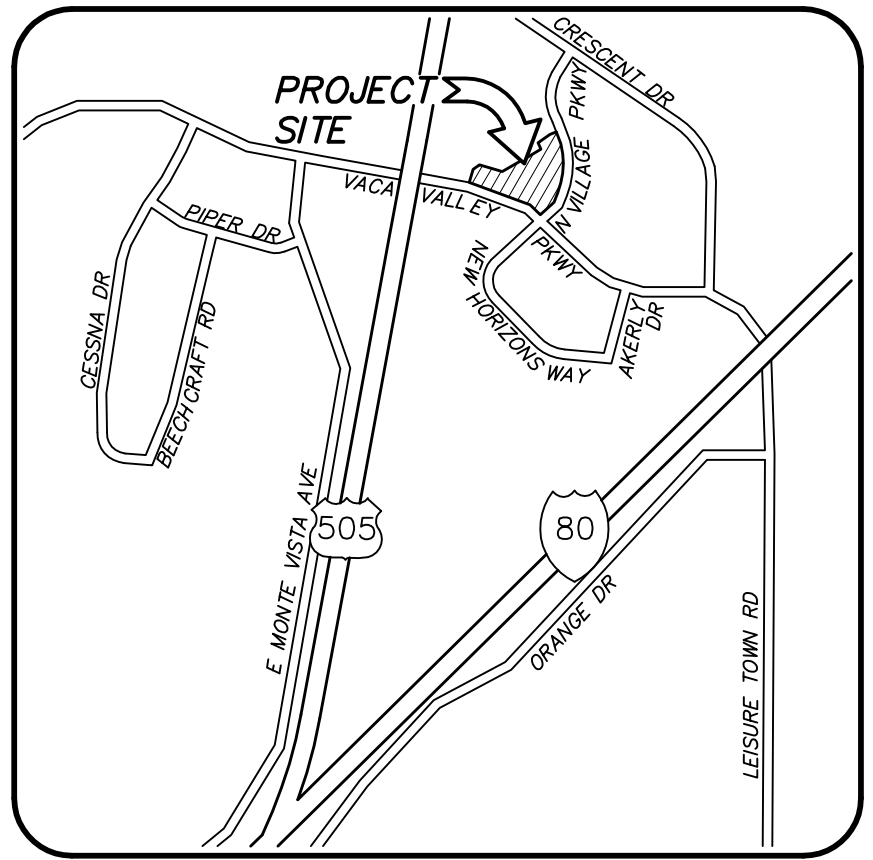


ACCESSIBILITY IMPROVEMENTS
SCC VACAVILLE ANNEX
VACAVILLE, CA
APN 0133-190-520



VICINITY MAP

NOT TO SCALE

SHEET INDEX

- C1. COVER SHEET/OVERALL SITE PLAN
C2. ACCESSIBLE DETAILS
C3. SITE/ACCESSIBILITY PLAN
C4. DEMOLITION/GRADING DETAILS
C5. PARTIAL TOPOGRAPHIC SURVEY

LEGEND

- △ RANDOM CONTROL FOR SURVEY
---GB--- EXISTING GRADE BREAK
---TOP--- EXISTING TOP OF SLOPE
---TOE--- EXISTING TOE OF SLOPE
---95-96---
---97-98---
---99-100--- EXISTING CONTOURS
--- EXISTING PROPERTY LINE
--- EXISTING ADJACENT PROPERTY LINE
--- EASEMENT
⊗ EXISTING WATER VALVE
⊗ EXISTING PAVER PATH
⊗ PROPOSED PAVER PATH
---EX8"SS--- EXISTING SANITARY SEWER SIZE & SLOPE DIRECTION
---EX6"W--- EXISTING WATER MAIN SIZE
○ EXISTING PEDESTAL LIGHT

ABBREVIATIONS

- CB CATCH BASIN
CBC LATEST ADDITION OF THE CALIFORNIA BUILDING CODE
CL CENTERLINE
CV CHECK VALVE
CONC CONCRETE
DDCV DOUBLE DETECTOR CHECK VALVE
DI DRAINAGE INLET
EBOX ELECTRIC BOX
ELEC ELECTRIC
EMTR ELECTRIC METER
EP EDGE OF PAVEMENT
EX/EXIST EXISTING
FDC FIRE DEPARTMENT CONNECTION
FH FIRE HYDRANT
FL FLOWLINE
GB GRADE BREAK
G/O GRIND AND OVERLAY
ICV IRRIGATION CONTROL VALVE
LIP LIP OF GUTTER
LS LAND SURVEYOR
MON STREET MONUMENT
OG ORIGINAL GROUND
PIV POST INDICATOR VALVE
PUE PUBLIC UTILITY EASEMENT
PL PROPERTY LINE
SCC SOLANO COMMUNITY COLLEGE
SD STORM DRAIN
SDE STORM DRAIN EASEMENT
SL STREET LIGHT
SLB STREET LIGHT BOX
SS SANITARY SEWER
SSCO SANITARY SEWER CLEANOUT
SSMH SANITARY SEWER MANHOLE
SVC SERVICE
SW SIDEWALK
TFC TOP FACE OF CURB
TRANS TRANSFORMER
TS&B TRAFFIC SIGNAL AND BOX
UEV UNDERGROUND ELECTRIC VAULT
UTIL UTILITY
W WATER
WBOX WATER BOX
WM WATER METER
WS WATER SERVICE
WV WATER VALVE

OWNER:

Solano Community College District
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T 415.331.7655
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PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

FCE
FOULKE CIVIL ENGINEERING, INC.
Civil Engineering Land Surveying Planning
4777 Mangala Boulevard, Fairfield, CA 94534
(707)864-0794 Fax (707)864-0795 e-mail: fce@foulke.com

STAMP



SHEET LEGEND:

COVER SHEET /
OVERALL SITE PLAN

ISSUE/REVISION:

NO.	DATE	DESCRIPTION
04/25/2017		ISSUE FOR DD 100%
06/06/2017		ISSUE FOR CD 50%
06/30/2017		ISSUE FOR CD 60%
07/20/2017		ISSUE FOR CD 90%
07/31/2017		ISSUE FOR CD 100%
10/18/2017		DSA BACKCHECK

KEY PLAN:

FILE: 48-C1

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-116082
AC, JCC, FLS, GBC, ssPVL
DATE: 10/31/2017

SCALE: 1"=30'

DATE: 10/18/17

PROJECT NO: 17-010

PERMIT APPLICATION NO:

SHEET NO:

C1

OF 5

PARKING NOTES:

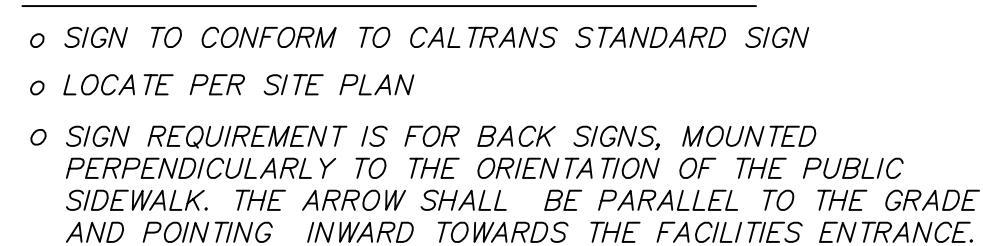
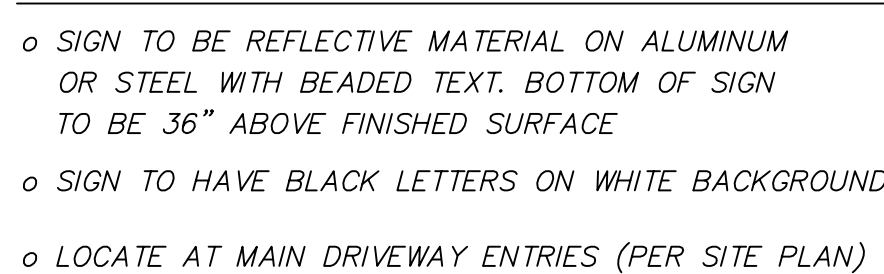
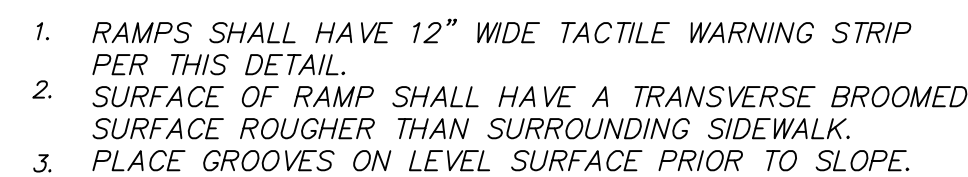
TOTAL SPACES	296
REQUIRED ACCESSIBLE SPACES PER CBC 11B-208.2	7
ACCESSIBLE SPACES PROVIDED	8
REQUIRED VAN ACCESSIBLE SPACES PER CBC 11B-208.2.4	2
VAN ACCESSIBLE SPACES PROVIDED	2

NOTE:

PATH OF TRAVEL AS SHOWN ON PLANS IS BARRIER FREE WITHOUT ABRUPT VERTICAL CHANGES EXCEEDING 1/4 INCH AT 1:2 MAXIMUM SLOPE AND IS WITHOUT LEVEL CHANGES EXCEEDING 1/4 INCH (CBC 11B-303 & CBC 11B-403.4). PATH OF TRAVEL SHALL BE A MINIMUM 48 INCH WIDE (CBC 11B-403.5.1EX3) SLIP RESISTANT SURFACE AT 5% MAXIMUM SLOPE AND 2% MAXIMUM CROSS SLOPE (CBC 11B-403.3). PASSING SPACES (CBC 11B-403.5.3) OF 60 INCH BY 60 INCH MINIMUM SHALL BE LOCATED NO MORE THAN 200 FEET APART. WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE A 60 INCH LENGTH OF LEVEL (CBC 11B-403.7) NO MORE THAN 400 FEET APART. PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80 INCH MINIMUM HEIGHT (CBC 11B-307.4) WITH NO PROTRUDING OBJECTS (CBC 11B-307) GREATER THAN 4 INCH PROJECTION FROM WALL ABOVE 27 INCH AND LESS THAN 80 INCH. THERE SHALL BE NO ELEVATION DROPS GREATER THAN 4 INCHS AT THE EDGE OF WALK OR LANDING UNLESS IDENTIFIED BY A GUARD, A HANDRAIL, OR A WARNING CURB AT LEAST 6 INCHS ABOVE THE WALK (CBC 11B-303.5).



- CITY OF VACAVILLE STD. DWG. 3-15A



ISSUE/REVISION:		
NO:	DATE:	DESCRIPTION:
04/25/2017		ISSUE FOR DD 100%
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06/30/2017		ISSUE FOR CD 60%
07/20/2017		ISSUE FOR CD 90%
07/31/2017		ISSUE FOR CD 100%
10/18/2017		DSA BACKCHECK

FILE: 48-C1

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

02-116082

AC JCC FLS GBC ss PVL

DATE: 10/31/2017

OF 5

OWNER:

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

CA ARCHITECTS
475 Gate Five Road, Suite 107
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PROJECT:

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(Annex) Renovation Project

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Civil Engineering Land Surveying Planning
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(707)864-0794 Fax (707)864-0795 e-mail: foukce@gmail.com

STAMP



SHEET LEGEND:

DEMOLITION /
GRADING DETAILS

ISSUE/REVISION:		
NO.	DATE	DESCRIPTION
04/25/2017		ISSUE FOR DD 100%
06/06/2017		ISSUE FOR CD 50%
06/30/2017		ISSUE FOR CD 60%
07/20/2017		ISSUE FOR CD 90%
07/31/2017		ISSUE FOR CD 100%
10/18/2017		DSA BACKCHECK

KEY PLAN:

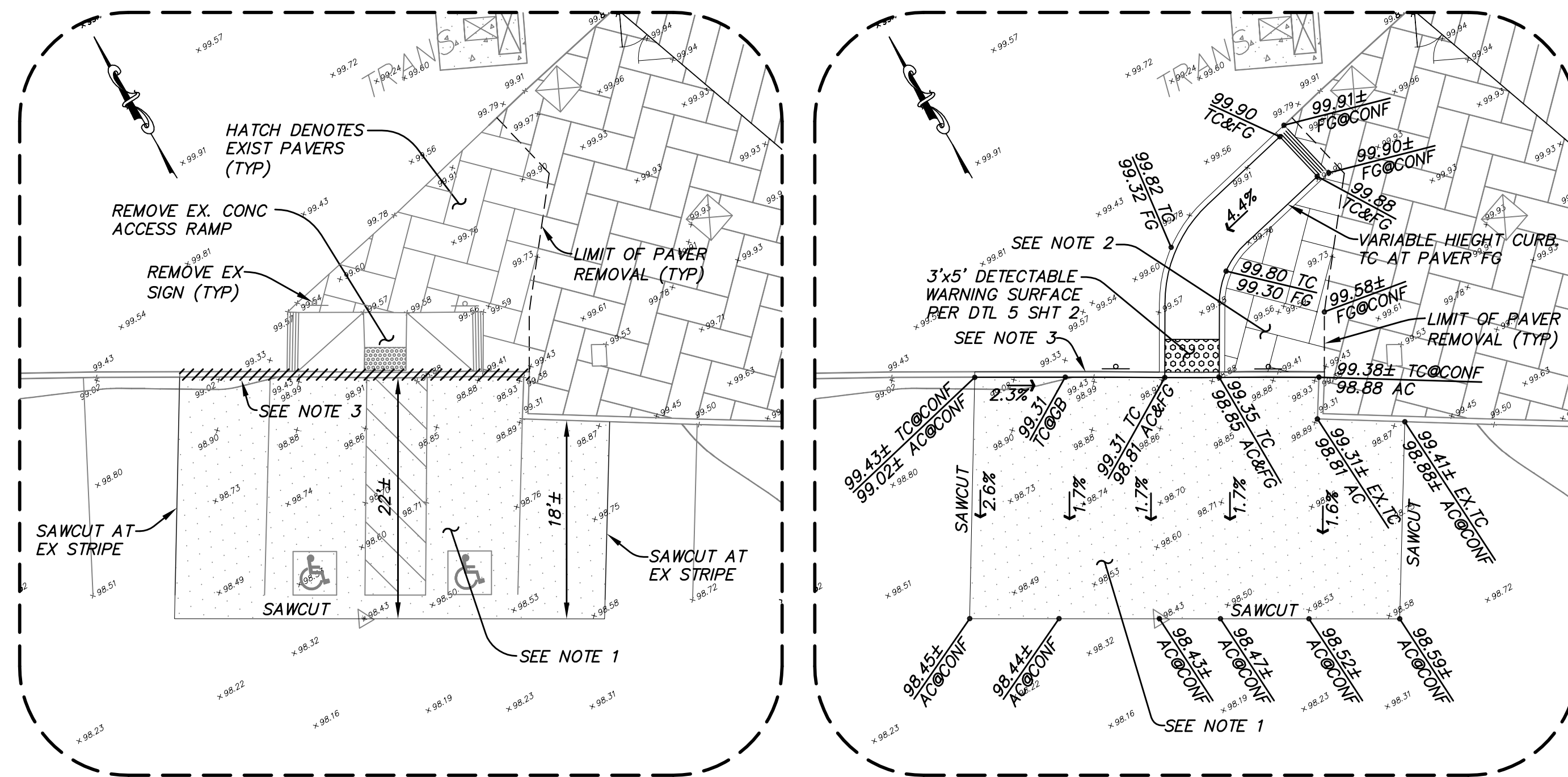
FILE: 49-C1
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-116082
AC, JCC, FLS, GBC, ssPVL
DATE: 10/31/2017

SCALE: 1"=10'
DATE: 10/18/17
PROJECT NO: 17-010
PERMIT APPLICATION NO:

SHEET NO:

C4

OF 5



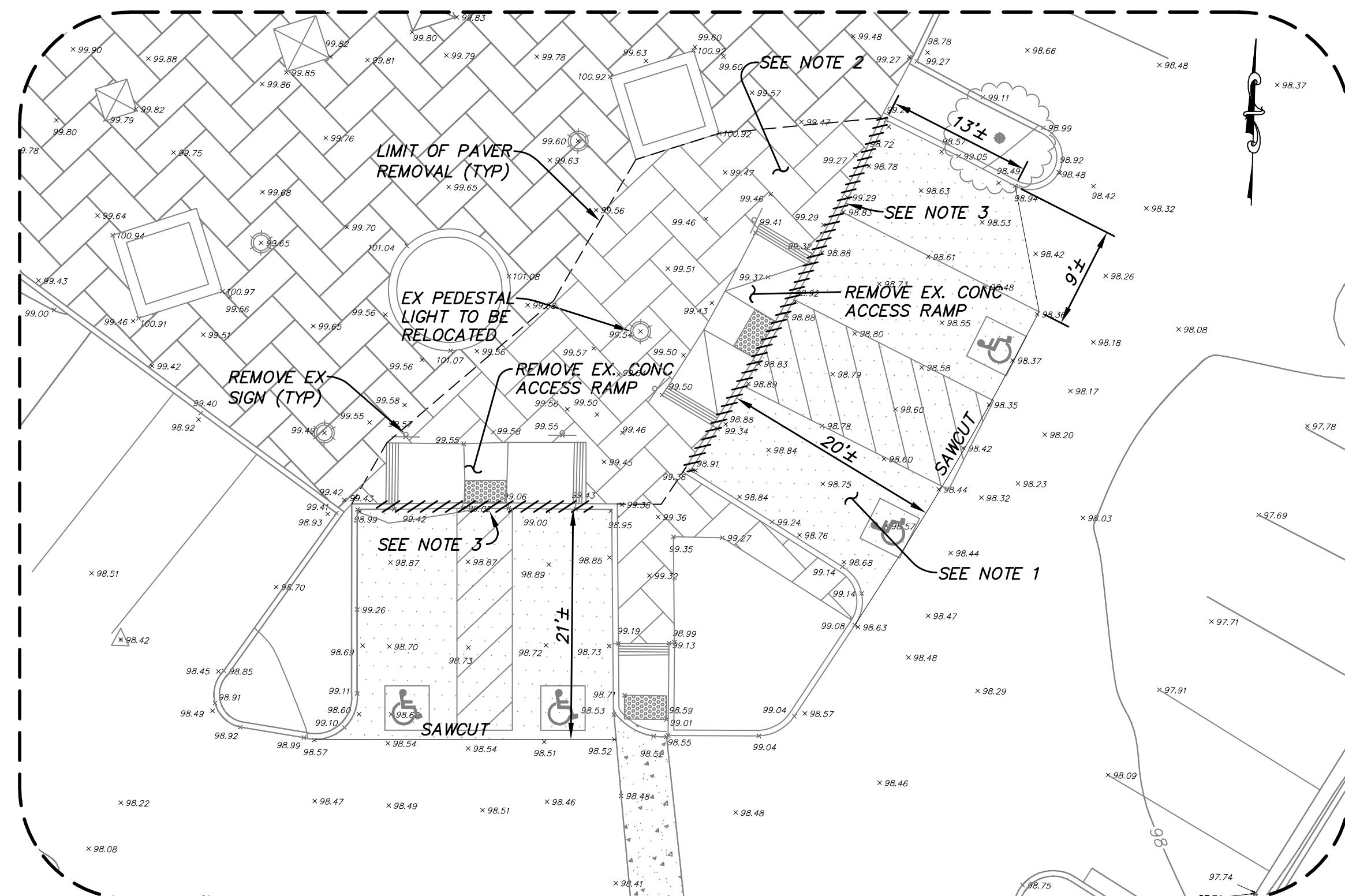
DEMOLITION PLAN

ACCESSIBLE RAMP DETAIL "A"

SCALE: 1"=10'

NOTES:

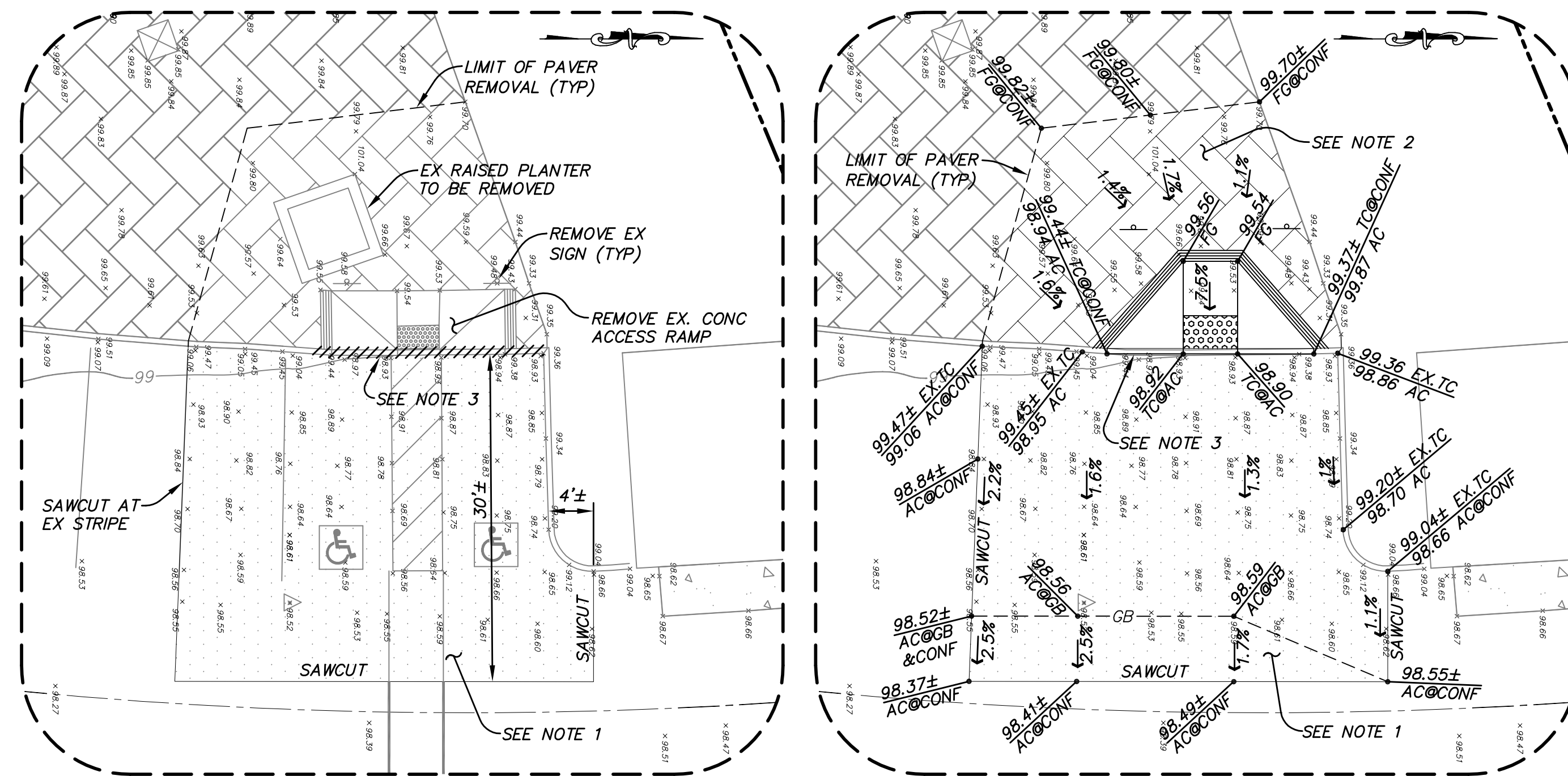
1. REMOVE EXISTING AC PAVING TO SAWCUT LINE NOTED. RE-GRADE AND COMPACT BASE ROCK TO 4 INCHES BELOW DESIGN PAVEMENT GRADE. PLACE 4 INCHES HOT MIX ASPHALT IN TWO 2 INCH LIFTS PER SPECIFICATIONS.
2. REPLACE AND/OR RE-USE UNDAMAGED PAVERS TO MATCH EXISTING MANUFACTURES RECOMMENDATIONS. CONTRACTOR TO CUT PAVERS AS REQUIRED AT CONFORM LOCATIONS TO NEW CONCRETE WORK RESULTING IN PROFESSIONAL APPEARANCE.
3. REMOVE EXISTING CONCRETE CURB AND REPLACE WITH CURB PER DETAIL 6 SHEET C2. Side flare shall be 10% max at all ramps (typ)



DEMOLITION PLAN

ACCESSIBLE RAMP DETAIL "C"

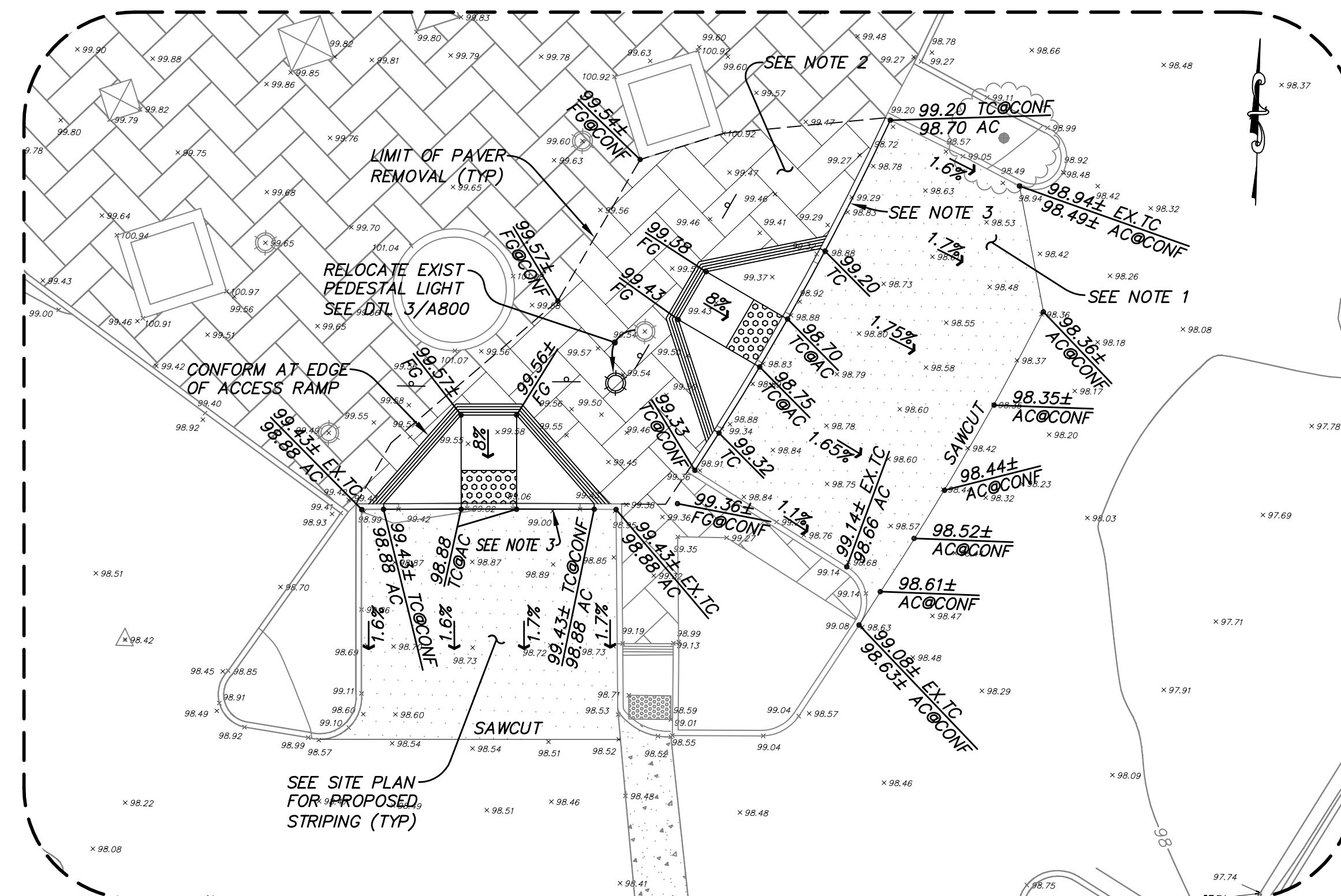
SCALE: 1"=10'



DEMOLITION PLAN

ACCESSIBLE RAMP DETAIL "B"

SCALE: 1"=10'



NOTE: SEE SHEET 3 FOR STRIPING & SIGNAGE
GRADING PLAN



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(707)864-0794 Fax (707)864-0793 e-mail: folkce@gmail.com

STAMP



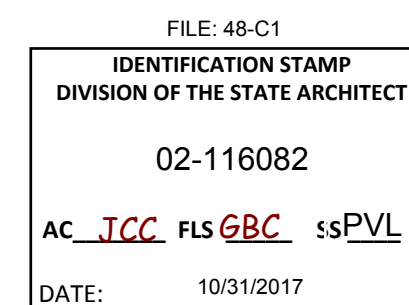
SHEET LEGEND:

**PARTIAL
TOPOGRAPHIC SURVEY**

ISSUE/REVISION:

NO.	DATE	DESCRIPTION
04/25/2017		ISSUE FOR DD 100%
06/06/2017		ISSUE FOR CD 50%
06/30/2017		ISSUE FOR CD 60%
07/20/2017		ISSUE FOR CD 90%
07/31/2017		ISSUE FOR CD 100%
10/18/2017		DSA BACKCHECK

KEY PLAN:



SCALE: 1"=10'

DATE: 10/18/17

PROJECT NO: 17-010

PERMIT APPLICATION NO:

SHEET NO:

C5

OF 5

Fire Flow Analysis for 200 N. Village Parkway, Annex Building:

1. Water Information from Vacaville Utilities Dept. on October 19, 2016:

a) Static Pressure:	S= 91 PSI
b) Residual Pressure:	R1= 74 PSI
c) Flow:	Q1= 4,500 GPM
d) Residual Pressure required for fire flow:	R2= 20 PSI

2. Q = Calculated Available Fire Flow at R2=20 PSI:

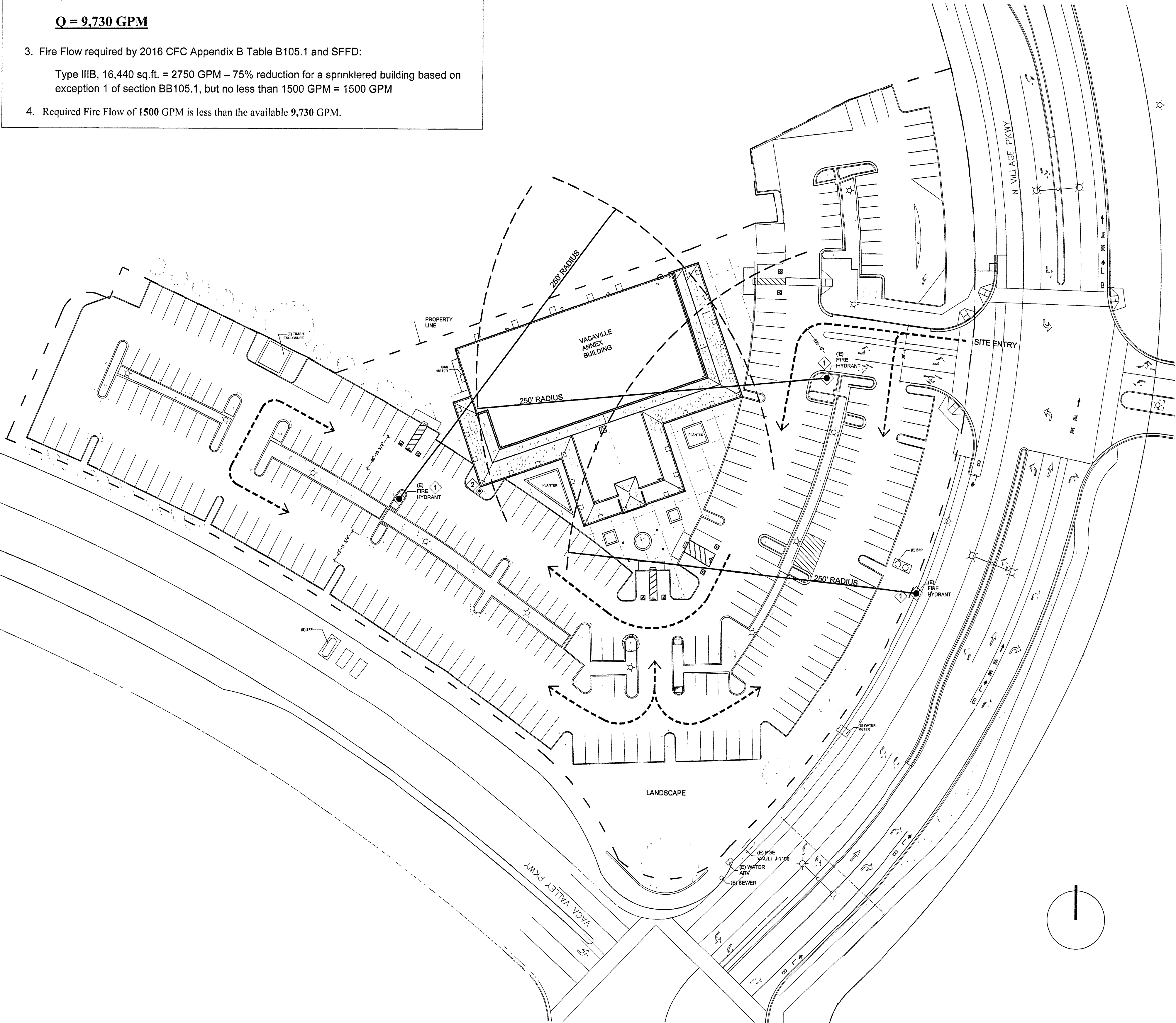
$Q = Q1(S-R2)^{.54}/(S-R1)^{.54}$
 $Q = 4,500(91-20)^{.54}/(91-74)^{.54}$
 $Q = 4,500(71^{.54})/(17^{.54})$
 $Q = 4,500(9.99)/4.62$
 $Q = 44,955/4.62$

Q = 9,730 GPM

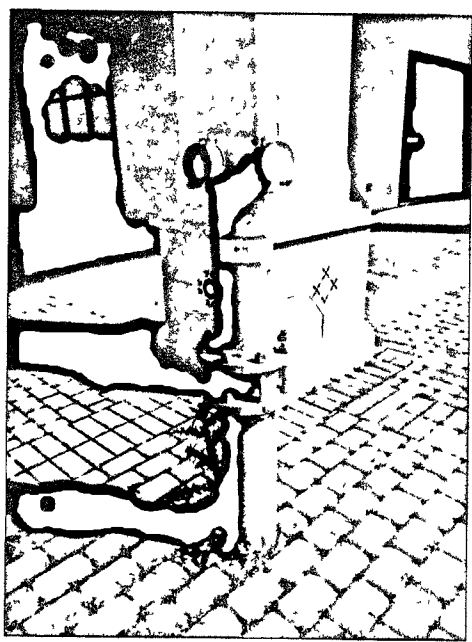
3. Fire Flow required by 2016 CFC Appendix B Table B105.1 and SFFD:

Type IIIB, 16,440 sq.ft. = 2750 GPM – 75% reduction for a sprinklered building based on exception 1 of section BB105.1, but no less than 1500 GPM = 1500 GPM

4. Required Fire Flow of 1500 GPM is less than the available 9,730 GPM.



1 FIRE HYDRANT



2 POST INDICATOR VALVE / FD CONNECTION

GENERAL NOTE:
SEE FP-1 FOR WATER FLOW INFORMATION

SHEET NOTES:

- 1 FIRE HYDRANT LOCATION
- 2 POST INDICATOR VALVE / FD CONNECTION (SEE FP FOR DETAILS)

BUILDING DATA	FIRE ACCESS LEDGED
BUILDING TYPE: V-B FULLY SPRINKLED	FIRE HYDRANT
BUILDING AREA: 16,400 SF 1-STORY	FIRE LANE ACCESS

ADSA

810

LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-01.

PROJECT INFORMATION				
School District/Owner:	Solano Community College District			
Project Name/School:	Vacaville Classroom Building (Annex) Renovation Project			
Project Address:	200 North Village Parkway Vacaville, CA 95688			
LOCAL FIRE AUTHORITY (LFA)				
LFA Agency Name:	Vacaville Fire Dept			
LFA Reviewer Name:	Robert Wilson			
Email:	Robert.Wilson@cityofvacaville.com			
Telephone Number:	707.449.5465			
I have reviewed and responded to the applicable items for this project as listed below.				
Note: Only sign this form when it is merged onto the site plan. A loose form is not acceptable to DSA.				
LFA Reviewer's Signature:	Date: 7/31/17			
Review Key: "Y" = Complete with LFA requirements "N" = Not approved (complete Section 8) "NA" = Not applicable to the project "NR" = LFA elects not to review				
Description	Y	N	NA	NR
1 Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is acceptable.				X
2 Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5	X			
3 Fire hydrant location and distribution complies with the California Fire Code (or see # 4).	X			
4 Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means				X
Signature of School District Official: _____ Date: _____				
Print the School District Official's Name: _____				
5 The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction	X			
6 The location(s) of the detector check valve assembly meet the requirements of this jurisdiction	X			
7 Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A) Check type if "Yes" <input type="checkbox"/> Moderate <input type="checkbox"/> High <input type="checkbox"/> Very High <input type="checkbox"/> WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				X
COMMENTS (note deficiencies): Fire alarm by city meet city specs.				

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F 415.331.7656

PROJECT

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM

STAMP

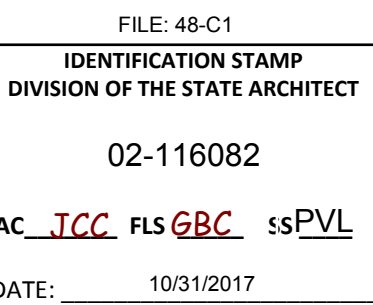


SHEET LEGEND

ISSUE/REVISION:

NO.	DATE	DESCRIPTION:
04/25/2017		ISSUE FOR DD 100%
06/06/2017		ISSUE FOR CD 50%
06/30/2017		ISSUE FOR CD 60%
07/20/2017		ISSUE FOR CD 100%

KEY PLAN

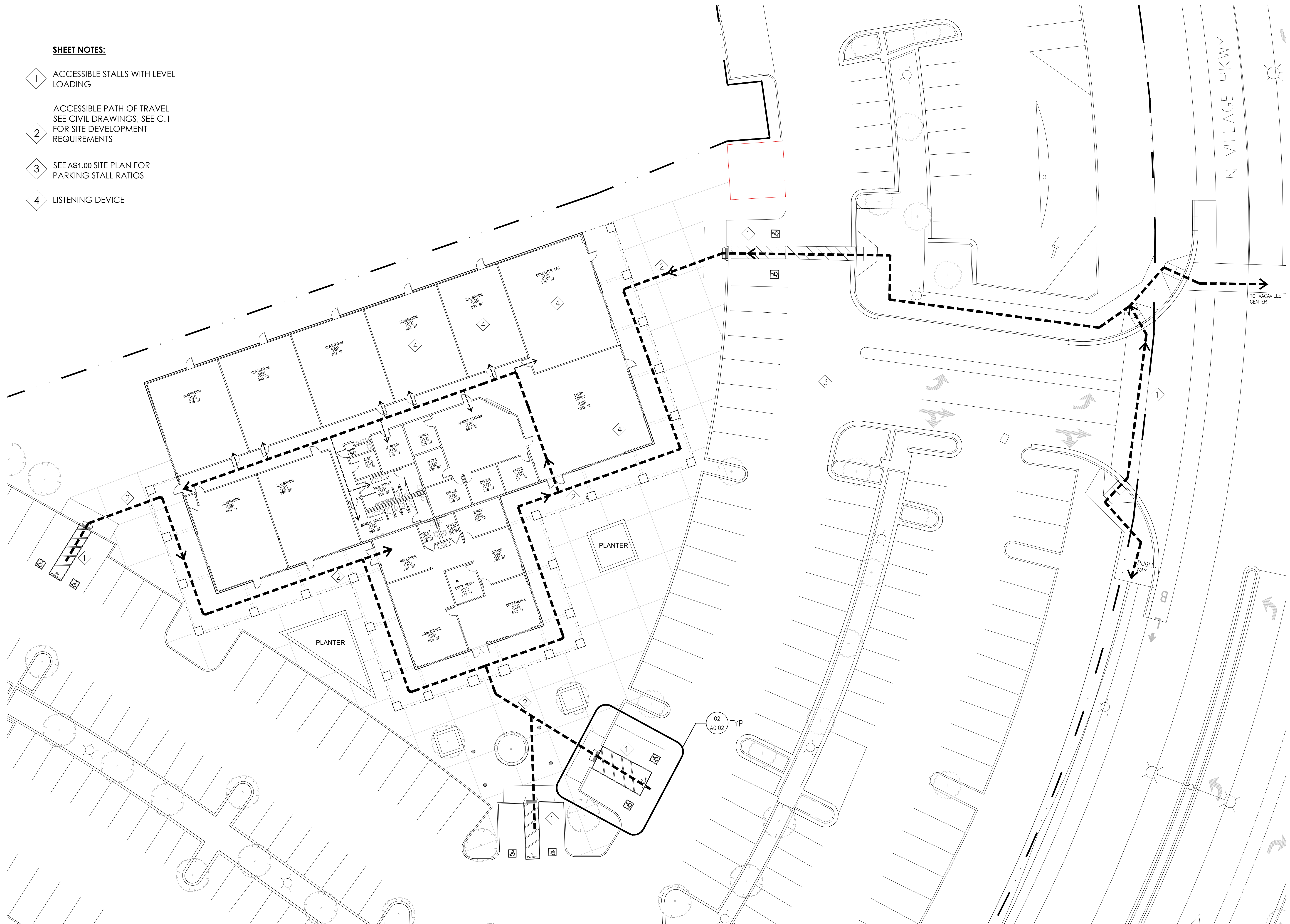


SCALE:
DATE:
PROJECT NO.
PERMIT APPLICATION NO.

SITE PLAN - LFA

A0.01

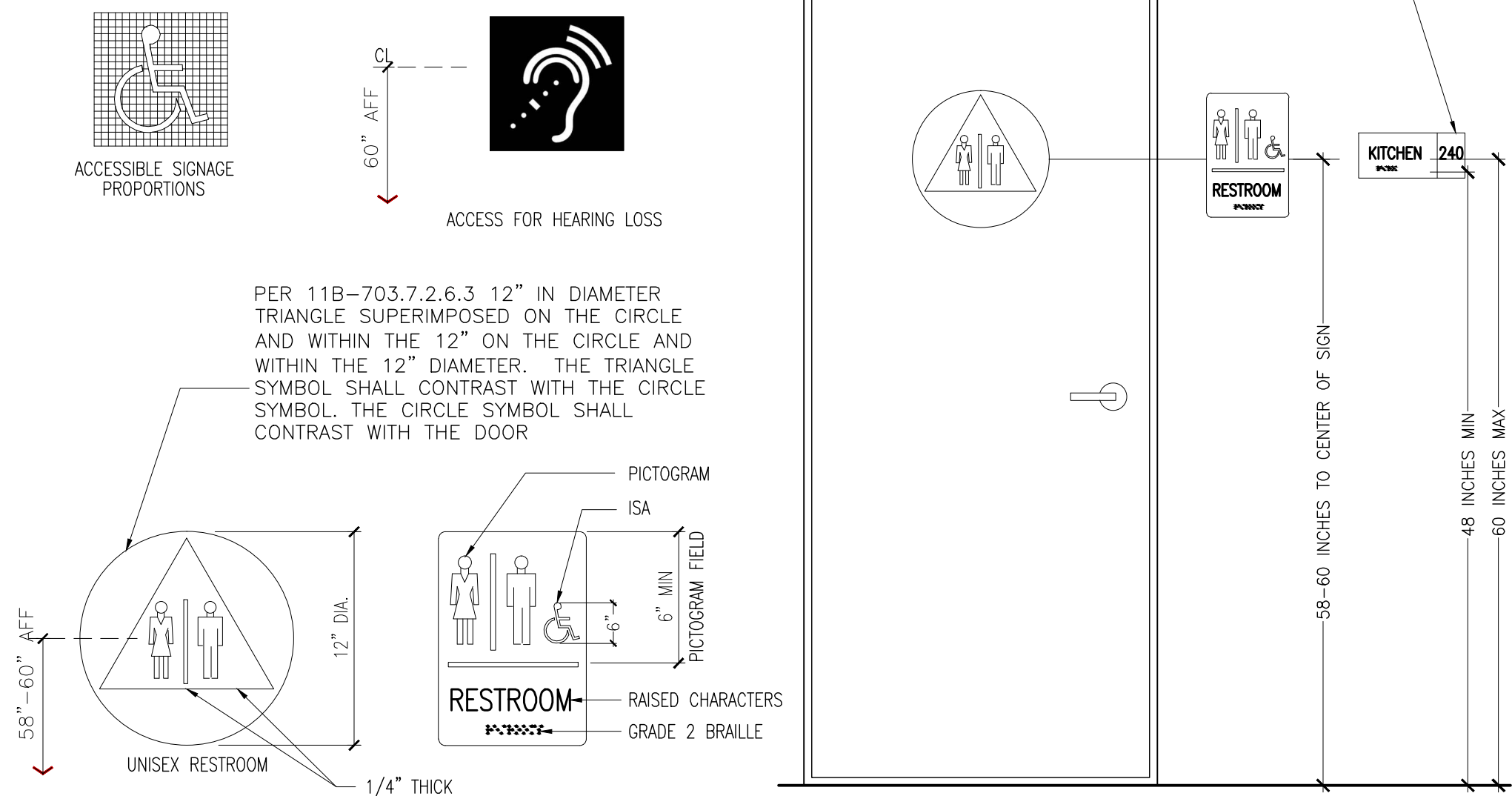
- 1 ACCESSIBLE STALLS WITH LEVEL LOADING
- 2 ACCESSIBLE PATH OF TRAVEL
SEE CIVIL DRAWINGS, SEE C.1
FOR SITE DEVELOPMENT
REQUIREMENTS
- 3 SEE A.1.00 SITE PLAN FOR
PARKING STALL RATIOS
- 4 LISTENING DEVICE



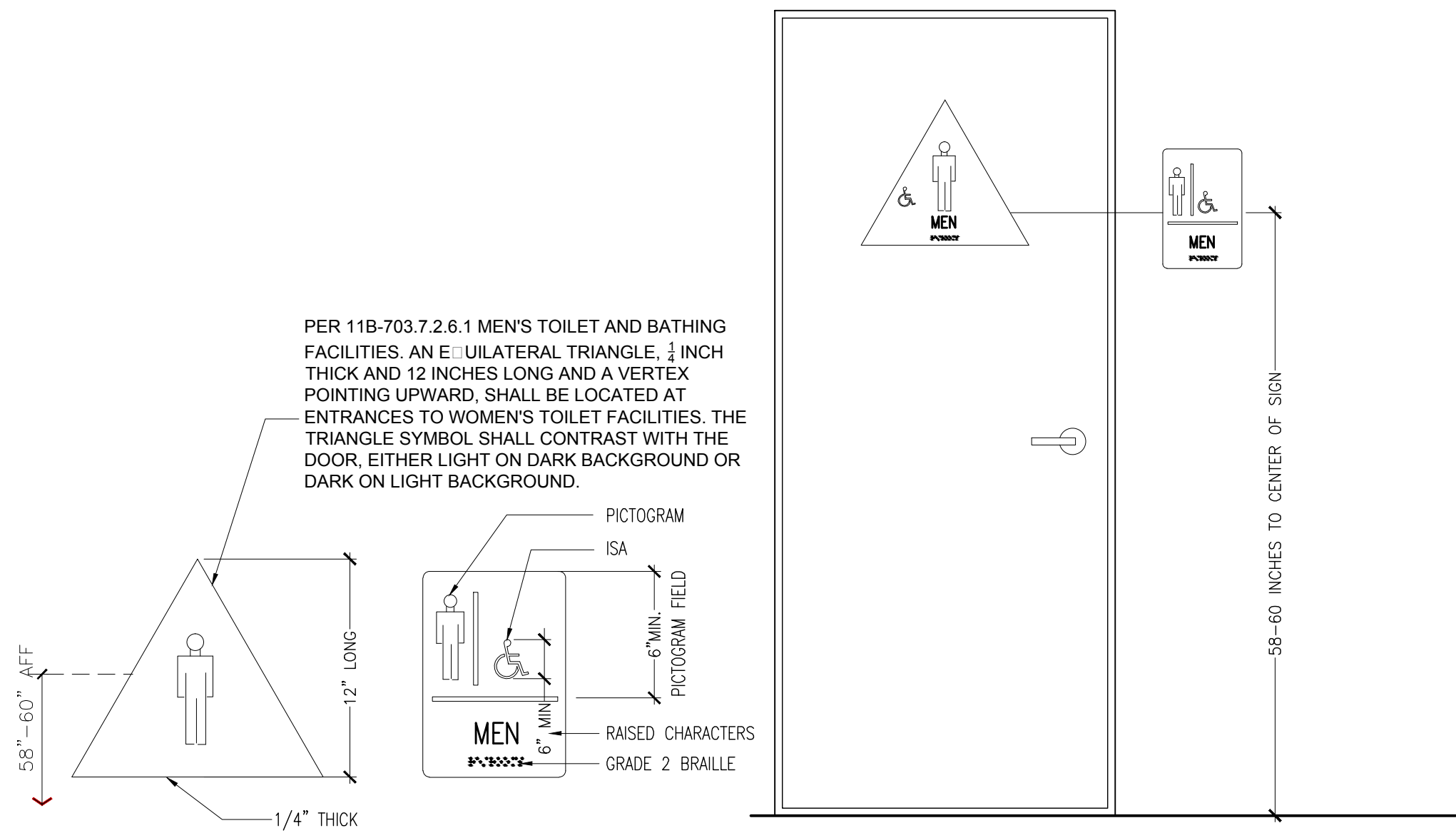
10 BUILDING PLAN - ACCESS

A0.10

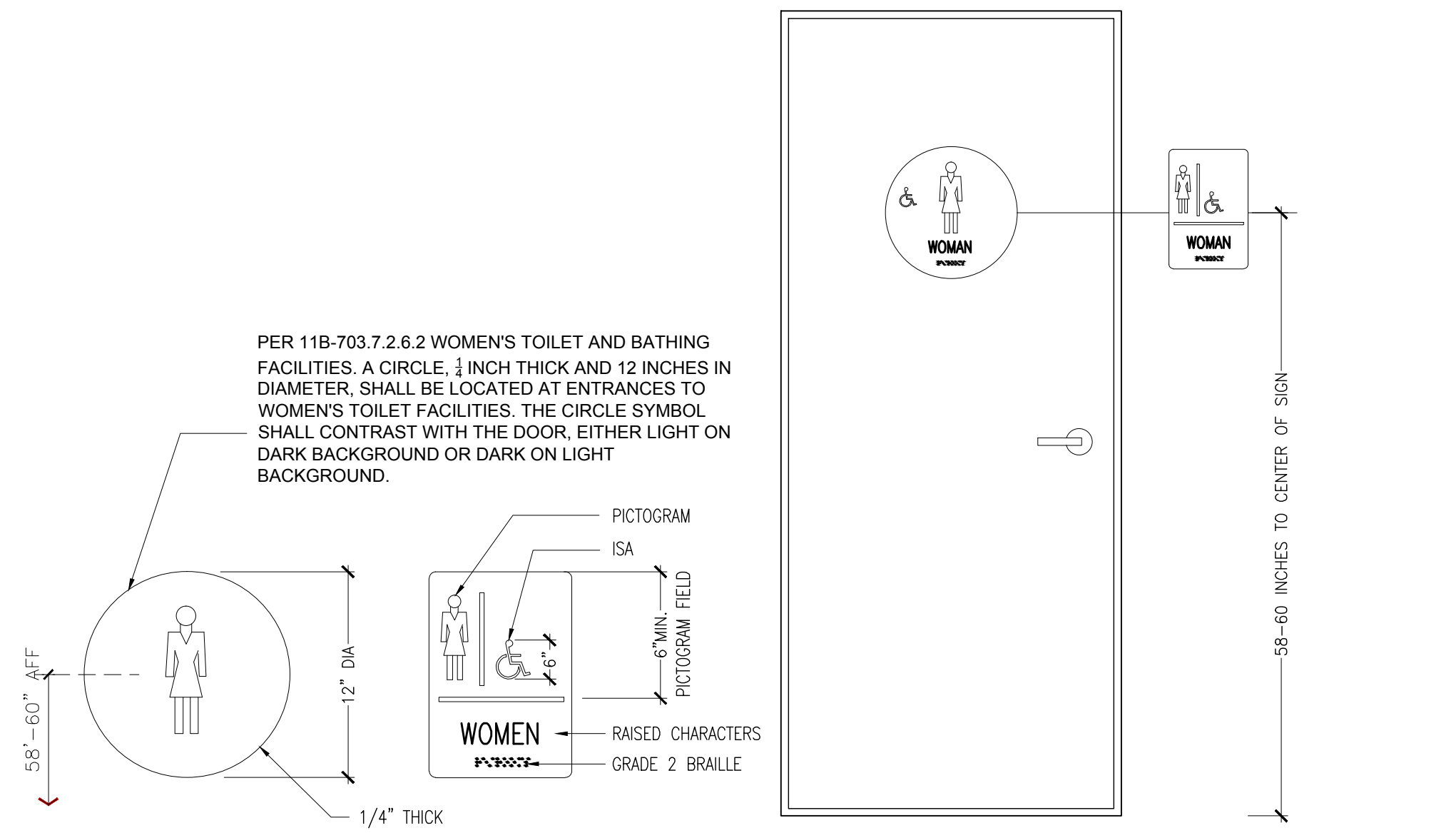
1. PROVIDE & INSTALL SIGNAGE & IDENTIFICATION DEVICES IN ACCORDANCE WITH 2016 CBC 11B SECTIONS 703 & 216.
2. PROVIDE & INSTALL TACTILE EXIT SIGNS IN ACCORDANCE WITH 2016 CBC SECTIONS 703 & 216
3. REFER TO SPEC. SECTION 101400 "SIGNS" FOR GENERAL SIGNAGE SCOPE.



12 SIGN LOCATION AND INSTALLATION

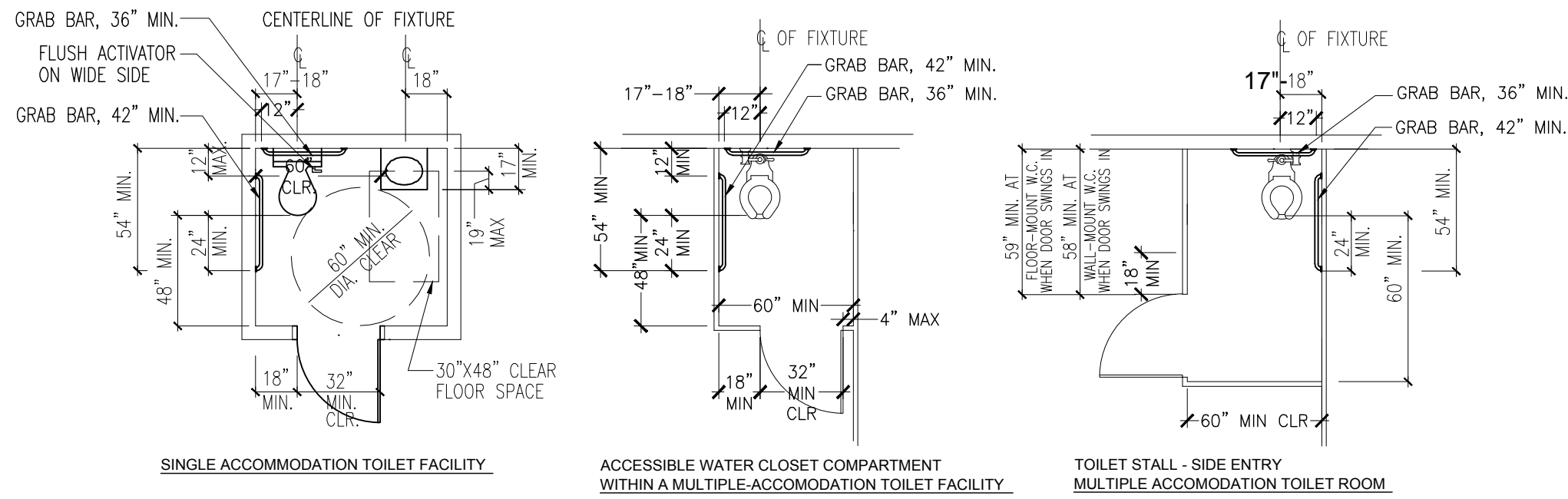


11 SIGN LOCATION AND INSTALLATION - MEN'S TOILET ROOM

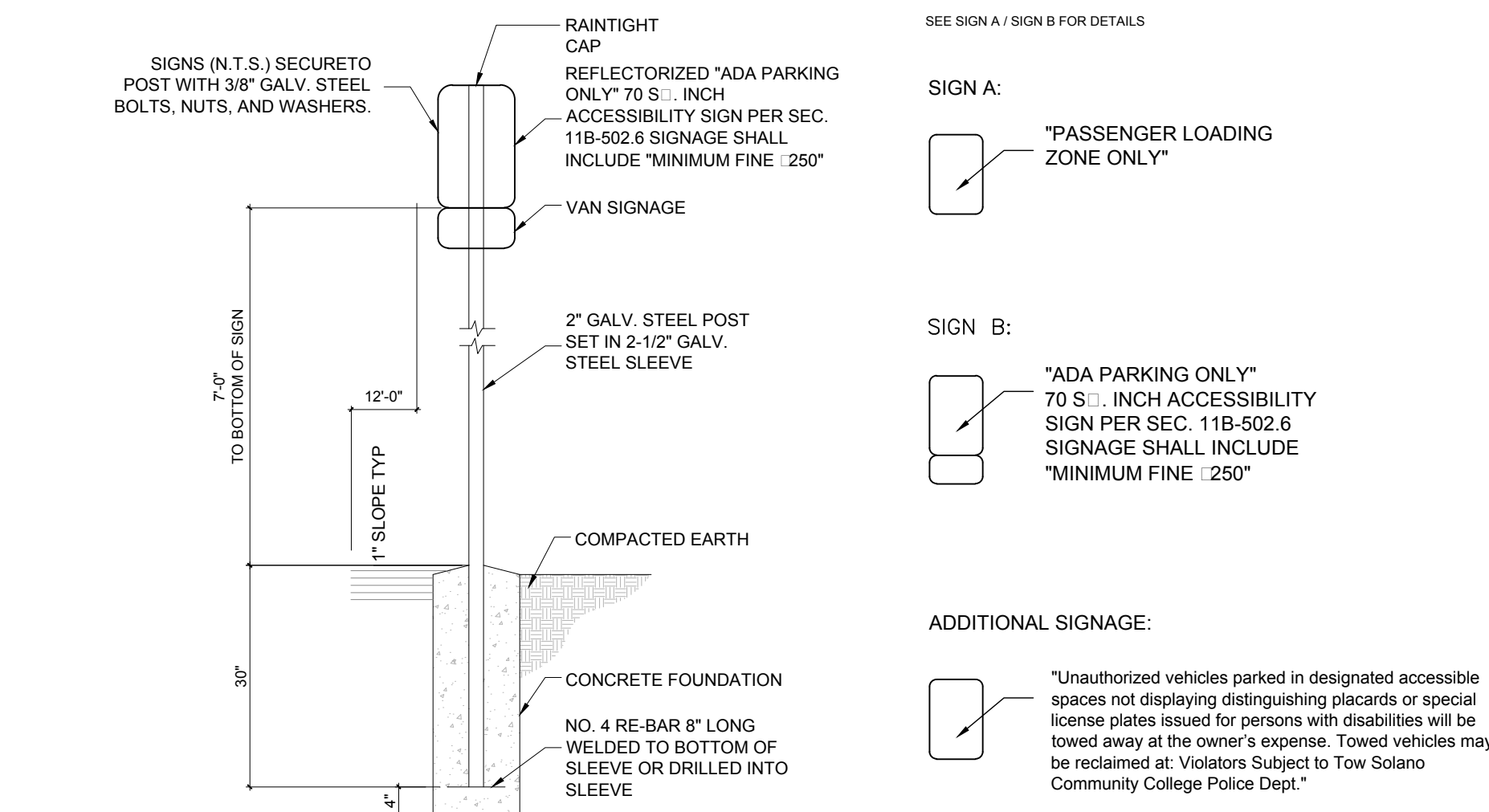


10 SIGN LOCATION AND INSTALLATION - WOMEN'S TOILET ROOM

NOTE: DIMENSIONS SHOWN DESCRIBE MINIMUM REQUIREMENTS ONLY. REFER TO CONSTRUCTION DOCUMENTS FOR SIZE & LOCATIONS OF SPECIFIC FIXTURES & ACCESSORIES.



09 BATHROOM CLEARANCES

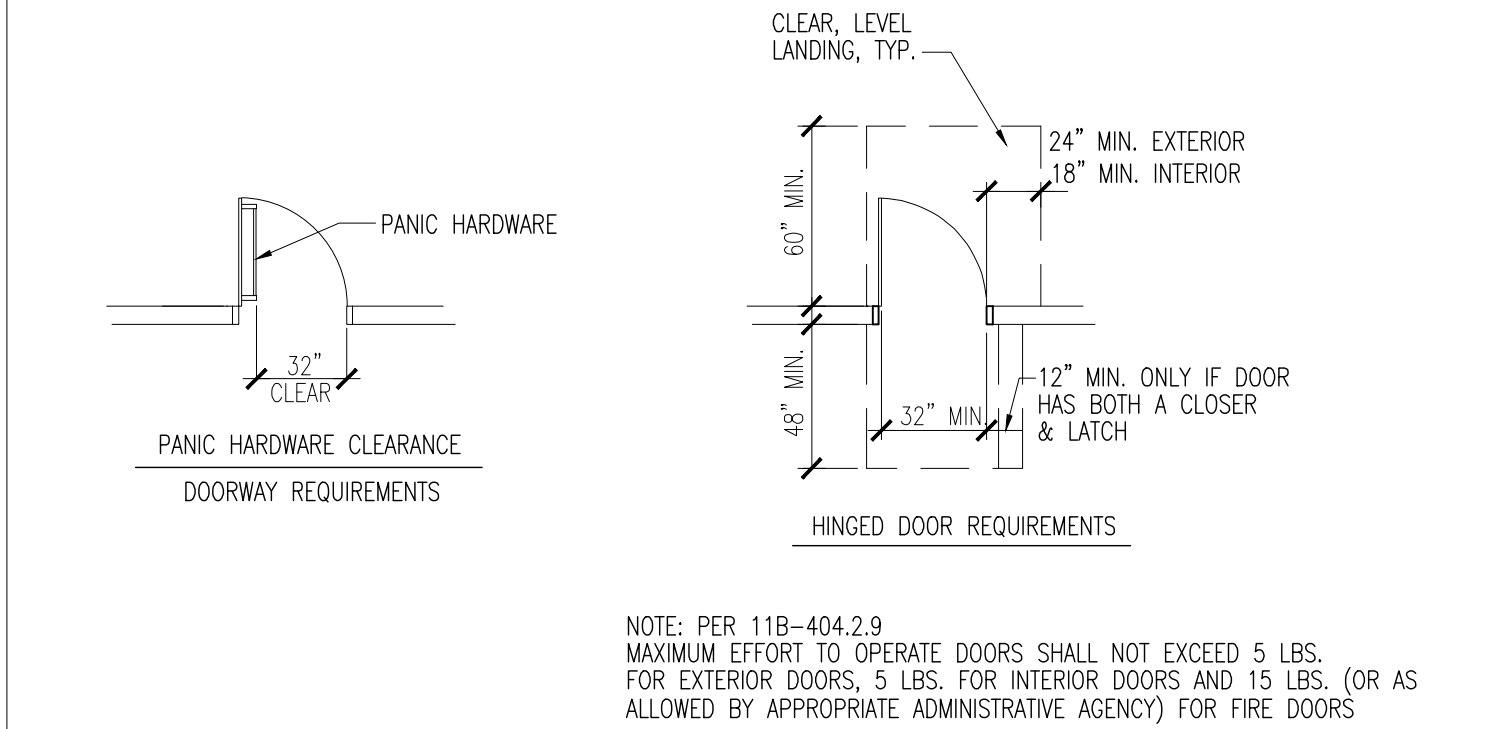


08 ACCESSIBLE SIGNAGE @ PARKING

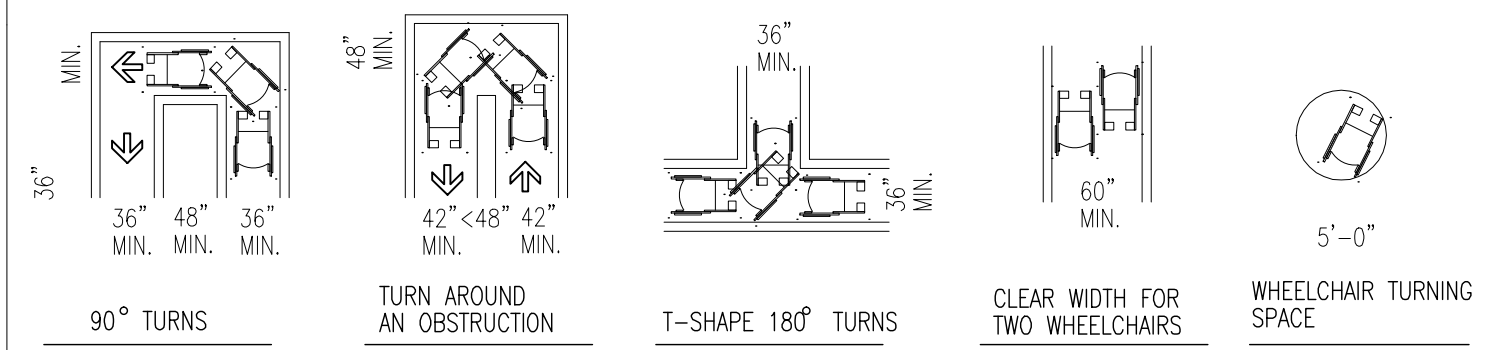
DESCRIPTION	URINAL	LAVATORY	TOILET	TOILET TISSUE HOLDER	GRAB BAR	MIRROR
NOTE: MOUNTING HEIGHT FROM FINISHED FLOOR TO HIGHEST OPERABLE CONTROL	48" MIN. 17" MAX. TOILET RM.	17" MIN. 48" MAX. 17" MIN. 48" MAX. 17" MIN. 48" MAX.	17" MIN. 17" MIN. 17" MIN. 17" MIN.	7" MIN. 9" MAX. 19" MIN. 19" MIN.	12" MAX. 42" MIN. 24" MIN. 33" MIN.	TO THE BOTTOM OF THE REFLECTED SURFACE 40" MAX. @ COUNTERS
SWITCHES	PAPER TOWEL DISPENSER W/ WASTE	SANITARY NAPKIN VENDOR	COMBINATION TP/SEAT CVR. NAPKIN DSPSR	SOAP DISPENSER	GRAB BAR @ TOILETS	GRAB BAR
48" MAX. H	40" MAX. H	40" MAX. H	7" MIN. 9" MAX. 21" MIN. 40" MAX.	17" MIN. 17" MIN. 17" MIN.	36" MIN. 12" MIN. 24" MIN. 33" MIN. REAR GRAB BAR ALLOWED AT 36" AFF. AT TANK-TYPE TOILET. TRANSFER SIDE	1 1/2" 1 1/4" 1 1/2"

*NOTE: THE FACE OF DISPENSER SHALL BE FLUSH WITH FACE OF FINISH

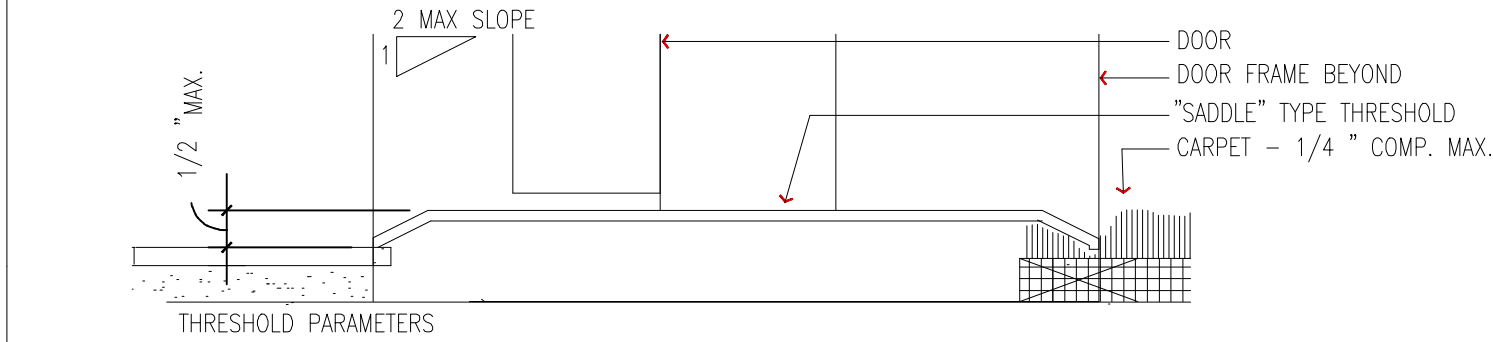
07 TABLE A - ADULT DIM



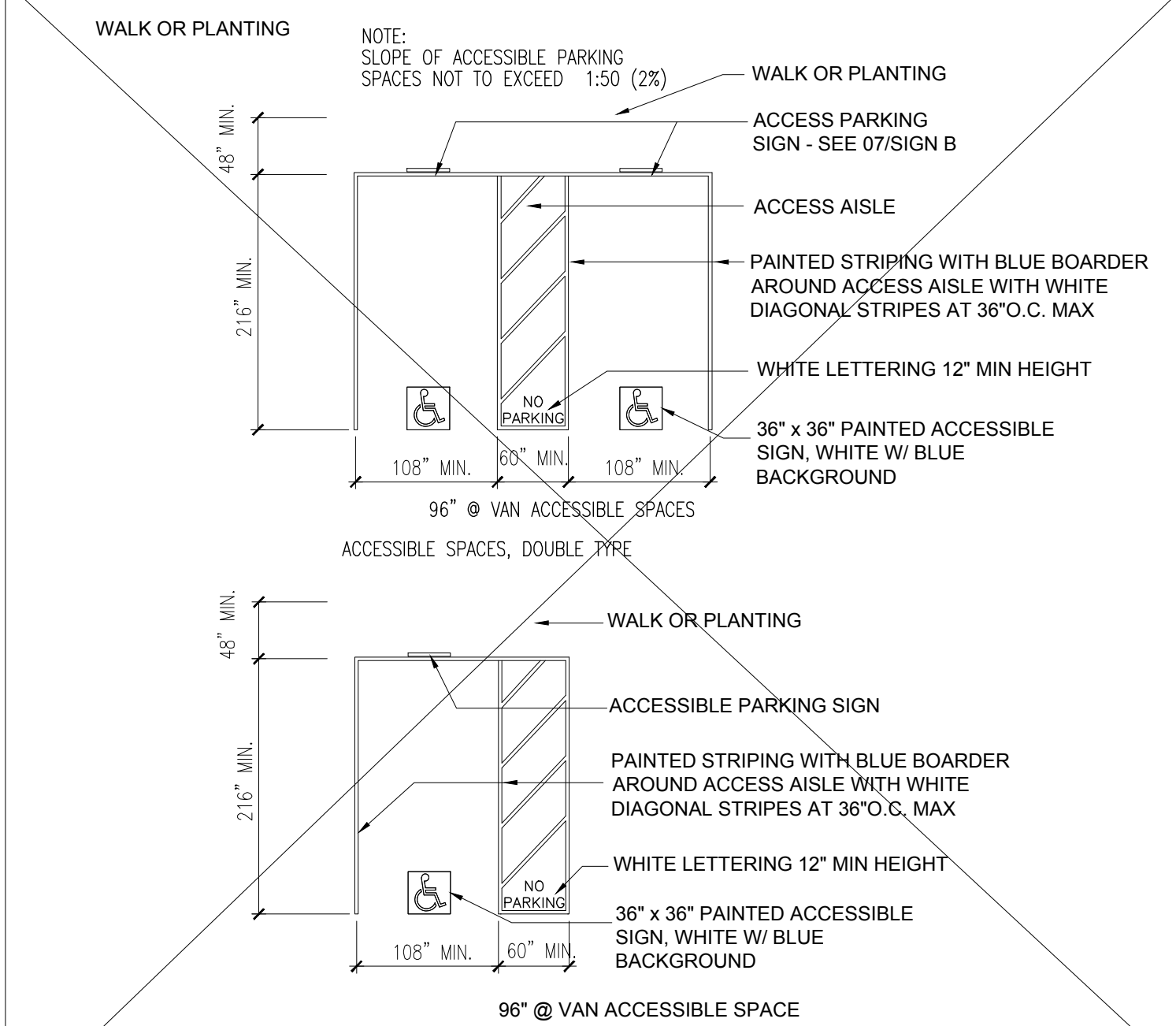
05 DOORWAY REQUIREMENTS



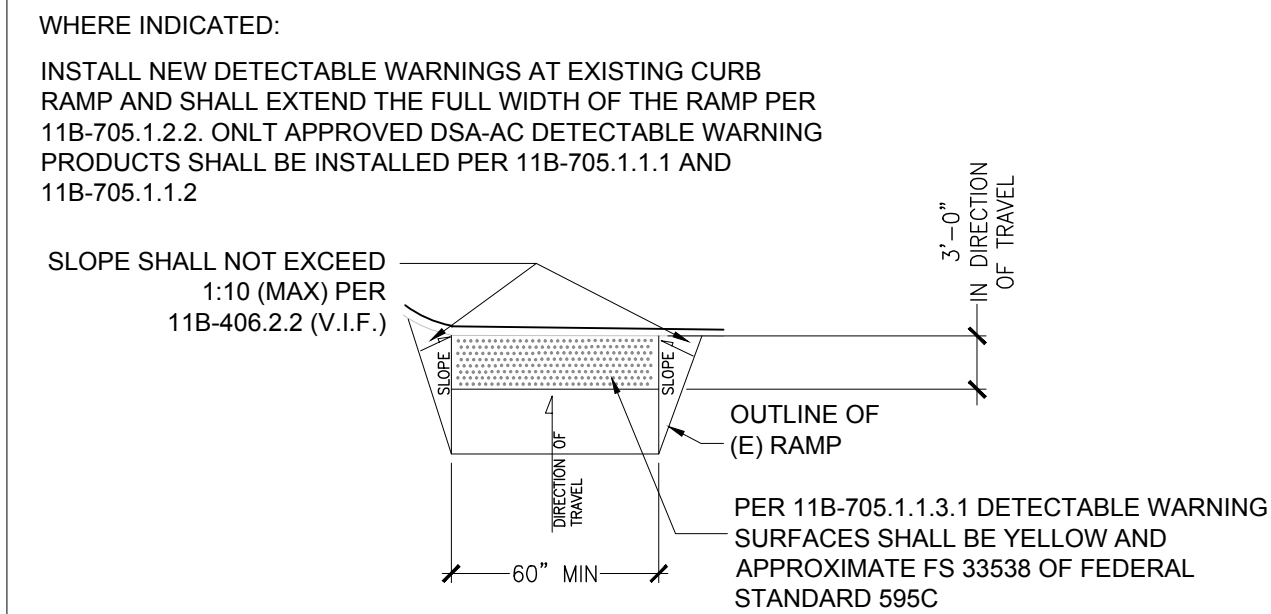
04 WHEELCHAIR TURNING REQUIREMENTS IN AN ACCESSIBLE ROUTE



03 THRESHOLD REQUIREMENT @ENTRY (TYP)



02 ACCESSIBLE PARKING SPACE



01 ACCESSIBLE CURB CUT - VIF

OWNER:

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ARCHITECT:

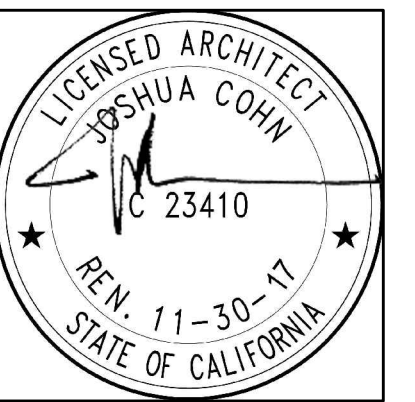
CA ARCHITECTS
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PROJECT:

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CONSULTANT TEAM:

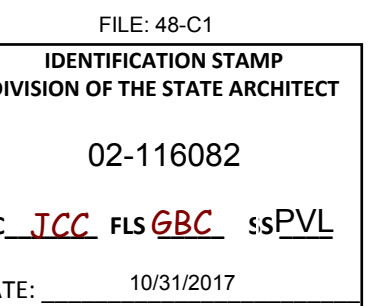
STAMP



SHEET LEGEND:

ISSUE/REVISION:	NO.	DATE:	DESCRIPTION:
	04/25/2017		ISSUE FOR DD 100%
	06/06/2017		ISSUE FOR CD 50%
	06/30/2017		ISSUE FOR CD 60%
	07/20/2017		ISSUE FOR CD 100%
	10/18/2017		DSA BACKCHECK

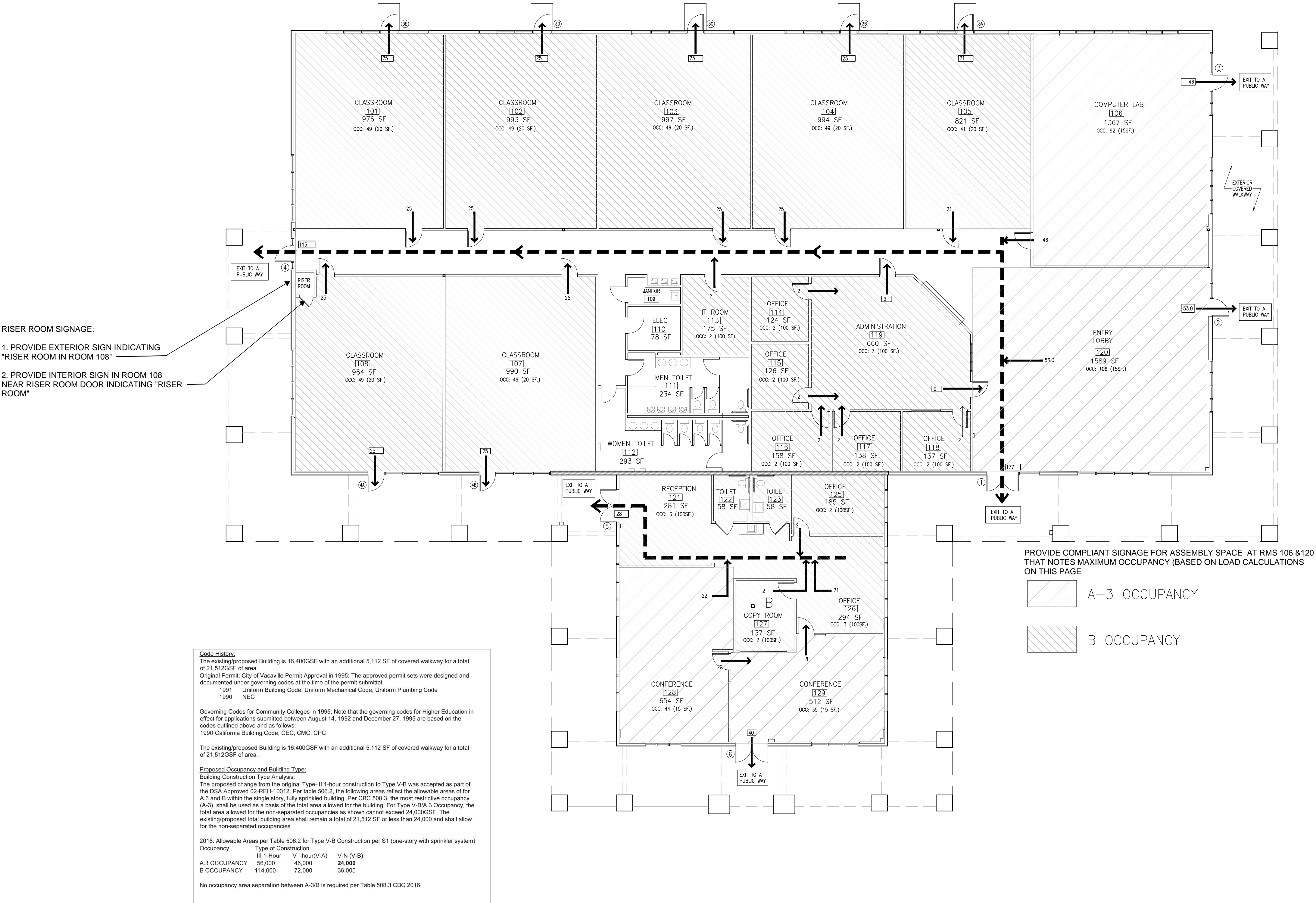
KEY PLAN:



SCALE: _____
DATE: _____
PROJECT NO: _____
PERMIT APPLICATION NO.: _____

ADA - ACCESS

A0.20



GENERAL NOTE:

1. PER TABLE 803.1.1 CBC 2016, INTERIOR FINISHES FOR WALL AND CEILING, IN ROOMS AND ENCLOSED SPACES SHALL BE CLASS "C" OR BETTER AND CLASS "B" IN CORRIDORS AND EXIT ENCLOSURES IN FULLY SPRINKLED SPACES. CRITERIA FOR FLAME SPREAD INDEX SHALL COMPLY WITH SEC 803 AND TABLE 803.9 (TYP).

2. NON-RESILIENT FLOOR FINISHES SHALL OF CLASS I OR CLASS II IN ACCORDANCE WITH NFPA 253 (TYP) AND SHALL COMPLY WITH THE REQUIREMENTS IN SECTION 804

3. SEE DSA APPROVED 02-REH-10012 (09/15/2015) FOR CHANGE OF BUILDING CLASSIFICATION TO TYPE V-B.

LOADS: PER TABLE 1004.1.2

RM NO.	OCC.	ROOM NAME	SF.	OCC. LOAD	TOTAL
101	B	CLASSROOM	976	20	49
102	B	CLASSROOM	993	20	49
103	B	CLASSROOM	997	20	49
104	B	CLASSROOM	994	20	49
105	B	CLASSROOM	820	20	41
106	A-3	COMPUTER LAB	1367	15	92
107	B	CLASSROOM	990	20	49
108	B	CLASSROOM	964	20	49
114	B	OFFICE	124	100	2
115	B	OFFICE	126	100	2
116	B	OFFICE	158	100	2
117	B	OFFICE	138	100	2
118	B	OFFICE	137	100	2
119	B	OFFICE	660	100	7
120	A-3	LOUNGE	1589	15	106
121	B	RECEPTION	281	100	3
125	B	OFFICE	104	100	2
126	B	OFFICE	294	100	3
127	B	OFFICE	137	100	2
128	A-3	CONFERENCE	654	15	44
129	A-3	CONFERENCE	512	15	35
TOTAL			13,016		639

EGRESS WIDTH (PER 1005)

OCCUP.		DOORS (0.2)	
		REQ'D	PROV.
①	177	35.4	72.0
②	53.0	10.6	36.0
③	46	9.2	36.0
③A	21	4.2	36.0
③B	21	4.2	36.0
③C	21	4.2	36.0
③D	21	4.2	36.0
③E	21	4.2	36.0
④	115	23	36.0
④A	25	5	36.0
④B	25	5	36.0
⑤	28	5.6	72.0
⑥	40	15.9	72.0

OWNER:

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

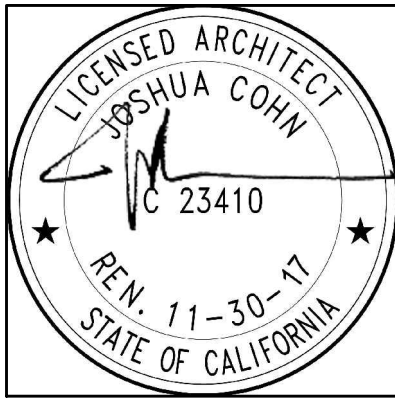
CA ARCHITECTS
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F 415.331.7656

PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

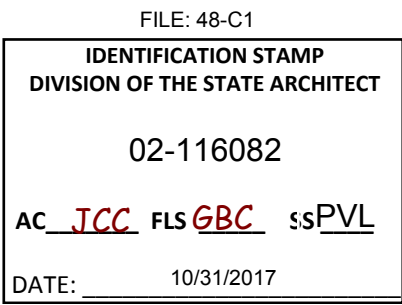
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GENERAL NOTES FOR FIRE EXTINGUISHER (FE): :

- FIRE EXTINGUISHERS (FE) PROVIDED SHALL BE IN COMPLIANCE WITH CFC SECTION 906. CLASSIFICATION SHALL BE IN ACCORDANCE WITH CCR TITLE 19, DIV 1, SECT 565.1(A); LIGHT HAZARD (FOR CLASSROOMS), SEE A2.00 FOR LOCATIONS.
- FE SHALL BE INSPECTED PER SEC.574.1 ON A MONTHLY BASIS UNLESS OTHERWISE DETERMINED BY THE GOVERNING FIRE AUTHORITY. FE SHALL REMAIN FULLY CHARGED AND KEPT IN THEIR DESIGNATED PLACES AT ALL TIMES.
- PER TITLE 19, DIV.1, SEC.568, TABLE 2, FE SHALL BE RATED AS 2-A (MIN) AND SHALL BE PROVIDED WITH A MAXIMUM FLOOR AREA PER FE AT 3000SF. TOTAL AREA = 16,400/3000 = 6 FE MIN. MAXIMUM TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING SHALL NOT EXCEED 75' MIN. (TYP)

SHEET NOTES:

- ADJUST (E) DOOR OPENERS AT ACCESSIBLE ENTRIES (2 TOTAL).
- REINSTALL (E) METAL COILING DOOR ASSEMBLY AND (E) LOWER PLAM COUNTER FOR ACCESS COMPLIANCE.
- CONFORM (N) CONC WITH EXISTING (SSD), PATCH IN (N)WALL/CEILING FRAMING, GWB (PREP/TAPE/PAINT), TRIM TO MATCH EXISTING, WHERE WORK OCCURS AT DOORS ,REINSTALL (E) DOORS W/ NEW FRAMING TO MATCH. NEW CARPET TILES SHALL BE REPLACED IN WHOLE SQUARES ONLY (TYP).
- REMOVE (E) SHORING ONLY AFTER SEOR CONFIRMS IN WRITING WITH CONTRACTOR

GENERAL EGRESS DOOR COMPLIANCE (PER CBC SEC. 1010.1.9):

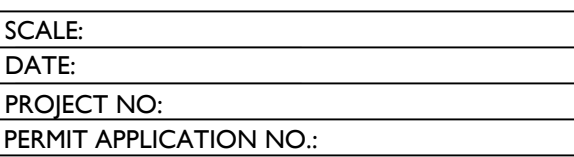
SCALE: 3/32" = 1' - 0"

- DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE BY CHAPTER 11A OR 11B OF THE CALIFORNIA BUILDING CODE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
- DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34 INCHES (864 MM) MINIMUM AND 48 INCHES (1219 MM) MAXIMUM ABOVE THE FINISHED FLOOR.
- MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS ARE NOT PERMITTED.
- THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION. DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE IN A GROUP A OCCUPANCY, ASSEMBLY AREA NOT CLASSIFIED AS AN ASSEMBLY OCCUPANCY, E, OCCUPANCIES SHALL NOT BE PROVIDED WITH A LATCH OR LOCK OTHER THAN PANIC HARDWARE OR FIRE EXIT HARDWARE.
- PER 1010.1.10.1 WHERE PANIC OR FIRE EXIT HARDWARE IS INSTALLED, IT SHALL COMPLY WITH THE FOLLOWING: PANIC HARDWARE SHALL BE LISTED IN ACCORDANCE WITH UL 305, FIRE EXIT HARDWARE SHALL BE LISTED IN ACCORDANCE WITH UL 10C AND UL 305, THE ACTUATING PORTION OF THE RELEASING DEVICE SHALL EXTEND NOT LESS THAN ONE-HALF OF THE DOOR LEAF WIDTH, AND THE MAXIMUM UNLATCHING FORCE SHALL NOT EXCEED 15 POUNDS (67 N).
- ALL EXITS DOORS SHALL HAVE COMPLIANT PANIC HARDWARE, VIF (TYP).

EGRESS PLAN
A0.30



KEY PLAN:



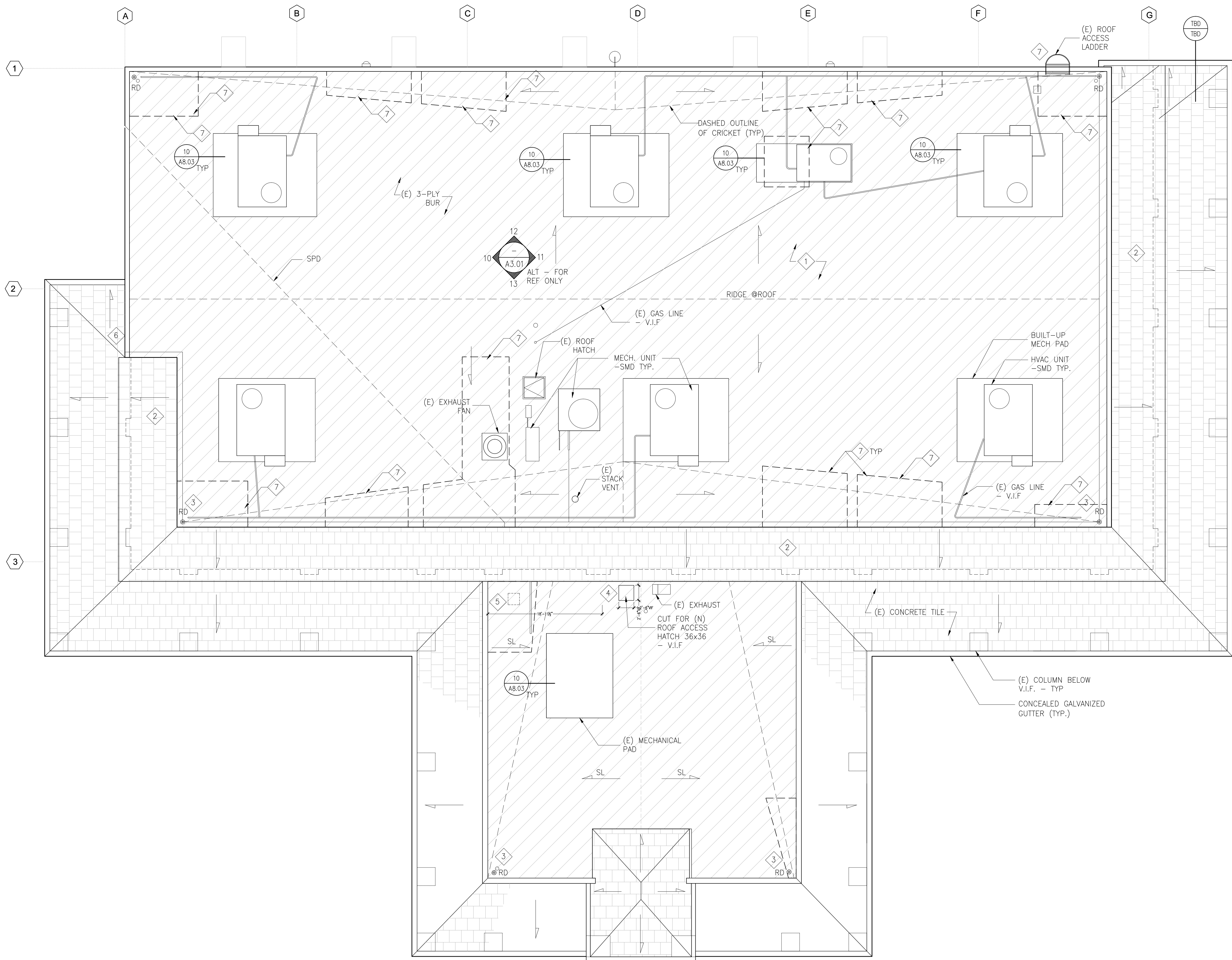
D1.01



- 1 REMOVE (E) BUILT-UP ROOF (BUR). IN AREAS SHOWN, COORDINATE WITH STRUCTURAL DRAWINGS FOR LOCATIONS (TYP). CONTRACTOR SHALL MOVE AND/OR CAP ALL UTILITIES TO ALLOW FOR WORK TO BE ADEQUATELY PERFORMED (TYP).
- 2 REMOVE (E) CONCRETE ROOF TILES AND PREPARE ROOF SUBSTRATE FOR INSTALLATION OF (N) METAL STANDING SEAM ROOF (TYP.)
- 3 REMOVE (E) ROOF DRAINS/OVERFLOW (TYP) - SPD
- 4 DEMO EXTERIOR ROOF AS SHOWN FOR NEW ACCESS HATCH . COORDINATE WITH LOCATION FOR NEW ACCESS LADDER BELOW (TYP).
- 5 DEMO TO PROVIDE FOR (N) EXHAUST FAN - SMD.
- 6 REMOVE (E) LADDER AND ALL RELATED ATTACHMENTS REQ'D TO PREPARE TO (N) ROOF
- 7 DASHED LINES INDICATE APPROXIMATE AREAS OF (E) CRICKETS, EQUIPMENT AND SUPPORT PLATFORMS THAT WILL REQUIRE ACCESS TO SHEATHING BELOW FOR STRUCTURAL WORK (SSD). CONTRACTOR SHALL PROVIDE ACCESS AS REQ'D AND TEMP CAP AND RELOCATE EQUIPMENT WHILE WORK IS BEING PERFORMED (TYP).
- 8 REMOVE (E) EXISTING FAN TO REINSTALLION

GENERAL ROOF DEMO NOTE:

CONTRACTOR SHALL REMOVE AREAS OF THE ROOF AS INDICATED IN PREPARATION FOR (N) ROOF. COORDINATE WORK ON ROOF WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND fa DOCUMENTS AS REQ'D FOR THE WORK TO BE PERFORMED (TYP).



SHEET NOTES:

- 1 REMOVE (E) BUILT-UP ROOF (BUR) AS INDICATED. SEE DETAILS FOR EXTENT OF REMOVAL AT EQUIPMENT PADS AND PARAPET (TYP.).
- 2 REMOVE (E) CONCRETE TILES, COPING, FLASHING AND ACCESSORIES AS REQ'D AND PREPARE SUBSTRATE FOR INSTALLATION OF (N) METAL SEAM ROOF (TYP.).
- 3 REMOVE (E) ROOF DRAINS/OVERFLOW (TYP.) - SPD
- 4 DEMO FOR EXTERIOR ROOF ACCESS HATCH, COORDINATE WITH INSTALL OF ACCESS LADDER BELOW.
- 5 DEMO TO PROVIDE FOR (N) EXHAUST FAN.
- 6 REMOVE (E) LADDER AND ALL RELATED ATTACHMENTS TO PREPARE TO (N) ROOF
- 7 DASHED LINES INDICATE APPROXIMATE AREAS OF (E) CRICKETS, EQUIPMENT AND SUPPORT PLATFORMS THAT WILL REQUIRE ACCESS TO SHEATHING BELOW FOR STRUCTURAL WORK (SSD). CONTRACTOR SHALL PROVIDE ACCESS AS REQ'D AND TEMP CAP AND RELOCATE EQUIPMENT WHILE WORK IS BEING PERFORMED (TYP.).

GENERAL ROOF DEMO NOTE:

CONTRACTOR SHALL REMOVE AREAS OF THE ROOF AS INDICATED IN PREPARATION FOR (N) ROOF. COORDINATE WORK ON ROOF WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND fa DOCUMENTS AS REQ'D FOR THE WORK TO BE PERFORMED (TYP.).

OWNER:

Solano Community College District
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Vacaville, CA 95688

ARCHITECT:

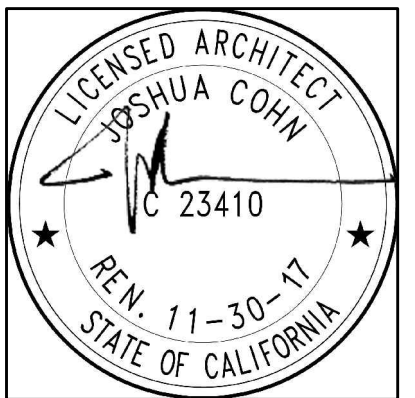
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PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

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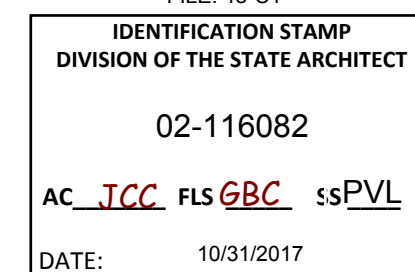
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06/30/2017		ISSUE FOR CD 60%
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10/18/2017		DSA BACKCHECK

KEY PLAN:

FILE: 48-C1



SCALE:

DATE:

PROJECT NO.:

PERMIT APPLICATION NO.:

**EXISTING/DEMO
ROOF PLAN**

D1.01 ALT

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Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

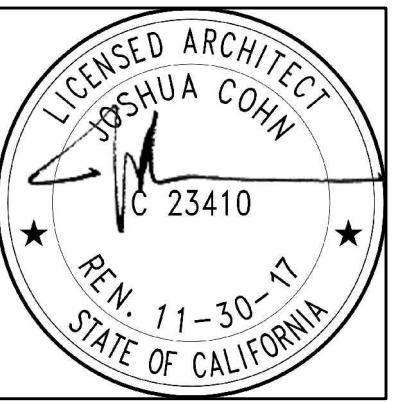
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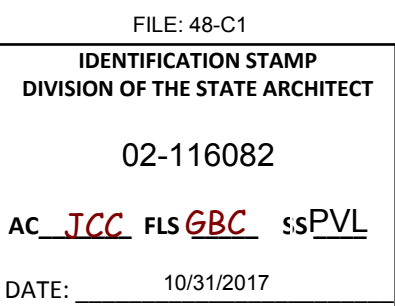


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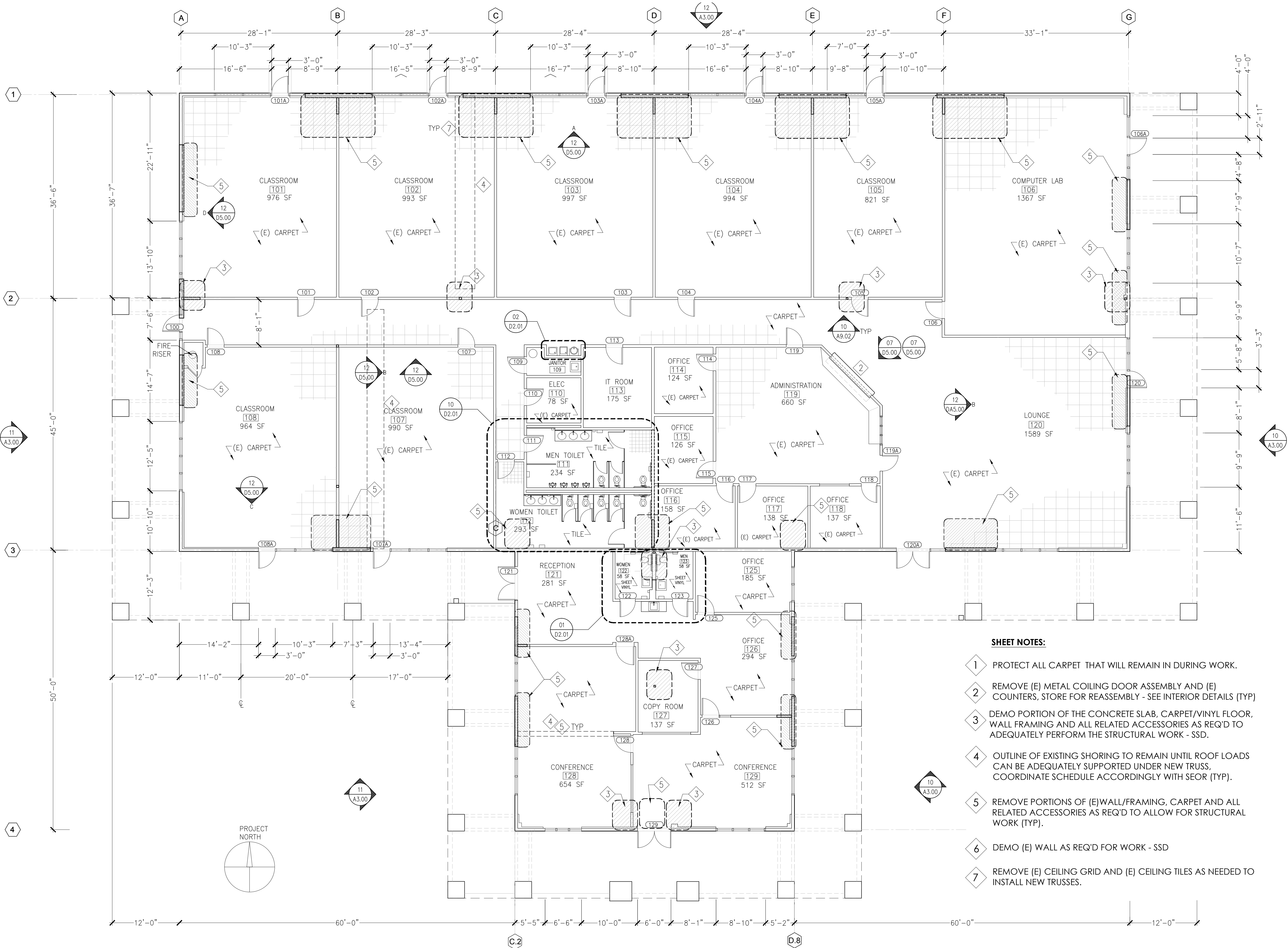


DATE:

PROJECT NO:

PERMIT APPLICATION NO.:

EXISTING / DEMO
FLOOR PLAN
D2.00



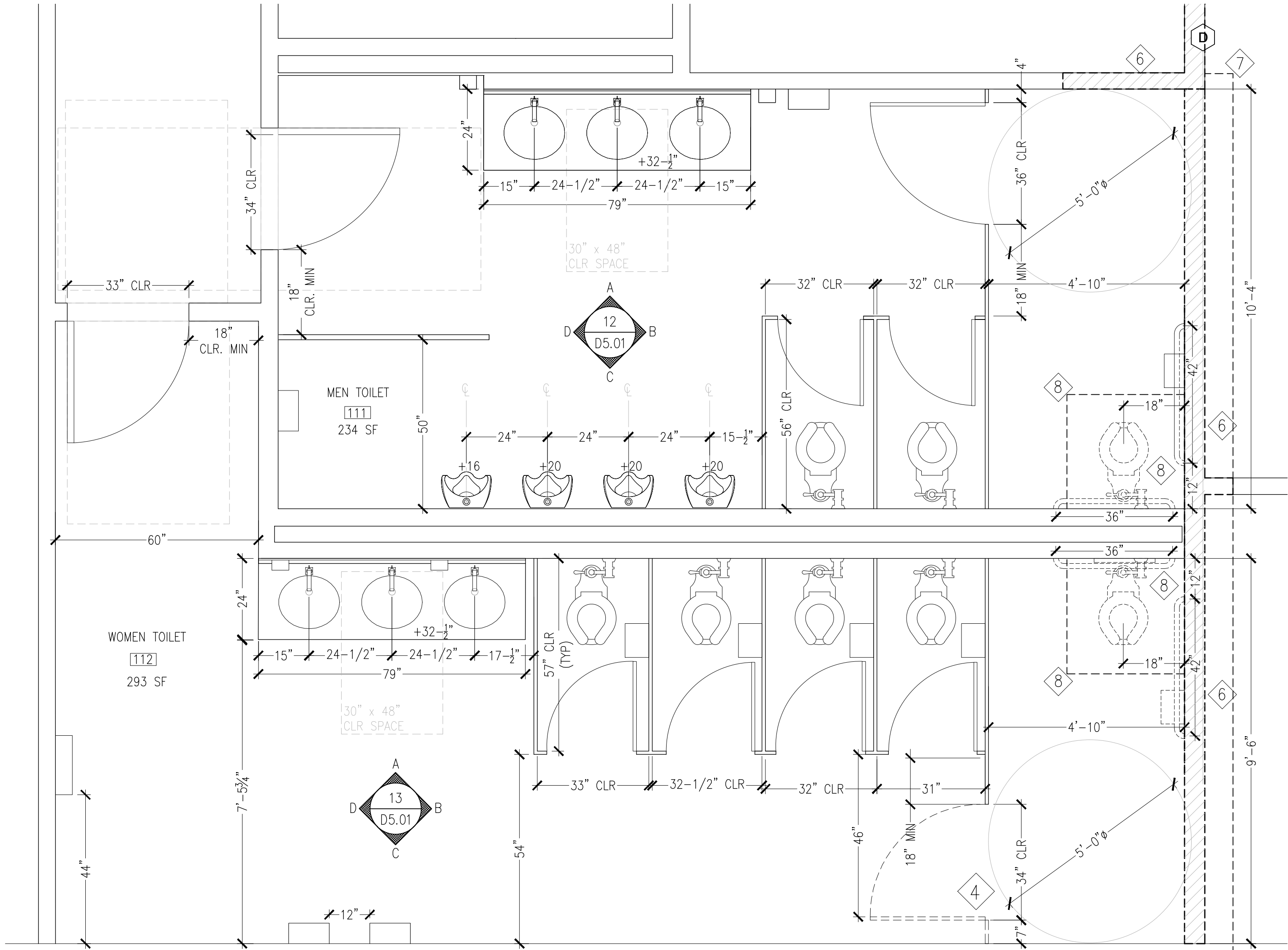
SHEET NOTES:

- 1 PROTECT ALL CARPET THAT WILL REMAIN IN DURING WORK.
- 2 REMOVE (E) METAL COILING DOOR ASSEMBLY AND (E) COUNTERS, STORE FOR REASSEMBLY - SEE INTERIOR DETAILS (TYP)
- 3 DEMO PORTION OF THE CONCRETE SLAB, CARPET/VINYL FLOOR, WALL FRAMING AND ALL RELATED ACCESSORIES AS REQ'D TO ADEQUATELY PERFORM THE STRUCTURAL WORK - SSD.
- 4 OUTLINE OF EXISTING SHORING TO REMAIN UNTIL ROOF LOADS CAN BE ADEQUATELY SUPPORTED UNDER NEW TRUSS, COORDINATE SCHEDULE ACCORDINGLY WITH SEOR (TYP).
- 5 REMOVE PORTIONS OF (E) WALL/FRAMING, CARPET AND ALL RELATED ACCESSORIES AS REQ'D TO ALLOW FOR STRUCTURAL WORK (TYP).
- 6 DEMO (E) WALL AS REQ'D FOR WORK - SSD
- 7 REMOVE (E) CEILING GRID AND (E) CEILING TILES AS NEEDED TO INSTALL NEW TRUSSES.

ROOM NAME	AREA SF	LOAD FACTOR	OCC.	MALE	FEMALE	M.WC		M.URN		F.WC		M.LAV		F.LAV		DRINKING FOUNTAIN	
						REQ.		REQ.		REQ.		REQ.		REQ.		REQ.	
						1: 1-50 2: 51-100		1: 1-100		1: 1-15 2: 16-30 3: 31-50 4: 51-100		1: 1-75 2: 76-150		1: 1-50 2: 51-100		1 PER 150	
CLASSROOM	8,102	50	162.04	82.02	82.02	2		1		4		2		2		2	
						1: 1-50 2: 51-100		1: 1-100		1: 1-15 2: 16-30 3: 31-50 4: 51-100		1: 1-75 2: 76-150		1: 1-50 2: 51-100		1 PER 150	
OFFICES	1,343	200	6.715	3.36	3.36	1		1		1		1		1		0	
						1 PER 150		1 PER 100		1 PER 30		1 PER 40		1 PER 40		1 PER 150	
LOBBY/LOUNGE	1,530	30	51	25.5	25.5	0		0		0		0		0		0	
TOTAL						REQ. PROV.		REQ. PROV.		REQ. PROV.		REQ. PROV.		REQ. PROV.		REQ. PROV.	
						3 4		3 4		5 5		3 3		3 3		2 3	
ADMIN BUILDING						1: 1-50 2: 51-100		1: 1-100		1: 1-15 2: 16-30		1: 1-75 2: 76-150		1: 1-50 2: 51-100		1 PER 150	
OFFICE (RECEPTION /CONFERENCE)	1,343	200	6.715	3.36	3.36	1		1		1		1		1		0	
						NOT REQ'D CPC 415.2											
					TOTAL	REQ. PROV.		REQ. PROV.		REQ. PROV.		REQ. PROV.		REQ. PROV.		REQ. PROV.	
						1 1		1 0		1 1		1 1		1 1		0 0	

12 PLUMBING FIXTURE ANALYSIS

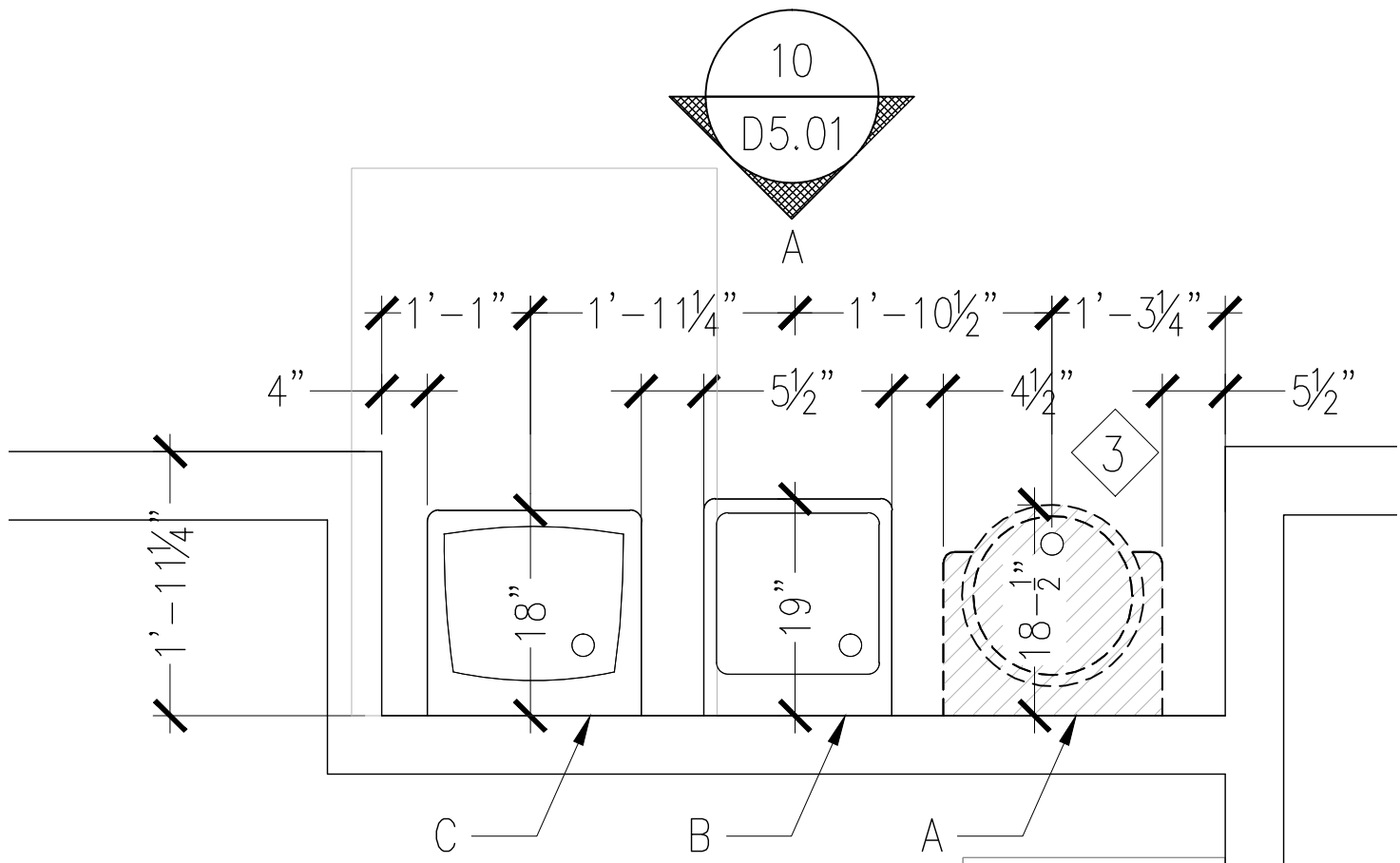
SCALE: 1/2" = 1' - 0"



10 TOILET ROOMS 111 & 112 (EXISTING)

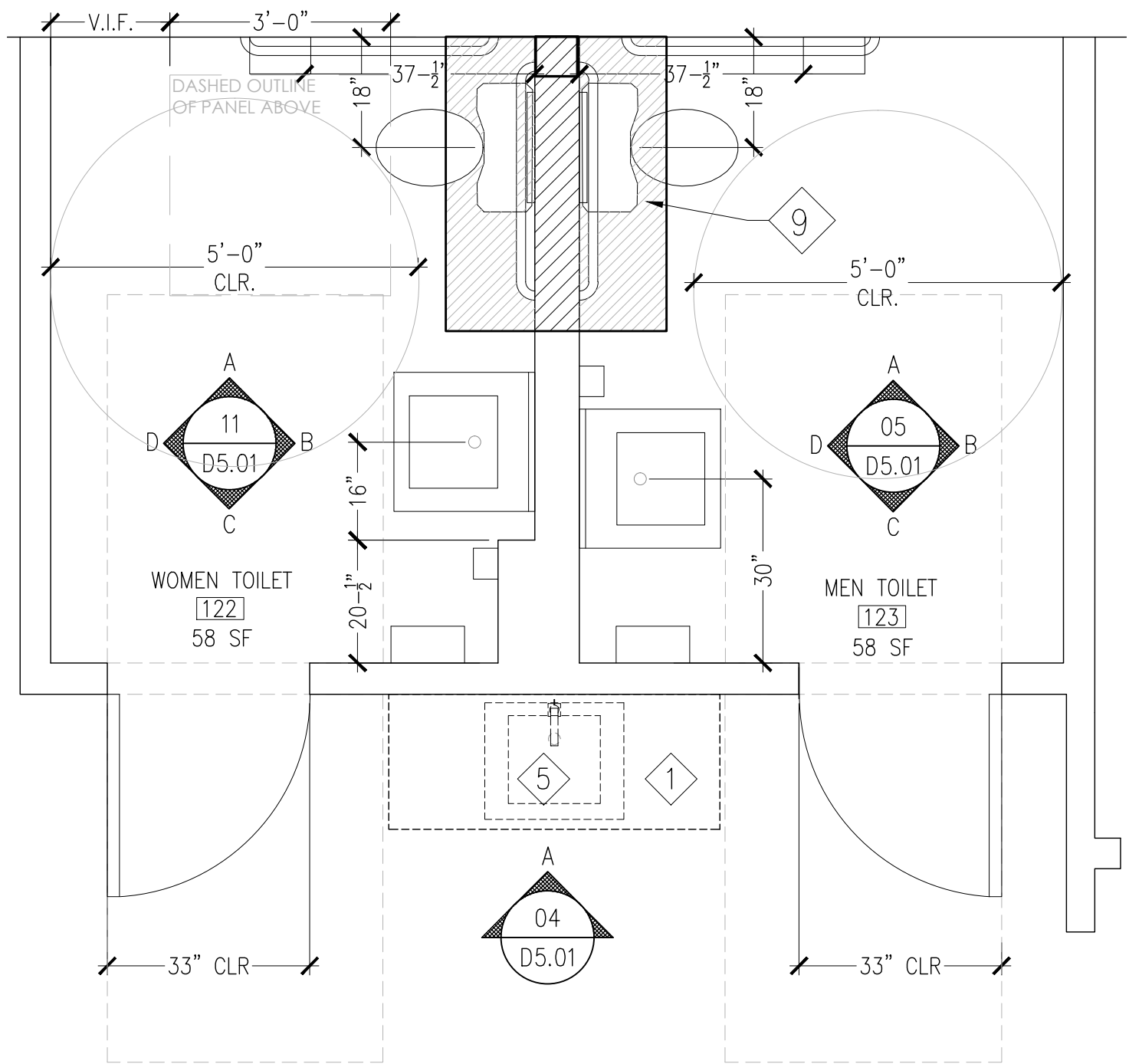
SCALE: 1/2" = 1' - 0"

- SHEET NOTES:**
- REMOVE (E) SINK AND CABINET, PREP WALL FOR PAINTING AND NEW CARPET (WHOLE SQUARES ONLY) WHERE DAMAGEDS FOR NEW CABINET/SINK (TYP).
 - (E) TOILET ROOMS 111 & 112 - REMOVE AND SALVAGE FOR REINSTALLATION TWO (2) EXISTING TOILET FIXTURES, ADJACENT ACCESSORIES, GRAB BARS AND CARRIERS. PREPARE WASTE LINES AND WATER SUPPLY LINES TO ALLOW FOR 5' MIN STALL WIDTH. DEMO EXISTING WALL AND PREPARE FOR RE-FRAMING.
 - REMOVE AND SALVAGE ALL (3) DRINKING FOUNTAINS. CAP POWER, WATER SUPPLY AND WASTE LINE. DRINKING FOUNTAIN B & C TO BE KEPT FOR REINSTALLATION, DRINKING FOUNTAIN A TO BE SALVAGED TO OWNER. DEMO (E) PARTITION OF THE WALL REQUIRED TO ALLOW FOR (N) PLUMBING AND ELECTRICAL AND BACKING (TYP.) - SEE 02/D2.01
 - REMOVE (E) PARTITION DOOR AT WOMEN'S RESTROOM 112 AND SALVAGE FOR REINSTALLATION TO ALLOW FOR IN-SWING. PROVIDE ALL HARDWARE NECESSARY FOR SCOPE (TYP)
 - REMOVE AND SALVAGE (E) GARBAGE DISPOSA FOR OWNER
 - DEMO (E) WALL- CONTRACTOR TO DETERMINE ACTUAL SCOPE OF DEMOLITION (TYP).
 - REMOVE PORTIONS OF (E) CARPET TILE, COVE BASE AND CEILING TILES AS REQ'D TO PROVIDE SUFFICIENT CLEARANCE FOR NEW WALL. REPLACE TILES IN WHOLE SQUARES ONLY (TYP).
 - DEMO (E) TILE FLOOR AND CONCRETE SLAB BELOW TO ALLOW FOR RE-LOCATED TOILET, SUPPLY AND WASTE LINE (SPD). OUTLINE OF DEMO AREA IS FOR REFERENCER ONLY, CONTRACTOR SHALL DETERMINE ACTUAL AREA OF DEMOLITION (TYP).
 - REMOVE (E) TOILETS AND ALL RELATED ACCESSORIES FOR REINSTALLATION. DEMO CONC SLAB/TILE/WALL AS REQ'D TO ALLOW FOR STRUCTURAL WORK (SSD), CAP ALL UTILITIES AND PROTECT LINES FOR REINSTALLATION. OUTLINE FOR DEMO IS FOR REFERENCE ONLY, CONTRACTOR SHALL DETERMINE EXTENT (TYP).



