

Project: **OAHS Multi-Use Room Building**
Project No. 2-2022-02-22-01
 Orcutt Academy High School
 610 Pinal Ave, Orcutt, CA 93455

Owner: Orcutt Union School District
 500 Dyer Street
 Orcutt, CA 93455

Architect: 19six Architects
 560 Higuera Street, Suite C
 San Luis Obispo, CA 93401

Construction Manager: TELACU Construction Management
 604 N. Eckhoff Street
 Orange, CA 92868

BID ADDENDUM 04

Revision: **April 28, 2022**

Note: The following revisions and clarifications to the Bid Documents (plans and specifications) shall become a part of the Contract Documents upon award of Bid. All Bidders are required to incorporate all necessary changes, additions, or deductions into their proposals.

In case of conflict between Bid Documents and this Addendum, this Addendum shall govern. Bidder shall acknowledge receipt of this Addendum on the Bid Form as noted in the Instruction to Bidders, failure to do so may subject Bidder to disqualification.

Volume I – Project Manual, Bid Procedures and Contract

1. Invitation to Bid – Revised Bid Date & Time:

Sealed Bids are now to be received on or before **2:00 p.m., May 12th, 2022**, at the front desk counter at the District Office, located at 500 Dyer Street, Orcutt, CA 93455, in the basket labeled “Bids” at or after which time the bids will be opened and publicly read aloud. Any claim of error by a bidder in its bid must be made in compliance with section 5100 et seq. of the Public Contract Code. Any bid that is submitted after this time shall be non-responsive and returned to the bidder.

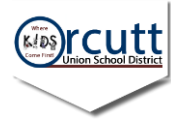
2. Revised Document 00 41 13 Bid Form

Volume II – Technical Specifications and Reports

1. Refer to Addendum 02 by 19-6 Architects which is attached hereto

Volume III – Bid Set Drawings

1. Refer to Addendum 02 by 19-6 Architects which is attached hereto



Pre-Bid RFIs:

1. See attached responses to Pre-Bid RFIs #1-5.
2. Additional Pre-Bid RFI responses will be provided on a forthcoming addendum.

Prepared by,

TELACU Construction Management

Attachments:

1. 00 41 13 Bid Form - Orcutt Academy MUR - Addendum 04
2. Addendum 02 by 19-6 Architects - Orcutt Academy MUR dated April 27, 2022
3. Pre-Bid RFI Responses #1-#5 dated April 27, 2022

DOCUMENT 00 41 13

BID FORM

Bid Package – General Construction
Orcutt Academy High School Multi-Use Room Building

To: Governing Board of Orcutt Union School District (“District” or “Owner”)

From: _____
(Proper Name of Bidder)

Project: Bid No. **2-2022-02-22-01**

- Total Bid.** The undersigned declares that the Contract Documents including, without limitation, the Invitation to Bid, the Instructions to Bidders, and the Special Conditions have been read, and agrees and proposes to furnish all necessary labor, materials, and equipment to perform and furnish all work in accordance with the terms and conditions of the Contract Documents, including, without limitation, the Drawings and Specifications for the following project:

Orcutt Academy High School Multi-Use Room Building (“Project” or “Contract”)

and will accept in full payment for that Work the following total lump sum amount, all taxes included:

_____ Dollars	\$	_____
(A) Base Bid		
One Hundred-Fifty Thousand	Dollars	\$150,000.00
(B) Owner Controlled Allowance		
_____ Dollars	\$	_____
(C) TOTAL BASE BID (A+B)		

2. Additive/Deductive Alternates:

~~Alternate #1 - In the event of unsuitable soils at the building pad over excavation~~

_____ Dollars \$ _____

Additive/Deductive Description: ~~Remove/export existing soils within the over-excavation limits and import with Class II Crushed Aggregate Base. Refer to Special Conditions for detailed description.~~

Alternate #1 – Parking Lot Scope

_____ Dollars \$ _____

Additive Description: Parking Lot Scope - Grading, paving, concrete curbs/sidewalks, underground utilities, landscaping and electrical.

Descriptions of alternates are primarily scope definitions and do not necessarily detail the full range of materials and processes needed to complete the construction.

3. **Unit Price(s).** The Bidder’s Base Bid includes the following unit price(s), which the Bidder must provide and the District may, at its discretion, utilize in valuing additive and/or deductive change orders:

- 1.) Imported Class II Aggregate Base (No Recycled Material) - Unit cost per cubic yard: \$ _____/cubic yard
- 2.) Tensar TX160 triaxial geogrid - Unit Cost per square foot \$ _____/square foot

4. **Allowance(s).** The Bidder’s Base Bid shall **NOT** include the following potential Allowance(s). The District will add some or all of the following Allowance(s) amount(s) to the successful bidder’s Contract, at the District’s discretion. Contractor shall be permitted to invoice for Work under an Allowance in the identical structure as a Change Order.

Owner Allowance - \$150,000.00

5. **Contract Review.** The undersigned has reviewed the Work outlined in the Contract Documents and fully understands the scope of Work required in this bid, understands the construction and project management function(s) is described in the Contract Documents, and that each Bidder who is awarded a contract shall be in fact a prime contractor, not a subcontractor, to the District, and agrees that its bid, if accepted by the District, will be the basis for the Bidder to enter into a contract with the District in accordance with the intent of the Contract Documents.

6. **Requests for Clarification.** The undersigned has notified the District in writing of any discrepancies or omissions or of any doubt, questions, or ambiguities about the meaning of any of the Contract Documents, and has contacted the Construction Manager before bid date to verify the issuance of any clarifying Addenda.

7. **Contract Time.** The undersigned agrees to commence work under this Contract on the date established in the Contract Documents and to complete all work within the time specified in the Contract Documents.

8. **Contractual Provisions.** The undersigned hereby acknowledges and agrees to be bound by following provisions and all provisions in the Contract Documents:

- The liquidated damages clause of the General Conditions and Agreement.

- The “Changes in the Work” provisions in the General Conditions that limit the permitted charges and mark-ups on change orders and on the amount of home office overhead that the successful bidder can receive from the District.
- The “Claims” provisions in the General Conditions that delineate the required process to submit and process disputes and claims.

9. **Bid Open for 90 Days.** It is understood that the District reserves the right to reject this bid and that the bid shall remain open to acceptance and is irrevocable for a period of ninety (90) days.

10. **Attachments.** The following documents are attached hereto:

- The Bid Bond on the District's form or other security. **Bidder must attach Power of Attorney and Certificate of Authority for Surety and a Notarial Acknowledgement for all Surety’s signatures. The California Department of Insurance must authorize the Surety to be an admitted Surety Insurer.**
- The Designated Subcontractors List
- The Site Visit Certification
- The Non-Collusion Declaration
- Iran Contracting Act Certification
- Disabled Veteran’s Business Enterprise Participation Certification
- Key Personnel Designation (00 70 00-13)

11. **Addenda Acknowledgement.** Receipt and acceptance of the following addenda is hereby acknowledged:

No.____, Dated _____	No.____, Dated _____
No.____, Dated _____	No.____, Dated _____
No.____, Dated _____	No.____, Dated _____
<input type="checkbox"/> Or check here if no addenda were issued.	

12. **Bidder’s License.**

- Bidder acknowledges that the license required for performance of the Work is as stated in the Invitation to Bid.
- Bidder certifies that it is, at the time of bidding, and shall be throughout the period of the contract, licensed by the State of California to do the type of work required under the terms of the Contract Documents. Bidder further certifies that it is regularly engaged in the general class and type of work called for in the Contract Documents.

13. **Labor Harmony.** The undersigned hereby certifies that Bidder is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the Work.

14. **DIR Registration.** Bidder shall ensure that it and its Subcontractors comply with the registration and compliance monitoring provisions of Labor Code section 1771.4, including furnishing its CPRs to the Labor Commissioner, and are registered pursuant to Labor Code section 1725.5.

15. **SWPPP QSP.** Bidder specifically acknowledges and understands that if it is awarded the Contract, it shall perform the Work of the Project related to being the District's Qualified SWPPP (Storm Water Pollution Prevention Plan) Practitioner ("QSP") and that the Bidder is certified to be the District's QSP, as required by the current California State Water Board's Construction General Permit.

16. **General Acknowledgement.** The Bidder represents that it is competent, knowledgeable, and has special skills with respect to the nature, extent, and inherent conditions of the Work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions existent in the construction of the Work that may create, during the Work, unusual or peculiar unsafe conditions hazardous to persons and property. Bidder expressly acknowledges that it is aware of such peculiar risks and that it has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the Work with respect to such hazards.

17. False Claims Act. Bidder expressly acknowledges that it is aware that if a false claim is knowingly submitted (as the terms "claim" and "knowingly" are defined in the California False Claims Act, Cal. Gov. Code, §12650 et seq.), the District will be entitled to civil remedies set forth in the California False Claim Act. It may also be considered fraud and the Contractor may be subject to criminal prosecution.

Furthermore, Bidder hereby certifies to the District that all representations, certifications, and statements made by Bidder, as set forth in this bid form, are true and correct and are made under penalty of perjury.

Dated this _____ day of _____ 20 _____

Signature _____

Signed by (Print Name) _____

Title of Person Signing _____

Name of Bidder _____

Type of Organization _____

Address of Bidder _____

Taxpayer's Identification No. of Bidder _____

Telephone Number _____

Fax Number _____

E-mail _____ Web page _____

Bidder's DIR Registration No.: No.: _____

Contractor's License No(s): No.: _____ Class: _____ Expiration Date: _____

No.: _____ Class: _____ Expiration Date: _____

No.: _____ Class: _____ Expiration Date: _____

If Bidder is a corporation, provide the following:

Name of Corporation: _____

President: _____

Secretary: _____

Treasurer: _____

Manager: _____

END OF DOCUMENT

ADDENDUM NO. 02

Project: Orcutt Union School District
 Orcutt Academy High School
Multi-Use Room Building
 19six No. 20179.01
 DSA App. No.: 03-121912 File No.: N/A
 Bid No.:

Date: April 27, 2022

To all bidders submitting proposals for the above captioned project. This Addendum is hereby included in the Contract Documents to the same extent as though it were originally included therein. The following items modify, add to, delete from, or explain the drawings and/or specifications. The contents of this Addendum shall take precedence over the original specifications and plans.

SPECIFICATIONS

- Item #1:** **Table of Contents.** Revise Specifications' Table of Contents. See revised page 2 and page 4 of the Specifications' Table of Contents.
- Item #2:** **Sheet Metal Flashing & Trim.** Revise page 1 of specification section 07 62 00 and remove language in red bold ink. See revised page 1 of specification section 07 62 00.
- Item #3:** **Exterior Storefront.** Revise page 5 of specification section 08 41 13 to specify front-glazed application. See revised page 5 of specification section 08 41 13.

DRAWINGS

- Item #5:** **Downspouts.** Revise keynote 07.62.B on sheet A-301 to note material type per plumbing specifications. See revised sheet A-301.
- Item #6:** **Board Insulation.** Revise detail 1/A-702 to specify board insulation. See revised sheet A-702.
- Item #7:** **Hose Bibb.** Add hose bibb (HB-1) to Plumbing Fixture Schedule on sheet P001. Provide cutsheet for hose bibb (HB-1). See revised sheet P001. See cutsheet (HB-1).
- Item #8:** **Overflow Nozzle.** Add nozzle and update reference notes on sheet P221. See revised sheet P221.

ATTACHMENTS:

Specifications Table of Contents Pages 2 and 4

07 62 00 Page 1

08 41 13 Page 5

A-301 EXTERIOR ELEVATIONS

A-702 EXTERIOR DETAILS

P001 PLUMBING NOTES, LEGEND, SCHEDULES & ABBREVIATIONS

P221 PLUMBING ROOF PLAN

HB-1 HOSE BIBB CUTSHEET



Alan Kroeker

C-22474

Orcutt Union School District
 Orcutt Academy HS MUR Building
 Construction Documents

DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES

06 16 00 Sheathing	SWA
06 41 00 Architectural Woodwork	19six

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

07 19 13 Concrete Floor Sealer	19six
07 19 16 Concrete Moisture and Alkalinity Barrier	19six
07 21 13 Board Insulation	19six
07 21 16 Blanket Insulation	19six
07 26 20 Under Slab Vapor Barrier	19six
07 42 43 Composite Wall Panels	19six
07 42 93 Preformed Aluminum Soffit Panels	19six
07 54 16 Thermoplastic Membrane Roofing	19six
07 62 00 Sheet Metal Flashing and Trim	19six
07 62 13 Flexible Sheet Flashing	19six
07 72 00 Roof Accessories	19six
07 84 13 Through-Penetration Firestop Systems	19six
07 84 16 Fire-Resistive Joint System	19six
07 92 00 Joint Sealants	19six

DIVISION 8 - OPENINGS

08 11 00 Steel Doors and Frames	19six
08 31 13 Access Doors and Panels	19six
08 41 13 Aluminum-Framed Entrances and Storefronts	19six
08 51 13 Aluminum Windows	19six
08 62 00 Unit Skylights	19six
08 71 00 Door Hardware	DORMAKABA
08 80 00 Glazing	19six

DIVISION 9 – FINISHES

09 24 00 Portland Cement Plaster	19six
09 29 00 Gypsum Board	19six
09 30 13 Ceramic Tile	19six
09 51 13 Acoustical Panel Ceilings	19six
06 64 20 Wood Gymnasium Flooring	19six
09 65 13 Resilient Base	19six
09 68 13 Carpet Tile	19six
09 70 00 Fiber Reinforced Plastic Panels	19six
09 91 00 Painting	19six
09 96 23 Graffiti Resistant Coating	19six

DIVISION 10 – SPECIALTIES

Orcutt Union School District
 Orcutt Academy HS MUR Building
 Construction Documents

26 28 16 Enclosed Switches and Circuit Breakers	THOMA
26 33 23 Central Inverter System	THOMA
26 51 00 Interior Lighting	THOMA
26 56 00 Exterior Lighting	THOMA
26 56 70 Lighting Acceptance Testing	THOMA
26 77 00 Assistive Listening System	THOMA

DIVISION 27 – COMMUNICATIONS

27 13 00 Intercommunication Systems	THOMA
27 51 23 Integrated Electronic Comm System	THOMA

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

28 31 00 Fire Alarm and Detection System	THOMA
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DIVISION 31 – EARTHWORK – NOT USED

DIVISION 32 – EXTERIOR IMPROVEMENTS

32 17 25 Cast-in-Place Tactile Warning Surface	19six
32 31 13 Chain Link Fences and Gates	19six
32 31 17 Ornamental Fences and Gates	19six

DIVISION 33 – UTILITIES – NOT USED

END OF TABLE OF CONTENTS

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Orcutt Union School District
Orcutt Academy HS MUR Building
Construction Documents



SECTION 07 62 00 - SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections apply to this Section.

