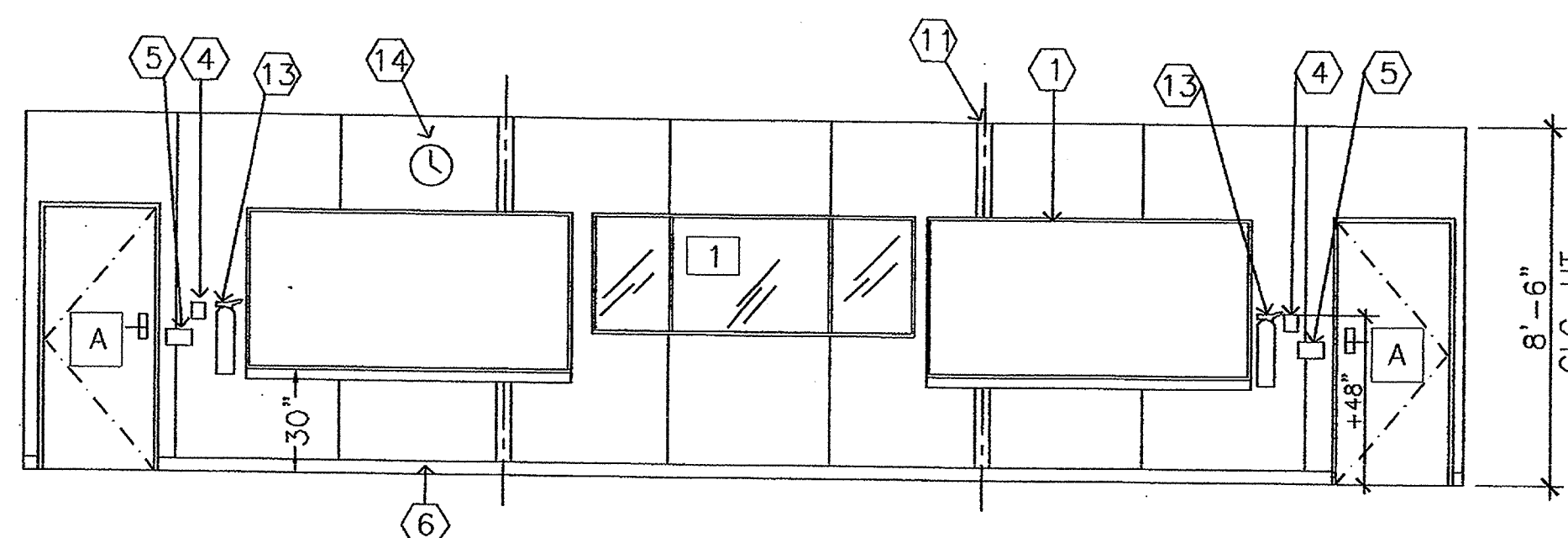
DUAL PITCH ROOF PLAN  
SCALE: 1/8"=1'-0"



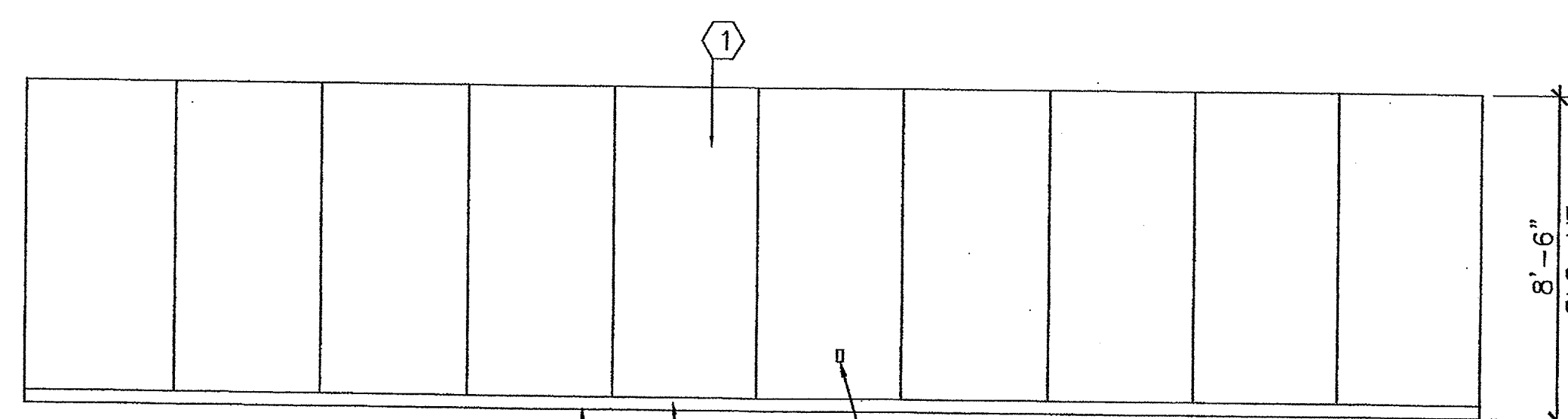
INTERIOR ELEVATION #1  
SCALE: 1/4"=1'-0"



INTERIOR ELEVATION #2  
SCALE: 1/4"=1'-0"



INTERIOR ELEVATION #3  
SCALE: 1/4"=1'-0"



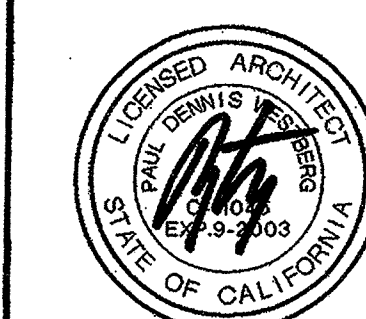
INTERIOR ELEVATION #4  
SCALE: 1/4"=1'-0"

# KEYNOTES:

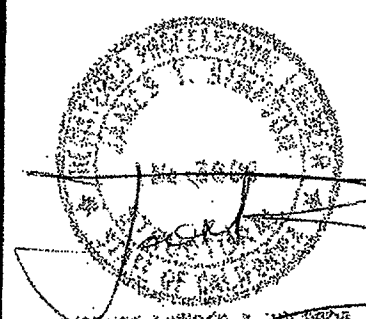
- [A] EXTERIOR DOOR
- [1] EXTERIOR WINDOW
- [1] TYPICAL INTERIOR FINISH
- [2] CLOSURE AT MODULAR JOINT
- [3] DUPLEX WALL RECEPTACLE +18" A.F.F. (SEE POWER PLAN)
- [4] FIRE ALARM PULL STATION (SEE POWER PLAN)
- [5] LIGHT SWITCH (SEE LIGHTING PLAN)
- [6] TOP SET BASE (TYPICAL) SEE FINISH SCHEDULE
- [7] RETURN AIR GRILL
- [8] ELECTRICAL PANEL
- [9] FINISH FLOOR
- [10] THERMOSTAT SEE MECHANICAL PLAN
- [11] MODULAR JOINT
- [12] (1) 8'-0" x 4'-0" MARKERBOARD
- [13] FIRE EXTINGUISHER
- [14] 12" DIA. ELECTRIC CLOCK (SEE ELECTRICAL POWER PLAN)

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920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507  
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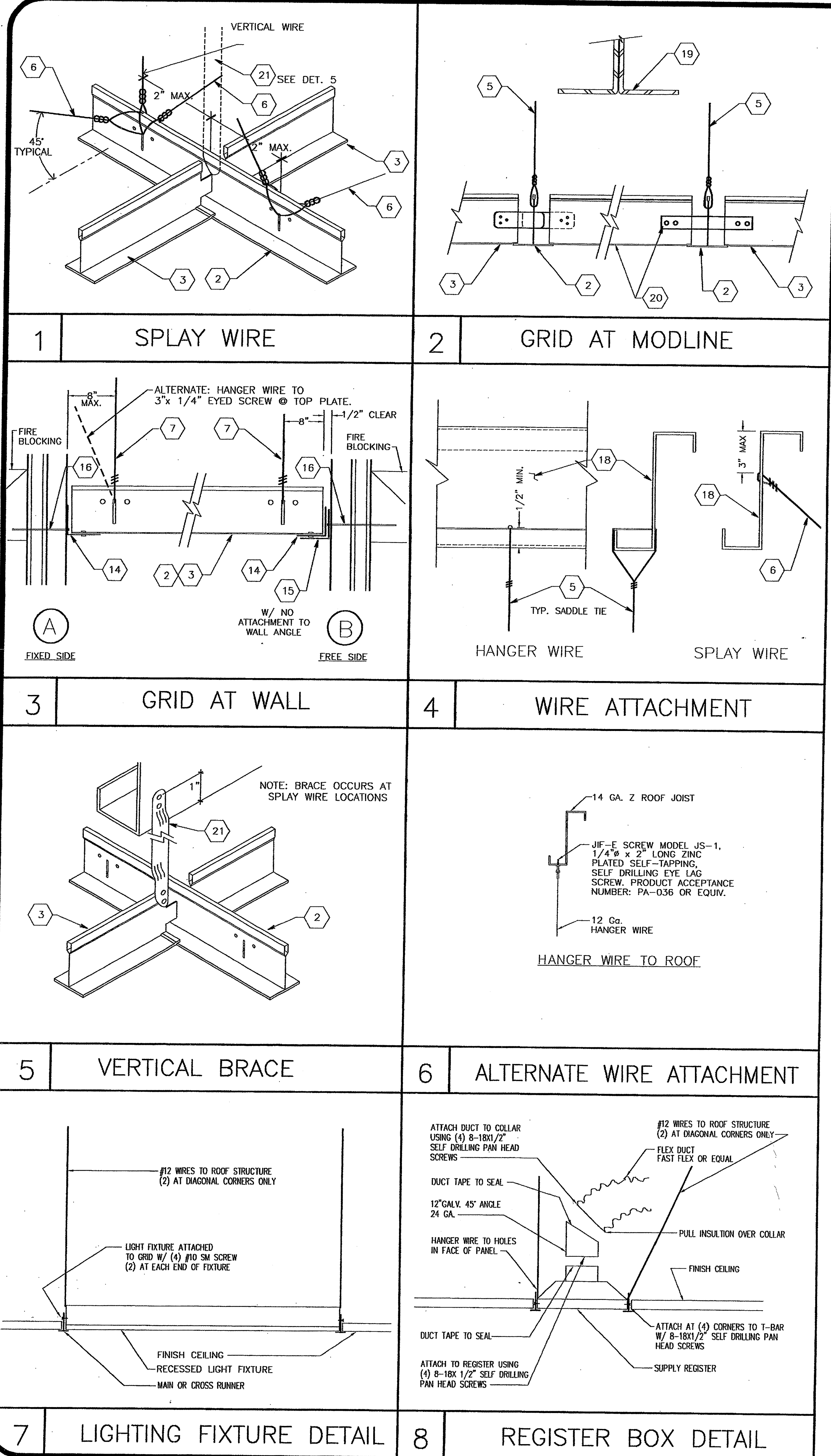
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AC FLS SS  
DATE 1/1/2023  
STATE AGENCY STAMP

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4-104778  
AC FLS SS  
DATE 1/1/2023  
STATE AGENCY STAMP

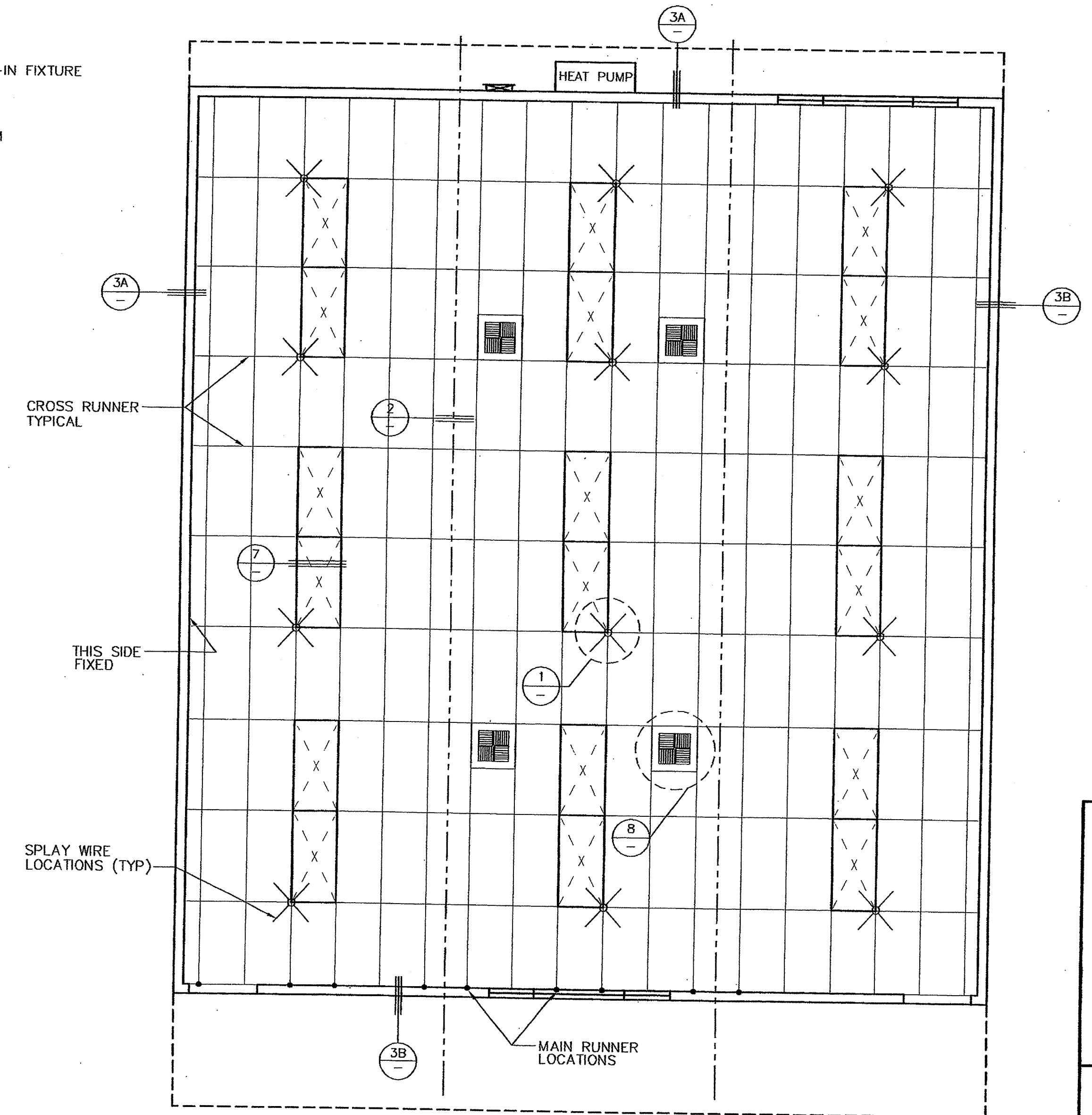
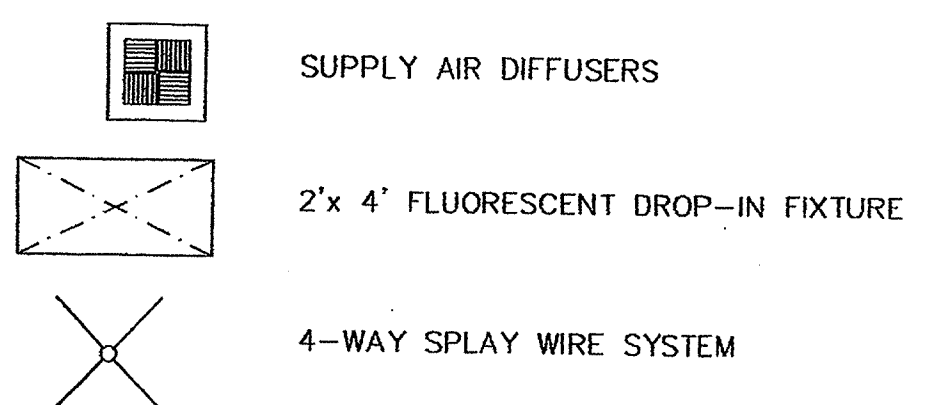
36'x40' INTERIOR ELEVATIONS  
& SINGLE SLOPE ROOF PLAN  
DOUBLE SLOPE ROOF PLAN

PROJECT  
36'x40' BUSINESS LAB  
JOB # 03-1003  
DATE 5-6-03  
DRAWN BY db  
SCALE 1/4"=1'-0"  
APPROVED  
REVISIONS  
SHEET NO.  
A-2.2-36





LEGEND



KEY NOTES

- MAIN RUNNERS @ 4'-0" O.C. WITH HANGER WIRES SPACED @ 4'-0" O.C. MAX.
- MAIN RUNNER: DONN CORP. DX-26 HEAVY DUTY
- CROSS RUNNER: DONN CORP. DXO-424 HEAVY DUTY
- WALL RUNNER: DONN CORP. M7-EV
- TYPICAL HANGER WIRE TO BE 12 GA. STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH (3) TIGHT TURNS WITHIN 1 1/2" - SEE DETAIL 4
- TYPICAL SPLAY WIRE TO BE 12 GA. STEEL WIRE ATTACHED TO STRUCTURE ABOVE AND TO GRID WITH (4) TIGHT TURNS WITHIN 1 1/2" - SEE DETAIL 4
- AT END OF ROWS OF RUNNERS, A HANGER WIRE SHALL BE ATTACHED WITHIN 8" (OF ANY WALL OR SOFFIT) OR 1/4 LENGTH OF END TEE WHICHEVER IS LEAST
- VERTICAL WIRES MORE THAN 1/6 OUT OF PLUMB SHALL HAVE COUNTERBALANCE WIRES INSTALLED. ADJOINING WALLS: AT OTHER WALLS NO ATTACHMENT. A 1/2" CLEARANCE BETWEEN END OF RUNNER AND FACE OF WALL. WIRES INSTALLED AS INDICATED ON PLAN. SPLAY WIRES SHALL BE TAUT BUT NOT DISTORTED.
- RUNNERS MAY BE ATTACHED TO WALL MOLDING AT (2) ADJOINING WALLS; AT OTHER WALLS NO ATTACHMENT. WHERE THERE IS NO ATTACHMENT THERE SHALL BE A 1/2" CLEARANCE BETWEEN END RUNNER AND FACE OF WALL.
- CEILING AREAS EVERY 144 SQ. FT. OR LESS SHALL HAVE SPLAY WIRES INSTALLED AS INDICATED ON CEILING PLAN. SPLAY WIRES SHALL BE TAUT BUT SHALL NOT DISTORT GRID.
- ELECTRICIAN SHALL PROVIDE (2) SLACK HANGER WIRES AT OPPOSITE CORNERS OF ALL LIGHT FIXTURES. WIRES SHALL BE ATTACHED TO STRUCTURE ABOVE PER NOTE 5. LIGHT FIXTURES SHALL BE ATTACHED TO CEILING GRID WITH (1) #8 SHEET METAL SCREW @ EACH CORNER.
- DUCTWORK, IF REQUIRED, SHALL BE RIGIDLY ATTACHED TO STRUCTURE ABOVE AT INTERVALS NOT TO EXCEED 4'-0" AND SHALL NOT BE CLOSER THAN 8" TO ANY WIRE.
- CEILING REGISTERS, WHEN INDICATED ON PLANS, SHALL BE ATTACHED TO STRUCTURE ABOVE PER NOTE 5.
- CONT. WALL ANGLE WITH POP RIVET TO EACH MEMBER.
- CONTINUOUS WALL ANGLE.
- 6d NAIL @ 16" O.C. INTO BLOCK OR STUD.
- ROOF JOIST
- ROOF BEAM
- CLOSE OFF CROSS TEE- INSERT ONE END OF CROSS TEE INTO MAIN RUNNER WITH BAYONET. CUT OPPOSITE END TO FIT (IF LESS THAN 24"). INSERT MIN. 20 ga. MTL. STRAP THRU MAIN RUNNER, SECURE TO CROSS TEE W/ (2) #8 TEK SCREWS AT EACH END.
- VERTICAL BRACE- 1/2" STEEL EMT AT SPLAY WIRE LOCATIONS. (MAX. HT. OF 4'-0") DRILL 1/8" HOLE THRU CONDUIT AT TOP & BOTTOM. ATTACH CONDUIT TO JOIST ABOVE OR TO BLOCKING W/ (2) #12 SCREWS @ TOP & BOTTOM.

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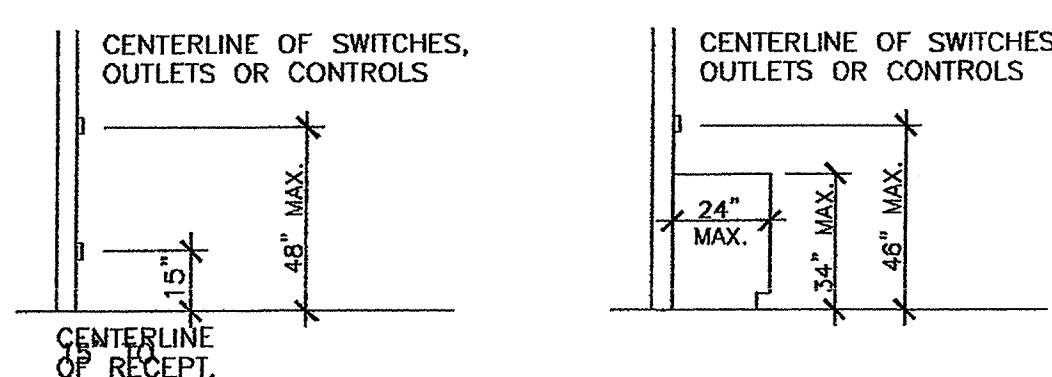
ARCHITECT STAMP DATE SIGNED JUN 04 2003	PROJECT 36'x40' BUSINESS LAB
STRUCTURAL ENGINEER STAMP DATE SIGNED JUN 04 2003	TITLE 36'x40' REFLECTED CEILING PLAN
DATE 5-8-03	JOB # 03-1003
DRAWN BY db	SCALE 1/4"=1'-0"
APPROVED	REVISIONS
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### SYMBOL LEGEND

- ☒ DISCONNECT—GENERAL SWITCH R610—8.60 AMP.  
NOT REQUIRED ON A/C UNITS WITH INTERNAL DISCONNECT BREAKER
- ☒ PULL STATION J-BOX W/ 3/4" CONDUIT @ 48" A.F.F.
- ☒ EXT. HORN J-BOX W/ 3/4" CONDUIT @ + 7'-0" A.F.F.
- ☒ 110V RECEPTACLE 20 AMP  
SPECIFICATION GRADE @ +18" A.F.F.
- ☒ SWITCH @ +42" A.F.F.
- ☒ FLOOR MOUNTED J-BOX W/3/4" CONDUIT
- ☒ EXTERIOR LIGHT +7'-6"—SEE FIXTURE SCHEDULE
- ☒ HORN/STROBE LIGHT J-BOX W/ 3/4" CONDUIT @ + 80" A.F.F.
- ☒ SMOKE DETECTOR J-BOX W/ 3/4" CONDUIT @ CEILING
- ☒ HEAT DETECTOR J-BOX W/ 3/4" CONDUIT IN ATTIC SPACE  
(ONE PER MODULE, IN ATTIC TYP.)
- ☒ OVERRIDE SWITCH @ +42"
- ☒ DIRECTIONAL PHOTO CELL CONTROL ON ROOF
- ☒ CLOCK W/CLOCK OUTLET @ +8'-0"
- ☒ EMERGENCY LIGHT W/ BATTERY BACK-UP
- ☒ LIGHTED EXIT SIGN W/ BATTERY BACKUP

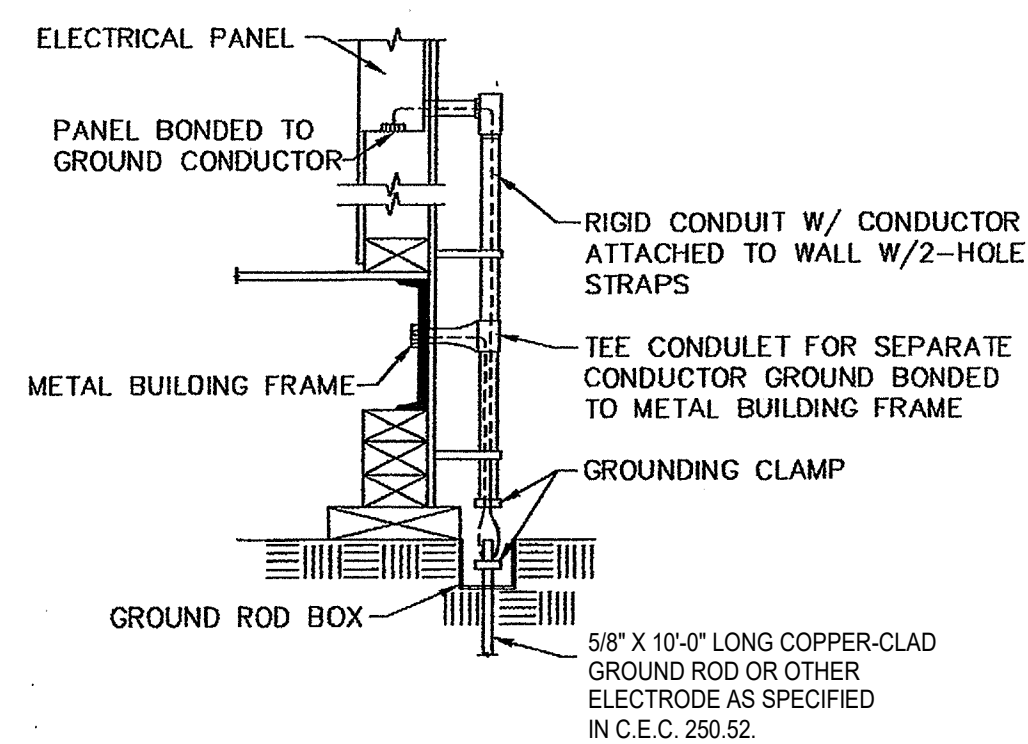
NOTE:  
ALL FIXTURE MOUNTING HEIGHTS ARE TO THE CENTER OF THE FIXTURE (U.N.O.)



### MOUNTING HEIGHT OVER OBSTRUCTION

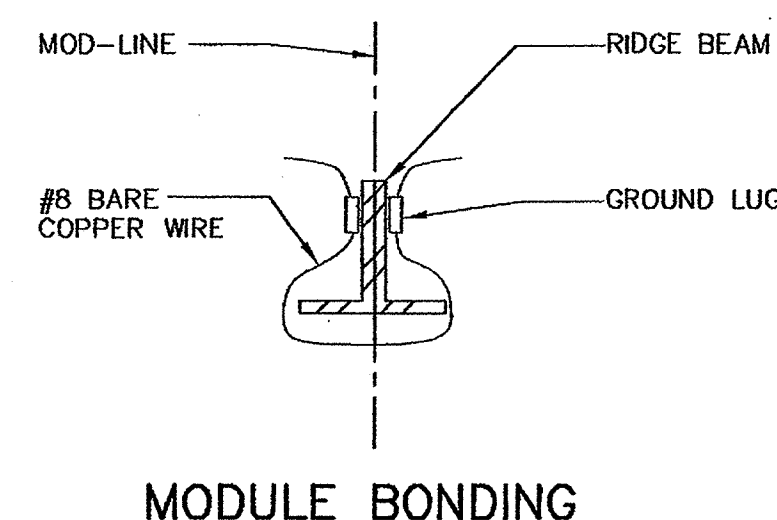
### FIRE ALARM NOTES

- FIRE ALARM SYSTEM SHALL COMPLY W/ TITLE 24 SEC. 305.9, TITLE 24, PART 3, ARTICLE 760 OF THE CALIFORNIA CODE OF REGULATIONS AND CALIFORNIA FIRE REGULATIONS, ARTICLE 10.
- 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 AND THE SIGNATURE OF THE ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, AND APPROVED BY THE OFFICE OF THE STATE ARCHITECT AND STATE FIRE MARSHAL.



- NOTES:
- SIZE OF CONDUCTORS SHALL COMPLY W/NEC TABLE 250-95.
  - BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & TO METAL BUILDING FRAME (NEC 250-81) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE (NEC 250-81 & 250-83).
  - ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING), INCLUDING RAMP TO STEEL FRAME.
  - CHECK RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS W/CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (NEC 250-84).
  - PROJECT INSPECTOR SHALL WITNESS GROUNDING TEST.

### ACCEPTABLE GROUNDING DETAIL BY OWNER



### MODULE BONDING

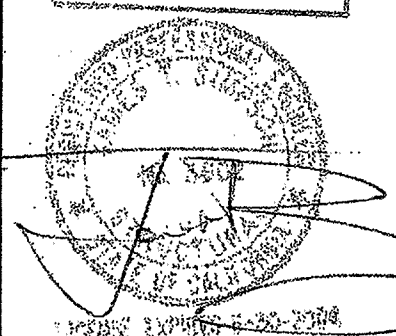
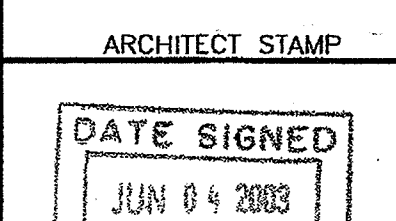
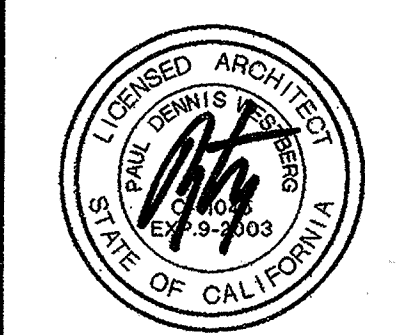
### ELECTRICAL POWER PLAN

PANELBOARD SCHEDULE											
PANEL A											
VOLTS 120/240			PHASE 1			BUSS 150 A			FEED BOTTOM		
MAIN BRKR 150 A			WIRE 3			MOUNT SURFACE			LOCATION EXTERIOR		
DESCRIPTION	WATTS	WIRE SIZE	WIRE SIZE	WIRE SIZE	WIRE SIZE	WIRE SIZE	WIRE SIZE	WIRE SIZE	WATTS	DESCRIPTION	WATTS
5-TON HEAT PUMP	5175	8	60	2	1	2	1	20	12	939	LIGHTS
5-TON HEAT PUMP	5175	8	60	2	1	4	1	20	12	939	LIGHTS
HEAT STRIP	2990	10	30	2	5	6	1	20	12	540	RECEIPT.
HEAT STRIP	2990	10	30	2	5	8	1	20	12	800	FLOOR MOUNTED J-BOX
FLOOR MOUNTED J-BOX	1200	10	30	2	5	10	1	20	12	800	FLOOR MOUNTED J-BOX
FLOOR MOUNTED J-BOX	1200	10	30	2	5	12	1	20	12	800	FLOOR MOUNTED J-BOX
FLOOR MOUNTED J-BOX	1200	10	30	2	5	14	1	20	12	800	FLOOR MOUNTED J-BOX
FLOOR MOUNTED J-BOX	1200	10	30	2	5	16	1	20	12	800	FLOOR MOUNTED J-BOX
RECEIPT.	1260	10	30	2	5	18	1	20	12	800	FLOOR MOUNTED J-BOX
		10	30	2	5	20	1	20	12	800	FLOOR MOUNTED J-BOX
SUB TOTAL	11,825	10,565							4,599	4,139	SUB TOTAL
LOAD KW	A 15.164										
	B 14.704										
TOT 29.868											
L.C.L. = 1,878 x 1.25 = 2,348						TOTAL LOAD					
OTHER = 27,990						MAX DEMAND 126.4 AMPS					
MAX DEMAND = 30,338											

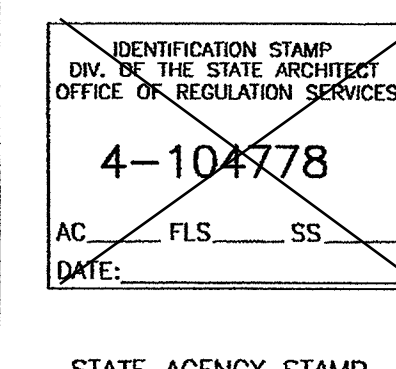
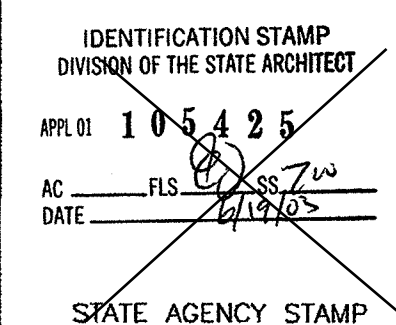
### ELECTRICAL LIGHTING PLAN

FIXTURE SCHEDULE		
SYMBOL	DESCRIPTION	WATTS
	2' x 4' FLUORESCENT DROP IN LIGHT FIXTURE ACRYLIC PRISMATIC LENS, DOUBLE ELECTRONIC BALLAST, (3) 32 WATT T-8 TUBES, WEIGHT 27 LBS.	96 WATTS
	INCANDESCENT SURFACE MOUNTED EXTERIOR LIGHT FIXTURE WITH IMPACT RESISTANT ENCLOSURE WITH DIRECTIONAL PHOTO CELL CONTROL ON ROOF.	75 WATTS

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PROJECT  
36'x40'  
BUSINESS LAB

TITLE  
36'x40'  
ELECTRICAL LIGHTING PLAN  
ELECTRICAL POWER PLAN

JOB # 03-1003

DATE 5-8-03

DRAWN BY db

SCALE 1/4"=1'-0"

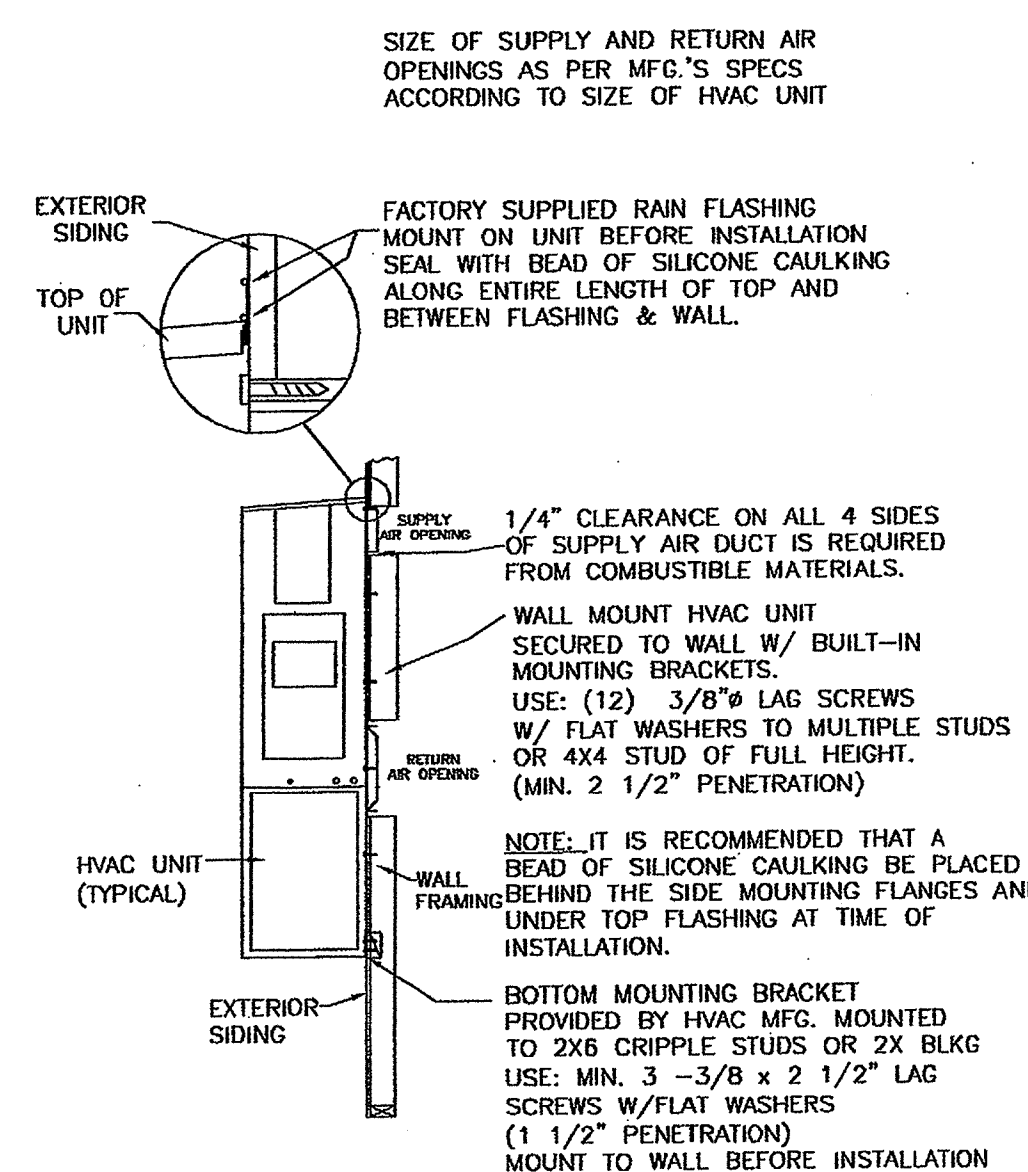
APPROVED

REVISIONS

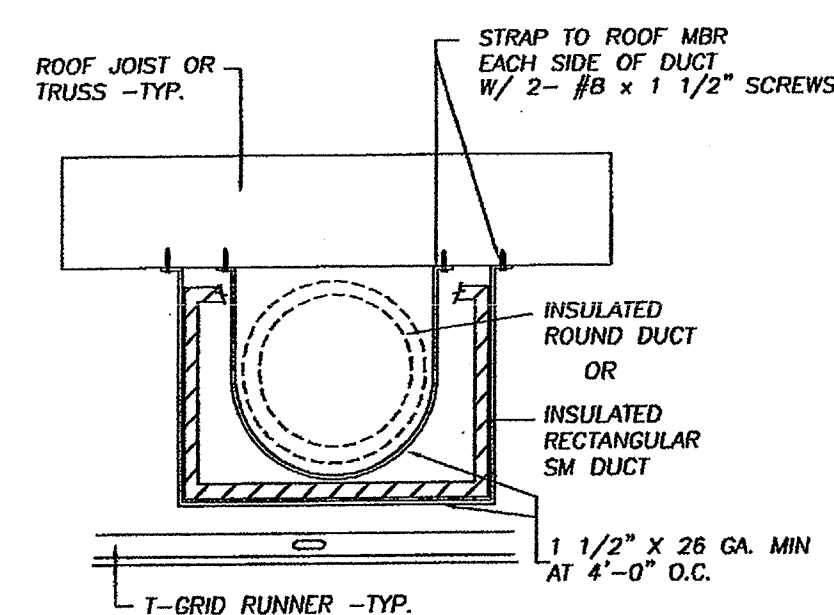
SHEET NO.

E-1.2-36

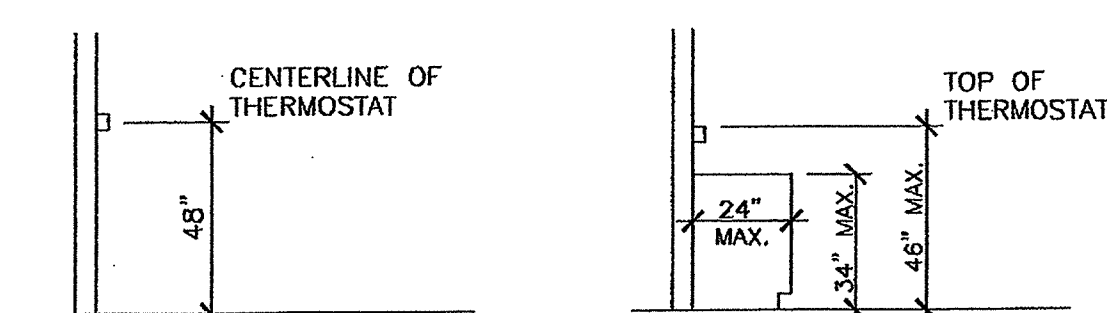




AIR FILTER: SEE GEN. NOTES  
ON ARCH'L SHEET OF PLANS  
**HVAC MOUNTING**  
SCALE: 3/4" = 1'-0"



FACTORY-MADE AIR DUCTS: SEE GENERAL NOTES  
ARCH'L SHEET OF PLANS  
**DUCT MOUNTING**  
SCALE: 1" = 1'-0"



**MOUNTING HEIGHT OVER OBSTRUCTION**

BARD HVAC OPENING & SUPPLY		
10 SEER	SIZE	OPENING
WH	5.0 TON	31 X 11

### EQUIPMENT & MATERIAL SCHEDULE

**5 TON**  
HEAT PUMP 'BARD' WALLMOUNT, WH60-A05VP4 5KW  
56,000 NOM. BTUH COOLING CAPACITY-10.20 SEER  
56,000 NOM. BTUH HEATING CAPACITY FROM COMPRESSOR-7.00 HSPF  
ADDITIONAL 17,065 NOM. BTUH HEATING CAPACITY FROM HEAT STRIP  
DUAL CIRCUIT:  
CIRCUIT#1: MCA 45, MOCP 60, MIN. WIRE SIZE #8  
CIRCUIT#2: MCA 26, MOCP 30, MIN. WIRE SIZE #10  
1875 CFM @ .3 ESP, UNIT WEIGHT 510 LBS., 230 V., 60 CYCLE, SINGLE PHASE

**NOTE:**  
ADJUST OUTSIDE AIR DAMPER  
TO A MIN. OF 534 CFM

① THERMOSTAT - WHITE ROGERS 1F92-371  
AUTO CHANGEOVER, ELECTRONIC, 5+2 DAY  
3 HEAT, 2 COOL, MOUNT AT +48" A.F.F.  
USE STAT GUARD #29-0277

■ SUPPLY REGISTER, CEILING, SHOEMAKER  
104-CDD, 16x16-12, T-BAR, CDD  
4 WAY FIXED CURVE BLADE, U.N.O.