02 EXISTING DRINKING FOUNTAINS

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



01 TOILET ROOMS 122 & 123 (EXISTING)

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

OWNER:

Solano Community College District
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ARCHITECT:

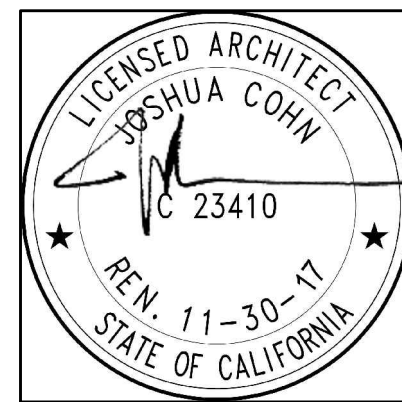
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PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

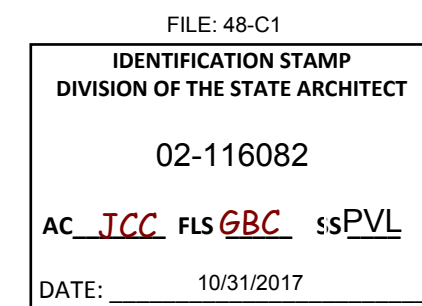
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10/18/2017 DSA BACKCHECK

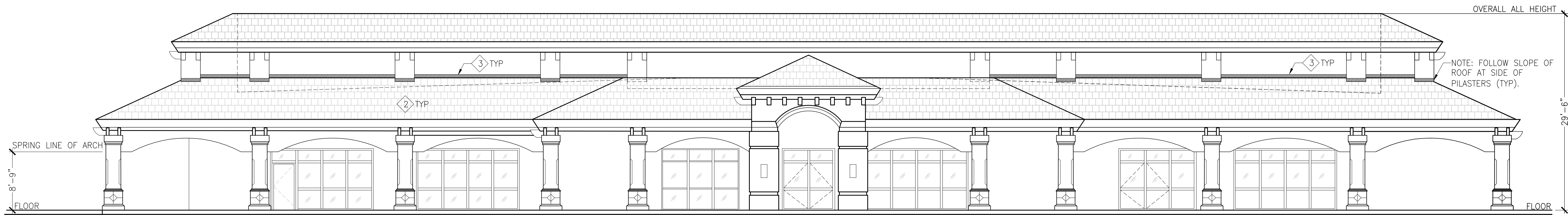
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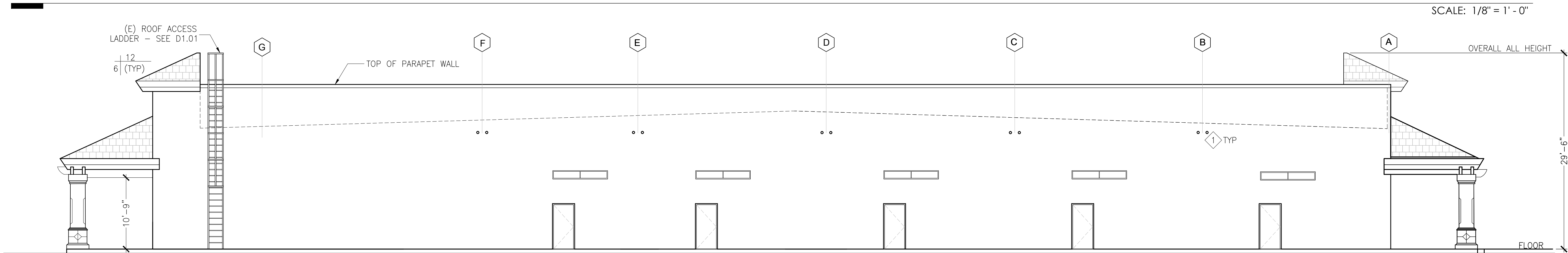
SCALE:
DATE:
PROJECT NO:
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DEMO PLANS EXISTING
TOILET ROOMS &
DRINKING FOUNTAINS

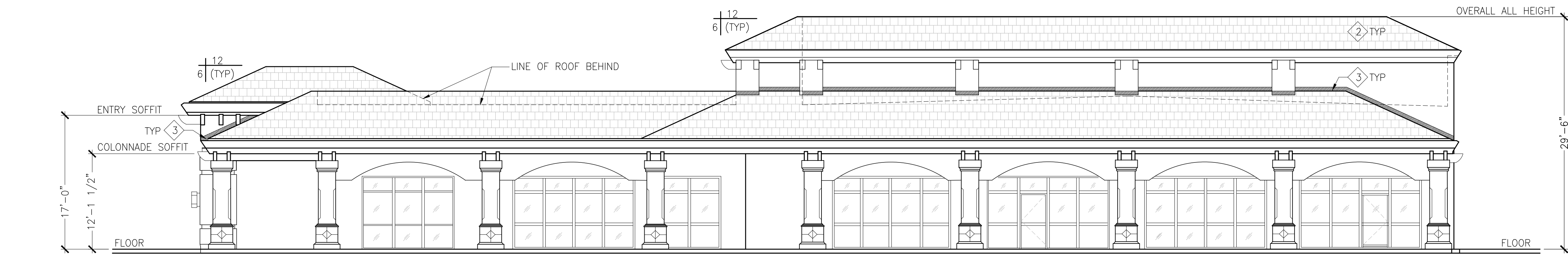
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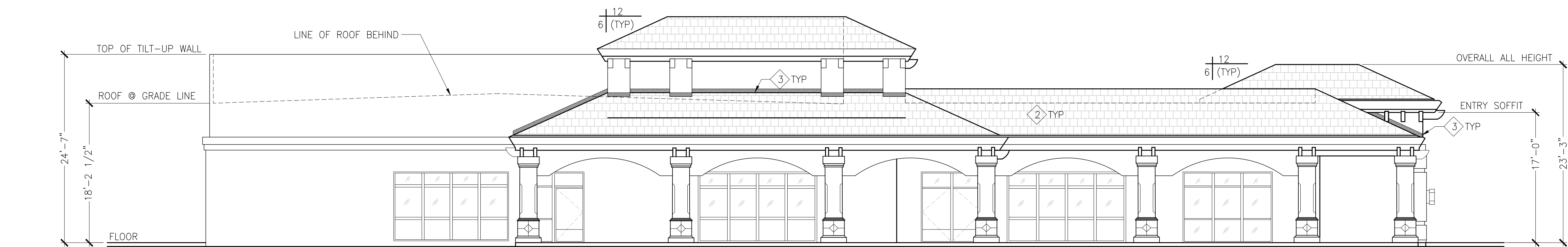
13 EXISTING NORTH ELEVATIONS



12 EXISTING SOUTH ELEVATIONS



11 EXISTING WEST ELEVATIONS



10 EXISTING EAST ELEVATIONS

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

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

SHEET NOTES:

- 1 CORING HOLES AT (E) CONCRETE PANELS (TYP)-SSD
- 2 REMOVE (E) CONCRETE TILES AND PREPARE FOR INSTALLATION OF (N) METAL SEAM ROOF (TYP.)
- 3 PREPARE (E) WALL FOR NEW FLASHING; REMOVE CEMENT PLASTER AS REQ'D (TYP).

EXISTING COLORS
TRIM AND PAINTED SURFACES
(REFERENCE FROM A2.1 - SCCD SET APPROVED DATE 12-25-1995)

- ROOF
"LIFETILE" FLAT CONC. TILE 1220 OR EQUAL
- BUILDING
STUCCO "LA HABRA STUCCO"
"PURE IVORY" (MAIN BUILDING STUCCO, STUCCO AT TEMP./PERM. SIGNAGE, DIRECTORIES, TRASH ENCLOSURES, COLUMN BODIES)
STUCCO TRIM "LA HABRA STUCCO"
"FRENCH VANILLA" (ACCENT STUCCO, TRIM & COLUMN BASE VENEER)
- WOOD
TRIM "DUNN-EDWARDS"
"RODEO TAN" OR EQUAL (ALL WOOD PAINTED TRIM)

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ARCHITECT:

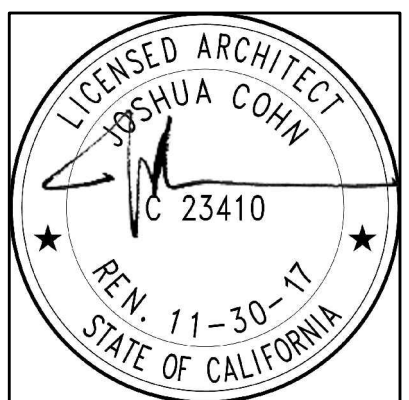
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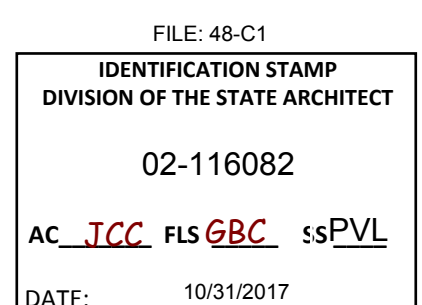


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KEY PLAN:



DATE:

PROJECT NO:

PERMIT APPLICATION NO.:

EXISTING/DEMO
ELEVATIONS
D3.00

OWNER:

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

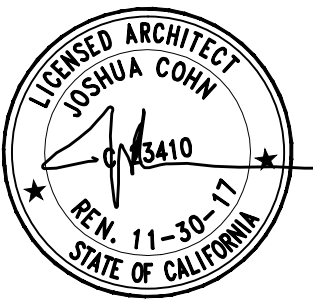
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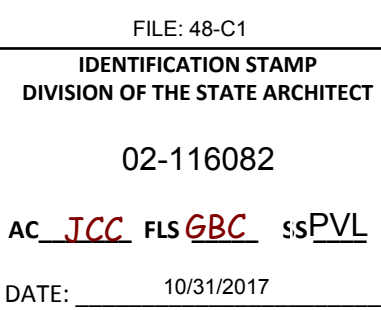


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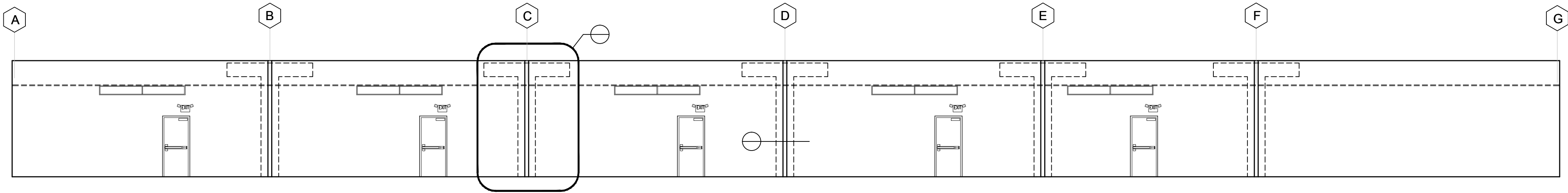
KEY PLAN:



SCALE: _____
DATE: _____
PROJECT NO: _____
PERMIT APPLICATION NO: _____

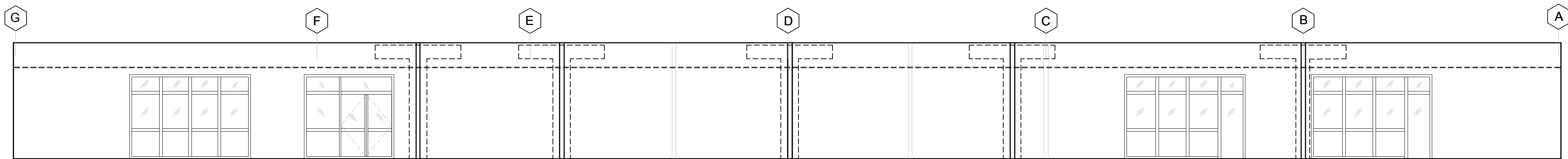
**DEMO/EXISTING
ELEVATIONS**

D5.00



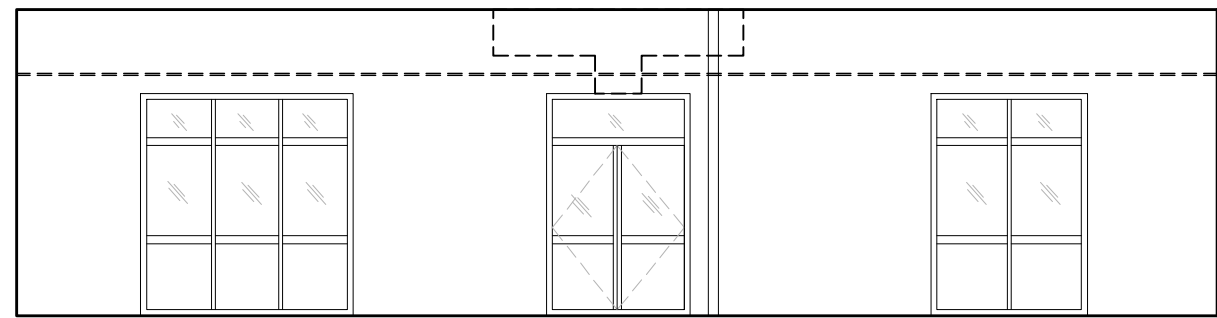
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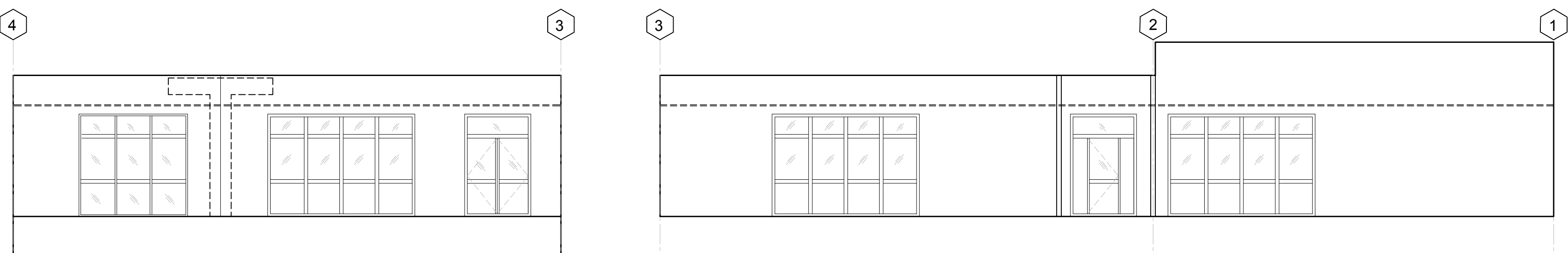
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SCALE: 1/8" = 1' - 0"



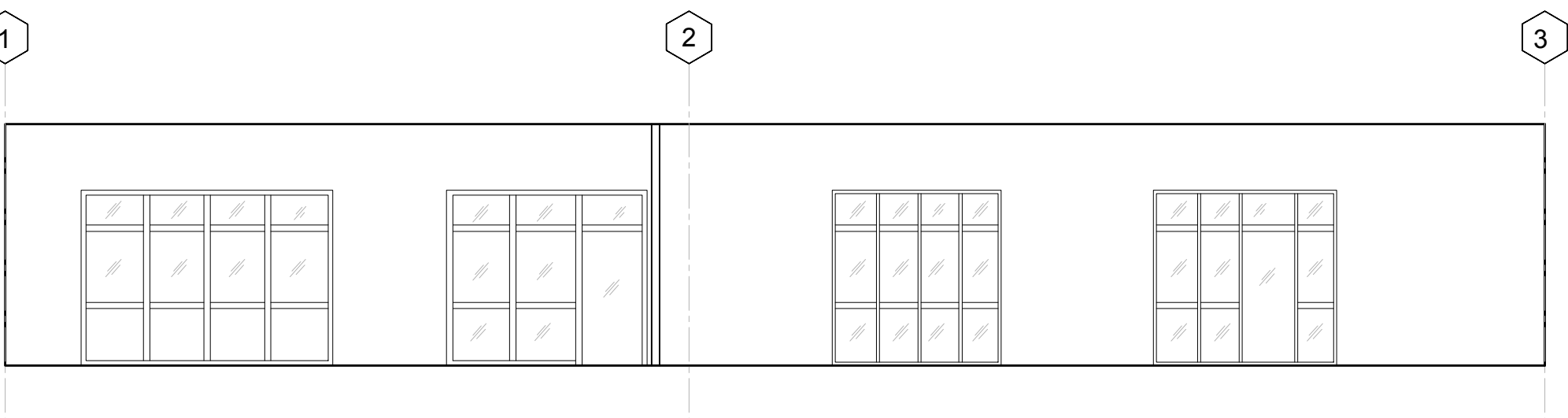
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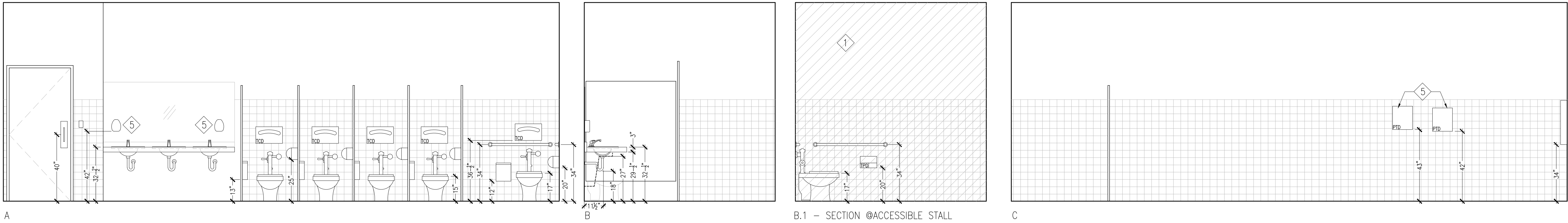
11 EXISTING ELEVATIONS

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

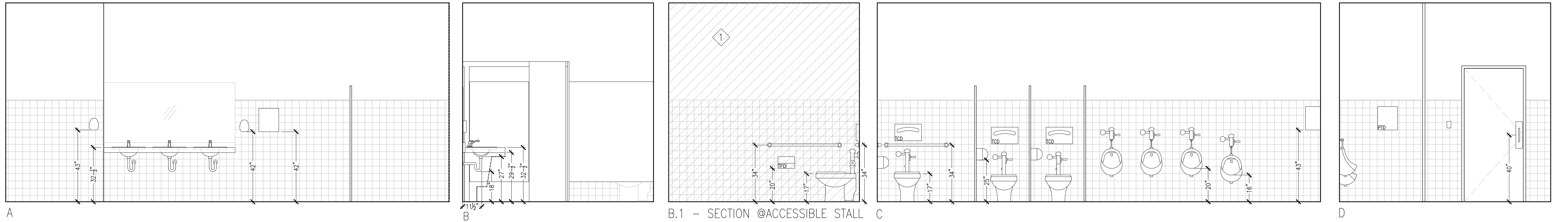


10 EXISTING ELEVATIONS

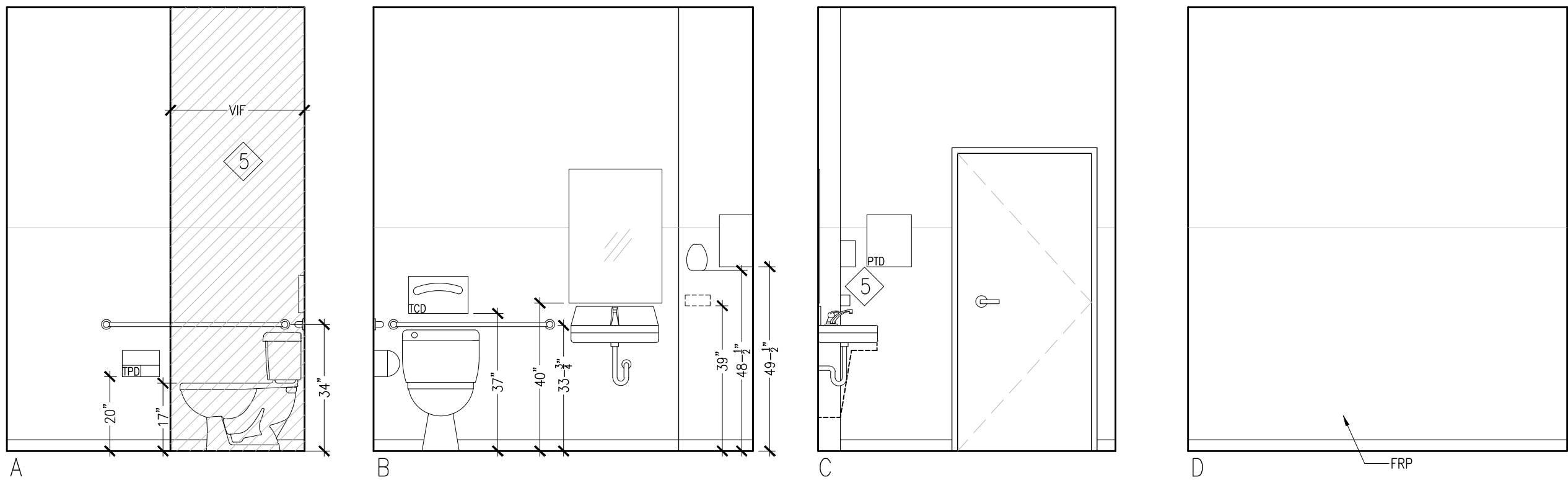
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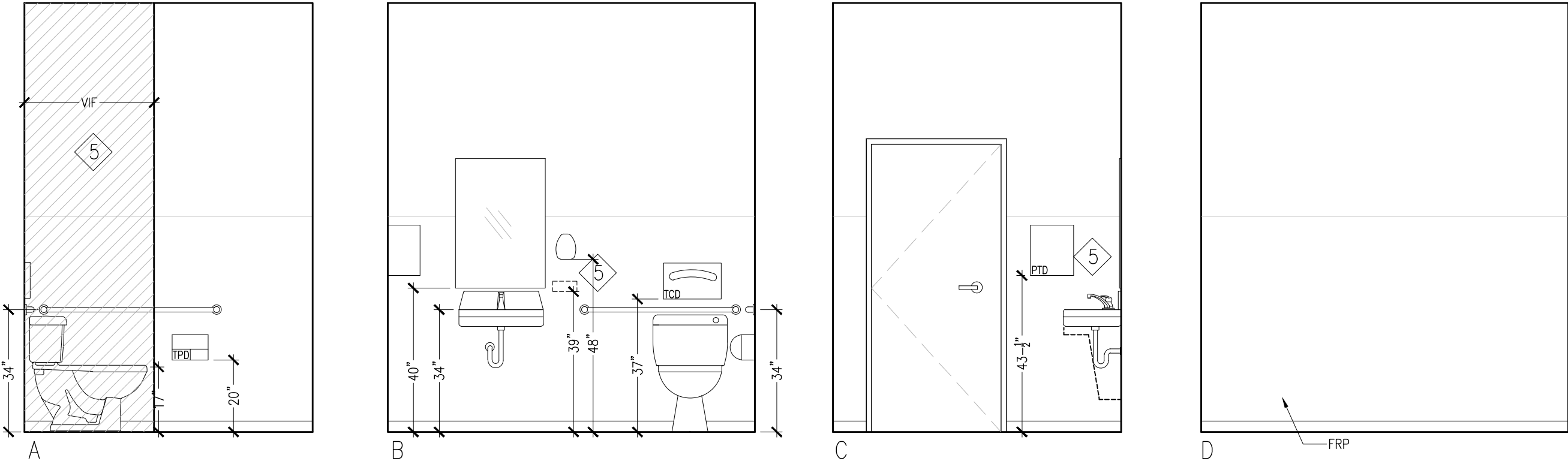
13 EXISTING ELEVATIONS - WOMEN'S RESTROOM



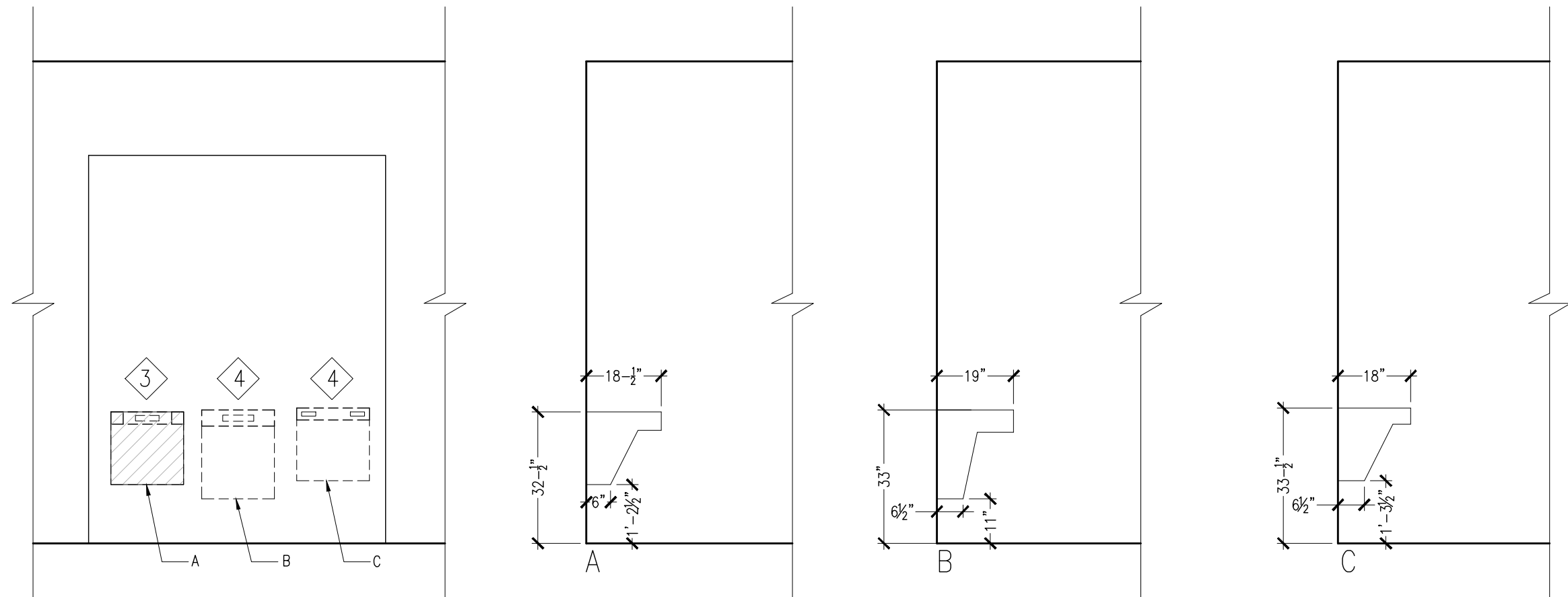
12 EXISTING ELEVATIONS - MEN'S RESTROOM



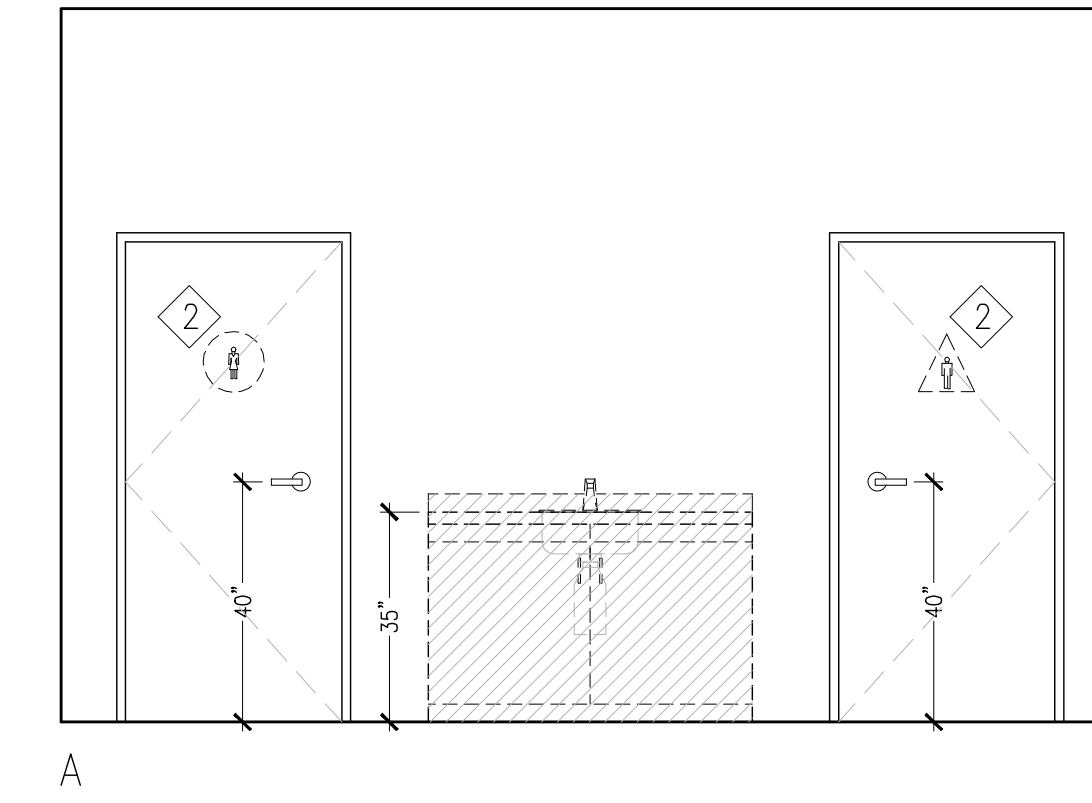
11 EXISTING ELEVATIONS - ADMIN RESTROOM WOMEN



05 EXISTING ELEVATIONS - ADMIN RESTROOMS MEN



10 EXISTING ELEVATIONS - DRINKING FOUNTAINS



04 ANNEX COUNTERTOP/SINK

- SHEET NOTES:**
- 1 DEMOLISH (E) WALL, FRAMING, GWB, TILE, ETC. AND CAP (E) UTILITIES (IF FOUND) TO BE RE-LOCATED (TYP). COORDINATE CORRESPONDING DEMO @ (E) FLOORS, CEILING, AND ALL ADJACENT SPACES THAT WILL BE EFFECTED BY THE DEMO (TYP).
 - 2 REMOVE AND SALVAGE FOR REINSTALLATION (E) RESTROOM SIGNS.
 - 3 REMOVE AND SALVAGE FOR OWNER ONE (1) EXISTING DRINKING FOUNTAIN - SEE 02/A2.01.
 - 4 REMOVE AND SALVAGE FOR REINSTALLATION TWO (2) EXISTING DRINKING FOUNTAINS - SEE 02/D2.01.
 - 5 REMOVE AND SALVAGE FOR REINSTALLATION ACCESSORIES.
 - 6 DEMO WALL AS REQ'D TO ALLOW FOR STRUCTURAL WORK AS SHOWN IN DOCUMENTS, CONTRACTOR SHALL DETERMINE EXTENT OF DEMOLITION TO PERFORM WORK. THIS SHALL DETERMINE EXTENT OF NEW WORK AND SHALL BE INCLUDED CONTRACTOR'S SCOPE (TYP).

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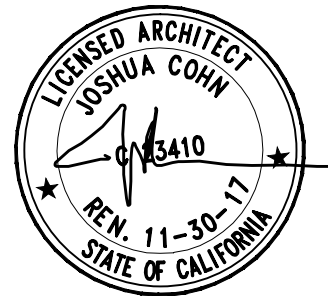
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Vacaville, CA 95688

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PROJECT:
Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

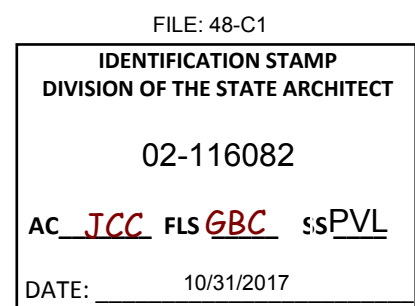
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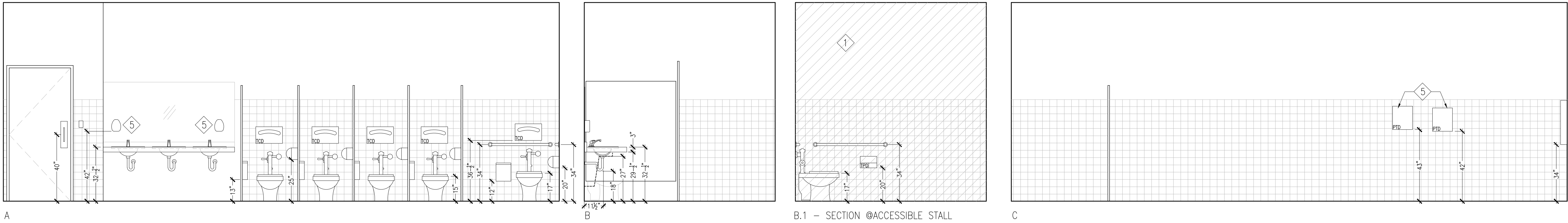
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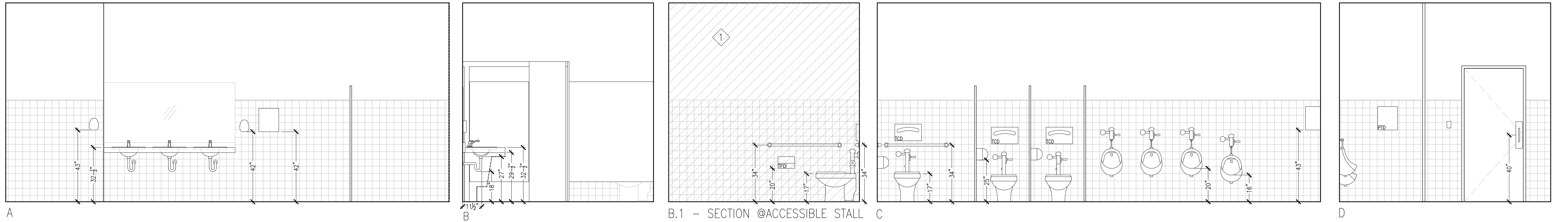


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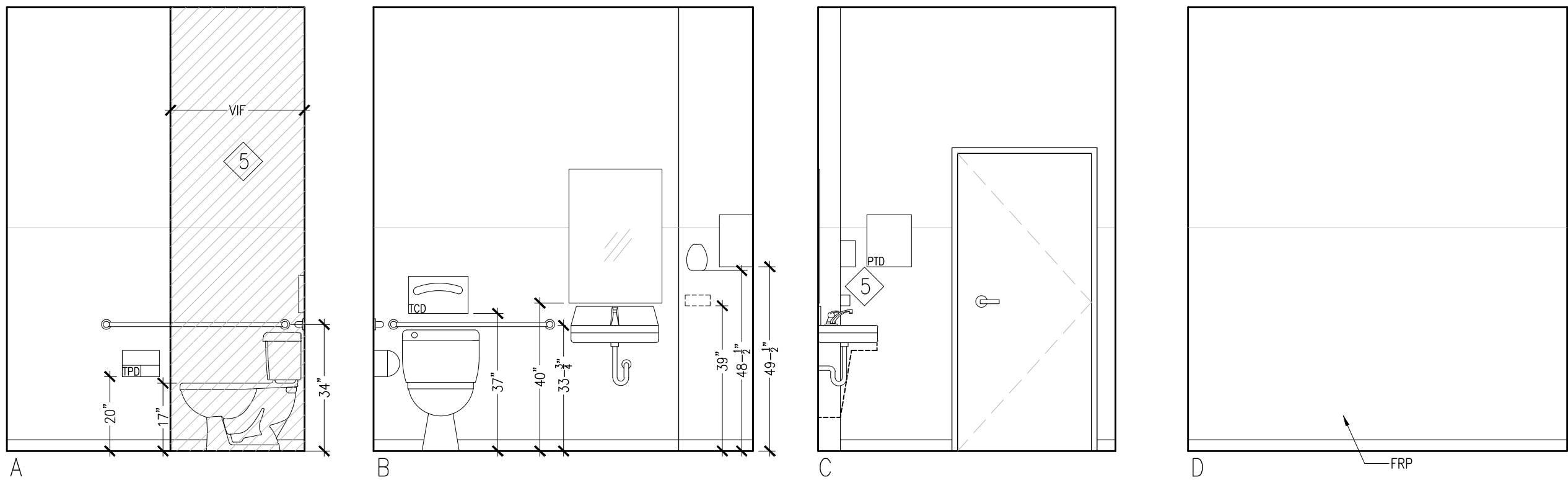
**DEMO/EXISTING
ELEVATIONS
D5.01**



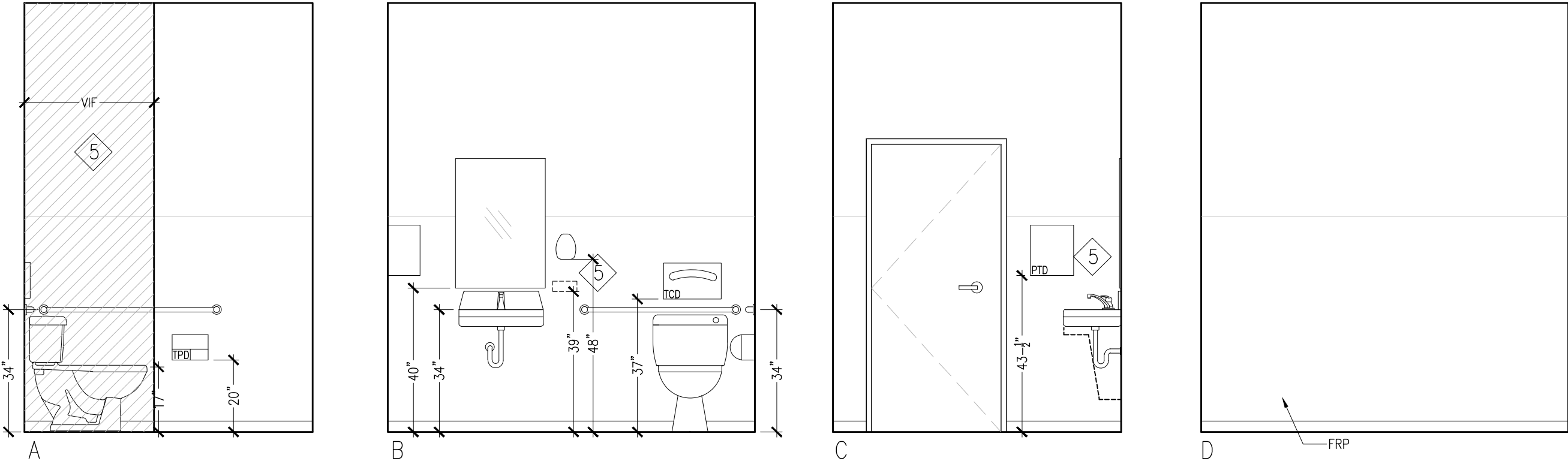
13 EXISTING ELEVATIONS - WOMEN'S RESTROOM



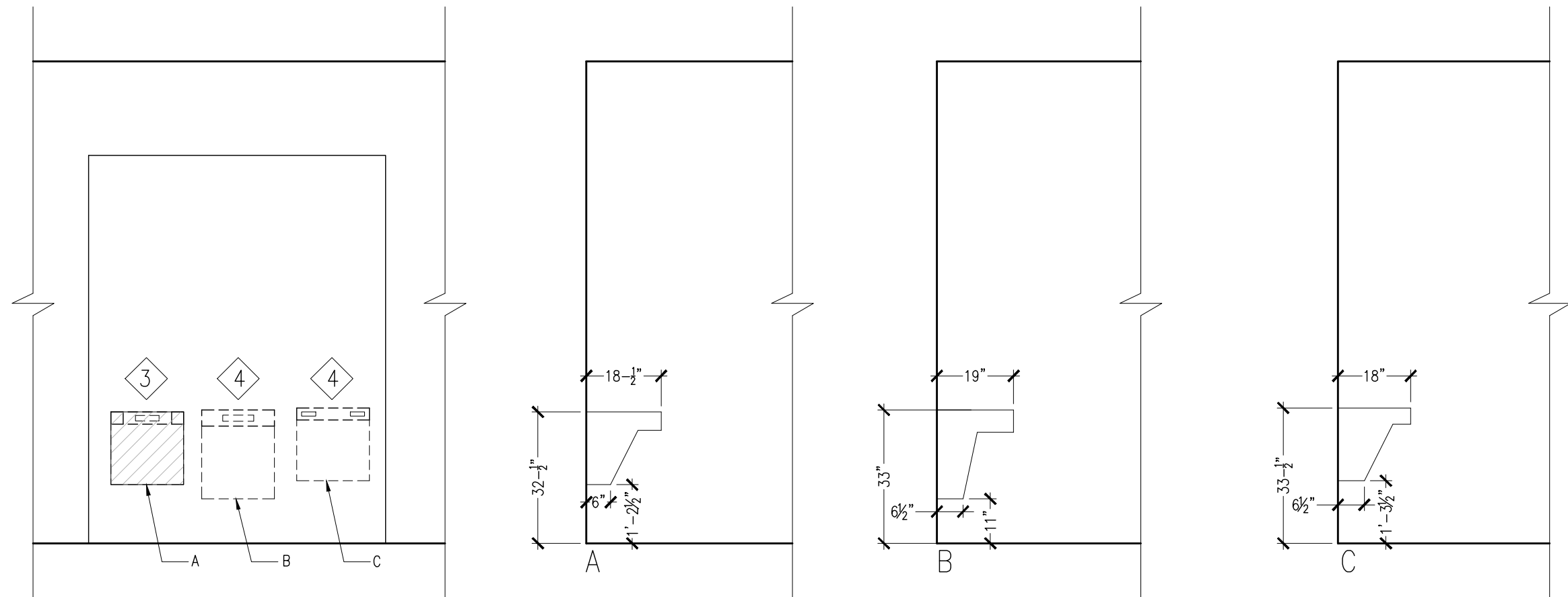
12 EXISTING ELEVATIONS - MEN'S RESTROOM



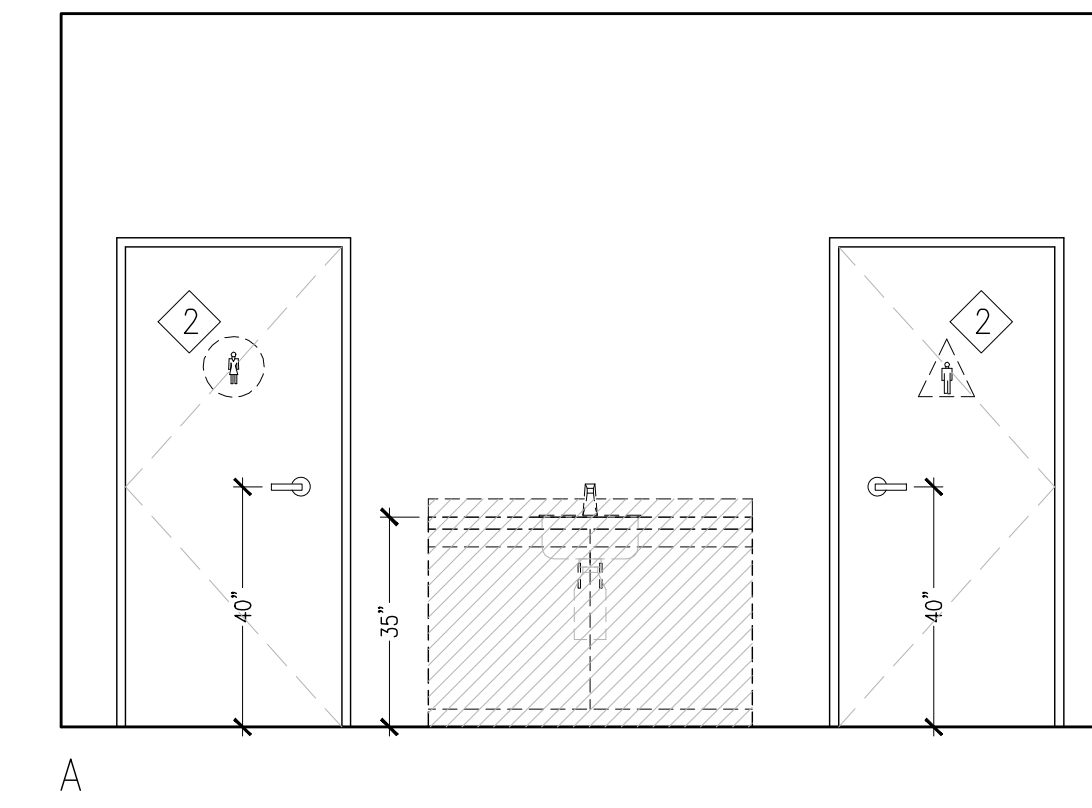
11 EXISTING ELEVATIONS - ADMIN RESTROOM WOMEN



05 EXISTING ELEVATIONS - ADMIN RESTROOMS MEN



10 EXISTING ELEVATIONS - DRINKING FOUNTAINS



04 ANNEX COUNTERTOP/SINK

- SHEET NOTES:**
- 1 DEMOLISH (E) WALL, FRAMING, GWB, TILE, ETC. AND CAP (E) UTILITIES (IF FOUND) TO BE RE-LOCATED (TYP). COORDINATE CORRESPONDING DEMO @ (E) FLOORS, CEILING, AND ALL ADJACENT SPACES THAT WILL BE EFFECTED BY THE DEMO (TYP).
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 - 3 REMOVE AND SALVAGE FOR OWNER ONE (1) EXISTING DRINKING FOUNTAIN - SEE 02/A2.01.
 - 4 REMOVE AND SALVAGE FOR REINSTALLATION TWO (2) EXISTING DRINKING FOUNTAINS - SEE 02/D2.01.
 - 5 REMOVE AND SALVAGE FOR REINSTALLATION ACCESSORIES.
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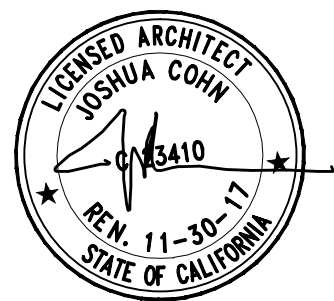
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PROJECT:
Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

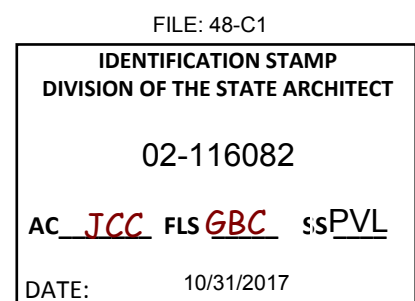
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**DEMO/EXISTING
ELEVATIONS
D5.01**

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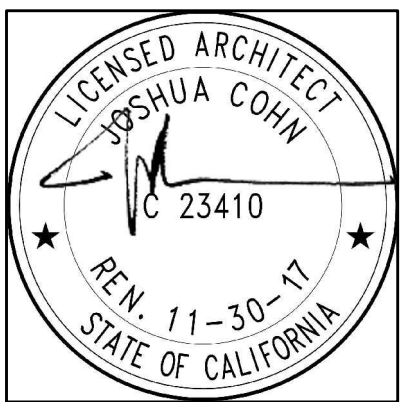
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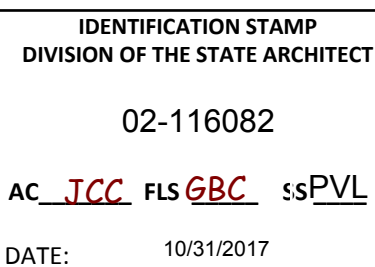
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10/18/2017		DSA BACKCHECK

KEY PLAN:

FILE: 48-C1



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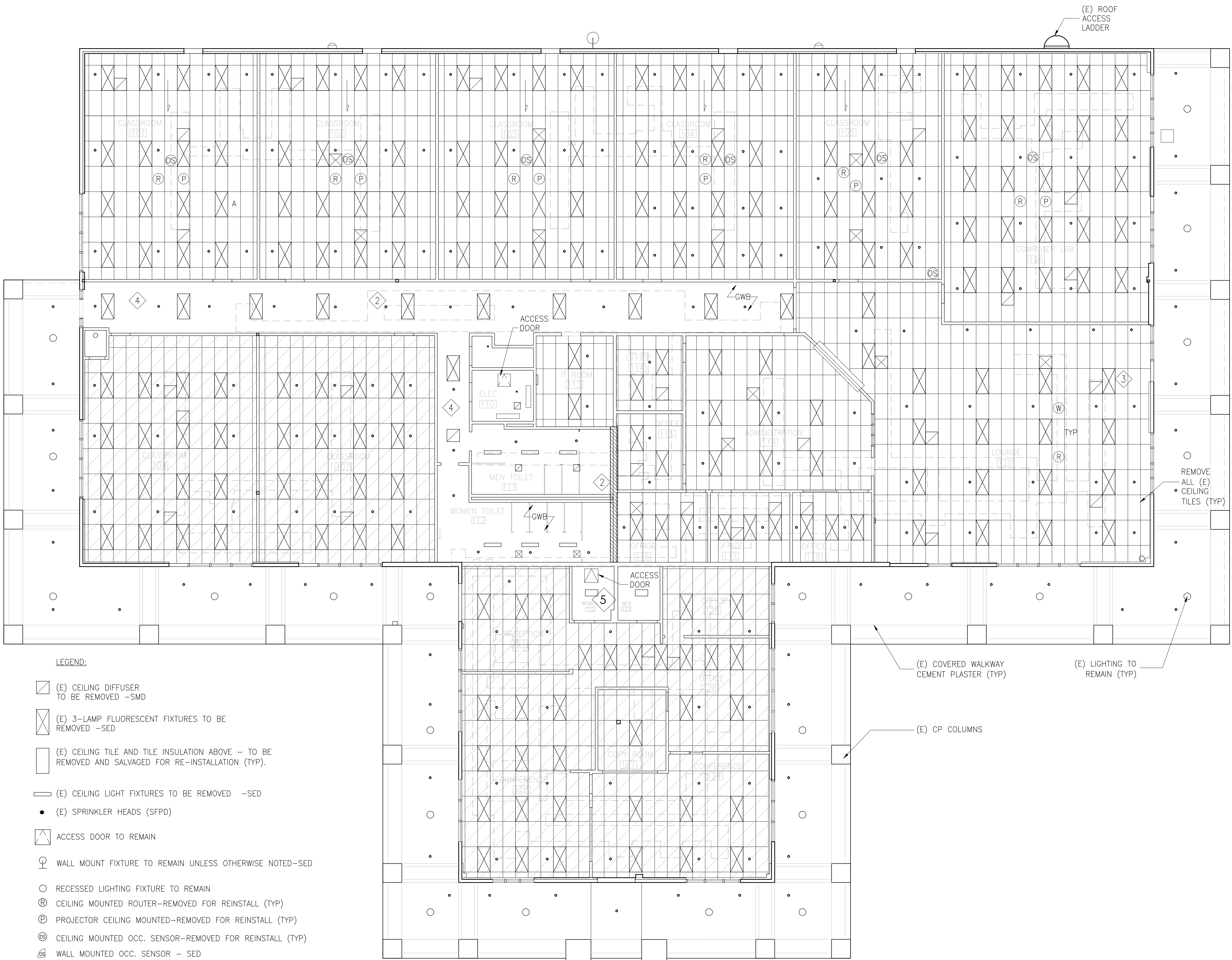
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PROJECT NO:

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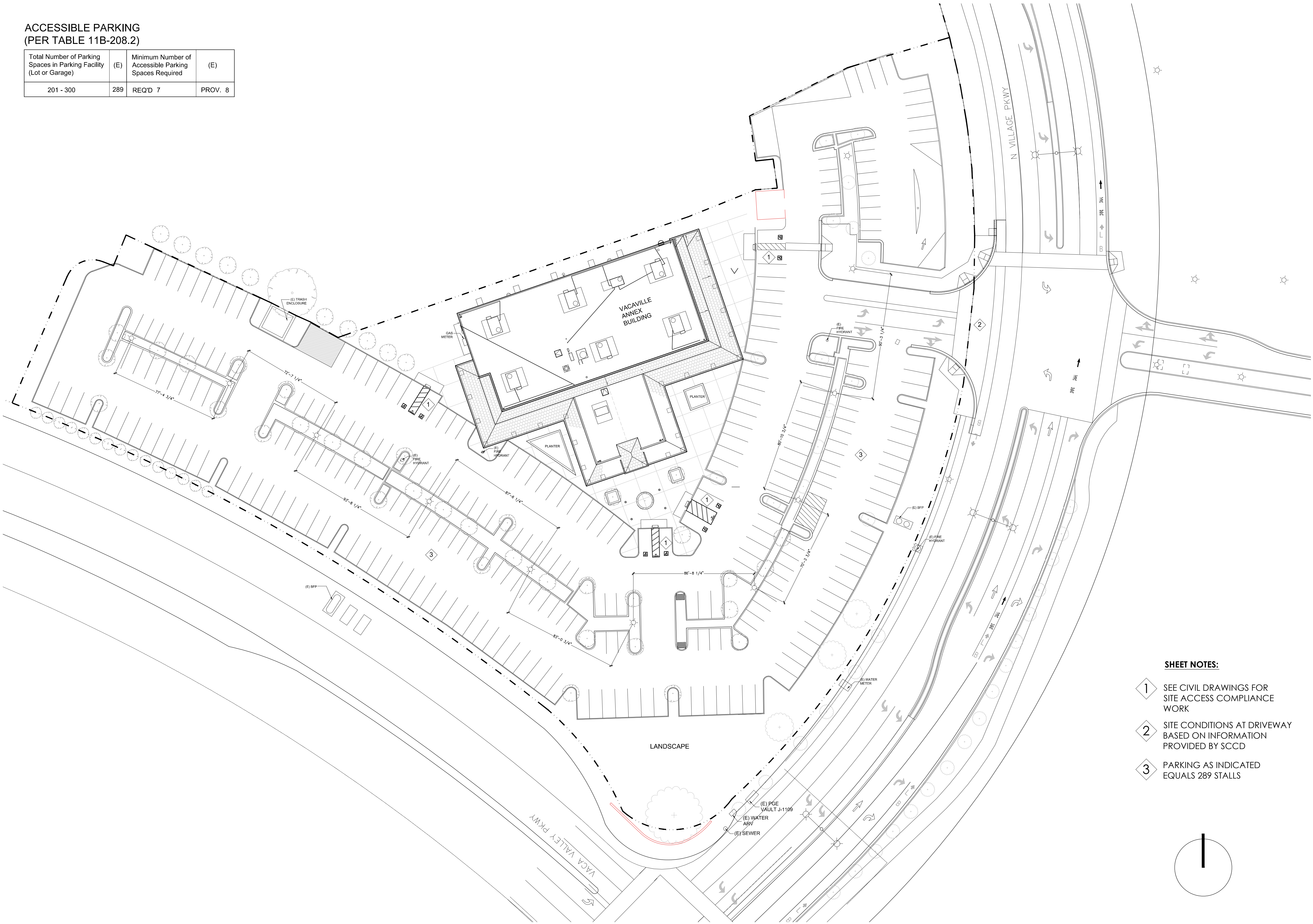
EXISTING/ DEMO
RCP

D6.00



ACCESSIBLE PARKING
(PER TABLE 11B-208.2)

Total Number of Parking Spaces in Parking Facility (Lot or Garage)	(E)	Minimum Number of Accessible Parking Spaces Required	(E)
201 - 300	289	REQ'D 7	PROV. 8



SHEET NOTES:

- 1 SEE CIVIL DRAWINGS FOR SITE ACCESS COMPLIANCE WORK
- 2 SITE CONDITIONS AT DRIVEWAY BASED ON INFORMATION PROVIDED BY SCCD
- 3 PARKING AS INDICATED EQUALS 289 STALLS

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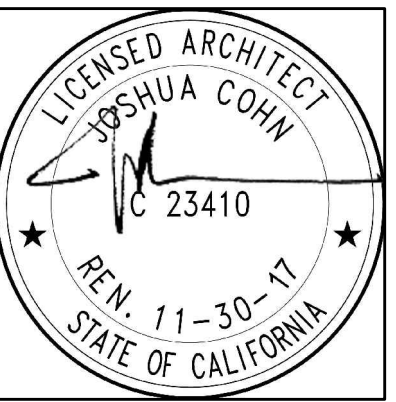
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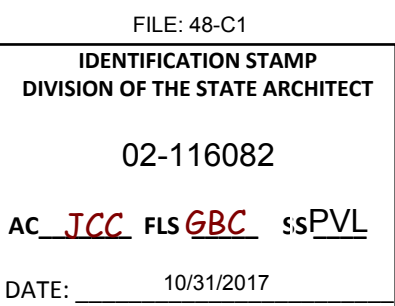


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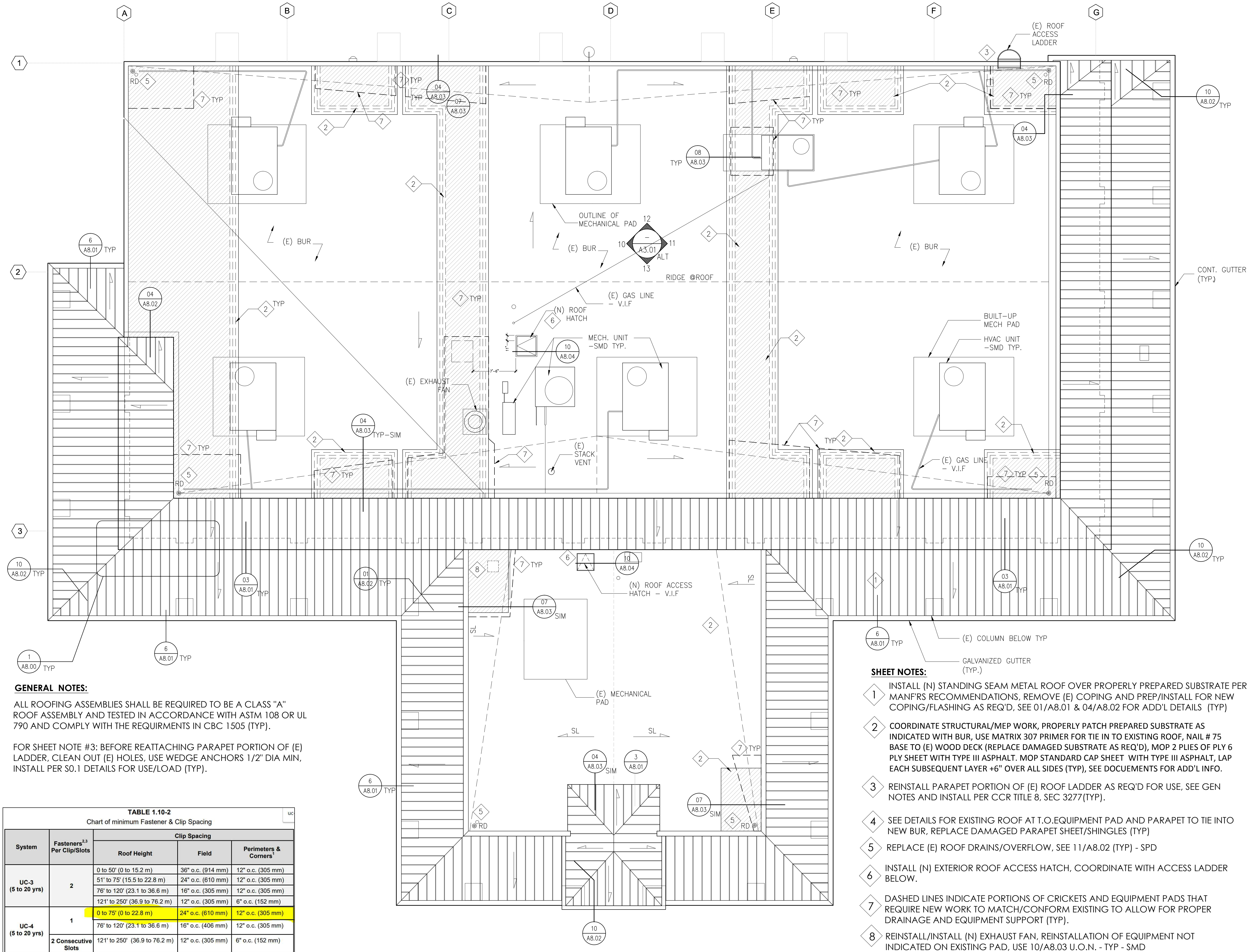
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PROJECT NO:

PERMIT APPLICATION NO:

SITE PLAN

AS1.00



GENERAL NOTES:

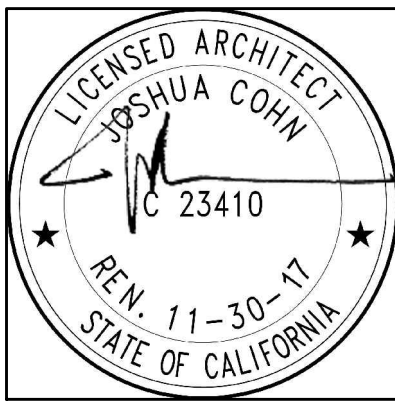
ALL ROOFING ASSEMBLIES SHALL BE REQUIRED TO BE A CLASS "A" ROOF ASSEMBLY AND TESTED IN ACCORDANCE WITH ASTM 108 OR UL 790 AND COMPLY WITH THE REQUIREMENTS IN CBC 1505 (TYP).

FOR SHEET NOTE #3: BEFORE REATTACHING PARAPET PORTION OF (E) LADDER, CLEAN OUT (E) HOLES, USE WEDGE ANCHORS 1/2" DIA MIN, INSTALL PER S0.1 DETAILS FOR USE/LOAD (TYP).

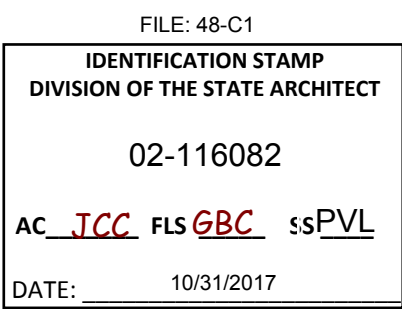
SHEET NOTES:

- 1 INSTALL (N) STANDING SEAM METAL ROOF OVER PROPERLY PREPARED SUBSTRATE PER MANFR'S RECOMMENDATIONS, REMOVE (E) COPING AND PREP/INSTALL FOR NEW COPING/FLASHING AS REQ'D, SEE 01/A8.01 & 04/A8.02 FOR ADD'L DETAILS (TYP)
- 2 COORDINATE STRUCTURAL/MEP WORK, PROPERLY PATCH PREPARED SUBSTRATE AS INDICATED WITH BUR, USE MATRIX 307 PRIMER FOR TIE IN TO EXISTING ROOF, NAIL # 75 BASE TO (E) WOOD DECK (REPLACE DAMAGED SUBSTRATE AS REQ'D), MOP 2 PLIES OF PLY 6 PLY SHEET WITH TYPE III ASPHALT. MOP STANDARD CAP SHEET WITH TYPE III ASPHALT, LAP EACH SUBSEQUENT LAYER +6" OVER ALL SIDES (TYP), SEE DOCUMENTS FOR ADD'L INFO.
- 3 REINSTALL PARAPET PORTION OF (E) ROOF LADDER AS REQ'D FOR USE, SEE GEN NOTES AND INSTALL PER CCR TITLE 8, SEC 3277(TYP).
- 4 SEE DETAILS FOR EXISTING ROOF AT T.O.EQUIPMENT PAD AND PARAPET TO TIE INTO NEW BUR, REPLACE DAMAGED PARAPET SHEET/SHINGLES (TYP)
- 5 REPLACE (E) ROOF DRAINS/OVERFLOW, SEE 11/A8.02 (TYP) - SPD
- 6 INSTALL (N) EXTERIOR ROOF ACCESS HATCH, COORDINATE WITH ACCESS LADDER BELOW.
- 7 DASHED LINES INDICATE PORTIONS OF CRICKETS AND EQUIPMENT PADS THAT REQUIRE NEW WORK TO MATCH/CONFORM EXISTING TO ALLOW FOR PROPER DRAINAGE AND EQUIPMENT SUPPORT (TYP).
- 8 REINSTALL/INSTALL (N) EXHAUST FAN, REINSTALLATION OF EQUIPMENT NOT INDICATED ON EXISTING PAD, USE 10/A8.03 U.O.N. - TYP - SMD

TABLE 1.10-2 Chart of minimum Fastener & Clip Spacing				
System	Fasteners ^{2,3} Per Clip/Slots	Clip Spacing		
		Roof Height	Field	Perimeters & Corners ¹
UC-3 (5 to 20 yrs)	2	0 to 50' (0 to 15.2 m)	36" o.c. (914 mm)	12" o.c. (305 mm)
		51' to 75' (15.5 to 22.8 m)	24" o.c. (610 mm)	12" o.c. (305 mm)
		76' to 120' (23.1 to 36.6 m)	16" o.c. (305 mm)	12" o.c. (305 mm)
		121' to 250' (36.9 to 76.2 m)	12" o.c. (305 mm)	6" o.c. (152 mm)
UC-4 (5 to 20 yrs)	1	0 to 75' (0 to 22.8 m)	24" o.c. (610 mm)	12" o.c. (305 mm)
		76' to 120' (23.1 to 36.6 m)	16" o.c. (406 mm)	12" o.c. (305 mm)
	2 Consecutive Slots	121' to 250' (36.9 to 76.2 m)	12" o.c. (305 mm)	6" o.c. (152 mm)



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Vacaville Classroom Building (Annex) Renovation Project

A circular professional engineer seal for the State of California. The outer ring contains the text "LICENSED ARCHITECT" at the top and "STATE OF CALIFORNIA" at the bottom. Inside the ring, the name "JOSHUA COHN" is written in an arc. Below the name is a stylized signature. Under the signature is the license number "C 23410". At the bottom of the seal, the renewal date "REN. 11-30-17" is written. Two five-pointed stars are positioned on the left and right sides of the seal, flanking the renewal date.

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FILE: 48-C1

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

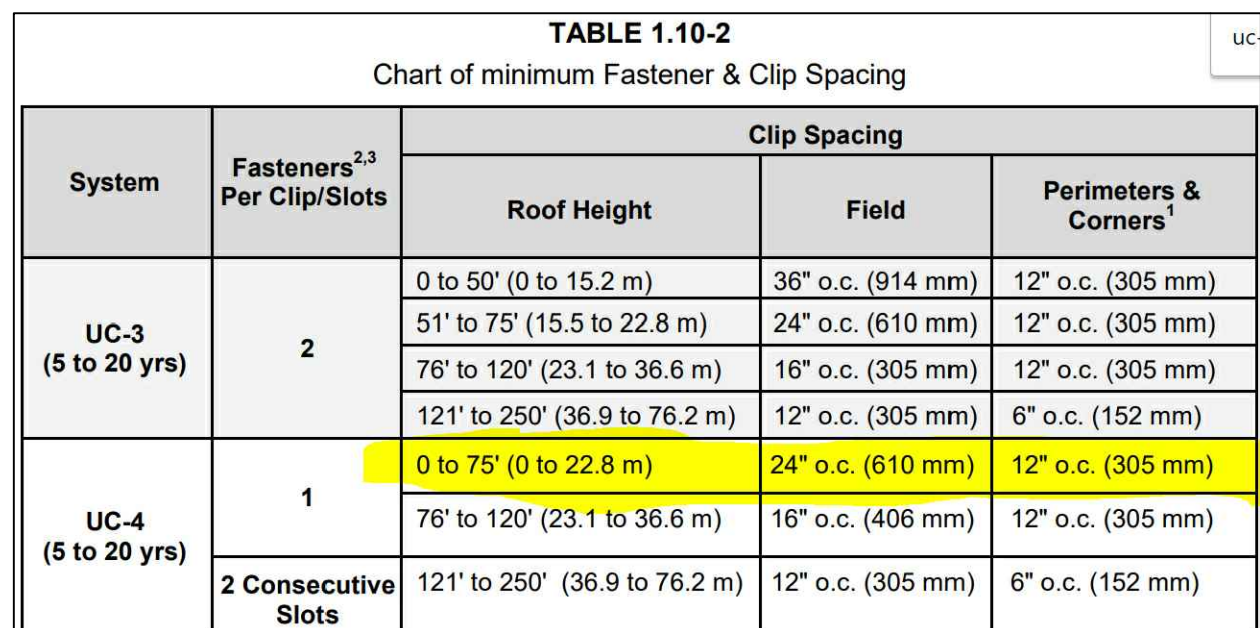
02-116082

AC JCC FLS GBC ss PVL

DATE: 10/31/2017

ROOF PLAN

A1.01 ALT



USE (2) # 12 SS
SCREWS PER
CLIP (TYP)

1 INSTALL (N) STANDING SEAM METAL ROOF

2 REPLACE (E) BUILT-UP ROOF (BUR) WITH NEW BUR (TYP). INSTALL (N) BUR OVER PROPERLY PREPARED SUBSTRATE (INC. CRICKET). NAIL # 75 BASE TO WOOD DECK, MOP 2 PLYS OF PLY 6 PLY SHEET WITH TYPE III ASPHALT, MOP STANDARD ENERGYCAP SHEET T 24 COMPLIANT WITH TYPE III ASPHALT (TYP)

3 RE-INSTALL (E) ROOF ACCESS LADDER IF REQUIRED,
RE-INSTALL PER TITLE 8, CCR SEC 3277(TYP).

SEE DETAILS FOR EXISTING ROOF AT T.O.EQUIPMENT PAD AND PARAPET TO TIE INTO NEW BUR, REPLACE DAMAGED PARAPET SHEET/SHINGLES (TYP)

REPLACE (E) ROOF DRAINS/OVERFLOW, SEE 11/A8.02 (TYP) - SPD

6 INSTALL (N) EXTERIOR ROOF ACCESS HATCH, COORDINATE WITH ACCESS LADDER LOCATION BELOW.

DASHED LINES INDICATE PORTIONS OF CRICKETS AND EQUIPMENT PADS THAT REQUIRE NEW WORK TO MATCH/CONFORM EXISTING TO ALLOW FOR PROPER DRAINAGE AND EQUIPMENT SUPPORT (TYP).

8 REINSTALL/INSTALL (N) EXHAUST FAN, REINSTALLATION OF
EQUIPMENT NOT INDICATED ON EXISTING PAD, USE 10/A8.03
U.O.N. - TYP - SMD

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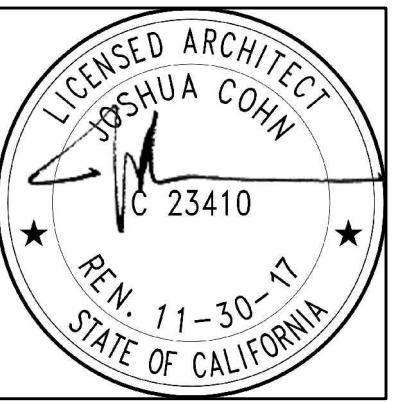
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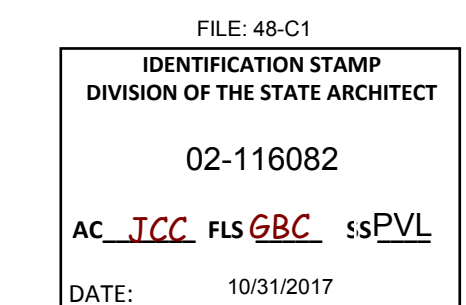


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KEY PLAN:



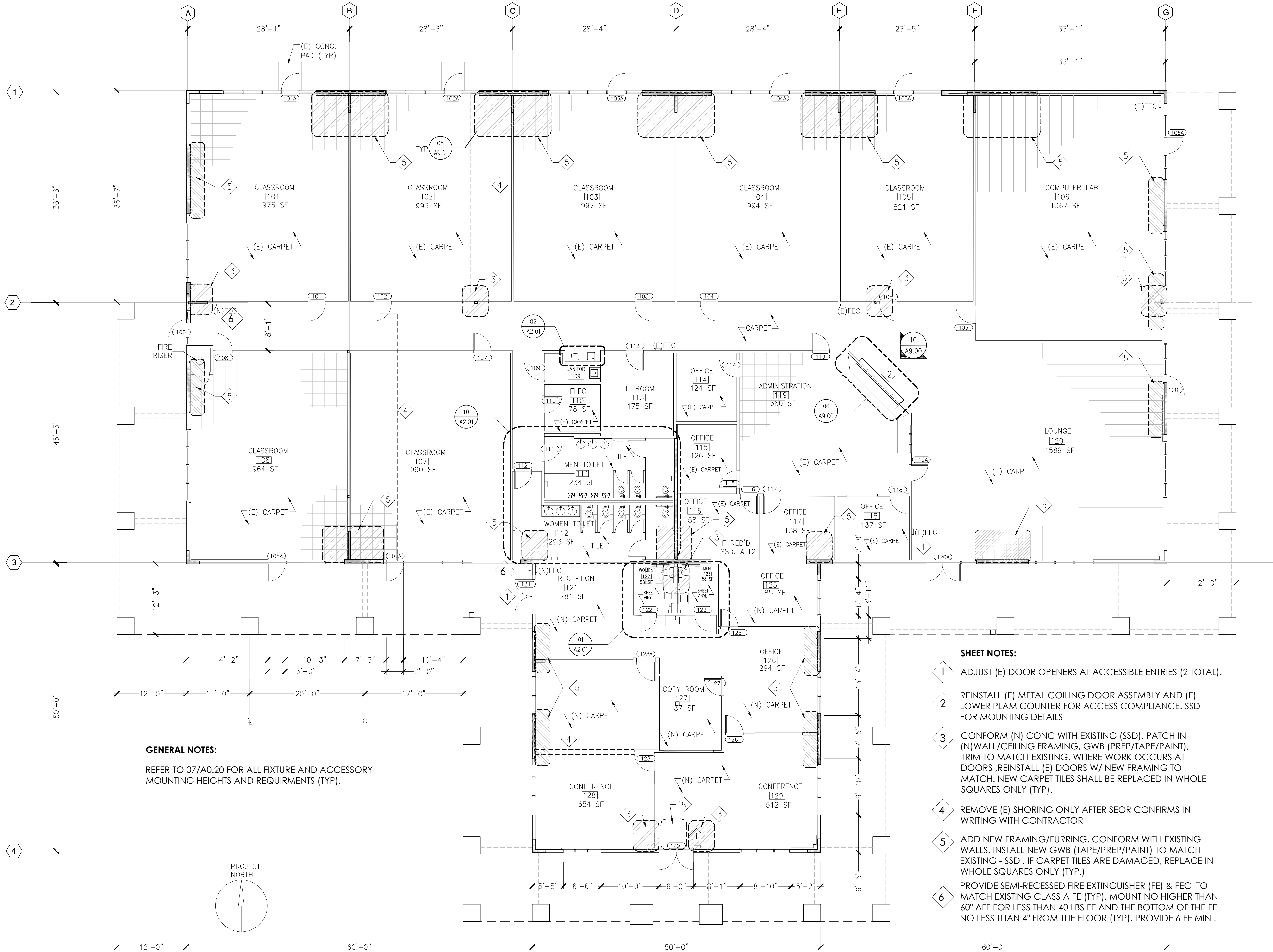
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FLOOR PLAN

A2.00



GENERAL NOTES:

REFER TO 07/A0.20 FOR ALL FIXTURE AND ACCESSORY
MOUNTING HEIGHTS AND REQUIRMENTS (TYP).

SHEET NOTES:

- ADJUST (E) DOOR OPENERS AT ACCESSIBLE ENTRIES (2 TOTAL).
- REINSTALL (E) METAL COILING DOOR ASSEMBLY AND (E) LOWER PLAM COUNTER FOR ACCESS COMPLIANCE. SSD FOR MOUNTING DETAILS
- CONFORM (N) CONC WITH EXISTING (SSD), PATCH IN (N)WALL/CEILING FRAMING, GWB (PREP/TAPE/PAINT), TRIM TO MATCH EXISTING. WHERE WORK OCCURS AT DOORS ,REINSTALL (E) DOORS W/ NEW FRAMING TO MATCH. NEW CARPET TILES SHALL BE REPLACED IN WHOLE SQUARES ONLY (TYP).
- REMOVE (E) SHORING ONLY AFTER SEOR CONFIRMS IN WRITING WITH CONTRACTOR
- ADD NEW FRAMING/FURRING, CONFORM WITH EXISTING WALLS, INSTALL NEW GWB (TAPE/PREP/PAINT) TO MATCH EXISTING - SSD . IF CARPET TILES ARE DAMAGED, REPLACE IN WHOLE SQUARES ONLY (TYP.)
- PROVIDE SEMI-RECESSED FIRE EXTINGUISHER (FE) & FEC TO MATCH EXISTING CLASS A FE (TYP), MOUNT NO HIGHER THAN 60" AFF FOR LESS THAN 40 LBS FE AND THE BOTTOM OF THE FE NO LESS THAN 4" FROM THE FLOOR (TYP). PROVIDE 6 FE MIN .

SHEET NOTES:

- 1

INSTALL ACCESSIBLE SINK CABINET, ADA ACCESSIBLE COUNTER, SINK AND FAUCET (SPD, PREP AND PAINT WALL AND BASEBOARD TRIM TO MATCH EXISTING (TYP).
- 2

RE-SPACE AND RE-INSTALL (2) DRINKING FOUNTAINS B & C - SEE 02/D2.01 AND 02/A2.01, PROVIDE ALL NECESSARY BACKING REQUIRED TO RE-HANG (E) DRINKING FOUNTAIN (TYP). RE-FRAME AND ADD (N) GWB TO MATCH (E), TAPE AND PAINT TO MATCH (TYP).
- 3

PROVIDE (N) CONCRETE SLAB WITH WP. BELOW, DOWEL (SEE SSD) AND CONFORM TO ALLOW (N) TILE TO ALIGN WITH EXISTING ADJACENT FLOOR. NEW TILE/GROUT TO MATCH (E) TYP.
- 4

MOVE AND REINSTALL ALL ACCESSORIES/GRAB BARS, MIRRORS, PROVIDE ADEQUATE BACKING FOR ALL WALL MTD. WORK TYP. USE BACKING FOR MED. LOADS (MIN) 04/A9.01 WITH 3-#10 SCREWS MIN AT ENDS TO SUPPORT MIN LOAD OF 250LBS.
- 5

REINSTALL TWO (2) EXISTING TOILETS (SPD), AND ALL ADJACENT ACCESSORIES, GRAB BARS, CARRIERS, WASTE LINES, WATER SUPPLY LINES TO NEW LOCATION AS SHOWN FOR ACCESS COMPLIANCE. INSTALL NEW WALL FRAMING/GWB, TILE WALL/FLOOR (TO MATCH EXISTING), PROVIDE BACKING AS REQ'D TO RE-ATTACH EXISTING ACCESSORIES AND GRAB-BARS (TYP.).
- 6

REHANG (E) MIRRORS TO BE HEIGHT COMPLIANT SEE A5.01.
- 7

MOVE TOTAL OF 5 (FIVE) ACCESSORIES TO BE COMPLIANT. - SEE A5.01
- 8

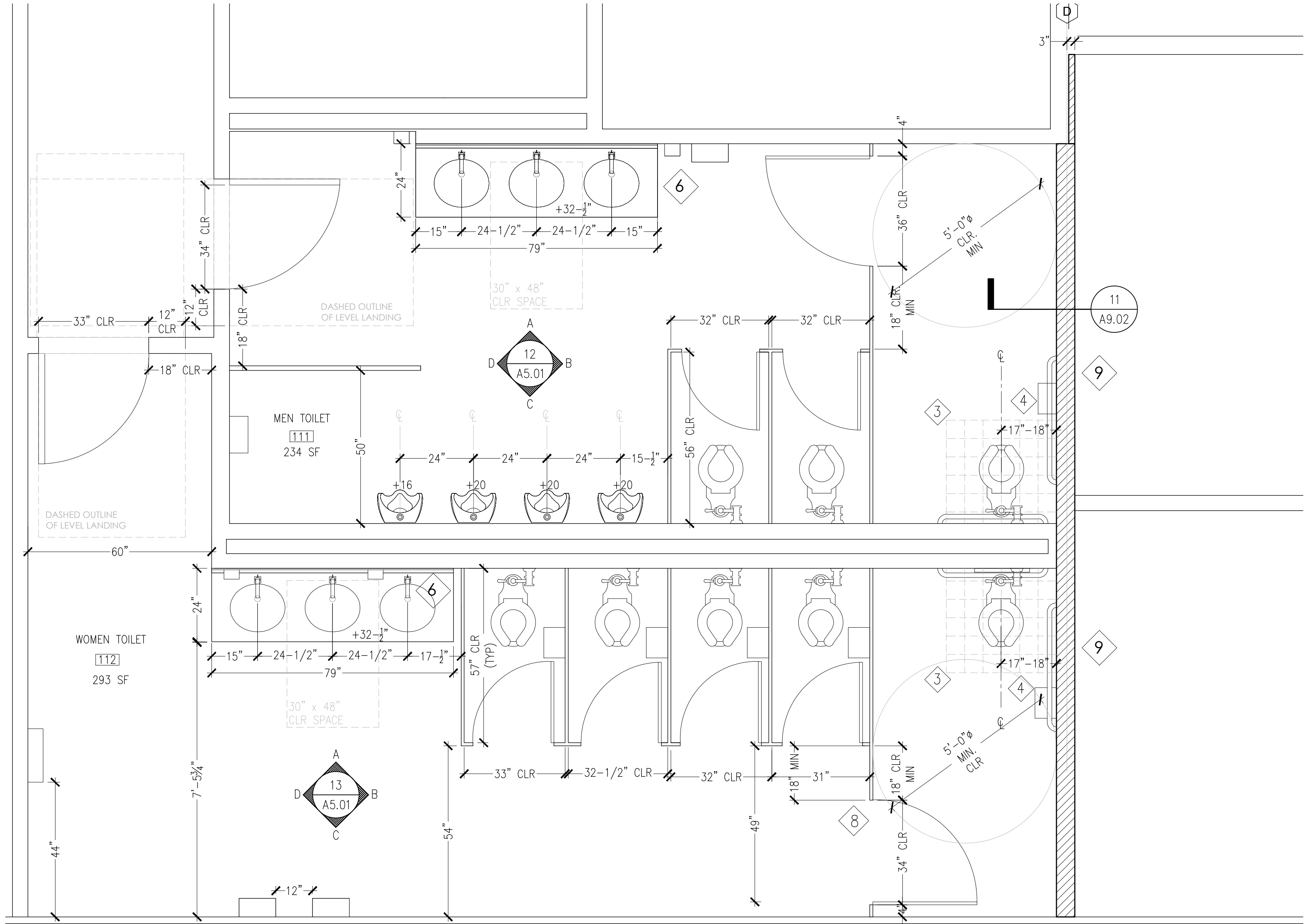
PARTITION DOOR AT WOMEN RESTROOM 112 TO BE MOVED 4" DOWN TO PROVIDE 18" CLEAR SPACE AT OPENING, RE-HAND (E) DOOR TO ALLOW IN-SWING, PROVIDE DOOR HARDWARE TO ALLOW AS REQ'D.
- 9

PROVIDE CARPET TILES AND BASE TRIM AS REQUIRED. REINSTALL ALL WALL ACCESSORIES AS REQ'D, PREP/PAINT (N) WALL/TRIM TO MATCH EXISTING. ONLY REPLACE CARPET TILES IN WHOLE SQUARES ONLY (TYP).
- 10

INSTALL (N) ROOF ACCESS HATCH AT ROOM ABOVE 122, SEE 10/A8.03.
- 11

CONFORM NEW CONC SLAB WITH EXISTING, ADD DOWELS/WATERPROOFING AS REQ'D (SSD), PATCH IN AND WELD SEAMS AT NEW SHEET VINYL TO MATCH EXISTING AT FLOOR AND COVE BASE (TYP.) INSTALL NEW FRAMING GWB (COMPLIANT WITH TOILET ROOM) AND PATCH/PREP/PAINT TO MATCH EXISTING. REINSTALL ALL ACCESSORIES FOR COMPLIANCE FOR ACCESS (WITH BACKING) AND REINSTALL (E) TOILETS TYP.).

GENERAL NOTE: REFER TO 07/A0.20 FOR ALL FIXTURE HEIGHTS AND REQUIRMENTS (TYP).

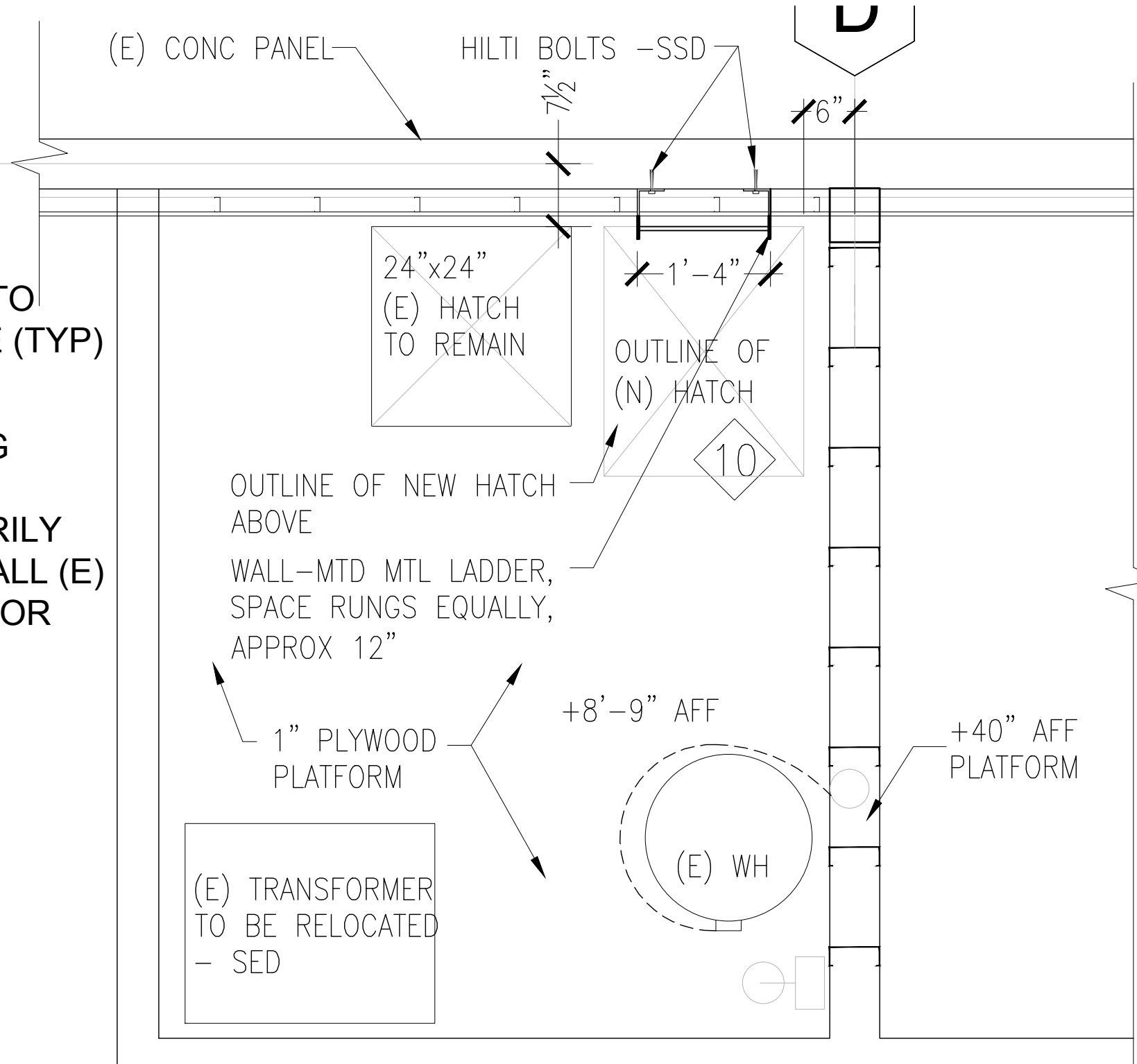


10 TOILET ROOMS 111 & 112

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

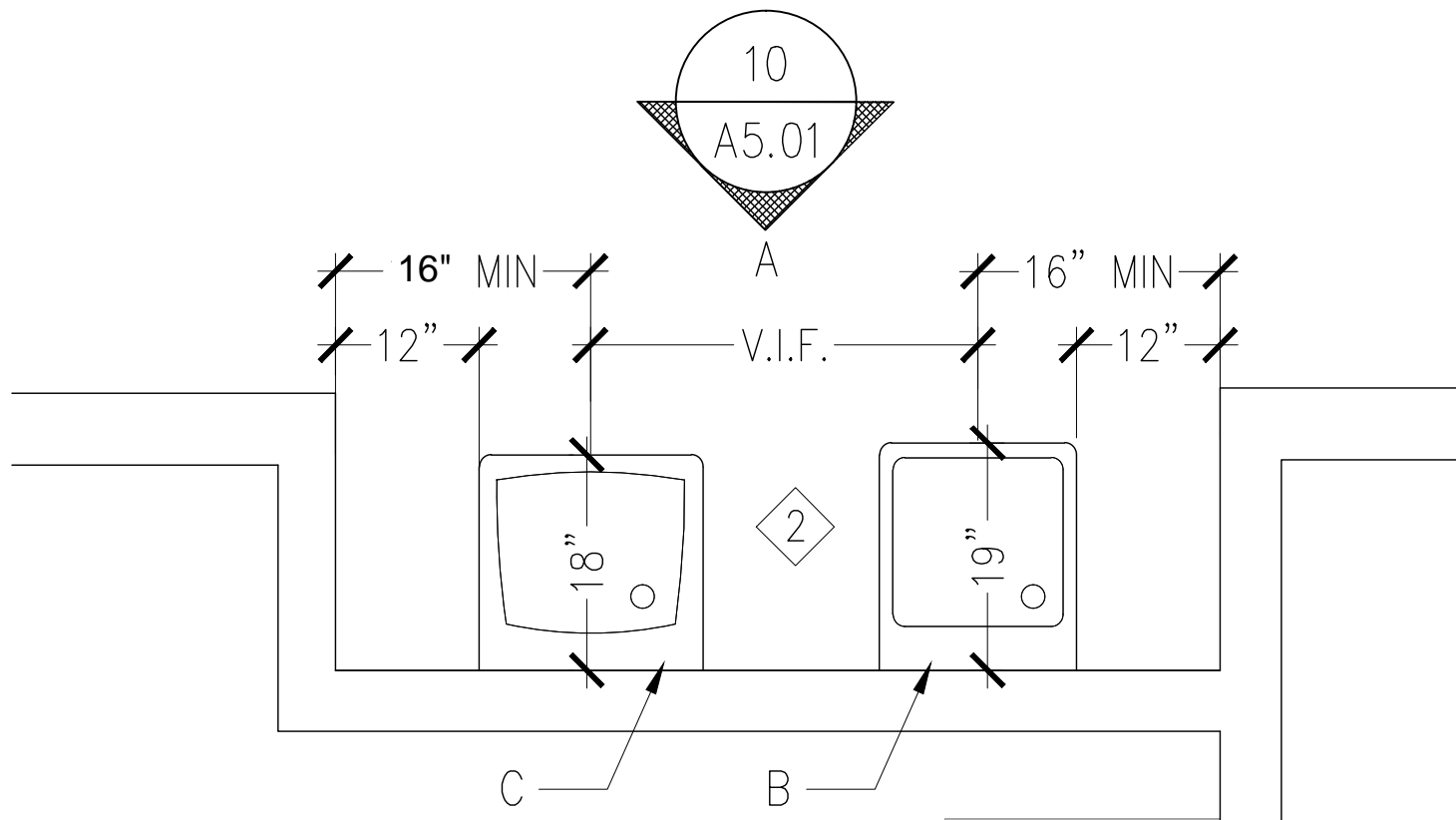
GEN NOTE:
NO STUDENT ACCESS TO
ATTIC OR ROOF ABOVE (TYP)

SEE S2.1 FOR FRAMING
REQUIREMENTS FOR
PLATFORM. TEMPORARILY
REMOVE AND RE-INSTALL (E)
EQUIPMENT IF REQ'D FOR
NEW FRAMING AND
SUPPORT (TYP)



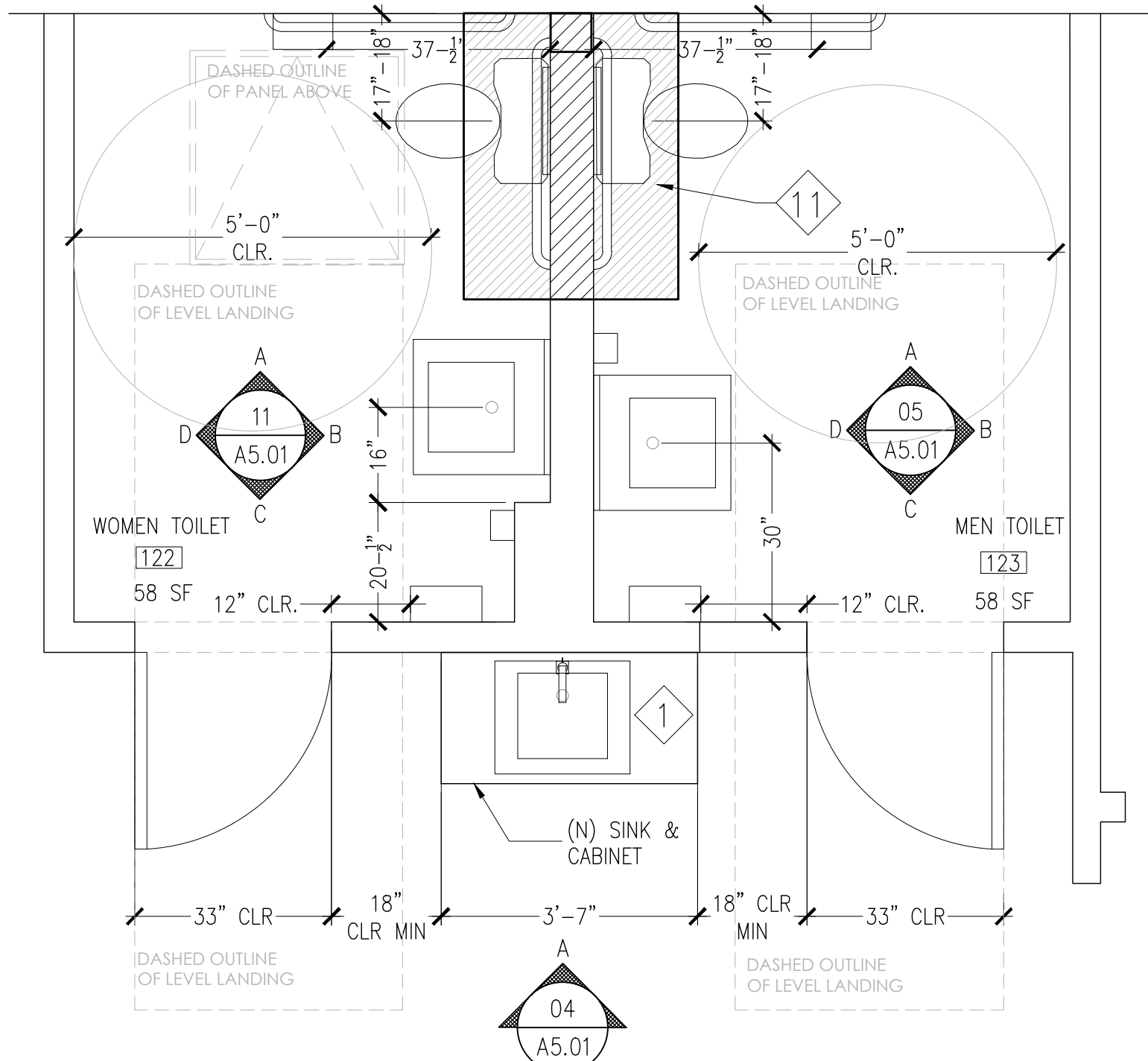
03 PLENUM PLATFORM ABOVE BATHROOM

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



02 EXISTING DRINKING FOUNTAINS

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



01 TOILET ROOMS 122 & 123 - ADMIN AREA

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

OWNER:

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

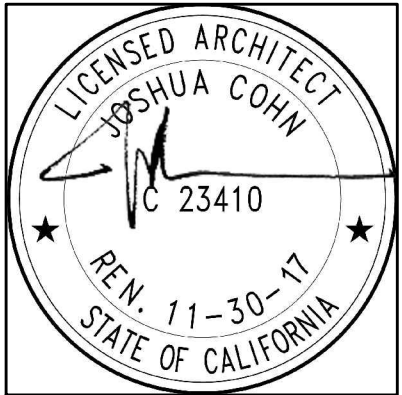
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Sausalito, CA 94965
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F 415.331.7656

PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

STAMP

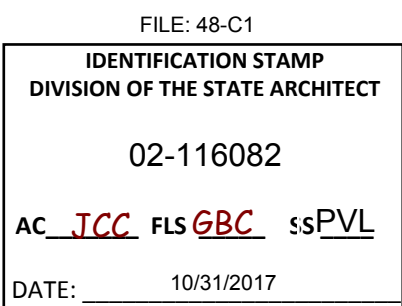


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SCALE:

DATE:

PROJECT NO:

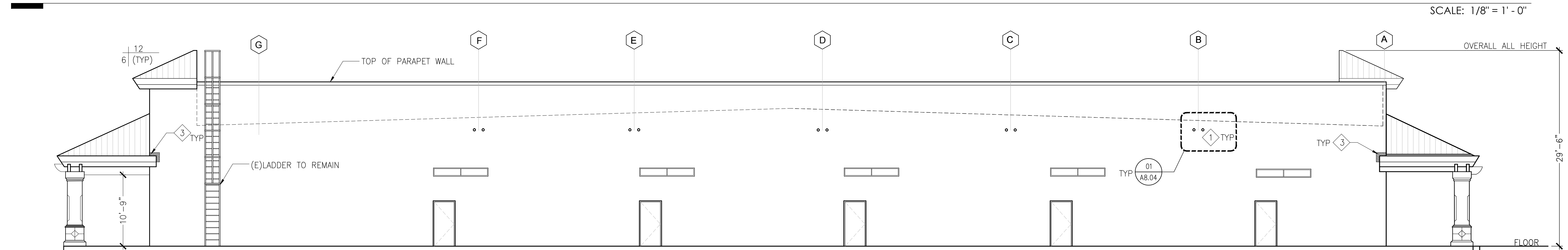
PERMIT APPLICATION NO.:

ENLARGED PLANS
TOILET ROOMS &
DRINKING FOUNTAINS

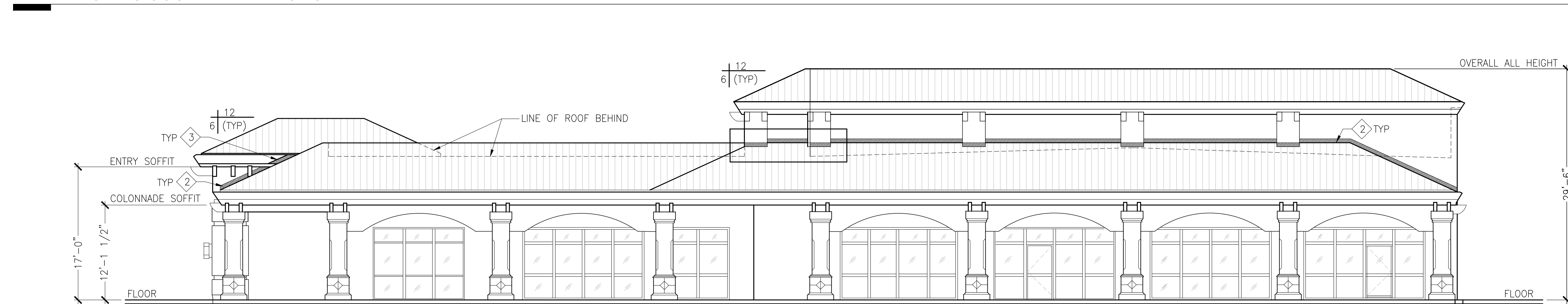
A2.01



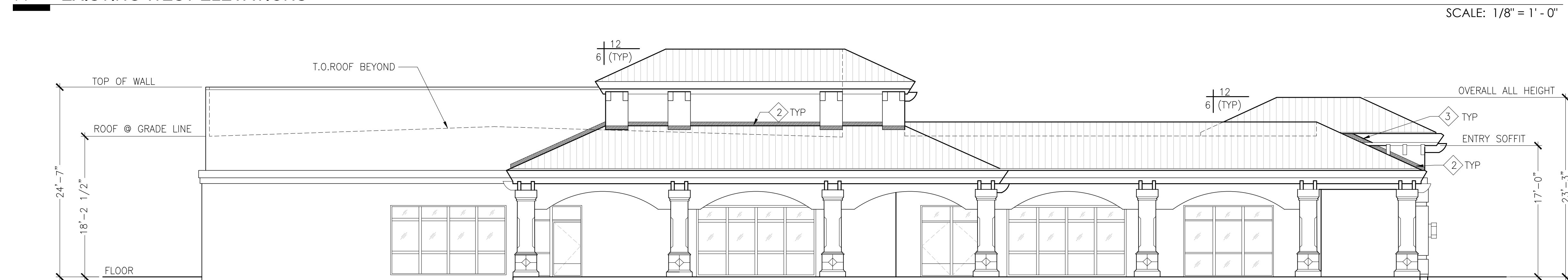
13 EXISTING NORTH ELEVATIONS



12 EXISTING SOUTH ELEVATIONS



11 EXISTING WEST ELEVATIONS



10 EXISTING EAST ELEVATIONS

- SHEET NOTES:**
- (N) BOLT CONNECTIONS AT CONCRETE PANEL - SEE 1/A8.04 - SSD
 - NEW FLASHING/CEMENT PLASTER/WATERPROOFING AS REQ'D TO INSTALL NEW ROOF-SEE 4/A8.01 (TYP.)
 - WHERE METAL ROOF TERMINATES INTO (E) WALL, PROVIDE APPROPRIATE FLASHING/COUNTERFLASHING AS REQ'D PER MFR'S RECOMMENDATIONS (TYP).

GENERAL NOTES:

ALL ROOFING ASSEMBLIES SHALL BE REQUIRED TO BE A CLASS "A" ROOF ASSEMBLY AND TESTED IN ACCORDANCE WITH ASTM 108 OR UL 790 AND COMPLY WITH THE REQUIREMENTS IN CBC 1505 (TYP).

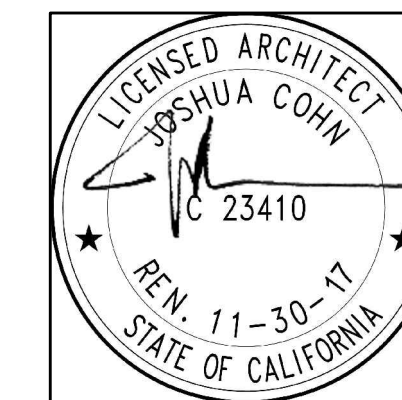
OWNER:
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2000 North Village Parkway
Vacaville, CA 95688

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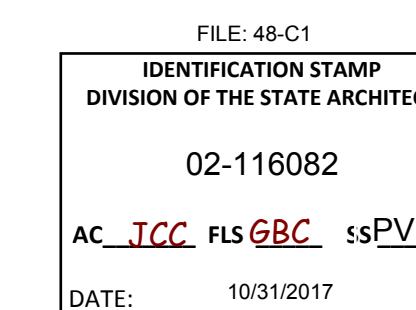
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10/18/2017		DSA BACKCHECK

KEY PLAN:



DATE:
PROJECT NO:
PERMIT APPLICATION NO.:

EXTERIOR
ELEVATIONS
A3.00

OWNER:

Solano Community College Distric
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

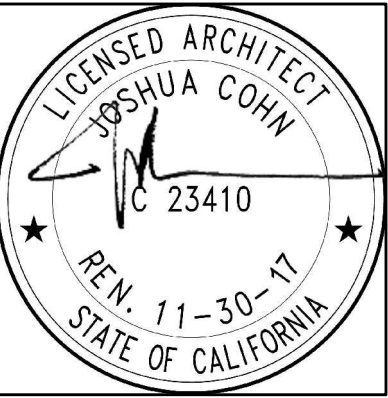
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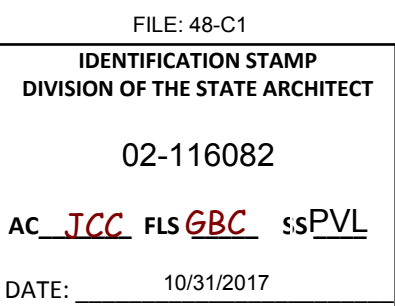


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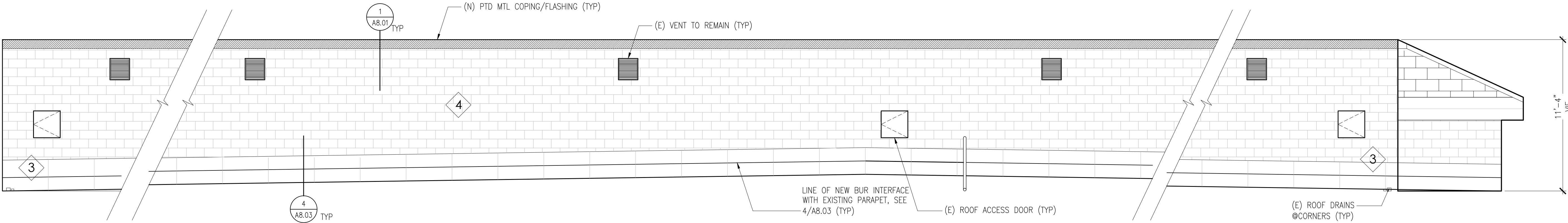
KEY PLAN:



DATE:
PROJECT NO:
PERMIT APPLICATION NO.:

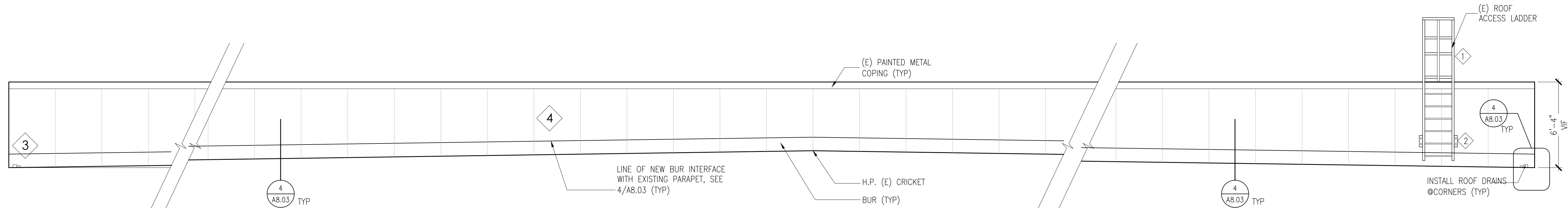
PARAPET ELEVATIONS

A3.01ALT



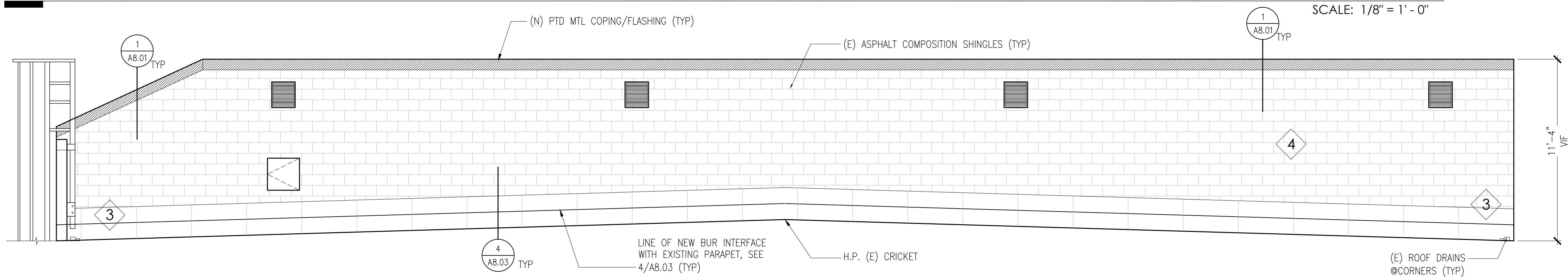
13 EXISTING NORTH ROOF ELEVATIONS

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



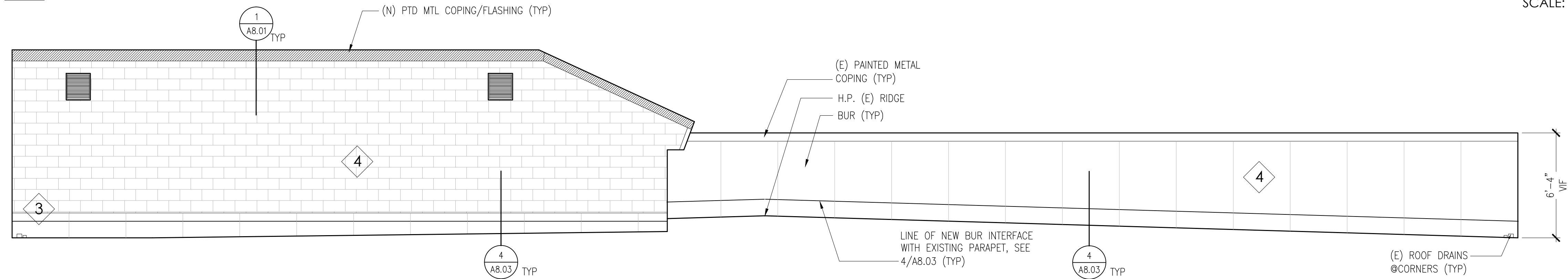
12 EXISTING SOUTH ROOF ELEVATIONS

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



11 EXISTING EAST ROOF ELEVATIONS

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



10 EXISTING WEST ROOF ELEVATIONS

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

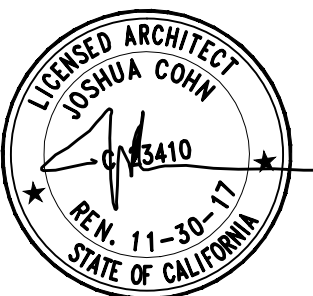
SCALE: 1/4" = 1' - 0"

SHEET NOTES:

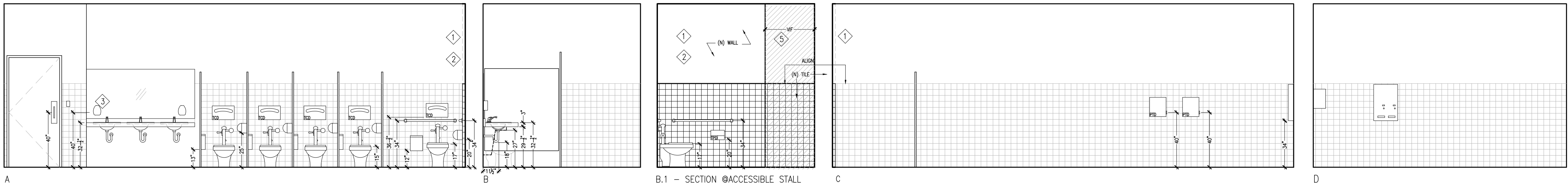
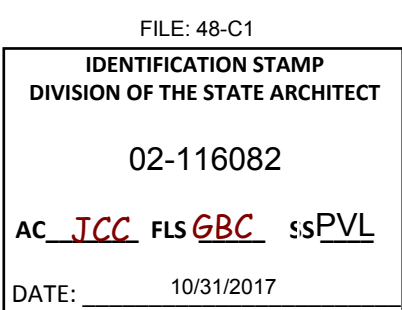
- (E) ROOF LADDER ATTACHMENTS - REMOVE AND RE-INSTALL AS REQ'D TO RE-ROOF PARAPET, SEE NOTE #3/A1.01
- REMOVE COPING AND PREP FOR NEW METAL ROOF AS SHOWN. NEW COPING AND RELATED FLASHING IS REQUIRED FOR NEW METAL ROOF AND SHALL BE INCLUDED IN BASE BID, SEE 01/A8.01 FOR TYPICAL SCOPE.
- REMOVE (E) ROOF DRAINS AND INSTALL NEW DRAINS - SPD (TYP.)
- EXISTING PARAPET WATERPROOFING TO REMAIN EXCPET IN AREAS AS NOTED. INSPECT AND PATCH AREAS OF EXISTING PARAPET THAT APPEAR TO REQUIRE REPAIR (TYP)

GENERAL NOTES:

ALL ROOFING ASSEMBLIES SHALL BE REQUIRED TO BE A CLASS "A" ROOF ASSEMBLY AND TESTED IN ACCORDANCE WITH ASTM 108 OR UL 790 AND COMPLY WITH THE REQUIRMENTS IN CBC 1505 (TYP).

