



ADDENDUM NUMBER 1

To the Contract Documents
For the Construction of

**Professional Development Center
and Kitchen**

For
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT
Bid No F16-05

December 28, 2015

NOTICE TO BIDDERS

It is intended that all work affected by the following provisions shall conform to the original plans and specifications. Delete or modify each of the following items wherever appearing on Drawings, and/or Specifications. Acknowledge receipt of Addendum No. 1 in the space provided on the Contractor's Proposal. Failure to do so may subject bidder to disqualification.

GENERAL:

Item Number 1; The Bid Date has been extended to **Tuesday, January 12, 2016 @ 2:00PM.**

Reference; Notice Inviting Bids, Second paragraph; Revise the last sentence to read:
"The Bids are due at 2:00PM on Tuesday, January 12, 2016"

Reference; Notice Inviting Bids, Last paragraph, Important Dates; Revise the following to read:

"Addendum Due	Tuesday, January 5, 2015
Bid Opening	2:00PM on Tuesday, January 12, 2016
Bid Posting on Facilites Website	Tuesday, January 12, 2016"

Item Number 2; The Architects estimate for this project is **\$1,200,000.**

SPECIFICATIONS:

Item Number 3; Reference: Bid Cover Sheet; Replace this page with the attached Bid Cover Sheet.

Item Number 4; Reference: Bid Form; Replace the first page with the attached Bid Form first page.

Item Number 5; Reference: Supplementary General Conditions, Article 3 – The Contractor; Revise the Milestone Schedule to read:

“Total Duration	120 Calendar Days
Start of Construction	February 8, 2016
End of Construction	May 31, 2016”

Omit:

“Slurry Asphalt Completion

Item Number 6; Reference: Section 01 52 00 Construction Facilities, Omit the following:

Section 1.13.B.8 & 9

Section 1.13.D

Section 1.13.F

Section 1.21.A, B, C, D & E

Item Number 7; Reference: Section 01010 – Scope of Work; Omit paragraph 1.2.1.1.b ~~Security~~.

Item Number 8; Add attached Section 11132 – Projection Screens.

Item Number 9; Reference: Section 16721- Fire Alarm, Paragraph 1.3.2; In the third sentence, make the following revisions:

“The Contractor shall ~~be the Factory Authorized Distributor for the branch of equipment offered and shall~~ have been engaged in the business of supplying

Item Number 10; Reference: Section 16740 – Paging System; Omit Paragraph 1.3.3;

Item Number 11; Reference: Section 16740 – Paging System, Paragraph 1.4.1; In the fourth sentence, make the following revisions:

“The Contractor shall ~~be the Factory Authorized Distributor for the branch of equipment offered and shall~~ have been engaged in the business of supplying

Item Number 12; Reference: Section 16750 – Computer Network Cabling System;

Add paragraph 1.7.1.1 to read: “All faceplates in the areas of this remodel shall be new.”

Revise paragraph 1.8 to read: “ACCESS POINTS and CABLING”

Add paragraph 1.8.2 to read: “Wireless Access Points (WAP) indicated on drawings shall be BOE Cisco 3702 WAP Model in accordance with District Standards.”

Item Number 13; Reference: Section 16761 – Conference Room Audio/Visual System, Paragraph 1.3.1; In the first sentence, make the following revisions:

“The Contractor shall be a ~~Factory Authorized Distributor~~ and warrantee station for the brand of equipment specified

Item Number 14; Reference: Section 16761 – Conference Room Audio/Visual System; Revise paragraph 1.5.1.3 to read:

“The Second Section shall include a list of the proposed instrumentation to be used by the Contractor.”

Item Number 15; Reference: Section 16761 – Conference Room Audio/Visual System; Paragraph 3.2.1; In the third sentence, make the following revisions:

“It shall be the responsibility of the ~~Factory Authorized Distributor of this equipment~~ this Contractor to install the equipment.....”

Item Number 16; Reference: Section 16761 – Conference Room Audio/Visual System; Paragraph 3.4.1; Make the following revisions:

“Manufacturer’s Field Services: Provide the services of a ~~duly Factory Authorized Service Representative for the Project location~~ to supervise the field assembly and connection.....”

DRAWINGS:

Item Number 17; Reference: Sheet T, Title Sheet, General Notes: Add the following to General Note 1.

“All questions need to be addressed during the bid period”

Item Number 18; Reference: Sheet T, Title Sheet, Scope of Work, Item 9; Omit 9b Security.

Note: Security system is existing by the District and not a part of this bid.

Item Number 19; Reference: Sheet A-1, Site Plan; Replace this sheet with attached sheet **A-1, Site Plan,**

Note: Revised sheet provides clarification on parking expansion, car charging stations and associated site modifications and adds details 4,10,11,16, 22,23, 25,26 and 27.

Item Number 20; Reference: Sheet A-3, First Floor Demo Plan & New Work Plan; Replace this sheet with the attached sheet **A-3, First Floor Demo Plan & New Work Plan**

Note: Revised sheet provides clarification on demo floor and ceiling work.

Item Number 21; Reference: Sheet A-4, First Floor Reflected Ceiling Plan; Replace this sheet with attached sheet **A-4, First Floor Reflected Ceiling Plan**

Note: Revised sheet provides clarification of ceilings in Break Areas A105 and A107 and division soffit in Cafeteria A101, adds General Notes and adds detail 23.

Item Number 22; Reference: Sheet A-5, Second Floor Demolition Plan; Replace this sheet with attached sheet **A-5, Second Floor Demolition Plan.**

Note: Revised sheet provides clarification of demolition work and relocation of existing dual drinking fountain

Item Number 23; Reference; Sheet A-6, Second Floor Plan Entire Floor; Replace this sheet with attached sheet **A-6, Second Floor Plan Entire Floor.**

Note: Revised sheet provides revisions to AV/Studio 208 and adds detail 28.

Item Number 24; Reference; Sheet A-7, Second Floor Reflected Ceiling Plan; Replace this attached sheet with sheet **A-7, Second Floor Reflected Ceiling Plan.**

Note: Revised sheet provides revisions to AV/Studio 208, Storage 205, adds General Notes and adds details 25, 27 and 28.

Item Number 25; Reference; Sheet A-9, Sections & Details; Replace this sheet with attached sheet **A-9, Sections & Details.**

Note: Revised sheet provides adds details 5 and 6.

Item Number 26; Reference; Sheet A-10, Door Schedule Finish Schedule & Details:

Door Schedule; Omit Door 208
Finish Schedule; Omit Room A207
Omit Detail 18.

Item Number 27; Reference; Sheet A-12, Exterior Stair; Replace this sheet with attached sheet **A-12, Exterior Stair.**

Note: Revised sheet identifies low retaining wall in detail 7 and adds detail 26.

Item Number 28; Reference; Sheet P-0.01, Plumbing Legends, Symbols & Notes; Replace this sheet with attached sheet **P-0.01, Plumbing Legends, Symbols & Notes.**

Note: Revised sheet makes changes to the Plumbing Equipment Schedule.

Item Number 29; Reference; Sheet P-1.01, Plumbing First Floor Plan; Replace this sheet with attached sheet **P-1.01, Plumbing First Floor Plan.**

Note: Revised sheet adds condensate drain.

Item Number 30; Reference; Sheet P-2.01, Plumbing Second Floor Plan; Replace this sheet with attached sheet **P-2.01, Plumbing Second Floor Plan.**

Note: Revised sheet adds condensate drain.

Item Number 31; Reference; Sheet P-3.01, Plumbing Details; Replace this sheet with attached sheet **P-2.01, Plumbing Details.**

Note: Revised sheet adds detail 4 - Drywell Assembly.

Item Number 32; Reference; Sheet E1.3 First Floor Fire Alarm Plan; Add General Note to read:

“All Fire Alarm Wiring to be installed in code size conduit and interconnect all devices shown back to alarm panel.”

Item Number 33; Reference; Sheet E1.3 First Floor Fire Alarm Plan; The new Fire Alarm Annunciator Panel to be located at same location on first floor as the current panel it is replacing.

End of Addendum 1

**Ralph Pacini,
PCH ARCHITECTS, LLP**

SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT
BID COVER SHEET

BID NO.: F16-05 **DSA APP #:** _____ **BID DUE:** January 12, 2016, 2:00 PM

PROJECT NAME: Professional Development Center and Kitchen

PROJECT ADDRESS: 4030 Georgia Blvd., San Bernardino, CA 92407

THE WORK UNDER THIS BID IS A PROJECT OF: FACILITIES DEPARTMENT

BID PACKAGE SUBMITTAL FROM:

BIDDER/CONTRACTOR: _____

BIDDER CONTACT: _____

BIDDER TELEPHONE: _____

BIDDER EMAIL: _____

CONTENTS MUST INCLUDE: (Please Check Each Box)

Attachments:

- ☐ 1 - Bidder's Non-Collusion Affidavit
- ☐ 2 - Site Visit Certification
- ☐ 3 - Certification of Compliance with DVBE Policy)
- ☐ 4 - Proposed Subcontractors
- ☐ 5 - Bid Bond Form
- ☐ 6 - Bidder References & Responsibility Information
- ☐ 7 – Certificate Regarding Workers' Compensation
- ☐ 8 – Acknowledgement of Bidding Practices Regarding Indemnity Form

SUBMIT BID TO: **BID BOX - PURCHASING DEPARTMENT**
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT
777 NORTH "F" STREET
SAN BERNARDINO, CA 92410

NOTE: This sheet must be completed and affixed to the outside of the bid envelope.

BID FORM

SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT
PROFESSIONAL DEVELOPMENT CENTER AND KITCHEN

4030 Georgia Blvd., San Bernardino, CA 92407

Bid No. F16-05

CONTRACTOR
NAME:

ADDRESS:

TELEPHONE:

()

FAX:

()

EMAIL:

PART 1 - GENERAL

1.1 SUMMARY:

The work includes the furnishing and installing of projection screens complete as indicated and specified. The Conditions of the Contract and Division 1 apply to this section as fully as if repeated herein.

1.2 SUBMITTALS:

1.2.1 Manufacturer's Data: Submit copies of manufacturer's catalog cuts, specifications and installation instructions.

1.2.2 Shop Drawings: Submit shop drawings showing dimensions and details of mounting for projection screen.

1.3 DELIVERY, STORAGE AND HANDLING:

Do not deliver projection screens until the building is enclosed and ready for screen installation. Protect screens from damage during delivery, storage, handling and installation.

PART 2 - PRODUCTS

2.1 ELECTRICALLY OPERATED REMOTE CONTROL SCREENS:

Screens shall be recessed, electrically operated projection screens. Acceptable products include:

Da-Lite Screen Co.; Executive Electrol
Draper Screen Co.; Ambassador

2.1.1 Screen Case: Hardwood case with metal-lined motor compartment, hinged or removable access panel to motor compartment, electrical outlet box and manufacturer's standard prime coat finish. Equip case with hinged bottom connected to drive mechanism for automatic opening and closing with raising and lowering of screen surface. Mount hinges to allow alignment of bottom panel to adjacent ceiling surface.

2.1.2 Motor Unit: Provide motor unit of size and capacity recommended by the screen manufacturer. Motor shall be instant reversing, gear drive motor with permanently lubricated ball bearings, automatic thermal overload protection and pre-set limit switches to automatically stop the screen in "up" and "down" positions. Provide a 3-button (UP, DOWN, STOP) remote control switch with cover for flush wall mounting. Stop action shall be positive to prevent coasting.

2.1.3 Screen: Screen surface shall be flame-retardent and mildew resistant glass beaded fiberglass with black masking borders. Mount top of screen fabric to a minimum 5" diameter rigid metal roller, with roller supported on brackets with self-aligning bearings.

- .1 Screen surface to be Matte White.
 - a. Half angle: 60 degrees
 - b. Gain: 1.0
- .2 Screen size to be 65" high by 116" wide.

PART 3 - EXECUTION

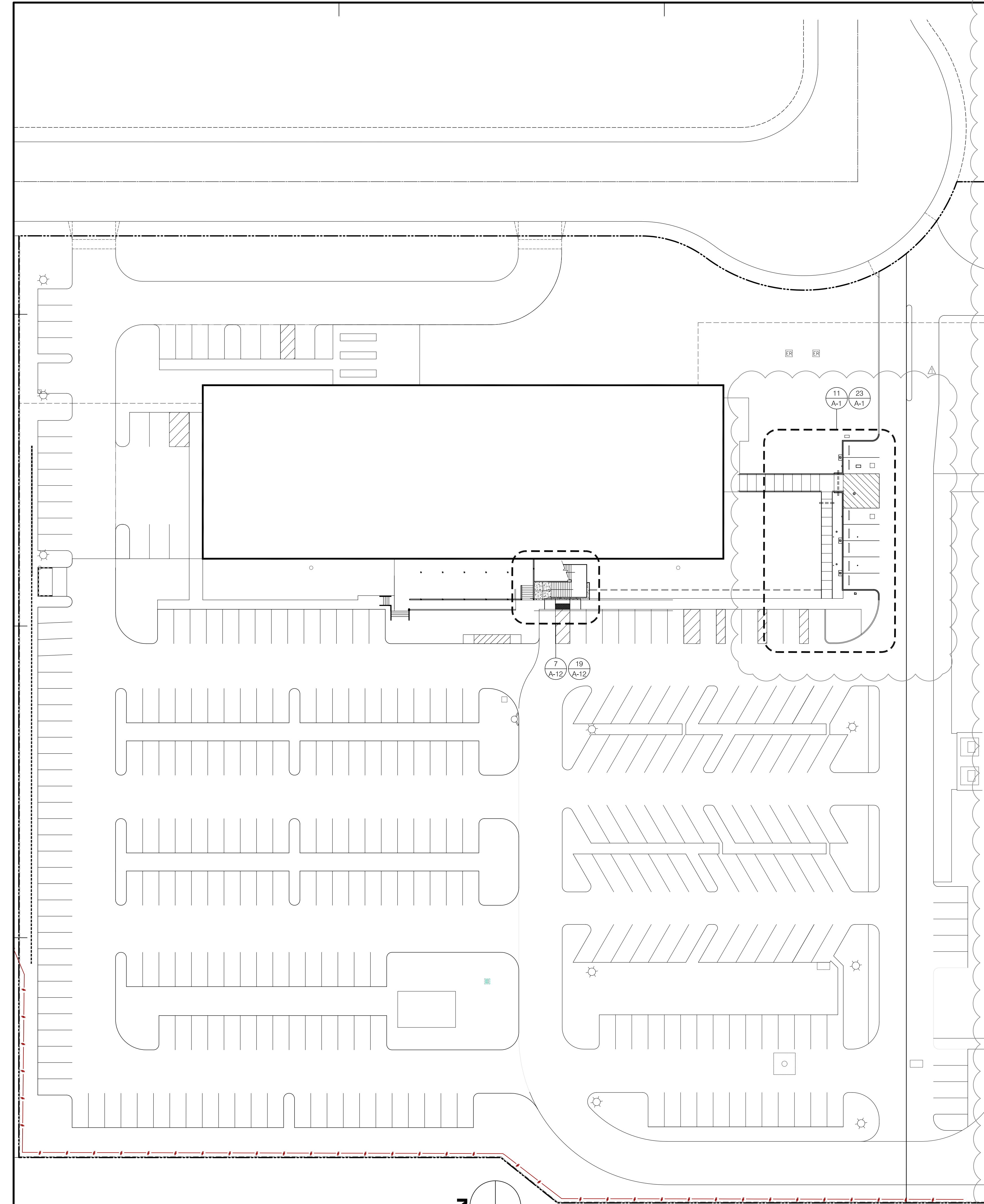
3.1 INSTALLATION:

Install projection screens and accessories at locations shown in accordance with the manufacturer's instructions. Install screens level, plumb, secure and at proper height. Install screen above suspended ceilings using hanger rods and adjust so that bottom panel is flush with adjacent ceiling surface. Connection to power source and interconnection to key operated switch is specified in Division 16.

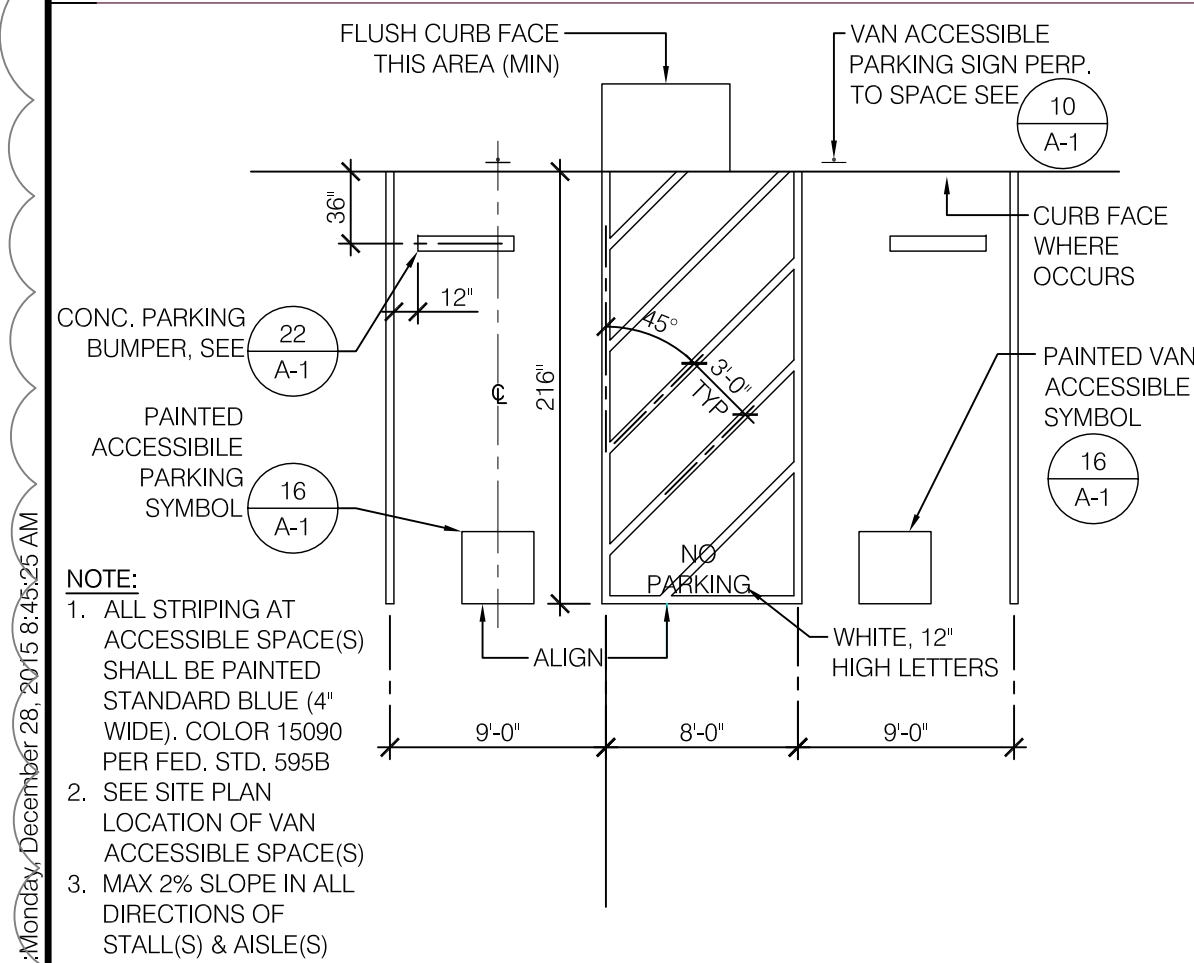
3.2 PROTECTION:

Provide protection for installed screens so that they will be in satisfactory operating condition, without damage, at completion of the project. Repair or replace damaged units as directed by Architect.