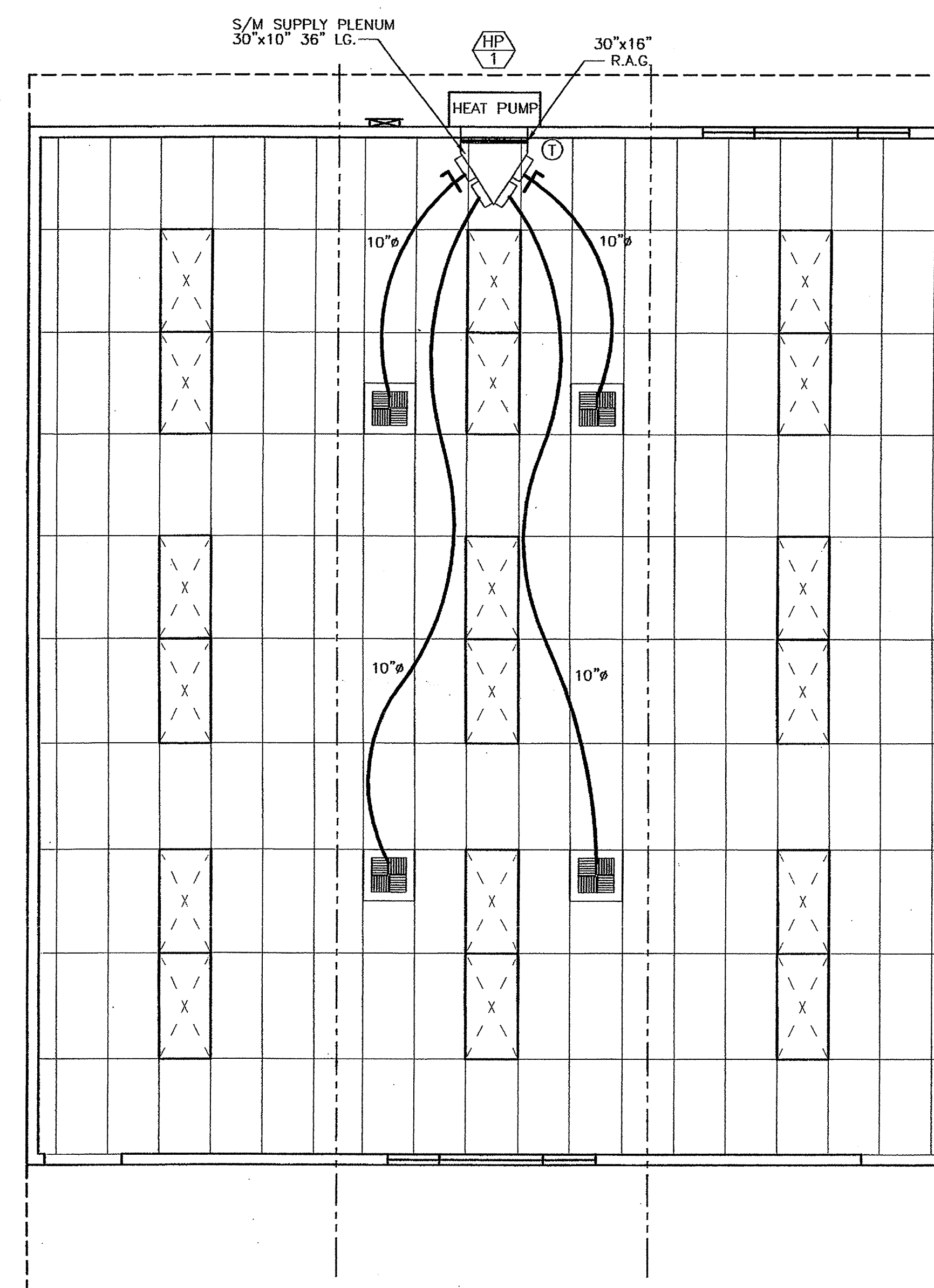
□ SUPPLY BALANCE DAMPER (SIZE AS NOTED)

### MECHANICAL NOTES

FLEXIBLE DUCT SHALL BE MODULAR METAL FABRICATORS SERIES  
FDMA RA.2 WITH INSULATION, A POLY JACKET, AND A WIRE  
ENCAPSULATED NON-PERFORATED CORE THAT COMPLIES  
WITH ASTM C-518, 1991. FLEXIBLE DUCTING SHALL BE  
UL LISTED CLASS 1 AIR DUCT WITH A FLAME SPREAD  
RATING NOT TO EXCEED 25, AND A SMOKE-DEVELOPED RATING NOT  
TO EXCEED 50 IN ACCORDANCE WITH NFPA 90A & 90B.

THERMOSTAT PROGRAMMING TO BE PERFORMED AND BATTERY PROVIDED BY OTHERS ON SITE.  
TEST AND BALANCE OF HVAC SYSTEM TO BE PROVIDED AND PERFORMED BY OTHERS ON SITE.  
ALL HVAC EQUIPMENT LEAVES FACTORY WIRED FOR 240V. OPERATION. THE ACCEPTABLE  
OPERATING RANGE FOR THE 240 & 208 TAPS ARE:

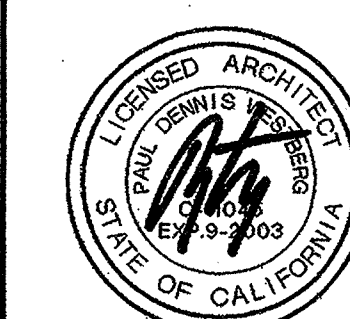
TAP	RANGE
240	253-216
208	220-187



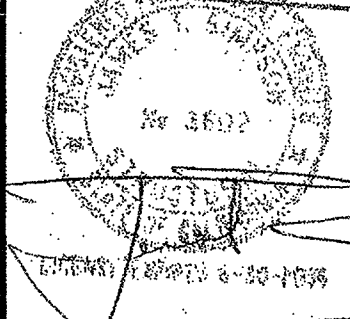
**MECHANICAL PLAN**  
SCALE: 1/4" = 1'-0"

**MSI**  
MODULAR STRUCTURES INTERNATIONAL, INC.  
920 CITRUS AVE. RIVERIDE, CALIFORNIA 92507  
PHONE: (909) 788-3035 FAX: (909) 788-1523

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DATE SIGNED  
JUN 04 2003



STRUCTURAL ENGINEER STAMP

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APP: 01 105478  
AC FLS SS  
DATE 12/19/23  
STATE AGENCY STAMP

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DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
4-104778  
AC FLS SS  
DATE  
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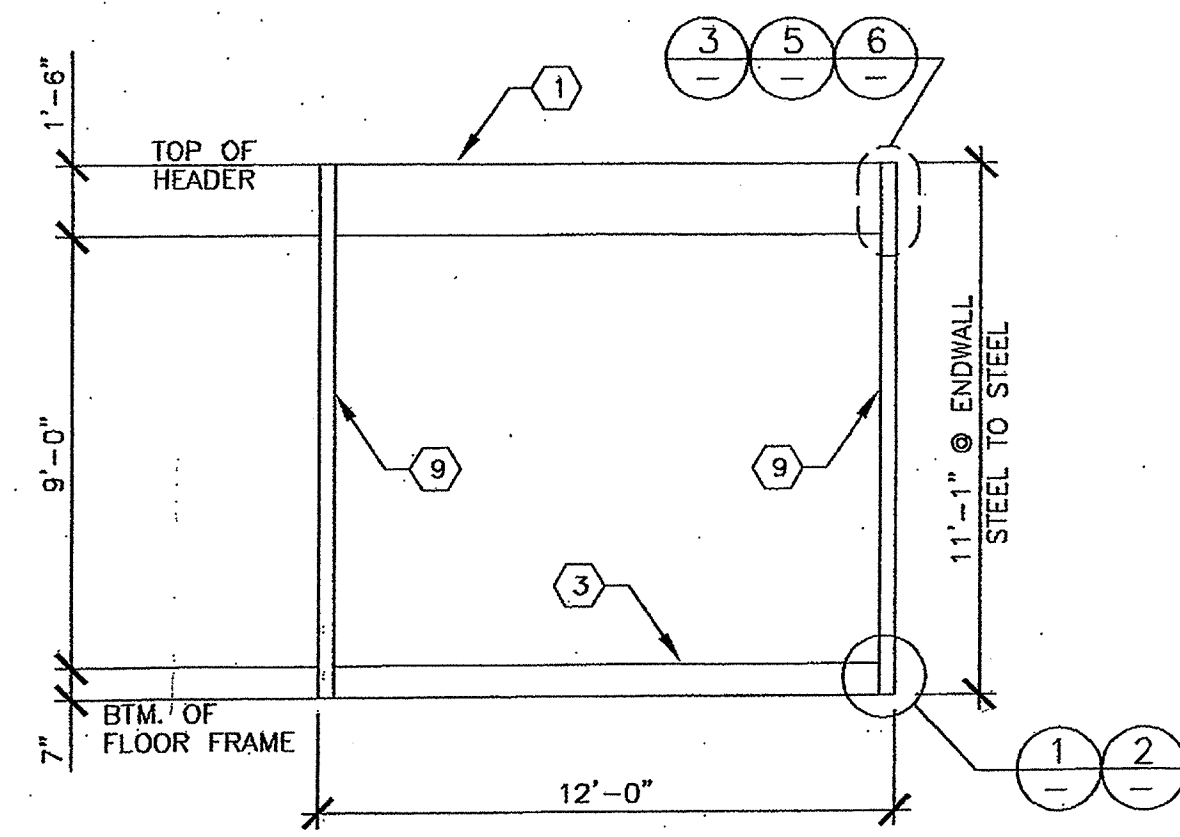
PROJECT 36'x40' BUSINESS LAB  
TITLE 36'x40' MECHANICAL PLAN

JOB # 03-1003  
DATE 5-6-03  
DRAWN BY db  
SCALE 1/4" = 1'-0"  
APPROVED  
REVISIONS  
SHEET NO.  
M-1.2-36

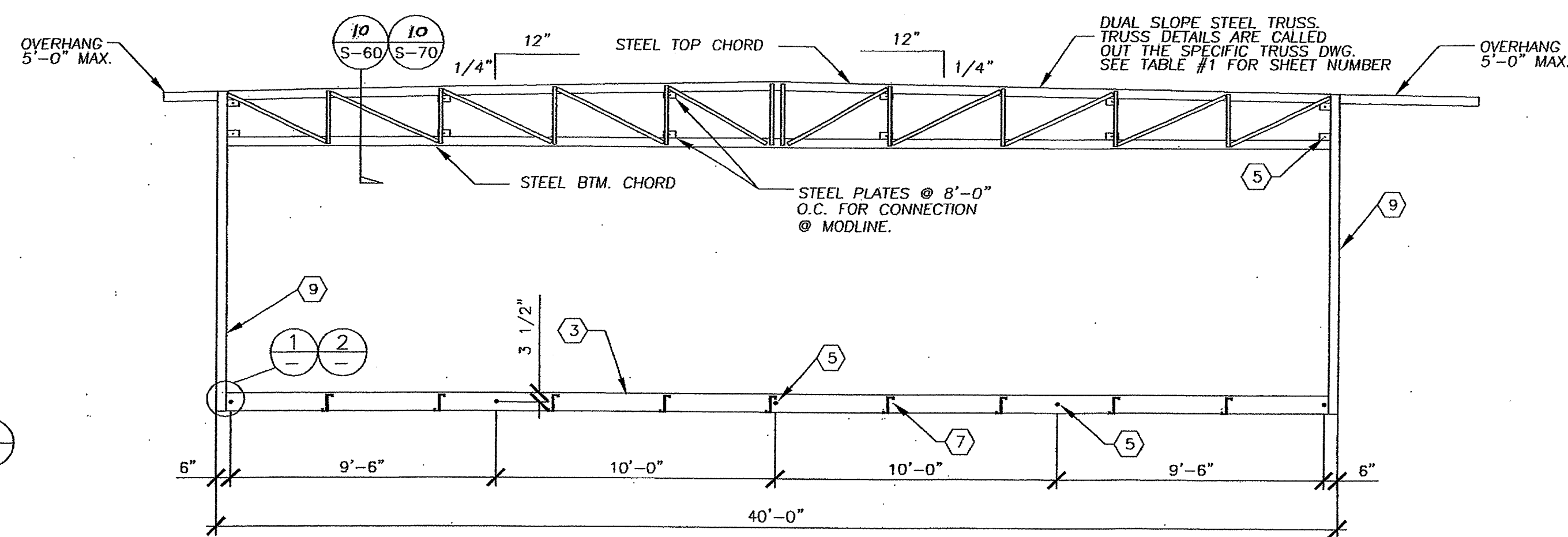






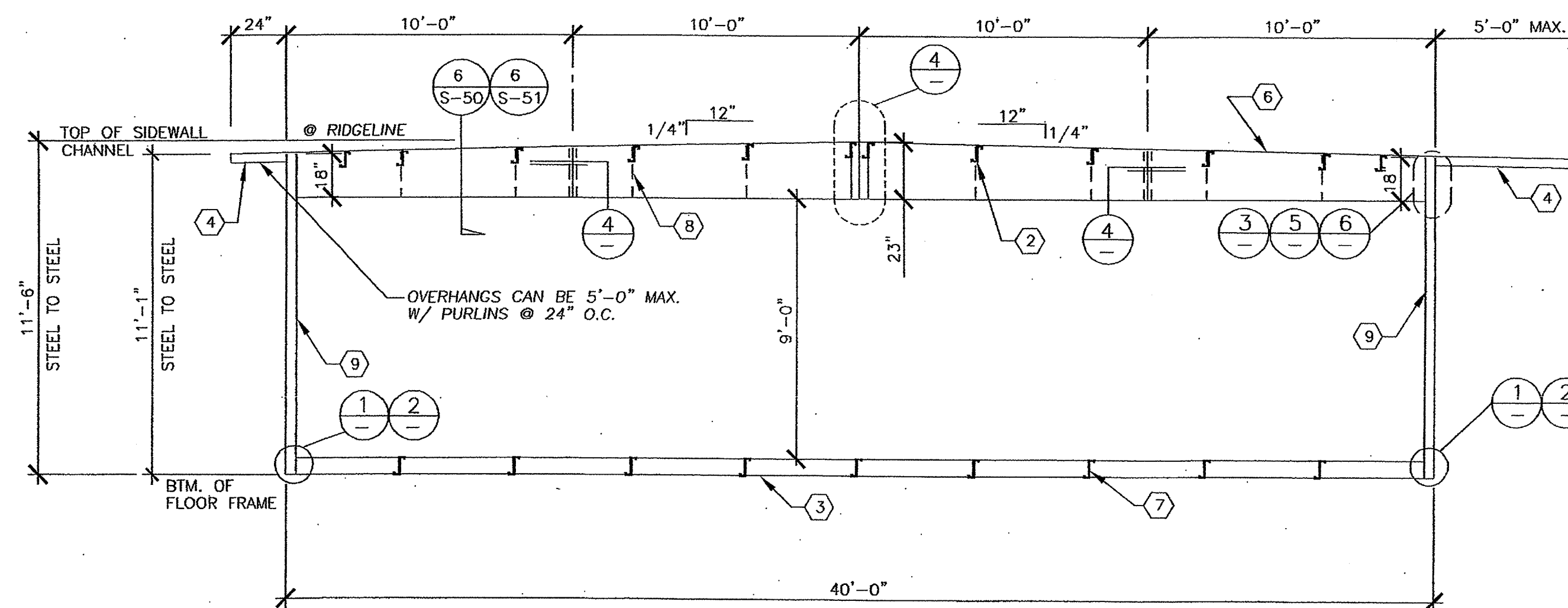


STRUCTURAL SECTION  
AT ENDWALL  
SCALE: 1/4" = 1'-0"



MODLINE SECTION  
W/ DOUBLE SLOPE TRUSS, SEE SPECIFIC  
TRUSS DRAWING PER TABLE #1 FOR DETAILED INFORMATION  
SCALE: 1/4" = 1'-0"

TRUSS TABLE #1	
SHEET #	TRUSS DESCRIPTION
S-60	DUAL SLOPE 20 PSF ROOF LOAD, 80 MPH WIND LOAD
S-70	DUAL SLOPE 30 PSF ROOF LOAD, 80 MPH WIND LOAD



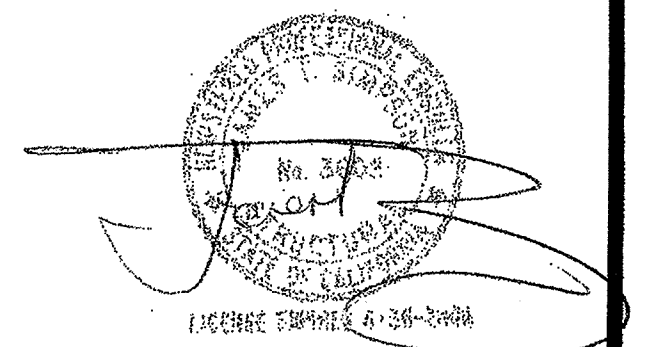
STRUCTURAL SECTION AT SIDEWALL  
SCALE: 1/4" = 1'-0"

## KEY NOTES

- 3 1/2" x 18" x 12 Ga. RFC STEEL ROOF HEADER.
- 6" x 2 x 14 Ga. STEEL ROOF JOIST FOR 20 PSF ROOF.  
OR 7 x 1 1/2 x 11 Ga. FOR 30 PSF ROOF.
- C7" x 9.8 LB. PERIMETER FRAME
- 10"x3"x12 GA. CHANNEL AT OVERHANG OR OPTIONAL  
L 4"x3"x3/8" PURLIN & OUTRIGGER AT 20 PSF ROOF OR  
L 5"x3"x3/8" OUTRIGGER & L 4"x3"x3/8" PURLIN AT 30 PSF ROOF
- 5/8" MACHINE BOLT @ MODULE CONNECTION LOCATIONS
- TAPERED 10 GA. CHANNEL SECTION, BEAM.  
18" x 23" x 18" x 3 1/2" x 10 GA.
- 1" MEMBER - FLOOR JOIST.
- 1/4" PLATE FULL HT. STIFFENER AT 4' O.C.
- STEEL COLUMN - USE 3 1/2" x 3 1/2" x 1/4" TUBE AT CORNERS.
- NOT USED.
- 1/4" CAP PLATE.
- 1/4" PLATE FITTED INSIDE TUBE COLUMN AND WELD IN PLACE.

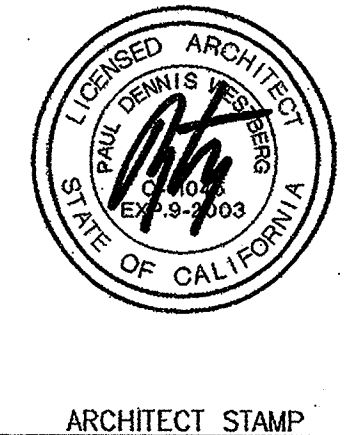
BUILDING HEIGHT NOTE:  
THE BUILDING HEIGHTS SHOWN  
ON THESE DETAILS DO NOT INCLUDE  
THE PLYWOOD ROOF DECK OR THE  
FINISH ROOFING MATERIALS.

DATE SIGNED  
JUN 04 2003



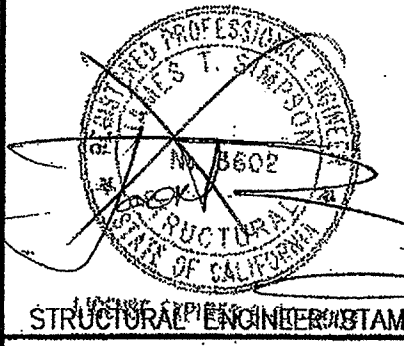
**MSI**  
MODULAR STRUCTURES INTERNATIONAL, INC.  
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507  
PHONE: (951) 788-3033 FAX: (951) 788-1523

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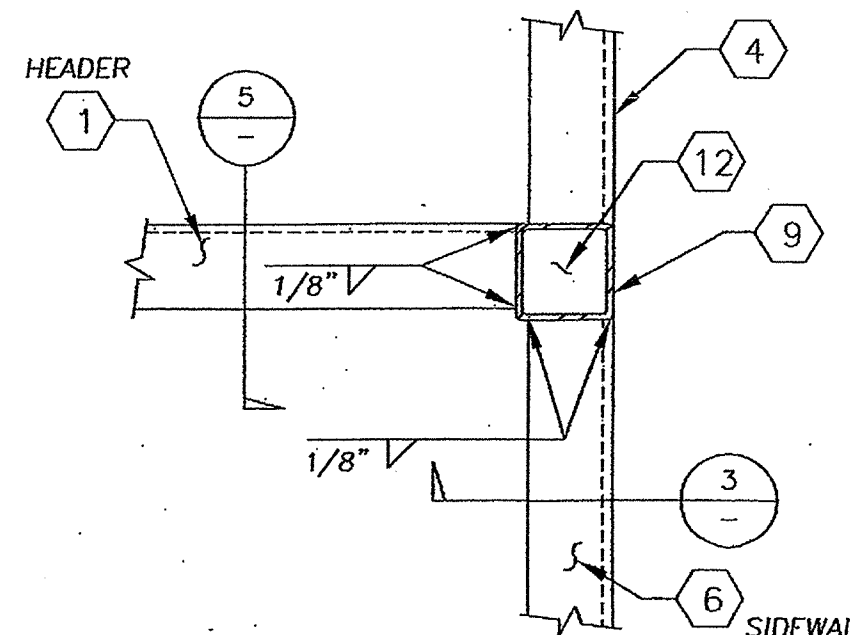
DATE SIGNED  
MAY 21 2003



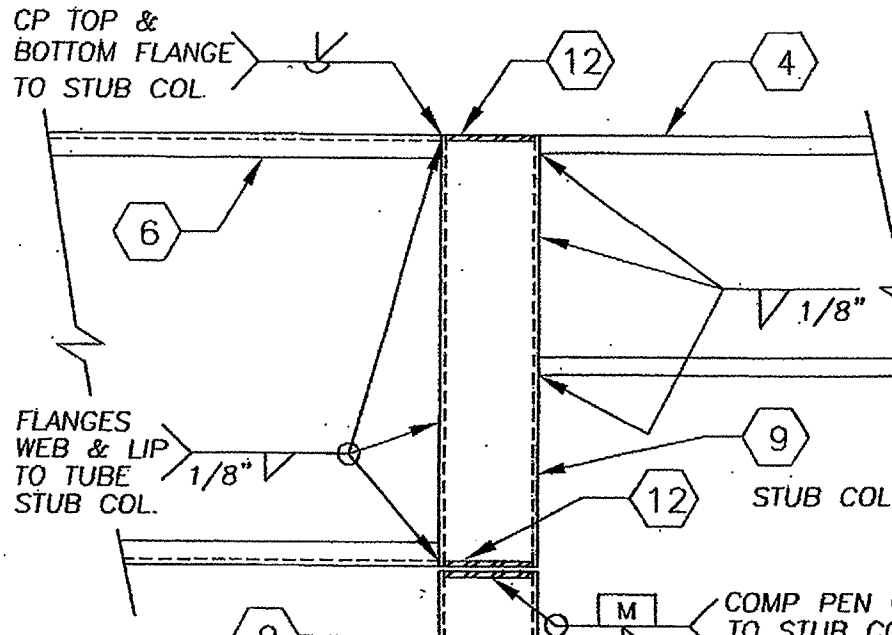
STRUCTURAL ENGINEER STAMP

PROJECT: MODULAR CLASSROOM BUILDING  
TITLE & BLDG. DATA:  
RIGID FRAME SECTION & DETAILS  
DUAL SLOPE W/ MODLINE TRUSS  
WIND LOAD: 80 MPH  
ROOF LOAD: 20 & 30 PSF  
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

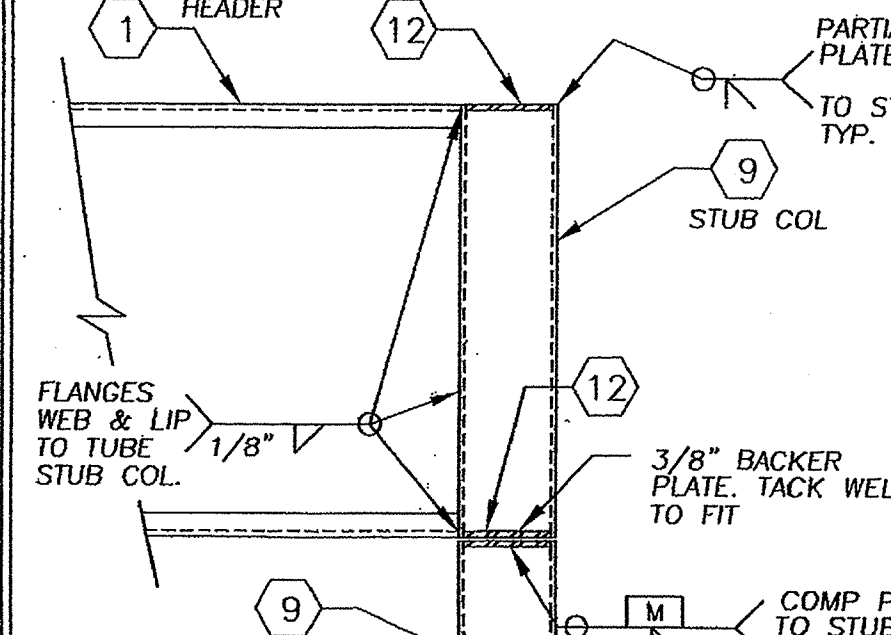
JOB #  
DATE 12/1/02  
DRAWN BY JAG  
SCALE 1/4" = 1'-0"  
APPROVED  
REVISIONS  
SHEET NO. S-5



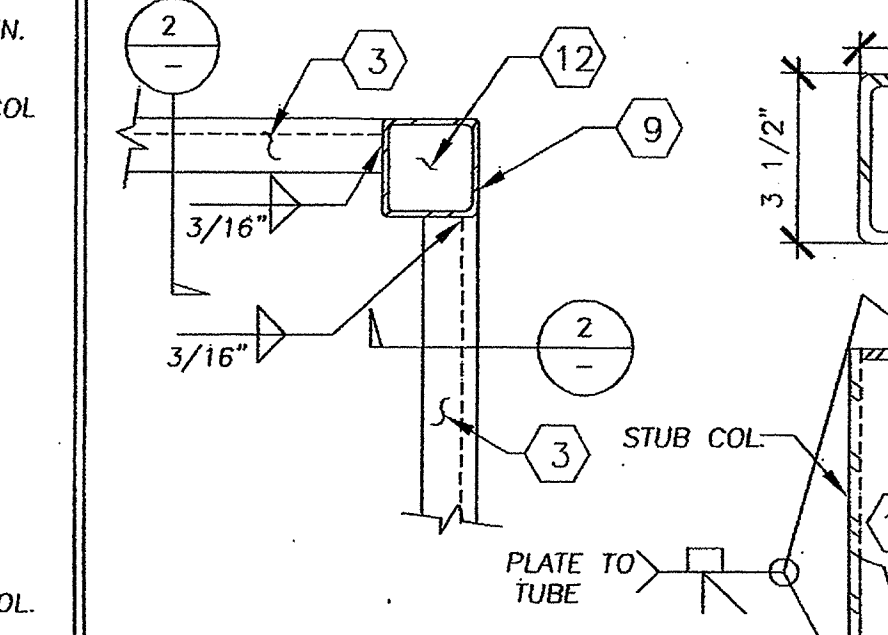
POST CONN. @ ROOF  
SCALE: 1 1/2" = 1'-0"



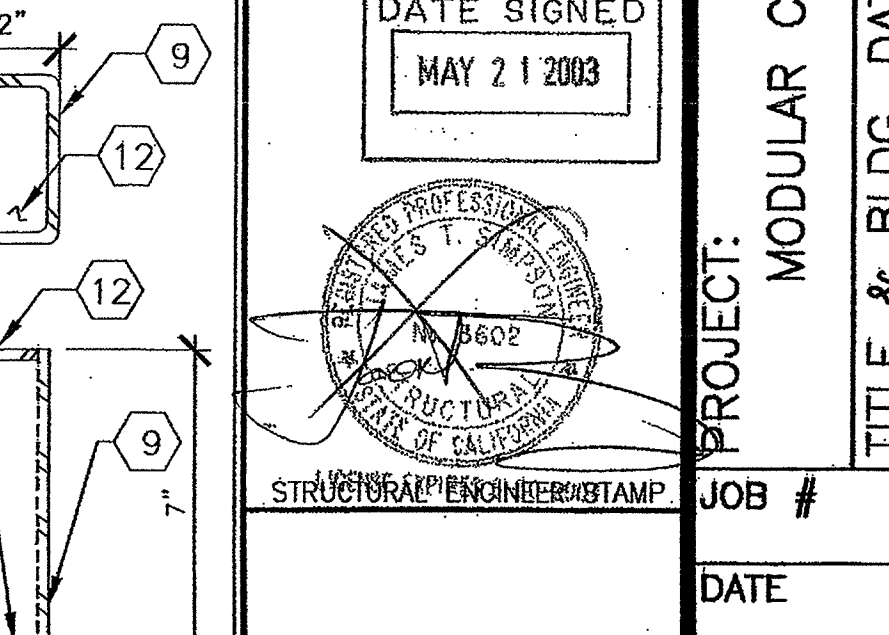
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SCALE: 1 1/2" = 1'-0"



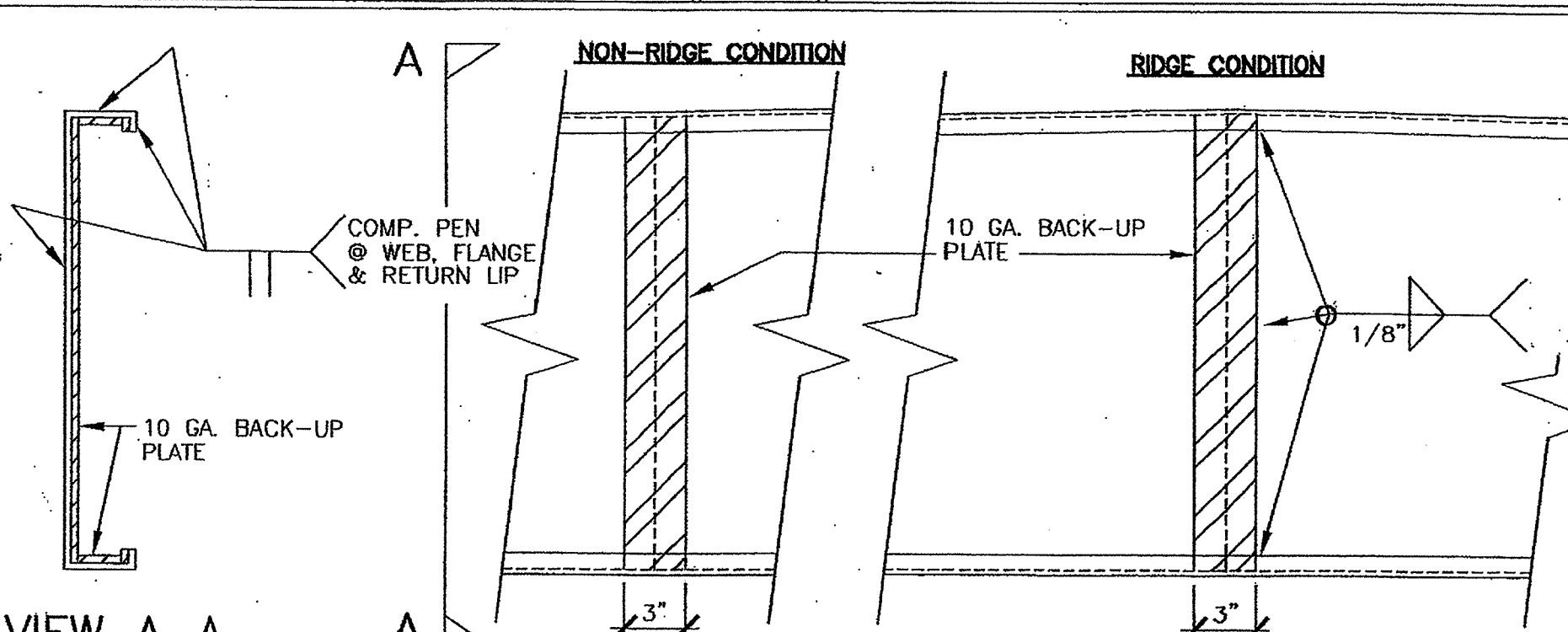
POST CONN. @ ROOF  
SCALE: 1 1/2" = 1'-0"



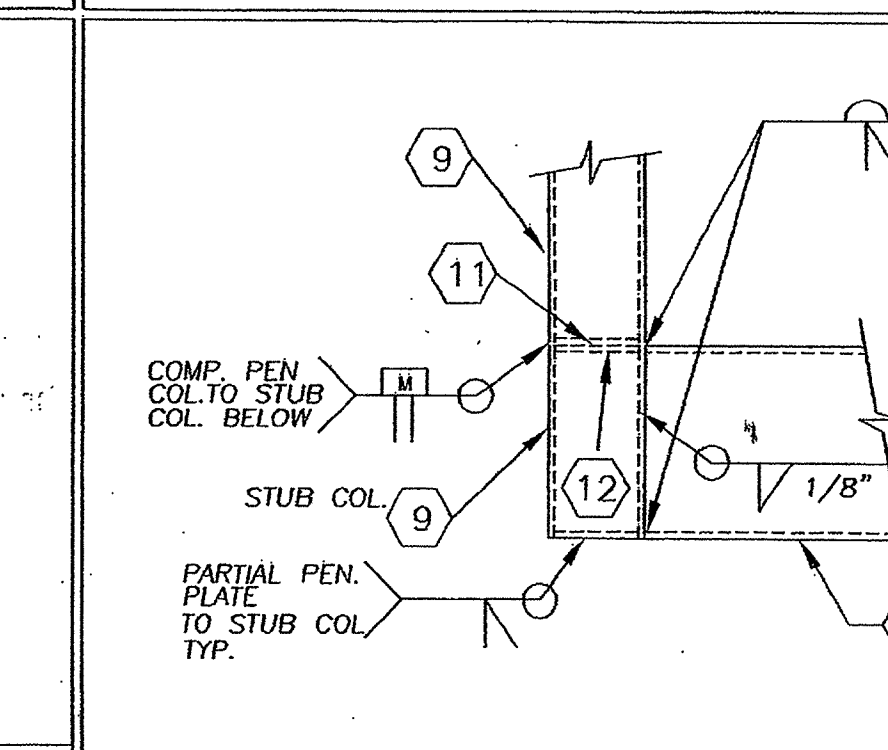
POST CONN. @ ROOF  
SCALE: 1 1/2" = 1'-0"



CORNER CONN. @ FLOOR  
SCALE: 1 1/2" = 1'-0"



VIEW A-A  
LIGHT GA. BEAM SPLICE (N.T.S.)



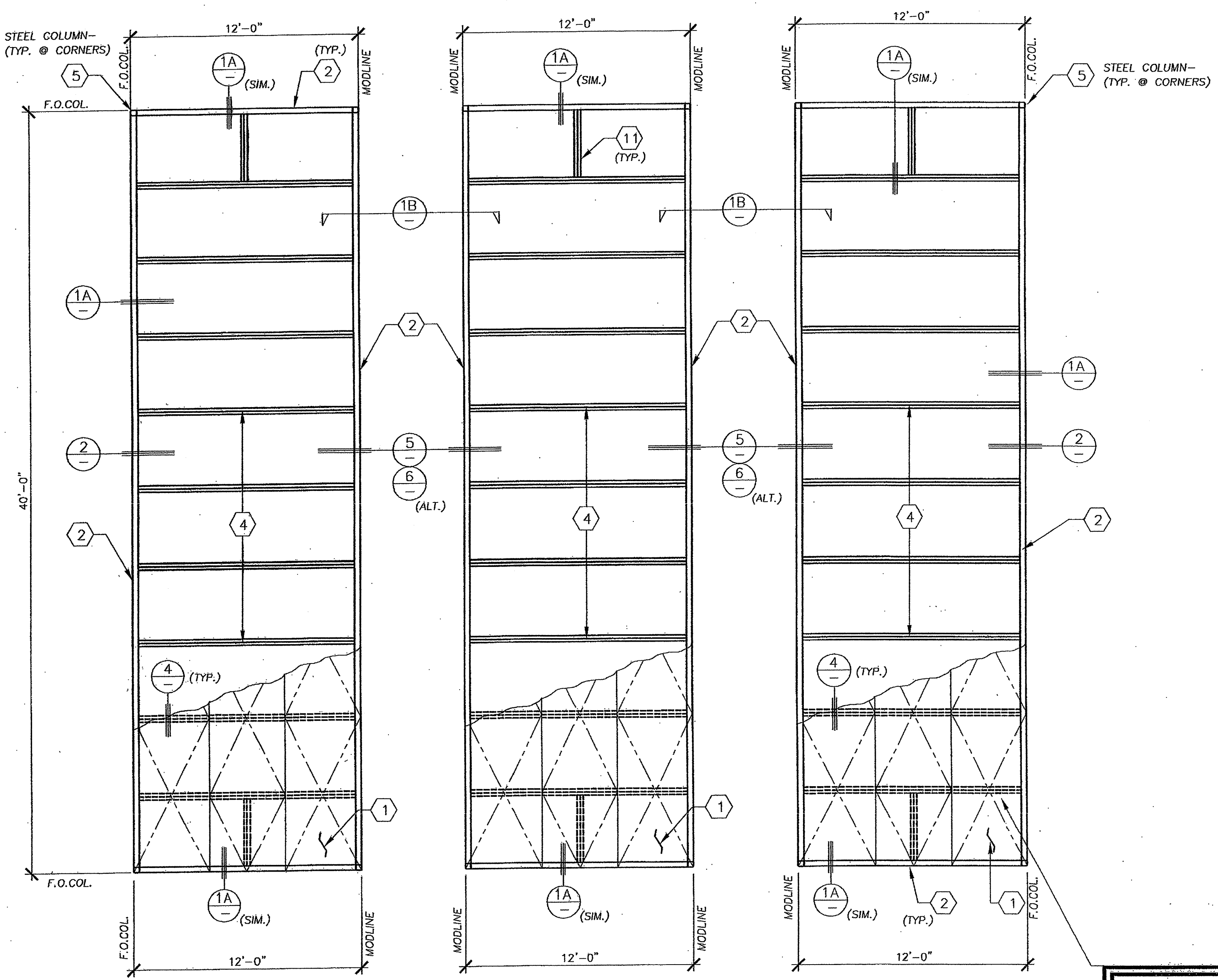
POST CONN. @ FLOOR  
SCALE: 1 1/2" = 1'-0"

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DIVISION OF THE STATE ARCHITECT  
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AC DATE 6/10/25  
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OFFICE OF REGULATION SERVICES  
4-104778  
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LEFT HAND MODULE

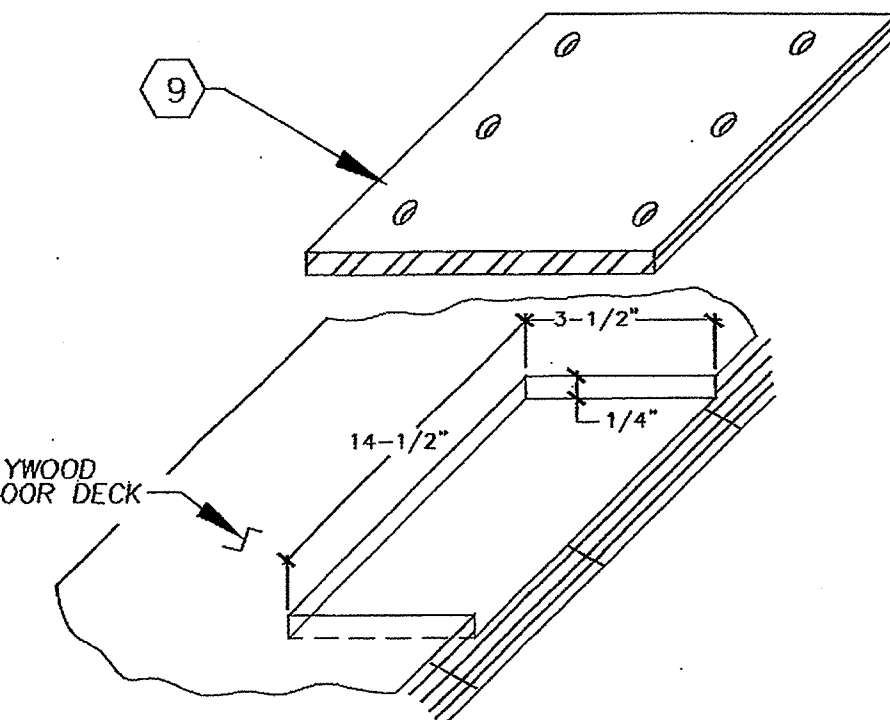
CENTER MODULE

RIGHT HAND MODULE

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

NOTE:  
FLOOR JOIST  
ARE SHOWN AT  
48" O/C AS AN  
EXAMPLE ONLY.  
CALCS. WILL  
DETERMINE SPACING  
FOR REQUIRED LOADS.  
(SEE SCHEDULE  
BELOW)

MOD. CONN. @ FLOOR  
SCALE: 3" = 1'-0"



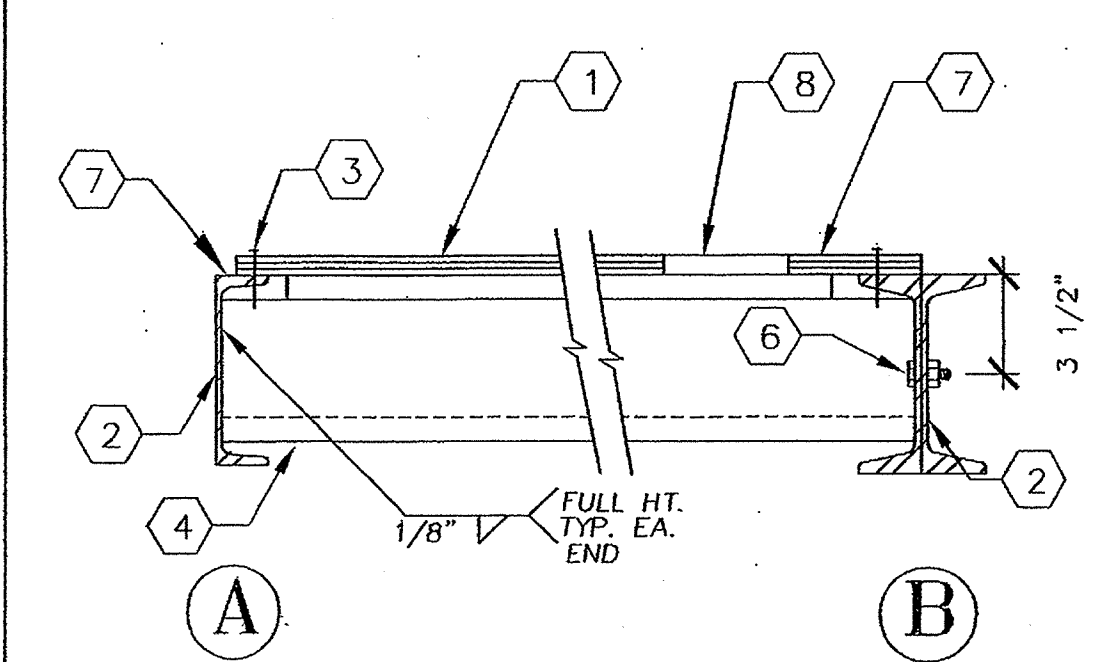
MOD. LINE CONN. PLATE ALT.  
SCALE: N.T.S.

