

ADDENDUM 2

Vestavia Hill Fire Station No. 4 Expansion

Owner:

City of Vestavia Hills

Executive Conference Room

1032 Montgomery Hwy

Vestavia Hills, AL 35216

Architect:

Williams Blackstock Architects

2204 1st Avenue South, Suite 200

Birmingham, AL 35233

ph. 205-252-9811

DATE: **August 12, 2026**

TO: All Bidders

Acknowledge receipt of this Addendum by inserting its number in the Proposal Form. Failure to do so may subject Bidder to disqualification. This serves as an addendum to the construction documents and modifies and/or supplements them as follows:

1. CLARIFICATIONS

1. Bidder Questions: See attached Pre-Bid RFI Log for questions and responses issued to date.
2. Alert System Shop Drawings: For reference, the Alert System Shop Drawings have been included in this addendum to coordinate with Electrical scope of work. These drawings are provided FOR REFERENCE ONLY.

1. SPECIFICATIONS

1. Section 23 8700 – Outlets :
 - a. Storm Louvers added to section.

2. DRAWINGS

LANDSCAPE

1. L-100 – IRRIGATION PLAN:
 - a. Reduced irrigation coverage to accommodate reduction of plant material
2. L-200 – HARDSCAPE PLAN & DETAILS:
 - a. Removed synthetic turf
3. L-300 – LANDSCAPE PLAN:
 - a. Removed all American Beautyberry (CAM)
 - b. Removed all Little Henry Sweetspire (IVS)
 - c. Removed 43 Don's Dwarf Waxmyrtle (MCD)
 - d. Added 1585 SF of Empire Zoysia

STRUCTURAL

1. S1.01 – GENERAL NOTES:
 - a. General notes revised per Storm Shelter Peer Review Comments. See Revision Clouds.
2. S2.01 – FLOOR AND FOUNDATION PLAN:
 - a. “Similar” note added to sections and foundation dimensions added per Bidder RFI #1 comment received 07/13/26.
3. S3.04 – SECTIONS:
 - a. Note revised per Storm Shelter Peer Review Comments. See Revision Cloud.

ARCHITECTURAL

4. G000 – COVER:
 - a. Sheet A112 has been added to the drawing index. Sheet was previously issued but was not included in index.
5. LS102 – STORM SHELTER DESIGN INFO:
 - a. General Note, “ALL PENETRATIONS 2" OR GREATER MUST BE BAFFLED TO PREVENT INTRUSION OF DEBRIS DURING A STORM EVENT.” added to Storm Shelter Requirements
 - b. Drawing 2/LS102: Two-hour rating shown for ceiling/deck assembly at Storm Shelter for clarification
 - c. Storm Shelter door 130A has been revised to swing out. See revision clouds.
6. A-101 – FLOOR PLAN LEVEL 1:
 - a. Storm Shelter door 130A has been revised to swing out. See revision clouds.
7. A-803 – DOOR SCHEDULE:
 - a. Doors 116, 117, and 123A have been revised to Hollow Metal per bidding RFI #7 response. See revision clouds.
 - b. Door 130A has been revised to Hollow Metal per RFI #5 response. Door frame type has been revised to F13 as part of response. See revision clouds.
 - c. “ICC 500 Compliant” has been added to the comments for door 130A.

MECHANICAL

1. M-101 – MECHANICAL FLOOR PLAN:
 - a. Control diagram added and sequence updated on sheet M-101. Inverter powers the ventilation fan and damper is powered close and will open upon a loss of power.

PLUMBING

2. P-001 – PLUMBING SCHEDULES, DETAILS, AND NOTES:
 - a. Updated grease interceptor detail.
 - b. Updated grease interceptor specification.
3. P-101 – PLUMBING FLOOR PLAN
 - a. Added line showing shelter extents to pressure and non-pressure plans.
 - b. Updated grease interceptor size on floor plan.
 - c. Updated gas meter load.
 - d. Updated gas pipe routing to apparatus bay heaters.
4. P-102 – PLUMBING MEZZANINE & ATTIC FLOOR PLAN
 - a. Updated gas pipe routing to apparatus bay heaters.
 - b. Updated note regarding gas piping.
5. P-201 – PLUMBING RISERS
 - a. Updated risers to reflect floor plan changes.

FIRE PROTECTION

1. FP-100 – FIRE PROTECTION FLOOR PLAN:
 - a. Added line showing shelter extents.

ELECTRICAL

1. E-001 – GENERAL NOTES, SYMBOLS & LIGHT FIXTURE SCHEDULE:
 - a. Added floor outlet symbol per Bidder RFI #19
 - b. Revised General Note #26 for access control and CCTV conduit per RFI #17.
2. E-004 – DETAILS:
 - a. New sheet issued. Added detail drawing for cable specifications.
3. E-005 – SITE PLAN - ELECTRICAL:
 - a. New sheet issued.
4. E-006 – SITE PLAN - PHOTOMETRIC:
 - a. New sheet issued.
5. E-201 – FLOOR PLAN - LIGHTING:
 - a. Added note on floor plan showing the Storm Shelter boundary.
6. E-301 – FLOOR PLAN – POWER & VOICE DATA:
 - a. Added note on floor plan showing the Storm Shelter boundary.
7. E-401 – FLOOR PLAN – FIRE ALARM:
 - a. Added note on floor plan showing the Storm Shelter boundary.
8. E-501 – FLOOR PLAN – ELECTRICAL CONNECTION TO MECHANICAL:
 - a. New sheet issued. Added drawing for Electrical connection to Mechanical.
9. E-601 – FLOOR PLAN – ACCESS CONTROL & CCTV:
 - a. Added note on floor plan showing the Storm Shelter Boundary.
10. E-602 – FLOOR PLAN – ALERT SYSTEM DEVICE LAYOUT PLAN:
 - a. Added drawing for alert system device layout to coordinate with Alert System Shop Drawings.
11. E-603 – FLOOR PLAN – ALERT SYSTEM CONDUIT LAYOUT PLAN:
 - a. Added drawing for alert system conduit layout to coordinate with Alert System Shop Drawings
12. E-604 – ALERT SYSTEM DETAILS:
 - a. Added drawing for alert system details to coordinate with Alert System Shop Drawings.

3. ATTACHMENTS

CLARIFICATIONS

- | | |
|-------------------------------|-------------------|
| 1. Pre-Bid RFI Log | (8.5x11, 2 pages) |
| 2. Alert System Shop Drawings | (24x36, 8 page) |

SPECIFICATIONS

- | | |
|------------------------------|-------------------|
| 1. Section 23 8700 – Outlets | (8.5x11, 12 page) |
|------------------------------|-------------------|

DRAWINGS

- | | |
|---|-----------------|
| 1. L-100 – IRRIGATION PLAN | (30x42, 1 page) |
| 2. L-200 – HARDSCAPE PLAN & DETAILS: | (30x42, 1 page) |
| 3. L-300 – LANDSCAPE PLAN : | (30x42, 1 page) |
| 4. G000 – COVER: | (30x42, 1 page) |
| 5. LS102 – STORM SHELTER DESIGN INFO: | (30x42, 1 page) |
| 6. A-101 – FLOOR PLAN LEVEL 1: | (30x42, 1 page) |
| 7. A-803 – DOOR SCHEDULE: | (30x42, 1 page) |
| 8. M-101 – MECHANICAL FLOOR PLAN: | (30x42, 1 page) |
| 9. P-001 – PLUMBING SCHEDULES, DETAILS, AND NOTES: | (30x42, 1 page) |
| 10. P-101 – PLUMBING FLOOR PLAN: | (30x42, 1 page) |
| 11. P-102 – PLUMBING MEZZANINE & ATTIC FLOOR PLAN: | (30x42, 1 page) |
| 12. P-201 – PLUMBING RISERS: | (30x42, 1 page) |
| 13. FP-100 – FIRE PROTECTION FLOOR PLAN: | (30x42, 1 page) |
| 14. E-001 – GENERAL NOTES, SYMBOLS & LIGHT FIXTURE SCHEDULE: | (30x42, 1 page) |
| 15. E-004 – DETAILS: | (30x42, 1 page) |
| 16. E-005 – SITE PLAN - ELECTRICAL: | (30x42, 1 page) |
| 17. E-006 – SITE PLAN - PHOTOMETRIC: | (30x42, 1 page) |
| 18. E-201 – FLOOR PLAN - LIGHTING: | (30x42, 1 page) |
| 19. E-301 – FLOOR PLAN – POWER & VOICE DATA: | (30x42, 1 page) |
| 20. E-401 – FLOOR PLAN – FIRE ALARM: | (30x42, 1 page) |
| 21. E-501 – FLOOR PLAN – ELECTRICAL CONNECTION TO MECHANICAL: | (30x42, 1 page) |
| 22. E-601 – FLOOR PLAN – ACCESS CONTROL & CCTV: | (30x42, 1 page) |
| 23. E-602 – FLOOR PLAN – ALERT SYSTEM DEVICE LAYOUT PLAN: | (30x42, 1 page) |
| 24. E-603 – FLOOR PLAN – ALER SYSTEM CODUIT LAYOUT PLAN: | (30x42, 1 page) |
| 25. E-604 – ALERT SYSTEM DETAILS: | (30x42, 1 page) |

Total Addendum No.1 Pages including this document:

45 pages

END OF ADDENDUM #2



Preconstruction RFI Log

Project Name: Vestavia Hills Fire Station No. 4 Expansion

Project Location: Vestavia Hills, AL

Estimate #: 25636

Owner: City of Vestavia Hills

Architecture Firm: Williams Blackstock Architects

Project Architect: Matt Foley

RFI #	Scope	Location			Question / Clarification	Date Submitted	Response	Date Responded
		Detail	Sheet	Spec				
1	Continuous Footing		S2.01, S3.02		Per Sheet S2.01, the far East wall on the plan view has a continuous footer that is scaled to be 4' wide. On the contrary, sections 1, 3, and 4 located on sheet S3.02, have this continuous footer to be 2' 6" wide. Please clarify the width of this continuous footer. See photo attached for clarification.	07/13/26	The continuous footing for the easternmost wall (along grid B4) should be 4'-0" wide as indicated in sections 5/S3.02 and 6/S3.02. Sections 1, 3, and 4 along this wall will be noted in an upcoming revision on sheet S2.01 as "similar" for clarification.	08/07/26
2	Geogrid / Guardrail Interference		C-400		After reviewing the details for the segmented block retaining wall geogrids, along with the vehicle guardrail detail located on C-400, it appears the two could interfere with each other. Will these wooden quardrail posts require a certain type of sleeving? It appears the geogrids are running towards the direction of those guardrail posts/sleeves. Will we need to modify those geogrids in any way so the wooden post can pass through them? Any clarification would be helpful. Thank you!	07/15/26	Any geogrid work around the guardrail posts should be accounted for in the wall design.	08/11/26
3	Hollow Metal Doors and Frames Guage			08 1113	The hollow metal doors and frames specification has contradictions regarding the guage of the doors. It lists 20, 16 and 14 guages withing the same section. Please clarify which is correct. (Shelby)	07/22/26	Specification 08 1113 has been revised for clarification as part of Addendum #1.	08/07/26
4	Interior Door Frame Material	7	A-803		The door schedule list the interior door frames as being WD material, but the only details and elevations provided list them as being hollow metal, and a note that says "ALL FRAMES TO BE FACE WELDED". Please clarify the material.	07/22/26	Door frames are intended to be HM. Door schedule to be revised as part of a future Addendum.	08/07/26
5	FEMA rated door no. 130A material	7	A-803		Door 130A has a note on the door schedule that the door is a "Storm Shelter, FEMA Rated". Wood doors cannot be FEMA rated, nor is the hardware listed for this door acceptable for a FEMA rated assembly. Please clarify.	07/22/26	Door 130A is intended to be a hollow metal, FEMA rated door. Door schedule and hardware to be updated.	08/07/26
6	Door no. 123B and 122B material	7	A-803		Door no. 123B is listed as Hollow Metal material, but no. 122B is listed as Wood material. Since these are located adjacent to each other and are both located off of the truck bay, please clarify if this was the intent or if they both are to be hollow metal.	07/22/26	Door 123B is to be hollow metal and painted to match existing App Bay doors. Door 122B is to be wood to match other interior doors at the new addition.	08/07/26
7	Door Frame Type no. 116, 117 and 123A	7	A-803		Frames 116, 117 and 123A are listed to be type F13 masonry frame with a 4" head face, but they don't seem to be located at a location/wall where that is necessary. Please clarify.	07/22/26	Doors 116, 117, and 123A are intended to be F1 frame types as those doors are in gyp bd partitions. The door schedule will be updated accordingly as part of a future Addendum.	08/07/26
8	ADEM Permit				Will an ADEM Construction Permit be required for this project? It is understood that this site footprint will be close to an acre. (Shelby)	08/03/26	An ADEM permit is being secured at this time.	08/11/26
9	Sanitary Tap Sizing				What is the size of the sanitary sewer tap we are connecting the 6" sanitary line to? Referencing the sanitary sewer line that runs North of the fire station towards the stub out. (Shelby)	08/03/26	The sanitary lateral size on site shall be 6" dia. As shown on C100. Ref. p- drawings for stubs out of the building.	08/11/26
10	Steel Fabricators AISC Certification		S1.02		Do all steel fabricators and erectors need to be AISC certified? Referencing note "Steel Construction (IBC 1705.2)" located on page S1.02 (Shelby)	08/03/26	Steel fabricators and erectors do not need to be AISC certified if they can provide at least 3 project examples of similar scope from within a 5 year period for us to review.	08/11/26
11	OFCI or CFCl Appliances				Are appliances owner furnished, contractor installed or contractor furnished, contractor installed? (Shelby)	08/03/26	Appliances shown on APPLIANCE LEGEND on sheet A-701 are to be Contractor Furnished, Contractor Installed (CFCl)	08/07/26
12	Exposed Ceiling Finishes		A-111		What is the design intent for the exposed ceiling finishes within the bay, exercise room, and dayroom? Are any of these exposed ceilings to be painted or primed? See page A-111. (Shelby)	08/03/26		
13	Electrical		E-001		General Note 26 calls for EC to provide empty raceway for Access Controls and CCTV - Camera Systems and Access Control Symbols instructs EC to provide cabling for CCTV to camera locations. Please clarify is the intent is to provide empty raceways for Access Controls and CCTV, with cabling provided by others. (CT)	08/04/26	General Note #26 revised for access control and CCTV conduit/cabeling as part of Addendum #2.	08/12/26
14	Electrical		E-001, E-602		EC is instructed to review "A/V contract documents", and "Alert System shop drawings" for information prior to bid. Are these documents available? (CT)	08/04/26	Alert System Shop Drawings have been included FOR REFERENCE as part of Addendum #2.	08/12/26
15	Electrical		E-301		Multiple floor receptacles are shown on the drawings, that are not addressed in Graphical Electrical Symbols Legend, please advise as to what kind of floor outlets are required. (CT)	08/04/26	Floor outlet symbol added to sheet as part of Addendum #2.	08/12/26
16	Electrical		E-001		Multiple references to sheet E-004, I am not seeing this sheet in the E drawings. Also, I am not seeing any electrical site drawings. (CT)	08/04/26	Sheet has been issued as part of Addendum #2.	08/12/26
17	Electrical				I am not seeing any drawings that include sizes or locations of disconnecting means for any mechanical or plumbing equipment. (CT)	08/04/26	Sheet E-501 "ELECTRICAL CONNECTION TO MECHANICAL" has been added as part of Addendum #2.	08/12/26
18	Staffing Requirements			01 3010	Spec section 01 3010 references the following staffing required: "1.04 Minimum Staffing Requirements A. The minimum GC Project Team required full time for the entire duration of the project include: 1. Superintendent 2. Assistant Superintendent 3. Project Manager 4. 2 Field Engineers 5. Safety Director (full time on site NOT required, just routine site visits)" GC requests to use 1 full time superintendent on site, with project manager working from GC's office with frequent site visits. (Duncan & Dearmon)	08/10/26	Please revise Spec Section 01 3010 to include the below staffing requirements: 1. Superintendent-(1) Full Time onsite 2. Project Manager-(1) Committed to this project, overseeing no more than (2) projects, that can work from their office with frequent site visits OR an Assistant Project Manager that is committed to this project only and under the oversight of a Project Manager who oversees multiple projects. 3. Field Engineering - to be performed by Site Superintendant OR Field Engineer (part time) OR each trade is to be responsible for their own layout to be verified by Site Superintendant. 4. Safety Director - (Several Visits)	08/12/26
19	Specifications				It appears that the following spec sections are included but not needed: 07 2400 - EIFS 07 3126 - Synthetic slate shingles 09 8413 - Sound absorption panels 10 1100 - Visual display board - markerboards and tackboards 10 5100 - Metal lockers, locker benches - lockers appear to be millwork, do not see any benches 11 6623 - Gym Equipment - lists 5 products, and references 01 2100 Allowances 11 5213 - Projection screens & projector lifts - did not see on plans, please provide a count & location. If I am mistaken, apologies, but please give me some direction on where to find these items. (Duncan & Dearmon)	08/10/26	07 2400 – EIFS – Remove spec section in its entirety 07 3126 - Synthetic slate shingles – Remove spec section in its entirety 09 8413 - Sound absorption panels – Remove spec section in its entirety 10 1100 - Visual display board - markerboards and tackboards – Remove spec section in its entirety 10 5100 - Metal lockers, locker benches - lockers appear to be millwork, do not see any benches – Remove spec section in its entirety; lockers, benches are millwork 11 6623 - Gym Equipment - lists 5 products, and references 01 2100 Allowances – Remove spec section in its entirety 11 5213 - Projection screens & projector lifts - did not see on plans, please provide a count & location. – Remove spec section in its entirety	08/12/26
20	Bid Form			00 2118	Reference Spec Section 00 2118 – Bid Proposal Form; There is not a place on the bid form for the alternates.	08/11/26		
21	Alternate Clarification			01 2300	Reference Spec Section 01 2300 – Alternates; For determination of the low bidder, which is alternate 1 and which is alternate 2?	08/11/26		
22	EIFS Location			07 2400	Reference Spec Section 07 2400 Exterior Insulation and Finish Systems; Please identify where the EIFS is located.	08/11/26	Remove Spec Section 07 2400 in its entirety.	08/12/26

23	Exhibit A				Reference Exhibit A Prime Scope of Work 1. Division 1 General Requirements; Item 22 –is there a detail for the required fencing? 2. Division 1 General Requirements; Item 26 – Will mock-ups be required? Is there a detail for the mock-ups? 3. Division 12 Furnishings show ‘Not in Contract’, but there is a spec 12 2400 Window Roller Shade Systems. Are roller shades a part of the contract?	08/11/26	Architect Answer here....	
24	Electrical Sheets				It appears that the following sheets are missing - E004, E005, E006, E501 Also note that sheet A112 is included in the pdf, but not listed on the G-000 index. (Duncan and Dearmon)	08/11/26	E004, E005, E006, and E501 are to be issued as part of Addendum #2. A112 has been added to the G-000 as part of Addendum #2	08/12/26
25	Lockers		A-101, A-722	105100	1. Per sheet A-101, are the lockers the ones with the designation of "LK1"? 2. Details 7 and 12 on sheet A-722 call for the lockers to be millwork lockers. Specification section 105100 calls for metal lockers. Please clarify what is to be followed. (Wyatt Builds)	08/13/26		
26	Roofing Material				Please see questions below. Thanks, 1. ASTM D1970 is a testing requirement for self-adhering polymer modified bitumen sheet material. The Basis of Design GAF Deck Armor underlayment meets ASTM 8257 (mechanically attached polymeric roof underlayment), D226, and D4869 (both asphalt-saturated organ roofing felt). GAF Tiger Paw meets ASTM D226 and D4869. Both meet the other listed requirements. Please confirm if either is acceptable. 2. ASTM D6380/D6380M is testing requirement for Asphalt Saturated Organic Felt. TAMKO Moisture Guard Plus, GAF Weather Watch, and Owens Corning Weather Lock G meets ASTM D1970 for Modified Bituminous Sheet All are self-adhering with mil weights between 40 – 55 mils. Please note TAMKO was not listed as an acceptable shingle manufacturer. Please confirm all are acceptable. (CT)	08/13/26		
27	Specifications			10 1400	Spec section 10 1400 appears to be for another project. (Duncan and Dearmon)	08/13/26		
28	Electrical		E-001		Graphical Electrical Symbols "Lighting Fixture & Control Symbols" reference a detail drawing located on sheet E006. I am not seeing this sheet. (CT)	08/13/26		
29	Electrical		E-001, E-201		Drawings show under cabinet lights in kitchen. These are not referenced in the Light Fixture Schedule. (CT)	08/13/26		
30	Electrical		E-201		Fixtures "D1" & "D1-E" show different symbols in the Kitchen and Vestibule than the other fixtures with the same fixture designation drawn on this page. Is there an intended meaning for these fixtures with differing symbols? (CT)	08/13/26		
31	Electrical		E-001		Fixture Schedule lists fixtures "Y" & "FP". I am not seeing any site drawings. Is site lighting part of the scope for this project? (CT)	08/13/26		
32	Roofing				1. Drawings call for MP2 Prefinished Aluminum Corrugated Rib Panels and MP3 Prefinished Aluminum Flush Soffit Panel. The Metal Wall & Soffit Panel Spec section Ext Wall Panels 2.02 B calls for 22 GA Flush joint, Metal Wall Panels 2.02C Steel Panels 24 GA Flush Joint, and 2.02 D Soffit Panels Precision Series Box rib Wall Panels 22 GA. Below is the PAC Clad 032 Aluminum Soffit Option. Please clarify if this is what is required for MP3 called for on the drawings. Below is the Precision Series Wall Panel options, and are available in 032 Aluminum, 22 and 24GA Steel. Please clarify if this is what is required for MP2 called for on the drawings and if they are to be 032 Aluminum.	08/14/26		
33	Roofing				The Shingle spec calls for Composite nail base insulated roof sheathing in section 2.04B. No nail base is called out in the details. Please clarify if any is required. (CT)	08/14/26		
34	Roofing	2, 3	A103		Detail 2 & 3/A103 Ridge Vent @ Roof Replacement and New Roof call for Pre-finished Aluminum Ridge Vent. The Ridge Vents are not listed in the Shingle or SMF&T spec. Please provide a Manufacturer, Model No, and required Aluminum thickness. (CT)	08/14/26		
35	Roofing	3	A311, A511		There is no specification for the Fully Adhered TPO roof shown on details 3/A311 & 3/A511 the Hose Tower. Please provide. (CT)	08/14/26		
36	Roofing	3	A311		Preparation for Re-Roofing spec Section 1.03 C calls for New Insulation – Complete removal of existing insulation and replace new insulation with same thickness and Repair Existing Roof Wood Decking – Replacing decking with new material of same thickness. Detail 3/A311 Existing Hose Tower calls for Single Ply Membrane Roofing over ½” CB over existing Roof Decking. Nothing is listed in the unit prices for deck replacement or insulation. Please clarify what is to be included in the bid proposal for repairs needed to existing wood decking and insulation system below. (CT)	08/14/26		
37	Roofing	7	A103		Detail 7/A103 calls for Stainless Steel Masonry Reglet, 24 GA Counterflashing, and prefinished aluminum counterflashing that is not referenced in the SMF&T spec. Is the Masonry Reglet 26 GA SS? Can all counterflashing be 26 GA? If Prefinished Aluminum is required, what is the thickness? (CT)	08/14/26		
38	Roofing				There is a conflict between the drawings and specifications for the gutter style and aluminum thickness. Please clarify if they are to be 040 Aluminum and if the gutter is K-Style or half round. Please confirm if they can be shop fabricated on 032 or 040 Aluminum. (CT)	08/14/26		
39	Roofing				Drawings call for prefinished Aluminum Coping. Roof Specialties spec calls for either Perma-snap or Anchor-Tite manufactured coping in 080 Aluminum. They can only be provided in 040, 050 or 063 Aluminum. Please clarify which is correct. Also, can the coping be shop fabricated in 040 or 050 Aluminum. (CT)	08/14/26		
40	Roofing				Roof Accessories call for a Roof Hatch. None is shown on the Roof Plans. Please confirm if required. (CT)	08/14/26		
41	Roofing				Please confirm if there is any work associated with the Synthetic Slate or Metal Roof Panel Spec included in the Project Manual. Nothing is shown in the drawings. (CT)	08/14/26		
42	Roofing				The Shingle spec lists GAF Timberline HD Reflector series as the Basis of Design. This shingle is only available in California. Also, this is a Class 4 Impact Resistant Shingle. If an impact resistant shingle is required, GAF Timberline HDZ meets that specification. There is no impact resistant requirement listed in 2.02A. Please confirm. If this requirement is not required, GAF and the other acceptable manufacturers have other options that can meet all the listed requirements. (CT)	08/14/26		
43	Roofing				The Ext Elevation Drawing shows exhaust hoods and other pipes penetrating the roof. None are shown on the Roof Plan, and there is not a Mechanical Roof Plan. Please provide a Mechanical Roof Plan. (CT)	08/14/26		

VESTAVIA HILLS FIRE STATION # 4
CITY OF VESTAVIA HILLS
13041 LIBERTY PKWY,
VESTAVIA HILLS, AL 35242



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REV	REVISION	DATE	BY



ALERT
SYSTEM

DRAWING INDEX

SHEET #	SHEET CONTENTS	4/28/2026	6/19/2026						
COVER	COVER SHEET	●	●						
AS1.1	ALERT SYSTEM 1ST FLOOR DEVICE PLAN	●	●						
AS3.1	ALERT SYSTEM 1ST FLOOR CONDUIT PLAN	●	●						
AS4.1	ALERT SYSTEM DEVICE DETAILS	●	●						
AS4.2	ALERT SYSTEM DEVICE DETAILS	●	●						
AS4.3	ALERT SYSTEM DEVICE DETAILS	●	●						
AS4.4	ALERT SYSTEM DEVICE DETAILS	●	●						
AS4.5	ALERT SYSTEM DEVICE DETAILS	●	●						

PROJECT NAME:
VESTAVIA HILLS FIRE STATION # 4
13041 LIBERTY PKWY,
VESTAVIA HILLS, AL 35242

NOTE:
IF THIS SCALE IS NOT 1",
THIS SHEET IS NOT TO SCALE.

01'0"

0

1

DATE: 04/28/2026

DRAWN BY: EV

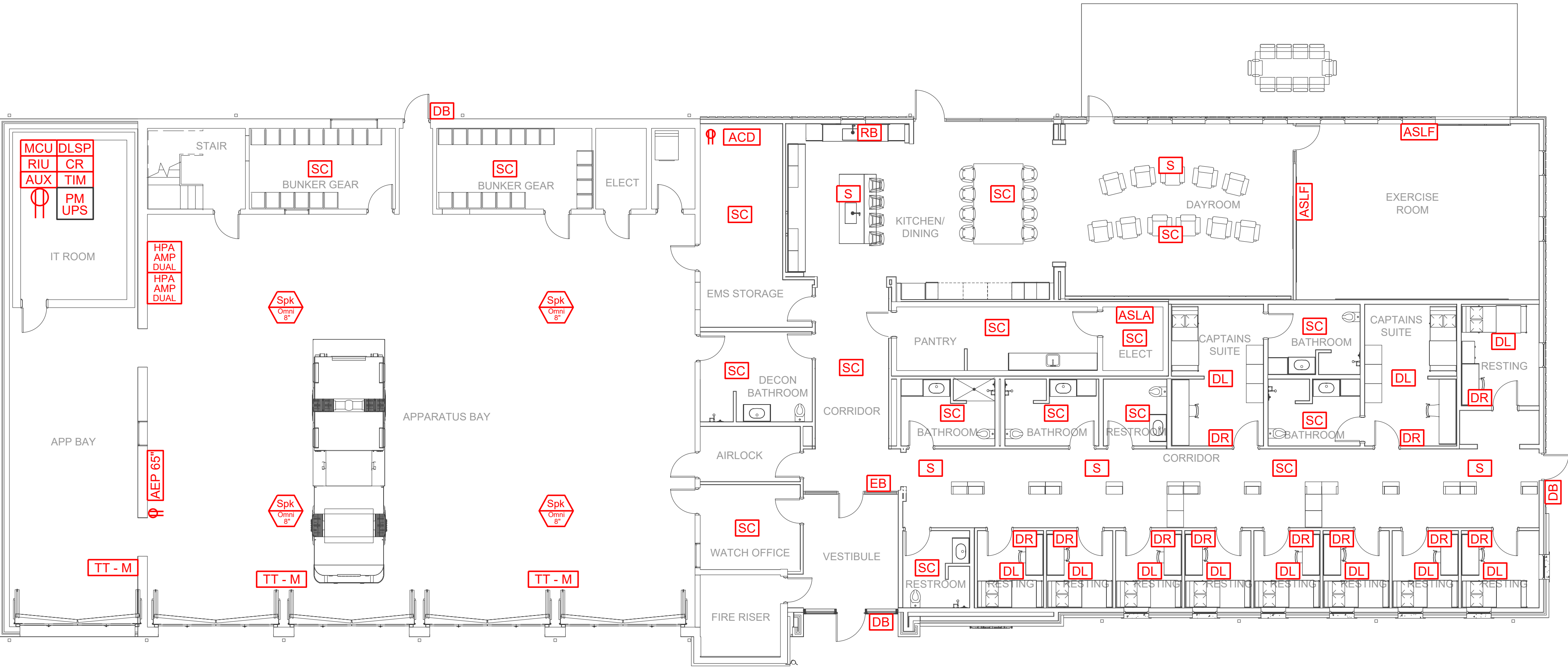
SCALE: N.T.S.

TITLE: COVER

SHEET

COVER

ALERT SYSTEM LAYOUT DRAWINGS – FOR REFERENCE



FIRST-IN FIRE
STATION ALERTING

SYMBOL LEGEND	
	MASTER CONTROL UNIT
	DATA LINE SURGE PROTECTOR
	CONTROL REMOTE
	TELEPHONE INTERFACE MODULE
	RADIO ISOLATION UNIT
	AUXILIARY MODULE
	POWER MODULE WITH UPS-BLACK (REQUIRED DEDICATED CIRCUIT 120V)
	SATELLIGHT CONTROLLER
	SATELLIGHT
	APPLIANCE CONTROL DEVICE (DEDICATED 120V CIRCUIT REQUIRED)
	APPLIANCE RESET BUTTON
	ALERTING STROBE LIGHT FIXTURE - IN CONJUNCTION WITH 
	ALERTING STROBE LIGHT ADAPTER
	DORM REMOTE
	DORM LIGHT
	DOORBELL BUTTON
	EMERGENCY BUTTON
	8" OMNI DIRECTIONAL SPEAKER
	HIGH-POWERED AMPLIFIER MODULE DUAL
	TURNOUT TIMER MEDIUM
	ALERTING END POINT 65° (120V POWER REQUIRED)

GENERAL NOTES

- DEVICES ARE TYPICAL AND FOR REFERENCE ONLY.
- ALL BACK BOXES & CONDUITS ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE SPECIFIED FOR NEW CONSTRUCTION.
- DEVICES LOCATED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACKBOXES
- DEVICES LOCATED IN ACOUSTICAL CEILINGS REQUIRE ACOUSTICAL WESTNET MOUNTING KIT (SSATKIT-A)
- DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE HOFFMAN BRAND 8X10X4 BACKBOX
- DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE APPROPRIATE WESTNET MOUNTING KIT (SURFACE MOUNT OR FLUSH MOUNT) FOR NEW CONSTRUCTION.
- LOCATIONS OF DEVICES DETERMINED AT INSTALLATION BY INSTALLER FOR NEW CONSTRUCTION.
- SEE ARCHITECTURAL SPECIFICATION FOR ALL ROUGH-IN AND INSTALLATION DETAILS FOR NEW CONSTRUCTION.
- INSTALLER TO VERIFY WALL AND CEILING TYPE TO DETERMINE NEED FOR FLUSH OR SURFACE MOUNT INSTALLATION OF EQUIPMENT SPECIFIED FOR NEW CONSTRUCTION.
- ALL WIRING AND DEVICES TO BE INSTALLED BY WESTNET.
- ALL PENETRATION TO EXTERIOR DEVICES MUST BE WEATHERPROOF AND FIRE CAULKED FOR CONSTRUCTION BY OTHERS.
- DEVICES LOCATED IN BATHROOM/SHOWER AREAS MUST BE VISIBLE FROM SHOWERS. INSTALLER TO FIELD VERIFY DEVICE LOCATION. (TYPICAL)
- ALL DEVICES MUST BE KEPT CLEAR OF OBSTRUCTIONS & CEILING FAN BLADES.
- IN ACOUSTICAL CEILING (T-BAR), WIRE CABLING IS FREE WIRE (NOT IN CONDUIT).
- IN GYPSUM BOARD CEILING (SHEET ROCK / HARD LID), WIRE CABLING IN IN 3/4" CONDUIT UNLESS CONDUIT SIZE OTHERWISE NOTED.
- IN EXPOSED AREAS ONLY 8X10X4 HOFFMAN BACK BOX MOUNTED AT +10'-0" A.F. MAX. WITH OPEN FACE DOWN IN CENTER OF ROOM WITH 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE, KEEP CLEAR OF OBSTRUCTIONS.
- A 5 OHM EARTH GROUND MUST BE CONNECTED TO THE RADIO ISOLATION UNIT IN THE COMMUNICATION RACK.
- THE RADIO RECEIVING THE DISPATCH INFORMATION SHALL BE LOCATED WITHIN 6'-0" FT. OF THE RADIO ISOLATION UNIT.
- INSTALLER TO PROVIDE ONE ADDITIONAL UNCONNECTED BLUE CAT5 CABLE WITH RJ45 CONNECTORS ON BOTH ENDS BETWEEN THE MCU LOCATION AND EACH ALERTING END POINT FOR NETWORK CONNECTIVITY.



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REV	REVISION	DATE	BY



ALERT
SYSTEM

VESTAVIA HILLS FIRE STATION # 4
13041 LIBERTY PKWY.
VESTAVIA HILLS, AL 35242

PROJECT NAME:

NOTE:
IF THIS SCALE IS NOT 1"
THIS SHEET IS NOT TO SCALE

DATE: 04/28/2026

DRAWN BY: EV

SCALE: N.T.S.

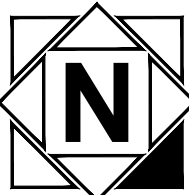
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SHEET

AS1.1

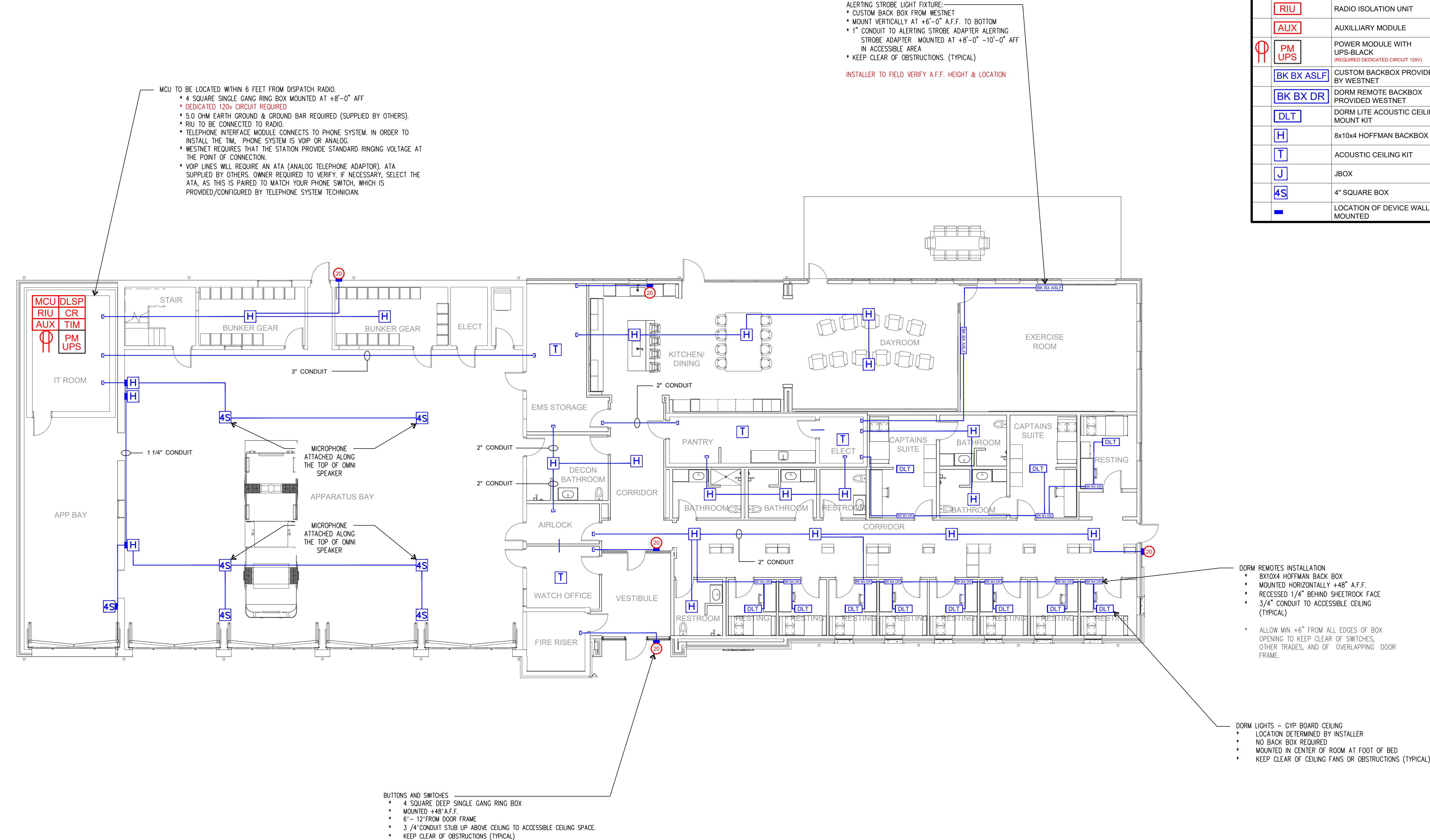
ALERT SYSTEM - 1ST FLOOR DEVICE LAYOUT PLAN

SCALE: N.T.S.



WESTNET/FIRST IN SYSTEM LAYOUT REVIEW	
PROJECT: VESTAVIA HILLS FIRE STATION # 4	
DEPARTMENT: VESTAVIA HILLS, AL	
DATE SUBMITTED:	
☐ Approved subject to notations and corrections as indicated.	
☐ Re-submit corrected Layout for our approval.	
☐ Re-submittal of Layout not required.	
☐ Rejected/Re-submit Layout	
Remarks:	
DATE RETURNED:	
REVIEWED BY:	
DEPT TITLE:	
This serves to Certify that this Layout submittal(s) have been reviewed for accuracy and compliance with the general conformance of the design and layout(only) with the Department Contract and/or Contract Documents.	
ONLY AFTER APPROVAL OF LAYOUT WILL SUBMITTAL INFORMATION AND QUOTES BE AVAILABLE	
Westnet, LLC. 15542 Chemical Lane Huntington Beach, CA 92649	Phone: (714) 548-3500 Fax: (714) 901-5610 www.FirstInAlerting.com

- NOTE:
1. CONDUIT ROUTING IS FOR REFERENCE ONLY
 2. CONDUIT INSTALLER PLACE PULL BOXES AS NEEDED
 3. CONDUIT BENDS NOT TO EXCEED 360 DEGREES
 4. UNDERGROUND CONDUITS NOT PERMITTED



FIRST-IN FIRE STATION ALERTING

SYMBOL LEGEND

MCU	MASTER CONTROL UNIT
DLSP	DATA LINE SURGE PROTECTOR
CR	CONTROL REMOTE
TIM	TELEPHONE INTERFACE MODULE
RIU	RADIO ISOLATION UNIT
AUX	AUXILIARY MODULE
PM UPS	POWER MODULE WITH UPS-BLACK (REQUIRED DEDICATED CIRCUIT 120V)
BK BX ASLF	CUSTOM BACKBOX PROVIDED BY WESTNET
BK BX DR	DORM REMOTE BACKBOX PROVIDED WESTNET
DLT	DORM LITE ACOUSTIC CEILING MOUNT KIT
H	8X10X4 HOFFMAN BACKBOX
T	ACOUSTIC CEILING KIT
J	JBOX
4S	4" SQUARE BOX
	LOCATION OF DEVICE WALL MOUNTED

GENERAL NOTES

1. DEVICES ARE TYPICAL AND FOR REFERENCE ONLY.
 2. ALL BACK BOXES & CONDUITS ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE SPECIFIED FOR NEW CONSTRUCTION.
 3. DEVICES LOCATED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACKBOXES
 4. DEVICES LOCATED IN ACOUSTICAL CEILINGS REQUIRE ACOUSTICAL WESTNET MOUNTING KIT (SSATKIT-A)
 5. DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE HOFFMAN BRAND 8X10X4 BACKBOX
 6. DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE APPROPRIATE WESTNET MOUNTING KIT (SURFACE MOUNT OR FLUSH MOUNT) FOR NEW CONSTRUCTION.
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 9. INSTALLER TO VERIFY WALL AND CEILING TYPE TO DETERMINE NEED FOR FLUSH OR SURFACE MOUNT INSTALLATION OF EQUIPMENT SPECIFIED FOR NEW CONSTRUCTION.
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 13. ALL DEVICES MUST BE KEPT CLEAR OF OBSTRUCTIONS & CEILING FAN BLADES.
 14. IN ACOUSTICAL CEILING (T-BAR), WIRE CABLING IS FREE WIRE (NOT IN CONDUIT).
 15. IN GYPSUM BOARD CEILING (SHEET ROCK / HARD LID), WIRE CABLING IN IN 3/4" CONDUIT UNLESS CONDUIT SIZE OTHERWISE NOTED.
 16. IN EXPOSED AREAS ONLY 8X10X4 HOFFMAN BACK BOX MOUNTED AT +10'-0" A.F.F. MAX. WITH OPEN FACE DOWN IN CENTER OF ROOM WITH 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. KEEP CLEAR OF OBSTRUCTIONS.
 17. A 5 OHM EARTH GROUND MUST BE CONNECTED TO THE RADIO ISOLATION UNIT IN THE COMMUNICATION RACK.
 18. THE RADIO RECEIVING THE DISPATCH INFORMATION SHALL BE LOCATED WITHIN 6'-0" FT. OF THE RADIO ISOLATION UNIT.
 19. INSTALLER TO PROVIDE ONE ADDITIONAL UNCONNECTED BLUE CAT5 CABLE WITH RJ45 CONNECTORS ON BOTH ENDS BETWEEN THE MCU LOCATION AND EACH ALERTING END POINT FOR NETWORK CONNECTIVITY.
- All Buttons and Switches
- 4 SQUARE DEEP SINGLE GANG RING BOX
 - MOUNTED +48" A.F.F.
 - 6" - 12" FROM DOOR FRAME
 - 3/4" CONDUIT STUB UP ABOVE CEILING TO ACCESSIBLE CEILING SPACE.
 - KEEP CLEAR OF OBSTRUCTIONS (TYPICAL)
 - 3/4" CONDUIT TO MCU LOCATION
- ACD
- LOCATED WITHIN 24" OF THE COOKTOP
 - 4 SQUARE DEEP SINGLE GANG RING BOX
 - 3/4" CONDUIT FROM STOVE RESET BUTTON TO ACD. ACD TO BE IN AN ACCESSIBLE CEILING SPACE. RESET BUTTON FOR BBQ AT 48" AFF. 3/4" CONDUIT FROM BBQ TO ACD.
 - KEEP CLEAR OF OBSTRUCTIONS (TYPICAL)

WESTNET/FIRST IN SYSTEM LAYOUT REVIEW

PROJECT: VESTAVIA HILLS FIRE STATION # 4

DEPARTMENT: VESTAVIA HILLS, AL

DATE SUBMITTED:

☐ Approved subject to notations and corrections as indicated.

☐ Re-submit corrected Layout for our approval.

☐ Re-submission of Layout not required.

☐ Rejected/Re-submit Layout

Remarks:

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www.FirstInAlerting.com

WESTNET®



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BY	DATE	REVISION	REV



ALERT
SYSTEM

VESTAVIA HILLS FIRE STATION # 4
13041 LIBERTY PKWY.
VESTAVIA HILLS, AL 35242

PROJECT NAME:

NOTE:
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DATE: 04/28/2026

DRAWN BY: EV

SCALE: N.T.S.

TITLE: 1ST FLOOR CONDUIT PLAN

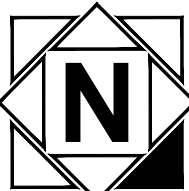
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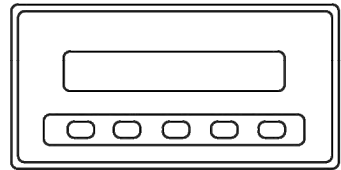
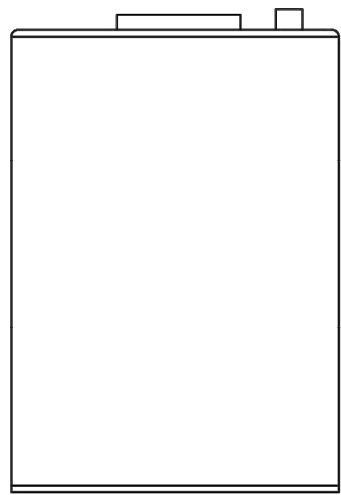
ALERT SYSTEM LAYOUT DRAWINGS – FOR REFERENCE

ALERT SYSTEM - 1ST FLOOR CONDUIT LAYOUT PLAN

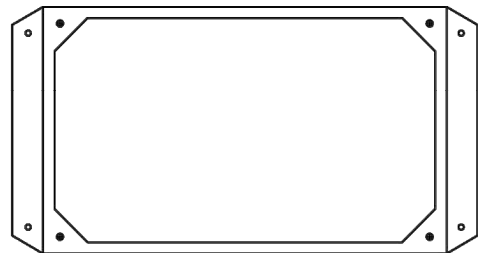
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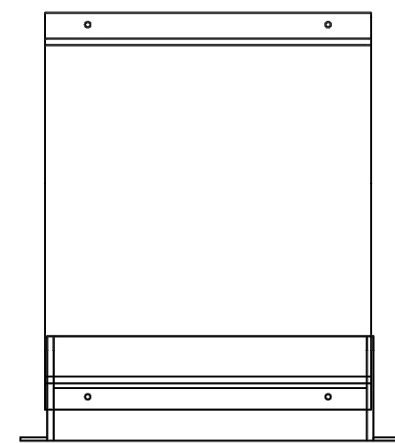
ALERT SYSTEM LAYOUT DRAWINGS – FOR REFERENCE



01 MASTER CONTROL UNIT - MCU
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.



02 CONTROL REMOTE - CR
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

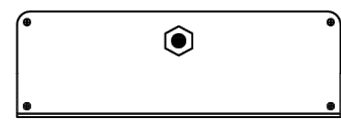
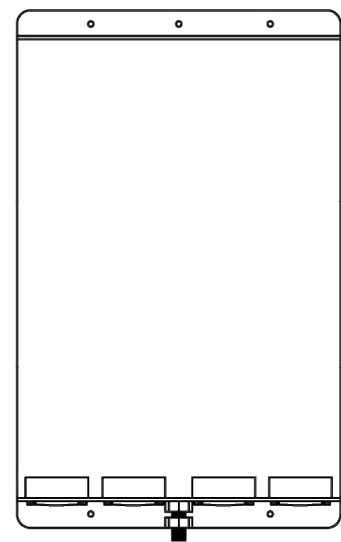


03 STATION PAGING MODULE - PAG
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

- MCU** MASTER CONTROL UNIT
- THE MASTER CONTROL UNIT IS THE COMMAND CENTER OF THE SMART STATION NETWORK.
 - THE MASTER CONTROL UNIT SHALL ACCEPT ALARM INPUTS FROM UP TO 4) RADIOS, DEDICATED PHONE LINES, POTS TELEPHONE LINES, SERIAL DATA LINES, AS WELL AS TCP/IP ETHERNET NETWORKS.
 - THE MASTER CONTROL UNIT SUPPORTS THE FULL ZIR COMMAND SET.
 - THE MASTER CONTROL UNIT SHALL MEET THE NFPA REQUIREMENT 1221 FOR SUPERVISED COMMUNICATIONS FOR ALERTING WITH THE DISPATCH CENTER.
 - ALARM AUDIO LEVELS SHALL BE CONTROLLABLE OVER A (30) DECIBAL RANGE IN (1) DECIBAL INCREMENTS.
 - RADIO AUDIO LEVELS SHALL BE CONTROLLABLE OVER A (30) DECIBAL RANGE IN (1) DECIBAL INCREMENTS.
 - THE ENTIRE FIRE STATION ALERTING LEVEL SHALL BE AUTOMATICALLY REDUCED AT NIGHT AND RETURNED TO NORMAL LEVELS IN THE MORNING AUTOMATICALLY.
 - OUTSIDE SPEAKERS SHALL BE AUTOMATICALLY TURNED OFF AT NIGHT AND TURNED BACK ON IN THE MORNING AUTOMATICALLY.
 - PRIMARY PROGRAMMING SHALL BE ACCOMPLISHED FROM THE FRONT PANEL, WHILE SECONDARY PROGRAMMING IS ACCOMPLISHED WITH THE SMART STATION SERVICE VIA COMPUTER.
 - FRONT PANEL PROGRAMMING SHALL BE LIMITED TO PLACING THE STATION ON RADIO WATCH OR REMOVING THE STATION FROM RADIO WATCH.
 - THE MASTER CONTROL UNIT SHALL BE POWERED FROM AN "ON-LINE" UPS FOR UNINTERRUPTIBLE ALERTING SERVICE.

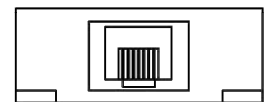
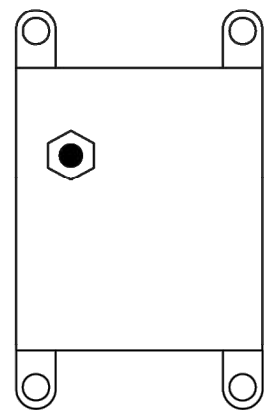
- CR** CONTROL REMOTE
- WHEN THE ALARM SYSTEM TRIGGERS, THE CONTROL REMOTE CAN OPEN BAY DOORS, TURN ON BAY LIGHTS, OPEN GATES, AND/OR SENSE INPUTS FROM CO DETECTORS IN APPARATUS BAYS.
 - PROVIDES (8) DOUBLE POLE, DOUBLE THROW (DPDT) RELAYS UNDER SOFTWARE CONTROL OF THE MASTER CONTROL UNIT.
 - PROVIDE (4) REMOTE SENSING INPUTS TO COLLECT DATA RELEVANT TO THE CONTROL FUNCTIONS.
 - ENABLES THE MASTER CONTROL UNIT TO OPERATE FIRE STATION ALERTING EQUIPMENT THAT IS NOT SMART STATION COMPATIBLE.
 - ALL RELAYS SHALL BE ZONE, TIME DELAY AND TIME OF DAY CONTROLLABLE IN ANY COMBINATION NECESSARY.
 - SHALL PROVIDE CONTROL AND SENSE CAPABILITY THROUGHOUT THE NETWORK AT ANY LOCATION.
 - RELAYS SHALL BE RATED AT (5) AMPS AT (24) VOLTS DC OR AC.
 - MECHANICAL LIFE OF THE RELAY CONTACTS SHALL BE A MINIMUM OF (5) MILLION OPERATIONS.
 - RELAYS SHALL BE USED TO CONTROL THE OVEN/RANGES IN THR KITCHEN, OPERATION OF EACH APPARATUS BAY DOOR INDEPENDANTLY, AND CONNECTION OF CARBON MONOXIDE SENSORS TO THE SYSTEM. COORDINATE ALL ELECTRICAL CONTACTS AND RELAYS REQUIRED FOR LINE VOLTAGE CIRCUITS TO INTERFACE WITH CONTROL REMOTE DEVICES.
 - WESTNET ALERT SYSTEM PROVIDES ONLY DRY CONTACTS RATED AT 24 VOLTS MAX., NO VOLTAGE IS SUPPLIED

- TIM** TELEPHONE INTERFACE MODULE
- SHALL BE UTILIZED FOR PAGING PERSONNEL WITHIN THE FIRE STATION.
 - SHALL INTEGRATE THE FIRE STATION TELEPHONE SYSTEM INTO ALL AUDIO UNITS, SUCH AS COMBINATION SPEAKER/LED LIGHT DEVICES, PROGRAMMABLE SPEAKER/RED GLOW LIGHT DEVICES AND HIGH POWER AMPLIFIERS.
 - REQUIRES CONDUIT SLEEVE TO STATION TELE/COMM ROOM



04 RADIO ISOLATION UNIT - RIU
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

- RIU** RADIO ISOLATION UNIT
- SURGE PROTECTION DEVICE CONNECTED TO RADIO ANTENNAS EXTEND GROUND WIRE FROM UNIT TO LIGHTING PROTECTION SYSTEM.



- DATA LINE SURGE SUPPRESSOR - DLSP
- SHALL BE UTILIZED FOR SURGE PROTECTION OF THE LAN FEED FROM SWITCH
 - SHALL BE GROUNDED TO 5 OHM GROUND PLATE
 - SHALL BE LOCATED WITHIN 6 FEET OF MCU

ALERTING SYSTEM OVERVIEW PLEASE READ

Most contractors are unfamiliar with what the Alerting System is and the capabilities of the system. The overall function of the alerting system is to reduce the response time of the received calls from 15 to 45 seconds using visual and audio alerts for dispatched units. This system is installed as a large communication loop utilizing CAT 5 cabling with very limited connections to the existing building.

There are several common questions that are generally asked during the rough in stages for our system:

Does the back box specified need to be a Hoffman Brand - Part #43050 - Cat #A-SE8X10X4 for Dorm Remotes (DR) and Satellite Controllers (SC)? YES, the mounting flanges for these devices specifically made for this type of box. This eliminates re-tapping of the box and quicker installation time.

Can power receptacles be relocated? YES, at a maximum of six (6) feet from plan indication.

Can conduit differ from plans? NO, the routing of the conduit is very specific and is the link from device to device creating the over all communication loop.

There is a spacing conflict with the Dorm Remote (DR), Thermostat, Light Switch, and Telephone location next next to the door jamb. Can this be relocated? YES, this can be moved away from the door jamb, generally between the light switch and thermostat is most common, for the occupants to monitor their dispatched calls. Refer to notes on AS.01. The mounting flange will require 18" space between light switch and next device for the horizontally mounted Hoffman back box.

Can devices be relocated? YES, but at a maximum of six (6) feet. Please keep in mind of equal spacing of devices for an even audio and visual coverage; this is important when announcing dispatched calls. Also, the cabling is pre-manufactured and is designated for that device. Relocation of devices at more than six (6) feet from indicated location will need approval by Westnet.

How is the Hoffman Brand - Part #43050 - Cat #A-SE8X10X4 boxes to be mounted? For Dorm Remotes (DR), the back box is to mount horizontally, 10" wide and 8" tall, recessed 1/8" into the sheetrock wall, at 48" to centerline, above finished floor. The mounting flange covers the back box opening and pulls flush against the sheetrock.

For Satellite Controllers (SC), that is to be mounted into sheetrock ceilings, the back box will run, the 10" side, with the length of the room, in the center, free from obstructions, avoiding other trades, recessed 1/8" into sheetrock, and mounted at a maximum of 15' above finished floor. Back boxes installed in open areas will be mounted at a maximum of 15' above finished surface, free from obstructions, avoiding other trades, recessed 1/8" into sheetrock, and mounted at a maximum of 15' above finished floor. Back boxes installed in open areas will be mounted at a maximum of 15' above finished surface, free from obstructions, with length of room, and visible from all points in the rooms. Westnet does not assume the responsibility for poor installation of back boxes. Refer to notes on AS.01.

What is the function of the Control Remote (CR)? This device can perform multiple functions, opening apparatus bay doors, gates, corridor lighting, etc. Any equipment that shows to be connected that are to be controlled by the CR will need a control voltage of 24 Volts that is NOT supplied by Westnet. The terminal rating is a maximum of 24V on the CR.

What is the MCU? This is the brains of the system. Received calls go thru this device and are announced throughout the system. This is most commonly the only connection that is made to the existing communications. This is to be located within six (6) feet of the dispatch radio in watch room or communication center of station.

These are just a few of the issues that you may have questions about. There is to be no alteration of the system without the approval of Westnet.