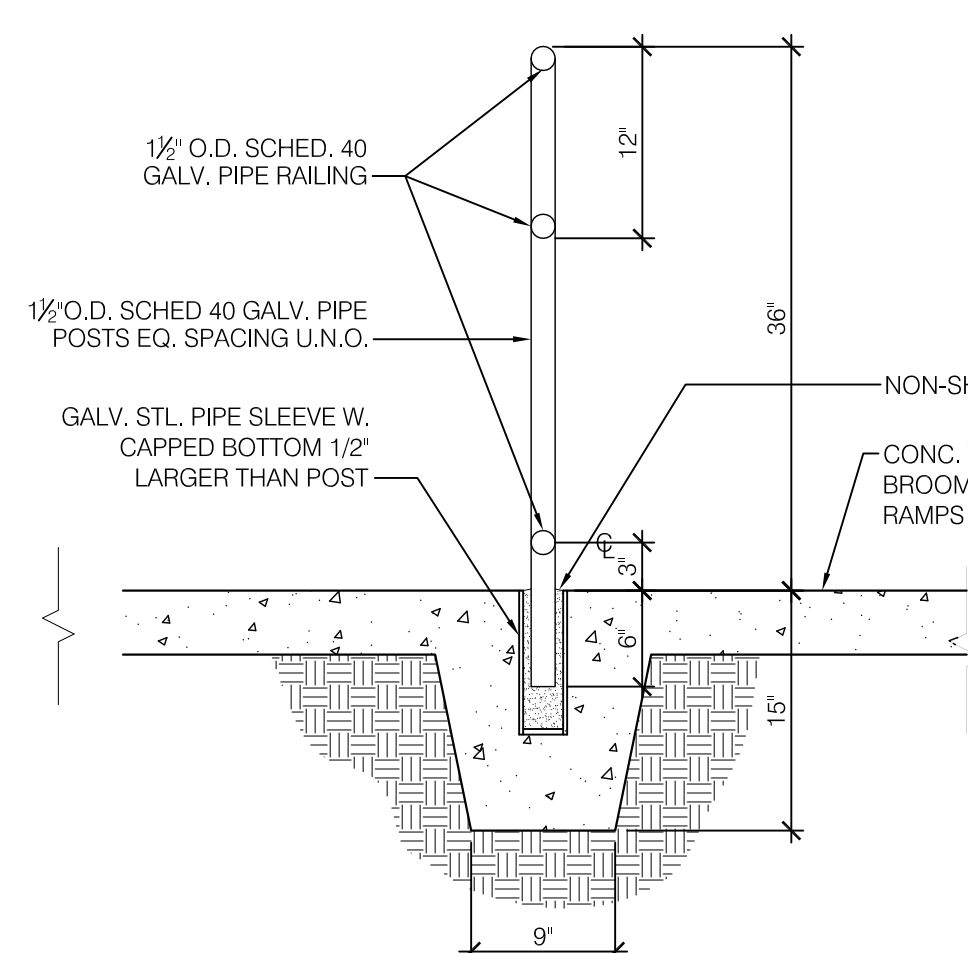
* * * * *



19 SITE PLAN
1" = 30'-0"



25 ACCESSIBLE PARKING STALL
1/8" = 1'-0"



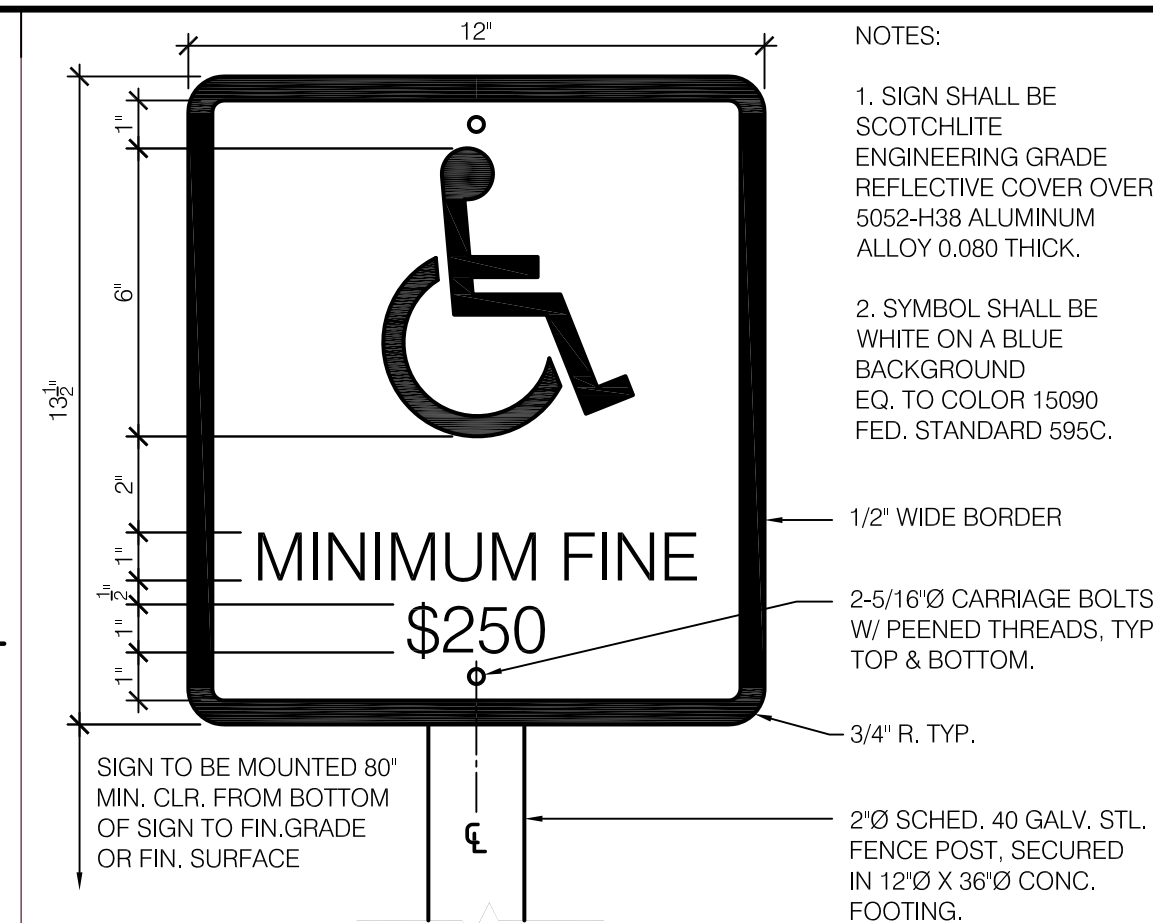
26 TYPICAL HANDRAIL DETAIL
1" = 1'-0"

CJ CONTROL JOINT
PROVIDE @ 10' O.C. MAX (U.N.O.)

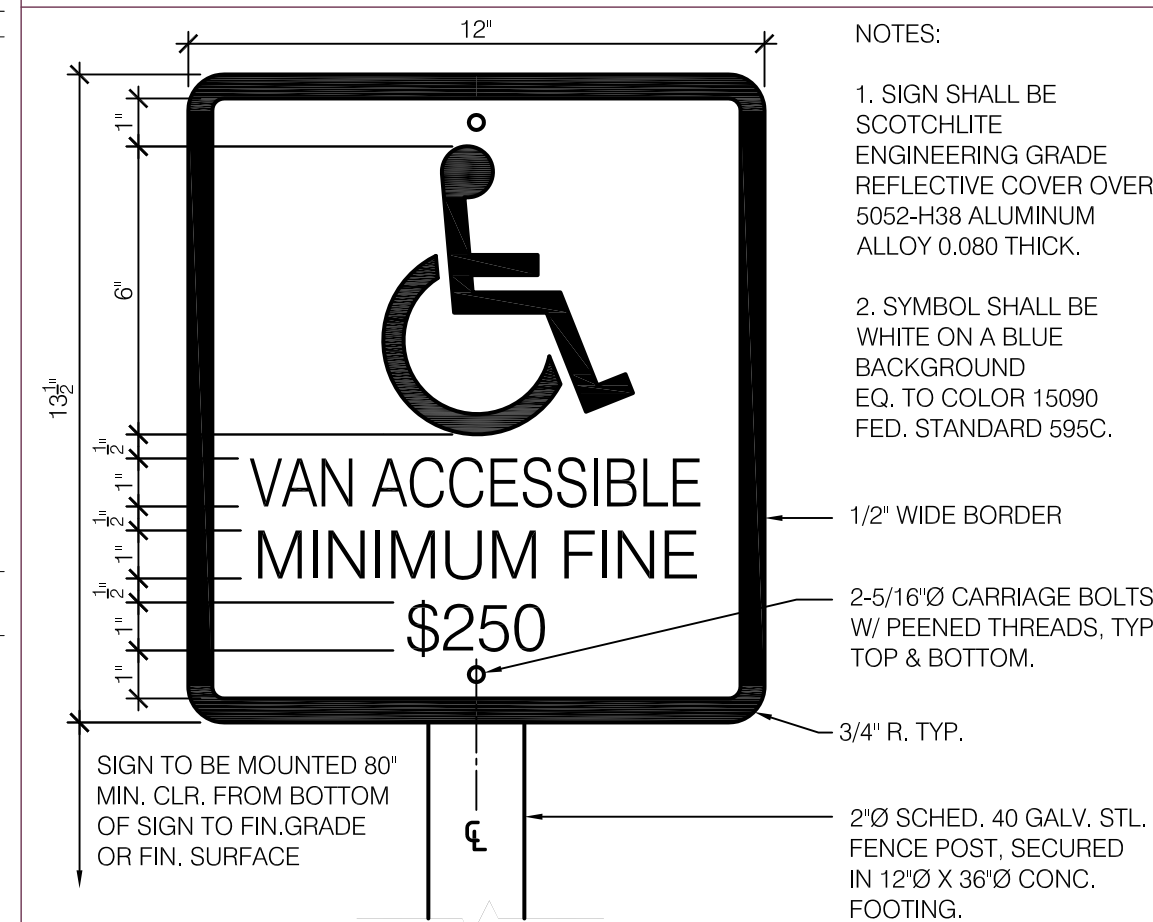
EJ EXPANSION JOINT
PROVIDE @ 40' O.C. MAX (U.N.O.)

TJ TOOLED JOINT
PROVIDE @ 5' O.C. MAX (U.N.O.)

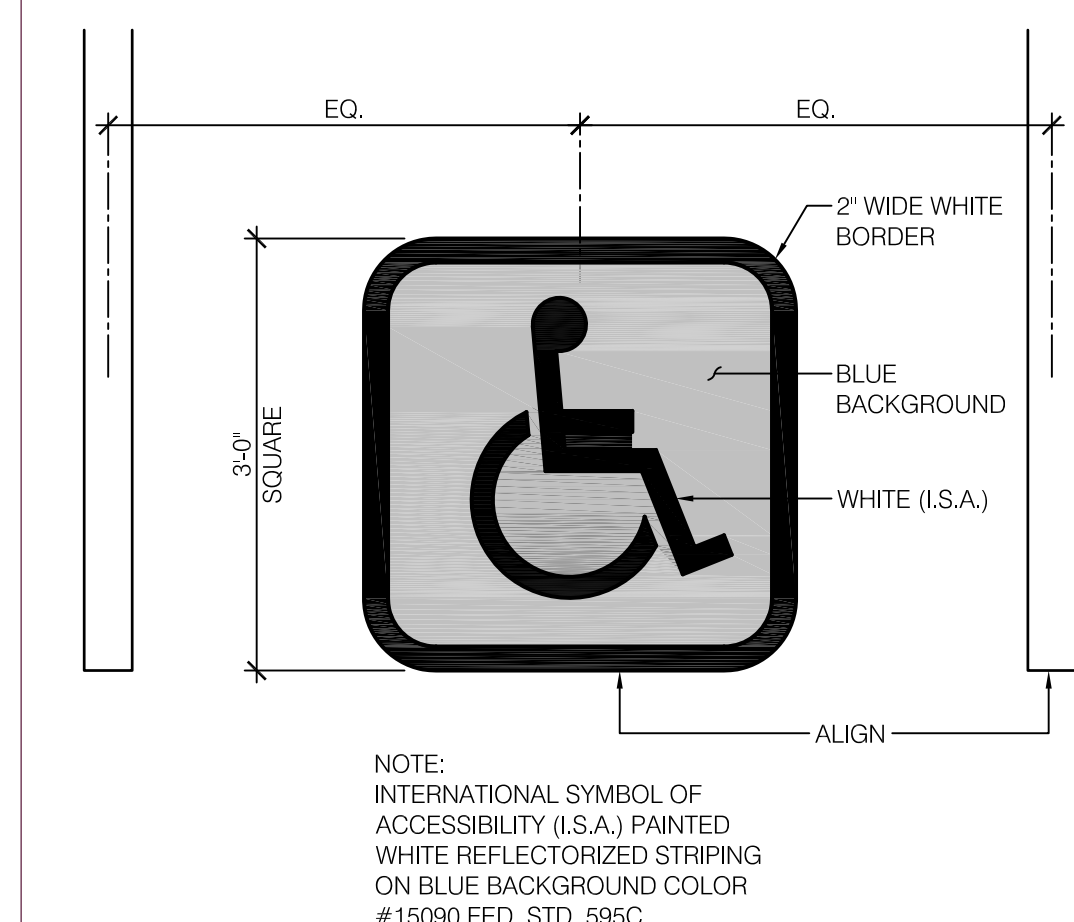
27 CONCRETE FLATWORK JOINTS
1 1/2" = 1'-0"



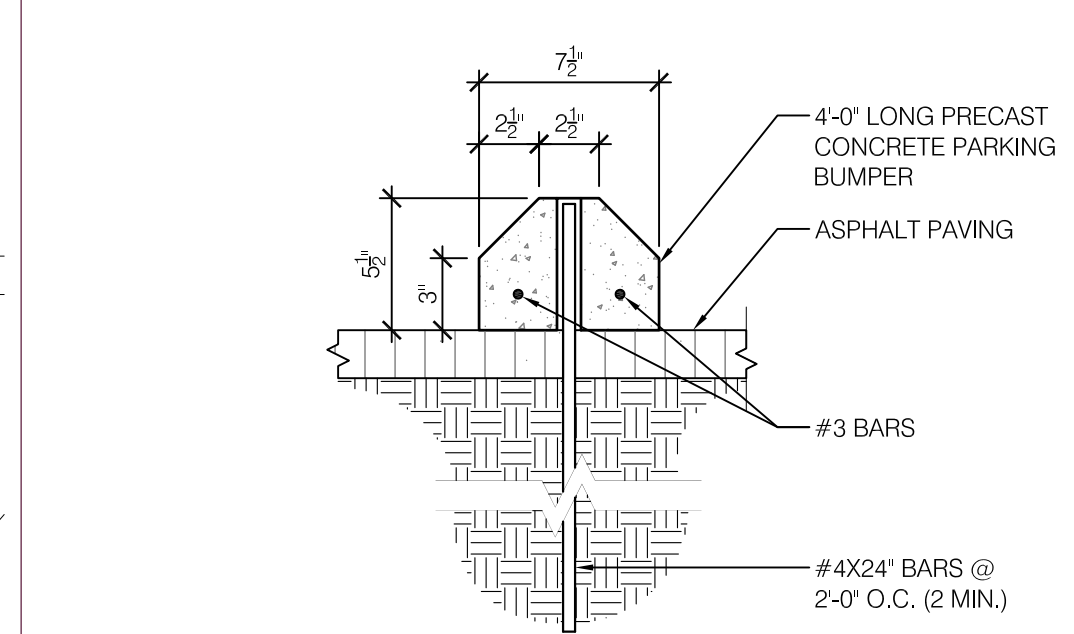
4 ACCESSIBLE PARKING SIGNAGE
3" = 1'-0"



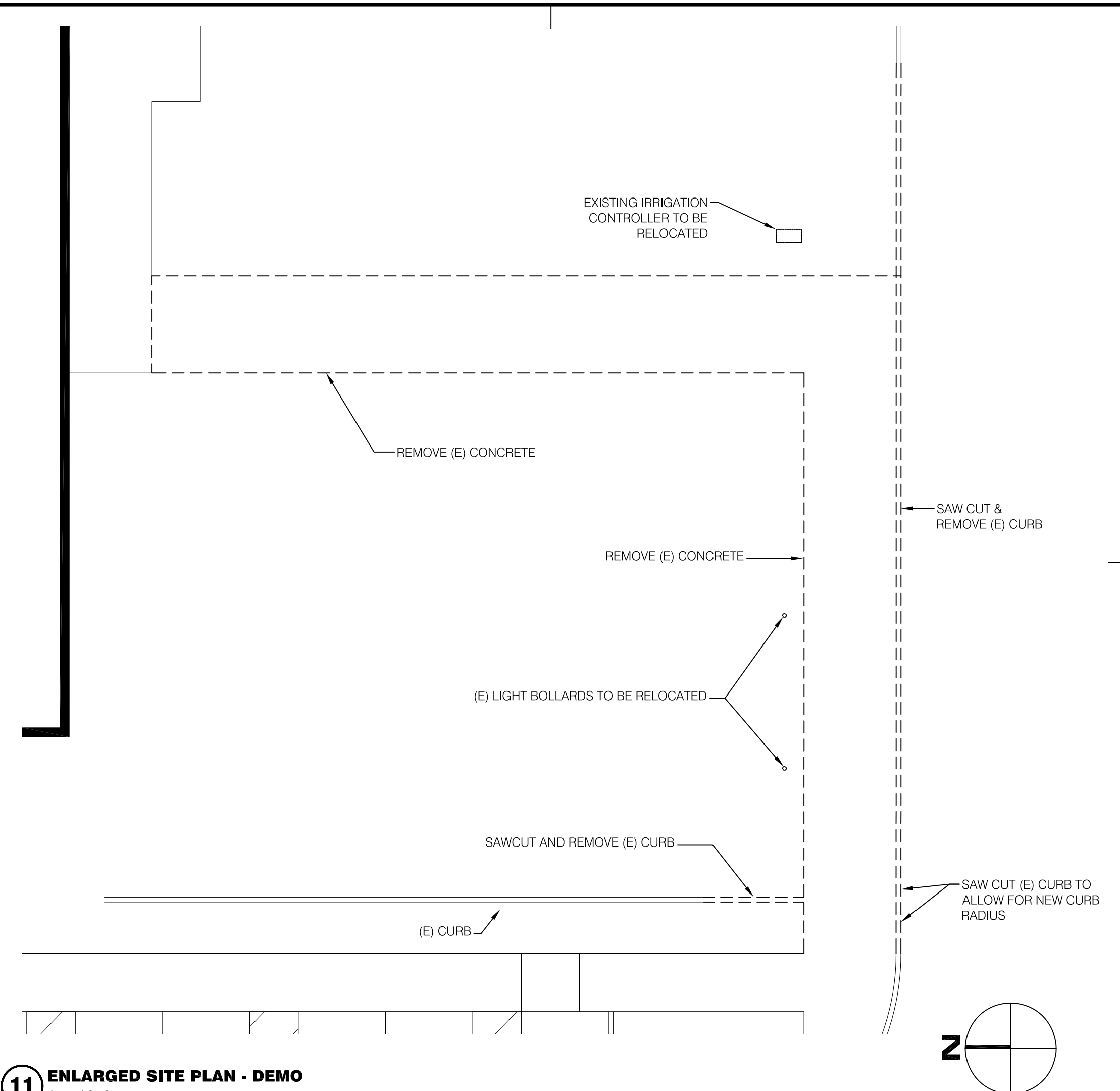
10 ACCESSIBLE VAN PARKING SIGNAGE
3" = 1'-0"