KEY NOTES

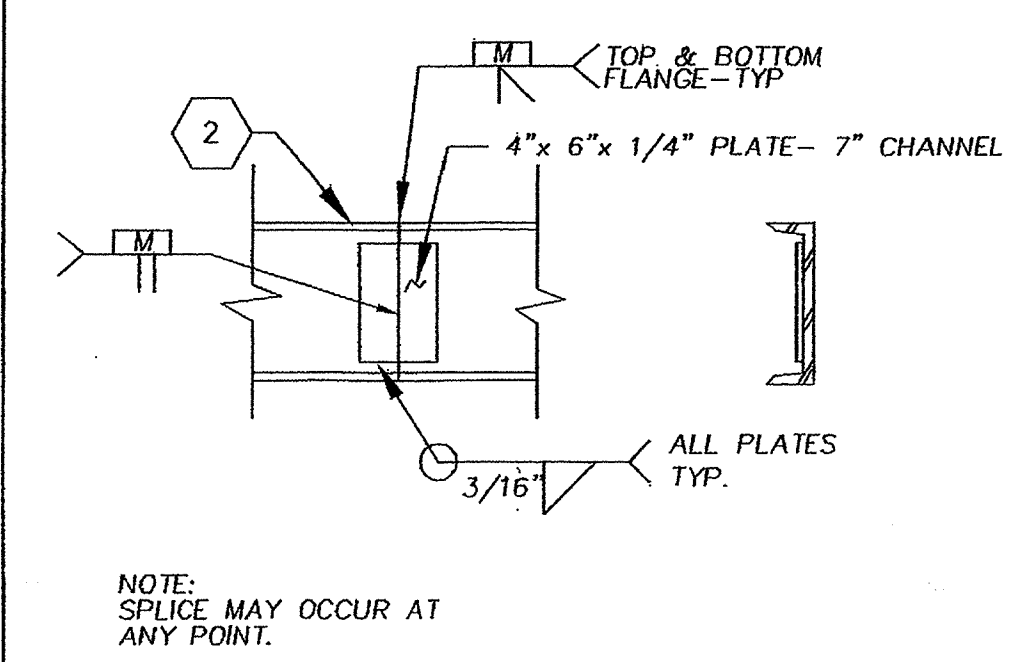
1. PLYWOOD FLOOR SHEATHING - 1 1/8" A.P.A. RATED OR EQUAL, P.S. 1-95 T & G EDGES, 48" SPAN RATING; ATTACH TO STEEL FRAMING WITH 170/132 PIN OR #10-24x1 3/4" SELF TAP SCREW @ 6" O.C. BOUNDARY & EDGES AND 10" O.C. FIELD.
2. 7" x 9.8 LB. PERIMETER FRAME
3. 0.145" SHOT PIN @ 6" O.C. PLYWOOD DECK TO PERIMETER CHANNEL
4. FLOOR JOIST L MEMBER. SEE SCHEDULE BELOW.
5. STEEL CORNER COLUMN.
6. 5/8" MACHINE BOLT AT 10'-0" O.C. @ MODULE CONNECTION.
7. AT MODULE JOINT TAKE PLYWOOD TO EDGE OF CHANNEL. AT PERIMETER, HOLD PLYWOOD BACK AS INDICATED.
8. 5" DIA. HOLE AT BOLT LOCATION. (OPTIONAL)
9. 6" x 14" x 12 GA. PLATE WITH (6) #10-34 x 1 3/4" FLAT HEAD SELF TAP SCREWS INTO STEEL CHANNEL FLOOR FRAME @ 10" O.C.
10. R-11 INSULATION ON 'SEAL TITE' TYPE HW POLYMAX UNDERBELLY OR EQUAL WITH BIDIRECTIONAL POLYESTER FIBERS.
11. 7"x1 1/2"x11 GA. 'Z' MEMBER @ MIDSPAN.

FLOOR JOIST SCHEDULE		
LOAD	JOIST	SPACING
50 PSF	Z 7x1 1/2x11 GA.	48" O.C.
50+20 PSF	Z 7x1 1/2x11 GA.	32" O.C.
100 PSF	Z 7x1 1/2x11 GA.	24" O.C.
125 PSF	Z 7x1 1/2x11 GA.	16" O.C.

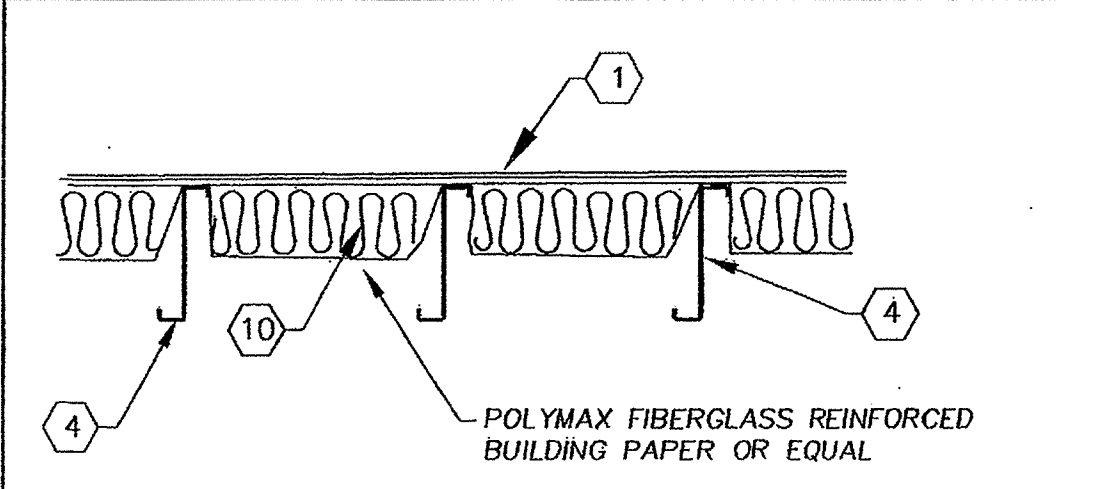
PERIMETER FLOOR  
SCALE: 1 1/2" = 1'-0"



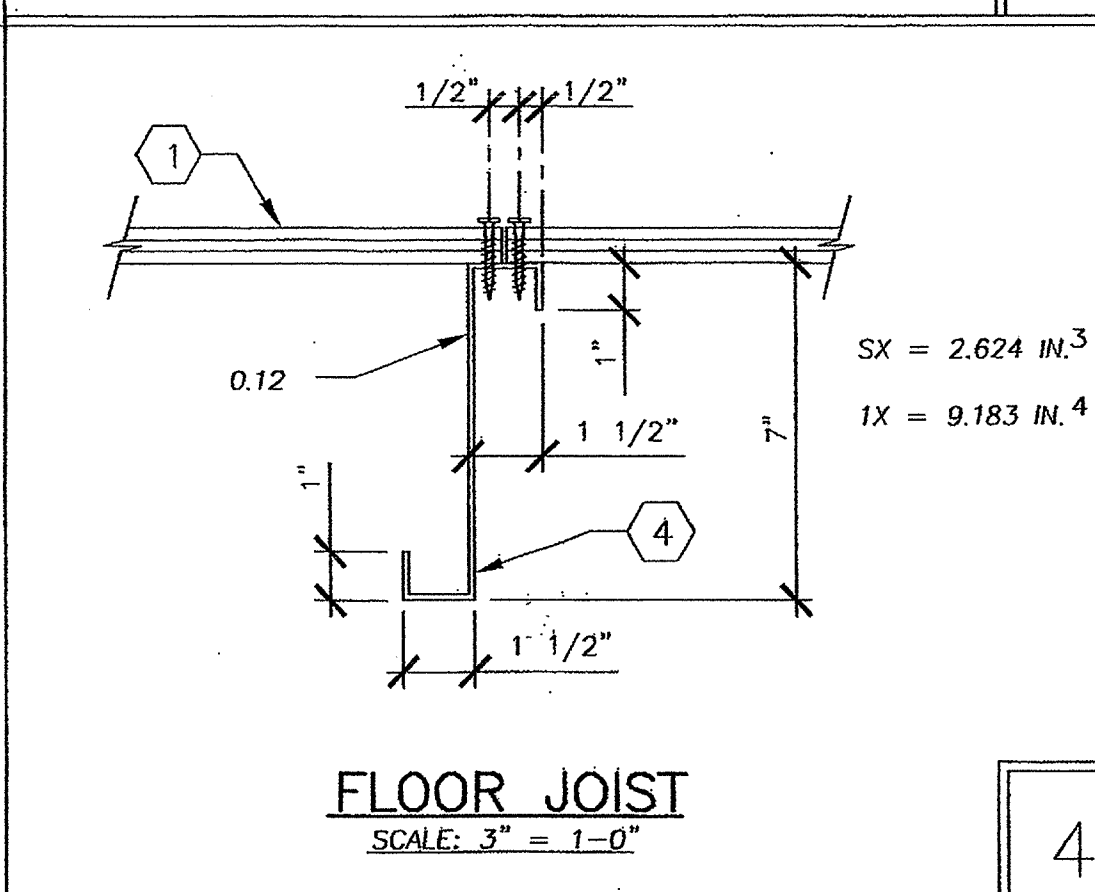
CHANNEL SPLICE  
SCALE: 1 1/2" = 1'-0"



INSULATION @ FLOOR  
SCALE: N.T.S.



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



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JUN 04 2003

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JUN 04 2003

ARCHITECT STAMP  
STATE OF CALIFORNIA  
JUN 04 2003

DATE SIGNED  
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MAY 21 2003

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OFFICE OF REGULATION SERVICES  
4-104778  
AC FLS  
DATE 5-30-23  
STATE AGENCY STAMP

PROJECT:  
MODULAR CLASSROOM BUILDING

TITLE & BLDG. DATA:  
FLOOR FRAMING PLAN AND DETAILS  
FOR PLYWOOD FLOOR

WIND LOAD: 80 & 90 MPH  
ROOF LOAD: 20 & 30 PSF  
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

DATE 12/1/02

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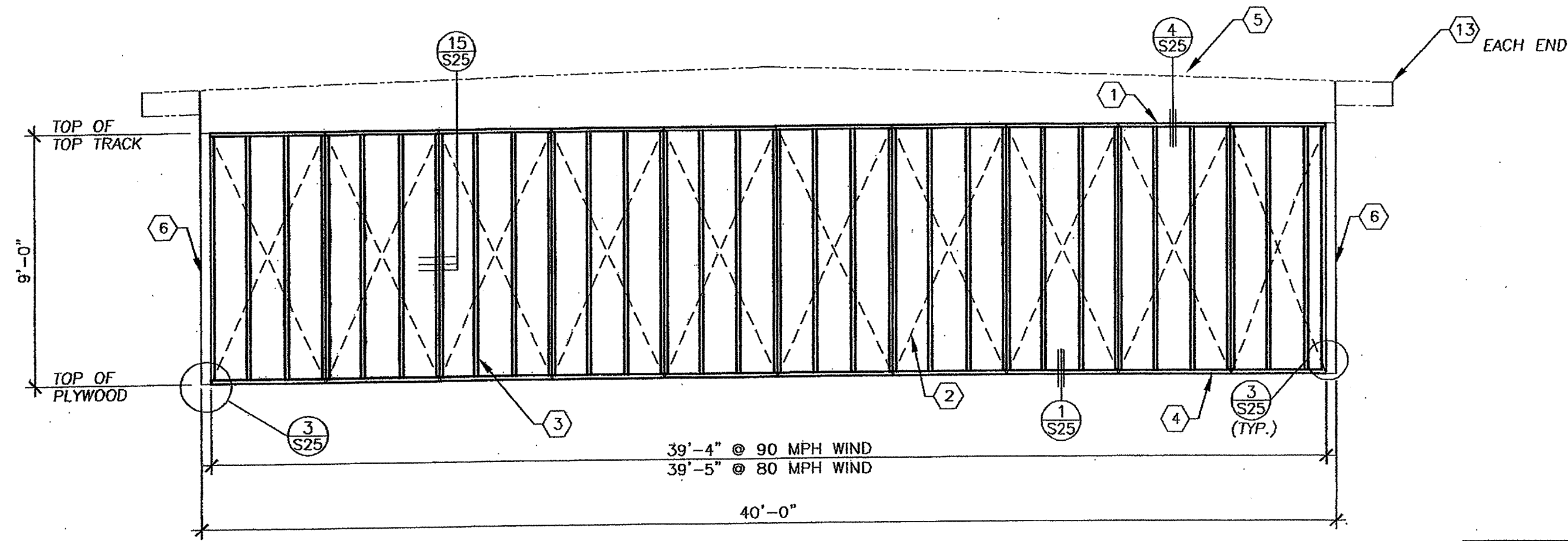
SCALE AS NOTED

APPROVED

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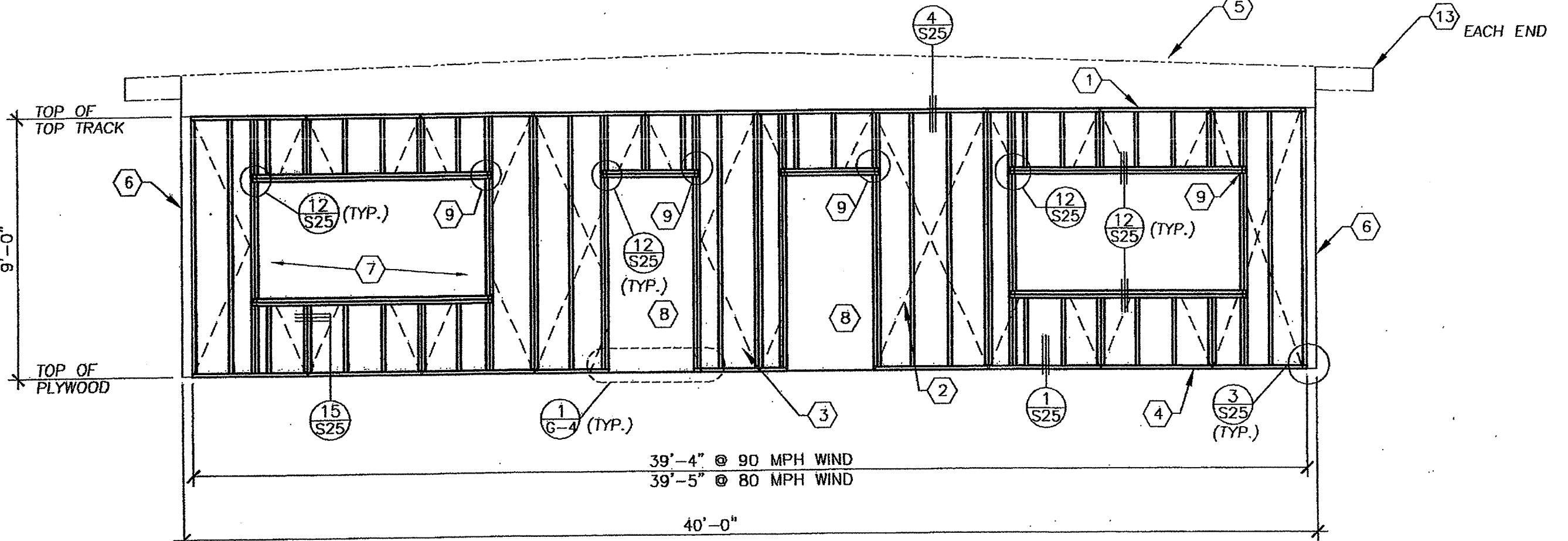
SHEET NO.  
S-10





TYPICAL SIDEWALL W/NO OPNG'S  
SCALE: 1/4" = 1'-0"

NOTE:  
DOOR AND WINDOW LOCATIONS CAN BE  
LOCATED ANY WHERE IN SIDE WALL. FOR  
EXACT LOCATION OF DOORS, WINDOWS AND  
HVAC OPENINGS SEE FLOOR PLAN.

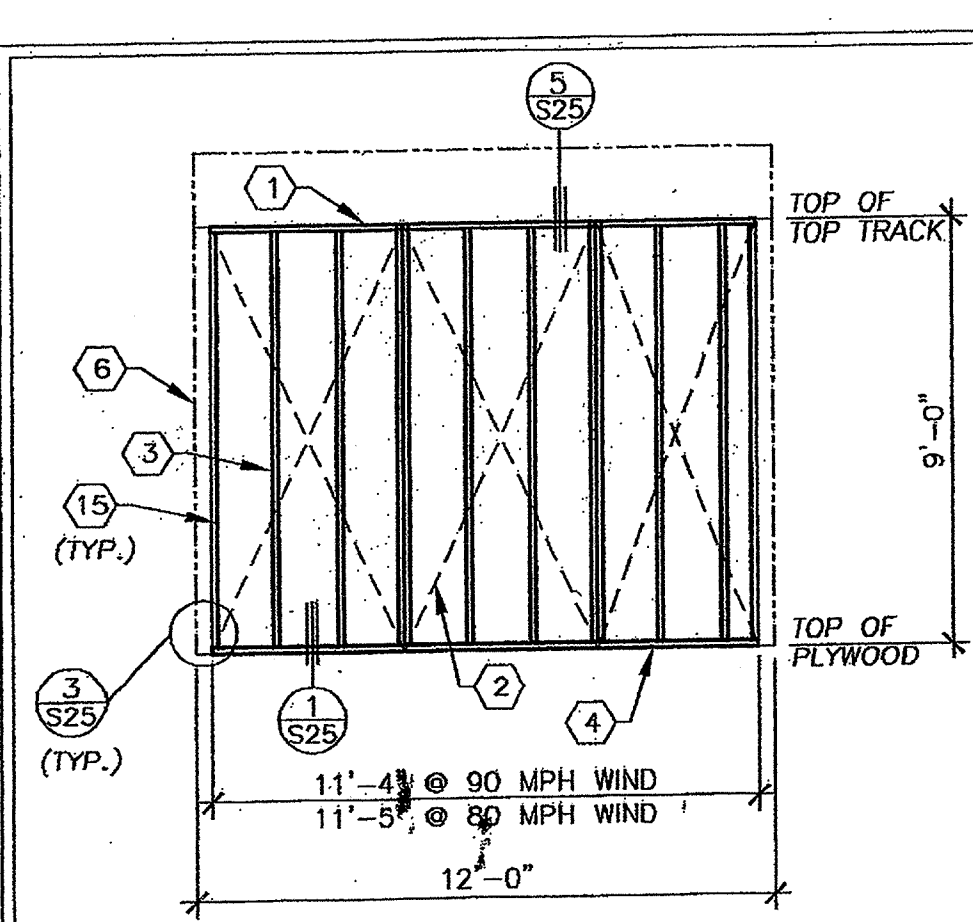


TYPICAL SIDEWALL W/DOORS & WINDOWS  
SCALE: 1/4" = 1'-0"

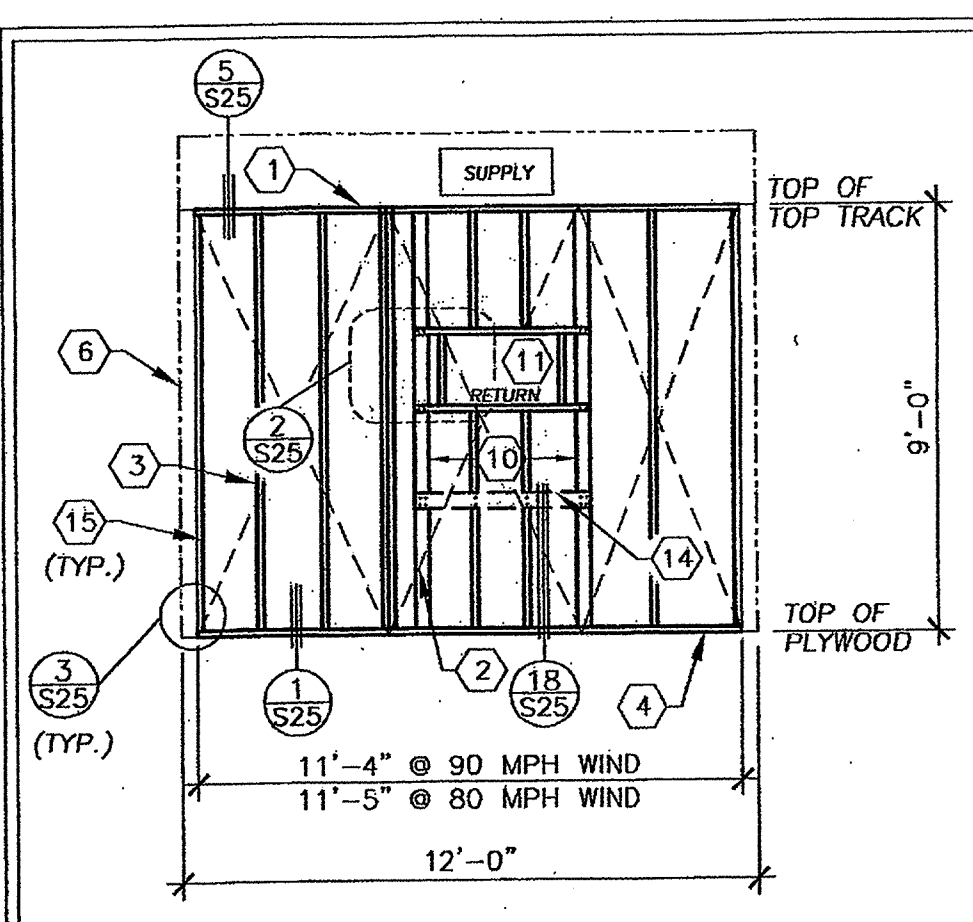
NOTE:  
DOOR AND WINDOW LOCATIONS CAN BE  
LOCATED ANY WHERE IN SIDE WALL. FOR  
EXACT LOCATION OF DOORS, WINDOWS AND  
HVAC OPENINGS SEE FLOOR PLAN.

- ### KEYNOTES
1. CONTINUOUS 3 1/2" x 20 GA. TOP TRACK.
  2. PLYWOOD SIDING/SHEATHING  
NAIL SIDING WITH CORROSION RESISTANT  
8d BOX NAILS @ 6" BOUNDARY & EDGES, 12" FIELD.
  3. 3 1/2" x 20 GA. STUDS @ 16" O.C.
  4. CONTINUOUS 3 1/2" x 20 GA. BTM. TRACK.
  5. STEEL FRAME - SEE SHEET S-50 - S-51 "STRUCTURAL  
SECTIONS" FOR MEMBER TYPES AND SIZES.
  6. STEEL CORNER COLUMN.
  7. FRAME FOR 8040 WINDOW USE (2) FULL HEIGHT 3 1/2" x 20 GA.  
JAMB STUDS, (2) 3 1/2" x 20 GA. TRACKS FOR HEADER,  
(2) 3 1/2" x 20 GA. TRACKS FOR WINDOW SILL.
  8. FRAME FOR 3'-0" x 6'-8" DOOR USE (2) FULL HEIGHT  
3 1/2" x 20 GA. JAMB STUDS & (2) 3 1/2" x 20 GA. TRACKS  
FOR HEADER.
  9. ATTACH HEADER OR SILL TO 3 1/2" x 20 GA. STUD  
WITH #8 x 1/2" SELF TAP SCREWS.  
AT CORNERS OF ALL OPENINGS.
  10. 4x4 D.F. POST
  11. FRAME FOR A/C UNIT.
  12. NOT USED
  13. OVERHANG, (5'-0" MAX.)
  14. NOTCH (1) PC. OF 3 1/2" x 20 GA. TRACK  
AROUND STUDS TO PROVIDE BLKG.
  15. 2 x 4 SHIM LOCATED BETWEEN 4 x 4 STL. POST  
AND FIRST 3 1/2" x 20 GA. STUD @ OUTSIDE OF BLDG.

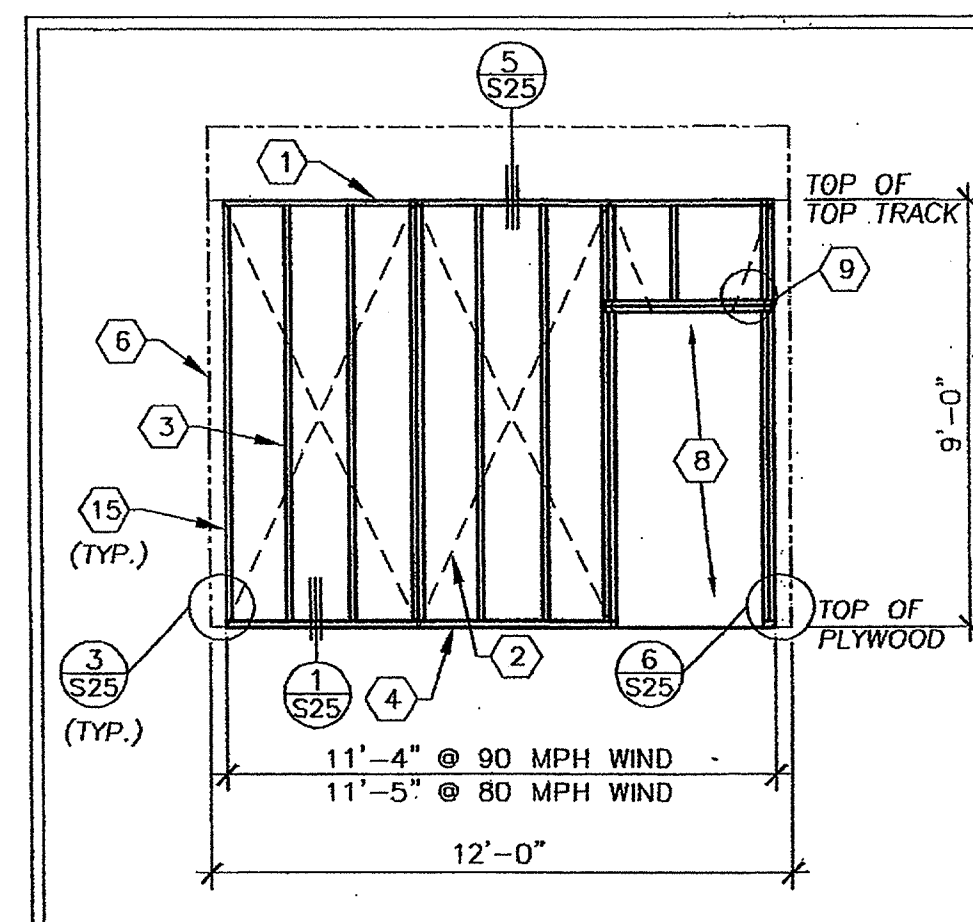
WALL FRAMING NOTES FOR STUCCO SIDING OPTION:  
STUDS TO BE 3 1/2" x 20 GA. @ 16" O.C.  
4'-0" WALL OPENINGS - (1) 3 1/2" x 20 GA. TRACK AS HEADER  
AND (2) 3 1/2" x 20 GA. FULL HEIGHT JAMB STUDS.  
8'-0" WALL OPENINGS - (2) 3 1/2" x 20 GA. TRACK AS HEADER  
AND (3) 3 1/2" x 20 GA. FULL HEIGHT JAMB STUDS.



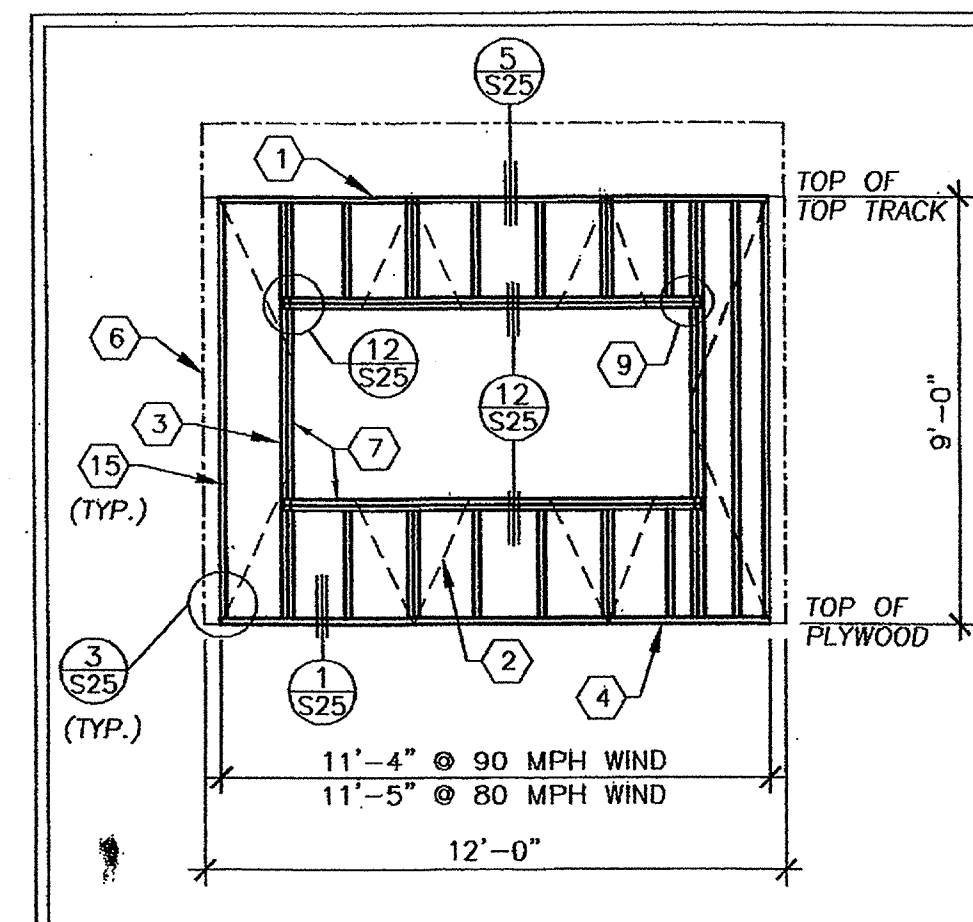
TYPICAL ENDWALLS  
SCALE: 1/4" = 1'-0"



ENDWALLS W/AC UNIT  
SCALE: 1/4" = 1'-0"



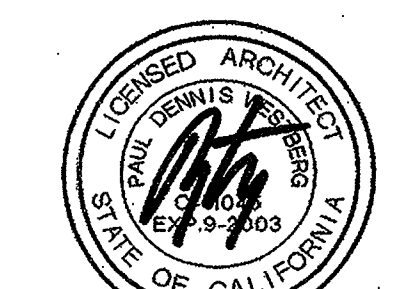
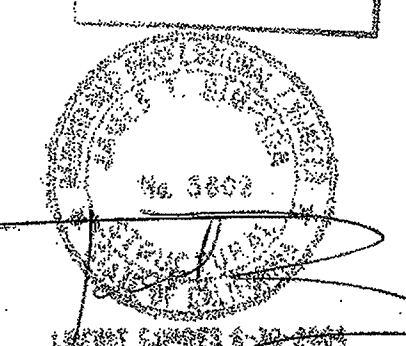
ENDWALLS W/DOOR  
SCALE: 1/4" = 1'-0"



ENDWALLS W/WINDOW  
SCALE: 1/4" = 1'-0"

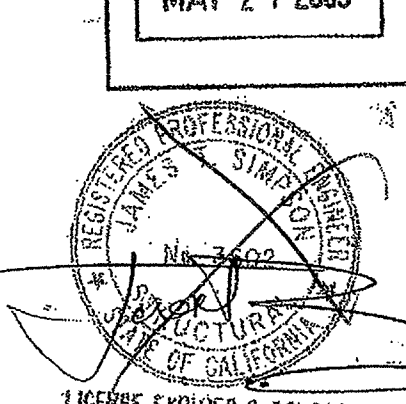
NOTE:  
FOR EXACT LOCATION  
OF DOORS, WINDOWS  
AND HVAC OPENINGS,  
SEE FLOOR PLAN.

DATE SIGNED  
JUN 04 2003



ARCHITECT STAMP

DATE SIGNED  
MAY 21 2003



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IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
AC 105425  
FLS 260  
DATE 5/30/03  
STATE AGENCY STAMP

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
4-104778  
AC 105425  
FLS 260  
DATE 5/30/03  
STATE AGENCY STAMP

