

ADDENDUM #01

Project Name: Central County Fire & Rescue House #06

Project Number: 24057

Date: July 7, 2026

PLEASE NOTE

The following clarifications, deletions, additions, and supplemental instructions have been incorporated into the Project Manual, Construction Drawings and represent a portion of said Construction Documents.

*In the event of a conflict between this Addendum, Project Manual and/or Construction Drawings, **this Addendum shall supersede** all previous instructions, pertaining to said items.*

CLARIFICATIONS and REQUESTS FOR INFORMATION

1. A Project Prebid Conference was held on Tuesday July 7, 2026, per Specifications Section 00 21 13 Instructions to Bidders. Per discussions at that time, Architect stated Conference Agenda and Sign in Sheet would be issued to all Contractors identified on said Sign in Sheet.
 - a. **Response: Reference attached Prebid Conference Agenda and Sign in Sheet.**
2. Can you please confirm the design build intent for the MEPFP scopes? (Referencing Spec section 01 10 00 – Summary Item 1.08.A)
 - a. **Response: This is a fully designed project. We will not be utilizing Design-Build. Please reference MEPFP drawings. Updated Spec Section included in this addendum.**
3. Can you please clarify the address where the bids are to be delivered?
 - a. **Response: As found on the Bid Form, please deliver to Central County Fire & Rescue, 1220 Cave Springs Blvd., St. Peters, MO 63376.**
4. Architectural Synthetic Stone Units (Royal Corinthian) is in the masonry cast stone spec section. I have never seen something like this in our masonry specs before and I cannot find anything on the elevations that appears to be this material. Can you direct me to where this is used please? Because everything on the elevations and wall cuts appears to be brick, split face and cast stone.
 - a. **Response: Spec 04 72 00 will be removed as we are now using real limestone.**

5. The brick in the specs does not match the brick on the plans? Also there is no watertable brick – it's cast stone. Which are we following?
- a. Response: updated exterior finish schedule shown below

EXT. BLDG. MTLs. LEGEND	
MARK	DESCRIPTION
BRK-1	<u>CLAY FACE BRICK VENEER</u> BASIS OF DESIGN: BRICK CRAFT COLOR: BOSTONIAN SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8") BOND: RUNNING BOND MORTAR: SGS 10X LIGHT BUFF DISTRIBUTED BY: BEST BLOCK CONTACT: CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL
BRK-2	<u>CLAY FACE BRICK VENEER</u> BASIS OF DESIGN: BRICK CRAFT COLOR: BOSTONIAN SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8") BOND: ROWLOCK SILL MORTAR: SGS 10X LIGHT BUFF DISTRIBUTED BY: BEST BLOCK CONTACT: CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL
BRK-3	<u>CLAY FACE BRICK VENEER</u> BASIS OF DESIGN: BRICK CRAFT COLOR: BOSTONIAN SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8") BOND: SOLDIER COURSE LINTEL MORTAR: SGS 10X LIGHT BUFF DISTRIBUTED BY: BEST BLOCK CONTACT: CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL
CMU-01	<u>SPLIT FACE CMU BLOCK</u> BASIS OF DESIGN: MIDWEST BLOCK & BRICK COLOR: SOFT GOLD DISTRIBUTED BY: MIDWEST BLOCK AND BRICK CONTACT: CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL
MTL-1	<u>GUTTERS & DOWNSPOUTS</u> BASIS OF DESIGN: PAC-CLAD COLOR: MUSKET GRAY 614389 TEXTURE: SMOOTH PREFINISHED PROFILE: PAC-TITE WR - OFFSET SIZE: 6" W x 5" H
SHI-1	<u>ASPHALT SHINGLES</u> BASIS OF DESIGN: CERTANTEED SERIES: LANDMARK PRO COLOR: WEATHERED WOOD
SOF-1	<u>EXTERIOR VENTED SOFFIT</u> BASIS OF DESIGN: PAC-CLAD FLUSH, WIDE VENTED SOFFIT, ALUMINUM .040 COLOR: MUSKET GRAY 614389 TEXTURE: SMOOTH PREFINISHED SIZE: 2'-0" L x 1'-0" W TYP. U.N.O.
EIFS	<u>EXTERIOR INSULATION AND FINISH SYSTEM</u> BASIS OF DESIGN: DRYVIT COLOR: 3103 SANDSTONE TEXTURE: SANDPEBBLE, FINE SEE DRAWINGS FOR PROFILE DESIGN. CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL
STN-1	<u>LIME STONE RANING</u> BASIS OF DESIGN: SEMCO STONE STYLE: CUSTOM, INDIANA LIME STONE, HONED COLOR: CASTLE BUFF MORTAR: SGS 10X LIGHT BUFF SIZE/ PATTERN: REFER TO LIME STONE PROFILES ON DRAWINGS.
STF-1	<u>STOREFRONT & GLAZING</u> BASIS OF DESIGN: MATCH CENTRAL COUNTY FIRE STATION 5 PROTOTYPE PRODUCT: YES 45 TU, 2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM FINISH: ANOD. DARK BRONZE GLAZING: 1" INSULATED GLASS VITRO SOLARBAN 60 (2) + CLEAR REFERENCE GLAZING SCHEDULE AND ARCHITECTURAL SPECS.

6. All the cast stone items are changing to natural cut limestone now? Does it have to be from SEMCO? We have other supplies for Indiana Limestone that we regularly use and prefer to work with. I'm not sure what the reference of "castle" is with the buff. Never seen that in reference to Indiana limestone. It's always buff or grey.
 - a. **Response: Yes, that was the direction from our designer. Semco has a few variations of Buff, that is the one we selected. To the point, there is a substitution process as part of the spec, so if the item performs the same and has the same visually quality it will be considered.**
7. There is a lot of discrepancy between these two spec sections and products for accessories do not match between the two. Which are we following? 04 20 00-Unit Masonry or 04 26 13-Masonry Veneer.
 - a. **Response: Question posed to Spec writer, Answer - They indicated that there will be differences between the two because they cover different types of masonry.**
8. Can the AISC requirement be waived for fabricators and erectors if they conform to AISC standards.
 - a. **Response: No, AISC requirements are to be upheld.**
9. Can the AWI requirement be waived as long as AWI standards are followed?
 - a. **Response: No, AWI requirements are to be upheld.**
10. Spec Section 00 31 00 has a note regarding the Geotechnical report. Can you please provide this report?
 - a. **Response: Report provided for your information, additional content to follow.**
11. Can you clarify Liquidated Damages? AIA A101-2017, Item 4.5 calls out \$1,000 per CD and Section 00 73 00, Item K, Section 9.11 calls out \$3,000 per CD.
 - a. **Response: \$1,000 is correct, 00 73 00 will be updated.**
12. Section 01 40 00, Item 1.10 calls out Section 01 21 00, however I do not see that section in the project manual. This is in regard to the Allowance for testing*inspections. Can you please supply that section or clarify?
 - a. **Response: See attached New Spec Section 01 21 00.**
13. I noticed in the specifications that the inspections were to be provided by the owner. So, I wanted to verify if the inspections and testing had already been secured for this project?
 - a. **Response: At this time it is our understanding that the owner has not secured anyone for inspection and testing.**
14. Will bids be open publicly?
 - a. **Response: Yes, bid will be opened publicly.**
15. There are some indications as to what items are Owner Furnished and Owner Installed. Will there be a clear list of Owner Furnished and Owner installed items in the project?
 - a. **Response: A complete list of Owner Furnished, Owner Installed items will be provided. Additional content to follow.**

16. Has a date been identified for substantial completion.
 - a. **Response: At this time no date has been identified but completion before start of next school year would be ideal.**

PRODUCT SUBSTITUTIONS

1. Specification Section 10 51 13 – Metal Lockers (Scranton Products).
 - a. **Response: This Product Substitution request is not approved.**
2. Specification Section 10 51 13 – Metal Lockers (Summit Lockers).
 - a. **Response: This Product Substitution request is not approved.**

PROJECT MANUAL

1. 00 01 10 – Table of Contents
 - a. **Updated Revision column.**
 - b. **Reference attached Revised Section.**
2. 00 41 00 – Bid Form
 - a. **The base bid table on page 2 was updated to include dollar value information.**
 - b. **Reference attached Revised Section.**
3. 00 73 00 – Supplementary Conditions
 - a. **Item K - 9.11 - Liquidated Damages changed to \$1,000 in lieu of \$3,000 per calendar day.**
 - b. **Reference attached Revised Section.**
4. 01 10 00 – Summary
 - a. **Modified Number 1.07 to clarify that scope of work shall be implemented within multiple phases.**
 - b. **Remove Number 1.08 referencing Design-Build for MEPFP scopes.**
 - c. **Reference attached Revised Section.**
5. 01 21 00 – Allowances
 - a. **Section added in its entirety.**
 - b. **Reference attached New Section.**
6. 04 26 13 – Masonry Veneer
 - a. **2.02 – Added BrickCraft to list of manufacturers.**
 - b. **Reference attached Revised Section.**
7. 04 72 00 – Cast Stone Masonry
 - a. **Section to be removed in its entirety.**
8. 07 42 93 – preformed aluminum soffit panels
 - a. **Added in its entirety.**
 - b. **Reference attached New Section.**

9. 07 71 23 – Manufacturered Gutters and Downspouts
 - a. **Notations to PVC downspouts were removed.**
 - b. **2.01 – Added Pac-Clad to list of manufacturers.**
 - c. **Reference attached Revised Section.**

CONSTRUCTION DRAWINGS

GENERAL:

1. Sheet G000: COVER SHEET
 - a. **Updated sheet index to reflect addendum 01 revised sheets.**
 - b. **Reference attached Revised Sheet.**

CIVIL:

- ***No documents issued within this Addendum.***

LANDSCAPING:

- ***No documents issued within this Addendum.***

ARCHITECTURAL:

1. Sheet A004: LIFE SAFTETY PLAN
 - a. **Added path to storm shelter, signage legend, 2020 ICC 500 requirements, updated Life safety Plan Legend.**
 - b. **Reference attached Revised Sheet.**
2. Sheet A111: FLOOR PLAN
 - a. **Updated Mezzanine door number on dtl A6.**
 - b. **Reference attached Revised Sheet.**
3. Sheet A201: EXTERIOR ELEVATIONS
 - a. **Updated EXT Bldg. Materials Legend.**
 - b. **Reference attached Revised Sheet.**
4. Sheet A411: ENLARGED FLOOR PLANS
 - a. **Added dimensions to elevations.**
 - b. **Reference attached Revised Sheet.**
5. Sheet A412: ENLARGED FLOOR PLANS
 - a. **Added dimensions to elevations.**
 - b. **Reference attached Revised Sheet.**

6. Sheet A414: ENLARGED FLOOR PLANS
 - a. **Added dimensions to elevations.**
 - b. **Reference attached Revised Sheet.**
7. Sheet A415: ENLARGED FLOOR PLANS
 - a. **Added dimensions to elevations.**
 - b. **Reference attached Revised Sheet.**
8. Sheet A441: INTERIOR ELEVATIONS
 - a. **Added dimensions to elevations.**
 - b. **Reference attached Revised Sheet.**
9. Sheet A601: DOOR SCHEDULE & DETAILS
 - a. **Updated door schedule.**
 - b. **Reference attached Revised Sheet.**

STRUCTURAL:

- *No documents issued within this Addendum.*

MECHANICAL:

1. Sheet M202: MECHANICAL PIPING PLAN
 - a. **Added control valve bypass loop for natural gas serving patio and kitchen.**
 - b. **Rerouted natural gas piping for patio.**
 - c. **Reference attached Revised Sheet.**
2. Sheet M502: MECHANICAL DETAILS
 - a. **Added detail for installation of control valve bypass loop on natural gas service.**
 - b. **Reference attached Revised Sheet.**

PLUMBING:

1. Sheet P200: PLUMBING UNDERFLOOR PLAN
 - a. **Revised oil interceptor orientation.**
 - b. **Added piping for a floor cleanout in the kitchen and in the corridor.**
 - c. **Reference attached Revised Sheet.**
2. Sheet P201: PLUMBING FLOOR PLAN
 - a. **Added two floor cleanouts, one in the kitchen and one in the corridor.**
 - b. **Reference attached Revised Sheet.**
3. Sheet P601: PLUMBING SCHEDULES
 - a. **Added Interceptor Schedule to sheet.**
 - b. **Revised note 5 under drain schedule.**
 - c. **Reference attached Revised Sheet.**

FIRE PROTECTION:

- *No documents issued within this Addendum.*

ELECTRICAL:

1. Sheet E001: ELECTRICAL SYMBOLS AND ABBREVIATIONS
 - a. **Added Electric Door Hardware to Security Devices Legend.**
 - b. **Reference attached Revised Sheet.**
2. Sheet E401: AUXILARY PLAN
 - a. **Revised Detail 1 Auxiliary Plan to reflect the use of electric door hardware.**
 - b. **Reference attached Revised Sheet.**

END OF ADDENDUM #01

Central County Fire and Rescue – Pre-Bid Meeting
Central County Fire and Rescue House #6 (#24057)
1151 Jungs Station Road, St. Charles, MO 63303

A bidders conference has been scheduled for 10:00 A.M., July 7, 2026 at 1151 Jungs Station Road, St. Charles, MO 63303.

Introductions

Chief John Schneider- Fire Chief

Assist. Chief John LeDoux - Assistant Fire Chief

Roy Mangan – Archimages, Inc, Principal in Charge

(314)-965-7445

Joe McKinney – Archimages, Inc, Project Manager

(314)-965-7445

Mike Vorwerk – Civil Engineering Design Consultants, Inc.

Future Site Visits are by appointment only. Contact to be: Assistant Chief John LeDoux (636) 970-9700

1. Bids signed and under seal, executed, and dated will be received at the office of the Owner, CCFR Administration Building, 1220 Cave Springs Blvd., St. Peters, MO 63376, **before 3:00 P.M. on Wednesday, July 22, 2026.**
 - a. Offers submitted after the above time may be returned to the bidder unopened.
 - b. Fax or email bids will NOT be accepted. Unsigned bids will NOT be accepted.
 - c. Bids submitted to Archimages' office will NOT be accepted. No late bids will be accepted.
2. Submit two copies of the executed offer on the Bid Forms provided, signed and sealed with the required security in a closed opaque envelope, clearly identified with bidder's name, project name and Owner's name on the outside.
3. Bids shall be accompanied by a security deposit as follows:
 - a. Bid Bond of a sum no less than 5 percent of the Bid Amount on AIA A310 Bid Bond Form.
4. Bids will be held good and may not be withdrawn for a period of sixty (60) calendar days from receipt of bids.
5. Bidders shall complete and submit the qualification form, AIA Document A305-2020, via email to the Architect on or before 10:00 a.m. one week prior to the bid date.
 - a. Send the qualification form to: Joe McKinney, jmckinney@archimages-stl.com and Nicole Luedloff, nluedloff@archimages-stl.com.
6. Project is fully engineered with portions of it as delegated design. (fire suppression, etc.). Reference to Design Build Engineering does not apply and will be adjusted during Addendum #1.

7. Full set of Construction Documents include full set of drawings and complete specification manual. All Contractors, Sub-contractors, Sub-Sub-contractors, Vendors and Suppliers are responsible for information contained in the full set of documents.
8. Digital copies of the contract documents can also be downloaded for free from the Architects by contacting our office manager Nicole Luedloff nluedloff@archimages-stl.com. (314)-965-7445.
9. Contractors are responsible for cost of plans and are non-refundable.
10. Direct questions to Joe McKinney via e-mail jmckinney@archimages-stl.com **AND** Nicole Luedloff via email nluedloff@archimages-stl.com - Questions asked via phone or voice mail will not be answered.
11. Addenda may be issued during the bidding period. All Addenda become part of the Contract Documents. Include resultant costs in the Bid Amount. Last Addenda to be submitted **end of day Monday, July 20, 2026.**
12. Clarifications requested by bidders must be in writing by **the end of day Thursday, July 16, 2026.** The reply will be in the form of an Addendum, a copy of which will be forwarded to known recipients.
13. Accepted Bidder: Provide a Performance bond as described in 00 73 00 - Supplementary Conditions.
14. Taxes: This project is Tax Exempt - Refer to Document 00 73 00 - Supplementary Conditions for tax exemption requirements.
15. Project is a prevailing wage project. Certified payroll is required on all monthly pay applications.
16. Project is subject to Liquidated Damages
17. Available Project Information
 - a. Annual Wage Order
 - b. Geotechnical Report (to be issued in Addendum #1
 - c. Water Pressure Flow Test
18. Examine the project site before submitting a bid.
19. Preliminary Award Schedule: (subject to change)
 - a. Open Bids at Board of Directors Meeting 7/22/26
 - b. General Contractor Interviews (if required): Week of 7/27/26-7/30/26
 - c. Recommendation to Board of Directors: TBD
 - d. Sign/Award Contracts: TBD
 - e. Start Construction: TBD
 - f. Substantial Completion: TBD
20. Plans have been submitted to City of St. Peters for Permit review and approval.
21. General Contractor will pay for permits.
22. The Work is being bid as a single bid package. Package will be awarded as a single contract to one General Contractor.
 - a. The Work shall be completed within multiple phases as delineated within the drawings and other contract documents.

23. Bid Form Discussion

- a. Performance Assurance Bonds
- b. Allowances
- c. Cost of work
- d. Total Cost of Project
- e. Calendar Days

24. Alternates Discussion

- a. No Alternates

25. Contractor will receive associated site in order to conduct work.

- a. Both school and fire station access will need to be maintained at all times (Civil document).
- b. Owner will require 2 weeks to move into new house before existing can be demolished.
- c. The EXISTING entrance will need to remain open and functional for owner's use.

26. Review Spec Sections

- a. 00 21 13 – Instructions to Bidders and A701-2018
- b. 00 41 00 – Bid Form (All bidders MUST submit bids using the Bid Form provided in the Project Documents. All areas of the Bid Proposal Form must be completed.)
 - i. We are requesting the number of calendar days needed to complete this project. Owner will take this into account in determining award.
 - ii. Within 24 hours after submission of this bid, submit Document 00 41 01 – Supplemental Bid Information: Include Unit Price information and the names of all Subcontractors and the portions of the Work they will perform.
- c. 00 52 00 – Agreement Form / 00 72 00 – General Conditions / 00 73 00 – Supplementary Conditions
- d. 01 21 00 – Allowances
 - i. Inspection and testing
 - ii. Unsuitable soil and unforeseen conditions.

27. Drawing Review:

28. Question and Answer

Date: Tuesday, July 7, 2026

Location: 1151 Jungs Station Rd., St. Charles, MO 63303

Job # & Name: Central County Fire and Rescue Headquarters House #6



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Name	Organization	E-mail Address	Phone #
Danny Lamb	LCS	bids@lcsconstruct.com	636-294-6245
Katie Willi	TW Constructors	willik@twc-stl.com	314-978-8135
Charlie Killellin	Tc Constructors	killellinc@twc-stl.com	636-295-1869
Colonel Swiney	A. Eilers Construction	bids@aileersconstruction.com	636-378-1004
Dale Schlaefli	Lucas Stucco	bids@lucassstuccoplastering.com	314-303-1830
Alden Serloss	Bluegrass Landscaping	alden.serloss@bluegrasslawn.com	314-778-1339
Jared Arnold	Bluegrass Landscaping	jared.arnold@bluegrasslawn.com	314-778-1539
Shane Bartels	Double J Roofing	Shane@DoubleJRoofing.ORG	636-262-6807
John Parsill	Bartlett Tree Experts	JParsill@bartlett.com	314 914 6780
Annalise Wagner	Wright Construction	bids@wrightconstruct.com	314-580-5409
Drew Patterson	Wright Construction	bids@wrightconstruct.com	636 220 6850
Jeremy Torpea	Bex-STL	Jeremy@bexstl.com	314-486-1912
David Rosas	Shaw-Mc Industrial Services	bids@shawmcindustrial.com	636-284-9112
Sam Aylworth	Lawlor	Sam@lawlorcorp.com	314 504 4953
Cory Pask	TWC	pascane@twc-stl.com	636-489-9582

Jeff Limbough

Limbough Construction

JLimbough@LimboughConstruction.com

618-931-3170

Date: Tuesday, July 7, 2026

Location: 1151 Jungs Station Rd., St. Charles, MO 63303

Job # & Name: Central County Fire and Rescue Headquarters House #6

Name	Organization	E-mail Address	Phone #
Cassandra Summers	TWC	summersc@twc-stl.com	573-821-6372
Dominic Weaver	TWC	weaverd@twc-stl.com	314-405-0870
Ryan Coffman	Top Dog Construction	office@TopDogConstructionmo.com	636-577-5004
Jesse Marshall	Arch City Drain & Plumbing	jesse.archcitydrain@gmail.com	314-245-1878
Tristin Zeik	Lissell Mueller Construction	Tristin.Zeik@builtbycm.com	636-515-2680
Eric Rehagen	Eckelkamp Electric	eric@eckelkampelectricncm	636-751-9237
John Hill	GSS Construction	JHILL@GSSconstruction.com	314-298-8100
JOE PALARDY	RJP ELECTRIC	JOE.PALARDY@RJP-ELECTRIC.COM	636-399-4631
Nick Polizzi	ABF Security	Nick P@ABFSecurity.com	314-883-4447
Tom Broke	Freise Construction	tom@freiseconstruction.com	636-661-5176
Nicole Wolf	Hankins Construction	Bids@hankinsmidwest.com	314-426-7830
Jim Grzesik	Russell	jgrzesik@russellco.com	314-221-5042
Ryan Kassing	TWC	Kassingerr@TWC-stl.com	573-270-2392
Brad Clark	Integra Inc	bids@Integramo.com	636-946-3000
Brad Kilger	Waste Connections	bradleyk@wcnx.org	636-381-2100

Lindsey O'Neill Waste Connections

Lindsey O'Neill@wasteconnections.com

314-914-4935

Date: Tuesday, July 7, 2026

Location: 1151 Jungs Station Rd., St. Charles, MO 63303

Job # & Name: Central County Fire and Rescue Headquarters House #6



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Name	Organization	E-mail Address	Phone #
JEFF LAVAZZINI	SPARKS WORKS	JEFF.LAVAZZINI@SPARKS.COM	314-750-4864
ERIC GASSI	Prep Security	EGASSI@PREPSECURITY.COM	314-502-9312
Rodger Tucka	Marschel Wrecking	Rodger@marschelwrecking.com	636-359-5314
Tim Boshert	Twin Cloves Sign	Tim@twinclovesign.com	314-4816-0526
Carl Wilmes	Freise Construction	Bids@FreiseConstruction.com	636-661-5174
Mike Schneider	Russell	MSchneider@RussellCo.com	314-458-9552
Don Klingler	ICS	DKlingler@ics-stl.com	314-534-6664
Steve Kautberg	CN1 MECHANICAL	SKAUTBERG@CN1MECHANICAL.COM	618 567 6025
Lynda Alexander	Modern Bus Interiors	lalexander@MBIoffice.com	636 856 6696
Jake Saxton	INTEGRATE CONSTRUCTION PARTNERS	jsaxton@integratecp.com	314 623 0547
Tim Rhokey	CS Select Furniture	Trhokey@csselect.com	(314) 330-5200
Deis Griffin	Roost Cleaning	roostcleaning95@gmail.com	(314) 814-7994
Ryan Dunne	Martin Jetco	rdunne@martin-jetco.com	314-602-3599
Steve Clark	United Const	steve@unitedconst.com	314 912 6390

SECTION 00 01 10

TABLE of CONTENTS

PROCUREMENT ~ CONTRACTING ~ GENERAL REQUIREMENTS

DIVISION No. 00	PROCUREMENT, CONTRACTING REQUIREMENTS	REVISIONS	AUTHOR
00 01 10	Table of Contents	Adnd. #01	Archimages
00 01 11	Architectural Professional Seal		Archimages
00 01 12	Structural Professional Seal		kpff
00 01 13	Fire Protection Professional Seal		H&S
00 01 14	Plumbing Professional Seal		H&S
00 01 15	Heating, Ventilating and Air Conditioning Professional Seal		H&S
00 01 16	Electrical Professional Seal		H&S
00 01 19	Civil Professional Seal		CEDC
00 21 13	Instructions to Bidders		Archimages
00 31 00	Available Project Information		Archimages
00 41 00	Bid Form	Adnd. #01	Archimages
00 41 01	Supplemental Bid Information		Archimages
00 41 10	Contractor's Affidavit for Public Construction Projects		Archimages
00 41 20	Non Collusion Affidavit		Archimages
00 52 00	A.I.A. Standard Form of Agreement A101-2017		Archimages
00 72 00	A.I.A. General Conditions of the Contract for Construction A201-2017		Archimages
00 73 00	Supplementary Conditions	Adnd. #01	Archimages

DIVISION No. 01	GENERAL REQUIREMENTS	REVISIONS	AUTHOR
01 10 00	Summary	Adnd. #01	Archimages
01 20 00	Price and Payment Procedures		Archimages
01 21 00	Allowances	Adnd. #01	Archimages
01 22 00	Unit Prices		Archimages
01 30 00	Administrative Requirements		Archimages
01 32 16	Construction Progress Schedule		Archimages
01 40 00	Quality Requirements		Archimages
01 50 00	Temporary Facilities and Controls		Archimages
01 57 13	Temporary Erosion and Sediment Control		CEDC
01 60 00	Product Requirements		Archimages
01 70 00	Execution and Closeout Requirements		Archimages
01 74 19	Construction Waste Management and Disposal		Archimages
01 78 00	Closeout Submittals		Archimages
01 79 00	Demonstration and Training		Archimages
01 91 13	General Commissioning Requirements		Archimages

TECHNICAL ~ SECTIONS

DIVISION No. 02	EXISTING CONDITIONS	REVISIONS	AUTHOR
02 41 00	Demolition		Archimages

DIVISION No. 03	CONCRETE	REVISIONS	AUTHOR
03 05 16	Underslab Vapor Barrier		Archimages
03 20 00	Concrete Reinforcing		kpff
03 30 00	Cast in Place Concrete		kpff
03 35 11	Concrete Floor Finishes		Archimages

DIVISION No. 04	MASONRY	REVISIONS	AUTHOR
04 20 00	Unit Masonry		kpff
04 26 00	Single Wythe Unit Masonry		Archimages
04 26 13	Masonry Veneer	Adnd. #01	Archimages

DIVISION No. 05	METALS	REVISIONS	AUTHOR
05 12 00	Structural Steel Framing		kpff
05 31 00	Steel Decking		kpff
05 40 00	Cold Formed Metal Framing		kpff
05 44 00	Cold Formed Metal Trusses		kpff
05 50 00	Metal Fabrications		Archimages
05 51 33	Metal Ladders		Archimages

DIVISION No. 06	WOODS, PLASTICS and COMPOSITES	REVISIONS	AUTHOR
06 10 53	Miscellaneous Rough Carpentry		Archimages
06 16 00	Sheathing		kpff
06 20 00	Finish Carpentry		Archimages
06 41 00	Architectural Wood Casework		Archimages
06 83 16	Fiberglass Reinforced Paneling		Archimages

DIVISION No. 07	THERMAL and MOISTURE PROTECTION	REVISIONS	AUTHOR
07 14 00	Fluid Applied Waterproofing		Archimages
07 21 00	Thermal Insulation		Archimages
07 24 00	Exterior Insulation and Finish Systems		Archimages
07 25 00	Weather Barriers		Archimages
07 31 13	Asphalt Shingles		Archimages
07 42 93	Preformed Aluminum Soffit Panels Solid and Vented	Adnd. #01	Archimages
07 62 00	Sheet Metal Flashing and Trim		Archimages
07 71 00	Roof Specialties		Archimages
07 71 23	Manufactured Gutters and Downspouts	Adnd. #01	Archimages
07 72 00	Roof Accessories		Archimages
07 84 00	Firestopping		Archimages
07 92 00	Joint Sealants		Archimages

DIVISION No. 08	OPENINGS	REVISIONS	AUTHOR
08 11 13	Hollow Metal Doors and Frames		Archimages
08 11 16	Aluminum Doors and Frames		Archimages
08 14 16	Flush Wood Doors		Archimages
08 31 00	Access Doors and Panels		Archimages
08 36 13	Sectional Doors		Archimages
08 43 13	Aluminum Framed Storefronts		Archimages
08 71 00	Door Hardware		Archimages
08 71 01	Door Hardware Groups		Archimages
08 80 00	Glazing		Archimages
08 83 00	Mirrors		Archimages

DIVISION No. 09	FINISHES	REVISIONS	AUTHOR
09 05 61	Common Work Results for Flooring Preparation		Archimages
09 21 16	Gypsum Board Assemblies		Archimages
09 30 00	Tiling		Archimages
09 51 00	Acoustical Ceilings		Archimages
09 65 66	Resilient Athletic Flooring		Archimages
09 67 00	Fluid Applied Flooring		Archimages
09 68 13	Tile Carpeting		Archimages
09 78 00	Interior Wall Paneling		Archimages
09 84 13	Sound Absorptive Panels		Archimages
09 91 13	Exterior Painting		Archimages
09 91 23	Interior Painting		Archimages

DIVISION No.10	SPECIALTIES	REVISIONS	AUTHOR
10 14 19	Dimensional Letter Signage		Archimages
10 14 23	Panel Signage		Archimages
10 21 13.13	Metal Toilet Compartments		Archimages
10 21 13.17	Phenolic Toilet Compartments		Archimages
10 26 01	Wall Protection		Archimages
10 28 00	Toilet, Bath and Laundry Accessories		Archimages
10 43 00	Emergency Aid Specialties		Archimages
10 44 00	Fire Protection Specialties		Archimages
10 50 31	Turnout Gear Lockers		Archimages
10 51 13	Metal Lockers		Archimages
10 75 00	Flagpoles		Archimages
10 82 13	Exterior Grilles and Screens		Archimages

DIVISION No.11	EQUIPMENT (Not Applicable)	REVISIONS	AUTHOR

DIVISION No.12	FURNISHINGS	REVISIONS	AUTHOR
12 00 00	NewBorn Safety Devices		Archimages
12 24 00	Window Shades		Archimages
12 32 00	Manufactured Wood Casework		Archimages
12 36 00	Countertops		Archimages

DIVISION No.13	SPECIAL CONSTRUCTION (Not Applicable)	REVISIONS	AUTHOR

DIVISION No.14	CONVEYING EQUIPMENT (Not Applicable)	REVISIONS	AUTHOR

DIVISION No. 20	BASIC FIRE SUPPRESSION, PLUMBING and (HVAC) (Not Applicable)	REVISIONS	AUTHOR

DIVISION No. 21	FIRE PROTECTION	REVISIONS	AUTHOR
21 05 00	Common Work Requirements		H&S
21 05 49	Fire Protection Systems		H&S
21 06 00	Hangers and Supports		H&S
21 07 50	Fire Protection Identification		H&S
21 14 00	Fire Protection Meters and Gages		H&S
21 32 60	Standpipe and Sprinkler Systems		H&S

DIVISION No. 22	PLUMBING	REVISIONS	AUTHOR
22 05 00	Basic Plumbing Materials and Methods		H&S
22 05 49	Plumbing Systems Supports, Bracing and Seismic Restraints		H&S
22 06 00	Plumbing Hangers and Supports		H&S
22 07 50	Plumbing Identification		H&S
22 08 40	Plumbing Pipe Insulation		H&S
22 11 00	Plumbing Valves		H&S
22 14 00	Plumbing Meters and Gages		H&S
22 34 00	Fuel Fired Domestic Water Heaters		H&S
22 41 10	Water Distribution Piping		H&S
22 42 00	Drainage and Vent Piping		H&S
22 43 00	Plumbing Specialties		H&S
22 44 00	Plumbing Fixtures		H&S
22 44 35	Domestic Hot Water Return Pumps		H&S

DIVISION No. 23	HEATING, VENTILATING and AIR CONDITIONING (HVAC)	REVISIONS	AUTHOR
23 00 00	Mechanical General Requirements		H&S
23 00 50	Basic Mechanical Materials and Methods		H&S
23 05 13	Motors		H&S
23 05 29	Hangers and Pipe Supports		H&S
23 05 48	Mechanical Systems Vibration Control		H&S
23 05 49	Mechanical Supports, Bracing and Seismic Requirements		H&S
23 05 93	Testing, Adjusting and Balancing		H&S
23 07 00	Mechanical Insulation		H&S
23 09 00	Direct Digital Control Systems		H&S
23 09 90	(HVAC) Instrumentation and Controls		H&S
23 11 23	Facility Natural Gas Piping		H&S
23 31 13	Metal Ducts		H&S
23 33 00	Air Duct Accessories		H&S
23 34 23	(HVAC) Fans and Power Ventilators		H&S
23 37 13	Diffusers, Registers, Griles and Louvers		H&S
23 37 23	(HVAC) Gravity Ventilators		H&S
23 38 13	Kitchen Hoods		H&S
23 55 23	Low Intensity Radiant Heaters		H&S
23 81 26	Split System Air Conditioners		H&S
23 81 33	Variable Refrigerant Flow Systems		H&S
23 82 16	Electric Resistance Air Coils		H&S

DIVISION No. 24	AIR DISTRIBUTION (Not Applicable)	REVISIONS	AUTHOR

DIVISION No. 25	BUILDING AUTOMATION SYSTEMS (Not Applicable)	REVISIONS	AUTHOR

DIVISION No. 26	ELECTRICAL	REVISIONS	AUTHOR
26 00 00	Electrical General Requirements and Common Work Results		H&S
26 05 19	Low Voltage Electrical Power Conductors and Cables		H&S
26 05 26	Grounding and Bonding for Electrical Systems		H&S
26 05 29	Hangers and Supports for Electrical Systems		H&S
26 05 33	Conduits for Electrical Systems		H&S
26 05 33.16	Boxes and Covers for Electrical Systems		H&S
26 05 48	Vibration and Seismic Controls for Electrical Systems		H&S
26 05 53	Identification for Electrical Systems		H&S
26 05 73	Overcurrent Protective Device Arc Flash Study		H&S
26 09 23	Lighting Control Devices		H&S
26 24 16	Panelboards		H&S
26 27 26	Wiring Devices		H&S
26 28 13	Fuses		H&S
26 28 16	Enclosed Switches and Circuit Breakers		H&S
26 32 13	Engine Generators		H&S
26 33 16	Floor Boxes		H&S
26 36 00	Transfer Switches		H&S
26 41 13	Lightning Protection for Structures		H&S
26 43 13	Surge Protection for Low Voltage Electrical Power Circuits		H&S
26 51 19	Light Emitting Diode Interior Lighting		H&S
26 56 00	Exterior Lighting		H&S

DIVISION No. 27	COMMUNICATIONS	REVISIONS	AUTHOR
27 05 28	Pathways for Communications Systems		H&S
27 05 44	Sleeves, Sleeve Seals for Communications Pathways and Cabling		H&S
27 11 00	Communications Equipment Room Fittings		H&S
27 13 00	Communications Backbone Cabling		H&S
27 15 00	Communications Horizontal Cabling		H&S

DIVISION No. 28	ELECTRONIC SAFETY and SECURITY	REVISIONS	AUTHOR
28 05 13	Conductors, Cables for Electronic Safety and Security		H&S
28 05 28	Pathways for Electronic Safety and Security		H&S
28 05 44	Sleeves, Sleeve Seals for Electronic Safety, and Security Pathways, Cabling		H&S
28 31 11	Digital, Addressable Fire Alarm System		H&S

DIVISION No. 31	EARTHWORK	REVISIONS	AUTHOR
31 00 00	Earthwork		CEDC
31 10 00	Site Clearing		CEDC
31 23 16	Excavation		CEDC
31 23 16.13	Trenching		CEDC
31 23 23	Fill		CEDC

DIVISION No. 32	EXTERIOR IMPROVEMENTS	REVISIONS	AUTHOR
32 11 23	Aggregate Base Courses		CEDC
32 12 16	Asphalt Paving		CEDC
32 13 13	Concrete Paving		CEDC
32 17 23.13	Painted Pavement Markings		CEDC
32 31 13	Chain Link Fences and Gates		CEDC
32 32 23	Segmental Retaining Wall Systems		CEDC

DIVISION No. 33	UTILITIES	REVISIONS	AUTHOR
33 11 16	Site Water Utility Distribution Piping		CEDC
33 13 00	Disinfecting of Water Utility Distribution		CEDC
33 31 00	Site Sanitary Utility Sewerage Piping		CEDC
33 41 00	Site Storm Utility Drainage Piping		CEDC
33 46 00	Subdrainage		CEDC

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**Section 00 41 00
Bid Form**

Bid Form must be completed, received by Owner, Architect no later than 3:00 p.m. local time, Wednesday July 22, 2026. All Bidders are required to submit (2) Two copies of sealed Bid Package, in person, to; Central County Fire & Rescue 1220 Cave Springs Boulevard St. Peters, Mo. 63376-6517. Faxed or emailed Bid Packages are not acceptable, will not be permitted.

Bidder both proposes and agrees, if this Bid Package is accepted, to enter into an agreement with Owner, with Form included within Bidding Documents and shall perform all Work delineated within Contract Documents, for those prices and within those times delineated within this Bid Form and in full accordance with all other terms, conditions of Contract Documents.

Stated below is contact data for Bidder, submitting this Bid Package, who shall be responsible for all questions that may arise during Bid review and who may also be contacted to discuss acceptance or rejection of this Bid:

Company Name: _____

Contact Person Name, Title: _____

Street Address: _____

City, State Zip Code: _____

Office Phone Number: _____

Cell Phone Number: _____

Email Address: _____

Bidder accepts all terms, conditions of Contract Documents, including, but not limited to "Instructions to Bidders," without any limitations.

STIPULATED SUM BID FORM

Name of Project: **Central County Fire & Rescue, House #06**

Date: _____

Proposal from: _____

(Hereinafter called Bidder), a Corporation organized and existing under those Laws of State of _____, a partnership, or an individual doing business as _____ (cross out inapplicable).

**To: Mr. John LeDoux, Assistant Chief
Central County Fire & Rescue
1220 Cave Springs Boulevard
St. Peters, Mo.63376-6517**

Bidder, in full compliance with "Invitation for Bid", this particular Project and having carefully, thoroughly examined all Contract Documents, which documents are made a part hereof, as well as having thoroughly examined this particular Existing Project Site and any, all conditions that may affect said Work, agrees to furnish all Labor, Materials, Supplies as necessary, required to perform this particular entire Project Scope of Work, in full accordance with these Contract Documents and within time, prices stated below.

BASE BID

Central County Fire & Rescue, House #06		
Item No.:	Item Description:	Sub Total:
01	Performance Assurance Bonds	
02	Independent Inspections, Testing Services Allowance	\$ 50,000.00
03	Vehicular Traffic Light Structure Allowance	\$ 85,000.00
04	Unforeseen Existing Conditions Allowance	\$ 100,000.00
05	Entire Project Scope of Work	

All applicable Federal and State Taxes have been excluded from our Bid Package.

Total all lines above shall equal Total Lump Sum Bid, this particular Project.

**Furnish all Labor, Materials, Supplies as required to perform entire Scope of Work for:
Central County Fire & Rescue, House #06, as delineated within Contract, Bid Documents,
for a total Lump Sum Dollar Amount of:**

\$ _____

TIME

Pending Board approval, if required, an issuance of Conditional Notice to Proceed via Archimages, Inc. is anticipated to take place no later than; **Additional Content to Follow.** Bidder does hereby state, all time required to perform entire Scope of Work, this particular Project, as delineated within Contract, Bid Documents, including all previously accepted Project Alternates and any necessary Work required to complete said Project by previously indicated duration, proposed within this Bid Form. All Liquidated Damages shall be assessed for any delays to previously established Project Substantial Completion Date.

Bidders shall propose a contractual duration for achieving this particular Project Substantial Completion Date, per AIA A201-2017 Section 9.8, within blank space, provided below. This proposed duration shall be utilized as criteria for selection of General Contractor.

Complete entire Scope of Work, this particular Project, as required to achieve Project Substantial Completion within _____ calendar days, from issue date, Notice to Proceed.

“MANDATORY” ALTERNATES;

“Not Applicable, This Particular Project”

“VOLUNTARY” ALTERNATES;

“Not Applicable, This Particular Project”

BID FORM SUPPLEMENTS

Following Supplements have been attached to this Bid Form and are integral part of same:

- Document 00 41 10 - Contractor’s Affidavit for Public Construction Projects
- Document 00 41 20 - Non Collusion Affidavit

We agree to submit following Supplements to Bid Forms, within (24) Twenty Four Hours of Bid Date, Time:

- Any, all Supplemental Bid Information, pertinent, this particular Project.
- Any, all Supplemental Bid Information, requested by Owner.

BID DOCUMENTS

A. Bidder acknowledges receipt of following Documents:

1. All Drawings, Specifications;

2. Addenda;

a. Addenda No. _____	Dated _____
b. Addenda No. _____	Dated _____
c. Addenda No. _____	Dated _____
d. Addenda No. _____	Dated _____
e. Addenda No. _____	Dated _____

MISCELLANEOUS BID REQUIREMENTS

- A. This Offer shall be open to acceptance, is irrevocable for period of (60) Sixty Business days from Bids Due Date.
- B. Said undersigned understands, acknowledges, Owner reserves right to reject any, all Bids, Subcontractors, Vendors, Employees.
- C. Said undersigned further agrees to indemnify, save, protect Owner from and against any losses, judgments of every nature and description made, brought, or recovered against Owner by reason of any act or omission of undersigned, his agents, subcontractors, vendors, or employees within execution, Scope of Work, this particular Project.
- D. Said undersigned hereby declares Stipulated Sum Bid is based solely upon those materials, equipment described within Contract, Bidding Documents (including all Addenda), **and that no Substitutions apply.**
- E. Said undersigned declares they had ample opportunity, time to thoroughly examine Existing Project Site, Contract Documents and have carefully authored their Bid Package upon the basis thereof, also, that they have thoroughly examined, verified said Bid Package, including all Labor, Materials and Supplies required thereunder, said cost, figures therefore and hereby states those amounts set forth within Bid Package are accurate, correct and that no mistakes, errors have been included within same.
- F. See next page for signatures.

VIA CORPORATION:

Corporation Name

Officer Signature

Officer Name, Title

Incorporated under Laws of the State of _____ (print)

Licensed to do business within said State (check one) ☐ Yes ☐ No

Business Street Address, all future Communications: _____

(Seal if Bid Package provided by Corporation)

VIA PARTNERSHIP: Provide Business Street Address, Names all Partners. Each Partner shall execute said Bid Form under their respective seals. Attach a copy Partnership, Joint Venture agreement to Bid Form.

Partnership Name

Authorized Partner Signature

Authorized Partner Name, Title (print)

VIA INDIVIDUAL;

Firm Name

Individual Signature

Individual Name (print)

Business Street Address all future Communications: _____

VIA JOINT VENTURE: List all Parties, indicate that one who will be designated as the "Lead," this particular Project. Each party of Venture shall execute Bid Form under their respective seals. Attach copy of the Partnership, Joint Venture agreement to Bid Form.

END OF SECTION

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**SECTION 00 73 00
SUPPLEMENTARY CONDITIONS**

PART 1 GENERAL

1.01 SUMMARY

- A. These Supplementary Conditions amend and supplement the General Conditions defined in Document 00 72 00 - General Conditions and other provisions of the Contract Documents as indicated below. Provisions that are not so amended or supplemented remain in full force and effect.
- B. The terms used in these Supplementary Conditions that are defined in the General Conditions have the meanings assigned to them in the General Conditions.

1.02 MODIFICATIONS TO GENERAL CONDITIONS

A. ARTICLE 1.1 - GENERAL PROVISIONS

- 1. Amend section 1.1.1 to include:
 - a. The Contract Documents, which comprise the entire agreement between the Owner and the Contractor, are to also include the following:
 - 1) AIA 101-2017 and AIA 201-2017
 - 2) Supplemental General Conditions (this document)
 - 3) Bid Form and Bid Bond
 - 4) Contractor's Affidavit for Public Construction Projects
 - 5) Non-Collusion Affidavit
 - 6) Missouri Annual Wage Order
 - 7) All Addenda to the Bid Documents and all Modifications issued after execution of this Contract
 - b. The documents listed above, together with this Agreement, form the Contract and are all as fully a part of the Contract as if attached to this Agreement or repeated herein.

B. ARTICLE 2.3 - INFORMATION AND SERVICES REQUIRED OF THE OWNER

- 1. Delete section 2.3.6 and substitute the following section:
 - a. 2.3.6: The Owner shall furnish the Contractor NO PRINTED copies of the Contract Documents. The Contractor may purchase copies at his own cost. Digital copies are available at no cost.

C. ARTICLE 3.1 - GENERAL

- 1. Add the following sections:
 - a. 3.1.4: The Contractor must agree that they and all of its subcontractors and sub-subcontractors will endeavor to the assignment of work based upon historical craft jurisdiction and should seek to resolve any disputes before they affect any delays in the progress of the work.
 - b. 3.1.5: The Contractor must agree that all installing trades will provide employees who have participated in, or have employees currently participating in, a Department of Labor-approved apprenticeship program.
 - c. 3.1.6: The Contractor must agree that they and all of its subcontractors and sub-subcontractors provide employer-subsidized health insurance.
 - d. 3.1.7: The Contractor must agree that all installing trades provide, or participate in, an employer-sponsored pension plan.

D. ARTICLE 3.2 - REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

- 1. Add the following section:

- a. 3.2.5: The Owner is entitled to reimbursement from the Contractor for amounts paid to the Architect for evaluating and responding to the Contractor's requests for information that are not prepared in accordance with the Contract Documents or where the requested information is available to the Contractor from a careful study and comparison of the Contract Documents, field conditions, other Owner-provided information, Contractor-prepared coordination drawings, or prior Project correspondence or documentation.

E. ARTICLE 3.4 - LABOR AND MATERIALS

- 1. Add Section 3.4.2.1 to Section 3.4.2:
 - a. .2.1: After the Contract has been executed, the Owner and Architect will consider requests for the substitution of products in place of those specified only under the conditions set forth in the General Requirements (Division 1 of the Specifications). By making requests for substitution, the Contractor:
 - 1) .1 represents that it has personally investigated the proposed substitute product and determined that it is equal or superior in all respects to that specified.
 - 2) .2 represents that it will provide the same warranty for the substitution as it would have provided for the product specified.
 - 3) .3 certifies that the cost data presented is complete and includes all related costs for the substituted product and for Work that must be changed as a result of the substitution, except for the Architect's redesign costs, and waives all claims for additional costs related to the substitution that subsequently become apparent; and
 - 4) .4 shall coordinate the installation of the accepted substitute, making such changes as may be required for the Work to be complete in all respects.
- 2. Add the following to the end of Section 3.4.2:
 - a. .2.2: The Owner shall be entitled to reimbursement from the Contractor for amounts paid to the Architect for reviewing the Contractor's proposed substitutions and making agreed-upon changes in the Drawings and Specifications resulting from such substitutions.
- 3. Add the following to the end of Section 3.4.3:
 - a. 3.4.3.1: The Contractor / Sub-Contractors / Sub-Sub-Contractors shall provide a sworn affidavit and verification that they are registered with the U.S. Citizenship and Immigration Services E-Verify service and have records of all employees working on this project. Provide records to Owner.
 - b. 3.4.3.2: Any construction employees intending to work on the job site shall complete the OSHA 10 Hour Training Course before their scope of work begins. On site Superintendent shall keep a three-ring binder with names and photocopies of all certificates.
 - c. 3.4.3.3: The Contractor shall, at all times, employ sufficient labor and equipment for prosecuting the Work to full completion in the manner and time required by the Contract Documents. All workmen shall have sufficient skill and experience to properly perform the work assigned to them.

F. ARTICLE 3.6 - TAXES

- 1. The Owner is a Tax Exempt Not for Profit. Obtain proper paperwork from the Owner for exemption.