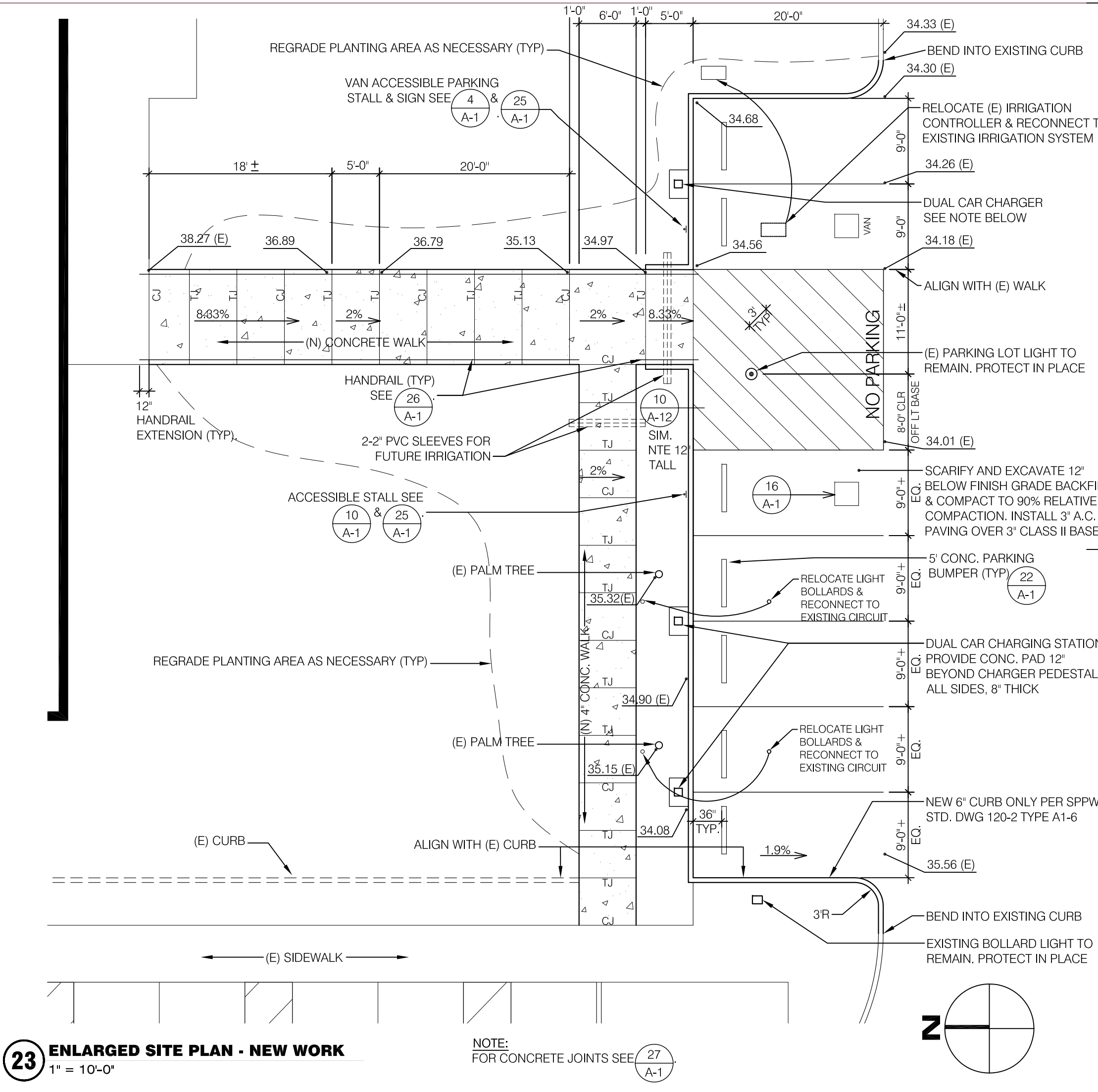
16 PAINTED ACCESSIBLE PARKING SYMBOL
3/4" = 1'-0"



22 CONCRETE WHEEL STOP
1 1/2" = 1'-0"



11 ENLARGED SITE PLAN - DEMO
1" = 10'-0"



23 ENLARGED SITE PLAN - NEW WORK
1" = 10'-0"

peh
architects, llp

30 South Center Street, Redlands California 92373
Telephone: 909.792.7397, Fax: 909.793.7873

ARCHITECT STAMP CONSULTANT STAMP

CONSULTANT LOGO

**PROFESSIONAL DEVELOPEMENT
CENTER AND KITCHEN**

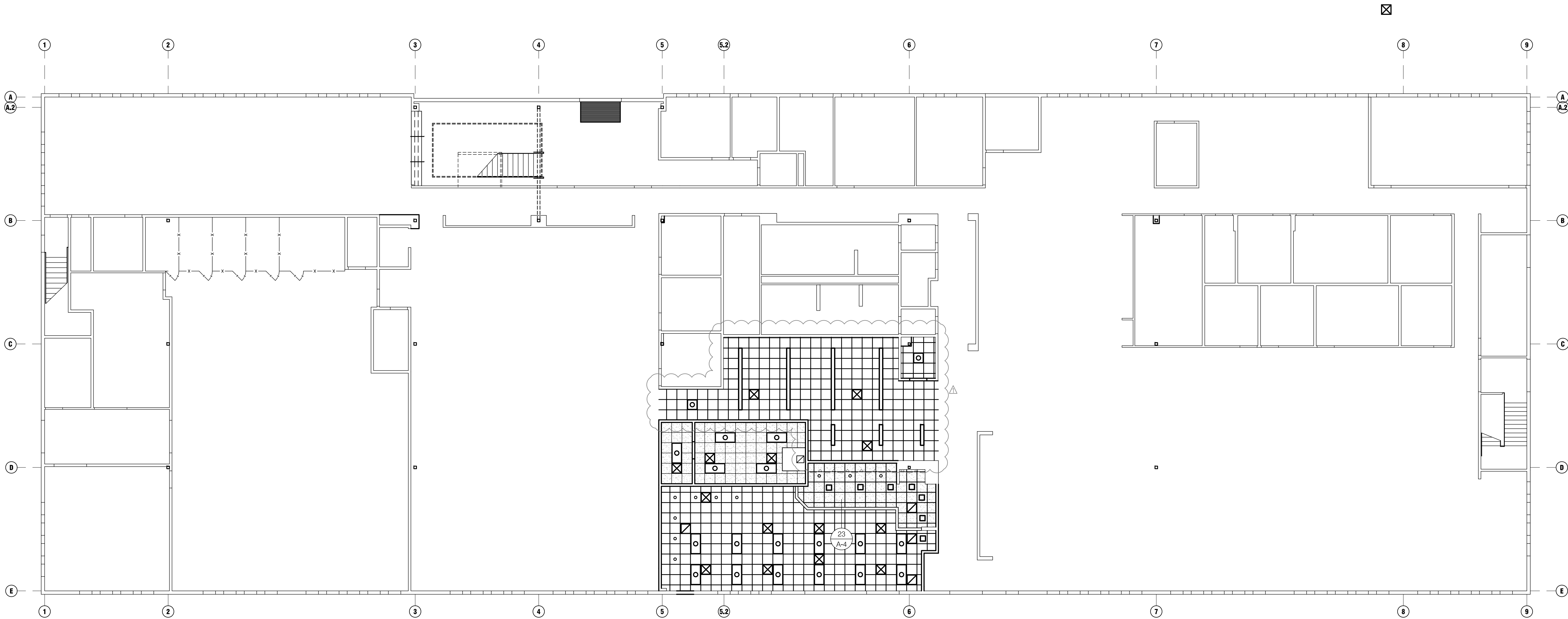
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

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12/24/15	ADDENDUM #1	
MARK	DATE	DESCRIPTION
PROJECT NO: 10962		
CHKD BY:		
DATE:		
SHEET TITLE		

SITE PLAN

A-1



13 LEVEL ONE REFLECTED CEILING PLAN
3/32" = 1'-0"

CEILING LEGEND:

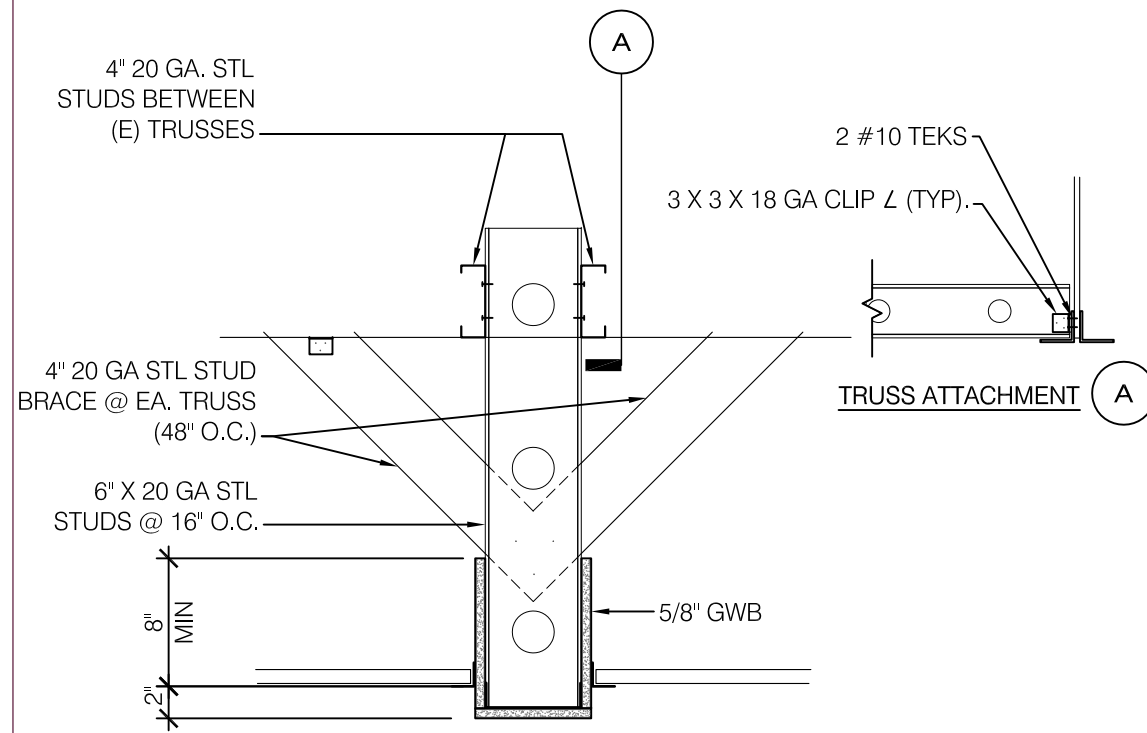
- 2x4 T-GRID WITH ACOUSTIC LAY-IN TILES (2X2 APPEARS).
- 2x2 T-GRID WITH WASHABLE ACOUSTIC LAY-IN PANELS.
- 12"x12" ACOUSTIC GLUE UP TILES ON SUSPENDED 5/8" GWB.
- HVAC DIFFUSER & GRILLES.
- RECESSED NARROW LIGHT FIXTURES IN T-GRID.
- LIGHT FIXTURES IN T-GRID.
- SURFACE MOUNTED LIGHT FIXTURES.
- RETRACTABLE SCREEN SEE 27 A-7
- RETRACTABLE PROJECTOR SEE 25 A-7

CEILING KEY NOTES:

1. REPAIR EXISTING CEILING AFTER WALL INSTALLATION.

GENERAL NOTE:

MECHANICAL AND ELECTRICAL WORK WILL BE PERFORMED ABOVE OR IN CEILINGS IN AREAS THAT ARE TO REMAIN. TO ACCOMMODATE THIS WORK CEILING SYSTEMS SHALL BE CAREFULLY REMOVED, MODIFIED IF NECESSARY AND REPLACED. ANY DAMAGED PANELS OR GRID SHALL BE REPLACED. ANY DAMAGED PANELS OR GRID SHALL BE REPLACED TO MATCH EXISTING.



23 CEILING SEPARATION SOFFIT
1" = 1'-0"

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CENTER AND KITCHEN**

SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

DSA STAMP

12/24/15

ADDENDUM #1

MARK	DATE	DESCRIPTION

PROJECT NO: 10962

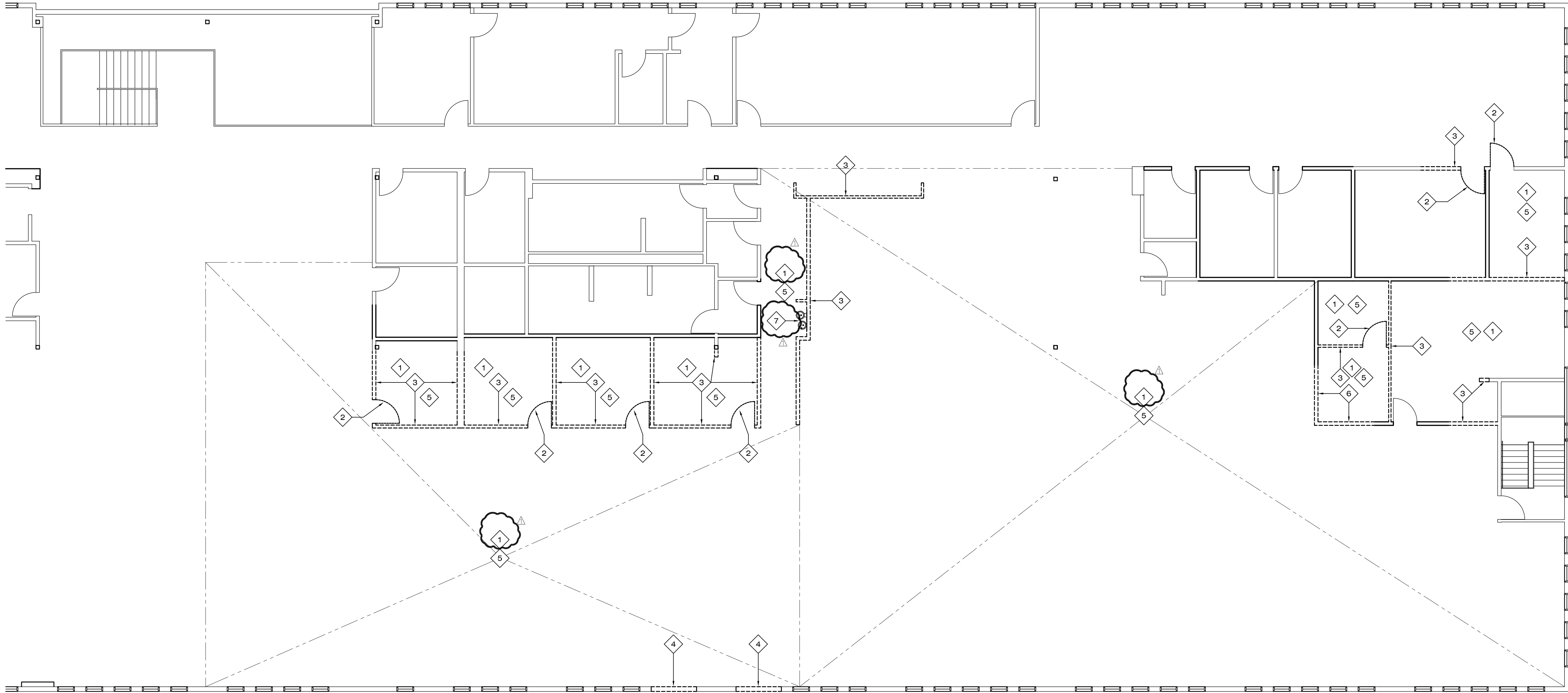
CHKD BY:
DATE:

SHEET TITLE

FIRST FLOOR
REFLECTED CEILING
PLAN

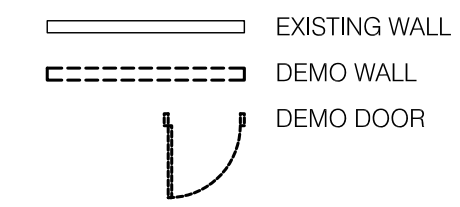
A-4

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13 2ND FLOOR DEMO PLAN
1/8" = 1'-0"

LEGEND



DEMO KEYNOTES

1. REMOVE EXISTING FLOORING
2. REMOVE EXISTING DOOR & FRAME
3. REMOVE EXISTING WALL
4. SAWCUT OPENING IN EXISTING CONCRETE WALL
5. REMOVE EXISTING CEILING
6. REMOVE PORTION OF EXISTING WALL FOR NEW WINDOW
7. RELOCATE EXISTING DUAL DRINKING FOUNTAIN



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SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