If there are more questions or concerns about the rough in for installation, please call 1-800-807-1700

REV	REVISION	DATE	BY



**ALERT
SYSTEM**

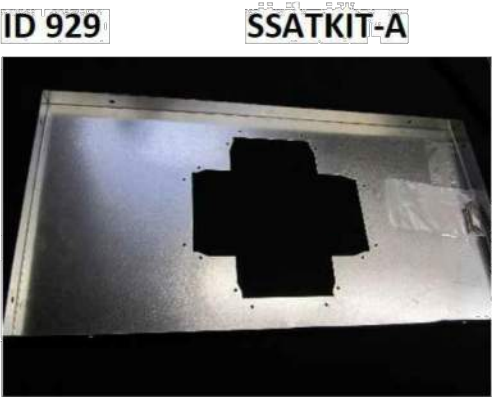
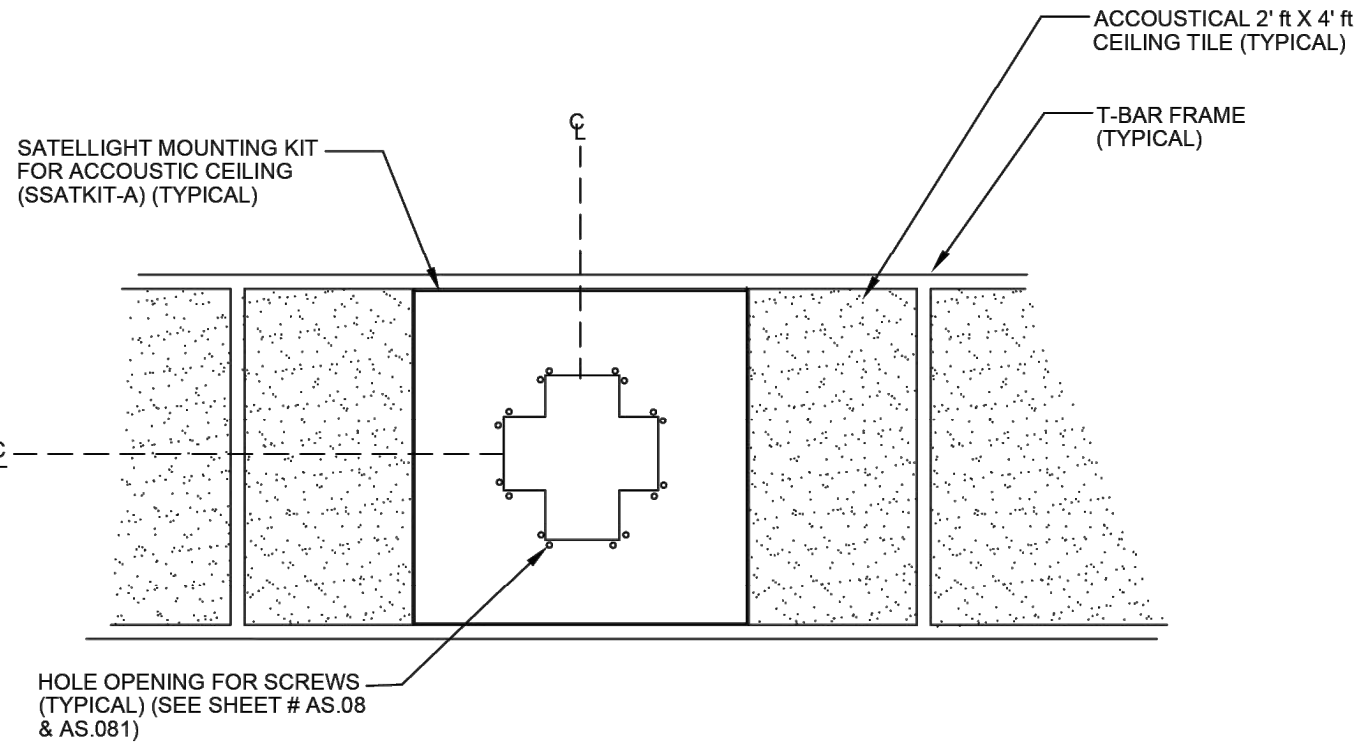
VESTAVIA HILLS FIRE STATION # 4
13041 LIBERTY PKWY,
VESTAVIA HILLS, AL 35242

PROJECT NAME:

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DATE: 04/28/2026
DRAWN BY: EV
SCALE: N.T.S.
TITLE: DEVICE DETAILS
SHEET

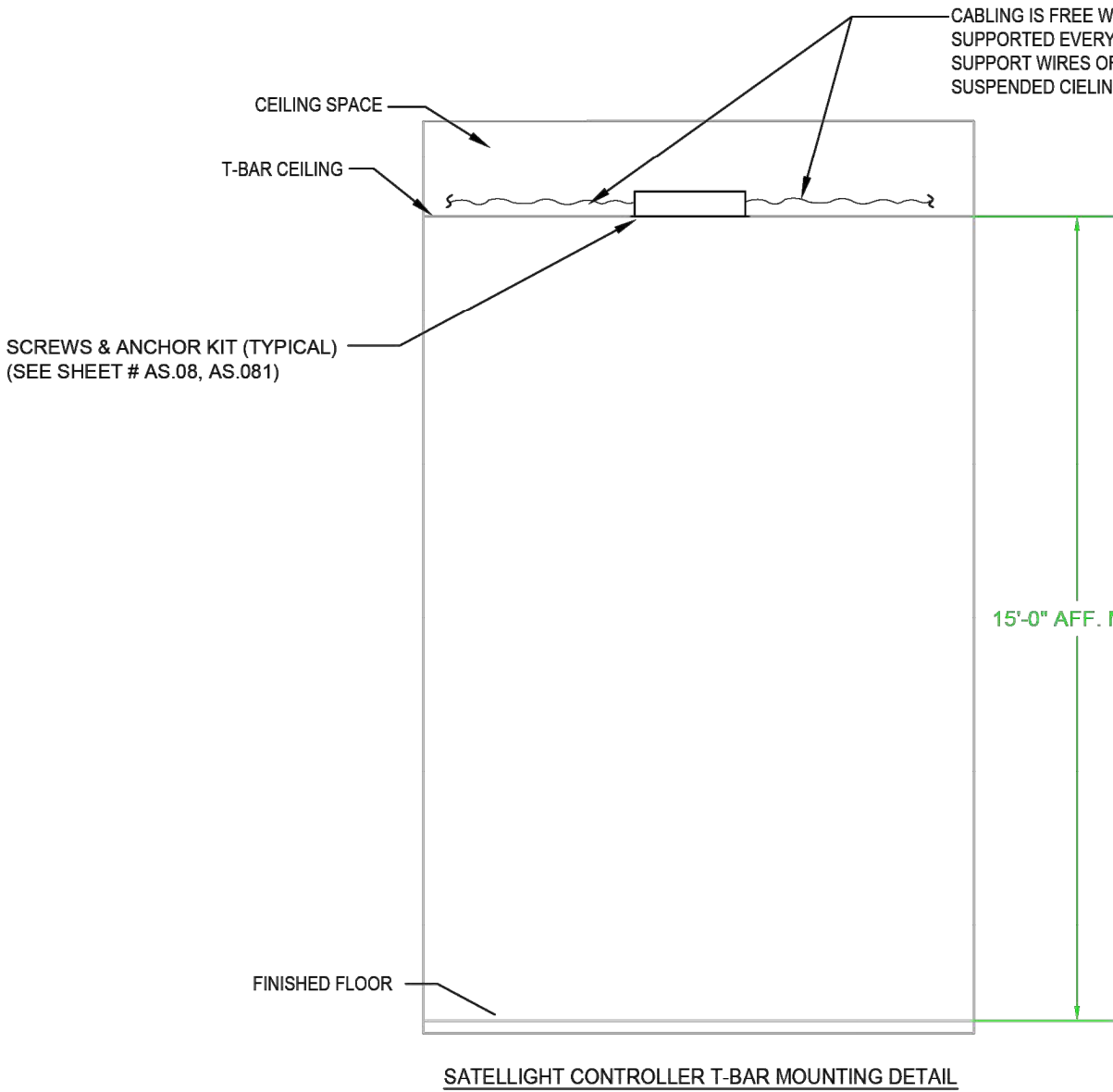
ALERT SYSTEM LAYOUT DRAWINGS – FOR REFERENCE



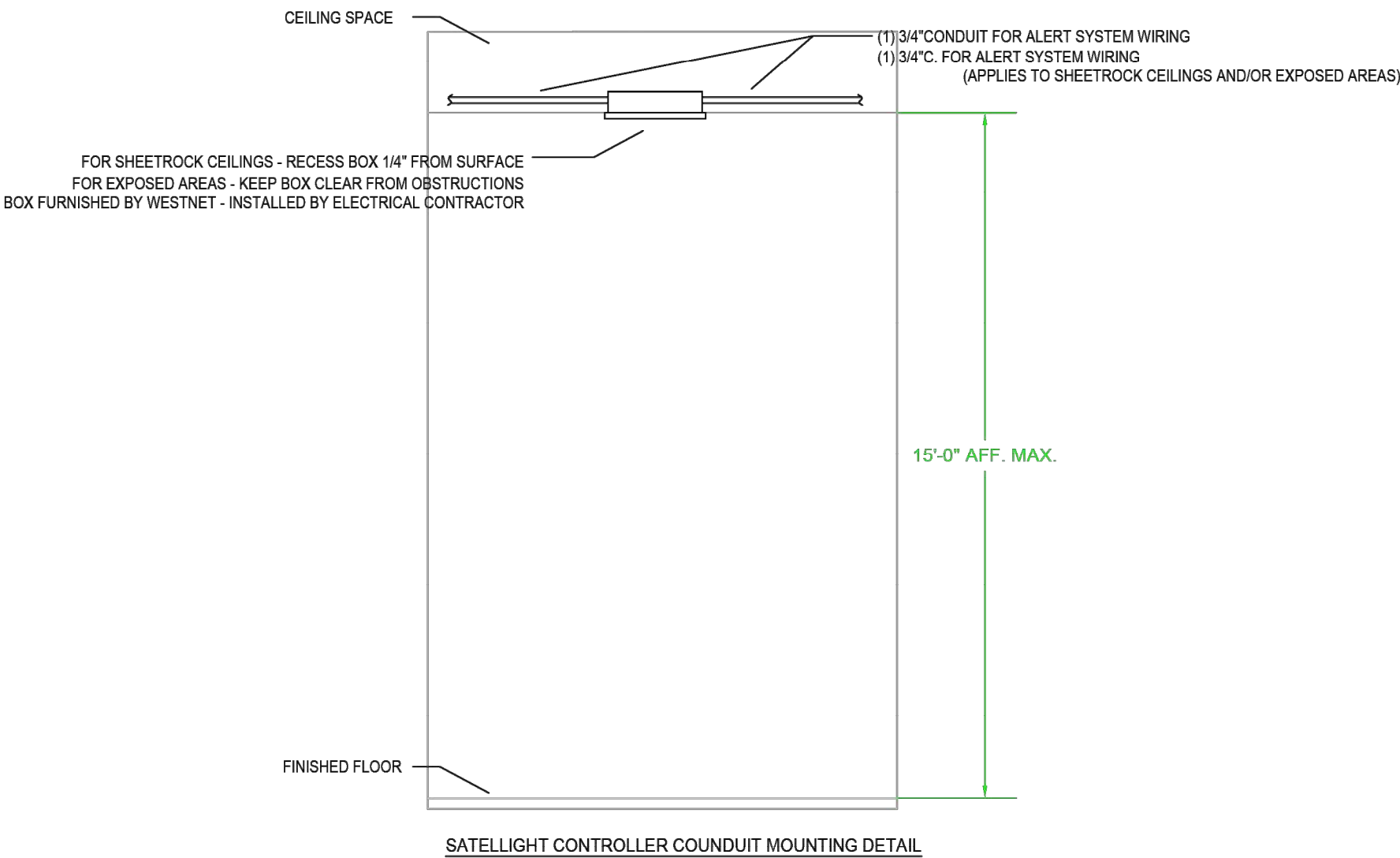
Satellight Mounting Kit - Acoustic Ceiling (A-Kit)

Note:
Kit used for mounting on drop-tile ceilings. Compatible products include:
1. Satellight Controllers 2. Satellights 3. Dorm lights

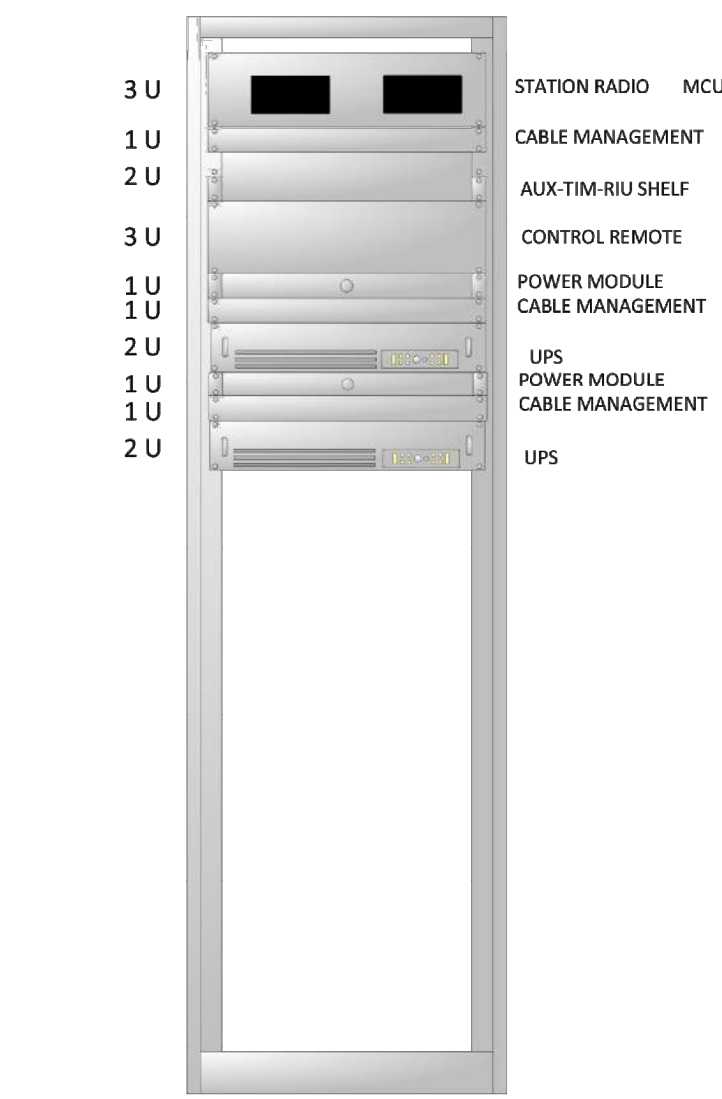
03 TYPICAL T-BAR PANEL INSTALLATION
N.T.S.



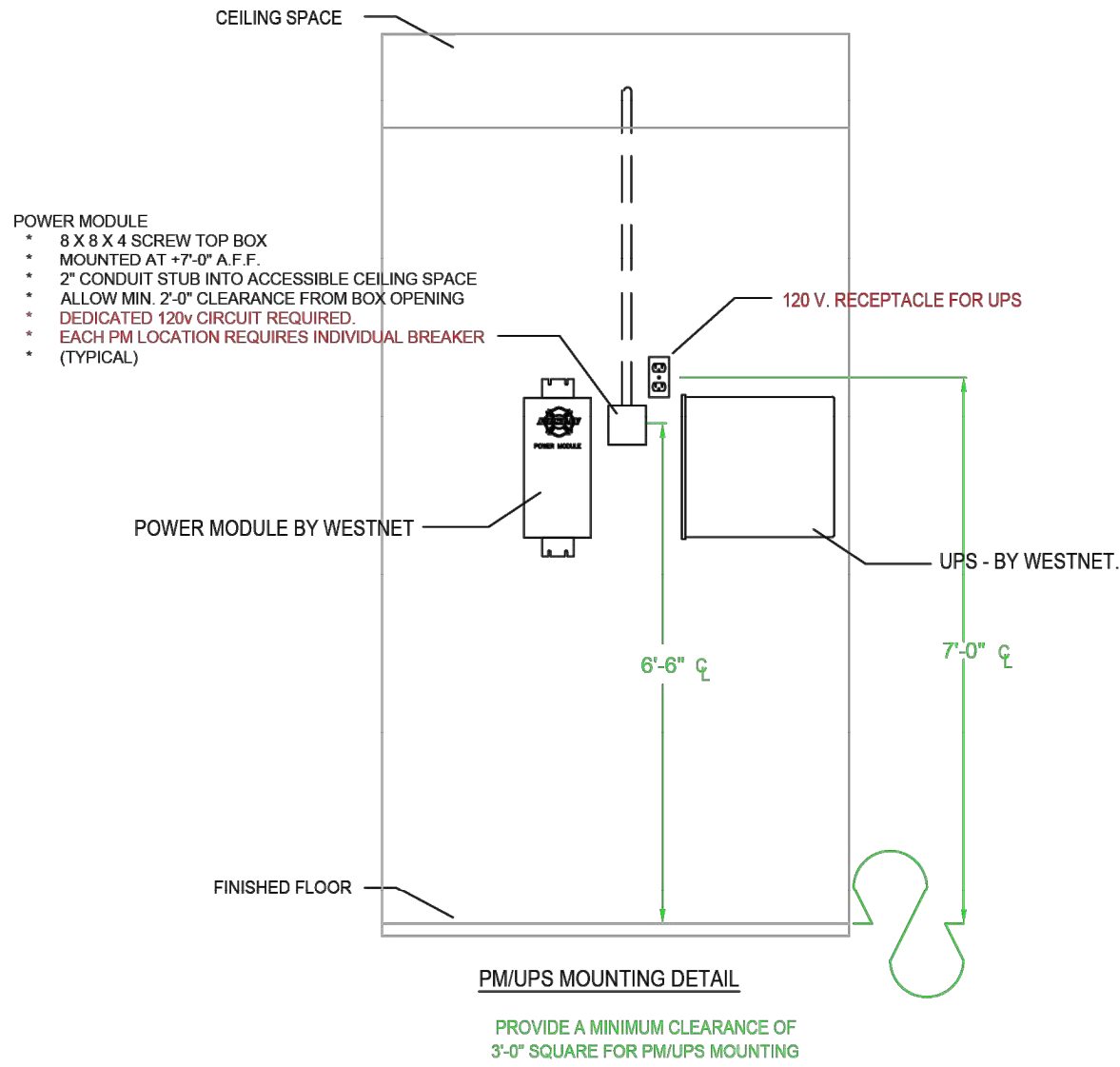
SATELLIGHT CONTROLLER T-BAR MOUNTING DETAIL



SATELLIGHT CONTROLLER CONDUIT MOUNTING DETAIL



01 TYPICAL LAYOUT
N.T.S.
RACK PROVIDED BY OTHERS



PM/UPS
POWER MODULE AND UPS

- POWER MODULES SHALL SUPPLY THE SMART STATION CAT 5 PRIMARY ALARM NETWORK WITH 24 VOLTS DC OUTPUT.
- THE POWER MODULE SHALL BE CENTERED TO THE FIRE STATION RADIO, THE PRINTER, MASTER CONTROL UNIT, AND THE DATA TERMINAL CONTROL UNIT IF THE FIRE STATION IS ETHERNET DISPATCHED.
- SHALL SUPPLY SYNTHESIZED 110-VAC POWER THAT IS PROTECTED FROM THE POWER GRID BY AN ON-LINE CONVERTER.
- SHALL SENSE POWER LOSS AND NOTIFY THE MASTER CONTROL UNIT OF ANY OUTAGE.
- LED STATUS INDICATORS SHALL SHOW FIRE PERSONNEL THE MODULE POWER STATUS.
- STANDARD AGC POWER FUSES SHALL BE CHANGEABLE BY FIRE STATION PERSONNEL.
- EACH POWER SUPPLY SHALL BE ACCOMPANIED BY AN UNINTERRUPTIBLE POWER SUPPLY WITH CAPACITY TO RUN THE SYSTEM AT FULL OPERATION FOR (60) MINUTES.

SC
SATELLIGHT CONTROLLER

KSC
KNIGHT LITE SATELLIGHT CONTROLLER

- SHALL OPERATE ON A CAT 5 SMART STATION PRIMARY ALARM NETWORK, WHICH IS DRIVEN FROM THE MCU.
- OPERATE INDEPENDENTLY OR DRIVE UP TO (3) OR (4) DEVICES DEPENDING UPON THE LOCATION IN THE FIRE STATION.
- AUDIO OUTPUT SHALL BE CONTROLLED BY SOFTWARE FROM THE MASTER CONTROL UNIT.
- AUDIO OUTPUT SHALL BE ADJUSTABLE ACROSS A (80) DECIBEL RANGE.
- SHALL BE CAPABLE OF INTELLIGENT SENSING AND CONTROL OF FIRE STATION SYSTEMS AND EQUIPMENT. CONTROLLER SHALL UTILIZE BI-DIRECTIONAL DATA THROUGHOUT THE SMART STATION NETWORK AND EXTEND CAPABILITY TO THE FIRE DEPARTMENT DISPATCH CENTER.
- SHALL BE MOUNTED IN THE CEILING TO PROVIDE ALARM COVERAGE THROUGHOUT THE STATION.
- ACOUSTICAL CEILING MOUNTING SECURES THE DEVICE TO THE T-BAR RAILS AND THE SUPERSTRUCTURE OF THE BUILDING.
- DRYWALL AND PLASTER CEILING MOUNTING HARDWARE SHALL UTILIZE METAL HARDWARE THAT IS COLOR-MATCHED TO THE LAMP ASSEMBLY.

S
SATELLIGHT, SPEAKER/LED LIGHT

KS
KNIGHT LITE SATELLIGHT, SPEAKER/LED LIGHT

- SHALL OPERATE ON A CAT 5 ALARM SUBNETWORK, WHICH IS DRIVEN FROM A DEVICE CONTROLLER.
- AUDIO OUTPUT FROM THE DEVICES SHALL BE SET BY THE SOFTWARE FROM THE CONTROLLER.
- AUDIO OUTPUT SHALL BE ADJUSTABLE ACROSS A (80) DECIBEL RANGE.
- THE LIGHTING OUTPUT SHALL INCREASE AUTOMATICALLY DURING THE FIRST FEW SECONDS OF THE ALARM SEQUENCE.
- SHALL BE MOUNTED IN CEILING TO PROVIDE ALARM COVERAGE THROUGHOUT THE STATION.
- ACOUSTICAL CEILING MOUNTING SECURES THE DEVICE TO THE T-BAR RAILS AND THE SUPERSTRUCTURE OF THE BUILDING.
- DRYWALL AND PLASTER CEILING MOUNTING HARDWARE INSTALLS DEVICES INTO THESE CEILINGS.

03 SATELLIGHT CONTROLLER - SC
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

SATELLIGHT SPEAKER - S
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

REV	REVISION	DATE	BY



**ALERT
SYSTEM**

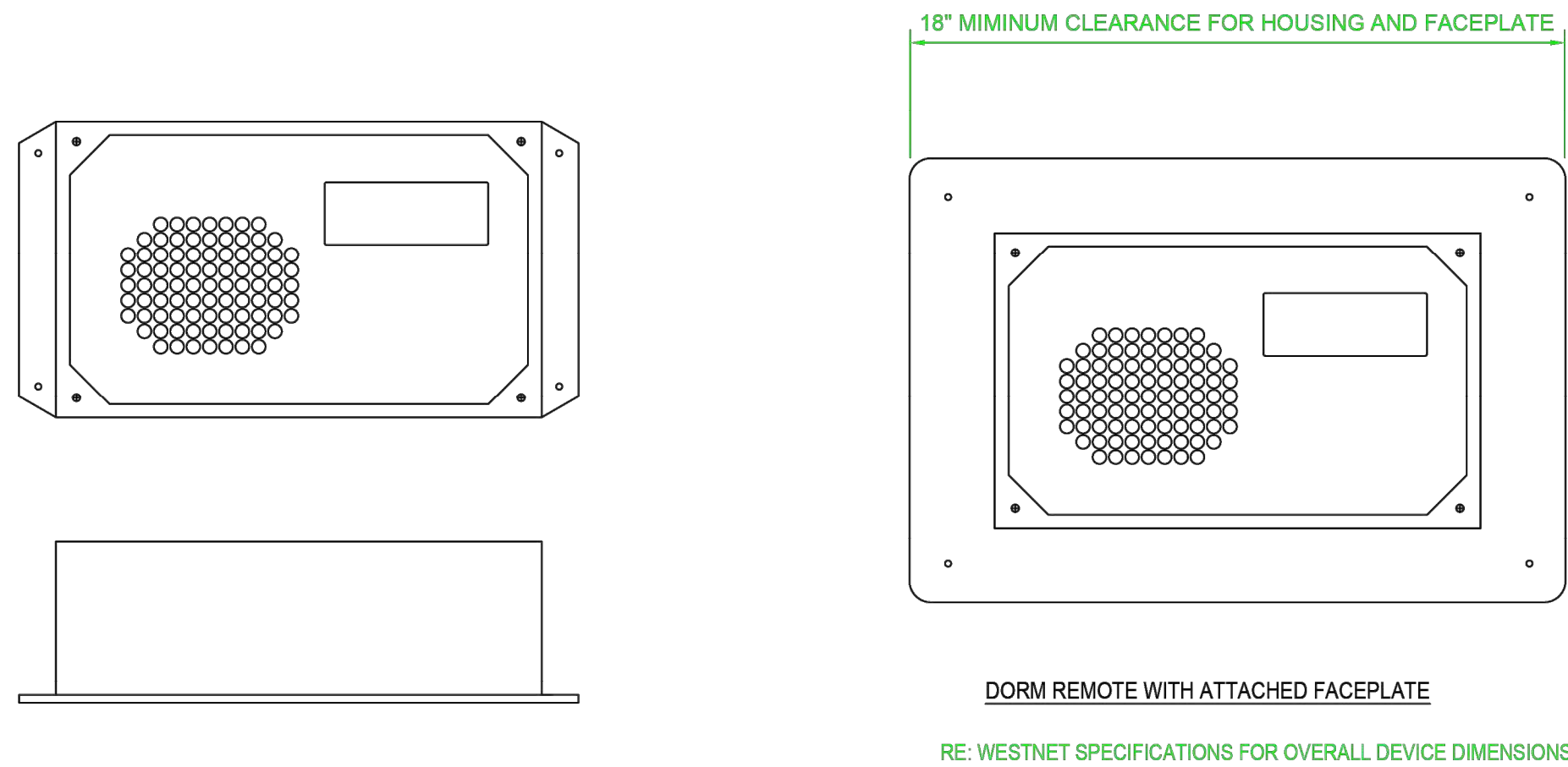
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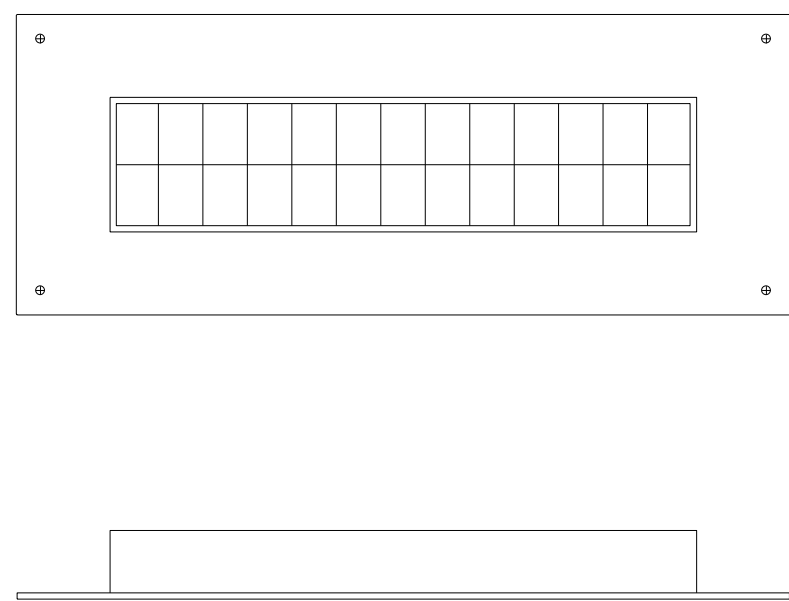
ALERT SYSTEM LAYOUT DRAWINGS – FOR REFERENCE



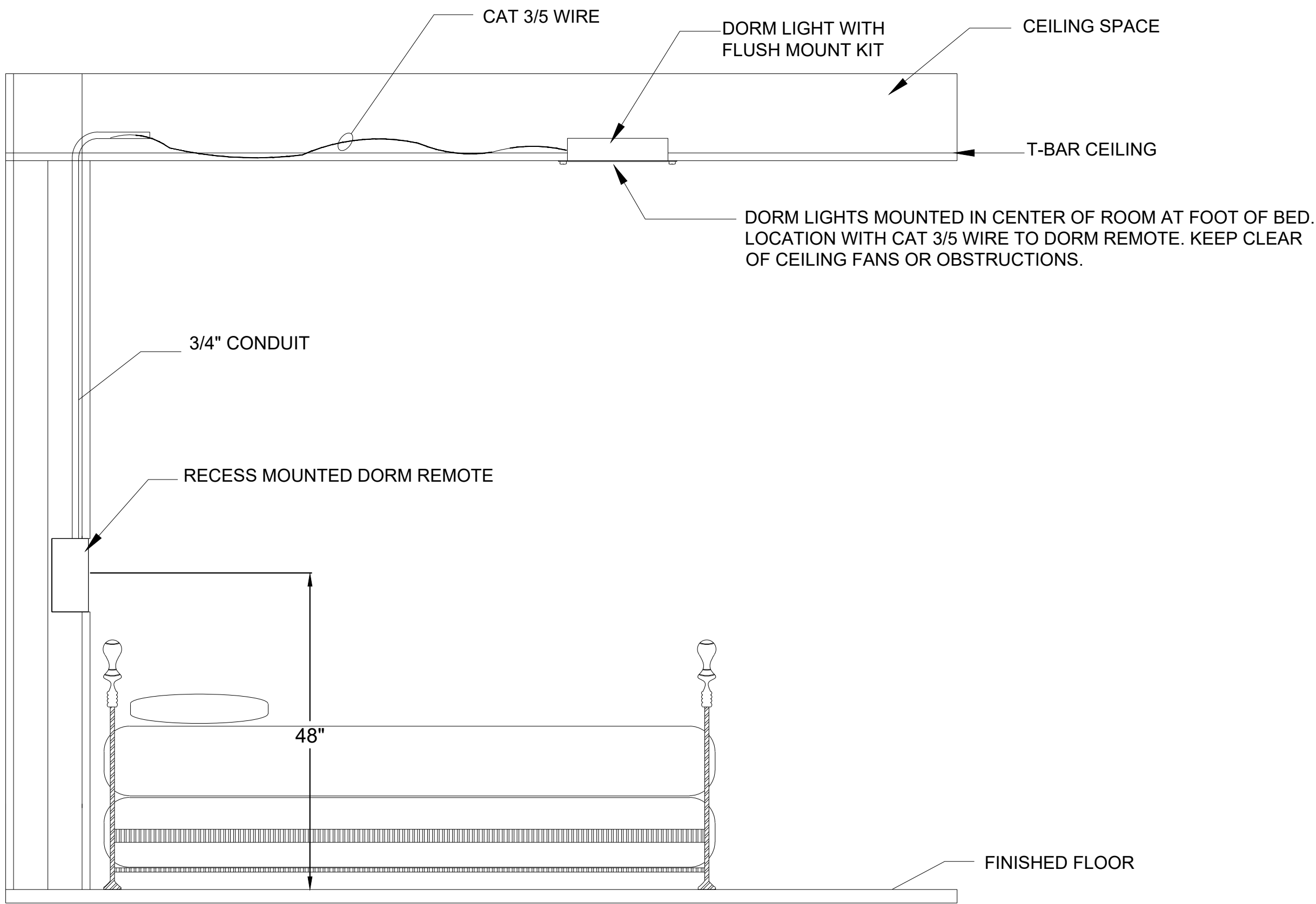
01 DORM REMOTE - DR
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

DR DORM REMOTE WITH LIGHT

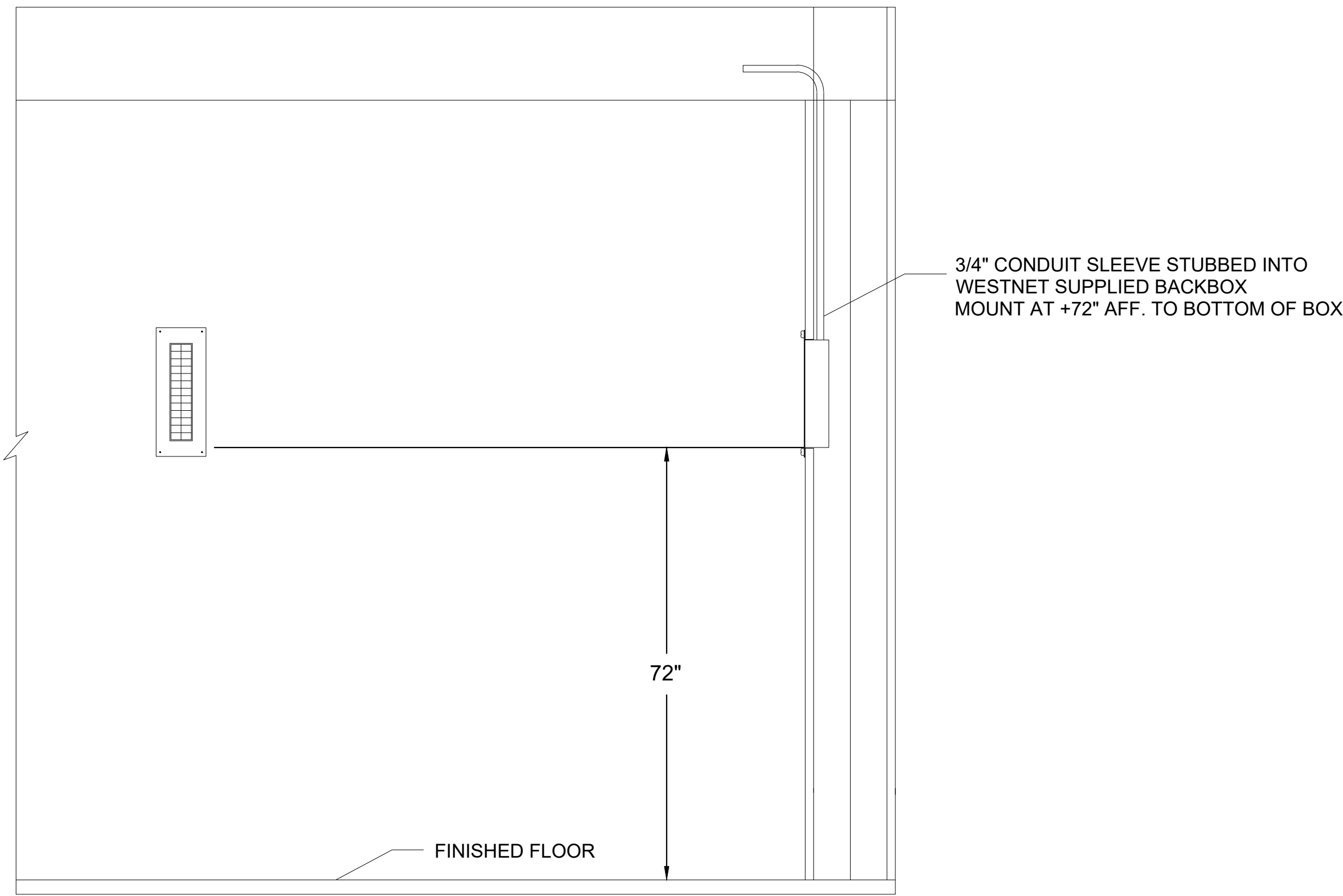
- SPEAKER/LIGHT DEVICES SHALL BE FIREFIGHTER PROGRAMMED TO ACTIVATE ON ALL ALARMS STARTING AT SHIFT CHANGE.
- THE DEVICE AUDIO SHALL BE ADJUSTED OVER A (60) DECIBEL RANGE IN (1) DECIBEL INCREMENTS TO AID IN THE REDUCTION OF AUDIBLE SHOCK THAT OCCURS WHEN THE FIREFIGHTER AWAKENS TO AN ALARM.
- THE LIGHTING SHALL INCREASE DURING THE FIRST FEW SECONDS OF THE ALARM SEQUENCE TO REDUCE OPTICAL SHOCK UPON AWAKENING.
- THE LIGHT OUTPUT SHALL BE ADJUSTABLE BY EACH FIREFIGHTER.
- INSTALLED WITH VISIBLE FRONT DISPLAY PANEL AND SPEAKER TOWARD THE SLEEPING AREA.
- THE TWO-LINE DISPLAY SHALL BE USED FOR DISPLAYING TEXT MESSAGING.
- THE DEVICE SHALL OPERATE UP TO (4) COMBINATION SPEAKER/LED LIGHT DEVICES FOR ZONE CONTROLLED SLEEP AREAS.
- THE DEVICE SHALL BE DESIGNED TO BE WALL OR ROOM DIVIDER MOUNTED AT (2) FEET ABOVE THE HEIGHT OF THE BED TO PROVIDE ILLUMINATION FOR THE BED AND THE FLOOR.
- THE DEVICE CAN BE SURFACE MOUNTED.
- ALL CONNECTIONS SHALL BE MODULAR PLUGS ENABLING RELOCATION OF DORM REMOTE WITH MINIMUM EFFORT.



02 ASLF LIGHT
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.



DORM REMOTE / DORM LIGHT MOUNTING DETAIL



ASLF DORM LIGHT STROBE LAYOUT

REV	REV	DATE	BY



ALERT
SYSTEM

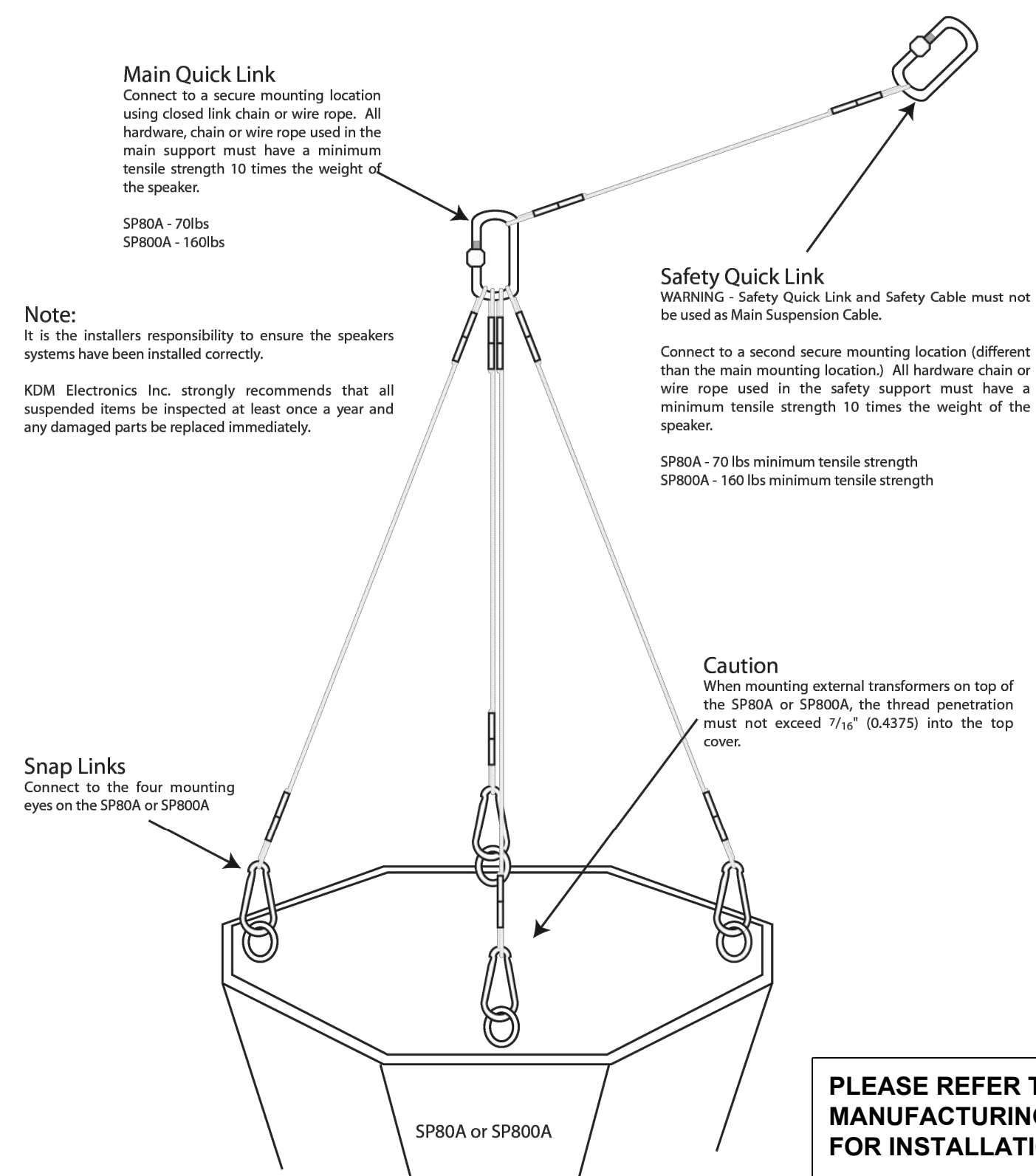
PROJECT NAME:
VESTAVIA HILLS FIRE STATION # 4
13041 LIBERTY PKWY,
VESTAVIA HILLS, AL 35242

NOTE:
IF THIS SCALE IS NOT 1"
THIS SHEET IS NOT TO SCALE

DATE: 04/28/2026
DRAWN BY: EV
SCALE: N.T.S.
TITLE: DEVICE DETAILS
SHEET

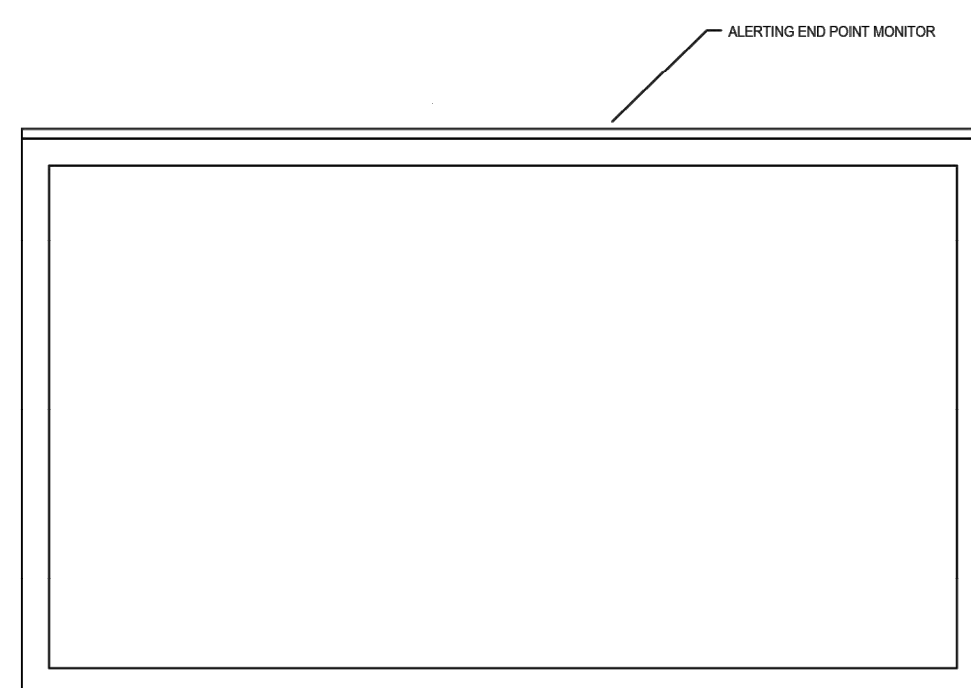
ALERT SYSTEM LAYOUT DRAWINGS – FOR REFERENCE

Hanging Instructions SP800A and SP80A using SPH5A Suspension Harness



AEP ALERTING END POINT MONITOR - (SIZE VARIES)

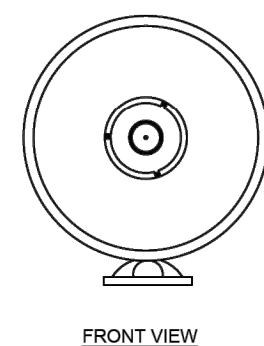
- SHALL BE TEXT AND GRAPHICS INDICATING SIGNS THAT ARE CONTROLLED FROM THE MASTER CONTROL UNIT IN A SMART STATION SYSTEM.
- SHALL BE USED TO DISPLAY THE COMPANIES ASSIGNED TO THE CALL AND ADDITIONAL INFORMATION SUCH AS THE ADDRESS OF THE CALL, HYDRANT OUTAGES NEAR THE CALL OR HAZMAT INFORMATION ASSOCIATED WITH THE ADDRESS OF THE CALL.
- CHARACTER PANELS SHALL UTILIZE (3) COLOR EMITTERS ENABLING A TOTAL OF (8) SHADES OF MESSAGES.
- SHALL BE DRIVEN BY THE SMART STATION CAT 6 NETWORK.
- SHALL DISPLAY ALERT, CONFIDENTIAL MESSAGES RECEIVED FROM THE MCU RESPONDING TO A MESSAGE ZONE COMMAND.
- SHALL PROVIDE SILENT INFORMATION THAT IS TOTALLY IMMUNE FROM HIGH NOISE LEVELS OF APPARATUS ROARS.
- AIRCRAFT FACILITIES
 - REQUIRES LOW RECEPTACLE
 - SIZE DETERMINED BY INSTALLER



ALERTING END POINT - TOUCH SCREEN

01 ALERTING END POINT MONITOR

RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS



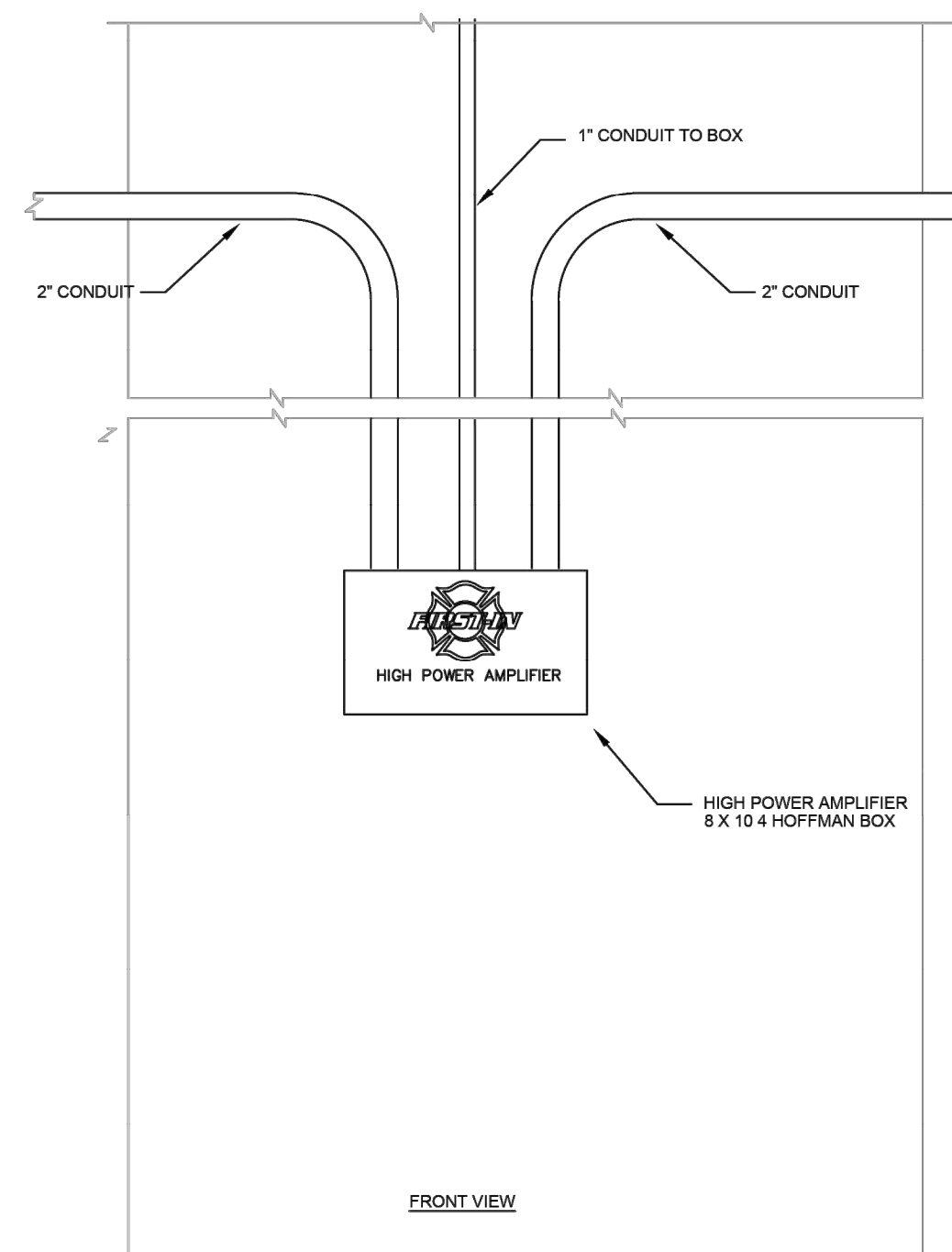
02 OUTSIDE SPEAKER AUDIO MODULE - EXTERIOR

RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS

HIGH POWER PAGING AMPLIFIER & OMNI DIRECTIONAL SPEAKER

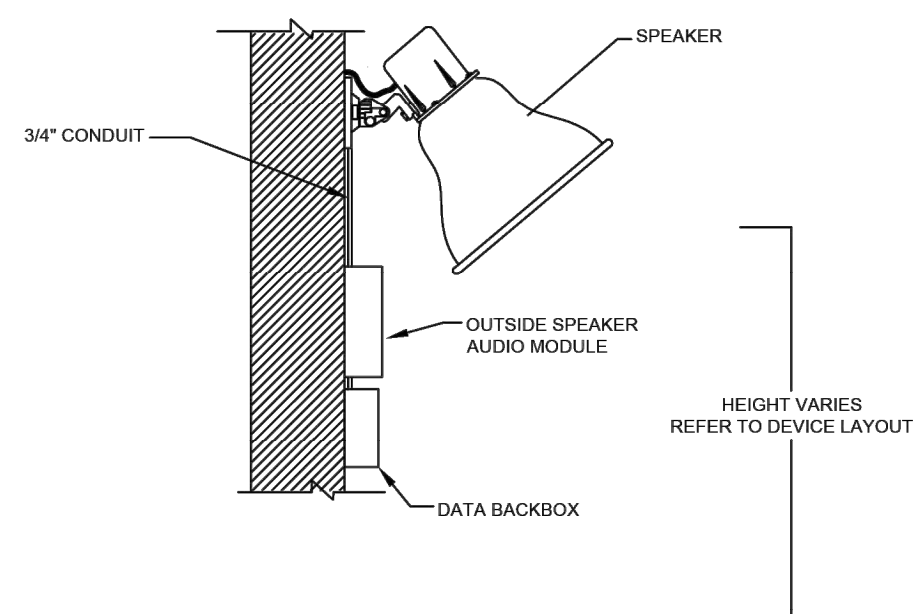
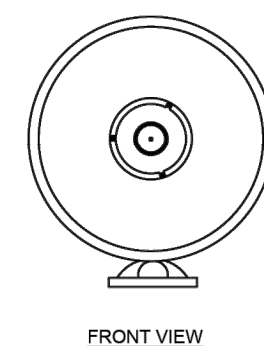


- HIGH POWER AMPLIFIERS SHALL PROVIDE DYNAMIC CONTROL OF THE FIRE ALARM SOUND LEVEL IN HIGH NOISE AREA OF THE FIRE STATION
 - AMPLIFIERS SHALL BE USED THROUGHOUT THE APPARATUS BAYS, AND ALONG THE PERIMETER OF EACH STATION
 - INCREASED VOLUME SHALL PROVIDE AUDIBLE DISPATCH IN HIGH NOISE LEVEL AREAS
 - AN AMBIENT NOISE DETECTOR SHALL SENSE SOUND LEVELS AND CONTROL THE OUTPUT POWER FROM (10) TO (120) DECIBELS
- MAXIMUM OUTPUT POWER SHALL BE SET BY SERVICE SOFTWARE:**
- A BUILT IN VOLUME LOSS INDICATOR SHALL DISPLAY THE OUTPUT LEVEL CONTROL ACTIVITY
 - BUILT IN LED STATUS INDICATORS SHALL INDICATE THE OPERATING MODE OF THE HIGH POWER AMPLIFIER
 - MULTIPLE HIGH POWER AMPLIFIERS SHALL BE OPERATED ON THE SMART STATION NETWORK
 - SPEAKER SHOWN OUTDOORS SHALL BE WEATHERPROOFED AND DESIGNED FOR OUTDOOR USE
 - SPEAKER MOUNTS SHALL BE ADJUSTABLE TO ANY ANGLE AS NEEDED BY THE INSTALLATION.



01 HIGH POWER PAGING AMPLIFIER & OMNI DIRECTIONAL SPEAKER

N.T.S.



03 OUTSIDE APEAKER AUDIO MODULE - INTERIOR

RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS

PROJECT NAME:

VESTAVIA HILLS FIRE STATION # 4
13041 LIBERTY PKWY,
VESTAVIA HILLS, AL 35242

NOTE: IF THIS SCALE IS NOT 1". THIS SHEET IS NOT TO SCALE.

DATE: 04/28/2026

DRAWN BY: EV

SCALE: N.T.S

TITLE: DEVICE DETAILS

SHEET

AS4.4



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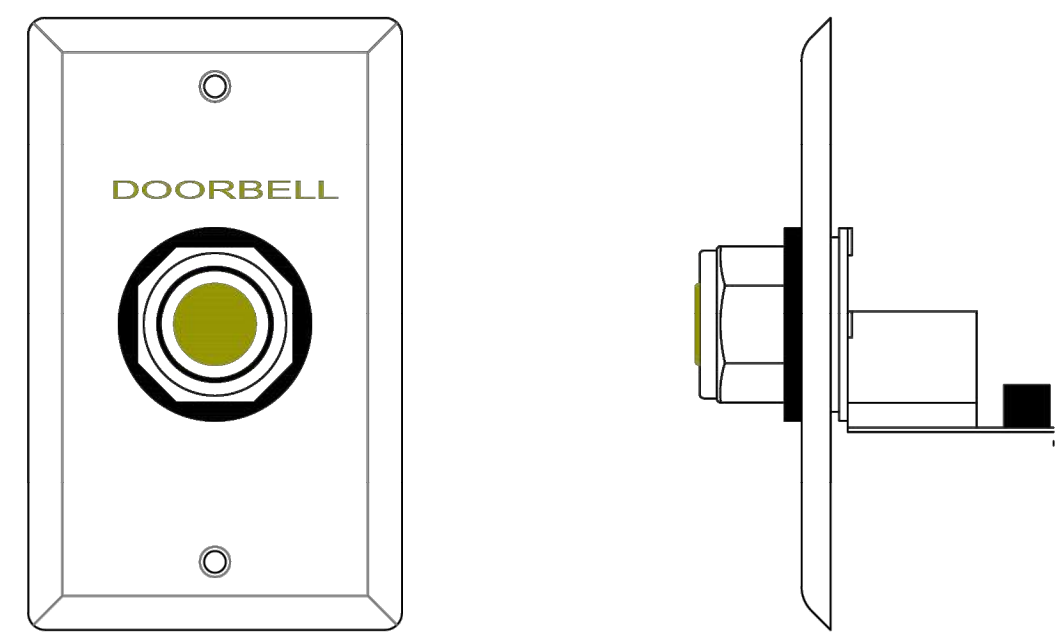
REV	REVISION	DATE	BY



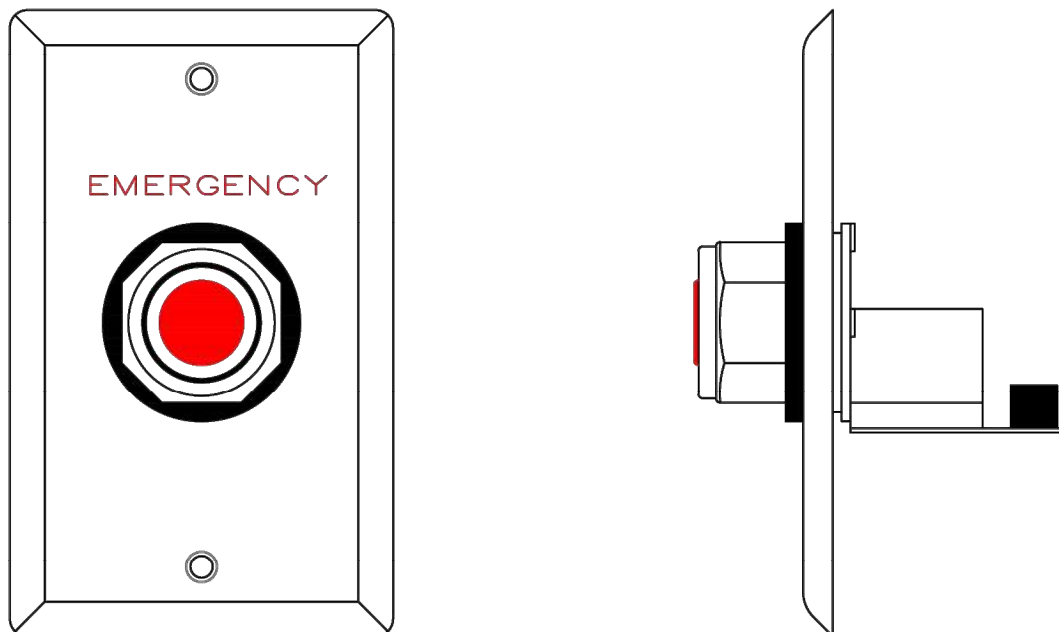
ALERT SYSTEM

15542 CHEMICAL LANE
HUNTINGTON BEACH, CA 92649
TEL: (714) 548-3500 FAX (714) 901-5610
www.FirstInAlerting.com

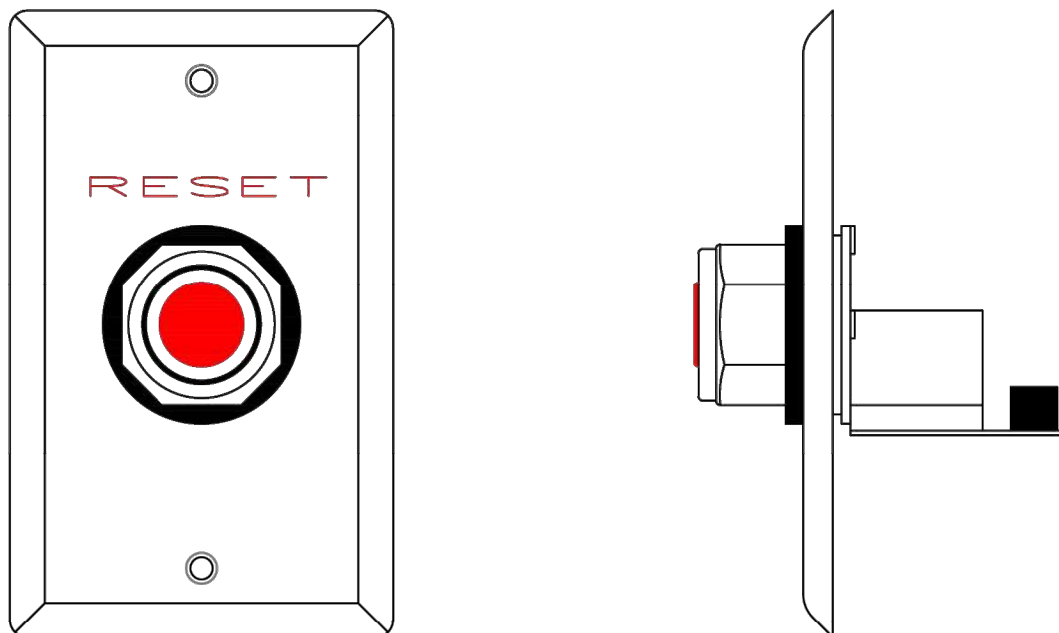
ALERT SYSTEM LAYOUT DRAWINGS – FOR REFERENCE



DB DOORBELL - DB
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.



EMERGENCY BUTTON - EB
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.



RESET BUTTON - RB
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

DB

DOORBELL

- SHALL NOTIFY PERSONNEL OF VISITOR ON FIRE STATION GROUNDS.

- NOTIFICATION OF VISITOR SHALL BE RELAYED TO DISPATCH CENTER.

- SHALL NOTIFY FIRE PERSONNEL AT WHICH DOOR THE VISITOR IS WAITING.

- SHALL PROVIDE BOTH AUDIBLE AND VISUAL NOTIFICATION OF DOORBELL ACTIVATION.

- PROVIDE CUSTOMIZED MESSAGES AND ALERT TONES.

EB

EMERGENCY BUTTON

- SHALL NOTIFY PERSONNEL OF EMERGENCY ON FIRE STATION GROUNDS.

- SHALL ENABLE THE FIRE FIGHTER TO ANSWER THE DOOR AND ATTEND TO THE PROBLEM IMMEDIATLY.

- SHALL NOTIFY DISPATCH CENTER OF INCIDENT OCCURANCE AT THE FIRE STATION.

- SHALL PROVIDE BOTH AUDIBLE AND VISUAL NOTIFICATION OF AN EMERGENCY.

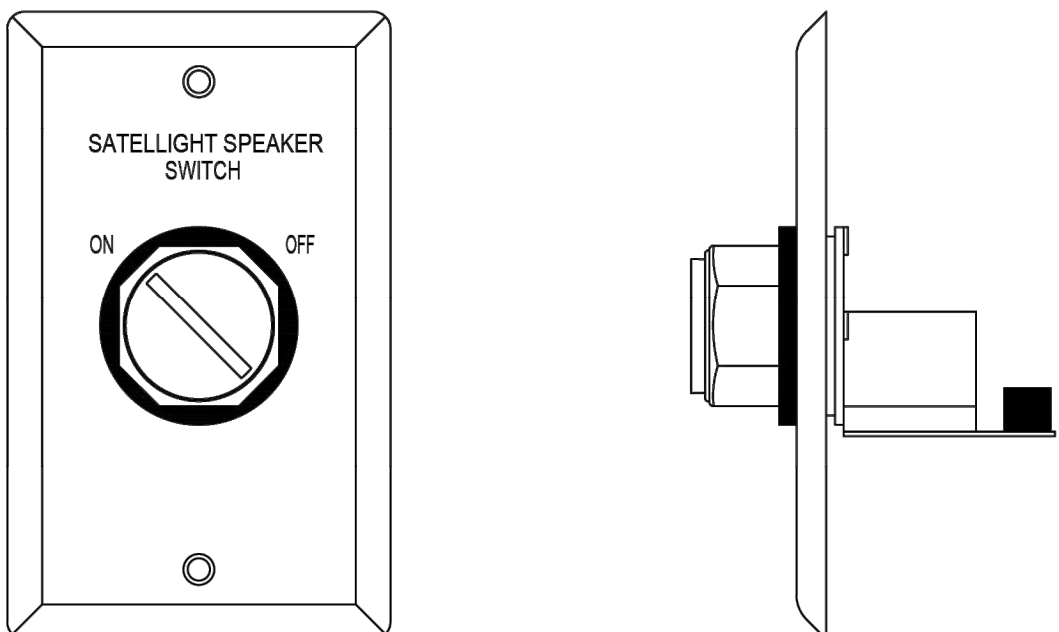
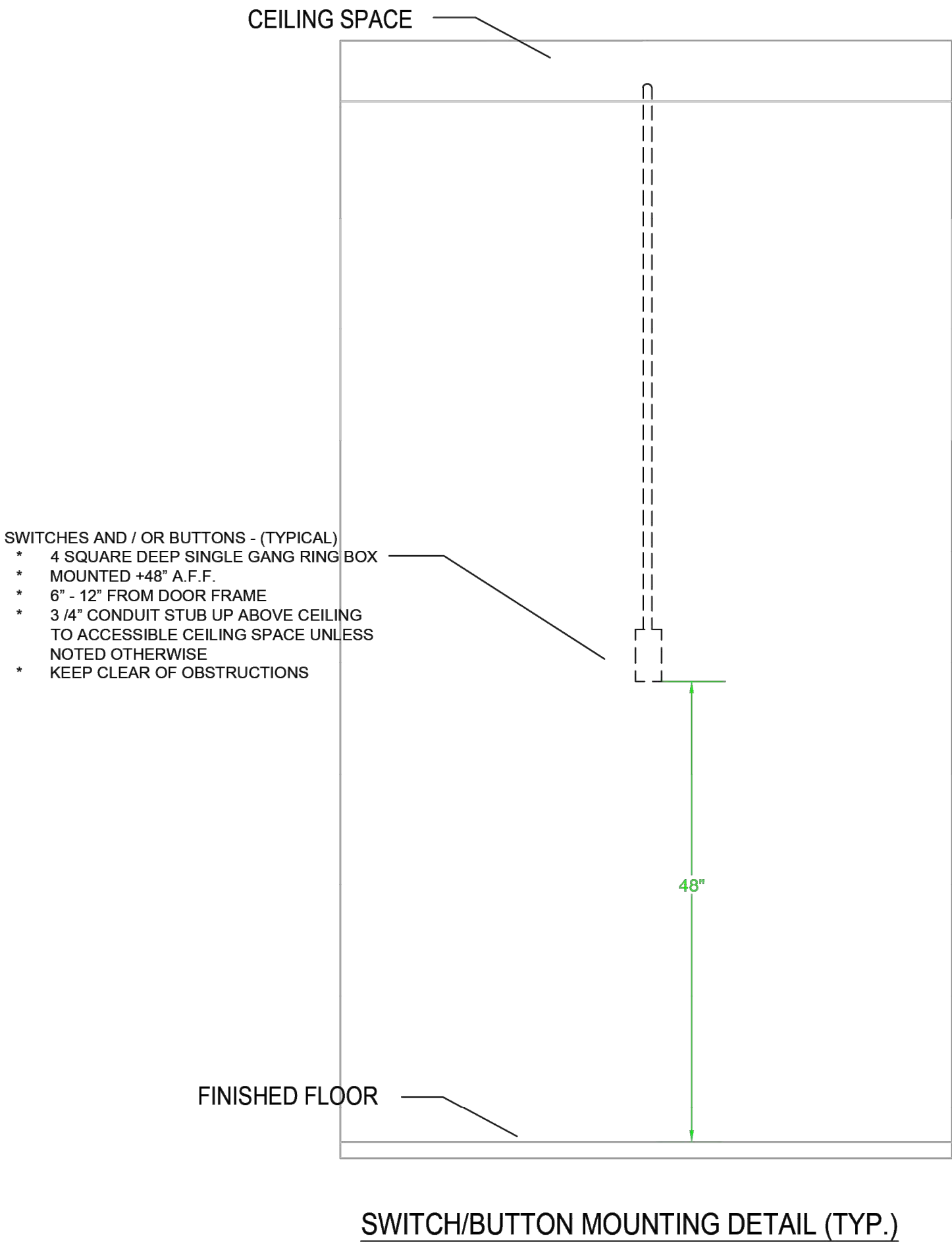
- PROVIDE CUSTOMIZED MESSAGES AND ALERT TONES.

RB

RESET BUTTON

-RESETS APPLIANCE CONTROLLER DEVICE

- SHALL BE WITHIN CLOSE DISTANCE TO APPLIANCE CONTROLLER DEVICE



SPEAKER SWITCH - SW
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

SW

SPEAKER SWITCH

- SHALL BE UTILIZED TO CONTROL THE ACTIVE/INACTIVE OPERATION OF THE SATELLIGHT CONTROLLER IN ROOM (COMBINATION SPEAKER/LED LIGHT DEVICE).



WESTNET®

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REV	REVISION	DATE	BY



ALERT
SYSTEM

PROJECT NAME:

VESTAVIA HILLS FIRE STATION # 4
13041 LIBERTY PKWY,
VESTAVIA HILLS, AL 35242

NOTE: IF THIS SCALE IS NOT 1" THIS SHEET IS NOT TO SCALE
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TITLE: DEVICE DETAILS
SHEET

AS4.5

SECTION 238700**OUTLETS****PART 1 – GENERAL****1.1 SCOPE**

- A. Include section 230100 "GENERAL PROVISIONS" with this section.
- B. Provisions of this Section shall apply to all HVAC work.