G. ARTICLE 3.9 - SUPERINTENDENT

- 1. Add Section 3.9.1.1 to Section 3.9.1:
 - a. This superintendent person shall be a non-working superintendent who will be responsible for the satisfactory progression of the Work and to ensure that all work is being completed in accordance with the Plans and Specifications. The superintendent shall be satisfactory to the Owner and shall not be changed except with the consent of the Owner. The superintendent shall also relay any conflicts or discrepancies that arise in the plans to the Owner's representative for resolution or interpretation.

H. ARTICLE 3.12 - SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

1. Add the following section:

- a. .11: The Architect's review of Contractor's submittals will be limited to examination of an initial submittal and one (1) resubmittal. The Owner is entitled to obtain reimbursement from the Contractor for amounts paid to the Architect for evaluation of additional resubmittals.

I. ARTICLE 4.2 - ARCHITECT'S ADMINISTRATION OF THE CONTRACT

1. Add the following section:

- a. .2.1: The Owner is entitled to reimbursement from the Contractor for amounts paid to the Architect for site visits made necessary by the fault of the Contractor or by defects and deficiencies in the Work.

J. ARTICLE 7 - CHANGES IN THE WORK

1. Add the following Section 7.1.4 to Section 7.1:

- a. .4: The combined overhead and profit included in the total cost to the Owner for a change in the Work shall be based on the following schedule:
 - 1) .1 For the Contractor, for Work performed by the Contractor's own forces, ten (10) percent of the cost.
 - 2) .2 For the Contractor, for Work performed by the Contractor's Subcontractors, five (5) percent of the amount due the Subcontractors.
 - 3) .3 For the Subcontractor involved, for Work performed by that Subcontractors own forces, ten (10) percent of the cost.
 - 4) .4 For each Subcontractor involved, for Work performed by the Subcontractor's Sub-subcontractors, five (5) percent of the amount due the Sub-subcontractor.
 - 5) .5 Cost to which overhead and profit is to be applied shall be determined in accordance with Section 7.3.7.
 - 6) .6 In order to facilitate checking of quotations for extras or credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of costs including labor, materials and Subcontracts. Labor and materials shall be itemized in the manner prescribed above. Where major cost items are Subcontracts, they shall be itemized also. In no case will a change involving over \$2,000 be approved without such itemization.

K. ARTICLE 9.11 - LIQUIDATED DAMAGES (add)

1. Add the following Section 9.11.1

- a. In the event Substantial Completion of any aspect of the Work is not achieved by the time specified, the Contractor shall pay the Owner, liquidated damages in the amount of one thousand dollars (1,000.00) per calendar day (including weekends and holidays) after, until Substantial Completion is achieved. The parties acknowledge and agree that the provisions of Section 8.3 of the AIA A201-2017 - General Conditions of the Contract for Construction entered into by the parties and any other provisions of the Contract Documents relating to justified delays or extensions of time, shall not preclude the payment and recovery of liquidated damages required pursuant to section 3.3 of AIA A101-2017 Standard Form of Agreement Between Owner and Contractor. The above provisions calling for the payment of liquidated damages are provided herein in light of the difficulty of determining the amount of damages which may result to the Owner from the Contractor's failure to achieve Substantial Completion on or before time specified. The parties agree that the liquidated damages set forth above are reasonable, and not a penalty, based upon the facts and circumstances of the parties at the time of entering into this Agreement and with due regard to future expectations. The payment of liquidated damages to the Owner shall not be construed as a release or waiver by the Owner of the right to prevent any delays in Substantial Completion through equity or otherwise.

L. ARTICLE 10 - PROTECTION OF PERSONS AND PROPERTY

1. Add the following Section 10.2.3.1 and 10.2.3.2 to Section 10.2.3:
 - a. 10.2.3.1: During the progress of the Work, the Contractor shall protect all existing and new work from injury or defacement and particular care shall be taken of all finished parts. Any damage occurring to the work from any cause, including any damage caused by others and utilities, shall be properly repaired and/or replaced at the Contractor's expense to the satisfaction of the Owner or Owner's representative.
 - b. 10.2.3.2: The Contractor is also responsible for any repair and/or maintenance required throughout the project limits from Notice to Proceed until final acceptance of the Work by the Owner. These maintenance items or repairs include, but are not limited to: pothole repair, resurfacing temporary roads, maintenance of utility cuts, street sweeping, and mowing.

M. ARTICLE 11 - INSURANCE AND BONDS

1. Add the following Sections 11.1.1.1 through 11.1.1.4 to Section 11.1.1:
 - a. .1.1 The limits for Worker's Compensation and Employers' Liability insurance shall meet statutory limits mandated by State and Federal Laws.
 - b. .1.2 The limits for Commercial General Liability insurance including coverage for Premises-Operations, Products-Completed Operations, Contractual Liability, Personal Injury and Broad Form Property Damage (including coverage for Explosion, Collapse and Underground hazards) shall be as follows:
 - 1) \$1,000,000.00 Each Occurrence
 - 2) \$2,000,000.00 General Aggregate
 - 3) \$1,000,000.00 Personal and Advertising Injury
 - 4) \$2,000,000.00 Products-Completed Operations Aggregate
 - 5) \$10,000,000.00 Excess Umbrella
 - 6) .1 The policy shall be endorsed to have the General Aggregate apply to this Project only.
 - 7) .2 The Contractual Liability insurance shall include coverage sufficient to meet the obligations in AIA Document A201-2017 under Section 3.18.
 - 8) .3 Products and Completed Operations insurance shall be maintained for a minimum period of at least five (5) years after the expiration of the period for correction of Work.
 - c. .1.3 Automobile Liability insurance (all owned, non-owned and hired vehicles) for bodily injury and property damage: \$1,000,000.00 Each Accident
 - d. .1.4 The Contractor shall at the Contractor's own expense provide insurance coverage for materials stored off the site after written approval of the Owner at the value established in the approval, and also for portions of the Work in transit or at the project site until such materials are permanently attached to the Work.
 - e. .1.5 The Contractor shall purchase and maintain Builder's Risk Insurance (also known as Course of Construction Insurance) covering the entire work of the project include, but not limited to property damage, theft, vandalism, fire, lightning, arson, collapse, windstorm, hail, water, earth movement, flood, water intrusion, backup sewers and drains, mechanical breakdown.
2. Add the following Section 11.2.2.1 to Section 11.2.2:
 - a. .2.1 The insurance required by Section 11.2 is not intended to cover machinery, tools or equipment owned or rented by the Contractor that are utilized in the performance of the Work but not incorporated into the permanent improvements. The Contractor shall, at the Contractor's own expense, provide insurance coverage for owned or rented machinery, tools or equipment, which shall be subject to the provisions of Section 11.3.

N. 11.1.2.1 PERFORMANCE AND PAYMENT BOND

1. Add Section 11.1.2.1 to Section 11.1.2:

- a. .2.1 The Contractor shall furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder. Bonds may be obtained through the Contractor's usual source, and the cost thereof shall be included in the Contract Sum. The amount of each bond shall be equal to 100% of the Contract Sum.
- b. .2.2 The Contractor shall deliver the required bonds to the Owner not later than five business days following the date the Agreement is entered into, or if the Work is to be commenced prior thereto in response to a letter of intent, the Contractor shall, prior to the commencement for the Work, submit evidence satisfactory to the Owner that such bonds will be furnished.
- c. .2.3. The Contractor shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of the power of attorney.

O. ARTICLE 13 MISCELLANEOUS PROVISIONS

- 1. Add the following Section 13.6:
 - a. 13.6: Truck and Traffic Restrictions:
 - 1) 13.6.1: Construction Truck Traffic is not allowed on the existing Firehouse Site which will stay in operations during construction of new house.
 - 2) 13.6.2: Traffic Control shall include Flagmen to stop traffic as needed for deliveries, and advance warning signs indicating that construction vehicles are entering and leaving the site.
- 2. Add the following Section 13.7
 - a. 13.7 Firearms
 - 1) 13.7.1: There shall be absolutely no firearms carried by any individual on any Owner's work site.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

3.01 END OF DOCUMENT

END OF SECTION

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**SECTION 01 10 00
SUMMARY**

PART 1 GENERAL

1.01 PROJECT

- A. Project: **Central County Fire & Rescue, House #06.**
- B. Owner's Representative: **John LeDoux, Assistant Chief.**
- C. Architect: **Archimages, Inc.**
- D. Architect's Representative: **Joe McKinney**

1.02 CONTRACT DESCRIPTION

- A. Contract Type: Single Prime Contract, Standard Form of Agreement, where basis of Payment is a **Stipulated Sum.**

1.03 DESCRIPTION, SCOPE OF WORK

- A. Scope of Work, this particular Project, as delineated within Contract Documents.

1.04 WORK BY OWNER; "NOT APPLICABLE, THIS PARTICULAR PROJECT"

1.05 OWNER OCCUPANCY

- A. Owner intends to occupy Project **immediately**, upon previously established Project Substantial Completion Date, **no later than 1:00 p.m. local time.**
- B. Owner intends to occupy select portions of Project, prior to previously established Project Substantial Completion Date.
- C. Fully cooperate, coordinate with Owner's Representative, as required to eliminate any conflicts, facilitate Owner's Business Operations.
- D. Schedule, execute entire Project Scope of Work, as required to accommodate Owner's immediate occupancy of same.

1.06 CONTRACTOR USE OF EXISTING PROJECT SITE

- A. Construction Operations:
 - 1. Coordinate, conduct all Construction activities only in ways that will limit disturbance to Existing Project Site.
- B. Facilitate use of Existing Project Site as required to allow:
 - 1. Owner Occupancy.
 - 2. Work by Others.
 - 3. Use of Existing Project Site by General Public.
- C. Provide access to and from Existing Project Site as required by Law, Owner and those Local Authorities having Jurisdiction.
 - 1. Emergency Building Exits, During Construction: Keep all exits required by code open during entire Construction period.
 - 2. **Do not** obstruct any roadways, sidewalks or public ways.
- D. Existing building environments **may not** be used.
- E. Time Restrictions:
 - 1. Limit all loud, noisy Work to local hours between 8:00 a.m. and 5:00 p.m.

- F. Utility Outages and Shutdown:
1. Limit all disruptions of any Utility Services to those hours Existing Project Site is unoccupied.
 2. **Do not** disrupt, shut down any life safety systems, including but not limited to fire sprinklers, fire alarm system, without first providing minimum (20) Twenty Business Days notice to both Owner and those Local Authorities having Jurisdiction.
 3. Limit shutdown of any Utility Services to maximum (4) Four hours at a time, scheduled with minimum (10) Ten Business Days notice to Owner and those Local Authorities having Jurisdiction.
 4. **Do not** allow any accidental disruption of Utility Services.

1.07 WORK SEQUENCE

- A. **Entire Project Scope of Work shall be implemented within multiple phases (as depicted within Civil documents).**
- B. Coordinate Entire Construction Schedule, including all Existing Project Site operations with Owner's Representative, Architect and those Local Authorities Having Jurisdiction, prior to the commencement of any Work.

1.08 SPECIFICATION SECTIONS APPLICABLE TO EVERY CONTRACT

- A. Provisions of those Sections listed below shall apply to each Contract.
- B. Section 01 20 00 - Price and Payment Procedures.
- C. Section 01 21 00 - Allowances.
- D. Section 01 22 00 - Unit Prices.
- E. Section 01 23 00 - Alternates.
- F. Section 01 30 00 - Administrative Requirements.
- G. Section 01 40 00 - Quality Requirements.
- H. Section 01 50 00 - Temporary Facilities and Controls.
- I. Section 01 60 00 - Product Requirements.
- J. Section 01 70 00 - Execution and Closeout Requirements.
- K. Section 01 78 00 - Closeout Submittals.

1.09 CONTRACT CONSTRUCTION

- A. Division 01 - General Requirements:
1. Those Specification Sections listed above.
 2. Provide multiple Construction Debris receptacles and remove all debris, refuse from Existing Project Site on a daily basis.
 3. Provide Erosion control structures as directed by Civil Engineer, Architect.
 4. Provide Temporary water control as directed by Civil Engineer, Architect.
 5. Provide thorough Final cleaning of entire Existing Project Site as directed by Architect, Owner's Representative.
- B. Execute, provide entire Project Scope of Work.

PART 2 PRODUCTS; " NOT APPLICABLE, THIS PARTICULAR PROJECT"

PART 3 EXECUTION; "NOT APPLICABLE, THIS PARTICULAR PROJECT"

END OF SECTION

**SECTION 04 26 13
MASONRY VENEER**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Masonry Veneer.

1.02 RELATED REQUIREMENTS

- A. Section 04 43 13 - Stone Masonry Veneer.
- B. Section 05 40 00 - Cold-Formed Metal Framing.
- C. Section 05 50 00 - Metal Fabrications.
- D. Section 06 10 00 - Rough Carpentry.
- E. Section 07 62 00 - Sheet Metal Flashing and Trim.
- F. Section 07 92 00 - Joint Sealants.

1.03 REFERENCE STANDARDS; " USE CURRENT EDITION, ONLY"

- A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023.
- B. ASTM A240/A240M - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications; 2025a.
- C. ASTM A580/A580M - Standard Specification for Stainless Steel Wire; 2023.
- D. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement; 2022.
- E. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire; 2019 (Reapproved 2025).
- F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2025a.
- G. ASTM A666/A666M - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2024.
- H. ASTM A951/A951M - Standard Specification for Steel Wire for Masonry Joint Reinforcement; 2026.
- I. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2022.
- J. ASTM B370 - Standard Specification for Copper Sheet and Strip for Building Construction; 2022.
- K. ASTM C55 - Standard Specification for Dry-Cast Concrete Building Brick; 2025.
- L. ASTM C67/C67M - Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile; 2025.
- M. ASTM C73 - Standard Specification for Calcium Silicate Brick (Sand-Lime Brick); 2023.
- N. ASTM C90 - Standard Specification for Dry-Cast Loadbearing Concrete Masonry Units; 2024a.
- O. ASTM C91/C91M - Standard Specification for Masonry Cement; 2025.
- P. ASTM C126 - Standard Specification for Ceramic Glazed Structural Clay Facing Tile, Facing Brick, and Solid Masonry Units; 2022.
- Q. ASTM C129 - Standard Specification for Dry-Cast Nonloadbearing Concrete Masonry Units; 2025.
- R. ASTM C144 - Standard Specification for Aggregate for Masonry Mortar; 2025.
- S. ASTM C150/C150M - Standard Specification for Portland Cement; 2022.

- T. ASTM C207 - Standard Specification for Hydrated Lime for Masonry Purposes; 2024.
- U. ASTM C216 - Standard Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale); 2024.
- V. ASTM C270 - Standard Specification for Mortar for Unit Masonry; 2025b.
- W. ASTM C404 - Standard Specification for Aggregates for Masonry Grout; 2024.
- X. ASTM C476 - Standard Specification for Grout for Masonry; 2023.
- Y. ASTM C652 - Standard Specification for Hollow Brick (Hollow Masonry Units Made from Clay or Shale); 2022.
- Z. ASTM C744 - Standard Specification for Prefaced Concrete and Calcium Silicate Masonry Units; 2021.
- AA. ASTM C979/C979M - Standard Specification for Pigments for Integrally Colored Concrete; 2024.
- BB. ASTM C1405 - Standard Specification for Glazed Brick (Single Fired, Brick Units); 2020a.
- CC. ASTM C1634 - Standard Specification for Dry-Cast Concrete Facing Brick and Other Concrete Masonry Facing Units; 2025.
- DD. ASTM D226/D226M - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 2025.
- EE. ASTM D4637/D4637M - Standard Specification for EPDM Sheet Used in Single-Ply Roof Membrane; 2015, with Editorial Revision (2022).
- FF. BIA Technical Notes No. 28B - Brick Veneer/Cold-Formed Steel Framed Walls; 2025.
- GG. BIA Technical Notes No. 7 - Water Penetration Resistance – Design and Detailing; 2017.
- HH. BIA Technical Notes No. 46 - Maintenance of Brick Masonry; 2017.
- II. TMS 402/602 - Building Code Requirements and Specification for Masonry Structures; 2022, with Errata (2024).
- JJ. UL (FRD) - Fire Resistance Directory; Current Edition.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene (2) two weeks prior to scheduled start of any Work, this Section.

1.05 SUBMITTALS

- A. Reference Section 01 30 00 - Administrative Requirements, for additional Content.
- B. Product Data: Provide data for masonry units, fabricated wire reinforcement, and mortar.
- C. Samples: Provide multiple Product Samples, per Architect's direction, as required to accurately illustrate construction, color range and texture.
- D. Manufacturer's Certificate: Certify that masonry units meet or exceed all requirements delineated within Contract Documents.
- E. Maintenance Materials: Furnish the following for Owner's use in maintenance of Project.
 - 1. Reference Section 01 60 00 - Product Requirements, for additional Content.

1.06 QUALITY ASSURANCE

- A. Fully comply with all provisions of TMS 402/602.
 - 1. Maintain (1) one copy, each document upon Existing Project Site.
- B. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section with minimum three years of documented experience.
- C. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

1.07 MOCK UP

- A. Construct masonry wall upon Existing Project Site, as mock up panel, sized 8 feet long by 6 feet high; including mortar, structural back up, flashings and all necessary accessories.
- B. Locate as directed by Architect.
- C. **Mock up may not remain as part of permanent Work, this particular Project.**

1.08 DELIVERY, STORAGE, HANDLING

- A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.
- B. Handle and store ceramic glazed masonry units in protective cartons or trays. **Do not** remove from protective packaging until ready for installation.

1.09 FIELD CONDITIONS

- A. Cold and Hot Weather Requirements: Fully comply with all requirements, TMS 402/602 or applicable Local building codes, whichever is more stringent.
- B. Maintain all materials, surrounding air temperature to minimum (50) Fifty degrees Fahrenheit prior to, during and (72) Seventy Two hours, immediately following completion of all Work, this Section.
- C. Maintain materials and surrounding air temperature to maximum (80) Eighty degrees Fahrenheit prior to, during and (72) Seventy Two hours, immediately following completion of all Work, this Section.

PART 2 PRODUCTS

2.01 UNIT MASONRY, GENERAL

- A. Fully comply with all applicable codes and or those Local Authorities having Jurisdiction.

2.02 BRICK UNITS

- A. Manufacturers:
 - 1. BrickCraft; www.brickcraft.com.
 - 2. Endicott Clay Products Co; Face Brick: www.endicott.com.
 - 3. General Shale Brick: www.generalshale.com.
 - 4. Meridian Brick LLC: www.meridianbrick.com.
 - 5. Metro Brick: www.metrothinbrick.com.
 - 6. Substitutions: Reference Section 01 60 00 - Product Requirements for additional Content.
- B. Facing Brick: ASTM C216, Type FBS Smooth, Grade SW.
 - 1. Color and texture; as selected by Architect from Manufacturer's full range of options.
 - 2. Nominal Size: As indicated within Contract Documents.
 - 3. Special Shapes: Molded units as required by this particular Project, unless those units can be field manufactured, as required to produce equivalent effect.

2.03 MORTAR, GROUT MATERIALS

- A. Masonry Cement: ASTM C91/C91M Type N.
 - 1. Product:
 - 2. Substitutions: Reference Section 01 60 00 - Product Requirements for additional Content.
- B. Portland Cement: ASTM C150/C150M, Type I; Color as selected by Architect from Manufacturer's full range of options.
- C. Hydrated Lime: ASTM C207, Type S.
- D. Mortar Aggregate: ASTM C144.
- E. Grout Aggregate: ASTM C404.
- F. Pigments for Colored Mortar: Pure, concentrated mineral pigments specifically intended for mixing into mortar and complying with ASTM C979/C979M.

1. Color(s): As selected by Architect from Manufacturer's full range of options.
2. Manufacturers:
 - a. Davis Colors, a division of Venator Materials PLC: www.daviscolors.com.
 - b. Lambert Corporation: www.lambertusa.com.
 - c. Solomon Colors, Inc: www.solomoncolors.com.
 - d. Substitutions: See Section 01 60 00 - Product Requirements.

G. Water: **Clean and potable.**

2.04 REINFORCEMENT, ANCHORAGE

- A. Reinforcing Steel: ASTM A615/A615M, Grade 40 (40,000 psi) yield strength, deformed billet bars; galvanized.
- B. Joint Reinforcement Type: Use ladder type joint reinforcement where vertical reinforcement is involved and truss type elsewhere, unless directed otherwise by Architect.
- C. Joint Reinforcement Standard: ASTM A951/A951M.
 1. Type: Truss or ladder.
 2. Material: ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M Class 3.
 3. Size: 0.1483 inch side rods with 0.1483 inch cross rods; width as required to provide not less than 5/8 inch of mortar coverage on each exposure.
 4. Manufacturers:
 - a. 3GEN Masonry Products: www.3genmp.com.
 - b. Blok-Lok Limited: www.blok-lok.com.
 - c. Hohmann & Barnard, Inc; HB 213 Veneer Anchor: www.h-b.com.
 - d. WIRE-BOND; Reinforcement and Anchorage: www.wirebond.com.
 - e. Substitutions: Reference Section 01 60 00 - Product Requirements for additional Content.
- D. Masonry Veneer Anchors: (2) Two piece anchors that permit differential movement between masonry veneer and structural backup, hot dip galvanized to ASTM A 153/A 153M, Class B.
 1. Anchor plates: Not less than 0.075 inch thick, designed for fastening to structural backup through sheathing by two fasteners; provide design with legs that penetrate sheathing and insulation to provide positive anchorage.
 2. Wire ties: Manufacturer's standard shape, 0.1875 inch thick.
 3. Vertical adjustment: Not less than 3-1/2 inches.
 4. Seismic Feature: Provide lip, hook, or clip on end of wire ties to engage or enclose not less than one continuous horizontal joint reinforcement wire of 0.1483 inch diameter.
 5. Manufacturers:
 - a. 3GEN Masonry Products; H-13: www.3genmp.com.
 - b. Hohmann & Barnard, Inc: www.h-b.com.
 - c. TruFast Walls, a division of Altenloh, Brinck & Co. US, Inc; Thermal-Grip MVA: www.trufastwalls.com.
 - d. WIRE-BOND: www.wirebond.com.
 - e. Substitutions: Reference Section 01 60 00 - Product Requirements for additional Content.
- E. Strap Anchors: Bent steel shapes, 1-1/2-inch width, 0.105-inch thickness, 24-inch length; with 1-1/2 inches long, 90-degree bend at each end to form U or Z shape or with cross pins; hot-dip galvanized in accordance with ASTM A153/A153M Class B.
 1. Manufacturers:
 - a. 3GEN Masonry Products; Barrel Anchor Metal: www.3genmp.com.
 - b. Substitutions: Reference Section 01 60 00 - Product Requirements for additional Content.
- F. Metal to Metal Fasteners: Self drilling, self tapping screws; corrosion resistant finish or hot dip galvanized to ASTM A153/A153M.

1. Manufacturers:
 - a. ITW Commercial Construction North America; Teks Select Series: www.ITWBuildex.com.
 - b. Substitutions: Reference Section 01 60 00 - Product Requirements for additional Content.

2.05 FLASHINGS

- A. Metal Flashing Materials:
 1. Copper Flashing: ASTM B370, 060 soft annealed; 20 oz/sq ft thick; natural finish.
 2. Prefabricated Metal Flashing: Smooth fabricated 12 oz/sq ft copper flashing for surface mounted conditions.
 - a. Manufacturers:
 - 1) Cheney Flashing Company: www.cheneyflashing.com.
 - 2) Hohmann & Barnard, Inc: www.h-b.com.
 - 3) WIRE-BOND: www.wirebond.com.
 - 4) Substitutions: Reference Section 01 60 00 - Product Requirements for additional Content.
- B. Combination Asphaltic Flashing Materials, Copper:
 1. Copper/Asphalt Flashing: 3 oz/sq ft copper sheet coated with elastic asphalt compound on both sides.
 - a. Manufacturers:
 - 1) WIRE-BOND: www.wirebond.com.
 - 2) Substitutions: Reference Section 01 60 00 - Product Requirements for additional Content.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify all field conditions are acceptable, ready to receive Work, this Section.
- B. Confirm all related items provided via other Sections are properly sized and located.
- C. Verify all built-in items are in proper location, and ready for roughing into Work, this Section.

3.02 COURSING

- A. Establish lines, levels, and coursing indicated. Protect from displacement.
- B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
- C. Concrete Masonry Units:
 1. Coursing: One unit and one mortar joint to equal 8 inches.
 2. Mortar Joints: Concave.
- D. Brick Units:
 1. Bond: Running.
 2. Mortar Joints: Concave.

3.03 PLACING, BONDING

- A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.
- B. Lay hollow masonry units with face shell bedding on head and bed joints.
- C. Buttering corners of joints or excessive furrowing of mortar joints is not permitted.
- D. **Remove all excess mortar as work progresses.**
- E. Interlock intersections and external corners, except for units laid in stack bond.
- F. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.

- G. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.
- H. Isolate top joint of masonry veneer from horizontal structural framing members or support angles with compressible joint filler.

3.04 WEEPS, CAVITY VENTS

- A. Install weeps within veneer walls, at (24) Twenty Four inches on center horizontally, on top of through wall flashing, above shelf angles, lintels and at bottom of said walls.
- B. Install cavity vents within veneer walls, at (32) Thirty Two inches on center horizontally, below shelf angles, lintels and at top of said walls. below shelf angles and lintels and at top of walls

3.05 CAVITY MORTAR CONTROL

- A. **Do not permit any mortar to drop, accumulate within cavity air space or plug any weep, cavity vents.**
- B. For cavity walls, build inner wythe ahead of outer wythe to accommodate accessories.
- C. Install cavity mortar control panels continuously throughout full height of exterior masonry cavities during construction of exterior wythe, complying with manufacturer's installation instructions.
 - 1. Verify that airspace width is no more than 3/8 inch greater than panel thickness.
 - 2. Hold cavity mortar control panel tight to face wythe.
 - 3. Install horizontally between joint reinforcement.
 - 4. Stagger end joints in adjacent rows.
 - 5. Fit to perimeter construction and penetrations without voids.
- D. Install cavity mortar diverter at base of cavity and at those other flashing locations as recommended by Manufacturer, as required to prevent mortar droppings from blocking any weep, cavity vents.

3.06 REINFORCEMENT ANCHORAGE, MASONRY VENEER

- A. Install horizontal joint reinforcement 16 inches on center.
- B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches each side of opening.
- C. Place continuous joint reinforcement in first and second joint below top of walls.
- D. Embed longitudinal wires of joint reinforcement in mortar joint with at least 5/8 inch mortar cover on each side.
- E. Lap all joint reinforcement minimum (8) Eight inches.
- F. Masonry Back Up: Embed anchors to bond veneer at maximum 16 inches on center vertically and 36 inches on center horizontally. Place additional anchors at perimeter of openings and ends of panels, so maximum spacing of anchors is 8 inches on center.
- G. Masonry Back Up: Embed anchors in masonry back-up to bond veneer at maximum 1.77 sq ft of wall surface per anchor. Place additional anchors at perimeter of openings and ends of panels, so maximum spacing of anchors is 8 inches on center.
- H. Stud Back Up: Secure veneer anchors to stud framed back-up and embed into masonry veneer at maximum 16 inches on center vertically and 24 inches on center horizontally. Place additional anchors at perimeter of openings and ends of panels, so maximum spacing of anchors is 8 inches on center.
- I. Stud back Up: Secure veneer anchors to stud framed back-up and embed into masonry veneer at maximum 1.77 sq ft of wall surface per anchor. Place additional anchors at perimeter of openings and ends of panels, so maximum spacing of anchors is 8 inches on center.
- J. Seismic Reinforcement: Connect veneer anchors with continuous horizontal wire reinforcement before embedding anchors in mortar.

- K. Reinforce stack bonded unit joint corners and intersections with strap anchors 16 inches on center.

3.07 MASONRY FLASHINGS

- A. Whether or not specifically indicated, install masonry flashing, as required to divert water to exterior at all locations where downward flow of water will be interrupted.
 - 1. Extend flashings full width at such interruptions and at least 6 inches, minimum, into adjacent masonry or turn up at least 1 inch, minimum, to form watertight pan at non masonry construction.
 - 2. Remove or cover protrusions or sharp edges that could puncture flashings.
 - 3. Seal lapped ends and penetrations of flashing before covering with mortar.
- B. Terminate flashing up 8 inches minimum on vertical surface of backing:
 - 1. Install vertical leg of flashing behind water-resistive barrier sheet over backing.
 - 2. Install vertical leg of flashing over fluid-applied or self-adhered air/vapor barriers over backing or per manufacturer's directions.
 - 3. Terminate vertical leg of flashing into bed joint in masonry or reglet in concrete.
 - 4. Anchor vertical leg of flashing into backing with a termination bar and sealant.
 - 5. Apply cap bead of sealant on top edge of self-adhered flashing.
- C. Install all flashing in full accordance with Manufacturer's written instructions.
- D. Extend metal flashings through exterior face of masonry and terminate in an angled drip with hemmed edge. Install joint sealer below drip edge to prevent moisture migration under flashing.
- E. Extend metal flashings to within 1/2 inch of exterior face of masonry and adhere to top of stainless steel angled drip with hemmed edge.
- F. Support flexible flashings across gaps and openings.
- G. Extend all flashings to within 3/8 inch of exterior face, masonry and adhere to top of drip with continuous hemmed edge.
- H. Lap all end joints, flashings at least (8) Eight inches, minimum and seal watertight with flashing sealant, adhesive.

3.08 LINTELS

- A. Set all loose steel lintels at openings, this particular Project.
- B. Maintain minimum (8) Eight inch bearing, each side of opening.

3.09 CONTROL, EXPANSION JOINTS

- A. **Do not** continue horizontal joint reinforcement through control or expansion joints.
- B. Form control joint with a sheet building paper bond breaker fitted to one side of the hollow contour end of the block unit. Fill the resultant core with grout fill. Rake joint at exposed unit faces for placement of backer rod and sealant.
- C. Install preformed control joint device in continuous lengths. Seal butt and corner joints in accordance with Manufacturer's instructions.
- D. Size control joints as indicated on drawings; if not indicated, 3/8 inch wide, deep.
- E. Form all expansion joints as indicated within Contract Documents

3.10 TOLERANCES

- A. Maximum Variation From Unit to Adjacent Unit: 1/16 inch.
- B. Maximum Variation from Plane of Wall: 1/4 inch in 10 ft and 1/2 inch in 20 ft or more.
- C. Maximum Variation from Plumb: 1/4 inch per story non-cumulative; 1/2 inch in two stories or more.
- D. Maximum Variation from Level Coursing: 1/8 inch in 3 ft and 1/4 inch in 10 ft; 1/2 inch in 30 ft.
- E. Maximum Variation of Mortar Joint Thickness: Head joint, minus 1/4 inch, plus 3/8 inch.

3.11 CUTTING, FITTING

- A. Cut and fit, as required for all piping, conduit. Coordinate all with other Sections of Work, this particular Project as required to provide correct size, shape and locations.
- B. Obtain approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.

3.12 CLEANING

- A. Thoroughly remove all excess mortar, smears as Work, this Section, progresses.
- B. Replace all defective mortar, as required to match all adjacent Work.
- C. Thoroughly clean all Work, this Section.
- D. Use only non metallic tools within cleaning operations.

3.13 PROTECTION

- A. **Protect all Work, this Section from Damage.**
- B. **Replace all Damaged Work, this Section, immediately.**

END OF SECTION

SECTION 07 42 93
PREFORMED ALUMINUM SOFFIT PANELS, SOLID AND VENTED

PART 1 GENERAL

1.01 DESCRIPTION OF WORK

- A. This section covers the pre-finished, prefabricated Factory Manufactured Aluminum or Steel Soffit System. All metal trim, accessories, fasteners, insulation and sealants indicated on the drawings are part of this section
- B. Related Work Specified Elsewhere
 - 1. Roof Deck structural steel, flat roof systems, preformed metal standing seam roofing, perimeter edge systems, roof hatches, firestopping not included in this section.

1.02 QUALITY ASSURANCE

- A. Manufacturers and erector shall demonstrate experience of a minimum of five (5) years in this type of project.
- B. Sheet Metal Industry Standard: Comply with Sheet Metal and Air Conditioning Contractors National Association (SMACNA) *Architectural Sheet Metal Manual*.
- C. Panels shall be factory-produced only. No portable, installer-owned or installer-rented machines will be permitted.

1.03 SUBSTITUTIONS

- A. The material, products and equipment specified in this section establish a standard for required function, dimension, appearance and quality to be met by any proposed substitution.

1.04 SYSTEM DESCRIPTION

- A. Material to comply with Specifier Note: Choose from the below based on required gauge:
 - 1. ASTM B209 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate - .032 & .040 Aluminum
 - 2. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated by the Hot-Dip Process – 24 GA
 - 3. ASTM A792/A792M Standard Specification for Sheet Steel, 55% Aluminum-Zinc Alloy Coated by the Hot-Dip process – 22 GA

1.05 SOFFIT SYSTEM PERFORMANCE TESTING

- A. Soffit System shall be designed to meet Standard Building Code wind load requirements.
- B. The Soffit System shall be designed to meet applicable Local Building Code and the Soffit System shall have been tested by the Manufacturer per ASTM E-330 and have the applicable Load Tables published from this Air Bag testing for negative loads.

1.06 WARRANTIES

- A. Finish warranty: Manufacturer's standard form in which manufacturer agrees to repair finish or replace soffit panels that show evidence of deterioration of factory-applied finish within specified warranty period.
 - 1. Exposed Panels Finish – deterioration includes the following:
 - a. Color fading more than 5 hunter units when tested according to ASTM D 2244.
 - b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214
 - c. Cracking, checking, peeling or failing paint to adhere to bare metal.
- B. Warranty Period: 30 Years from the date of substantial completion.

1.07 SUBMITTALS

- A. Furnish detailed drawings showing profile and gauge of exterior sheets, location and type of fasteners, location, gauges, shape and method of attachment of all trim locations and types of sealants, and any other details as may be required for a weather-tight installation.

- B. Provide finish samples of all specified colors.
- C. LEED Submittals
 - 1. Product data for Credit MR 4.1 and credit MR 4.2: Indicating the percentages by weight of postconsumer and preconsumer recycled content for products having recycled content

1.08 DELIVERY, STORAGE AND HANDLING

- A. Deliver components, sheets, metal soffit panels and other manufactured items so as not to be damaged or deformed. Package metal soffit panels for protection during transportation and handling.
- B. Unload, store and erect metal soffit panels in a manner to prevent bending, warping, twisting and surface damage.
- C. Stack metal soffit panels on platforms or pallets, covered with suitable weather tight and ventilated covering. Store metal soffit panels to ensure dryness. Do not store metal soffit panels in contact with other materials that might cause staining, denting or other surface damage.
- D. Protect strippable protective coating on any metal coated product from exposure to sunlight and high humidity, except to the extent necessary for material installation.

1.09 PROJECT CONDITIONS

- A. Weather Limitations: proceed with installation only when existing and forecasted weather conditions permit metal roof panel work to be performed.
- B. Field Measurements: Verify actual dimensions of construction contiguous with metal roof panels by field measurements before fabrication

PART 2 PRODUCTS

2.01 PANEL DESIGN

- A. Soffit panels shall be Flush , in 12" widths with 1" height. Flush type panels can be specified in solid or with venting (.032 aluminum panels only) in the specified color (s).
- B. Panels to be produced smooth.
- C. Forming: Use continuous end rolling method. No end laps on panels. No portable roll forming machines will be permitted on this project, no installer-owned or installer-rented machines will be permitted. It is the intent of the Architect to provide Factory-Manufactured panel systems only for this project.

2.02 ACCEPTABLE MANUFACTURERS

- A. This project is specified around the roofing product of Petersen Aluminum Corporation, Flush Soffit Panel.
- B. Other acceptable manufacturers, if they comply with specification:
 - 1. IMETCO, Tucker, GA, Soffit Panel only.
 - 2. ATAL Aluminum, Allentown, PA, "Wind-Lock" Panel only.

2.03 MATERIALS AND FINISHES

- A. Preformed metal panels shall be fabricated of .032" thick 3105-H14 aluminum
 - 1. Color shall be selected from manufacturers full line of finishes.
- B. Finishes: Finish shall be Kynar 500 or Hylar 5000 Fluorocarbon coating with a top side film thickness of 0.70 to 0.90 mil over 0.25 to 0.31 mil prime coat to provide a total dry film thickness of 0.95 to 1.25 mil. Finish shall conform to tests for adhesion, flexibility and longevity as specified by Kynar 500 or Hylar 5000 finish supplier.
- C. Panels in 032 aluminum only can be specified as "wide" or "narrow" vented. Steel panels may not be vented.
- D. Field protection must be provided by the Contractor at the job site, so material is not exposed to weather and moisture.

- E. If any strippable film coating is applied to any pre-finished panels or materials for protection during shipping, strippable film shall be removed prior to installation.
- F. Forming: use continuous and rolling method. No end laps on panels. No "portable roll forming" machines will be permitted on this project; no installer-owned or installer-rented machines shall be permitted. It is the intent of the Architect to provide Factory-Manufactured soffit systems only for this project.
- G. Trim: Trim shall be fabricated of the same material and finish to match the profiled sheeting and press broken in lengths of 10 – 12 feet. Trim shall be formed only by the manufacturer or their approved dealer. Trim to be erected in overlapped condition. Use lap strips only as indicated on drawings. Miter conditions shall be factory welded material to match the sheeting.
- H. Accessories/Fasteners: Fasteners shall be of type, material, size, corrosion resistance, holding power and other properties required to fasten miscellaneous framing members to substrates. Accessories and their fasteners shall be capable of resisting the specified design wind uplift forces and shall allow for thermal movement of the wall panel system. Exposed fasteners shall not restrict free movement of the roof panel system resulting from thermal forces, except at designed points of roof panel fixity.
- I. Miscellaneous Metal Sub framing and Furring: ASTM C 645, cold-formed, metallic-coated steel sheet, ASTM A 653/A 653M, **G90** hot-dip galvanized coating designation or ASTM A 792/A 792M, **Class AZ50** aluminum-zinc-alloy coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.
- J. Zees: Where required by design of primary structural framing system, zees shall be used to span between beams and/or other joists. Thermally responsive base and top clips shall be fastened to the zees on 12" centers.

2.04 SEALANTS

- A. Provide two-part polysulfide class B non-sag type for vertical and horizontal joints or
- B. One part polysulfide not containing pitch or phenolic extenders or
- C. Exterior grade silicone sealant recommended by roofing manufacturer or
- D. One-part non-sag, gun grade exterior type polyurethane recommended by the roofing manufacturer.

2.05 FABRICATION

- A. Comply with dimensions, profile limitations, gauges and fabrication details shown and if not shown, provide manufacturer's standard product fabrication.
- B. Fabricate components of the system in factory, ready for field assembly.
- C. Fabricate components and assemble units to comply with fire performance requirements specified.
- D. Apply specified finishes in conformance with manufacturer's standard, and according to manufacturer's instructions.

PART 3 EXECUTION

3.01 INSPECTION

- A. Examine alignment of structural steel and related supports, primary and secondary roof framing, solid roof sheathing, prior to installation.
- B. For the record, prepare a written report, endorsed by the installer, listing conditions detrimental to performance of the Work.

- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 FASTENERS

- A. Secure units to support.
- B. Place fasteners as indicated in manufacturer's standards.

3.03 INSTALLATION

- A. Panels shall be installed plumb and true in a proper alignment and in relation to the structural framing. The erector must have at least five years successful experience with similar applications.
- B. Install soffit panels, fasteners, trim and related sealants in accordance with approved shop drawings and as may be required for a weather-tight, complete and architecturally pleasing installation.
- C. Remove all strippable coating and provide a dry wipe down cleaning of the panels as they are erected.
- D. Panels attached to any TREATED LUMBER MUST HAVE AN APPROPRIATE VAPOR BARRIER INSTALLED OVER THE TREATED LUMBER PRIOR TO INSTALLING ANY SOFIT PANELS OR RELATED FLASHINGS. DO NOT ALLOW ANY METAL PRODUCTS TO COME INTO DIRECT CONTACT WITH TREATED LUMBER

3.04 DAMAGED MATERIAL

- A. Upon determination of responsibility, repair or replace damaged metal panels and trim to the satisfaction of the Architect and Owner.

END OF SECTION

SECTION 07 71 23
MANUFACTURED GUTTERS AND DOWNSPOUTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Manufactured Gutters and Downspouts.

1.02 RELATED REQUIREMENTS

- A. Section 05 50 00 - Metal Fabrications.
- B. Section 07 62 00 - Sheet Metal Flashing and Trim.
- C. Section 09 91 13 - Exterior Painting.

1.03 REFERENCE STANDARDS; "USE CURRENT EDITION, ONLY "

- A. AAMA 611 - Specification for Anodized Architectural Aluminum; 2024.
- B. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.
- C. AAMA 2604 - Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.
- D. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.
- E. ASTM A48/A48M - Standard Specification for Gray Iron Castings; 2022.
- F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2025a.
- G. ASTM A666/A666M - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2024.
- H. ASTM B32 - Standard Specification for Solder Metal; 2020.
- I. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a.
- J. ASTM B370 - Standard Specification for Copper Sheet and Strip for Building Construction; 2022.
- K. ASTM D2665 - Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings; 2025.
- L. ASTM D4479/D4479M - Standard Specification for Asphalt Roof Coatings - Asbestos-Free; 2007 (Reapproved 2024).
- M. CDA A4050 - Copper in Architecture - Handbook; Current Edition.
- N. SMACNA (ASMM) - Architectural Sheet Metal Manual; 2012.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Fully comply with SMACNA (ASMM) for sizing components for rainfall intensity determined by a storm occurrence of 1 in 5 years.
- B. Fully comply with applicable code for size and method of rain water discharge.
- C. Maintain one copy of each document on site.

1.05 SUBMITTALS

- A. Reference Section 01 30 00 - Administrative Requirements for additional Content.
- B. Product Data: Provide detailed Product Data all prefabricated components, particular to this Project.

- C. Shop Drawings: Provide detailed locations, configurations, jointing methods, fastening methods and installation details, particular to this Project.
- D. Samples: Submit (2) two Product Sample, Manufacturer's standard size, as required to accurately represent construction, finish, color and configuration.

1.06 DELIVERY, STORAGE, HANDLING

- A. Coordinate with those Local Authorities having Jurisdiction for all applicable packaging waste requirements.
- B. Stack all materials, as required to prevent any twisting, bending, or abrasion and provide proper ventilation. Slope as required to properly drain.
- C. Prevent any contact with materials, that might cause discoloration, staining or damage.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Gutters and Downspouts:
 - 1. PAC-CLAD: www.pac-clad.com.
 - 2. Alside, Inc.: www.alside.com.
 - 3. ATAS International, Inc. www.atas.com.
 - 4. Hickman Edge Systems; Wind Resistant Gutter: www.hickmanedgesystems.com.
 - 5. Metal-Era Inc; Seal-Tite WR Gutter: www.metalera.com.
 - 6. Substitutions: Reference Section 01 60 00 - Product Requirements for additional Content.
- B. Scupper and Collectors:
 - 1. ATAS International, Inc.: www.atas.com.
 - 2. Substitutions: Reference Section 01 60 00 - Product Requirements for additional Content.

2.02 MATERIALS

- A. Aluminum Sheet: ASTM B209/B209M.
 - 1. Finish: Mill.
 - 2. Color: Custom color as selected by architect.
- B. Pre Finished Aluminum Sheet: ASTM B209/B209M; 0.032 inch thick.
 - 1. Finish: Plain, shop pre-coated with modified silicone coating.
 - 2. Color: Custom color as selected by architect.
- C. Primer: Zinc molybdate type.
- D. Protective Backing Paint: Zinc molybdate alkyd.
- E. Solder: ASTM B32; Sn50 (50/50) type.

2.03 COMPONENTS

- A. Gutters: Style, profile as delineated within Contract Documents.
- B. Downspouts: CDA rectangular profile.
- C. Anchors and Supports: Profiled to suit gutters and downspouts.
 - 1. Anchoring Devices: In accordance with CDA requirements.
 - 2. Gutter Supports: Brackets.
 - 3. Downspout Supports: Brackets.
- D. Fasteners: Galvanized steel, with soft neoprene washers.

2.04 FABRICATION

- A. Form all gutters, downspouts of profiles, sizes as delineated within Contract Documents.
- B. Fabricate with required connection pieces.
- C. Form sections square, true, and accurate in size, in maximum possible lengths, free of distortion or defects detrimental to appearance or performance. Allow for expansion at joints.
- D. Hem all exposed edges of metal.

- E. Tin edges of copper sheet to be soldered. Solder shop formed metal joints. After soldering, remove flux. Wipe and wash solder joints clean. Weather seal joints.
- F. Fabricate gutter and downspout accessories; seal watertight.

2.05 FINISHES

- A. Class I Clear Anodized Finish: AAMA 611 AA-M12C22A41, clear anodic coating not less than 0.7 mil, 0.0007 inch thick.
- B. Class II Clear Anodized Finish: AAMA 611 AA-M12C22A31, clear anodic coating not less than 0.4 mil, 0.0004 inch thick.
- C. Class I Color Anodized Finish: AAMA 611 AA-M12C22A42, integrally colored anodic coating not less than 0.7 mil, 0.0007 inch thick.
- D. Class II Color Anodized Finish: AAMA 611 AA-M12C22A41, integrally colored anodic coating not less than 0.4 mil, 0.0004 inch thick.
- E. Modified silicone polyester coating: Baked enamel system, comply with AAMA 2603.
- F. Fluoropolymer Coating: High Performance Organic Finish, AAMA 2604, multiple coat, thermally cured fluoropolymer finish system; color as indicated.
- G. Primer Coat: Finish concealed side of metal sheets with primer compatible with finish system, as recommended by finish system manufacturer.

2.06 ACCESSORIES

- A. Splash Pans: Same metal type as downspouts, rolled sides as required for inverted pan placement.
- B. Splash Pads: Precast concrete type, profiles size(s) as indicated; minimum 3,000 psi compressive strength at 28 days, with minimum 5 percent air entrainment.
- C. Downspout Boots: Smooth interior without boxed corners or choke points; include integral lug slots and on-body cleanout and cover with neoprene gaskets.
 - 1. Configuration: Angular.
 - 2. Material: Cast iron; ASTM A48/A48M. Casting thickness 3/8 inch minimum.
 - 3. Finish: Manufacturer's factory applied powder coat finish.
 - 4. Color: As selected by Architect from Manufacturer's full range of options
 - 5. Accessories: Manufacturer's standard stainless steel fasteners, stainless steel building wall anchors, and rubber coupling.
 - 6. Products:
 - a. Downspoutboots.com, a division of J. R. Hoe & Sons: www.downspoutboots.com.
 - b. Substitutions: Reference Section 01 60 00 - Product Requirements for additional Content.

PART 3 EXECUTION

3.01 EXAMINATION, PROTECTION

- A. Verify all existing conditions, prior to commencing any Work, this Section.
- B. Confirm all surfaces are ready to receive Work, this Section, before beginning any Work, this Section.
- C. **Protect all Work, this Section, from Damage.**
- D. **Replace all Damaged Work, this Section, immediately.**

3.02 PREPARATION

- A. Paint concealed sheet metal surfaces and surfaces in contact with dissimilar metals with protective backing paint to a minimum dry film thickness of 15 mil, 0.015 inch.

3.03 INSTALLATION

- A. Install all gutters, downspouts, and accessories in full accordance with Manufacturer's written Instructions.

- B. **Slope all gutters**, as required for proper drainage.