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12/24/15 ADDENDUM #1

MARK DATE DESCRIPTION

PROJECT NO: 10962

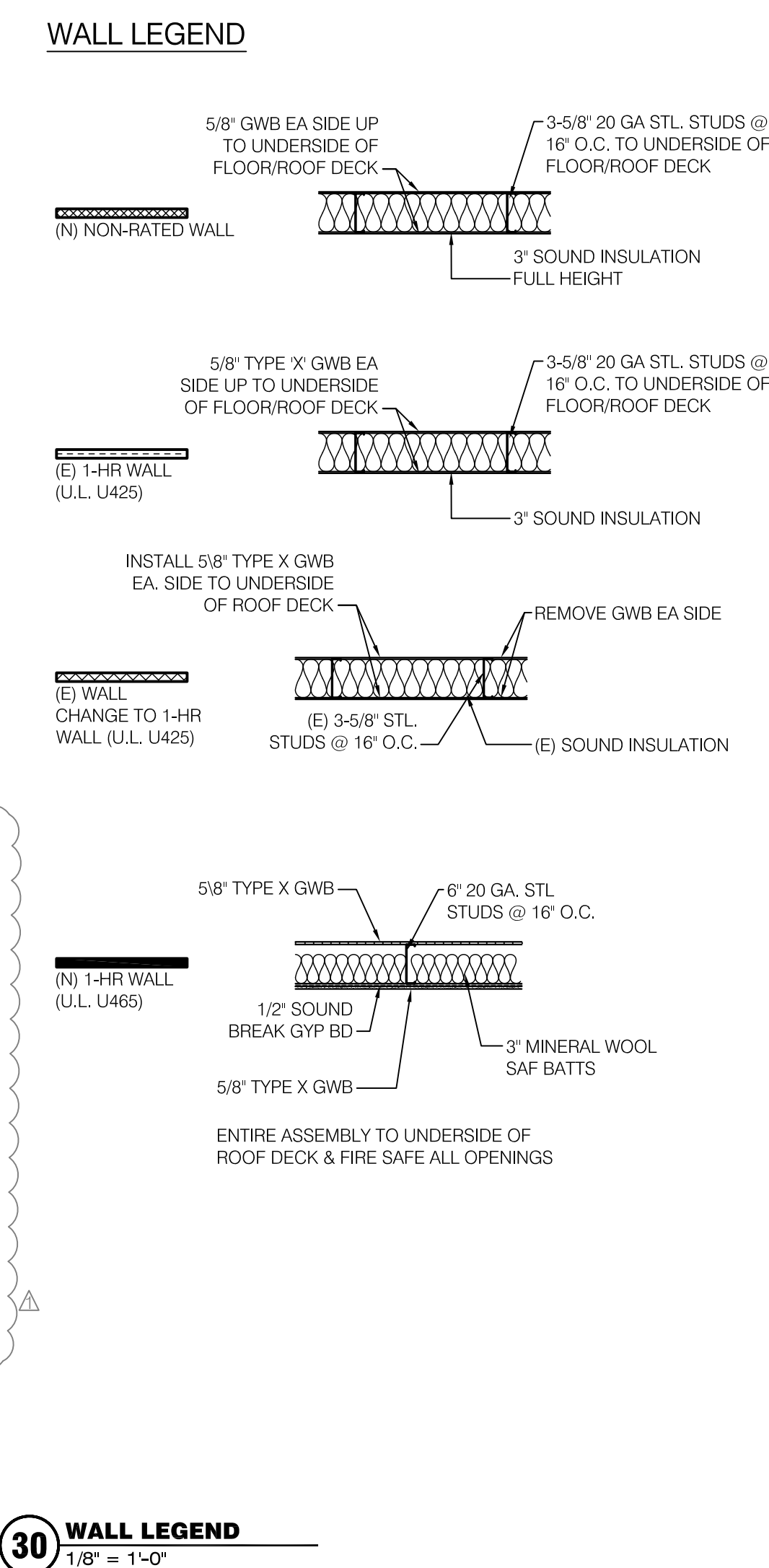
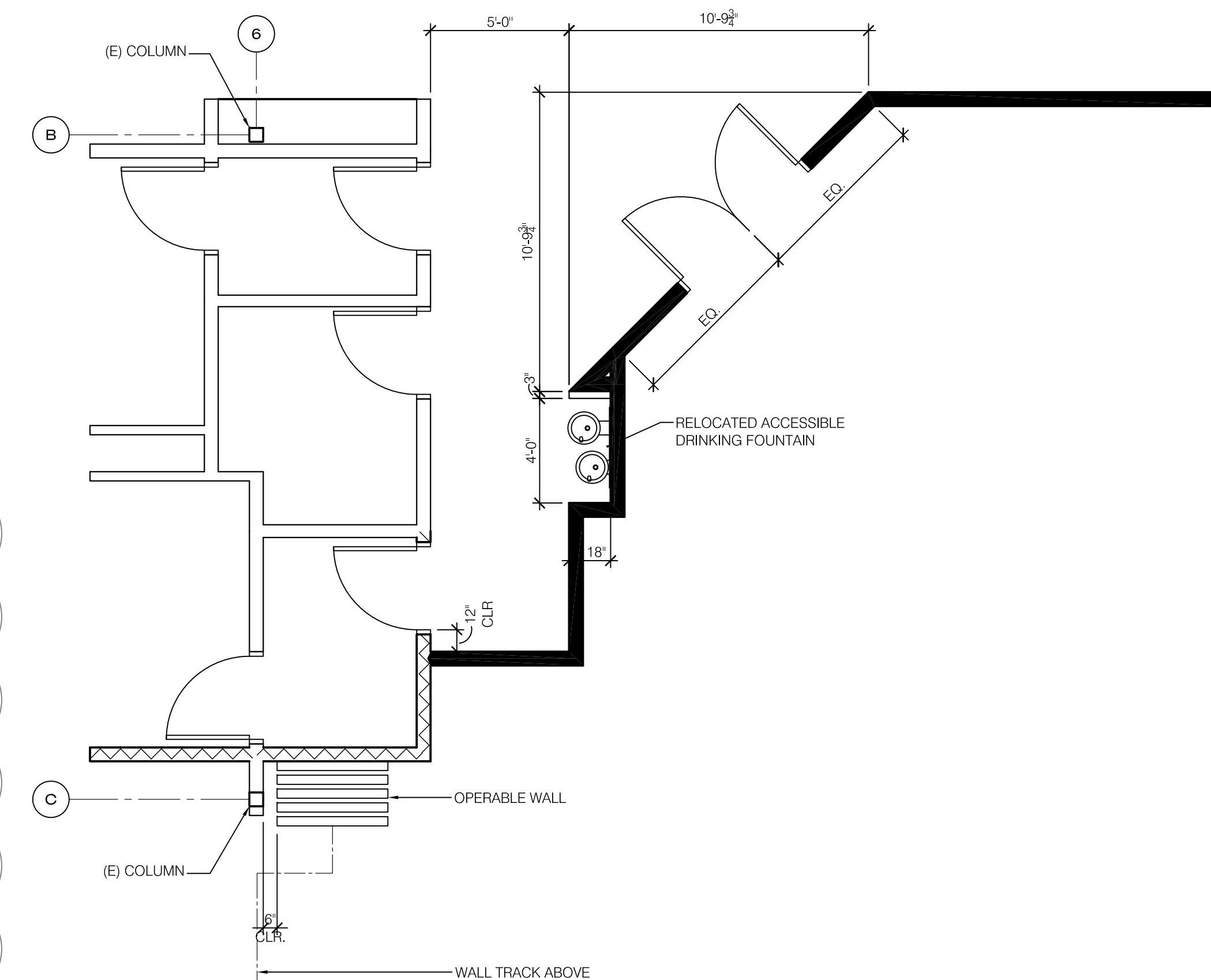
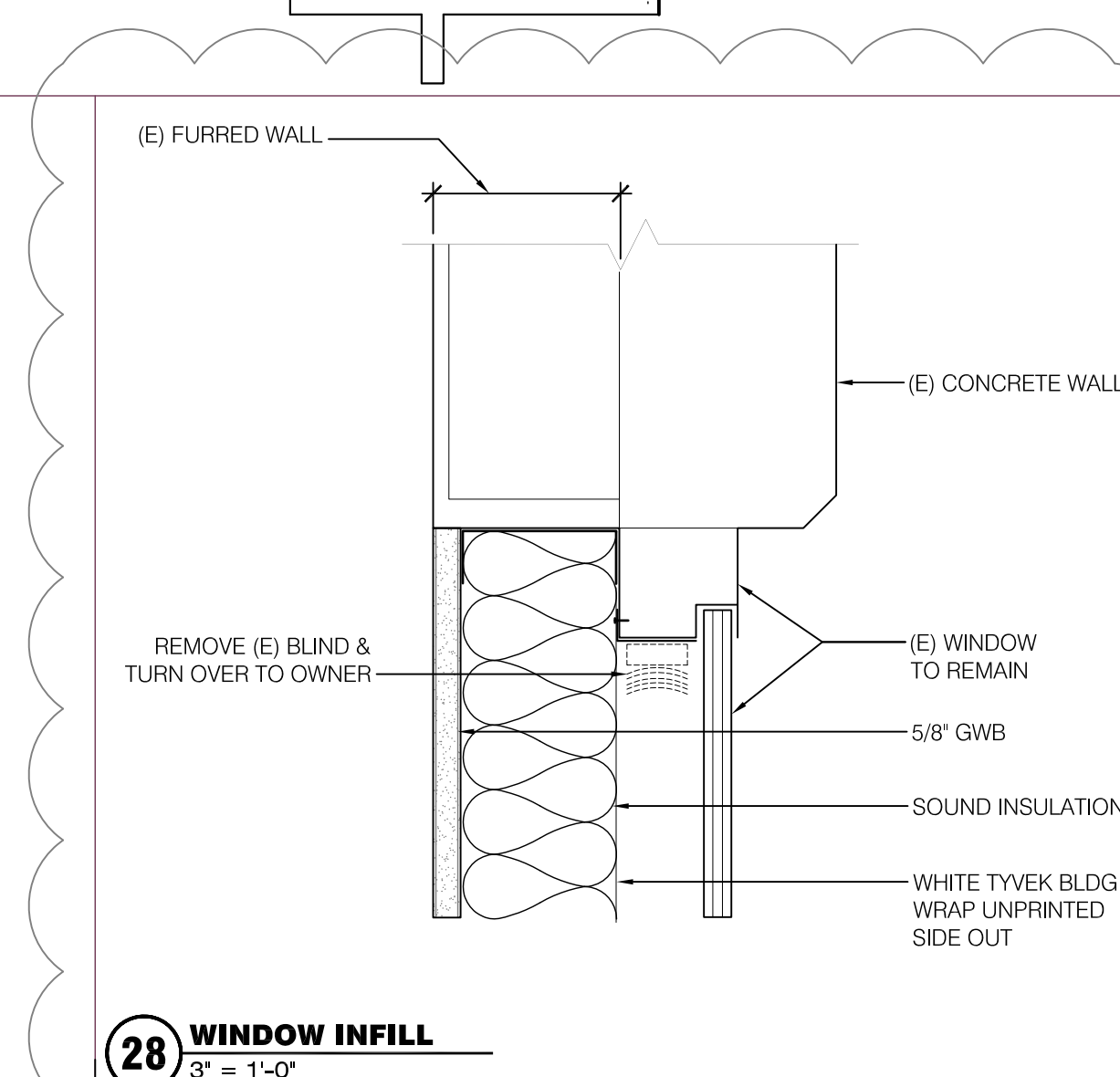
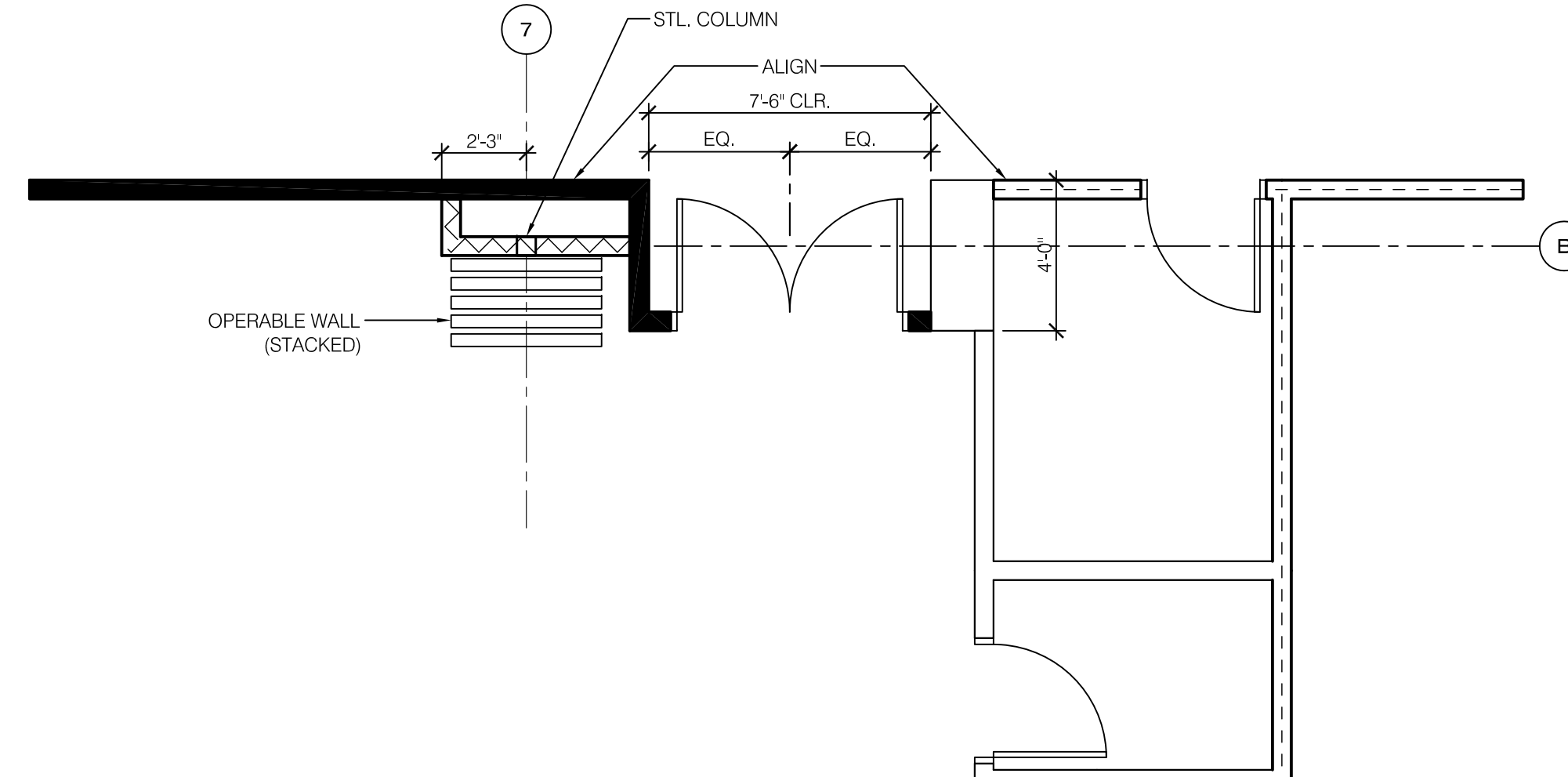
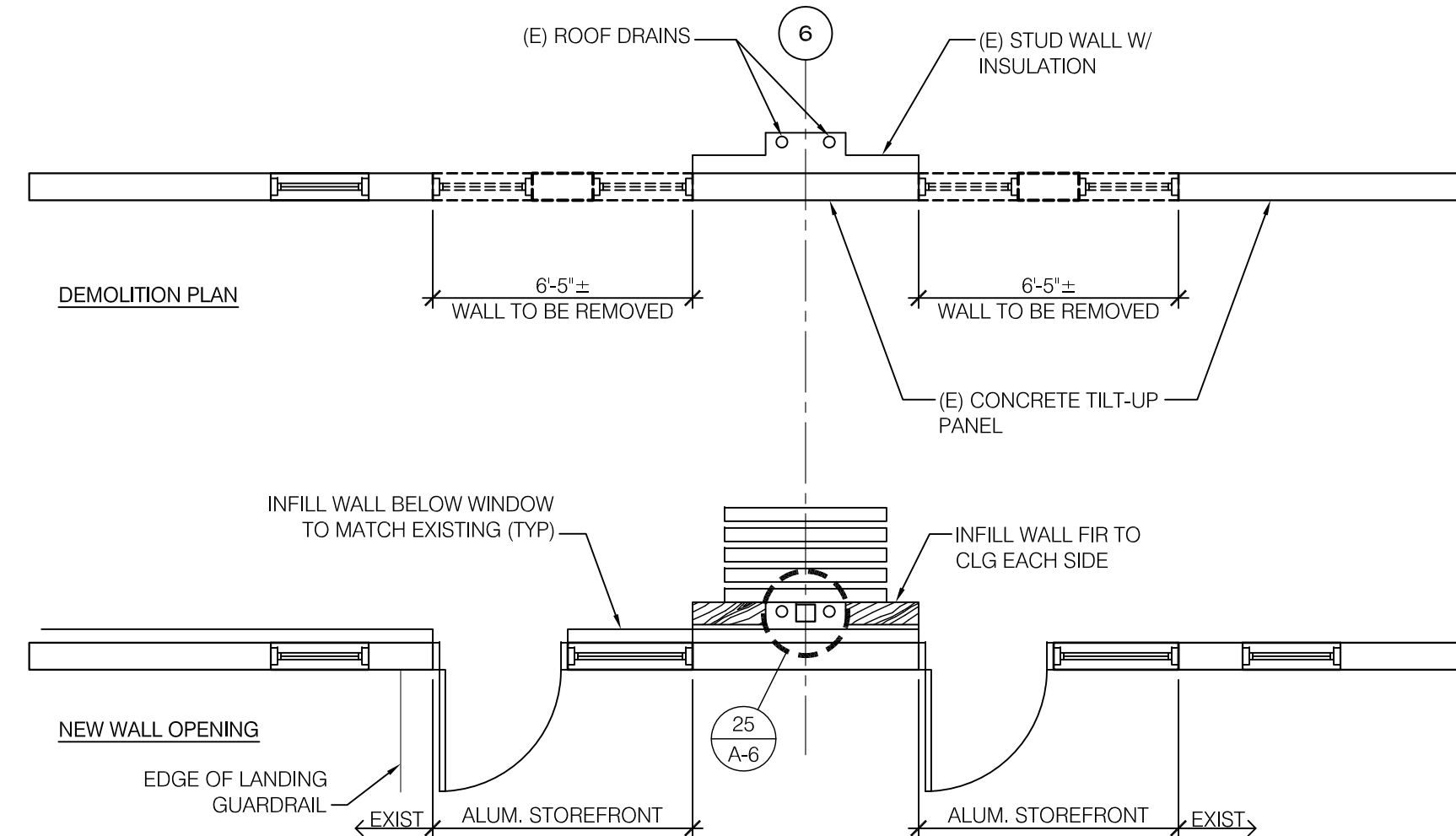
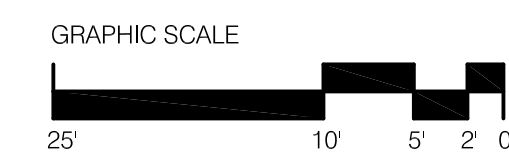
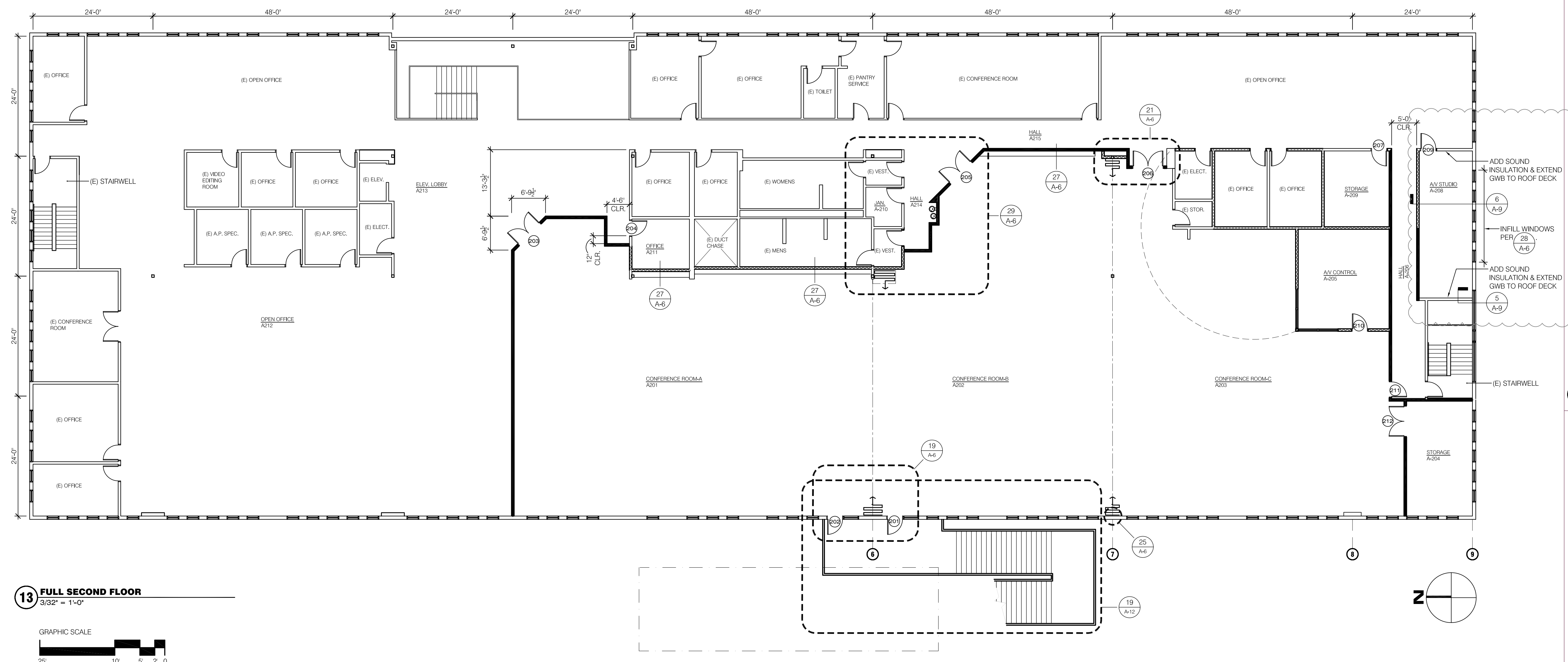
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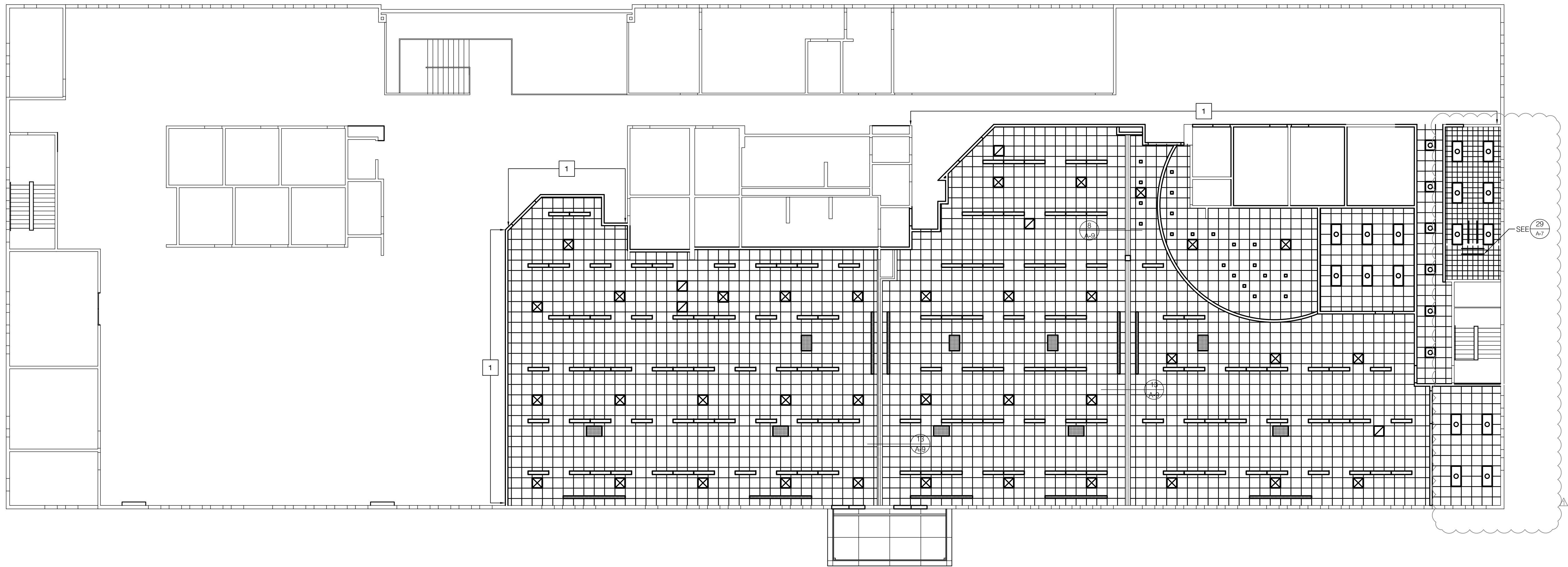
DATE:

SHEET TITLE

SECOND FLOOR
DEMOLITION PLAN

A-5





- CEILING LEGEND:**
- 2X4 T-GRID WITH ACOUSTIC LAY-IN TILES (2X2 APPEARS).
 - 2X2 T-GRID WITH WASHABLE ACOUSTIC LAY-IN PANELS.
 - 12"X12" ACOUSTIC GLUE UP TILES ON SUSPENDED 5/8" GWB.
 - HVAC DIFFUSER & GRILLES.
 - RECESSED NARROW LIGHT FIXTURES IN T-GRID.
 - LIGHT FIXTURES IN T-GRID.
 - SURFACE MOUNTED LIGHT FIXTURES.
 - RETRACTABLE SCREEN SEE 27 A-7
 - RETRACTABLE PROJECTOR SEE 25 A-7