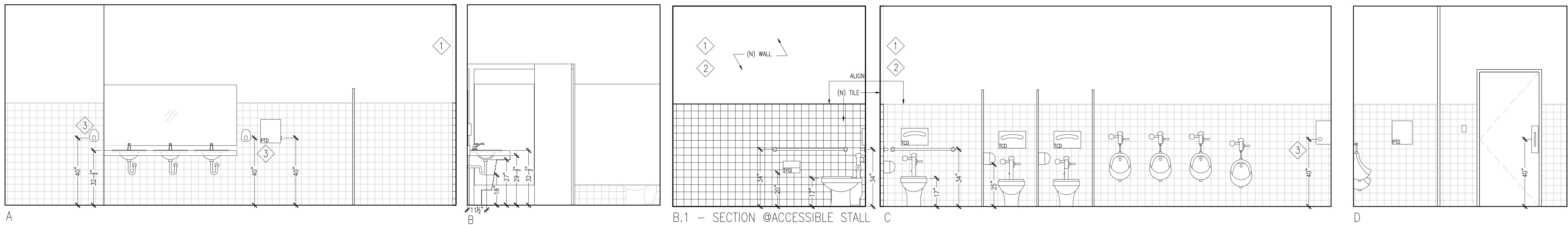


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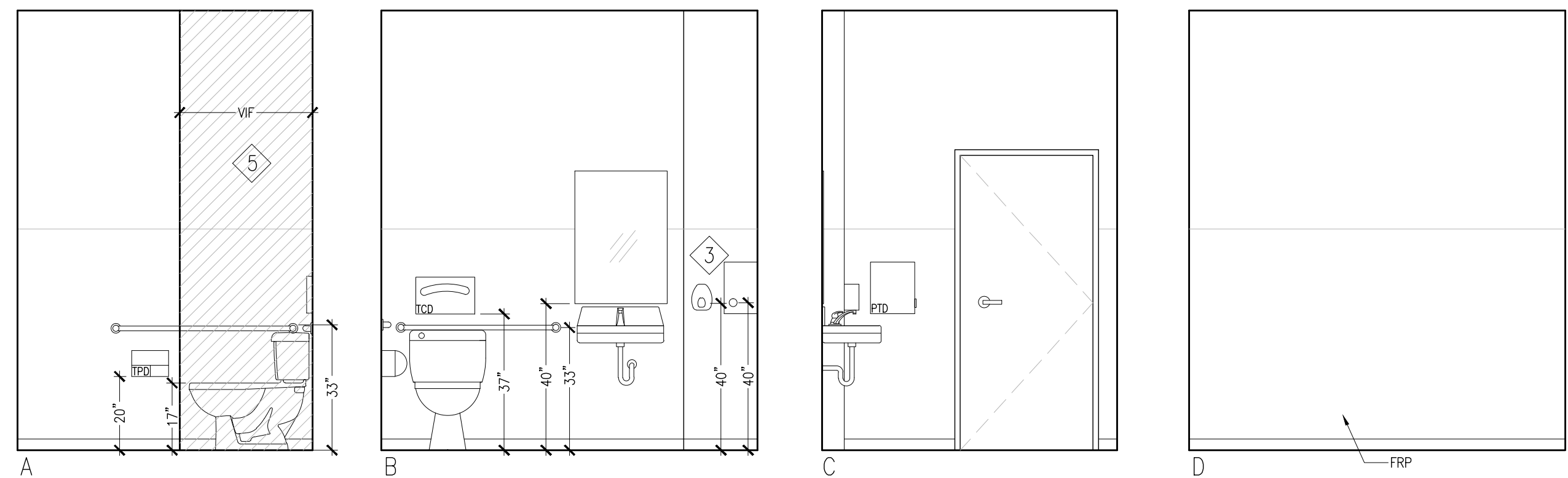
13 PROPOSED ELEVATIONS - WOMEN'S RESTROOM 112

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



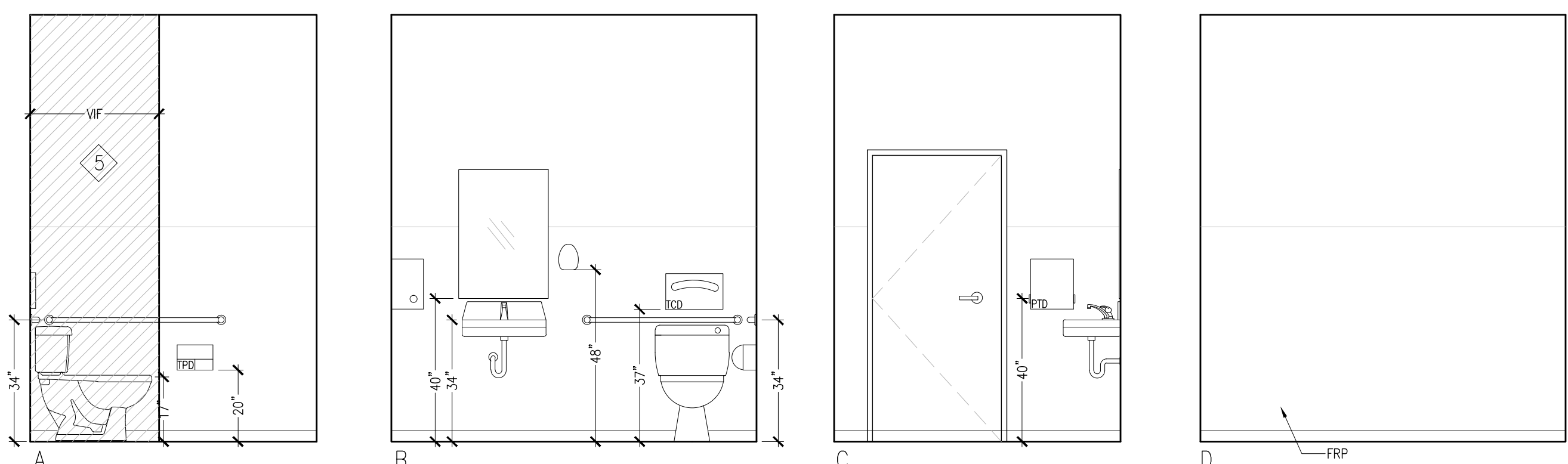
12 PROPOSED ELEVATIONS - MEN'S RESTROOM 111

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



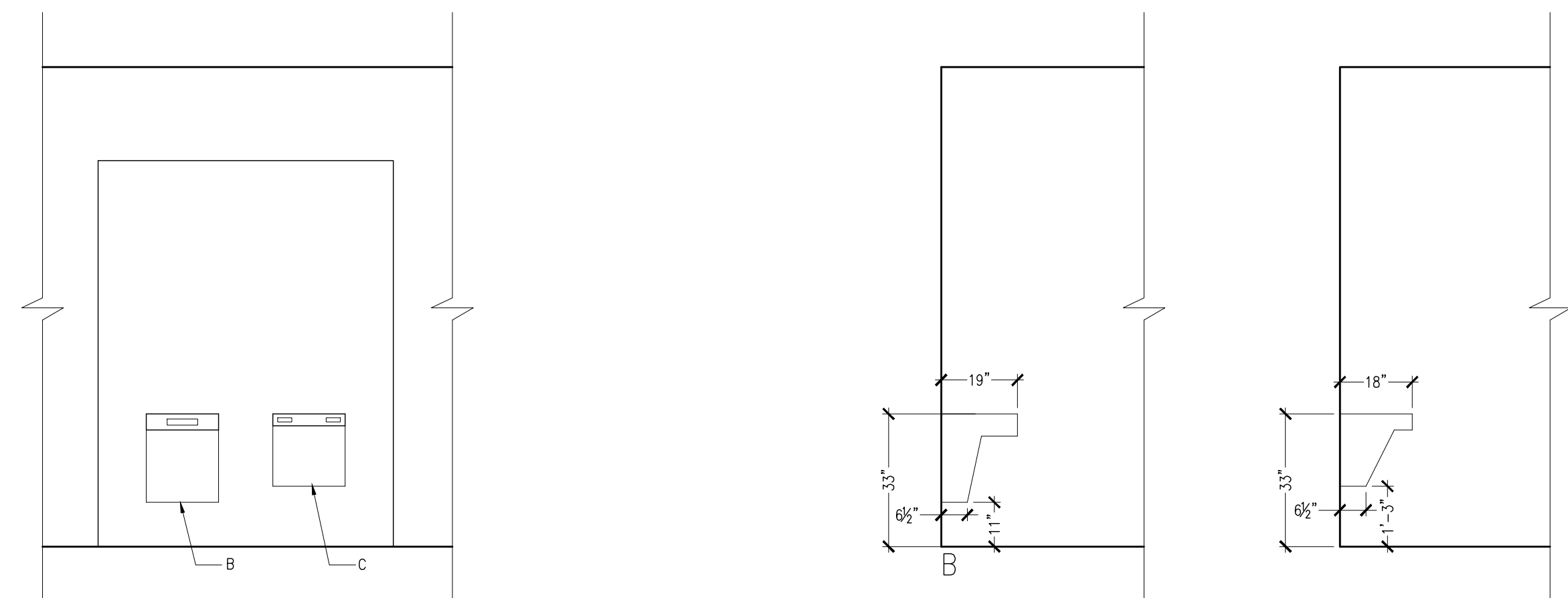
11 PROPOSED ELEVATIONS - ADMIN UNISEX RESTROOM 122

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



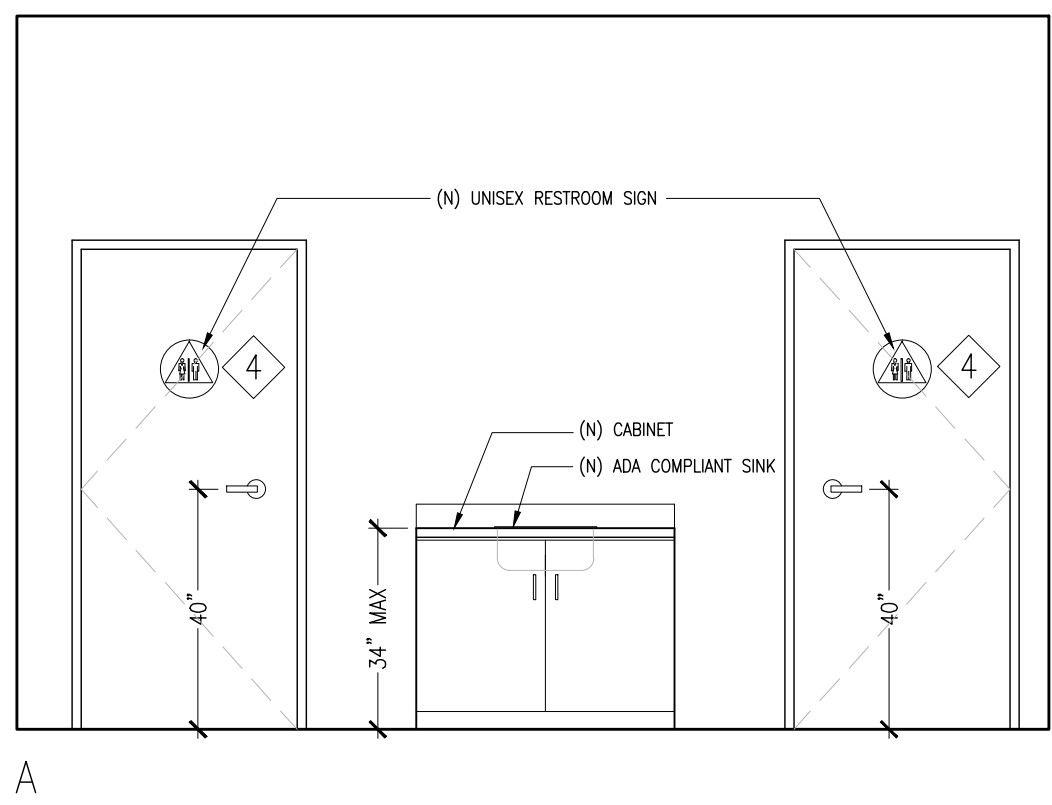
05 PROPOSED ELEVATIONS - ADMIN UNISEX RESTROOM 123

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



10 PROPOSED ELEVATIONS - DRINKING FOUNTAINS

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

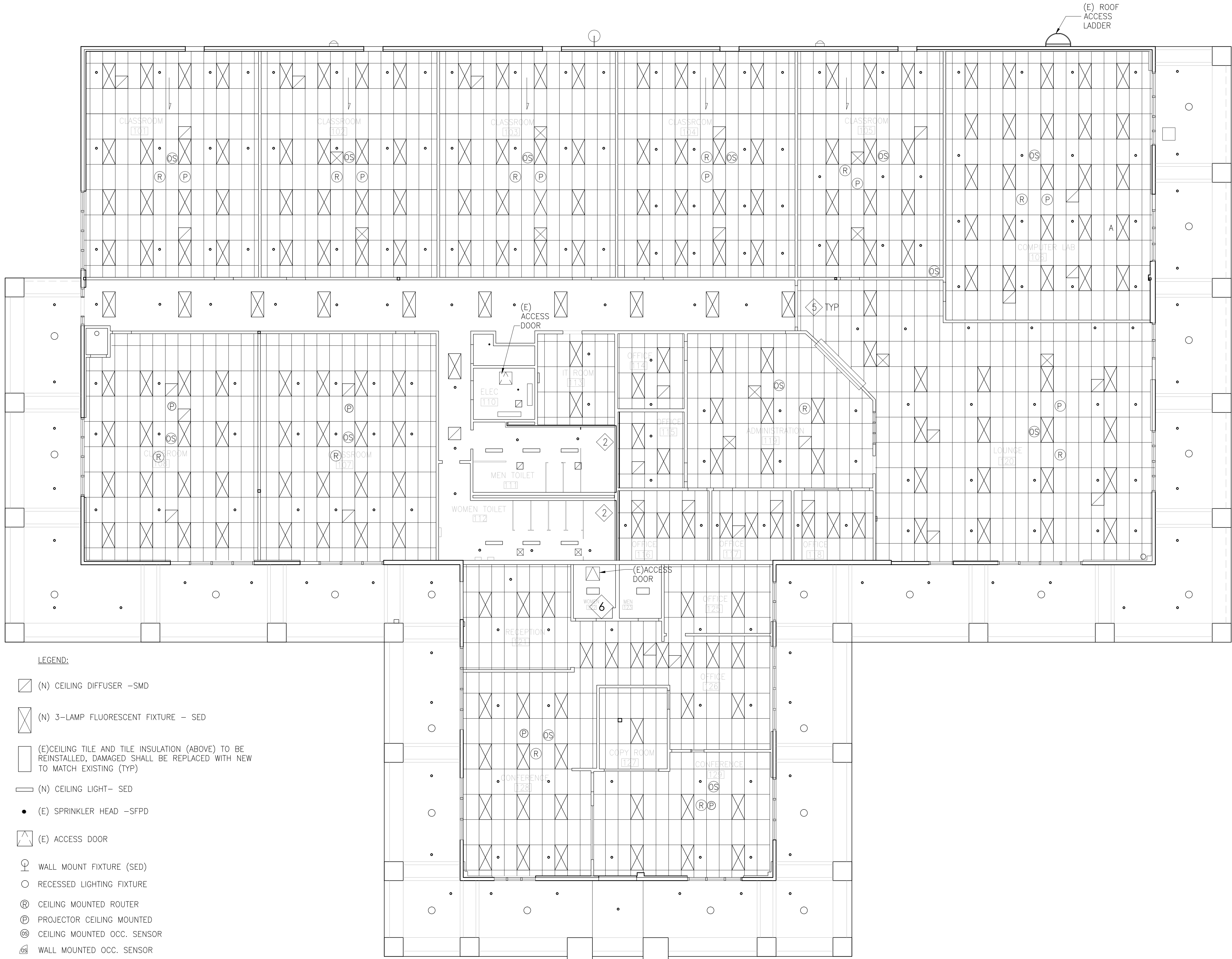


04 PROPOSED - ADMIN SINK 121

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

SHEET NOTES:

- 1 PROVIDE (N) GWB/TILE (TO MATCH) EXISTING PAINT & TILE (TYP).
- 2 PROVIDE (N) BACKING IN WALLS SUFFICIENT TO RE-LOCATE (E) ACCESSORIES & GRAB BARS (TYP).
- 3 ADJUST HEIGHT OF ACCESSORIES TO COMPLY WITH REQUIRED ADA HEIGHTS.
- 4 PROVIDE AND INSTALL (N) UNISEX RESTROOM SIGNS.
- 5 NEW AREA OF WALL TO BE REBUILT, CONTRACTOR SHALL ACCOUNT FOR EXTENT OF SCOPE BASED ON DEMO SCOPE. CONTRACTOR SHALL REPLACE/REINSTALL ANY DEVICES, FIXTURES AND ACCESSORIES ON BOTH SIDES OF THE WALLS. ALL FINISHES, MATERIALS AND COLORS SHALL MATCH EXISTING ON BOTH SIDES OF THE WALLS (TYP).
- 6 GENERAL NOTE: SEE 07/A0.20 FOR ADD'D ACCESS COMPLIANCE INFORMATION AS REQ'D FOR SCOPE SHOWN (TYP)



LEGEND:

- (N) CEILING DIFFUSER -SMD
- (N) 3-LAMP FLUORESCENT FIXTURE - SED
- (E)CEILING TILE AND TILE INSULATION (ABOVE) TO BE REINSTALLED, DAMAGED SHALL BE REPLACED WITH NEW TO MATCH EXISTING (TYP)
- (N) CEILING LIGHT- SED
- (E) SPRINKLER HEAD -SFPD
- (E) ACCESS DOOR
- WALL MOUNT FIXTURE (SED)
- RECESSED LIGHTING FIXTURE
- CEILING MOUNTED ROUTER
- PROJECTOR CEILING MOUNTED
- CEILING MOUNTED OCC. SENSOR
- WALL MOUNTED OCC. SENSOR

GENERAL NOTES:

1. RE-INSTALL ALL CEILING MOUNTED PROJECTORS, SCREENS, ROUTERS AND SENSORS TO EXISTING LOCATIONS. PROVIDE POWER & DATA CONNECTIONS FOR ALL REINSTALLED DEVICES AND RESTORE TO WORKING ORDER. LOCATIONS SHOWN ON PLAN MAY BE DIAGRAMMATIC, RE-INSTALL TO ORIGINAL LOCATION UON (TYP)

ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE USING DETAILS PROVIDED BY THE REGISTERED DESIGN PROFESSIONAL.

2. SEE ELECTRICAL, MEP, FP AND FA FOR ADDITIONAL DEVICES AS PART OF PROJECT SCOPE (TYP).

3. SEE A9.03 FOR ADD'L DETAILS (TYP)

SHEET NOTES:

- GEN NOTE: SED FOR ADDITIONAL INFORMATION FOR LIGHTING AND CONTROLS (TYP).
- WALL LOCATION WILL SHIFT, ADJUST NEW CEILING GRID ACCORDINGLY TO ALLOW FOR EXISTING FP/FIXTURES (TYP)
- GEN. NOTE: REINSTALL SALVAGED CEILING TILES AND INSULATION TILES (ABOVE) IN NEW SUSPENDED CEILING GRID (TYP).
- GEN. NOTE: REPLACE DAMAGED TILES AND INSULATION TILES (ABOVE) WHERE DAMAGED (TYP).
- GEN. NOTE: WHERE GWB CEILING IS DISTURBED BY NEW SCOPE OF WORK, PATCH IN NEW GWB, PREP/PAINT TO MATCH EXISTING (TYP).
- IN RM #122: NEW GWB, PROVIDE FOR REINSTALLATION OF EXISTING FIXTURES AND EQUIPMENT. TAPE, PREP AND MATCH (E) FINISH AND PAINT. SEE S2.1 DOE SCOPE OF WORK

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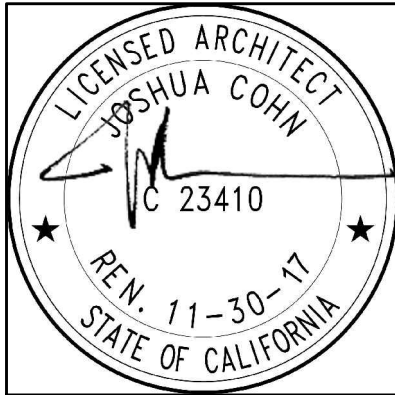
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PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

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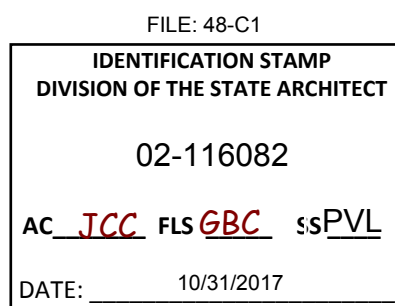


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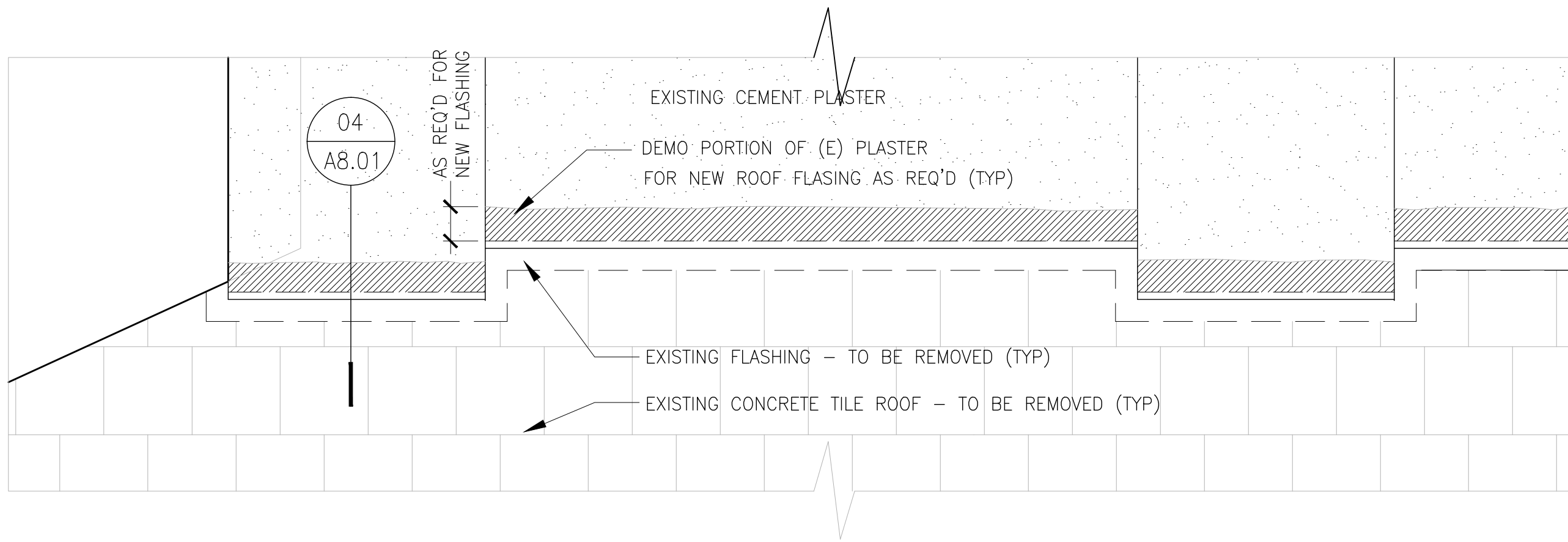
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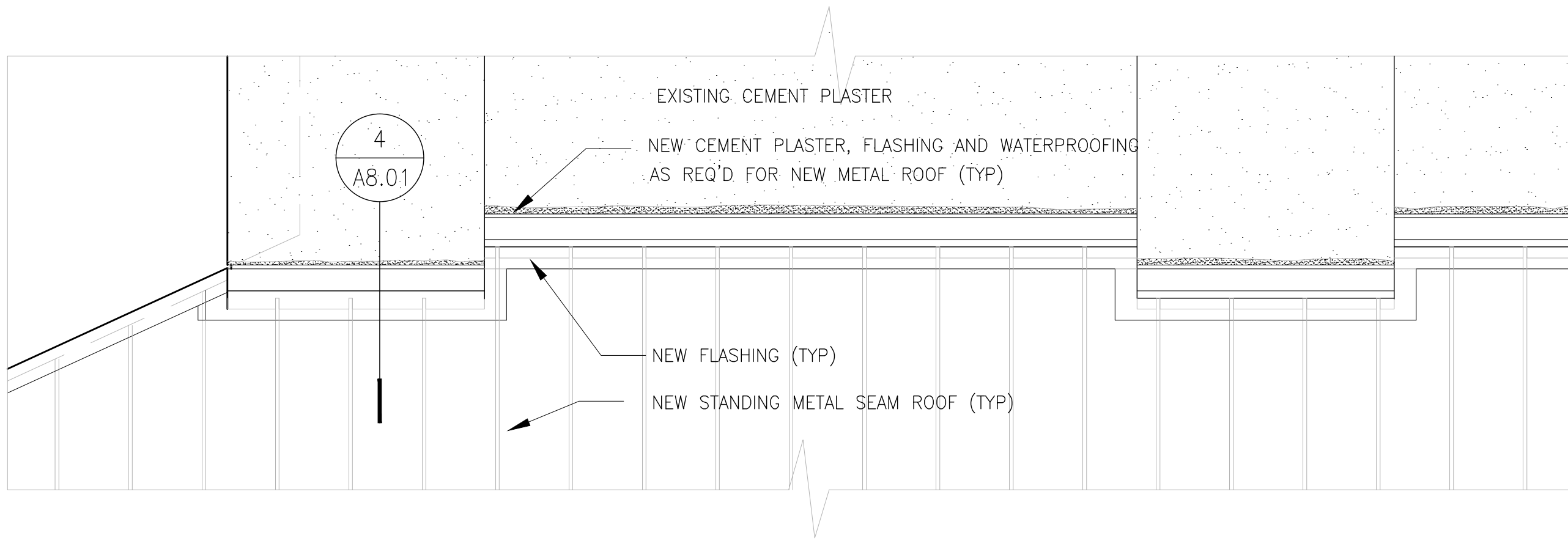
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DATE:
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PERMIT APPLICATION NO.:

REFLECTED
CEILING PLAN

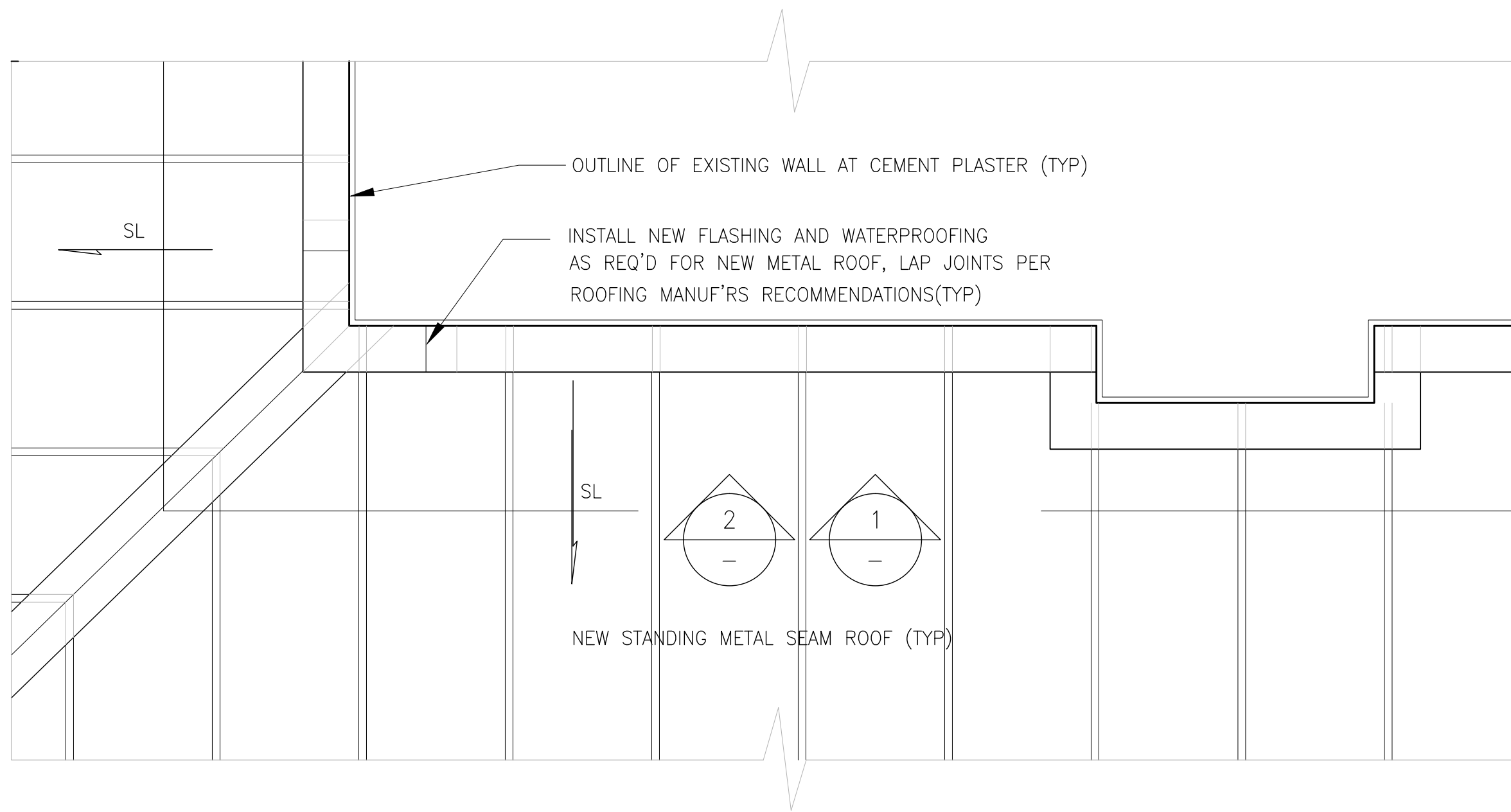
A6.00



03 PARTIAL ELEVATION AT EXISTING ROOF/WALL
SCALE: 3/4" =1'-0"



02 PARTIAL ELEVATION AT STANDING METAL SEAM ROOF/WALL
SCALE: 3/4" =1'-0"



01 PARTIAL PLAN AT STANDING METAL SEAM ROOF
SCALE: 3/4" =1'-0"

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ARCHITECT:

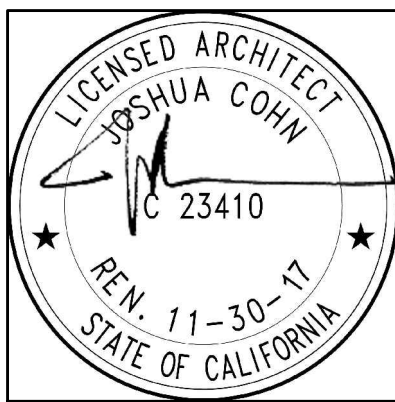
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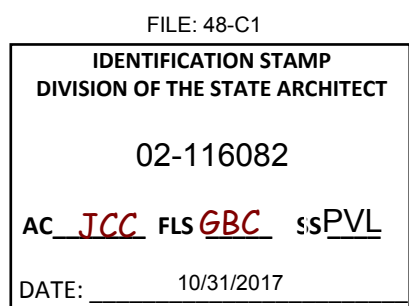
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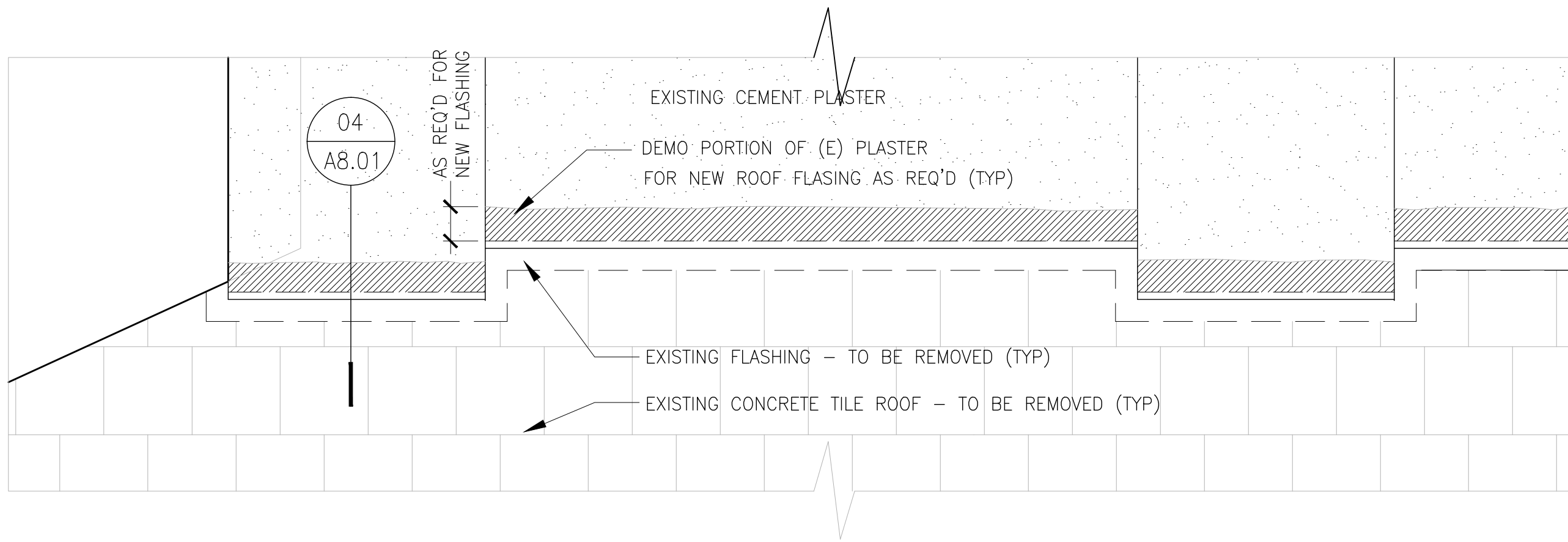
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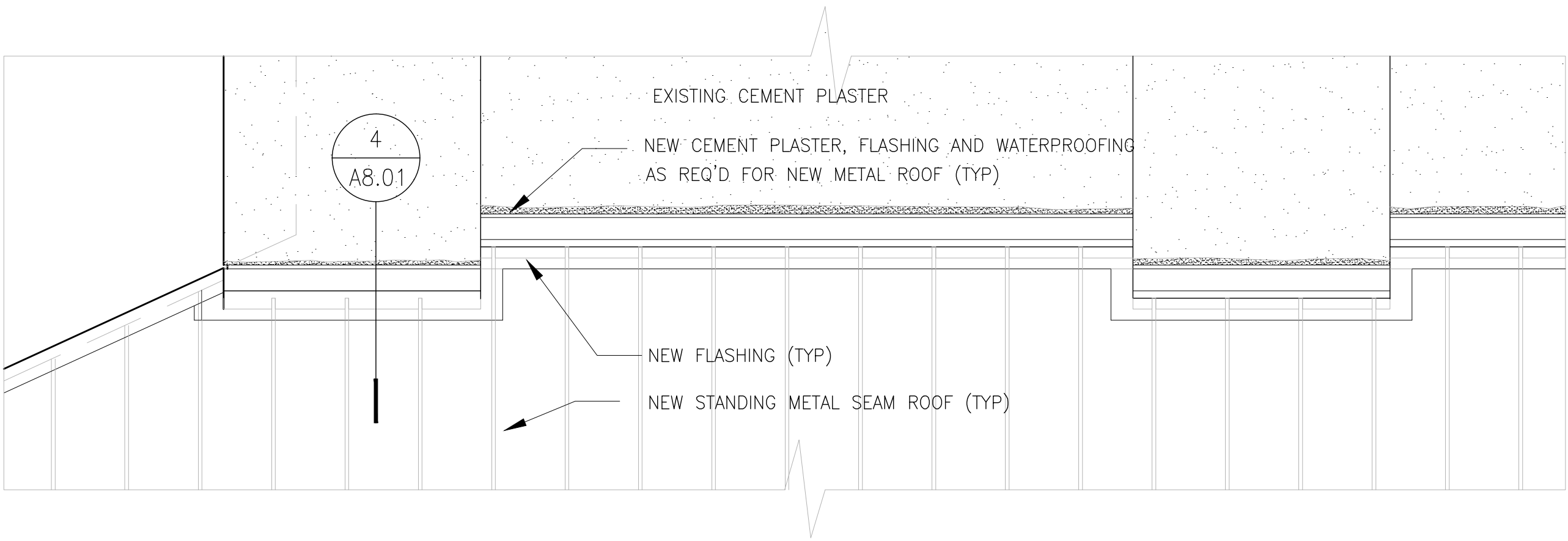
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EXT. DETAILS

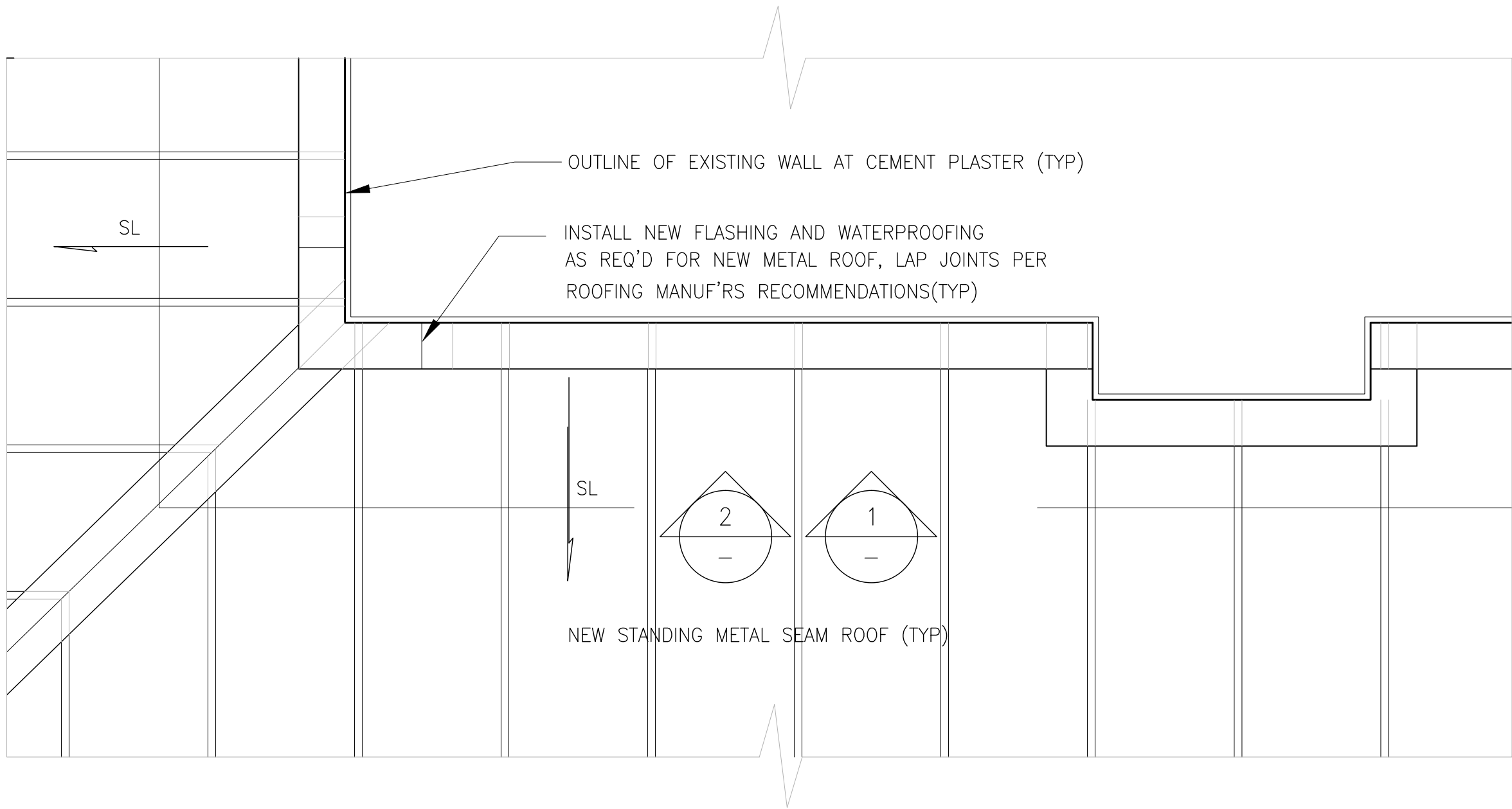
A8.00



03 PARTIAL ELEVATION AT EXISTING ROOF/WALL
SCALE: 3/4" =1'-0"



02 PARTIAL ELEVATION AT STANDING METAL SEAM ROOF/WALL
SCALE: 3/4" =1'-0"



01 PARTIAL PLAN AT STANDING METAL SEAM ROOF
SCALE: 3/4" =1'-0"

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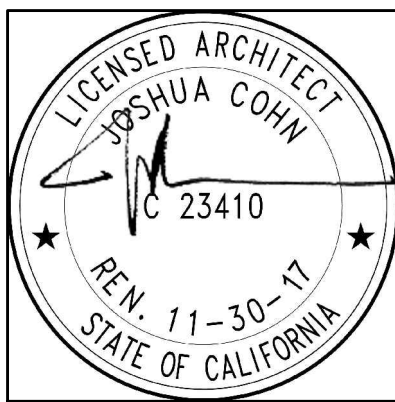
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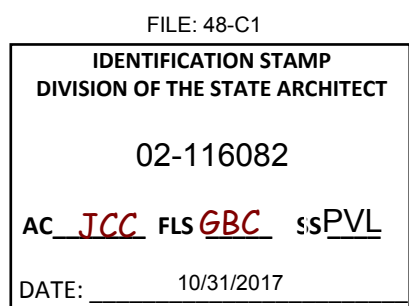
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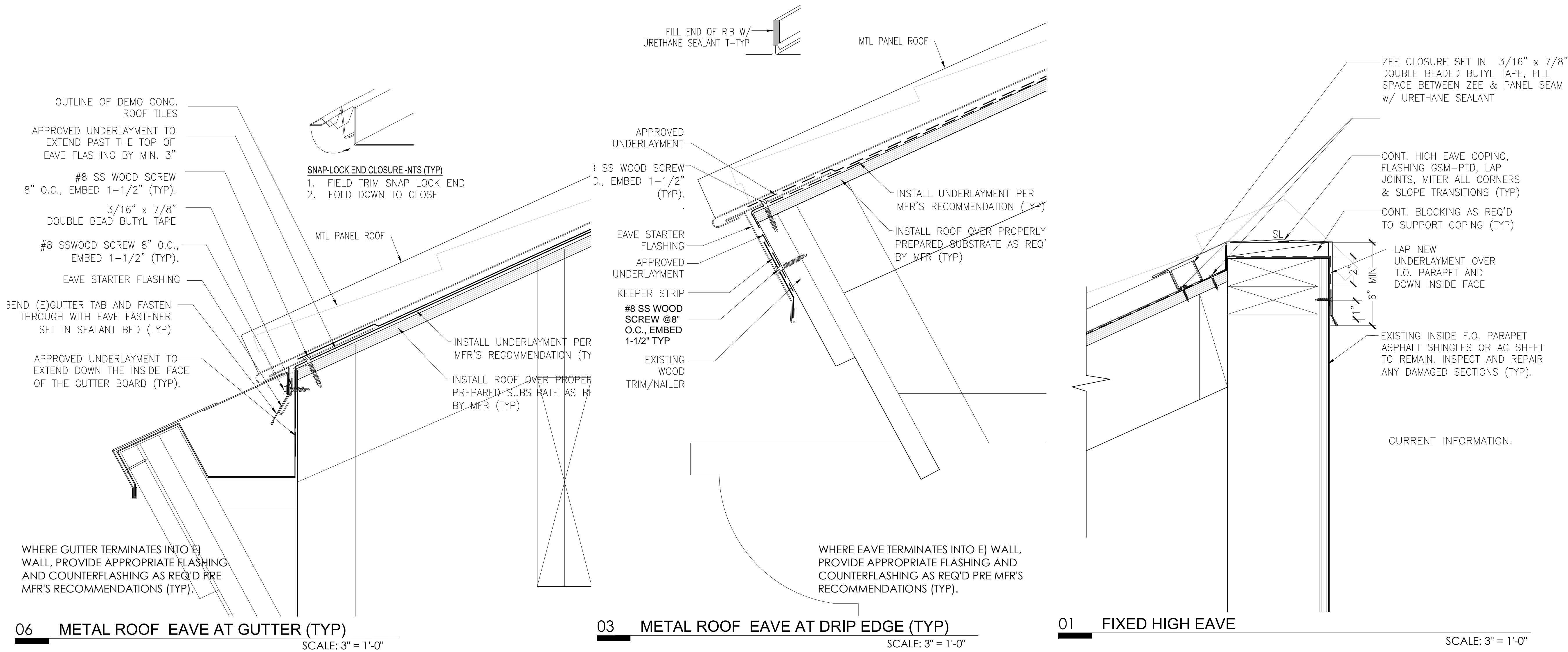
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EXT. DETAILS

A8.00



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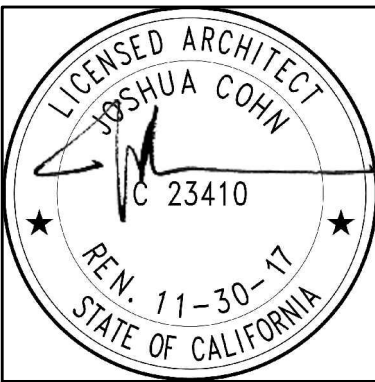
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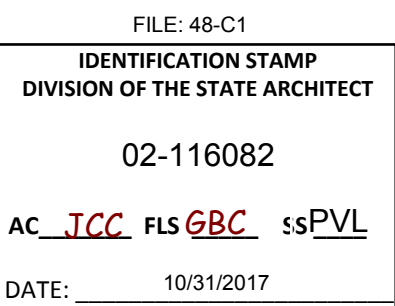
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EXT.DETAILS
A8.01

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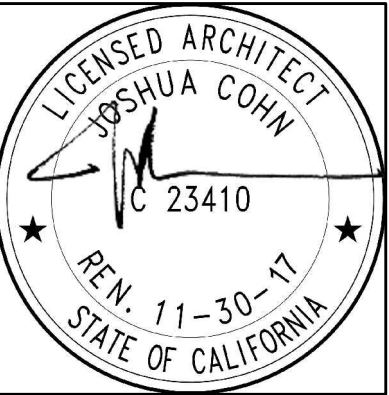
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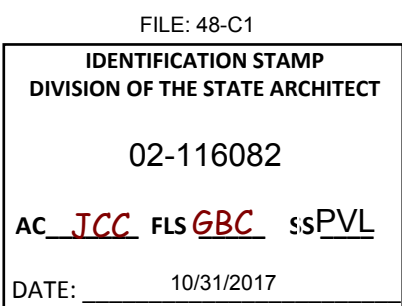
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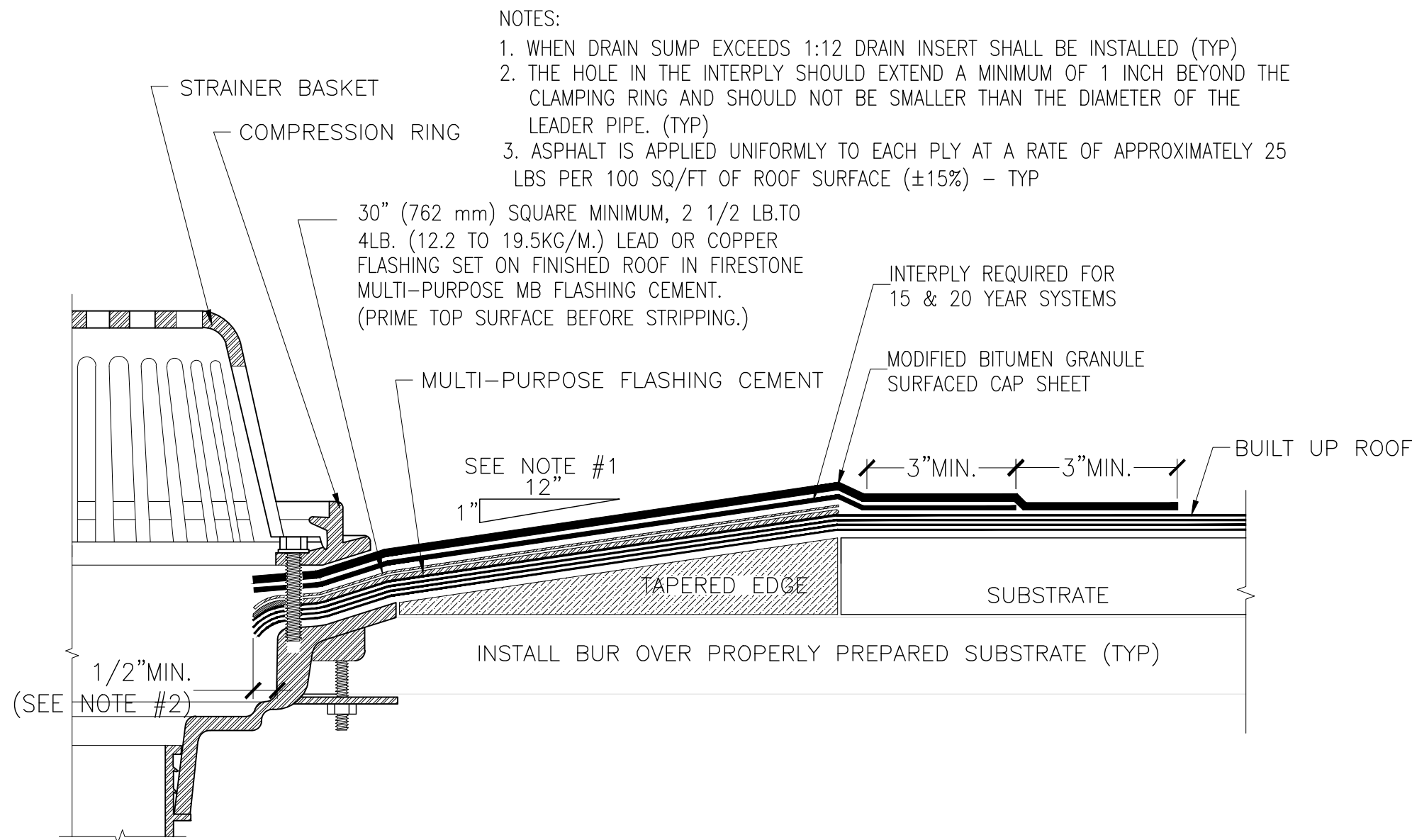
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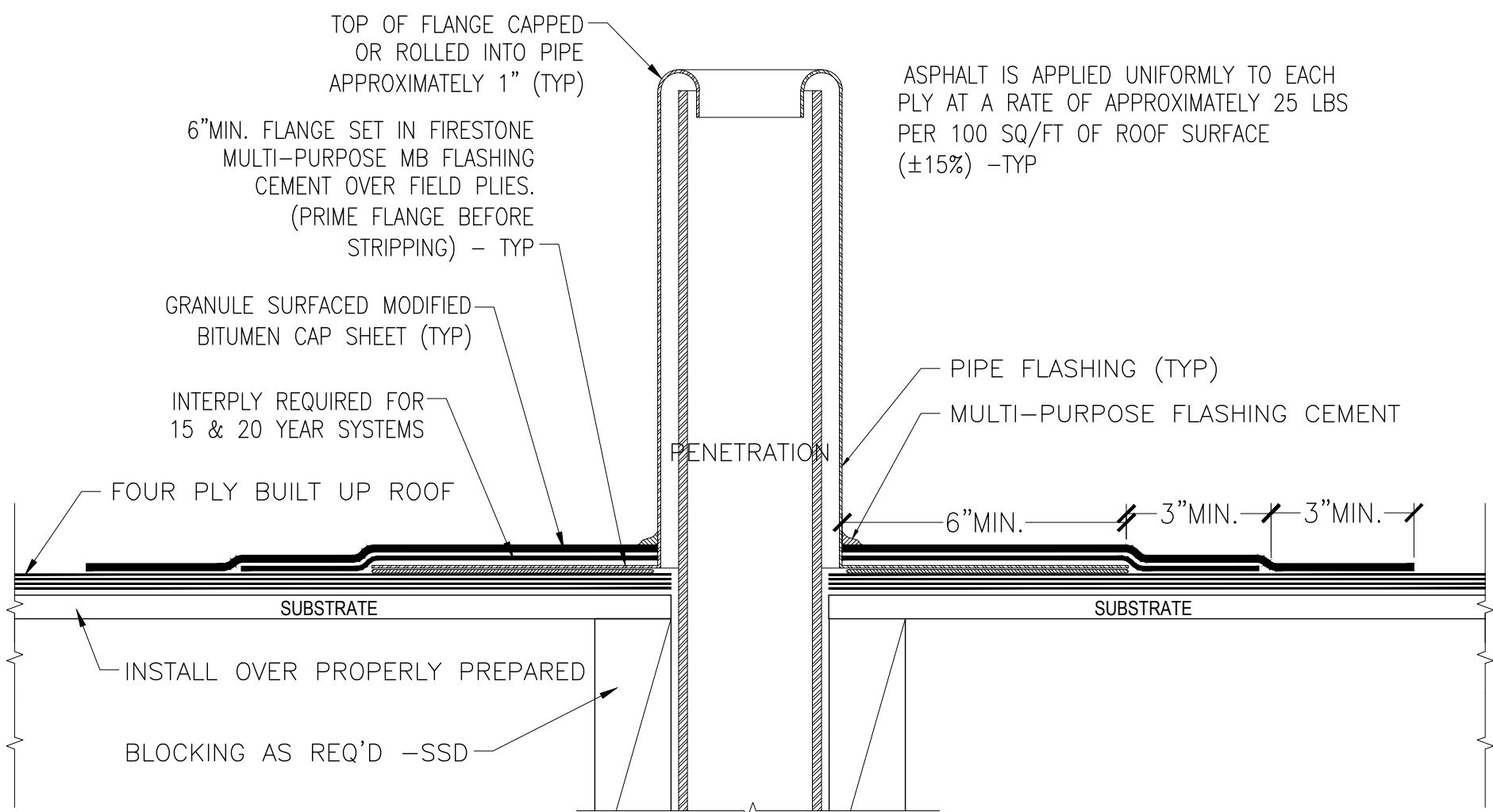
EXT. DETAILS

A8.02



11 ROOF DRAIN FLASHING AT BUR (TYP) - SPD (P2.2) FOR OVERFLOW

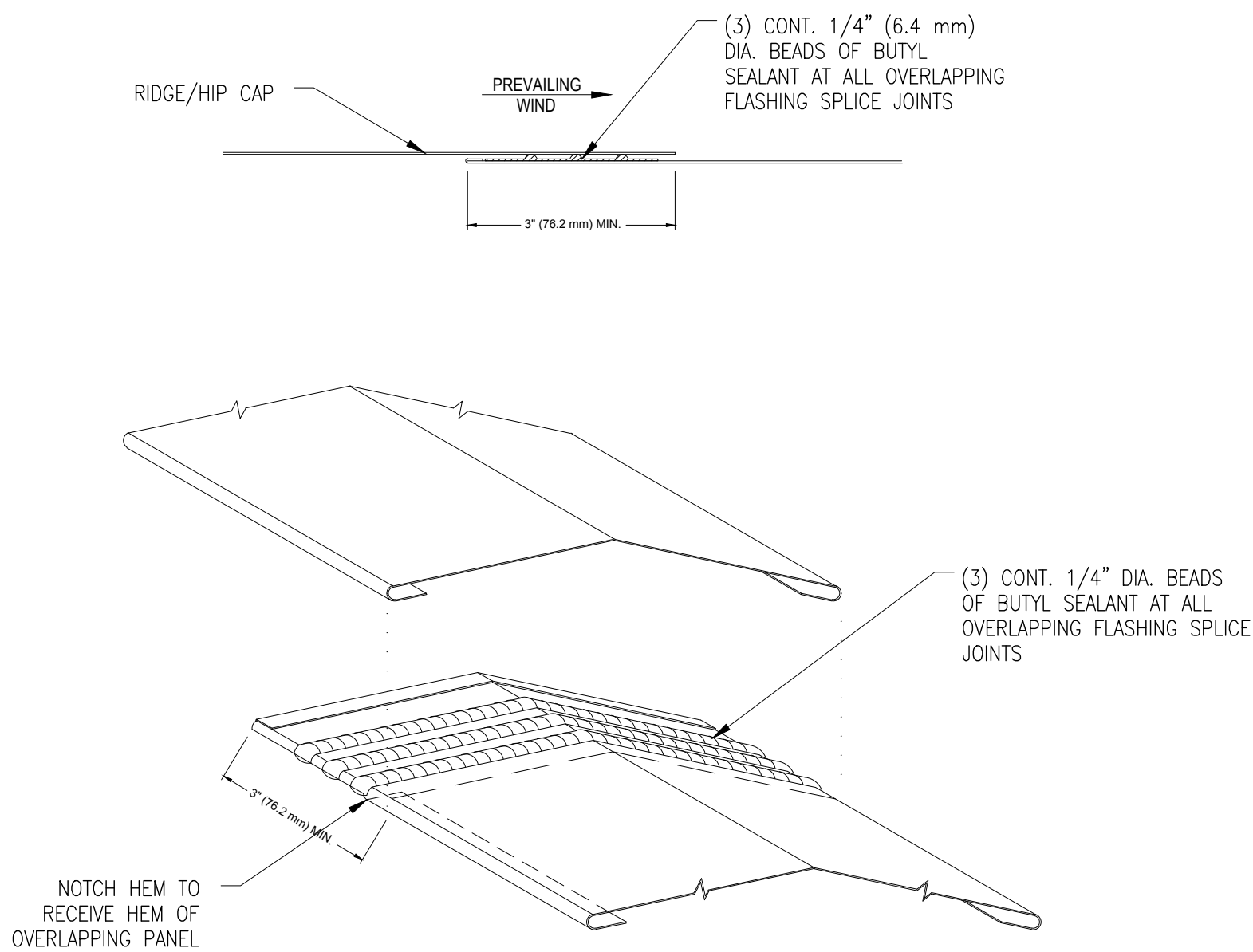
NTS



06 BUR ROOF PENETRATIONS (TYP)

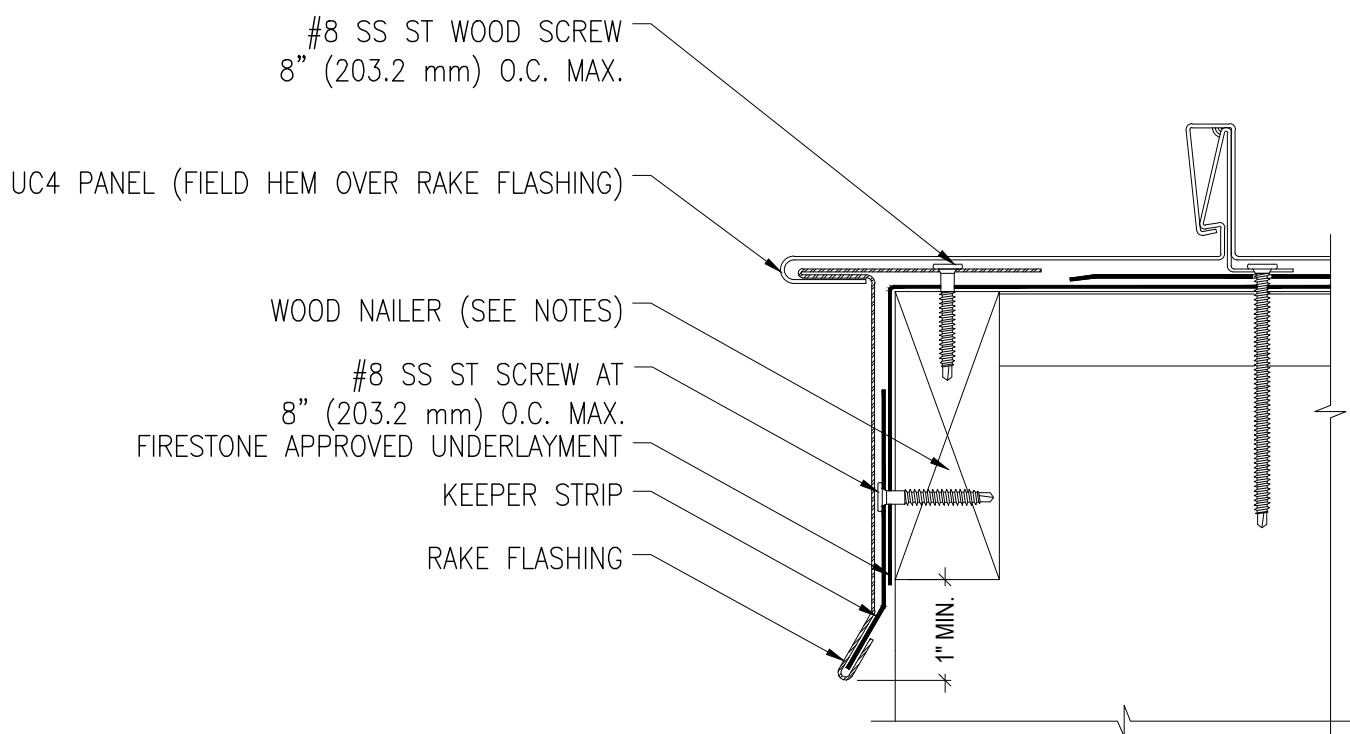
USE FOR TYPICAL ROOF PENETRATIONS U.O.N.

SCALE: 3" = 1'-0"



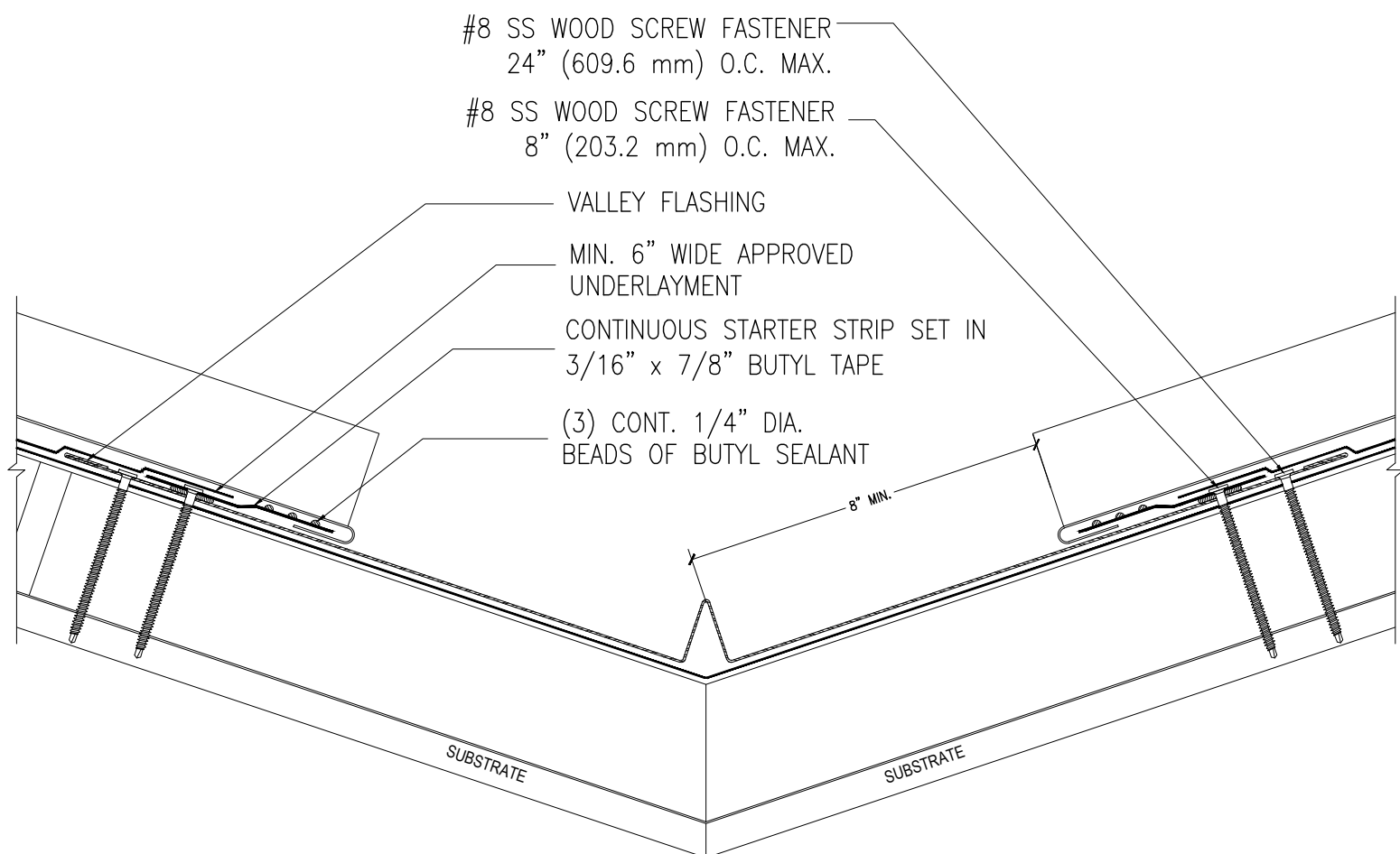
10 MTL ROOF AT RIDGE (TYP)

NTS



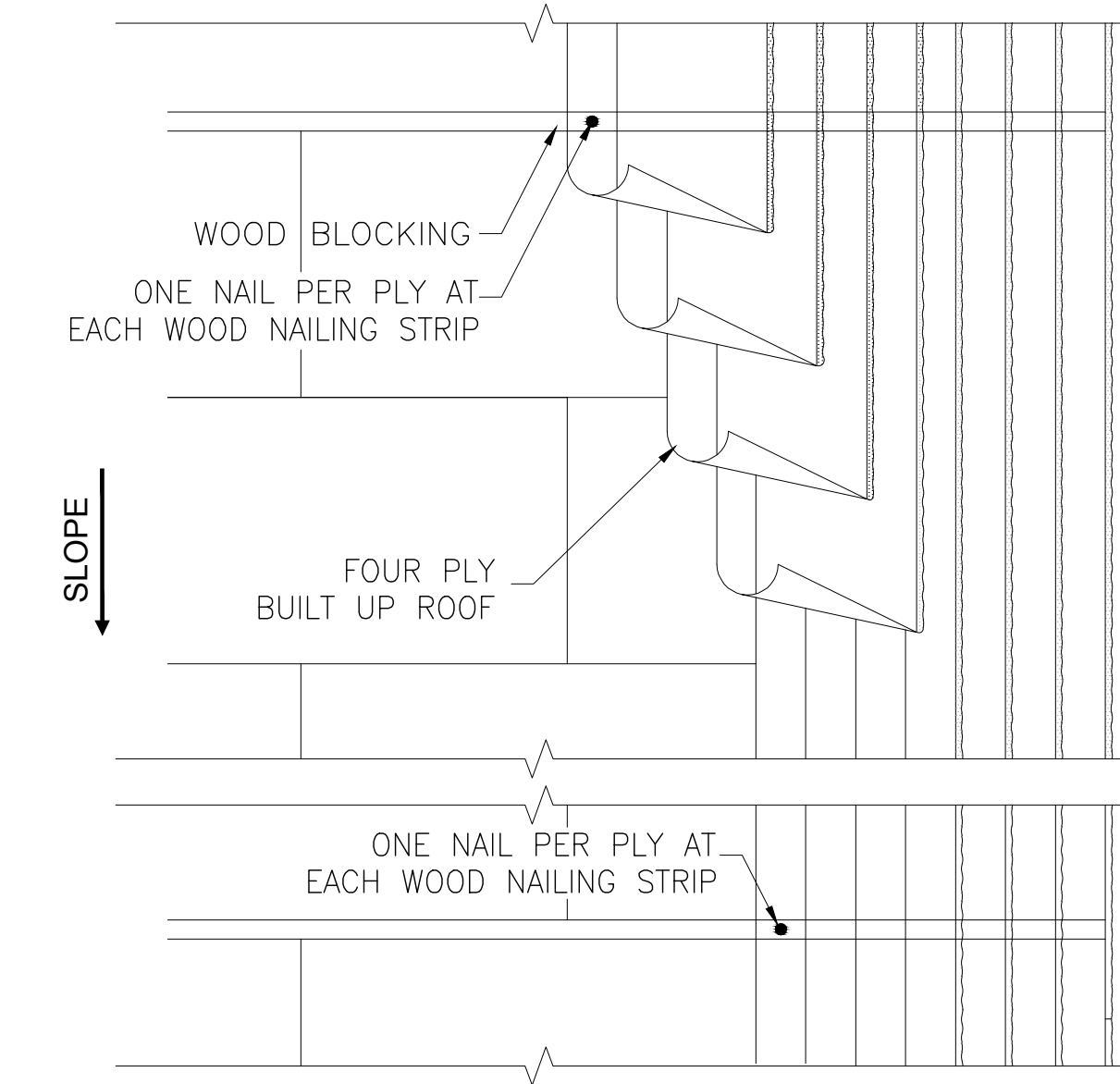
04 MTL ROOF AT RAKE (TYP)

NTS

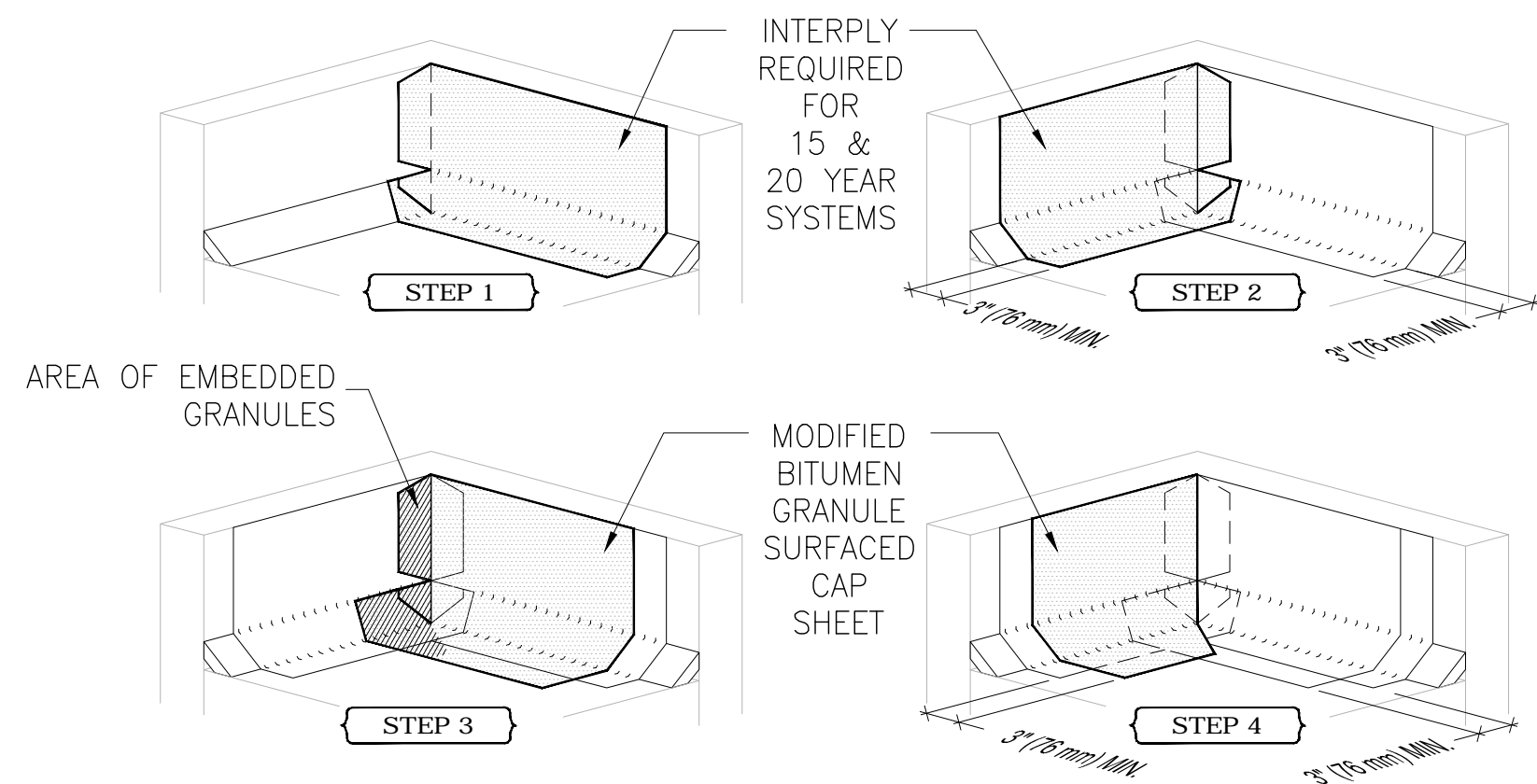


01 MTL ROOF AT VALLEY (TYP)

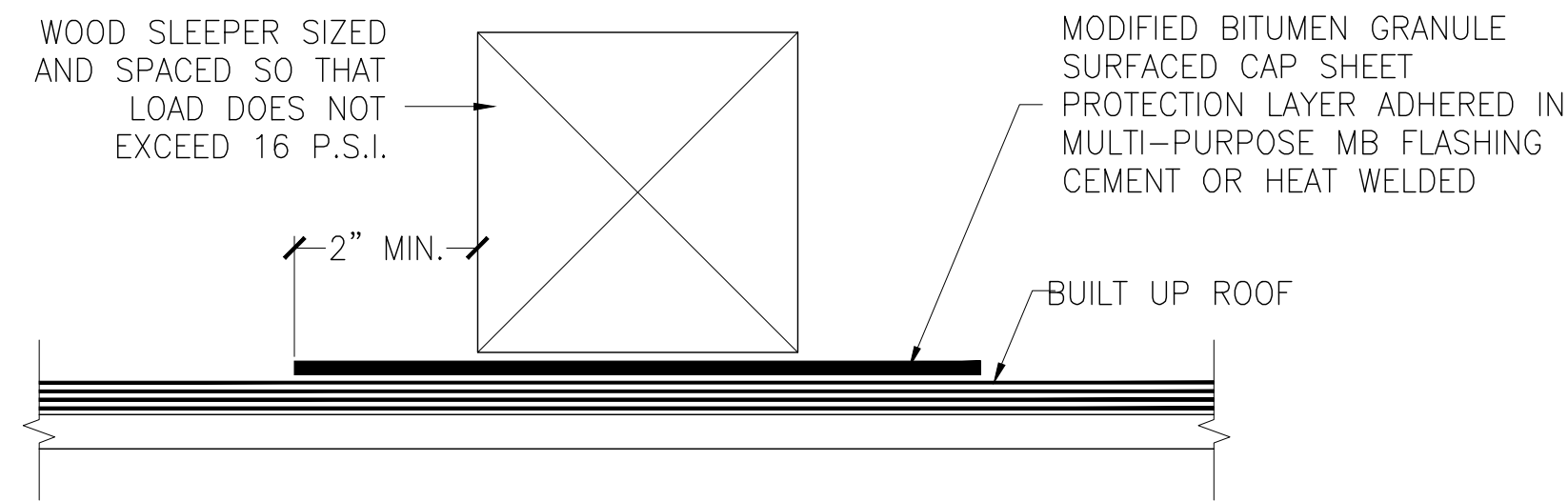
SCALE: 3" = 1'-0"



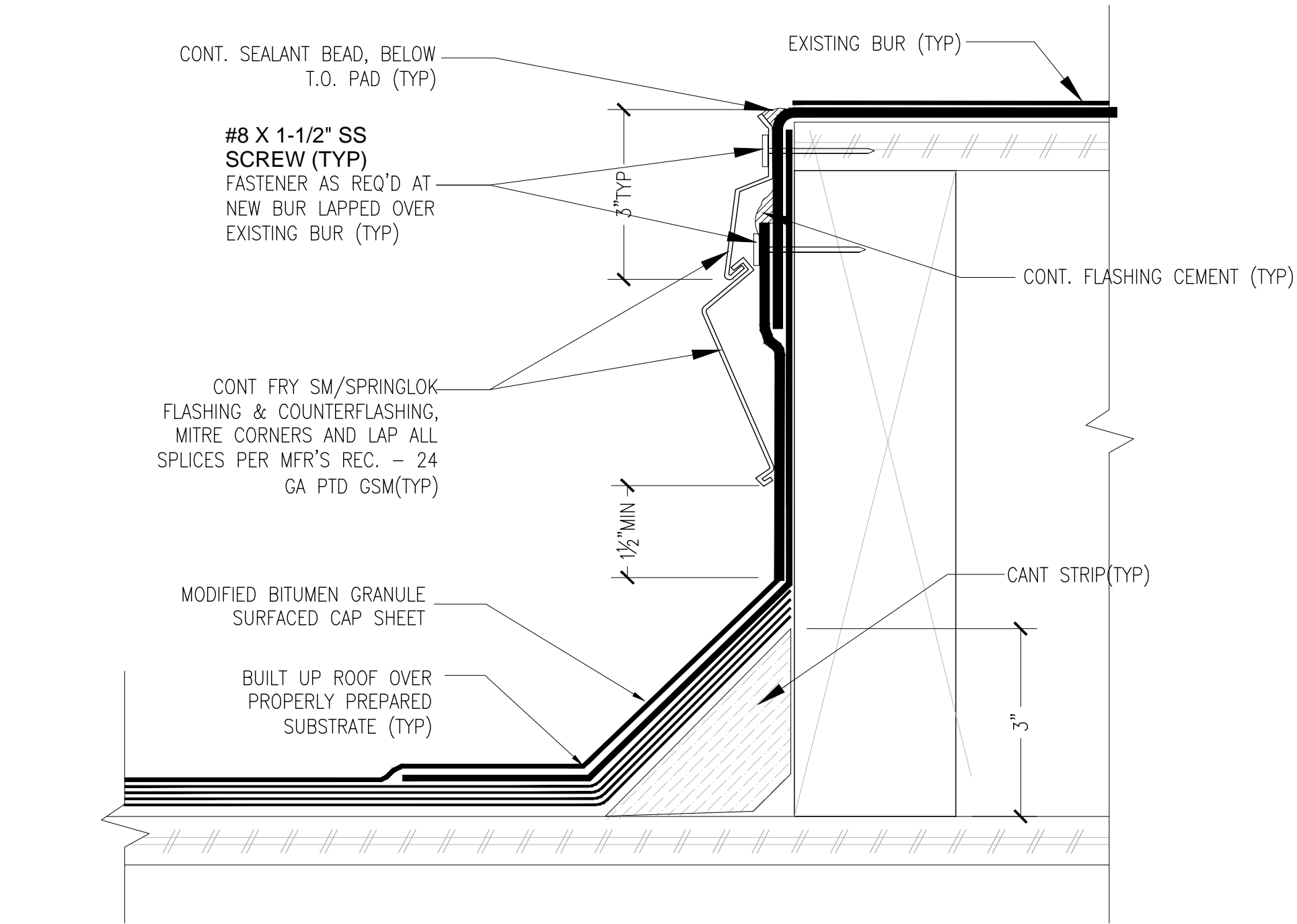
12 TYPICAL BUR - PLY SEQUENCE
INSTALL PER MFR'S RECOMMENDATION SCALE: 3" = 1'-0"



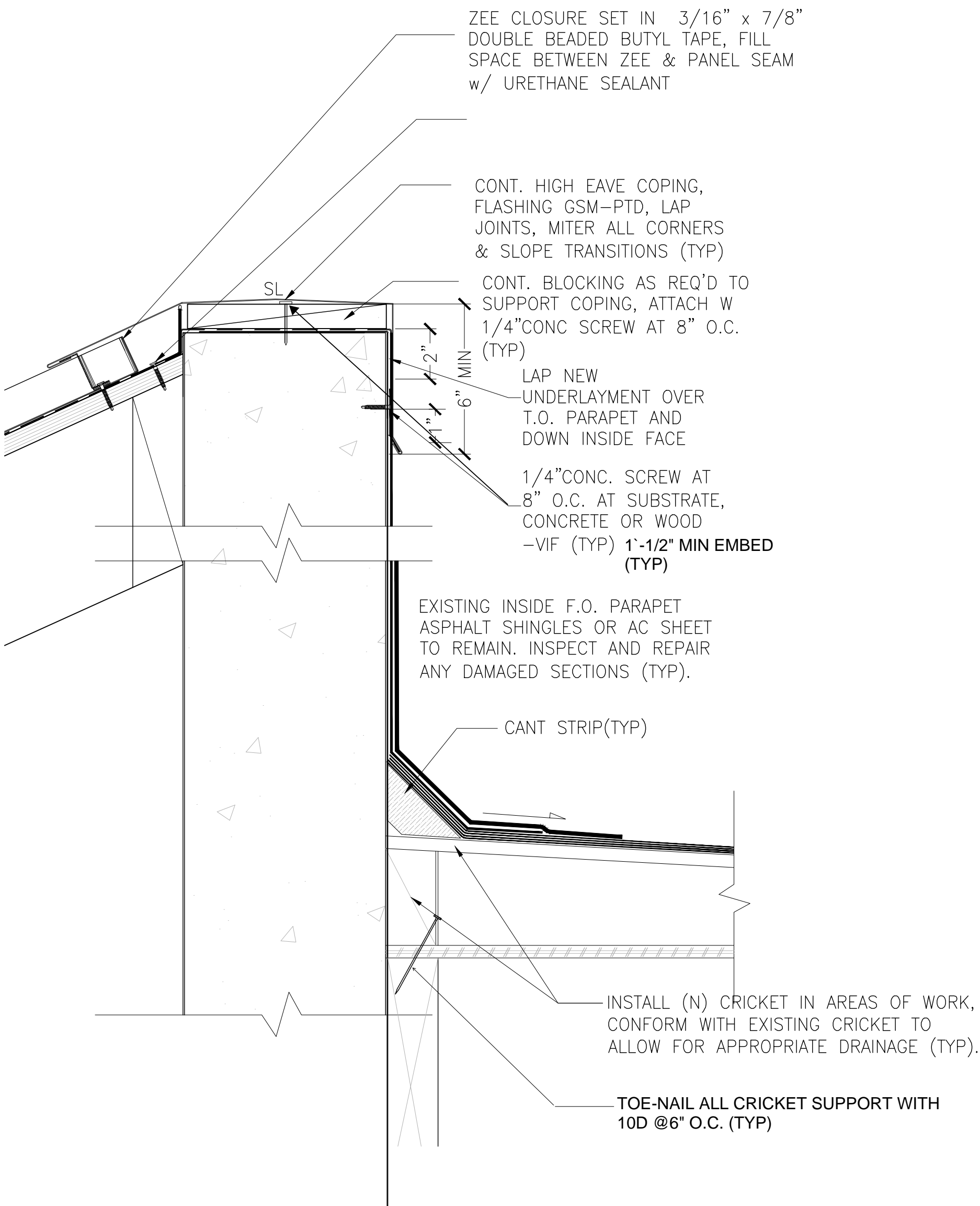
11 TYPICAL BUR DETAILS AT CORNERS
INSTALL PER MFR'S RECOMMENDATION SCALE: 3" = 1'-0"



10 TYPICAL BUR DETAILS AT CORNERS
SCALE: 3" = 1'-0"

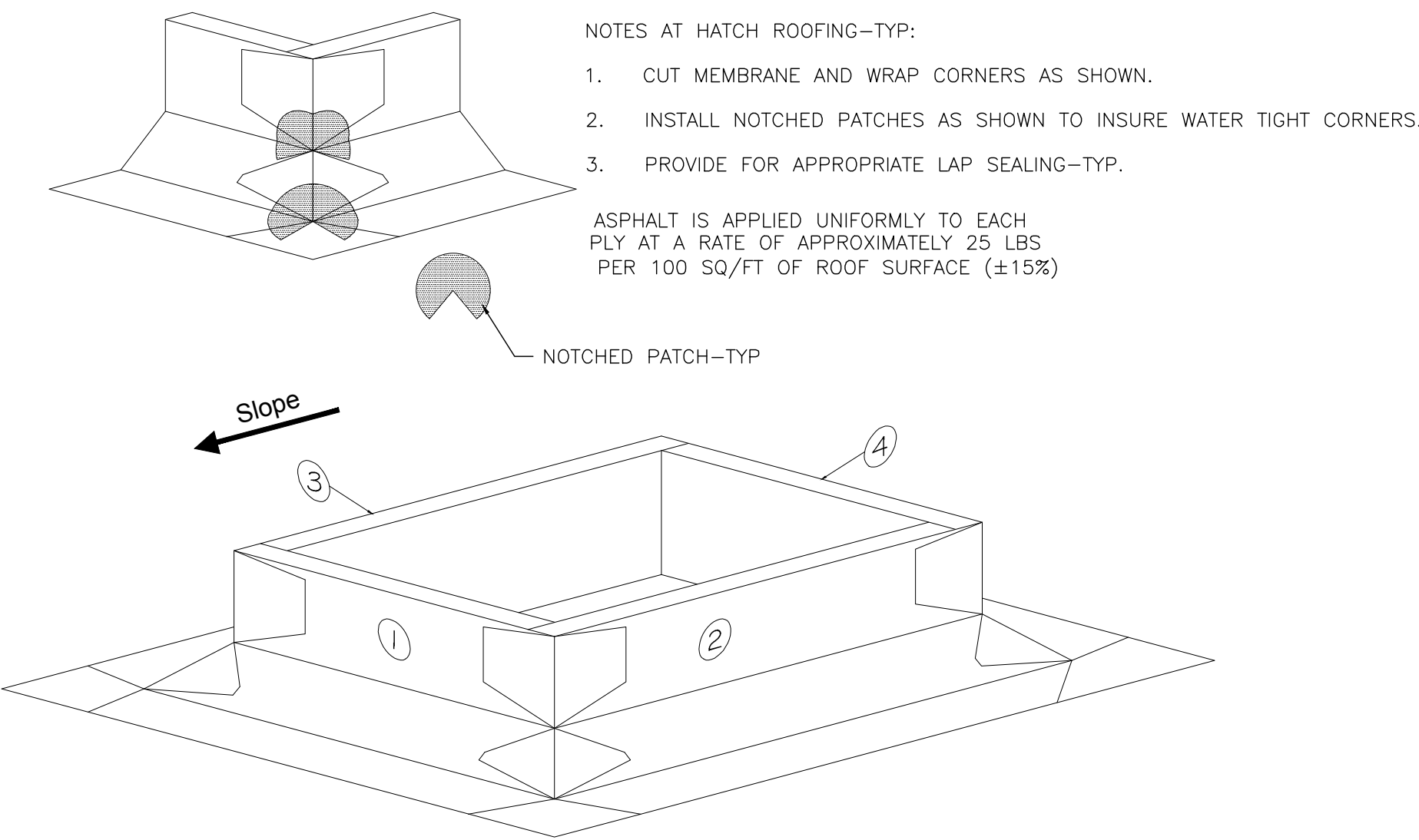


08 BUR AT EQUIPMENT SUPPORT (TYP)
SCALE: 6" = 1'-0"

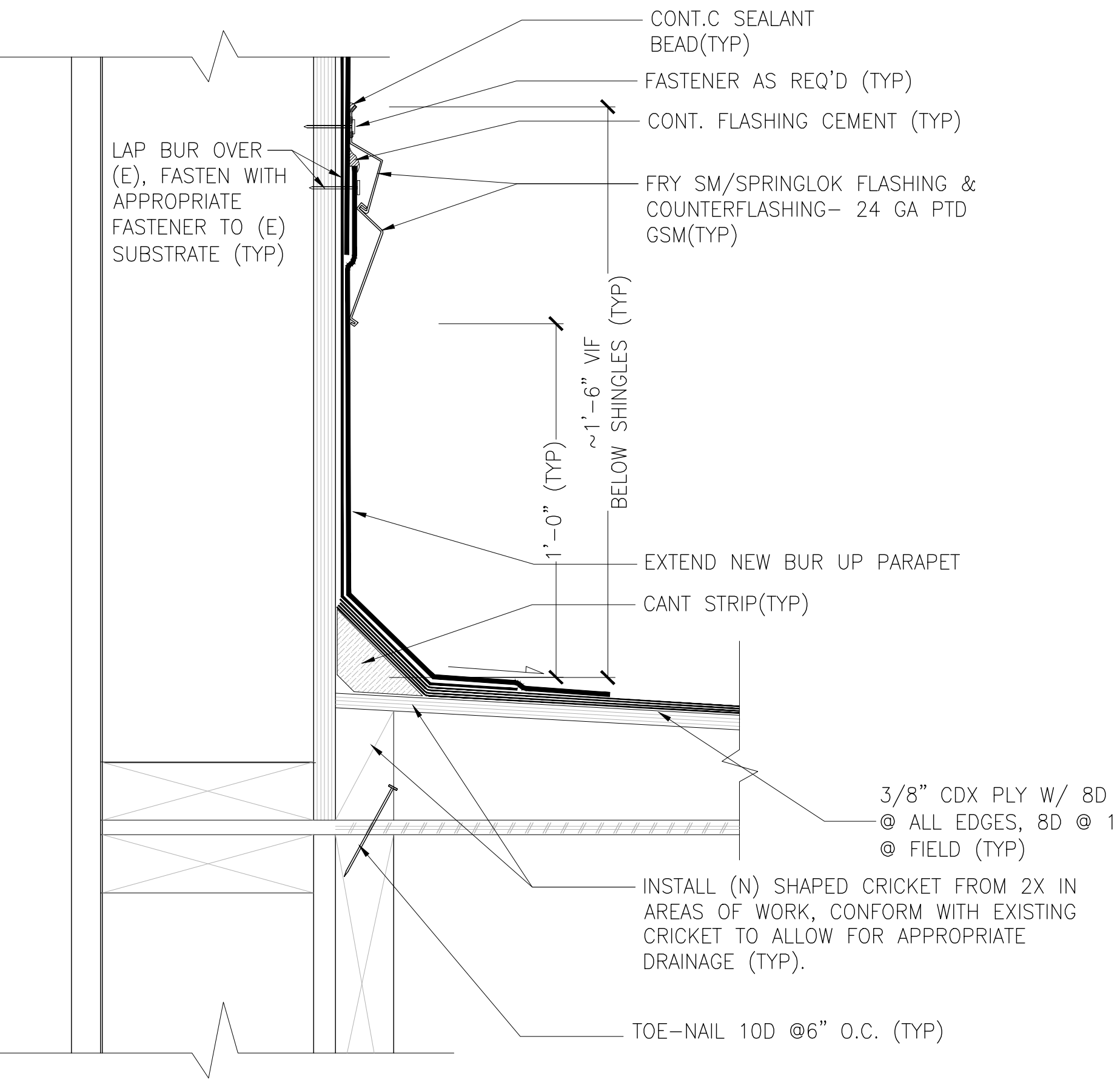


07 COPING/ROOF AT LOWER ROOF /CONC WALL (TYP)
SCALE: 3" = 1'-0"

GENERAL NOTE: DETAILS MAY VARY WITH MANUFACTURER, CONTRACTOR SHALL



03 ROOF HATCH ROOFING DIAGRAM
NTS



04 ROOF/PARAPET CONNECTION (TYP)
SCALE: 3" = 1'-0"

OWNER:

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

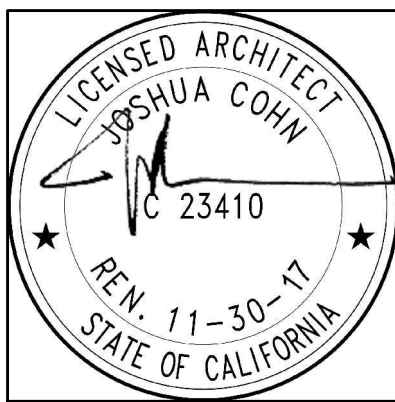
CA ARCHITECTS
475 Gate Five Road, Suite 107
Sausalito, CA 94965
T 415.331.7655
F 415.331.7656

PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

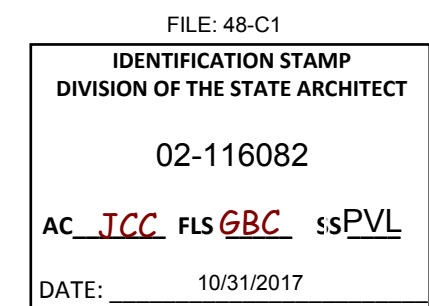
STAMP



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06/06/2017		ISSUE FOR CD 50%
06/30/2017		ISSUE FOR CD 60%
07/20/2017		ISSUE FOR CD 100%
10/18/2017		DSA BACKCHECK

KEY PLAN:



SCALE:
DATE:
PROJECT NO:
PERMIT APPLICATION NO:

EXT. DETAILS
A8.03

OWNER:

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

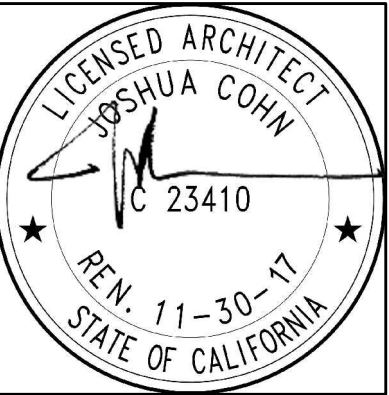
CA ARCHITECTS
475 Gate Five Road, Suite 107
Sausalito, CA 94965
T 415.331.7655
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PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

STAMP

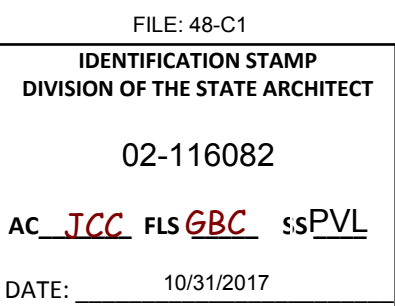


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10/18/2017		DSA BACKCHECK

KEY PLAN:



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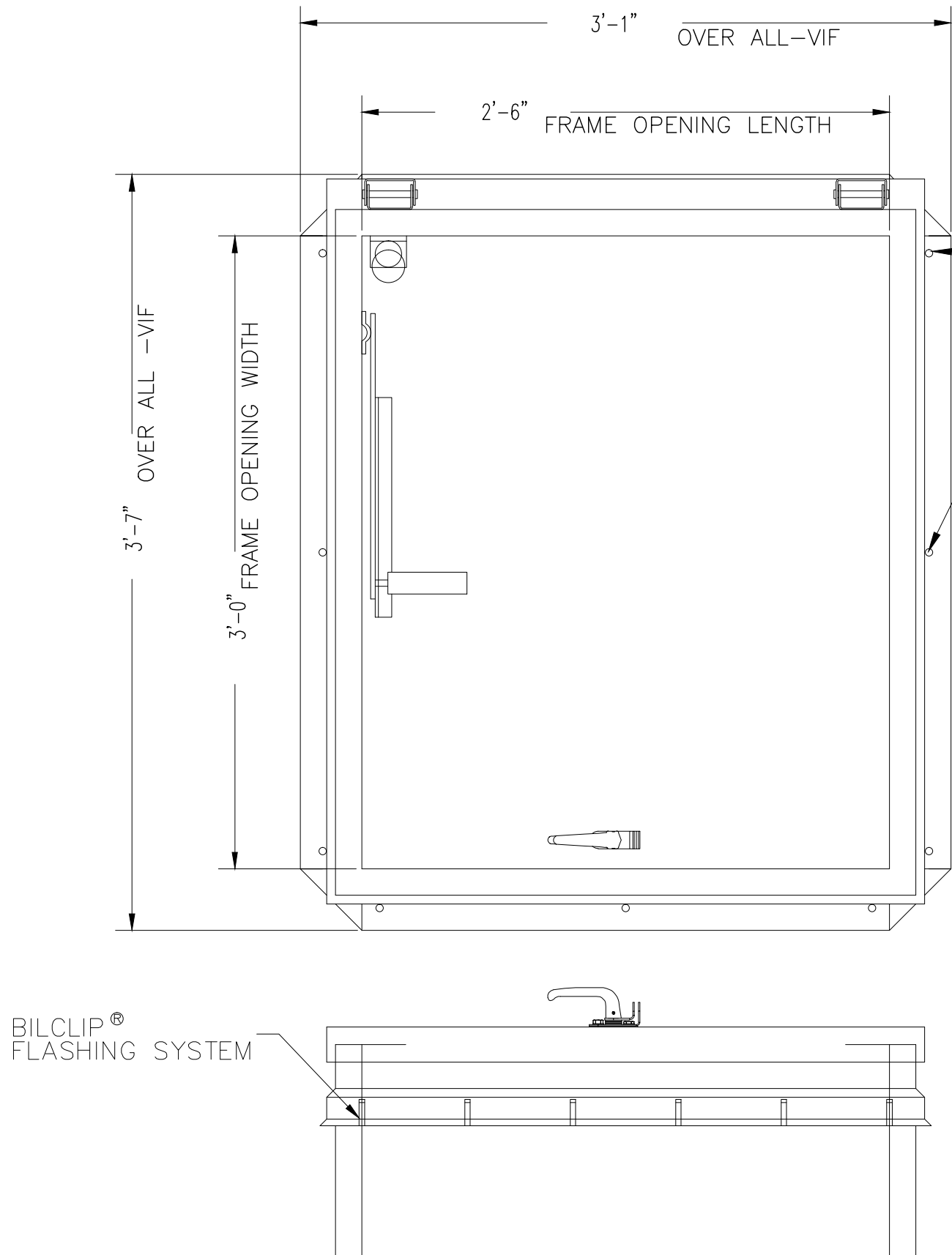
DATE:

PROJECT NO.:

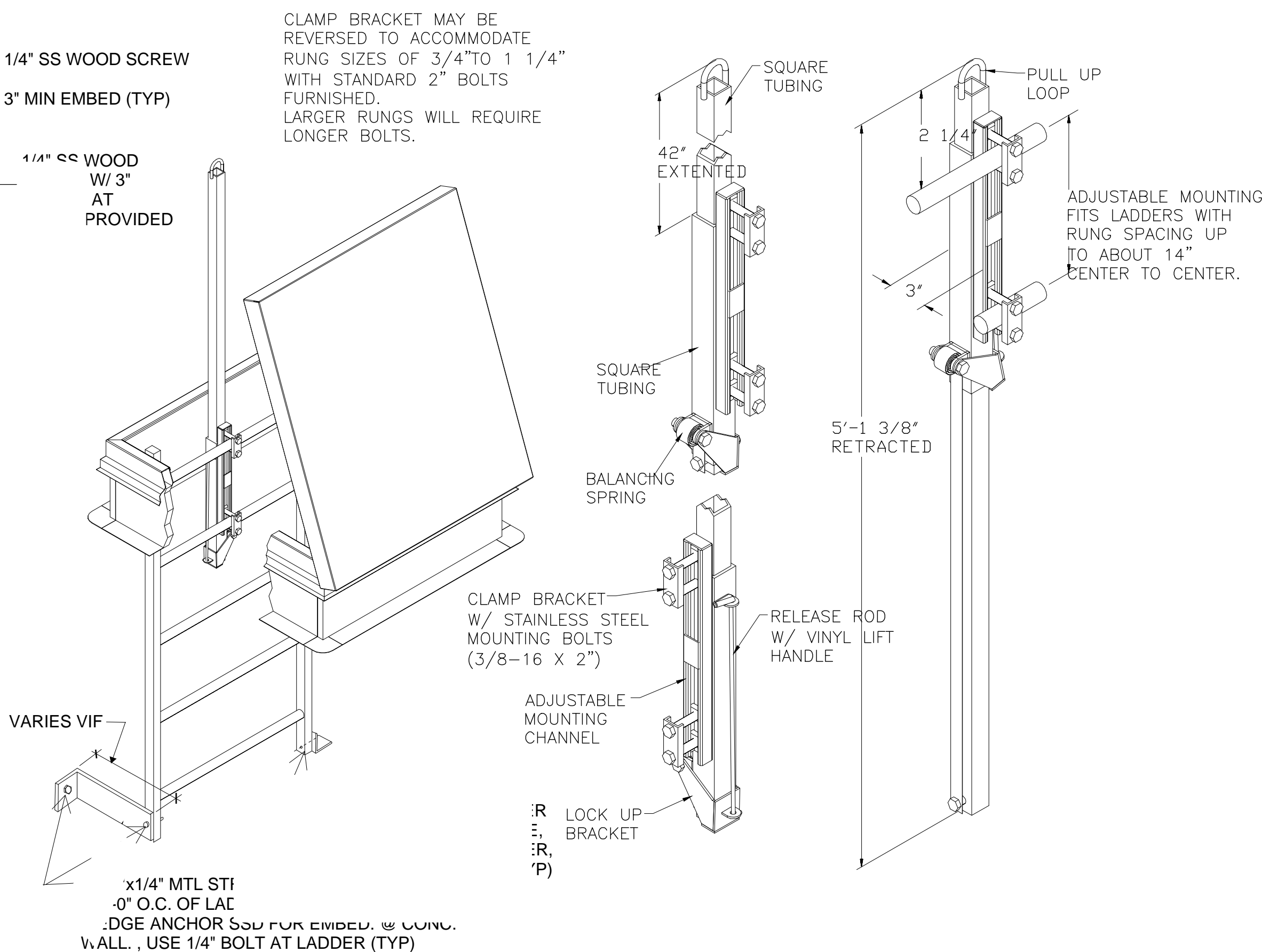
PERMIT APPLICATION NO.:

EXT. DETAILS

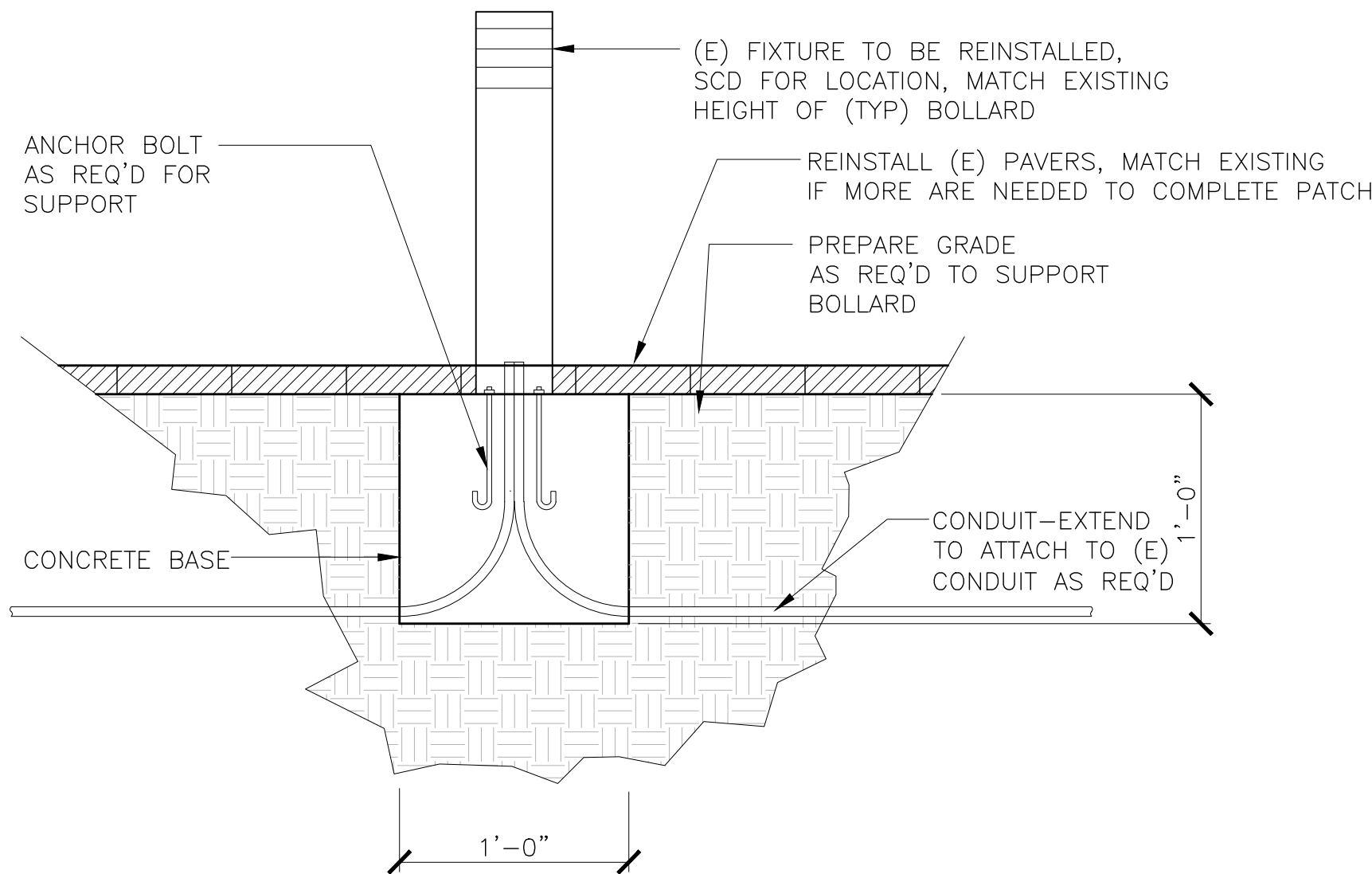
A8.04



11 ROOF HATCH PLAN



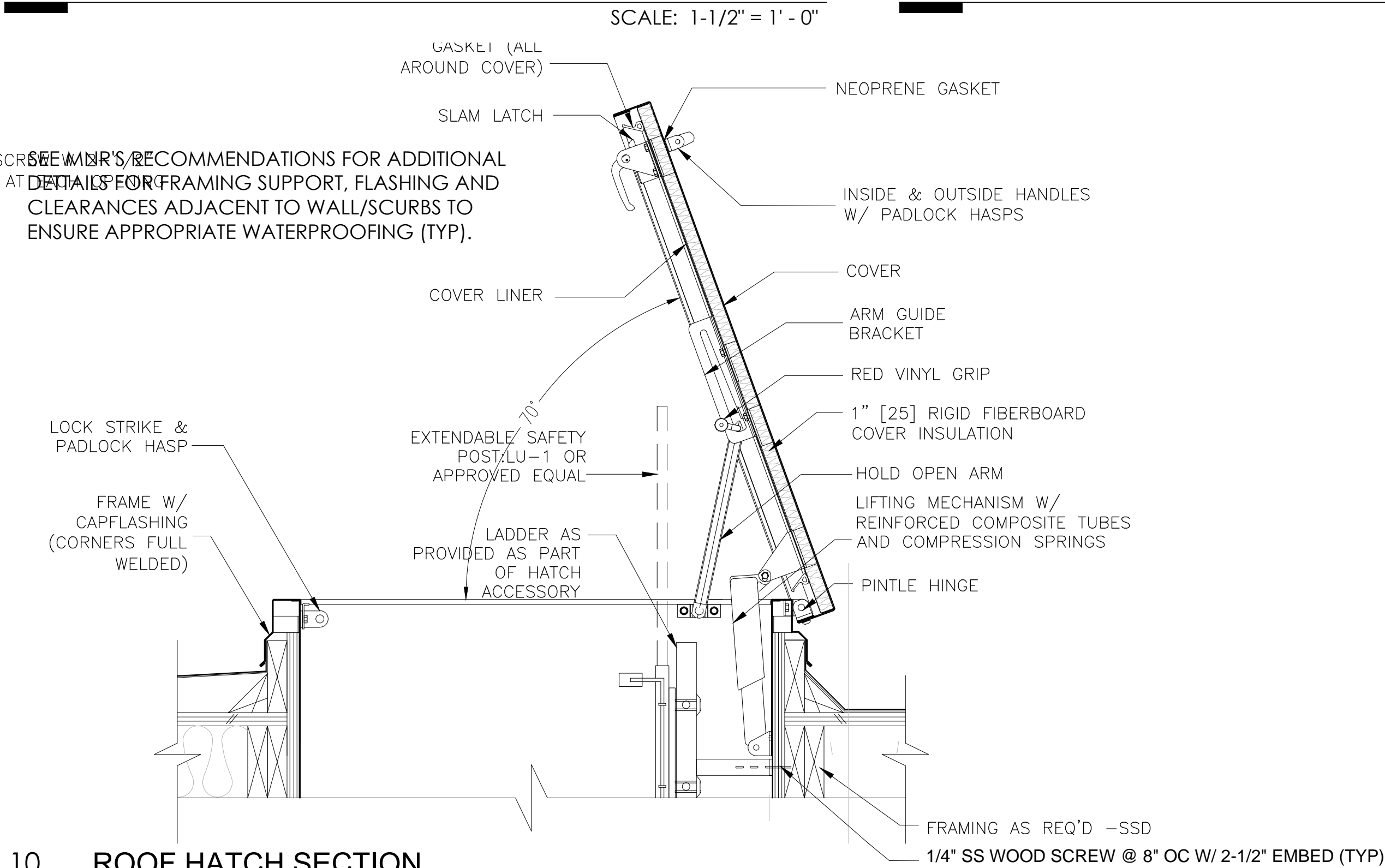
08 SAFETY POLE/LADDER AT HATCH (TYP)



03 BOLLARD BASE DETAIL - SECTION - SCD

(REFERENCE 2/E0.1 - FROM SCCD SET 8-28-1995)

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



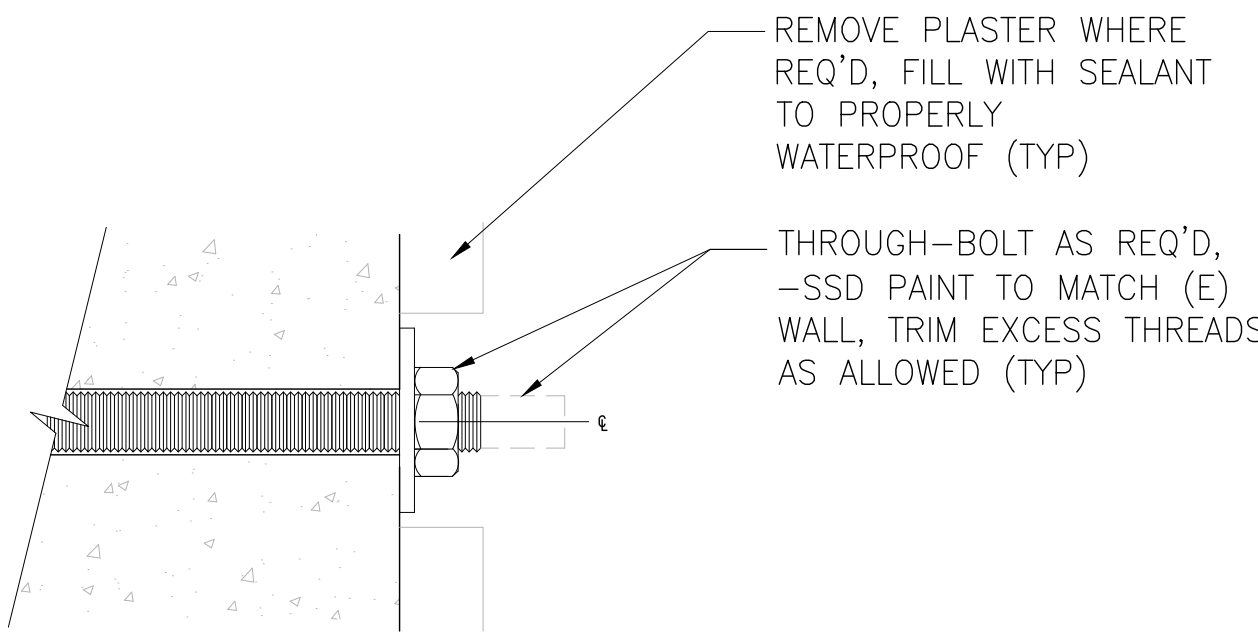
10 ROOF HATCH SECTION

SEE 8 & 11 / A8.04 & 3/A8.03 FOR ADD'L REQUIREMENTS (TYP)

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

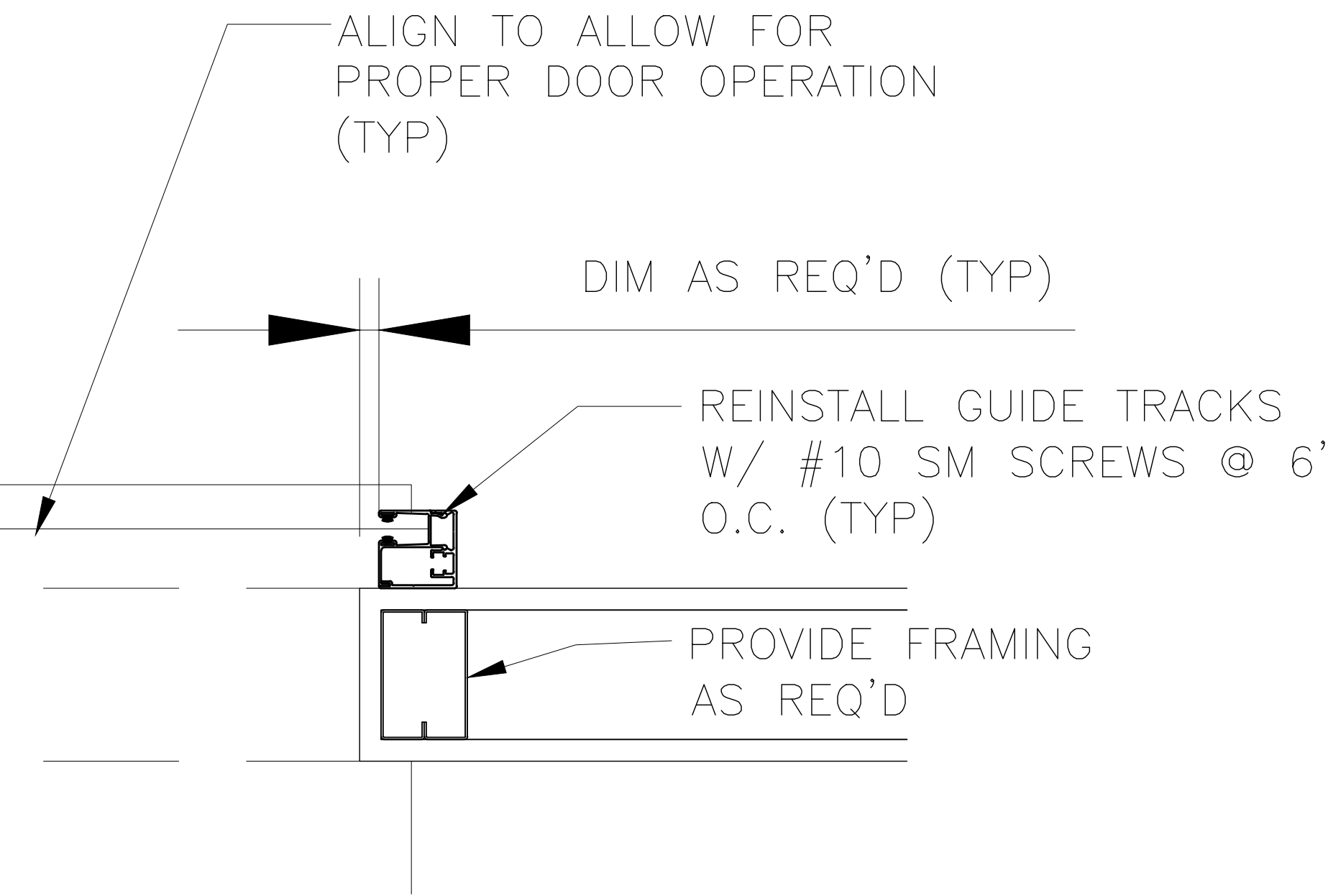
GENERAL HATCH AND LADDER REQUIREMENTS PER 2016 CMC AND CEC, & CCR DIV 8, SEC 3277 (TYP):

- PER CMC 904.10.3.3 ACCESS DOORS SHALL BE AT LEAST TWENTY-TWO (22) INCHES X TWENTY-FOUR (24) INCHES IN SIZE, SHALL OPEN EASILY AND SAFELY UNDER ALL CONDITIONS, ESPECIALLY SNOW, AND SHALL BE CONSTRUCTED SO AS TO PERMIT ACCESS FROM THE ROOF SIDE UNLESS DELIBERATELY LOCKED ON THE INSIDE. AT LEAST SIX (6) FEET OF CLEARANCE SHALL BE AVAILABLE BETWEEN THE ACCESS OPENING AND THE EDGE OF THE ROOF OR SIMILAR HAZARD (TYP).
- ALL RUNGS SHALL HAVE A MINIMUM DIAMETER OF 3/4 INCH FOR METAL LADDERS. THE DISTANCE BETWEEN THE TOP SURFACES OF RUNGS, CLEATS, AND STEPS SHALL NOT EXCEED 12 INCHES AND SHALL BE UNIFORM THROUGHOUT THE LENGTH OF THE LADDER EXCEPT THE VERTICAL DISTANCE OF THE FIRST RUNG FROM GROUND LEVEL MAY BE AS HIGH AS 14 INCHES. METAL LADDERS AND APPURTENANCES SHALL BE PAINTED OR OTHERWISE TREATED TO RESIST CORROSION AND RUSTING WHEN LOCATION DEMANDS.
- THE MINIMUM DESIGN LIVE LOAD SHALL BE A SINGLE CONCENTRATED LOAD OF 300 POUNDS.
- ALL HATCH COVERS SHALL OPEN A MINIMUM OF 60 DEGREES FROM THE HORIZONTAL. THE DISTANCE FROM THE CENTER LINE OF RUNGS OR CLEATS TO THE EDGE OF THE HATCH OPENING ON THE CLIMBING SIDE SHALL BE NOT LESS THAN 24 INCHES FOR OFFSET WELLS OR 30 INCHES FOR STRAIGHT WELLS.

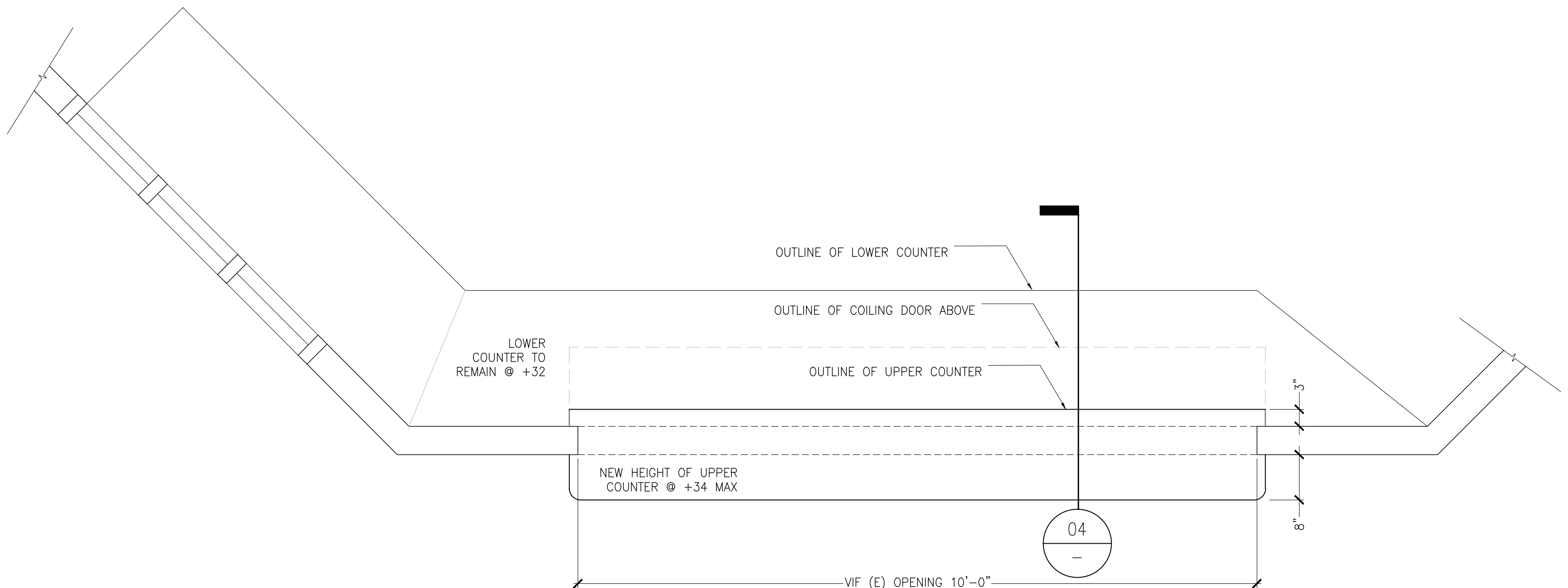


01 ANCHOR BOLT AT EXT WALL - SSD

SCALE: 3" = 1' - 0"

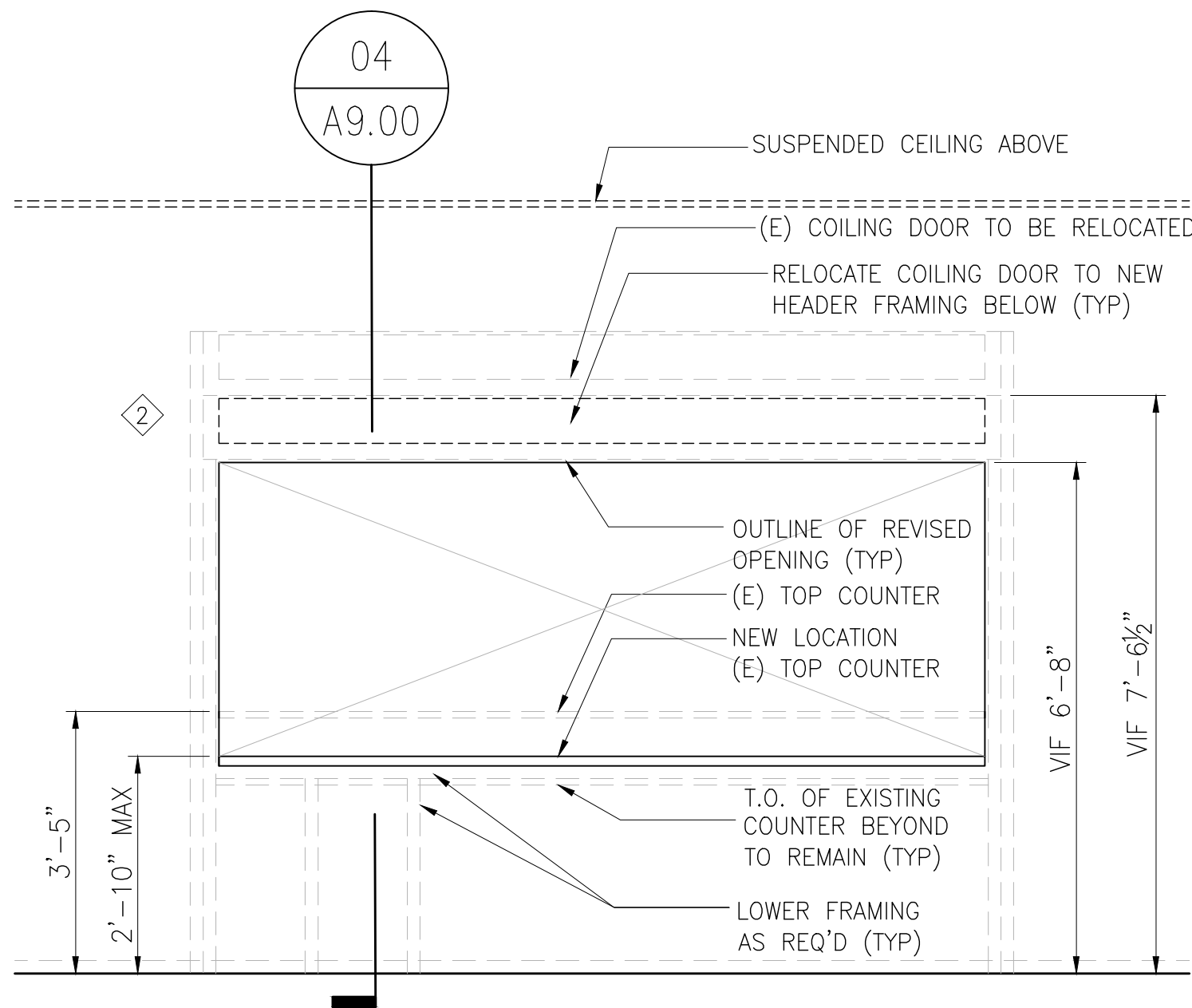


14 TYPICAL JAMB DETAIL AT COILING DOOR
SCALE: 3" = 1' - 0"

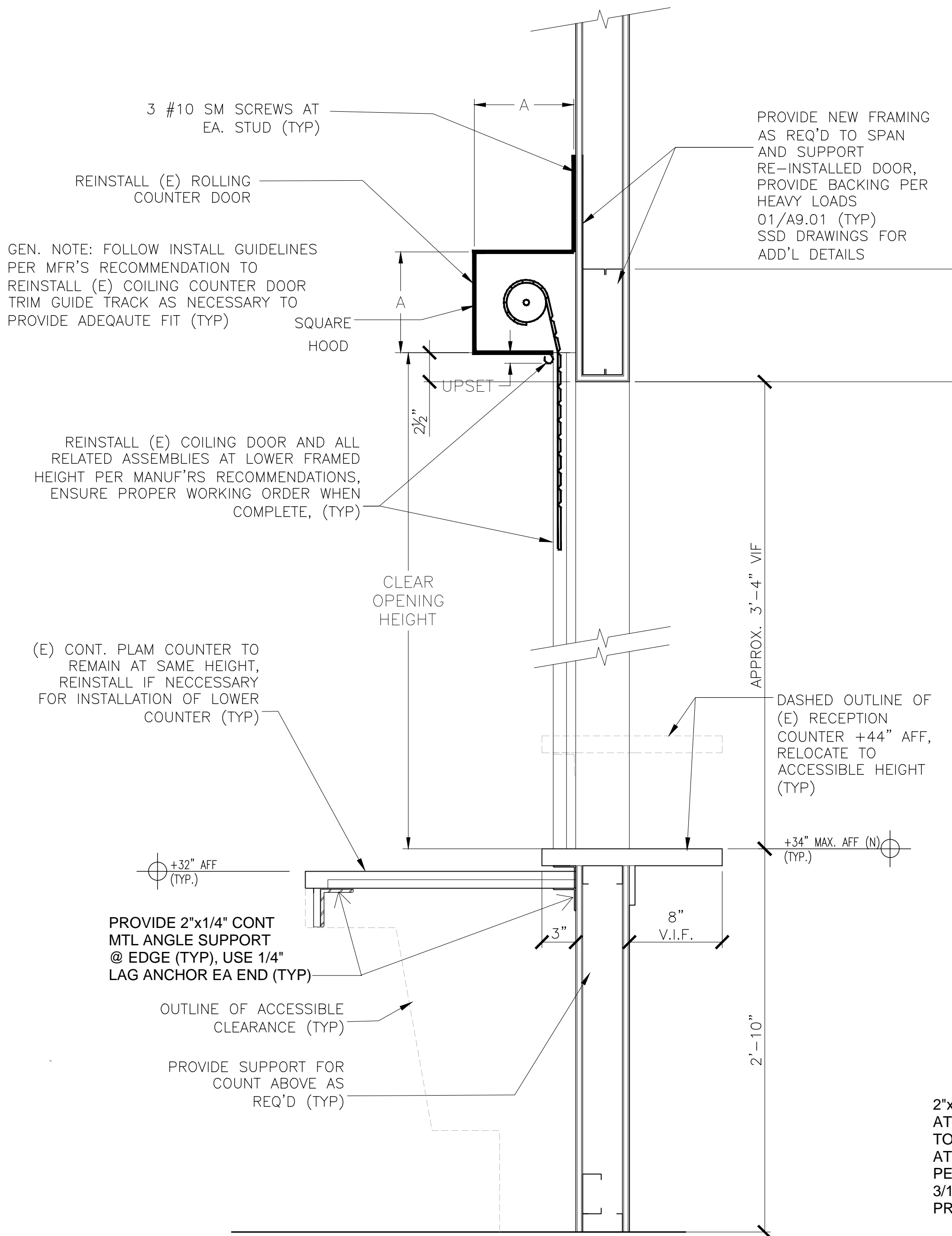


06 PARTIAL PLAN @ADMIN OFFICE COILING SHUTTER
SCALE: 3/4" = 1' - 0"

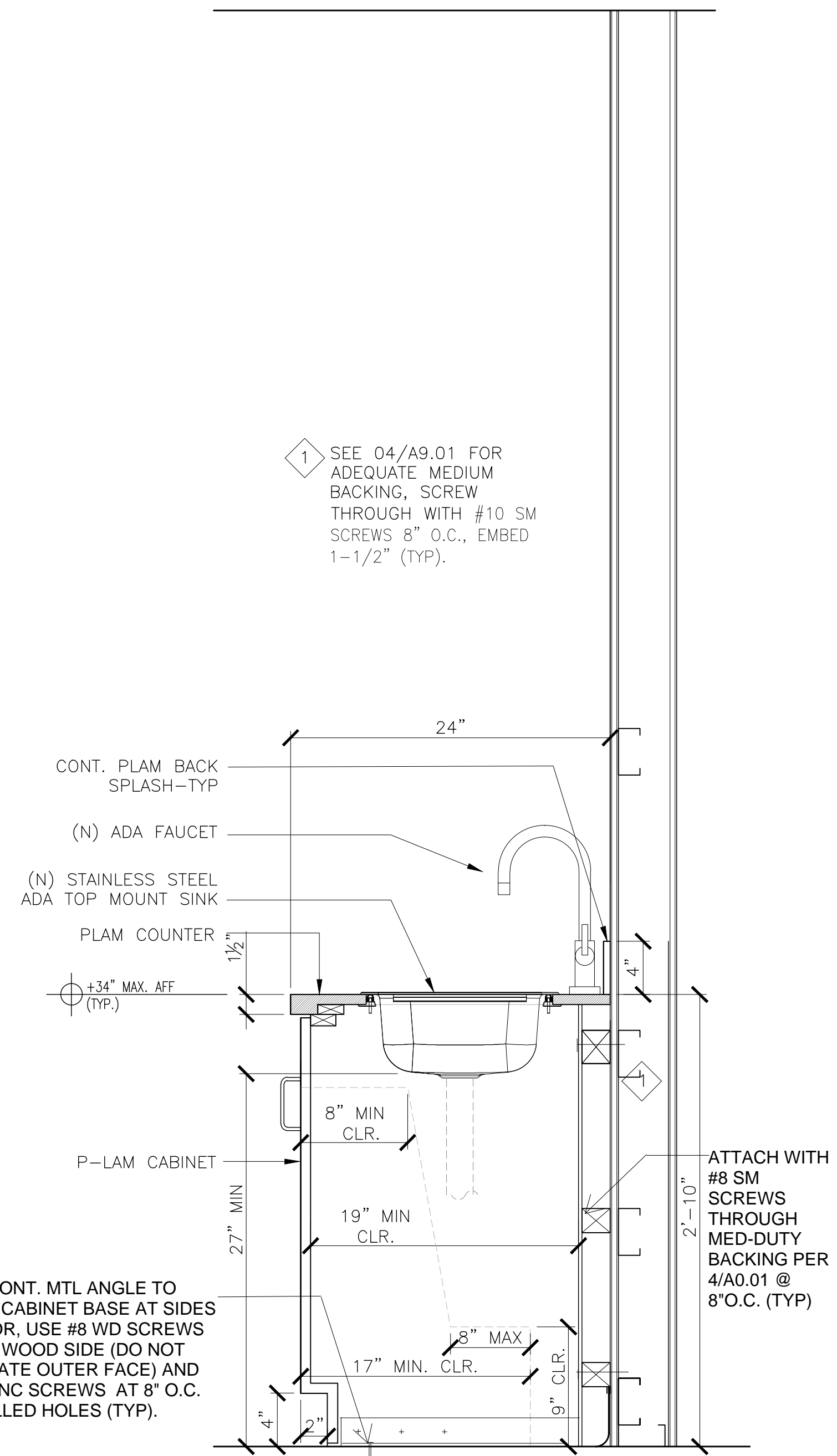
GENERAL NOTE FOR COILING COUNTER DOOR: REMOVE (E) TOP COUNTER AND COILING DOOR/ ASSEMBLY TO BE REINSTALLED OVER LOWER TOP COUNTER AND HEAD AS SHOWN. MAINTAIN (E) HEIGHT OF OPENING AND REINSTALL ALL DOOR HARDWARE, TRACKS AND ACCESSORIES TO ALLOW FOR COILING DOOR TO REMAIN OPERATIONAL.