PART 2 – PRODUCTS**2.1 GRILLES, REGISTERS AND DIFFUSERS:**

- A. General: Air devices may be Titus, Price, Metal Aire, Krueger, Tuttle & Bailey or approved equal. Where fire dampers are required at grilles, provide steel grilles, not aluminum.
- B. Supply Registers (SR): Adjustable vertical deflection, adjustable horizontal deflection, removable core, opposed blade damper and multi-blade scoop and baked aluminum enamel finish. Titus "272FL".
- C. Wall Return Grilles (WRG): Horizontal bars fixed at about 35° angle, close spacing and plaster frames. Baked aluminum, enamel finish. Titus "350FL".
- D. Wall Return Register (WRR): Horizontal bars fixed at about 35° angle, plaster frames and opposed blade damper. Baked aluminum, enamel finish. Titus "350".
- E. Ceiling Return Grilles (R), Ceiling Exhaust Grilles (E) and Transfer Air Grilles (TAG): All aluminum, 1/2" X 1/2" X 1/2" cube core and plaster frames as needed. Off-white baked enamel finish. Provide 24 x 24 panel so grille will fit in 24 x 24 ceiling grid. Titus "50F".
- F. Plaque Face Ceiling Diffuser (S): The diffuser shall have an aluminum face panel, which shall be a one piece assembly, removable by means of four positive locking posts. The exposed surface of the face panel shall be smooth, flat, and free of visible fasteners. The face panel shall project 1/4" below the outside border of the diffuser back pan. The back of the face panel shall have an aerodynamically shaped, rolled edge to ensure a tight horizontal discharge pattern. The back pan shall be one piece precision die-stamped and shall include an integrally drawn inlet. The diffuser back pan shall be constructed of aluminum. The finish shall be #26 white. Titus "OMNI".

2.2 LOUVERS

- A. Fabrication:
 - 1. Design: Stationary drainable louver type with drain gutters in each blade and head with downspouts in jambs and mullions with all welded construction. Hidden vertical supports to allow continuous line appearance up to 120 inches. Steeply angled integral sill.
 - 2. Frame:
 - a. Frame Depth: 6 inches.
 - b. Wall Thickness: 0.081 inch, nominal.
 - c. Material: Extruded aluminum, Alloy 6063-T6.
 - 3. Blades:
 - a. Style: Drainable. 37.5 degrees at 5-3/32 inches, nominal.
 - b. Wall Thickness: 0.081 inch, nominal.
 - c. Material: Extruded aluminum, Alloy 6063-T6.
 - 4. Minimum Assembly Size: 12 inches wide by 12 inches high.

5. Maximum Factory Assembly Size: Single sections shall not exceed 120 inches wide by 90 inches high or 90 inches wide by 120 inches high. Louvers larger than the maximum single size shall be require field assembly of smaller sections.
- B. Performance Data:
 1. Based on testing 48 inch x 48 inch size unit in accordance with AMCA 500.
 2. Free Area: 54 percent, nominal.
 3. Free Area Size: 8.58 square feet.
 4. Maximum Recommended Air Flow through Free Area: 873 feet per minute.
 5. Air Flow: 7490 cubic feet per minute.
 6. Maximum Pressure Drop (Intake): 0.15 inches w.g.
 7. Water Penetration: Maximum of 0.01 ounces per square foot of free area at an air flow of 873 feet per minute free area velocity when tested for 15 minutes.
- C. Insulated Blank-Off Panels: 0.040 aluminum sheet, and 2 inches of insulation as scheduled or indicated, aluminum skin insulated core, factory installed with removable fasteners and neoprene gaskets. Install blank-off panels on all un-used louver sections.
- D. Bird Screen:
 1. Aluminum, 5/8 inches by 0.040 inch, expanded and flattened.
 2. Frame: Removable.
- E. Finish:
 1. Provide baked enamel finish. Color to be selected by Architect. Submit color chart to Architect.
 2. 20-year finish warranty.
- F. Basis of Design: Ruskin ELF6375DX.

2.3 STORM LOUVERS

- A. Fabrication: Formed Aluminum stationary horizontal chevron louver style.
 - a. Frame:
 - i. Frame Depth: 5 inches.
 - ii. Wall Thickness: 0.25 inch, nominal.
 - iii. Material: formed aluminum.
 - b. Blades:
 - i. Style: Horizontal mounted chevron sight proof.
 - ii. Wall Thickness: 0.25 inch, nominal.
 - iii. Material: formed aluminum.
 - c. Minimum assembly size: 12 inches wide by 12 inches high.
 - d. Maximum assembly size: Unlimited width by 90 inches high.
- B. Performance Data:
 - a. Free Area: 53 percent, nominal.
 - b. Maximum Recommended Air Flow through Free Area: 900 feet per minute.
 - c. Air Flow: 7600 cubic feet per minute.
 - d. Maximum Pressure Drop (Intake): 0.30 inches w.g.
- C. Insulated Blank-Off Panels: 0.040 aluminum sheet, and 2 inches of insulation as scheduled or indicated, aluminum skin insulated core, factory installed with removable fasteners and neoprene gaskets. Install blank-off panels on all un-used louver sections.
- D. Bird Screen:
 - a. Aluminum, 5/8 inches by 0.040 inch, expanded and flattened.
 - b. Frame: Removable.

- E. Finish:
 - a. Provide baked enamel finish. Color to be selected by Architect. Submit color chart to Architect.
 - b. 20-year finish warranty.
- F. Basis of Design: Ruskin XP500 or approved equal.

PART 3 – EXECUTION

3.1 INSTALLATION:

- A. Install in accordance with manufacturer's instructions.
- B. Comply with SMACNA (ASMM) for flashing/counter-flashing of roof penetrations and supports for roof curbs and roof mounted equipment.
- C. Check location of outlets and inlets and make necessary adjustments in position to conform with architectural features, symmetry, and lighting arrangement.
- D. Install diffusers to ductwork with air tight connection.
- E. Provide balancing dampers on duct take-off to diffusers, and grilles and registers, despite whether dampers are specified as part of the diffuser, or grille and register assembly.
- F. Paint ductwork visible behind air outlets and inlets flat black.
- G. Install louvers plumb, level, in plane of wall, and in alignment with adjacent work.
- H. Storm Louver installation: Secure louver to structure to comply with FEMA 361 and the following:
 - a. Substrate: CMU, Grout filled.1500 Min. PSI
 - i. Anchor Type: 3/4 inch (19 mm) diameter Hilti HIT HY 150 x 8 in (203) long threaded adhesive anchor.
 - ii. Embedment: 6-3/4 inches (172 mm) minimum.
 - iii. Factory Attachment Angle secured at factory.
 - iv. Shipped Loose Attachment Angle: 4 in x 6 in x 20 in long (102 x 152 x 508) A36 HDG angle. 1/2 in (13) thick.
 - b. Substrate: Concrete 2500 PSI Minimum Compression Strength.
 - i. Anchor Type: Hilti Kwik Bolt TZ CS III 1/2 (6) diameter x 3-3/4 in (95) long
 - ii. Embedment: 3-1/2 inches (89 mm) minimum.
 - iii. Factory Attachment Angle secured at factory.
 - c. Substrate: Steel Framing.
 - d. Factory Attachment Angle secured at factory.

END OF SECTION 238700

NUMBER	MODEL	SIZE	TYPE	GP	WIRE
01	RAIN BIRD PEBB	1-1/2"	TURF ROTARY	29.24	272.8
02	RAIN BIRD XCZ-100-LC	1-1/2"	AREA FOR DRILLPNE	20.1	154.3
03	RAIN BIRD PEBB	1-1/2"	TURF ROTARY	8.93	107.9
04	RAIN BIRD PEBB	1-1/2"	TURF SPRAY	14.73	170.4
05	RAIN BIRD PEBB	1-1/2"	TURF SPRAY	13.37	165.1
06	RAIN BIRD PEBB	1-1/2"	TURF ROTARY	7.81	175.1
07	RAIN BIRD XCZ-100-LC	1-1/2"	AREA FOR DRILLPNE	5.44	106.8
08	RAIN BIRD PEBB	1-1/2"	TURF SPRAY	6.04	221.1
09	RAIN BIRD XCZ-100-LC	1-1/2"	AREA FOR DRILLPNE	7.03	231.1
10	RAIN BIRD XCZ-100-LC	1-1"	AREA FOR DRILLPNE	6.22	288.1
11	RAIN BIRD PEBB	2"	TURF ROTARY	22.57	287.0
12	RAIN BIRD PEBB	1-1/2"	TURF ROTARY	15.13	595.0
	Common Wire				286.0

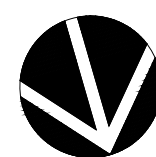
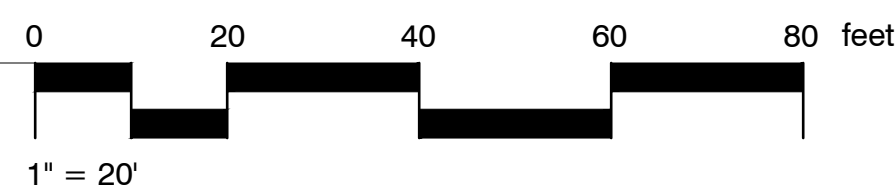
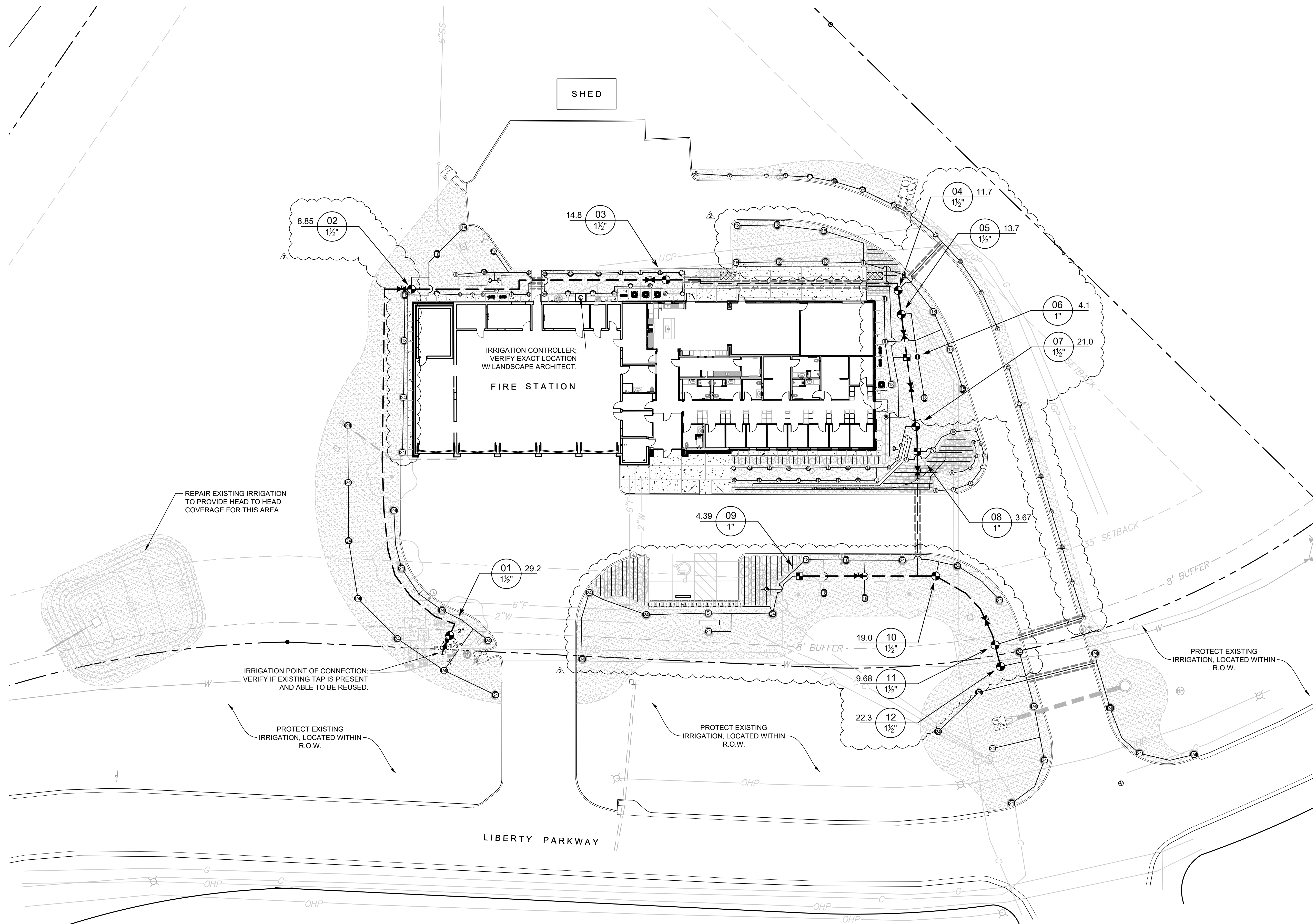
SYMBOL	MANUFACTURER/MODEL	QTY	GPM	RADIUS
	RAIN BIRD 1806 15EST	1	0.61	4'x15'
	RAIN BIRD 1806 15LCS	1	0.49	4'x15'
	RAIN BIRD 1806 15RCS	1	0.49	4'x15'
	RAIN BIRD 1806 15SST	6	1.21	4'x30'
	RAIN BIRD 1806 05H	15	0.2	5'
	RAIN BIRD 1806 05Q	1	0.1	5'
	RAIN BIRD 1806 08H	19	0.52	8'
	RAIN BIRD 1806 08Q	7	0.26	8'
	RAIN BIRD 1806 10H	8	0.79	10'
	RAIN BIRD 1806 10Q	4	0.39	10'
	RAIN BIRD 1806 12H	2	1.3	12'
	RAIN BIRD 1806 15Q	1	0.92	15'
	RAIN BIRD 1806 06V	3	≤ 1.48	6'
	RAIN BIRD 1806 08V	7	≤ 2.88	8'
	RAIN BIRD 1806 10V	1	≤ 2.99	10'
	RAIN BIRD 1806 12V	1	≤ 2.38	12'
	RAIN BIRD R-VAN14 1804-P45 RV-14	9		14'
	RAIN BIRD R-VAN14 1804-P45 RV-14F	2	1.27	14'
	RAIN BIRD R-VAN18 1804-P45 RV-18	3		17'
	RAIN BIRD R-VAN18 1804-P45 RV-18F	1	1.85	17'
	RAIN BIRD R-VAN24 1804-P45 RV-24	25		23'
	RAIN BIRD R-VAN24 1804-P45 RV-24F	9	3.48	23'

Valve Callout

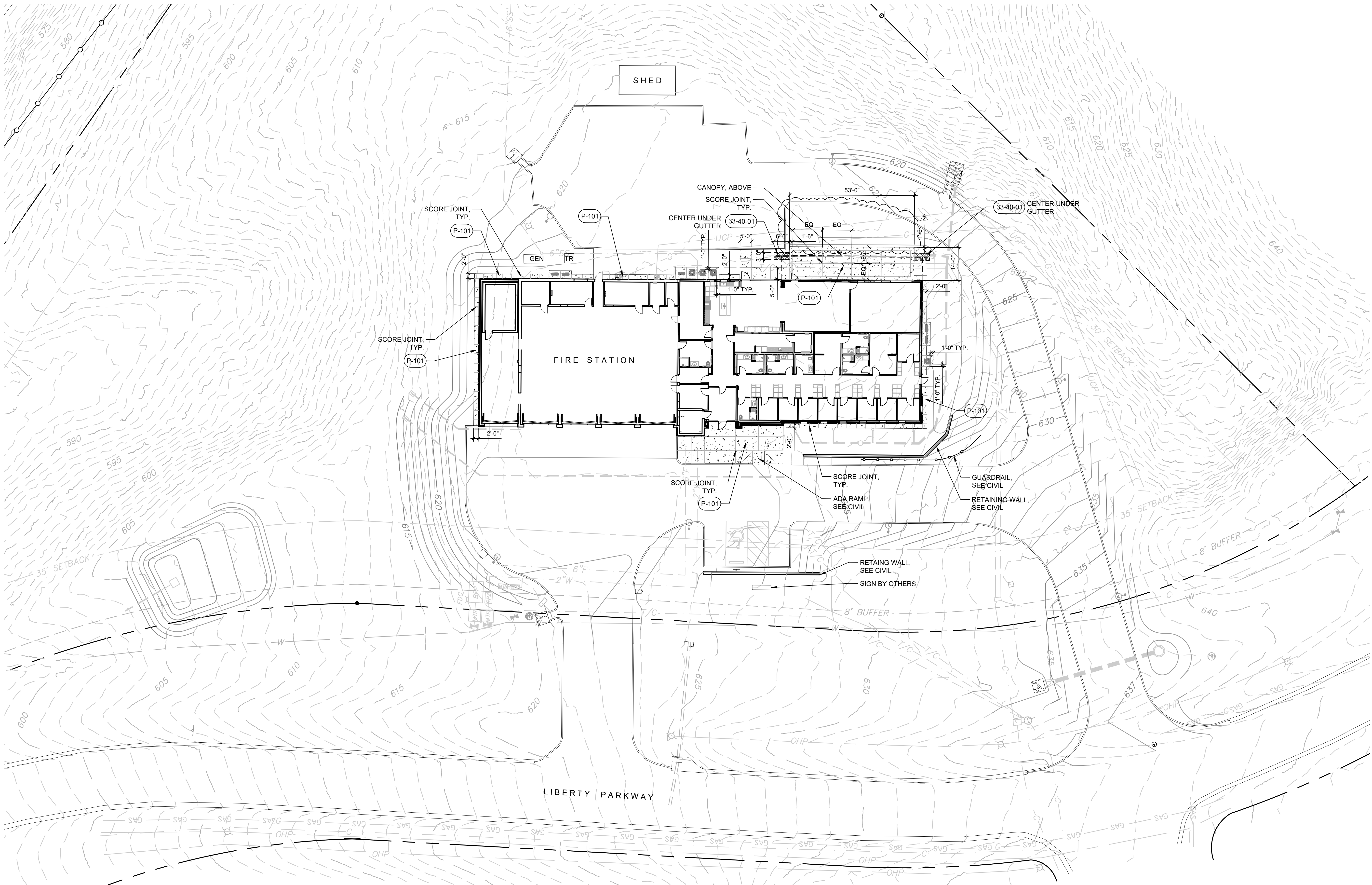
Valve Number

Valve Flow

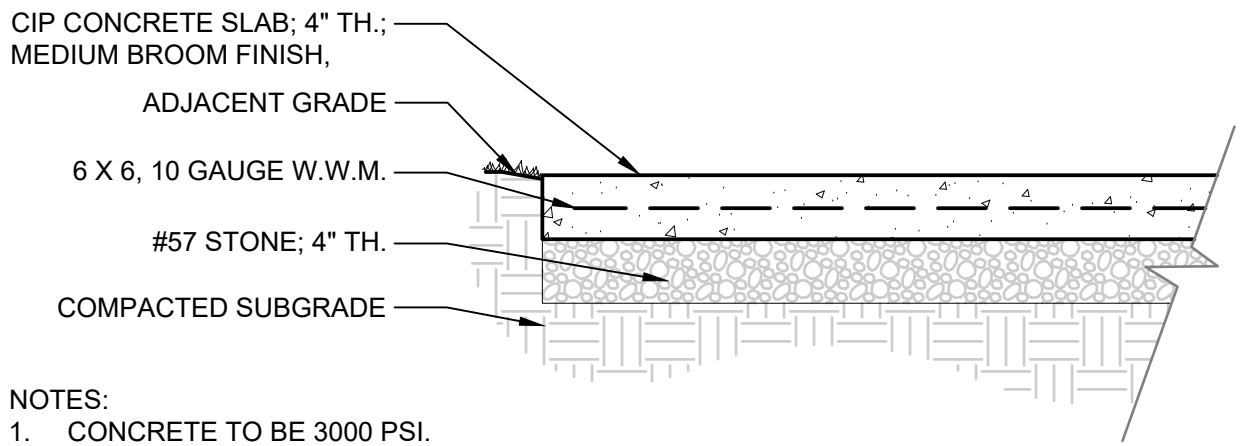
Valve Size



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1 HARDSCAPE PLAN

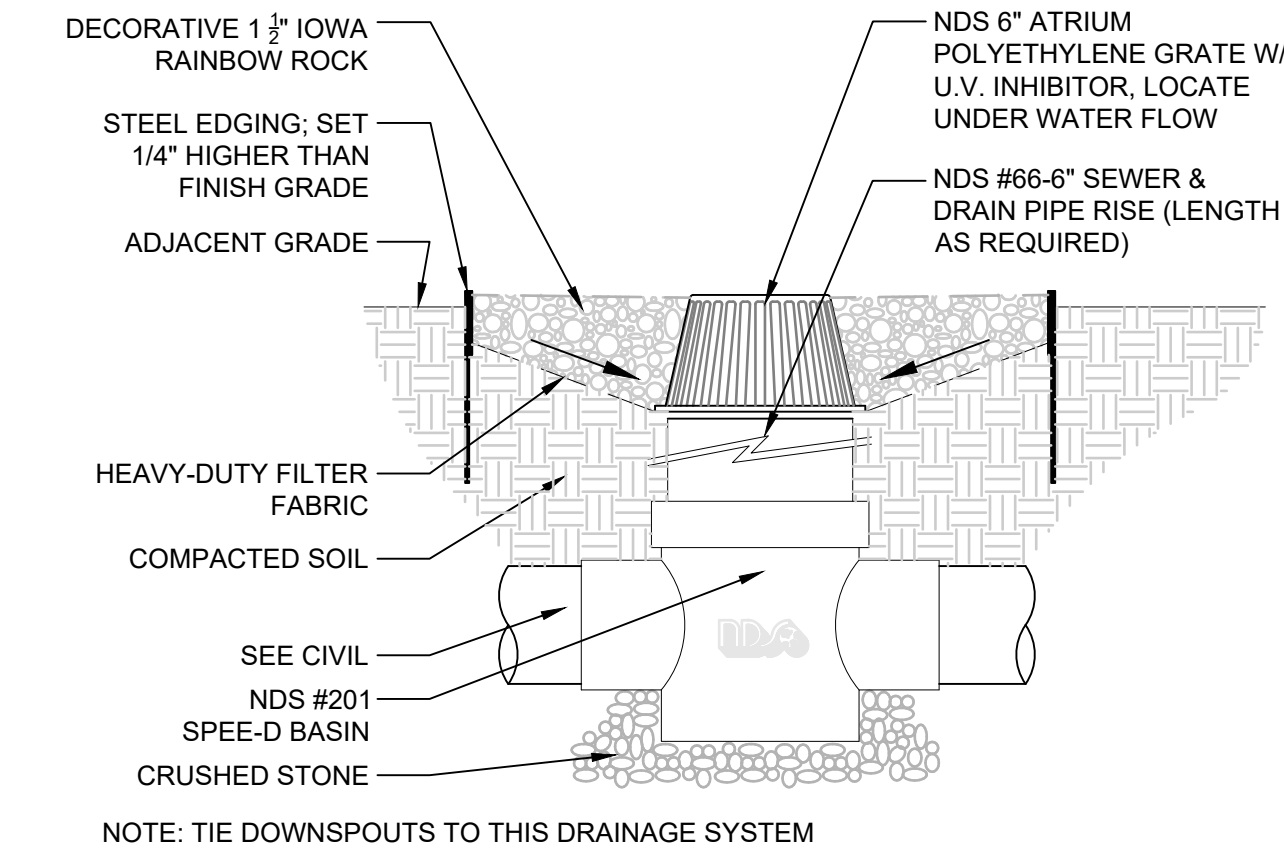


NOTES:
1. CONCRETE TO BE 3000 PSI.

01 CONCRETE PAVING - PEDESTRIAN
1" = 1'-0"

MATERIALS SCHEDULE

KEY	DESCRIPTION	DETAIL
Storm Drainage Utilities		
(33-40-01)	DOWNSPOUT DRAIN	03/L-200
Paving		
(P-101)	PEDESTRIAN CONCRETE	01/L-200



02 GUTTER DRAIN AT PATIO
1" = 1'-0" PDTL-PR4_VE-42

ARCHITECT OF RECORD:

WILLIAMS
BLACKSTOCK
ARCHITECTS

2204 FIRST AVENUE SOUTH | SUITE 200
BIRMINGHAM, ALABAMA 35233

ARCHITECTURE, INTERIORS, PLANNING

ARCHITECTS PROJECT NO.

25-080.00



CONSULTANT INFORMATION:

MLD
MacknallyLandDesign
4000 3RD AVENUE SOUTH | SUITE 100
BIRMINGHAM, ALABAMA 35222

PROJECT NAME:

VESTAVIA HILLS FIRE
STATION No. 4
EXPANSION

PROJECT ADDRESS:

13041 LIBERTY PKWY, VESTAVIA
HILLS, AL 35242

CLIENT NAME:

THE CITY OF
VESTAVIA HILLS

CLIENT PROJECT NO.:

00-0000

ASR PROJECT NO.:

XX-XXXX

KEY PLAN:

ISSUE STATUS:

100% BID DOCUMENTS

ISSUE DATE:

JUNE 12, 2026

REVISIONS:

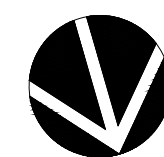
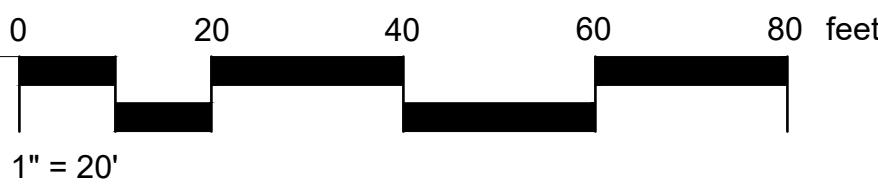
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DRAWING TITLE:

HARDSCAPE PLAN

SHEET NUMBER:

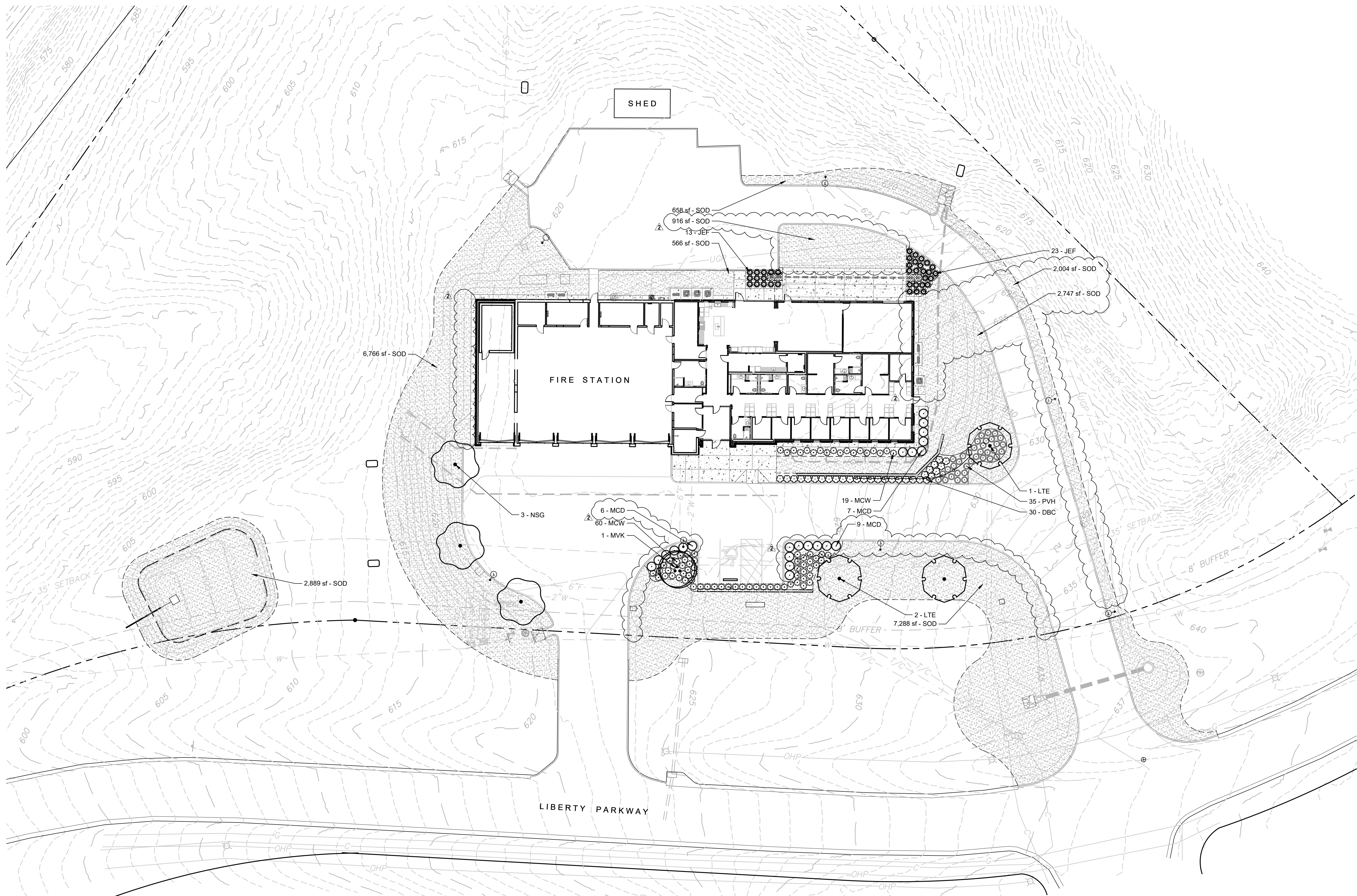
L-200





PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	CAL.	HT.	SPD.	SIZE/R.B.	SPACING	QTY	REMARKS
TREES									
LTE	LIRIODENDRON TULIPIFERA 'JFS-OZ'	EMERALD CITY® TULIP POPLAR	3"	13-15'	4-5'	32-34"	AS SHOWN	3	STRONG CENTRAL LEADER, WELL BRANCHED, FULL CANOPY, MATCHED
MVK	MAGNOLIA VIRGINIANA 'MVMTF'	KELTYK® SWEETBAY MAGNOLIA	-	10-12'	5-6'	32-34"	AS SHOWN	1	FULL CANOPY, WELL BRANCHED, MULTI-TRUNK, 3 TRUNK MIN; EACH TRUNK A MIN. OF 1" DIA.
NSG	NYSSA SYLVATICA 'NSUHF'	GREEN GABLE™ TUPELO	3"	13-15'	4-5'	32-34"	AS SHOWN	3	STRONG CENTRAL LEADER, FULL CANOPY, WELL BRANCHED, MATCHED
SHRUBS									
DBC	DISTYLUM X 'PIDIST-II'	BLUE CASCADE® DISTYLUM	-	18-24"	18"-24"	3 GAL	3' O.C.	30	FULL PLANT, FREE OF WEEDS
JEF	JUNCUS EFFUSUS	SOFT RUSH	-	18-24"	20-24"	3 GAL	3' O.C.	36	FULL PLANT, FREE OF WEEDS
MCW	MUHLENBERGIA CAPILLARIS 'WHITE CLOUD'	WHITE CLOUD MUHLY GRASS	-	18-24"	20-24"	3 GAL	3' O.C.	80	FULL PLANT, FREE OF WEEDS
MCD	MYRICA CERIFERA 'DON'S DWARF'	DON'S DWARF WAX MYRTLE	-	20-24"	20-24"	3 GAL	4' O.C.	29	FULL PLANT, FREE OF WEEDS
PVH	PANICUM VIRGATUM 'HEAVY METAL'	HEAVY METAL SWITCH GRASS	-	18-24"	12'-18"	3 GAL	3' O.C.	35	FULL PLANT, FREE OF WEEDS
KEY	BOTANICAL NAME	COMMON NAME	CAL.	HT.	SPD.	SIZE/R.B.	SPACING	QTY	REMARKS
SOD	ZOYSIA X 'EMPIRE'	EMPIRE ZOYSIA (OR MATCH EXISTING SOD)	-					22,767 SF	SOLID SOD, FREE OF WEEDS



1. GENERAL NOTES:

- 1.1. CODES AND SPECIFICATIONS:
- A. GENERAL BUILDING CODE:
- INTERNATIONAL BUILDING CODE, 2021 EDITION.
- B. ASCE 7-16: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
- C. CONCRETE:
- BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-19)
- D. STRUCTURAL STEEL:
- SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISC 360-16, ALLOWABLE STRESS DESIGN (ASD)
- E. STEEL DECK:
- STEEL DECK INSTITUTE DESIGN STANDARDS FOR NON-COMPOSITE STEEL FLOOR DECK, STEEL ROOF DECK, COMPOSITE STEEL FLOOR DECK SLABS, AND QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK ANS/SDI-17.
- F. MASONRY:
1. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES TMS 402-16.
2. SPECIFICATIONS FOR MASONRY STRUCTURES.
- G. TIMBER:
- NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION, AMERICAN FOREST & PAPER ASSOCIATION, NDS-18
- H. COLD-FORMED METAL FRAMING:
- NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE AISI S100-16 (2020) W/ S2.20.

- 1.2. THE GENERAL NOTES ARE NOT A SUBSTITUTE OR A REPLACEMENT FOR THE PROJECT SPECIFICATIONS. THESE NOTES ARE INTENDED AS A GUIDE TO THE DESIGN AND/OR CONSTRUCTION REQUIREMENTS ESTABLISHED FOR THIS PROJECT. NO CONTRACTOR SHOULD ATTEMPT TO ODOLO, BID, OR CONSTRUCT ANY PORTION OF THE WORK HEREIN WITHOUT CONSULTING THE PROJECT SPECIFICATIONS. THE MORE STRINGENT REQUIREMENT SHALL APPLY WHERE CONFLICTS OCCUR BETWEEN THESE NOTES AND THE SPECIFICATIONS, UNLESS A WRITTEN CLARIFICATION IS ISSUED BY THE STRUCTURAL ENGINEER.
- 1.3. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE DRAWINGS OF OTHER CONSULTANTS' AND TRADES. THE CONTRACTOR SHALL COORDINATE THE VARIOUS REQUIREMENTS.
- 1.4. DO NOT SCALE THESE DRAWINGS.
- 1.5. ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.
- 1.6. CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. THE STRUCTURAL ENGINEER AND ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION.
- 1.7. VERIFY ELEVATOR PIT DIMENSIONS, LOCATIONS, LOADINGS, AND DETAILS WITH THE ELEVATOR SUPPLIER PRIOR TO THE FABRICATION AND/OR INSTALLATION OF ANY MATERIAL.
- 1.8. FIREPROOFING OF STRUCTURAL ELEMENTS IS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO THE DRAWINGS OF OTHER CONSULTANTS FOR SUCH INFORMATION.
- 1.9. ALL ARCHITECTURAL AND UTILITY HALFTONE BACKGROUNDS ON PLANS, SECTIONS, AND ELEVATIONS ARE FOR REFERENCE ONLY AND ARE NOT UNDER THE PROFESSIONAL ENGINEERING SEAL RELATED TO THE STRUCTURAL ELEMENTS INDICATED IN THESE DRAWINGS. REFERENCE ARCHITECTURAL AND UTILITY DRAWINGS FOR NON-STRUCTURAL ELEMENTS INDICATED.

2. SPECIAL INSPECTIONS: (BY TESTING AGENCY)

- 2.1. SPECIAL INSPECTOR (SI) SHALL BE RETAINED AND PAID BY THE OWNER.
- 2.2. THE SPECIAL INSPECTOR SHALL BE FULLY QUALIFIED, APPROVED BY THE BUILDING OFFICIAL, REGISTERED BY APPLICABLE REGISTRATION BOARD IF REQUIRED AND ACCEPTABLE TO THE ARCHITECT.
- 2.3. THE DUTIES OF THE SPECIAL INSPECTOR SHALL INCLUDE, BUT ARE NOT LIMITED TO, VERIFICATION OF CONSTRUCTION QUALITY CONTROL, TESTING, COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, BUILDING CODE REQUIREMENTS, AND LOCAL BUILDING DEPARTMENT REQUIREMENTS.
- 2.4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROPER NOTIFICATION TO THE SPECIAL INSPECTOR AND PROCEED WITH THE CONSTRUCTION ONLY AFTER THE SPECIAL INSPECTOR'S REVIEW AND APPROVAL.
- 2.5. SPECIAL INSPECTOR'S SHALL KEEP RECORDS OF ALL INSPECTIONS AND TESTING. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE CODE OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CODE OFFICIAL AND THE DESIGN PROFESSIONAL OF RECORD. A FINAL REPORT OF INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTION AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. INTERIM REPORTS SHALL BE SUBMITTED PERIODICALLY WITH MINIMUM FREQUENCY OF TWO WEEKS.
- 2.6. SPECIAL INSPECTIONS ARE REQUIRED FOR, BUT NOT LIMITED TO, THE ACTIVITIES AS INDICATED ON SHEET SJ.02 PER THE 2021 INTERNATIONAL BUILDING CODE.
- 2.7. FAILURE TO NOTIFY THE SPECIAL INSPECTOR MAY RESULT IN THE CONTRACTOR HAVING TO REMOVE WORK FOR THE PURPOSE OF INSPECTION AT THE CONTRACTOR'S EXPENSE. PREMATURE NOTIFICATION FOR INSPECTIONS WILL RESULT IN AN ADDITIONAL INSPECTION WITH THE EXPENSES AND FEES PAID BY THE CONTRACTOR.

3. INSPECTION AND TESTING NOTES:

- 3.1. AN INDEPENDENT TESTING LABORATORY SHALL BE RETAINED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS TO PERFORM TESTING OF FOUNDATION BEARING STRATA, ENGINEERED FILLS, CONCRETE, GROUT, STEEL, AND WELDING. SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS.
- 3.2. THE TESTING AGENCY SHALL VERIFY THAT ALL WELDERS HAVE SATISFACTORILY PASSED AWS QUALIFICATION TESTS FOR THE WELDS WHICH THEY WILL PERFORM.
- 3.3. THE CONTRACTOR AND TESTING AGENCY SHALL REQUIRE THAT AWS QUALIFICATION TESTS FOR WELDING OF MATERIAL LESS THAN 1/8" IN THICKNESS ARE SATISFACTORILY PASSED BY WELDERS EXPECTED TO ERECT LIGHTGAGE FRAMING MATERIALS. THESE TESTS ARE NOT THE SAME AS FOR MATERIALS 1/8" OR GREATER IN THICKNESS (I.E. STRUCTURAL STEEL MATERIALS).
- 3.4. ALL WELDING SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH AWS D1.1 OR D1.3 AS APPROPRIATE TO THE MATERIAL THICKNESS.
- 3.5. THE TESTING AGENCY SHALL VERIFY THAT THE METAL DECK IS ATTACHED TO THE STRUCTURAL STEEL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPROVED SHOP DRAWINGS.
- 3.6. CONCRETE TESTING SHALL BE IN ACCORDANCE WITH ACI 301 CHAPTER 16 AND WITH THE PROJECT SPECIFICATIONS.

4. CONSTRUCTION AND SAFETY:

- 4.1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS, AND PRECAUTIONS TO ALL WORKERS, PERSONS, AND PROPERTY ON AND/OR ADJACENT TO THE PROJECT AND SHALL PROTECT AGAINST ANY DAMAGE, INJURY, OR LOSS.
- 4.2. MEANS AND METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.
- 4.3. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE. SUCH LOADS SHALL NOT EXCEED THE DESIGN LOAD OF THE STRUCTURE AT ANY TIME.
- 4.4. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, AND ANY TEMPORARY BRACING OR SUPPORT REQUIRED TO ACCOMMODATE THE CONTRACTOR'S MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

5. SUBMITTALS:

- 5.1. ALL SHOP DRAWINGS MUST BE REVIEWED FOR "APPROVAL" AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.
- 5.2. SUBMIT EACH SET OF SHOP DRAWINGS DIGITALLY. THE REVIEWED PDF FILE WILL BE RETURNED TO THE CONTRACTOR.
- 5.3. THE GENERAL CONTRACTOR SHALL SUBMIT, FOR ENGINEER REVIEW, SHOP DRAWINGS FOR THE FOLLOWING ITEMS. ITEMS MARKED (*) HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. ITEMS MARKED (#) SHALL BE SUBMITTED FOR ENGINEER'S RECORD ONLY.
- A. STRUCTURAL STEEL (*)
- B. REINFORCING STEEL
- C. STEEL DECK (*)
- D. CURTAIN WALL (*)
- E. CONCRETE MIX DESIGNS
- F. COLD-FORMED METAL FRAMING (*)#
- G. SHOP FABRICATED WOOD TRUSSES (*)
- H. CONCRETE FORMWORK (#)
- 5.4. DESIGN CALCULATIONS: THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER'S REVIEW TWO SETS OF DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED, FOR THE FOLLOWING ITEMS:
- A. STRUCTURAL STEEL CONNECTIONS
- B. SHOP FABRICATED WOOD TRUSSES
- C. COLD-FORMED METAL FRAMING
- D. CURTAIN WALL
- E. CONCRETE FORMWORK

6. DESIGN LOADS:

- 6.1. DEAD LOADS: ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.
- 6.2. LIVE LOADS: LIVE LOAD REDUCTIONS HAVE BEEN APPLIED TO THE STRUCTURAL MEMBERS IN ACCORDANCE WITH THE BUILDING CODE. PARTITION LIVE LOAD OF 15 PSF HAS BEEN INCLUDED AND IS INDICATED AS "15" BELOW.
- ELEVATED SLABS ----- 100
- MECHANICAL ATTIC ----- 100

6.3. SNOW LOADS:

- A. GROUND SNOW LOAD (Pg) ----- 5 PSF
- B. IMPORTANCE FACTOR (I) ----- 1.2
- C. EXPOSURE FACTOR (Ce) ----- 1.0
- D. THERMAL FACTOR (Ct) ----- 1.0
- 6.4. WIND LOADS:
- A. BASIC WIND SPEED (3-SECOND GUST) ----- 119 MPH
- B. WIND IMPORTANCE FACTOR (Iw) ----- 1.0
- C. WIND EXPOSURE ----- C
- D. INTERNAL PRESSURE COEFFICIENT ----- +/- 0.18
- E. COMPONENTS AND CLADDING PRESSURES ----- SEE TYPICAL DETAILS
- F. SEE STORM SHELTER NOTES IN GENERAL NOTE SECTION 18 FOR STORM SHELTER WIND LOAD.

6.5. SEISMIC LOADS:

- A. SEISMIC IMPORTANCE FACTOR (Ie) ----- 1.5
- B. MAPPED SPECTRAL RESPONSE ACCELERATIONS:
- Ss ----- 0.292
- S1 ----- 0.1
- SITE CLASS ----- D
- SPECTRAL RESPONSE COEFFICIENTS:
- Sds ----- 0.305
- Sd1 ----- 0.16
- C. SEISMIC DESIGN CATEGORY ----- D
- BASIC SEISMIC-FORCE RESISTING SYSTEM:
- APPARATUS BAY: SPECIAL REINFORCED MASONRY SHEAR WALLS
- LIVING QUARTERS (NORTH-SOUTH): LIGHT-FRAME (COLD-FORMED STEEL) SHEAR WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE OR STEEL SHEETS
- LIVING QUARTERS (EAST-WEST): STEEL ORDINARY MOMENT FRAMES
- DESIGN BASE SHEAR:
- APPARATUS BAY ----- 50 KIPS
- LIVING QUARTERS (N-S) ----- 55 KIPS
- LIVING QUARTERS (E-W) ----- 85 KIPS
- D. SEISMIC RESPONSE COEFFICIENT (Cs)
- APPARATUS BAY ----- 0.092
- LIVING QUARTERS (N-S) ----- 0.070
- LIVING QUARTERS (E-W) ----- 0.131
- E. RESPONSE MODIFICATION FACTOR (R)
- APPARATUS BAY ----- 5
- LIVING QUARTERS (N-S) ----- 6.5
- LIVING QUARTERS (E-W) ----- 3.5
- F. ANALYSIS PROCEDURE:
- EQUIVALENT LATERAL FORCE METHOD

7. FOUNDATION NOTES:

- 7.1. GEOTECHNICAL REPORT: FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY BUILDING AND EARTH SCIENCES, INC., TITLED "REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL EVALUATION VESTAVIA HILLS FIRE STATION 4 EXPANSION VESTAVIA HILLS, ALABAMA PROJECT NO. 8420359". THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND FOLLOW ALL REQUIREMENTS WITHIN THE RECOMMENDATIONS SECTION.
- 7.2. MAXIMUM BEARING PRESSURES (PSF):
- TYPICAL (BEARING ON SOIL) ----- 2500
- TYPICAL (BEARING ON ROCK) ----- 5000
- 7.3. ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL BOTTOM ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.
- 7.4. ALL AREAS TO HAVE SLABS ON GRADE SHALL BE PROOF-ROLLED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT UNDER OBSERVATION OF THE GEOTECHNICAL ENGINEER AND APPROVED PRIOR TO PREPARATION FOR CONCRETE PLACEMENT.
- 7.5. COMPACTED FILL WITHIN THE BUILDING AREA SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT.
- 7.6. BACKFILL FOR FOUNDATION AND RETAINING WALLS SHALL BE A FREE DRAINING GRANULAR MATERIAL, SUCH AS SIZE #57 STONE. BACKFILL SHALL BE COMPACTED SUFFICIENTLY TO PREVENT SODDING OF SURFACE ADJACENT TO WALL. THE GRANULAR MATERIAL SHALL BE PLACED IN A 45 DEGREE WEDGE EXTENDING FROM THE BASE OF THE WALL (TOP OF FOOTING) TO WITHIN 1'-0" OF FINISHED GRADE.

8. FLOOR TOLERANCES:

- 8.1. AFTER PLACING SLABS, FINISH SURFACE TO THE FOLLOWING TOLERANCES OF F(F) (FLOOR FLATNESS) AND F(L) (FLOOR LEVELNESS) MEASURED ACCORDING TO ASTM E 1155:

FINISH TYPE	SLAB ON GRADE	
	OVERALL	LOCAL
	FF	FF
SCRATCH FINISH	15	13
FLOAT FINISH	18	15
TROWEL FINISH	28	17

- 8.2. SPECIFIED OVERALL F-NUMBERS APPLY TO THE WHOLE FLOOR, TAKEN AS ONE. MINIMUM LOCAL F-NUMBERS APPLY TO EACH SLAB, BOUNDED BY CONSTRUCTION JOINTS.

9. CONCRETE NOTES:

- 9.1. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:
- 3000 PSI NORMAL WT. - FOOTINGS, DRILLED PIERS, SLAB ON GRADE.
- 4000 PSI NORMAL WT. - WALLS, COLUMNS, ELEVATED FLOOR SLABS.
- 9.2. LIGHTWEIGHT CONCRETE SHALL HAVE A MAXIMUM WEIGHT OF 116 PCF.
- 9.3. PEDESTAL, COLUMN AND WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING.
- 9.4. BEAM AND SLAB TOP BARS: EXTEND INTO SUPPORT IN ACCORDANCE WITH ACI STANDARD 318 (CODE). WHERE SUCH EXTENSION IS NOT OBTAINABLE, TERMINATE THE BAR IN A STANDARD RECOMMENDED 90 DEGREE HOOK.
- 9.5. EARTH SUPPORTED SLABS: 4" THICK, REINFORCED WITH 6x6 W2.9/W2.9 WWR (SHEETS) AT TOP THIRD OF SLAB DEPTH, UNLESS OTHERWISE NOTED.
- 9.6. CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
- 9.7. JOISTS, JOISTS AND SLABS SHALL HAVE NO HORIZONTAL JOINTS. ANY STOP IN CONCRETE WORK MUST BE MADE AT CENTER (C/R) (1/3 POINT FOR POST-TENSIONING) OF SPAN WITH KEYS VERTICAL BULKHEAD, UNLESS NOTED.

10. CONCRETE REINFORCING STEEL NOTES:

- 10.1. REINFORCING BARS: ASTM A615 GRADE 60.
- 10.2. WELDED WIRE REINFORCEMENT (WWR): ASTM A1064, MINIMUM LAP AND EMBEDMENT BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 6 INCHES.
- 10.3. REINFORCING STEEL SHOWN IN SECTIONS IS A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.
- 10.4. REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS, WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.
- 10.5. DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE ENGINEER.
- 10.6. ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- 10.7. ALL REINFORCING MARKED "CONTINUOUS" SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- 10.8. PROVIDE CORNER BARS WITH CLASS "B" LAP SPLICE AT ALL FOUNDATION INTERSECTIONS AND CORNERS.
- 10.9. CONCRETE COVERAGE OF REINFORCEMENT (UNO ON DRAWINGS):
- FOOTINGS ----- 3" BOTTOM & SIDES, 2" TOP
- WALLS ----- 2" EXTERIOR FACE, 3/4" INTERIOR FACE
- PEDESTALS ----- 1-1/2" CLEAR OF TIES
- BEAMS ----- 1-1/2" CLEAR OF STIRRUPS
- SLABS NOT EXPOSED TO WEATHER ----- 3/4" BOTTOM & TOP
- SLABS EXPOSED TO WEATHER-RS OR LESS ----- 1 1/2"
- #6 OR LARGER ----- 2"

11. STRUCTURAL STEEL NOTES:

- 11.1. STRUCTURAL STEEL: ASTM A992 FOR WIDE FLANGE SHAPES; ASTM A36 ELSEWHERE.
- 11.2. HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B.
- 11.3. WELDED CONNECTIONS: EPOXY ELECTRODES, MINIMUM SIZE FILLET WELD 3/16".
- 11.4. HEADED ANCHOR RODS: ASTM F1554 GRADE 36 AND HEAVY HEX NUT, UNLESS OTHERWISE INDICATED.
- 11.5. HEADED STUDS: ASTM A108, GRADE 1015 OR 1020, COLD-FINISHED CARBON STEEL WITH DIMENSIONS COMPLYING WITH AISC.
- 11.6. BOLTED CONNECTIONS: ASTM F3125 GRADE A325-N AND SLIP-CRITICAL TYPE A325-SC IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS." BOLTS THROUGH 4" WIDE BEAM FLANGES SHALL BE 3/8" DIAMETER. OTHER BOLTS SHALL BE 3/4" DIAMETER. USE SLIP-CRITICAL CONNECTIONS FOR WIND FRAMES, MOMENT CONNECTIONS, SKYLIGHT FRAMING AND OTHER CONNECTIONS NOTED AS SLIP-CRITICAL. USE SNUG TIGHT BEARING CONNECTIONS FOR ALL OTHER BOLTED CONNECTIONS.

- 11.7. BOLTS SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT BOLTS MAY BE USED. ACTUAL NUMBER, UNLESS SPECIFIED, TO BE IN ACCORDANCE WITH AISC.
- 11.8. ALL STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST FORCES INDICATED, PROVIDED BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
- 11.9. DESIGN CALCULATIONS FOR THE CONNECTIONS SHALL BE PROVIDED BY THE CONTRACTOR AND DESIGNED BY A PROFESSIONAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. THE CONNECTION DESIGNER SHALL REVIEW THE CONNECTIONS INDICATED IN THE SHOP DRAWINGS TO ENSURE THE SHOP DRAWINGS CONFORM WITH THE CONNECTION DESIGN CALCULATIONS. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.
- 11.10. ALL NON-COMPOSITE BEAM CONNECTIONS SHALL BE "SIMPLE SHEAR CONNECTIONS" UNLESS NOTED. WHERE BEAM REACTIONS ARE NOT SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL BE DESIGNED TO SUPPORT A REACTION EQUAL TO ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY FROM THE BEAM SHOWN ON THE DRAWING LOAD TABLE MULTIPLIED BY A FACTOR OF 1.2 FOR GIVEN SHEAR, SPAN, AND GRADE OF STEEL.

- 11.11. TO THE REACTION LISTED ABOVE, ADD ANY LOADS OR REACTIONS OF MEMBERS SUPPORTED BY THE BEAM WITHIN THREE FEET OF BEAM END AND THE VERTICAL COMPONENTS OF FORCES IN BRACE MEMBERS FRAMING INTO THE BEAM.
- 11.12. WHERE BEAM REACTIONS ARE SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL DEVELOP THE REACTIONS SHOWN, WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING AND DETAILING THE CONNECTION.
- 11.13. ALL BEAM CONNECTIONS SHALL BE DESIGNED FOR AN AXIAL LOAD OF 5% OF THE BEAM REACTION UNLESS NOTED.
- 11.14. FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."
- 11.15. WHERE STEEL BEAMS ARE CONTINUOUS OVER COLUMNS, PROVIDE WEB STIFFENER PLATES ON EACH SIDE OF THE BEAM WEB, OF THICKNESS EQUAL TO THE BEAM FLANGE THICKNESS, LOCATED IN ALIGNMENT WITH COLUMN WEB OR FLANGES OR CENTER LINE OF TUBES AND PIPE COLUMNS.
- 11.16. FABRICATE CROSS BRACING WITH SUFFICIENT DRAW TO PREVENT SAGGING.
- 11.17. ALL COLUMN ANCHOR ROD HOLES TO BE OVERSIZED AS REQUIRED. THE MAXIMUM HOLE SIZE FOR ANCHOR RODS IN BASE PLATES SHALL CONFORM TO THE REQUIREMENTS LISTED IN TABLE 14-2 OF THE AISC STEEL CONSTRUCTION MANUAL. PLATE WASHERS ARE REQUIRED WITH ALL OVERSIZED HOLES AND SHALL MEET THE MINIMUM DIMENSIONS LISTED IN TABLE 14-2.
- 11.18. THE STEEL FRAME IS "NON-SELF-SUPPORTING." ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.
- 11.19. BRACING AND TRUSS CONNECTIONS SHALL BE SIZED TO DEVELOP THE LOAD SPECIFIED ON THE DESIGN DRAWINGS. FOR DESIGN PURPOSES (H) INDICATES TENSION AND (I) INDICATES COMPRESSION ON AXIALLY LOADED MEMBERS.
- 11.20. ALL CONNECTION DESIGN FORCES PROVIDED HAVE BEEN FACTORED USING ASD COMBINATIONS, UNO.

12. STEEL DECK NOTES:

- 12.1. DECK PROPERTIES AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE.
- 12.2. DO NOT SHORE DECK DURING CONCRETE PLACEMENT, UNLESS NOTED OTHERWISE.
- 12.3. STORM SHELTER DECK: 12" THICK CONCRETE SLAB ON STEEL COMPOSITE FLOOR DECK. DECK SHALL CONFORM TO 3V18 IRIS GRADE GALVANIZED AS MANUFACTURED BY (VULCRRAFT) OR APPROVED EQUAL --- FOR FORMWORK ONLY.

13. MASONRY NOTES:

- 13.1. MASONRY CONSTRUCTION SHALL CONFORM TO TMS 602 SPECIFICATION.
- 13.2. COMPRESSIVE STRENGTH OF MASONRY (Fm) SHALL BE 2500 PSI AT 28 DAYS. MASONRY UNIT STRENGTH OF 3200 PSI IS REQUIRED TO ACHIEVE REQUIRED Fm.
- 13.3. MASONRY GROUT FILL SHALL CONFORM TO ASTM C 476. GROUT EITHER FINE (SAND) OR COURSE (SAND + 475 MAX) AGGREGATE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. MASONRY CONCRETE FILL SHALL CONFORM TO THE REQUIREMENTS NOTED UNDER "CONCRETE" IN THE GENERAL NOTES.
- 13.4. GROUTING
- A. ALL BOND BEAMS SHALL BE FILLED WITH GROUT AND REINFORCED AS INDICATED ON THE DRAWINGS (DETAILS OR SCHEDULES). MORTAR FILL IS NOT PERMITTED.
- B. ALL MASONRY "WALL CELLS" OR CAVITIES INDICATED AS REINFORCED SHALL BE GROUTED FOR THE FULL HEIGHT OF THE WALL, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. UNREINFORCED WALLS INDICATED AS GROUTED SHALL BE GROUTED FULL HEIGHT, UNLESS SPECIFICALLY NOTED OTHERWISE. MORTAR FILL IS NOT PERMITTED.
- C. ALL MASONRY CELLS OR CAVITIES BELOW GRADE SHALL BE GROUTED SOLID UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. MORTAR FILL IS NOT PERMITTED.
- D. VERTICAL GROUTING SHALL BE LOW LIFT OR HIGH LIFT AS FOLLOWS:
1. LOW LIFT GROUTING SHALL BE USED FOR ALL CAVITY WALLS AND MAY BE USED FOR ALL WALLS AT THE OPTION OF THE CONTRACTOR. LIFTS SHALL NOT EXCEED 40' IN HEIGHT.
2. HIGH LIFT GROUTING IS PERMISSIBLE ONLY FOR FILLING OF CELLULAR MASONRY UNITS AND SHALL NOT EXCEED ONE STORY IN HEIGHT. CLEAN OUT HOLES SHALL BE PROVIDED AT THE BASE OF EACH GROUTED CELL.

- 13.5. MORTAR SHALL CONFORM TO ASTM C 270. MORTAR SHALL BE TYPE "M" FOR BELOW GRADE APPLICATIONS AND TYPE "S" FOR ABOVE GRADE APPLICATIONS AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH 2500 PSI.

- 13.6. ALL MASONRY SHALL BE RUNNING BOND, UNLESS NOTED.

- 13.7. ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE OR GROUT.

- 13.8. ALL INTERIOR PARTITION WALLS SHALL HAVE A 8" DEEP BOND BEAM WITH 1x5 CONTINUOUS TOP AND BOTTOM AT THE TOP OF THE WALL, UNLESS NOTED OTHERWISE IN DRAWINGS.

13.9. REINFORCING:

- A. ALL BARS MARKED "CONTINUOUS" SHALL BE LAPPED PER "MASONRY WALL LAP" SPLICE SCHEDULE IN TYPICAL DETAILS.
- B. FOUNDATION DOWELS MAY SLOPE A MAXIMUM OF 1:6 TO ALIGN WITH WALL CAVITIES OR VERTICAL CMU CORES. GREATER SLOPES WILL REQUIRE REPLACEMENT OF THE FOUNDATION DOWELS.
- C. SPLICED REINFORCING SHALL BE LAPPED UNDER "REINFORCING" ABOVE OR AS SHOWN ON DRAWINGS, WHICHEVER IS GREATEST. ALL SPLICES SHALL BE WIRED TOGETHER.
- D. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4" FROM MASONRY AND SHALL BE HELD IN POSITION TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 4'-0". ACCESSORIES FOR SUCH SUPPORT SHALL BE USED. PROVIDE "AA WIRE PRODUCTS COMPANY" (OR APPROVED EQUAL) REBAR POSITIONER AA225 OR AA259 FOR VERTICAL BARS AND AA28 FOR HORIZONTAL BARS OR APPROVED EQUAL PRODUCTS FROM OTHER SUPPLIERS.

- E. HORIZONTAL JOINT REINFORCING SHALL BE LAPPED NO LESS THAN 6" AT ALL SPLICES, INCLUDING CORNERS AND TEES WHERE NO CONCRETE JOINT IS USED.
- F. ALL HORIZONTAL JOINT REINFORCING SHALL STOP AT CONTROL JOINTS.

- G. HORIZONTAL REINFORCING IN BOND BEAMS SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.

- 13.10. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DETAILS OF MASONRY CONTROL JOINTS:

- A. PROVIDE MAXIMUM SPACING OF 25'-0" O.C. ALONG CONTINUOUS RUNS OF CONCRETE MASONRY UNITS.

- B. CONTROL JOINTS SHALL NOT BE WITHIN 4'-0" FROM ANY CORNER.

- 13.11. WHEN REINFORCING IS SPECIFIED, PROVIDE AT EACH SIDE OF CONTROL JOINTS, OPENINGS AND WALL ENDS.

- 13.12. ALL MASONRY WALLS SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES IN THE FINAL CONSTRUCTED CONFIGURATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY BRACE THE WALLS FOR VERTICAL AND LATERAL LOADS THAT COULD POSSIBLY BE APPLIED PRIOR TO COMPLETION OF CONSTRUCTION.

- 13.13. PROVIDE HORIZONTAL LADDER-TYPE JOINT REINFORCING AT 16" O.C., U.N.O.

14. WOOD CONSTRUCTION NOTES:

- 14.1. ALL SAWN LUMBER IN CONTACT WITH GROUND OR CONCRETE SHALL BE SOUTHERN PINE PRESURE TREATED PERK ALKALINE COPPER QUATERNARY (ACQ) IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD.
- A. ACQ RETENTION:
- 0.40 LB/FT3 GROUND CONTACT
- 0.25 LB/FT3 ABOVE GROUND

- B. ALL CONNECTIONS, FASTENERS AND OTHER METAL PRODUCTS USED WITH ACQ PRESURE TREATED LUMBER SHALL BE HOT-DIP GALVANIZED, STAINLESS STEEL OR AS RECOMMENDED BY THE ACQ MANUFACTURER.

- 14.2. WOOD FRAMING MEMBERS: #2 SOUTHERN PINE WITH AN ALLOWABLE BENDING STRESS PER DESIGN VALUES INDICATED IN THE NATIONAL DESIGN SPECIFICATION.

- 14.3. FLOOR JOISTS AND BEAMS SHALL BE LATERALLY BRACED AT MAXIMUM INTERVALS OF 8'-0" BY SOLID BRIDGING OR TRANSVERSE BEAMS AND THE ENDS AT POINTS OF BEARING SHALL BE LATERALLY SUPPORTED TO PREVENT ROTATION.

- 14.4. PLYWOOD SHEAR WALLS: 15/32 PLYWOOD, UNLESS NOTED. APA STRUCTURAL I RATED SHEATHING EXPOSURE 1, LONG DIMENSION OF PANEL PERPENDICULAR TO STUDS. ALL PLYWOOD EDGES BACKED WITH TWO-INCH NOMINAL OR WIDER FRAMING.

- 14.5. PLYWOOD SHEAR WALL NAILING, UNLESS NOTED:
- 8d HOT-DIPPED GALVANIZED COMMON NAILS, 2 INCHES AT ALL FOUR PANEL EDGES AND 12 INCHES AT INTERMEDIATE MEMBERS. PROVIDE BLOCKING AT ALL PANEL EDGES.

- 14.6. FLOOR SHEATHING: 23/32 PLYWOOD, APA STRUCTURAL I OR II RATED SHEATHING EXPOSURE 1, TONGUE AND-GROOVE EDGES. PANEL IDENTIFICATION INDEX 40/20

- 14.7. FLOOR SHEATHING NAILING, UNLESS NOTED:

- A. 8d NAILS AT 6 INCHES AT ALL FOUR PANEL EDGES AND 12 INCHES AT INTERMEDIATE SUPPORTS

- 14.8. ROOF SHEATHING: 23/32 PLYWOOD, APA STRUCTURAL I RATED SHEATHING EXPOSURE 1, TONGUE-AND-GROOVE EDGES. PANEL IDENTIFICATION INDEX 40/20. LONG DIMENSION OF PANEL PERPENDICULAR TO SUPPORTS.

- 14.9. ROOF SHEATHING NAILING, UNLESS NOTED:

- A. 10d HOT-DIPPED GALVANIZED COMMON NAILS, 6 INCH SPACING AT ALL PANEL EDGES AND 12 INCH SPACING AT INTERMEDIATE SUPPORTS. PROVIDE BLOCKING AT ALL PANEL EDGES.

- 14.10. DESIGN, FABRICATE AND ERECT WOOD TRUSSES IN ACCORDANCE WITH THE "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION" OF THE TRUSS PLATE INSTITUTE. TRUSS ERECTION PLANS AND CALCULATIONS SHALL BE PROVIDED BY THE CONTRACTOR AND DESIGNED BY A PROFESSIONAL ENGINEER. TRUSS ERECTION PLANS AND CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND SUBMITTED FOR THE FILES OF THE STRUCTURAL ENGINEER.

- 14.11. TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED LOADS:
- TOP CHORD DEAD LOAD ----- 15 PSF
- BOTTOM CHORD DEAD LOAD ----- 15 PSF
- TOP CHORD LIVE LOAD ----- 20 PSF

- 14.12. DESIGN ROOF TRUSSES TO RESIST THE WIND UPLIFT PRESSURES PROVIDED IN THE TYPICAL DETAILS.

- 14.13. IN ADDITION TO THE ABOVE LOADS, WOOD TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AND SPECIFICATIONS FOR TRUSS DESIGN, INFORMATION AND LOCATION, LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.

- 14.14. ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR WOOD TRUSSES SHALL BE DETAILED ON THE WOOD TRUSS MANUFACTURER'S ERECTION PLANS. BRACING MEMBERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

- 14.15. TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.

- 14.16. TRUSSES SHALL BE INSTALLED, BRACED AND ERECTED IN ACCORDANCE WITH ERECTION PLANS, AND BRACING REQUIREMENTS SPECIFIED BY THE TRUSS MANUFACTURER. AT A MINIMUM, THE GENERAL CONTRACTOR SHALL ENSURE THE GUIDELINES LISTED IN THE MOST RECENT VERSION OF BCSP-1, "THE GUIDE TO GOOD PRACTICE FOR HAULING, INSTALLING, AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" IS FOLLOWED.

15. COLD-FORMED METAL FRAMING NOTES:

- 15.1. ALL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE.
- 15.2. ALL FRAMING MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL CORRESPONDING TO THE REQUIREMENTS OF ASTM A1003, WITH A MINIMUM YIELD STRENGTH OF 33 KSI OR 50 KSI AS INDICATED.
- 15.3. ALL MEMBERS SHOWN ARE STANDARD DESIGNATIONS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).
- 15.4. DESIGN OF MEMBERS INDICATED IN STRUCTURAL DRAWINGS IS BASED ON MINIMUM PROPERTIES OF PRODUCTS PRODUCED BY "DIERICH INDUSTRIES, INC." NO SUBSTITUTION OF MATERIALS IS ACCEPTABLE FOR USE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. SUBSTITUTIONS ARE ACCEPTABLE, SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER AND SHALL MEET OR EXCEED ALL PROPERTIES OF PRODUCTS PRODUCED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).

- 15.5. FABRICATOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF ALL LIGHTGAGE STEEL FRAMING AND SHALL RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE ENGINEER SHALL SIGN AND SIGN BOTH CALCULATIONS AND SHOP DRAWINGS. GROUNDING CONNECTIONS SHOWN ON THE DRAWINGS ARE SCHEMATIC AND ARE INTENDED ONLY TO SHOW THE RELATIONSHIP OF THE MEMBERS AND INFORMATION FOR PRICING/BIDDING.

- 15.6. SUBMIT CALCULATIONS AND SHOP DRAWINGS FOR DETAILS, FABRICATION, AND ERECTION OF LIGHTGAGE STEEL FRAMING. DRAWINGS SHALL INCLUDE LAYOUT, SPACING, TYPE, MATERIAL/MEMBER PROPERTIES AND ALL DETAILS OF CONNECTIONS FOR ALL LIGHTGAGE STEEL FRAMING INDICATED ON THE STRUCTURAL DRAWINGS.

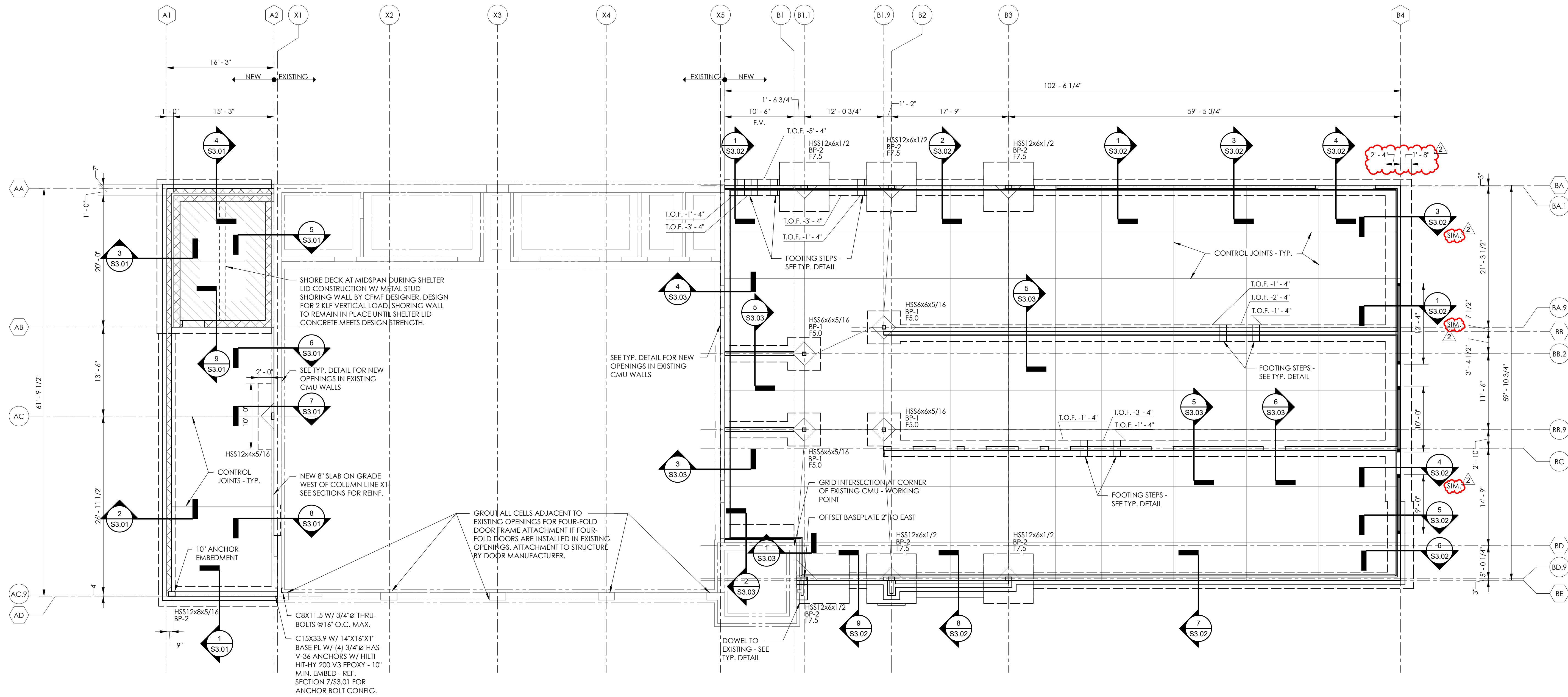
- 15.7. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMISSION. DRAWINGS SHALL BEAR THE CONTRACTOR'S APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR THE DESIGN AND CONSTRUCTION OF THE FRAMING.

- 15.8. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR AN ANGULAR FIT TIGHT AGAINST ABUTTING MEMBERS.

- 15.9. AXIALLY LOADED STUDS SHALL BE INSTALLED IN A MANNER WHICH WILL ASSURE THAT THEIR ENDS ARE POSITIONED TIGHT AGAINST THE INSIDE OF RUNNER WEBS PRIOR TO FASTENING. PROVIDE WEAR-AND-HORIZONTAL BRACING AT 36 INCHES MAXIMUM VERTICAL SPACING. BOTH STUD FLANGES, HORIZONTAL BRACING SHALL BE 1-1/2" X 20 GA STRAPS AND CS TYPE RUNNER SOLDIER BRIDGING AT EACH END OF WALL, ADJACENT TO WALL OPENINGS, AND ADJACENT TO WALL ENDS.

- 15.10. FLOOR OR ROOF JOISTS SHALL HAVE SOLID BLOCKING, A CUT-TO-LENGTH CS TYPE CLOSURE OR JOIST SECTION PLACED BETWEEN OUTER JOISTS, OVER ALL INTERIOR SUPPORTS, ADJACENT TO OPENINGS AND AT 8'-0" O/C MAXIMUM. BETWEEN SOLID BLOCKING PROVIDE STRAP BRACING OF 1-1/2 X 20 GA STRAPS. JOIST BRIDGING SHALL BE PROVIDED AT MID-SPAN OR AT 8'-0" O/C MAXIMUM FOR SPANS EXCEEDING 15'-0.

- 15.11. WHERE STUD FRAME TO STRUCTURAL FLOOR OR ROOF MEMBERS SUBJECT TO DEFLECTION FROM OCCUPANT LIVE LOADING, A DEFLECTION CLIP ASSEMBLY SHALL BE PROVIDED AT THE TOP RUNNER TO ACCOMMODATE VERTICAL STRUCTURAL

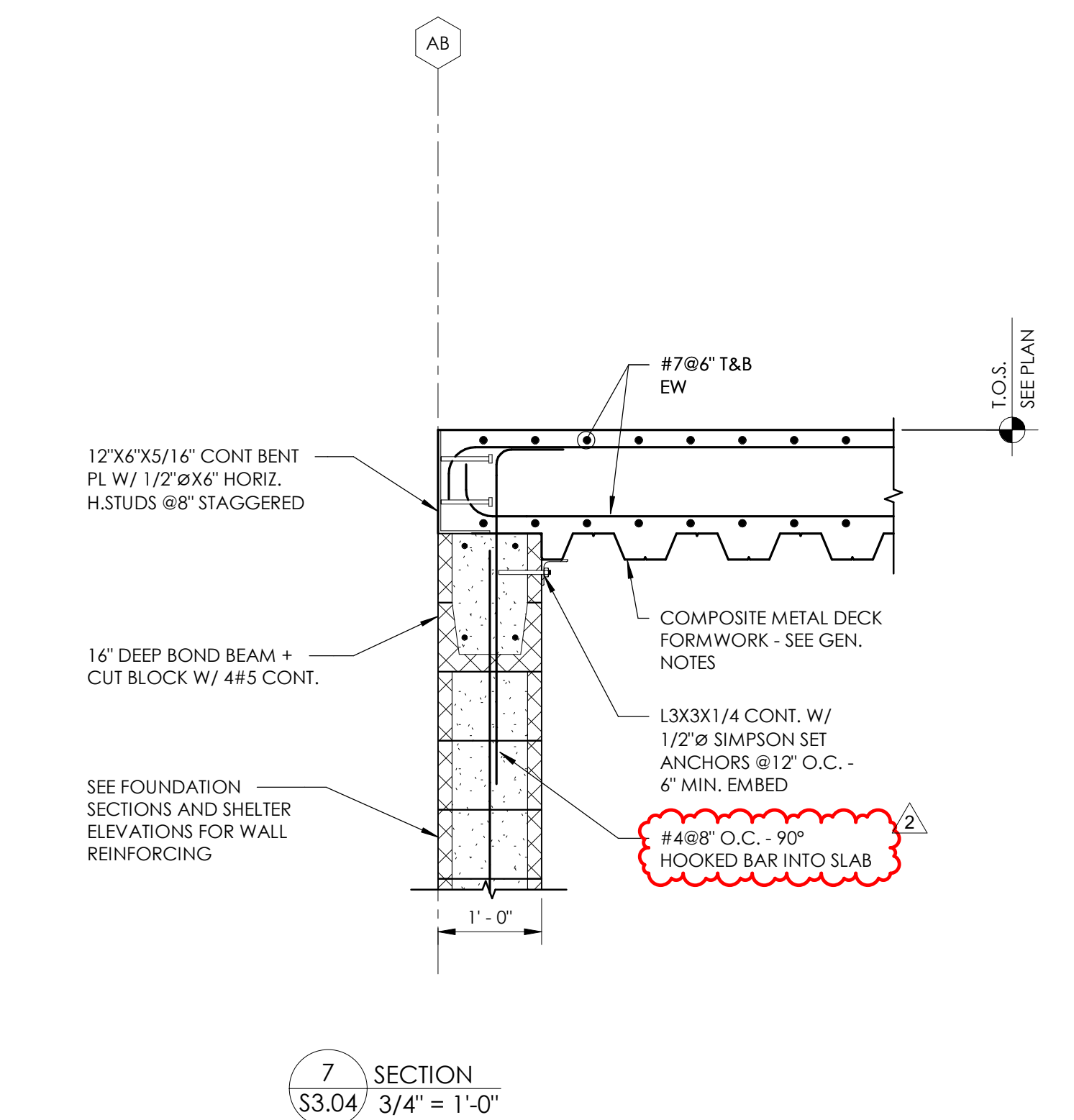
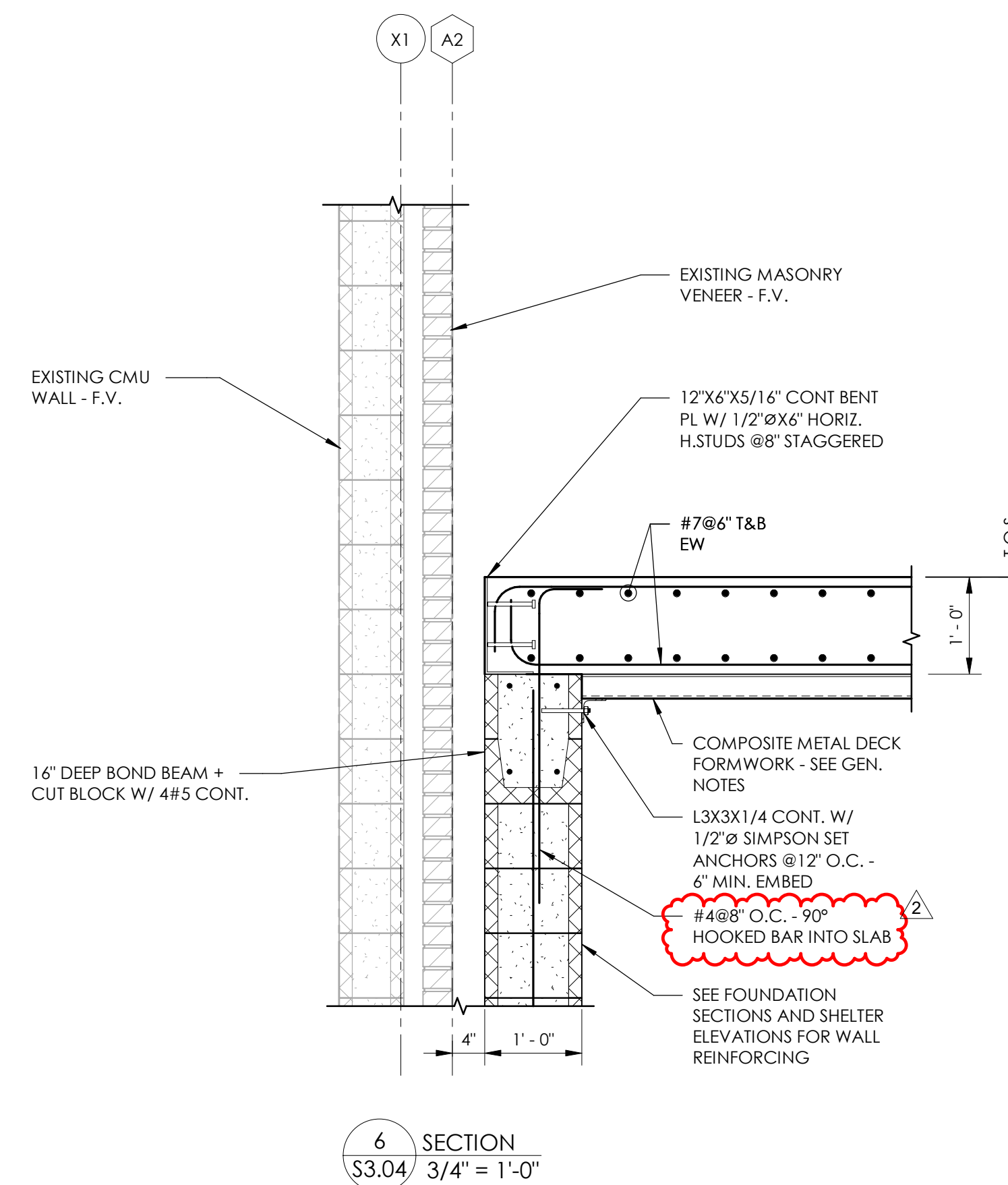
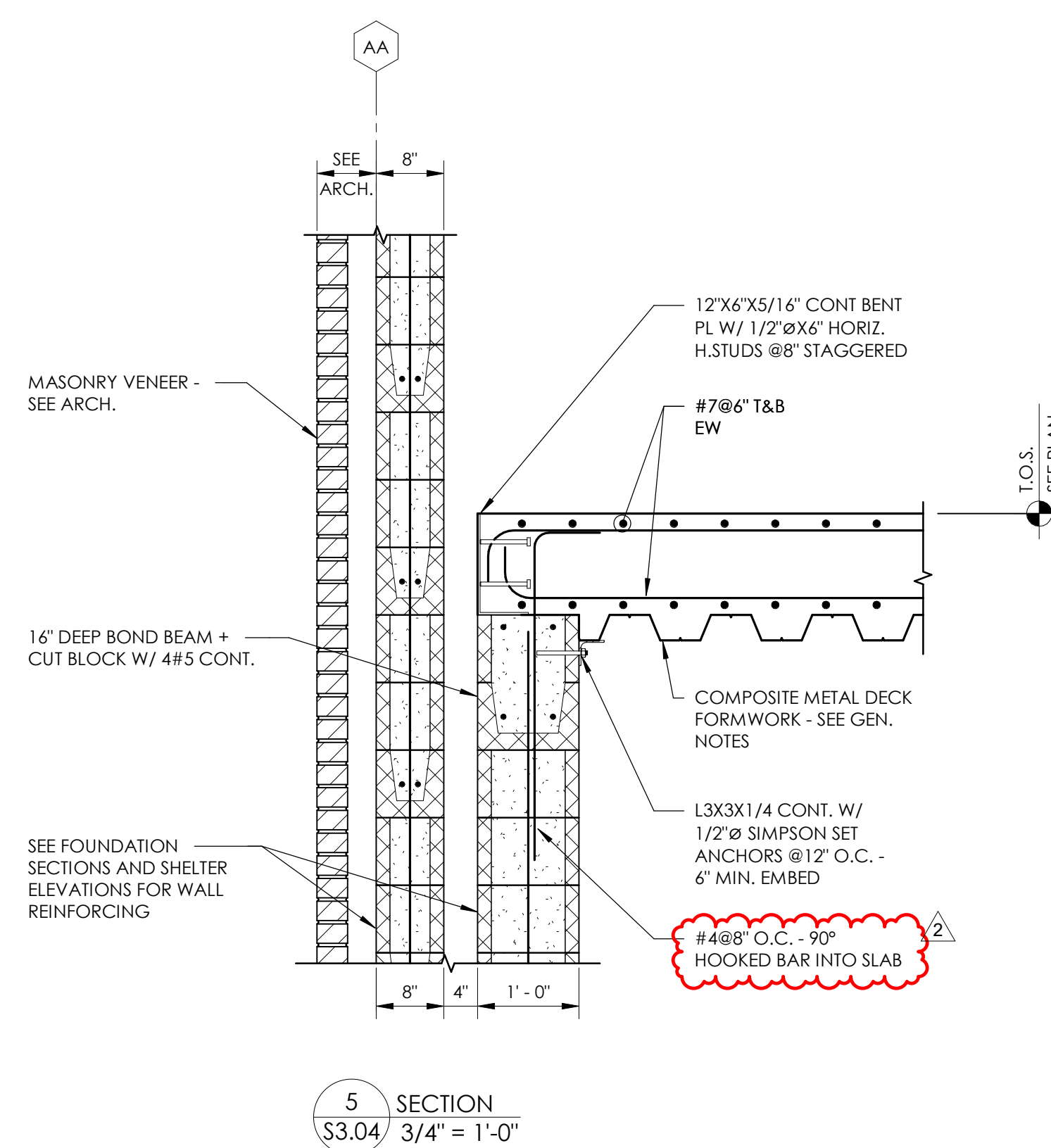
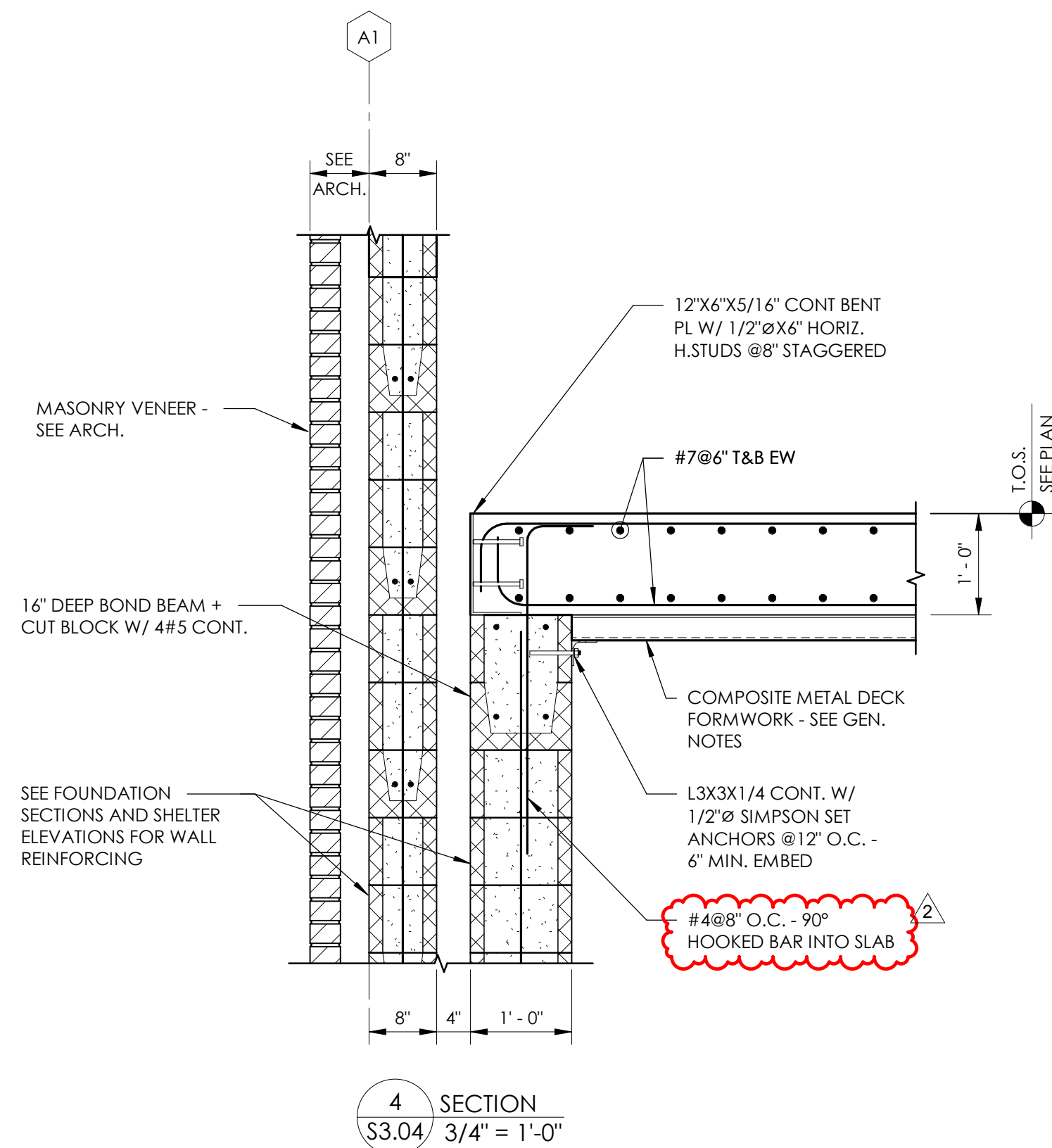
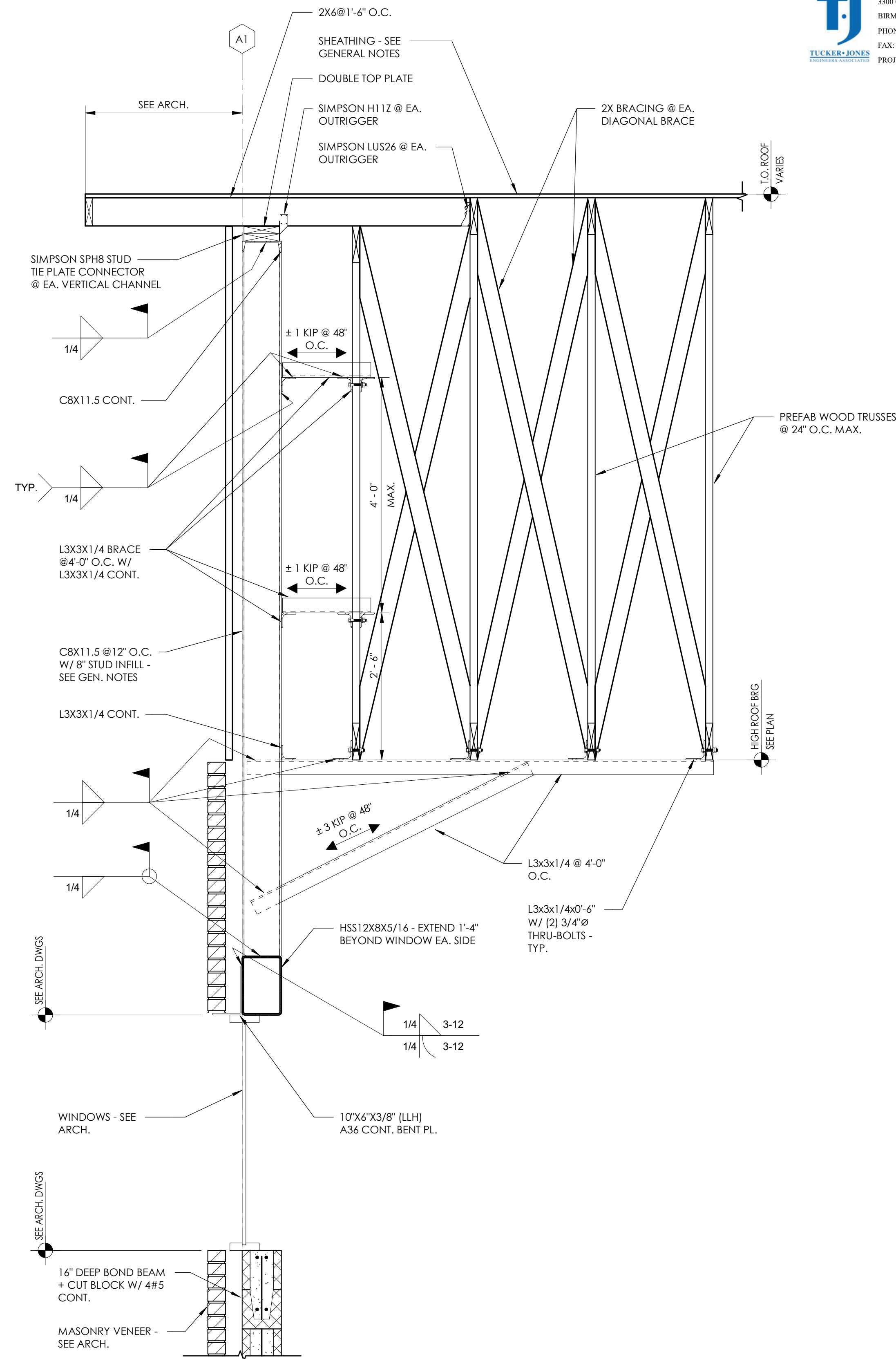
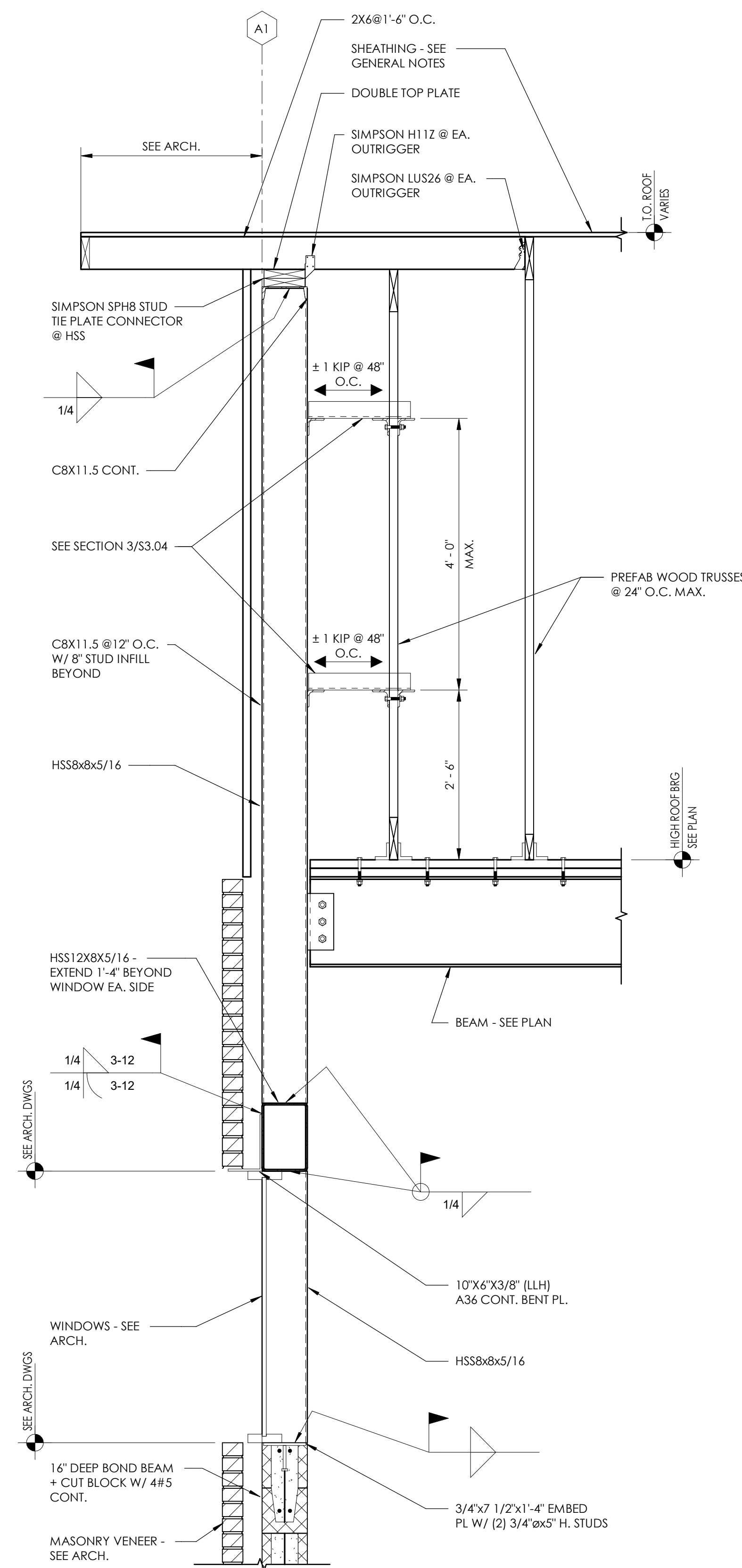
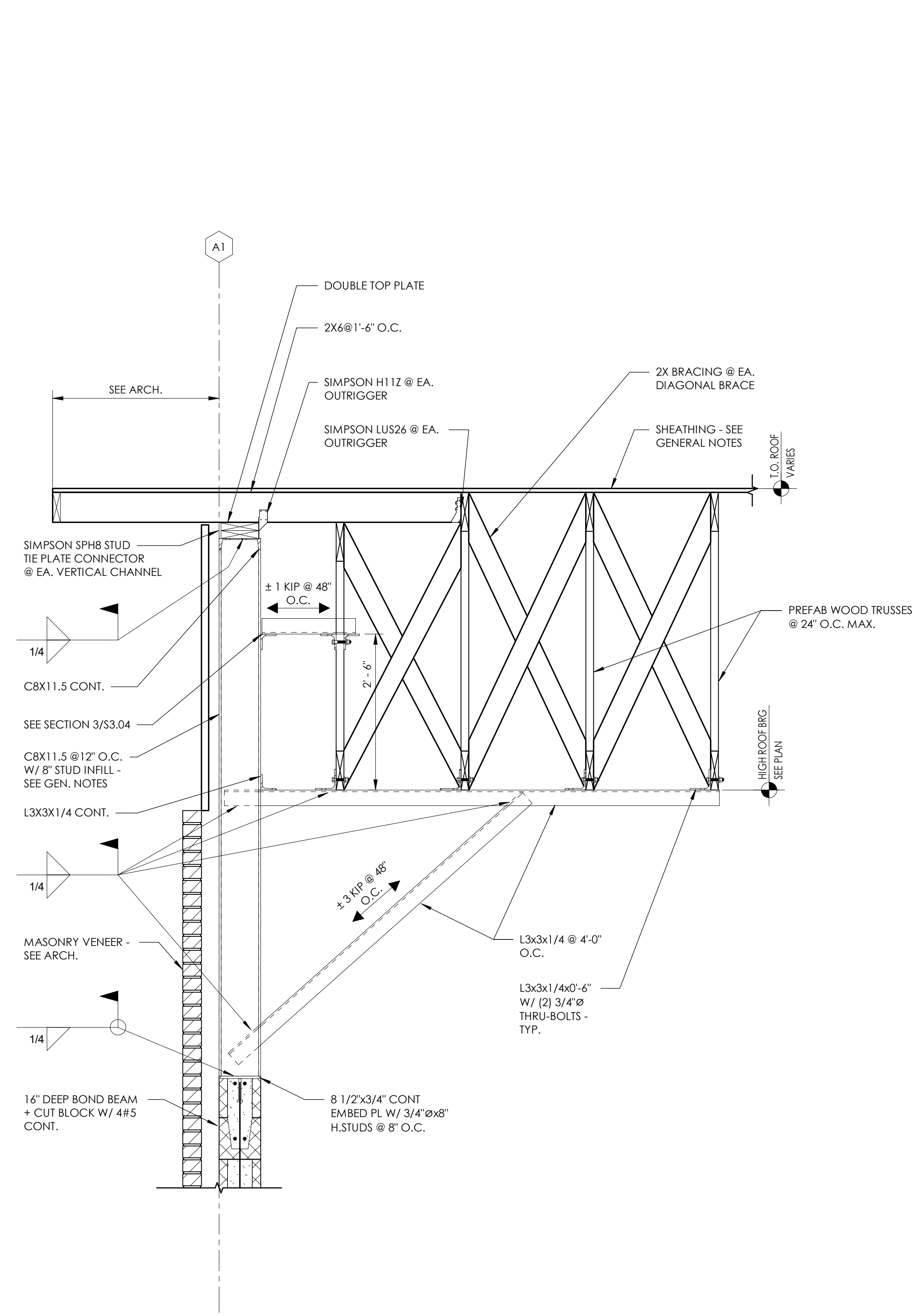


FLOOR AND FOUNDATION PLAN

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



1. FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.
2. TOP OF EXISTING FOOTING ELEVATION -1'-4" BELOW FINISH FLOOR, UNLESS NOTED - FIELD VERIFY.
3. TOP OF NEW FOOTING ELEVATION -1'-4" BELOW FINISH FLOOR, UNLESS NOTED.
4. 4" SLAB ON GRADE, UNLESS NOTED, SEE GENERAL NOTES AND TYPICAL DETAILS.
5. GENERAL CONTRACTOR COORDINATE LOCATION OF ALL FOOTING STEPS WITH CIVIL UTILITY AND PLUMBING DRAWINGS.
6. GENERAL CONTRACTOR COORDINATE FLOOR DEPRESSION DEPTH, SIZE AND LOCATION WITH ARCHITECTURAL DRAWINGS.
7. GENERAL CONTRACTOR COORDINATE LOCATION OF TILE JOINTS WITH CONTROL JOINTS.
8. GENERAL CONTRACTOR TO FIELD VERIFY THAT ALL EXISTING CONDITIONS AND DIMENSIONS ARE AS NOTED IN THE PLANS AND NOTIFY THE EOR IF EXISTING CONDITIONS DIFFER FROM WHAT IS INDICATED.
9. ■ DENOTES SHEAR WALL - SEE GENERAL NOTES, +/- 10 KIPS FOR TENSION AND COMPRESSION CHORDS. SHEAR WALL HOLD DOWNS DENOTED AS ■ - SEE TYPICAL DETAILS.
10. ■ DENOTES STORM SHELTER EXTENTS.



VESTAVIA HILLS FIRE STATION No. 4 EXPANSION

100% BID DOCUMENTS

JUNE 12, 2026

PROJECT NO: 25-080.00

DESIGN TEAM INFORMATION:

ARCHITECT:	WILLIAMS BLACKSTOCK ARCHITECTS 2204 1st AVENUE SOUTH, SUITE 200 BIRMINGHAM, AL 35233
MECHANICAL/ P / FP ENGINEER:	DEWBERRY ENGINEERS, INC. 2 RIVERCHASE OFFICE PLAZA, SUITE 205 BIRMINGHAM, AL 35244
ELECTRICAL ENGINEER:	GW ENGINEERING LLC Consultant Address Here Address Here
STRUCTURAL ENGINEER:	TUCKER-JONES ENGINEERS ASSOCIATED 3300 CAHABA ROAD, SUITE 210 BIRMINGHAM, AL 35223
CIVIL ENGINEER:	CAPRINE ENGINEERING, LLC 3 OFFICE PARK CIRCLE, SUITE 226 BIRMINGHAM, AL 35223



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ARCHITECT OF RECORD:

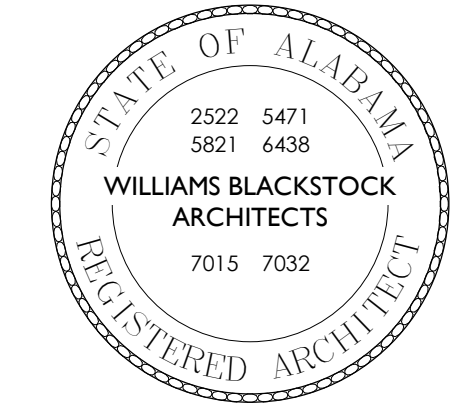
**WILLIAMS
BLACKSTOCK
ARCHITECTS**

2204 FIRST AVENUE SOUTH | SUITE 200
BIRMINGHAM, ALABAMA 35233

ARCHITECTURE . INTERIORS . PLANNING

ARCHITECTS PROJECT NO:

25-080.00



CONSULTANT INFORMATION:

PROJECT NAME:

**VESTAVIA HILLS FIRE
STATION No. 4
EXPANSION**

PROJECT ADDRESS:

**13041 LIBERTY PKWY, VESTAVIA
HILLS, AL 35242**

CLIENT NAME:

**THE CITY OF
VESTAVIA HILLS**

CLIENT PROJECT NO:

00-0000

ASU PROJECT NO:

PR 26-5

KEY PLAN:

ISSUE STATUS:

100% BID DOCUMENTS

ISSUE DATE:

JUNE 12, 2026

REVISIONS:

NO.	DATE	DESCRIPTION
1	08.12.2026	Addendum #2

DRAWING TITLE:

COVER

SHEET NUMBER:

G-000

STORM SHELTER REQUIREMENTS

per ICC 500, 2020

TYPE OF SHELTER:	TORNADO						
FLOOD ZONE REVIEW:	IT HAS BEEN DETERMINED THE BUILDING AND SITE RESIDE IN THE FLOOD ZONE "X". THIS ZONE "X" AREA IS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD ZONE.						
OCCUPANT LOAD: ICC 500 - SECTION 501	ICC 502.2 - DESIGN OCCUPANT CAPACITY. THE DESIGN OCCUPANT CAPACITY OF STORM SHELTER SHALL BE ASSIGNED OR CALCULATED IN ACCORDANCE WITH SECTION 502.2.1 OR 502.2.2 (ICC 502.2.1 - ASSIGNED. THE ASSIGNED DESIGN OCCUPANT CAPACITY SHALL BE BASED ON THE DESIGN OCCUPANT CAPACITY OF THE STORM SHELTER, AS DETERMINED BY THE DESIGNER AND THE OWNER OR THE OWNER'S AUTHORIZED AGENT, AND APPROVED BY THE AUTHORITY HAVING JURISDICTION. NOTE: THE NUMBER OF FIREFIGHTERS AND STAFF THAT WILL OCCUPY THE BUILDING WILL BE LESS THAN 25 PEOPLE WHICH HAS BEEN DETERMINED TO BE THE "DESIGN OCCUPANT CAPACITY" BY THE DESIGNER & OWNER IN ACCORDANCE WITH ICC 502.2.1. ASSIGNED DESIGN CAPACITY = 12 PEOPLE DESIGN OCCUPANT CAPACITY = 12 < 35 (CALCULATED CAPACITY); THEREFORE, O.K.						
WHEELCHAIR SPACES: 501.1.3	1 SPACE PER 200 OCCUPANTS = 1 WHEELCHAIR SPACES						
STORM SHELTER MIN. USABLE SQUARE FOOTAGE REQUIRED:	<table><tr><th>REQUIRED:</th><th>PROVIDED:</th></tr><tr><td>40 SF</td><td>171 SF</td></tr></table>	REQUIRED:	PROVIDED:	40 SF	171 SF		
REQUIRED:	PROVIDED:						
40 SF	171 SF						
TABLE 501.1.1	STORM SHELTER USABLE AREA "S-1" = 181 SF 181 sf - 10 sf for one wheelchair = 171 sf - Min. 1 wheelchair req. 171 sf / 5 sf per person = 34 people + 1 wheelchair = 35 people Storm Shelter Occupant Load = 35 people > 12 firefighters; therefore, O.K.						
501.1.2.1	NOTE: IN ACCORDANCE WITH ICC 502.2.1, THE ASSIGNED DESIGN OCCUPANCY OF THE STORM SHELTER IS 12 PEOPLE WHICH IS LESS THAN THE 35 PEOPLE AS CALCULATED ABOVE; THEREFORE, THE STORM SHELTER IS ADEQUATELY SIZED						
TORNADO WIND SPEED: FIGURE 304.2	250 MPH						
SIGNAGE REQUIREMENTS: SECTION 304	504.1.1 - AT EVERY ENTRANCE TO A STORM SHELTER, SIGNAGE INDICATING "TORNADO SHELTER," OR "HURRICANE SHELTER," OR APPROPRIATE SYMBOLS AS APPLICABLE, SHALL BE INSTALLED. THE SIGN SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF ICC A117.1. 504.1.2 - A SIGN DEPICTING THE GENERAL LOCATION OF STORM SHELTER AREAS AND ACCESSWAYS SHALL BE DISPLAYED IN ALL OF THE FOLLOWING LOCATIONS: • ADJACENT TO ACCESS DOORS ON THE INSIDE OF THE STORM SHELTER; • IN THE OFFICE OF THE FACILITY MANAGER, WHERE PROVIDED; AND • IN THE DESIGNATED SHELTER MANAGER'S AREA WITHIN THE STORM SHELTER, WHERE PROVIDED.						
FIRE SEPARATION: 601.1	FIRE BARRIERS AND HORIZONTAL ASSEMBLIES SEPARATING SPACES OR AREAS DESIGNATED AS STORM SHELTERS FROM OTHER BUILDING AREAS SHALL HAVE A MINIMUM FIRE-RESISTANCE RATING OF 2 HOURS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE.						
SANITATION FACILITIES: TABLE 703.3	SANITATION FACILITIES STORM SHELTER TYPE - COMMUNITY (<50 OCCUPANTS) <table><tr><th>TOILET FACILITIES</th><th>HAND WASHING FACILITIES</th></tr><tr><td>TOTAL REQUIRED: TOTAL PROVIDED:</td><td>TOTAL REQUIRED: TOTAL PROVIDED:</td></tr><tr><td>1 1</td><td>0 0</td></tr></table> 703.3.1 - WATER CLOSETS AND LAVATORIES SHALL BE EITHER PERMANENT PLUMBING FIXTURES INSTALLED WITHIN THE TORNADO SHELTER, OR TEMPORARY WATER CLOSETS OR LAVATORIES, SUCH AS CHEMICAL TOILETS OR OTHER MEANS APPROVED BY THE AUTHORITY HAVING JURISDICTION NOTE: A CHEMICAL TOILET IS BEING PROVIDED PER 703.3.1	TOILET FACILITIES	HAND WASHING FACILITIES	TOTAL REQUIRED: TOTAL PROVIDED:	TOTAL REQUIRED: TOTAL PROVIDED:	1 1	0 0
TOILET FACILITIES	HAND WASHING FACILITIES						
TOTAL REQUIRED: TOTAL PROVIDED:	TOTAL REQUIRED: TOTAL PROVIDED:						
1 1	0 0						
FIRST-AID KIT: SECTION 702.4	A FIRST AID KIT SHALL BE SUPPLIED IN ALL TORNADO SHELTERS WITH A SHELTER OCCUPANT LOAD OF GREATER THAN 50. NOTE: NOT REQUIRED BY CODE, BUT WILL BE FURNISHED BY FIRE DEPARTMENT.						
GENERAL NOTE: 1	ALL PENETRATIONS 2" OR GREATER MUST BE BAFFLED TO PREVENT INTRUSION OF DEBRIS DURING A STORM EVENT.						

STORM SHELTER USABLE AREA "S-1" = 181 SF

181 sf - 10 sf for one wheelchair = 171 sf - Min. 1 wheelchair req.
171 sf / 5 sf per person = 34 people + 1 wheelchair = 35 people
Storm Shelter Occupant Load = 39 people > 12 firefighters; therefore, O.K.

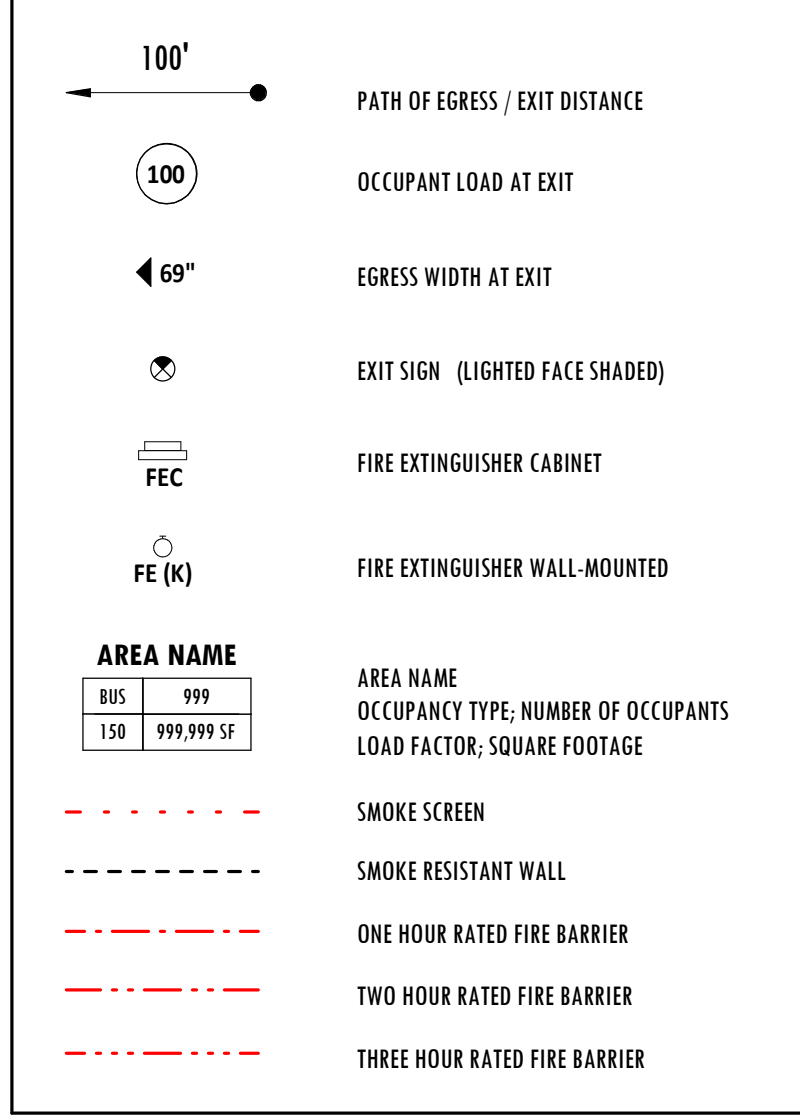
NOTE: IN ACCORDANCE WITH ICC 502.2.1, THE ASSIGNED DESIGN OCCUPANCY OF THE STORM SHELTER IS 12 PEOPLE WHICH IS LESS THAN THE 35 PEOPLE AS CALCULATED ABOVE; THEREFORE, THE STORM SHELTER IS ADEQUATELY SIZED

ASSIGNED DESIGN CAPACITY = 12 PEOPLE

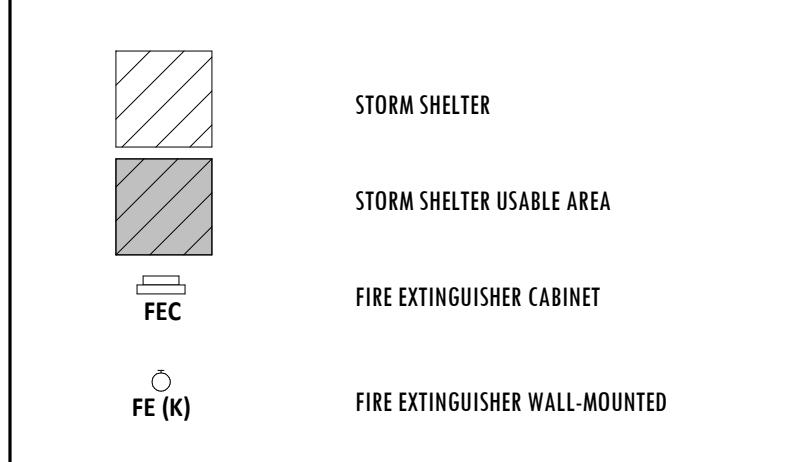
TEMPORARY CHEMICAL TOILET PER 703.3.1 - WATER CLOSETS AND LAVATORIES SHALL BE EITHER PERMANENT PLUMBING FIXTURES INSTALLED WITHIN THE TORNADO SHELTER, OR TEMPORARY WATER CLOSETS OR LAVATORIES, SUCH AS CHEMICAL TOILETS OR OTHER MEANS APPROVED BY THE AUTHORITY HAVING JURISDICTION

FIRST AID KIT

LIFE SAFETY LEGEND

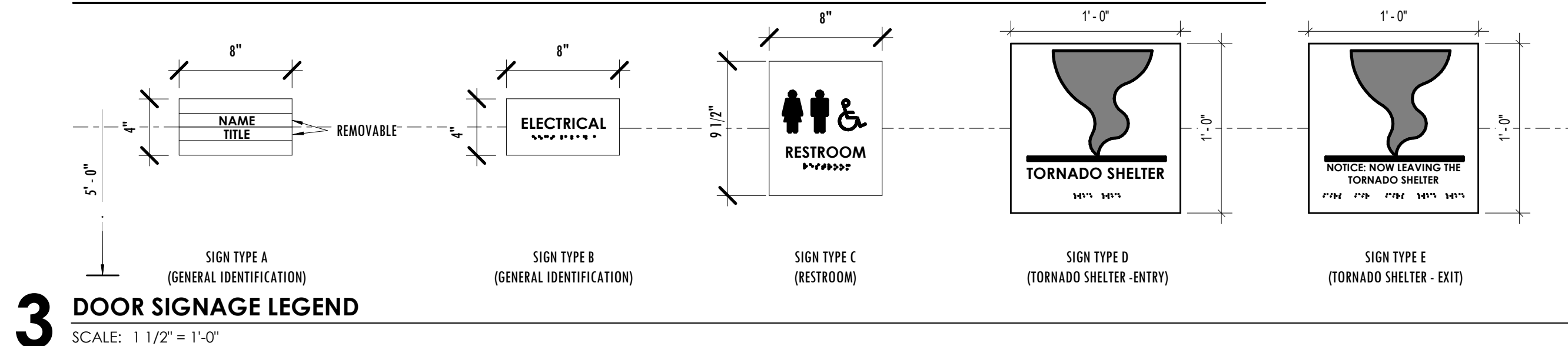


STORM SHELTER LEGEND



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

- NEW SIGNAGE SHALL COMPLY WITH ICC A117.1-2009
- NEW SIGNAGE SHALL COMPLY WITH ADA STANDARD 703
- TEXT SHOWN BELOW IS EXAMPLE. SIGNAGE TEXT SHALL BE COORDINATED WITH ROOM NAME.

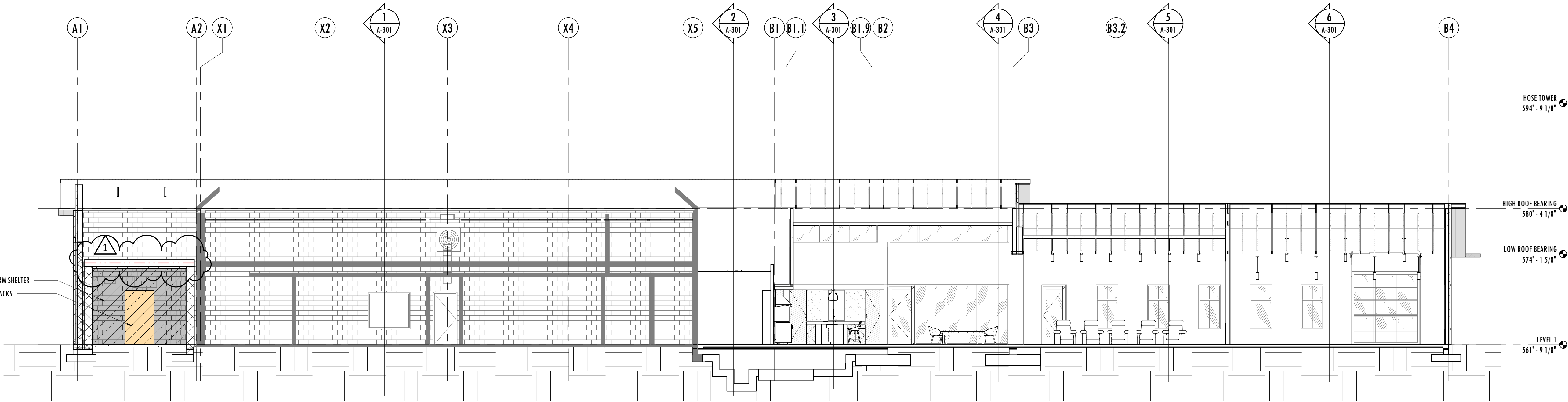


3 DOOR SIGNAGE LEGEND

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

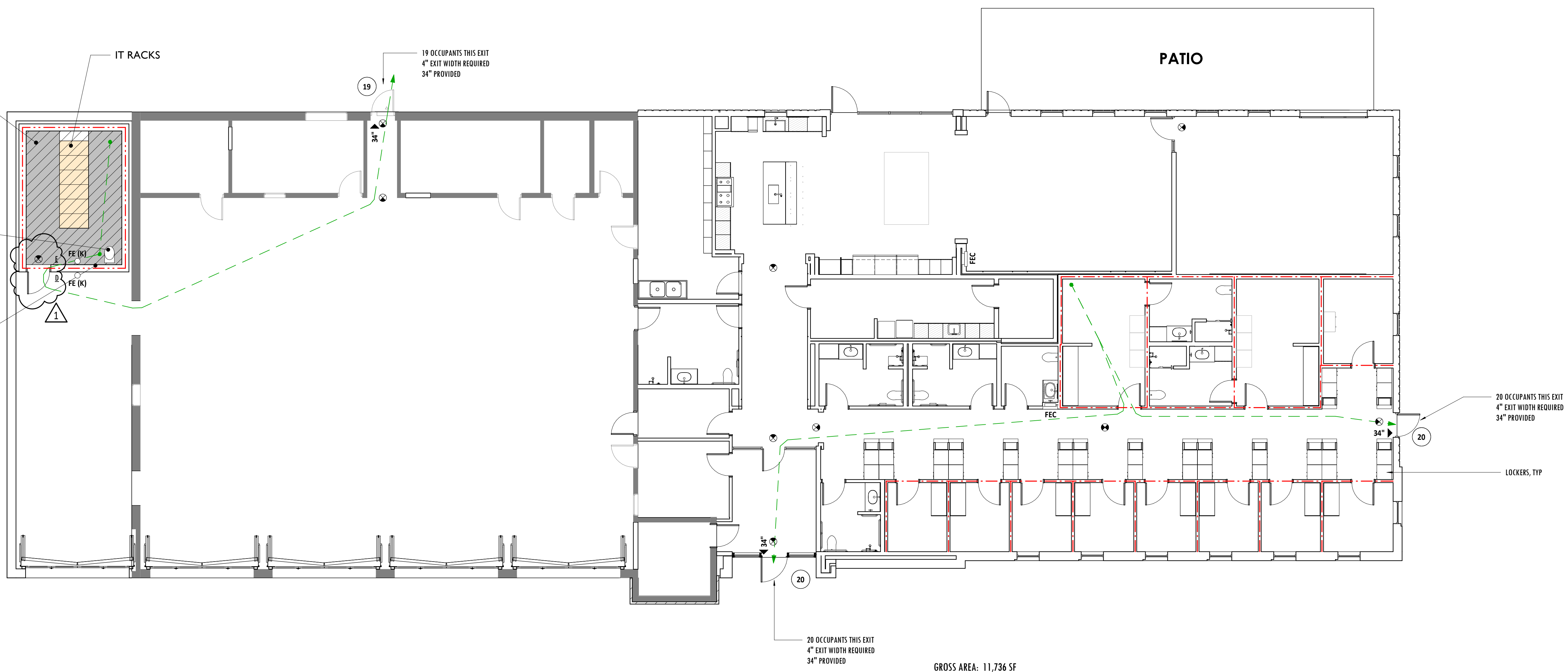
STORM SHELTER SIGNAGE (SECTION 508)

- PROVIDE A SIGN WITHIN THE STORM SHELTER WITH THE FOLLOWING INFO:
(A) DESIGN OCCUPANT CAPACITY
(B) STORM TYPE
(C) DESIGN WIND SPEEDS
(D) EDITION OF ICC 500 USED FOR DESIGN
(E) NAME OF BUILDING
- ENTRY SIGNAGE STATING "TORNADO SHELTER"
- PERIMETER SIGNAGE NOTICE "NOW LEAVING STORM SHELTER"



2 BUILDING SECTION

SCALE: 1/8" = 1'-0" REF: 1/A-101



1 STORM SHELTER FLOOR PLAN

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



ARCHITECT OF RECORD:

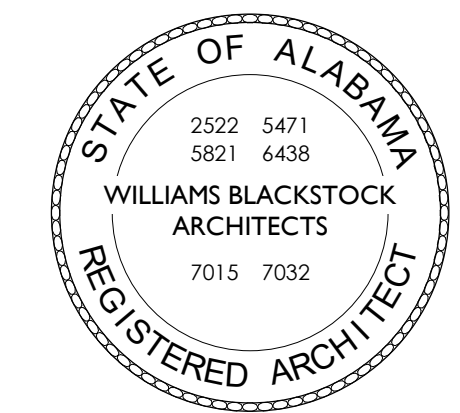
**WILLIAMS
BLACKSTOCK
ARCHITECTS**

2204 FIRST AVENUE SOUTH | SUITE 200
BIRMINGHAM, ALABAMA 35233

ARCHITECTURE . INTERIORS . PLANNING

ARCHITECTS PROJECT NO.:

25-080.00



CONSULTANT INFORMATION:

PROJECT NAME:

**VESTAVIA HILLS FIRE
STATION NO. 4
EXPANSION**

PROJECT ADDRESS:
**13041 LIBERTY PKWY, VESTAVIA
HILLS, AL 35242**

CLIENT NAME:

**THE CITY OF
VESTAVIA HILLS**

KEY PLAN:

ISSUE STATUS:

100% BID DOCUMENTS

ISSUE DATE:

JUNE 12, 2026

REVISIONS:

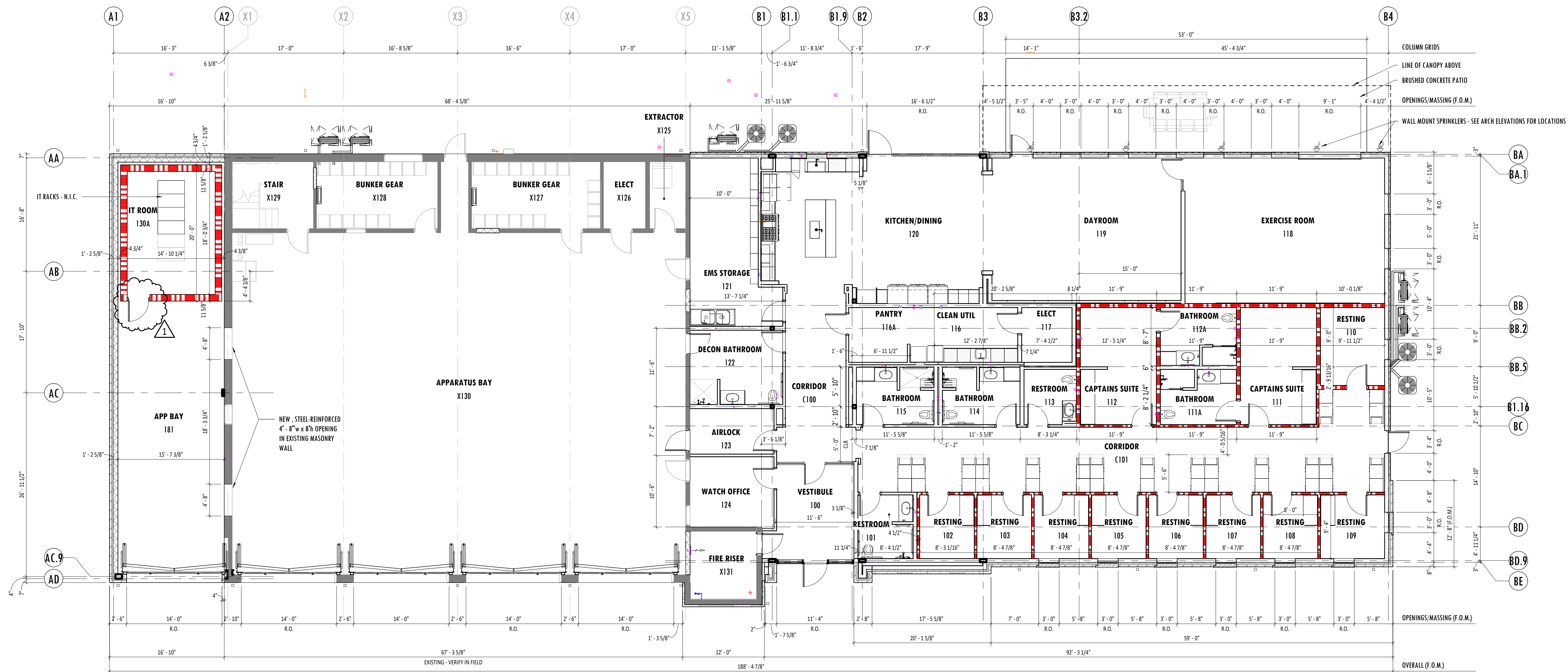
NO. DATE DESCRIPTION
1 08.12.2025 Addendum #2

DRAWING TITLE:

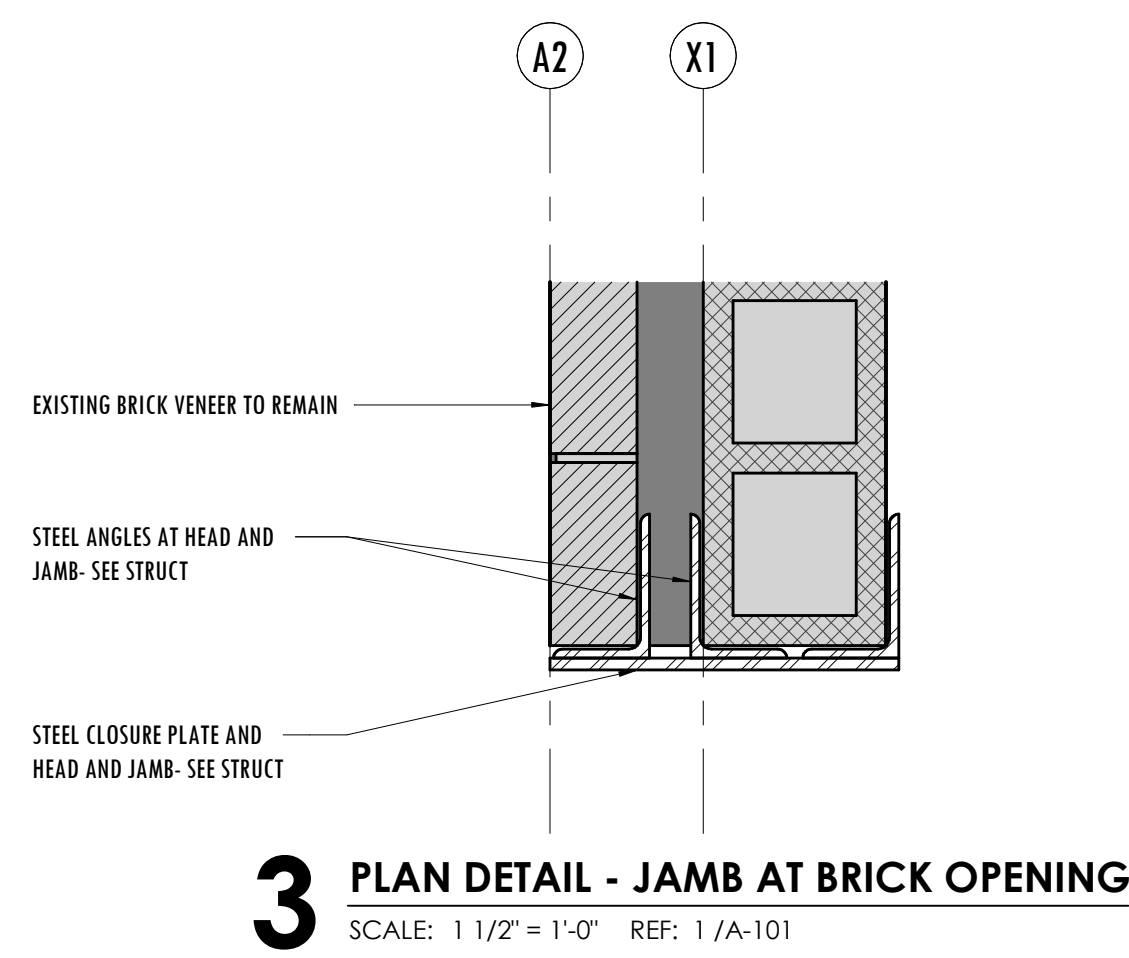
**STORM SHELTER
DESIGN INFO**

SHEET NUMBER:

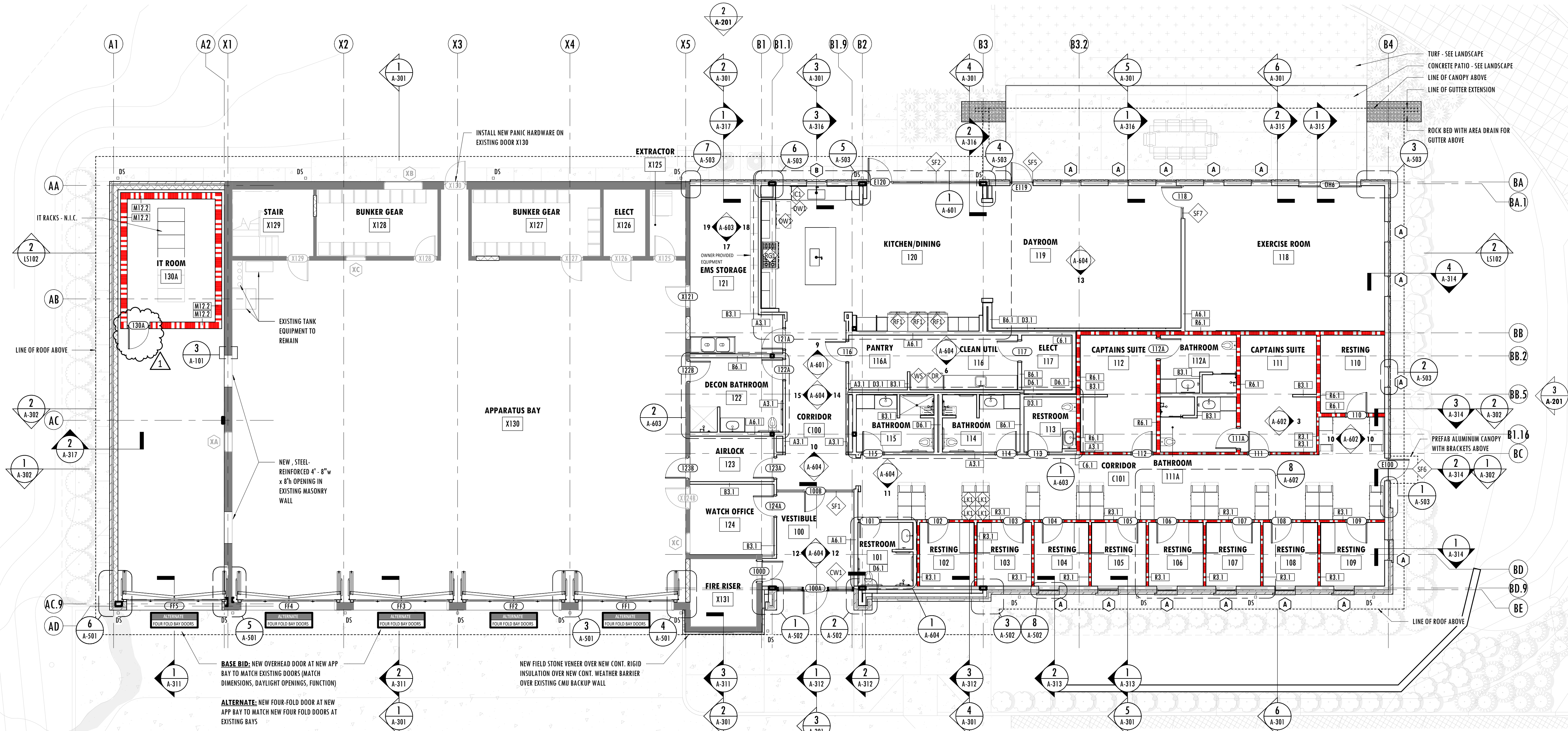
LS102



2 FLOOR PLAN - LEVEL 1 - DIMENSION
SCALE: 1/8" = 1'-0" REF: 1/11 X 17 P



3 PLAN DETAIL - JAMB AT BRICK OPENING
SCALE: 1 1/2" = 1'-0" REF: 1/A-101



1 FLOOR PLAN - LEVEL 1 - ANNOTATION
SCALE: 1/8" = 1'-0"

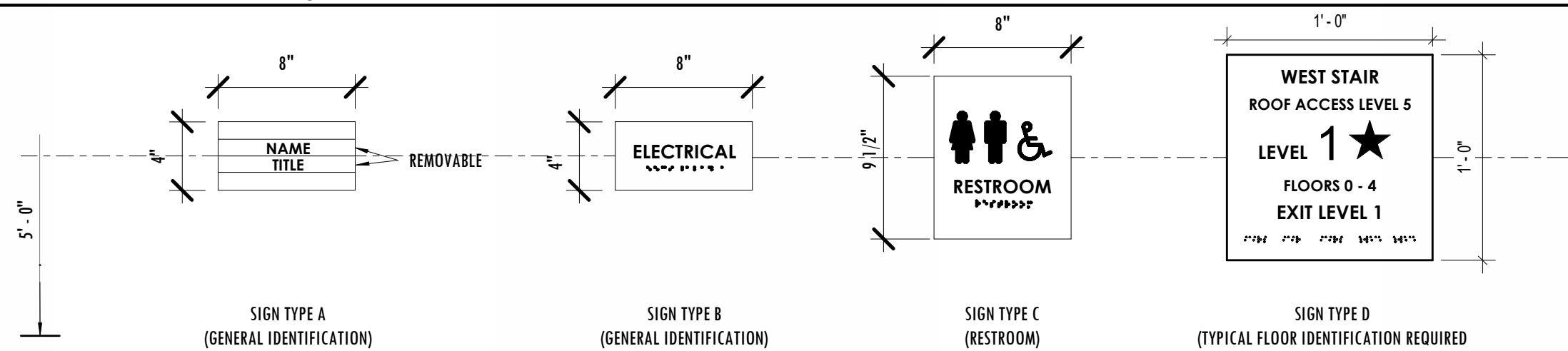
A-800 DOOR SCHEDULE													
DOOR NO.	TYPE	DOOR				FIRE RATING	HARDWARE	FRAME				COMMENTS	
		WIDTH	HEIGHT	MATERIAL	FINISH			TYPE	MATERIAL	FINISH	JAMB		HEAD
100A	FG	3'-7"	8'-0 1/2"	AL GL	ANODIZED		6	F2	AL	ANODIZED			CW1, KEYPAD ENTRY, PANIC HARDWARE
100B	FG	3'-0"	8'-0"	AL GL	ANODIZED		6	F2	AL	ANODIZED			SF1, VISION FILM APPLIED TO GLAZING, PANIC HARDWARE
100D	F	3'-0"	8'-0"	HM	PNT		10	F13	HM	PNT			
101	F	3'-0"	8'-0"	WD	STN		7	F1	HM	PNT			
102	F	3'-0"	8'-0"	WD	STN	20 MIN	2	F1	WD	PNT			
103	F	3'-0"	8'-0"	WD	STN	20 MIN	2	F1	WD	PNT			
104	F	3'-0"	8'-0"	WD	STN	20 MIN	2	F1	WD	PNT			
105	F	3'-0"	8'-0"	WD	STN	20 MIN	2	F1	WD	PNT			
106	F	3'-0"	8'-0"	WD	STN	20 MIN	2	F1	WD	PNT			
107	F	3'-0"	8'-0"	WD	STN	20 MIN	2	F1	WD	PNT			
108	F	3'-0"	8'-0"	WD	STN	20 MIN	2	F1	WD	PNT			
109	F	3'-0"	8'-0"	WD	STN	20 MIN	2	F1	WD	PNT			
110	F	3'-0"	8'-0"	WD	STN	20 MIN	2	F1	WD	PNT			
111	F	3'-0"	8'-0"	WD	STN	20 MIN	2	F1	WD	PNT			
111A	F	3'-0"	8'-0"	WD	STN	20 MIN	3	F1	WD	PNT			
112	F	3'-0"	8'-0"	WD	STN	20 MIN	2	F1	WD	PNT			
112A	F	3'-0"	8'-0"	WD	STN	20 MIN	3	F1	WD	PNT			
113	F	3'-0"	8'-0"	WD	STN		7	F1	WD	PNT			
114	F	3'-0"	8'-0"	WD	STN		7	F1	WD	PNT			
115	F	3'-0"	8'-0"	WD	STN		7	F1	WD	PNT			
116	F	3'-0"	8'-0"	HM	PNT		5	F1	HM	PNT			
117	F	3'-0"	8'-0"	HM	PNT		4	F1	HM	PNT			
118	FG	3'-0"	7'-4"	AL GL	ANODIZED		6	F2	AL	ANODIZED			SF7
121A	F	3'-0"	8'-0"	WD	STN		9	F1	WD	PNT			
122A	F	3'-0"	8'-0"	WD	STN		8	F1	WD	PNT			
122B	F	3'-0"	7'-0"	WD	STN		8	F13	HM	PNT			
123A	F	3'-0"	8'-0"	HM	PNT		1	F1	HM	PNT			
123B	F	3'-0"	7'-0"	HM	PNT		1	F13	HM	PNT			
124A	F	3'-0"	8'-0"	WD	STN		7	F1	WD	PNT			
130A	F	3'-0"	7'-0"	HM	PNT		4	F13	HM	PNT			
E100	FG	3'-0 3/4"	8'-0"	AL GL	ANODIZED	90 MIN	6	F2	AL	ANODIZED			STORM SHELTER, FEMA RATED ICC 500 COMPLIANT
E119	FG	3'-1"	8'-0"	AL GL	ANODIZED		6	F2	AL	ANODIZED			SF6, KEYPAD ENTRY, PANIC HARDWARE
E120	FG	3'-6"	8'-0"	AL GL	ANODIZED		6	F2	AL	ANODIZED			SF5, KEYPAD ENTRY
FF1	OH1	14'-0"	14'-0"	STL GL	PREFIN	SEE SPECS	4F	STL	PNT				SF2, KEYPAD ENTRY
FF2	OH1	14'-0"	14'-0"	STL GL	PREFIN	SEE SPECS	4F	STL	PNT				FOUR-FOLD SECTIONAL DOOR, BID ALTERNATE
FF3	OH1	14'-0"	14'-0"	STL GL	PREFIN	SEE SPECS	4F	STL	PNT				FOUR-FOLD SECTIONAL DOOR, BID ALTERNATE
FF4	OH1	14'-0"	14'-0"	STL GL	PREFIN	SEE SPECS	4F	STL	PNT				FOUR-FOLD SECTIONAL DOOR, BID ALTERNATE
FF5	OH1	14'-0"	14'-0"	STL GL	PREFIN	SEE SPECS	4F	STL	PNT				FOUR-FOLD SECTIONAL DOOR, BID ALTERNATE

NOTE: NEW PANIC HARDWARE TO BE INSTALLED ON EXISTING DOOR X130

SIGNAGE LEGEND

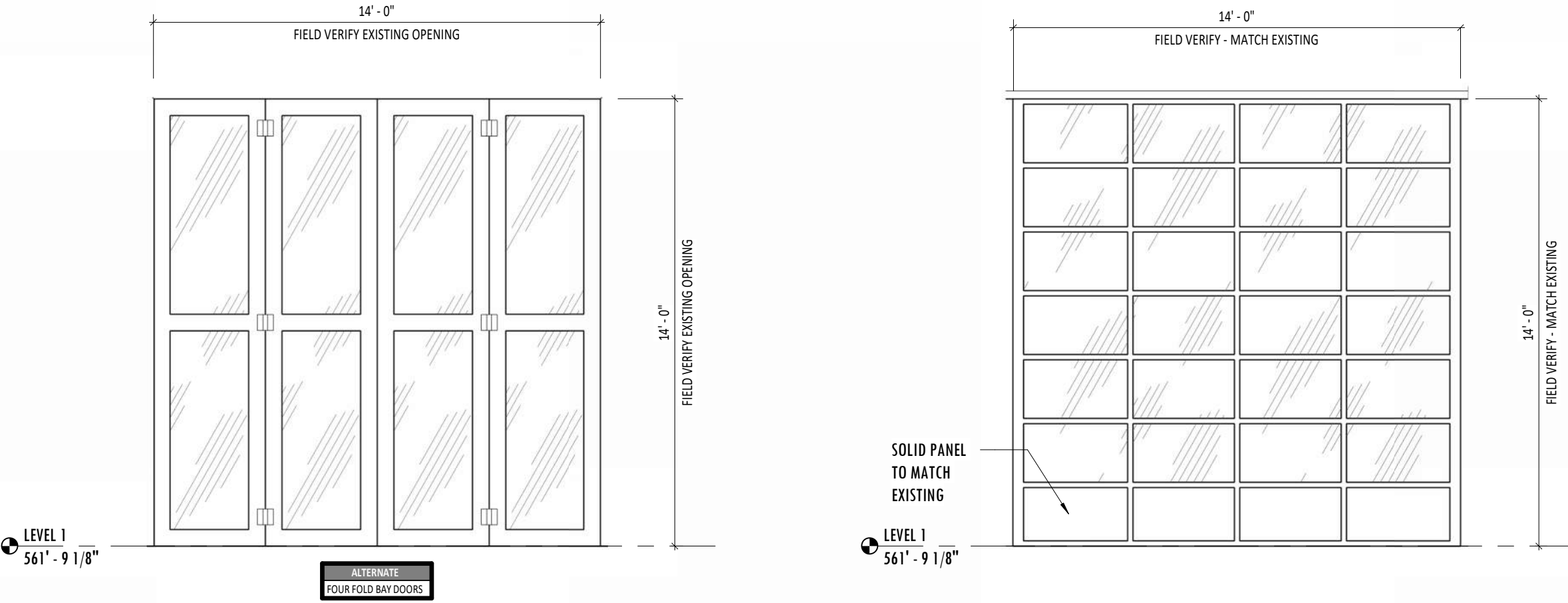
SCALE: 1'-0" = 1-1/2"

- NEW SIGNAGE SHALL COMPLY WITH ICC A117.1-2009
- NEW SIGNAGE SHALL COMPLY WITH ADA STANDARD 703
- TEXT SHOWN BELOW IS EXAMPLE. SIGNAGE TEXT SHALL BE COORDINATED WITH ROOM NAME.



7 DOOR SIGNAGE LEGEND

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



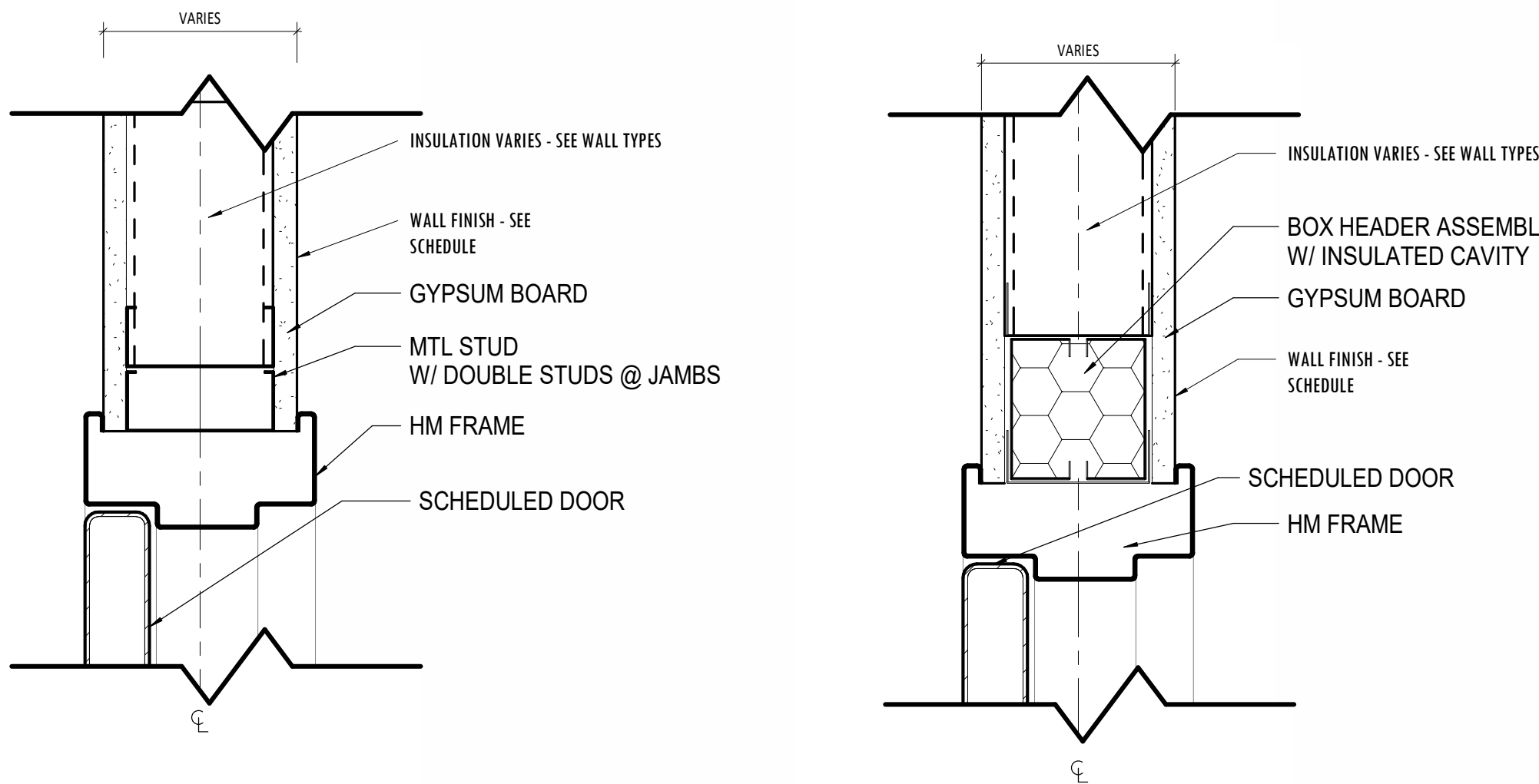
8 FF-X FOUR-FOLD DOOR ELEVATION - ALTERNATE

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

9 OH-5 OVERHEAD BAY DOOR ELEVATION - BASE BID

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

2 DOOR FRAME LEGEND

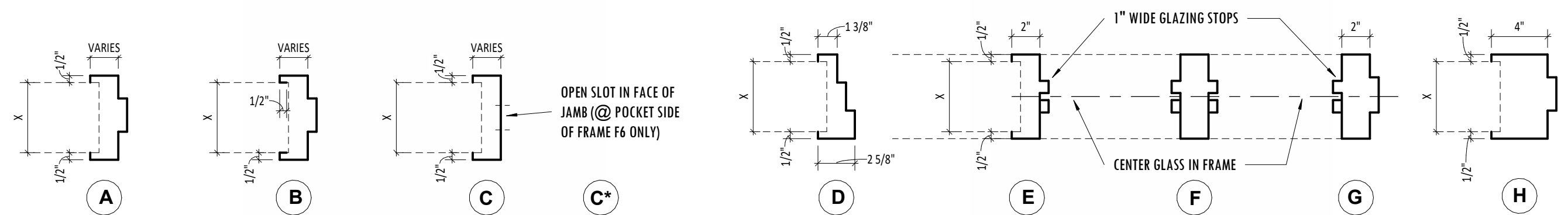


6 INT GYP DOOR JAMB

SCALE: 3" = 1'-0"

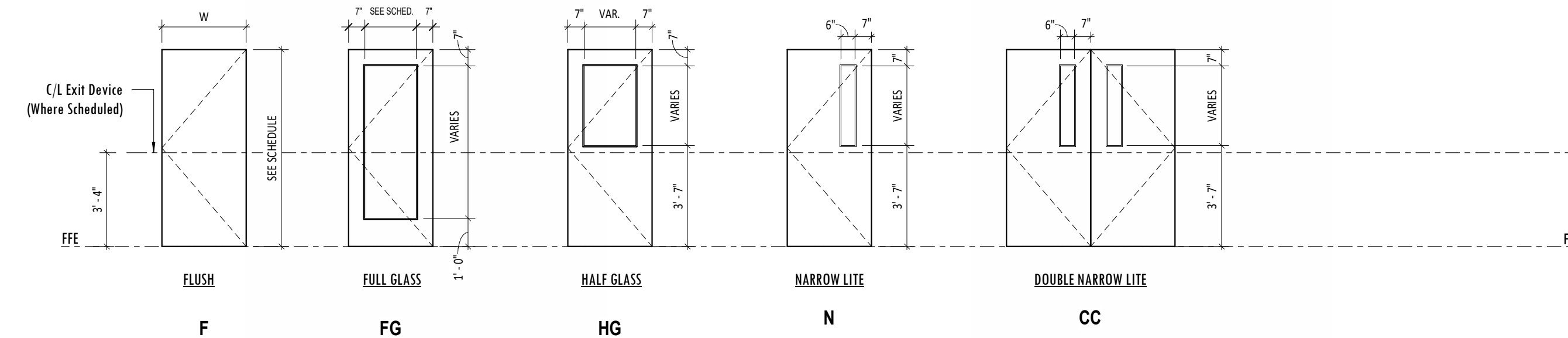
5 INT GYPSUM DOOR HEAD

SCALE: 3" = 1'-0"



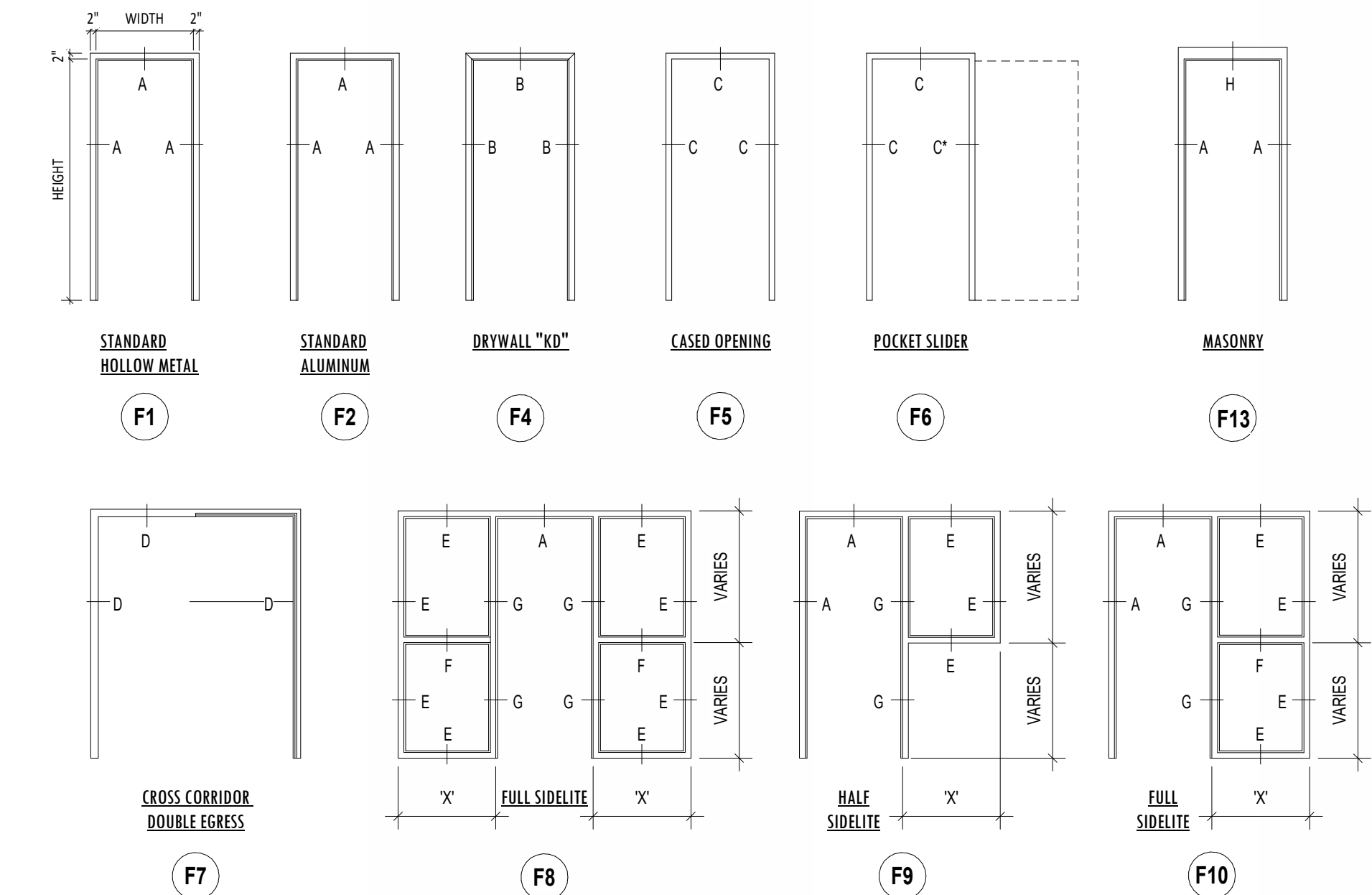
4 DOOR FRAME PROFILE LEGEND

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



3 DOOR TYPE LEGEND - WOOD & HM DOORS

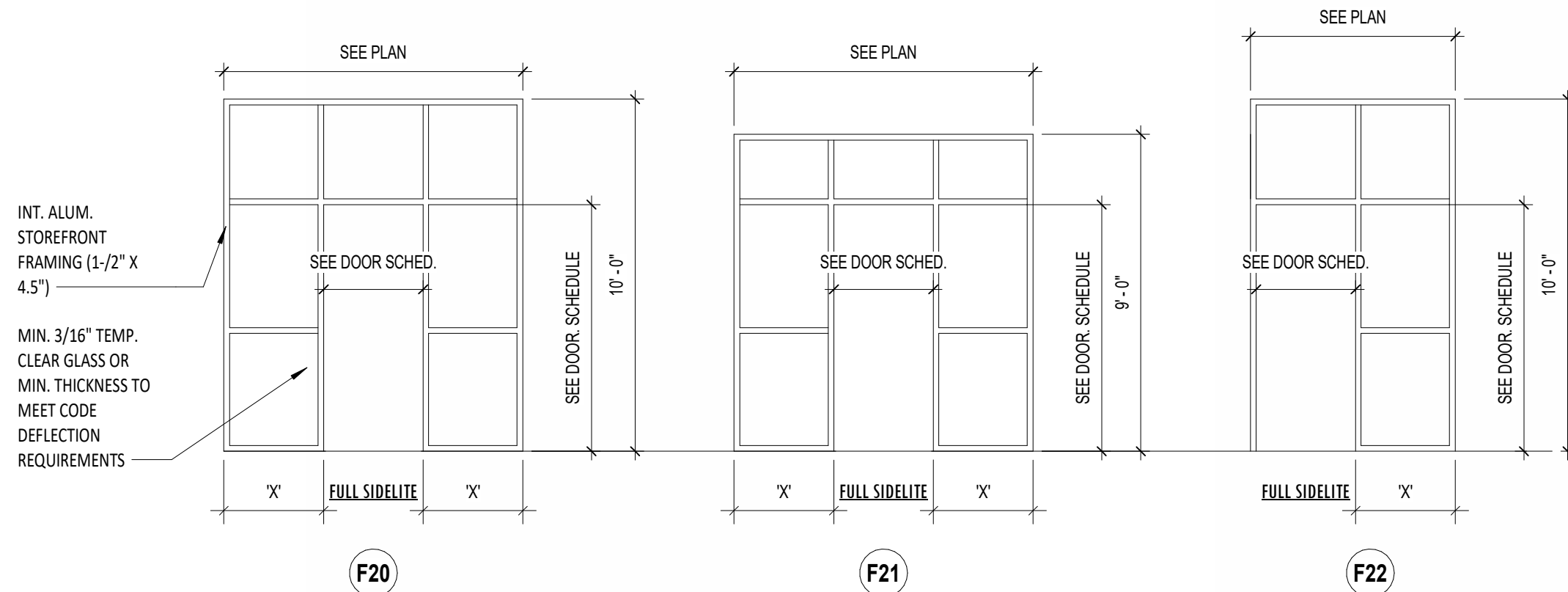
SCALE: 1/4" = 1'-0"



NOTE: ALL FRAMES TO BE SAE WELDED EXCEPT WHERE NOTED "KD"

2 DOOR FRAME LEGEND

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



1 DOOR FRAME LEGEND - INT. ALUM. STOREFRONT

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

ARCHITECT OF RECORD:

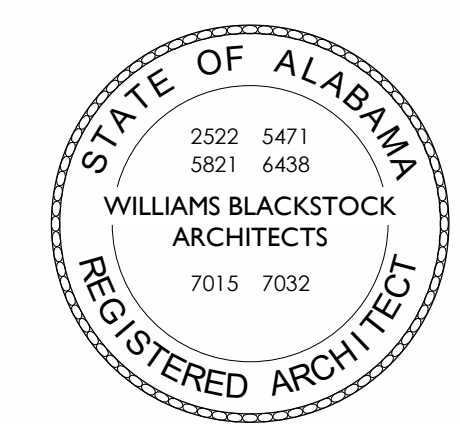
WILLIAMS
BLACKSTOCK
ARCHITECTS

2204 FIRST AVENUE SOUTH | SUITE 200
BIRMINGHAM, ALABAMA 35233

ARCHITECTURE . INTERIORS . PLANNING

ARCHITECTS PROJECT NO.

25-080.00



CONSULTANT INFORMATION:

PROJECT NAME:

VESTAVIA HILLS FIRE
STATION NO. 4
EXPANSION

PROJECT ADDRESS:

13041 LIBERTY PKWY, VESTAVIA
HILLS, AL 35242

CLIENT NAME:

THE CITY OF
VESTAVIA HILLS

KEY PLAN:

ISSUE STATUS:

100% BID DOCUMENTS

ISSUE DATE:

JUNE 12, 2026

REVISIONS:

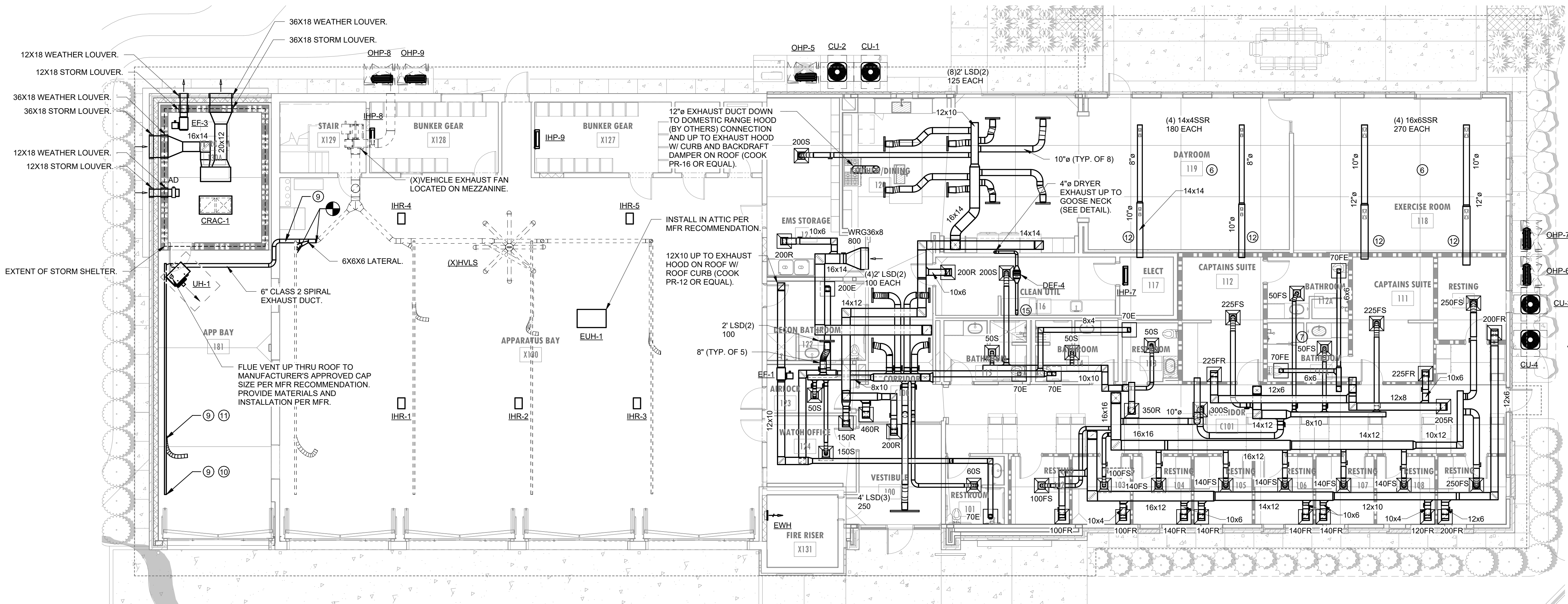
NO. DATE DESCRIPTION
1 08.12.2025 Addendum #2

DRAWING TITLE:

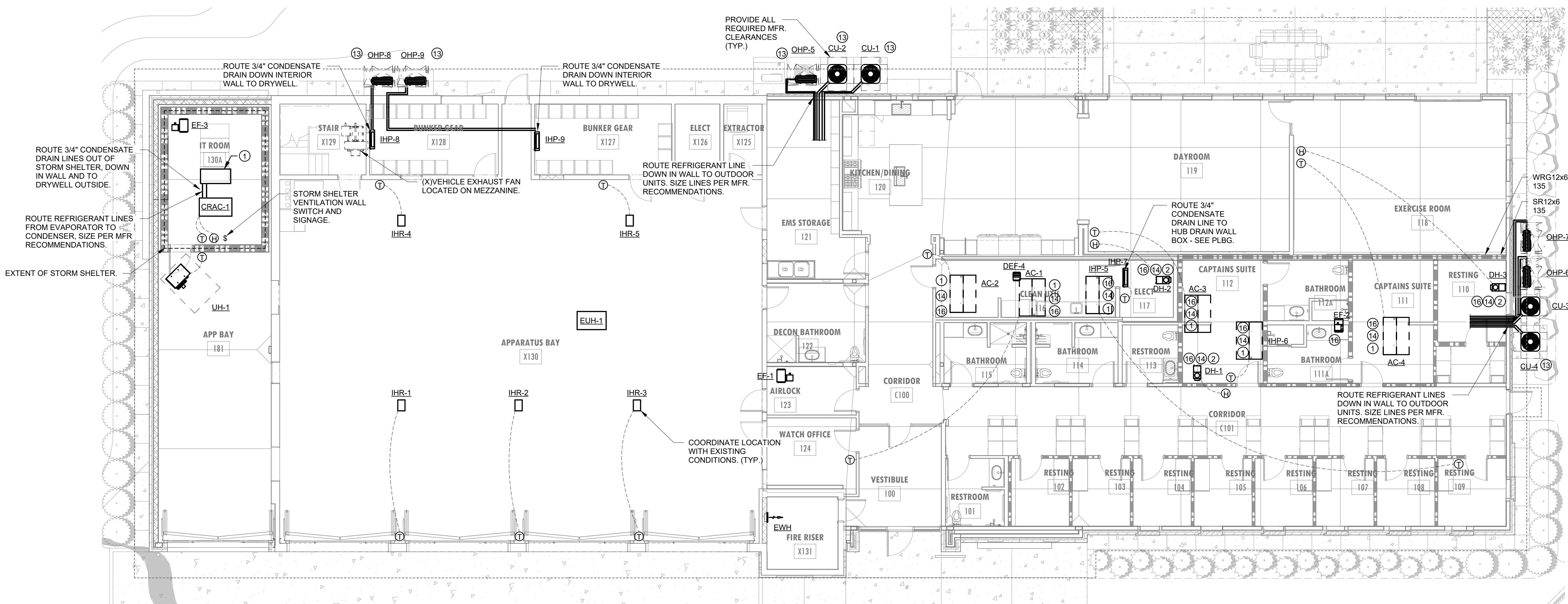
DOOR SCHEDULE

SHEET NUMBER:

A-803



1 MECHANICAL - FLOOR PLAN - NEW WORK
1/8" = 1'-0"
0 4 8 16 24'



2 MECHANICAL PIPING - FLOOR PLAN - NEW WORK
1/8" = 1'-0"
0 4 8 16 24'

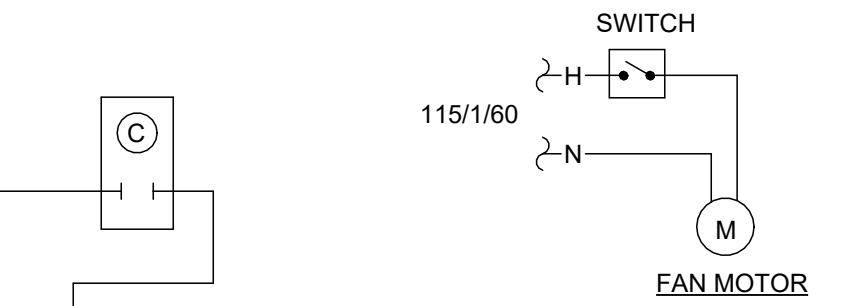
STORM SHELTER CALCULATIONS

MECHANICAL VENTILATION SHALL BE PROVIDED FOR THE STORM SHELTER. PER ICC-500-2020, CHAPTER 7, PART 702.4.2.
THE MECHANICAL VENTILATION SYSTEM CONSISTS OF USING A SUPPLY FAN TO PROVIDE OUTSIDE AIR AT A RATE THAT IS 5 CFM PER OCCUPANT.

STORM SHELTER GENERAL NOTES

- ALL PIPING AND DUCTWORK LOCATED WITHIN THE STORM SHELTER SHALL BE SUPPORTED WITH TRAPEZE HANGERS CONSISTING OF UNISTRUT WITH ALL-THREAD ROD. ALL THREAD SHALL BE ATTACHED TO THE STRUCTURE IN THE SHELTER.
- COORDINATE ALL PENETRATIONS OF SHELTER WALLS OR ROOF WITH GENERAL CONTRACTOR.
- DO NOT PENETRATE OR CUT BOND BEAMS. WEATHER LOUVERS SHALL BE INSTALLED IN BRICK. WEATHER LOUVERS SHALL HAVE DRAINABLE BLADE. WEATHER LOUVERS SHALL BE RUSKIN ELF6375DX OR APPROVED EQUAL.
- SHELTER LOUVERS SHALL BE INSTALLED IN THE SHELTER WALL. SHELTER LOUVERS SHALL BE GREENHECK MODEL AFL-501, RUSKIN XP600, OR APPROVED EQUAL. HIGH IMPACT LOUVERS SHALL MEET THE IMPACT TESTING CRITERIA FOR TORNADO SHELTERS PER ICC 500 / FEMA 361 AND SHALL BE LABELED THAT THEY HAVE BEEN TESTED TO MEET THAT REQUIREMENT.
- SIGNAGE FOR EMERGENCY VENTILATION FAN SWITCHES (REFER TO ARCHITECTURAL SIGNAGE SPECIFICATION FOR SIGN AND TEXT COLOR AND SIZE) (COORDINATED EXACT LOCATION WITH ARCHITECT) SIGNAGE TO SAY THE FOLLOWING:
"EMERGENCY VENTILATION FAN TO BE SWITCHED ON DURING A STORM EVENT."

VENTILATION AD, N.O.



EXHAUST FAN CONTROLLED BY SWITCH.

STORM SHELTER VENTILATION CONTROLS

NO SCALE

FAN CONTROL SEQUENCES:

EF-3: FAN SHALL RUN WHEN STORM SHELTER WALL SWITCH IS IN THE "ON" POSITION. INTAKE AUTOMATIC DAMPER SHALL OPEN WHEN EF-3 IS ENERGIZED. INTAKE AUTO DAMPER SHALL BE NORMALLY OPEN.

SHELTER OSA CALCULATIONS

Room	Rp cfm / P	Pz People	Voz cfm
STORM SHELTER 130A IT ROOM	12	60	
Total Required by EF-3:			60
Total Provided by EF-3:			160

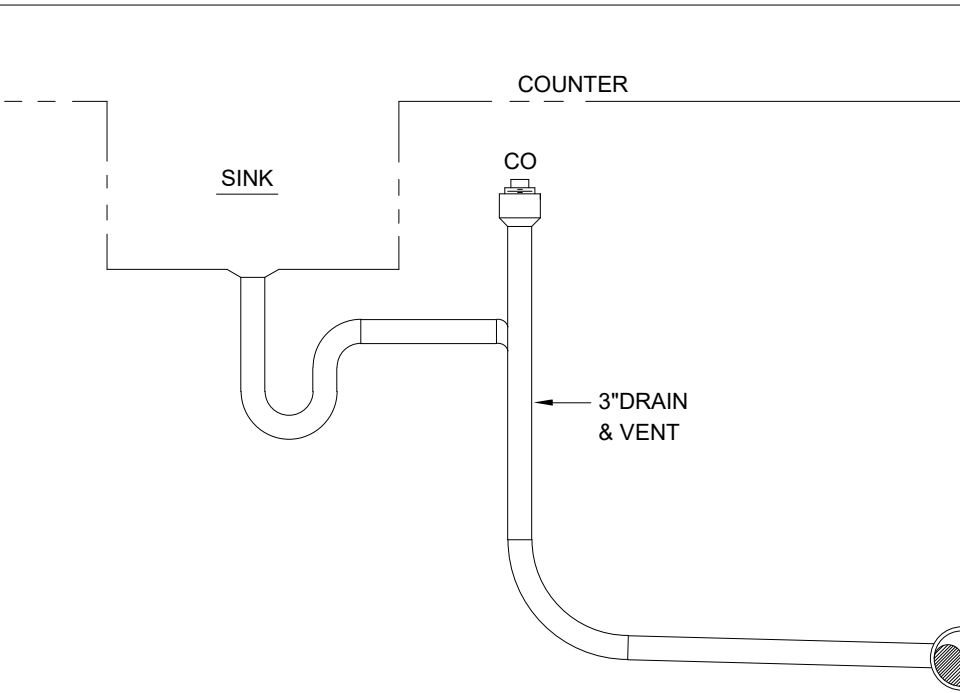
KEYED NOTES

- INSTALL UNIT ON NEOPRENE ISOLATION PADS. INSIDE AUXILIARY DRAIN PAN UNDER UNIT. PROVIDE FLOAT SWITCH INSIDE DRAIN PAN WIRED TO SHUT DOWN UNIT. DRAIN PAN SHALL BE 20 GA. GALVANIZED STEEL, SEALED WATER TIGHT, & 3" LARGER ON ALL SIDES. PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCTWORK CONNECTIONS. PROVIDE SERVICE CLEARANCES IN FRONT OF UNIT.
- INSTALL DEHUMIDIFIER INSIDE AUXILIARY DRAIN PAN W/ FLOAT SWITCH WIRED TO SHUT DOWN UNIT. AUXILIARY DRAIN PAN SHALL BE 20 GA GALVANIZED STEEL, SEALED WATERTIGHT, 3" LARGER THAN UNIT ON ALL SIDES. PROVIDE 1" DRAIN WITH TRAP AND ROUTE AS SHOWN.
- 3"ø FLUE AND 3"ø INTAKE UP TO CONCENTRIC VENT ON ROOF. SEE DETAIL.
- PROVIDE RESIDENTIAL STYLE UNDER COUNTER HOOD. 30" WIDE, BUILT-IN FAN, 190 CFM EXHAUST, INCANDESCENT LAMP, BACKDRAFT DAMPER, 7" ROUND DUCT CONNECTION. FLUSH MOUNTED CONTROLS. FULLY ENCLOSED FILTERS, UL LISTED. BROWN RM42000 OR APPROVED EQUAL. COLOR TO BE SELECTED BY ARCHITECT. CONNECT 8"ø TO HOOD AND ROUTE 8"ø TO EXHAUST HOOD ON ROOF. COOK PR-8 OR EQUAL.
- CARBON MONOXIDE SENSORS TO ALARM AT OCCUPIED STATION. TO BE PROVIDED BY ELECTRICAL. AND INSTALLED BY MECHANICAL. COORDINATE WITH ELECTRICAL. WIRING FROM SENSOR TO ALARM TO BE PROVIDED BY ELECTRICAL.
- EXPOSED DUCTWORK SHALL BE 2" DOUBLE WALL SPIRAL W/ PAINT GRIP FINISH.
- 8x8 UP TO EXHAUST HOOD ON ROOF. COOK PR-8 OR EQUAL W/ ROOF CURB AND BIRDSCREEN.
- 12X10 UP TO INTAKE HOOD ON ROOF. COOK PR-12 OR EQUAL W/ ROOF CURB. INSTALL MIN. OF 10" AWAY FROM ALL EXHAUST HOODS. CONCENTRIC VENTS, DRYER EXHAUST GOOSENECK AND PLUMBING VENTS.
- NEW VEHICLE EXHAUST SYSTEM TO BE AN EXPANSION OF THE EXISTING MAGNEGRIP VEHICLE EXHAUST RAIL SYSTEM. ALL VEHICLE EXHAUST RAIL SYSTEM EQUIPMENT AND DUCTWORK TO BE SUPPLIED AND INSTALLED BY MAGNEGRIP. ALL ELECTRICAL WORK SHALL FALL UNDER THE SCOPE OF THE PROJECT ELECTRICIAN. ALL WALL OR ROOF PENETRATIONS AND SEALINGS ARE AT THE CUSTOMERS OR CONTRACTOR'S EXPENSE AND NOT THE RESPONSIBILITY OF MAGNEGRIP. CONTACT DAVID SAPP AT MAGNEGRIP FOR PRICING. DSAPP@MAGNEGRIP.COM.
- 30" EXHAUST RAIL W/ TAILPIPE HOSE DROP. RAIL SHALL EXTEND LENGTH OF BAY. HOSE SHALL BE SIZED FOR APPROXIMATELY 600 CFM.
- VEHICLE EXHAUST DROP: 5" HIGH-TEMP UPPER HOSE, 1050 DEG. F 2" LOWER HOSE SECTION W/ HANDLE, AND TAILPIPE ADAPTOR NOZZLE.
- ROUTE DUCT IN TRUSS SPACE.
- MOUNT ON 4" CONCRETE PAD.
- ROUTE CONDENSATE LINE TO NEAREST HUB DRAIN (SEE PLMB).
- 4" DRYER EXHAUST DUCT DOWN TO DRYER CONNECTION. TAPE ALL JOINTS.
- UNIT LOCATED ON MECHANICAL PLATFORM - SEE ARCH AND STRUCTURAL.

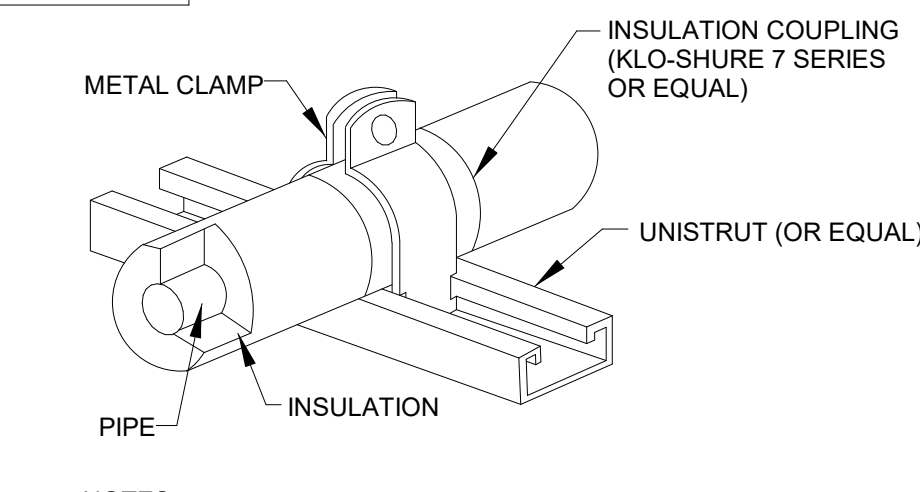
- GENERAL NOTES**
- LOCATIONS OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE. VERIFY WITH LOCAL UTILITY PRIOR TO BIDDING.
 - CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE, AND ELEVATION OF ALL EXISTING SERVICES PRIOR TO INSTALLING ANY NEW PIPE.
 - ALL OUTSIDE CLEANOUTS SHALL BE BROUGHT TO GRADE AND EMBEDDED IN 18"x18"x6" THICK CONCRETE PAD (J.R. SMITH 4258 OR EQUAL).
 - WHEREVER DISSIMILAR METALS ARE CONNECTED ON WATER LINES, A DIELECTRIC UNION SHALL BE USED.
 - ALL HORIZONTAL WATER AND VENT PIPING SHALL BE RUN ABOVE CEILING ON PLAN WHERE SHOWN UNLESS OTHERWISE NOTED.
 - ALL HORIZONTAL SANITARY PIPING IS RUN BELOW FLOOR ON PLAN WHERE SHOWN UNLESS OTHERWISE NOTED.
 - ALL WATER PIPING BELOW SLAB ON GRADE SHALL BE BENT UP AT ENDS SO THAT NO JOINTS OCCUR BELOW FLOOR.
 - ALL WALL HYDRANTS AND HOSE BIBBS SHALL BE MOUNTED 24" ABOVE FINISH GRADE OF FINISH FLOOR UNLESS OTHERWISE NOTED.
 - ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE EXTERIOR WALL INSULATION.
 - NO VENT THRU ROOF IS TO BE LOCATED WITHIN 10 FEET OF ANY BUILDING AIR INTAKES, PER CODE. COORDINATE WITH MECHANICAL AND GENERAL CONTRACTORS.
 - DOMESTIC WATER PIPING AND FIRE PROTECTION PIPING LOCATED ABOVE THE CEILING, SHALL BE INSTALLED BELOW CEILING INSULATION.
 - CONTRACTOR SHALL COORDINATE MECHANICAL FLOOR DRAIN LOCATIONS WITH MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL PROVIDE SHOCK ARRESTORS ON ALL BRANCH LINES.
 - CONTRACTOR SHALL COORDINATE ALL SINKS WITH CASEWORK PRIOR TO ORDERING SINKS.
 - DOMESTIC WATER PIPING SHALL NOT BE INSTALLED IN EXTERIOR WALLS.
 - DISINFECTION OF WATER PIPING SYSTEM WITH CHLORINE SOLUTION AS PER CODE.
 - INSTALLATION OF BACKFLOW PREVENTER SHALL COMPLY WITH CURRENT INTERNATIONAL BUILDING CODE AND CURRENT INTERNATIONAL PLUMBING CODE.
 - ALL OVERHEAD WATER PIPING TO BE RUN BELOW INSULATION AT BOTTOM OF TRUSSES FOR FREEZE PROTECTION.
 - ALL WALL HYDRANTS TO BE FREEZE PROOF AND TO HAVE VACUUM BREAKERS.
 - INSULATION ON ALL PIPING SHALL MEET SMOKE/ FLAME RATING OF 25 & 50.
 - THE LOCATION OF LAVATORIES AND WATER CLOSETS RELATIVE TO THE FINISHED WALL IS CRITICAL. REFER TO ARCHITECTURAL AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - WATER HAMMER ARRESTORS ARE REQUIRED TO PROTECT WATER PIPING SYSTEMS WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
 - THESE DRAWINGS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE PROJECT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
 - COORDINATE PLUMBING PIPING WITH STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE PROJECT.
 - COORDINATE ALL PLUMBING IN SLAB WITH BUILDING FOOTINGS.
 - NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS. MAINTAIN ALL REQUIRED CLEARANCES.
 - CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE SUBMITTING A PRICE. ORDERING MATERIALS OR PERFORMING ANY WORK, NOTIFY THE ARCHITECT OF ANY DEVIATION FROM PLUMBING PLAN.
 - SUPPORT PIPE AS REQUIRED BY THE CURRENT INTERNATIONAL PLUMBING CODE.
 - ALL FOOTINGS AT PLUMBING CHASE WALLS SHALL BE MIN 24" BELOW FINISHED GRADE TO COORDINATE WITH WASTE PIPING IN SLAB.
 - FIRESTOP ALL RATED WALL AND FLOOR PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATED WALL AND FLOOR LOCATIONS.
 - OFFSET ALL VTR'S TO BACKSIDE OF ROOF RIDGE.
 - DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED (EVEN IF FINAL CONNECTION IS SPECIFIED UNDER ANOTHER SECTION).

PLUMBING LEGEND

SOIL OR WASTE LINE	P-#	PLUMBING FIXTURE NUMBER
VENT LINE	AFF	ABOVE FINISH FLOOR
COLD WATER LINE	CO	CLEAN OUT
HOT WATER LINE	ABV	ABOVE
HOT WATER RETURN LINE	WS	WASTE STACK
BALL VALVE	BFF	BELOW FINISH FLOOR
UNION	VSTR	VENT STACK THRU ROOF
PIPE TURNING UP	TMV	THERMOSTATIC MIXING VALVE
PIPE TURNING DOWN		PRESSURE REDUCING VALVE
GAS PIPING		GAS COCK
GREASE WASTE		GAS REGULATOR

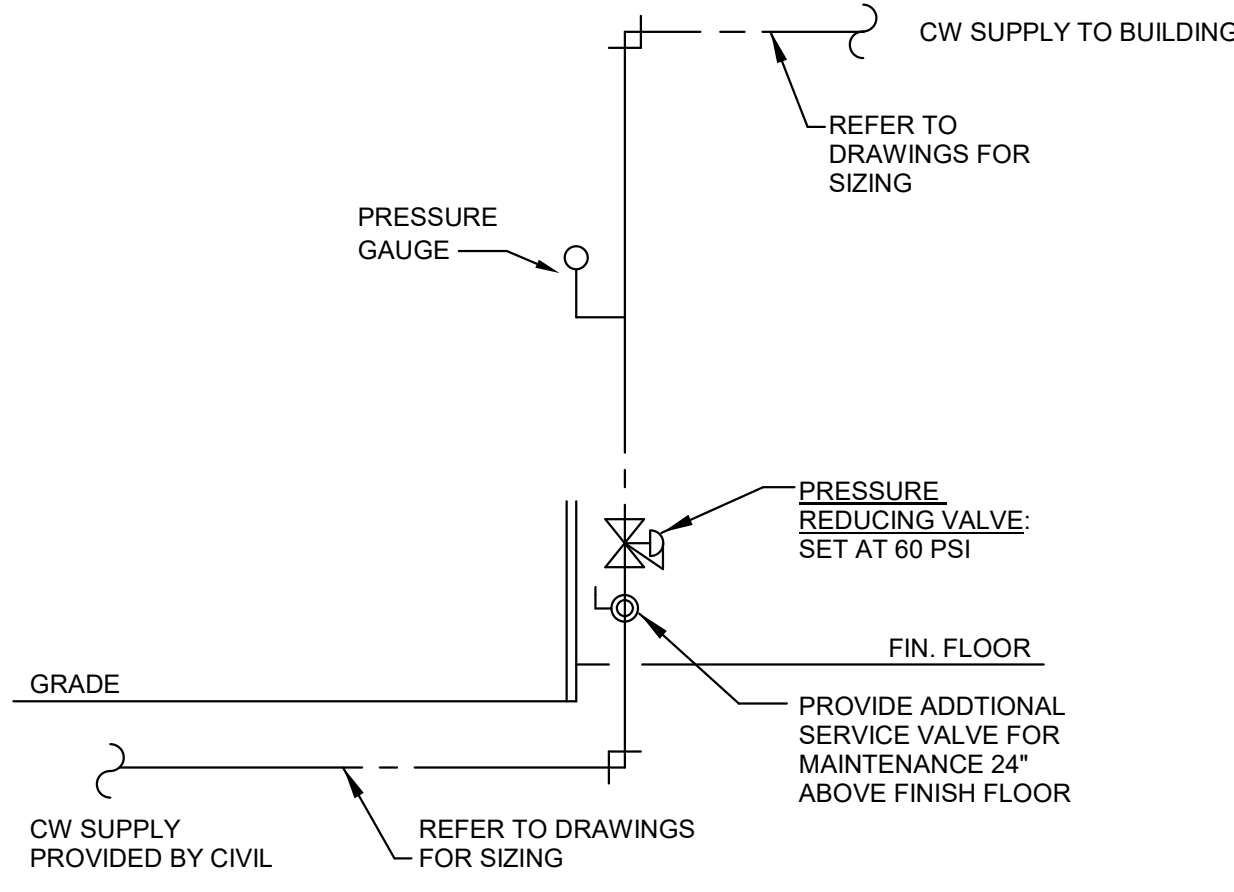


DETAIL OF COMBINATION DRAIN AND VENT AT ISLAND SINK
NO SCALE



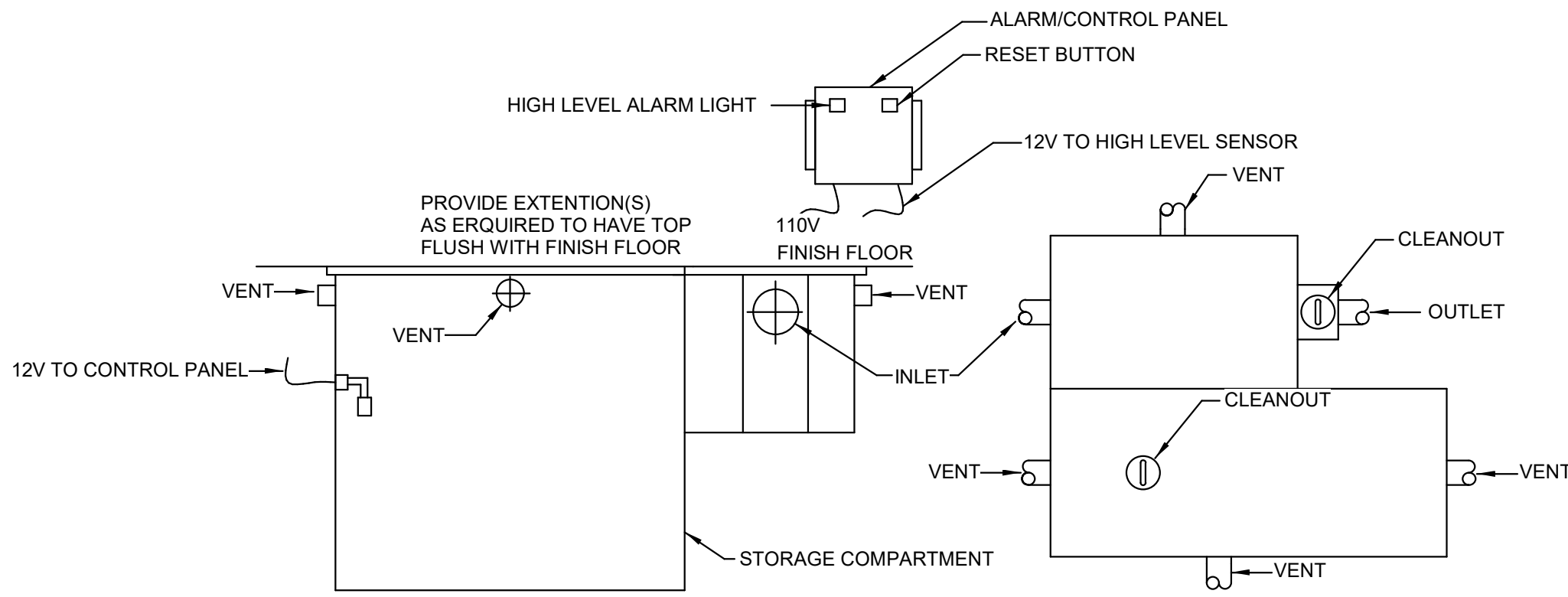
- NOTES:**
- APPLICATION: FOR STRUT MOUNTED, 4 INCH AND SMALLER, COVER PIPE WITH FOAMED PLASTIC (ARMAFLEX) OR FIBERGLASS INSULATION.
 - ALLOWED FOR HORIZONTAL OR VERTICAL INSTALLATION.
 - FOR COLD PIPE APPLICATION, APPLY ADHESIVE TO END OF FOAMED PLASTIC INSULATION PRIOR TO INSERTING INTO COUPLING.

STRUT-MOUNTED PIPING SUPPORT INSULATION COUPLING DETAIL
NO SCALE

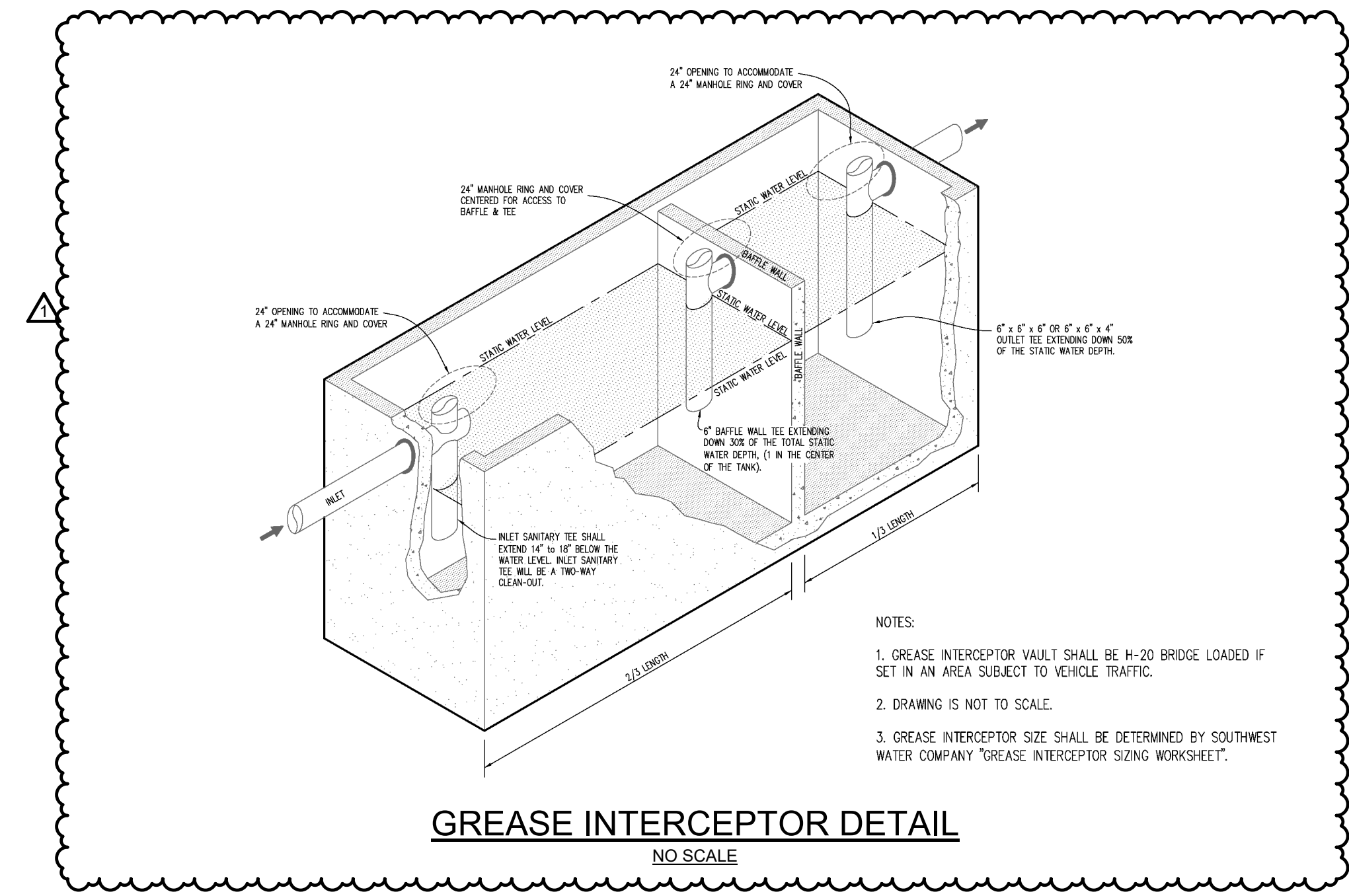


TYP. GAS CONNECTION
NO SCALE

DETAIL OF WATER ENTRY
NO SCALE



DETAIL of OIL/WATER SEPARATOR
NO SCALE



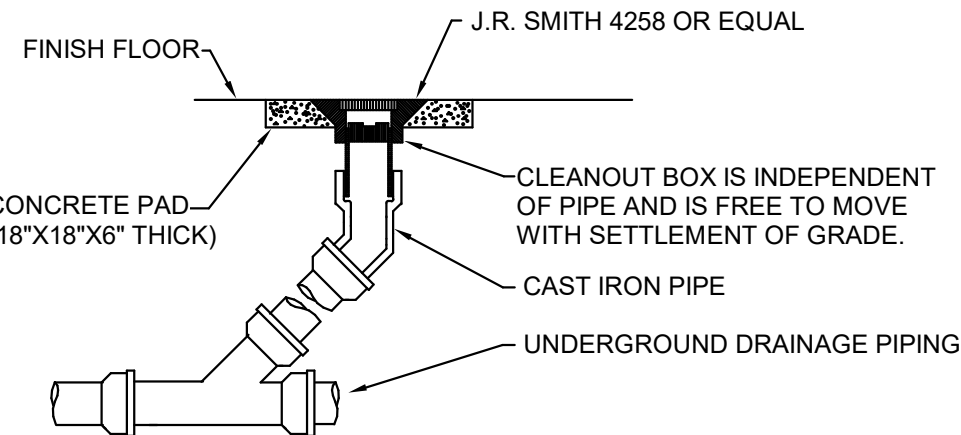
GREASE INTERCEPTOR DETAIL
NO SCALE

PLUMBING FIXTURE SCHEDULE

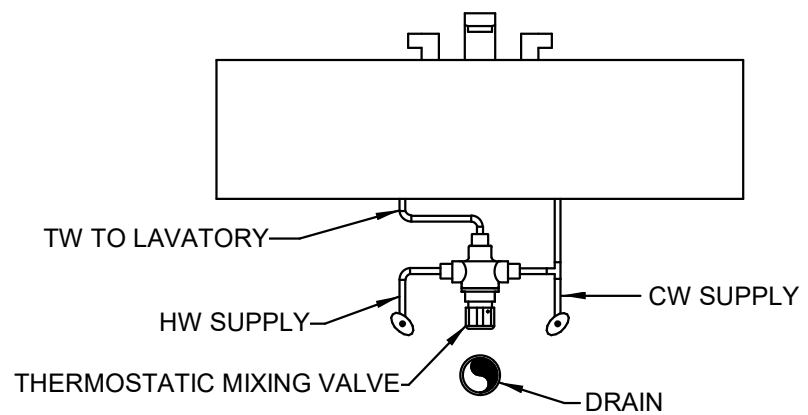
MARK	FLOOR	FIXTURE	WASTE	OW	HW	REMARKS
FD	FLOOR DRAIN		3"	-	-	J.R. SMITH #2010 WITH 6" ROUND NICKEL BRONZE GRATE. PROVIDE WITH J.R. SMITH TRAP INSERT.
FS	FLOOR SINK		4"	-	-	J.R. SMITH #3100, 8" SQUARE, PORCELAIN ENAMELED CAST IRON INTERIOR WITH 3/4 CAST IRON PORCELAIN ENAMELED GRATE AND J.R. SMITH #2010 WITH 6" ROUND NICKEL BRONZE GRATE. PROVIDE WITH J.R. SMITH TRAP INSERT.
GI-1	GREASE INTERCEPTOR		4"	-	-	A PRE-CAST REINFORCED CONCRETE, MINIMUM 500 GALLON CAPACITY, TO MEET LOCAL A.H.J. REQUIREMENTS. LIDS TO BE LOCKABLE. VERIFY SIZE REQUIREMENTS WITH LOCAL HEALTH DEPARTMENT AND BID ACCORDINGLY. REFER TO PLUMBING DRAWINGS FOR LOCATION. COORDINATE EXACT LOCATION OF GREASE TRAP WITH GENERAL CONTRACTOR.
OS-1	OIL/WATER SEPARATOR					J.R. SMITH #5599-SD-100 COMPLETE WITH ANCHOR FLANGE. INSTALLATION SHALL COMPLY WITH REQUIREMENTS OF AUTHORITY HAVING JURISDICTION. PROVIDE 12" EXTENSION IF REQUIRED FOR INSTALLATION. PROVIDE CLEAN-OUT ACCESS. PROVIDE HIGH-LEVEL SENSOR AND CONTROL PANEL.
P-1	WATER CLOSET - ADA COMPLIANT		4"	1"	-	FLOOR MOUNTED - KOHLER K-96057-SS-0, SLOAN #111 FLUSH VALVE WITH YJ BRACKET AND CHURCH "DURA GUARD" MODEL # 2155 SSC SEAT.
P-2	WATER CLOSET - ADA COMPLIANT		4"	1"	-	FLOOR MOUNTED - KOHLER K-96057-SS-0 COMPLETE SLOAN #111 SFSM BATTERY OPERATED SENSOR FLUSH VALVE WITH TRUE MECHANICAL OVERRIDE AND YJ BRACKET AND CHURCH "DURA GUARD" MODEL # 2155 SSC SEAT.
P-3	LAVATORY		1 1/2"	1/2"	1/2"	UNDERMOUNT - KOHLER K-2210 COMPLETE, KOHLER K14406-4 DECK MOUNTED FAUCET, ADA DESIGNED, MCGUIRE #8872 P-TRAP, MCGUIRE 165 SUPPLIES WITH STOPS. INSULATE ALL WITH "PRO-WRAP" BY MCGUIRE.
P-4	LAVATORY		1 1/2"	1/2"	1/2"	UNDERMOUNT - KOHLER K-2882 COMPLETE, SLOAN EAF-350 BATTERY OPERATED FAUCET, MCGUIRE #8872 P-TRAP, MCGUIRE 165 SUPPLIES WITH STOPS. INSULATE ALL WITH "PRO-WRAP" BY MCGUIRE.
P-5	SINK		1 1/2"	1/2"	1/2"	KOHLER K-3620 UNDERMOUNT DOUBLE BOWL SINK, K-8801-CP DRAIN AND STRAINER WITH TAILPIECE, CONTINUOUS WASTE OUTLET, KOHLER K-22973 FAUCET, MCGUIRE #1912 P-TRAP AND #165 STOPS WITH SUPPLIES.
P-6	SHOWER VALVE - ADA COMPLIANT		SD	1/2"	1/2"	KOHLER K28304-KS THERMOSTATIC SHOWER VALVE, K-22178-G-CP HAND SHOWER WITH K-22172-CP, L-T14491-4 DIVERTER VALVE, K-939-G-CP FIXED SHOWER HEAD, K-1214423-4 TRIM KIT. ADJUST FOR 105°F MAXIMUM TEMP. PROVIDE BACK PLATE.
P-7	WASHING MACHINE BOX (RESIDENTIAL)		1 1/2"	1/2"	1/2"	GUY GRAY #WB-200. PROVIDE SHOCK ARRESTORS PDI SIZE "B" ABOVE CEILING ON HOT AND COLD WATER LINES.
P-8	REF. ICE MAKER BOX		-	1/2"	-	FURNISHED AND INSTALLED UNDER ANOTHER SECTION. PROVIDE IN BOX A 1/2" BALL VALVE AND SHOCK ARRESTOR WITH 10 FEET OF PREMIUM STAINLESS STEEL FOR CONNECTION TO REFRIGERATOR ICE MAKER.
P-9	COFFEE MAKER		-	1/2"	-	FURNISHED AND INSTALLED UNDER ANOTHER SECTION. ROUGH AND CONNECT COMPLETE. PROVIDE BALL VALVE STOP ON SUPPLY. PROVIDE WATTS SD-3 ON COLD WATER SUPPLY IF REQUIRED BY LOCAL CODES.
P-10	ICE MACHINE		FS	1/2"	-	FURNISHED AND INSTALLED UNDER ANOTHER SECTION. ROUGH AND CONNECT COMPLETE. PROVIDE BALL VALVE STOP ON SUPPLY AND PIPE WASTE (S) TO FLOOR DRAIN. PROVIDE WATTS LP90 ON COLD WATER SUPPLY IF REQUIRED BY LOCAL CODES. PIPE RELIEF FULL SIZE TO FS.
P-11	DISHWASHER SUPPLY AND DRAIN BOX		2"	1/2"	1/2"	WALL HUNG - ELKAY ELV2219SACTMC COMPLETE WITH BATTERY OPERATED FAUCET, K7715 OUTLET WITH TAILPIECE, J.R. SMITH #700-M31-2 FIXTURE SUPPORT, MCGUIRE #165 SUPPLIES WITH STOPS AND MCGUIRE #8872 P-TRAP. INSULATE P-TRAP. STOPS WITH SUPPLIES WITH "PRO-WRAP" BY MCGUIRE. MOUNT WITH RIM MAXIMUM 34" AFF. PROVIDE LAWLER 570 THERMOSTATIC MIXING VALVE MOUNTED BELOW LAVATORY. RUN 100°F WATER TO FAUCET. MUST MEET A.D.A. GUIDELINES.
P-12	DISHWASHER		1 1/2"	-	1/2"	KOHLER K-3821, KOHLER K-8807-CP STRAINER WITH TAILPIECE, KOHLER K-22973 FAUCET, MCGUIRE #1912 P-TRAP AND #165 STOPS WITH SUPPLIES.
P-13	DECON LAVATORY		1 1/2"	1/2"	1/2"	PROVIDE A SIOUX CHIEF MODEL #696 DRAIN BOX, BOX TO COME COMPLETE WITH WALL FLANGE. MAKE FINAL CONNECTION TO DISHWASHER. ROUGH AND CONNECT COMPLETE. PROVIDE T INLET FOR SINK AND ISOLATION FOR HOT WATER CONNECTION. PROVIDE SHOCK ARRESTOR ABOVE CEILING.
P-14	CLEAN UTILITY SINK		1 1/2"	1/2"	1/2"	WALL HUNG - ELKAY ELV2219SACTMC COMPLETE WITH BATTERY OPERATED FAUCET, K7715 OUTLET WITH TAILPIECE, J.R. SMITH #700-M31-2 FIXTURE SUPPORT, MCGUIRE #165 SUPPLIES WITH STOPS AND MCGUIRE #8872 P-TRAP. INSULATE P-TRAP. STOPS WITH SUPPLIES WITH "PRO-WRAP" BY MCGUIRE. MOUNT WITH RIM MAXIMUM 34" AFF. PROVIDE LAWLER 570 THERMOSTATIC MIXING VALVE MOUNTED BELOW LAVATORY. RUN 100°F WATER TO FAUCET. MUST MEET A.D.A. GUIDELINES.
P-15	DRAIN BOX		1 1/2"	-	-	KOHLER K-3821, KOHLER K-8807-CP STRAINER WITH TAILPIECE, KOHLER K-22973 FAUCET, MCGUIRE #1912 P-TRAP AND #165 STOPS WITH SUPPLIES.
P-16	UTILITY SINK		1 1/2"	1/2"	1/2"	PROVIDE A SIOUX CHIEF MODEL #696-3F DRAIN BOX, #696-LC LOUVERED COVER, #696-CF SECONDARY DRAINAGE FUNNEL, AND J.R. SMITH TRAP SEAL INSERT. BOX TO COME COMPLETE WITH WALL FLANGE AND LOUVER. COORDINATE WITH MECHANICAL TO RECEIVE CONDENSATE WASTE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
SD	SHOWER DRAIN		2"	-	-	REGENCY 76.5" 16 GAUGE STAINLESS STEEL, TWO-COMPARTMENT SINK W/ RIGHT DRAINBOARD (OR EQUIVALENT) T&S MP18-SWLN-12-SWV, LOW PROFILE WALL MOUNT PRE-RINSE FAUCET W/ 12" ADD ON FAUCET.
WH	WALL HYDRANT		-	3/4"	-	J.R. SMITH #5599-OT, WITH INTEGRAL BACKFLOW PREVENTER, LATCHING COVER, FREEZE-PROOF AND OF PROPER LENGTH FOR WALL IN WHICH INSTALLED. ALL BRONZE BOX, VALVE SEAT MUST BE ON BUILDING SIDE OF EXTERIOR WALL INSULATION. INSTALL WITH CENTER LINE 24" ABOVE FINISH GRADE. PROVIDE OWNER WITH ONE (1) LOOSE KEY FOR EACH WALL HYDRANT.

WATER HEATER SCHEDULE

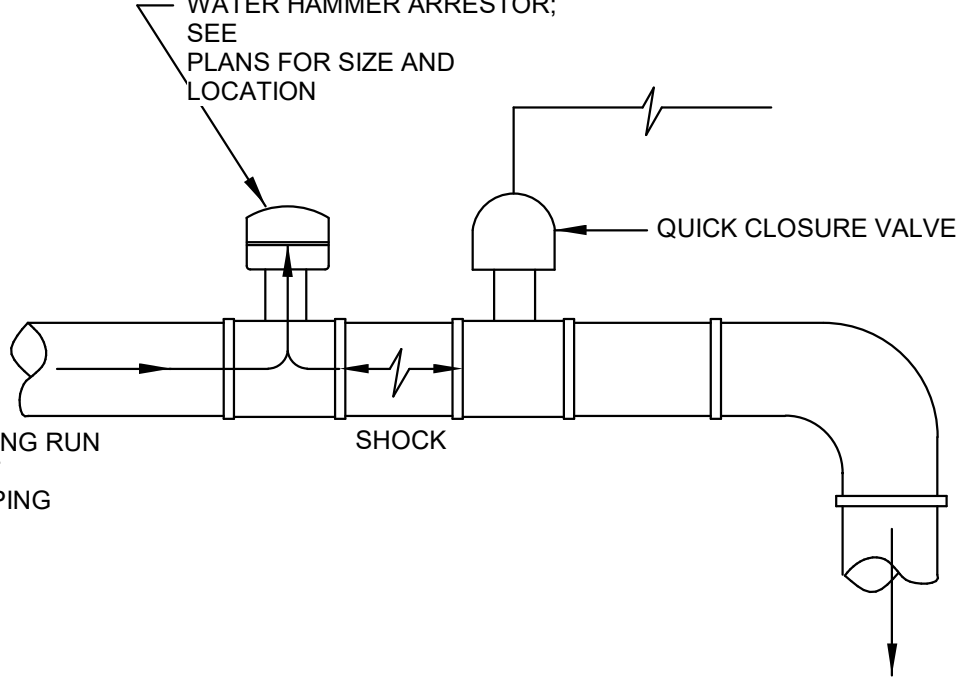
MARK	ELEC INFO	GAS INPUT	REMARKS
CP-1	1/12 HP, 115/160	-	ARMSTRONG COMPASS. PROVIDE WITH AQUASTAT EQUAL TO HONEYWELL L6006A AND TIMER.
ET-1	-	-	AMTROL THERM - X-TROL #ST-5 EXPANSION TANK, PRE-CHARGED, WELDED STEEL CONSTRUCTION. ISOLATION BETWEEN WATER AND AIR SHALL BE BY A BUTYL DIAPHRAM.
MMV	-	-	SYMMONS TEMP/CONTROL 7-500A-W COMPLETE. WALL MOUNTING BRACKET. SET OUTLET TEMPERATURE AT 125°F.
WH-1	120/160, 15A CIRCUIT BREAKER	199 CFH	INTELLIHOT 1200 WALL MOUNTED TANKLESS WATER HEATER
WH-2	120/160, 15A CIRCUIT BREAKER	199 CFH	INTELLIHOT 1200 WALL MOUNTED TANKLESS WATER HEATER



DETAIL OF CLEANOUT TO GRADE
NO SCALE



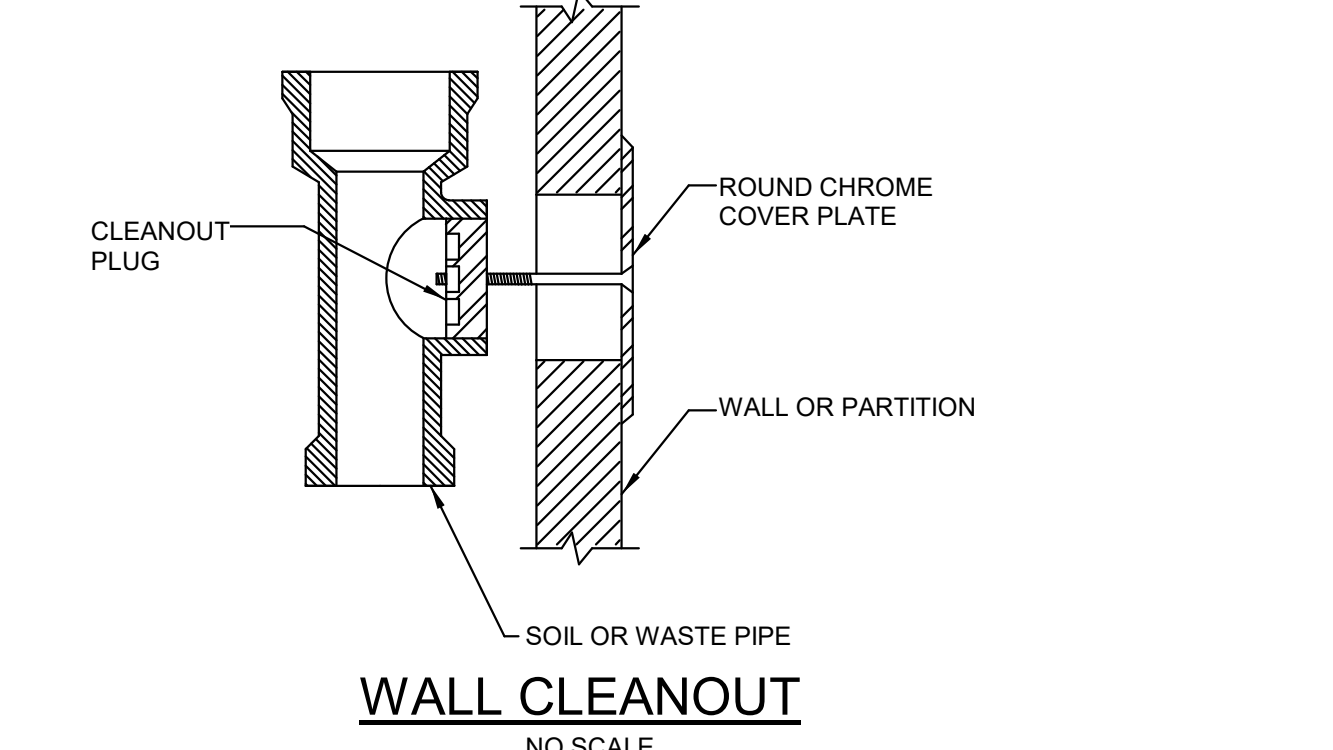
DETAIL OF TMV BELOW LAVATORY
NO SCALE



- NOTES:**
- SEE PLANS FOR SIZE; WATER HAMMER ARRESTOR SIZED ACCORDING TO PLUMBING AND DRAINAGE INSTITUTE(PDI) RATING.
 - INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 - PROVIDE IN WATER SUPPLY LINES TO WATER CLOSETS, LAVATORIES, SINKS AND URINALS.

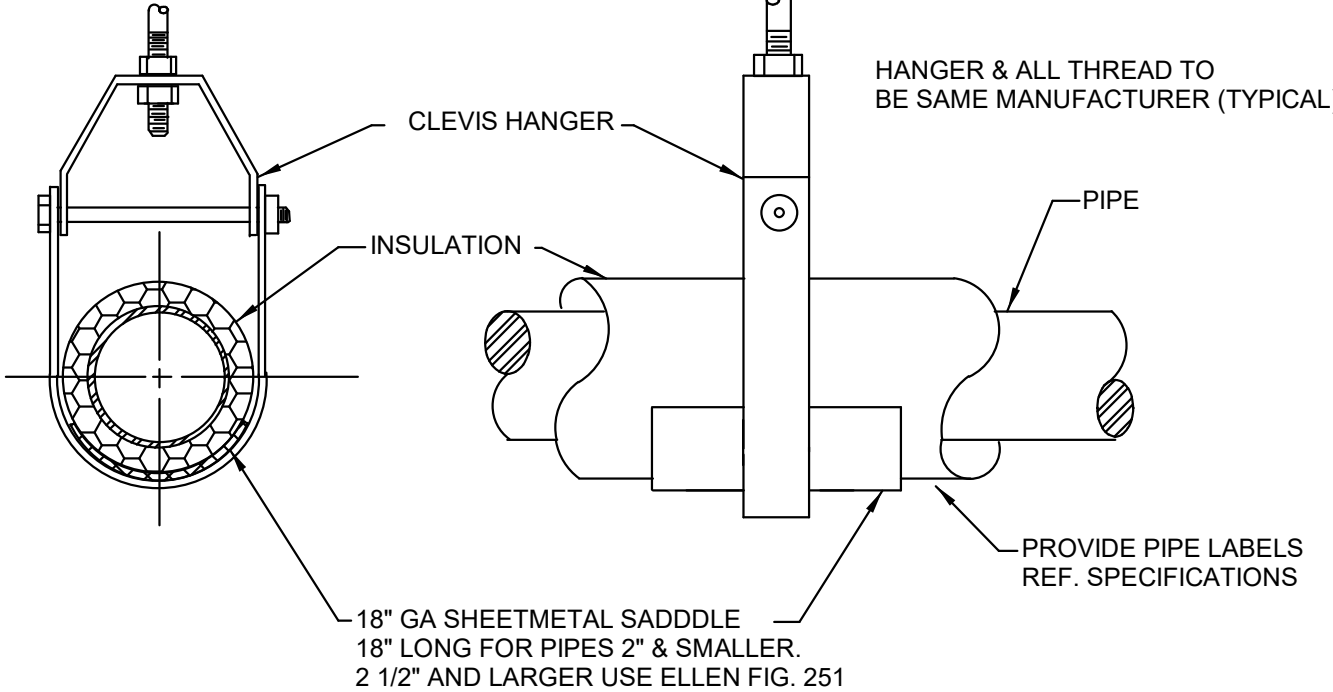
WATER HAMMER ARRESTOR

NO SCALE



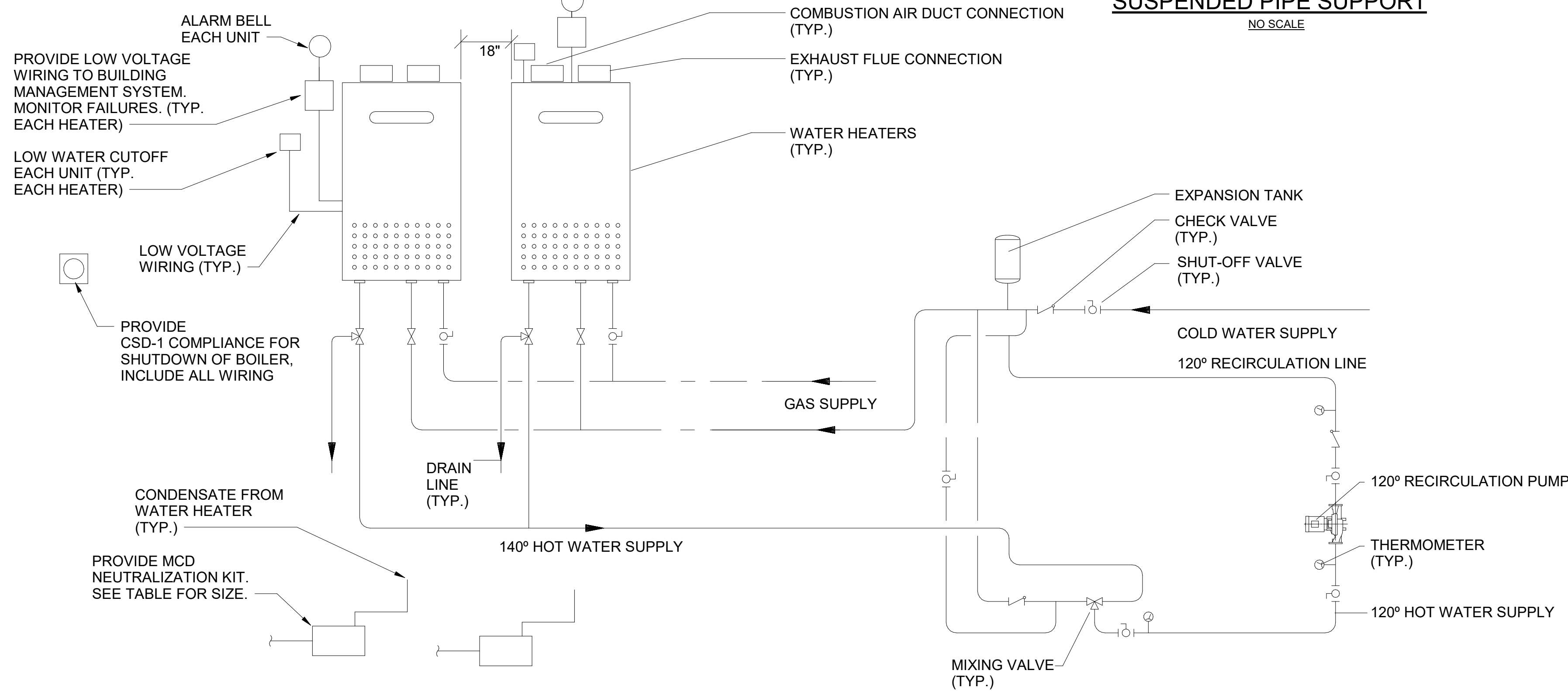
WALL CLEANOUT

NO SCALE



SUSPENDED PIPE SUPPORT

NO SCALE



TWO TANKLESS GAS WATER HEATERS DIAGRAM

No Scale

Dewberry

2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com

Project Number:
50191798

ARCHITECT OF RECORD:

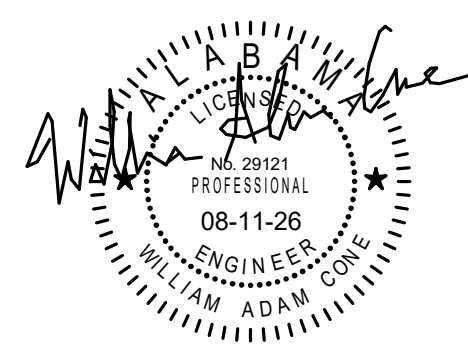
**WILLIAMS
BLACKSTOCK
ARCHITECTS**

2204 FIRST AVENUE SOUTH | SUITE 200
BIRMINGHAM, ALABAMA 35233

ARCHITECTURE · INTERIORS · PLANNING

ARCHITECT'S PROJECT NO.:

25-080.00



CONSULTANT INFORMATION:

PROJECT NAME:

**VESTAVIA HILLS FIRE
STATION No. 4
EXPANSION**

PROJECT ADDRESS:

**13041 LIBERTY PKWY, VESTAVIA
HILLS, AL 35242**

CLIENT NAME:

**THE CITY OF
VESTAVIA HILLS**

CLIENT PROJECT NO.:

00-0000

ASU PROJECT NO.:

XX-XXXX

KEY PLAN:

ISSUE STATUS:

100% BID DOCUMENTS

ISSUE DATE:

JUNE 12, 2026

REVISIONS:

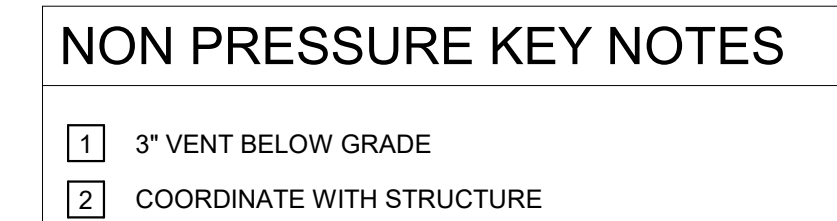
NO. DATE DESCRIPTION
1 8/12/2026 ADDENDUM 2

DRAWING TITLE:

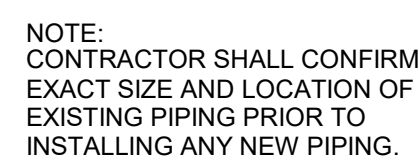
**PLUMBING
SCHEDULES, DETAILS
AND NOTES**

SHEET NUMBER:

P-001

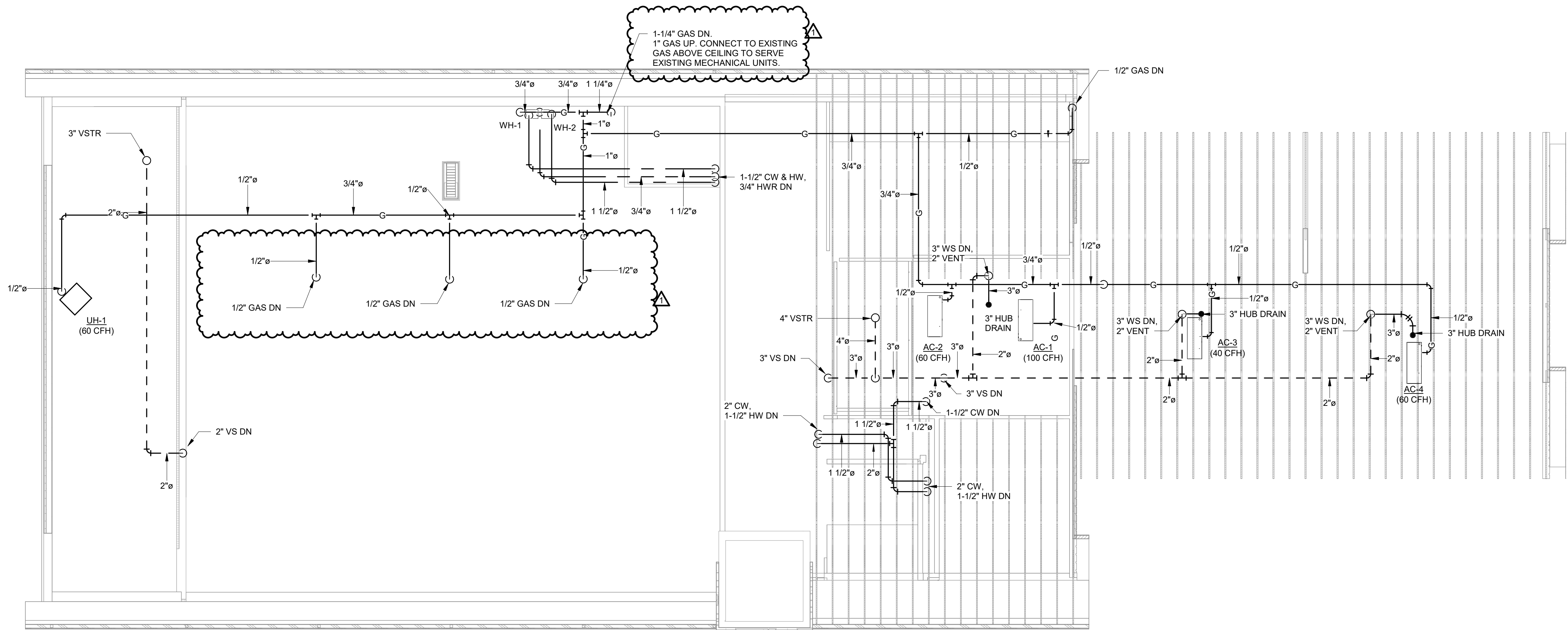


1/8" = 1'-0" 0' 4' 8' 16' 24'

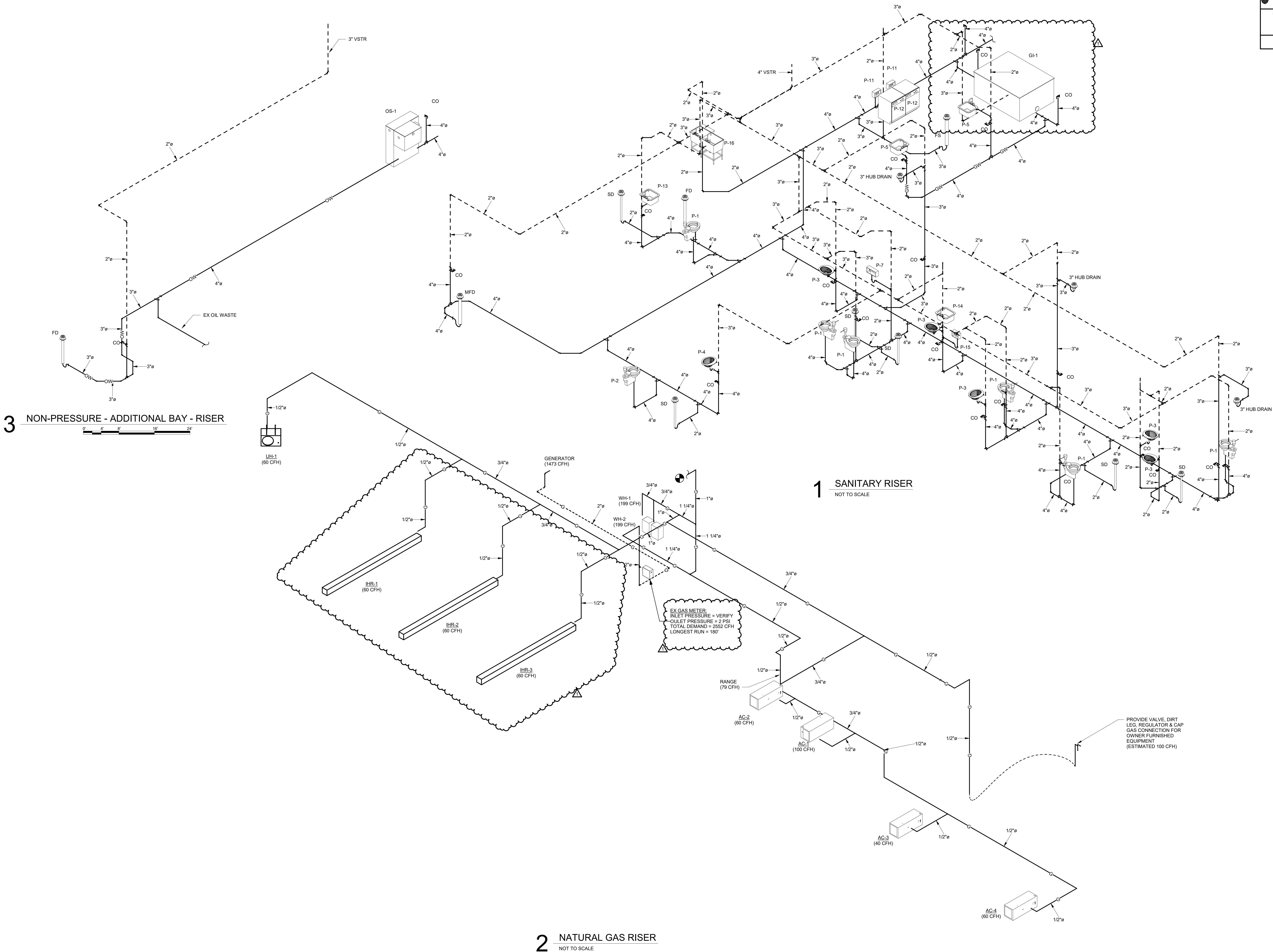


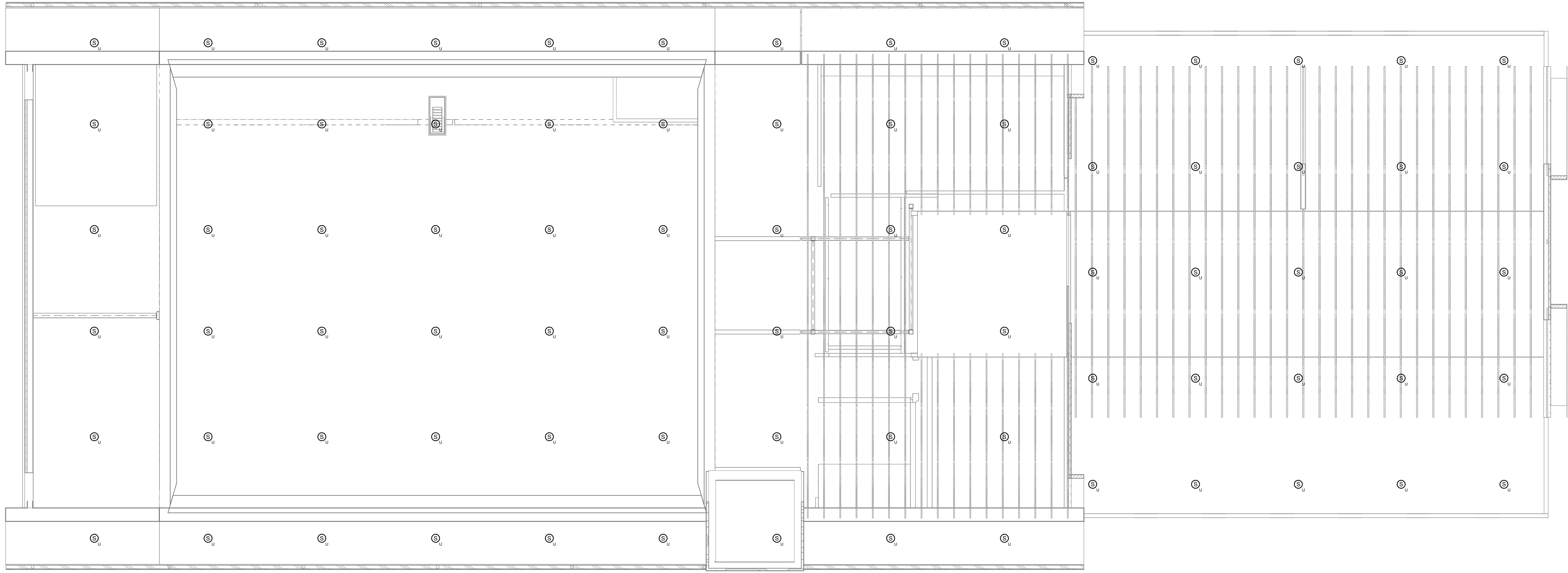
1/8" = 1'-0"

A horizontal graphic scale bar with tick marks at 0', 4', 8', 16', and 24'. The bar is divided into four equal segments, each representing 4 feet. The segments are filled with a black and white hatched pattern.

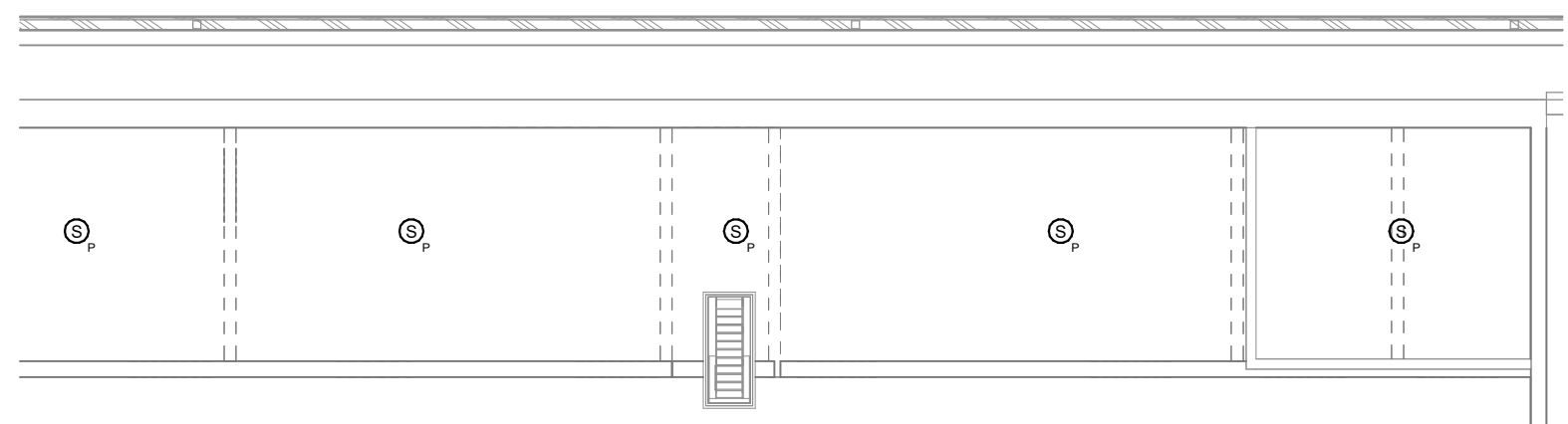


1 PLUMBING - FLOOR PLAN - MEZZANINE/ATTIC
1/8\" = 1'-0\"
0' 4' 8' 16' 24'

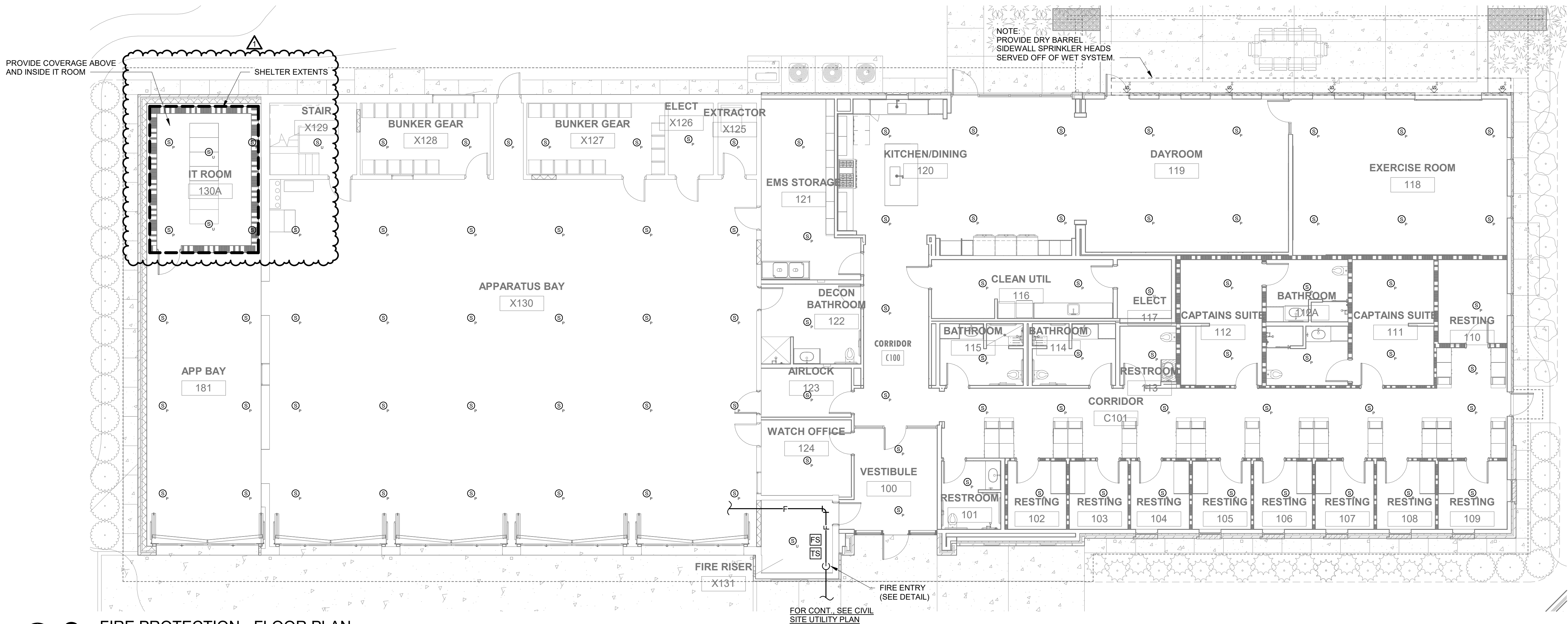




1 FIRE PROTECTION - FLOOR PLAN ATTIC
1/8" = 1'-0"



2 FIRE PROTECTION - FLOOR PLAN MEZZANINE
1/8" = 1'-0"



3 FIRE PROTECTION - FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES:

- VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGHING IN LIGHT SWITCHES TO ENSURE PROPER SWITCH LOCATION. VERIFY ALL CASEWORK DETAILS TO ENSURE THAT ALL OUTLETS ABOVE CASEWORK ARE AT THE PROPER HEIGHT.
- SERVICE TO THE BUILDING SHALL BE 120/240 VOLTS, SINGLE PHASE, 3 WIRE.
- ALL CONDUIT SHALL BE RUN CONCEALED UNLESS SPECIFICALLY SHOWN EXPOSED.
- THE CONTRACTOR SHALL CHECK ALL LIGHTING FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN.
- THE CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR AND VERIFY EXACT TYPE OF EQUIPMENT TO BE INSTALLED AND THE DIMENSIONS WHICH MAY AFFECT THE EXACT PLACEMENT OF ELECTRICAL WORK.
- VERIFY THE EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN. LIKEWISE APPRAISE ALL TRADES OF THE LOCATIONS OF ELECTRICAL WORK THAT AFFECTS WALL THICKNESS, PLUMBING, MECHANICAL, ETC.
- ALL CONDUIT STUBBED OUT FOR FUTURE SHALL BE CAPPED AND HAVE LOCATION MARKED WITH A 2" SQUARE, PAINTED RED, WITH CONDUIT NAME AND SIZE SHOWN IN WHITE.
- ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE AN INSULATED GROUND WIRE PULLED IN THE CONDUIT WITH CURRENT CONDUCTOR UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE GROUNDING CONDUCTOR SHALL BE SIZED ACCORDING TO TABLE 250-122 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE UNLESS INDICATED TO BE LARGER IN THE SPECIFICATIONS OR PLANS.
- DO ALL WORK IN COMPLIANCE WITH ALL APPLICABLE CODES, LAWS AND ORDINANCES, THE NATIONAL ELECTRICAL CODE (HEREINAFTER REFERRED TO AS "CODE" OR "NEC"), THE AMERICANS WITH DISABILITIES ACT, AND THE REGULATIONS OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND, WHERE APPLICABLE, UTILITY COMPANIES. OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS AND APPROVAL, AND THE LIKE, AND DELIVER SUCH CERTIFICATES TO THE OWNER.
- ALL CONDUCTORS SHALL BE COPPER, UNLESS NOTED OTHERWISE.
- MINIMUM CONDUCTOR SIZE SHALL BE #12.
- ALL CONDUIT INSTALLED INDOORS SHALL BE EMT, OTHERWISE SHALL BE IMC.
- SWITCH AND RECEPTACLE COVER PLATES SHALL BE STAINLESS STEEL.
- ALL DEVICES SHALL BE GRAY EXCEPT EMERGENCY POWER DEVICES WHICH SHALL BE RED.
- ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY, RATED 100,000 AIC.
- ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE.
- ALL CONDUCTORS SHALL BE AS INDICATED IN SPECIFICATIONS.
- GUTTERS (WIREWAYS) SHALL BE SIZED AS SHOWN OR AS REQUIRED BY CODE. ALL GUTTERS SHALL HAVE HINGED COVERS WITH APPROVED FASTENING DEVICES & SHALL BE A STANDARD MANUFACTURED ITEM WITH UL LABEL. GUTTERS FROM AC DUCT MATERIAL ARE NOT ACCEPTABLE. GUTTERS SHALL BE AS MANUFACTURED BY HOFFMAN, SQUARE "D", B & C OR APPROVED EQUAL. GUTTER TAPS SHALL BE ILSCO TYPE GTA OF PTA WITH GTC OR PTC INSULATING COVERS.

A

MECHANICAL EQUIPMENT WILL BE FURNISHED BY MECHANICAL CONTRACTOR. THE LOCATIONS SHOWN ON ELECTRICAL DRAWINGS ARE APPROXIMATE. COORDINATE WITH THE MECHANICAL CONTRACTOR TO DETERMINE THE EXACT LOCATION OF EACH PIECE OF EQUIPMENT AND DETERMINE THE EXACT ROUGH-IN AND VERIFY CONNECTION REQUIREMENTS WITH MECHANICAL EQUIPMENT SUBMITTALS.

VERIFY CEILING AND WALL CONSTRUCTION AND MATERIAL PRIOR TO ORDERING LIGHT FIXTURES OR OTHER DEVICES TO ENSURE PROPER FIXTURES OR DEVICE IS FURNISHED TO MATCH CONSTRUCTION. THIS VERIFICATION MUST BE EXECUTED REGARDLESS OF INFORMATION PLACED ON DRAWINGS. ANY COST INCURRED WHICH COULD HAVE BEEN AVOIDED BY THIS STEP SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK, DOOR SWINGS AND CABINET DRAWINGS AND ARCHITECTURAL ELEVATIONS WITH DEVICE LOCATIONS PRIOR TO ROUGH-IN OF OUTLET BOXES. RELOCATION OF UN-COORDINATED BOXES INSTALLED SHALL BE AT CONTRACTOR'S EXPENSE.

OWNER FURNISHED EQUIPMENT: CONTRACTOR SHALL OBTAIN CUT SHEETS, INSTALLATION DATA AND ROUGH-IN REQUIREMENTS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT AND COORDINATE ROUGH-IN AND POWER REQUIREMENTS WITH OWNERS REPRESENTATIVE PRIOR TO STARTING ASSOCIATED WORK.

THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DETERMINE THE EXTENT OF THE WORK. LACK OF KNOWLEDGE OF EXISTING CONDITIONS WILL NOT BE CONSIDERED AS A BASIS FOR CHANGE ORDERS. PRIOR TO ORDERING EQUIPMENT CONTRACTOR SHALL VERIFY THAT THE EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT IS ACCEPTABLE AND CAN FIT INTO THE BUILDING AND ROOM. EXPENSE INCURRED BY THE CONTRACTOR WHICH COULD HAVE BEEN AVOIDED BY THIS STEP SHALL NOT BE A BASIS FOR CHANGE ORDER.

PROVIDE #10AWG WIRE FOR ALL 120V, 20A BRANCH CIRCUITS EXCEEDING 120' AND #8AWG WIRE FOR ALL 120V, 20A BRANCH CIRCUITS EXCEEDING 180'.

ELECTRICAL CONTRACTOR SHALL REVIEW A/V CONTRACT DOCUMENTS FOR APPLICABLE ELECTRICAL REQUIREMENTS BEFORE BID. ELECTRICAL CONTRACTOR IS TO PROVIDE CONDUIT, BOXES AND RECEPTACLE OUTLETS, FLOOR OUTLETS AND BRANCH CIRCUITS REQUIRED FOR A/V.

ACCESS CONTROL: ELECTRICAL CONTRACTOR SHALL PROVIDE EMPTY RACEWAY. CCTV: PROVIDE 1/2" DATA OUTLETS FOR CCTV CAMERAS.

ALL JUNCTION BOXES SHALL BE CLEARLY MARKED WITH SYSTEM AND CIRCUIT INFORMATION.

MINIMUM CONDUIT SIZE SHALL BE 3/4".

FINAL EQUIPMENT CONNECTIONS - CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS REQUIRED TO MAKE FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR AND/OR FURNISHED BY OTHERS. VERIFY ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH IN.

MECHANICAL EQUIPMENT WILL BE FURNISHED BY MECHANICAL CONTRACTOR. THE LOCATIONS SHOWN ON ELECTRICAL DRAWINGS ARE APPROXIMATE. COORDINATE WITH THE MECHANICAL CONTRACTOR TO DETERMINE THE EXACT LOCATION OF EACH PIECE OF EQUIPMENT AND DETERMINE THE EXACT ROUGH-IN AND VERIFY CONNECTION REQUIREMENTS WITH MECHANICAL EQUIPMENT SUBMITTALS.

VERIFY CEILING AND WALL CONSTRUCTION AND MATERIAL PRIOR TO ORDERING LIGHT FIXTURES OR OTHER DEVICES TO ENSURE PROPER FIXTURES OR DEVICE IS FURNISHED TO MATCH CONSTRUCTION. THIS VERIFICATION MUST BE EXECUTED REGARDLESS OF INFORMATION PLACED ON DRAWINGS. ANY COST INCURRED WHICH COULD HAVE BEEN AVOIDED BY THIS STEP SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK, DOOR SWINGS AND CABINET DRAWINGS AND ARCHITECTURAL ELEVATIONS WITH DEVICE LOCATIONS PRIOR TO ROUGH-IN OF OUTLET BOXES. RELOCATION OF UN-COORDINATED BOXES INSTALLED SHALL BE AT CONTRACTOR'S EXPENSE.

OWNER FURNISHED EQUIPMENT: CONTRACTOR SHALL OBTAIN CUT SHEETS, INSTALLATION DATA AND ROUGH-IN REQUIREMENTS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT AND COORDINATE ROUGH-IN AND POWER REQUIREMENTS WITH OWNERS REPRESENTATIVE PRIOR TO STARTING ASSOCIATED WORK.

THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DETERMINE THE EXTENT OF THE WORK. LACK OF KNOWLEDGE OF EXISTING CONDITIONS WILL NOT BE CONSIDERED AS A BASIS FOR CHANGE ORDERS. PRIOR TO ORDERING EQUIPMENT CONTRACTOR SHALL VERIFY THAT THE EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT IS ACCEPTABLE AND CAN FIT INTO THE BUILDING AND ROOM. EXPENSE INCURRED BY THE CONTRACTOR WHICH COULD HAVE BEEN AVOIDED BY THIS STEP SHALL NOT BE A BASIS FOR CHANGE ORDER.

PROVIDE #10AWG WIRE FOR ALL 120V, 20A BRANCH CIRCUITS EXCEEDING 120' AND #8AWG WIRE FOR ALL 120V, 20A BRANCH CIRCUITS EXCEEDING 180'.

ELECTRICAL CONTRACTOR SHALL REVIEW A/V CONTRACT DOCUMENTS FOR APPLICABLE ELECTRICAL REQUIREMENTS BEFORE BID. ELECTRICAL CONTRACTOR IS TO PROVIDE CONDUIT, BOXES AND RECEPTACLE OUTLETS, FLOOR OUTLETS AND BRANCH CIRCUITS REQUIRED FOR A/V.

ACCESS CONTROL: ELECTRICAL CONTRACTOR SHALL PROVIDE EMPTY RACEWAY. CCTV: PROVIDE 1/2" DATA OUTLETS FOR CCTV CAMERAS.

ALL JUNCTION BOXES SHALL BE CLEARLY MARKED WITH SYSTEM AND CIRCUIT INFORMATION.

MINIMUM CONDUIT SIZE SHALL BE 3/4".

FINAL EQUIPMENT CONNECTIONS - CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS REQUIRED TO MAKE FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR AND/OR FURNISHED BY OTHERS. VERIFY ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH IN.

GRAPHICAL ELECTRICAL SYMBOLS

RECEPTACLE OUTLET SYMBOLS		
	CEILING OUTLET	DUPLEX RECEPTACLE, 20A, 125V, 3WIRE, NEMA 5-20R.
	WALL OUTLET	SINGLE RECEPTACLE, 20A, 250V, 3WIRE, NEMA 6-20R.
	WALL OUTLET	TAMPER RESISTANT DUPLEX RECEPTACLE, 20A, 125V, 3WIRE, NEMA 5-20R.
	WALL OUTLET	TAMPER RESISTANT DOUBLE DUPLEX RECEPTACLE, 20A, 125V, 3WIRE, NEMA 5-20R.
	WALL OUTLET	SINGLE RECEPTACLE, 30A, 125V, 3WIRE, NEMA L5-30R.
	WALL OUTLET	TAMPER RESISTANT, WEATHER RESISTANT, GROUND FAULT DUPLEX RECEPTACLE, 20A, 125V, WITH VERTICAL METAL WEATHERPROOFING COVER.
	FLOOR OUTLET	FLOOR BOX WITH RECESSED DUPLEX RECEPTACLE, 20A, 125V, 3WIRE, NEMA 5-20R WITH FLUSH BRASS ROUND COVER WITH HINGED RECEPTACLE COVERS.
RECEPTACLE OUTLET NOTES		
"G"	GROUND FAULT INTERRUPTER.	
"GA"	GROUND FAULT INTERRUPTER, MOUNTED ABOVE COUNTER.	
"A"	MOUNTED ABOVE COUNTER.	
"BC"	MOUNTED BELOW COUNTER.	
"DF"	FOR DRINKING FOUNTAIN.	

VOICE/DATA OUTLET & CONDUIT SYMBOLS		
	DATA OUTLET	FOUR PORT VOICE/DATA OUTLET. PROVIDE TWO GANG WALL MOUNTED BOX, WITH 1" CONDUIT HOMERUN TO ABOVE ACCESSIBLE CEILING IN CORRIDOR. SEE DETAIL ON SHEET E004 FOR FOUR PORT STATION CABLING SPECIFICATION.
	DATA OUTLET	TWO PORT VOICE/DATA OUTLET. PROVIDE TWO GANG WALL/CEILING MOUNTED BOX, WITH 1" CONDUIT HOMERUN TO ABOVE ACCESSIBLE CEILING IN CORRIDOR. SEE DETAIL ON SHEET E004 FOR TWO PORT STATION CABLING SPECIFICATION.
	DATA OUTLET	TELEPHONE BACKBOARD - 3/4" PLYWOOD PAINTED WITH TWO COATS OF FIRE RETARDANT PAINT, 48"x96" HIGH, UNLESS SHOWN OTHERWISE.
VOICE/DATA OUTLET NOTES		
"A"	MOUNTED ABOVE COUNTER.	
"BC"	MOUNTED BELOW COUNTER.	

GENERAL ABBREVIATIONS	
H	MOUNTING HEIGHT ABOVE FINISHED FLOOR.
AFF	ABOVE FINISHED FLOOR.
WP	WEATHER PROOF.
RT	RAIN TIGHT - NEMA 4.
EP	EXPLOSION PROOF.
TP	TAMPER PROOF.
A	MOUNT ABOVE COUNTER.
BC	MOUNT BELOW COUNTER.
F	FLUSH MOUNTED.
SLD	SEE SINGLE LINE DIAGRAM.
GFCI	GROUND FAULT INTERRUPTING.
CC	CONDUIT.
CC	FLEXIBLE CONDUIT.
SFC	SEALTITE FLEXIBLE CONDUIT.
EMT	ELECTRICAL METALLIC TUBING.
IMC	INTERMEDIATE METALLIC CONDUIT.
RG	RIGID CONDUIT.
PVC	NONMETALLIC RIGID CONDUIT.
EX	EXISTING TO REMAIN.
XR	EXISTING TO BE REMOVED.
RL	EXISTING TO BE REMOVED AND RELOCATED.
RQ	EXISTING TO BE REMOVED. EXTEND CIRCUIT CONDUCTORS AS REQUIRED AND INSTALL FINISHED BLANK COVER.
RR	EXISTING TO BE REMOVED AND REPLACED WITH NEW.
RLD	RELOCATED POSITION.
EM	EMERGENCY FIXTURE ON EMERGENCY BRANCH CIRCUIT
NL	NIGHT LIGHT

GENERAL SYMBOLS	
	JUNCTION BOX.
	WALL MOUNTED JUNCTION BOX.
	WALL MOUNTED JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
	SAFETY SWITCH, NON-FUSED.
	SAFETY SWITCH, FUSED.
	LIGHTING PANEL AND/OR RECEPTACLE PANEL.
	POWER PANEL.
	CEILING EXHAUST FAN - FRACTIONAL.
	MANUAL MOTOR STARTER WITH THERMAL PROTECTION, LOOKABLE TYPE
	HORN SPEAKER. PROVIDE TWO GANG WALL MOUNTED BOX, WITH 1" CONDUIT HOMERUN TO ABOVE ACCESSIBLE CEILING IN CORRIDOR.
	OUTDOOR PORCH SPEAKER. PROVIDE TWO GANG WALL MOUNTED BOX, WITH 1" CONDUIT HOMERUN TO ABOVE ACCESSIBLE CEILING IN CORRIDOR.

ADDRESSABLE FIRE ALARM SYSTEM SYMBOLS		
	FIRE ALARM SYSTEM	ADDRESSABLE MANUAL PULL STATION, MOUNT 48"H.
	FIRE ALARM SYSTEM	FIRE ALARM CONTROL PANEL.
	FIRE ALARM SYSTEM	ANNUNCIATOR PANEL, FLUSH MOUNTED.
	FIRE ALARM SYSTEM	HORN STROBE (87db, 110 CANDELLA), BOTTOM OF DEVICE MOUNTED AT 80"H. ADA APPROVED.
	FIRE ALARM SYSTEM	STROBE (110 CANDELLA), BOTTOM OF DEVICE MOUNTED AT 80"H. ADA APPROVED.
	FIRE ALARM SYSTEM	LOW FREQUENCY HORN STROBE (87db, 110 CANDELLA), BOTTOM OF DEVICE MOUNTED AT 80"H. ADA APPROVED.
	FIRE ALARM SYSTEM	ADDRESSABLE SMOKE DETECTOR, PHOTOELECTRIC.
	FIRE ALARM SYSTEM	ADDRESSABLE HEAT DETECTOR.
	FIRE ALARM SYSTEM	ADDRESSABLE SMOKE DUCT DETECTOR, PHOTOELECTRIC.
	FIRE ALARM SYSTEM	WATER FLOW CONNECTION.
	FIRE ALARM SYSTEM	SUPERVISORY CONNECTION.
	FIRE ALARM SYSTEM	CONTROL ZAM IN NEMA 1 ENCLOSURE.
	FIRE ALARM SYSTEM	MONITOR ZAM IN NEMA 1 ENCLOSURE.
	FIRE ALARM SYSTEM	DUCT SMOKE DETECTOR INDICATOR LIGHT.
	FIRE ALARM SYSTEM	SFO
	FIRE ALARM SYSTEM	SFO
	FIRE ALARM SYSTEM	MAGNETIC DOOR HOLDER.

FIRE ALARM SYSTEM NOTES	
FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT, CONDUCTORS AS RECOMMENDED BY MANUFACTURER. ALL DEVICES SHALL BE FLUSH MOUNTED UNLESS NOTED BY "S" IN WHICH CASE THE DEVICES SHALL BE MOUNTED ON A SURFACE BOX, FURNISHED BY THE FIRE ALARM EQUIPMENT SUPPLIER, FINISHED TO MATCH THE ALARM SYSTEM EQUIPMENT. DEVICES SHOWN ON CEILING SHALL BE FLUSH MOUNTED IN CEILING OR PENDANT/SURFACE MOUNTED IN EXPOSED CEILING AREAS. SEE ARCHITECTURAL RCP FOR CEILING TYPES.	

CAMERA SYSTEMS AND ACCESS CONTROL SYMBOLS		
	SURVEILLANCE SYSTEM	CAMERA. PROVIDE "D2" DATA OUTLET. HOMERUN CABLES TO CCTV DVR.
	CARD ACCESS	CARD READER, SEE DETAIL ON SHEET E003
CAMERA SYSTEMS AND ACCESS CONTROL NOTES		
ELECTRICAL CONTRACTOR SHALL REVIEW SECURITY CONTRACT DOCUMENTS FOR APPLICABLE ELECTRICAL REQUIREMENTS BEFORE BID. ELECTRICAL CONTRACTOR IS TO PROVIDE CONDUIT, BOXES AND BRANCH CIRCUITS WHERE REQUIRED BY SECURITY CONTRACT DOCUMENTS.		

- ANY CONDUIT CROSSING A STRUCTURAL EXPANSION JOINT SHALL BE PROVIDED WITH A CONDUIT EXPANSION FITTING.
- PROVIDE PLASTIC END BUSHINGS ON ALL CONDUIT STUB OUTS ABOVE ACCESSIBLE CEILING.
- PROVIDE LABELS FOR ALL PANELBOARDS, CABINETS, SAFETY SWITCHES, MOTOR DISCONNECT SWITCHES. LABELS SHALL BE MACHINE ENGRAVED, LAMINATED PLASTIC, PERMANENTLY ATTACHED WITH SELF TAPPING SCREWS OR RIVETS. LABEL TO INCLUDE EQUIPMENT TAG/NAME, PANEL FED FROM AND CIRCUIT NUMBER. DO NOT USE SELF ADHESIVE LABELS.
- ALL WORK IN NEW OR REMODELED AREAS SHALL BE MADE TO TIE INTO EXISTING IN A UNIFORM MANNER. SIMILAR ITEMS IN NEW AREAS SHALL BE CHECKED AGAINST EXISTING AREAS AS FOR TYPE MOUNTING, MOUNTING HEIGHTS, ETC. ANY ITEMS SHOWN IN NEW AREAS AT VARIANCE FROM ABOVE SHALL BE REFERRED TO ARCHITECT FOR DECISION PRIOR TO ROUGHING IN.
- NOTE THAT THIS IS AN OPERATING FACILITY AND THUS ANY WORK THAT MAY CAUSE A DISTURBANCE OR INTERRUPTION IN THE NORMAL OPERATION OF THE FACILITY MUST BE CAREFULLY COORDINATED WITH THE ARCHITECT AND OWNER AND SPECIAL STEPS SHALL BE TAKEN TO MINIMIZE SUCH OCCURRENCES. ALL DISTURBANCES OR INTERRUPTIONS SHALL BE APPROVED BY THE OWNER PRIOR TO THE OCCURRENCE.
- ALL NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELBOARDS SHALL MATCH EXISTING ELECTRICALLY & MECHANICALLY AND SHALL HAVE A KAIC RATING EQUAL OR GREATER THAN RATED KAIC RATING OF THE PANELBOARD.

GENERAL DEMOLITION NOTES:

- THE EXTENT OF DEMOLITION IS NOT SHOWN HERE, CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AS REQUIRED BY NEW WORK.
- ALL ELECTRICAL CONDUIT, WIRING, DEVICES, FIXTURES, ETC. REQUIRED TO BE REMOVED TO ALLOW FOR NEW CONSTRUCTION, ABANDONED AS A RESULT OF NEW CONSTRUCTION, OR CURRENTLY NOT IN SERVICE SHALL BE REMOVED AS PART OF THIS CONTRACT. EXPOSED CONDUITS & CONDUITS IN ACCESSIBLE AREAS SHALL BE REMOVED COMPLETELY. CONDUITS CONCEALED IN FLOORS, WALLS & ABOVE NON-ACCESSIBLE CEILINGS MAY BE CAPPED AND ABANDONED AFTER REMOVAL OF ALL CONDUCTORS.
- EXISTING ELECTRICAL EQUIPMENT AND CIRCUITRY NOT BEING REMOVED OR REWORKED UNDER THIS CONTRACT, BUT LOCATED SO AS TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT, SHALL REMAIN IN SERVICE. SUCH CIRCUITS EQUIPMENT, ETC., SHALL BE EXTENDED, RELOCATED OR REMOVED & REINSTALLED AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- DUO TO THE DEMOLITION OF CEILINGS, CONTRACTOR SHALL RELOCATE AND/OR SUPPORT EXISTING ITEMS AT OR ABOVE CEILING THAT WILL REMAIN IN SERVICE.

BRANCH CIRCUIT SYMBOLS	
	HOMERUN TO 20A, 1POLE CIRCUIT BREAKER IN PANELBOARD OR DEVICE NOTED. WIRE SIZE IS 2#12&1#12GRD-3/4"C, UNLESS NOTED OTHERWISE.
	(2)HOMERUN TO 20A, 1POLE CIRCUIT BREAKER IN PANELBOARD OR DEVICE NOTED. WIRE SIZE IS 4#12&1#12GRD-3/4"C, UNLESS NOTED OTHERWISE.
	(3)HOMERUN TO 20A, 1POLE CIRCUIT BREAKER IN PANELBOARD OR DEVICE NOTED. WIRE SIZE IS 6#12&1#12GRD-3/4"C, UNLESS NOTED OTHERWISE.
	CONCEALED IN CEILING OR WALL. EXPOSED IN EXPOSED CEILING AREAS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES.
	CONCEALED IN FLOOR.
	EXISTING CONDUIT BARS DENOTE NEW CONDUCTORS.
	RISER UP.
	RISER DOWN.

BRANCH CIRCUIT NOTES	
	2#12&1#12GRD-3/4"C, UNLESS NOTED OTHERWISE.
	3#12&1#12GRD-3/4"C
	4#12&1#12GRD-3/4"C
	2#10&1#10GRD-3/4"C
	3#10&1#10GRD-3/4"C

SIZE CONDUIT PER NEC FOR GREATER NUMBER OF CONDUCTORS OR AS NOTED. THE NUMBER IN THE CIRCUIT INDICATES AWG WIRE SIZE AND THE HASHMARKS INDICATE THE NUMBER OF WIRES REQUIRED. EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250-122. THE NUMBER OF HASH MARKS DO NOT INCLUDE EQUIPMENT GROUNDING CONDUCTOR.

LIGHTING FIXTURE & CONTROL SYMBOLS	
	FIXTURE TYPE "A" CIRCUIT #1.
	EXISTING.
	A.C. TYPE, SINGLE POLE, 20A, 125/277V.
	A.C. TYPE, THREE WAY, 20A, 125/277V.
	120V, 20A, 3 WAY WALL SWITCH WITH OCCUPANCY DETECTION.
	120V, 20A, WALL SWITCH WITH OCCUPANCY DETECTION.
	120V, 20A, WALL SWITCH WITH OCCUPANCY DETECTION AND 0-10V DIMMING CONTROL. PROVIDE DIMMING WIRING TO FIXTURES.
	120V, 20A, WALL SWITCH WITH 0-10V DIMMING CONTROL. PROVIDE DIMMING WIRING TO FIXTURES.
	POWER/RELAY PACK, rLIGHT NP16. SEE DETAIL ON SHEET E006.
	360° DUAL TECH SENSOR LIGHTING MOTION DETECTOR, CEILING MOUNTED.

SWITCH OUTLET NOTES	
"a" "b" ETC.	FIXTURE CORRESPONDS TO A SWITCH DENOTED WITH THE SAME LOWER CASE LETTER.

EXIT LIGHT SYMBOLS	
	SINGLE FACE, NO ARROW.
	DOUBLE FACE, LEFT OR RIGHT ARROWS.
	SINGLE FACE, LEFT OR RIGHT ARROW.
	SINGLE FACE, LEFT AND RIGHT ARROWS.
	DOUBLE FACE, LEFT AND RIGHT ARROWS.
	SINGLE FACE, NO ARROW.
	SINGLE FACE, LEFT AND OR RIGHT ARROW(S).

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS			MTG. TYPE	MTG. HT.	REC. DEPTH	DESCRIPTION
			LAMP/FIX	WATTS	TYPE				
D1	3G LIGHTING USAI IRIS	3G-D133RF70-10-H95-35K-400-UNV-DIM-WT-W-NOF-W-P301-10W-NC-UNV-D22-H50-RE-1W-50A-S-W-10M-TRK-067-P3AT3R509035010	LOT	15	LED	R	C	-	3" RECESSED LED DOWNLIGHT WITH 1500 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, WET LOCATION RATED, PROVIDE FIRE RATED DOWNLIGHT COVER FOR ALL DOWNLIGHTS INSTALLED IN FIRE RATED CEILINGS. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF FIRE RATED CEILINGS.
D1-E	3G LIGHTING USAI IRIS	3G-D133RF70-10-H95-35K-400-UNV-DIM-WT-W-NOF-W-EMR-P301-10W-NC-UNV-D22-H50-RE-1W-50A-S-W-10M-TRK-067-P3AT3R509035010EM7	LOT	15	LED	R	C	-	3" RECESSED LED DOWNLIGHT WITH 1000 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, WET LOCATION RATED AND EMERGENCY BATTERY PACK. PROVIDE FIRE RATED DOWNLIGHT COVER FOR ALL DOWNLIGHTS INSTALLED IN FIRE RATED CEILINGS. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF FIRE RATED CEILINGS.
D2	HE WILLIAMS LITHONIA COOPER	6DR-TL-S150/935-DIM1-UNV-DIM-OP-35-80-MS-WT-NOF-W-P301-10W-NC-UNV-D22-H50-RE-1W-50A-S-W-10M-TRK-067-P3AT3R509035010EM7	LOT	45	LED	R	C	-	6" RECESSED LED DOWNLIGHT WITH 6000 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, WET LOCATION RATED.
L1	FINELITE LIGHTPLANE CORELITE HE WILLIAMS	HP4R-R-0-16FT-B-935-F-96LG LPX-4-D-SP-S16-OM/0400-35-80 CL40R-F-400R85-1-UNV-DIM-OP-W-TC-16 LT-22-L39/935-AF-DIM1	LOT	46	LED	R	C	-	16" RECESSED DIRECT LINEAR FIXTURE WITH CONTINUOUS RUN, 400LM/FT, 3500K COLOR TEMPERATURE.
L2	LITHONIA COOPER	STAK-2X2-3000LM-90CRI35K-COL-MIN-Z1-MVOL-T	LOT	24	LED	R	LI	-	2X2 LED LAY IN FIXTURE WITH 3000 LUMEN OUTPUT, 3500K COLOR TEMPERATURE.
L2-E	HE WILLIAMS LITHONIA COOPER	LT-22-L39/935-AF-EM/10W-DIM1-UNV STAK-2X2-3000LM90CRI35K-COL-MIN-Z1-MVOL-T-E10W	LOT	24	LED	R	LI	-	2X2 LED LAY IN FIXTURE WITH 3000 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, EMERGENCY BATTERY PACK.
L3	HE WILLIAMS LITHONIA -	75R-4-L30/935-DIM1-UNV CLX-L48-3000LM-SEF-FOL120-GZ1-35K-90CRI-WH	LOT	25	LED	P	?	-	4" LED PENDANT MOUNTED STRIP FIXTURE WITH 3000 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, DIFFUSE LENS AND WHITE FINISH.
L3-E	HE WILLIAMS LITHONIA METALUX	75R-4-L30/935-2HR-EM-DIM1-UNV CLX-L48-3000LM-SEF-FOL120-GZ135K90CRI-WH-2HRM	LOT	25	LED	P	?	-	4" LED PENDANT MOUNTED STRIP FIXTURE WITH 3000 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, DIFFUSE LENS, WHITE FINISH AND 2HR CONSTANT POWER EMERGENCY BATTERY PACK.
L4	HE WILLIAMS LITHONIA COOPER	LT-24-L82/935-AF-DIM1 STAK-2X4-7200LM-90CRI35K-COL-MIN-Z1-MVOL-T	LOT	55	LED	R	LI	-	2X4 LED LAY IN FIXTURE WITH 7200 LUMEN OUTPUT, 3500K COLOR TEMPERATURE.
L4-E	HE WILLIAMS LITHONIA COOPER	LT-24-L82/935-AF-EM/10W-DIM1-UNV STAK-2X4-7200LM90CRI35K-COL-MIN-Z1-MVOL-T-E10W	LOT	55	LED	R	LI	-	2X4 LED LAY IN FIXTURE WITH 7200 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, EMERGENCY BATTERY PACK.
P1	LIGHTNET ALLURE WAC	1M-G1-A--E-9-35-M-D400-P-*	LOT	22	LED	P	?	-	16" DIAMETER, 6" TALL, LED PENDANT MOUNTED FIXTURE WITH 1600 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, OPAL DIFFUSER, STEM SUSPENSION, DIRECT ONLY FINISH TO BE SELECTED BY ARCHITECT.
P2	3G LIGHTING LUMENPULSE COOPER	3G-PDL33RF-7H-20-H95-35K-900-UNV-DIM--C60-EMR	LOT	19	LED	P	?	-	3" DOWNLIGHT, 7" TALL, LED CYLINDER, PENDANT MOUNTED WITH 2000 LUMENS, 3500K COLOR TEMPERATURE, 90 DEGREE BEAM, SOFTENING LENS, CABLE SUSPENSION AND FINISH TO BE SELECTED BY ARCHITECT.
P2-E	3G LIGHTING LUMENPULSE COOPER	3G-PDL33RF-7H-20-H95-35K-900UNVDIM--C60-EMR	LOT	19	LED	P	?	-	3" DOWNLIGHT, 7" TALL, LED CYLINDER, PENDANT MOUNTED WITH 2000 LUMENS, 3500K COLOR TEMPERATURE, 90 DEGREE BEAM, SOFTENING LENS, CABLE SUSPENSION, FINISH TO BE SELECTED BY ARCHITECT AND REMOTE EMERGENCY BATTERY PACK.
P3	LIGHTNET ALLURE -	1M-Y1-O--E-9-35-M-D400-*	LOT	22	LED	S	C	-	16" DIAMETER, 6" TALL, LED SURFACE MOUNTED FIXTURE WITH 1600 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, OPAL DIFFUSER, DIRECT ONLY FINISH TO BE SELECTED BY ARCHITECT.
SC-1	- - -	- - -	LOT	-	LED	S	C	-	WALL MOUNTED LED SCONCE. TO BE SELECTED BY ARCHITECT.
W	HE WILLIAMS LITHONIA COOPER	VWHP-130/840-1FT-0BZ-CGL-EM/4W-PC-DIM-120 WOC-LED-4W-PC-DIM-120 YW-SRM-4W-W-PC-DBDXD	LOT	35	LED	W	B'	-	EXTERIOR LED WALL SCONCE WITH 4000K COLOR TEMPERATURE, 2000 LUMEN OUTPUT, WIDE DISTRIBUTION, VISUAL COMFORT LENS, PHOTOCELL, EMERGENCY BATTERY PACK AND DARK BRONZE FINISH.
FP	HE WILLIAMS LITHONIA -	VF2-157/740-NS-SR-0BZ-PC-DIM-120 GSKR-LED-PZ-40K-NSP-RC62-PC-DBDXD	LOT	-	LED	-	-	-	FLAG POLE LED FLOOD LIGHT WITH 4000K COLOR TEMPERATURE, 5000 LUMEN OUTPUT, NARROW SPOT DISTRIBUTION, PHOTOCELL, YOKE MOUNT AND DARK BRONZE FINISH.
Y	LITHONIA GARDCO LITHONIA	OPF-M-A09-840-T4W-ARI-UNV-BK-PCB LQM-S-W-RG-MVOL-EL	LOT	80	LED	POLE	23'	-	LED SITE LUMINAIRE, 17,000 LUMEN OUTPUT, 4000K CCT, TYPE 4 WIDE DISTRIBUTION, PHOTOCELL, ARM MOUNT, BLACK TEXTURED FINISH. PROVIDE ALL ACCESSORIES FOR MOUNTING. 20' STRAIGHT SQUARE STEEL POLE 4" POLE SHAFT, 11 GAUGE STEEL, BLACK FINISH. CONCRETE BASE 3' AFF.
XL	- - -	- - -	FURNISHED WITH UNIT	-	S	C	-	-	THERMOPLASTIC EXIT SIGN WITH EXTRA FACEPLATE, REMOVABLE CHEVRONS, WHITE FINISH, STENCIL FACE TYPE, SWITCHABLE LETTER COLOR AND EMERGENCY BATTERY PACK.

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ARCHITECTURE, INTERIORS, PLANNING

PROJECT/PROJECT NO:

25-080.00



CONSULTANT INFORMATION:

PROJECT NAME:

VESTAVIA HILLS FIRE
STATION NO. 4
EXPANSION

PROJECT ADDRESS:

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CLIENT NAME:

THE CITY OF
VESTAVIA HILLS

CLIENT/PROJECT NO:

00-0000

ARCH/PROJECT NO:

GENERAL NOTES:

1. FOLLOW THE TIA/EIA 568B WIRING STANDARD AS DEVELOPED BY THE TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) AND THE ELECTRONIC INDUSTRIES ALLIANCE (EIA).
2. QUALITY ASSURANCE:
 - a. CONTRACTOR'S ON-SITE SUPERINTENDENT MUST POSSESS BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL (BICS) INSTALLER 2, COPPER CERTIFICATION
 - b. CONTRACTOR SHALL PROVIDE SUCCESSFUL CATEGORY 6 TEST RESULTS
3. A ENHANCED CATEGORY-6 STRUCTURED CABLING DESIGN AND INSTALLATION IS REQUIRED.
4. TELECOMMUNICATION CABLE PATHWAYS SHALL NOT EXCEED 90 METERS FROM THE TELECOMMUNICATION ROOM (TR) TO THE OUTLET.
5. PROVIDE A BUILDING ENTRANCE TERMINAL (BET) WHERE ALL COPPER, FIBER, AND COAXIAL OUTSIDE PLANT CABLES ENTER THE BUILDING.
6. BACKBOARD:
 - a. CONSTRUCTED OF 1/4-INCH FIRE RETARDANT AC-GRADE PLYWOOD PAINTED ON ALL SIDES.
 - b. MOUNTED VERTICALLY TO ALL WALLS IN EVERY TELECOMMUNICATION ROOM.
7. CONDUITS ENTERING THE TELECOM ROOM SHALL TERMINATE AT THE BACKBOARD EDGE EITHER DIRECTLY ABOVE OR DIRECTLY BELOW THE PLYWOOD BACKBOARD TO MINIMIZE THE ROUTING OF CABLES AROUND THE ROOM. NO TELECOM CONDUIT SHOULD PENETRATE THE CEILING OR FLOOR MORE THAN 3 INCHES FROM THE WALL THAT SUPPORTS A BACKBOARD.
8. A GROUND BUSBAR SHALL BE INSTALLED ON THE BACKBOARD IN EACH TELECOM ROOM. THIS BUSBAR SHALL BE CONNECTED TO THE BUILDING ENTRANCE SERVICE GROUND BUSBAR, AND AT NO OTHER POINT, WITH AN INSULATED AWG #6 SOLID CONDUCTOR. THE BUSBAR SHALL BE A MINIMUM OF A 1/2" X 2" X 12" COPPER BUSBAR WITH STAND-OFF INSULATORS FOR BACKBOARD MOUNTING AND MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. (SEE ERICO PART# EGBA1421EE AS AN ACCEPTED EXAMPLE).
9. A WIRE BASKET-TYPE CABLE TRAY SHALL BE INSTALLED AT THE TOP OF THE TELECOM BACK BOARD AND SHALL CIRCUMNAVIGATE THE ENTIRE TELECOM ROOM BETWEEN 90 INCHES AND 96 INCHES AFF. ANY CONDUITS THAT ENTER THE ROOM SHALL BE CONNECTED TO THE CABLE TRAY BY EITHER DIRECT MECHANICAL CONNECTION OR VIA A CABLE TRAY BRIDGE. TELECOM CABLING IS NEVER ALLOWED TO HANG IN FREE SPACE WITHOUT SUPPORT. THIS TRAY SHALL BE A MINIMUM 4"X12" CABLOFIL CF105 OR EXACT EQUIVALENT WIRE BASKET TRAY IN SIZE AND FINISH IN THE TELECOMMUNICATIONS ROOM.
10. CABLE HOOKS MUST BE RATED BY THE MANUFACTURER FOR THE USE OF CATEGORY-6 DATA CABLING. ORDINARY CABLE HOOKS ARE UNACCEPTABLE.
11. CABLE TRAY RAILS SHALL NOT BE CUT TO ACCOMMODATE OBSTRUCTIONS. CABLE TRAY SUPPORTS SHALL BE LOCATED SO THAT CONNECTIONS BETWEEN SECTIONS OF THE CABLE TRAY FALL BETWEEN THE SUPPORT AND 1/4 OF THE SPAN. PROVIDE SUPPORTS WITHIN 24 INCHES ON EACH SIDE OF CONNECTION TO A BEND, TEE, OR CROSS.
12. CABLE TRAY OR HOOKS ARE NOT TO BE INSTALLED OVER HARD CEILINGS WITH A LENGTH GREATER THAN 72 INCHES.
13. WHERE CABLE RUNS MUST CROSS A HARD CEILING WITH A LENGTH GREATER THAN 72 INCHES, CONDUIT TRANSITIONS MUST BE INSTALLED.
14. THE CROSS-SECTIONAL AREA OF THE CONDUIT TRANSITIONS MUST EQUAL THE CROSS SECTIONAL AREA OF THE CABLE TRAY.
15. CABLE TRAYS AND J-HOOKS ARE TO BE INSTALLED NOT MORE THAN 24 INCHES ABOVE A CEILING GRID. WHEN INSTALLING THE PATHWAY FOR A CABLE TRAY, CONTRACTOR SHALL ENSURE THAT THERE ARE 6 INCHES OF CLEARANCE ABOVE THE CABLE TRAY AND TO ONE SIDE OF THE CABLE TRAY. NO OTHER TRADE SHALL INSTALL ANY PIPING OR EQUIPMENT WITHIN 6 INCHES ABOVE OR TO ONE SIDE OF THE CABLE TRAY.
16. EACH TELECOMMUNICATIONS OUTLET BOX REQUIRES A 1-INCH EMT CONDUIT TO BE INSTALLED FROM THE OUTLET BOX TO THE NEAREST CABLE TRAY OR HOOKS OR TO THE TELECOM ROOM. A PULL STRING MUST BE INSTALLED IN EACH CONDUIT. WHERE A CABLE TRAY IS USED, THE CONDUITS SHALL MAKE A MECHANICAL CONNECTION TO THE TRAY AT THE TOP RAIL WITH A NYLON BUSHING. NO GAPS BETWEEN CONDUIT AND CABLE TRAYS ARE PERMITTED. WHERE CABLE HOOKS ARE USED, THE CONDUITS SHOULD TERMINATE WITHIN 6-INCHES OF A CABLE HOOK IN THE ABOVE CEILING CORRIDOR. PULL BOXES SHALL BE INSTALLED FOR EVERY 180 DEGREES OF BEND IN A CONDUIT AND NOTATED ON DRAWINGS. MAXIMUM CONTINUOUS CONDUIT LENGTH BETWEEN PULL BOX IS 100 FEET. ALL PULL BOXES SHALL BE INSTALLED ABOVE CORRIDORS WHERE CABLE TRAYS OR CABLE HOOKS ARE NOT USED.
17. ALL CABLE TRAYS SHALL BE GROUNDED TO THE TELECOM ROOM BUSBAR WITH AN AWG #6 SOLID CONDUCTOR AS THEY PASS BY THE TRS AND ALL DISCONTINUOUS SECTIONS OF CABLE TRAY SHALL BE CONNECTED WITH AN AWG #6 SOLID CONDUCTOR JUMPER WIRE. ALL CONDUITS THAT ARE NOT MECHANICALLY BONDED TO THE CABLE TRAY SHALL BE BONDED USING A #6 BONDING JUMPER FROM CONDUIT TO CABLE TRAY.
18. OUTLETS:
 - a. A STANDARD DOUBLE-GANG ELECTRICAL OUTLET BOX (4" X 4" X 2" DEEP) SHALL BE INSTALLED AT EACH TELECOMMUNICATION OUTLET. ALL OUTLET BOXES ARE TO BE SECURELY FASTENED TO THE STUDS OF THE INTERIOR WALL. A 1-INCH CONDUIT SHALL BE INSTALLED FROM THE OUTLET BOX, RUNNING UP THE INTERIOR OF THE WALL, OUT INTO THE HALLWAY ABOVE THE CEILING, AND MECHANICALLY ATTACHED TO THE CABLE TRAY. OIT RECOMMENDS USE OF ERICO CADDY 18P24SM FLANGE MOUNT CONDUIT CLIP. THE CONDUIT SHOULD INTERFACE THE TOP OF THE DOUBLE-GANG OUTLET BOX AT AN OFF-CENTER POSITION TO ALLOW FOR MAXIMUM BENDING RADIUS OF FUTURE CABLE INSTALLS. A PULL-STRING OR PULL-WIRE SHOULD BE INSTALLED IN EACH CONDUIT. THE CONDUIT SHOULD HAVE NO MORE THAN 180 DEGREES OF BENDS BETWEEN THE OUTLET BOX AND THE ABOVE CEILING CORRIDOR SPACE, AND THEREFORE A JUNCTION BOX ABOVE THE CEILING OVER AN OFFICE SHOULD NOT BE NECESSARY. DO NOT PLACE JUNCTION BOXES ABOVE THE CEILINGS OVER OFFICES.
 - b. WHERE IT IS NECESSARY TO AGGREGATE SEVERAL OF THESE CONDUITS INTO A JUNCTION BOX, THE CONDUIT FROM THE JUNCTION BOX TO THE CABLE TRAY/HOOKS OR TELECOMMUNICATION ROOM SHALL BE SIZED ACCORDING TO THE NUMBER OF 1-INCH CONDUITS BEING AGGREGATED IN ACCORDANCE WITH FACILITY STANDARDS CONDUIT FILL CAPACITY CHART.
 - c. CABLING IN EXPOSED CEILING AREAS SHALL BE IN CONDUIT.
20. INSTALLATION REQUIREMENTS:
 - a. RISER SCHEDULE: CONTRACTOR SHALL PROVIDE COPPER RISER CABLES BETWEEN THE BET AND EACH IDF AND TERMINATE AND GROUND EACH CABLE. PROVIDE 25 PAIR COPPER. TERMINATE IN 24 PORT RACK MOUNTED PATCH PANEL. VERIFY WITH OWNER IT DEPARTMENT.
 - b. THE CONTRACTOR SHALL PROVIDE AND TERMINATE FIBER CABLE HOMERUN BETWEEN THE BET AND EACH IDF. PROVIDE 12 STRAND 50 MICRON FIBER. TERMINATE FIBER IN PANDUIT FWM2 FIBER ENCLOSURE. VERIFY WITH OWNER IT DEPARTMENT.
 - c. CONTRACTOR SHALL INSTALL FACEPLATE WITH BLANK INSERTS ON ALL UNUSED TELECOM WALL BOXES.
 - d. CONTRACTOR SHALL GET APPROVAL FROM IT DEPARTMENT ON LOCATION OF EQUIPMENT IN THE TELECOMMUNICATION ROOMS TO INCLUDE RACKS AND PATCH PANELS.
 - e. TERMINATE HORIZONTAL STATION CABLES AT PATCH PANELS. PROVIDE D-RINGS TO ROUTE STATION CABLES IN ORDERLY MANNER FROM ENTRANCE TO THE BACKBOARD TO THE PANEL.
 - f. USE VELCRO TIES FOR BUNDLING OF CABLES. ZIP TIES ARE NOT ALLOWED.
 - g. ALL BACKBOARD TERMINATIONS SHALL BE LABELED WITH OFFICIAL ROOM NUMBER, JACK NUMBER AND PORT NUMBER.
 - h. CATV PORT - LEAVE 8-10 INCHES OF CABLE SLACK IN THE BACK BOX BEHIND THE FACEPLATE.

LABELING REQUIREMENTS:

- i. EACH JACK FACEPLATE SHALL HAVE TWO BUILT-IN LABEL SLOTS WITH CLEAR PLASTIC REMOVABLE COVERS. EACH JACK WILL BE LABELED ACCORDING TO THE ROOM NUMBER AND JACK NUMBER. IN ROOMS WHERE MORE THAN ONE JACK IS LOCATED, SEQUENTIAL JACK NUMBERING IS REQUIRED. FOR EXAMPLE, JACK 123-1 IS LOCATED IN ROOM 123 AND IS THE FIRST JACK IN THE SEQUENCE. JACK 123-4 IS ALSO LOCATED IN ROOM 123 AND IS FOURTH IN THE SEQUENCE OF JACKS. A COMPUTER PRINTED LABEL IS REQUIRED WITH BOLD LETTERING TO BE INSTALLED IN THE LABEL SLOTS OF THE FACEPLATE. HAND-PRINTED LABELS ARE NOT ACCEPTABLE.
- ii. EACH PORT SHALL BE LABELED ON THE BACKBOARD TERMINATIONS. FOR EXAMPLE, IF THE BACKBOARD TERMINATION HARDWARE (PATCH PANEL) LABEL STATES 123-1-1, IT INDICATES THIS JACK AND PORT ARE LOCATED IN ROOM 123, FACEPLATE 1, PORT 1. A BACKBOARD TERMINATION LABEL THAT STATES 123-4-2 INDICATES THE JACK IS LOCATED IN ROOM 123, FACEPLATE 4, PORT 2.
- iii. BACKBOARD TERMINATIONS CONNECTED TO WIRELESS ACCESS POINTS (WAP) MUST BE LABELED SIMILARLY TO 7.5.3.2. FOR EXAMPLE, IF THE BACKBOARD TERMINATION HARDWARE (PATCH PANEL) LABEL STATES WA123-1, IT INDICATES THIS WAP IS IN ROOM 123. A BACKBOARD TERMINATION LABEL THAT STATES WA123-2 INDICATES THE SECOND OF MULTIPLE WAPS IN ROOM 123. WA123 INDICATES A WAP IN A HALLWAY OR PUBLIC SPACE OUTSIDE ROOM 123.

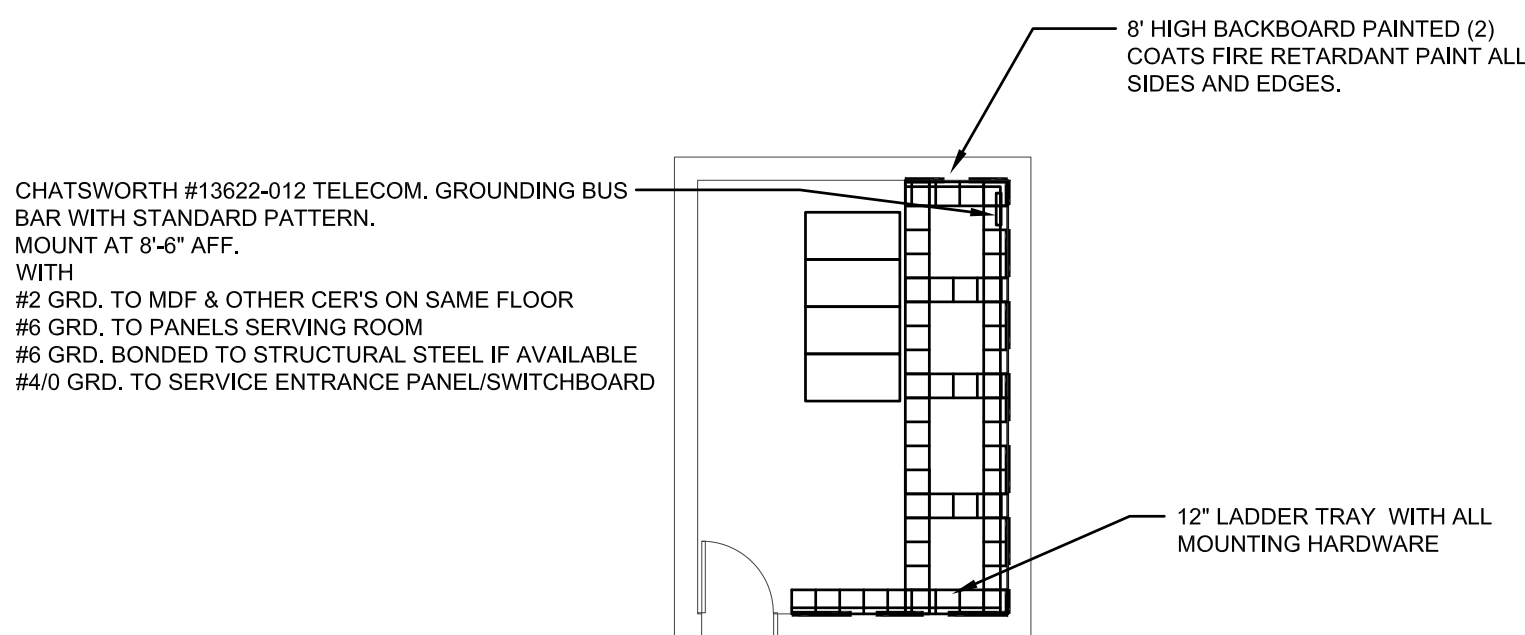
GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL RACEWAYS, J-HOOKS, CABLING, RACKS, TERMINATIONS, BACKBOARDS, ETC.
2. PROVIDE A PLASTIC BUSHING OR PROTECTIVE COLLAR AT EACH CONDUIT TERMINATION, INCLUDING TERMINATIONS ABOVE CEILING, OR AT TBB.
3. SEAL ALL CONDUITS FROM THE EXTERIOR WITH A SEALING COMPOUND ONCE ALL CABLING HAS BEEN INSTALLED.
4. PROVIDE A GROUND BUS AT EACH TBB/DATA ROOM.
5. STENCIL ALL JUNCTION BOX COVERS ABOVE THE CEILING WITH 2" LETTERS THAT READ "COMM".
6. RACK AND PATCH PANELS SHALL BE PROVIDED BY CONTRACTOR.
7. COORDINATE TELECOM ROOM LAYOUT WITH OWNER IT DEPARTMENT. PROVIDE MOCK-UP FOR REVIEW AND APPROVAL.

NOTES:

1. TELECOM RACK

TELECOM ROOM - RECEPTALE LAYOUT
NOT TO SCALE



TELECOM ROOM - EQUIPMENT LAYOUT
NOT TO SCALE

MODULAR JACKS FOR D1 OUTLET

- D1 ► INDICATES:
OUTLET FOR D1 STATION,
(1) 8 PIN STAINLESS STEEL ASSEMBLY (CAT6/568B) EQUAL TO: SIEMON COMPANY KIT #MX-FP-S-06-002

NOTE:
JACKS SHALL BE PROVIDED AND INSTALLED BY COMMUNICATIONS CONTRACTOR.

TYPICAL D1 JACK FRONT VIEW

UNIQUE LABEL XXX-YY-ZZZ

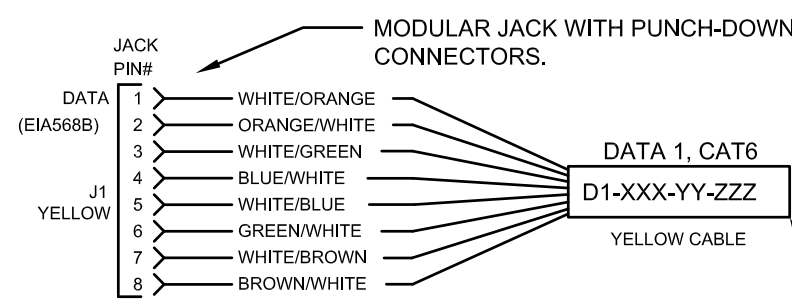
SINGLE GANG DEVICE PLATE MOUNTED ON DOUBLE GANG OUTLET BOX WITH SINGLE GANG ADAPTER SHEET ROCK PLATE (MOUNTED VERTICALLY)

TYPICAL WID1 JACK FRONT VIEW

UNIQUE LABEL XXX-YY-ZZZ

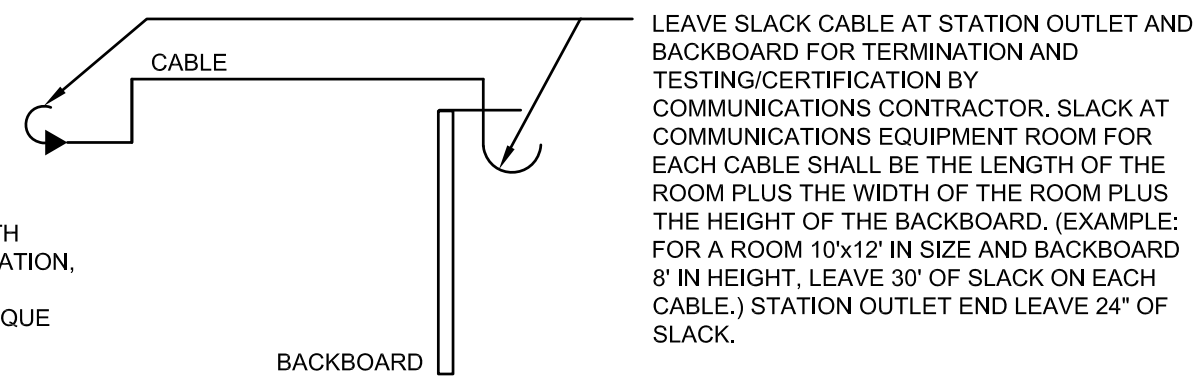
SINGLE GANG DEVICE PLATE MOUNTED ON DOUBLE GANG OUTLET BOX WITH SINGLE GANG ADAPTER SHEET ROCK PLATE (MOUNTED VERTICALLY)

TYPICAL D1 & WID1 STATION CABLING



D1 JACKS SHALL BE USED FOR CAMERAS ONLY UNLESS OTHERWISE APPROVED.

TYPICAL OUTLET CABLING
SEE PLANS FOR CONDUIT LAYOUT



NOTES:

1. CONTRACTOR SHALL TEST ALL CABLES TO ENSURE END-TO-END CONTINUITY OF ALL CONDUCTORS IN EACH CABLE. THE JACKS SHALL BE FURNISHED, INSTALLED AND TERMINATED BY COMMUNICATIONS CONTRACTOR. AFTER TERMINATION, CONTRACTOR SHALL TEST FOR CONDUCTOR OPENS, TIP AND RING REVERSAL AND SHORTS, GROUNDS AND CABLE TRANSPORTION. THE CONTRACTOR, AT NO ADDITIONAL COST, SHALL REPLACE ANY CABLES THAT FAIL TO MEET PUBLISHED PERFORMANCE CRITERIA. TEST RESULTS SHALL BE SUBMITTED TO OWNER.

MATERIALS LISTING:

- a. OUTLETS:
 - i. CATEGORY 6 ANSI TIA/EIA568B 2-1
 - ii. PANDUIT BLUE - C688TG* FOR NETWORK JACKS, YELLOW FOR DATA, GRAY FOR VOICE.
 - iii. PANDUIT FACEPLATE - CBEWY
 - iv. PANDUIT FACEPLATE INSERT - CHF2MW-X
 - v. PANDUIT 1/3 BLANK INSERT - CHB2MW-X
 - vi. PANDUIT BLANK JACK MODULE - CMBW-X
 - viii. PANDUIT MINI-COM MODULE - CBX1IW-A (BISCUIT JACK)
- b. BACKBOARD TERMINATION HARDWARE:
 - i. DATA:
 - 1.1.1. PANDUIT 48 PORT ANGLED PATCH PANEL - CPPLA48WBV (FOR DATA CONNECTIONS)
 - ii. FIBER TERMINATION HARDWARE:
 1. PANDUIT Fiber Wall Mount Enclosure - FWM2

4-PORT VOICE/DATA OUTLET STATION CABLE SPECIFICATIONS (ENHANCED CAT6)

MODULAR JACKS FOR D4 OUTLETS

- D4 ► INDICATES:
OUTLET FOR D4 STATION,
(4) 8 PIN STAINLESS STEEL ASSEMBLY (CAT6/568B) EQUAL TO: SIEMON COMPANY KIT #MX-FP-S-06-012

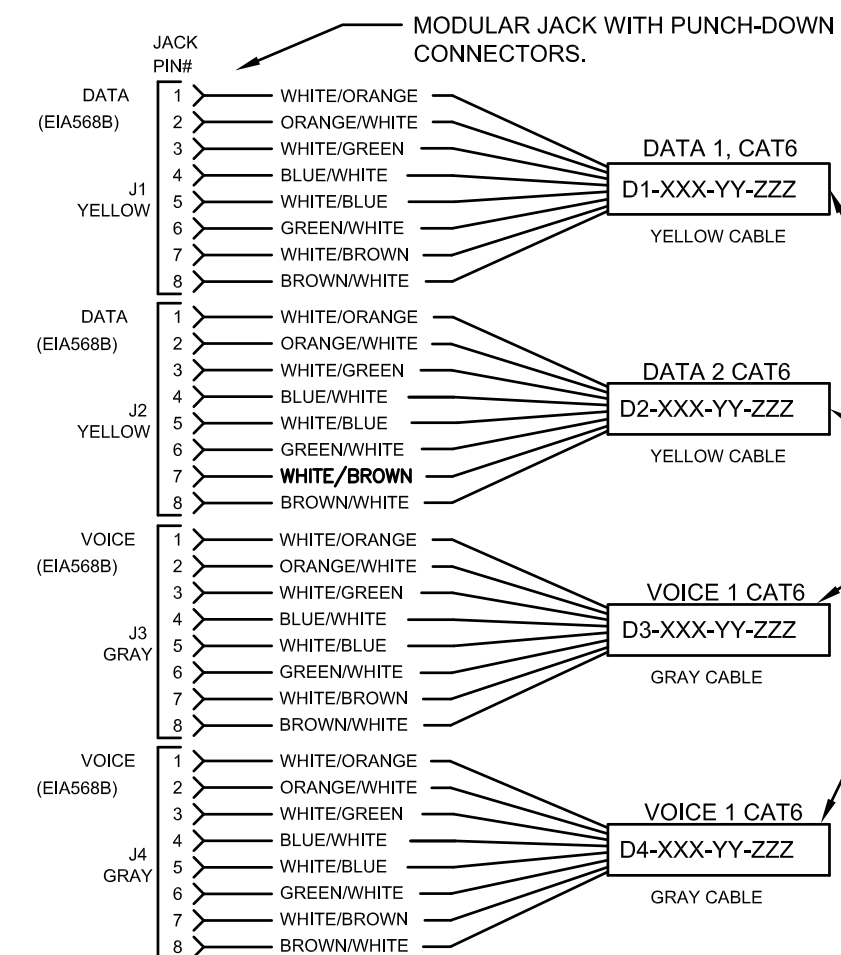
NOTE:
JACKS SHALL BE PROVIDED AND INSTALLED BY COMMUNICATIONS CONTRACTOR.

TYPICAL D4 JACK FRONT VIEW

UNIQUE LABEL XXX-YY-ZZZ

SINGLE GANG DEVICE PLATE MOUNTED ON DOUBLE GANG OUTLET BOX WITH SINGLE GANG ADAPTER SHEET ROCK PLATE (MOUNTED VERTICALLY)

TYPICAL D4 STATION CABLING



NOTES:

1. CONTRACTOR SHALL TEST ALL CABLES TO ENSURE END-TO-END CONTINUITY OF ALL CONDUCTORS IN EACH CABLE. THE JACKS SHALL BE FURNISHED, INSTALLED AND TERMINATED BY COMMUNICATIONS CONTRACTOR. AFTER TERMINATION, CONTRACTOR SHALL TEST FOR CONDUCTOR OPENS, TIP AND RING REVERSAL AND SHORTS, GROUNDS AND CABLE TRANSPORTION. THE CONTRACTOR, AT NO ADDITIONAL COST, SHALL REPLACE ANY CABLES THAT FAIL TO MEET PUBLISHED PERFORMANCE CRITERIA. TEST RESULTS SHALL BE SUBMITTED TO OWNER.

2-PORT VOICE/DATA STATION & 2-PORT WIRELESS ACCESS POINT CABLE SPECIFICATIONS (ENHANCED CAT6)

MODULAR JACKS FOR D2 OUTLET

- D2 ► INDICATES:
OUTLET FOR 2-PORT DATA STATION,
(2) 8 PIN STAINLESS STEEL ASSEMBLY (CAT6/568B) EQUAL TO: SIEMON COMPANY KIT #MX-FP-S-06-006

MODULAR JACKS FOR D2 WIRELESS ACCESS POINT

- WAP/D2 ► INDICATES:
OUTLET FOR WIRELESS ACCESS POINT/DATA STATION,
(2) 8 PIN STAINLESS STEEL ASSEMBLY (CAT6/568B) EQUAL TO: SIEMON COMPANY KIT #MX-FP-S-06-008

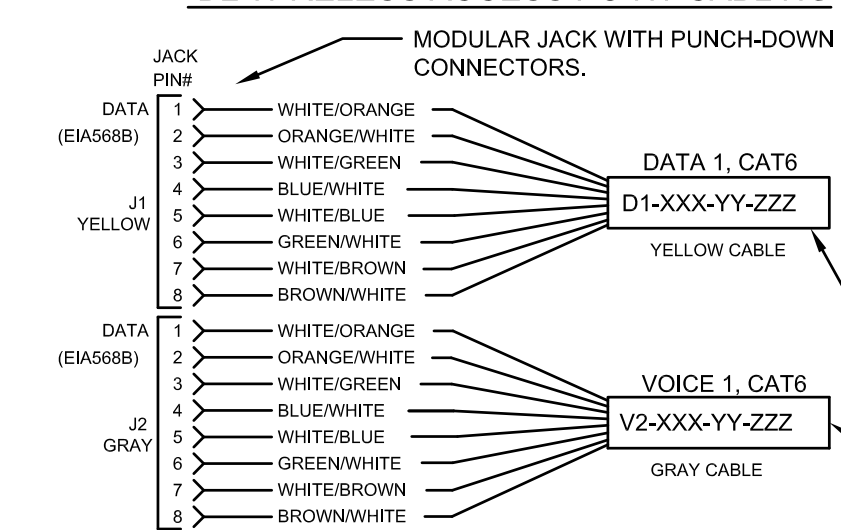
NOTE:
JACKS SHALL BE PROVIDED AND INSTALLED BY COMMUNICATIONS CONTRACTOR.

TYPICAL D2 & WAP/D2 JACK FRONT VIEW

UNIQUE LABEL XXX-YY-ZZZ

SINGLE GANG DEVICE PLATE MOUNTED ON DOUBLE GANG OUTLET BOX WITH SINGLE GANG ADAPTER SHEET ROCK PLATE (MOUNTED VERTICALLY)

TYPICAL D2 STATION & D2 WIRELESS ACCESS POINT CABLING



NOTES:

1. CONTRACTOR SHALL TEST ALL CABLES TO ENSURE END-TO-END CONTINUITY OF ALL CONDUCTORS IN EACH CABLE. THE JACKS SHALL BE FURNISHED, INSTALLED AND TERMINATED BY COMMUNICATIONS CONTRACTOR. AFTER TERMINATION, CONTRACTOR SHALL TEST FOR CONDUCTOR OPENS, TIP AND RING REVERSAL AND SHORTS, GROUNDS AND CABLE TRANSPORTION. THE CONTRACTOR, AT NO ADDITIONAL COST, SHALL REPLACE ANY CABLES THAT FAIL TO MEET PUBLISHED PERFORMANCE CRITERIA. TEST RESULTS SHALL BE SUBMITTED TO OWNER.

CABLE FOR OUTLETS

1. THE FOLLOWING CABLES SHALL BE USED FOR ALL DATA STATIONS:

NON-PLENUM AREAS:
GENERAL 4 PAIR CAT6 PT, #713390*

DATA CABLE COLOR YELLOW
VOICE CABLE COLOR GRAY

PLENUM AREAS:
GENERAL 4 PAIR CAT6 PT, #713190*

DATA CABLE COLOR YELLOW
VOICE CABLE COLOR GRAY

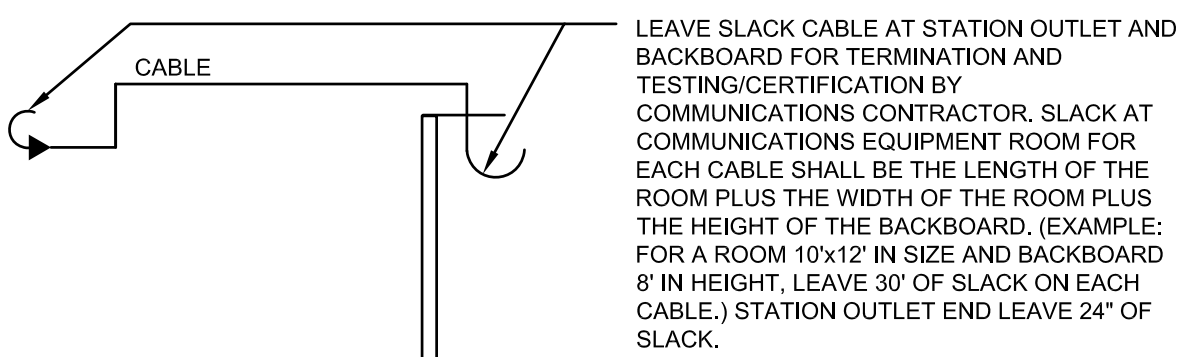
2. THE CONTRACTOR SHALL IDENTIFY AND STENCIL ALL STATION CABLES AS FOLLOWS:

ALL STATION CABLES SHALL BE DESIGNATED WITH THE TYPE AND UNIQUE JACK NUMBER (SEE BELOW) NEATLY WITH A PERMANENT MARKER OR WITH A 3M SCOTCHCODE IDENTIFICATION SYSTEM INDICATING LETTERS AND NUMBERS.
ZZZ = UNIQUE JACK #

3. PROVIDE 4 PAIR DATA FROM EACH OUTLET TO THE DESIGNATED COMMUNICATION BACKBOARD. CABLE SHALL BE 23 A.W.G. AND BE COLOR CODED AS FOLLOWS:

4 PAIR - WHITE/BLUE, WHITE/ORANGE, WHITE/GREEN, WHITE/BROWN

TYPICAL OUTLET CABLING
SEE PLANS FOR CONDUIT LAYOUT



ARCHITECT OF RECORD:

WILLIAMS
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BIRMINGHAM, ALABAMA 35203

ARCHITECTURE . INTERIORS . PLANNING

PROJECT/PROJECT NO:

25-080.00



CONSULTANT INFORMATION:

PROJECT NAME:

VESTAVIA HILLS FIRE
STATION NO. 4
EXPANSION

PROJECT ADDRESS:

13041 LIBERTY PKWY, VESTAVIA
HILLS, AL 35242

CLIENT NAME:

THE CITY OF
VESTAVIA HILLS

CLIENT/PROJECT NO:

00-0000

ANS/PROJECT NO:

XX-XXXX

KEY PLAN:

ISSUE STATUS:

100% BID DOCUMENTS

ISSUE DATE:

June 12, 2026

REVISIONS:

NO. DATE DESCRIPTION

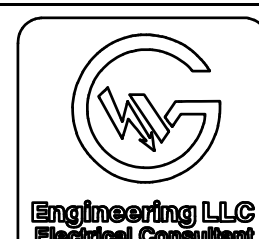
1 08/11/2026 Addendum #2

DRAWING TITLE:

DETAILS

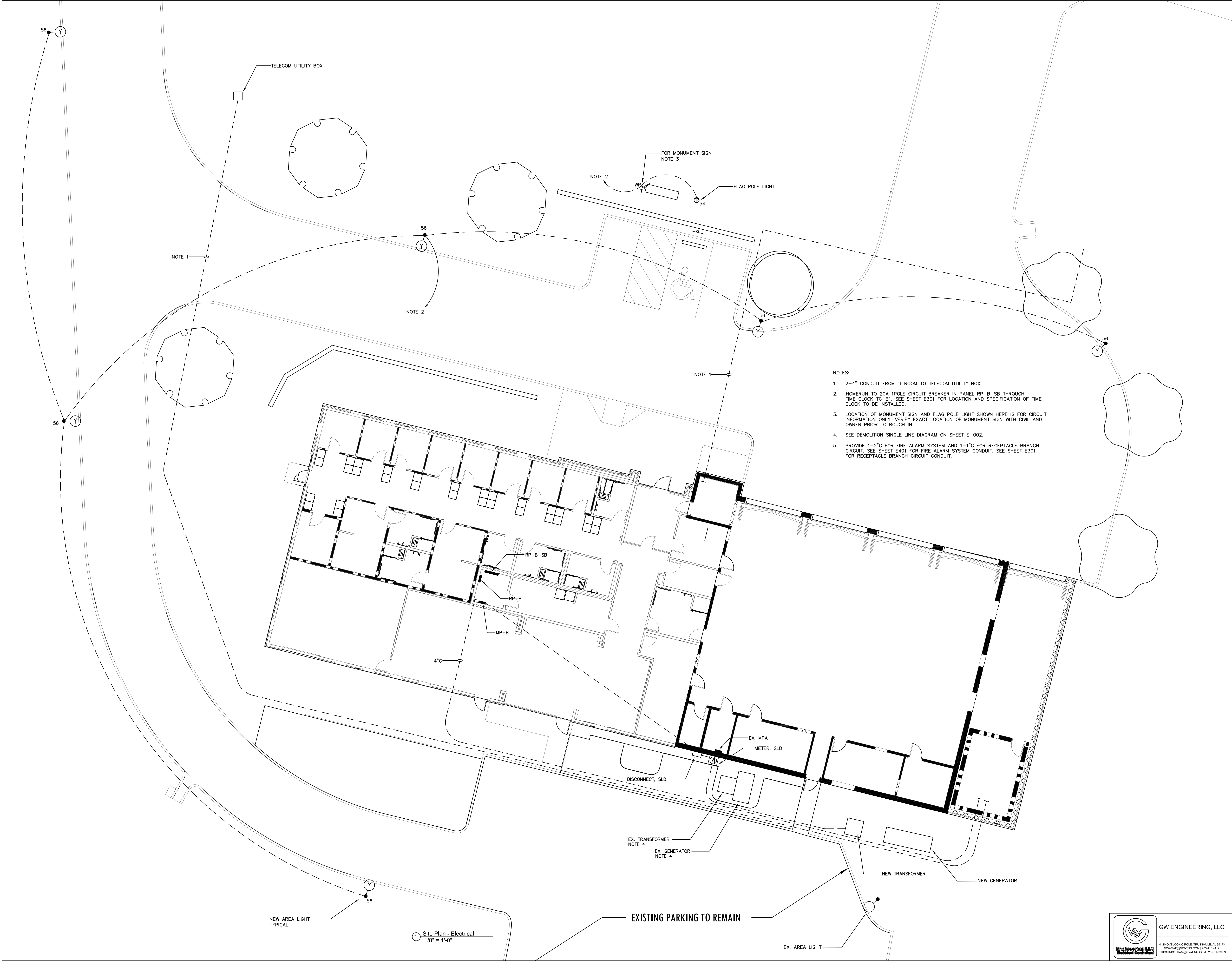
SHEET NUMBER:

E-004



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ARCHITECTURE · INTERIORS · PLANNING

ARCHITECTS PROJECT NO:

25-080.00

PROFESSIONAL SEAL

ALABAMA
LICENSED
ELECTRICAL
ENGINEER
No. 38353
DUSTON M. WALKER
8/11/26

CONSULTANT INFORMATION:

PROJECT NAME:

VESTAVIA HILLS FIRE
STATION No. 4
EXPANSION

PROJECT ADDRESS:

13041 LIBERTY PKWY, VESTAVIA
HILLS, AL 35242

CLIENT NAME:

THE CITY OF
VESTAVIA HILLS

CLIENT PROJECT NO:

00-0000

ARCH PROJECT NO:

XX-XXXX

KEY PLAN:

ISSUE STATUS:

100% BID DOCUMENTS

ISSUE DATE:

June 12, 2026

REVISIONS:

NO.	DATE	DESCRIPTION
1	06/12/2026	ADDENDUM #2

DRAWING TITLE:

SITE PLAN - ELECTRICAL

SHEET NUMBER:

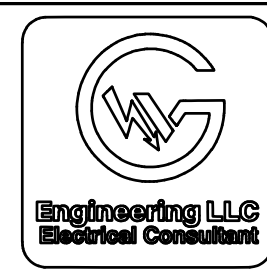
E-005

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Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	1.0 fc	4.0 fc	0.0 fc	N/A	N/A

1 Site Plan - Photometric
1" = 10'-0"



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SHEET NUMBER:

E-006



SITE PLAN -
PHOTOMETRIC

DRAWING TITLE:

ISSUE DATE:
June 12, 2026

ISSUE STATUS:
100% BID DOCUMENTS

KEY PLAN:

CLIENT PROJECT NO:
00-0000
AWJ PROJECT NO:
XX-XXXX

THE CITY OF
VESTAVIA HILLS

PROJECT ADDRESS:
13041 LIBERTY PKWY, VESTAVIA
HILLS, AL 35242

PROJECT NAME:
VESTAVIA HILLS FIRE
STATION No. 4
EXPANSION

CONSULTANT INFORMATION:



ARCHITECTS PROJECT NO:
25-080.00

ARCHITECTURE, INTERIORS, PLANNING

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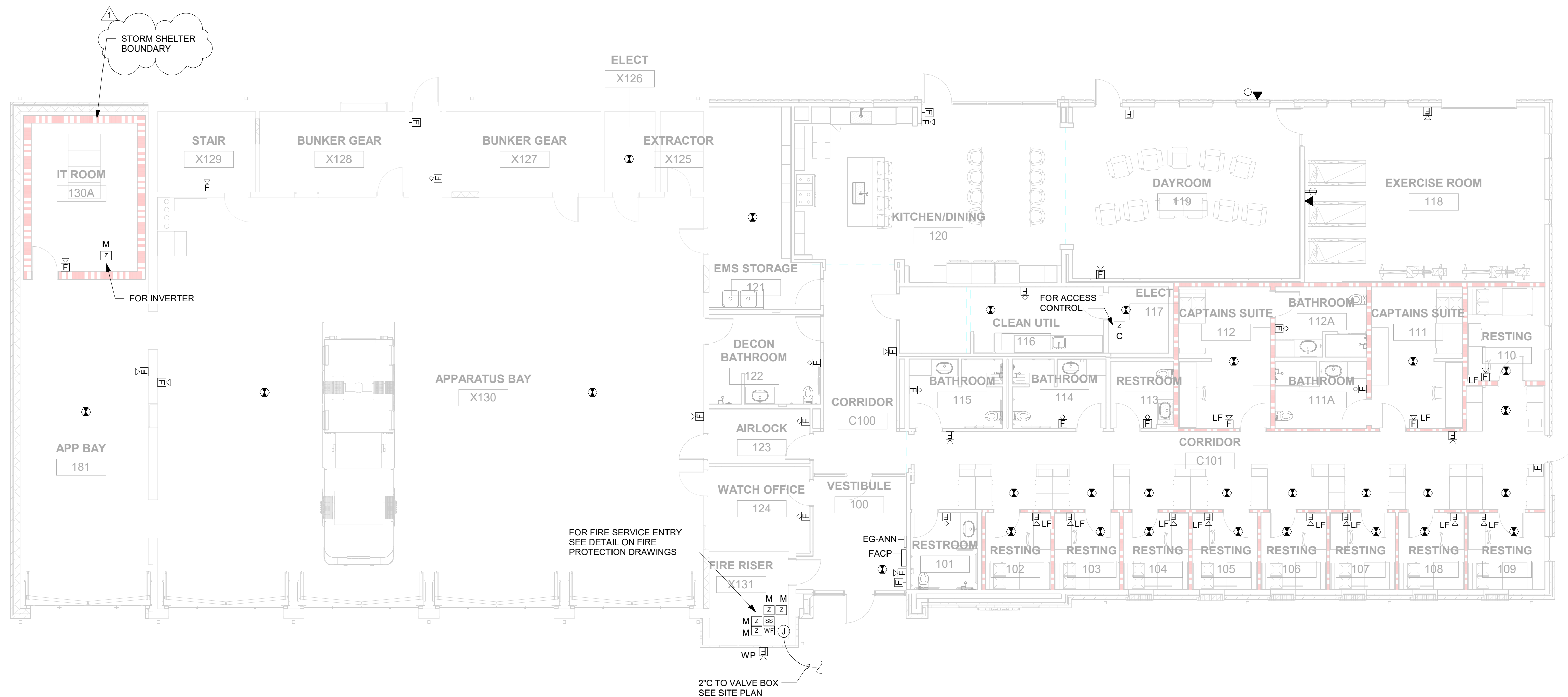


GENERAL NOTES:

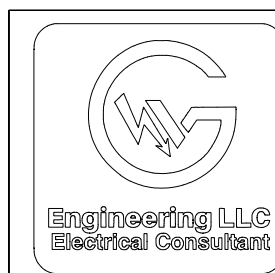
- COORDINATE LOCATIONS AND QUANTITIES OF FIRE PROTECTION, FIRE ALARM MONITORING DEVICES WITH FIRE PROTECTION SHOP DRAWINGS.

FOR DRY PIPE FIRE SPRINKLER
SYSTEM, SEE DETAIL ON FIRE
PROTECTION DRAWINGS

2 FLOOR PLAN LEVEL 2 - FIRE ALARM
1/4" = 1'-0"

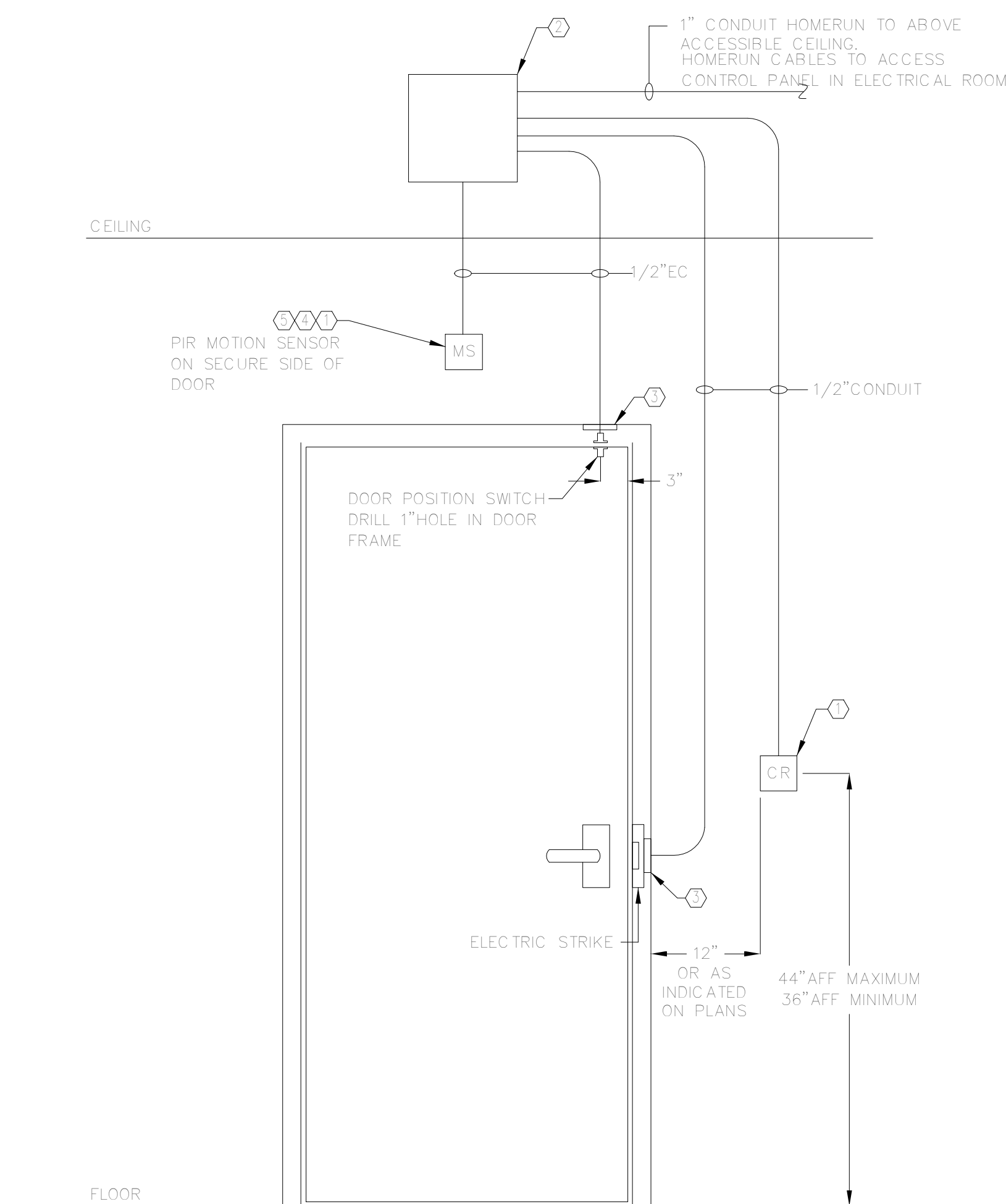
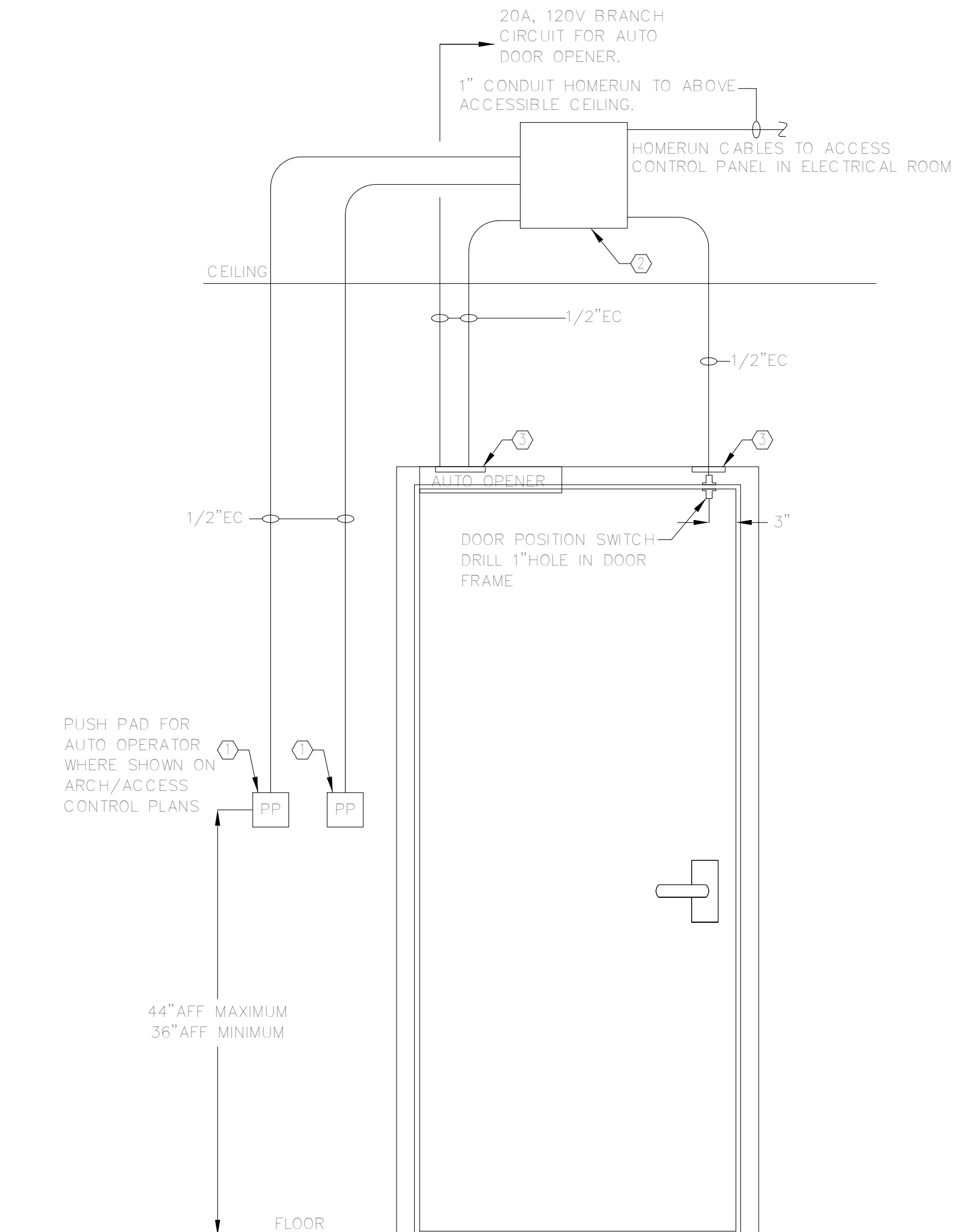
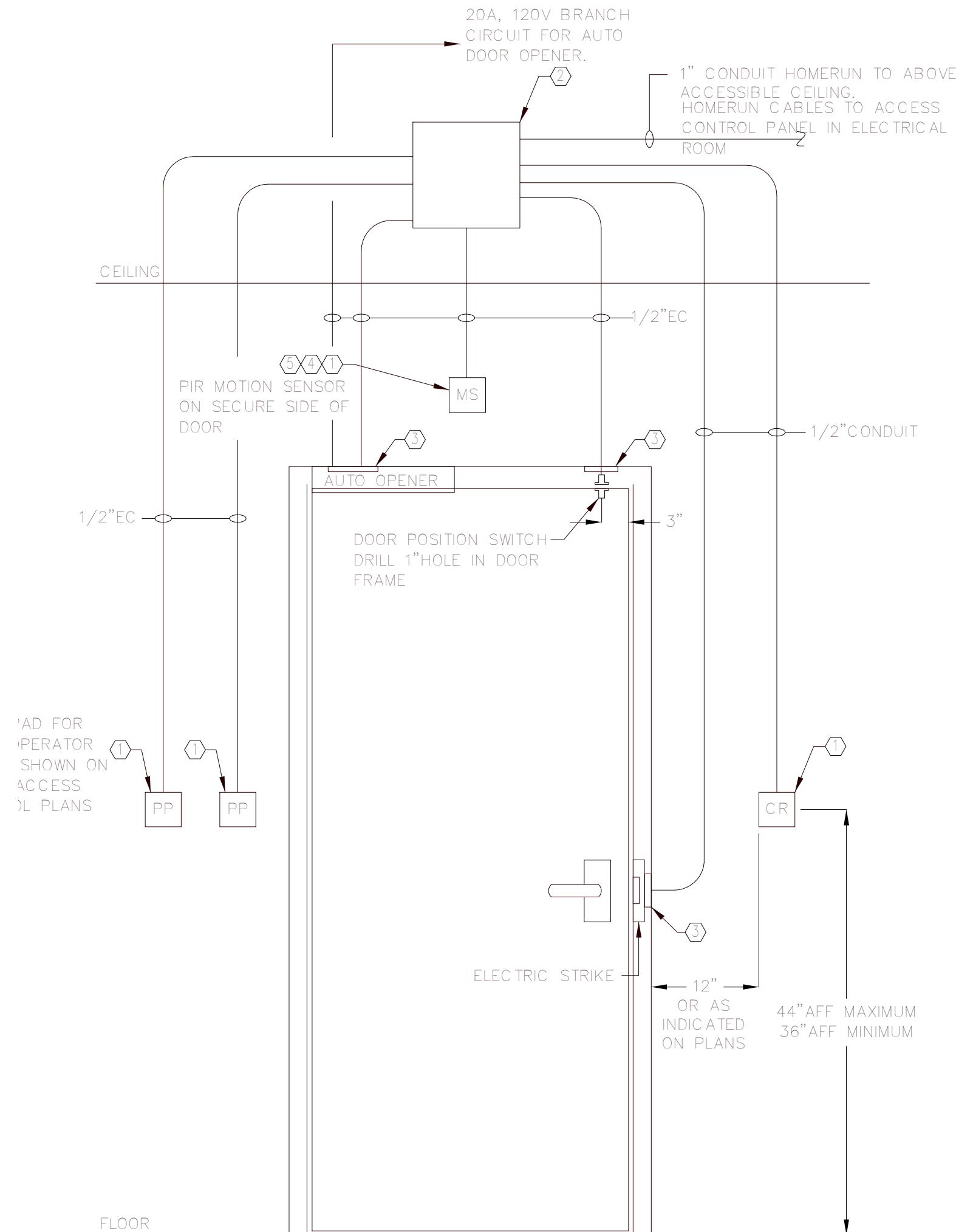


1 FLOOR PLAN LEVEL 1 - FIRE ALARM
1/8" = 1'-0"



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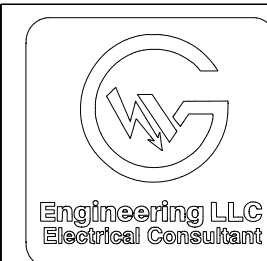
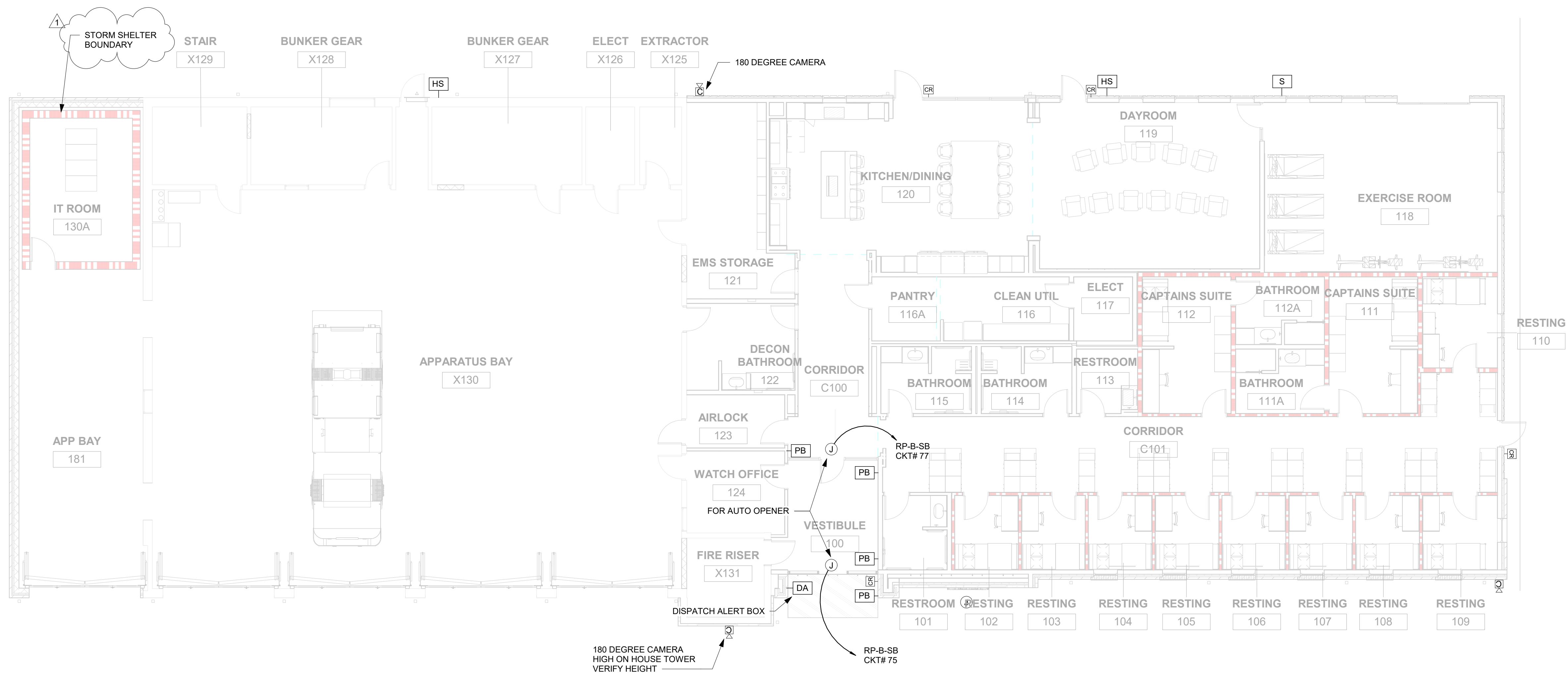


GENERAL NOTES:

1. REFER TO DOOR HARDWARE SCHEDULE FOR QUANTITY AND TYPES OF DEVICES FOR EACH CONTROLLED DOOR.
2. LOCATE JUNCTION BOXES ON THE SECURED SIDE OF THE DOOR OPPOSITE SIDE OF THE CARD READER LOCATION.
3. LOCATE CARD READERS JUNCTION BOX AS SHOWN ON PLANS.
4. COORDINATE AUTO OPERATOR PUSH PAD QUANTITY AND LOCATION WITH ARCHITECTURAL PLANS. INTERFACE DOOR LOCKING DEVICES WITH AUTO OPERATORS.
5. ALL CONDUIT SHALL BE CONCEALED, UNLESS NOTED OTHERWISE.
6. PROVIDE ADDITIONAL CONDUIT WHERE INDICATED ON PLAN DRAWINGS.
7. DETAIL SHOWN FOR REFERENCE ONLY. COORDINATE REQUIREMENT AT EACH DOOR WITH ACCESS CONTROL VENDOR.

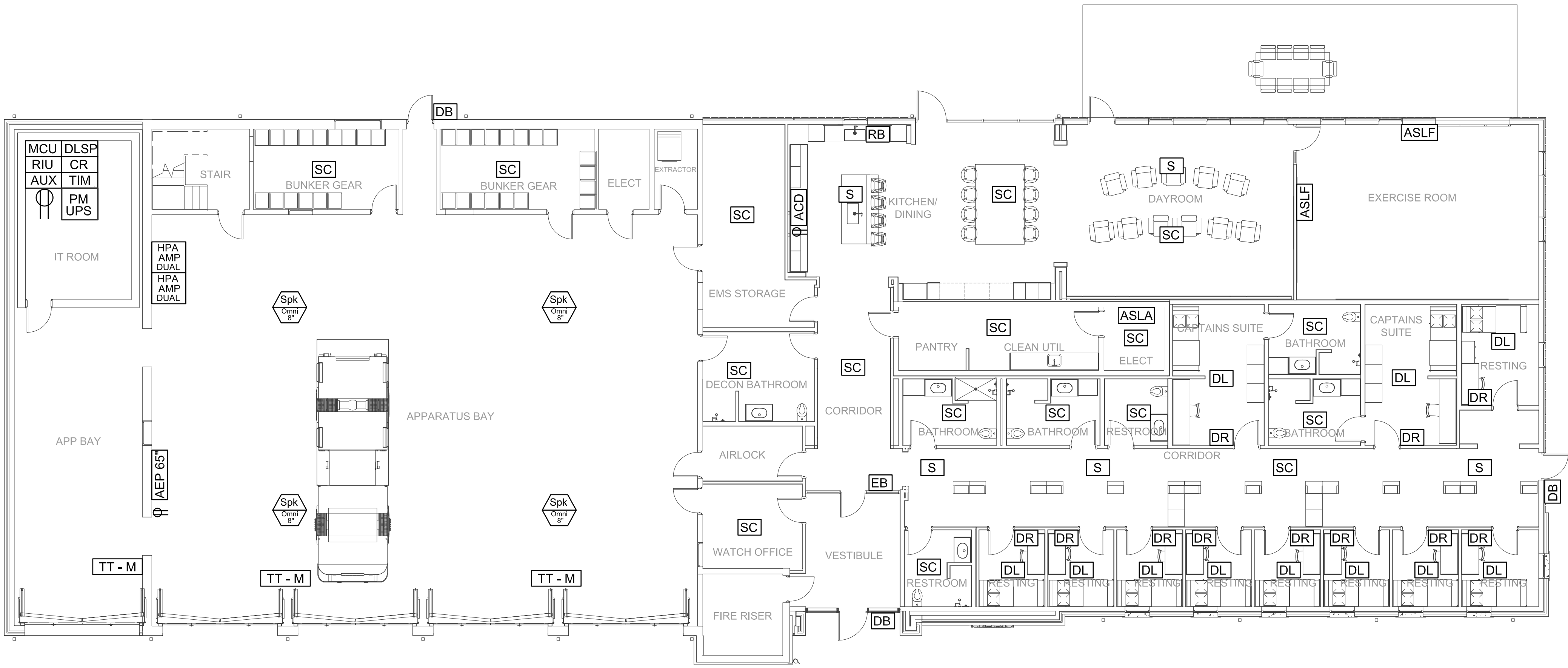
KEYED NOTES:

1. PROVIDE DOUBLE GANG BACKBOX WITH SINGLE GANG PLASTER RING. FOR SURFACE INSTALLATIONS PROVIDE WIREMOLD 500/700 SERIES DEVICES BOX AND RACEWAY.
2. PROVIDE 6"x6"x4" NEMA 1 HOFFMAN BOX WITH COVER. MOUNT ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR.
3. PROVIDE MORTAR GUARD.
4. PROVIDE ADAPTER PLATE FOR MOUNTING MOTION SENSOR TO BACKBOX.
5. AT SHEETROCK WALL STUB CONDUIT INTO WALL TO 4" BELOW CEILING. FISH WIRE TO SURFACE MOUNTED MOTION SENSOR.



GENERAL NOTE:

1. ALERT SYSTEM DEVICES AND EQUIPMENT LAYOUT PLAN DRAWING IS SHOWN HERE FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR SHALL PROVIDE BOXES, RACEWAY AND POWER REQUIRED FOR INSTALLATION OF SYSTEM BY OWNER.
2. ELECTRICAL CONTRACTOR SHALL REVIEW ALERT SYSTEM SHOP DRAWINGS FOR COMPLETE INFORMATION PRIOR TO BID AND ROUGH IN.



FLOOR PLAN LEVEL 1 - ALERT SYSTEM
① DEVICE LAYOUT PLAN
N.T.S.

FIRST-IN FIRE
STATION ALERTING
SYMBOL LEGEND

MCU	MASTER CONTROL UNIT
DLSP	DATA LINE SURGE PROTECTOR
CR	CONTROL REMOTE
TIM	TELEPHONE INTERFACE MODULE
RIU	RADIO ISOLATION UNIT
AUX	AUXILIARY MODULE
PM UPS	POWER MODULE WITH UPS-BLACK (REQUIRED DEDICATED CIRCUIT 120V)
SC	SATELLIGHT CONTROLLER
S	SATELLIGHT
ACD	APPLIANCE CONTROL DEVICE
RB	APPLIANCE RESET BUTTON
ASLF	ALERTING STROBE LIGHT FIXTURE - IN CONJUNCTION WITH ASLA
ASLA	ALERTING STROBE LIGHT ADAPTER
DR	DORM REMOTE
DL	DORM LIGHT
DB	DOORBELL BUTTON
EB	EMERGENCY BUTTON
Spk	8" OMNI DIRECTIONAL SPEAKER
HPA AMP DUAL	HIGH-POWERED AMPLIFIER MODULE DUAL
TT - M	TURNOUT TIMER MEDIUM
AEP 65	ALERTING END POINT 65" (120V POWER REQUIRED)

GENERAL NOTES

1. DEVICES ARE TYPICAL AND FOR REFERENCE ONLY.
2. ALL BACK BOXES & CONDUITS ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE SPECIFIED FOR NEW CONSTRUCTION.
3. DEVICES LOCATED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACKBOXES.
4. DEVICES LOCATED IN ACOUSTICAL CEILINGS REQUIRE ACOUSTICAL WESTNET MOUNTING KIT (SSATKIT-A).
5. DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE HOFFMAN BRAND 8X10X4 BACKBOX.
6. DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE APPROPRIATE WESTNET MOUNTING KIT (SURFACE MOUNT OR FLUSH MOUNT) FOR NEW CONSTRUCTION.
7. LOCATIONS OF DEVICES DETERMINED AT INSTALLATION BY INSTALLER FOR NEW CONSTRUCTION.
8. SEE ARCHITECTURAL SPECIFICATION FOR ALL ROUGH-IN AND INSTALLATION DETAILS FOR NEW CONSTRUCTION.
9. INSTALLER TO VERIFY WALL AND CEILING TYPE TO DETERMINE NEED FOR FLUSH OR SURFACE MOUNT INSTALLATION OF EQUIPMENT SPECIFIED FOR NEW CONSTRUCTION.
10. ALL WIRING AND DEVICES TO BE INSTALLED BY WESTNET.
11. ALL PENETRATION TO EXTERIOR DEVICES MUST BE WEATHERPROOF AND FIRE CAULKED FOR CONSTRUCTION BY OTHERS.
12. DEVICES LOCATED IN BATHROOMS/SHOWER AREAS MUST BE VISIBLE FROM SHOWERS. INSTALLER TO FIELD VERIFY DEVICE LOCATION. (TYPICAL)
13. ALL DEVICES MUST BE KEPT CLEAR OF OBSTRUCTIONS & CEILING FAN BLADES.
14. IN ACOUSTICAL CEILING (T-BAR), WIRE CABLING IS FREE WIRE (NOT IN CONDUIT).
15. IN GYPSUM BOARD CEILING (SHEET ROCK / HARD LID), WIRE CABLING IN IN 3/4" CONDUIT UNLESS CONDUIT SIZE OTHERWISE NOTED.
16. IN EXPOSED AREAS ONLY 8X10X4 HOFFMAN BACK BOX MOUNTED AT +10'-0" A.F.F. MAX. WITH OPEN FACE DOWN IN CENTER OF ROOM WITH 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. KEEP CLEAR OF OBSTRUCTIONS.
17. A 5 OHM EARTH GROUND MUST BE CONNECTED TO THE RADIO ISOLATION UNIT IN THE COMMUNICATION RACK.
18. THE RADIO RECEIVING THE DISPATCH INFORMATION SHALL BE LOCATED WITHIN 6'-0" FT. OF THE RADIO ISOLATION UNIT.
19. INSTALLER TO PROVIDE ONE ADDITIONAL UNCONNECTED BLUE CAT5 CABLE WITH RJ45 CONNECTORS ON BOTH ENDS BETWEEN THE MCU LOCATION AND EACH ALERTING END POINT FOR NETWORK CONNECTIVITY.

ARCHITECT OF RECORD:

WILLIAMS
BLACKSTOCK
ARCHITECTS

2204 FIRST AVENUE SOUTH | SUITE 200
BIRMINGHAM, ALABAMA 35233

ARCHITECTURE, INTERIORS, PLANNING

PROJECT/PROJECT NO.

25-080.00



CONSULTANT INFORMATION:

CLIENT NAME:

VESTAVIA HILLS FIRE
STATION NO. 4
EXPANSION

PROJECT ADDRESS:

13041 LIBERTY PKWY, VESTAVIA
HILLS, AL 35242

CLIENT NAME:

THE CITY OF
VESTAVIA HILLS

CLIENT PROJECT NO.

00-0000

AKU PROJECT NO.

XX-XXXX

KEY PLAN:

ISSUE STATUS:

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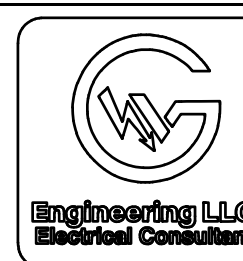
NO.	DATE	DESCRIPTION
1	08/12/2026	Addendum #2

DRAWING TITLE:

FLOOR PLAN - ALERT
SYSTEM DEVICE LAYOUT
PLAN

SHEET NUMBER:

E-602



GW ENGINEERING, LLC

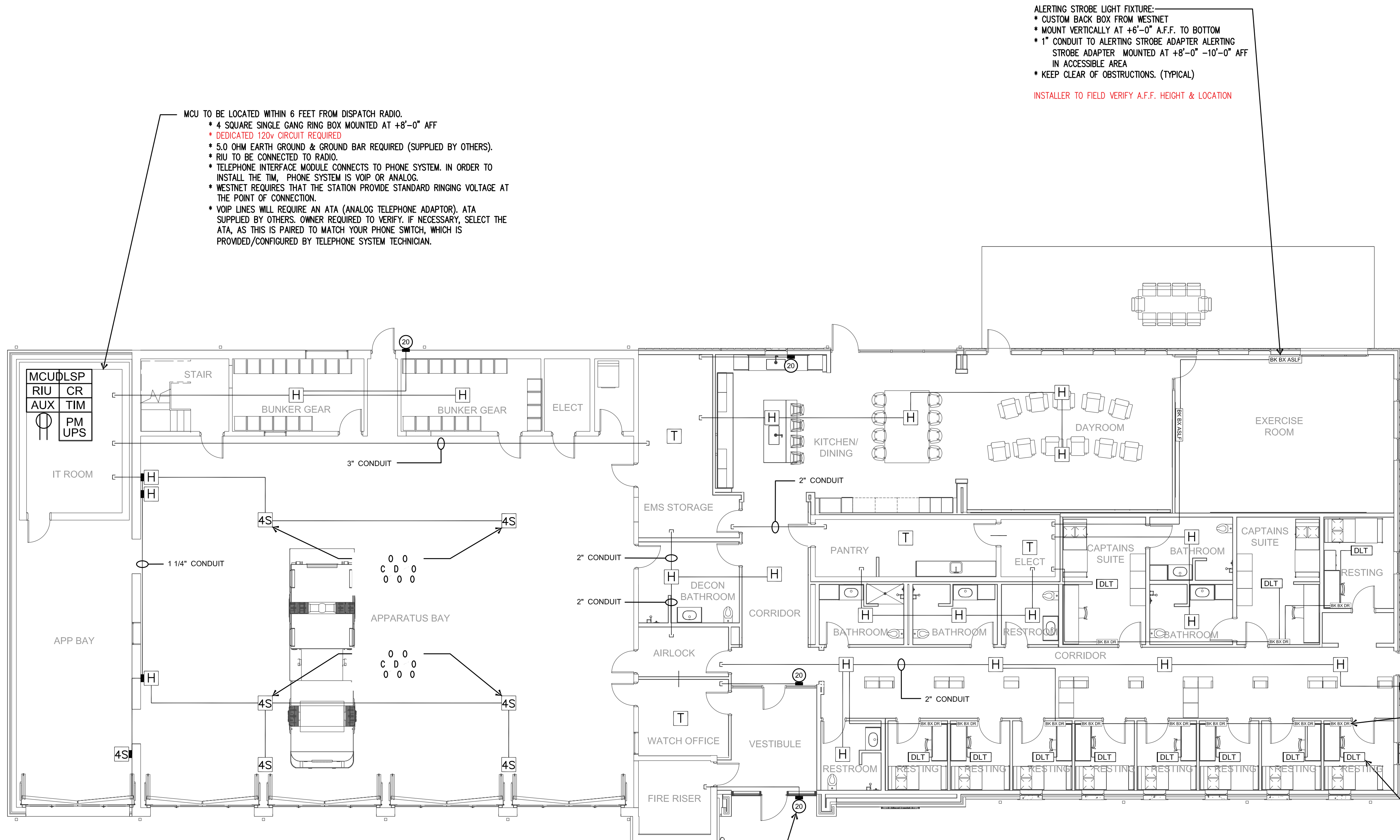
4120 DWELOK CIRCLE, TRUSSVILLE, AL 35173
GWENGS@GWENGS.COM | 205.414.1112
THO@GOTHAM@GWENGS.COM | 205.317.3969

GENERAL NOTE:

- ELECTRICAL CONTRACTOR SHALL PROVIDE BOXES, RACEWAY AND POWER REQUIRED FOR INSTALLATION OF SYSTEM BY OWNER.
- ELECTRICAL CONTRACTOR SHALL REVIEW ALERT SYSTEM SHOP DRAWINGS FOR COMPLETE INFORMATION PRIOR TO BID AND ROUGH IN.

NOTE:

- CONDUIT ROUTING IS FOR REFERENCE ONLY
- CONDUIT INSTALLER PLACE PULL BOXES AS NEEDED
- CONDUIT BENDS NOT TO EXCEED 360 DEGREES
- UNDERGROUND CONDUITS NOT PERMITTED



FIRST-IN FIRE
STATION ALERTING
SYMBOL LEGEND

MCU	MASTER CONTROL UNIT
DLSP	DATA LINE SURGE PROTECTOR
CR	CONTROL REMOTE
TIM	TELEPHONE INTERFACE MODULE
RIU	RADIO ISOLATION UNIT
AUX	AUXILIARY MODULE
PM UPS	POWER MODULE WITH UPS-BLACK (REQUIRED DEDICATED CIRCUIT 120V)
BK BX ASLF	CUSTOM BACKBOX PROVIDED BY WESTNET
BK BX DR	DORM REMOTE BACKBOX PROVIDED WESTNET
DLT	DORM LITE ACOUSTIC CEILING MOUNT KIT
H	8x10x4 HOFFMAN BACKBOX
T	ACOUSTIC CEILING KIT
J	JBOX
4S	4" SQUARE BOX
	LOCATION OF DEVICE WALL MOUNTED

GENERAL NOTES

- DEVICES ARE TYPICAL AND FOR REFERENCE ONLY.
- ALL BACK BOXES & CONDUITS ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE SPECIFIED FOR NEW CONSTRUCTION.
- DEVICES LOCATED IN ACOUSTICAL CEILINGS DO NOT REQUIRE BACKBOXES
- DEVICES LOCATED IN ACOUSTICAL CEILINGS REQUIRE ACOUSTICAL WESTNET MOUNTING KIT (SSATKIT-A)
- DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE HOFFMAN BRAND 8X10X4 BACKBOX
- DEVICES ONLY LOCATED IN SHEETROCK OR EXPOSED CEILINGS REQUIRE APPROPRIATE WESTNET MOUNTING KIT (SURFACE MOUNT OR FLUSH MOUNT) FOR NEW CONSTRUCTION.
- LOCATIONS OF DEVICES DETERMINED AT INSTALLATION BY INSTALLER FOR NEW CONSTRUCTION.
- SEE ARCHITECTURAL SPECIFICATION FOR ALL ROUGH-IN AND INSTALLATION DETAILS FOR NEW CONSTRUCTION.
- INSTALLER TO VERIFY WALL AND CEILING TYPE TO DETERMINE NEED FOR FLUSH OR SURFACE MOUNT INSTALLATION OF EQUIPMENT SPECIFIED FOR NEW CONSTRUCTION.
- ALL WIRING AND DEVICES TO BE INSTALLED BY WESTNET.
- ALL PENETRATION TO EXTERIOR DEVICES MUST BE WEATHERPROOF AND FIRE CAULKED FOR CONSTRUCTION BY OTHERS.
- DEVICES LOCATED IN BATHROOM/SHOWER AREAS MUST BE VISIBLE FROM SHOWERS. INSTALLER TO FIELD VERIFY DEVICE LOCATION. (TYPICAL)
- ALL DEVICES MUST BE KEPT CLEAR OF OBSTRUCTIONS & CEILING FAN BLADES.
- IN ACOUSTICAL CEILING (T-BAR), WIRE CABLEING IS FREE WIRE (NOT IN CONDUIT).
- IN GYPSUM BOARD CEILING (SHEET ROCK / HARD LID), WIRE CABLEING IN 3/4" CONDUIT UNLESS CONDUIT SIZE OTHERWISE NOTED.
- IN EXPOSED AREAS ONLY 8X10X4 HOFFMAN BACK BOX MOUNTED AT +10'-0" A.F.F. MAX. WITH OPEN FACE DOWN IN CENTER OF ROOM WITH 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. KEEP CLEAR OF OBSTRUCTIONS.
- A 5 OHM EARTH GROUND MUST BE CONNECTED TO THE RADIO ISOLATION UNIT IN THE COMMUNICATION RACK.
- THE RADIO RECEIVING THE DISPATCH INFORMATION SHALL BE LOCATED WITHIN 6'-0" FT. OF THE RADIO ISOLATION UNIT.
- INSTALLER TO PROVIDE ONE ADDITIONAL UNCONNECTED BLUE CAT5 CABLE WITH RJ45 CONNECTORS ON BOTH ENDS BETWEEN THE MCU LOCATION AND EACH ALERTING END POINT FOR NETWORK CONNECTIVITY.
- ALL BUTTONS AND SWITCHES
 - * 4 SQUARE DEEP SINGLE GANG RING BOX
 - * MOUNTED +48" A.F.F.
 - * 6" - 12" FROM DOOR FRAME
 - * 3 /4" CONDUIT STUB UP ABOVE CEILING TO ACCESSIBLE CEILING SPACE.
 - * KEEP CLEAR OF OBSTRUCTIONS (TYPICAL)
 - * 3/4" CONDUIT TO MCU LOCATION
- ACD
 - * LOCATED WITHIN 24" OF THE COOKTOP
 - * 4 SQUARE DEEP SINGLE GANG RING BOX
 - * 3 /4" CONDUIT FROM STOVE RESET BUTTON TO ACD. ACD TO BE IN AN ACCESSIBLE CEILING SPACE. RESET BUTTON FOR BBQ AT 48" AFF. 3/4" CONDUIT FROM BBQ TO ACD.
 - * KEEP CLEAR OF OBSTRUCTIONS (TYPICAL)

ARCHITECT OF RECORD:

WILLIAMS
BLACKSTOCK
ARCHITECTS

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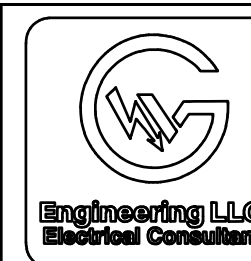
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FLOOR PLAN - ALERT
SYSTEM CONDUIT
LAYOUT PLAN

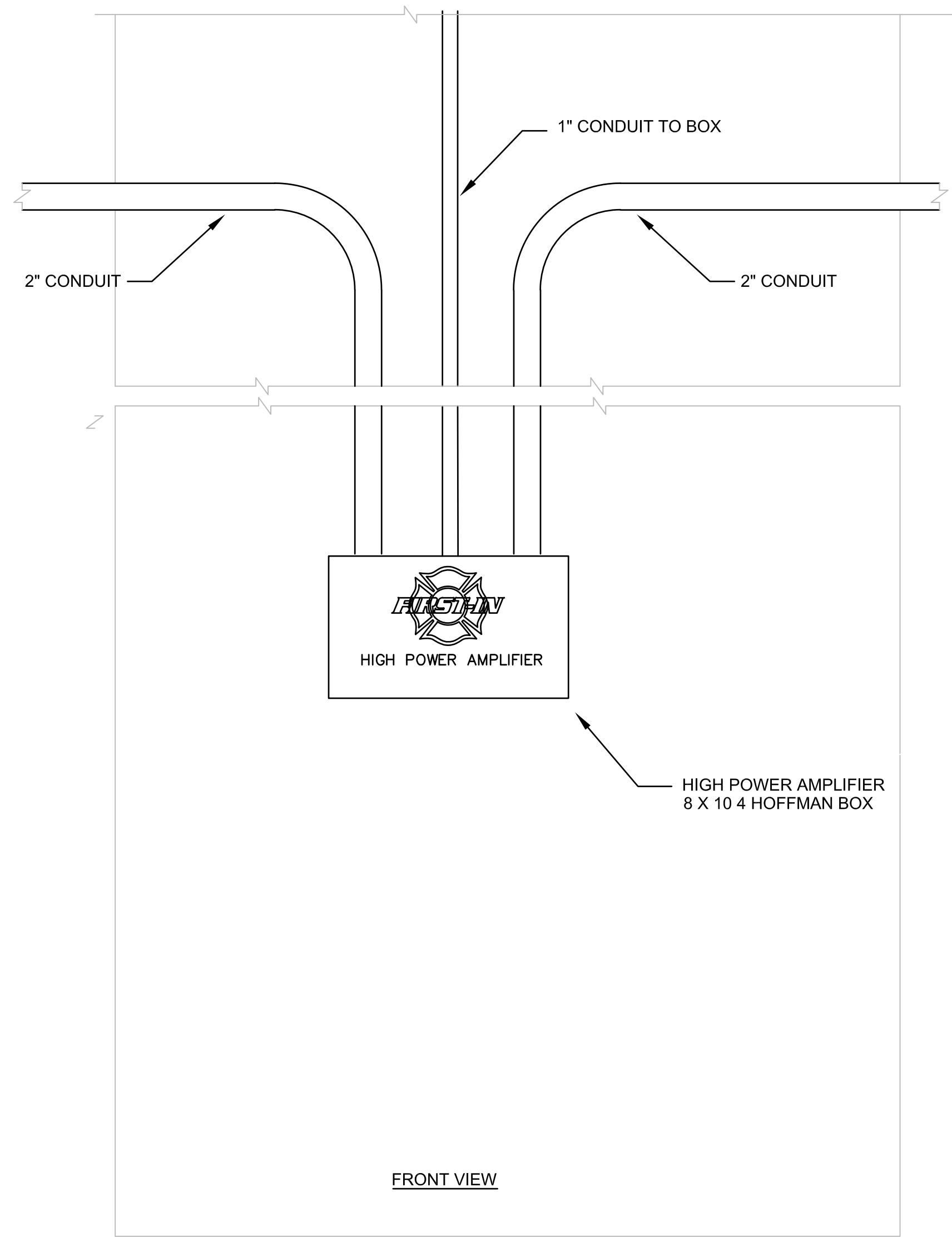
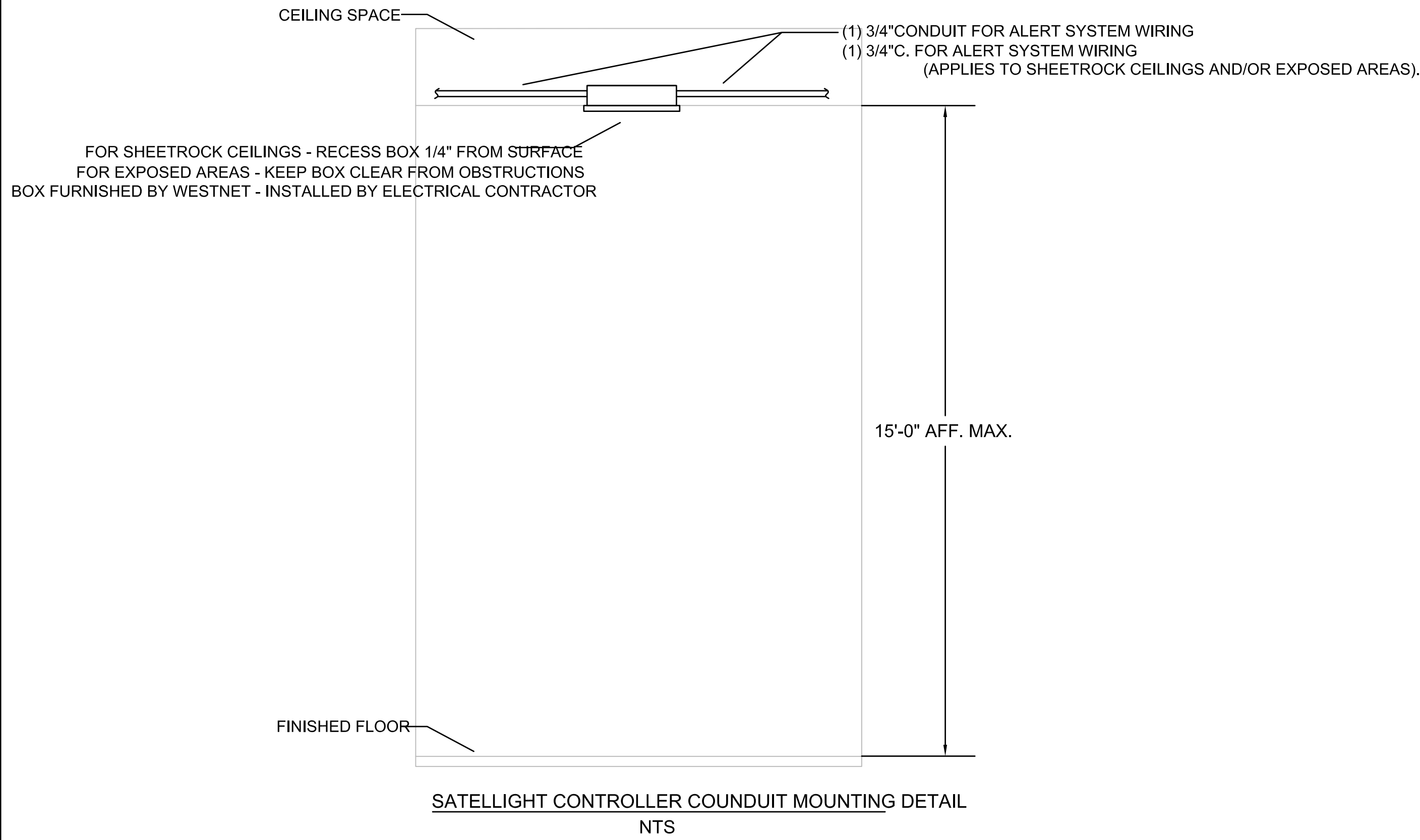
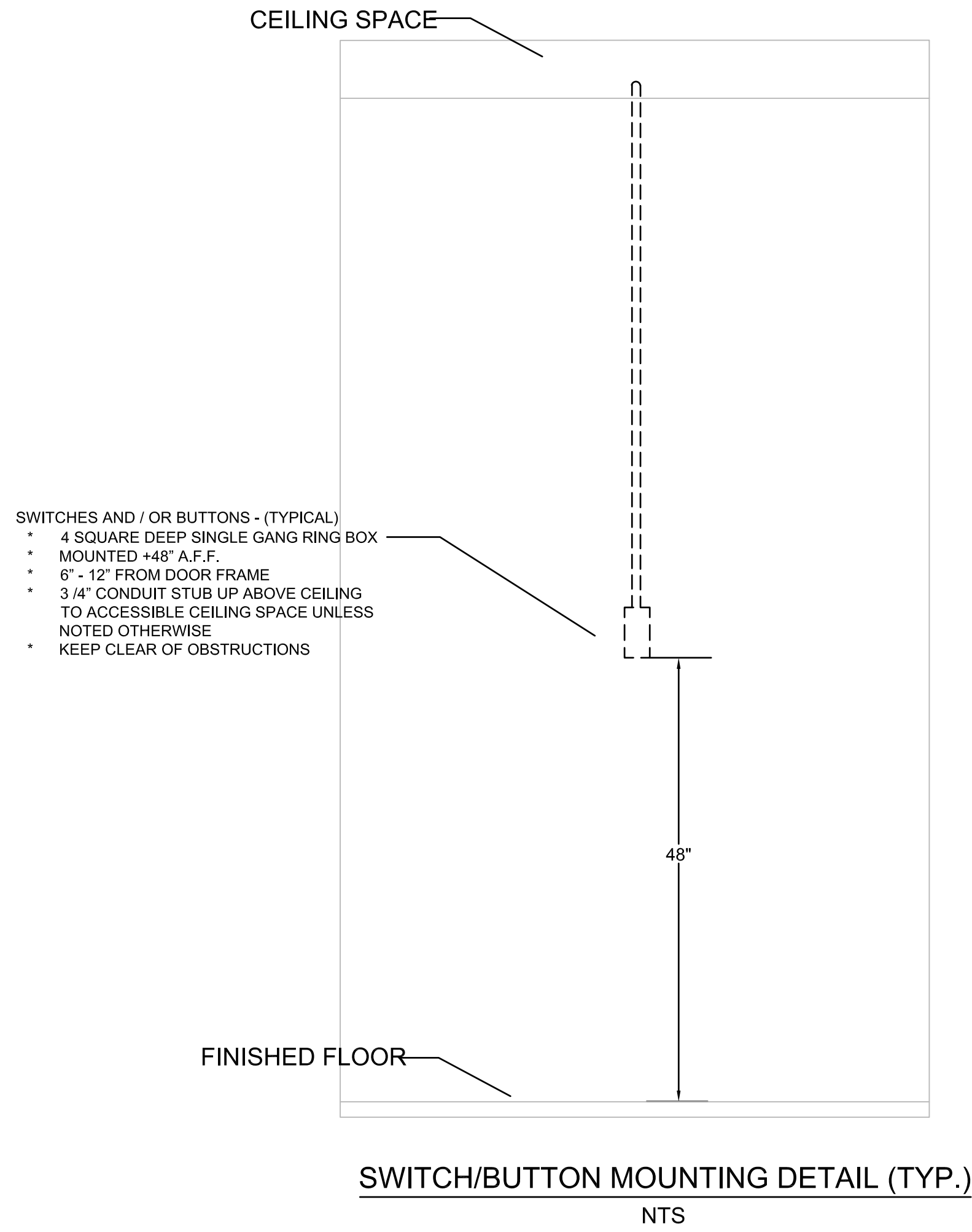
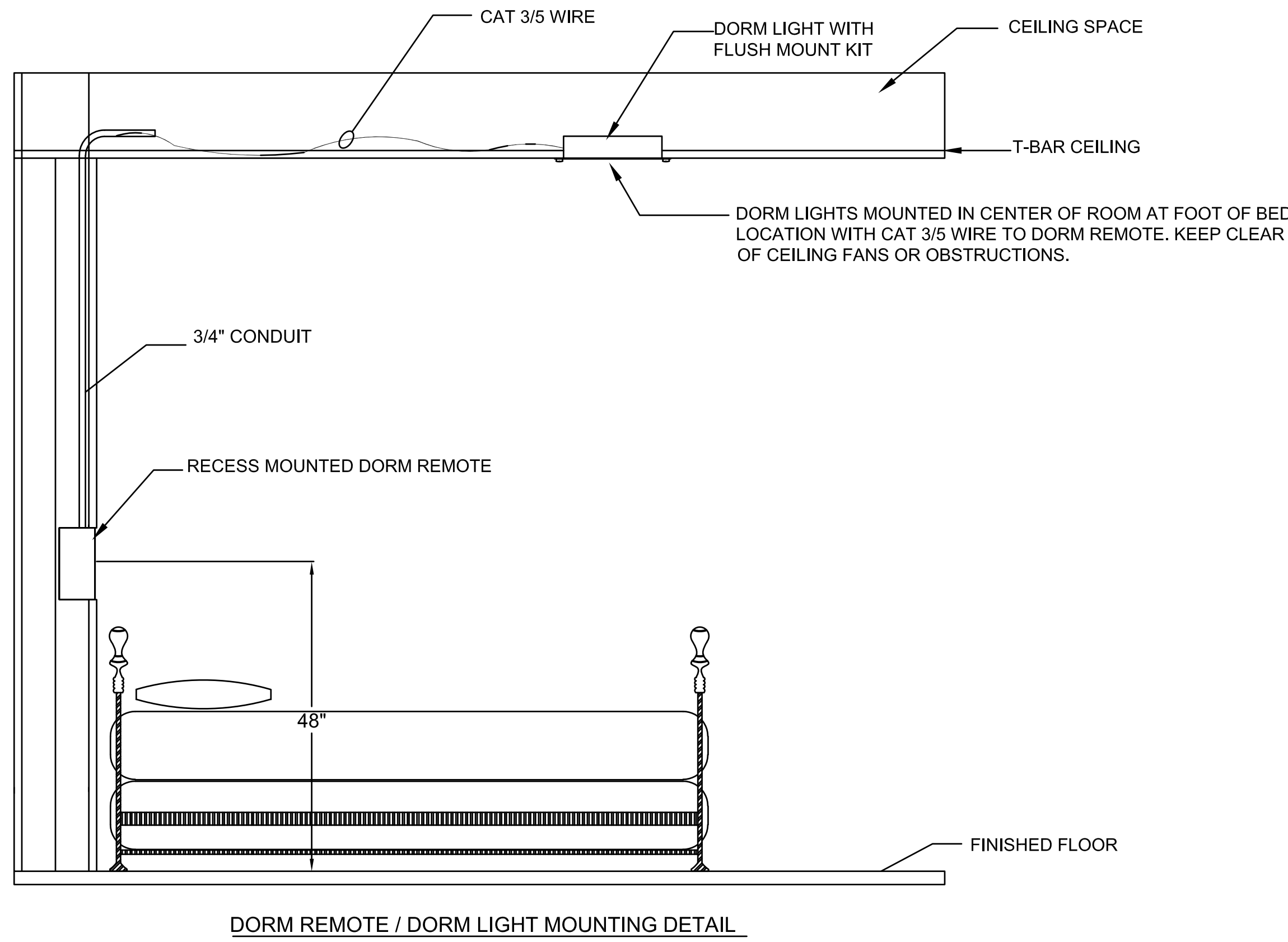
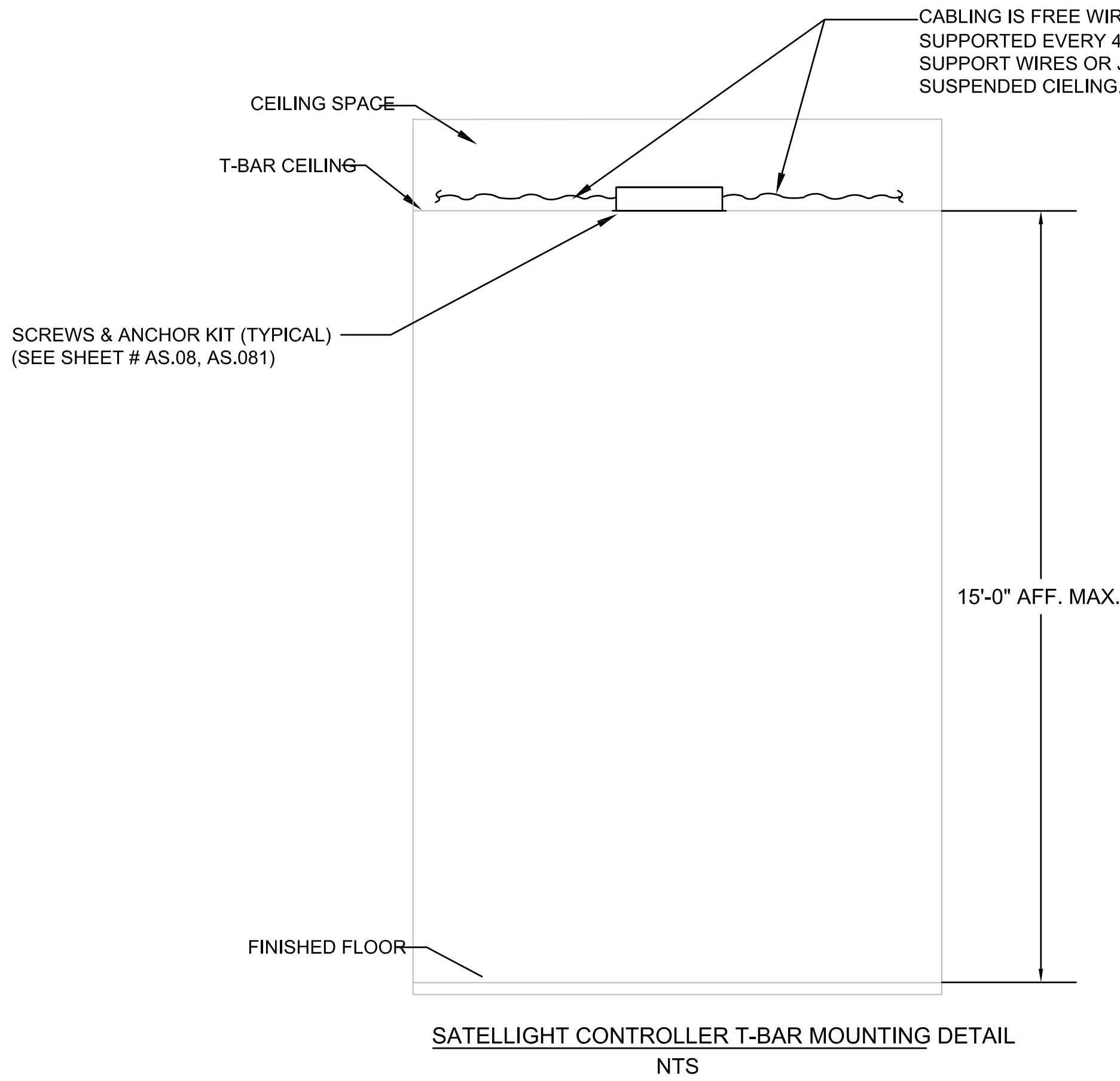
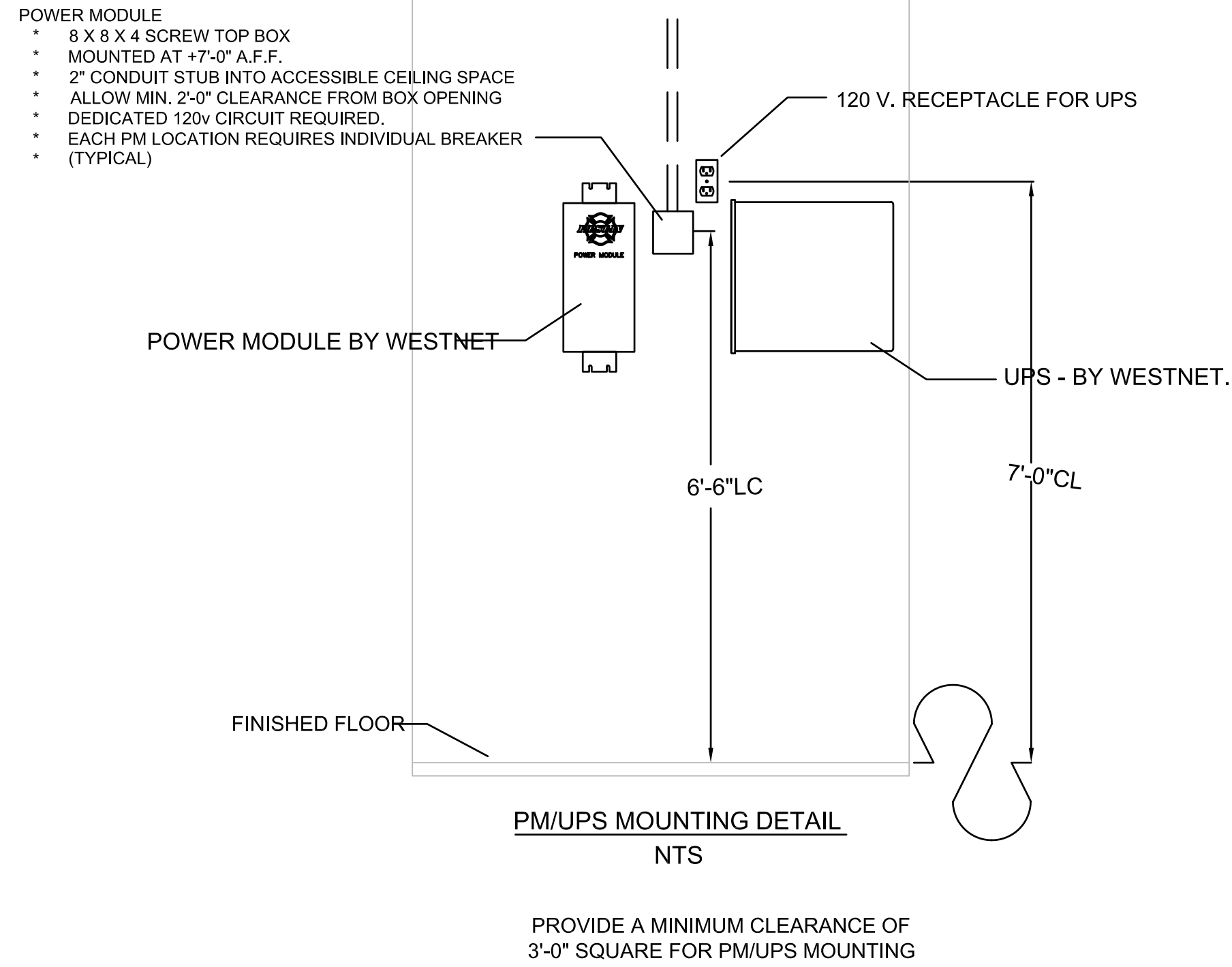
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01 HIGH POWER AMPLIFIER AND INTERIOR SPEAKER
N.T.S.
RE: WESTNET SPECIFICATIONS FOR OVERALL DEVICE DIMENSIONS.

ARCHITECT OF RECORD:

WILLIAMS
BLACKSTOCK
ARCHITECTS

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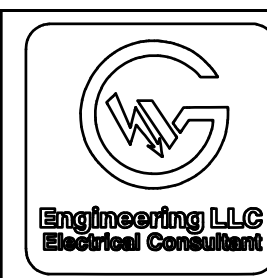
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ALERT SYSTEM DETAILS

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