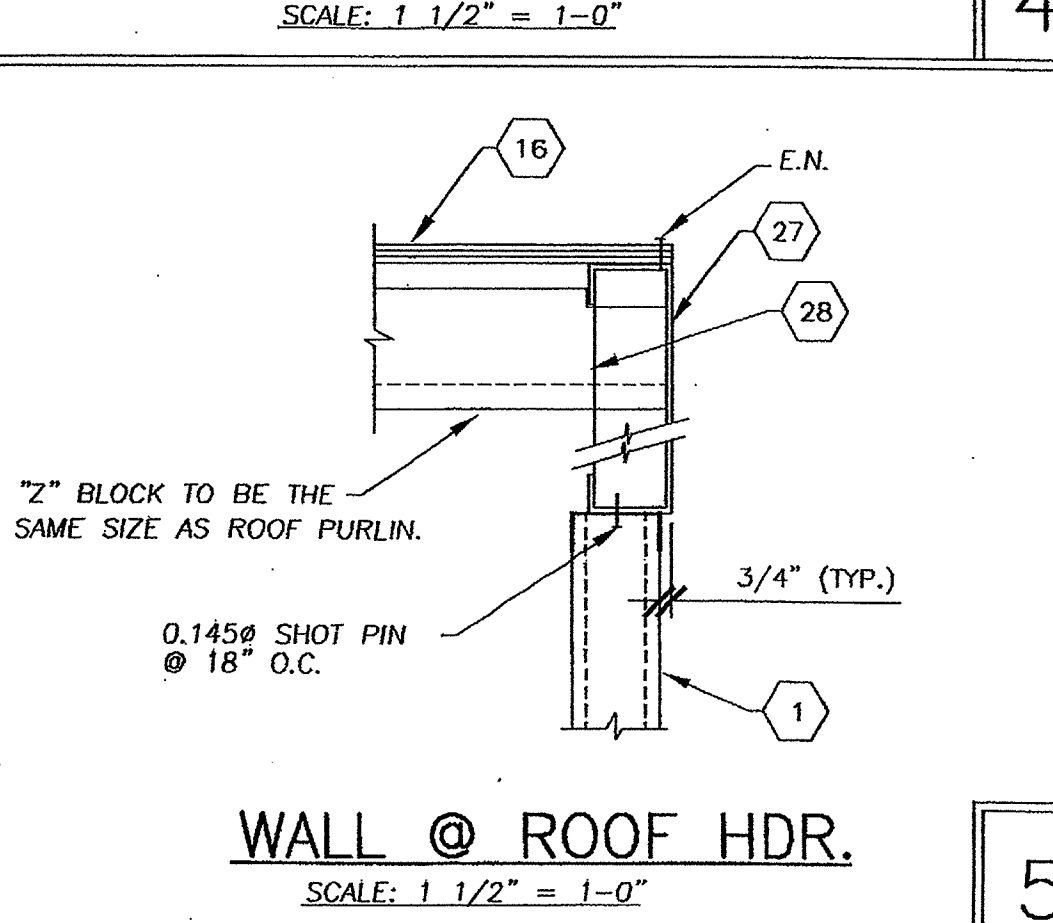
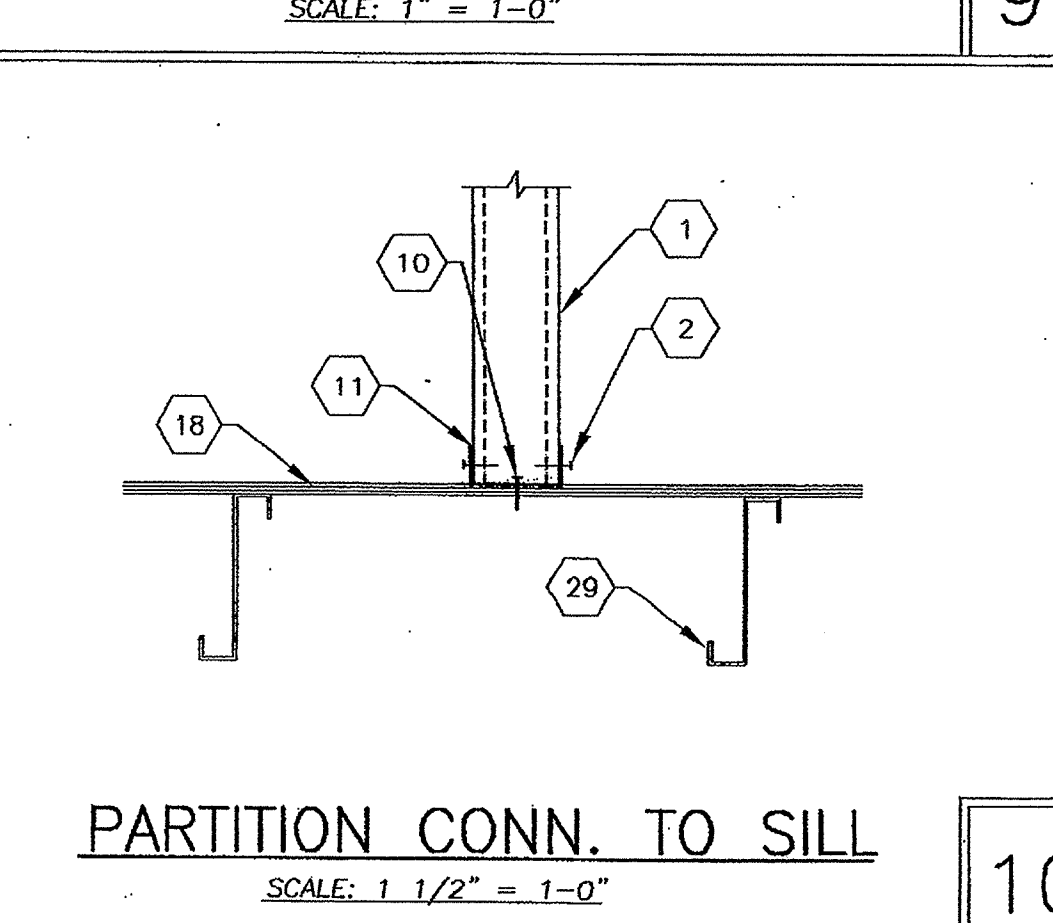
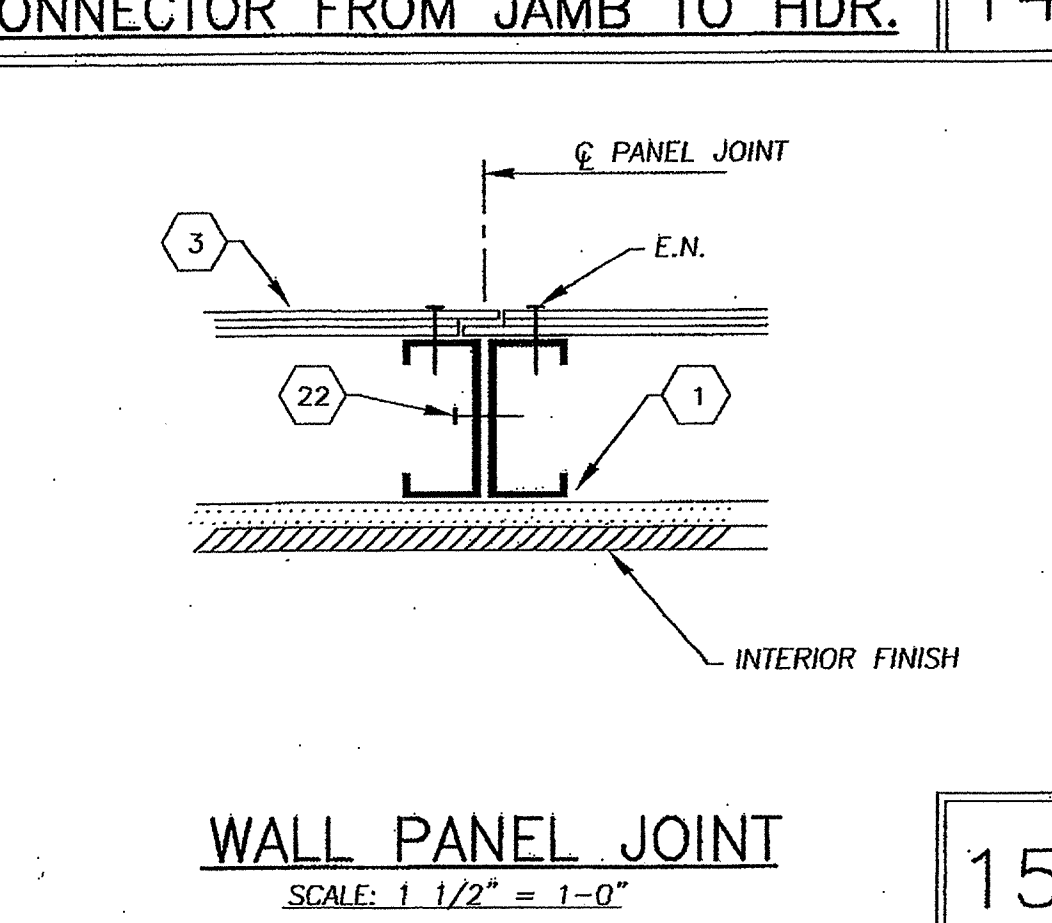
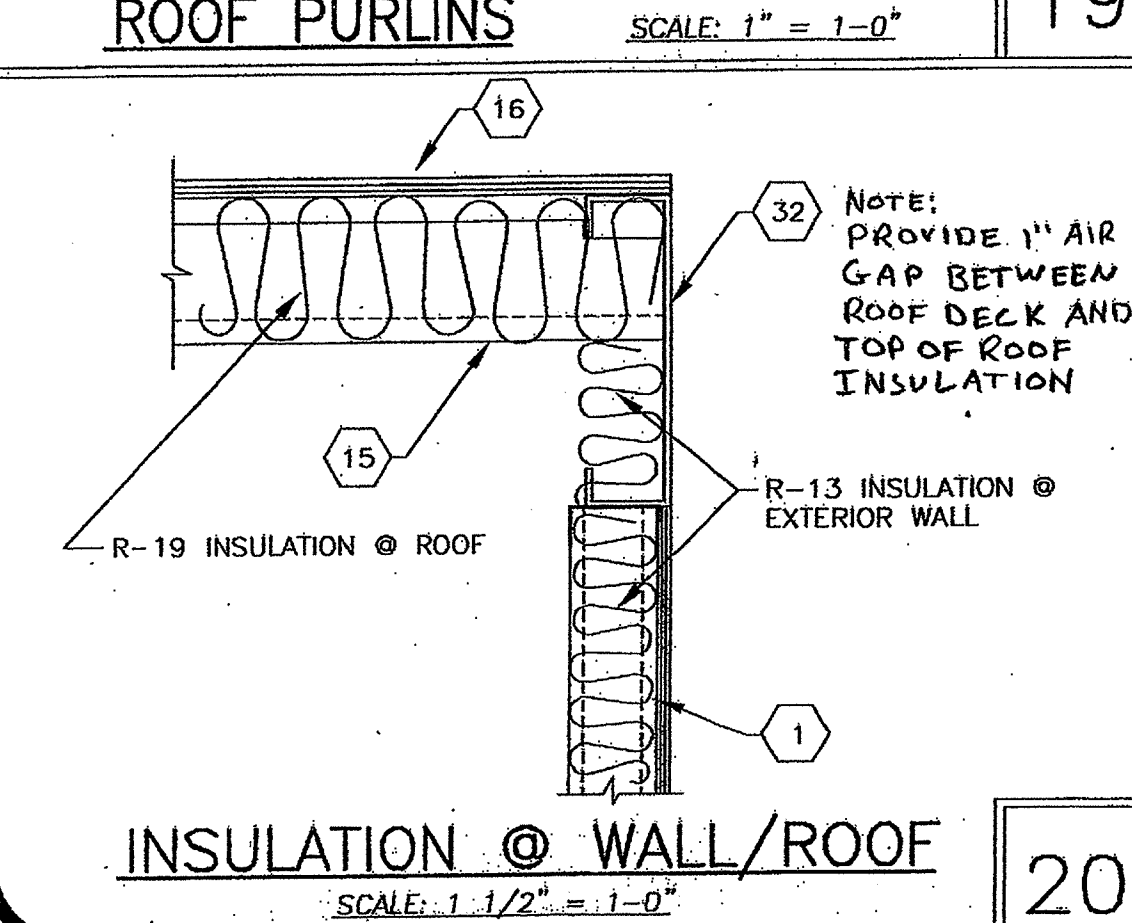
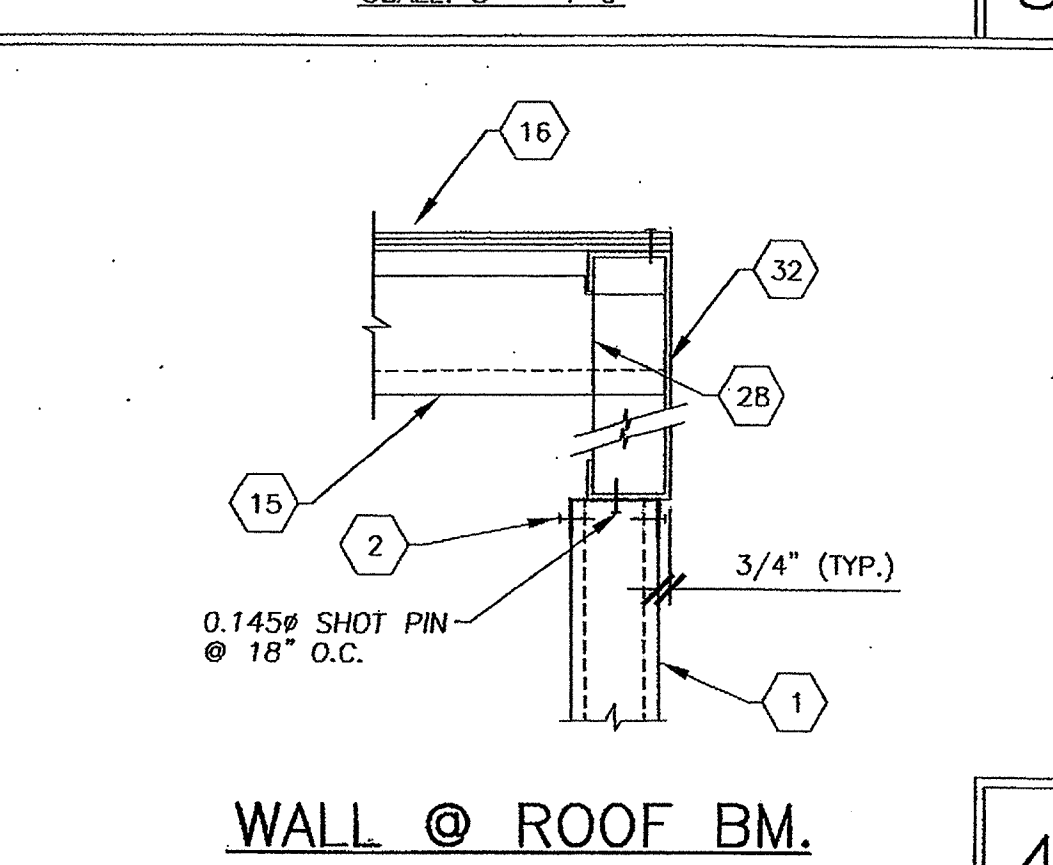
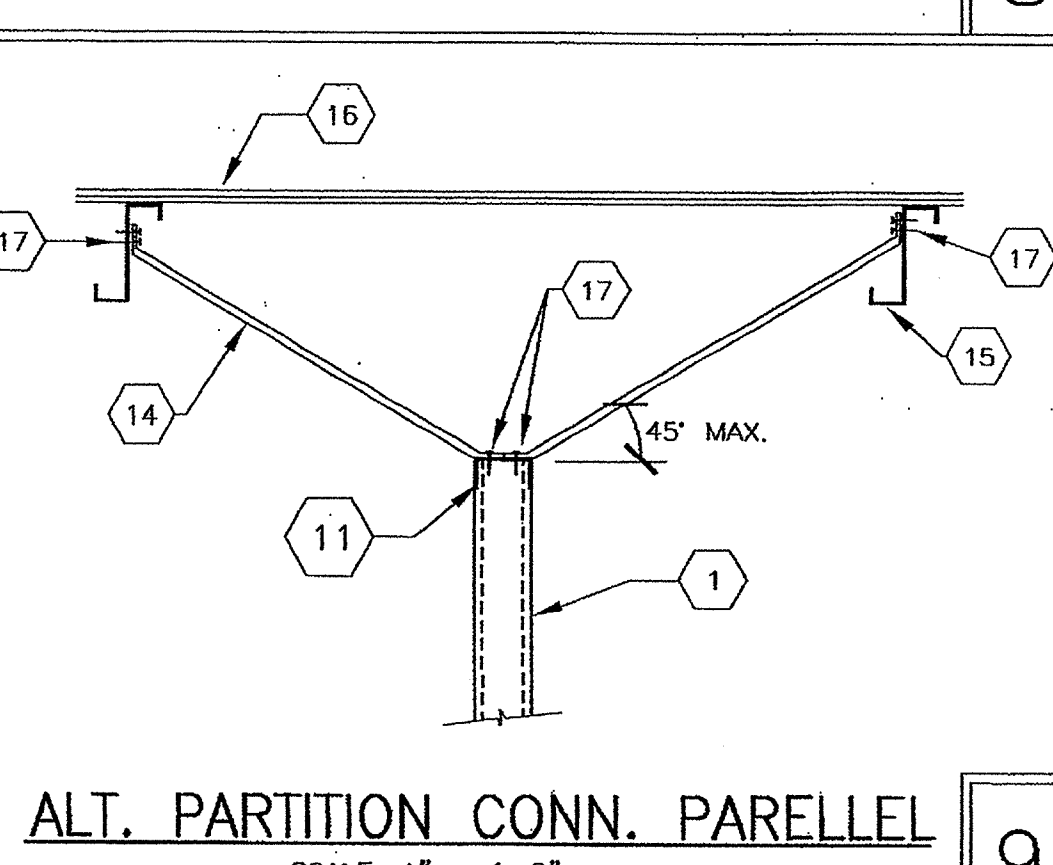
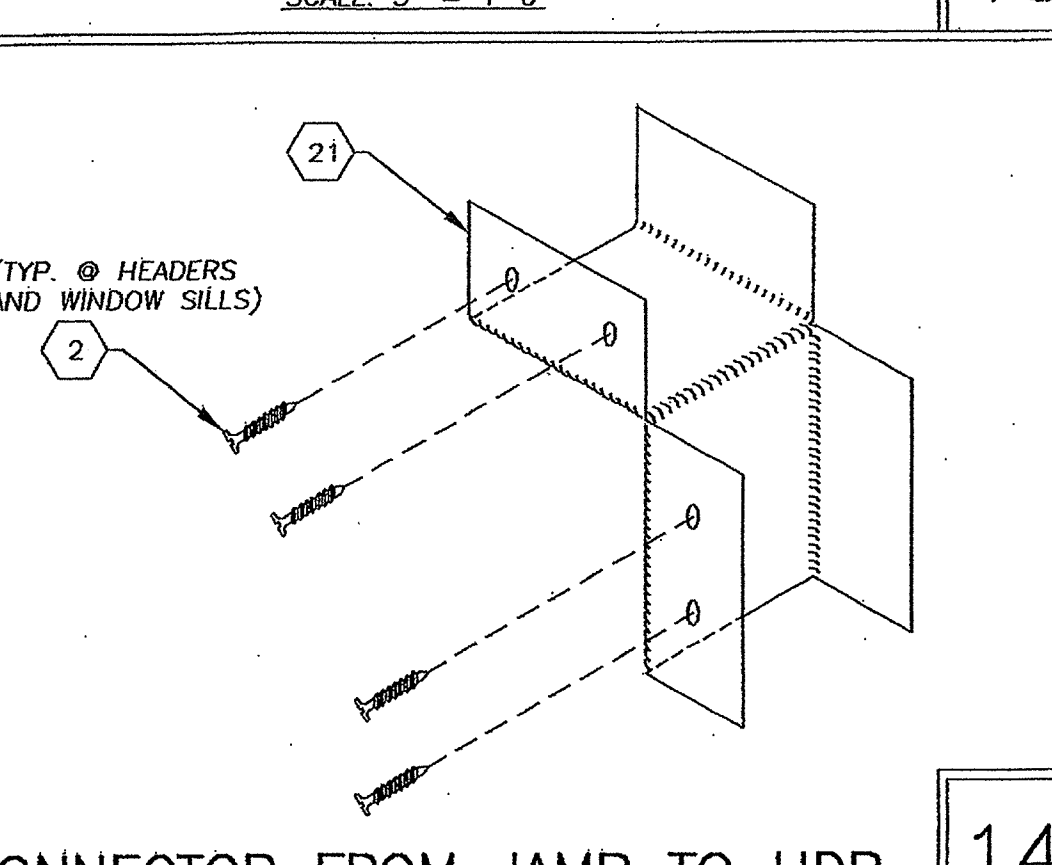
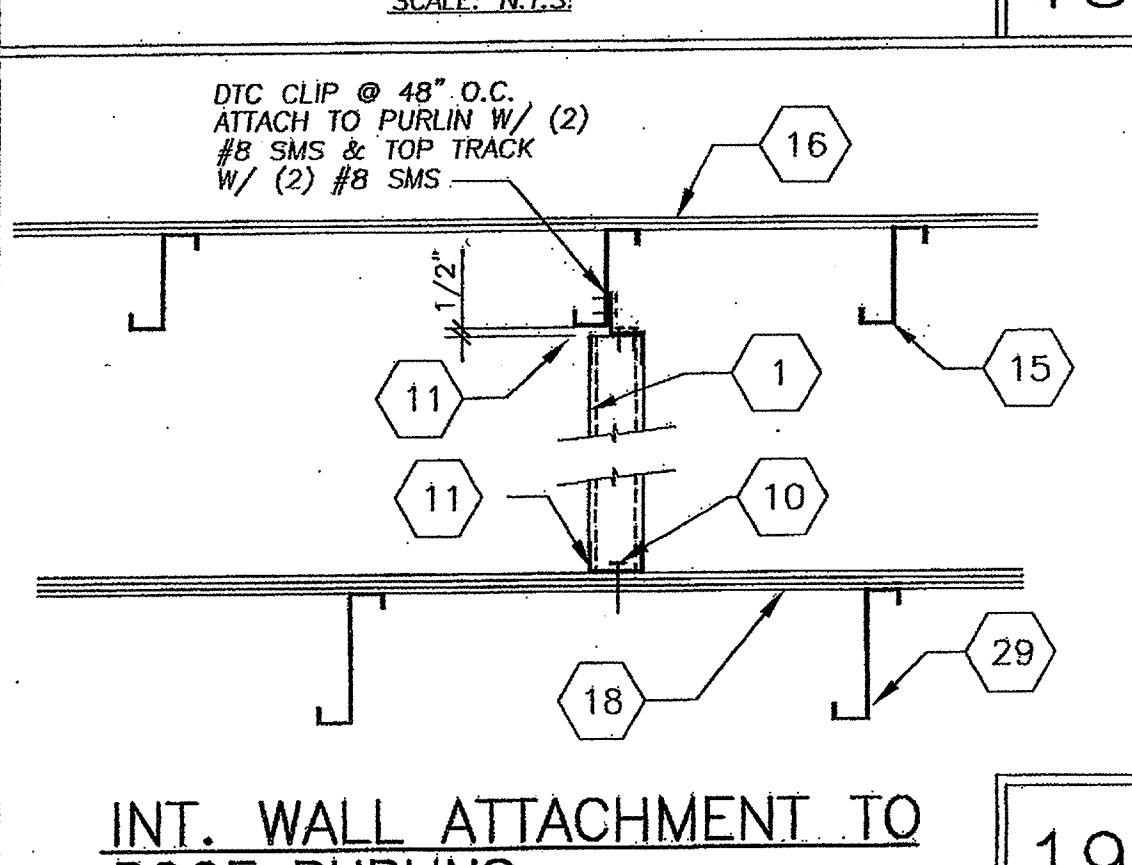
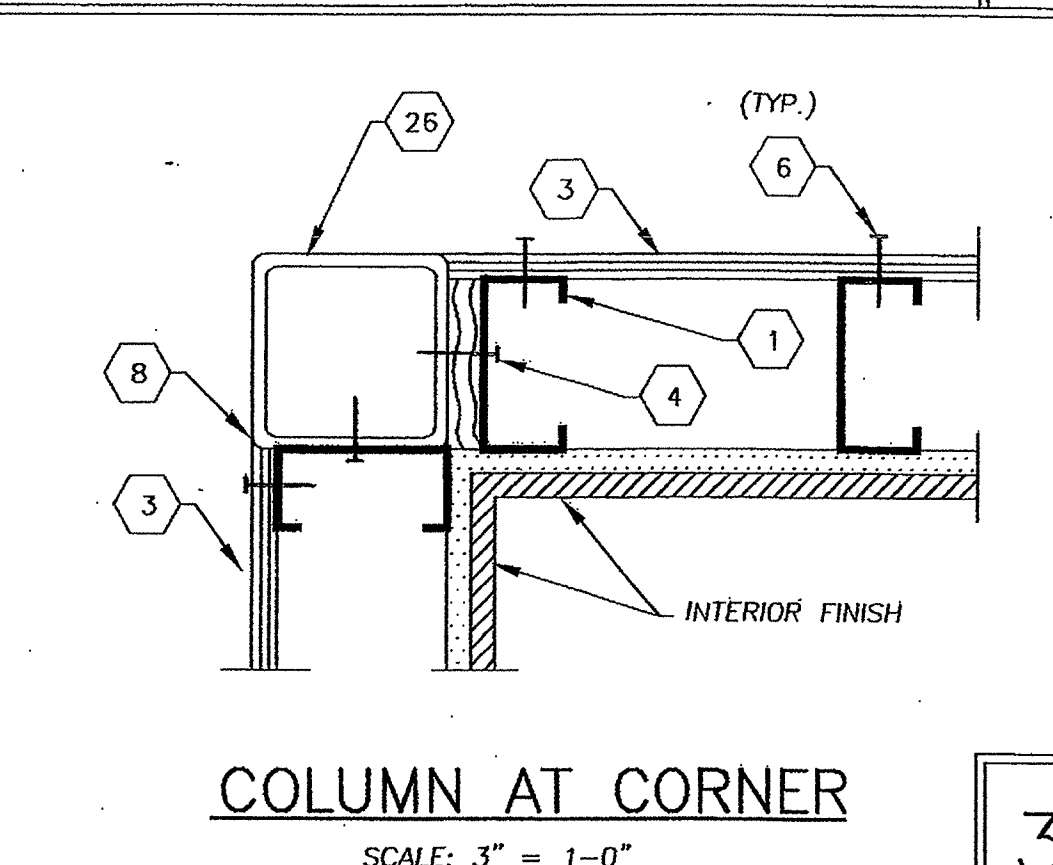
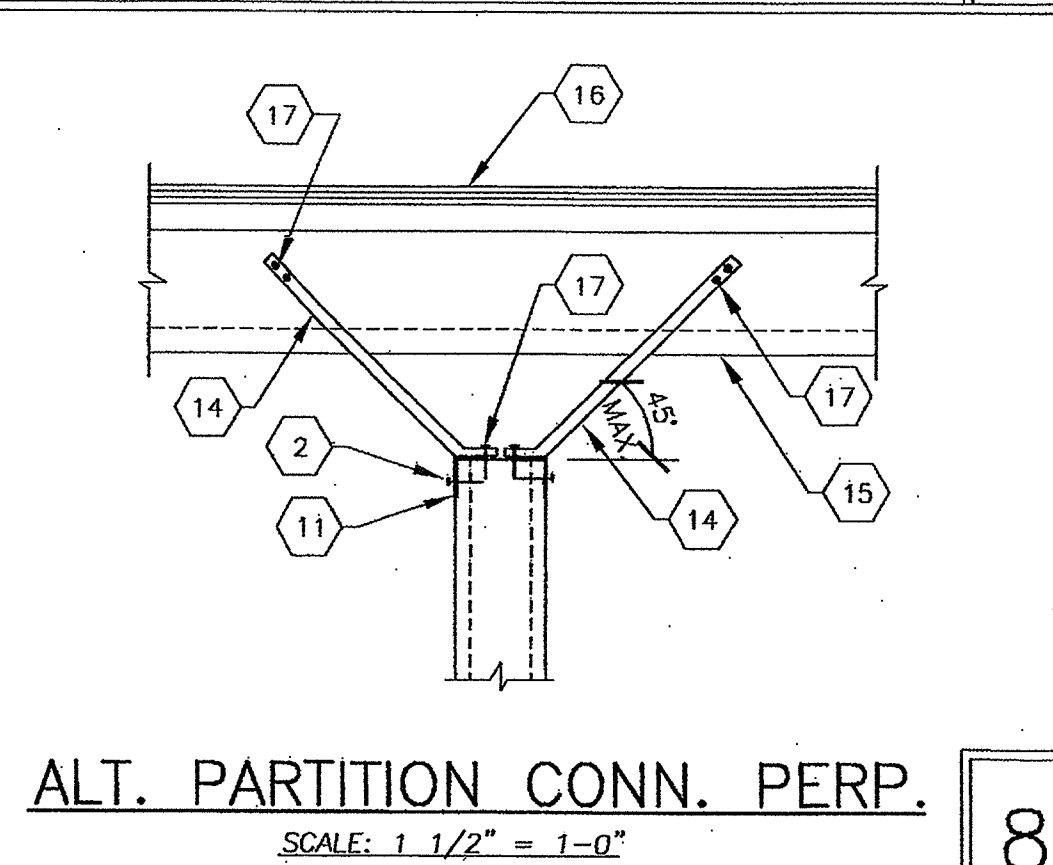
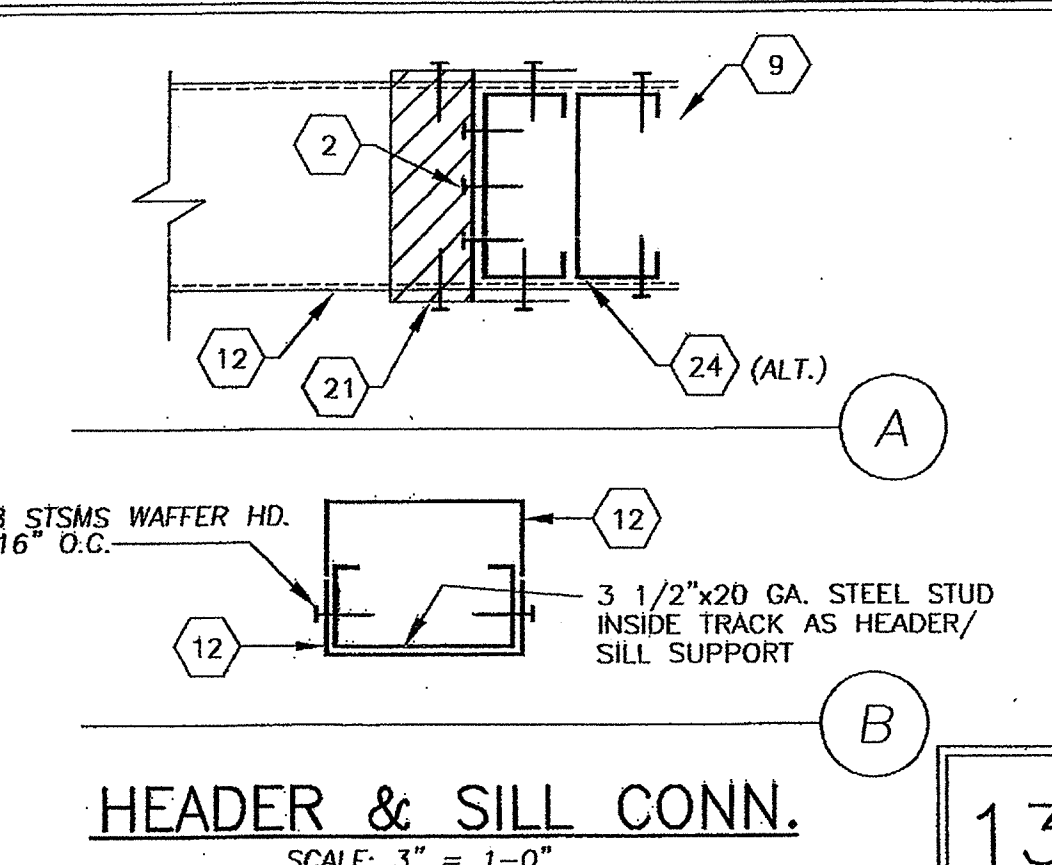
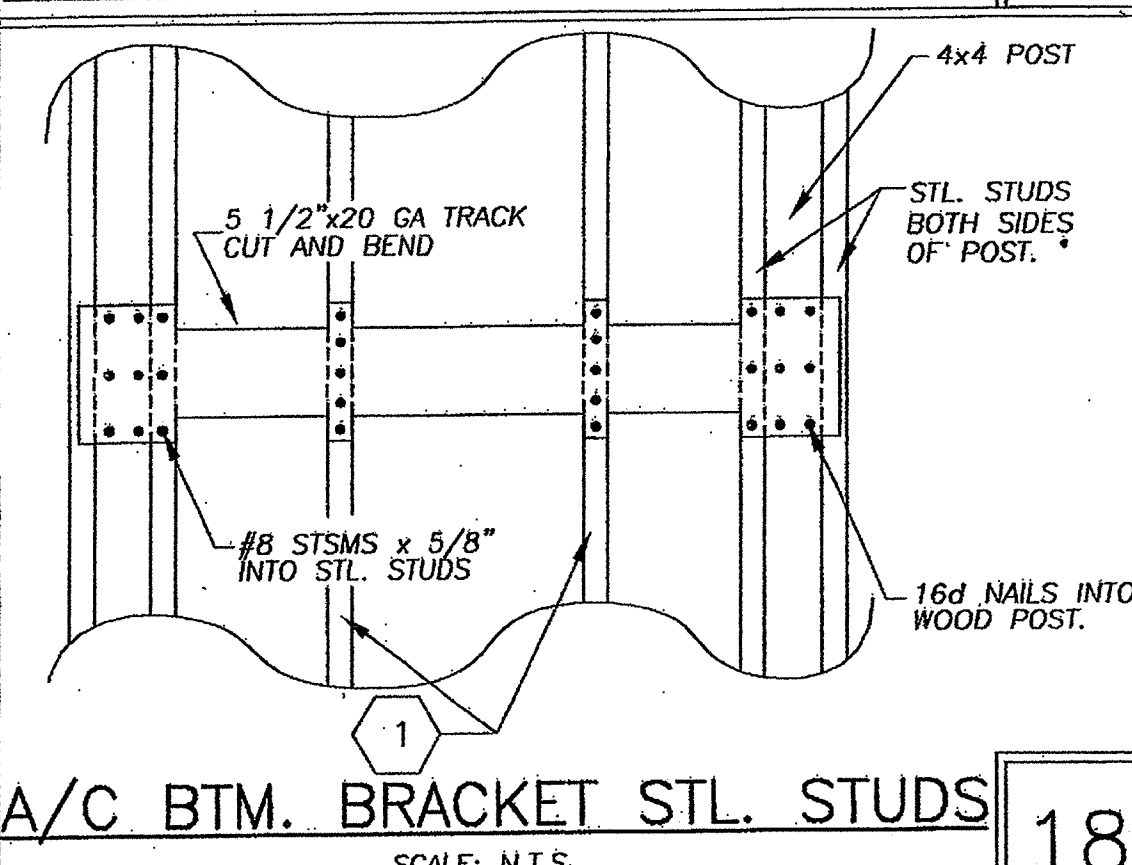
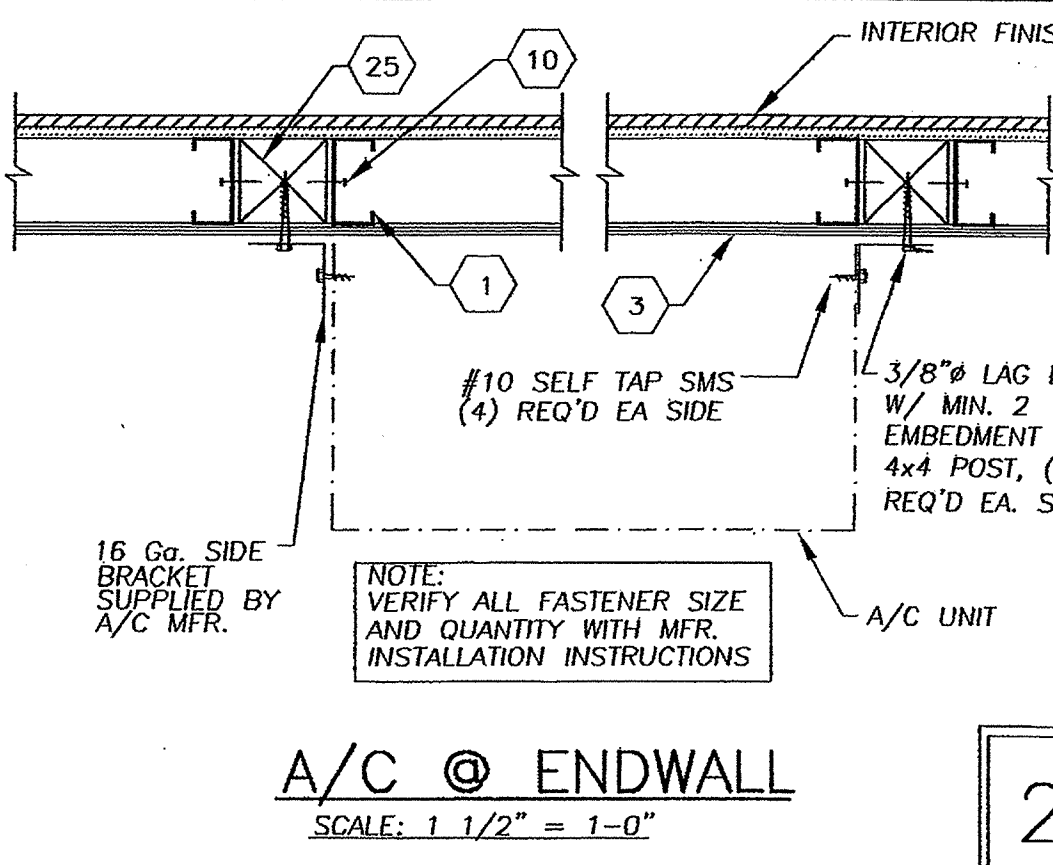
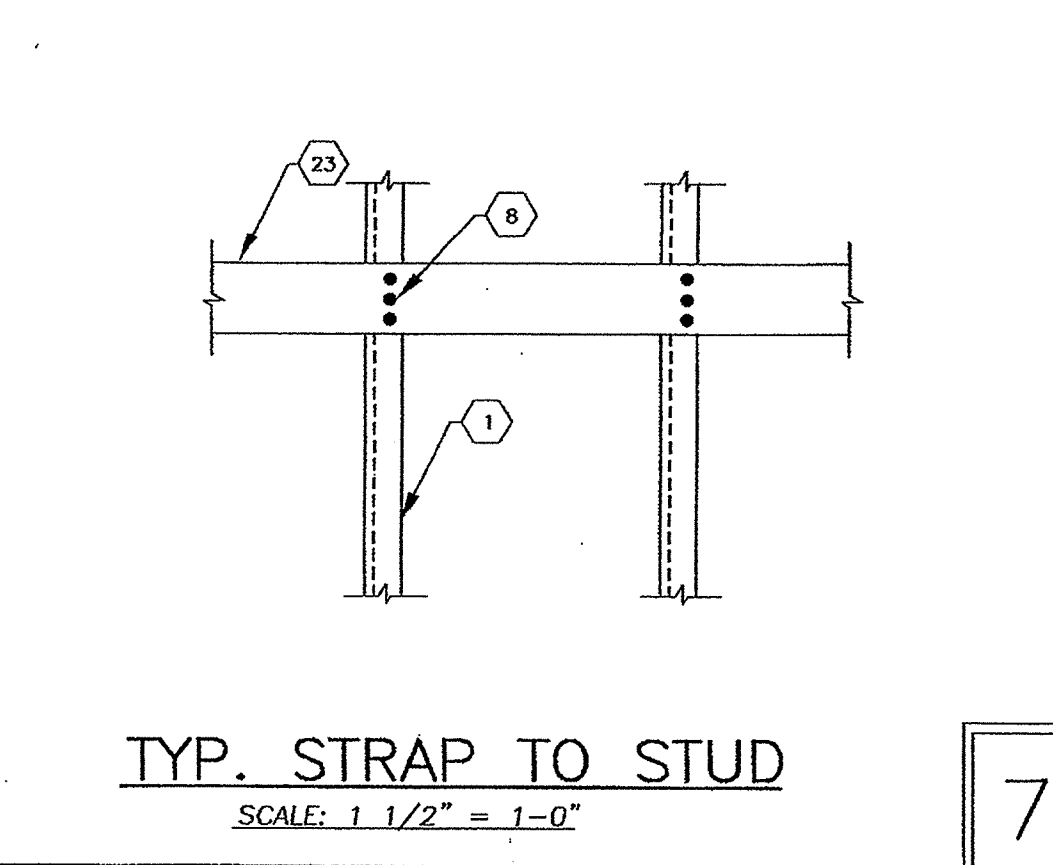
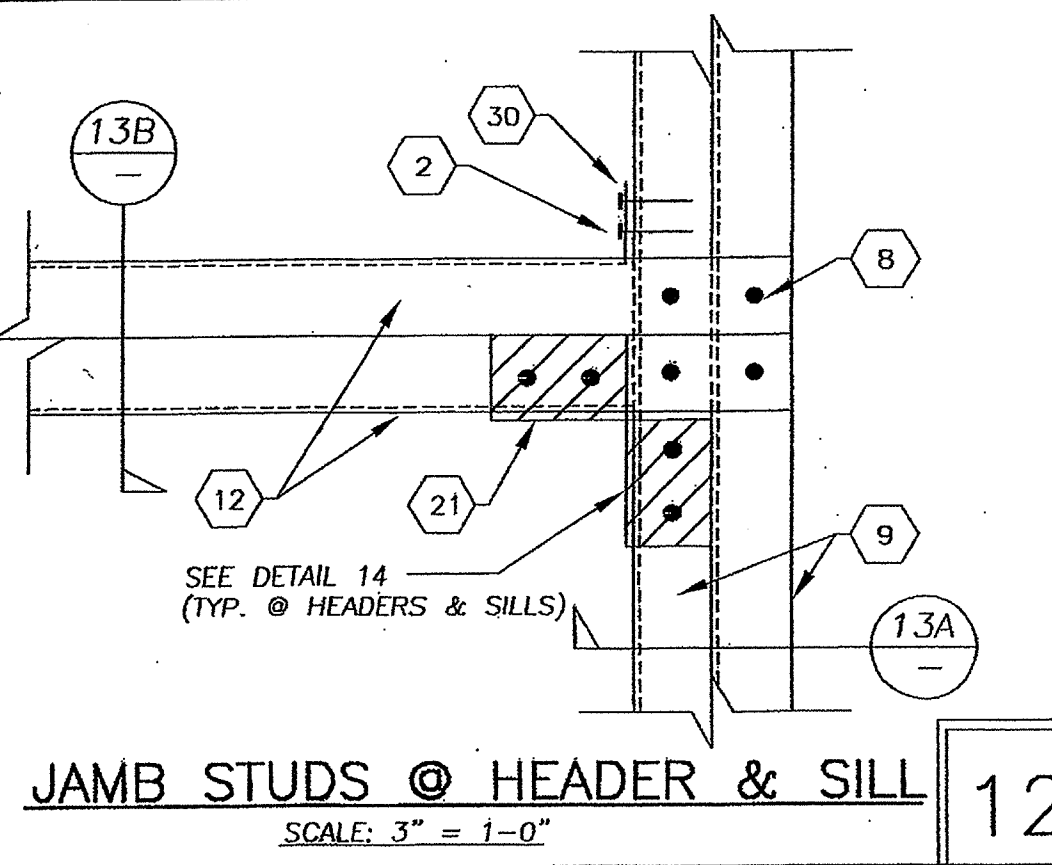
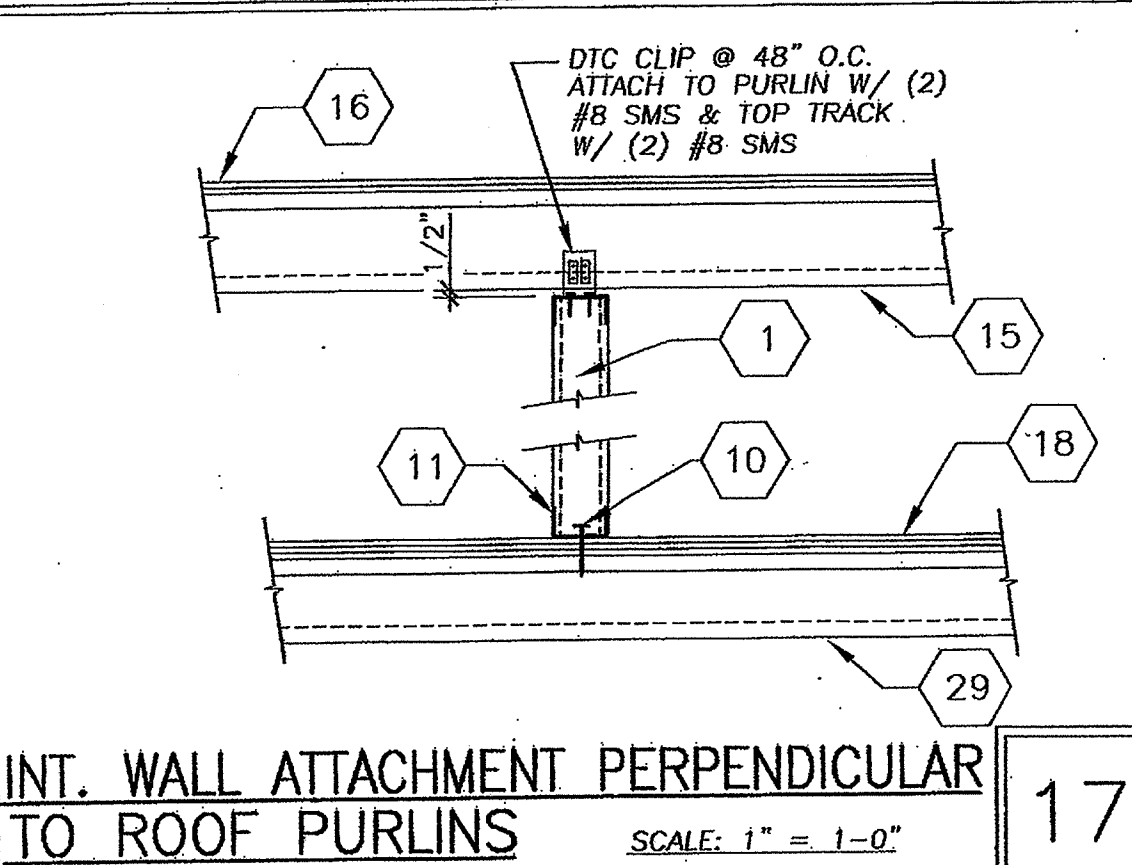
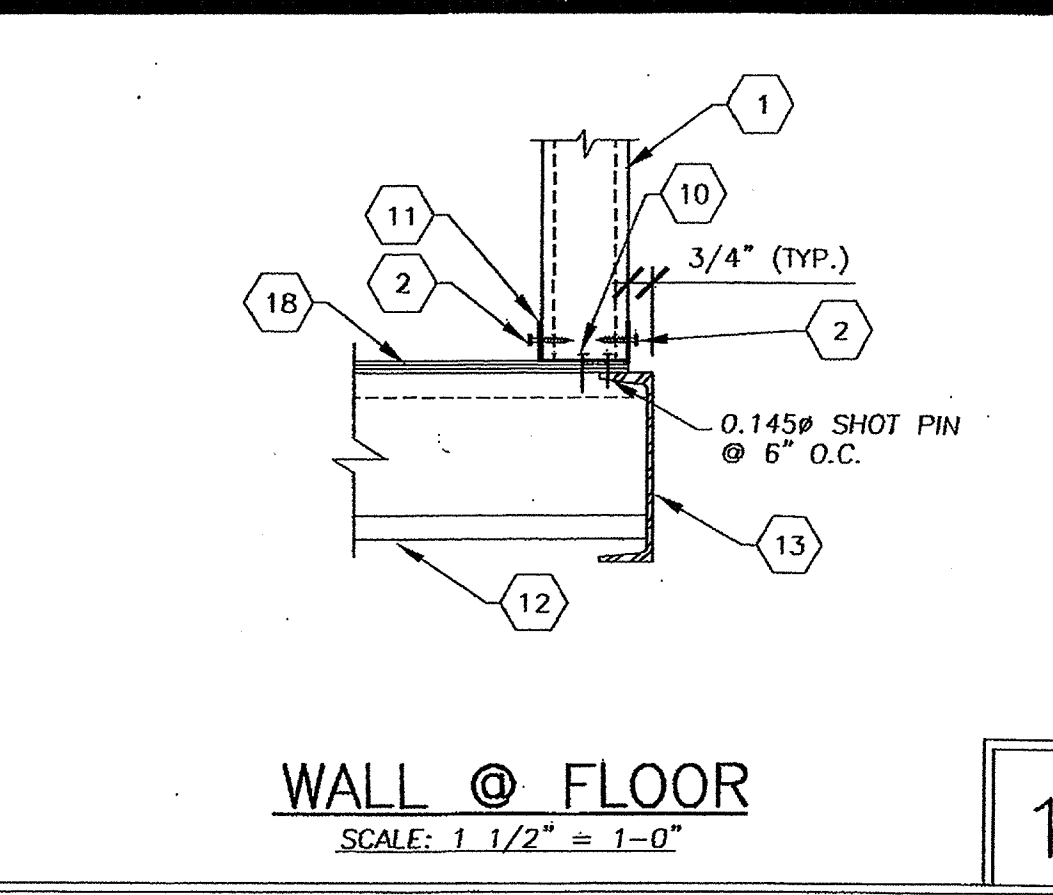
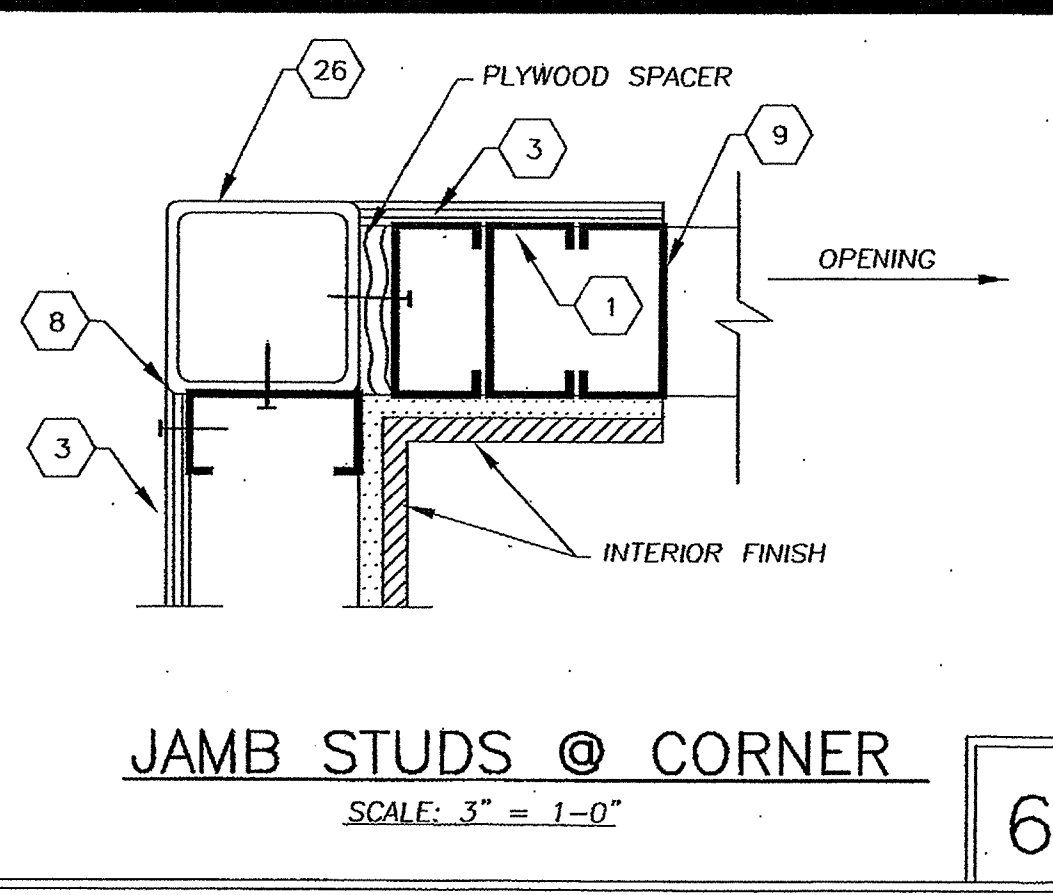
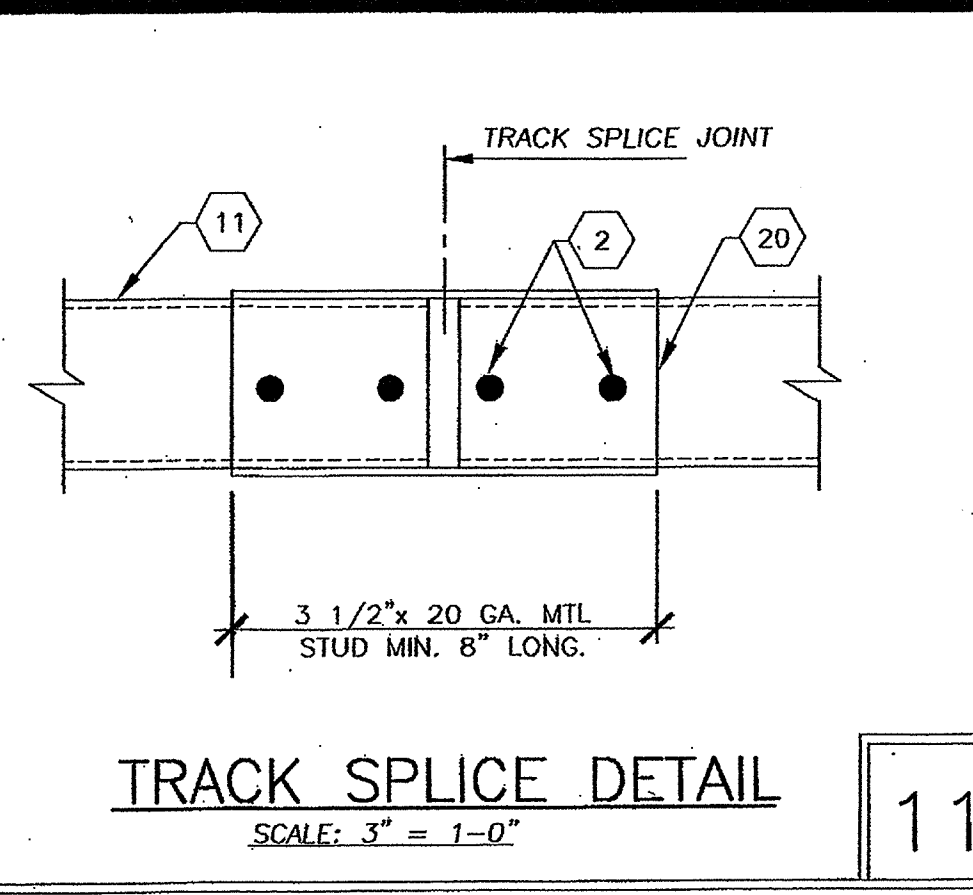
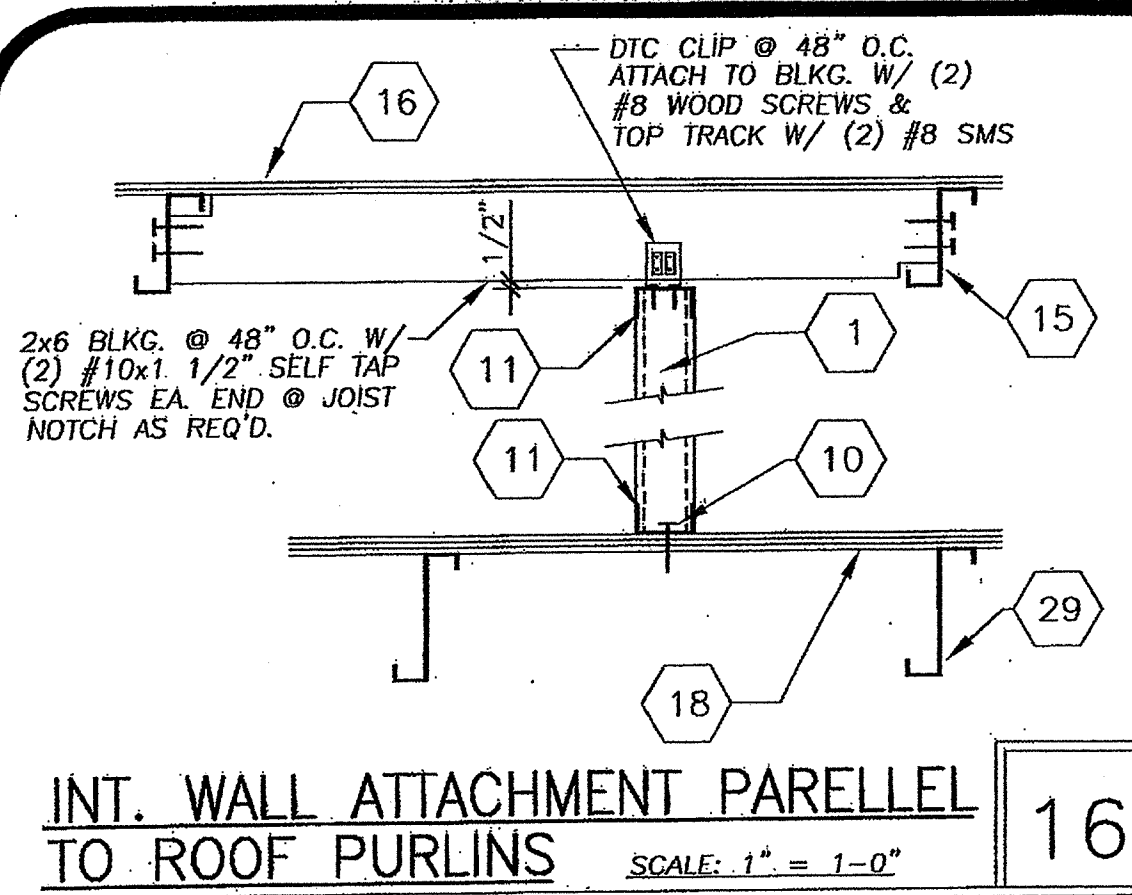
MSI  
MODULAR STRUCTURES INTERNATIONAL, INC.  
1822 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507  
PHONE: (951) 788-3025 FAX: (951) 788-1523