CEILING KEY NOTES:

1. REPAIR EXISTING CEILING AFTER INSTALLATION.

GENERAL NOTE:

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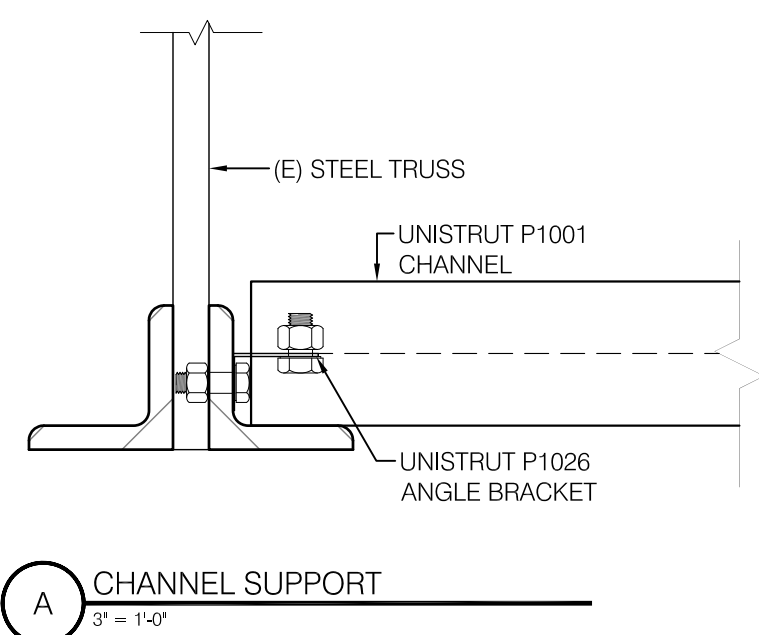
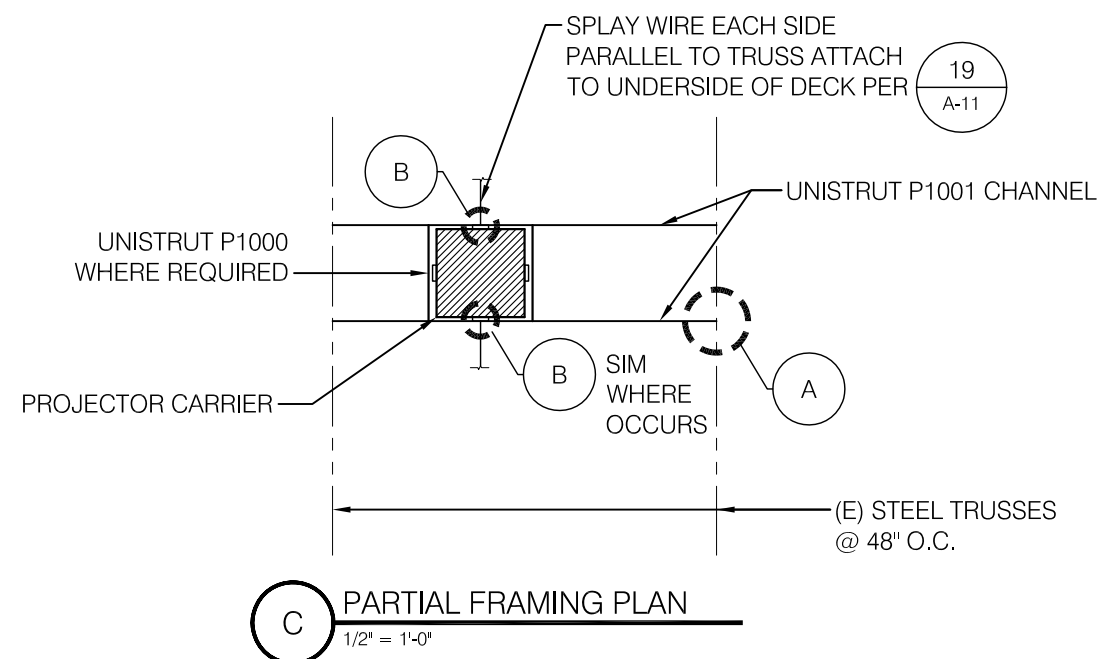


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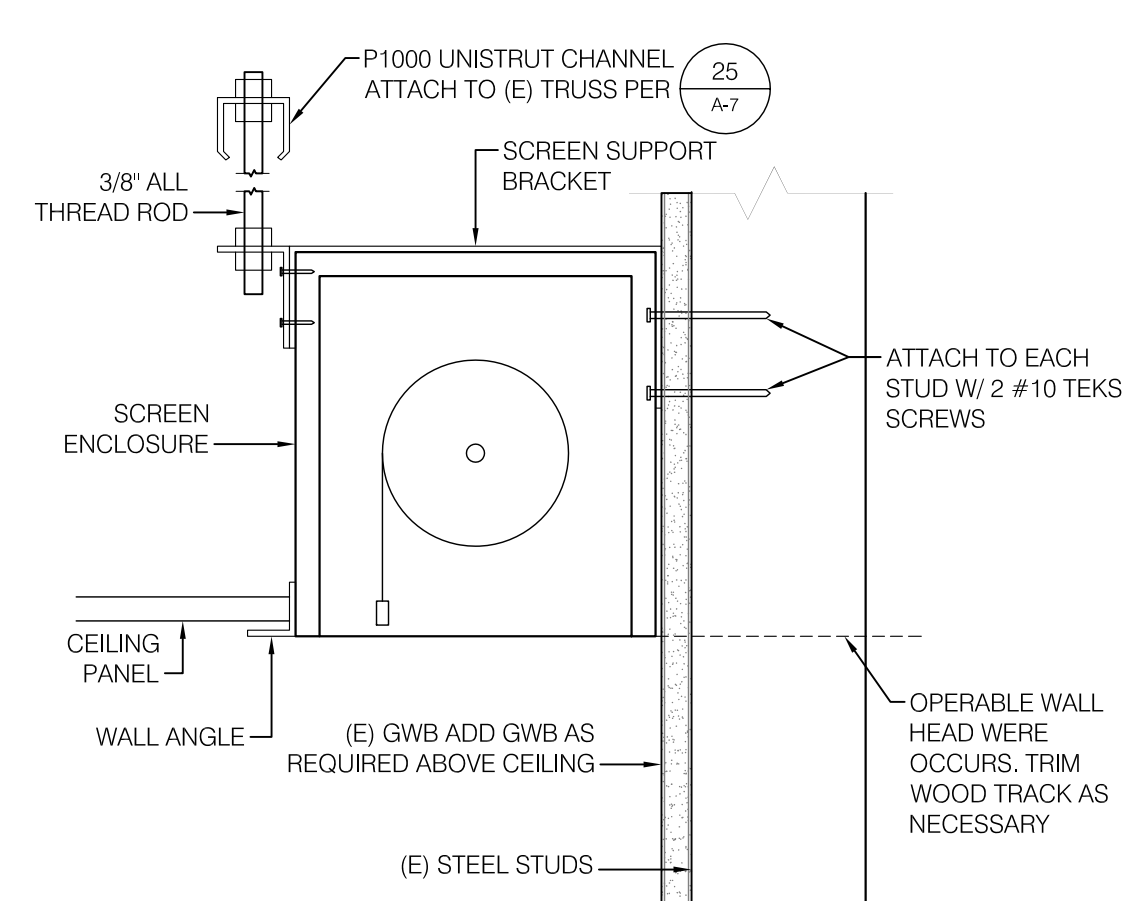
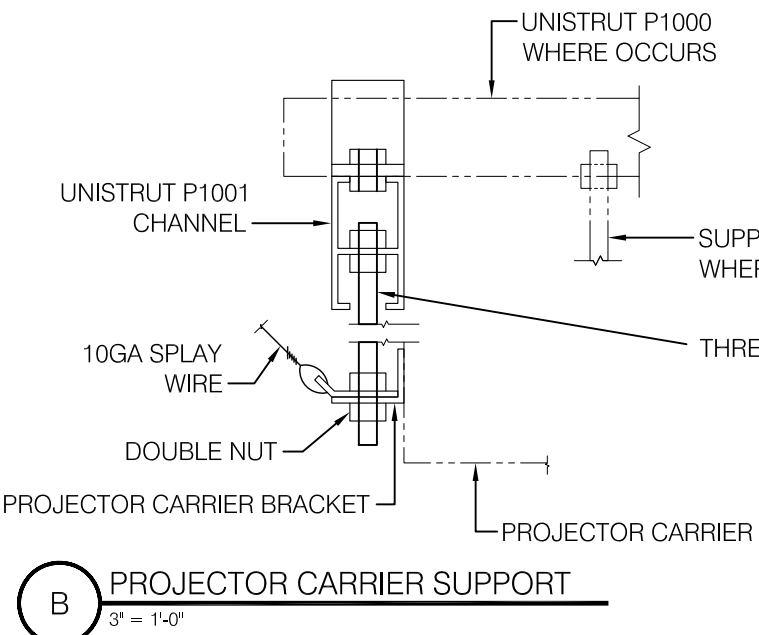
PROFESSIONAL DEVELOPMENT CENTER AND KITCHEN

SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

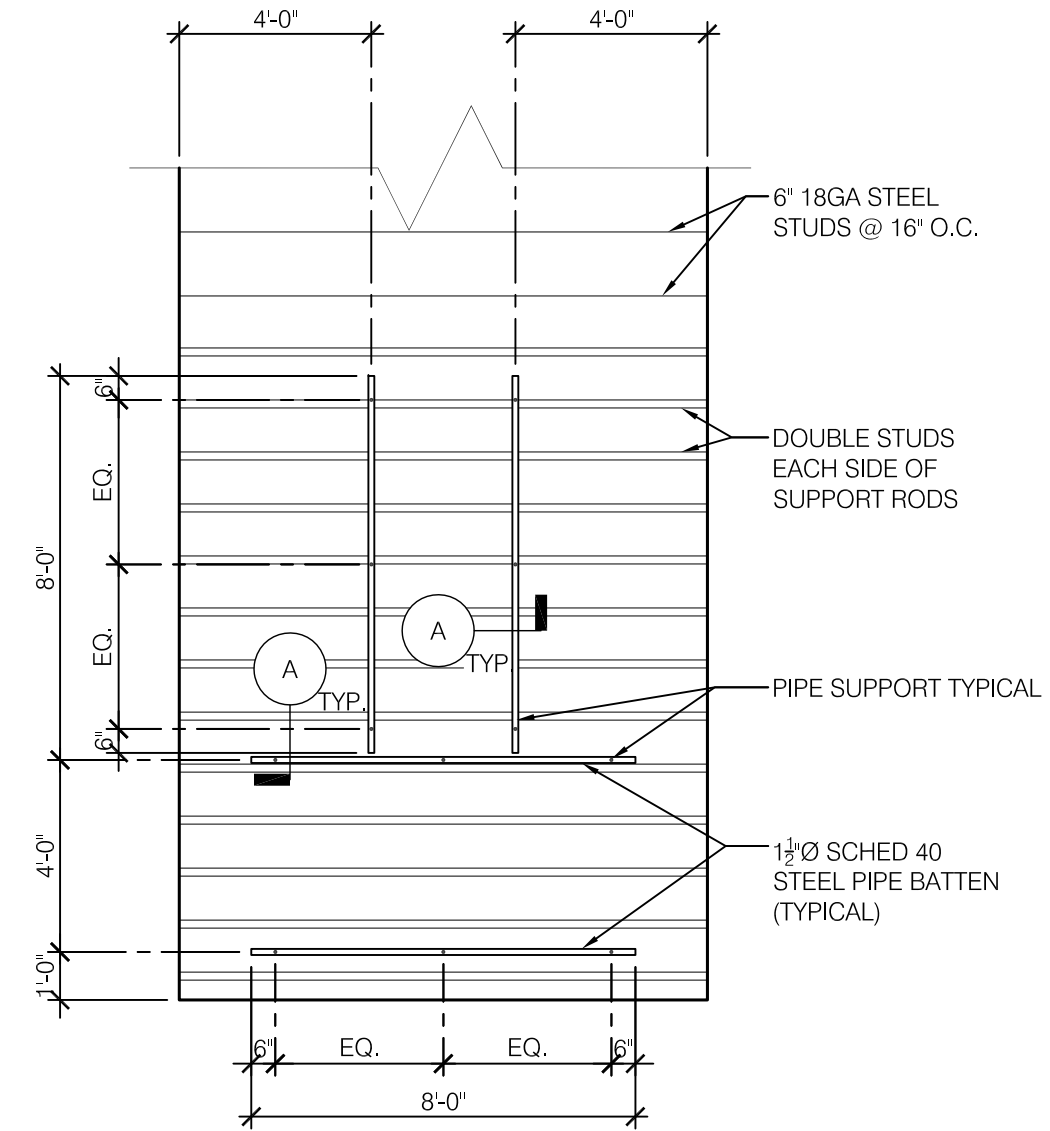
13 LEVEL TWO REFLECTED CEILING PLAN
3/32" = 1'-0"



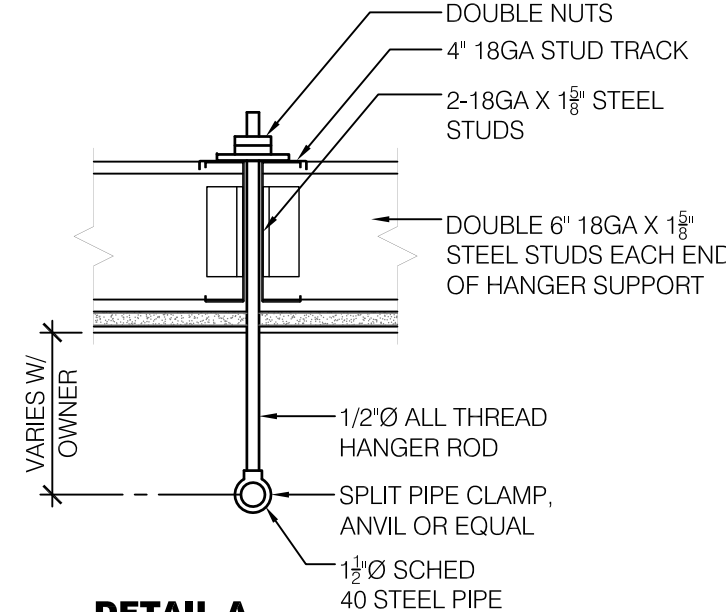
25 RECESSED PROJECTOR SUPPORT
SCALE AS NOTED



27 PROJECTION SCREEN SUPPORT
3" = 1'-0"



29 PIPE BATTENS
SCALE AS NOTED



DETAIL A
1 1/2" = 1'-0"

USA STAMP

12/24/15 ADDENDUM #1

MARK DATE DESCRIPTION

PROJECT NO: 10962

CHKD BY:

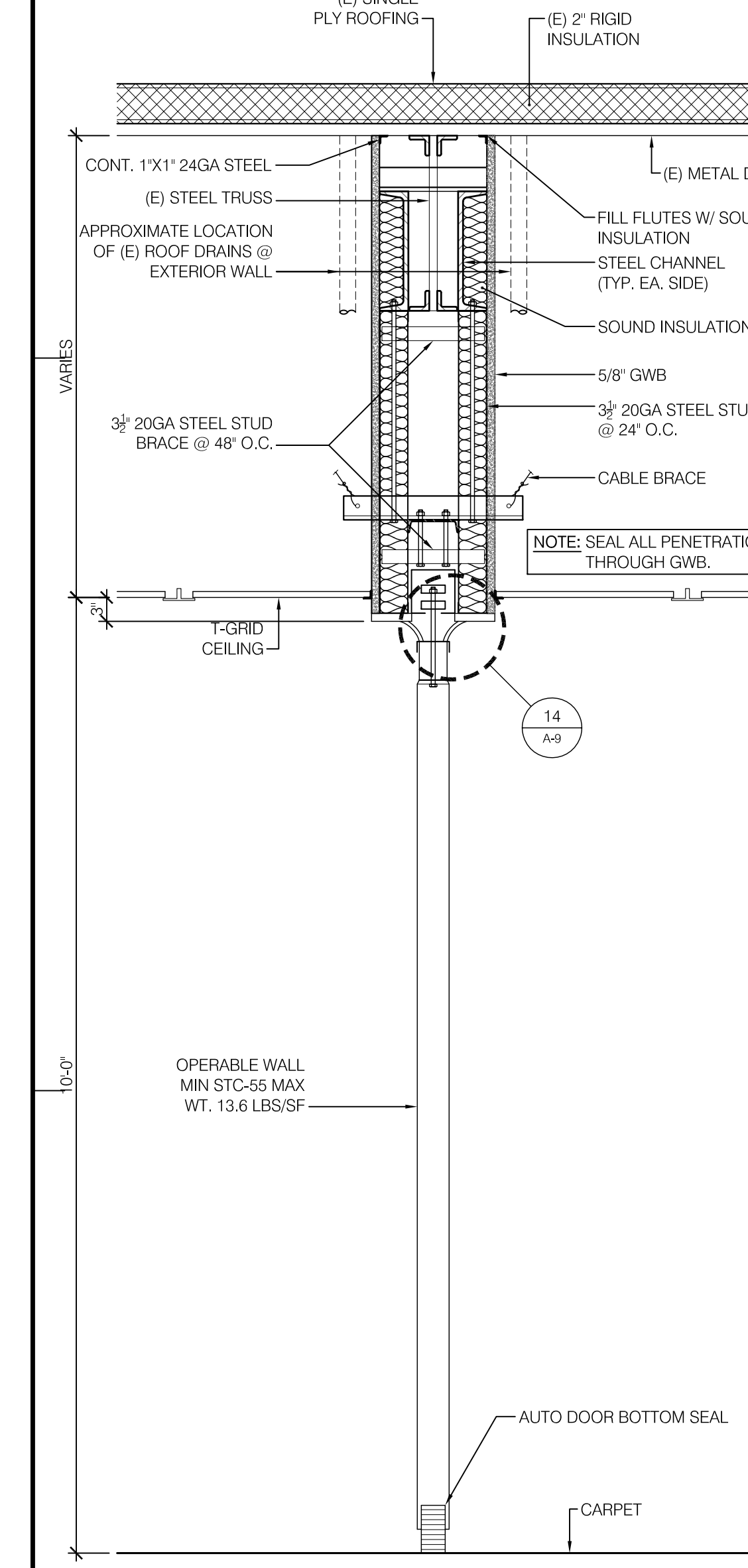
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SHEET TITLE