10 PARTIAL ELEVATION @ADMIN OFFICE COILING SHUTTER
SCALE: 1-1/2" = 1' - 0"



04 SECTION @ADMIN OFFICE COILING SHUTTER
SCALE: 1-1/2" = 1' - 0"



01 SECTION @ACCESSIBLE SINK & COUNTERTOP
SCALE: 1-1/2" = 1' - 0"

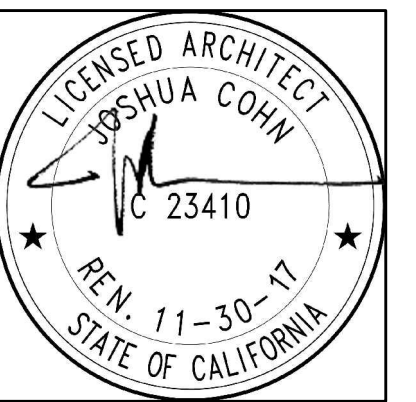
OWNER:
Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:
CA ARCHITECTS
475 Gate Five Road, Suite 107
Sausalito, CA 94965
T 415.331.7655
F 415.331.7656

PROJECT:
Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

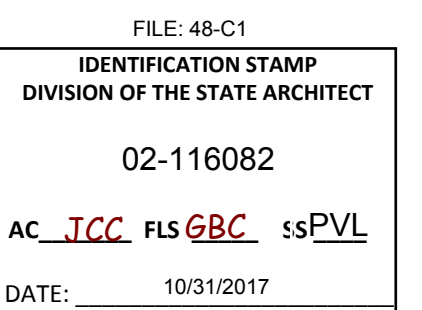
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06/30/2017		ISSUE FOR CD 60%
07/20/2017		ISSUE FOR CD 100%
10/18/2017		DSA BACKCHECK

KEY PLAN:



SCALE:
DATE:
PROJECT NO:
PERMIT APPLICATION NO:

**INTERIOR
DETAILS
A9.00**

OWNER:

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

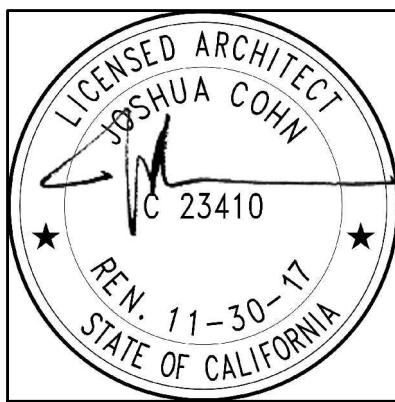
CA ARCHITECTS
475 Gate Five Road, Suite 107
Sausalito, CA 94965
T 415.331.7655
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PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

STAMP

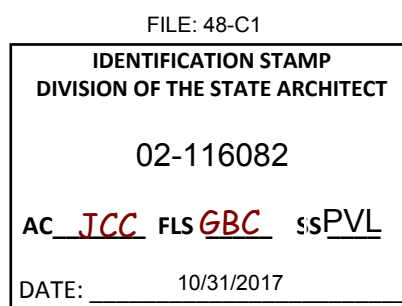


SHEET LEGEND:

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06/30/2017		ISSUE FOR CD 60%
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10/18/2017		DSA BACKCHECK

KEY PLAN:



SCALE:

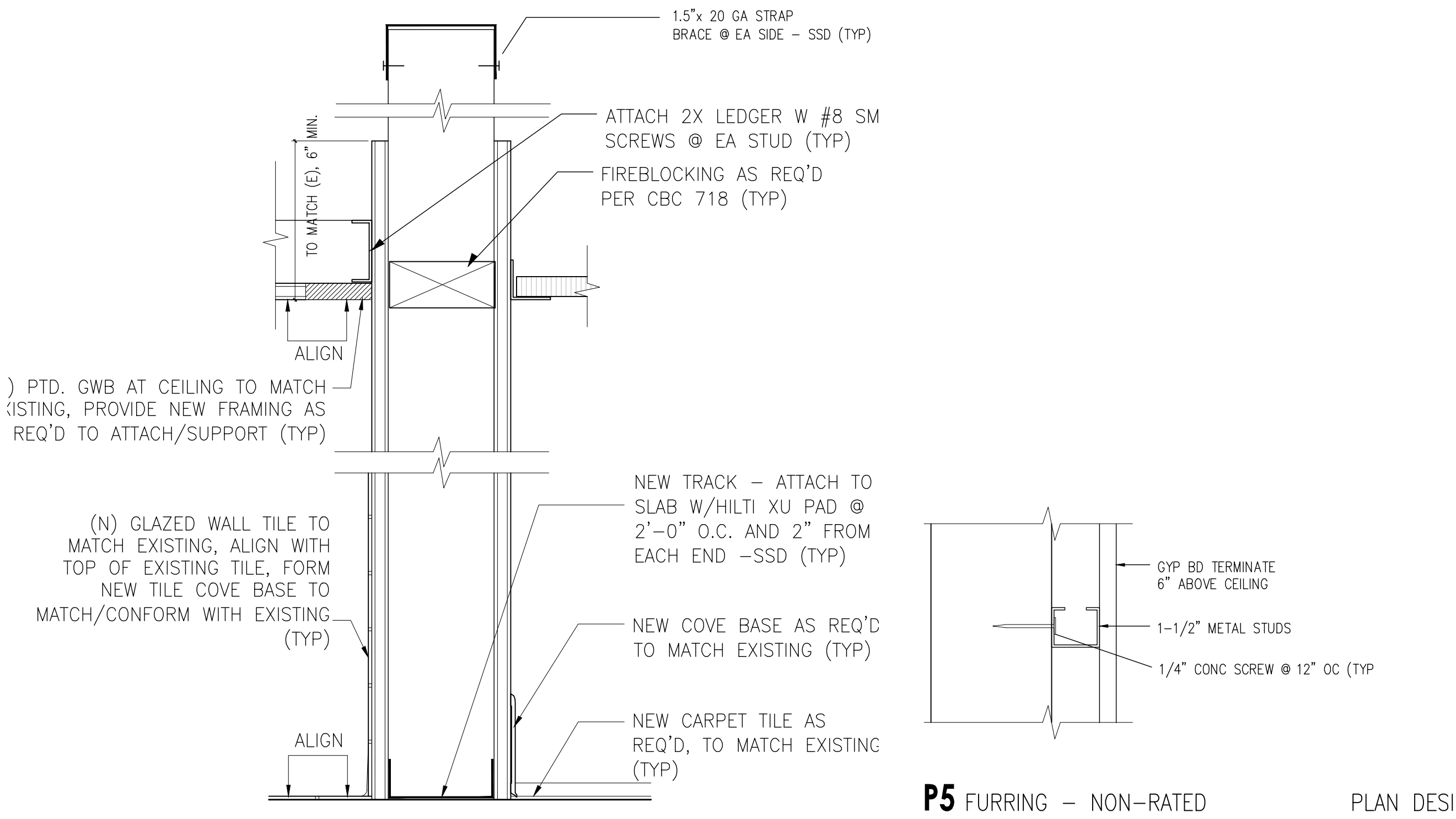
DATE:

PROJECT NO:

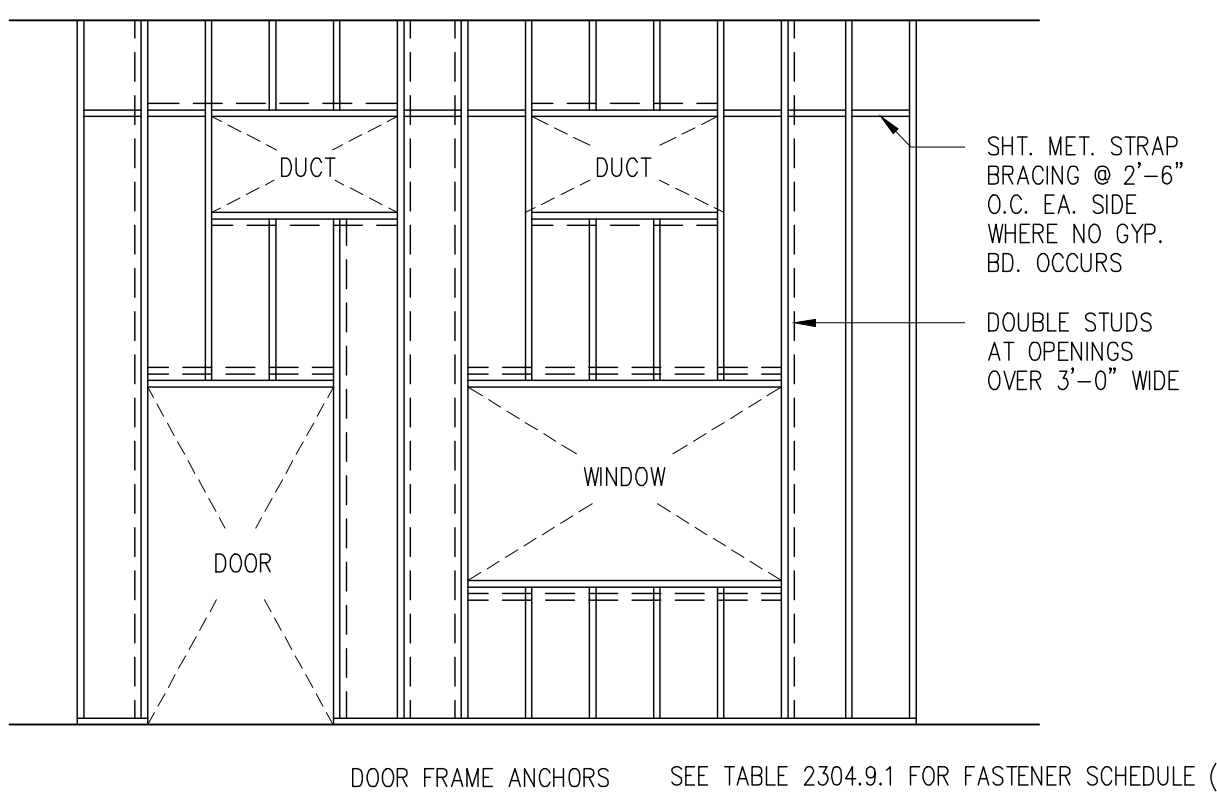
PERMIT APPLICATION NO.:

**INTERIOR
DETAILS**

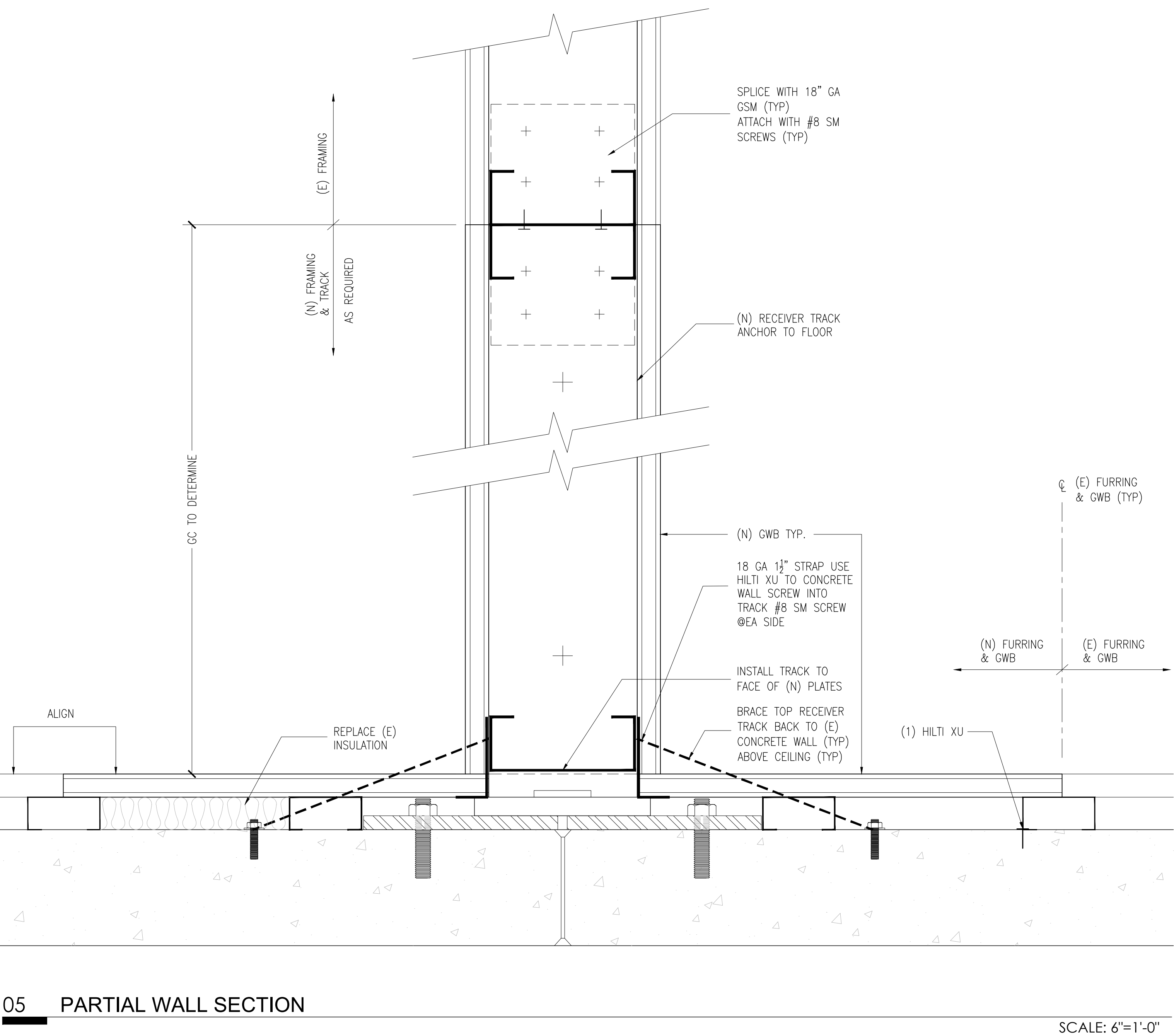
A9.01



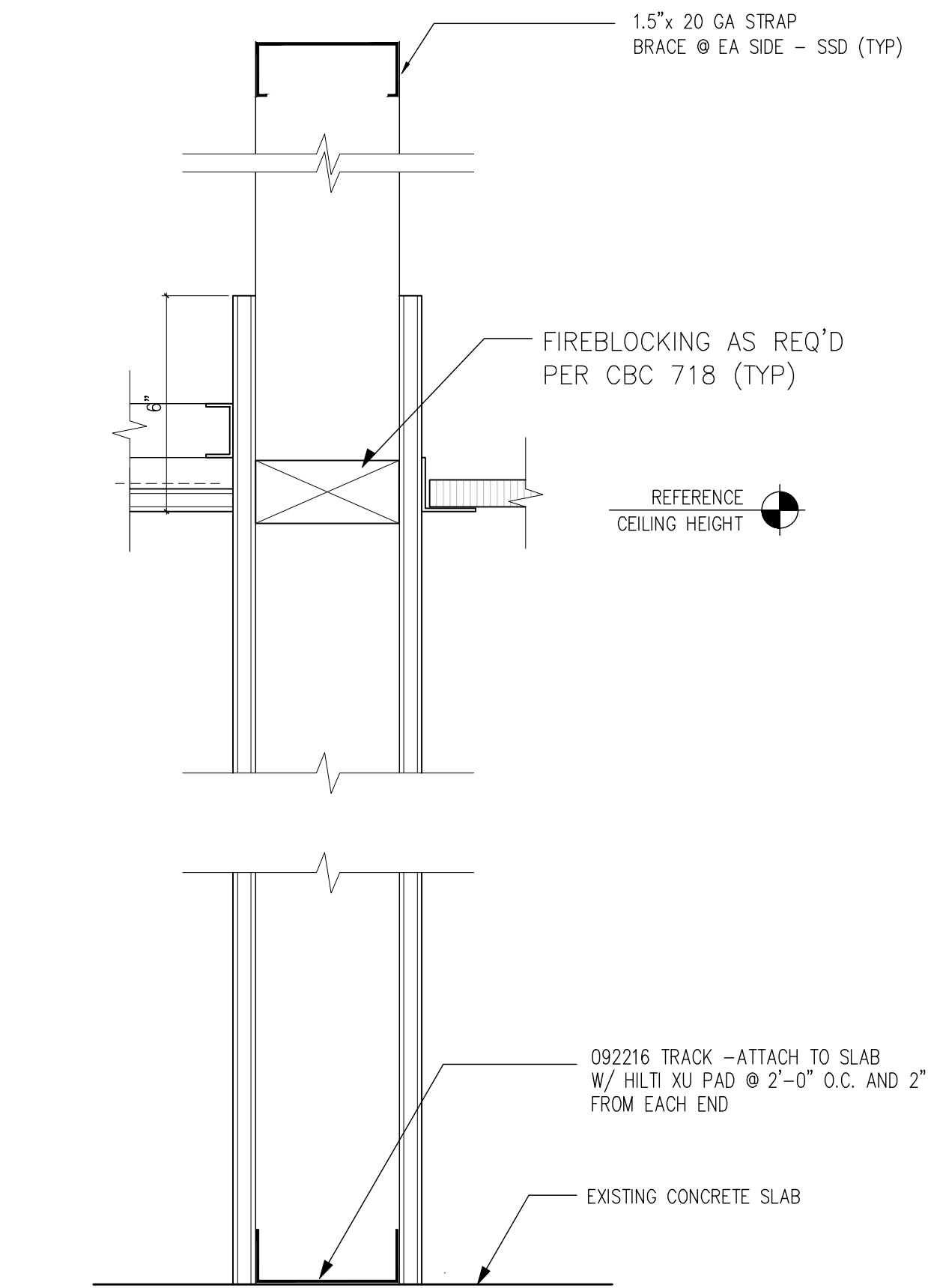
12 WALL SECTION @ (N) WALL RESTROOMS 111&112
SCALE: 3" = 1' - 0"



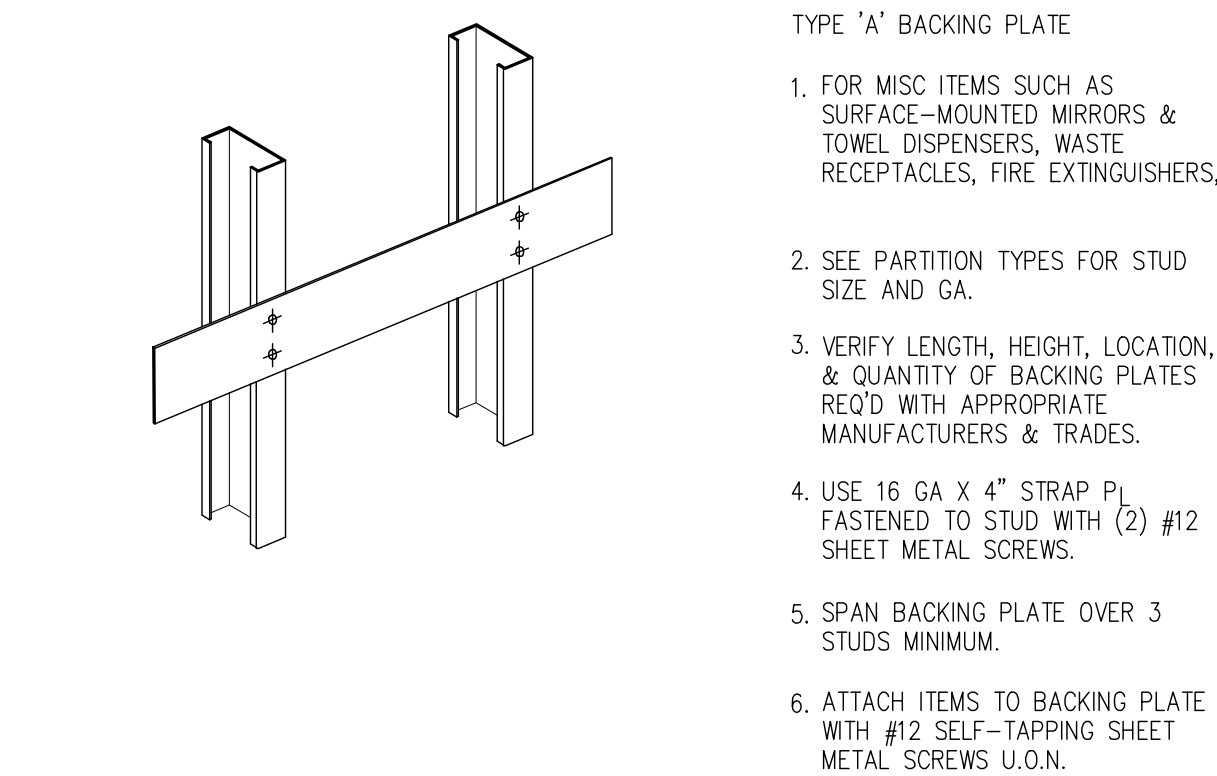
08 TYPICAL WALL FRAMING CONTRACT
SCALE: 1/4"=1'-0"



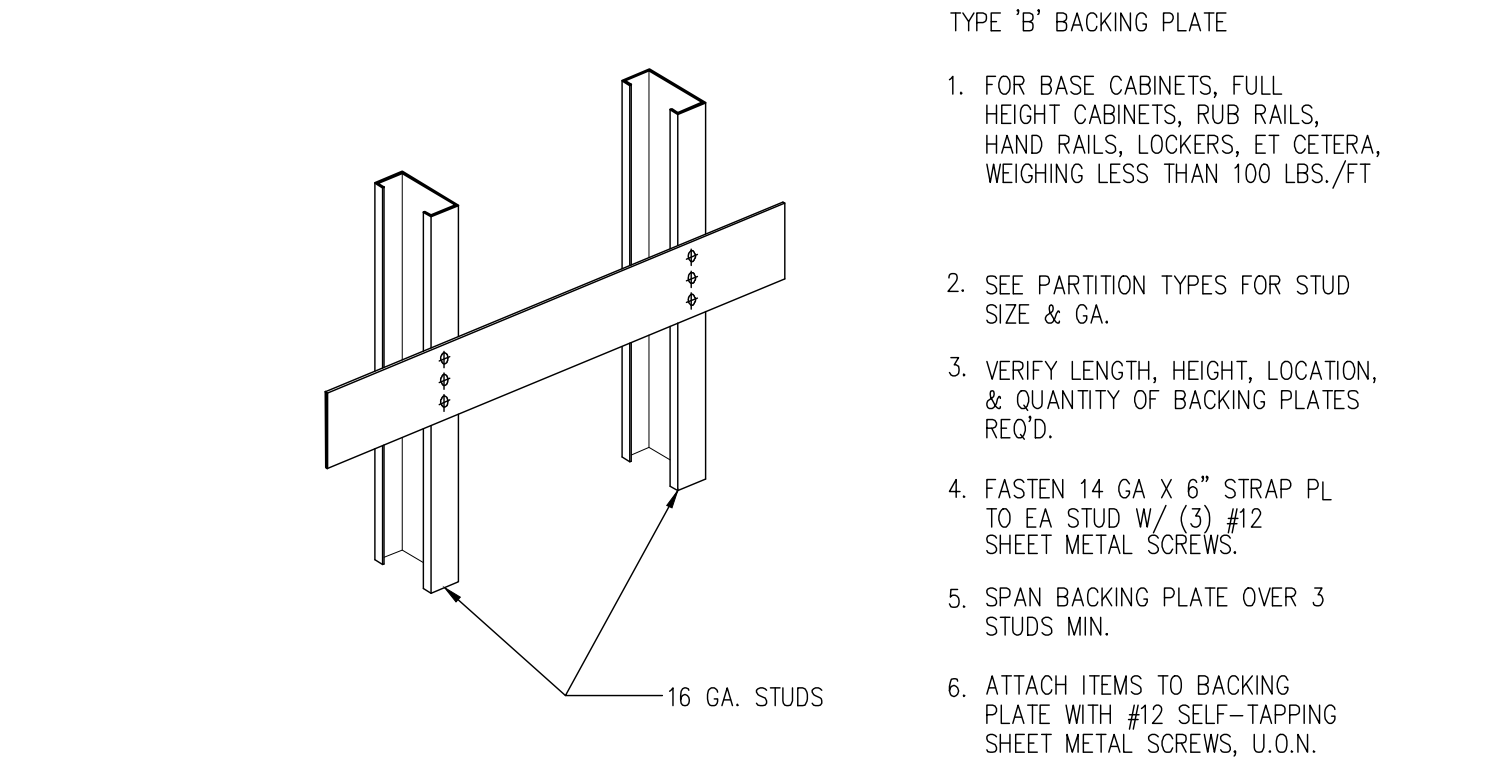
05 PARTIAL WALL SECTION



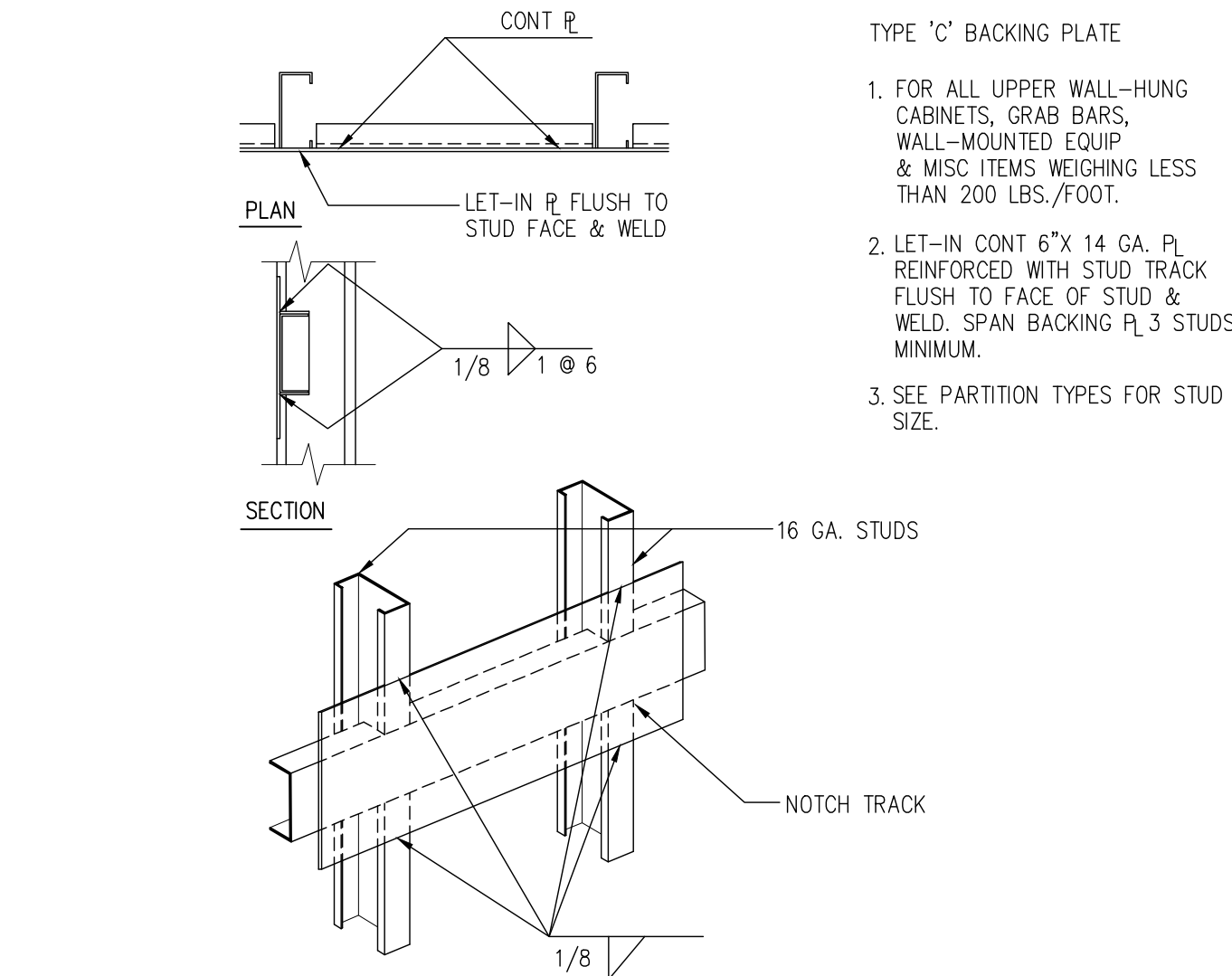
10 NON - RATED WALL SECTION
SCALE: 3" = 1' - 0"



07 BACKING PLATE LIGHT LOADS



04 BACKING PLATE - MOD LOADS



01 BACKING PLATE - HEAVY LOADS

OWNER:

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

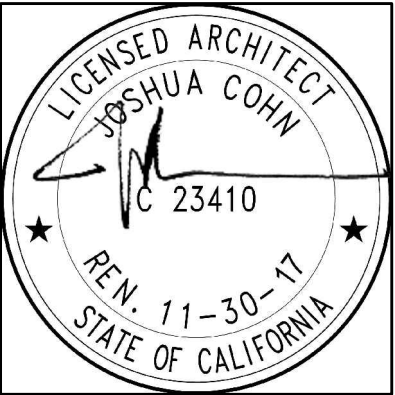
CA ARCHITECTS
475 Gate Five Road, Suite 107
Sausalito, CA 94965
T 415.331.7655
F 415.331.7656

PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

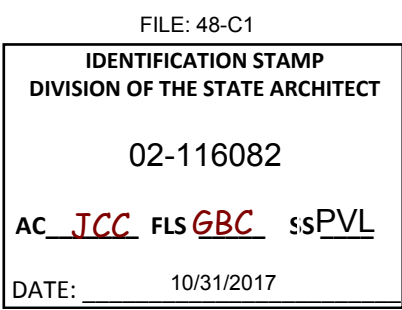
STAMP



SHEET LEGEND:

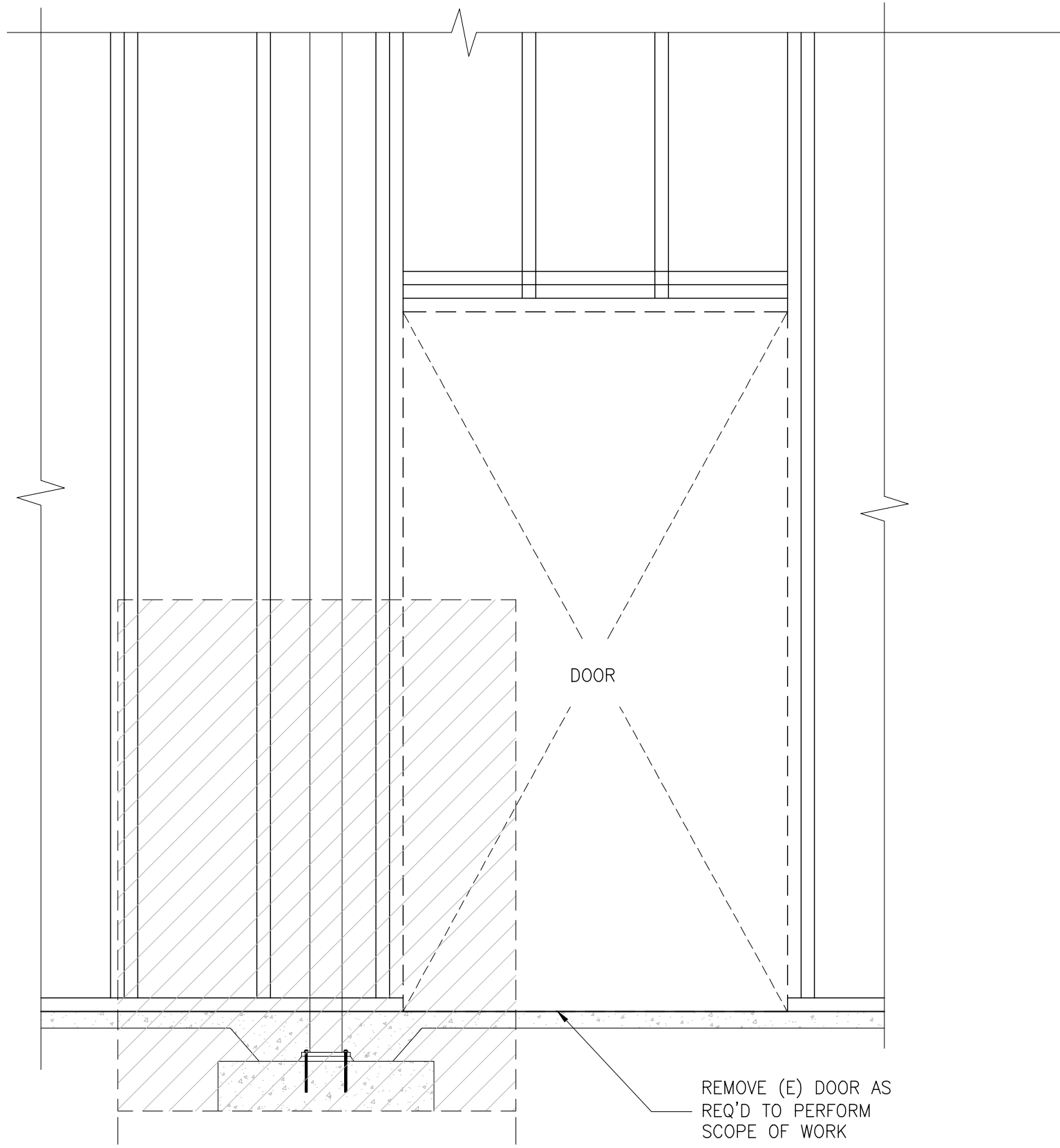
ISSUE/REVISION:		
NO:	DATE:	DESCRIPTION:
04/25/2017		ISSUE FOR DD 100%
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06/30/2017		ISSUE FOR CD 60%
07/20/2017		ISSUE FOR CD 100%
10/18/2017		DSA BACKCHECK

KEY PLAN:



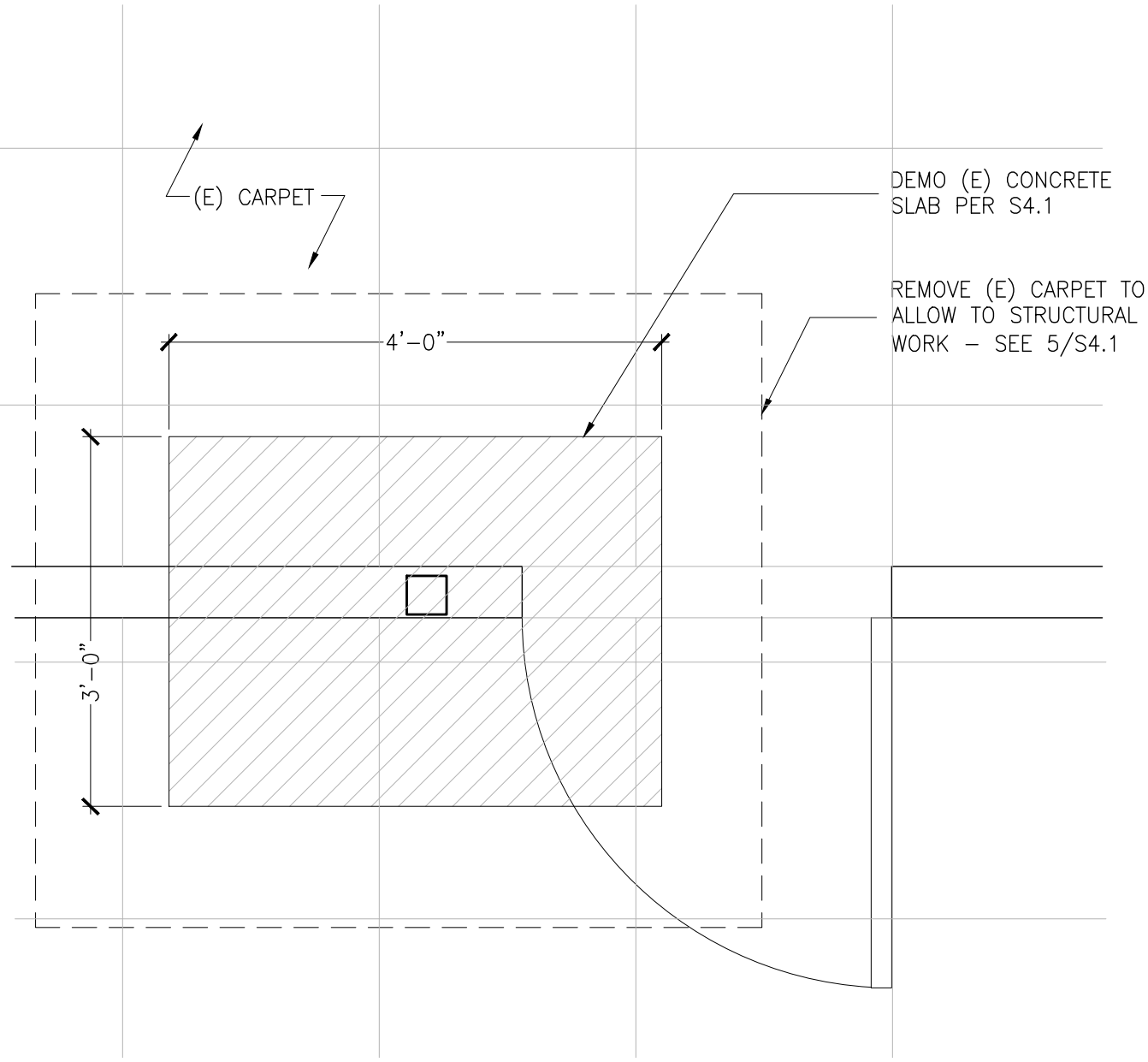
SCALE: _____
DATE: _____
PROJECT NO: _____
PERMIT APPLICATION NO: _____

INTERIOR DETAILS A9.02



10 PARTIAL ELEVATION

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



07 PLAN VIEW

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

OWNER:

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

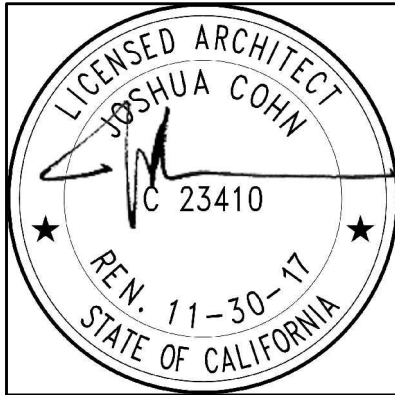
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PROJECT:

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(Annex) Renovation Project

CONSULTANT TEAM:

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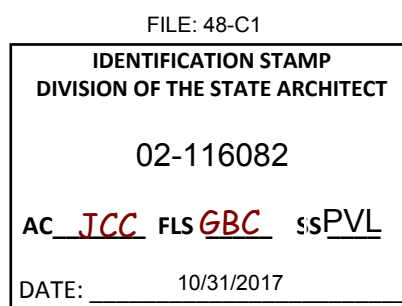


SHEET LEGEND:

ISSUE/REVISION:

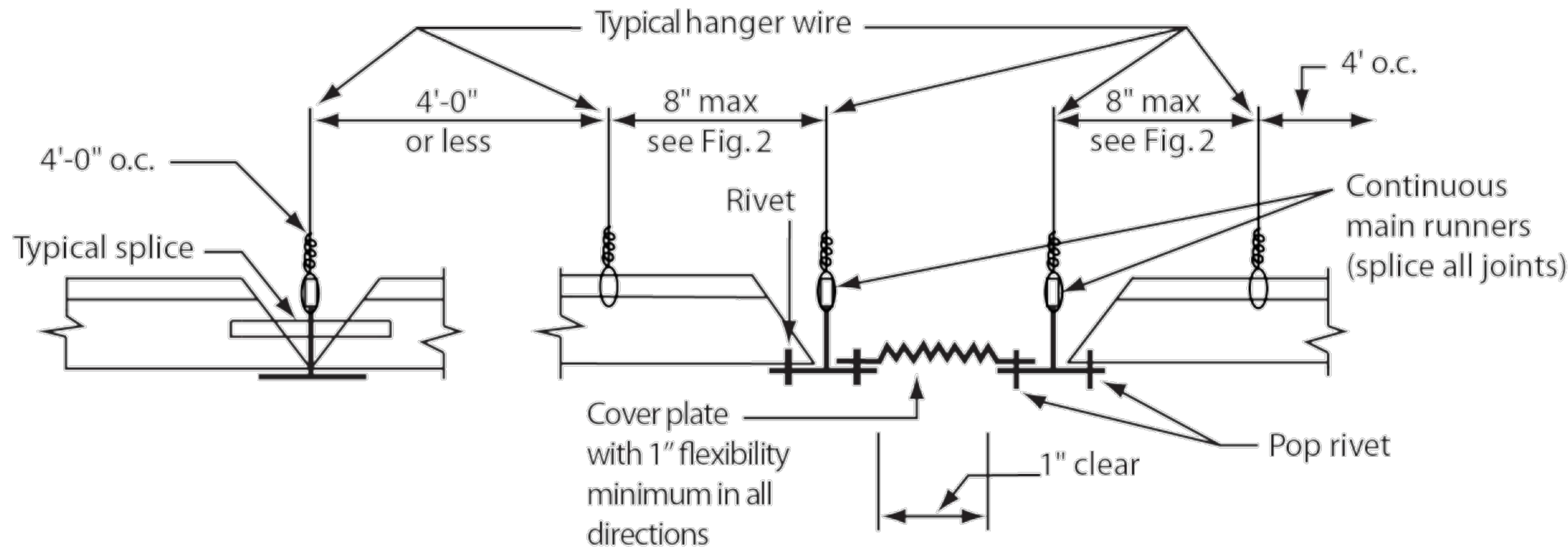
NO.	DATE	DESCRIPTION
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06/30/2017		ISSUE FOR CD 60%
07/20/2017		ISSUE FOR CD 100%
10/18/2017		DSA BACKCHECK

KEY PLAN:



SCALE:
DATE:
PROJECT NO:
PERMIT APPLICATION NO:

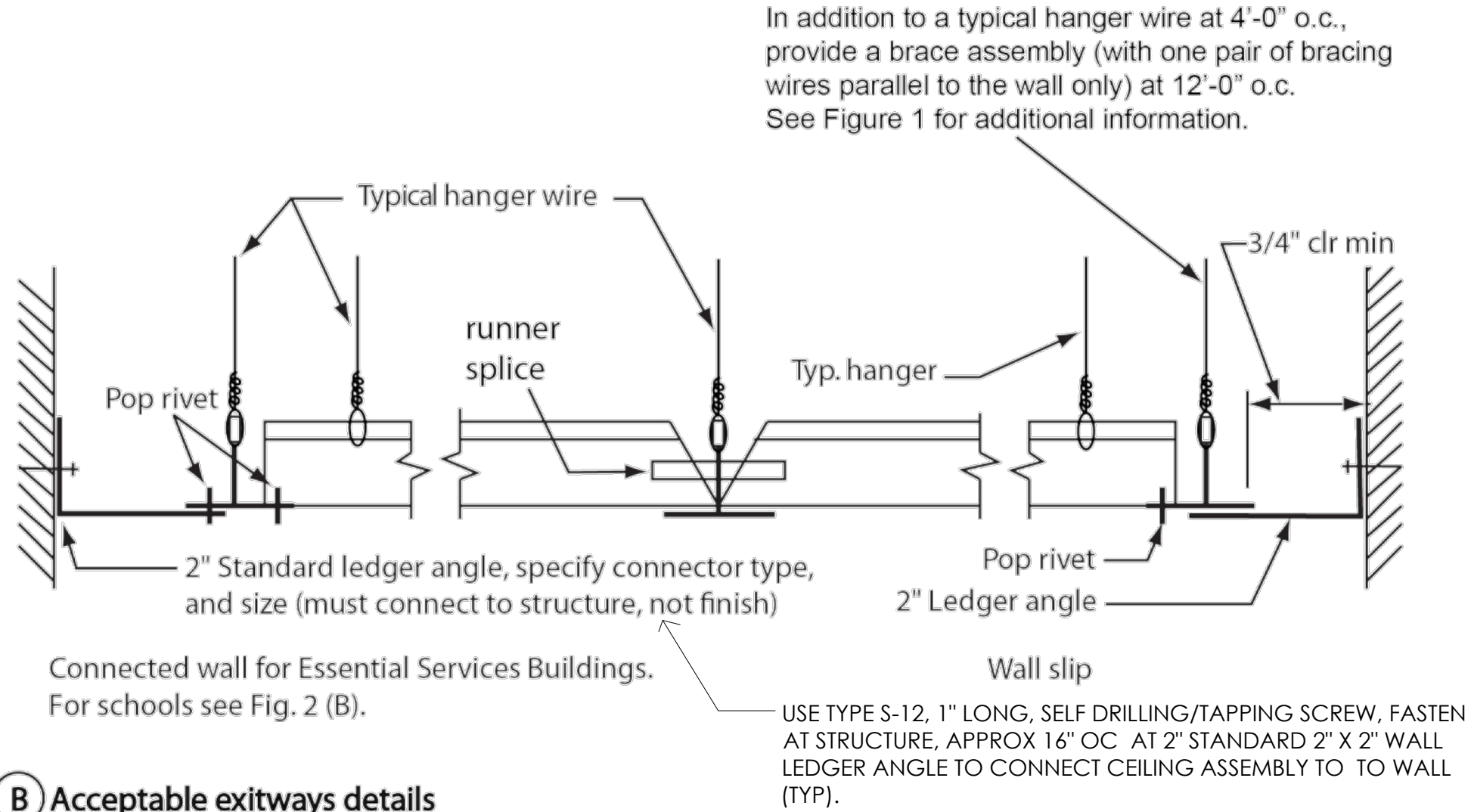
**INTERIOR
DETAILS
A9.03**



A Expansion joint at intersections of corridors, junctions of corridors and lobbies, similar areas and ceiling areas over 2500 sq. ft.

12 SUSPENDED CEILING - EXPANSION DETAILS (TYP.)

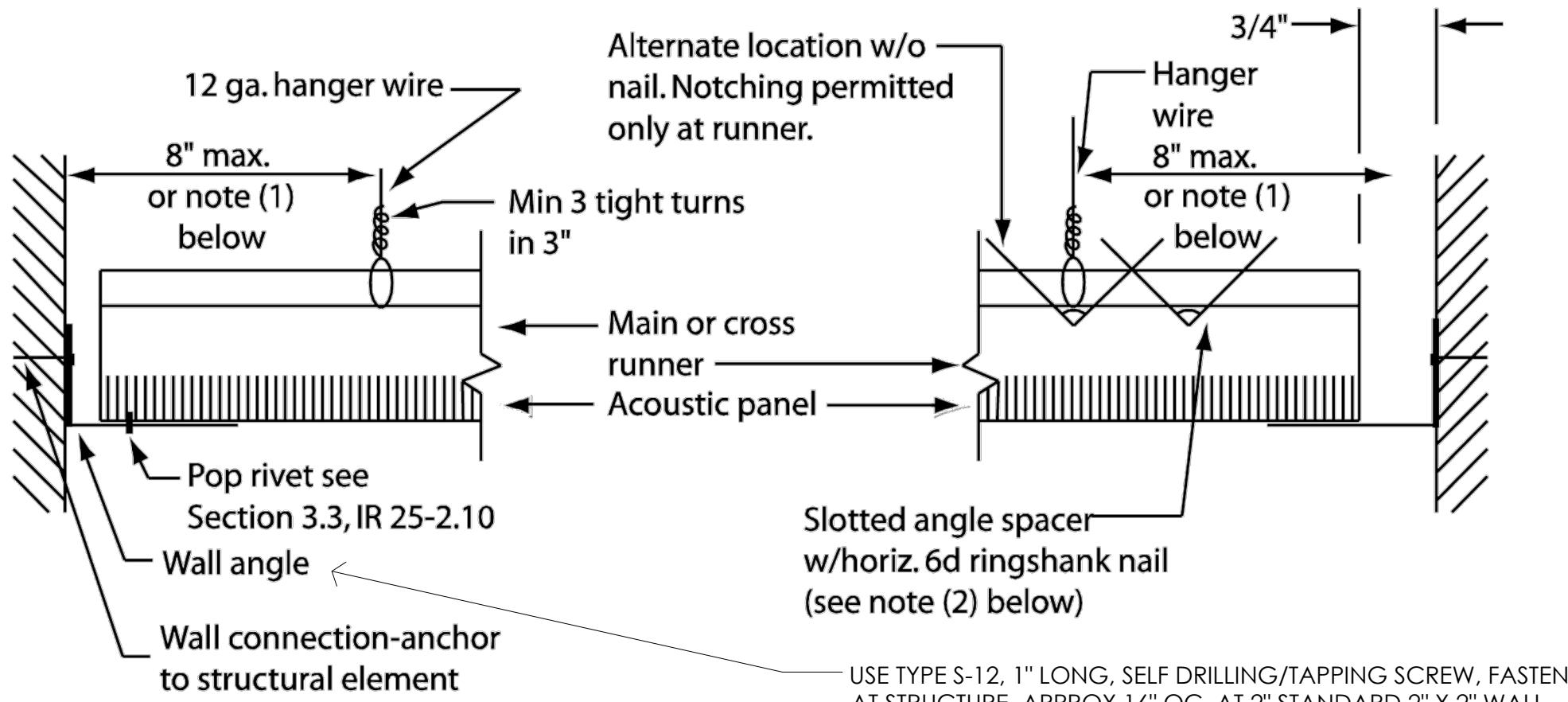
NTS



B Acceptable exitways details

06 SUSPENDED CEILING - EXITWAYS DETAILS (TYP.)

NTS



(B) Perimeter details - typical (see Section 3.5)

Notes: (1) 1/4 of the length of the end runner whichever is less.
(2) Nails at the end of horizontal struts are to be placed with nail head toward centerline of span of strut.
(3) Hanger wire not required for cross runners less than 8" long between main runner and wall.

11 PERIMETER DETAILS (TYP.)

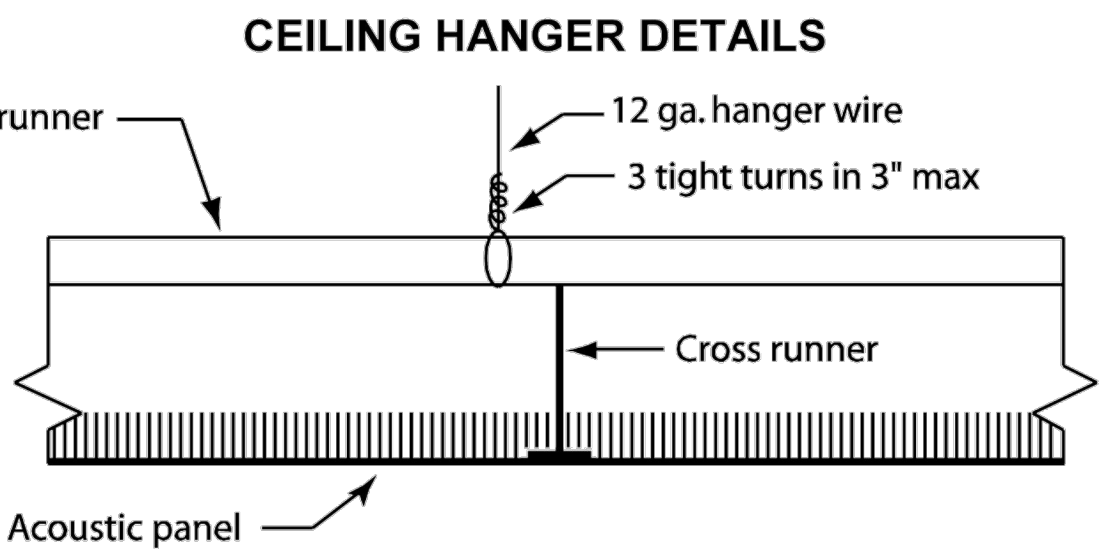
NTS

TYPE	TUBE LENGTHS (inches)		OVERALL COMPRESSION POST LENGTH (inches)	
	1-inch Diameter	3/4-inch Diameter	Minimum	Maximum
VSA 18/30	17	17	18	30
VSA 30/48	24	30	30	48
VSA 48/84	48	40	48	84
VSA 84/102	72	40	84	102

For SI: 1 inch = 25.4 mm.

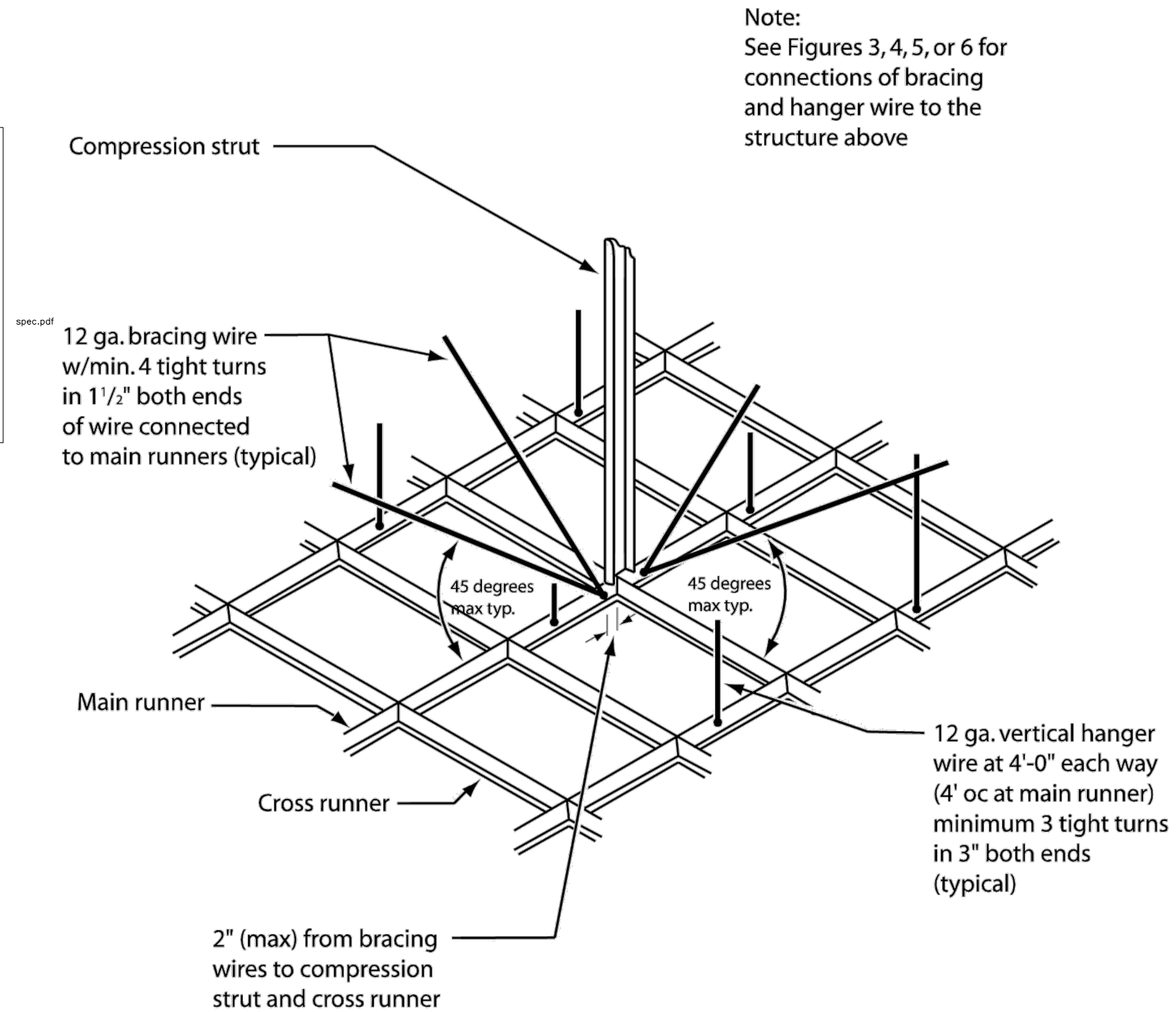
05A COMPRESSION STRUT SIZING CHART (TYP)

NTS



05 HANGER GRID DETAIL (TYP)

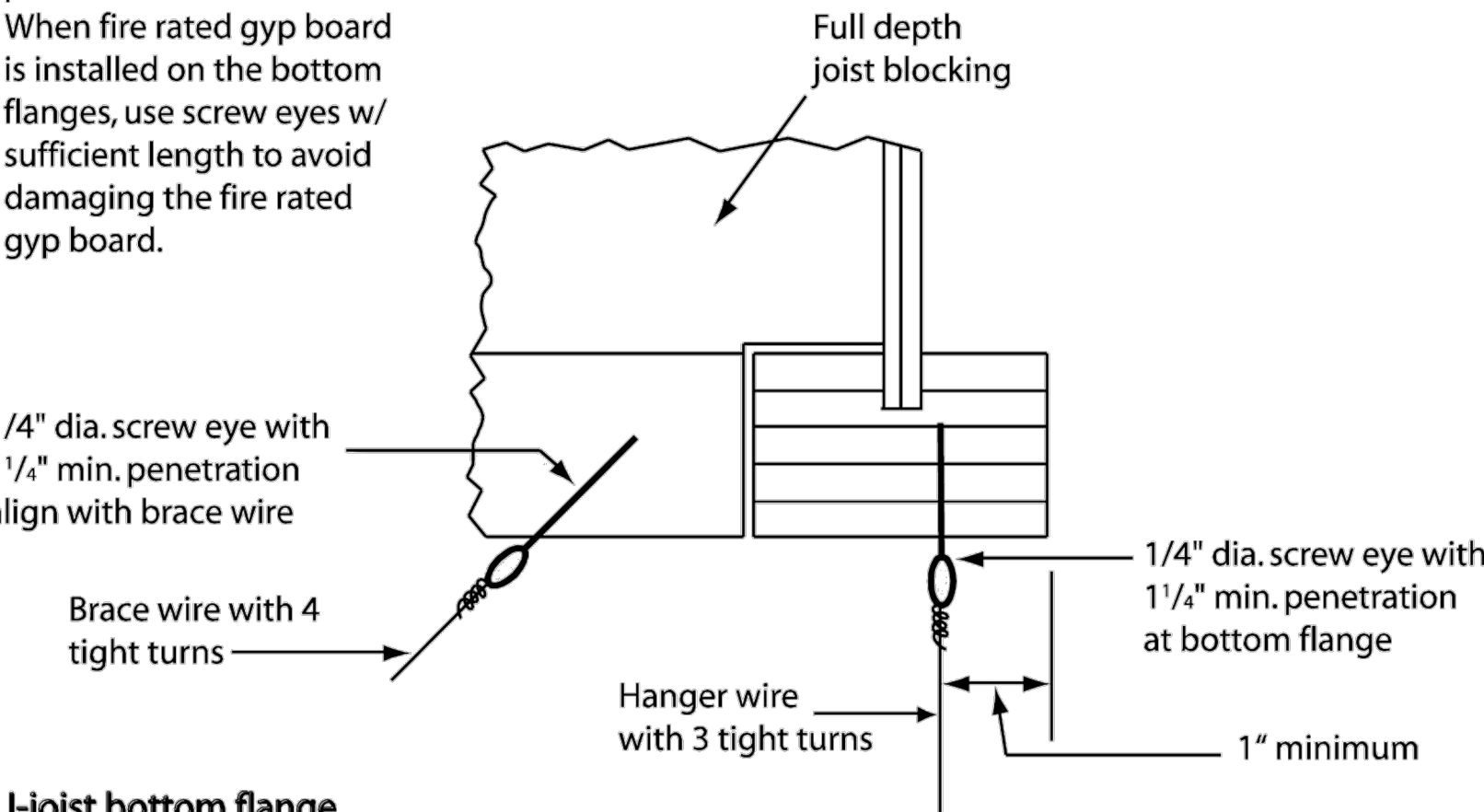
NTS



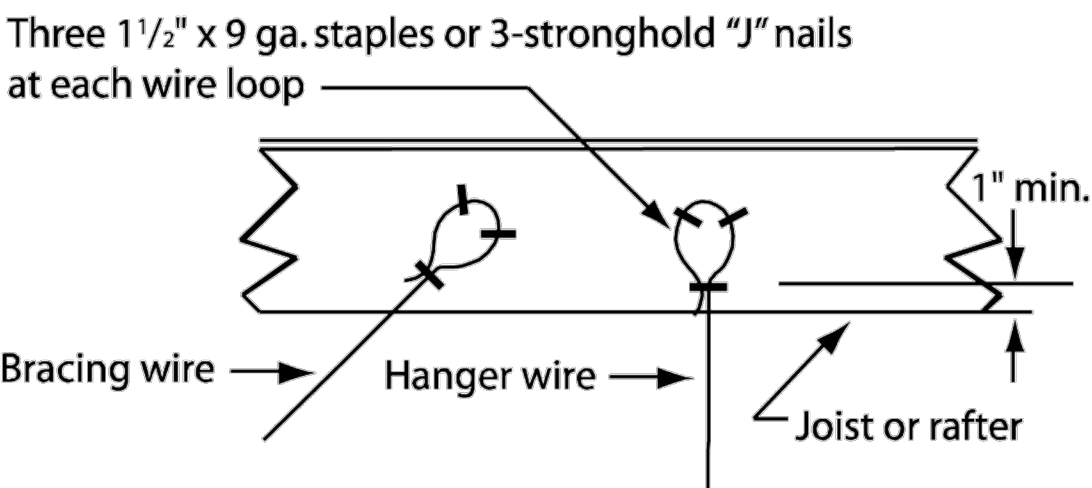
02 COMPRESSION STRUT DETAIL (TYP)

NTS

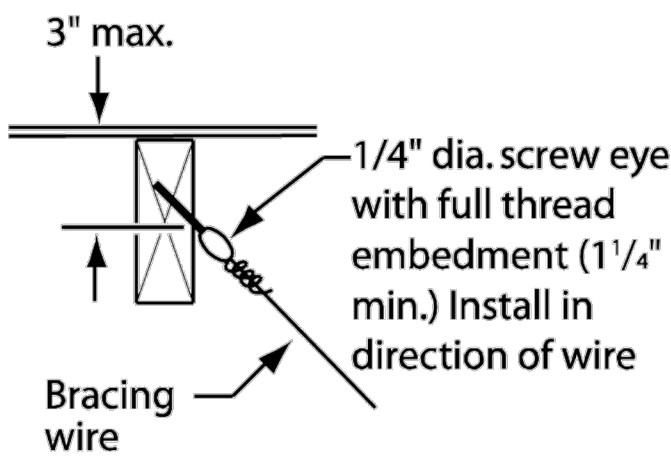
Notes: (1) Do not insert screw eyes parallel to laminations
(2) When fire rated gyp board is installed on the bottom flanges, use screw eyes w/ sufficient length to avoid damaging the fire rated gyp board.



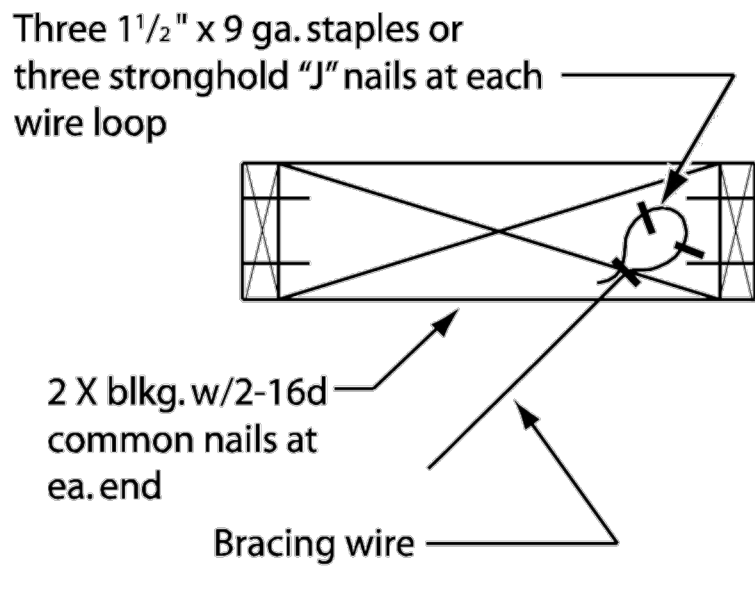
(H) Wood I-joist bottom flange



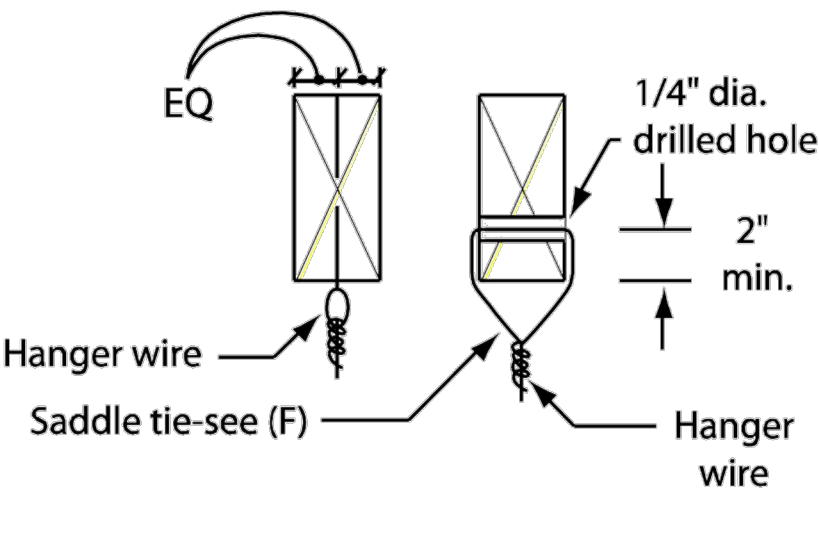
(A) Wood joist or rafter



(B) Wood joist or rafter



















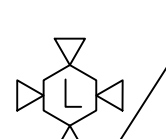










(C) Wood joist or block



(D) At bottom of joist

10 ACCEPTABLE DETAILS - WIRE CONNECTIONS TO WOOD FRAMING

NTS

GENERAL NOTES		ABBREVIATIONS		DRAWING INDEX	
<div>1. THE WORK INCLUDES THE FURNISHING OF ALL LABOR AND MATERIALS FOR THE COMPLETE INSTALLATION OF ALL ELECTRICAL SYSTEMS AND EQUIPMENT REFERRED TO, IMPLIED OR SHOWN ON THE DRAWINGS EXCEPT SUCH MATERIALS AND EQUIPMENT AS MAY BE SPECIFIED OR INDICATED TO BE PROVIDED BY OTHERS.</div> <div>2. THE ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND VERIFY FIELD CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN HIS BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE INTENT OF THE ELECTRICAL DRAWINGS AND ALL APPLICABLE CODES. ELECTRICAL CONTRACTOR SHALL ALLOW FOR DEMOLITION WORK NECESSARY FOR A COMPLETE INSTALLATION OF THE NEW ELECTRICAL EQUIPMENT.</div> <div>3. THE ELECTRICAL CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH ALL CODES, RULES AND REGULATIONS OF GOVERNING AGENCIES HAVING JURISDICTION, ALL OF WHICH ARE HEREBY MADE A PART OF THE PLANS. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS, HAVE WORK INSPECTED AND PAY FOR THE SAME. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL DELIVER TO OWNER A "CERTIFICATE OF INSPECTION" APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.</div> <div>4. LOCATION OF ALL EQUIPMENT AND OUTLETS AS SHOWN ON THE DRAWINGS ARE APPROXIMATELY ONLY, EXCEPT WHERE DIRECTED BY DIMENSIONS, HEIGHT OR DETAILS. CONFIRM LOCATIONS BY REFERENCE TO ARCHITECTURAL, AND EQUIPMENT DETAILS AND VERIFY WITH ARCHITECT.</div> <div>5. THE ELECTRICAL CONTRACTOR SHALL INFORM HIMSELF PRIOR TO SUBMISSION OF BIDS AS TO THE ELECTRICAL WORK REQUIRED BY OTHER SECTIONS OF THE PLANS, SUCH AS THE ARCHITECTURAL, MECHANICAL, ETC. AND INCLUDE THOSE ITEMS INDICATED TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR OR "BY OTHERS".</div> <div>6. THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER THE ELECTRICAL DRAWINGS IN THE REPRESENTATION OF THE GENERAL CONSTRUCTION WORK AND THE DRAWINGS OF THE VARIOUS TRADES TAKE PRECEDENCE IN THE REPRESENTATION OF THE WORK OF THOSE TRADES. THE CONTRACTOR SHALL REFER TO ALL DRAWINGS TO COORDINATE THE ELECTRICAL WORK WITH THE WORK DONE ON OTHER TRADES.</div> <div>7. THE ARCHITECT RESERVES THE RIGHT TO MOVE ANY OUTLETS WITHIN THE RADIUS OF SIX FEET WITHOUT ADDITIONAL EXPENSES TO THE OWNER. NO ALLOWANCE WILL BE MADE FOR EXTRAS FOR ANY CHANGES IN LOCATIONS EXCEPT WHERE EQUIPMENT HAS BEEN SET AND CONNECTED BEFORE ANY CHANGE IS ORDERED AND THEN ONLY WHEN SUCH CHANGE IS IN WRITING.</div> <div>8. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHENEVER POSSIBLE, BUT THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL THE CONTRACT DOCUMENTS AND SHALL VERIFY THIS INFORMATION.</div> <div>9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THE CONDUITS WITH MINIMUM NUMBER OF BENDS IN SUCH A MANNER AS TO CONFORM TO THE STRUCTURES, AVOID OBSTRUCTIONS, MAINTAIN HEAD ROOM, DEEP OPENINGS AND PASSAGEWAYS CLEAR, BE COMPATIBLE WITH LATEST CONSTRUCTION METHOD, AND MEET ALL STRUCTURAL CODE REQUIREMENTS. FURNISH AND INSTALL PULL BOX AS NECESSARY FOR LONG CONDUIT RUNS.</div> <div>10. ALL ELECTRICAL OUTLETS, MOTORS, DEVICES, APPARATUS, EQUIPMENT FIXTURES AND APPLIANCES WHEREVER INSTALLED, "BY OTHERS", SHALL BE FULLY CONNECTED TO THE PROPER ELECTRICAL SOURCES AND CONTROLS AND LEFT IN OPERATIONAL CONDITION.</div> <div>11. WHERE CONNECTIONS ARE SPECIFIED TO BE MADE TO EQUIPMENT FURNISHED BY OTHER DIVISIONS, OBTAIN THE REQUIRED ROUGH-IN DIMENSIONS AND CONNECTION DIAGRAMS FROM THE RESPECTIVE DIVISIONS FOR EACH ITEM AND ASSUME FULL RESPONSIBILITY FOR NEAT AND WORKMANLIKE INSTALLATION OF CONDUIT AND WIRE CONNECTION.</div> <div>12. CONTRACTOR TO BE RESPONSIBLE FOR ALL ELECTRICAL GROUNDING AND BRACING REQUIREMENTS FOR EQUIPMENT.</div> <div>13. THE COMPLETE INSTALLATION, INCLUDING THE NEUTRAL CONDUCTOR, METAL LIC CONDUIT AND RACEWAYS, BOXES, CABINETS AND EQUIPMENT, SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH ALL CODE REQUIREMENTS, WHETHER OR NOT SUCH CONNECTIONS ARE SPECIFICALLY SHOWN AND/OR SPECIFIED.</div> <div>14. EACH OUTLET SHALL BE TESTED AND BE PLACED IN WORKING ORDER BEFORE THE INSTALLATION SHALL BE CONSIDERED COMPLETE. ALL PARTS OF THE ELECTRICAL SYSTEM SHALL BE GUARANTEED TO PERFORM THE REQUIRED FUNCTION IN ACCORDANCE WITH THE PERFORMANCE REQUIREMENTS WHICH ARE INDICATED OR WHERE SUCH PARTICULAR REQUIREMENTS ARE NOT STATED, THEY SHALL PERFORM IN ACCORDANCE WITH THE PREVAILING RECOGNIZED TRADE STANDARDS OF PERFORMANCE. DURING THE PERIOD OF ONE YEAR REPAIRS OR REPLACEMENTS NECESSARY TO ACCOMPLISH THE REQUIRED PERFORMANCE.</div> <div>15. IN THE EVENT OF FAILURE OF ANY WORK, EQUIPMENT OR SERVICE DURING THE LIFE OF THE GUARANTEE, CONTRACTOR SHALL REPAIR OR REPLACE THE DEFECTIVE WORK AND SHALL REMOVE, REPLACE OR RESTORE, AT NO COST TO OWNER, ANY PART OF THE STRUCTURE OR BUILDING WHICH MAY BE DAMAGED AS THE DIRECT RESULT OF HIS DEFECTIVE WORK OR MATERIAL.</div>	<div>16. ALL ELECTRICAL EQUIPMENT, FUSES AND CIRCUIT BREAKERS SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT TO WHICH THEY MAY BE SUBJECTED.</div> <div>17. ELECTRICAL CONTRACTOR SHALL SEE THAT ALL CONDUIT, METALLIC RACEWAYS DO NOT MAKE CONTACT WITH PLUMBING LINES AND MECHANICAL DUCTS.</div> <div>18. THE CONTRACTOR SHALL BE LICENSED TO PERFORM THE WORK OUTLINED, TO BE FAMILIAR WITH ALL LOCAL CODES HAVING JURISDICTION AND TO HAVE REVIEWED THE DRAWINGS AND SPECIFICATIONS AND VERIFIED THAT ALL SYSTEMS CONTAINED THEREIN ARE IN COMPLIANCE WITH THOSE CODES HAVING JURISDICTION BY THE ACT OF SUBMITTING A BID. THE CONTRACTOR SHALL BE DEEMED TO HAVE ACCEPTED SUCH CONDITIONS AND RESPONSIBILITY AND TO HAVE MADE ALLOWANCES THEREFORE IN PREPARING HIS FIGURES SO THAT THERE WILL BE NO ADDITIONAL COSTS REQUESTED FOR ANY ADDITIONAL REQUIREMENTS MADE BY THOSE AGENCIES HAVING JURISDICTION.</div> <div>19. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED ON DRAWINGS, AND LISTED BY UNDERWRITERS LABORATORIES.</div> <div>20. SECONDARY WIRES AND CABLES SHALL BE SINGLE CONDUCTOR, RATED 600 VOLTS, TYPE THHN/THWN INSULATION, COLOR CODES PER INSPECTION AUTHORITY. ALL CONDUCTORS SHALL BE COPPER, NUMBER 12 AWG MINIMUM.</div> <div>21. ALL WIRES AND CABLES SHALL BE INSTALLED IN ELECTRICAL METALLIC CONDUIT OR SURFACE METAL RACEWAY, UNLESS OTHERWISE NOTED.</div> <div>22. MOUNTING, SUPPORTING, AND ANCHORING OF ALL ELECTRICAL EQUIPMENT SHALL BE IN STRICT COMPLIANCE WITH SEISMIC RESTRAINT REQUIREMENTS OF THE OFFICE OF THE STATE ARCHITECT.</div> <div>23. ALL BRANCH CIRCUITS SHOWN ON DRAWING ARE NEW. PANELBOARD CIRCUIT DIRECTORY SHALL BE LABELED (TYPEWRITTEN) AS PER PANEL SCHEDULE.</div> <div>26. PENETRATION OF FIRE RATED WALLS, CEILING, OR FLOOR SHALL COMPLY WITH 2016 C.B.C. REQUIREMENTS. PENETRATIONS ARE TO BE SEALED PROMPTLY USING APPROVED SEALANT TO INSURE THE INTEGRITY OF THE EXISTING FIRE RATING. FOAM TYPE AEROSOL SEALANT SHALL NOT BE USED.</div> <div>27. ALL JUNCTION BOXES, PULL BOXES, CONDUITS ENTERING OR LEAVING AN AREA OR ROOM OR PASSING THROUGH A WALL OR FLOOR FOR BRANCH CIRCUITS SHALL BE CLEARLY MARKED WITH PERMANENT BLACK INK PEN IDENTIFYING THE BRANCH CIRCUIT CONTAINED.</div> <div>26. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR MODIFICATION TO EXISTING WIRING IN PANELBOARD TO SUIT NEW CIRCUITRY.</div> <div>27. CORING OR CUTTING IN WALLS OR SLABS REQUIRES PRIOR WRITTEN AUTHORIZATION AND SCHEDULING THROUGH THE ARCHITECT AND BUILDING OWNER AND MUST BE PERFORMED AFTER NORMAL BUILDING HOURS.</div> <div>28. ALL METALLIC RACEWAYS, INCLUDING THE EXISTING, SHALL BE SECURELY FASTENED IN PLACE WITH APPROVED HANGERS NOT MORE THAN 10 FEET APART AND WITHIN 3 FEET OF EACH OUTLET BOX, JUNCTION BOX, DEVICE BOX, CABINET, CONDUIT BODY, OR OTHER RACEWAY TERMINATIONS.</div> <div>29. SUBMITTALS: CATALOG CUTS SHALL BE SUBMITTED FOR ALL MATERIALS AND EQUIPMENT. SUBMIT MINIMUM 3 COPIES FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.</div> <div>30. ELECTRICAL CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO THE OWNER AND ARCHITECT ON COMPLETION OF THE JOB.</div> <div>31. DRAWINGS DO NOT NECESSARILY SHOW EVERY PULL BOX REQUIRED. ADDITIONAL BOXES MAY BE ADDED WHEN DESIRABLE TO SAVE LABOR AND AVOID DIFFICULTIES; AND WHEN CODE REQUIREMENTS LIMIT THE NUMBER OF BENDS BETWEEN BOXES. ADDITIONAL BOXES SHALL BE PROVIDED WITHOUT ADDED COST TO THE OWNER. BOXES SHALL BE SIZED ACCORDING TO CODE AND SHALL BE UNDERWRITER'S LABORATORIES LISTED. BOXES SHALL BE ACCESSIBLE AT THE TIME OF COMPLETION AND IN FINISHED AREAS SHALL BE LOCATED ONLY AFTER APPROVAL OF ARCHITECT DUE TO APPEARANCE CONSIDERATIONS.</div> <div>32. ALL RECEPTACLE, LIGHT SWITCH, DISCONNECT SWITCH SHALL BE LABELED WITH CIRCUIT NUMBER AND PANEL NAME. LABEL SHALL BE WHITE BACKGROUND WITH BLACK LETTERING</div> <div>33. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL COMPLETE/SIGNED CALIFORNIA ENERGY COMMISSION ACCEPTANCE FORMS "CEC-NRCA" AND INSTALLATION FORMS "CEC-NRCAI" ASSOCIATED WITH ALL LIGHTING AND POWER DESIGN IN THESE DESIGN DRAWINGS, AND SHALL INCLUDE ALL FEE ASSOCIATED WITH THE COMPLETION OF THESE FORMS IN THE BID.</div>	<div>AC. ABOVE COUNTER</div> <div>AFF ABOVE FINISHED FLOOR</div> <div>TEL TELEPHONE</div> <div>C CONDUIT</div> <div>TYP TYPICAL</div> <div>C.O. CONDUIT ONLY</div> <div>U.O.N. UNLESS OTHERWISE NOTED</div> <div>C.BT CIRCUIT BREAKER</div> <div>CK CIRCUIT</div> <div>DWG DRAWING</div> <div>ELEC ELECTRICAL</div> <div>ELR END OF LINE REGISTER</div> <div>EM EMERGENCY</div> <div>GB GARBAGE DISPOSAL</div> <div>GFI GROUND FAULT INTERRUPTER</div> <div>I.G. ISOLATED GROUND</div> <div>LCP LIGHTING CONTROL PANEL.</div> <div>N.I.C. NOT IN CONTRACT</div> <div>OFCI OWNER FURNISH, CONTRACTOR INSTALL</div> <div>PNL PANELBOARD</div> <div>REF REFRIGERATOR</div> <div>SAD SEE ARCHITECTURAL DRAWINGS</div> <div>SMD SEE MECHANICAL DRAWINGS</div> <div>TBD TO BE DETERMINED</div> <div>WP WEATHER PROOF</div> <div>(R) RELOCATED</div> <div>(N) NEW</div> <div>(E) EXISTING TO REMAIN, U.O.N.</div> <div>34. SOLANO COMMUNITY COLLEGE DISTRICT DESIGN STANDARD SHALL BE FOLLOW AND TAKE PRECEDENT OVER ELECTRICAL NOTES/SPECS. ON THESE PLAN, APPLICABLE SECTIONS ARE, BUT NOT LIMITED TO THE FOLLOWING; 26 00 00 – BASIC ELECTRICAL SYSTEMS 26 05 19 – WIRES CABLES AND CONNECTORS 26 05 26 – GROUNDING 26 05 33 – RACEWAYS 26 05 34 – BOXES 26 05 48 – SUPPORTING DEVICES 26 05 53 – ELECTRICAL IDENTIFICATION 26 08 05 – ELECTRICAL ACCEPTANCE TESTING 26 22 00 – DRY-TYPE TRANSFORMERS 26 24 00 – SWITCHBOARDS & DISTRIBUTION PANELS 26 27 26 – WIRING DEVICES 26 28 00 – OVERCURRENT PROTECTIVE DEVICES 26 28 19 – CIRCUIT & MOTOR DISCONNECTS</div> <div>35. ALL ELECTRICAL COMPONENT SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.</div>	<div>E0.10 GENERAL NOTES, ABBREVIATIONS AND LEGEND</div> <div>E0.11 ELECTRICAL SPECIFICATIONS</div> <div>E0.30 ENERGY COMPLIANCE FORMS</div> <div>E0.40 ENERGY COMPLIANCE FORMS</div> <div>E0.50 ENERGY COMPLIANCE FORMS</div> <div>E0.60 ENERGY COMPLIANCE FORMS</div> <div>E1.00 POWER PLAN – GROUND FLOOR</div> <div>E1.01 POWER PLAN – ROOF</div> <div>E2.00 LIGHTING PLAN</div> <div>E3.00 ELECTRICAL WIRING DIAGRAMS</div>	<div>LEGEND</div> <div><div></div><div>BUILDING STANDARD UAD / DUPLEX RECEPTACLE AT 18" AFF TO CENTER OF BOX, U.O.N LEVITON T5825-W, 20A, 125V</div></div> <div><div></div><div>SPLIT-WIRED DUPLEX RECEPTACLE</div></div> <div><div></div><div>208 VOLT RECEPTACLE</div></div> <div><div></div><div>240 VOLT RECEPTACLE</div></div> <div><div></div><div>GFI</div><div>GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE AT 18" AFF TO CENTER OF BOX.</div></div> <div><div></div><div>D.</div><div>RECEPTACLE ON DEDICATED CIRCUIT AT 18" AFF TO CENTER OF BOX, U.O.N.</div></div> <div><div></div><div>CEILING MOUNTED RECEPTACLE.</div></div> <div><div></div><div>FLOOR MOUNTED RECEPTACLE.</div></div> <div><div></div><div>DIMMING SWITCH AT 48" AFF TO TOP OF BOX</div></div> <div><div></div><div>\$x</div><div>LIGHT SWITCH AND SWITCH LEG IDENTIFICATION AT 48" AFF TO TOP OF BOX</div></div> <div><div></div><div>\$</div><div>BUILDING STANDARD HORSEPOWER RATED SWITCH. LEVITON 1221-2W, 20A, 120/277V AT 48" AFF TO TOP OF BOX</div></div> <div><div></div><div>DATA / VOICE OUTLET BOX AT 18" AFF TO CENTER OF BOX.</div></div> <div><div></div><div>FLOOR MOUNTED DATA / VOICE OUTLET BOX</div></div> <div><div></div><div>LIGHTING CONTROL PANEL</div></div> <div><div></div><div>SURFACE / FLUSH MTD. PANELBOARD.</div></div> <div><div></div><div>HJ / CJ</div><div>WALL MOUNTED / CEILING MOUNTED JUNCTION BOX.</div></div> <div><div></div><div>BUILDING STANDARD CEILING/WALL MOUNTED STROBE HORN.</div></div> <div><div></div><div>LH</div><div>BUILDING STANDARD STROBE.</div></div> <div><div></div><div>EM</div><div>CEILING MOUNTED EXIT LIGHT</div></div> <div><div></div><div>EXIT</div><div>EM</div><div>LOW LEVEL WALL MOUNTED EXIT LIGHT</div></div> <div><div></div><div>TELEPHONE CABINET</div></div> <div><div></div><div>E</div><div>EQUIPMENT TAG</div></div> <div><div></div><div>X</div><div>SHEET NOTE TAG.</div></div> <div><div></div><div>EPO</div><div>ENERGEBCY POWER OFF BUTTON WITH COVER</div></div> <div><div></div><div>ED</div><div>EMON DMON WATT METER</div></div> <div><div></div><div>HD</div><div>CEILING HEAT DETECTOR</div></div> <div><div></div><div>EMERGENCY LIGHT WITH BATTERY BACK UP</div></div>	

OWNER:

Plano Community College District
1000 North Village Parkway
Frisco, CA 95688

ARCHITECT:
CA ARCHITECTS
475 Gate Five Road, Suite 107
Sausalito, CA 94965
415.331.7655
415.331.7656

PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM

STAMP



SHEET LEGEND

ISSUE/REVISION:	
NO:	DATE: DESCRIPTION:
04/25/2017	ISSUE FOR DD 100%
06/06/2017	ISSUE FOR CD 50%
06/30/2017	ISSUE FOR CD 60%
07/20/2017	ISSUE FOR CD 100%
10/18/2017	DSA RESUBMIT

KEY PLAN

FILE: 48-C1

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

02-116082

AC JCC FLS GBC ss PVL

DATE: 10/31/2017

SCALE:	NO SCALE
DATE:	
PROJECT NO:	
PERMIT APPLICATION NO.:	

GENERAL NOTES, ABBREV. & LEGEND

E0.10

OSA RESUB. SET

ELECTRICAL SPECIFICATIONS			
A. GENERAL		B. RACEWAYS AND FITTINGS	
1. THE "GENERAL CONDITIONS" AND "GENERAL REQUIREMENTS" OF THE ARCHITECTURAL SPECIFICATIONS GOVERN WORK UNDER ELECTRICAL.		1. METALLIC CONDUIT INCORPORATED IN ELECTRICAL WORK SHALL COMPLY WITH ALL CODES AND AMERICAN STANDARDS ASSOCIATION C80-1-1958 (NEMA-110) AND C80-3-1958 (NEMA-112).	
2. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES TO CONSTRUCT AND INSTALL COMPLETE NEW ELECTRICAL SYSTEMS AS DESCRIBED HEREIN AND SHOWN ON THE DRAWINGS.		2. RIGID CONDUIT SHALL BE OF THREADED TYPE, HOT DIP GALVANIZED STEEL OR ALUMINUM. ELECTRICAL METALLIC TUBING SHALL BE GALVANIZED STEEL AND MAXIMUM SIZE SHALL BE 2 INCHES. ALL STEEL CONDUIT SHALL BE PROTECTED BY AN OVERALL ZINC COATING. FLEXIBLE CONDUIT SHALL BE STEEL; MINIMUM 1/2 INCH SIZE, FITTINGS SHALL BE OF SCREWED WEDGE TYPE. NEOPRENE JACKETED LIQUIDTIGHT FLEXIBLE CONDUIT SHALL BE USED IN LOCATIONS EXPOSED TO WEATHER OR DAMPNESS AND FOR ALL MOTOR FINAL CONNECTIONS, WITH SUITABLE WATERPROOF FITTINGS.	
3. ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON DRAWINGS BUT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, OR ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.		3. EMT CONNECTORS AND COUPLINGS SHALL BE STEEL SET SCREW OR COMPRESSION TYPE; TYPE, CONDUIT TERMINATIONS 1-1/4 INCH OR LARGER SHALL BE EQUIPPED WITH APPROVED INSULATED BUSHINGS. CRIMP-ON TYPE IS NOT ACCEPTABLE. CONNECTORS IN PLENUMS SHALL BE COMPRESSION	
4. DESIGN DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, ELBOWS OR OTHER SPECIFIC ELEMENTS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF WORK. SUCH WORK SHALL BE VERIFIED AT THE JOB SITE AND THE REQUIRED ACCESSORIES AND ROUTING SHALL BE PROVIDED TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER. THE RIGHT IS RESERVED TO MAKE ANY REASONABLE CHANGES IN OUTLET, LIGHTING OR EQUIPMENT LOCATIONS, PRIOR TO ROUGH-IN WITHOUT ANY ADDITIONAL COST TO THE OWNER. "REASONABLE CHANGE" BE INTERPRETED AS INCLUDING ANY CHANGES OF UP TO SIX FEET FROM THE LOCATIONS INDICATED ON THE DRAWINGS.		4. RIGID STEEL CONDUIT SHALL BE USED FOR RUNS LARGER THAN 2".	
5. CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL TAXES, FEES AND OTHER COSTS IN CONNECTION WITH THIS WORK. HE SHALL OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK AND DELIVER SAME TO THE OWNER BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.		5. ELECTRICAL METALLIC TUBING MAY BE USED ONLY IN INTERIOR, DRY APPLICATIONS NOT SUBJECT TO PHYSICAL DAMAGE.	
6. WORK AND MATERIALS SHALL CONFORM TO THE LATEST RULES OF THE NATIONAL BOARD OF FIRE UNDERWRITERS' CODE, REGULATIONS OF THE STATE FIRE MARSHAL, AND WITH APPLICABLE LOCAL AND STATE CODES. NOTHING IN THESE SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT APPLICABLE CODES.		6. FLEXIBLE CONDUIT SHALL BE USED FOR FINAL CONNECTIONS TO ALL VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS) AND RECESSED LIGHT FIXTURES. CONNECTIONS TO ROTATING EQUIPMENT SHALL BE WITH LIQUIDTIGHT FLEXIBLE CONDUIT WITH A MINIMUM 270 DEGREE BEND.	
7. THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA BUILDING CODE PLUS ANY APPLICABLE LOCAL AMENDMENTS TO THE FOREGOING CODES, AND ELECTRICAL REQUIREMENTS ESTABLISHED BY THE STATE AND LOCAL FIRE MARSHALS ARE HEREBY MADE PART OF THESE SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY PART OF THE WORK HE BELIEVES TO BE IN CONFLICT WITH THESE CODES AND REGULATIONS.		7. CONCEAL ALL CONDUIT WHEREVER POSSIBLE EXCEPT IN MECHANICAL OR ELECTRICAL EQUIPMENT AREAS. EXPOSED CONDUIT SHALL BE RUN PARALLEL WITH OR AT RIGHT ANGLES TO THE LINES OF THE BUILDING. CONDUIT CONCEALED IN CEILING SPACES SHALL BE RUN PARALLEL TO BUILDINGS LINES WHERE POSSIBLE.	
8. ELECTRICAL DRAWINGS ARE ARRANGED FOR CONVENIENCE ONLY AND DO NOT NECESSARILY DETERMINE WHICH TRADE PERFORMS THE VARIOUS PORTIONS OF THE WORK. THE CONTRACTOR SHALL PERFORM ALL NECESSARY WORK TO JOIN WITH OR RECEIVE WORK OF OTHER TRADES. WORK SHALL BE COORDINATED WITH ALL TRADES TO PROVIDE ADEQUATE CLEARANCE AND ELIMINATE CONFLICTS.		8. CONDUIT SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE; SUPPORTS FROM AIR CONDITIONING DUCTS OR PIPING SHALL NOT BE PERMITTED. SECURE ALL CONDUITS TO OUTLET BOXES, JUNCTION BOXES OR CABINETS WITH LOCKNUTS OUTSIDE AND LOCKNUTS WITH BUSHINGS INSIDE. REAM CONDUITS AFTER THREADS ARE CUT, ENDS SHALL BE CUT SQUARE AND SHALL BUTT SOLIDLY INTO COUPLINGS AND CONNECTORS.	
9. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO SUBMITTING HIS PROPOSAL AND FAMILIARIZE HIMSELF WITH EXISTING SITE CONDITIONS. INFORMATION ON DRAWINGS RELATIVE TO EXISTING SITE CONDITIONS IS APPROXIMATE. DURING THE PROGRESS OF CONSTRUCTION, DEVIATIONS FOUND NECESSARY TO CONFORM TO ACTUAL CONDITIONS SHALL BE REPORTED TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING SYSTEMS.		9. CONDUITS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FROM OUTLETS TO CABINETS, JUNCTION OR PULL BOXES, AND SHALL ENTER AND BE SECURED AT ALL BOXES SO THAT EACH SYSTEM SHALL BE ELECTRICALLY CONTINUOUS THROUGHOUT.	
10. SHOP DRAWINGS SHALL BE SUBMITTED TO OWNER ON ALL MAJOR PIECES OF ELECTRICAL EQUIPMENT, INCLUDING LIGHT FIXTURES, STARTERS, CIRCUIT BREAKERS AND PANELBOARDS AND DEVICES. EACH ITEM OF THE SHOP DRAWINGS SHALL BE PROPERLY LABELED, INDICATING THE INTENDED SERVICE OF THE MATERIAL, THE PROJECT NAME AND THE ELECTRICAL CONTRACTOR'S NAME. WHEN AN ERROR IN THE SHOP DRAWINGS IS NOT DETECTED IN THE REVIEW, THIS DOES NOT GRANT THE CONTRACTOR PERMISSION TO PROCEED IN ERROR. REGARDLESS OF ANY INFORMATION CONTAINED IN THE SHOP DRAWINGS, THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS MUST BE FOLLOWED, AND ARE NOT WAIVED OR SUPERSEDED IN ANY WAY BY THE SHOP DRAWING REVIEW.		10. A NYLON PULL CORD SHALL BE LEFT IN ALL CONDUITS IN WHICH PERMANENT WIRING IS NOT INSTALLED.	
11. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN A SET OF DRAWINGS AT THE JOB SITE FOR THE EXCLUSIVE PURPOSE OF MAINTAINING A RECORD OF ALL WORK INSTALLED AND TO SHOW ANY DEVIATIONS FROM THE WORK INDICATED ON THE DRAWINGS. AT THE COMPLETION OF THE PROJECT, ONE SET OF REPRODUCIBLE DRAWINGS, SHOWING ALL AS-BUILT CONDITIONS, SHALL BE DELIVERED TO THE OWNER FOR ACCEPTANCE PRIOR TO FINAL PAYMENT.		11. METAL-CLAD CABLE (MC) MAY BE USED ONLY IN INTERIOR, CONCEALED DRY APPLICATION WITHIN BUILDING AND FOR BRANCH CIRCUITS ONLY.	
12. THE RIGHT IS RESERVED TO INSPECT AND TEST ANY PORTION OF THE EQUIPMENT AND/OR MATERIALS DURING THE PROGRESS OF ITS ERECTION. THE CONTRACTOR SHALL TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY FIXTURES OR EQUIPMENT. A FULL-SCALE WORKING TEST WITH ALL LIGHTS, EQUIPMENT, APPLIANCES, ETC., IN OPERATION SHALL BE MADE, IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE, AND THE ELECTRICAL SYSTEMS PROVEN SATISFACTORY FOR OPERATION AND FREE FROM DEFECTS. ANY DEFECTS FOUND SHALL BE REMEDIED IMMEDIATELY BY THE CONTRACTOR.		12. ANY ELECTRICAL RACEWAY PENETRATION THROUGH FIRE RATED WALLS SHALL SHALL BE SEAL WITH APPROVED FIRE RESISTANCE SEALANT.	
13. ON COMPLETION OF THE ENTIRE INSTALLATION, THE APPROVAL OF THE OWNER SHALL BE SECURED, COVERING THE INSTALLATION THROUGHOUT. THE CONTRACTOR SHALL OBTAIN AND PAY FOR A CERTIFICATE OF APPROVAL FROM THE PUBLIC AUTHORITIES HAVING JURISDICTION. A FINAL INSPECTION CERTIFICATE SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL PAYMENT. ANY AND ALL COST INCURRED FOR FEES SHALL BE PAID FOR BY THE CONTRACTOR.		C. WIRE AND CABLE	
14. COORDINATE ALL OUTAGES AND CUT-OVERS WITH THE OWNER. POWER SHALL NOT BE INTERRUPTED TO THE OCCUPIED PORTIONS OF THE BUILDING DURING BUSINESS HOURS, EXCEPT BY SPECIAL PERMISSION OF THE OWNER.		1. CONDUCTORS SHALL BE COPPER AND RATED AT NOT LESS THAN 600 VOLTS, EXCEPT FOR SIGNAL CABLE SPECIFICALLY RATED LOWER. FOR POWER AND LIGHTING, MINIMUM SIZE SHALL BE NUMBER 12 AWG; FOR SIGNAL CABLES NUMBER AND SIZE AS INDICATED. ALL WIRE NUMBER 8 AWG OR LARGER SHALL BE STRANDED.	
15. PROVIDE UNDERWRITERS' LABORATORIES, INC. OR ETL TESTING LABORATORIES, INC. LISTED AND LABELED EQUIPMENT FOR ALL ITEMS FOR WHICH U.L. CARRIES A LISTING OR LABELING, UNLESS ITEMS ARE SPECIFICALLY EXEMPTED.		2. FIXTURE EXTENSIONS SHALL BE NUMBER 12 AWG EXCEPT THOSE INDIVIDUAL FIXTURE EXTENSIONS THAT DO NOT EXCEED 4 FEET IN LENGTH MAY BE NUMBER 14 AWG. FIXTURE EXTENSIONS SHALL HAVE TEMPERATURE RATING TO CONFORM TO INDIVIDUAL FIXTURE REQUIREMENTS.	
		3. WIRING SHALL BE TYPE THWN OR THHN, MINIMUM 90 DEGREES C. INSULATION, FEEDERS SIZED NUMBER 2 AWG AND ABOVE SHALL BE TYPE THW, 90 DEGREES C. INSULATION, OR THHN (90ø RATED), AND SIZED PER TABLE 310.16 OF THE NEC & CEC.	
		4. SPECIAL PRE-MANUFACTURED CABLING SYSTEMS, SUCH AS MODULAR WIRING AND MC TYPE CABLE MAY BE USED IN THIS FACILITY EXCEPT FOR CABLING SERVING FIRE ALARM AND LIFE SAFETY SYSTEMS OR FUNCTIONS.	
		5. ALL WIRING SHALL BE COLOR CODED AS FOLLOWS: 120/208 VOLT SYSTEM PHASE "A" - BLACK; PHASE "B" - RED; PHASE "C" - BLUE; NEUTRAL-WHITE; GROUNDING CONDUCTOR - GREEN; ISOLATE GROUND - GREEN WITH YELLOW TRACE.	
		6. ALL WIRE AND CABLE SHALL BE INSTALLED IN RACEWAY EXCEPT AS SPECIFICALLY PERMITTED OTHERWISE. VERTICAL RUNS OF CABLE SHALL BE SUPPORTED AT JUNCTION AND PULL BOXES PER CODE REQUIREMENTS.	
		7. AT EACH FIXTURE OUTLET A LOOP OR END OF WIRE NOT LESS THAN 8" LONG SHALL BE LEFT FOR CONNECTION TO FIXTURES.	
		8. TELEPHONE/CABLES WILL BE FURNISHED AND INSTALLED TO EACH OUTLET SHOWN ON DRAWINGS BY ELECTRICAL CONTRACTOR.	
		9. TELEVISION CABLES WILL BE FURNISHED AND INSTALLED TO EACH OUTLET SHOWN ON DRAWINGS BY ELECTRICAL CONTRACTOR, COORDINATE WITH CABLE TV COMPANY FOR CABLE TERMINATIONS AND RECUREMENTS.	
		D. SPLICES AND INSULATION	
		1. WIRE NUT CONNECTORS SHALL BE MANUFACTURED BY THOMAS & BETTS, 3M, IDEAL OR APPROVED EQUAL. COMPRESSION TYPE WIRE CONNECTORS SHALL BE MANUFACTURED BY THOMAS & BETTS, 3M OR APPROVED EQUAL. MECHANICAL SCREWED COMPRESSION TYPE CONNECTORS SHALL BE MANUFACTURED BY BURNDY, ILSCO OR APPROVED EQUAL.	
		2. JOINTS IN BRANCH CIRCUITS SHALL OCCUR ONLY WHERE SUCH CIRCUITS DIVIDE AND SHALL CONSIST OF ONE THROUGH CIRCUIT TO WHICH SHALL BE SPLICED THE BRANCH FROM THE CIRCUIT. NO SPLICES SHALL BE MADE IN CONDUCTORS EXCEPT AT OUTLET BOXES, JUNCTION BOXES AND SPLICE BOXES.	
		3. ALL JOINTS FOR POWER WIRING NO. 10 AWG OR SMALLER SHALL BE MADE WITH WIRE NUTS OR COMPRESSION TYPE CONNECTORS. JOINTS IN SIGNAL CABLES SHALL BE MADE ONLY WITH COMPRESSION TYPE CONNECTORS.	
		4. ALL JOINTS OR SPLICES FOR NO. 8 AWG OR LARGER SHALL BE MADE WITH A MECHANICAL COMPRESSION CONNECTOR. AFTER THE CONDUCTORS HAVE BEEN MADE MECHANICALLY AND ELECTRICALLY SECURE, THE ENTIRE JOINT OR SPLICE SHALL BE COVERED WITH TAPE TO MAKE THE INSULATION OF THE JOINT OR SPLICE EQUAL TO THE INSULATION OF THE CONDUCTORS.	
		E. WIRING DEVICES AND OUTLET BOXES	
		1. WIRING DEVICES SHALL BE LEVITON, DECORA SERIES OR APPROVED EQUAL. COLOR TO BE WHITE UNLESS OTHERWISE NOTED. WALL RECEPTACLE OUTLETS SHALL BE NEMA 5-20R (UNLESS OTHERWISE NOTED).	
		2. OUTLET BOXES FOR CONCEALED WORK SHALL BE ONE PIECE, PRESSED STEEL, KNOCKOUT TYPE WITH ZINC OR CADMIUM COATING. BOXES SHALL NOT BE SMALLER THAN 4 INCHES SQUARE NOMINAL SIZE EXCEPT WHERE LARGER SIZES ARE INDICATED. PROVIDE EXTENSION RINGS, PLASTER RINGS AND COVERS NECESSARY FOR FLUSH FINISH.	
		3. WALL TELEPHONE OUTLETS SHALL BE PRESSED STEEL SECTIONAL SWITCH BOXES.	
		4. MOUNT DEVICES IN APPROVED OUTLET BOXES WITH MOUNTING HEIGHTS INDICATED TO CENTER OF DEVICE. WHERE MORE THAN ONE WALL SWITCH IS INDICATED AT ONE LOCATION, SWITCHES SHALL BE GANGED UNDER A COMMON WALL PLATE. MORE THAN 6 SWITCHES AT ONE LOCATION SHALL BE GANGED IN TWO ROWS, ONE ABOVE THE OTHER.	
		5. BEFORE LOCATING OUTLET BOXES, CHECK ALL ARCHITECTURAL DRAWINGS FOR TYPE OF CONSTRUCTION AND TO MAKE SURE THAT THERE ARE NO CONFLICTS WITH OTHER EQUIPMENT.	
		6. BAR HANGERS SHALL BE USED TO SUPPORT OUTLET BOXES IN STUD OR FURRED PARTITIONS AND CEILINGS. SCREWS SHALL BE USED WITH EXPANSION SHIELDS FOR FASTENING TO CONCRETE OR MASONRY. PROVIDE APPROVED KNOCKOUT SEALS ON UNUSED OPEN KNOCKOUT HOLES.	
		F. PANELBOARDS LOADCENTERS AND CIRCUIT BREAKERS	
		1. PANELBOARDS LOADCENTERS SHALL BE SEQUENCE PHASED,FACTORY ASSEMBLED,WITH COPPER BUS, SIZED AS INDICATED ON DRAWINGS. PANELBOARDS SHALL BE CUTLER - HAMMER, SQUARE D, GE OR APPROVED EQUAL.	
		2. CABINET SHALL BE MINIMUM 20 INCHES WIDE UNLESS OTHERWISE NOTED. FRONT TRIM SHALL BE DEAD FRONT WITH HINGED DOOR, FLUSHED LOCKS AND CONTAIN A TYPEWRITTEN DIRECTORY BEHIND CLEAR PLASTIC IN A METAL FRAME.	
		3. PANELBOARDS OVER 22 INCHES WIDE SHALL HAVE DOOR-IN-DOOR CONSTRUCTION, FOR EASY ACCESS TO WIRING, AND THREE-POINT LOCKS ON BOTH DOORS. CABINETS, DOORS AND TRIMS SHALL BE FABRICATED FROM CODE GAUGE STEEL, WITH DOORS AND TRIMS PRIMED FOR FIELD PAINTING TO MATCH SURROUNDING WALL FINISHES.	
		4. MOLDED CASE CIRCUIT BREAKERS SHALL BE AS MANUFACTURED BY CUTLER-HAMMER, SQUARE D, OR G.E. WITH FRAME, TRIP AND SHORT CIRCUIT RATING AS INDICATED ON THE DRAWINGS.	
		5. CIRCUIT BREAKERS SHALL BE OF THE BOLT-ON TYPE MOUNTING. MULTI-POLE BREAKERS SHALL BE SINGLE DEVICES, IN ONE ENCLOSURE, WITH ONE OPERATING HANDLE AND COMMON TRIP.	
		6. MINIMUM RMS SYMMETRICAL RATING OF CIRCUIT BREAKERS SHALL MATCH EXISTING	
		7. PANELBOARDS SHALL BE MOUNTED PLUMB AND TRIM ADJUSTED TO BE VERTICAL AND COVERING ALL OPENINGS. TOP OF PANELBOARD SHALL BE MAXIMUM 6"-6" ABOVE FINISHED FLOOR. REMOVE ALL WIRING FROM PANEL BOARDS WHERE CIRCUITS ARE DELETED OR ABANDONED.	
		8. CIRCUIT BREAKER TERMINATIONS SHALL NOT BE DOUBLE LUGGED TO TAP OFF FOR ADDITIONAL CIRCUIT RUNS. ALL BRANCH CIRCUIT TAPS SHALL BE MADE OUTSIDE OF PANELS IN APPROPRIATE JUNCTION BOXES.	
		G. MOTOR DISCONNECT	
		1. DISCONNECTING DEVICES SHALL BE PROVIDED FOR EACH MOTOR. SWITCHES SHALL BE MOTOR-RATED, EXCEPT WHERE OTHERWISE INDICATED.	
		2. DISCONNECT SWITCHES FOR MOTORS RATED 1/2 HP OR LARGER SHALL BE UNFUSED (UNLESS OTHERWISE INDICATED), THREE POLE, 208 VOLTS IN NEMA GENERAL PURPOSE OR WEATHERPROOF ENCLOSURES.	
		3. SWITCHES FOR MOTORS LESS THAN 1/2 HP SHALL BE TOGGLE TYPE, QUICK MAKE AND BREAK, RATED AT 120 VOLTS, WITH THE NUMBER OF POLES REQUIRED, IN SURFACE MOUNT TYPE, NEMA 1 ENCLOSURES.	
		H. GROUNDING	
		1. PROVIDE ALL GROUNDING FOR ELECTRICAL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH ALL APPLICABLE CODES. INCLUDE, CONDUIT SYSTEM, MOTORS, SECONDARY NEUTRAL WIRE AND MISCELLANEOUS GROUNDS REQUIRED. GROUNDING LUGS, WHERE PROVIDED AS STANDARD MANUFACTURER'S ITEMS ON EQUIPMENT FURNISHED MAY BE USED. THE GROUNDING SYSTEM SHALL COMPLY WITH ARTICLE 250 OF THE NEC AND CEC	
		2. PROVIDE SEPARATE GREEN INSULATED EQUIPMENT GROUND CONDUCTOR IN ALL FLEXIBLE ELECTRICAL RACEWAYS. EFFECTIVELY GROUND ALL FIXTURES, PANELS, CONTROLS, MOTORS, DISCONNECT SWITCHES, AND NONCURRENT CARRYING METALLIC ENCLOSURES. USE BONDING JUMPERS, GROUNDING BUSHINGS, LUGS, BUSES, ETC., FOR THIS PURPOSE. PROVIDE GROUNDING BUSHINGS ON ALL FEEDER CONDUIT ENTRANCES TO PANELS AND EQUIPMENT ENCLOSURES AND BOND BUSHINGS TO ENCLOSURES WITH MINIMUM NO. 10 AWG CONDUCTOR. CONNECT THE EQUIPMENT GROUND TO THE BUILDING SYSTEM GROUND. USE THE SAME SIZE EQUIPMENT GROUND CONDUCTORS AS PHASE CONDUCTORS, UP THROUGH NO. 10 AWG. USE N.E.C. TABLE 250-95 FOR CONDUCTOR SIZE WITH PHASE CONDUCTORS NO. 8 AND LARGER, IF NOT SHOWN ON THE DRAWINGS.	
		3. RECEPTACLES: PERMANENTLY CONNECT THE GROUND TERMINAL ON EACH RECEPTACLE TO THE GREEN GROUND CONDUCTOR OR GROUNDED METAL RACEWAY SYSTEM WITH A GROUND WIRE.	
		4. MOTORS: CONNECT THE GROUND CONDUCTOR TO THE CONDUIT WITH AN APPROVED GROUNDING BUSHING, AND TO THE METAL FRAME WITH A BOLTED SOLDERLESS LUG. BOLTS, SCREWS AND WASHERS SHALL BE BRONZE OR CADMIUM PLATED STEEL.	
		5. GROUND CONDUCTORS SHALL BE 600 VOLT - NO. 12 AWG STRANDED COPPER MINIMUM, WITH GREEN INSULATION; AND SHALL BE CONTINUOUS FROM TERMINAL TO TERMINAL WITHOUT SPLICE.	
		I. JUNCTION AND PULL BOXES	
		1. DRAWINGS DO NOT NECESSARILY SHOW EVERY PULL BOX REQUIRED. ADDITIONAL BOXES MAY BE ADDED WHEN DESIRABLE TO SAVE LABOR AND AVOID DIFFICULTIES; AND WHEN CODE REQUIREMENTS LIMIT THE NUMBER OF BENDS BETWEEN BOXES. ADDITIONAL BOXES SHALL BE PROVIDED WITHOUT ADDED COST TO THE OWNER. BOXES SHALL BE SIZED ACCORDING TO CODE AND SHALL BE UNDERWRITERS' LABORATORIES LISTED. BOXES SHALL BE ACCESSIBLE AT THE TIME OF COMPLETION AND IN FINISHED AREAS SHALL BE LOCATED ONLY AFTER APPROVAL OF ARCHITECT DUE TO APPEARANCE CONSIDERATIONS.	
		2. ALL JUNCTION BOXES IN CEILING SPACES SHALL BE MARKED WITH BLACK MARKING PEN AS TO THE PANEL AND CIRCUITS PASSING THROUGH THE BOX.	
		J. LABELS	
		1. WHITE CORE BLACK ENGRAVED PLASTIC NAMEPLATES SHALL BE ATTACHED TO ALL EQUIPMENT (PANELBOARDS, STARTERS, ETC.) INDICATING EQUIPMENT, DESIGNATION AND VOLTAGE	
		2. ALL RECEPTACLES, LIGHT SWITCHES, DISCONNECT SWITCHES SHALL BE LABEL WITH PANEL NAME AND CIRCUIT NUMBER. LABELS SHALL BE WHITE BACKGROUND ADHESIVE LABEL WITH BLACK LETTERING	
		K. DEMOLITION	
		1. CONTRACTOR SHALL EXAMINE THE WORK SITE AND COMPARE IT WITH THE DRAWINGS AS THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. INSPECT EXISTING CONDITIONS TO OBTAIN A COMPLETE UNDERSTANDING OF HOW SYSTEMS ARE CONFIGURED, WHERE SYSTEMS CAN BE SAVED, AND WHAT CONSEQUENCES WILL OCCUR AS A RESULT OF DEMOLITION, PRIOR TO COMMENCING ANY DEMOLITION. NO ALLOWANCE SHALL BE SUBSEQUENTLY MADE FOR ANY EXTRA DUE TO FAILURE OR NEGLECT BY THIS SPECIFICATION TO MAKE SUCH EXAMINATION.	
		2. WORK INCLUDED: WORK COMPRISES DEMOLITION OF ELECTRICAL SYSTEMS AS REQUIRED FOR NEW WORK. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, APPARATUS, TOOLS, EQUIPMENT, TRANSPORTATION, TEMPORARY CONSTRUCTION AND SPECIAL SERVICES AS REQUIRED TO MAKE A COMPLETE DEMOLITION OF ELECTRICAL SYSTEM AS REQUIRE.	
		3. ITEMS REMOVED AS RESULT OF THE DEMOLITION WORK SHALL BE CONSIDERED AS DEBRIS AND SHALL BE DISPOSED OFF PROPERTY UNLESS OTHERWISE NOTED.	

OWNER:

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:
CA ARCHITECTS
475 Gate Five Road, Suite 107
Sausalito, CA 94965
T 415.331.7655
F 415.331.7656

PROJECT:
**Vacaville Classroom Building
(Annex) Renovation Project**

CONSULTANT TEAM:

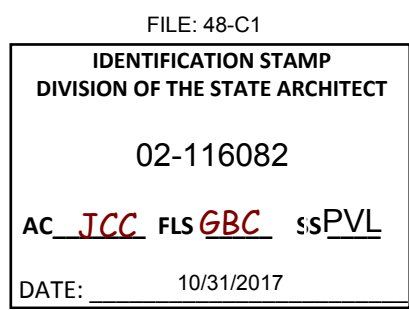
STAMP



SHEET LEGEND:

ISSUE/REVISION:		
NO.	DATE	DESCRIPTION:
04/25/2017		ISSUE FOR DD 100%
06/06/2017		ISSUE FOR CD 50%
06/30/2017		ISSUE FOR CD 60%
07/20/2017		ISSUE FOR CD 100%
10/18/2017		DSA RESUBMIT

KEY PLAN:



SCALE: _____ NO SCALE
DATE: _____
PROJECT NO: _____
PERMIT APPLICATION NO.: _____

ELECTRICAL
SPECIFICATIONS

E0.11

STATE OF CALIFORNIA

Electrical Power Distribution

CEC-NRCC-ELC-01-E (Revised 01/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ELC-01-E

Electrical Power Distribution

Page 1 of 4

Project Name: SCC – Vacaville Annex

Date Prepared: 4/14/2017

General Information

Project Address:
2000 NORTH VILLAGE PARKWAY
VACAVILLE, CA 95688

Climate Zone: ZONE 3

Conditioned Floor Area : 6,296 SqFt
Unconditioned Floor Area :

Building Type:
☒ Nonresidential
☐ High-Rise Residential
☐ Hotel/Motel

☒ Schools
☐ Relocatable Public Schools
☒ Conditioned Spaces
☐ Unconditioned Spaces

Phase of Construction:
☐ New Construction
☐ Addition
☒ Alteration

In the table below identify all applicable construction documents that specify the requirements for the scope of responsibility reported by this certificate. Use additional pages as needed to list all construction documents related to compliance of Section 130.5.

Document Number	Document Title/Descriptions (include description information for Table or Schedule if it contains compliance information)	Document Sheet # or Page #	Indicate which subsection of Section 130.5 is related to the document (e.g. 130.5(a) for service electrical metering)

Add Row

Remove Last

A. Service Electrical Metering

Check one of the three boxes below if the electrical power distribution system is in compliance with Section 130.5(a).

☐ For newly installed electrical service in newly constructed buildings, Service Electrical Metering is required according to Section 130.5(a). Fill out Column 1 through 6 of table below.

☐ For new or replacement electrical service equipment in existing buildings, Service Electrical Metering is required according to Section 141.0(b)(2)(i). Fill out Column 1 through 6 of table below.

☒ EXCEPTION to Electrical Service Metering: Service or feeder for which the utility company provides a metering system that indicates instantaneous kW demand and kWh for a utility-defined period. Fill out Column 1, 2 and 6 of table below with the compliance information.

Fill out a separate line for each electrical service that is connected to the building.

Electrical Service Schedule	Electrical Service Rating	Metering Capabilities (check all that are present)				Exception to 130.5 (a)	Field Inspector
01	02	03	04	05	06	07	08
Electrical Service Designation/ Location/Description	kVA	Instantaneous (at the time) kW	Historical peak (kW)	Tracking kWh for a user-definable period	kWh per rate period	Utility metering system	Check that the metering complies
MAIN 200 AMP METER 277/480V, 3P	166 KVA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MAIN 400 AMP METER 277/480V, 3P	288 KVA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Add Row

Remove Last

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January 2016

STATE OF CALIFORNIA

Electrical Power Distribution

CEC-NRCC-ELC-01-E (Revised 01/16)

CALIFORNIA ENERGY COMMISSION

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Electrical Power Distribution

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Project Name: SCC – Vacaville Annex

Date Prepared: 4/14/2017

C. Voltage Drop

Check all boxes below if the electrical power distribution system is in compliance with Section 130.5(c).

☒ The electrical power distribution system meets the voltage drop requirement of Section 130.5(c). The maximum combined voltage drop on feeder conductors and branch circuit conductors to the farthest connected load or outlet, do not exceed 5%.