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PROJECT: MODULAR CLASSROOM BUILDING  
TITLE & BLDG. DATA:  
EXTERIOR WALL FRAMING ELEVATIONS  
FOR STEEL STUDS  
WIND LOAD: 80 & 90 MPH  
ROOF LOAD: 20 & 30 PSF  
FLOOR LOAD: 80, 50+20, 100 & 125 PSF

JOB #  
DATE 12/1/02  
DRAWN BY JAG  
SCALE 1/4" = 1'-0"  
APPROVED  
REVISIONS  
SHEET NO.  
S-21

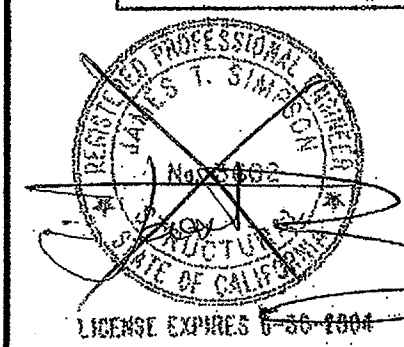
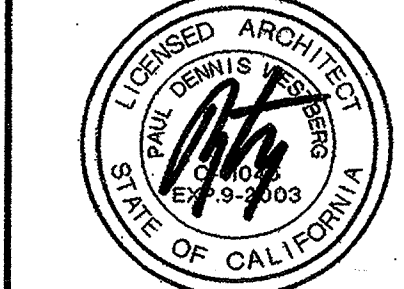
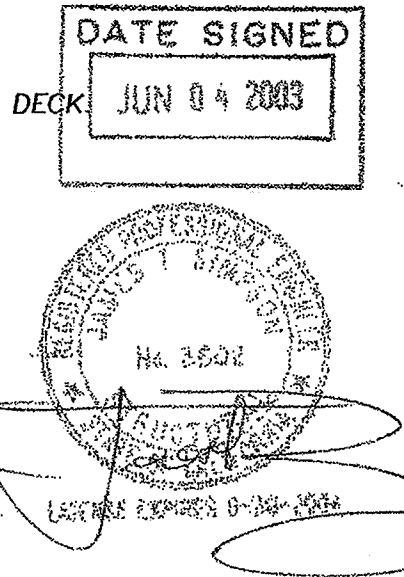




- NOTES:
- A. EXTERIOR PLYWOOD ATTACHED TO STUDS W/ CORROSION RESISTANT SCREWS.
  - B. PROVIDE MOISTURE BARRIER BEHIND SIDING. USE ASPHALT SATURATED KRAFT, TYPE-1, GRADE 'D', STYLE-2 OR EQUAL ICBO NO. 4369

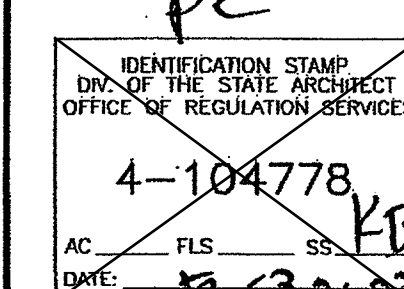
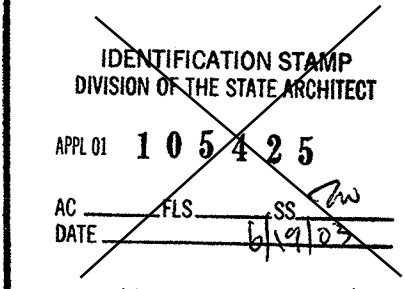
### KEYNOTES

- 3 1/2" x 20 GA. METAL STUD AT 16" O.C. MAX.
- #8 STMS WAFER HD. @ EA. STUD
- EXTERIOR FINISH (SEE FINISH SCHEDULE).
- AEROSMITH AKN 0.145" SHOT PIN, OR #10 SMS @ 24" MAX.
- GALV METAL FLASHING
- #8 STMS FN AT 12" O.C. MAX.
- HEADER (SEE OPENING SCHEDULE) COPE & BEND WEB FOR ATTACHMENT TO JAMB STUDS.
- PAINTABLE ACRYLIC LATEX SEALANT (U.N.O.)
- JAMB STUD (SEE OPENING SCHEDULE FOR TYPE AND QUANTITY)
- 16d BOX NAIL @ 8" O.C. OR #10-24x 1 3/4" W.S. SILL TRACK TO PLYWOOD FLOOR
- 3 1/2" x 20 GA. TRACK.
- 3 1/2" x 20 GA. TRACK AS HEADER OR SILL (SEE OPENING SCHEDULE) COPE AND BEND WEB FOR ATTACHMENT TO JAMB STUDS.
- STEEL FLOOR CHANNEL.
- 1/2" STEEL CONDUIT BRACE AT 8" O.C. MAX. STAGGERED.
- ROOF PURLIN (SEE STRUCTURAL ROOF FRAME).
- PLYWOOD ROOF DECK SHOWN, NOT REQ'D @ 22 GAUGE METAL ROOF DECK.
- #10 STMS WAFER HD.
- PLYWOOD SUB FLOOR.
- 16d AT 8" O.C. MAX.
- 3 1/2" x 20 GA. METAL TRACK USED FOR SPLICE.
- 20 GA. JAMB CLIP. (SEE DETAIL #14)
- #6 STMS AT 24" O.C. MAX.
- 20 GA. STRAP WIDTH MAY VARY, USED AS BACKING FOR CABINETS.
- ALTERNATE WELDING 1" AT 18" O.C. IS AN ACCEPTABLE ALTERNATE TO BOXING AND SCREWING.
- 4x4 DF #2 POST TO SUPPORT A/C UNIT.
- STEEL TUBE COLUMN.
- ROOF HEADER.
- 1/4" FULL HGT. STIFFENER.
- FLOOR JOIST @ 32" O.C. MIN. FOR PARTITION LOAD
- BEND UP FLANGE OF 20 GA. TRACK AND SECURE TO JAMB STUD W/ #8 STMS WAFER HEAD SCREWS.
- NOT USED.
- ROOF BEAM.



OPENING SCHEDULE			
OPENING	HEADER	SILL	JAMB
3068/4068	(1) 3 1/2"x20 GA. T.	(1) 3 1/2"x20 GA. T.	(2) 3 1/2"x20 GA. S.
8040	(1) 3 1/2"x16 GA. T.	(1) 3 1/2"x16 GA. T.	(2) 3 1/2"x20 GA. S.

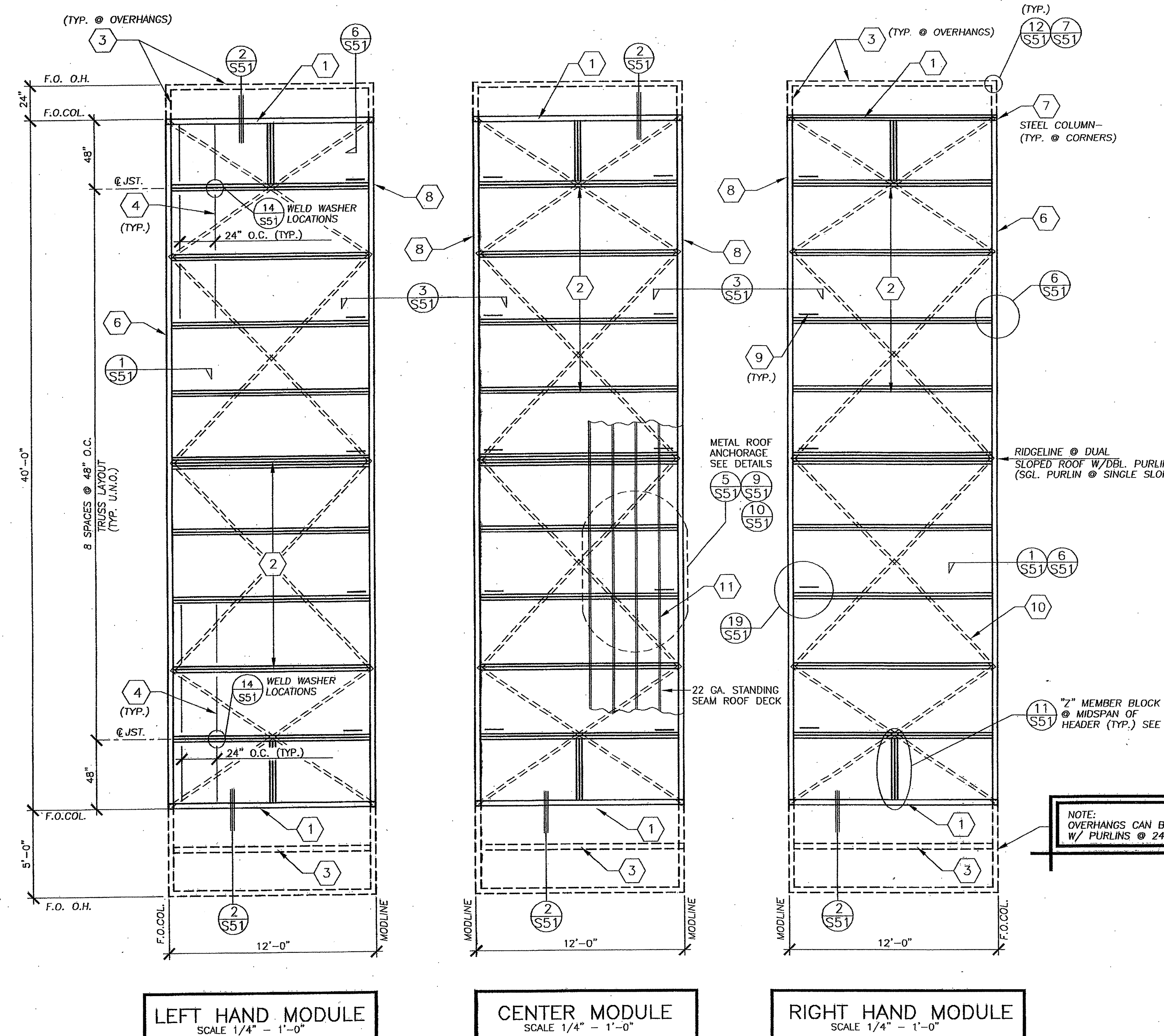
NOTE:  
T. = TRACK  
S. = STUD



PROJECT: MODULAR CLASSROOM BUILDING  
TITLE & BLDG. DATA: STEEL STUD WALL FRAMING DETAILS  
WIND LOAD: 80 & 90 MPH  
ROOF LOAD: 20 & 30 PSF  
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #  
DATE 12-1-02  
DRAWN BY JAG  
SCALE AS NOTED  
APPROVED  
REVISIONS  
SHEET NO. S-25



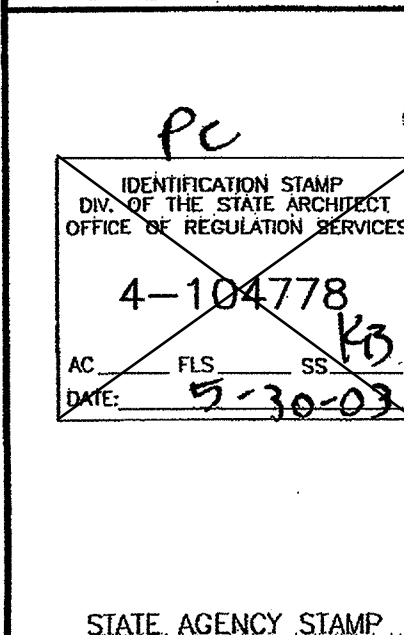
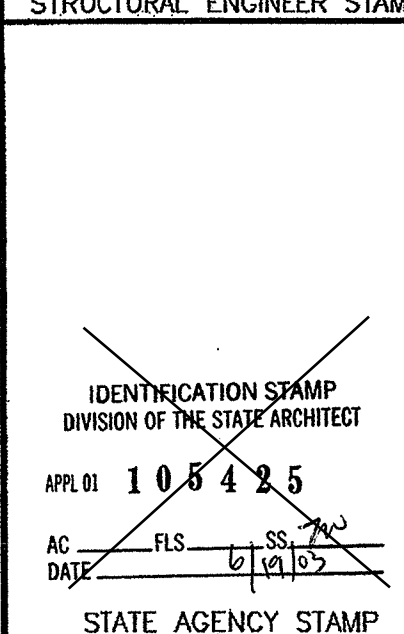
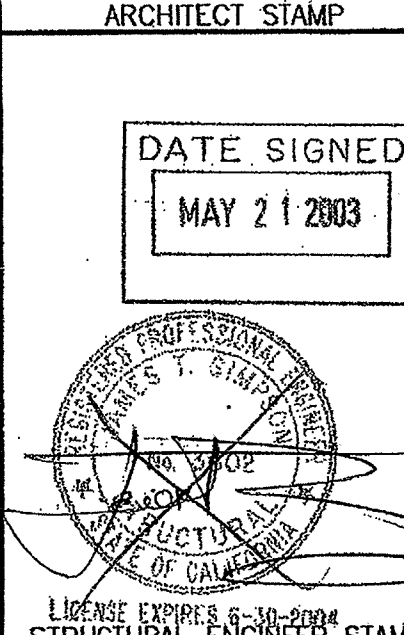
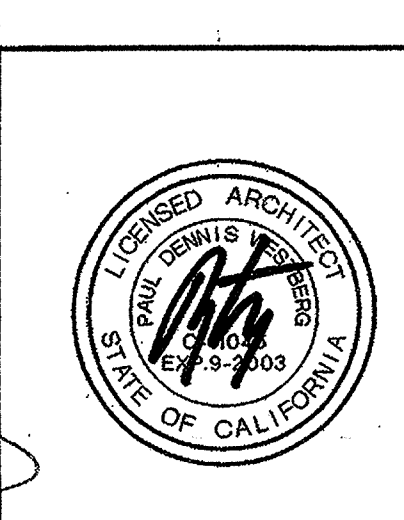
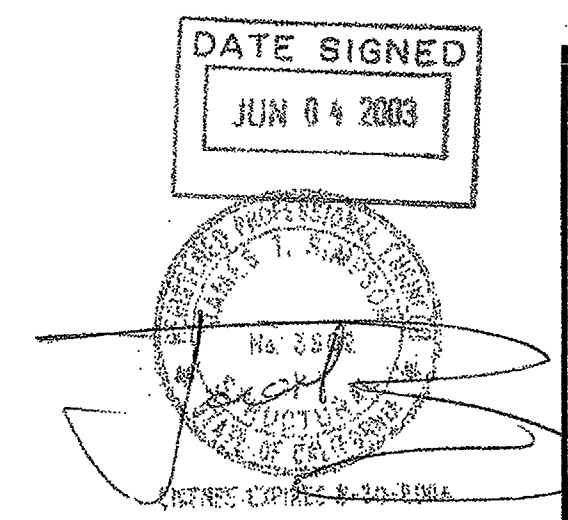
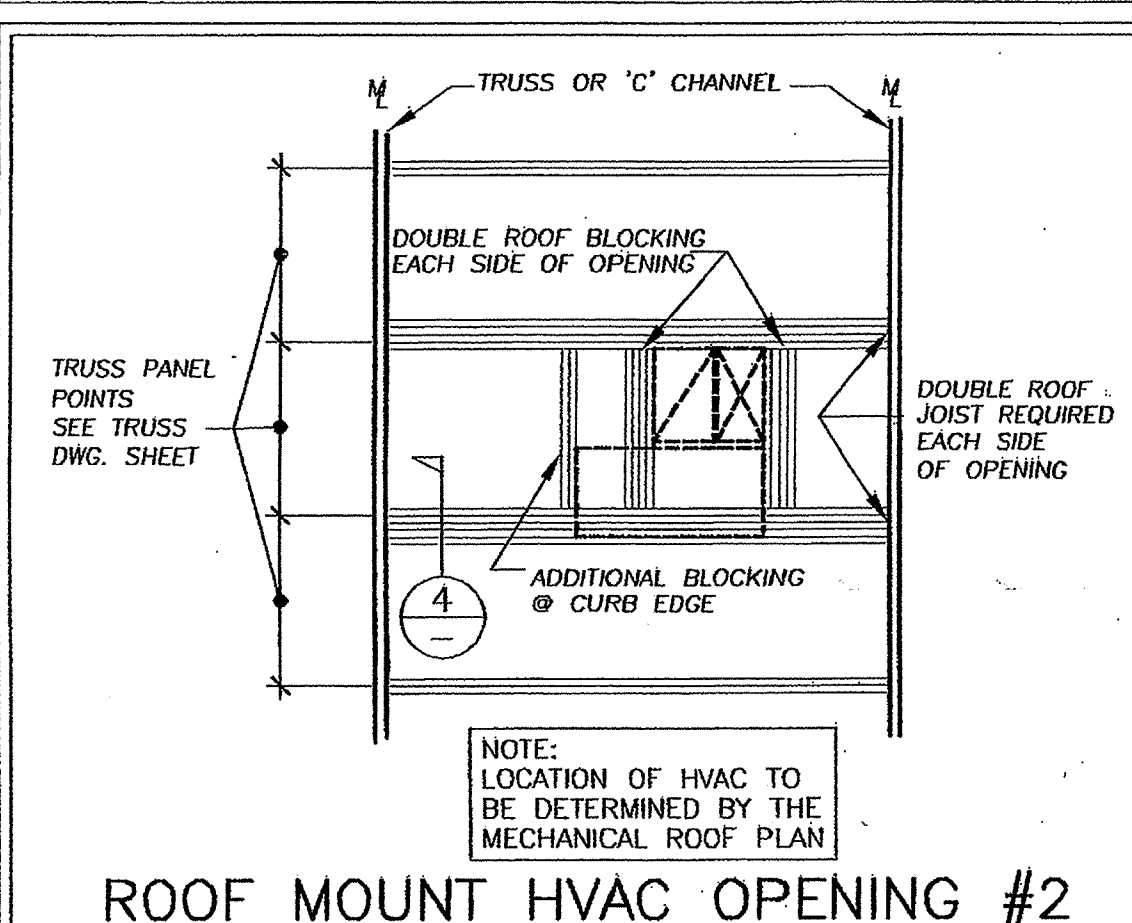
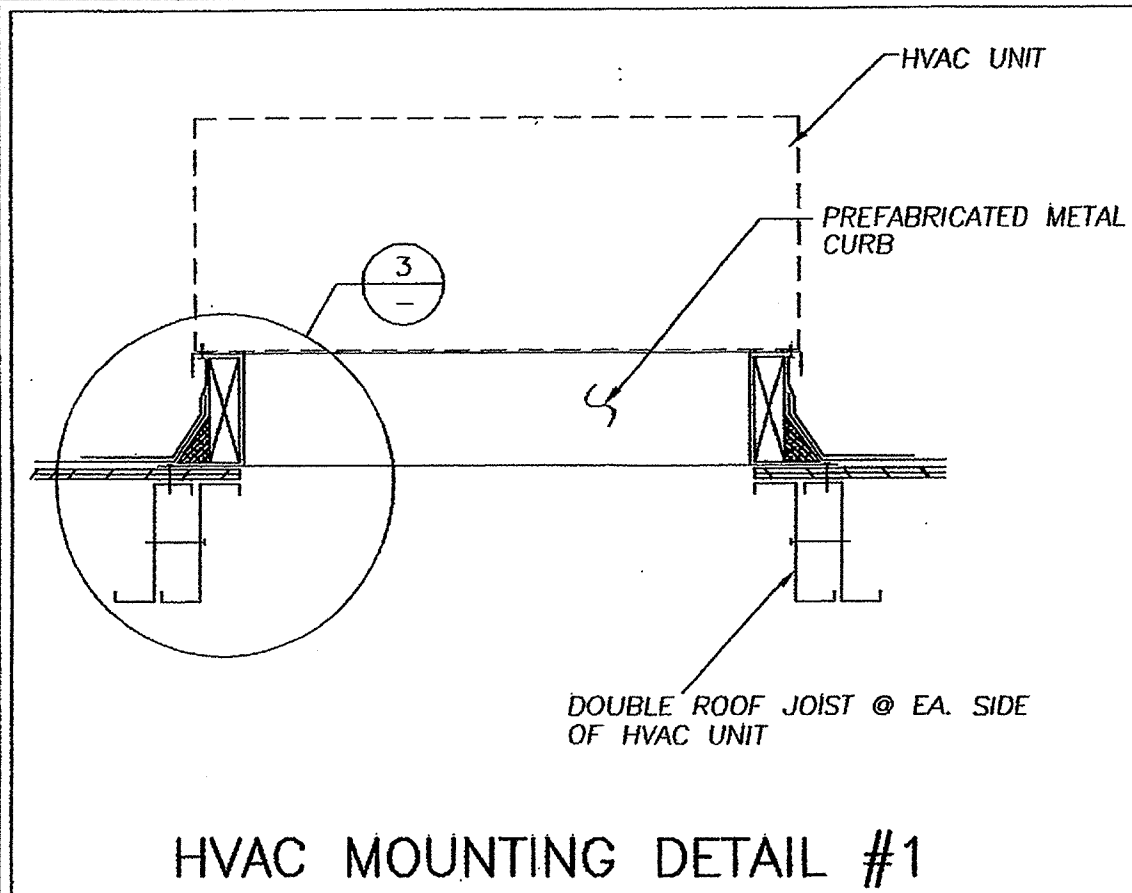
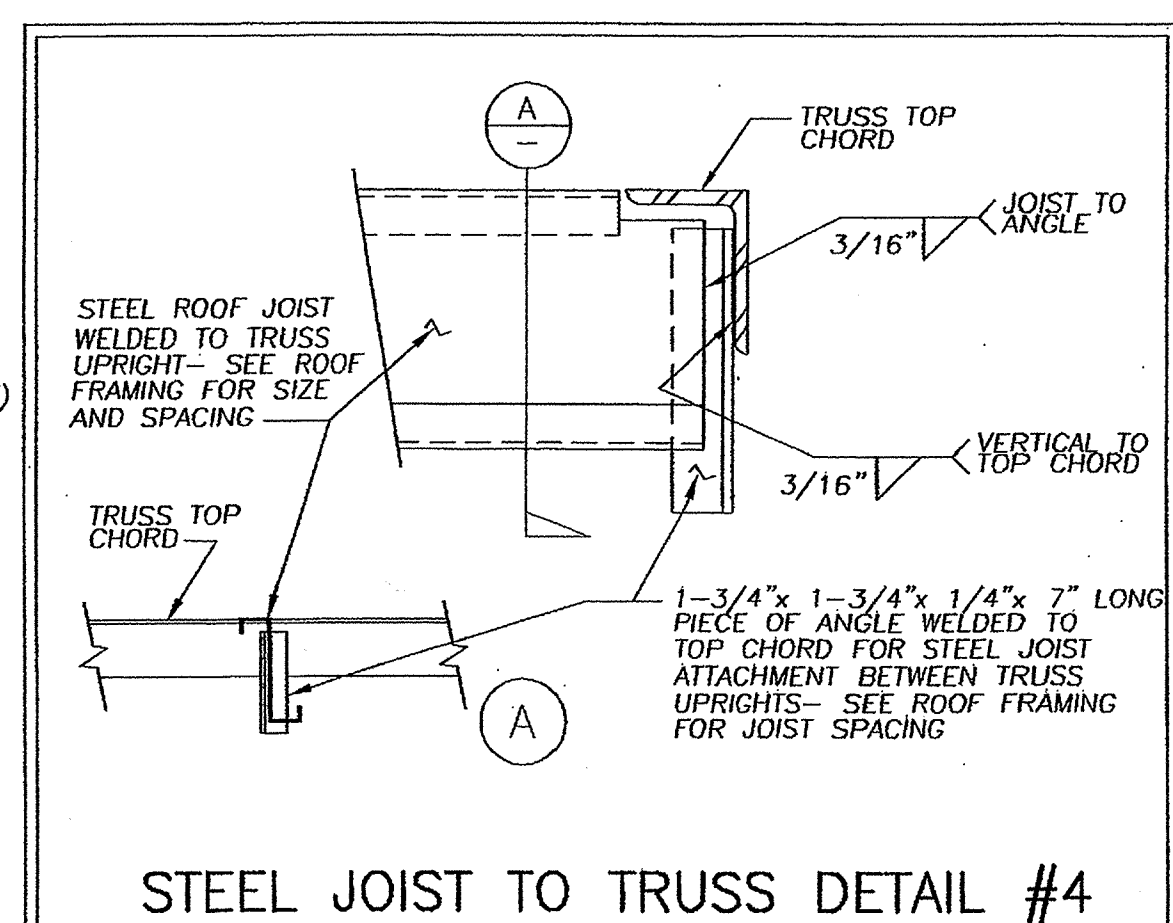
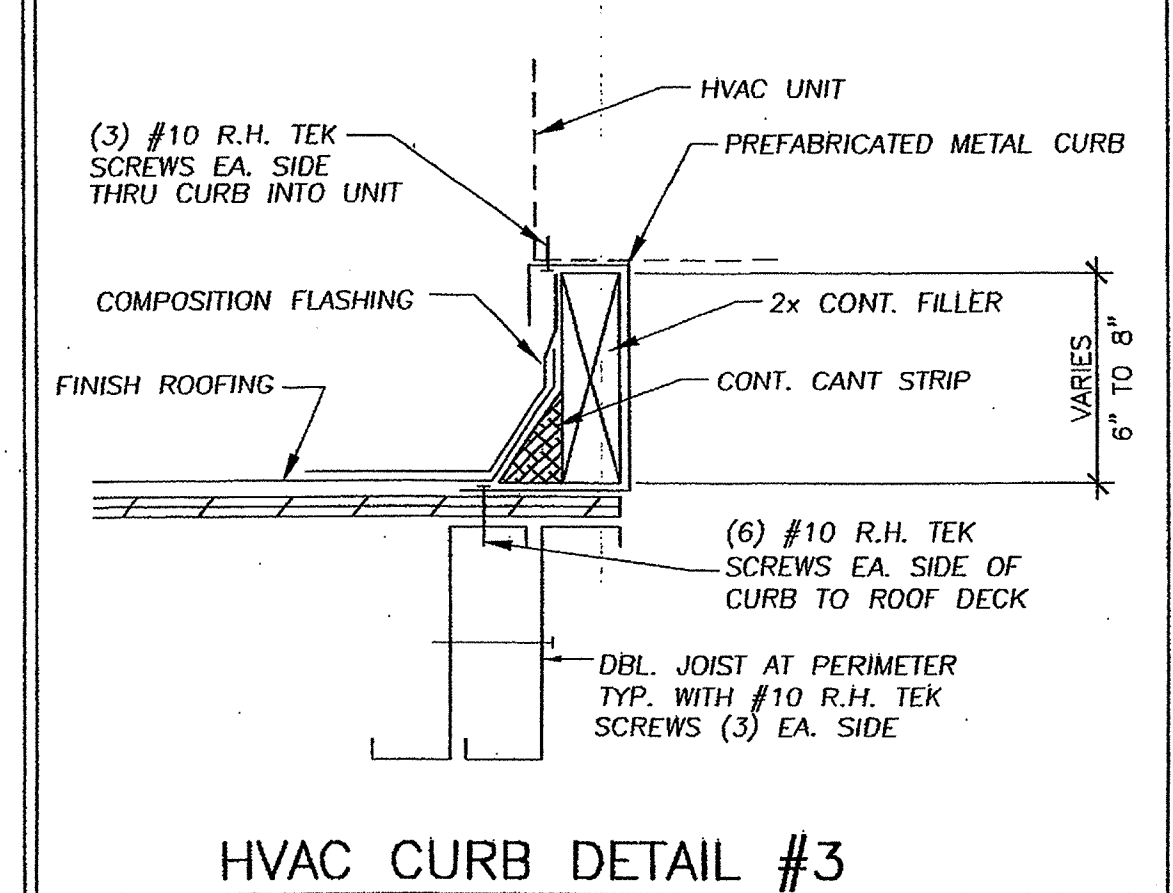
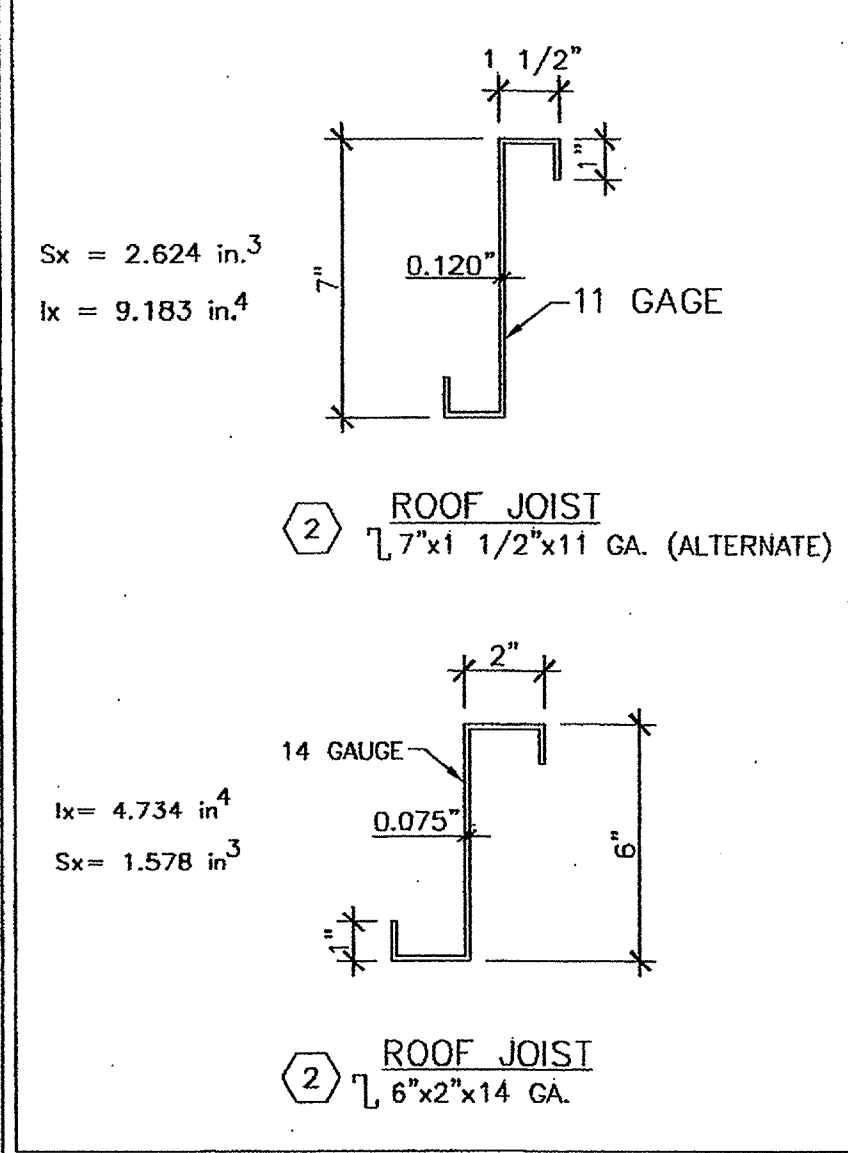


ROOF FRAMING PLAN METAL ROOF OPTION  
SCALE 1/4" = 1'-0"

KEY NOTES

1. 18"x3 1/2" x 12 GA. RFC STEEL ROOF HEADER.
2. 1. 6" x 2 x 14 GA. STEEL ROOF JOIST @ 48" O.C. FOR 20 PSF ROOF OR 7 x 1 1/2 x 11 GA. @ 48" O.C. FOR 30 PSF ROOF.
3. 10"x12 GA. CHANNEL @ ROOF OVERHANGS. L 4"x3 3/8" PURLIN & OUTRIGGER AT 20 PSF ROOF OR L 5"x3 3/8" OUTRIGGER & L 4"x3 3/8" PURLIN AT 30 PSF ROOF.
4. WIRE OR STRAP ATTACHED TO ROOF JOISTS FOR INSULATION SUPPORT AT 24" O.C.
5. NOT USED.
6. 18"x23 1/2"x18"x3 1/2"x10 GA. TAPERED CHANNEL SECTION BEAM AT DOUBLE SLOPE ROOF AND 18"x28"x3 1/2"x10 GA. AT SINGLE SLOPE ROOF.
7. STEEL CORNER COLUMN SEE RIGID FRAME SECTION FOR SIZE.
8. STEEL TRUSS. (SEE SHTS. S-60, S-60.1, S-70, & S-70.1)
9. STEEL TRUSS BRACES AT 8' O.C. TO BOTTOM CHORD OF TRUSSES L 1 1/2"x1 1/2"x3/16"
10. 2" x 20 GAUGE METAL STRAPS ONLY FOR 22 GA. METAL ROOF OPTION. W/ 3" MIN. OF 1/8" FILLET WELD EACH END TO ROOF BEAM OR HEADER.
11. 22 GA. STANDING SEAM ROOF DECK. SEE DETAIL #9 ON SHEET S-51 FOR ROOF PANEL SECTION.

ROOF JOIST SCHEDULE		
LOAD	PURLIN	SPACING
20 PSF	1. 6"x14 GA.	48" O.C.
30 PSF	1. 7"x11 GA.	48" O.C.