1.2 SUMMARY

- A. Section Includes:
1. Gutters and downspouts.
 2. Parapet caps
 3. Roof to wall
 4. Reglets, Roof Edge Flashings
 5. Riser/ curb caps
 6. Sheet metal flashing and trim not specifically specified in other sections.
- B. Related Sections:
1. Division 5 Section "Cold-Formed Metal Framing".
 2. Division 7 Section "Joint Sealants"
 3. Division 7 section "Roof Accessories" for set-on-type curbs, equipment supports, roof hatches, vents, and other manufactured roof accessory units.
 4. Division 7 Section "Metal Roof Panels" for gutters, downspouts, sheet metal flashing and trim integral with metal roof panels.
 5. Division 7 Section "Flexible Sheet Flashing"
 6. Division 9 Section "Painting" for field painting.

1.3 PERFORMANCE REQUIREMENTS

- A. General: Sheet metal flashing and trim assemblies as indicated shall withstand wind

Orcutt Union School District
 Orcutt Academy HS MUR Building
 Construction Documents

3. Use exposed fasteners with countersunk Phillips screw heads, finished to match framing system.
- D. Concrete and Masonry Inserts: Hot-dip galvanized cast-iron, malleable-iron, or steel inserts complying with ASTM A 123 or ASTM A 153 requirements.
- E. Flashing: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding flashing compatible with adjacent materials. Form exposed flashing from sheet aluminum finished to match framing and of sufficient thickness to maintain a flat appearance without visible deflection.
- F. Framing System Gaskets and Sealants: Manufacturer's standard recommended by manufacturer for joint type.
- G. Product: Trifab VG 451T (Exterior), Trifab VG 451 non-thermal (Interior) by Kawneer.
 1. Dimensions: 4-1/2 inch deep with 2 inch sightline.
 2. Front, ~~Center, Back or Multi Plane~~ glass applications
 3. Flush glazed from either the inside or outside
 4. Screw Spline, Shear Block, Stick or Type-B fabrication
 5. SSG / Weatherseal.

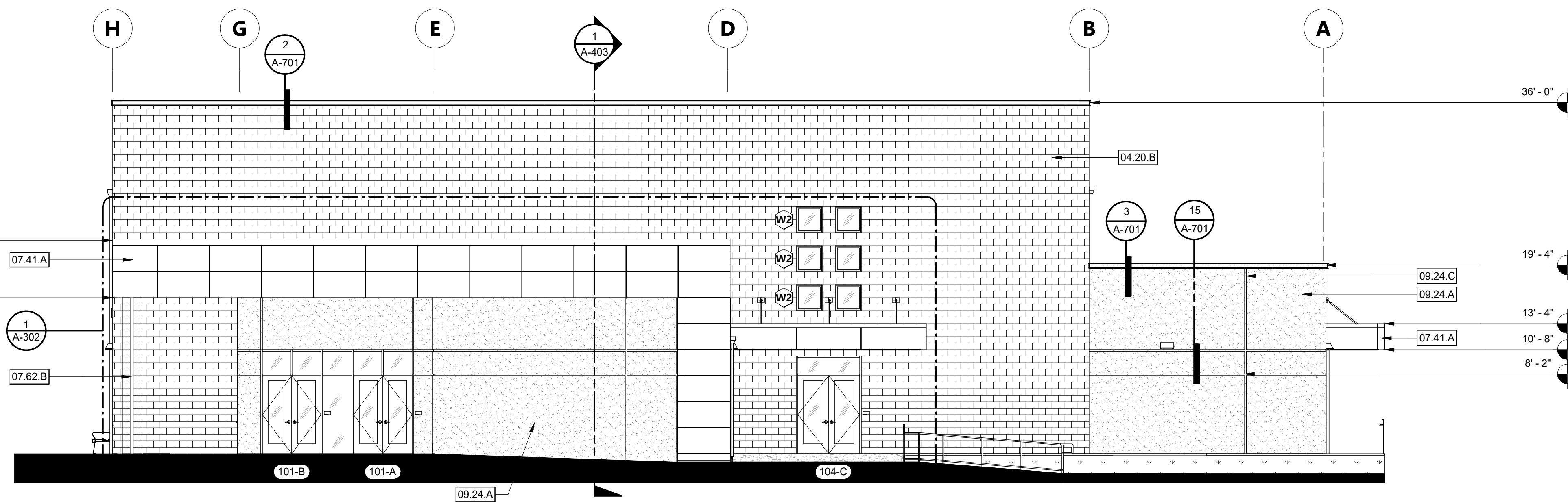
2.4 GLAZING SYSTEMS

- A. Glazing: Insulated glazing as specified in Division 8 Section "Glazing."
- B. Glazing Gaskets: Manufacturer's standard compression types, replaceable, molded or extruded, that maintain uniform pressure and watertight seal.
- C. Spacers and Setting Blocks: Manufacturer's standard elastomeric types.

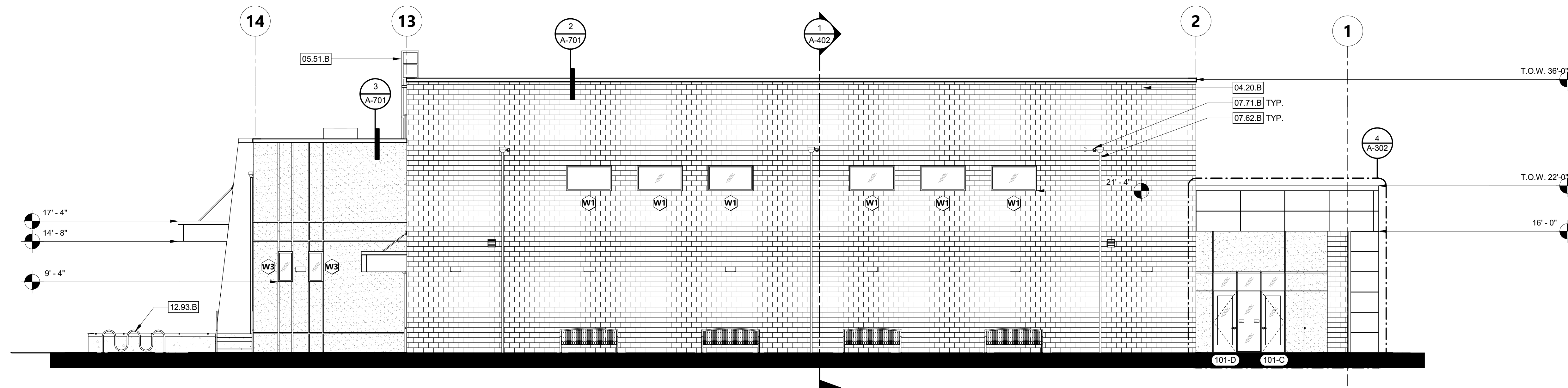
2.5 DOORS AND FRAMES

- A. Doors:
 1. Wide stile, 5 inch vertical face dimension.
 2. Depth: 2-inch overall thickness, with minimum 0.188-inch- thick, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deep penetration and fillet welded or that incorporate concealed tie rods.
 3. Bottom rail: 12" High Bottom Rail, as indicated on Drawings.
 4. Glazing Stops and Gaskets: Square, snap-on, extruded-aluminum stops and preformed gaskets.
- B. Frames:
 1. Depth: 4-1/2 inches.
 2. Frame wall thickness: 3/16 inch exposed faces and sides, 5/16 inch at recessed sidewalls receiving mortised or concealed hardware.
- C. Door Hardware: As specified in Division 8 Section "Door Hardware."

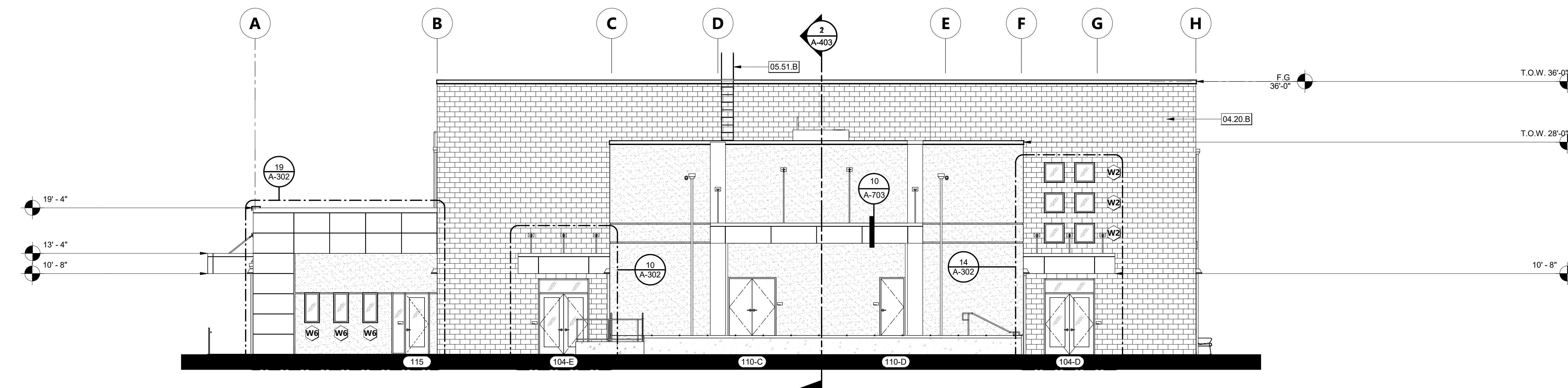
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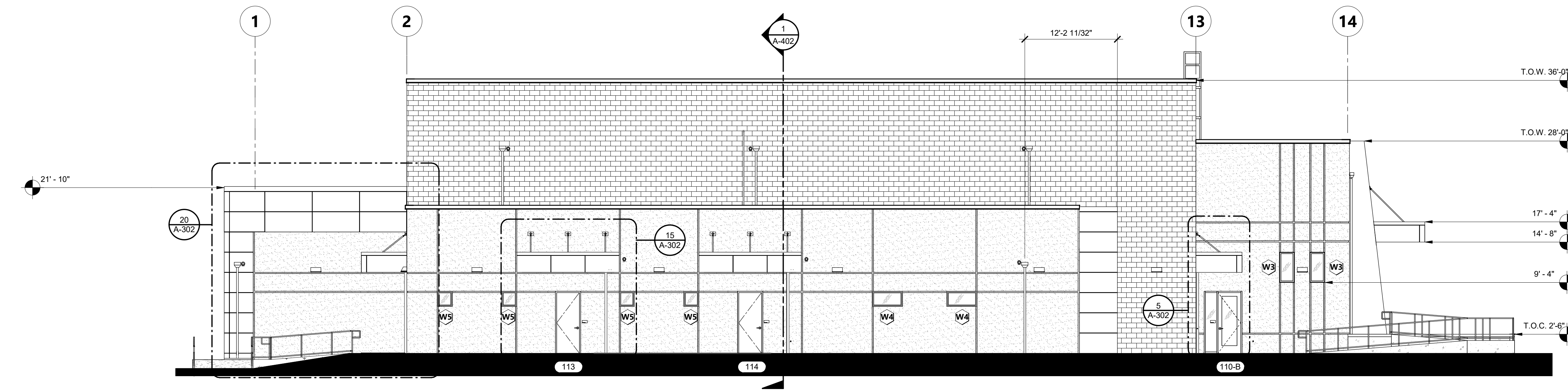
NORTH ELEVATION 1/8" = 1'-0" 1



EAST ELEVATION 1/8" = 1'-0" 2



SOUTH ELEVATION 1/8" = 1'-0" 3



WEST ELEVATION 1/8" = 1'-0" 4

KEYNOTES

- 04.20.B 12" SPLIT FACE CMU
- 05.51.B EXTERIOR ALUMINUM LADDER
- 07.41.A METAL WALL PANELS
- 07.62.B SYSTEM DOWNSPOUT PER PLUMBING SPECIFICATIONS, CONNECT TO STORM DRAIN
- 07.71.B OVERFLOW NOZZLE
- 09.24.A PORTLAND CEMENT PLASTER
- 09.24.C 2" ALUMINUM REVEAL
- 12.93.B BIKE RACK