☐ Voltage drop calculation documents showing compliance to Section 130.5(c) are submitted as part of the compliance document submittal.

Enforcement Agency

Check that the system complies

☐

☐

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

Check one or more boxes below for applicable requirements of Section 130.5(d) for the electrical power distribution system.

☐ The control is capable of automatically shutting OFF the controlled receptacles when the space is typically unoccupied, either at the receptacle or circuit level. For the automatic time switch control, it incorporates an override control that allows the controlled receptacle to remain ON for no more than 2 hours when an override is initiated and an automatic holiday "shut-OFF" feature that turns OFF all loads for at least 24 hours and then resumes the normally scheduled operation. Countdown timer switches are not be used to comply with the automatic time switch control requirements. The controls meet the requirement of Section 130.5(d)1.

☐ There is at least one controlled receptacle within 6 ft from each uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.

☐ There are installed split wired receptacles with at least one controlled and one uncontrolled receptacle. Where receptacles are installed in modular furniture in open office area, at least one controlled receptacle is installed at each workstation. The receptacles meet the requirement of Section 130.5(d)2.

☐ Permanent and durable marking for controlled receptacles or circuits to differentiate them from uncontrolled receptacles or circuits is provided. The markings meet the requirement of Section 130.5(d)3.

☐ For hotel and motel guest rooms, there are controlled receptacles for at least one-half of the 120-volt receptacles in each guest room. Electric circuits serving controlled receptacles in guestrooms are installed to have captive key controls, occupancy sensing controls, or automatic controls so the power is switched off no longer than 30 minutes after the guest room has been vacated. The receptacles meet the requirement of Section 130.5(d)4.

☐ Receptacles that are only for the following purposes are excepted from Section 130.5(d):

- Receptacles specifically for refrigerators and water dispensers in kitchen areas.
- Receptacles located a minimum of six ft above the floor that are specifically for clocks.
- Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms.
- Receptacles on circuits rated more than 20 amperes.
- Receptacles connected to an uninterruptible power supply (UPS) that are intended to be in continuous use, 24 hours per day/365 days per year, and are marked to differentiate them from other uncontrolled receptacles or circuits.

Field Inspector

Check that the system complies

☐

☐

☐

☐

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

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Electrical Power Distribution

CEC-NRCC-ELC-01-E (Revised 01/16)

CALIFORNIA ENERGY COMMISSION

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Electrical Power Distribution

Page 2 of 4

Project Name: SCC – Vacaville Annex

Date Prepared: 4/14/2017

B. Separation of Electrical Circuits for Electrical Energy Monitoring

N/A

Check all boxes below if the electrical power distribution system is in compliance with Section 130.5(b).

☐ The electrical power distribution system meets the separation of electrical circuits for electrical energy monitoring requirement of Section 130.5(b). The electrical power distribution systems is designed so that measurement devices can monitor the electrical energy usage of load types according to TABLE 130.5-B.

☐ Describe the electrical power distribution system installed and the compliance method chosen in meeting the requirement of Section 130.5(b). Use the space below to include the information. Examples of compliance methods are detailed in Nonresidential Compliance Manual Chapter 8.

Fill out Column 1 thru 3 with the compliance information.

General Information	Electrical Power Distribution System information and Method of compliance	Electrical Service Rating	Enforcement Agency
01	02	03	04
Electrical Service Designation/Location/Description	Describe the electrical power distribution system installed and the compliance method used	kVA	Check that the system complies
			<input type="checkbox"/>

Field Inspector Notes:

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

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STATE OF CALIFORNIA

Electrical Power Distribution

CEC-NRCC-ELC-01-E (Revised 01/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-ELC-01-E

Electrical Power Distribution

Page 4 of 4

Project Name: SCC – Vacaville Annex

Date Prepared: 4/14/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: DENNIS CHEUNG

Documentation Author Signature:

Company: C&N ENGINEERS, INC.

Signature Date: 4/14/2017

Address: 391 SUTTER STREET, SUITE 202

CEA/ HERS Certification Identification (if applicable):

City/State/Zip: SAN FRANCISCO, CA 94108

Phone: 415-982-1828

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: DENNIS CHEUNG

Responsible Designer Signature:

Company: C&N ENGINEERS, INC.

Date Signed: 4/14/2017

Address: 391 SUTTER STREET, SUITE 202

License: E9279

City/State/Zip: SAN FRANCISCO, CA 94108

Phone: 415-982-1828

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

January 2016

STATE OF CALIFORNIA

INDOOR LIGHTING

CEC-NRCC-LTI-01-E (Revised 04/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-01-E

Indoor Lighting

Page 2 of 6

Project Name: SCC - Vacaville Annex

Date Prepared: 4/14/2017

A. General Information

Climate Zone: 3

Conditioned Floor Area: SQ.FT.

Unconditioned Floor Area:

Building Type:
☒ Nonresidential
☐ High-Rise Residential
☐ Hotel/Motel

☒ Schools
☐ Relocatable Public Schools
☒ Conditioned Spaces
☐ Unconditioned Spaces

Phase of Construction:
☐ New Construction
☐ Addition
☒ Alteration

Method of Compliance:
☐ Complete Building
☒ Area Category
☐ Tailored

Project Address:

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTI-03-E	Indoor Lighting Power Allowance
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-04-E	Tailored Method Worksheets
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

STATE OF CALIFORNIA

INDOOR LIGHTING

CEC-NRCC-LTI-01-E (Revised 04/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-01-E

Indoor Lighting

Page 2 of 6

Project Name: SCC - Vacaville Annex

Date Prepared: 4/14/2017

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

Indoor Lighting Power for Conditioned Spaces			Indoor Lighting Power for Unconditioned Spaces		
	Installed Lighting	Watts		Installed Lighting	Watts
01	NRCC-LTI-01-E, Table H, page 5	+	10760	NRCC-LTI-01-E, Table H, page 5	+
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+			
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-		Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-
04	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	=	10760	Adjusted Installed Lighting Power (row 1 minus row 3)	=
	Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)			Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)	
05	Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		15995	Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2	

D. Declaration of Required Certificates of Installation

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/> Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/> Field Inspector

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

OWNER:

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

CA ARCHITECTS
475 Gate Five Road, Suite 107
Sausalito, CA 94965
T 415.331.7655
F 415.331.7656

PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

STAMP

SHEET LEGEND:

ISSUE/REVISION:

NO.	DATE	DESCRIPTION
04/25/2017		ISSUE FOR DD 100%
06/06/2017		ISSUE FOR CD 50%
06/30/2017		ISSUE FOR CD 60%
07/20/2017		ISSUE FOR CD 100%
10/18/2017		DSA RESUBMIT

KEY PLAN:

FILE: 49-C1
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-116082
AC, JCC, FLS, GBC, ssPVL
DATE: 10/31/2017

SCALE:

DATE:

PROJECT NO:

PERMIT APPLICATION NO.:

ENERGY COMPLIANCE FORMS
E0.30
DSA RESUB. SET

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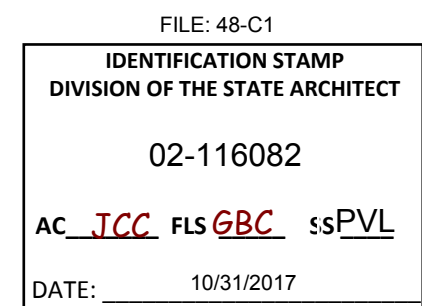


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**ENERGY
COMPLIANCE FORMS**

E0.40

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STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E
Indoor Lighting (Page 3 of 6)

Project Name: SCC - Vacaville Annex Date Prepared: 4/14/2017

E. Declaration of Required Certificates of Acceptance

Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	FORM/TITLE	
<input type="radio"/>	<input type="radio"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/> Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/> Field Inspector
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/> Field Inspector
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for: ☒ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

☒ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
☒ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E
Indoor Lighting (Page 4 of 6)

Project Name: SCC - Vacaville Annex Date Prepared: 4/14/2017

G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

- This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.
- This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire W/ft ²						Office Location	Field Inspector	
01	02	03	04	05	06	07	08	09	10
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Square feet of this office	Watts per square foot (G04 / G05)	If G06 ≤ 0.3, enter zero; If G06 > 0.3, (G06-0.3)	(G05 x G07)	Identify Office area in which these portable luminaires are installed	Pass Fail
			0				0		<input type="radio"/> <input type="radio"/>
			0				0		<input type="radio"/> <input type="radio"/>
			0				0		<input type="radio"/> <input type="radio"/>
			0				0		<input type="radio"/> <input type="radio"/>
			0				0		<input type="radio"/> <input type="radio"/>
Total installed portable luminaire watts that are greater than 0.3 W/ft ² per office:								Enter sum total of all pages into NRCC-LTI-01-E, Page 2	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E
Indoor Lighting (Page 5 of 6)

Project Name: SCC - Vacaville Annex Date Prepared: 4/14/2017

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for: ☐ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts				Location	Field Inspector ¹		
01	02	03	04	05	06	07	08		
Name or Item Fig	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F3278, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined		Number Luminaires	Total Installed Watts in this area (M03 x M05)	Primary Function area in which these luminaires are installed	Pass	Fail
			CEC Default from M03	According to §130.10(c)					
INSTALLED WATTS PAGE TOTAL:						10760	Enter sum total of all pages into NRCC-LTI-01-E, Page 2		

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E
Indoor Lighting (Page 6 of 6)

Project Name: SCC - Vacaville Annex Date Prepared: 4/14/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Dennis Cheung
Documentation Author Signature: _____
Signature Date: 4/14/2017

Company: C&N Engineers, Inc.
Address: 391 Sutter Street, Suite 202
City/State/Zip: San Francisco, CA 94108
Phone: 415-982-1828

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name: Dennis Cheung
Responsible Designer Signature: _____
Signature Date: 4/14/2017

Company: C&N Engineers, Inc.
Address: 391 Sutter Street, Suite 202
City/State/Zip: San Francisco, CA 94108
License: E9279
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

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PROJECT:

Vacaville Classroom Building
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CONSULTANT TEAM:

STAMP

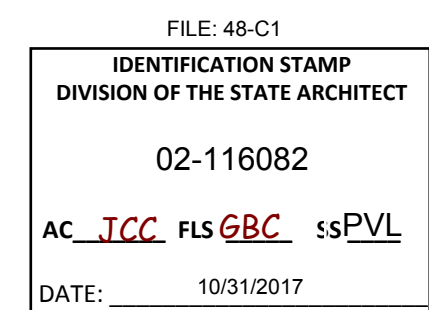


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10/18/2017		DSA RESUBMIT

KEY PLAN:



SCALE:
DATE:
PROJECT NO:
PERMIT APPLICATION NO.:

ENERGY
COMPLIANCE FORMS

E0.50

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STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS

CEC-NRCC-LTI-02-E (Revised 01/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: SCC - Vacaville Annex	Date Prepared: 4/14/2017

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)		
YES	NO	Control Requirements
<input checked="" type="radio"/>	<input type="radio"/>	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
<input checked="" type="radio"/>	<input type="radio"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input type="radio"/>	<input checked="" type="radio"/>	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input type="radio"/>	<input checked="" type="radio"/>	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
<input checked="" type="radio"/>	<input type="radio"/>	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
<input checked="" type="radio"/>	<input type="radio"/>	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
<input checked="" type="radio"/>	<input type="radio"/>	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
<input checked="" type="radio"/>	<input type="radio"/>	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
<input checked="" type="radio"/>	<input type="radio"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
<input checked="" type="radio"/>	<input type="radio"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylight zones are shown on the plans.
<input checked="" type="radio"/>	<input type="radio"/>	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
<input checked="" type="radio"/>	<input type="radio"/>	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS

CEC-NRCC-LTI-02-E (Revised 01/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: SCC - Vacaville Annex	Date Prepared: 4/14/2017

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:

☒ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist														
Lighting Control Schedule			Standards Complying With ¹ (✓ all that apply, or leave empty if Exempted)								PAF Credit Calculation ²			Field Inspector
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	\$130.1(a)	\$130.0(b)	\$130.1(c)	\$130.1(d)	\$130.1(e)	\$140.6(a)2	\$140.6(d)					
	OS/DIMMER/DL		•	•	•	•						0	<input checked="" type="checkbox"/>	<input type="radio"/>
	OS/DIMMER		•	•	•							0	<input checked="" type="checkbox"/>	<input type="radio"/>
	OS/DIMMER		•	•	•							0	<input checked="" type="checkbox"/>	<input type="radio"/>
	OS/DIMMER		•	•	•							0	<input type="checkbox"/>	<input type="radio"/>
												0	<input type="checkbox"/>	<input type="radio"/>
												0	<input type="checkbox"/>	<input type="radio"/>
												0	<input type="checkbox"/>	<input type="radio"/>
Control Credit PAGE TOTAL (Sum of Column 13):													0	
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):														
1. \$130.1(a) = Manual area controls; \$130.0(b) = Multi Level; \$130.1(c) = Auto Shut-Off; \$130.1(d) = Mandatory Daylight; \$130.1(e) = Demand Responsive; \$140.6(d) = Additional lighting controls installed to earn a PAF; \$140.6(a)2 = Prescriptive Secondary Sidelit Daylight Controls.														
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.														

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS

CEC-NRCC-LTI-02-E (Revised 01/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: SCC - Vacaville Annex	Date Prepared: 4/14/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Dennis Cheung	Documentation Author Signature:
Company: C&N Engineers, Inc	Signature Date: 4/14/2017
Address: 391 Sutter Street, Suite 202	CEA Certification Identification (if applicable):
City/State/Zip: San Francisco, CA 94108	Phone: 415-982-1828
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California:	
1. The information provided on this Certificate of Compliance is true and correct.	
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).	
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.	
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.	
Responsible Designer Name: Dennis Cheung	Responsible Designer Signature:
Company: C&N Engineers, Inc	Date Signed: 4/14/2017
Address: 391 Sutter Street, Suite 202	License: E9279
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

January 2016

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Vacaville Classroom Building (Annex) Renovation Project

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FILE: 48-C1

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

02-116082

AC JCC FLS GBC ss PVL

DATE: 10/31/2017

ENERGY COMPLIANCE FORMS

E0.60

STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE CEC-NRCC-LTI-03-E (Revised 04/16)		CALIFORNIA ENERGY COMMISSION 	
CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance		NRCC-LTI-03-E (Page 1 of 4)	
Project Name: SCC - Vacaville Annex		Date Prepared: 4/14/2017	

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:

☒ **CONDITIONED spaces**

 ☐ **UNCONDITIONED spaces**

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES 📄

If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
 If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)	0	
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		15995
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1	0	15995

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE 📄

01	02	X	03	=	04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft ²		COMPLETE BLDG. AREA		ALLOWED WATTS
					0
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					0

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES 📄

	Watts
Total from section C-2.	15995
Total from section C-3.	
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	15995

For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

[illegible]

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/18)

CALIFORNIA ENERGY COMMISSION
NRCC-LTI-03-E
(Page 2 of 4)

CERTIFICATE OF COMPLIANCE
Certificate of Compliance - Indoor Lighting Power Allowance
Project Name: SCC - Vacaville Annex

Date Prepared: 4/14/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☒ **CONDITIONED spaces** ☐ **UNCONDITIONED spaces**

C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

- Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
- Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		X	02	=	03	04
AREA CATEGORY (From §140.6 Table 140.6-C)			WATTS PER ft ²		AREA (ft ²)	
Location in Building	Primary Function Area per Table 140.6-C					
Ground floor	Classroom		1.2		8102	9722.4
	Lounge		0.9		1589	1430.1
	CORRIDOR/Restroom		0.6		1899	1139.4
	RECEPTION/LOBBY		0.95		281	266.95
	OFFICE		1.0		1822	1822
	ELECTRICAL / IT / COPY ROOM		0.55		390	214.5
	CONFERENCE ROOM		1.2		1166	1399.2
						0
						0
						0
						0
						0
						0
						0
						0
						0
TOTALS					15249	
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						15995
						WATTS

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE CEC-NRCC-LTI-03-E (Revised 04/10)		CALIFORNIA ENERGY COMMISSION 	
CERTIFICATE OF COMPLIANCE		NRCC-LTI-03-E	
Certificate of Compliance - Indoor Lighting Power Allowance		(Page 4 of 4)	
Project Name: SCC - Vacaville Annex		Date Prepared: 4/14/2017	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Dennis Cheung	Documentation Author Signature:
Company: C&N Engineers, Inc	Signature Date: 4/14/2017
Address: 391 Sutter Street, Suite 202	CEA Certification Identification (if applicable):
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1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.	
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

ENERGY COMPLIANCE FORMS

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SHEET NOTES

1. CIRCUIT NUMBERS ARE SCHEMATIC AND SHOW THE DESIGN INTENTION AND LOAD BALANCE REQUIREMENTS. CONTRACTOR SHALL INCLUDE IN HIS BID THE TIME REQUIRED TO FIELD VERIFY AND TRACE ALL EXISTING AVAILABLE CIRCUITS AND THOSE, WHICH BECOME AVAILABLE AS A RESULT OF DEMOLITION. CONTRACTOR SHALL INDICATE ACTUAL CIRCUITS USED ON AS-BUILD DRAWINGS AND PANEL DIRECTORY.
2. CONTRACTOR REPAIR ALL POWER PANEL DEFICIENCY PER AS FOLLOW. REPLACE PANEL IN PLACE WITH NEW IF THE FOLLOWING IS UN-REPAIRABLE.
 - 2.1. PANEL "L1B"
 - 2.1.1. PROVIDE KNOCK OUT SEAL FOR ANY KNOCK OUTS NOT CONNECTED TO ANY CONDUIT. BID TO INCLUDE 5 KNOCK OUTS.
 - 2.1.2. PROVIDE GROUNDING BUSHING ON ALL CONDUIT ENTRY. BID TO INCLUDE 10 CONDUIT ENTRIES.
 - 2.1.3. TRACE CIRCUITS AND PROVIDE ACCURATE TYPEWRITTEN PANEL SCHEDULE. BID TO INCLUDE 42 CIRCUITS PER PANEL.
 - 2.1.4. PROVIDE ALL ELECTRICAL WARNING SIGN ON PANEL AS REQUIRED BY CODE.
 - 2.2. PANEL "L1A", "H1A" AND "H1B"
 - 2.2.1. PROVIDE GROUNDING BUSHING ON ALL CONDUIT ENTRY. BID TO INCLUDE 10 CONDUIT ENTRIES PER PANEL PER PANEL.
 - 2.2.2. TRACE CIRCUITS AND PROVIDE ACCURATE TYPEWRITTEN PANEL SCHEDULE. BID TO INCLUDE 42 CIRCUITS PER PANEL.
 - 2.2.3. RESURFACE ANY OXIDATION/WATER DAMAGE AREA OF PANEL. REPLACE IN-PLACE WITH NEW PANEL IF DAMAGE IS BEYOND REPAIR.
 - 2.2.4. PROVIDE ALL ELECTRICAL WARNING SIGN ON PANEL AS REQUIRED BY CODE.
 - 2.3. PANEL "CC-LP"
 - 2.3.1. PROVIDE GROUNDING BUSHING ON ALL CONDUIT ENTRY. BID TO INCLUDE 10 CONDUIT ENTRIES.
 - 2.3.2. TRACE CIRCUITS AND PROVIDE ACCURATE TYPEWRITTEN PANEL SCHEDULE. BID TO INCLUDE 42 CIRCUITS PER PANEL.
 - 2.3.3. PROVIDE FEEDER PHASE IDENTIFIER TAGS/LABELS
3. CONTRACTOR TO TRACE ANY OPEN J-BOX; TERMINATE WIRES FOR FUTURE USE AND PROVIDE COVER, OR COORDINATE WITH GC TO REMOVE ANY NOT USED J-BOXES AND PATCH WALL. BID TO INCLUDE 10 J-BOXES
4. CONTRACTOR TO VERIFY UTILITY AIC WITH UTILITY COMPANY, AND PROVIDE AIC CALCULATION TO DOWNSTREAM COMPONENTS. REPLACE IN PLACE ANY COMPONENTS NOT MEETING MINIMAL AIC RATING WITH COMPONENTS THAT EXCEEDS CALCULATED AIC.
5. CONTRACTORS TO PROVIDE 30DAY ENERGY MONITORING ON BOTH 200AMP AND 400AMP EXISTING UTILITY SERVICE, TO ENSURE THESE ARE SUFFICIENT FOR THE FACILITY. MONITORING REPORT TO BE PROVIDE FOR OWNER/ENGINEER REVIEW.
6. CONTRACTOR TO PROVIDE HIPOT TESTING ON EXISTING FEEDERS FROM UTILITY SERVICE TO PANEL "H1A", "H1B" AND "CC-LP", AND PROVIDE TEST RESULT/REPORT FOR OWNER/ENGINEER REVIEW. REPLACE ANY FEEDER THAT DOES NOT MEETING MANUFACTURE STANDARD. LENGTH AND SIZE TO MATCH EXISTING WITH FIELD VERIFICATION. SEE SINGLE-LINE DIAGRAM FOR REFERENCE
7. CONTRACTOR TO VERIFY FEEDER LENGTH AND VOLTAGE DROP INDICATED ON SINGLE-LINE DIAGRAM. PROVIDE VERIFICATION REPORT/CALCULATION AND NOTIFY OWNER/ENGINEER WHEN VOLTAGE DROP EXCEED 2% AND/OR THAT AS INDICATED ON SINGLE-LINE.
8. CONTRACTOR TO COORDINATE WITH MECHANICAL SUB TO ENSURE ALL MECHANICAL SYSTEM ARE SUFFICIENTLY POWERED. REPAIR OR PROVIDE NEW POWER CONNECTION TO ANY EQUIPMENT TO ENSURE PROPER OPERATION.
9. CONTRACTOR TO PROVIDE LABELS ON ALL RECEPTACLES, LIGHT SWITCHES, DISCONNECT SWITCHES WITH LABEL WITH PANEL NAME AND CIRCUIT NUMBER. LABELS SHALL BE WHITE BACKGROUND LABEL WITH BLACK LETTERING.
10. PROVIDE POWER CONNECTION TO SMOKE DETECTOR AND MOTORIZED DAMPER AS INDICATED ON MECHANICAL PLAN. COORDINATE WITH MECHANICAL CONTRACTOR AND MECHANICAL PLAN FOR EXACT LOCATION AND QUANTITY.
11. RELOCATED EXISTING 75 KVA TRANSFORM FORM RESTROOM CEILING TO COPY ROOM-127

OWNER:

Solano Community College District
2000 North Village Parkway
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ARCHITECT:

CA ARCHITECTS
475 Gate Five Road, Suite 107
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F 415.331.7656

PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

STAMP

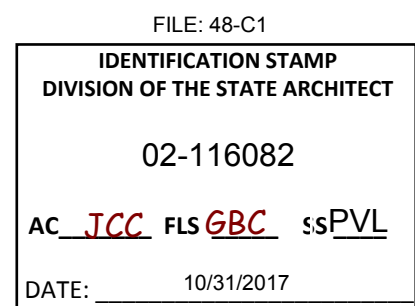


SHEET LEGEND:

ISSUE/REVISION:

NO.	DATE	DESCRIPTION:
04/25/2017		ISSUE FOR DD 100%
06/06/2017		ISSUE FOR CD 50%
06/30/2017		ISSUE FOR CD 60%
07/20/2017		ISSUE FOR CD 100%
10/18/2017		DSA RESUBMIT

KEY PLAN:

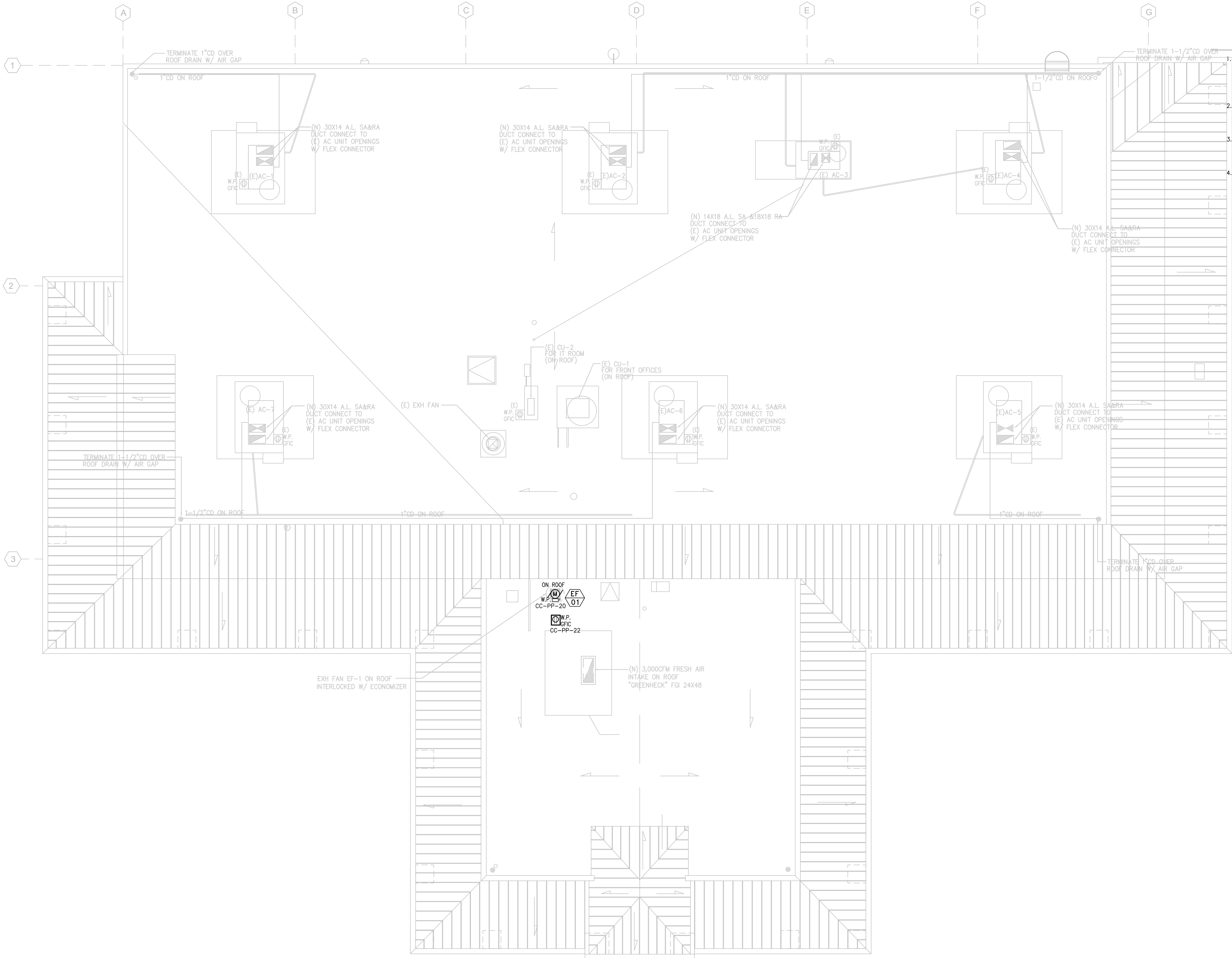


SCALE: _____
DATE: _____
PROJECT NO: _____
PERMIT APPLICATION NO.: _____

POWER PLAN

E1.00

DSA RESUB. SET



SHEET NOTES

1. CIRCUIT NUMBERS ARE SCHEMATIC AND SHOW THE DESIGN INTENTION AND LOAD BALANCE REQUIREMENTS. CONTRACTOR SHALL INCLUDE IN HIS BID THE TIME REQUIRED TO FIELD VERIFY AND TRACE ALL EXISTING AVAILABLE CIRCUITS AND THOSE, WHICH BECOME AVAILABLE AS A RESULT OF DEMOLITION. CONTRACTOR SHALL INDICATE ACTUAL CIRCUITS USED ON AS-BUILD DRAWINGS AND PANEL DIRECTORY.
2. CONTRACTOR TO COORDINATE WITH MECHANICAL SUB TO ENSURE ALL MECHANICAL SYSTEM ARE SUFFICIENTLY POWERED. REPAIR OR PROVIDE NEW POWER CONNECTION TO ANY EQUIPMENT TO ENSURE PROPER OPERATION.
3. CONTRACTOR TO PROVIDE LABELS ON ALL RECEPTACLES, LIGHT SWITCHES, DISCONNECT SWITCHES WITH LABEL WITH PANEL NAME AND CIRCUIT NUMBER. LABELS SHALL BE WHITE BACKGROUND LABEL WITH BLACK LETTERING.
4. CONTRACTOR TO COORDINATE WITH GC ON ROOF WORK, TO DISCONNECT AND SAFE OFF ANY ELECTRICAL CONNECTION TO ROOF EQUIPMENT DURING ROOF WORK, AND RECONNECTION OF ROOF EQUIPMENT AFTER ROOF WORK.

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CONSULTANT TEAM:

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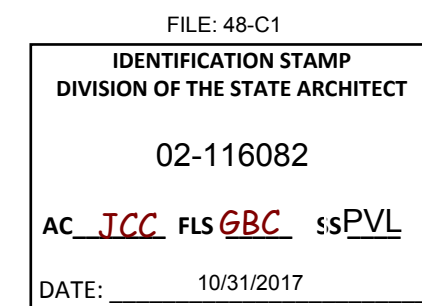


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KEY PLAN:



SCALE: _____
DATE: _____
PROJECT NO: _____
PERMIT APPLICATION NO.: _____

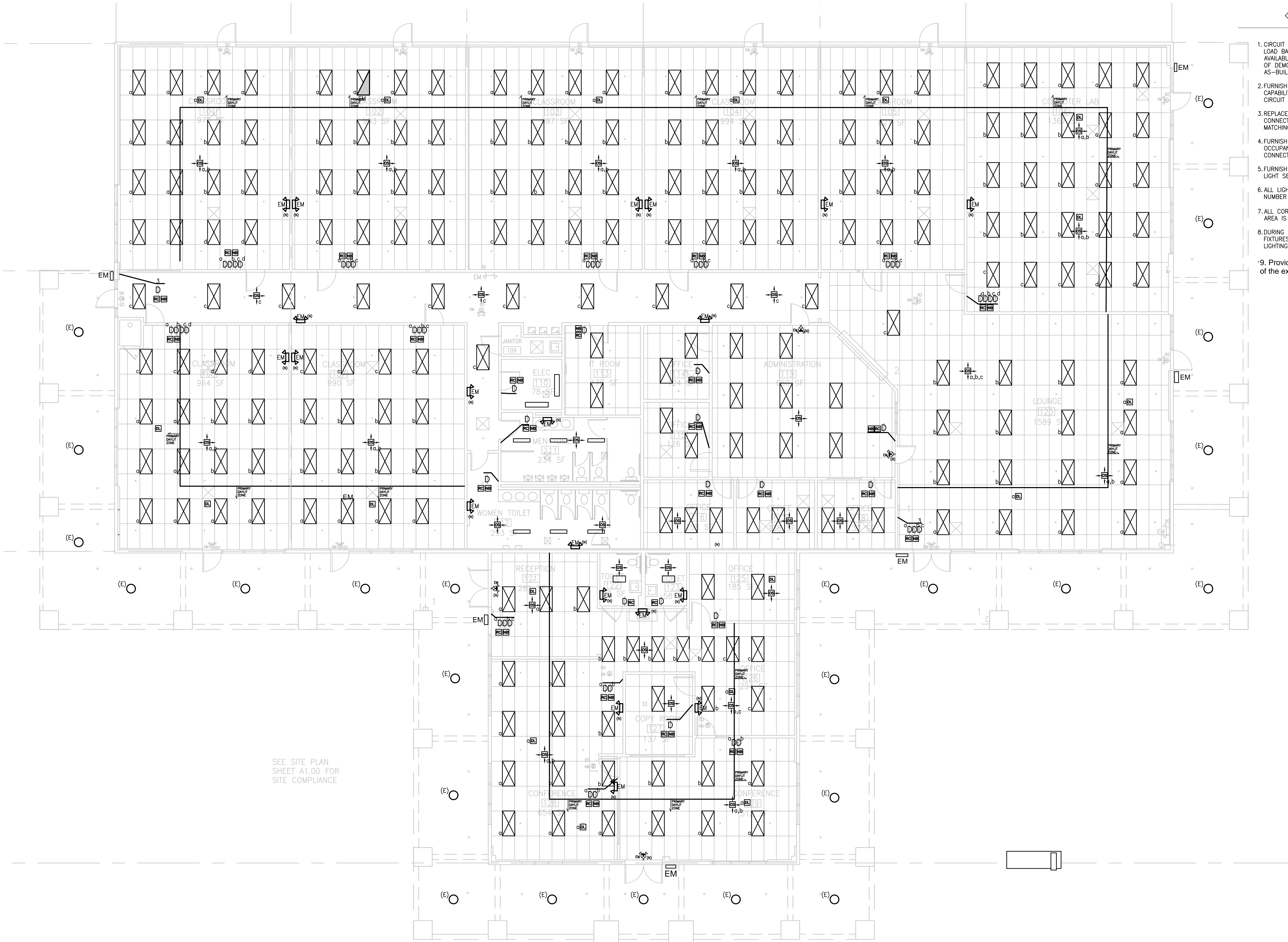
POWER PLAN
ROOF

E1.01

DSA RESUB. SET

1 POWER PLAN - ROOF

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



SHEET NOTES

1. CIRCUIT NUMBERS ARE SCHEMATIC AND SHOW THE DESIGN INTENTION AND LOAD BALANCE REQUIREMENTS. CONTRACTOR SHALL VERIFY ALL EXISTING AVAILABLE CIRCUITS AND THOSE, WHICH BECOME AVAILABLE AS A RESULT OF DEMOLITION. CONTRACTOR SHALL INDICATE ACTUAL CIRCUITS USED ON AS-BUILD DRAWINGS.
2. FURNISH AND INSTALL NEW BUILDING STANDARD LED FIXTURE WITH DIMMING CAPABILITY IN PLACE OF EXISTING FIXTURE AND CONNECT TO EXISTING CIRCUIT IN THE AREA.
3. REPLACE EXISTING SWITCH WITH BUILDING STANDARD DIMMER SWITCH AND CONNECT TO LIGHT FIXTURES IN THE AREA. PROVIDE WALL COLOR MATCHING BLANK COVER FOR ANY UNUSED GANG.
4. FURNISH AND INSTALL NEW BUILDING STANDARD CEILING MOUNTED OCCUPANCY SENSOR FOR LIGHTS IN THE AREA. SEE WIRING DIAGRAM FOR CONNECTION.
5. FURNISH AND INSTALL NEW BUILDING STANDARD CEILING MOUNTED DAY LIGHT SENSOR FOR LIGHTS IN THE AREA.
6. ALL LIGHT SWITCHES SHALL BE LABEL WITH PANEL NAME AND CIRCUIT NUMBER ON WHITE BACKGROUND LABEL WITH BLACK LETTERING
7. ALL CORE AREAS (HALLWAY AND LOUNGE) LIGHTS SHALL DIM TO 50% WHEN AREA IS NOT OCCUPIED.
8. DURING CEILING GRID SYSTEM, CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES, AND DEMO WIRES TO CLOSEST CEILING J-BOX TO SAFE OFF ALL LIGHTING CIRCUITS FOR NEW FIXTURE.
9. Provide CBC compliant EM Lighting (Battery Pack type OK) at each of the exterior landings at egress doors as shown (typ).

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PROJECT:
Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

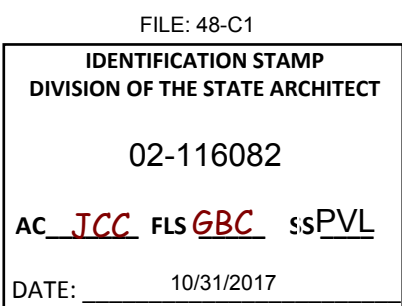
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07/20/2017		ISSUE FOR CD 100%
10/18/2017		DSA RESUBMIT

KEY PLAN:



SCALE:
DATE:
PROJECT NO:
PERMIT APPLICATION NO:

LIGHTING PLAN

E2.00

DSA RESUB. SET

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Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

STAMP

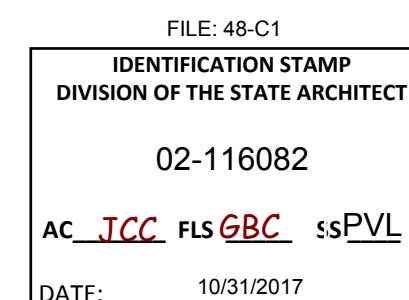


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KEY PLAN:



SCALE:

DATE:

PROJECT NO:

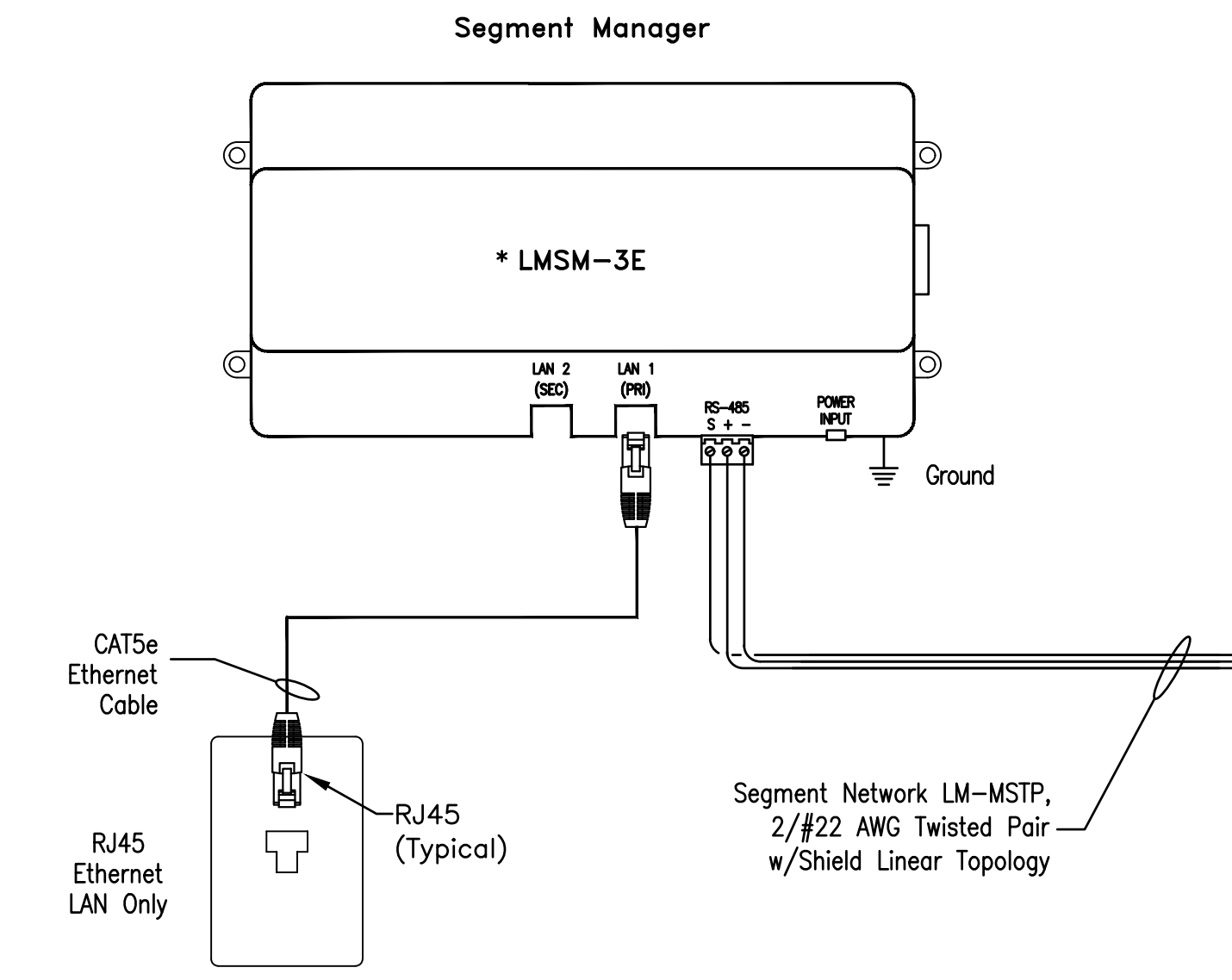
PERMIT APPLICATION NO.:

ELECTRICAL
WIRING DIAGRAMS

E3.00

DSA RESUB. SET

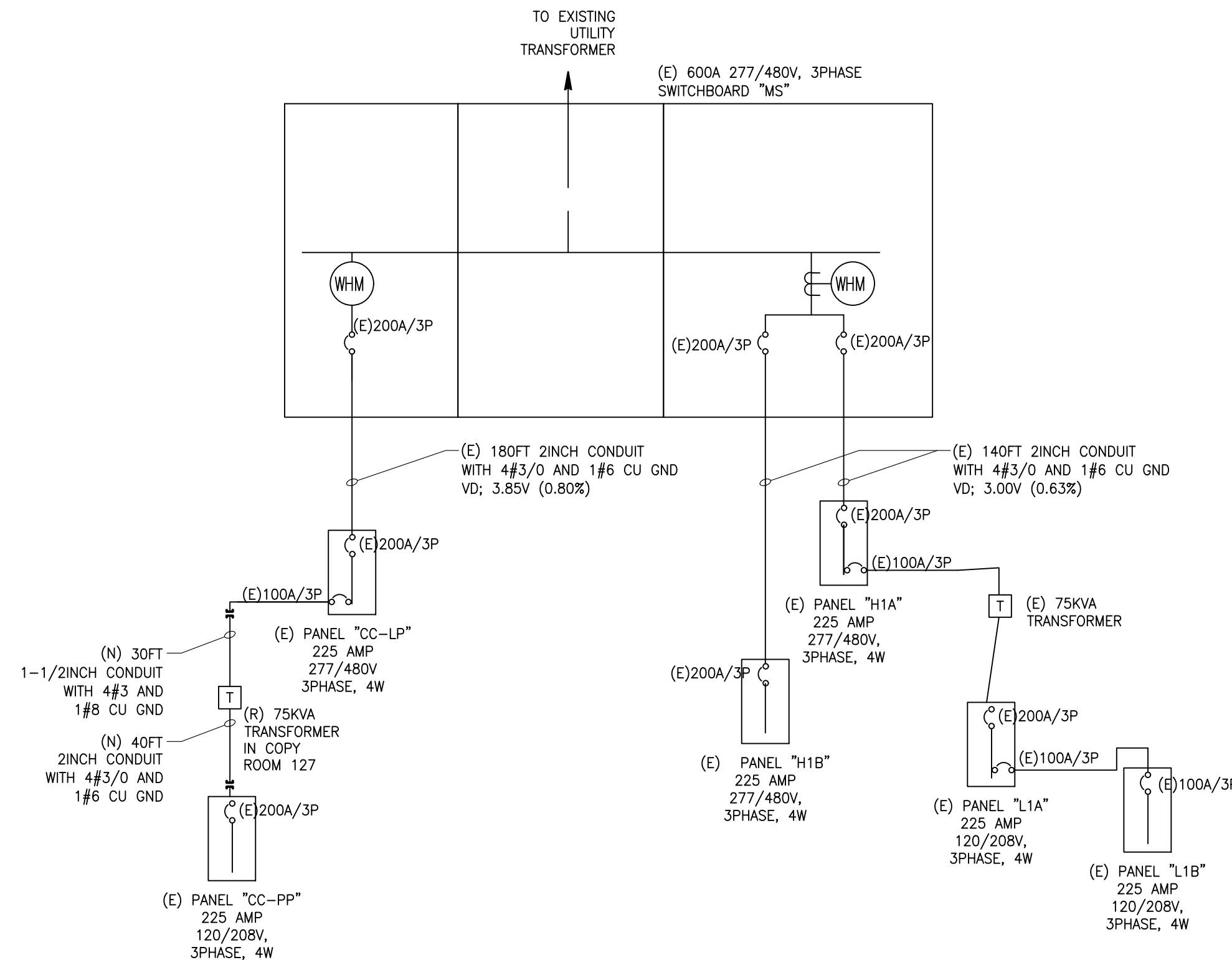
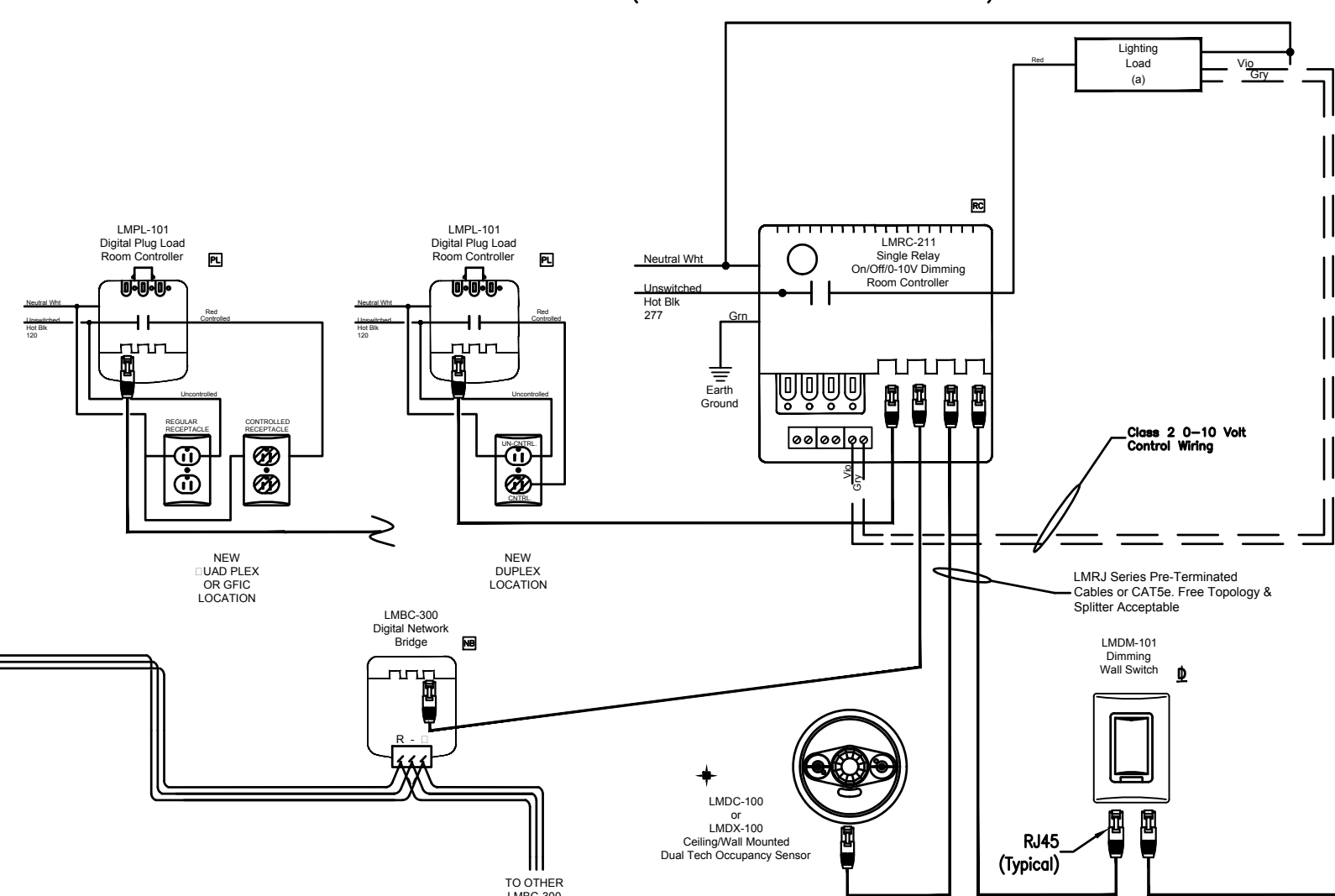
BUILDING
ELECTRICAL/TELE
ROOM.



The Building LAN is separate from the DLM Local Room Network. For full operational details, adjustments and more features of the product, see the DLM System Installation Guide at www.wattstopper.com

TYPICAL ROOM
WIRING DIAGRAM.

(NOT ALL DEVICES USED IN ALL AREA)



2 PARTIAL LIGHTING SYSTEM WIRE CONNECTION DIAGRAM

SCALE: NONE

1 SINGLE-LINE DIAGRAM

SCALE: NONE

LIGHTING FIXTURE SCHEDULE						
SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LAMPS	MOUNTING	COMMENTS
	RECESSED 2X4 LED LIGHT FIXTURE	LITHONIA LIGHTING	2AVL4-50L-MVOLT-EZ1-LP840-N100	LED	IN GRID	PROVIDE DIMMING. S.A.D. FOR MOUNTING DETAIL
	SURFACE MNT. LINEAR LED LIGHT FIXTURE	LITHONIA LIGHTING	ZL1N-L24(48)-###LM-FST-MVOLT-30K-80CRI-XX-XX	LED	SURFACE	PROVIDE DIMMING. S.A.D. FOR MOUNTING DETAIL

SHEET NOTES

- ANY CIRCUIT FEEDING FIRE ALARM COMPONENT SHALL BE MARKED WITH RED MARKING AND MECHANICALLY PROTECTED (LOCKOUT TYPE BREAKER), PER NFPA 72:10.6.5.2

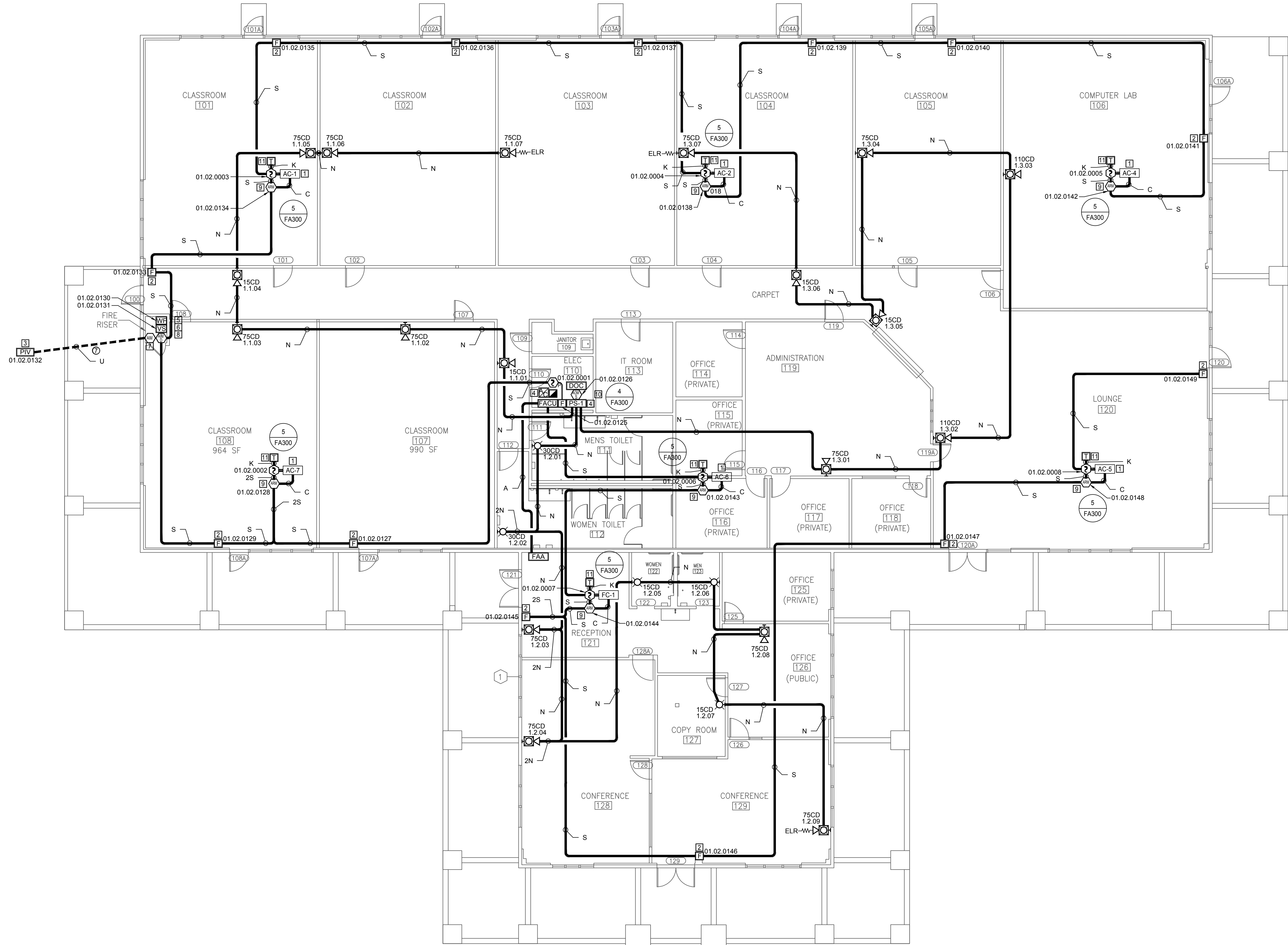
PANEL :CC-LP (existing) LOCATION: MAIN: 200A/3P									
277/480V, 3PHASE-4 WIRE BUS AMPACITY: 225A 100% Copper Ground Bus									
22KA MIN. AIC SYMMETRICAL									
DESCRIPTION	DEVICE	CktL	LOAD/PHASE(VA)				CktL	DEVICE	DESCRIPTION
No.	A	B	C	A	B	C	No.		
(E) 75KVA Transformer	100/3	1	25000			13833	2	60/3	(E) AC
(E) 75KVA Transformer	-	3		25000		13833	4	-	(E) AC
(E) 75KVA Transformer	-	5			25000		6	-	(E) AC
Spare	20/1	7					8	B	Blank
(E) Exit Lights	20/1	9		200			10	B	Blank
(E) Lights	20/1	11			1500		12	B	Blank
(E) Lights	20/1	13	1500				14	B	Blank
Blank	B	15					16	B	Blank
Blank	B	17					18	B	Blank
Blank	B	19					20	B	Blank
Blank	B	21					22	B	Blank
Blank	B	23					24	B	Blank
Blank	B	25					26	B	Blank
Blank	B	27					28	B	Blank
Blank	B	29					30	B	Blank
SUBTOTAL (VA)			26500	25200	26500	13833	13833	13833	SUBTOTAL (VA)
TOTAL ALL PHASES (KVA)			PHASE A	PHASE B	PHASE C				TOTAL ALL PHASES (AMPS)
			40333	39033	40333				144

PANEL : CC-PP (existing) LOCATION: MAIN: 200A/3P									
120/208V, 3PHASE-4 WIRE BUS AMPACITY: 225A 100% Copper Ground Bus									
22KA MIN. AIC SYMMETRICAL									
DESCRIPTION	DEVICE	CktL	LOAD/PHASE(VA)				CktL	DEVICE	DESCRIPTION
No.	A	B	C	A	B	C	No.		
(E) Rec. - Classroom	20/1	1	1080			1500	2	20/1	(E) Power pole
(E) Rec. - Classroom	20/1	3		1080		1500	4	20/1	(E) Power pole
(E) Rec. - Classroom	20/1	5			1080		6	20/1	(E) Rec.
(E) Rec. - Classroom	20/1	7	1080			1080	8	20/1	(E) Rec.
(E) Rec. - Classroom	20/1	9		1080		1080	10	20/1	(E) Rec.
Spare	20/1	11					12	20/1	Condensate Pump
(E) 208V Printer	30/2	13	1500			700	14	20/1	Motorized dampers
(E) 208V Printer	-	15		1500			16	20/1	Smoke detector
Spare	20/1	17					18	20/1	Smoke detector
Spare	20/1	19			200		20	20/1	Exhaust Fan
Spare	20/1	21				180	22	20/1	Roof GFIC receptacle
Spare	20/1	23					24	20/1	Spare
Spare	20/1	25					26	20/1	Spare
Spare	20/1	27				500	28	20/1	(E) A/C lights
Spare	30/1	29					30	20/1	Spare
Spare	20/1	31				1500	32	30/2	(E) 208V Printer
Spare	20/1	33				1500	34	-	(E) 208V Printer
(E) Water Heater	20/1	35			1500		36	20/1	Spare
(E) Rec. - Classroom	20/1	37	1080			500	38	20/1	(E) Projector
(E) Rec. - Classroom	20/1	39		1080		1000	40	20/2	(E) 208V Printer
(E) Rec. - Classroom	20/1	41			1080		42	-	(E) 208V Printer
SUBTOTAL (VA)			4740	4740	3660	5480	5860	3260	SUBTOTAL (VA)
TOTAL ALL PHASES (KVA)			PHASE A	PHASE B	PHASE C				TOTAL ALL PHASES (AMPS)
			10220	10600	6920				77

PANEL :H1A (existing) LOCATION: MAIN: 200A/3P									
277/480V, 3PHASE-4 WIRE BUS AMPACITY: 225A 100% Copper Ground Bus									
22KA MIN. AIC SYMMETRICAL									
DESCRIPTION	DEVICE	CktL	LOAD/PHASE(VA)				CktL	DEVICE	DESCRIPTION
No.	A	B	C	A	B	C	No.		
Lighting - Classroom; 101/102	20/1	1	1500			2500	2	20/2	(E) Site Lighting
Lighting - Classroom; 103/104	20/1	3		1500		2500	4	-	(E) Site Lighting
Lighting - Classroom; 105/106	20/1	5			1500		6	20/2	(E) Site Lighting
Lighting - Night Light	20/1	7	500			2500	8	-	(E) Site Lighting
Lighting - Corridor/Lobby	20/1	9		1000			10	20/1	Spare
Lighting - Office	20/1	11			1000		12	20/1	(E) Bollard Lights
Lighting - Office	20/1	13	1000				14	20/1	Spare
Lighting - Lounge	20/1	15		1000			16	B	Blank
Lighting - Classroom; 107/108	20/1	17			1500		18	B	Blank
Spare	20/1	19					20	B	Blank
Spare	20/1	21					22	B	Blank
Spare	20/1	23					24	B	Blank
Spare	20/1	25					26	B	Blank
Spare	20/1	27					28	B	Blank
Blank	B	29					30	B	Blank
Blank	B	31					32	B	Blank
Blank	B	33					34	B	Blank
Blank	B	35					36	B	Blank
Blank	B	37			25000		38	100/3	(E) 75KVA Transformer to Panel "L1A"
Blank	B	39				25000	40	-	(E) 75KVA Transformer to Panel "L1A"
Blank	20/1	41				25000	42	-	(E) 75KVA Transformer to Panel "L1A"
SUBTOTAL (VA)			3000	3500	4000	30000	27500	27500	SUBTOTAL (VA)
TOTAL ALL PHASES (KVA)			PHASE A	PHASE B	PHASE C				TOTAL ALL PHASES (AMPS)
			95900	33000	31000	31900			115

PANEL :L1A (existing) LOCATION: MAIN: 200A/3P									
120/208V, 3PHASE-4 WIRE BUS AMPACITY: 225A 100% Copper Ground Bus									
22KA MIN. AIC SYMMETRICAL									
DESCRIPTION	DEVICE	CktL	LOAD/PHASE(VA)				CktL	DEVICE	DESCRIPTION
No.	A	B	C	A	B	C	No.		
(E) Rec. - Classroom	20/1	1	1080			1500	2	30/1	(E) Water Heater
(E) Rec. - Classroom	20/1	3		1080		1500	4	30/1	(E) Water Heater
(E) Rec. - Classroom	20/1	5			1080		6	20/1	(E) Security Light
(E) Rec. - Classroom	20/1	7	1080			180	8	20/1	(E) Rec. - TTB
(E) Rec. - Classroom	20/1	9		1080		100	10	20/1	(E) FA Ball
(E) Rec. - Classroom	20/1	11			1080		12	20/1	(E) Plaza Directory
(E) Rec. - Classroom	20/1	13	1080			150	14	20/1	(E) Soft Lights
(E) Rec. - Classroom	20/1	15		1080		1000	16	15/2	(E) Fountain Pump
(E) Rec. - Classroom	20/1	17			1080		18	-	(E) Fountain Pump
(E) Rec. - Classroom	20/1	19	1080			100	20	15/1	(E) Fountain Lights
(E) Rec. - Classroom	20/1	21		1080		500	22	20/1	(E) Irrigation Controller
(E) Rec. - Classroom	20/1	23			1080		24	20/1	(E) Exhaust Fan
(E) Rec. - Office	20/1	25	1080			500	26	30/1	(E) Drinking Fountain
(E) Rec. - Office	20/1	27		1080		500	28	20/1	(E) Drinking Fountain
(E) Rec. - Office	30/1	29			1080		30	20/1	(E) Drinking Fountain
(E) Rec. - Office	20/1	31	1080			500	32	20/1	(E) LCC Control
(E) Rec. - Office	20/1	33		1080		100	34	20/1	(E) FA Communicator
(E) Rec. - Office	20/1	35			1080		36	20/1	(E) Wall Sconce
Spare	30/1	37					38	100/3	(E) Panel L1B
Spare	30/1	39					40	-	(E) Panel L1B
Blank	B	41					42	-	(E) Panel L1B
SUBTOTAL (VA)			6480	6480	6480	2930	3700	2400	SUBTOTAL (VA)
TOTAL ALL PHASES (KVA)			PHASE A	PHASE B	PHASE C				TOTAL ALL PHASES (AMPS)
			28470	9410	10180	8880			79

PANEL :H1B (existing) LOCATION: MAIN: 200A/3P									
277/480V, 3PHASE-4 WIRE BUS AMPACITY: 225A 100% Copper Ground Bus									
22KA MIN. AIC SYMMETRICAL									
DESCRIPTION	DEVICE	CktL	LOAD/PHASE(VA)				CktL	DEVICE	DESCRIPTION
No.	A	B	C	A	B	C	No.		
Blank	20/1	1					2	B	Blank
Blank	20/1	3					4	B	Blank
Blank	20/1	5					6	B	Blank
Blank	20/1	7					8	B	Blank
Blank	20/1	9					10	B	Blank
Blank	20/1	11					12	B	Blank
Blank	20/1	13					14	B	Blank
Blank	20/1	15					16	B	Blank
Blank	20/1	17					18	B	Blank
(E) AC-1	30/3	19	2880				20	20/3	Spare



- SQUARE NUMBERED NOTES ARE COMMON TO ALL 'FA' SERIES' SHEETS
- 1 FIELD VERIFY EXACT LOCATION OF AC UNITS.
 - 2 NEW MANUAL PULL STATIONS. INSTALL PER 2016 NFPA 72 REQUIREMENTS. MOUNT MANUAL PULL STATION 48" TO CENTER OF OPERABLE PART AND NO GREATER THAN 5' FROM REQUIRED EXIT.
 - 3 FIELD VERIFY EXACT LOCATION OF PIV
 - 4 120VAC 20AMP DEDICATED POWER FOR FIRE PANELS/POWER SUPPLY
 - 5 INSTALL MODULE IN WEATHERPROOF J-BOX. CONNECT WITH 3/4" FLEX TO FLOW SWITCH
 - 6 INSTALL MODULE IN WEATHERPROOF J-BOX. CONNECT WITH 3/4" FLEX TO FLOW SECTION VALVE
 - 7 INSTALL MODULE IN WEATHERPROOF J-BOX. CONNECT WITH 1" UNDERGROUND CONDUIT TO PIV/ OS&Y/ SECTION VALVE/TAMPER SWITCH
 - 8 VALVE/TAMPER SWITCH
 - 9 INTERFACE AND CONTROL HVAC EQUIPMENT
 - 10 POWER EXPANDER TRIP
 - 11 LOCATE REMOTE TEST STATION ON CEILING TILE BENEATH AIR CONDITIONING UNIT.

- ROUND NUMBERED NOTES ARE COMMON TO ALL 'FA' SERIES' SHEETS
- 1 3/4" CONDUIT EMT
 - 2 1" CONDUIT EMT
 - 3 1 1/4" CONDUIT EMT
 - 4 2" CONDUIT EMT
 - 5 1" FLEX CONDUIT WP
 - 6 3/4" CONDUIT PVC
 - 7 1" CONDUIT PVC
 - 8 1 1/4" CONDUIT PVC
 - 9 2" CONDUIT PVC
 - 10 4" CONDUIT PVC
 - 11 3/4" CONDUIT IMC
 - 12 1" CONDUIT IMC
 - 13 1 1/4" CONDUIT IMC
 - 14 2" CONDUIT IMC

JUNCTION BOX SCHEDULE			
SYMBOL	H (INCHES)	W (INCHES)	D (INCHES)
J1	2	4	2.5
J2	4	4	2.25
J3	6	6	4
J4	12	12	4
J5	18	18	6
J6	24	24	8

- GENERAL SHEET NOTES
- 1) MINIMUM CONDUIT SIZE SHALL BE 3/4". ELECTRICAL CONTRACTOR SHALL SIZE CONDUIT TO A MAXIMUM 40% FILL RATE.
 - 2) ALL FIRE ALARM DEVICES SHALL BE MOUNTED TO A BACKBOX.
 - 3) CIRCUITS SHALL NOT BE SPLICED. LOOP CIRCUITS CONTINUOUSLY THROUGH UNDERGROUND PULL BOXES AND JUNCTION CANS. TERMINATE CIRCUITS AT DEVICES AND AT FIRE ALARM TERMINAL CANS ONLY WITH CIRCUITS LABELED ON TERMINAL STRIPS. T-TAPPING OF DATA CIRCUITS ARE ONLY ALLOWABLE IN LOCATIONS INDICATED ON FLOOR PLANS.
 - 4) DEVICE MOUNTING AND BACK BOXES SHALL BE PER MANUFACTURERS RECOMMENDATIONS.
 - 5) REFERENCE 'E' SHEETS FOR INFRASTRUCTURE CIRCUIT PATHWAY.
 - 6) CIRCUIT PATHWAY IS DIAGRAMMATIC FOR EASE OF ILLUSTRATION. INSTALLING CONTRACTOR MAY REROUTE AS NECESSARY. ALTERNATE ROUTES SHALL BE PRE-APPROVED BY THE PROJECT MANAGER AND UPDATED ON THE AS-BUILTS/RECORD SET.
 - 7) DEVICE LOCATION IS ACTUAL, ANY DEVIATION MUST BE APPROVED BY THE PROJECT MANAGER.
 - 8) RUN ALL CIRCUITS IN CONDUIT, 3/4" MINIMUM.
 - 9) NON-DOCUMENTED FIRE DEVICES AND ANCILLARY CONTROL OR EQUIPMENT NOT SHOWN ON THE DESIGN DRAWING SHALL BE BROUGHT TO THE PROJECT MANAGERS ATTENTION FOR INTERFACING INTO THIS SYSTEM.
 - 10) UNDERGROUND TO BUILDING CIRCUIT CONNECTIONS SHALL BE MADE ON TERMINAL STRIPS.
 - 11) INITIATING DEVICE ADDRESSES SHALL BE FIELD PROGRAMMED AND DOCUMENTED ON CONTRACTOR PROVIDED AS-BUILTS.
 - 12) DUCT MOUNTED SMOKE DETECTORS SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR, INSTALLED AND INTERLOCKED FOR FAN SHUTDOWN BY MECHANICAL CONTRACTOR, AND WIRED TO FIRE ALARM CONTROL UNIT BY FIRE ALARM CONTRACTOR.



0 4' 8' 16'
1/8"=1'-0"

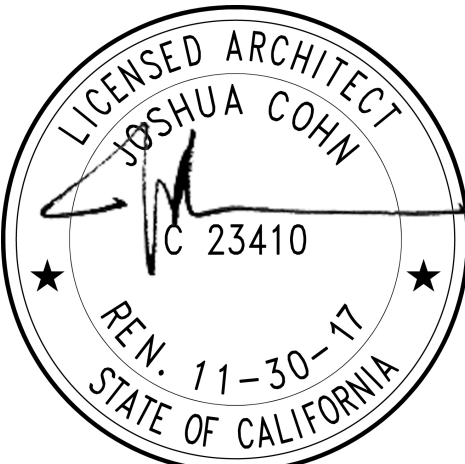
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PROJECT:
Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

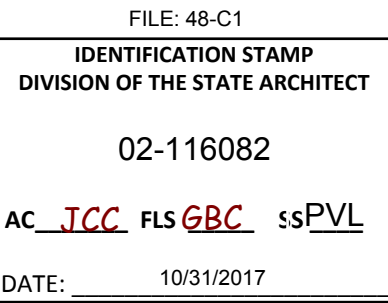
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FLOOR PLAN

FA2.00

OWNER:

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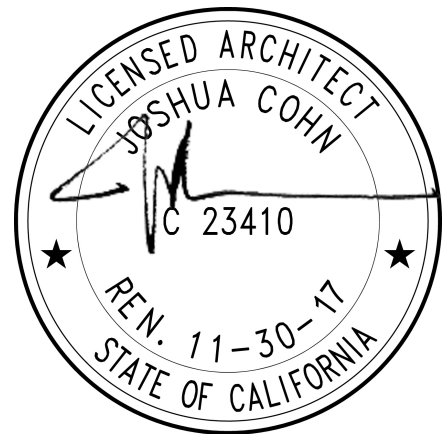
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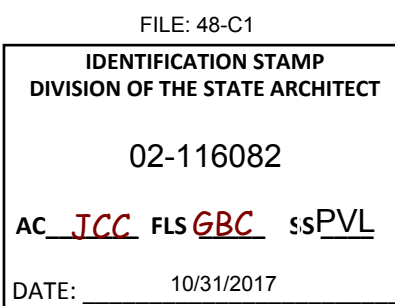
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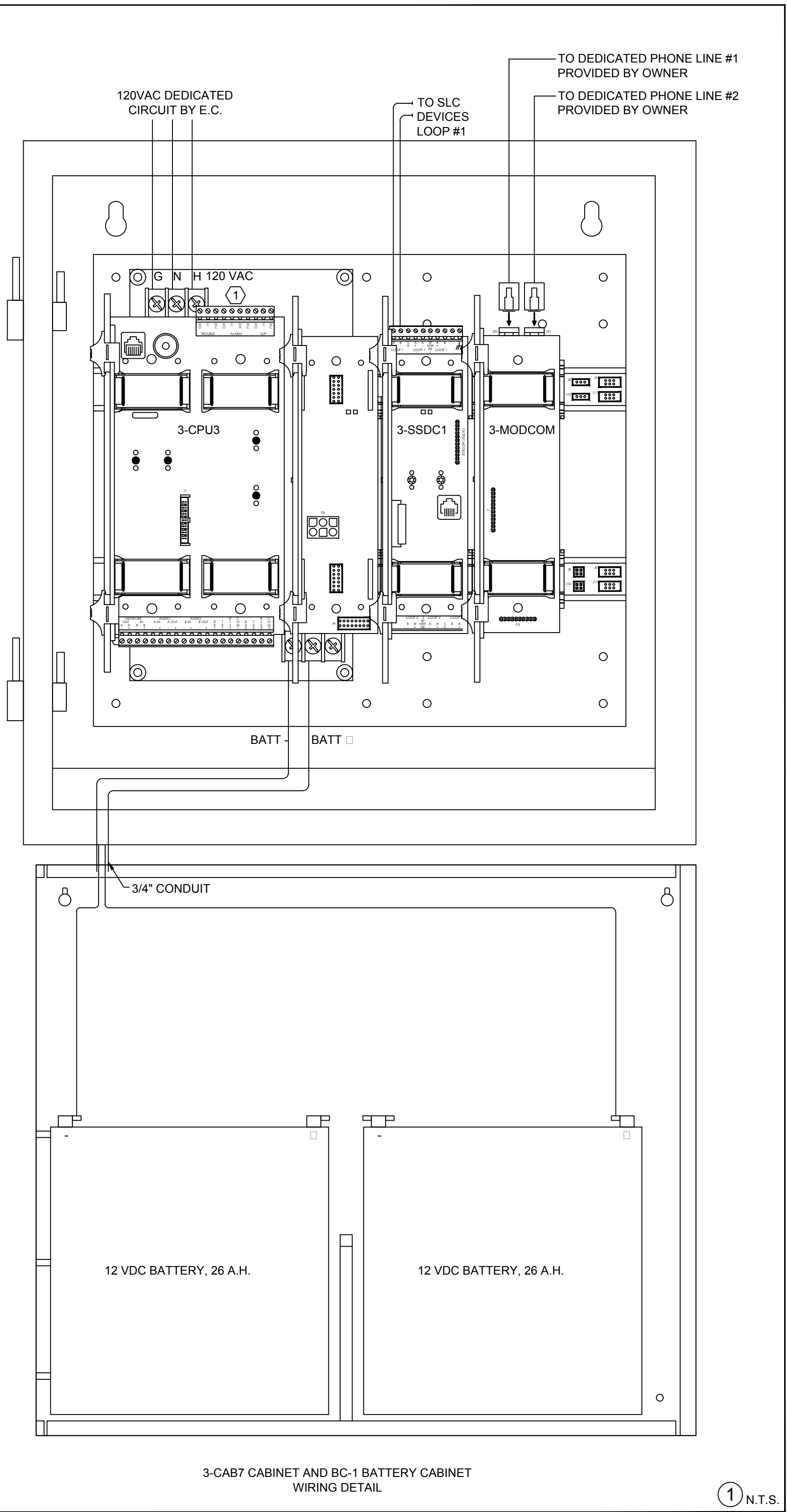
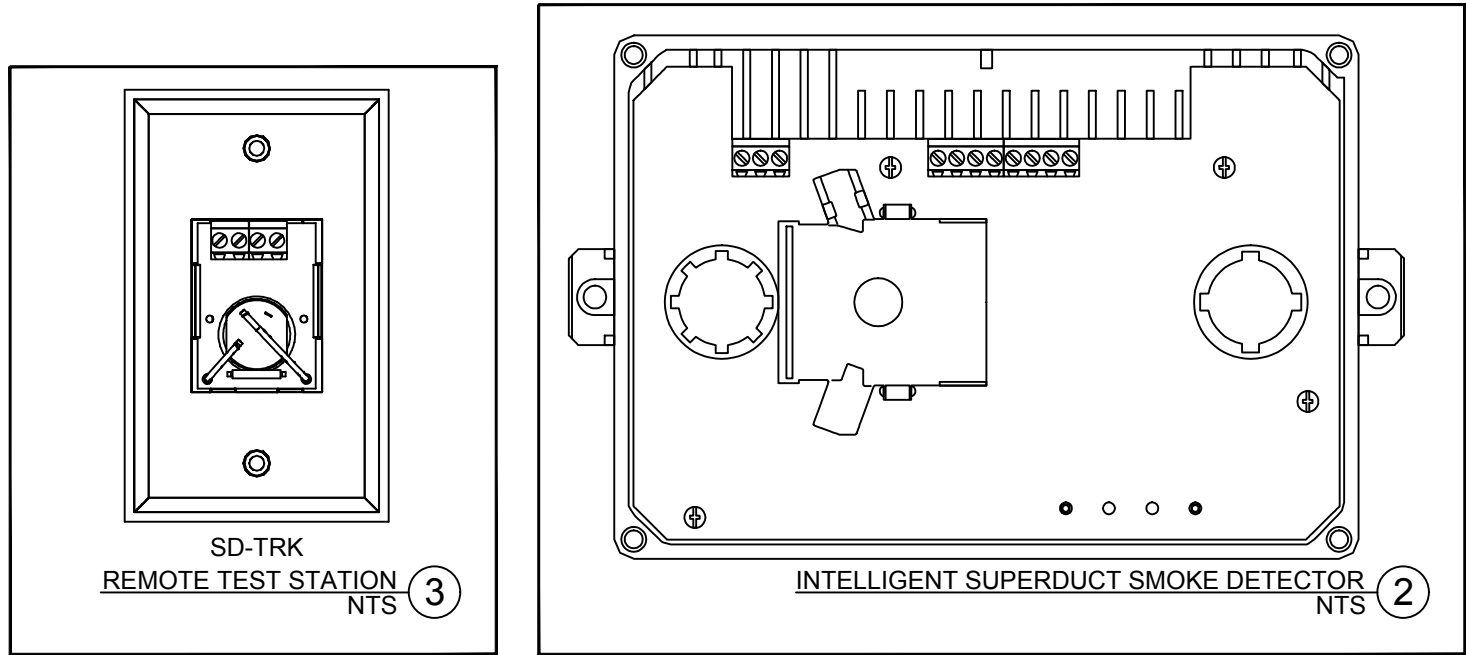
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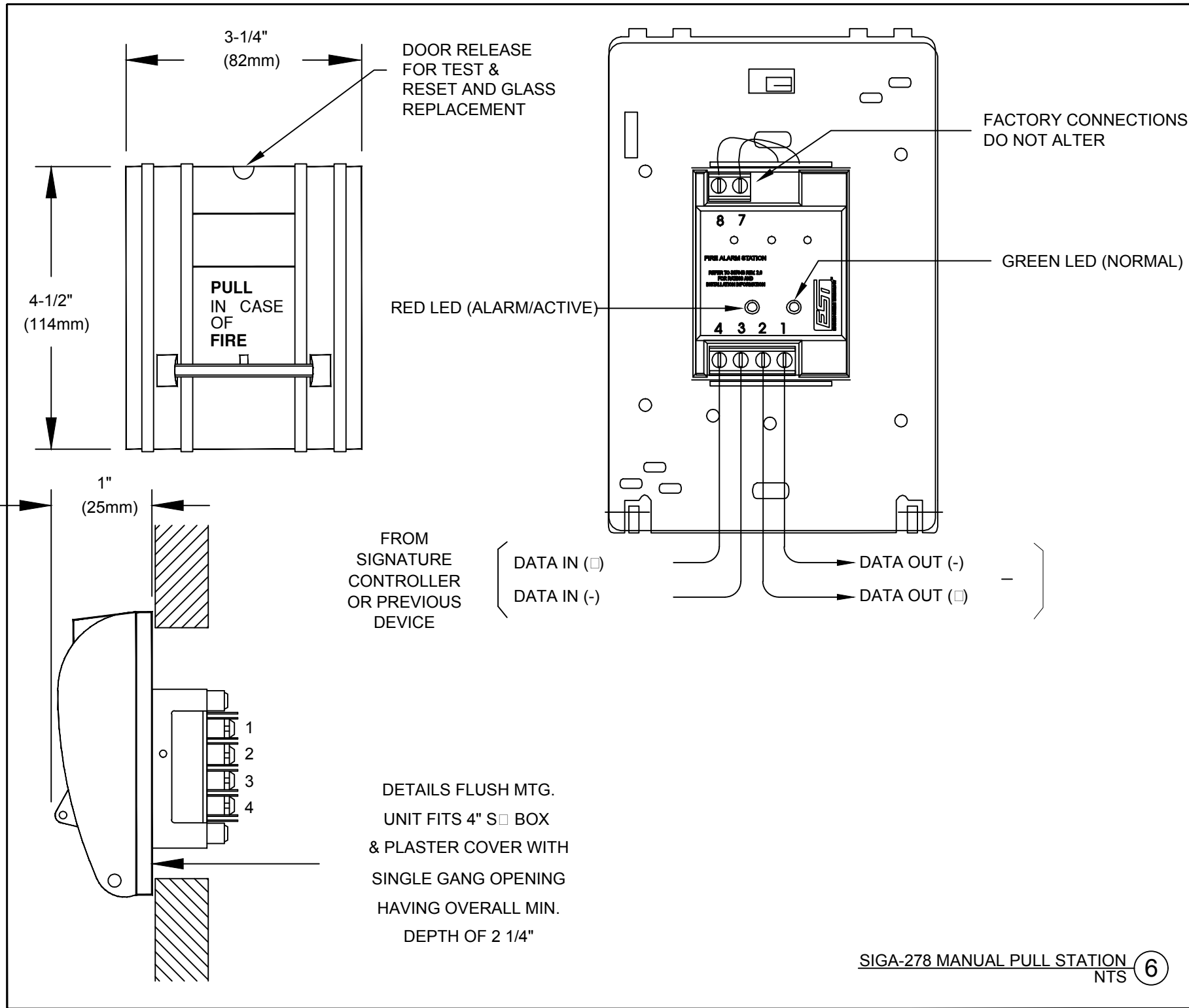
DEVICE DETAILS

FA3.00

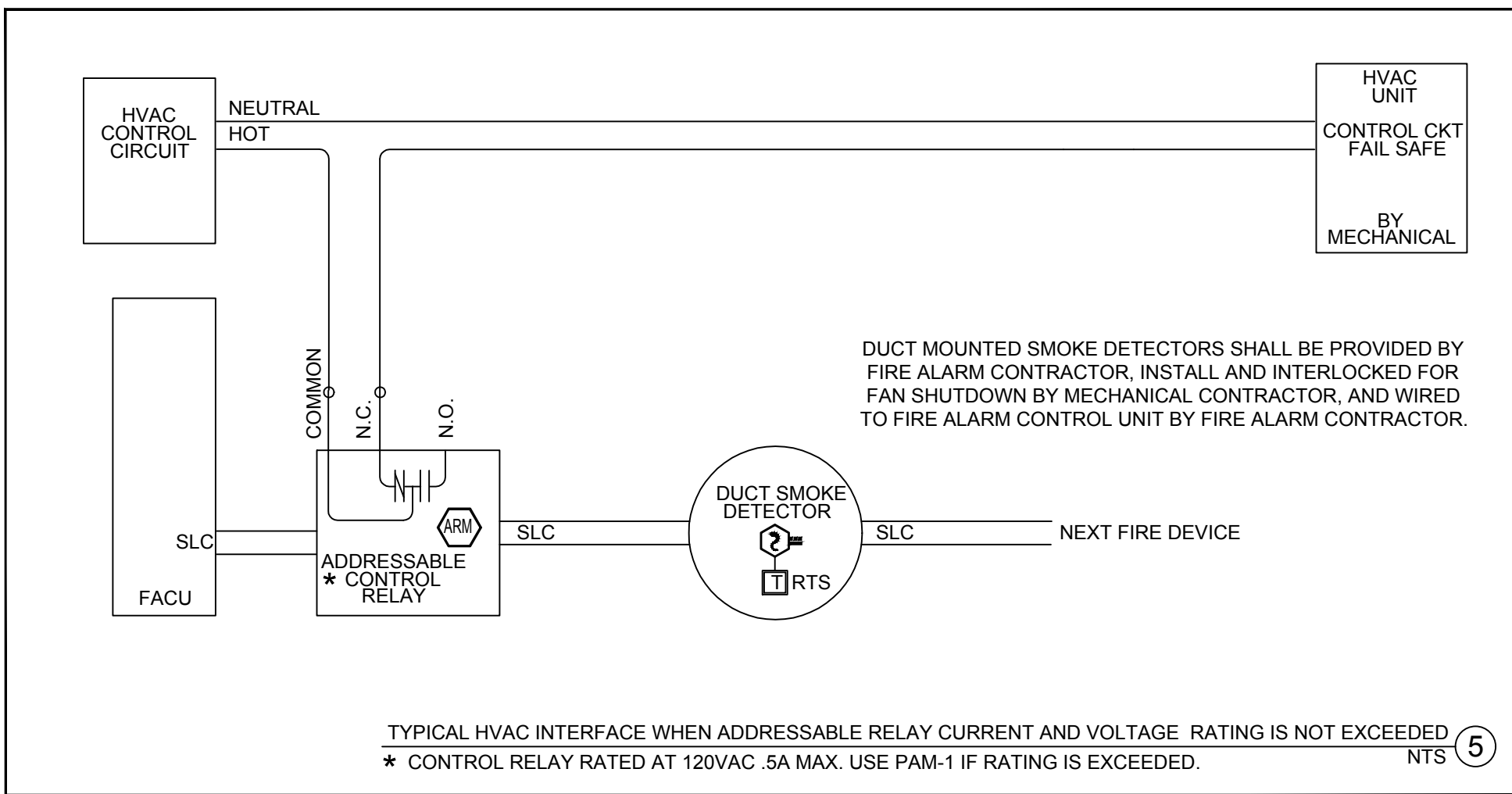


1 N.T.S.

EST3 FACU
NTS 1



SIGA-278 MANUAL PULL STATION
NTS 6



TYPICAL HVAC INTERFACE WHEN ADDRESSABLE RELAY CURRENT AND VOLTAGE RATING IS NOT EXCEEDED
* CONTROL RELAY RATED AT 120VAC, 5A MAX. USE PAM-1 IF RATING IS EXCEEDED.

NTS 5

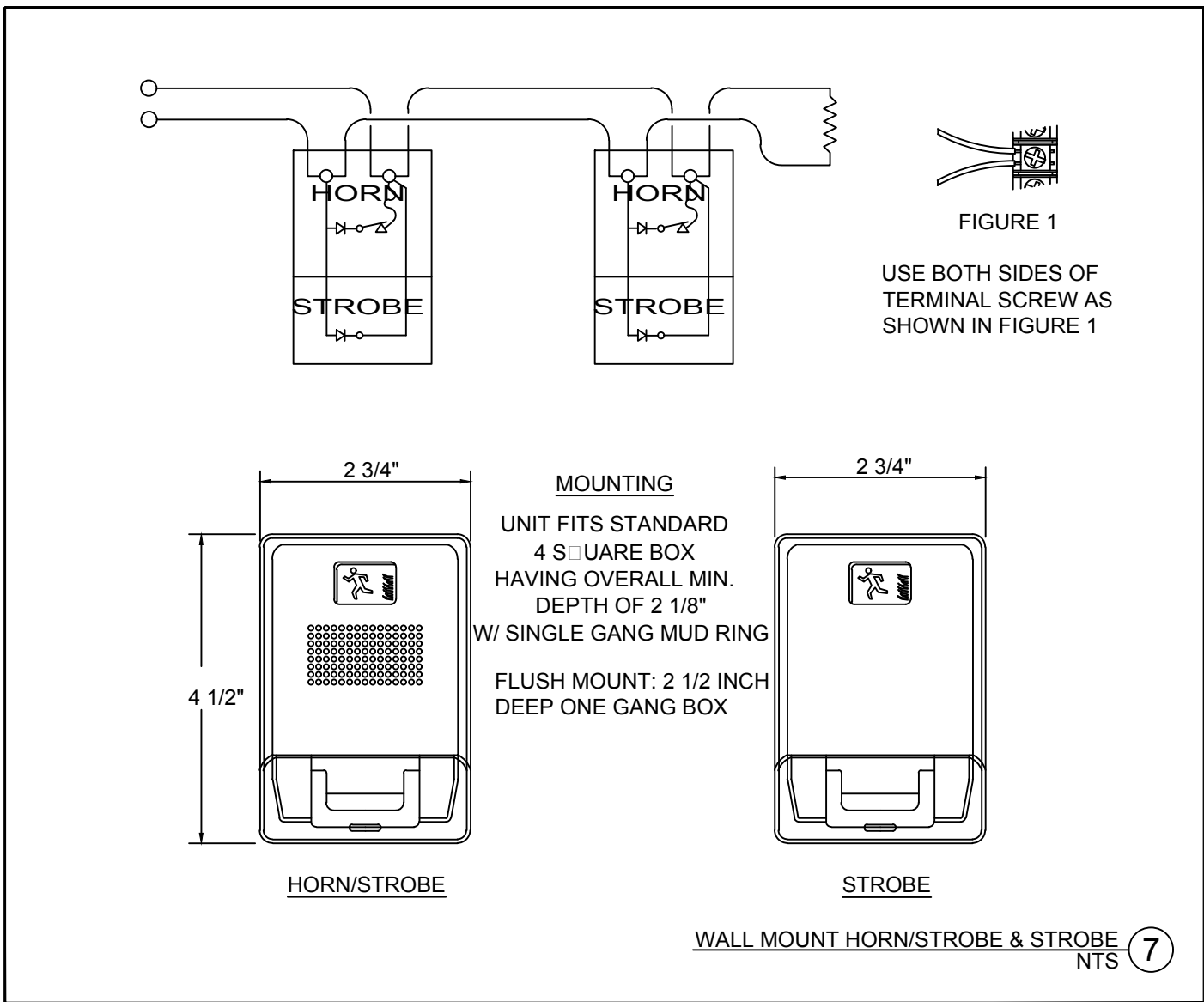
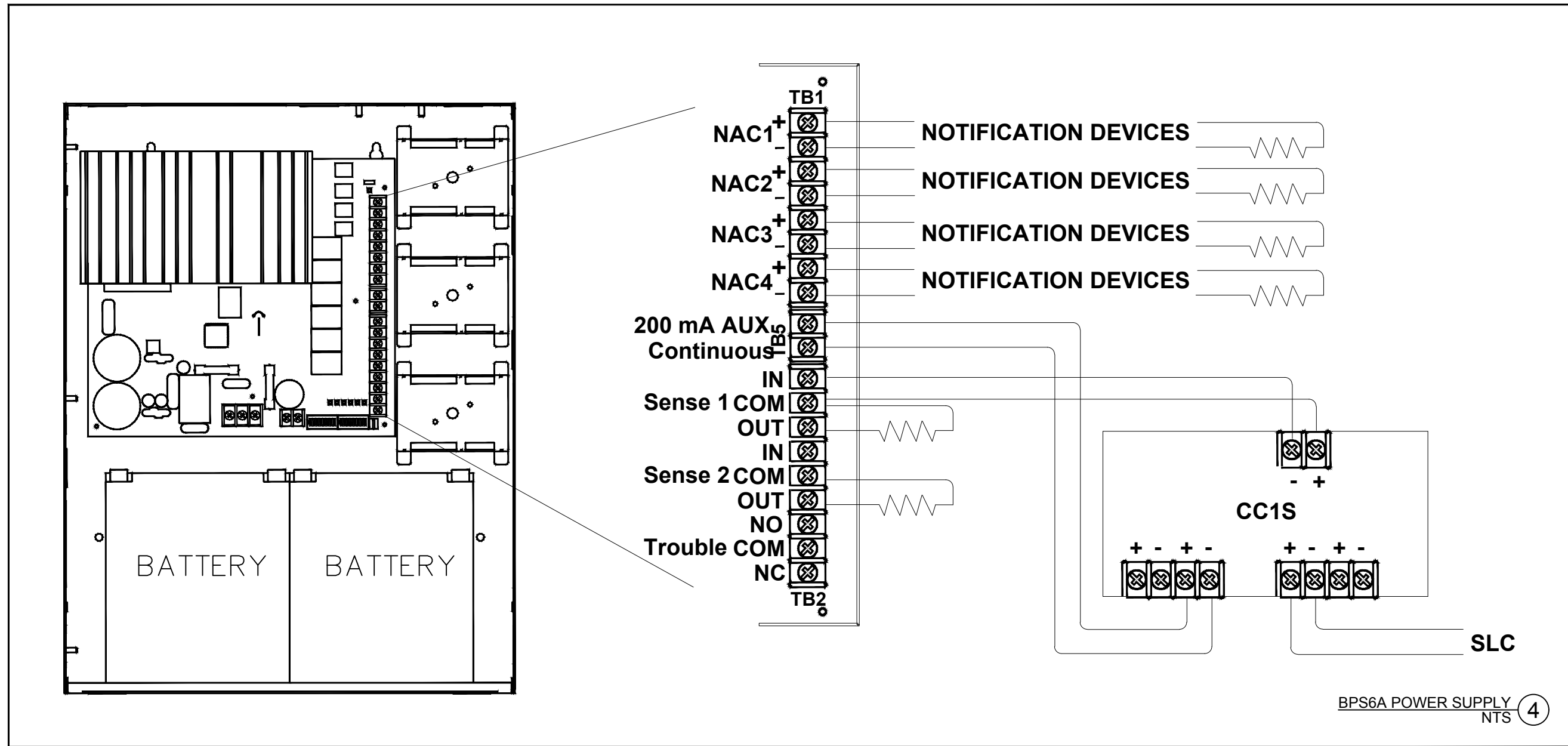


FIGURE 1
USE BOTH SIDES OF
TERMINAL SCREW AS
SHOWN IN FIGURE 1

WALL MOUNT HORN/SSTROBE & STROBE
NTS 7



BPS6A POWER SUPPLY
NTS 4

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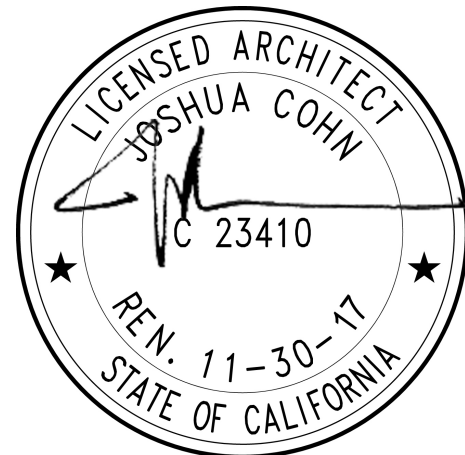
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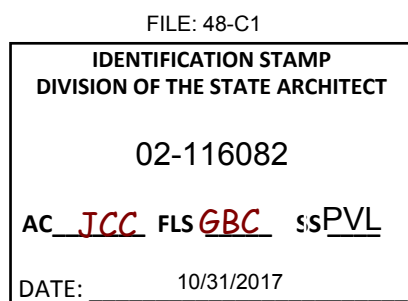
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CALCULATIONS
AND RISER
DIAGRAM

FA4.00

EST Voltage Drop/ Power Supply - Battery Calculations

EST SM		PS #1		VOLT DROP COMMON PARAMETERS						
Life Safety & Communications		Depicted Battery Voltage per UL Product Listing		20.4 Volts						
		Wire Resistance		Wire Size 12 AWG						
				2.05 ohm/Kft						
	Type	Device current @ 24 VDC	NAC #1		NAC #2		NAC #3		NAC #4	
			ity	Current	ity	Current	ity	Current	ity	Current
Strobes	Wall Mount	15cd	0	0.030	0	0	0	0	0	0
	GL1	30cd	0	0.040	0	0	0	0	0	0
		75cd	0	0.115	0	0	0	0	0	0
		110cd	0	0.200	0	0	0	0	0	0
		15cd	0	0.059	3	0.177	0	0	0	0
	G1-CVM	30cd	0	0.065	2	0.164	0	0	0	0
		75cd	0	0.152	0	0	0	0	0	0
		110cd	0	0.219	0	0	0	0	0	0
		15cd	0	0.063	0	0	0	0	0	0
	Ceiling Mount	30cd	0	0.060	0	0	0	0	0	0
		75cd	0	0.168	0	0	0	0	0	0
		110cd	0	0.240	0	0	0	0	0	0
15cd		0	0.060	0	0	0	0	0	0	
GC-CVM	30cd	0	0.060	0	0	0	0	0	0	
	75cd	0	0.168	0	0	0	0	0	0	
	110cd	0	0.240	0	0	0	0	0	0	
	15cd	0	0.060	0	0	0	0	0	0	
Weatherproof	30cd	0	0.060	0	0	0	0	0	0	
	75cd	0	0.168	0	0	0	0	0	0	
	110cd	0	0.240	0	0	0	0	0	0	
	15cd	0	0.060	0	0	0	0	0	0	
Wall Mount	30cd	0	0.060	0	0	0	0	0	0	
	75cd	0	0.168	0	0	0	0	0	0	
	110cd	0	0.240	0	0	0	0	0	0	
	15cd	0	0.060	0	0	0	0	0	0	
Horns	Wall Mount	44LF	Temporal	0.112	0	0	0	0	0	0
	WGR	Temporal	0.049	0	0	0	0	0	0	0
		15cd	0	0.040	0	0	0	0	0	0
		30cd	0	0.040	0	0	0	0	0	0
Wall Mount	GL1	75cd	0	0.125	0	0	0	0	0	0
	110cd	0	0.200	0	0	0	0	0	0	
	15cd	0	0.0812	0.162	0	2	0.162	0	0	0
	75cd	0	0.094	0	0	0	0	0	0	
Wall Mount	G1-HDVM	75cd	0	0.1615	0.805	0.644	3	0.483	0	0
	110cd	0	0.2030	0	0	2	0.406	0	0	
	15cd	0	0.059	0	0	0	0	0	0	
	30cd	0	0.108	0	0	0	0	0	0	
Ceiling Mount	GC-HDVM	75cd	0	0.168	0	0	0	0	0	0
	110cd	0	0.240	0	0	0	0	0	0	
	15cd	0	0.212	0	0	0	0	0	0	
	75cd	0	0.252	0	0	0	0	0	0	
Weatherproof	30cd	0	0.304	0	0	0	0	0	0	
	75cd	0	0.341	0	0	0	0	0	0	
	110cd	0	0.341	0	0	0	0	0	0	
	15cd	0	0.109	0	0	0	0	0	0	
Wall Mount	777	75cd	0	0.125	0	0	0	0	0	0
	110cd	0	0.199	0	0	0	0	0	0	0
	15cd	0	0.059	0	0	0	0	0	0	0
	30cd	0	0.108	0	0	0	0	0	0	0
Chime-Strobes	Wall Mount	75cd	0	0.085	0	0	0	0	0	0
	G1-CVM	75cd	0	0.174	0	0	0	0	0	0
	110cd	0	0.214	0	0	0	0	0	0	0
	15cd	0	0.044	0	0	0	0	0	0	0
Chime	Wall Mount	G1-C	Temporal	0.044	0	0	0	0	0	0
	Total Devices		7	9	7	0	0	0	0	0
	Circuit Load (A)		0.97	0.99	1.05	0.00	0.00	0.00	0.00	0.00
	Circuit Length (ft)		200	300	325	0	0	0	0	0
Voltage Drop (%)		0.79	1.21	1.40	0.00	0.00	0.00	0.00	0.00	
Voltage Drop (%)		3.89%	5.94%	6.86%	0.00%	0.00%	0.00%	0.00%	0.00%	

Total Devices	7	9	7	6
Circuit Load (A)	0.97	0.99	1.05	0
Circuit Length (ft)	200	300	325	0
Voltage Drop (V)	0.79	1.21	1.40	0.00
Voltage Drop (%)	3.89%	5.94%	6.86%	0.00%

POWER SUPPLY #1 VOLTAGE DROP CALCULATIONS NTS 4

Battery Calculations

Power Supply Location		PS-A ELEC RM 110	
HOURS OF SUPERVISION MINUTES OF ALARM		24 5	
STANDBY CURRENT		0.07	
ALARM CURRENT		3.003	
TOTAL		3.073	
Grand Total AMP Hrs required		2.3163	
7 AMP HOUR BATTERIES REQUIRED			

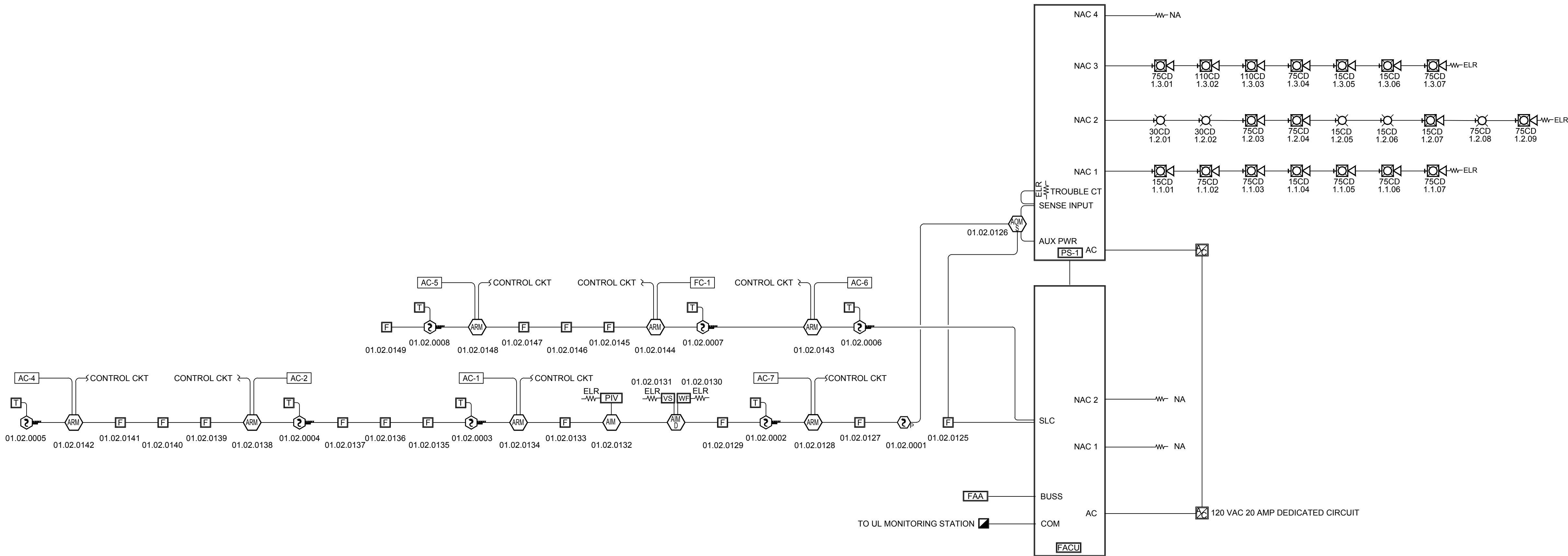
POWER SUPPLY #1 BATTERY CALCULATIONS NTS 3

EST3 PANEL LOAD CALCULATIONS

EST3		Battery Safety Factor		1.2	
Standby Time (Hrs)		24		EST3 Number: FACP-1	
Alarm Time (Mins)		5		Building/Area: Electrical Room	
FACP PANEL CALCULATIONS		Calculated Power Supply: 1.49		Amps	
Calculated Batteries		17.21		Ah	
Model Number	Description	Qty	Stdby Amps (mA)	Total Stdby Amps (mA)	Alarm Amps (mA)
EST3 CPU & Display					
3-CPU3	Central Processor Module	2	145.0	290.0	155.0
3-LCD	Std. Liquid Crystal Display Module	2	40.0	80.0	42.0
3-SSDC1	Signature Single Driver Controller (LRM)	0	0.0	0.0	0.0
3-MODCOM	Modem Communicator and Dialer	1	60.0	60.0	95.0
3-RS485B	RS485 Network Card, Copper Class B Audio	1	98.0	98.0	98.0
3-Fiber	Fiber EST3 Network	0	0.0	0.0	0.0
3-Fireworks	Fireworks Ethernet Network	0	0.0	0.0	0.0
3-PPS/M	Primary Power Supply/Charger	1	0.0	0.0	0.0
3-BPS/M	Booster Power Supply	0	50.0	0.0	50.0
3-BBCM	Booster Power Supply/Charger	0	70.0	0.0	70.0
3-Subtotal	Subtotal EST3 Panel Load		712.0	712.0	773.0
3-Power Supply	POWER SUPPLY REQUIRED		1.49	1.49	1.49
3-Batteries	BATTERIES REQUIRED		17.21	17.21	17.21
3-Total	Total		26.65	26.65	26.65

EST3 Life Safety Communications

BATTERY CALCULATIONS NTS 2



RISER DIAGRAM NTS 1

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2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

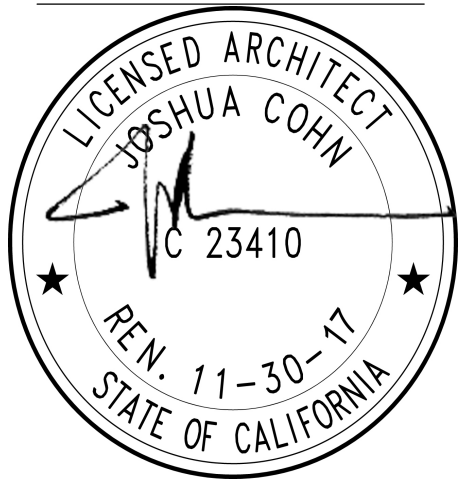
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PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

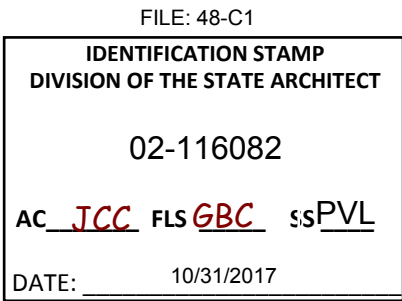
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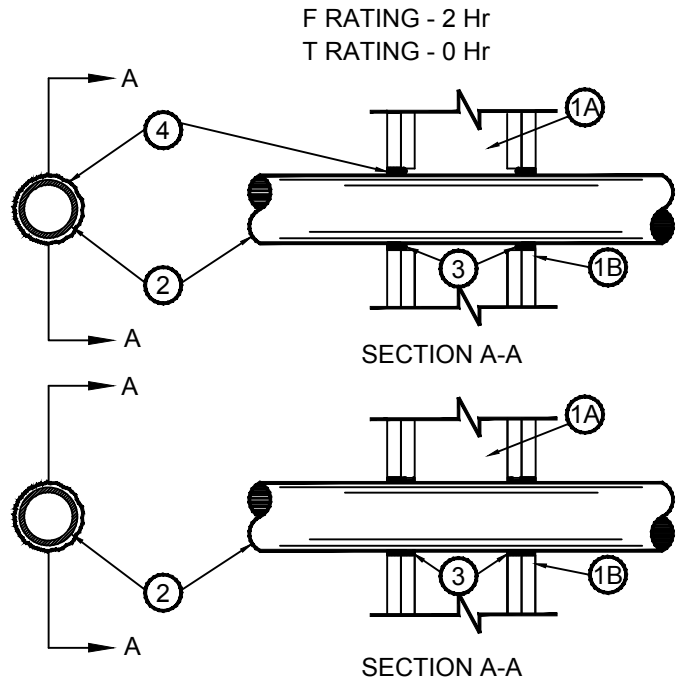
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FIRE STOP DETAILS

FA5.00

FIRE STOP DETAILS

SYSTEM No. W-L-1082



1. WALL ASSEMBLY - THE FIRE RATED GYPSUM WALL BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U4000 SERIES WALL AND PARTITION DESIGNS IN THE URL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNELS STUDS. WOOD STUDS TO CONSIST OF NUM 2 BY 4 INCHES LUMBER SPACED 16 INCHES O.C. STEEL STUDS TO BE MIN 3-1/2 INCHES WIDE AND SPACES MAX 24 INCHES O.C.

B. WALL BOARD GYPSUM - TWO LAYERS OF NOM 5/8 INCH THICK GYPSUM WALL BOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN DIAMETER OF OPENING IS 1-1/2 INCHES LARGER THAN THE OUTSIDE DIAMETER OF PIPE.

2. THROUGH-PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. AN ANNULAR SPACE OF 3/4 INCH IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

- A. STEEL PIPE - NOM 12 INCHES DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
- B. CONDUIT - NOM 6 INCHES DIAMETER (OR SMALLER) STEEL CONDUIT.
- C. CONDUIT - NOM 4 INCHES DIAMETER (OR SMALLER) STEEL ELECTRIC METALLIC TUBING.
- D. COPPER TUBING - NOM 6 INCHES DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
- E. COPPER PIPE - NOM 6 INCHES DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

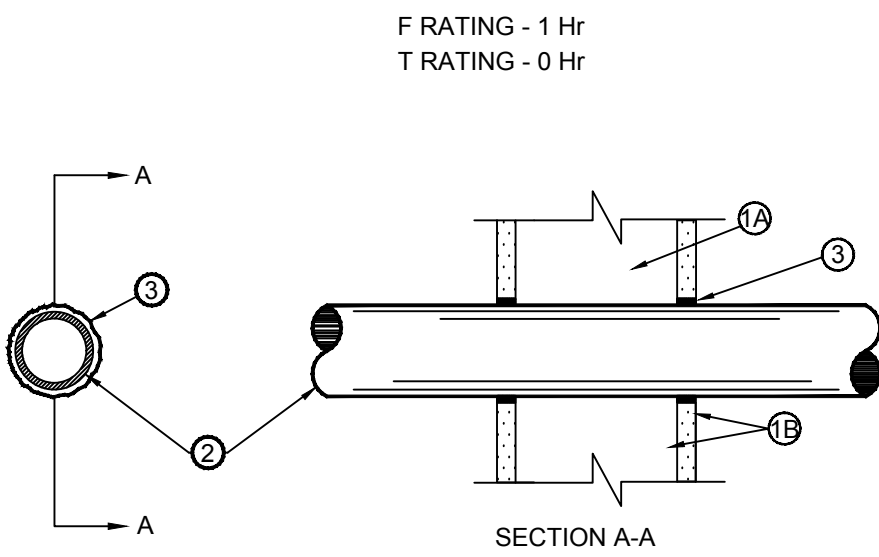
3. FORMING MATERIAL - NOM 1 INCH DIAMETER POLYETHYLENE BACKER ROD FRICTION FITTED INTO OPENING AS A PERMANENT FORM. FORMING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

4. FILL, VOID OR CAVITY MATERIAL - SEALANT - MINIMUM 5/8 INCH THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL ASSEMBLY.

MINNESOTA MINING & MANUFACTURING CORPORATION - FB-2000
*BEARING THE URL CLASSIFICATION MARKING

WALL PENETRATION DETAIL 1

SYSTEM No. W-L-1084



1. WALL ASSEMBLY - THE FIRE RATED GYPSUM WALL BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U4000 SERIES WALL AND PARTITION DESIGNS IN THE URL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNELS STUDS. WOOD STUDS TO CONSIST OF NUM 2 BY 4 INCHES LUMBER SPACED 16 INCHES O.C. STEEL STUDS TO BE MIN 3-5/8 INCHES WIDE AND SPACES MAX 24 INCHES O.C.

B. WALL BOARD GYPSUM - NOM 5/8 INCH THICK GYPSUM WALL BOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN DIAMETER OF OPENING IS 1-1/2 INCHES LARGER THAN THE OUTSIDE DIAMETER OF PIPE.

2. THROUGH-PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. AN ANNULAR SPACE OF 3/4 INCH IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

- A. STEEL PIPE - NOM 12 INCHES DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
- B. CONDUIT - NOM 6 INCHES DIAMETER (OR SMALLER) ELECTRIC METALLIC TUBING OR STEEL CONDUIT.
- C. COPPER TUBING - NOM 6 INCHES DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
- D. COPPER PIPE - NOM 6 INCHES DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. FILL, VOID OR CAVITY MATERIAL - SEALANT - MINIMUM 5/8 INCH THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL ASSEMBLY.

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WALL PENETRATION DETAIL 2

FIRE STOP DETAILS
NTS 1

GENERAL NOTES

1. UPRIGHT SPRINKLERS ARE LOCATED 1 FOOT BELOW CEILINGS, AT AN ELEVATION OF 17 FEET.
2. RETURN BENDS HAVE BEEN PROVIDED FOR ALL PENDENT SPRINKLERS.
3. NEW END OF LINE RESTRAINTS SHALL BE PROVIDED ON ALL END OF LINE PENDENT SPRINKLERS.
4. DROPS TO PENDENT SPRINKLERS ARE APPROXIMATELY 7 FEET.
5. SEISMIC BRACING HAS BEEN PROVIDED ON THE 2 1/2" MAIN AND HAVE BEEN OBSERVED TO BE INSTALLED SATISFACTORILY.
6. NEW AIR RELEASE VENTS SHALL BE PROVIDED ON ALL MAINS, AS REQUIRED BY THE 2016 OF NFPA 13.
7. A NEW PRESSURE RELIEF VALVE SHALL BE PROVIDE, AS REQUIRED BY SECTION 7.1.2.1 OF NFPA 13, 2016 EDITION.
8. ALL EXTERIOR SPRINKLERS HAVE BEEN OBSERVED TO BE RUSTY AND DIRTY. EXTERIOR SPRINKLERS SHALL BE REPLACED WITH NEW SPRINKLER SPRINKLERS THAT ARE MORE EQUIPT TO ENDURE EXTERIOR CONDITIONS.
9. THE BUILDING'S MAIN DRAIN HAS BEEN OBSERVED TO DRAIN TO AN EXTERIOR COVERED PATIO. PER CALIFORNIA REQUIREMENTS, THIS DRAIN SHALL BE RENOVATED TO DRAIN DIRECTLY TO A LANDSCAPED AREA, OR MEANS SHALL BE PROVIDED TO ALLOW CAPABILITY OF THE SYSTEM TO DRAIN TO A LANDSCAPED AREA. DRAINAGE TO A LANDSCAPED AREA MAY OCCUR THROUGH MEANS OF CONNECTING A THREADED FITTING TO THE DRAIN OUTLET, AND A HOSE THAT IS PROVIDED IN THE FIRE SPRINKLER RISER ROOM.
10. CLASSROOMS, OFFICES, RESTROOMS AND SIMILAR AREAS ARE CLASSIFIED AS LIGHT HAZARD AND SHALL BE HYDRAULICALLY DESIGNED, WET-PIPE SYSTEM PROVIDING A MINIMUM DENSITY OF 0.10 GPM OVER THE REMOTE 900 SQUARE FEET (REDUCED FROM 1,500 SQUARE FEET WITH THE USE OF QUICK RESPONSE SPRINKLERS) WITH A COMBINED INSIDE/OUTSIDE HOSE STREAM ALLOWANCE OF 100 GPM.
11. MECHANICAL AREAS ARE CLASSIFIED AS ORDINARY GROUP 1 HAZARD IN ACCORDANCE WITH NFPA 13 AND SHALL BE A HYDRAULICALLY DESIGNED, WET-PIPE SYSTEM PROVIDING A MINIMUM DENSITY OF 0.15 GPM OVER THE REMOTE 1,500 SQUARE FEET WITH A COMBINED INSIDE/OUTSIDE HOSE STREAM ALLOWANCE OF 250 GPM.
12. WATER SUPPLY INFORMATION FROM THE VACAVILLE FIRE DEPARTMENT WAS RECEIVED 10/19/16 AT THE FIRE HYDRANTS LOCATED OUTSIDE THE BUILDING; 91 PSI STATIC PRESSURE, 74 PSI RESIDUAL PRESSURE FLOWING 4,500 GPM CONSISTENT WITH THE NEW WATERFLOW INFORMATION. BASED ON THIS WATER SUPPLY INFORMATION, THE AVAILABLE WATER IS CLEARLY FAR IN EXCESS OF THE REQUIRED DEMAND FROM THE FIRE SPRINKLERS, HOSE STREAM REQUIREMENTS, AND FIREFLOW REQUIREMENTS.
13. SEE FPD.01 FOR UNDERGROUND INFORMATION, BACKFLOW PREVENTER, AND FIRE DEPARTMENT CONNECTIONS.
14. ARCHITECT OF RECORD, MECHANICAL ENGINEER & FIRE PROTECTION CONTRACTOR (C-16) SHALL AFFIX THEIR SEAL, STAMP AND SIGN ALL SUBMITTALS, OR PROVIDE DOCUMENTATION PER DSA IR A-018.
15. PROVIDE A NEW SPARE SPRINKLER CABINET, SPRINKLER WRENCH, AND NO FEWER THAN 6 SPARE SPRINKLERS MATCHING THE TYPES AND TEMPERATURE RATING IN EACH PROTECTED AREA FOR SYSTEMS LESS THAN 300 SPRINKLERS (12 SPARE SPRINKLERS FOR SYSTEMS 300 TO 1,000 SPRINKLERS) IN AN APPROVED LOCATION BY OWNER.
16. THE SPRINKLER FLOW SWITCH SHALL BE TESTED TO CONFIRM THAT WHEN THE INSPECTOR'S TEST VALVE IS ACTIVATED AN ALARM WILL SOUND NO MORE THAN 90 SECONDS AFTER INITIAL FLOW (WITNESSED BY THE PROJECT INSPECTOR).
17. SIGNAGE HAS BEEN BE PROVIDED AS REQUIRED, INCLUDING "RISER ROOM IDENTIFICATION".
18. PERMANENT HYDRAULIC CALCULATIONS DESIGN DATA HAZARD SHALL BE ATTACHED TO THE RISER.
19. EXISTING FIRE ALARM SYSTEM INTERCONNECTION TO THE WATERFLOW VALVE & TAMPER VALVES SHALL REMAIN.
20. SPRINKLER CONTRACTOR SHALL COMPLETE AND SIGN CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR ABOVE GROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD TO DSA FOR FILING IN PROJECT RECORDS.
21. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD COORDINATION AND ROUTING/MODIFICATION TO AVOID OBSTRUCTION WITH OTHER TRADES AS REQUIRED TO INSTALL A COMPLETE OPERATIONAL SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 (2016 EDITION), DSA, CITY OF VACAVILLE FIRE DEPARTMENT AND THE SPECIFICATIONS, WHETHER REPRESENTED ON THESE PLANS OR NOT AT NO ADDITIONAL COST TO OWNER.
22. CONTRACTOR SHALL VERIFY AS-BUILT CONDITIONS ON SITE, AND NOTIFY OWNER OF ANY DEFICIENCIES, PRIOR TO FABRICATION AND/OR INSTALLATION.
23. THE SPRINKLER SYSTEM INSTALLATION AND MODIFICATION SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES. THE GENERAL CONTRACTOR'S SUBMITTED SCHEDULE SHALL BE FOLLOWED.
24. REMOVAL AND REPLACEMENT OF EXISTING CEILINGS, WHEREVER NECESSARY FOR INSTALLATION AND OR MODIFICATION OF THE SPRINKLER SYSTEM, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CEILINGS AFFECTED DURING INSTALLATION OR MODIFICATION OF THE SPRINKLER SYSTEM SHALL BE REFINISHED WITH NEW AT NO COST TO THE OWNER.
25. DELIVERY OF ALL MATERIALS AND EQUIPMENT TO THE JOB SITE SHALL BE SCHEDULED TO ASSURE COMPLIANCE WITH THE PREDETERMINED CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND HANDLING OF ALL MATERIALS AND EQUIPMENT ON THE JOB SITE, INCLUDING FURNISHING OF ANY STORAGE FACILITIES OR STRUCTURE REQUIRED.
26. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, SEALING, PATCHING, AND PAINTING REQUIRED FOR INSTALLATION AND OR MODIFICATION OF THE SPRINKLER SYSTEM. ALL PENETRATIONS SHALL BE SEALED WITH NONCOMBUSTIBLE MATERIAL FOR THOSE PENETRATIONS THAT ARE THROUGH FIRE-RATED WALLS, FLOORS OR CEILINGS, SEAL.
27. CHANGES TO THE APPROVAL SET OF DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND DSA FOR APPROVAL. ADDING OR DELETING SPRINKLERS, MODIFYING PIPE SIZES, AND SIGNICANT CHANGES TO PIPE ROUTING SHALL BE SUBMITTED FOR APPROVAL. MINOR DEVIATIONS IN THE LOCATION OF SPRINKLERS AND PIPE ROUTING NEED NOT BE SUBMITTED FOR APPROVAL BUT SHALL BE RECORDED AND INCORPORATED INTO THE AS-BUILT DRAWINGS.
28. UPON ACCEPTANCE TESTING OF THE FIRE SPRINKLER SYSTEM, CONTRACTOR SHALL VERIFY A U.L. LISTED CENTRAL STATION IS MONITORING THE SYSTEM.

PROTECTION AREA

EXISTING BUILDING: 16,441 SQUARE FEET
COVERED WALKWAYS: 5,088 SQUARE FEET

INDEX OF DRAWINGS

FP1.0 COVER SHEET, WATERFLOW DATA & SEISMIC BRACING CALCULATIONS
FP1.1 SITE PLAN, RISER & BACKFLOW PREVENTER DETAILS
FP2.0 FIRE PROTECTION SYSTEM FLOOR PLAN
FP3.0 DETAILS SHEET

PROJECT DESCRIPTION

THE FIRE SPRINKLER SYSTEM LOCATED IN THIS FACILITY HAS BEEN FIELD INVESTIGATED AND HAS BEEN OBSERVED TO BE IN COMPLIANT WITH THE 1996 EDITION OF NFPA 13, WHICH IS THE STANDARD TO WHICH THE SYSTEM WAS DESIGNED. HOWEVER, THERE ARE RENOVATIONS THAT ARE REQUIRED IN ORDER TO MEET THE 2016 EDITION OF NFPA 13. REQUIRED RENOVATIONS ARE AS FOLLOWS:

1. ALL THE ARM-OVERS EXCEEDING 36 INCHES IN LENGTH ON THE FIRE SPRINKLER SYSTEM WILL BE PROVIDED END OF LINE RESTRAINTS. IN TOTAL, APPROXIMATELY 150 NEW END OF LINE RESTRAINTS ARE REQUIRED TO BE INSTALLED IN ORDER TO MEET THE 2016 EDITION OF NFPA 13.
2. AN AIR RELEASE VENT IS REQUIRED TO BE INSTALLED. DUE TO THE CONFIGURATION OF THIS FIRE SPRINKLER SYSTEM, WE RECOMMEND THAT ONE (1) AIR RELEASE VENT BE PROVIDED ON EACH LONG PORTION OF THE 2 1/2" INCH MAIN. A TOTAL OF TWO (2) AIR RELEASE VENTS WILL BE INSTALLED.
3. EXTERIOR FIRE SPRINKLERS ALONG THE COVERED HALLWAYS WERE OBSERVED TO BE RUSTY AND REQUIRE REPLACEMENT. THERE ARE A TOTAL OF 43 EXTERIOR SPRINKLERS THAT WILL REQUIRE REPLACEMENT.
4. THE FIRE SPRINKLER DRAIN AND INSPECTORS TEST VALVE OBSERVED TO DISCHARGE TO THE COVERED WALKWAYS. THE DRAIN AND INSPECTORS TEST VALVE SHALL BE RENOVATED TO DISCHARGE TO A LANDSCAPED AREA OR A HOSE CONNECTION SHALL BE PROVIDED ON THE SYSTEM SO THAT DRAINAGE CAN BE EXTENDED TO A LANDSCAPED AREA. FOR MORE INFORMATION, REFER TO GENERAL NOTES.