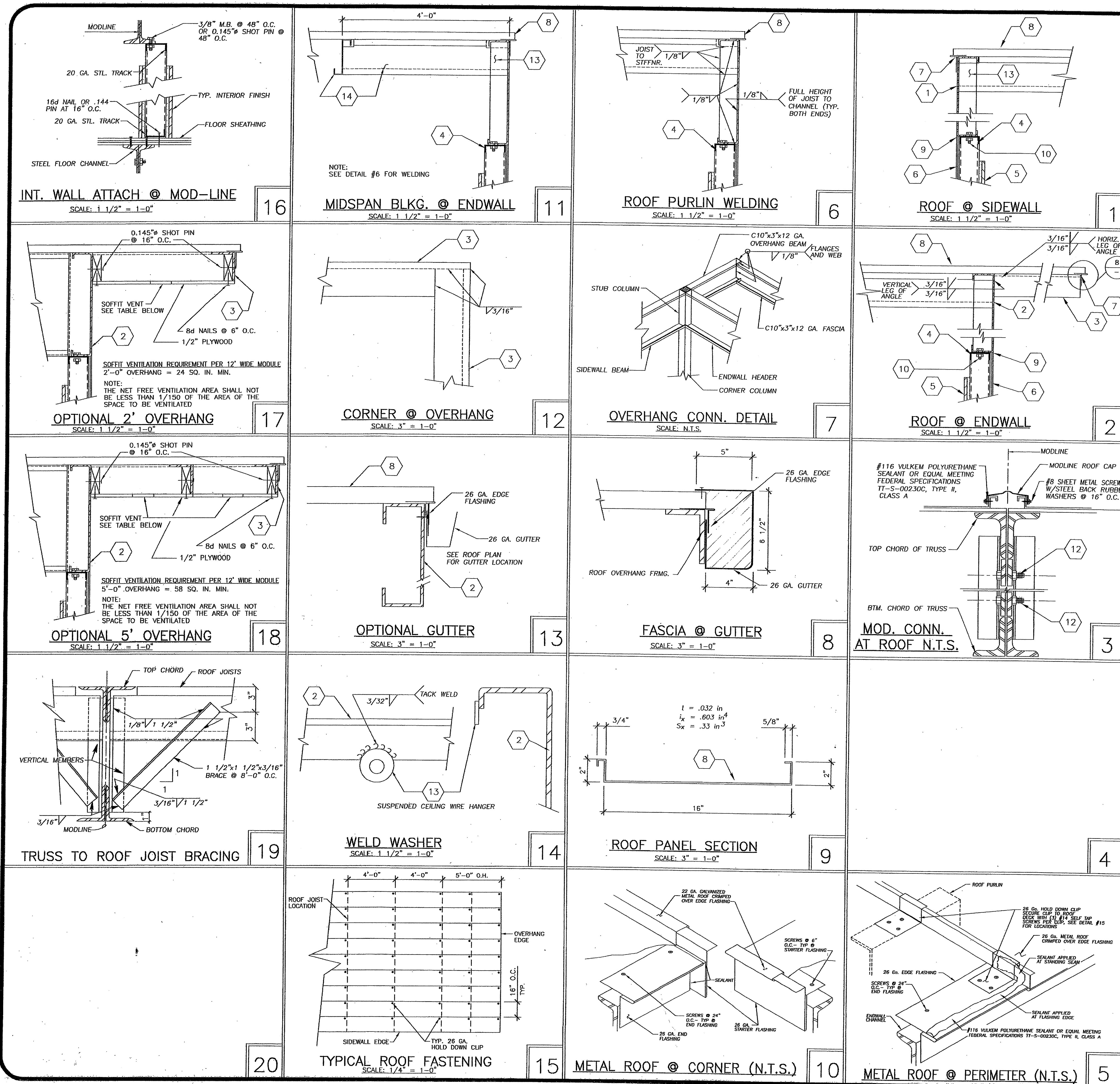


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200 CUBS AVE. RIVERSIDE, CALIFORNIA 92507  
PHONE: (951) 788-3335 FAX: (951) 788-1533

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PROJECT: MODULAR CLASSROOM BUILDING  
TITLE & BLDG. DATA:  
ROOF FRAMING PLAN W/ 22 GA. METAL DECK  
WIND LOAD: 80 & 90 MPH  
ROOF LOAD: 20 & 30 PSF  
FLOOR LOAD: 50, 60+20, 100 & 125 PSF  
DATE: 12/1/02  
DRAWN BY: JAG  
SCALE: AS NOTED  
APPROVED:  
REVISIONS:  
SHEET NO. S-41

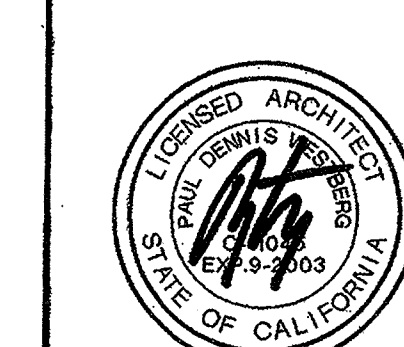
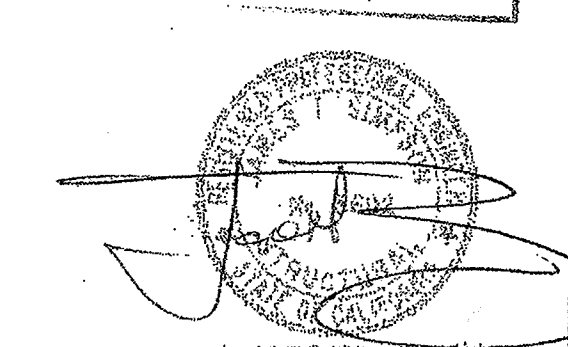




# KEYNOTES

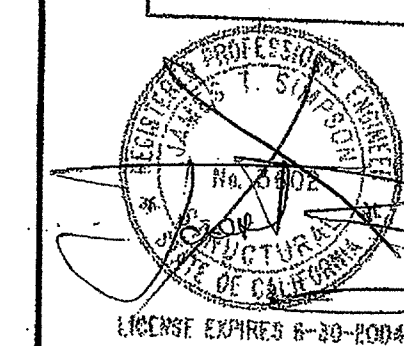
- 10 GA. CHANNEL @ ROOF SIDEWALL  
DUAL SLOPE OPTION: 18/23/18x3 1/2x10 GA.  
SINGLE SLOPE OPTION: 18/28/18x3 1/2x10 GA.
- 12 GA. CHANNEL @ ROOF HEADER  
DUAL SLOPE OPTION: 18x3 1/2x12 GA.  
SINGLE SLOPE OPTION: 18/28x3 1/2x12 GA.
- OVERHANG @ ENDWALL - SEE ROOF PLAN FOR SIZE  
AND SHIP G-2 FOR OVERHANG MATERIAL.
- 20 GA. STL. TRACK CONT. TOP PLATE -  
ATTACH TO CHANNEL W/ 0.145" SHOT  
PIN AT 18" O.C. OR 3/8" BOLT AT 24" O.C. MIN.
- INTERIOR FINISH - SEE SHEET G-2
- TYP. EXTERIOR FINISH - SEE SHEET G-2
- 26 GA. FLASHING
- STEEL ROOF DECK - 22 GA. ROLL FORMED STANDING SEAM  
ROOF DECK. SEE DETAIL #9 ROOF PANEL SECTION. SEE DETAILS  
#5 AND #10 FOR ATTACHMENT SPECIFICATIONS.
- PAINTABLE ACRYLIC LATEX SEALANT (U.N.O.)
- 1/2" MACHINE BOLT W/ WASHER @ 24" O.C. MIN. OR  
0.145" SHOT PIN AT 18" O.C.
- WELD WASHER - 1-3/8"x 3/32" WITH 9/16" HOLE.  
WELD TO UPPER CHANNEL FLANGE.
- 5/8" MACHINE BOLT AT 8'-0" O.C. @ MODULE CONNECTION.
- 1/4" FULL HEIGHT STIFFENER @ 4'-0" O.C.
- 6"x 14 GA. ROOF JOIST OR BLK.

DATE SIGNED  
JUN 8 2003



ARCHITECT STAMP

DATE SIGNED  
MAY 21 2003



STRUCTURAL ENGINEER STAMP

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APL 01 105425  
AC DATE FLS 6/13/23  
STATE AGENCY STAMP

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGISTRATION SERVICES  
4-104778  
AC DATE FLS 6/13/23  
STATE AGENCY STAMP

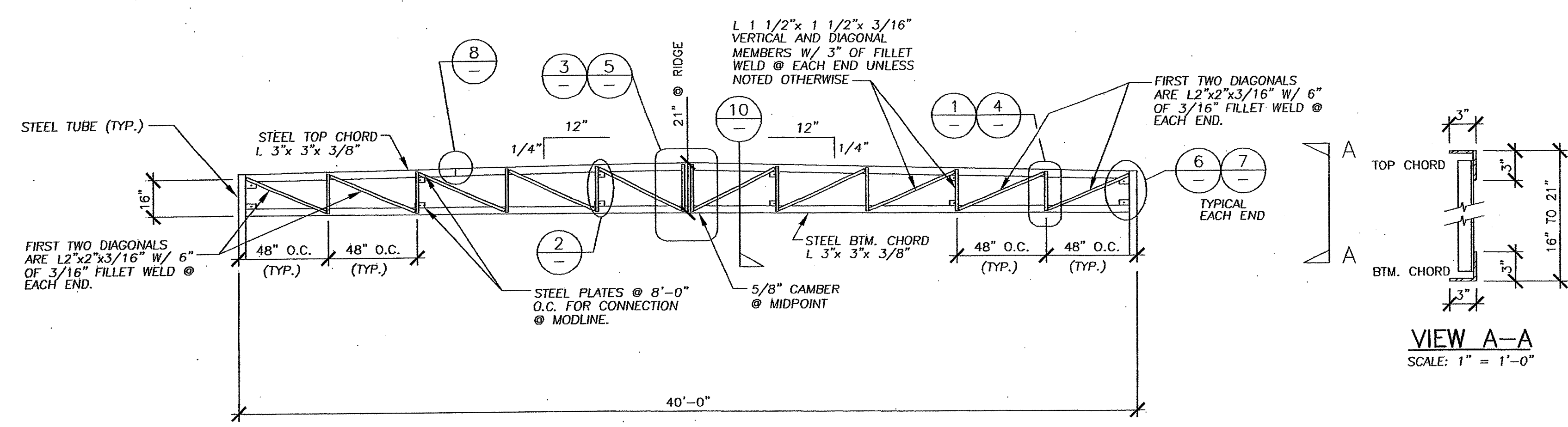
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MODULAR STRUCTURES INTERNATIONAL, INC.  
920 CITRUS AVE. RIVERSIDE, CALIFORNIA 92507  
PHONE: (951) 788-3035 FAX: (951) 788-1833

**PROJECT:** MODULAR CLASSROOM BUILDING  
**TITLE & BLDG. DATA:** ROOF FRAMING DETAILS W/ METAL DECK  
**WIND LOAD:** 80 & 90 MPH  
**ROOF LOAD:** 20 & 30 PSF  
**FLOOR LOAD:** 50, 50+20, 100 & 125 PSF

**DATE:** 12/1/02  
**DRAWN BY:** JAG  
**SCALE:** AS NOTED  
**APPROVED:**  
**REVISIONS:**

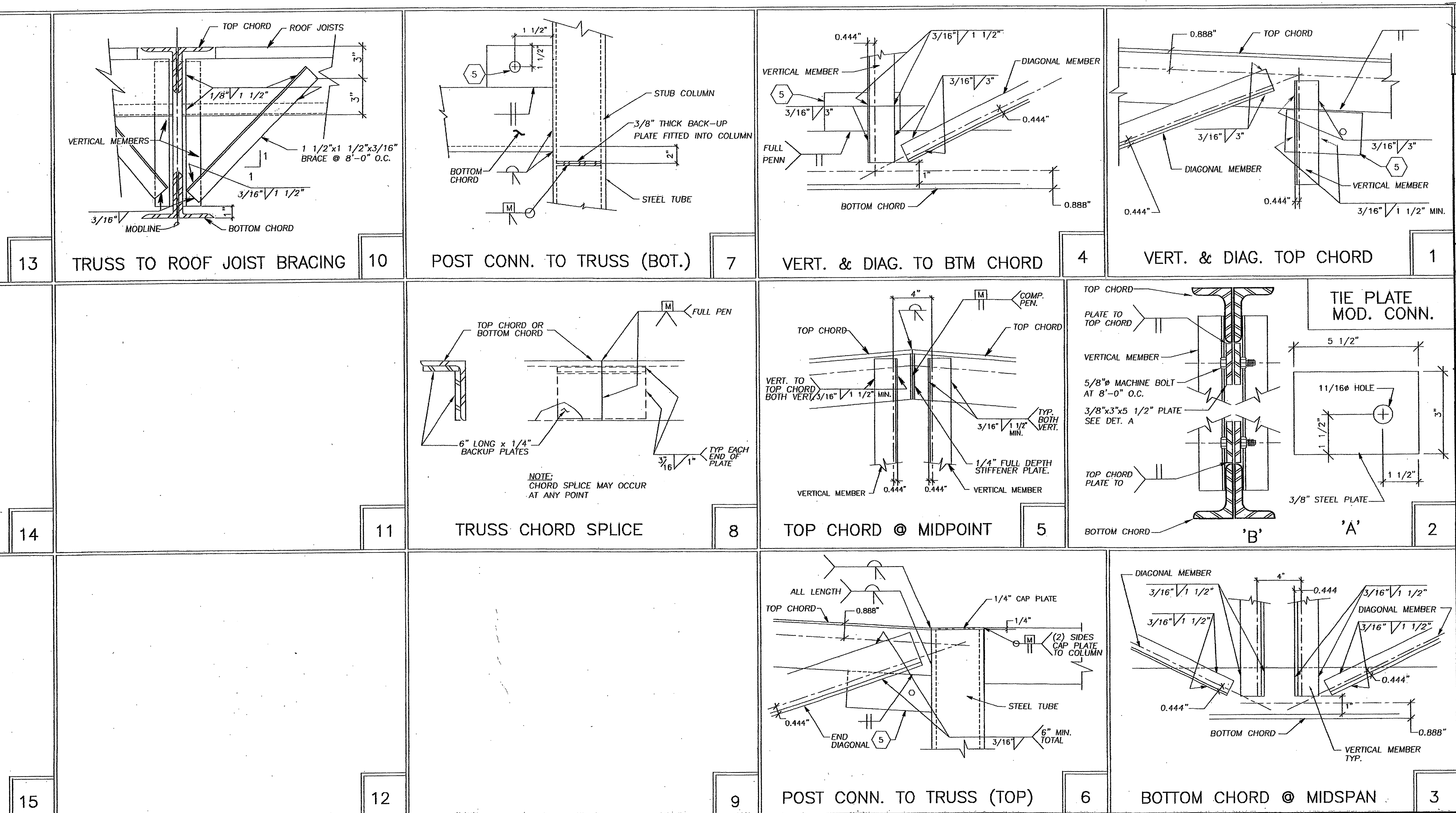
**SHEET NO.**  
S-51





- NOTES:
1. ALL STEEL GRADES TO BE A-36 OR EQ. WITH 36 K.S.I. MIN. YIELD.
  2. REQUIRED ELECTRODES FOR ALL WELDS TO BE E-70XX OR EQ.
  3. VOLTAGE & AMPERAGE SHALL BE PER ELECTRODE MANUFACTURERS SPECIFICATIONS.
  4. BOLTS & NUTS TO BE A307.
  5. 3/8"x3"x5 1/2" PLATE WITH 1 1/16" HOLE FOR 5/8" MACHINE BOLT. PLATES @ 8'-0" O.C. FOR MODULE CONNECTION. SEE DETAIL #2A.

DUAL SLOPE STEEL TRUSS ELEVATION  
W/ 20 PSF ROOF LOAD & 80 MPH WIND  
SCALE: 1/4" = 1'-0"



DATE SIGNED  
JUN 04 2003  
ARCHITECT STAMP

ARCHITECT STAMP

DATE SIGNED  
MAY 21 2003  
STRUCTURAL ENGINEER STAMP

IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
DATE: 10-2-25

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
4-10478  
DATE: 5-30-03

PROJECT: MODULAR CLASSROOM BUILDING  
TITLE & BLDG. DATA: DUAL SLOPE TRUSS & DETAILS  
WIND LOAD: 80 MPH  
ROOF LOAD: 20 PSF  
FLOOR LOAD: 50, 50+20, 100 & 125 PSF

JOB #  
DATE 12/1/02  
DRAWN BY JAG  
SCALE AS NOTED  
APPROVED  
REVISIONS  
SHEET NO. S-60



PROJECT DIRECTORY

OWNER

CUSTOM CANOPIES INC.  
11815 BURKE STREET  
SANTA FE SPRINGS, CA 90670  
T: (662) 464-4766  
F: (662) 464-4770  
CONTACT: STEVE GRAAF

ARCHITECT

RON EDWARDS ARCHITECT  
7400 PEDRICK CT  
BAKERSFIELD, CA 93313  
T: (661) 394-0053  
CONTACT: RON EDWARDS

STRUCTURAL

ORION STRUCTURAL ENGINEERING  
11305 RANCHO BERNARDO ROAD, STE 121  
SAN DIEGO, CA 92127  
T: (858) 679-1974  
CONTACT: RYAN OMER

SITE SPECIFIC DESIGN CRITERIA

WIND DESIGN DATA:

WIND SPEED: V= 93 MPH  
RISK CATEGORY=II  
WIND EXPOSURE=C  
INTERNAL PRESSURE COEFFICIENT=+/- 0.18

EARTHQUAKEDESIGN DATA:

RISK CATEGORY:II  
Ie=1.0  
Ss=1.457  
S1=0.481  
SITE CLASS=D  
SEISMIC DESIGN CATEGORY=D

SHT

SHEET INDEX

ARCHITECTURAL:

A001

TITLE SHEET

A002

TITLE 24 GUIDELINE

2 SHEETS

STRUCTURAL

S1.1

GENERAL NOTES & TYPICAL DETAILS

S1.2

GENERAL NOTES & TYPICAL DETAILS

S1.3

GENERAL NOTES & TYPICAL DETAILS

S2

CUSTOM CANOPIES 2019 CBC DRAWINGS

S3

CUSTOM CANOPIES 2019 CBC DRAWINGS

S4

CUSTOM CANOPIES 2019 CBC DRAWINGS

6 SHEETS

TOTAL

8 SHEETS

MATERIAL SPECIFICATIONS

1.

1.A.

CONCRETE: f<sub>c</sub>=4,500psi @ 28 DAYS (SPECIAL INSPECTION REQUIRED). CONCRETE SHALL BE MADE WITH TYPE V CEMENT WITH WATER RATIO NOT LESS THAN 0.50.  
SITE SPECIFIC GEOTECHNICAL REPORT MUST BE PROVIDED IF A LOWER f<sub>c</sub> IS DESIRED.

1.B.

REINFORCING STEEL: ASTM A36, F<sub>y</sub> = 36ksi.

1.C.

PLATE STEEL: ASTM A36, F<sub>y</sub> = 36ksi.

1.D.

PIPE COLUMNS: ASTM A53 GRADE B, TYPE E OR S, F<sub>y</sub> = 35ksi.

1.E.

STRUCTURAL TUBES: ASTM A500 GRADE B, F<sub>y</sub> = 42ksi OR ASTM A513 (NORMALIZED WITH A MIN. ELONGATION IN 2" OF 20%), F<sub>y</sub> = 50ksi. MIN. CORROSION PROTECTION SHALL BE TRIPLE COATED IN LINE ZINC ELECTROPLATING.

1.F.

MACHINE BLOTS: ASTM A307 OR SAE GRADE 2 MIN. (LOCK WASHER REQUIRED). BOLTS OF GREATER STRENGTH MAY USED SUCH AS ASTM F593C/304 OR F593D/304.

1.G.

CABLE STEEL: ASTM A1023, 7X19 CLASS IWRC, (TYPICALLY REFERRED TO AIRCRAFT CABLE).  
CABLE SHALL BE GALVANIZED (CLASS A ZINC COATING) OR STAINLESS STEEL. BREAKING CABLE STRENGTH FOR 1/4" DIA. = 6.4K , 5/16" DIA. = 9K, 3/8" DIA. CABLE = 12K. DESIGN STRENGTH S<sub>a</sub> FOR 1/4" DIA = 2.2K, 5/16" DIA. = 3.1K, 3/8" DIA. CABLE = 4.1K. MIN. PRETENSION FORCE ON ¼"Ø = 0.10k, ON ⅝"Ø = 0.15k, ON ¾"Ø = 0.20k. MAX. PRETENSION FORCE ON ¼"Ø = 0.15k, ON ⅝"Ø = 0.23k, ON ¾"Ø = 0.30k.

1.H.

WELDING ELECTRODES SHALL BE "GMAW / SEMI-AUTOMATIC, GRADE ER70S-6 PER AWS A-5.18"

1.I.

GROUT: COMMERCIAL GRADE QUICKCRETE, NON-SHRINK PRECISION GROUT, NO. 1585-00 F = 3000psi @ 1 DAY, 10,000psi @ 28 DAYS.

1.J.

EXPOSED STEEL FASTENERS: ALL EXPOSED STEEL FASTENERS, INCLUDING CAST-IN-PLACE ANCHOR BOLTS/RODS, SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT-DIP GLAVANIZED (ASTM A153, CLASS D MINIMUM OF ASTM F2329), OR PROTECTED WITH  
CORROSION-PREVENTATIVE COATING THAT DEMONSTRATES NO MORE THAN 2% OF RED RUST IN MINIMUM 1000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117, ZINC PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT. (EXAMPLE PROPRIETARY COATINGS THAT DO NOT COMPLY WITH THE 1000 HOUR REQUIREMENT INCLUDE BUT ARE NOT NECESSARILY LIMITED TO: QUICK GUARD BY SIMPSON, KWIK-COTE BY HILTI, STALGARD BY ELCO, VISTACORR BY SFS INTEC, ETC.)

2.

2.A.

WELDING  
WORKMANSHIP AND TECHNIQUE OF WELDING ARE TO COMFORM TO THE 2019 CBC SECTION 2204A.1. ALL WELDS SHALL BE INSPECTED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE 2019 CBC CHAPTER 17A, SECTION 1705.2.5.

3.

3.A.

CABLE CLIPS  
CABLE CLIPS SHALL BE FORGED STEEL PER FEDERAL INSPECTION FF-C-40 TYPE 1, CLASS 2 INSTALLED WITH THE U-BOLT ON THE CABLE DEAD END (SEE SPECIFICATION SHEET ON THIS SHEET.)

3.B.

BOLT TORQUE FOR ¼"Ø CABLE CLIPS = 15 lb-ft, FOR ⅝"Ø CABLE CLIPS = 30 lb-ft.

4.

4.A.

BOLT HOLES  
BOLT HOLE DIAMETERS SHALL BE ⅛" LARGER THAN THE BOLT DIAMETER.

4.B.

ALL BOLTS SHALL BE INSTALLED WITH LOCK WASHERS.

5.

5.A.

CORROSION PROTECTION  
STEEL TUBE ROOF MEMBER SHALL BE TRIPLE COATED USING IN-LINE ZINC ELECTROPLATING PER ASTM E-6 AND THEN POWDER COATED WITH A TGIC POLYESTER TOP COAT.

5.B.

STEEL PIPE COLUMNS SHALL BE POWDER COATED WITH A TGIC POLYESTER PRIMER AND TOP COAT.

5.C.

ZINC SPELTER CONFORMS TO ASTM B-6 HIGH GRADE ZINC.

6.

6.A.

FABRIC MATERIAL  
FABRIC MATERIAL SHALL BE COMTEX, EXTRA BLOCK, OR SYNTHETIC SA FR FABRIC.

6.B.

THE FABRIC SHALL BE MANUFACTURED FROM HIGH DENSITY POLYETHYLENE POLYMER.

6.C.

MIN. WEIGHT - 8.3 oz/sq.yd

6.D.

MIN. BREAKING STRENGTH PER ASTM D 5034: WARP = 165 lbs., WEFT = 260 lbs.

6.E.

MAX. ELONGATION: WARP = 115%, WEFT = 76%.

6.F.

MIN. TEAR STRENGTH PER ASTM D 2261: WARP = 26 lbs., WEFT = 26 lbs.

6.G.

FIRE RETARDANT RATING PER CSTM - TITLE 19, (REGISTRATION #: ALNET EXTRA BLOCK SHADECLOTH - F94501)

6.H.

THE FABRIC SHALL BE CAPABLE OF MAINTAINING 80% OF IT'S TENSILE AND TEARING STRENGTH AFTER EXPOSURE TO A 313NM LIGHT SOURCE APPLIED FOR 500 HOURS AND WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS PER ASTM G53. THE FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE SAMPLES OF THE SAME MATERIAL SHALL BE MAINTAINED AT THE PROJECT SITE AND TESTED TO SHOE COMPLIANCE WITH ASTM D 5034 AND D 2261.

6.I.

THE FABRIC SHALL MAINTAIN AT LEAST 50% OF IT'S ORIGINAL BREAKING STRENGTH AFTER 5 YEARS OF EXPOSURE TO SUNLIGHT.

7.

7.A.

STANDARD NOTES  
ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)

7.B.

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

7.C.

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

7.D.

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

7.E.

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA.

7.F.

GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2021\*

2019 California Administrative Code (CAC), Part 1, Title 24 CCR\*

2019 California Building Code (CBC), Part 2, Title 24 CCR (2018 International Building Code, Vol. 1 & 2, and 2019 California amendments)

2019 California Fire Code (CFC), Part 9, Title 24 CCR (2018 International Fire Code and 2019 California Amendments)

GENERAL NOTES

1.

FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33 AND CBC CHAPTER 33.

DESIGN PARAMETER CHECKLIST FOR OTC REVIEW

THE FOLLOWING CHECKLIST IS INTENDED TO ASSIST THE PLAN REVIEWER TO DETERMINE IF THIS PRE-CHECKED SUBMITTAL IS APPLICABLE TO THE SITE SPECIFIC CONDITIONS IN WHICH IT IS INTENDED TO BE USED. IF THIS CHECKLIST CANNOT BE COMPLETED, ADDITIONAL ENGINEERING PROVING SITE-SPECIFIC COMPLIANCE IS REQUIRED.

THIS PRE-CHECKED SUBMITTAL IS APPLICABLE UNDER THE FOLLOWING CIRCUMSTANCES:

☒

NONE OF THE STRUCTURAL DESIGN CRITERIA ARE EXCEEDED

☒

THE RISK CATEGORY IS 'II' OR LESS

☒

THE WIND EXPOSURE CATEGORY IS 'C' OR LESS

☒

THE PROJECT SITE BASIC ULTIMATE WIND SPEED IS <105mph

☒

THE PROJECT SITE CLASS CATEGORY IS 'D' OR LESS

☐

THE PROJECT SEISMIC DESIGN CATEGORY IS 'E' OR LESS

☒

THE PROJECT SEISMIC SDS IS MAXIMUM 1.43

☒

THE PROJECT SITE IS NOT IN A FLOOD ZONE OTHER THAN ZONE 'X'. IF SO, THEN A GEOTECHNICAL LETTER IS REQUIRED PER PC-7 1.7.2.

☒

THE PROJECT SITE IS NOT IN AN AREA REQUIRING SNOW LOADING

☐

THE PROJECT SITE IS NOT IN AN AREA CLASSIFIED AS A WILD LIFE URBAN INTERFACE ZONE

☐

THE ALLOWABLE SOIL COMPRESSIVE STRENGTH IS 1500psi OR GREATER

☒

IF THE CANOPY SIZE IS <1600s.f. IN AREA, NO GEOTECHNICAL/GEOHAZARDS REPORT IS REQUIRED.

☐

IF THE CANOPY SIZE IS >1600s.f. AND <4000s.f. AND THERE IS A GEOTECHNICAL REPORT PROVING THAT NO POTENTIAL FOR LIQUIFICATION EXISTS

☐

IF THE CANOPY SIZE IS >4000s.f., A SITE SPECIFIC GEOTECHNICAL/GEOHAZARD REPORT IS REQUIRED

☒

GEOTECHNICAL/GEOHAZARD REPORT REQUIRED IN MAPPED GEOLOGIC HAZARD ZONES AND AS REQUIRED BY IR-4.

☒

THE CANOPY SIZE PROVIDES THE MINIMUM REQUIRED AREA FOR SELECTED ASSEMBLY USE AND DESIRED OCCUPANCY LOAD (SEE ASSEMBLY USE CHECKLIST)

☒

THIS PROJECT HAS NOT BEEN DESIGNED TO INCLUDE FIRE SPRINKLERS.

☒

THE PROJECT IS NOT INTENDED TO PROVIDE SOLAR PANELS

ASSEMBLY USE SELECTION CHECKLIST

THE FOLLOWING CHECKLIST IS TO BE USED BY THE PARTY SUBMITTING THIS PRE-CHECK TO INDICATE THE INTENDED ASSEMBLY USE FOR THIS STRUCTURE.

☐

DINING CANOPY - ASSEMBLY USE (1200 s.f. MAX.) - 'A2'

☐

SHADE STRUCTURE - ASSEMBLY USE (1200 s.f. MAX.) - 'A'

☐

SHADE STRUCTURE - OUTDOOR INSTRUCTIONAL USE (1200 s.f. MAX.) - ASSEMBLY USE - 'E'

☒

SHADE STRUCTURE OVER PLAY EQUIPMENT (1200 s.f. MAX.) - ASSEMBLY USE - 'E'

☐

SHADE STRUCTURE OVER PARKING - ASSEMBLY USE (1200 s.f. MAX.) - 'S2' OR 'U'

NOTE: THE LOCATION OF THESE CANOPIES ADJACENT TO OTHER BUILDINGS IS SUBJECT TO SITE SPECIFIC APPROVAL

☒

THE INTENDED OCCUPANT LOAD IS \_\_\_\_\_ PERSONS

FOOTINGS SELECTION CHECKLIST

THE FOLLOWING CHECKLIST IS TO BE USED BY THE PARTY SUBMITTING THIS PRE-CHECK TO INDICATE THE INTENDED SIZES USED FOR THIS PRE-CHECK STRUCTURE.

☐

SPREAD FOOTINGS

☒

PIER FOOTINGS

SITE-SPECIFIC CODE ANALYSIS

THE SECTION IS TO BE FILLED OUT BY THE ARCHITECT OF RECORD FOR THE SITE-SPECIFIC APPROVAL

☒

OCCUPANCY GROUP: E (SEE ASSEMBLY USE CHECKLIST)

☐

OCCUPANCY LOAD: N/A (MAX OCC LOAD 86 PERSON PER 15'x10' MODULE)

☒

TYPE OF CONSTRUCTION: VB

☒

PROPOSED AREA: 900 sf (ea.)

☒

ALLOWABLE AREA: 1200 sf (ea.)

IR 31-1 (Issued 07/27/21)  
DIVISION OF THE STATE ARCHITECT  
9.3 Shade structures installed over outdoor play area equipment do not require an occupant load calculation.

CANOPY SIZE SELECTION CHECKLIST

THE FOLLOWING CHECKLIST IS TO BE USED BY THE PARTY SUBMITTING THIS PRE-CHECK TO INDICATE THE INTENDED SIZES USED FOR THIS PRE-CHECK STRUCTURE.

☐

20'X10'

☐

20'X15'

☐

20'X20'

☐

25'X25'

☐

30'X20'

☐

30'X25'

☐

36'X18'

☐

40'X20'

☒

(2) 30'X30'

☐

40'X30'

☐

\_\_'X\_\_' (FOR INTERMEDIATE SIZE)

☐

\_\_'X\_\_' (FOR INTERMEDIATE SIZE)

NOTES:

1.

PLAN DIMENSIONS ARE REPEATABLE IN ANY ONE DIRECTION TO A TOTAL AREA OF 6000 SQ.FT.

2.

INTERMEDIATE SIZES MAY USE THE MEMBER SIZES OF THE NEXT LARGEST CANOPY WITH AN IDENTICAL WIDTH TO LENGTH RATIO.

COLUMN HEIGHTS:

☐

9' COLUMN HEIGHT

☒

10' COLUMN HEIGHT

☐

11' COLUMN HEIGHT

☐

12' COLUMN HEIGHT

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120552 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022

rea  
architect  
RON EDWARDS

Architecture

7400 Pedrick Court  
Bakersfield, CA 93313  
(661) 394-0053  
ron@reachitect.net

MANUFACTURER:

CUSTOM CANOPIES INC.  
11815 BURKE STREET  
SANTA FE SPRINGS, CA 90670

IDENTIFICATION STAMP DIVISION OF THE  
STATE ARCHITECT  
PRE-CHECK PC DOCUMENT  
CODE: 2018 CBC  
A separate application for  
construction is required

PC APPROVAL STAMP:  
APPROVED  
DIV. OF THE STATE ARCHITECT  
APP: 04-120090 PC  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒ CG ☐  
DATE: 06/30/2021

PRECHECK FABRIC SHADE  
STRUCTURE

Sheet Title

TITLE SHEET

Project #  
21-003

Sheet

Drawn By  
RWE

Date  
5-10-20

A001

Page 1 of 1



CONCRETE:

1.

ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE 2019 C.B.C. AND THE A.C.I. 318–14 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
2.

SLAB AND FOUNDATION CONCRETE SHALL BE 150 P.C.F. HARDROCK, MIXED PER A.S.T.M. C–94, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4500 P.S.I. AT 28 DAY. MAX. SLUMP TO BE 4" ± 1" OF W/C RATIO ≤ .50
3.

CONCRETE LIMITED TO EXPOSURE CLASS FO, S1, W1 AND C1
4.

THE MAXIMUM SIZE AGGREGATE IN FOUNDATION AND MASS CONCRETE WORK SHALL BE 1 INCH.
5.

CEMENT SHALL CONFORM TO A.S.T.M.. C–150, TYPE II, LOW ALKALI. AGGREGATES FOR NORMAL WEIGHT SHALL CONFORM TO A.S.T.M. C–33.
6.

ADMIXTURES AND COLORS (EXCEPT AS NOTED HEREIN) SHALL NOT BE USED UNLESS SUBSTANTIATING DATA IS SUBMITTED TO AND ACCEPTED BY THE ENGINEER AND ARCHITECT OF RECORD AND DSA.
7.

CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. THE MIX DESIGNS SHALL CONFORM TO ACI 318–14 SECTION 26.4.3. UNLESS NOTED OTHERWISE.
8.

NON–STRUCTURAL STEEL EMBEDDED IN CONCRETE SHALL BE GALVANIZED OR PAINTED. ALL DAMAGED GALVANIZED AREAS SHALL BE REPAIRED PRIOR TO EMBEDMENT.
9.

READY MIXED CONCRETE SHALL CONFORM TO (A.S.T.M. C–94).
10.

PLACEMENT OF CONCRETE SHALL CONFORM THE 2019 C.B.C. AND THE TO A.C.I. 304. CLEAN AND ROUGHEN A FULL AMPLITUDE OF ¼" BY REMOVING THE ENTIRE SURFACE AND EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX AGAINST ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE POURED.
11.

ALL EXPOSED CONCRETE SHALL HAVE A SMOOTH FORM FINISH USING B–B PLYFORM, CLASS I, EXT–A.P.A. PLYWOOD.
12.

ALL SLABS SHALL HAVE A TROWELED FINISH EXCEPT AS NOTED ON THE DRAWINGS.
13.

ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
14.

IF THE CONTRACTOR DESIRES TO MAKE ANY CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THESE DRAWINGS, HE SHALL SUBMIT DETAILS OF CHANGES TO THE ENGINEER OF RECORD FOR REVIEW BEFORE STARTING WORK AND THE ENGINEER OF RECORD TO OBTAIN DSA APPROVAL PRIOR TO STARTING WORK.
15.

NO BRICK OR POROUS MATERIAL SHALL BE USED TO SUPPORT FOUNDATION STEEL OFF THE GROUND.
16.

PROVIDE 1/2 INCH CHAMFER ON ALL EXPOSED CONCRETE CORNERS, U.N.O.
17.

MINIMUM CONCRETE COVERAGES  

FOOTINGS CAST AGAINST EARTH

3"

FORMED CONCRETE EXPOSED TO EARTH OR WEATHER

2"
18.

CONCRETE CURING:  
SLAB AND FDN; TYPICALLY REQUIRED FOR 10 DAYS TO ACHIEVE A MINIMUM OF 3000 PSI STRENGTH PRIOR TO INSTALLATION OF OTHER MAJOR STRUCTURAL COMPONENTS.

FOUNDATION:

1.

THIS P.C. IS DESIGN TO THE C.B.C. MINIMUM. WHERE SOIL REPORT IS AVAILABLE; ATTACH ONE COPY OF SOILS REPORT TO THE APPROVED SET OF CONSTRUCTION DOCUMENTS. SOILS REPORT SHALL BE PART OF THESE NOTES. PRIOR TO THE POURING OF CONCRETE AND PRIOR TO THE CONTRACTOR REQUESTING A DSA FOUNDATION INSPECTION, THE GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE THE FOOTING EXCAVATIONS. HE SHALL POST NOTICE ON THE JOB SITE AND ADVISE THE DSA INSPECTOR IN WRITING THAT THE WORK SO INSPECTED MEETS THE CONDITIONS OF THE REPORT. A WRITTEN CERTIFICATION TO VERIFY THAT:  

A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOIL REPORT.

B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED, AND

C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT.
2.

SOIL REMOVAL AND RECOMPACTION SHALL BE DONE PER SOILS REPORT RECOMMENDATIONS UNDER GEOTECHNICAL ENGINEER'S SUPERVISION AND INSPECTION.
3.

TYPE OF FOOTING:  

A. SHALLOW FOOTING SYSTEM MINIMUM EMBEDMENT 18" BELOW LOWEST ADJACENT GRADE.

DESIGN SOIL PRESSURE:  

FOOTING TYPE	STATIC BEARING PRESSURE
SPREAD FOOTING	1,500 psf
CONTINUOUS FOOTING	1,500 psf
LATERAL BEARING	100 pcf*

\* DOUBLED PER SECTION 1806A.3.4
4.

ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
5.

THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN AREAS TO BE EXCAVATED BEFORE BEGINNING EXCAVATION. EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING. DAMAGE CAUSED AS A RESULT OF FAILING TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
6.

THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, APPROVALS, PERMITS, INSTALLATION AND MONITORING OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN TEMPORARY EXCAVATIONS.
7.

ALL PLANTERS IN CLOSE PROXIMITY TO THE STRUCTURE SHALL HAVE ADEQUATE DRAINAGE OF SURFACE WATER TO PREVENT SATURATION OF SOIL UNDER FOUNDATION.
8.

2019 C.B.C. SEISMIC SITE CLASS A, B, C, AND D

REINFORCING STEEL:

1.

ALL REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH THE C.B.C., AND THE "MANUAL OF STANDARD PRACTICE" BY THE C.R.S.I.
2.

REINFORCING BARS SHALL CONFORM TO A.S.T.M. A–615, DEFORMED GRADE 60. REINFORCING BARS THAT ARE TO BE WELDED SHALL CONFORM TO A.S.T.M. A–706, DEFORMED GRADE 60.
3.

WELDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH A.S.T.M. A–706 WITH LOW HYDROGEN ELECTRODES AND SHALL CONFORM TO THE STRUCTURAL WELDING CODE REINFORCING STEEL BY A.N.S.I. / A.W.S. D1.4. MINIMUM TENSILE STRENGTH OF WELD METAL SHALL BE 90 K.S.I. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.
4.

ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
5.

REINFORCING SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS.
6.

SLAB ON GRADE REINFORCING SHALL BE POSITIONED AT MID–DEPTH, UNLESS NOTED OTHERWISE.
7.

PROVIDE #3 SPACER TIES AT 2'–6" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE REINFORCING BARS IN PLACE, U.N.O.
8.

PIPING AND CONDUIT SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED. A.C.I. #318–14

GENERAL NOTES:

1.

THE PROJECT SPECIFICATIONS SHALL BE PART OF THE CONTRACT DOCUMENTS.
2.

THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
3.

THE CONTRACTOR SHALL REVIEW EXISTING CONDITIONS ON THE SITE DURING THE BIDDING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO PROCEEDING.
4.

ALL PHASES OF WORK ARE TO CONFORM TO THE MINIMUM STANDARDS OF THE CALIFORNIA BUILDING CODE (2019 EDITION C.B.C.), RELATED CALIFORNIA BUILDING CODE STANDARDS, AND ANY A.S.T.M. SPECIFICATIONS ON WHICH THESE STANDARDS ARE BASED. WHERE CONFLICT BETWEEN BUILDING CODES AND SPECIFICATIONS OCCURS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
5.

ALL A.S.T.M. DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATION, AS OF THE DATE OF THESE DRAWINGS.
6.

ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
7.

NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
8.

THE STRUCTURAL DRAWINGS SHOW ONLY THE BASIC STRUCTURAL REQUIREMENTS. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NON–STRUCTURAL ITEMS, SUCH AS:  

A. SIZE AND LOCATION OF ALL OPENINGS.

B. SIZE AND LOCATION OF ALL NON–BEARING WALLS.

C. SIZE AND LOCATION OF ALL CONCRETE CURBS, WALKS, ROOF AND FLOOR DRAINS, SLOPES, DEPRESSED SLAB AREAS, ETC.

D. FLOOR, ROOF AND WALL FINISHES.

E. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
9.

THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
10.

NEITHER THE OWNER NOR THE ARCHITECT/STRUCTURAL ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE SAFETY ITEMS.
11.

SATISFACTORY EXECUTION OF CONSTRUCTION IS DEPENDENT UPON CONFORMANCE WITH THE INTENT OF THESE DRAWINGS. OWNER OR CONTRACTOR SHALL RETAIN A CALIFORNIA LICENSED STRUCTURAL ENGINEER DURING CONSTRUCTION TO OBSERVE THE CONSTRUCTION AND FILE A REPORT (DSA 6AE) STATING THE "THE CONSTRUCTION HAS, IN EVERY MATERIAL RESPECT, BEEN PERFORMED IN COMPLIANCE WITH THE DSA APPROVED DOCUMENTS".
12.

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD FOR EACH PARTICULAR LEVEL. WHEN WEIGHT OF MATERIALS OR EQUIPMENT MAY EXCEED DESIGN LOAD, STRUCTURAL SYSTEMS SHALL BE SHORED.
13.

WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK. THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.