AGENCY APPROVAL DSAE 03-121912

196 ARCHITECTS
 560 HIGUERA STREET, SUITE C
 SAN LUIS OBISPO, CA 93401
 TEL (805) 476-0399

- CONSULTANTS**
- CIVIL ENGINEER**
 STANTEC CONSULTING SERVICES INC.
 111 East Victoria Street
 Santa Barbara, CA 93101
 TEL (805) 680-6830
 - LANDSCAPE ARCHITECT**
 OASIS ASSOCIATES
 2427 Miguelito Court
 San Luis Obispo, CA 93401
 TEL (805) 541-4509
 - STRUCTURAL ENGINEER**
 STORK, WOLFE & ASSOCIATES
 555 Chorro Street, Suite A1
 San Luis Obispo, CA 93405
 TEL (805) 548-8500
 - MECHANICAL ENGINEER**
 BMA MECHANICAL +
 100 Cross Street, Suite 204
 San Luis Obispo, CA 93401
 TEL (805) 544-4269
 - ELECTRICAL ENGINEER**
 THOMA ENGINEERING
 3562 Empeo, Suite C
 San Luis Obispo, CA 93406
 TEL (805) 543-3850
 - FIRE PROTECTION ENGINEER**
 BMA MECHANICAL +
 100 Cross Street, Suite 204
 San Luis Obispo, CA 93401
 TEL (805) 544-42-69

ARCHITECT STAMP
 CONSULTANT STAMP

REVISIONS

NO.	DATE	DESCRIPTION
1	April 27, 2022	Addendum 2

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

EXTERIOR ELEVATIONS GENERAL NOTES

1. FOR WINDOW AND STOREFRONT SIZES AND MOUNTING HEIGHTS SEE SHEET A-802.
2. ALL STEEL TO BE GALVANIZED AND PAINTED.
3. EXTERIOR CEMENT PLASTER TO BE PAINTED.

PROJECT OWNER & TITLE
ORCUTT UNION SCHOOL DISTRICT
 500 Dyer Street
 Orcutt, CA 93455

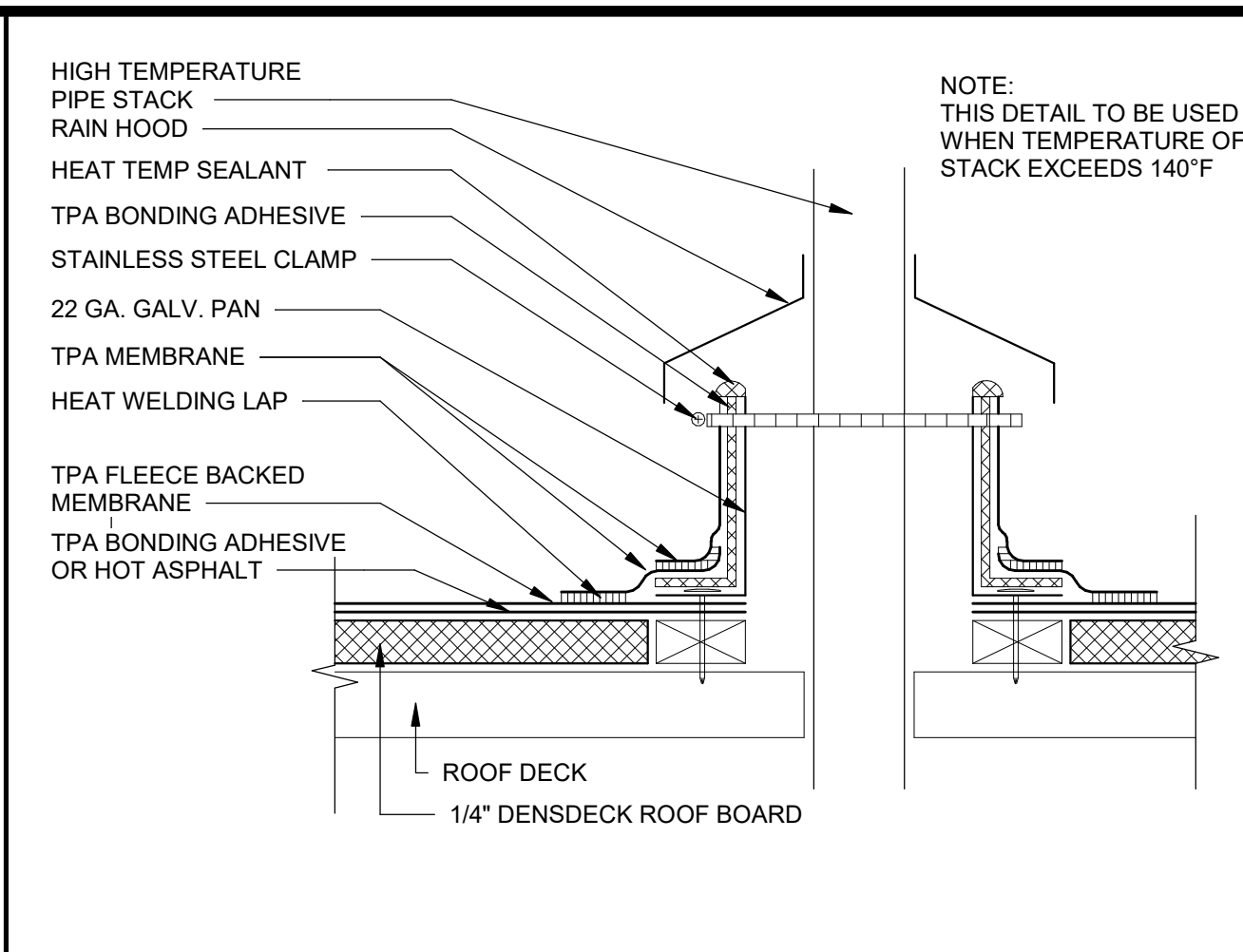
ORCUTT ACADEMY HS MUR BUILDING
 610 Pinal Avenue
 Orcutt, CA 93455

SHEET TITLE
EXTERIOR ELEVATIONS

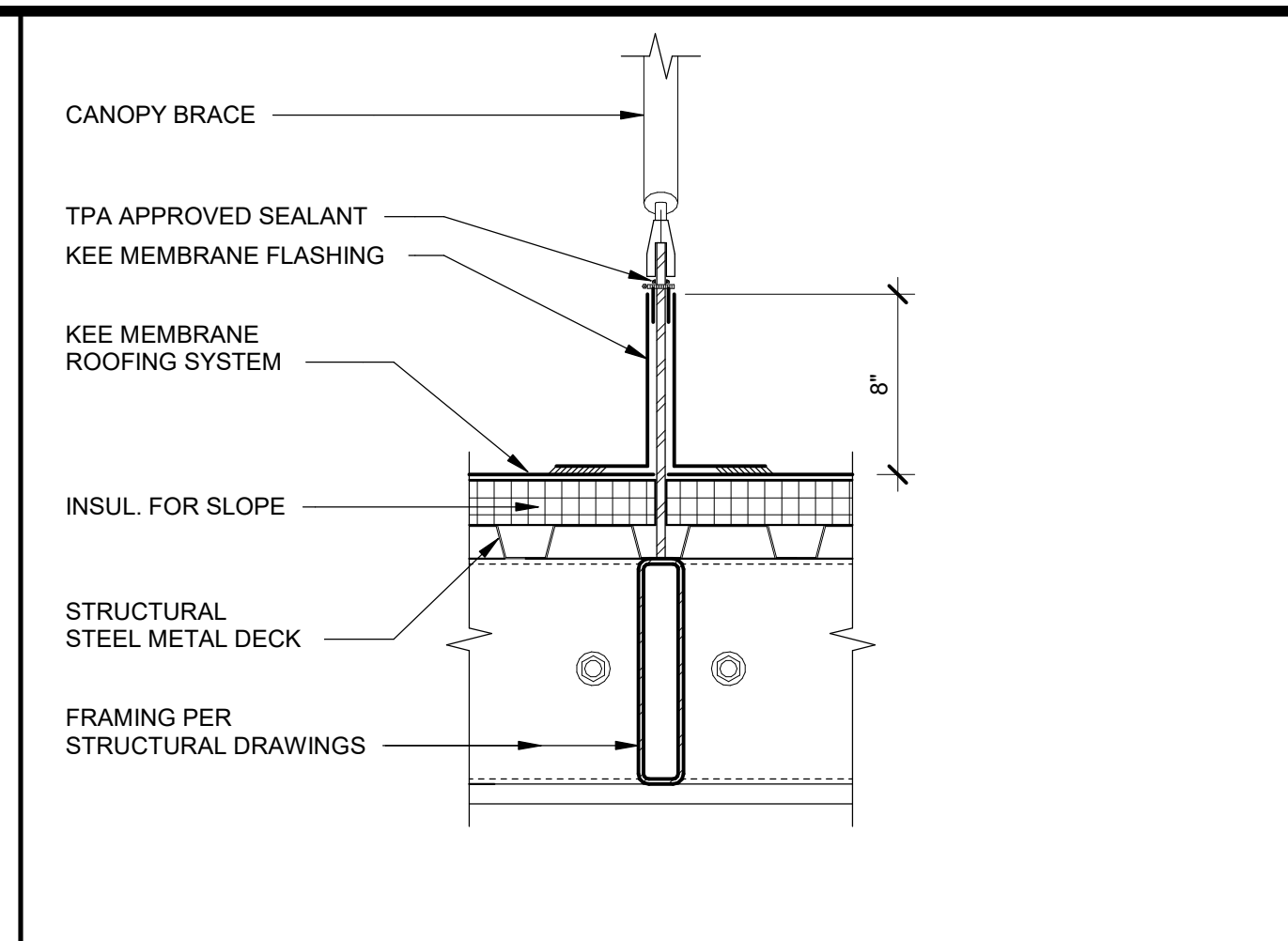
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SHEET NO.
A-301
 DATE: APRIL 5, 2022