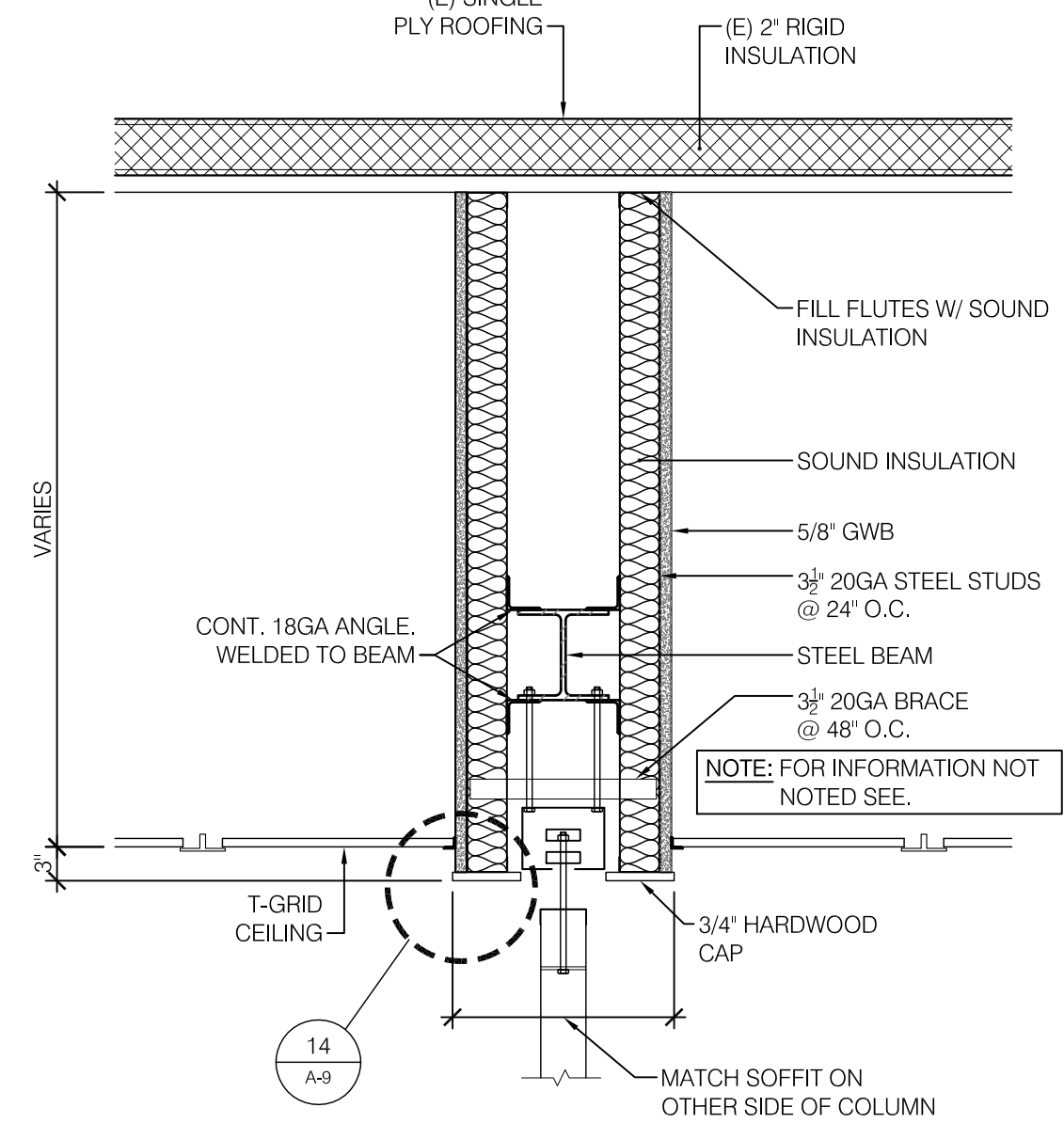
SECOND FLOOR
REFLECTED CEILING
PLAN

A-7

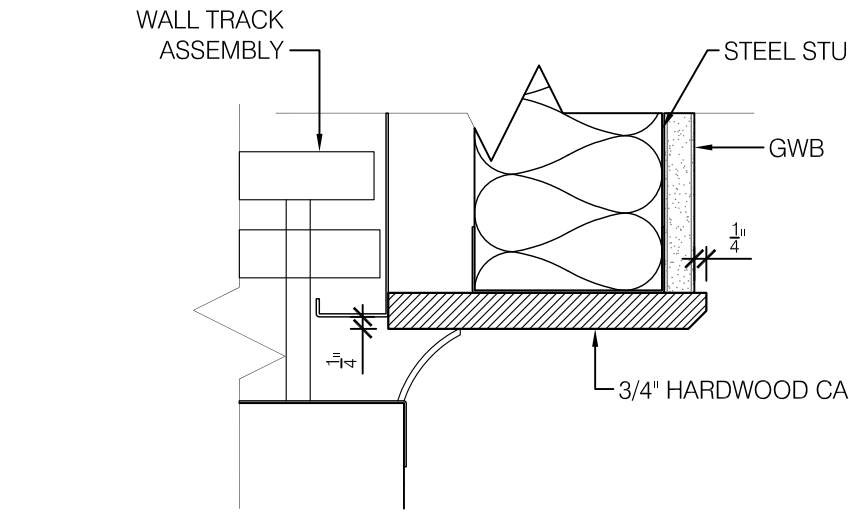
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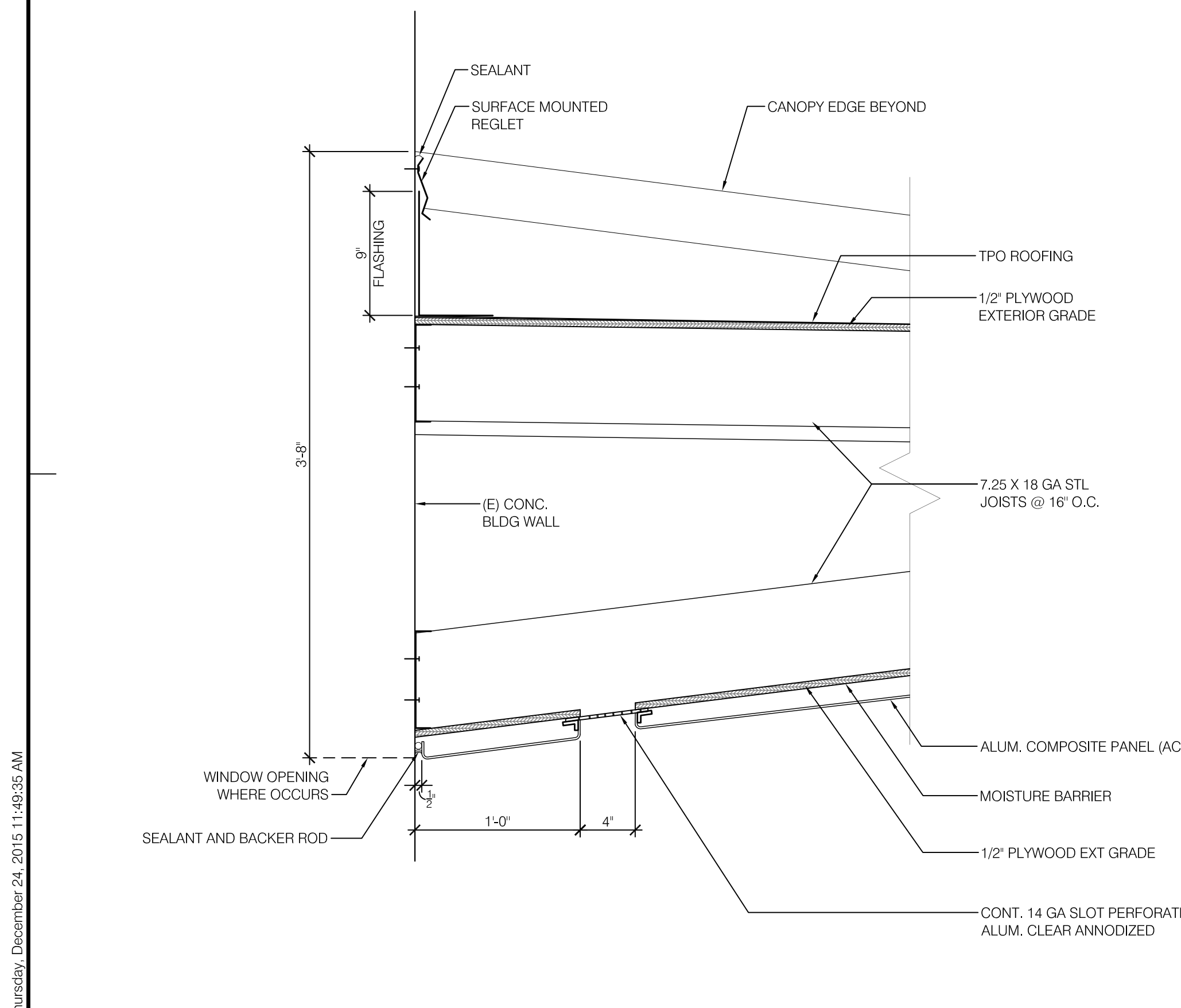
13 SECTION @ OPERABLE WALL
3/4" = 1'-0"



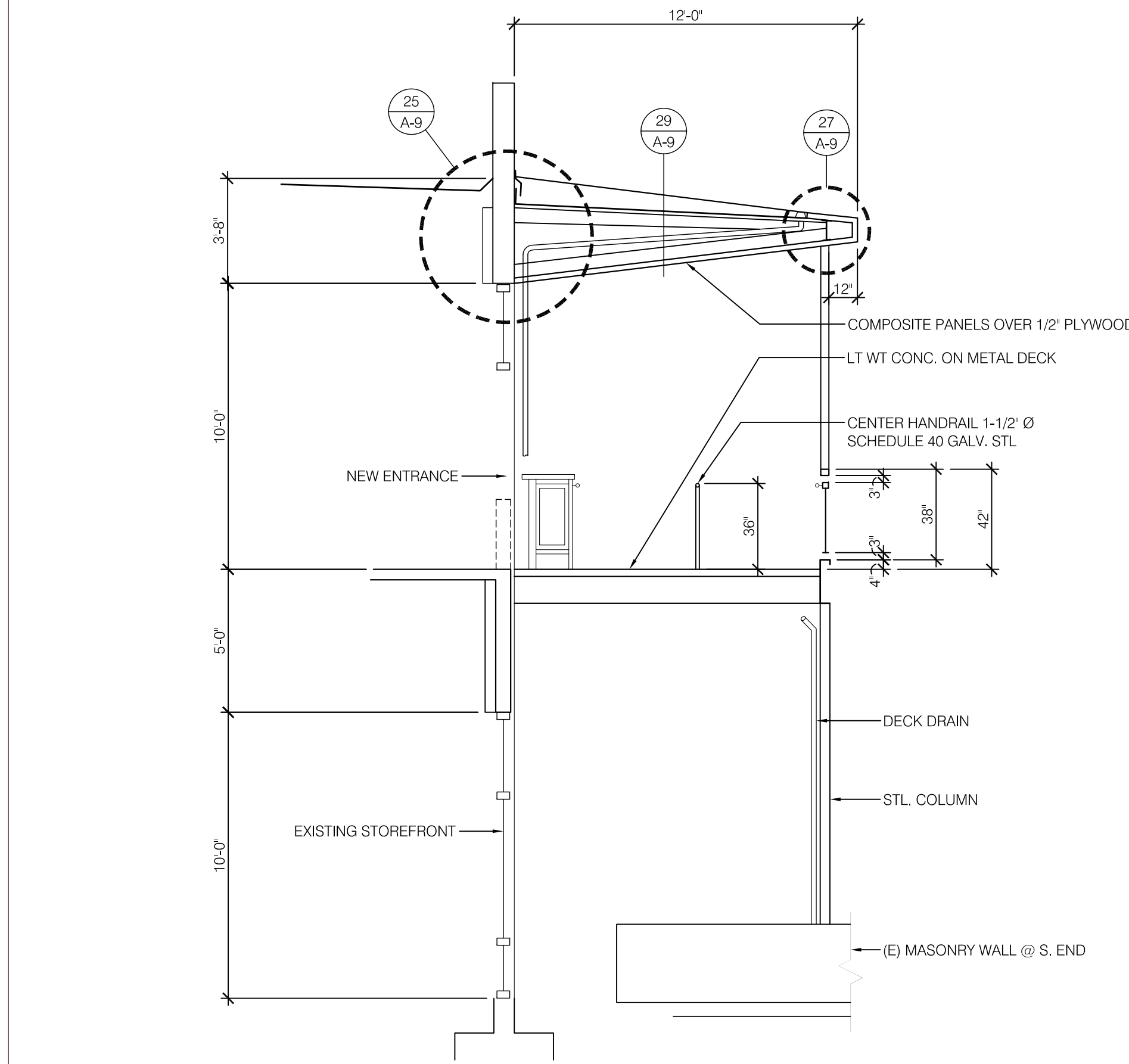
8 SECTION @ OPERABLE WALL (2)
3/4" = 1'-0"



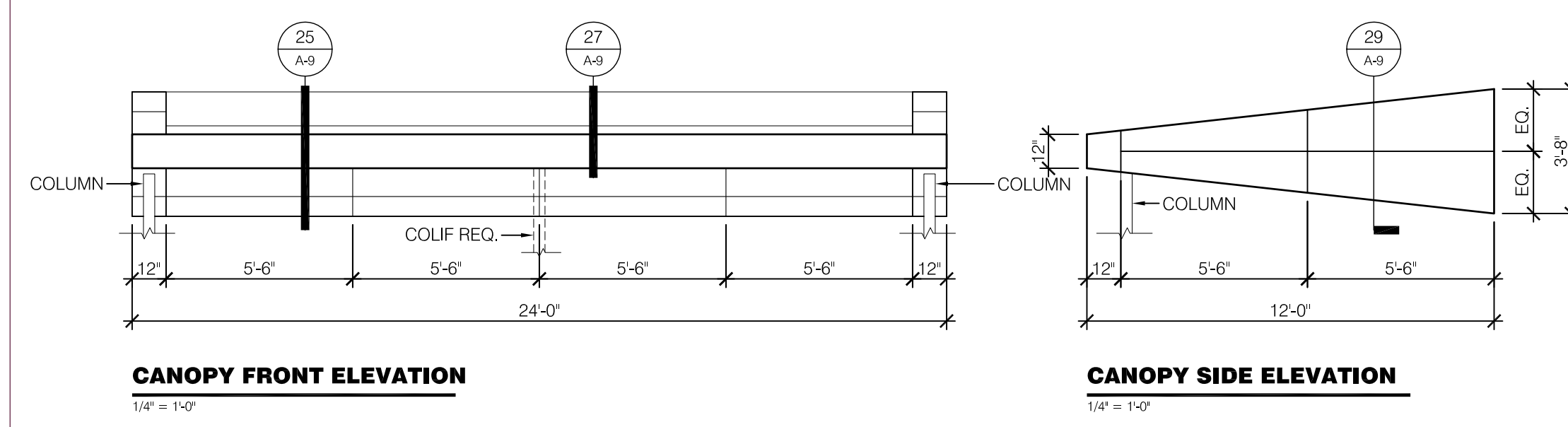
14 TRACK DETAIL
3" = 1'-0"



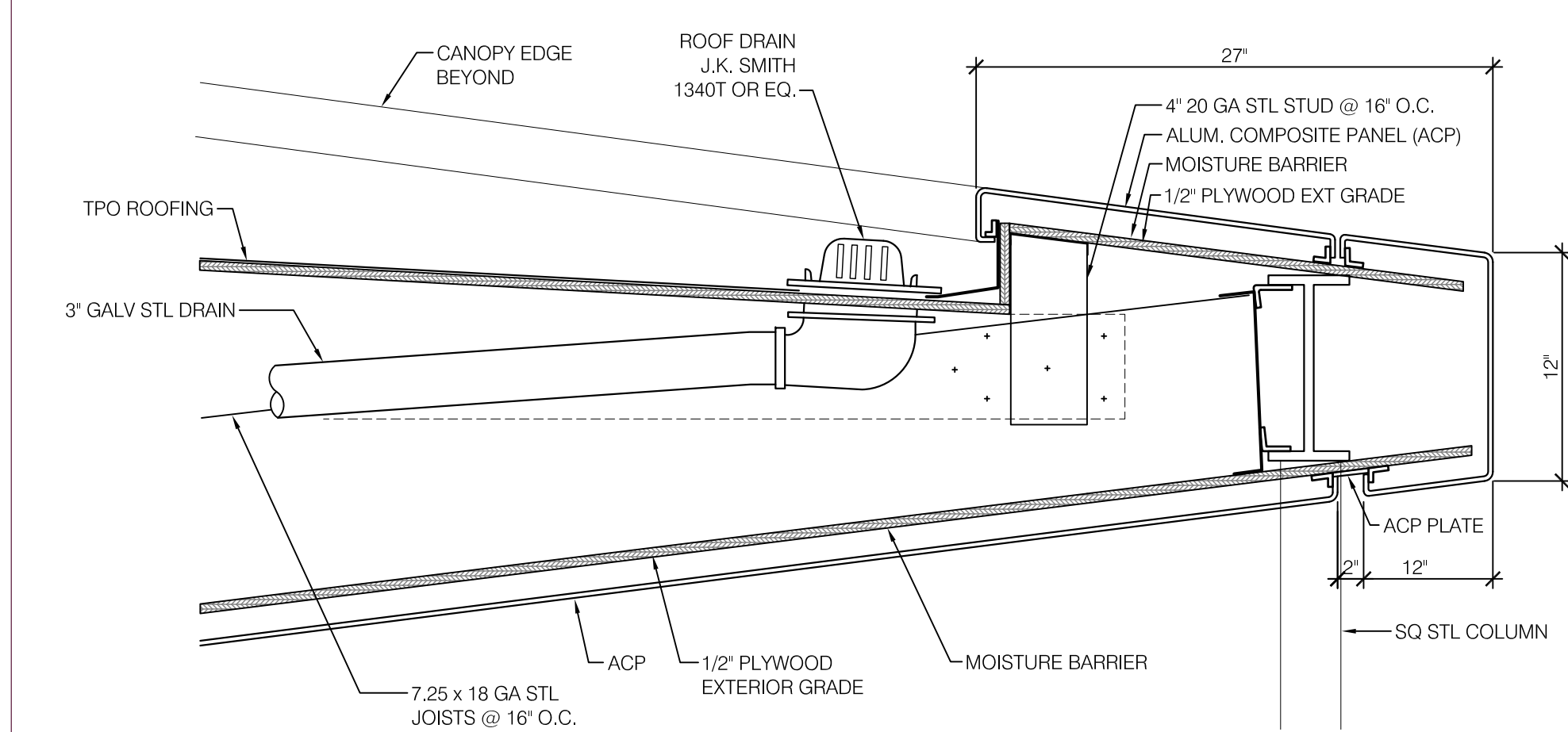
25 CANOPY @ WALL
1 1/2" = 1'-0"



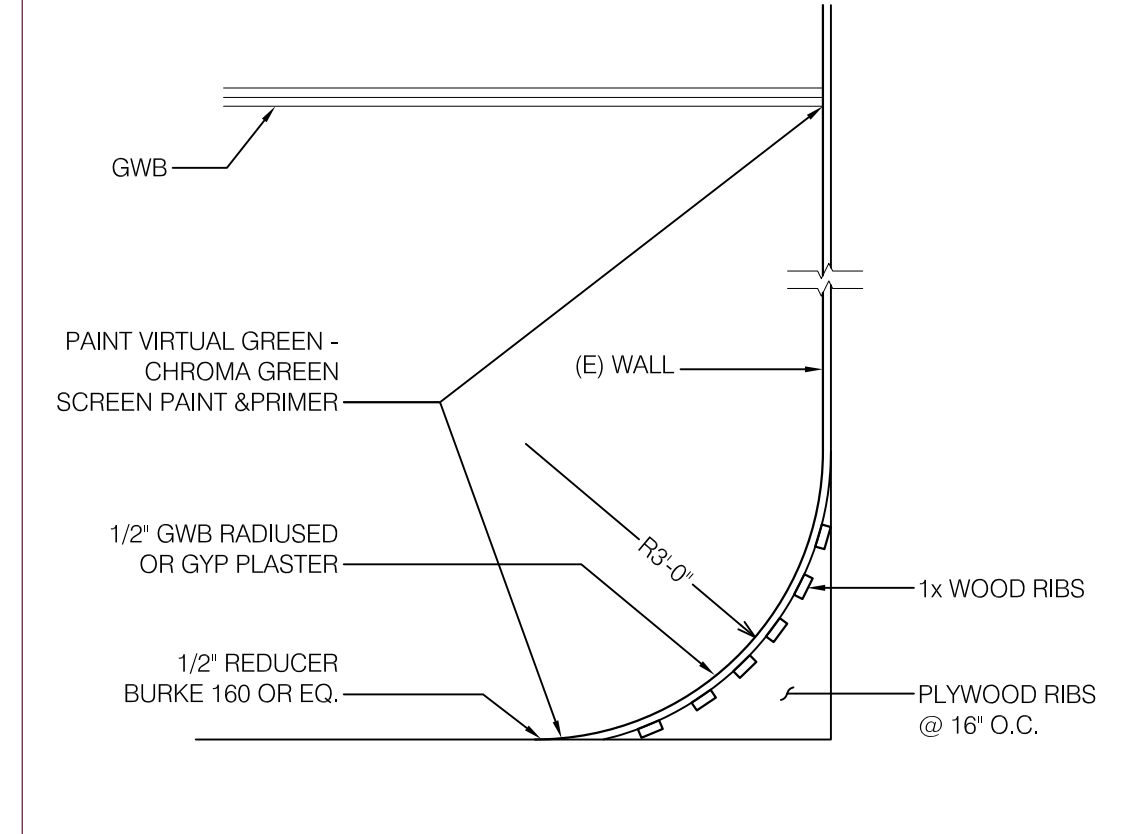
9 BLDG SECTION @ STAIR AND CANOPY
1/4" = 1'-0"