END OF SECTION



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July 6, 2026

John LeDoux
Central County Fire & Rescue (CCFR)
1220 Cave Springs Boulevard
Saint Peters, Missouri 63376

Attn: Roy Mangan
Archimages, Inc.
rmangan@archimages-stl.com

Subject: Geotechnical Exploration Report
Proposed CCFR#6 Fire Station and Pavement
1151 Jungs Station Road
Saint Charles, Missouri 63303
PSI Proposal No: 0040-478784_Rev1
PSI Project No. 0040547-1

Dear Mr. LeDoux:

Professional Service Industries, Inc (PSI), an Intertek Company, is pleased to transmit our Geotechnical Exploration Report for the proposed CCFR#6 Fire Station and Pavement to be located at 1151 Jungs Station Road, in Saint Charles, Missouri. This report includes the results of field exploration and laboratory testing, as well as recommendations for site preparation and foundation design.

If you have questions pertaining to this report, or if we may be of further service, please contact us at your convenience.

PSI thanks you for your business and we look forward to finding ways to grow our partnership, expand our services, and continue Building Better Together.

Respectfully Submitted,
PROFESSIONAL SERVICE INDUSTRIES, INC.

Tanzila Tabassum, PhD, PE
Project Manager

P. Chris Marshall, PE, BC.GE
Regional Engineer/Principal Consultant





REPORT OF GEOTECHNICAL EXPLORATION

Proposed CCFR#6 Fire Station and Pavement
1151 Jungs Station Road
Saint Charles, Missouri 63303

PSI Project Number: 0040547-1

Prepared for

Central County Fire & Rescue (CCFR)
1220 Cave Springs Boulevard
Saint Peters, Missouri 63376

Prepared by

Professional Service Industries, Inc.
11826 Borman Drive
Saint Louis, Missouri 63146

July 6, 2026

Tanzila Tabassum

Tanzila Tabassum, PhD., PE
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1. INTRODUCTION

Professional Service Industries, Inc. (PSI), an Intertek Company, has conducted a geotechnical engineering evaluation for the proposed CCFR#6 Fire Station and pavement to be located at 1151 Jungs Station Road, Saint Charles, Missouri. The purpose of our study was to characterize the subsurface strata at the proposed building location and to develop recommendations for site preparation and provide geotechnical parameters for foundation and pavement design. Our services on this project were provided in general accordance with the PSI Proposal Number 0040-478784-Rev1 dated May 22, 2026, authorized by Mr. John LeDoux of CCFR on May 26, 2026.

PSI's scope of services for the geotechnical study did not include an assessment of environmental conditions in the soil, bedrock, surface water, groundwater, or air, on or below, or around this site. Any statements in this report or on the boring logs regarding odors, colors, and unusual or suspicious items or conditions are strictly for informational purposes.

PSI did not provide any service to investigate or detect the presence of moisture, mold or other biological contaminants in or around any structure, or any service that was designed or intended to prevent or lower the risk of the occurrence of the amplification of the same. The client acknowledges that mold is ubiquitous to the environment with mold amplification occurring when building materials are impacted by moisture. Client further acknowledges that site conditions are outside of PSI's control, and that mold amplification will likely occur, or continue to occur, in the presence of moisture. As such, PSI cannot and shall not be held responsible for the occurrence or recurrence of mold amplification.

The report, which follows, presents a brief review of our understanding of the project, a discussion of the site and subsurface conditions encountered, and our recommendations for design and construction of foundations, pavements and slabs.



2. PROJECT INFORMATION

PSI was provided with the project information by Mr. Roy Mangan of Archimages, which included files titled "Central County Fire Station#6_Geotech Borings-2026-05-08.pdf" containing the proposed site and grading plan dated April 17, 2026. Based on the provided information, we understand the project will feature a new one-story fire station located south of the existing CCFR fire station, and associated pavement and parking improvements. The proposed building is anticipated to have an approximate footprint of 11,937 square feet.

The site is currently developed with an existing one-story CCFR building and associated pavement areas, which are currently in use. Based on the information provided, the proposed building will include two truck bays on the west side and two truck bays on the east side of the building. The existing building is anticipated to be demolished, and new pavement will be constructed in the area of the demolished structure.

Based on the information provided by the client, a retaining wall is planned along the north-west side of the proposed building. The retaining wall is anticipated to be approximately 360 feet in length with a maximum retained height of about 8 feet. Detailed retaining wall information, including wall type, surcharge loading, wall geometry, and structural design details, has not been provided to PSI at this time. Therefore, retaining wall design recommendations and dedicated geotechnical exploration for the retaining wall are not included within the current scope of this proposal. Additional geotechnical evaluation may be required depending on the final retaining wall design and project requirements.

Review of historical aerial imagery from Google Earth Pro indicates that the existing CCFR building and ancillary pavement areas were developed sometime prior to 1990. Aerial imagery from approximately 2002 indicates that grading activities and construction of pavement and parking areas occurred south of the existing CCFR building. Since that time, no significant site development or major site changes are apparent from the reviewed aerial imagery.

The property is bounded by existing buildings and parking areas to the north, Jungs Station Road to the east, vacant land and single-family residential development to the south, and Barnwell Middle School and vacant land to the west. The proposed development areas are currently covered with grass and existing concrete/asphalt pavement.

According to the grading plan provided by the client, existing ground surface elevations across the site range from approximately 569 feet to 560 feet, generally sloping downward from northeast to southwest. Within the proposed building footprint, existing elevations range from approximately 567 feet to 560 feet. Based on the information provided, the planned finished floor elevation is anticipated to be approximately 568 ½ feet. PSI anticipates maximum fills on the order of approximately 8 ½ feet within portions of the proposed building pad area, fills of approximately 3 to 4 feet along portions of the proposed pavement areas south of the building, and cuts of approximately 4 to 5 feet within portions of the proposed pavement areas north of the building.

Structural loads were not provided to PSI; however, based on understanding of this project, maximum isolated column loads of 100 kips, continuous wall loads of 6 kips per linear foot, and slab loads not exceeding 125 psf are anticipated.

The geotechnical recommendations presented in this report are based on the provided or anticipated project information and the subsurface materials described in this report. If the noted information is incorrect, please inform PSI in writing so that we may amend the recommendations presented in this report if appropriate and



if desired by the client. PSI will not be responsible for the implementation of its recommendations when it is not notified of changes in the project.

The following Figures show the current site and the proposed development:



Figure: Photo of the Existing Site

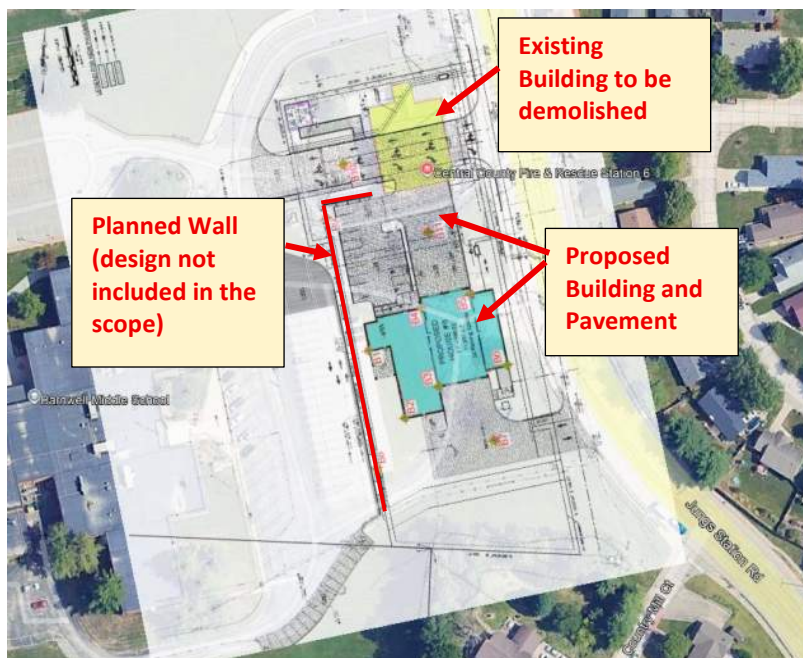


Figure: Photo of the Proposed Development



3. SUBSURFACE INFORMATION

3.1 GENERAL AREA GEOLOGY

A review of geological data from the United States Geological Survey (USGS) and the Missouri Department of Natural Resources indicates that the St. Charles area in eastern Missouri is located along the Missouri River floodplain near its confluence with the Mississippi River. The area is underlain by Quaternary-age alluvial deposits and loess-covered uplands. These unconsolidated materials, consisting primarily of clay, silt, sand, and gravel, were deposited by the Missouri River, Mississippi River, and their tributaries over thousands of years. The thickness and composition of these alluvial deposits can vary significantly across the floodplain, influencing groundwater conditions, drainage characteristics, and geotechnical behavior at the site.

Beneath the surficial alluvial and loess deposits, the regional bedrock geology consists primarily of sedimentary rock formations of Ordovician age, including dolomite, limestone, and sandstone units. Notable formations in the region include the Cotter Dolomite, Jefferson City-Cotter formations, Roubidoux Formation, and Gasconade Formation. These bedrock units were deposited in shallow marine environments during the Paleozoic Era and may locally contain fossils such as brachiopods, gastropods, and stromatolites.

The presence of alluvial deposits associated with the Mississippi River floodplain plays a critical role in soil behavior, site drainage, and construction planning in the St. Charles area, necessitating thorough geotechnical evaluation for development projects.

3.2 EXPLORATION PROCEDURES

The soil borings were performed using a CME-45C truck-mounted rotary head drill rig and were advanced with 3¼-inch inside diameter hollow-stem augers. Representative soil samples were obtained using split-spoon and thin-walled Shelby tube sampling procedures in general accordance with ASTM standards. Individual logs of the borings are presented in Appendix D.

It should be noted that the subsurface conditions shown on the boring logs represent conditions at the specific locations drilled. Variations should be anticipated across the site. The soil stratigraphy reflects approximate boundaries between different subsurface materials; these transitions may be gradual and indistinct. Groundwater level observations made during the field exploration, if any, are also included on the boring logs. Ground surface elevations were referenced from Google Earth and should be considered approximate.

3.3 SUBSURFACE PROFILE

The site subsurface conditions were explored with nine (9) soil test borings. Four borings (B-01 to B-04) were drilled in the approximate footprint of the proposed new building, two borings (B-05 and B-06) were drilled within the planned retaining wall area, and three borings (B-07 to B-09) were drilled within the proposed pavement areas (Figure below). The boring depths ranged from approximately 10 feet to 30 feet below the existing ground surface.



Figure: Boring Location Plan

The proposed boring locations and depths were reviewed with the client prior to drilling. PSI personnel staked the borings in the field using a non-survey grade handheld GPS. The locations should be considered accurate only to the degree implied by the means and methods used to define them. PSI's scope of services did not include surveying of the location or surface elevation of the borings. Surface elevations presented within this report were estimated based on publicly available topographic information obtained from the topographical drawing provided by the client. Therefore, the coordinates/locations of the borings and their estimated surface elevations as provided within this report and the Appendices should be considered approximate and are only provided as a general reference.

Approximately 4 inches of topsoil-like materials (grass and roots) were present at the ground surface of borings B-01 through B-04, B-07, and B-08. Approximately 6 inches of asphalt pavement underlain by approximately 4 inches of base rock was encountered at the ground surface in borings B-05, B-06, and B-09.

Fine-grained apparent fill was encountered in borings B-05, B-06, and B-09, beneath the asphalt pavement section and extended to depths of approximately 2½ to 5½ feet below existing grade. As the site has been previously developed, it is likely that the majority of the shallow materials have been disturbed or placed as fill during previous construction activities. In the absence of deleterious materials, it can be difficult to differentiate between disturbed in-situ soils and fill.

In all borings, below the asphalt pavement section, gravel base layer, or topsoil layer, fine-grained soils consisting of soft to stiff lean clay (CL) were encountered. These lean clay (CL) soils extended to depths ranging from approximately 10 to 18 feet below existing site grades. Below the lean clay (CL) soils, fine-grained soils consisting of medium stiff to hard fat clay (CH) were encountered. In boring B-08, alternating layers of lean clay (CL) and fat clay (CH) were observed.



Building borings B-01, B-02, and B-03, and planned retaining wall borings B-05 and B-06, were terminated upon auger refusal, which occurred at depths ranging from approximately 17 to 28½ feet below existing ground surface. The refusal materials generally appeared to consist of weathered limestone and shale.

The Boring Logs illustrated in Appendix D should be reviewed for specific information at individual boring locations. These records include soil descriptions, stratifications, penetration resistances, locations of the samples and laboratory test data.

3.4 WATER LEVEL MEASUREMENTS

Free water was observed in borings B-01, B-03, and B-06 at depths ranging from approximately 13 to 27 feet below the existing ground surface. Groundwater levels can fluctuate seasonally due to variations in rainfall, proximity to surface water bodies such as creeks or rivers, soil infiltration characteristics, and changes in land use or surface topography. In relatively impervious soils, such as clays, water levels observed in open boreholes may not provide an accurate representation of the actual groundwater table, even after several days. Perched water zones may also exist or develop within the overburden soils following construction activities. The groundwater conditions presented in this report reflect observations made at the time of field exploration. We recommend that the contractor confirm groundwater levels prior to construction and evaluate any potential impacts on construction methods and foundation performance.

3.5 LABORATORY TESTING

The soil samples obtained during the field exploration were transported to the laboratory and selected soil samples were tested in the laboratory to measure material properties for our geotechnical evaluation. Laboratory testing was accomplished in general accordance with ASTM and other applicable procedures. Laboratory testing was performed on selected samples to evaluate the classification, and other engineering characteristics of the subsurface materials. Laboratory test data along with detailed descriptions of the soils can be found on the logs of borings and in Appendix D. The samples that were not altered by laboratory testing will be retained for 90 days from the date of this report and then will be discarded without further notice.



4. GEOTECHNICAL EVALUATION AND RECOMMENDATIONS

The following geotechnical-related recommendations have been developed based on the subsurface conditions encountered and PSI's understanding of the proposed development. If changes in the project criteria occur, PSI should review the changes to determine whether modifications to the recommendations provided herein are required.

The following factors influenced the site preparation and foundation recommendations presented in this report:

- Variable site grading, including fills on the order of approximately 8 ½ feet within portions of the proposed building pad area, fills of approximately 3 to 4 feet within portions of the proposed pavement areas south of the building, and cuts of approximately 4 to 5 feet within portions of the proposed pavement areas north of the building;
- Presence of soft clays at relatively shallow depths;
- Moist to very moist soil conditions;
- Undocumented fill within the top 5½ feet;
- Design frost depth of 30 inches;
- Auger refusal encountered at depths ranging from approximately 17 to 28½ feet below existing ground surface; and
- Limited characterization of the auger refusal material.

Demolition of Existing Building

Based on the information provided to PSI, the existing building at the north of the site is planned to be demolished to accommodate the proposed new pavement. All components of the existing construction including walls, floor slabs, foundations, and any associated subgrade elements—should be completely removed. In addition, existing underground utilities that are to be abandoned should be fully removed or properly capped and grouted in accordance with project requirements.

PSI recommends that all demolition debris and unsuitable materials be removed from the site to avoid the presence of soft or uncontrolled fill zones that could adversely affect the performance of the new pavement. After demolition and debris removal, the site should be re-established to design grades using properly placed and compacted Engineered Fill.

Proposed Building Area

Based on the subsurface conditions encountered at this site and expected variable fill thicknesses in the proposed building area, shallow foundations and floor slabs supported on unimproved site soils may experience excessive total and differential settlement, which could result in building distress or damage. Therefore, shallow foundations and slabs supported directly on engineered fill over unimproved site soils are not considered a suitable foundation alternative.

Ground Improvement

PSI recommends that the proposed building be supported on shallow foundations and slabs in conjunction with a ground improvement system, such as aggregate piers, vibro stone columns, rammed aggregate piers, or rigid inclusions. The ground improvement system should be designed and constructed by a qualified specialty contractor to improve the underlying soft native soils and reduce the potential for excessive total and differential settlement.



Some ground improvement systems require a load transfer platform (LTP). PSI recommends that the earthwork contractor coordinate with the specialty ground improvement contractor prior to beginning site preparation so that subgrade preparation and Engineering Fill placement can be designed to meet any additional requirements (e.g. LTP) of the ground improvement specialty contractor.

Formal determination on the feasibility of each ground improvement system, and subsequent design, including allowable bearing pressure and settlement calculations for the system, should be performed by the specialty contractor after reviewing the subsurface information provided in this report and the design parameters and objectives for the planned structures.

PSI can refer you to Specialty Contractors for the methods mentioned above and, if desired, can assist with the evaluation of their technical proposals.

Pavement and Parking Areas

Surficial apparent undocumented fill materials were encountered in Borings B-08, and B-09. In pavement areas where undocumented fill materials are encountered, PSI recommends that such materials be undercut and replaced to provide at least 1 foot of approved Engineered Fill beneath the proposed pavement subgrade.



5. SITE GRADING RECOMMENDATIONS

The site should be stripped of vegetation and landscaping in the proposed development areas. If organic material and/or debris are encountered, it should be removed to the extent encountered and replaced with Engineered Fill. Loose soils or stockpiled soils resulting from the over-excavation may be incorporated and placed as Engineered Fill if it meets the recommended specifications. Trash and debris should be removed from the site and disposed of in accordance with local and state regulations. Over-excavation should be performed in accordance with our recommendations and should extend at least 5 feet beyond the building footprint, and at least 3 feet beyond the pavement footprint in all directions.

Following site stripping and excavation to design subgrade, the exposed grade should be proof rolled to identify potential areas of soft soils prior to placement of the Engineered Fill. The proof-roll should be conducted with a loaded tandem-axle dump truck or similar pneumatic-tired equipment with a minimum weight of 15 tons.

Excavations may be impacted by any perched groundwater. The contractor should evaluate groundwater levels prior to excavation and implement groundwater control and management techniques, as necessary, to maintain dry working conditions in the excavations.

5.1 ENGINEERED FILL

Engineered Fill should be free of organic or other deleterious materials, have a maximum particle size less than 3 inches, and have a liquid limit less than 40 and a plasticity index less than 20. Soils classified as CL, ML, CL-ML, SM, SC, SC-SM, SW, and GW are generally suitable for use as Engineered Fill provided, they are free of organic matter or debris. Soils classified as MH, CH, GC, GM, GP, SP, OL, OH, and PT should not be used.

On-site material can be reused as Engineered Fill if it meets the recommended specifications, it is properly mixed, cleaned of debris and deleterious material (if necessary), moisture conditioned and recompacted in accordance with Section 5.2 of this report.

5.2 FILL PLACEMENT AND TESTING

Engineered Fill placed shall be tested and documented by a geotechnical technician and directed by a geotechnical engineer to evaluate the placement of new fill material. The geotechnical engineer of record can only review the testing that is performed under the geotechnical engineer of record's direct supervision. In general, a separate Standard Proctor test should be performed for every change in material. The following table summarizes the recommended compactive effort for various types of fills.

MATERIAL TESTED	PROCTOR TYPE	MIN % DRY DENSITY	MOISTURE CONTENT RANGE	FREQUENCY OF TESTING*
Engineered Fill (Building and Pavement Area)	Standard	95%	-2 to +2 %	1 per 2,500 sq. ft of fill placed per lift
Utility Trench Backfill / Wall Backfill	Standard	95%	-2 to +2 %	1 per 100 lineal feet of trench per lift

*Minimum of 3 tests per lift



Fill material should be placed in maximum eight-inch loose lifts. A sample(s) of the proposed backfill soil(s) should be obtained for moisture density relationship (proctor test) three to four days prior to backfilling operations to expedite compaction and moisture content testing by the materials testing service provider.

Weather conditions in the site area are typically dry in the summer and early fall. While grading can be inhibited for short periods during and following times of precipitation, grading can generally be conducted year-round. The major factor that must be considered during the winter months is ground freezing. During extended periods of sub-freezing weather, it can be difficult to properly moisture conditions and compact soils. Grading must be conducted during the warmer parts of the day in freezing weather.



6. GEOTECHNICAL RECOMMENDATIONS

6.1 SHALLOW FOOTING FOUNDATIONS

The planned construction can be supported on conventional spread-type footing foundations if ground improvement elements are installed to improve the underlying soils. The ground improvement system should be designed by the specialty ground improvement contractor to meet the allowable bearing and settlement performance criteria established by the structural engineer. Minimum footing dimensions for isolated and continuous wall footings should be at least 24 inches and 18 inches, respectively.

Exterior footings and footings in unheated areas should be located at a depth of 30 inches or deeper below the final exterior grade to provide adequate frost protection. Interior footings within heated areas should be located at a depth of at least 18 inches. If the building is to be constructed during the winter months, footings should be protected from freezing.

The uplift capacity of shallow foundations should be limited to the weight of the foundation concrete plus the weight of the soil immediately above the footing. The base adhesion/frictional resistance and the passive soil resistance will resist the horizontal loads on shallow foundations. For a footing cast against natural clay soil or compacted soil, the adhesion/frictional resistance and the passive soil resistance values for both transient and sustained loading conditions are given herein. For transient loading conditions, an ultimate base adhesion resistance of 500 psf and an ultimate passive resistance of 1,000 psf can be used. For sustained loading conditions, a frictional co-efficient of 0.3 and an ultimate passive resistance of 120 psf per foot depth is recommended. A factor of safety of 2.0 is recommended to arrive at the allowable values. Passive resistance from the upper two feet of soil should be neglected. Also, the passive resistance of any un-compacted fill material should be neglected.

After the foundations have been excavated and inspected, steel reinforcement and concrete should be placed as quickly as possible to avoid exposure of the footing bottoms to wetting and drying. Surface run-off water should be drained away from the excavations and not be allowed to pond. If possible, the foundation concrete should be placed during the same day the excavation is made. If it is required that the excavation be left open for more than one day, they should be protected to reduce evaporation or entry of moisture.

6.2 SLABS ON GRADE

A slab-on-grade interior floor system (supported by ground improvement elements) may be utilized for the proposed structures provided the building area is prepared in accordance with the site preparation recommendations provided in Section 4 Geotechnical Evaluation of this report.

It is recommended that the floor slab be grade supported on 4 to 6 inches layer of crushed limestone or sand/gravel mix of MODOT Type 5 or similar. Where additional drainage capabilities are desired, a more open-graded material may be used. Crushed limestone or MODOT Type 5 containing 6% fines or less would be suitable for this use. If the floor slab is to be supported on MODOT Type 5 crushed limestone or other open-graded material, PSI recommends utilizing a geo-textile fabric between the subgrade soils and this base material to prevent the migration of the subgrade soil into the voids of the open graded "clean" crushed limestone.

Where concrete slabs will be covered with tile or other moisture sensitive covering, we recommend the use of a vapor retarder beneath the slabs on grade to reduce vapor transmission through the slab.



The precautions listed below are considered good construction practice. These recommendations are not required but can be followed to prevent moisture content variation and help reduce potential damage caused by movement of the supporting subgrade.

- Cracking of slabs-on-grade can occur as a result of heaving or compression of the supporting soil, but also as a result of concrete curing stresses. The occurrence of concrete shrinkage cracks, and problems associated with concrete curing may be reduced and/or controlled by limiting the slump of the concrete, proper concrete placement, finishing, and curing, and by the placement of crack control joints at frequent intervals, particularly, where re-entrant slab corners occur. The American Concrete Institute (ACI) recommends a maximum panel size (in feet) equal to approximately three times the thickness of the slab (in inches) in both directions. For example, joints are recommended at a maximum spacing of 12 feet based on using a four-inch thick slab. We also recommend that control joints be scored three feet in from and parallel to all foundation walls. Using fiber reinforcement in the concrete can also control shrinkage cracking.
- Slabs should be separated from exterior walls, column posts, interior bearing members and utility lines to allow independent vertical movement of the slab. If project structural and architectural details require the slab on grade to be structurally tied to the exterior wall/foundation system, then control joints should be placed in the slab within approximately 3 feet of the wall. The owner must understand and accept the risk of cracking at or near the control joints if the slab on grade is tied to the foundation system.
- Some increase in moisture content is inevitable as a result of development and associated landscaping. However, extreme moisture content increases can be largely controlled by proper and responsible site drainage, building maintenance and irrigation practices.
- Utility backfill in areas supporting slabs should be moisture conditioned and compacted. Backfill in all interior and exterior water and sewer line trenches should be uniformly compacted.
- Exterior slabs should be isolated from the building. These slabs should be reinforced to function as independent units. Movement of these slabs should not be transmitted to the building foundation or superstructure.

6.3 SEISMIC PARAMETERS

The project site is located within a municipality that employs the International Building Code (IBC), 2021 edition. As part of this code, the design of structures must consider dynamic forces resulting from seismic events. These forces are dependent upon the magnitude of the earthquake event as well as the properties of the soil that underlie the site. As part of the procedure to evaluate seismic forces, the code requires the evaluation of the Seismic Site Class, which categorizes the site based upon the characteristics of the subsurface profile within the upper 100 feet of the ground surface. To define the Site Class for this project, we have interpreted the expected results of soil test borings drilled with the project site and estimated appropriate soil properties below grade to a depth of 100 feet, as permitted by Section 20 of the code. The estimated soil properties were based upon data available in published geologic reports and our experience with subsurface conditions in the general site area.

Based on the soil profile, SPT blow counts and our understanding of the geology, PSI recommends that a Site Class “C” be used for design.



Site Class "C" Recommendations

The USGS-NEHRP probabilistic ground motion values, interpolated for Site **Class "C"** soils and in accordance with ASCE 7-16, based on the nearest four grid points to latitude 38.7423° and longitude -90.5628°, are as follows:

Period (seconds)	2% Probability of Event in 50 years (g)	Site Coefficients	Maximum Spectral Acceleration Parameters	Design Spectral Acceleration Parameters	
0.2 (S_s)	0.351	$F_a = 1.3$	$S_{ms} = 0.456$	$S_{Ds} = 0.304$	$T_0 = 0.093$
1.0 (S_1)	0.141	$F_v = 1.5$	$S_{m1} = 0.212$	$S_{D1} = 0.141$	$T_s = 0.464$

$$S_{ms} = F_a S_s \quad S_{Ds} = \frac{2}{3} S_{ms} \quad T_0 = 0.2 S_{D1} / S_{Ds}$$

$$S_{m1} = F_v S_1 \quad S_{D1} = \frac{2}{3} S_{m1} \quad T_s = S_{D1} / S_{Ds}$$

The Site Coefficients, F_a and F_v presented in the above table were interpolated from Chapter 20.3-1 as a function of the site classification and mapped spectral response acceleration at the short (S_s) and 1 second (S_1) periods.

Based on the Spectral Acceleration values for this site, structures with a Risk Category of I, II, and III (Table 1604.5) could be designed as a **Seismic Design Category C** as defined in Tables 1613.2.5(1) and 1613.2.5(2). Structures with a Risk Category IV could be designed as a **Seismic Design Category D**. The Risk Category is based on the nature of the occupancy of the structure and is typically determined by the design team (Architect/Structural Engineer) or building official. The determination of the Risk Category is beyond PSI's scope of service.

According to IBC 2021, Section 1803.5.11 requires that sites with a **Seismic Design Categories C through F** be evaluated for slope instabilities, liquefaction, surface rupture due to faulting or lateral spreading and estimates on the differential settlement, lateral movement or reduction in foundation soil bearing capacity due to liquefaction. A detailed study of these effects was beyond PSI's scope of services. However, the following table presents a qualitative assessment of these issues considering the site class, the subsurface soil properties, the groundwater elevation, and probabilistic ground motions:

HAZARD	RELATIVE RISK	COMMENTS
Slope Stability	Low-Moderate	The site will be graded to achieve the proposed finished floor elevation. This grading will include fills of approximately 8½ feet in portions of the building pad area, fills of approximately 3 to 4 feet in pavement areas south of the building, and cuts of approximately 4 to 5 feet in pavement areas north of the building. No slope stability analyses have been performed. No significant slopes are expected near structures. Stability of planned retaining wall should be evaluated during retaining wall design.
Liquefaction	Low	The soil within the upper 30 feet of the subsurface profile is cohesive soil, which is less susceptible to liquefaction during a significant earthquake event if the layer is below the ground water table. Ground improvement will improve liquefaction resistance.
Settlements	Low	Ground improvement will reduce the possibility of seismic-induced settlements.
Surface Rupture	Low	The site is not underlain by a mapped Holocene-aged fault



6.4 LATERAL EARTH PRESSURE COEFFICIENTS FOR RETAINING WALLS

PSI understands that the proposed site grading may include approximately 3 to 7 feet of fill and approximately 4 to 5 feet of cut to achieve the proposed site grades and finished floor elevation. PSI also understands that a retaining wall is planned along the northwest side of the proposed building. At the time of this report, detailed retaining wall information was not provided, including wall height, wall type, foundation type, final grades in front of and behind the wall, backfill configuration, drainage details, surcharge loads, and wall connection details.

Retaining walls should be designed to resist lateral earth pressures. Lateral earth pressure is developed from the soils present within a wedge formed by the vertical retaining wall and an imaginary line extending upward and away from the bottom of the wall at an approximate 45-degree angle. The lateral earth pressures are determined by multiplying the vertical applied pressure by the appropriate lateral earth pressure coefficient, K .

If the retaining walls are rigidly attached to the structure and are not free to rotate or deflect at the top, PSI recommends designing the walls for the “at-rest” lateral earth pressure condition using K_0 . Retaining walls that are permitted to rotate and deflect at the top may be designed for the active lateral earth pressure condition using K_a . Passive pressure may be determined using K_p with a factor of safety of 2.0. Earth pressure values for the above water table condition should correspond to the total unit weight of soil and earth pressure values for the below water table condition should correspond to the buoyant or submerged unit weight of soil.

The recommended lateral earth pressure values are based on a level backfill surface and fully drained conditions so that hydrostatic pressure is not allowed to develop behind the wall. External or surcharge loads from adjacent footings, slabs, pavement areas, construction equipment, traffic, or sloping ground were not considered and should be evaluated by the retaining wall designer, where applicable.

Drainage systems should be provided to collect/remove water and to prevent hydrostatic pressure on the walls. If provisions to prevent accumulation of water behind the walls are not provided, the walls should be designed to resist the hydrostatic head in addition to the buoyant lateral earth pressures. The hydrostatic pressures should be accounted for the full height of the wall.

Any additional lateral loads due to surcharge and live loads should also be included in the design. A minimum uniform surcharge pressure of 240 psf should be included in the design for the pavement and traffic loads. The lateral pressure on the wall due a uniform surcharge load can be taken as earth pressure coefficient values shown in the following table multiplied by the surcharge pressure. PSI should be contacted to assess the earth pressures, if any structures are located within close proximity of the retaining wall.

PSI understands that the planned retaining wall will be designed and wall stability will be evaluated by others. In addition, slope stability analyses were not performed as part of this study. Once wall layout plans are developed, PSI should review the final grading and retaining wall plans to determine whether additional retaining wall stability investigation and global stability evaluation are required.

The table below shows the recommended lateral earth pressure coefficients for typical backfill materials to be used in the design of retaining walls. These values should not be used for walls that will retain in-situ materials or walls greater than 10 feet in height.



Parameters specific to soil type	Clayey Sand or Silty Sand	Crushed Stone
Friction Factor for Base	0.38	0.60
Coefficient of Active Pressure (K_a)**	0.33	0.20
Coefficient of Passive Pressure (K_p)**	3.0	5.0
Coefficient of At-Rest Pressure (K_o)**	0.50	0.33

** These values may be used for design only if the backfill extends a horizontal distance approximately equal to or greater than the total height of the wall at the surface, and at least one-foot beyond the heel of the wall footing. Earth pressure coefficients valid for level backfill conditions with no surcharge

Horizontal shear forces can be resisted partially or completely by frictional forces developed between the base of spread footings and the underlying soil. The total frictional resistance between the footing and the soil is the sum of vertical forces (dead load) times the coefficient of friction between the soil and the base of the footing. If additional lateral resistance is required, passive soil resistance from embedded retaining walls and/or foundations bearing on undisturbed native soil may be evaluated on the basis of an equivalent fluid having a unit weight of 120 pcf. We recommend a factor of safety of at least 2 be applied to the calculated passive resistance.

6.5 PAVEMENT SECTION RECOMMENDATIONS

PSI's scope of services did not include extensive sampling and CBR testing of existing subgrade or potential sources of imported fill for the specific purpose of detailed pavement section analysis. Instead, PSI has based this report on pavement-related design parameters that are considered to be typical for the area soil types.

In large areas of pavement, or where pavements are subject to significant traffic, a more detailed analysis of the subgrade and traffic conditions should be made. The results of such a study will provide information necessary to design an economical and serviceable pavement.

The recommended thicknesses presented below are considered typical and minimum for the parameters used in this report. PSI understands that given budgetary considerations, it may be desirable to place thinner pavement sections than those presented. However, the client, the owner, and the project principals should be aware that thinner pavement sections might result in increased maintenance costs and lower than anticipated pavement life. The pavement subgrade should be prepared as discussed in the "Site Grading" section of this report.



PSI has estimated the subgrade soils will be prepared to achieve a CBR of at least 3. Based on this information for the subject pavement, the following minimum pavement sections were determined, as presented in the following table:

Recommended Minimum Thicknesses (Inches)*		
Pavement Materials **	Car Parking	Driveways
Asphaltic Surface Course	1½	1½
Asphaltic Binder Course	3½	4½
Base Rock	6	6
Or		
Portland Cement Concrete	5	6
Base Rock	4	4

* Pavement sections were evaluated using Pavement Assessment Software (PAS) which is based on the 1993 AASHTO Design guides; a reliability of 80%; and a 20-year 18-kip single axle load (ESAL) of **120,000** for heavy-duty areas and **30,000** for standard-duty areas. Flexible Pavements were evaluated based on an initial serviceability of 4.2 and a terminal service of 2.0. Rigid Pavements were evaluated based on an initial serviceability of 4.5 and a terminal service of 2.0; an unreinforced concrete mix with a 28-day modulus of rupture of 550 psi (approx. 4,000 psi compressive strength)

** Pavement materials should conform to local and state guidelines, if applicable.

Rigid concrete pavement is recommended where trash dumpsters or semi-trailers are to be parked on the pavement or where a considerable load is transferred from relatively small steel wheels. This should provide better distribution of surface loads to the subgrade without causing deformation of the surface. Trash dumpster pads should be at least 8 inches thick and properly reinforced.

Pavement may be placed after the subgrade has been properly compacted, fine graded and proof rolled. The work should be done in accordance with State Department of Transportation guidelines.

Asphalt Pavement Section

The granular base course should be built at least 2 feet wider than the pavement on each side to support the tracks of the slipform paver. This extra width is structurally beneficial for wheel loads applied at pavement edges.

The asphaltic surface mixture should conform to MODOT Section 450 specifications and utilize APWA Type 5 or Type 6 Superpave designs. PSI recommends the surface course should be compacted to 96% ± 2% of the maximum density as determined by the applicable Superpave gyratory compaction method. For the surface mix, BP-1 is typically used, while BP-2 may be selected for base mixes based on anticipated traffic loads and site conditions. To reduce the potential for thermal cracking in this region, the use of an asphalt binder grade of PG 64-28 is recommended for surface mixes. For base mixes placed 4 inches or more below the surface, PG 64-22 is sufficient.

Concrete Pavement Section

Because the pavement at this site will be subjected to freeze-thaw cycles, PSI recommends that an air entrainment admixture be added to the concrete mix to achieve an air content in the range of 5% to 7% to provide freeze-thaw durability in the concrete. Concrete with a 28-day specified compressive strength of 4,000



psi should be adequate in this area. A mixture with a maximum slump of 4 inches is acceptable. If a water reducing admixture is specified, the slump can be higher. It is recommended that admixtures are submitted in advance of use in the concrete.

Pavement for the dumpster area should be constructed of Portland cement concrete with a load transfer device installed where construction joints are required. A thickened edge is recommended on the outside of slabs subjected to wheel loads. This thickened edge usually takes the form of an integral curb. Fill material should be compacted behind the curb or thickened edge of the outside slabs. The following are recommended to enhance the quality of the pavement.

- Moisten subgrade just prior to placement of concrete.
- Cure fresh concrete with a liquid membrane-forming curing compound.
- Keep automobile traffic off the slab for 3 days and truck traffic off the slab for 7 days, unless tests are made to determine that the concrete has gained adequate strength (i.e., usually 4,000 psi)

Base Rock Section

PSI recommends that a MODOT Type 5 aggregate base rock (MODOT Specifications Handbook, Sec. 1007.3.2) be used under both asphalt and concrete pavements.

Sieve Size	Percent Passing by Weight (Mass)
1-inch (25.0 mm)	100
1/2-inch (12.5 mm)	60-90
No. 4 (4.75 mm)	35-60
No. 30 (600 µm)	10-35
No. 200 (75 µm)	0-15

Pavement Drainage & Maintenance

PSI recommends pavements be sloped to provide rapid surface drainage. Water allowed to pond on or adjacent to the pavement could saturate the subgrade and cause premature deterioration of pavements, and removal and replacement may be required. Consideration should be given to the use of an interceptor drain to collect and remove water collecting in the granular base. The interceptor drains could be incorporated with the storm drains of other utilities located in the pavement areas.

Periodic maintenance of the pavement should be anticipated. This should include sealing of cracks and joints and by maintaining proper surface drainage to avoid ponding of water on or near the pavement area.



7. CONSTRUCTION CONSIDERATIONS

PSI should be retained to provide observation and testing of construction activities involved in the foundation, earthwork, and related activities of this project. PSI cannot accept responsibility for conditions that deviate from those described in this report, nor for the performance of the foundation system if not engaged to also provide construction observation and testing for this project.

7.1 MOISTURE SENSITIVE SOILS/WEATHER RELATED CONCERNS

The upper fine-grained soils encountered at this site are expected to be sensitive to disturbances caused by construction traffic and to changes in moisture content. During wet weather periods, increases in the moisture content of the soil can cause significant reduction in soil strength and support capabilities. In addition, soils that become wet may be slow to dry and thus significantly retard the progress of grading and compaction activities. It will, therefore, be advantageous to perform earthwork and foundation construction activities during dry weather.

7.2 DRAINAGE AND GROUNDWATER CONSIDERATIONS

PSI recommends that the Contractor determine the actual groundwater levels at the site at the time of the construction activities to assess the impact groundwater may have on construction. Water should not be allowed to collect in the foundation excavation, on floor slab areas, or on prepared subgrades of the construction area either during or after construction. Undercut or excavated areas should be sloped toward one corner to facilitate removal of collected rainwater, groundwater, or surface runoff. Positive site drainage should be provided to reduce infiltration of surface water around the perimeter of the building and beneath the floor slabs. The grades should be sloped away from the building and surface drainage should be collected and discharged such that water is not permitted to infiltrate the backfill and floor slab areas of the building.

It is possible that seasonal variations will cause fluctuations in groundwater levels. Additionally, perched water may be encountered in discontinuous zones within the overburden. Water should be removed from excavations by pumping. The Geotechnical engineer should be consulted if excessive and uncontrolled amounts of seepage occur.

7.3 RECOMMENDED CONSTRUCTION SERVICES

The information provided in this report may be based on interpretation of client supplied information, publicly available databases, exploration data, and PSI's experience and knowledge. The client must recognize that some geological variations are expected to occur between boring locations and physical characteristics are expected to vary with time; therefore, it is important to retain the geotechnical engineer throughout the construction period. Though the geotechnical engineer may be needed during other phases of the project, PSI recommends the geotechnical engineer, or their representative, be present during the following at a minimum to confirm the materials are consistent with our design recommendations:

- Stripping of the subgrade
- Removal of unsuitable soils
- Proof-rolling of the subgrade prior to fill placement, and slab construction
- Engineered fill placement to establish grade
- Foundation excavations prior to concrete placement
- Slab subgrade prior to concrete placement
- Backfilling of retaining walls



If conditions are observed that vary from those stated in this report, PSI can provide updated recommendations based on the site conditions at the time of construction.

7.4 EXCAVATIONS

In Federal Register, Volume 54, No. 209 (October 1989), the United States Department of Labor, Occupational Safety and Health Administration (OSHA) amended its "Construction Standards for Excavations, 29 CFR, part 1926, Subpart P". This document was issued to better enhance the safety of workers entering trenches or excavations. It is mandated by this federal regulation that excavations, whether they be utility trenches, basement excavation or footing excavations, be constructed in accordance with the new OSHA guidelines. It is PSI's understanding that these regulations are being strictly enforced and if they are not closely followed, the owner and the contractor could be liable for substantial penalties.

The soils encountered in the soil borings can generally be classified as "Type B" soils, but layers of "Type C" soils were encountered in some borings. Soil conditions may vary between boring locations.

The contractor is solely responsible for designing and constructing stable, temporary excavations and should shore, slope, or bench the sides of the excavations as required to maintain stability of both the excavation sides and bottom. The contractor's "responsible person", as defined in 29 CFR Part 1926, should evaluate the soil exposed in the excavations as part of the contractor's safety procedures. In no case should slope height, slope inclination, or excavation depth, including utility trench excavation depth, exceed those specified in local, state, and federal safety regulations.

PSI is providing this information solely as a service to our client. PSI does not assume responsibility for construction site safety or the contractor's or other party's compliance with local, state, and federal safety or other regulations.



8. GEOTECHNICAL RISK

The concept of risk is an important aspect of the geotechnical evaluation. The primary reason for this is that the analytical methods used to develop geotechnical recommendations do not comprise an exact science. The analytical tools which geotechnical engineers use are generally empirical and must be used in conjunction with engineering judgment and experience. Therefore, the solutions and recommendations presented in the geotechnical evaluation should not be considered risk-free and, more importantly, are not a guarantee that the interaction between the soils and the proposed structure will perform as planned. The engineering recommendations presented in the preceding section constitutes PSI's professional estimate of those measures that are necessary for the proposed structure to perform according to the proposed design based on the information generated and reference during this evaluation, and PSI's experience in working with these conditions.



9. REPORT LIMITATIONS

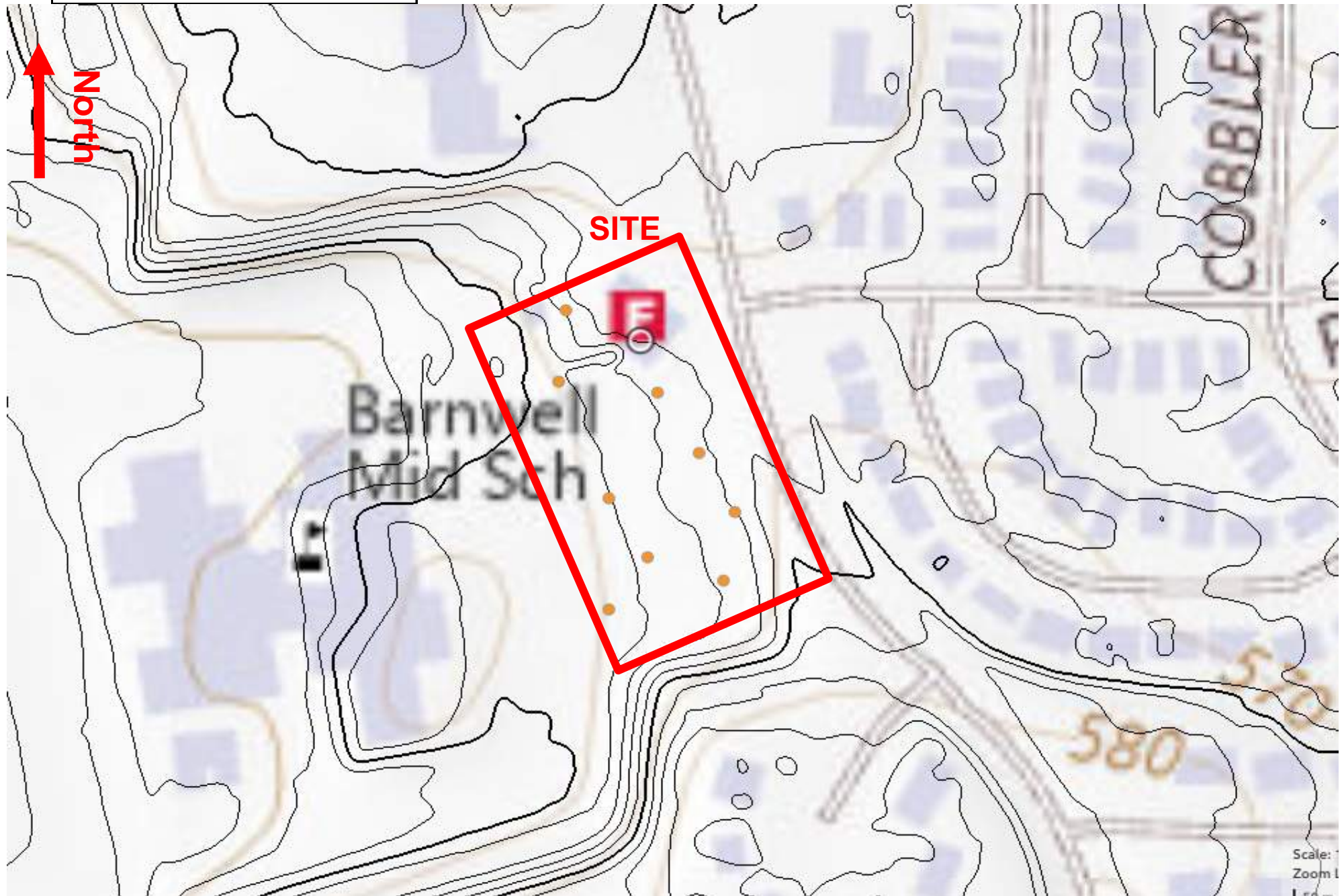
The recommendations submitted are based on the subsurface information obtained by PSI and design details furnished by **Central County Fire & Rescue (CCFR)** and the design team. If there are revisions to the plans for this project or if deviations from the subsurface conditions noted in this report are encountered during construction, PSI should be notified immediately to determine if changes in the foundation recommendations are required. If PSI is not retained to perform these functions, PSI will not be responsible for the impact of those conditions on the project.

The geotechnical engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been made in accordance with generally accepted professional geotechnical engineering practices in the local area. No other warranties are implied or expressed.

After the plans and specifications are more complete, the geotechnical engineer should be retained and provided the opportunity to review the final design plans and specifications to check that our engineering recommendations have been properly incorporated into the design documents. At that time, it may be necessary to submit supplementary recommendations. This report has been prepared for the exclusive use of **Central County Fire & Rescue (CCFR)** for the specific application to the proposed **CCFR#6 Fire Station and Pavement** in Saint Charles, Missouri.