5. A NEW PRESSURE RELIEF VALVE SHALL BE PROVIDE, AS REQUIRED BY SECTION 7.1.2.1 OF NFPA 13, 2016 EDITION.

LEGEND

- PENDENT SPRINKLER
- UPRIGHT SPRINKLER
- 1" SPRINKLER PIPING (SIZE INDICATED)
- 2-WAY SEISMIC BRACE
- / HANGER
- // END OF BRANCH LINE RESTRAINT
- ⊗ SPRINKLER RISER
- ⊞ HYDRAULIC REFERENCE NODE NUMBER
- REMOTE AREA OF APPLICATION
- ⊥ WATERFLOW SWITCH
- ⊞ BUTTERFLY VALVE WITH TAMPER SWITCH
- N CHECK VALVE
- RN RISER NIPPLE
- PIPE TEE

OWNER:

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

CA ARCHITECTS
475 Gate Five Road, Suite 107
Sausalito, CA 94965
T 415.331.7655
F 415.331.7656

PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

ZARI
CONSULTING GROUP
FIRE PROTECTION
ENGINEERS
755 BAYWOOD DRIVE
PETALUMA, CA 94954
(888) 779-3397

SHEET LEGEND:

WATERFLOW TEST DATA

Utilities Department
650 Merchant Street
Vacaville, CA 95688
707-469-6400
707-469-6480

Date: October 19, 2016

To: Foulk Civil Engineering, Inc.
4777 Mangels Blvd.
Fairfield, CA 94534

From: Miguel Medina

Subject: Water distribution system pressures and flows in the 12-inch water main
near Orange Tree Circle
80 Orange Tree Circle (APN 0134-343-020)

Project Name
& Location:

Contact: Brad Foulk

Telephone: (707) 864-0784, Fax (707) 864-0793

We estimate the water distribution system conditions for the looped 12-inch water main near 80 Orange Tree Circle as follows:

System Static Pressure:

91 pounds per square inch (PSI)

Fireflow & Residual Pressure:

4,500 gallons per minute (GPM) @ 74 PSI residual.

Comments:

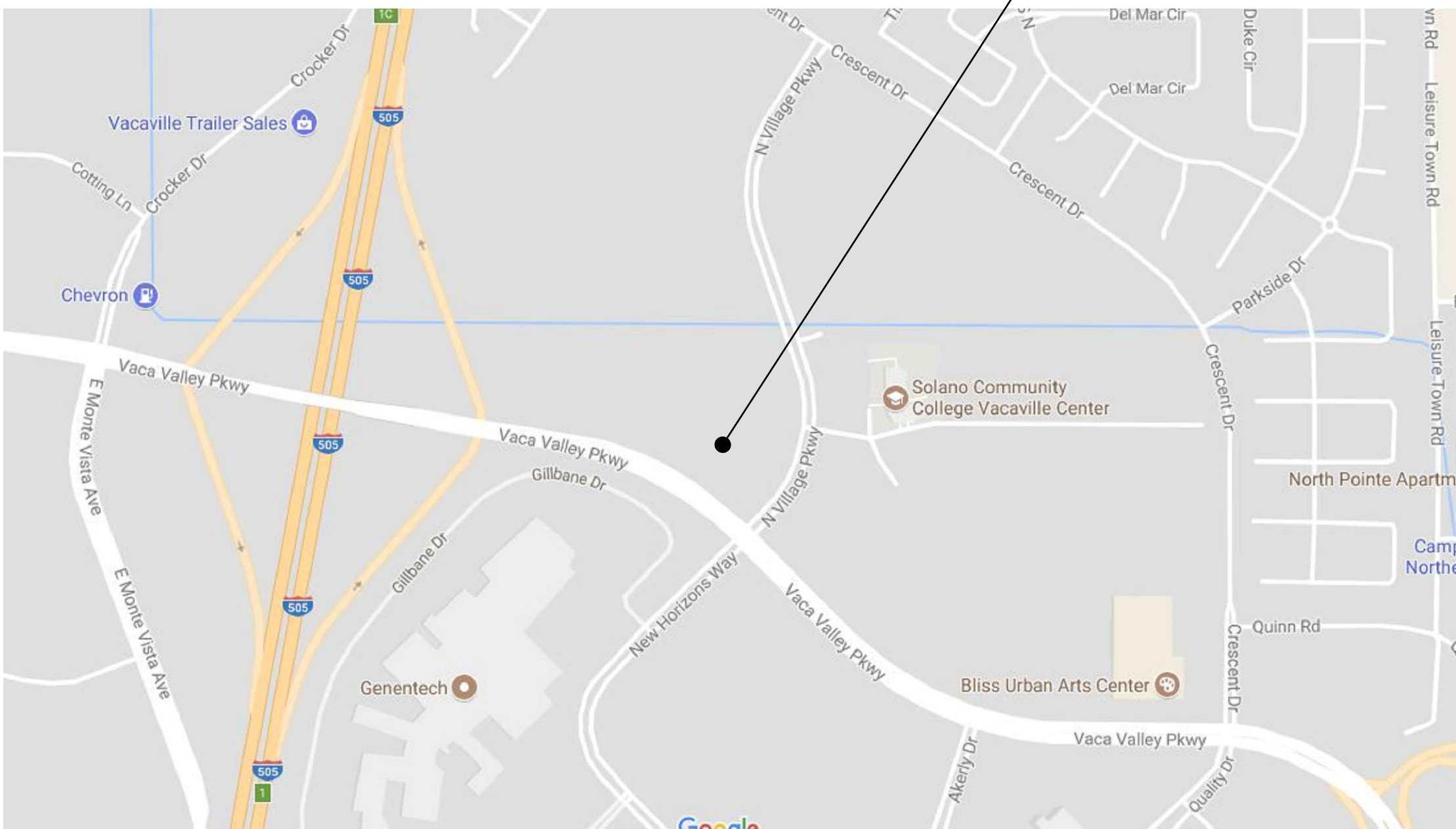
Please note that this information is calculated using the City of Vacaville's water distribution system computer model for the pipe network node at the intersection noted. You will need to estimate the losses through the service lateral, any backflow devices or appurtenances, on-site piping and elevation gain. This would be included in your engineer's calculations to the Fire Department.

Faxed ☐ or E-Mailed ☒

Pc:

File # 205-13

PROJECT SITE



VICINITY MAP
SCALE: NTS

STAMP

FILE: 48-C1
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-116082
AC, TCC, FLS, GBC, ssPVL
DATE: 10/31/2017

ISSUE/REVISION:

NO. DATE: DESCRIPTION:

04/25/2017 ISSUE FOR DD 100%

06/06/2017 ISSUE FOR CD 50%

06/30/2017 ISSUE FOR CD 60%

07/20/2017 ISSUE FOR CD 100%

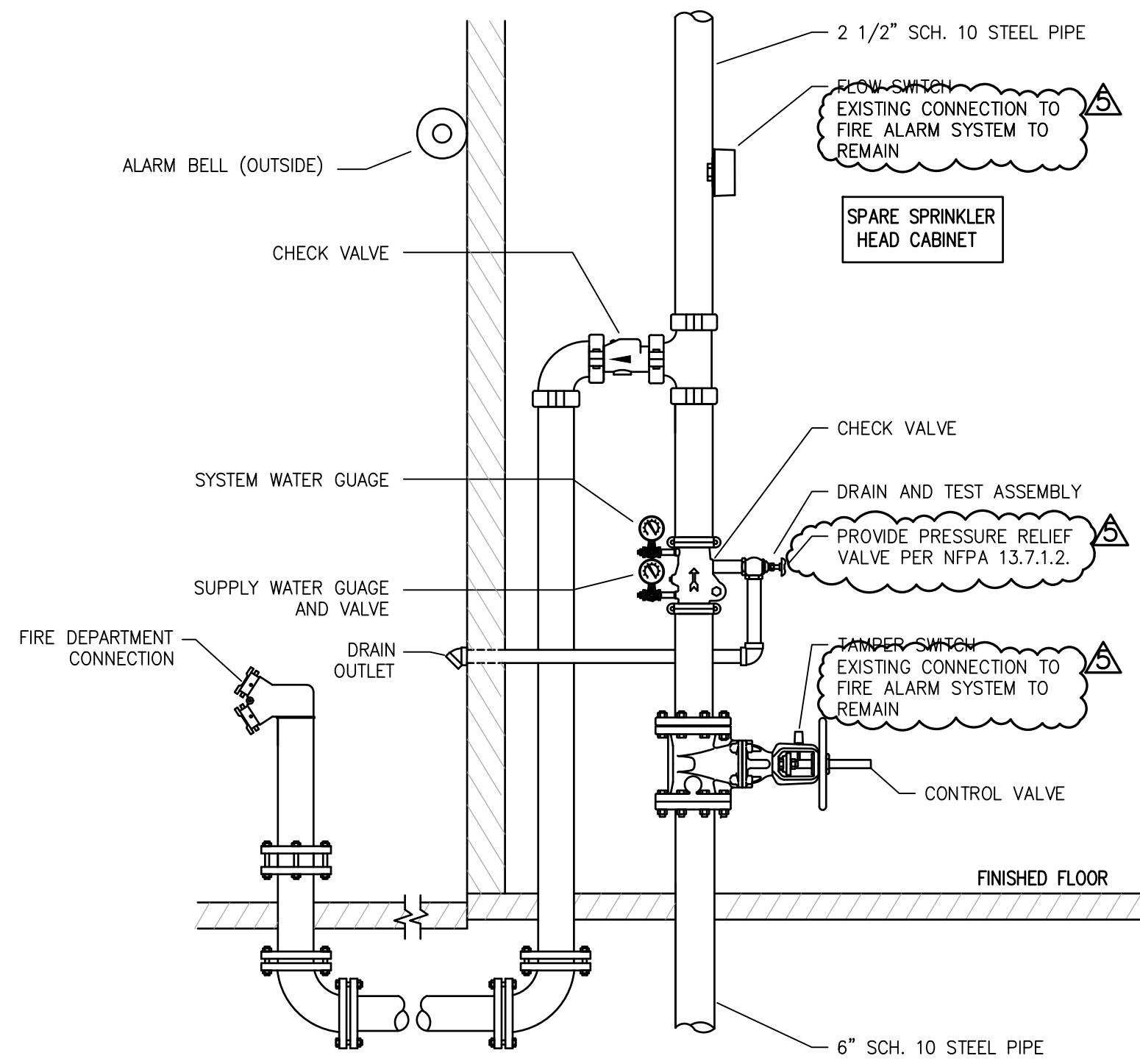
10/04/2017 REVIEW COMMENTS

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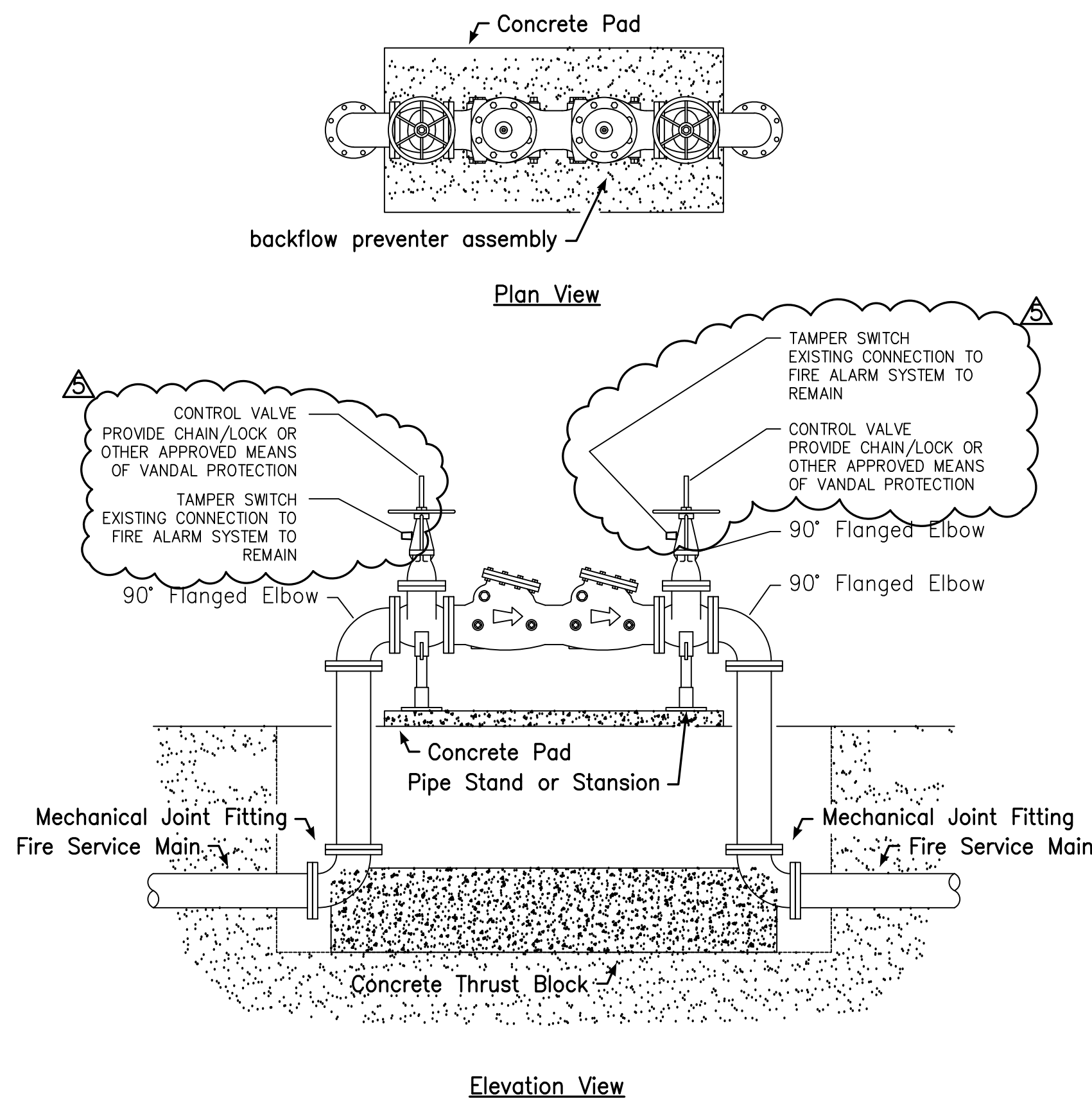
FIRE PROTECTION
SYSTEM COVER
SHEET

SCALE: N/A
DATE: 18-JULY-17
PROJECT NO:
PERMIT APPLICATION NO.:
SHEET NUMBER:

FP1-0



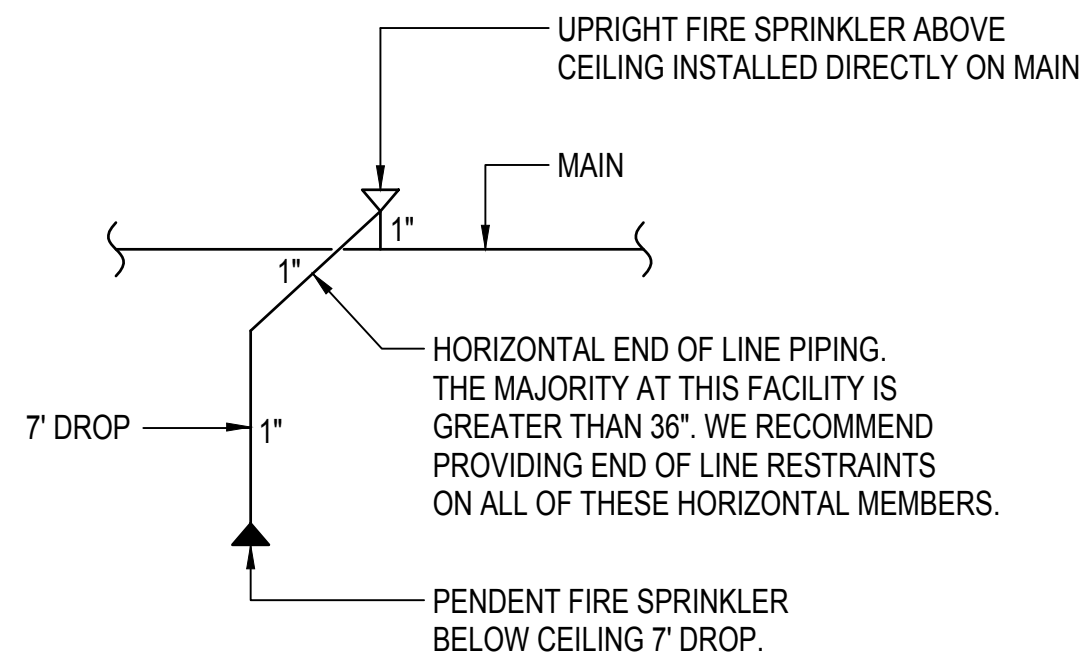
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NOT TO SCALE



2 BACKFLOW PREVENTER ASSEMBLY DETAIL
NOT TO SCALE



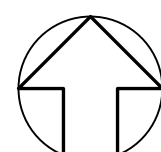
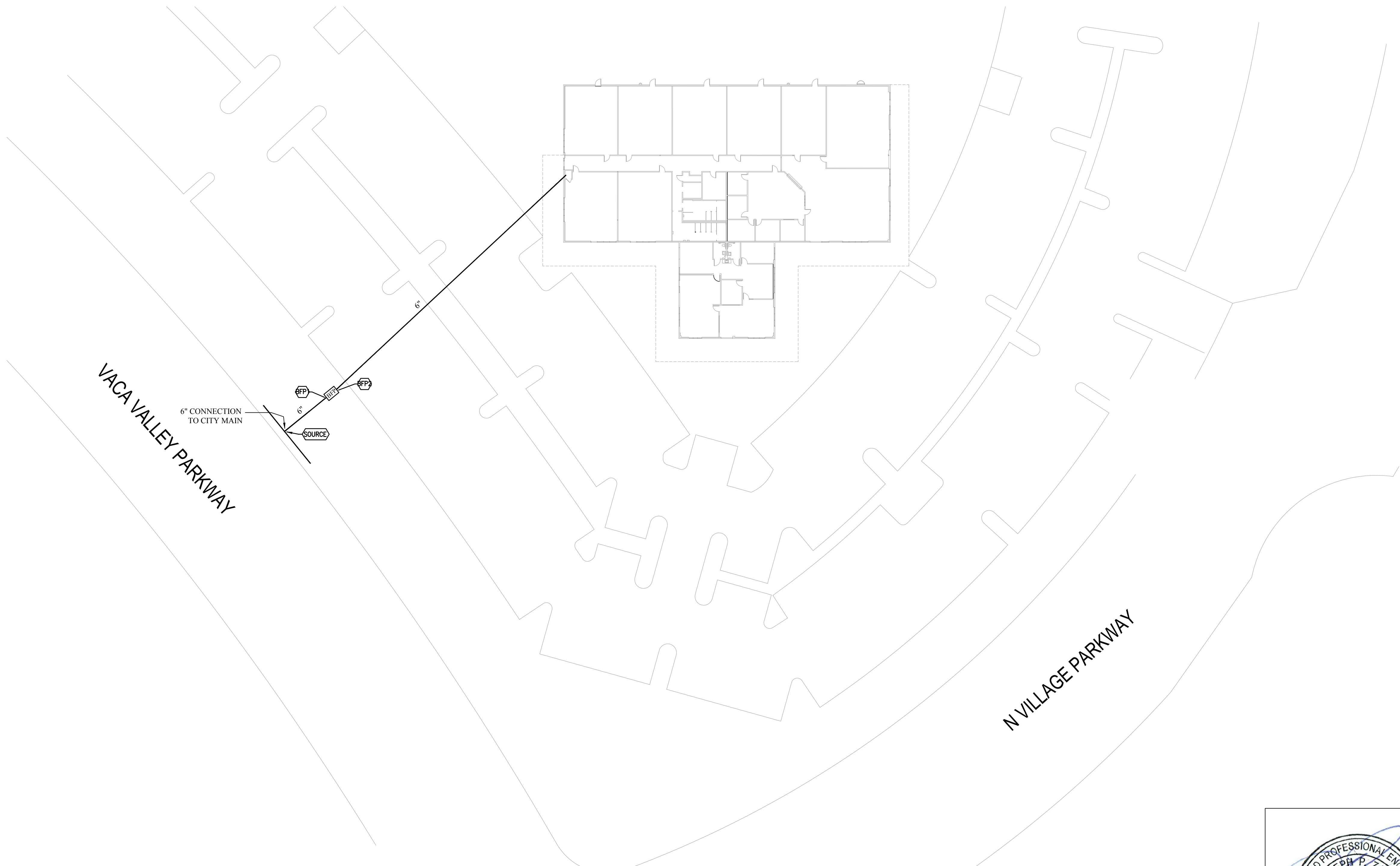
3 BACKFLOW PREVENTER PICTURE
NOT TO SCALE



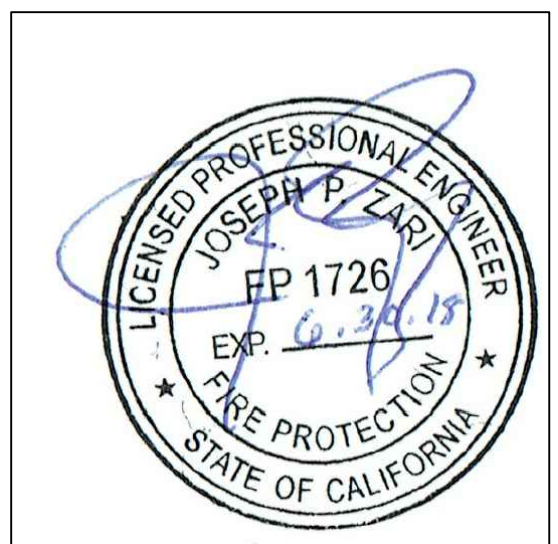
4 TYPICAL RETURN BENDS DETAIL
NOT TO SCALE



5 FIRE DEPARTMENT CONNECTION (FDC)
NOT TO SCALE



4 FIRE PROTECTION SYSTEM SITE PLAN
SCALE: 1"= 30'-0"



OWNER:
Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

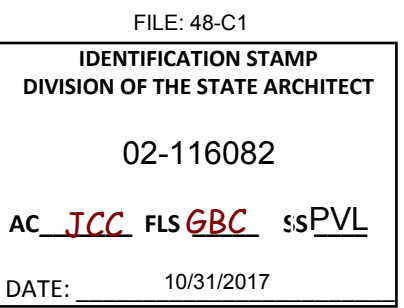
ARCHITECT:
CA ARCHITECTS
475 Gate Five Road, Suite 107
Sausalito, CA 94965
T 415.331.7655
F 415.331.7656

PROJECT:
Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:
ZARI
CONSULTING GROUP
FIRE PROTECTION
ENGINEERS
755 BAYWOOD DRIVE
PETALUMA, CA 94954
(888) 779-3397

SHEET LEGEND:

STAMP



ISSUE /REVISION:	
NO.	DATE: DESCRIPTION:
04/25/2017	ISSUE FOR DD 100%
06/06/2017	ISSUE FOR CD 50%
06/30/2017	ISSUE FOR CD 60%
07/20/2017	ISSUE FOR CD 100%
10/04/2017	REVIEW COMMENTS

SHEET TITLE:

FIRE PROTECTION
SYSTEM SITE PLAN
& DETAILED

SCALE: AS NOTED
DATE: 18-JULY-17
PROJECT NO:
PERMIT APPLICATION NO.:
SHEET NUMBER:

FP1-1

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

PROJECT:
Vacaville Classroom Building
(Annex) Renovation Project



FIRE PROTECTION
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755 BAYWOOD DRIVE
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(888) 779-3397

STAMP

FILE: 48-C1

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

02-116082

AC JCC FLS GBC ss PVL

DATE: 10/31/2017

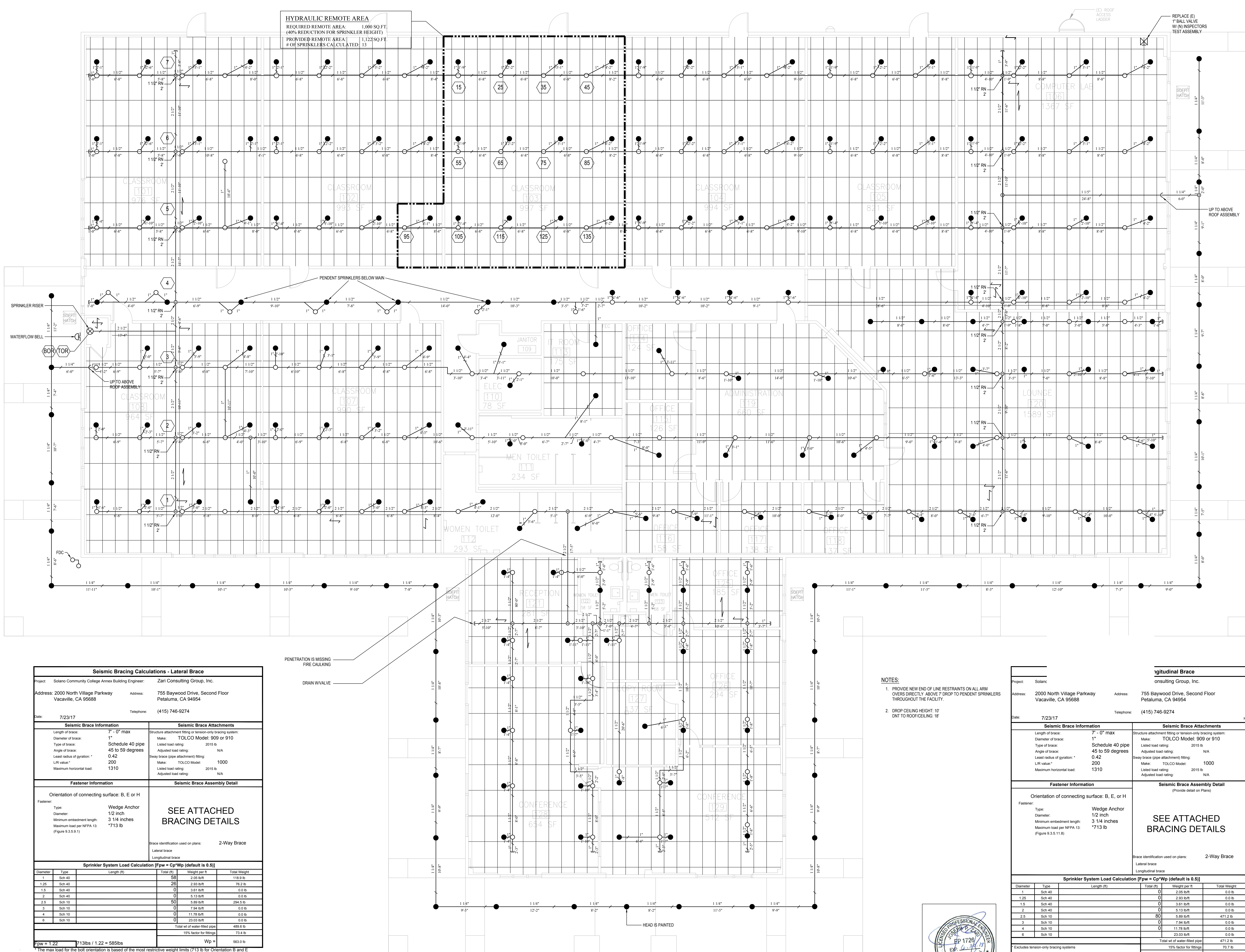
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06/06/2017	ISSUE FOR CD 50%
06/30/2017	ISSUE FOR CD 60%
07/20/2017	ISSUE FOR CD 100%
10/04/2017	REVIEW COMMENTS

SHEET TITLE:

FIRE PROTECTION SYSTEM FLOOR PLAN

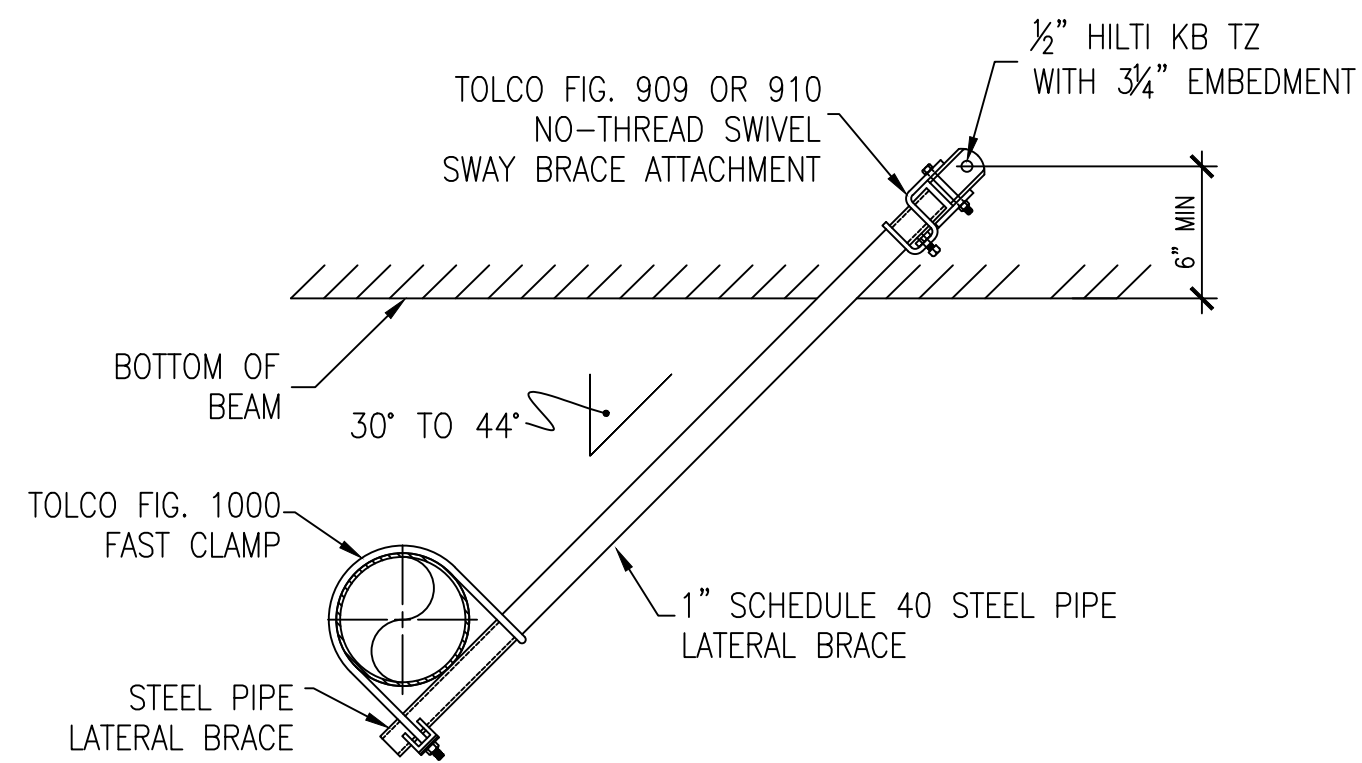
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PROJECT NO:	
PERMIT APPLICATION NO.:	
SHEET NUMBER:	

FP2-0

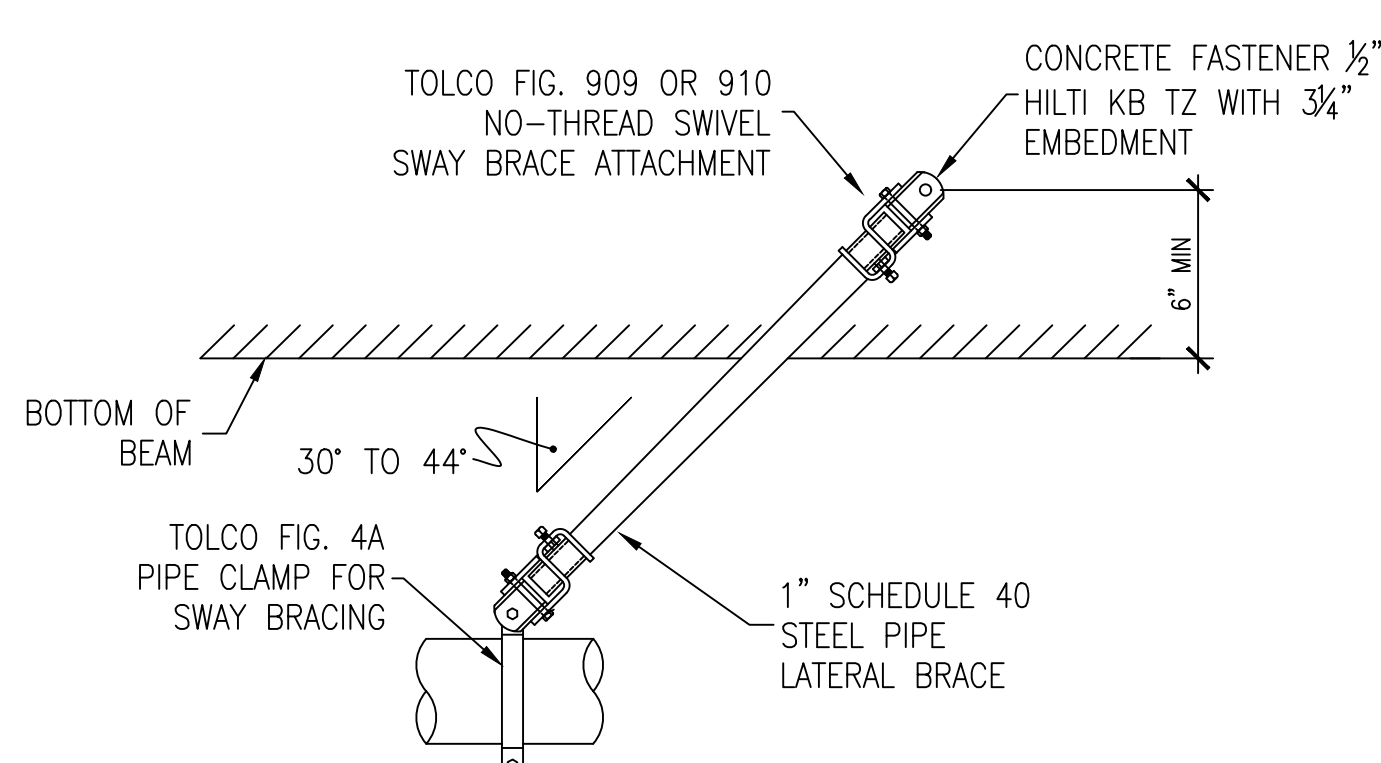


Zari Consulting Group, Inc. | Fire Protection Engineers | Building Code Experts

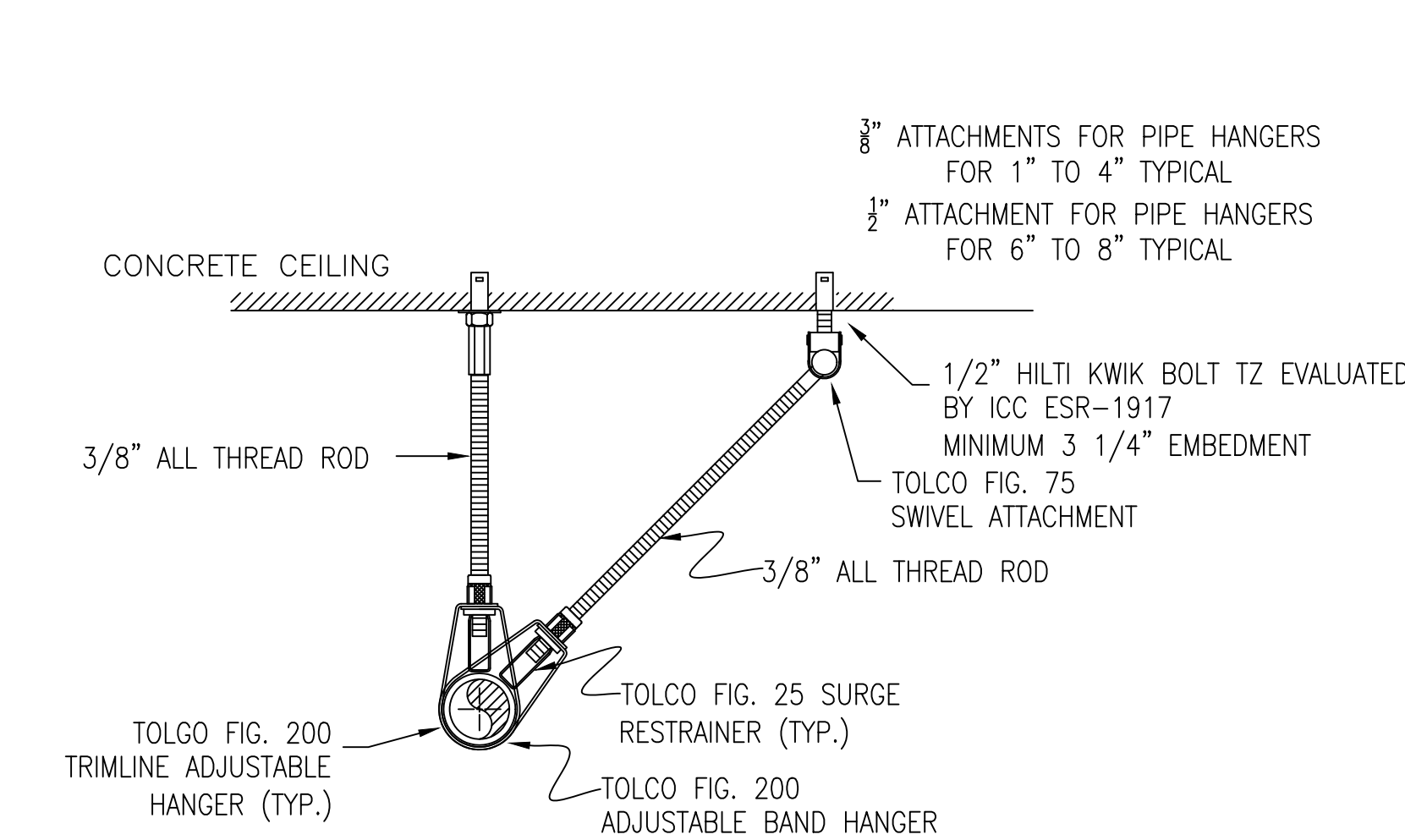
Zari Consulting Group, Inc. | Fire Protection Engineers | Building Code Experts



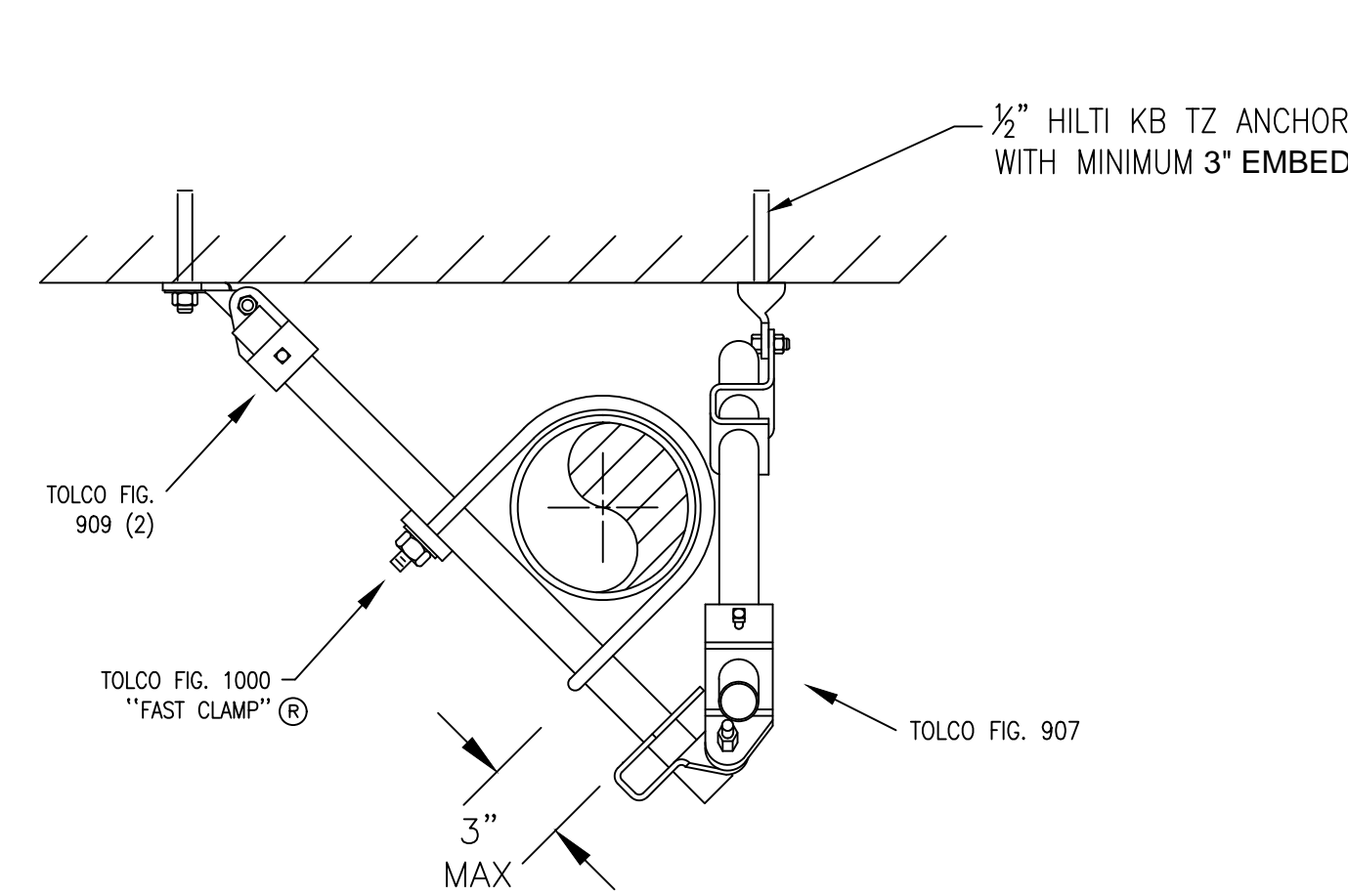
1 LATERAL EARTHQUAKE BRACING
FP3-0 NOT TO SCALE



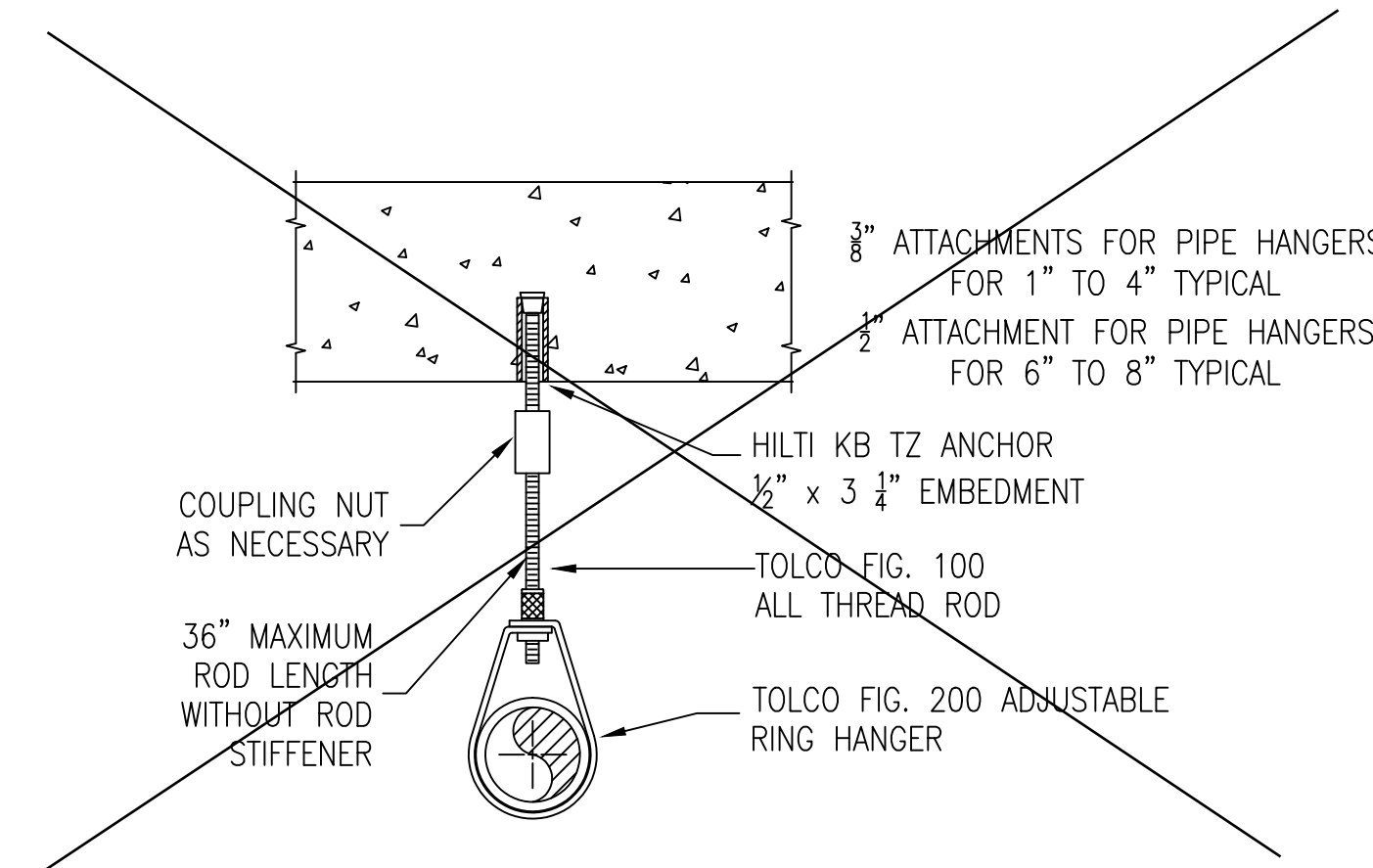
3 LONGITUDINAL EARTHQUAKE BRACING
FP3-0 NOT TO SCALE



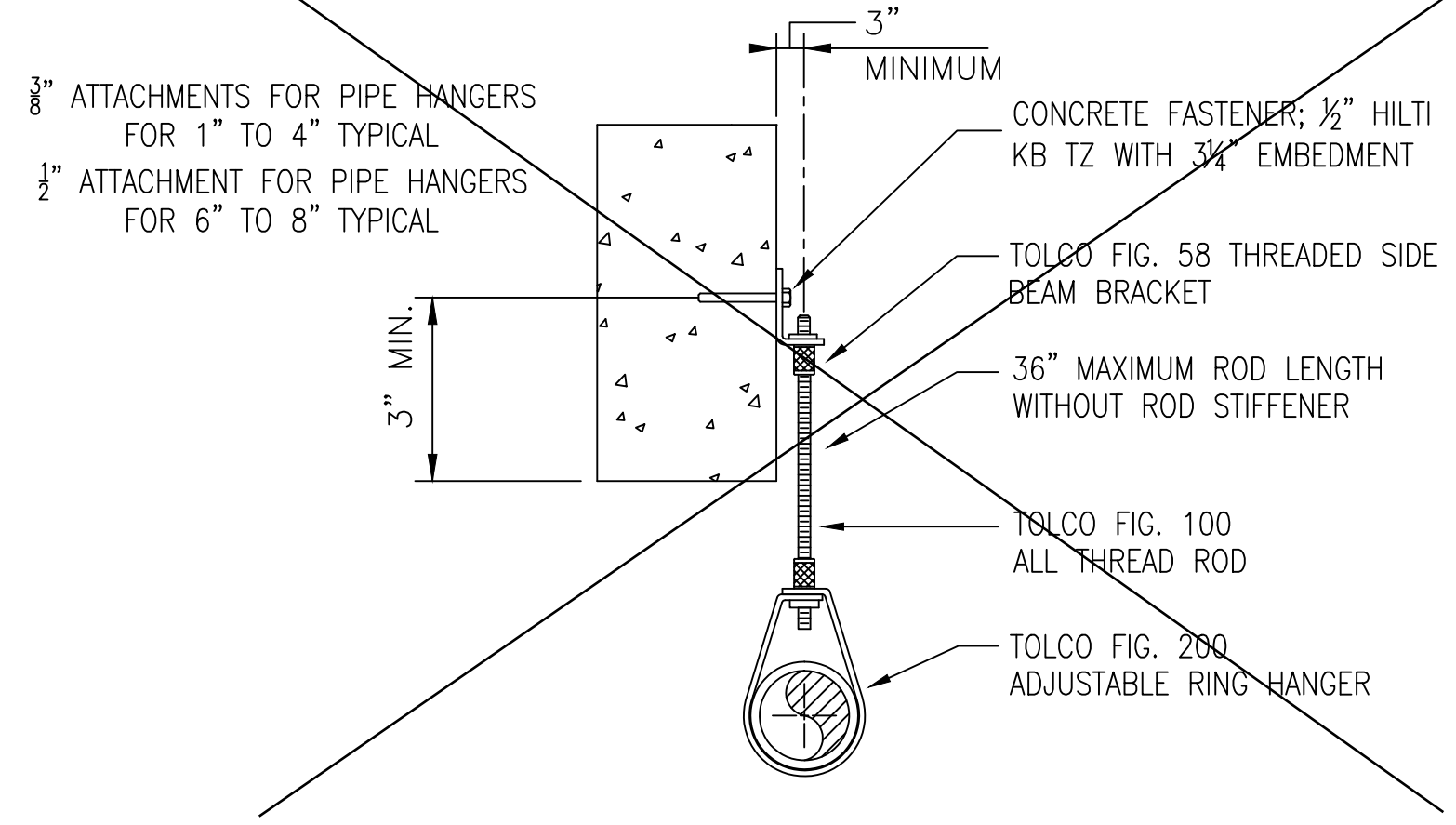
4 END OF BRANCH LINE RESTRAINT
FP3-0 NOT TO SCALE



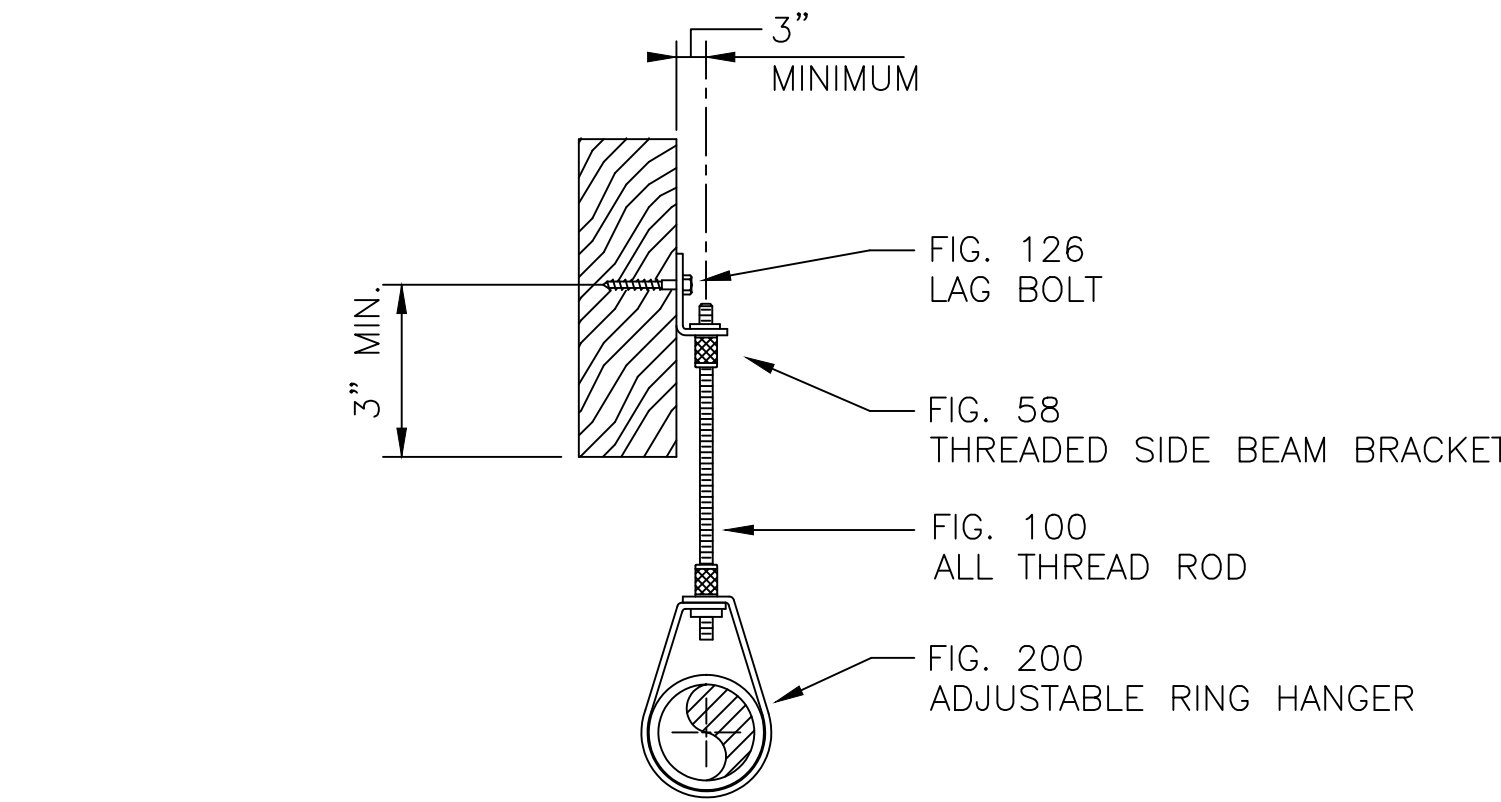
9 4 WAY LATERAL/LONGITUDINAL EARTHQUAKE BRACE
FP3-0 NOT TO SCALE



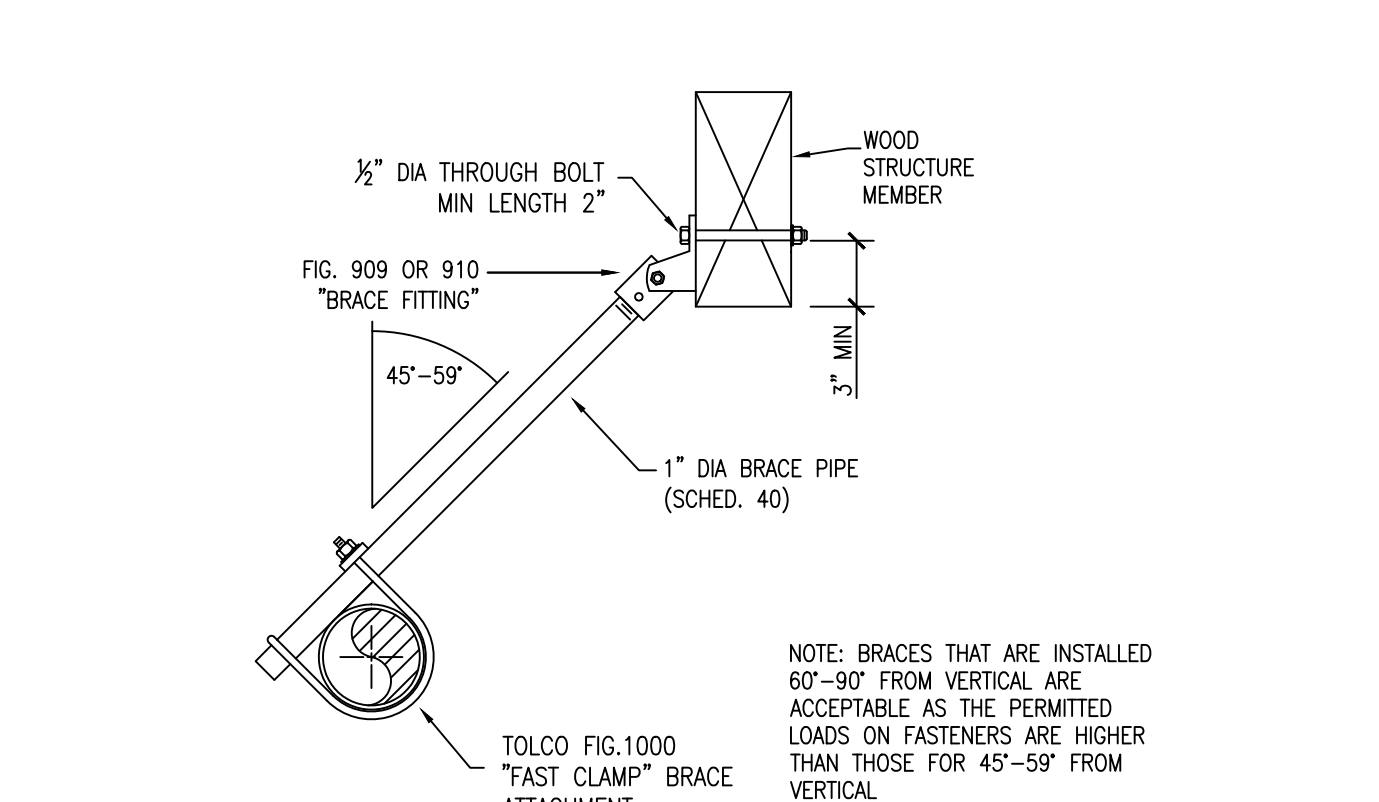
5 SELF DRILLING ANCHOR, ROD AND RING
FP3-0 NOT TO SCALE



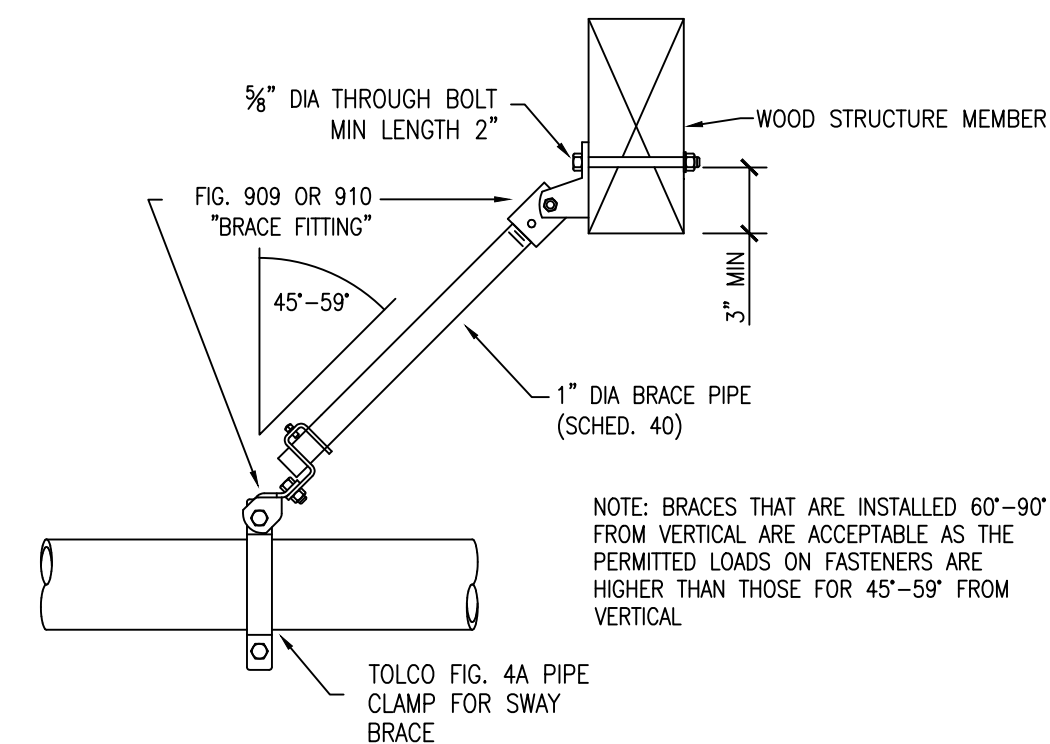
7 THREADED SIDE BEAM BRACKET, ROD & RING
FP3-0 NOT TO SCALE



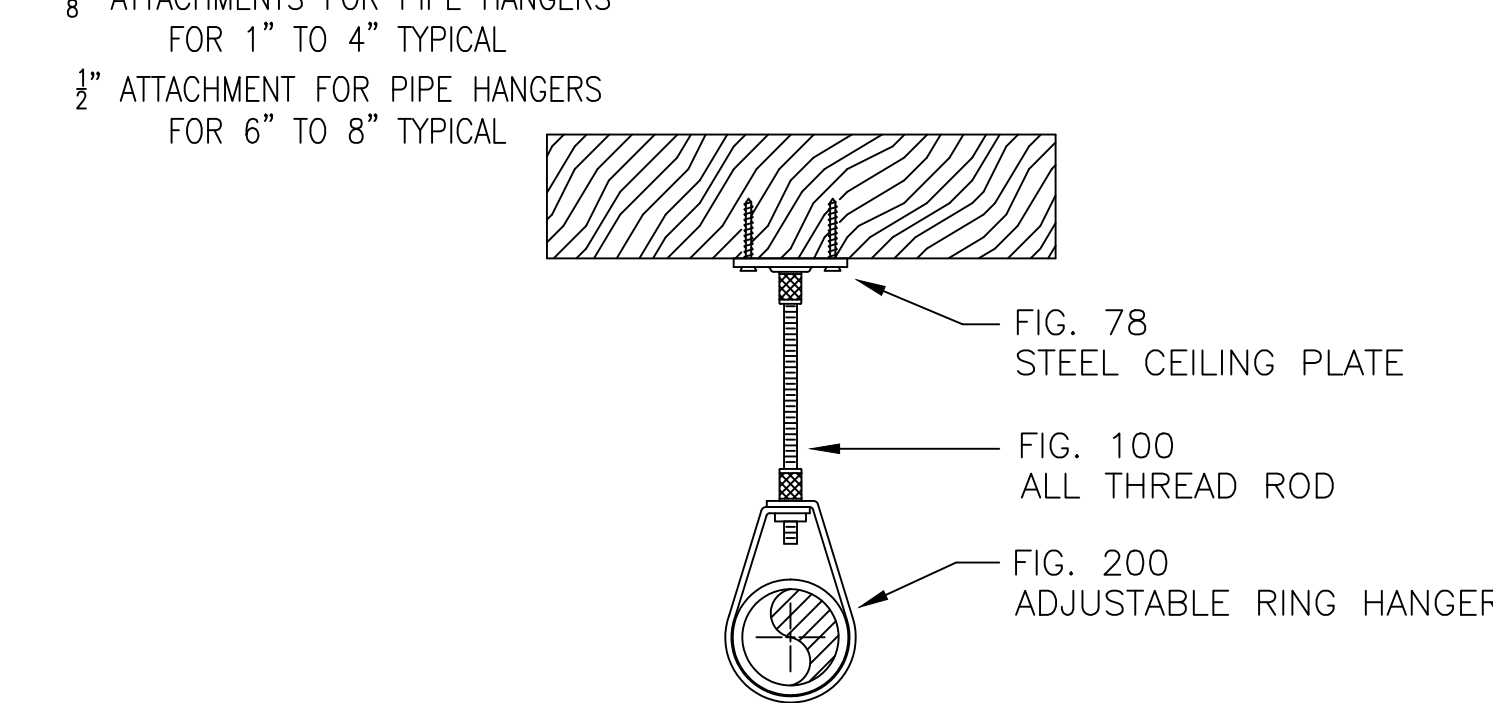
8 THREADED SIDE BEAM BRACKET, ROD & RING
FP3-0 NOT TO SCALE



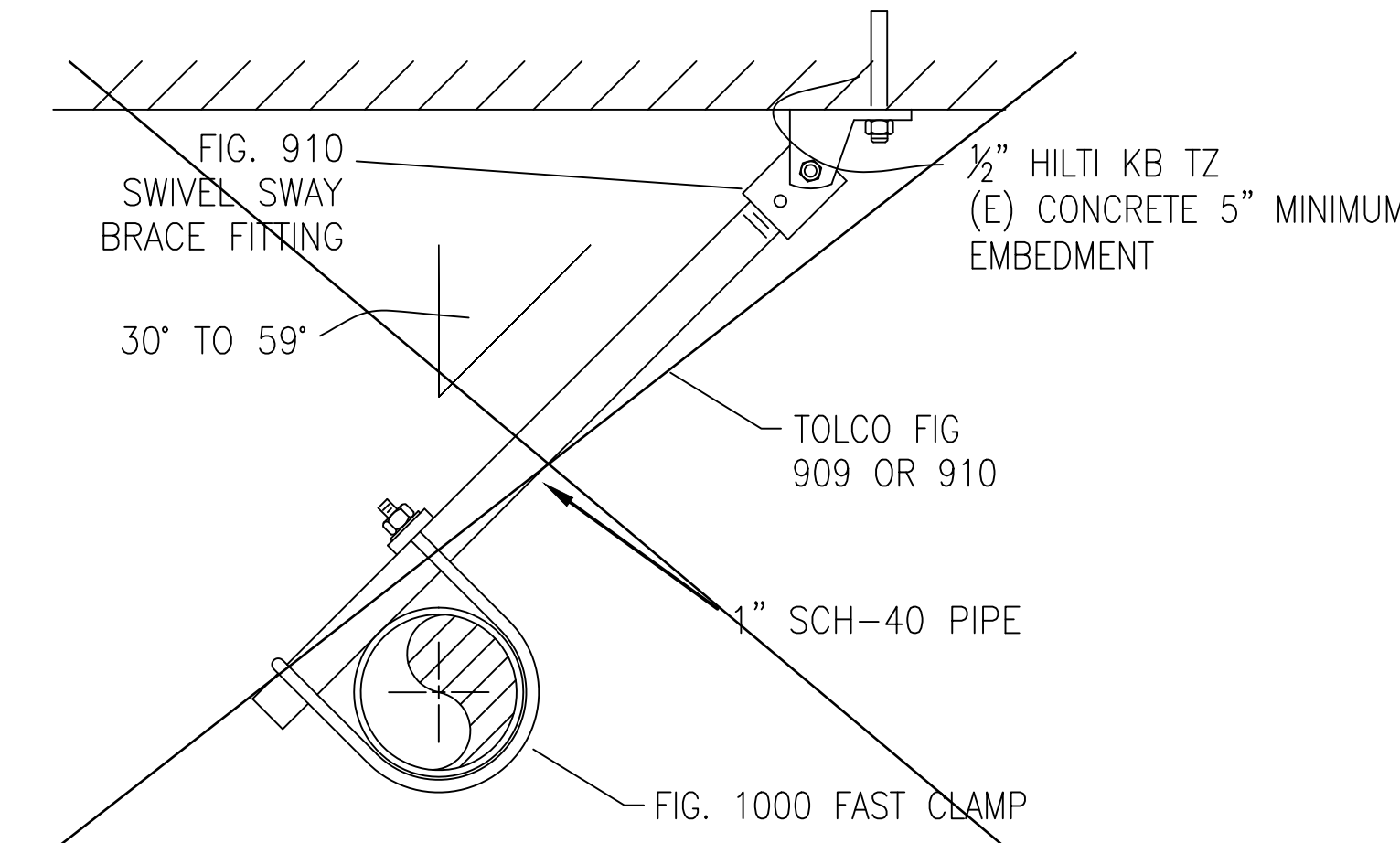
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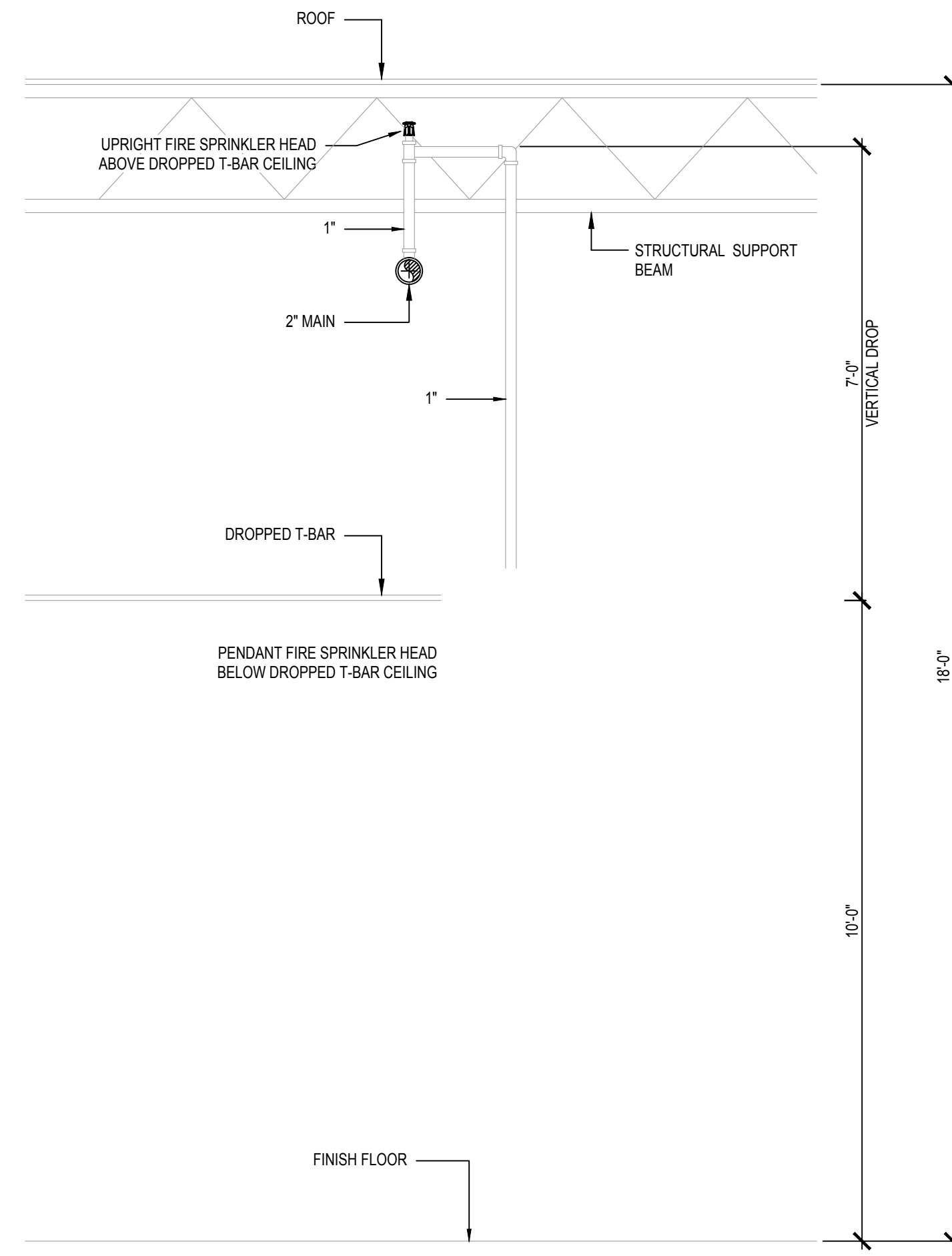
11 LONGITUDINAL EARTHQUAKE BRACING
FP3-0 NOT TO SCALE



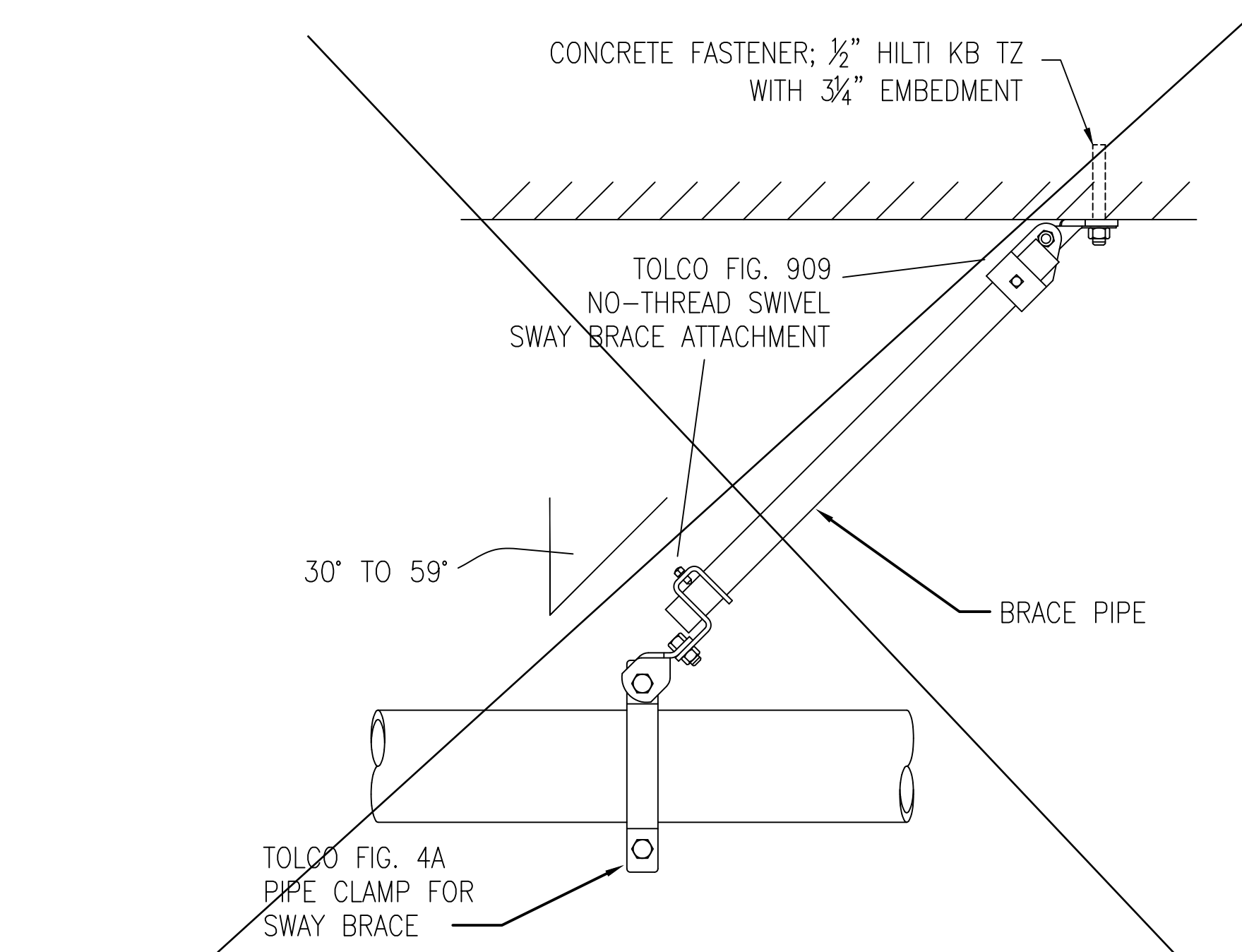
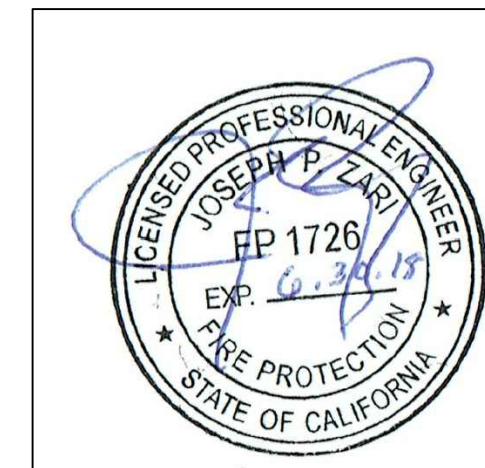
12 CEILING PLATE, ROD AND RING
FP3-0 NOT TO SCALE



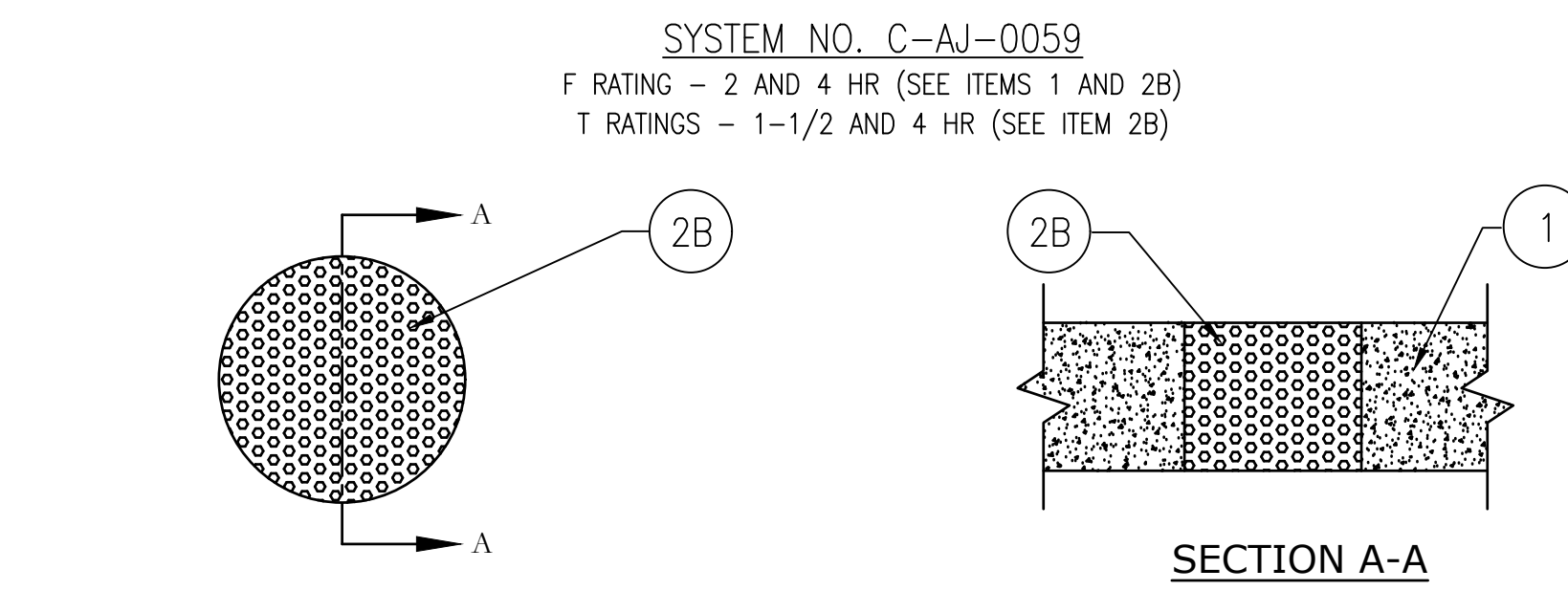
13 LATERAL EARTHQUAKE BRACE
FP3-0 NOT TO SCALE



16 TYPICAL BUILDING SECTION
FP3-0 SCALE: 1/2" = 1'-0"
























14 LONGITUDINAL EARTHQUAKE BRACE
FP3-0 NOT TO SCALE

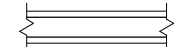
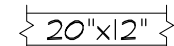





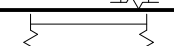
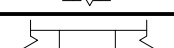
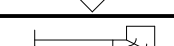



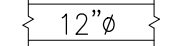
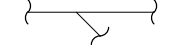
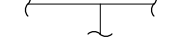
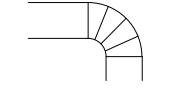
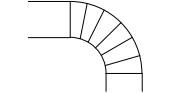
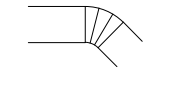
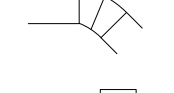
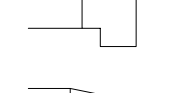
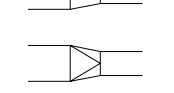
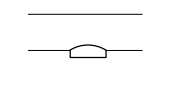
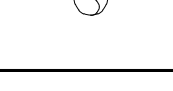

15 DETAIL - FLOOR ASSEMBLY
FP3-0 NOT TO SCALE

- SYSTEM NO. C-AJ-0059
F RATING - 2 AND 4 HR (SEE ITEMS 1 AND 2B)
T RATINGS - 1-1/2 AND 4 HR (SEE ITEM 2B)
1. **FLOOR OR WALL ASSEMBLY** - REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100 TO 150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED **CONCRETE BLOCKS** *. MIN. FLOOR OR WALL THICKNESS FOR 2-HR F RATING IS 2 1/2 IN. MIN. FLOOR OR WALL THICKNESS FOR 4-HR RATING IS 4 1/2 IN. MAX DIAM. OF OPENING IS 7 IN.
- SEE **CONCRETE BLOCKS** CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. **FIRESTOP SYSTEM** - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
- A. FORM** - (NOT SHOWN) - FORM TO BE A RIGID SHEET MATERIAL SECURED AGAINST UNDERSIDE OF FLOOR OR BOTH SIDES OF WALL TO PREVENT LEAKAGE OF THE FILL MATERIAL (ITEM 2B) DURING INSTALLATION. FORM TO BE REMOVED AFTER FILL MATERIAL HAS HARDENED.
- B. FILL, VOID OR CAVITY MATERIAL* - MORTAR** - MATERIAL TO BE MIXED WITH WATER AT A RATE OF TWO PARTS OF DRY MIXTURE TO ONE PART OF WATER, BY VOLUME, IN ACCORDANCE WITH THE MIXING INSTRUCTIONS SUPPLIED WITH THE PRODUCT. MORTAR PUMPED OR TROWELED INTO THE THROUGH OPENING TO FILL THE OPENING THROUGHOUT THE ENTIRE THICKNESS OF THE FLOOR OR WALL. THE HOURLY F AND T RATING OF THE FIRESTOP SYSTEM ARE DEPENDENT UPON THE FILL MATERIAL THICKNESS, AS SHOWN IN THE FOLLOWING TABLE:

MIN. FILL MTL DEPTH, IN.	F RATING, HR	T RATING, HR
2 1/2	2	1 1/2
4 1/2	4	4

MECHANICAL SYMBOLS	
SYMBOL	DESCRIPTION
	POINT OF CONNECTION (POC)
	THERMOSTAT OR TEMPERATURE SENSOR, MAX 48" A.F.F
	HUMIDISTAT
	SMOKE DETECTOR
	SECTION AT ROUND DUCT
	SECTION AT RECTANGULAR SUPPLY AIR DUCT
	SECTION AT RECTANGULAR RETURN AIR DUCT
	SECTION AT RECTANGULAR EXHAUST AIR DUCT
	LAY-IN SUPPLY AIR DIFFUSER
	LAY-IN RETURN AIR GRILLE
	LAY-IN EXHAUST AIR GRILLE
	SIDEWALL DIFFUSER/GRILLE
	SUPPLY AIR FLOW ARROW
	RETURN/EXHAUST AIR FLOW ARROW
	SURFACE MOUNTED SUPPLY AIR DIFFUSER
	SURFACE MOUNTED RETURN AIR GRILLE
	ROUND SUPPLY AIR DIFFUSER
300 CFM	CFM - AIRFLOW
	MANUAL VOLUME DAMPER
	MOTORIZED DAMPER
	BACKDRAFT DAMPER
	COMBINATION FIRE/SMOKE DAMPER

RECTANGULAR DUCT LEGEND	
SYMBOL	DESCRIPTION
	RECTANGULAR DUCT WITH LINING
	DUCT WIDTH x HEIGHT, DIMENSIONS ARE NET INSIDE.
	DUCT RISE OR DROP IN DIRECTION OF AIRFLOW
	FLEXIBLE DUCT (SHOWN WITH DIFFUSER)
	SQUARE-TO-ROUND TRANSITION
	FLEXIBLE CONNECTION
	90° ELL W/ TURNING VANES (RADIUS ELL IS ACCEPTABLE)
	90° TAP
	45° TAP
	RECTANGULER TEE

ROUND DUCT LEGEND	
LINE TYPE	DESCRIPTION
	AIR DUCT (SINGLE LINE)
	AIR DUCT (DOUBLE LINE), DIMENSION IS NET INSIDE
	45° DUCT BRANCH
	90° DUCT BRANCH
	SHORT RADIUS 90° ELBOW (SPIRAL)
	LONG RADIUS 90° ELBOW (SPIRAL)
	SHORT RADIUS 45° ELBOW (SPIRAL)
	LONG RADIUS 45° ELBOW (SPIRAL)
	BULL HEAD TEE (SPIRAL)
	ROUND DUCT TRANSITION (SPIRAL)
	SQUARE-TO-ROUND DUCT TRANSITION (SPIRAL)
	90° DUCT TAP (SPIRAL)
	DUCT OR FLUE THRU ROOF OR FLOOR

MECHANICAL LEGEND			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT	HHWS	HEATING HOT WATER SUPPLY
AFF	ABOVE FINISHED FLOOR	HHWR	HEATING HOT WATER RETURN
A.L.	ACOUSTIC LINING (1" LINING UON)	IN	INCHES
APPROX.	APPROXIMATELY	LBS	POUNDS
BFP	BACKFLOW PREVENTER	MFR	MANUFACTURER
CD	CONDENSATE DRAIN	(N)	NEW
CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED
CTE	CONNECT TO EXISTING	NIC	NOT IN CONTRACT
DIA	DIAMETER	NO	NORMALLY OPEN
DN	DOWN	NTS	NOT TO SCALE
DWG	DRAWING	OC	ON CENTER
(E)	EXISTING	OD	OUTSIDE DIAMETER
EA	EXHAUST AIR	PD	PRESSURE DROP
EF	EXHAUST FAN	POC	POINT OF CONNECTION
EL	ELEVATION	PSI	POUNDS PER SQUARE INCH
ESP	EXTERNAL STATIC PRESSURE	(RL)	RELOCATED
(F)	FUTURE	RPM	REVOLUTIONS PER MINUTE
FC	FLEX CONNECTOR	SD	SMOKE DETECTOR
FD	FIRE DAMPER	SP	STATIC PRESSURE
FT	FEET	SOV	SHUT-OFF VALVE
FSD	FIRE SMOKE DAMPER	ST	STRAINER
GA	U.S. GAUGE	TYP.	TYPICAL
GSM	GALVANIZED SHEET METAL	UCD	UNDERCUT DOOR
GPH	GALLONS PER HOUR	UON	UNLESS OTHERWISE NOTED
GPM	GALLONS PER MINUTE		

DRAWING INDEX	
MO.1	MECHANICAL NOTES, SYMBOL, LEGEND AND SCHEDULE
MO.2	MECHANICAL TITLE 24
MO.3	HVAC LOAD CALCULATION
M2.1	MECHANICAL FLOOR PLAN
M2.1D	MECHANICAL DEMO FLOOR PLAN
M2.2	MECHANICAL ROOF PLAN
M2.2D	MECHANICAL DEMO ROOF PLAN
M4.1	MECHANICAL SCHEDULE
M6.1	MECHANICAL DETAILS
M6.2	MECHANICAL DETAILS

MECHANICAL SCOPE OF WORK

THE MECHANICAL SCOPE OF WORK UNDER THIS APPLICATION IS THE NEW AIR DISTRIBUTION DUCT FOR THE CLASSROOMS AND OFFICES. EXISTING ROOFTOP AC UNITS ARE RE-USED. EXISTING SPLIT HEAT PUMP UNIT IS RELOCATED AND RE-USED.

GENERAL NOTES

- ALL WORK UNDER THIS DIVISION SHALL BE COORDINATED WITH OTHER TRADES. DUCT, PIPE AND WIRING SHALL BE ROUTED TO CLEAR ARCHITECTUAL OPENINGS, STRUCTUAL MEMBERS OR OTHER OBSTRUCTION.
- CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH THE INTENT OF THE CONSTRUCTION DOCUMENT AND SCOPE OF WORK BEFORE SUBMITTING A BID. DURING CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR SAFE WORKING CONDITIONS THAT INCLUDES SAFETY OF ALL PERSONS AND PROPERTY.
- PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT THAT ARE REQUIRED TO PROVIDE A COMPLETE INSTALLATION AS SHOWN ON THE DRAWINGS, INCLUDING THAT REASONABLY INFERRED FOR PROPER EXECUTION OF THE INSTALLATION. PROVIDE CUTTING AND PATCHING AS REQUIRED FOR THE INSTALLATION. REPAIR OR REPLACE ANY DAMAGE CAUSED BY THE WORK AND LEAKS/BREAKS OF THE SYSTEM. FURNISH VLAVES AND TRIM NOT SPECIFICALLY INDICAED BUT REQUIRED FOR PROPER FUNCTIONING OF EQUIPMENT.
- DRAWINGS ARE DIAGMMATIC. ITS CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL BUILDING CONDITIONS, EQUIPENT SIZE, LOCATION AND CONNECTION COMPLY WITH MFG'S INSTALLATION REQUIREMENT.
- DIFFUSERS AND GRILLES SHALL BE LOCATED ACCORDING TO ARCHITECTUAL REFLECTED CEILING PLAN. CONTRACTOR SHALL INSTALL DAMPER/DAMPER REGULATOR AS REQUIRED.
- ALL HVAC DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED PER SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS" UNLESS OTHERWISE NOTED. SEAL DUCT SEAM AND JOINTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS". ALL HVAC DUCT AND PIPE HANGERS/SUPPORTS SHALL BE PER 2008 SMACNA SEISMIC RESTRAINT MANUAL.
- INSULATE DUCTWORK & HOT WATER PIPE IN ACCORDANCE WITH TITLE 24 REQUIREMENT.
- HOT WATER PIPE SHALL BE TYPE L DRAWN-TEMPER COPPER TUBING WITH SOLDERED JOINTS.
- NEW ROOM THERMOSTATS SHALL INSTALLED @48" A.F.F.
- MECHANICAL CONTRACTOR TO PROVIDE (NEBB) CERTIFIED AIR & WATER BALANCE REPORT.
- DUCT MOUNTED SMOKE DETECTOR SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR, POWERED BY ELECTRICAL CONTRACTOR, INTERLOCKED FOR FAN-SHUTDOWN BY MECHANICAL CONTRACTOR AND WIRED TO FIRE ALARM PANEL BY ELECTRICAL CONTRACTOR.

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2016 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10 Chapter 13, 26 and 30.

- All permanent equipment and components.
- Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water.
- Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component are required to be anchored with temporary attachments.

The following mechanical and electrical components shall be positively attached to the structure, but the attachment need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.

- Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
- Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8, and 2016 CBC, Sections 1616A.1.24, 1616A.1.25 and 1616A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., SMACNA or OSHPD OPM), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP ☐ MD ☐ PP ☐ E ☐ - Option 1: Detailed on the approved drawings with project specific notes and details.

MP ☐ MD ☐ PP ☐ E ☐ - Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM #) _____.

MP ☐ MD ☐ PP ☐ - Option 3: Shall comply with the SMACNA Seismic Restraint Manual, OSHPD Edition (2009), including any addenda. Fasteners and other attachments not specifically identified in the SMACNA Seismic Restraint Manual, OSHPD Edition, are detailed on the approved drawings with project specific notes and details. The details shall account for the applicable Seismic Hazard Level _____ and Connection Level _____ for the project and conditions.

OWNER:

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

CA ARCHITECTS
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PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

EXCEL ENGINEERS

825 ORANGE AVE.
SUNNYVALE, CA 94087
Telephone: 408 - 230-9164
Fax: 408 - 749-9989

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SHEET LEGEND:

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NO.	DATE	DESCRIPTION:
04/25/2017		ISSUE FOR DD 100%
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10/18/2017		DSA BACKCHECK

KEY PLAN:

FILE: 48-C1

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

02-116082

AC JCC FLS GBC ss PVL

DATE: 10/31/2017

SCALE:

DATE:

PROJECT NO:

PERMIT APPLICATION NO.:

MECHANICAL NOTES, SYMBOL,
LEGEND AND SCHEDULE

MO.1

STATE OF CALIFORNIA MECHANICAL SYSTEMS <small>REGULATORY AGENCY FOR PUBLIC UTILITIES</small> <small>CALIFORNIA PUBLIC UTILITIES COMMISSION</small> Mechanical Systems	 CALIFORNIA ENERGY COMMISSION REC-2008-01-01 (Page 4 of 4)
SOCED Vanuxem Annex Building Renovation	
PROJECT INFORMATION Project Name: _____ Date: _____	Issued: 6/5/2017
DOCUMENTATION AUTHORITY'S DECLARATION STATEMENT I, _____, certify that this Certificate of Compliance documentation is accurate and complete. Declaration Signature: <u>Steven Xu</u>	
Company: Excel Engineers Address: 825 Orange Ave. Sunnyvale, CA 94087 City/State: _____	Signature Date: 6/5/2017 CEC Field Office Registration ID # (if applicable): MS1549 Phone: (408) 479-9989
RESPONSIBLE PERSONNEL'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 2 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. I have signed the drawings and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 2 and Part 4 of the California Code of Regulations. The building design features or system designs I've signed are identified on this Certificate of Compliance as consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building center at occupancy.	
Responsible Designer Name: Steven Xu Company: Excel Engineers Address: 825 Orange Ave. Sunnyvale, CA 94087 City/State: _____	Responsible Designer Signature: _____ Date Signed: _____ License: _____ MS# MS1549 Phone: (408) 230-9164

STATE OF CALIFORNIA ENERGY EFFICIENCY STANDARDS CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRECC-MCH-02-01 (Page 1 of 3)	
HVAC W/E System Requirements Project: SCDD Vacaville Annex Building Renovation		Date Performed: 6/5/2017	
DOCUMENTATION AUTHORITY'S DECLARATION STATEMENT			
I, 1. Certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Name: Steven Xu		Documentation Author Signature: 	
Company: Excel Engineers		Date: 6/5/2017	
Address: 825 Orange Ave.		City/State/Zip (include PO Box if applicable): M31549	
Phone: Sunnyvale, CA 94087		Phone: 408-743-6889	
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I, certify the following under penalty of perjury, under the laws of the State of California:			
1. The information provided on this Certificate of Compliance is true and correct.			
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible design).			
3. The energy features and performance specifications, material, components, and manufacturer devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.			
4. The building design features and system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, and other specifications submitted to the enforcement agency for approval with this building permit application.			
5. We warrant that a completed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.			
Responsible Design Signature: Steven Xu		Responsible Design Signature:	
Company: Excel Engineers		Date Signed:	
Address: 825 Orange Ave.		License: M31549	
City/State/Zip: Sunnyvale, CA 94087		Phone: (408)250-9154	

STATE OF CALIFORNIA MECHANICAL VENTILATION AND REHEAT		CALIFORNIA ENERGY COMMISSION	
PROJECT LOCATION: Steven Xu		NCC-MCH-03-B (Page 1 of 2)	
CERTIFICATE OF COMPLIANCE			
Mechanical Ventilation & Reheat			
Location: 8025 Vanowen Avenue Building Renovation			
			See Project # 682017
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I, _____, certify that this Certificate of Compliance documentation is accurate and complete.			
Signature: Steven Xu			
Date:	Excel Engineers	Documentation Author Signature:	
Company:	Excel Engineers	Expiration Date:	6/15/2017
Address:	825 Orange Ave.	CA/CVE/Title Holder's Declaration (if applicable)	M31549
City/Town/Village:	Sunnyvale, CA 94087	Phone:	408/479-9889
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I, certify the following under penalty of perjury, under the laws of the State of California:			
<ol style="list-style-type: none"> The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 4 of the Business and Professions Code to accept responsibility for the building design or system designed in this Certificate of Compliance [responsible designer]. I am eligible under Division 4 of the Business and Professions Code to accept responsibility for the building design or system identified on this Certificate of Compliance [responsible designer] conform to the requirements of Title 24, Part 2 and Part 6 of the California Code of Regulations. I have made the Mechanical Ventilation and Reheat systems identified on this Certificate of Compliance as consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this certificate application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and make available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building official at occupancy. 			
Responsible Designer Name: Steven Xu		Responsible Designer Signature: _____	
Company:	Excel Engineers	Date Signed:	
Address:	825 Orange Ave.	Phone:	M31549
City/Town/Village:	Sunnyvale, CA 94087	Fax:	(408)230-9184

PROJECT:
Vacaville Classroom Building
(Annex) Renovation Project

ISSUE/REVISION:	
NO.	DATE DESCRIPTION:
04/25/2017	ISSUE FOR DD 100%
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KEY PLAN:

FILE: 48-C1

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DIVISION OF THE STATE ARCHITECT

02-116082

AC JCC FLS GBC ss PVL

DATE: 10/31/2017

OWNER:

Solano Community College District
2000 North Village Parkway
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ARCHITECT:

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T 415.331.7655
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PROJECT:

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(Annex) Renovation Project

CONSULTANT TEAM:

EXCEL ENGINEERS

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FILE: 49-C1

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AC, JCC, FLS, GBC, ssPVL

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SCALE:

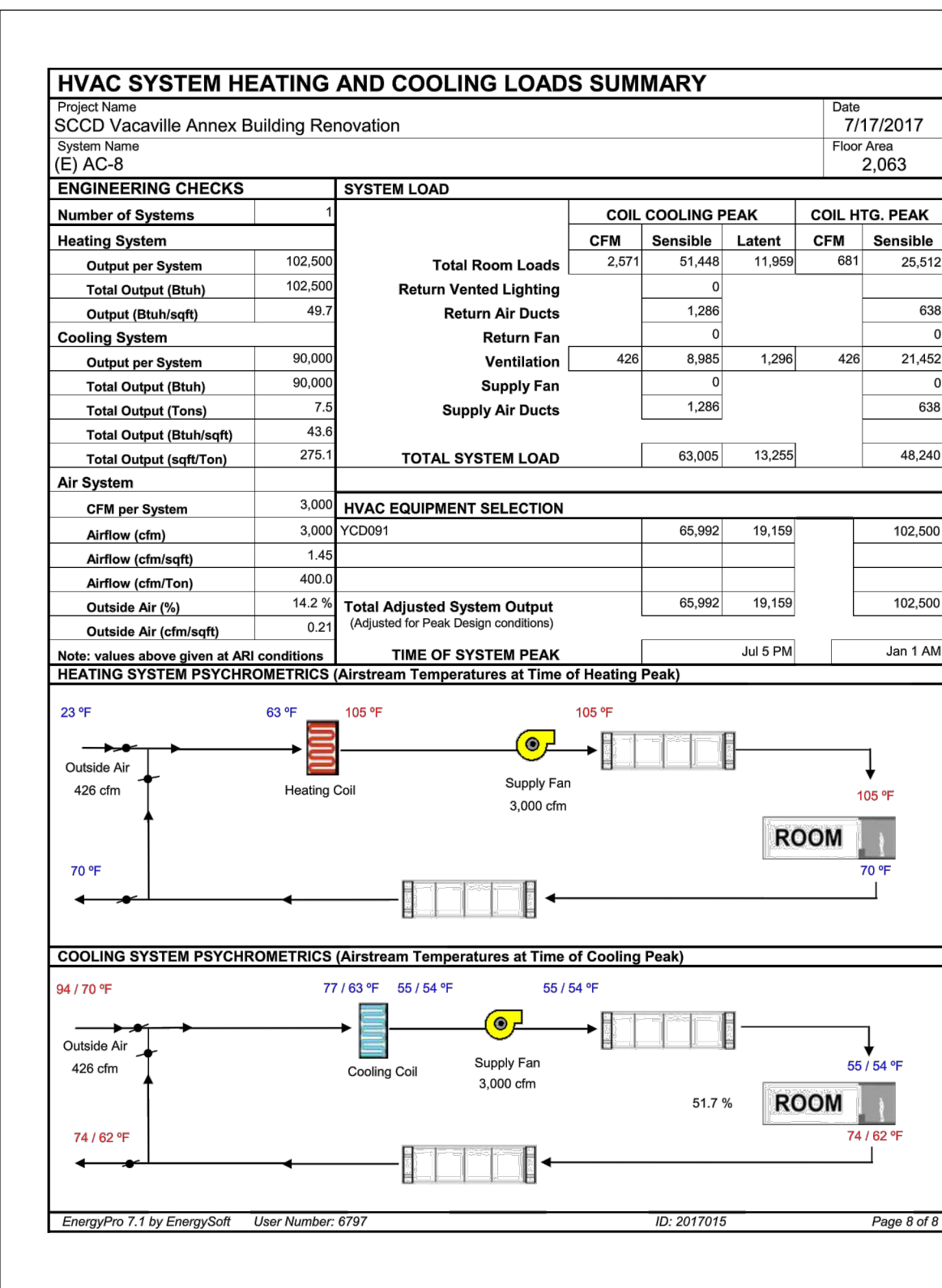
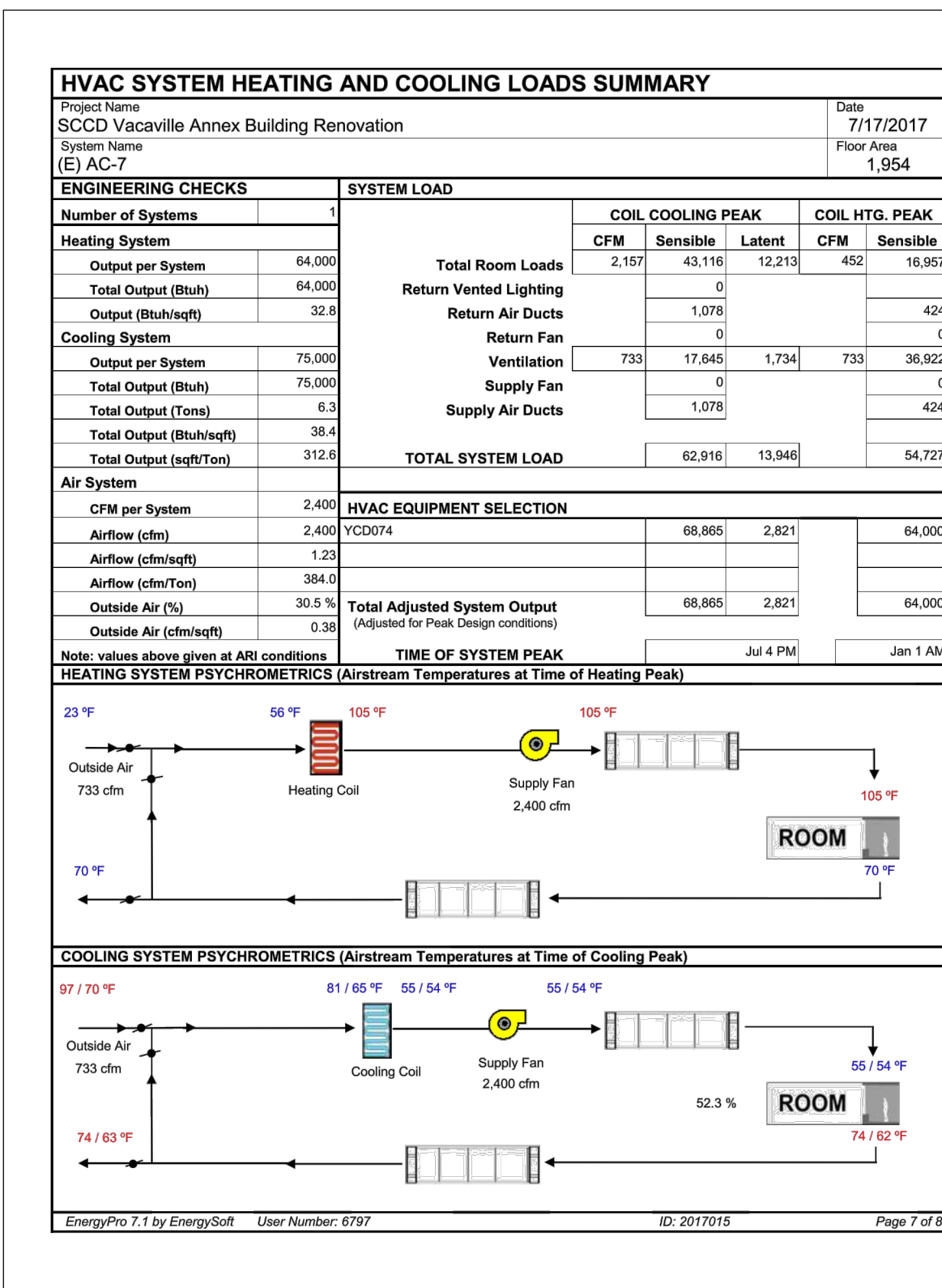
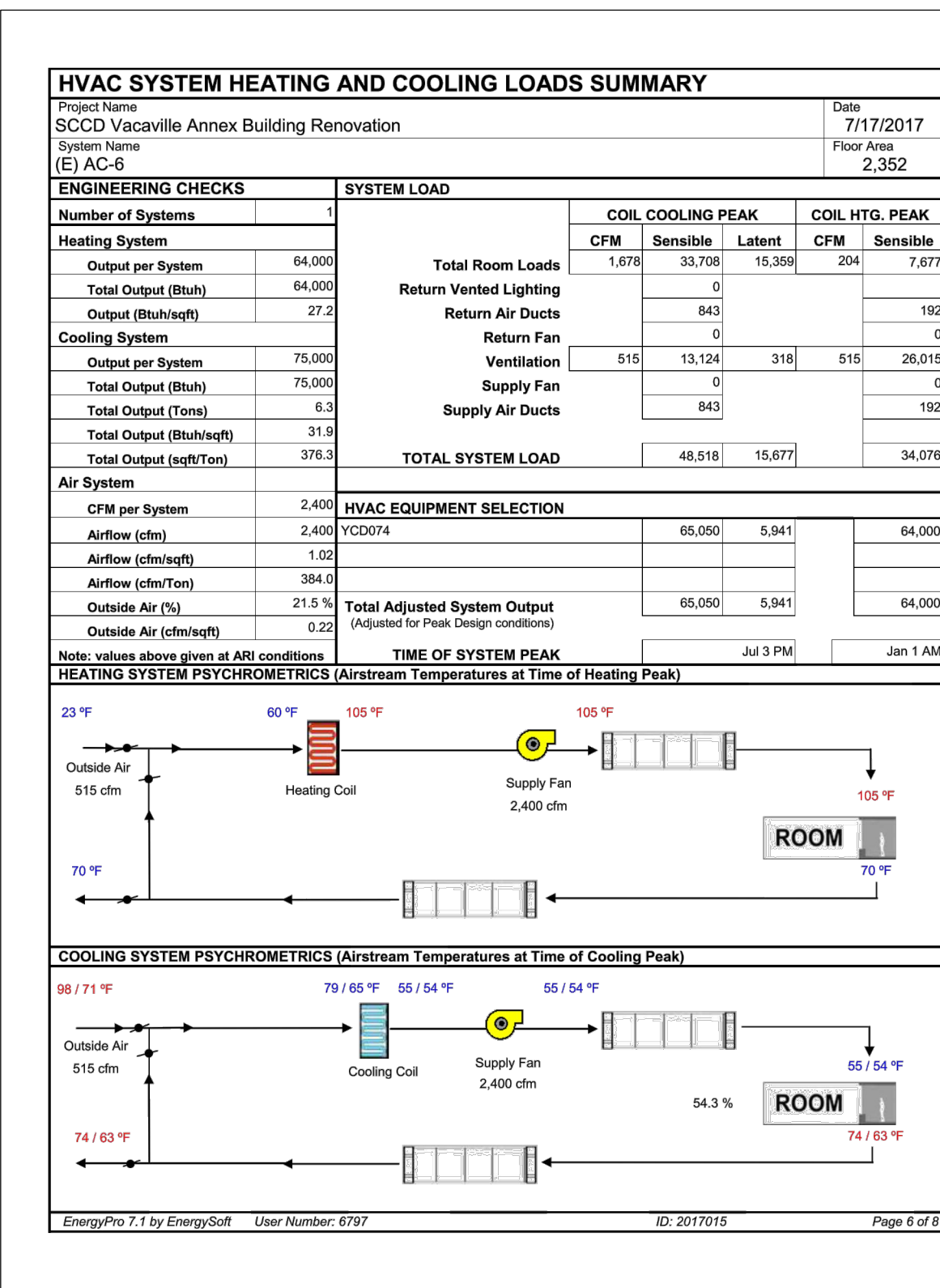
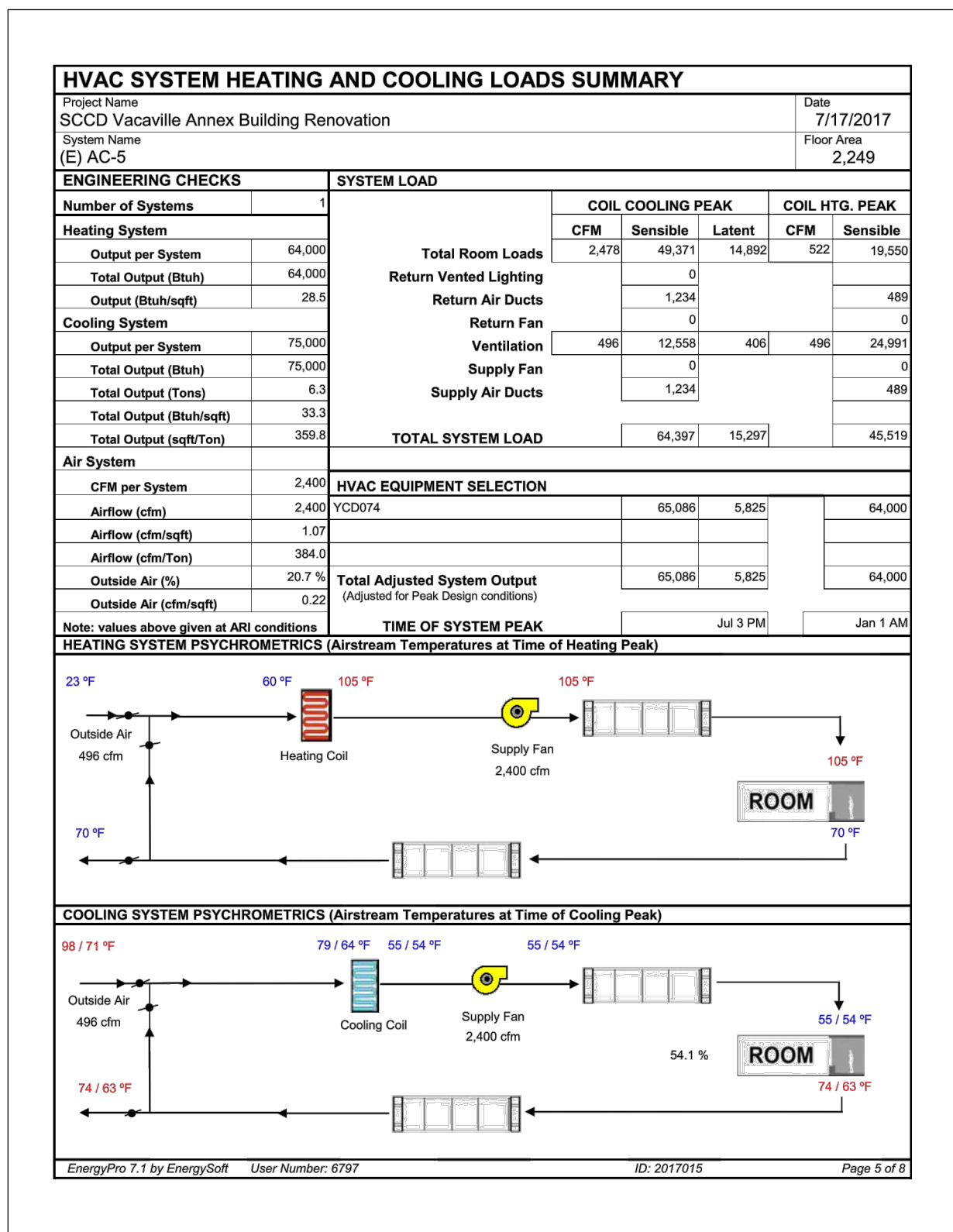
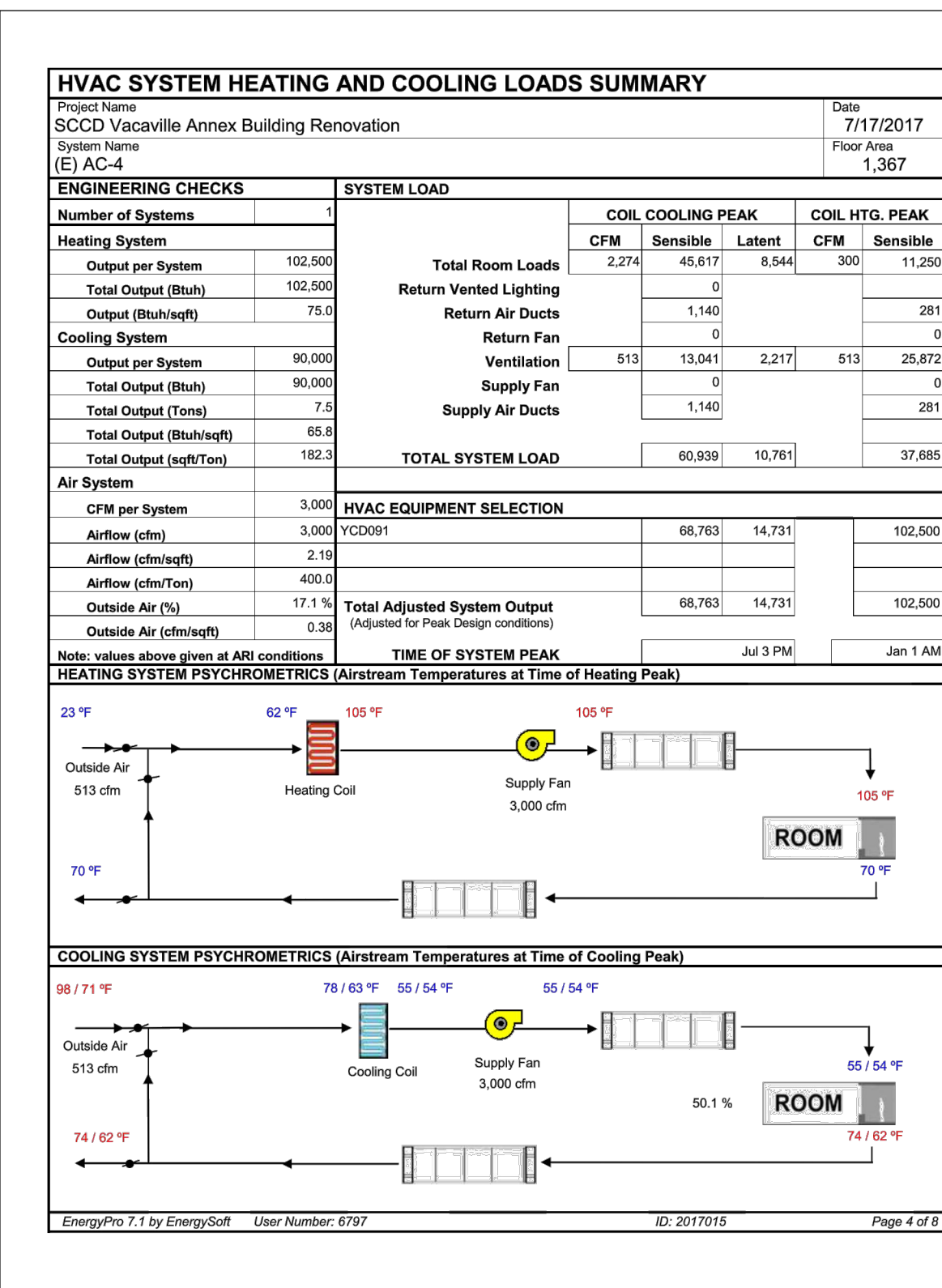
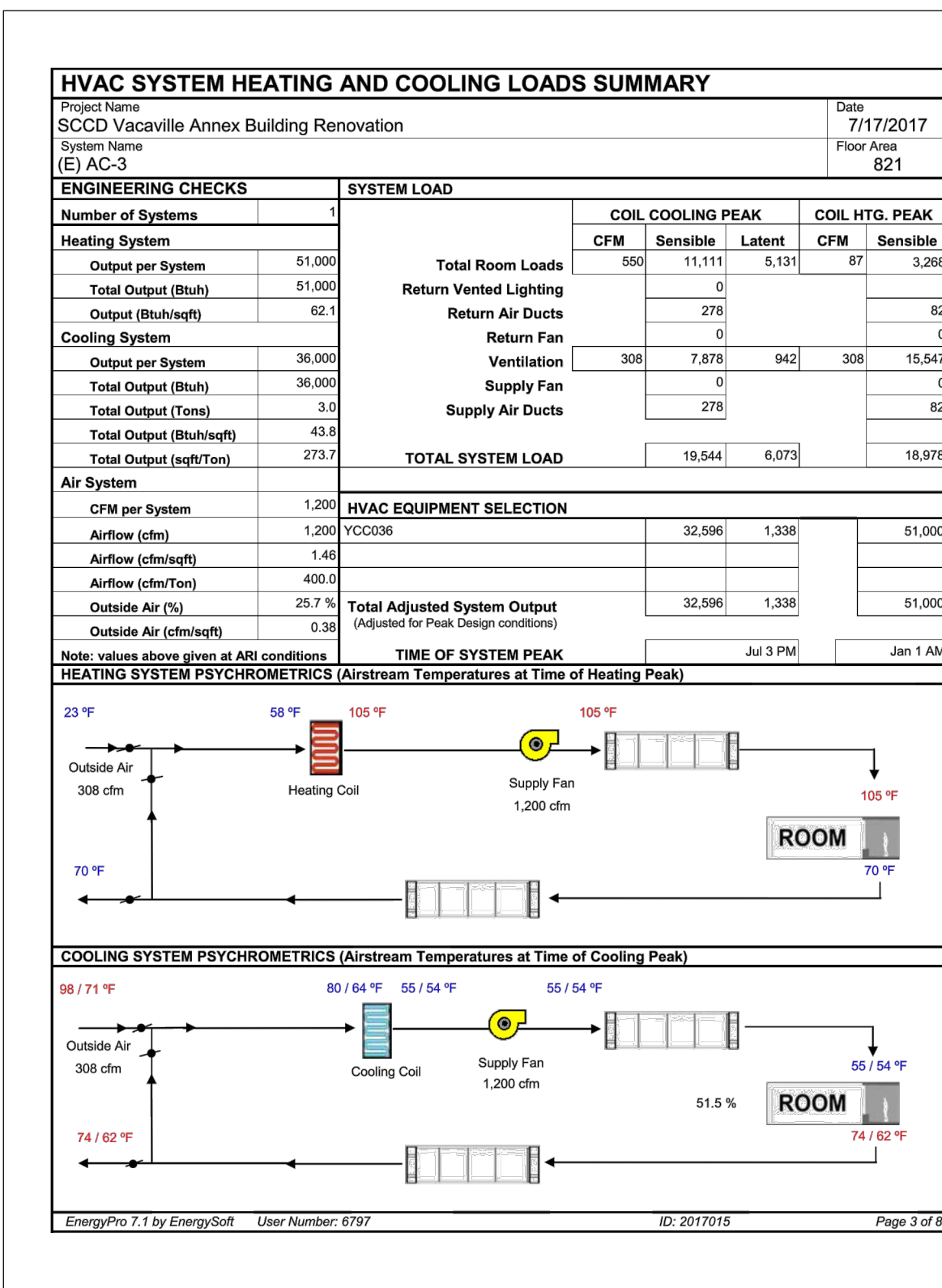
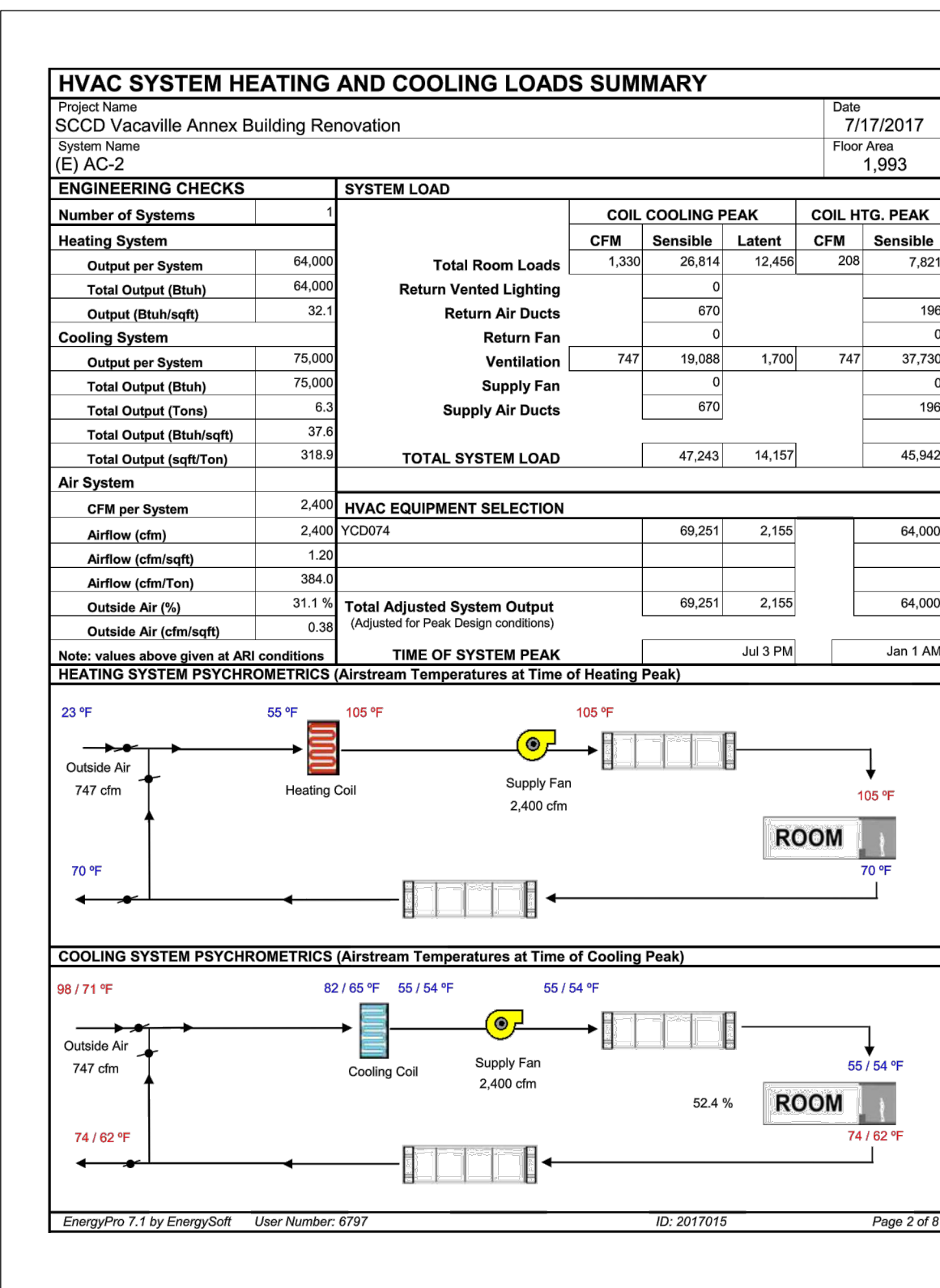
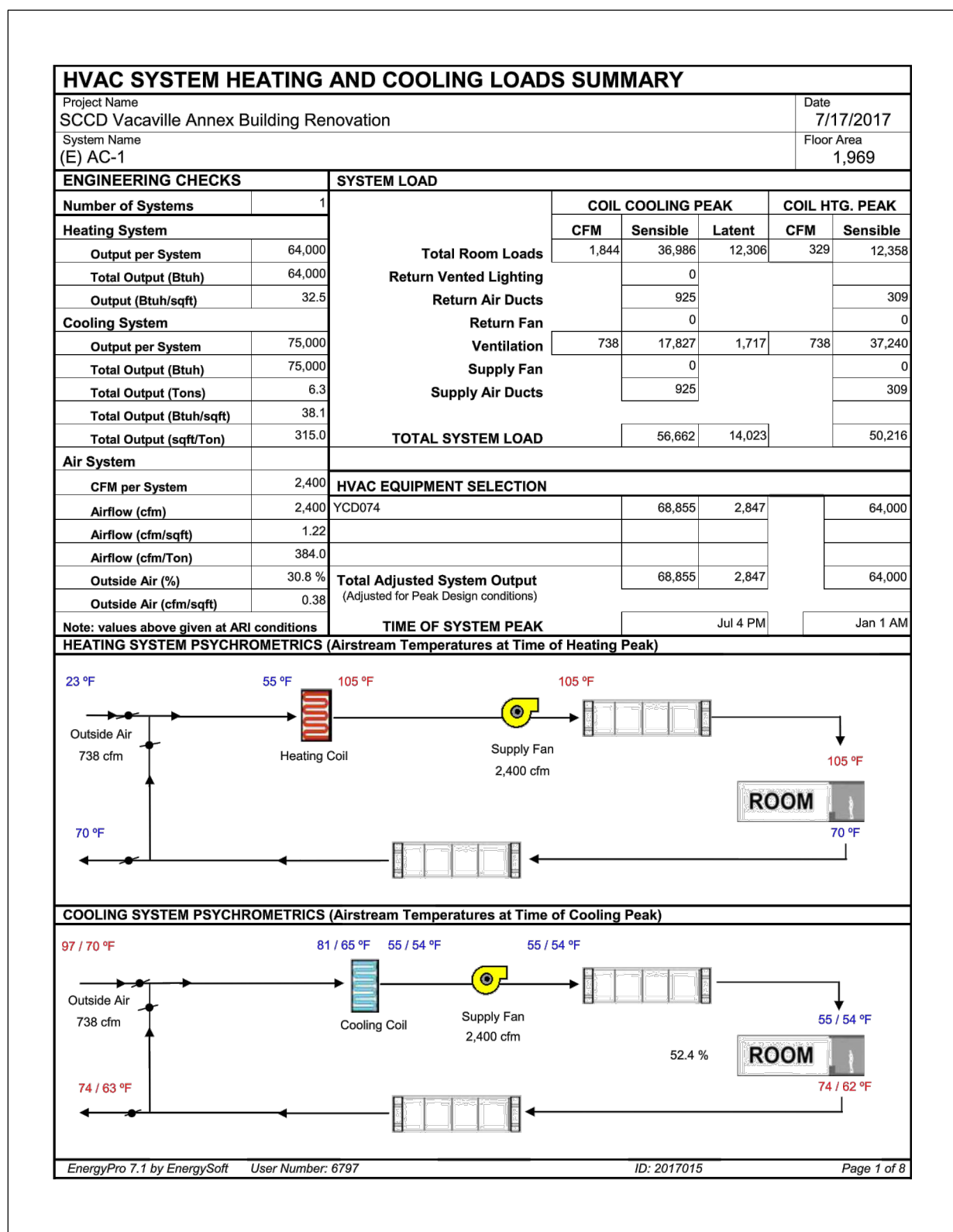
DATE:

PROJECT NO:

PERMIT APPLICATION NO.:

HVAC LOAD CALCULATION

MO.3



OWNER:

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CONSULTANT TEAM:

EXCEL ENGINEERS

825 ORANGE AVE.
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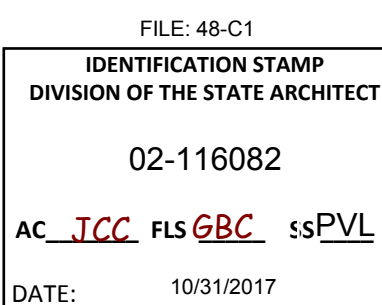


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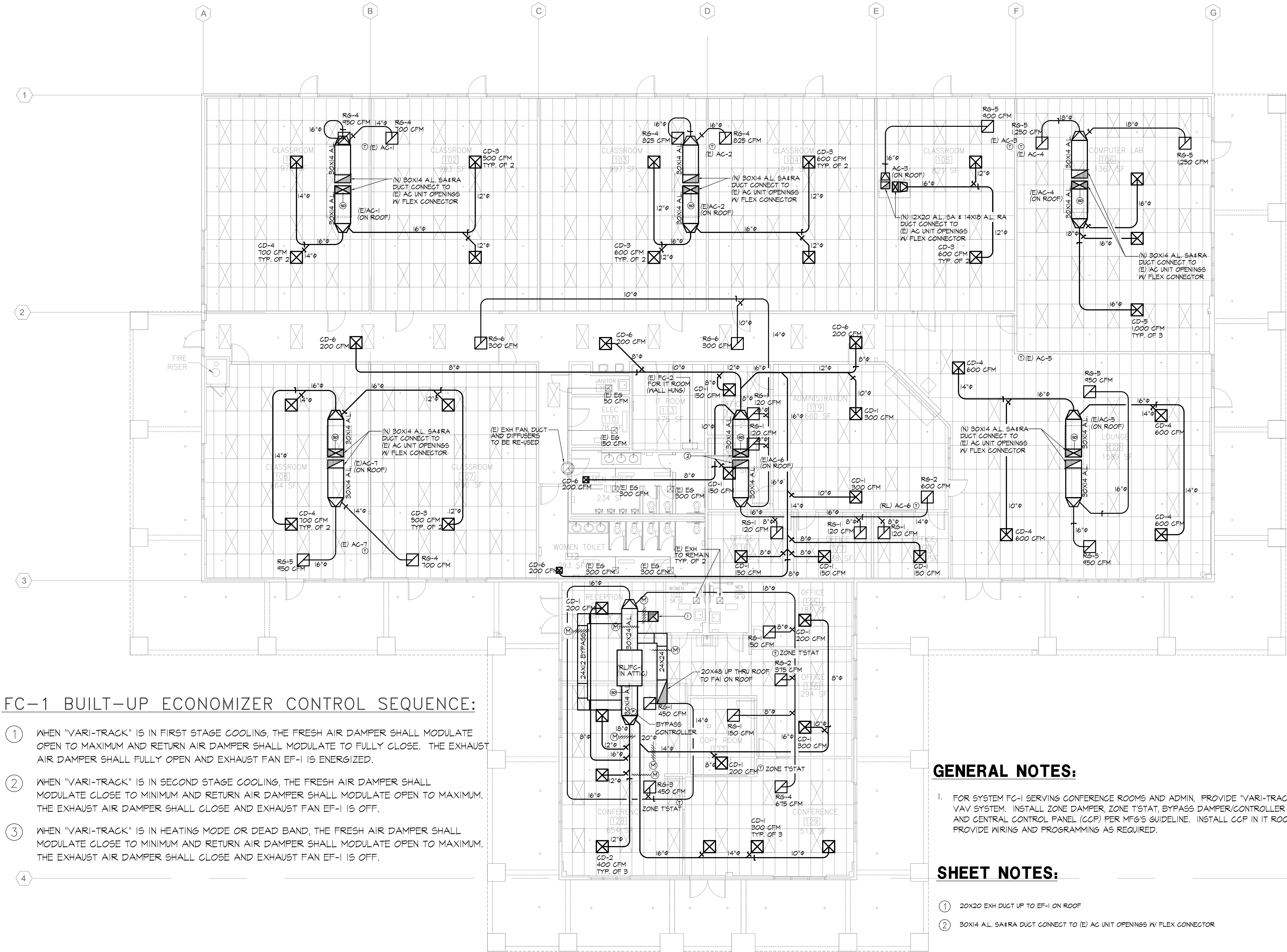
KEY PLAN:



SCALE: 1/8" = 1'-0"
DATE:
PROJECT NO.:
PERMIT APPLICATION NO.:

MECHANICAL FLOOR PLAN

M2.1



FC-1 BUILT-UP ECONOMIZER CONTROL SEQUENCE:

- 1 WHEN "VARI-TRACK" IS IN FIRST STAGE COOLING, THE FRESH AIR DAMPER SHALL MODULATE OPEN TO MAXIMUM AND RETURN AIR DAMPER SHALL MODULATE TO FULLY CLOSE. THE EXHAUST AIR DAMPER SHALL FULLY OPEN AND EXHAUST FAN EF-1 IS ENERGIZED.
- 2 WHEN "VARI-TRACK" IS IN SECOND STAGE COOLING, THE FRESH AIR DAMPER SHALL MODULATE CLOSE TO MINIMUM AND RETURN AIR DAMPER SHALL MODULATE OPEN TO MAXIMUM. THE EXHAUST AIR DAMPER SHALL CLOSE AND EXHAUST FAN EF-1 IS OFF.
- 3 WHEN "VARI-TRACK" IS IN HEATING MODE OR DEAD BAND, THE FRESH AIR DAMPER SHALL MODULATE CLOSE TO MINIMUM AND RETURN AIR DAMPER SHALL MODULATE OPEN TO MAXIMUM. THE EXHAUST AIR DAMPER SHALL CLOSE AND EXHAUST FAN EF-1 IS OFF.