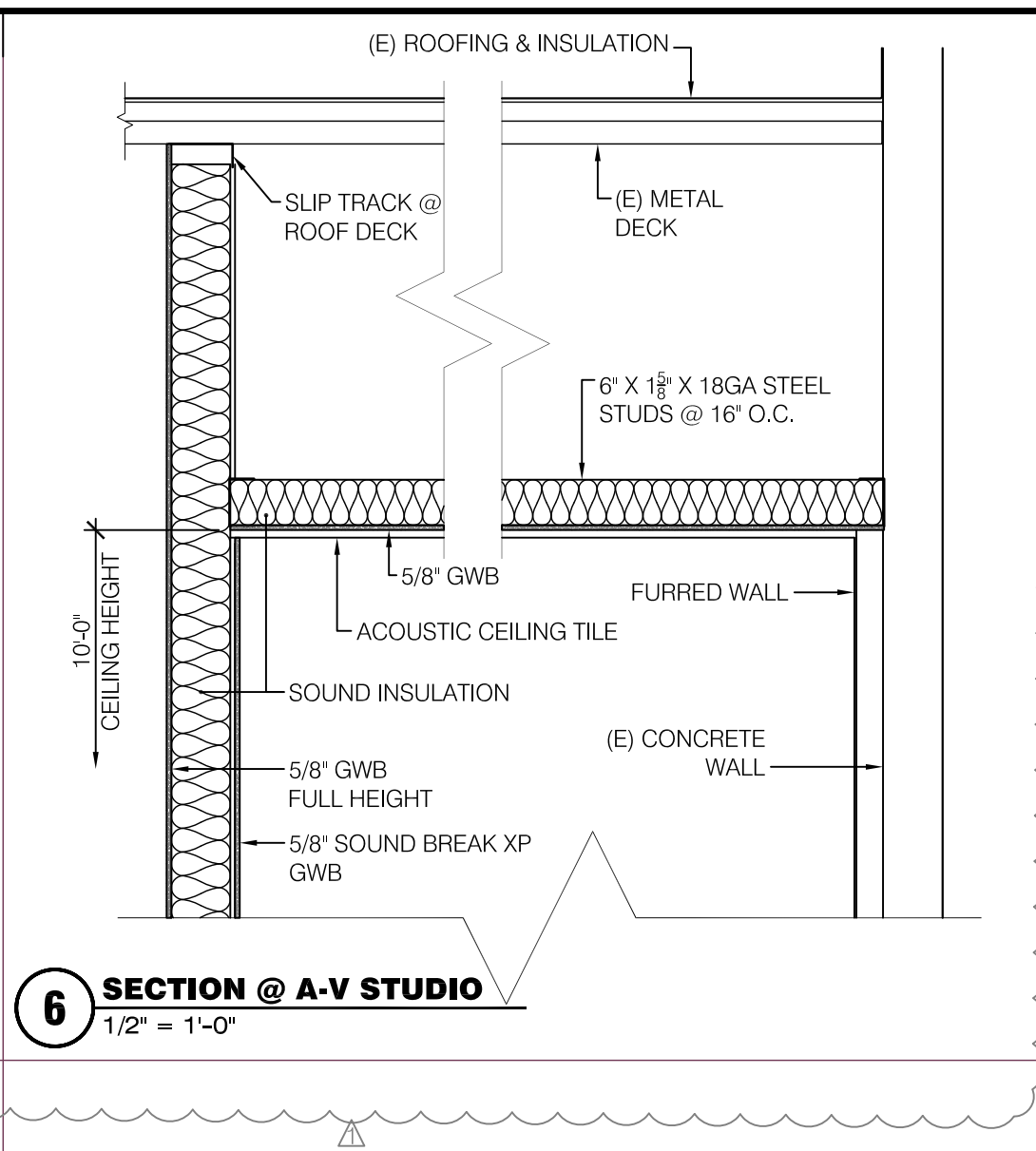
21 CANOPY ELEVATIONS
1/4" = 1'-0"



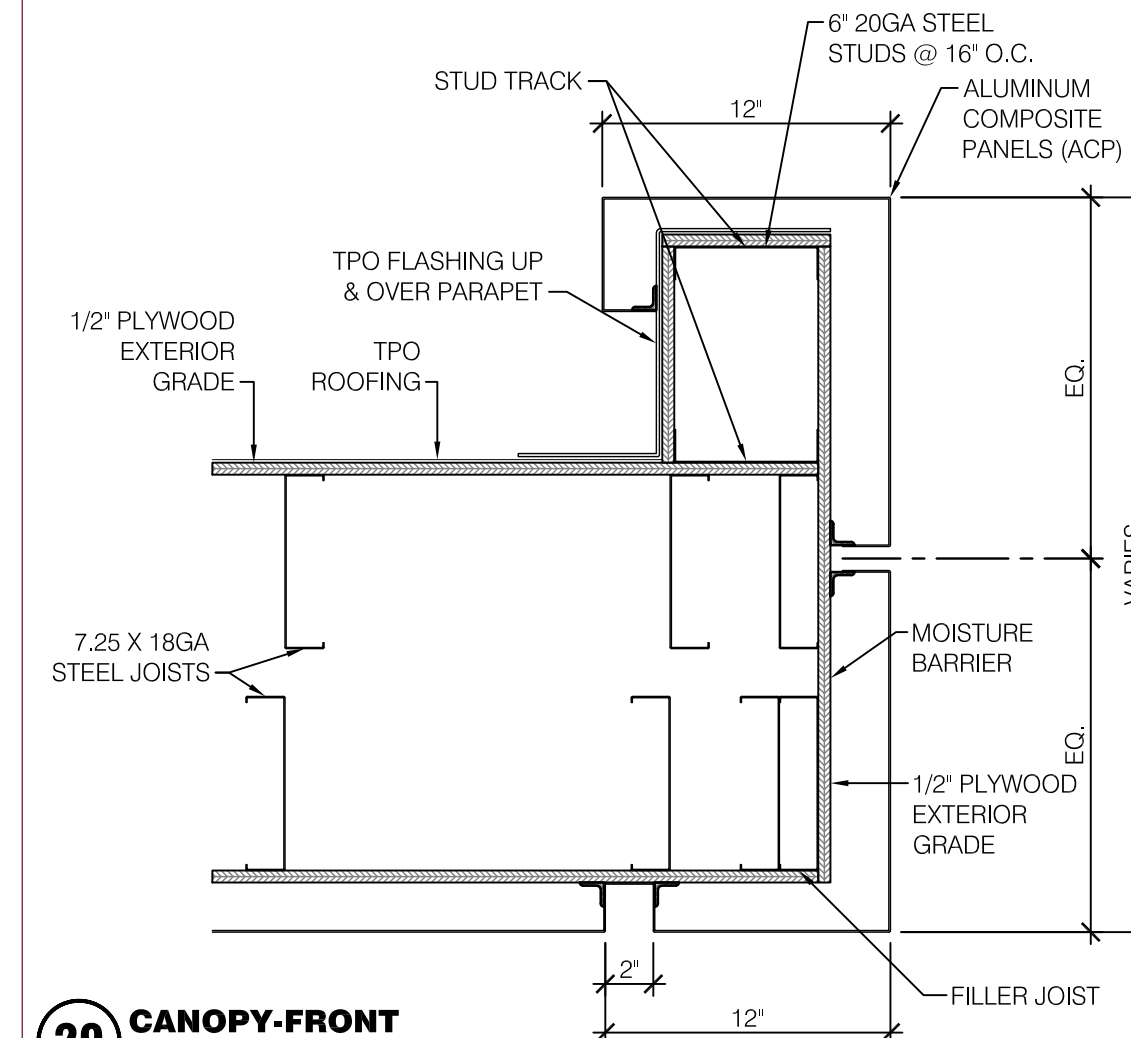
27 CANOPY-FRONT
1 1/2" = 1'-0"



5 CYCLORAMA
1/2" = 1'-0"



6 SECTION @ A-V STUDIO
1/2" = 1'-0"



29 CANOPY-FRONT
1 1/2" = 1'-0"



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SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

OSA STAMP

12/24/15 ADDENDUM #1

MARK DATE DESCRIPTION

PROJECT NO: 10962

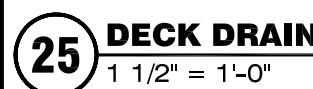
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DATE:

SHEET TITLE

SECTIONS & DETAILS

A-9



GENERAL NOTES

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH 2013 CPC/CMC/CBC ALL LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
2. ARCHITECTURAL AND STRUCTURAL PLANS ARE CONSIDERED A PART OF THE DESIGN DRAWINGS AND ARE TO BE USED TO DEFINE DETAIL CONFIGURATIONS INCLUDING, BUT NOT LIMITED TO RELATIVE LOCATION OF MEMBERS, ELEVATION, LOCATION OF ALL OPENINGS, ETC.
3. BEFORE STARTING ANY WORK, VERIFY THE ADEQUACY, LOCATION, SIZE, AND AVAILABILITY OF ALL UTILITIES CONCERNED, INCLUDING SEWER INVERT ELEVATIONS, AND WATER PRESSURE.
4. ALL VENTS THRU ROOF AND ROOF DECKS SHALL BE MINIMUM OF THREE FEET VERTICALLY OR TEN FEET HORIZONTALLY FROM ANY FRESH AIR INTAKES.
5. CLEANOUTS SHALL BE REQUIRED AS INDICATED ON THE PLANS AND INSTALLED PER SECTION 707.0 AND 719.0 OF THE PLUMBING CODE. CLEANOUTS FOR HORIZONTAL BUILDING STORM DRAINS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 719 OF THE CALIFORNIA PLUMBING CODE.
6. HANDICAPPED USE PLUMBING FIXTURES SHALL BE MOUNTED AT REQUIRED HEIGHTS AND WITH ALL RELATED ACCESSORIES AS REQUIRED BY THE ADMINISTRATIVE AUTHORITIES.
7. EXPOSED SUPPLY PIPES, TRAP AND TRAP ARM AT HANDICAPPED LAVATORIES SHALL BE INSULATED.
8. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH "GUIDELINES FOR RESTRAINTS OF MECHANICAL SYSTEMS, PLUMBING PIPING SYSTEMS" PUBLISHED BY SMACNA.
9. ALL DOMESTIC WATER FIXTURES, PIPING VALVES, ETC. FOR HUMAN CONSUMPTION SHALL COMPLY WITH CALIFORNIA HEALTH AND SAFETY CODE 116875
10. NEW OR REPAIRED POTABLE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE PLUMBING CODE.
11. INSULATE ALL HOT WATER, HOT WATER RETURN AND CONDENSATE DRAIN PIPING.
12. THE "ENGINEER OF RECORD" IS RESPONSIBLE FOR THE SYSTEM DESIGN AND THE INTERPRETATION OF THAT DESIGN FOR THIS PROJECT.
13. WATER CLOSET BOWLS FOR PUBLIC USE SHALL BE OF THE ELONGATED TYPE.
14. PIPES PASSING THRU FIRE RATED WALLS OR FLOORS SHALL BE SEALED ALL AROUND WITH FIRE RATED SEALANT.
15. PROVIDE FLASHING AND/OR COUNTER FLASHING OF ALL EXTERIOR PENETRATIONS.
16. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS RECOMMENDATIONS. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
17. ALL APPLIANCE AND PLUMBING VENTS AND THE DISCHARGE OUTLET OF EXHAUST FANS SHALL BE AT LEAST 10' IN A HORIZONTAL DIRECTION, OR 3' ABOVE THE OUTSIDE AIR INTAKES FOR HVAC UNITS.
18. ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTEN IN PLACE PER BUILDING CODE REQUIREMENTS OR APPLICABLE MANUFACTURER INSTALLATION REQUIREMENTS.
19. ALL EXPOSED GAS PIPING SHALL BE PROTECTED AGAINST CORROSION BY COATING OR WRAPPING WITH AN INERT MATERIAL APPROVED FOR SUCH APPLICATIONS.
20. MANUFACTURED ROOF DRAINS AND OVERFLOW (FIXTURES) SHALL BE IAPMO LISTED.
21. ROOF DRAIN AND OVERFLOW PIPING WITHIN THE BUILDING SHALL UTILIZE APPROVED DRAINAGE FITTINGS.
22. OVERFLOW DRAINS SHALL DISCHARGE ABOVE GRADE IN A LOCATION OBSERVABLE BY THE BUILDING OCCUPANTS, OR MAINTENANCE PERSONNEL, INDEPENDENT FROM THE PRIMARY ROOF DRAIN. EXCEPTION: A COMBINED SYSTEM IN COMPLIANCE WITH SECTION 1101.11.2.2.2 OF THE CALIFORNIA PLUMBING CODE.
23. ROOF DRAINAGE SHALL NOT BE DISCHARGED TO THE SANITARY SEWER SYSTEM.
24. OVERFLOW DRAINS HAVING THE SAME SIZE AS THE ROOF DRAINS SHALL BE INSTALLED WITH INLET FLOW LINE LOCATED 2" ABOVE THE LOW POINT OF THE ROOF.
25. ALL COMBUSTIBLE PIPING SHALL BE INSTALLED PER CHAPTER 15 OF THE CALIFORNIA PLUMBING CODE FOR "FIRESTOP PROTECTION".

PLUMBING FIXTURE SCHEDULE

FIXTURE NUMBER	FIXTURE	W	V	T	CW	HW	REMARKS
FD-1	FLOOR DRAIN	2"	1-1/2"	2"	1/2"	-	WITH TRAP PRIMER CONNECTION. J.R. SMITH #2005-SERIES
FS-1	FLOOR SINK	2"	1-1/2"	2"	-	-	WITH TRAP PRIMER CONNECTION. J.R. SMITH #3140-SERIES
HS-1	HAND SINK	2"	1-1/2"	2"	1/2"	1/2"	REFER TO KITCHEN DRAWINGS FOR MANUFACTURER. PROVIDE THERMOSTATIC MIXING VALVE - SET TO 105°F.
KS-1	3 COMP SINK	2"	1-1/2"	2"	3/4"	3/4"	REFER TO KITCHEN DRAWINGS FOR MANUFACTURER
PS-1	PREP SINK	2"	-	-	3/4"	3/4"	REFER TO KITCHEN DRAWINGS FOR MANUFACTURER
HB-1	HOSE BIBB	-	-	-	3/4"	-	FREESTANDING/WALL MOUNTED. ACORN #8120 WITH KEY OPERATED AND VACUUM BREAKER

PLUMBING EQUIPMENT SCHEDULE

EQUIP. NO.	EQUIPMENT	GPM	HEAD FT	ELEC.			SIZE	MFTR	MODEL	REMARKS
				HP	V	ø				
GI - 1	GREASE INTERCEPTOR	-	-	-	-	-	-	JENSEN	JP750G	INSTALL GREASE INTERCEPTOR PER MANUFACTURER'S RECOMMENDATIONS.
SB - 1	SAMPLE BOX	-	-	-	-	-	-	JENSEN	EV200	INSTALL SAMPLE BOX PER MANUFACTURER'S RECOMMENDATIONS.
WH - 1	WATER HEATER	21		(24 A)	208	1	80 GAL	RHEEM PRESTIGE	PROPH80 T2 RH245	INSTALL PER MANUFACTURER'S RECOMMENDATIONS
RPBFP-1	REDUCED PRESSURE BACKFLOW PREVENTER	-	-	-	-	-	1/2"	WATTS	SS009	STAINLESS STEEL REDUCED PRESSURE BACKFLOW PREVENTER. INSTALL PER MANF. RECOMMENDATIONS.
CP - 1	CONDENSATE PUMP	-	-	1/40	115	-	1/4"	LITTLE GIANT	551020	INSTALL CONDENSATE PUMP PER MANUFACTURER'S RECOMMENDATIONS.
CHP - 1	CIRCULATION PUMP	46	-	1/25	115	-	5"	GRUNDFOS	UP15-10B5	INSTALL CIRCULATION PUMP PER MANUFACTURER'S RECOMMENDATIONS.

PLUMBING PIPE AND FITTING SCHEDULE

TYPE	SIZE	MATERIAL	FITTINGS	LOCATION
CONDENSATE DRAIN	ALL SIZES	TYPE "M" HARD COPPER	WROUGHT COPPER SOLDERED	ABOVE GRADE AND BELOW GRADE
DOMESTIC AND INDUSTRIAL COLD WATER	1/2" TO 3"	TYPE "L" HARD COPPER	WROUGHT COPPER SILVER BRAZED	BELOW GRADE
	1/2" TO 4"	TYPE "L" HARD COPPER	WROUGHT COPPER SOLDERED	ABOVE GRADE
GAS	ALL SIZES	SCHEDULE 40 BLACK STEEL	MALLEABLE IRON	ABOVE GRADE
	ALL SIZES	PE	PE REFER TO SPECS	BELOW GRADE

COLD WATER CALCULATION

PIPE LOSSES ARE BASED ON COPPER PIPE AND FITTINGS, MAXIMUM CW DEMAND 80 GPM 149 F.U. AT 110 HIGH AND 102 LOW PSI. THE TOTAL DEVELOPED LENGTH WAS MEASURED TO THE MOST REMOTE WATER FIXTURE.

LOSS THRU 2" WATER METER AT 80 GPM	14 PSI
LOSS THRU 2-1/2" BACKFLOW PREVENTOR WILKINS	12 PSI
PRESSURE REQUIRED AT FIXTURE	30 PSI
STATIC LOSS BUILDING HEIGHT: 6' X 0.434	3 PSI
TOTAL LOSSES	59 PSI

AVAILABLE PRESSURE FOR FRICTION LOSS 22 PSI

PRESSURE DROP PER $\frac{100'}{(225' \text{ TDL} \times 1.2)} \times \frac{28 \times 100'}{300'}$ 9.8 PSI

SYSTEM SIZING IS BASED ON 6 PSI/100' AND MAXIMUM VELOCITY 5 FEET PER SECOND.

PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	
FLUSH TANK CW FIXTURE UNITS	2	8	20	42	83	254	455	
FLUSH VALVE CW FIXTURE UNITS	-	-	-	8	26	132	329	
HOT WATER FIXTURE UNITS	2	8	16	28	46	119	245	

PLUMBING LEGEND

SYMBOL	ABBR.	DESCRIPTION
	W	WASTE PIPING ABOVE FINISHED GRADE
	W	WASTE PIPING BELOW FINISHED GRADE
	V	VENT PIPING ABOVE FINISHED GRADE
	V	VENT PIPING BELOW FINISHED GRADE
	CW	COLD WATER PIPING ABOVE/BELOW FINISHED GRADE
	AFS	AUTOMATIC FIRE SPRINKLER PIPING BELOW FINISHED GRADE
	HW	HOT WATER PIPING ABOVE FINISHED GRADE
	CD	CONDENSATE PIPING ABOVE FINISHED GRADE
	PCD	PUMP CONDENSATE PIPING ABOVE FINISHED GRADE
	CD	CONDENSATE PIPING BELOW FINISHED GRADE
	G	GAS PIPING BELOW/ABOVE FINISHED GRADE
	(N)GAS	NEW GAS PIPING BELOW/ABOVE FINISHED GRADE
	(E)GAS	EXISTING GAS PIPING BELOW/ABOVE FINISHED GRADE
	ECW	EXISTING COLD WATER PIPING BELOW FINISHED GRADE
	ECW	EXISTING COLD WATER PIPING ABOVE FINISHED GRADE
	ES	EXISTING SEWER PIPING BELOW FINISHED GRADE
		EXISTING PIPING TO BE REMOVED
	-	DROP IN PIPE
	-	RISE IN PIPE
	-	DIRECTION OF FLOW
	HB	HOSE BIBB
	WCO	WALL CLEANOUT
	-	FLOOR CLEANOUT TO GRADE
	U	UNION
	GV	GATE SHUT-OFF VALVE
	FD	FLOOR DRAIN
	OS & Y	OUTSIDE SCREW AND YOKE VALVE
	BV	BALL VALVE
	CV	CHECK VALVE
	-	GAS SHUT-OFF COCK
	POC	POINT OF CONNECTION
	POD	POINT OF DEMOLITION
	ABV	ABOVE
	AP	ACCESS PANEL
	BEL	BELOW
	CI	CAST IRON
	CLG	CEILING
	CO	CLEAN-OUT
	CONN.	CONNECT/CONNECTION
	DWG'S	DRAWINGS
	FF	FINISHED FLOOR
	FLR	FLOOR
	FU	FIXTURE UNIT
	GPM	GALLONS PER MINUTE
	I.E.	INVERT ELEVATION
	NTS	NOT TO SCALE
	SOV	SHUT-OFF VALVE
	TDL	TOTAL DEVELOPED LENGTH
	TYP	TYPICAL

SHEET INDEX

- NO.