APPENDIX A - TOPOGRAPHIC MAP



Topographic Map

Provided by the USGS

Proposed CCFR#6
1151 Jungs Station Rd
St. Charles, MO

PSI Project Number	0040547-1	Drawn By:	TT
		Date:	6/30/2026
Contour Elevation (ft)	10 ft	Map Name:	TOPO



APPENDIX B – AERIAL PHOTOGRAPH



Aerial Photograph

Provided by Google Earth™

Proposed CCFR#6
1151 Jungs Station Rd
St. Charles, MO

PSI Project Number 0040547-1 Drawn By: TT

Photograph Date 6/29/2023 Date: 6/30/2026



APPENDIX C – BORING LOCATION PLAN



Indicates Approximate Location of Boring

Boring Location Plan

**Proposed CCFR#6
St. Charles, MO**

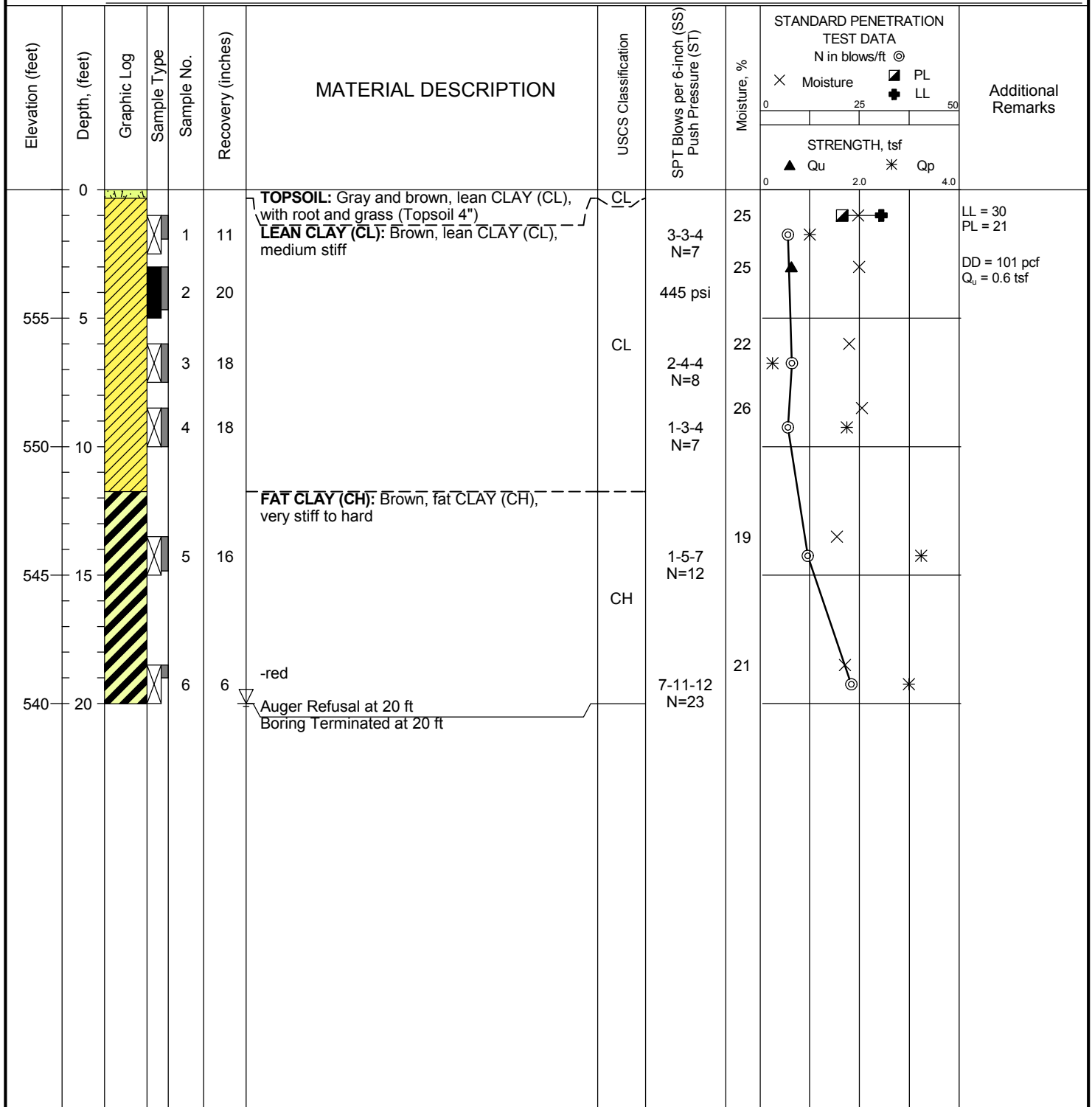
PSI Project Number 0040547-1

Drawn By: TT
Date: 06/30/2026



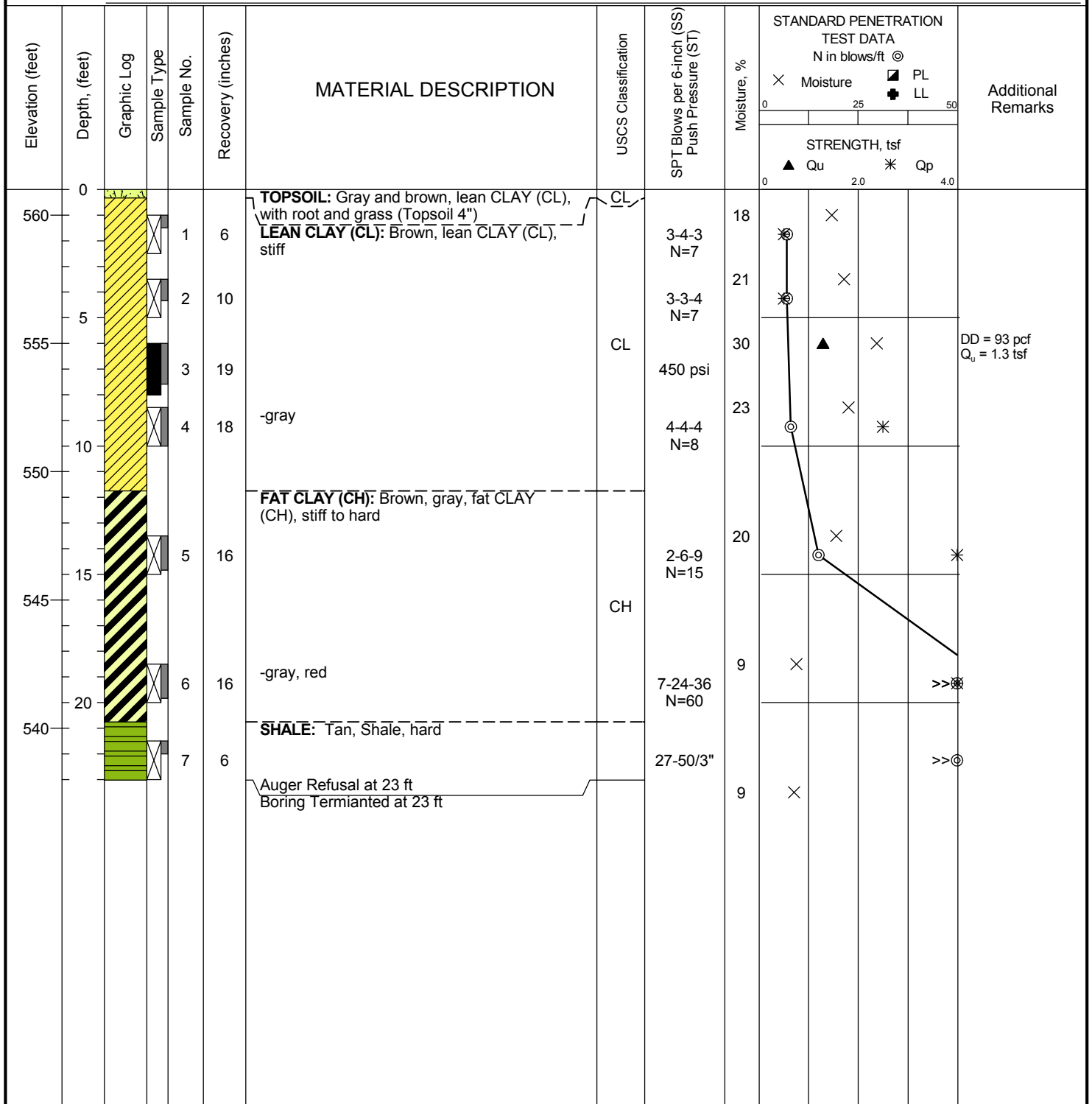
APPENDIX D – BORING LOGS WITH LABORATORY TESTS

DATE STARTED: 6/9/26 DATE COMPLETED: 6/9/26 COMPLETION DEPTH: 20.0 ft BENCHMARK: N/A ELEVATION: 560 ft LATITUDE: 38.7423° LONGITUDE: -90.5628° STATION: N/A OFFSET: N/A REMARKS:	DRILL COMPANY: HOLLAND ENGINEERS DRILLER: Chad LOGGED BY: Priya DRILL RIG: CME 45 C DRILLING METHOD: Hollow Stem Auger SAMPLING METHOD: 2-in SS/3-in ST HAMMER TYPE: Automatic EFFICIENCY: N/A REVIEWED BY: TT	BORING B-01 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="3" style="width: 5%; text-align: center; font-weight: bold;">Water</td> <td style="width: 10%; text-align: center;">▽</td> <td style="width: 65%;">While Drilling</td> <td style="width: 20%; text-align: right;">20 feet</td> </tr> <tr> <td style="text-align: center;">▼</td> <td>Upon Completion</td> <td style="text-align: right;">Not Encountered</td> </tr> <tr> <td style="text-align: center;">▽</td> <td>Delay</td> <td style="text-align: right;">N/A</td> </tr> </table> BORING LOCATION: Proposed New Building	Water	▽	While Drilling	20 feet	▼	Upon Completion	Not Encountered	▽	Delay	N/A
Water	▽	While Drilling		20 feet								
	▼	Upon Completion		Not Encountered								
	▽	Delay	N/A									



	Professional Service Industries, Inc. 11826 Borman Drive Saint Louis, MO 63146 Telephone: (314) 432-8073	PROJECT NO.: 0040547-1 PROJECT: CCFR#6 Fire Station LOCATION: 1151 Jungs Station St, Charles, MO 63303
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DATE STARTED: 6/9/26		DRILL COMPANY: HOLLAND ENGINEERS		BORING B-02	
DATE COMPLETED: 6/9/26		DRILLER: Chad LOGGED BY: Priya			
COMPLETION DEPTH: 23.0 ft		DRILL RIG: CME 45 C		Water ☐ While Drilling Not Encountered ☒ Upon Completion Not Encountered ☐ Delay N/A	
BENCHMARK: N/A		DRILLING METHOD: Hollow Stem Auger			
ELEVATION: 561 ft		SAMPLING METHOD: 2-in SS/3-in ST		BORING LOCATION: Proposed New Building	
LATITUDE: 38.742°		HAMMER TYPE: Automatic			
LONGITUDE: -90.5626°		EFFICIENCY: N/A			
STATION: N/A		OFFSET: N/A			
REMARKS:		REVIEWED BY: TT			



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 11826 Borman Drive
 Saint Louis, MO 63146
 Telephone: (314) 432-8073

PROJECT NO.: 0040547-1
PROJECT: CCFR#6 Fire Station
LOCATION: 1151 Jungs Station
 St, Charles, MO 63303

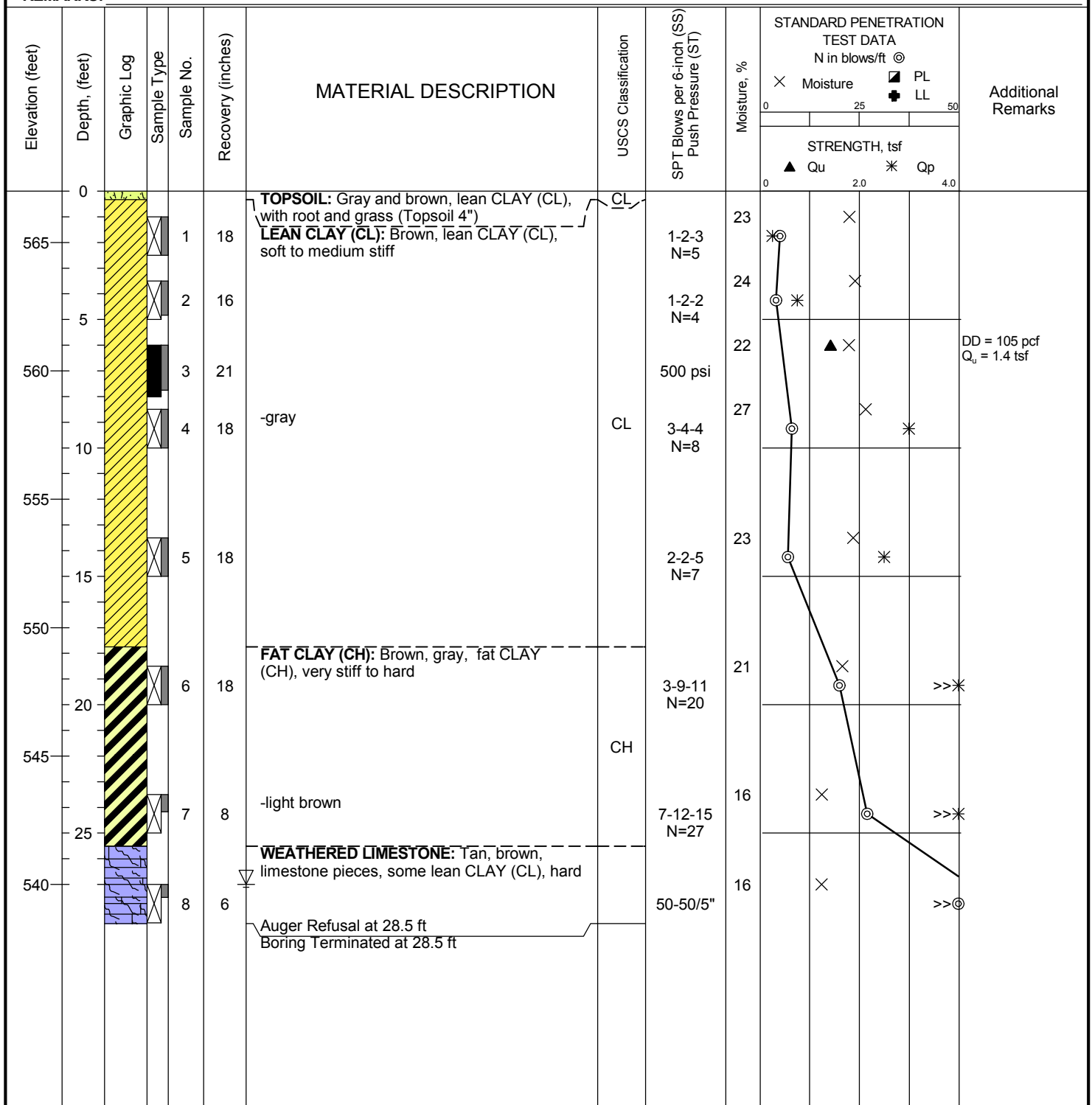
DATE STARTED: 6/9/26
DATE COMPLETED: 6/9/26
COMPLETION DEPTH: 27.0 ft
BENCHMARK: N/A
ELEVATION: 567 ft
LATITUDE: 38.7423°
LONGITUDE: -90.5623°
STATION: N/A
REMARKS:

DRILL COMPANY: HOLLAND ENGINEERS
DRILLER: Chad
LOGGED BY: Priya
DRILL RIG: CME 45 C
DRILLING METHOD: Hollow Stem Auger
SAMPLING METHOD: 2-in SS/3-in ST
HAMMER TYPE: Automatic
EFFICIENCY: N/A
REVIEWED BY: TT

BORING B-03

Water
▽ While Drilling 27 feet
▼ Upon Completion Not Encountered
▽ Delay N/A

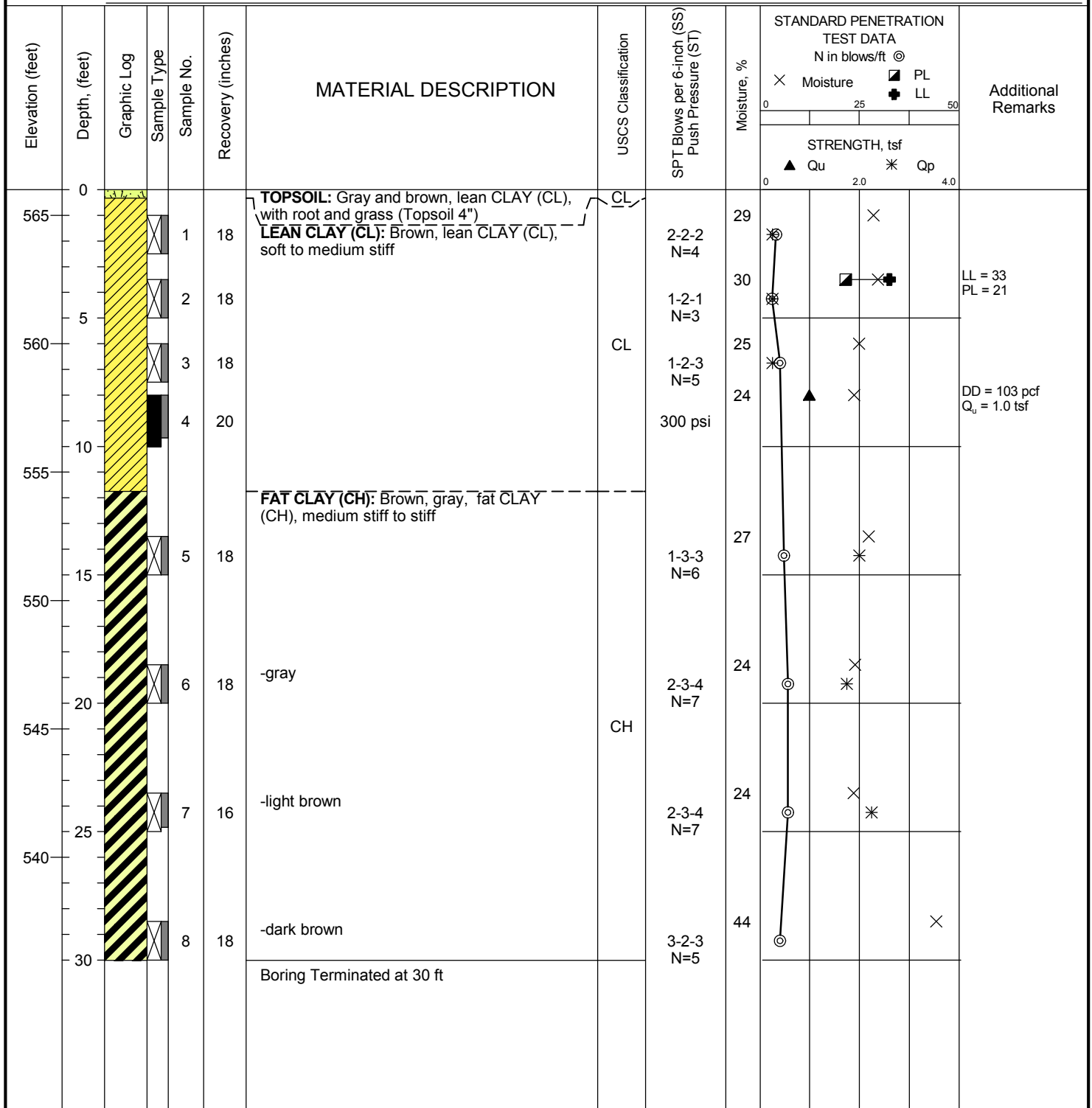
BORING LOCATION:
Proposed New Building



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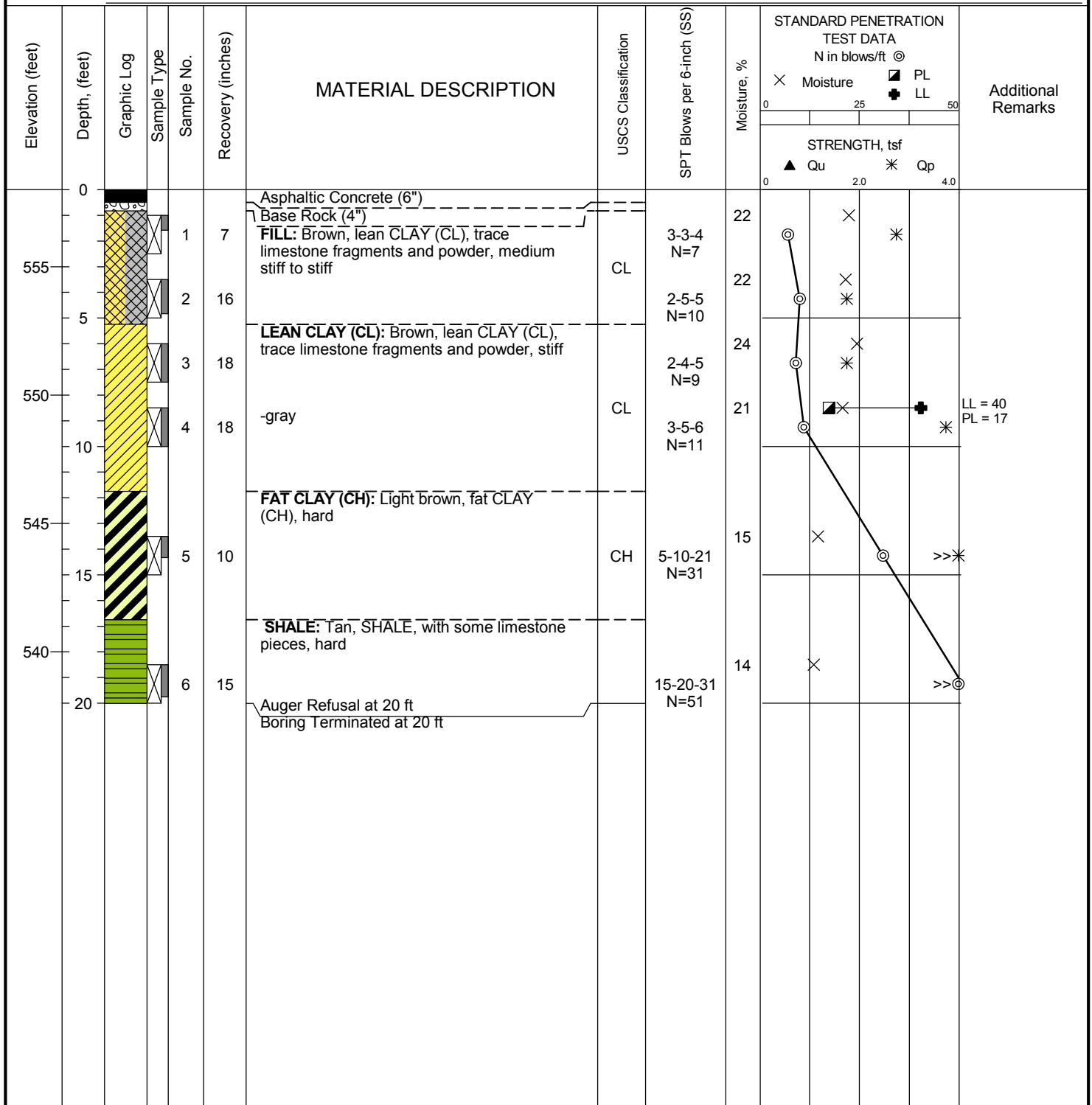
PROJECT NO.: 0040547-1
PROJECT: CCFR#6 Fire Station
LOCATION: 1151 Jungs Station
St, Charles, MO 63303

DATE STARTED: 6/10/26		DRILL COMPANY: HOLLAND ENGINEERS		BORING B-04											
DATE COMPLETED: 6/10/26		DRILLER: Chad LOGGED BY: Priya													
COMPLETION DEPTH: 30.0 ft		DRILL RIG: CME 45 C		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="3" style="width: 30px; text-align: center; vertical-align: middle;">Water</td> <td style="text-align: center;">▽</td> <td>While Drilling</td> <td>Not Encountered</td> </tr> <tr> <td style="text-align: center;">▼</td> <td>Upon Completion</td> <td>Not Encountered</td> </tr> <tr> <td style="text-align: center;">▽</td> <td>Delay</td> <td>N/A</td> </tr> </table>		Water	▽	While Drilling	Not Encountered	▼	Upon Completion	Not Encountered	▽	Delay	N/A
Water	▽	While Drilling	Not Encountered												
	▼	Upon Completion	Not Encountered												
	▽	Delay	N/A												
BENCHMARK: N/A		DRILLING METHOD: Hollow Stem Auger		BORING LOCATION: Proposed New Building											
ELEVATION: 566 ft		SAMPLING METHOD: 2-in SS/ ST													
LATITUDE: 38.7425°		HAMMER TYPE: Automatic													
LONGITUDE: -90.5624°		EFFICIENCY: N/A													
STATION: N/A		OFFSET: N/A													
REMARKS:		REVIEWED BY: TT													



	Professional Service Industries, Inc.	PROJECT NO.: 0040547-1
	11826 Borman Drive	PROJECT: CCFR#6 Fire Station
	Saint Louis, MO 63146	LOCATION: 1151 Jungs Station
	Telephone: (314) 432-8073	St, Charles, MO 63303

DATE STARTED: 6/9/26		DRILL COMPANY: HOLLAND ENGINEERS		BORING B-05	
DATE COMPLETED: 6/9/26		DRILLER: Chad LOGGED BY: Priya			
COMPLETION DEPTH: 20.0 ft		DRILL RIG: CME 45 C		Water ☐ While Drilling Not Encountered ☒ Upon Completion Not Encountered ☐ Delay N/A	
BENCHMARK: N/A		DRILLING METHOD: Hollow Stem Auger			
ELEVATION: 558 ft		SAMPLING METHOD: 2-in SS		BORING LOCATION: Planned Retaining wall	
LATITUDE: 38.742°		HAMMER TYPE: Automatic			
LONGITUDE: -90.5628°		EFFICIENCY: N/A			
STATION: N/A		OFFSET: N/A			
REMARKS:					



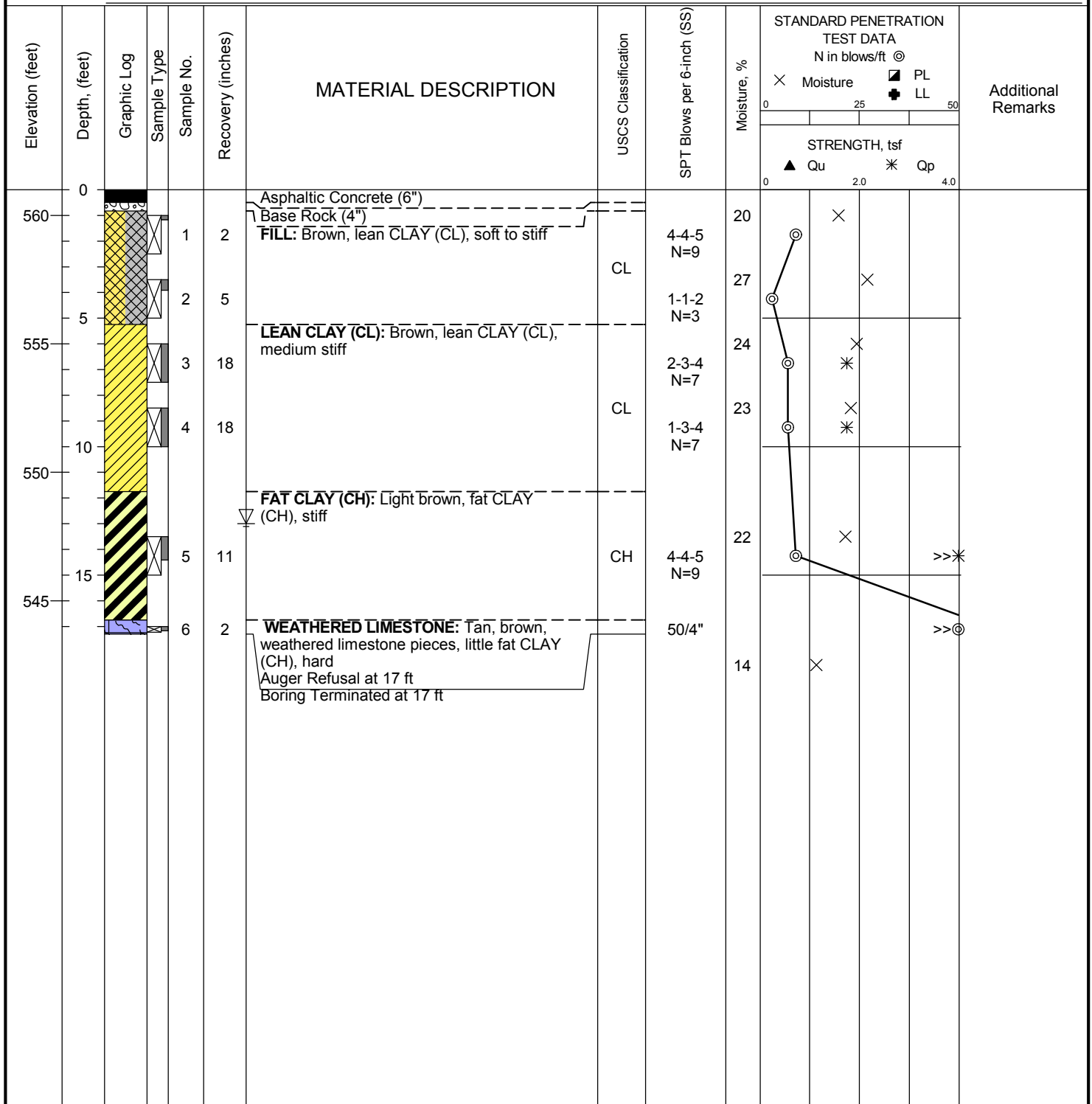
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 11826 Borman Drive
 Saint Louis, MO 63146
 Telephone: (314) 432-8073

PROJECT NO.: 0040547-1
PROJECT: CCFR#6 Fire Station
LOCATION: 1151 Jungs Station
 St, Charles, MO 63303

DATE STARTED: 6/10/26		DRILL COMPANY: HOLLAND ENGINEERS		BORING B-06
DATE COMPLETED: 6/10/26		DRILLER: Chad LOGGED BY: Priya		
COMPLETION DEPTH: 17.0 ft		DRILL RIG: CME 45 C		
BENCHMARK: N/A		DRILLING METHOD: Hollow Stem Auger		
ELEVATION: 561 ft		SAMPLING METHOD: 2-in SS		
LATITUDE: 38.7427°		HAMMER TYPE: Automatic		
LONGITUDE: -90.563°		EFFICIENCY: N/A		
STATION: N/A OFFSET: N/A		REVIEWED BY: TT		
REMARKS:				

Water	▽ While Drilling	13 feet
	▼ Upon Completion	Not Encountered
	▽ Delay	N/A

BORING LOCATION:
Planned Retaining wall



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PROJECT NO.: 0040547-1
PROJECT: CCFR#6 Fire Station
LOCATION: 1151 Jungs Station
St, Charles, MO 63303

DATE STARTED: 6/10/26 DATE COMPLETED: 6/10/26 COMPLETION DEPTH: 10.0 ft BENCHMARK: N/A ELEVATION: 564 ft LATITUDE: 38.7421° LONGITUDE: -90.5624° STATION: N/A OFFSET: N/A REMARKS:	DRILL COMPANY: HOLLAND ENGINEERS DRILLER: Chad LOGGED BY: Priya DRILL RIG: CME 45 C DRILLING METHOD: Hollow Stem Auger SAMPLING METHOD: 2-in SS HAMMER TYPE: Automatic EFFICIENCY: N/A REVIEWED BY: TT	BORING B-07 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="3" style="width: 5%; text-align: center; font-weight: bold;">Water</td> <td style="width: 5%; text-align: center;">▽</td> <td style="width: 40%;">While Drilling</td> <td style="width: 50%;">Not Encountered</td> </tr> <tr> <td style="text-align: center;">▼</td> <td>Upon Completion</td> <td>Not Encountered</td> </tr> <tr> <td style="text-align: center;">▽</td> <td>Delay</td> <td>N/A</td> </tr> </table> BORING LOCATION: Proposed New Pavement	Water	▽	While Drilling	Not Encountered	▼	Upon Completion	Not Encountered	▽	Delay	N/A
Water	▽	While Drilling		Not Encountered								
	▼	Upon Completion		Not Encountered								
	▽	Delay	N/A									

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft @	Additional Remarks
										X Moisture PL 0 25 50 + LL STRENGTH, tsf ▲ Qu * Qp 0 2.0 4.0	
	0					TOPSOIL: Gray and brown, lean CLAY (CL), with root and grass (Topsoil 4") LEAN CLAY (CL): Brown, lean CLAY (CL), stiff to very stiff -red	CL	2-4-5 N=9	19		
560				1	11						
	5			2	9		CL	3-6-6 N=12	23		LL = 39 PL = 19
				3	9			5-11-14 N=25	15		
555				4	8			4-8-9 N=17	16		>>*
	10					Boring Terminated at 10 ft					

	Professional Service Industries, Inc. 11826 Borman Drive Saint Louis, MO 63146 Telephone: (314) 432-8073	PROJECT NO.: 0040547-1 PROJECT: CCFR#6 Fire Station LOCATION: 1151 Jungs Station St, Charles, MO 63303
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DATE STARTED: 6/10/26		DRILL COMPANY: HOLLAND ENGINEERS		BORING B-08											
DATE COMPLETED: 6/10/26		DRILLER: Chad LOGGED BY: Priya													
COMPLETION DEPTH: 10.0 ft		DRILL RIG: CME 45 C		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="3" style="width: 30px; text-align: center; vertical-align: middle;">Water</td> <td style="width: 30px; text-align: center;">▽</td> <td style="width: 30px;">While Drilling</td> <td style="width: 30px;">Not Encountered</td> </tr> <tr> <td style="text-align: center;">▼</td> <td>Upon Completion</td> <td>Not Encountered</td> </tr> <tr> <td style="text-align: center;">▽</td> <td>Delay</td> <td>N/A</td> </tr> </table>		Water	▽	While Drilling	Not Encountered	▼	Upon Completion	Not Encountered	▽	Delay	N/A
Water	▽	While Drilling	Not Encountered												
	▼	Upon Completion	Not Encountered												
	▽	Delay	N/A												
BENCHMARK: N/A		DRILLING METHOD: Hollow Stem Auger		BORING LOCATION: Proposed New Pavement											
ELEVATION: 565 ft		SAMPLING METHOD: 2-in SS													
LATITUDE: 38.7429°		HAMMER TYPE: Automatic													
LONGITUDE: -90.5629°		EFFICIENCY: N/A													
STATION: N/A		OFFSET: 10FT NW		REVIEWED BY: TT											
REMARKS:															

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft @	Additional Remarks
										X Moisture	
	0					TOPSOIL: Gray and brown, lean CLAY (CL), with root and grass (Topsoil 4")	CL				
				1	4	FILL: Dark brown, lean CLAY (CL), trace roots and grass, stiff	CL	3-4-5 N=9			
				2	9	FAT CLAY (CH): Brown, fat CLAY (CH), medium stiff	CH	2-3-3 N=6			
560	5			3	8	LEAN CLAY (CL): Brown, lean CLAY (CL), medium stiff	CL	2-2-3 N=5			
				4	10	FAT CLAY (CH): Brown, fat CLAY (CH), trace limestone pieces, soft	CH	1-1-2 N=3			
555	10					Boring Terminated at 10 ft					

	Professional Service Industries, Inc. 11826 Borman Drive Saint Louis, MO 63146 Telephone: (314) 432-8073	PROJECT NO.: 0040547-1
		PROJECT: CCFR#6 Fire Station
		LOCATION: 1151 Jungs Station
		St, Charles, MO 63303

DATE STARTED: 6/10/26 DATE COMPLETED: 6/10/26 COMPLETION DEPTH: 10.0 ft BENCHMARK: N/A ELEVATION: 565 ft LATITUDE: 38.7427° LONGITUDE: -90.5626° STATION: N/A OFFSET: N/A REMARKS:	DRILL COMPANY: HOLLAND ENGINEERS DRILLER: Chad LOGGED BY: Priya DRILL RIG: CME 45 C DRILLING METHOD: Hollow Stem Auger SAMPLING METHOD: 2-in SS HAMMER TYPE: Automatic EFFICIENCY: N/A REVIEWED BY: TT	BORING B-09 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="3" style="width: 5%; text-align: center; font-weight: bold;">Water</td> <td style="width: 10%; text-align: center;">▽</td> <td style="width: 45%;">While Drilling</td> <td style="width: 40%;">Not Encountered</td> </tr> <tr> <td style="text-align: center;">▼</td> <td>Upon Completion</td> <td>Not Encountered</td> </tr> <tr> <td style="text-align: center;">▽</td> <td>Delay</td> <td>N/A</td> </tr> </table> BORING LOCATION: Proposed New Pavement	Water	▽	While Drilling	Not Encountered	▼	Upon Completion	Not Encountered	▽	Delay	N/A
Water	▽	While Drilling		Not Encountered								
	▼	Upon Completion		Not Encountered								
	▽	Delay	N/A									

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	Moisture, %	STANDARD PENETRATION TEST DATA N in blows/ft @	Additional Remarks
										X Moisture PL LL 0 25 50	
										STRENGTH, tsf ▲ Qu * Qp 0 2.0 4.0	
	0					Asphaltic Concrete (6")					
						Base Rock (4")					
				1	8	FILL: Gray, brown, lean CLAY (CL), medium stiff	CL	3-3-4 N=7	22		LL = 40 PL = 21
				2	16	LEAN CLAY (CL): Brown, lean CLAY (CL), medium stiff		1-3-4 N=7	27		
560	5			3	18		CL	2-2-4 N=6	25		
				4	18			2-2-4 N=6	23		
555	10					Boring Terminated at 10 ft					

	Professional Service Industries, Inc. 11826 Borman Drive Saint Louis, MO 63146 Telephone: (314) 432-8073	PROJECT NO.: 0040547-1 PROJECT: CCFR#6 Fire Station LOCATION: 1151 Jungs Station St, Charles, MO 63303
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The stratification lines represent approximate boundaries. The transition may be gradual.



APPENDIX E – DRILLING, FIELD, AND LAB TESTING PROCEDURES



FIELD TESTS AND MEASUREMENTS

Penetration Tests and Split-Barrel Sampling of Soils

During the sampling procedures, Standard Penetration Tests (SPT) were performed at regular intervals (2½-foot intervals to 10 feet and 5-foot intervals thereafter) to obtain the standard penetration (N) values of the soil. The results of the standard penetration test indicate the relative density and comparative consistency of the soils, and thereby provide a basis for estimating the relative strength and compressibility of the soil profile components. The split-barrel sampler provides a soil sample for identification purposes and for laboratory tests appropriate for soil obtained from a sampler that may produce large shear strain while obtaining the sample.

Thin-Walled (Shelby) Tube Geotechnical Sampling of Soils

Thin-walled tube samples are utilized to obtain a relatively undisturbed specimen suitable for laboratory tests of structural properties or other tests that might be influenced by soil properties. A relatively undisturbed sample is obtained by pressing a thin-walled metal tube (typically an outside diameter 3 inches) into the in-situ soil, removing the soil-filled tube, and sealing the ends to reduce the soil disturbance or moisture loss. These samples may be utilized in the laboratory to obtain the following information or perform the following tests: Unconfined Compressive Strength (q_u), Laboratory Determination of Water Content, Wet and Dry Density, Void Ratio, Percent Saturation, Grain Size, and Atterberg Limits.

Water Level Measurements

Water level observations were attempted during and upon completion of the drilling operation using a 100-foot tape measure. The depths of observed water levels in the boreholes are noted on the boring logs presented in the Appendix of this report. In the borings where water is unable to be observed during the field activities, in relatively impervious soils, the accurate determination of the groundwater elevation may not be possible even after several days of observation. Seasonal variations, temperature and recent rainfall conditions may influence the levels of the groundwater table and volumes of water will depend on the permeability of the soils.

Ground Surface Elevations

The elevations at the ground surface of the borings were estimated based on publicly available topographic information provided by Google Earth Pro. These elevations should not be used for design purposes in lieu of a survey of the boring locations and respective surface elevations at this site. These elevations are indicated on the attached boring logs that are in the Appendix of this report.



LABORATORY TESTING PROGRAM

In addition to the field investigation, a supplemental laboratory-testing program was conducted to determine additional engineering characteristics of the foundation materials necessary in analyzing the behavior of the soils as it relates to the construction of the proposed development. Laboratory results may be found on the boring logs and individual test results are included in the Appendix. The laboratory testing program is as follows:

Laboratory Determination of Water (Moisture) Content of Soil by Mass

The water content is a significant index property used in establishing a correlation between soil behavior and its index properties. The water content is used in expressing the phase relationship of air, water, and solids in a given volume of material. In fine grained cohesive soils, the behavior of a given soil type often depends on its water content. The water content of a soil, along with its liquid and plastic limits as determined by Atterberg Limit testing, is used to express its relative consistency or liquidity index.

Atterberg Limits

The Atterberg Limits are defined by the liquid limit (LL) and plastic limit (PL) states of a given soil. These limits are used to determine the moisture content limits where the soil characteristics changes from behaving more like a fluid on the liquid limit end to where the soil behaves more like individual soil particles on the plastic limit end. The liquid limit is often used to indicate if a soil is a low or high plasticity soil. The plasticity index (PI) is the difference between the liquid limit and the plastic limit. The plasticity index is used in conjunction with the liquid limit to assess if the material will behave like a silt or clay. The material can also be classified as an organic material by comparing the liquid limit of the natural material to the liquid limit of the sample after being oven-dried.

Unconfined Compressive Strength of Cohesive Soil (q_u)

The primary purpose of the unconfined compressive strength test is to obtain the undrained compressive strength of soils that possess sufficient cohesion to permit testing in the unconfined state. Unconfined compressive strength (q_u) is the compressive stress at which an unconfined cylindrical specimen of soil will fail in a simple compression test. In this test method, unconfined compressive strength is taken as the maximum load obtained per unit area or the load per unit area at 15% axial strain, whichever is obtained first during the performance of a test. For the unconfined compressive strength test, the shear strength (s_u) is calculated to be half of the compressive stress at failure.



APPENDIX F – GENERAL NOTES/SOIL CLASSIFICATION CHART



GENERAL NOTES

SAMPLE IDENTIFICATION

The Unified Soil Classification System (USCS), AASHTO 1988 and ASTM designations D2487 and D-2488 are used to identify the encountered materials unless otherwise noted. Coarse-grained soils are defined as having more than 50% of their dry weight retained on a #200 sieve (0.075mm); they are described as: boulders, cobbles, gravel or sand. Fine-grained soils have less than 50% of their dry weight retained on a #200 sieve; they are defined as silts or clay depending on their Atterberg Limit attributes. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size.

DRILLING AND SAMPLING SYMBOLS

SFA: Solid Flight Auger - typically 4" diameter flights, except where noted.	⊠ SS: Split-Spoon - 1 3/8" I.D., 2" O.D., except where noted.
HSA: Hollow Stem Auger - typically 3 1/4" or 4 1/4" I.D. openings, except where noted.	■ ST: Shelby Tube - 3" O.D., except where noted.
M.R.: Mud Rotary - Uses a rotary head with Bentonite or Polymer Slurry	▮ RC: Rock Core
R.C.: Diamond Bit Core Sampler	⬇ TC: Texas Cone
H.A.: Hand Auger	⊗ BS: Bulk Sample
P.A.: Power Auger - Handheld motorized auger	⊞ PM: Pressuremeter
	CPT-U: Cone Penetrometer Testing with Pore-Pressure Readings

SOIL PROPERTY SYMBOLS

N: Standard "N" penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2-inch O.D. Split-Spoon.
N ₆₀ : A "N" penetration value corrected to an equivalent 60% hammer energy transfer efficiency (ETR)
Q _u : Unconfined compressive strength, TSF
Q _p : Pocket penetrometer value, unconfined compressive strength, TSF
w%: Moisture/water content, %
LL: Liquid Limit, %
PL: Plastic Limit, %
PI: Plasticity Index = (LL-PL), %
DD: Dry unit weight, pcf
▽, ▽, ▼ Apparent groundwater level at time noted

RELATIVE DENSITY OF COARSE-GRAINED SOILS

Relative Density	N - Blows/foot
Very Loose	0 - 4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	50 - 80
Extremely Dense	80+

ANGULARITY OF COARSE-GRAINED PARTICLES

Description	Criteria
Angular:	Particles have sharp edges and relatively plane sides with unpolished surfaces
Subangular:	Particles are similar to angular description, but have rounded edges
Subrounded:	Particles have nearly plane sides, but have well-rounded corners and edges
Rounded:	Particles have smoothly curved sides and no edges

GRAIN-SIZE TERMINOLOGY

Component	Size Range
Boulders:	Over 300 mm (>12 in.)
Cobbles:	75 mm to 300 mm (3 in. to 12 in.)
Coarse-Grained Gravel:	19 mm to 75 mm (3/4 in. to 3 in.)
Fine-Grained Gravel:	4.75 mm to 19 mm (No.4 to 3/4 in.)
Coarse-Grained Sand:	2 mm to 4.75 mm (No.10 to No.4)
Medium-Grained Sand:	0.42 mm to 2 mm (No.40 to No.10)
Fine-Grained Sand:	0.075 mm to 0.42 mm (No. 200 to No.40)
Silt:	0.005 mm to 0.075 mm
Clay:	<0.005 mm

PARTICLE SHAPE

Description	Criteria
Flat:	Particles with width/thickness ratio > 3
Elongated:	Particles with length/width ratio > 3
Flat & Elongated:	Particles meet criteria for both flat and elongated

RELATIVE PROPORTIONS OF FINES

Descriptive Term	% Dry Weight
Trace:	< 5%
With:	5% to 12%
Modifier:	>12%



GENERAL NOTES

(Continued)

CONSISTENCY OF FINE-GRAINED SOILS

Q_{Uj} - TSF	N - Blows/foot	Consistency
0 - 0.25	0 - 2	Very Soft
0.25 - 0.50	2 - 4	Soft
0.50 - 1.00	4 - 8	Firm (Medium Stiff)
1.00 - 2.00	8 - 15	Stiff
2.00 - 4.00	15 - 30	Very Stiff
4.00 - 8.00	30 - 50	Hard
8.00+	50+	Very Hard

MOISTURE CONDITION DESCRIPTION

Description	Criteria
Dry:	Absence of moisture, dusty, dry to the touch
Moist:	Damp but no visible water
Wet:	Visible free water, usually soil is below water table

RELATIVE PROPORTIONS OF SAND AND GRAVEL

Descriptive Term	% Dry Weight
Trace:	< 15%
With:	15% to 30%
Modifier:	>30%

STRUCTURE DESCRIPTION

Description	Criteria	Description	Criteria
Stratified:	Alternating layers of varying material or color with layers at least 1/4-inch (6 mm) thick	Blocky:	Cohesive soil that can be broken down into small angular lumps which resist further breakdown
Laminated:	Alternating layers of varying material or color with layers less than 1/4-inch (6 mm) thick	Lensed:	Inclusion of small pockets of different soils
Fissured:	Breaks along definite planes of fracture with little resistance to fracturing	Layer:	Inclusion greater than 3 inches thick (75 mm)
Slickensided:	Fracture planes appear polished or glossy, sometimes striated	Seam:	Inclusion 1/8-inch to 3 inches (3 to 75 mm) thick extending through the sample
		Parting:	Inclusion less than 1/8-inch (3 mm) thick

SCALE OF RELATIVE ROCK HARDNESS

Q_{Uj} - TSF	Consistency
2.5 - 10	Extremely Soft
10 - 50	Very Soft
50 - 250	Soft
250 - 525	Medium Hard
525 - 1,050	Moderately Hard
1,050 - 2,600	Hard
>2,600	Very Hard

ROCK BEDDING THICKNESSES

Description	Criteria
Very Thick Bedded	Greater than 3-foot (>1.0 m)
Thick Bedded	1-foot to 3-foot (0.3 m to 1.0 m)
Medium Bedded	4-inch to 1-foot (0.1 m to 0.3 m)
Thin Bedded	1 1/4-inch to 4-inch (30 mm to 100 mm)
Very Thin Bedded	1/2-inch to 1 1/4-inch (10 mm to 30 mm)
Thickly Laminated	1/8-inch to 1/2-inch (3 mm to 10 mm)
Thinly Laminated	1/8-inch or less "paper thin" (<3 mm)

ROCK VOIDS

Voids	Void Diameter
Pit	<6 mm (<0.25 in)
Vug	6 mm to 50 mm (0.25 in to 2 in)
Cavity	50 mm to 600 mm (2 in to 24 in)
Cave	>600 mm (>24 in)

GRAIN-SIZED TERMINOLOGY

(Typically Sedimentary Rock)

Component	Size Range
Very Coarse Grained	>4.76 mm
Coarse Grained	2.0 mm - 4.76 mm
Medium Grained	0.42 mm - 2.0 mm
Fine Grained	0.075 mm - 0.42 mm
Very Fine Grained	<0.075 mm

ROCK QUALITY DESCRIPTION

Rock Mass Description	RQD Value
Excellent	90 - 100
Good	75 - 90
Fair	50 - 75
Poor	25 - 50
Very Poor	Less than 25

Slightly Weathered: Rock generally fresh, joints stained and discoloration extends into rock up to 25 mm (1 in), open joints may contain clay, core rings under hammer impact.