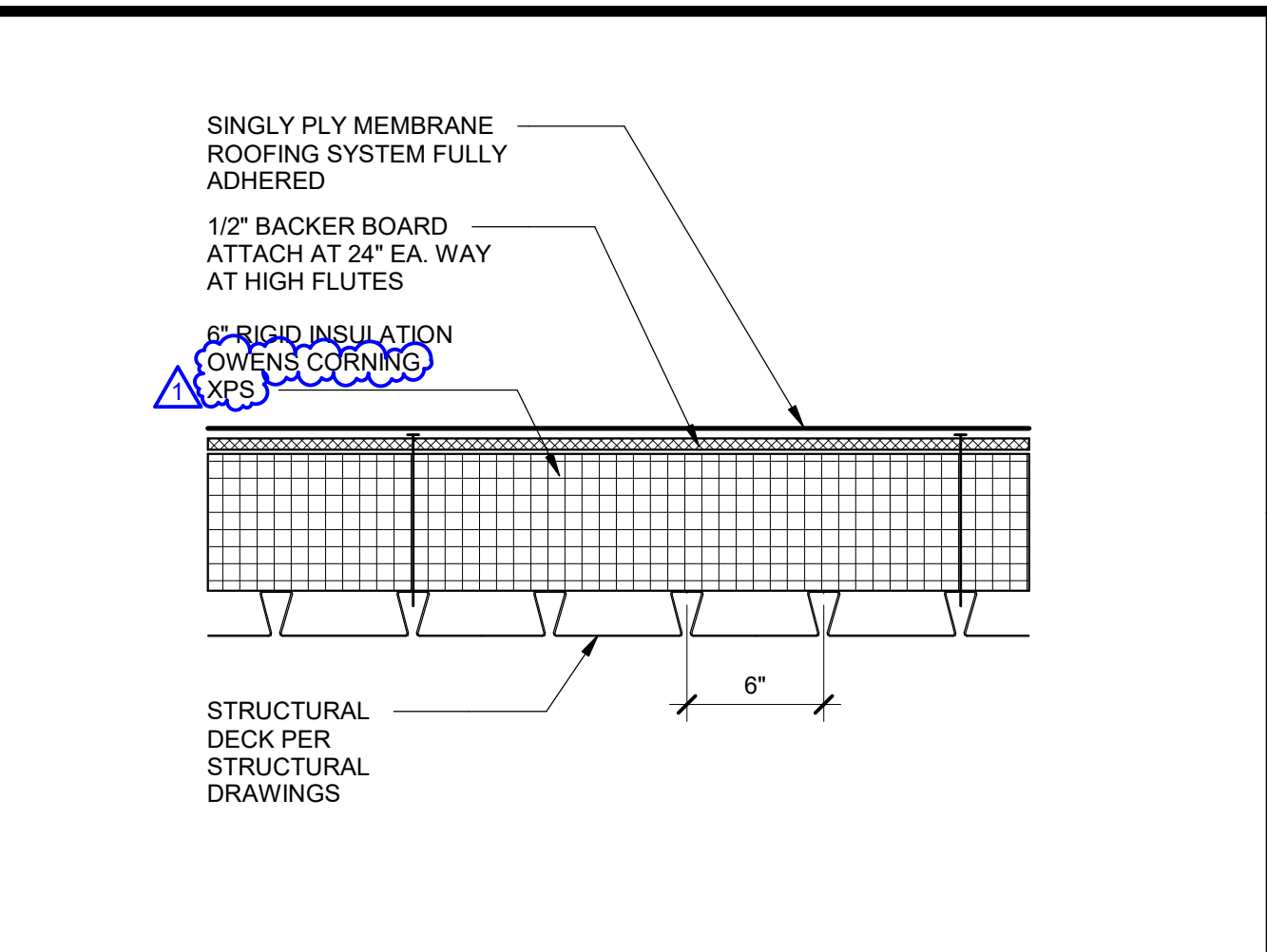
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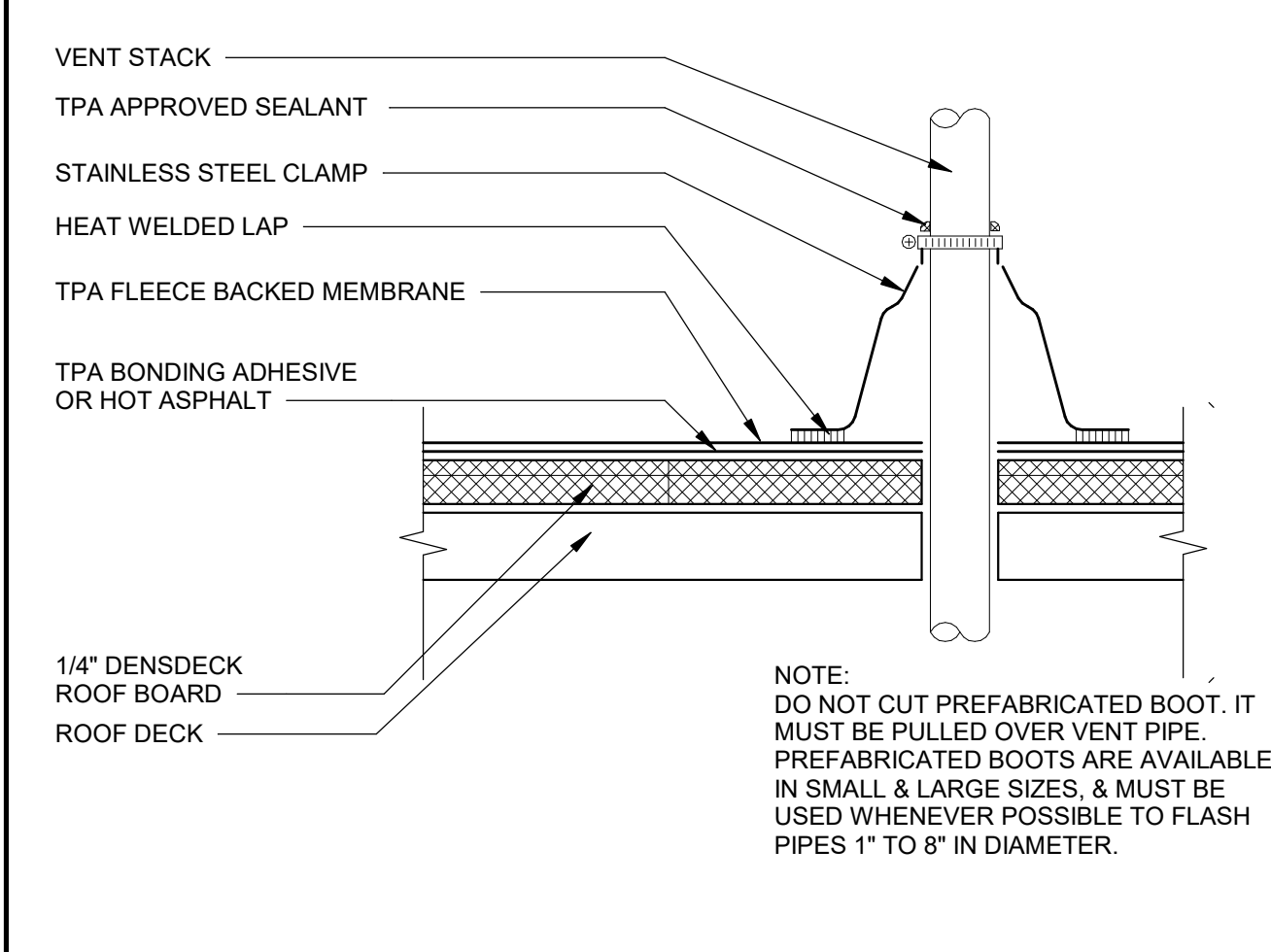
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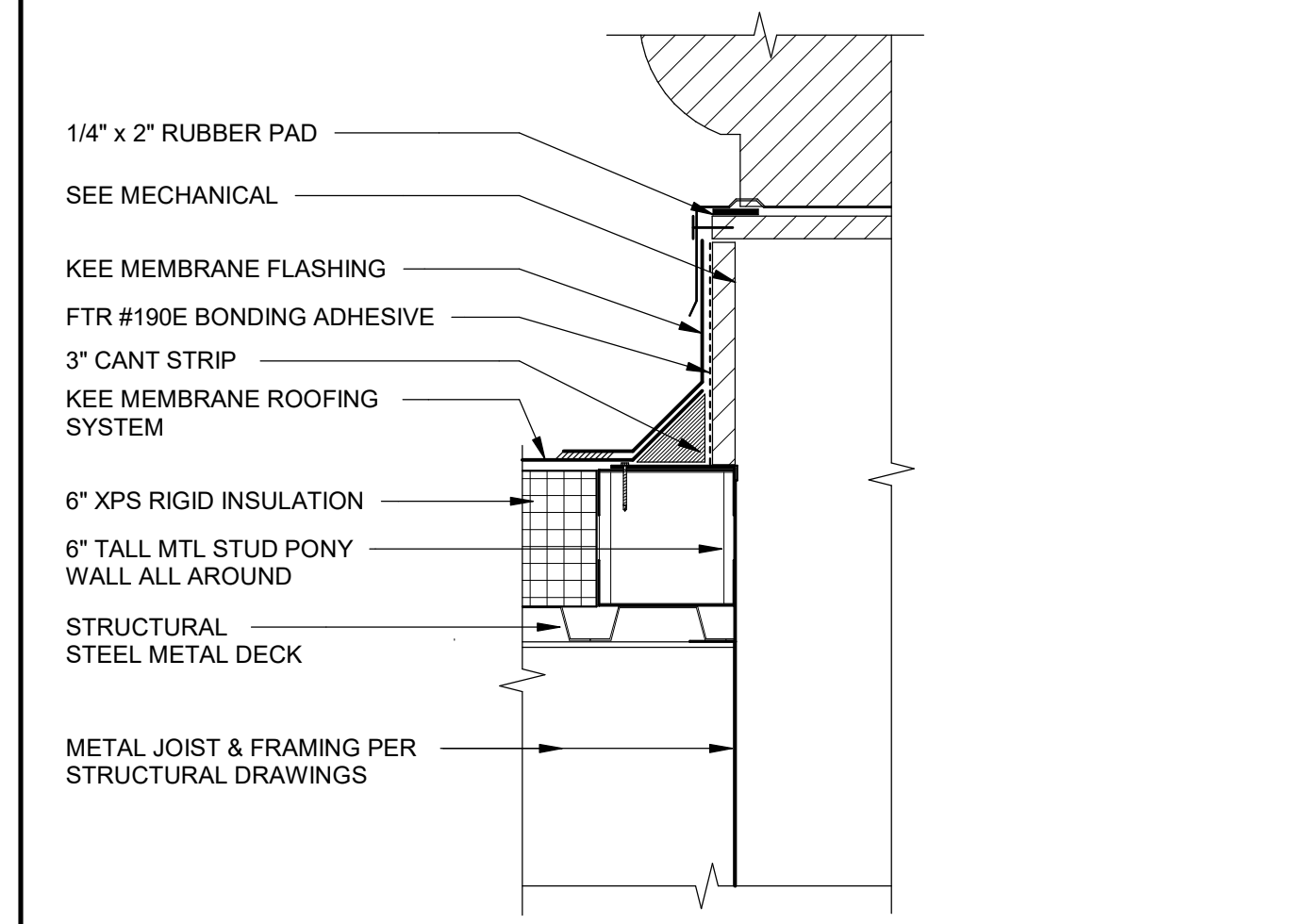
ROOF FLASHING AT BRACE 1 1/2" = 1'-0" 6