DESIGN BASIS:

CODE: 2019 C.B.C. (CALIFORNIA BUILDING CODE CCR, TITLE 24, PART 2)

GRAVITY LOADS:

1. ROOF LIVE LOAD

5 P.S.F. (REDUCIBLE)
- ROOF DEAD LOAD

1.5 P.S.F. (MAX.)
2. SNOW LOAD Pg

0.0 P.S.F.

LATERAL LOADS:

1. SEISMIC DESIGN

☒ SITE CLASS = A,B,D (GEOTECH REPORT IS REQUIRED TO SUPPORT OTHER SITE CLASSES)

OCCUPANCY CATEGORY = II  
REDUNDANCY ( ρ ) = 1

Ss = 3.6  
Fa = 1  
Sms = 3.6 Sms = Fa x Ss  
Sps = 2.400 Sds = Sms x 2/3

Si = 0.75  
Fv = 1.7  
Sm1 = 1.275 Sms = Fv x Ss  
Sp1 = 0.850 Sds = Sms x 2/3

☐ SITE CLASS C AND D DEFAULT

OCCUPANCY CATEGORY = II  
REDUNDANCY ( ρ ) = 1

Ss = 3  
Fa = 1.2  
Sms = 3.6 Sms = Fa x Ss  
Sps = 2.400 Sds = Sms x 2/3

Si = 0.75  
Fv = 1.4  
Sm1 = 1.05 Sms = Fv x Ss  
Sp1 = 0.700 Sds = Sms x 2/3

CANOPIES OCCUPANCY = II

SPECIAL STEEL CANTILEVER COLUMNS

SEISMIC DESIGN CATEGORY

TABLE 1613A.2.5 = D (ASCE 7–16 TABLE 11.6.1 AND TABLE 11.6.2)  
Ie = 1.000  
R = 2.500

Cs = Sds/(R/Ie) (LRFD) = 0.960

ANALYSIS METHOD = EQUIVALENT LATERAL FORCE ANALYSIS

2. WIND DESIGN  
ANALYSIS METHOD = DIRECTIONAL PROCEDURE (OPEN STRUCTURE)  
V = 100 M.P.H. BASIC WIND SPEED, ASCE 7–16 FIGURE 26.5.1–B  
EXPOSURE "c"  
Kzt = 1.0  
RISK CATEGORY = II  
STRUCTURE IS DESIGN FOR CLEAR AND OBSTRUCTED WIND FLOW

FLOOD HAZARD: DESIGN DOES NOT ACCOUNT FOR FLOOD HAZARD

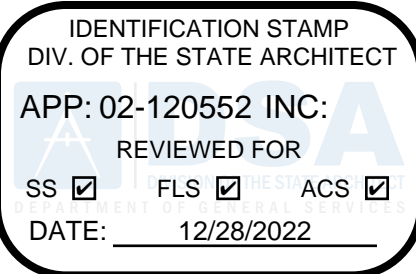
SITE SPECIFIC GEOTECHNICAL STUDY IS NOT REQUIRED

BUILDING SEPARATION REQUIREMENT:

MINIMUM CLEAR DISTANCE REQUIRED BETWEEN EXISTING SITE STRUCTURE/ADJACENT SITE STRUCTURE AND METAL WALKWAY IS TO BE AT LEAST 12".

MINIMUM CLEAR DISTANCE REQUIRED BETWEEN FOUNDATIONS OF EXISTING SITE STRUCTURE/ADJACENT SITE STRUCTURE AND METAL WALKWAY IS TO BE AT LEAST 10'.

SEISMIC BASE SHEAR	
BUILDING CONFIGURATION	BASE SHEAR (KIP)
20'x10'	0.8K
20'x15'	0.85K
20'x20'	1.1K
25'x25'	1.1K
30'x20'	1.51K
30'x25'	1.9K
30'x30'	2.58K
36'x18'	2.1K
40'x20'	2.4K
40'x30'	4.36K



Architecture  
7400 Pedrick Court  
Bakersfield, CA 93313  
(661) 394-0053  
ron@rearchitect.net



CUSTOM CANOPIES INC.  
11815 BURKE STREET  
SANTA FE SPRINGS, CA 90670

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

PC APPROVAL STAMP:

APPROVED  
DIV. OF THE STATE ARCHITECT  
APP: 04-120090-PC  
REVIEWED FOR  
SS, FLS, ACS, CG  
DATE: 06/30/2021

PRECHECK FABRIC SHADE  
STRUCTURE

MANUFACTURER:

General Notes and  
Typical Details

Project #

21-003

Drawn By

RWE

Date

6-17-21

Sheet

S1.1



STRUCTURAL OBSERVATION:

1. PER C.B.C. CHAPTER 17A, 1704A.6 THE OWNER SHALL EMPLOY A LICENSED ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, OR HIS DESIGNATED ENGINEER OR ARCHITECT TO MAKE SITE VISITS TO OBSERVE GENERAL COMPLIANCE WITH THE APPROVED STRUCTURAL PLANS, SPECIFICATIONS AND CHANGE ORDERS. THE ENGINEER OR ARCHITECT SHALL SUBMIT A STATEMENT IN WRITING TO THE BUILDING OFFICIAL STATING THAT THE SITE VISIT HAS BEEN MADE AND THAT ANY DEFICIENCIES NOTED HAVE BEEN CORRECTED.
2. IN ACCORDANCE WITH SECT. 4-333 (a) OF TITLE 24, PART 1, STRUCTURAL OBSERVATION SHALL INCLUDE AND OCCUR AT THE FOLLOWING STAGES:
- A. OBSERVATION AT THE SITE PRIOR TO PLACING CONCRETE.
- B. OBSERVATION OF THE BUILDING DURING FABRICATION AFTER THE MAJORITY OF STRUCTURAL ITEMS ARE IN PLACE.
- C. OBSERVATION OF THE COMPLETED STRUCTURE PRIOR TO BEING COVERED FINISHES.
3. AT COMPLETION OF IN-PLANT MANUFACTURING THE INDIVIDUAL ACCEPTING RESPONSIBILITY FOR OBSERVATION OF IN-PLANT MANUFACTURING SHALL SIGN THE VERIFIED REPORT, DSA 152-IPI ( IN-PLANT INSPECTOR VERIFIED REPORT ).
4. OBSERVATION OF THE ON SITE CONSTRUCTION INCLUDES THE SCOPE OF WORK INDICATED ON THE DSA APPROVED MODULAR BUILDING PLANS AND SPECS.
5. INTERIM AND FINAL VERIFIED REPORTS ARE REQUIRED DURING, AND AT THE COMPLETION OF, ON SITE CONSTRUCTION AND INSTALLATION USING FORM DSA 6-AE ( ARCHITECT/ENGINEER VERIFIED REPORT ).
6. STRUCTURAL TESTING & SPECIAL INSPECTIONS: SEE APPROVED DSA-103 FORM FOR STRUCTURAL TESTING & INSPECTIONS.

GOVERNING BASE REACTIONS								
BLD'G CONFI.	LOAD CASE	F(X) KIPS	F(Y) KIPS	F(Z) KIPS	M(X) K-FT	M(Y) K-FT	M(Z) K-FT	
20' x 10'	DL	0.01	0.19	0.00	0.01	0.00	-0.02	
	RLL	0.01	0.26	0.00	-0.01	0.00	-0.05	
	ELX	-0.19	-0.08	0.04	0.16	0.00	1.43	
	ELZ	-0.04	0.18	-0.18	-1.34	-0.01	0.14	
	WL	-0.08	-1.69	0.02	0.07	0.01	0.30	
20' x 15'	DL	0.01	0.22	-0.01	-0.02	0.00	-0.03	
	RLL	0.02	0.39	0.01	0.04	0.00	-0.07	
	ELX	-0.22	-0.08	0.03	0.10	0.01	1.74	
	ELZ	-0.03	-0.13	-0.22	-1.58	0.00	0.12	
	WL	-0.12	-2.48	-0.06	-0.22	-0.01	0.45	
20' x 20'	DL	0.01	0.27	0.01	0.02	0.00	-0.03	
	RLL	0.02	0.52	0.01	0.03	0.00	-0.09	
	ELX	-0.27	-0.11	0.04	0.16	0.01	2.12	
	ELZ	0.04	0.14	-0.27	-1.85	0.00	-0.14	
	WL	-0.14	-3.34	0.05	0.19	0.01	0.52	
25' x 25'	DL	-0.02	0.43	-0.02	-0.06	0.00	0.10	
	RLL	-0.06	0.82	-0.03	-0.13	0.00	0.25	
	ELX	-0.41	-0.11	-0.03	0.03	0.05	3.09	
	ELZ	-0.09	-0.13	-0.35	-2.47	0.05	0.41	
	WL	0.35	-5.24	0.19	0.74	-0.01	-1.46	
30'x20'	DL	-0.02	0.39	-0.01	-0.03	0.00	0.07	
	RLL	0.04	0.78	-0.01	-0.05	0.00	-0.16	
	ELX	-0.38	-0.11	0.05	0.18	0.00	2.92	
	ELZ	-0.06	-0.16	-0.38	-2.91	0.01	0.22	
	WL	0.25	-5.00	0.08	0.30	-0.01	-0.94	
30'x25'	DL	-0.03	0.48	-0.02	-0.06	0.00	0.10	
	RLL	-0.06	0.98	-0.03	-0.12	0.00	0.24	
	ELX	-0.47	-0.12	-0.06	-0.22	0.00	3.76	
	ELZ	0.06	0.15	-0.46	-3.66	0.00	-0.23	
	WL	-0.39	-6.23	-0.19	-0.72	-0.01	1.47	
30'x30'	DL	-0.04	0.65	-0.04	-0.14	0.00	0.14	
	RLL	-0.09	1.17	0.06	0.21	0.00	0.34	
	ELX	-0.65	-0.14	-0.07	-0.26	0.00	5.61	
	ELZ	0.07	0.17	-0.64	-5.25	0.00	-0.25	
	WL	-0.54	-7.50	-0.33	-1.25	-0.01	2.07	
36'x18'	DL	-0.05	0.60	-0.02	-0.08	0.00	0.21	
	RLL	-0.10	1.07	0.05	0.17	0.00	0.38	
	ELX	-0.52	0.13	-0.07	-0.24	0.00	3.90	
	ELZ	-0.08	0.20	-0.52	-4.03	0.00	0.30	
	WL	0.57	-6.83	0.25	0.95	-0.01	-2.16	
40'x20'	DL	0.05	0.61	-0.01	-0.03	0.00	-0.18	
	RLL	0.08	1.04	-0.02	-0.08	0.00	-0.30	
	ELX	-0.60	-0.13	-0.06	-0.23	0.00	4.46	
	ELZ	-0.09	0.24	-0.59	-4.72	-0.01	0.35	
	WL	-0.46	-6.68	0.12	0.45	0.01	1.74	
40'x40'	DL	0.08	1.00	0.03	0.11	0.00	-0.31	
	RLL	0.11	1.56	-0.06	-0.21	0.00	-0.43	
	ELX	-1.10	-0.22	-0.12	-0.45	0.00	8.75	
	ELZ	-0.13	0.29	-1.09	-8.80	0.00	0.50	
	WL	0.67	-9.95	0.32	1.20	0.00	-2.57	

COLD FORMED STRUCTURAL STEEL:

1. 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 2016 A.I.S.I. S100 SPECIFICATIONS. WITH SUPPLEMENT AND 2019 CBC SECTIONS 2210A, 2211A, & 2213A.
2. ALL GALVANIZED TRACK BRIDGING, END ENCLOSURES AND ACCESSORIES SHALL CONFORM TO A.S.T.M. A-1011 GRADE A (Fy = 33 K.S.I.).
3. STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123 OR A153 CLASS D OR PAINTED WITH ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT; OR EQUIVALENT PAINT SYSTEM. COLD FORMED STEEL MEMBERS SHALL BE 5 PORCENT ALUMINUM-ZINC ALLOY COATED PER ASTM A792/A792M STANDARD IN ACCORDANCE TO AMERICAN IRON AND STEEL INSTITUTE (AISI) S240 TABLE A4-1, CP 90 COATING DESIGNATION.
4. CARBON SHEET STEEL MUST MEET THE MINIMUM REQUIREMENTS OF A.S.T.M. A1011 GRADE 50 K.S.I. FOR 12,14 AND 16 GAUGE AND GRADE 33 K.S.I. FOR 18 GAUGE AND LIGHTER MEMBERS, CARBON SHEET STEEL PRODUCTS MUST BE THOROUGHLY COATED WITH A RUST INHIBITIVE PAINT.
5. 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.
6. FASTENINGS OF COMPONENTS SHALL BE WITH ASTM C1513 SELF-DRILLING SCREWS OR WELDING U.N.O. SCREWS OR WELDS SHALL BE OF 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.
7. ALL SHEET METAL SCREWS SHALL COMPLY W/ICC ESR-1976 OR APPROVED EQUAL.
8. ALL WELDING OR MATERIAL LESS THAN 0.18 INCHES IN THICKNESS SHALL BE MADE IN ACCORDANCE WITH THE A.W.S. D1.3 WELDERS AND WELDING PROCEDURES AND SHALL BE QUALIFIED AS SPECIFIED IN A.W.S. D1.3.
9. TOUCH UP COLD GALVANIZING USING ZRC CHEMICAL PRODUCTS CO., ZRC COLD GALVANIZING COMPOUND OR EQUAL.
- 10.

COATING CLASSIFICATION	COATING DESIGNATOR	MINIMUM COATING REQUIREMENTS			
		ZINK COATED <sup>A</sup> oz/ft <sup>2</sup> (g/m <sup>2</sup> )	ZINK 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	G60 [Z180]	G60 [Z180]	AZ50 [AZM150]	GF30 [ZGF90]
	CP 90	G90 [Z275]	Not Applicable	AZ50 [AZM150]	GF45 [ZGF135]
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 A875/875.
- <sup>E</sup> In accordance with the requirements of ASTM A1003/A1003M.

LOAD COMBINATIONS										
ASCE7-16 LOAD COMB.	LC	FACTOR	LC	FACTOR	LC	FACTOR	LC	FACTOR	LC	FACTOR
ASCE ASD 1	DL	1								
ASCE ASD 2	DL	1	LL	1	LLS	1				
ASCE ASD 3 (a)	DL	1	RLL	1						
ASCE ASD 4 (a)	DL	1	LL	0.75	LLS	0.75	RLL	0.75		
ASCE ASD 5 (a)	DL	1	WL	0.6						
ASCE ASD 6 (a)	DL	1	WL	0.45	LL	0.75	LLS	0.75	RLL	0.75
ASCE ASD 6 (b)	DL	1	WL	0.45	LL	0.75	LLS	0.75		
ASCE ASD 7	DL	0.6	WL	0.6						
ASCE ASD 8 (a)	DL	1	ELX	0.7						
ASCE ASD 8 (b)	DL	1	ELZ	0.7						
ASCE ASD 9 (a)	DL	1	ELX	0.525	LL	0.75	LLS	0.75		
ASCE ASD 9 (b)	DL	1	ELZ	0.525	LL	0.75	LLS	0.75		
ASCE ASD 10 (a)	DL	0.6	ELX	0.7						
ASCE ASD 10 (b)	DL	0.6	ELZ	0.7						
ASCE ASD 8 (as-a)	DL	1	OMEGA*ELX	0.7						
ASCE ASD 8 (as-b)	DL	1	OMEGA*ELZ	0.7						
ASCE ASD 9 (as-a)	DL	1	OMEGA*ELX	0.525	LL	0.75	LLS	0.75		
ASCE ASD 9 (as-b)	DL	1	OMEGA*ELZ	0.525	LL	0.75	LLS	0.75		
ASCE ASD 10 (as-a)	DL	0.6	OMEGA*ELX	0.7						
ASCE ASD 10 (as-b)	DL	0.6	OMEGA*ELZ	0.7						

WELDING:

1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE D1.1-15.
2. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS.
3. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC PROCESS USING APPROVED ELECTRODES PER A.W.S. SPECIFICATIONS E70XX (LOW HYDROGEN ELECTRODES).
4. ALL WELDS SHALL HAVE A WELD CONTROLLED SEQUENCE AND TECHNIQUE IN ORDER TO MINIMIZE SHRINKAGE, STRESSES AND DISTORTION.
5. ALL ELECTRODES FILLER MATERIAL SHALL BE A MINIMUM OF E70XX.
6. WELDING OF SHEET METAL SHALL BE IN ACCORDANCE WITH A.W.S. D1.3.
7. SPECIAL INSPECTION IS REQUIRED FOR ALL WELDING.
8. ALL SHOP AND FIELD WELDING OF MOMENT CONNECTIONS OR MOMENT RESISTING FRAMES, AND ALL COLUMN SPLICE WELDS, SHALL BE TESTED AS PER C.B.C.
- A. ALL WELDS WITHIN MEMBERS DESIGNATED AS PART OF THE LATERAL FORCE RESISTING SYSTEM (LFRS) SHALL CONFORM TO THE DETAILING, MATERIALS, WORKMANSHIP, TESTING AND INSPECTION REQUIREMENTS PER AWS D1.8 AND AISC 341-16, AND SHALL USE A FILLER METAL WITH A CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LB AT 0° F.
- B. WHERE WELDS ARE DESIGNATED AS DEMAND CRITICAL, THEY SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CVN TOUGHNESS OF 20 FT-LB AT 20° F AND 40 FT-LB AT 70° F. SEE AWS D1.8 SECTION 6.3.6,
- C. WELDERS PERFORMING WELDING WITHIN THE "LFRS" SHALL BE QULIFIED IN ACCORDANCE WITH AWS D1.8 CHAPTER 5.

STEEL:

1. FABRICATION AND ERECTION TO CONFORM TO A.I.S.C. 360-16 "SPECIFICATION FOR THE STRUCTURAL STEEL BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCEPT AS OTHERWISE SHOWN OR SPECIFIED.
2. QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. ALL WELDING TO CONFORM TO THE LATEST ADOPTED EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE A.W.S. D1.1.
3. MATERIALS:
- ANGLES, CHANNELS, MISC. STEEL  
MISCELLANEOUS PLATES  
STRUCTURAL STEEL PIPES  
WELDING ELECTRODES
- ANCHOR BOLTS  
TYPICAL STEEL CONNECTION BOLTS  
MISCELLANEOUS BOLTS  
GALVANIZING  
RUST-INHIBITING PRIMER  
STEEL TUBING
- A.S.T.M. A36  
A.S.T.M. A-992 GRADE 50  
A.S.T.M. A53 TYPE E OR S, GRADE B  
A.W.S. STRUCTURAL STEEL E70XX,
- A.S.T.M. F-1554 GRADE 105  
A.S.T.M. F-3125 GRADE A325  
A.S.T.M. A-307  
A.S.T.M. A-123  
CC-M10  
A.S.T.M. A-500, GRADE B  
(Fy = 46 K.S.I.)

4. STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123 AND ANCHOR BOLTS SHALL BE GALVANIZED WITH A153 CLASS D OR PAINTED WITH ZINC RICH PRIMER COAT, UNDERCOAT AND FINISH COAT OR EQUIVALENT PAINT SYSTEM.
5. CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS.
6. BURNING OF HOLES IS NOT ALLOWED.
7. INSPECTION OF WELDING SHALL CONFORM TO C.B.C. REQUIREMENTS (CHAPTER 17A).
8. THE STRUCTURAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
9. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE.
10. ALL STRUCTURAL STEEL SURFACES TO RECEIVE SPRAY-APPLIED FIREPROOFING, OR TO BE ENCASED IN CONCRETE OR MASONRY, SHALL BE LEFT UNPAINTED.
11. STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC.
12. OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED.

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DIV. OF THE STATE ARCHITECT  
APP: 02-120552 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022



Architecture  
7400 Pedrick Court  
Bakersfield, CA 93313  
(661) 394-0053  
ron@rearchitect.net



CUSTOM CANOPIES INC.  
11815 BURKE STREET  
SANTA FE SPRINGS, CA 90670

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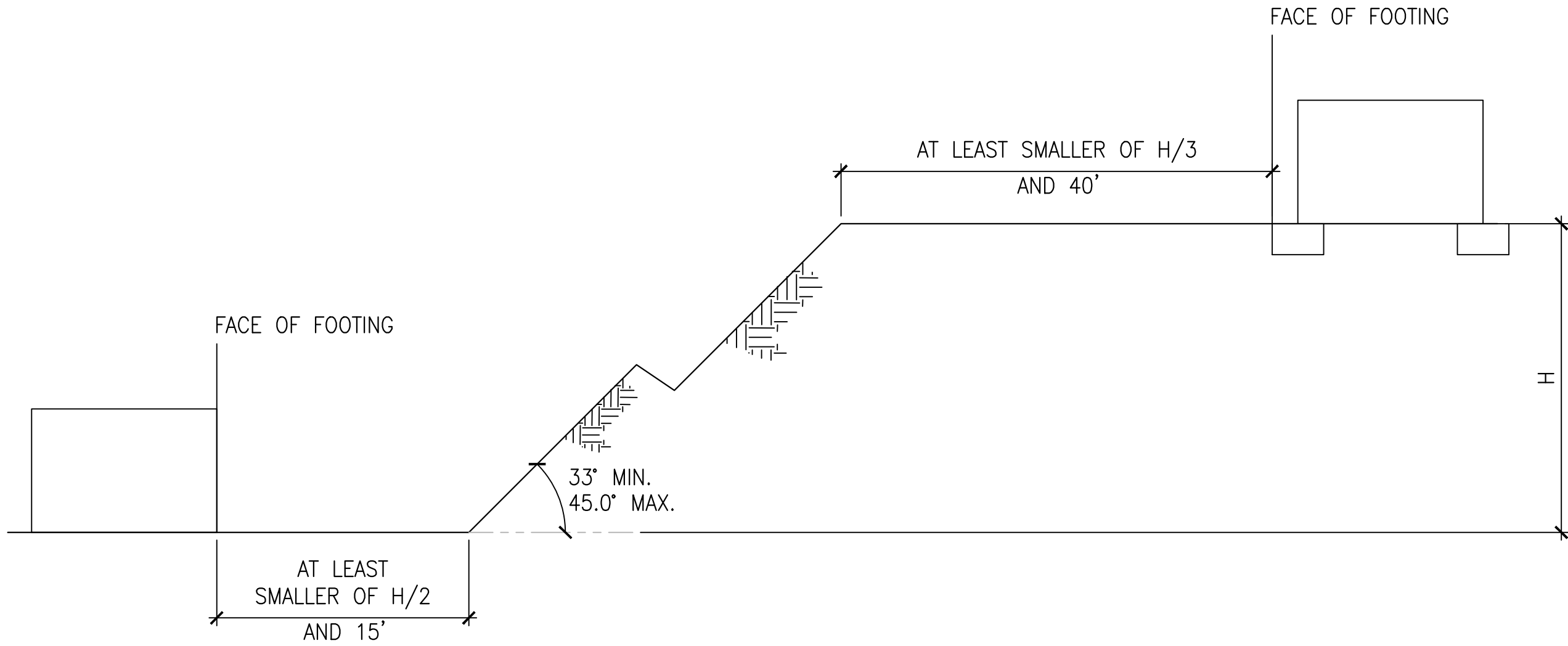
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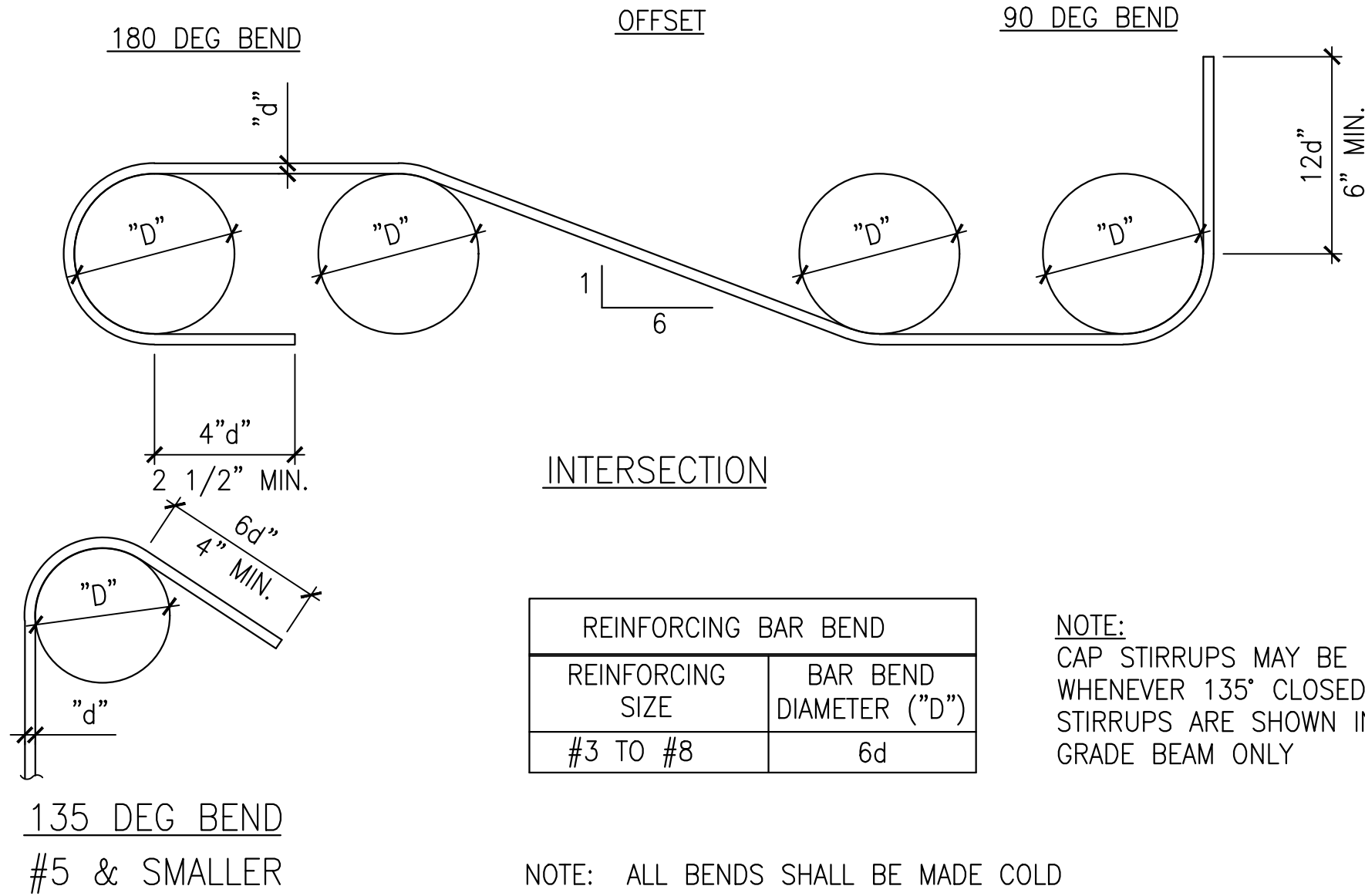


ABBREVIATIONS:

&	AND	KIPS	KILOPOUNDS (1,000 POUNDS)
@	AT	K.O.	KNOCK OUT
CL	CENTER LINE	LB	POUND
PL	PLATE, PROPERTY LINE	L.B.	LAG BOLT
A.B.	ANCHOR BOLT	L.F.	LINEAR FOOT
ADJ	ADJACENT	LG	LONG
A.F.F.	ABOVE FINISH FLOOR	LL	LIVE LOAD
ARCH'L	ARCHITECTURAL	L.L.H.	LONG LEG HORIZONTAL
BD	BOARD	L.L.V.	LONG LEG VERTICAL
BLD'G	BUILDING	L.S.	LAG SCREW
BLK	BLOCK	LT	LIGHT
BLK'G	BLOCKING	MAS	MASONRY
BLW	BELOW	MAT.	MATERIAL
BM	BEAM	MAX.	MAXIMUM
B.N.	BOUNDARY NAIL/SCREW	M.B.	MACHINE BOLT
BOT.	BOTTOM	MECH'L	MECHANICAL
BRG	BEARING	MEZZ.	MEZZANINE
B.S.	BOTH SIDE	MIN.	MINIMUM
BTWN	BETWEEN	M.H.	MANHOLE
C.B.	CARRIAGE BOLT	MANUF.	MANUFACTURER
C.F.	CUBIC FOOT	MTL.	METAL
CHAM	CHAMFER	N.S.	NEAR SIDE
C.I.	CAST-IRON	N.I.C.	NOT IN CONTRACT
C.I.P.	CAST-IN-PLACE	NOM.	NOMINAL
C.J.	CONTROL JOINT	N.T.S.	NOT TO SCALE
CLG	CEILING	O.C.	ON CENTER
CLK	CAULK	O.D.	OUTSIDE DIAMETER
CLK'G	CAULKING	O.H.	OPPOSITE HAND
CLR.	CLEAR	OPN'G	OPENING
C.M.U.	CONCRETE MASONRY UNIT	OPP	OPPOSITE
CNTR	CENTER	O.W.J.	OPEN WEB JOIST
COL	COLUMN	P.C.	PRECAST
CONC	CONCRETE	PERP.	PERPENDICULAR
CONN	CONNECTION	PLYWD	PLYWOOD
CONT	CONTINUOUS	PNL	PANEL
CNTRSINK	COUNTERSINK	PREFAB	PREFABRICATED
d	PENNY	P.S.F.	POUNDS PER SQUARE FOOT
DBL	DOUBLE	P.S.I.	POUNDS PER SQUARE INCHES
DEP	DEPRESSED	PT	POINT
DET	DETAIL	P.T.	PRESSURE TREATED
D.F.	DOUGLAS FIR	P.V.C.	POLYVINYL CHLORIDE
D.F.L.	DOUGLAS FIR/LARCH	RAD	RADIUS
DIA	DIAMETER	R.D.	ROOF DRAIN
DIAG	DIAGONAL	REF.	REFERENCE
DIAM.	DIMENSION	REINF.	REINFORCED / REINFORCING
D.L.	DEAD LOAD	REQ'D	REQUIRED
DN	DOWN	REV	REVISION
DIV	DIVISION	RF	ROOF
DR	DOOR	RFTR	RAFTER
DWG	DRAWING	R.H.	ROOF HATCH
DWL	DOWEL	RM	ROOM
EA	EACH	R.O.	ROUGH OPENING
E.F.	EACH FACE	R.S.	ROUGH SAWN
EL.	ELEVATION	SCHED.	SCHEDULE
ELEV.	ELEVATION / ELEVATOR	SECT.	SECTION
EMBED	EMBEDMENT	S.F.	SQUARE FOOT
E.N.	EDGE NAIL/SCREW	SHT	SHEET
EQ.	EQUAL	SHT'G	SHEETING
EQUIP	EQUIPMENT	SIM.	SIMILAR
E.S.	EACH SIDE	S.M.S.	SHEET METAL SCREW
E.W.	EACH WAY	SPEC.	SPECIFICATION
EXIST'G	EXISTING	SQ.	SQUARE
EXP	EXPANSION	S.S.	STAINLESS STEEL
EXT	EXTERIOR	STAGG.	STAGGERED
F.D.	FLOOR DRAIN	STD	STANDARD
FDN	FOUNDATION	STIFF.	STIFFENER
F.F.	FINISH FLOOR	STL	STEEL
FIN.	FINISH	STRUCT'L	STRUCTURAL
FLR.	FLOOR	STS	SELF TAPPING SCREW
F.N.	FIELD NAIL	SYM	SYMMETRICAL
F.O.	FACE OF	SYS	SYSTEM
FRM'G	FRAMING	T & B	TOP AND BOTTOM
F.S.	FAR SIDE	T & G	TONGUE AND GROOVE
FT	FEET / FOOT	TEMP	TEMPORARY
FTG	FOOTING	THK	THINK
GA	GAUGE	THKN'D	THICKENED
CALV	GALVANIZED	THRU	THROUGH
C.I.	GALVANIZED IRON	T.L.	TOTAL LOAD
CLB	GLU-LAMINATED BEAM	T.O.	TOP OF
GRD	GRADE	T.S.G.	TAPERED STEEL GIRDER
GYP	GYPSUM	TYP.	TYPICAL
H.D.	HOLDOWN	U.N.O.	UNLESS NOTED OTHERWISE
HDR	HEADER	U.T.	ULTRASONIC TESTING
HGR	HANGER	VERT.	VERTICAL
HORIZ	HORIZONTAL	W//	WITH
HRD	HARD	W/O	WITHOUT
H.S.B.	HIGH STRENGTH BOLT	WD	WOOD
HT.	HEIGHT	WIN	WINDOW
HVAC	HEATING, VENTILATION, & AIR CONDITIONING	W.P.	WATERPROOF / WORK POINT
IN.	INCH	W.P.J.	WEAKENED PLANE JOINT
INSP.	INSPECTION / INSPECTOR	WT.	WEIGHT
INT.	INTERIOR	W.W.F.	WELDED WIRE FABRIC
JST	JOIST	W.W.M.	WELDED WIRE MESH
JT	JOINT		



1



NOTE: ALL BENDS SHALL BE MADE COLD

2



3

IDENTIFICATION STAMP  
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APP: 02-120552 INC:  
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SS ☒ FLS ☒ ACS ☒  
DATE: 12/28/2022



Architecture  
7400 Pedrick Court  
Bakersfield, CA 93313  
(661) 394-0053  
ron@rearchitect.net



CUSTOM CANOPIES INC.  
11815 BURKE STREET  
SANTA FE SPRINGS, CA 90670

IDENTIFICATION STAMP DIVISION OF THE  
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PRE-CHECK PC DOCUMENT  
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DATE: 06/30/2021

PRECHECK FABRIC SHADE  
STRUCTURE

MANUFACTURER:

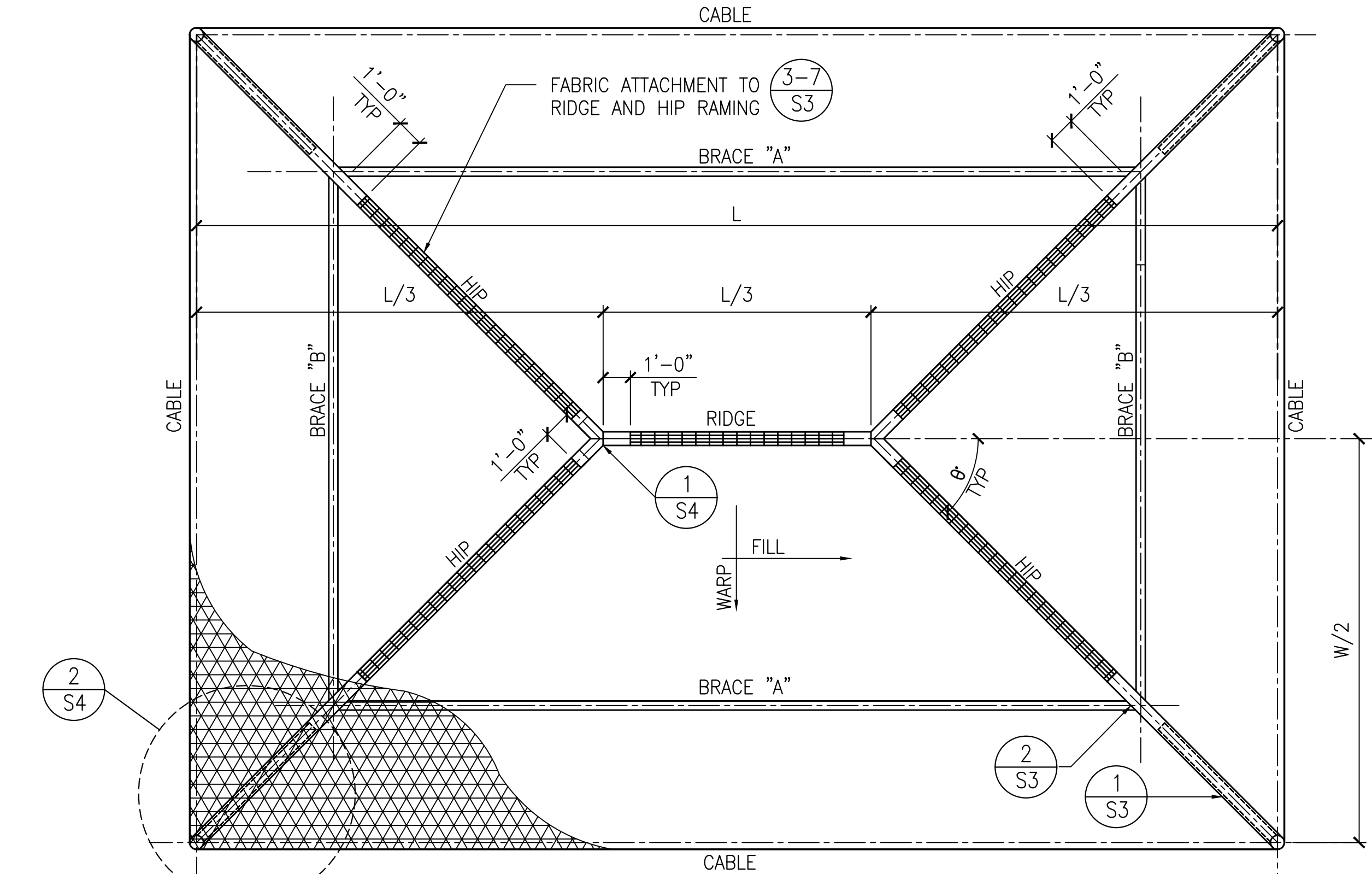
General Notes and  
Typical Details

Project #  
21-003  
Drawn By  
RWE  
Date  
6-17-21

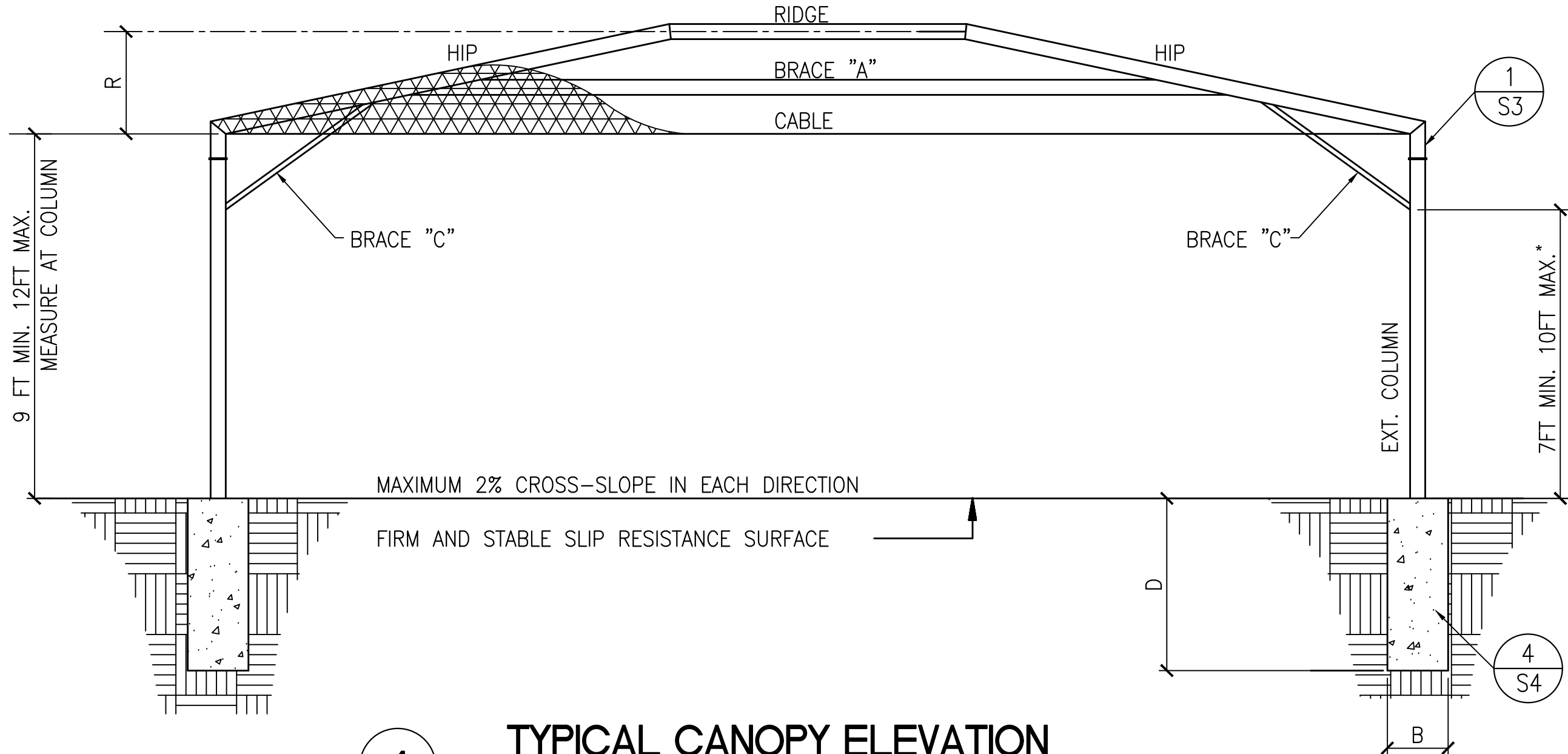
Sheet  
S1.3



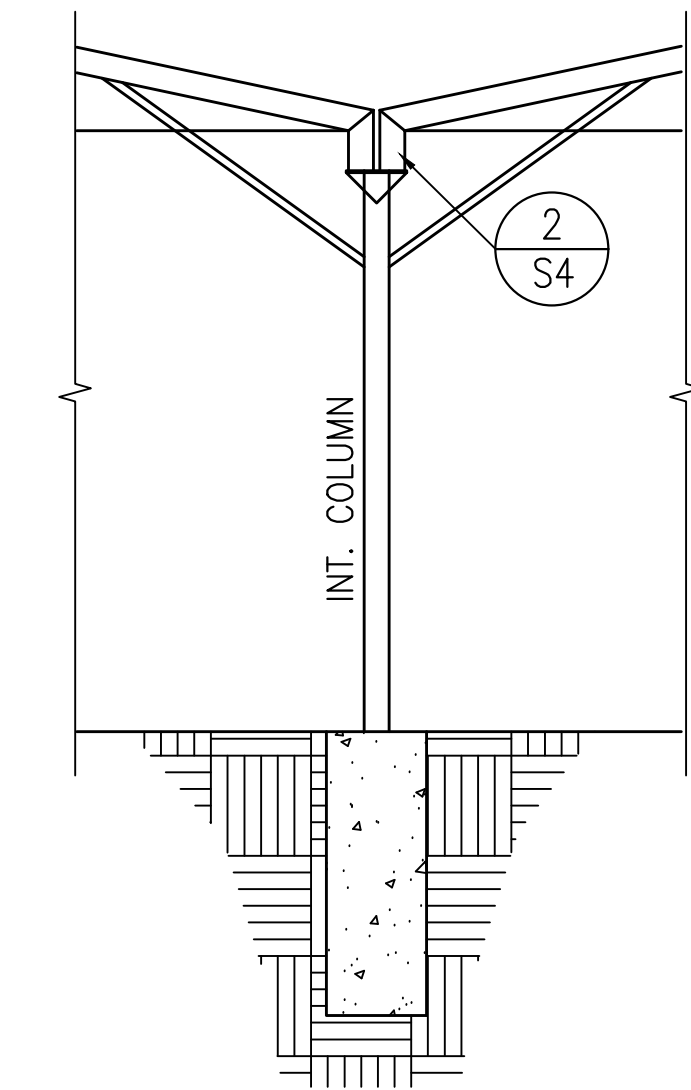
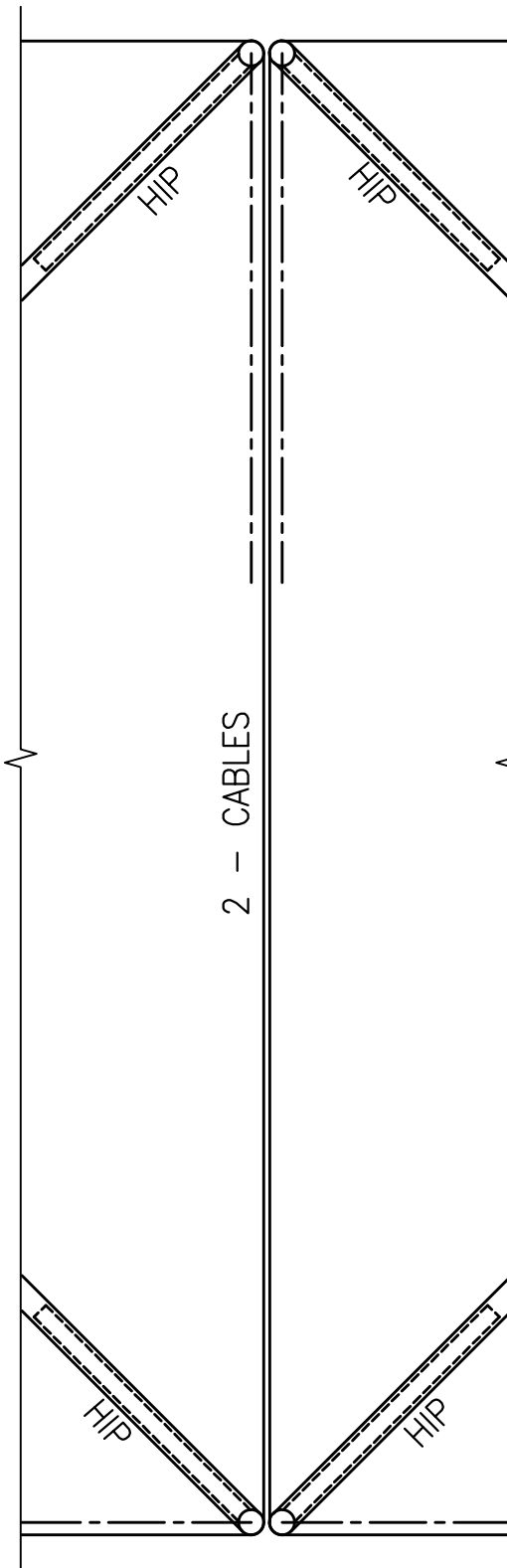
STRUCTURAL TUBE PROPERTIES							
SIZE	Ø	t des.	A	I	S	GAGE REFERENCE	
1 3/4"Ø X .109	1.75"	0.101"	.523in2	.179in4	.204in3	12GA	
2"Ø X .095	2"	0.088"	.529in2	.242in4	.242in3	13GA	
2 7/8"Ø X .120	2.25"	0.112"	.752in2	.431in4	.383in3	11GA	
2 7/8"Ø X .120	2.875"	0.101"	.880in2	.848in4	.590in3	12GA	
3"Ø X .120	2.875"	0.112"	.972in2	.929in4	.646in3	11GA	
5" XØ .180	3"	0.112"	1.016in2	1.061in4	.707in3	11GA	
3 1/2"Ø X .120	3.5"	0.112"	1.192in2	1.712in4	.978in3	11GA	
4"Ø X .180	4"	0.112"	1.368in2	2.587in4	1.294in3	11GA	
4 1/2"Ø X .120	4.5"	0.112"	1.544in2	3.718in4	1.653in3	11GA	
4 1/2"Ø X .180	4.5"	.167"	2.273in2	5.343in4	2.375in3	7GA	
5"Ø X .120	5"	0.112"	1.720in2	5.139in4	2.056in3	11GA	
5"Ø X .180	5"	.167"	2.536in2	7.412in4	2.965in3	7GA	
5" PHI x 0.25"	5"	0.25"	3.736in2	10.55in3	4.22in3	3GA	