Weathered: Rock mass is decomposed 50% or less, significant portions of the rock show discoloration and weathering effects, cores cannot be broken by hand or scraped by knife.

Highly Weathered: Rock mass is more than 50% decomposed, complete discoloration of rock fabric, core may be extremely broken and gives clunk sound when struck by hammer, may be shaved with a knife.



SOIL CLASSIFICATION CHART

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50			ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS



Graphic Symbols for Materials and Rock Deposits

	CONCRETE Portland Cement Concrete		METAMORPHIC ROCK Amphibolite, Gneiss, Marble, Phyllite, Quartzite, Schist, Serpentine, Slate
	BITUMINOUS CONCRETE		CHERT
	CLAYSTONE		SANDSTONE Sandstone, Orthoquartzite (Sandstone)
	COAL Coal, Anthracite Coal		SHALE
	CONGLOMERATE/BRECCIA Conglomerate, Breccia		SILTSTONE
	IGNEOUS ROCK Anorthosite, Basalt, Metabasalt, Diabase (Gabbro), Gabbro, Granite/Granodiorite, Hornfels, Pegmatite, Rhyolite/Metarhyolite		NO RECOVERY
	LIMESTONE Limestone, Dolomite		VOID

CENTRAL COUNTY FIRE & RESCUE - HOUSE #6

1151 JUNGS STATION RD.
ST. CHARLES, MO 63303

CONSTRUCTION DOCUMENTS

2026/06/08



ARCHITECTURAL

ARCHIMAGES, INC
143 WEST CLINTON PLACE
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T: 314-965-7445 F: 3114-965-7477
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MEP/FP

HORNER & SHIFRIN
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CIVIL ENGINEER

CEDC

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STRUCTURAL ENGINEER

KPFF

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T: 314.835.0524 F: 314.835.0749

OWNER

CENTRAL COUNTY
1220 CAVE SPRINGS BLVD.
ST. PETERS, MO 63376
T: 636. 970.9700

PROJECT ADDRESS

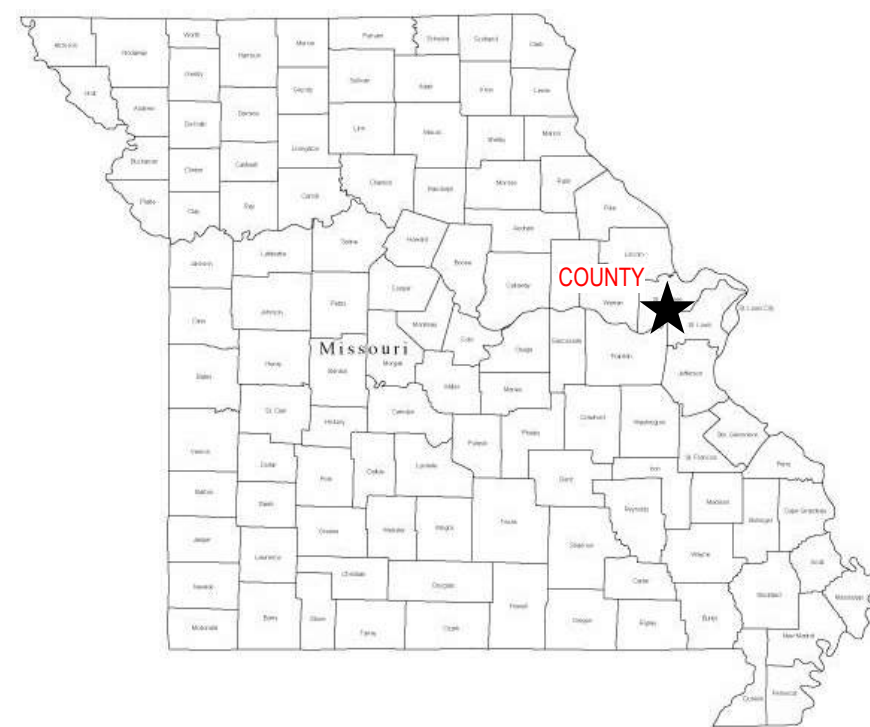
CENTRAL COUNTY FIRE
1151 JUNGS STATION RD
ST. CHARLES, MO 63303

PROJECT LOCATION



STATE MAP

MO



SHEET INDEX

SHEET NUMBER	SHEET NAME	04/17/2026 - JD	06/08/2026 - CD	07/07/2026 - ACD 01	XX/XX/2026	XX/XX/2026
GENERAL						
G000	COVER SHEET					
CIVIL						
C1.0	TITLE SHEET					
C2.0	SPECIFICATION SHEET					
C3.0	PHASE 1 - EXISTING CONDITIONS & FACILITIES REMOVAL PLAN					
C4.0	PHASE 1 - SITE AND GRADING PLAN					
C5.0	PHASE 1 - SITE GEOMETRY AND UTILITY PLAN					
C6.0	PHASE 2 - EXISTING CONDITIONS & FACILITIES REMOVAL PLAN					
C7.0	PHASE 2 - SITE AND GRADING PLAN					
C8.0	PHASE 2 - SITE GEOMETRY AND UTILITY PLAN					
C9.0	PHASE 3 - EXISTING CONDITIONS & FACILITIES REMOVAL PLAN					
C10.0	PHASE 3 - SITE AND GRADING PLAN					
C11.0	PHASE 3 - SITE GEOMETRY AND UTILITY PLAN					
C12.0	SEWER PROFILES AND HYDRAULIC CALCULATIONS					
C13.0	SEWER DETAILS					
C14.0	SITE DETAILS					
C14.1	SITE DETAILS					
C15.0	BEST MANAGEMENT PRACTICES PLAN					
C16.0	DRAINAGE AREA PLAN					
C17.0	STORMWATER POLLUTION PREVENTION PLAN					
C17.1	STORMWATER POLLUTION PREVENTION PLAN DETAILS					
LANDSCAPE						
L1.01	LANDSCAPE PLAN					
L2.01	LANDSCAPE SPECIFICATIONS					
L3.01	WATERING DIAGRAM					
ARCHITECTURAL						
A001	TYP NOTES, SYMB. & RULES					
A002	TYPICAL ROOFING HEIGHTS					
A003	FRAMING DETAILS					
A004	LIFE SAFETY PLAN					
AS111	ARCHITECTURAL SITE PLAN					
AS112	ARCHITECTURAL SITE PLAN					
A111	FLOOR PLAN					
A112	DIMENSION FLOOR PLAN					
A113	SLAB EDGE PLAN					
A121	REFLECTED CEILING PLAN					
A131	ROOF PLAN					
A201	EXTERIOR ELEVATIONS					
A301	BUILDING SECTIONS					
A311	WALL SECTIONS					
A312	WALL SECTIONS					
A313	WALL SECTIONS					
A314	WALL SECTIONS					
A315	WALL SECTIONS					
A316	WALL SECTIONS					
A411	ENLARGED FLOOR PLANS					
A412	ENLARGED FLOOR PLAN					
A413	ENLARGED FLOOR PLANS					
A414	ENLARGED FLOOR PLANS					
A415	ENLARGED FLOOR PLANS					
A441	INTERIOR ELEVATIONS					
A442	INTERIOR ELEVATIONS					
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A502	PARTITION DETAILS					
A503	DETAILS					
A504	DETAILS					
A505	DETAILS					
A506	DETAILS					
A507	DETAILS					
A521	CABINET SECTION DETAILS					
A522	CABINET SECTION DETAILS					
A601	DOOR SCHEDULES & DETAILS					
A602	STOREFRONT ELEVATIONS					
A701	EQUIPMENT & FURNITURE PLAN					
I101	FINISH FLOOR PLAN, FINISH SCHED.					
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S002	SPECIAL INSPECTIONS					
S003	TYPICAL DETAILS					
S004	TYPICAL DETAILS					
S005	TYPICAL DETAILS					
S006	SHEARWALL SCHEDULE, ELEV. & DETAILS					
S007	TYPICAL DETAILS					
S008	TYPICAL DETAILS					
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S010	STORM SHELTER LOADING INFORMATION					
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S202	HIGH ROOF FRAMING PLAN					
S301	FOUNDATION SECTIONS AND DETAILS					
S401	FRAMING SECTIONS AND DETAILS					
S402	FRAMING SECTIONS AND DETAILS					
S403	FRAMING SECTIONS AND DETAILS					
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M203	MECHANICAL DUCTWORK ATTIC PLAN					
M204	MECHANICAL PIPING ATTIC PLAN					
M205	MECHANICAL ROOF PLAN					
M501	MECHANICAL DETAILS					
M502	MECHANICAL DETAILS					
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P201	PLUMBING FLOOR PLAN					
P202	PLUMBING ROOF PLAN					
P601	PLUMBING DETAILS					
P602	PLUMBING DETAILS					
P601	PLUMBING SCHEDULES					
FIRE PROTECTION						
FP001	FIRE PROTECTION SYMBOLS & ABBR.					
FP201	FIRE PROTECTION PLAN					
FP202	FIRE PROTECTION ATTIC PLAN					
FP501	FIRE PROTECTION DETAILS					
ELECTRICAL						
E001	ELECTRICAL SYMBOLS & ABBREVIATIONS					
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E201	POWER PLAN					
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E203	EQUIPMENT POWER ATTIC PLAN					
E204	ROOF EQUIPMENT POWER PLAN					
E301	LIGHTING PLAN					
E401	AUXILIARY PLAN					
E402	FEATHERSHARK DETAILS					
E403	FEATHERSHARK DETAILS					
E501	ELECTRICAL DETAILS AND SCHEMATICS					
E502	ELECTRICAL DETAILS AND SCHEMATICS					
E601	ELECTRICAL SCHEDULES					
E602	ELECTRICAL SCHEDULES AND ONE-LINE					
Grand total: 114						

Roy A. Manson

MO Architect License No. A-6661
Expires: 12/31/26

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Proposed:
CENTRAL COUNTY FIRE &
RESCUE - HOUSE #6

ST. CHARLES, MO 63303

1151 JUNG STATION RD

COVER SHEET

No. Date

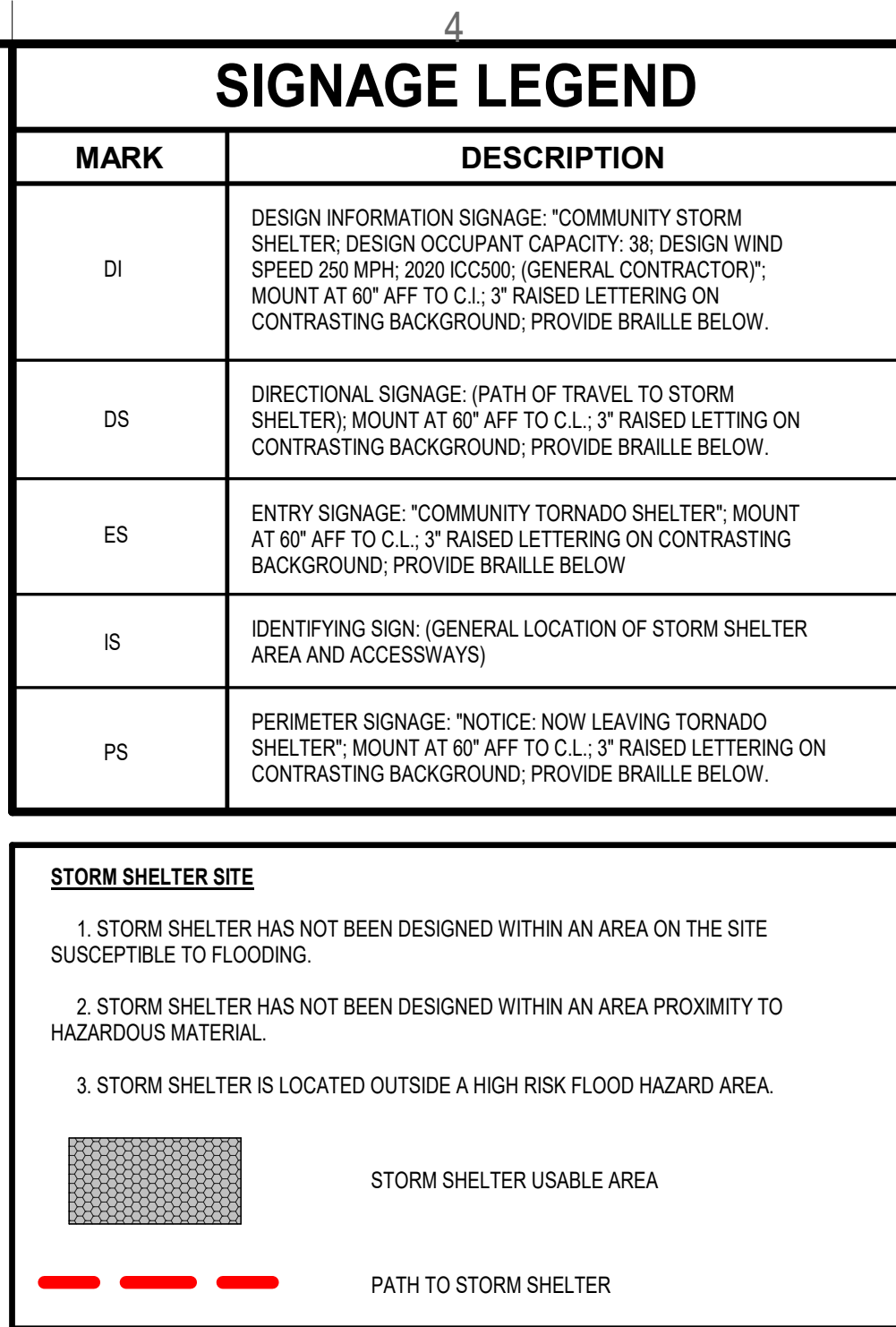
Revision

Proposed:

Project No.
24057

Sheet No.
G000

Date
2026/06/08

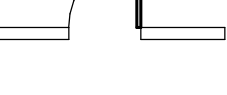


5 2020 ICC 500			
TOTAL FACILITY ACTUAL OCCUPANTS: 38 OCC (AS SLIDER SHELTER)			
TRAVEL DISTANCE TO ICC 500 TORNADO SHELTER			
1000' MAX RECOMMENDED			
108"3' MAX PROVIDED (FROM BUNK ROOM #118)			
ICC500 501.1 OCCUPANT DENSITY: STANDING: 1 OCCUPANT PER 5 SF			
ROOM		USABLE AREA	OCCUPANTS
EXTRACTOR TROILET		63 SF	17
EXTRACTOR SCBA		+ 138 SF	+ 64
		401 SF	81
TOTAL USABLE SF = 401 SF			
TOTAL OCCUPANTS = 81 OCC WITHOUT WHEELCHAIR			
WHEELCHAIRS: 1:200 OCCUPANTS = 40/1000 = 2 OCCUPANT WHEELCHAIR SF = 10 SF / OCC = 2 X 10 = 20 SF			
NON-WHEELCHAIR OCCUPANTS: 81 - 2 = 79 OCCUPANTS			
TOTAL SHELTER OCCUPANTS = 79 OCCUPANTS			
ICC500 503.1, 503.2, 503.3, 803.4 LOCATIONS OF ICC500 COMPLIANT DOORS NOTED ON STORM SHELTER PLAN AND DOOR SCHEDULE. SEE DOOR HARDWARE AND DOOR SPECIFICATIONS FOR LATCHING AND IMPACT REQUIREMENTS.			
ICC500 504, 508 SEE SIGNAGE PLANS AND LIFE SAFETY PLANS			
ICC500 601.1: 2 HR FIRE BARRIER WHERE ABUTTING BUILDING			
ICC500 602.1: (1) FIRE EXTINGUISHER REQUIRED; (1) PROVIDED			
ICC500 702.3: 1 TOILETS FOR FIRST 50 OCCUPANTS; 79/50 = 1 WATER CLOSETS REQUIRED (1) PROVIDED			
ICC500 702.3: LAVATORY NOT REQUIRED IF <50 OCCUPANTS			
ICC500 702.6: (1) FIRST AID KIT PROVIDED (ANSI Z308.1) CLASS A			

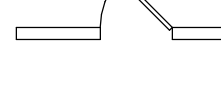
6

TYP DOOR LEGEND

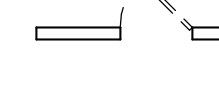
NEW CONSTRUCTION



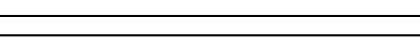
EXISTING



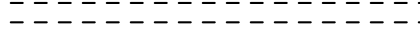
DEMOLITION



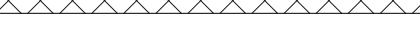
WALL TYPE LEGEND



NEW UNRATED PARTITION



DEMOLISHED PARTITION



CMU PARTITION



EXISTING UNRATED PARTITION



SMOKE RESISTANT PARTITION



SMOKE BARRIER PARTITION



1 HOUR FIRE PARTITION



1 HOUR FIRE & SOUND CONTROL



1 HOUR FIRE & SMOKE PARTITION

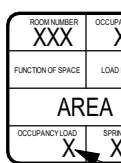
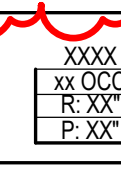
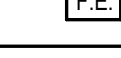
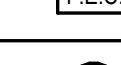
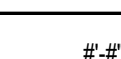


2 HOUR FIRE PARTITION



2 HOUR FIRE & SMOKE PARTITION

LIFE SAFETY PLAN LEGEND

SYMBOL	DESCRIPTION								
	ROOM OCCUPANCY LOAD TAG OCCUPANCY CLASSIFICATION MAX. FLOOR AREA ALLOWANCES PER OCCUPANT ROOM AREA (SQUARE FEET) INDICATES SPACE IS SPRINKLERED (YES/NO) OCCUPANCY LOAD								
	DOOR EGRESS TAG # OF OCCUPANTS ALLOWED TO EGRESS THRU OPENING PER CODE WIDTH REQUIRED WIDTH PROVIDED								
	FIRE EXTINGUISHER ON WALL MOUNTED BRACKET.								
	FIRE EXTINGUISHER IN CABINET.								
	EXIT SIGN - SEE ELECTRICAL DRAWINGS.								
	EXIT SIGN WITH EMERGENCY LIGHTS - SEE ELECTRICAL DRAWINGS.								
	EMERGENCY LIGHT - SEE ELECTRICAL DRAWINGS.								
	EGRESS PATH DISTANCE OF PATH								
EMERGENCY LIGHTS ARE LOCATED OVER ALL EXTERIOR EXIT DOORS - SEE ELEC. DRAWINGS.									
CODE INFORMATION									
APPLICABLE CODES • 2021 INTERNATIONAL BUILDING CODE • 2021 INTERNATIONAL FIRE CODE • 2021 NATIONAL ELECTRICAL CODE (NFPA 70) • 2021 INTERNATIONAL ENERGY CONSERVATION CODE • 2021 INTERNATIONAL MECHANICAL CODE • 2021 INTERNATIONAL FUEL GAS CODE • 2021 INTERNATIONAL PLUMBING CODE • 2021 INTERNATIONAL PROPERTY MAINTENANCE CODE • 2020 ICC 500 (STORM SHELTER CODE)									
ALLOWABLE BUILDING HEIGHTS & AREAS <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> • USE GROUP: B (PER IBC SECTION 304.1) - R-2 (PER IBC SECTION 310.3) - S-1 (PER IBC SECTION 311.3) </td> <td style="width: 50%; vertical-align: top;"> • CONSTRUCTION TYPE: V (PER IBC SECTION 602.5) </td> </tr> </table>		• USE GROUP: B (PER IBC SECTION 304.1) - R-2 (PER IBC SECTION 310.3) - S-1 (PER IBC SECTION 311.3)	• CONSTRUCTION TYPE: V (PER IBC SECTION 602.5)						
• USE GROUP: B (PER IBC SECTION 304.1) - R-2 (PER IBC SECTION 310.3) - S-1 (PER IBC SECTION 311.3)	• CONSTRUCTION TYPE: V (PER IBC SECTION 602.5)								
FIRE STATION BUILDING:									
ALLOWABLE AREAS - PER IBC TABLE 506.2: OCCUPANCIES: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">B - 36,000 SF</td> <td style="width: 50%; text-align: right;">ACTUAL AREA</td> </tr> <tr> <td>R-2 - 20,000 SF</td> <td style="text-align: right;">2,181 SF</td> </tr> <tr> <td>S-1 - 36,000 SF</td> <td style="text-align: right;">3,945 SF</td> </tr> <tr> <td></td> <td style="text-align: right;">5,813 SF</td> </tr> </table>	B - 36,000 SF	ACTUAL AREA	R-2 - 20,000 SF	2,181 SF	S-1 - 36,000 SF	3,945 SF		5,813 SF	TOTAL: 11,939 SF
B - 36,000 SF	ACTUAL AREA								
R-2 - 20,000 SF	2,181 SF								
S-1 - 36,000 SF	3,945 SF								
	5,813 SF								
ALLOWABLE STORES - PER IBC TABLE 504.4: OCCUPANCIES: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">B - 3</td> <td style="width: 50%; text-align: right;">ACTUAL STORES</td> </tr> <tr> <td>R-2 - 3</td> <td style="text-align: right;">1</td> </tr> <tr> <td>S-1 - 2</td> <td style="text-align: right;">1</td> </tr> </table>	B - 3	ACTUAL STORES	R-2 - 3	1	S-1 - 2	1	TOTAL: 2		
B - 3	ACTUAL STORES								
R-2 - 3	1								
S-1 - 2	1								
ALLOWABLE HEIGHT - PER IBC TABLE 504.3: OCCUPANCIES: B, R-2, S-1 = 75'-0"	ACTUAL HEIGHT 24'-0"								

FIRE RESISTANCE RATING REQUIREMENTS

TYPE I-B CONSTRUCTION	
STRUCTURAL FRAME:	0 HR
EXTERIOR WALLS:	0 HR
INTERIOR:	0 HR
NON-BEARING WALL & PARTITION	0 HR
INTERIOR:	0 HR
FLOOR CONSTRUCTION	0 HR
INCLUDING SUPPORTING BEAMS & JOISTS:	0 HR
ROOF CONSTRUCTION	0 HR
INCLUDING SUPPORTING BEAMS & JOISTS:	0 HR

THE BUILDING FULLY IS SPRINKLERED THROUGHOUT
 IN ACCORDANCE WITH SECTION 903.3.1.1 (NFPA 13 SPRINKLER SYSTEM) AND
 903.2.1.0

REQUIRED SEPARATION OF OCCUPANCIES (PER IBC TABLE 508.4)
 1 HR SEPARATION BETWEEN R2 AND R2 OCCUPANCY
 1 HR SEPARATION BETWEEN R2 AND S-1 OCCUPANCY

MEANS OF EGRESS

OCCUPANT LOADS: (IBC 2021TABLE 1004.5)
 FIRE STATION BUILDING
 150 SF PER OCCUPANT (B)
 200 SF PER OCCUPANT (R-2)
 300 SF PER OCCUPANT (S-1)
 4,191 / 150 = 28 "B" OCCUPANTS
 2,784 / 200 = 14 "R-2" OCCUPANTS
 4,965 / 300 = 17 "S-1" OCCUPANTS
 TOTAL: 59 OCCUPANTS

EXIT TRAVEL DISTANCE: (IBC 2021 TABLE 1017.2)
 (B) 200' FT MAX. (WITH SPRINKLER AND BEAM SYSTEM)
 (R-2) 250' FT MAX. (WITH SPRINKLER SYSTEM)
 (S-1) 250' FT MAX. (WITH SPRINKLER SYSTEM)

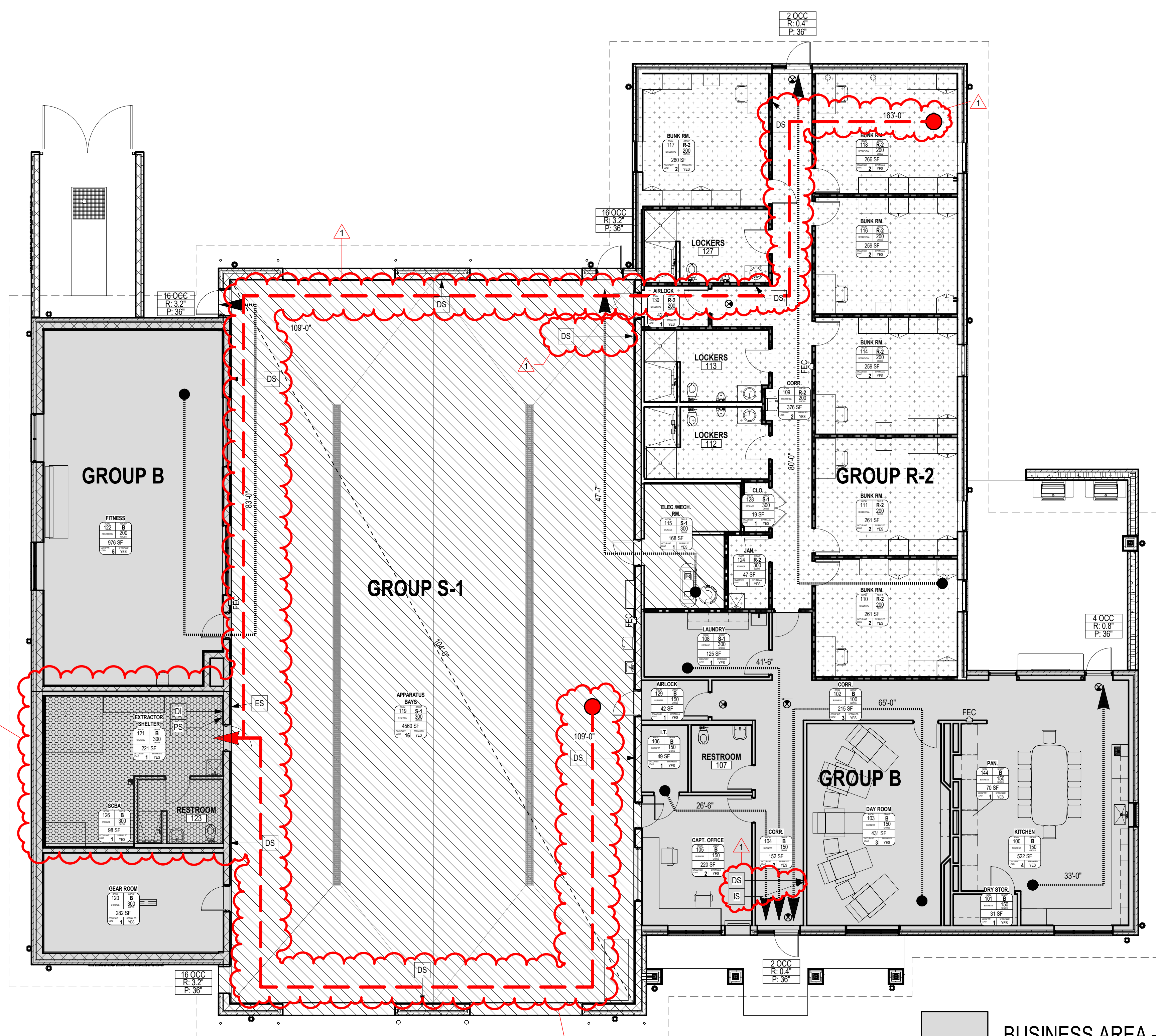
CORRIDOR RATING: (IBC 2021 TABLE 1020.2)
 NOT REQUIRED WITH A (NFPA 13) SPRINKLER SYSTEM

DEAD END CORRIDOR: (IBC 2021 SECTION 1020.4)
 50' FT MAX ALLOWED WITH BUSINESS (B), RESIDENTIAL (R-2), AND STORAGE (S-1) OCCUPANCY AND A (NFPA 13) SPRINKLER SYSTEM.

EXIT REQUIREMENTS: (IBC 2021 TABLE 1006.3.3)
 2 REQUIRED
 BUILDING 6 PROVIDED

2021 IECC TABLE				
OPAQUE ASSEMBLIES - ZONE 4		REQUIRED	PROVIDED	
ROOF - INSULATION ENTIRELY ABOVE DECK		R30 CI		
WALLS - METAL FRAMED		R13 + R7.5 CI		
METAL BUILDING		R19 + R13 CI		
BELOW GRADE WALLS		R 7.5 CI		
MASS WALLS		R 9.5 CI		
UNHEATED SLABS		R10 FOR 2' BELOW		
OPAQUE DOORS		U-0.61 MAX		
NON-SWINGING DOORS		R4.75		
FENESTRATION ASSEMBLIES - ZONE 4		REQUIRED	PROVIDED	
CURTAIN WALL / STOREFRONT		U-0.38 MAX		
ENTRANCE DOOR		U-0.77 MAX		
SHGC		0.40 MAX		
MINIMUM PLUMBING FIXTURE COUNT (IPC 2021 - TABLE 403.1)				
CLASSIFICATION	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAIN	SERVICE SINK
GROUP B	1 PER 25 FOR FIRST 50, 1 PER 50 FOR REMAINDER	1 PER 40 FOR FIRST 80, 1 PER 80 FOR REMAINDER	1 PER 100	1 SERVICE SINK REQ'D
MALE	28/25 = 2 W.C.	28/40 = 1		
FEMALE	28/25 = 2 W.C.	28/40 = 1 LAV.	28/100 = 1 D.F	
GROUP B-2	MALE: 1 PER 10 FEMALE: 1 PER 10		1 PER 100	1 SERVICE SINK REQ'D
MALE	14/100 = 1 W.C.	117/200 = 1 LAV.		
FEMALE	117/65 = 2 W.C.	117/200 = 1 LAV.	234/500 = 1 D.F	
GROUP S-1	1 PER 100	1 PER 100	1 PER 1000	1 SERVICE SINK REQ'D
MALE	4/100 = 1 W.C.	4/100 = 1 LAV.		
FEMALE	4/100 = 1 W.C.	4/100 = 1 LAV.	77/1000 = 1 D.F	

PER IPC 2021 (SECTION 242.2), UP TO REQUIRED MALE AND FEMALE WCs MAY BE SUBSTITUTED WITH 67% INSTANTANEOUSLY AVAILABLE COLD AND 50% IN ALL OTHER OCCUPANCIES.



-  BUSINESS AREA - 4,191 SF
-  RESIDENTIAL AREA - 2,784 SF
-  STORAGE AREA - 4,965 SF

KEYED NOTES FLOOR PLAN	
MARK	DESCRIPTION
1	BUILT-IN PANTRY W/ LOCK, TYP. SEE INTERIOR ELEVATIONS.
2	BUILT-IN OVERHEAD CABINET ABOVE REFRIGERATOR, TYP. SEE INTERIOR ELEVATIONS.
3	PROVIDE & INSTALL STEEL POWDERCOATED LOCKERS, FRONT VENTED ATHLETIC LOCKERS, HASP FOR OWNERS PADLOCK, SINGLE TIER 12"W X 24"D X 72"H, HADRIAN GLADIATOR OR APPROVED EQUAL.
4	CONTRACTOR TO PROVIDE RECESSED SLAB AT DOOR OPENING TO ACCOMMODATE DROP SILL AND TO ALLOW FOR DOOR THRESHOLD. INSTALL PER MANUFACTURER SPECIFICATIONS.

FLOOR PLAN GENERAL NOTES	
1. REFERENCE GENERAL NOTES FOR ADDITIONAL APPLICABLE INFORMATION.	
2. THE GENERAL CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES THAT MAY AFFECT THE WORK PRIOR TO COMMENCING CONSTRUCTION.	
3. ALL DIMENSIONS ARE TO THE FINISH FACE OF NEW PARTITIONS AND TO FINISH FACE OF EXISTING INTERIOR PARTITIONS AND PERIMETER WALLS TO REMAIN UNLESS NOTED OTHERWISE.	
4. INSTALL REDUCER STRIPS BETWEEN DIFFERENT FLOOR FINISH LEVELS AND FINISHES AS REQUIRED.	
5. PATCH ALL PARTITIONS AFFECTED BY THE DEMOLITION OF INTERSECTING PARTITIONS.	
6. THE GENERAL CONTRACTOR SHALL INSTALL REQUIRED WALL BLOCKING FOR ALL CASEWORK, SHELVING, AND EQUIPMENT. SEE DRAWINGS FOR EXACT LOCATIONS.	
7. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHOWN ON THE DRAWINGS IS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.	
8. ALL INTERIOR DIMENSIONS ARE TO FINISHED FACE OF GYP. BD. UNLESS NOTED OTHERWISE.	
9. PROVIDE PLASTIC DUST COVER TO PROTECT EQUIPMENT, FILES, ETC. WHERE REQUIRED.	
10. MAINTAIN ALL NECESSARY COMMUNICATIONS AND FIRE PROTECTION SYSTEMS, EXIT CORRIDORS, AND ITEMS AFFECTING THE HEALTH AND SAFETY OF ALL OCCUPANTS AT ALL TIMES THROUGHOUT CONSTRUCTION.	
11. MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK TO BE DESIGN-BUILD. INTENT OF THIS WORK IS REFLECTED ON THE DRAWINGS. IF SUCH WORK IS OUTSIDE OF THE PROJECT AREA, CONTACT THE OWNER FOR RESTRICTIONS THAT MAY APPLY TO THOSE AREAS AND COORDINATE AND SCHEDULE ALL WORK. PROTECT ADJACENT AREAS, EQUIPMENT, ETC.	
12. ALL BLOCKING SHALL BE FIRE TREATED.	

Roy A. Manson

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Proposed:

CENTRAL COUNTY FIRE &
RESCUE - HOUSE #6

ST. CHARLES, MO 63303
1151 JUNG'S STATION RD

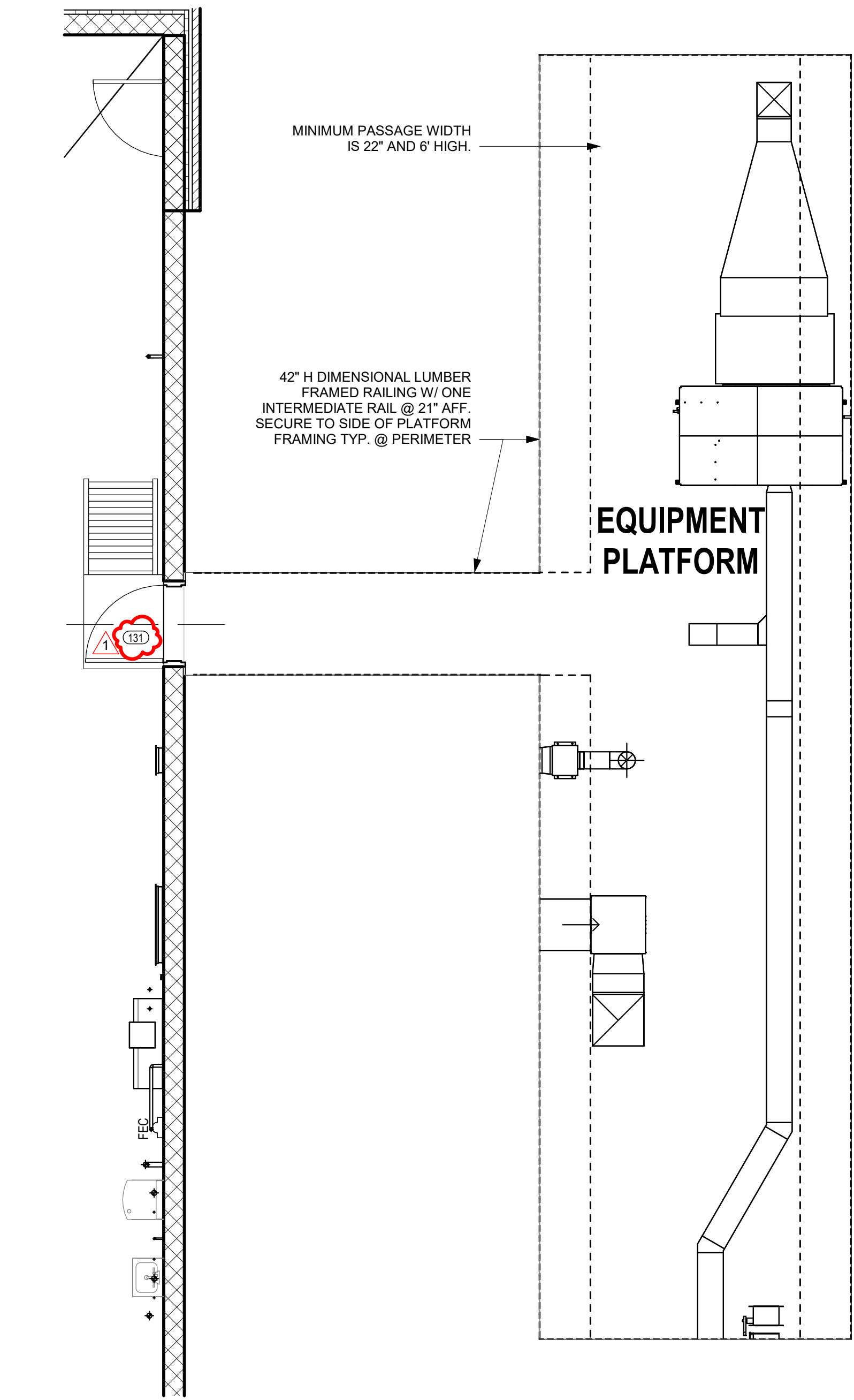
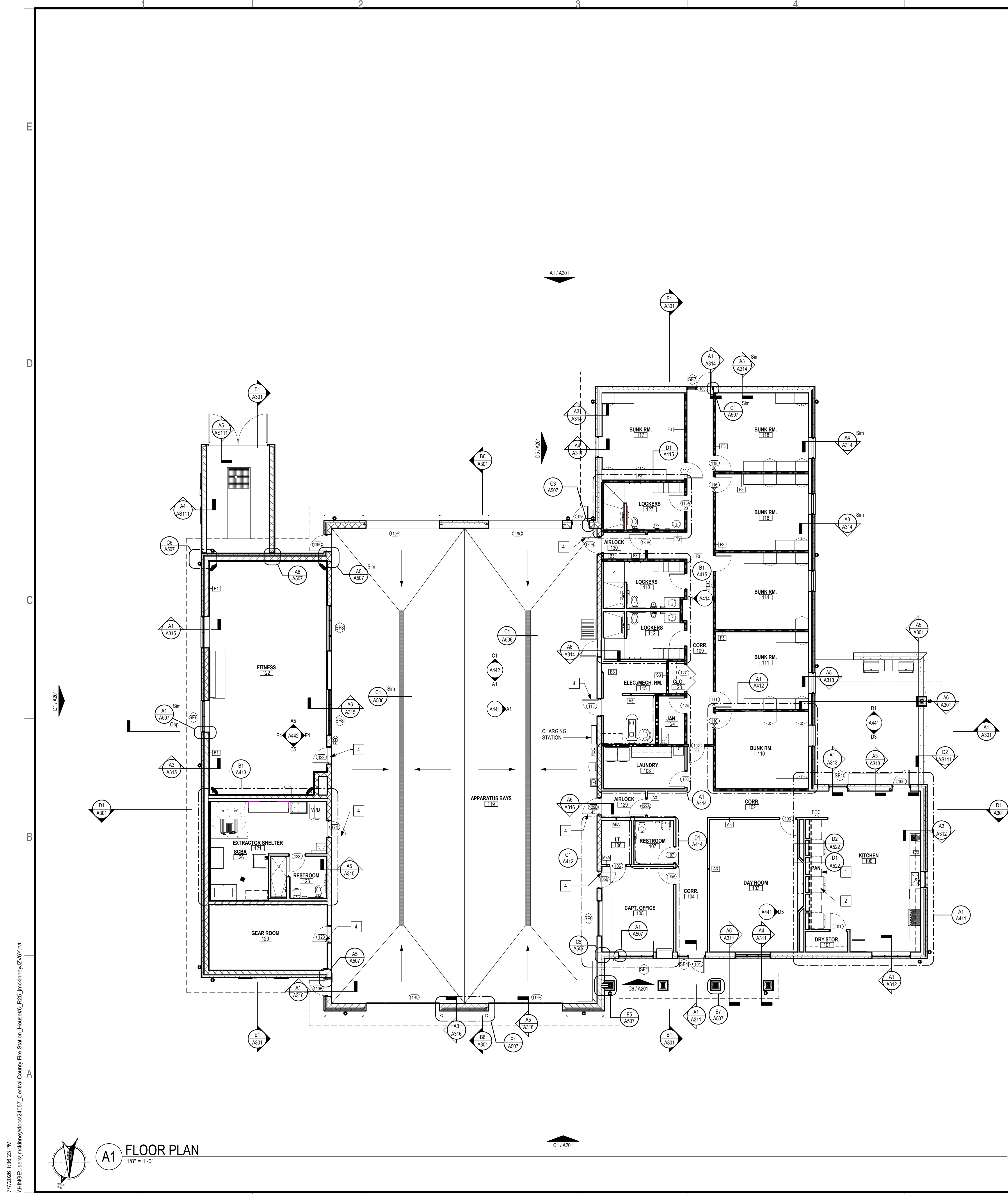
No.	Date	Revision
1	7/7/2026	ADDITUM 01

Project No.
24057

Sheet No.
A111

Date
2026/06/08

FLOOR PLAN

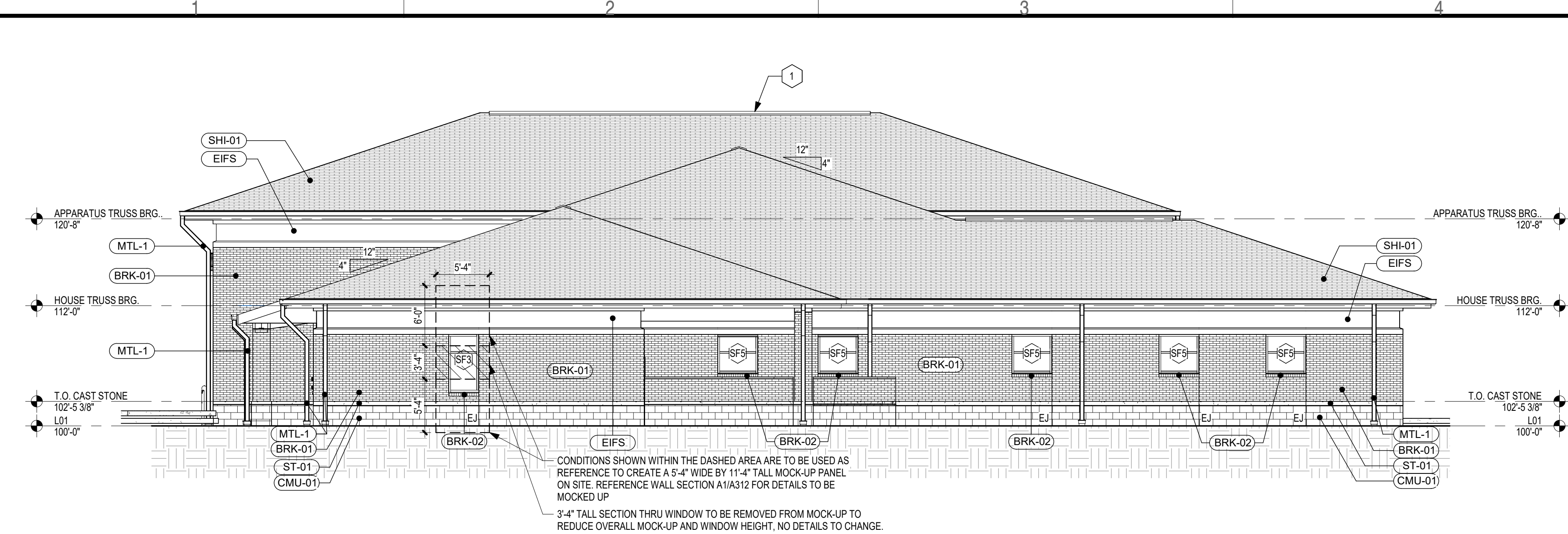


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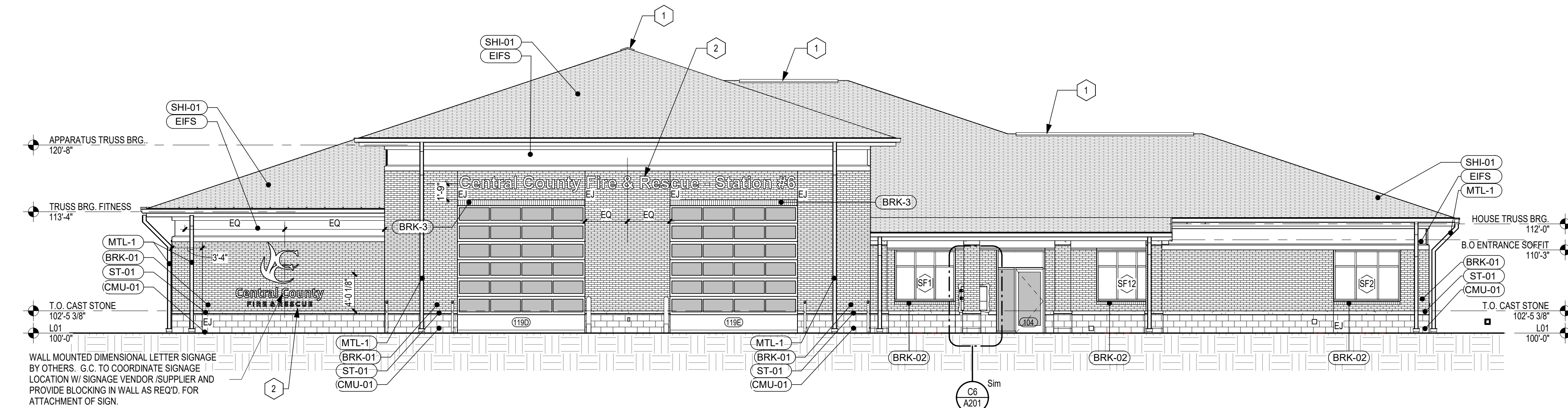
A1 FLOOR PLAN
1/8" = 1'-0"

A6 MEZZANINE
1/4" = 1'-0"