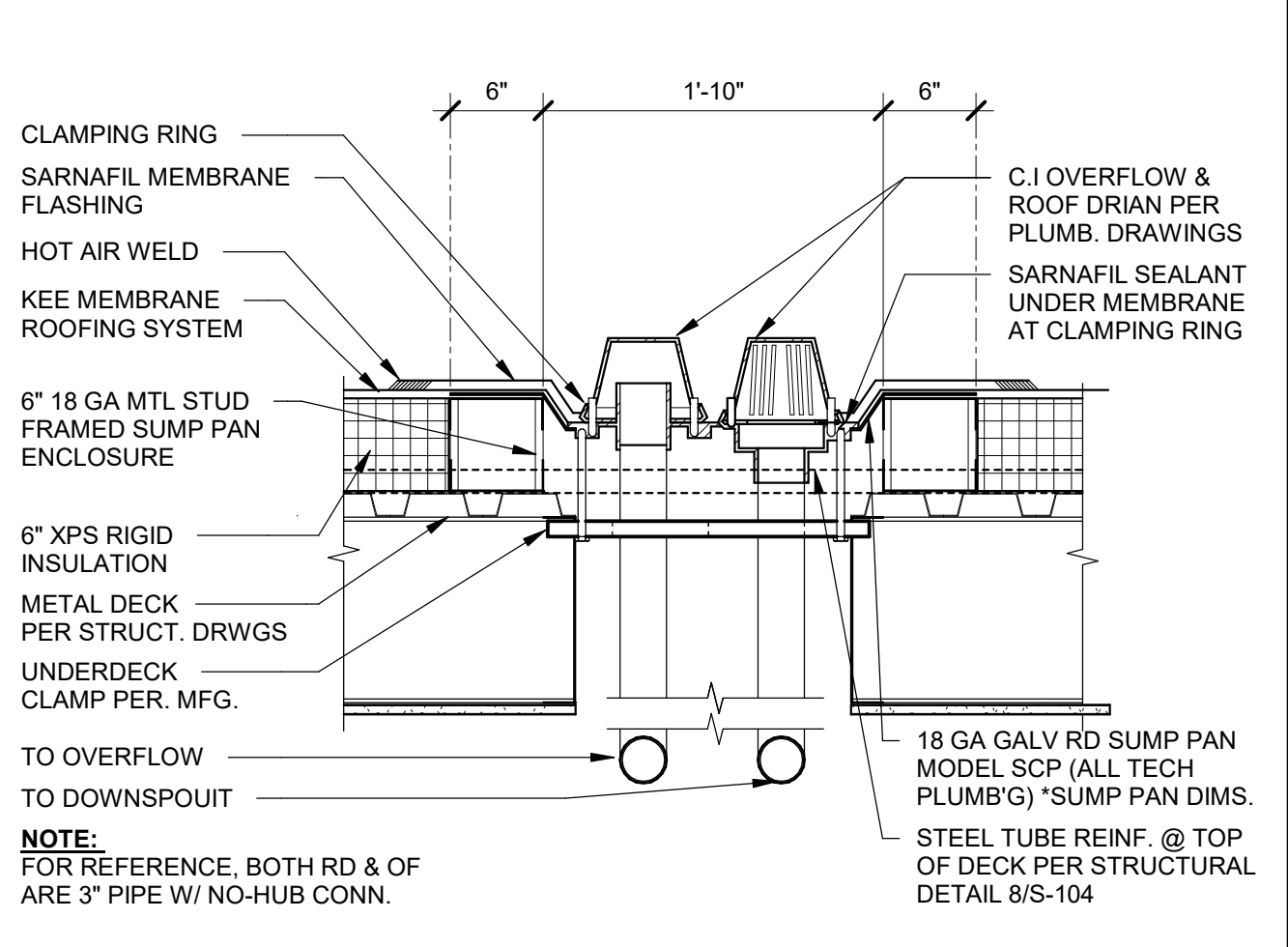
KEE MEMBRANE ROOFING 1 1/2" = 1'-0" 1



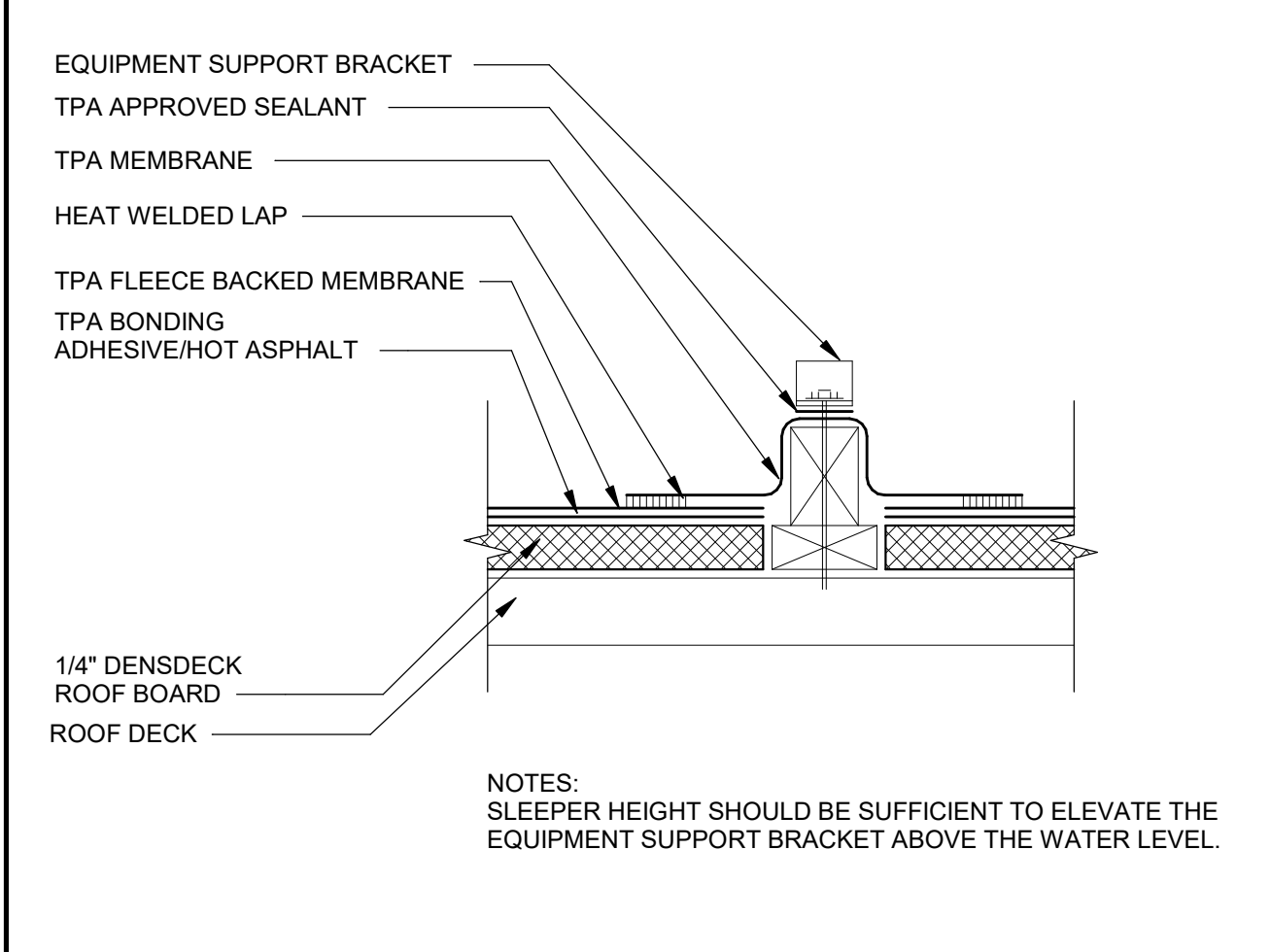
PREFAB VENT FLASHING 12" = 1'-0" 12



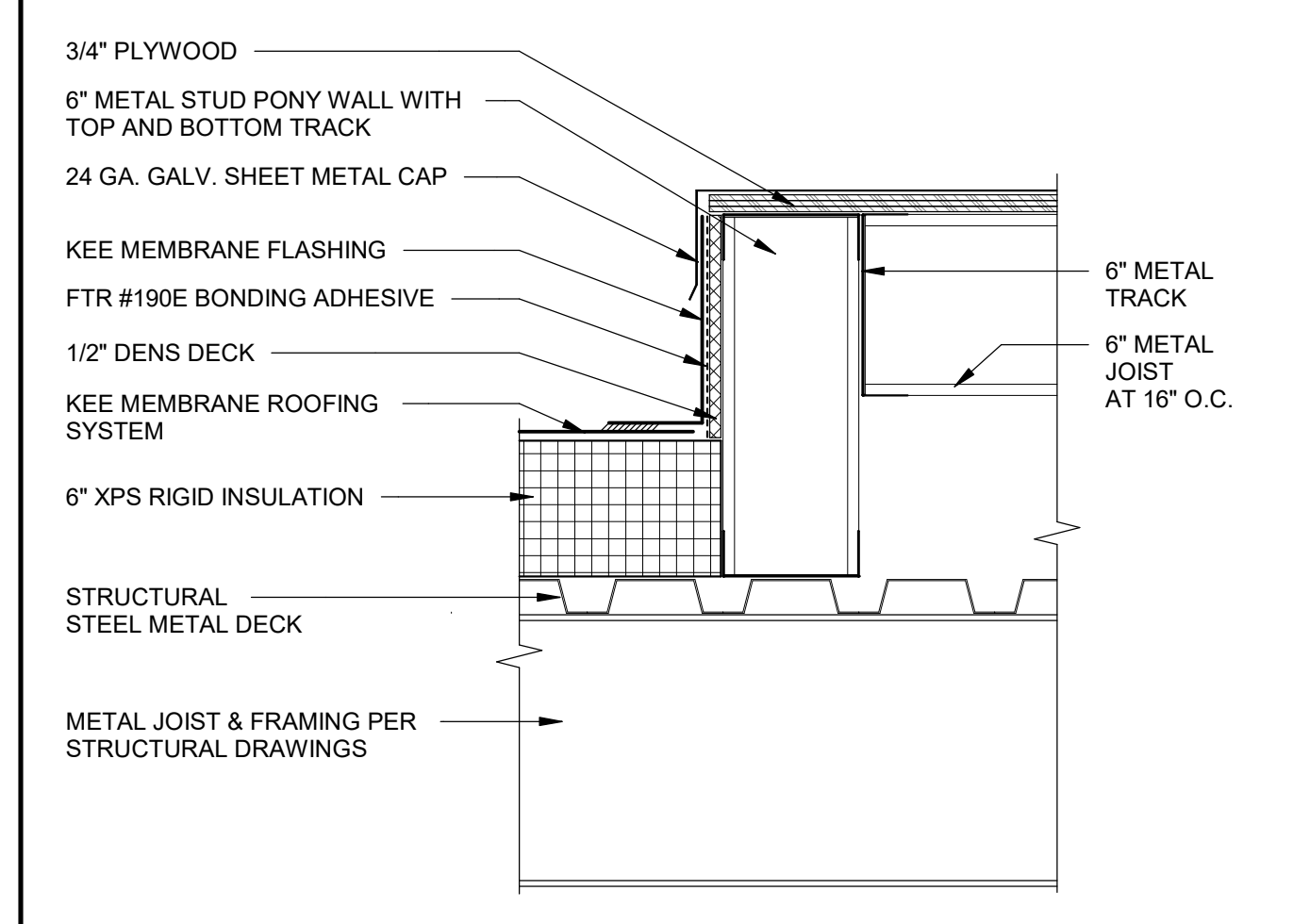
EXHAUST FAN CURB FLASHING 1 1/2" = 1'-0" 7