3 TYPICAL CANOPY PLAN VIEW  
SCALE: NONE



4 TYPICAL CANOPY ELEVATION  
SCALE: NONE



\*: SHADE STRUCTURES FOR CLEAR COLUMN HEIGHTS OF 8'-2" MIN. FOR ACCESSIBLE PARKING AND ACCESS AISLES

CANOPY OPTIONS																			
L	W	R	θ	Ext. Col.	D"N"	D"C"	B	Int. Col.	D"N"	D"C"	B	HIP	RIDGE	BRACE A	BRACE B	CABLE	BOLT A	BOLT B	BOLT C
20'	10'	1.77'	36.9°	3" STD.	3.50'	2.75'	1.5'	3" STD.	4.50'	3.50'	1.5'	2 7⁄8"Ø x .109	2 8⁄8"Ø x .109	2 8⁄8"Ø x .109	2"Ø x .095	1⁄4"Ø	1⁄2"Ø	3⁄8"Ø	1⁄2"Ø
20'	15'	2.13'	48.4°	3" STD.	3.75'	3.00'	1.5'	3" STD.	4.75'	3.75'	1.5'	2 7⁄8"Ø x .109	2 8⁄8"Ø x .109	2 8⁄8"Ø x .109	2"Ø x .095	1⁄4"Ø	1⁄2"Ø	3⁄8"Ø	1⁄2"Ø
20'	20'	2.55'	56.3°	3" STD.	4.00'	3.25'	1.5'	3" STD.	5.00'	4.00'	1.5'	3 1⁄2"Ø x .120	3 3⁄8"Ø x .120	2 8⁄8"Ø x .109	2 7⁄8"Ø x .109	1⁄4"Ø	1⁄2"Ø	3⁄8"Ø	1⁄2"Ø
25'	25'	3.79'	56.3°	4" STD.	4.50'	3.50'	1.5'	4" STD.	5.75'	4.50'	1.5'	4"Ø x .120	4 1⁄2"Ø x .120	4 1⁄2"Ø x .120	3 1⁄2"Ø x .120	5⁄16"Ø	3⁄4"Ø	(2) 3⁄8"Ø	5⁄8"Ø
30'	20'	3.01'	45.0°	3½" STD.	4.50'	3.50'	1.5'	3½" STD.	5.75'	4.50'	1.5'	4"Ø x .120	4"Ø x .120	4"Ø x .120	2 7⁄8"Ø x .120	5⁄16"Ø	5⁄8"Ø	3⁄8"Ø	5⁄8"Ø
30'	25'	3.40'	51.3°	4" STD.	5.00'	4.00'	1.5'	4" STD.	6.25'	5.00'	1.5'	4 1⁄2"Ø x .120	4 1⁄2"Ø x .120	4 1⁄2"Ø x .120	3 1⁄2"Ø x .120	3⁄8"Ø	3⁄4"Ø	(2) 3⁄8"Ø	5⁄8"Ø
36'	18'	3.19'	36.9°	4" STD.	5.00'	4.00'	1.5'	4" STD.	6.50'	5.00'	1.5'	3 1⁄2"Ø x .120	3 1⁄2"Ø x .120	3 1⁄2"Ø x .120	2 7⁄8"Ø x .120	5⁄16"Ø	5⁄8"Ø	3⁄8"Ø	5⁄8"Ø
40'	20'	3.54'	36.9°	4" STD.	5.50'	4.50'	1.5'	4" STD.	7.00'	5.50'	1.5'	4 1⁄2"Ø x .180	4 1⁄2"Ø x .120	4 1⁄2"Ø x .120	3 1⁄2"Ø x .120	3⁄8"Ø	3⁄4"Ø	(2) 3⁄8"Ø	5⁄8"Ø
30'	30'	3.83'	56.3°	5" STD.	5.75'	4.75'	1.5'	5" STD.	7.25'	5.75'	1.5'	5"Ø x .180	5"Ø x .120	4.5"Ø x .120	4.5"Ø x .120	3⁄8"Ø	3⁄4"Ø	(2) 3⁄8"Ø	5⁄8"Ø
40'	30'	4.27'	48.4°	5" STD.	6.00'	4.50'	2.00'	5" STD.	8.00'	5.50'	2.0'	5"Ø x .250	5"Ø x .120	5"Ø x .250	5"Ø x .120	3⁄8"Ø	3⁄4"Ø	(2) 3⁄8"Ø	5⁄8"Ø

TABLE NOTES:  
n = NONCONSTRAINED CONDITION  
(SEE DETAIL 4B ON SHEET S4)  
c = CONSTRAINED CONDITION  
(SEE DETAIL 4A ON SHEET S4)  
DIMENSIONS "L" OR "W" MAY BE REPEATED IN ONE DIRECTION ONLY.



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PRECHECK FABRIC SHADE  
STRUCTURE

MANUFACTURER:

CUSTOM CANOPIES  
2019 CBC DWGS

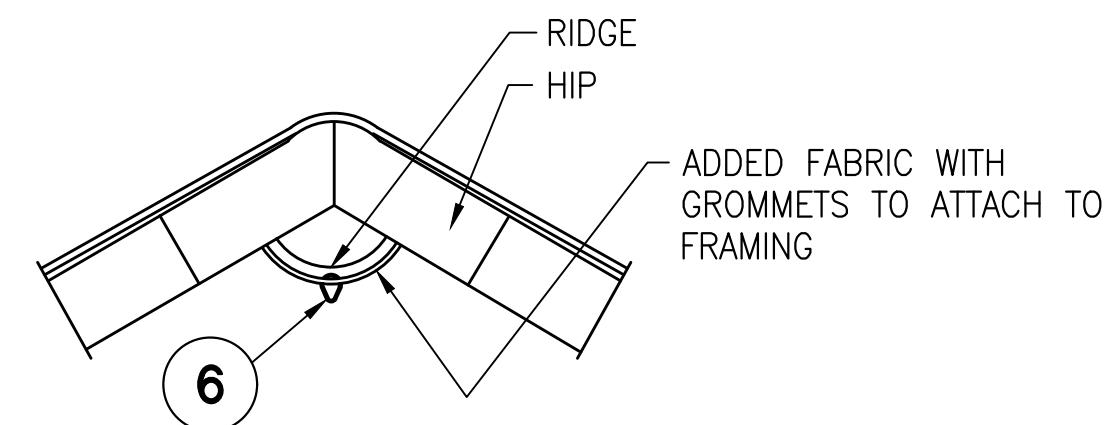
Project #  
21-003

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RWE

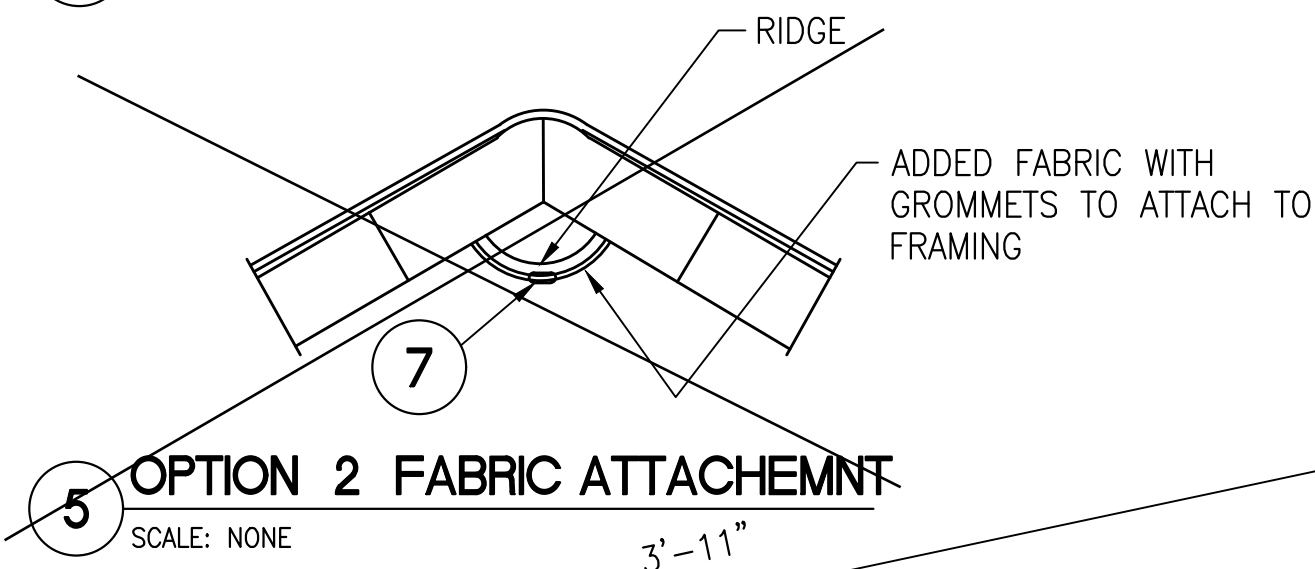
Date  
6-17-21

S2





4 **OPTION 1 FABRIC ATTACHEMNT**  
SCALE: NONE



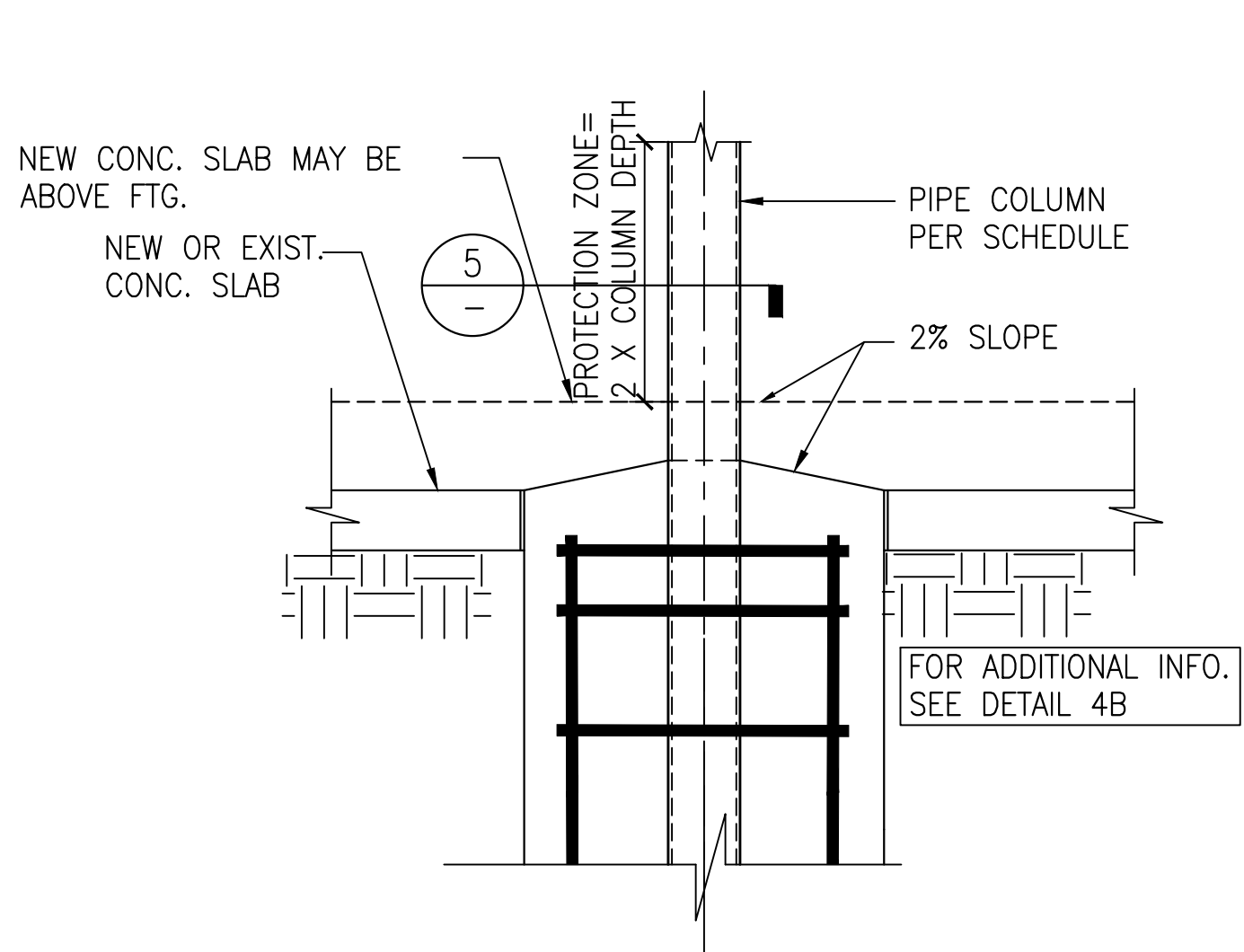
~~5~~ **OPTION 2 FABRIC ATTACHEMENT**  
SCALE: NONE 3'-11"



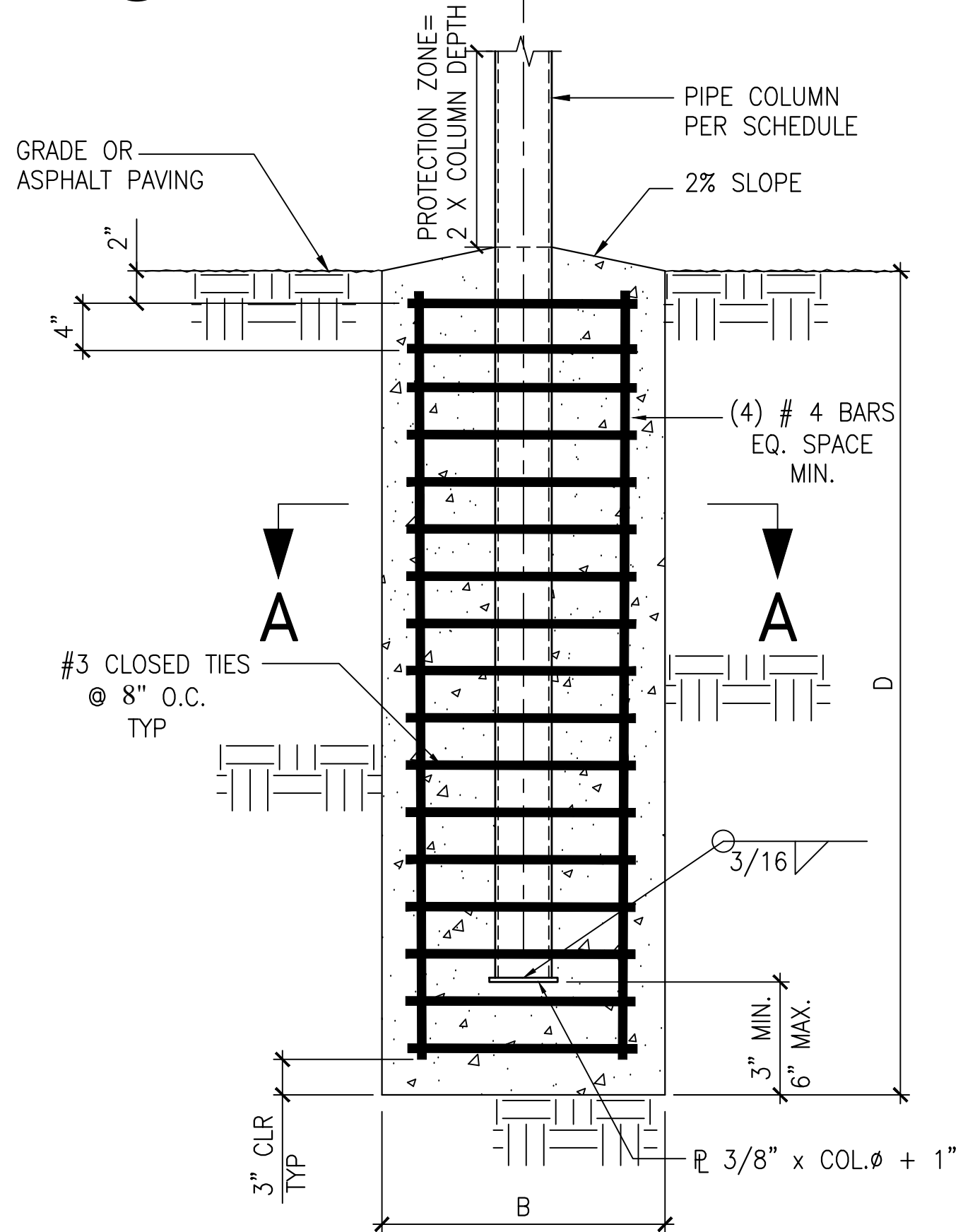
**1 TYPICAL EXT. COL. - HIP CONNECTION**  
SCALE 3" = 1'-0"



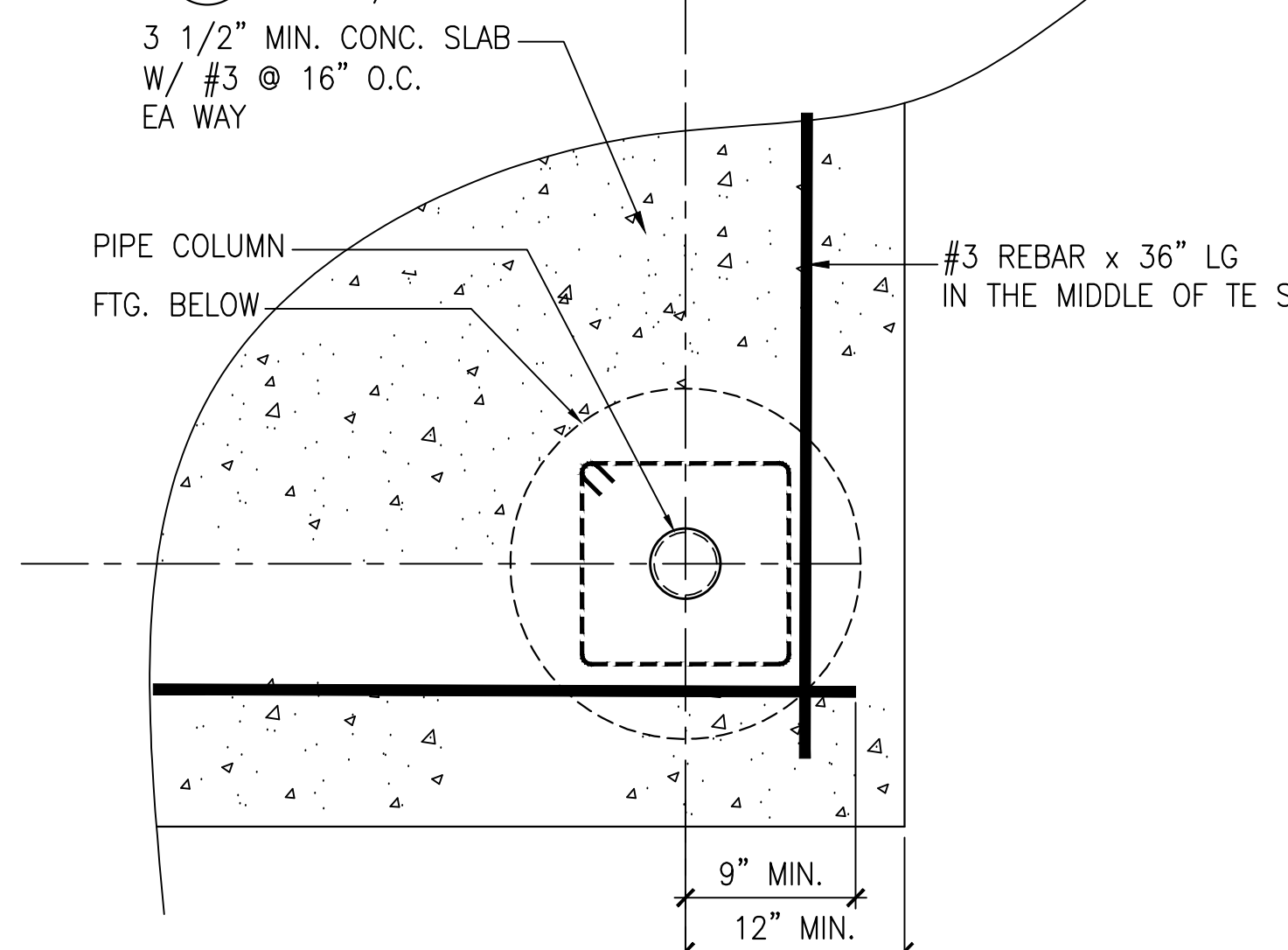




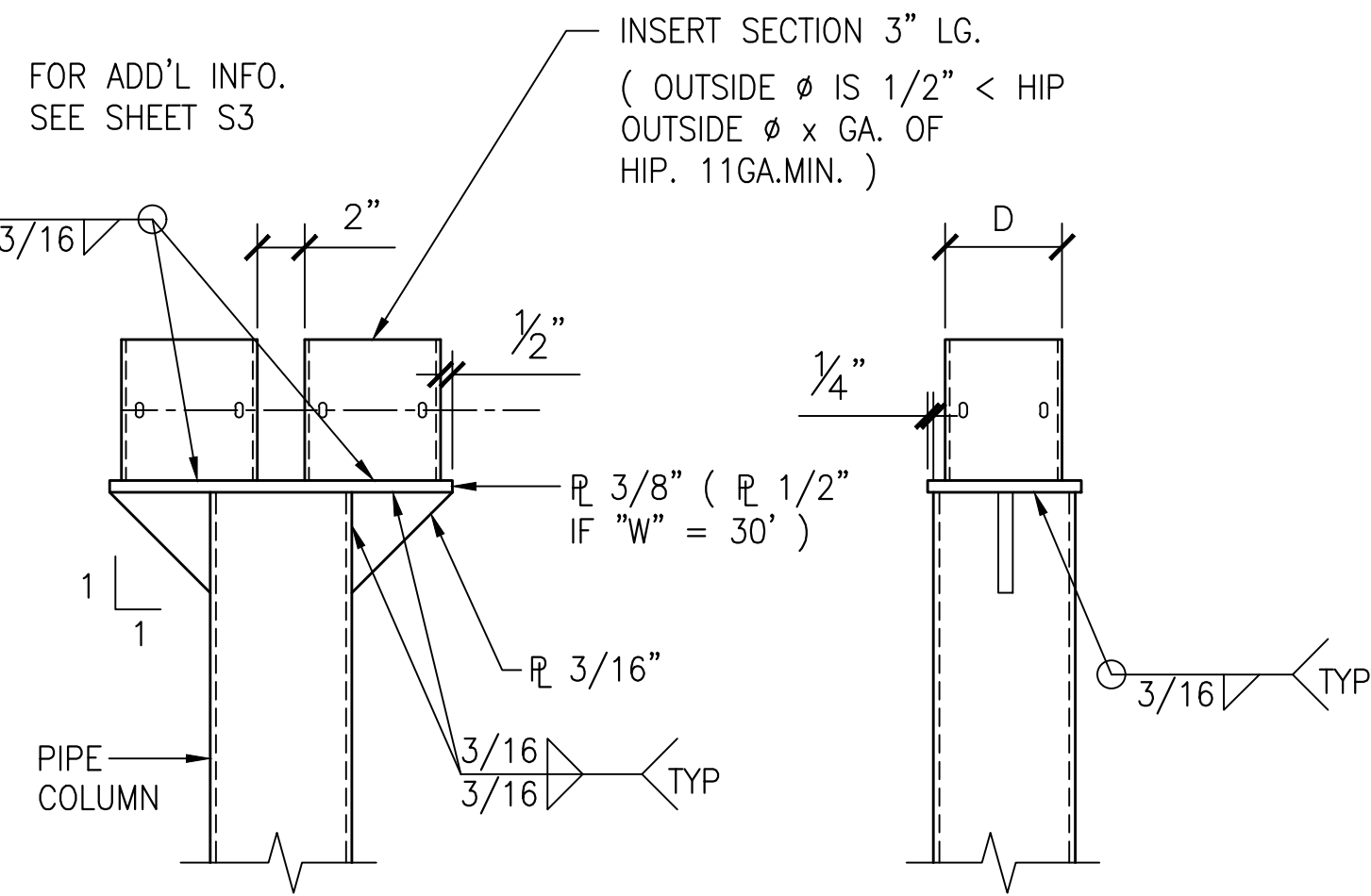
**4A TYPICAL CONSTRAINED FOOTING DETAIL**  
SCALE 1 1/2" = 1'-0"



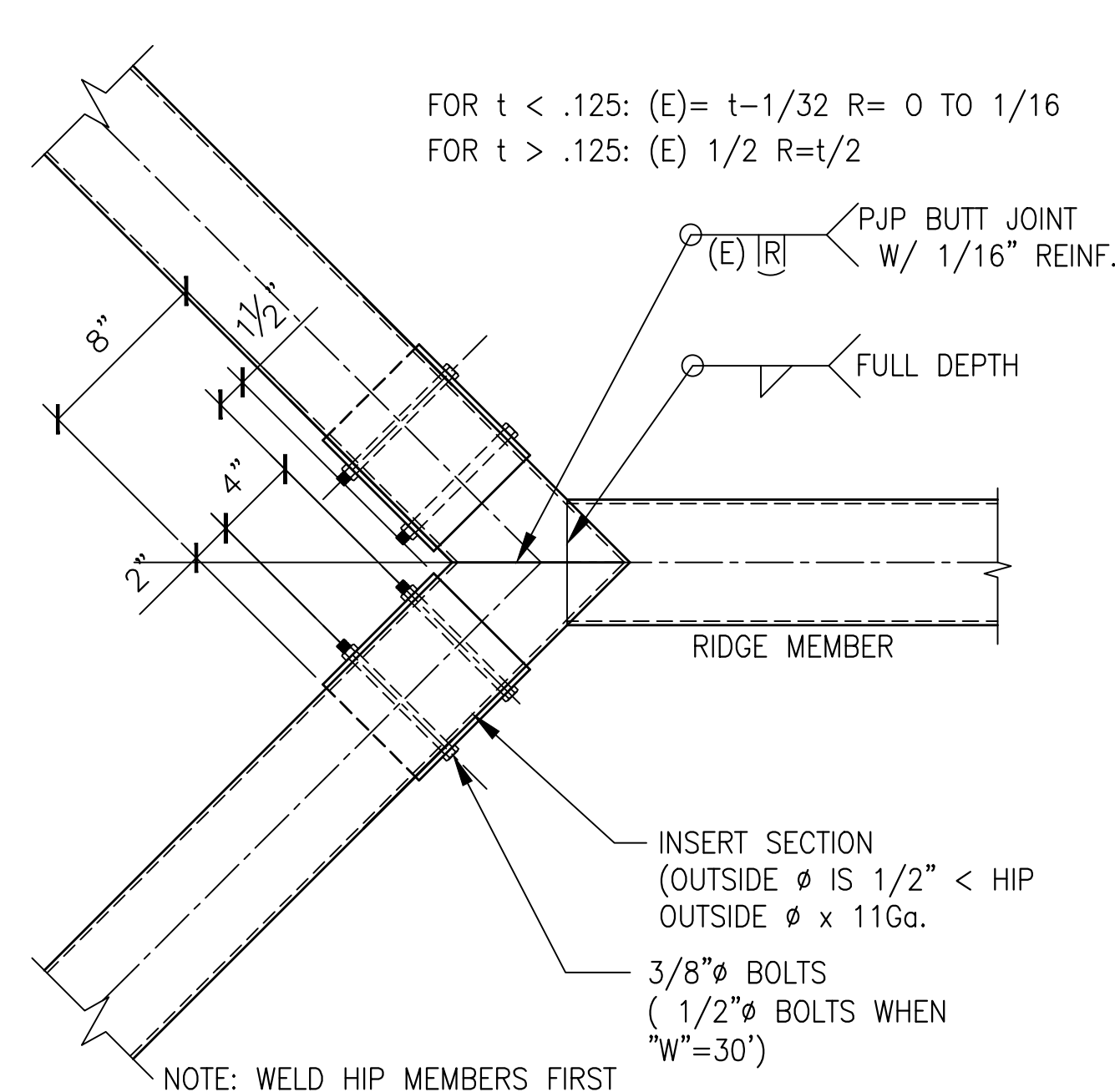
**4B TYPICAL NON-CONSTRAINED FOOTING DETAIL**  
SCALE 1 1/2" = 1'-0"



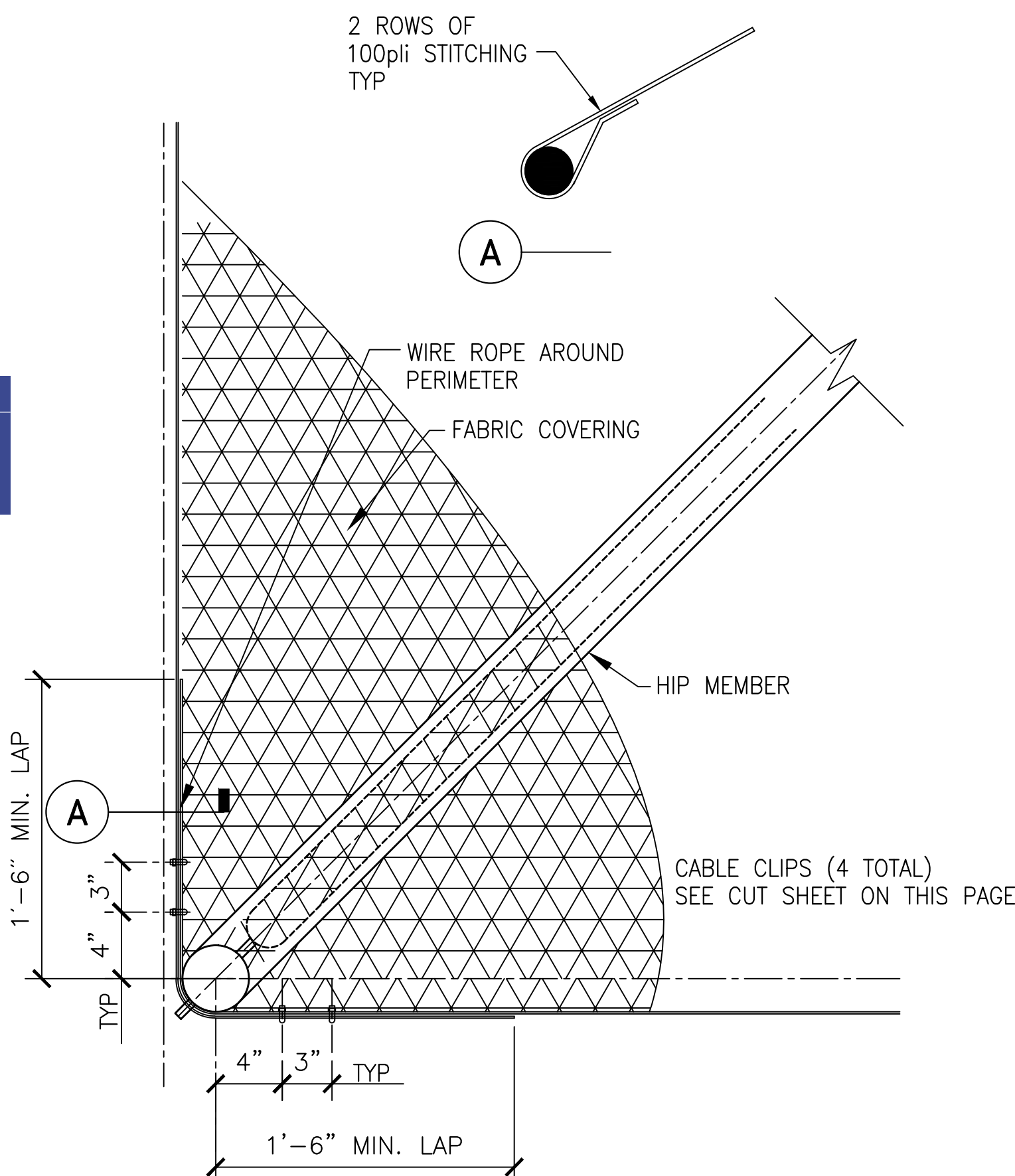
**5 TYPICAL CONSTRAINED FOOTING DETAIL**  
SCALE 1 1/2" = 1'-0"



**3 TYPICAL INT. COL. - HIP CONNECTION**  
SCALE 3" = 1'-0"



**1 TYPICAL HIP - RIDGE CONNECTION**  
SCALE 1 1/2" = 1'-0"



**2 TYPICAL CABLE CONNECTION**  
SCALE 1 1/2" = 1'-0"

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## Cable

### Stainless Steel Cables

**Type 302/304** - Type 302/304 stainless steel is the standard alloy for cable. It has about the same strength as galvanized aircraft cable and much better corrosion resistance. It has excellent corrosion resistance in most industrial atmospheres, and good corrosion resistance in sea water and marine atmospheres. Type 302/304 also has very good corrosion resistance to many chemicals including nitric acid.

**Type 305** - Type 305 has better corrosion resistance than Type 302 with 10-15% lower strength. This alloy is primarily used for nonmagnetic cable applications. When sufficiently cold worked, this alloy does not become magnetic.

**Type 316** - Type 316 is the standard high corrosion resistant alloy for cable.

It is resistant to many of the chemicals in the paper pulp, photographic, food processing and textile industries. It has the best pitting resistance in marine use of the commonly used stainless steels. The breaking strength is 10-15% below Type 302. Excellent scale resistance allows its continuous use at temperatures up to 900°F.

**Corrosion Resistance** - Chromium in stainless steels is the primary reason for their corrosion resistance. The chrome protects the surface by quickly forming an impervious, tenacious oxide film. This acts as a protective barrier against attack. Nickel improves the oxide forming ability of chromium and also gives the stainless steel a broader range of corrosion resistance.

Diameter (in)	Breaking Strength (lbs)	Wt (lbs) M Feet
<b>1 x 7 TYPE 302/304 - Stainless Steel Strand</b>		
.012	25	0.33
.015	40	0.55
.018	55	0.73
.021	80	1.00
.024	100	1.30
.027	125	1.70
.132	185	2.30
.038	250	3.50
.044	375	5.50
.116	500	8.50
.064	800	14.00
.082	1200	20.00
.164	1600	27.00
.118	2100	35.00
.032	3300	55.00
.316	4700	77.00
.732	6300	103.00
.14	8500	135.00
.932	10700	170.00
.516	13200	212.00
.318	18000	282.00
.716	29000	416.00
.12	33700	535.00
<b>1 x 19</b>		
.132	185	2.5
.064	335	5.5
.116	500	8.5
.064	800	14.0
.032	1200	20.0
.084	1600	27.0
.118	2100	35.0
.032	3300	55.0
.316	4700	77.0
.732	6300	103.0
.14	8500	135.0
.932	10700	170.0
.516	13200	212.0
.318	18000	282.0
.716	29000	416.0
.12	33700	535.0
<b>3 x 3 TYPE 302/304 - Stainless Steel Cable</b>		
.021	40	0.5
.132	110	1.7
.064	650	9.7
<b>6 x 19 IWRC</b>		
.716	16300	356.0
.12	22800	458.0
.0916	28500	590.0
.518	39000	715.0
.34	49600	922.0
.718	66500	1430.0
.1	85400	1870.0
.118	106400	2400.0
.114	129400	2900.0
<b>6 x 37 IWRC</b>		
.316	3000	65.0
.14	5400	100.0
.08	8300	180.0
.318	11700	240.0
.716	15800	330.0
.12	20800	430.0
.916	25600	540.0
.518	31400	670.0
.34	44400	960.0

Diameter (in)	Breaking Strength (lbs)	Wt (lbs) M Feet
<b>6 x 37 IWRC (continued)</b>		
.718	59700	1310.0
.1	77300	1700.0
.118	96600	2160.0
.114	118400	2650.0
<b>6 x 4 Non-Formed</b>		
.118	700	18.0
.016	1600	40.0
.14	3500	70.0
.516	4900	110.0
.318	6900	160.0
.716	9300	210.0
.12	12000	280.0
.916	15000	350.0
.518	18400	430.0
<b>7 x 3</b>		
.018	40	0.5
.024	60	1.0
.031	110	1.7
<b>7 x 7</b>		
.031	115	2.0
.034	270	4.2
.116	480	7.5
.064	650	11.0
.032	920	16.0
.764	1260	22.0
.118	1700	28.5
.032	2400	43.0
.016	3700	62.0
.732	5000	83.0
.14	6400	106.0
.092	7800	134.0
.516	9000	167.0
.318	12000	236.0
.716	15900	342.0
.12	21300	440.0
.916	26900	550.0
.518	32500	680.0
.316	36000	770.0
<b>7 x 19</b>		
.364	270	4.2
.116	480	7.5
.031	920	16.0
.764	1260	22.0
.118	1700	28.5
.032	2400	43.0
.016	3700	62.0
.732	5000	83.0
.14	6400	106.0
.092	7800	134.0
.516	9000	167.0
.318	12000	236.0
.716	15900	342.0
.12	21300	440.0
.916	26900	550.0
.518	32500	680.0
.316	36000	770.0

Diameter (in)	Breaking Strength (lbs)	Wt (lbs) M Feet
<b>3 x 3 TYPE 302/304 - Stainless Steel Cable</b>		
.021	40	0.5
.132	110	1.7
.064	650	9.7
<b>6 x 19 IWRC</b>		
.716	16300	356.0
.12	22800	458.0
.0916	28500	590.0
.518	39000	715.0
.34	49600	922.0
.718	66500	1430.0
.1	85400	1870.0
.118	106400	2400.0
.114	129400	2900.0
<b>6 x 37 IWRC</b>		
.316	3000	65.0
.14	5400	100.0
.08	8300	180.0
.318	11700	240.0
.716	15800	330.0
.12	20800	430.0
.916	25600	540.0
.518	31400	670.0
.34	44400	960.0

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1-19

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**rea**  
architect  
RON EDWARDS

**Architecture**  
7400 Pedrick Court  
Bakersfield, CA 93313  
(661) 394-0053  
ron@reaarchitect.net



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2019 CBC DWGS

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**RWE**  
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**6-17-21**

**S4**

