

Addendum 001

Morgan Hill Butterfield Fire Station

Issued: May 4<sup>th</sup>, 2023

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This Addendum is issued before the award of contract to inform the bidders of revisions to the bidding documents. It shall be the responsibility of the general contractor to inform any affected sub-bidder of the content of this Addendum.

All requirements contained in the bidding documents shall apply to this Addendum, and the general character of the work called for in this addendum shall be the same as originally set forth in the applicable portions of the bidding documents for similar work, unless otherwise specified under this addendum, and all incidental work necessitated by this Addendum as required to complete the work shall be included in the bids, even though not particularly mentioned in this addendum.

This addendum is hereby made a part of the bidding documents and shall be signed and dated, submitted with bidder's proposal, and acknowledged as received on the General Contractor's Bid Proposal Form. Failure to do so may subject the Bidder to disqualification.

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I. CHANGES TO THE SPECIFICATIONS

- a. Added Specification 06 52 10 - IMPACT RESISTANT WALL PANELS
    - i. Wall panels in App Bay and noted on finish schedule (IRWP-1)
  - b. Added Specification 09 68 00 - Carpet Tiles
    - i. Carpet in noted in finish schedule (CPT-1)
  - c. Added Specification 09 72 61 - SOLID SURFACE WET WALL ASSEMBLY
    - Solid Surfaces wall panels noted in finish schedule (SSU-4 & SSU-5)
  - d. Revise Specification 12 24 00 - Roller Window Shades
    - i. Revision included blind types in bunk rooms (ROOMS-106, 107, 108)
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II. CHANGES TO THE DRAWINGS

- a. Revise Drawing Sheet C5.0
  - i. UTILITY PLAN
- b. Revise Drawing Sheet A1.1
  - i. SITE PLAN
- c. Revise Drawing Sheet A1.2
  - i. ENLARGED SITE PLAN

- d. Revise Drawing Sheet A2.1
    - i. FLOOR PLAN
  - e. Revise Drawing Sheet A2.3
    - i. REFLECTED CEILING PLAN
  - f. Revise Drawing Sheet A6.1
    - i. ROOM FINISH & FINISH SCHEDULE
  - g. Revise Drawing Sheet A7.3
    - i. DOOR AND WINDOW DETAILS
  - h. Revise Drawing Sheet A7.4
    - i. DETAILS
  - i. Revise Drawing Sheet M5.3
    - i. HVAC DETAILS
  - j. Revise Drawing Sheet P2.1
    - i. PLUMBING FLOOR PLAN
  - k. Revise Drawing Sheet E3.1
    - i. FLOOR PLAN-POWER & SIGNAL
  - l. Revise Drawing Sheet E5.1
    - i. POWER SIGNAL LINE DIAGRAM & LOW VOLTAGE
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### III. CLARIFICATION TO QUESTIONS

a. **Question:**

*For Alternate #4 on the concrete hose drying rack, detail D3/A1.3 references a drain on the civil drawings. The drain at this rack location is not shown on C5.0. Please clarify if there is to be a drain at this location and if so, if it is to be on either the base bid or included as part of alternate #4 only.*

**Response:**

**Concrete drying rack drain to be connected to underground drainage system, added drainage to be included in add alternate #4.**

b. **Question:**

*Please confirm status of PG&E application and if drawings are available. Partial scope is shown on E2.1, will need further information to finalize this pricing. If this information is not available prior to bid, please specify an allowance to carry for this aspect of work.*

**Response:**

**Bid should include all work shown on project plans.**

c. **Question:**

*Please confirm timeline to receive PG&E equipment. If equipment does not arrive within the contract duration of the project, please confirm this will fall under a delay and extension of contract time.*

**Response:**

**It will be the contractors responsibility to coordinate with PGE on timing of transformer install based on contractor schedule to complete contract required work**

d. **Question:**

*For long lead time items such as the Generator, please clarify impact on contract schedule and liquidated damages if items are received beyond 360 day contract schedule.*

**Response:**

- e. **It will be the contractors responsibility to coordinate long lead items / schedules and install based on contractor schedule to complete contract required work within the contract duration.**

f. **Question:**

*Please confirm if fire sprinklers are required at trash enclosure.*

**Response:**

**No sprinklers are required at trash enclosure.**

g. **Question:**

*At the location of the proposed covered parking structure, base bid is to include 2 pole mounted light fixtures. Alternate #1 is to remove these fixtures for the canopy. For alternate #1, is there to be any lighting to be included on the canopy structure?*

**Response:**

**No lighting at covered parking structure, add alternate #1 to include conduit and pull rope for future lighting, base bid to include 1" stub out conduit with pull rope for future lighting**

h. **Question:**

*Sheet A1.1 Note #182 calls for bollards to be per detail B3/A1.5, which shows removable bollards. There are 13 bollards shown on this plan per this note, please confirm these are all to be removable. Also, please confirm if any bollards are to be fixed per B4/A1.5.*

**Response:**

**Bollards at stand by generator to be removable, bollards at PG&E transformer to be fixed.**

i. **Question:**

*Fitment Plan A2.6 notes to reference FF&E package for owner furnished items, please provide for review. Also, please confirm if these are to be owner furnished owner installed.*

**Response:**

**Owner furnished items will be owner installed.**

j. **Question:**

*Please confirm what is to be OFCI and CFCI. For example, sheet A5.2 note #960 specifies for TV to be OFCI. This same TV on sheet A2.6 is noted as an item to be included in base bid but refers to the cut sheet package. Are items in the cut sheet package not to be CFCI? Please clarify.*

**Response:**

**TV (including blocking and wall mounting hardware) in Kitchen Dining Day room to be included in base bid. TV's in bunk rooms to be provided and furnished by owner, contractor to include blocking for wall mount attachment in base bid.**

k. **Question:**

*A6.2 door note #4 specifies keypad locks for Doors 114A, 114B, 119A, 126A. This note is not shown for Door 112A, which is to have Hardware Group 6 per the door schedule, which has a keypad lock. Please confirm if Door 112A is to have this keypad lock.*

**Response:**

**Door 112A is to receive keypad lock as outlined in specification section 08 71 00; Finish hardware, Hardware Group No. 7.**

l. **Question:**

*Shade Structure shown on architectural site plan A1.3 & detail A3/A1.5 does not appear to be coordinated with shade structure drawings and structural foundation details on S2.4. Architectural also only shows 4 columns. Please review.*

**Response:**

**Shade structure to receive (4) columns as shown on architectural plans, foundation details per detail 1/S2.4**

m. **Question:**

*At the App Bay Ceiling, please confirm if the ceiling is to have single layer drywall or 2 layers. Sections on D1/A4.3 & D1/A4.6 appear to show 2 layers but it is not specifically noted on any notes or on finish schedule A6.1.*

**Response:**

**Only one layer of gyp board needed at app bay ceilings**

n. **Question:**

*At the App Bay Ceiling, please confirm all MEPF piping/conduit is to run under ceiling exposed. Piping to be painted as noted on finish schedule A6.1.*

**Response:**

**conduit / piping under 1-3/4" to be concealed in ceiling, 2" or larger conduit/piping will be exposed and painted as noted on finish schedule**



o. **Question:**

*Please confirm if the knox boxes are to be CFCI and if so, quantity & locations.*

**Response:**

**Knock box are CFCI and to be installed at access gate and at front entrance, recessed in wall**

p. **Question:**

*Shower pans for rooms 109, 110 & 122 are noted in the spec section for toilet accessories but not shown on the plumbing plans. Please confirm these pan specs are correct for the plumber to install.*

**Response:**

**Correct shower pans are noted in section 10 28 00.**

q. **Question:**

*Notice to Bidders Item #18 Subcontract Work Limits specifies that the prime contractor must perform 15% of the work on the project except "Specialty Work". Please confirm that the 15% is to include the contractor's general conditions (On Site Supervision, Project Management, temp facilities, etc.) and is not specific to actual labor on site.*

**Response:**

**Correct.**

r. **Question:**

*Notice to Bidders Item #18 Subcontract Work Limits, please identify trades that pertain to "Specialty Work". Would this be Mechanical, Electrical, Plumbing, Fire Protection (Fire Alarm & Fire Sprinkler), Sitework (Class A License) trades?*

**Response:**

**Correct**

s. **Question:**

*Please confirm sections of the park & ride parking lot can be blocked off and used for staging and contractor parking.*

**Response:**

**Yes, portion of the park & ride can be blocked off for contractor use, contractor will need to submit a staging plan for approval prior to the start of construction.**

t. **Question:**

*Can the South-West section of the site be used for staging / site trailer? This would be between the new parking lot / fence and the Courthouse Plaza Garden.*

**Response:**

**Yes, alternate location for job site trailer can be in north portion of park & ride, contractor will need to submit a staging plan prior to start of construction.**

U. **Question:**

*Please confirm if stucco is to be cementitious or acrylic.*

**Response:**

**Cementitious**

V. **Question:**

*Please confirm if stucco is to be integral color or painted. Plans call for stucco to be painted but cut sheet package shows integral color options.*

**Response:**

**Stucco to be painted.**

W. **Question:**

*Please confirm if Kelly Moore Paint Products is considered a "comparable product" for interior and exterior paint.*

**Response:**

**Kelly Moore paint is a comparable manufacturer.**

X. **Question:**

*Please confirm quantity of paint mockups required, interior and exterior. Spec 099113 & 099123-1.04-A2 is worded in a way that if a paint mockup is provided per spec but not approved, there is no limit to how many paint mockups may be required, and notes the additional mockups would have to be provided at no cost.*

**Response:**

**This is correct. It is the contractor's responsibility to provide a match to the specified color**

Y. **Question:**

*At the App Bay Ceiling, please confirm if the drywall is to wrap around the deep Glulam Roof beams or if the beams are to be exposed. If exposed, are they to be painted the same color as the ceiling?*

**Response:**

**GLB are to be exposed and painted to match ceiling color.**

Z. **Question:**

*Please confirm what the building wrap/paper should be, 07 25 00/2.01 differs from 09 20 00/2.01/B*

**Response:**

**Grade D as specified in section 09 20 00.**

aa. **Question:**

*Please confirm if the shaded square strip in the TPO area on A2.4 is the roof walkway pad, if not, please confirm where the walkway pad is.*

**Response:**

**Shaded area as noted in sheet legend is roof walkway pad**

bb. **Question:**

*Please confirm the intent for the inside corner located between Door Marks 113A and 112A. The elevations on C1/D1 A3.1 appear show the brick terminating on this inside corner, meeting stucco. Please confirm this is the intent and how the stucco and brick will terminate into each other. D2/A4.5 shows a blowup of this inside corner.*

**Response:**

**Brick veneer to terminate into stucco reveal per detail B4/A7.3**

cc. **Question:**

*The brick and stucco shown at door section D3/A4.7 and the blowup on C3/A7.4 conflict. Please confirm stucco and brick scope at this location*

**Response:**

**Brick to terminate to stucco arch similar to detail C4/A7.3, detail has been revised to included brick veneer.**

dd. **Question:**

*Please confirm the conduit for the Solar Panels at the Carport Structure (Alternate #3) and the Building Roof (Alternate #2) are to be included in base bid.*

**Response:**

**Conduit to be included in base bid**

ee. **Question:**

*Sheet P2.1, there is a RWL shown under slab at the fitness room but shown on the site utility plan C5.0. Please clarify.*

**Response:**

**RWL connection to underground drainage to be installed outside of fire station foot print as outlined on sheet C5.0 & A2.1**

ff. **Question:**

*For the outdoor VRF units on M2.1, please clarify if the piping to these units is to be under slab or surface mounted on concrete.*

**Response:**

**Piping to VRF units is to be under slab, see details on sheet M5.3 for buried refrigeration lines.**

gg. **Question:**

*Please confirm if RB-1 rubber base height is to be 4" or 6". Spec section says height to be as indicated on drawings. Elevations and finish schedule do not appear to indicate heights*

**Response:**

**Rubber base to be 4".**

hh. **Question:**

*For the fire sprinkler riser detail shown on 2/FP0.1, the detail references a fill material below footing and refers to the structural drawings. The structural drawings do not show any information on this, please clarify.*

**Response:**

*refer to structural general notes for fill material.*

ii. **Question:**

*The fire riser location shown on FP2.1 does not match the location shown on architectural A2.1. Please confirm location.*

**Response:**

**install fire riser location as shown on sheet A2.1.**

jj. **Question:**

*Please provide specifics for the logo shown in the monument detail D3/A1.5; material, thickness, finish, etc.*

**Response:**

**Logo to be power coated aluminum with 3/4" standoffs matching the lettering. Overall logo height to be 9"**

kk. **Question:**

*Fitness flooring manufacturer doesn't appear to make 12x24 base. Please confirm its acceptable to assume cutting 24x24 tiles in half to be used as baseboard at the fitness room.*

**Response:**

**Cutting tiles is an acceptable method.**

ll. **Question:**

*Detail C3/A7.3 appears to show a small flashing just above the backer rod and sealant at the bottom exterior of window. Is that small bold turned-up flashing part of the window itself? Please clarify if there is any flashing needed there per detail, or if the flashing detail should be different at this location.*

**Response:**

**No flashing at this location, detail has been revised.**

mm. **Question:**

*Letters that are "reverse channel" are typically back lighted. I'm assuming that is what the architect intended although they didn't specifically indicate back lighting. Is this the intent?*

**Response:**

**Backlit lettering is not needed, Letters to be power coated aluminum with 3/4" standoffs.**

nn. **Question:**

*A2.1 & Interior Elevation Drawings: On the floor plan there appears to be casework in room 108, however I do not see elevation drawings for that room, Please clarify if casework similar to the other dorms will be needed in room 108 as well.*

**Response:**

**Room 108 to receive same/matching casework as other bunk rooms per finish schedules.**

oo. **Question:**

*A2.1, AB1/A5.3, & A6.1: The floor plan and elevation show casework as well as countertops for room 119, however the finish schedule does not make laminate callout for the cabinets, Please provide color selection for room 119.*

**Response:**

**Provide PL-4 finish at casework, schedule has been revised.**

pp. **Question:**

*Detail 4/M5.1 shows a ceiling cassette VRF unit mounted within a fire rated sheetrock space, but this detail with the attachment hardware, seismic restraint, and necessary connections does not seem buildable from a practical sense. Can the MEOR provide direction on how this detail can be accomplished in the field?*

**Response:**

**Install per plan**

qq. **Question:**

*Are VRF-CU-1 and 2 supposed to be next to the building, or are they to be away from the building as graphically shown on sheet M2.1? If they are to be away from the building, please provide a detail for buried refrigeration lines at those locations where the refrigeration lines will be under concrete walkway, and how they are to enter the building.*

**Response:**

**The units are to be installed in locations shown on site plans, See details on sheet M5.3 for buried refrigeration lines.**

rr. **Question:**

*Please confirm the quantity/locations of washer boxes in Decon 122. Architectural and plumbing drawings differ in quantities. Also please clarify where the drains are terminating. Plumbing plans show no waste and vent to washer boxes.*

**Response:**

**One washer box to be provided for the washer and three hose bibbs to be provided for the extractor, Waste and venting direction has been updated on sheet P2.1.**

ss. **Question:**

*Is there a water service riser detail we can reference for SOV's, PRV's ect.?*

**Response:**

**See civil plans and specs for SOV requirements.**

tt. **Question:**

*Please confirm intent and location of hopper drain*

**Response:**

**Hopper drain is to be installed next to the main fire riser, hopper drain intent is to provide drainage outlet for fire riser testing**

uu. **Question:**

*The plans do not show any piping vent or water piping to fixtures including the following, please confirm we are to assume routing*

1. *Trap primer piping*
2. *In wall waste and vent piping*
3. *Vent piping for floor drains*

**Response:**

**Routing of vent and water piping per code. Fixtures with vent, water and waste connection called out on fixture schedule. Plans not limiting routing of vent pipe and multiple Vent Thru Roof shown on plans near groups of fixtures for easy routing. Plumbing shop drawings to show exact routing of all piping. Trap primers called out on plans and detail shows how to install fixture and piping.**

vv. **Question:**

*Architectural drawings do not show curbs along interior CMU walls at trash enclosure for protection. Please review for consideration.*

**Response:**

**Trash enclosure to receive curbs, detail has been provided.**

ww. **Question:**

*Sheet A3.1 shows brick veneer on exterior at entry archways. Details on A7.4 show stucco only and no brick. Please confirm.*

**Response:**

**reference detail C4/A7.3 for brick veneer at stucco trim. Install exterior archways with brick veneer with stucco trim finish as shown on elevations, updated detail has been provided.**

xx. **Question:**

*Spec Section for Carpet missing, please provide.*

**Response:**

**Carpet manufacture, type and color outlined on finish schedule sheet A6.1, install per manufacture's recommendations. Specification section 09 68 00 CARPET TILES has been added.**

yy. **Question:**

*Downspouts/gutters on exterior elevations are shown to be MTL-3, which A6.1 notes as a factory finish. Spec 077123 notes for gutters to be painted to match stucco color finish. Please clarify.*

**Response:**

**Downspouts factory finish to match gutter system as dictated on sheet A6.3.**

zz. **Question:**

*Please provide spec for impact resistant wall panel IRWP shown on A6.1.*

**Response:**

**Section 06 52 10 Impact Resistant Wall Panels has been provided**

aaa. **Question:**

*Door contacts are noted for Hardware Groups 06 & 07 (Doors 114A, A126A, 112A, 114B). No information is provided in the specs/drawing for access controls / monitoring. Please clarify if this is in the scope of the project and if any raceways are required for wiring.*

**Response:**

**These are mechanical locksets, no raceways are required.**

bbb. **Question:**

*Please provide spec for ladders on roof A2.4 Note #502.*

**Response:**

**Install ladder per detail D1/A7.9, see section 05 11 00 for fabrication requirements.**

ccc. **Question:**

*Finish schedule for RR 109 & 110 note flooring as CNC/CT. No ceramic tile is shown on drawings/specs. Please clarify.*

**Response:**

**Floor finish is polished concrete, finish schedule has been updated**

ddd. **Question:**

*Spec 10 95 00 references corner guards but none are shown on plan. Please clarify if these are required and locations.*

**Response:**

**Corner guards are to be installed at all interior outside corner edges, floor plan has been updated.**

eee. **Question:**

*Spec 10 95 00 references bluetooth speaker but none are shown on plan. Please clarify if these are required and locations.*

**Response:**

**Speakers are located in the fitness room, provide (4) recessed ceiling mounted speakers, RCP has been updated**

fff. **Question:**

For the new storm drain line shown on C5.0 that heads South and outfalls, please confirm all existing trees/plants along this line are to be removed (not shown on the demo plans, plants/trees are visible on Google Maps).

**Response:**

**Disturbed landscape or hardscape outside of fire station campus to be replaced in kind, see disturbed landscaping note on sheet C5.0**

ggg. **Question:**

*For this storm drain line that outfalls, please confirm this line extends past the existing adjacent parking lot (no point of reference to the adjacent parking lot is shown near the outfall location). It appears there may be another concrete walkway that is required to be removed and replaced where this storm line crosses, by the end of the parking lot.*

**Response:**

**Storm drain extends past the adjacent parking lot to storm drain outfall, concrete flatwork to be replaced in kind, sheet C5.0 has been updated for scope clarification.**

hhh. **Question:**

*There are 2 RWL shown on the Trash Enclosure A1.2. Drainage plans C5.0 only shows one of them connecting to storm system. Please confirm if there is to be an additional storm line for this RWL.*

**Response:**

**Both RWL's are to be connected to underground drainage system, sheet C5.0 has been updated.**

iii. **Question:**

*Sheet A6.2 Window Note #1 calls for blackout window blinds at Window Types A & B (which is all exterior windows). Spec Section 12 24 00 calls for phifer PW4400 fabric, which is 3% openness. Please confirm fabric material and confirm shades are to be applied at every window as noted.*

**Response:**

**Shades are to be applied at all windows, bunk rooms 106, 107 & 108 to receive Light-Blocking Fabric, Specification section 12 24 00 Roller Window Shades had been updated.**

jjj. **Question:**

*Please provide spec section for SSU-4/SSU-5 bathroom wainscot materials, including installation requirements.*

**Response:**

**Specification section 09 72 61 Solid Surface Wall Panels has been added.**



kkk. **Question:**

*On the Ring Down system shown on 3/E5.2, please confirm only the panel itself is provided/installed by others and we are to provide conduit, speaker and sound attenuator as noted on this detail and as referenced on E3.1.*

**Response:**

**Ring Down system Panel itself is provided/installed by others, contractor to provide conduit, speaker and sound attenuator as noted on detail 3/E5.2 and as referenced on E3.1.**

lll. **Question:**

*E3.1, Note 2 requires buck booster transformers for the app bay door motor. What kVA are those transformers*

**Response:**

**3-phase autotransformer for coiled app bay door motor will be provided by manufacture, see updated electrical sheets E3.1 & E5.1.**

mmm. **Question:**

*Detail B1/A7.4 calls for a 3" downspout, but spec section "07 71 23 Manufactured Gutters and Downspouts" section 2.2, C. calls for 4" diameter downspouts. Which size is required?*

**Response:**

**4" downspouts are required.**

nnn. **Question:**

*There are no paddle fans shown on the M sheets or within the M sheet schedule on sheet M0.2. However, there are two different paddle fans shown in the curt sheet package (.pdf pages 41-45) and there are paddle fans that are shown graphically on sheet A2.3 reflected ceiling fan. Please confirm which Kichler exhaust fan model is to go into the 3 bunk rooms and if the 2 BigAss model es6 fans at 60" diameter are to be installed in the Fitness and Dining rooms. Plan shows a 56" fan for Fitness and Dining rooms.*

**Response:**

**Ceiling fans are architectural, not mechanical. Ceiling fans in bunk rooms are 44" Kichler with recessed wall mounted controls, BigAss model es6 fans at 60" diameter are to be installed in the Fitness and Dining rooms, see sheet A2.3 and cut sheets for clarification.**

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#### IV. ATTACHMENTS

- a. Specification sections and drawing sheet changes (16 attachment total)



END OF ADDENDUM 001

RECEIPT ACKNOWLEDGED BY:

\_\_\_\_\_  
NAME OF CONTRACTOR'S REPRESENTATIVE

\_\_\_\_\_  
NAME OF BIDDER

\_\_\_\_\_  
SIGNATURE OF CONTRACTOR'S REPRESENTATIVE

\_\_\_\_\_  
DATE

## SECTION 06 50 10

### IMPACT RESISTANT WALL PANELS

#### PART 1 – GENERAL

##### 1.01 SUMMARY

- A. Section includes:
  - a. IRWP Impact Resistant Wall Panels
  - b. IRWP Components

##### 1.03 QUALITY ASSURANCE

- A. For the purpose of establishing quality and quantity of required materials, the standard specifications of the indicated manufacturers have been cited herein except as modified. Products of other manufacturers may be proposed, provided that the material is an exact match. Substitution of other manufacturer's products shall be as specified in Section 01630.

##### 1.04 SUBMITTALS

- A. Samples:
  - 1. Submit three samples of each wall panel and accessories to be used, sufficiently sized to clearly indicate construction.
- B. Submit shop drawings clearly indicating the location of areas to receive chair rails, joint details and corner seams
- C. Submit product data for miscellaneous materials to be used in installation, including mechanical fasteners, adhesives, etc.
- D. Quality Assurance: Submit certificates from the installation contractor, attesting that the installation supervisor has had a minimum of five years experience in this type of work and will provide qualified, experienced installers to perform work. Include a list of previous jobs giving name, location, dollar value, and date, setting forth supervisor's experience.

#### PART 2 – PRODUCTS

##### 2.01 MANUFACTURER

- A. Acceptable Manufacturer: Protek Systems, Incorporated, 1250 Wallace Dr. Unit B, Delray Beach, FL 33444; Telephone: 800-598-2153, Fax: 561-395-4771, [www.proteksystem.com](http://www.proteksystem.com)
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
- C. Provide all wall coverings and wall protection from a single source.

##### 2.02 SUPER DUTY WALL COVERINGS

- A. SD-50 Super Duty Wall Covering by Protek Systems, Inc.
  - a. Material: .050-inch aluminum with super duty polyurea coating

- b. Height: As specified on drawings. 48-inch, 96-inch, and 120-inch standard heights.
- c. Construction: Provide chair rail, baseboard, and outside corners as required.
- d. Finish: range of RAL colors available.
- e. Installation: Adhesive and mechanical fasteners
- f. Custom sizes available. Other thicknesses also available.

## 2.03 COMPONENTS

- A. SD-50 Super Duty Wall Panel
  - a. Material: .050-inch aluminum with super duty polyurea coating
  - b. Size: As specified on drawings. 48-inch x 96-inch or 48-inch x 120-inch standard sheet size.
  - c. Flat wall panel
- B. SD-50-CR-2 Chair Rail
  - a. Material: 1/4-inch x 2-inch notched aluminum rectangle with super duty polyurea coating
  - b. Size: Supplied in standard lengths and cut to fit in field by installers
  - c. Chair rail edge trim. Typically used on top edge only.
- C. WPDA-60-OCG-252 Outside Corner
  - a. Material: 1/4-inch aluminum angle with super duty polyurea coating
  - b. Height: As specified on drawings
  - c. Wing Dimension: 2-inch
  - d. Outside corner trim that wall panels butt into
- D. Attachment Options
  - a. Adhesive: Field applied ADH-50 silicone sealant adhesive 9.
  - b. Fasteners: Pre-drilled holes available. Fasteners by others.

## PART 3 – EXECUTION

### 3.01 PRE-INSTALLATION REQUIREMENTS

- A. Examine substrates for moisture content and other conditions which IRWP is to be installed. Repair minor holes, cracks, depressions or rough areas using material recommended by adhesive manufacturer. Notify Contractor in writing of major conditions detrimental to proper completion of the work. Do not proceed until unsatisfactory conditions have been corrected.
  - 1. Install crack filler and floor patching compound as required to provide smooth subfloor prior to application of flooring.
- B. Clear away debris and scrape up cementitious deposits from surfaces to receive IRWP.

### 3.02 INSTALLATION

- A. Comply with manufacturers' instructions and recommendations for seam locations.
- B. Provide cut-outs where required, ensure enough room is left for equipment installation within tolerances of overlapping cover plates.
- C. Outside corners to butt seam to wall panels within a tolerance less than 1/32", seams to be sealed with clear caulking

D. Seam joints to have butt seams within a tolerance less than 1/32" seams to be sealed with clear caulking.

E. Glue-Down Installation:

1. Fit sections of IRWP into each space prior to application of adhesive.
2. Apply adhesive uniformly to substrate in accordance with manufacturer's instructions

### 3.03 CLEANING AND PROTECTION

A. Remove and dispose of debris and unusable scraps.

B. Advise Contractor of protection methods and materials needed to ensure that IRWP will be without deterioration or damage at time of substantial completion.

END OF SECTION

## **SECTION 09 68 00**

### **CARPET TILE**

#### **PART 1 – GENERAL**

##### **1.01 SUMMARY**

- A. Section includes: Carpet tile and accessories.

##### **1.02 RELATED SECTIONS**

- A. Section 09650 "Resilient Flooring".

##### **1.03 QUALITY ASSURANCE**

- A. For the purpose of establishing quality and quantity of required materials, the standard specifications of the indicated manufacturers have been cited herein except as modified. Products of other manufacturers may be proposed, provided that the material is an exact match. Substitution of other manufacturer's products shall be as specified in Section 01630.

##### **1.04 SUBMITTALS**

- A. Samples:
  - 1. Submit three samples of each carpet to be used, sufficiently sized to clearly indicate construction.
  - 2. Submit samples of transition strips in manufacturer's standard colors for selection.
- B. Submit shop drawings clearly indicating the location of areas to be carpeted, details of special treatments such as ramps, method of integrating edge strips with carpet and installation procedures.
- C. Submit product data for miscellaneous materials to be used in installation, including floor leveling material, adhesives, transition strips, etc.
- D. Quality Assurance: Submit certificates from the installation contractor, attesting that the installation supervisor has had a minimum of five years experience in this type of work and will provide qualified, experienced installers to perform work. Include a list of previous jobs giving name, location, dollar value, and date, setting forth supervisor's experience.
- E. The VOC content of adhesives and sealants used must be less than the current VOC content limits of the South Coast Air Quality Management District (SCAQMD) Rule #1168, AND all sealants used as fillers must meet or exceed the requirements of the Bay Area Air Quality Management District Regulation 8, Rule 51.

##### **1.05 ENVIRONMENTAL REQUIREMENTS**

- A. Do not commence with carpet installation until painting and finishing work is complete and ceilings and overhead work, tested, approved and completed.
- B. Maintain room temperature at minimum 60 degrees F (15 degrees C) for at least 24 hours prior to installation and relative humidity at approximately that at which the area is to be maintained.

- C. Provide sufficient lighting.

#### 1.06 REGULATORY REQUIREMENTS

- A. Carpet shall bear the Carpet and Rug Institute (CRI) Indoor Air Quality (IAQ) label. Carpet type bearing the label will indicate that the carpet has been tested and meets the criteria of the CRI Green Label requirements for indoor air quality Test Criteria.

#### 1.07 ADDITIONAL STOCK:

- A. Provide two cartons of additional carpet tile for each carpet indicated.

### **PART 2 – PRODUCTS**

#### 2.01 MATERIALS

- A. Carpet (CPT-1): Milliken, 24" x 24" modular carpet tile, style and color as indicated on drawings.
- B. Carpet Edge Guard: Rubber transition strip or Schluter Strip as indicated. Color as selected by Architect from manufacturer's standard colors.
- C. Installation Adhesive: Water-resistant, non-staining type as recommended by carpet or cushion manufacturer, and which complies with flammability requirements for installed carpet. Adhesives must comply with the VOC limits noted above.
- D. Seaming Cement: Hot-melt seaming adhesive or similar product recommended by carpet manufacturer, for taping seams and buttering cut edges at backing to form secure seams and prevent pile loss at seams.
- E. Floor Patching Compound/Underlayment: Latex type as recommended by the flooring manufacturer.
- F. Crack Filler: For concrete floor surfaces use non-shrinking cement mortar as recommended by flooring manufacturer.
- G. Moisture Sealer: As recommended by manufacturers of carpet and selected by Installer to meet project circumstance and requirements where moisture content exceeds manufacturer's allowable limits. Cost of required sealer shall be included in the contractor's bid.
  - 1. Sealer must comply with VOC limits noted above.
- H. Miscellaneous Materials: As recommended by manufacturers of carpet, cushions and other carpeting products; and selected by Installer to meet project circumstance and requirements.

### **PART 3 – EXECUTION**

#### 3.01 PRE-INSTALLATION REQUIREMENTS

- A. Examine substrates for moisture content and other conditions under which carpeting is to be installed. Repair minor holes, cracks, depressions or rough areas using material recommended by carpet or adhesive manufacturer. Notify Contractor in writing of major conditions detrimental to proper completion of the work. Do not proceed until unsatisfactory conditions have been corrected.