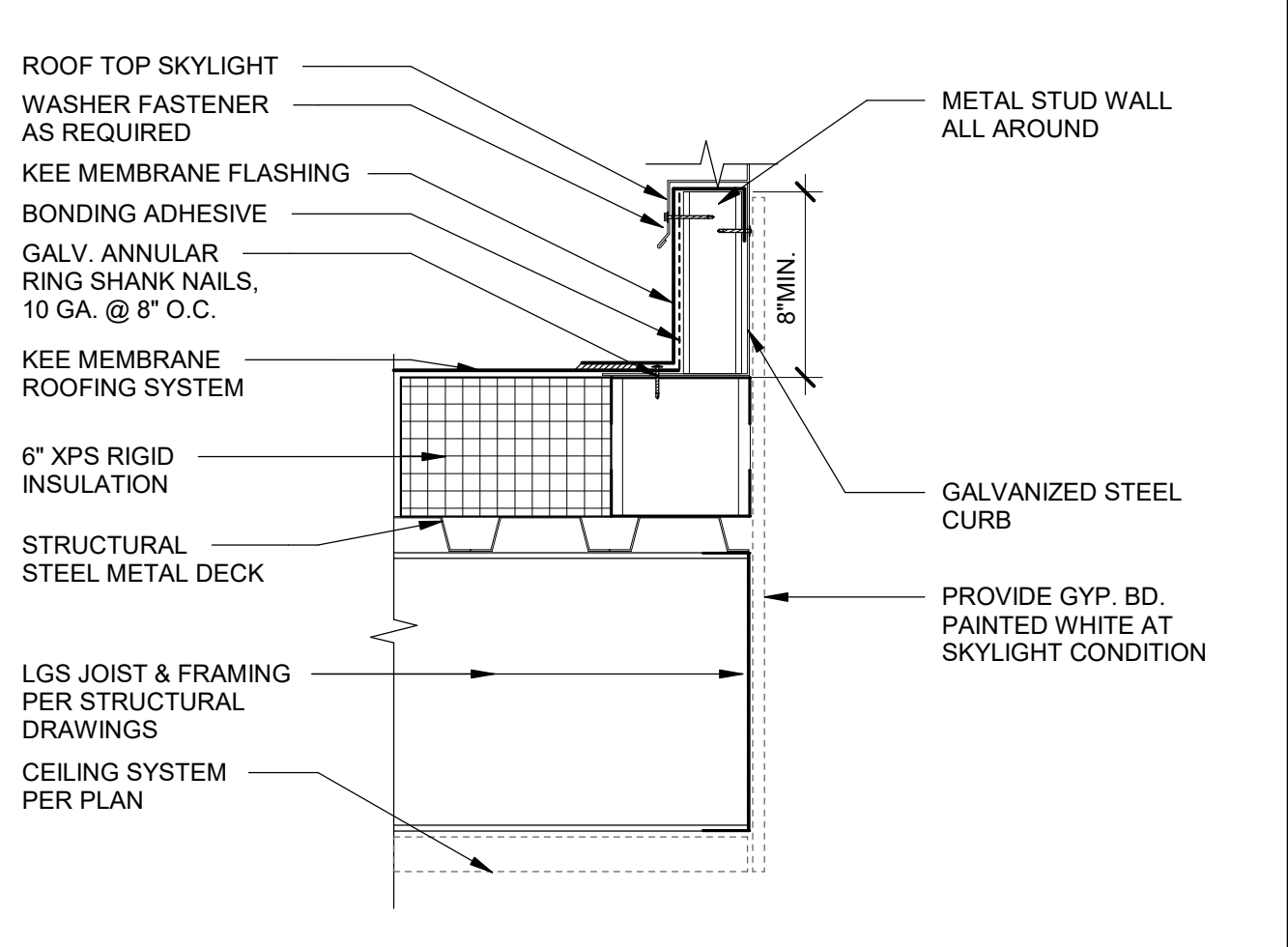
ROOF DRAIN & OVERFLOW 1" = 1'-0" 2



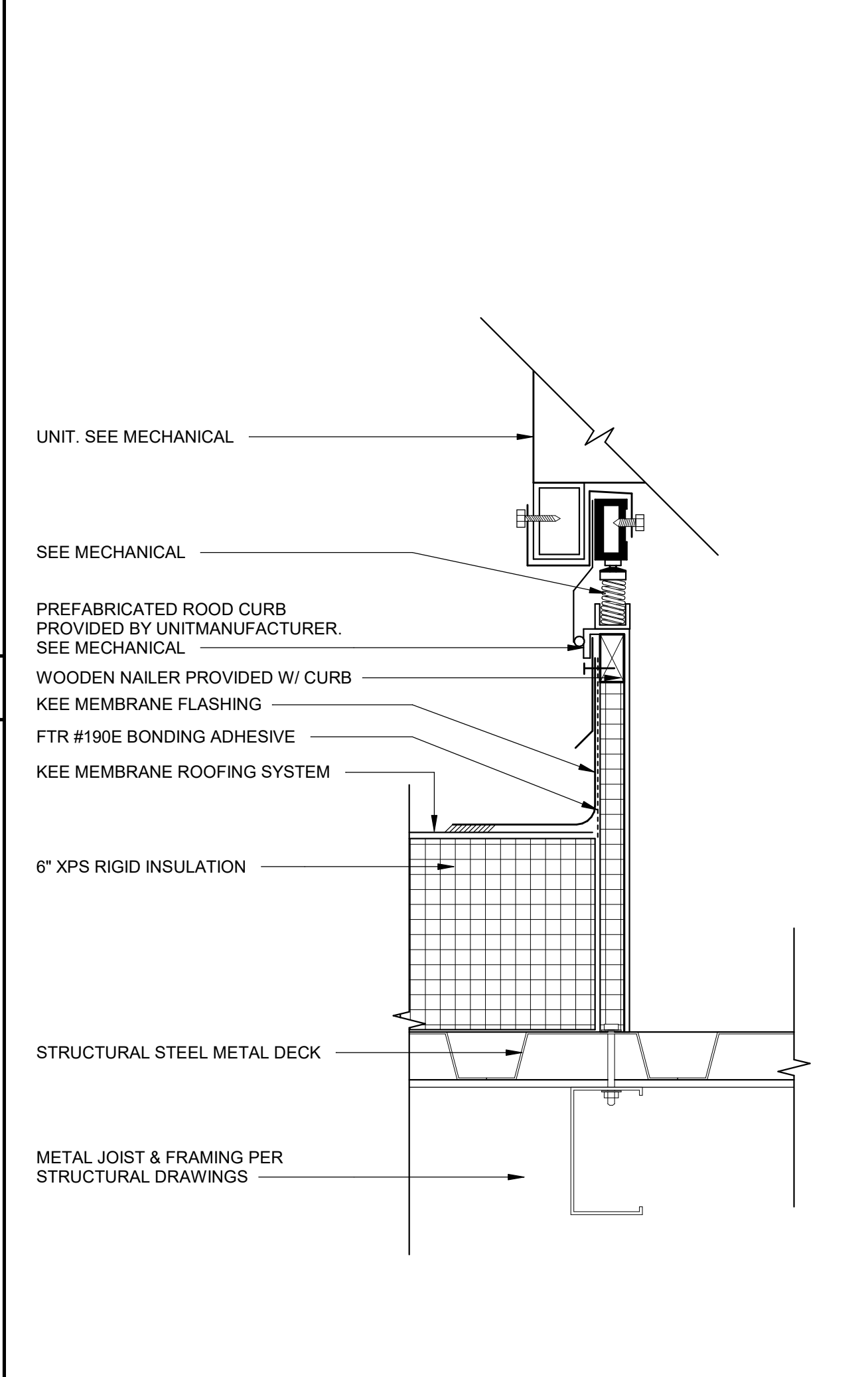
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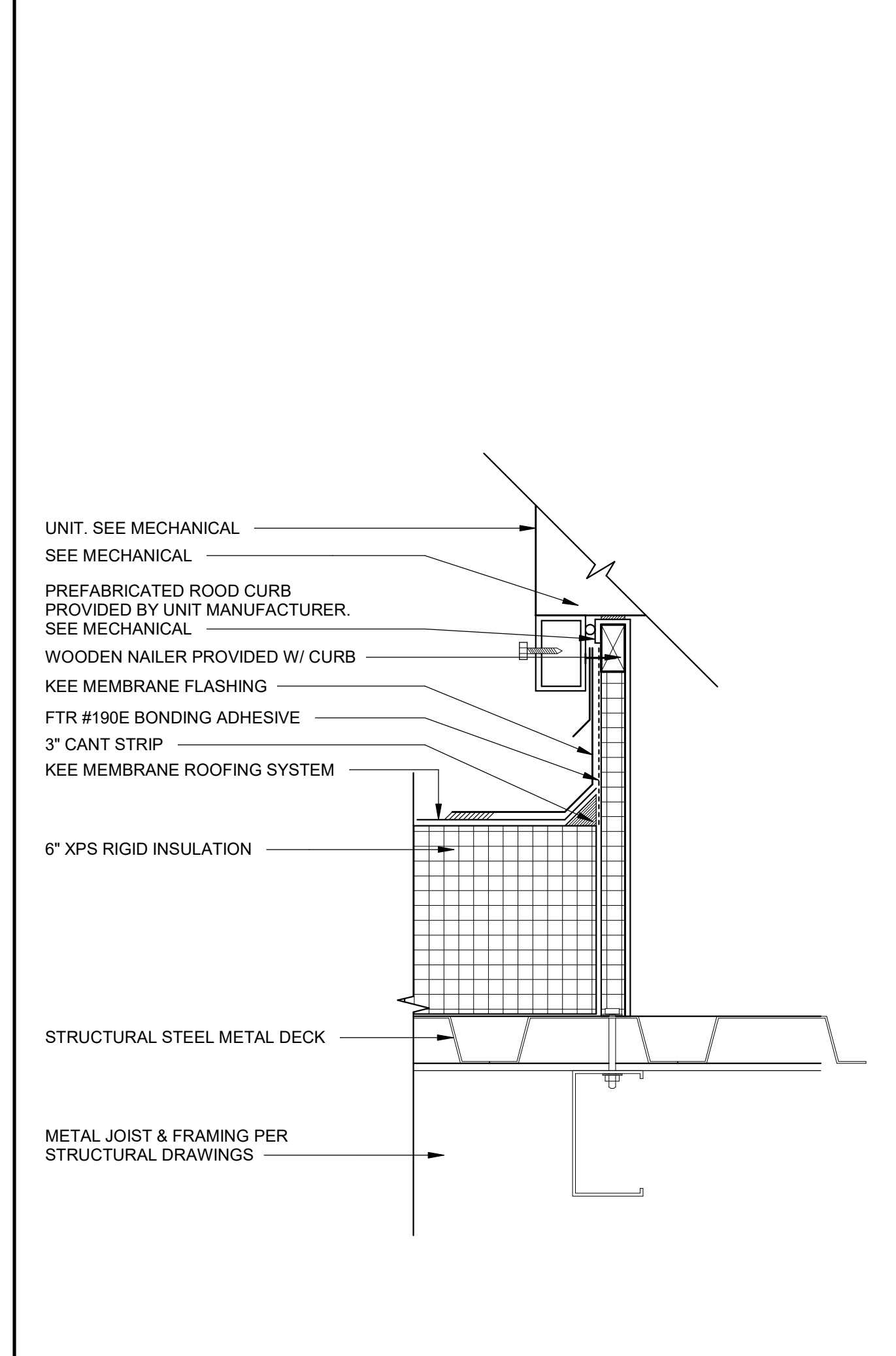
CONDENSING UNIT CURB FLASHING 1 1/2" = 1'-0" 8



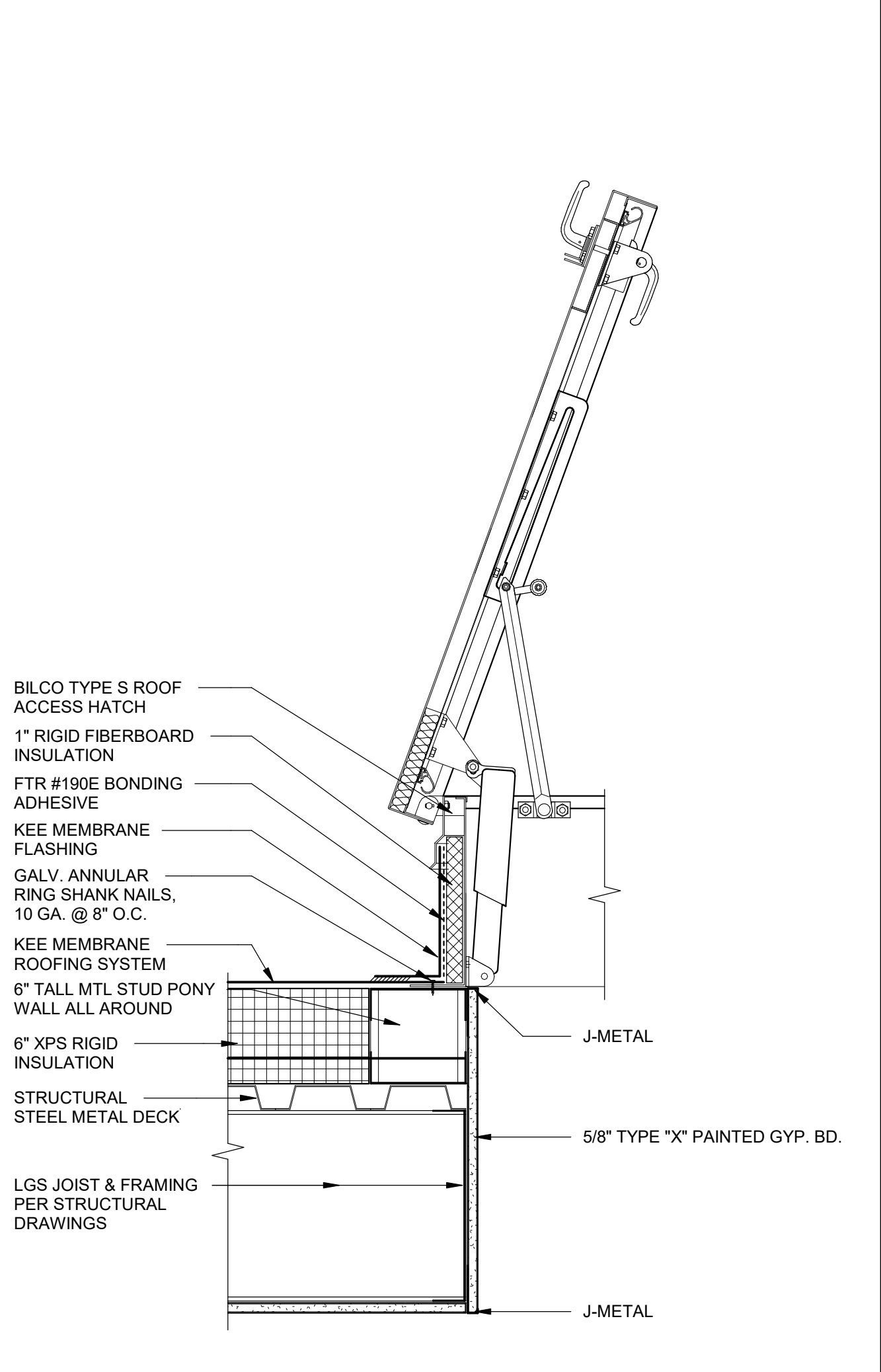
SKYLIGHT CURB FLASHING 1 1/2" = 1'-0" 3



RTU ISOLATION CURB 3" = 1'-0" 15



RTU RIGID CURB FLASHING 3" = 1'-0" 10



ROOF ACCESS HATCH 1 1/2" = 1'-0" 5

AGENCY APPROVAL **DS&J** 03-121912

196 ARCHITECTS

560 HIGUERA STREET, SUITE C
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 San Luis Obispo, CA 93401
 TEL (805) 544-42-69

ARCHITECT STAMP CONSULTANT STAMP

ALICE KROTH
 LICENSED ARCHITECT
 A-141616
 C-22474
 STATE OF CALIFORNIA
 EXPIRES 10-31-25

NO.	DATE	DESCRIPTION
1	April 27, 2022	Addendum 2

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

PROJECT OWNER & TITLE
ORCUTT UNION SCHOOL DISTRICT
 500 Dyer Street
 Orcutt, CA 93455

ORCUTT ACADEMY HS MUR BUILDING
 610 Pinal Avenue
 Orcutt, CA 93455

SHEET TITLE
EXTERIOR DETAILS

DRAWN BY: Author JOB NUMBER: 20179.01
 SHEET NO.
A-702
 DATE: APRIL 5, 2022

PLUMBING LEGEND		
SYMBOL	ABBREV.	DESCRIPTION
		BALL VALVE
	TPV	TRAP PRIMER VALVE
		VALVE IN RISER
	HB	HOSE BIBB
	COTG	CLEANOUT TO GRADE
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
		UNION
		PIPE UP
		PIPE DOWN
		PIPE CONNECTION
		CAPPED/PLUGGED PIPE
		FLOOR DRAIN
	WHA	WATER HAMMER ARRESTOR
	S/W	SOIL OR WASTE BELOW GRADE
	RWL	RAIN WATER LEADER
	RWO	RAIN WATER OVERFLOW
	G	GAS (NATURAL/G) WATER COLUMN
	MPG	MEDIUM PRESSURE GAS (NATURAL/SPS)
	CD	CONDENSATE DRAIN
	V	SANITARY VENT
	CW	COLD WATER
	HW	HOT WATER
	TP	TRAP PRIMER LINE

PLUMBING ABBREVIATIONS			
ABV	ABOVE	IE	INVERT ELEVATION
ADA	AMERICAN DISABILITIES ACT	KW	KILOWATTS
AFF	ABOVE FINISHED FLOOR	LAV	LAVATORY
AG	ABOVE GRADE	LBS	POUNDS
AMP	AMPERAGE	MAX	MAXIMUM
ARCH	ARCHITECT	MBTUH	BTU PER HOUR (THOUSANDS)
BEL	BELOW	MCH	MECHANICAL
BFP	BACKFLOW PREVENTOR	MFR	MANUFACTURE OR MANUFACTURER
BLDG	BUILDING	MIN	MINIMUM
CFH	CUBIC FOOT PER HOUR	(N)	NEW
CI	CAST IRON	NPS	NOMINAL PIPE SIZE
CL	CENTER LINE	NTS	NOT TO SCALE
CONN	CONNECTION	PH	PHASE
CONT	CONTINUE(D)	PP	POLYPROPYLENE
CP	CHROME PLATED	PSI	POUNDS PER SQUARE INCH
CPVC	CHLORINATED POLYVINYL CHLORIDE	RM	ROOM
CY	CYCLES	RPM	REVOLUTIONS PER MINUTE
DFU	DRAINAGE FIXTURE UNITS	RWL	RAIN WATER LEADER
DN	DOWN	RWO	RAIN WATER OVERFLOW
(E)	EXISTING	SOV	SHUT-OFF VALVE
ELEC	ELECTRICAL	TW	TEMPERED WATER
EQPT	EQUIPMENT	TYP	TYPICAL
FLR	FLOOR	UN	UNLESS OTHERWISE NOTED
FR	FROM	V	VENT
FT	FLUSH TANK	VAC	VACUUM
FV	FLUSH VALVE	VTR	VENT THRU ROOF
GA	GAGE OR GAUGE	W	WASTE
GALV	GALVANIZED	W/	WITH
GPC	GALLONS PER CYCLE	W/O	WITHOUT
GPF	GALLONS PER FLUSH	WC	WATER CLOSET
GPM	GALLONS PER MINUTE	WSFU	WATER SUPPLY FIXTURE UNIT
HP	HORSEPOWER	WT	WEIGHT

WATER HEATER SCHEDULE

MARK	MAKE	MODEL	STORAGE CAPACITY (GALLONS)	DIMENSIONS	FULL WEIGHT (POUNDS)	INLET/OUTLET (INCHES)	POWER (VOLTS PH CY KW WATTS)	MBTUH	BRANCH SIZE (INCHES)	FLUE SIZE (INCHES)	REMARKS
WH-1	A.O. SMITH	DEL-10	10	18-1/4"x18"ø	135	3/4"	120 1 60 1.5 - - -	-	-	-	SEE NOTE 1

NOTES:
1. See detail 10/P002

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MIN. BRANCH SIZE (*)				MAKE AND MODEL	FITTINGS	REMARKS
		W	V	CW	HW			
DF-1	ADA DRINKING FOUNTAIN WALL MOUNTED DUAL HEIGHT W/BOTTLE FILL	2	1-1/2	1/2	-	ELKAY E2H20 #VRCTLBWSK 37"x19"x39" VANDAL-RESISTANT BOTTLE FILLING & BI-LEVEL COOLER, STAINLESS STEEL	STOPS AND SUPPLIES	INSTALL PER ADA REQUIREMENTS ELEC. 115V, 1.0 FLA, 370 WATTS 118 LBS.
FD-1	FLOOR DRAIN W/ SQUARE STRAINER & TRAP PRIMER	2	1-1/2	1/2	-	ZURN #Z1155-2NH-VP-8 5" X 5" CAST IRON W/ BRONZE STRAINER	ZURN #Z1022-XL LEAD FREE SANI-GUARD AUTOMATIC TRAP PRIMER	
HB-1	HOSE BIBB WALL MOUNT W/ VACUUM BREAKER	-	-	3/4	-	ACORN #B121CP-LF, CHROME PLATED BRASS	PROVIDE W/LOOSE TEE KEY	
L-1	ADA LAVATORY WALL MOUNT 0.50 GPM, 0.16 GPC BATTERY OPERATED SENSOR	2	1-1/2	1/2	-	ZURN #Z5360, 20" x 18" VITREOUS CHINA, WHITE	CHICAGO #116.606.AB.1 W/GRID STRAINER, STOPS, SUPPLIES, C.P. BRASS "P" TRAP, & ZURN WALL SUPPORT Z1231	INSTALL PER ADA REQUIREMENTS
MS-1	MOP SINK FLOOR MOUNTED W/ VACUUM BREAKER	3	2	3/4	3/4	ZURN #Z5850-D3-RG, 28"x26"x13" ENAMELED CAST IRON	T&S BRASS FAUCET #B-0665-B5TP PROVIDE WITH RIM GUARD AND STRAINER HOSE, MOP HANGER, SS WALL GUARDS	
RD-1	ROOF DRAIN W/ OVERFLOW	3	-	-	-	ZURN #RD2130-3NH, 18.5"x10" SUMP RECEIVER CAST IRON & CI STRAINER		
S-1	ADA SINGLE BOWL SINK COUNTER TOP	2	1-1/2	1/2	-	ELKAY #LRAD01720601, 17-1/2" X20" X6" 18 GA. STAINLESS STEEL	CHICAGO FAUCETS #350-244BCP STRAINER #LK35, STOPS, SUPPLIES & C.P. BRASS "P" TRAP	INSTALL PER ADA REQUIREMENTS
U-1	ADA URINAL WALL MOUNTED 0.725 GPF BATTERY OPERATED SENSOR	2	1-1/2	1-1/4	-	ZURN #Z5738.207, 14 1/2" x 14 1/2" x 22 1/2" VITREOUS CHINA, WHITE	SENSOR FLUSH VALVE: ZURN #ZTR6203-ULF	INSTALL PER ADA REQUIREMENTS PROVIDE CLEANOUT ABOVE FIXTURE CONNECTION
WC-1	ADA WATER CLOSET WALL MOUNTED ELONGATED, 1.28 GPF BATTERY OPERATED SENSOR	4	2	1-1/4	-	ZURN #Z5615.258, 24 1/2" x 14 1/2" x 16 1/2" VITREOUS CHINA, WHITE	SENSOR FLUSH VALVE: ZURN #ZTR6200EV ZURN SEAT #Z5955SS-EL, ZURN #Z1201 OR #Z1202 CARRIER	INSTALL PER ADA REQUIREMENTS PROVIDE CARRIER WITH REAR ANCHOR SUPPORT FOR SINGLE APPLICATIONS LOCATE HANDLE ON WIDE SIDE OF FIXTURE
WC-2	WATER CLOSET WALL MOUNTED ELONGATED, 1.28 GPF BATTERY OPERATED SENSOR	4	2	1-1/4	-	ZURN #Z5615-BWL, 24-3/4" x 14-3/4" x 15" VITREOUS CHINA, WHITE	SENSOR FLUSH VALVE: ZURN #ZTR6200EV ZURN SEAT #Z5955SS-EL, ZURN #Z1201 OR #Z1202 CARRIER	PROVIDE CARRIER WITH REAR ANCHOR SUPPORT FOR SINGLE APPLICATIONS

PLUMBING GENERAL NOTES

- All work shown herein shall comply with the requirements of the following codes:
 - 2019 California Administrative Code (CAC): Part 1, Title 24, California Code of Regulations (CCR)
 - 2019 California Building Code (CBC): Part 2, Title 24 CCR
 - 2019 California Electrical Code (CEC): Part 3, Title 24 CCR
 - 2019 California Mechanical Code (CMC): Part 4, Title 24 CCR
 - 2019 California Plumbing Code (CPC): Part 5, Title 24 CCR
 - 2019 California Energy Code (CEC): Part 6, Title 24 CCR
 - 2019 California Fire Code (CFC): Part 9, Title 24 CCR
 - 2019 California Green Building Standards Code (CALGreen): Part 11, Title 24 CCR
- Contractors are referred to the specifications of the project for more detailed and additional requirements.
- Contractor to complete a "Change of Gas Service Application" and submit the application to the gas service provider prior to construction; and a minimum of 6 months before the service change is required.
- Furnish all labor, materials, transportation, and perform all required operations to provide a complete and operable system, in accordance with the full intent and meaning of the Drawings, Specifications, and per standard trade practices.
- The installation of piping and equipment shall be made in such a manner to clear beams and obstructions. Do not cut into or reduce the size of plates or any load carrying members without approval of the Architect. Check drawings and work of others to prevent interference.
- All plumbing fixtures, fittings and piping shall be "lead-free" per California AB1953 and meet the requirements of ANSI/NSF 61, Section 9.
- All locations of piping and equipment are shown diagrammatically. Adhere to locations as closely as possible. Vary runs or arrangement of piping as required to meet structural and other interferences or as required by Architect.
- Pipe sizes shown on drawings shall be installed as shown. Branch line sizes to fixtures when not indicated shall be per minimum branch line size as indicated on fixture schedule. Equipment and appliance supply piping shall be as indicated on drawings. Contractor shall verify size of equipment or appliance connection and provide reducing fittings to suit.
- Materials exposed within any space being used as a air plenum shall be non combustible or shall have a flame spread index not greater than 25 and a smoke developed index not greater than 50, when tested as a composite product in accordance with one of the following test methods: NFPA 255, method of test of surface burning characteristics of building materials, ASTM E84, surface burning characteristics of building materials, or UL 723, test for surface burning characteristics of building materials.
- No product will be accepted on the job site without prior approval by the Architect. The Contractor shall submit catalog sheets of all plumbing equipment.
- All plumbing fixtures and products are to be verified to be in accordance with District Standards. Contractor to be provided and/or request District Standards to ensure compliance prior to providing product submittals to BMA Mechanical for review.
- All piping materials are to be stored and capped in a clean dry location. All piping installed shall be capped at the end of each work day to prevent dust, dirt or foreign material entering the pipe from the time of rough-in installation until the final connection of the piping to fixtures or equipment.
- Rough-in and/or install plumbing fixtures at heights indicated on plans, or as directed by Architect. If a conflict in fixture location is noted on the drawings, the architectural drawings shall take precedence.
- Provide combustion air to all gas fired equipment per CPC.
- Piping is to be supported by hangers less than 12" from support.

MANDATORY TITLE 24 MEASURES

Service Water Heating Systems

- Service water heating systems and equipment may be installed only if the manufacturer has certified that the system or equipment complies with all the requirements of section 110.3 of the CEC.
- Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use as listed in Table 3, Chapter 50 of the ASHRAE Handbook, HVAC Applications Volume.
- Systems that have a total capacity greater than 167,000 Btu/hr., outlets that require higher than service water temperatures as listed in the ASHRAE Handbook, Applications Volume, shall have separate remote heaters, heat exchangers, or boosters to supply the outlet with higher temperature.
- All hot water piping shall be insulated in accordance with CEC section 120.3.
- Unfired service water heater storage tanks and backup tanks for solar water heating systems shall have either: external insulation with an installed R- value of at least R-12; internal and external insulation with a combined R- value of at least R-16; or sufficient insulation so that the heat loss of the tank surface based on an 80F water-air temperature difference shall be less than 6.5 Btu/hr./sq.ft.

BRACING AND ANCHORAGE

Applicable Code: 2019 CBC

MEP Component Anchorage Note

- All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC, Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapter 13, 26 and 30.
- All permanent equipment and components.
 - Temporary, movable or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
 - Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.
- The following mechanical and electrical components shall be positively attached to the structure, but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:
- 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.
- The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.8, and 2019 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

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 #) #-----

AGENCY APPROVAL DSA # XX-XXXXX



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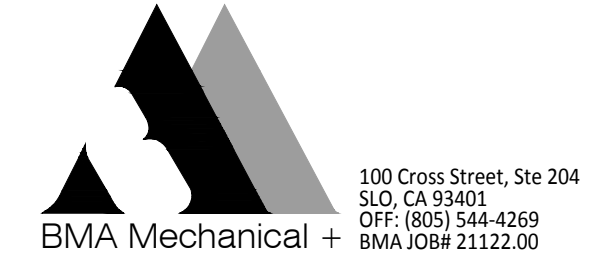
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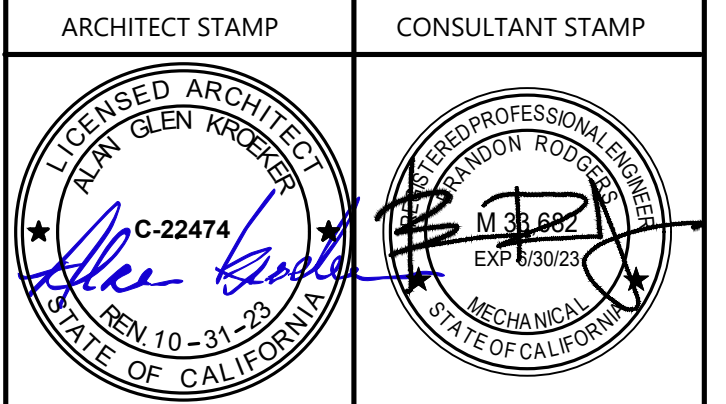
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REVISIONS

NO.	DATE	DESCRIPTION
1	April 27, 2022	ADDENDUM #2

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ORCUTT ACADEMY HS MUR BUILDING
ORCUTT ACADEMY
HIGH SCHOOL
ORCUTT, CA 93455

PLUMBING SHEET INDEX	
P001	PLUMBING NOTES, LEGEND & ABBREVIATIONS
P002	PLUMBING DETAILS
P201	PLUMBING OVERALL FLOOR PLAN
P221	PLUMBING ROOF PLAN
P501	PLUMBING ENLARGED FLOOR PLAN

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PLUMBING DESIGNER	Rick Sawyer	(805) 548-1447	ricks@maslo.com
ENERGY ANALYST	Dustin Lane	(805) 548-1452	dustinl@maslo.com

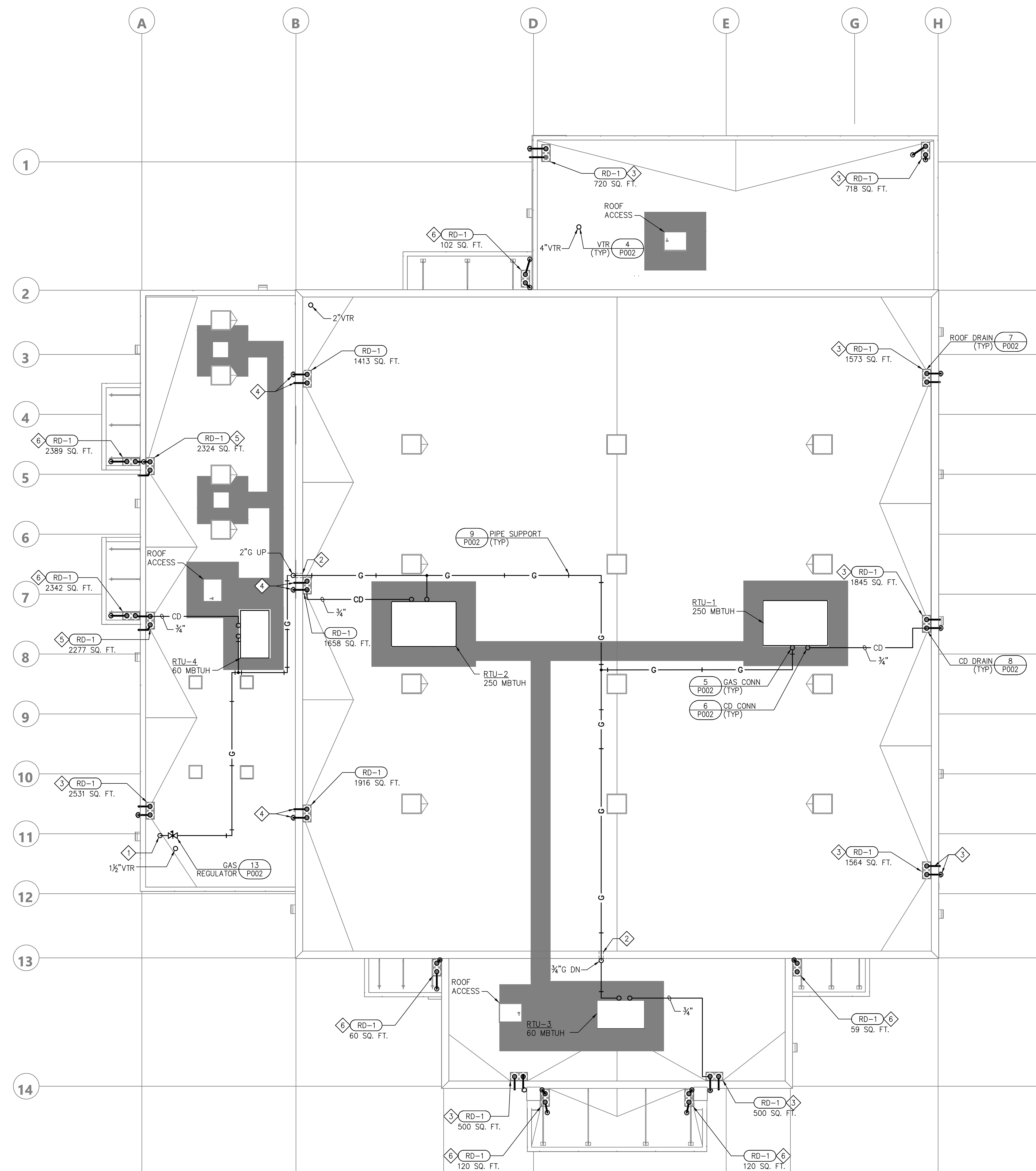
SHEET TITLE
PLUMBING NOTES, LEGEND, SCHEDULES & ABBREVIATIONS

DRAWN BY: DM JOB NUMBER: 20179-01

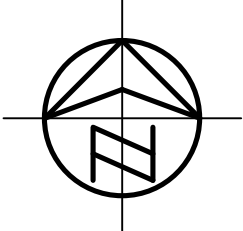
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P001

DATE: MARCH 2, 2022

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



GENERAL NOTES

- Roof drains have been sized per CPC table 1103.1 using a rainfall rate of 2"(m/h) per CPC table D101.1.
- Horizontal rain water piping has been sized per CPC table 1103.2 using a rainfall rate of 2"(m/h) & 1/4"/FT slope
- Roof area served by each roof drain is shown below roof drain callout, number indicates square feet.
- Plumbing vents shall terminate not less than 6" above the roof, nor less than 12" from a vertical surface. Maintain 10'-0" clearance from building air intakes.

REFERENCE NOTES

- 1 2"MPG from below.
- 2 Gas pipe penetration through parapet wall, see detail 15/P002.
- 3 3"RWL down on exterior wall, RWL to underground storm drain, RWL to overflow nozzle, spill to grade.
- 4 3"RWL on 3"RWL down on exterior wall, spill to lower roof.
- 5 3"RWL spill to lower roof, RWL to overflow nozzle, spill to grade.
- 6 3"RWL down on exterior wall; RWL to underground storm drain, 3"RWL spill to grade from under canopy.

SEE GAS RISER DIAGRAM ON SHEET A/P002 FOR GAS PIPE SIZING

AGENCY APPROVAL DSA # XX-XXXXX

19.6
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Professional Engineer Seal
C-22474
M. S. S. S.

REVISIONS

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ORCUTT, CA 93455**

SHEET TITLE
PLUMBING ROOF PLAN

DRAWN BY: JOB NUMBER: 20179-01

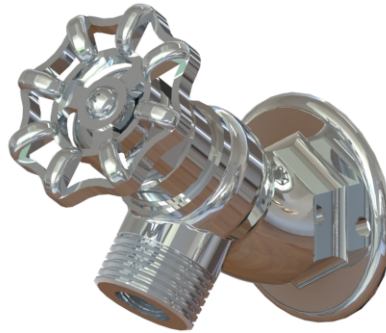
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P221
DATE: MARCH 2, 2022

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Hose & Supply Boxes 8120-LF Series

Hose Valves



8120CP-LF



8125CR-LF

Fixture May Show Some Available Options

Please visit www.acorneng.com for most current specifications.

Acorn Hose Valves are CUPC certified by IAPMO for U.S. and Canada. Hose valves are recommended for installation in indoor and outdoor locations not subject to freezing. Hose valves include a heavy rough brass body, furnished with a lockshield bonnet and removable loose key wheel handle. Valves close with the water pressure and feature a replaceable cartridge which contains all wearing parts including the seat. Inlet is 3/4" NPTI, outlet is 3/4" NPSH. Vacuum breakers are atmospheric type and conform to the requirements of ASSE Standard 1011. Hose valves meets the lead free requirements where the wetted surface of this product contacted by water contains less than 0.25% lead. Check local code authority for vacuum breaker requirements

Installation: The 8120-LF and 8121-LF, horizontally supplied valves have integral wall flanges and both are used indoor and outdoor. 8125-LF and 8126-LF, vertically standpipe valves are normally used in outdoor planting areas and often provided in a rough brass finish.

GUIDE SPECIFICATION

Provide and install Acorn Hose Valves model (specify model number) cartridge - operated hose valve with lock shield bonnet and removable loose key handle. Interior wall hose valves shall be polished chrome finish, exterior valves shall be rough chrome-plated.



Hose & Supply Boxes 8120-LF: Hose Valves

BASE MODEL NUMBER (Must Specify)

HOSE VALVE

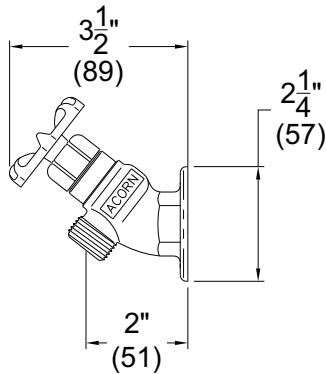
BENT NOSE WITH FLANGE

- 8120-LF Less Vacuum Breaker
- 8120CP-LF Polished Chrome-Plated Less Vacuum Breaker
- 8120CR-LF Rough Chrome-Plated Less Vacuum Breaker
- 8121-LF With Vacuum Breaker
- 8121CP-LF Polished Chrome-Plated With Vacuum Breaker
- 8121CR-LF Rough Chrome-Plated With Vacuum Breaker

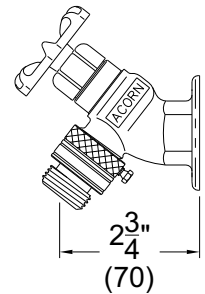
BENT NOSE

- 8125-LF Less Vacuum Breaker
- 8125CP-LF Polished Chrome-Plated Less Vacuum Breaker
- 8125CR-LF Rough Chrome-Plated Less Vacuum Breaker
- 8126-LF With Vacuum Breaker
- 8126CP-LF Polished Chrome-Plated With Vacuum Breaker
- 8126CR-LF Rough Chrome-Plated With Vacuum Breaker

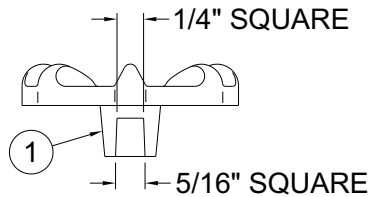
Please visit www.acorneng.com for most current specifications.



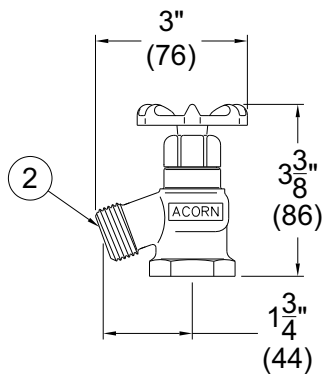
8120-LF



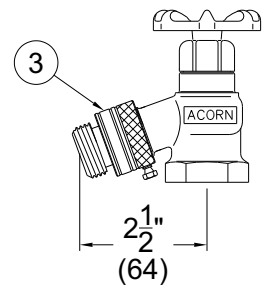
8121-LF



SCALE 2X



8125-LF



8126-LF

NOTES:

1. Wheel Handle (removable).
2. 3/4"-11.5 NHE Hose Connection.
3. Vacuum Breaker.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

<p>Important: Installation instructions and current rough-in are furnished with each fixture. Do not rough in without certified dimensions. Dimensions are subject to manufacturer's tolerance of plus or minus 1/4" and change without notice. Acorn assumes no responsibility for use of void or superseded data. © Copyright 2008 Acorn Engineering Company</p>	
<p style="text-align: center;">Selection Summary</p> <p>Model No. & Option _____</p> <p>Quantity _____</p>	<p style="text-align: center;">Approved for Manufacturing</p> <p>Company _____ Title _____</p> <p>Signature _____ Date _____</p>



Pre-Bid RFIs #1-5

Project: Orcutt Academy HS Multi-Use Building

Project No: 2-2022-02-22-01

Addendum 004

1. Pre-Bid RFI #1: MEP Contractor Pre-Qualification

1.1. The District's website shows prequalification is required for MEP Subcontractors but the Invitation to Bid & Instructions to Bidders does not mention this requirement. Can you please confirm that MEP Subcontractors do not need to be prequalified?

1.1.1. Response: Pre-Qualification of MEP Contractors is not required for this project.

2. Pre-Bid RFI #2: Framing Clarifications

2.1. Regarding the plywood at metal studs (wall sheathing), is the sheathing at metal studs require to be fire retardant treated?

2.1.1. Response: No, wall sheathing does not need to be fire-retardant treated.

2.2. Please confirm that it is acceptable to use ET&F fasteners (See ESR-1777) for all plywood to Metal Stud fastening in lieu #10 screws for this project (Ex: Shear wall Schedule S-201).

2.2.1. Response: It is not acceptable to use ET&F fasteners. No substitution will be allowed for this.

3. Pre-Bid RFI #3: Specification Clarifications

3.1. In the Specs Table of Contents, 07 21 13 Board Insulation is listed. After searching thoroughly, I could not locate the actual spec section in the specs. If you could please provide the specs for 07 21 13 or update the Table of Contents, it would be most appreciated.

3.1.1. Response: Remove specification section 07 21 13 Board Insulation from the Specifications' Table of Contents. Refer to revised detail 1/A-702 from the Bid Set Drawings and specification section 09 24 23 (subsection 2.03) for information on board insulation used. Revised A-702 sheet has been included in Addendum #2.

3.2. Also in the Specs, Section 26 33 23, Central Inverter System, is not listed in the Table of Contents, but is included in the specs. Please confirm whether or not this section is supposed to be used, and if so, please update the Table of Contents to reflect.

3.2.1. Response: Revise page 4 of the Specifications' Table of Contents to include section 26 33 23 Central Inverter System. Revised page has been included in Addendum #2.

3.3. This last one was just something weird that I spotted, not sure if it needs to be corrected or not. In the Specs, Sheet Metal Flashing & Trim - # 07 62 00, has a heading at the top in bold red ink stating that it is "*Master Spec COPY THIS TO ANOTHER FOLDER PRIOR TO MAKING CHANGES – REVIEW AND EDIT ALL RED ITEMS PRIOR TO USING*". I didn't spot any red markings in the body of the specs, but just thought it looked odd.

4/27/2022



3.3.1. Response: Revise page 1 of spec section 07 62 00 and remove language in red bold ink. Revised page has been included in Addendum #2.

4. Pre-Bid RFI #4: Plumbing Clarifications

4.1. Sheet P-201, P-501 HB-1 hose bibs no schedule no spec. Please advise on fixture type.

4.1.1. Response: Added spec for hose bibb (HB-1) to sheet P001. See provided cutsheet. Revised sheet and cutsheet has been provided in Addendum #2

4.2. Plans show RWLs down exterior of building. Specs call for RWL piping to be No Hub Cast Iron. Sheet A-301 sheet note 07.62.B calls schedule 40. Please advise material type.

4.2.1. Response: Revise A-301 keynote 07.62.B to show material type per plumbing specifications (no-hub cast iron). This has been included in Addendum #2.

4.3. Sheet P221 sheet note 3 RWO spill to grade. Sheet A-301 sheet note 07.62.B calls overflow nozzle. Please advise if nozzle is required.

4.3.1. Response: Yes, nozzle is required. Updated Reference notes on Sheet P221. Revised sheet has been included in Addendum #2.

5. Pre-Bid RFI #5: Storefront Clarification

5.1. RE Storefront: Please confirm that exterior storefront is to be Front Glazed per details 1,2,6 & 4 on Sheet A-821 as Specs are inconclusive.

5.1.1. Response: Confirming exterior storefront to be front glazed per details. Revise specification section 08 41 13. Revised page 5 of 08 41 13 has been included in Addendum #2.