GENERAL NOTES:

1. FOR SYSTEM FC-1 SERVING CONFERENCE ROOMS AND ADMIN, PROVIDE "VARI-TRACK" VAV SYSTEM. INSTALL ZONE DAMPER, ZONE T'STAT, BYPASS DAMPER/CONTROLLER AND CENTRAL CONTROL PANEL (CCP) PER MFG'S GUIDELINE. INSTALL CCP IN IT ROOM. PROVIDE WIRING AND PROGRAMMING AS REQUIRED.

SHEET NOTES:

- 1 20X20 EXH DUCT UP TO EF-1 ON ROOF
- 2 30X14 AL SA&RA DUCT CONNECT TO (E) AC UNIT OPENINGS W/ FLEX CONNECTOR



GENERAL NOTES:

- (E) AC UNIT, DUCT AND DIFFUSERS ARE SHOWN FOR REFERENCE ONLY. FIELD VERIFY (E) DUCT PRIOR TO CONSTRUCTION.
- (E) T'STAT AND CONTROLS SHALL REMAIN AND BE REUSED UNLESS OTHERWISE NOTED.

DEMO NOTES:

- (E) AC UNIT TO REMAIN AND RE-USED. REPLACE (E) AIR FILTER WITH MERV 8 FILTER. REMOVE (E) SUPPLY AND RETURN AIR DUCT DROP AND CAP FOR NEW CONSTRUCTION.
- N/A
- REMOVE (E) DUCT, SUPPORT, VOLUME DAMPERS AND DIFFUSERS IN HATCHED AREA. (E) DUCT, PENETRATES THROUGH THE CORRIDORS MAY HAVE FIRE SMOKE DAMPERS. REMOVE FIRE SMOKE DAMPERS AND DUCT TOGETHER.
- REMOVE (E) ABANDONED DUCT DROP FROM ROOF PLATFORM.
- (E) SPLIT SYSTEM (CONDENSING UNIT AND FAN COIL) TO BE RE-USED. DISCONNECT POWER AND RS/RL PIPE TO REMOVE THE (E) CONDENSING UNIT FOR THE NEW ROOFING. INSTALL THE CONDENSING UNIT BACK AND RECONNECT POWER AND RS/RL PIPE. CHARGE REFRIGERANT PER MANUFACTURER'S GUIDELINE.
- (E) FAN COIL UNIT TO BE RE-USED. RELOCATE THE UNIT TO MAKE ROOM FOR THE FIELD BUILT-UP MIXING PLENUM INCLUDING FRESH AIR DUCT, EXHAUST AIR DUCT AND MOTORIZED DAMPERS. SEE M2.1 FOR NEW LOCATION. EXTEND POWER, CONDENSATE AND RS/RL PIPE TO THE NEW LOCATION.

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PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

EXCEL ENGINEERS

825 ORANGE AVE.
SUNNYVALE, CA 94087
Telephone: 408 - 230-9164
Fax: 408 - 749-9989

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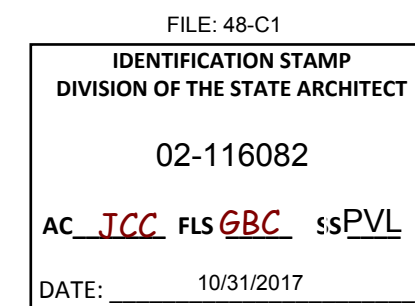


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06/06/2017		ISSUE FOR CD 50%
06/30/2017		ISSUE FOR CD 60%
07/20/2017		ISSUE FOR CD 100%
10/18/2017		DSA BACKCHECK

KEY PLAN:



SCALE: 1/8" = 1'-0"
DATE:
PROJECT NO.:
PERMIT APPLICATION NO.:

MECHANICAL DEMO FLOOR
PLAN

M2.1D

OWNER:

Solano Community College District
2000 North Village Parkway
Vacaville, CA 95688

ARCHITECT:

CA ARCHITECTS
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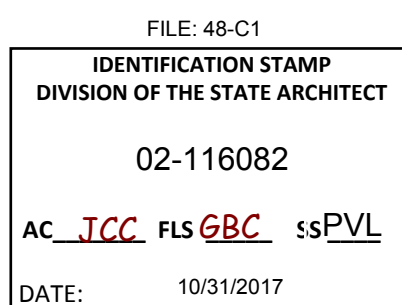


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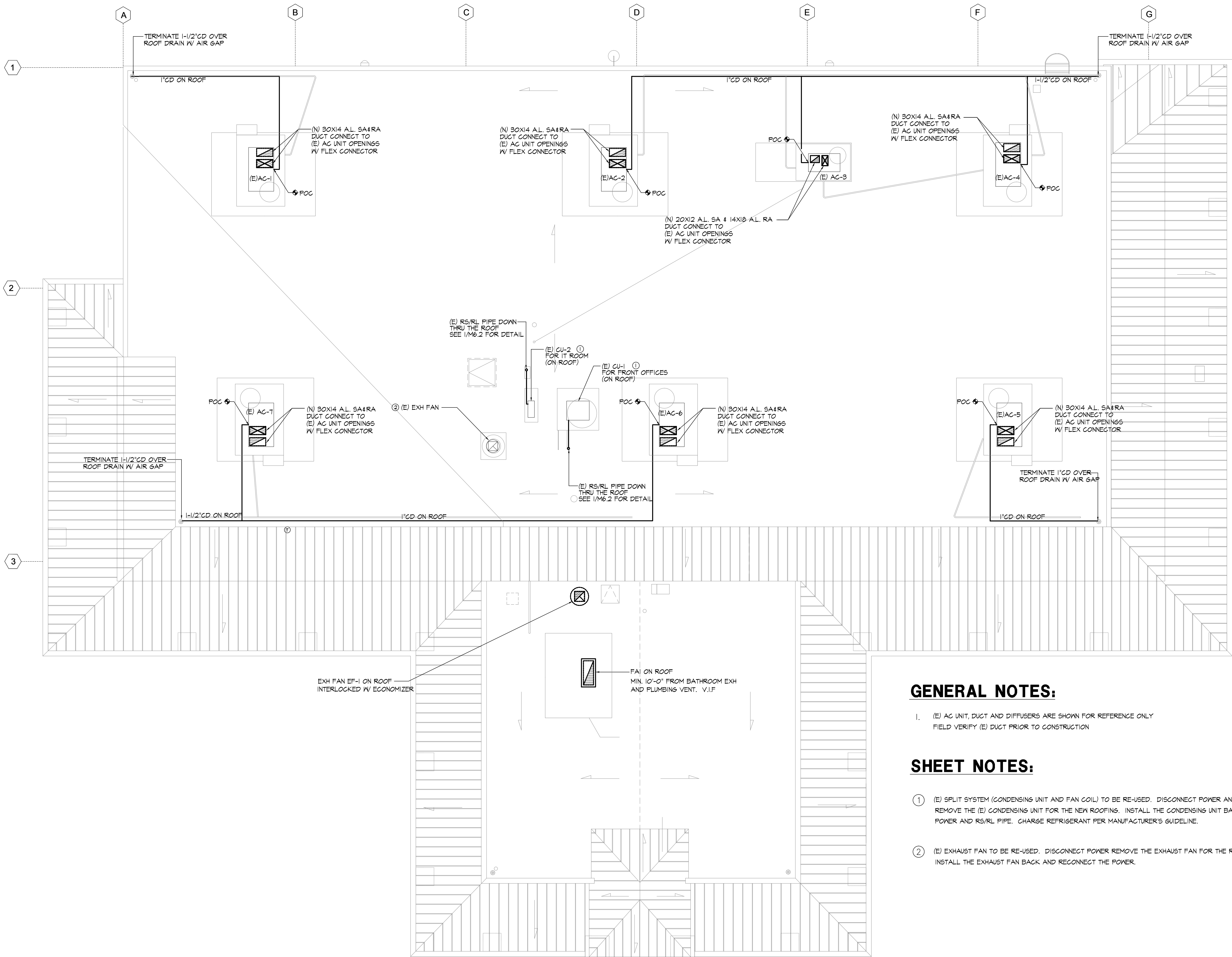
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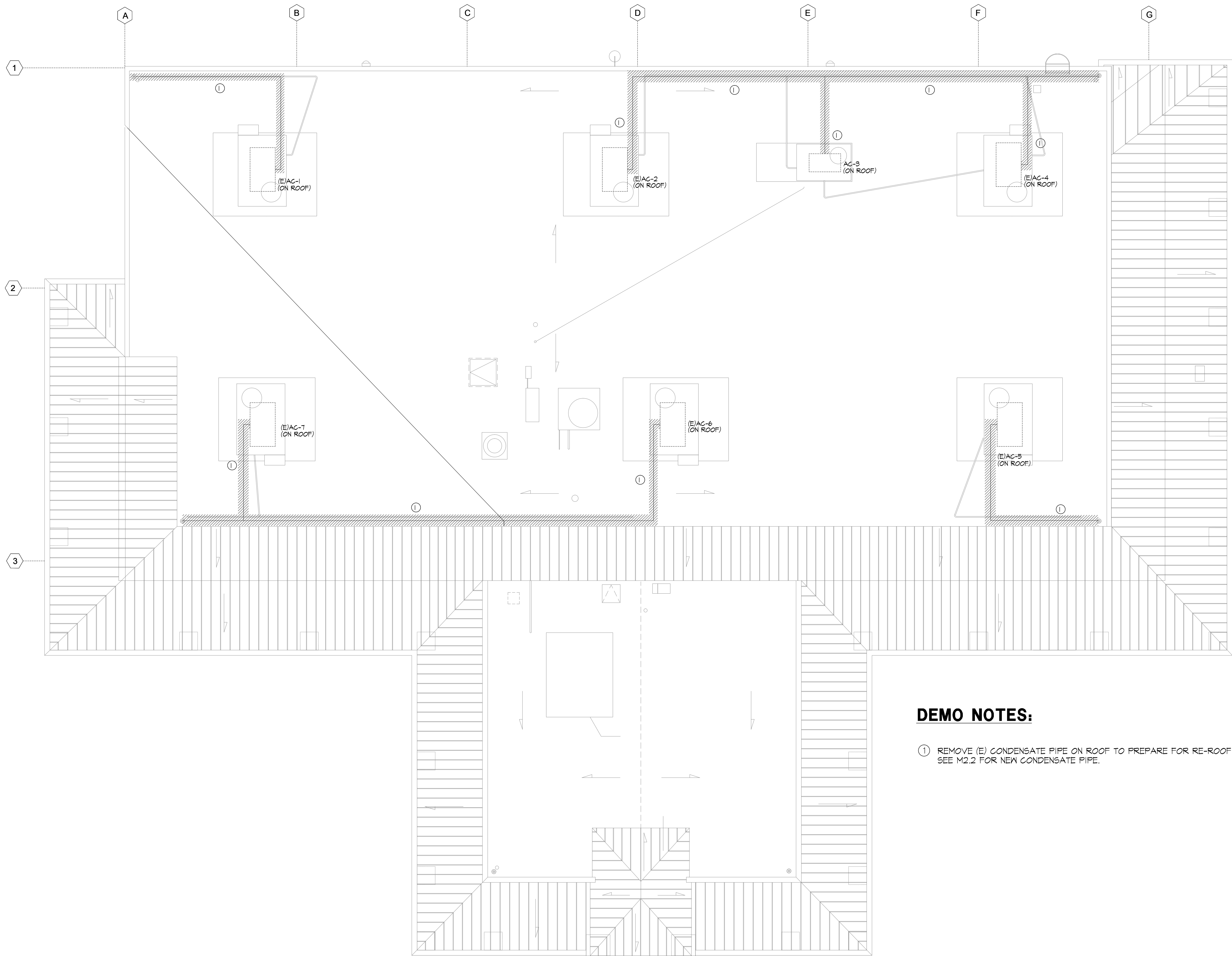


SCALE: 1/8" = 1'-0"
DATE:
PROJECT NO.:
PERMIT APPLICATION NO.:

MECHANICAL ROOF PLAN

M2.2





DEMO NOTES:

- ① REMOVE (E) CONDENSATE PIPE ON ROOF TO PREPARE FOR RE-ROOFING. SEE M2.2 FOR NEW CONDENSATE PIPE.

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KEY PLAN:

FILE: 48-C1

IDENTIFICATION STAMP

DIVISION OF THE STATE ARCHITECT

02-116082

AC_ JCC FLs GBC ssPVL

DATE: 10/31/2017

SCALE: 1/8" = 1'-0"
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MECHANICAL DEMO ROOF
PLAN

M2.2D

OWNER:

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PROJECT:

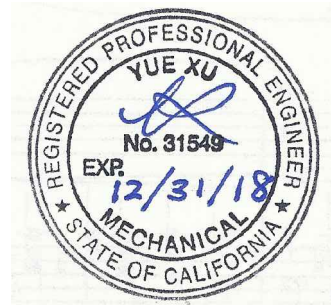
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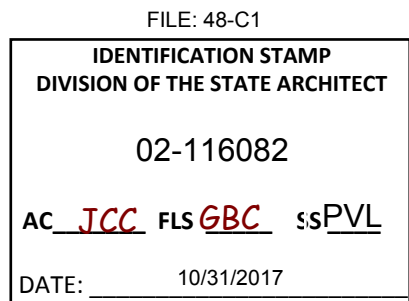


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KEY PLAN:



SCALE: _____
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PERMIT APPLICATION NO.: _____

MECHANICAL SCHEDULE

M4.1

(E) ROOFTOP UNIT SCHEDULE

MARK	MFG & MODEL NO. "TRANE"	HEATING PERFORMANCE		COOLING PERFORMANCE- ARI		FAN PERFORMANCE				ELECTRICAL DATA			WEIGHT (LBS)	COMMENTS
		HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	COOLING OUTPUT (MBH) SENSIBLE / TOTAL	COOLING EFFICIENCY EER / SEER	CFM	E.S.P. (IN. WG)	RPM	BHP	NOM. VOLTAGE V-PH-HZ	MCA	MOCP		
(E)AG-1	YHD074 6TON UNIT	-	-	-	-	2400	-		-	-	-	-	-	① ② ④
(E)AG-2	YHD074 6TON UNIT	-	-	-	-	2400	-		-	-	-	-	-	① ② ④
(E)AG-3	YCC036 3TON UNIT	-	-	-	-	1200	-		-	-	-	-	-	① ③
(E)AG-4	YCD091 7-1/2TON UNIT	-	-	-	-	3000	-		-	-	-	-	-	① ④ ⑤
(E)AG-5	YHD074 6TON UNIT	-	-	-	-	2400	-		-	-	-	-	-	① ④ ⑤
(E)AG-6	YHD074 6TON UNIT	-	-	-	-	2400	-		-	-	-	-	-	① ④ ⑤
(E)AG-7	YHD074 6TON UNIT	-	-	-	-	2400	-		-	-	-	-	-	① ② ④

NOTES: ① REPLACE EXISTING AIR FILTER WITH MERV 8 AIR FILTER ② BALANCE MIN. OSA TO 750CFM
③ BALANCE MIN. OSA TO 300CFM ④ PROVIDE SMOKE DETECTOR IN SUPPLY DUCT FOR FAN SHUTDOWN ⑤ BALANCE MIN. OSA TO 500CFM

(E) FAN COIL UNIT SCHEDULE

MARK	MANUFACTURER & MODEL NO.	HEATING PERFORMANCE		COOLING PERFORMANCE- ARI		FAN PERFORMANCE				ELECTRICAL DATA			WEIGHT (LBS)	COMMENTS
		HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	COOLING OUTPUT (MBH) SENSIBLE / TOTAL	COOLING EFFICIENCY EER / SEER	CFM	E.S.P. (IN. WG)	RPM	HP	NOM. VOLTAGE V-PH-HZ	MCA (AMP)	MOCP (AMP)		
(E)FC-1	"CARRIER" 7-1/2TON	-	-	-	-	3,000	-	-	-	-	-	-	-	① ②
(E)FC-2	"MITSUBISHI" 2TON	-	-	-	-	700	-	-	-	-	-	-	-	① IT ROOM UNIT

NOTES: ① REPLACE EXISTING AIR FILTER WITH MERV 8 AIR FILTER ② BALANCE MIN. OSA TO 500CFM

DIFFUSER, GRILLE AND REGISTER SCHEDULE

MARK	MANUFACTURER	MODEL	FACE SIZE	NECK SIZE	SERVICE	REMARKS
GD-1	TITUS	MCD	24"X24"	8"X8"	SUPPLY	LAY-IN
GD-2	TITUS	MCD	24"X24"	10"X10"	SUPPLY	LAY-IN
GD-3	TITUS	MCD	24"X24"	14"X14"	SUPPLY	LAY-IN
GD-4	TITUS	MCD	24"X24"	16"X16"	SUPPLY	LAY-IN
GD-5	TITUS	MCD	24"X24"	18"X18"	SUPPLY	LAY-IN
GD-6	TITUS	MCD	-	12"X12"	SUPPLY	SURFACE MOUNT
RG-1	TITUS	PAR	24"X24"	10"Φ	RETURN	LAY-IN
RG-2	TITUS	PAR	24"X24"	12"Φ	RETURN	LAY-IN
RG-3	TITUS	PAR	24"X24"	16"Φ	RETURN	LAY-IN
RG-4	TITUS	PAR	24"X24"	18"X18"	RETURN	LAY-IN
RG-5	TITUS	PAR	24"X24"	22"X22"	RETURN	LAY-IN
RG-6	TITUS	50F	-	12"X12"	RETURN	SURFACE MOUNT

NOTES: PROVIDE TRANSITION AS REQUIRED CONNECTING TO THE DIFFUSERS.

(E) CONDENSING UNIT SCHEDULE

(E) CONDENSING UNIT SCHEDULE												
MARK	MFR. MODEL NO.	ARI PERFORMANCE WITH LISTED COIL		SOUND RATING		ELECTRICAL DATA				WEIGHT LBS	SERVICE	REMARKS
						TOTAL CAP. (MBH)	SEER	BELS	FREE FIELD GBA			
		MCA	MOP	FLA								
(E)CU-1	"CARRIER" 38AG500B 7-1/2TON	-	-	-	-	-	-	-	-	-	(E)FC-1	
(E)CU-2	"MITSUBISHI" MUZ-6SL24 2TON	-	-	-	-	-	-	-	-	-	(E)FC-2	

(N) EXHAUST FAN SCHEDULE

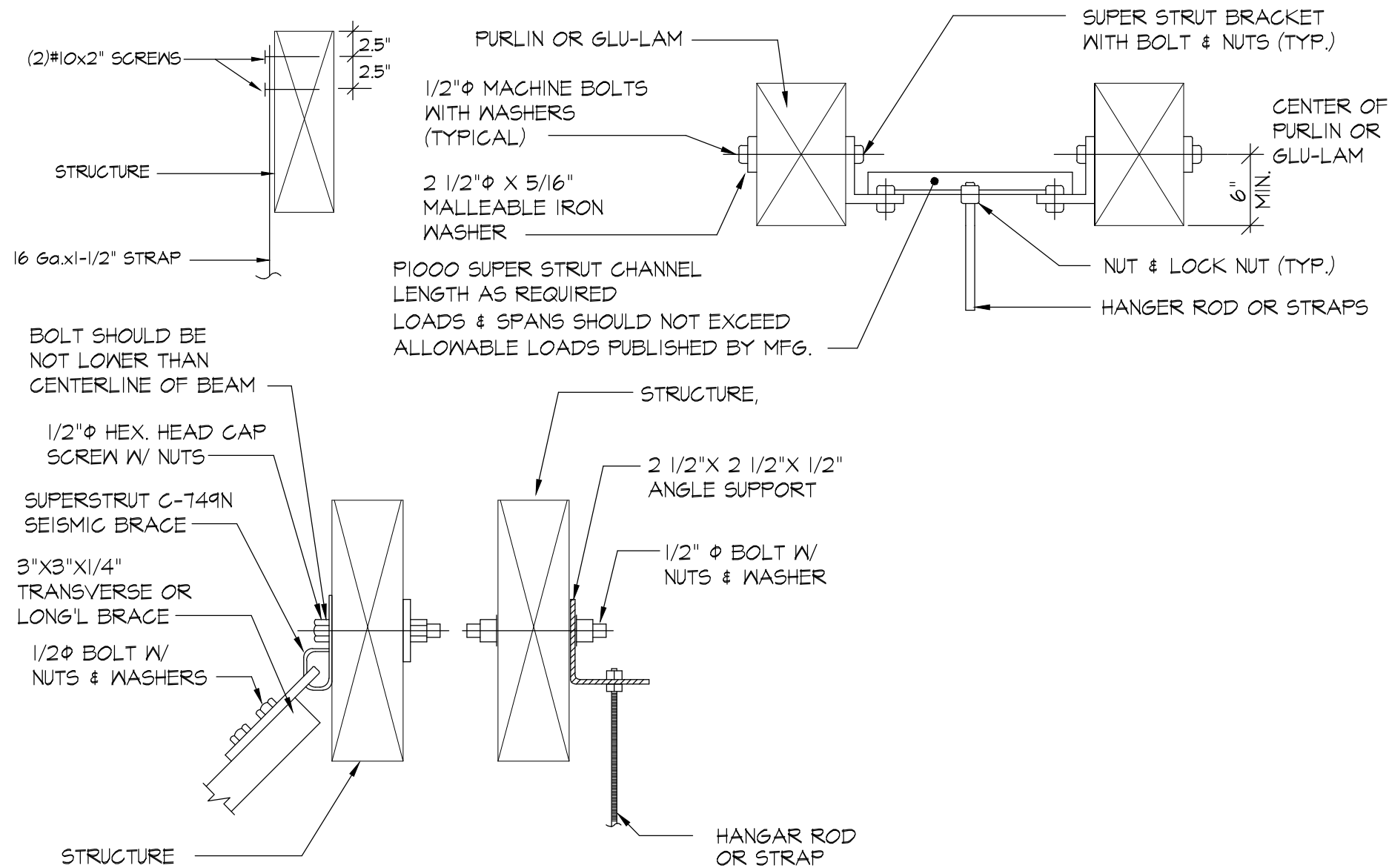
MARK	MANUFACTURER & MODEL NO. "GREENHECK"	FAN				MOTOR		CONTROLS BY	OPERATING WEIGHT LBS	REMARKS
		CFM	SP	RPM	SONES	HP	ELECTRICAL POWER			
EF-1	6-1B3-V6	3,000	0.5	430	-	3/4HP	115/1/60	①	200	②

NOTES: ① INTERLOCKED W/ FC-1 ECONOMIZER ② W/ PRE-FAB CURB, BACKDRAFT DAMPER & BIRD SCREEN

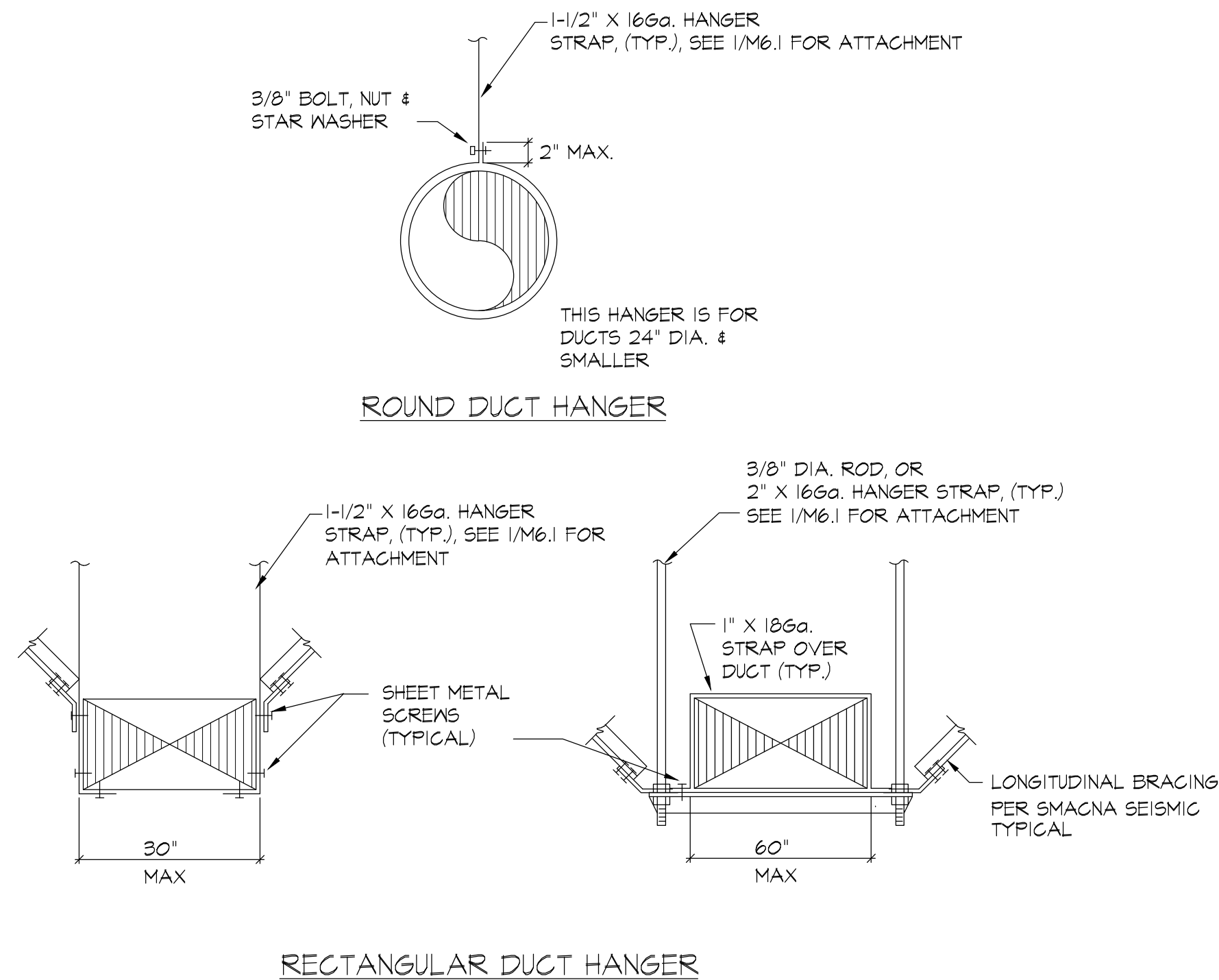
(N) GRAVITY AIR INTAKE

MARK	MANUFACTURER & MODEL NO. "GREENHECK"	CFM	SP	OPERATING WEIGHT LBS	REMARKS
GA-1	F61 20X48	3,000	0.05	200	①

NOTES: ① W/ PRE-FAB CURB, BACKDRAFT DAMPER & BIRD SCREEN

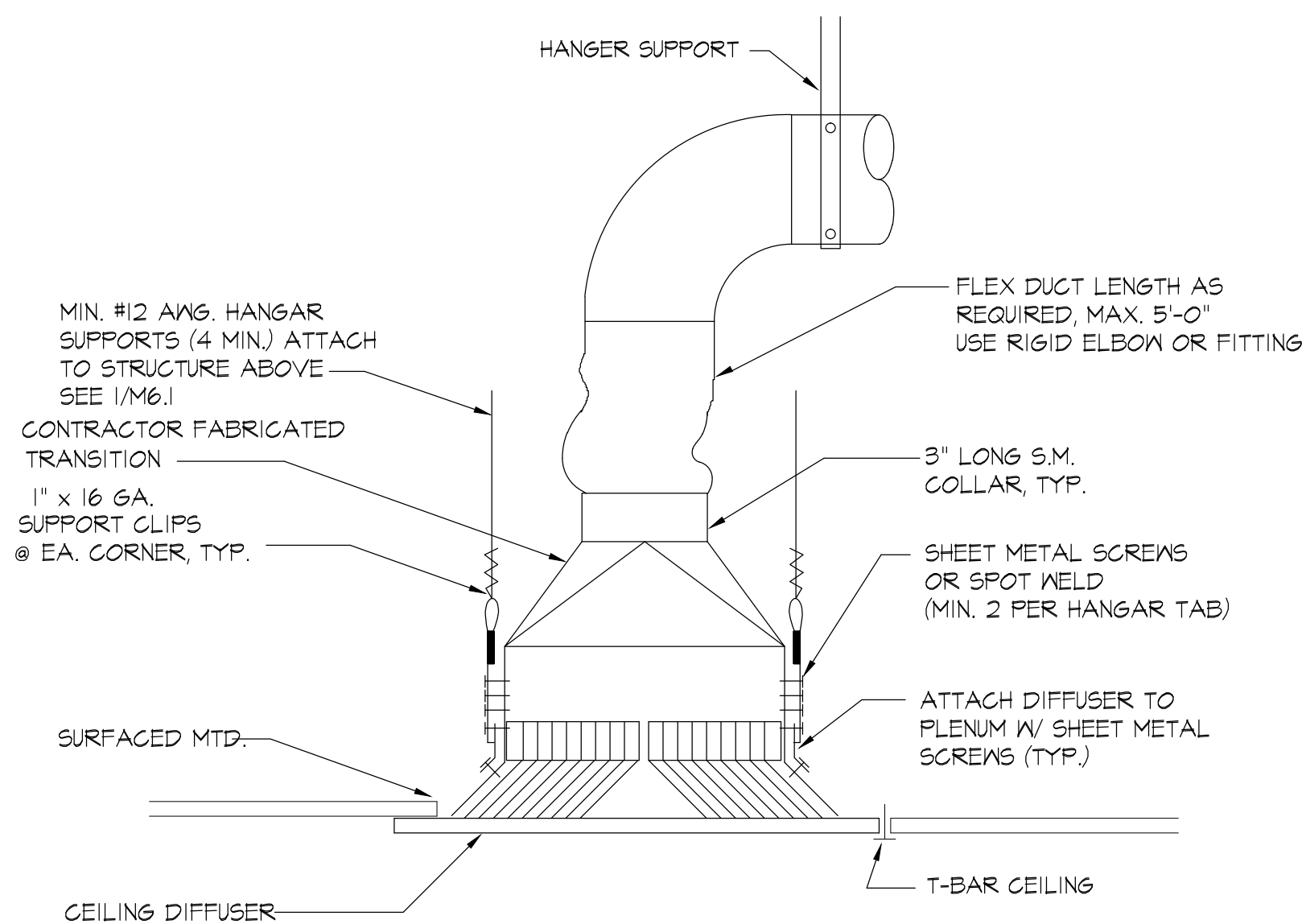


1 ATTACHMENT DETAIL
M6.1 NOT TO SCALE

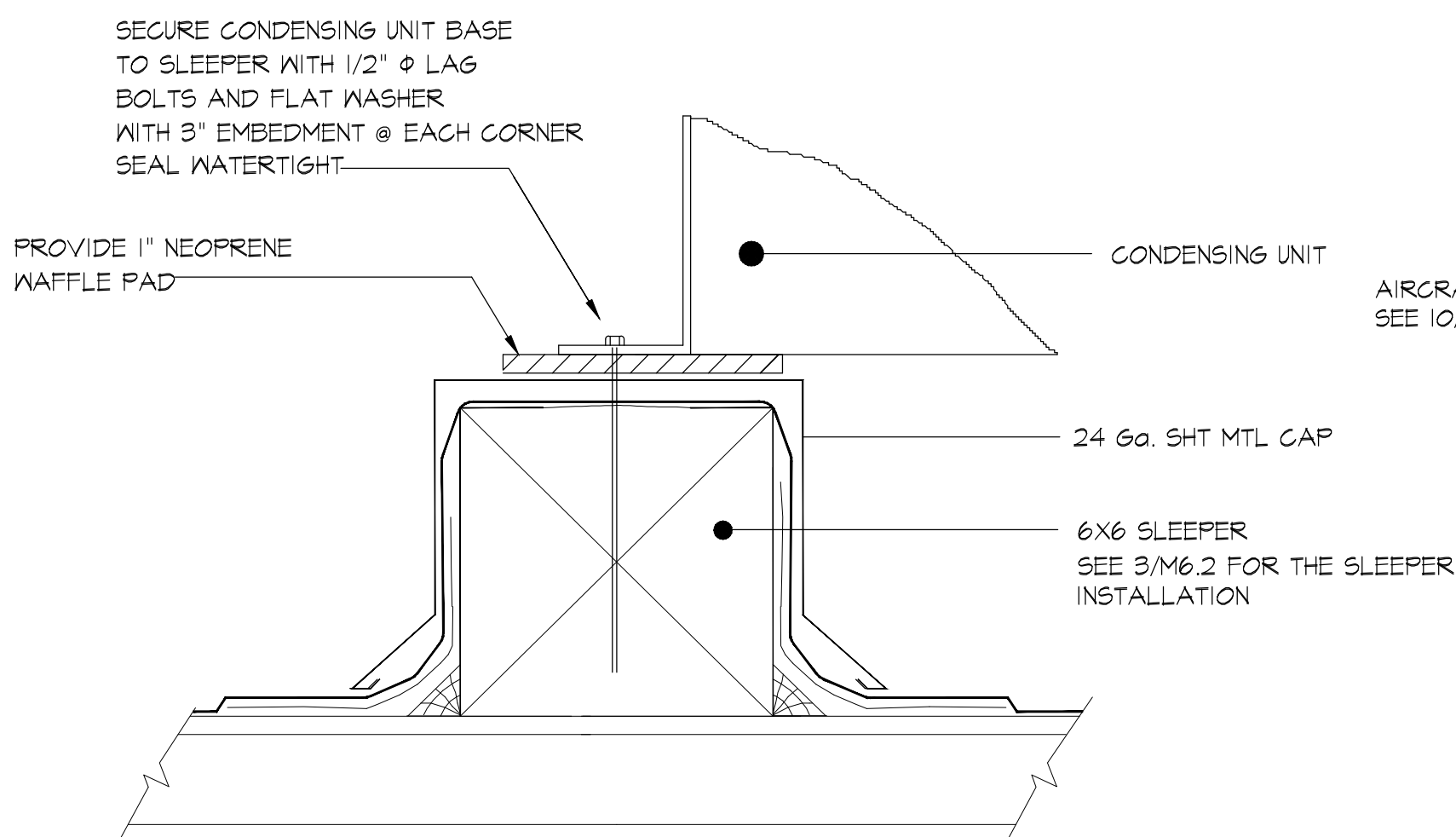


NOTES:
PROVIDE SWAY & SEISMIC BRACING PER SMACNA SEISMIC GUIDELINES.

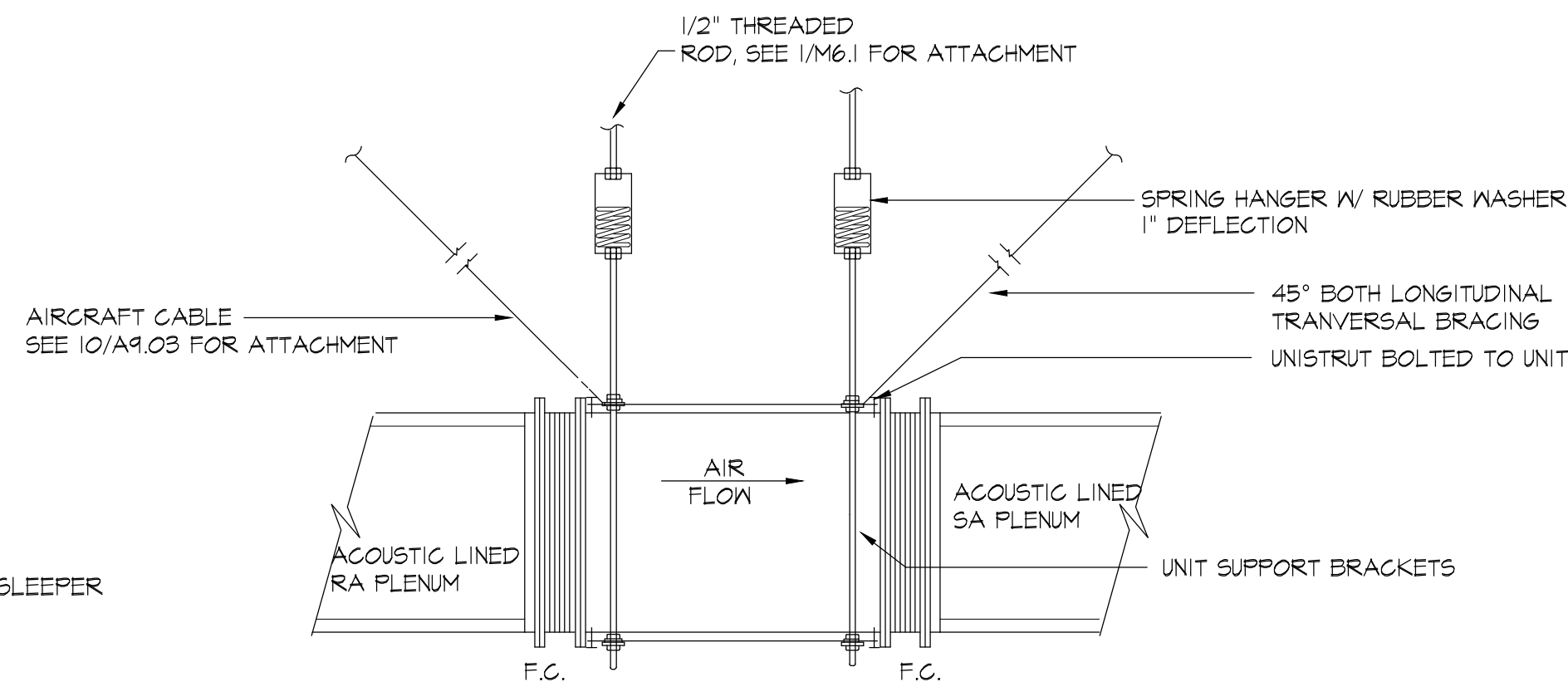
2 DUCT HANGER SUPPORT DETAIL
M6.1 SCALE: NONE



3 DIFFUSER INSTALLATION DETAIL
M6.1 NOT TO SCALE



4 CONDENSING UNIT INSTALLATION DETAIL
M6.1 SCALE: NONE



5 FAN COIL INSTALLATION DETAIL
M6.1 SCALE: NONE

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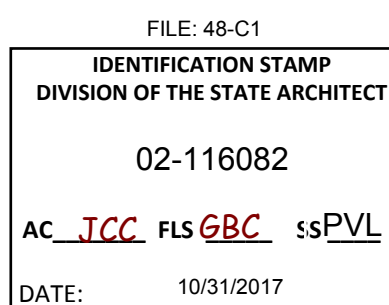


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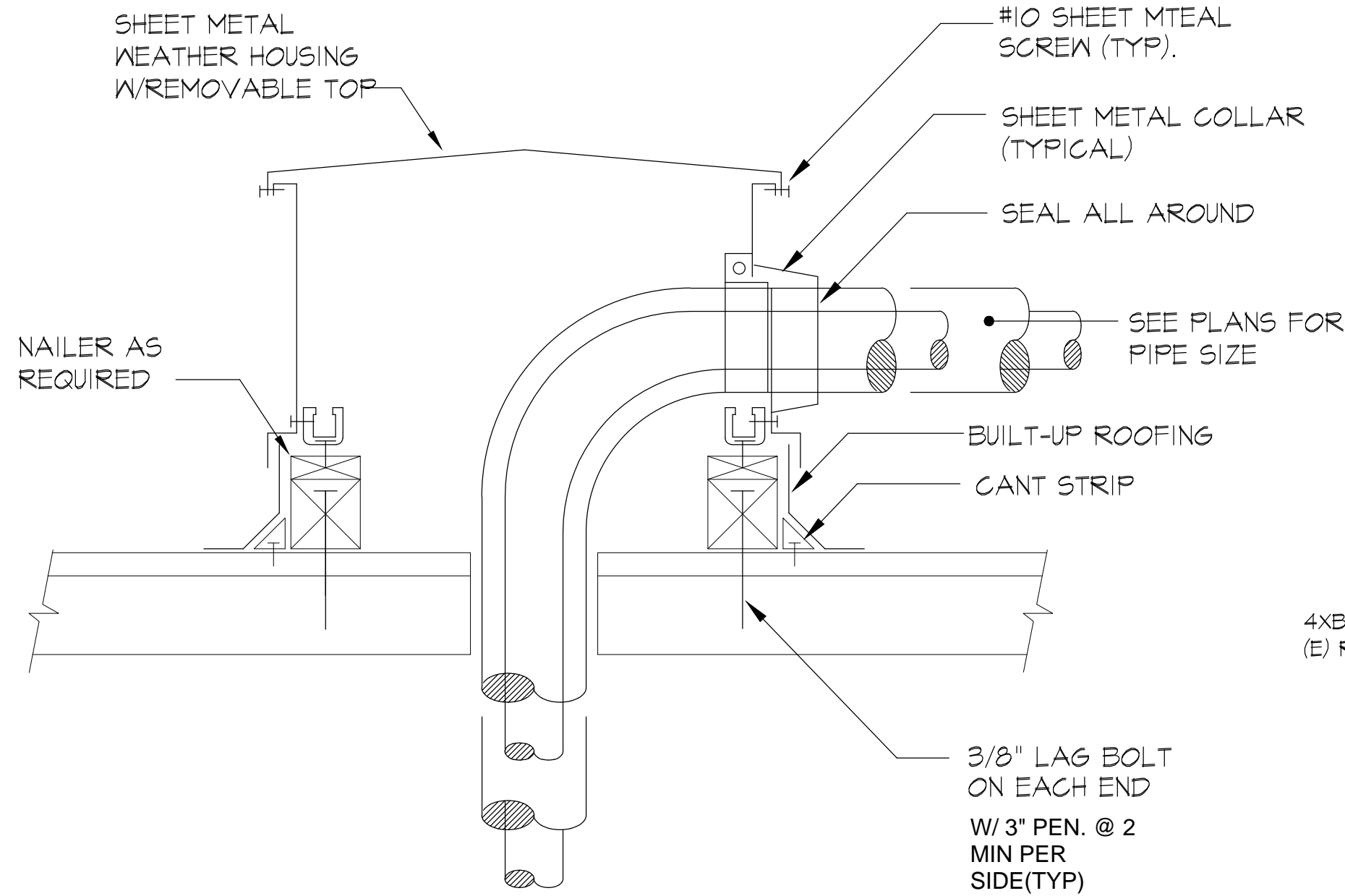
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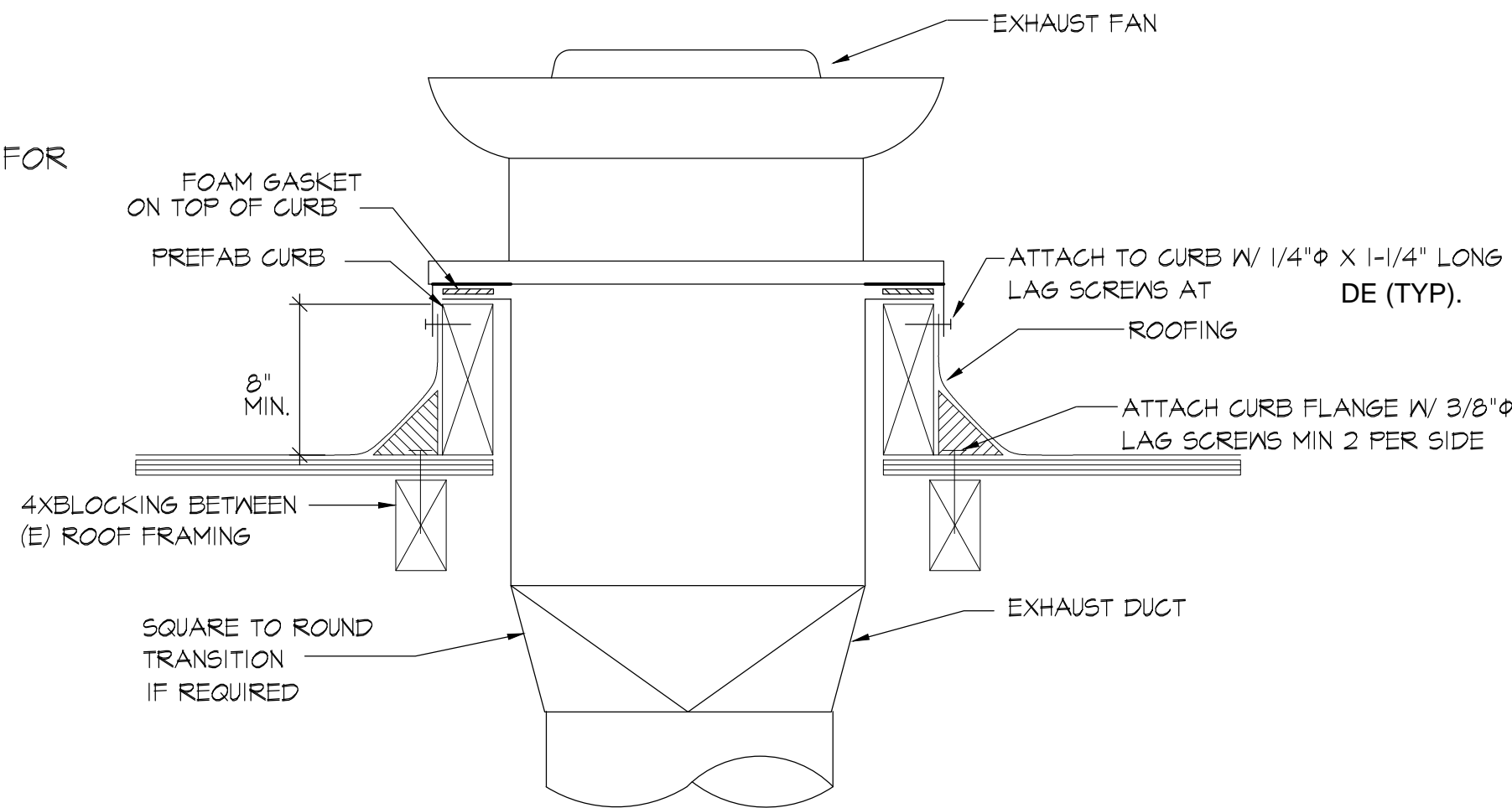
PERMIT APPLICATION NO.:

MECHANICAL DETAILS

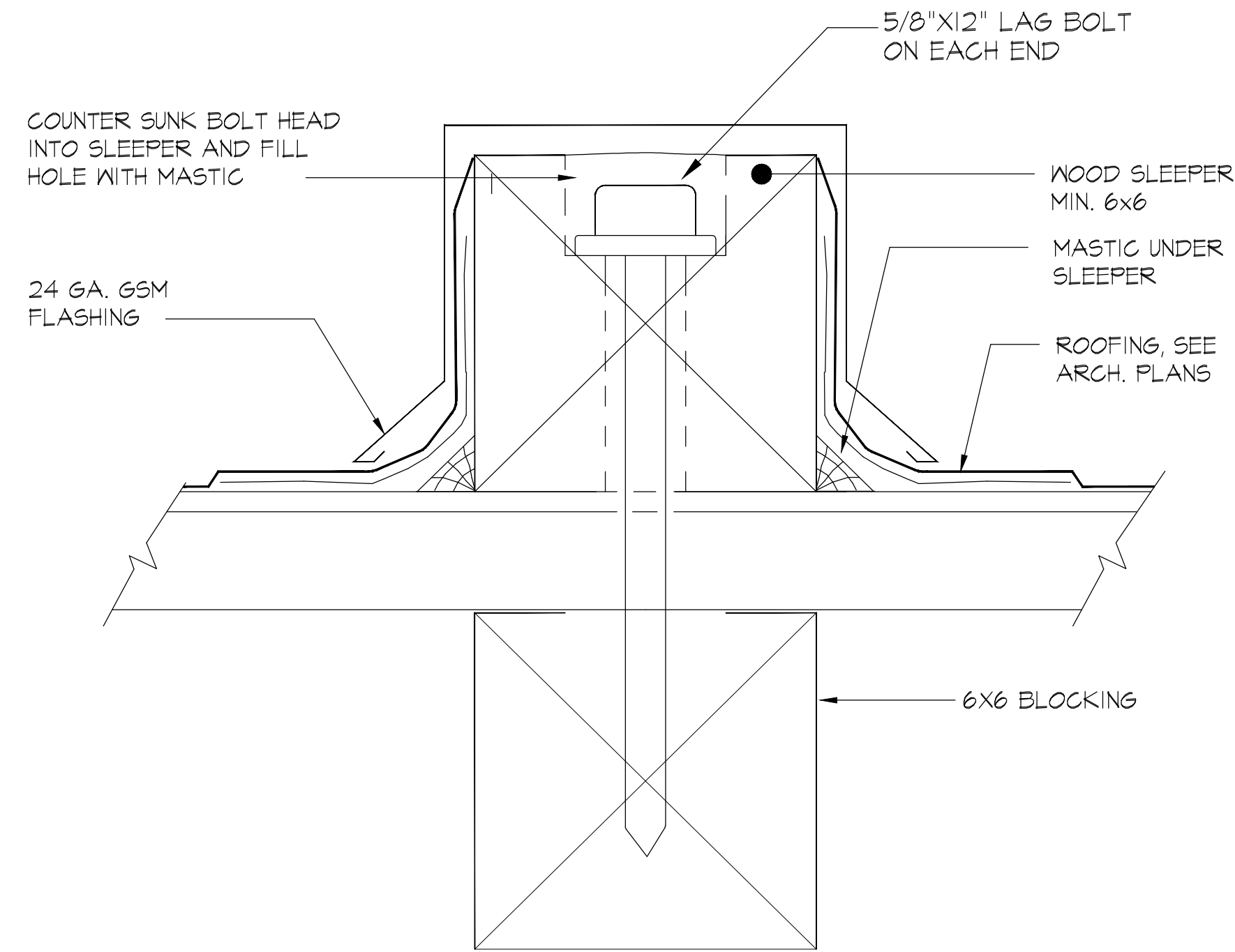
M6.1



1 RS/RL PIPE THRU ROOF DETAIL
M6.2 NOT TO SCALE



2 EXH FAN MOUNTING DETAIL
M6.2 NOT TO SCALE
FAI INSTALLATION SIMILAR



3 SLEEPER MOUNTING DETAIL
M6.2 NOT TO SCALE
TYP. FOR GAS PIPE AND CONDENSING UNIT

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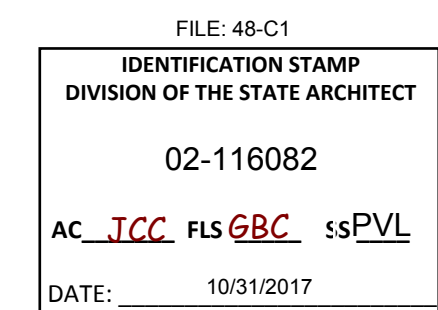
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MECHANICAL DETAILS

M6.2

OWNER:

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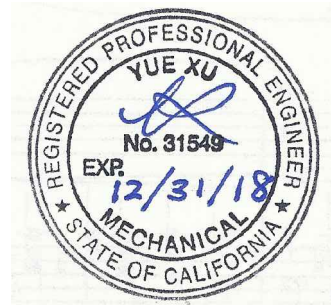
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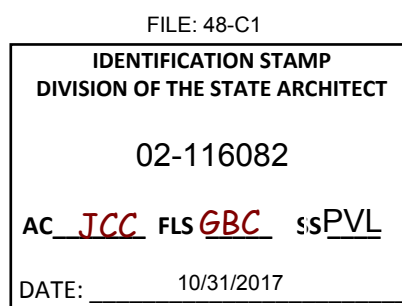


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PLUMBING NOTES, SYMBOL,
LEGEND AND SCHEDULE

P0.1

PLUMBING SYMBOLS AND ABBREVIATIONS

AFF	ABOVE FINISH FLOOR	— G —	GAS
BFP	BACKFLOW PREVENTER ASSEMBLY		
COTG	CLEAN OUT TO GRADE	—	VENT PIPING
CM	COLD WATER	—	COLD WATER LINE
(E)	EXISTING	—	HOT WATER LINE
EXH	ELECTRIC WATER HEATER		SANITARY SEWER
FU	FIXTURE UNIT	—	
FCO	FLOOR CLEANOUT	⌒	CLEAN OUT TO GRADE
FD	FLOOR DRAIN	⌒	PIPE DOWN
FS	FLOOR SINK	⌒	PIPE UP
G	GAS	⌒	PIPE DROP
GAH	GAS WATER HEATER		
GT	GREASE TRAP		
HM	HOT WATER	—	GATE VALVE
KS	KITCHEN SINK	—	TEMPERATURE & PRESSURE RELIEF VALVE
LAV	LAVATORY	—	FLOOR DRAIN
MV	MIXING VALVE	—	
(N)	NEW	—	
POC	POINT OF CONNECTION	—	WATER METER
SA	SHOCK ARRESTOR	—	
SK	SINK	—	SHUT-OFF VALVE IN "CHRISTY" CONCRETE BOX
SOV	SHUT-OFF VALVE	—	
SS	SANITARY SEWER	—	
TP	TRAP PRIMER	—	EXH - ELECTRIC WATER HEATER
(TYP)	TYPICAL	#####	(E) WORK TO BE REMOVED
UR	URINAL	—	PLUG OR CAP
V(T)/R	VENT (THRU) ROOF	—	
W	SANITARY WASTE	—	WALL CLEANOUT
WC	WATER CLOSET	—	
WCO	WALL CLEAN OUT	—	POINT OF CONNECTION (POC)

FIXTURE UNIT SCHEDULE : DCW

MARK	QTY	F.U.	TOTAL FUs
(E) WC FLUSH VALVE	8	-	145.0
(E) WC (TANK)	2	-	5.0
(E) LAV	8	1.0	8.0
(N) SK	1	2.0	2.0
(E) MOP SINK	1	3.0	3.0
(E) UR	4	-	53.0
(E) DF	2	-	2.0

TOTALS 24 - 218

BUILDING EXTERNAL PRESSURE LOSS

MIN.	PSI
(E) WATER METER	___ PSI
(E) BACK FLOW PREVENTER	___ PSI
(E) RESSURE REDUCING VALVE	___ PSI
PRESSURE AVAILABLE AT BUILDING ENTRANCE	___ PSI
	60 PSI

BUILDING INTERNAL PRESSURE LOSS

BUILDING STATIC PRESSURE HEIGHT	___ PSI
___ HEIGHT X 0.434 =	___ PSI
PRESSURE REQUIRED AT FIXTURE:	
FLUSH VALVE:	25 PSI
FLUSH TANK:	- PSI
BUILDING TOTAL LOSS:	35 PSI

AVAILABLE PRESSURE FOR FRICTION LOSS

TOTAL LENGTH 400 FT X F 1.2 = TOTAL EQUIVALENT LENGTH (T.E.L.) 480 FT	
35 ___ PSI X 100 FT = 480 T.E.L. =	1.3 PSI
USE 7 ___ PSI LOSS PER 100 FT	

(CHART A 1051, CPG-2016) - 2" CM SUPPLY SIZE REQUIRED
2"CM SUPPLY DESIGNED

FIXTURE AND EQUIPMENT SCHEDULE

MARK	FIXTURE / EQUIPMENT	MODEL NO.	CM	HN	W	VENT	TRIM / ACCDESSORIES	REMARKS
WC	WATER CLOSET	-	1-1/4"		4"	2"		EXISTING
DF	DRINKING FOUNTAIN	-	1/2"		2"	1-1/2"		EXISTING
SK	SINK ACCESSIBLE	"JUST" SL-ADA-1921-A-GR	1/2"	1/2"	2"	1-1/2"	"CHICAGO FAUCETS" T86-E2805-5ABCF, 0.5 GPM	
RD	ROOF DRAIN	"ZURN" Z-100-1G			4"		DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE POLYDOME	
OD	OVERFLOW DRAIN	"ZURN" Z-100-1G			4"		DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE POLYDOME PROVIDE OVERFLOW DRAIN WITH 2" WATER DAM COLLAR	

GENERAL NOTES

- ALL NEW CONSTRUCTION SHALL CONFORM TO APPLICABLE CODES, STANDARDS AND REQUIREMENTS.
- THE CONTRACTOR, PRIOR TO BIDDING, SHALL VISIT THE JOB SITE TO BECOME ACQUAINTED WITH THE EXISTING INSTALLATION AND SYSTEMS RELATED TO HIS WORK, AND SHALL INCLUDE IN THE BID PROPOSAL ALL LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION TO BE COMPLETE AND OPERATIVE.
- EXTREME CAUTION SHALL BE USED IN LOCATING (E) UNDERGROUND UTILITIES. ANY UTILITY AND EQUIPMENT DAMAGED BY CONTRACTOR DURING CONSTRUCTION, SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR TO ORIGINAL OR BETTER CONDITION AT NO INCREASE TO CONTRACT AMOUNT.
- THE CONTRACTOR SHALL COORDINATE PIPE ROUTING AND DROPS WITH OTHER TRADES PRIOR TO START OF WORK.
- ELECTRONICALLY LOCATE (E) UNDERGROUND LINES PRIOR TO START OF WORK, AND "POTHOLE" TO DISCOVER AND VERIFY EXACT LOCATIONS PRIOR TO TRENCHING.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER UPON DISCOVERY OF ANY FIELD CONFLICTS.
- PIPES SHALL BE SUPPORTED AND BRACED PER SMAGNA GUIDELINES FOR SEISMIC RESTRAINTS OF PLUMBING SYSTEM.
- CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF PIPING IN CEILING SPACE FOR POSSIBLE INTERFERENCE WITH DUCTWORK, LIGHTING FIXTURES, CONDUITS, CABLE TRAYS, ETC.
- DRAWINGS ARE DIAGRAMMATIC AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED FOR EXACT LOCATION, SIZES AND INVERT ELEVATION OF EXISTING UTILITIES. THE PROPOSED POINT OF CONNECTIONS TO EXISTING SYSTEMS AND NEW ROUTINGS.

- PROVIDE PERMANENT IDENTIFICATION SIGN ON THE LID OF ALL ABANDONED SHUT-OFF VALVE CONCRETE BOXES. PROVIDE PERMANENT IDENTIFICATION SIGN ("GAS" OR "WATER") ON THE LID OF ALL NEW INSTALLED SHUT-OFF VALVE CONCRETE BOXES.
- PLUMBING SYSTEM SHALL BE INSTALLED IN A MANNER CONFORMING TO 2016 CPG CODE AND THE MANUFACTURER'S RECOMMENDATIONS.

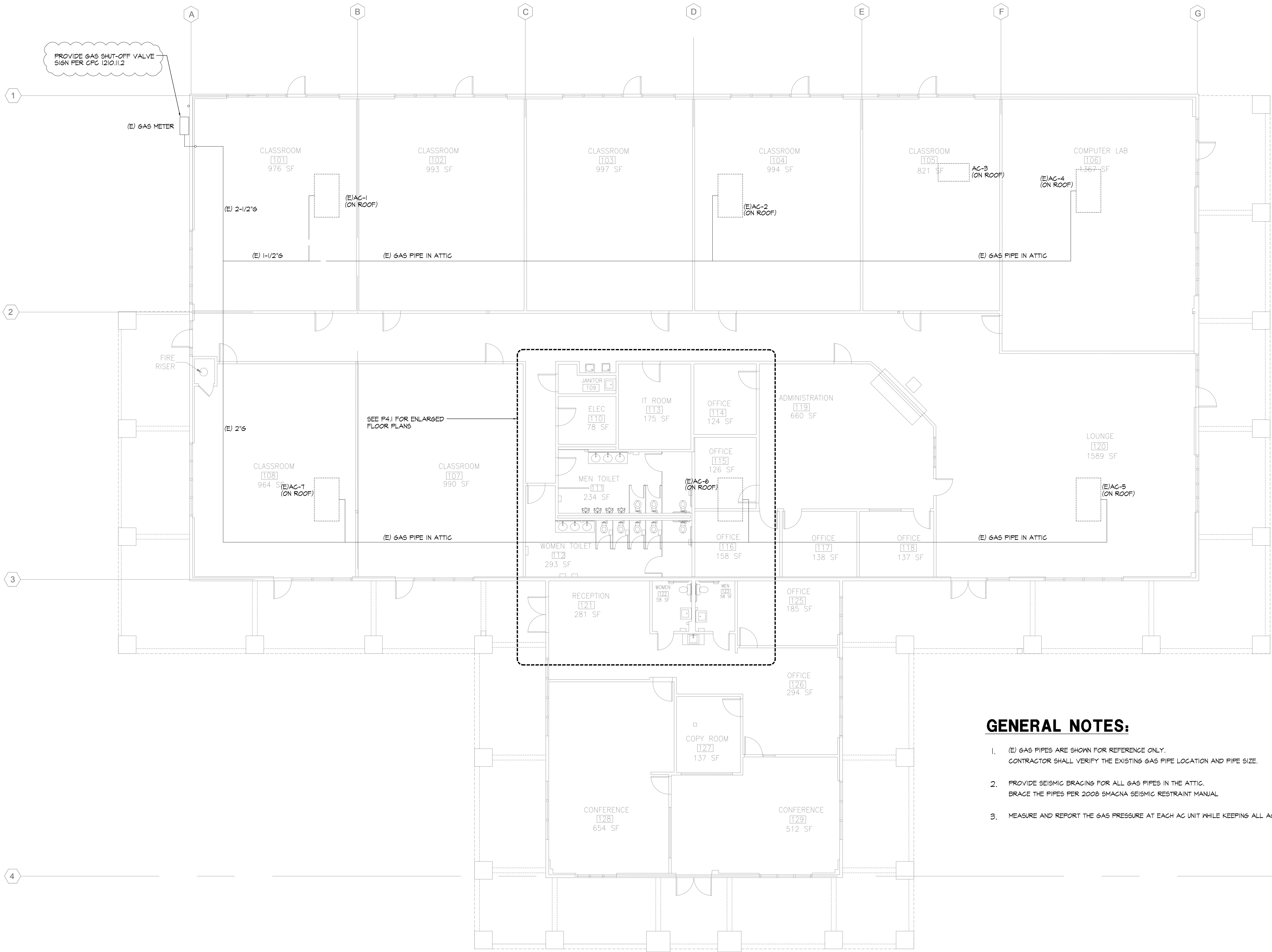
COLD/HOT WATER PIPE ABOVE GRADE - TYPE L COPPER, 95/5 SOLDERED
SEWER/VENT PIPE BELOW OR ABOVE GRADE - HUBLESS CAST IRON W/ SLEEVE-CLAMPED JOINTS
GAS PIPE ABOVE GRADE - SCHEDULE 40 BLACK STEEL W/ THREADED FITTING, OR GALVANIZED WHERE EXPOSED TO WEATHER.
- PRESSURE TEST PLUMBING SYSTEM AS FOLLOWING:
WATER PIPE - 100 PSI W/ WATER, 4 HOURS
DRAINAGE AND VENT PIPE - 10 FT. WATER, 4 HOURS
GAS PIPE - 10 PSI W/ AIR, 24 HOURS

PLUMBING SCOPE OF WORK

THE PLUMBING SCOPE OF WORK UNDER THIS APPLICATION IS TO REMOVE AND RE-INSTALL PLUMBING FIXTURES FOR ADA OR STRUCTURAL REQUIREMENT.

DRAWING INDEX

P0.1	PLUMBING NOTES, SYMBOL, LEGEND AND SCHEDULE
P2.1	PLUMBING FLOOR PLAN
P2.1D	PLUMBING DEMO FLOOR PLAN
P2.2D	PLUMBING DEMO ROOF PLAN
P4.1	ENLARGED PLUMBING FLOOR PLAN
P6.1	PLUMBING DETAILS



GENERAL NOTES:

- (E) GAS PIPES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY THE EXISTING GAS PIPE LOCATION AND PIPE SIZE.
- PROVIDE SEISMIC BRACINGS FOR ALL GAS PIPES IN THE ATTIC. BRACE THE PIPES PER 2008 SMACNA SEISMIC RESTRAINT MANUAL.
- MEASURE AND REPORT THE GAS PRESSURE AT EACH AC UNIT WHILE KEEPING ALL AC UNITS ON HEATING MODE.

OWNER:

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PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

EXCEL ENGINEERS

825 ORANGE AVE.
SUNNYVALE, CA 94087
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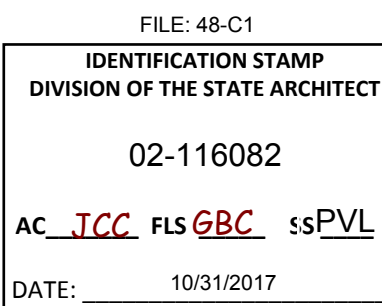


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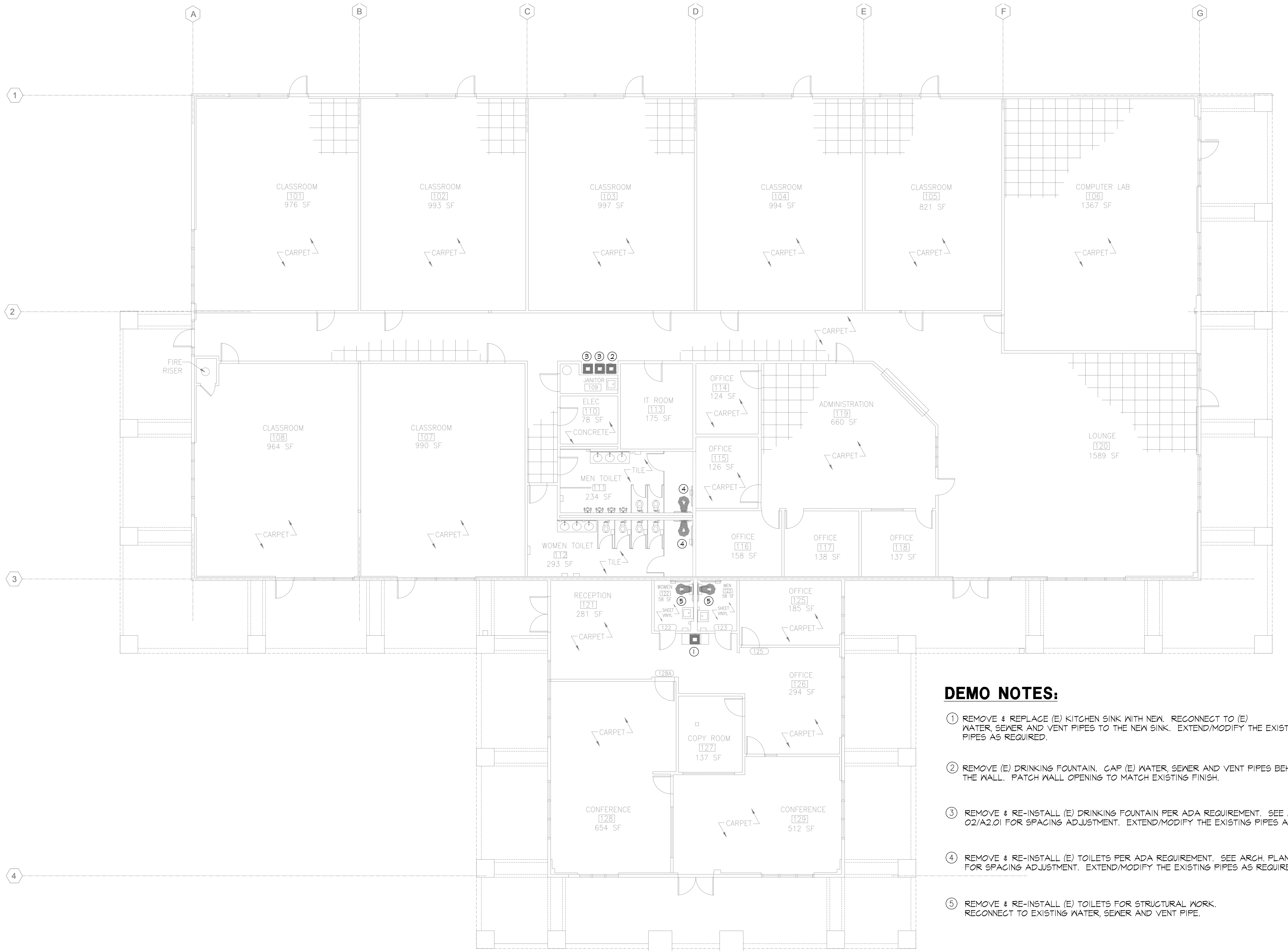
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KEY PLAN:



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PLUMBING FLOOR PLAN



DEMO NOTES:

- 1 REMOVE & REPLACE (E) KITCHEN SINK WITH NEW. RECONNECT TO (E) WATER, SEWER AND VENT PIPES TO THE NEW SINK. EXTEND/MODIFY THE EXISTING PIPES AS REQUIRED.
- 2 REMOVE (E) DRINKING FOUNTAIN. CAP (E) WATER, SEWER AND VENT PIPES BEHIND THE WALL. PATCH WALL OPENING TO MATCH EXISTING FINISH.
- 3 REMOVE & RE-INSTALL (E) DRINKING FOUNTAIN PER ADA REQUIREMENT. SEE ARCH. PLAN 02/A2.01 FOR SPACING ADJUSTMENT. EXTEND/MODIFY THE EXISTING PIPES AS REQUIRED.
- 4 REMOVE & RE-INSTALL (E) TOILETS PER ADA REQUIREMENT. SEE ARCH. PLAN 10/A2.01 FOR SPACING ADJUSTMENT. EXTEND/MODIFY THE EXISTING PIPES AS REQUIRED.
- 5 REMOVE & RE-INSTALL (E) TOILETS FOR STRUCTURAL WORK. RECONNECT TO EXISTING WATER, SEWER AND VENT PIPE.

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FILE: 48-C1

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DIVISION OF THE STATE ARCHITECT

02-116082

AC JCC FLs GBC ss PVL

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PLUMBING DEMO FLOOR
PLAN

Solano Community College District
 2000 North Village Parkway
 Vacaville, CA 95688

PROJECT:

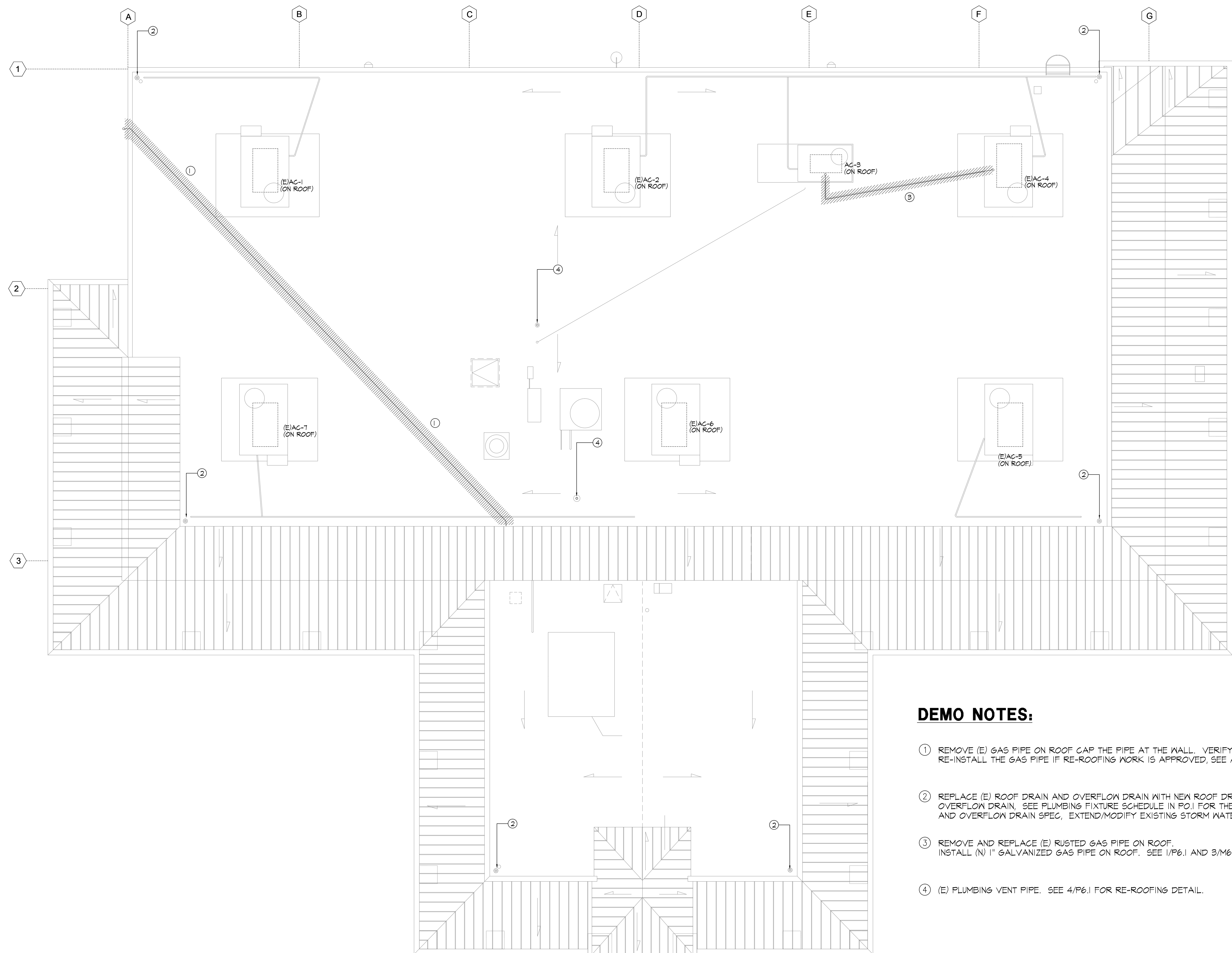
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PLUMBING DEMO ROOF PLAN

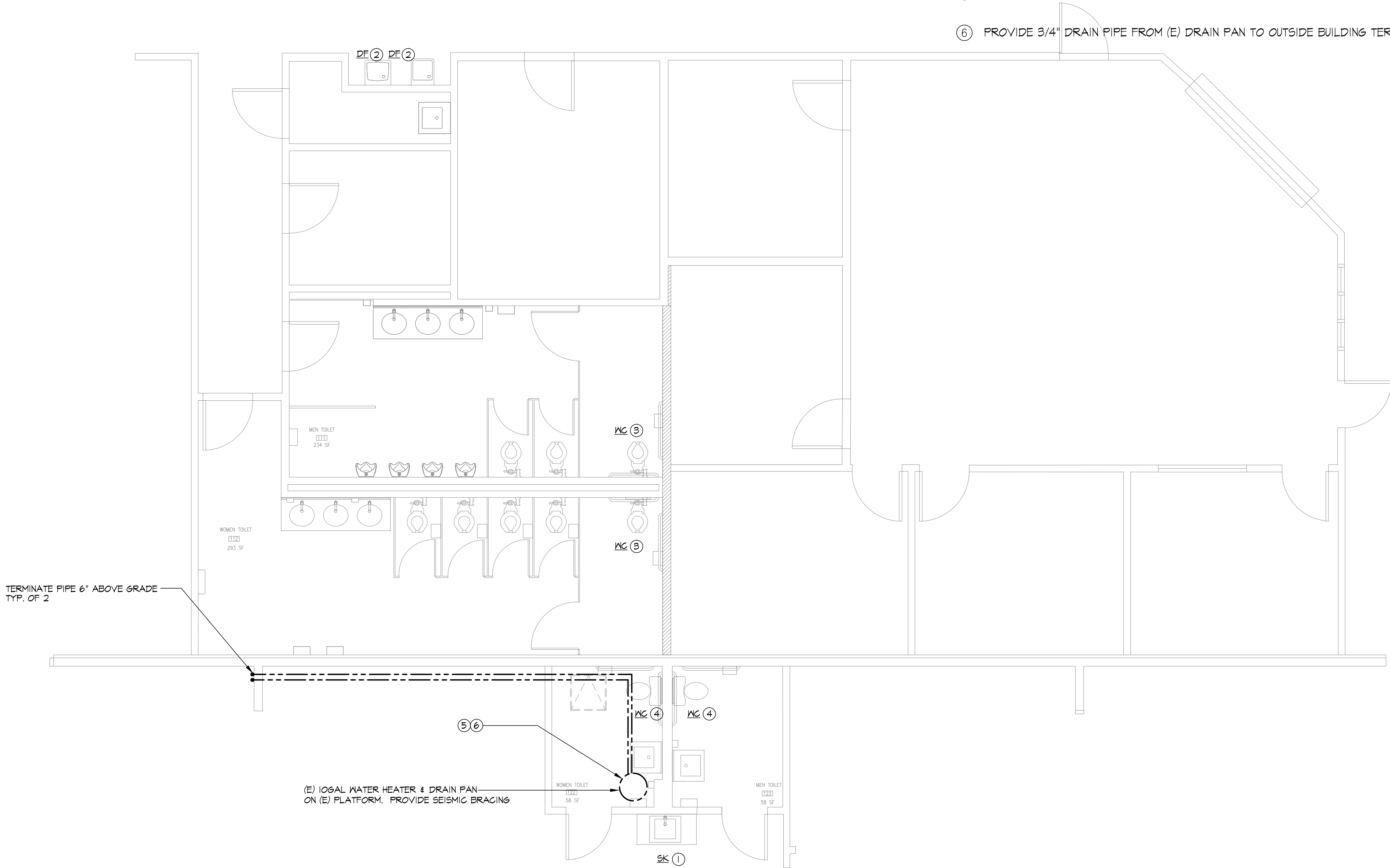
P2.2D



- ① REMOVE (E) GAS PIPE ON ROOF CAP THE PIPE AT THE WALL. VERIFY IN FIELD RE-INSTALL THE GAS PIPE IF RE-ROOFING WORK IS APPROVED. SEE ARCH PLAN A1.01ALT
- ② REPLACE (E) ROOF DRAIN AND OVERFLOW DRAIN WITH NEW ROOF DRAIN AND OVERFLOW DRAIN. SEE PLUMBING FIXTURE SCHEDULE IN P.O.I FOR THE NEW ROOF DRAIN AND OVERFLOW DRAIN SPEC. EXTEND/MODIFY EXISTING STORM WATER PIPE AS REQUIRED.
- ③ REMOVE AND REPLACE (E) RUSTED GAS PIPE ON ROOF. INSTALL (N) 1" GALVANIZED GAS PIPE ON ROOF. SEE 1/P6.1 AND 3/M6.2 FOR DETAIL.
- ④ (E) PLUMBING VENT PIPE. SEE 4/P6.1 FOR RE-ROOFING DETAIL.

SHEET NOTES:

- ① REMOVE & REPLACE (E) KITCHEN SINK WITH NEW. RECONNECT TO (E) WATER, SEWER AND VENT PIPES TO THE NEW SINK. EXTEND/MODIFY THE EXISTING PIPES AS REQUIRED.
- ② RE-INSTALL (E) DRINKING FOUNTAIN PER ADA REQUIREMENT. SEE ARCH. PLAN 02/A2.01 FOR SPACING ADJUSTMENT. EXTEND/MODIFY THE EXISTING PIPES AS REQUIRED.
- ③ RE-INSTALL (E) TOILET PER ADA REQUIREMENT. SEE ARCH. PLAN FOR THE SPACE ADJUSTMENT. EXTEND/MODIFY THE EXISTING PIPES AS REQUIRED.
- ④ RE-INSTALL (E) TOILETS FOR STRUCTURAL WORK. RECONNECT TO (E) WATER, SEWER AND VENT PIPE.
- ⑤ PROVIDE FULL SIZE DRAIN PIPE FROM (E) ENH P&T RELIEVE VALVE TO OUTSIDE, TERMINATED 6" A.F.F
- ⑥ PROVIDE 3/4" DRAIN PIPE FROM (E) DRAIN PAN TO OUTSIDE BUILDING TERMINATED 6" A.F.F



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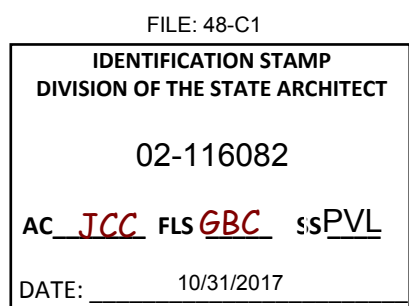


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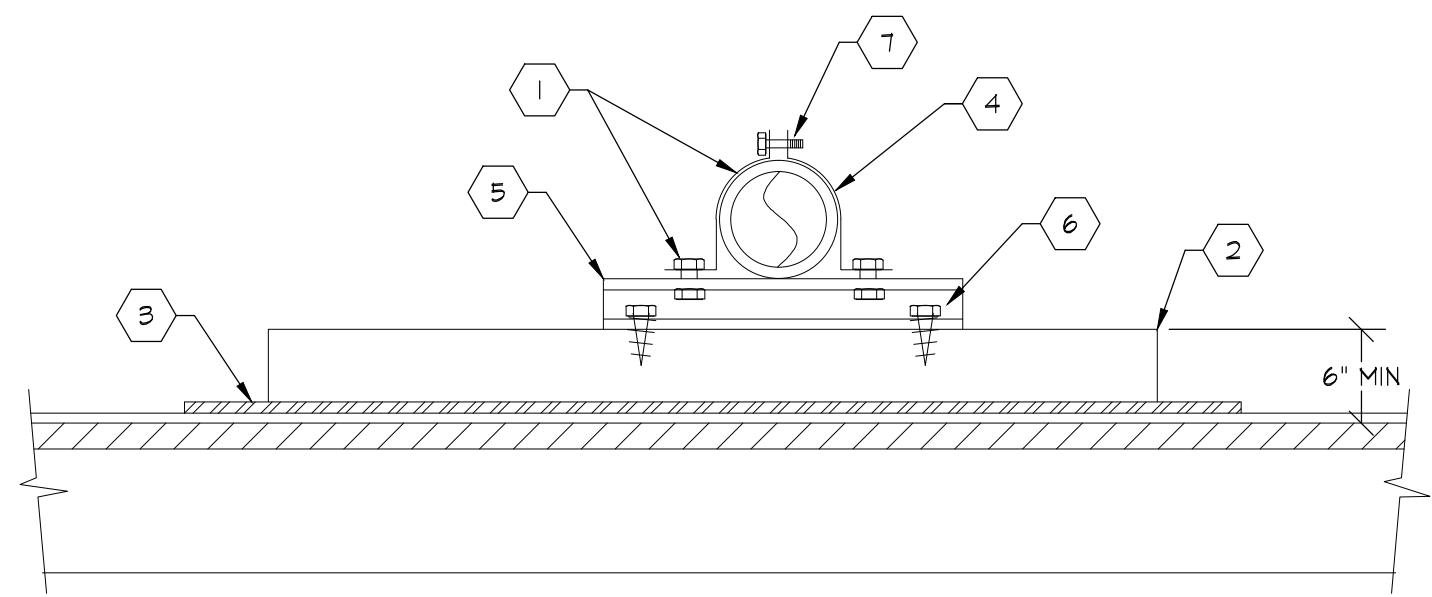
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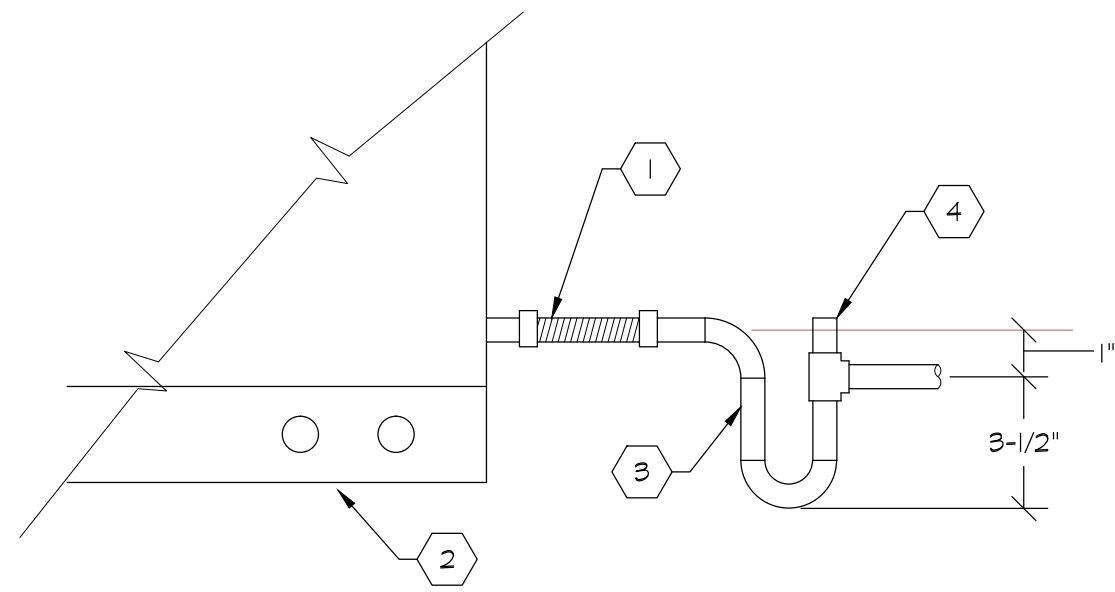
ENLARGED PLUMBING FLOOR
PLAN

P4.1



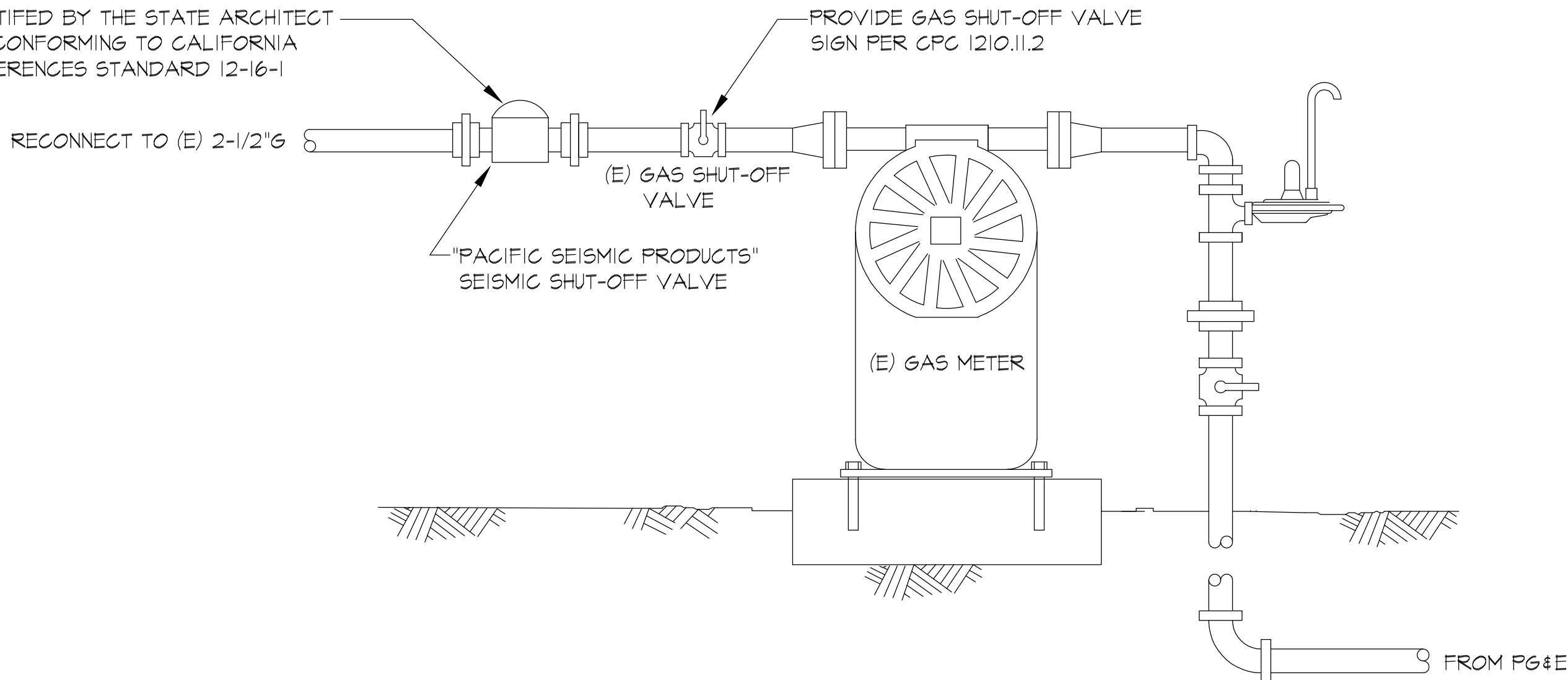
- 1 PIPE GUIDE - SECURE TO "UNISTRUT" W/ "UNISTRUT" NUTS & BOLTS.
- 2 REDWOOD SLEEPER OR PRESSURE TREATED SLEEPER 4" x 6" LENGTH TO SUIT. THICKNESS OF SLEEPER FOR CONDENSATE PIPING SHALL ALLOW FOR SLOPE FROM UNIT TO DRAIN. **SEE MECH FOR SLEEPER MOUNTING DETAILS (TPY)**
- 3 WALK PAD. MASTIC PAD TO SLEEPER AND ROOF. SEE 3/M6.2 FOR SLEEPER INSTALLATION FOR THE GAS PIPE AND CONDENSING UNIT.
- 4 UNIGUSHION AT EACH CLAMP.
- 5 "UNISTRUT" P-1000 CHANNEL.
- 6 3/8"Ø x 3" LONG LAG BOLT THRU INTO SLEEPER.
- 7 PIPE CLAMP.

NOTE: PIPE SUPPORTS SHALL BE INSTALLED & SPACED PER 2008 SMACNA SEISMIC RESTRAINT MANUAL.



- 1 CD CONNECTION W/ 4" LONG FLEXIBLE HOSE SECURED W/ STAINLESS STEEL CLAMPS AT ALL SPRING ISOLATED UNITS ONLY.
- 2 UNIT BASE.
- 3 TYPE "M" COPPER SOLDERED TRAP & PIPING SEE PLAN FOR SIZE.
- 4 TOP OF VENT @ CL OF CD OUTLET.

CERTIFIED BY THE STATE ARCHITECT AS CONFORMING TO CALIFORNIA REFERENCES STANDARD 12-16-1



1 PIPE ON ROOF DETAIL

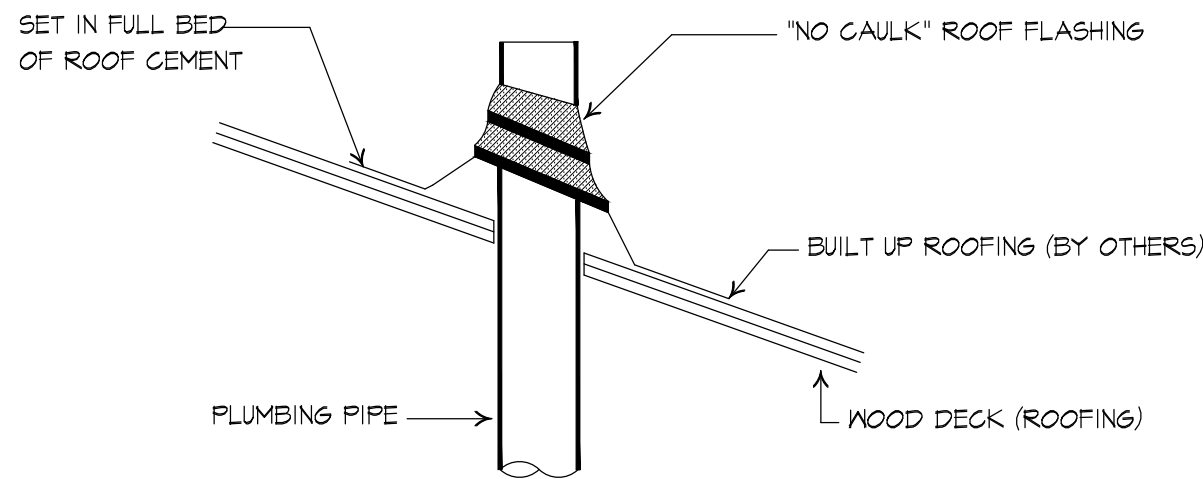
P6.1 NOT TO SCALE

2 CONDENSATE DRAIN DETAIL

P6.1 NOT TO SCALE

3 GAS METER & SEISMIC SHUT-OFF VALVE DETAIL

P6.1 NOT TO SCALE



NOTES:

1. SET FLASHING ON FINISHED ROOF PLIES AND STRIP-IN BEFORE SURFACING.
2. FLANGE TO EXTEND A MINIMUM OF 3".
3. USE "STONEMAN" SEAMLESS LEAD VERSA - FLASH ASSEMBLIES

4 VENT PIPE THRU ROOF DETAIL

P6.1 NOT TO SCALE

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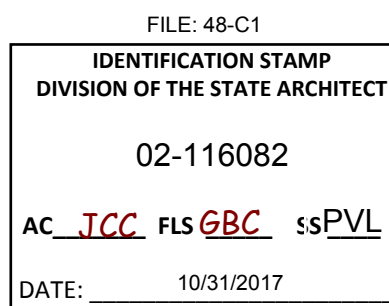


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PLUMBING DETAILS

P6.1

GENERAL

- A. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, 2016 EDITION (CBC).
- B. THESE NOTES APPLY TO ALL STRUCTURAL DRAWINGS AND GOVERN UNLESS OTHERWISE NOTED OR SPECIFIED.
- VERIFY ALL EXISTING CONDITIONS AND PROPOSED DIMENSIONS AT JOB SITE. COMPARE STRUCTURAL DRAWINGS WITH OTHER DISCIPLINE DRAWINGS BEFORE COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES AND DO NOT PROCEED WITH AFFECTED WORK UNTIL THEY ARE RESOLVED. DO NOT SCALE DRAWINGS. WHERE THERE IS A DISCREPANCY IN THE DRAWINGS, THE CONTRACTOR IS TO INCLUDE IN HIS OR HER BID THE MORE EXPENSIVE VERSION. COMPARE WITH ORIGINAL DRAWINGS TITLED "INTERIM COLLEGE FACILITY, NORTHVILLAGE" DATED 8-8-95 PREPARED BY MARR-SHAFFER & ASSOCIATES, CONSULTING STRUCTURAL ENGINEERS.
- C. UNLESS OTHERWISE SHOWN OR NOTED, ALL TYPICAL DETAILS SHALL BE USED AT SIMILAR CONDITIONS.
- D. SHOP DRAWINGS SHALL BE SUBMITTED AND REVIEWED BY THE ENGINEER BEFORE FABRICATION, FOR THE FOLLOWING ITEMS:
REINFORCING BARS
STRUCTURAL STEEL
MISCELLANEOUS STEEL

- E. SAFETY MEASURES: AT ALL TIMES THE CONTRACTOR(S) SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTIES, AND FOR ALL NECESSARY INDEPENDENT ENGINEERING REVIEWS OF THESE CONDITIONS (EXAMPLE: SHORING).

DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION INCLUDING, BUT NOT SOLELY LIMITED TO, SHORING AND TEMPORARY BRACING. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO INSURE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. OBSERVATION VISITS TO THE SITE BY THE ENGINEER OR CONSTRUCTION MANAGER SHALL NOT RELIEVE THE CONTRACTOR OF SUCH RESPONSIBILITY. SITE VISIT ARE NOT INTENDED TO REVIEW THE ADEQUACY OF THE CONTRACTOR(S) SAFETY MEASURES.

- F. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH THE WORK.

- G. DO NOT USE SCALED DIMENSIONS; USE WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

- H. ALL WORK AND MATERIALS NOT NOTED AS EXISTING (E) SHALL BE ASSUMED TO BE NEW (N) CONSTRUCTION.

- I. IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE CALLED FOR OR SHOWN.

- J. REQUIRED WORK SHALL INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, WORK CALLED FOR BY NOTES ON DRAWINGS. WHILE THE DRAWINGS INDICATE ITEMS TO BE REMOVED, REPLACED OR REWORKED, THEY MAY NOT NECESSARILY INDICATE ALL ASPECTS OF WORK REQUIRED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL ALL WORK NECESSARY TO COMPLETE AND FINISH ALL AREAS IN AND AROUND SUCH ITEMS.

- K. THE GENERAL CONTRACTOR MUST CAREFULLY SCRUTINIZE ALL DRAWINGS TO ASCERTAIN ALL REQUIRED WORK ARISING OUT OF WORK DONE BY MECHANICAL, PLUMBING, ELECTRICAL OR OTHER SUB-CONTRACTORS. FLOOR, WALL OR ROOF OPENINGS AS REQUIRED FOR SUCH TRADES SHALL BE VERIFIED FROM SHOP DRAWINGS, EQUIPMENT DATA, ETC.

- N. THE CONTRACTOR SHALL PROVIDE APPROPRIATE BARRIERS BETWEEN THE CONSTRUCTION AREA AND THE REMAINDER OF THE SITE OR BUILDING, AND SHALL COMPLY WITH CALIFORNIA BUILDING CODE (CBC) SECTION 3303 – PROTECTION OF PEDESTRIANS DURING CONSTRUCTION OR DEMOLITION. IN ADDITION, THE CONTRACTOR SHALL PROVIDE ANY OTHER CONSTRUCTION FENCING, BARRICADES, WARNING SIGNS AND LIGHTS, AND SHALL EXERCISE ALL SAFETY MEASURES NECESSARY TO PROTECT AND RENDER THE PREMISES.

- O. WHERE DEMOLITION OR OTHER DUST PRODUCING WORK IS PERFORMED ON BUILDING INTERIORS, PLASTIC DUST BARRIERS MUST BE ERECTED TO PREVENT DUST FROM SPREADING TO ADJACENT AREAS.

- P. THE SCOPE OF WORK INCLUDES CLEANUP NECESSARY TO LEAVE THE BUILDING AND CONSTRUCTION AREA IN A NEAT AND USABLE CONDITION.

- Q. WHERE EXISTING FINISHES OR FEATURES MUST BE DISTURBED TO EXECUTE THE WORK SHOWN ON THE DRAWINGS OR CALLED FOR IN SPECIFICATIONS, INCLUDING BUT NOT NECESSARILY LIMITED TO THE REMOVAL OF CONCRETE FLOOR SLABS, WALL, CEILING, OR FLOOR FINISHES, OR ROOFING, SUCH ITEMS MUST BE REPLACED TO MATCH EXISTING CONDITIONS, SURFACES AND FINISHES AS CLOSE AS POSSIBLE. FINISHES SUCH AS CARPET, MAY BE REMOVED STORED, AND REPLACED AFTER WORK IS COMPLETE U.N.O.

- R. WHERE NEW WORK REQUIRES THE REMOVAL OF EXISTING ELEMENTS THAT PENETRATE FLOOR, WALL, CEILING OR ROOF SURFACES, THE OPENINGS LEFT BY SUCH REMOVAL SHALL BE REPAIRED AND FINISHED TO MATCH ADJACENT SURFACES AND FINISHES. THIS REQUIREMENT SHALL ALSO APPLY TO SITUATIONS WHERE NEW, SMALLER ELEMENTS ARE INSTALLED IN EXISTING OPENINGS.

- S. WHERE NECESSARY TO PREVENT CRACKING OF EXISTING PLASTER SURFACES, FASTENING MUST BE BY MEANS OF SCREWS IN PRE-DRILLED HOLES.

- T. WHERE WORK REQUIRES THE PENETRATION OF EXTERIOR WALLS OR ROOFS, SUCH WORK SHALL BE FLASHED, SEALED OR OTHERWISE MADE TIGHT AGAINST THE ENTRANCE OF AIR OR WATER. AND ALL REQUIRED RATINGS ARE TO BE MAINTAINED.

- U. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PREVENT FIRES ESPECIALLY DURING WELDING.

- V. (E)CONDITION BASED ON ORIGINAL DRAWINGS

DEMOLITION AND CONSTRUCTION SHORING

- A. THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING ELEMENTS SHALL BE PERFORMED WITH CARE IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDINGS. DO NOT OVER CUT EXISTING ELEMENTS. IF STRUCTURAL MEMBERS NOT INDICATED FOR REMOVAL, INTERFERE WITH NEW WORK, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OBTAIN PRIOR APPROVAL BEFORE DRILLING, CUTTING OR REMOVING SUCH MEMBERS, UNLESS SUCH WORK IS DETAILED ON THE DRAWINGS.
- B. CONTRACTOR SHALL EXERCISE CAUTION WHEN REMOVING OR OTHERWISE DISTURBING EXISTING STRUCTURAL OR LOAD BEARING ELEMENTS TO ALLOW THE INSTALLATION OF NEW WORK. ALL FEATURES AFFECTED BY THE REMOVAL OF SUCH ELEMENTS MUST BE PROPERLY SHORED AND BRACED. EXISTING CONSTRUCTION SHALL BE CONNECTED TO NEW CONSTRUCTION AS SHOWN OR SPECIFIED IN THE DRAWINGS. SHORING SHALL REMAIN IN PLACE UNTIL ALL NEW CONSTRUCTION HAS BEEN COMPLETED.
- C. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES BEFORE BEGINNING WORK. SPECIAL CARE SHALL BE TAKEN TO PROTECT UTILITIES THAT ARE TO REMAIN IN SERVICE DURING CONSTRUCTION.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE BY HIM OR HIS AGENTS TO THE PROPERTY, AND SHALL REPAIR SAME AT HIS OWN EXPENSE. NOTE THAT HEAVY EQUIPMENT DRIVEN OVER CONCRETE PAVEMENT IN PEDESTRIAN AREAS MAY CAUSE DAMAGE TO SUCH PAVEMENT.
- E. SHORING TO PROVIDE SUPPORT FOR EXISTING CONSTRUCTION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL SHORING INCLUDING SITE SHORING SHALL BE DESIGNED BY THE CONTRACTOR'S CALIFORNIA REGISTERED STRUCTURAL ENGINEER.
- F. SEE TYPICAL DETAILS AT CUT OPENINGS. S.A.D. FOR FINISH AT DEMOLISHED SURFACES.

TESTS AND INSPECTIONS

- A. PROVIDE TESTS AND INSPECTIONS FOR ALL ITEMS REQUIRED BY THE CALIFORNIA BUILDING CODE, 2016 EDITION.
- B. THE OWNER SHALL BE RESPONSIBLE FOR RETAINING AN INDEPENDENT TESTING LAB TO PERFORM ALL REQUIRED TESTING AND INSPECTIONS.
- C. THE TEST AND SPECIAL INSPECTION REQUIREMENTS OF CHAPTER 17A OF THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE APPLY TO THE FOLLOWING:
CONCRETE REINFORCEMENT
DRILLED DOWEL AND ANCHORS IN RESIN
DRILLED DOWEL AND ANCHORS IN CEMENTITIOUS GROUT
EXPANSION ANCHORS
CAST IN PLACE CONCRETE
MISCELLANEOUS STEEL
WELDING (VISUAL)
PLYWOOD DIAPHRAGM NAILING
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TESTING LAB WITH CONSTRUCTION SCHEDULES TO ENSURE PROPER COORDINATION OF WORK.
- E. SEE STRUCTURAL TESTS AND INSPECTION FORM IN THE CONTRACT DOCUMENTS FOR ITEMS REQUIRING TESTING AND SPECIAL INSPECTION.
- F. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND INSPECTOR A MINIMUM OF 48 HOURS PRIOR TO TIME OF INSPECTION.

CONSTRUCTION SEQUENCE

- A. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AND COORDINATING THE SEQUENCE OF SHORING, EXCAVATION, DISASSEMBLY, DEMOLITION AND NEW CONSTRUCTION.

DESIGN BASIS

- A. APPLICABLE CODE: CALIFORNIA BUILDING CODE, 2016 EDITION
B. VERTICAL LIVE LOADS:

1. ROOF : 20 PSF

- C. LATERAL LOADS:

1. SEISMIC
PER CBC CHAP. 34 + ASCE 41
CONC. TILT-UP SHEAR WALL w/ PLYWOOD DIAPHRAGM
SITE CLASS D,
BSE-2N SPECTRAL RESPONSE ACCELERATION PARAMETERS:
Sxs=1.605g, Sx1 =0.827g
BSE-1E SPECTRAL RESPONSE ACCELERATION PARAMETERS:
Sxs=0.799g, Sx1 =0.426g
ANALYSIS: LINEAR STATIC
BSE 1E BASE SHEAR = 941 KIPS
BSE-2N BASE SHEAR = 1889 KIPS.
ACCEPTANCE CRITERIA:
BSE-1E LIFE SAFETY
BSE-2N COLLAPSE PREVENTION

2. WIND
Vuit=110MPH, Vasd=85MPH
RISK CATEGORY II
EXPOSURE C
GCpi=±0.18
MAX. ROOF CLADDING PRESSURE = 77.9PSF FOR 10S.F.

FOUNDATION

- A. FOR DETAILED INFORMATION, REFER TO "GEOLOGIC HAZARDS AND GEOTECHNICAL ENGINEERING REPORT, SOLANO COUNTY OFFICE OF EDUCATION, JOINT USE BUILDING, WKA NO. 9927.01P"BY WALLACE KUHIL & ASSOCIATES SECTION, DATED DECEMBER 18, 2013.
- B. SLABS-ON-GROUND SHALL BEAR ON FIRM UNYIELDING SUBGRADE.
- C. ALL COMPACTED NATURAL SOIL FILL AND BACKFILL IS TO BE UNIFORMLY COMPACTED WITH APPROVED COMPACTION EQUIPMENT. SEE GEOTECHNICAL REPORT FOR COMPACTION REQUIREMENTS. ALL FILL MATERIAL AND OPERATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER.
- D. DO NOT ALLOW WATER TO STAND IN TRENCHES. IF BOTTOM OF TRENCHES BECOME SOFTENED DUE TO RAIN OR OTHER WATER BEFORE CONCRETE IS CAST, EXCAVATE SOFTENED MATERIAL AND REPLACE WITH PROPERLY COMPACTED BACKFILL OR CONCRETE AT NO COST TO OWNER.
- E. THE SPECIAL INSPECTION REQUIREMENTS OF THE CALIFORNIA BUILDING CODE 2016 EDITION (CHAPTER 17, TABLE 1704.7) APPLY TO FOUNDATION SUBGRADES, EXCAVATIONS, FILL AND BACKFILL OPERATIONS. FOOTINGS EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER'S REPRESENTATIVE PRIOR TO PLACING REINFORCING STEEL.
- F. ALL FOUNDATION EXCAVATIONS MUST BE REVIEWED AND APPROVED BY THE SOILS ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
- G. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATION. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED.
- J. FOR DRAINAGE DETAILS, SUMPS, PITS DAMP PROOFING, TRENCHES, CURBS, EXTERIOR WALKS, UTILITIES, EQUIPMENT DETAILS, STEPS, ETC., SEE DRAWINGS OTHER THAN STRUCTURAL.
- K. ALL SUBGRADE SURFACES SHALL MEET THE REQUIREMENTS GIVEN IN THE GEOTECHNICAL REPORT.
- L. ALLOWABLE BEARING PRESSURES FOR SPREAD FOOTINGS ON SOIL:
DL + LL = 3,000 PSF
DL + LL + EQ = 4,000 PSF

CONCRETE

- A. REINFORCE ALL CONCRETE. INSTALL ALL INSERTS, BOLTS, ANCHORS, AND REINFORCING AND SECURELY TIE PRIOR TO PLACING CONCRETE.
- B. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE II, LOW ALKALI.
- C. CONCRETE SHALL BE HARDROCK CONCRETE AND SHALL ATTAIN THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTHS AT 28 DAYS. MINIMUM CEMENT CONTENT: 5-1/2 SACKS PER CUBIC YARD.