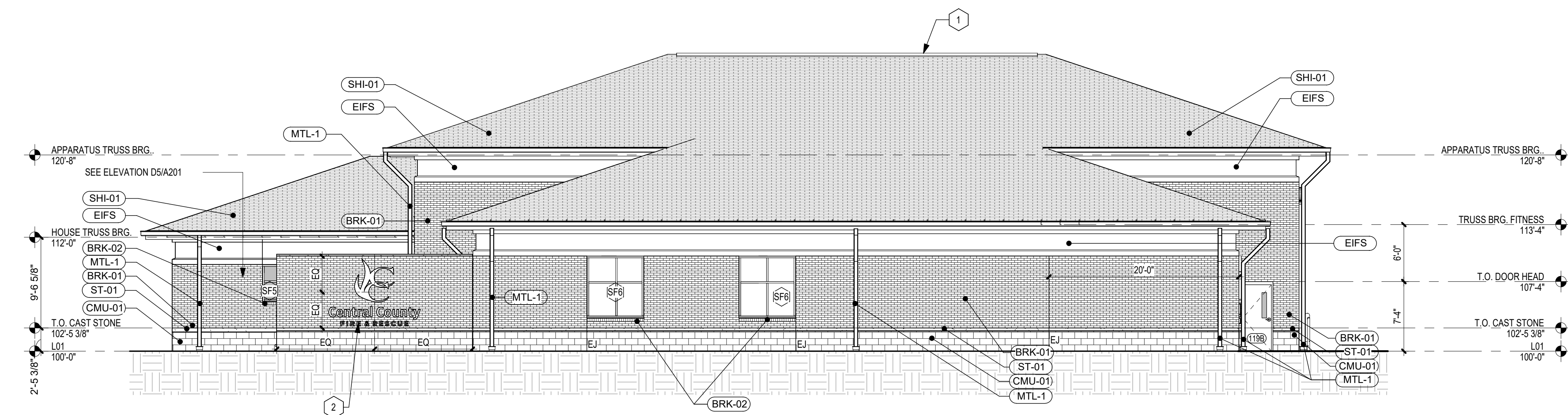
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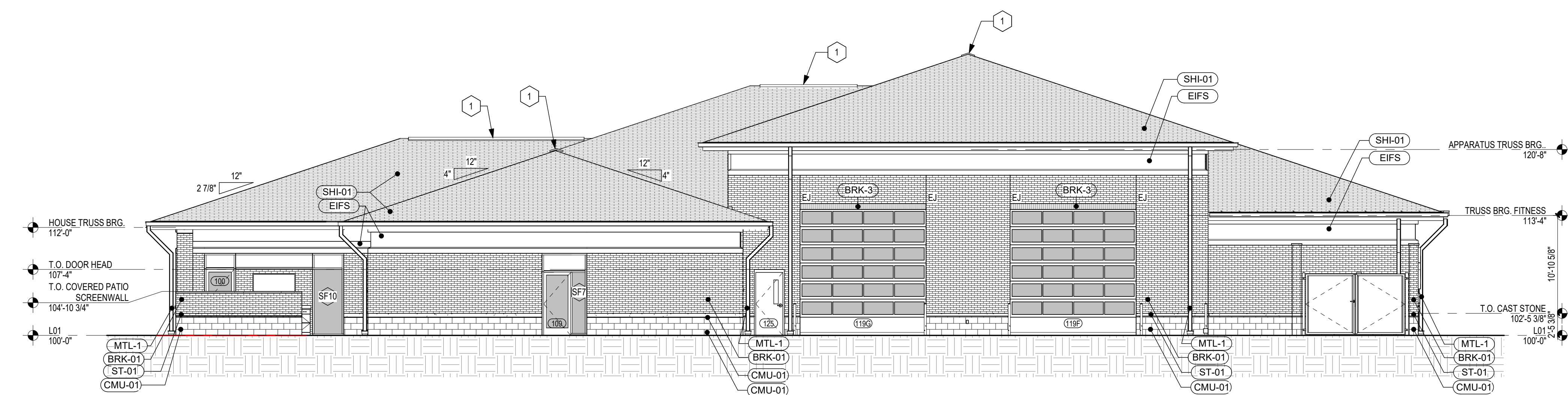
B1 EAST EXTERIOR BUILDING ELEVATION
1/8" = 1'-0"



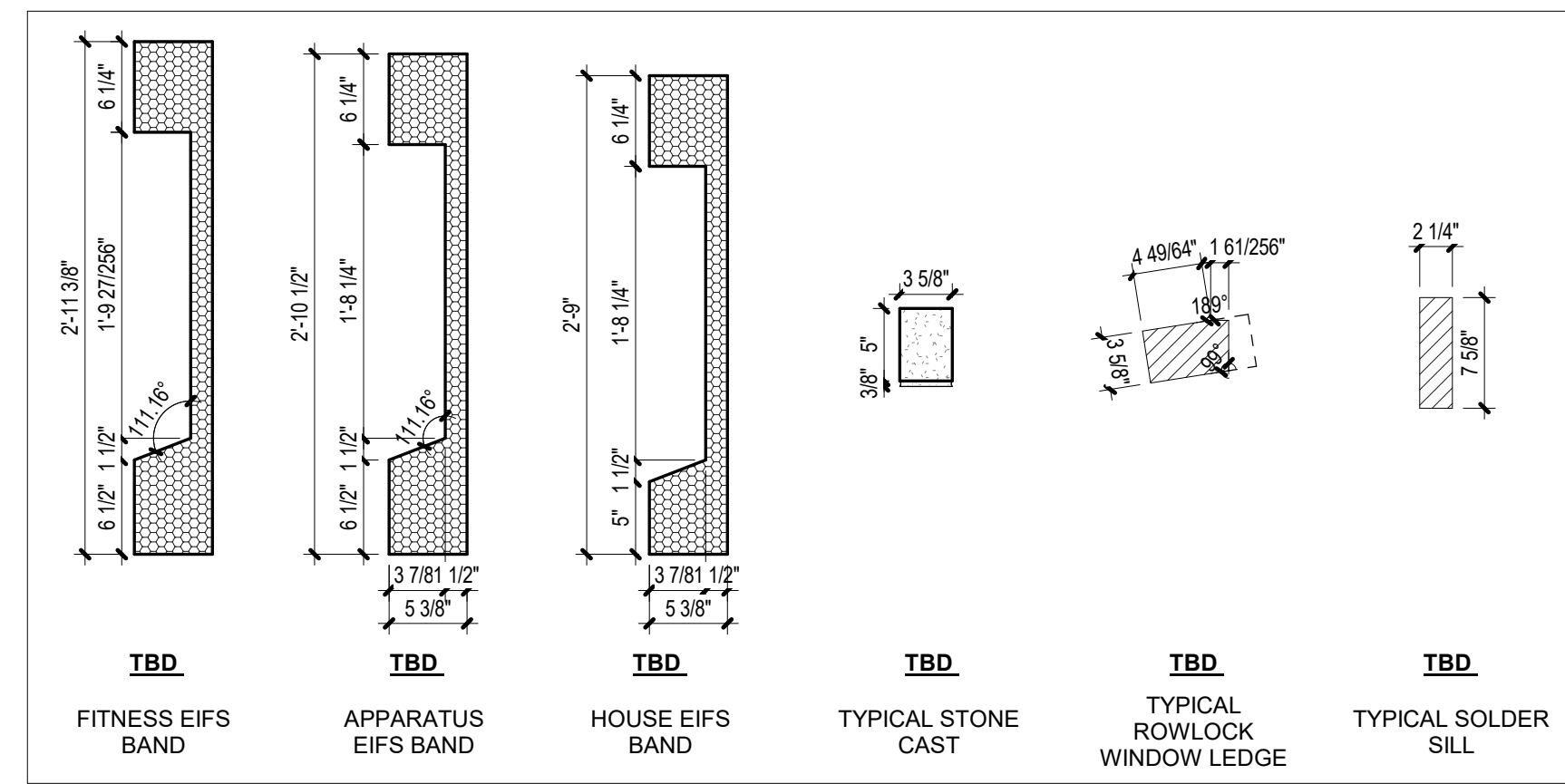
C1 SOUTH EXTERIOR BUILDING ELEVATION
1/8" = 1'-0"



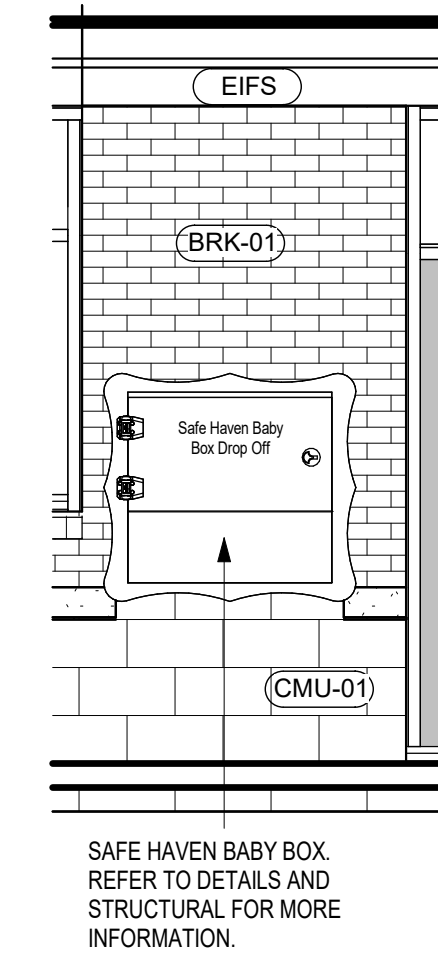
D1 WEST EXTERIOR BUILDING ELEVATION
1/8" = 1'-0"



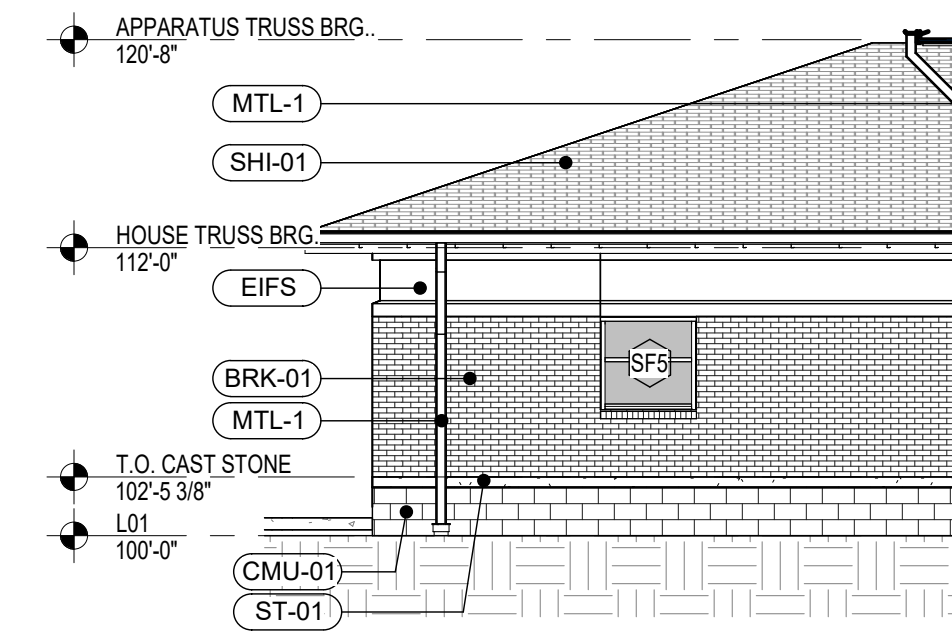
A1 NORTH EXTERIOR BUILDING ELEVATION
1/8" = 1'-0"



E5 TYPICAL SWEEP PROFILES
1" = 1'-0"



C6 BABY BOX SAFE HAVEN
3/8" = 1'-0"



D5 WEST EXTERIOR BUILDING ELEVATION 2
1/8" = 1'-0"

EXT. ELEVATION GEN. NOTES

- PROJECT NOTES ON SHEET A001 APPLY TO ALL SHEETS.
- HEIGHTS OF WALLS REFERENCED ARE FROM FINISH FLOOR 100'-0".
- SEE ROOF PLAN FOR ITEMS LOCATED ON THE ROOF - NOT SHOWN IN ELEVATIONS.
- SEE MEPPF DRAWINGS FOR ALL MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION ITEMS.
- WHERE GUTTERS ARE INDICATED, GUTTERS SHALL BE PRE-FINISHED METAL PLUMBING CONTRACTOR TO VERIFY IF SIZE IS ADEQUATE.
- WHERE DOWNSPOUTS INDICATED, GUTTERS SHALL BE PRE-FINISHED METAL WITH BRACKETS TOP AND BOTTOM OR 8'-0" O.C. MAX. PLUMBING CONTRACTOR TO VERIFY IF SIZE IS ADEQUATE. SEE EXTERIOR ELEVATIONS FOR LOCATIONS.
- METAL COPING / FASCIAS SHALL BE PRE-FINISHED METAL. INTERSECTION SHAPES SHALL BE MITERED, WELDED AND FINISHED TO HAVE A MONOLITHIC APPEARANCE UNLESS OTHERWISE INDICATED.
- PROVIDE SEALANT BETWEEN ALL DISSIMILAR MATERIALS, e.g. BRG TO FLASHING, CMU TO FLASHING, WINDOWS / DOORS TO BRICK / CMU.

KEYED NOTES EXTERIOR ELEV.

Key Value Keynote Text

EXT. BLDG. MTLs. LEGEND

MARK	DESCRIPTION
BRK-1	CLAY FACE BRICK VENEER BASIS OF DESIGN: BRICK CRAFT COLOR: BOSTONIAN SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8") BOND: RUNNING BOND MORTAR: SOS 10X LIGHT BUFF DISTRIBUTED BY: BEST BLOCK CONTACT: CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL
BRK-2	CLAY FACE BRICK VENEER BASIS OF DESIGN: BRICK CRAFT COLOR: BOSTONIAN SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8") BOND: ROWLOCK SILL MORTAR: SOS 10X LIGHT BUFF DISTRIBUTED BY: BEST BLOCK CONTACT: CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL
BRK-3	CLAY FACE BRICK VENEER BASIS OF DESIGN: BRICK CRAFT COLOR: BOSTONIAN SIZE: MODULAR (3 5/8" X 2 1/4" X 7 5/8") BOND: SOLDIER COURSE LINTEL MORTAR: SOS 10X LIGHT BUFF DISTRIBUTED BY: BEST BLOCK CONTACT: CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL
CMU-01	SPLIT FACE CMU BLOCK BASIS OF DESIGN: MIDWEST BLOCK & BRICK COLOR: SOFT GOLD DISTRIBUTED BY: MIDWEST BLOCK AND BRICK CONTACT: CHUCK DAVIS 314.291.3200 CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL
MTL-1	GUTTERS & DOWNSPOUTS BASIS OF DESIGN: PAC-CLAD COLOR: MUSKET GRAY 614369 TEXTURE: SMOOTH PREFINISHED PROFILE: PAC-TITE WR - OFFSET SIZE: 6" W X 5" H
SHI-1	ASPHALT SHINGLES BASIS OF DESIGN: CERTANTEED SERIES: LANDMARK PRO COLOR: WEATHERED WOOD
SOF-1	EXTERIOR VENTED SOFFIT BASIS OF DESIGN: PAC-CLAD FLUSH, WIDE VENTED SOFFIT, ALUMINUM .040 COLOR: MUSKET GRAY 614369 TEXTURE: SMOOTH PREFINISHED SIZE: 2'-0" L X 1'-0" W TYP. U.N.O.
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM BASIS OF DESIGN: DRYVIT COLOR: 3113 SANDSTONE TEXTURE: SANDPEBBLE, FINE SEE DRAWINGS FOR PROFILE DESIGN. CONTRACTOR TO PROVIDE MOCK-UP FOR ARCHITECT APPROVAL
STN-1	LIME STONE BANDING BASIS OF DESIGN: SEMCO STONE STYLE: CUSTOM, INDIANA LIME STONE, HONED COLOR: CASTLE, BUFF MORTAR: SOS 10X LIGHT BUFF SIZE/PATTERN: REFER TO LIME STONE PROFILES ON DRAWINGS.
STF-1	STOREFRONT & GLAZING BASIS OF DESIGN: MATCH CENTRAL COUNTY FIRE STATION 5 PROTOTYPE PRODUCT: YES 45 TU, 2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM FINISH: ANOD, DARK BRONZE GLAZING: 1" INSULATED GLASS VITRO SOLARBAN 60 (2) + CLEAR REFERENCE GLAZING SCHEDULE AND ARCHITECTURAL SPECS.

Roy A. Manson

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Expires: 12/31/26

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Proposed:
CENTRAL COUNTY FIRE &
RESCUE - HOUSE #6
ST CHARLES, MO 63303
1151 JUNG'S STATION RD

No.	Date	Revision
1	7/7/2026	Addressed 01

Project No.
24057
Sheet No.
A201
Date
2026/06/08

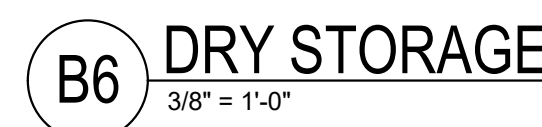
EXTERIOR ELEVATIONS



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KEYED NOTES INT. ELEV.

MARK	DESCRIPTION
1	PAINT AS SCHEDULED. SEE FINISH PLAN SCHEDULE.
2	BASE AS SCHEDULED. SEE FINISH PLAN SCHEDULE.
8	BABY BOX SURRENDER DEVICE. SEE MFR & INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
9	21" METAL COUNTERTOP SUPPORT BRACKET.
10	25D PLASTIC LAMINATE COUNTERTOP & 4" BACKSPLASH PLASTIC LAMINATE BASE CABINETS AS INDICATED. SEE FINISH SCHEDULE FOR COLOR.
20	42" FLAT PANEL LED TV. COORDINATE WITH OWNER FOR MANUFACTURER AND MODEL. PROVIDE BLOCKING ALL MONITOR LOCATIONS.
47	CUSTOM BUILT IN WARDROBE UNIT BY OWNER. LAMINATE FINISH ON BUNKROOM SIDE, WHITE MELAMINE INTERIOR. SEE DETAILS & FINISH SCHEDULE.
48	CUSTOM MURPHY BED & CABINET BY OWNER. GC TO PROVIDE AND COORDINATE BLOCKING IN WALL AS REQD.
49	FURNITURE BY OWNER.
54	SOLID SURFACE WINDOW SILLS. SEE FINISH PLAN SCHEDULE.

FLOOR PLAN GENERAL NOTES

1. REFERENCE GENERAL NOTES FOR ADDITIONAL APPLICABLE INFORMATION.

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3. ALL DIMENSIONS ARE TO THE FINISH FACE OF NEW PARTITIONS AND TO FINISH FACE OF EXISTING INTERIOR PARTITIONS AND PERIMETER WALLS TO REMAIN UNLESS NOTED OTHERWISE.

4. INSTALL REDUCER STRIPS BETWEEN DIFFERENT FLOOR FINISH LEVELS AND FINISHES AS REQUIRED.

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Roy A. Manson

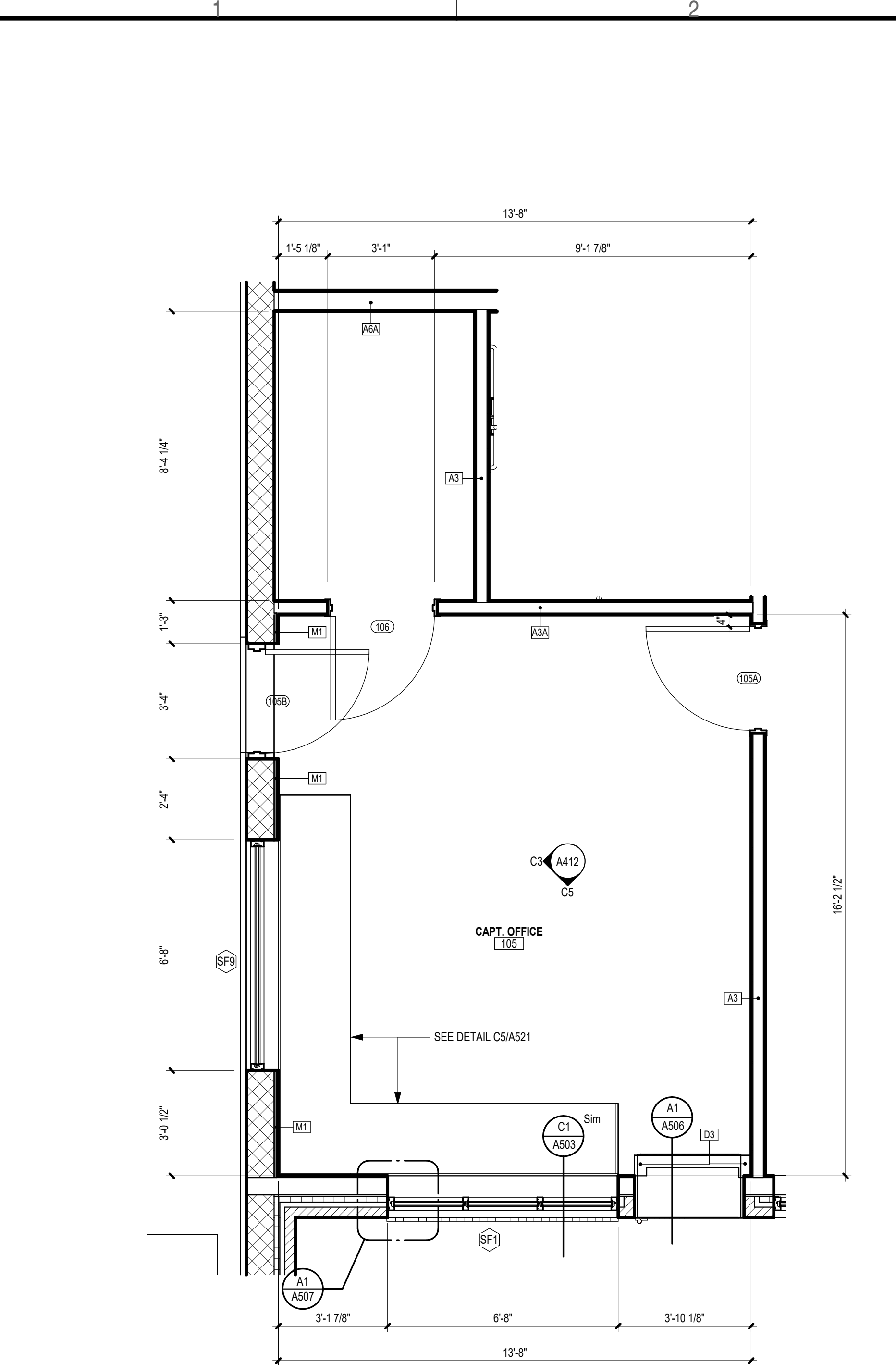
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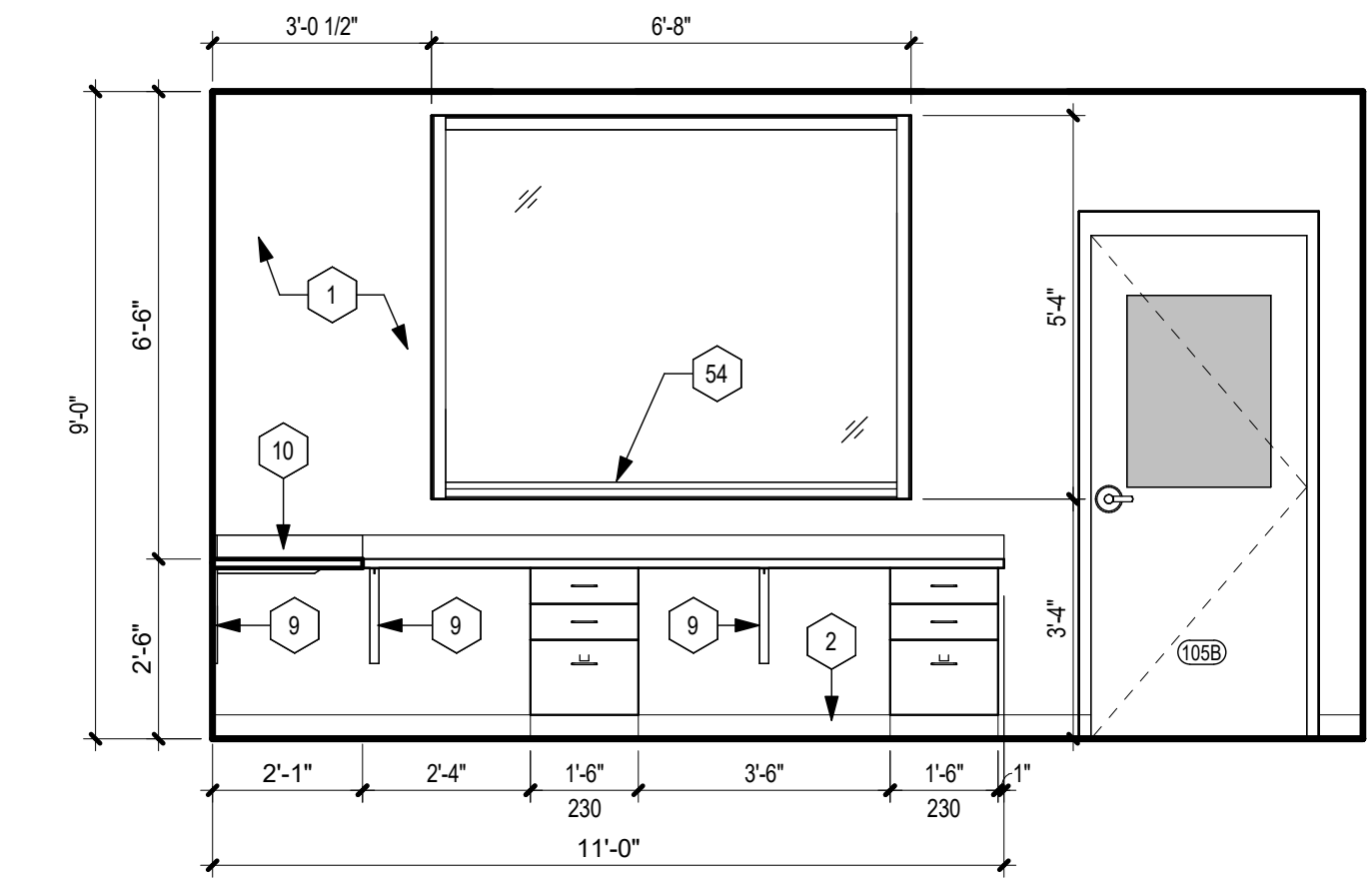
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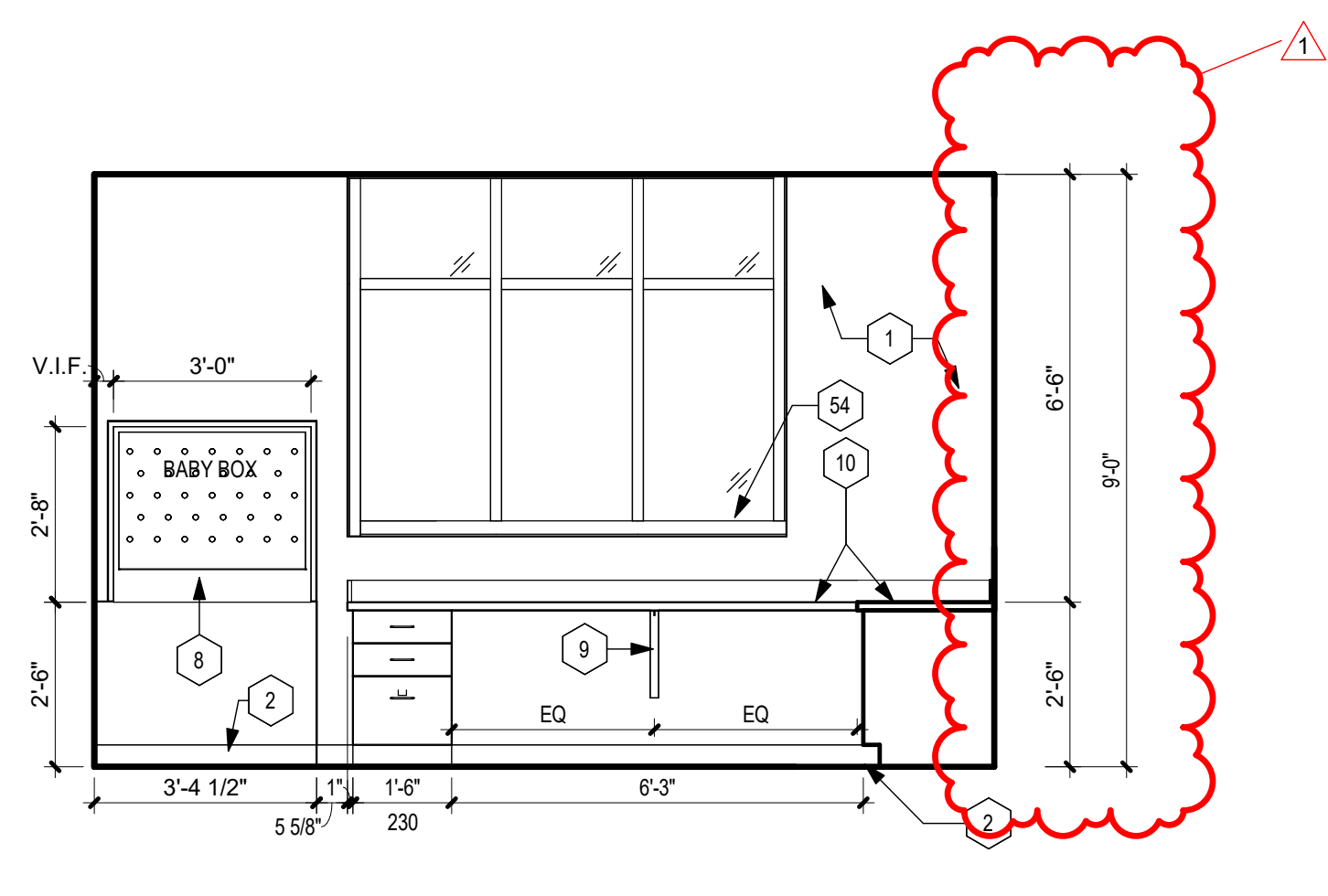
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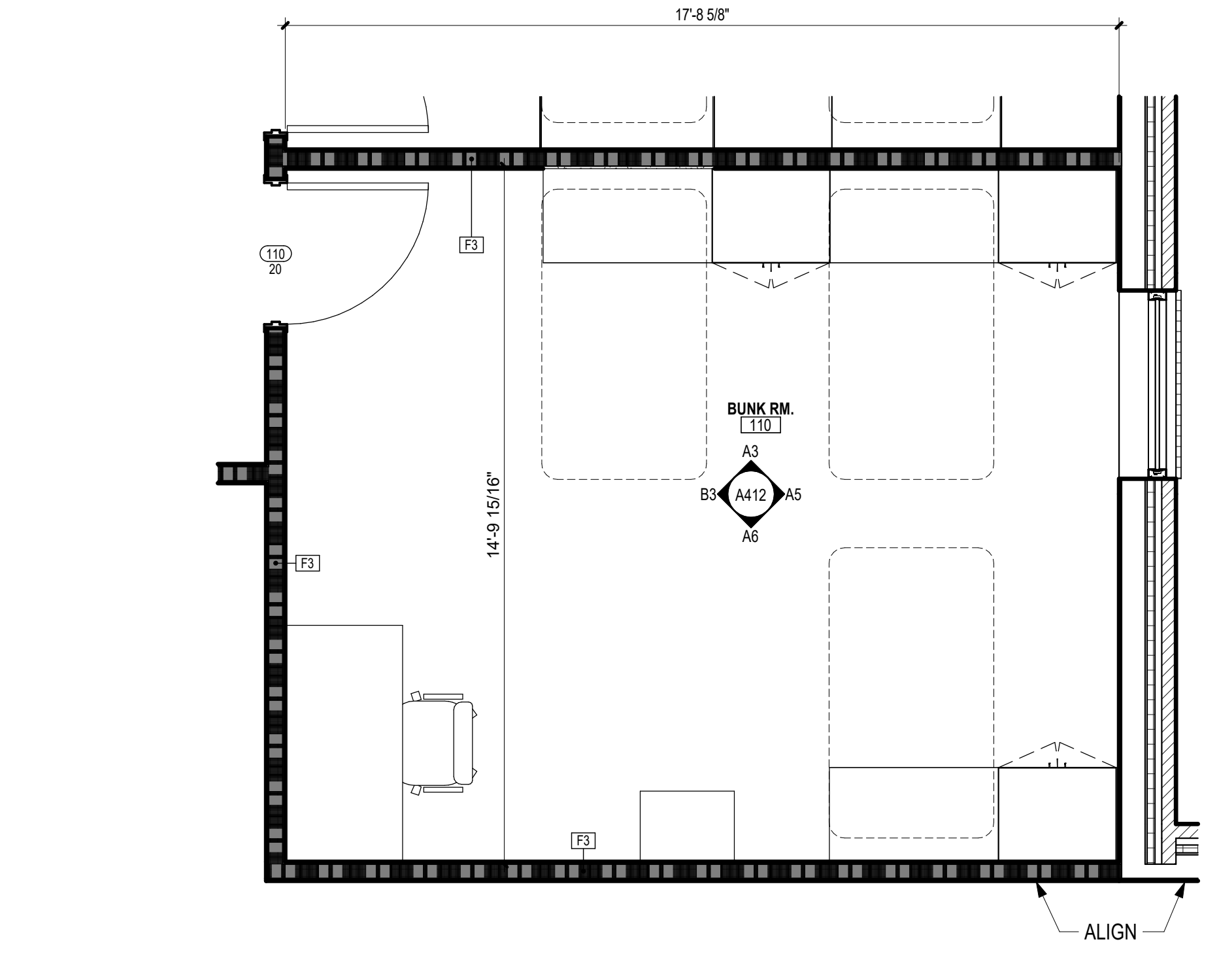
C1 ENLG. CAPT. OFFICE 105
3/8" = 1'-0"



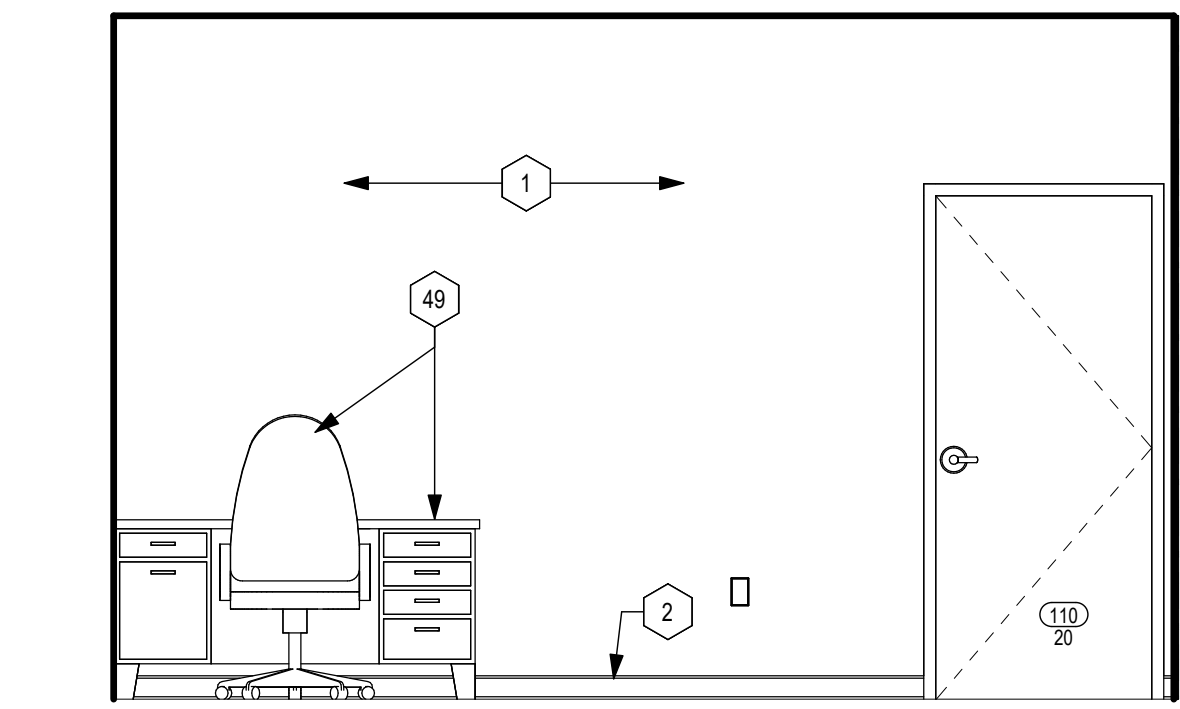
C3 CAPT. OFFICE
3/8" = 1'-0"



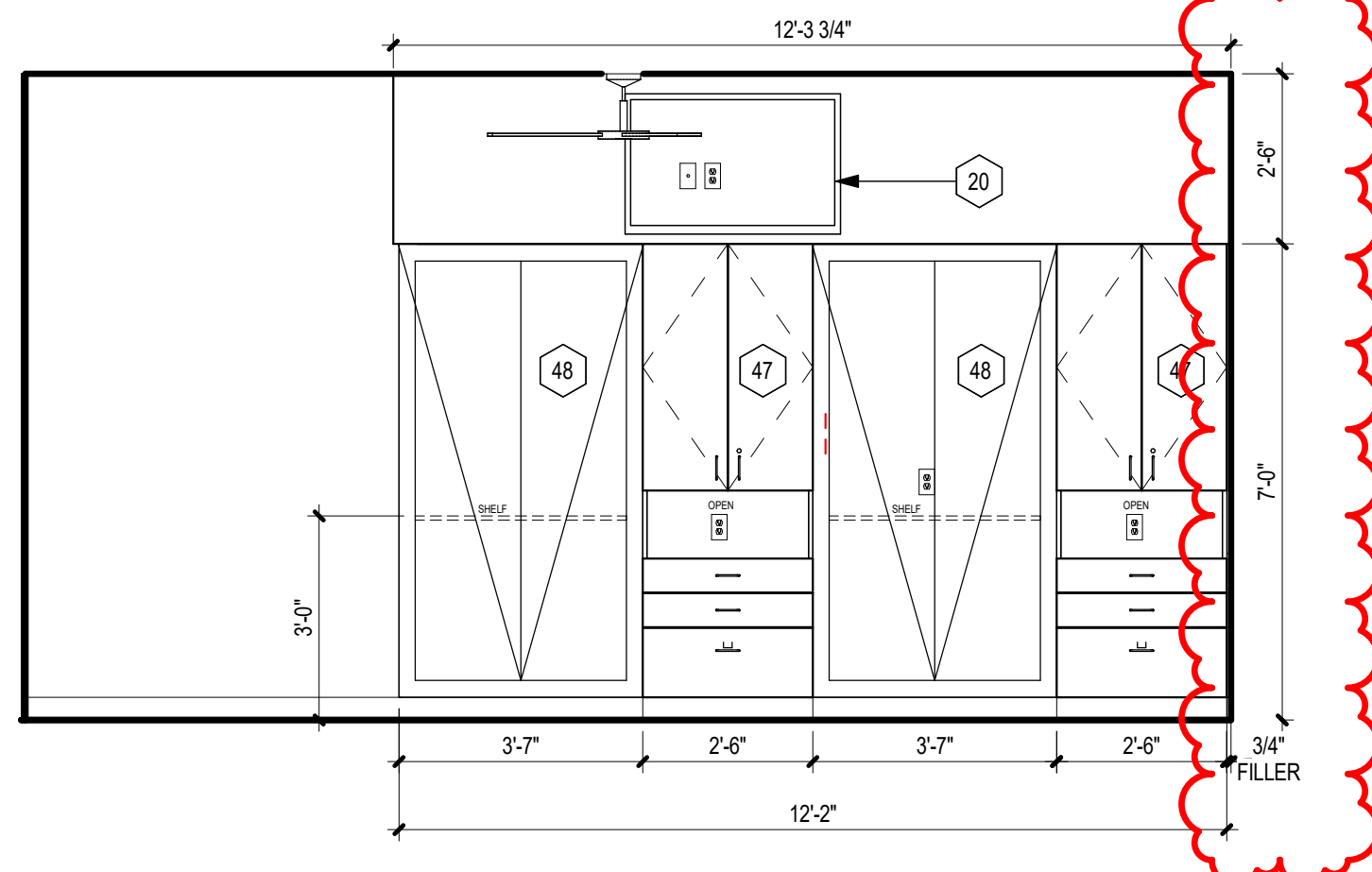
C5 CAPT. OFFICE WINDOW SIDE
3/8" = 1'-0"



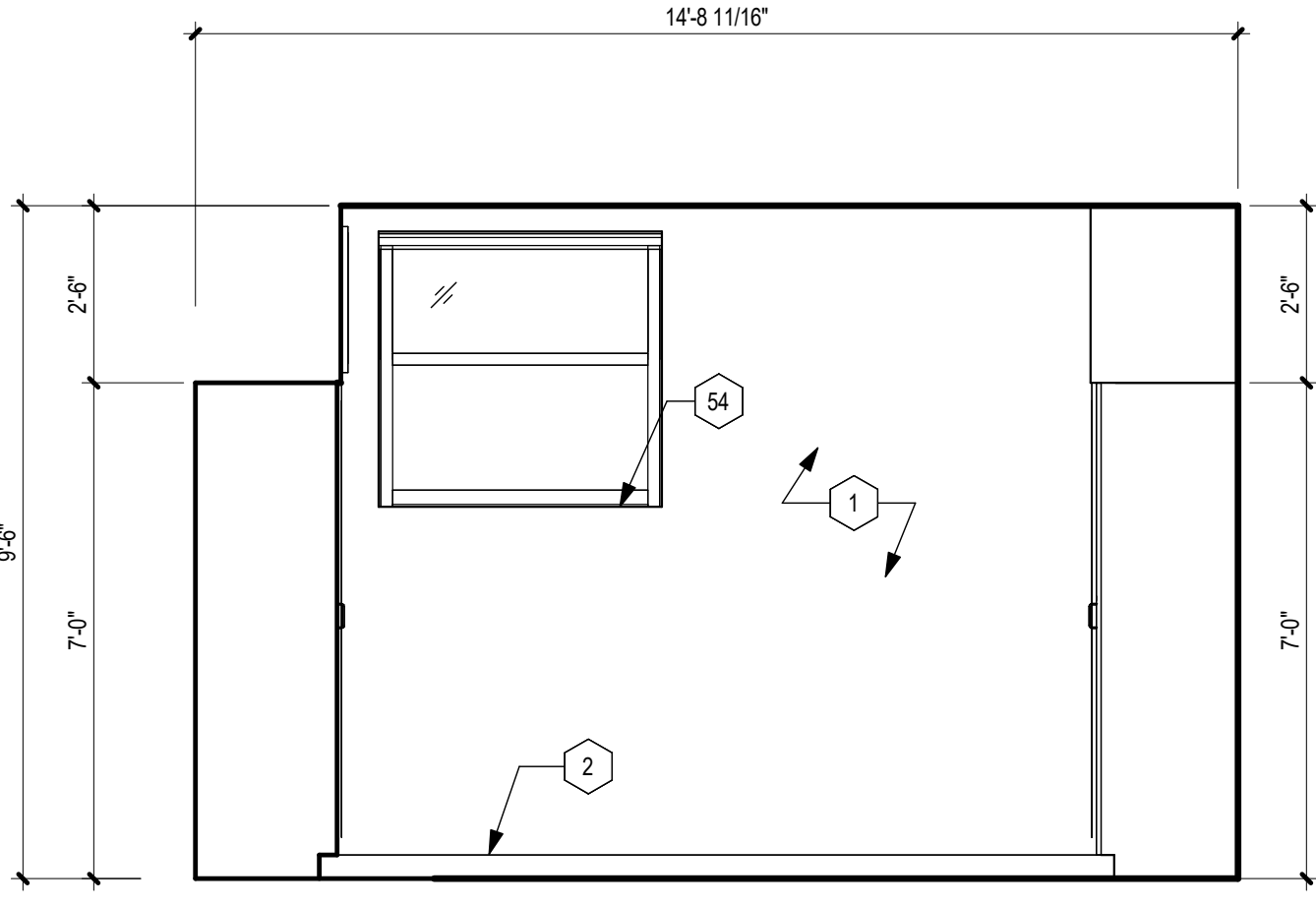
A1 ENLARGED BUNK ROOMS - TYPICAL
3/8" = 1'-0"



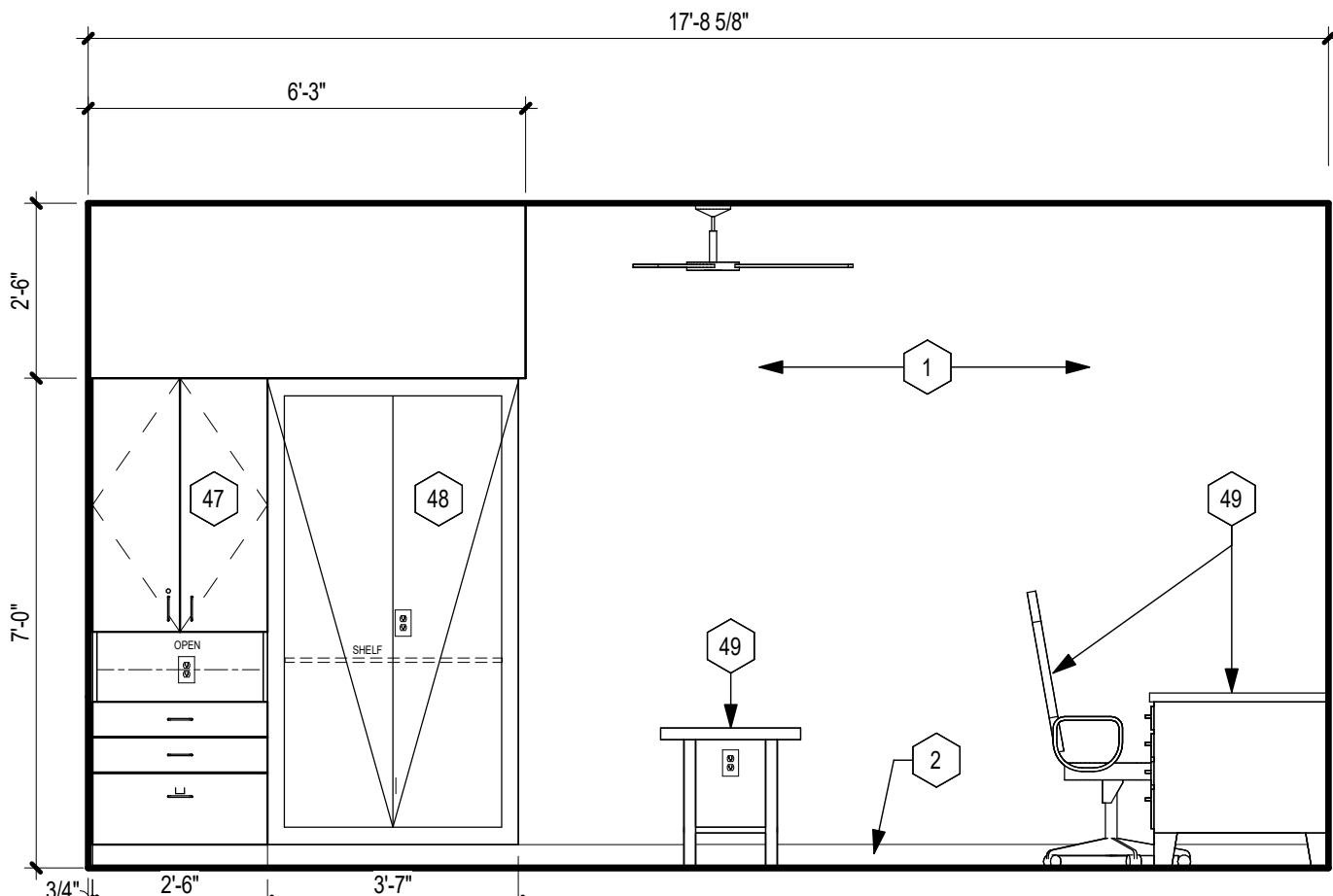
B3 TYPICAL BUNK ROOM CASEWORK
3/8" = 1'-0"



A3 TYPICAL BUNK ROOM CASEWORK
3/8" = 1'-0"



A5 TYPICAL BUNK ROOM CASEWORK
3/8" = 1'-0"



A6 TYPICAL BUNK ROOM CASEWORK
3/8" = 1'-0"

Proposed:

CENTRAL COUNTY FIRE & RESCUE - HOUSE #6

ST. CHARLES, MO 63303

No.

1

Date

7/7/2026

Address

01

Revision

Project No.

24057

Sheet No.

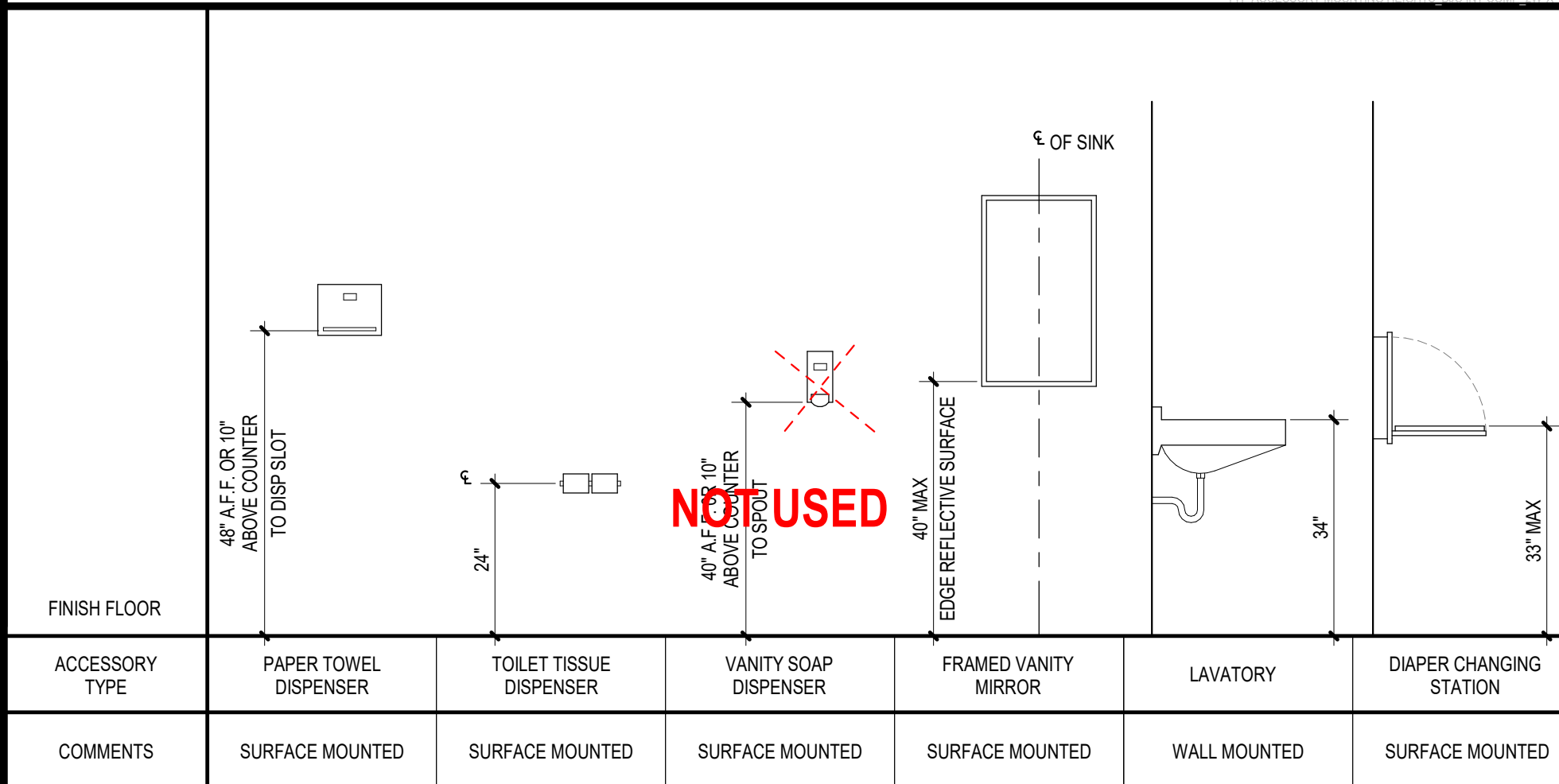
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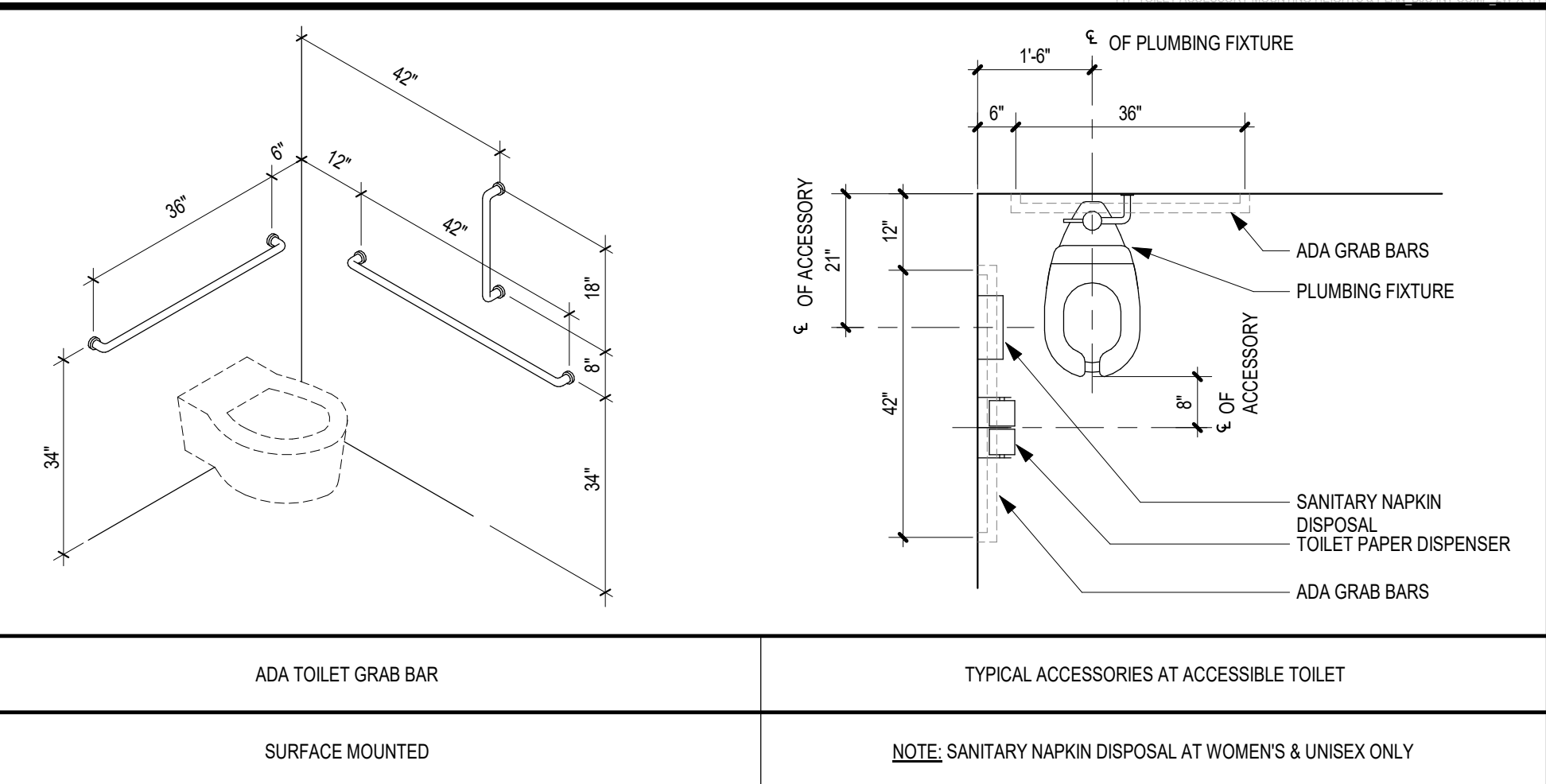
2026/06/08

ENLARGED FLOOR PLAN

TYPICAL ACCESSORY MOUNTING HEIGHTS



TYPICAL TOILET ACCESSORY MOUNTING HEIGHTS & PLAN



TOILET ACCESSORIES REMARKS

1. SEE SPECIFICATIONS AND FINISH SCHEDULE FOR TOILET PARTITIONS AND/OR URINAL SCREENS.
2. SEE PLUMBING DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.
3. RODE HOOKS TO BE INSTALLED ON ALL TOILET PARTITION DOORS @+66\"/>
4. G.C. TO PROVIDE BLOCKING AT ALL TOILET PARTITIONS, URINAL SCREENS, GRAB BARS AND ACCESSORIES WHICH ARE WALL MOUNTED.

Toilet Accessory Schedule

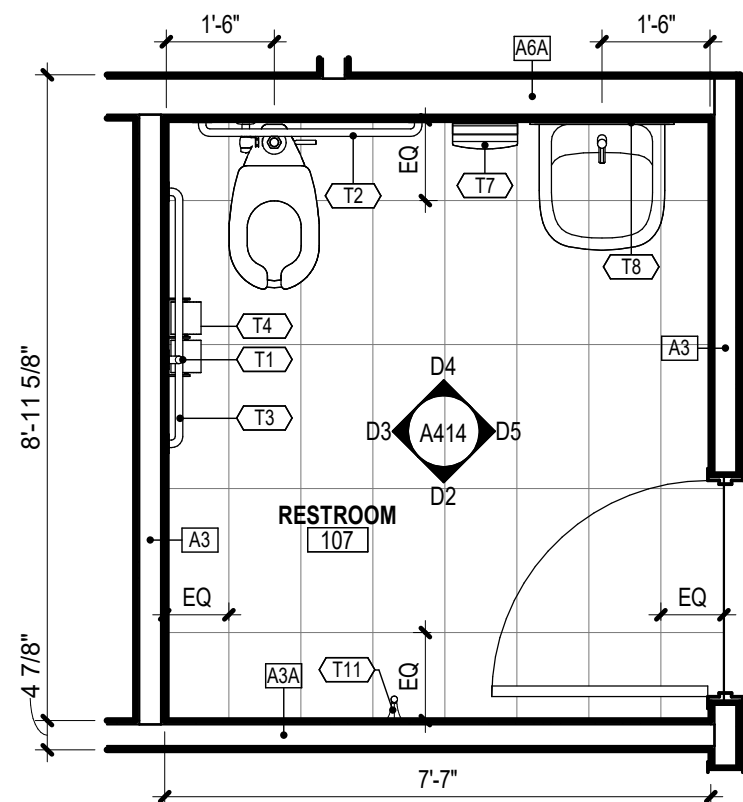
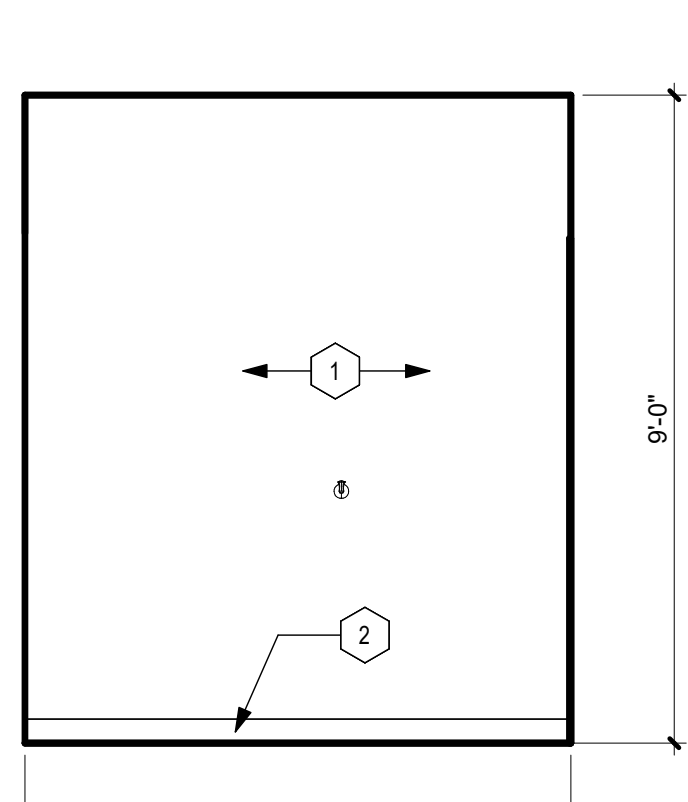
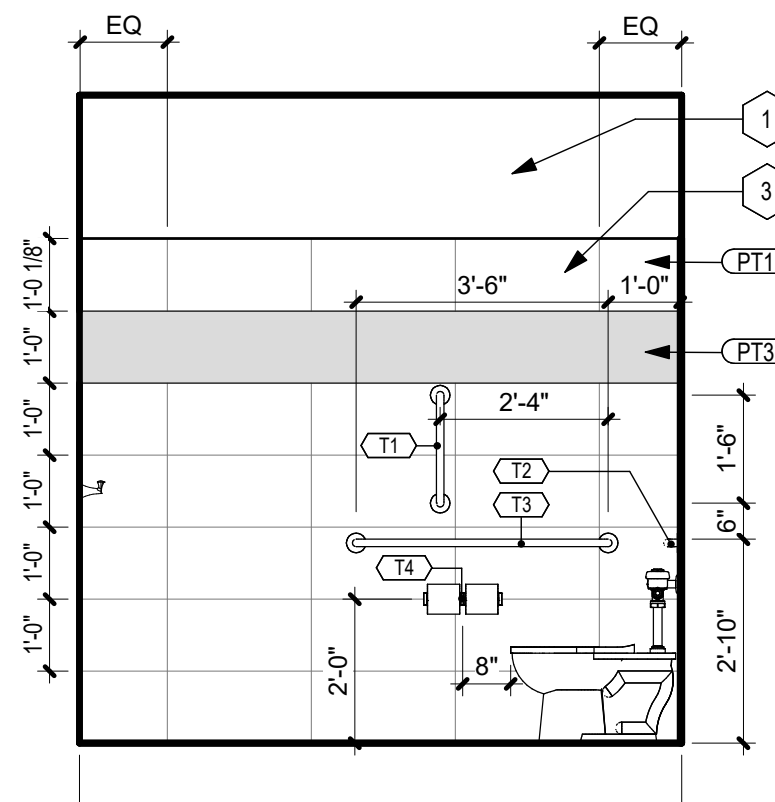
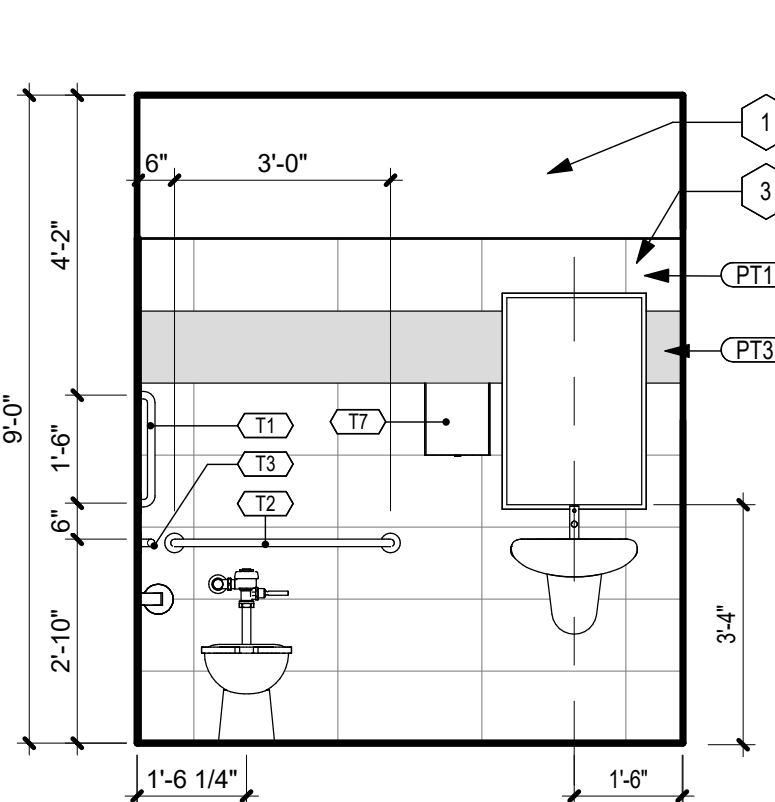
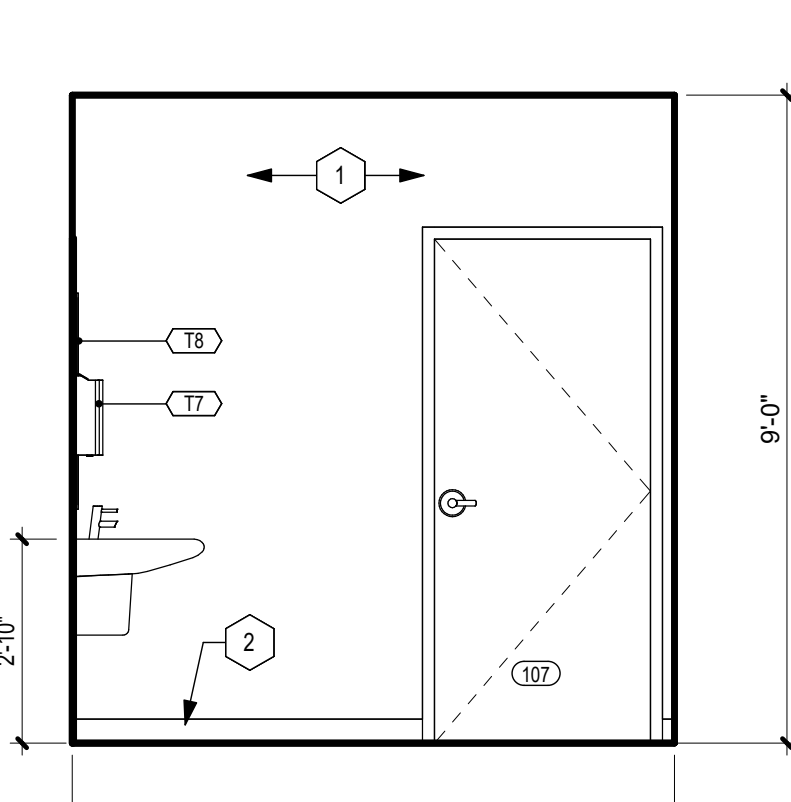
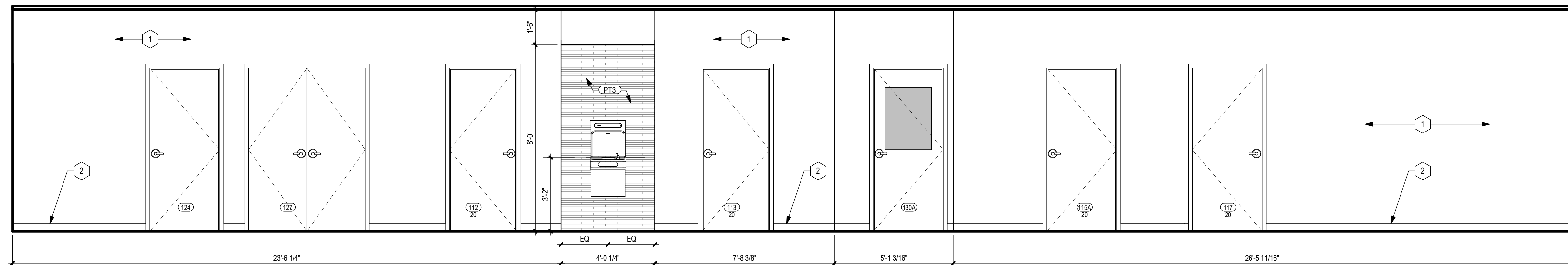
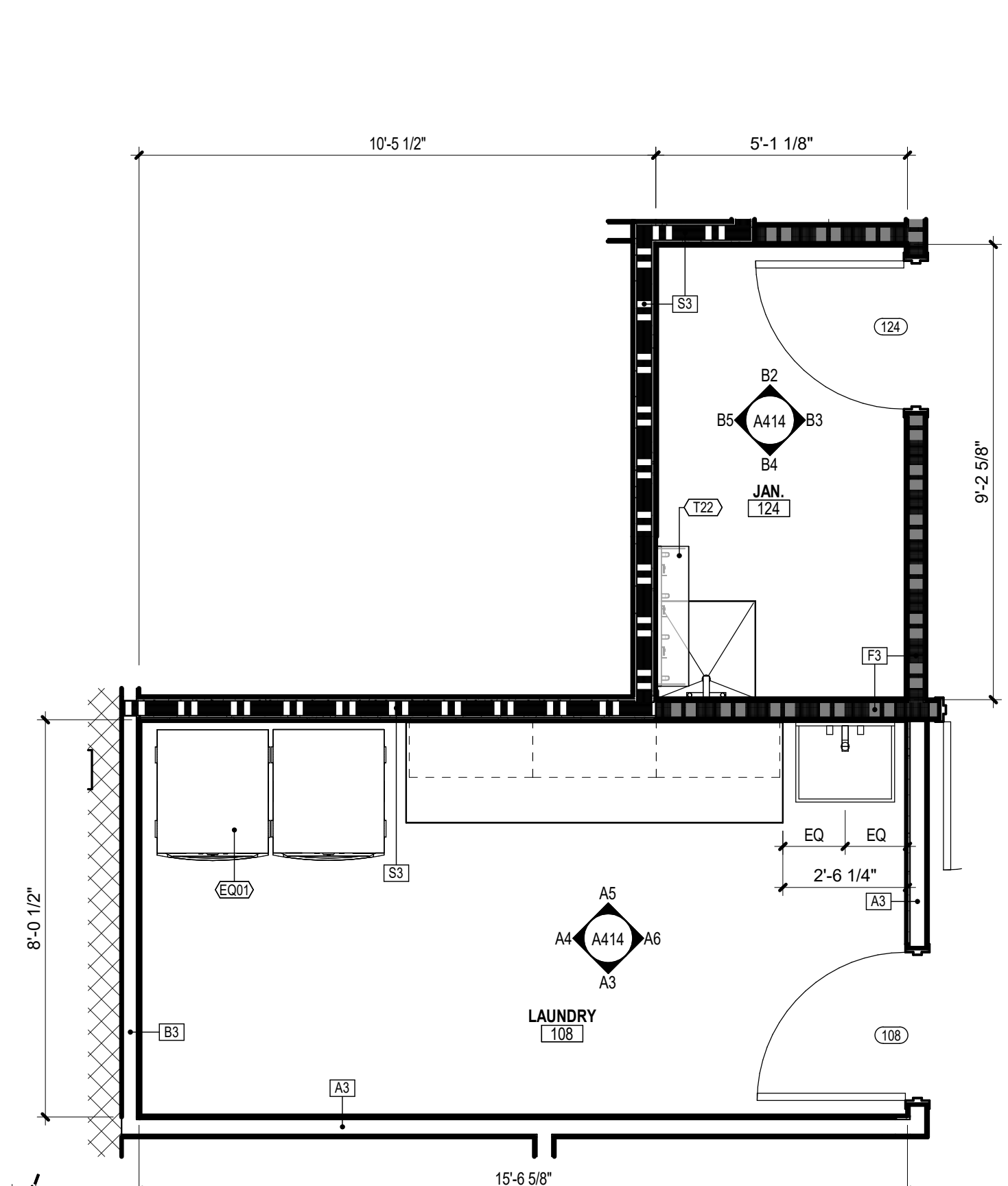
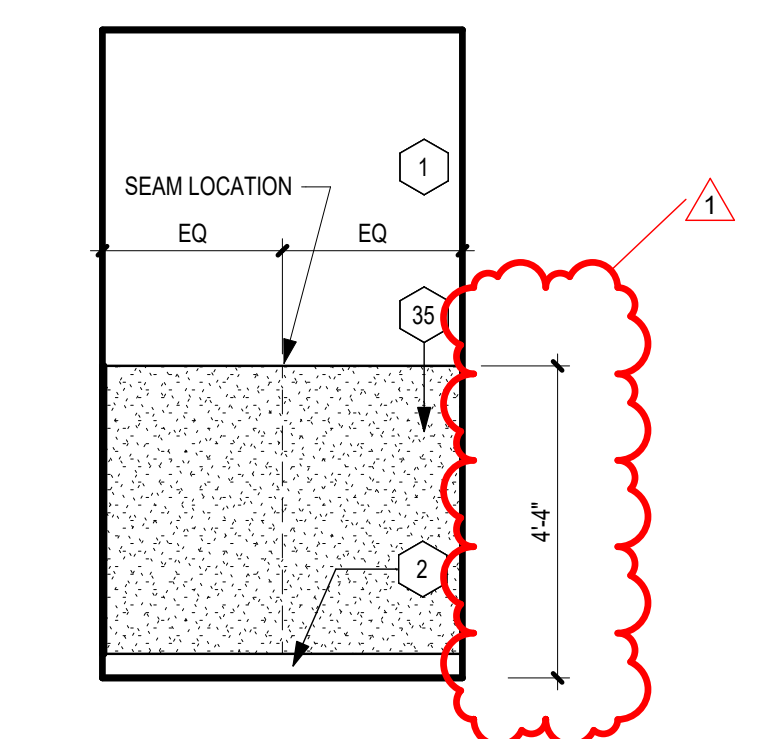
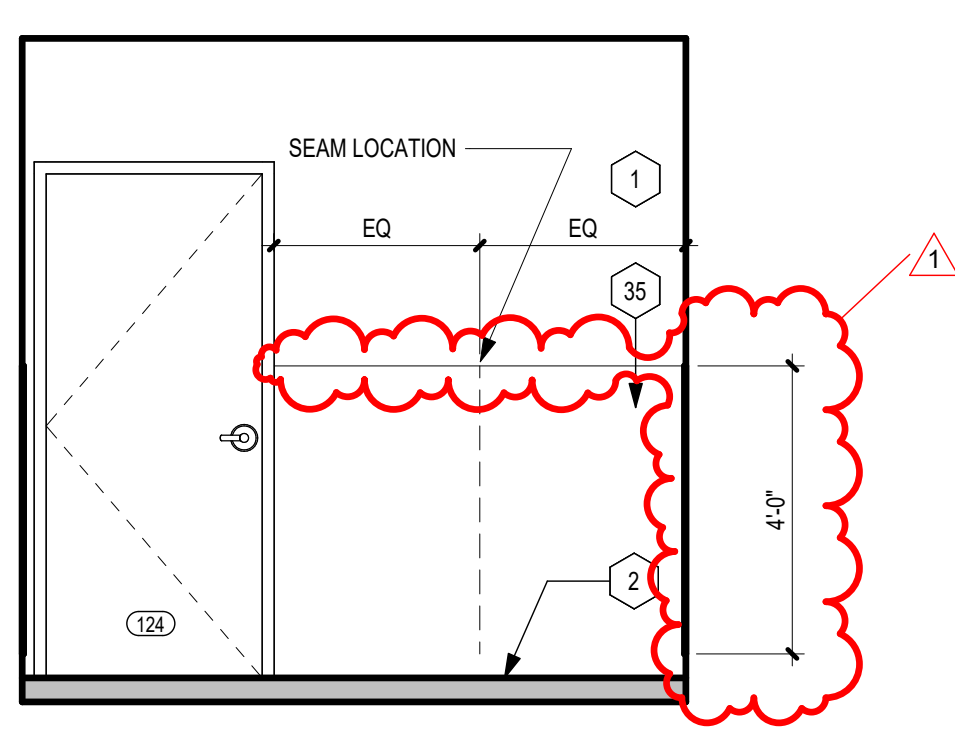
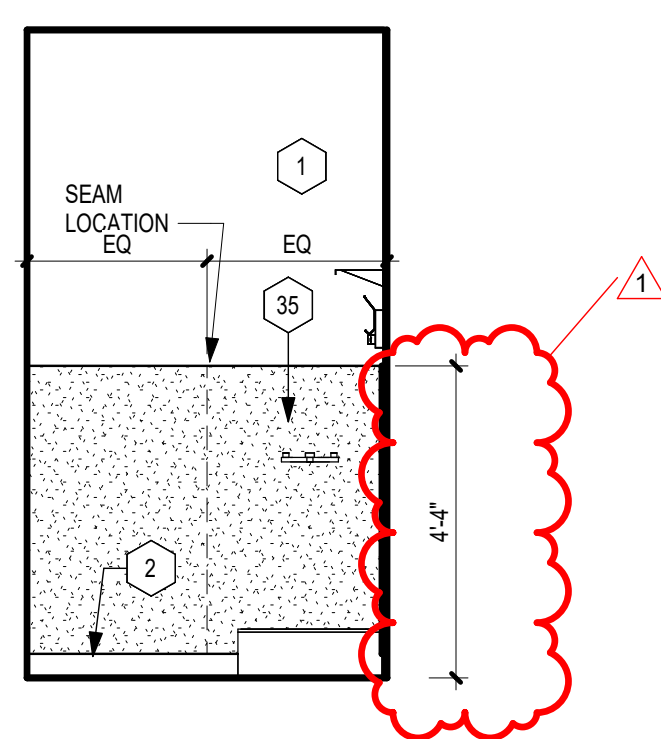
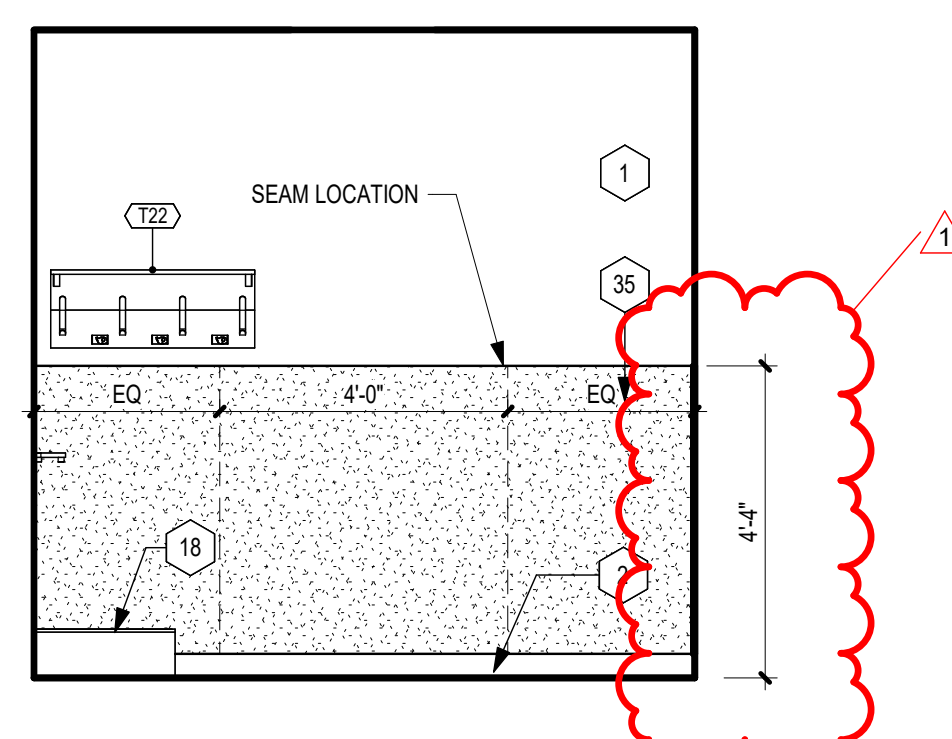
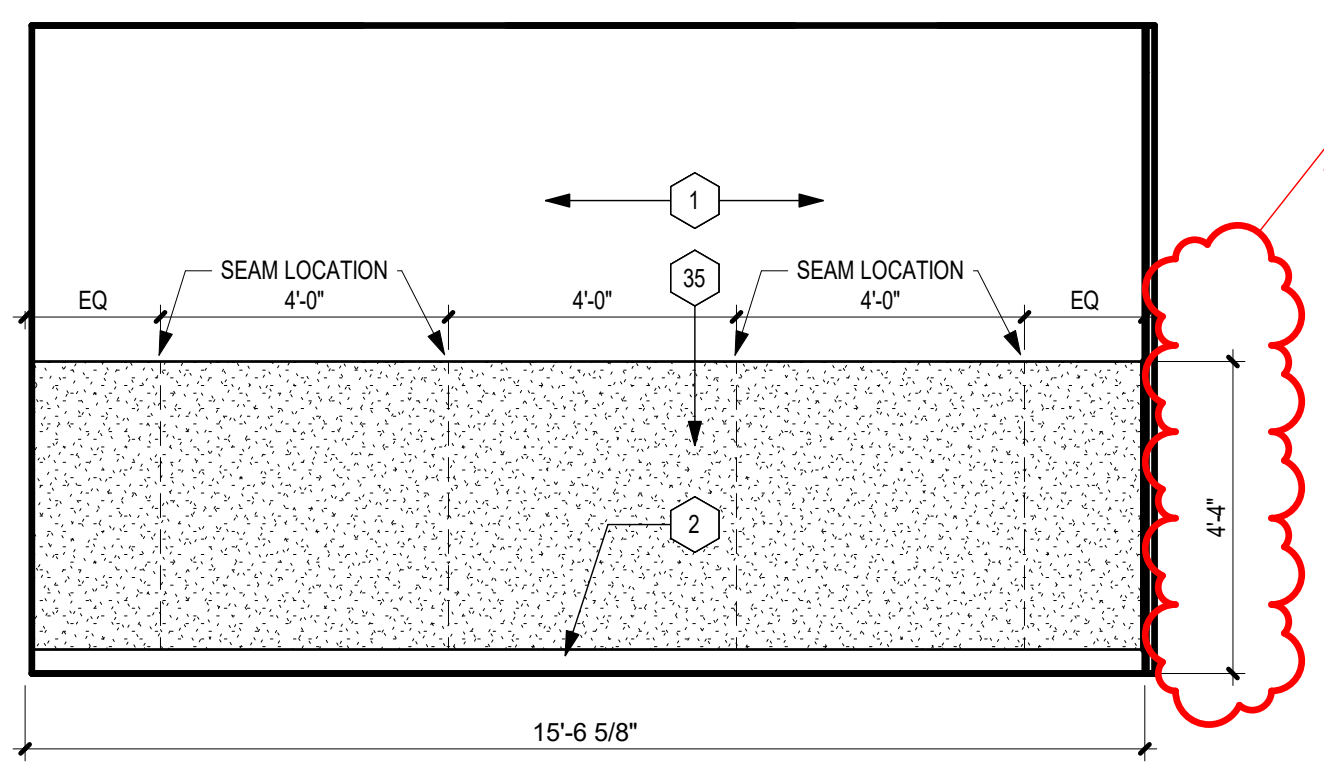
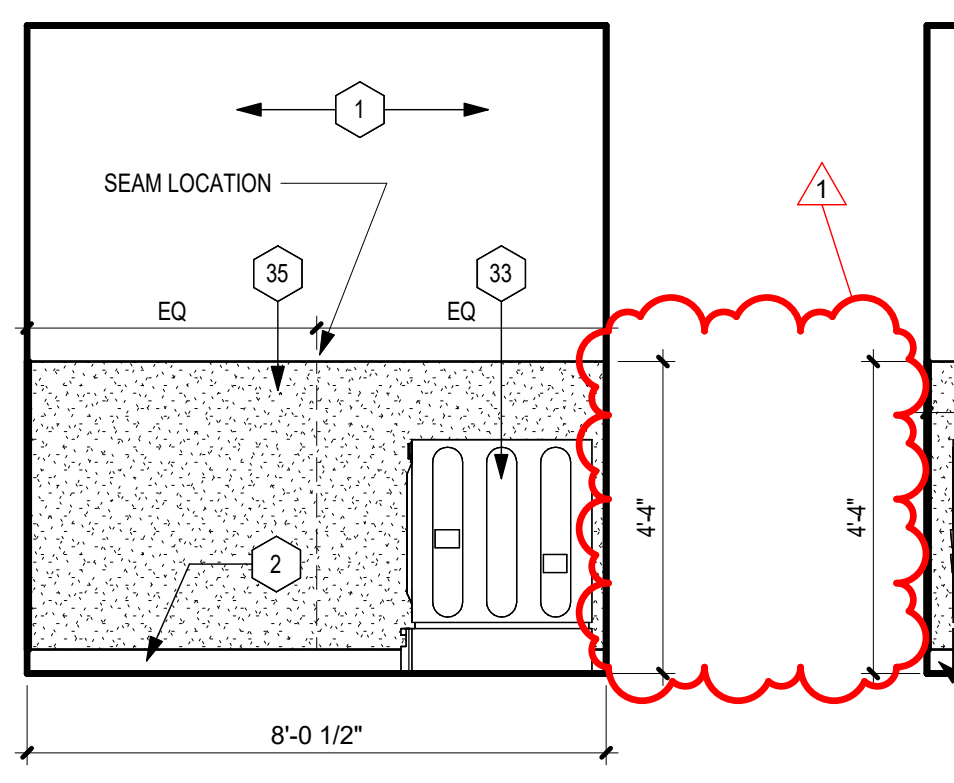
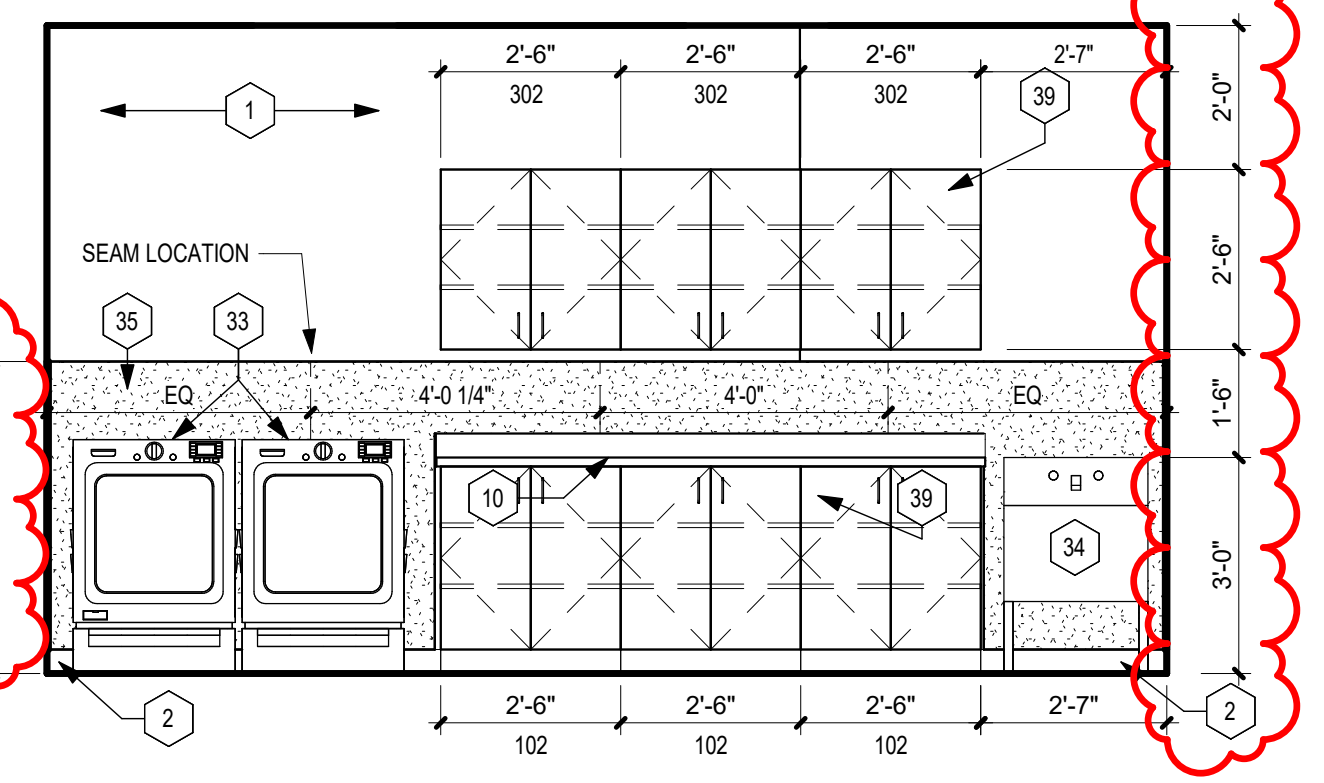
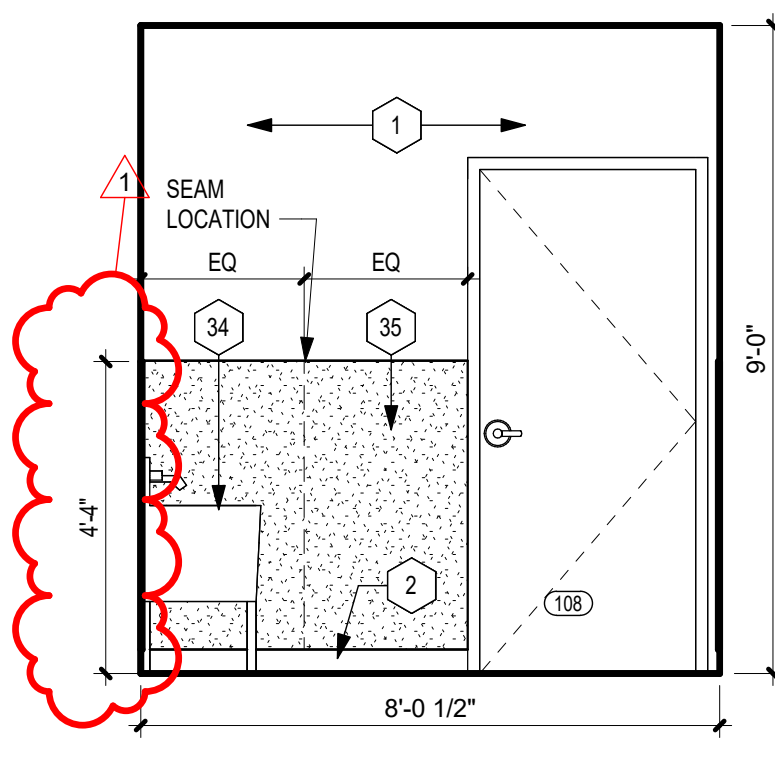
EQPT TYPE MARK	Description	Manufacturer	Model	MATERIAL	ACCESSORY FINISH	Comments
T1	18\"/>	BOBRICK	B-560X18	STAINLESS STEEL	SATIN	
T2	36\"/>	BOBRICK	B-560X36	STAINLESS STEEL	SATIN	
T3	42\"/>	BOBRICK	B-560X42	STAINLESS STEEL	SATIN	
T4	DOUBLE ROLL TOILET PAPER DISP.	BOBRICK	978867	STAINLESS STEEL	BRIGHT POLISHED	
T7	Paper Towel Dispenser	BOBRICK	B-4262	STAINLESS STEEL	SATIN	
T8	<varies>	<varies>	<varies>	<varies>	<varies>	
T11	Rolse Hook	Kohler Co.	K-35033-CP	METAL	POLISHED CHROME	
T22	Utility Shelf with Rag Hooks and Broom Holders	BOBRICK	B-239	STAINLESS STEEL	SATIN	

FLOOR PLAN GENERAL NOTES

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2. THE GENERAL CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES THAT MAY AFFECT THE WORK PRIOR TO COMMENCING CONSTRUCTION.
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KEYED NOTES INT. ELEV.

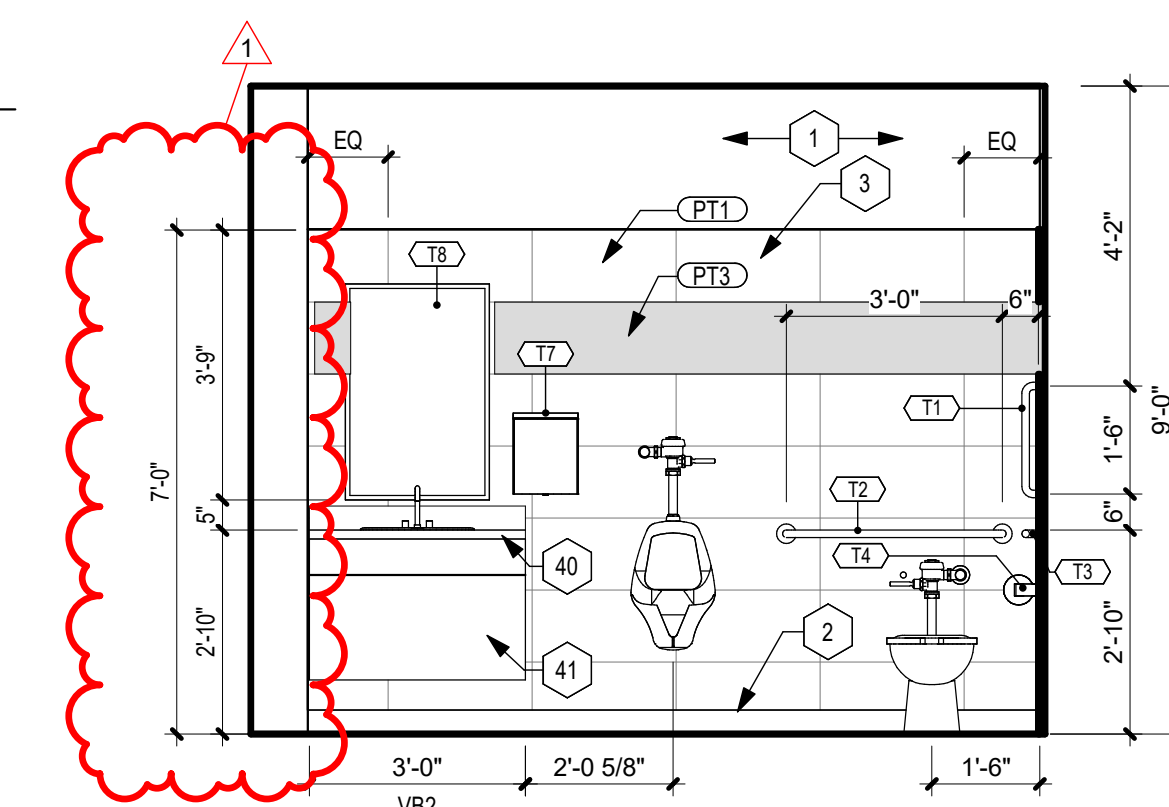
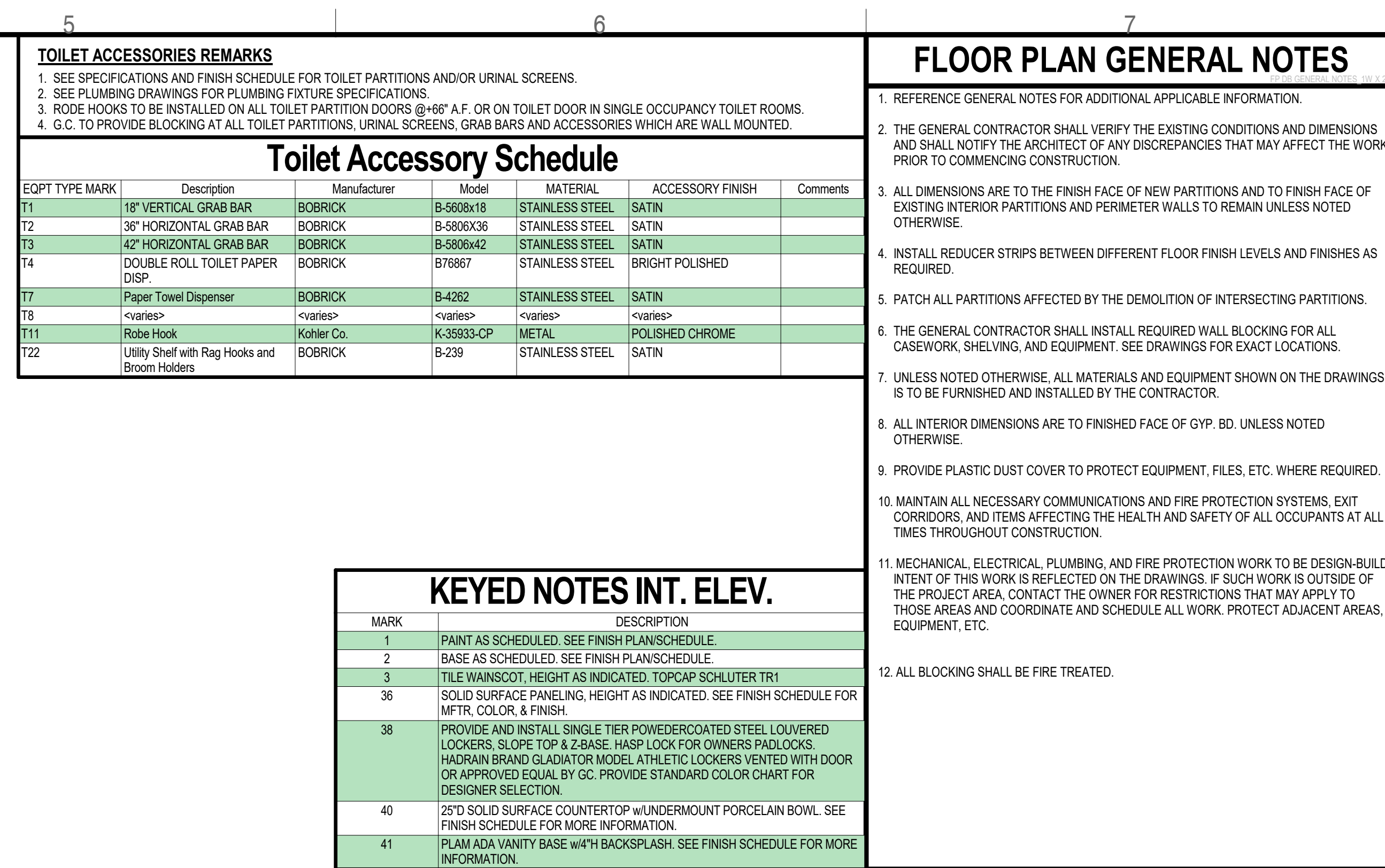
MARK	DESCRIPTION
1	PAINT AS SCHEDULED. SEE FINISH PLANSCHEDULE.
2	BASE AS SCHEDULED. SEE FINISH PLANSCHEDULE.
3	TILE WAINSCOT. HEIGHT AS INDICATED. TOPCAP SCHLUTER TR1
10	25\"/>
18	JANITOR MOP SINK
33	WASHER/ DRYER. COORDINATE ON MANUFACTURER AND MODEL WITH OWNER
34	SERVICE SINK
35	FRP PANELING. SEE FINISH SCHEDULE FOR COLOR AND FINISH
39	PLUM CABINETS. SEE FINISH SCHEDULE. FOR MORE INFORMATION.