1. Where test results exceed manufacturer's recommended moisture limits apply sealer as specified.
  2. Install crack filler and floor patching compound as required to provide smooth subfloor prior to application of flooring.
- B. Clear away debris and scrape up cementitious deposits from surfaces to receive carpeting; vacuum clean immediately before installation. Check concrete surfaces to ensure no "dusting" through installed carpet; apply sealer where required to prevent dusting.
  - C. Sequence carpeting with other work so as to minimize possibility of damage and soiling of carpet during remainder of construction period.
  - D. Verify moisture content of floor. Where moisture content exceeds manufacturer=s recommendations install sealer in accordance with installation instructions. Do not proceed with installation of carpet until subfloor has been approved by carpet manufacturer=s representative.
    1. Where test results exceed manufacturer=s recommended limits apply sealer per sealer manufacturer's recommendations.

### 3.02 INSTALLATION

- A. Comply with manufacturers' instructions and recommendations for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile. At doors, center seams under doors; do not place seams in traffic direction at doorways.
- B. Extend carpet under open-bottomed obstructions and under removable flanges and furnishings, and into alcoves and closets of each space.
- C. Provide cut-outs where required, and bind cut edges properly where not concealed by protective edge guards or overlapping flanges.
- D. Install carpet edge guard where edge of carpet is exposed; anchor guards to substrate.
- E. Glue-Down Installation:
  1. Fit sections of carpet into each space prior to application of adhesive. Trim edges and butter cuts with seaming cement.
  2. Apply adhesive uniformly to substrate in accordance with manufacturer's instructions. Butt carpet edges tightly together to form seams without gaps. Roll entire carpet lightly to eliminate air pockets and ensure uniform bond. Remove adhesive promptly from face of carpet.
- F. Material Transition: Float concrete slab at material changes to provide smooth transition between materials. Extend float material a minimum of 4' beyond transition edge. In locations with multiple transitions float entire floor area as required to minimize changes in elevation.

### 3.03 CLEANING AND PROTECTION

- A. Remove and dispose of debris and unusable scraps.
- B. Vacuum carpet using commercial machine with face-beater element. Remove spots and replace carpet where spots cannot be removed. Remove any protruding face yarn using sharp scissors.



- C. Advise Contractor of protection methods and materials needed to ensure that carpeting will be without deterioration or damage at time of substantial completion.
- D. Maintenance Materials: Deliver additional carpet tiles to Owner's designated storage space, properly packaged (paper wrapped) and identified.

END OF SECTION

**SECTION 09 72 61**  
**SOLID SURFACE WET WALL ASSEMBLY**

**PART 1 - GENERAL**

**1.1 SECTION INCLUDES**

- A. Vertical, solid surface wall cladding for wet applications.
- B. Shower Bases
- C. Accessories

**1.2 SUBMITTALS**

- A. Refer to Section 01 33 00 Submittal Procedures.
- B. Product Data: Submit manufacturer's current product literature for each product indicated, including maintenance instructions.
- C. Samples: Provide 3 samples of the colors noted on finish schedule
- D. Shop Drawings: Include details, and attachments to other work.
  - 1. Submit shop drawings showing seams, termination points, and details of edges.
  - 2. Submit coordination drawings indicating electrical and plumbing work.
- E. Manufacturer Instructions: Provide manufacturer's written installation instructions.
- F. Installer Certification: Submit a signed copy of the installer's certificate, acknowledging the employee has been trained and approved by manufacturer.
- G. Closeout Submittals
  - 1. Refer to Section 01 71 00 Closeout Submittals

**1.3 QUALITY ASSURANCE**

- A. Installer Qualifications: Manufacturer authorized installer shall fabricate and install solid surface products, and demonstrate successful experience in installing finished carpentry items similar in type and quality to those required for this project.

#### 1.4 DELIVERY, STORAGE AND HANDLING

- A. Deliver sheets, fabricated items, materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Store solid surface products and accessories as recommended by manufacturer.

#### 1.5 WARRANTY

- A. Provide manufacturer's limited ten-year warranty against defective material and workmanship.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURER

- A. Avonite® acrylic solid surface is manufactured by Aristech Surfaces LLC; 7350 Empire Drive, Florence, KY 41042, USA; Phone 1.800.354.9858 or 859.283.1501, fax 859.283.7378; website [www.aristechsurfaces.com](http://www.aristechsurfaces.com).
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

#### 2.2 WET WALL PANEL SYSTEM

- A. Provide wet wall panel system of solid polymer components to include: panels, inside corner trim, outside finish trim. Dimensions of all components shall be standard manufacturer's dimensions to be field cut to fit. Panels shall be formed from manufacturer's standard 6mm (~1/4 inch) thick sheet product. Panels shall be full width and height with seams occurring only at the inside corners of the enclosure.

#### 2.3 PANEL MATERIALS

- A. Basis of Design: Avonite® Acrylic Solid Surface
- B. Description: Non-porous, homogeneous material maintaining the same composition throughout the part with a composition of polyester or acrylic polymer, aluminum trihydrate filler and pigment.
- C. Colors: As noted on finish schedule
- D. Vertical Wet Wall Characteristics: (solid colors)
  - 1. Thickness: 6mm
  - 2. Barcol Hardness: 59, when tested in accordance with ASTM D2583
  - 3. Elongation: 2.2%, when tested in accordance with ASTM D638

4. Tensile strength: 3,800psi, when tested in accordance with ASTM D638
5. Tensile Modulus:  $11 \times 10^5$  when tested in accordance with ASTM D638
6. Water Absorption after 24 hours: .07%, when tested in accordance with ASTM D570
7. Charpy Impact (Foot Pounds/Inch): 1.5, when tested in accordance with ASTM D6110
8. Impact Resistance 1/2 Pound: No Fracture, when tested in accordance with NEMA LD3-3.8
9. Linear Thermal Expansion:  $2.0 \times 10^{-5}$ , when tested in accordance with ASTM D696
10. High Temperature Resistance: Slight Effect, when tested in accordance with NEMA LD3-3.6
11. Boiling Water Resistance: No Effect, when tested in accordance with ISFA 2-01
12. Stain Resistance: No Effect, when tested in accordance with NEMA LD3-3.4
13. Weight per sq. ft., 6mm thickness: 2.2 pounds
14. Tensile Strength: 4,800 psi, when tested in accordance with ASTM D638
15. Flexural strength: 8,300 psi, when tested in accordance with ASTM D790
16. Modulus of Elasticity:  $1.2 \times 10^6$  psi per ASTM D790
17. High Temperature Resistance: No Effect, when tested in accordance with NEMA LD3-3.6
18. Stain Resistance: Passes, when tested in accordance with ANSI Z124
19. Flame Spread: Class A, when tested in accordance with ASTM E84

## 2.4 TRIM ACCESSORIES

- A. Provide matching inside corner trim, and outside finish trim to conceal corner sealant and provide transition from shower to wall covering.

## 2.5 OPTIONAL SOAP/SHAMPOO COMPONENTS

- A. Provide matching cast recessed shampoo/soap holder

## 2.6 INSTALLATION ACCESSORIES

- A. Panel Adhesive: Manufacturer recommended color matched adhesive
- B. Silicone Sealant: Mildew-resistant, FDA compliant, 100% clear silicone sealant

## FABRICATION

- C. Solid surface shall be factory fabricated by an authorized fabricator.
- D. Solid surface paneling and shower/tub enclosures shall be fabricated of 6mm (~1/4") thick material unless otherwise indicated.

- E. Solid surface shall be fabricated to field measurements.
- F. Cut and finish component edges with clean, sharp returns.
- G. Finished edges shall have a 1/16" radius

## PART 3 - EXECUTION

### 3.1 GENERAL

- A. Install solid surfaces in accordance with manufacturer's installation guidelines and recommendations.

### 3.2 EXAMINATION

- A. Inspect materials and location of installation for conditions affecting performance of work in accordance with shop drawings.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.3 SHOWER PAN INSTALLATION

- A. Install shower pan, plumb and level
- B. Coordinate plumbing with work of Division 22.

### 3.4 PANEL INSTALLATION

- A. Panels shall be provided to heights shown on the drawings with no horizontal seaming.
- B. Panels shall utilize the maximum panel dimension available to minimize vertical seams.
- C. Panels shall be full width and height with seams only at inside corners of enclosure.
- D. Field cut panels as required for plumbing fixtures and bath accessories.
- E. Apply quarter size dots of silicone adhesive approximately 1" inside of perimeter of solid surface panels. Apply additional dots of silicone every 8-10" apart over remaining surface. Apply hot melt glue to back of panel for temporary adhesion of panels to substrate while adhesive cures.
- F. Allow panels to cure for 24 hours, minimum, before exposure to moisture or pressure.
- G. Corner and vertical joints: Form 1/8-inch-wide joints, sealed with clear 100% silicone sealant.

### 3.5 CLEANING AND PROTECTION

- A. Remove adhesives, sealants and other stains.
- B. Protect shower/bath enclosure from damage. Repair or replace damaged work, to Architect's satisfaction.

END OF SECTION

**SECTION 12241**  
**ROLLER WINDOW SHADES**

**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 manual-operated roller shades with single rollers.

**1.3 ACTION SUBMITTALS**

- A. Product Data: For each type of product.
  - 1. Include styles, material descriptions, construction details, dimensions of individual components and profiles, features, finishes, and operating instructions for roller shades.
- B. Shop Drawings: Show fabrication and installation details for roller shades, including shadeband materials, their orientation to rollers, and their seam and batten locations.
- C. Samples for Initial Selection: For each type and color of shadeband material.
  - 1. Include Samples of accessories involving color selection.
- D. Samples for Verification: For each type of roller shade.
  - 1. Shadeband Material: Not less than 10 inches square. Mark inside face of material if applicable.
  - 2. Roller Shade: Full-size operating unit, not less than 16 inches wide by 36 inches long for each type of roller shade indicated.
  - 3. Installation Accessories: Full-size unit, not less than 10 inches long.

**1.4 INFORMATIONAL SUBMITTALS**

- A. Qualification Data: For manufacturer and installer.
- B. Product Certificates: For each type of shadeband material, signed by product manufacturer.
- C. Product Test Reports: For each type of shadeband material, for tests performed by a qualified testing agency.

**1.5 CLOSEOUT SUBMITTALS**

- A. Maintenance Data: For roller shades to include in maintenance manuals.

## 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A firm with not less than 10 years' experience regularly engaged in the production and sales of roller window shades that have been used for similar applications with successful results, that meet or exceed performance requirements indicated, and of documenting this performance by inclusion in test reports, labels, and calculations. Manufacturer shall have factory-authorized service representatives who are available for consultation, periodic Project-site observations, and on-site assistance.
- B. Installer Qualifications: A firm with not less than 5 years' experience installing roller window shades similar in material, design, and extent to that indicated for this Project, whose work has resulted in installations with a record of successful in-service performance, and that employs installers and supervisors who are trained and approved by manufacturer to perform work of this Section.

## 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roller shades in factory packages, marked with manufacturer, product name, and location of installation using same designations indicated on Drawings.

## 1.8 FIELD CONDITIONS

- A. Environmental Limitations: Do not install roller shades until construction and finish work in spaces, including painting, is complete and dry and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Field Measurements: Where roller shades are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operating hardware of operable glazed units through entire operating range. Notify Architect of installation conditions that vary from Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

## 1.9 WARRANTY

- A. Special Manufacturer's Warranty: Manufacturer's standard form in which roller shade manufacturer agrees to repair or replace roller shade hardware which fails in material or workmanship within the specified warranty period.

- 1. Warranty Period for Shade Cloth: 10 years from date of Substantial Completion.

# PART 2 - PRODUCTS

## 2.1 MANUFACTURERS

- A. Basis-of-Design Manufacturer and Products: Subject to compliance with requirements, provide the following:
  - 1. *Manufacturer: Draper Shade System or approved equal.*
- B. Source Limitations: Obtain roller shades and shadeband material from single source from single manufacturer.



## 2.2 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS

- A. Chain-and-Clutch Operating Mechanisms: With continuous-loop bead chain and clutch that stops shade movement when bead chain is released; permanently adjusted and lubricated.
  - 1. Bead Chains: Stainless steel.
    - a. Loop Length: Full length of roller shade.
    - b. Limit Stops: Provide upper and lower ball stops.
  - 2. Spring Lift-Assist Mechanisms: Manufacturer's standard for balancing roller-shade weight and lifting heavy roller shades.
    - a. Provide for shadebands that weigh more than 10 lb or for shades as recommended by manufacturer, whichever criteria are more stringent.
- B. Rollers: Corrosion-resistant steel or extruded-aluminum tubes of diameters and wall thicknesses required to accommodate operating mechanisms and weights and widths of shadebands indicated without deflection. Provide with permanently lubricated drive-end assemblies and idle-end assemblies designed to facilitate removal of shadebands for service.
  - 1. Roller Drive-End Location: Right side of inside face of shade.
  - 2. Direction of Shadeband Roll: Regular, from back of roller.
  - 3. Shadeband-to-Roller Attachment: Manufacturer's standard method.
- C. Mounting Hardware: Brackets or endcaps, corrosion resistant and compatible with roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated.
- D. Roller-Coupling Assemblies: Coordinated with operating mechanism and designed to join up to three inline rollers into a multiband shade that is operated by one roller drive-end assembly.
- E. Installation Accessories:
  - 1. Recessed Shade Pocket: Rectangular, extruded-aluminum enclosure designed for recessed ceiling installation; with front, top, and back formed as one piece, end plates, and removable bottom closure panel.
    - a. Height: Manufacturer's standard height required to enclose roller and shadeband when shade is fully open.
    - b. Provide pocket with lip at lower edge to support acoustical ceiling panel.
  - 2. Closure Panel and Wall Clip: Removable aluminum panel designed for installation at bottom of site-constructed ceiling recess or pocket and for snap-in attachment to wall clip without fasteners.
    - a. Closure-Panel Width: 2 inches.
  - 3. Where light-blocking fabric is indicated, provide the following:
    - a. Side Channels: With light seals and designed to eliminate light gaps at sides of

shades as shades are drawn down. Provide side channels with shadeband guides or other means of aligning shadebands with channels at tops.

- b. Bottom (Sill) Channel or Angle: With light seals and designed to eliminate light gaps at bottoms of shades when shades are closed.

- 4. Installation Accessories Color and Finish: Custom color to match Architect's sample.

## 2.3 SHADEBAND MATERIALS

- A. Shadeband Material Flame-Resistance Rating: Comply with NFPA 701. Testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

- B. Light-Filtering Fabric: Woven fabric, stain and fade resistant.

- 1. Source: Roller-shade manufacturer.
- 2. Roll Width: Custom, as indicated on Drawings, or if not indicated, coordinated to align with window mullions.
- 3. Openness Factor: 3%
- 4. Color: selected by Architect at time of submittal from manufactures full range of color selections
- 5. Basis-of-Design Product:
  - a. Phifer PW4400, or equal.

- C. Light-Blocking Fabric: Opaque fabric, stain and fade resistant. **(Bunk rooms room 106, 107 & 108)**

- 1. Source: Roller-shade manufacturer.
- 2. Type: PVC-free polyester yarns with an opaque acrylic backing.
- 3. Roll Width: Custom, as indicated on Drawings, or if not indicated, coordinated to align with window mullions.
- 4. Openness Factor: 0 percent (opaque).
- 5. Features: Washable.
- 6. Color: selected by Architect at time of submittal from manufactures full range of color selections
- 7. Basis-of-Design Product:
  - a. As indicated on Drawings.

## 2.4 ROLLER-SHADE FABRICATION

- A. Product Safety Standard: Fabricate roller shades to comply with WCMA A 100.1, including requirements for flexible, chain-loop devices; lead content of components; and warning labels.
- B. Unit Sizes: Fabricate units in sizes to fill window and other openings as follows, measured at 74 deg F:
  - 1. Outside of Jamb Installation: Width and length as indicated, with terminations between shades of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.
- C. Shadeband Fabrication: Fabricate shadebands without battens or seams.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

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

### 3.2 ROLLER-SHADE INSTALLATION

- A. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions.

### 3.3 ADJUSTING

- A. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

### 3.4 CLEANING AND PROTECTION

- A. Clean roller-shade surfaces after installation, according to manufacturer's written instructions.
- B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that roller shades are without damage or deterioration at time of Substantial Completion.
- C. Replace damaged roller shades that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

END OF SECTION





PROJECT:

CITY OF MORGAN HILL

BUTTERFIELD FIRE  
STATION

17285 Butterfield Blvd.  
Morgan Hill, CA 95037



DESCRIPTION: [DATE:

95% 01/16/23

CONSTRUCTION  
DOCUMENTS

100% 03/23/23

CONSTRUCTION  
DOCUMENTS

ADDEDEMU A 05/03/23

PROJECT NUMBER:

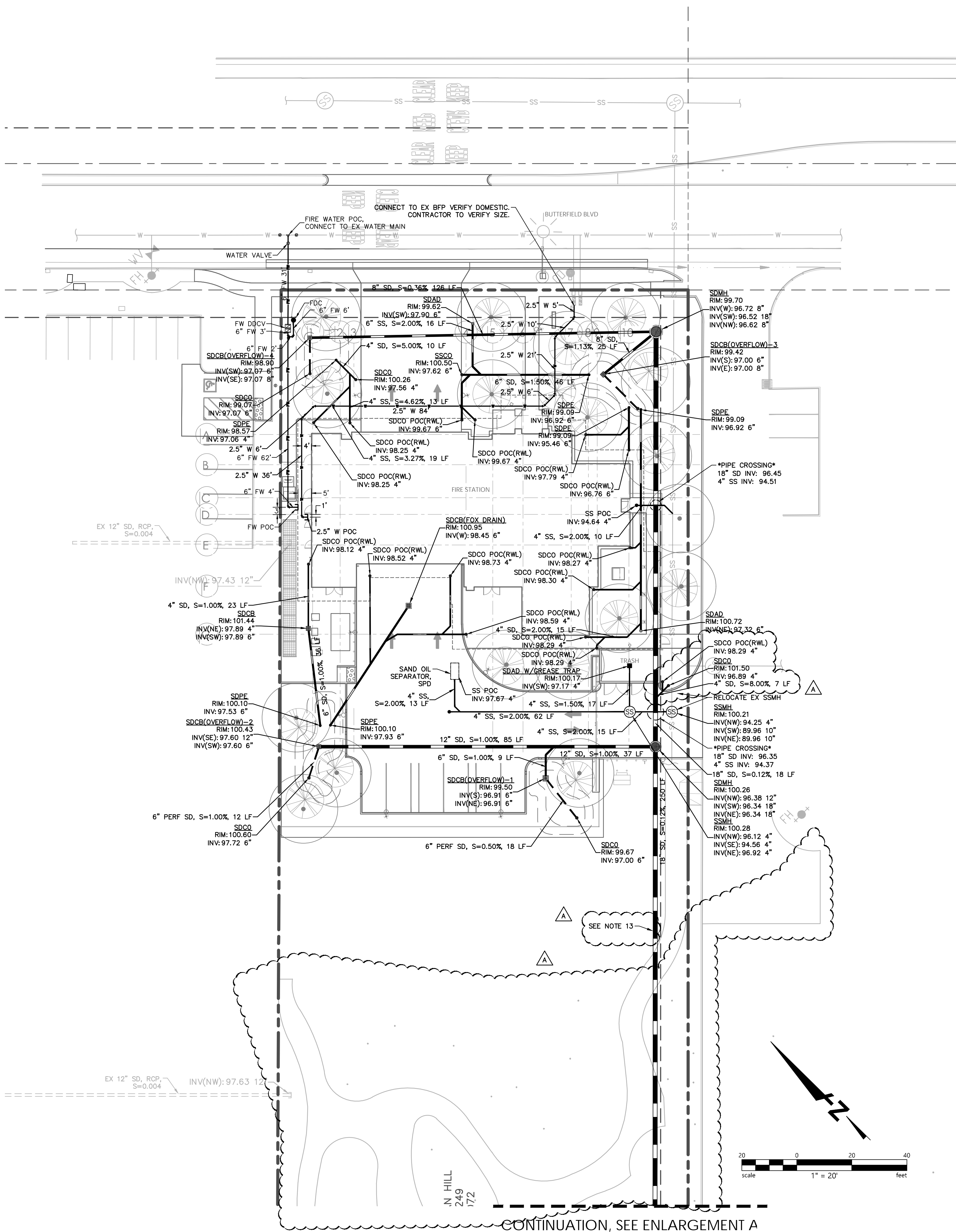
211224

SHEET TITLE:

UTILITY PLAN

SHEET NUMBER:

C5.0



CONTINUATION, SEE ENLARGEMENT A

UTILITY SCHEDULE

PIPING	
SYSTEM:	MATERIAL
WATER (DOMESTIC)	DUCTILE IRON PIPE CLASS 50
WATER (FIRE)	DUCTILE IRON PIPE CLASS 50
STORM DRAIN	PVC SDR 35
STORM SUB DRAIN/PERF PIPE	HDPE SDR 35
SANITARY SEWER	PVC SDR 26
STRUCTURES	
SYSTEM:	DETAIL
FIRE WATER	
FDC	PER DETAIL 2, C8.1
DDCV	PER DETAIL 3, C8.4
GATE VALVE	PER DETAIL 1, C8.3
STORM DRAIN	
MANHOLE	PER DETAIL 2, C8.4
CLEANOUT	PER DETAIL 8, C8.0
CLEANOUT (BIOTREATMENT)	PER DETAIL 4, C8.2
SDCB	PER DETAIL 3, C8.2
SD OUTFALL	PER DETAIL 2, C8.5
SDPE(POP-UP EMITTER)	PER DETAIL 7, C8.2
SDAD	PER DETAIL 10, C8.0
SDCB(FOX DRAIN)	PER DETAIL 1, C8.2
SANITARY SEWER	
MANHOLE	PER DETAIL 1, C8.4
CLEANOUT	PER DETAIL 8, C8.0

UTILITY NOTES:

1. PROPOSED SITE PLAN HAS BEEN SCREENED FOR CLARITY.
2. RIM ELEVATIONS FOR EXISTING UTILITY STRUCTURES SHALL BE RAISED TO PROPOSED SURFACE ELEVATIONS. EXISTING STRUCTURES LOCATED WITHIN PROPOSED VEHICULAR ROADWAY, AN H-20 TRAFFIC-RATED TOP SHALL BE USED TO REPLACE THE EXISTING TOP OF THE ADJUSTED STRUCTURE.
3. PROTECT ALL EXISTING UTILITIES AND SITE FEATURES FROM BEING DAMAGED, UNLESS OTHERWISE NOTED. ALL UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE ENGINEER.
4. THE EXISTING UTILITY LINES AND STRUCTURES SHOWN ON THESE PLANS ARE DERIVED FROM RECORD DATA, UNDERGROUND UTILITY SURVEY AND/OR SURFACE OBSERVATION AND ARE APPROXIMATE ONLY. ACTUAL LOCATION AND SIZE, TOGETHER WITH THE PRESENCE OF ANY ADDITIONAL UTILITY LINES AND STRUCTURES NOT SHOWN ON THIS PLAN, SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.
5. THRUST BLOCKS SHALL BE INSTALLED AT ALL BENDS AND TEES ON WATER MAINS & FIRE SERVICE LINES. CONTRACTOR MAY USE RESTRAIN JOINTS INSTEAD OF THRUST BLOCKS AT ALL BENDS AND TEES. CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE RESTRAIN JOINT LENGTH.
6. EXISTING UNDERGROUND UTILITIES, INCLUDING THOSE MARKED UNKNOWN, ARE BASED ON SURVEY COMPLETED BY OTHERS AND PROVIDED TO BKF ENGINEERS FOR INCLUSION IN PLANS.
7. EXISTING PIPE LINES MAY HAVE CATHODIC PROTECTION. CONTRACTOR SHALL ENSURE THAT ALL CONNECTIONS TO EXISTING PIPE LINES ARE ELECTRICALLY COMMON WITH THE PIPE LINE.
8. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
9. LENGTH OF PIPES ARE HORIZONTAL DISTANCES FROM CENTER TO CENTER OF STRUCTURES, ROUNDED TO THE NEAREST FOOT AND ARE SHOWN FOR ENGINEERING CALCULATIONS ONLY. CONTRACTOR SHALL ESTIMATE THEIR OWN PIPE LENGTHS PRIOR TO BIDDING.
10. FIRE SERVICE SIZE IS SHOWN FOR REFERENCE ONLY. FIRE SERVICE SIZE SHALL BE CONFIRMED BY A LICENSED FIRE PROTECTION ENGINEER OR DESIGN-BUILD CONTRACTOR IN CONJUNCTION WITH THE FIRE SPRINKLER SYSTEM DESIGN AND CALCULATIONS. CONTRACTOR IS CAUTIONED NOT TO ORDER ANY MATERIALS RELATED TO THE FIRE SERVICE UNTIL SAID SIZING IS CONFIRMED. IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), SHOP DRAWINGS OF THE FIRE SERVICE SHALL BE SUBMITTED TO THE AHJ BY THE INSTALLING CONTRACTOR. SHOP DRAWINGS OF THE FIRE SERVICE ARE NOT REQUIRED TO BE SUBMITTED TO THE CIVIL ENGINEER OF RECORD.
11. UTILITY TRENCHES PARALLEL TO FOUNDATIONS ARE TO HAVE A MINIMUM OF 18" INCHES CLEARANCE, SEE STRUCTURAL DRAWINGS FOR ADDED CLEARANCE AND TRENCHING DEPTHS ADJACENT TO STRUCTURAL FOUNDATIONS.
12. UTILITY TRENCHING PER DETAIL 1 ON SHEET C8.5
13. THIS PROPOSED SECTION OF STORM WATER LINE WILL RUN THROUGH AN EXISTING PARK THAT CONTAINS CONCRETE SIDEWALKS, POSSIBLE UNDERGROUND UTILITIES, TREES, AND OTHER VARIOUS SITE FEATURES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THESE FEATURES DURING CONSTRUCTION. IN THE EVENT THAT ANY OF THESE FEATURES ARE DAMAGED OR REMOVED AS A RESULT OF THE STORM WATER PIPE INSTALLATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING OR REPAIRING THE ITEMS TO THEIR PRE-CONSTRUCTION CONDITION AT THEIR OWN EXPENSE. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR THESE REPAIRS. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT OWNER TO OBTAIN ANY NECESSARY PERMITS OR APPROVALS FOR WORK WITHIN THE PARK. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS

UTILITY LEGEND

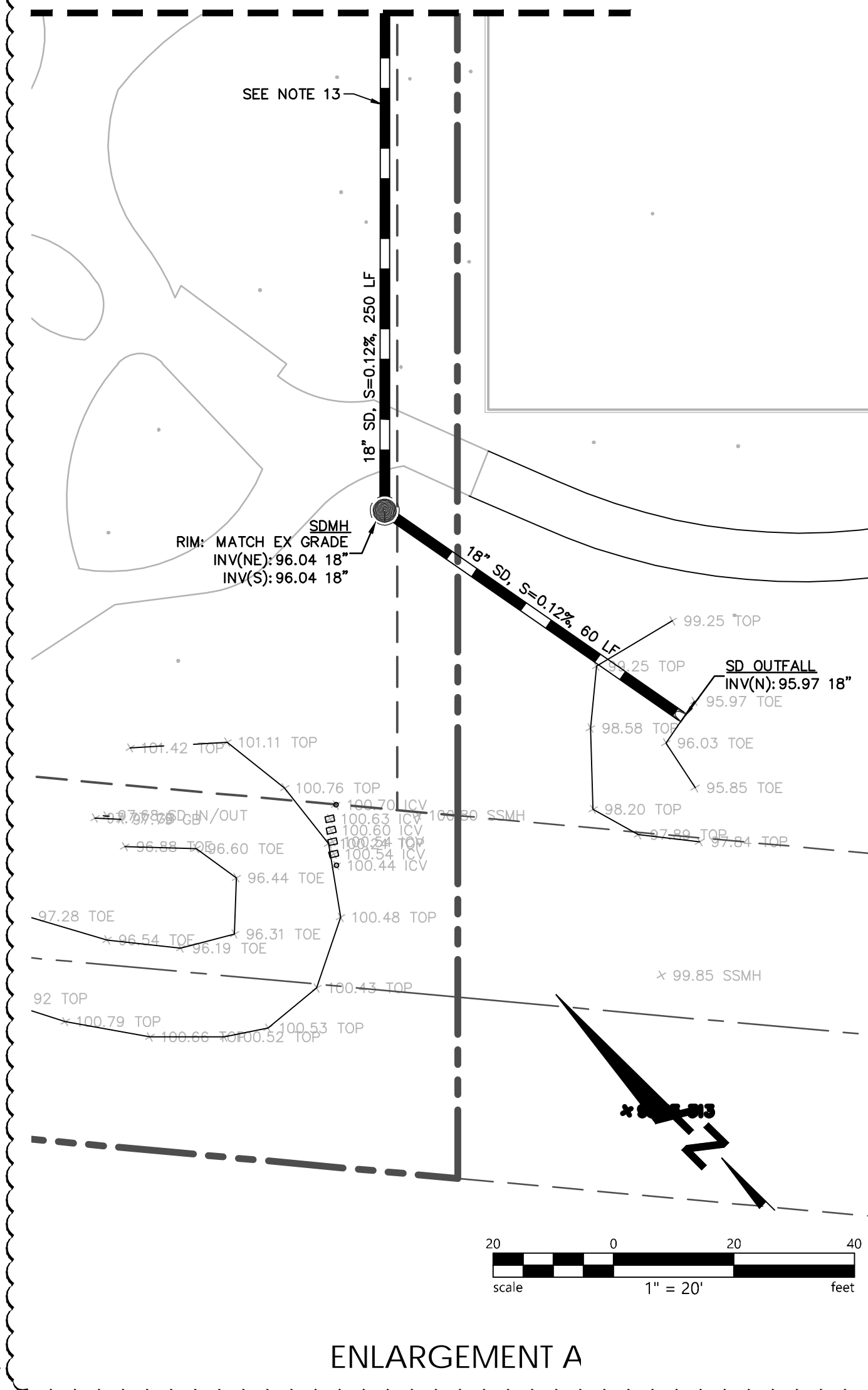
- STORM DRAIN LINE
- SANITARY SEWER LINE
- WATER LINE
- FIRE WATER
- STORM DRAIN DROP INLET
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- BACK FLOW PREVENTOR
- WATER VALVE
- FDC

DISTURBED LANDSCAPING NOTE:

The contractor should remove and dispose of shrubs and trees that conflict with the new storm drain line, and stockpile the native soil removed for the trench.  
The removed plants shall be replaced with the trees and shrub/grasses as listed below. Replacement trees and shrub/grasses shall be installed as close to the original location of the removed plants as possible whilst maintaining a 5'min (measured from center of rootball) clearance from the pipeline. The pipe trench should be backfilled with the stockpiled native soil and covered in 3" of mulch. Disturbed or removed concrete flatwork to be replaced in kind and match original walkway design.

Replacement nursery stock plants for contractor to provide:  
(1)Quercus Agrifolia - Coast live oak - 24"box  
(1)Heteromeles arbutifolia - Toyon - 15gal  
(2)Ceanothus thyrsiflorus - 5gal  
(3)Festuca Californica - 1 gal

CONTINUATION



ENLARGEMENT A





(CONSULTANT LOGO)

PROJECT:  
CITY OF MORGAN HILL

BUTTERFIELD FIRE  
STATION  
17285 Butterfield Blvd.  
Morgan Hill, CA 95037



DESCRIPTION:	DATE:
95% CONSTR. DRAWINGS	01/16/23
100% CONSTR. DRAWINGS	03/22/23
ADDENDUM A	05/05/23

NOT FOR  
CONSTRUCTION

PROJECT NUMBER:  
211101

SHEET TITLE:  
SITE PLAN

SHEET NUMBER:

A1.1

## CONSTRUCTION NOTES

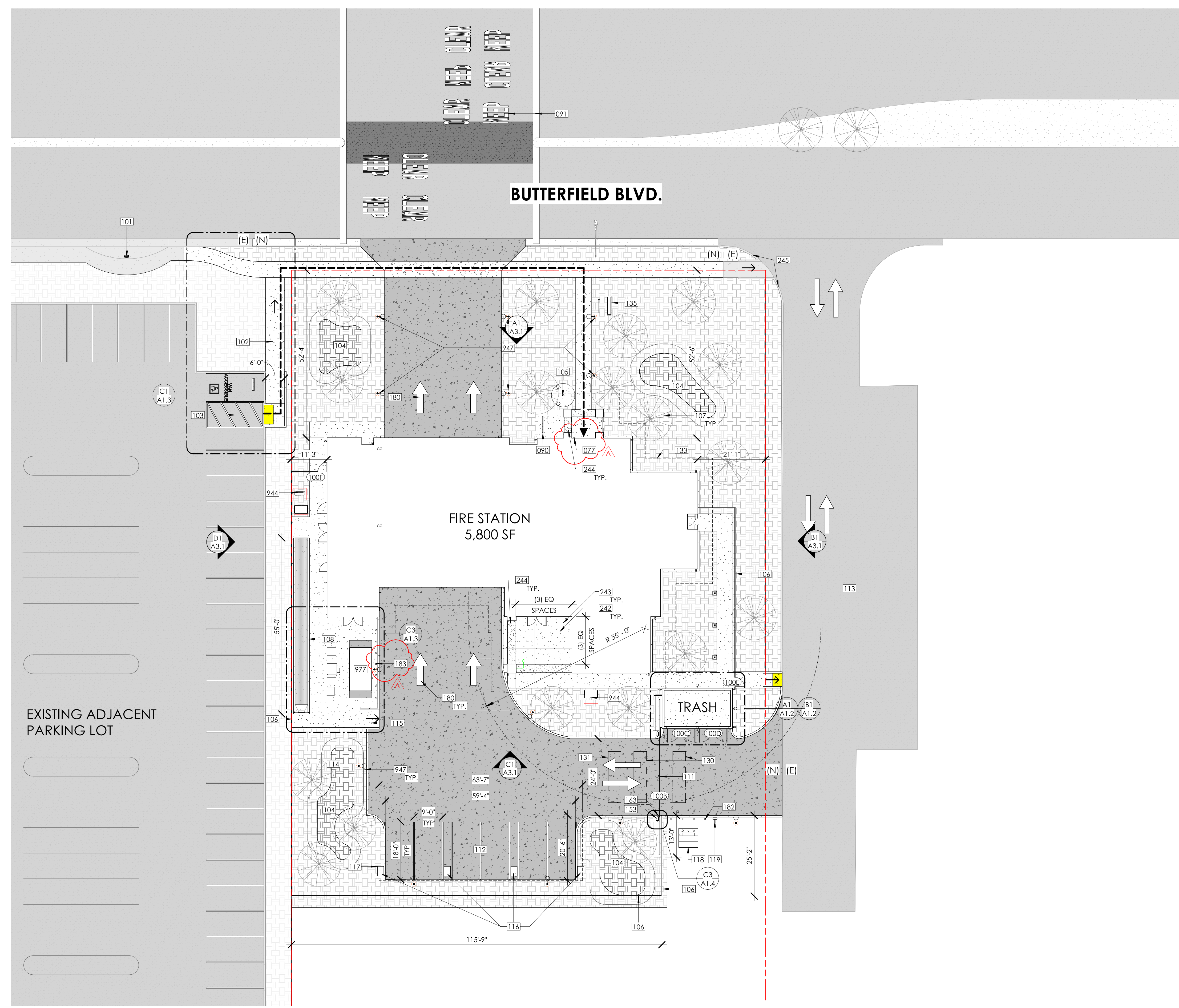
- 077 RECESSED KNOX BOX
- 090 BIKE RACK, SEE: C4/A1.5
- 091 ROAD STRIPING
- 101 EXISTING FIRE HYDRANT
- 102 ACCESSIBLE CONC. WALKWAY FROM EXISTING PARKING LOT TO EXISTING SIDEWALK
- 103 NEW STRIPING FOR VAN ACCESSIBLE PARKING SPACE AND PUBLIC PARKING
- 104 BIORETENTION AREA
- 105 35'-0" HIGH ALUMINUM FLAG POLE, SEE: D1/A1.5
- 106 STEEL ORNAMENTAL 6' HIGH FENCE
- 107 NEW TREES, SEE LANDSCAPE
- 108 HOSE DRYING RACK, SEE: D3/A1.3
- 111 ROLLING GATE, SEE: D3/A1.3
- 112 SECURE PARKING (4)
- 113 EXISTING DRIVEWAY
- 114 MICROGRID AREA
- 115 CURB RAMP
- 116 CONCRETE PIERS FOR PV SHADE STRUCTURE, SEE: A3/A1.5
- 117 SHADE STRUCTURE WITH PV PANELS, SEE ALTERNATE SECTION 01 23 00
- 118 PG&E TRANSFORMER AND PAD, SEE ELECTRICAL
- 119 KEYPAD ON PEDESTAL TO OPEN GATE, SEE: B2/A1.5
- 130 EXIT LOOP
- 131 SAFETY LOOP
- 133 LINE OF OVER EXCAVATION, SEE GEOTECHNICAL REPORT
- 135 MONUMENT SIGN, SEE: D3/A1.5
- 153 ROLLING GATE CONTROLLER ON CONCRETE PAD
- 163 KNOX KEY SWITCH AND OPTICOM SENSOR OPENING DEVICE
- 180 DIRECTIONAL ARROW ROAD STRIPING, TYP
- 182 FIXED BOLLARDS, SEE B4/A1.5
- 183 METAL BOLLARD TYP., SEE: B3/A1.5
- 240 CONTROL JOINTS
- 243 BROOM FINISH
- 244 SALT FINISH BORDER
- 245 (E) CURB
- 944 HVAC EQUIPMENT, SEE MECHANICAL
- 947 LIGHTING FIXTURE, SEE ELECTRICAL
- 977 STAND BY GENERATOR ON HOUSEKEEPING PAD, SEE ELECTRICAL

## SITE NOTES

- FIRE APPARATUS ACCESS ROAD OBSTRUCTION: AUTOMATIC GATES SHALL BE PROVIDED WITH BOTH AN OPTICOM DETECTION SYSTEM AND A KNOX KEY SWITCH OVERRIDE. PROVISIONS SHALL BE TAKEN TO OPERATE THE GATE UPON THE LOSS OF POWER.
- AT ALL DOORWAYS, VERIFY SET LEVEL OF CONCRETE
- DIMENSIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY. REFER TO CIVIL DRAWINGS FOR LOCATION COORDINATES.
- CONTRACTOR TO PROVIDE ALL REQUIRED TRENCHING AND CONNECTIONS TO EXISTING UTILITIES U.O.N. SEE CIVIL, PLUMBING, AND ELECTRICAL DRAWINGS.
- SEE ENLARGED PLANS FOR ADDITIONAL INFORMATION.
- PATCH AND REPAIR EXISTING STREET AS REQUIRED AFTER INSTALLATION OF NEW UTILITIES.
- ACCESSIBLE ROUTE FROM PARKING AND PUBLIC RIGHT OF WAY SHALL NOT EXCEED 1.5% CROSS SLOPE AND SHALL HAVE MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL OF LESS THAN 4.5%. ALL NEW WORK SHALL BE ACCESSIBLE. ALL NEW WALKWAYS SHALL CONFORM TO CBC 11B-402. PAVING MATERIALS NOT OTHERWISE NOTED SHALL BE CONCRETE.
  - CONCRETE SHALL SLOPE MIN 1/8" PER FOOT AWAY FROM BUILDINGS, SEE CIVIL DRAWINGS.
  - EXTERIOR DOOR LANDINGS SHALL SLOPE 1/4" PER FOOT MAXIMUM AWAY FROM BUILDING FOR DRAINAGE.
- REFER TO CIVIL ENGINEERING DRAWINGS FOR SIDEWALK GRADES.
- REFER TO CIVIL ENGINEERING DRAWINGS AND LANDSCAPE PLANS FOR SITE FEATURES NOT OTHERWISE INDICATED.
- PARKING AND PEDESTRIAN SITE SIGNAGE SHALL COMPLY WITH CBC SECTIONS 11B-502 & 11B-703.7.2.1.
- BUILDING SIGNAGE SHALL COMPLY WITH CBC 11B-703.
- PEDESTRIAN GATES SHALL COMPLY WITH CBC 100B.2 & 11B-206.5.
- PROVIDE PLUMBING CLEANOUT DRAINS AT ALL RWL CONNECTIONS WITHIN 60' OUTSIDE OF BUILDING'S FOOTPRINT, USE CHRISTY VALVE BOX W/ TRAFFIC RATED LID, SEE CIVIL DRAWINGS.

## SITE PLAN LEGEND

- |  |  |
|--|--|
|  | EXISTING ASPHALT, SEE CIVIL              |
|  | NEW ASPHALT, SEE CIVIL                   |
|  | EXISTING CONCRETE DRIVEWAY, SEE CIVIL    |
|  | NEW CONCRETE DRIVEWAY/PARKING, SEE CIVIL |
|  | EXISTING CONCRETE WALKWAY, SEE CIVIL     |
|  | NEW CONCRETE WALKWAY, SEE CIVIL          |
|  | NEW BIORETENTION AREA, SEE CIVIL         |
|  | NEW LANDSCAPE, SEE LANDSCAPE             |
|  | PROPERTY LINE                            |
|  | ACCESSIBLE PATH OF TRAVEL                |







(CONSULTANT LOGO)

PROJECT:

CITY OF MORGAN HILL  
BUTTERFIELD FIRE  
STATION  
17285 Butterfield Blvd.  
Morgan Hill, CA 95037



DESCRIPTION: 95% CONSTR. 01/16/23  
DRAWINGS  
100% CONSTR. 03/22/23  
DRAWINGS  
ADDENDUM A 05/05/23

NOT FOR  
CONSTRUCTION

PROJECT NUMBER:

211101

SHEET TITLE:

ENLARGED SITE  
PLANS

SHEET NUMBER:

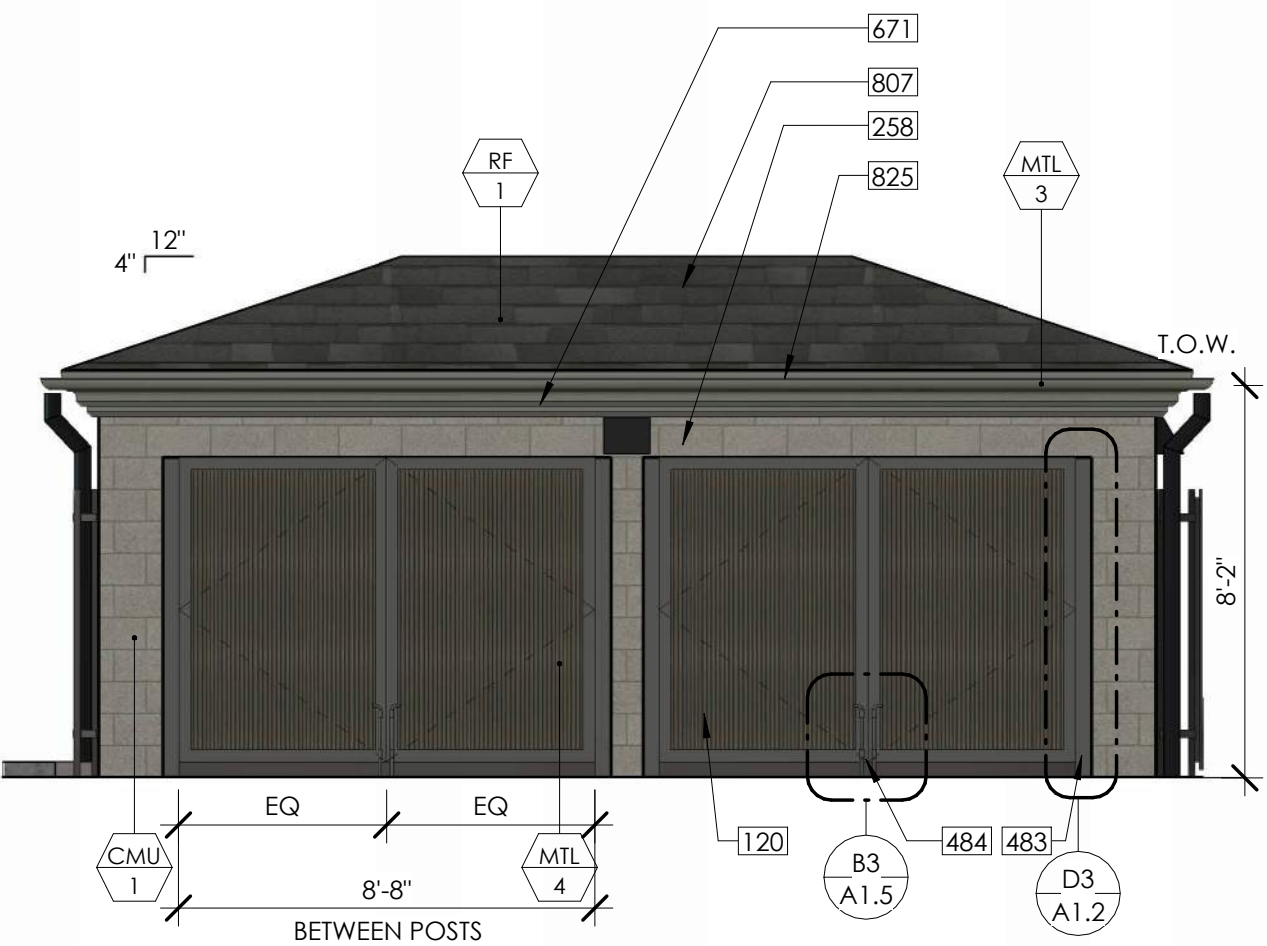
A1.2

CONSTRUCTION NOTES

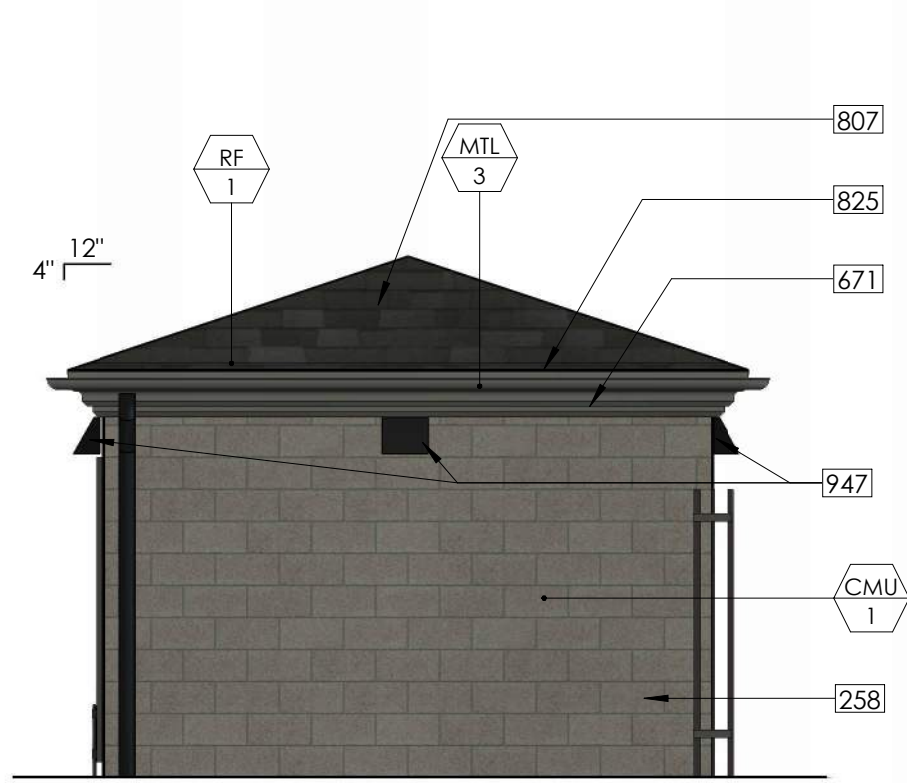
- 106 STEEL ORNAMENTAL 6' HIGH FENCE SEE: A1 / A1.5  
120 TRASH ENCLOSURE GATE  
140 CMU WALL FTG BELOW, SEE STRUCTURAL  
153 ROLLING GATE CONTROLLER ON CONCRETE PAD  
173 FINISH GRADE, SEE CIVIL  
203 CONCRETE CURB AND GATE ACCESS SLAB  
218 REBAR PER STRUCTURAL PLANS  
258 CMU BLOCK WALL, SEE STRUCTURAL  
260 POLYURETHANE BASED CONSTRUCTION ADHESIVE  
267 8" CMU WALL  
364 SHAPED RAFTER TAIL  
380 ROOF TRUSS, SEE STRUCTURAL  
483 6'-0" HIGH STEEL DOORS, HUNG INDEPENDENTLY FROM WALLS ON STEEL POSTS  
484 CANE BOLT SLEEVES FOR LOCKING DOORS IN OPEN AND CLOSED POSITION  
507 J BOLT WITH NUT AND WASHER - 8" MIN. EMBEDMENT - SOLID GROUT  
618 PREFINISHED STUCCO COAT - STYROFOAM SHAPED CORNICE  
671 STUCCO FINISHED STYROFOAM CORNICE  
741 24" SQ CONC. GATE OPERATOR PEDESTAL, FLUSH WITH TOP OF CURB  
744 4" GATE GUIDE POST  
806 ROOFING PER PLAN  
807 ASPHALT SHINGLE ROOFING  
815 RIDGE VENT  
820 RAIN WATER LEADER TYP.  
825 1/2 ROUND 6" GUTTER SYSTEM  
827 GUTTER STRAP AT 24" OC  
845 GSM FLASHING WITH DRIP EDGE  
868 WATER RESISTANT BARRIER OVER FLASHING  
919 FLOOR DRAIN, SEE CIVIL  
947 LIGHTING FIXTURE, SEE ELECTRICAL

EXTERIOR FINISH SCHEDULE

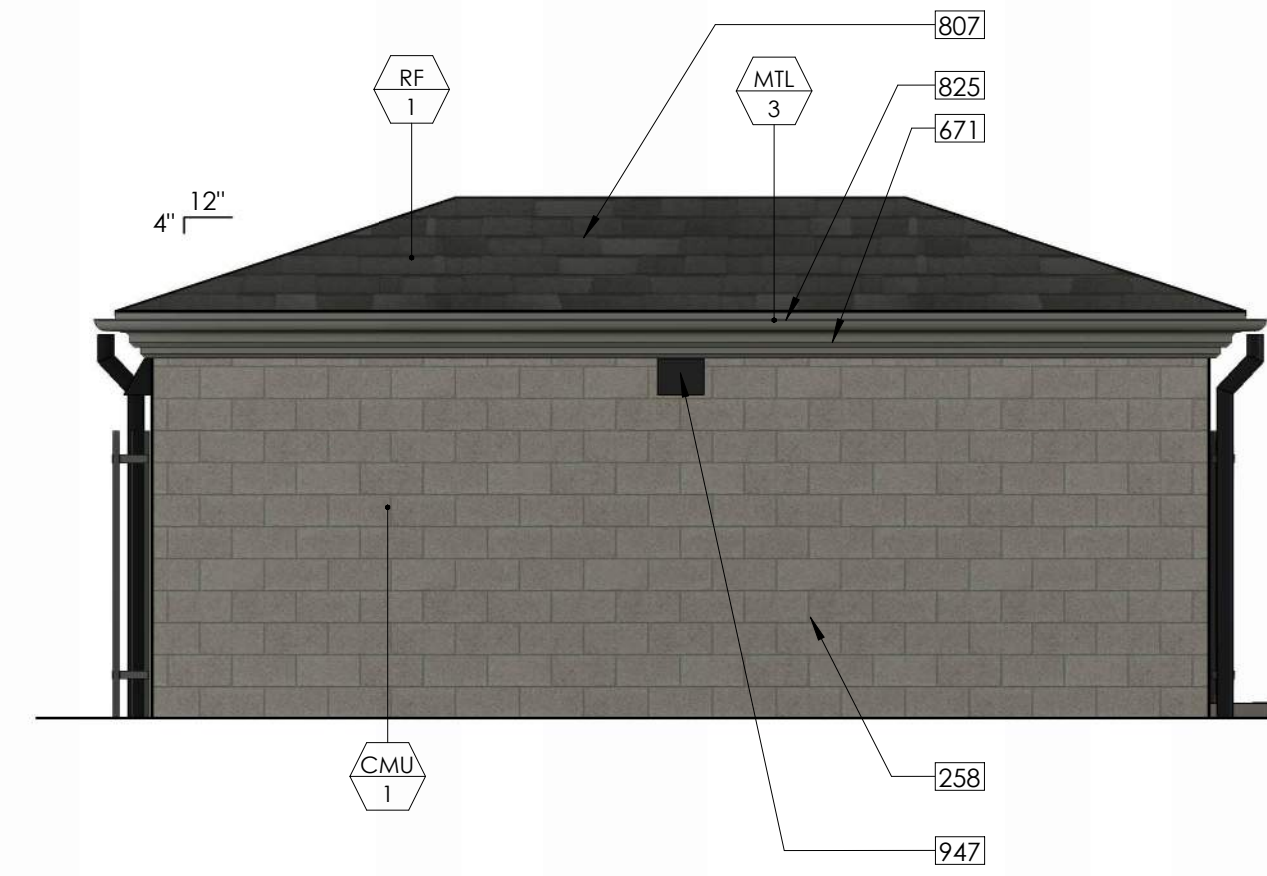
MATERIAL	TYPE	DESCRIPTION	
		NAME	COLOR
BRK	1	BRICK VENEER	SANDMOLD - TIVOLI
CMU	1	CONCRETE MASONRY UNIT	SPLITFACE -128
GL	1	GLAZING	CLEAR
MTL	1	FACTORY FINISH	DARK MEDIUM BRONZE
MTL	2	FACTORY FINISH	RAL 7013 - BROWN GREY
MTL	3	FACTORY FINISH	PPG DURANAR - NATURAL SUADE
MTL	4	FACTORY FINISH	TO MATCH PT-2
MTL	5	FACTORY FINISH	BRONZE
PT	1	PAINT	NATURE'S ESSENTIALS
PT	2	PAINT	DEEP CREEK
RF	1	ASPHALT SHINGLES	CLIFFSIDE GRAY
S	1	STUCCO	PT-1



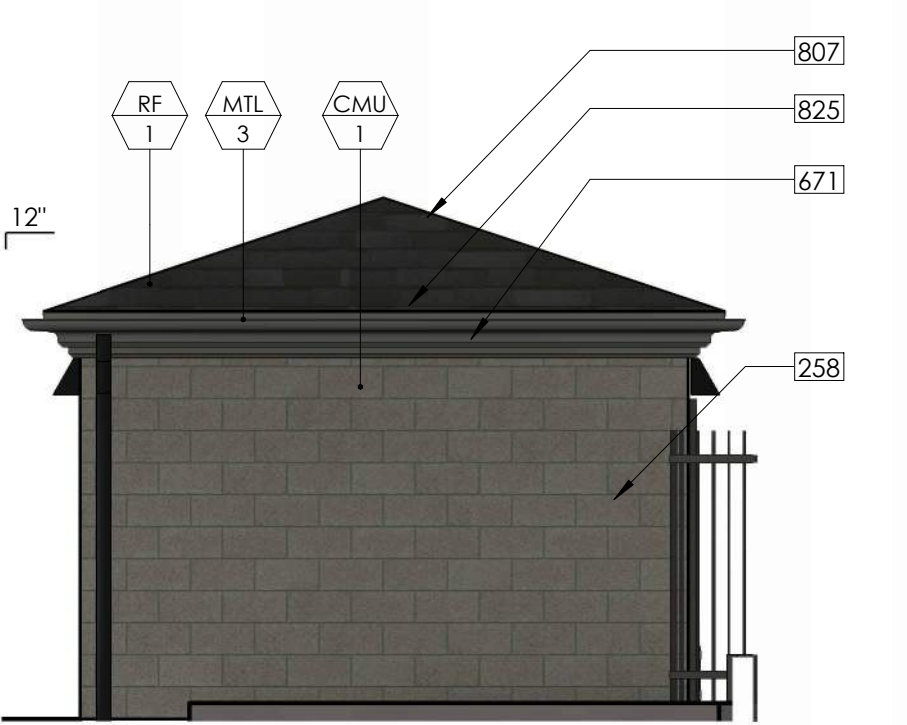
A3  
A1.2 TRASH ENCLOSURE WALL - SOUTH  
SCALE: 1/4" = 1'-0"



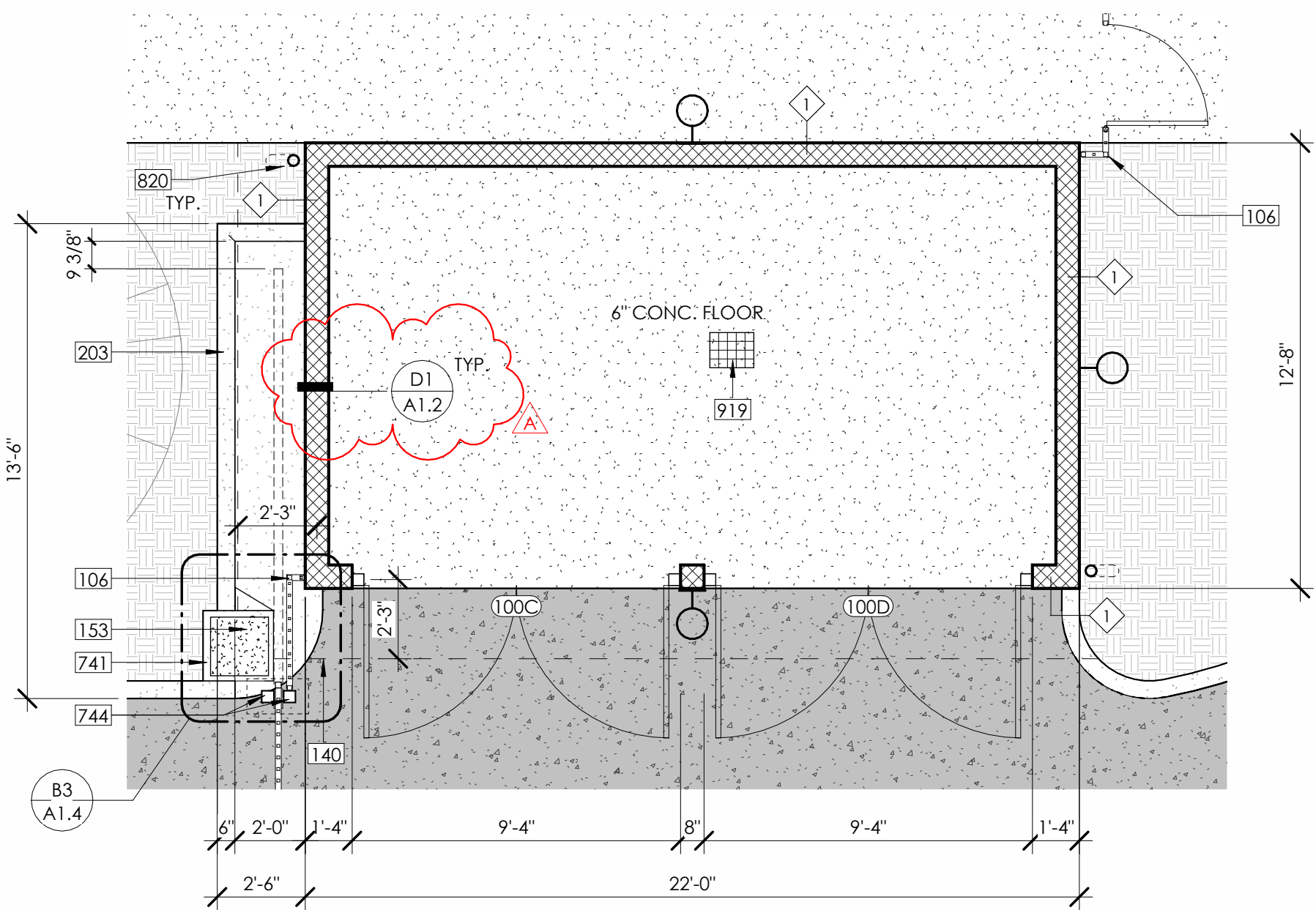
A4  
A1.2 TRASH ENCLOSURE WALL - EAST  
SCALE: 1/4" = 1'-0"



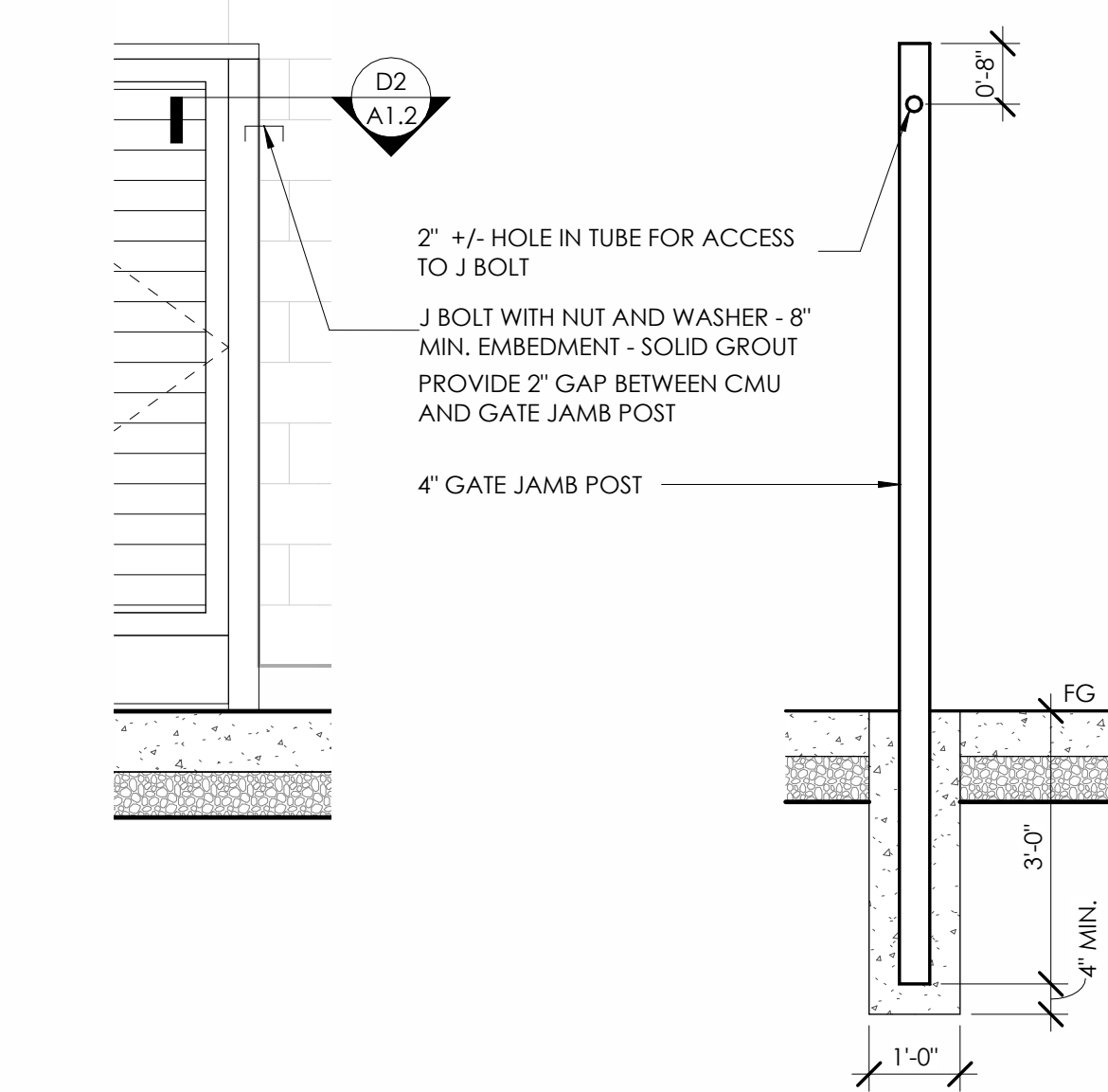
B3  
A1.2 TRASH ENCLOSURE WALL - NORTH  
SCALE: 1/4" = 1'-0"



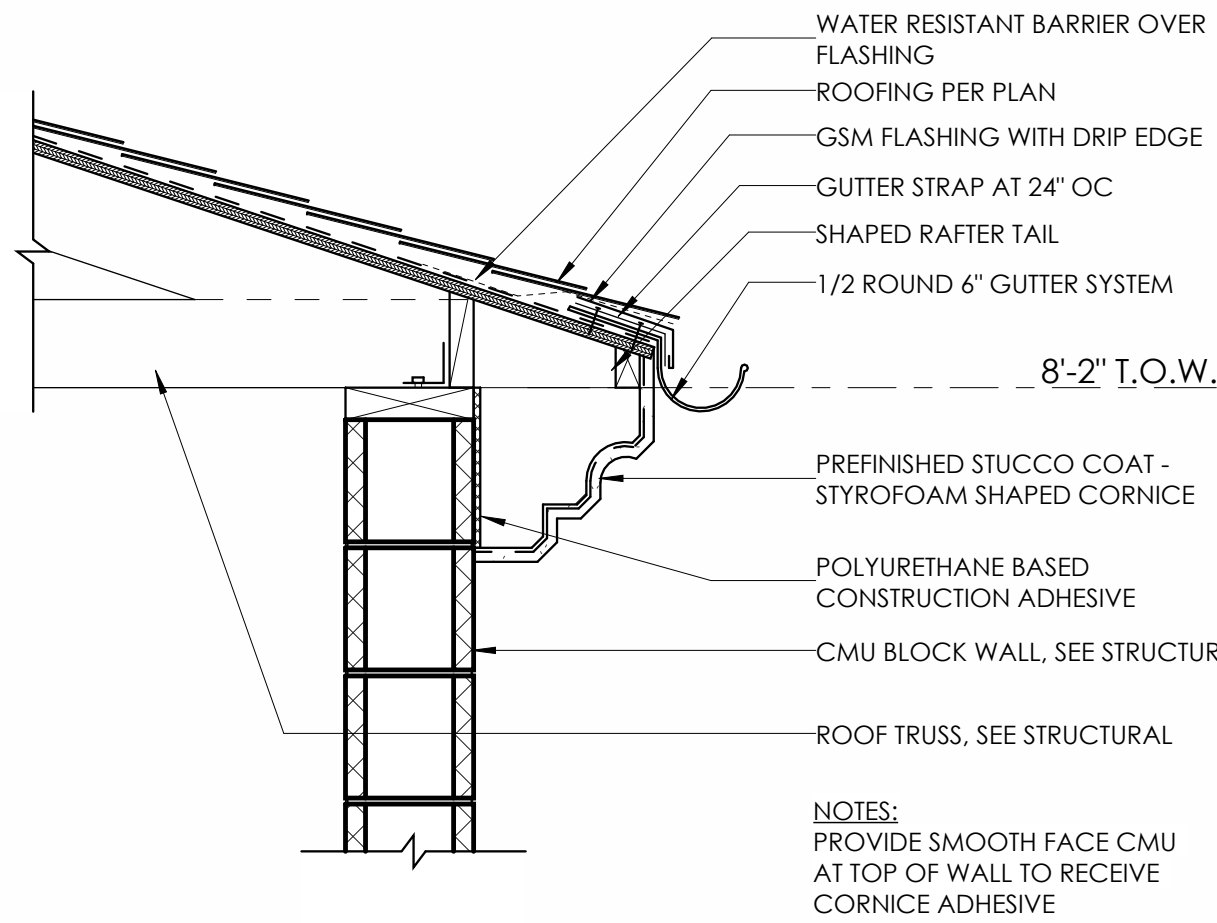
B4  
A1.2 TRASH ENCLOSURE WALL - WEST  
SCALE: 1/4" = 1'-0"



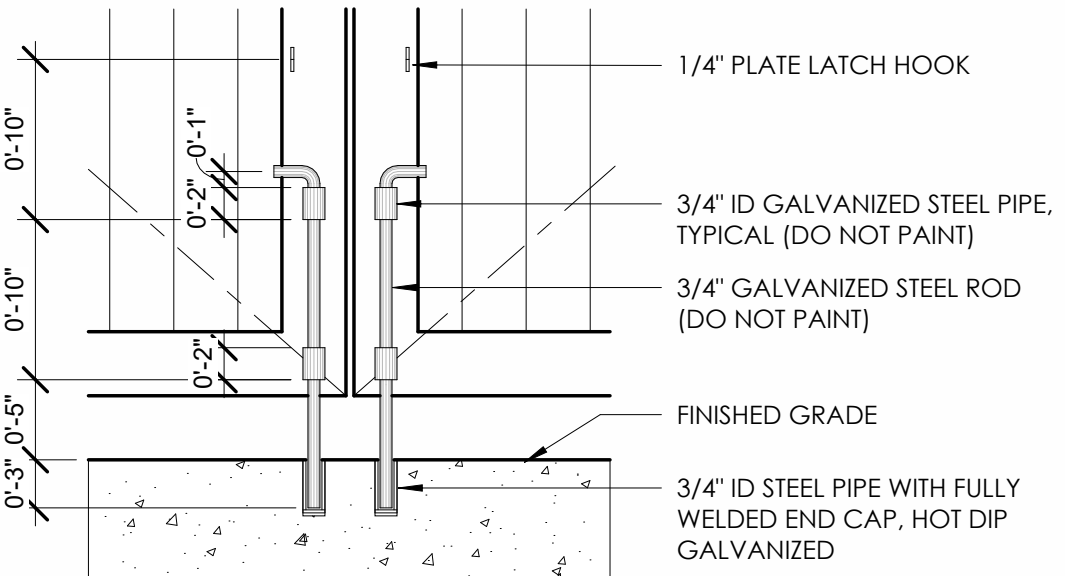
B1  
A1.2 ENLARGED TRASH ENCLOSURE FLOOR PLAN  
SCALE: 1/4" = 1'-0"



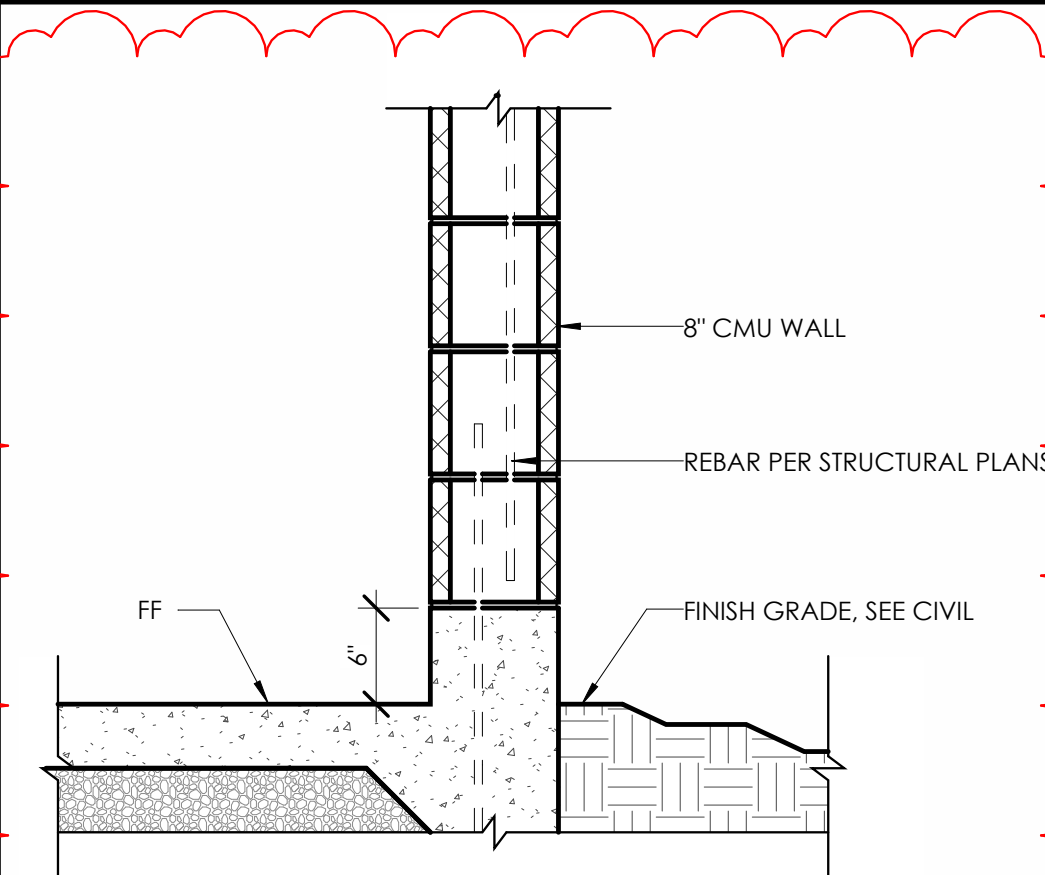
D3  
A1.2 TRASH ENCLOSURE POST HOLE DETAIL  
SCALE: 1/2" = 1'-0"



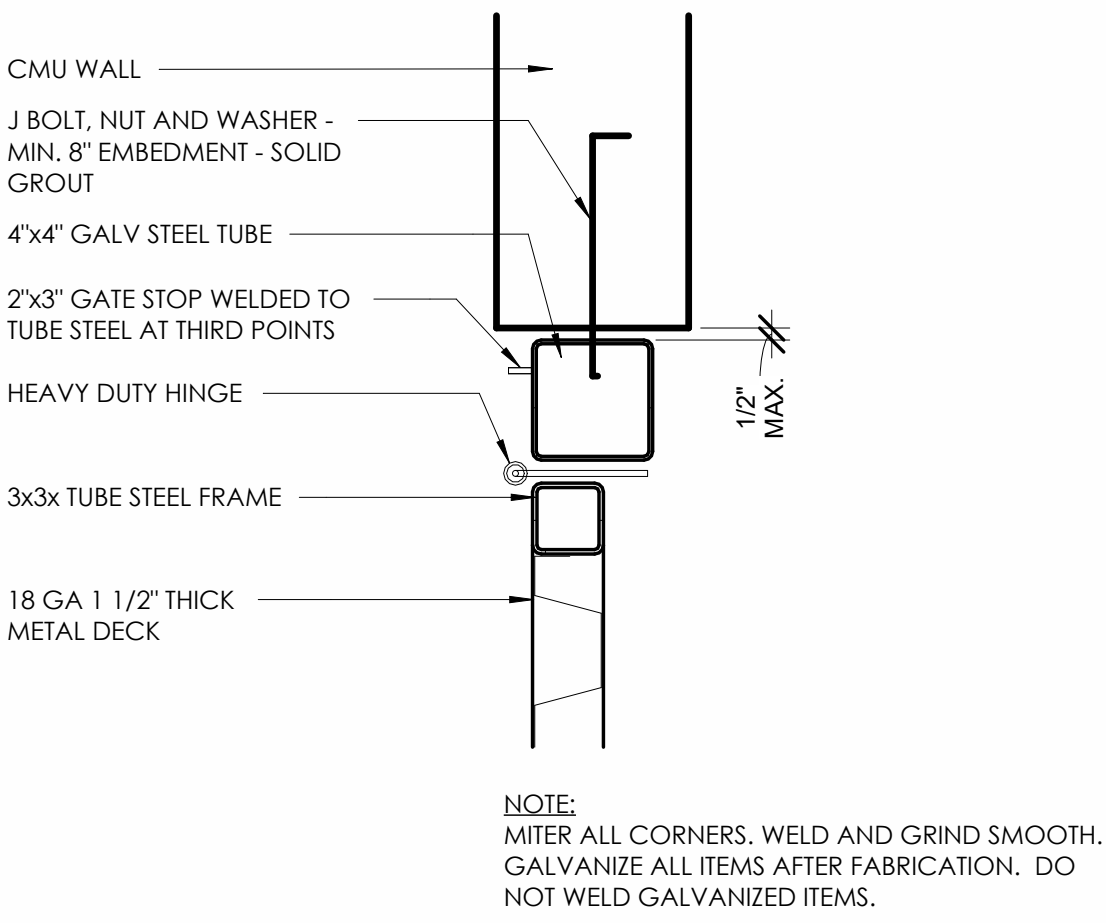
C4  
A1.2 CORNICE AT CMU  
SCALE: 1" = 1'-0"



D4  
A1.2 CANE BOLT DETAIL  
SCALE: 1" = 1'-0"



D1  
A1.2 CURB AT CMU WALL  
SCALE: 1" = 1'-0"



D2  
A1.2 TRASH ENCLOSURE GATE DETAIL  
SCALE: 1 1/2" = 1'-0"





(CONSULTANT LOGO)

PROJECT:  
CITY OF MORGAN HILL  
BUTTERFIELD FIRE STATION  
17285 Butterfield Blvd.  
Morgan Hill, CA 95037



DESCRIPTION: DATE:  
95% CONSTR. 01/16/23  
DRAWINGS  
100% CONSTR. 03/22/23  
DRAWINGS  
ADDENDUM A 05/05/23

NOT FOR CONSTRUCTION  
PROJECT NUMBER:  
211101  
SHEET TITLE:  
FLOOR PLAN

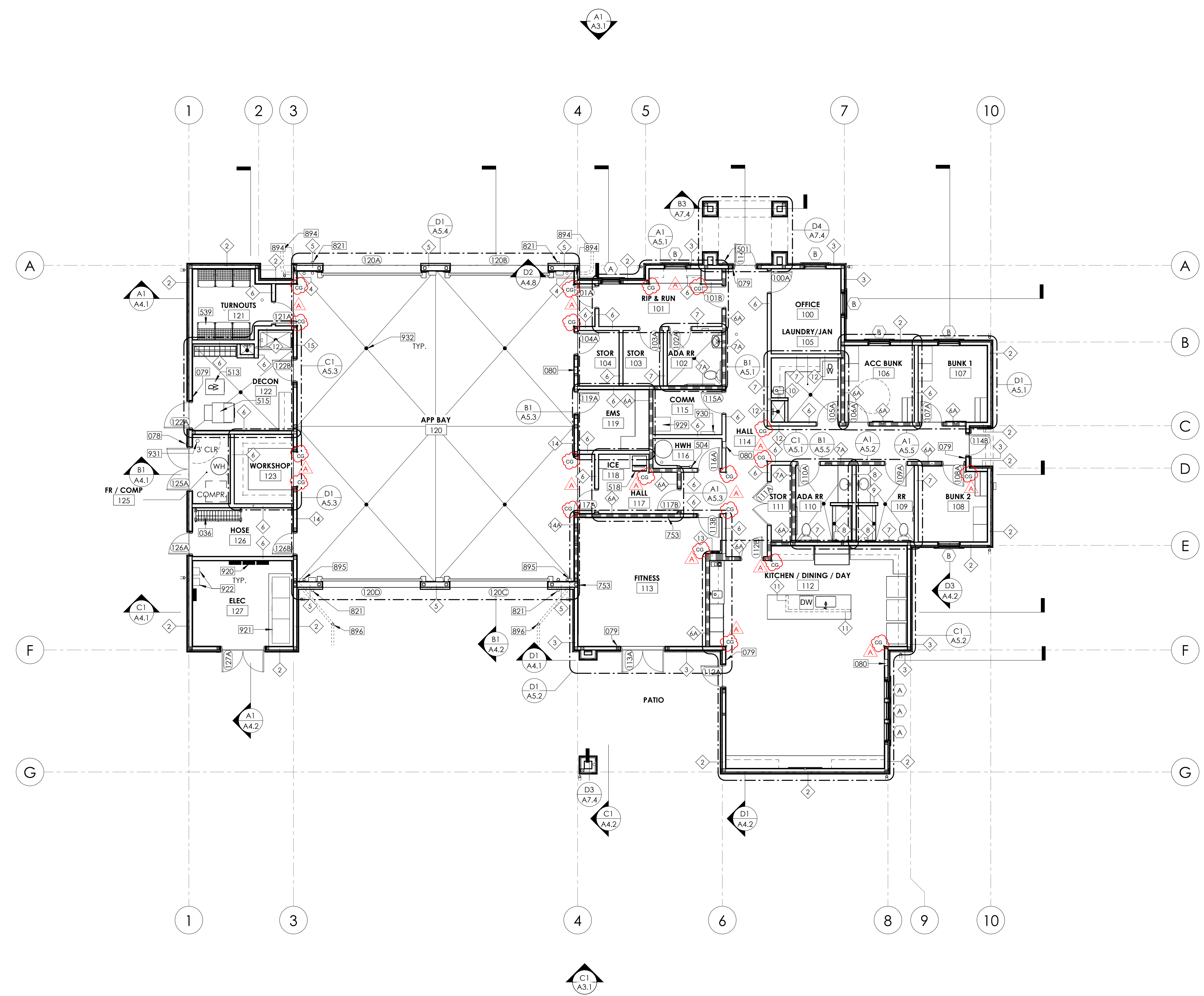
SHEET NUMBER:  
A2.1

### CONSTRUCTION NOTES

- 036 WALL MOUNTED HOSE STORAGE RACK, PROVIDE BLOCKING  
078 PROVIDE ROOM IDENTIFICATION SIGNAGE, VERIFY TEXT WITH OWNER, SEE T-6  
079 PROVIDE TACTILE EXIT SIGN, SEE SHEET T-3  
080 RECESSED FIRE EXTINGUISHER AND CABINET, SEE B1/T-4  
501 911 EMERGENCY PHONE  
504 ROOF ACCESS LADDER, SEE D1/A7.6  
513 TURNOUT DRYER  
515 LEFT-JUSTIFIED EXTRACTOR  
518 ICE MACHINE  
539 TURNOUT LOCKERS  
753 MIRROR, SEE A3/T-3  
821 ROOF OVERFLOW DRAIN PROVIDE COW TONGUE FLANGE AT EXTERIOR PENETRATION, TYP.  
894 RWL CONNECTION TO UNDERGROUND DRAINAGE  
895 CLEAN OUT ABOVE SILL PLATE  
896 CLEAN OUT IN DRIVEWAY AT SITE UNDERGROUND DRAINAGE CONNECTION  
920 ELECTRICAL PANELS, SEE ELECTRICAL  
921 MAIN SWITCHBOARD, SEE ELECTRICAL  
922 SOLAR INVERTER, SEE ELECTRICAL  
929 MAIN DISTRIBUTION FRAME, SEE ELECTRICAL  
930 FIRE ALARM CONTROL PANEL, SEE FIRE ALARM ELECTRICAL  
931 FIRE SPRINKLER RISER LOCATION, SEE PLUMBING  
932 FLOOR DRAINS, TYP. PER DETAIL C2/A7.4, SEE PLUMBING OTHERWISE

### WALL LEGEND

- X10 EXTERIOR WALL  
X12 STUD WALL W/ GYP - 1HR  
X6 STUD WALL W/ GYP - 1HR  
X6 STUD WALL W/ GYP  
X4 STUD WALL W/ GYP  
WALL TYPES, SEE SHEET A4.9 AND A4.10 FOR WALL FRAMING SIZES AND LOCATION, SEE STRUCTURAL  
CORNER GUARD







(CONSULTANT LOGO)

PROJECT:  
  
CITY OF MORGAN HILL  
  
BUTTERFIELD FIRE  
STATION  
  
17285 Butterfield Blvd.  
Morgan Hill, CA 95037



DESCRIPTION: DATE:  
95% CONSTR. 01/16/23  
DRAWINGS  
100% CONSTR. 03/22/23  
DRAWINGS  
ADDENDUM A 05/05/23

NOT FOR  
CONSTRUCTION  
  
PROJECT NUMBER:  
211101  
  
SHEET TITLE:  
REFLECTED  
CEILING PLAN

SHEET NUMBER:  
  
A2.3

CONSTRUCTION NOTES

- 452 ROOF HATCH ACCESS  
504 ROOF ACCESS LADDER, SEE D1/A7.6  
540 VEHICLE EXHAUST SYSTEM RAIL AND SUPPORTS, SEE  
626 APPLY 7/8" GYP BOARD CEILING TO UNDERSIDE OF STRUCTURE  
908 60" CEILING FAN  
909 CEILING MOUNTED EXTERIOR DOWN LIGHT ABOVE  
978 44" CEILING FAN  
987 RADIANT HEATER, SEE MECHANICAL  
989 PLYMOVENT SYSTEM, SEE MECHANICAL

RCP NOTES

1. CONTRACTOR SHALL VERIFY DIMENSIONS AND LAYOUT OF ALL FIXTURES AND EQUIPMENT WITH ARCHITECT PRIOR TO ROUGH IN. REQUEST CLARIFICATION FOR ANY DIMENSIONS NOT SHOWN.
2. PROVIDE STAINLESS STEEL ACCESS PANELS AS REQUIRED FOR MECHANICAL EQUIPMENT, SEE MECHANICAL. ACCESS TO ABOVE-CEILING MECHANICAL EQUIPMENT, SEE STRUCTURAL DRAWINGS.
3. SEE ROOM FINISH SCHEDULE FOR CEILING HEIGHTS NOT SHOWN.
4. SUSPENDED CEILING SHALL COMPLY WITH CBC.
5. EXIT SIGNS SHALL BE READILY VISIBLE FROM ANY DIRECTION OR APPROACH.
6. HEADER (DOUBLE STUDS AT JAMB) - ALL DOORS AND WINDOWS.
7. NOTES & SYMBOLS APPLY TO ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
8. PENDANT LIGHT FIXTURE LOCATION DIMENSIONS ARE NOMINAL. VERIFY IN FIELD TO MAINTAIN 45° SWING CLEARANCES TO FIXED ELEMENTS.
9. SEE ELECTRICAL DRAWINGS FOR HORNS, SPEAKERS, PULL STATIONS, LIGHT FIXTURES AND OTHER FEATURES NOT OTHERWISE SHOWN.
10. SEE ELECTRICAL DRAWINGS FOR EXIT SIGNS AND EMERGENCY LIGHTING CONDITIONS.
11. SEE MECHANICAL DRAWINGS FOR PIPING, REGISTERS, AND VENTS NOT OTHERWISE SHOWN. MECHANICAL DUCT LOCATION DIMENSIONS ARE NOMINAL. VERIFY IN FIELD TO MAINTAIN CLEARANCES TO FIXED ELEMENTS.

RCP LEGEND

- 2X2 SUSPENDED ACOUSTICAL PANEL  
CEILING AND GRID
- GYP SUM BOARD CEILING 1HR, SEE C1/A7.7
- GYP SUM BOARD CEILING, FOR DROPPED CEILING  
DETAIL SEE A2/A7.7
- 3-COAT 7/8" MIN. THICK STUCCO OVER METAL LATH  
OVER 2 LAYERS GRADE D BUILDING PAPER
- EXTERIOR WALL
- STUD WALL W/ GYP - 1HR
- STUD WALL W/ GYP
- STUD WALL W/ GYP
- LARGE CEILING PLAN
- LINEAR PENDANT LIGHT, SEE ELECTRICAL
- LED PANEL LIGHT, SEE ELECTRICAL
- LINEAR LIGHT FIXTURE, SEE ELECTRICAL
- PENDANT LIGHT FIXTURE, SEE ELECTRICAL
- RECESSED MOUNTED LIGHT, SEE ELECTRICAL
- RECESSED MOUNTED LIGHT, SEE ELECTRICAL
- RECESSED MOUNTED LIGHT, SEE ELECTRICAL
- SURFACE MOUNTED LIGHT, SEE ELECTRICAL
- SURFACE MOUNTED LIGHT, SEE ELECTRICAL
- WALL SCONCE LIGHT, SEE ELECTRICAL
- ROUND EXHAUST DUCT, SEE MECHANICAL
- SUPPLY AIR DIFFUSER, SEE MECHANICAL
- EXHAUST AIR DIFFUSER, SEE MECHANICAL
- MECHANICAL BOX, SEE MECHANICAL
- HVAC CEILING CASSETTE, SEE MECHANICAL
- RECESSED BLUETOOTH SPEAKERS





ROOM FINISH SCHEDULE																						
ROOMS		FLOOR		BASE		WAINSCOT		WALLS								CEILING			CASEWORK			
NUMBER	DESCRIPTION	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	NORTH		EAST		SOUTH		WEST		MATERIAL	COLOR	HEIGHT	COUNTERTOP	COLOR	CABINET	COLOR
								MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR							
100	OFFICE	CPT	CPT-1	RB	RB-1	-	-	GWB	PT-3	GWB/GWBFR	PT-3	GWB	PT-3	GWB	PT-3	ACT	ACT-1	9' - 0"	-	-	-	-
101	RIP & RUN	CNC	CNC-1	RB	RB-1	-	-	GWB	PT-3	GWBFR	PT-3	GWB	PT-3	GWB	PT-3	ACT	ACT-1	9' - 0"	SSU	SSU-1	PL	PL-2/PL-3
102	ADA RR	CNC	CNC-1	SSU	SSU-5	SSU	SSU-4	GWBWR	PT-3	GWBFRWR	PT-3	GWBFRWR	PT-3	GWBWR	PT-3	GWB	PT-4	10' - 0"	-	-	-	-
103	STOR	CNC	CNC-1	RB	RB-1	-	-	GWB	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-3	ACT	ACT-1	9' - 0"	-	-	-	-
104	STOR	CNC	CNC-1	RB	RB-1	-	-	GWB	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-4	10' - 0"	-	-	-	-
105	LAUNDRY/JAN	CNC	CNC-1	RB	RB-1	FRP	FRP-1	GWBWR	PT-3	GWBFRWR	PT-3	GWBWR	PT-3	GWBWR	PT-3	GWB	PT-4	10' - 0"	SSU	SSU-1	PL	PL-4
106	ACC BUNK	CPT	CPT-1	RB	RB-1	-	-	GWB-2	PT-3	GWB-2	PT-3	GWBFR-2	PT-3	GWBFR-2	PT-3	GWB	PT-4	9' - 8"	SSU	SSU-1	WD/PL	WD-1/PL-1
107	BUNK 1	CPT	CPT-1	RB	RB-1	-	-	GWB-2	PT-3	GWB-2	PT-3	GWBFR-2	PT-3	GWB-2	PT-3	GWB	PT-4	9' - 8"	SSU	SSU-1	WD/PL	WD-1/PL-1
108	BUNK 2	CPT	CPT-1	RB	RB-1	-	-	GWBFR-2	PT-3	GWB-2	PT-3	GWB-2	PT-3	GWB-2	PT-3	GWB	PT-4	9' - 8"	SSU	SSU-1	WD/PL	WD-1/PL-1
109	RR	CNC	CNC-1	SSU	SSU-5	SSU	SSU-4	GWBFRWR	PT-3	GWBWR	PT-3	GWBWR	PT-3	GWBWR	PT-3	GWB	PT-4	10' - 0"	SSU	SSU-1	-	-
110	ADA RR	CNC	CNC-1	SSU	SSU-5	SSU	SSU-4	GWBFRWR	PT-3	GWBWR	PT-3	GWBWR	PT-3	GWBFRWR	PT-3	GWB	PT-4	10' - 0"	SSU	SSU-1	-	-
111	STOR	CNC	CNC-1	RB	RB-1	-	-	GWB	PT-3	GWBFR	PT-3	GWBFR	PT-3	GWB	PT-3	GWB	PT-4	10' - 0"	-	-	-	-
112	KITCHEN / DINING / DAY	CNC	CNC-1	RB	RB-1	-	-	GWB/GWBFR	PT-3	GWB	PT-3	GWB	PT-3	GWB/GWBFR	PT-3	GWB	PT-4	10' - 0"	SSU	SSU-1	PL	PL-2/PL-3
113	FITNESS	RM	RM-1	RM	RM-1	-	-	GWB/GWBFR	PT-3	GWB/GWBFR	PT-3	GWB	PT-3	GWB/GWBFR	PT-3	GWB	PT-4	10' - 0"	-	-	-	-
114	HALL	CNC	CNC-1	RB	RB-1	-	-	GWB/GWBFR	PT-3	GWB	PT-3	GWB/GWBFR	PT-3	GWB/GWBFR	PT-3	GWB	PT-4	9' - 0"	-	-	-	-
115	COMM	CNC	CNC-1	RB	RB-1	-	-	GWBFR	PT-3	GWB	PT-3	GWB	PT-3	GWBFR	PT-3	GWB	PT-4	10' - 0"	-	-	-	-
116	HWH	CNC	CNC-1	RB	RB-1	-	-	GWB	PT-3	GWB	PT-3	GWB/GWBFR	PT-3	GWBFR	PT-3	GWB	PT-4	10' - 0"	-	-	-	-
117	HALL	CNC	CNC-1	RB	RB-1	-	-	GWBFR	PT-3	GWBFR	PT-3	GWBFR	PT-3	GWB	PT-3	ACT	ACT-1	9' - 0"	-	-	-	-
118	ICE	CNC	CNC-1	RB	RB-1	-	-	GWB	PT-3	GWBFR	PT-3	-	-	GWB	PT-3	GWB	ACT-1	9' - 0"	SSU	SSU-1	-	-
119	EMS	CNC	CNC-1	RB	RB-1	-	-	GWB	PT-3	GWBFR	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-4	10' - 0"	SSU	SSU-1	PL	PL-4
120	APP BAY	CNC	CNC-2	CNC	CNC-1	IRWP	IRWP-1	GWB	PT-3	GWB/GWBFR	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-4	18' - 0"	-	-	-	-
121	TURNOUTS	CNC	CNC-1	CNC	CNC-1	-	-	GWB	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-4	8' - 6"	-	-	-	-
122	DECON	CNC	CNC-1	CNC	CNC-1	FRP	FRP-1	GWBWR	PT-3	GWBWR	PT-3	GWBWR	PT-3	GWBWR	PT-3	GWB	PT-4	8' - 6"	SSU	SSU-1	PL	PL-4
123	WORKSHOP	CNC	CNC-1	CNC	CNC-1	-	-	GWB	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-4	8' - 6"	SSU	SSU-1	PL	PL-4
125	FR / COMP	CNC	CNC-1	CNC	CNC-1	-	-	GWB	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-4	8' - 6"	-	-	-	-
126	HOSE	CNC	CNC-1	CNC	CNC-1	-	-	GWB	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-4	8' - 6"	-	-	-	-
127	ELEC	CNC	CNC-1	CNC	CNC-1	-	-	GWB	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-3	GWB	PT-4	8' - 6"	-	-	-	-

FINISH SCHEDULE						
MATERIAL	TYPE	DESCRIPTION				LOCATION
		NAME	MANUFACTURER	STYLE	COLOR	
ACT	1	ACOUSTIC CEILING TILE	ARMSTRONG	ULTIMA	WHITE	SEE ROOM FINISH SCHEDULE
BRK	1	BRICK VENEER	MCNEAR	SANDMOLD	SANDMOLD - TIVOLI	EXTERIOR WALLS
CMU	1	CONCRETE MASONRY UNIT	BASALITE	SPLITFACE	SPLITFACE -128	TRASH ENCLOSURE
CNC	1	CONCRETE (POLISHED)		SMOOTH FINISH	NATURAL	SEE ROOM FINISH SCHEDULE
CNC	2	CONCRETE (HIGH DENSITY)		SMOOTH FINISH	NATURAL	APPARATUS BAY FLOOR
CPT	1	CARPET	MILLIKEN	NORDIC STORIES - ISOGRAD - QS	IGD122-120 SPIRTLAND	OFFICE & BUNK FLOORING
FRP	1	FIBERGLASS REINFORCED PLASTIC	CRANE COMPOSITES	LINEN TEXTURE	SOUTH BEACH IVORY	LAUNDRY/JAN & DECON
GL	1	GLAZING	VITRO		CLEAR	
IRWP	1	IMPACT RESISTANT WALL PANEL	PROTEK SYSTEMS	SD-50 SUPPER DUTY WALL SYSTEM	RAL 7002 - OLIVE GREY	APPURATUS BAY WAINSCOT AND CHAIR RAIL
MTL	1	FACTORY FINISH	ARCADIA CUSTOM	-	DARK MEDIUM BRONZE	ALUMINUM WINDOWS
MTL	2	FACTORY FINISH	HORMANN	-	RAL 7013 - BROWN GREY	OVERHEAD COILING DOORS
MTL	3	FACTORY FINISH	PPG DURANAR	-	PPG DURANAR - NATURAL SUADE	
MTL	4	FACTORY FINISH	VERCO DECK	16 GA CORRIGATED STEEL PANEL	TO MATCH PT-2	
MTL	5	FACTORY FINISH	AMERISTAR	-	BRONZE	FENCE & GATES
PL	1	PLASTIC LAMINATE	WILSONART	FINE VELVET FINISH	(4990-38) FLAX LINEN	BUNK ROOM BOX SHELF CASEWORK & COUNTERTOP
PL	2	PLASTIC LAMINATE	WILSONART	TRACELESS FINISH	(15603) SESAME VELVET ELM	UPPER CASEWORK
PL	3	PLASTIC LAMINATE	WILSONART	TRACELESS FINISH	(15602) ACORN VELVET ELM	LOWER & PANTRY CASEWORK
PL	4	PLASTIC LAMINATE	WILSONART	FINE VELVET FINISH	(4878-38) PEWTER MESH	LAUNDRY/JAN, DECON & WORKSHOP CASEWORK
PT	1	PAINT	BENJAMIN MOORE	EGGSHELL	NATURE'S ESSENTIALS	EXTERIOR FIELD PAINT
PT	2	PAINT	BENJAMIN MOORE	SEMI-GLOSS	DEEP CREEK	EXTERIOR HM DOOR & TRIM PAINT
PT	3	PAINT	BENJAMIN MOORE	EGGSHELL	MUSKOKA TRAIL	INTERIOR FIELD PAINT
PT	4	PAINT	BENJAMIN MOORE	EGGSHELL	CHANTILLY LACE	INTERIOR CEILING PAINT
PT	5	PAINT	BENJAMIN MOORE	SEMI-GLOSS	SQUIRREL TAIL	INTERIOR HM DOOR & TRIM PAINT
RB	1	RUBBER BASE	JOHNSONITE	STANDARD COVE	29 - MOON ROCK	WALL BASE
RF	1	ASPHALT SHINGLES	OWENS CORNING	DURATION COOL PLUS	CLIFFSIDE GRAY	ROOFING
RM	1	RUBBER MAT	TARKETT	TRIUMPH SPORTS FLOORING (3/8 ")	LB9 - RAINSTORM	FITNESS FLOOR & WALL BASE
S	1	STUCCO			PT-1	STUCCO COLOR
SSU	1	SOLID SURFACE	CORIAN	1/2" THICK	RAIN CLOUD	OVERALL COUNTERTOPS
SSU	2	SOLID SURFACE	CORIAN	1/4" THICK	RAIN CLOUD	COUNTERTOP BACKSPLASH
SSU	3	SOLID SURFACE	SWANSTONE	-	WHITE (010)	SHOWER PAN
SSU	4	SOLID SURFACE	AVONITE	1/4" THICK	WHITE	WAINSCOT & FULL PANEL WALL
SSU	5	SOLID SURFACE	AVONITE	1/2" THICK	WHITE	4" HIGH RESTROOM WALL BASE
WD	1	WOOD	-	ROTARY CUT WHITE BIRCH	CLEAR	BUNK CASEWORK
WD	2	WOOD DOOR	MASONITE ARCHITECTURAL	ASPIRO SERIES ROTARY CUT WHITE BIRCH	COCOA BEAN	WOOD DOORS

FINISH NOTES

- ① PROVIDE SD-50 HEAVY DUTY WALL PANELS AS INDICATED ON INTERIOR ELEVATIONS
- ② PROVIDE 12" HIGH RUBBER MAT BASE
- ③ REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION
- ④ SACK AND PATCH CONCRETE CURB TO PROVIDE SMOOTH FINISH WITH UNIFORM COLOR WHERE EXPOSED SEAL, CONCRETE SLAB AND CURB
- ⑤ PAINT ALL EXPOSED PIPING AND EXHAUST DUCT WORK
- ⑥ PROVIDE BLOCKING FOR STORAGE SHELVING SYSTEMS OR WALL HUNG EQUIPMENT



(CONSULTANT LOGO)

PROJECT:

CITY OF MORGAN HILL  
  
BUTTERFIELD FIRE STATION  
  
17285 Butterfield Blvd.  
Morgan Hill, CA 95037



MATERIAL LEGEND

ABBR	DESCRIPTION	DESCRIPTION:	DATE:
ACT	ACOUSTIC CEILING TILES	95% CONSTR.	01/16/23
BRK	BRICK VENEER	DRAWINGS	
CNC	CONCRETE (SEALED)		
CPT	CARPET	100% CONSTR.	03/22/23
CMU	CONCRETE MASONRY UNIT	DRAWINGS	
CT	CERAMIC TILE		
EXP	EXPOSED STRUCTURE	ADDENDUM A	05/05/23
EL	ELASTOMETRIC DECK COATING		
FRP	FIBERGLASS REINFORCED PLASTIC		
GL	GLAZING		
GWB	GYPSUM WALL BOARD 5/8" UON		
GWB-2	GYPSUM WALL BOARD, SOUND ABSORBENT		
GWBFR	GYPSUM WALL BOARD, FIRE RESISTANT (5/8") TYPE-X		
GWBFR-2	GYPSUM WALL BOARD, FIRE RESISTANT (5/8") TYPE-X / SOUND ABSORBANT		
GWBFRWR	GYPSUM WALL BOARD, FIRE RESISTANT (5/8") TYPE-X / WATER RESISTANT		
GWBWR	GYPSUM WALL BOARD, WATER RESISTANT (5/8")		
IRWP	IMPACT RESISTANT WALL PANEL		
JMTL	METAL (FACTORY FINISH)		
PL	PLASTIC LAMINATE		
PT	PAINT		
PLYWD	1/2" PLYWOOD, PAINTED		
RB	RUBBER BASE		
RM	RUBBER MAT		
RF	ASPHALT SHINGLE ROOFING		
SM	SHEET METAL		
SSU	SOLID SURFACE		
SS	STAINLESS STEEL		
STN	STAIN (WOOD)		
S	STUCCO - PORTLAND CEMENT PLASTER		
VCT	VINYL COMPOSITION TILE		
WD	WOOD		

NOT FOR CONSTRUCTION

PROJECT NUMBER:  
211101

SHEET TITLE:  
ROOM FINISH & FINISH SCHEDULE

SHEET NUMBER:

A6.1





(CONSULTANT LOGO)

**PROJECT:**  
  
CITY OF MORGAN HILL  
  
BUTTERFIELD FIRE STATION  
  
17285 Butterfield Blvd.  
Morgan Hill, CA 95037



DESCRIPTION:	DATE:
95% CONSTR. DRAWINGS	01/16/23
100% CONSTR. DRAWINGS	03/22/23
ADDENDUM A	05/05/23

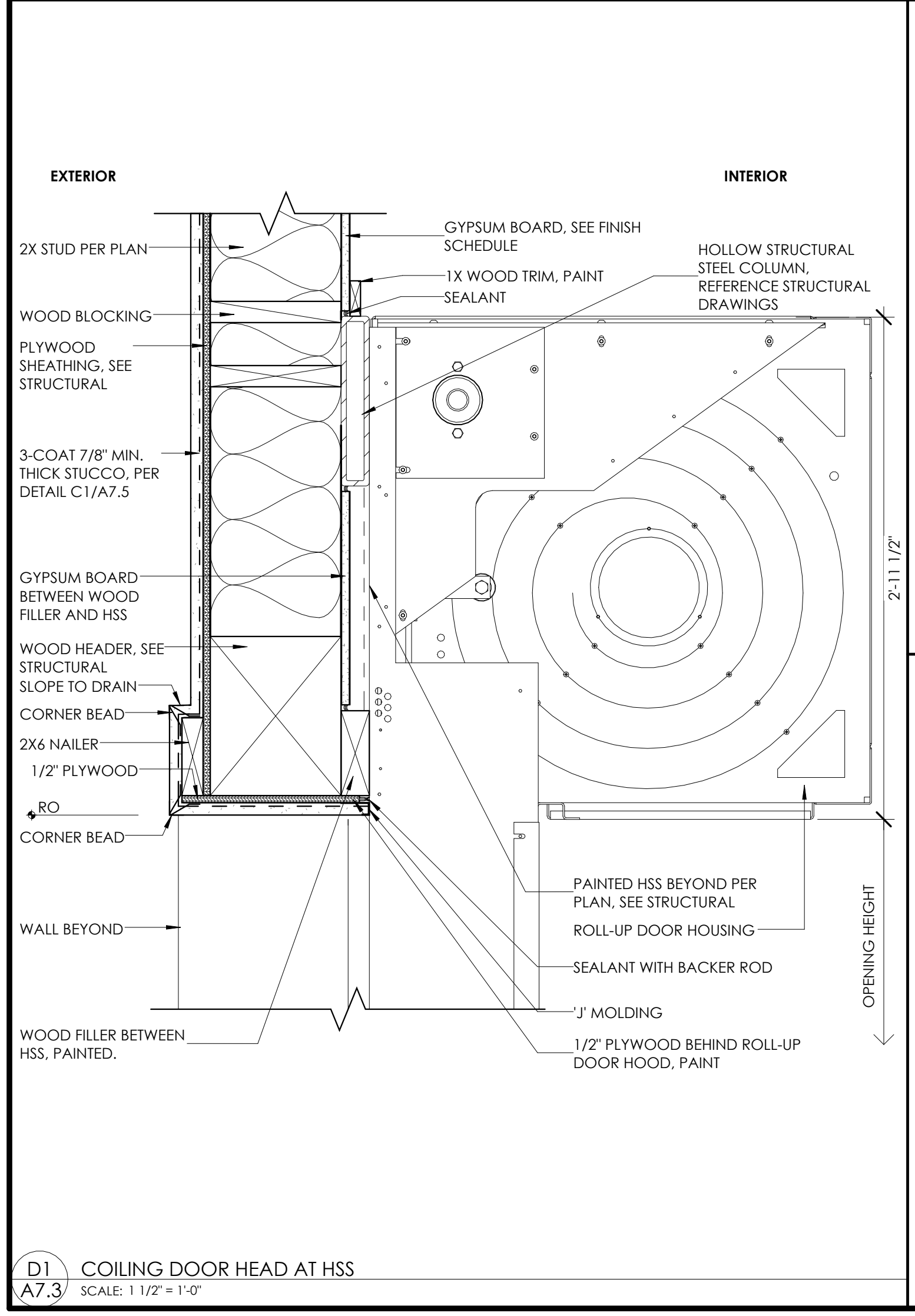
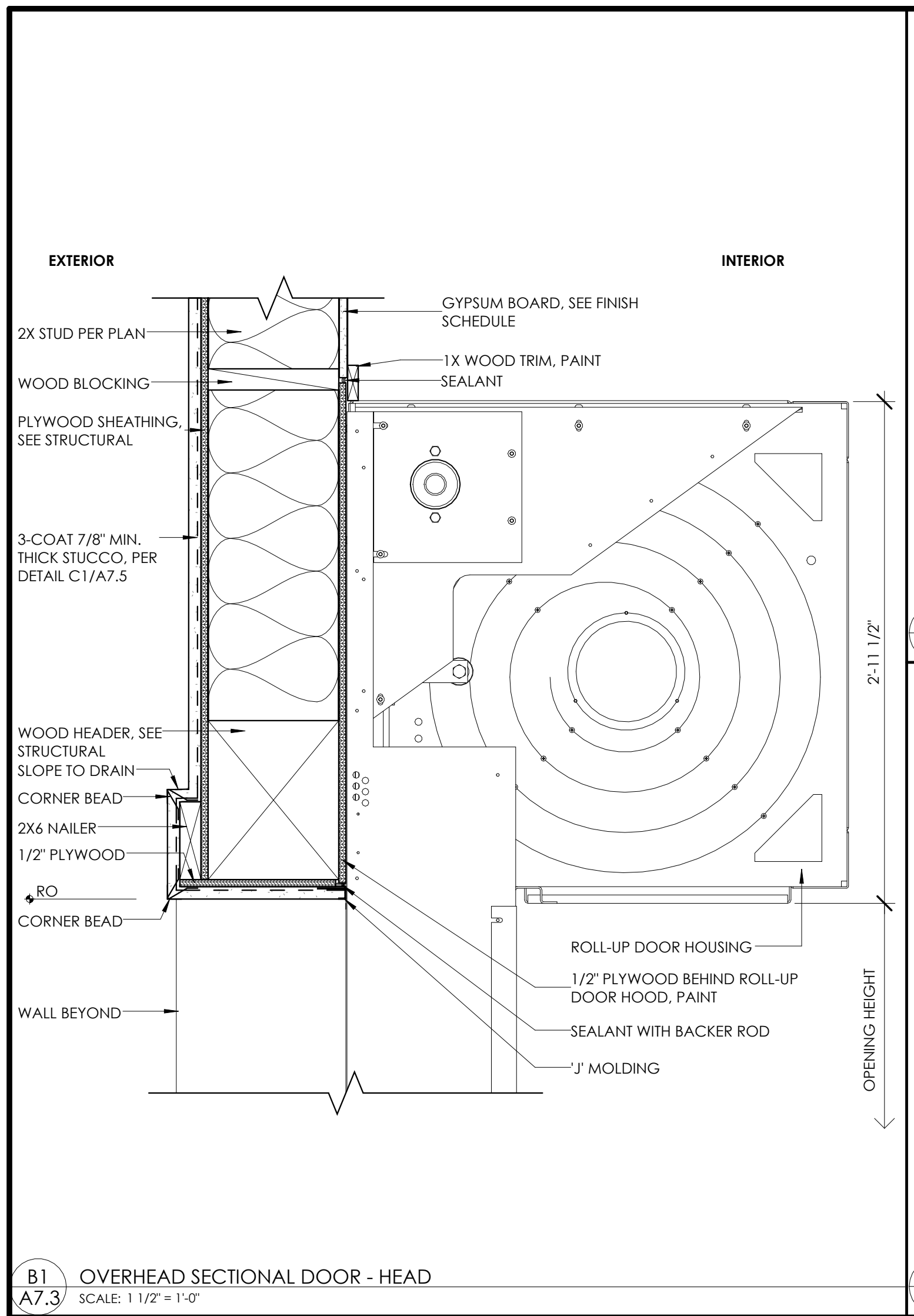
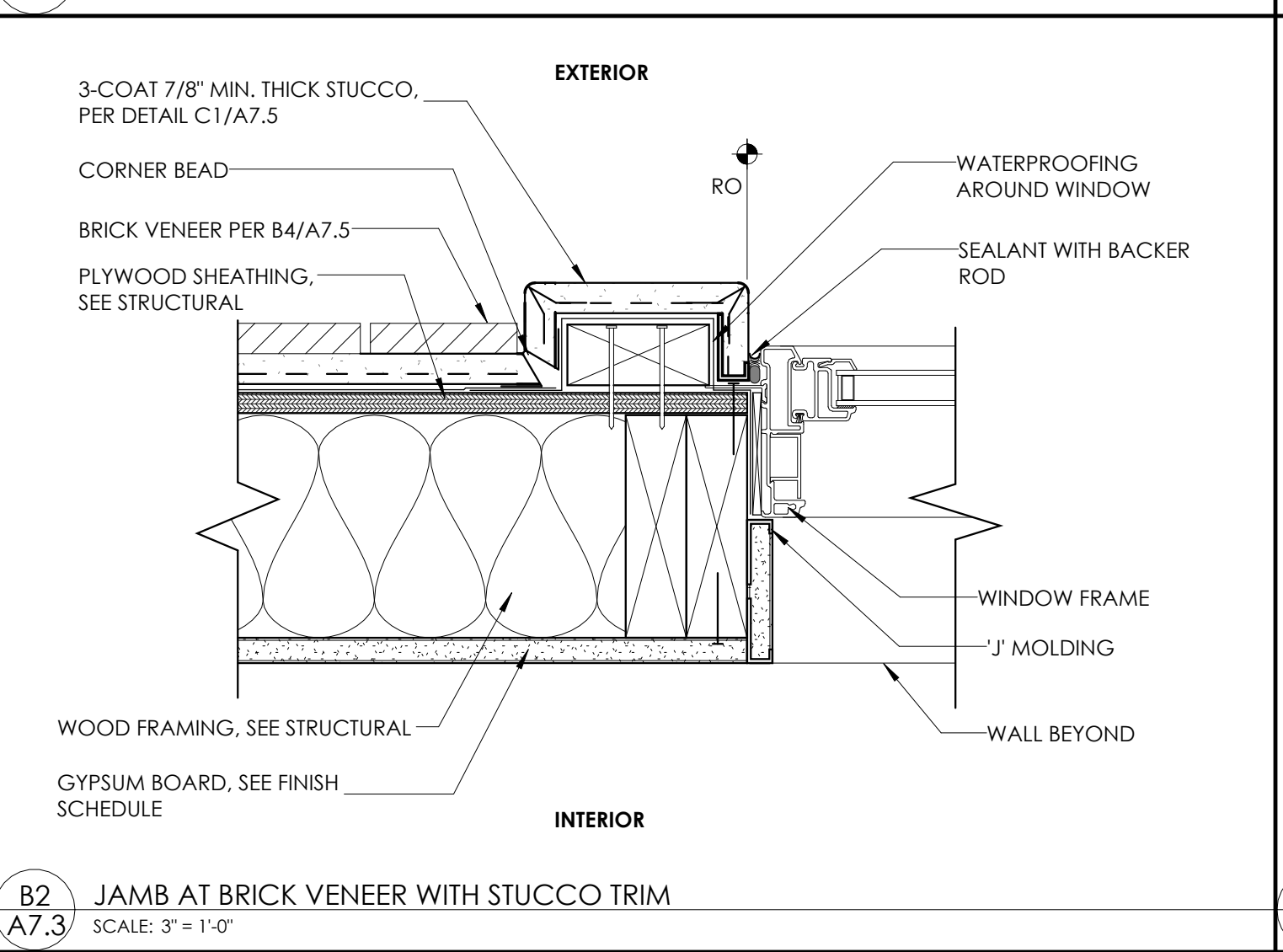
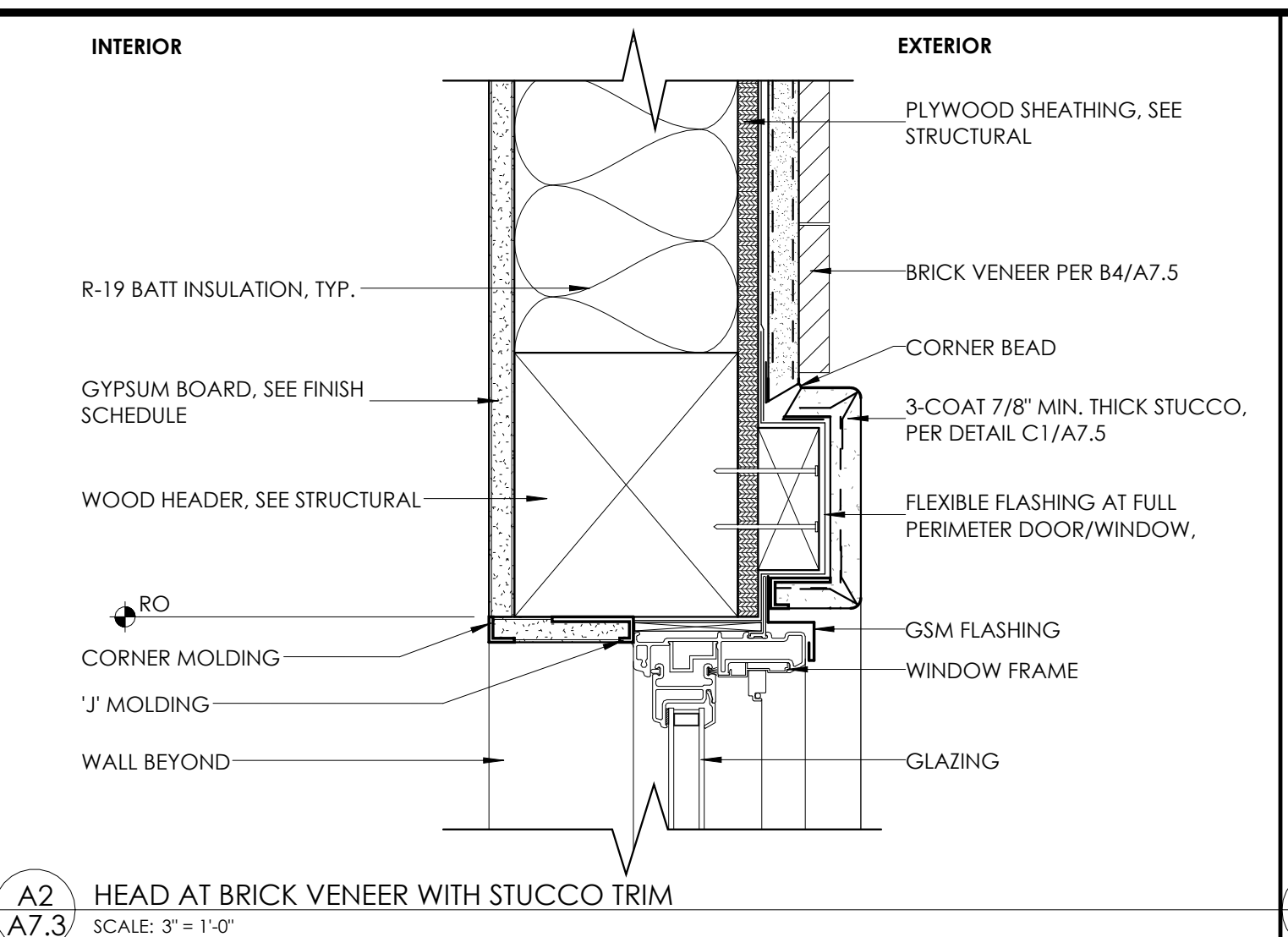
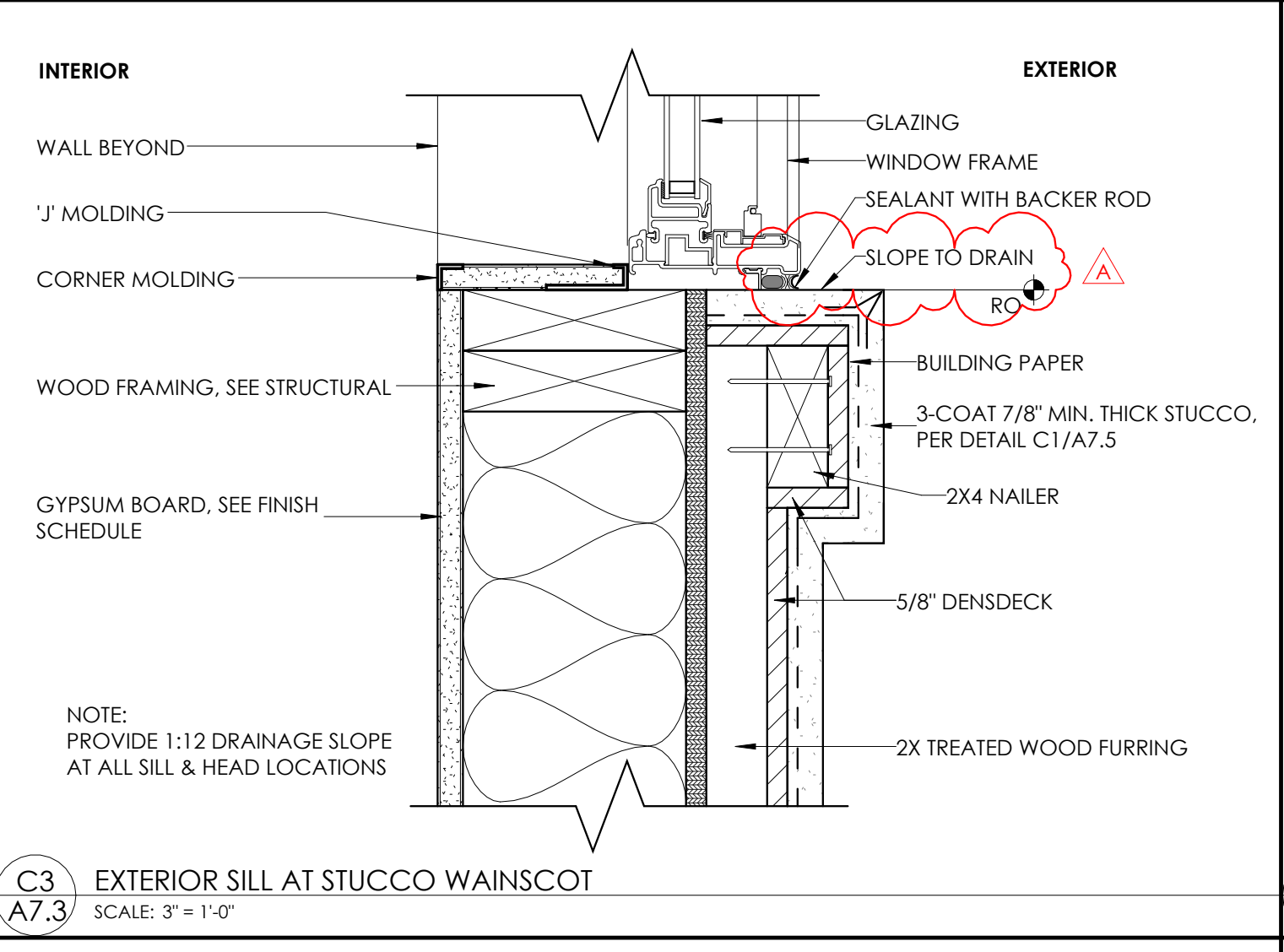
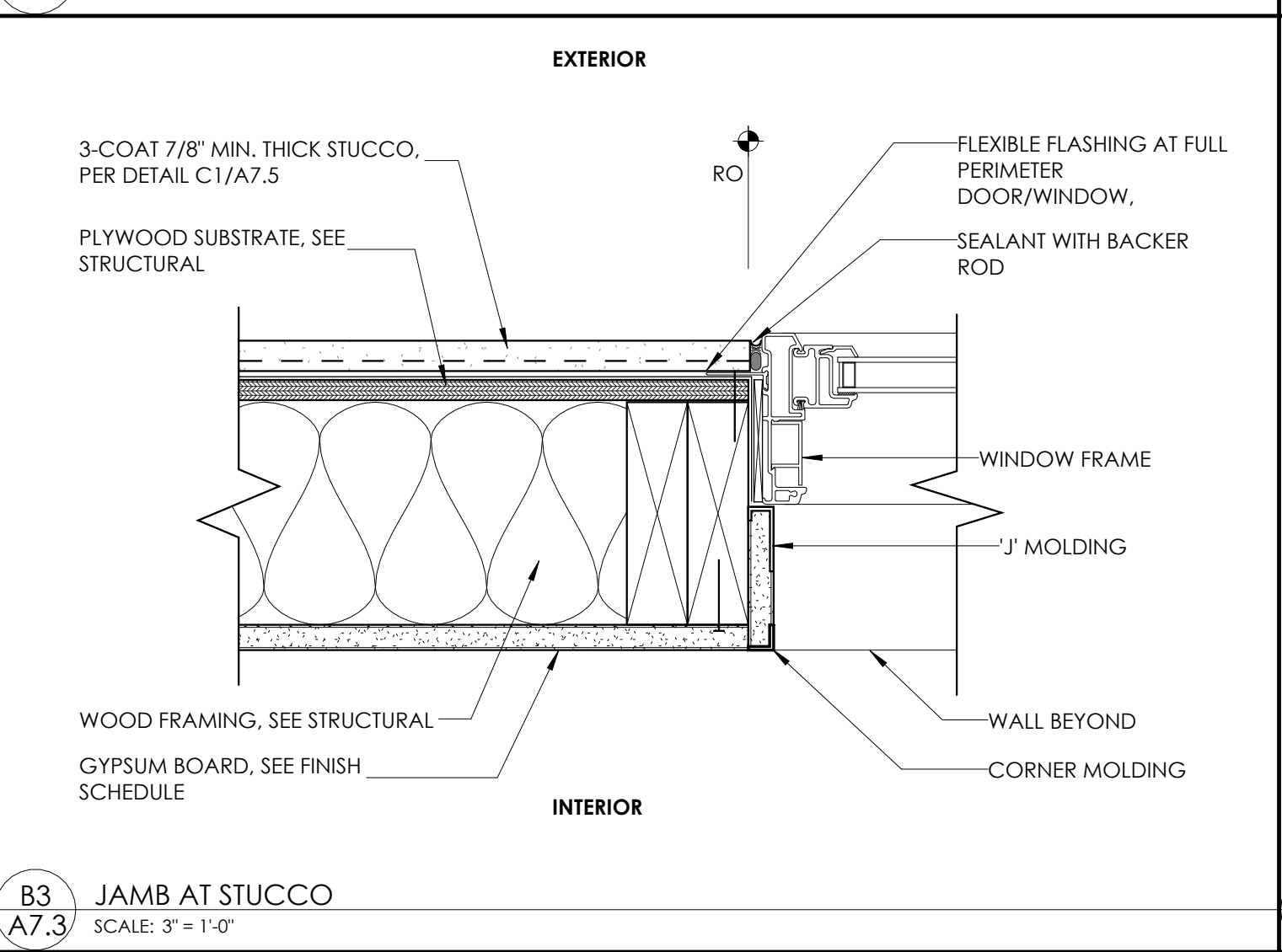
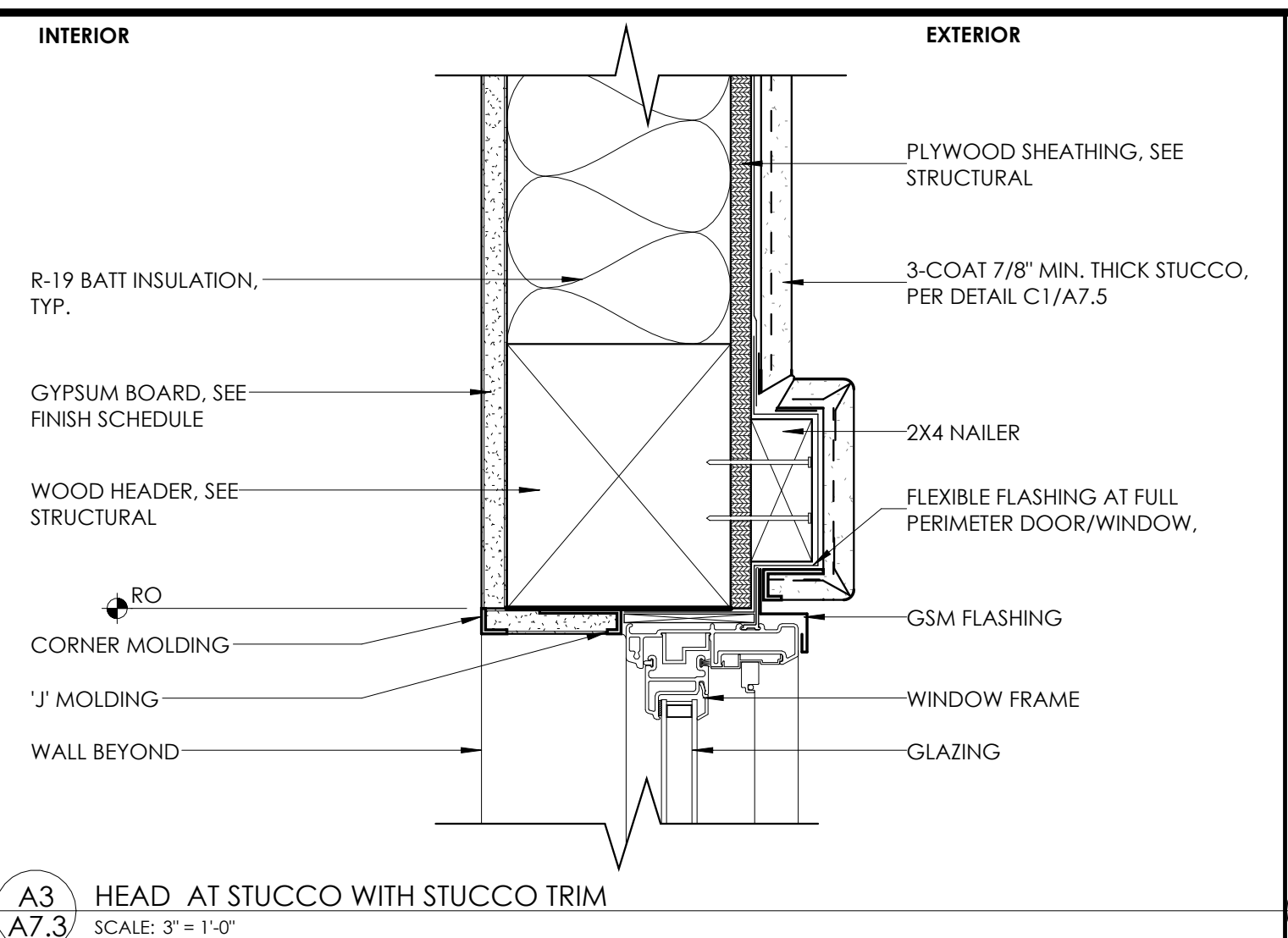
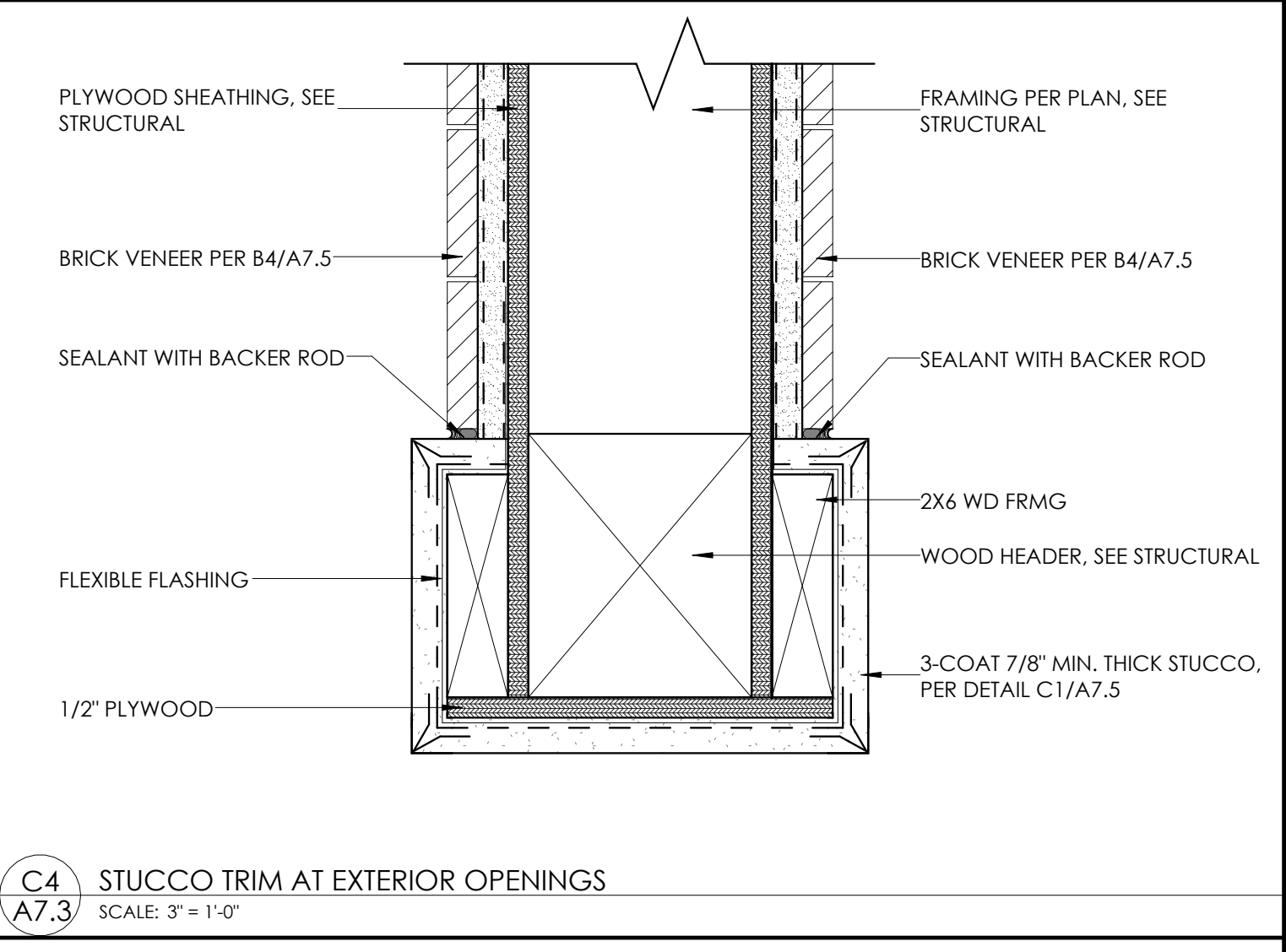
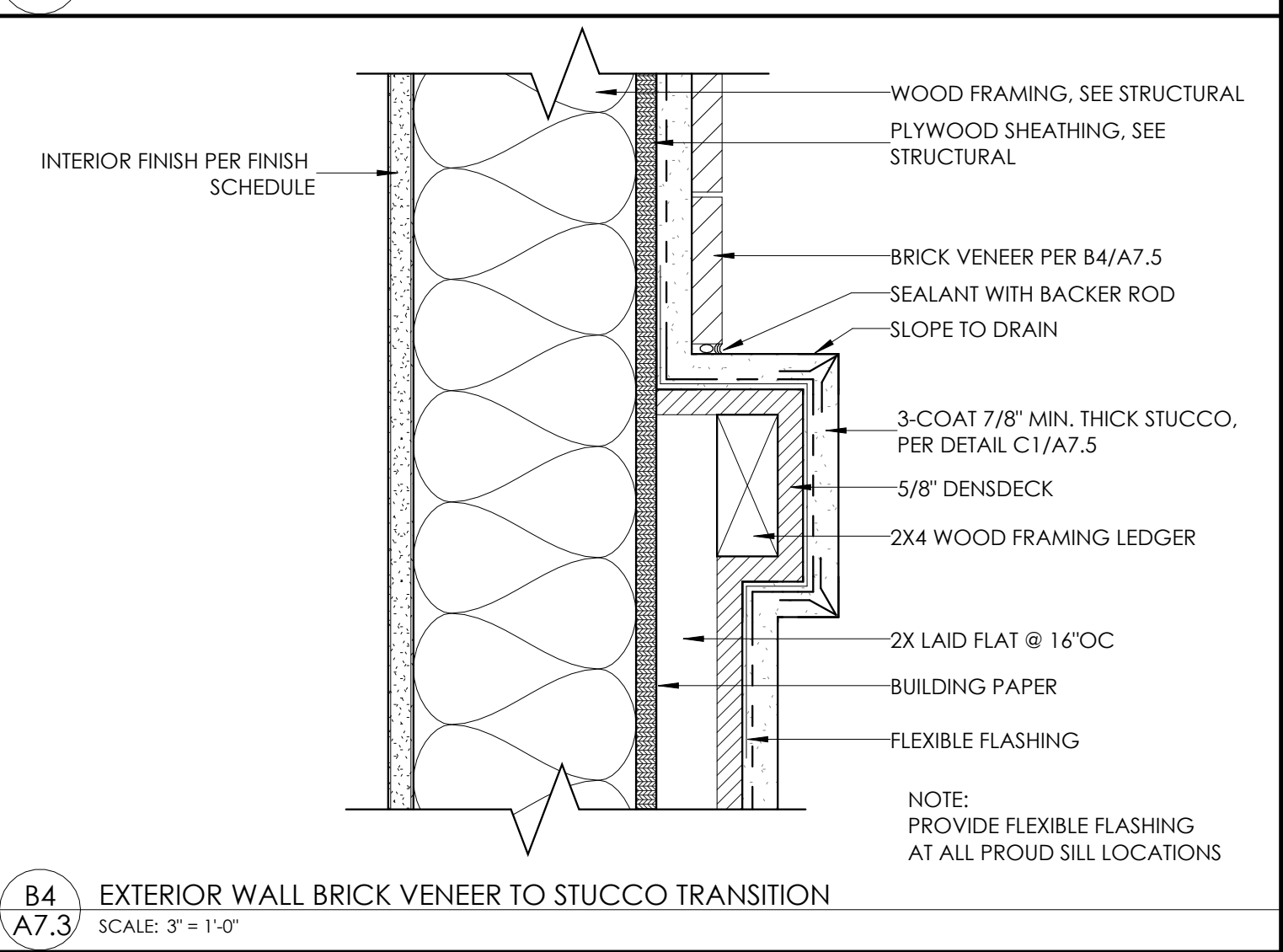
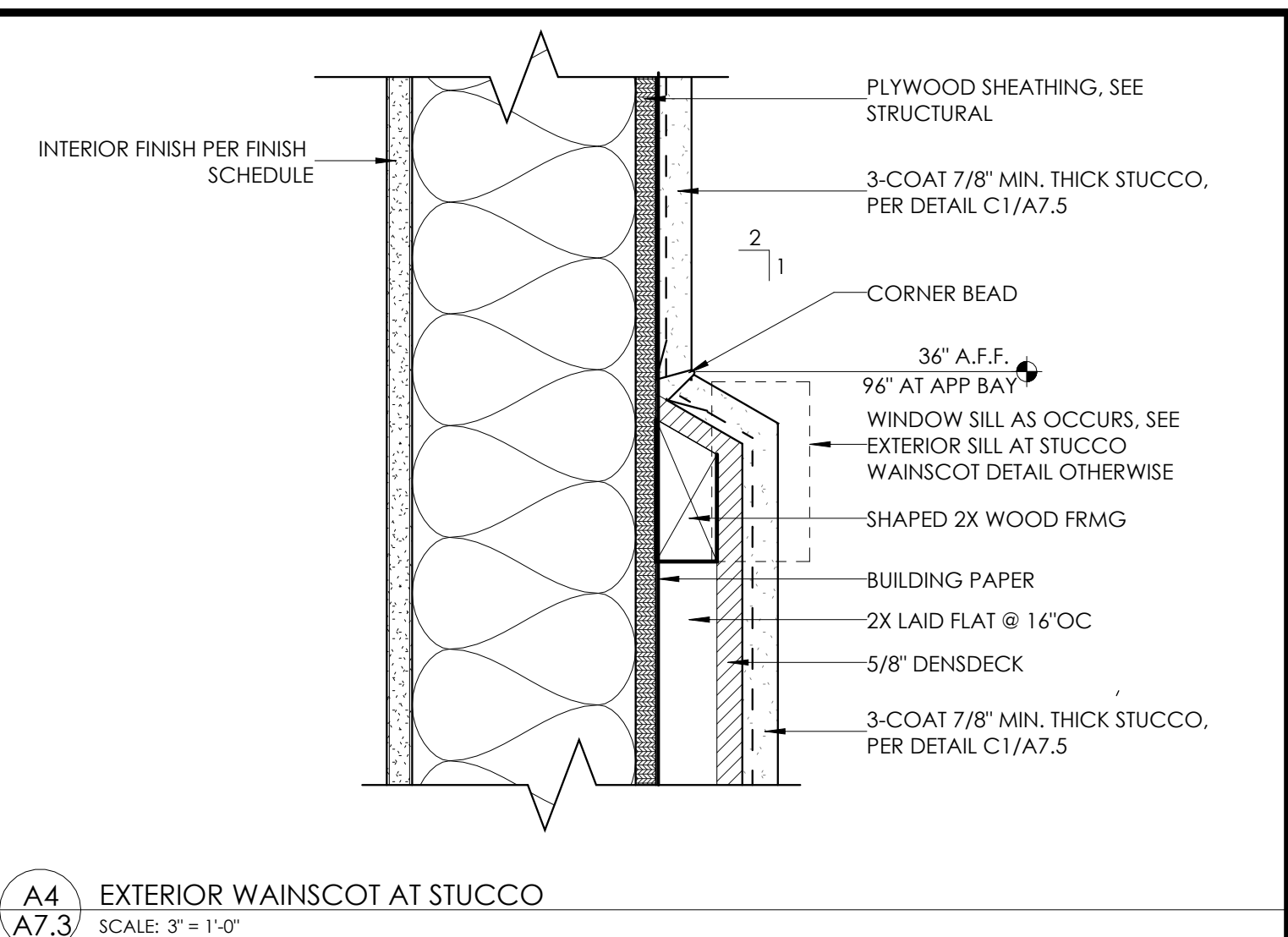
NOT FOR CONSTRUCTION

**PROJECT NUMBER:**  
211101

**SHEET TITLE:**  
DOOR AND WINDOW DETAILS

**SHEET NUMBER:**

A7.3







**coar**  
DESIGN GROUP  
previously **JKA**  
200 E STREET, SANTA ROSA, CA 95404  
619.898.9177 | www.coargroup.com

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PROJECT:

CITY OF MORGAN HILL  
BUTTERFIELD FIRE  
STATION  
17285 Butterfield Blvd.  
Morgan Hill, CA 95037



DESCRIPTION: DATE:  
95% CONSTR. 01/16/23  
DRAWINGS  
100% CONSTR. 03/22/23  
DRAWINGS  
ADDENDUM A 05/05/23

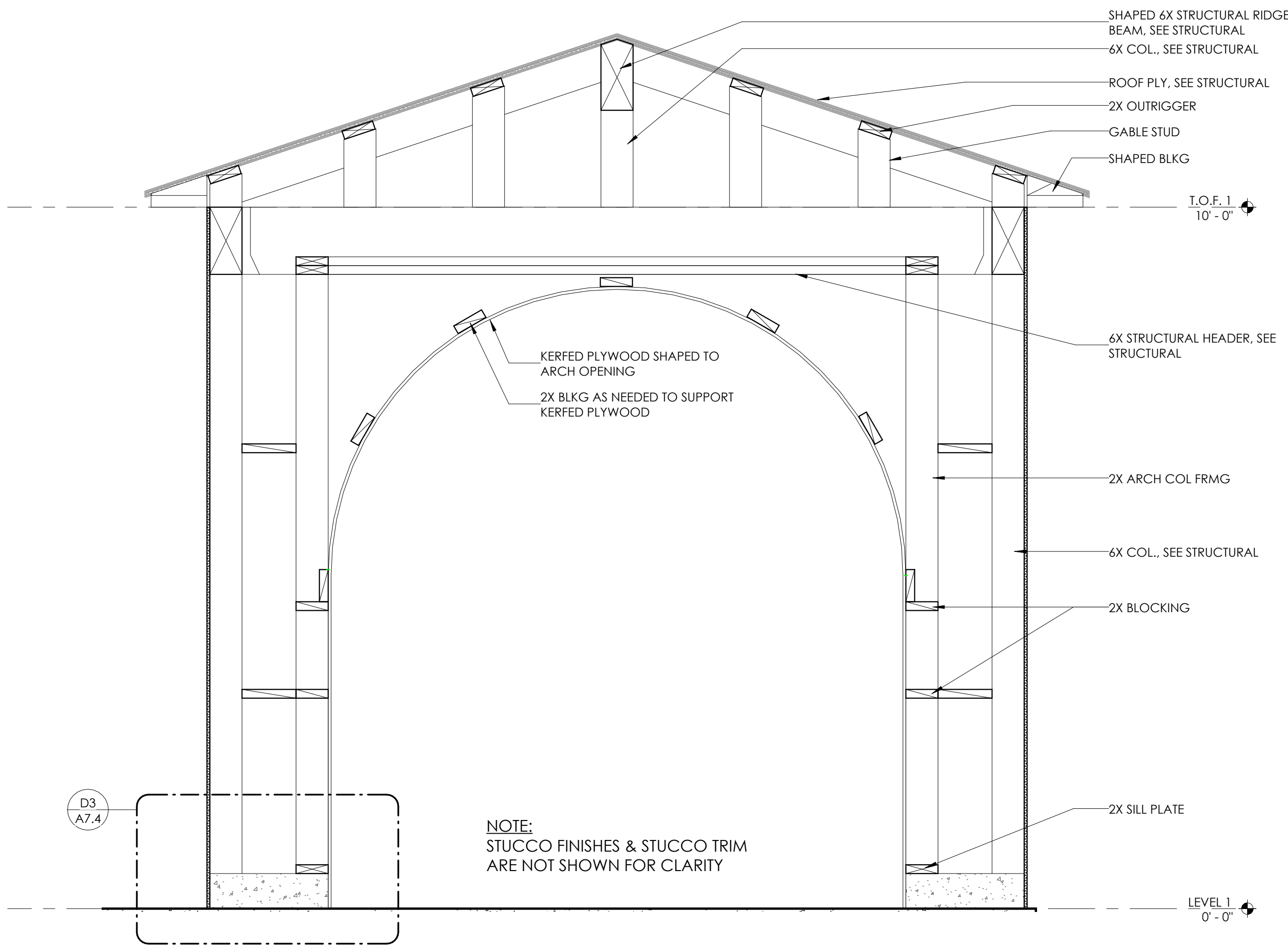
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CONSTRUCTION

PROJECT NUMBER:  
211101

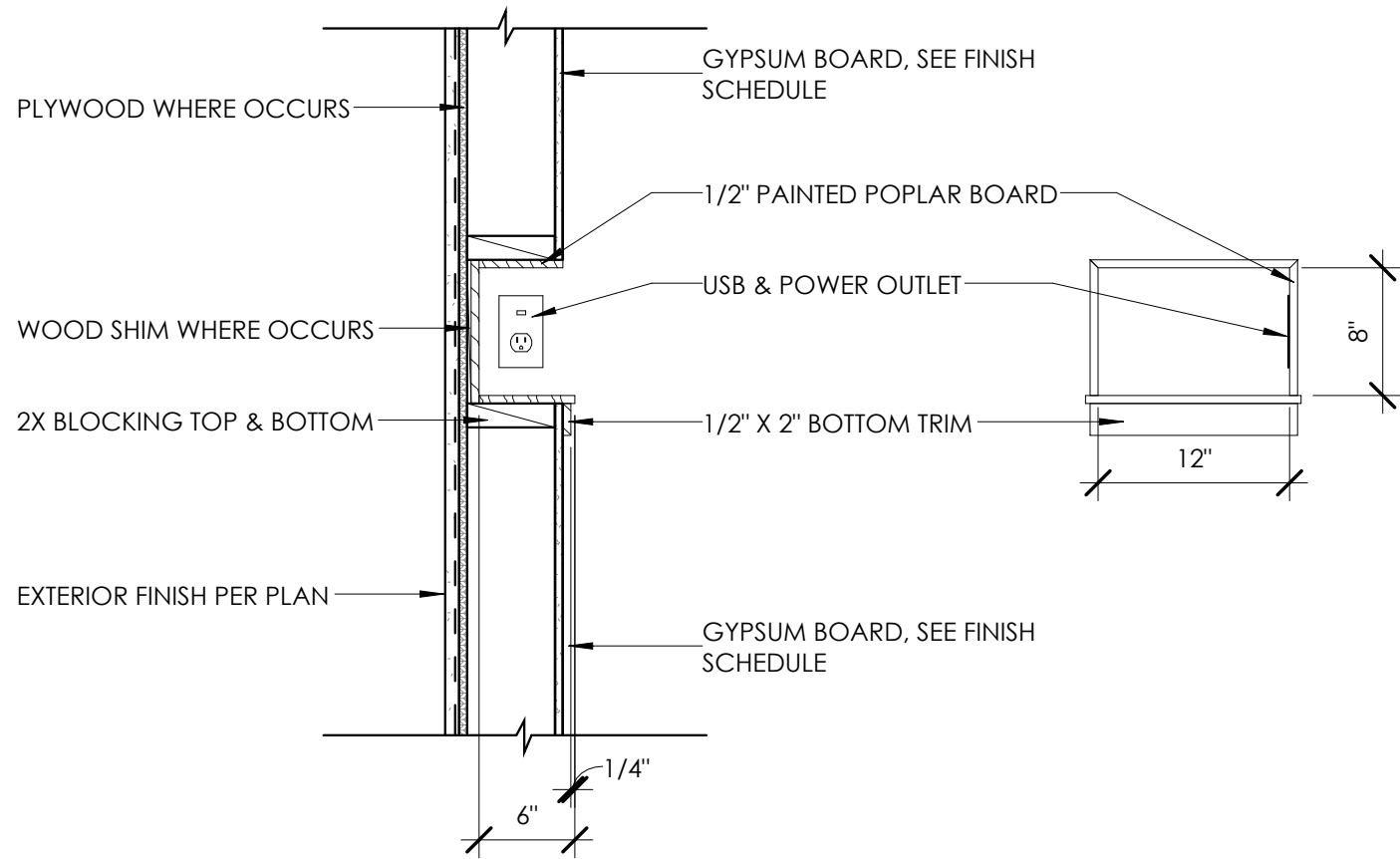
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DETAILS

SHEET NUMBER:

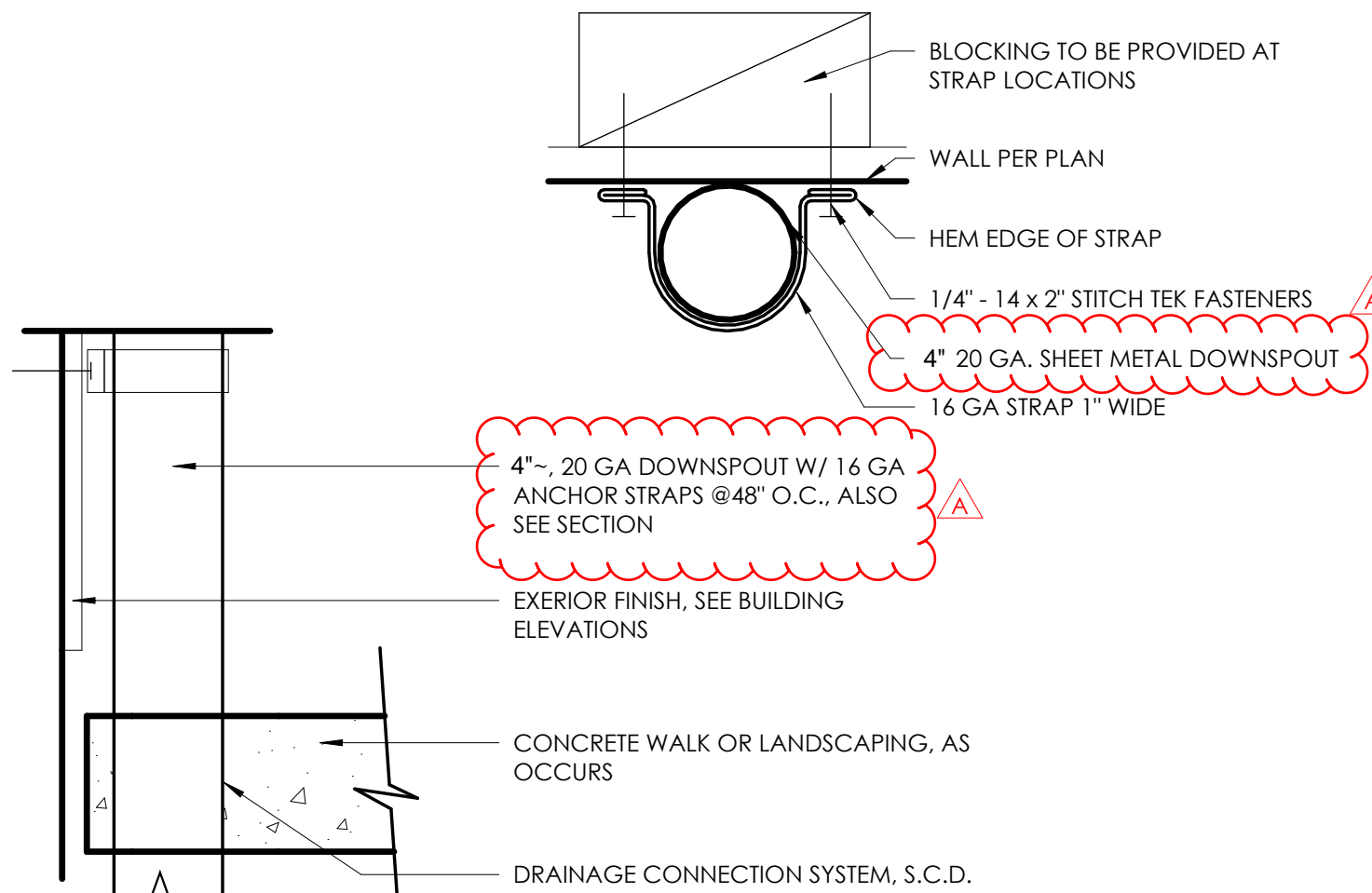
A7.4



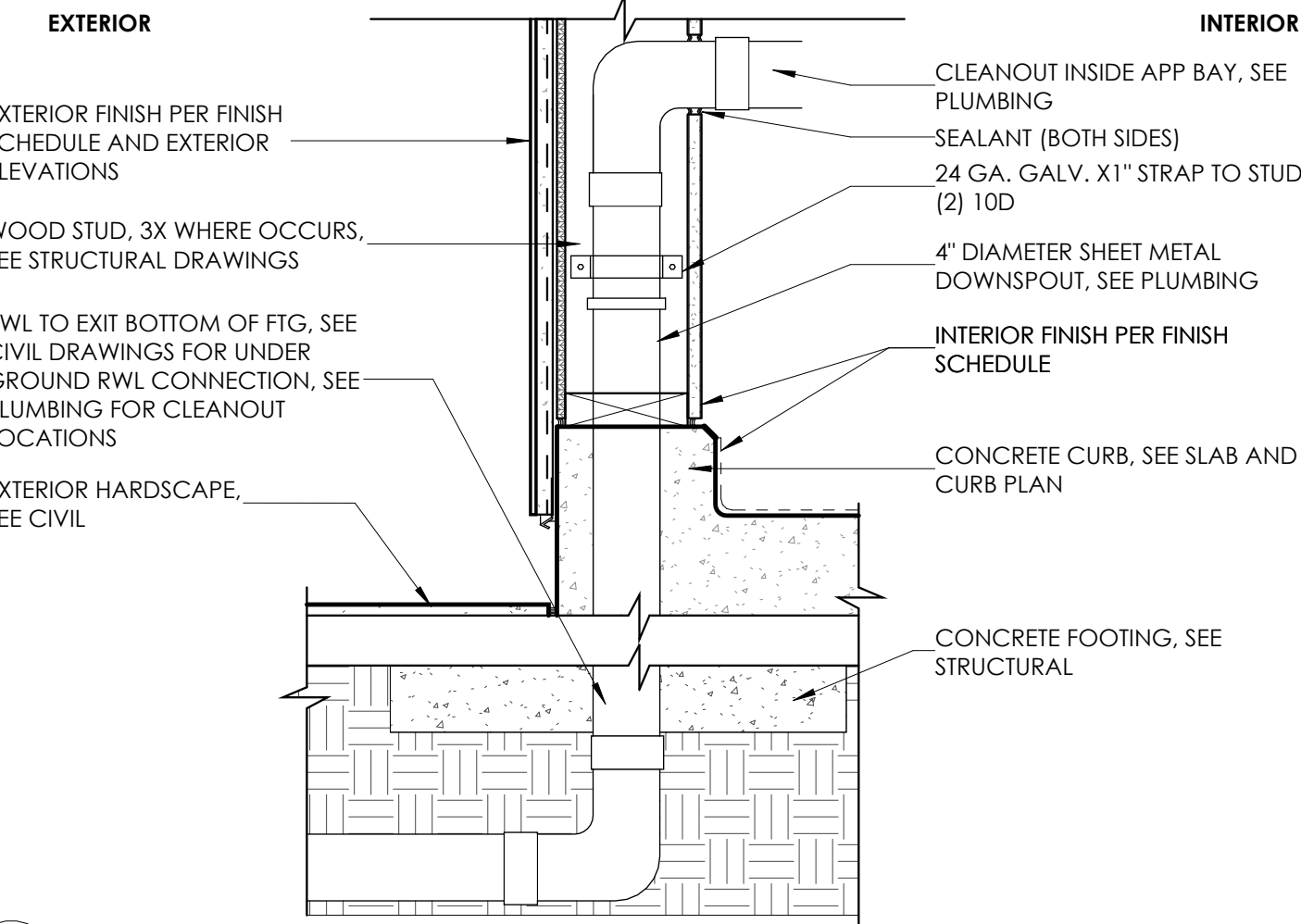
B3 FRAMING AT ARCHED OPENINGS  
A7.4 SCALE: 3/4" = 1'-0"



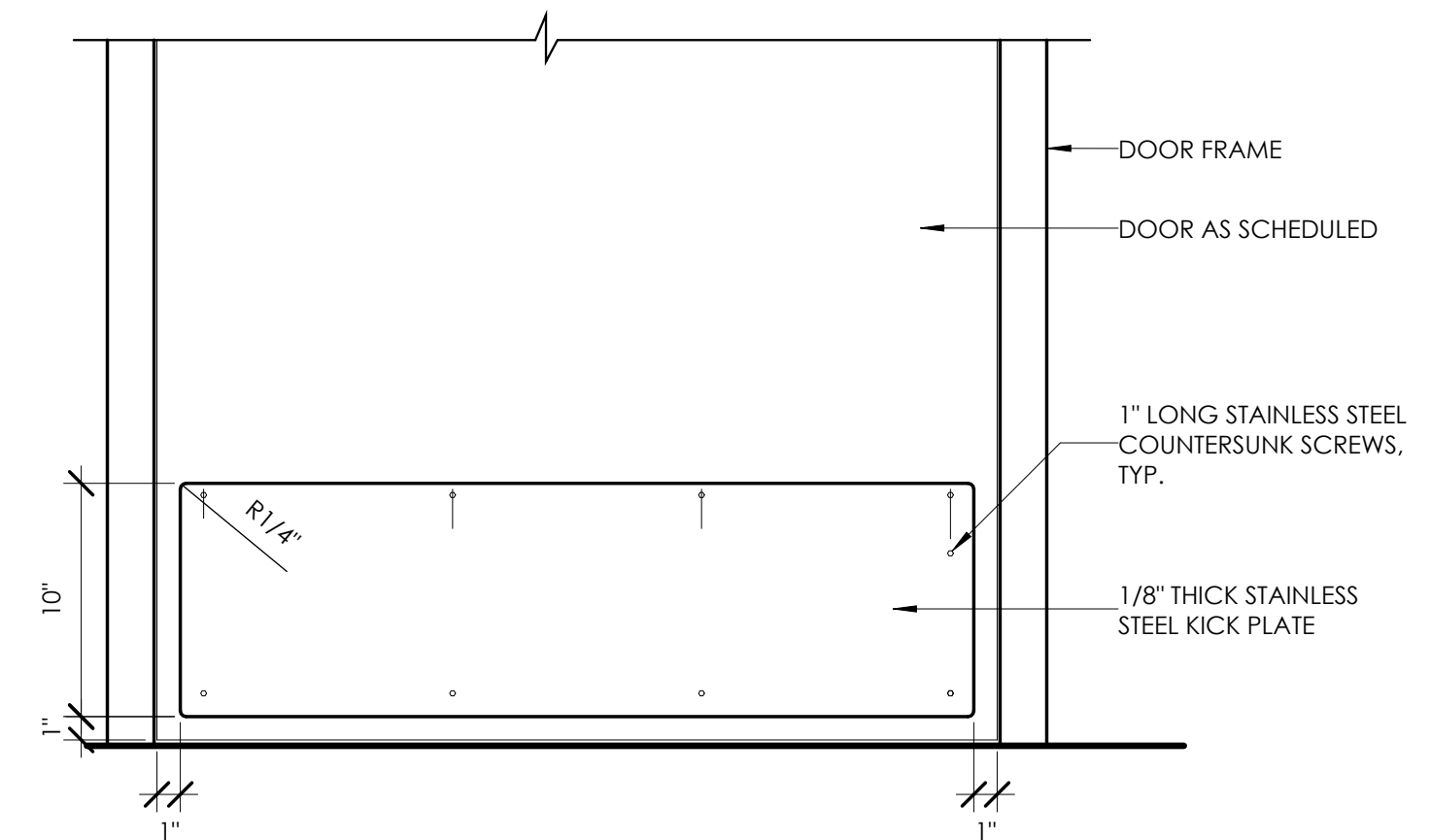
A2 BUILT IN - PHONE NICHE  
A7.4 SCALE: 1" = 1'-0"



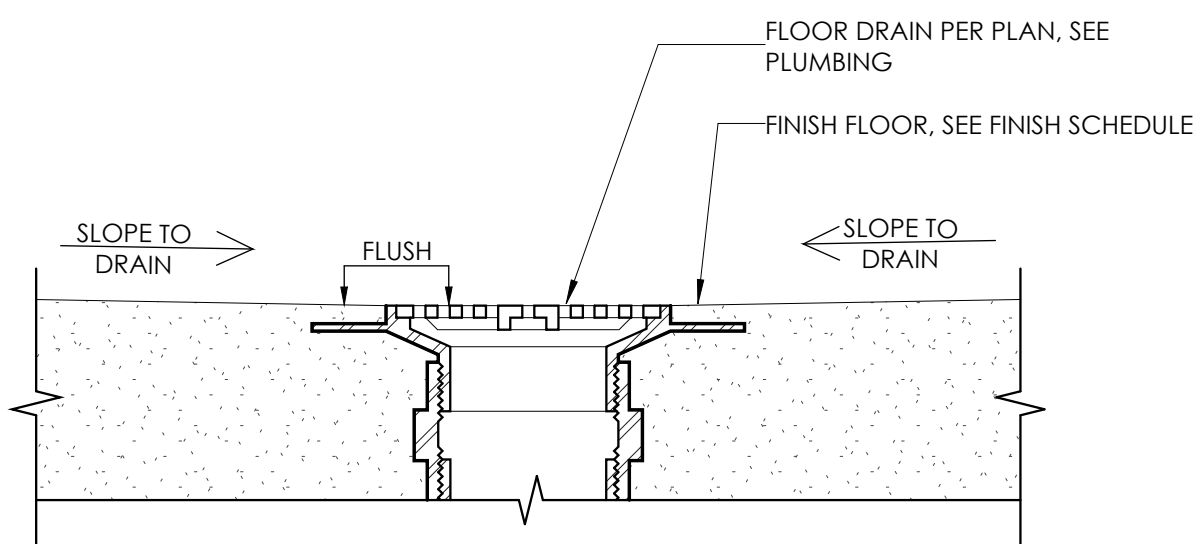
B1 DOWNSPOUT  
A7.4 SCALE: 3" = 1'-0"



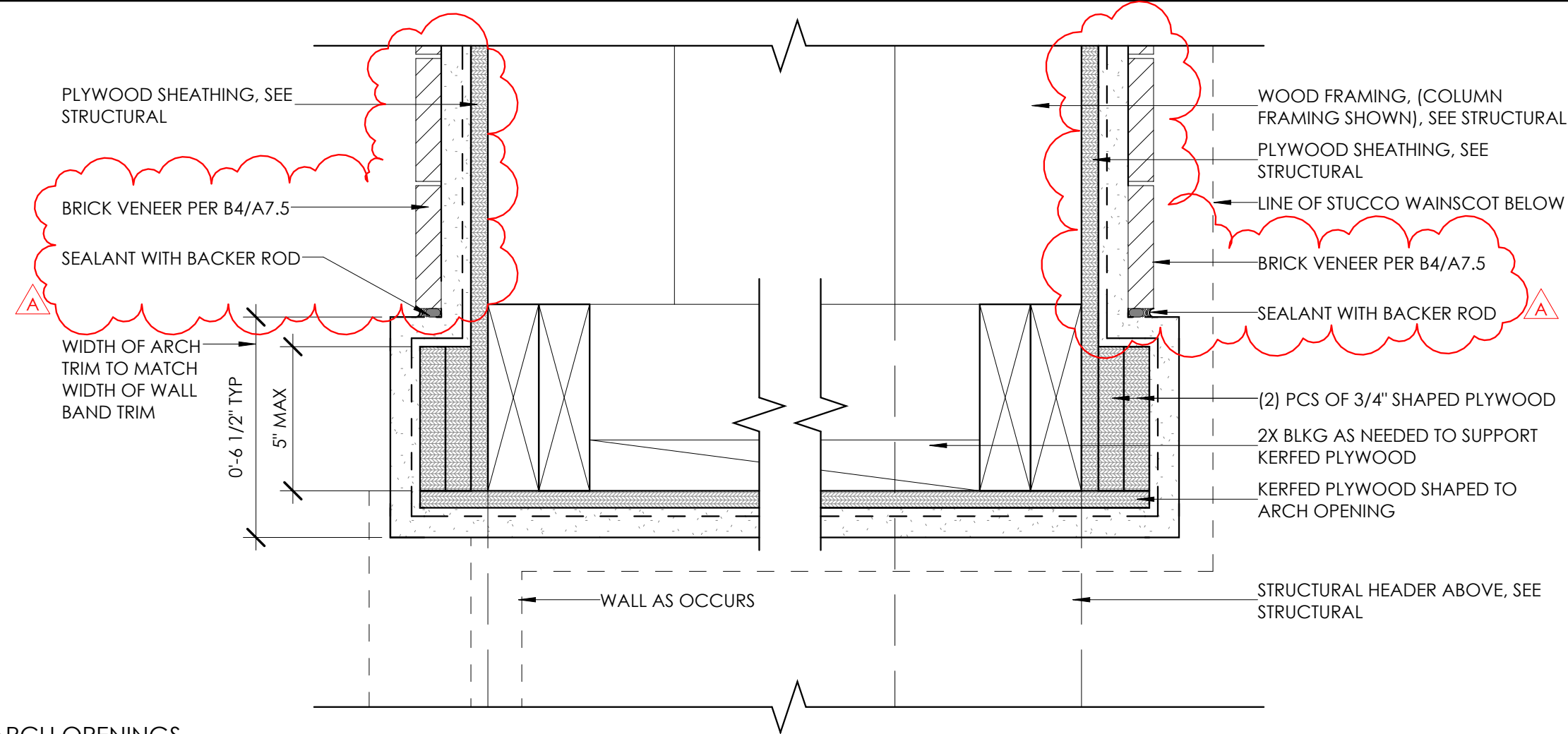
B2 DOWNSPOUT IN WALL  
A7.4 SCALE: 1 1/2" = 1'-0"



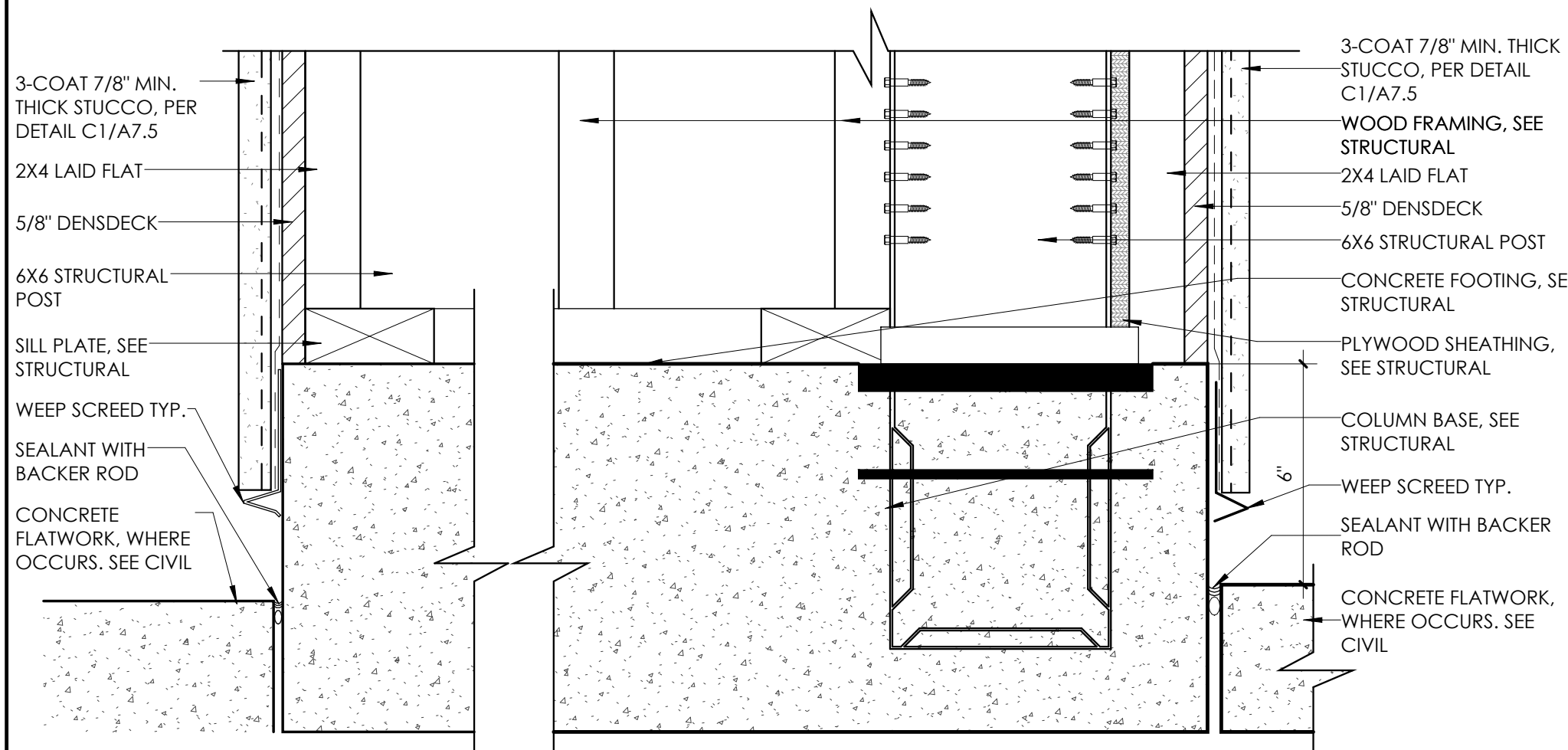
C1 DOOR - KICK PLATE  
A7.4 SCALE: 1 1/2" = 1'-0"



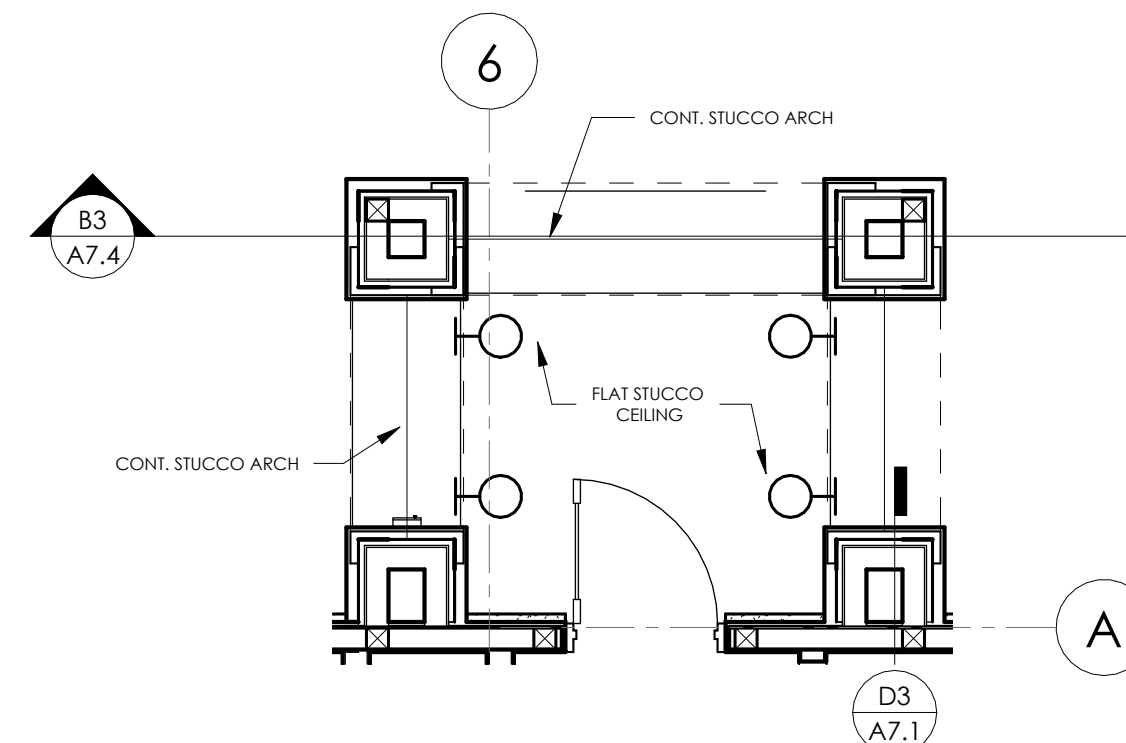
C2 FLOOR DRAIN @ CONCRETE  
A7.4 SCALE: 3" = 1'-0"



C3 STUCCO AT ARCH OPENINGS  
A7.4 SCALE: 3" = 1'-0"



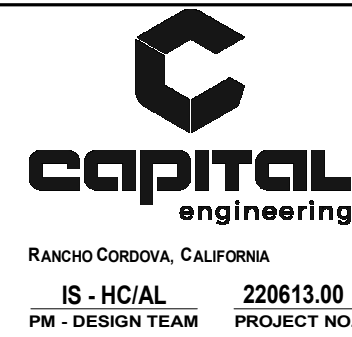
D3 ARCHITECTURAL COLUMN AT FURRED CONCRETE CURB  
A7.4 SCALE: 3" = 1'-0"



D4 ENLARGED ENTRY PLAN  
A7.4 SCALE: 1/4" = 1'-0"



DATE SIGNED: 03/23/23



PROJECT:  
CITY OF MORGAN HILL  
BUTTERFIELD FIRE STATION  
17285 Butterfield Blvd.  
Morgan Hill, CA 95037

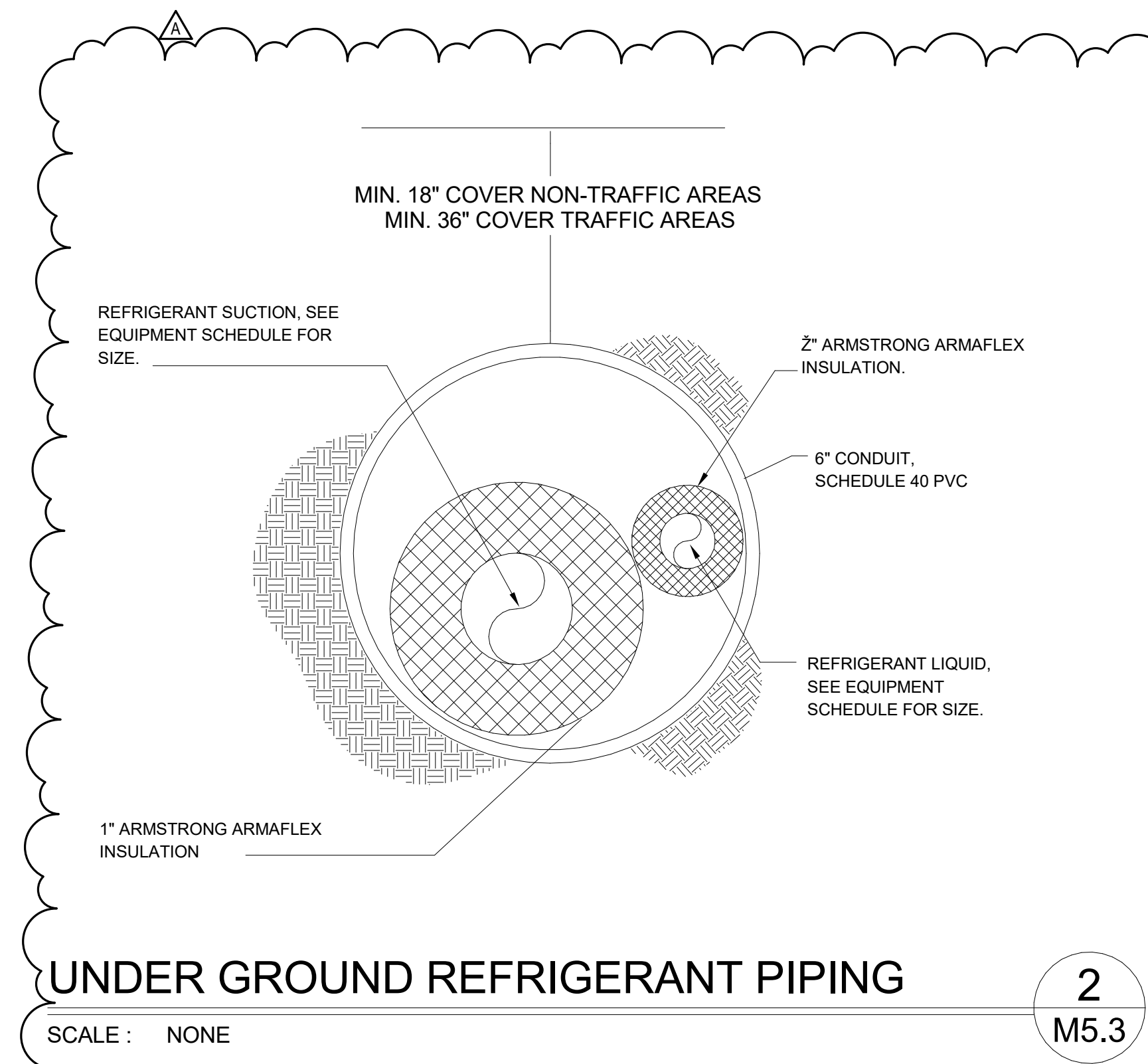


DESCRIPTION:	DATE:
95% CONSTR. DRAWINGS	01/16/23
100% CONSTR. DRAWINGS	03/23/23

PROJECT NUMBER:  
211101

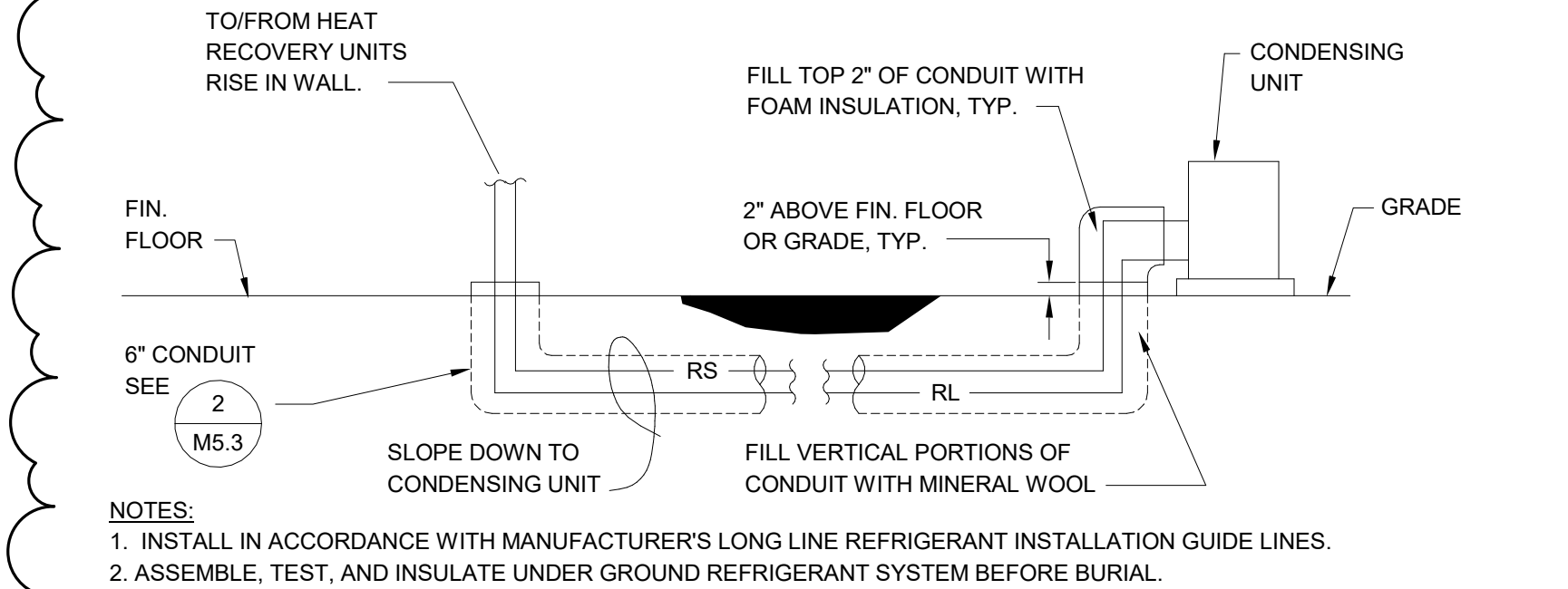
SHEET TITLE:  
HVAC DETAILS

SHEET NUMBER:  
M5.3



UNDER GROUND REFRIGERANT PIPING

SCALE : NONE



REFRIGERANT LINE PIPING DIAGRAM

SCALE : NONE





DATE SIGNED: 03/23/23

**coar**  
DESIGN GROUP

previously **JKA**

200 E STREET, SANTA ROSA, CA 95404  
619.698.9177 | www.coargroup.com

**capital**  
engineering

RANCHO CORDOVA, CALIFORNIA

IS - HC/AL 220613.00  
PM - DESIGN TEAM PROJECT NO.

PROJECT:

CITY OF MORGAN HILL

BUTTERFIELD FIRE  
STATION

17285 Butterfield Blvd.  
Morgan Hill, CA 95037



DESCRIPTION: DATE:

95% CONSTR. 01/16/23  
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DRAWINGS

PROJECT NUMBER:

211101

SHEET TITLE:

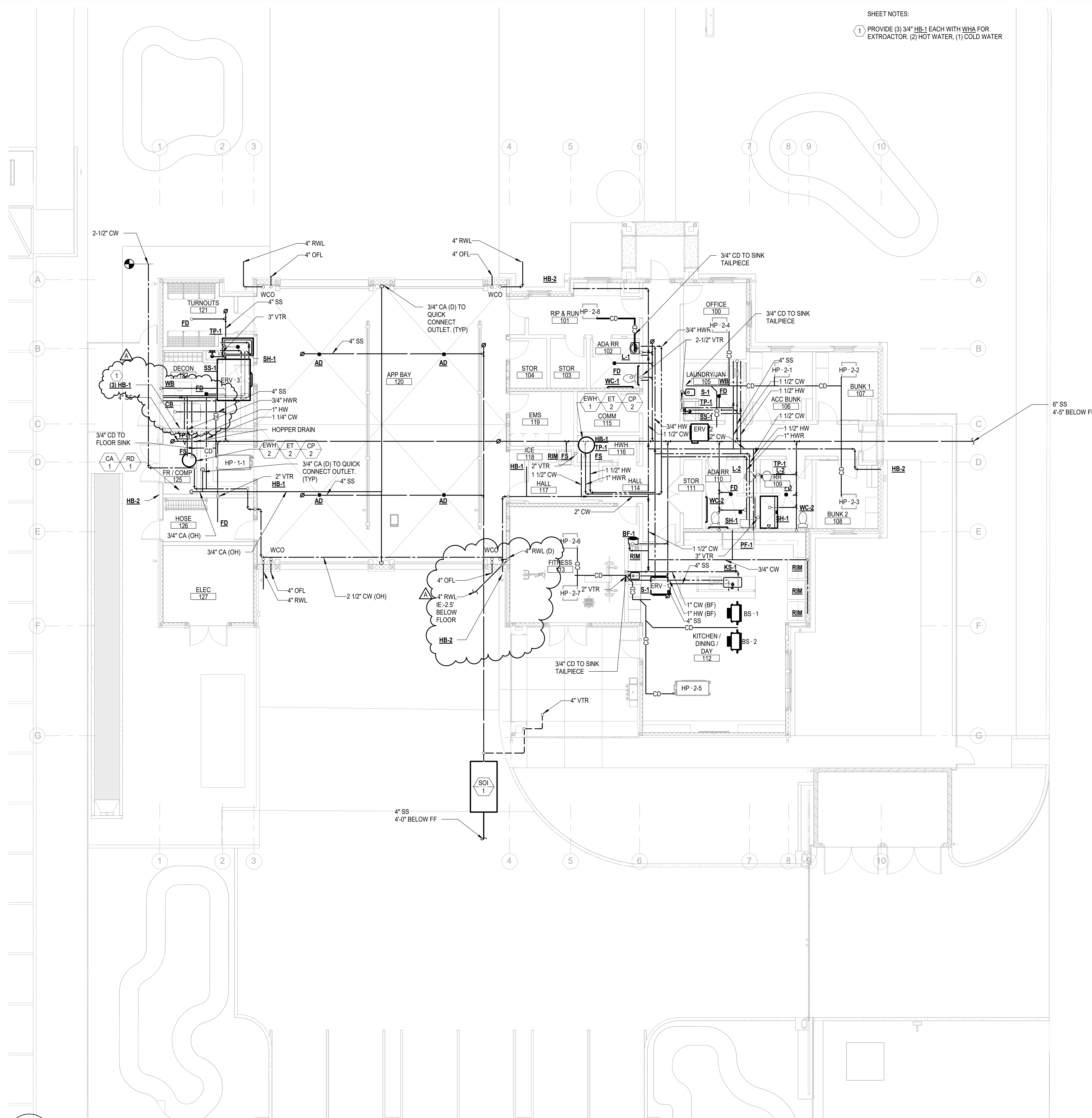
PLUMBING  
FLOOR PLAN

SHEET NUMBER:

P2.1

SHEET NOTES:

(1) PROVIDE (3) 3/4" HB-1 EACH WITH WHA FOR  
EXTROACTOR. (2) HOT WATER, (1) COLD WATER

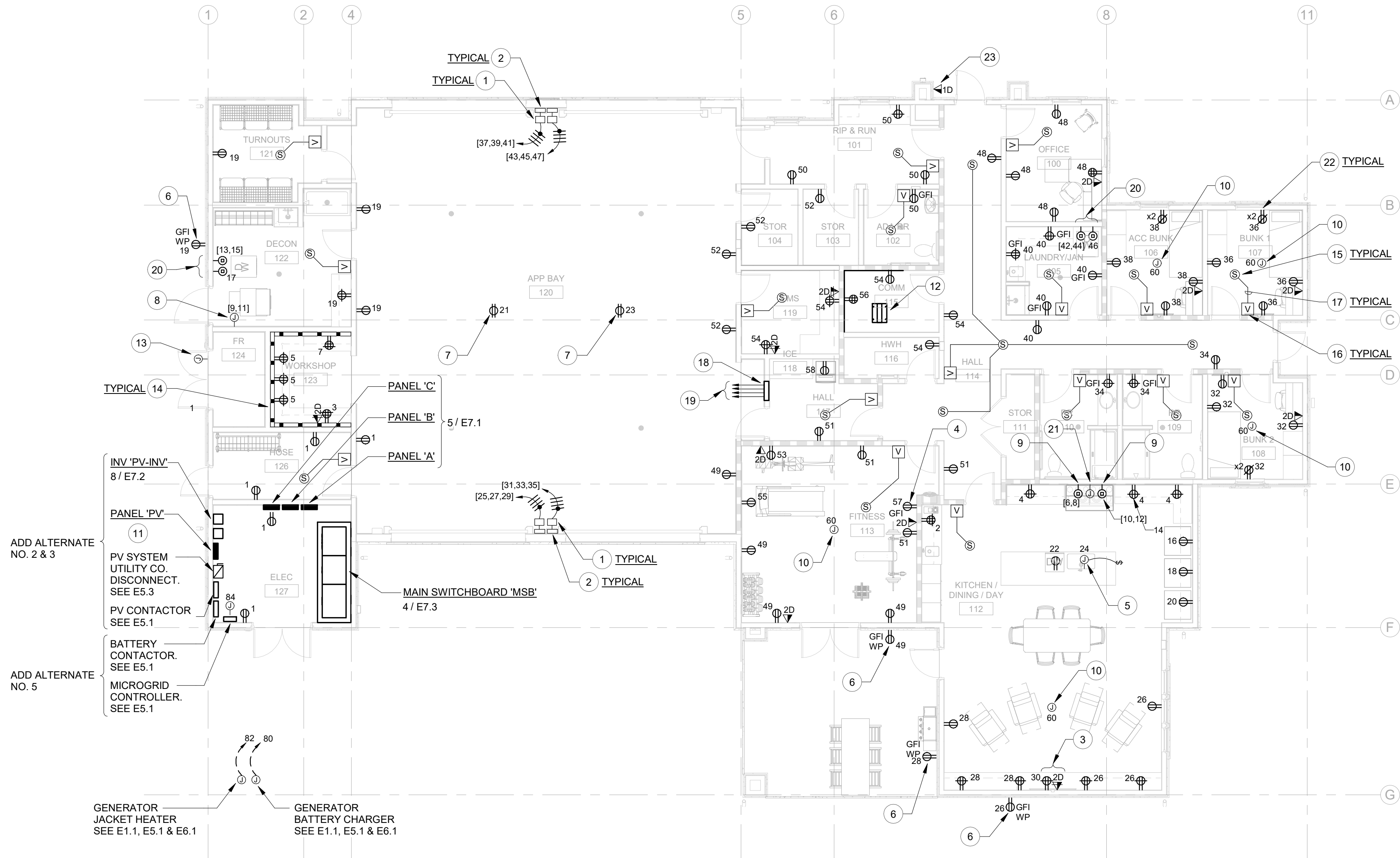


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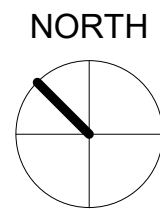
PLUMBING FLOOR PLAN

P2.1

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



1 FLOOR PLAN - POWER & SIGNA  
1/8" = 1'-0"

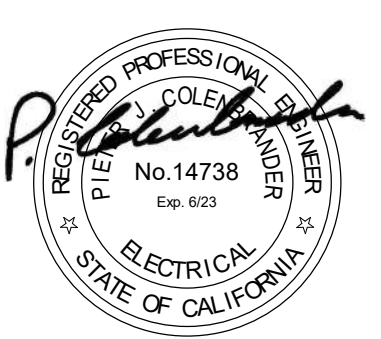


## # SHEET NUMBERED NOTES

- 1 COILING DOOR CONTROL PANEL/DISCONNECT SWITCH, FLUSH MOUNTED HIGH ON WALL. ROUTE CIRCUITRY SHOWN THROUGH PANEL/SWITCH AND CONNECT COMPLETE TO DOOR MOTOR. SEE 2/E5.1
- 2 3-PHASE AUTOTRANSFORMER FOR COILED APP BAY DOOR MOTOR. PROVIDED BY DOOR MANUFACTURER FOR INSTALLATIONS WHERE THE UTILITY VOLTAGE IS NOT SUFFICIENT. MOTOR REQUIRES 460V MINIMUM. WALL MOUNT ADJACENT TO MOTOR. SEE 2/E5.1
- 3 FLUSH WALL MOUNTED AV/POWER BOX ASSEMBLY (BEHIND FLAT PANEL DISPLAY). HUBBELL NET SELECT FPTV 2-GANG BOX #NSAV62M, OR EQUAL, WITH DUPLEX RECEPTACLE AND (2) DATA JACKS. VERIFY MOUNTING HEIGHT AND LOCATON WITH ARCHITECT PRIOR TO ROUGH-IN. SEE ARCHITECTURAL ELEVATION DRAWINGS.
- 4 PROVIDE GFI RECEPTACLE FOR BOTTLE FILLER. COORDINATE EXACT MOUNTING HEIGHT WITH BOTTLE FILLER INSTALLER.
- 5 PROVIDE POWER CONNECTION FOR UNDER COUNTER GARBAGE DISPOSAL. RUN CIRCUIT THROUGH TOGGLE SWITCH FLUSH MOUNTED TO SIDE OF CABINETRY, AS SHOWN. COORDINATE SWITCH LOCATION WITH CABINETRY MANUFACTURER AND INSTALLER, TO AVOID CONFLICTS WITHIN CABINETRY.
- 6 PROVIDE FLUSH WALL MOUNTED WEATHERPROOF COVER WITH LOCKING LATCH, PASS & SEYMOUR 4600 SERIES, OR EQUAL. REQUIRES SPECIAL ROUGH-IN.
- 7 CEILING MOUNTED RECEPTACLE FOR CORD DROP POWER REEL. PROVIDE MOTORIZED CORD REEL ATTACHED TO STRUCTURE ABOVE USING FACTORY CEILING MOUNT. WITHIN 12' OF CEILING RECEPTACLE. CORD REEL SHALL BE RATED 15 AMPS, 120 VOLTS WITH 40 FOOT LONG 12/3 CORD AND THREE SINGLE NEMA 5-15R RECEPTACLES AT END OF CORD. PROVIDE CEILING MOUNTED HUBBELL MODEL HBLCA0123TT. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. SEE 7/E7.1.
- 8 PROVIDE POWER CONNECTION FOR WASHER-EXTRACTOR. COORDINATE EXACT LOCATION WITH ARCHITECT.
- 9 PROVIDE NEMA 14-50R RECEPTACLE FOR COMBINATION OVEN/RANGE. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
- 10 PROVIDE POWER CONNECTION IN CEILING FOR SURFACE MOUNTED CEILING FAN. COORDINATE EXACT LOCATION WITH ARCHITECT. CONNECT COMPLETE.
- 11 PV AC COLLECTOR PANEL. SEE 1/E-5.4.
- 12 PROVIDE FLOOR MOUNTED 2-POST RACK, CHATSWORTH MODEL #55053-703, OR EQUAL. COORDINATE EXACT LOCATION WITH CITY IT STAFF.
- 13 PROVIDE POWER CONNECTION FOR FIRE SPRINKLER ALARM BELL AND WATER FLOW ALARM SWITCH. COORDINATE EXACT LOCATION WITH DIVISION 21.
- 14 PROVIDE 4000 SERIES WIREMOLD RACEWAY, MOUNTED ABOVE COUNTER, WITH SEPARATE CHANELS FOR LINE AND LOW VOLTAGE WIRING AND DEVICES. INCLUDE ALL REQUIRED FITTINGS, COVERS AND BLANK PLATES.
- 15 PROVIDE SPEAKER, FLUSH IN CEILING, FOR RING DOWN ALERT SYSTEM. SEE 3/E5.2 FOR RING DOWN ALERT SYSTEM DIAGRAM.
- 16 PROVIDE SOUND ATTENUATOR FOR ROOM RINGDOWN ALERT SYSTEM SPEAKER. MOUNT FLUSH IN WALL ADJACENT TO ROOM LIGHTING CONTROL SWITCH. SEE 3/E5.2 FOR RING DOWN ALERT SYSTEM DIAGRAM.
- 17 PROVIDE 1/2" CONDUIT FROM BOX TO CEILING SPEAKER, AS SHOWN, FOR VOLUME CONTROL SWITCH AND CONTROL WIRING, BY RING DOWN SYSTEM VENDOR. SEE 3/E5.2 FOR RING DOWN ALERT SYSTEM DIAGRAM.
- 18 RECESSED NEMA 1 ENCLOSURE FOR MASTER APP BAY DOOR CONTROLS, PROVIDED BY DOOR CONTRACTOR, INSTALLED BY ELECTRICAL.
- 19 3/4" CONDUITS, (1) PER APP BAY DOOR, FOR MASTER DOOR CONTROL WIRING. ROUTE CONCEALED IN WALLS AND CEILING TO WALL MOUNTED DOOR CONTROLLER FOR EACH DOOR. CONTROL WIRING TO BE INSTALLED BY DOOR CONTRACTOR. SEE 2/E5.1.
- 20 PROVIDE (2) RECEPTACLES FOR COMBO WASHER/DRYER UNIT. COORDINATE RECEPTACLE NEMA TYPE REQUIRED WITH WASHER/DRYER MANUFACTURER. MOUNT AT +48" AFF ON CENTER.
- 21 PROVIDE POWER CONNECTION FOR RANGE HOOD. COORDINATE LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.
- 22 PROVIDE COMBINATION DUPLEX POWER-USB OUTLET RECEPTACLE IN WALL PHONE CHARGING NICHE. SEE ARCHITECTURAL INTERIOR ELEVATIONS AND A2/A7.4. TEXT INDICATES QUANTITY OF USB OUTLETS PER RECEPTACLE.
- 23 PROVIDE DATA OUTLET FOR STATION 911 TELEPHONE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TELEPHONE INSTALLER.

## GENERAL SHEET NOTES

1. ALL BRANCH CIRCUITRY SHOWN ON THIS PLAN SHALL HOMERUN TO PANEL 'B', U.O.N.



## PROJECT:

CITY OF MORGAN HILL

BUTTERFIELD FIRE STATION

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## DESCRIPTION: DATE:

95% CONSTR. 01/16/23  
DRAWINGS

100% CONSTR. 03/23/23  
DRAWINGS

NOT FOR  
CONSTRUCTION

## PROJECT NUMBER:

211101

## SHEET TITLE:

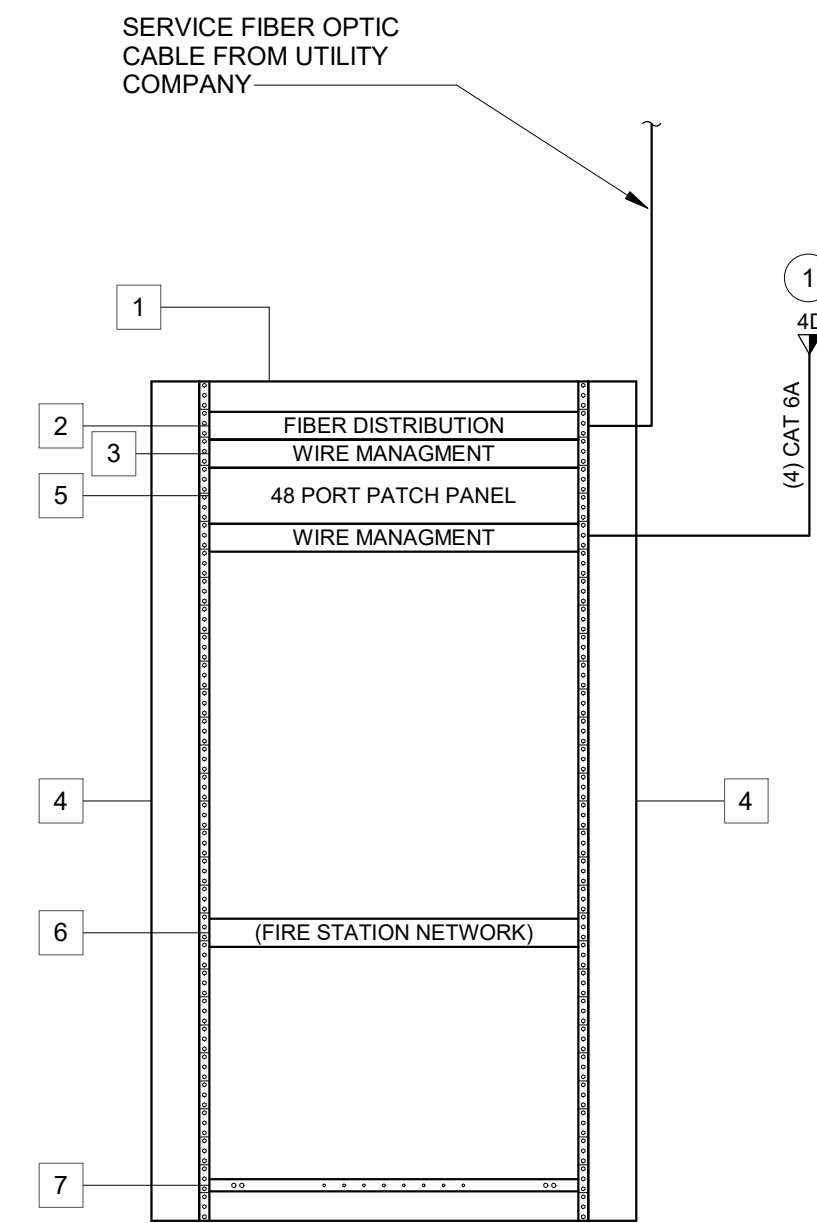
FLOOR PLAN -  
POWER &  
SIGNAL

## SHEET NUMBER:

E3.1

# DETAIL NUMBERED NOTES

1. PROVIDE CATEGORY 6A DATA CABLING IN QUANTITIES SHOWN. HOMERUN TO EACH DEVICE. SEE FLOOR PLANS FOR EXACT LOCATION AND QUANTITIES.

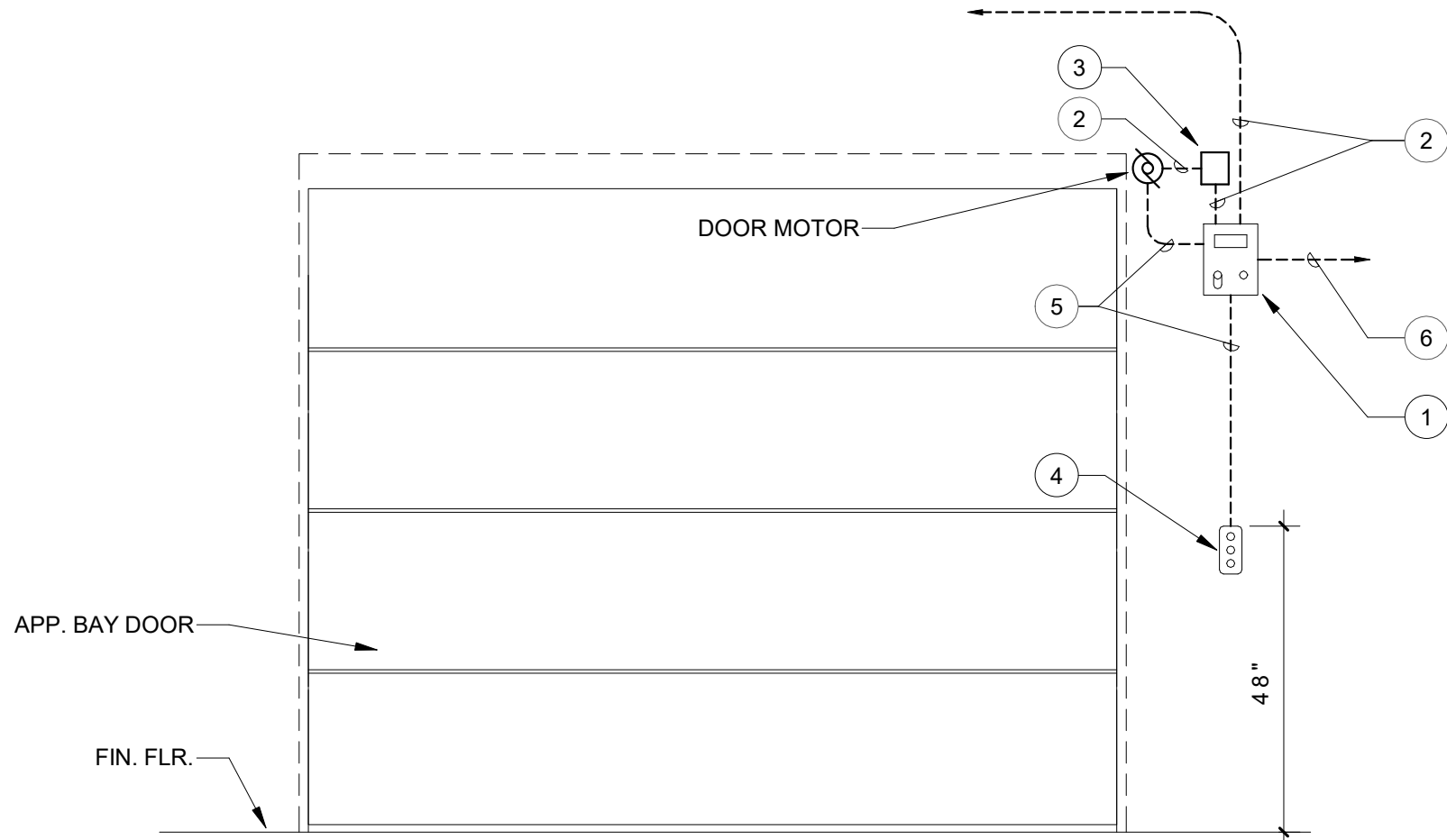


MDF - COMM 115

3 SINGLE LINE DIAGRAM - DATA ELEVATION  
NOT TO SCALE

NOTE

- INFORMATION SHOWN IS FOR REFERENCE AND BIDDING PURPOSES ONLY. COORDINATE/VERIFY EXACT BOX REQUIREMENTS AND LOCATIONS WITH THE DOOR INSTALLER AND APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN.
- CONDUIT AND BOXES TO BE FLUSH MOUNTED AND CONCEALED IN WALLS. REFER TO STRUCTURAL PLANS FOR EMBEDDED CONDUIT DETAILS.
- CONDUITS ARE GRS TYPE.



# DETAIL NUMBERED NOTES

1. DOOR CONTROL PANEL/DISCONNECT SWITCH, FLUSH MOUNTED HIGH ON WALL. CONTROL PANEL PROVIDED BY DOOR CONTRACTOR. WIRED AND CONNECTED COMPLETE BY ELECTRICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH DOOR CONTRACTOR.
2. DOOR MOTOR ELECTRICAL CONNECTIONS. SEE E3.1 AND E6.1. CONCEAL CONDUIT IN WALL.
3. 3-PHASE AUTOTRANSFORMER, PROVIDED BY DOOR MANUFACTURER. DOOR MOTOR REQUIRES MINIMUM 460V.
4. RECESSED BOX FOR UP/DOWN CONTROL STATION, FLUSH MOUNTED IN WALL. CONTROL STATION PROVIDED AND INSTALLED BY DOOR CONTRACTOR.
5. 1/2\"/>

2 APPARATUS BAY DOOR POWER DIAGRAM  
NOT TO SCALE

DATA RACK SCHEDULE

ID	DESCRIPTION
1	FLOOR MOUNTED, 2-POST RACK.
2	FIBER ENCLOSURE, W/ (3) 12-STRAND LC CONNECTOR CASSETS, 1RU
3	HORIZONTAL CABLE MANAGEMENT, 1RU
4	VERTICAL CABLE MANAGEMENT, LENGTH PER RACK HEIGHT.
5	CAT 6A FLAT QUICKPORT PATCH PANEL, 48-PORT, 2RU
6	SPACE FOR ACTIVE NETWORK EQUIPMENT BY CITY.
7	HORIZONTAL COPPER GROUND BAR

PHOTOVOLTAIC AND BATTERY ENERGY STORAGE SYSTEM CODE SUMMARY AND SYSTEM VALUES

RELEVANT CONSTRUCTION CODE:  
2022 CBC

- REQUIRES SOLAR READY ONLY (NO INSTALLATION REQUIREMENTS FOR SYSTEM COMPONENTS).
- PLANS INCLUDE ADD ALTERNATE WORK FOR BOTH THE PV AND BATTERY ENERGY STORAGE SYSTEMS.
- ADD ALTERNATE CONTRACT DESCRIPTIONS IDENTIFY MINIMUM BASE SCOPE OF WORK FOR SOLAR READY.

- ADD ALTERNATE NO. 2: SOLAR ON BUILDING ROOF (ARRAY 1)
- ADD ALTERNATE NO. 3: SOLAR ON PARKING STRUCTURE (ARRAY 2)
- ADD ALTERNATE NO. 5: MICROGRID SYSTEM (BATTERY ENERGY STORAGE)

PHOTOVOLTAIC SYSTEM VALUES:

- BUILDING PERFORMANCE ENERGY MODEL SHOWS A YEARLY PROJECTED USAGE OF **53,000 KWH PER YEAR**.
- THE PROJECT PV SYSTEM (AS DESIGNED) CAN GENERATE **61,000 KWH PER YEAR** WITH STANDARD WEATHER CONDITIONS.

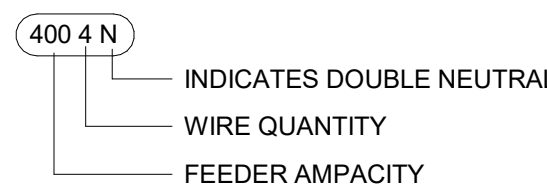
BATTERY ENERGY STORAGE SYSTEM (WITH MICROGRID OPERATION):

- BUILDING ELECTRICAL DESIGN LOADS SHOW A YEARLY PEAK POWER REQUIREMENT OF **167 kW** PEAK USAGE.
- THE PROJECT BATTERY SYSTEM (AS DESIGNED) CAN SUPPORT UP TO **125 kW** PEAK OUTPUT.
- THE PROJECT DIESEL GENERATOR (AS DESIGNED) CAN SUPPORT AN ADDITIONAL **75 kW** PEAK OUTPUT.
- THE PROJECT BATTERY SYSTEM (AS DESIGNED) CAN SUPPORT **176 KWH** OF ENERGY STORAGE.
- DAILY KWH USAGE IS NOT KNOWN (DEPENDENT ON HOW THE BUILDING IS USED). BASED ON THE **53,000 KWH** PROJECTED ANNUAL BUILDING USAGE, DAILY USAGE COULD BE +/- **145 KWH PER DAY**.
- THE BATTERY SYSTEM COULD SUPPORT THE 145 KWH PER DAY USAGE FOR **30 TO 36 HOURS OF BACKUP**, WITHOUT PV OR UTILITY GRID SUPPORT.
- BACK-UP WOULD BE MUCH LONGER (OR INDEFINITE) WITH DAILY SOLAR PV GENERATION AND GENERATOR BACK-UP.

COPPER FEEDER SCHEDULE

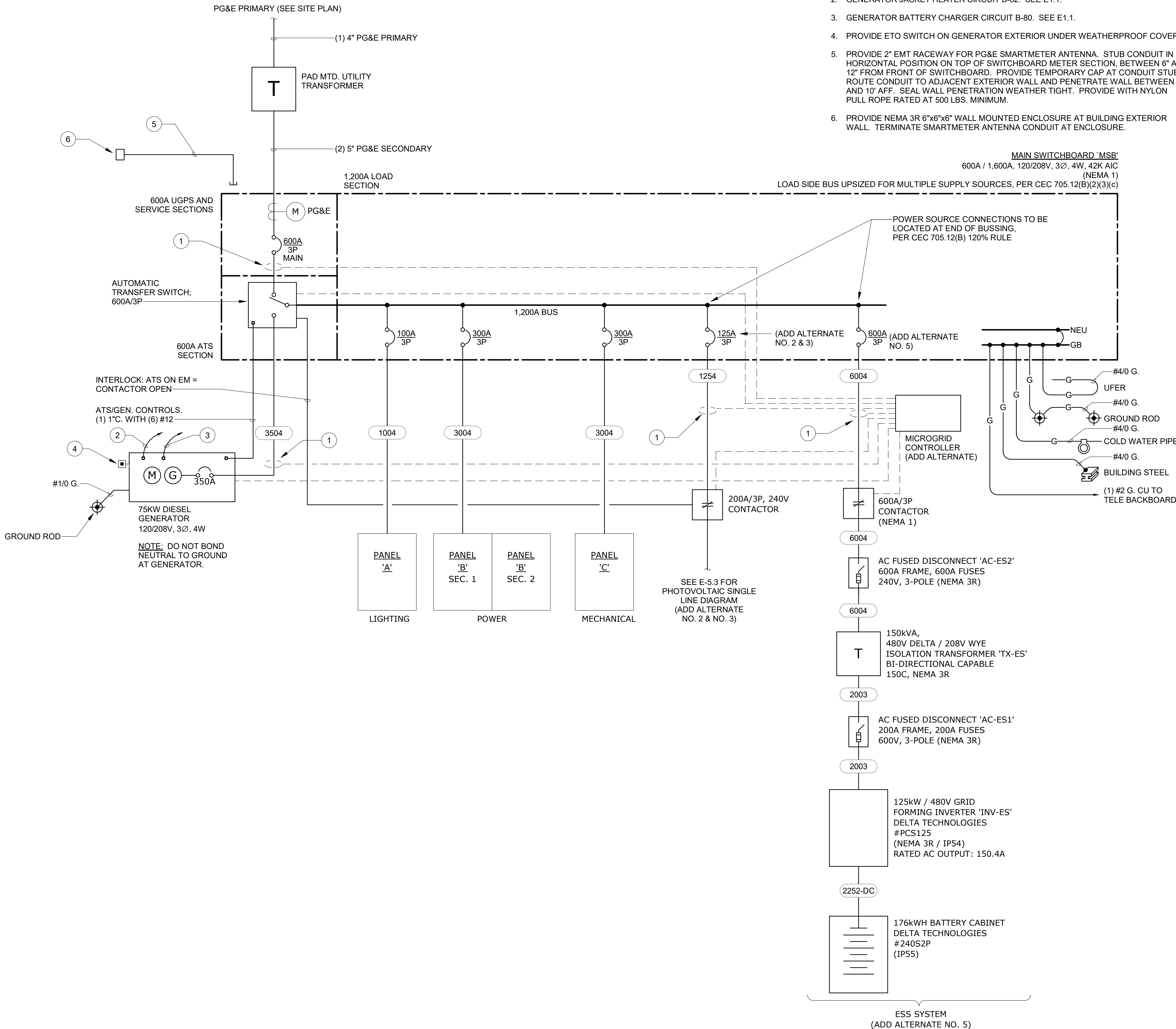
ID	CONDUIT	CONDUCTORS
6004	(2) 3"	(2) SETS: (4) 300 MCM & (1)#1 G.
3504	(1) 4"	(4) 500 MCM & (1)#2 G.
3004	(1) 3"	(4) 350 MCM & (1)#2 G.
2252-DC	(1) 2"	(2) #4/0 & (1)#4 G.
2003	(1) 2"	(3) #3/0 & (1)#6 G.
1254	(1) 2"	(4) #1 & (1)#6 G.
1004	(1) 2"	(4) #1 & (1)#6 G.

FEEDER TAG KEY

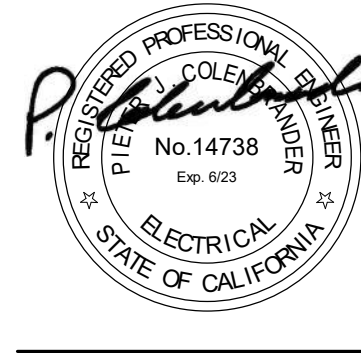


# DETAIL NUMBERED NOTES

1. PROVIDE AND INSTALL 3-PHASE CT'S FOR FEEDER AMP MEASUREMENT.
2. GENERATOR JACKET HEATER CIRCUIT B-82. SEE E1.1.
3. GENERATOR BATTERY CHARGER CIRCUIT B-80. SEE E1.1.
4. PROVIDE ETO SWITCH ON GENERATOR EXTERIOR UNDER WEATHERPROOF COVER.
5. PROVIDE 2\"/>



1 SINGLE LINE DIAGRAM - POWER  
NOT TO SCALE



PROJECT:

CITY OF MORGAN HILL

BUTTERFIELD FIRE  
STATION

17285 Butterfield Blvd.  
Morgan Hill, CA 95037



DESCRIPTION:

95% CONSTR. 01/16/23  
DRAWINGS  
100% CONSTR. 03/23/23  
DRAWINGS

DATE:

NOT FOR  
CONSTRUCTION

PROJECT NUMBER:

211101

SHEET TITLE:

POWER SINGLE  
LINE DIAGRAM  
& LOW  
VOLTAGE  
DIAGRAMS

SHEET NUMBER:

E5.1