LOCATION/ CLASS	MIN. STRENGTH @ 28 DAYS PSI	MAX. AGGREGATE SIZE – INCHES	MAX. SLUMP INCHES	WATER/CEMENT RATIO
SLAB ON GRADE/A	4000	1	4	0.40
TOPPING SLAB/B	4000	3/4	4	0.40

- D. CONSOLIDATE CONCRETE BY THE USE OF MECHANICAL VIBRATORS, BUT DO NOT OVER VIBRATE.
- E. CONCRETE SHALL BE PLACED IN A CONTINUOUS OPERATION UNTIL THE SECTION IS COMPLETED BETWEEN PREDETERMINED CONSTRUCTION JOINTS.
- F. CONCRETE MIX TO COMPLY WITH CBC 1905A.2 USING METHOD B TO ESTABLISH CONCRETE PROPORTION.
- G. CONCRETE SHALL BE CONTINUOUSLY CURED FOR 10 DAYS AFTER PLACING IN ANY APPROVED MANNER, INCLUDING CURING COMPOUND, CURING PAPER, ETC.

NOTE: FOOTINGS ARE EXCEPTED FROM THIS REQUIREMENT.
- H. WHEN PLACING NEW CONCRETE OR SHOTCRETE AGAINST EXISTING CONCRETE, ROUGHEN SURFACE OR EXISTING MATERIAL BY EITHER SANDBLASTING OR SCARIFYING TO 1/4" AMPLITUDE AND APPLY BONDING AGENT. BONDING AGENT SHALL BE LARSEN PRODUCTS CORP.'S. WELD-CRETE OR APPROVED EQUIVALENT.
- I. ALL EXPOSED CORNERS OR EDGES OF COLUMNS, PIERS WALLS, BEAMS ETC., SHALL BE FORMED WITH A 3/4" CHAMFER SPECIFICALLY NOTED OTHERWISE.
- J. CONSTRUCTION JOINTS SHALL BE LOCATED WHERE SHOWN, AND IF NOT SHOWN, WHERE DIRECTED BY THE OWNER. THEY SHALL BE LOCATED SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND TO MINIMIZE SHRINKAGE. PROVIDE DOWELS AND KEYS AS DETAILED AND DIRECTED. THOROUGHLY CLEAN AND ROUGHEN SURFACES BY SANDBLASTING BEFORE PROCEEDING WITH THE NEXT POUR. ALL EXISTING CONCRETE AND MASONRY TO HAVE NEW CONCRETE AGAINST IT SHALL BE THOROUGHLY ROUGHENED TO A 1/4 INCH AMPLITUDE, THEN BLASTED CLEAN WITH COMPRESSED AIR.
- K. S.A.D. FOR DRIPS, REGLETS, REVEALS, IMBEDS AND FEATURES.

REINFORCING STEEL

- A. ALL REINFORCING STEEL BARS SHALL CONFORM WITH THE STANDARD SPECIFICATIONS FOR DEFORMED STEEL FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A706. WELDING SHALL BE PER AWS D1.4.
- B. SUITABLE DEVICES OF SOME STANDARD MANUFACTURE SHALL BE USED TO HOLD REINFORCEMENT IN ITS TRUE HORIZONTAL AND VERTICAL POSITIONS. THESE DEVICES SHALL BE SUFFICIENTLY RIGID AND NUMEROUS TO PREVENT DISPLACEMENT OF THE REINFORCING DURING PLACING OF CONCRETE.
- C. UNLESS OTHERWISE NOTED, MAINTAIN COVERAGE TO FACE OF BARS AS FOLLOWS:
3 INCHES WHERE CONCRETE IS DEPOSITED AGAINST EARTH EXCEPT SLAB-ON-GRADE.
2 INCHES WHERE CONCRETE IS EXPOSED TO EARTH OR WEATHER, BUT FORMED.
1-1/2 INCHES ELSEWHERE.
- D. FOR NON-SHRINK GROUT USE MASTER BUILDERS, MASTERFLOW 928 OR APPROVED EQUAL (MUST HAVE I.C.C APPROVAL ADDITIONALLY). WIRE BRUSH HOLE AND CLEAN OUT THOROUGHLY BEFORE GROUTING. FOLLOWING MANUFACTURER'S RECOMMENDATIONS.

FRAMING LUMBER

- A. ALL FRAMING LUMBER SHALL BE GRADED PER WCLIB GRADING RULES NO. 17.
- B. PRESSURE TREATED LUMBER SHALL CONFORM TO THE AMERICAN WOOD PRESERVERS INSTITUTE (AWPA), INCLUDING M4 FOR FIELD CUTS AND HOLES. EACH PIECE OF LUMBER SHALL BE STAMPED WITH THE AWPA SEAL. PRESSURE TREATED LUMBER SHALL BE AWPA TREATED DOUGLAS FIR.
- C. ALL POSTS, BEAMS AND JOISTS SHALL BE DOUGLAS FIR #1 OR BETTER.
- D. ALL STUDS SHALL BE DOUGLAS FIR LARCH #1 OR BETTER.
- E. ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR #2 OR BETTER AND HAVE THE AWPA STAMP ON EACH PIECE. SILLS SHALL BE 3X MIN.
- F. ALL STRUCTURAL LUMBER EXPOSED TO THE EXTERIOR ENVIRONMENT SHALL BE PRESSURE TREATED.
- G. NAILING OF PLYWOOD SHEATHING SHOULD BE DONE BY HAND. UNLESS MACHINE NAILING IS APPROVED BY ENGINEER. NAILHEADS MUST NOT PENETRATE THE OUTER PLYWOOD MORE THAN WOULD BE NORMAL FOR A HAND PERFORMANCE.
- H. ALL LUMBER SHALL HAVE A MOISTURE CONTENT NOT EXCEEDING 16% AT INSTALLATION.
- I. REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS

PLYWOOD/ WOOD STRUCTURAL PANELS

- A. EACH PANEL SHALL BE IDENTIFIED WITH THE APPROPRIATE GRADE, TRADEMARK OF THE ENGINEERED WOOD ASSOCIATION (APA), AND SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE U.S. PRODUCT STANDARD PS-1. THE MINIMUM EDGE DISTANCE FOR NAILS IN THE RECEIVING MEMBERS AND THE PLYWOOD SHALL BE ¾"
- B. PLYWOOD SHEETS SHALL BE THICKNESS NOTED ON DRAWINGS. USE EXTERIOR GRADE ADHESIVE FOR ALL PLYWOOD. IF PLYWOOD AND NAILING IS INCORRECTLY INSTALLED/DAMAGED, PLYWOOD WILL BE REMOVED AND REPLACED AND FRAMING MEMBERS COULD BE REPLACED (AS DETERMINED BY INSPECTOR OR ENGINEER), ALL DONE AT CONTRACTOR(S) EXPENSE.
- C. PLYWOOD SHEETS ON WALLS SHALL BE LAID WITH LONG DIMENSION VERTICAL, UNLESS OTHERWISE NOTED. BLOCK ALL EDGES. SHEARWALLS MORE THAN ONE VERTICAL PANEL IN HEIGHT SHALL HAVE STAGGERED SPLICED JOINTS. AT EXISTING WALLS, REMOVE FINISHES TO APPLY PLYWOOD DIRECTLY TO STUDS.
- D. ROOF PLYWOOD SHALL BE STRUCTURAL I, 5 PLY 1½ INCH ¾ CDX.
- E. MINIMUM WIDTH OF PLYWOOD PIECE APPLIED SHALL BE 24" FOR SHEARWALLS AND DIAPHRAGMS.
- H. FOR PLYWOOD SPLICES, THE EDGES OF ADJOINING SHEETS SHALL TERMINATE ON THE SAME MEMBER, EXAMPLE: STUD, BLOCKING PLATE, JOIST, ETC. AND SHALL BE MINIMUM 2X, UNLESS OTHERWISE NOTED. LEAVE ¾ INCH GAP BETWEEN PLYWOOD EDGES.

STRUCTURAL STEEL

- A. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:
PLATES ASTM A36
WF SHAPES ASTM A992, GR.50
CHANNELS & ANGLES ASTM A36
TUBES ASTM A500, GRADE B
BASE PLATES ASTM A36
THREADED RODS ASTM A36
MACHINE BOLTS (M.B.) ASTM A307
WELDED STUDS ASTM A108
ANCHOR BOLTS ASTM A36
PIPES ASTM A53, TYPE E, GRADE B
SILL BOLTS ASTM 307 OR A36 AND HAVE WASHERS
- B. ALL ANCHOR BOLTS SHALL CONFORM WITH ASTM A307 OR A36, AND HAVE WASHERS.
- C. ANCHOR BOLTS SHALL BE EMBEDDED A MINIMUM OF 10" INTO CONCRETE WITH A PLATE WASHER 3/8"x4"x4" MIN. AND DOUBLE NUTS UNLESS OTHERWISE NOTED. USE OF UPSET BOLTS IS NOT PERMITTED. DO NOT COUNTERSINK IN SILL. ANCHOR BOLTS TO HAVE THREAD SHOWING ABOVE BOLT WASHER AND NUT.
- D. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- E. WELDING SHALL CONFORM WITH THE LATEST EDITION OF THE AWS D1.1 SPECIFICATIONS. USE E70 ELECTRODES. WELDING SHALL BE OBSERVED AS PER AWS INSPECTION PROCEDURES.
- F. CLEAN AND PROVIDE PRIMER COAT OF PAINT AFTER FABRICATION, BUT BEFORE JOB SITE DELIVERY. CLEAN AND PROVIDE PRIMER COATS FOR ALL WELDS INCLUDING FIELD WELDING.
- G. ALL STEEL EXPOSED TO THE EXTERIOR SHALL BE HOT-DIP GALVANIZED. TOUCH-UP GALVANIZING AND AT THE WELDS WITH GALVALOG (ONLY AFTER WELDING HAS BEEN INSPECTED).

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PROJECT:
**Vacaville Classroom Building
(Annex) Renovation Project**

CONSULTANT TEAM:
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SHEET LEGEND:

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GENERAL NOTES

S0.1

* USE MIN EMBED U.N.O.

DRILLED AND GROUTED ANCHORS AND DOWELS

REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS. ALL DRILLED DOWELS SHALL BE REINFORCING STEEL AS DEFINED IN THE SPECIFICATIONS AND AS NOTED ON THIS SHEET. ALL DRILLED ANCHORS SHALL BE ASTM A 193 B7 -THREAD ROD U.O.N. DRILLED DOWELS/ANCHORS IN CONCRETE SHALL BE SET IN HILTI RE-500 -SD OR SIMPSON SET-XP OR APPROVED EQUAL, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

USE OF POLYESTER RESIN SHALL NOT BE PERMITTED. USE EPOXY DOWELS/ANCHORS U.N.O. DRILLED CEMENT-GROUTED DOWELS/ANCHORS. IN CONCRETE SHALL BE INSTALLED USING ONLY PRE-PACKAGED NON-METALIC CEMENTITIOUS GROUT IN ACCORDANCE WITH SPECIFICATIONS. WHEN INSTALLING DRILLED DOWELS/ANCHORS IN EXISTING REINFORCED CONCRETE OR IN BRICK, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. HOLES FOR DRILLED DOWELS/ANCHORS SHALL NOT BE CORED.

HOLE DIAMETERS SHOWN SHALL BE USED UNLESS SPECIFICALLY RECOMMENDED BY MANUFACTURER OF RESIN MATERIAL. WHERE EXISTING REINFORCING STEEL IS ENCOUNTERED, SHIFT THE DOWEL/ANCHOR AS REQUIRED TO AVOID IT. DRILLED DOWELS/ANCHORS SHALL HAVE MINIMUM EMBEDMENTS TABULATED BELOW UNLESS NOTED OTHERWISE ON THE DRAWINGS. THE TESTING LABORATORY SHALL LOAD TEST 100% OF EACH SIZE DOWEL/ANCHOR TO THE LOAD SPECIFIED. IF ANY ONE DOWEL/ANCHOR INSTALLED IN ANY ONE DAYFAILS THIS TEST, ALL DOWELS/ANCHORS OF ALL SIZES INSTALLED THAT DAY SHALL BE TESTED. PERIODIC SPECIAL INSPECTION IS REQUIRED.

MATERIALS	BAR SIZE ANCH Ø	MAXIMUM HOLE DIAMETER	MINIMUM EMBEDMENT	PROOF LOAD (POUNDS)
CONC/ REBAR	#3	½"	5½"	3,500
	#4	⅝ "	7"	6,400
	#5	¾ "	9"	14,900
	#6	⅞"	11½"	21,100
	#7	1"	14½"	28,800
	#8	1⅛"	17½"	37,900
CONC/ ANCH	#9	1⅜"	21"	48,000
	3/8"	⅞"	3½"	2,200
	1/2"	⅝"	4"	3,370
	5/8"	1⅛"	4½"	4,600
	3/4"	1⅜"	5"	5,890
	7/8"	1⅝"	6"	7,090
	1"	1 ⅞"	7"	9,350

MATERIALS	BAR SIZE ANCH Ø	MAXIMUM HOLE DIAMETER	MIN. EMBED	PROOF LOAD (POUNDS)
BRICK/ REBAR 50psi MIN MORTAR	#3	½"	7 1/2"	1,000
	#4	1⅛"	7 1/2"	1,200
	#5	1"	12"	1,500
	#6	1"	12"	1,800
BRICK/ ANCH 50psi MIN MORTAR	3/8"	½"	6"	1,000
	1/2"	1⅛"	10"	1,200
	5/8"	1⅜"	10"	1,500
	3/4"	1"	12"	1,800

ABBREVIATIONS

Ø - DIAMETER
& - AND
@ - AT
C - CENTER LINE
P - PLATE
ABT. - ABOUT
A.B. - ANCHOR BOLT
AESS - ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
A.T.R. - ALL THREAD ROD
BLDG. - BUILDING
BLKG. - BLOCKING
BM. - BEAM
B.S. - BOTH SIDES
BOT. - BOTTOM
BETW. - BETWEEN
CL - CENTERLINE
CLR. - CLEAR
CMU. - CONCRETE MASONRY UNIT
COL. - COLUMN
C.P. - COMPLETE PENETRATION
CLG. - CEILING
CONC. - CONCRETE
CONN. - CONNECTION
C.J. - CONSTRUCTION JOINT
C.N.J. - CONTROL JOINT
CONT. - CONTINUOUS

DET. - DETAIL
DIA. - DIAMETER
DS. - DIAGONAL SHEATHING
DWG. - DRAWING
do - REPEAT STEEL SHAPE

(E) - EXISTING
EA. - EACH
E.F. - EACH FACE
E.S. - EACH SIDE
E.N. - EDGE NAIL
ELEV. - ELEVATION
EMBED. - EMBEDMENT
EPS. - EXPANDED POLYSTYRENE STYROFOAM
EQ. - EQUAL
(E) - EXISTING

F.S. - FAR SIDE
FLG. - FLANGE
FLR. - FLOOR
FTG. - FOOTING
FDN. - FOUNDATION

GA. - GAGE
GALV. - GALVANIZED
G.B. - GRADE BEAM

HORIZ. - HORIZONTAL
HT. - HEIGHT

INFO. - INFORMATION

L.L. - LIVE LOAD
LLH. - LONG LEG HORIZONTAL
LLV. - LONG LEG VERTICAL
LSL. - LAMINATED STRAND LUMBER
M.B. - MACHINE BOLT
MAX. - MAXIMUM
MIN. - MINIMUM

N.S. - NEAR SIDE
(N) - NEW
N.I.C. - NOT IN CONTRACT
N.T.S. - NOT TO SCALE

O.C. - ON CENTER
OPNG - OPENING
O.H. - OPPOSITE HAND
O.F. - OUTSIDE FACE
O.S.H. - OVER SIZED HOLE

PL - PLATE
PLYWD - PLYWOOD
P.W. - PLYWOOD
P.T.W. - PRESSURE TREATED WOOD

REINF. - REINFORCEMENT
R.C. - REINFORCED CONCRETE
REQ. - REQUIRED

SECT. - SECTION
S.A.D. - SEE ARCHITECTURAL DRAWING
SHT. - SHEET
SIM. - SIMILAR
S.B. - SOLID BLOCKING
SPECS. - SPECIFICATIONS
SQ. - SQUARE
STAGG. - STAGGERED
STIFF. - STIFFENER
STL. - STEEL
SYMM. - SYMMETRICAL

T. - TOP
T.D. - TIE DOWN
T.N. - TOE NAIL
T.O.C. - TOP OF CONCRETE
T.O.S. - TOP OF STEEL
TYP. - TYPICAL

U.O.N. - UNLESS OTHERWISE NOTED
U.N.O. - UNLESS NOTED OTHERWISE

V.I.F. - VERIFY IN FIELD
VERT. - VERTICAL

WP - WATERPROOFING
W.A. - WEDGE ANCHOR
W/- WITH
W.P. - WORK POINT

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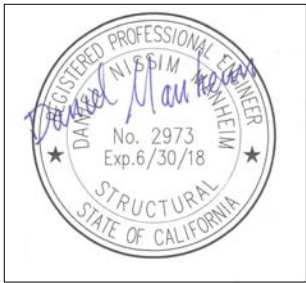
Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

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GENERAL NOTES
& ABBREVIATIONS

S0.2

TABLE 2304.9.1 FASTENING SCHEDULE		
CONNECTION	FASTENING ^{a,m}	LOCATION
1. JOIST TO SILL OR GIRDER	3-8d COMMON (2½"x0.131") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL
2. BRIDGING TO JOIST	2-8d COMMON (2½"x0.131") 2-3"x0.131" NAILS 2-3" 14 GAGE STAPLES	TOENAIL EACH END
3. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (2½"x0.131")	FACE NAIL
4. WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST	3-8d COMMON (2½"x0.131")	FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3½"x0.162")	BLIND & FACE NAIL
6. SOLE PLATE TO JOIST OR BLOCKING	16d (3½"x0.135") AT 16"o.c. 3"x0.131" NAILS AT 8"o.c. 3" 14 GAGE STAPLES AT 12"o.c.	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3-16d (3½"x0.135") AT 16" 4-3"x0.131" NAILS AT 16" 4-3" 14 GAGE STAPLES PER 16"	BRACED WALL PANEL
7. TOP PLATE TO STUD	2-16d COMMON (3½"x0.162") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	END NAIL
8. STUD TO SOLE PLATE	4-8d COMMON (2½"x0.131") 4-3"x0.131" NAILS 3-3" 14 GAGE STAPLES 2-16d COMMON (3½"x0.162") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL END NAIL
9. DOUBLE STUD	16d (3½"x0.135") AT 24"o.c. 3"x0.131" NAILS AT 8"o.c. 3" 14 GAGE STAPLES AT 8"o.c.	FACE NAIL
10. DOUBLE TOP PLATES	16d (3½"x0.135") AT 16"o.c. 3"x0.131" NAILS AT 12"o.c. 3" 14 GAGE STAPLES AT 12"o.c.	TYPICAL FACE NAIL
DOUBLE TOP PLATES	8-16d COMMON (3½"x0.162") 12-3"x0.131" NAILS 12-3" 14 GAGE STAPLES	LAP SPLICE
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3-8d COMMON (2½"x0.131") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL
12. RIM JOIST TO TOP PLATE	8d (2½"x0.131") AT 6"o.c. 3"x0.131" NAILS AT 6"o.c. 3" 14 GAGE STAPLES AT 6"o.c.	TOENAIL
13. TOP PLATES, LAPS AND INTERSECTIONS	2-16d COMMON (3½"x0.162") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON (3½"x0.162")	16"o.c. ALONG EDGE
15. CEILING JOISTS TO PLATE	3-8d COMMON (2½"x0.131") 5-3"x0.131" NAILS 5-3" 14 GAGE STAPLES	TOENAIL
16. CONTINUOUS HEADER TO STUD	4-8d COMMON (2½"x0.131")	TOENAIL
17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3-16d COMMON (3½"x0.162") MINIMUM. TABLE 2308.10.4.1 4-3"x0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL
18. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3-16d COMMON (3½"x0.162") MINIMUM. TABLE 2308.10.4.1 4-3"x0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL
19. RAFTER TO PLATE (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3-8d COMMON (2½"x0.131") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL
20. 1"DIAGONAL BACE TO EACH STUD AND PLATE	2-8d COMMON (2½"x0.131") 2-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL
21. 1"x8" SHEATHING TO EACH BEARING	3-8d COMMON (2½"x0.131")	FACE NAIL
22. WIDER THAN 1"x8" SHEATHING TO EACH BEARING	3-8d COMMON (2½"x0.131")	FACE NAIL
23. BUILT-UP CORNER STUDS	16d COMMON (3½"x0.162") 3"x0.131" NAILS 3" 14 GAGE STAPLES	24"o.c. 16"o.c. 16"o.c.
24. BUILT-UP GIRDER AND BEAMS	20d COMMON (4"x0.192")32"o.c. 3"x0.131" NAIL AT 24"o.c. 3" 14 GAGE STAPLES AT 24"o.c. 2-20d COMMON (4"x0.192") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL AT TOP & BOTTOM STAGGERED ON OPPOSITE SIDES FACE NAIL AT ENDS AND AT EACH SPLICE

NAIL SCHEDULE

N.T.S.

9

CONNECTION	FASTENING ^{a,m}	LOCATION
25. 2" PLANKS	16d COMMON (3½"x0.162")	AT EACH BEARING
26. COLLAR TIE TO RAFTER	3-10d COMMON (3"x0.148") 4-3"x0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL
27. JACK RAFTER TO HIP	3-10d COMMON (3"x0.148") 4-3"x0.131" NAILS 4-3" 14 GAGE STAPLES 2-16d COMMON (3½"x0.162") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL FACE NAIL
28. ROOF RAFTER TO 2-BY RIDGE BEAM	2-16d COMMON (3½"x0.162") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES 2-16d COMMON (3½"x0.162") 3-3"x0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL FACE NAIL
29. JOIST TO BAND JOIST	3-16d COMMON (3½"x0.162") 4-3"x0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL
30. LEDGER STRIP	3-16d COMMON (3½"x0.162") 4-3"x0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL
31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD ^b SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	½" AND LESS 6d ^{c,1} 2¾"x0.113"NAIL ⁿ 1¾"16 GAGE ^o 1½½" TO ¾" 8d ^e OR 6d ^e 2¾"x0.113"NAIL ^p 2"16 GAGE ^p ¾" TO 1" 8d ^e 1½" TO 1¼" 10d ^d OR 8d ^e ¾" AND LESS 6d ^e ¾" TO 1" 8d ^e 1½" TO 1¼" 10d ^d OR 8d ^e	
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)		
32. PANEL SIDING (TO FRAMING)	½" OR LESS 6d ^f ¾" 8d ^f	
33. FIBERBOARD SHEATHING ^g	½" NO. 11 GAGE ROOFING NAIL ^h 6d COMMON NAIL (2"x0.113") NO. 16 GAGE ⁱ 2½½" NO. 11 GAGE ROOFING NAIL ^h 8d COMMON NAIL (2½"x0.113") NO. 16 GAGE ⁱ	
34. INTERIOR PANELING	¾" 4d ^j ¾" 6d ^k	

FOR SI: 1 INCH = 25.4 mm.

- A. COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.
- B. NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES AT SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
- C. COMMON OR DEFORMED SHANK (6d-2"x0.113"; 8d-2½"x0.131"; 10d-3"x0.148").
- D. COMMON (6d-2"x0.113"; 8d- 2½"x0.131"; 10d-3"x0.148").
- E. DEFORMED SHANK (6d-2"x0.113"; 8d-2½"x0.131"; 10d-3"x0.148").
- F. CORROSION-RESISTANT SIDING (6d-1¾"x0.106"; 8d-2¾"x0.128") OR CASING (6d-2"x0.099"; 8d-2½"x0.113") NAIL.
- G. FASTENER SPACED 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.
- H. CORROSION-RESISTANT ROOFING NAILS WITH ⅞-INCH-DIAMETER HEAD AND 1½-INCH LENGTH FOR ½-INCH SHEATHING AND 1¾-INCH LENGTH FOR 2½½-INCH SHEATHING.
- I. CORROSION-RESISTANT STAPLES WITH NOMINAL ⅞-INCH CROWN AND 1½-INCH LENGTH FOR ½-INCH SHEATHING AND 1½-INCH LENGTH FOR 2½½-INCH SHEATHING. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED)
- J. CASING (1½"x0.080") OR FINISH (1½"x0.072") NAILS SPACED 6 INCHES ON PANEL EDGES. 12 INCHES AT INTERMEDIATE SUPPORTS.
- K. PANEL SUPPORTS AT 24 INCHES. CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.
- L. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2½"x0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
- M. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF ⅞ INCH.
- N. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.
- O. FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3 INCHES ON CENTER AT EDGES, 6 INCHES AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.
- P. FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.
- Q. NAILS AND FASTENERS, INCLUDING BOLTS NUTS AND WASHERS, IN PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED.

NAIL SIZE

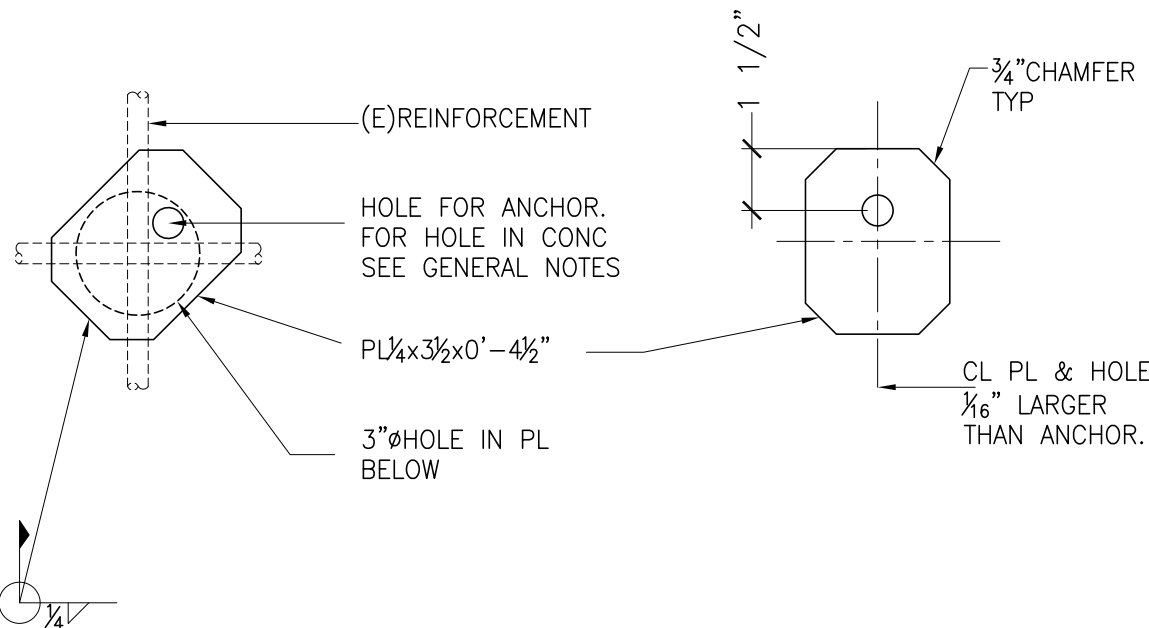
N.T.S.

5

TYPICAL DETAIL AT SOLID BLOCK

NTS

7



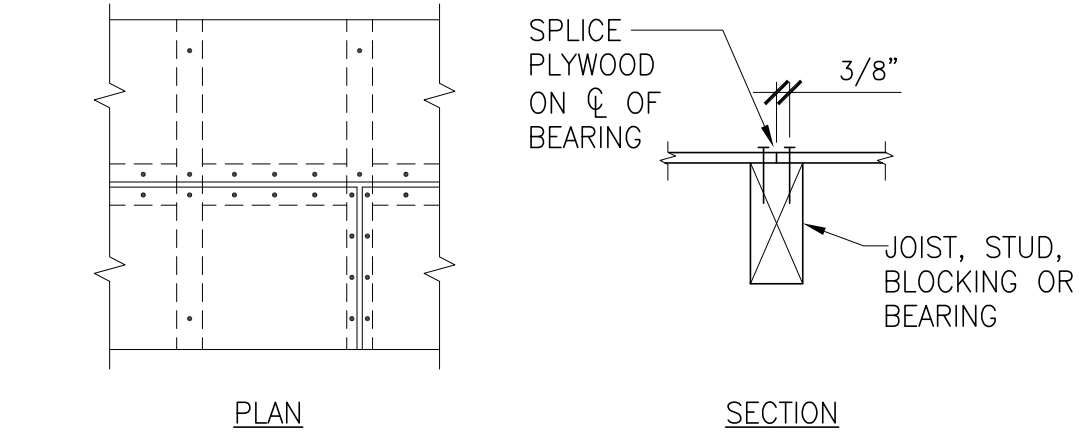
TYPICAL DETAIL AT PLATE WASHER

NTS

6

NAIL SIZE	LENGTH INCHES	DIAMETER INCHES
6d	2	0.113
8d	2½	0.131
10d	3	0.148
12d	3½	0.148
16d	3½	0.162
20d	4	0.192

NAILS SHALL BE COMMON NAILS CONFORMING TO NER272 & ASTM F1667 W/ FULL ROUND HEADS

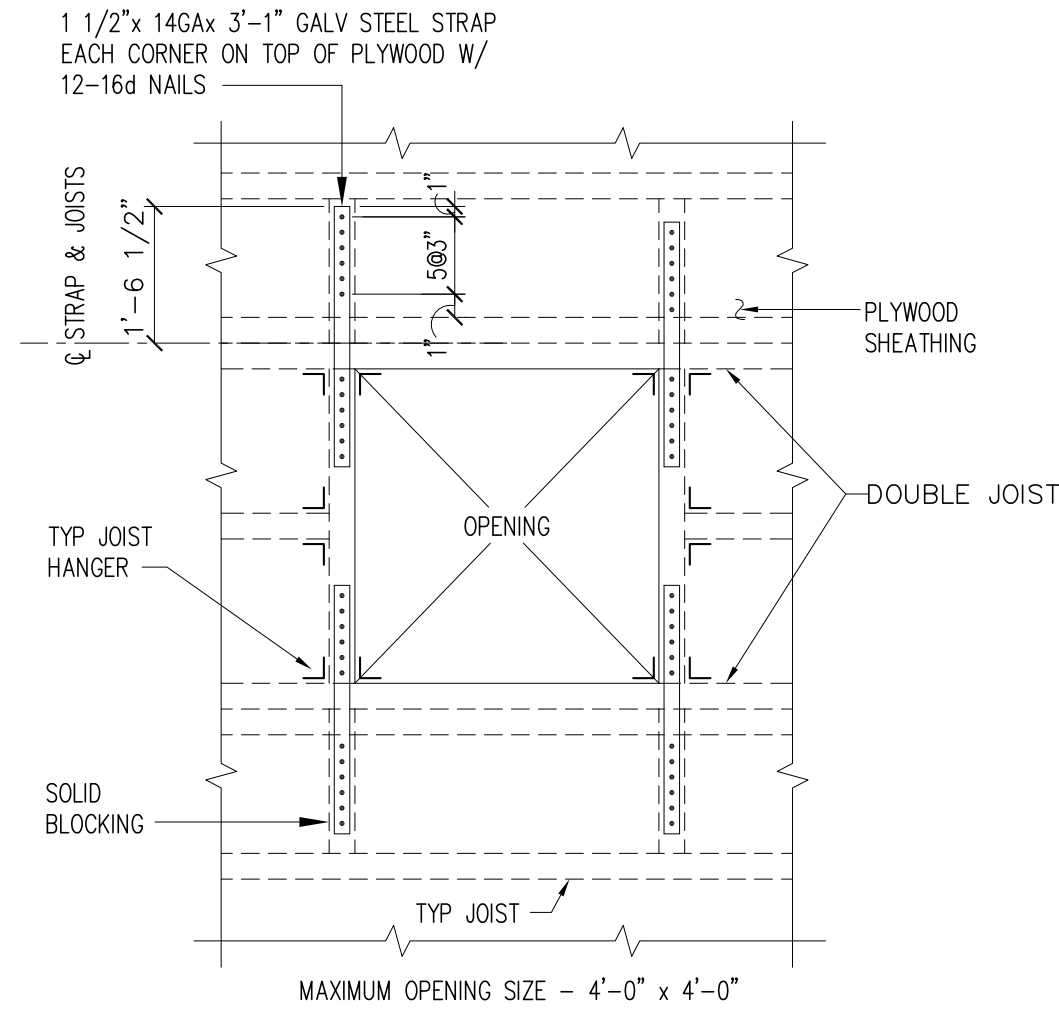


PLYWOOD SHEETS ARE TO BE AS LARGE AS POSSIBLE. JOINTS ARE TO BE CENTERED OVER BEARING. SHEET SIZES LESS THAN 24" IN DIMENSION NOT PERMITTED UNLESS APPROVAL IS GIVEN BY THE ARCHITECT. STAGGER ALL END JOINTS OF SHEATHING. OUTSIDE FACE GRAINS TO RUN PERPENDICULAR TO BEARING. BLOCK ALL JOINTS AND EDGES.

TYPICAL PLYWOOD SHEATHING

N.T.S.

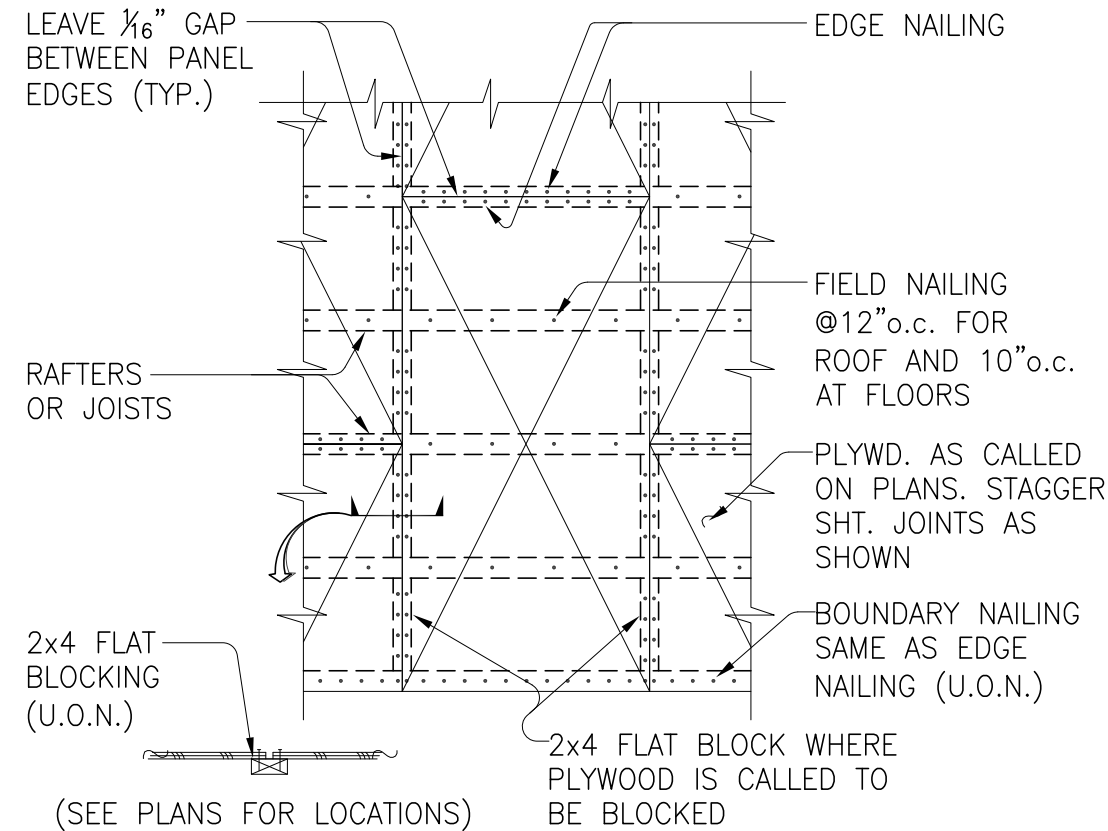
4



TYP. DIAPHRAGM OPENING

N.T.S.

2



TYP. HORIZONTAL PLYWOOD NAILING (JOIST OR RAFTERS)

N.T.S.

1

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PROJECT:

Vacaville Classroom Building
(Annex) Renovation Project

CONSULTANT TEAM:

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10/18/2017 DSA BACKCHECK

KEY PLAN:

FILE: 49-C1

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02-116082

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TYPICAL DETAILS

S1.0

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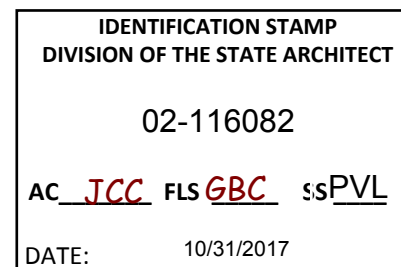
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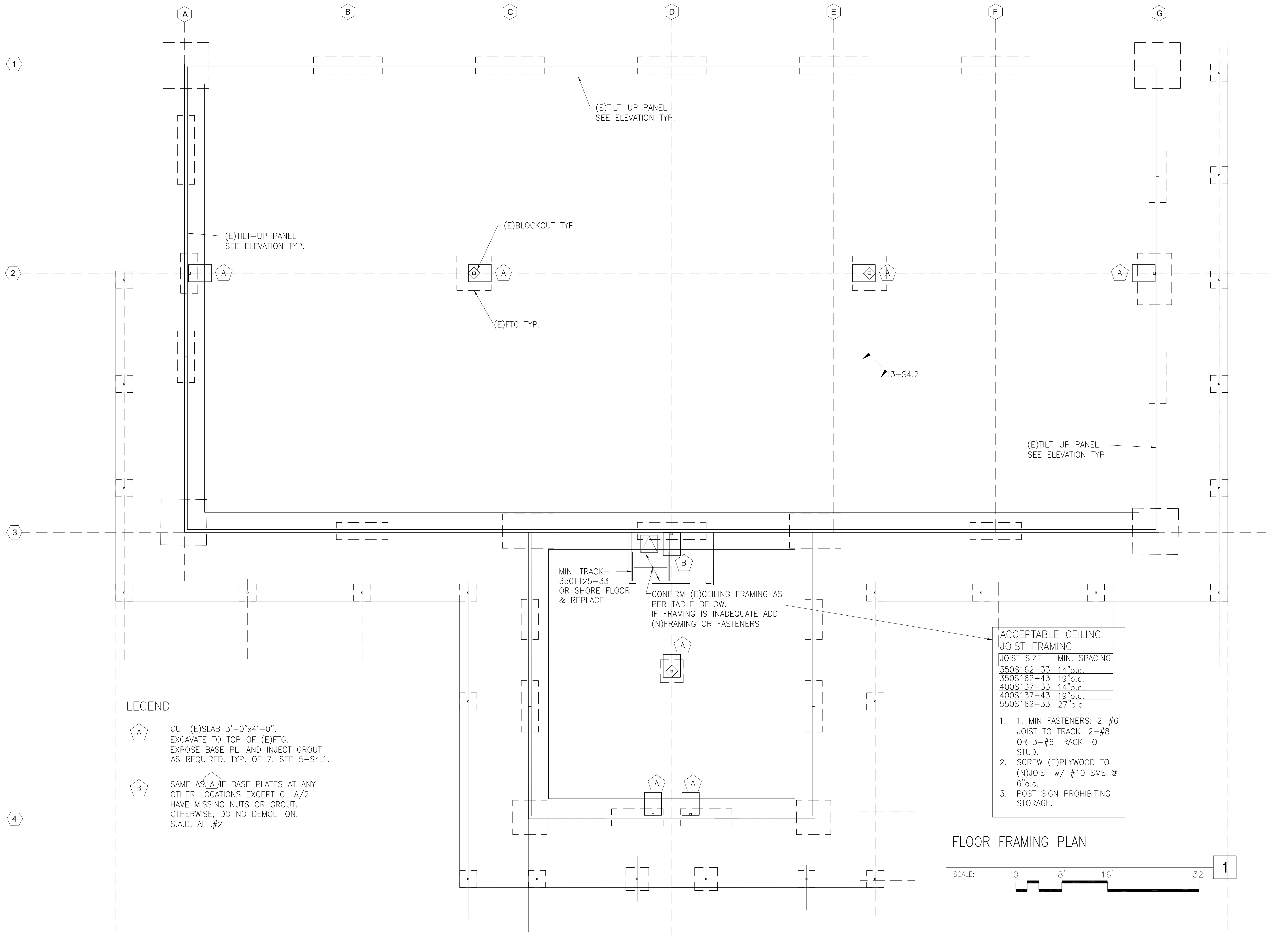
DATE:

PROJECT NO:

PERMIT APPLICATION NO.:

1st FLOOR AND
FOUNDATION PLAN

S2.1



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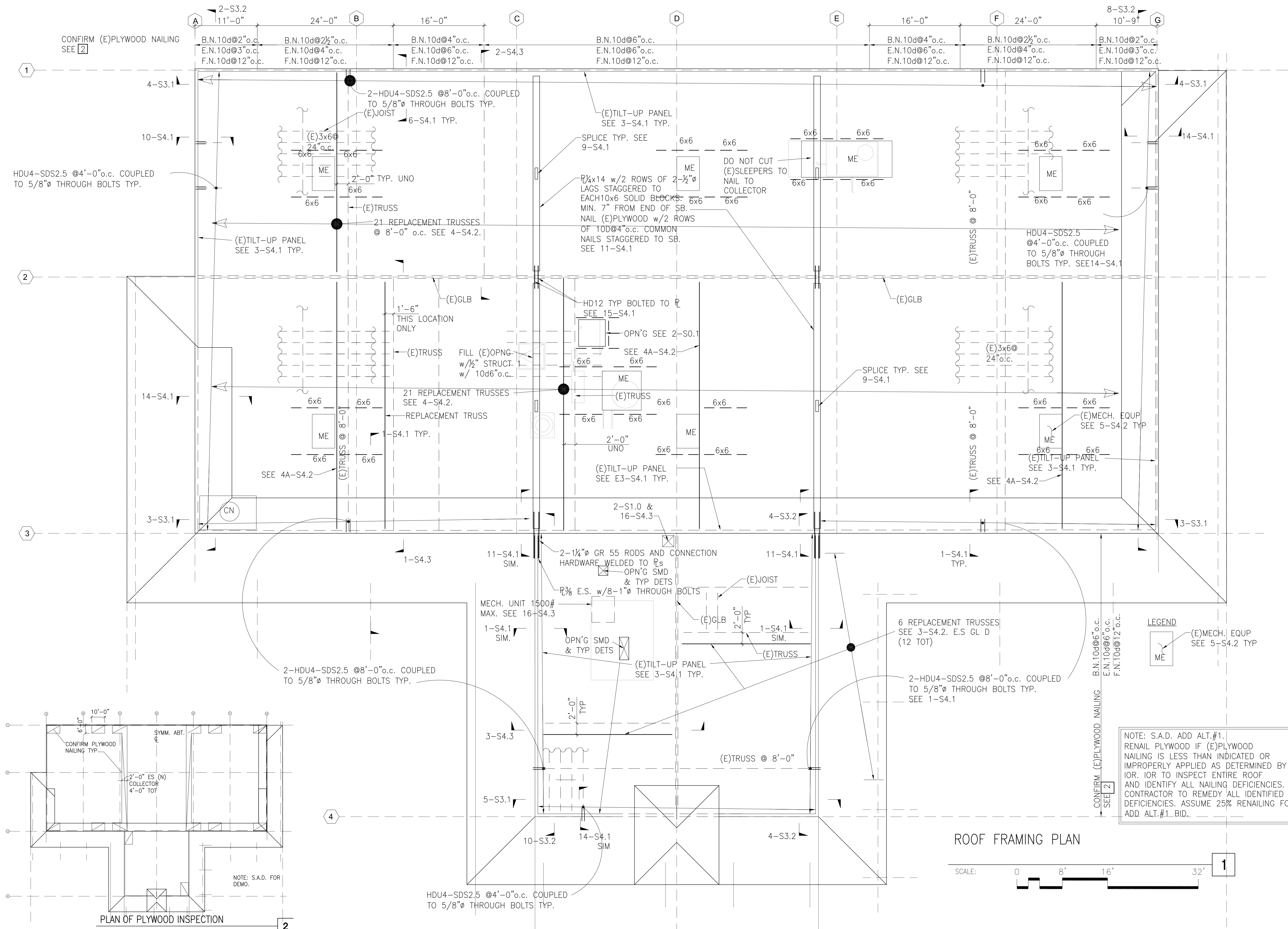
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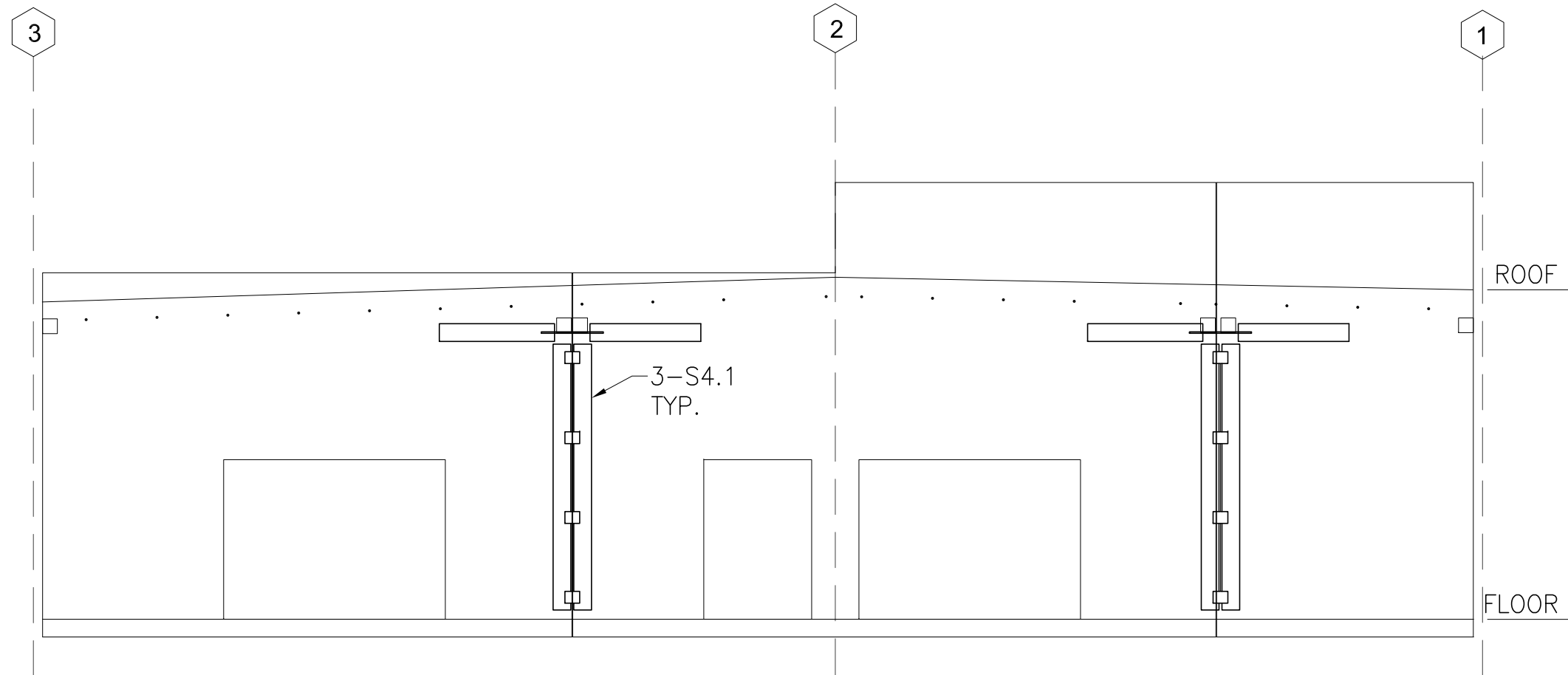
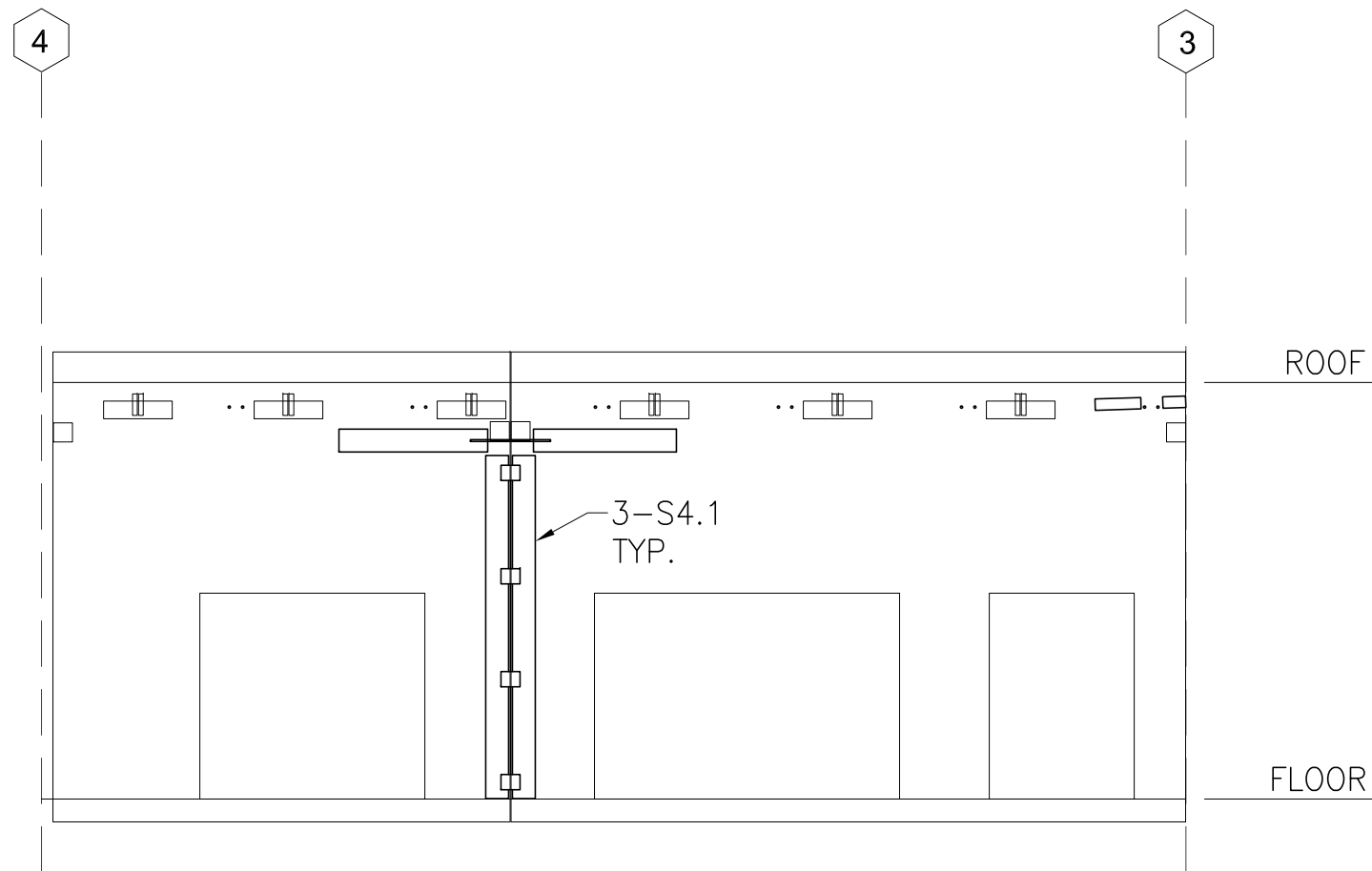
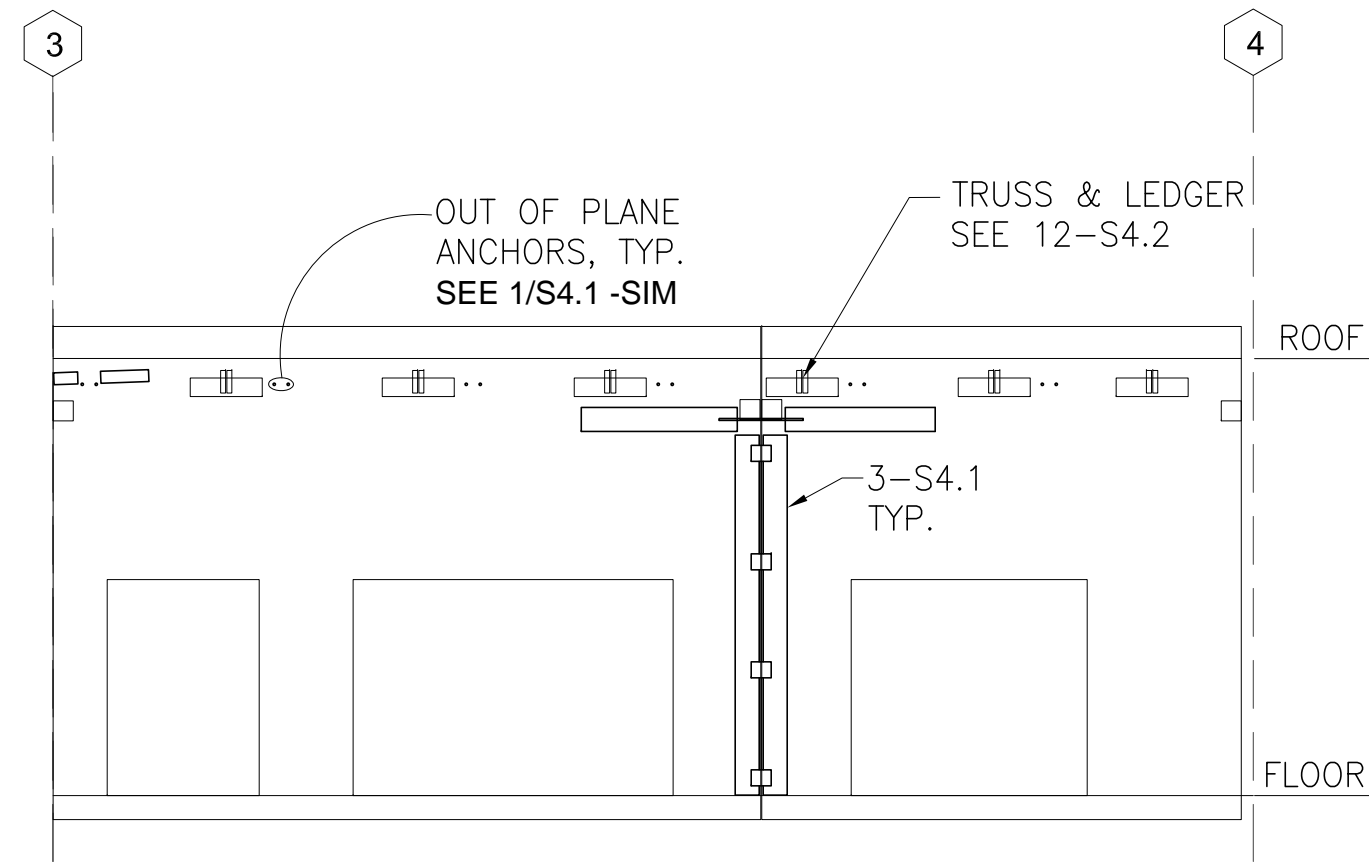
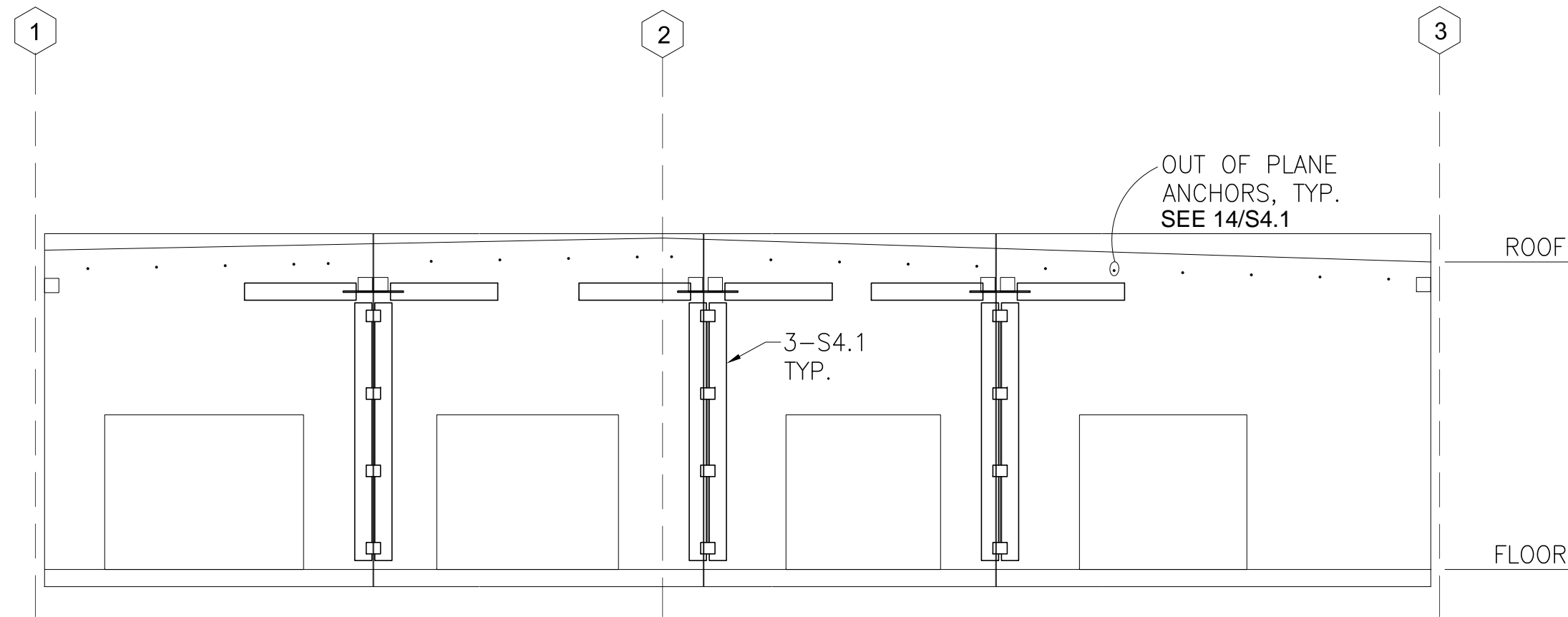
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ROOF FRAMING PLAN S2.2



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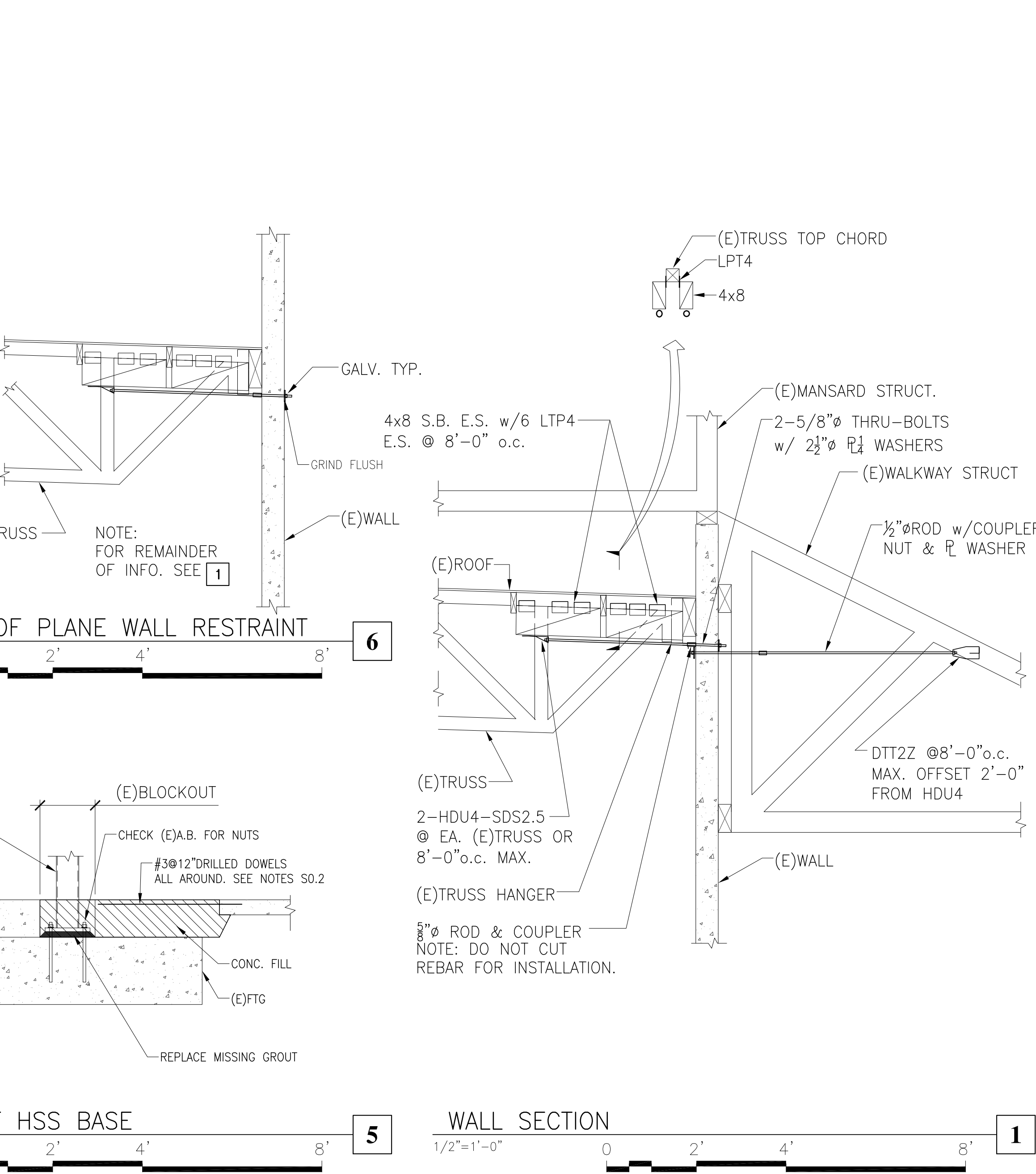
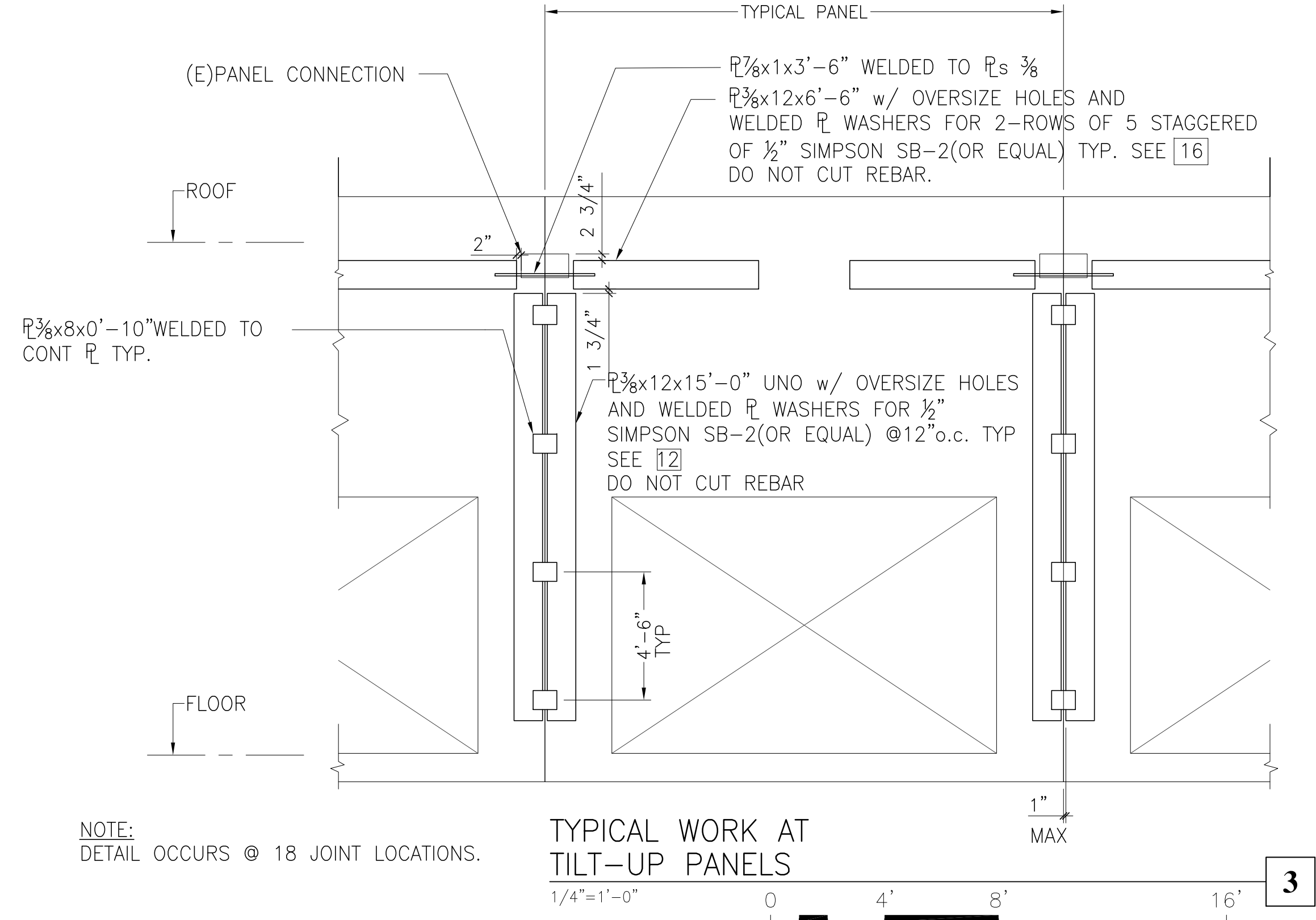
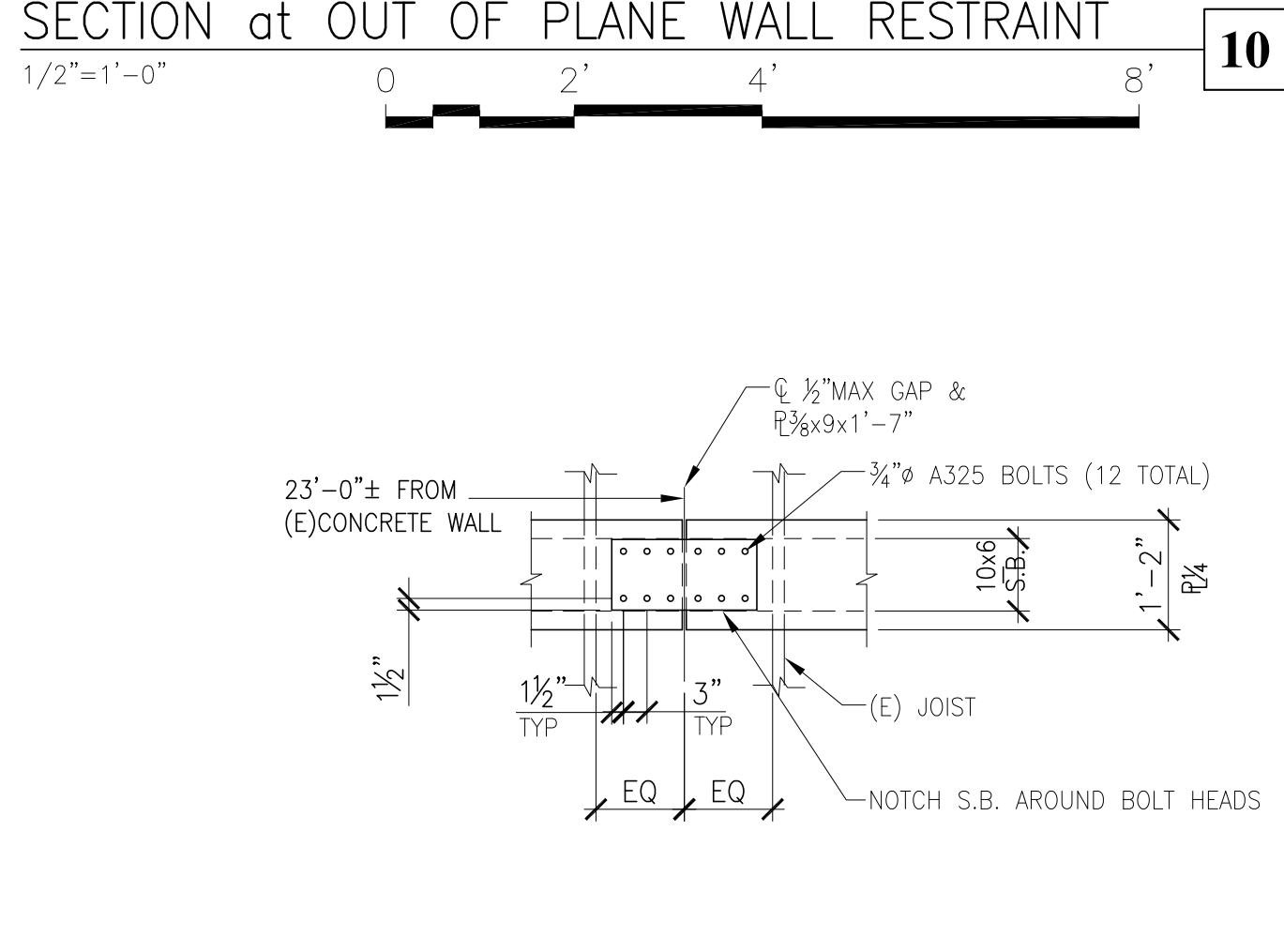
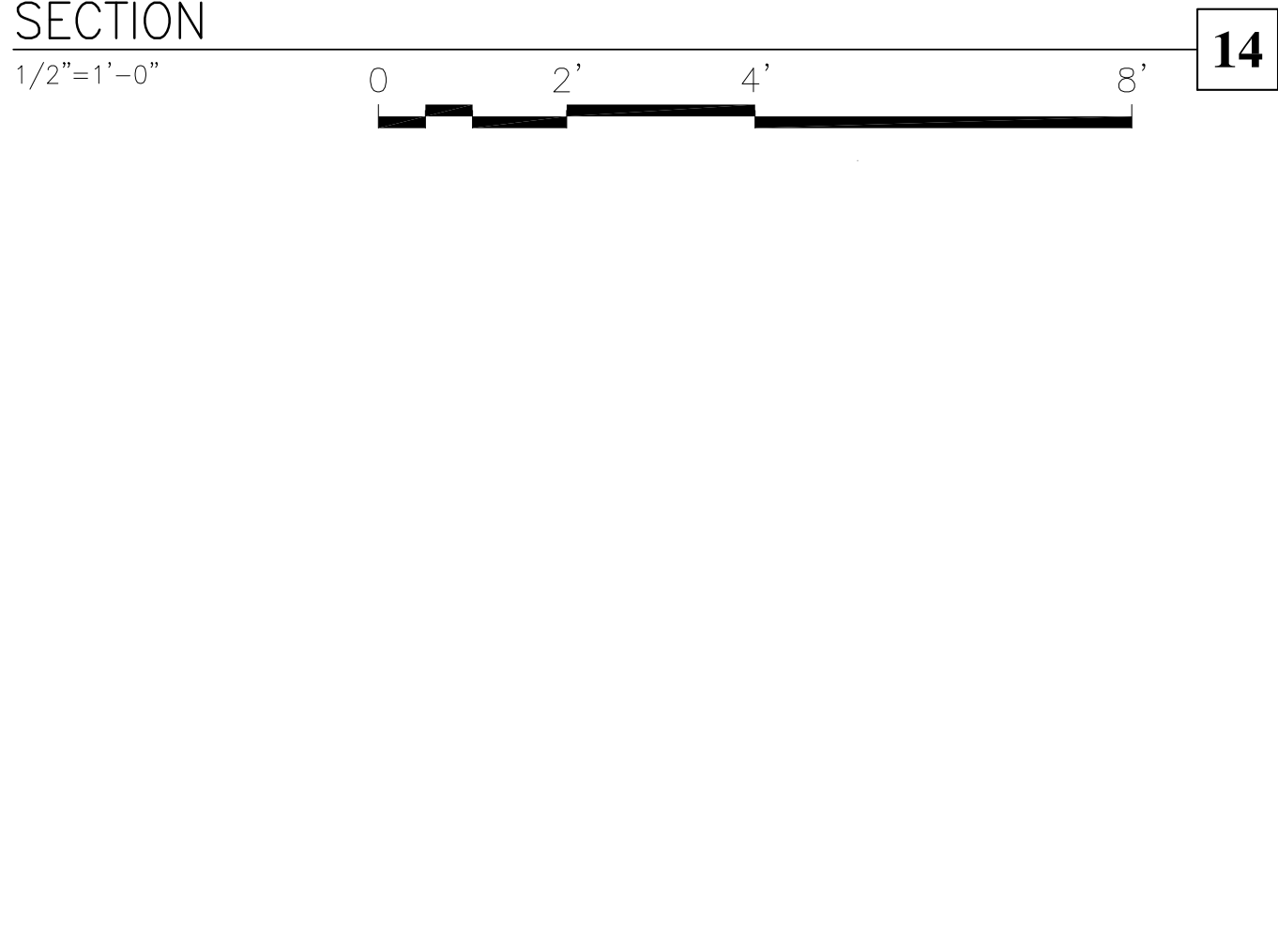
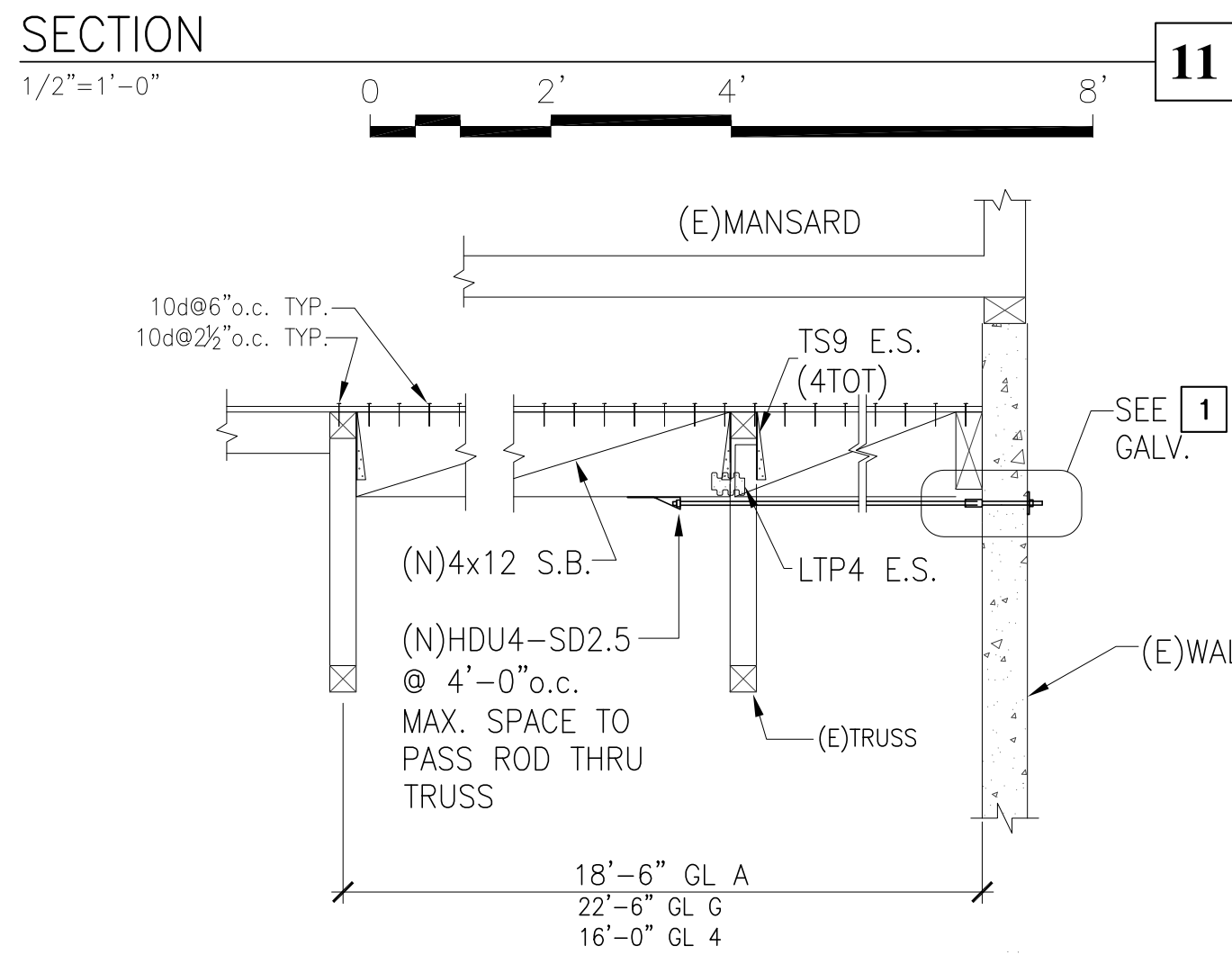
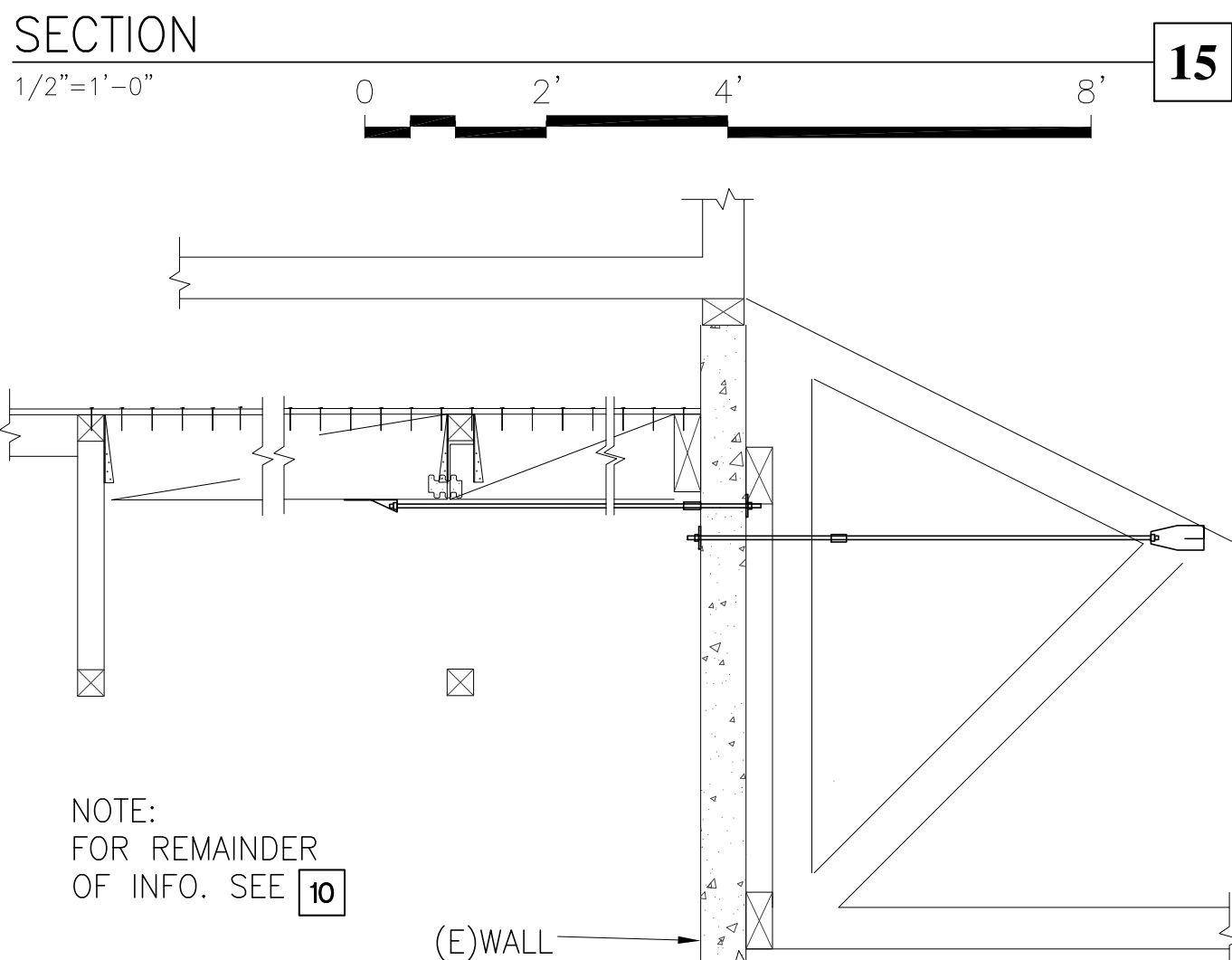
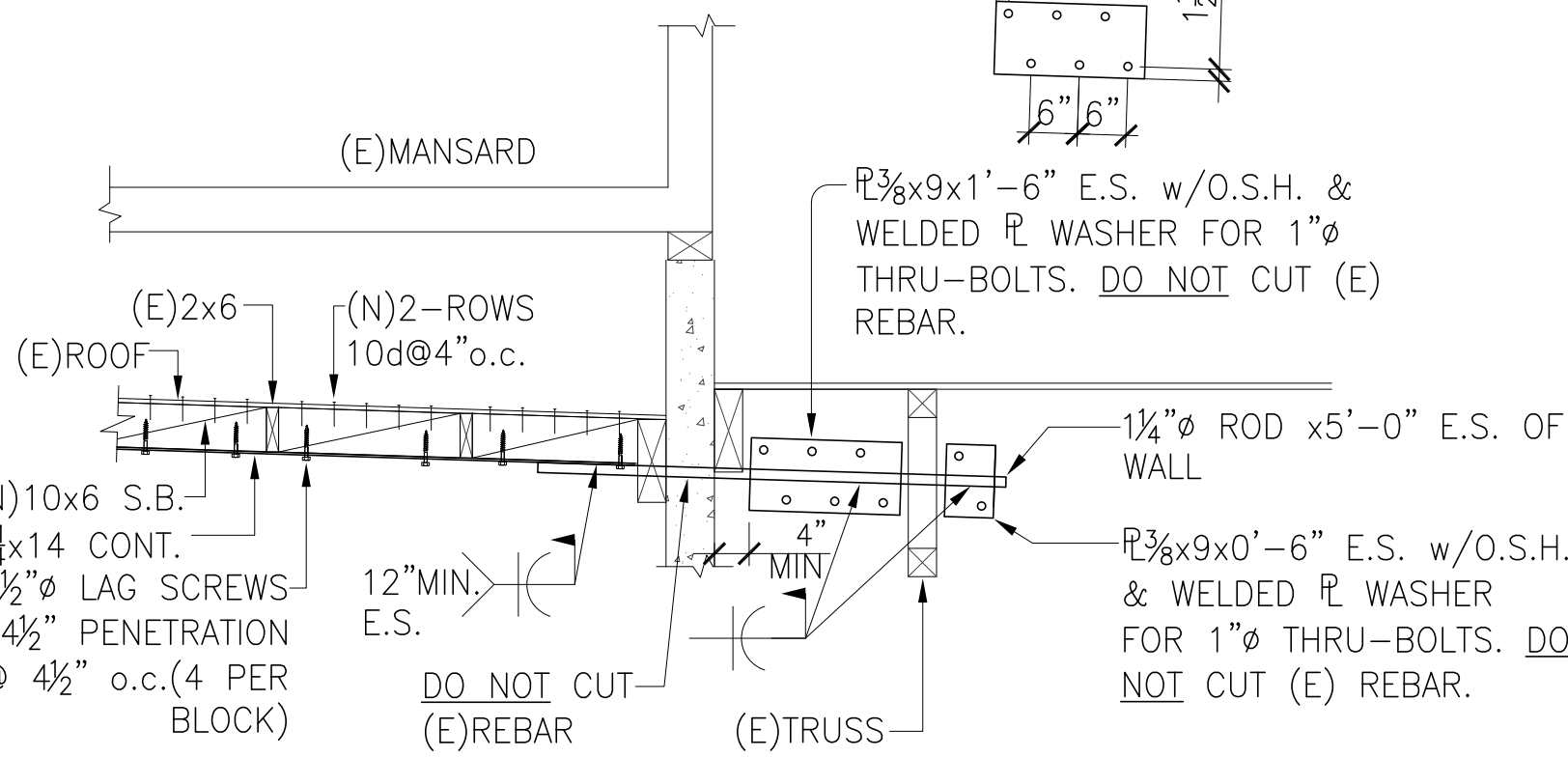
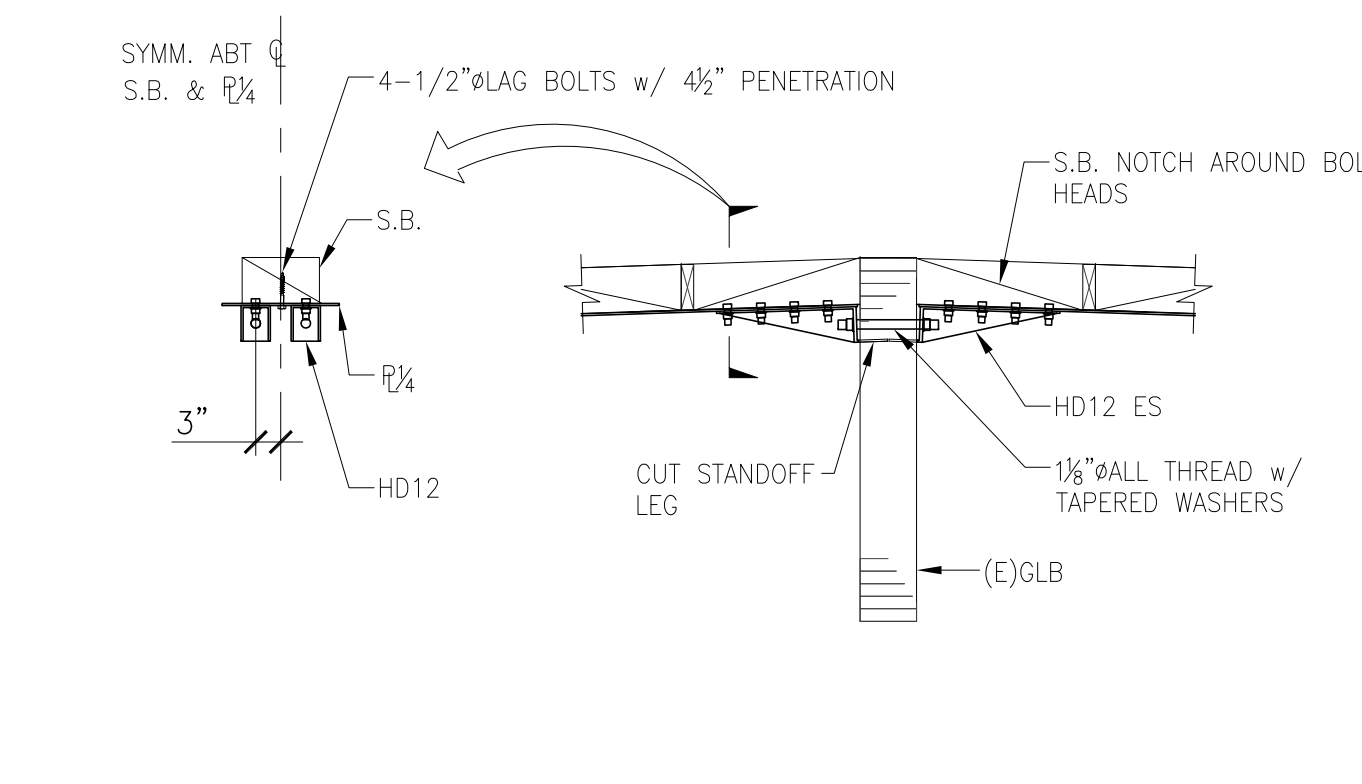
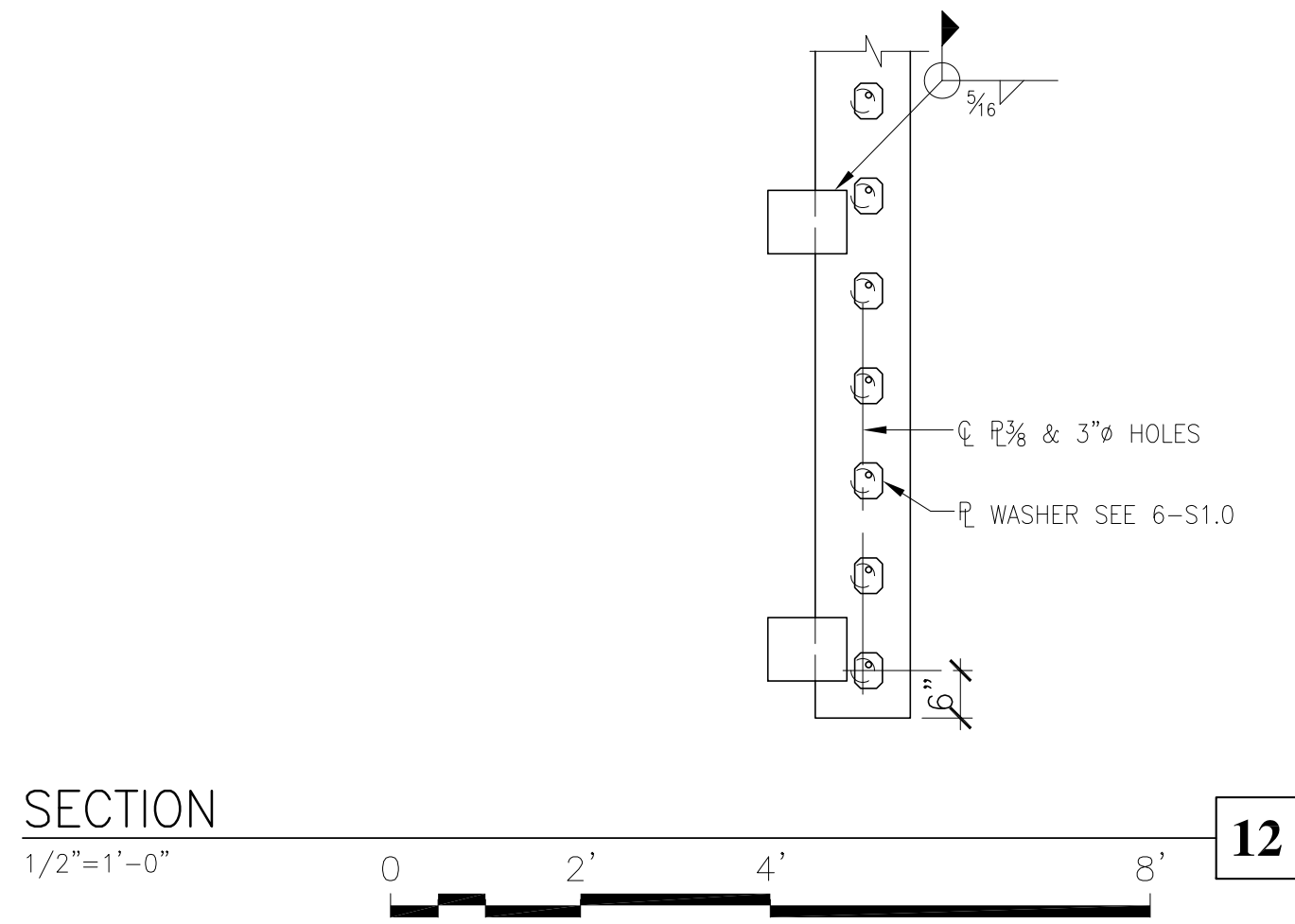
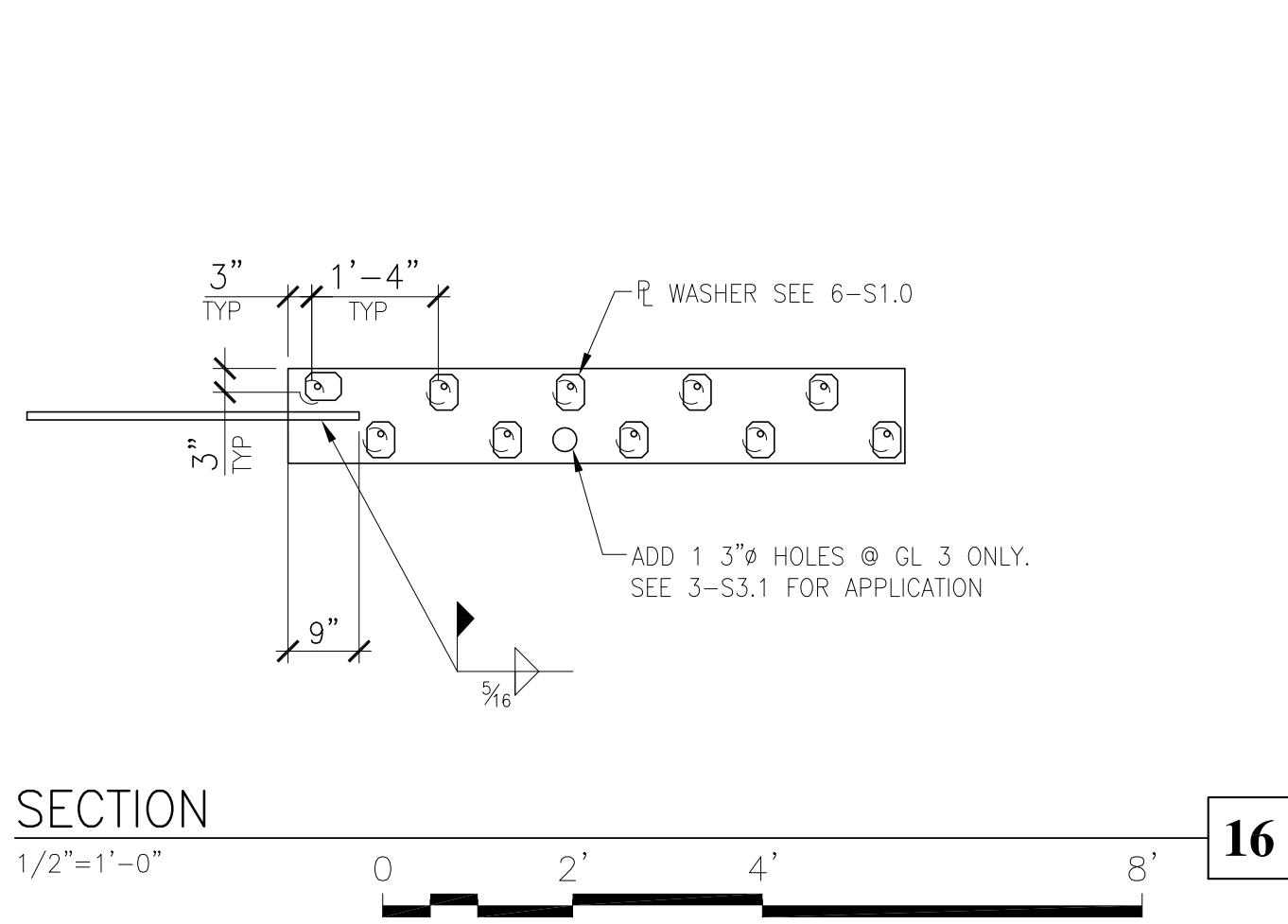
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WALL ELEVATIONS

S3.2

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Saved: 5/22/2017
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REGISTERED PROFESSIONAL
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Exp. 6/30/18
STRUCTURAL
STATE OF CALIFORNIA

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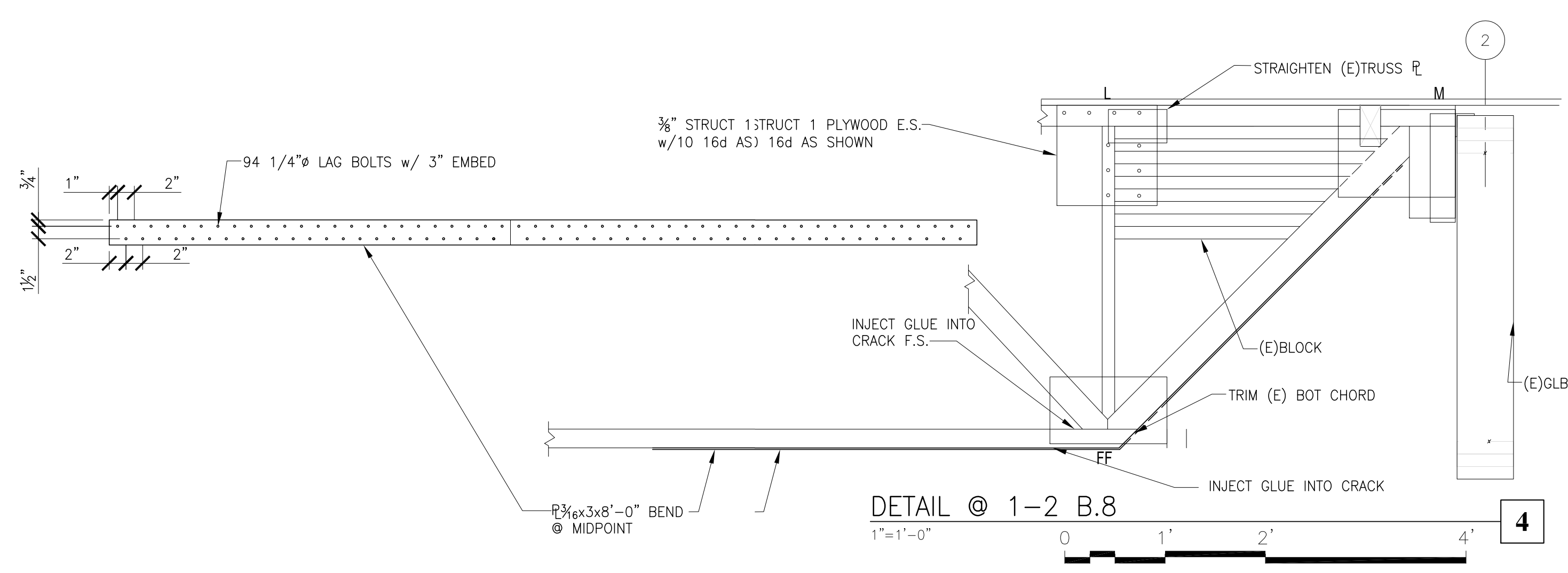
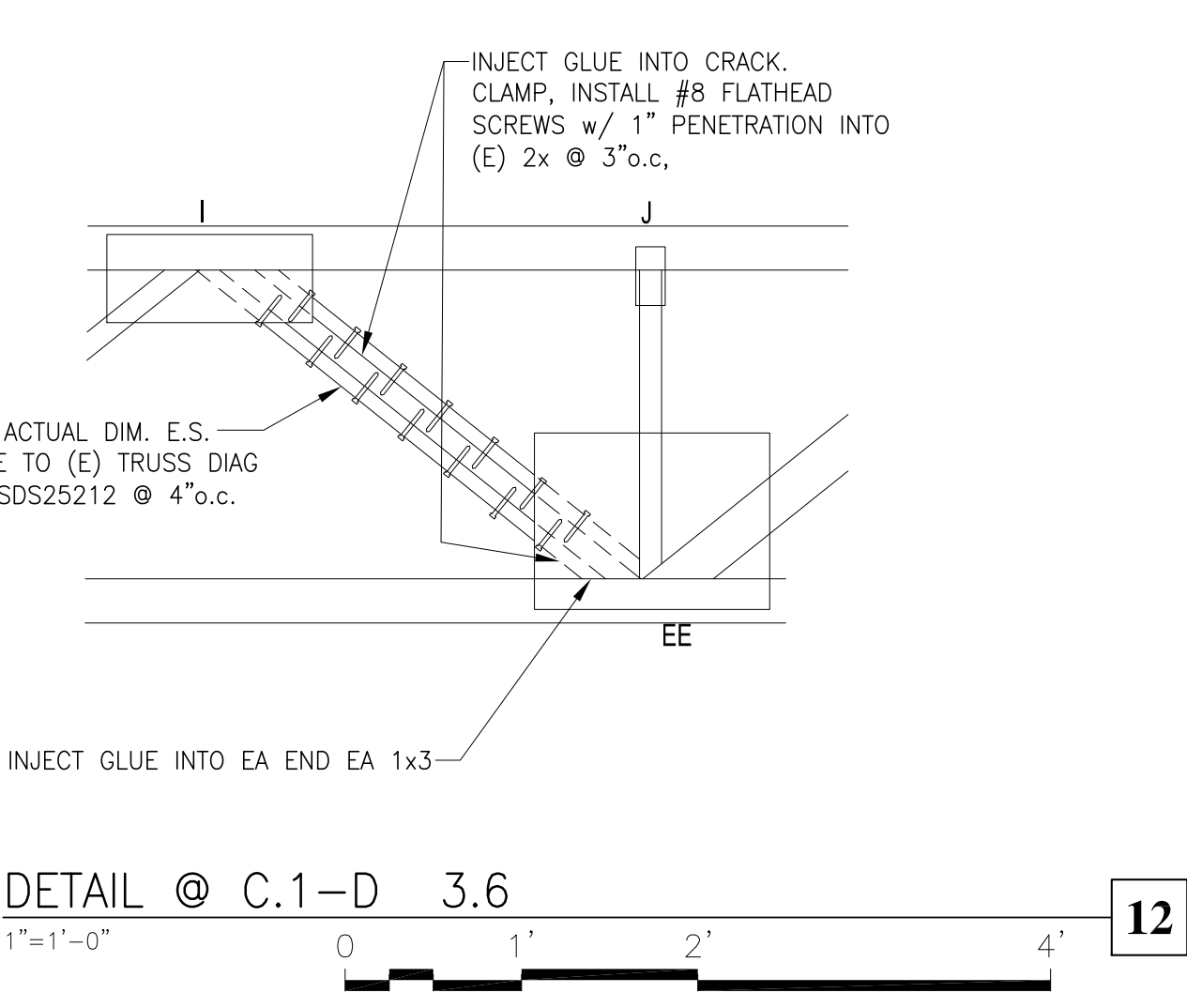
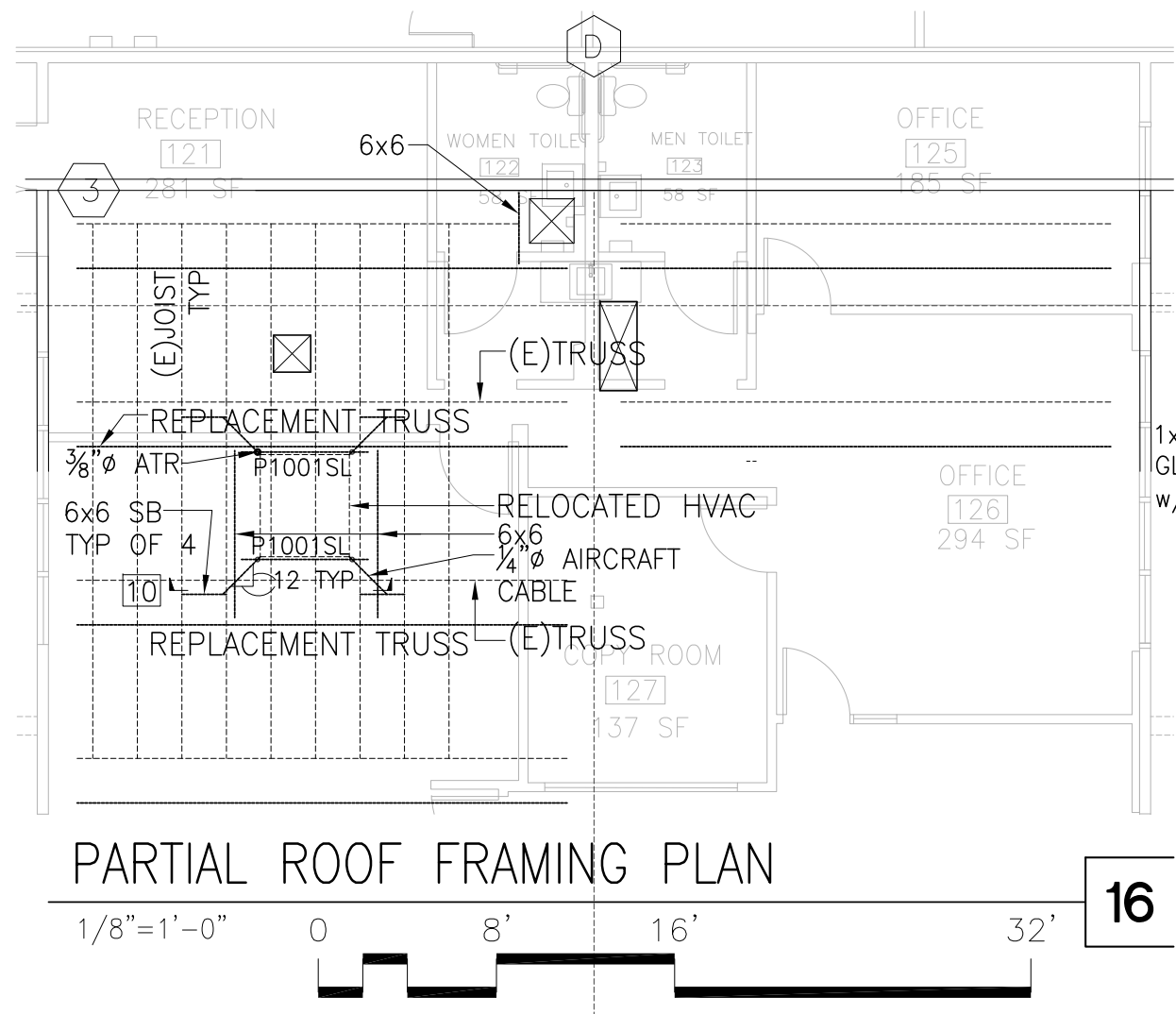
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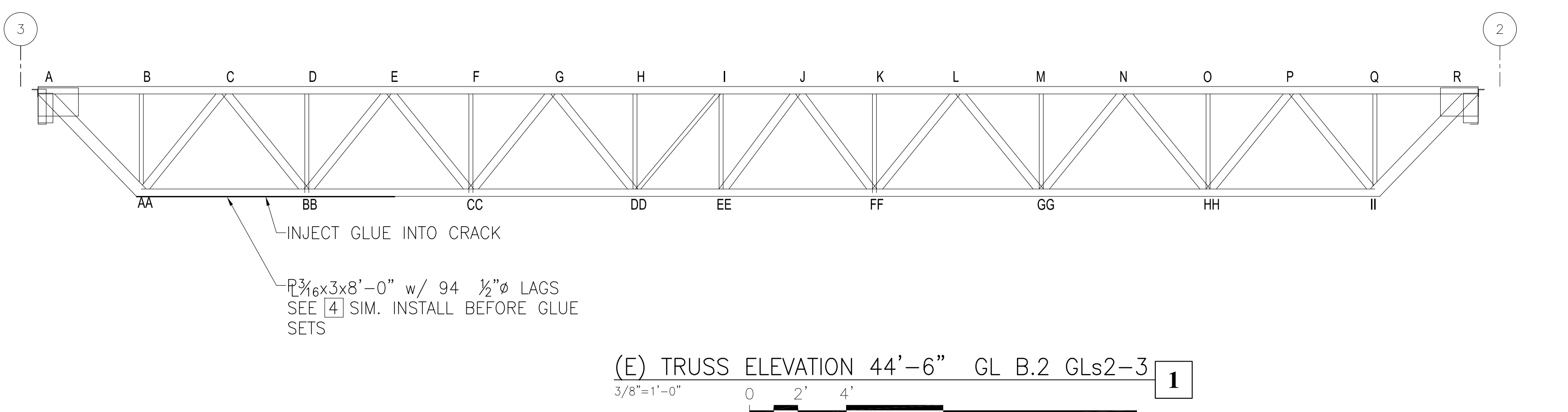
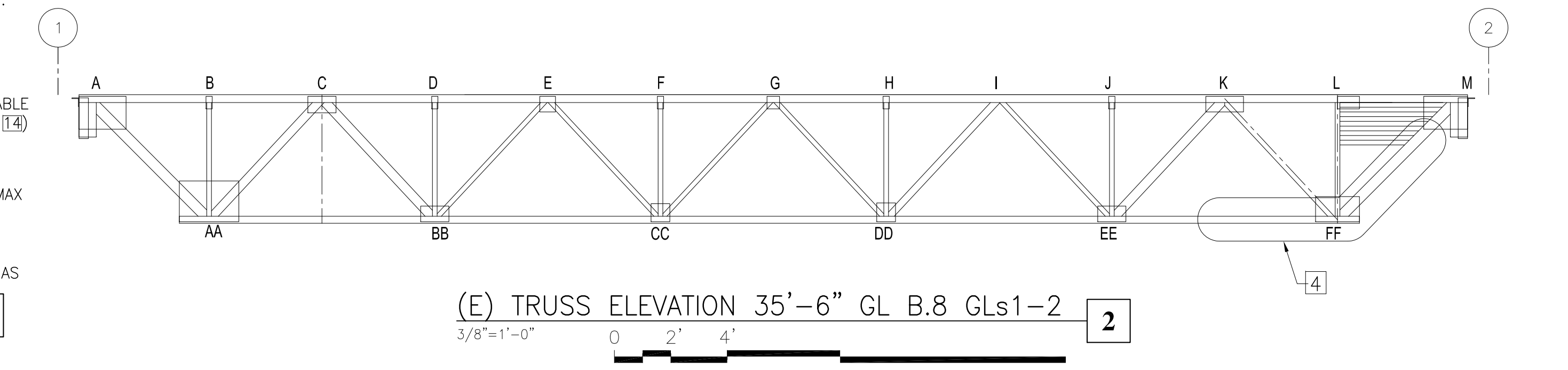
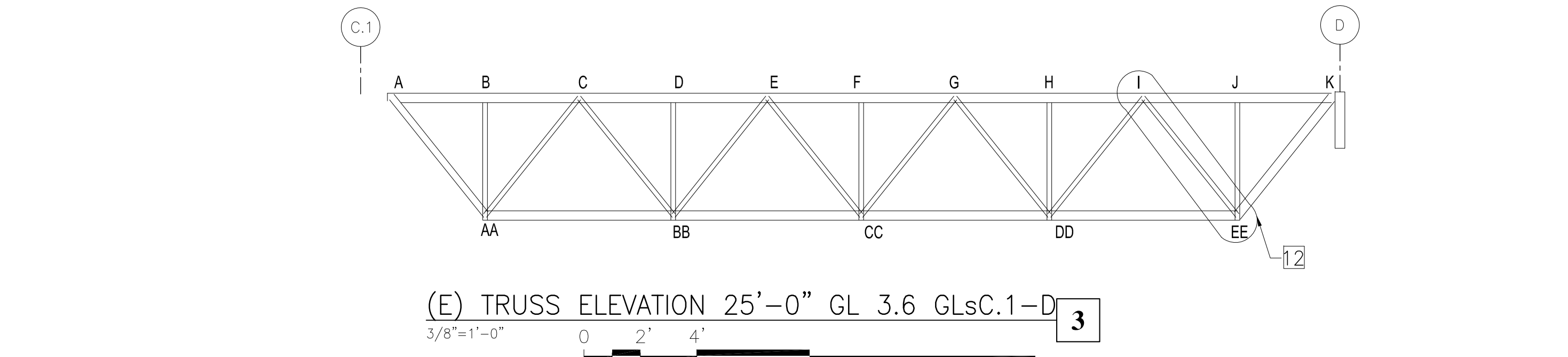
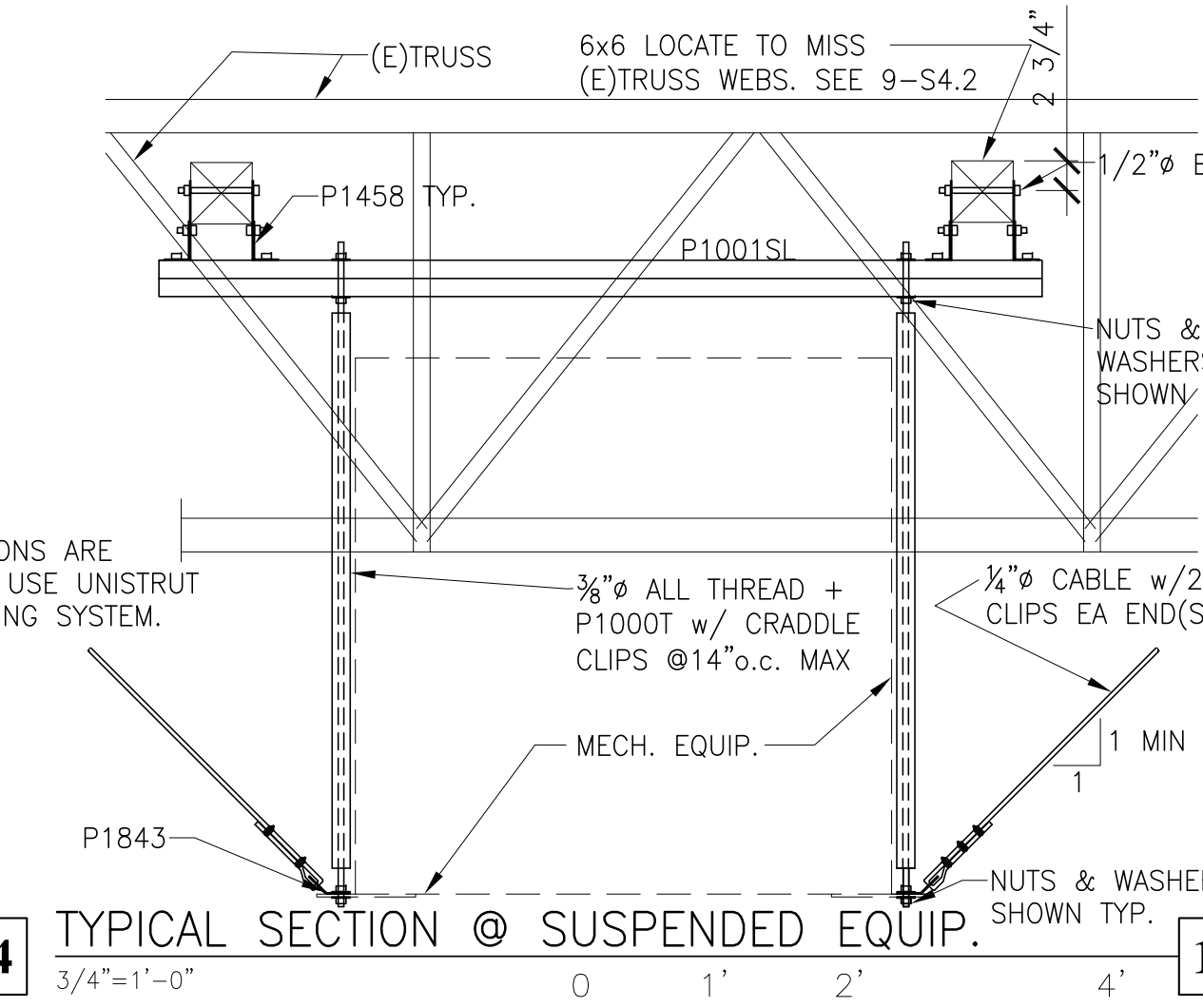
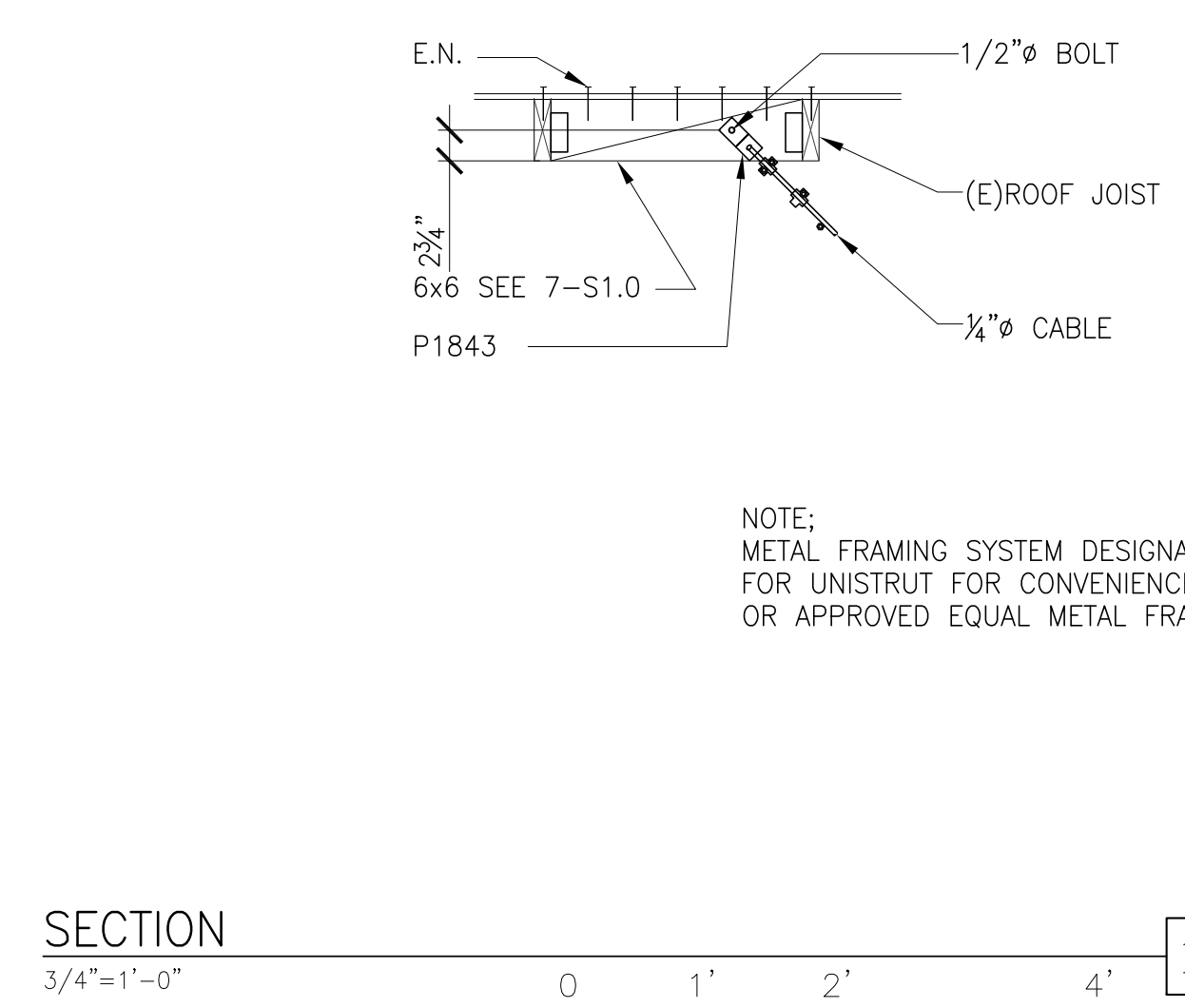
SECTIONS & DETAILS
S4.1





- A. FOR INJECTION INTO CRACKS USE A LOW VISCOSITY, 2 PART, HIGH STRENGTH, MULTI-PURPOSE EPOXY RESIN SUCH AS SIKADUR 35 HI MOD LV OR EQUAL. FOLLOW ALL MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. CLAMP TO 150 PSI FOR 1 HOUR OR APPLY NAILS OR SCREWS IMMEDIATELY.
- B. FOR GLUING MEMBERS TO PLY WOOD OR TO MEMBERS USE A WOOD GLUE CONFORMING TO ASTM D4236 SUCH AS TITEBOND III OR EQUAL. CLAMP TO 150 PSI FOR 1 HOUR OR APPLY NAILS OR SCREWS IMMEDIATELY.
- C. SUBMIT GLUE AND EPOXY DATA SHEETS.
- D. PRE-DRILL HOLES FOR NAILS OR SCREWS
- E. ALL (N)UMBER TO BE OF#1
- F. REMOVE THE MINIMUM AMOUNT OF SHORING TO ACCOMPLISH WORK. REMOVE SHORING AFTER INSTALLATION OF REPLACEMENT TRUSSES

REPAIR NOTES

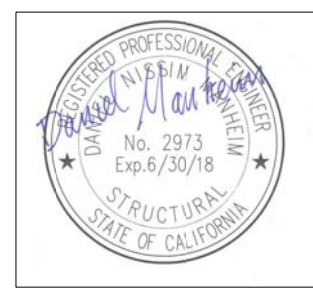


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ELEVATIONS &
DETAILS
S4.3