DWG #

SHEET TITLE
1. P-0.01 - GENERAL NOTES, LEGENDS AND SYMBOLS
2. P-0.02 - KITCHEN EQUIPMENT SCHEDULE
3. P-1.01 - FIRST FLOOR PLAN
4. P-1.02 - KITCHEN ENLARGEMENTS
5. P-2.01 - SECOND FLOOR PLAN
6. P-3.01 - PLUMBING DETAILS



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JOB# 14-159.C1.C2

PROFESSIONAL DEVELOPEMENT CENTER AND KITCHEN

SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

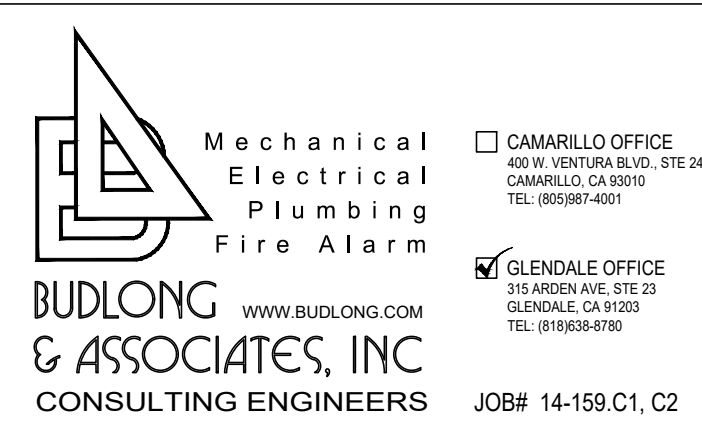
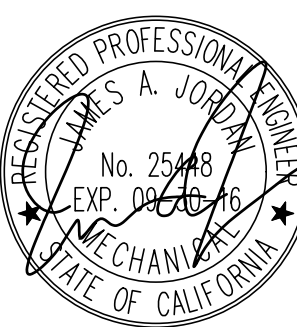
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	1/22/4/15	ADDENDUM #1
MARK	DATE	DESCRIPTION
PROJECT NO.	10962	

CHK'D BY:
DATE:

SHEET TITLE
PLUMBING
LEGENDS, SYMBOLS &
NOTES

P-0.01



PROFESSIONAL DEVELOPEMENT
CENTER AND KITCHEN

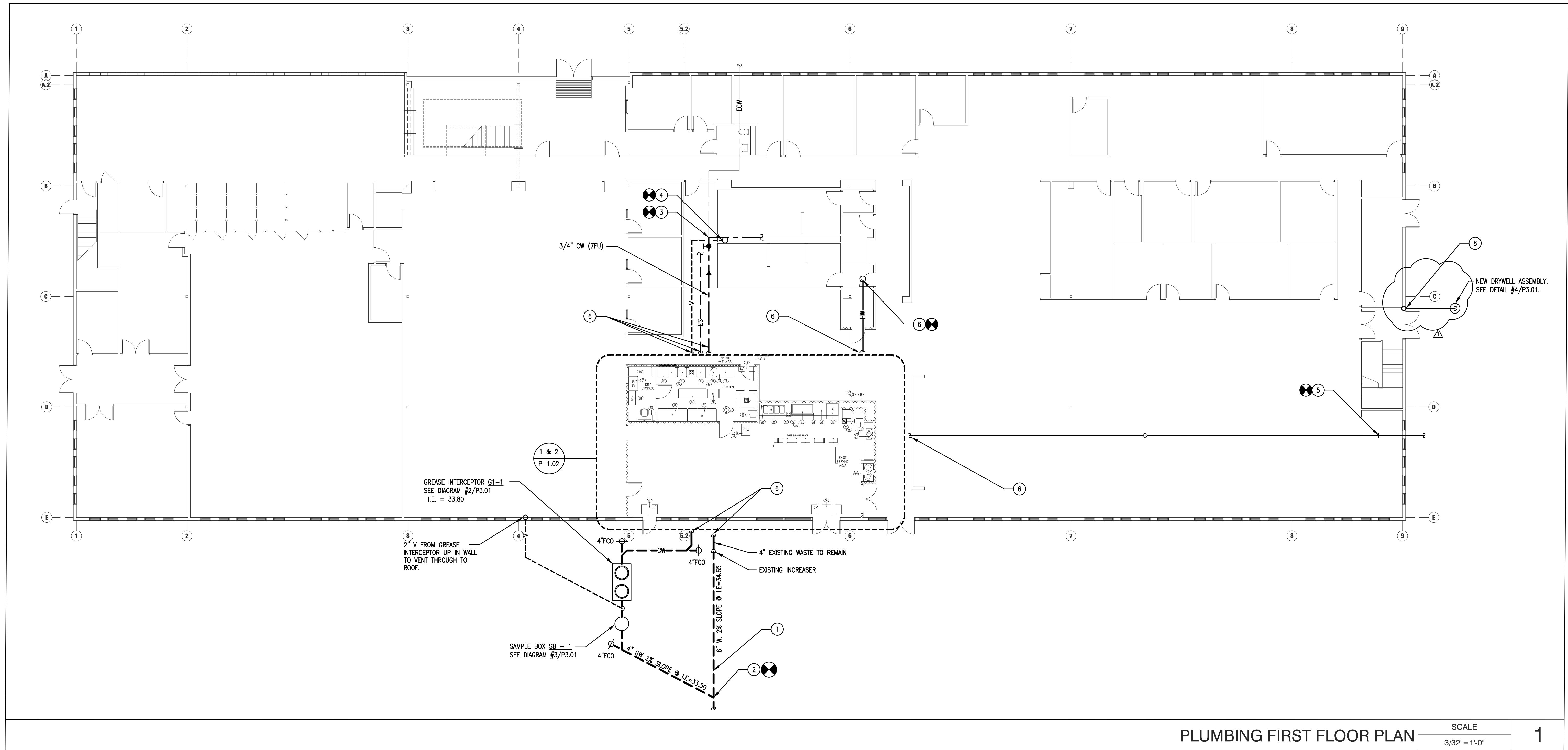
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CONSTRUCTION KEY NOTES

- 6" EXISTING WASTE TO REMAIN.
- CONNECT NEW 4" GW TO NEW 6" W. RUNNING BELOW GRADE AT I.E.=32.27.
- CONNECT NEW 3/4" CW (7FU) TO EXISTING 2" CW RUNNING IN CEILING SPACE. INSTALL SHUT-OFF VALVE.
- CONNECT NEW 2" V. (7FU) TO EXISTING 4" V. IN CEILING SPACE.
- CONNECT NEW 3/4" GAS TO EXISTING 2" GAS LINE.
- FOR CONTINUATION SEE #1 AND #2/P-1.02.
- NEW 3/4" HW. UP TO SECOND FLOOR.
- 3/4" PCD FROM SECOND FLOOR DOWN TO DRYWELL BELOW GRADE.

GENERAL NOTES

- AS-BUILT PLANS ARE NOT AVAILABLE. PRIOR TO START OF WORK CONTRACTOR SHALL VERIFY LOCATION, SIZE AND DEPTH OF EXISTING PIPING.
- PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED FOR INSTALLATION. CONTRACTOR SHALL MAKE COORDINATED SHOP DRAWINGS FOR APPROVAL PRIOR TO START OF WORK.
- ALL COLD WATER, HOT WATER AND HOT WATER RETURN PIPING ARE TO REMAIN UNLESS OTHERWISE NOTED.
- ALL EXISTING WASTE, VENT, GAS, STORM DRAIN AND CONDENSATE DRAIN TO REMAIN UNLESS OTHERWISE NOTED.
- PATCH, PAINT, TILE AND OR REPAIR WORK TO MATCH EXISTING SURROUNDINGS.
- FOR OVAL KITCHEN EQUIPMENT TAGS DETAILS SEE KITCHEN EQUIPMENT SCHEDULE P0.02.



PLUMBING FIRST FLOOR PLAN

SCALE
3/32"=1'-0"

1



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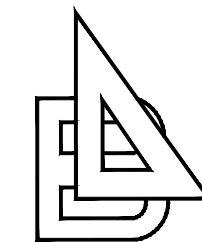
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1/22/15 ADDENDUM #1

MARK DATE DESCRIPTION

PROJECT NO: 10962

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DATE:

SHEET TITLE

PLUMBING
SECOND FLOOR PLAN

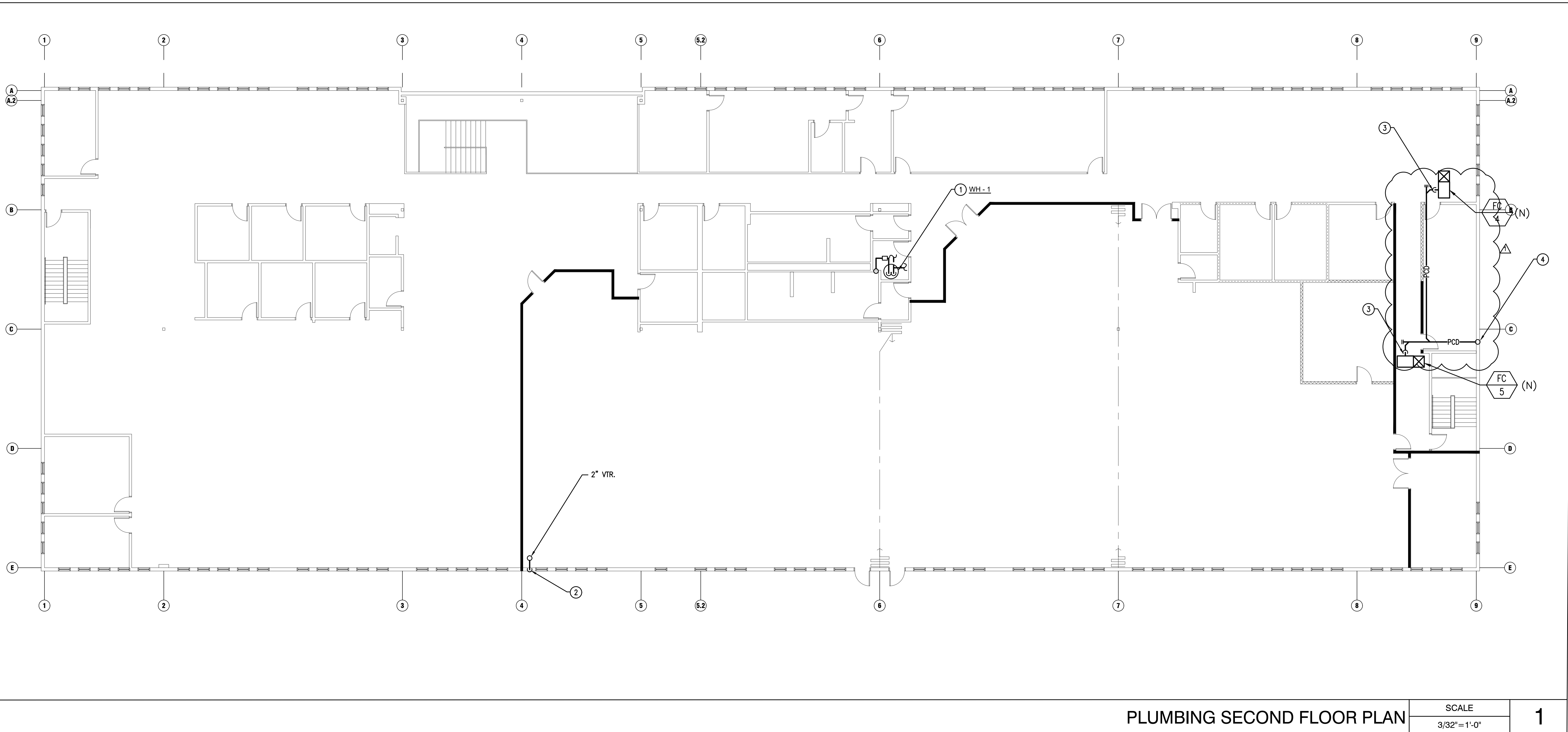
P-2.01

CONSTRUCTION KEY NOTES

1. INSTALL WATER HEATER (WH-1) WITH ALL RELATED ACCESSORIES. RUN 1-1/2" CW DOWN AND 1-1/2" HW UP FROM WATER HEATER. INSTALL SHUT-OFF VALVE, UNIONS, SEISMIC BRACING, AND CIRCULATION PUMP. SEE DETAIL #1/P3.01.
2. RUN 2" VENT UP IN WALL TO CEILING AND VENT UP THROUGH ROOF.
3. CONNECT 3/4" CD TO HVAC UNIT. INSTALL CONDENSATE PUMP (CP-1) WITH ALL RELATED ACCESSORIES.
4. RUN 3/4" PCD DOWN ALONG WALL TO BELOW GRADE AND DISCHARGE INTO DRYWELL. INSTALL DRYWELL ASSEMBLY WITH ALL RELATED ACCESSORIES. SEE DIAGRAM #4/P-3.01

GENERAL NOTES

1. AS-BUILT PLANS ARE NOT AVAILABLE. PRIOR TO START OF WORK CONTRACTOR SHALL VERIFY LOCATION, SIZE AND DEPTH OF EXISTING PIPING.
2. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED FOR INSTALLATION. CONTRACTOR SHALL MAKE COORDINATED SHOP DRAWINGS FOR APPROVAL PRIOR TO START OF WORK.
3. ALL COLD WATER, HOT WATER AND HOT WATER RETURN PIPING ARE TO REMAIN UNLESS OTHERWISE NOTED.
4. ALL EXISTING WASTE, VENT, GAS, STORM DRAIN AND CONDENSATE DRAIN TO REMAIN UNLESS OTHERWISE NOTED.
5. PATCH, PAINT, TILE AND OR REPAIR WORK TO MATCH EXISTING SURROUNDINGS.

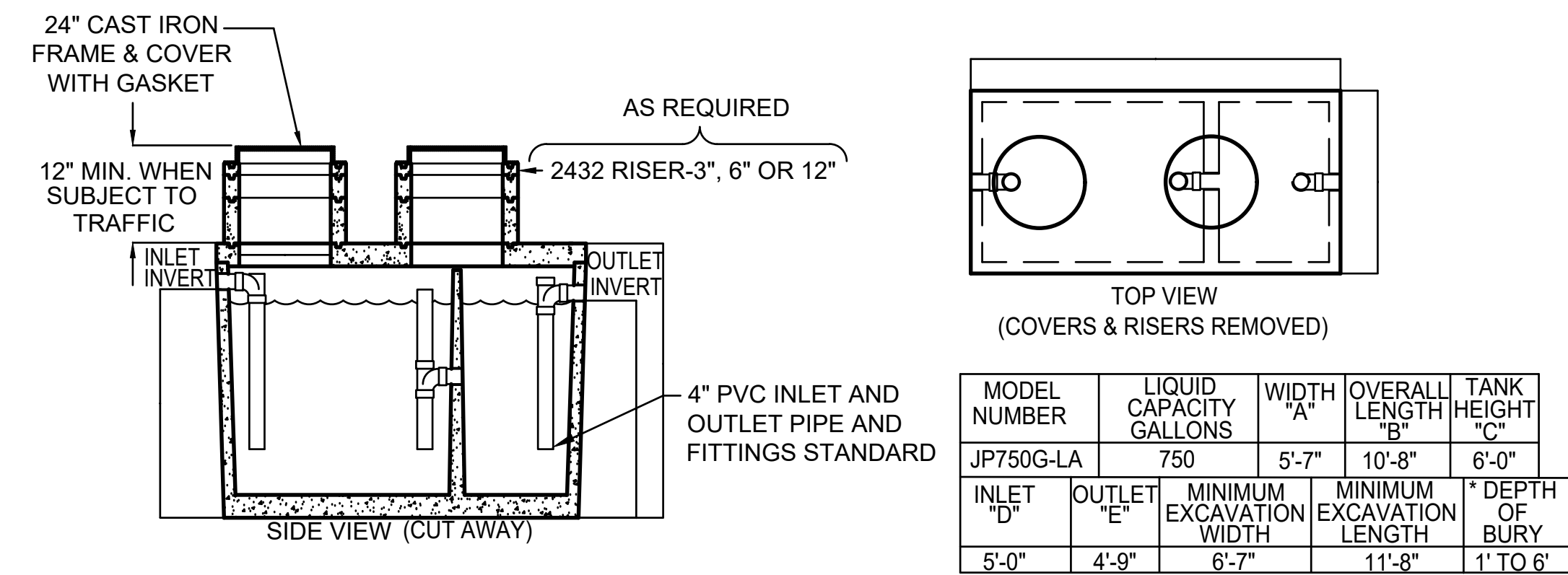


PLUMBING SECOND FLOOR PLAN

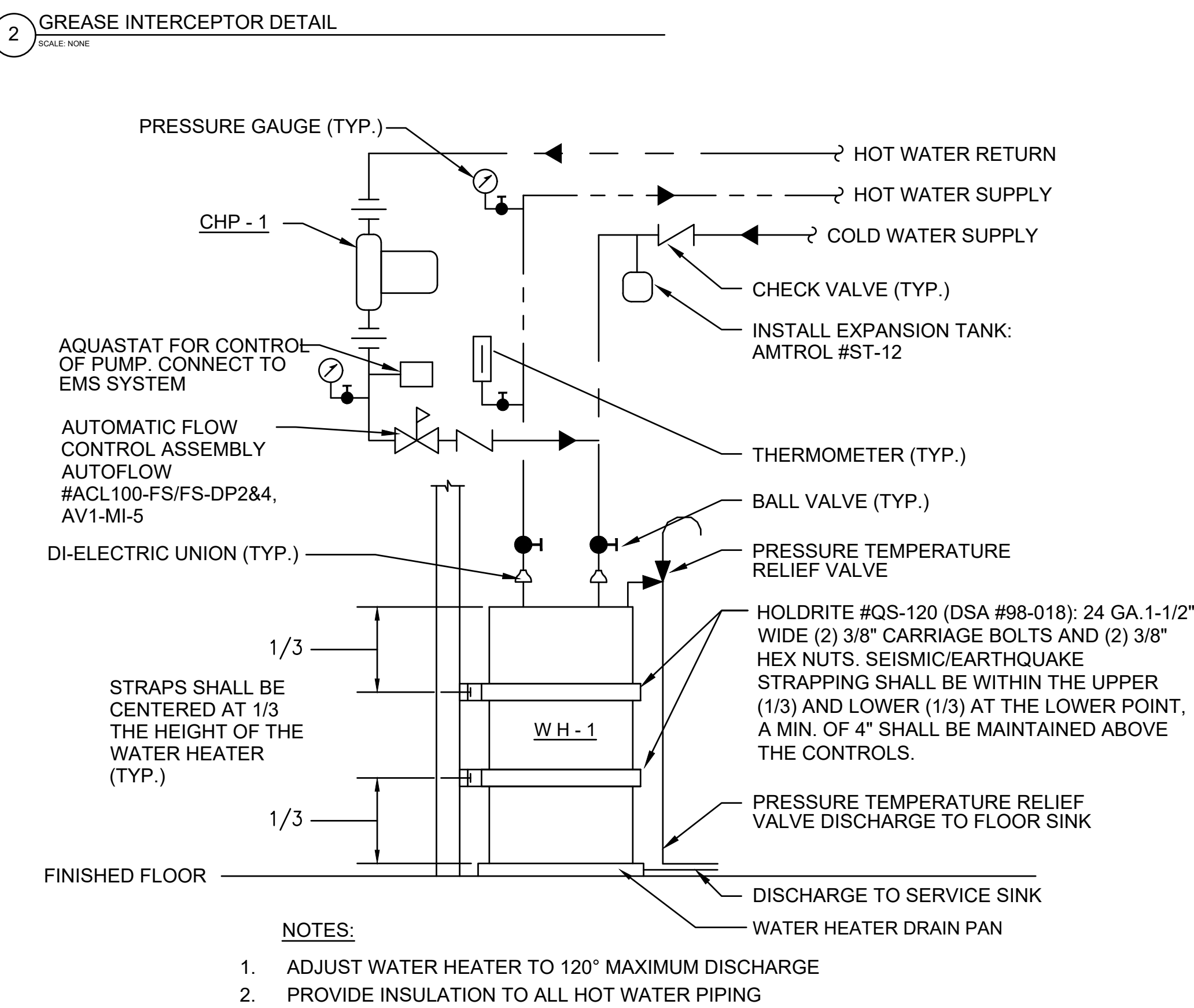
SCALE

3/32" = 1'-0"

1



- TANK DESIGNED FOR H-20 TRAFFIC WHEEL LOAD WITH DRY SOLID CONDITIONS
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST
- SUITABLE NATIVE SOIL OR GRANULAR SUB-BASE SHALL BE COMPACTED AND LEVELED TO HANDLE ANTICIPATED LOADS. SEE INSTALLATION PROCEDURES SHEET FOR ADDITIONAL INFORMATION.



SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT