



Public Works Department

390 Towne Centre Dr. – Lathrop, CA 95330
Phone (209) 941-7430 – fax (209) 941-7449
www.ci.lathrop.ca.us

ADDENDUM NO. 2 – July 14, 2026

**Lathrop Animal Center
CIP GG 23-11**

This addendum amends the Contract Drawings and Specifications for this project as follows:

1. See Attachment A, City and Architect responses to Requests for Information
2. See Attachment B, Pre-Bid Meeting sign-in sheet.
3. Deadline for RFIs for this Project is 6:00 PM Tuesday, July 14, 2026

When submitting the bid for the project, the Contractor must acknowledge receipt of the addendum in Section 00300, Bid Proposal Forms of the Bidding and Contracting Specifications.

Recommended by: Steven Hollenbeak 7.14.26
Steven Hollenbeak
Assistant Engineer
Date

Approved by: Brad Taylor 7/14/2026
Brad Taylor, PE
Public Works Director / City Engineer
Date



Addendum 2

Project: Lathrop Animal Shelter
Project No: CIP GG 23-11
Date: 07/10/2026

From Architect:

LDA Partners, Inc.
222 Central Court
Stockton, CA 95204

Phone: 209.943.0405
FAX: 209.943.0415
E-mail: ewohle@LDAPartners.com

This Addendum forms a part of the Contract Documents and modifies the original issued June 23, 2026 as noted below.
Acknowledge receipt of this addendum in submittal of bid.

RFI #1

The following items are Specified but not shown. Please confirm if they are needed on this project: Bobrick 2888-individual Toilet Tissue Disp. Bobrick 2221-Individual Seat Cover Disp., Bobrick 270-Individual Sanitary Disposal

RESPONSE: Specification Section 10 28 00-3 has been updated to reflect plans

RFI #2

The following items are shown but not Specified. Please provide a manufacturer & model #(s) for pricing per the following sheet notes: Sheet AA801 Keynotes 10.2, 10.8, 10.25, 10.26, 10.44 and sheet A800 Keynote 10.10

RESPONSE: Specification Section 10 28 00-3 has been updated to include missing items

RFI #3

Sheet A9.00 calls for RS1/4 in Rooms 106 & 107. No RS4 shown Finish Materials Legend. Please clarify.

RESPONSE: Finish Schedule on Sheet A9.00 has been updated.

RFI #4

Sheet A9.00 calls for SV-1 in Room 147. There is no SV-2 shown on materials legend. Please clarify.

RESPONSE: Finish Schedule on Sheet A9.00 has been updated.

RFI #5

Finish Schedule A9.00 calls for SV-1 and SV-2 in Staff Circ. 124. Room Finish Plan A9.01 shows room 124 as hatched as LVT. Please clarify.

RESPONSE: Finish Schedule on Sheet A9.00 has been updated.

RFI #6

Finish Schedule A9.00 calls for SV-1 in Room 126. Room Finish plan A9.01 shows areas 126 hatched as LVT. Please clarify.

RESPONSE: Finish Schedule on Sheet A9.00 has been updated.

RFI #7

Please confirm that the General Contract will be required to have a Payment & Performance bond as well as carry the cost of Builder's Risk insurance.

RESPONSE: 100% Payment and Performance bonds are required, Builder's Risk is not.



RFI #8

Please clarify if subcontractors are required to have the same insurance limits as the Prime Contractor has in the project manual.

RESPONSE: Sub contractors will be required to meet the same minimums set for the prime contractor in Addendum 1.

RFI #9

Will subcontractors be required to carry a 2-year warranty in-lieu of the standard 1-year warranty?

RESPONSE: No, warranty bond provided by the prime contractor must be valid for 1 year.

RFI #10

Will GC be required to have camera trailers or on-site security during and after construction hours?

RESPONSE: Camera trailers and other security personnel and equipment may be deployed at the prime contractor's discretion, but are not required

RFI #11

Does this FSD on Sheet M212 have to be aluminum or SS to line up with the aluminum ductwork?

RESPONSE: Yes, combination fire smoke damper in branch duct serving laundry shall be of aluminum construction per keynote #2.

RFI #12

For the dryer duct on Sheet M212 please clarify the following items:

1. The dryer duct specs call for stainless steel 18g material fully welded, please confirm that is required as the Unimac instruction manual we have located says 24 gauge minimum and does not require stainless steel. It also does not require fully welded joints and duct and allows for use of rivets and or tape for joints.
2. Please confirm how the duct will mate up to the dryer.
3. Note 7 on Sheet M212 calls for access doors on bottom of each straight duct section. These doors are not mentioned in the dryer IOM. Please provide a detail clarifying exactly where the doors must go and how many are needed. Please also provide a product callout for these doors. If the inside of the duct must be smooth to prevent accumulation of lint then it seems the access doors will also need to meet that requirement. Most standard duct access doors are going to have some kind of inner lip or flange that would catch lint.
4. Note 8 on Sheet M212 says to seal space around duct through wall with noncombustible material, and Note 6 says to maintain 6" clearance to all combustibles. Does this mean that where the 12" duct exits the wall we need a 24" round opening stuffed with non-combustibles? Please provide a detail for this condition as it is not clear how this should be installed.
5. Please confirm that the dryer exhaust will be located far enough away from the makeup air for the unit

RESPONSE:

1. Contractor to install per the more stringent requirements between specifications and dryer IOM. Where specifications exceed requirements of dryer IOM, specifications shall be followed.
2. Duct mate to the dryer may be per dryer manufacturer IOM.
3. Per keynote, one access door shall be provided near the bottom of each straight duct section, this will be the two vertical drops to connect to the two dryers. Duct access doors are available with installations flush to inside of ductwork without screws/bolts on interior. Recommend Ruskin ADR & ADF access doors or similar.



4. California mechanical code contains requirements for a 6" clearance from dryer exhaust ducts to combustible materials and a provision that a dryer exhaust duct may pass through a combustible wall where the annular space around the duct is sealed with noncombustible material. Per Capital's interpretation of the code, this does not require 6" of annular space at a wall penetration. Requirement for 6" clearance to combustible materials applies on either side of the wall penetration, not at the penetration.

5. Make-up air louver shifted away from exhaust, new location exceeds 10' from exhaust outlet. See revised mechanical sheet M2.12 and revised architectural sheet A3.12

RFI #13

Per the specifications the insurance requirements are as follows: General Liability limits of \$2M per occurrence / \$4M aggregate and Auto Liability limit of \$2M. Please confirm that an Excess Policy can be used to meet these requirements.

RESPONSE: Excess policy can be used to meet these requirements.

RFI #14

Please provide the height to which you want the ERC-1 Epoxy Wainscot applied to walls?

RESPONSE: Epoxy wainscot is applied per CMU finish elevations provided on sheet A9.05

RFI #15

Under what bid item(s) are irrigation and landscape planting?

RESPONSE: All work required for the Project not listed in separate bid items are considered to be paid under Bid Item 7, Provide all Material, Labor, Equipment and Incidentals for and Construct Animal Center Building and Onsite Civil Works to Project Plans and Specifications.

RFI #16

Spec Section 28 13 00 'Access Control' is written around full system being "Contractor Furnished and Contractor Installed" yet the Single Line Diagram on sheet E6.01 calls out for the Access Control Panels and Power Supplies being "Owner Furnished and Contractor Installed. There is nothing on the riser stating who is furnishing the field devices for the Access Control. Please confirm full scope of responsibility for Access Control. This includes who is to provide Access Control Server, Software, Licensing, Panels, Power Supplies as well as Readers, Door Contacts, Request to Exit Devices Etc.

RESPONSE: City will contract with Bay Alarm for all components. Contractor to provide conduit & wiring per Notes Sheet E5.00. Contractor shall coordinate with Bay Alarm for sequencing and access to site for installation.

RFI #17

The Specification Calls out Genetec for Access Control for the Server and Software with Mercury Hardware for the Access Control Panels. The information on Sheet E6.01 does not specify what the Owner would be providing. Please confirm MFG and models of Provided Equipment if by Owner.

RESPONSE: City will contract with Bay Alarm for all components. Contractor to provide conduit & wiring per Notes Sheet E5.00. Contractor shall coordinate with Bay Alarm for sequencing and access to site for installation.

RFI #18

If Owner is providing the Access Control Equipment, please confirm who will have scope to program system as well as train personnel?

RESPONSE: City will contract with Bay Alarm for all components. Contractor to provide conduit & wiring per Notes Sheet E5.00. Contractor shall coordinate with Bay Alarm for sequencing and access to site for installation.

**RFI #19**

Spec Section 28 23 00 'Video Surveillance' is written around full system being "Contractor Furnished and Contractor Installed", yet the Single Line Diagram on sheet E6.02 calls out the NVR and Client Terminal to be "Owner Furnished and Contractor Installed". There is nothing on the Diagram stating who is furnishing the cameras. Please confirm full scope of responsibility for the Video Surveillance System. This includes who is to provide the Video NVR Rack Server, the Client Terminal, Cisco Switch and Cameras.

RESPONSE: System is Owner furnished and Installed. Contractor to provide conduit & cable. Refer to Notes on Sheet E4.00

RFI #20

The Specification calls out Exacq or Genetec Video Surveillance Software. The Single Line Diagram is calling for Axis Camera Station and NVR. Please confirm what system is to be provided and who will be responsible for programming turnover and training.

RESPONSE: System is Owner furnished and Installed. Contractor to provide conduit & cable. Refer to Notes on Sheet E4.00.

RFI #21

Trying to determine which temperature control contractor to invite onto his project. Spec 23 80 00-11.02D references section 23 06 23; however that section does not exist. What BMS platform does the Owner desire? Do they have a preferred DDC vendor/contractor?

RESPONSE: Controls drawings on sheets M6.00 & M6.01 are based around Siemens platform to integrate with existing City network. City will contract directly with FM Booth to provide. CG to coordinate City's contractor sequencing, and site access for installation.

RFI #22

In regards to doors #140B, 143C, and 143D, please confirm all doors are overhead door model 610.

RESPONSE: Correct. Overhead doors at model 610 per spec 08 33 23

RFI #23

Is there a "Skilled & Trained Workforce" requirement on this project?

RESPONSE: No.

RFI #24

Please provide clarification of Finish Material "ERC-1" called for at locations of walls on the Finish Schedule. There is no spec provided, and spec 09 67 23 Resinous Flooring does not have any info either.

RESPONSE: Epoxy resinous coatings are provided per revised specification sections 09 67 23 & 09 96 56.

RFI #25

The steel specs call for an AISC certified plant. Can this requirement be waived?

RESPONSE: Yes.

RFI #26

I see that the plans call for 2) 12'X10' and 1) 8'X8' coiling door but in the specifications under products B bulletin it mentions security grille doors. Can you please clarify which of the door sizes will be the security grille door and which will be the coiling doors?

RESPONSE: No Security Grille doors are included with the project.

RFI #27

Is the freezer building shown on A1.01 furnished by the owner or GC?

RESPONSE: Furnished and Installed by the Contractor. Basis of Design is included within Addenda 2. Size 10"x12"x10' tall. Contractor shall provide associated foundations.



RFI #28

I just want to confirm that the MD barn referenced on sheet A1.01 is to be included in the contract.

RESPONSE: Correct. Barn is furnished and installed by Contractor

RFI #29

Section 32 31 00 Fences and Gates 2.04 makes reference to wood fencing. Is there any wood fencing? If there is I can't find it.

RESPONSE: There is no wood fencing on the project

RFI #30

Specs reference a soils report: please provide or provide location in bid specs.

RESPONSE: Attached within Addenda 2.

RFI #31

In reviewing the revised insurance requirements from addendum 1 as well as the balance of same in section 00700 Article 5, I don't see any mention of excess or umbrella coverage. Do I understand correctly that in the case where Contractor has less than the required \$2M/\$4M basic GL policy limits Owner will allow Contractor to meet those limits with excess or umbrella liability coverage?

RESPONSE: Excess policy can be used to meet these requirements.

RFI #32

Can you please clarify what insurance minimums, if any Owner will require of subcontractors?

RESPONSE: Sub contractors will be required to meet the same minimums set for the prime contractor in Addendum 1.

RFI #33

Is Builder's Risk insurance required? If not is this something the owner will carry or cover?

RESPONSE: Builder's Risk insurance is not required.

RFI #34

Please provide spec section 08 44 13 – Glazed Aluminum Curtain Walls.

RESPONSE: Attached within Addenda 2

RFI #35

Spec section 08 41 10 calls for 2" x 6" storefront framing. Please confirm that all exterior and interior storefront will be 2" x 4 1/2", center-glazed thermally broken per the details in sheet AD.04.

RESPONSE: Exterior & interior storefront frames shall be 2" x 4 1/2", center-glazed thermally broken.

RFI #36

Spec section 08 41 10 calls for 'Dark Bronze Anodized' finish, but door schedule note #6 in sheet A9.03 calls for 'Clear Anodized' finish. Please confirm finish color.

RESPONSE: All curtain wall and storefront frames shall be Dark Bronze Anodized. Note 6. on Sheet A9.03 has been corrected.

RFI #37

Please confirm if the curtainwall frames will required engineered shop drawings.

RESPONSE: Yes, Curtain wall systems required engineered Shop Drawings.

RFI #38

Please confirm that all interior storefront frames and doors will get 1" 'Clear' insulated glass.

RESPONSE: Yes.



RFI #39

Detail Drawing 8 and 10/ L6.1 says Decomposed Granite to be 3/8" to 1/4" but no color shown on plan and detail drawing. Please advise on the Decomposed Granite Color.

RESPONSE: Color: Tan/ Gold.

RFI #40

The contract drawings (Sheet M6.00) indicate a Siemens building management system. The City of Lathrop Generations Center is currently served by an Alerton BMS so an existing Alerton server, software, infrastructure, operator familiarity, etc... is in place. Would the city accept Alerton as an approved BMS manufacturer for this project?

RESPONSE: No. Controls drawings on sheets M6.00 & M6.01 are based around Siemens platform to integrate with existing City network. City will contract directly with FM Booth to provide. CG to coordinate City's contractor sequencing, and site access for installation.

RFI #41

Are the interior frames to be clear anodized?

RESPONSE: Aluminum frames shall be Dark Bronze Anodized

RFI #42

Specs call for an AISC certified plant. Can this requirement be waived as it has been on other municipality projects?

RESPONSE: Yes.

RFI #43

Will job trailers be required for the IOR, Architect, and non-GC staff?

RESPONSE: No.

RFI #44

Is there a transformer on-site or close by that temporary power can be pulled from?

RESPONSE: Temporary power can be accessed from the water tank site directly adjacent to the Animal Center site.

RFI #45

Spec section 083323 calls for Overhead Corp model 610 "or equal" Cornell is an equal. Will this be acceptable?

RESPONSE: Cornell ESD10 is an acceptable Alternate.

RFI #46

Will the Flag Pole be supplied and installed by the GC?

RESPONSE: Yes, the flagpole shall be furnished and installed by the Contractor.

RFI #47

Per sheet AD.04 a 2" x 4 1/2" Center Set Storefront System is required, however spec 08 41 10, section 2.02 specifies a 2" x 6" system. Please confirm which one is to be used.

RESPONSE: Exterior & interior storefront frames shall be 2" x 4 1/2", center-glazed thermally broken.

RFI #48

Please clarify that there is Curtain Wall system being installed as there are no specifications available .

RESPONSE: Spec 08 44 13 for Glazed Aluminum Curtain Walls has been provided with Addenda 2.

RFI #49

Would "Metal Sales" be an acceptable alternate to "AEP" for the metal roof panels specified in 07 41 13?

RESPONSE: Metal Sales Standing Seam Metal roofing is an acceptable alternate. Gauge requirements shall remain the same.

**RFI #50**

Finish Schedule on sheet A9.00 specifies 9/16" grid for ceiling types CLG-3, 4, 5, 6, and 10 but does not identify the suspension system. Please confirm that the intended suspension system is Armstrong's standard 9/16" Suprafine grid. If another product, please specify.

RESPONSE: Suspension systems shall be 9/16" suprafine grid. Ceiling tiles are per updated finish schedule on Sheet A9.00.

RFI #51

Finish Schedule on A9.00 specifies Armstrong Health Zone for ceiling types CLG-3 and 10. However, "Health Zone" is available in multiple Armstrong product lines (Calla, Optima, and Ultima) each with different appearances, acoustical performance, and cost. Please identify the intended product for ceiling types CLG-3 and 10.

RESPONSE: CLG-3 and CLG-10 have been updated to Ultima Health Zone in the finish schedule Sheet A9.00.

RFI #52

Finish Schedule on A9.00 specifies Armstrong MetalWorks-Diverge Planks with varying widths and lengths. Additional information is required for accurate pricing. Please provide the required plank widths, lengths/depths, and intended pattern/layout for the CLG-8

RESPONSE: A detail indicating the pattern and colors have been provided on Sheet A9.00.

RFI #53

Finish Schedule on A9.00 indicates "varying colors selected by Architect" for ceiling CLG-8. Since finish selection may affect cost, please identify the manufacturer's finish series or for finish category that will be used as the basis of bid.

RESPONSE: A detail indicating the pattern and colors have been provided on Sheet A9.00.

RFI #54

Contract drawings M6.00 indicate a Siemens BMS (building management system). The City of Lathrop's "Generations Center" is currently served by ALERTON BMS so an existing Alerton server, software, and infrastructure would operate with consistency for operators. Is ALERTON an approved equal to the specified Siemens system?

RESPONSE: No. Controls drawings on sheets M6.00 & M6.01 are based around Siemens platform to integrate with existing City network. City will contract directly with FM Booth to provide. CG to coordinate City's contractor sequencing, and site access for installation

RFI #55

Please provide the detail of gravel mulch - 3/4" minus Sonoma Stone as shown on legend sheet L4.3.

RESPONSE: Aggregate is used in place of bark mulch in these areas. Install as you would bark mulch top dressing.

RFI #56

The symbol shown between the fence and sidewalk on Sheet L4.1 indicates 1-1/2" minus crushed aggregate, while the same area is shown as bark mulch on Sheet L4.3. Please clarify which material is intended.

RESPONSE: Install 1- 1/2" stone at this location, per inert groundcover portion of plant schedule. .

RFI #57

Please provide the sod soil material and required depth, if applicable, as indicated in detail 5/L6.1.

RESPONSE: Amended soil depth to be 6" min. Prepare per recommendations in soil agronomy test (to be provided by Contractor). For Bid purposes, minimum preparation shall be to incorporate 4 CY compost per 1,000 SF into suitable native soil using a roto-tiller to blend. Fine grade to conform to grading design. .



RFI #58

Please provide bid items for landscaping, including planting, irrigation, and maintenance.

RESPONSE: Lump sum within the building line item but subcontractor will be required to provide a Schedule of Values for Contract.

RFI #59

Please confirm that reclaimed water warning tape is required only for the mainline throughout the irrigation system per reclaimed water notes.

RESPONSE: Confirmed.

RFI #60

Please confirm that the drip remote control valve kit for the reclaimed water system shall be Rain Bird XCZ-100-PRB-R instead of Rain Bird XCZ 100-PRB-COM.

RESPONSE: Confirmed. All equipment shall be the manufacturer's provided products for use at reclaimed systems, per reclaimed water irrigation system note on L3.1.

RFI #61

The mainline legend on Sheet LO.1 indicates a 1-1/2" mainline; however, the irrigation plans consistently call out a 2" mainline throughout the irrigation system. Please clarify the correct mainline size.

RESPONSE: All mainline to be 2". Modify the dimension provided in the irrigation schedule to reflect 2" mainline size.

RFI #62

The dripline legend on Sheet LO.1 indicates Toro RGP-212-NP with 1 GPH emitters at 12" O.C. However, the RGP-212 model is typically a 0.5 GPH dripline. For a 1.0 GPH dripline with 12" emitter spacing, the model should be RGP-412. Please confirm the correct model.

RESPONSE: Use RGP-212-NP, 0.53 GPH.

RFI #63

Please confirm whether the irrigation sleeve material is required to be PVC Class 200 SDR 21 only and not purple in color, as indicated in the sleeve legend on Sheet LO.1.

RESPONSE: Purple pipe is not required for sleeves, unless otherwise required by the City.

RFI #64

The subcontractor list requires us to provide phone number and email addresses. Instead of including that information on the bid form, can the three lowest bidders be responsible for providing all subcontractor's email addresses and phone numbers within 72 hours?

RESPONSE: This is acceptable.

RFI #65

The legend on Sheet LO.1 identifies the synthetic turf as K9Grass by ForeverLawn; however, Specification Section 321813 identifies SYNLaw as the basis-of-design product. Please clarify the acceptable product. In addition, Detail 6/L6.1 indicates a 1" layer of 1/4" dust/fines over a 3" layer of #8 or #57 aggregate. However, Specification Section 321813, Paragraph 3.01.C requires 4.5" of #8 or #57 aggregate and 1.5" of 1/4" minus fines. Please clarify which requirement governs.

RESPONSE: USE K9Grass. Follow the design provided in spec section 321813.

RFI #66

Please confirm that the irrigation sleeve shall be two times the diameter of the pipe inside, per the Sleeve Legend on Sheet LO.1.

RESPONSE: Confirmed

**RFI #67**

Please provide soil report if any.

RESPONSE: Included with Addenda 2.

RFI #68

"We have a few questions on the HVAC controls. The system description in the plan sheets is somewhat vague, and I don't see anything in the spec for controls. If this can be opened up to other vendors than just "Siemens" then the owner is going to get a more competitive price. Otherwise, they are at the mercy of the local Siemens rep for pricing.

1. Is a Siemens Building Controller required or is an Unbranded JACE Controller acceptable?

RESPONSE: Controls drawings on sheets M6.00 & M6.01 are based around Siemens platform to integrate with existing City network. City will contract directly with FM Booth to provide. CG to coordinate City's contractor sequencing, and site access for installation.

RFI #69

Is it acceptable to provide a branded Tridium Niagara JACE with Open License? The owner would be named the license holder of all software. We assume that the intent is to insure that the installed Niagara products may be completely open for integrations.

RESPONSE: No. Controls drawings on sheets M6.00 & M6.01 are based around Siemens platform to integrate with existing City network. City will contract directly with FM Booth to provide. CG to coordinate City's contractor sequencing, and site access for installation.

RFI #70

Is there a pre-bid substitution form for this project

RESPONSE: Included with Addenda 2.

CLARIFICATIONS:

1. All exterior doors with the exception of storefront doors shall have a lockguard, Trimco 5001,
2. Contractor shall provide within the Base Bid, an allowance for the purchase and installation of 150, cast aluminum letters with a ½" standoff. Size, finish, wording, and font to be determined by the Architect.
3. All Storefront doors shall use a continuous hinge in lieu of pivots.
4. Bidders shall be responsible for providing and installing conduit and pathways for the Video Surveillance and Card Reader Access Control system.
5. Bidders shall provide power for motorized window shades.
6. Bidders shall provide structural support and anchorage for exam lights.
7. Contractor shall provide for in the Base Bid an allowance for the purchase and installation of 240 sf of 1.5" thick, gallery wrapped MDC Zimtra Premium Acoustic Panels, or approved equal, color as selected by architect from Manufacturer's full range., and (20) 2'x4' custom shaped MDC Zimtra Acoustic Ceiling Baffles, or approved equal, color as selected by architect from Manufacturer's full range.
8. Security Alarm System will be provided and installed by City supplier. Contractor to coordinate to allow access at appropriate installation times.

PROJECT PLANS:

The following Project Plan Sheets has been added or revised:

A3.10 - Floor Plan - Area A

A3.12 - Floor Plan - Area C

A4.00 - Reflected Ceiling Plan

A7.12 - Wall Sections

A8.00 - Interior Elevations



A8.01 - Interior Elevations
A9.00 - Finish Schedule
A9.03 - Door Schedule
AD.01 - Wall Details
AD.03 - Roof Details
AD.06 - Ceiling Details
AD.07 - Casework Details
AD.09 - Misc Details
S200 - Overall Ceiling Framing Plan
M2.12 - Mechanical Floor Plan - Area C
FP2.00 - Overall Fire Protection Floor Plan
E1.00 - Site Plan
E8.02 - Site Plan - Photometrics

PROJECT SPECIFICATIONS:

The following Project Specification Sections are added or revised:

Substitution Form

Geotechnical Report by Kazan & Associates Dated February 18, 2026

08 44 13 Glazed Aluminum Curtain Walls

09 67 23 Resinous Flooring

09 96 56 Epoxy Wall Coating

10 28 00 Toilet & Bath Accessories

11 41 21 Walk In Freezer

End of Addendum

DOCUMENT 00 6325

SUBSTITUTION REQUEST FORM

To: **City of Lathrop**

**390 Towne Centre Drive
Lathrop, California 95330**

(209) 941-7438

PROJECT: Lathrop Animal Center Owner Project No: CIP GG 23-11	Contractor:
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Substitution Request By:	Firm:
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Transmittal Record	Attn:	Firm:	Date Sent:	Date Rec'd:	Date Due:
Contractor to Owner					
Contractor to Architect					
Owner / Architect to Consultant					
Architect to Owner Representative					
Owner Representative to Contractor					

We hereby submit for your consideration the following product instead of the specified item for the Project:

Section / Drawing	Article	Specified Item
Proposed Substitution:		

We have (a) attached manufacturer's literature, including complete technical data and laboratory test results, if applicable, (b) attached an explanation of why proposed substitution is a true equivalent to specified item, (c) included complete information on changes to Contract Documents that the proposed substitution will require for its proper installation, and (d) filled in the blanks below:

Contractor to complete questions that follow and certifies to the accuracy of all answers:

A.	Does the substitution affect dimensions shown on Drawings? Yes ___ / No ___. If No, please explain proposed mitigation and why substitution is equivalent to originally specified item:
B.	Will the undersigned pay for changes to the building design, including engineering and detailing costs caused by the requested substitution? Yes ___ / No ___. If No, please state reasons explain why substitution is equivalent to originally specified item:
C.	What effect does the substitution have on other trades? No effect: ___ / Some effect ___. If substitution will affect other trades, please explain the effect and why substitution is equivalent to originally specified item:
D.	Will substitution cause change to Project Schedule, or to critical delivery dates? Add? Shorten? If the substitution will add to schedule dates or affect critical activities, please explain why substitution is equivalent to originally specified item:
E.	Please describe differences between proposed substitution and specified item? Please explain and identify any and all differences, and please explain why substitution is equivalent to originally specified item:
F.	What is the Cost Differential to Contractor in original specified item and proposed substitution including all mark-ups? [If substitution requested prior to Contract execution, skip this question.]
G.	Are Manufacturer's guarantees for the proposed item the same as for item specified? Yes ____; No _____. If No, please explain why substitution is equivalent to originally specified item:

H.	Contractor accepts full responsibility for delays caused by redesign of other items of the Work necessitated by substitution? Yes ___ / No ___. If No, please state reasons and explain why substitution is equivalent to originally specified item:
I.	Contractor states that the function, appearance and quality are equivalent or superior to the specified item? Yes ___ / No ___. If No, please explain why substitution is equivalent to originally specified item:

We certify that the function, appearance, and quality of the proposed substitution are equivalent or superior to those of the specified item, except as we may specifically state otherwise in this request.

Submitted by: _____ Signature: _____

Firm: _____ Date: _____

Address: _____ Phone/ Fax: _____

Remarks: _____

Consultant Response: ☐ Accepted ☐ Not Accepted ☐ Accepted As Noted ☐ Received Too Late	Owner Representative Response: ☐ Accepted ☐ Not Accepted ☐ Accepted As Noted ☐ Received Too Late
Remarks: _____ _____	Remarks: _____ _____
By: _____	By: _____

END OF DOCUMENT

**GEOTECHNICAL ENGINEERING INVESTIGATION
PROPOSED ANIMAL SHELTER
STANFORD CROSSING EXT. AND DOS REIS ROAD
LATHROP, CALIFORNIA**

PROJECT NO. 072-25094
FEBRUARY 18, 2026

Prepared for:

**MR. ERIC WOHLER
LDA PARTNERS
222 CENTRAL COURT
STOCKTON, CALIFORNIA 95204**

Prepared by:

**KRAZAN & ASSOCIATES, INC.
GEOTECHNICAL ENGINEERING DIVISION
448 MITCHELL ROAD, SUITE C
MODESTO, CALIFORNIA 95354
(209) 572-2200**



GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING & INSPECTION

February 18, 2026

KA No. 072-25094

Mr. Eric Wohle
LDA Partners
222 Central Court
Stockton, California 95204

**RE: Geotechnical Engineering Investigation
Proposed Animal Shelter
Stanford Crossing Extension and Dos Reis Road
Lathrop, California**

Dear Mr. Wohle:

In accordance with your request, we have completed a Geotechnical Engineering Investigation for the above-referenced site. The results of our investigation are presented in the attached report.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office at (209) 572-2200.



Respectfully submitted,
KRAZAN & ASSOCIATES, INC.

David R. Jarosz, II
Managing Engineer
RGE No. 2698/RCE No. 60185

DRJ:ht

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07225094 Report (Animal Shelter)

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February 18, 2026

KA Project No. 072-25094

**GEOTECHNICAL ENGINEERING INVESTIGATION
PROPOSED ANIMAL SHELTER
STANFORD CROSSING EXTENSION AND DOS REIS ROAD
LATHROP, CALIFORNIA**

INTRODUCTION

This report presents the results of our Geotechnical Engineering Investigation for the proposed animal shelter to be located on the west side of Stanford Crossing Extension, south of Dos Reis Road in Lathrop, California. Discussions regarding site conditions are presented herein, together with conclusions and recommendations pertaining to site preparation, Engineered Fill, utility trench backfill, drainage and landscaping, foundations, concrete floor slabs and exterior flatwork, retaining walls, soil cement reactivity and pavement design.

A site plan showing the approximate boring locations is presented following the text of this report. A description of the field investigation, boring logs and the boring log legend are presented in Appendix A. Appendix A contains a description of laboratory testing phase of this study; along with laboratory test results. Appendices B and C contain guides to earthwork and pavement specifications. When conflicts in the text of the report occur with the general specifications in the appendices, the recommendations in the text of the report have precedence.

PURPOSE AND SCOPE

This investigation was conducted to evaluate the soil and groundwater conditions at the site, to make geotechnical engineering recommendations for use in design of specific construction elements and to provide criteria for site preparation and Engineered Fill construction.

Our scope of services was outlined in our proposal dated December 3, 2025 (KA Proposal No. P740-25) and included the following:

- A site reconnaissance by a member of our engineering staff to evaluate the surface conditions at the project site.
- A field investigation consisting of drilling 4 borings to depths ranging from approximately 10 to 35 feet for evaluation of the subsurface conditions at the project site.
- Performing laboratory tests on representative soil samples obtained from the borings to evaluate the physical and index properties of the subsurface soils.

- Evaluation of the data obtained from the investigation and an engineering analysis to provide recommendations for use in the project design and preparation of construction specifications.
- Preparation of this report summarizing the results, conclusions, recommendations, and findings of our investigation.

PROPOSED CONSTRUCTION

We understand that design of the proposed development is currently underway; structural load information and other final details pertaining to the structures are unavailable. On a preliminary basis, it is understood that the development will consist of a new animal shelter. It is understood the building will be a single-story structure with a footprint area of approximately 12,000 square feet. It is anticipated the building will utilize concrete slab-on-grade construction with shallow conventional foundations. Footing loads are anticipated to be light to moderate. On-site paved areas and landscaping will be associated with the project.

In the event these structural or grading details are inconsistent with the final design criteria, the Soils Engineer should be notified so that we may update this writing as applicable.

SITE LOCATION, SITE HISTORY AND SITE DESCRIPTION

The site is located on the west side of the Stanford Crossing Extension, approximately 300 feet south of Dos Reis Road in Lathrop, California. The site is predominately surrounded by vacant land and agricultural land. A water tank is located to the south. The San Joaquin River is located to the west.

Based on review of historical aerial photographs, it appears the site was previously utilized for agricultural production. No structures were visible.

Presently, the site is predominately vacant. The site is covered with a dense wild weed/grass growth and the surface soils have a loose consistency. The site is relatively level with no major changes in grade.

GEOLOGIC SETTING

The San Joaquin Valley which includes the Lathrop area, is a topographic and structural basin that is bounded on the east by the Sierra Nevada Mountains and on the west by the Coast Ranges. The Sierra Nevadas, a fault block dipping gently southwestward, is made up of igneous and metamorphic rocks of pre-Tertiary age that comprise the basement complex beneath the Valley. The Coast Ranges contain folded and faulted sedimentary rocks of Mesozoic and Cenozoic age which are similar to those rocks that underlie the Valley at depth and nonconformably overlie the basement complex; gently dipping to nearly horizontal sedimentary rocks of Tertiary and Quaternary age overlie the older rocks. These younger rocks are mostly of continental origin and in the Lathrop area; they were derived from the Sierra Nevadas.

The Coast Ranges evolved as a result of folding, faulting, and accretion of diverse geologic terrains. They are composed chiefly of sedimentary and metamorphic rocks that are sharply deformed into complex structures. They are broken by numerous faults, the San Andreas Fault being the most notable structural feature.

Both the Sierra Nevada and Coast Ranges are geologically young mountain ranges and possess active and potentially active fault zones. Major active faults and fault zones occur at some distance to the east, west, and south of the Lathrop area. The Owens Valley Fault Zone bounds the eastern edge of the Sierra Nevada block and contains both active and potentially active faults.

Portions of the Greenville, Calaveras, Hayward, and Rinconada Faults, which are to the west, are considered potentially active. The San Andreas Fault is possibly the best-known fault and is located about 50 to 60 miles to the west.

There are no active fault traces in the project vicinity. Accordingly, the project area is not within an Earthquake Fault Zone (Special Studies Zone) and will not require a special site investigation by an Engineering Geologist.

Lathrop residents could feel the effects of a large seismic event on one of the nearby active or potentially active fault zones. Lathrop has experienced groundshaking from earthquakes in the historical past. According to the County Seismic Safety Element, groundshaking of VI intensity (Modified Mercalli Scale) was felt in Lathrop from the 1872 Owens Valley Earthquake. This is the largest known earthquake event affecting the Lathrop area.

Secondary hazards from earthquakes include rupture, seiche, landslides, liquefaction, and subsidence. Since there are no known faults within the immediate area, ground rupture from surface faulting should not be a potential problem. Seiche and landslides are not hazards in the area either. In addition, there are no known occurrences of structural or architectural damage due to deep subsidence in the Lathrop area.

FIELD AND LABORATORY INVESTIGATIONS

Subsurface soil conditions were explored by drilling 4 borings to depths ranging from approximately 10 to 35 feet below existing site grade, using a truck-mounted drill rig. In addition, 2 bulk subgrade samples were obtained from the site for laboratory R-value testing. Furthermore, 1 percolation test was conducted on the site at a depth of approximately 4 feet. The approximate boring, bulk sample and percolation test locations are shown on the site plan. During drilling operations, penetration tests were performed at regular intervals to evaluate the soil consistency, obtain information regarding the engineering properties of the subsoils and to retain soil samples for laboratory testing. The soils encountered were continuously examined and visually classified in accordance with the Unified Soil Classification System. A more detailed description of the field investigation is presented in Appendix A.

Laboratory tests were performed on selected soil samples to evaluate their physical characteristics and engineering properties. The laboratory-testing program was formulated with emphasis on the evaluation of natural moisture, density, gradation, shear strength, consolidation potential, expansion potential, R-

value and plasticity of the materials encountered. In addition, chemical tests were performed to evaluate the soil-cement reactivity. Details of the laboratory test program and the results of laboratory test are summarized in Appendix A. This information, along with the field observations, was used to prepare the final boring logs in Appendix A.

SOIL PROFILE AND SUBSURFACE CONDITIONS

Based on our findings, the subsurface conditions encountered appear typical of those found in the geologic region of the site. In general, the surface soils consisted of approximately 6 to 12 inches of very loose silty sand/sandy silt with clay, clayey sand and clayey sand/sandy clay. These soils are disturbed, have low strength characteristics and are highly compressible when saturated.

Below the loose surface soils, approximately 2½ to 3½ feet of medium dense clayey sand/sandy clay, clayey sand and silty sand/sandy silt were encountered. Field and laboratory tests suggest that these soils are moderately strong and slightly compressible. Penetration resistance ranged from 17 to 24 blows per foot. Dry densities ranged from 113 to 118 pcf. A representative soil sample consolidated approximately 1½ percent under a 2 ksf load when saturated. A representative soil sample had an angle of internal friction of 34 degrees. Representative soil samples had expansion indices of 18 and 19.

Below 3½ to 4½ feet, predominately loose to very dense silty sand, sandy silt, clayey sandy silt, silty sand/sandy silt and sand or firm to very stiff silty clay were encountered. Penetration resistance ranged from 4 to 100 blows per foot. Dry densities ranged from 88 to 108 pcf. A representative soil sample consolidated approximately 2½ percent under a 2 ksf load when saturated. These soils had similar strength characteristics as the upper soils and extended to the depth of our borings.

For additional information about the soils encountered, please refer to the logs of borings in Appendix A.

PERCOLATION TESTING

One percolation test was performed on the site. The percolation test was performed at a depth of 4 feet. The test was conducted in accordance with the criteria set in the "Manual of Septic Tank Practice" published by the Department of Health, Education, and Welfare. The test was performed within the project site to represent the anticipated sewage disposal areas. Results of the test are as follows:

Test No.	Depth (feet)	Percolation Rate (min/inch)	Soil Type
P1	4	60	Silty Sand (SM)

The percolation test indicates that the soils tested have fair absorption characteristics. The percolation rates given are based on 1 inch of fall within a 6-inch diameter hole with a 6- to 12-inch head of water. These values do not include a factory of safety.

GROUNDWATER

Test boring locations were checked for the presence of groundwater during and immediately following the drilling operations. Free groundwater was encountered at a depth of approximately 9 feet during our subsurface investigation.

It should be recognized that water table elevations may fluctuate with time, being dependent upon seasonal precipitation, irrigation, land use and climatic conditions as well as other factors. Therefore, water level observations at the time of the field investigation may vary from those encountered during the construction phase of the project. The evaluation of such factors is beyond the scope of this report.

CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of our field and laboratory investigations, along with previous geotechnical experience in the project area, the following is a summary of our evaluations, conclusions, and recommendations.

Administrative Summary

In brief, the subject site and soil conditions, with the exception of the loose surface soils and previous development, appear to be conducive to the development of the project. The surface soils have a loose consistency. These soils are disturbed, have low strength characteristics and are highly compressible when saturated. Accordingly, it is recommended that the surface soils be recompacted. This compaction effort should stabilize the surface soils and locate any unsuitable or pliant areas not found during our field investigation.

Fill material was not encountered in our borings. However, fill may be present between and beyond our boring locations. The extent of fill material was determined based on limited test borings and visual observation. Verification of the extent of fill should be determined during site grading. It is recommended that fill soils which have not been properly compacted and certified be excavated and stockpiled so that the native soils can be prepared properly. It is anticipated the fill material will be suitable for reuse as Engineered Fill, provided it is cleansed of excessive organics and debris. However, supplemental testing would be required to verify its suitability for re-use as non-expansive Engineered Fill.

The site was previously utilized as agricultural land. Associated with this development may be buried structures, such as utility lines and irrigation lines that extend into the site. Any buried structures, including utilities or loosely backfilled excavations, encountered during construction should be properly removed and the resulting excavations backfilled with Engineered Fill. It is suspected that demolition activities will disturb the upper soils. After demolition activities, it is recommended that these disturbed soils be removed and/or recompacted. This compaction effort should stabilize the upper soils and locate any unsuitable or pliant areas not found during our field investigation.

Sandy soil conditions were encountered at the site. These cohesionless soils have a tendency to cave in trench wall excavations. Shoring or sloping back trench sidewalls may be required within these sandy soils.

After completion of the recommended site preparation, the site should be suitable for shallow footing support. The proposed structure footings may be designed utilizing an allowable bearing pressure of 2,500 psf for dead-plus-live loads. Footings should have a minimum embedment of 18 inches.

Groundwater Influence on Structures/Construction

During our recent field investigation, groundwater was encountered at approximately 9 feet below existing site grade. Therefore, dewatering and/or waterproofing may be required should structures or excavations extend below this depth. If groundwater is encountered, our firm should be consulted prior to dewatering the site. Installation of a standpipe piezometer is suggested prior to construction should groundwater levels be a concern.

In addition to the groundwater level, if earthwork is performed during or soon after periods of precipitation, the subgrade soils may become saturated, “pump,” or not respond to densification techniques. Typical remedial measures include: discing and aerating the soil during dry weather; mixing the soil with dryer materials; removing and replacing the soil with an approved fill material; or mixing the soil with an approved lime or cement product. Our firm should be consulted prior to implementing remedial measures to observe the unstable subgrade conditions and provide appropriate recommendations.

Site Preparation

General site clearing should include removal of vegetation; existing utilities; concrete structures including foundations; basement walls and floors; existing stockpiled soil; trees and associated root systems; rubble; rubbish; and any loose and/or saturated materials. Site stripping should extend to a minimum depth of 2 to 4 inches, or until all organics in excess of 3 percent by volume are removed. Deeper stripping may be required in localized areas. These materials will not be suitable for use as Engineered Fill. However, stripped topsoil may be stockpiled and reused in landscape or non-structural areas.

Fill material was not encountered in our borings. However, fill may be present between and beyond our boring locations. The extent of fill material was determined based on limited test borings and visual observation. Verification of the extent of fill should be determined during site grading. It is recommended that fill soils which have not been properly compacted and certified be excavated and stockpiled so that the native soils can be prepared properly. It is anticipated the fill material will be suitable for reuse as Engineered Fill, provided it is cleansed of excessive organics and debris. However, supplemental testing would be required to verify its suitability for re-use as non-expansive Engineered Fill.

The site was previously utilized as agricultural land. Associated with this development may be buried structures, such as utility lines and irrigation lines, that extend into the proposed building site. Any buried structures, including utilities or loosely backfilled excavations, encountered during construction should be properly removed and the resulting excavations backfilled. It is suspected that demolition activities will disturb the upper soils. After demolition activities, it is recommended that these disturbed soils be removed and/or recompacted. Excavations, depressions, or soft and pliant areas extending below planned finished subgrade levels should be cleaned to firm, undisturbed soil and backfilled with Engineered Fill. In general, any septic tanks, debris pits, cesspools, or similar structures should be entirely removed. Concrete footings should be removed to an equivalent depth of at least 3 feet below proposed footing elevations or as recommended by the Soils Engineer. Any other buried structures should be removed in accordance with the recommendations of the Soils Engineer. Resulting excavations should be backfilled with Engineered Fill.

Following stripping, fill removal operations and demolition activities, the exposed subgrade within proposed building areas should be excavated to a depth of at least 24 inches, worked until uniform and free from large clods, moisture-conditioned as necessary, and recompacted to a minimum of 90 percent of maximum density based on ASTM Test Method D1557. In addition, footings should be supported by a minimum of 12 inches of Engineered Fill. Limits of recompaction should extend 5 feet beyond structural elements. Prior to backfilling, the bottom of the excavation should be proof-rolled and observed by Krazan & Associates, Inc. to verify stability. Soft or pliant areas should be excavated to firm native ground.

Following stripping, fill removal operations and demolition activities, the exposed subgrade within proposed exterior flatwork and pavement areas should be excavated/scarified to a depth of at least 12 inches, worked until uniform and free from large clods, moisture-conditioned as necessary, and recompacted to a minimum of 90 percent of maximum density based on ASTM Test Method D1557. Limits of recompaction should extend a minimum of 2 feet beyond flatwork and pavements.

It is recommended that any uncertified fill material encountered within pavement areas be removed and/or recompacted. The fill material should be moisture-conditioned to near optimum moisture and recompacted to a minimum of 90 percent of maximum density based on ASTM Test Method D1557. As an alternative, the Owner may elect not to recompact the existing fill within paved areas. However, the Owner should be aware that the paved areas may settle which may require annual maintenance. At a minimum, it is recommended that the upper 12 inches of subgrade soil be moisture-conditioned to a minimum of 2 percent above optimum moisture content and recompacted to a minimum of 90 percent of maximum density based on ASTM Test Method D1557.

The upper soils, during wet winter months, become very moist due to the absorptive characteristics of the soil. Earthwork operations performed during winter months may encounter very moist unstable soils, which may require removal to grade a stable building foundation. Project site winterization consisting of placement of aggregate base and protecting exposed soils during the construction phase should be performed.

A representative of our firm should be present during all site clearing and grading operations to test and observe earthwork construction. This testing and observation is an integral part of our service as acceptance of earthwork construction is dependent upon compaction of the material and the stability of the material. The Soils Engineer may reject any material that does not meet compaction and stability requirements. Further recommendations of this report are predicated upon the assumption that earthwork construction will conform to recommendations set forth in this section and the Engineered Fill section.

Engineered Fill

The on-site, upper native soils predominately consist of clayey sand, silty sand/sandy silt with clay and clayey sand/sandy clay. Preliminary testing indicates these soils will be suitable for reuse as Engineered Fill, provided they are cleansed of excessive organics and debris. Clayey soils with an expansion index greater than 20 will not be suitable for reuse as Engineered Fill within the upper 12 inches of soil supporting slab-on-grade and exterior flatwork areas. The clayey soils will be suitable for use as General Engineered Fill, provided they are placed in pavement areas or a minimum of 12 inches below finished pad grade in the areas of proposed slabs-on-grade and exterior flatwork. It is recommended that additional testing be performed on the on-site soils during construction to evaluate the physical and index properties prior to reuse as Engineered Fill.

The preferred materials specified for Engineered Fill are suitable for most applications with the exception of exposure to erosion. Project site winterization and protection of exposed soils during the construction phase should be the sole responsibility of the Contractor, since he has complete control of the project site at that time.

Imported Fill should consist of a well-graded, slightly cohesive, fine silty sand or sandy silt, with relatively impervious characteristics when compacted. This material should be approved by the Soils Engineer prior to use and should typically possess the following characteristics:

Percent Passing No. 200 Sieve	20 to 50
Plasticity Index	10 maximum
UBC Standard 29-2 Expansion Index	15 maximum

Fill soils should be placed in lifts approximately 6 inches thick, moisture-conditioned as necessary, and compacted to achieve at least 90 percent of maximum density based on ASTM D1557. Additional lifts should not be placed if the previous lift did not meet the required dry density or if soil conditions are not stable.

Drainage and Landscaping

The ground surface should slope away from building pad and pavement areas toward appropriate drop inlets or other surface drainage devices. In accordance with Section 1804 of the 2025 California Building Code, it is recommended that the ground surface adjacent to foundations be sloped a minimum

of 5 percent for a minimum distance of 10 feet away from structures, or to an approved alternative means of drainage conveyance. Swales used for conveyance of drainage and located within 10 feet of foundations should be sloped a minimum of 2 percent. Impervious surfaces, such as pavement and exterior concrete flatwork, within 10 feet of building foundations should be sloped a minimum of 1 percent away from the structure. Drainage gradients should be maintained to carry all surface water to collection facilities and off-site. These grades should be maintained for the life of the project.

Slots or weep holes should be placed in drop inlets or other surface drainage devices in pavement areas to allow free drainage of adjoining base course materials. Cutoff walls should be installed at pavement edges adjacent to vehicular traffic areas; these walls should extend to a minimum depth of 12 inches below pavement subgrades to limit the amount of seepage water that can infiltrate the pavements. Where cutoff walls are undesirable, subgrade drains can be constructed to transport excess water away from planters to drainage interceptors. If cutoff walls can be successfully used at the site, construction of subgrade drains is considered unnecessary.

Utility Trench Backfill

Utility trenches should be excavated according to accepted engineering practice following OSHA (Occupational Safety and Health Administration) standards by a Contractor experienced in such work. The responsibility for the safety of open trenches should be borne by the Contractor. Traffic and vibration adjacent to trench walls should be reduced and cyclic wetting and drying of excavation side slopes should be avoided. Depending upon the location and depth of some utility trenches, groundwater flow into open excavations could be experienced, especially during or shortly following periods of precipitation.

Sandy soil conditions were encountered at the site. These cohesionless soils have a tendency to cave in trench wall excavations. Shoring or sloping back trench sidewalls may be required within these sandy soils.

Utility trench backfill placed in or adjacent to buildings and exterior slabs should be compacted to at least 90 percent of maximum density based on ASTM Test Method D1557. The utility trench backfill placed in pavement areas should be compacted to at least 90 percent of maximum density based on ASTM Test Method D1557. Pipe bedding should be in accordance with pipe manufacturer's recommendations.

The Contractor is responsible for removing all water sensitive soils from the trench regardless of the backfill location and compaction requirements. The Contractor should use appropriate equipment and methods to avoid damage to the utilities and/or structures during fill placement and compaction.

Foundations

The proposed structures may be supported on a shallow foundation system bearing on a minimum of 12 inches of Engineered Fill. Spread and continuous footings can be designed for the following maximum allowable soil bearing pressures:

Load	Allowable Loading
Dead Load Only	1,875 psf
Dead-Plus-Live Load	2,500 psf
Total Load, including wind or seismic loads	3,325 psf

The footings should have a minimum depth of 18 inches below pad subgrade (soil grade) or adjacent exterior grade, whichever is lower. Footings should have a minimum width of 12 inches, regardless of load.

The footing excavations should not be allowed to dry out any time prior to pouring concrete. It is recommended that footings be reinforced by at least one No. 4 reinforcing bar in both top and bottom.

The total movement is not expected to exceed 1 inch. Differential movement should be less than $\frac{1}{2}$ inch. Most of the settlement is expected to occur during construction as the loads are applied. However, additional post-construction settlement may occur if the foundation soils are flooded or saturated.

Resistance to lateral footing displacement can be computed using an allowable friction factor of 0.35 acting between the base of foundations and the supporting subgrade. Lateral resistance for footings can alternatively be developed using an allowable equivalent fluid passive pressure of 300 pounds per cubic foot acting against the appropriate vertical footing faces. The frictional and passive resistance of the soil may be combined without reduction in determining the total lateral resistance. A $\frac{1}{3}$ increase in the above value may be used for short duration, wind, or seismic loads.

Floor Slabs and Exterior Flatwork

In areas that will utilize moisture-sensitive floor coverings, concrete slab-on-grade floors should be underlain by a water vapor retarder. The water vapor retarder should be installed in accordance with accepted engineering practice. The water vapor retarder should consist of a vapor retarder sheeting underlain by a minimum of 3 inches of compacted, clean, gravel of $\frac{3}{4}$ -inch maximum size. To aide in concrete curing an optional 2 to 4 inches of granular fill may be placed on top of the vapor retarder. The granular fill should consist of damp clean sand with at least 10 to 30 percent of the sand passing the 100 sieve. The sand should be free of clay, silt, or organic material. Rock dust which is manufactured sand from rock crushing operations is typically suitable for the granular fill. This granular fill material should be compacted.

The floor slab should be reinforced at a minimum with #3 reinforcement bars at 18 inches on-center each way within the middle one-third. Thicker floor slabs with increased concrete strength and reinforcement should be designed wherever heavy concentrated loads, heavy equipment, or machinery is anticipated.

The exterior floors should be poured separately in order to act independently of the walls and foundation system. All fills required to bring the building pads to grade should be Engineered Fills.

Moisture within the structure may be derived from water vapors, which were transformed from the moisture within the soils. This moisture vapor can travel through the vapor membrane and penetrate the slab-on-grade. This moisture vapor penetration can affect floor coverings and produce mold and mildew in the structure. To reduce moisture vapor intrusion, it is recommended that a vapor retarder be installed. It is recommended that the utility trenches within the structure be compacted, as specified in our report, to reduce the transmission of moisture through the utility trench backfill. Special attention to the immediate drainage and irrigation around the building is recommended. Positive drainage should be established away from the structure and should be maintained throughout the life of the structure. Ponding of water should not be allowed adjacent to the structure. Over-irrigation within landscaped areas adjacent to the structure should not be performed. In addition, ventilation of the structure (i.e. ventilation fans) is recommended to reduce the accumulation of interior moisture.

Lateral Earth Pressures and Retaining Walls

Walls retaining horizontal backfill and capable of deflecting a minimum of 0.1 percent of its height at the top may be designed using an equivalent fluid active pressure of 40 pounds per square foot per foot of depth. Walls incapable of this deflection or are fully constrained walls against deflection may be designed for an equivalent fluid at-rest pressure of 60 pounds per square foot per foot of depth. Expansive soils should not be used for backfill against walls. The wedge of non-expansive backfill material should extend from the bottom of each retaining wall outward and upward at a slope of 2:1 (horizontal to vertical) or flatter. The stated lateral earth pressures do not include the effects of hydrostatic water pressures generated by infiltrating surface water that may accumulate behind the retaining walls; or loads imposed by construction equipment, foundations, or roadways.

Retaining and/or below grade walls should be drained with either perforated pipe encased in free-draining gravel or a prefabricated drainage system. The gravel zone should have a minimum width of 12 inches and should extend upward to within 12 inches of the top of the wall. The upper 12 inches of backfill should consist of native soils, concrete, asphaltic concrete, or other suitable backfill to reduce surface drainage into the wall drain system. The aggregate should conform to Class 2 permeable materials graded in accordance with CalTrans Standard Specifications (2024). Prefabricated drainage systems, such as Miradrain®, Enkadrain®, or an equivalent substitute, are acceptable alternatives in lieu of gravel, provided they are installed in accordance with the manufacturer's recommendations. If a prefabricated drainage system is proposed, our firm should review the system for final acceptance prior to installation.

Drainage pipes should be placed with perforations down and should discharge in a non-erosive manner away from foundations and other improvements. The pipes should be placed no higher than 6 inches above the heel of the wall, in the center line of the drainage blanket and should have a minimum diameter of four inches. Collector pipes may be either slotted or perforated. Slots should be no wider than 1/8 inch in diameter, while perforations should be no more than 1/4 inch in diameter. If retaining walls are less than 6 feet in height, the perforated pipe may be omitted in lieu of weep holes on 4 feet maximum spacing. The weep holes should consist of 4-inch diameter holes (concrete walls) or unmortared head joints (masonry walls) and not be higher than 18 inches above the lowest adjacent

grade. Two 8-inch square overlapping patches of geotextile fabric (conforming to CalTrans Standard Specifications for "edge drains") should be affixed to the rear wall opening of each weep hole to retard soil piping.

During grading and backfilling operations adjacent to any walls, heavy equipment should not be allowed to operate within a lateral distance of 5 feet from the wall, or within a lateral distance equal to the wall height, whichever is greater, to avoid developing excessive lateral pressures. Within this zone, only hand-operated equipment ("whackers," vibratory plates, or pneumatic compactors) should be used to compact the backfill soils.

R-Value Test Results and Pavement Design

Two subgrade soil samples were obtained from the project site for R-value testing at the locations shown on the attached site plan. The samples were tested in accordance with the State of California Materials Manual Test Designation 301. Results of the tests are as follows:

Sample	Depth	Description	R-Value at Equilibrium
1	12-24"	Clayey Sand (SC) w/ gravel	30
2	12-24"	Clayey Sand (SC) w/ gravel	36

The test results are moderate and indicate fair subgrade support characteristics under dynamic traffic loads. The following table shows the recommended pavement sections for various traffic indices.

Traffic Index	Asphaltic Concrete	Class II Aggregate Base*	Compacted Subgrade**
4.0	2.0"	5.0"	12.0"
4.5	2.5"	5.0"	12.0"
5.0	2.5"	6.5"	12.0"
5.5	3.0"	6.5"	12.0"
6.0	3.0"	8.5"	12.0"
6.5	3.5"	8.5"	12.0"
7.0	4.0"	9.5"	12.0"
7.5	4.0"	10.5"	12.0"

* 95% compaction based on ASTM Test Method D1557 or CAL 216

** 90% compaction based on ASTM Test Method D1557 or CAL 216

If traffic indices are not available, an estimated (typical value) index of 4.5 may be used for light automobile traffic and an index of 7.0 may be used for light truck traffic.

The following recommendations are for light-duty and heavy-duty Portland Cement Concrete pavement sections.

**PORTLAND CEMENT PAVEMENT
LIGHT DUTY**

Traffic Index	Portland Cement Concrete***	Class II Aggregate Base*	Compacted Subgrade**
4.5	5.0"	4.0"	12.0"

HEAVY DUTY

Traffic Index	Portland Cement Concrete***	Class II Aggregate Base*	Compacted Subgrade**
7.0	6.5"	4.0"	12.0"

* 95% compaction based on ASTM Test Method D1557 or CAL 216

** 90% compaction based on ASTM Test Method D1557 or CAL 216

***Minimum compressive strength of 3000 psi

It is recommended that any uncertified fill material encountered within pavement areas be removed and/or recompact. The fill material should be moisture-conditioned to near optimum moisture and recompact to a minimum of 90 percent of maximum density based on ASTM Test Method D1557. As an alternative, the Owner may elect not to recompact the existing fill within paved areas. However, the Owner should be aware that the paved areas may settle which may require annual maintenance. At a minimum, it is recommended that the upper 12 inches of subgrade soil be moisture-conditioned to a minimum of 2 percent above optimum moisture content and recompact to a minimum of 90 percent of maximum density based on ASTM Test Method D1557.

Seismic Parameters – 2025 California Building Code

The Site Class per Table 20.2-1 and Section 20.2 of ASCE 7-22 is based upon the site soil conditions. It is our opinion that a Site Class D is most consistent with the subject site soil conditions. For seismic design of the structures based on the seismic provisions of the 2025 CBC, we recommend the following parameters:

Seismic Item	Value	CBC Reference
Site Class	D	Table 20.2.1
S_s	0.98	Section 11.4.3
S_{MS}	1.32	Section 11.4.3
S_{DS}	0.88	Section 11.4.1
S_1	0.31	Section 11.4.3
S_{M1}	0.81	Section 11.4.3
S_{D1}	0.54	Section 11.4.2

Soil Cement Reactivity

Excessive sulfate in either the soil or native water may result in an adverse reaction between the cement in concrete (or stucco) and the soil. HUD/FHA and UBC have developed criteria for evaluation of sulfate levels and how they relate to cement reactivity with soil and/or water.

Soil samples were obtained from the site and tested in accordance with State of California Materials Manual Test Designation 417. The sulfate concentrations detected in these soil samples were less than 150 ppm and are below the maximum allowable values established by HUD/FHA and CBC. Therefore, no special design requirements are necessary to compensate for sulfate reactivity with the cement.

Compacted Material Acceptance

Compaction specifications are not the only criteria for acceptance of the site grading or other such activities. However, the compaction test is the most universally recognized test method for assessing the performance of the Grading Contractor. The numerical test results from the compaction test cannot be used to predict the engineering performance of the compacted material. Therefore, the acceptance of compacted materials will also be dependent on the stability of that material. The Soils Engineer has the option of rejecting any compacted material regardless of the degree of compaction if that material is considered to be unstable or if future instability is suspected. A specific example of rejection of fill material passing the required percent compaction is a fill which has been compacted with an in-situ moisture content significantly less than optimum moisture. This type of dry fill (brittle fill) is susceptible to future settlement if it becomes saturated or flooded.

Testing and Inspection

A representative of Krazan & Associates, Inc. should be present at the site during the earthwork activities to confirm that actual subsurface conditions are consistent with the exploratory fieldwork. This activity is an integral part of our service, as acceptance of earthwork construction is dependent upon compaction testing and stability of the material. This representative can also verify that the intent of these recommendations is incorporated into the project design and construction. Krazan & Associates, Inc. will not be responsible for grades or staking, since this is the responsibility of the Prime Contractor.

LIMITATIONS

Soils Engineering is one of the newest divisions of Civil Engineering. This branch of Civil Engineering is constantly improving as new technologies and understanding of earth sciences advance. Although your site was analyzed using the most appropriate and most current techniques and methods, undoubtedly there will be substantial future improvements in this branch of engineering. In addition to advancements in the field of Soils Engineering, physical changes in the site, either due to excavation or fill placement, new agency regulations, or possible changes in the proposed structure after the soils report is completed may require the soils report to be professionally reviewed. In light of this, the Owner should be aware that there is a practical limit to the usefulness of this report without critical review. Although the time limit for this review is strictly arbitrary, it is suggested that 2 years be considered a reasonable time for the usefulness of this report.

Foundation and earthwork construction is characterized by the presence of a calculated risk that soil and groundwater conditions have been fully revealed by the original foundation investigation. This risk is derived from the practical necessity of basing interpretations and design conclusions on limited sampling of the earth. The recommendations made in this report are based on the assumption that soil conditions

do not vary significantly from those disclosed during our field investigation. If any variations or undesirable conditions are encountered during construction, the Soils Engineer should be notified so that supplemental recommendations may be made.

The conclusions of this report are based on the information provided regarding the proposed construction. If the proposed construction is relocated or redesigned, the conclusions in this report may not be valid. The Soils Engineer should be notified of any changes so the recommendations may be reviewed and re-evaluated.

This report is a Geotechnical Engineering Investigation with the purpose of evaluating the soil conditions in terms of foundation design. The scope of our services did not include any Environmental Site Assessment for the presence or absence of hazardous and/or toxic materials in the soil, groundwater, or atmosphere; or the presence of wetlands. Any statements, or absence of statements, in this report or on any boring log regarding odors, unusual or suspicious items, or conditions observed, are strictly for descriptive purposes and are not intended to convey engineering judgment regarding potential hazardous and/or toxic assessment.

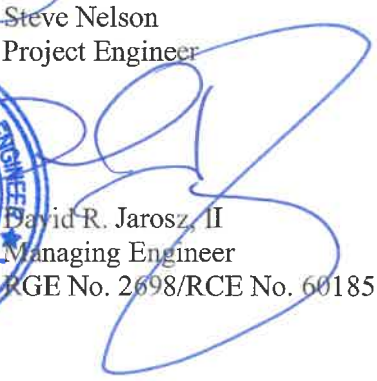
The geotechnical engineering information presented herein is based upon professional interpretation utilizing standard engineering practices and a degree of conservatism deemed proper for this project. It is not warranted that such information and interpretation cannot be superseded by future geotechnical engineering developments. We emphasize that this report is valid for the project outlined above and should not be used for any other sites.

If you have any questions or if we may be of further assistance, please do not hesitate to contact our office at (209) 572-2200.

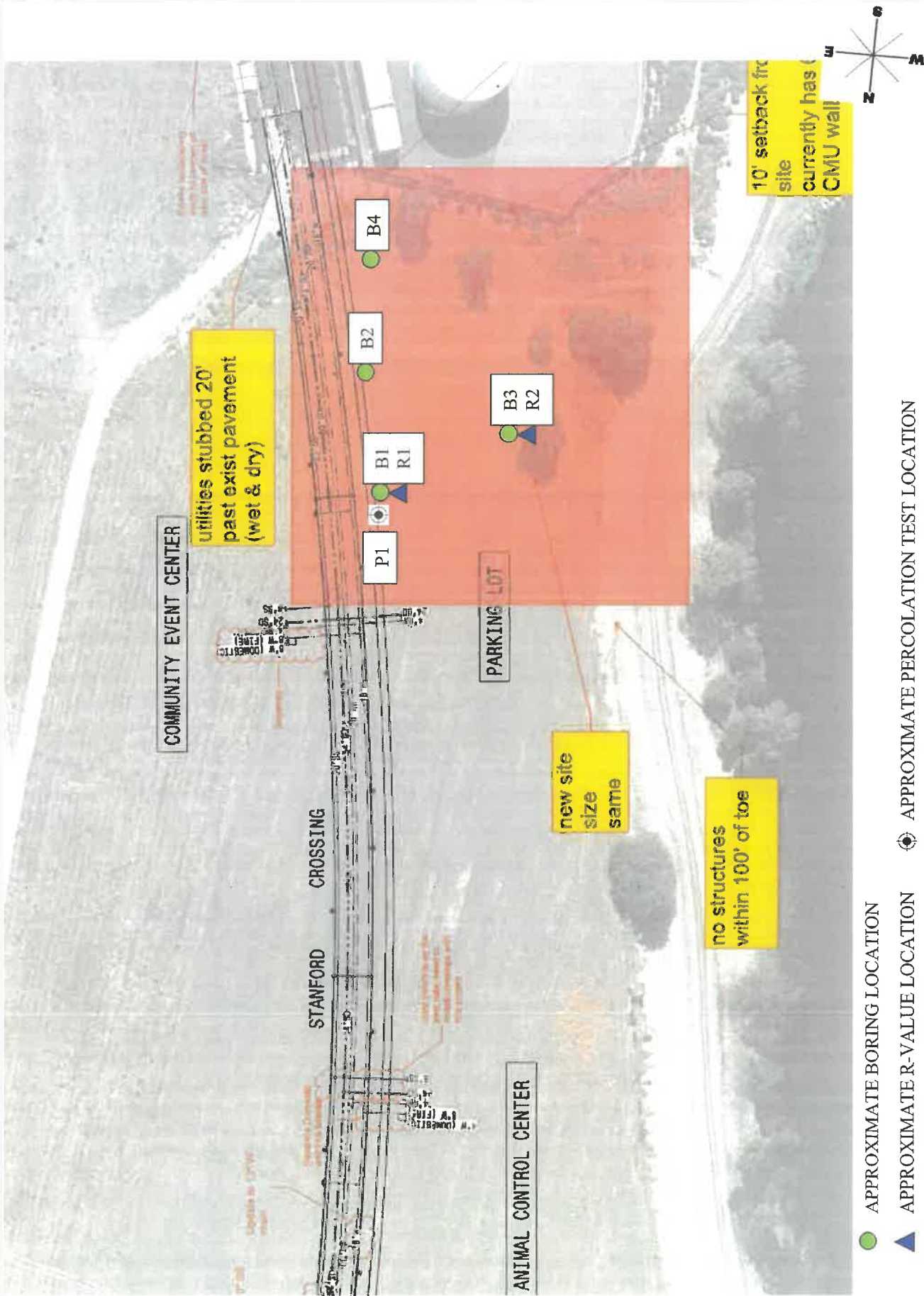
Respectfully submitted,
KRAZAN & ASSOCIATES, INC.


Steve Nelson
Project Engineer




David R. Jarosz, II
Managing Engineer
RGE No. 2698/RCE No. 60185

SN/DRJ:ht



- APPROXIMATE BORING LOCATION
- ▲ APPROXIMATE R-VALUE LOCATION

● APPROXIMATE PERCOLATION TEST LOCATION

SITE MAP		Scale:	Date:
Animal Shelter		NTS	February 2026
Stanford Crossing Extension and Dos Reis Road Lathrop, California		Drawn by:	Approved by:
		HT	DJ
		Project No. 072-25094	Figure No. 1

APPENDIX A

FIELD AND LABORATORY INVESTIGATIONS

Field Investigation

The field investigation consisted of a surface reconnaissance and a subsurface exploratory program. Four 4½-inch to 6½-inch exploratory borings were advanced. The boring locations are shown on the site plan.

The soils encountered were logged in the field during the exploration and, with supplementary laboratory test data, are described in accordance with the Unified Soil Classification System.

Modified standard penetration tests and standard penetration tests were performed at selected depths. These tests represent the resistance to driving a 2½-inch and 1½-inch diameter split barrel sampler, respectively. The driving energy was provided by a hammer weighing 140 pounds falling 30 inches. Relatively undisturbed soil samples were obtained while performing this test. Bag samples of the disturbed soil were obtained from the auger cuttings. The modified standard penetration tests are identified in the sample type on the boring logs with a full shaded in block. The standard penetration tests are identified in the sample type on the boring logs with half of the block shaded. All samples were returned to our Clovis laboratory for evaluation.

Laboratory Investigation

The laboratory investigation was programmed to determine the physical and mechanical properties of the foundation soil underlying the site. Test results were used as criteria for determining the engineering suitability of the surface and subsurface materials encountered.

In-situ moisture content, dry density, consolidation, direct shear, Atterberg limits and sieve analysis tests were determined for the undisturbed samples representative of the subsurface material. Expansion index and R-value tests were completed for select bag samples obtained from the auger cuttings. These tests, supplemented by visual observation, comprised the basis for our evaluation of the site material.

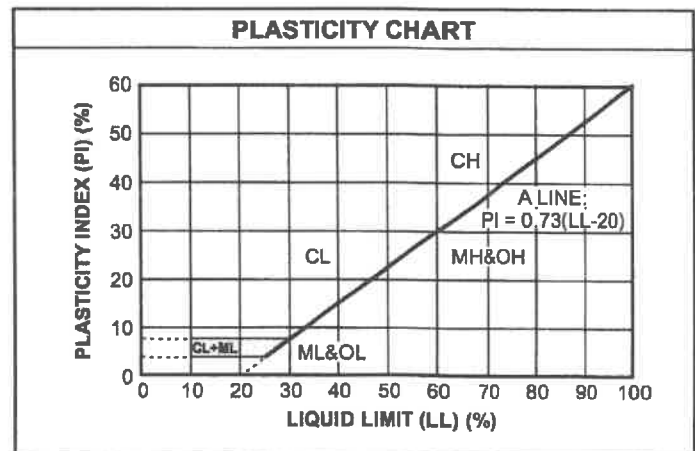
The logs of the exploratory borings and laboratory determinations are presented in this Appendix.

UNIFIED SOIL CLASSIFICATION SYSTEM

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART			
COARSE-GRAINED SOILS (more than 50% of material is larger than No. 200 sieve size.)			
GRAVELS More than 50% of coarse fraction larger than No. 4 sieve size	Clean Gravels (Less than 5% fines)		
		GW	Well-graded gravels, gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
	Gravels with fines (More than 12% fines)		
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
SANDS 50% or more of coarse fraction smaller than No. 4 sieve size	Clean Sands (Less than 5% fines)		
		SW	Well-graded sands, gravelly sands, little or no fines
		SP	Poorly graded sands, gravelly sands, little or no fines
	Sands with fines (More than 12% fines)		
		SM	Silty sands, sand-silt mixtures
SILTS AND CLAYS Liquid limit less than 50%		ML	Inorganic silts and very fine sands, rock flour, silty of clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silty clays of low plasticity
		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silts
		PT	Peat and other highly organic soils
	HIGHLY ORGANIC SOILS		

CONSISTENCY CLASSIFICATION	
Description	Blows per Foot
<i>Granular Soils</i>	
Very Loose	< 5
Loose	5 – 15
Medium Dense	16 – 40
Dense	41 – 65
Very Dense	> 65
<i>Cohesive Soils</i>	
Very Soft	< 3
Soft	3 – 5
Firm	6 – 10
Stiff	11 – 20
Very Stiff	21 – 40
Hard	> 40

GRAIN SIZE CLASSIFICATION		
Grain Type	Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12 inches	Above 305
Cobbles	3 to 12 inches	305 to 76.2
Gravel	3 inches to No. 4	76.2 to 4.76
Coarse-grained	3 to ¾ inches	76.2 to 19.1
Fine-grained	¾ inches to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.074
Coarse-grained	No. 4 to No. 10	4.76 to 2.00
Medium-grained	No. 10 to No. 40	2.00 to 0.42
Fine-grained	No. 40 to No. 200	0.42 to 0.074
Silt and Clay	Below No. 200	Below 0.074



Log of Boring B1

Project: Animal Shelter

Project No: 072-25094

Client: LDA Partners

Figure No.: A-1

Location: Stanford Crossing Extension and Dos Reis Road, Lathrop, California

Logged By: Michael Rupright

Depth to Water>

Initial: 9 Feet

At Completion: 9 Feet

SUBSURFACE PROFILE			SAMPLE				Penetration Test blows/ft			Water Content (%)			
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.	20	40	60	10	20	30	40
0		Ground Surface											
2		SILTY SAND/SANDY SILT (SM/ML) Very loose, fine-grained with trace CLAY; brown, moist, drills easily Medium dense below 12 inches	116.1	17.3		20							
4		SILTY SAND (SM) Loose, fine-grained; brown-gray, moist, drills easily											
6				20.2		15							
8													
10		Saturated below 9 feet											
12		End of Borehole											
14													
16													
18													
20													

Drill Method: Solid Flight

Drill Date: 1-13-26

Drill Rig: CME 45C-5

Krazan and Associates

Hole Size: 4½ Inches

Driller: Brent Snyder

Elevation: 10 Feet

Sheet: 1 of 1

Log of Boring B2

Project: Animal Shelter

Project No: 072-25094

Client: LDA Partners

Figure No.: A-2

Location: Stanford Crossing Extension and Dos Reis Road, Lathrop, California

Logged By: Michael Rupright

Depth to Water>

Initial: 9 Feet

At Completion: 9 Feet

SUBSURFACE PROFILE			SAMPLE				Penetration Test blows/ft			Water Content (%)			
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.	20	40	60	10	20	30	40
0		Ground Surface											
2		CLAYEY SAND/SANDY CLAY (SC/CL) Very loose, fine-grained; brown, moist, drills easily Medium dense below 12 inches	118.3	16.9		24							
4		SANDY SILT (ML) Loose, fine-grained with CLAY; brown, saturated, drills easily	106.9	24.5		14							
6													
8													
10		Saturated below 9 feet Medium dense below 9½ feet	94.2	30.5		24							
12													
14		SILTY CLAY (CL) Very stiff, with trace fine-grained SAND; gray-brown, saturated, drills easily	90.7	34.4		25							
16													
18													
20													

Drill Method: Solid Flight

Drill Date: 1-13-26

Drill Rig: CME 45C-5

Krazan and Associates

Hole Size: 4½ Inches

Driller: Brent Snyder

Elevation: 20 Feet

Sheet: 1 of 1

Log of Boring B3

Project: Animal Shelter

Project No: 072-25094

Client: LDA Partners

Figure No.: A-3

Location: Stanford Crossing Extension and Dos Reis Road, Lathrop, California

Logged By: Michael Rupright

Depth to Water>

Initial: None

At Completion: None

SUBSURFACE PROFILE			SAMPLE				Penetration Test blows/ft			Water Content (%)						
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.										
0		Ground Surface														
		CLAYEY SAND (SC) Very loose, fine-grained; brown-gray, moist, drills easily Medium dense below 12 inches														
2				116.5	15.5		17									
4																
		CLAYEY SANDY SILT (ML) Medium dense, fine-grained; brown-gray, very moist, drills easily	93.1	30.5		28										
6																
8																
10		End of Borehole														
12																
14																
16																
18																
20																

Drill Method: Solid Flight

Drill Date: 1-13-26

Drill Rig: CME 45C-5

Krazan and Associates

Hole Size: 4½ Inches

Driller: Brent Snyder

Elevation: 10 Feet

Sheet: 1 of 1

Log of Boring B4

Project: Animal Shelter

Project No: 072-25094

Client: LDA Partners

Figure No.: A-4

Location: Stanford Crossing Extension and Dos Reis Road, Lathrop, California

Logged By: Michael Rupright

Depth to Water>

Initial: 9 Feet

At Completion: 9 Feet

SUBSURFACE PROFILE			SAMPLE				Penetration Test blows/ft			Water Content (%)			
Depth (ft)	Symbol	Description	Dry Density (pcf)	Moisture (%)	Type	Blows/ft.	20	40	60	10	20	30	40
0		Ground Surface											
2		CLAYEY SAND (SC) Very loose, fine-grained; brown, moist, drills easily Medium dense below 12 inches	113.4	17.8		20							
4		SILTY SAND/SANDY SILT (SM/ML) Medium dense, fine-grained with trace CLAY; gray-brown, moist, drills easily	108.2	19.4		16							
6													
8													
10		SILTY CLAY (CL) Firm, with trace fine-grained SAND; gray-brown, saturated, drills easily	89.8	32.1		4							
12													
14													
16		SANDY SILT (ML) Loose, fine-grained with CLAY; brown, saturated, drills easily	88.2	28.9		6							
18													
20		SAND (SP) Medium dense, fine- to medium-grained; gray, saturated, drills easily											

Drill Method: Hollow Stem

Drill Date: 1-13-26

Drill Rig: CME 45C-5

Krazan and Associates

Hole Size: 6½ Inches

Driller: Brent Snyder

Elevation: 35 Feet

Sheet: 1 of 2

Log of Boring B4

Project: Animal Shelter

Project No: 072-25094

Client: LDA Partners

Figure No.: A-4

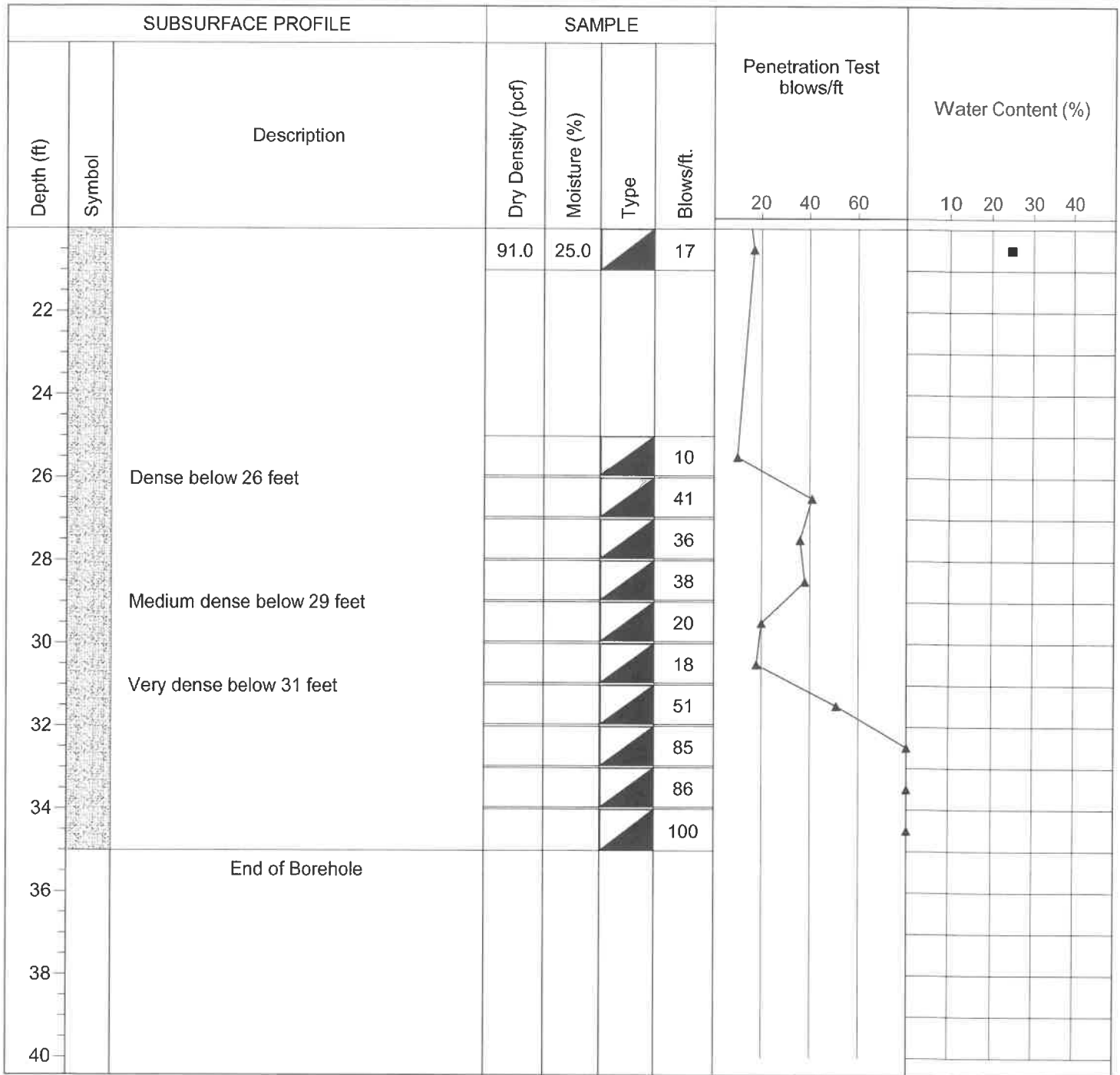
Location: Stanford Crossing Extension and Dos Reis Road, Lathrop, California

Logged By: Michael Rupright

Depth to Water>

Initial: 9 Feet

At Completion: 9 Feet



Drill Method: Hollow Stem

Drill Date: 1-13-26

Drill Rig: CME 45C-5

Krazan and Associates

Hole Size: 6½ Inches

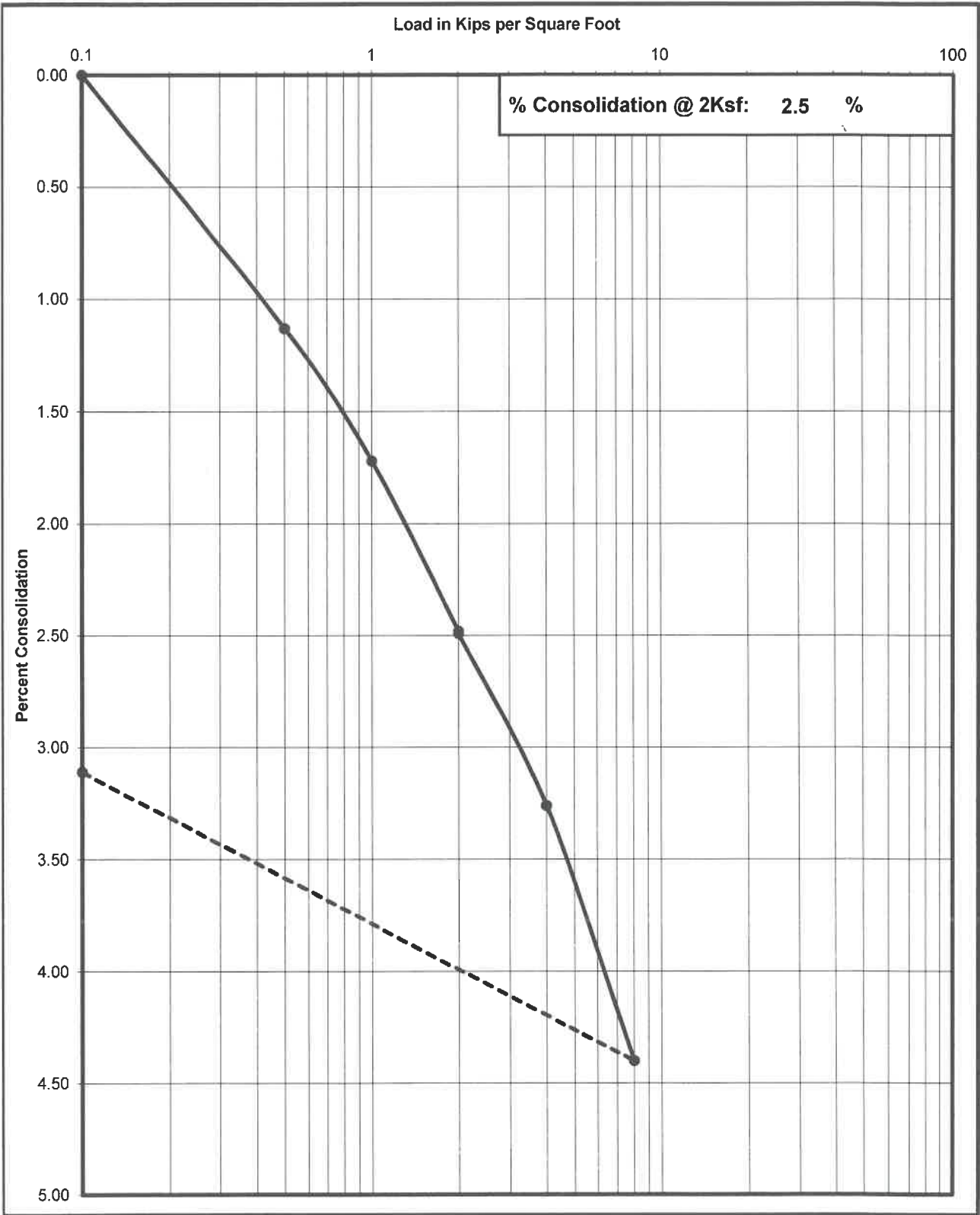
Driller: Brent Snyder

Elevation: 35 Feet

Sheet: 2 of 2

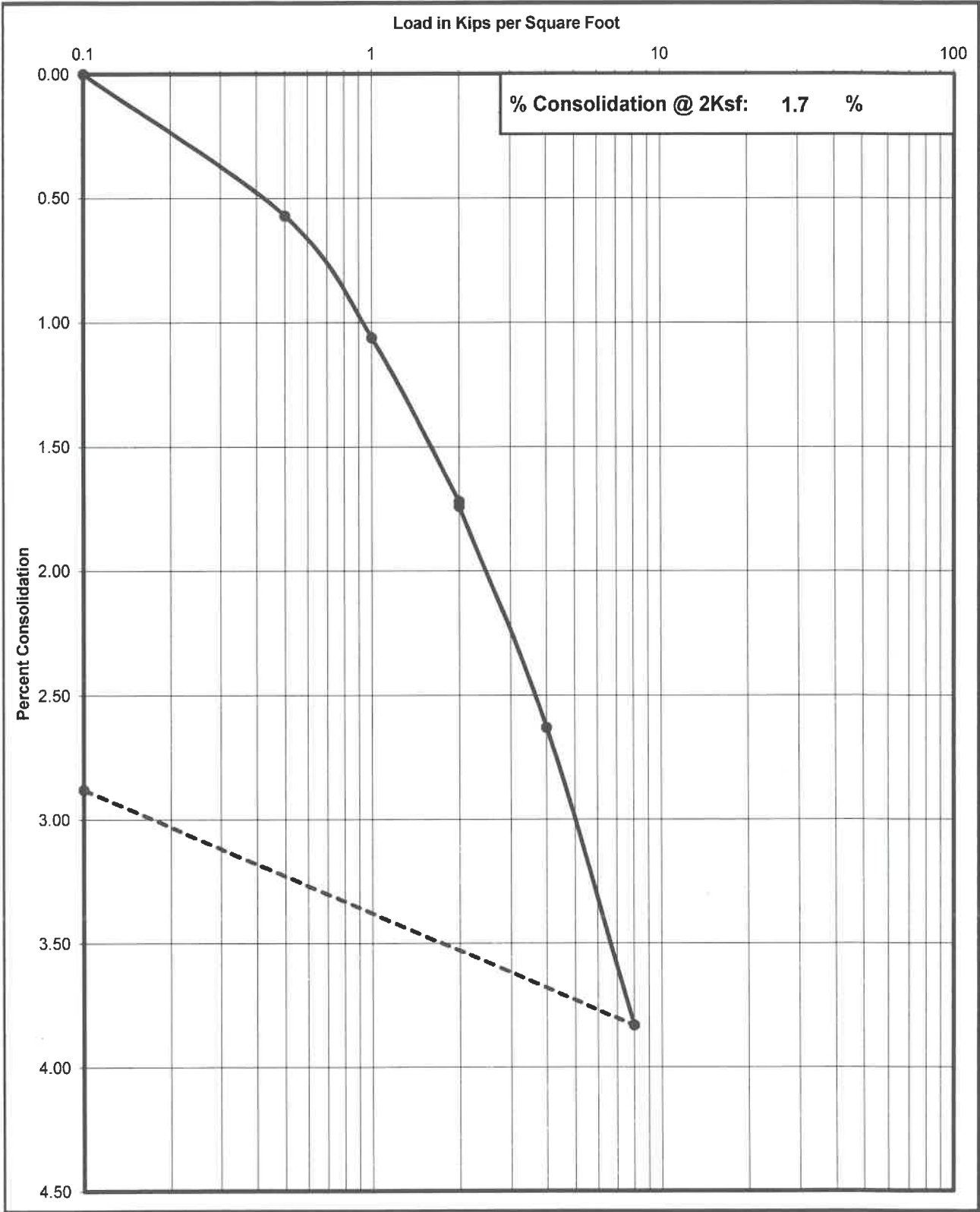
Consolidation Test

Project No	Boring No. & Depth	Date	Soil Classification
072-25094	B2 @ 5-6'	1/27/2026	ML w/ trace of clay



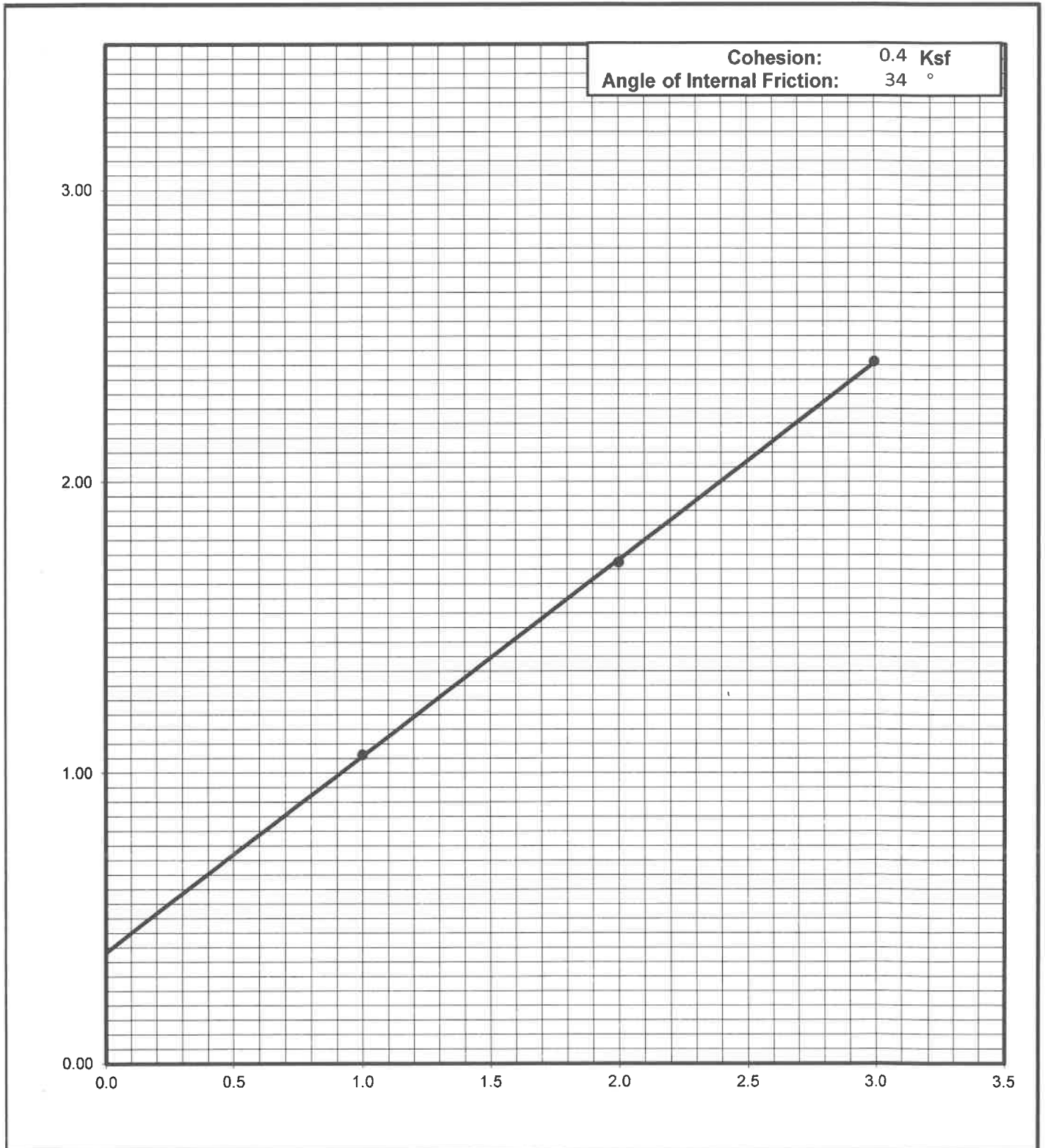
Consolidation Test

Project No	Boring No. & Depth	Date	Soil Classification
072-25094	B3 @ 2-3'	1/27/2026	SC

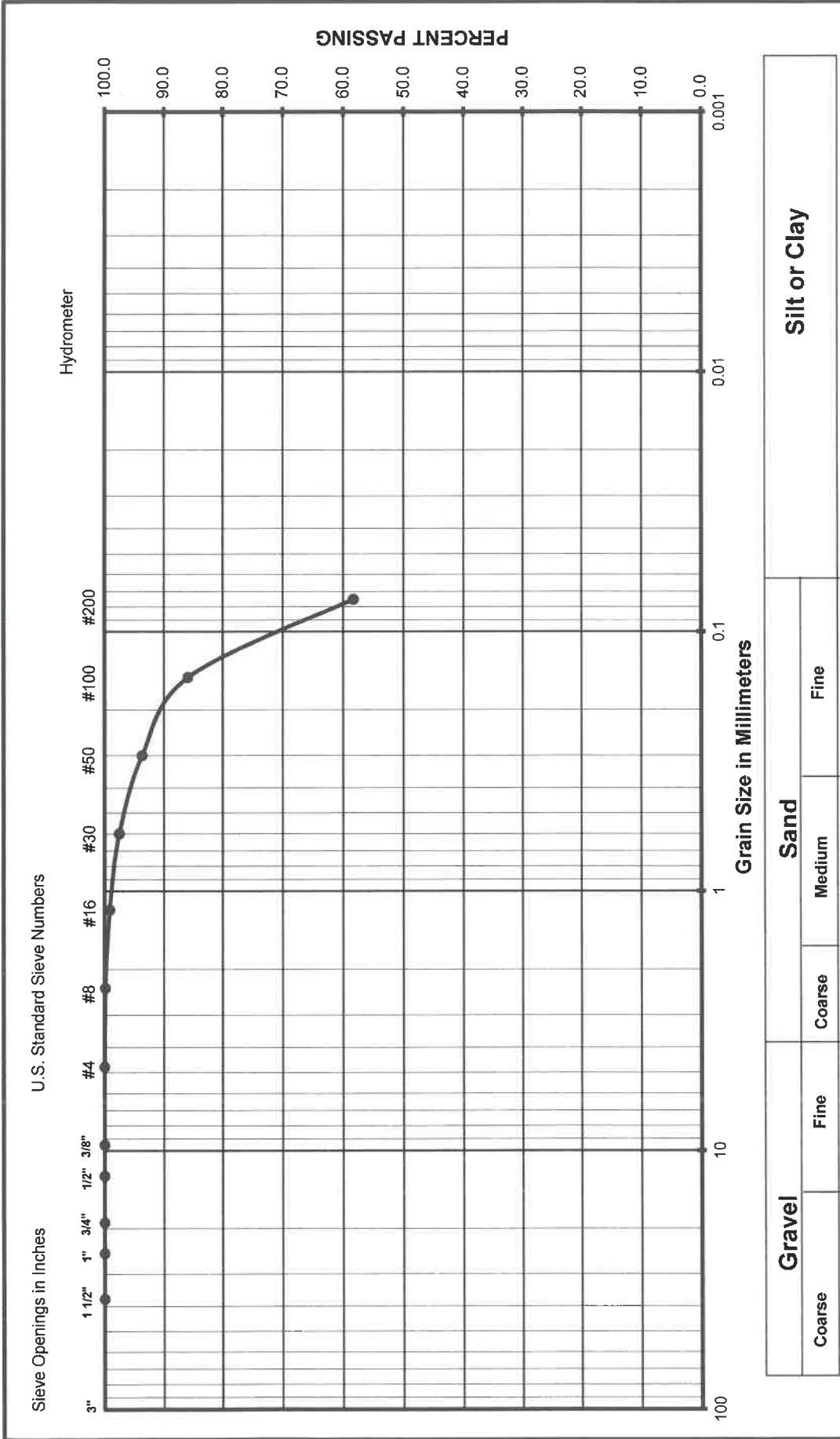


Shear Strength Diagram (Direct Shear)
ASTM D - 3080 / AASHTO T - 236

Project Number	Boring No. & Depth	Soil Type	Date
072-25094	B4 @ 2-3'	SC	1/27/2026



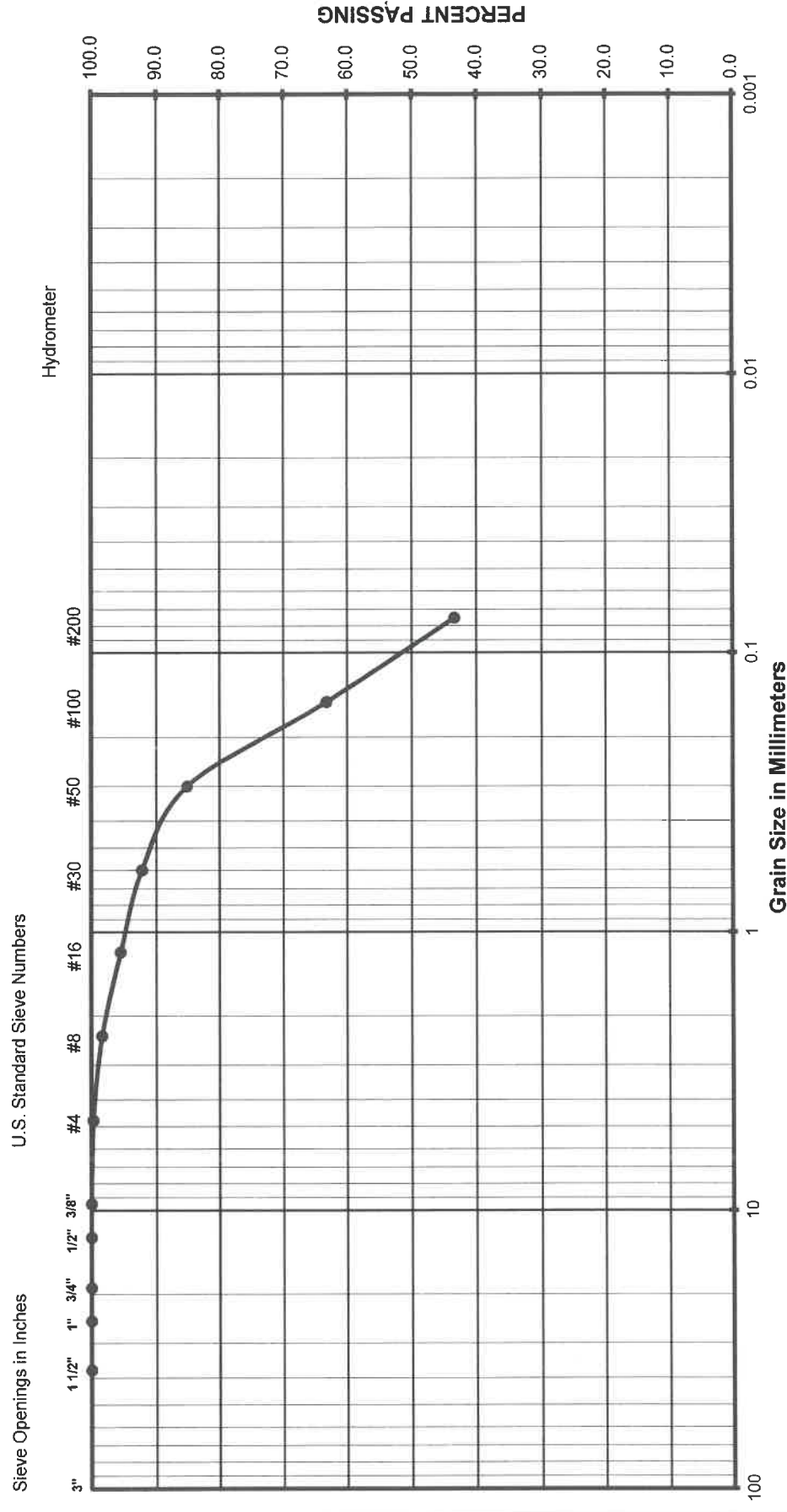
Grain Size Analysis



(Unified Soils Classification)

Project Name: Animal Shelter
Project Number: 072-25094
Soil Classification: ML w/ trace of clay
Sample Number: B2 @ 5-6'

Grain Size Analysis



Gravel		Sand			Silt or Clay
Coarse	Fine	Coarse	Medium	Fine	

(Unified Soils Classification)

Project Name	Animal Shelter
Project Number	072-25094
Soil Classification	SC
Sample Number	B3 @ 2-3'

Expansion Index Test

ASTM D - 4829

Project Number : 072-25094
Project Name : Animal Shelter
Date : 1/27/2026
Sample location/ Depth : B1 @ 1-3'
Sample Number : RV2/X3
Soil Classification : SM/ML w/ clay

Trial #	1	2	3
Weight of Soil & Mold, gms	785.4		
Weight of Mold, gms	367.6		
Weight of Soil, gms	417.8		
Wet Density, Lbs/cu.ft.	126.0		
Weight of Moisture Sample (Wet), gms	200.0		
Weight of Moisture Sample (Dry), gms	184.3		
Moisture Content, %	8.5		
Dry Density, Lbs/cu.ft.	116.1		
Specific Gravity of Soil	2.7		
Degree of Saturation, %	51.0		

Time	Initial	30 min	1 hr	6hrs	12 hrs	24 hrs
Dial Reading	0	--	--	--	--	0.0191

Expansion Index_{measured} = 19.1

Expansion Index = **19**

Expansion Potential Table	
Exp. Index	Potential Exp.
0 - 20	Very Low
21 - 50	Low
51 - 90	Medium
91 - 130	High
>130	Very High

Expansion Index Test

ASTM D - 4829

Project Number : 072-25094
Project Name : Animal Shelter
Date : 1/27/2026
Sample location/ Depth : B3 @ 1-3'
Sample Number : X2
Soil Classification : SC

Trial #	1	2	3
Weight of Soil & Mold, gms	782.8		
Weight of Mold, gms	366.8		
Weight of Soil, gms	416.0		
Wet Density, Lbs/cu.ft.	125.5		
Weight of Moisture Sample (Wet), gms	200.0		
Weight of Moisture Sample (Dry), gms	184.9		
Moisture Content, %	8.2		
Dry Density, Lbs/cu.ft.	116.0		
Specific Gravity of Soil	2.7		
Degree of Saturation, %	48.7		

Time	Initial	30 min	1 hr	6hrs	12 hrs	24 hrs
Dial Reading	0	--	--	--	--	0.0177

Expansion Index_{measured} = 17.7

Expansion Index = **18**

Expansion Potential Table	
Exp. Index	Potential Exp.
0 - 20	Very Low
21 - 50	Low
51 - 90	Medium
91 - 130	High
>130	Very High

Plasticity Index of Soils

ASTM D4318/AASHTO T89 T90/CT 204

Project: **Animal Shelter**
 Project Number: **072-25094**
 Date Sampled: 1/16/2026
 Sampled By: MR
 Sample Number: -
 Sample Location: B2 @ 5-6'
 Sample Description: ML w/ trace of clay

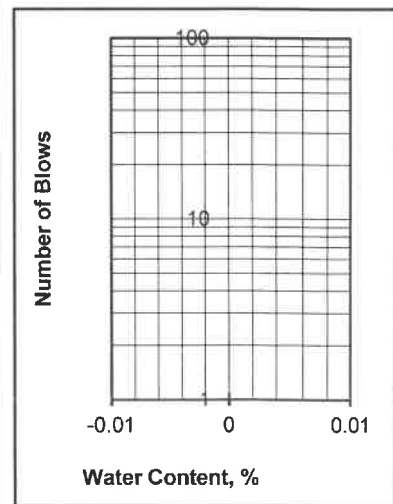
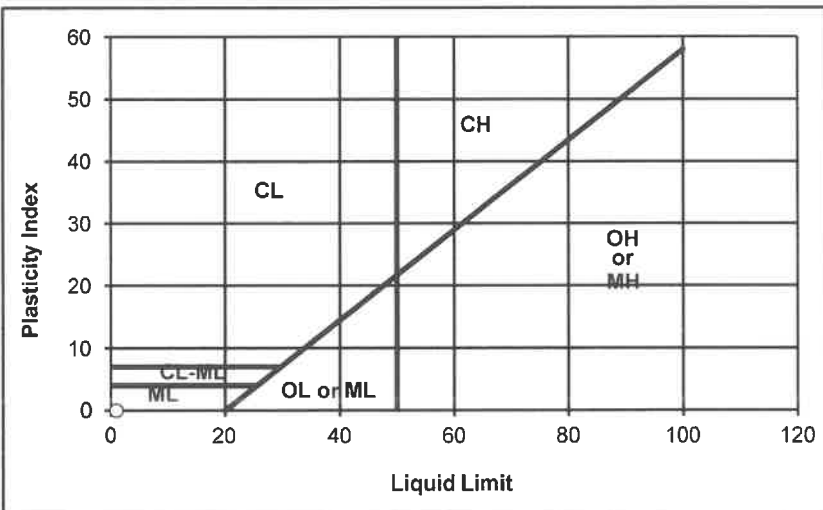
Date Tested: 1/26/2026
 Tested By: EY
 Verified By: JG

Trial Number	Plastic Limit			Liquid Limit		
	1	2	3	1	2	3
Weight of Wet Soil & Tare (g)						
Weight of Dry Soil & Tare (g)						
Weight of Tare (g)						
Weight of water (g)						
Weight of Dry Soil (g)						
Water Content (% of dry wt.)						
Number of Blows						

Plastic Limit : N/D

Liquid Limit : N/D

Plasticity Index : **NON-PLASTIC**
 Unified Soil Classification : **NON-PLASTIC**
 Requirement:
 Approx. % of Material Retained on # 40 Sieve:



Departures from Outlined Procedure:

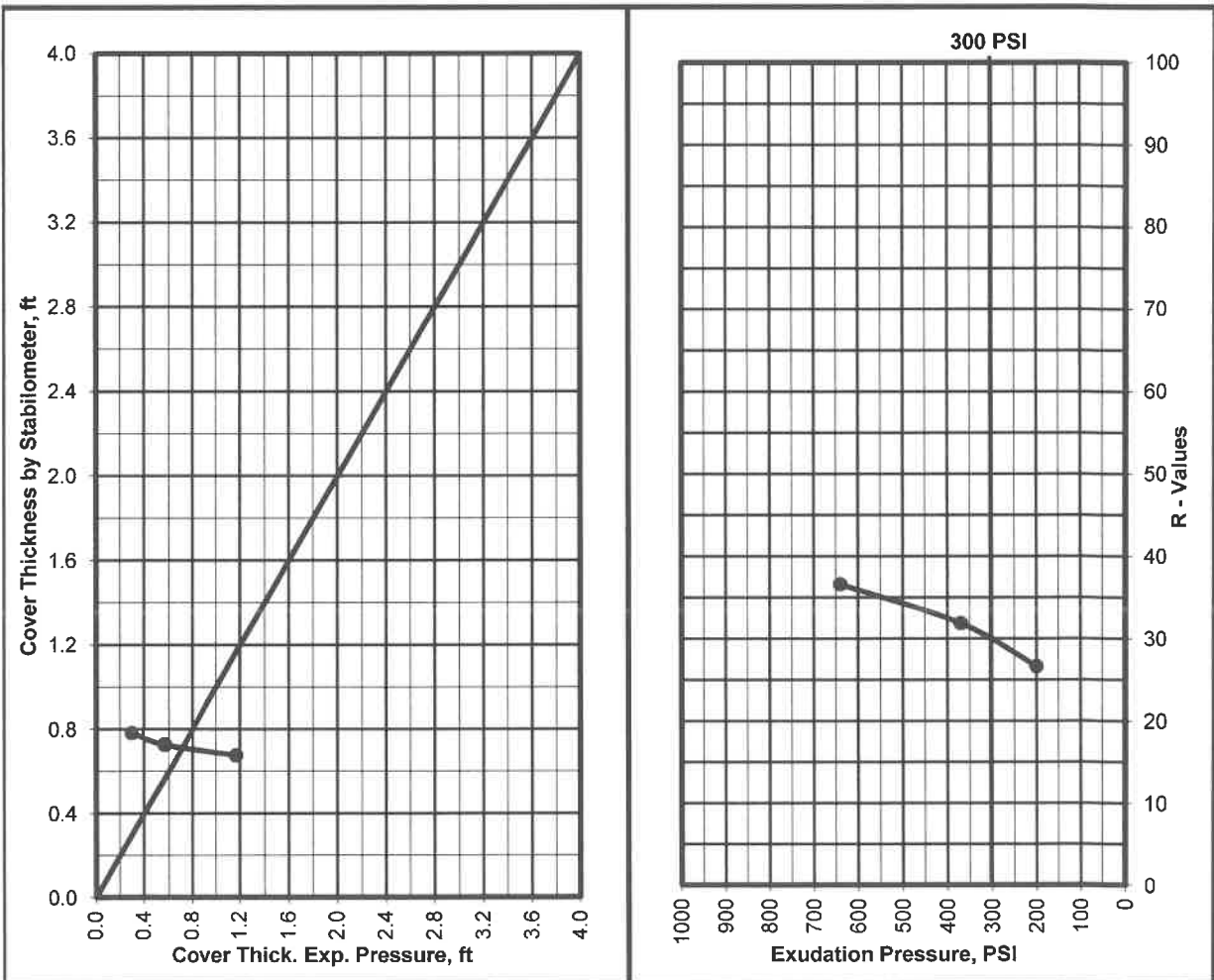
Unusual Conditions, Other Notes:

R - VALUE TEST ASTM D - 2844 / CAL 301

Project Number : 072-25094
Project Name : Animal Shelter
Date : 1/27/2026
Sample Location/Curve Number : RV#1
Soil Classification : SC w/ grvl

TEST	A	B	C
Percent Moisture @ Compaction, %	10.9	9.9	9.4
Dry Density, lbm/cu.ft.	119.8	121.1	#VALUE!
Exudation Pressure, psi	200	370	640
Expansion Pressure, (Dial Reading)	9	17	35
Expansion Pressure, psf	39	74	152
Resistance Value R	27	32	37

R Value at 300 PSI Exudation Pressure	30
R Value by Expansion Pressure (TI =): 5	34



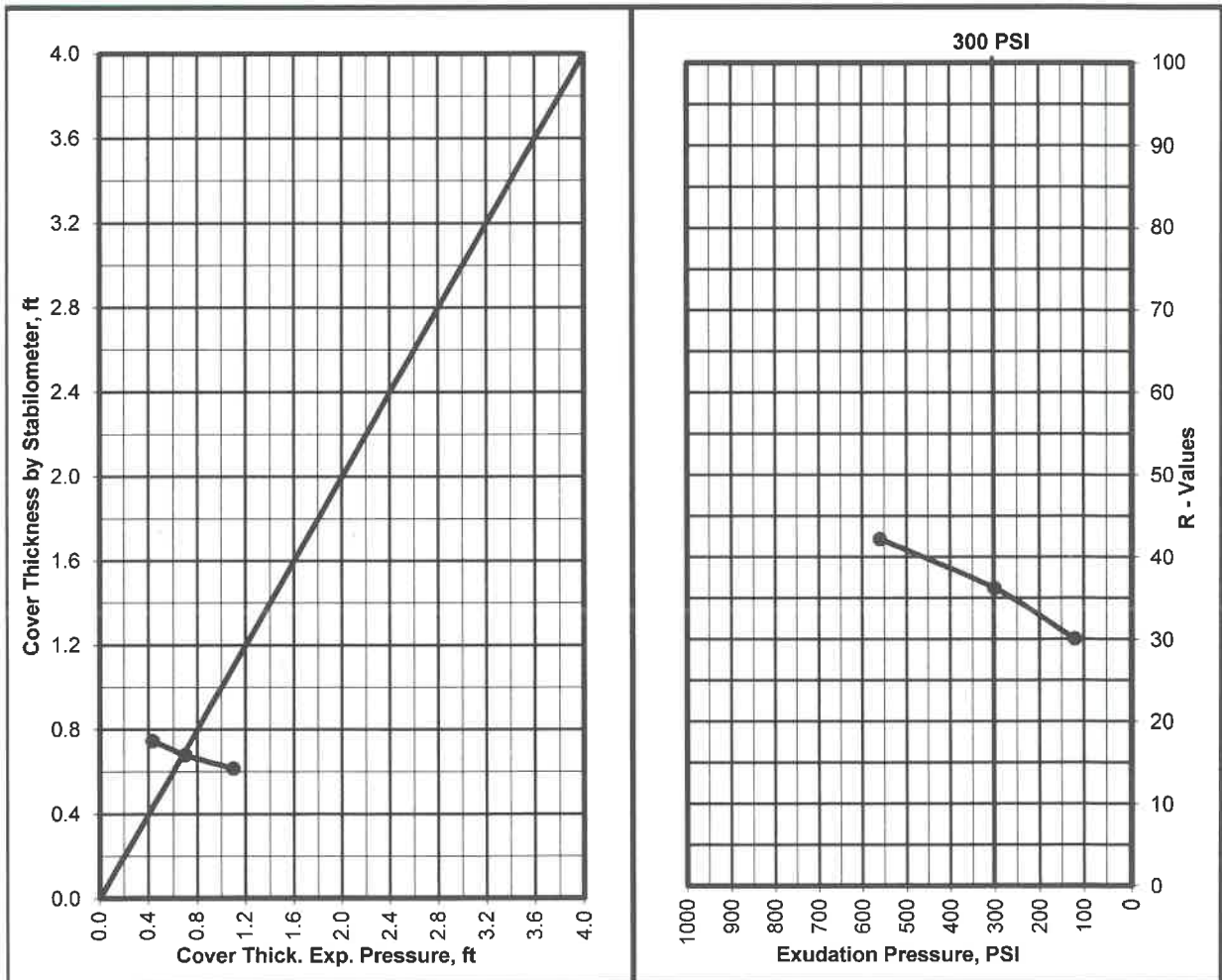
R - VALUE TEST

ASTM D - 2844 / CAL 301

Project Number : 072-25094
 Project Name : Animal Shelter
 Date : 1/27/2026
 Sample Location/Curve Number : RV#2
 Soil Classification : SC w/ grvl

TEST	A	B	C
Percent Moisture @ Compaction, %	12.0	12.8	13.5
Dry Density, lbm/cu.ft.	118.5	118.1	116.2
Exudation Pressure, psi	560	300	120
Expansion Pressure, (Dial Reading)	33	21	13
Expansion Pressure, psf	143	91	56
Resistance Value R	42	36	30

R Value at 300 PSI Exudation Pressure	36
R Value by Expansion Pressure (TI =): 5	38



APPENDIX B

EARTHWORK SPECIFICATIONS

GENERAL

When the text of the report conflicts with the general specifications in this appendix, the recommendations in the report have precedence.

SCOPE OF WORK: These specifications and applicable plans pertain to and include all earthwork associated with the site rough grading, including but not limited to the furnishing of all labor, tools, and equipment necessary for site clearing and grubbing, stripping, preparation of foundation materials for receiving fill, excavation, processing, placement and compaction of fill and backfill materials to the lines and grades shown on the project grading plans, and disposal of excess materials.

PERFORMANCE: The Contractor shall be responsible for the satisfactory completion of all earthwork in accordance with the project plans and specifications. This work shall be inspected and tested by a representative of Krazan and Associates, Inc., hereinafter known as the Soils Engineer and/or Testing Agency. Attainment of design grades when achieved shall be certified to by the project Civil Engineer. Both the Soils Engineer and the Civil Engineer are the Owner's representatives. If the Contractor should fail to meet the technical or design requirements embodied in this document and on the applicable plans, he shall make the necessary readjustments until all work is deemed satisfactory as determined by both the Soils Engineer and the Civil Engineer. No deviation from these specifications shall be made except upon written approval of the Soils Engineer, Civil Engineer or project Architect.

No earthwork shall be performed without the physical presence or approval of the Soils Engineer. The Contractor shall notify the Soils Engineer at least 2 working days prior to the commencement of any aspect of the site earthwork.

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineers harmless from any and all liability, real or alleged, in connection with the performance of work on this project, except for liability arising from the soil negligence of the Owner or the Engineers.

TECHNICAL REQUIREMENTS: All compacted materials shall be densified to a density not less than 90 percent relative compaction based on ASTM Test Method D1557 or CAL-216, as specified in the technical portion of the Soil Engineer's report. The location and frequency of field density tests shall be as determined by the Soils Engineer. The results of these tests and compliance with these specifications shall be the basis upon which satisfactory completion of work will be judged by the Soils Engineer.

SOILS AND FOUNDATION CONDITIONS: The Contractor is presumed to have visited the site and to have familiarized himself with existing site conditions and the contents of the data presented in the soil report.

The Contractor shall make his own interpretation of the data contained in said report, and the Contractor shall not be relieved of liability under the Contractor for any loss sustained as a result of any variance between conditions indicated by or deduced from said report and the actual conditions encountered during the progress of the work.

DUST CONTROL: The work includes dust control as required for the alleviation or prevention of any dust nuisance on or about the site or the borrow area, or off-site if caused by the Contractor's operation either during the performance of the earthwork or resulting from the conditions in which the Contractor leaves the site. The Contractor shall assume all liability, including court costs of codefendants, for all claims related to dust or windblown materials attributable to his work.

SITE PREPARATION

Site preparation shall consist of site clearing and grubbing and the preparations of foundation materials for receiving fill.

CLEARING AND GRUBBING: The Contractor shall accept the site in this present condition and shall demolish and/or remove from the area of designated project, earthwork all structures, both surface and subsurface, trees, brush, roots, debris, organic matter, and all other matter determined by the Soils Engineer to be deleterious. Such materials shall become the property of the Contractor and shall be removed from the site.

Tree root systems in proposed building areas should be removed to a minimum depth of 3 feet and to such an extent which would permit removal of all roots larger than 1 inch. Tree root removed in parking areas may be limited to the upper 1½ feet of the ground surface. Backfill or tree root excavation should not be permitted until all exposed surfaces have been inspected and the Soils Engineer is present for the proper control of backfill placement and compaction. Burning in areas which are to receive fill materials shall not be permitted.

SUBGRADE PREPARATION: Surfaces to receive Engineered Fill, building or slab loads shall be prepared as outlined above, scarified to a depth of 6 inches, moisture-conditioned as necessary, and compacted to 90 percent relative compaction.

Loose soil areas, areas of uncertified fill, and/or areas of disturbed soils shall be moisture-conditioned as necessary and recompact to 90 percent relative compaction. All ruts, hummocks, or other uneven surface features shall be removed by surface grading prior to placement of any fill materials. All areas, which are to receive fill materials, shall be approved by the Soils Engineer prior to the placement of any of the fill material.

EXCAVATION: All excavation shall be accomplished to the tolerance normally defined by the Civil Engineer as shown on the project grading plans. All over excavation below the grades specified shall be backfilled at the Contractor's expense and shall be compacted in accordance with the applicable technical requirements.

FILL AND BACKFILL MATERIAL: No material shall be moved or compacted without the presence of the Soils Engineer. Material from the required site excavation may be utilized for construction site fills provided prior approval is given by the Soils Engineer. All materials utilized for constructing site fills shall be free from vegetation or other deleterious matter as determined by the Soils Engineer.

PLACEMENT, SPREADING AND COMPACTION: The placement and spreading of approved fill materials and the processing and compaction of approved fill and native materials shall be the responsibility of the Contractor. However, compaction of fill materials by flooding, ponding, or jetting shall not be permitted unless specifically approved by local code, as well as the Soils Engineer.

Both cut and fill shall be surface compacted to the satisfaction of the Soils Engineer prior to final acceptance.

SEASONAL LIMITS: No fill material shall be placed, spread, or rolled while it is frozen or thawing or during unfavorable wet weather conditions. When the work is interrupted by heavy rains, fill operations shall not be resumed until the Soils Engineer indicates that the moisture content and density of previously placed fill are as specified.

APPENDIX C

PAVEMENT SPECIFICATIONS

1. DEFINITIONS - The term "pavement" shall include asphaltic concrete surfacing, untreated aggregate base, and aggregate subbase. The term "subgrade" is that portion of the area on which surfacing, base, or subbase is to be placed.

The term "Standard Specifications": hereinafter referred to is the 2024 Standard Specifications of the State of California, Department of Transportation, and the "Materials Manual" is the Materials Manual of Testing and Control Procedures, State of California, Department of Public Works, Division of Highways. The term "relative compaction" refers to the field density expressed as a percentage of the maximum laboratory density as defined in the applicable tests outlined in the Materials Manual.

2. SCOPE OF WORK - This portion of the work shall include all labor, materials, tools, and equipment necessary for, and reasonably incidental to the completion of the pavement shown on the plans and as herein specified, except work specifically notes as "Work Not Included."

3. PREPARATION OF THE SUBGRADE - The Contractor shall prepare the surface of the various subgrades receiving subsequent pavement courses to the lines, grades, and dimensions given on the plans. The upper 12 inches of the soil subgrade beneath the pavement section shall be compacted to a minimum relative compaction of 90 percent. The finished subgrades shall be tested and approved by the Soils Engineer prior to the placement of additional pavement courses.

4. UNTREATED AGGREGATE BASE - The aggregate base material shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate base material shall conform to the requirements of Section 26 of the Standard Specifications for Class 2 material, 1½ inches maximum size. The aggregate base material shall be compacted to a minimum relative compaction of 95 percent. The aggregate base material shall be spread and compacted in accordance with Section 26 of the Standard Specifications. The aggregate base material shall be spread in layers not exceeding 6 inches and each layer of aggregate material course shall be tested and approved by the Soils Engineer prior to the placement of successive layers.

5. AGGREGATE SUBBASE - The aggregate subbase shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate subbase material shall conform to the requirements of Section 25 of the Standard Specifications for Class 2 material. The aggregate subbase material shall be compacted to a minimum relative compaction of 95 percent, and it shall be spread and compacted in accordance with Section 25 of the Standard Specifications. Each layer of aggregate subbase shall be tested and approved by the Soils Engineer prior to the placement of successive layers.

6. ASPHALTIC CONCRETE SURFACING - Asphaltic concrete surfacing shall consist of a mixture of mineral aggregate and paving grade asphalt, mixed at a central mixing plant and spread and compacted on a prepared base in conformity with the lines, grades, and dimensions shown on the plans. The viscosity grade of the asphalt shall be PG 64-10. The mineral aggregate shall be Type B, ½ inch maximum size, medium grading, and shall conform to the requirements set forth in Section 39 of the Standard Specifications. The drying, proportioning, and mixing of the materials shall conform to Section 39.

The prime coat, spreading and compacting equipment, and spreading and compacting the mixture shall conform to the applicable chapters of Section 39, with the exception that no surface course shall be placed when the atmospheric temperature is below 50 degrees F. The surfacing shall be rolled with a combination steel-wheel and pneumatic rollers, as described in Section 39-6. The surface course shall be placed with an approved self-propelled mechanical spreading and finishing machine.

7. FOG SEAL COAT - The fog seal (mixing type asphaltic emulsion) shall conform to and be applied in accordance with the requirements of Section 37.

SECTION 08 44 13 - GLAZED ALUMINUM CURTAIN WALLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes glazed aluminum curtain walls.
- B. Related Sections include the following:
 - 1. Division 5 Structural Steel Framing
 - 2. Division 5 Cold-Rolled Steel Framing
 - 3. Division 7 Metal Wall Panels
 - 4. Division 7 Sheet Metal Flashing and Trim
 - 5. Division 7 Joint Sealants
 - 6. Division 8 Finish Hardware
 - 7. Division 8 Glazing

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Shop Drawings: For glazed aluminum curtain walls. Include plans, elevations, sections, full-size details, and attachments to other Work.
 - 1. Include details of provisions for assembly expansion and contraction and for draining moisture occurring within the assembly to the exterior.
 - 2. Include full-size isometric details of each vertical-to-horizontal intersection of glazed aluminum curtain walls, showing the following:
 - a. Joinery, including concealed welds.
 - b. Anchorage.
 - c. Expansion provisions.
 - d. Glazing.
 - e. Flashing and drainage.
 - 3. Show connection to and continuity with adjacent thermal, weather, air, and vapor barriers.
- C. Samples for Initial Selection: For units with factory-applied color finishes.
- D. Samples for Verification: For each type of exposed finish required, in manufacturer's standard sizes.

- E. Fabrication Sample: Of each vertical-to-horizontal intersection of assemblies, made from 12-inch lengths of full-size components and showing details of the following:
 - 1. Joinery, including concealed welds.
 - 2. Anchorage.
 - 3. Expansion provisions.
 - 4. Glazing.
 - 5. Flashing and drainage.
- F. Delegated-Design Submittal: For glazed aluminum curtain walls indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.4 INFORMATIONAL SUBMITTALS

- A. Preconstruction Laboratory Mockup Testing Submittals:
 - 1. Testing Program: Developed specifically for Project.
 - 2. Test Reports: Prepared by a qualified preconstruction testing agency for each mockup test.
 - 3. Record Drawings: As-built drawings of preconstruction laboratory mockups showing changes made during preconstruction laboratory mockup testing.
- B. Qualification Data: For Installer
- C. Energy Performance Certificates: For glazed aluminum curtain walls, accessories, and components from manufacturer.
 - 1. Basis for Certification: NFRC-certified energy performance values for each glazed aluminum curtain wall.
- D. Product Test Reports: For glazed aluminum curtain walls, for tests performed by manufacturer and witnessed by a qualified testing agency.
- E. Quality-Control Program: Developed specifically for Project, including fabrication and installation, according to recommendations in ASTM C 1401. Include periodic quality-control reports.
- F. Source quality-control reports.
- G. Field quality-control reports.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For glazed aluminum curtain walls to include in maintenance manuals.
- B. Maintenance Data for Structural Sealant: For structural-sealant-glazed curtain walls to include in maintenance manuals. Include ASTM C 1401 recommendations for post-installation-phase quality-control program.
- C. Provide warranty in accordance with this specification section, in addition to the warranty and/or guarantee requirements stated elsewhere in Contract Documents including, but not limited to, Part III: Contract Documents Contract, Part IV: General Conditions, and Division 1 of technical specifications.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An entity must be used that employs installers and supervisors who are trained and approved by manufacturer.
- B. Laboratory Mockup Testing Agency Qualifications: Qualified according to ASTM E 699 for testing indicated
- C. Testing Agency Qualifications: Qualified according to ASTM E 699 for testing indicated.
- D. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.
 - 1. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.
- E. Structural-Sealant Glazing: Comply with ASTM C 1401 for design and installation of curtain wall assemblies.

1.7 WARRANTY

- A. Provide warranty in accordance with this specification section, in addition to the warranty and/or guarantee requirements stated elsewhere in Contract Documents including, but not limited to, Part III: Contract Documents Contract, Part IV: General Conditions, and Division 1 of technical specifications.
- B. Warranty: Provide manufacturer's written warranty in which manufacturer agrees to repair or replace Glazed Aluminum Curtain Wall that fail in materials or workmanship within specified warranty period ten (10) years. Manufacturer may not disclaim any implied warranty such as merchantability or fitness for a particular purpose. Both the expressed and implied terms of the warranty shall be read together for the benefit of the City.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including, but not limited to, excessive deflection.
 - b. Noise or vibration created by wind and thermal and structural movements.
 - c. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - d. Water penetration through fixed glazing and framing areas.
 - e. Failure of operating components.
- C. Warranty: Provide manufacturer's written warranty in which manufacturer agrees to repair or replace Aluminum that fail in materials or workmanship within specified warranty period twenty (20) years. Manufacturer may not disclaim any implied warranty such as merchantability or fitness for a particular purpose. Both the expressed and implied terms of the warranty shall be read together for the benefit of the City.
 - 1. Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
 - b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.

- c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design glazed aluminum curtain walls.
- B. General Performance: Comply with performance requirements specified, as determined by testing of glazed aluminum curtain walls representing those indicated for this Project without failure due to defective manufacture, fabrication, installation, or other defects in construction.
 - 1. Glazed aluminum curtain walls shall withstand movements of supporting structure including, but not limited to, story drift, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
 - 2. Failure also includes the following:
 - a. Thermal stresses transferring to building structure.
 - b. Glass breakage.
 - c. Noise or vibration created by wind and thermal and structural movements.
 - d. Loosening or weakening of fasteners, attachments, and other components.
 - e. Failure of operating units.
- C. Structural Loads:
 - 1. Wind Loads: As indicated on Drawings.
 - 2. Other Design Loads: As indicated on Drawings
- D. Seismic Performance: Glazed aluminum curtain walls shall withstand the effects of earthquake motions determined according to AAMA 501.4, system must meet design displacement (elastic) of 0.010 x the story height and ultimate displacement (inelastic) of 1.5 x the design displacement.
 - 3. Seismic Drift Causing Glass Fallout: Complying with criteria for passing based on building occupancy type when tested according to AAMA 501.6 at design displacement and 1.5 times the design displacement.
 - 4. Vertical Interstory Movement: Complying with criteria for passing based on building occupancy type when tested according to AAMA 501.7 at design displacement and 1.5 times the design displacement.
- E. Energy Performance: Certify and label energy performance according to NFRC as follows:
 - 1. Thermal Transmittance (U-factor): Fixed glazing and framing areas shall have U-factor of not more than 0.45 Btu/sq. ft. x h x deg F as determined according to NFRC 100.
 - 2. Solar Heat Gain Coefficient: Fixed glazing and framing areas shall have a solar heat gain coefficient of no greater than 0.35 as determined according to NFRC 200.
 - 3. Condensation Resistance: Fixed glazing and framing areas shall have an NFRC-certified condensation resistance rating of no less than 15 as determined according to NFRC 500.
- F. Noise Reduction: Test according to ASTM E 90, with ratings determined by ASTM E 1332, as follows:

1. Outdoor-Indoor Transmission Class: Minimum 34

- G. Thermal Movements: Allow for thermal movements resulting from ambient and surface temperature changes:

1. Temperature Change: 120 deg F ambient; 180 deg F material surfaces.
2. Thermal Cycling: No buckling; stress on glass; sealant failure; excess stress on framing, anchors, and fasteners; or reduction of performance when tested according to AAMA 501.5.
 - a. High Exterior Ambient-Air Temperature: That which produces an exterior metal-surface temperature of 180 deg F
 - b. Low Exterior Ambient-Air Temperature: 0 deg F

2.2 MANUFACTURERS

- A. Source Limitations: Obtain all components of curtain wall system, including framing, entrances, and accessories, from single manufacturer.
- B. Manufactured by Kawneer 1600 Wall System 1 Curtain Wall 2-1/2" outside glazes pressure plate format or approved equal.
1. System depth 7-1/2", pressure cap as indicated on Drawings, 1" insulating glazing unit.

2.3 FRAMING

- A. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.
1. Construction: Thermally broke
 2. Glazing System: Retained mechanically with gaskets on four sides
 3. Glazing Plane: Front
 4. Finish: Clear anodic finish
 5. Fabrication Method: factory
- B. Pressure Caps: Manufacturer's standard aluminum components that mechanically retain glazing.
1. Include snap-on aluminum trim that conceals fasteners from full line of size options, per drawings.
 2. Size: 3" deep for perimeter and vertical components. 2" for horizontal components.
- C. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.
- D. Materials:
1. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
 - a. Sheet and Plate: ASTM B 209
 - b. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221
 - c. Extruded Structural Pipe and Tubes: ASTM B 429/B 429M.

- d. Structural Profiles: ASTM B 308/B 308M.
- 2. Steel Reinforcement: Manufacturer's standard zinc-rich, corrosion-resistant primer complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods according to recommendations in SSPC-SP COM, and prepare surfaces according to applicable SSPC standard.
 - a. Structural Shapes, Plates, and Bars: ASTM A 36/A 36M.
 - b. Cold-Rolled Sheet and Strip: ASTM A 1008/A 1008M.
 - c. Hot-Rolled Sheet and Strip: ASTM A 1011/A 1011M.

2.4 ENTRANCES

- A. Entrances: Comply with Section 084113 "Aluminum-Framed Entrances and Storefronts."
- B. Materials:
 - 1. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
 - a. Sheet and Plate: ASTM B 209
 - b. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221
 - c. Extruded Structural Pipe and Tubes: ASTM B 429/B 429M.
 - d. Structural Profiles: ASTM B 308/B 308M.

2.5 GLAZING

- A. Glazing: Comply with Section 08 80 00 "Glazing."
- B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers. Comply with Section 08 80 00 "Glazing."
- C. Glazing Sealants: As recommended by manufacturer.
- D. Structural Glazing Sealants: ASTM C 1184, chemically curing silicone formulation that is compatible with system components with which it comes in contact, specifically formulated and tested for use as structural sealant and approved by structural-sealant manufacturer for use in curtain-wall assembly indicated.
 - 1. Color: As selected by Architect from manufacturer's full range of colors
- E. Weatherseal Sealants: ASTM C 920 for Type S; Grade NS; Class 25; Uses NT, G, A, and O; chemically curing silicone formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and structural-sealant-glazed curtain-wall manufacturers for this use.
 - 1. Color: Match structural sealant.

2.6 ACCESSORIES

- A. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.
 - 1. Use self-locking devices where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration.
 - 2. Reinforce members as required to receive fastener threads.
 - 3. Use exposed fasteners with countersunk Phillips screw heads, finished to match framing system
- B. Anchors: Three-way adjustable anchors with minimum adjustment of 1 inch that accommodate fabrication and installation tolerances in material and finish compatible with adjoining materials and recommended by manufacturer.
 - 1. Concrete and Masonry Inserts: Hot-dip galvanized cast-iron, malleable-iron, or steel inserts complying with ASTM A 123/A 123M or ASTM A 153/A 153M requirements.
- C. Concealed Flashing: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding flashing compatible with adjacent materials
- D. Bituminous Paint: Cold-applied asphalt-mastic paint complying with SSPC-Paint 12 requirements except containing no asbestos, formulated for 30-mil thickness per coat.

2.7 FABRICATION

- A. Form or extrude aluminum shapes before finishing.
- B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.
- C. Fabricate components that, when assembled, have the following characteristics:
 - 1. Profiles that are sharp, straight, and free of defects or deformations.
 - 2. Accurately fitted joints with ends coped or mitered.
 - 3. Physical and thermal isolation of glazing from framing members.
 - 4. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
 - 5. Provisions for field replacement of glazing from exterior
 - 6. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
- D. Fabricate components to resist water penetration as follows:
 - 1. Internal guttering system or other means to drain water passing joints, condensation occurring within framing members, and moisture migrating within glazed aluminum curtain wall to exterior.
 - 2. Pressure-equalized system or double barrier design with primary air and vapor barrier at interior side of glazed aluminum curtain wall and secondary seal weeped and vented to exterior.
- E. Curtain-Wall Framing: Fabricate components for assembly using manufacturer's standard assembly method

F. Factory-Assembled Frame Units:

1. Rigidly secure nonmovement joints.
2. Prepare surfaces that are in contact structural sealant according to sealant manufacturer's written instructions to ensure compatibility and adhesion.
3. Preparation includes, but is not limited to, cleaning and priming surfaces.
4. Seal joints watertight unless otherwise indicated.
5. Install glazing to comply with requirements in Section 088000 "Glazing."

G. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

2.8 ALUMINUM FINISHES

- A. Dark Bronze Anodic Finish: AAMA 611 or thicker.

2.9 SOURCE QUALITY CONTROL

- A. Structural Sealant: Perform quality-control procedures complying with ASTM C 1401 recommendations including, but not limited to, assembly material qualification procedures, sealant testing, and assembly fabrication reviews and checks.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prepare surfaces that will contact structural sealant according to sealant manufacturer's written instructions to ensure compatibility and adhesion. Preparation includes, but is not limited to, cleaning and priming surfaces.

3.3 INSTALLATION

- A. General:
1. Comply with manufacturer's written instructions.
 2. Do not install damaged components.
 3. Fit joints to produce hairline joints free of burrs and distortion.
 4. Rigidly secure nonmovement joints.
 5. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.

6. Where welding is required, weld components in concealed locations to minimize distortion or discoloration of finish. Protect glazing surfaces from welding.
7. Seal joints watertight unless otherwise indicated.

B. Metal Protection:

1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with primer, applying sealant or tape, or installing nonconductive spacers as recommended by manufacturer for this purpose.
2. Where aluminum is in contact concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.

C. Install components to drain water passing joints, condensation occurring within framing members, and moisture migrating within glazed aluminum curtain wall to exterior.

D. Install components plumb and true in alignment with established lines and grades.

E. Install operable units level and plumb, securely anchored, and without distortion. Adjust weather-stripping contact and hardware movement to produce proper operation.

F. Install glazing as specified in Section 08 80 00 "Glazing."

1. Prepare surfaces that will contact structural sealant according to sealant manufacturer's written instructions to ensure compatibility and adhesion. Preparation includes, but is not limited to, cleaning and priming surfaces.

G. Install weatherseal sealant according to Section 07 92 00 "Joint Sealants" and according to sealant manufacturer's written instructions to produce weatherproof joints. Install joint filler behind sealant as recommended by sealant manufacturer.

3.4 ERECTION TOLERANCES

A. Erection Tolerances: Install glazed aluminum curtain walls to comply with the following maximum tolerances:

1. Plumb: 1/8 inch in 10 feet
2. Level: 1/8 inch in 20 feet
3. Alignment:
 - a. Where surfaces abut in line or are separated by reveal or protruding element up to 1/2 inch wide, limit offset from true alignment to 1/16 inch
 - b. Where surfaces are separated by reveal or protruding element from 1/2 to 1 inch wide, limit offset from true alignment to 1/8 inch
 - c. Where surfaces are separated by reveal or protruding element of 1 inch wide or more, limit offset from true alignment to 1/4 inch
4. Location: Limit variation from plane to 1/8 inch in 12 feet, 1/2 inch over total length.

3.5 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.

- B. Test Area: Perform tests on [one bay, representative areas of glazed aluminum curtain walls

END OF SECTION

SECTION 09 67 23 - RESINOUS FLOORING

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. This section includes the following:
 - 1. Resinous flooring system as shown on the drawings and in schedules.
- B. Related sections include the following:
 - 1. Cast-in-Place Concrete, section 03 30 00
 - 2. Concrete Curing, section 03 39 00
- A. Air Quality Management Districts
 - 1. South Coast Air Quality Management District (SCAQMD)
 - 2. Unites States Environmental Protection Agency
- B. ASTM International (ASTM)
 - 1. D4258, Standard Practice for Surface Cleaning Concrete for Coating
 - 2. D4259, Standard Practice for Abrading Concrete
- 3. D7243, Standard Test Method for Pull-off Strength of Coatings on Concrete Using Portable Adhesion Testers.
- 4. D7091 - Standard Practice for Nondestructive Measurement of Dry Film Thickness of Nonmagnetic Coatings Applied to Ferrous Metals and Nonmagnetic, Nonconductive Coatings Applied to Non-Ferrous Metals.
- C. International Concrete Repair Institute (ICRI)
 - 1. ICRI 310.2 – Surface Preparation for Concrete
 - 2. CSP – Concrete Surface Profile
- E. The Association for Materials Protection and Performance (AMPP)
 - 1. SSPC-SP 13 – Concrete Surface Prep
 - 2. SSPC-TR 5- Joint guide for concrete coatings
 - 3. SSPC-Guide 12 – Illumination

1.3 SYSTEM DESCRIPTION

- A. The work shall consist of preparation of the substrate, the furnishing and application of a cementitious urethane based self-leveling seamless flooring system with Macro or Micro size decorative colored chip broadcast, epoxy resin broadcast and aliphatic resinous topcoat.
- B. The system shall have the color and texture as specified by the Owner with a nominal thickness of 3/16 inch. It shall be applied to the prepared area(s) as defined in the plans strictly in accordance with the Manufacturer's recommendations.
- C. Cove base (if required) to be applied where noted on plans and per manufacturers standard details unless otherwise noted

1.4 SUBMITTALS

- A. Product Data: Latest edition of Manufacturer's literature including performance data and installation procedures.
- B. Manufacturer's Material Safety Data Sheet (MSDS) for each product being used.
- C. Samples: A 3 x 3 inch square sample of the proposed system. Color, texture, and thickness shall be representative of overall appearance of finished system subject to normal tolerances.
- D. Mock-up: provide 4'x4' to be approved in writing by Architect.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of
Flooring systems required for this Project.
 - 1. Engage an installer who is approved in writing by resinous flooring manufacturer as qualified to apply resinous flooring systems indicated.
 - 2. Installer Letter of Qualification: Installer to provide letter stating that they have been in business for at least 10 years and listing 5 projects in the last 2 years of similar scope. For each project provide: project name, location, date of installation, contact information, size of project, and manufacturer of materials with system information.
 - 3. No requests for substitutions shall be considered that would change the generic type of the specified System.
- B. The Applicator shall have experience in installation of the flooring system as confirmed by the manufacturer in all phases of surface preparation and application of the product specified.
- C. No requests for substitutions shall be considered that would change the generic type of the specified System.
- D. System shall be in compliance with requirements of United States Department of Agriculture (USDA), Food, Drug Administration (FDA), and local Health Department.
- E. A pre-installation conference shall be held between Applicator, General Contractor and the Owner to review and clarification of this specification, application procedure, quality control, inspection and acceptance criteria and production schedule.
- D. Mockup: Include mockups as part of the work of this specification section.
 - 1. Test coating adhesion to verify surface preparation.
 - 2. Conformance with ASTM D 1308-20, section 3.1.2 for one-hour, 24-hour, and 7-day exposures at 75 deg F and 50 percent relative humidity
 - a. Daily pressure washing with Hydrogen Peroxide disinfectant.
 - 3. The Architect reviews mockups for conformance to the Contract Documents and approves or rejects them as the standard by which subsequent work is evaluated.
 - 4. Revise field samples and repeat reviews, including arranging all revisions and paying all revision costs, until accepted in writing by the Architect. Final acceptance of floor coatings is made from field samples.
 - 5. After acceptance, promptly identify and protect field samples for reference until Substantial Completion.
 - 6. Approved field samples may remain part of the work after being identified for future reference.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Packing and Shipping
 - 1. All components of the system shall be delivered to the site in the Manufacturer's packaging, clearly identified with the product type and batch number.
- B. Storage and Protection
 - 1. The Applicator shall be provided with a dry storage area for all components. The area shall be between 60 F and 85 F, dry, out of direct sunlight and in accordance with the Manufacturer's recommendations and relevant health and safety regulations.
 - 2. Copies of Material Safety Data Sheets (MSDS) for all components shall be kept on site for review by the Engineer or other personnel.
- C. Waste Disposal
 - 1. The Applicator shall be provided with adequate disposal facilities for non-hazardous waste generated during installation of the system.

1.7 PROJECT CONDITIONS

A. Site Requirements

1. Application may proceed while air, material and substrate temperatures are between 60 F and 85 F providing the substrate temperature is above the dew point. Outside of this range, the Manufacturer shall be consulted.
2. The relative humidity in the specific location of the application shall be less than 85 % and the surface temperature shall be at least 5 F above the dew point.
3. Ventilation: Maintain adequate ventilation during and after installation and curing, setting, or drying. Where natural ventilation is inadequate, use forced-air circulation or mechanical ventilation as necessary for the installations indicated.
4. The Applicator shall be supplied with adequate lighting equal to the final lighting level during the preparation and installation of the system.

B. Conditions of new concrete to be coated with cementitious urethane material.

1. Concrete shall be moisture cured for a minimum of 3 days and have fully cured a minimum of 5 days in accordance with ACI-308 prior to the application of the coating system pending moisture tests.
2. Concrete shall have a flat rubbed finish, float or light steel trowel finish (a hard steel trowel finish is neither necessary nor desirable).
3. Sealers and curing agents should not to be used.
4. Concrete shall have a minimum design strength of 3,500 psi. and a maximum water/cement ratio of 0.45
5. Concrete surfaces on grade shall have been constructed with a vapor barrier to protect against the effects of vapor transmission and possible delamination of the system.

C. Safety Requirements

1. The Owner shall be responsible for the removal of foodstuffs from the work area.
2. Non-related personnel in the work area shall be kept to a minimum.

1.8 WARRANTY

- A. Sherwin-Williams warrants that material shipped to buyers at the time of shipment substantially free from material defects and will perform substantially to Sherwin-Williams published literature if used in accordance with the latest prescribed procedures and prior to the expiration date.
- B. Sherwin-Williams liability with respect to this warranty is strictly limited to the value of the material purchase. One-year standard material warranty. Extended warranties are upon agreement with the Owner and Sherwin Williams.

PART 2 – PRODUCTS

2.1 FLOORING

- A. Sherwin-Williams Hybri-Flex AC (self leveling broadcast colored chip), epoxy resin broadcast and aliphatic resinous topcoat seamless flooring system.
 1. System Materials:
 - a. Topping: Sherwin-Williams Poly-Crete SL resin, SL hardener and SL aggregate.
 - b. The colored chips shall be Sherwin-Williams Decorative Chips. Color as selected by Architect from manufacturer's full range.
 - c. Broadcast coat: Sherwin-Williams Resuflor Glaze resin and hardener.
 - d. Topcoat: Sherwin-Williams Accelera resin and hardener.
 2. Patch Materials
 - a. Shallow Fill and Patching: Use Sherwin-Williams Poly-Crete MD (up to ¼ inch).
 - b. Deep Fill and Sloping Material (over ¼ inch): Use Sherwin-Williams Poly-Crete WR.
 3. Waterproofing Membrane: Sherwin Williams Resuflor 3555, 20-30 mils WFT.

4. Crack and Joint Filler: "Resuflor 3555" manufactured by The Sherwin Williams Co, or equal.
5. Cove Base: Molded from flooring resin material.
6. Other Accessories: Provide accessories and secondary items normally furnished or necessary for
a complete installation; or supplied, required, recommended, or accepted by the manufacturer for
actual in-service conditions applicable to the project.

2.2 MANUFACTURER

- A. The Sherwin-Williams High Performance Flooring, 866-540-1299 swflooring@sherwin.com Website: <https://industrial.sherwin-williams.com/na/us/en/resin-flooring.html> ; rick.f.martinez@sherwin.com
- B. Manufacturer of Approved System shall be single source and made in the USA.
- C. Alternates must be approved 10 days prior to bid.

2.3 PRODUCT REQUIREMENTS

A. Topping	Poly-Crete SL
1. Percent Reactive 2. VOC 3. Bond Strength to Concrete ASTM D 4541 4. Compressive Strength, ASTM C 579 5. Tensile Strength, ASTM D 638 6. Flexural Strength, ASTM D 790 7. Impact Resistance @ 125 mils, MIL D-3134, No visible damage or deterioration	100% 0 g/L 400 psi, substrates fails 9,000 psi 2,175 psi 5,076 psi 160 inch lbs
B. Broadcast Coat	Resuflor Glaze
1. Percent Solids 2. VOC 3. Compressive Strength, ASTM D 695 4. Tensile Strength, ASTM D 638 5. Flexural Strength, ASTM D 790 6. Abrasion Resistance, ASTM D 4060 C-10 Wheel, 1,000 gm load, 1,000 cycles 7. Flame Spread/NFPA-101, ASTM E 84 8. Impact Resistance MIL D-24613 delamination 9. Water Absorption. MIL D-24613 10. Potlife @ 70 F	100 % 3.8 g/L 11,200 psi 2,100 psi 5,100 psi 29 mg loss Class A 0.0007 inches, no cracking or Nil 20 minutes
C. Grout and Topcoat	Accelera
1. Percent Solids 2. VOC 3. Bond Strength to Concrete ASTM D 4541 4. Hardness, Shore D ASTM D2240 5. Compressive Strength, ASTM C579 6. Tensile Strength, ASTM D638 7. Abrasion Resistance, ASTM D4060 C-17 Wheel, 1,000 gm load, 1,000 cycles 8. Potlife @ 70 F 9. Gloss (ASTM D523) 60° 10. Coefficient of Friction (ASTM D2047)	100 % 0 g/L 400 psi, substrates fails 70 18,000 psi 2,600 psi 27 mg loss 7 – 10 minutes 90 0.8

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas and conditions, with Applicator present, for compliance with requirements for maximum moisture content, installation tolerances and other conditions affecting flooring performance.
 - 1. Verify that substrates and conditions are satisfactory for flooring installation and comply with requirements specified.

3.2 PREPARATION

A. General

- 1. New and existing concrete surfaces shall be free of oil, grease, curing compounds, loose particles, moss, algae growth, laitance, friable matter, dirt, and bituminous products.
- 2. Moisture Testing: Perform tests recommended by manufacturer and as follows.
 - a. Perform anhydrous calcium chloride test ASTM F 1869-98. Application will proceed only when the vapor/moisture emission rates from the slab is less than and not higher than 20 lbs/1,000 sf/24 hrs.
 - b. Perform relative humidity test using in situ probes, ASTM F 2170. Proceed with installation only after substrates have a maximum 99% relative humidity level measurement.
 - c. If the vapor drive exceeds 99% relative humidity or 20 lbs/1,000 sf/24 hrs then the Owner and/or Engineer shall be notified and advised of additional cost for the possible installation of a vapor mitigation system that has been approved by the manufacturer or other means to lower the value to the acceptable limit.
- 3. Mechanical surface preparation
 - a. Shot blast all surfaces to receive flooring system with a mobile steel shot, dust recycling machine (Blastrac or equal). All surface and embedded accumulations of paint, toppings hardened concrete layers, laitance, power trowel finishes and other similar surface characteristics shall be completely removed leaving a bare concrete surface having a minimum profile of CSP 4-5 as described by the International Concrete Repair Institute.
 - b. Floor areas inaccessible to the mobile blast machines shall be mechanically abraded to the same degree of cleanliness, soundness and profile using diamond grinders, needle guns, bush hammers, or other suitable equipment.
 - c. Where the perimeter of the substrate to be coated is not adjacent to a wall or curb, a minimum 1/4 inch key cut shall be made to properly seat the system, providing a smooth transition between areas. The detail cut shall also apply to drain perimeters and expansion joint edges.
 - d. Cracks and joints (non-moving) greater than 1/8 inch wide are to be chiseled or chipped-out and repaired per manufacturer's recommendations.
- 4. At spalled or worn areas, mechanically remove loose or delaminated concrete to a sound concrete and patch per manufacturer's recommendations.

3.3 APPLICATION

A. General

- 1. The system shall be applied in Four distinct steps as listed below:
 - a. Substrate preparation
 - b. Topping/overlay application with colored chip broadcast.
 - c. Resin application with colored chip broadcast.
 - d. Topcoat application.

2. Immediately prior to the application of any component of the system, the surface shall be dry and any remaining dust or loose particles shall be removed using a vacuum or clean, dry, oil-free compressed air.
3. The handling, mixing and addition of components shall be performed in a safe manner to achieve the desired results in accordance with the Manufacturer's recommendations.
4. The system shall follow the contour of the substrate unless pitching or other leveling work has been specified by the Architect.
5. A neat finish with well-defined boundaries and straight edges shall be provided by the Applicator.

B. Topping

1. The topping shall be applied as a self-leveling system as specified by the Architect. The topping shall be applied in one lift with a nominal thickness of 1/8 inch.
2. The topping shall be comprised of three components, a resin, hardener and filler as supplied by the Manufacturer.
3. The hardener shall be added to the resin and thoroughly dispersed by suitably approved mechanical means. SL Aggregate shall then be added to the catalyzed mixture and mixed in a manner to achieve a homogenous blend.
4. The topping shall be applied over horizontal surfaces using 1/2 inch "v" notched squeegee, trowels or other systems approved by the Manufacturer.
5. Immediately upon placing, the topping shall be degassed with a loop roller.
6. Colored chips shall be broadcast to excess into the wet material, 1/4" and 1/8" flakes at the rate of 0.10 lbs/sf, 1/16" flakes at the rate of 0.15 lbs/sf.
7. Allow material to fully cure. Vacuum, sweep and/or blow to remove all loose aggregate.

C. Broadcast Coat

1. The 2nd broadcast coat shall be applied as specified by the Architect.
2. The broadcast coat shall be comprised of two components, a resin, and hardener as supplied by the Manufacturer and mixed in the ratio of 2 parts resin to 1 part hardener.
3. The resin shall be added to the hardener and thoroughly mixed by suitably approved mechanical means.
6. The broadcast coat shall be applied over horizontal surfaces using squeegee and back rolled at the rate of 100 sf/gal.
5. Colored chips shall be broadcast to excess into the wet material, 1/4" and 1/8" flakes at the rate of 0.10 lbs/sf, 1/16" flakes at the rate of 0.15 lbs/sf.
6. Allow material to fully cure. Vacuum, sweep and/or blow to remove all loose aggregate.

E. Topcoat

1. The grout coat shall be comprised of ACCELERA resin and hardener mixed per the manufacturer's instructions.
2. The grout coat shall be applied using a squeegee and cross rolled with a 3/8 inch nap roller at the rate of 65 sq ft / kit. .
3. The finished floor will have a nominal thickness of 3/16 inch.

*** Specifier's Note *** If smoother finisher is required, apply a second Accelera top coat using a squeegee and cross roll with a 3/8 inch nap roller at the rate of 200 SF/kit.

3.4 FIELD QUALITY CONTROL

A. Tests, Inspection

1. The following tests shall be conducted by the Applicator:

- a. Temperature
 - 1. Air, substrate temperatures and, if applicable, dew point.
- b. Coverage Rates
 - 1. Rates for all layers shall be monitored by checking quantity of material used against the area covered.

3.5 CLEANING AND PROTECTION

- A. Cure flooring material in compliance with manufacturer's directions, taking care to prevent their contamination during stages of application and prior to completion of the curing process.
- B. Remove masking. Perform detail cleaning at floor termination, to leave cleanable surface for subsequent work of other sections.

END OF SECTION

SECTION 09 96 56 - EPOXY WALL COATING

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. This section includes the following:
 - 1. Epoxy wall coating system as shown on the drawings and in schedules.
- B. Related sections include the following:
 - 1. Concrete Curing, section 03 39 00
 - 2. Unit Masonry, section 04 20 00
 - 3. Plaster and Gypsum Board, section 09 20 00

1.3 SYSTEM DESCRIPTION

- A. The work shall consist of preparation of the substrate, the furnishing and application of a epoxy based wall coating system, with decorative colored Flakes and urethane topcoat. The system shall have the color and texture as specified by the Owner with a nominal thickness of 40 mils. It shall be applied to the prepared area(s) as defined in the plans strictly in accordance with the Manufacturer's recommendations.

1.4 SUBMITTALS

- A. Product Data: Latest edition of Manufacturer's literature including performance data and installation procedures.
- B. Manufacturer's Safety Data Sheet (SDS) for each product being used.
- C. Samples: A 3 x 3 inch square sample of the proposed system. Color, texture, and thickness shall be representative of overall appearance of finished system subject to normal tolerances.
- D. Mock-up: provide 4'x4' to be approved in writing by owner.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of flooring systems required for this Project.
 - 1. Engage an installer who is approved in writing by resinous flooring manufacturer as qualified to apply resinous flooring systems indicated.
 - 2. Installer Letter of Qualification: Installer to provide letter stating that they have been in business for at least 10 years and listing 5 projects in the last 2 years of similar scope. For each project provide: project name, location, date of installation, contact information, size of project, and manufacturer of materials with system information.
 - 3. No requests for substitutions shall be considered that would change the generic type of the specified System.
- B. Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats, and topcoats, from single source from single manufacturer. Provide secondary materials, including patching and fill material, joint sealant, and repair materials, of type and from source recommended by manufacturer of primary materials.
- C. No requests for substitutions shall be considered that would change the generic type of the specified System.
- D. System shall be in compliance with requirements of United States Department of Agriculture (USDA),

Food, Drug Administration (FDA), and local Health Department.

- E. A pre-installation conference shall be held between Applicator, General Contractor and the Owner to review and clarification of this specification, application procedure, quality control, inspection and acceptance criteria and production schedule.
- F. System shall be in compliance with the Indoor Air Quality requirements of California.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Packing and Shipping

- 1. All components of the system shall be delivered to the site in the Manufacturer's packaging, clearly identified with the product type and batch number.

B. Storage and Protection

- 1. The Applicator shall be provided with a storage area for all components. The area shall be between 60 F and 90 F, dry, out of direct sunlight and in accordance with the Manufacturer's recommendations and relevant health and safety regulations.
- 2. Copies of Safety Data Sheets (SDS) for all components shall be kept on site for review by the Engineer or other personnel.

C. Waste Disposal

- 1. The Applicator shall be provided with adequate disposal facilities for non-hazardous waste generated during installation of the system.

1.7 PROJECT CONDITIONS

A. Site Requirements

- 1. Application may proceed while air, material and substrate temperatures are between 60 F and 90 F providing the substrate temperature is above the dew point. Outside of this range, the Manufacturer shall be consulted.
- 2. The relative humidity in the specific location of the application shall be less than 80 % and the surface temperature shall be at least 5 F above the dew point.
- 3. The Applicator shall ensure that adequate ventilation is available for the work area.
- 4. The Applicator shall be supplied with adequate lighting equal to the final lighting level during the preparation and installation of the system.

B. Conditions of substrate to be coated with epoxy material.

- 1. Concrete shall be cured for a minimum of twenty eight days prior to the application of the coating system.
- 2. Block wall mortar joints have cured no less than 7 days under good conditions.
- 3. Sealers and curing agents should not to be used.
- 4. Drywall shall be completely clean and free of any oils, soap residue, and gypsum dust and prepared to a #4 to #5 finish, with setting compound.

C. Safety Requirements

- 1. All open flames and spark-producing equipment shall be removed from the work area prior to commencement of application.
- 2. "No Smoking" signs shall be posted at the entrances to the work area.
- 3. The Owner shall be responsible for the removal of foodstuffs from the work area.
- 4. Non-related personnel in the work area shall be kept to a minimum.

1.8 WARRANTY

- A. Sherwin-Williams warrants that material shipped to buyers at the time of shipment substantially free from material defects and will perform substantially to Sherwin-Williams published literature if used in accordance with the latest prescribed procedures and prior to the expiration date.
- B. Sherwin-Williams liability with respect to this warranty is strictly limited to the value of the material purchase. One-year standard material warranty.

PART 2 – PRODUCTS

2.1 WALL COATING

- A. Sherwin-Williams Resuwall VCA, epoxy-based with Accelera topcoat, flake seamless wall system
 - 1. System Materials:
 - a. Broadcast Coat: Sherwin-Williams Resuflor Gard No Sag resin and hardener.
 - b. Flakes: Sherwin-Williams decorative flakes (1/4" and 1/8") Color as selected by Architect from manufacturer's full range.
 - c. Second Broadcast: Sherwin-Williams Resuflor Glaze resin with Water Clear hardener
 - d. Grout Coat: Sherwin-Williams Accelera resin and hardener.
 - e. Topcoat: Sherwin-Williams Accelera resin and hardener
 - 2. Patch and Sealant Materials
 - a. Shallow Fill and Patching: Use Sherwin-Williams Resuflor Cove Rez
 - b. Grout fill and Resurfacing: Use Sherwin-Williams Resuflor 3513 scratch coat
 - c. Joint Sealant: Use Sherwin-Williams White Lighting Silicone Rubber.

2.2 MANUFACTURER

- A. The Sherwin-Williams Co., 101 W. Prospect Ave., Cleveland, OH 44115,
Website: <https://industrial.sherwin-williams.com/na/us/en/resin-flooring.html>.
Contact email: rick.f.martinez@sherwin.com
- B. Manufacturer of Approved System shall be single source and made in the USA.
- C. Alternates must be approved 10 days prior to bid.

2.3 PRODUCT REQUIREMENTS

First Broadcast Coat	Resuflor Gard No Sag
1. Percent Solids	100 %
2. VOC	3.45 g/L
3. Compressive Strength, ASTM D 695	16,000 psi
4. Tensile Strength, ASTM D 638	3,800 psi
5. Flexural Strength, ASTM D 790	4,000 psi
6. Abrasion Resistance, ASTM D 4060 C-10 Wheel, 1,000 gm load, 1,000 cycles	35 mg loss
7. Flame Spread/NFPA-101, ASTM E 84	Class A
8. Flammability, ASTM D 635	Self Extinguishing
9. Impact Resistance MIL D-3134	0.025 inch Max
10. Water Absorption. MIL D-3134	0.04 %
11. Potlife @ 70 F	20-25 minutes
Second Broadcast Coat	Resuflor Glaze w/ Water Clear Hardener
1. Percent Solids	100 %
2. VOC	3.8 g/L
3. Compressive Strength, ASTM D 695	11,200 psi
4. Tensile Strength, ASTM D 638	2,100 psi
5. Flexural Strength, ASTM D 790	5,100 psi
6. Abrasion Resistance, ASTM D 4060	

C-10 Wheel, 1,000 gm load, 1,000 cycles	29 mg loss
7. Flame Spread/NFPA-101, ASTM E 84	Class A
8. Impact Resistance MIL D-24613 delamination	0.0007 inches, no cracking or
9. Water Absorption. MIL D-24613	Nil
10. Potlife @ 70 F	20 minutes

Grout and Topcoat	Accelera
1. Percent Solids	100 %
2. VOC	0 g/L
3. Bond Strength to Concrete ASTM D 4541	400 psi, substrates fails
4. Hardness, Shore D ASTM D2240	70
5. Compressive Strength, ASTM C579	18,000 psi
6. Tensile Strength, ASTM D638	2,600 psi
7. Abrasion Resistance, ASTM D4060 C-17 Wheel, 1,000 gm load, 1,000 cycles	27 mg loss
8. Potlife @ 70 F	7 – 10 minutes
9. Gloss (ASTM D523) 60°	90
10. Coefficient of Friction (ASTM D2047)	0.8

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas and conditions, with Applicator present, for compliance with requirements for maximum moisture content, installation tolerances and other conditions affecting coating performance.
 1. Verify that substrates and conditions are satisfactory for installation and comply with requirements specified.

3.2 PREPARATION

- A. General
 1. New and existing concrete surfaces shall be free of oil, grease, curing compounds, loose particles, moss, algae growth, laitance, friable matter, and dirt.
 3. Concrete must be dry for 28 days prior to the install of the epoxy wall system.
 4. There shall be no visible moisture present on the surface at the time of application of the system.
 5. Remove loose mortar spatter, joint compounds etc.
 6. Create a surface profile on concrete by means of mechanical prep to proper CSP.
 7. Masonry block shall be clean, dry and free of dust, debris, and other surface contaminants.
 8. Drywall shall be completely clean and free of any oils, soap residue, gypsum dust etc.
 9. Drywall shall be finished to a level 4 and 5 with setting compound to allow for the best adhesion of epoxy wall system.

3.3 APPLICATION

- A. General
 1. The system shall be applied in seven distinct steps as listed below:
 - a. Substrate preparation
 - b. Patching and Resurfacing
 - c. Priming
 - d. Broadcast coat application with flake broadcast
 - c. Second broadcast coat application with Flake broadcast

- d. Grout coat application
- e. Topcoat application
2. The handling, mixing and addition of components shall be performed in a safe manner to achieve the desired results in accordance with the Manufacturer's recommendations.
3. The system shall follow the contour of the substrate.
4. A neat finish with well-defined boundaries and straight edges shall be provided by the Applicator.

B. Priming

Prime walls with Sherwin-Williams Heavy Duty Block Filler to fill any pores in the substrate when applying over concrete or block walls. Consult Sherwin-Williams for block filler at continuous wet areas. After priming, resurface walls to remove grout lines and unevenness of wall.

C. 1st Broadcast Coat

1. The broadcast coat shall be Resuflor Gard No-SAG resin, and hardener.
2. The resin shall be added to the hardener and thoroughly mixed by suitably approved mechanical means.
3. The base coat shall be applied by a roller at the rate of 200 sf/gal to yield a dry film thickness of 8 mils.
4. The Flake will be broadcast into the wet resin at the rate of 0.1-0.12 lb/SF.
5. After curing remove loose Flakes by brushing with a stiff brush and scraping.
6. For smoother finish. Sanding between coats is required.

D. 2nd Broadcast Coat

1. The broadcast coat shall be Resuflor Glaze resin, and Water Clear hardener.
2. The resin shall be added to the hardener and thoroughly mixed by suitably approved mechanical means.
2. The base coat shall be applied by a roller at the rate of 200 sf/gal to yield a dry film thickness of 8 mils.
3. The Flake will be broadcast into the wet resin at the rate of 0.1-0.12 lb/SF.
4. After curing remove loose Flakes by brushing with a stiff brush and scraping.
5. For smoother finish. Sanding between coats is required.

E. Grout Coat

1. The grout coat shall be comprised Accelera resin and hardener.
2. The resin shall be added to the hardener and thoroughly mixed by suitably approved mechanical means.
3. The grout coat shall be applied using a roller at the rate of 200 sf/gal to yield a dry film thickness of 8 mils.
4. For smoother finish. Sanding between coats is required.

F. Topcoat

1. The grout coat shall be comprised Accelera resin and hardener.
2. The resin shall be added to the hardener and thoroughly mixed by suitably approved mechanical means.
3. The grout coat shall be applied using a roller at the rate of 300 sf/gal to yield a dry film thickness of 6 mils
2. The finish system will have a nominal thickness of 40 mils.

3.4 FIELD QUALITY CONTROL

A. Tests, Inspection

1. The following tests shall be conducted and documented by the Applicator:
 - a. Surface Prep
 1. Soundness, Cleanliness, and if applicable, surface profile.
 - b. Temperature
 1. Air, substrate temperatures and, if applicable, dew point.
 - c. Coverage Rates
 1. Rates for all layers shall be monitored by checking quantity of material used against the area covered.

3.5 CLEANING AND PROTECTION

- A. Cure material in compliance with manufacturer's directions, taking care to prevent their contamination during stages of application and prior to completion of the curing process.
- B. Remove masking. Perform detail cleaning to leave cleanable surface for subsequent work of other sections.
- C. Protect surface from adjacent work and damage from other trades.

END OF SECTION

SECTION 10 28 00 - TOILET AND BATH ACCESSORIES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Toilet and bath accessories.
- B. Related Sections include the following:
 - 1. Division 10 Section "Toilet Compartments" for compartments and screens.

1.03 SUBMITTALS

- A. Product Data: Include construction details, material descriptions and thicknesses, dimensions, profiles, fastening and mounting methods, specified options, and finishes for each type of accessory specified.
- B. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required. Use designations indicated in the Toilet and Bath Accessory Schedule and room designations indicated on Drawings in product schedule.

1.04 QUALITY ASSURANCE

- A. Source Limitations: Provide products of same manufacturer for each type of accessory unit and for units exposed to view in same areas, unless otherwise approved by Architect.
- B. Product Options: Accessory requirements, including those for materials, finishes, dimensions, capacities, and performance, are established by specific products indicated in the Toilet and Bath Accessory Schedule.
 - 1. Other manufacturers' products with equal characteristics may be considered. See Division 1 Section "Substitution Procedures."
 - 2. Do not modify aesthetic effects, as judged solely by Architect, except with Architect's approval. Where modifications are proposed, submit comprehensive explanatory data to Architect for review.

1.05 COORDINATION

- A. Coordinate accessory locations with other Work to prevent interference with clearances required for access by disabled persons, proper installation, adjustment, operation, cleaning, and servicing of accessories.
- B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

1.06 WARRANTY

- A. General Warranty: Special warranty specified in this Article shall not deprive City of other rights City may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

- B. Manufacturer's Mirror Warranty: Written warranty, executed by mirror manufacturer agreeing to replace mirrors that develop visible silver spoilage defects within minimum warranty period indicated.
 - 1. Minimum Warranty Period: 15 years from date of Project Acceptance.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Bobrick Washroom Equipment, Inc. (Model numbers indicated)
- B. American Specialities, Inc
- C. Bradley Corporation
- D. Or approved equal.

2.02 MATERIALS

- A. Stainless Steel: ASTM A 666, Type 304, with No. 4 finish (satin), in 0.0312-inch (0.8-mm) minimum nominal thickness, unless otherwise indicated.
- B. Brass: ASTM B 19, leaded and unleaded flat products; ASTM B 16 (ASTM B 16M), rods, shapes, forgings, and flat products with finished edges; ASTM B 30, castings.
- C. Sheet Steel: ASTM A 366/A 366M, cold rolled, commercial quality, 0.0359-inch (0.9-mm) minimum nominal thickness; surface preparation and metal pretreatment as required for applied finish.
- D. Galvanized Steel Sheet: ASTM A 653/A 653M, G60 (Z180).
- E. Chromium Plating: ASTM B 456, Service Condition Number SC 2 (moderate service), nickel plus chromium electrodeposited on base metal.
- F. Baked-Enamel Finish: Factory-applied, gloss-white, baked-acrylic-enamel coating.
- G. Mirror Glass: ASTM C 1036, Type I, Class 1, Quality q2, nominal 6.0 mm thick, with silvering, electroplated copper coating, and protective organic coating complying with FS DD-M-411.
- H. Galvanized Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.
- I. Fasteners: Screws, bolts, and other devices of same material as accessory unit, tamper and theft resistant when exposed, and of galvanized steel when concealed.

2.03 FABRICATION

- A. General: One, maximum 1-1/2-inch- (38-mm-) diameter, unobtrusive stamped manufacturer logo, as approved by Architect, is permitted on exposed face of accessories. On interior surface not exposed to view or back surface of each accessory, provide printed, waterproof label or stamped nameplate indicating manufacturer's name and product model number.
- B. General: Names or labels are not permitted on exposed faces of accessories. On interior surface not exposed to view or on back surface of each accessory, provide printed, waterproof label or stamped nameplate indicating manufacturer's name and product model number.

- C. Surface-Mounted Toilet Accessories: Unless otherwise indicated, fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with continuous stainless-steel hinge. Provide concealed anchorage where possible.
- D. Recessed Toilet Accessories: Unless otherwise indicated, fabricate units of all-welded construction, without mitered corners. Hang doors and access panels with full-length, stainless-steel hinge. Provide anchorage that is fully concealed when unit is closed.
- E. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to City's representative.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
- B. Secure mirrors to walls in concealed, tamper-resistant manner with special hangers, toggle bolts, or screws. Set units level, plumb, and square at locations indicated, according to manufacturer's written instructions for substrate indicated.
- C. Install grab bars to withstand a downward load of at least 250 lbf (1112 N), when tested according to method in ASTM F 446.

3.02 ADJUSTING AND CLEANING

- A. Adjust accessories for unencumbered, smooth operation and verify that mechanisms function properly. Replace damaged or defective items.
- B. Remove temporary labels and protective coatings.
- C. Clean and polish exposed surfaces according to manufacturer's written recommendations.

3.03 TOILET AND BATH ACCESSORY SCHEDULE

- A. Combination Towel Dispenser/Waste Receptacle, B-3803 (1 per restroom):
 - 1. Recessed Type: Designed for nominal 6-inch (100-mm) wall depth with continuous, seamless wall flange; towel dispenser in unit's upper compartment designed to dispense minimum of 600 C-fold or 800 multifold paper towels; waste receptacle in unit's lower compartment with minimum 6-gal. capacity, reusable, vinyl liner; and flush doors on upper and lower compartments with continuous hinges and tumbler locksets.
- B. Grab Bars, B-6806:
 - 1. Stainless-Steel Nominal Thickness: Minimum 0.05 inch (1.3 mm).
 - 2. Mounting: Concealed with manufacturer's standard flanges and anchors.
 - 3. Gripping Surfaces: Manufacturer's standard slip-resistant texture.
 - 4. Outside Diameter: 1-1/2 inches (38 mm) for heavy-duty applications.
- C. Mop and Broom Holder, B-239 (1 per ea Janitor Room):
 - 1. Mop and Broom Holder with Utility Shelf: 36-inch- (914-mm-) long unit fabricated of minimum nominal 0.05-inch- (1.3-mm-) thick stainless steel with shelf; support brackets for wall mounting; three hooks for wiping rags; four spring-loaded, rubber hat, cam-type, mop/broom holders mounted on front of shelf; and approximately 1/4-inch- (6-mm-) diameter, stainless-steel rod suspended beneath shelf for drying rags.

- D. Partition Mounted Combination Seat Cover Dispenser, Sanitary Napkin Disposal, and Toilet Tissue Dispenser, B-357 (1 per each toilet stall)
- E. Recessed Toilet Seat Cover Dispenser and Toilet Tissue Dispenser, B-3091 (1 per men's ADA toilet stall)
- F. Recessed Toilet Seat Cover Dispenser, Sanitary Napkin Disposal, and Toilet Tissue Dispenser, B-3092 (1 per women's ADA toilet stall)
- G. Soap Dispenser, B-8221 (1 per each lavatory basin)
- H. Baby Changing Station, KB310-SSRE, with dual cavity dispensers and bag hook, (1 per each restroom)
- I. Continuous 3/16" thick glass mirror (per Interior elevations)
- J. Shower curtain rod, B-6107 w/ non-translucent vinyl shower curtain, 404-2 (1 per shower)
- K. Folding Shower Seat, B-5181 (1-per shower)
- L. Mirror with Stainless Steel frame and shelf, B-166 (Per Interior elevations)

END OF SECTION

Architectural / Engineering Specifications

The following specifications are a guide to Architectural, Engineering, and Food Service Consultant specification writers for projects utilizing outdoor walk-in refrigeration equipment. The specifications are standard and may vary according to project requirements. Changes will be noted on the project approval print. Polar King International, Inc. reserves the right to change specifications without notice for product improvement.

1.0 GENERAL

- 1.1 The equipment provided shall be factory prefabricated and have unitized design. The equipment will allow installation without assembly and relocation without disassembly.
- 1.2 Delivery and set-in-place are provided by company trucks. Additional cranes may be required.
- 1.3 The walk-in shall have completely piped, charged, and tested refrigeration systems if refrigeration is installed by Polar King.
- 1.4 All electrical conduits shall be surface mounted. Lights and connections between refrigeration components will be factory wired and tested.
- 1.5 The customer shall be responsible for pouring of a concrete pad, connection of electrical power supply to each refrigeration system, and for flashing of unit to building wall (if required).
- 1.6 The walk-in is certified and may bear the label of the following Certification Agencies:
 - A. National Sanitation Foundation (NSF 7)
 - B. Miami-Dade NOA No. 18-0516.05
 - C. U.S. Dept. of Energy 2007 EISA compliant
- 1.7 The walk-in as an assembly is not 3rd party listed. It shall however use listed component parts:
 - A. UL-Listed major refrigeration components
 - B. UL-Listed electrical components
 - C. Third-party listed foam insulation
- 1.8 The walk-in shall comply or can meet the requirements of these construction codes:
 - A. International Building Code (IBC)
 - B. National Electric Code (NEC)

2.0 SIZE AND CAPACITY

- 2.1 The walk-in shall be built to the specified interior and exterior dimensions. Maximum size is limited by highway transport height and width restrictions to 16' wide x 65' long x 11'-4" tall, subject to route taken.
- 2.2 The walk-in shall have sufficient refrigeration capacity to maintain operating temperature. Capacity shall be sized using the ASHRAE design ambient temperature for the customer's location, an average of (3) door openings per hour, and no load from warm products entering unless otherwise requested. The refrigeration system shall be specified to operate on the customer's available power supply.

3.0 STRUCTURE

- 3.1 The walk-in structure is a sandwich composite of fiberglass (FRP) interior and exterior skins bonded to an insulating foam core.
- 3.2 The interior and exterior fiberglass shell shall be completely seamless and will form a one-piece structure. This construction shall be water, rust, dent, and scratch resistant. The exterior shall be coated with an industrial enamel finish. The interior shall have an anti-microbial interior finish.
- 3.3 Partition walls shall be constructed in the same manner as the exterior walls with a minimum 4" foam core.
- 3.4 The roof shall have a crown sloping away from the side with a door.
- 3.5 The structure shall accommodate a live load of 70 PSF with a factor of safety. P.E.-stamped structural calculations can be arranged for specific locations or conditions.
- 3.6 As the walk-in is considered equipment, no fire thermal barrier is included by default. Where considered a building it will be of IBC Type V construction.
- 3.7 Automatic sprinklers will not be installed by default but can be coordinated.

4.0 FLOOR

- 4.1 A 4" insulated (R-28) prefabricated floor shall be standard. The floor shall be reinforced with wood sub floor beneath FRP, which is then bonded to the foam core. A skid resistant surface coating will be applied to the floor surface.
- 4.2 A welded steel frame shall be bonded permanently to the floor exterior for lifting and anchoring connections. This frame raises the structure an additional 1.5" above grade and allows air circulation under the walk-in. Air circulation prevents corrosion and condensation and eliminates the need for an insulated or ventilated slab.
- 4.3 Standard floor shall support 700 pounds concentrated on a 3" diameter area.
- 4.4 Keg duty floor shall support 1,600 pounds concentrated on a 3" diameter area.
- 4.5 Cart duty floor shall support 2,500 pounds concentrated on a 3" diameter area.
- 4.6 Pallet duty floor shall support 5,000 pounds concentrated on a 3" diameter area.

5.0 DOORS

- 5.1 Doors shall be constructed in the same manner, material, and thickness as the walls.
- 5.2 The standard door shall be 36" x 79" with an opening of 33½" x 78".
- 5.3 Doors shall be flush mounted with a magnetic gasket around three sides and an adjustable bottom sweep. When the door is closed it shall form a positive airtight seal. Door gasket shall be installed in retainer strips for easy replacement in the field.
- 5.4 All doors opening into a warmer temperature area shall be supplied with doorframe heaters, which shall supply sufficient heat to prevent condensation or frost accumulation.
- 5.5 Doors shall incorporate a positive snap action latch with adjustable strike. The latch shall be equipped with cylinder lock and inside safety release mechanism to prevent entrapment. The hardware shall be chrome finished and mounted with stainless steel tamper-proof screws.
- 5.6 Standard doors shall be equipped with (3) walk-in style door hinges. They shall be cam-lift type with nylon bearings and have door lift-off capability. Hinges shall be chrome finished.

- 5.7 Doors shall be equipped with vinyl strip curtains and automatic door closers by default.
- 5.8 Doors shall have swing direction and location as shown on the approval print.

6.0 INSULATION

- 6.1 All insulation shall be rigid, unfaced, closed cell polyisocyanurate foam. Standard insulation thickness shall be 4" for coolers and 5" for freezers.
- 6.2 The thermal conductivity (K) shall not exceed .165 (BTU's/in/sq. ft./hr. F). The thermal resistance R-factor shall not be less than 25 for coolers or 32 for freezers.
- 6.3 The insulation shall have an ASTM E-84 Class 1 rating with a flame spread less than 25, and smoke developed of less than 450.

7.0 REFRIGERATION SYSTEM(S)

- 7.1 Refrigeration condensing units and evaporators shall have qualified AWEF scores.
- 7.2 Refrigerant shall be R-404a, R-448a, or approved alternative for state requirements.
- 7.3 Cooler condenser/evaporator selections shall target 80% relative humidity. Humidity will not be controllable by default.
- 7.4 Polar King will install the following components: liquid filter/drier, solenoid valve, compressor high/low pressure controls, thermostat, expansion valve, and a condenser weather hood. Condensing units will have crankcase heaters and low ambient pressure control valves. Freezers will have suction accumulators.
- 7.5 The condensing unit shall be installed on the roof unless otherwise noted. It shall have a weather hood with vents and color matching the walk-in paint color choice.
- 7.6 Field electrical connections will be made at a control enclosure located at the condensing unit, which shall house overcurrent protection and defrost controls. Mechanical controls will be set for (4) defrosts per day with temperature termination and time backup. Electronic controllers will defrost on demand.
- 7.7 Evaporator coils shall be furnished with electronically commutated (EC) fan motors. Condensate drain piping shall be installed with ¾" copper pipe and heat trace for freezers and ¾" PVC pipe for coolers. Pipe will exit the nearest wall and terminate with a 45° elbow.
- 7.8 Northern latitude locations shall have freeze protection equipment installed in coolers. A separate thermostat will engage heat to prevent product freezing when outdoor temperatures drop below freezing.

8.0 LIGHTING

- 8.1 Walk-in shall have factory installed vapor-proof light fixtures. The standard fixture shall have a 100W-equivalent LED bulb with 1600 lumens. All bulbs used shall exceed 40 lumens/Watt efficiency.
- 8.2 One light shall be used for each 50 sq. ft. of interior floor space. This provides a minimum of 10 foot-candles light intensity 30 inches above the floor.
- 8.3 All lights shall be operated with a pre-wired manual switch as standard.

9.0 STANDARD ACCESSORIES

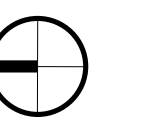
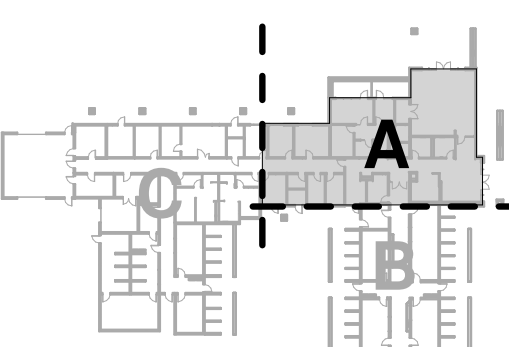
- 9.1 **Digital thermometer:** mounted on the latch side of each compartment door.
- 9.2 **Lock Hasp:** All doors that are not thru-wall or a room partition will be equipped with padlock hasp to prevent unauthorized entry into the walk-in. The hasp shall have an inside release mechanism to prevent entrapment.
- 9.3 **Door drip cap:** Installed on all exterior doors. Redirects rain away from the door gasket.
- 9.4 **Pressure relief vent:** Relieves vacuum due to warm air shrinking as it cools. Freezers will have a heated vent. Coolers will have an unheated vent only if a freezer door opens into that compartment.

10.0 OPTIONAL ACCESSORIES

- 10.1 **Temperature Alarm:** Shall activate when compartment temperature rises above the set point. Signal shall consist of warning light and buzzer located above door latch. Power shall be hard-wired with battery backup in case of power failure.
- 10.2 **Temperature and/or Humidity Recorder:** Recorder shall be graph type with enclosure suitable for outside installation. Recorder shall be complete with graphs and ink.
- 10.3 **Burglar Alarm System:** Shall be Class II rated circuit magnetic type. System shall have contactor mounted in refrigeration system panel for electrical supply from the building's alarm system.
- 10.4 **Exterior Door Ramp:** Sized to match the width of the door. Height adjustable rear feet. Steel versions for cart or pallet jack use and aluminum versions for personnel.
- 10.5 **Spring Loaded Hinges:** A set of three per door shall be installed to provide positive closing of door.
- 10.6 **Vinyl Swing Door:** Clear PVC vinyl panels made from 120-gauge material which meets USDA/FDA and NSF local standards for sanitary codes. Serves the same purpose as strip curtains to reduce cold air loss and/or warm air entry when the door is open but swing out of the way instead of dragging.
- 10.7 **Aluminum Diamond Tread Door Kick Plates:** 18" high x width of door. 1/8" thick. Plates applied to both sides of door.
- 10.8 **Full Bar Security Lock:** Shall be constructed of 1/4" case hardened steel and factory installed on doors which provide outdoor access to unit.
- 10.9 **Through Wall Door Threshold:** Shall be factory provided for installation by others. Shall be 1/2" high x 5" deep x width of door. Threshold shall be aluminum with PVC vinyl frost barrier. Corrosion-resistant plated wood screws for anchoring shall be included.
- 10.10 **Steel Service Door:** Door to provide exterior access to a non-refrigerated compartment. Door shall be constructed of 18 ga. primed steel and equipped with security peephole, panic bar type inside release, ball bearing hinges, key locking latch and felt door sweep. Doorjamb shall be 16 ga. primed steel with foam weather strip and a parallel arm type hydraulic door closer.
- 10.11 **Framed Wall Opening:** Shall be wood stud by default and finished in same manner as the doorjamb.
- 10.12 **Merchandising Doors:** Shall be of the size and number shown on the approval print. Five-tier shelving can be included.
- 10.13 **Wire or Solid Shelving:** Adjustable and sectional types of size, number, and tiers shown on the plans and drawings. Shelving shall be NSF approved and labeled. Shelving system shall be free standing with all necessary posts, shelves, stops, post closures and floor plates for a complete system.



- 10.14 **Explosion-Proof Electrical:** Wiring and electrical components shall be factory installed in conformance with the National Electric Code Section 500. Customer shall classify the hazard level required for both the interior and exterior.
- 10.15 **Three-Way Light Switches:** Shall be flush mounted, vapor proof, and shall allow the lighting system to be turned "ON" or "OFF" at either switch location.
- 10.16 **Saltwater Protection Package:** Shall consist of powder coated door hardware, copper fins on evaporator coil, Heresite coated condenser coil, salt water electrical enclosure, and galvanized steel structural frame.
- 10.17 **Remote Condensing Unit:** Polar King will supply but not install or test the condensing unit. Shall not be supplied with suction piping and insulation, liquid piping, interconnecting wiring and conduit between condensing unit control panel and evaporator electrical panel. A wiring diagram showing the required interconnecting wiring shall be furnished. Refrigerant lines from evaporator shall be capped and the evaporator charged with dry nitrogen. Refrigerant lines from the condensing unit shall be charged with dry nitrogen. Refrigeration pipe sizing, refrigerant charging, and system start-up procedures shall be done according to ASHRAE recommended procedures and in conformance to local codes.
- 10.18 **Shelf Mounted Refrigeration:** Condensing unit(s) to be installed on shelf instead of roof.
- 10.19 **Refrigeration System Switch:** Switch mounted on the evaporator coil shall be wired to shut off evaporator fans and cause the system to pump down when switch is turned to the "OFF" position.
- 10.20 **Floor Drain:** A floor drain shall be factory installed with drainpipe exiting the side of a cooler wall. Floor drain shall consist of 24" x 24" x 3/4" recessed floor pan catch basin, 1" diameter drain screen, 1" PVC pipe drain with internal trap and a 1" diameter x 2" long male extension beyond sidewall of unit for easy on-site connection.
- 10.21 **Pallet Bumper Guard:** 3/4" plywood x 12" tall inlaid at base of walls to prevent pallet bump damage.
- 10.22 **Exterior Flood Light:** Fixture shall have one 150-watt equivalent flood lamp and photoelectric switch.
- 10.23 **Exterior Finishes:** Factory installed options for stucco, vinyl siding, wood fencing and faux-brick.
- 10.24 **Nailer Trim:** Shall be provided according to plans and drawings for attachment of siding, stucco, or other decorative material after the unit is set in place.
- 10.25 **Roof Flashing Kit:** Supplied but not factory installed. Elastoform flashing kit shall consist of 12" wide rubber material; 45° cant strip (filler strip); splice adhesive (Firestone SA-1065 or equivalent) and predrilled termination bar. Additional items to be supplied by contractor include fasteners (screws) for termination bar and silicone sealant.
- 10.26 **Sidewall Flashing Kit:** Supplied but not factory installed. Shall consist of PVC flashing (1" x 5" L-shape PVC material painted to match the exterior color of the walk-in. Additional items to be supplied by the contractor include fasteners (screws or rivets), construction adhesive and silicone sealant.
- 10.27 **One Way Sloped Roof:** Roof shall slope away from the door.



LEGEND

- DOOR
- STOREFRONT/CURTAIN WALL
- AREA PLAN MATCHLINE
- ABOVE
- DOOR REFERENCE NUMBER
- RATED DOOR REFERENCE NUMBER
- STOREFRONT REFERENCE NUMBER

WALL LEGEND

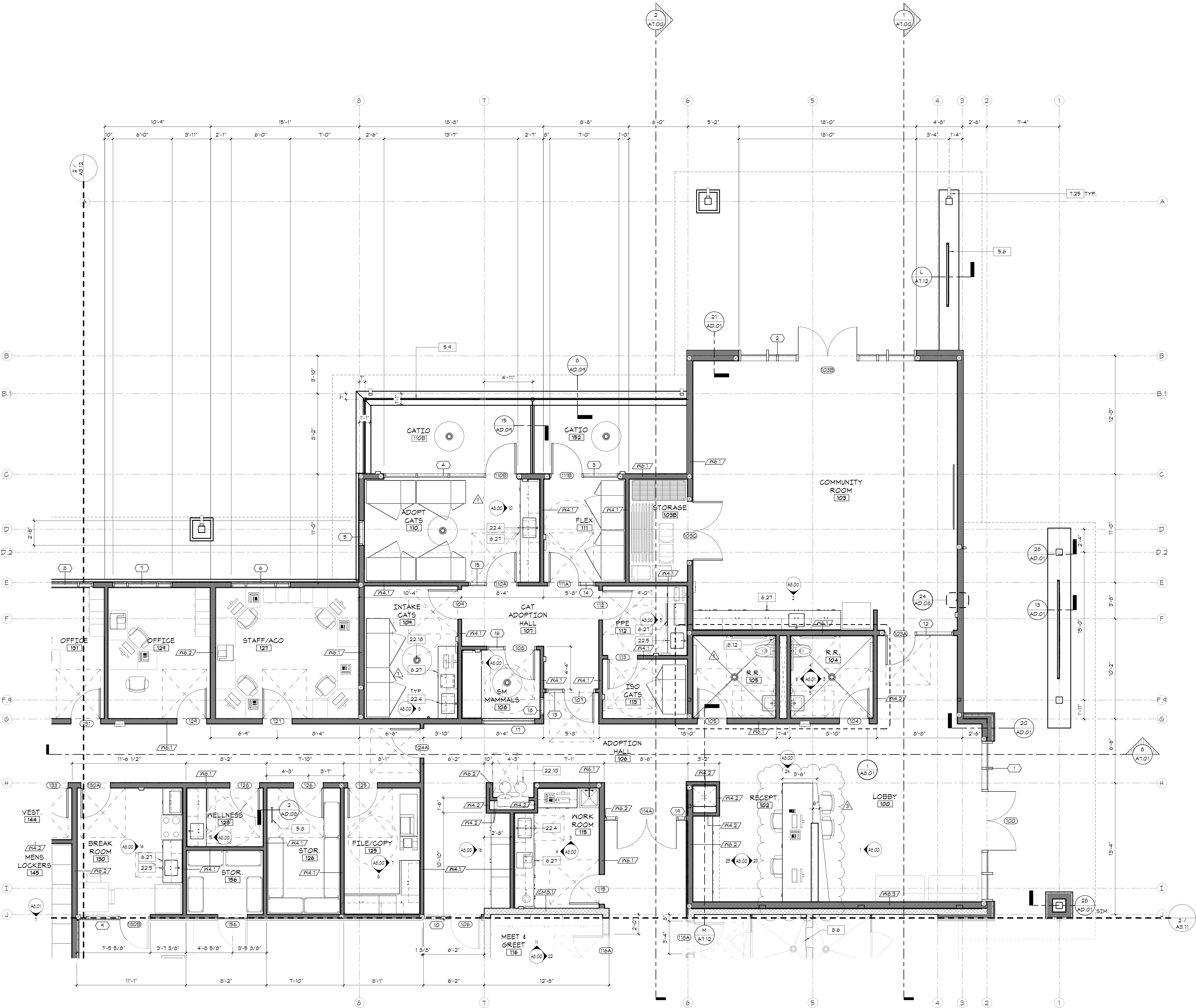
- 2x4 WOOD STUDS @ 16" O.C. W/ R-15 INSULATION, FULL HEIGHT SEE DETAIL
AD.01
- 2x4 WOOD STUDS @ 16" O.C. W/ R-15 INSULATION, 6' ABOVE CEILING SEE DETAIL
AD.01
- 2x6 WOOD STUDS @ 16" O.C. W/ R-19 INSULATION, FULL HEIGHT SEE DETAIL
AD.01
- 2x6 WOOD STUDS @ 16" O.C. W/ R-19 INSULATION, 6' ABOVE CEILING SEE DETAIL
AD.01
- CMB.1 - 8x8x16 CMU WALL, FULL HEIGHT - SEE DETAIL
AD.01
- CMB.3 - 8x8x16 CMU WALL, PARTIAL HEIGHT - SEE DETAIL
AD.01
- RG.1 - 1-1/2" METAL STUDS @ 16" O.C. W/ R-15 INSULATION, FULL HEIGHT SEE DETAIL
AD.01
- 1-HR M4.1 - 2x4 WOOD STUDS @ 16" O.C. W/ R-15 INSULATION, FULL HEIGHT, SEE DETAIL
AD.02
- 1-HR M6.1 - 2x6 WOOD STUDS @ 16" O.C. W/ R-19 INSULATION, FULL HEIGHT, SEE DETAIL
AD.02

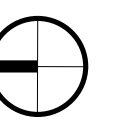
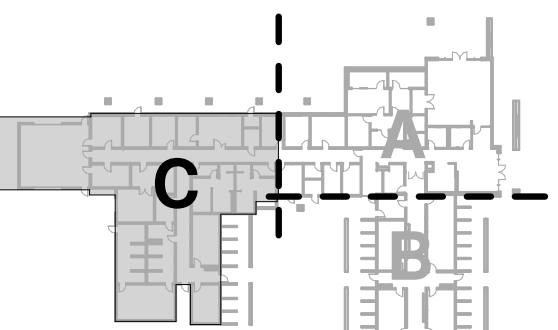
GENERAL NOTES

- UNLESS OTHERWISE NOTED OR INDICATED, ALL DIMENSIONS SHOWN ARE TO FACE OF FRAMING, CONC. SLAB AND/OR GHI.
- CONTRACTOR SHALL WORK TOWARD DIMENSIONS WITH TOLERANCES +/- SHOWN.
- PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING, TV SUPPORT BRACKETS, BULLETIN BOARDS, MARKER BOARDS AND BATHROOM FIXTURES.
- PROVIDE FIRE BLOCKING EVERY 10'-0" VERTICALLY & HORIZONTALLY AT CONCEALED SPACES, WALLS, PARTITIONS, CEILINGS AND INTERSECTIONS - TYP.
- ALL INTERIOR DOORS SHALL HAVE MIN. 18" WIDTH CLEARANCE ON THE SIDE TO WHICH THE DOOR SWINGS FROM THE STRIKE EDGE OF THE DOOR.
- ALL EXTERIOR DOORS SHALL HAVE MIN. 34" WIDTH LEVEL AREA ON THE SIDE TO WHICH THE DOOR SWINGS FROM THE STRIKE EDGE OF THE DOOR.
- EQUIPMENT IS PER OWNER UNLESS OTHERWISE NOTED. CONTRACTOR TO INSTALL ALL GAS, WATER, PLUMBING PER EQUIPMENT REQUIREMENTS. REFER TO OWNER FOR REQUIREMENTS.
- MINIMUM 1/8"12 SLOPE FOR CONCRETE FLOORS WHERE FLOOR DRAIN OCCURS.
- REFER TO SHEET A54.00 ACCESSIBILITY STANDARDS AND 64.10 ACCESSIBILITY DETAILS FOR ADDITIONAL INFORMATION AND TYPICAL ACCESSIBILITY DETAILS.
- REFER TO ROOM FINISH PLAN FOR ALL FINISH DESIGNATIONS.
- REFER TO STRUCTURAL DWS. FOR LOCATIONS AND EXTENT OF CONCRETE CURB AT INTERIOR WALLS.
- TOP PLATE HEIGHTS SHALL BE ABLE ACCOMMODATE NOMINAL 6YFP. BRD. SIZE BEING APPLIED TO WALLS.

KEYNOTES

- 5.6 STEEL PLATE WITH PAINTPRINT CUT OUT PER ARCHITECT. FINISH TO BE OCM K5 FINISH - COLOR TO BE SELECTED BY ARCHITECT.
- 5.8 METAL ACCESS LADDER - PRE-FINISHED. INSTALLED TO MEET ALL REQUIREMENTS SPECIFIED BY THE 2025 CMC 304.5.11 AND 304.5.2
- 5.9 CUSTOM CUT PERFORATED METAL ENCLOSURE WITH GRID WERE SECURITY PANELS - OCM K5 FINISH COLOR SELECTED BY ARCHITECT
- 6.27 STAINLESS STEEL COUNTERTOP AND FULL HT BACKSPLASH @ BACK AND SIDE - TOP @ 2'-10" A.F.F.
- 1.25 PREFINISHED GSM RAIN WATER LEADER CONNECT TO STORM DRAIN - COLOR TO MATCH S.S.M.R.
- 6.6 GUILLOTINE DOOR
- 6.12 WALL ACCESS PANEL FOR TRAP PRIMER
- 22.4 UNDERMOUNT S.S. TWO COMPARTMENT S.S. SINK
- 22.5 UNDERMOUNT SINK - S.P.D.
- 22.10 ADA COMPLIANT DRINKING FOUNTAIN/BOTTLE FILLING STATIONS - COMPLY WITH SECTION 11B-602.10 - S.P.D.
- 22.18 FLOOR DRAIN, SLOPE FLOOR TO DRAIN. S.P.D.





LEGEND

- DOOR
- STOREFRONT/CURTAIN WALL
- AREA PLAN MATCHLINE
- ABOVE
- DOOR REFERENCE NUMBER
- RATED DOOR REFERENCE NUMBER
- STOREFRONT REFERENCE NUMBER

WALL LEGEND

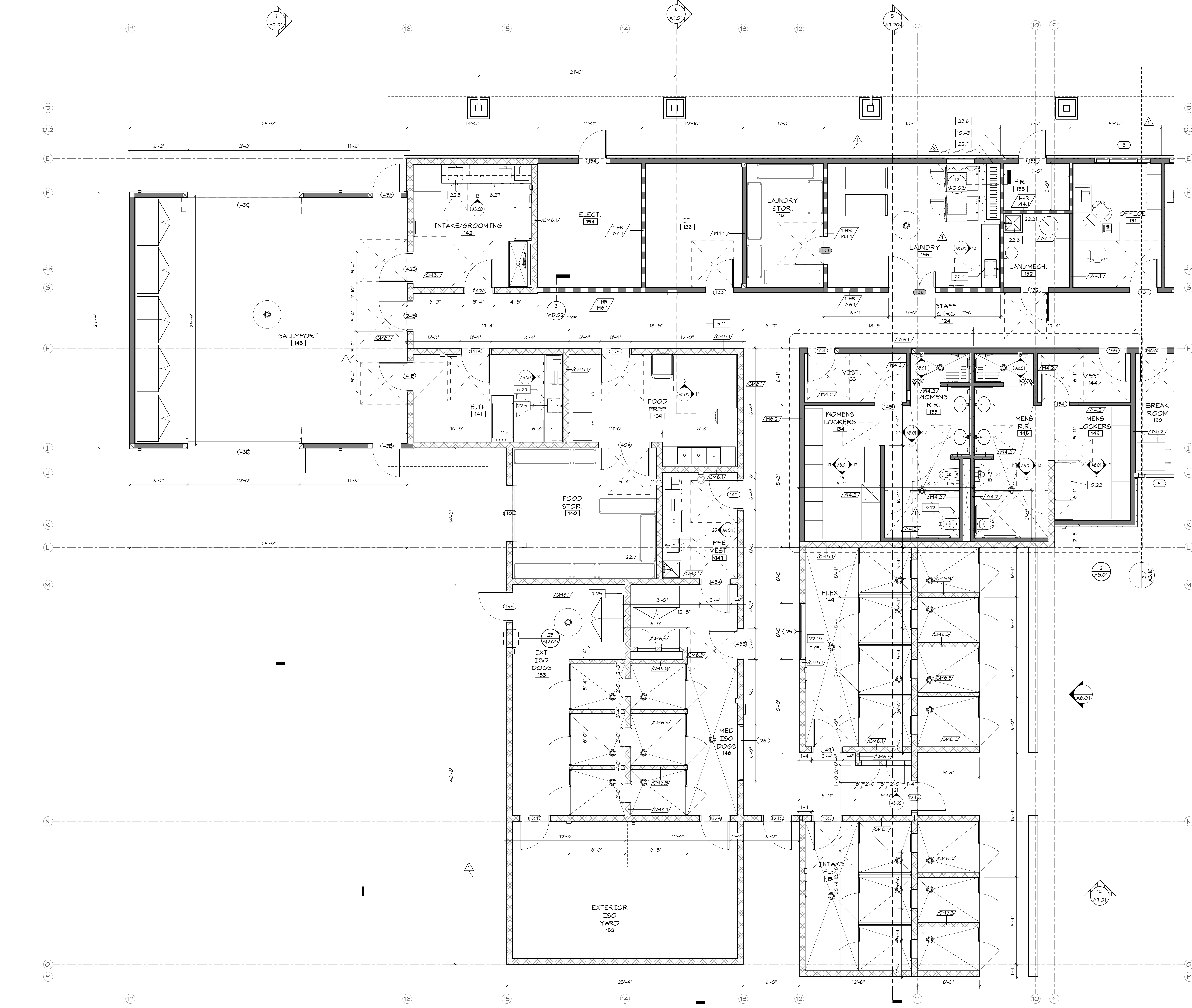
- 2x4 WOOD STUDS @ 16" O.C. W/ R-15 INSULATION, FULL HEIGHT SEE DETAIL
- 2x4 WOOD STUDS @ 16" O.C. W/ R-15 INSULATION, 6" ABOVE CEILING SEE DETAIL
- 2x6 WOOD STUDS @ 16" O.C. W/ R-19 INSULATION, FULL HEIGHT SEE DETAIL
- 2x6 WOOD STUDS @ 16" O.C. W/ R-19 INSULATION, 6" ABOVE CEILING SEE DETAIL
- CMU 8.1 - 8x8x16 CMU WALL FULL HEIGHT - SEE DETAIL
- CMU 8.1 - 8x8x16 CMU WALL PARTIAL HEIGHT - SEE DETAIL
- RCI 1 - 1-1/2" METAL STUDS @ 16" O.C. W/ R-15 INSULATION, FULL HEIGHT SEE DETAIL
- 1-HR M4.1 - 2x4 WOOD STUDS @ 16" O.C. W/ R-15 INSULATION, FULL HEIGHT, SEE DETAIL
- 1-HR M6.1 - 2x6 WOOD STUDS @ 16" O.C. W/ R-19 INSULATION, FULL HEIGHT, SEE DETAIL

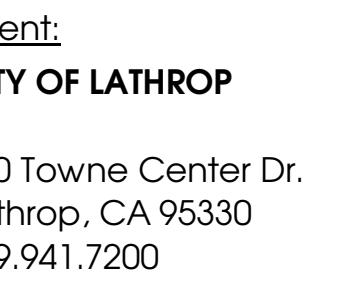
GENERAL NOTES

- UNLESS OTHERWISE NOTED OR INDICATED, ALL DIMENSIONS SHOWN ARE TO FACE OF FRAMING, CONC. SLAB AND/OR CMU.
- CONTRACTOR SHALL WORK TOWARD DIMENSIONS WITH TOLERANCES +/- SHOWN.
- PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING, TV SUPPORT BRACKETS, BULLETIN BOARDS, MARKER BOARDS AND BATHROOM FIXTURES.
- PROVIDE FIRE BLOCKING EVERY 10'-0" VERTICALLY & HORIZONTALLY AT CONCEALED SPACES, WALLS, PARTITIONS, CEILINGS AND INTERSECTIONS - TYP.
- ALL INTERIOR DOORS SHALL HAVE MIN. 18" WIDTH CLEARANCE ON THE SIDE TO WHICH THE DOOR SWINGS FROM THE STRIKE EDGE OF THE DOOR.
- ALL EXTERIOR DOORS SHALL HAVE MIN. 24" WIDTH LEVEL AREA ON THE SIDE TO WHICH THE DOOR SWINGS FROM THE STRIKE EDGE OF THE DOOR.
- EQUIPMENT IS PER OWNER UNLESS OTHERWISE NOTED. CONTRACTOR TO INSTALL ALL GAS, WATER, PLUMBING PER EQUIPMENT REQUIREMENTS. REFER TO OWNER FOR REQUIREMENTS.
- MINIMUM 1/8" TO 1/2" SLOPE FOR CONCRETE FLOORS WHERE FLOOR DRAIN OCCURS.
- REFER TO SHEET A34.00 ACCESSIBILITY STANDARDS AND 64.10 ACCESSIBILITY DETAILS FOR ADDITIONAL INFORMATION AND TYPICAL ACCESSIBLE DETAILS.
- REFER TO ROOM FINISH PLAN FOR ALL FINISH DESIGNATIONS.
- REFER TO STRUCTURAL DWGS. FOR LOCATIONS AND EXTENT OF CONCRETE CURB AT INTERIOR WALLS.
- TOP PLATE HEIGHTS SHALL BE ABLE ACCOMMODATE NOMINAL GYP. BRD. SIZE BEING APPLIED TO WALLS.

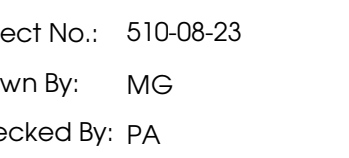
KEYNOTES

- 5.11 S.S. COUNTERTOP WITH MARINE EDGE - MOUNT SURFACE AT 2'-10" ABOVE FINISH FLOOR
- 6.21 STAINLESS STEEL COUNTERTOP AND FULL HT BACKSPLASH @ BACK AND SIDE - TOP @ 2'-10" A.F.F.
- 7.25 PREFINISHED 65M RAIN WATER LEADER CONNECT TO STORM DRAIN - COLOR TO MATCH S.S.M.R.
- 8.12 WALL ACCESS PANEL FOR TRAP
- 10.22 ADA COMPLIANT BENCH SEAT 20" WIDE X 48" LENGTH X 18" HIGH A.F.F.
- 10.43 KNOX BOX KEYS FOR LOCAL FIRE PROTECTION DISTRICT, MOUNTED 5'-6" A.F.F. MIN.
- 22.4 UNDERMOUNT S.S. TWO COMPARTMENT S.S. SINK
- 22.5 UNDERMOUNT SINK - S.P.D.
- 22.6 FLOOR MOUNT UTILITY SINK - S.P.D.
- 22.9 TRENCH DRAIN, S.P.D.
- 22.10 FLOOR DRAIN, SLOPE FLOOR TO DRAIN, S.P.D.
- 22.21 WATER HEATER - S.P.D.
- 22.6 WALL LOUVER AIR INTAKE - SMD





ject:
THROP ANIMAL CENTER
005 STANFORD CROSSING
THROP, CA. 95330



Description	Date	By
PC #2	5/19/2026	
ADDENDA #2	7/10/2026	PA

DEMANDA #2
10/2026

REFLECTED CEILING PLAN

A4.00

	24" x 24" REGULAR ACOUSTICAL CEILING PANEL - SEE DETAIL 1 AD.06
	5/8" TYPE "X" GYPSUM BOARD, TEXTURE, PRIME & PAINT
	METAL SOFFIT PANEL ARMSTRONG METALWORKS LINEAR - COLOR SELECTED BY ARCHITECT 1
	ARMSTRONG METALWORKS LINEAR DIVERGE - PERFORATED WITH ACOUSTICAL BACKING - VARYING WIDTHS AND COLORS
	SUPPLY AIR REGISTER - S.M.D.
	RETURN AIR REGISTER - S.M.D.
	EXHAUST AIR REGISTER - S.M.D.
	LAY-IN LIGHT FIXTURE - S.E.D.
	SURFACED MOUNTED LIGHT - S.E.D.
	RECESSED DOWN LIGHT - S.E.D.

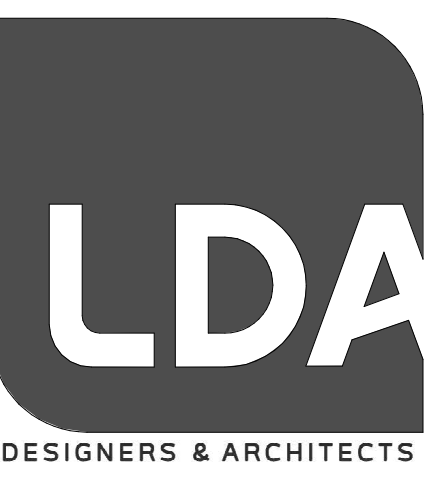
1. FOR LIGHT FIXTURES & MECHANICAL EQUIPMENT NOT REFERENCED REFER TO ELECTRICAL & MECHANICAL DRAWINGS.
2. CANTER CEILING FIXTURES & MECHANICAL FIXTURES WITHIN THE CEILING TILE PATTERNS - TYP.
3. FIRE BLOCK EVERY 10'-0" VERTICALLY & HORIZONTALLY AT CONCEALED SPACES, WALLS, PARTITIONS, CEILINGS & INTERCONNECTIONS - TYP.
4. SUSPENDED CEILINGS IN SEISMIC DESIGN CATEGORIES 2, 3 & 4 COMPLY WITH ASCE 7-16 SEC. 13.5.6.2.2 AS FOLLOWS:
 - a. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE OR CHANNEL SHALL BE NOT LESS THAN 2-0". UNLESS QUALIFIED OTHERWISE, PERIMETER SUPPORTS ARE USED.
 - b. CLOSURE ANGLES OR CHANNELS SHALL BE SECURED OR OTHERWISE POSITIVELY ATTACHED TO WALL STUDS OR OTHER SUPPORTING STRUCTURES. PERIMETER SUPPORTING CLIPS SHALL BE QUALIFIED IN ACCORDANCE WITH APPROVED TEST CRITERIA PER SECTION 13.5.2.
 - c. PERIMETER SUPPORTING CLIPS SHALL BE ATTACHED TO SUPPORTING CLOSURE ANGLE OR CHANNEL WITH AN OVERLAP OF TWO SCREWS PER CLIP AND SHALL BE INSTALLED AROUND THE ENTIRE CEILING PERIMETER.
 - d. EACH HORIZONTAL WALL OR CEILING DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE, CHANNEL, OR PERIMETER SUPPORTING CLIP. THE OTHER END OF THE CEILING GRID IN EACH HORIZONTAL DIRECTION SHALL HAVE A MIN. 0'-6" IN CLEARANCE FROM THE WALL AND SHALL BE SECURED TO THE WALL WITH AN CLOSURE ANGLE, CHANNEL, OR PERIMETER SUPPORTING CLIP.
 - e. CEILING AREAS OVER 2000 SQFT MUST HAVE SEISMICALLY RATED JOINTS OR FULL HEIGHT PARTITIONS.
 - f. CEILING WITHOUT RIGID BRACING MUST HAVE 2" DIA. RATED BRACING STUDS FOR SPRINKLERS AND OTHER CEILING PENETRATIONS.

- 5.1 HSS COLUMN - PRIME & PAINT - S.S.D.
- 5.2 HSS BEAM - PRIME & PAINT - S.S.D.
- 5.3 HSS RIDGE BEAM - PRIME & PAINT - S.S.D.
- 5.4 STEEL PLATE WITH PAINTWORK CUT OUT FOR ARCHITECT. FINISH TO BE OCM K5 FINISH. COLOR TO BE SELECTED BY ARCHITECT.
- 5.5 METAL ACCESS LADDER - FINE-FINISHED, INSTALLED TO MEET ALL REQUIREMENTS SPECIFIED BY THE 2025 CMC 304.3.1.1 AND 304.3.2
- 5.10 PRE-FRAMED ALUMINUM SUN SHADE CANOPY W/ INTEGRAL GUTTER & TIE RODS
- 5.15 6M BEVELED GUTTER - PRIME & PAINT V.O.N.
- 7.25 CONNECT 65M RADN WATER LEADER FROM TOSS DRAIN - COLOR TO MATCH S.S.M.R.
- 8.11 CEILING ACCESS PANEL
- 10.10 WALL MOUNTED HANGING SIGNAGE
- 10.20 CEILING MOUNTED HANGING SIGNAGE

FIRST FLOOR REFLECTED CEILING PLAN

KEYNOTES

- 3.1 CONCRETE SLAB - S.S.D.
4.1 6X6X16 CMU
5.6 STEEL PLATE WITH PAINTPRINT CUT OUT PER ARCHITECT. FINISH TO BE OCM K5 FINISH - COLOR TO BE SELECTED BY ARCHITECT.
6.15 MD. ROOF FRAMING - S.S.D.
6.16 2X6 CEILING JOISTS
6.18 2X STUDS @ 16" O.C.
7.10 SINGLE-PLY ROOFING MEMBRANE
7.20 STANDING SEAM METAL ROOF - COLOR AS SELECTED BY ARCHITECT.
12.3 R-30 KRAFT Faced BATT INSULATION
9.1 5/8" GYPSUM BOARD CEILING - REFER TO FINISH SCHEDULE
9.8 2X2 ACOUSTICAL PANEL SUSPENDED CEILING SYSTEM - REFER TO FINISH SCHEDULE
9.16 1/2" GYPSUM REVEAL
26.5 2' X 2' LAY-IN LIGHT FIXTURE - S.E.D.



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Project:

LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23

Drawn By: MG

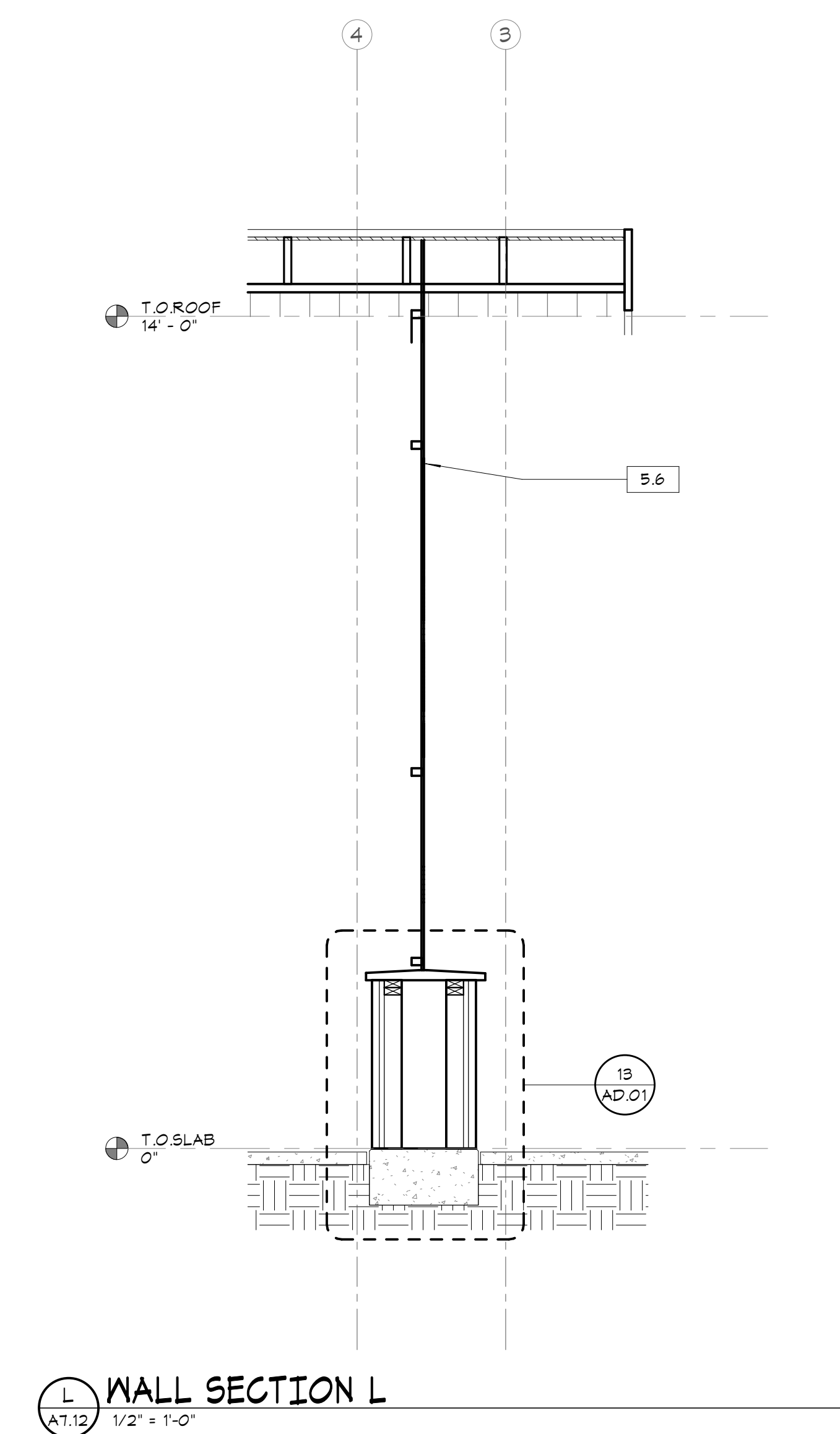
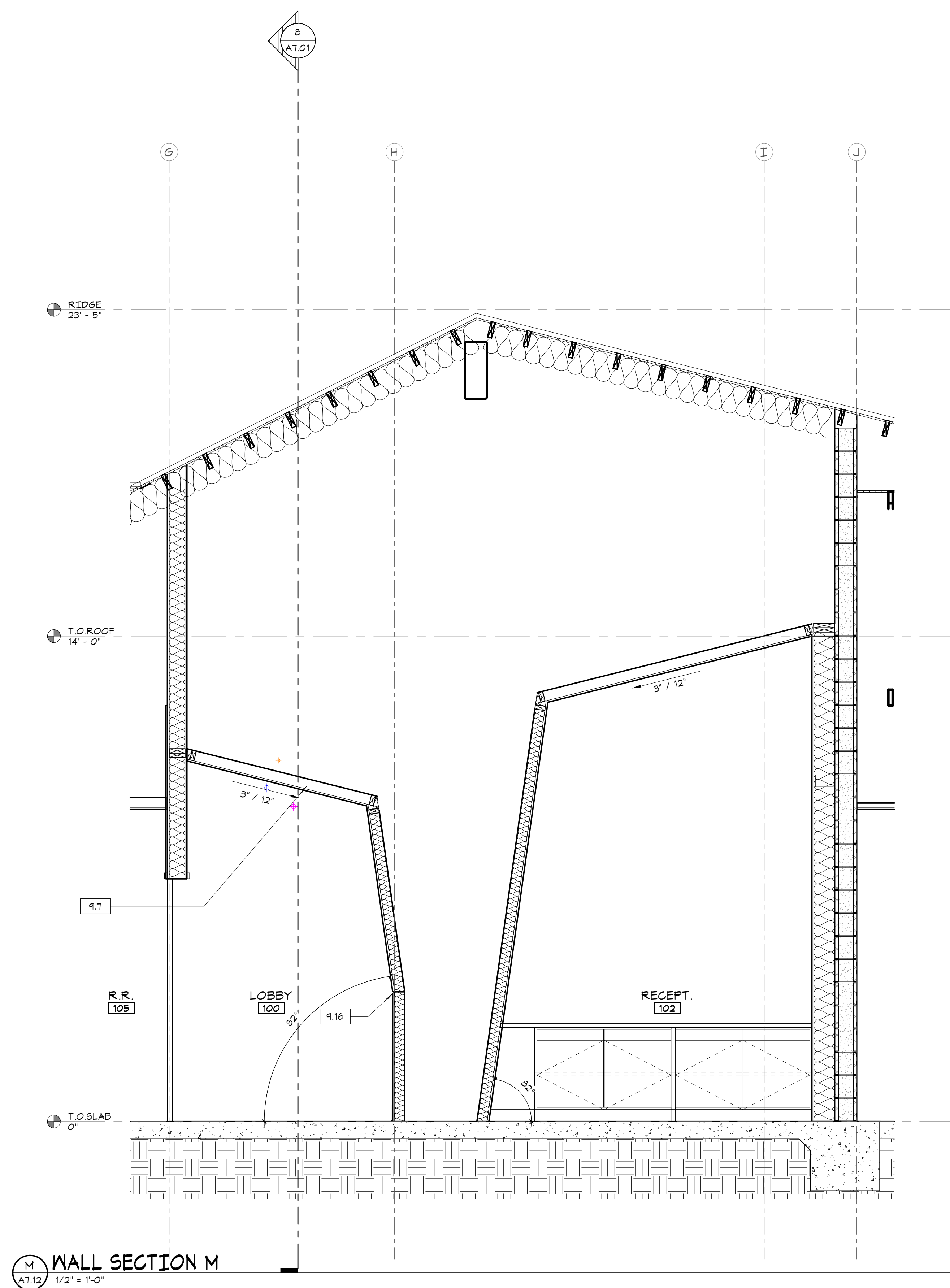
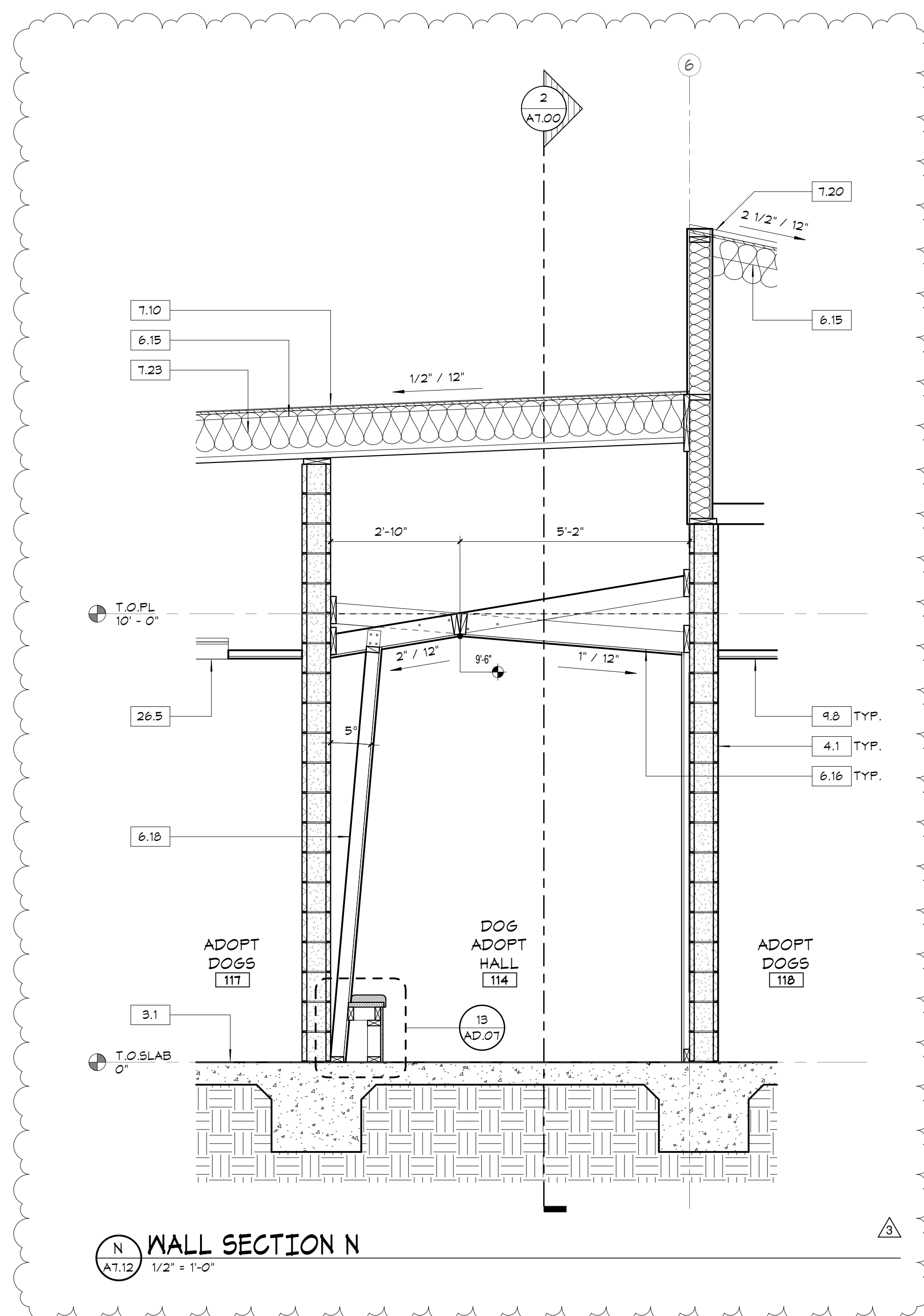
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No.	Description	Date	By
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3	ADDENDA #2	7/10/2026	PA

ADDENDA #2
7/10/2026

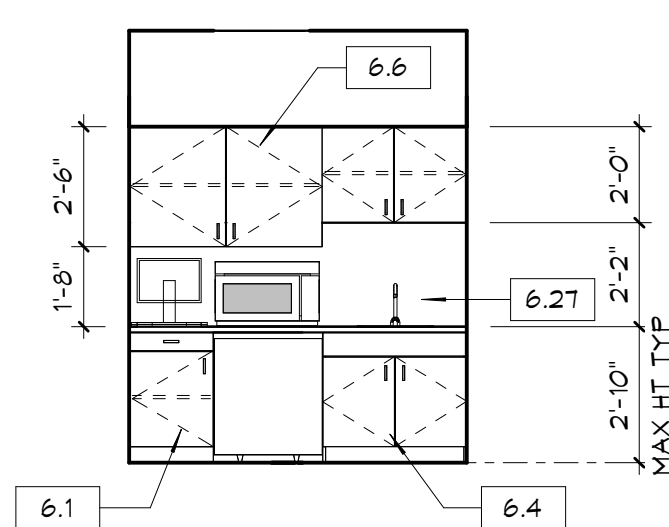
WALL SECTIONS

A7.12

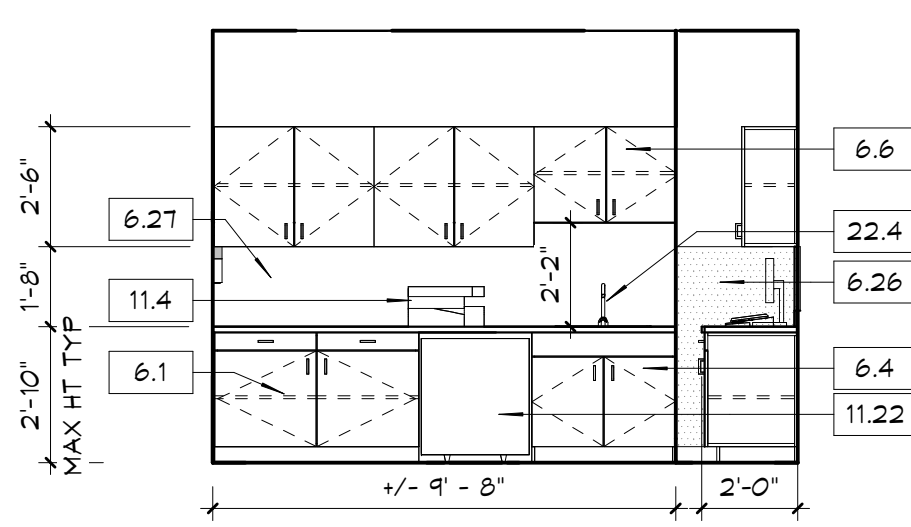


KEYNOTES

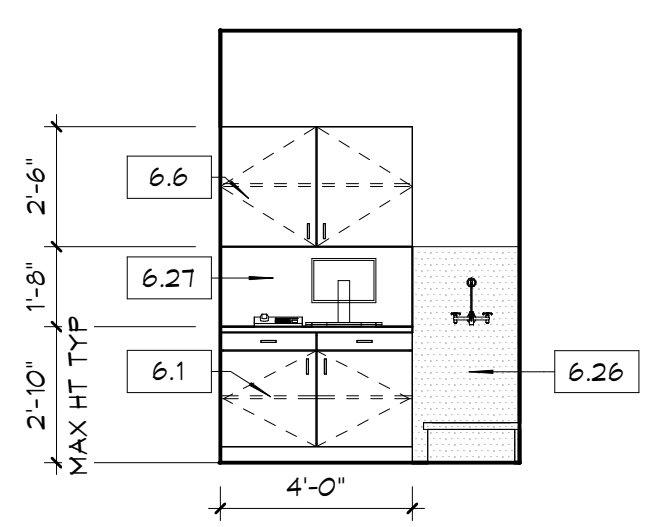
- 5.6 STEEL PLATE WITH PAWPRINT CUT OUT PER ARCHITECT. FINISH TO BE OCM K5 FINISH - COLOR TO BE SELECTED BY ARCHITECT.
- 5.15 DECORATIVE HSS S.S.D.
- 5.16 SHEET METAL COLLAR TAG CLIPPED TO LIGHT WITH CLIPPING SYSTEM. COLOR / SHAPE SELECTED BY ARCHITECT
- 6.1 P. LAM FACED BASE CABINET WITH DOORS AND ADJ. SHELVES
- 6.2 P. LAM FACED BASE CABINET WITH DRAWERS
- 6.4 P. LAM FACED SINK CABINET WITH DOORS
- 6.6 P. LAM FACED UPPER CABINET WITH DOORS AND ADJ. SHELVES
- 6.7 SOLID SURFACE COUNTERTOP WITH APRON AND 4" BACKSLASH @ BACK AND SIDES - TOP @ 2'-10" A.F.F.
- 6.8 SOLID SURFACE COUNTERTOP TOP @ 2'-10" A.F.F.
- 6.10 SOLID SURFACE COUNTERTOP. SEE ELEVATION FOR HST.
- 6.26 FRP MAINSCOT
- 6.27 STAINLESS STEEL COUNTERTOP AND FULL HT BACKSLASH @ BACK AND SIDE - TOP @ 2'-10" A.F.F.
- 6.28 STAINLESS STEEL COUNTERTOP WITH 4" BACKSLASH - TOP @ 2'-10" A.F.F.
- 6.29 WALL MOUNTED STAINLESS STEEL SHELVING
- 6.12 WALL ACCESS PANEL FOR TRAP PRIMER
- 9.16 1/2" GYPSUM REVEAL
- 10.10 SOAP DISPENSER, WALL MOUNTED, MOUNT CENTER OF CONTROLS @ 40" HT. A.F.F.
- 11.4 COPIER - PRINTER-SCANNER - N.I.C.
- 11.9 COUNTERTOP WITH VENTILATION HOOD, S.M.P.
- 11.22 UNDERCOUNTER REFRIDGERATOR
- 11.23 FULL HEIGHT CASEWORK WITH LOCKS
- 22.1 FLUSH VALVE METAL ACCESS PANEL
- 22.4 UNDERMOUNT S.S. TWO COMPARTMENT S.S. SINK
- 22.5 UNDERMOUNT SINK - S.P.D.
- 22.22 HANDWASH SINK - S.P.D.
- 22.25 WALL MOUNTED HOSE REEL - S.P.D.
- 26.1 PENDANT LIGHT, S.E.D.



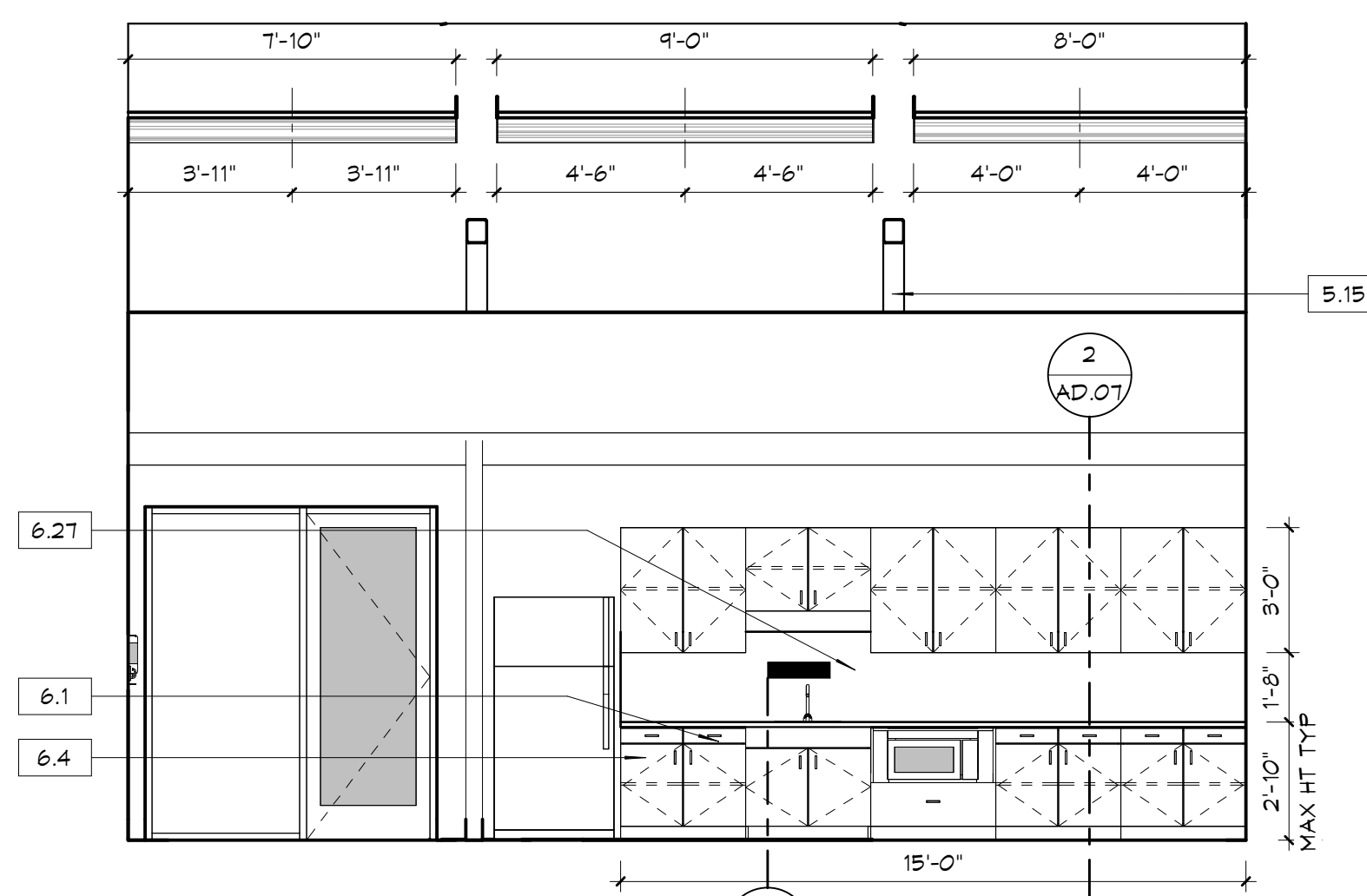
5 PPE 112
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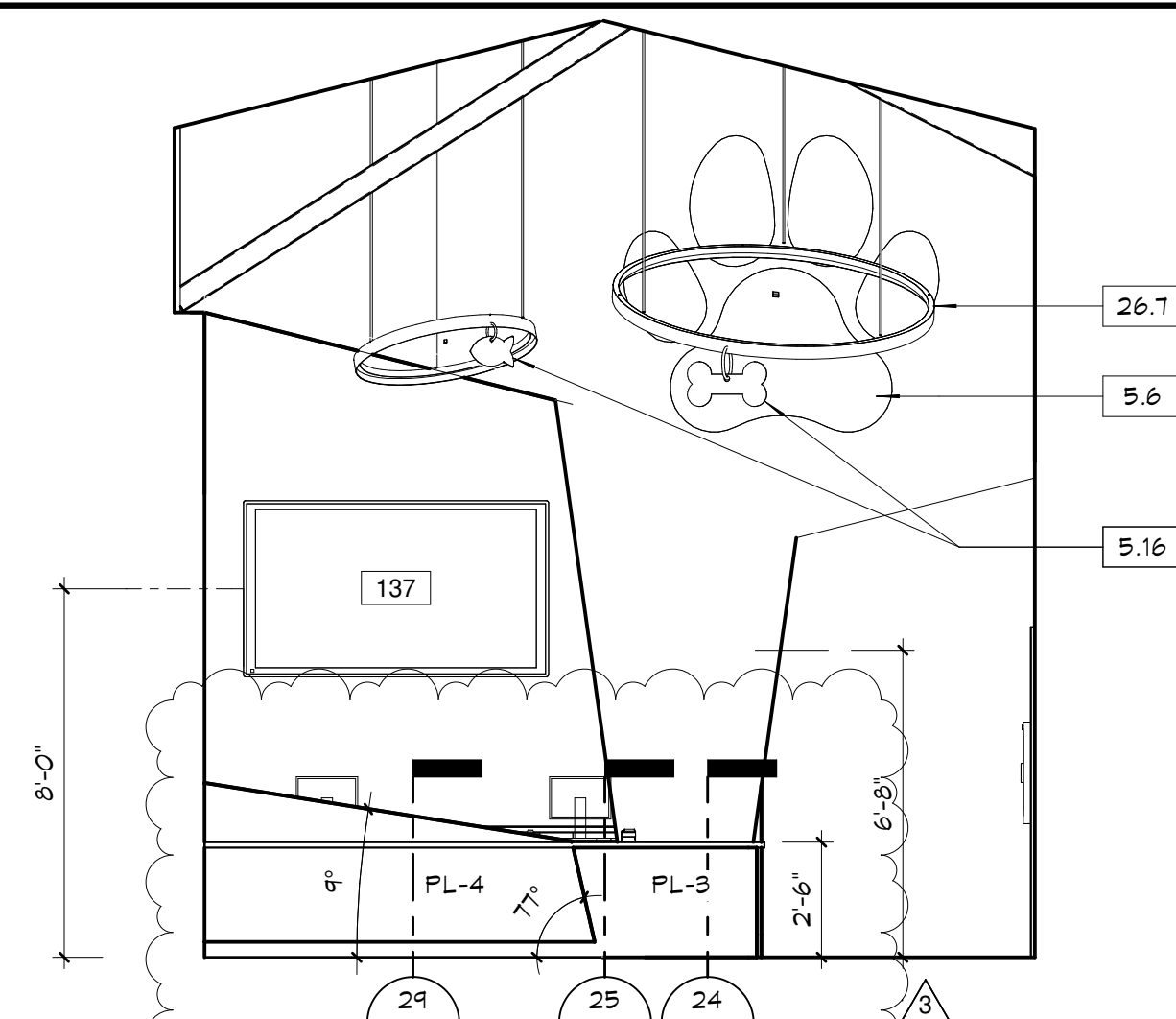
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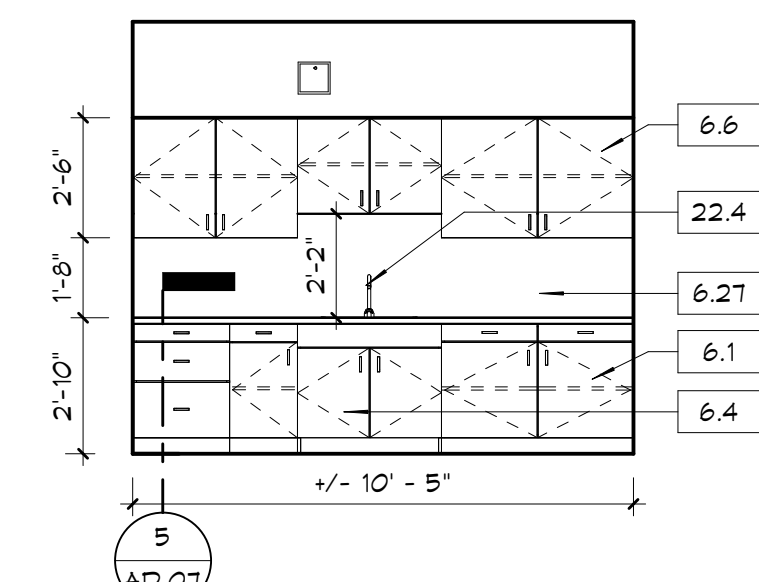
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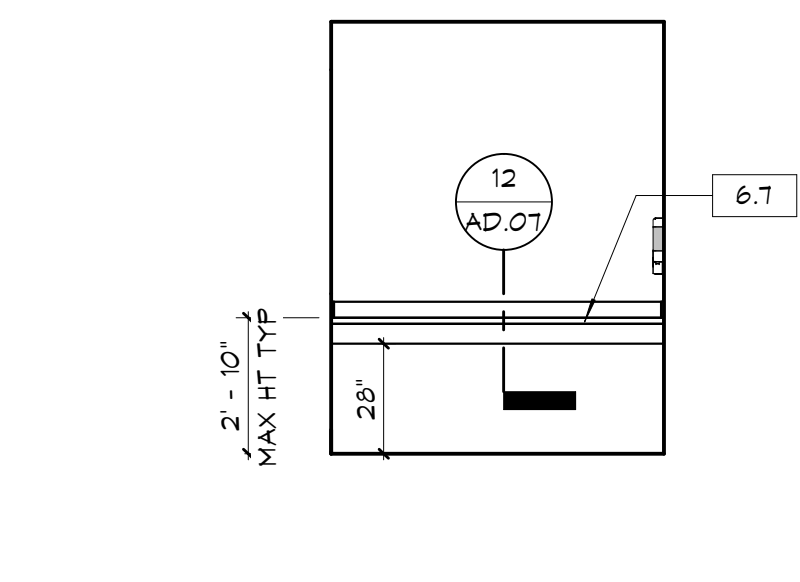
2 COMMUNITY ROOM 103
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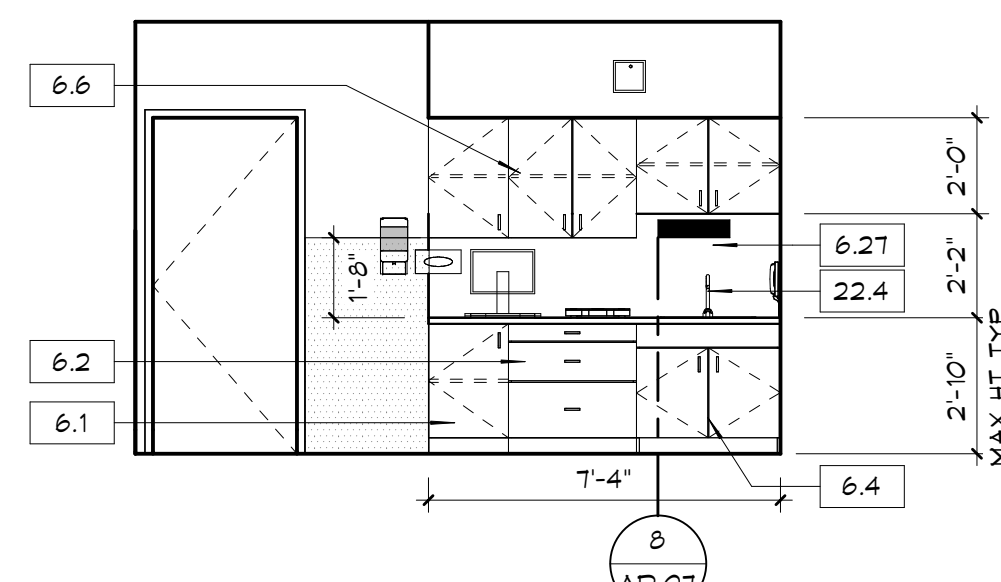
1 LOBBY 100 N.
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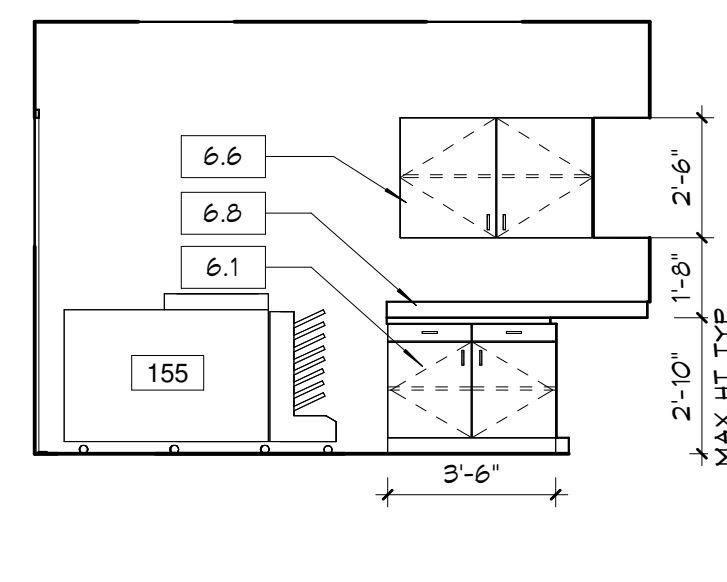
10 ADOPT CATS 112
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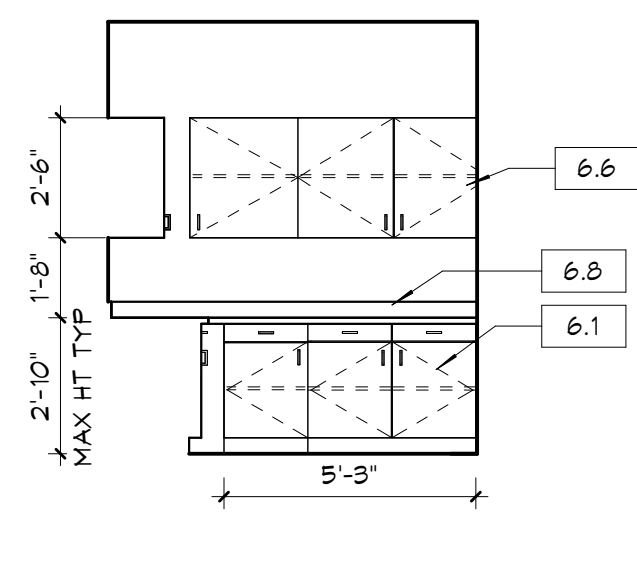
9 SM. MAMMELS 106
A8.00 1/4" = 1'-0"



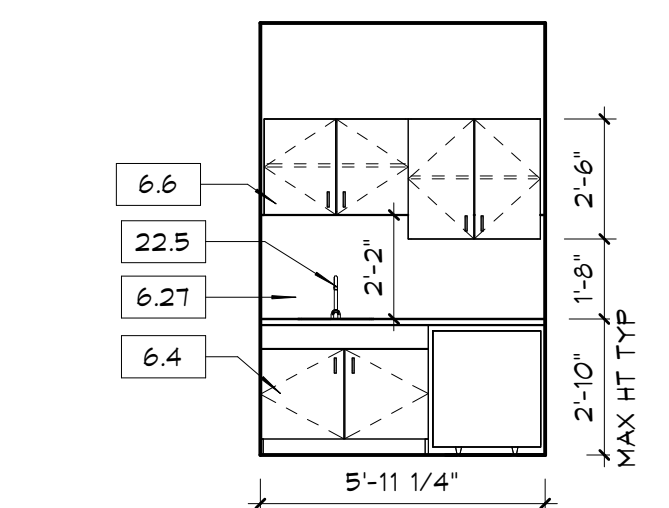
8 INTAKE CATS 109
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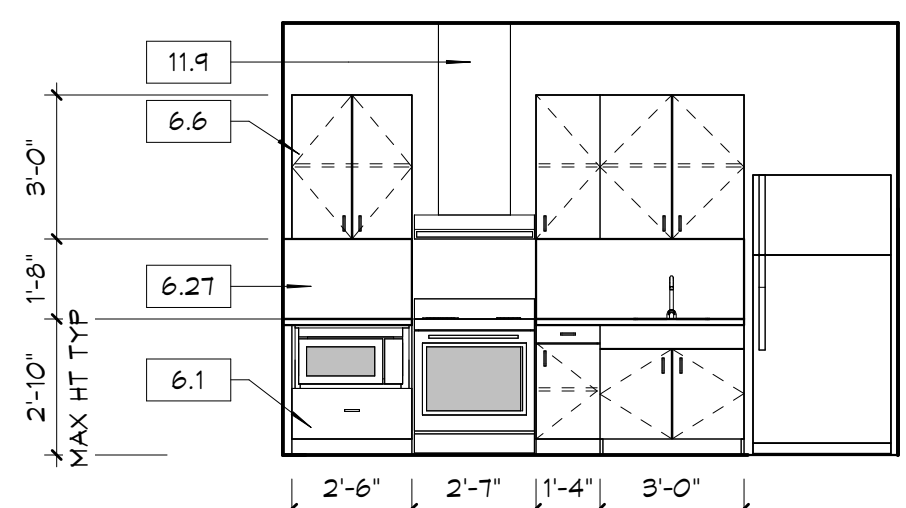
7 FILE/COPY 111
A8.00 1/4" = 1'-0"



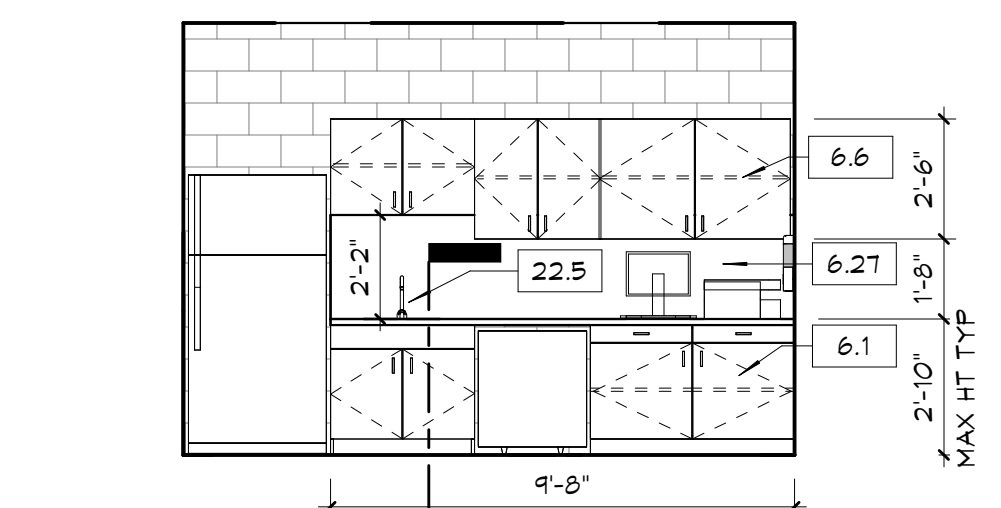
6 FILE/CPY 111
A8.00 1/4" = 1'-0"



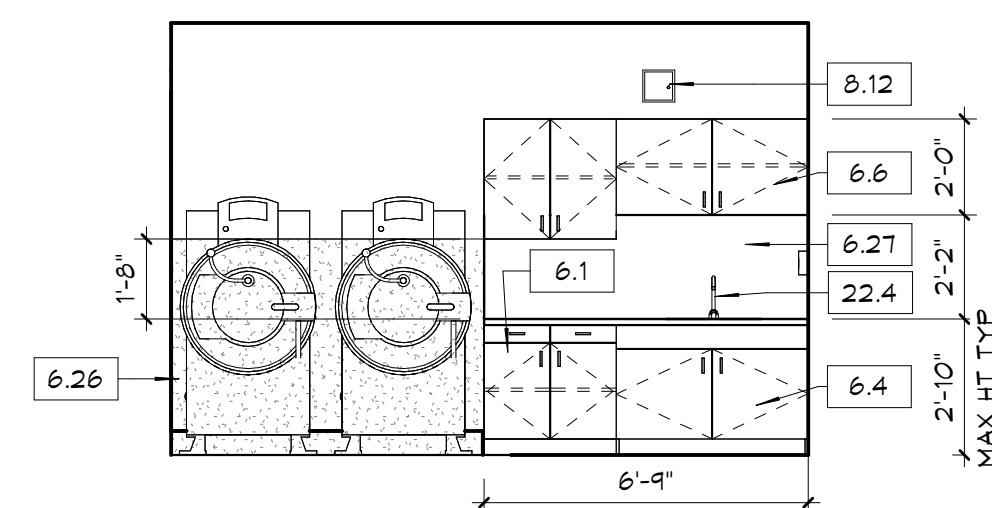
15 WELLNESS 129
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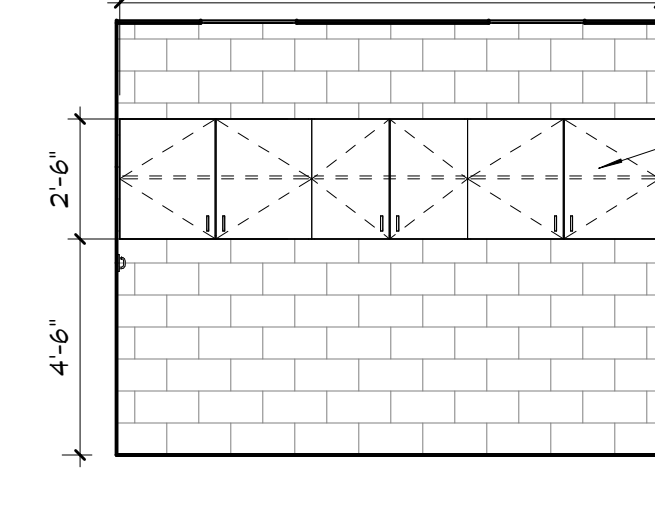
14 BREAKROOM 125
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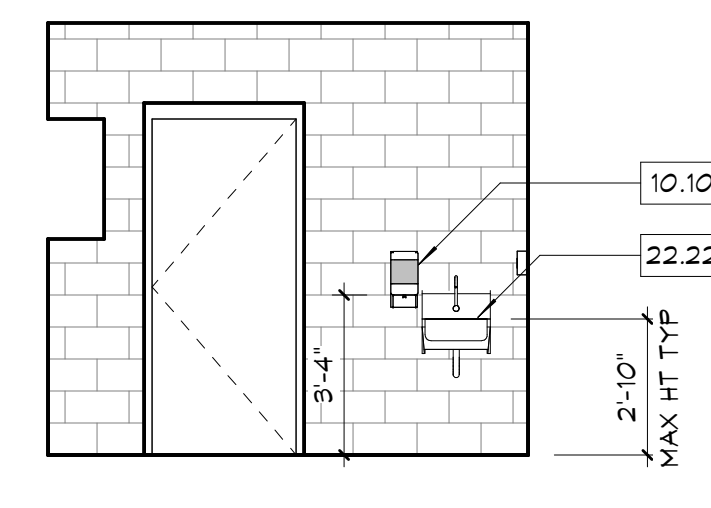
13 INTAKE/GROOMING 142
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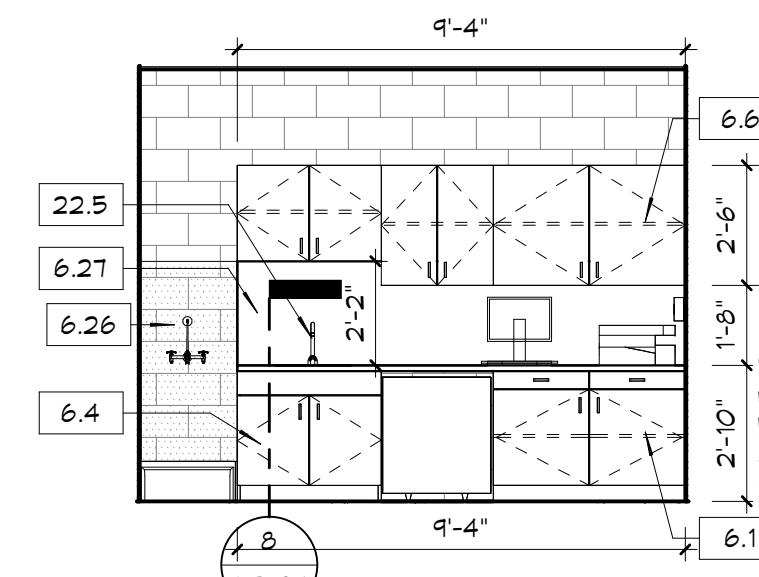
12 LAUNDRY 136
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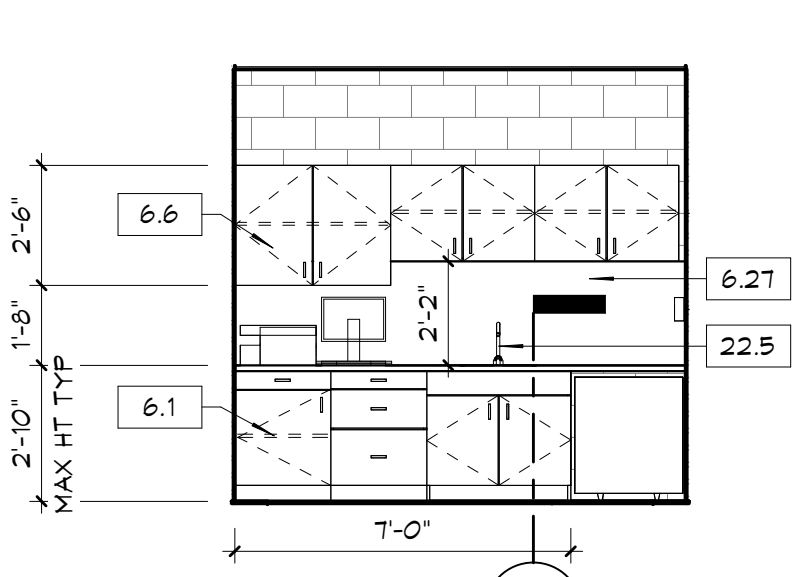
11 MEET & GREET 121 N.
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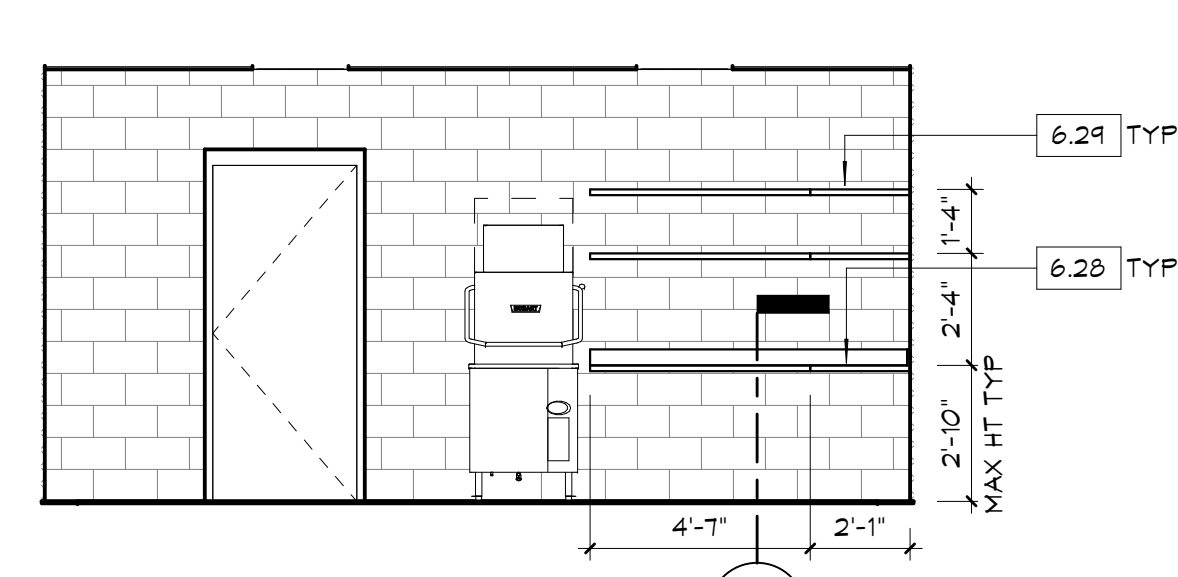
22 MEET & GREET 121 E.
A8.00 1/4" = 1'-0"



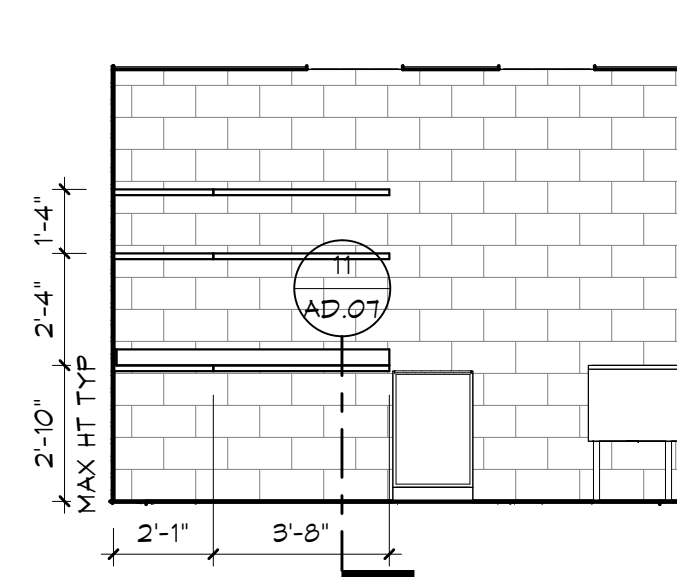
20 PPE VEST. 147
A8.00 1/4" = 1'-0"



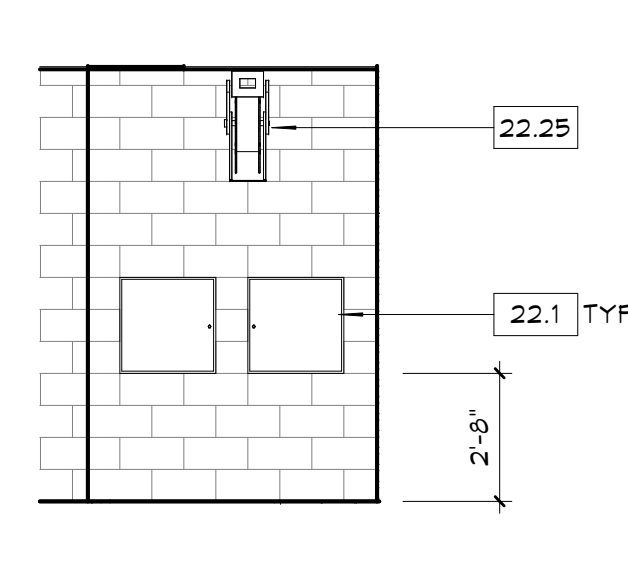
19 EUTH 135
A8.00 1/4" = 1'-0"



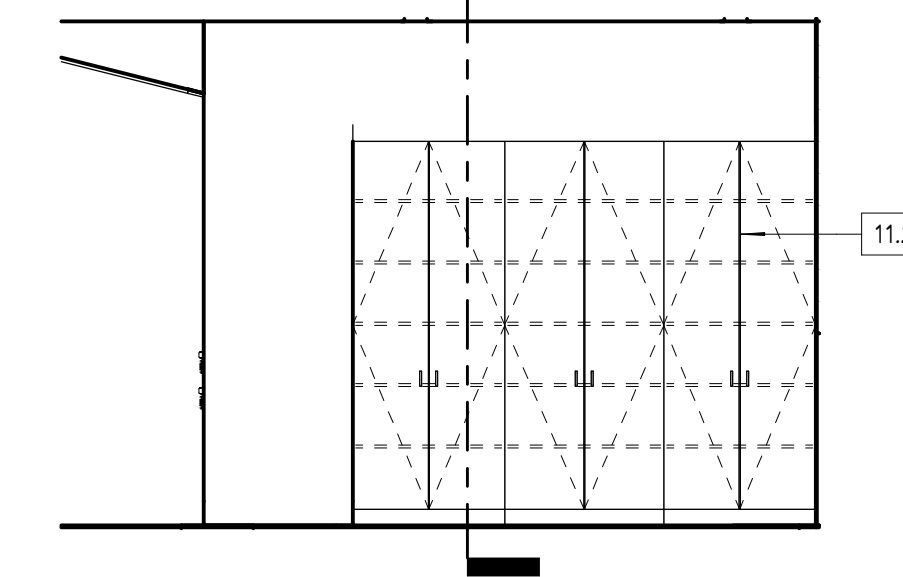
18 FOOD PREP 139 N.
A8.00 1/4" = 1'-0"



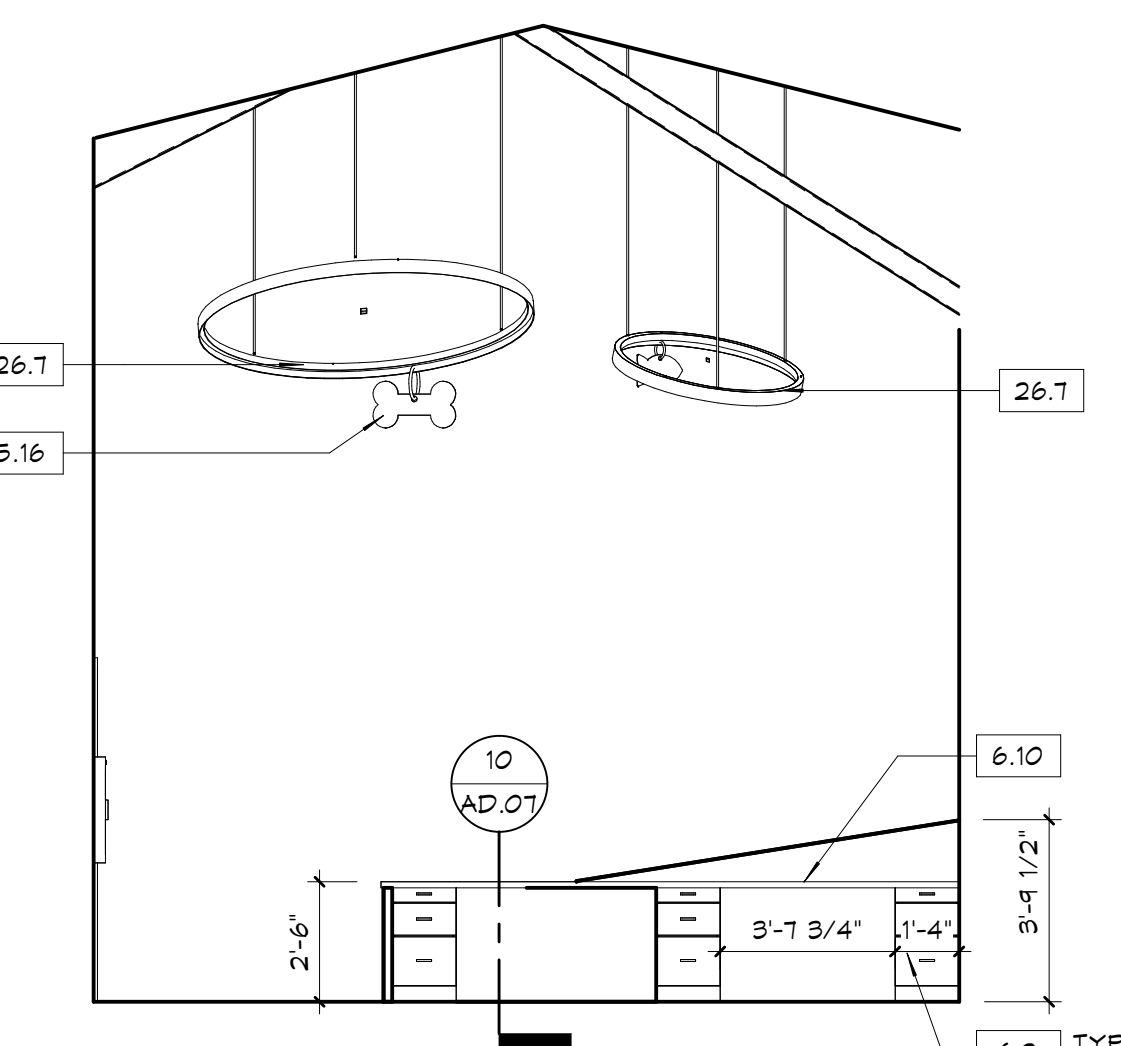
17 FOOD PREP 139 E.
A8.00 1/4" = 1'-0"



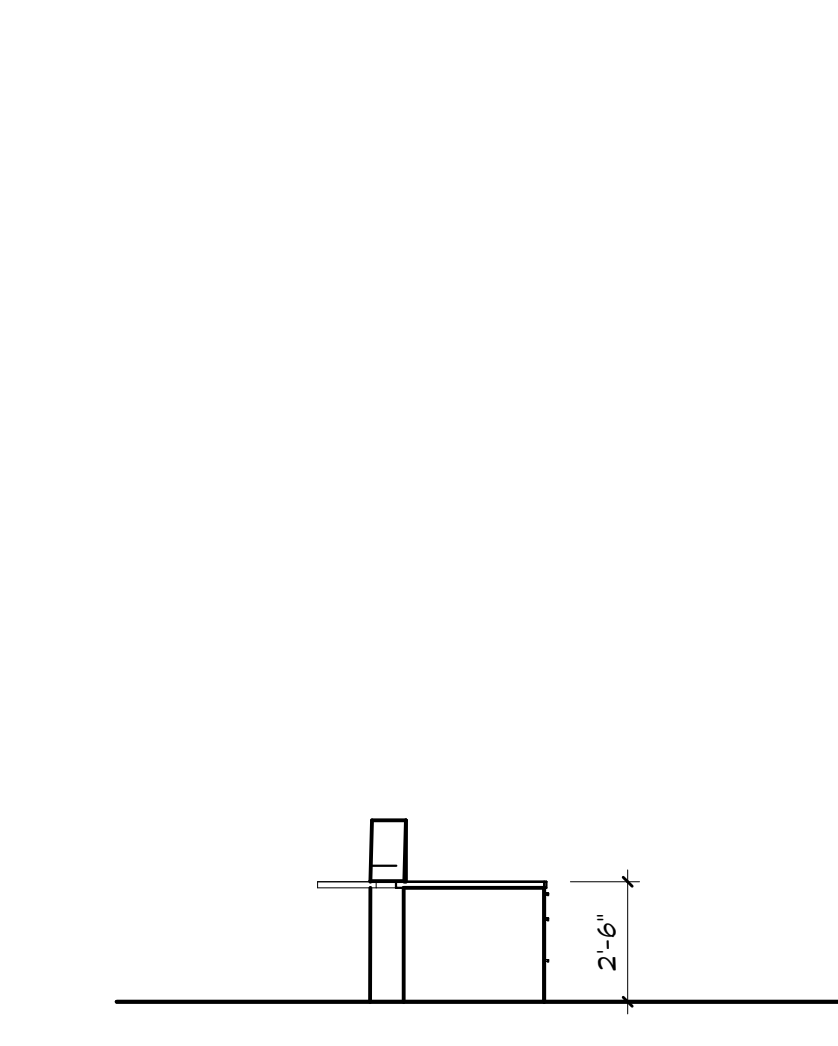
21 FLUSH VALVE ACCESS PANEL
A8.00 1/4" = 1'-0"



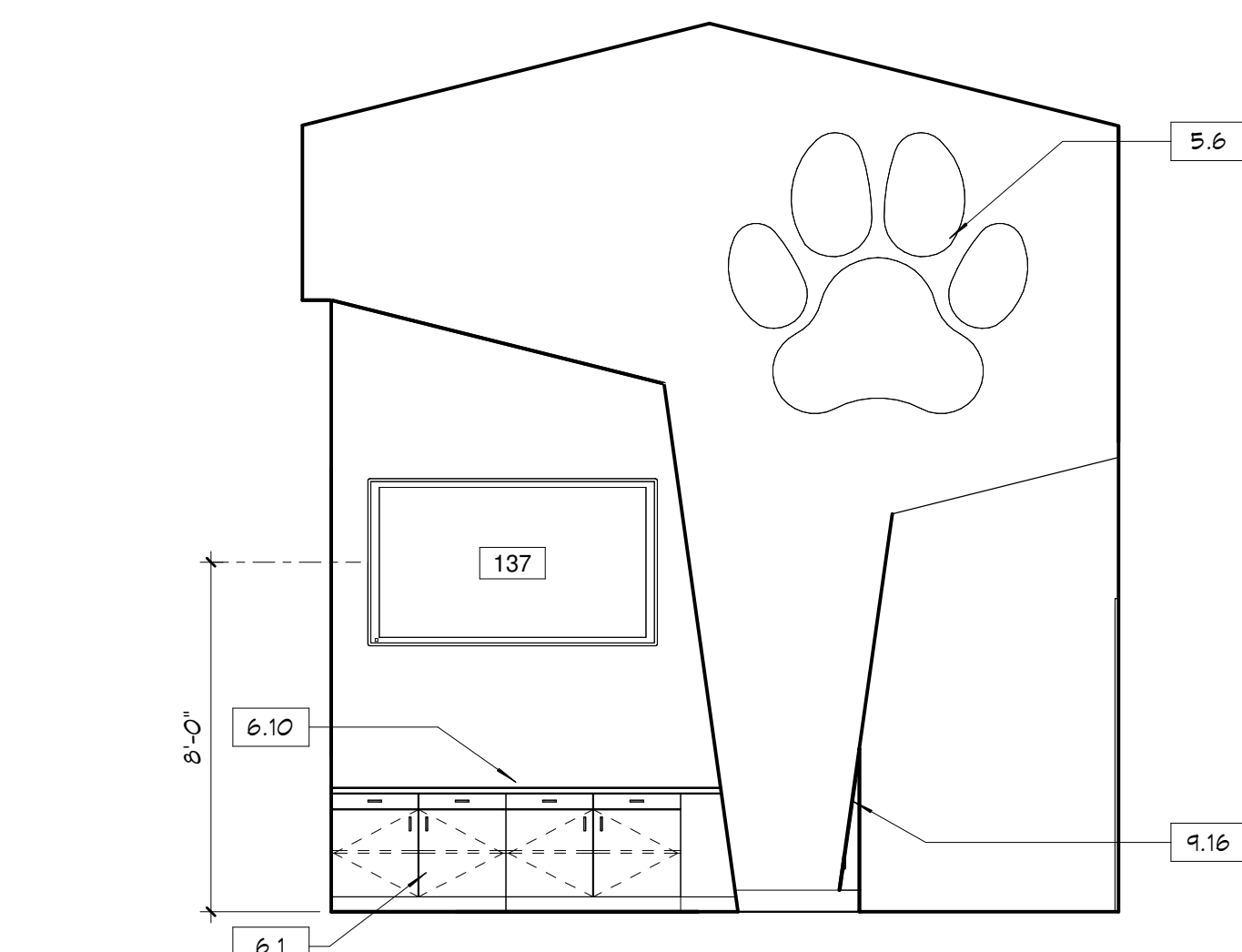
16 ADOPTION HALLWAY - SOUTH
A8.00 1/4" = 1'-0"



23 RECPT. 102 W.
A8.00 1/4" = 1'-0"



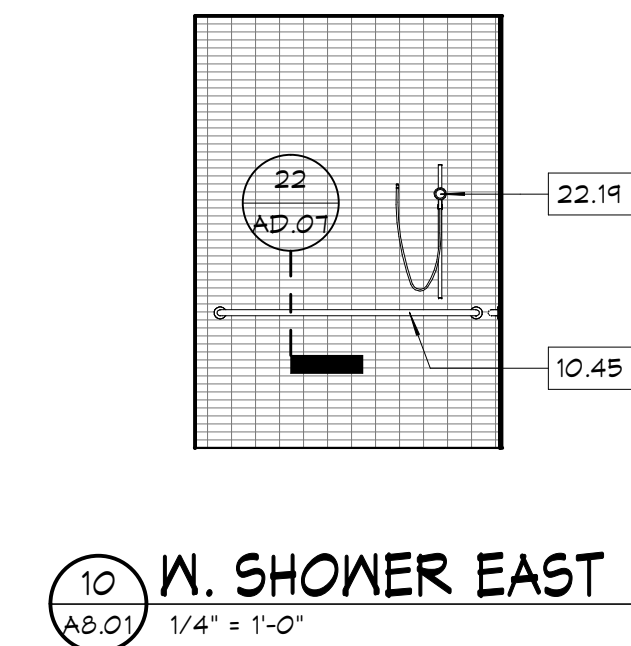
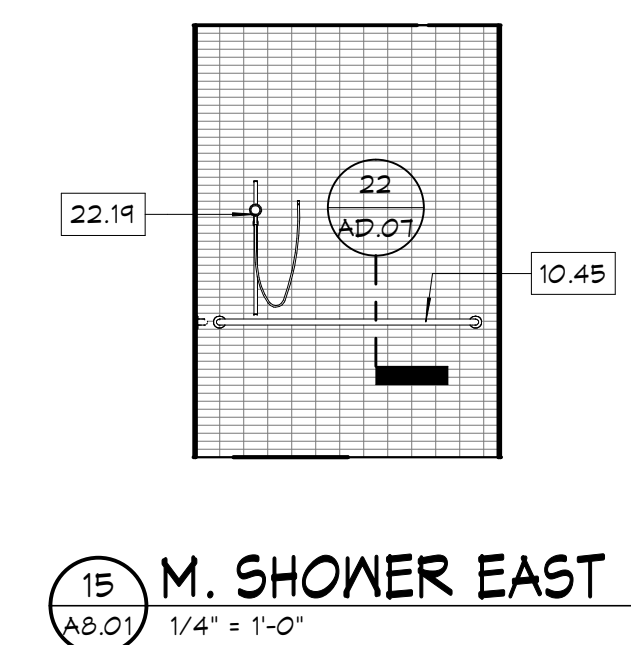
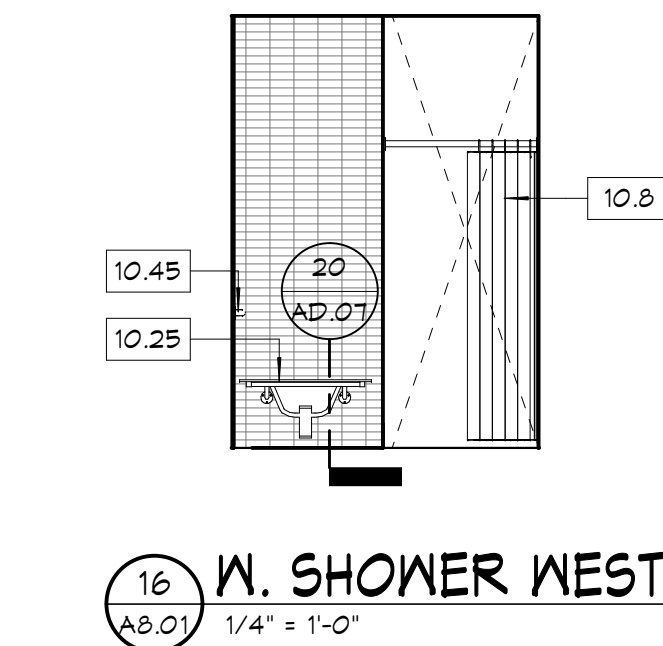
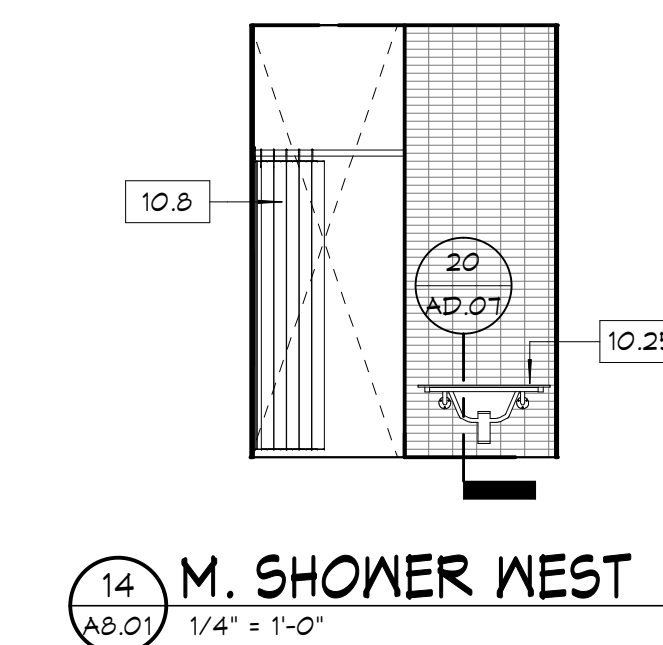
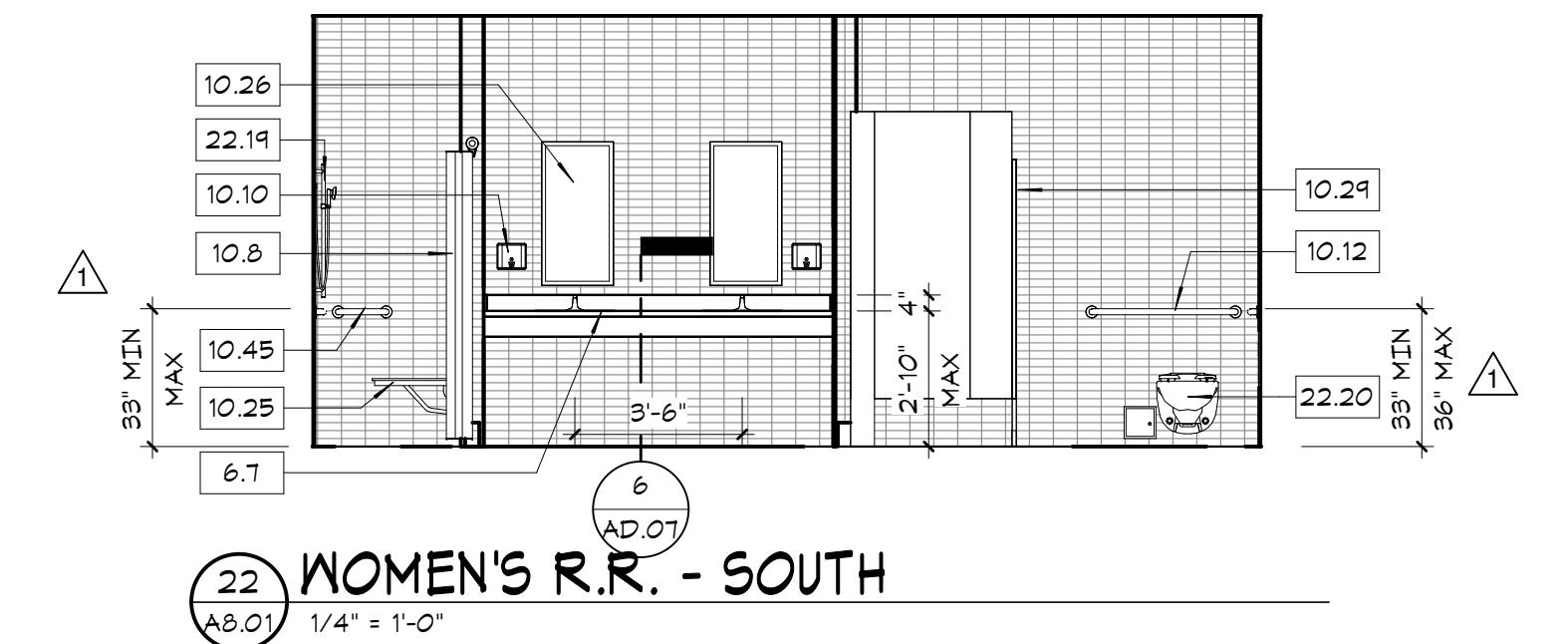
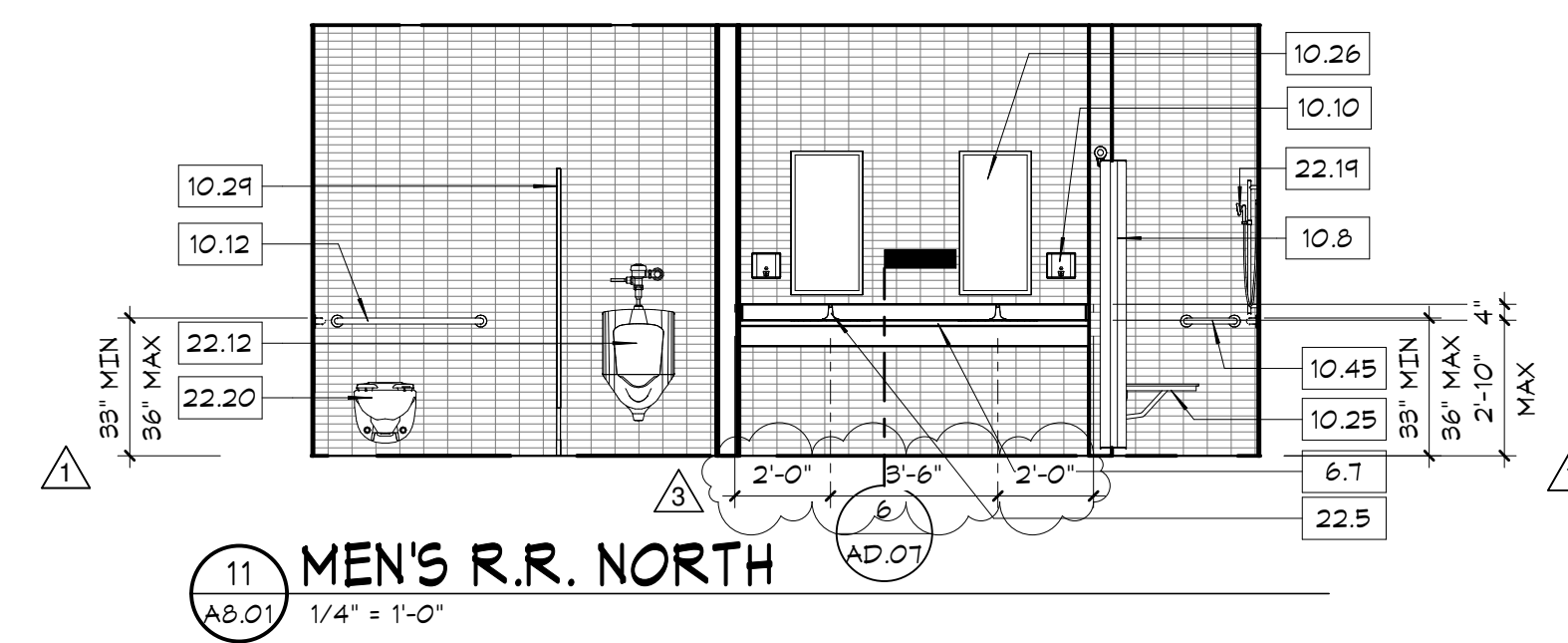
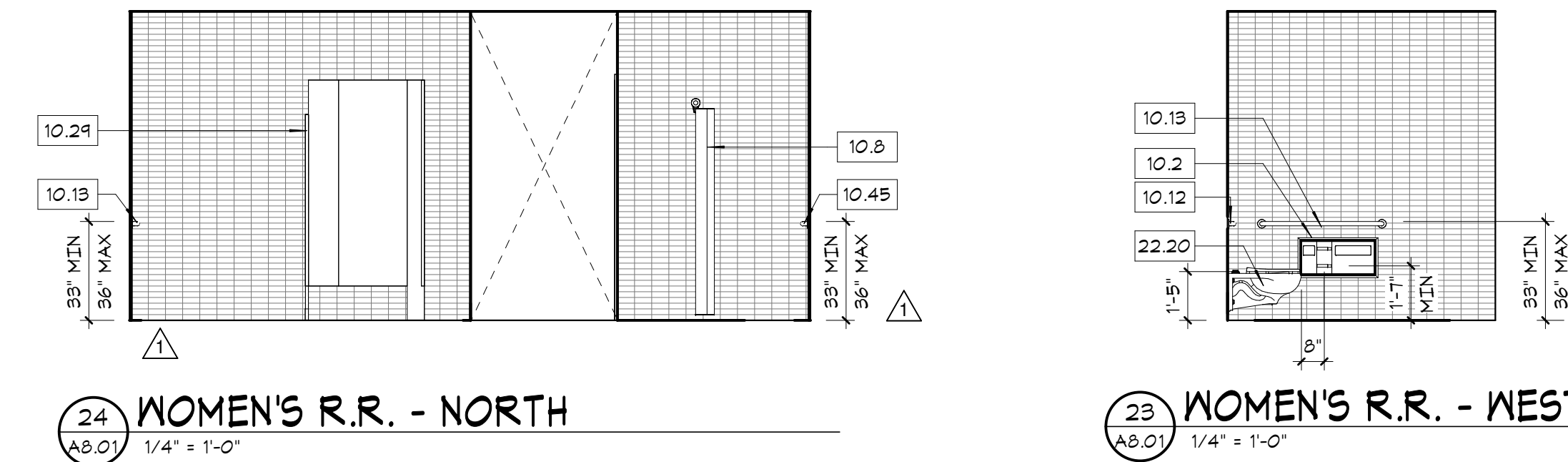
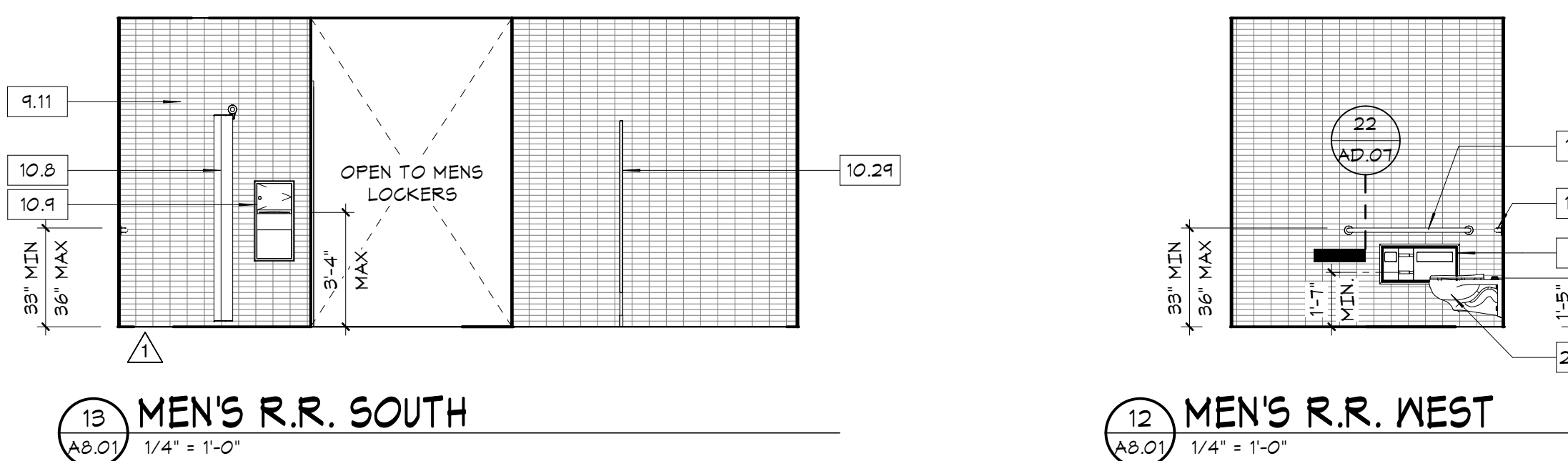
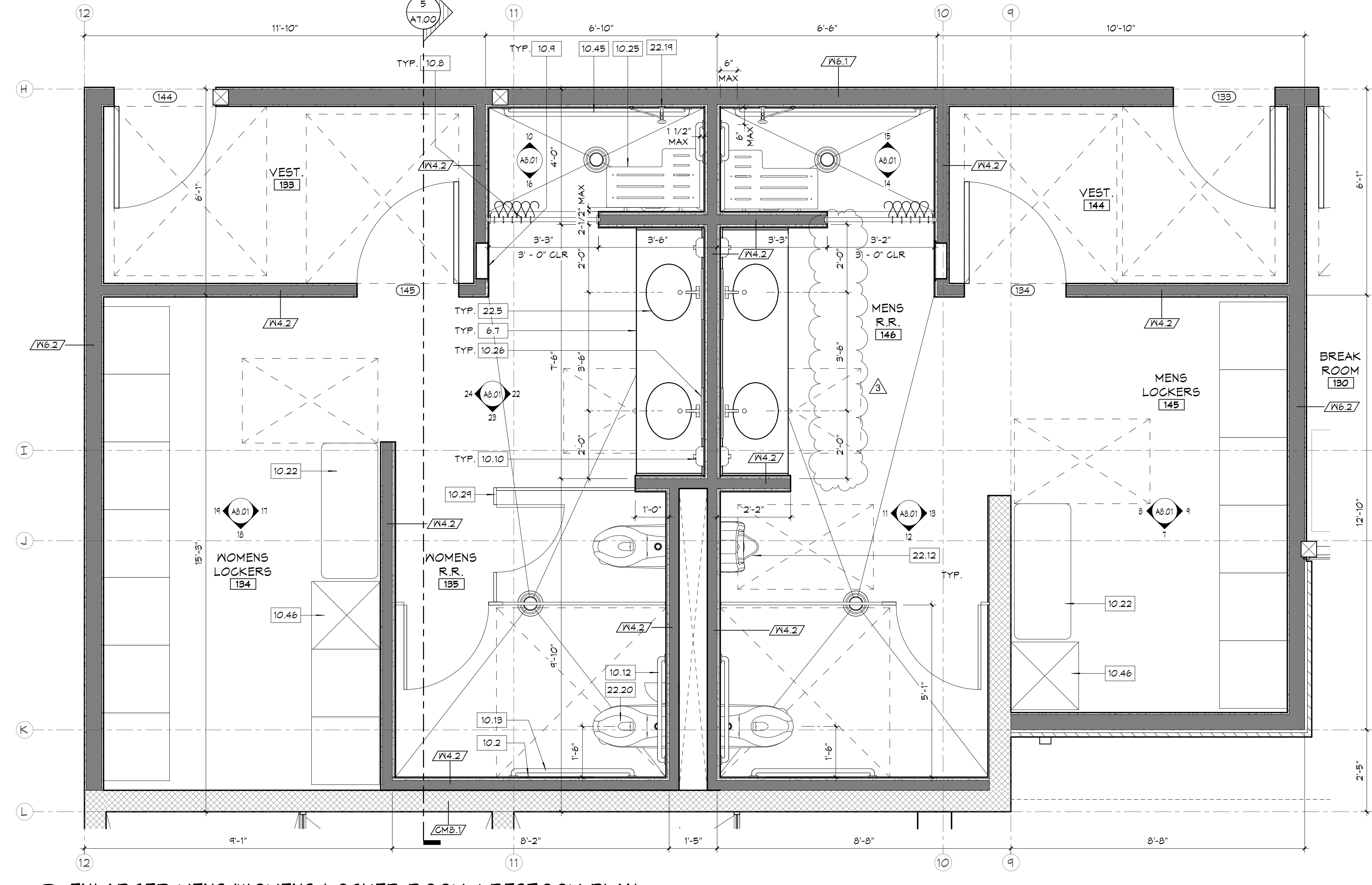
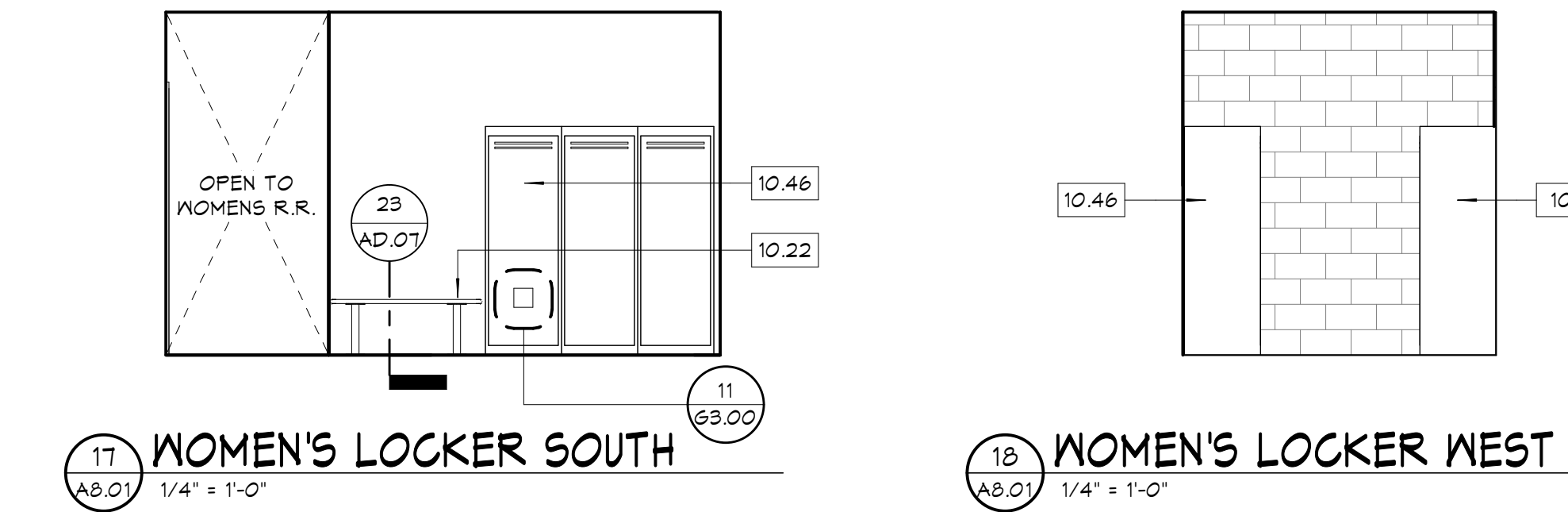
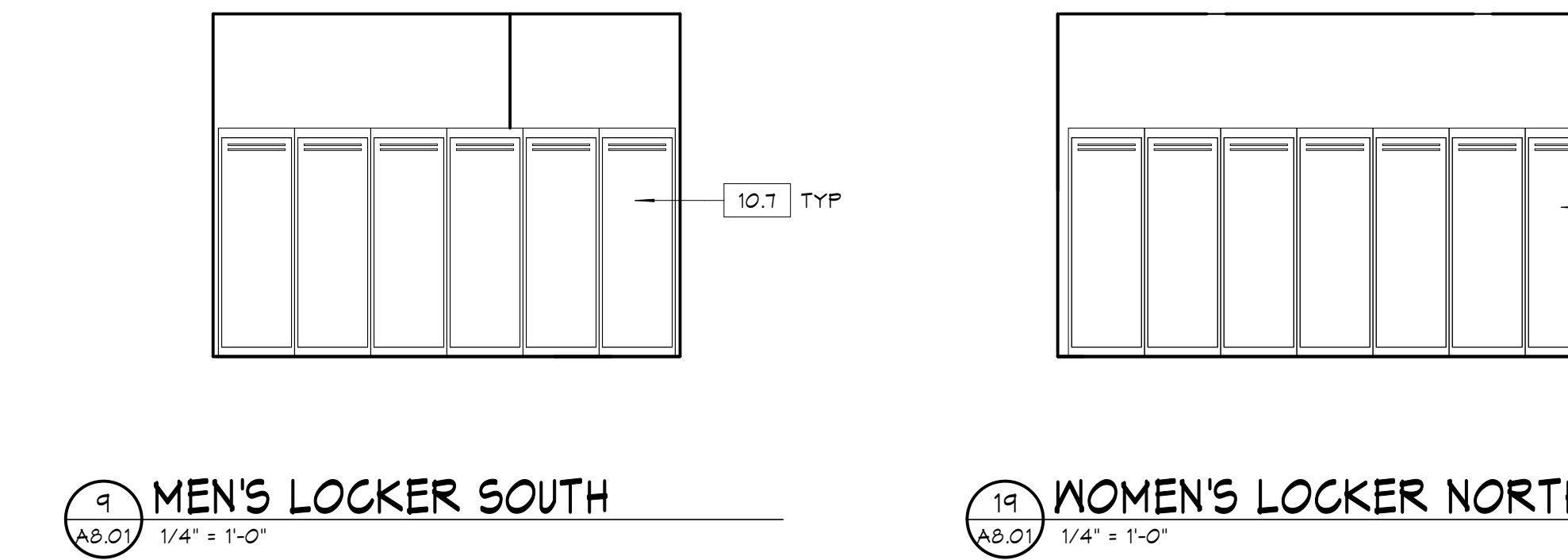
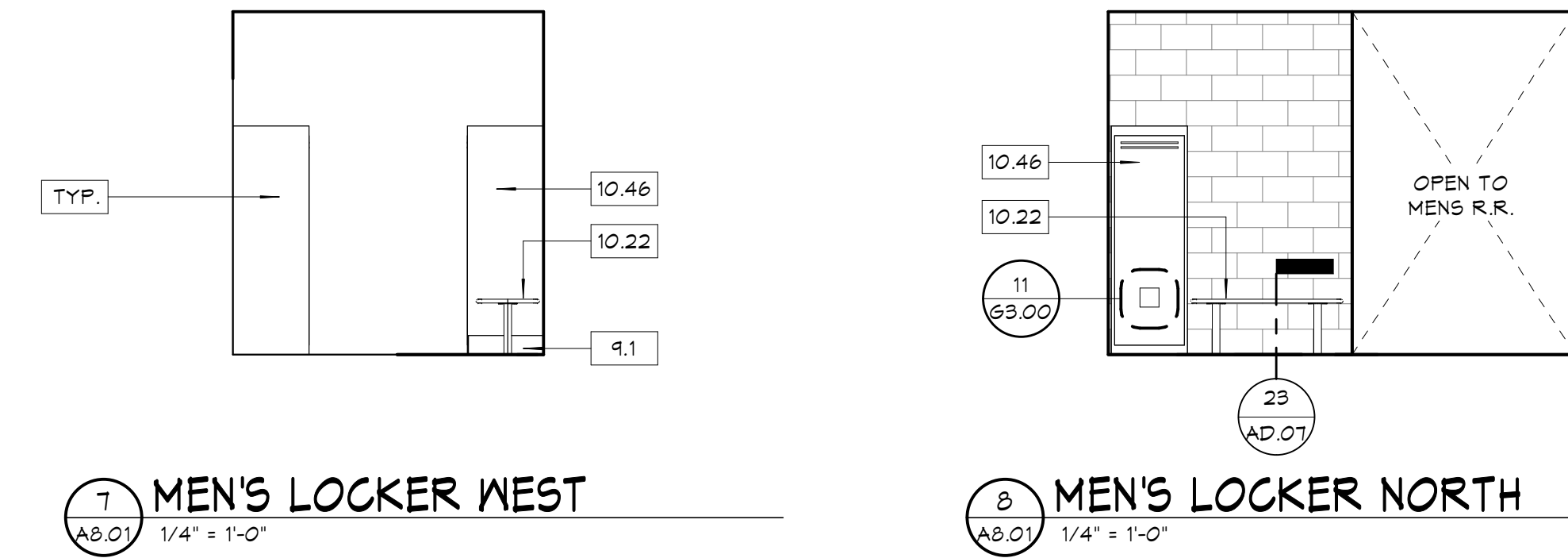
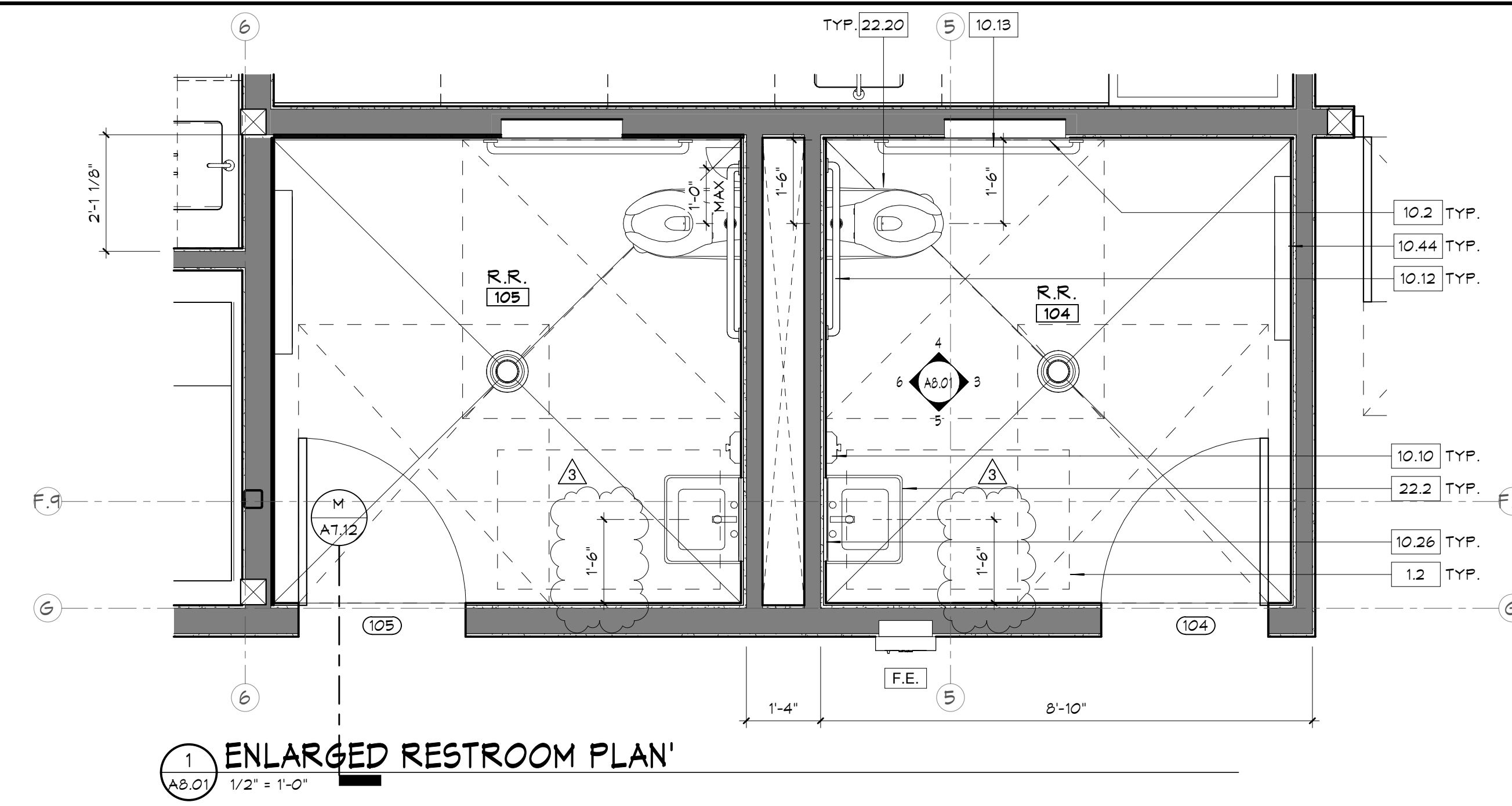
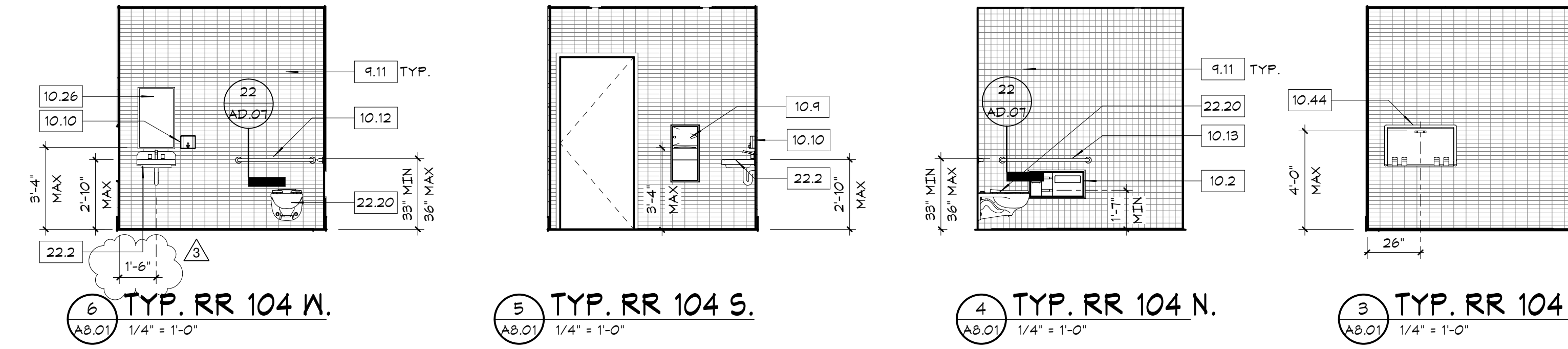
24 LOBBY 100 E.
A8.00 1/4" = 1'-0"



25 RECEPTION 102 N.
A8.00 1/4" = 1'-0"

KEYNOTES

- 1.2 30" X 48" MIN. GLR. FLOOR AREA
- 6.7 SOLID SURFACE COUNTERTOP WITH APRON AND 4" BACKSPLASH @ BACK AND SIDES - TOP @ 2'-10" A.F.F.
- 9.1 RUBBER BASE - REFER TO FINISH SCHEDULE
- 9.11 CERAMIC WALL TILE - REFER TO FINISH SCHEDULE
- 10.2 RECESSED TOILET TISSUE (PAPER SEAT COVER DISPENSER - MOUNT @ 18" HT. A.F.F. TO DISPENSER OUTLET AND 1" TO 4" FRONT OF BOWL TO CENTERLINE OF TOILET TISSUE DISPENSER
- 10.7 24" X 12" X 24" SINGLE STACK METAL LOCKER WITH SHELF, BENCH, AND HOOK; COLOR SELECTED BY ARCHITECT
- 10.8 S.S. SHOWER CURTAIN ROD AT 6'-5" U.O.N. W/ NON-TRANSLUCENT VINYL SHOWER CURTAIN W/ S.S. CURTAIN RINGS ON S.S. BALL-BEARINGS
- 10.4 RECESSED PAPER TOWEL DISPENSER WITH WASTE RECEPTACLE BIN - MOUNT DISPENSER OPENINGS @ 40" A.F.F.
- 10.10 SOAP DISPENSER, WALL MOUNTED, MOUNT CENTER OF CONTROLS @ 40" HT. A.F.F.
- 10.12 GRAB BAR 36" MOUNT TOP OF BAR AT 39" - 36" A.F.F.
- 10.13 GRAB BAR 42" MOUNT TOP OF BAR AT 39" - 36" A.F.F.
- 10.22 ADA COMPLIANT BENCH SEAT 20" WIDE X 48" LENGTH X 18" HIGH A.F.F.
- 10.25 ADA S.S. FOLDING SHOWER SEAT, MOUNT @ 11'-11" A.F.F.
- 10.26 18" X 36" MIRROR, W/ S.S. FRAME AND GROOMING SHELF - MOUNT @ 40" MAX A.F.F. TO BOTTOM OF REFLECTING SURFACE
- 10.29 PHENOLIC TOILET COMPARTMENTS W/ 24" WIDE IN-SAVING DRS. & BOTT. OF PANELS 12" A.F.F. MAX. - TYP.
- 10.44 RECESSED BABY CHANGING STATION - MOUNT TO PROVIDE CHANGING SURFACE @ 39" MAX. A.F.F.
- 10.45 SHOWER GRAB BAR PLACED MAX. 6" FROM ADJACENT WALL MOUNT TOP OF BAR AT 39" - 36" A.F.F.
- 10.46 ADA COMPLIANT LOCKER
- 22.2 WALL MOUNTED LAVATORY - MOUNT TOP OF RIM @ 2'-10" A.F.F.
- 22.5 UNDERMOUNT SINK - S.P.D.
- 22.12 ACCESSIBLE URINAL MOUNT RIM @ 15" MAX. HT. A.F.F. - S.P.D.
- 22.19 ACCESSIBLE HANDHELD SHOWER HEAD W/ CONTROLS AND DIVERTER - S.P.D.
- 22.20 FLOOR MOUNTED WATER CLOSET 17'-18" CENTERLINE TO WALL MOUNT SEAT @ 16" A.F.F. FLUSH ACTIVATOR ON WIDE SIDE - S.P.D.



FINISH SCHEDULE									
NO.	ROOM NAME	FLOOR	BASE	WALLS	CASEWORK		UPPER CABINET	CEILING	COMMENTS
					COUNTERTOP	P			
100	LOBBY	RS-1/2/3	RB-1	P-1/P-2/P-3	FL-3 & PL-4	SSM-2		CLG-8	SEE FINISH FLOOR PLAN FOR RUBBER SHEET LAYOUT
102	RECEPT.	RS-1/2/3	RB-1	P-1/P-2/P-3	FL-3 & PL-4	SSM-2		CLG-8	
103	COMMUNITY ROOM	RS-1/2/3	RB-1	P-1/P-2/P-3/P-4	FL-3	SSM-1		CLG-7	SEE FINISH FLOOR PLAN FOR RUBBER SHEET LAYOUT
103B	STORAGE	RS-1	RB-1	P-1				CLG-7	
104	R.R.	CT-1	SH-1	CT-2/3/4/5				CLG-7	SEE INTERIOR ELEVATIONS FOR TILE PATTERN
105	R.R.	CT-1	SH-1	CT-2/3/4/5				CLG-7	SEE INTERIOR ELEVATIONS FOR TILE PATTERN
106	ADOPTION HALL	RS-1/2/3	RB-1	P-1/P-3				CLG-7/8	
107	CAT ADOPTION HALL	RS-1/2/3	RB-1	P-1/P-2				CLG-8	
108	SM HAMMALS	EP-1	EP-1	HPG				CLG-10	
109	INTAKE CATS	EP-1	EP-1	FRP-1/HPG	PL-1	SS-1	PL-2	CLG-10	
110	ADOPT CATS	EP-1	EP-1	HPG	PL-1	SSM-1	PL-2	CLG-6	
111	FLEX	EP-1	EP-1	HPG				CLG-6	
112	PFE	SV-1	RB-1	FRP-1/HPG	PL-3	SS-1	PL-4	CLG-6	
113	ISO CATS	EP-1	EP-1	HPG				CLG-8	
114	DOG ADOPT HALL	RS-1/2/3	RB-1	P-1/P-2				CLG-8	
115	WORK ROOM	SV-1	RB-1	FRP-1/HPG	PL-3	SSM-1	PL-4	CLG-2	
116	MEET & GREET	EP-1	EP-1	ERG-1/HPG				CLG-1	
117	ADOPT DOGS	EP-1	EP-1	ERG-1/HPG				CLG-1	
118	ADOPT DOGS	EP-1	EP-1	ERG-1/HPG				CLG-1	
120	ADOPT DOGS	EP-1	EP-1	ERG-1/HPG				CLG-1	
121	ADOPT DOGS	EP-1	EP-1	ERG-1/HPG				CLG-1	
124	STAFF CIRC	LVT-1	RB-1	P-1/P-2/MS-1				CLG-4	SEE FINISH FLOOR PLAN FOR SHEET VINYL LAYOUT
125	FILE/COPY	LVT-1	RB-1	P-1/P-4	PL-1	SSM-1	PL-2	CLG-2	
126	STOR.	LVT-1	RB-1	P-1				CLG-4	
127	STAFF/AGO	LVT-1	RB-1	P-1/P-4	PL-1	SSM-1	PL-2	CLG-4	
128	WELLNESS	RB-LVT-1	RB-1	P-1/P-4	PL-1	SSM-1	PL-2	CLG-7	
129	OFFICE	LVT-1	RB-1	P-1/P-4				CLG-2	
130	BREAK ROOM	LVT-1	RB-1	P-1/P-4	PL-1	SSM-1	PL-2	CLG-4	
131	OFFICE	LVT-1	RB-1	P-1/P-4				CLG-4	
132	JAN./MECH.	SV-1	RB-1	P-1/FRP-1				CLG-7	
133	VEST.	LVT-1	RB-1	P-1/P-2				CLG-7	
134	WOMENS LOCKERS	RS-2/CT-1	RB-1/SH-1	P-1/P-2/CT-2/3/4/5		SSM-1		CLG-7	SEE INTERIOR ELEVATIONS FOR TILE PATTERN
135	WOMENS R.R.	RS-2/CT-1	RB-1/SH-1	P-1/P-2/CT-2/3/4/5		SSM-1		CLG-7	SEE INTERIOR ELEVATIONS FOR TILE PATTERN
136	LAUNDRY	EP-1	EP-1	P-1/P-4/FRP-1	PL-1	SS-1	PL-2	CLG-10	
137	LAUNDRY STOR.	EP-1	EP-1	P-1/FRP-1				CLG-7	
138	IT	CONG-1	RB-1	P-1				CLG-7	
139	FOOD PREP	EP-1	EP-1	HPG	PL-1	SS-1	PL-2	CLG-10	
140	FOOD STOR.	CONG-1	RB-1	HPG				CLG-7	
141	BUTH	EP-1	EP-1	FRP-1/HPG	PL-1	SS-1	PL-2	CLG-10	
142	INTAKE/GROOMING	EP-1	EP-1	FRP-1/HPG	PL-1	SS-1	PL-2	CLG-10	
143	SALLYPORT	CONG-1	RB-1	HPG				OPEN TO ABOVE	
144	VEST.	LVT-1	RB-1	P-1/P-2				CLG-7	SEE INTERIOR ELEVATIONS FOR TILE PATTERN
145	MENS LOCKERS	RS-2/CT-1	RB-1/SH-1	P-1/P-2/CT-2/3/4/5		SSM-1		CLG-7	
146	MENS R.R.	RS-2/CT-1	RB-1/SH-1	P-1/P-2/CT-2/3/4/5		SSM-1		CLG-7	SEE INTERIOR ELEVATIONS FOR TILE PATTERN
147	PFE VEST.	SV-1	RB-1	FRP-1/HPG	PL-3	SS-1	PL-4	CLG-1	
148	MED ISO DOGS	EP-1	EP-1	ERG-1/HPG				CLG-1	
149	FLEX	EP-1	EP-1	ERG-1/HPG				CLG-1	
150	INTAKE FLEX	EP-1	EP-1	ERG-1/HPG				CLG-1	
152	EXTERIOR ISO YARD	CONG-1	RB-1	ERG-1				OPEN TO ABOVE	
152	CATIO	EP-1	EP-1	PH-1				CLG-4	
153	EXT ISO DOGS	CONG-1	RB-1	ERG-1				OPEN TO ABOVE	
154	ELECT.	CONG-1	RB-1	P-1				CLG-7	
155	F.R.	CONG-1	RB-1	P-1				CLG-4	
156	STOR.	CONG-1	RB-1	P-1				CLG-7	
157	CATIO	EP-1	EP-1	PH-1				CLG-4	

FINISH MATERIALS						
DESIGNATION	MATERIAL	MANUFACTURER	STYLE	COLOR	SIZE	COMMENTS/ INSTALLATION PATTERN
FLOOR						
CONG-1	SEALED CONCRETE					
CT-1	CERAMIC TILE	DALTILE	KEYSTONES	MOTTLED MEDIUM BROWN BOBO	2x2	
EP-1	EPOXY RESINOUS FLOOR	SHERWIN WILLIAMS	HYBRIFLEX AC	GREEKBED FB-116	1/4 FLAKE & 1/16" BLEND	
LVT-1	LUXURY VINYL TILE	MANNINGTON	AMTIGO SIGNATURE	BORDEAUX OAK ARDMB450		
RS-1	RUBBER SHEET	NORA	NORAPLAN - SENTIGA	CASHMERE 6506		PATTERN PER FINISH FLOOR PLAN
RS-2	RUBBER SHEET	NORA	NORAPLAN - DARVIA	HEMLOCK 1116		PATTERN PER FINISH FLOOR PLAN
RS-3	RUBBER SHEET	NORA	NORAPLAN - DARVIA	RED MAPLE 1113		
SV-1	SHEET VINYL	TARKETT	IQ EMINENT	WARM LIGHT GREY NS 0219		
WALL BASE						
RB-1	RUBBER BASE	MANNINGTON	TYPE TS	CHARCOAL 217	6"	
SH-1	SCHLUTER JOLLY	SCHLUTER SYSTEMS	DILEX-AWK	SATIN ANODIZED ALUMINUM	6"	
SV-1	SHEET VINYL COVED	TARKETT	IQ EMINENT	WARM LIGHT GREY NS 0219	6"	
WALL						
CT-2	CERAMIC TILE	AMERICAN OLEAN	COLOR STORY WALL	CALM 0035	4" X 12"	FIELD : STACKED BOND VERTICAL, LOCATIONS PER TYP. TILE ELEVATIONS
CT-3	CERAMIC TILE	DALTILE	NATURAL HUES	TUSCANY NH14	4" X 8"	ACCENT : STACKED BOND VERTICAL, LOCATIONS PER TYP. TILE ELEVATIONS
CT-4	CERAMIC TILE	DALTILE	NATURAL HUES	DIJON NH13	2" X 8"	ACCENT : STACKED BOND VERTICAL, LOCATIONS PER TYP. TILE ELEVATIONS
CT-5	CERAMIC TILE	AMERICAN OLEAN	NATURAL HUES	REAL TEAL NH66	2" X 8"	ACCENT : STACKED BOND VERTICAL, LOCATIONS PER TYP. TILE ELEVATIONS
ERG-1	EPOXY RESIN COATINGS	SHERWIN WILLIAMS	RESUWALL VC	GREEKBED FB-116	1/4 FLAKE & 1/16" BLEND	
FRP-1	FIBER REINFORCED PLASTIC	CONSTRUCTION SPECIALTIES	ACROVYN	OZARK 314		
HPG	EPOXY PAINT			VARYING COLORS PER ARCHITECT		FIELD & ACCENT COLORS SELECTED BY ARCHITECT
P-1	PAINT	DUNN EDWARDS		WEATHER DEC713		FIELD COLOR, WALLS TO BE P-1 U.O.N
P-2	PAINT	DUNN EDWARDS		AFTER THE STORM DE5169		ACCENT, LOCATIONS SELECTED BY ARCHITECT
P-3	PAINT	DUNN EDWARDS		BREAD CRUST DE3370		ACCENT, LOCATIONS SELECTED BY ARCHITECT
P-4	PAINT	DUNN EDWARDS		COPPER MINING DET455		ACCENT, LOCATIONS SELECTED BY ARCHITECT
PH-1	PHENOLIC WALL PANEL	TRESPA	MATCH EXTERIOR	MATCH EXTERIOR		
MS-1	WALL & CORNER GUARDS	INFRO	SELECTED BY ARCHITECT	SELECTED BY ARCHITECT		
CASEWORK						
PL-1	PLASTIC LAMINATE	KILSONART		GRAPHITE 10657-60		
PL-2	PLASTIC LAMINATE	KILSONART		STRIATION Y0418K-07		
PL-3	PLASTIC LAMINATE	KILSONART		LANDMARK MOOD 7481K-12		
PL-4	PLASTIC LAMINATE	KILSONART		SPRUCE VELVET 15510		
SS-1	STAINLESS STEEL					
SSM-1	SOLID SURFACE MATERIAL	CORIAN		ARCTIC ICE		
SSM-2	SOLID SURFACE MATERIAL	CORIAN		CARBON AGGREGATE		
CEILING						
CLG-1	ACOUSTICAL CEILING TILE	ARMSTRONG, CERAMA GUARD			24" X 24"	
CLG-2	ACOUSTICAL CEILING TILE	ARMSTRONG, CERAMA GUARD			24" X 24"	
CLG-3	ACOUSTICAL CEILING TILE	ARMSTRONG, ULTIMA HEALTH ZONE			24" X 24", REGULAR WITH 9/16" GRID	
CLG-4	ACOUSTICAL CEILING TILE	ARMSTRONG, ULTIMA HEALTH ZONE			24" X 24", 1942 WITH 9/16" GRID	
CLG-5	ACOUSTICAL CEILING TILE	ARMSTRONG, ULTIMA HEALTH ZONE			24" X 24", 1945 WITH 9/16" GRID	
CLG-6	ACOUSTICAL CEILING TILE	ARMSTRONG, ULTIMA HEALTH ZONE			24" X 24", WITH SECURITY CLIPS, 1942 WITH 9/16" GRID	
CLG-7	GYPSUM BOARD TYPE 'X' METAL SOFFIT PANEL	BY CONTRACTOR				
CLG-8	ARMSTRONG, METALWORKS	DIVERGE, PERFORATED IV/ACOUSTICAL BACKING				VARYING WIDTHS & LENGTHS, SELECTED BY ARCHITECT (SEE DETAIL 3/A 9.00 FOR PATTERN)
CLG-9	EXTERIOR METAL SOFFIT PANEL	ARMSTRONG, METALWORKS				VARYING WIDTHS & LENGTHS
CLG-10	ACOUSTICAL CEILING TILE	ARMSTRONG, ULTIMA HEALTH ZONE			24" X 24", REGULAR WITH 9/16" GRID	
MISC						
ACOU-1	ACOUSTICAL PRODUCT	MDG	ZINTRA	FOSSIL		CUSTOM SHAPE SELECTED BY ARCHITECT
ACOU-2	ACOUSTICAL PRODUCT	MDG	ZINTRA	MALACHITE		CUSTOM SHAPE SELECTED BY ARCHITECT
ACOU-3	ACOUSTICAL PRODUCT	MDG	ZINTRA	BRICK		CUSTOM SHAPE SELECTED BY ARCHITECT
TP-1	TOILET PARTITION	BOBRICK/FUNDERMAX	PHENOLIC	SILVERETTA 0229 FH		

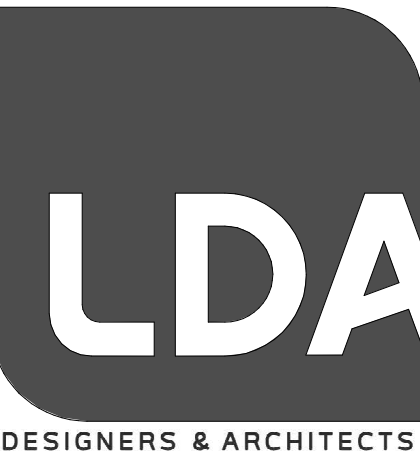
GENERAL NOTES

CASEWORK

1. ALL CASEWORK TO FOLLOW AMS GUIDELINES.
2. ALL LAMINATE PATTERN TO RUN **HORIZONTALLY** UNLESS OTHERWISE NOTED.
3. ALL SOLID SURFACING TO HAVE SQUARE EDGING.
4. ALL OPEN CASEWORK TO HAVE MATCHING LAMINATE AS EXTERIOR FACING.
5. ALL INTERIOR CASEWORK MELAMINE TO BE WHITE.
6. CONTRACTOR TO MEET OR EXCEED NAAMS 3.0 CUSTOM OR PREMIUM GRADE STANDARDS

INTERIOR

1. ALL GYPSUM BOARD WALLS AND CEILINGS TO BE LEVEL 5 FINISH, UNLESS OTHERWISE NOTED.
2. ALL GYPSUM BOARD WALLS AND CEILINGS TO BE PAINTED P-1, UNLESS OTHERWISE NOTED.
3. ALL RESTROOMS TO HAVE TILE PATTERN 1 AT WALLS UNLESS OTHERWISE NOTED. SEE TILE PATTERN ELEVATIONS, THIS SHEET.
4. REFER TO ROOM FINISHES PLAN FOR FLOORING PATTERNS, WHERE OCCURS



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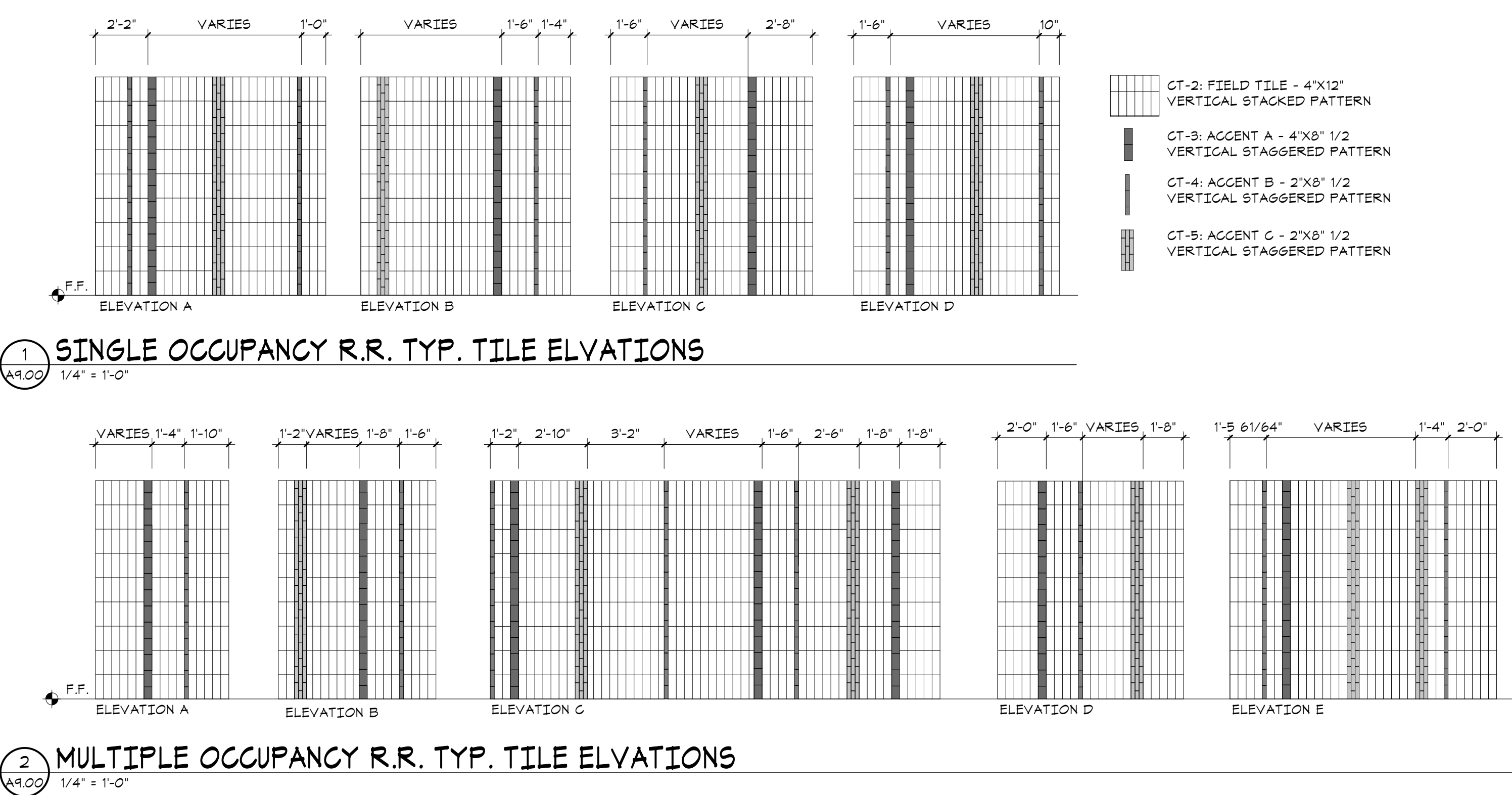
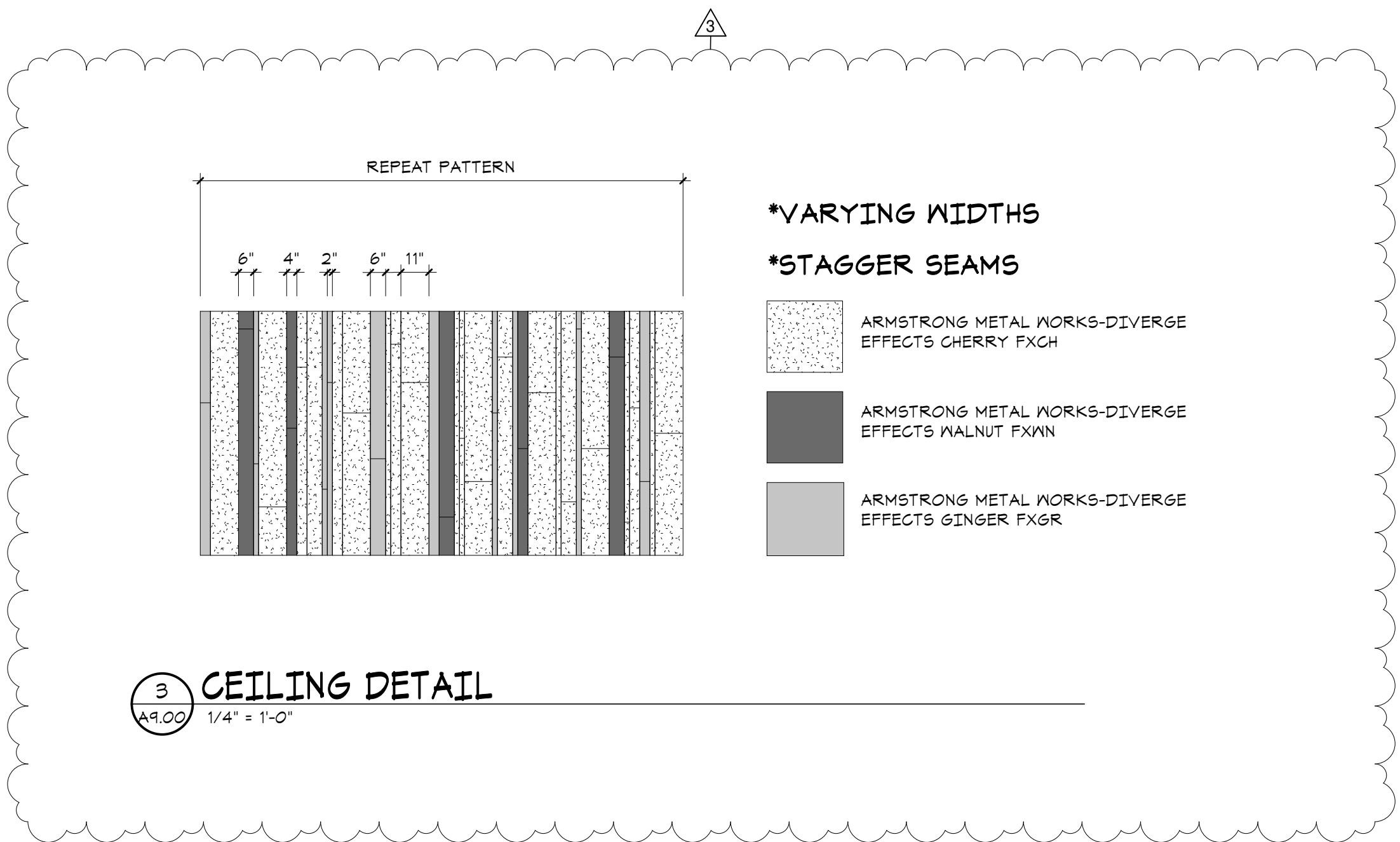


Client:
CITY OF LATHROP

390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA. 95330



Project No.: 510-08-23
Drawn By: BP
Checked By: PA

No.	Description	Date	By
2	PC #3	6/10/2025	
3	ADDENDA #2	7/10/2025	PA

ADDENDA #2
7/10/2025

FINISH SCHEDULE

DOOR SCHEDULE																
NO.	TYPE	PANEL		SIDELIGHT WIDTH	PANEL			DETAILS				FIRE RATING	HDWR. GROUP			COMMENTS
		DOOR WIDTH 1	DOOR WIDTH 2		HEIGHT	THICKNESS	CORE	FRAME	HEAD	JAMB	THRESHOLD / SILL					
100	B	3'-0"	3'-0"		T - 10 3/4"	1 3/4"	ALUM.	ALUM.	9/AD 05	10/AD 05	13/AD 05		GROUP 100			
103A	A	3'-0"			T - 10"	1 3/4"	ALUM.	ALUM.	9/AD 05	10/AD 05			GROUP 4			
103B	B	3'-0"	3'-0"		T - 10 3/4"	1 3/4"	ALUM.	ALUM.	9/AD 05	10/AD 05	13/AD 05		GROUP 100			
103C	E	3'-0"	3'-0"		T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 14			
104	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 25	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW		
105	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 25	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW		
106	A	3'-0"			T - 10"	1 3/4"	ALUM.	ALUM.	1/AD 05	10/AD 05	13/AD 05		GROUP 101			
107	A	3'-0"			T - 10"	1 3/4"	ALUM.	ALUM.	12/AD 05	12/AD 05			GROUP 4			
108	A	3'-0"			T - 10"	1 3/4"	ALUM.	ALUM.	12/AD 05	12/AD 05			GROUP 3			
104	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 8			
110A	A	3'-0"			T - 10"	1 3/4"	ALUM.	ALUM.	12/AD 05	12/AD 05			GROUP 3			
110B	A	3'-0"			T - 10"	1 3/4"	ALUM.	ALUM.	1/AD 05	10/AD 05	13/AD 05		GROUP 101			
111A	A	3'-0"			T - 10"	1 3/4"	ALUM.	ALUM.	12/AD 05	12/AD 05			GROUP 3			
111B	A	3'-0"			T - 10"	1 3/4"	ALUM.	ALUM.	1/AD 05	10/AD 05	13/AD 05		GROUP 101			
112	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 8			
113	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 15			
114A	B	3'-0"	3'-0"		T - 10"	1 3/4"	ALUM.	ALUM.	12/AD 05	12/AD 05			GROUP 1			
114B	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05	3/AD 05		GROUP 103			
114C	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05	3/AD 05		GROUP 103			
114D	B	3'-0"	3'-0"		T - 11"	1 3/4"	ALUM.	ALUM.	2/AD 05	2/AD 05	3/AD 05		GROUP 100			
115	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 11			
116A	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 23			
116B	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05	3/AD 05		GROUP 103			
117	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 6			
118A	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	4/AD 05	4/AD 05			GROUP 6			
118B	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	4/AD 05	4/AD 05			GROUP 6			
120A	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	4/AD 05	4/AD 05			GROUP 6			
120B	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	4/AD 05	4/AD 05			GROUP 6			
121A	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 6			
121B	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 6			
124A	D	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	1/AD 05	1/AD 05			GROUP 8			
124B	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 106			
124C	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05	3/AD 05		GROUP 106			
124D	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05	3/AD 05		GROUP 106			
125	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 15			
126	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 15			
127	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 8			
128	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 22			
129	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 21			
130A	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 15			
130B	A	3'-0"			T - 10"	1 3/4"	ALUM.	ALUM.	1/AD 05	10/AD 05	13/AD 05		GROUP 103			
131	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 21			
132	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 12	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW		
133	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 20			
134	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 20	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW		
136	E	3'-0"	2'-0"		T - 0"	2"	H.M.	H.M.	1/AD 05	1/AD 05		1HR	GROUP 16			
137	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05		1HR	GROUP 16			
138	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 8			
139	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 10			
140A	C	3'-0"	2'-0"		T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 14			
140B	H	3'-0"			8'-0"	2"	HL		14/AD 05	15/AD 05						
141A	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 10	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW		
141B	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 106			
142A	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 10			
142B	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 106			
143A	D	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	6/AD 05	6/AD 05	3/AD 05		GROUP 106			
143B	D	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	6/AD 05	6/AD 05	3/AD 05		GROUP 106			
143C	H	12'-0"			10'-0"	2"	HL		11/AD 05	20/AD 05	20/AD 05					
143D	H	12'-0"			10'-0"	2"	HL		11/AD 05	20/AD 05	20/AD 05					
144	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 20			
145	D	3'-0"			T - 0"	1 3/4"	IND	ALUM.	1/AD 05	1/AD 05			GROUP 20	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW		
147	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 11	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW		
148A	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 11	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW		
148B	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 6	PROVIDE 3/4" DOOR UNDERCUT FOR EXHAUST AIR FLOW		
149	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 6			
150	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05			GROUP 6			
152A	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05	3/AD 05		GROUP 106			
152B	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05	3/AD 05		GROUP 105			
153	F	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	2/AD 05	2/AD 05	3/AD 05		GROUP 105			
154	D	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	6/AD 05	6/AD 05	3/AD 05		GROUP 107	PROVIDE DOOR LOUVERS, SMD		
155	D	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	6/AD 05	6/AD 05	3/AD 05		GROUP 105			
156	D	3'-0"			T - 0"	1 3/4"	H.M.	H.M.	6/AD 05	6/AD 05	3/AD 05		GROUP 107			
G1	GA-1	3'-0"			4'-0"	1"	G.P.	STL					GROUP 104			
G2	GA-1	3'-0"			4'-0"	1"	G.P.	STL					GROUP 104			
G3	GA-1	3'-0"			8'-0"	1"	G.P.	STL					GROUP 104			
G4	GA-1	3'-0"			8'-0"	1"	G.P.	STL					GROUP 111			
G5	GA-1	3'-0"			8'-0"	1"	G.P.	STL					GROUP 111			
G6	GA-1	3'-0"			8'-0"	1"	G.P.	STL					GROUP 111			
G7	GA-1	3'-0"			8'-0"	1"	G.P.	STL					GROUP 112			
G8	GA-1	3'-0"			8'-0"	1"	G.P.	STL					GROUP 112			
G9	GA-1	3'-0"			8'-0"	1"	G.P.	STL					GROUP 112			
G10	GA-2	4'-0"	4'-0"		8'-0"	1"	G.P.	STL					GROUP 110			
G11	GA-2	4'-0"	4'-0"		8'-0"	1"	G.P.	STL					GROUP 110			
G12	GA-1	3'-0"			8'-0"	1"	G.P.	STL					GROUP 112			
G13	GA-1	3'-0"			8'-0"	1"	G.P.	STL					GROUP 110			
G14	GA-1	3'-0"			8'-0"	1"	G.P.	STL					GROUP 110			
G15	GA-1	3'-0"			8'-0"	1"	G.P.	STL					GROUP 110			
G16	GA-1	3'-0"			8'-0"	1"	G.P.	STL					GROUP 110			

NOTES:
• MOUNT HARDWARE 2'-10" TO 4'-0" A.F.F. PER 2025 CBC 1010.2.3
• PUSH-PULL HANDLES AND CLOSERS TO BE SINGLE-ACTION ACTIVATED WITH 5 LBS PRESSURE MAXIMUM. FIRE-RATED DOORS EXCLUDED.

GENERAL NOTES

- FURNISH & INSTALL A READILY VISIBLE, DURABLE SIGN ABOVE EXIT DOORS STATING "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS". THE SIGN SHALL BE IN LETTERS NOT LESS THAN 1 INCH HIGH ON A CONTRASTING BACKGROUND. WHEN UNLOCKED, THE EXIT DOOR(S) MUST BE FREE TO SWING WITHOUT OPERATION OF ANY LATCHING DEVICE.
- THE FINISH OF ALL ALUMINUM STOREFRONT DOOR FRAMES SHALL BE CLEAR ANODIZED, U.O.N.
- STOREFRONT DOOR LOCKS SHALL BE FURNISHED WITH A 3/4" HOOK OR EXPANDING BOLT TO COMPLY WITH FIRE DEPARTMENT REQUIREMENTS.
- REFER TO STOREFRONT SCHEDULE FOR GLASS TYPES, REFER TO SHEET 63.00 & 63.01 FOR ACCESSIBILITY NOTES & DETAILS.

DOOR NOTES

- ALL DOORS THAT ARE HAND ACTIVATED SHALL BE OPERABLE WITH A SINGLE EFFORT BY A LEVER TYPE HARDWARE, PANIC BAR, PUSH/PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
- MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR AND INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS.
- COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT TO EXCEED 15 LBS.
- EXIT DOORS SHALL BE FURNISHED & INSTALLED WITH HARDWARE ALLOWING DOOR TO BE OPENED FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. PAIRS OF EXIT DOORS SHALL BE FURNISHED & INSTALLED WITH APPROVED AUTOMATIC FLUSH BOLTS ON ONE OF THE DOOR LEAVES AND NO SURFACE MOUNTED HARDWARE INSTALLED ON THE SAME LEAF. THE UNLATCHING OF BOTH DOOR LEAVES SHALL NOT REQUIRE MORE THAN ONE OPERATION.
- FURNISH & INSTALL A READILY VISIBLE, DURABLE SIGN ABOVE EXIT DOORS STATING "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS". THE SIGN SHALL BE IN LETTERS NOT LESS THAN 1 INCH HIGH ON A CONTRASTING BACKGROUND. WHEN UNLOCKED, THE EXIT DOOR(S) MUST BE FREE TO SWING WITHOUT OPERATION OF ANY LATCHING DEVICE.
- THE FINISH OF ALL ALUMINUM STOREFRONT DOOR FRAMES SHALL BE DARK BRONZE, U.O.N.
- STOREFRONT DOOR LOCKS SHALL BE FURNISHED WITH A 3/4" HOOK OR EXPANDING BOLT TO COMPLY WITH FIRE DEPARTMENT REQUIREMENTS.
- ALL GLAZING IN DOOR LITES SHALL BE TEMPERED GLASS.
- REFER TO SHEET 64.00 & 64.01 FOR ACCESSIBILITY NOTES & DETAILS.



Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
209-943-0405
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Client:
CITY OF LATHROP

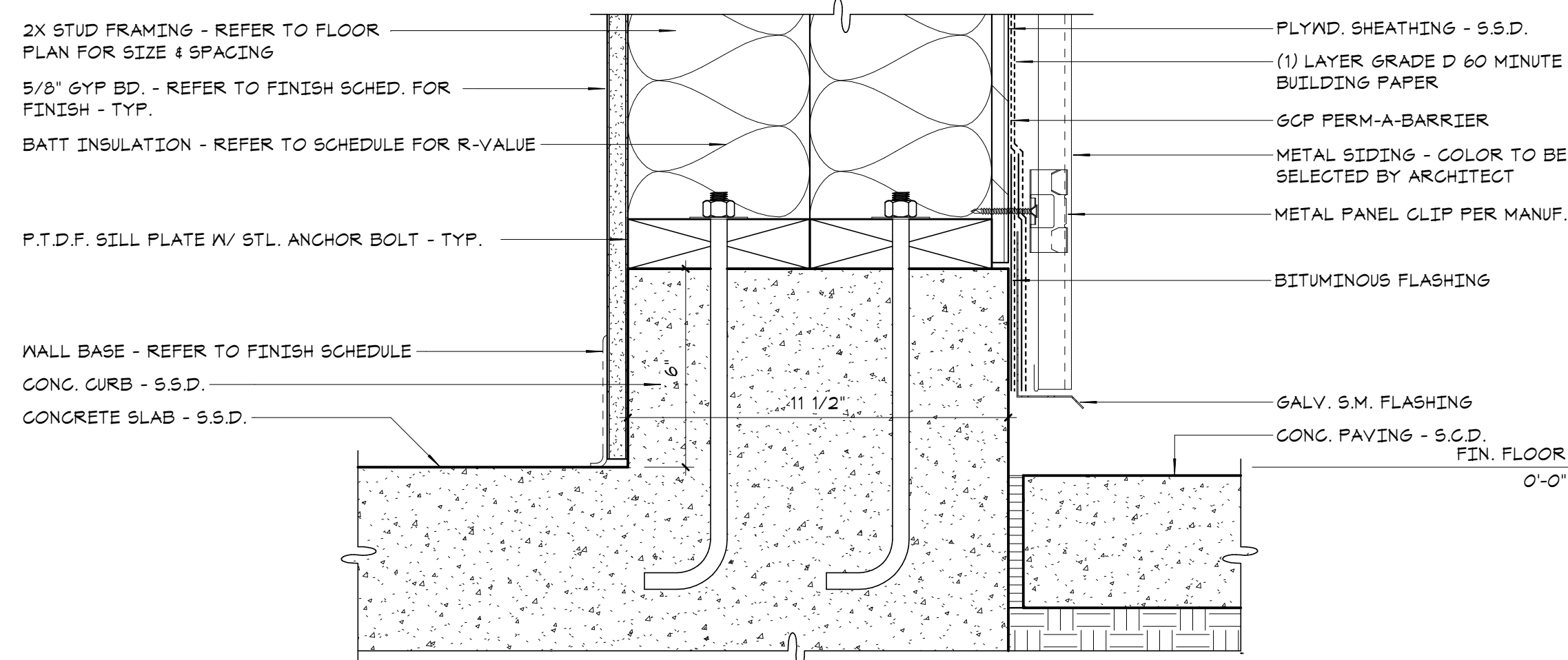
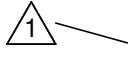
390 Towne Center Dr.
Lathrop, CA 95330
209-941.7200

Project:
LATHROP ANIMAL CENTER

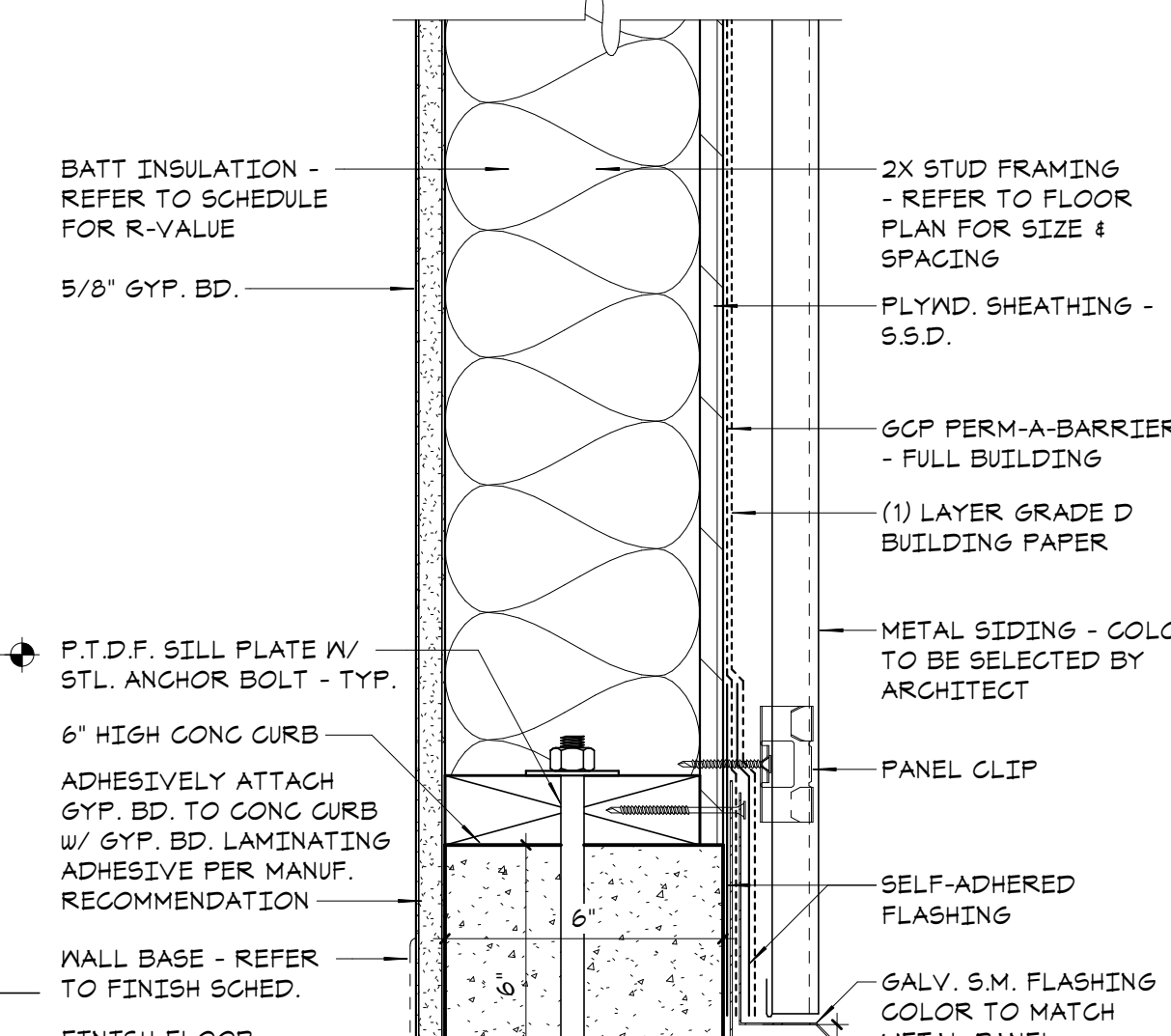
15005 STANFORD CROSSING
LATHROP, CA. 95330

Project No.: 510-08-23
Drawn By: MG
Checked By: PA

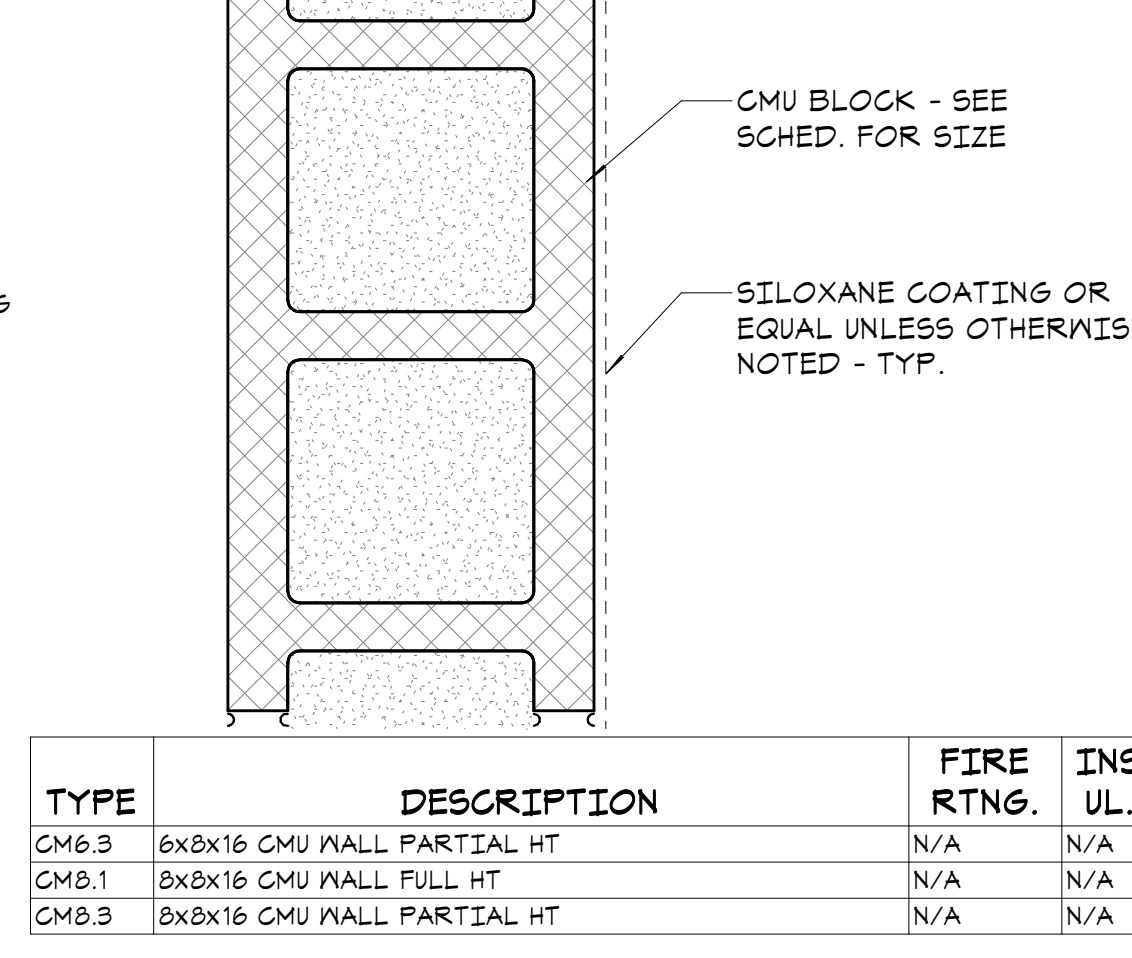
No.	Description	Date	By
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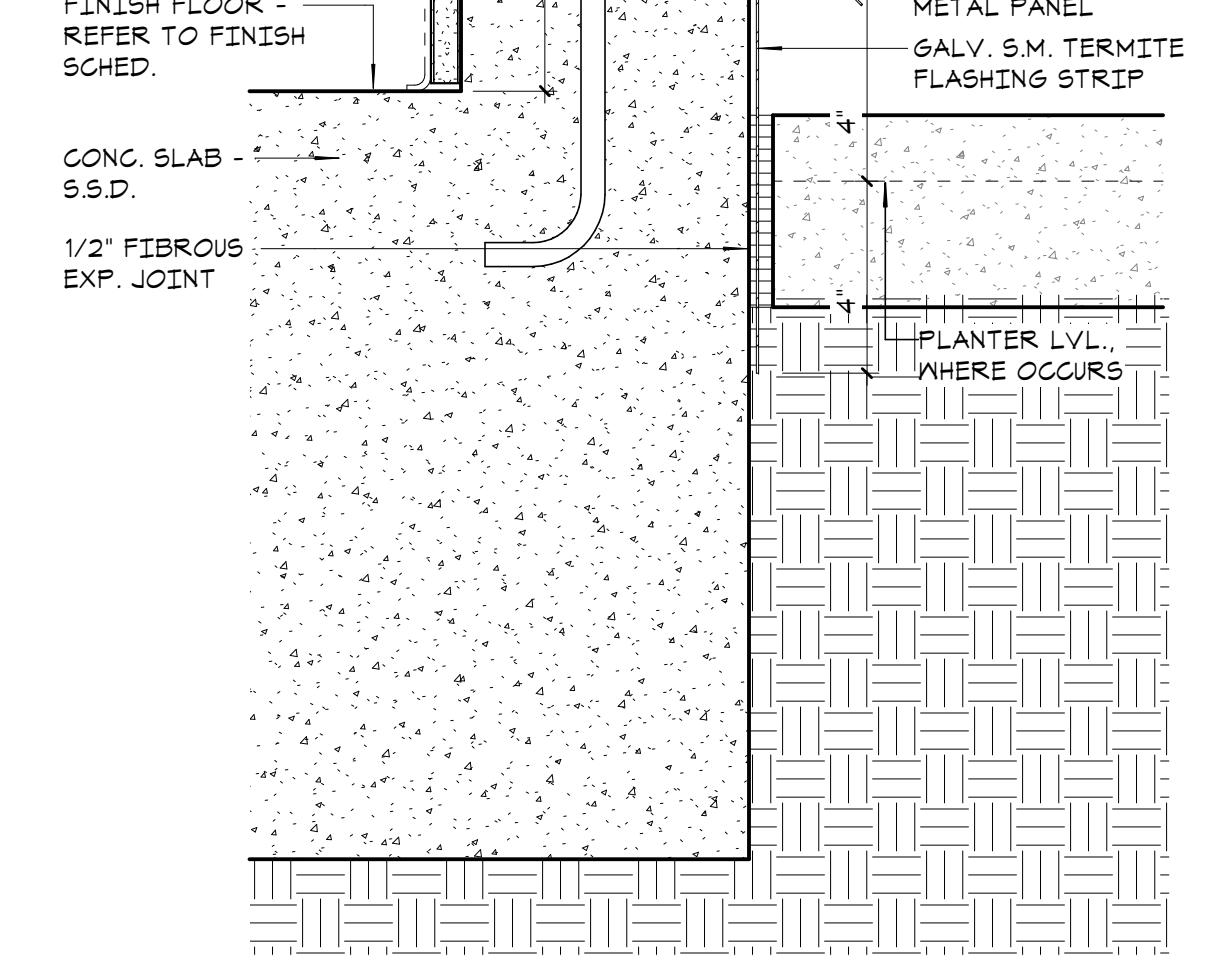
21 CONC. CURB AT METAL PANEL SIDING AT COMMUNITY ROOM
AD 01 3' x 1'-0"



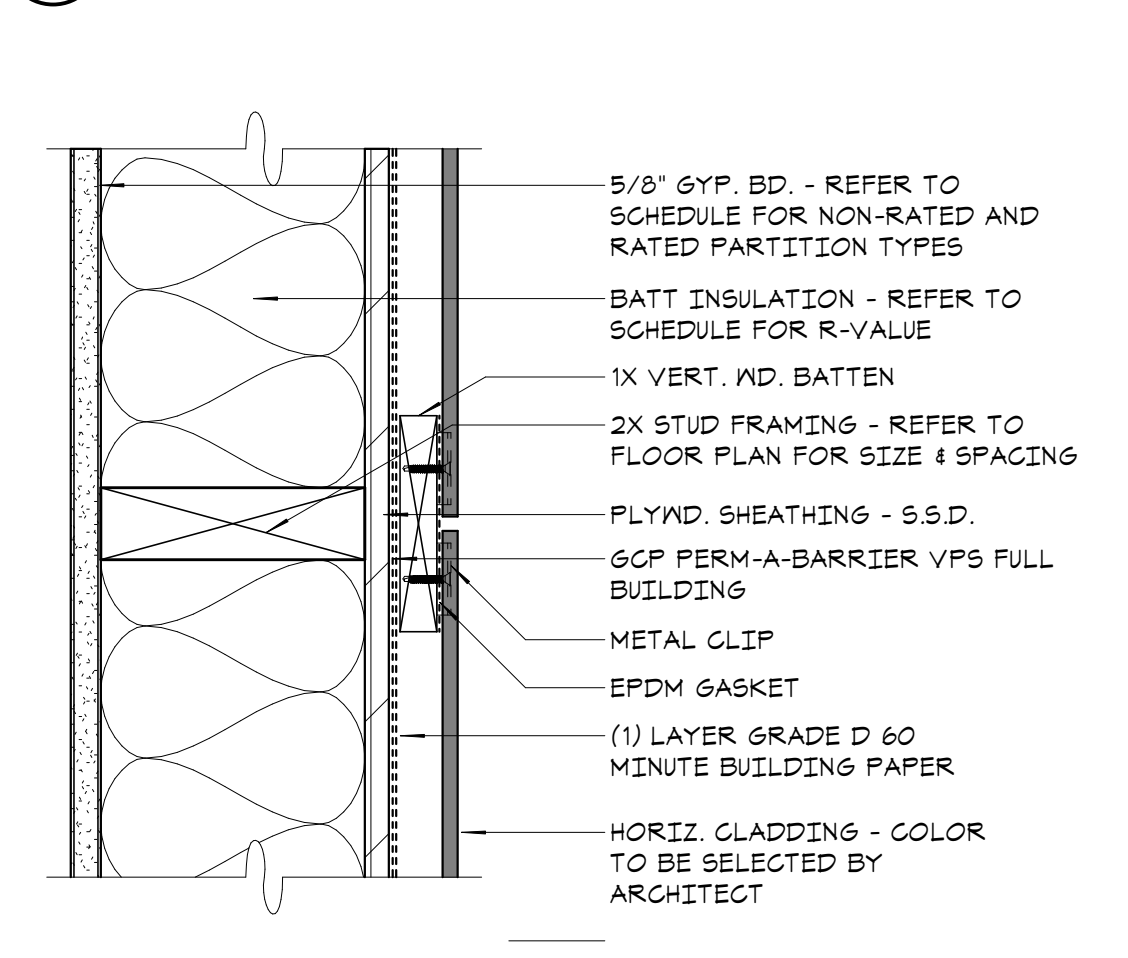
6 EXT. WALL AT STONE VENEER
AD 01 3' x 1'-0"



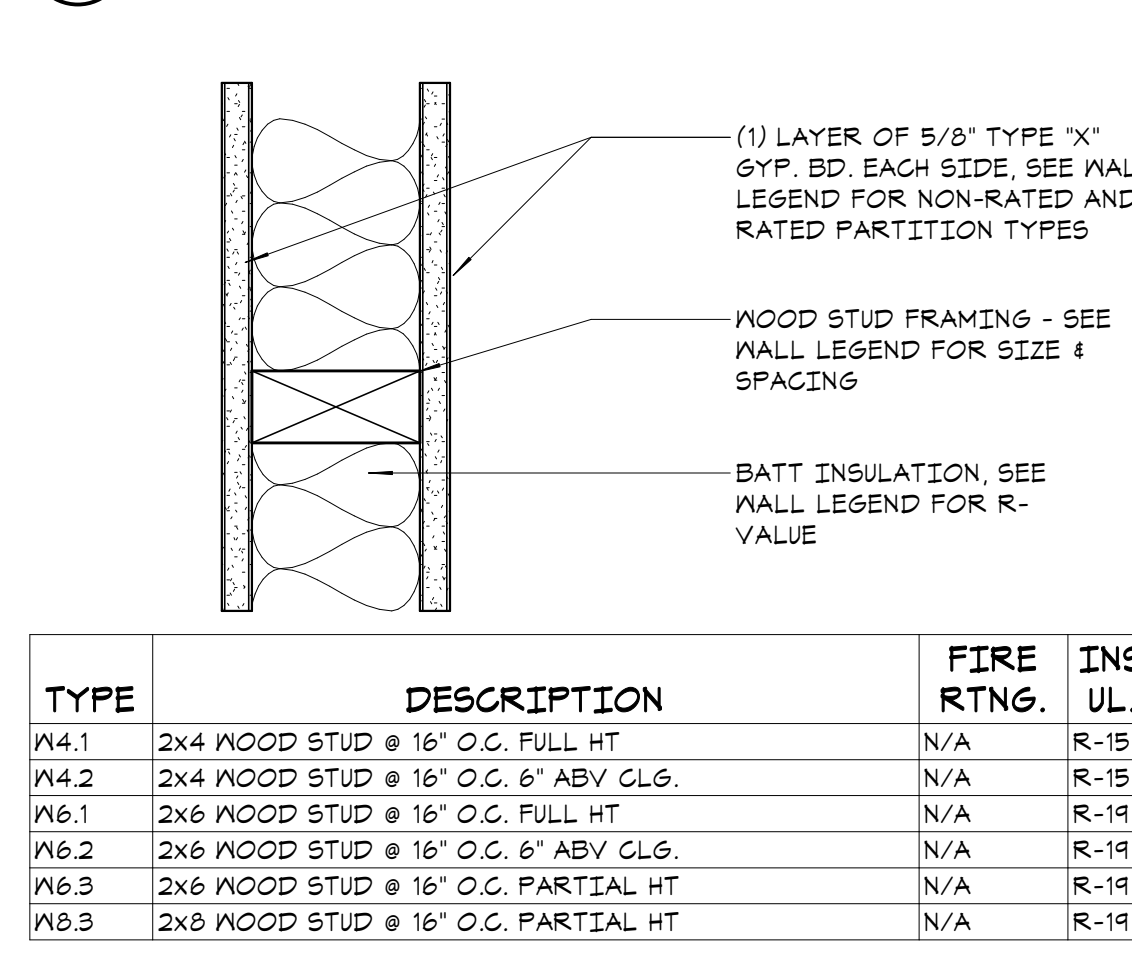
1 CMU WALL TYPE
AD 01 3' x 1'-0"



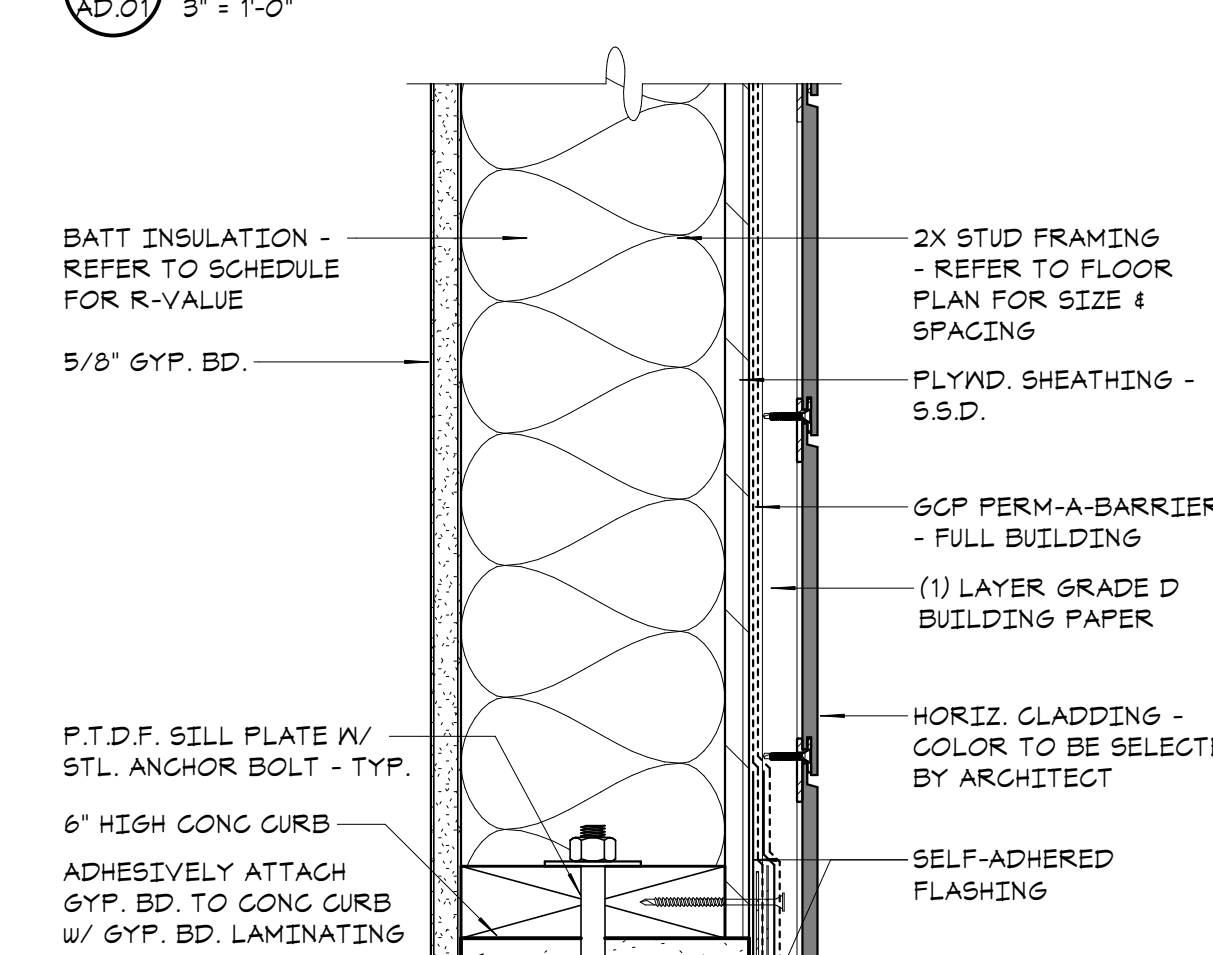
12 CONC. CURB AT METAL PANEL SIDING
AD 01 3' x 1'-0"



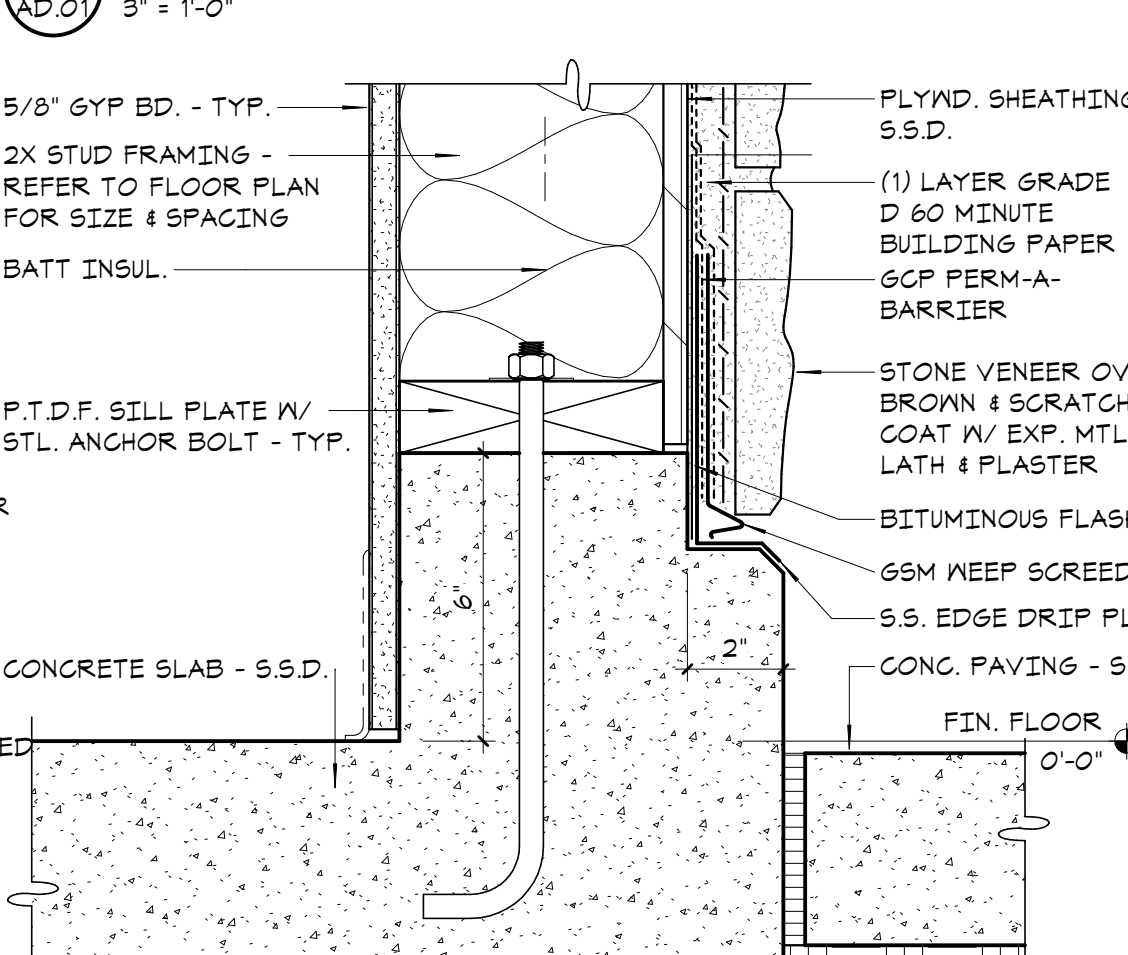
7 EXT. WALL AT HORIZ. CLADDING
AD 01 3' x 1'-0"



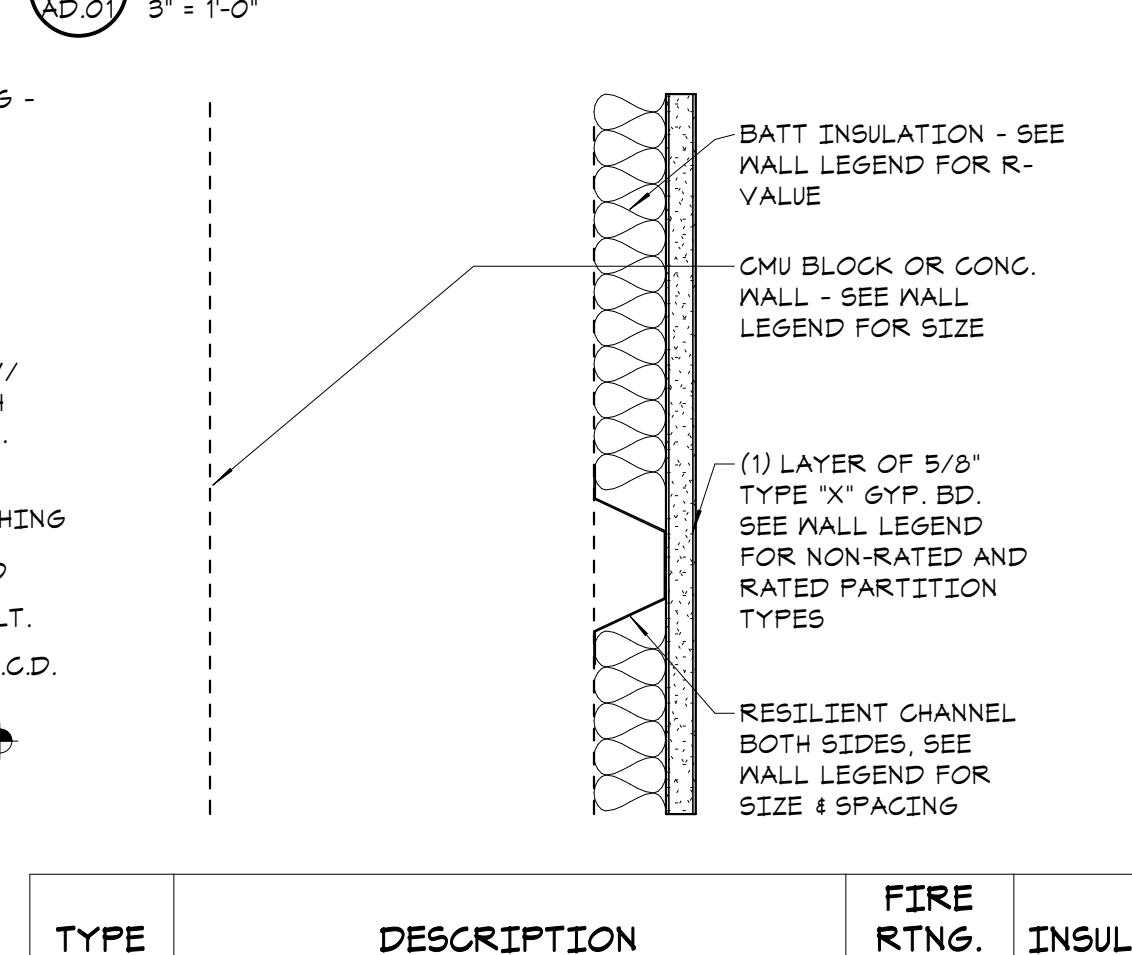
2 INTERIOR WOOD STUD WALL TYPE
AD 01 3' x 1'-0"



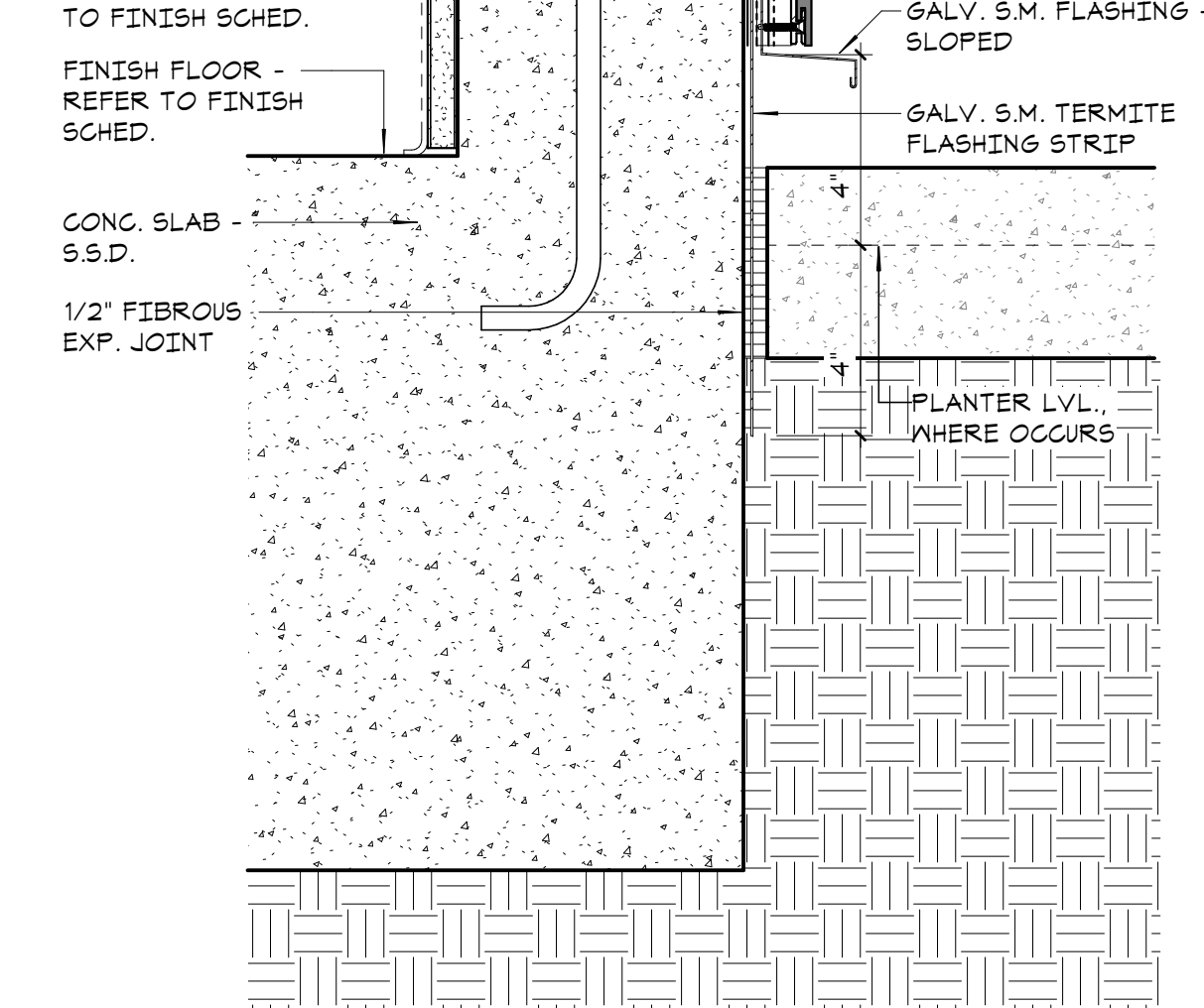
14 CONC. CURB AT HORIZ. CLADDING
AD 01 3' x 1'-0"



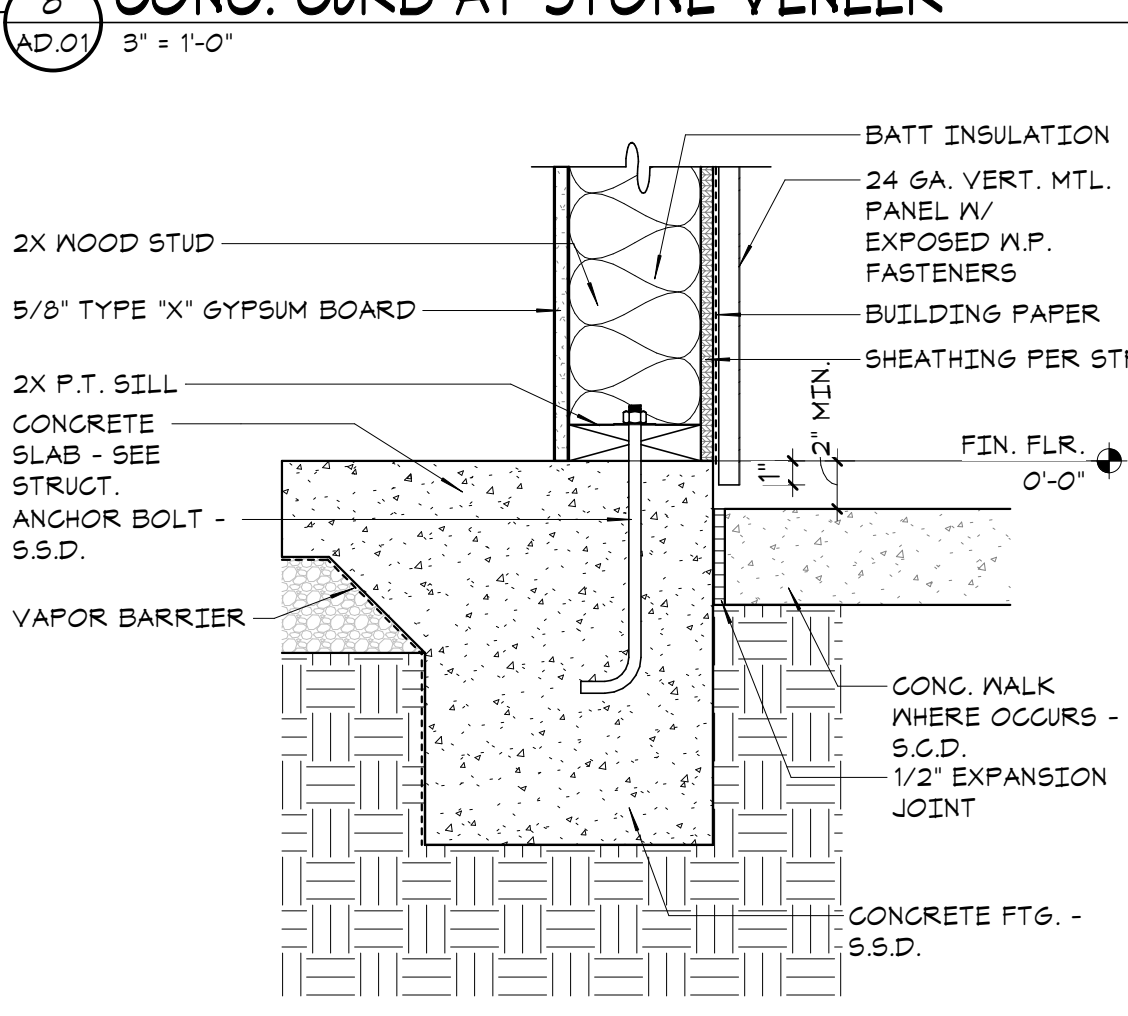
8 CONC. CURB AT STONE VENEER
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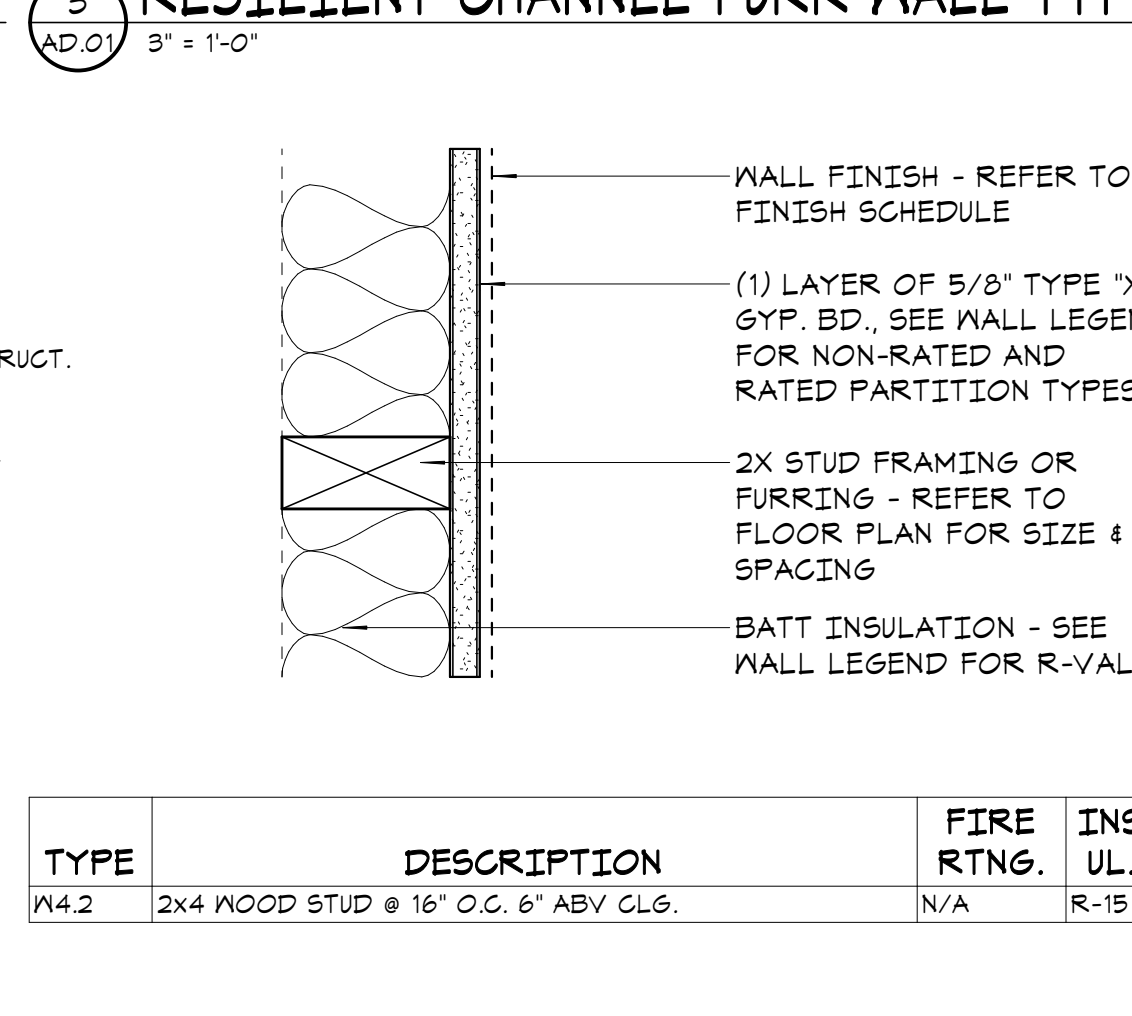
3 RESILIENT CHANNEL FURR WALL TYPE
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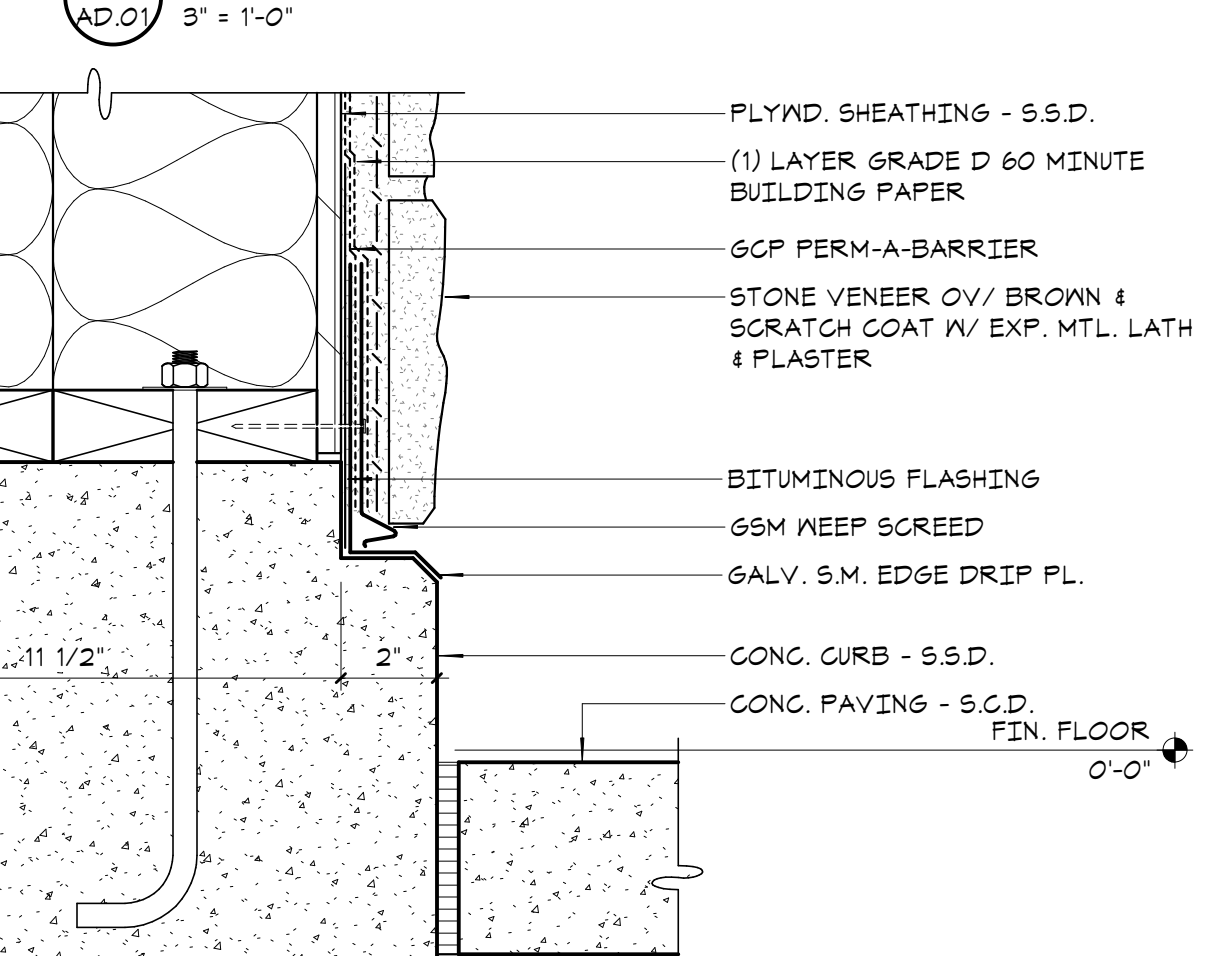
9 CORRUGATED MTL. PNL. @ WALL BASE
AD 01 3' x 1'-0"



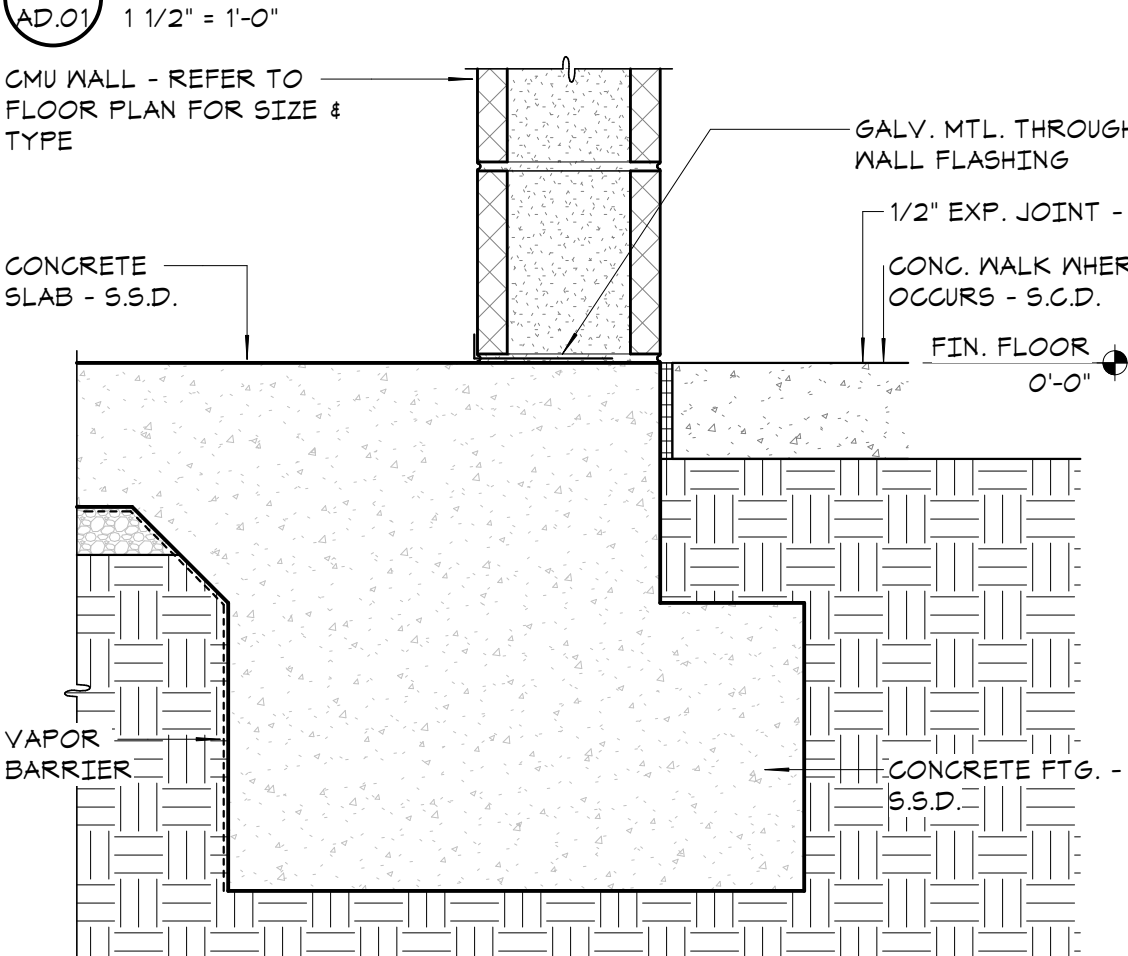
4 INTERIOR WOOD STUD WALL TYPE
AD 01 3' x 1'-0"



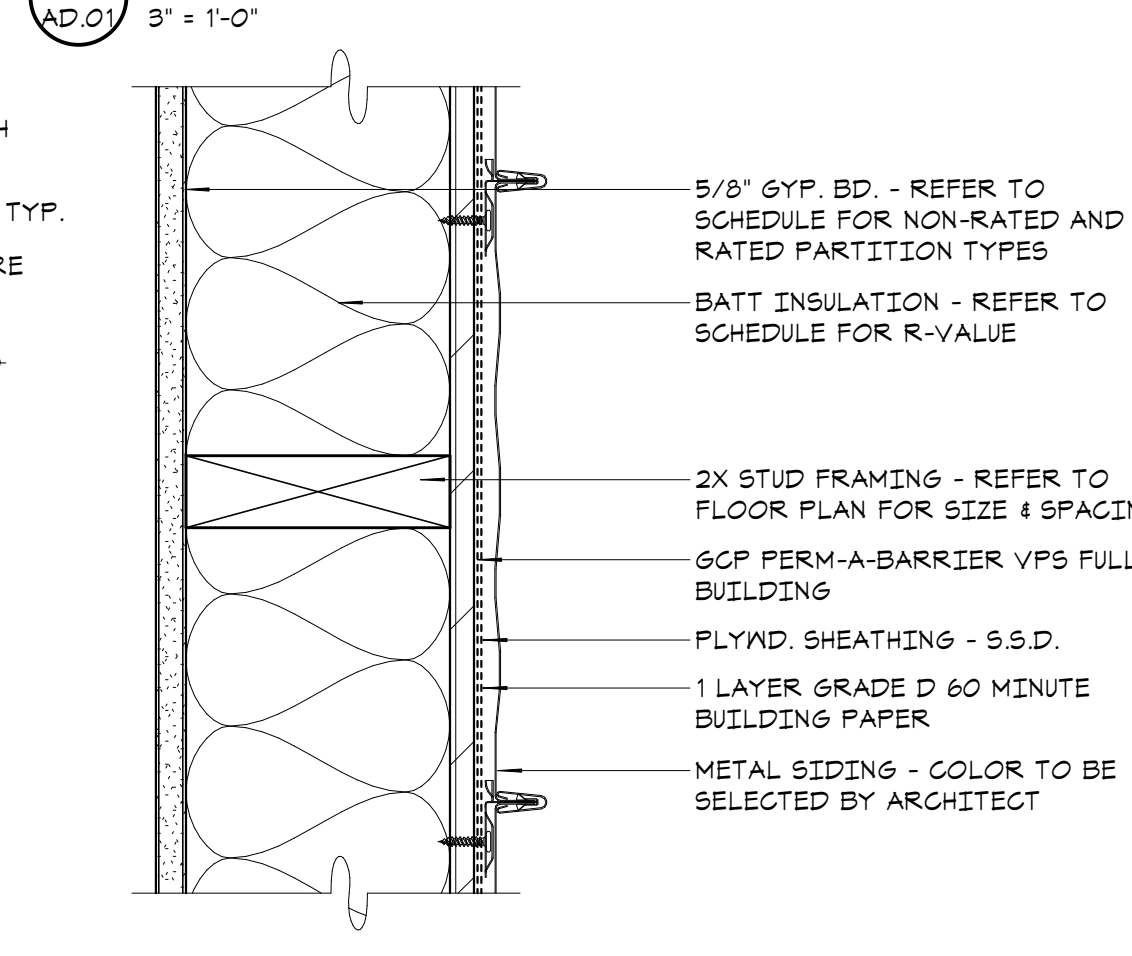
10 CMU @ FOOTING
AD 01 1 1/2' x 1'-0"



20 CONC. CURB AT STONE VENEER AT ENTRY
AD 01 3' x 1'-0"



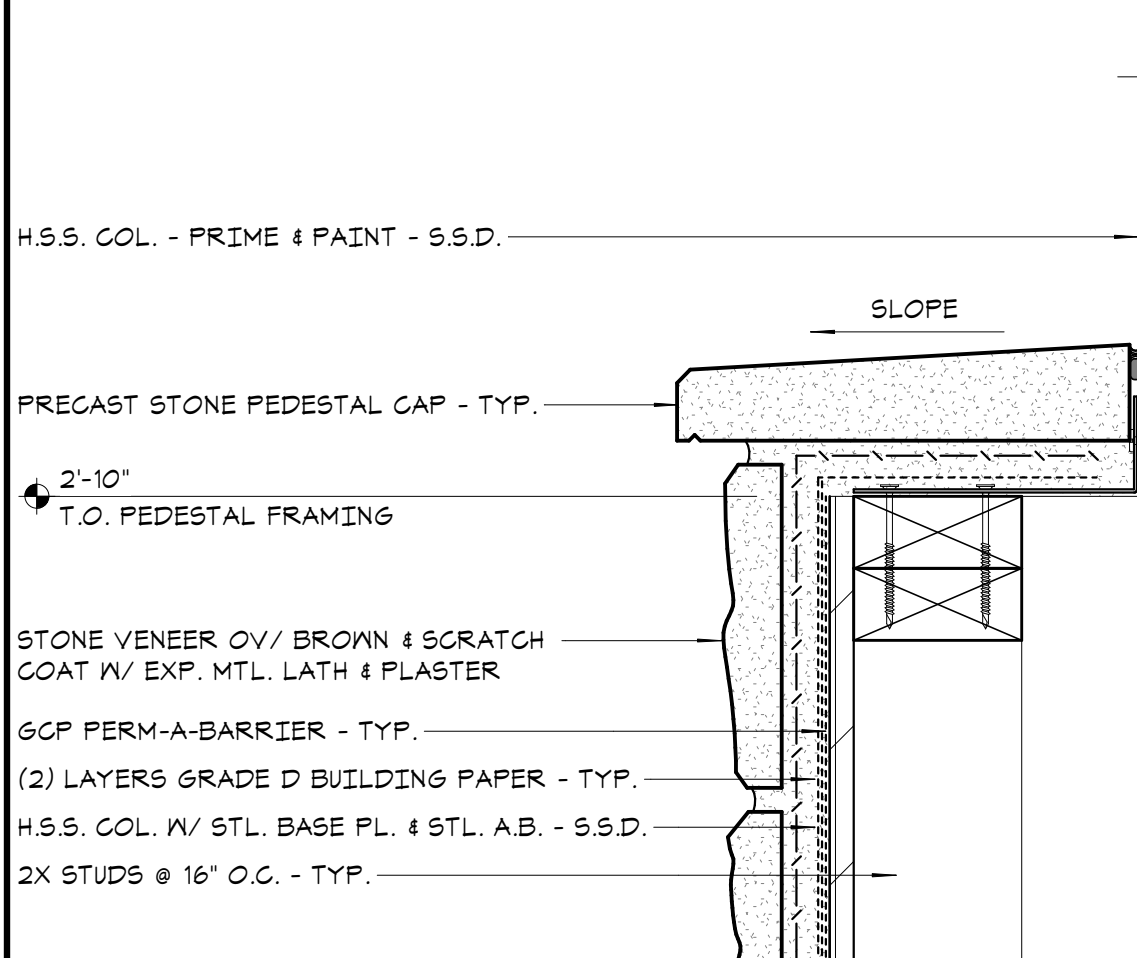
5 EXT. WALL AT METAL PANEL SIDING
AD 01 3' x 1'-0"



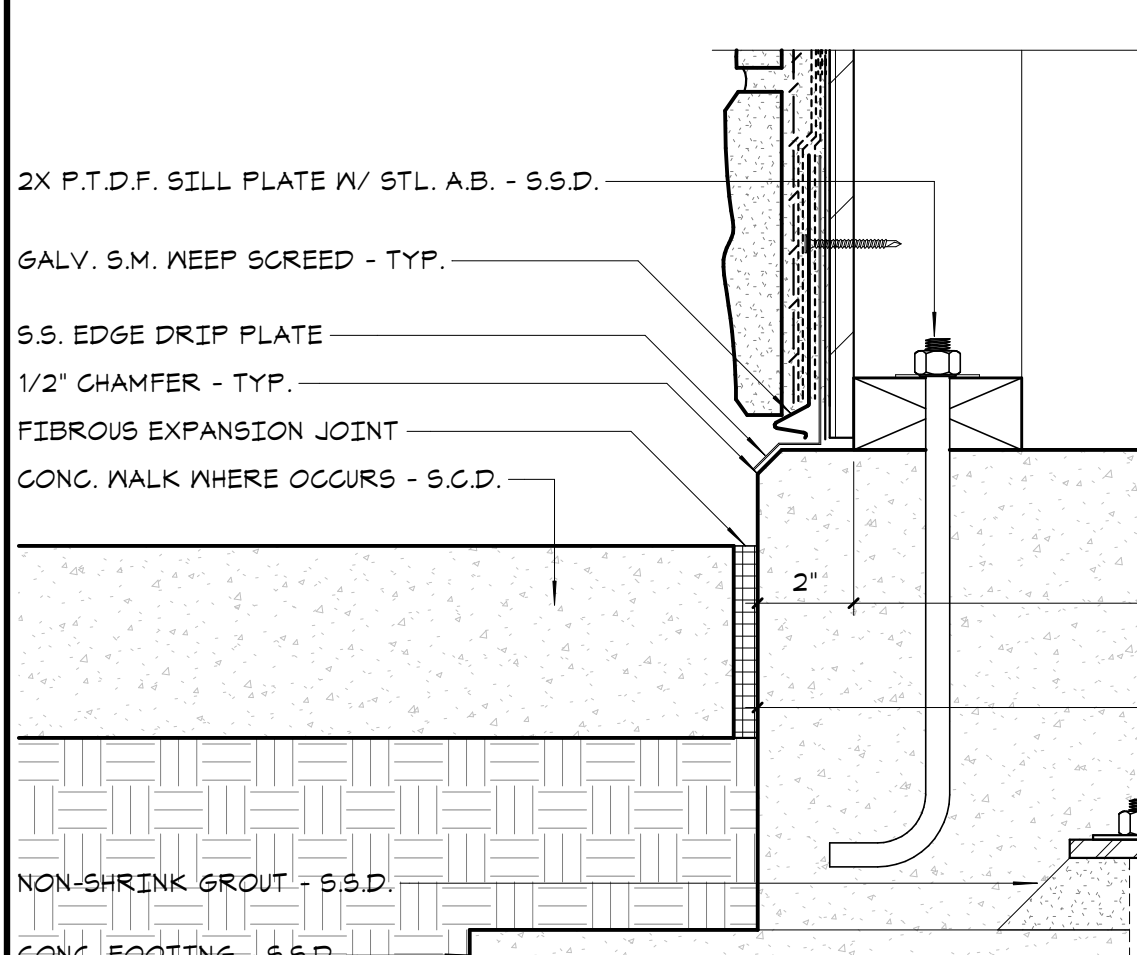
19 PRECAST STONE VENEER PEDESTAL AT METAL PANEL
AD 01 3' x 1'-0"



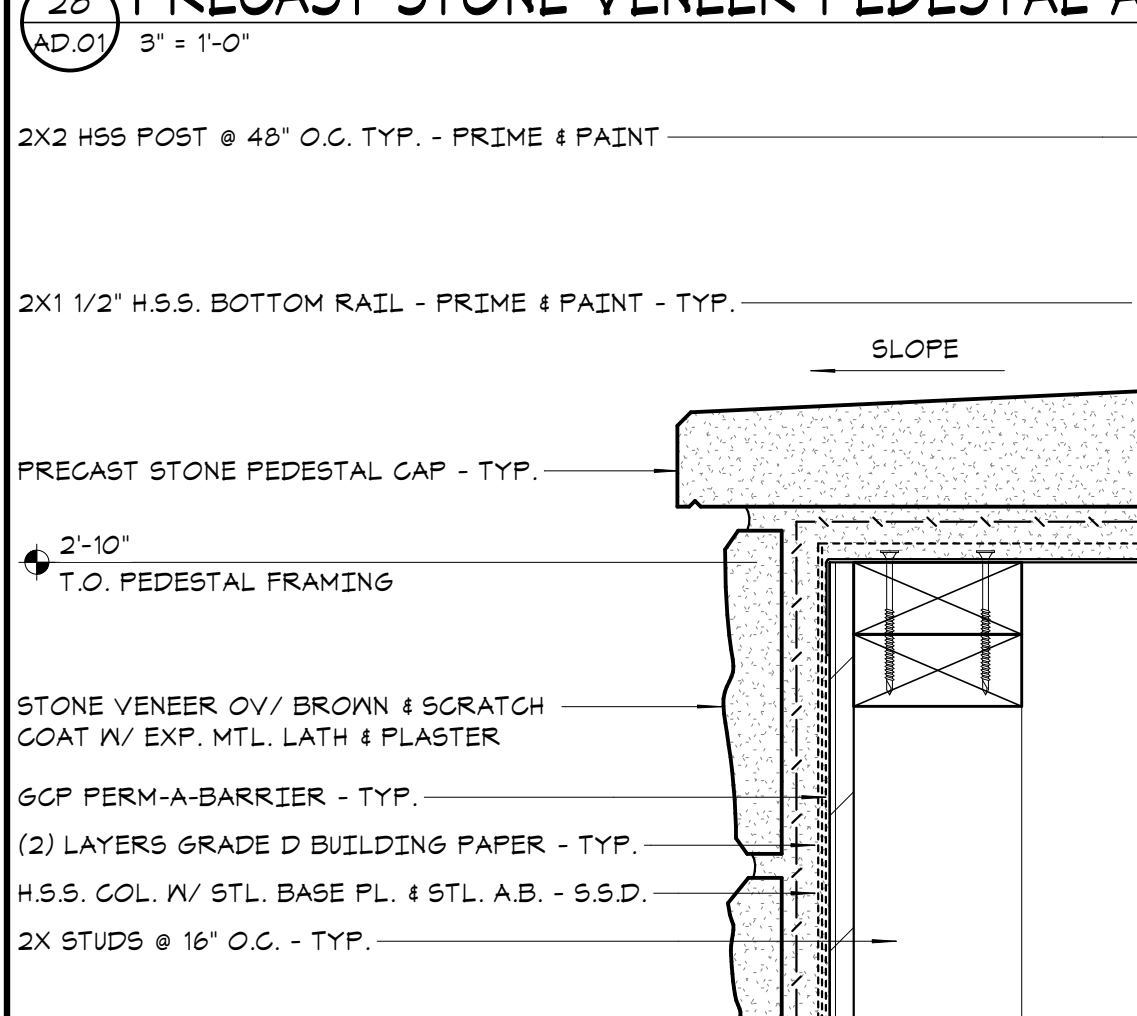
21 CONC. CURB AT METAL PANEL SIDING AT COMMUNITY ROOM
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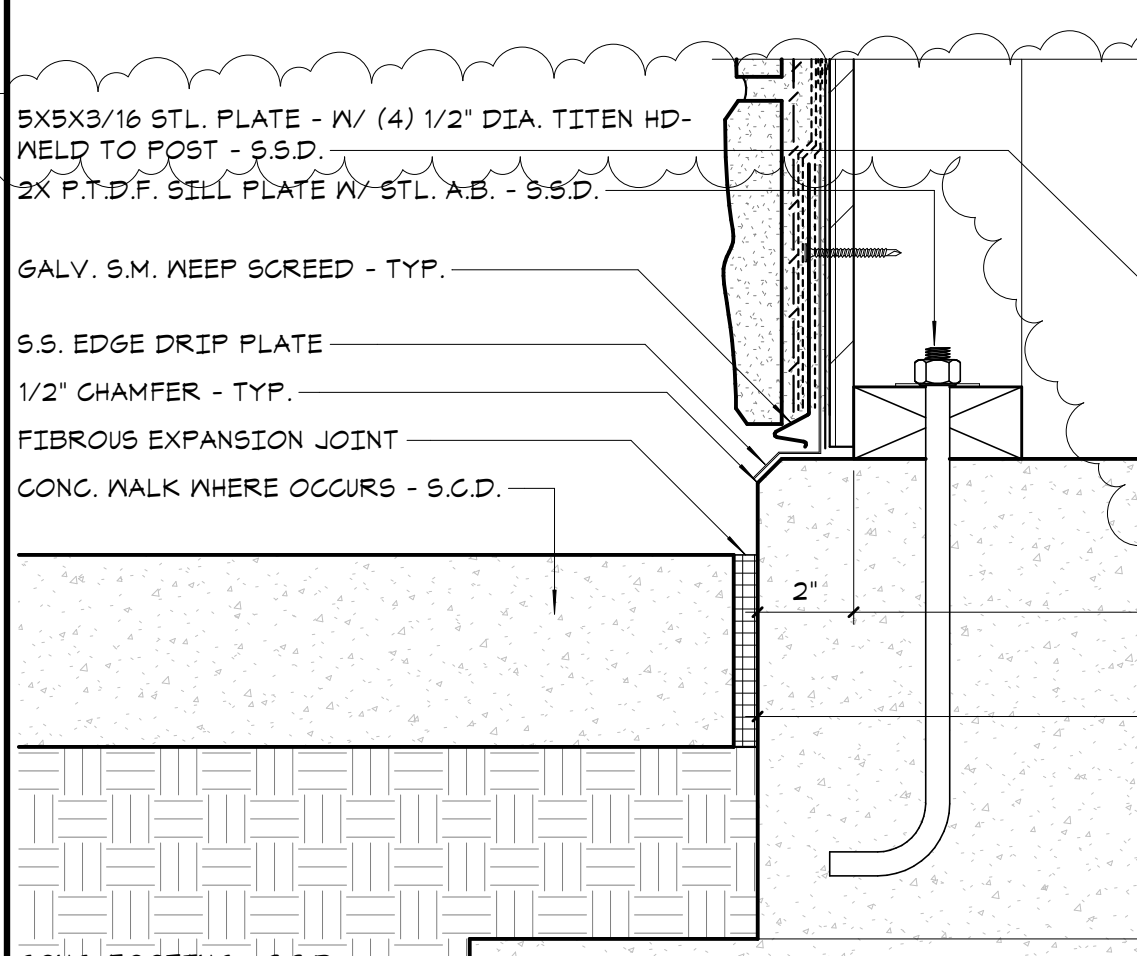
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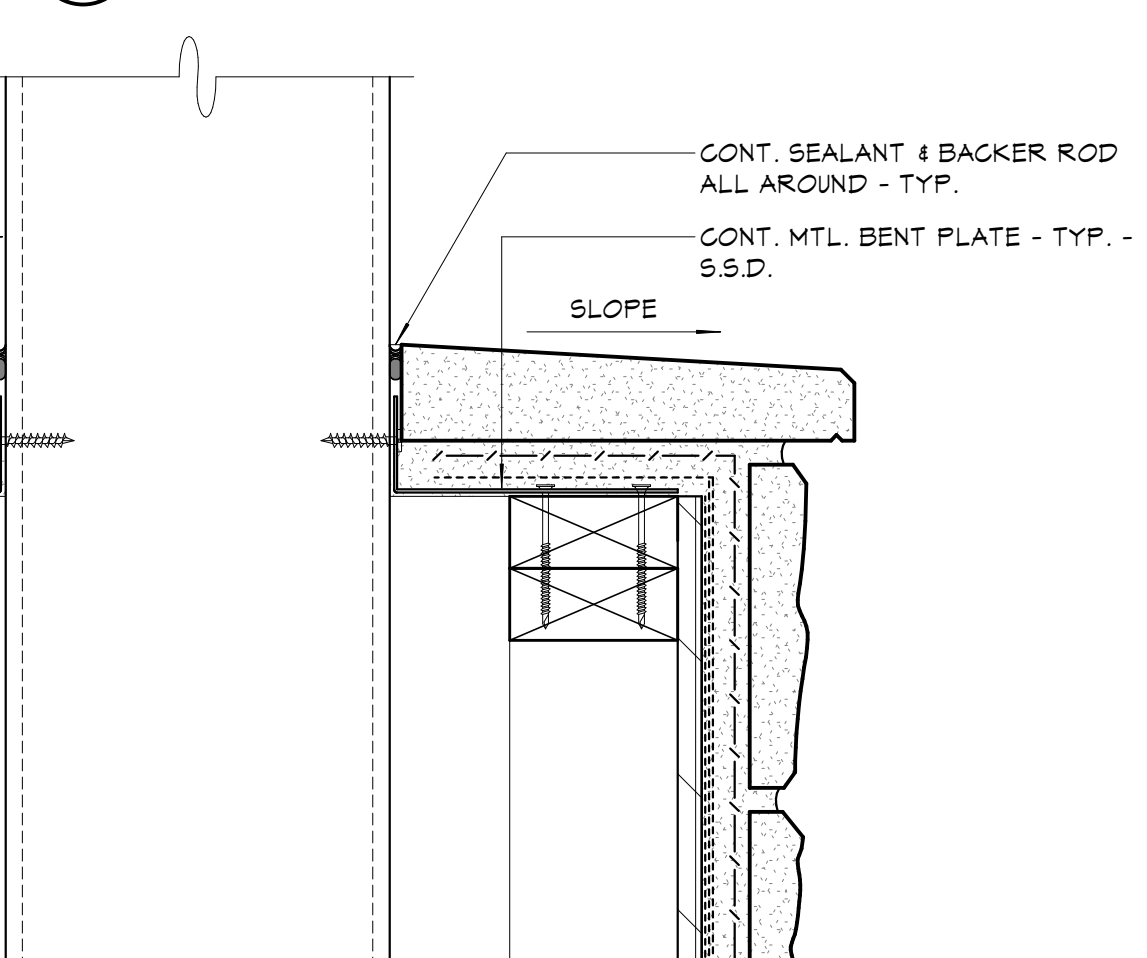
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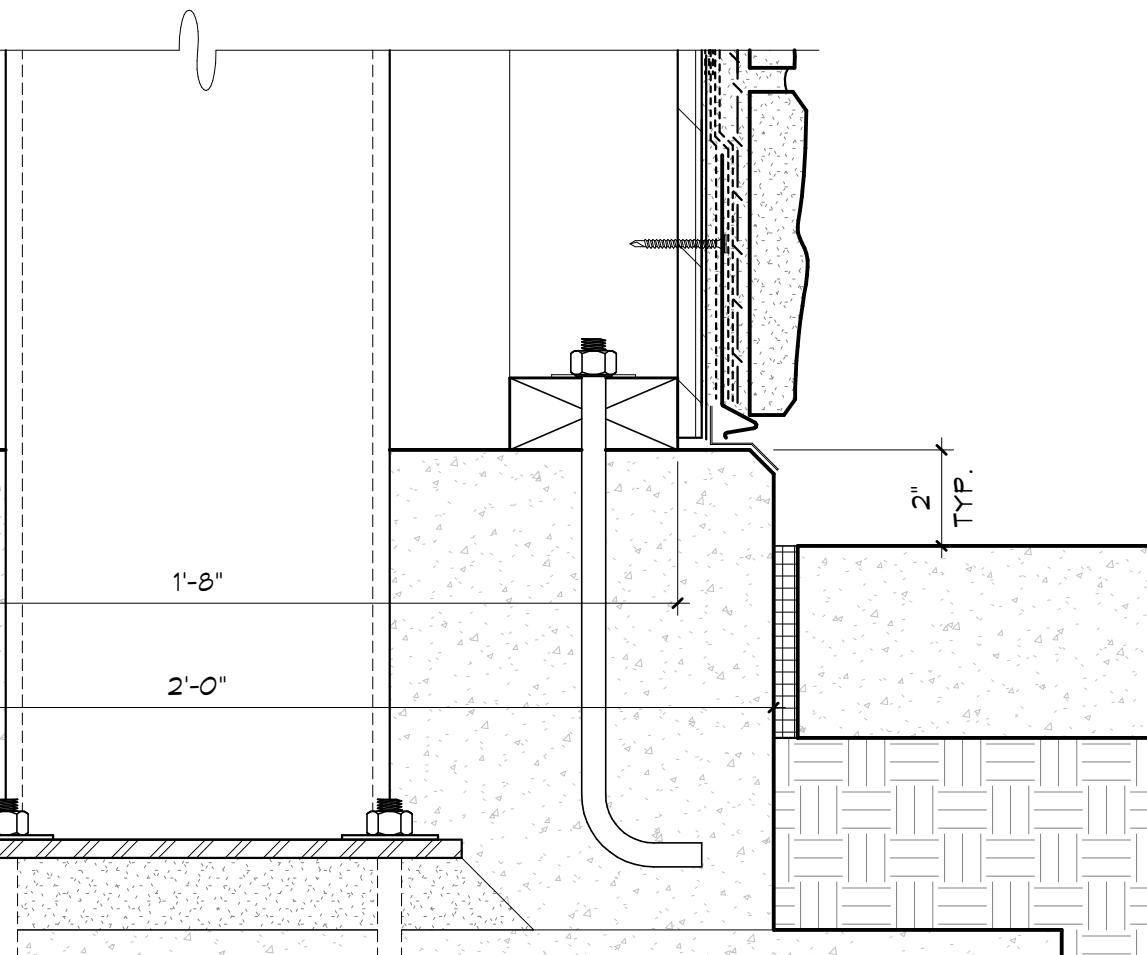
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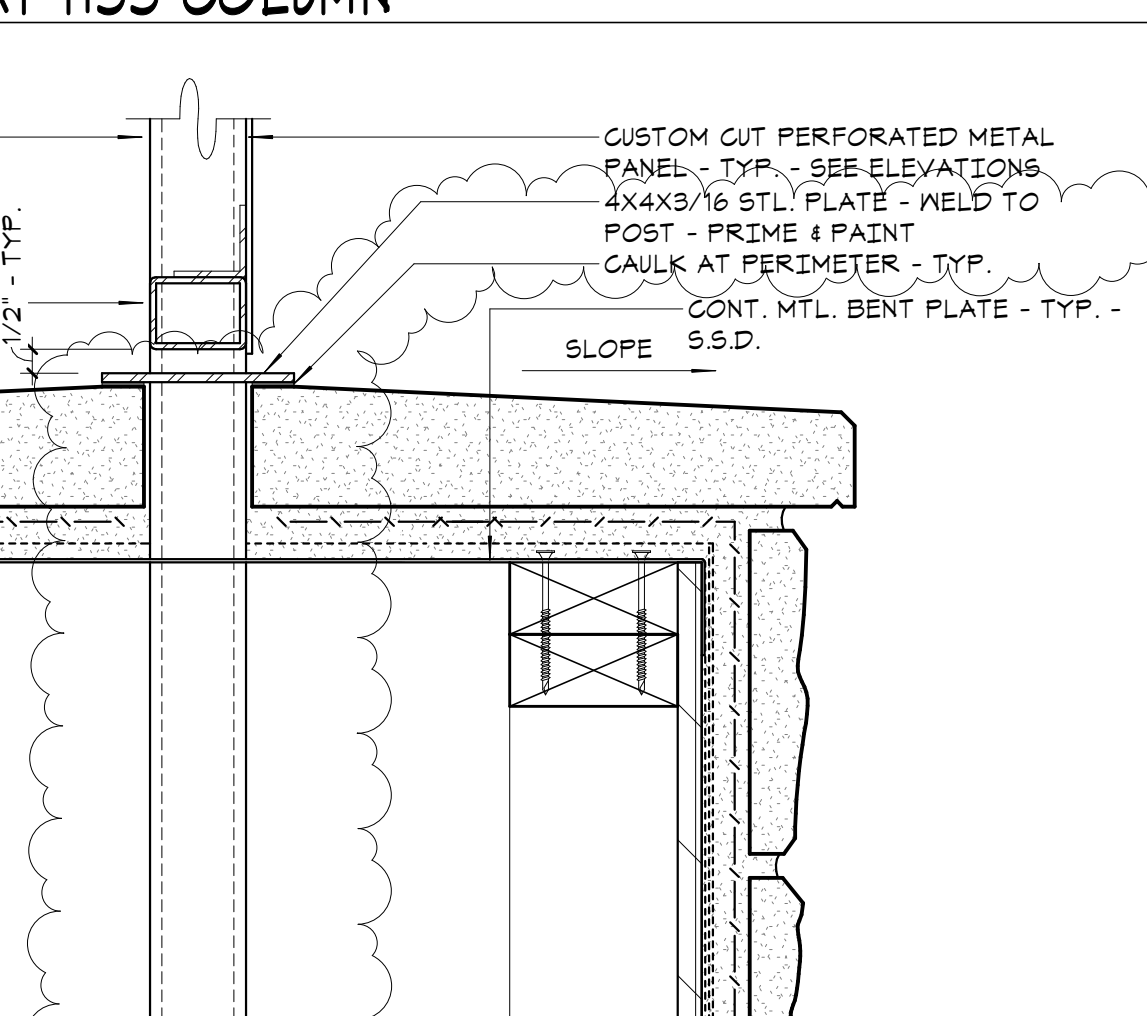
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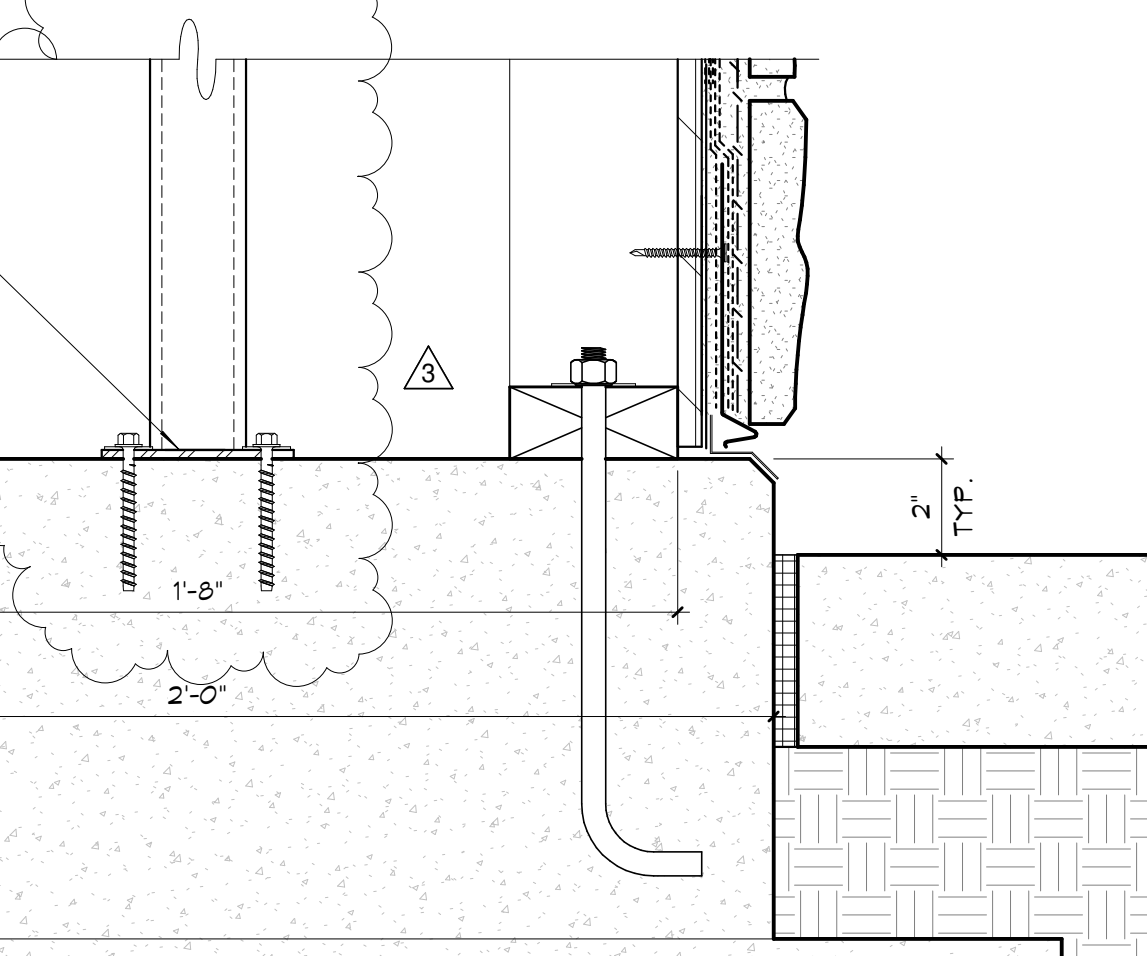
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AD 01 3' x 1'-0"



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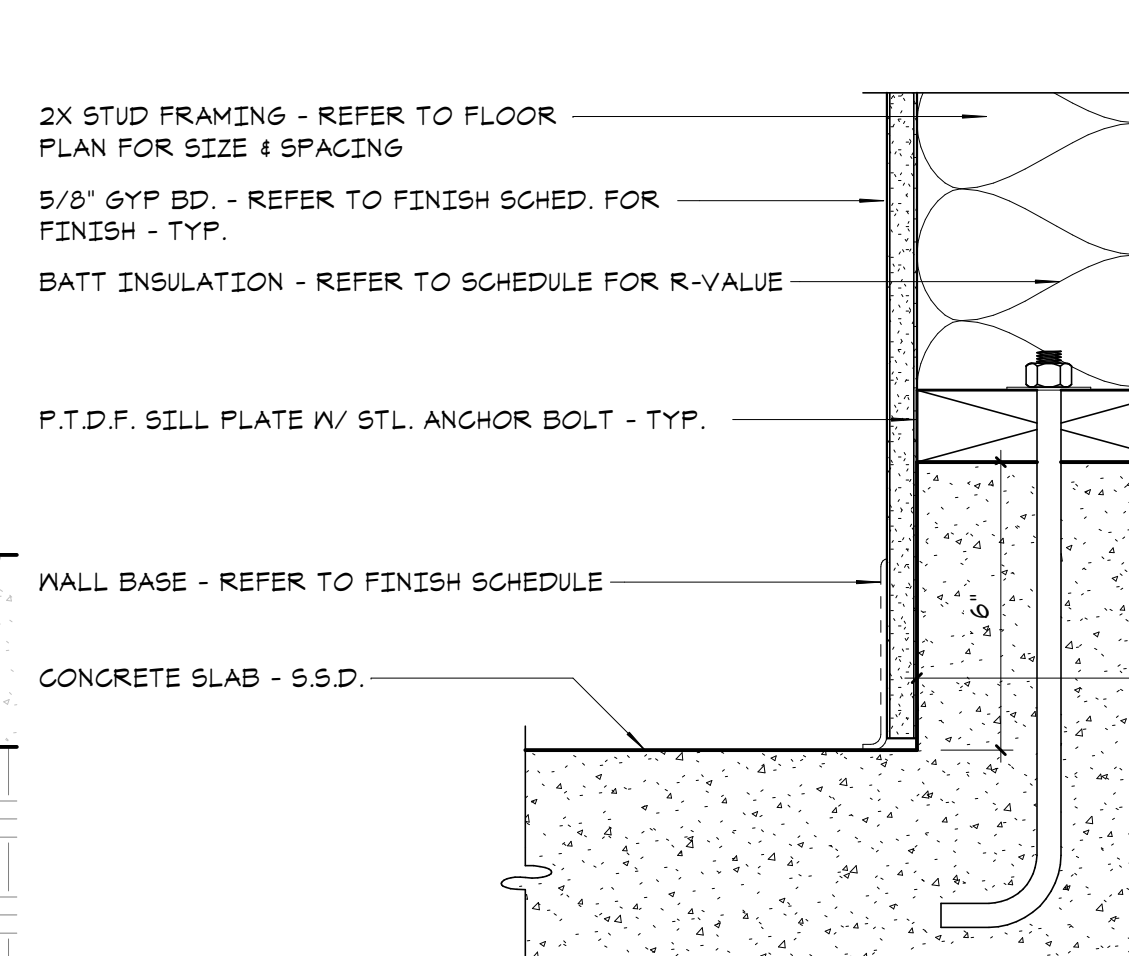
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AD 01 3' x 1'-0"



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AD 01 3' x 1'-0"



26 PRECAST STONE VENEER PEDESTAL AT HSS COLUMN
AD 01 3' x 1'-0"

19 PRECAST STONE VENEER PEDESTAL AT METAL PANEL
AD 01 3' x 1'-0"



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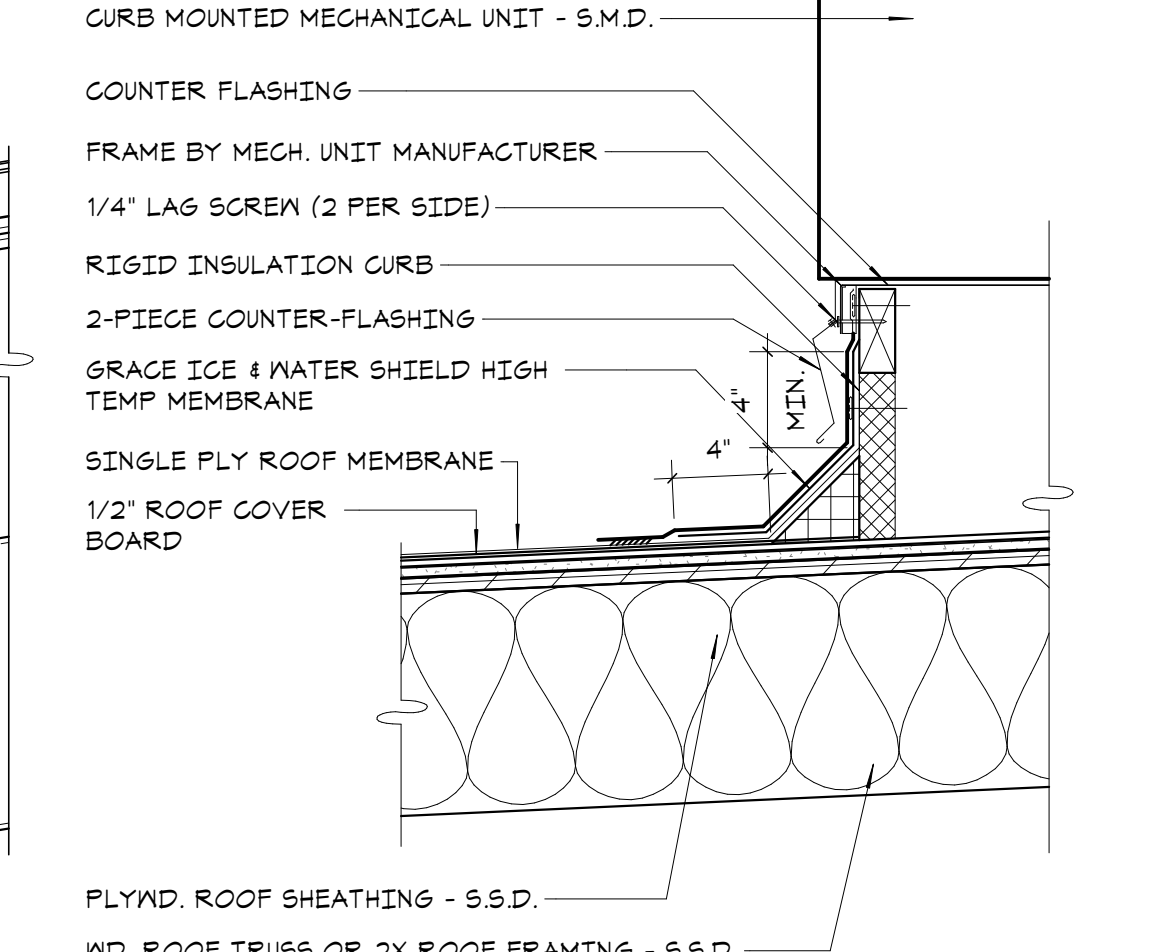
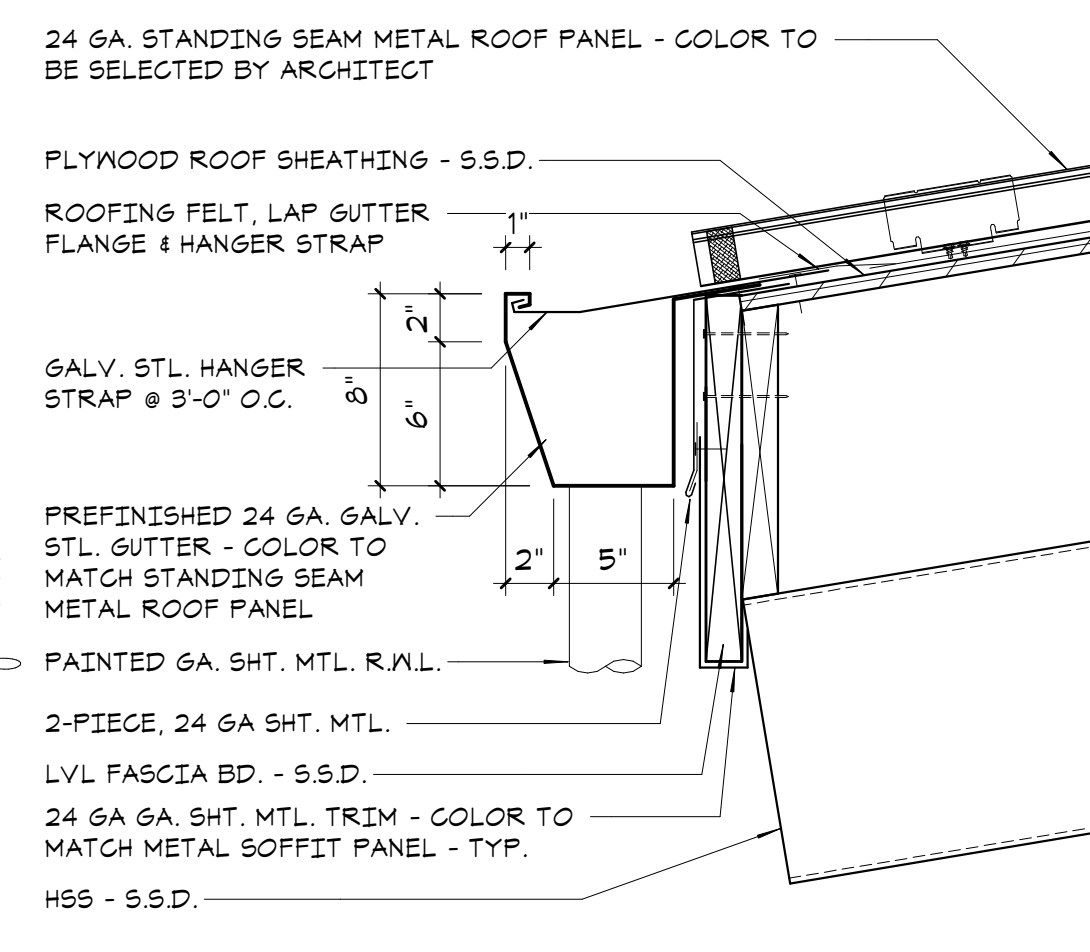
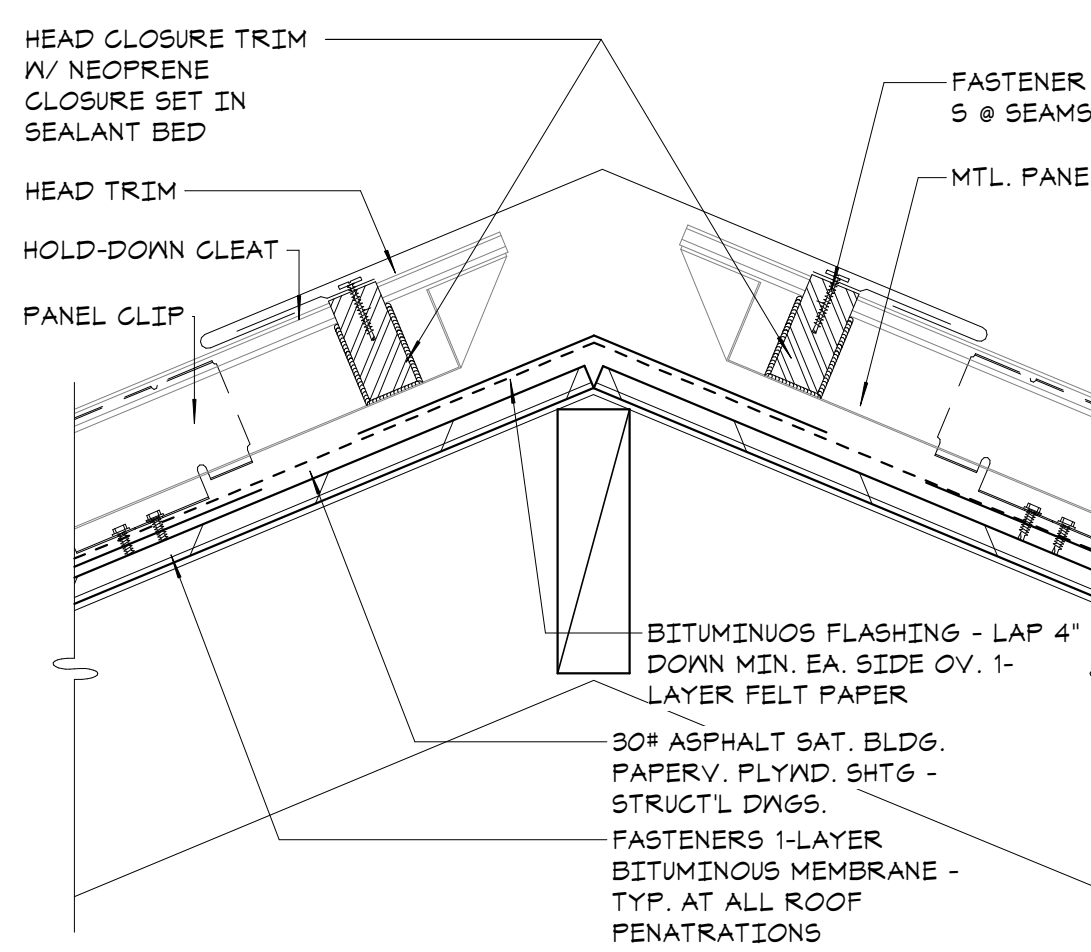
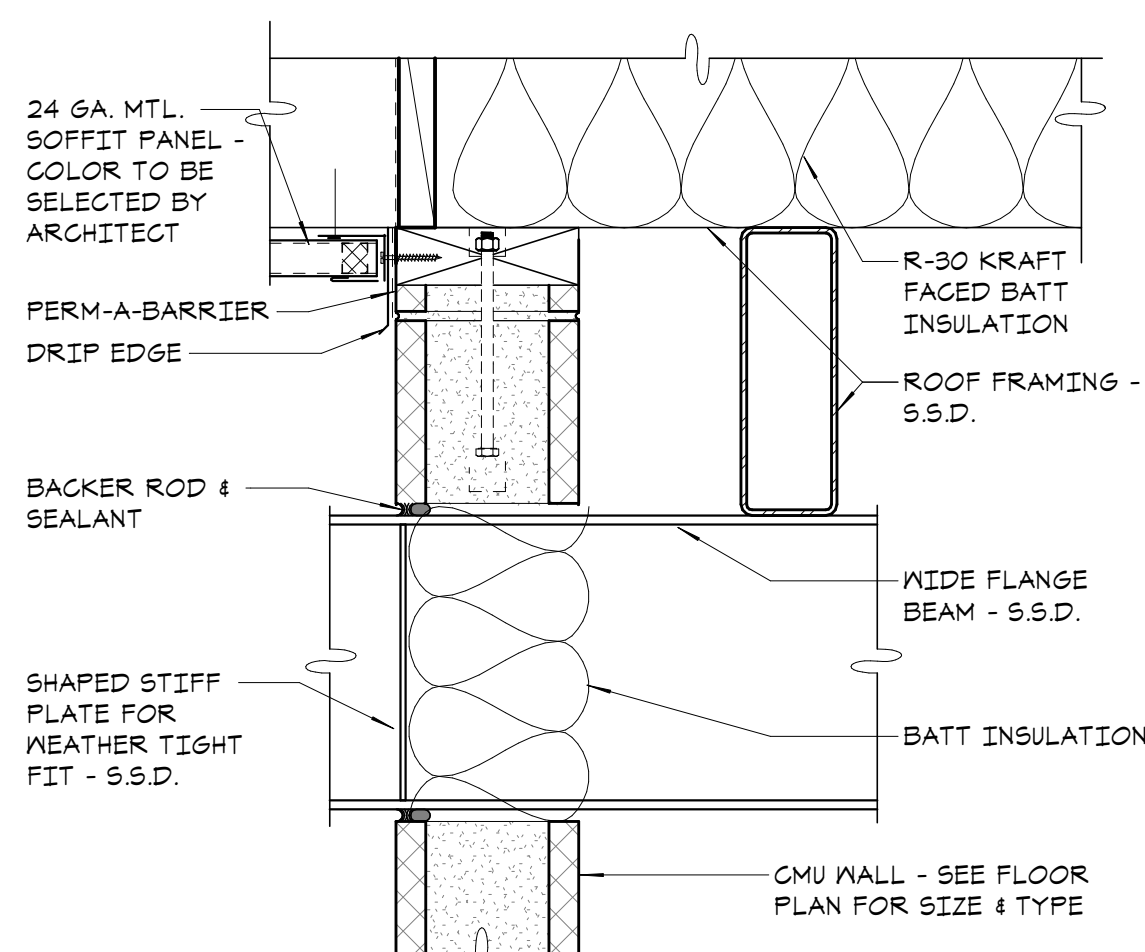
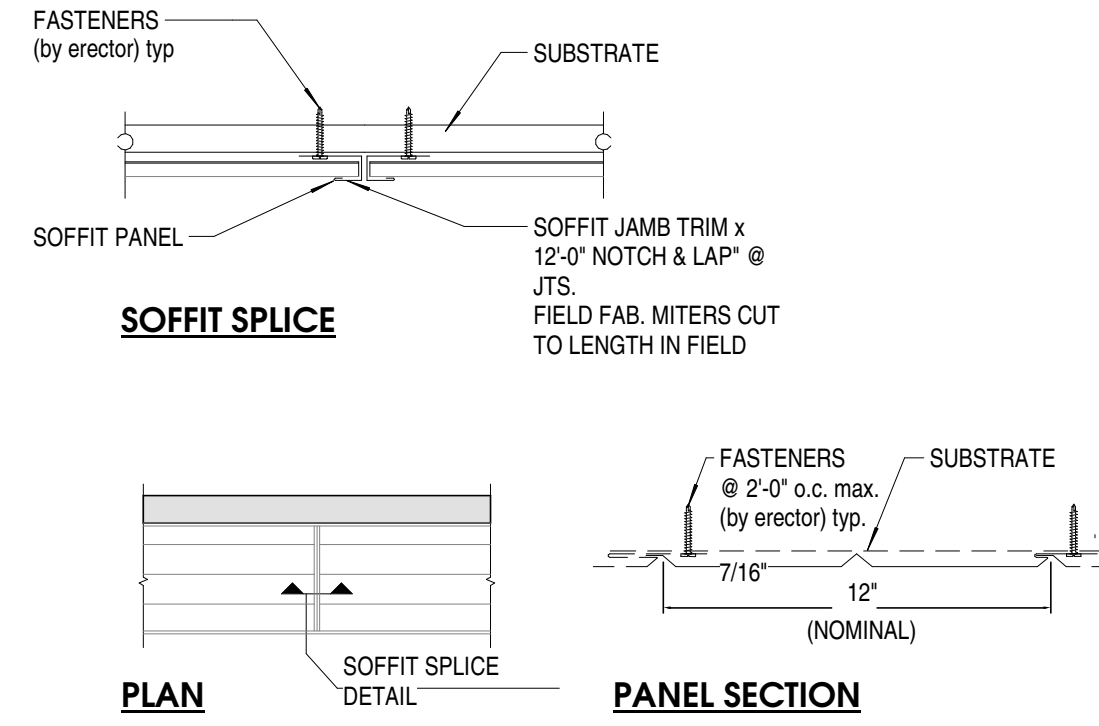
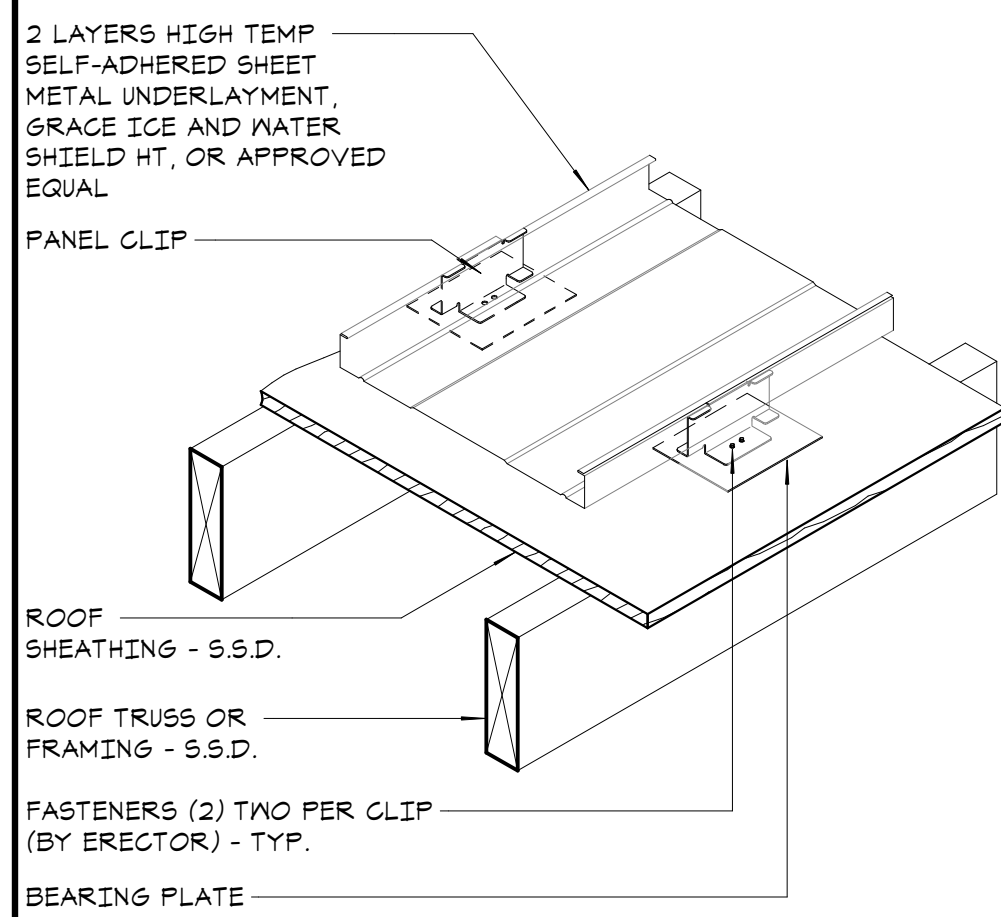
Project No.: 510-08-23
Drawn By: MG
Checked By: PA

No. Description Date By
1 PC #2 5/19/2026
3 ADDENDA #2 7/10/2026 PA

ADDENDA #2
7/10/2026

WALL DETAILS

AD.01



26 METAL SPAN ROOF

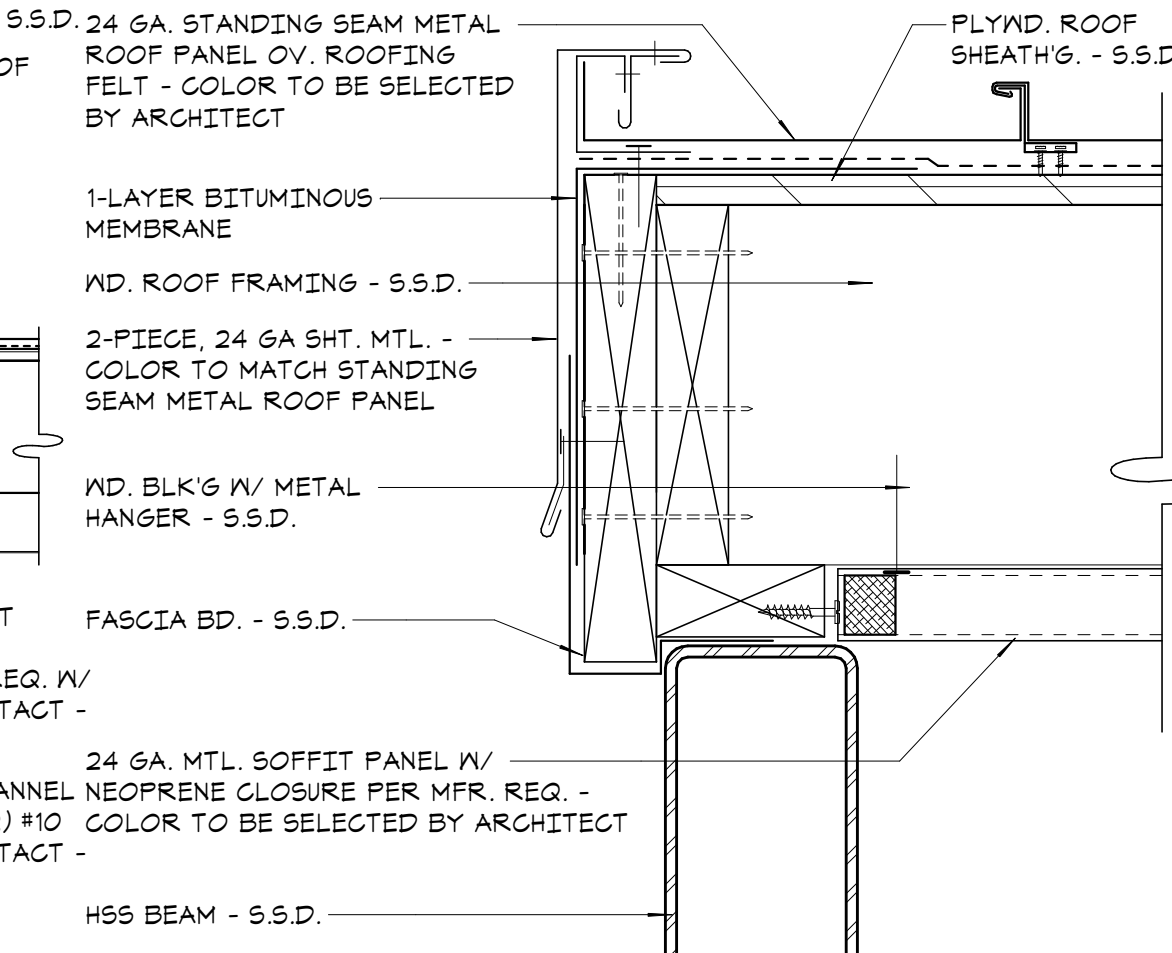
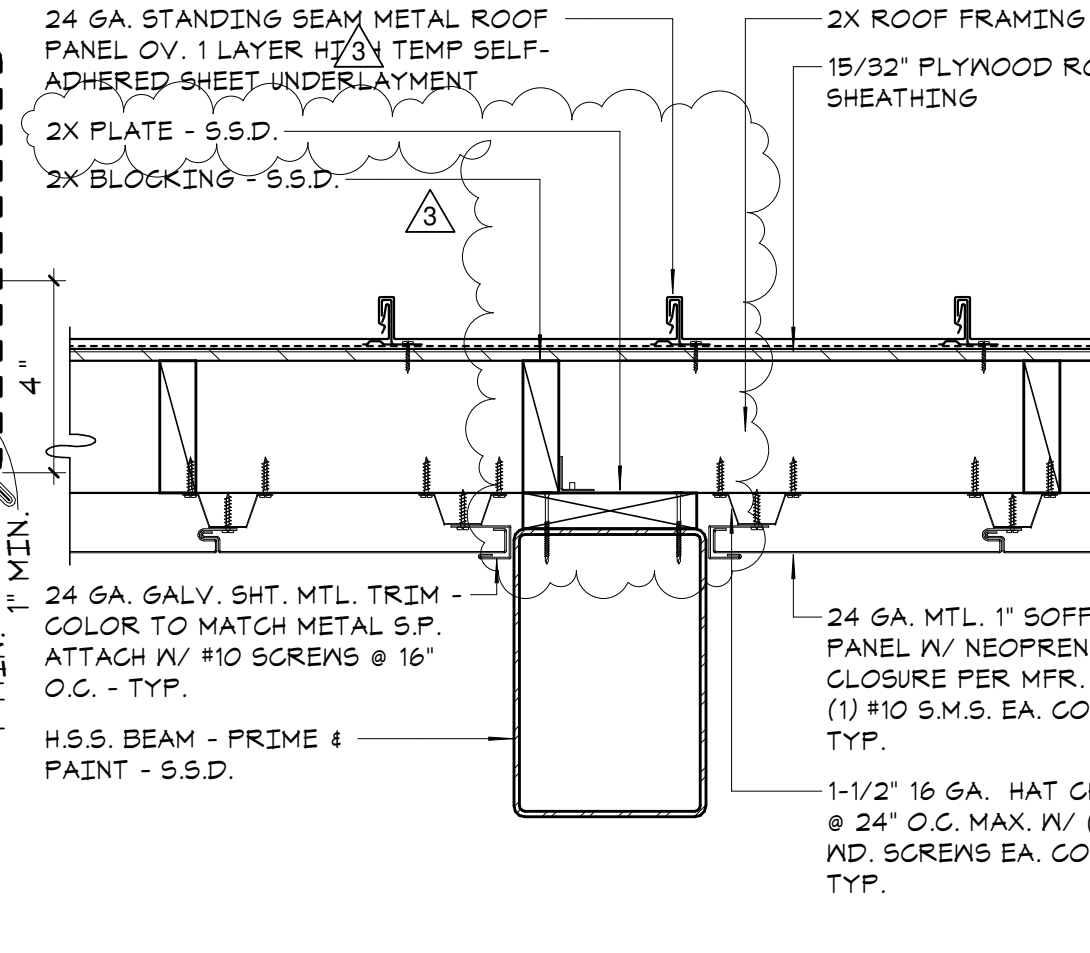
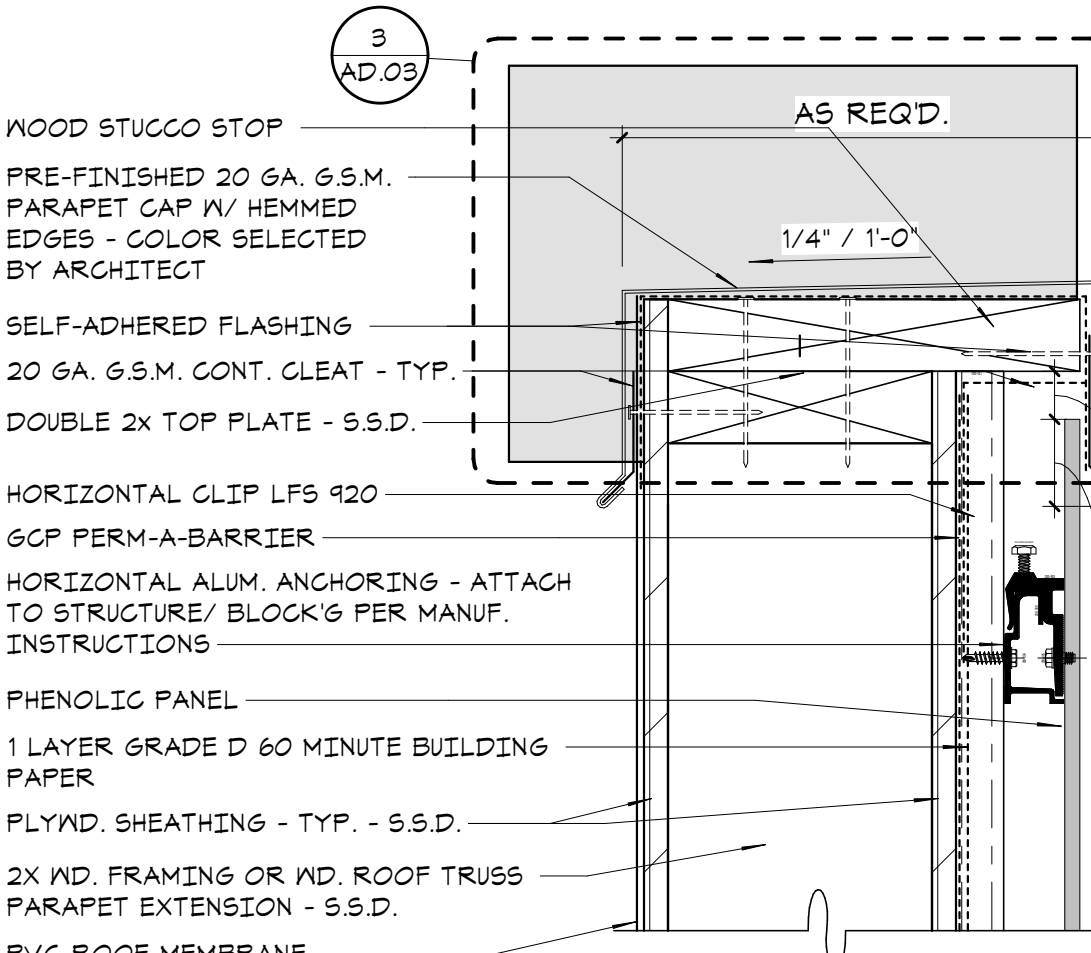
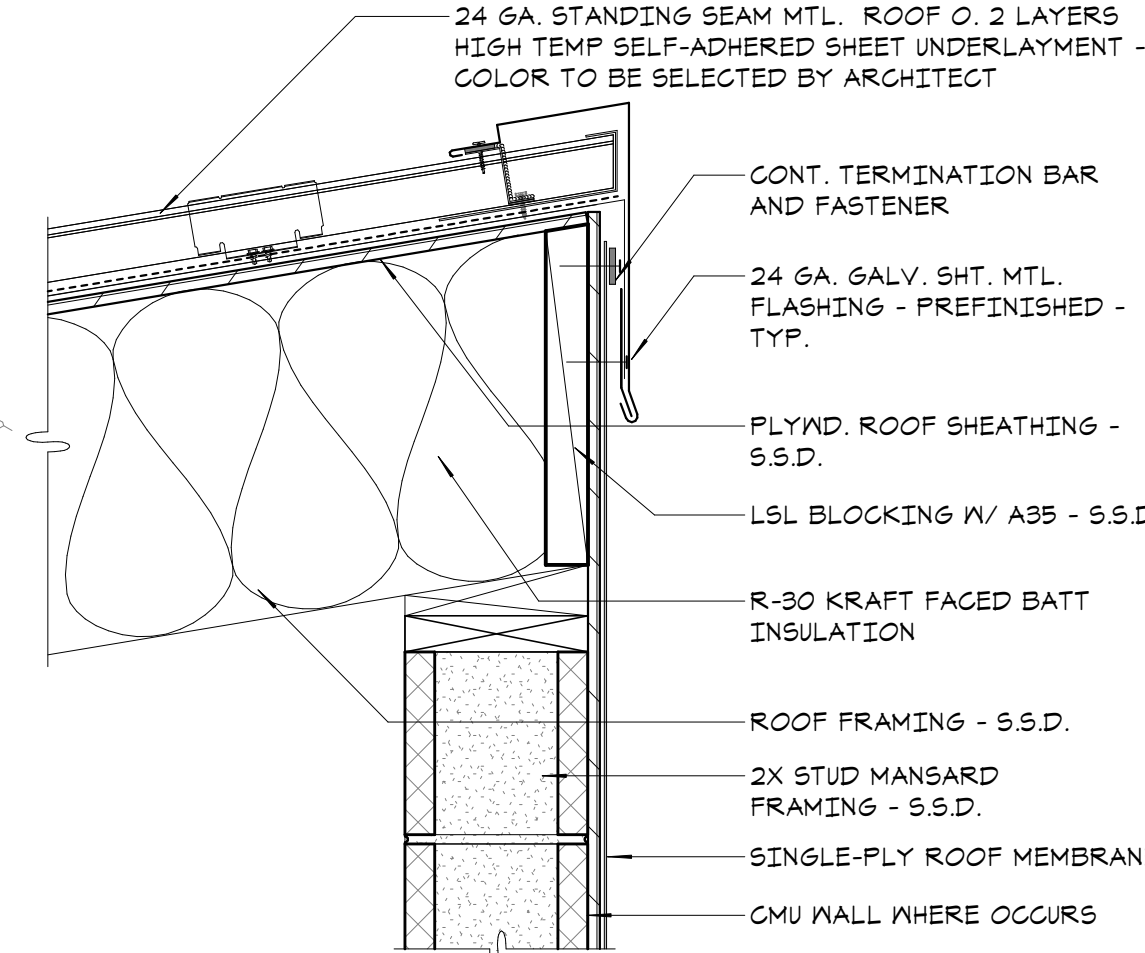
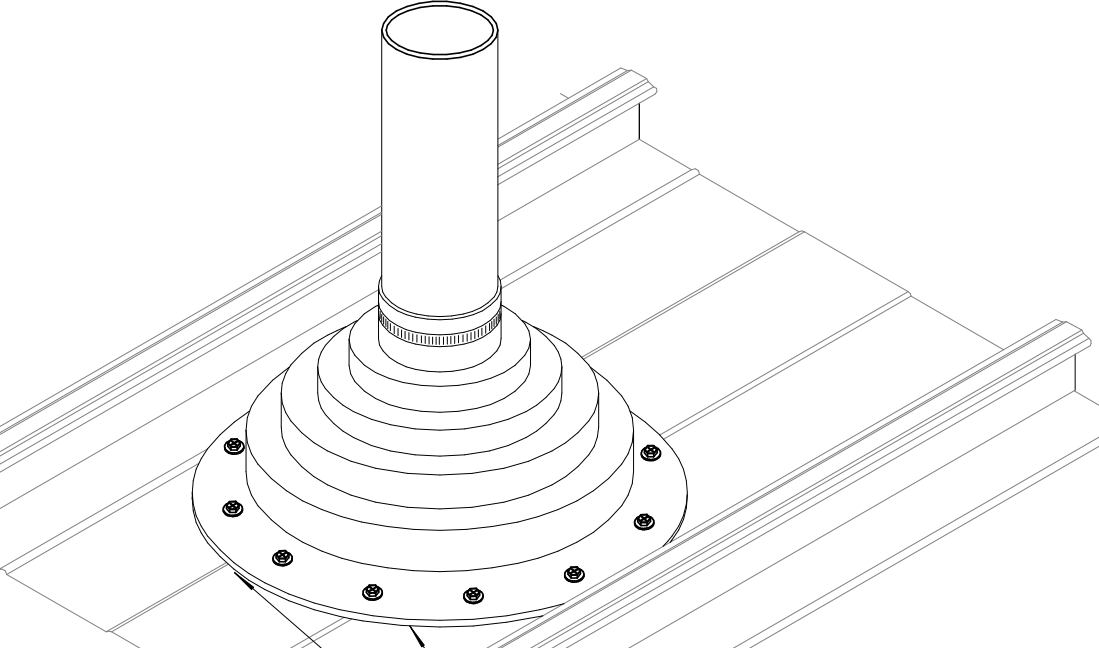
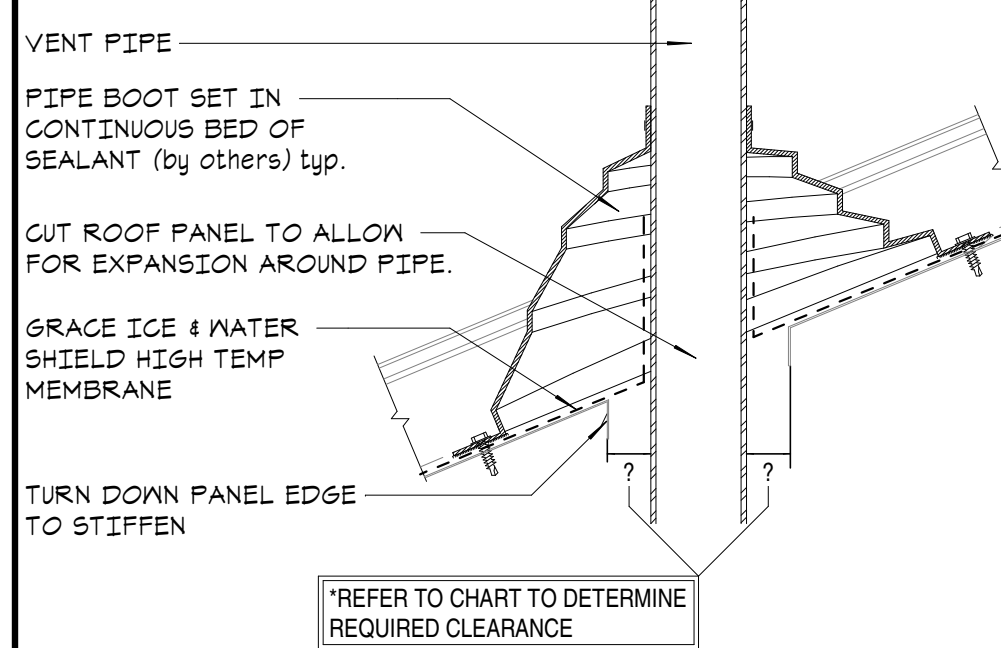
21 METAL SOFFIT PANEL / SPLICE

16 BEAM PENETRATION @ CMU WALL EAVE

11 ROOF RIDGE

6 ENTRY ROOF FASCIA AT HSS

1 CURB AT MECHANICAL UNIT



27 ROOF PENETRATION BOOT AT STANDING SEAM METAL ROOF

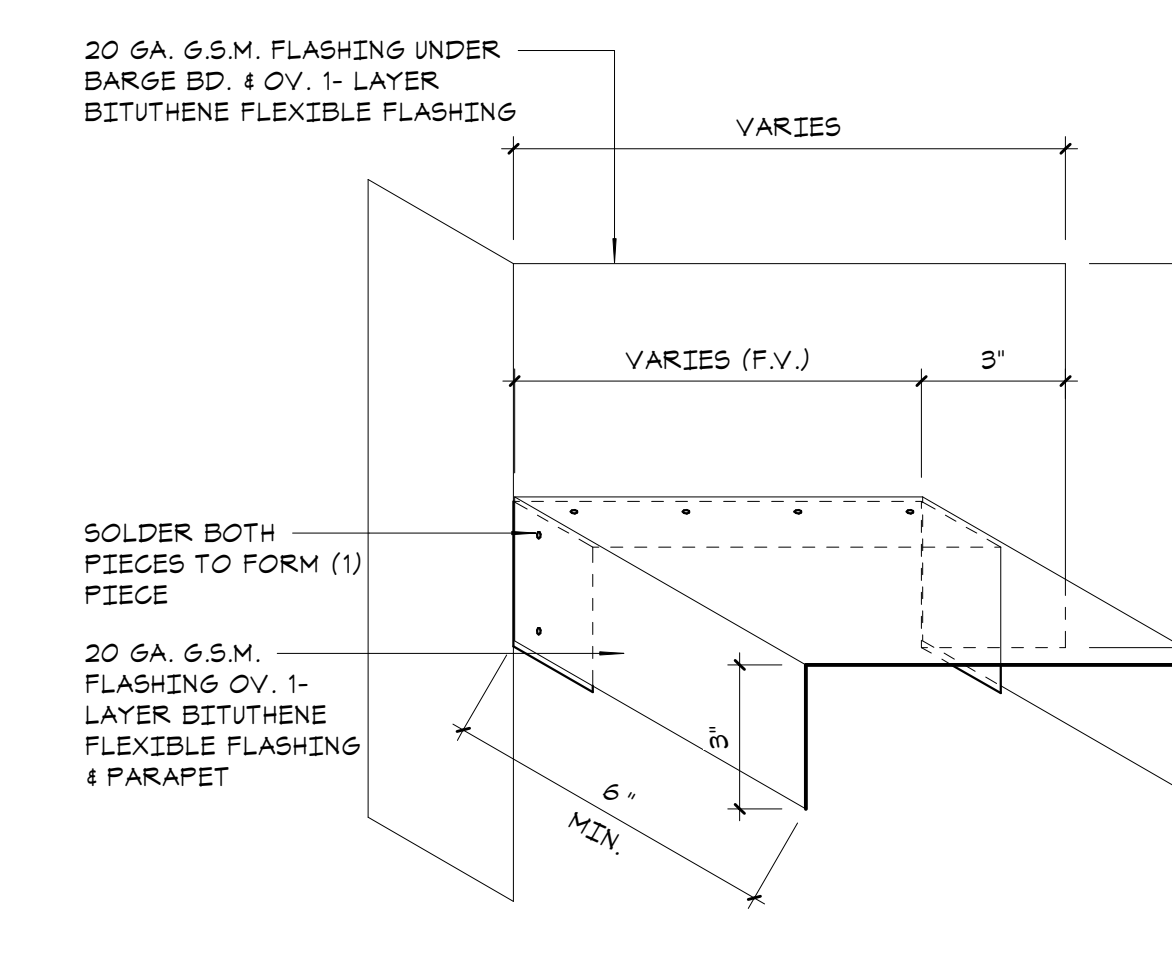
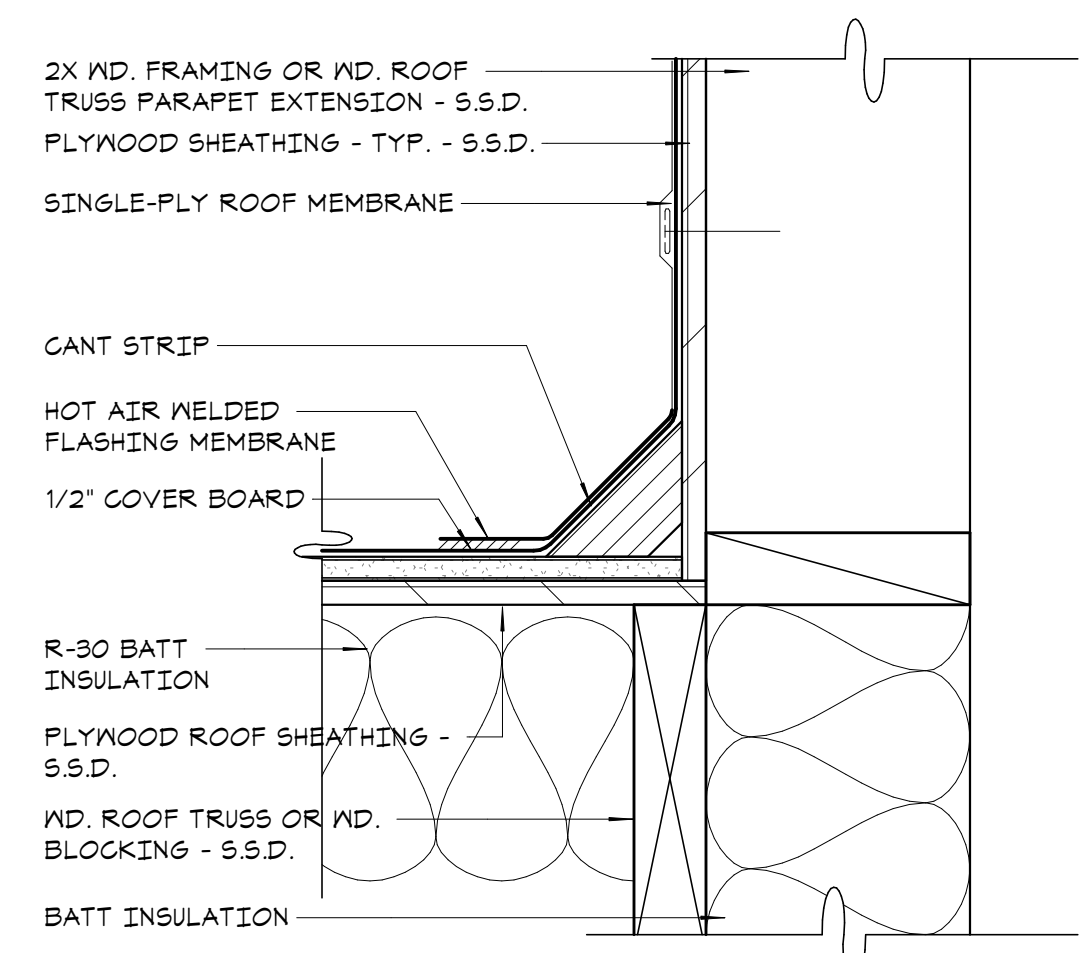
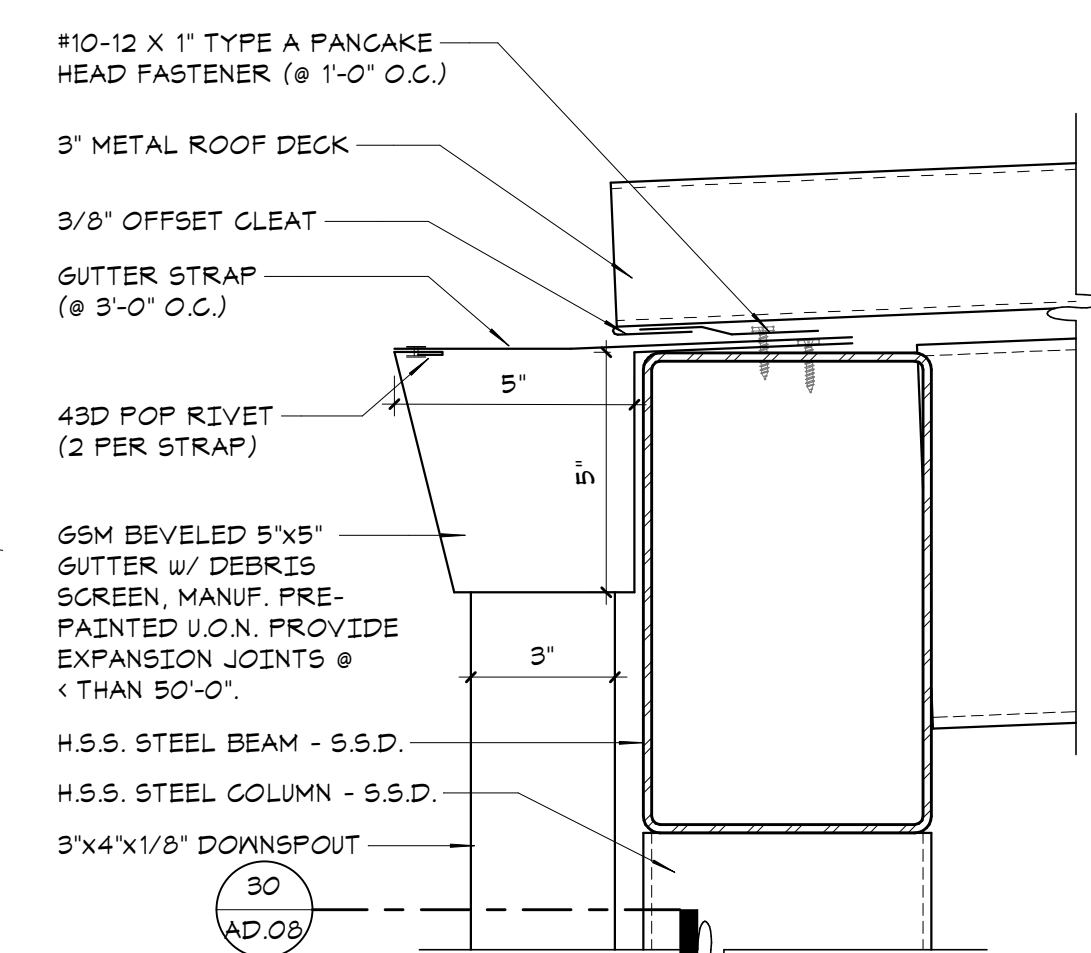
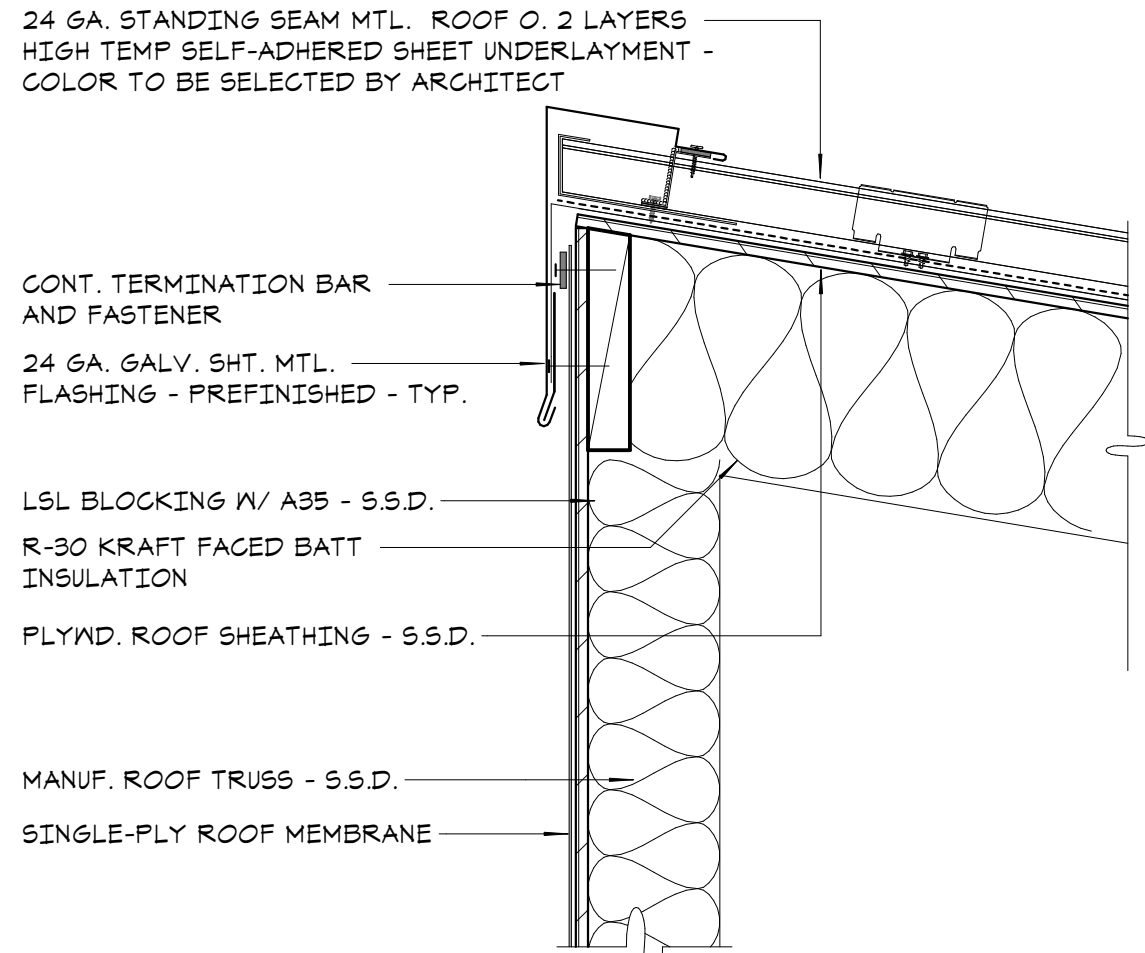
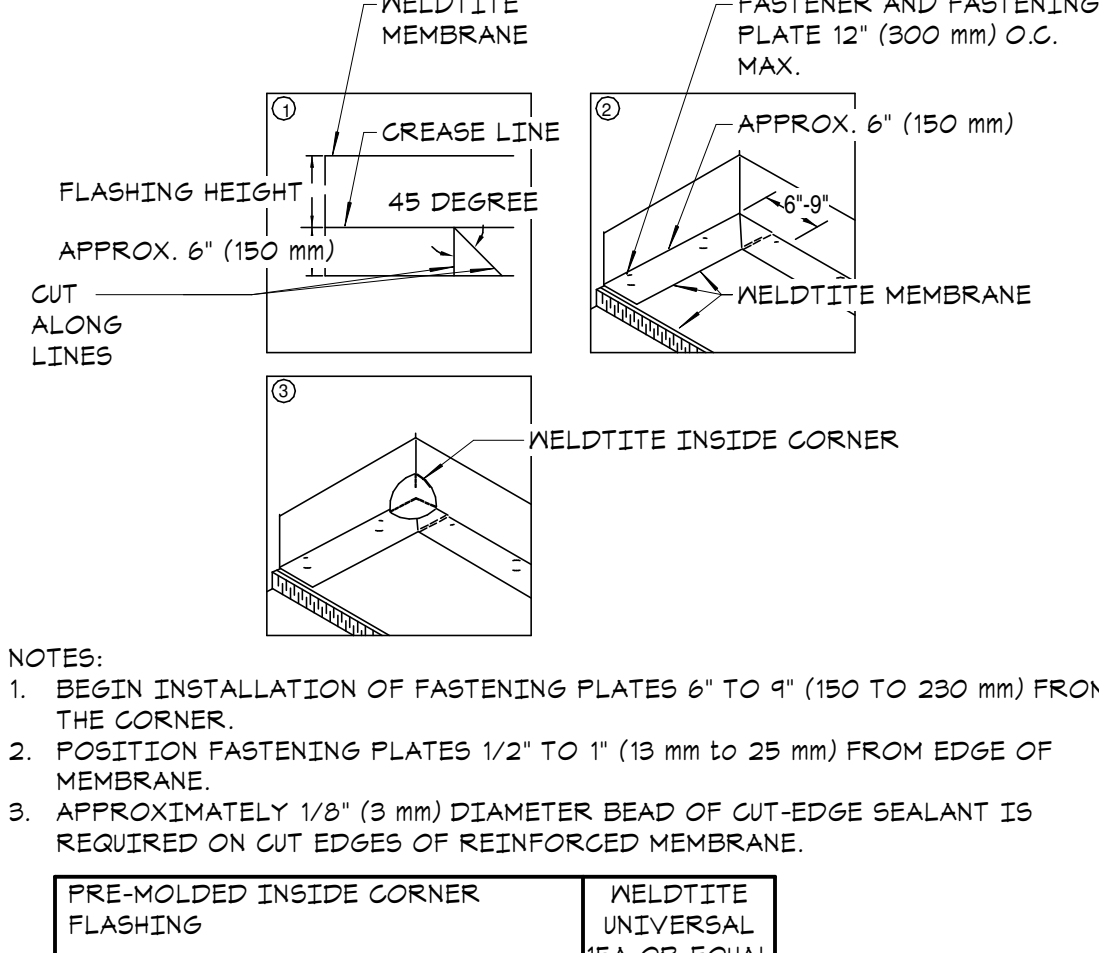
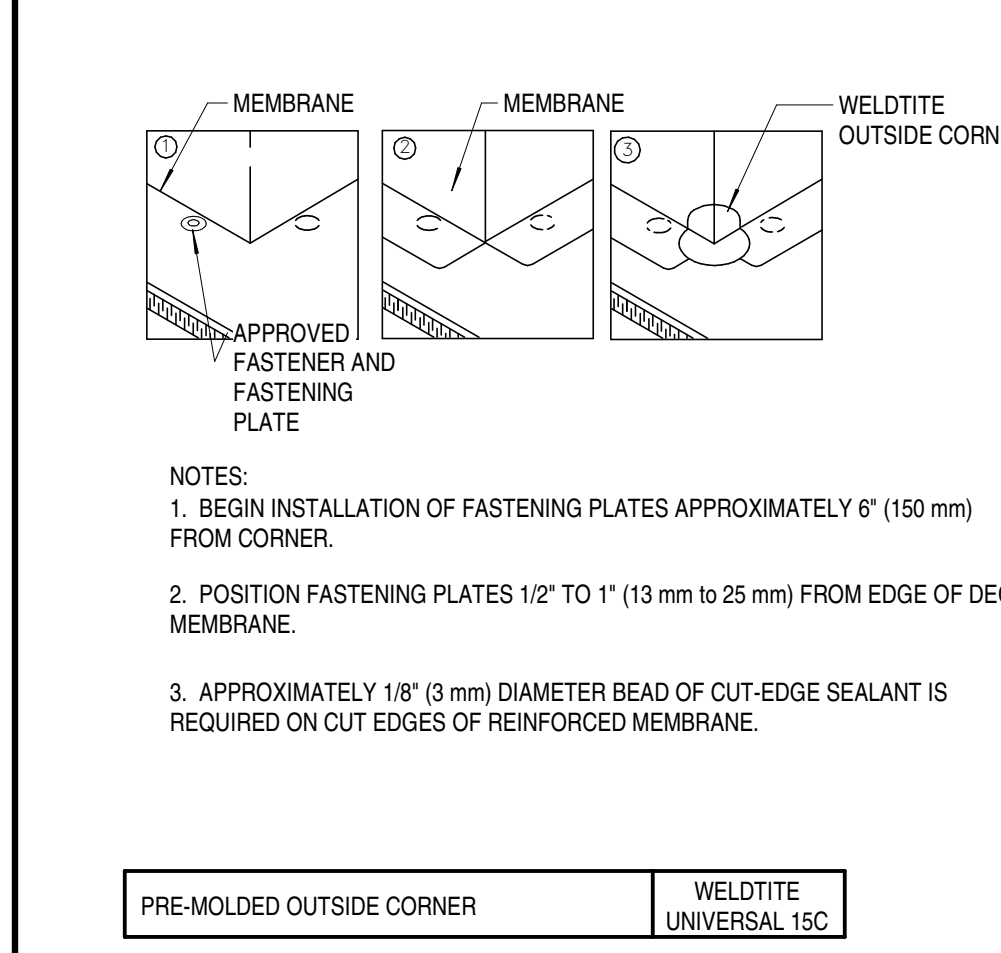
21 METAL SOFFIT PANEL / SPLICE

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27 ROOF PENETRATION BOOT AT STANDING SEAM METAL ROOF

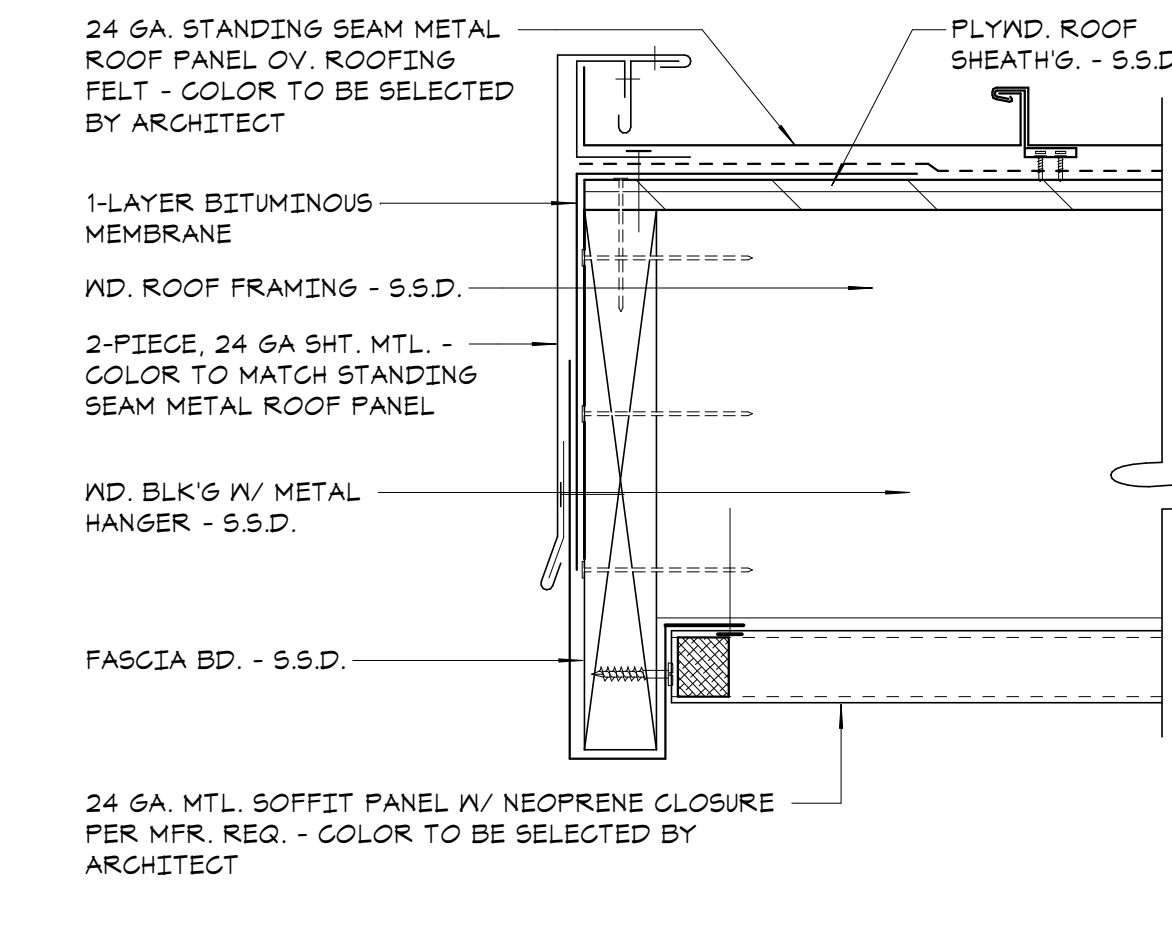
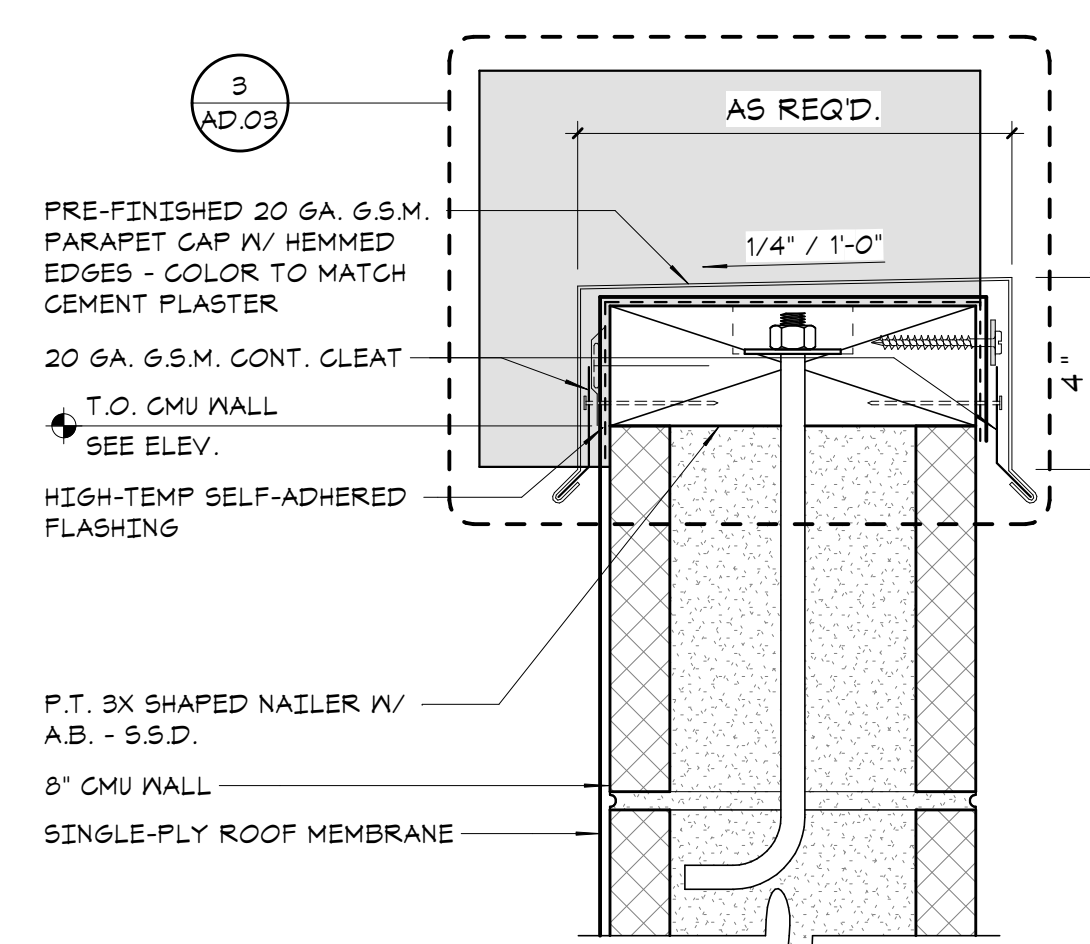
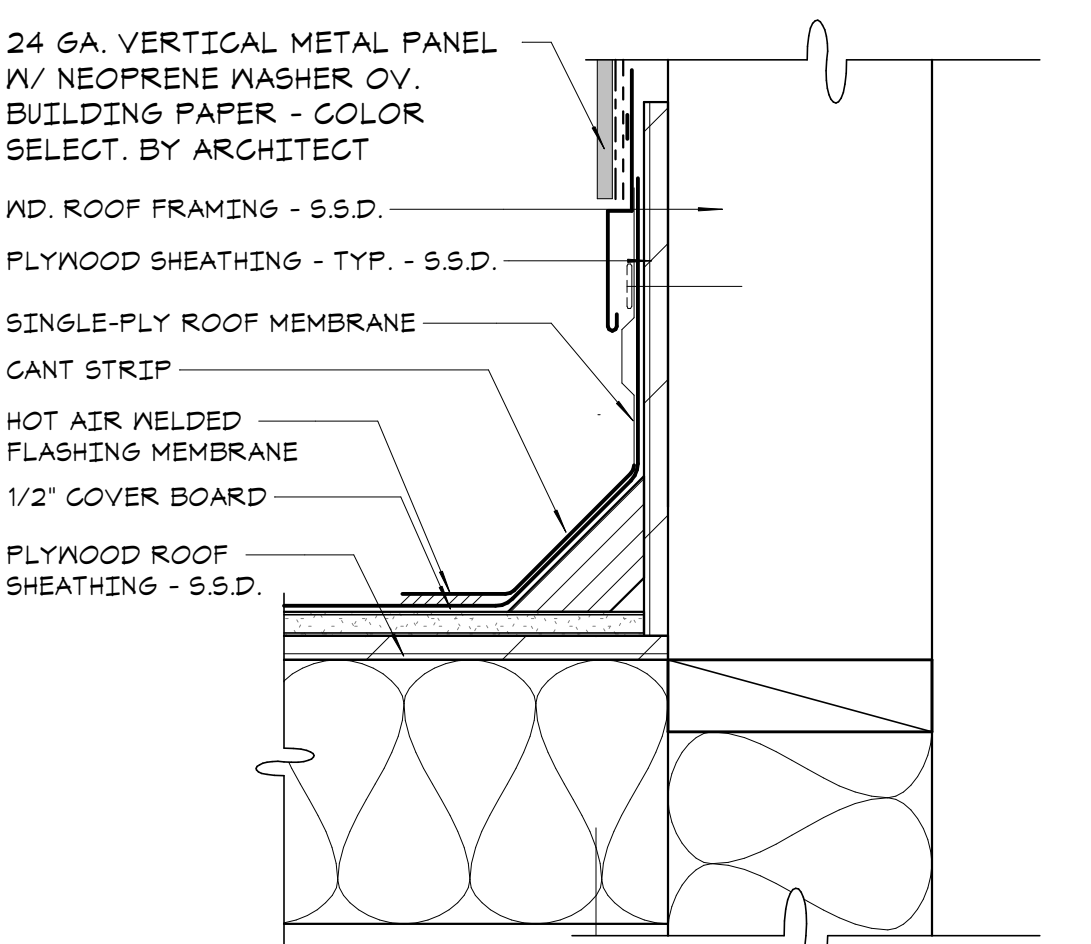
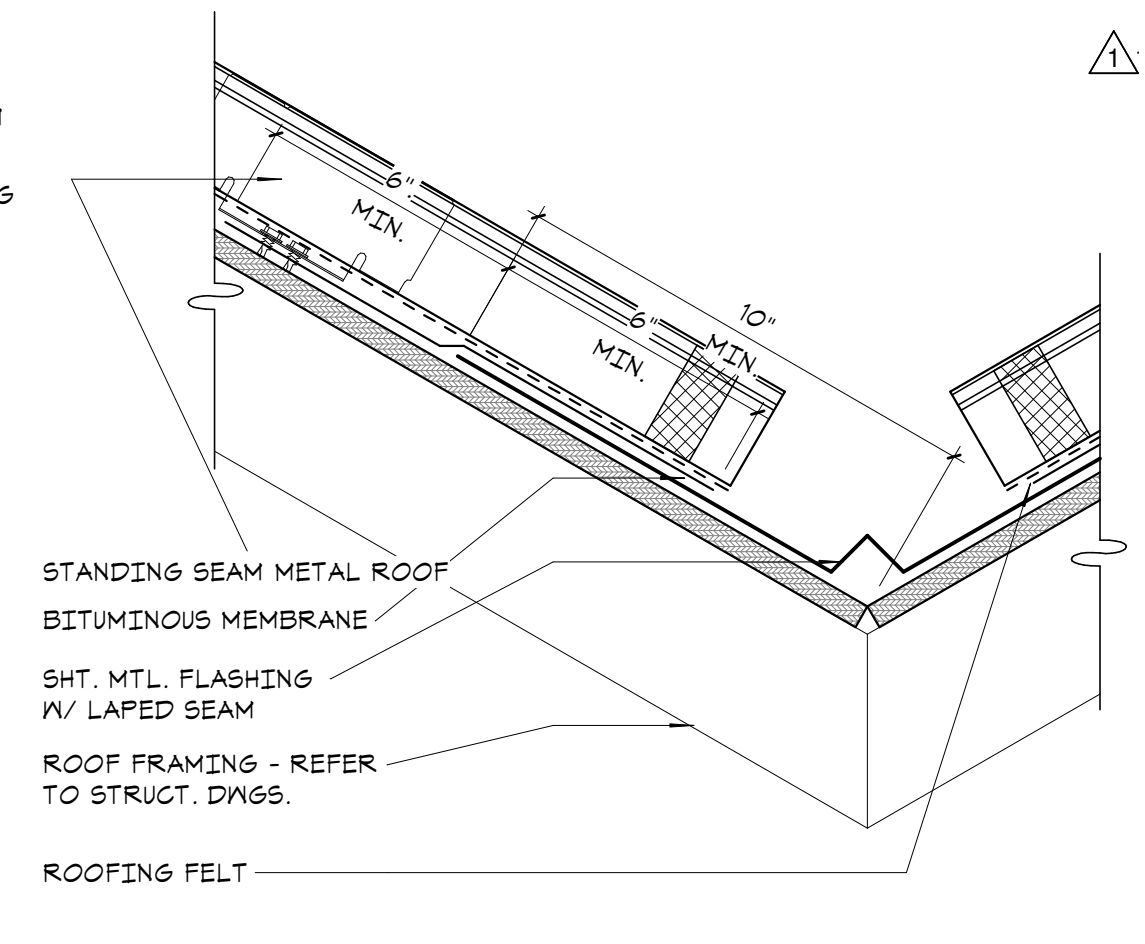
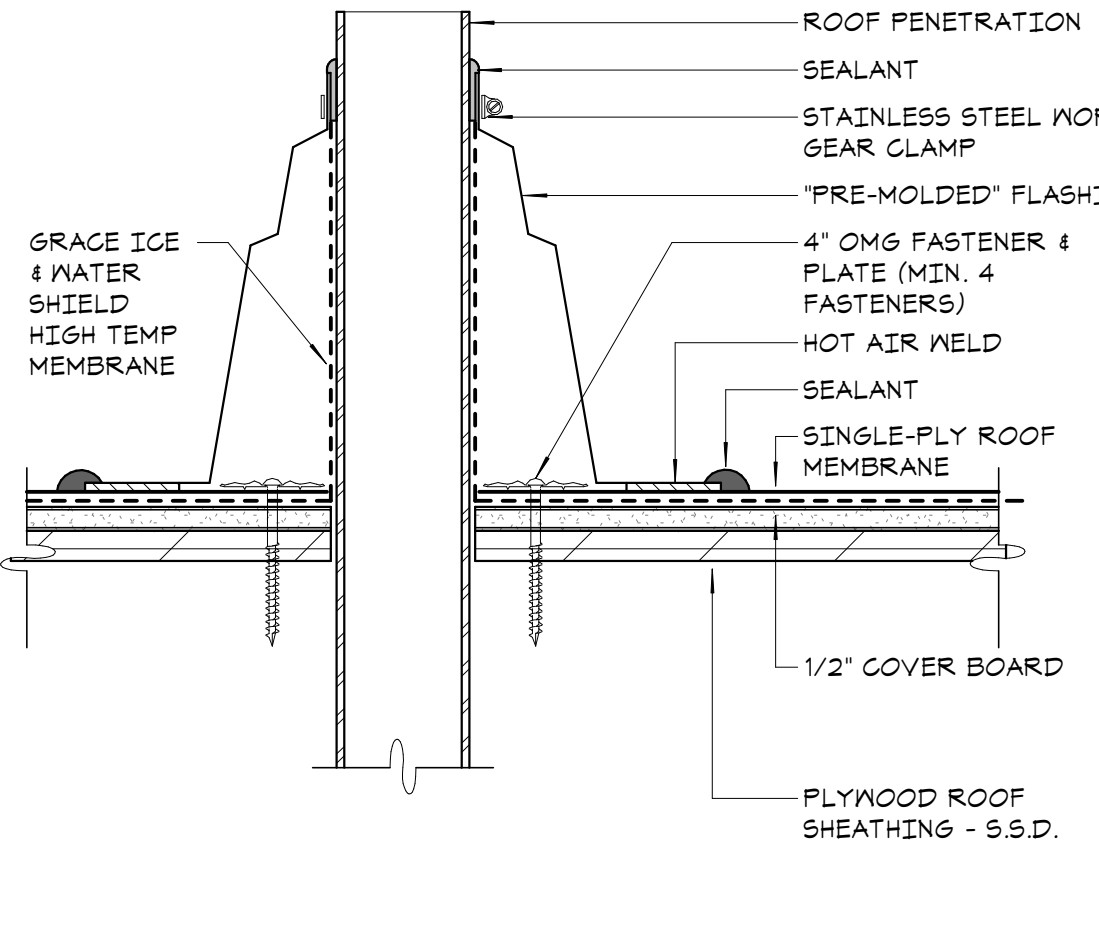
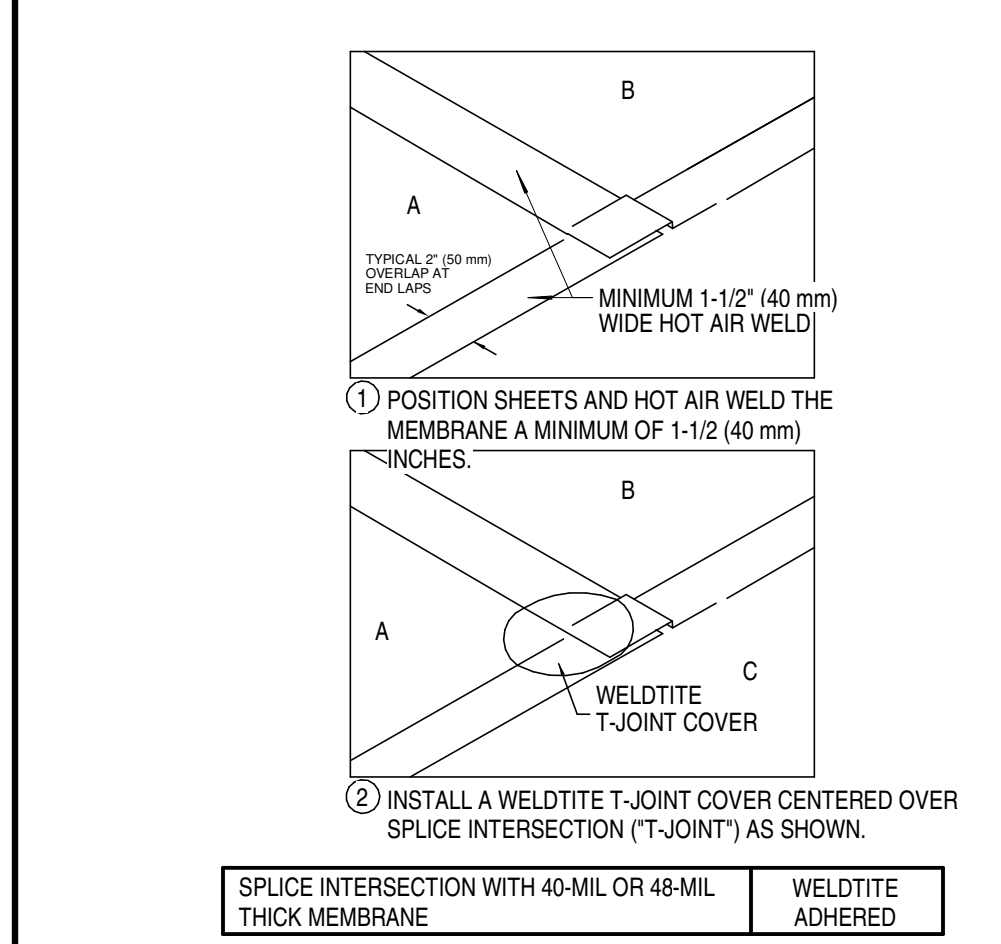
21 METAL SOFFIT PANEL / SPLICE

16 BEAM PENETRATION @ CMU WALL EAVE

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27 ROOF PENETRATION BOOT AT STANDING SEAM METAL ROOF

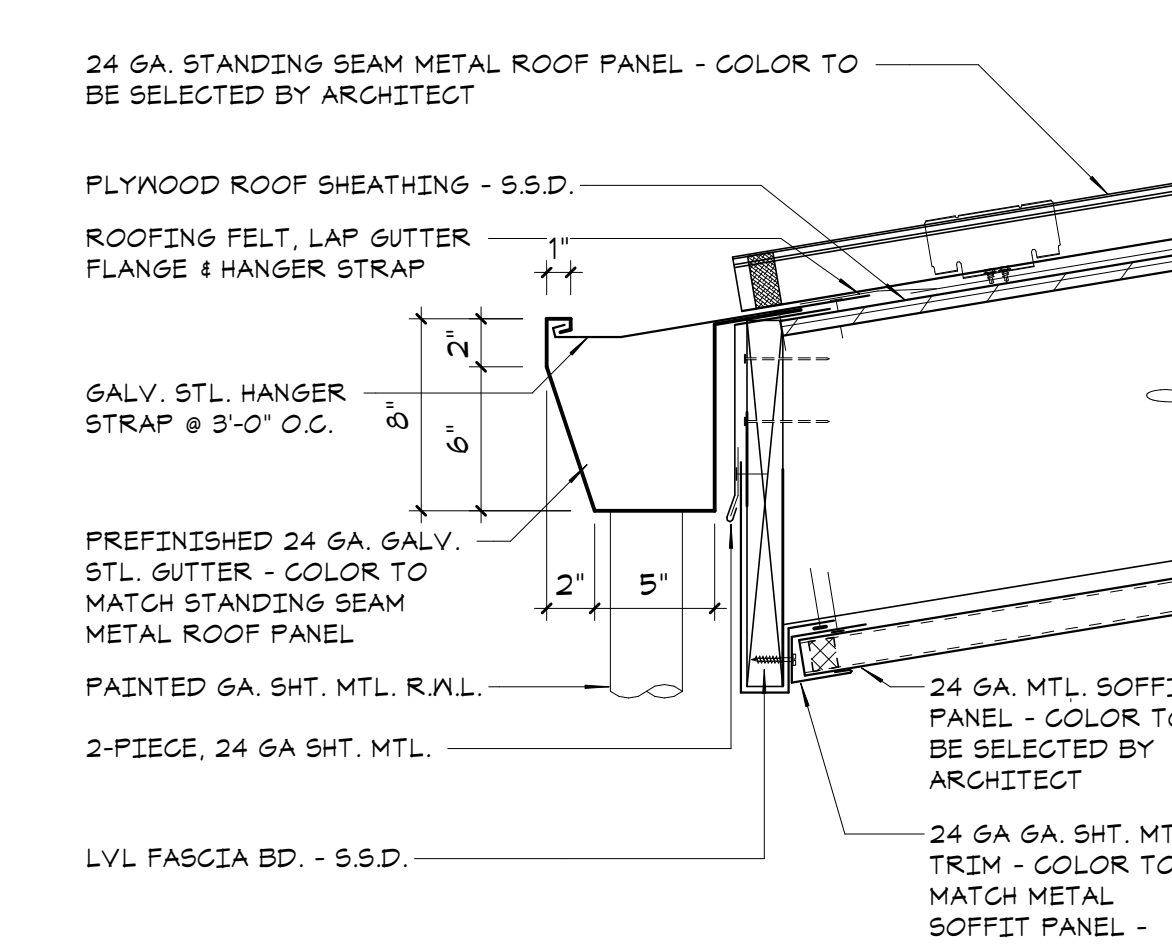
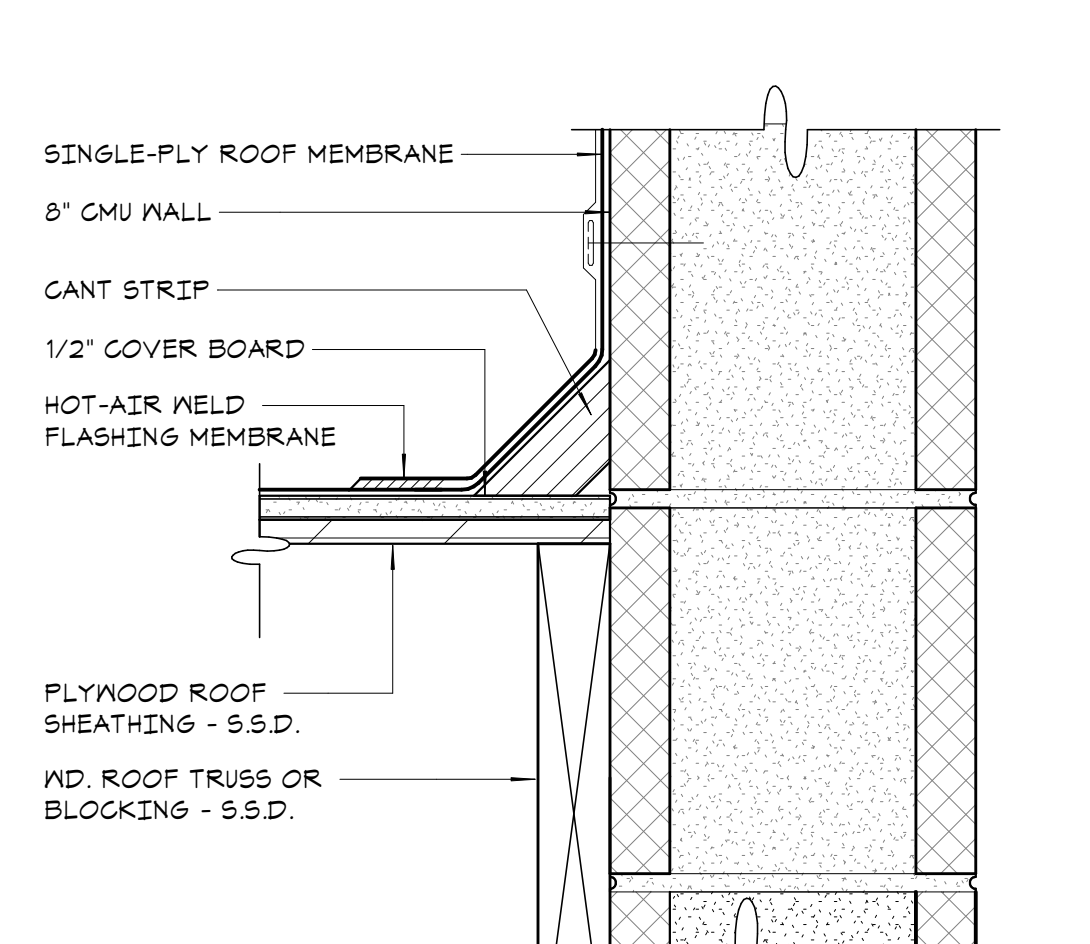
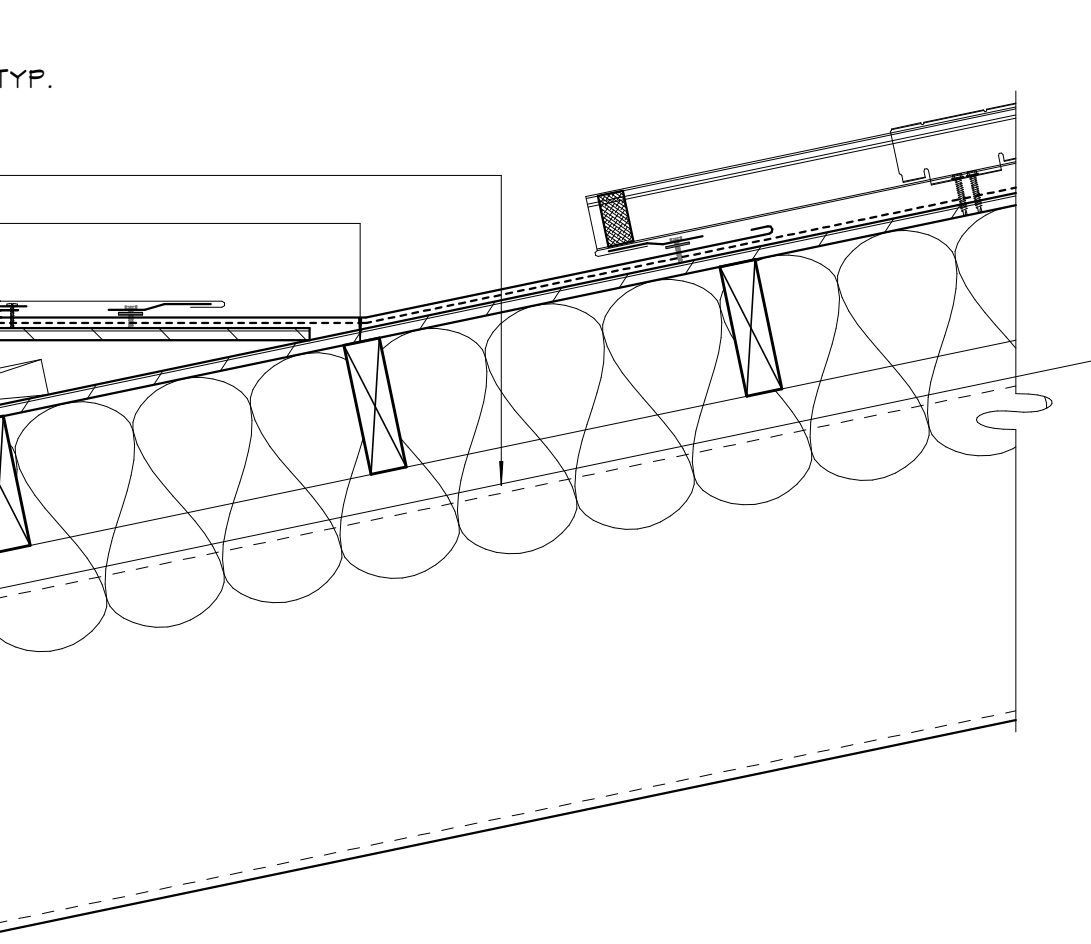
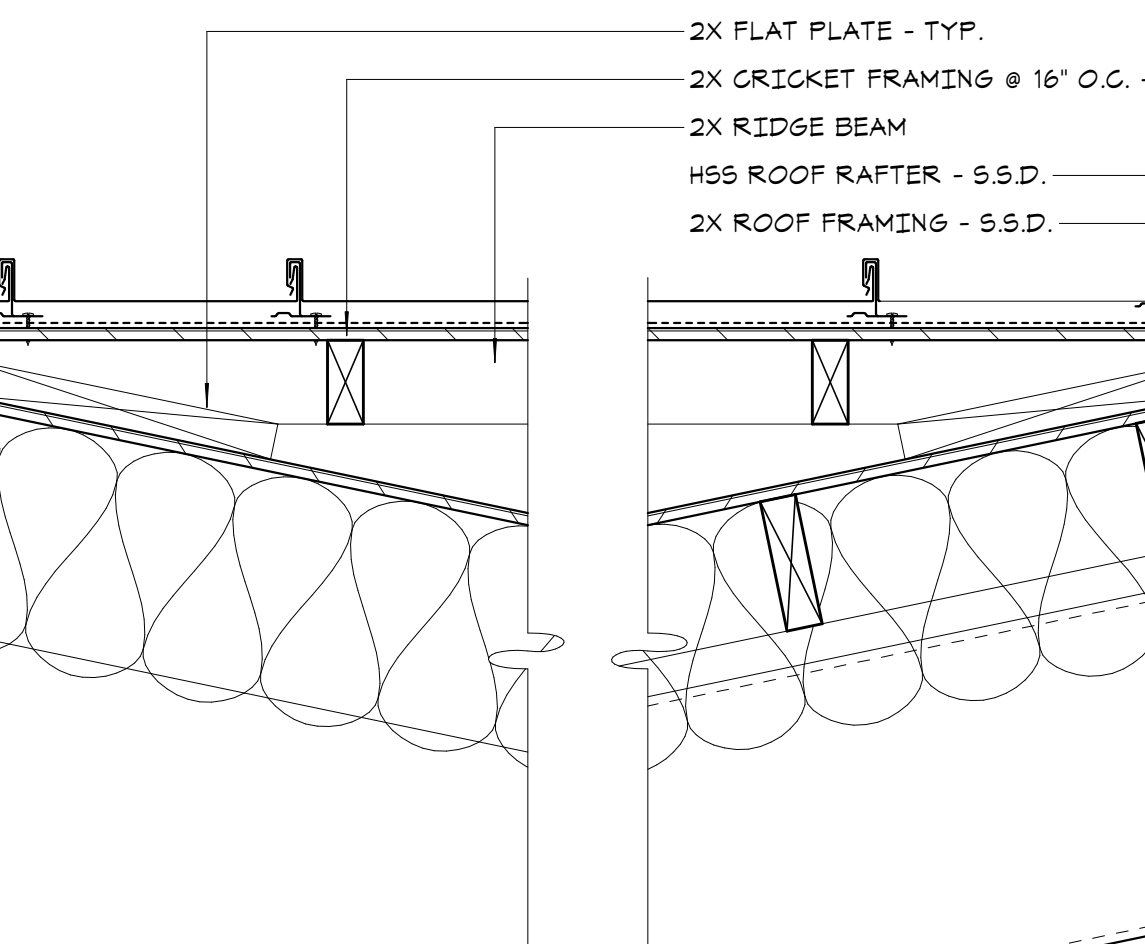
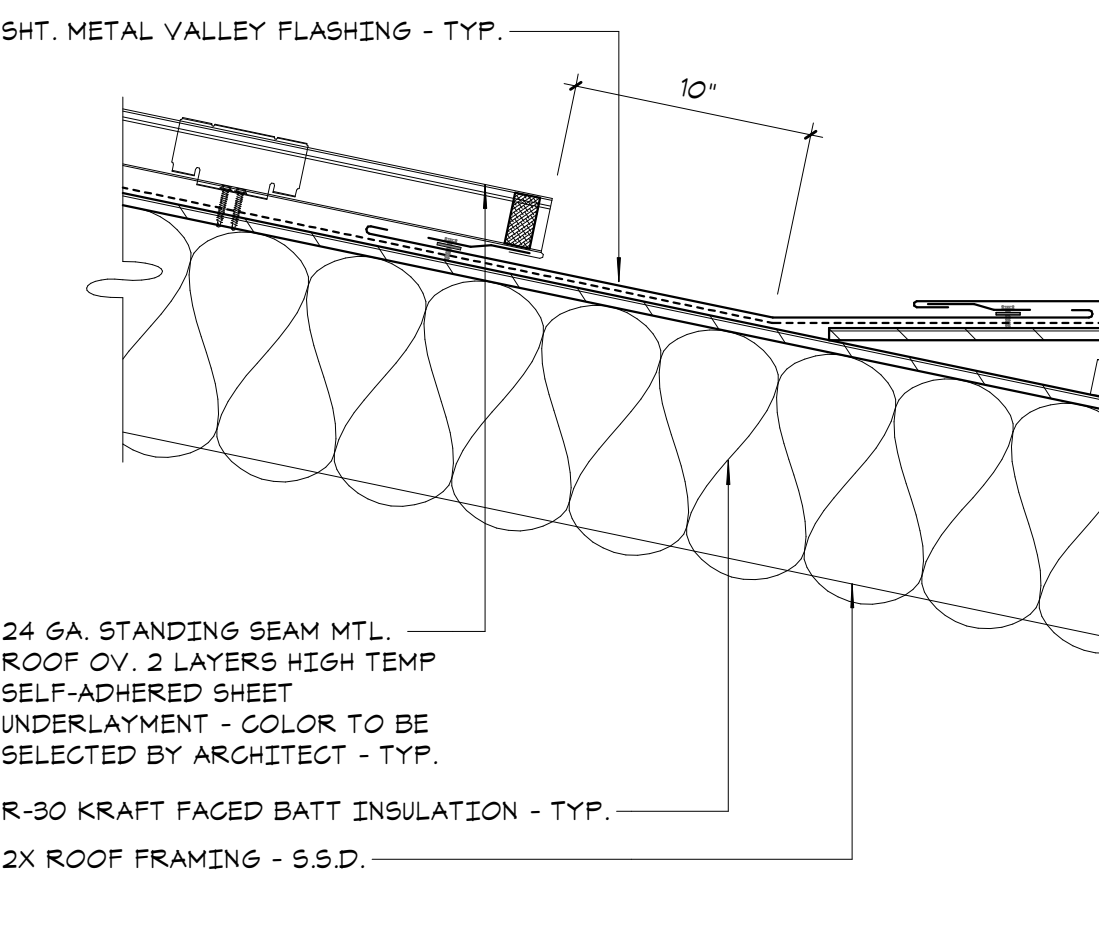
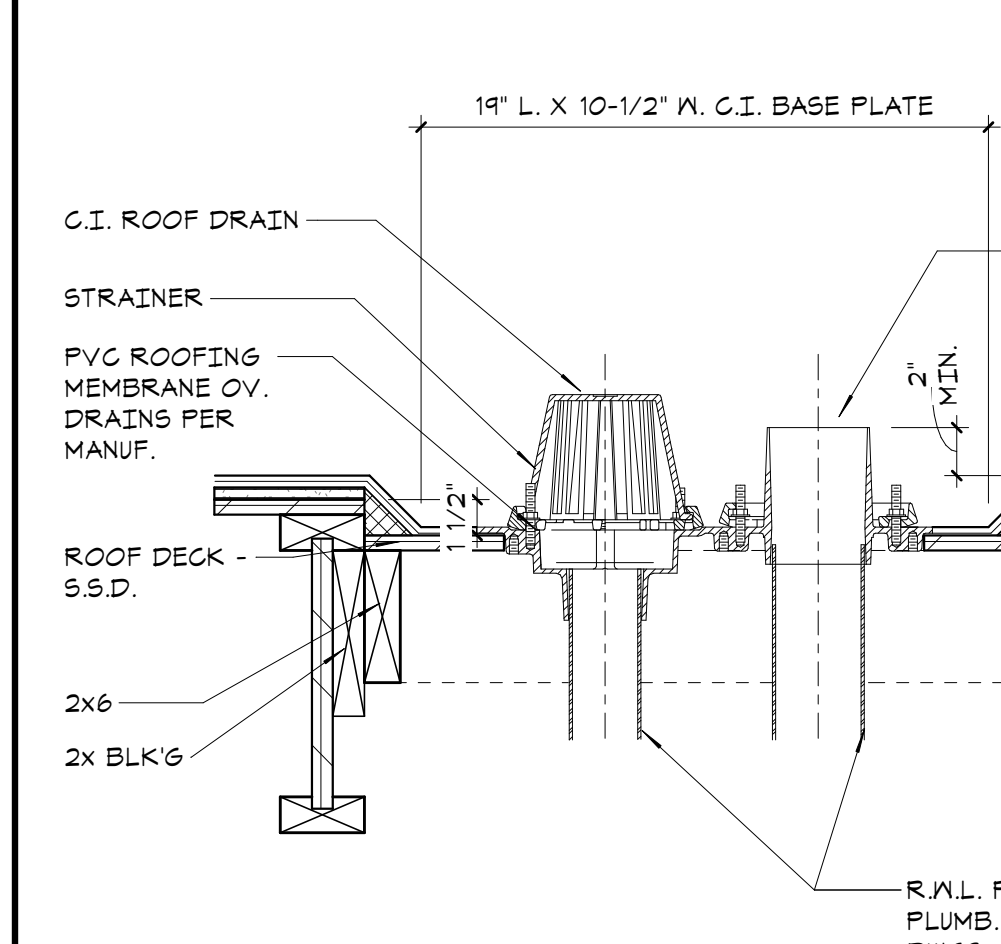
21 METAL SOFFIT PANEL / SPLICE

16 BEAM PENETRATION @ CMU WALL EAVE

11 ROOF RIDGE

6 ENTRY ROOF FASCIA AT HSS

1 CURB AT MECHANICAL UNIT



30 ROOF DRAIN & OVERFLOW

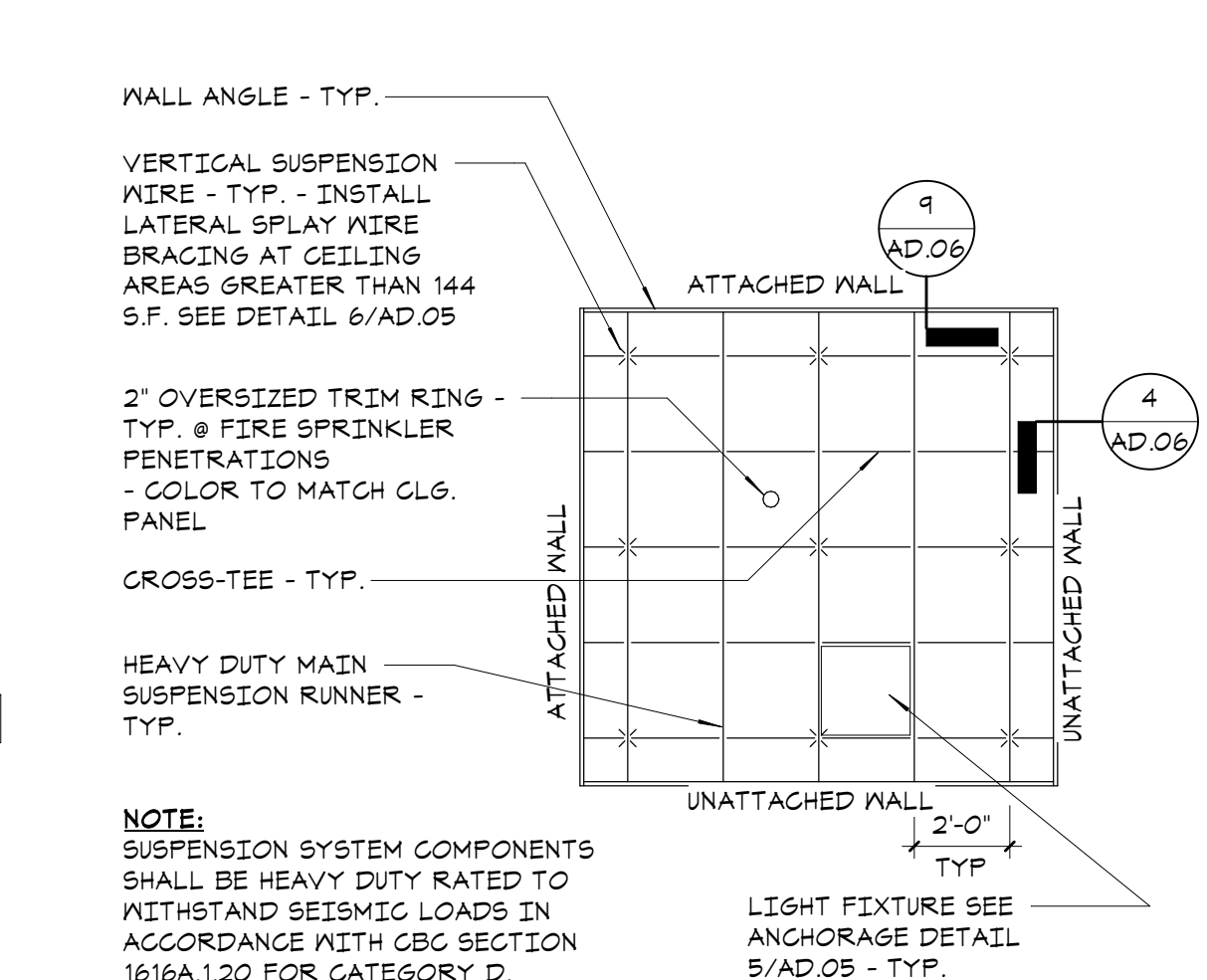
25 MD. FRAMED CRICKET OV. ROOF DECK

16 BEAM PENETRATION @ CMU WALL EAVE

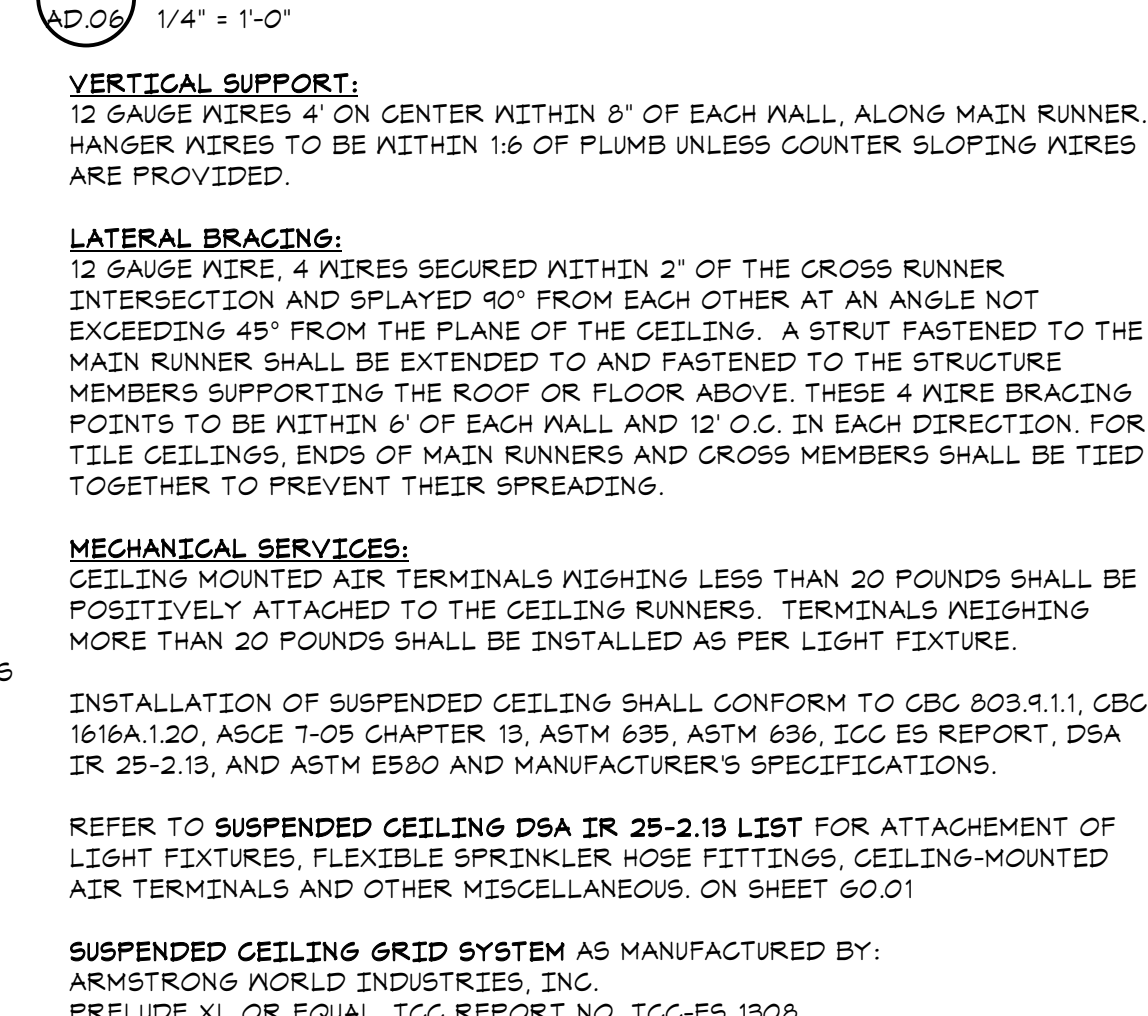
11 ROOF RIDGE

6 ENTRY ROOF FASCIA AT HSS

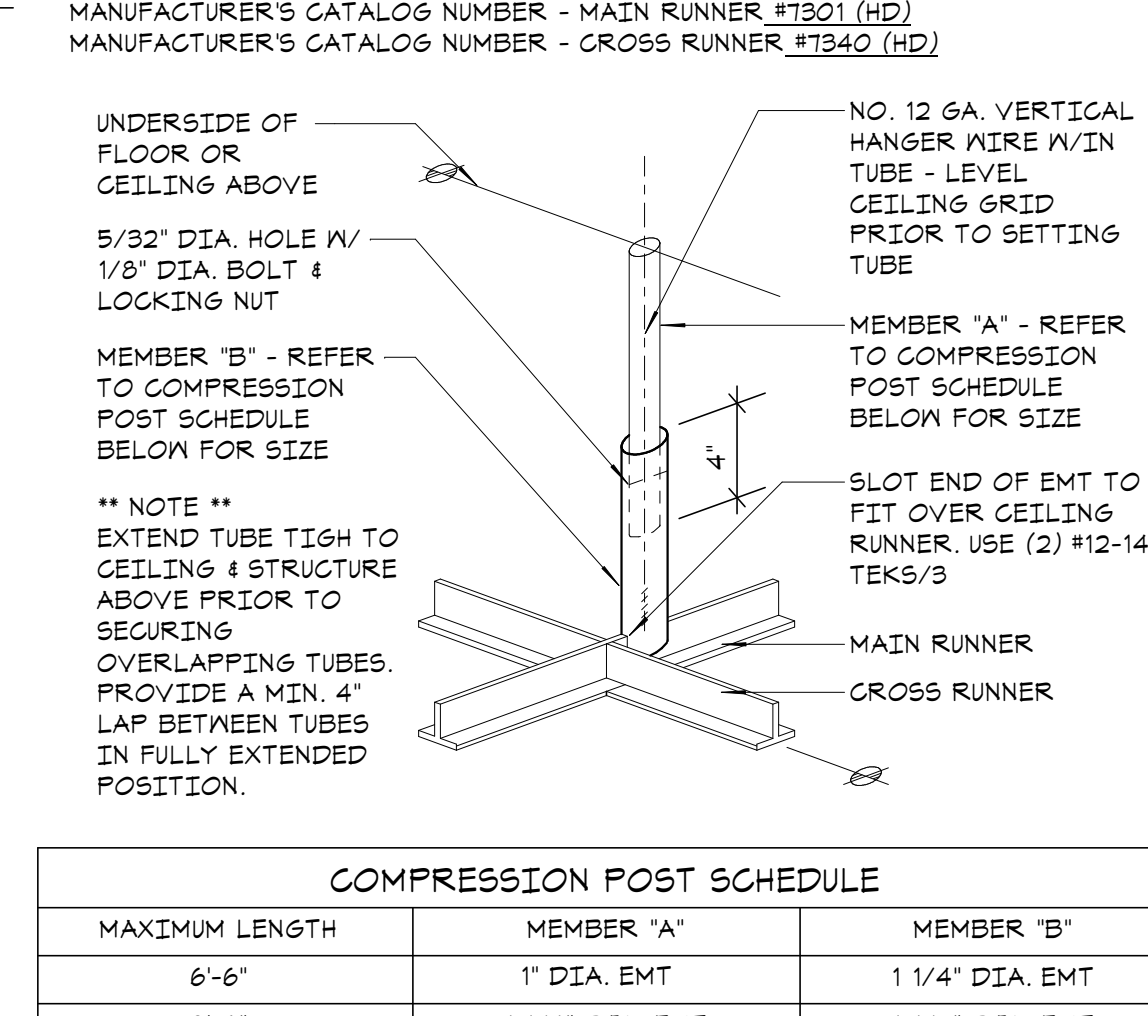
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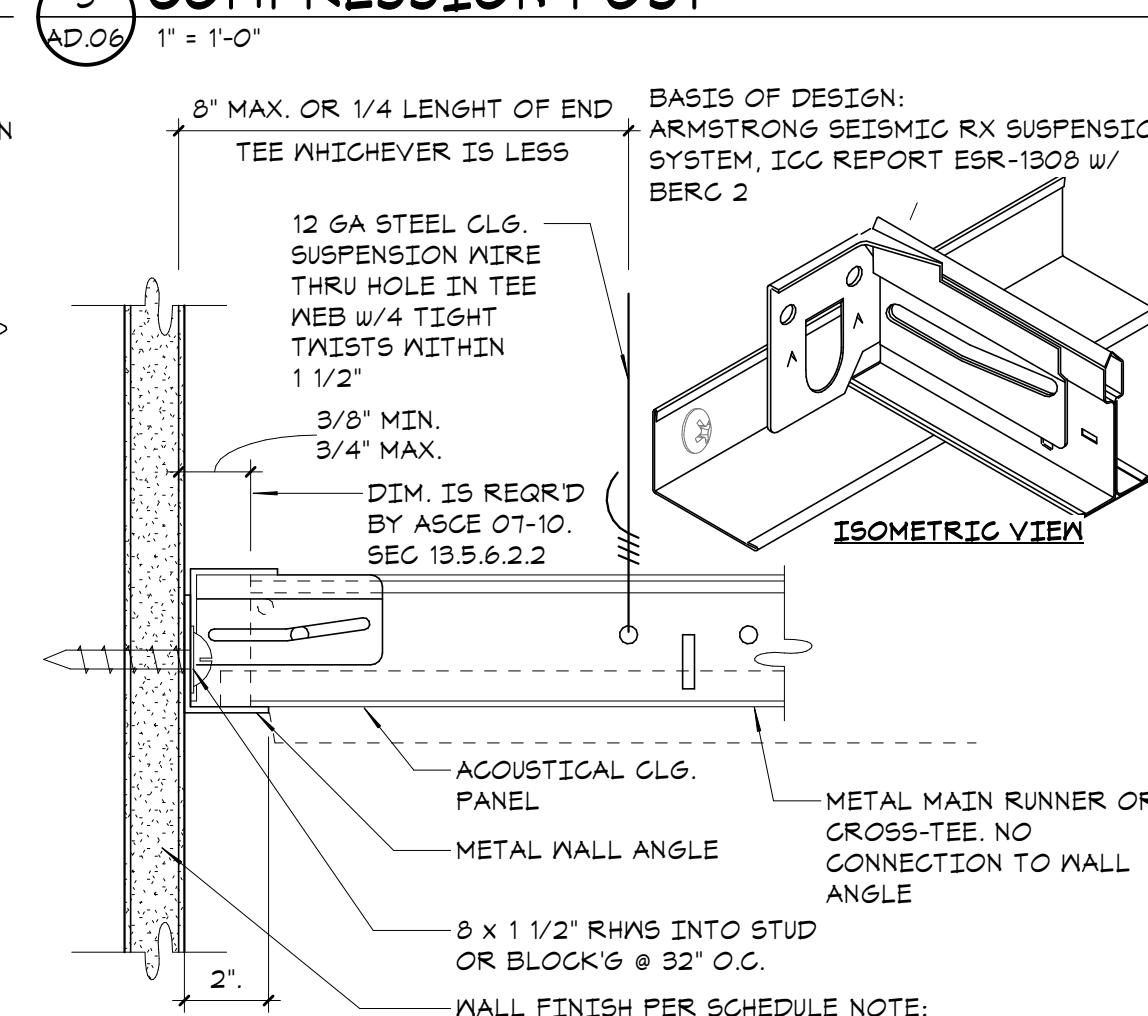
① TYP. SUSP. ACOUST. PNL CEILING



CLASSIFICATION OF CEILING GRID IS HEAVY DUTY.

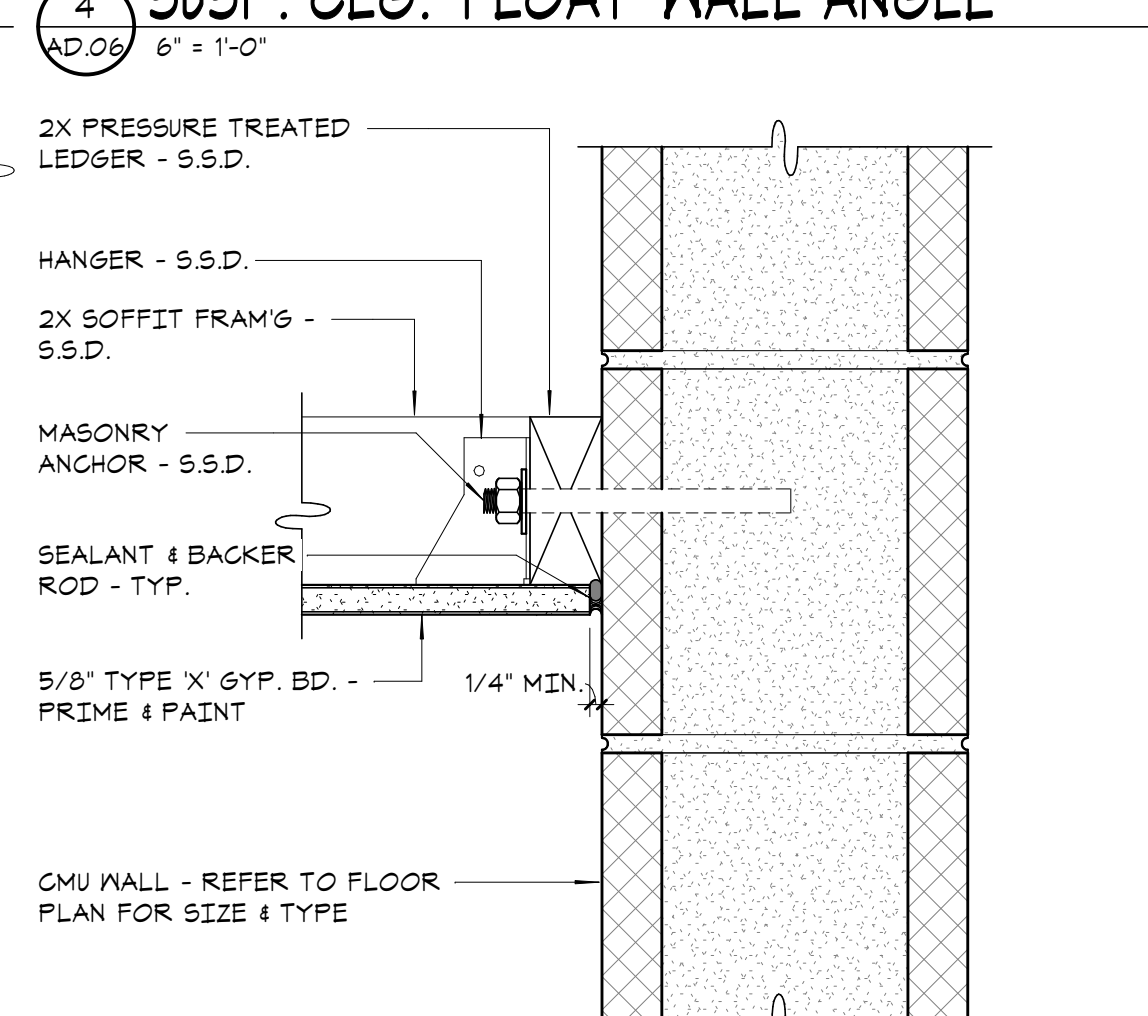


3 COMPRESSON POST



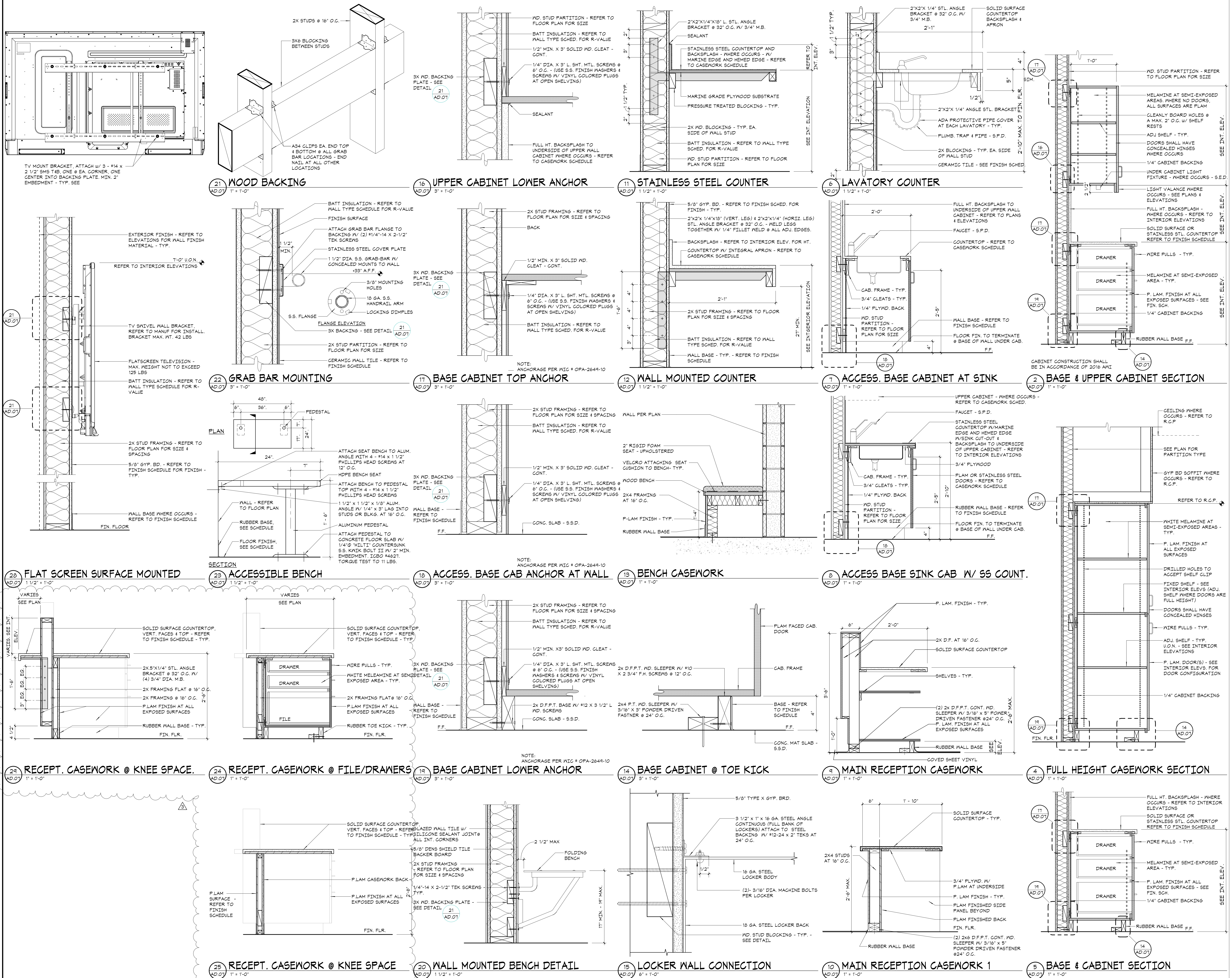
SEISMIC C

① SUSP C/G 'FLOAT' WALL ANGLE



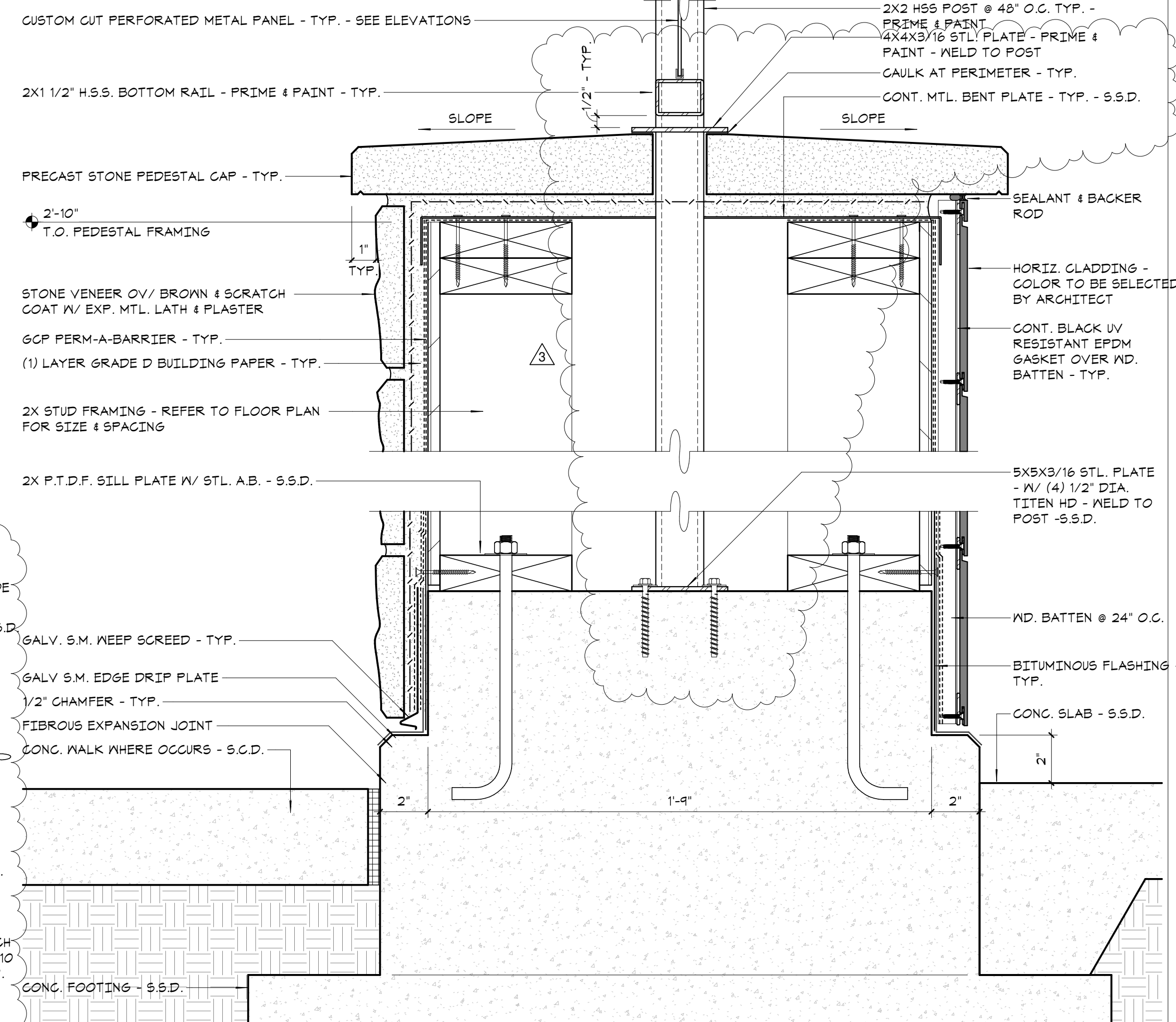
COFFETT FRAMING & CMU





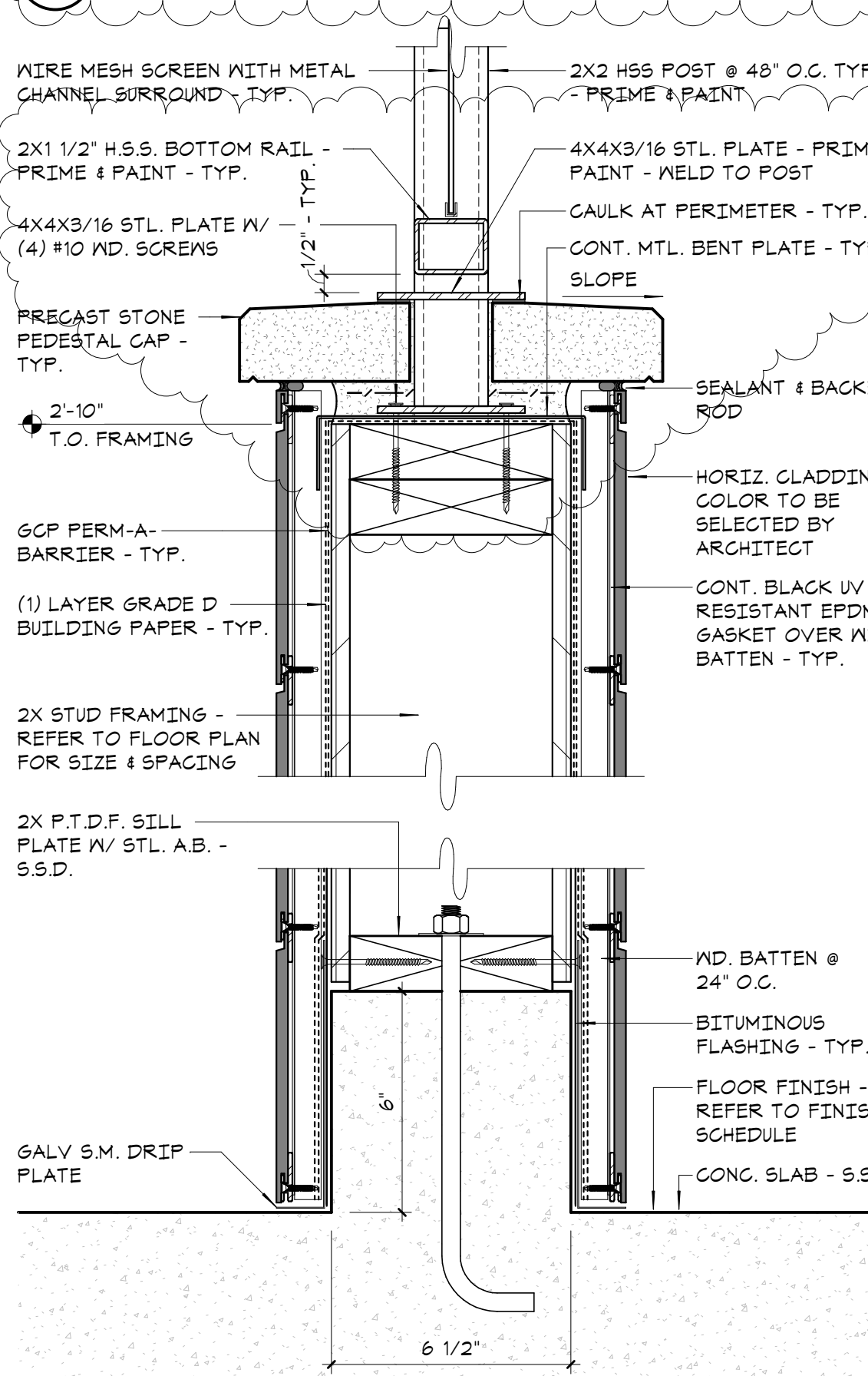
6 CATIO SCREEN TO HSS

AD.09 3" = 1'-0"



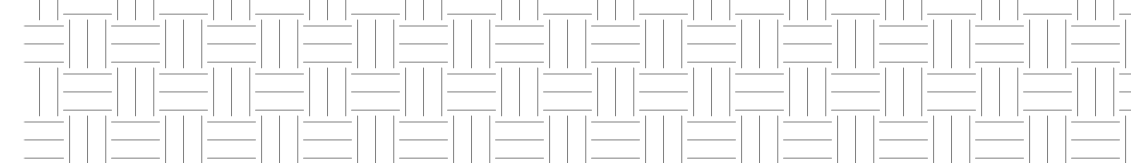
13 HSS POST TO ROOF STRUCTURE

AD.09 1 1/2" = 1'-0"



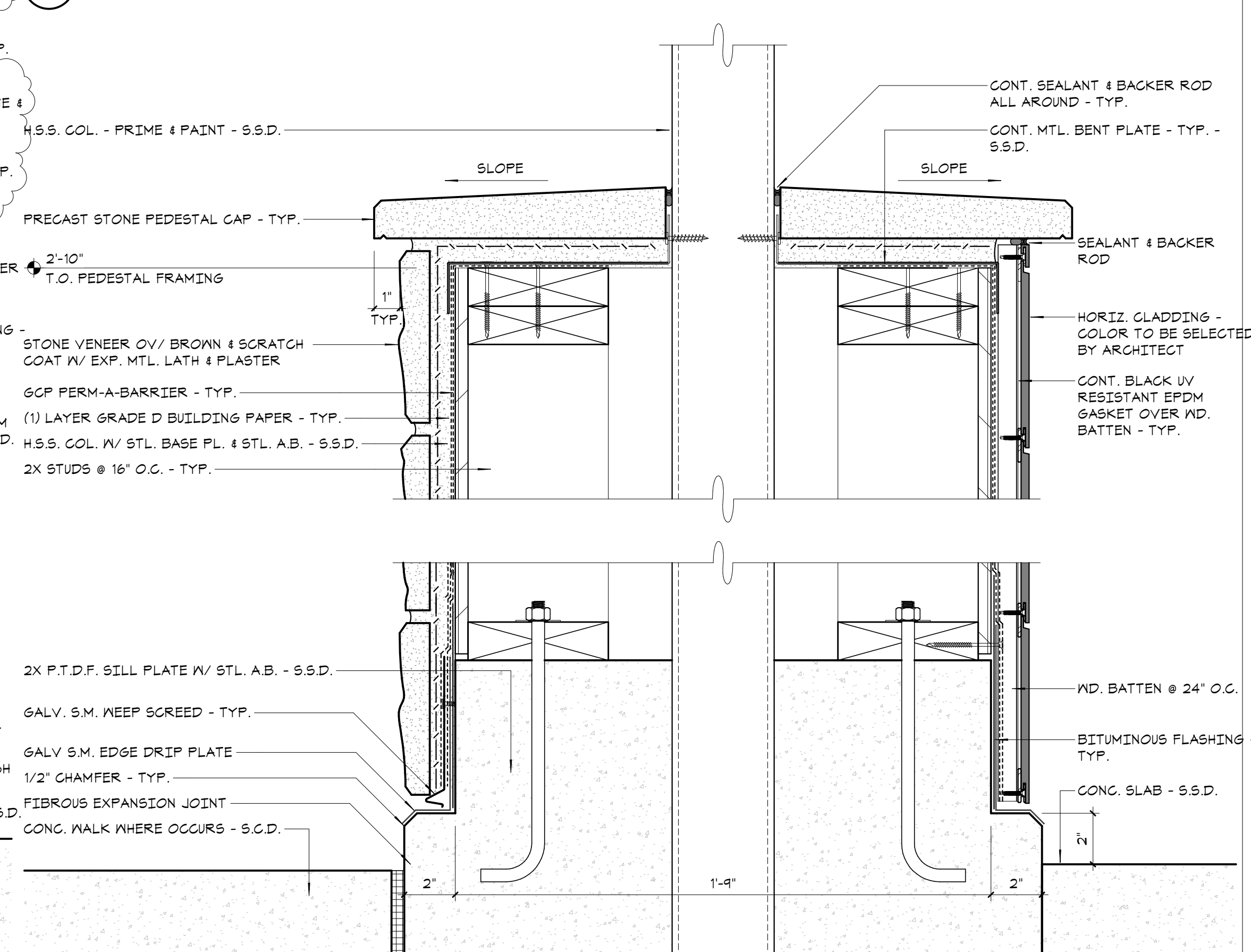
15 HORIZ. PHEN. SIDING AT CATIO WALL

AD.09 3" = 1'-0"



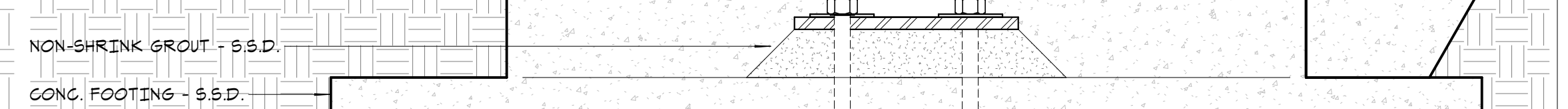
8 PRECAST STONE VENEER/PHENOLIC SIDING WALL AT CATIO SCREEN

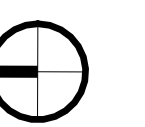
AD.09 3" = 1'-0"



10 PRECAST STONE VENEER/PHENOLIC SIDING WALL AT HSS COLUMN AT CATIO

AD.09 3" = 1'-0"

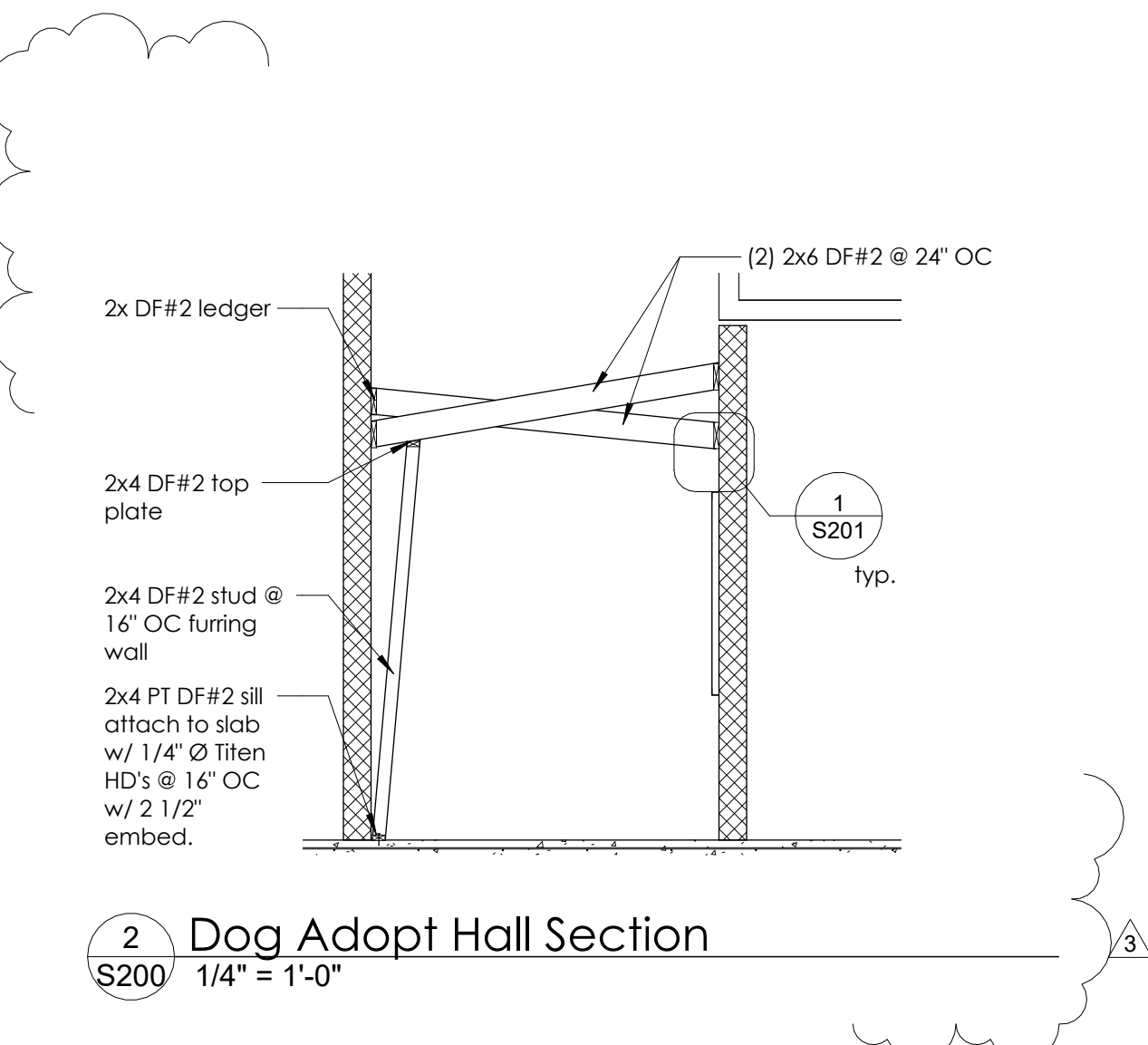




1 Ceiling Framing Plan
S200 1/8" = 1'-0"

Ceiling Framing Legend

- ACT system
- Vaulted Ceiling



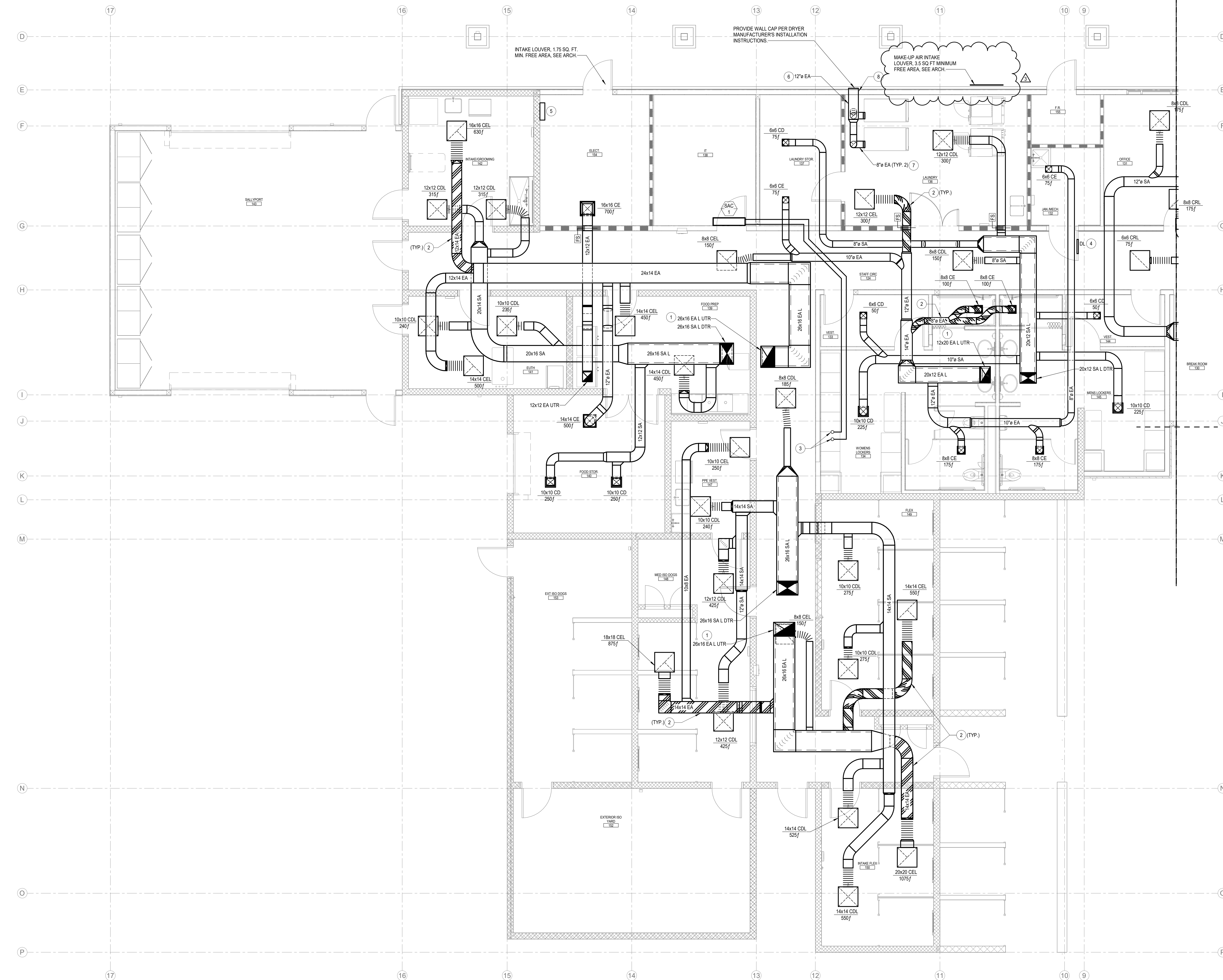
SHEET NOTES:

1. FOR TYPICAL DIFFUSER/REGISTER/GRILLE MOUNTING, REFER TO DETAIL 1M5.00.
2. FOR TYPICAL CONCEALED DUCT SUPPORT MOUNTING, REFER TO DETAIL 3M5.01.
3. FOR TYPICAL COMBINATION FIRE SMOKE DAMPER INSTALLATION, REFER TO DETAIL 2M5.01.

KEYNOTES:

- 1 EXHAUST AIR UTR TO HEAT RECOVERY WHEEL IN 100% OUTSIDE AIR PACKAGE HEAT PUMP UNIT.
- 2 EXHAUST DUCT BRANCH(ES) SERVING SHOWER OR ANIMAL AREAS ARE MARKED WITH A HATCH AND SHALL BE OF ALUMINUM CONSTRUCTION, WITHOUT INTERNAL DUCT LINING.
- 3 REFRIGERANT PIPING UP THRU ROOF PER DETAIL 2M5.00.
- 4 DOOR LOUVER, MINIMUM 0.25 SQ FT MINIMUM FREE AREA, SEE ARCH.
- 5 COORDINATE EXACT LOCATION OF BMS CONTROL PANEL IN ELECTRICAL ROOM WITH OTHER DISCIPLINES. POWER AND DATA CONNECTIONS BY DIV 26.
- 6 TYPE 2 DRYER EXHAUST DUCT, MIN 18 GA SHEET METAL WITH SMOOTH INTERIOR SURFACES. SIZES AND CONFIGURATION SHOWN IS BASED ON "UNIMAC" DRYER INSTALLATION MANUAL. INSTALL MINIMUM 6" FROM ALL COMBUSTIBLE MATERIALS. CONTRACTOR SHALL COORDINATE ALL DRYER EXHAUST DUCT WITH DRYER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- 7 PROVIDE ACCESS DOOR ON BOTTOM OF EACH STRAIGHT DUCT SECTION FOR CLEANING.
- 8 SEAL SPACE AROUND DUCT THRU EXTERIOR WALL WITH NON-COMBUSTIBLE MATERIAL.

DRYER MAKE-UP AIR CALCULATION:
42 KW DRYER x 2 DRYERS = 84 KW
84 KW x 3412.14 BTU/KW = 286,620 BTUH
1 SQ IN / 1000BTUH x 286,620 BTUH = 286.62 SQ IN
286.62 SQ IN x 1 SQ FT/144 SQ IN = 2.0 SQ FT MIN FREE AREA



SHEET NOTES:

1. THE ENTIRE AUTOMATIC FIRE SPRINKLER SYSTEM IS A DEFERRED-APPROVAL ITEM. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE OFFICE OF THE STATE FIRE MARSHALL OR THE AUTHORITY HAVING JURISDICTION. THE INTENT AND EXTENT OF THESE DRAWINGS ARE TO OUTLINE THE REQUIRED AREAS OF COVERAGE ONLY.
2. LIGHT HAZARD OCCUPANCY ROOMS UNDER 800 SF SHALL BE ALLOWED HEAD SPACING PER 2022 NFPA 13 SEC. 10.2.5.2.3
3. SPRINKLER PROTECTION UNDER NON-COMBUSTIBLE EXTERIOR ROOF PROJECTIONS MAY BE OMITTED PER 2022 NFPA 13 SEC. 9.2.3.2
4. SPRINKLER PROTECTION AT NON-COMBUSTIBLE CONCEALED SPACES MAY BE OMITTED PER 2022 NFPA 13 SEC. 9.2.4.1
5. PROVIDE CONCEALED SPRINKLER HEADS AT ALL LOCATIONS. COVERS TO BE CHROME FOR EXTERIOR LOCATIONS. COVERS TO BE WHITE OR PAINTED TO MATCH HARD LID CEILINGS FOR INTERIOR LOCATIONS.

KEYNOTES:

- 1 INCOMING UNDERGROUND 6" FIRE WATER LINE TO SERVE THE BUILDING. SPRINKLER POC 5'-0" OUTSIDE FACE OF THE BUILDING UNLESS OTHERWISE NOTED. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION.
- 2 FIRE RISER ASSEMBLY REFER TO DETAIL 1/FP0.01 FOR ADDITIONAL INFORMATION.
- 3 ALL AREAS OF THE BUILDING TO BE FULLY PROTECTED BY AN AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM PER NFPA 13 2022 REQUIREMENTS. AREAS SHALL INCLUDE ALL OVERHANGS, CANOPIES, AND CONCEALED SPACES UNLESS OTHERWISE CALLED TO BE OMITTED ON THESE PLANS.

Consultant:

Capital Engineering
Consultants, Inc.
11020 Sun Center Dr.
Rancho Cordova, CA
95670
916.851.3500
www.capitol-engineering.com



DATE SIGNED: 6/18/2026

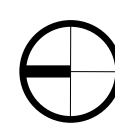


Project:

LATHROP ANIMAL CENTER

15005 STANFORD CROSSING
LATHROP, CA 95330

Key Plan:



Project No.: ###-##-##

Drawn By: Author

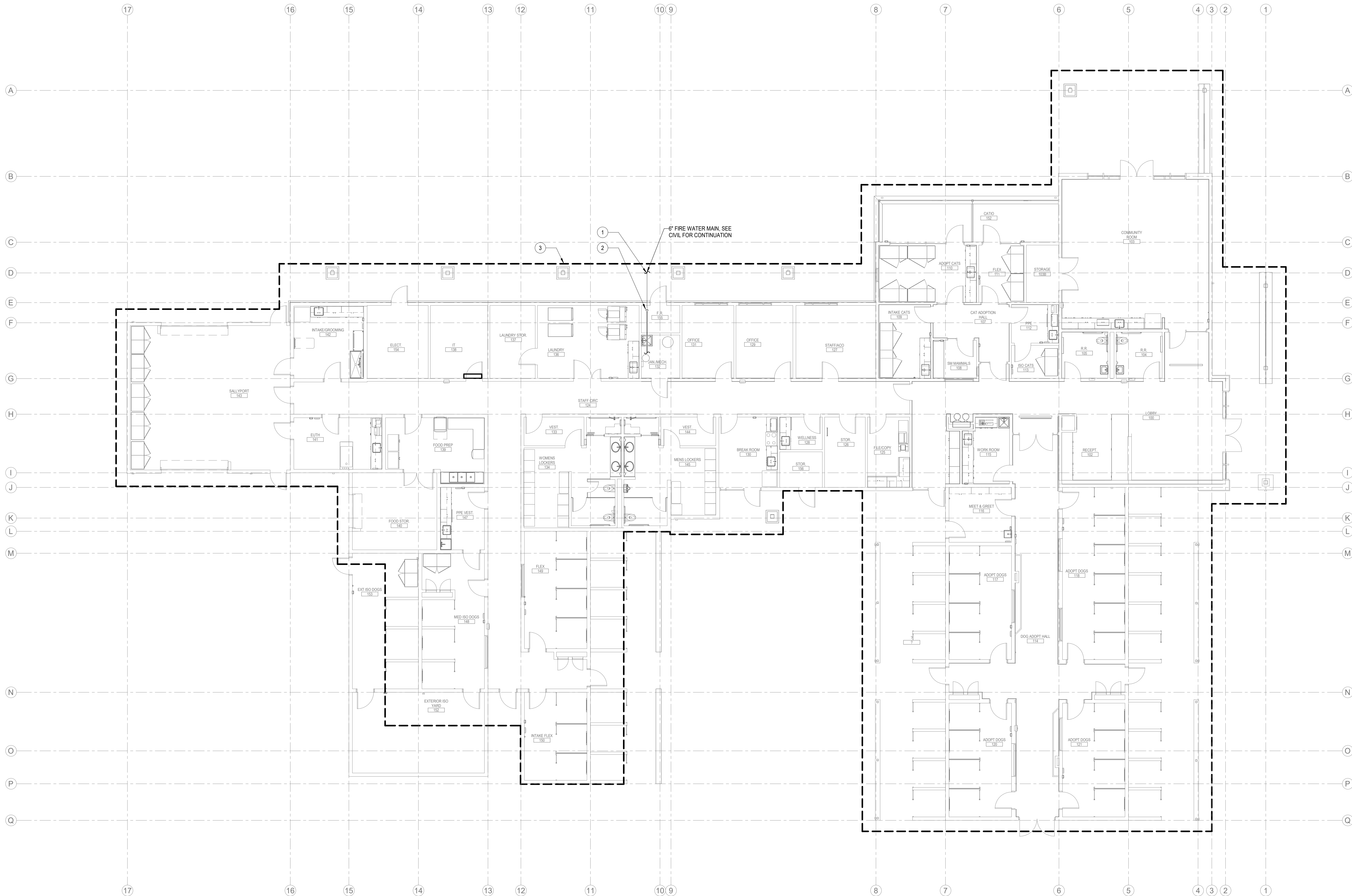
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No.	Description	Date	By
3	Addenda #2	7/10/26	

ADDENDA #2
07/10/2026

OVERALL FIRE PROTECTION
FLOOR PLAN

FP2.00





Architect:
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Designers & Architects
222 Central Court
Stockton, CA 95204
209.943.0405
www.ldapartners.com



The Engineering Enterprise
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NORCO | SAN DIEGO | SANTA BARBARA
http://www.eent.com

Client:
CITY OF LATHROP
390 Towne Center Dr.
Lathrop, CA 95330
209.941.7200

Project:
LATHROP ANIMAL SERVICES
801 STANFORD CROSSING
DRIVE
LATHROP, CA. 95330

Key Plan:

Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By
1	PC2	2026-05-05	
3	Addenda #2	2026-07-10	

ADDENDA #2
7/10/2026

SITE PLAN

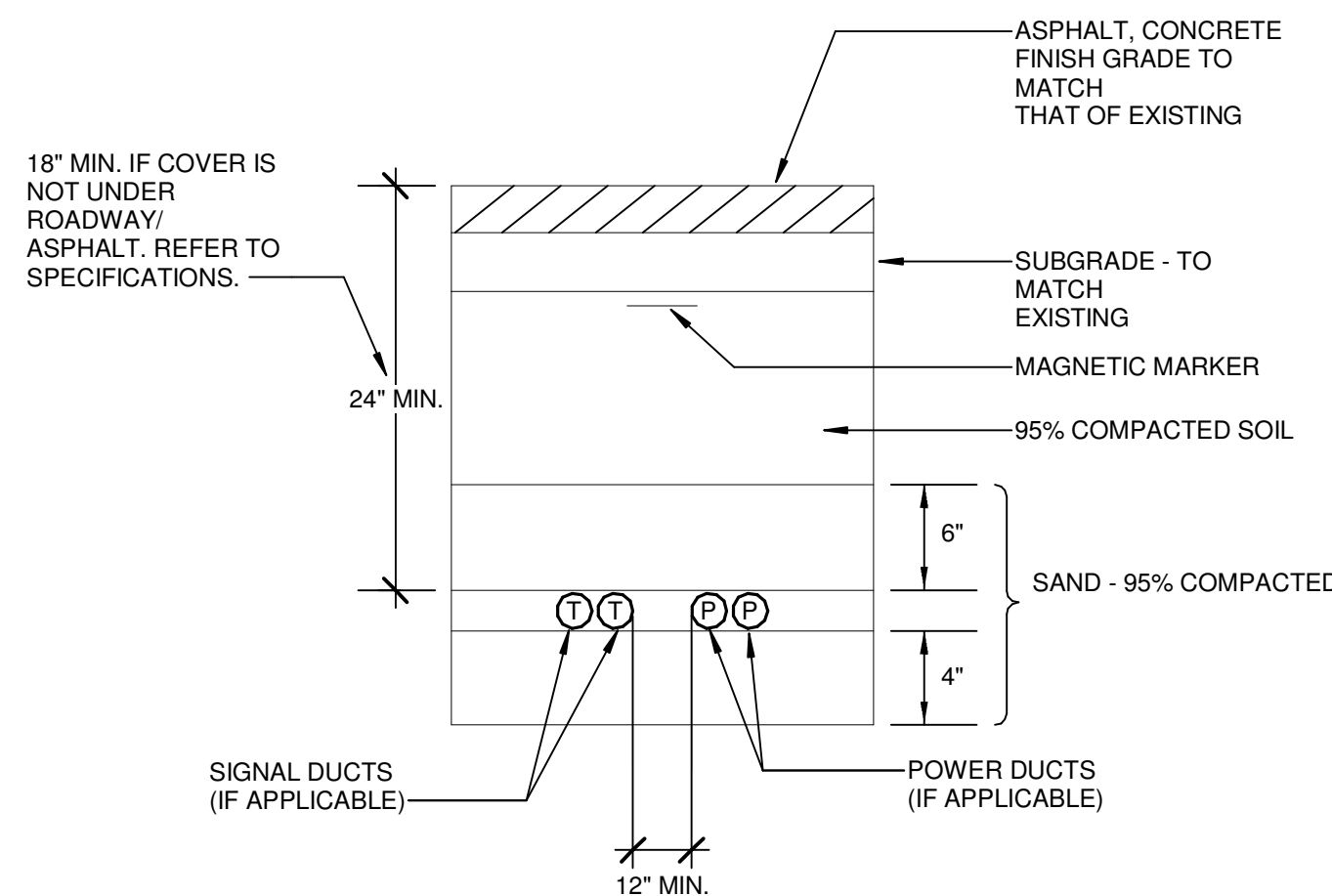
E1.00

GENERAL SHEET NOTES

- EQUIPMENT SHALL BE INSTALLED PER STANDARDS OF RESPECTIVE UTILITY PROVIDER.
- REFER TO PG&E STANDARDS FOR TRENCHING, CONDUIT SEPARATION, AND BACKFILL REQUIREMENTS. PG&E PRIMARY CONDUIT SHALL BE INSTALLED UNDER 30" COVER MINIMUM.
- PG&E JOINT TRENCH REQUIRES 54" MINIMUM DEPTH. REFER TO PG&E DOCUMENT S5453 FOR JOINT TRENCH ARRANGEMENTS.
- REFER TO AT&T STANDARDS FOR TRENCHING, CONDUIT, AND BACKFILL. AT&T CONDUIT SHALL BE INSTALLED UNDER 24" COVER MINIMUM.
- UG SITE CONDUIT SHALL BE 1" MINIMUM.
- CIRCUIT NUMBERS ON THIS SHEET CORRESPOND TO PANEL LC UON.
- PROVIDE EV CHARGER. EV CHARGER BASIS OF DESIGN IS CHARGEPOINT CPF 50, 32A POWER SHARE.
- UNDERGROUND SERVICE CONDUCTORS THAT ARE NOT ENCASED IN CONCRETE AND THAT ARE BURIED 450MM (18IN.) OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED BY A WARNING RIBBON THAT IS PLACED IN THE TRENCH AT LEAST 300MM (12IN.) ABOVE THE UNDERGROUND INSTALLATION PER CEC300.5.D.3.
- PROVIDE #10 CONDUCTORS FOR SITE LIGHTING CIRCUITS.

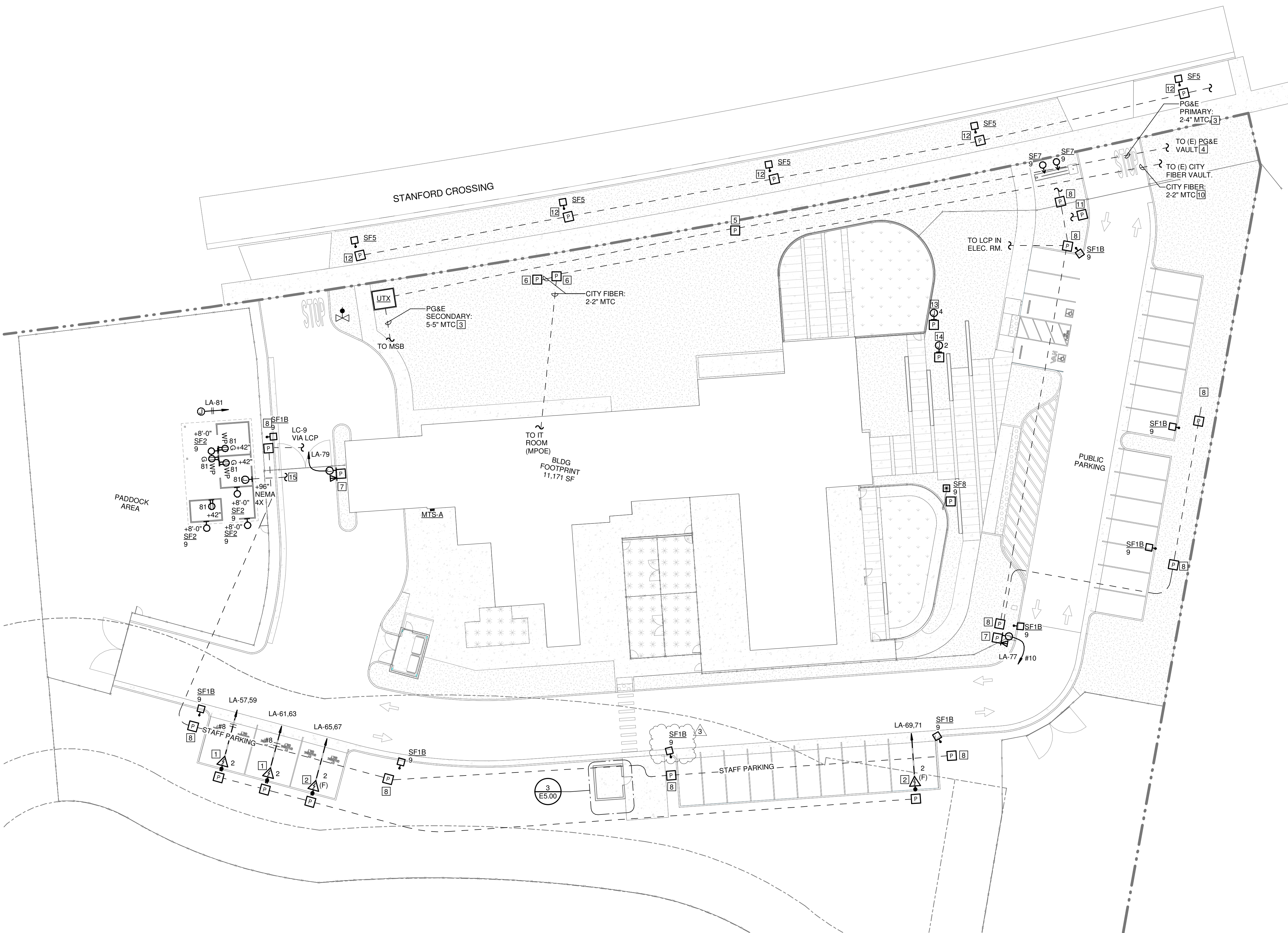
NUMBERED SHEET NOTES

- PROVIDE LEVEL 2 EV CHARGER, DUAL CHARGING CABLES. PROVIDE 1" CONDUIT TO PULLBOX FROM PANEL LA SECT. 2. CHARGEPOINT CPF 50 USED AS BASIS OF DESIGN.
- FUTURE LEVEL 2 EV CHARGER, DUAL CHARGING CABLES. PROVIDE 1" CONDUIT WITH PULL TAPE TO PULL BOX FROM PANEL LA SECT. 2. CHARGEPOINT CPF 50 USED AS BASIS OF DESIGN.
- PROVIDE CONDUIT (NUMBER AND SIZE AS INDICATED) FOR UTILITY SERVICE CABLES. CABLES FURNISHED, INSTALLED, AND CONNECTED BY UTILITY COMPANY.
- EXTEND CONDUIT TO EXISTING PG&E VAULT TO SOUTH OF SITE. TOTAL DISTANCE ~330'.
- PROVIDE 3X5" PULLBOX. PG&E TO CONFIRM EQUIPMENT IS ADEQUATE PER PG&E STANDARDS.
- PROVIDE 30"x48" TELECOM PULLBOX. TRAFFIC RATED. CONDUIT SHALL ENTER PULLBOX SIDEWALL VIA KNOCKOUTS. CITY TO CONFIRM EQUIPMENT IS ADEQUATE PER CITY STANDARDS.
- PROVIDE 120V CONNECTION FOR MOTORIZED GATE. PROVIDE SEPARATE 1.25" CONDUIT TO ACCESS CONTROL AND IT EQUIPMENT IN IT SPACE. BAY ALARM TO PROVIDE ACCESS CONTROL. CABLE. CONTRACTOR TO PROVIDE GOOSENECK. REFER TO ARCHITECTURAL/ LANDSCAPE DRAWINGS.
- PROVIDE 1" CONDUIT TO LIGHTING PULLBOX. ENSURE PATHWAY TO SOURCE PANEL IN ELECTRICAL ROOM
- PROVIDE 1" CONDUIT TO BAY ALARM EQUIPMENT LOCATED IN IT ROOM.
- PROVIDE 288 STRAND SINGLE MODE FIBER FROM CITY NETWORK IN ONE OF TWO CONDUITS. COORDINATE CONNECTION POINT ON SITE WITH CITY.
- PROVIDE PULLBOX FOR SLIDING GATE DATA CONNECTION. PROVIDE 1.25" PATHWAY FROM PULLBOX TO IT ROOM. COORDINATE TERMINATION LOCATION WITH CITY.
- PROVIDE NEW CITY STREET LIGHTS. CONTRACTOR TO COORDINATE TIE-IN POINT WITH PG&E. STREET LIGHTS TO BE INSTALLED PER CITY STANDARDS AND DETAILS. PROVIDE TRAFFIC RATED CONCRETE PULL BOX AT EACH LIGHT LOCATION PER CITY STANDARDS. PROVIDE 2" CONDUIT BETWEEN STREET LIGHT LOCATIONS AND TO PG&E CONNECTION POINT.
- PROVIDE N8 SIZE PULL BOX ADJACENT TO WALL. COORDINATE ROUTING OF WALL LIGHTING RACEWAY TO PULL BOX.
- PROVIDE N8 SIZE PULL BOX ADJACENT TO BENCH. COORDINATE ROUTING OF LIGHTING RACEWAY TO PULL BOX.
- PROVIDE 2-1" SPARE CONDUITS TO IT ROOM. TERMINATE IN NEMA 4X BOX INSIDE BARN STRUCTURE. CONDUITS FOR FUTURE EQUIPMENT. COORDINATE FINAL TERMINATION LOCATION WITH OWNER.



2 JOINT TRENCH

SCALE: NTS

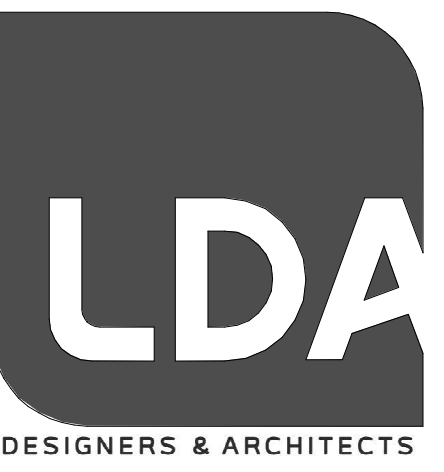


1 SITE PLAN

SCALE: 1" = 20'-0"

GENERAL SHEET NOTES

A. SITE LIGHTING SHALL COMPLY WITH LATHROP MUNICIPAL CODE MAXIMUMS. PHOTOMETRICS ARE FOR REFERENCE ONLY. FINAL FOOTCANDLE VALUES WILL VARY BASED ON SELECTED PRODUCTS AND FIELD CONDITIONS.



Architect:
LDA Partners, Inc.
Designers & Architects
222 Central Court
Stockton, CA 95204
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Project:
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801 STANFORD CROSSING
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Key Plan:

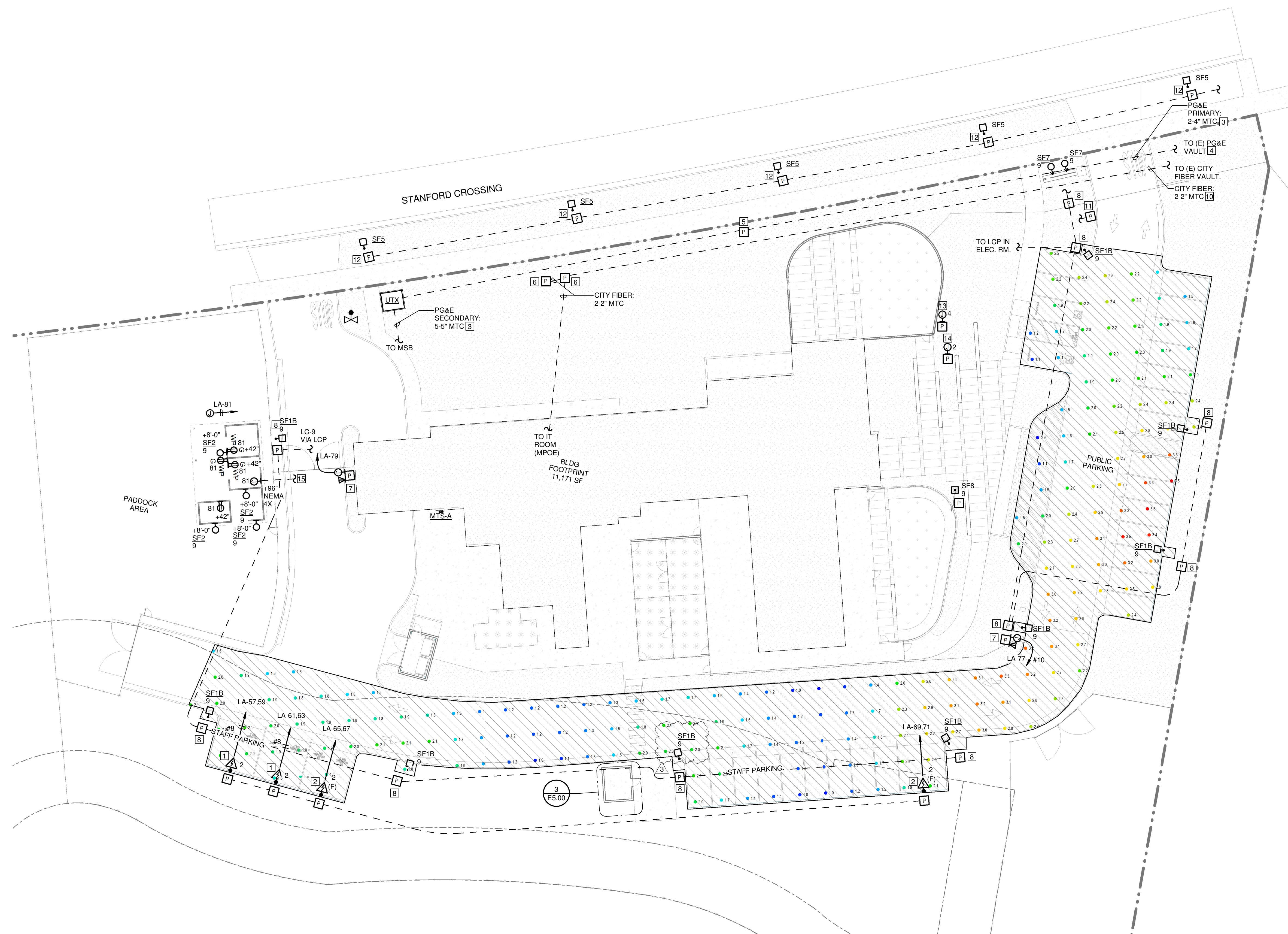
Project No.: 25084
Drawn By: AS
Checked By: SW

No.	Description	Date	By
3	Addenda #2	2026-07-10	

ADDENDA #2
7/10/2026

SITE PLAN - PHOTOMETRICS

E8.02



1 SITE PLAN - PHOTOMETRICS
SCALE: 1" = 20'-0"

ATTACHMENT B

MANDATORY PRE-BID MEETING SIGN IN SHEET – CITY OF LATHROP

Project:	Lathrop Animal Center, CIP GG 23-11	Meeting Date:	July 8, 2026	Meeting Location:	15005 Stanford Crossing
City Engineer:	Brad Taylor, PE	Chief Building Official:	Zak Karver	Construction Manager:	Leisser Mazariegos

NAME	TITLE	COMPANY	PHONE	EMAIL
KEVIN HOLTBERG	PM	T&S WEST	209-938-8419	KHOLTBERG@TANDSINC.US
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Nathaniel Kinnear	~~Estimator~~ Est Haggerty	Haggerty	209-810-8265	nathaniel@haggertybids.com
ROBERT ALLAN	SENIOR ESTIMATOR	SIMILE	209-988-7474	ralfred.grimilebuilt.com
Tanner Granada	~~Subcontract~~	DG GRANADE	530-677-7484	Bids @DGGranade.com
Ricardo Ponce	PE	CWS construction Group inc	415 209 0229	estimator@cwsconstructiongroup.com
Ante Zovich III	Bid Coordinator	Zovich Construction	925-775-4227	ante.zovich3@zovichconstruction.com
Falon Cortez	PM	W.F. Lyons	716-445-3501	fcortez@welyons.com
Emily Michelle Lujano	General Contractor	Stronger Building Services	(415) 823-6355	estimates@strongerbldg.com
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JESRAEL RAMIREZ	GC	PATRIOT CONTRACTING INC	510 850 4199	jervanirez@patriotcontracting.us

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Frances Vargas	Estimator	EG general Contracting	408 477 5157	egggeneralcontrator inc @ outlook.com
Alex Rodriguez	OWNER	A-ROD-CONSTRUCTION	209 200-1683	arodconstructiongc@gmail.com
Miguel Castellanos	Estimator	Mar Con Builders	510-934-6428	miguel@marconcompany.com
MICHAEL MASON	ESTIMATING	Diede construction INC.	209 369-8255	estimating ^(a) ~~gc~~ diiedeconstruction.com
HUAN TRUONG	ESTIMATOR	DL Falk	510-887-6500	Htruong@dlfalk.com

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Garry Wilson	COMPLIANCE	NCEC	925 321 0935	gwilson@NCEC.INFO
Juan Perez	Rep.	IBEW	209 917-6141	jperez@ibew595.org