D1 ENLG. PLAN RESTROOM 107
3/8\"/>D2 RESTROOM 107
3/8\"/>D3 RESTROOM 107
3/8\"/>D4 RESTROOM 107
3/8\"/>D5 RESTROOM 107
3/8\"/>C1 CORRIDOR DRINKING FOUNTAIN
3/8\"/>A1 LAUNDRY 108 & JAN 124
3/8\"/>B2 JANITOR 124
3/8\"/>B3 JANITOR 124
3/8\"/>B4 JANITOR 124
3/8\"/>B5 JANITOR 124
3/8\"/>A3 LAUNDRY 108
3/8\"/>A4 LAUNDRY 108
3/8\"/>A5 LAUNDRY 108
3/8\"/>A6 LAUNDRY 108
3/8\"/>

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CENTRAL COUNTY FIRE &
RESCUE - HOUSE #6
1151 JUNG'S STATION RD
ST. CHARLES, MO 63303No. 1
Date 7/7/2026
Address 01Project No.
24057Sheet No.
A414Date
2026/06/08

ENLARGED FLOOR PLANS

[illegible]

Technical drawing of a door assembly. The drawing shows a cross-section of a door with various components labeled with numbers and letters. The labels include: 1 (top center), 2 (bottom center), 3 (top right), 4 (top right), 5 (top right), 6 (top right), 7 (top right), 8 (top right), 9 (top right), 10 (top right), 11 (top right), 12 (top right), 13 (top right), 14 (top right), 15 (top right), 16 (top right), 17 (top right), 18 (top right), 19 (top right), 20 (top right), 21 (top right), 22 (top right), 23 (top right), 24 (top right), 25 (top right), 26 (top right), 27 (top right), 28 (top right), 29 (top right), 30 (top right), 31 (top right), 32 (top right), 33 (top right), 34 (top right), 35 (top right), 36 (top right), 37 (top right), 38 (top right), 39 (top right), 40 (top right), 41 (top right), 42 (top right), 43 (top right), 44 (top right), 45 (top right), 46 (top right), 47 (top right), 48 (top right), 49 (top right), 50 (top right), 51 (top right), 52 (top right), 53 (top right), 54 (top right), 55 (top right), 56 (top right), 57 (top right), 58 (top right), 59 (top right), 60 (top right), 61 (top right), 62 (top right), 63 (top right), 64 (top right), 65 (top right), 66 (top right), 67 (top right), 68 (top right), 69 (top right), 70 (top right), 71 (top right), 72 (top right), 73 (top right), 74 (top right), 75 (top right), 76 (top right), 77 (top right), 78 (top right), 79 (top right), 80 (top right), 81 (top right), 82 (top right), 83 (top right), 84 (top right), 85 (top right), 86 (top right), 87 (top right), 88 (top right), 89 (top right), 90 (top right), 91 (top right), 92 (top right), 93 (top right), 94 (top right), 95 (top right), 96 (top right), 97 (top right), 98 (top right), 99 (top right), 100 (top right). The drawing also includes a small inset showing a detail of the door handle and lock mechanism.

Diagram illustrating the layout of a bathroom stall. The stall dimensions are 5'-0 1/4" wide and 9'-0" deep. The layout includes a toilet (T11) and a sink (S6). A red wavy line indicates the stall door swing.

Diagram of a two-unit bathroom layout. The layout is divided into two sections by a vertical wall. The left section is 4'-0" wide and contains a toilet (38) and a sink (111). The right section is 5'-0" wide and contains a bathtub/shower (2), a toilet (36), and a sink (10). A red cloud-like shape highlights the right section, with a dimension line indicating a width of 5'-0". A red triangle is located at the bottom right corner of the diagram.

Figure 1: Typical Kitchen Cabinet Layout. This diagram shows a cross-section of a kitchen cabinet layout. It includes a sink, a countertop, and a wall-mounted cabinet. Dimensions are indicated: 7'-0" for the wall height, 9'-0" for the wall width, and 38" for the wall depth. Callouts 1, 2, 3, 40, 41, and 42 point to various components and dimensions.

A3 LOCKER RM 112
3/8" = 1'-0"

A4 LOCKER RM 112
3/8" = 1'-0"

A5 LOCKER RM 112
3/8" = 1'-0"

LOCKER RM 112
3/8" = 1'-0"

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Proposed: CENTRAL COUNTY FIRE & RESCUE - HOUSE #6

151 I I N G S S T A T I O N R D
ST CHARLES MO 63303

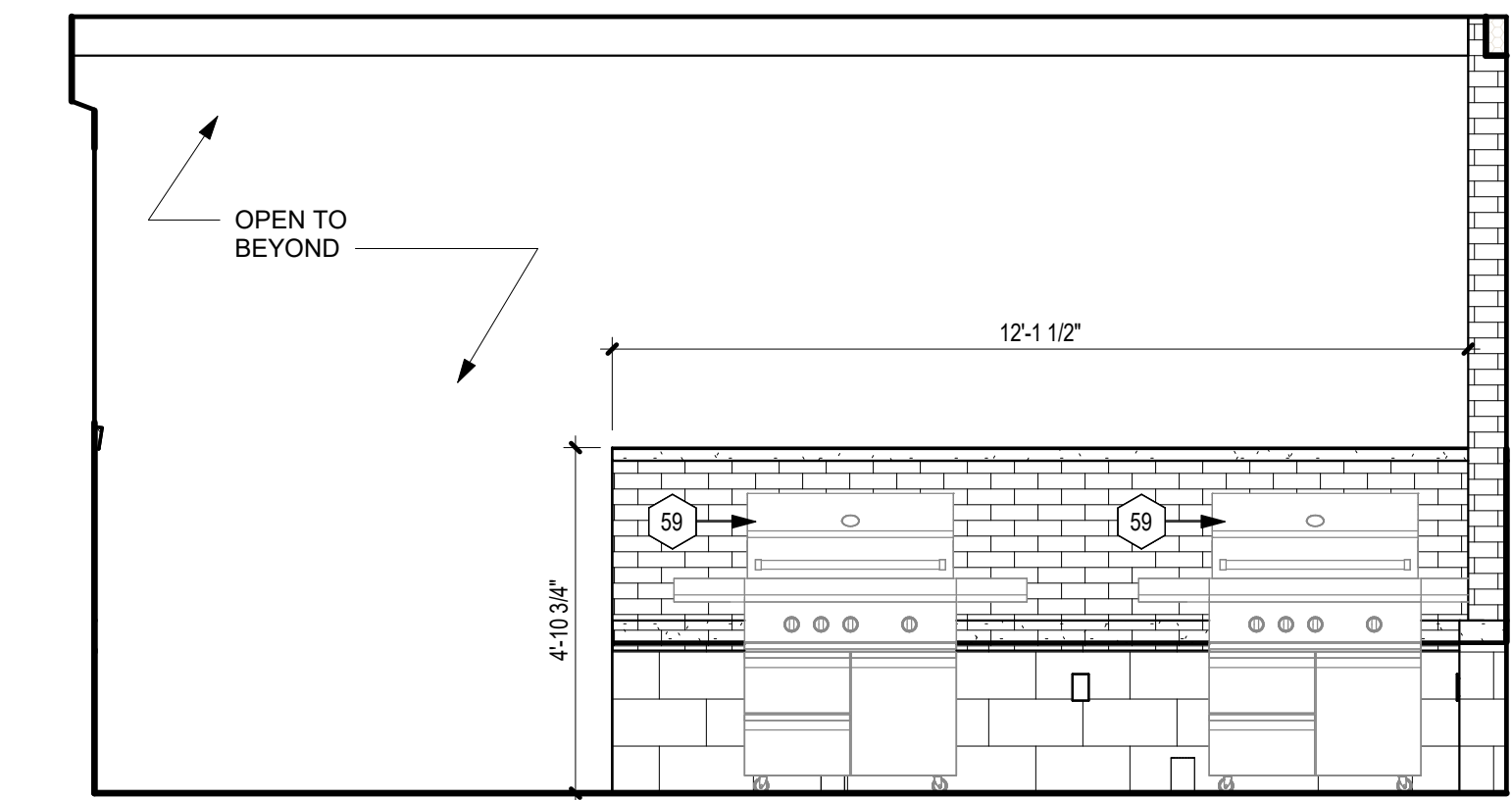
ENLARGED FLOOR PLANS

Project No.
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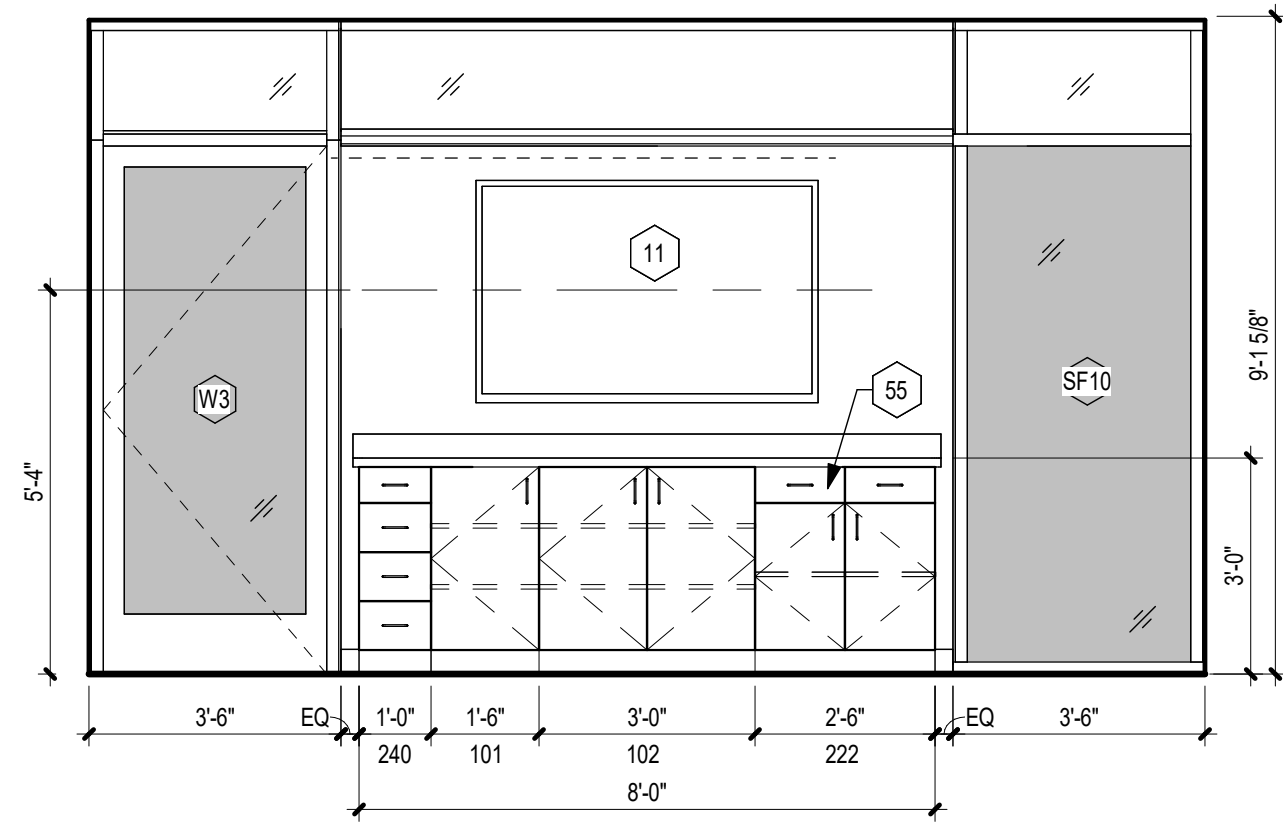
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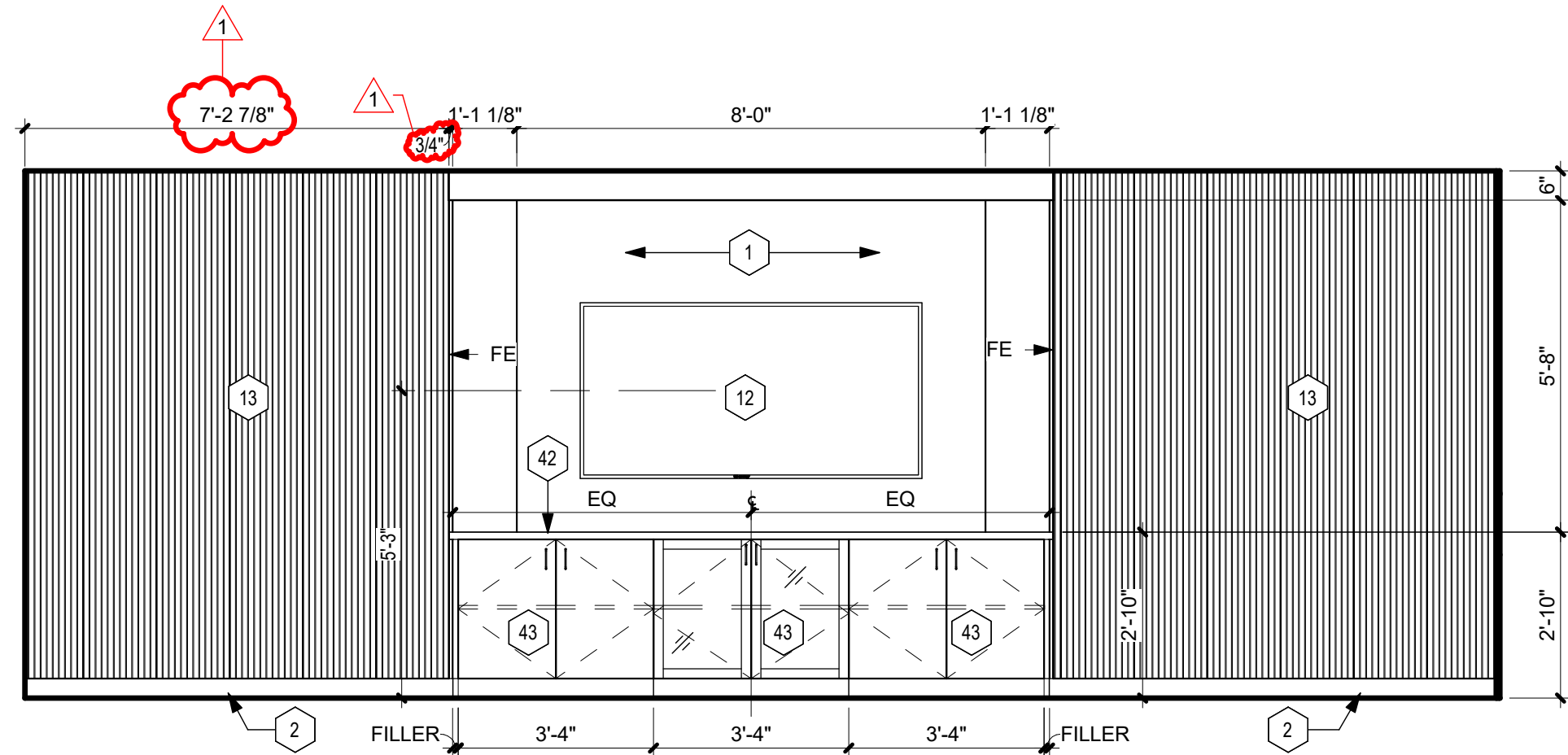
KEYED NOTES INT. ELEV.	
MARK	DESCRIPTION
1	PAIN AS SCHEDULED. SEE FINISH PLANSCHEDULE.
2	BASE AS SCHEDULED. SEE FINISH PLANSCHEDULE.
11	65" FLAT PANEL LED TV BY OWNER. PROVIDE BLOCKING ALL MONITOR LOCATIONS. TYP.
12	70" FLAT PANEL LED TV. COORDINATE WITH OWNER ON MANUFACTURER AND MODEL. PROVIDE BLOCKING ALL MONITOR LOCATIONS.
13	WOOD SLAT ACoustICAL PANELING. SEE FINISH SCHEDULE FOR COLOR, TYPE AND FINISH. EXPOSED EDGE TO HAVE WOOD FACTORY FINISH EDGE EXPOSED.
42	QUARTZ COUNTERTOP. SEE FINISH SCHEDULE FOR MORE INFORMATION.
43	CUSTOM CABINETS WITH METALLIC FINISH. CENTER CABINET TO HAVE GLASS DOOR INSERTS SEE FINISH SCHEDULE FOR MFR, COLOR, & FINISH.
52	ALUMINUM SHIP LADDER WILANDING. COORD. LOCATION & HT. WITH OPENING IN WALL FOR DOAS IN ATTIC.
53	MILLWORK CHARGING STATION. PLAM BASE CABINETS & SHELVES.
55	STAINLESS STEEL BASE CABINETS. EXTERIOR GRADE WITH STAINLESS STEEL COUNTERTOP. SEE FINISH SCHEDULE FOR MORE INFORMATION.
59	GRILL BY OWNER. COORDINATE GAS LINE & ELECTRICAL DUPLEX AS REQUIRED. GC TO COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.



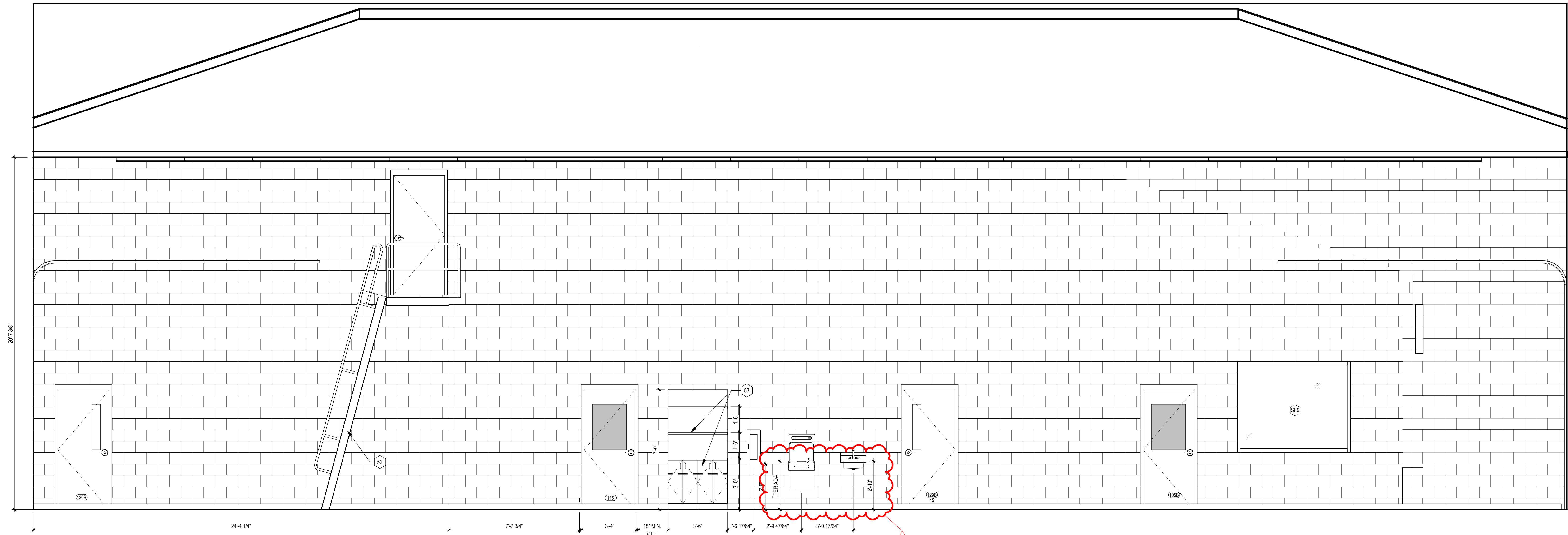
D1 COVERED PATIO
3/8" = 1'-0"



D3 COVERED PATIO
3/8" = 1'-0"

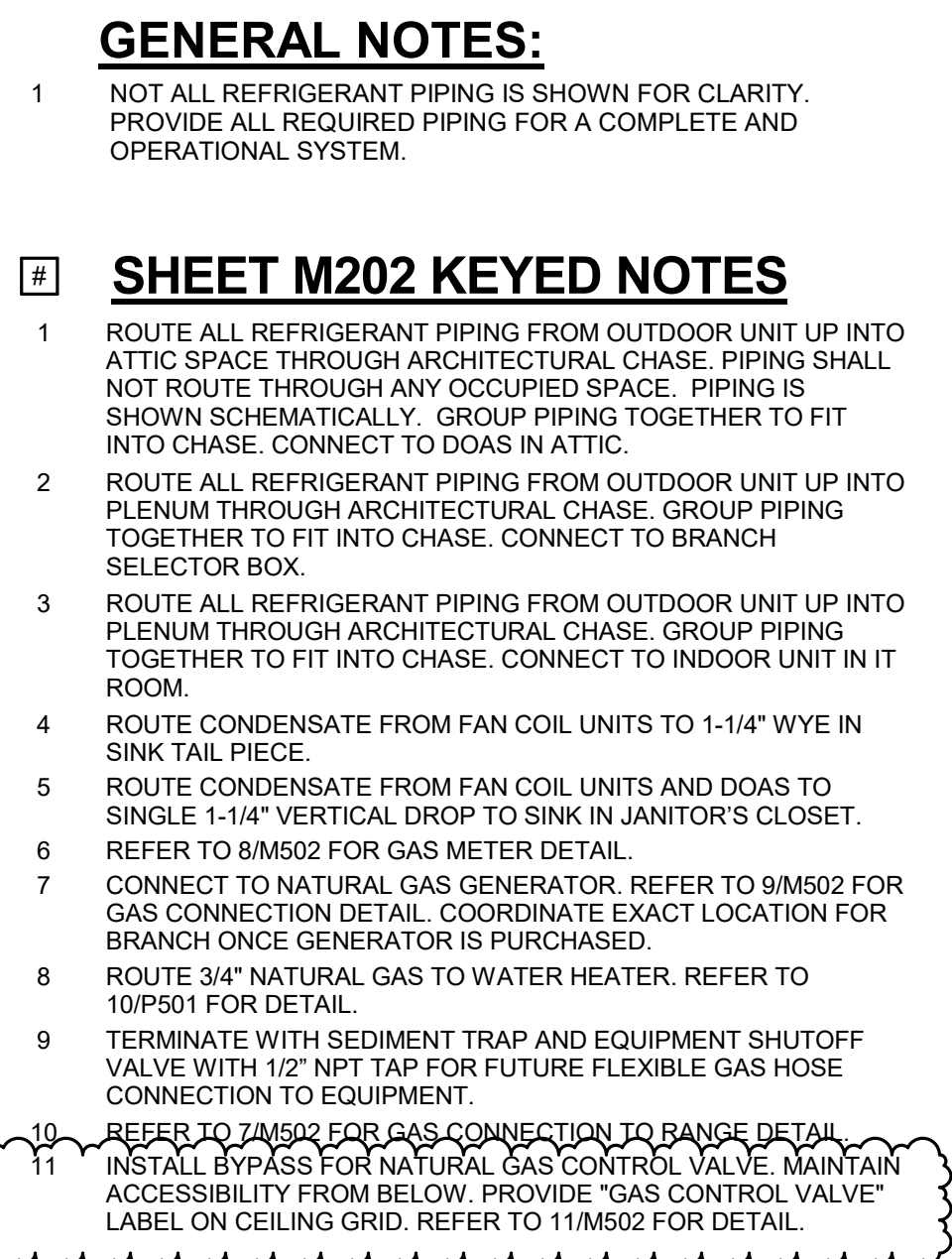


D5 DAY ROOM CASEWORK ELEVATION
3/8" = 1'-0"



A1 APPARATUS BAYS 119 WEST
3/8" = 1'-0"

No.	Date	Revision
1	7/7/2026	Addressed 01



1/8" = 1'-0"



0 4'-0" 8'-0" 16'-0"

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

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Sheet No.
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No.	Date	Revision
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Proneused:

CGF & B HOUSE 06

MECHANICAL PIPING PLAN

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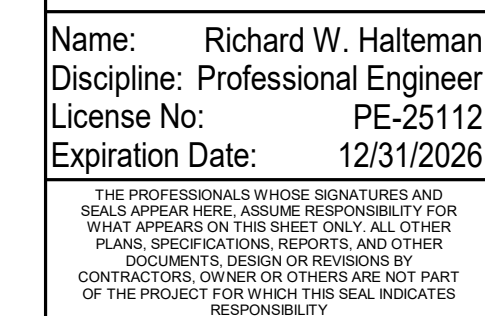
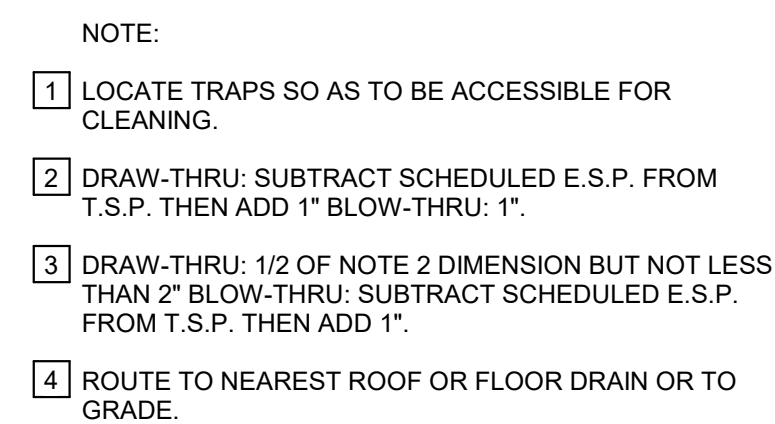
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LIGHT FIXTURES:

	A = FIXTURE TYPE b = SWITCH LEG EL = PANEL 1 = CIRCUIT NUMBER
	2x4 LIGHT FIXTURE
	2x4 LIGHT - EMERGENCY
	2x4 LIGHT - EMERGENCY UNSWITCHED NIGHTLIGHT
	2x2 LIGHT FIXTURE
	2x2 LIGHT - EMERGENCY
	2x2 LIGHT - EMERGENCY UNSWITCHED NIGHTLIGHT
	CIRCLE DOWNLIGHT FIXTURE
	CIRCLE DOWNLIGHT - EMERGENCY
	CIRCLE DOWNLIGHT - EMERGENCY UNSWITCHED NIGHTLIGHT
	CIRCLE DOWNLIGHT - WALL WASH FIXTURE
	SQUARE DOWNLIGHT FIXTURE
	SQUARE DOWNLIGHT - EMERGENCY
	SQUARE DOWNLIGHT - EMERGENCY UNSWITCHED NIGHTLIGHT
	SQUARE DOWNLIGHT - WALL WASH FIXTURE
	INDUSTRIAL STRIP LIGHT FIXTURE
	EXTERIOR FLOOD LIGHT
	POLE LIGHT FIXTURE
	BOLLARD
	BOLLARD - EMERGENCY
	EXIT SIGN - CEILING MOUNTED (WITH DIRECTIONAL ARROW) (SHADE INDICATES # OF FACES)
	EXIT SIGN - WALL MOUNTED (WITH DIRECTIONAL ARROW) (SHADE INDICATES # OF FACES)
	EMERGENCY LIGHT PACK WITH BATTERY (96" A.F.F.)
	SCONCE
	WALL PACK - EXTERIOR
	TRACK LIGHTING
	CEILING FAN

LIGHTING DEVICES:

	DAYLIGHT HARVEST SENSOR
	PHOTOCELL
	CEILING OCCUPANCY SENSOR
	VS = VACANCY SENSOR OC = OCCUPANCY SENSOR
	CEILING OCCUPANCY SENSOR MULTI DIRECTION
	TOGGLE SWITCH SINGLE POLE (48" A.F.F.) a = SWITCH LEG (LOWER CASE LETTERS)
	TOGGLE SWITCH THREE WAY
	TOGGLE SWITCH FOUR WAY
	DIMMER SWITCH
	KEY OPERATED SWITCH
	SWITCH WITH PILOT LIGHT ON WHEN SWITCH IS ON
	TIMER SWITCH
	WEATHERPROOF SINGLE POLE SWITCH
	OCCUPANCY SENSOR WALL MOUNTED WITH OFF-AUTO OVERRIDE SWITCH
	VACANCY SENSOR WALL MOUNTED
	DATA LINE SWITCH / LIGHTING CONTROL OVERRIDE SWITCH (48" A.F.F.)

DATA DEVICES:

	DATA OUTLET (18" A.F.F.) c = 6" ABOVE COUNTER BACKSPLASH 2 = NUMBER EQUALS TOTAL NUMBER OF PORTS
	DATA OUTLET IN FLOOR
	SURFACE RACEWAY DATA OUTLET 3' ON CENTER
	HDMI OUTLET (18" A.F.F.) UNO c = 6" ABOVE COUNTER BACKSPLASH 2 = NUMBER EQUALS TOTAL NUMBER OF PORTS W = MOUNT 48" A.F.F.
	HDMI OUTLET IN FLOOR
	TELEPHONE OUTLET (18" A.F.F.) c = 6" ABOVE COUNTER BACKSPLASH 2 = NUMBER EQUALS TOTAL NUMBER OF PORTS W = MOUNT 48" A.F.F.
	TELEPHONE OUTLET IN FLOOR
	TELEPHONE/DATA OUTLET (18" A.F.F.) c = 6" ABOVE COUNTER BACKSPLASH 2 = NUMBER EQUALS TOTAL NUMBER OF DATA PORTS 1 = NUMBER EQUALS TOTAL NUMBER OF PHONE PORTS
	TELEPHONE/DATA OUTLET IN FLOOR
	TELEVISION OUTLET (88" A.F.F.)
	WIRELESS ACCESS POINT

CONDUIT:

	CONDUIT EXPOSED
	CONDUIT CONCEALED IN FLOOR, BELOW SLAB OR BELOW GRADE
	CONDUIT CONCEALED IN WALL OR CEILING
	TELEPHONE CONDUIT
	TELEVISION CONDUIT
	CONDUIT DOWN
	CONDUIT UP
	CONDUIT SLEEVE INSULATED BUSHING EACH END
	WIRE IN CONDUIT LEFT TO RIGHT 1 GROUND, 1 NEUTRAL, 3 PHASE CONDUCTORS
	HOME RUN A = PANEL A 1,3 = CIRCUITS 1,3
	CABLE TRAY
	FEEDER A
	GROUND JACK
	PULL BOX
	HAND HOLD

ELECTRICAL FIXTURES:

	SIMPLE RECEPTACLE (18" A.F.F.)
	DUPLEX RECEPTACLE (18" A.F.F.)
	GFI DUPLEX RECEPTACLE (18" A.F.F.)
	QUADPLEX RECEPTACLE (18" A.F.F.)
	GFI QUADPLEX RECEPTACLE (18" A.F.F.)
	EMERGENCY RECEPTACLE (18" A.F.F.)
	COUNTERTOP RECEPTACLE (6" ABOVE COUNTER)
	TAMPER RESISTANT RECEPTACLE (18" A.F.F.)
	FLOOR RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE (18" A.F.F.)
	JUNCTION BOX
	JUNCTION BOX IN FLOOR
	SURFACE RACEWAY DUPLEX OUTLET 3' ON CENTER
	POWER POLE
	POWER SUPPLY
	POWER WHIP

SECURITY DEVICES:

	ACCESS CONTROL HEAD-END
	AREA OF RESCUE ANNUNCIATOR
	AREA OF RESCUE ASSISTANCE CALL STATION
	CAMERA
	CARD READER
	CCTV HEAD-END
	CCTV MONITOR
	DOOR CONTACT
	ELECTRIC DOOR STRIKE
	ELECTRIC DOOR HARDWARE
	GLASS BREAK DETECTOR - WALL MOUNTED
	GLASS BREAK DETECTOR - CEILING MOUNTED
	KEYPAD
	MAGNETIC LOCK
	MOTION DETECTOR - WALL MOUNTED
	MOTION DETECTOR - CEILING MOUNTED
	PROXIMITY READER ACCESS CONTROL
	PANIC BUTTON
	REFRIGERATOR ALARMS
	REQUEST TO EXIST MOTION DETECTOR
	ELECTRIC/PNEUMATIC SWITCH
	LIMIT SWITCH
	MEDICAL GAS ALARM

COMMUNICATION DEVICES:

	ANTENNA
	DOOR BELL
	INTERCOM MASTER
	INTERCOM SLAVE
	MICROPHONE OUTLET
	MICROPHONE OUTLET IN FLOOR
	PROGRAM BELL SYSTEM
	PUBLIC ADDRESS SYSTEM
	PUSH PLATE
	SOUND EQUIPMENT PANEL
	SPEAKER - CEILING MOUNTED
	SPEAKER - SURFACE MOUNTED
	SPEAKER - WALL MOUNTED
	HORN SPEAKER
	VOLUME CONTROL (48" A.F.F.)

FIRE ALARM DEVICES:

	COMBINATION HORN STROBE FIRE ALARM - WALL MOUNTED (90" A.F.F. MINIMUM 6" BELOW CEILING) 110 = CANDELA RATING
	HORN FIRE ALARM - WALL MOUNTED (90" A.F.F.)
	BELL ALARM - WALL MOUNTED (1" BELOW CEILING) CH = CHIME G = GONG
	STROBE FIRE ALARM - WALL MOUNTED (90" A.F.F. MINIMUM 6" BELOW CEILING) 110 = CANDELA RATING
	COMBINATION HORN STROBE FIRE ALARM - CEILING MOUNTED 110 = CANDELA RATING
	HORN FIRE ALARM - CEILING MOUNTED
	STROBE FIRE ALARM - CEILING MOUNTED 95 = CANDELA RATING
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL (60" A.F.F.)
	FIRE ALARM DIGITAL COMMUNICATOR
	DOOR HOLDER
	MANUAL PULL STATION (48" A.F.F.)
	DUCT DETECTOR
	DUCT DETECTOR SWITCH
	HEAT DETECTOR
	SMOKE DETECTOR
	FIRE SUPPRESSION ALARM
	FIREMANS TELEPHONE OUTLET
	FIRE ALARM FLOW SWITCH
	FIRE ALARM TAMPER SWITCH
	FIRE ALARM MONITOR MODULE
	FIRE ALARM CONTROL MODULE
	POST INDICATING VALVE
	NETWORK / CELL DIGITAL COMMUNICATOR
	CARBON MONOXIDE DETECTOR
	CARBON DIOXIDE DETECTOR
	GENERATOR ANNUNCIATOR

ELECTRICAL EQUIPMENT:

	ELECTRIC METER
	GENERATOR
	PANELBOARD
	DISTRIBUTION PANELBOARD
	TRANSFORMER
	AUTOMATIC TRANSFER SWITCH
	MANUAL TRANSFER SWITCH
	UNINTERRUPTIBLE POWER SOURCE
	MULTIMETER
	SURGE PROTECTOR DEVICE
	UTILITY POLE
	MOTOR WITH DESIGNATION
	MANUAL MOTOR STARTER
	DISCONNECT SWITCH
	COMBINATION STARTER
	MOTOR STARTER
	WEATHER HEAD
	SOLENOID VALVE
	VARIABLE SPEED DRIVE
	ANTENNA - TELEMETRY

ABBREVIATIONS:

A.F.F.	ABOVE FINISH FLOOR
C	CONDUIT
6"	6" ABOVE COUNTER BACKSPLASH
u	USB OUTLET
WP	WEATHERPROOF
GRS	GALVANIZED RIGID STEEL
EMT	ELECTRICAL METAL TUBING
AC	ALTERNATING CURRENT
MC	METAL CLAD CABLE
PVC	POLYVINYL CHLORIDE CONDUIT
IG	ISOLATED GROUND
XFMR	TRANSFORMER

STATION 6 NETWORK NOTES:

- CAT6 WALL LOCATIONS SHALL BE TERMINATED INTO A STANDARD WALL PLATE AT DESK HEIGHT AND HOME RUN TO THE MAIN IT ROOM (106)
 - CAT6 TV LOCATIONS AS INDICATED SHALL HAVE CAT6 DROP TV HEIGHT AND HOME RUN TO THE MAIN IT ROOM (106)
 - ACCESS POINTS SHALL BE CEILING MOUNTED WITH CAT6 THAT HOME RUNS TO THE MAIN IT ROOM (106). WITH THE EXCEPTION OF THE APPARATUS BAY, AP BAY SHALL BE WALL MOUNTED AT 12-14 FT HEIGHT (ALLOWS FOR EASIER SERVICEABILITY).
 - DRAWING ASSUMES CAT6 CABLING SHALL BE INCLUDED AT PHONE LOCATIONS, BOTH DESK PHONES AND WALL MOUNT PHONES
 - ALL CAT6 CABLING SHALL BE HOME RUN TO TERMINATE ON PATCH PANEL
- HARDWARE:** OWNER VENDOR SUPPLIED, INSTALLED BY THIS SCOPE OF WORK
- NETWORK RACK FOR MAIN IT CLOSET
 - WIRELESS ACCESS POINTS
- HARDWARE:** OWNER VENDOR (FEATHERSHARK) SUPPLIED AND INSTALLED
- NETWORK ROUTER
 - NETWORK SWITCHES
 - PHONE HARDWARE
 - NETWORK UPS
- HARDWARE:** PROVIDED (FURNISHED AND INSTALLED) BY THIS SCOPE OF WORK
- CABLING, MOUNTS, HOOKS
 - 48 PORT CAT 6 PATCH PANEL

STATION 6 DOOR ACCESS NOTES:

- EACH DOOR WITH AN ELECTRONIC LOCK SHALL BE PROVIDED WITH 184 CABLE FROM THE STRIKE TO THE IT ROOM (106). CABLE SHALL BE PROVIDED AND TESTED BY THIS CONTRACT.
 - EACH CARD READERS SHALL BE CONNECTED WITH A CAT6 CABLE THAT HOME RUNS TO THE MAIN IT ROOM (106)
 - INTERCOM VIEWERS SHALL BE WALL MOUNTED IN THE HALLWAY AND CONNECTED WITH CAT6 CABLING THAT HOME RUNS TO THE MAIN IT ROOM (106)
 - ALL CAT6 CABLING SHALL HOME RUN AND TERMINATE ON PATCH PANEL
- HARDWARE:** OWNER'S VENDOR SUPPLIED, INSTALLED BY THIS SCOPE OF WORK
- DOOR READERS
 - DOOR READER JUNCTION/MOUNTING BOXES
 - INTERCOM VIEWER
- HARDWARE:** PROVIDED (FURNISHED AND INSTALLED) BY THIS SCOPE OF WORK:
- CABLING, MOUNTS, HOOKS
 - ELECTRONIC DOOR STRIKES (MUST BE 12V1A COMPATIBLE)

STATION 6 TV'S FOR IT USAGE NOTES:

- LOCATIONS MARKED FOR LIVEDASH SHALL BE PROVIDED WITH CAT6 CABLING THAT HOME RUNS TO THE MAIN IT ROOM (106)
- HARDWARE:** OWNER'S VENDOR SUPPLIED, INSTALLED BY THIS SCOPE OF WORK
- TVS
 - TV MOUNTS

GENERAL NOTES:

- ELECTRICAL INSTALLATION PER 2020 NATIONAL ELECTRICAL CODE.
- ALL ELECTRICAL EQUIPMENT SHALL BE UL/NRTL LISTED.
- DETAILS SHOWN IN THESE DRAWINGS APPLY TO INSTALLATIONS INDICATED REGARDLESS AS TO IF THEY ARE SPECIFICALLY REFERENCED ELSEWHERE IN THE DRAWING SET. ANY QUESTIONS ON THEIR APPLICABILITY SHOULD BE SENT TO THE ENGINEER PRIOR TO BIDDING.
- MOUNTING HEIGHTS INDICATED WITHIN PLANS AND SCHEDULES ARE DIMENSIONED TO THE CENTER LINE OF THE DEVICE, EQUIPMENT, LUMINAIRE, ETC. UNLESS OTHERWISE NOTED.
- COORDINATE EXACT EQUIPMENT LOCATIONS WITH OTHER TRADES. EQUIPMENT LOCATIONS SHOWN ON ELECTRICAL PLANS ARE DIAGRAMMATICAL ONLY AND MIGHT NOT BE EXACT.
- COORDINATE ELECTRICAL DEVICE INSTALLATIONS WITH FINAL ARCHITECTURAL PLANS AND ELEVATIONS.
- ALL RECEPTACLES, SWITCHES AND JUNCTION BOXES SHALL BE LABELED WITH PANELBOARD NAME AND CIRCUIT NUMBER.
- PROVIDE FIRE STOPPING AT ALL CONDUIT PENETRATIONS AND CONDUIT SLEEVES THROUGH FLOOR SLABS AND FIRE RATED WALLS TO MAINTAIN REQUIRED FIRE RATING. USE UL LISTED METHODS AND MATERIALS.
- NOT ALL BRANCH CIRCUIT CONDUIT AND WIRE IS SHOWN. ONLY PANELBOARD NAMES AND CIRCUIT NUMBERS ARE SHOWN ADJACENT TO DEVICES. THE REMAINING BRANCH CIRCUIT CONDUIT AND WIRES SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS.
- ALL RECEPTACLES WITHIN 6 FT OF SINKS SHALL BE GFCI TYPE.
- INSTALL EMERGENCY AND EXIT LUMINAIRE WIRING IN A SEPARATE RACEWAY FROM THAT OF ANY NORMAL POWER DEVICE.
- CONCEAL ALL CONDUIT IN WALLS, IN PARTITIONS, AND IN ABOVE CEILINGS, UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT ROUTED IN MECHANICAL ROOMS, ELECTRICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE ROUTED EXPOSED.
- CONCEAL ELECTRICAL CONNECTIONS FOR ELECTRIC WATER COOLERS (EWC) BEHIND WATER COOLER ACCESS PLATE OR DIRECTLY BELOW AND CENTERED ON WALL. CONFORM CIRCUIT WILL BE PROTECTED BY A READILY ACCESSIBLE GFCI DEVICE IN CIRCUIT BREAKER IN PANELBOARD OR GFCI WHEN MOUNTED BELOW, PRIOR TO INSTALLING CIRCUIT.
- FIELD COORDINATE ALL ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT MOUNTING LOCATIONS TO AVOID ENCRoACHMENT OF OPERATION AND ACCESS TO EQUIPMENT FROM OTHER TRADES. COORDINATE THE APPROPRIATE MOUNTING LOCATION WITH THE AFFECTED DISCIPLINES WHEN EQUIPMENT IS SPECIFIED TO BE MOUNTED ONTO THE SURFACE OF ANOTHER DISCIPLINE'S EQUIPMENT.
- ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PERFORMING ARC FLASH, SHORT CIRCUIT, AND COORDINATION STUDIES. RESUBMIT ELECTRICAL POWER DISTRIBUTION EQUIPMENT FOR FINAL APPROVAL OF ARC FLASH, SHORT CIRCUIT, AND COORDINATION STUDIES.
- ALL FACE PLATES IN APPARATUS BAY, GEAR ROOM, EXTRACTOR SHELTER, SCBA AND RESTROOM 123 SHALL BE STAINLESS STEEL.
- DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION OF RECORD DRAWINGS THAT CLEARLY INDICATE ALL REVISIONS TO PANELBOARDS AND BRANCH CIRCUIT NUMBERS TO REFLECT INSTALLED CONDITIONS.

LIGHTING NOTES:

- SWITCHES IN EACH ROOM SHALL CONTROL LIGHTS IN THAT ROOM ONLY UNLESS OTHERWISE NOTED.
- ALL FIXTURES WITH EMERGENCY BATTERY BACKUP SHALL BE WIRED FOR SWITCHED OPERATION UNLESS NOTED OTHERWISE.
- PROVIDE UNSWITCHED PHASE CONDUCTOR TO ALL SWITCHED EMERGENCY BATTERY BACK UP FIXTURES. FOR SWITCHED EMERGENCY FIXTURES WITH INVERTER BACK UP, PROVIDE UL 924 TRANSFER DEVICE. PROVIDE ALL ASSOCIATED WIRING FOR A COMPLETE WORKING SYSTEM.
- COORDINATE FIXTURE LOCATIONS SUCH THAT FIXTURES RUN PARALLEL TO THE FACE OF THE EQUIPMENT AND OVER AISLES BETWEEN EQUIPMENT IN ALL MECHANICAL AND ELECTRICAL EQUIPMENT AREAS. INSTALL AT LOCATIONS AND HEIGHTS TO PROPERLY ILLUMINATE ALL GAUGES, PANELS, ELECTRICAL EQUIPMENT, CONTROLS, VALVES, ETC. CHAIN HANGING, STEM HANGING, CHANNEL HANGING, ETC ARE ACCEPTABLE METHODS.
- SEE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LOCATIONS.
- ALL LIGHTING AND FAN BRANCH CIRCUITING SHALL BE 2 #12, 1 #12 GROUND IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.

LOW VOLTAGE COMMUNIIATION SYSTEMS GENERAL NOTES:

- REFER TO LOW VOLTAGE RESPONSIBILITIES MATRIX ON SHEET E401 FOR DEFINED SCOPE OF WORK.
- COORDINATE LOW VOLTAGE DEVICE LOCATIONS WITH FINAL ARCHITECTURAL PLANS AND ELEVATIONS.
- FOR TELECOMMUNICATION (TELEPHONE/DATA/WAP) OUTLETS, DIV 27 SHALL PROVIDE 4 1/16" SQUARE BOX, 2 1/2" DEEP WITH SINGLE GANG PLASTER RING, 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH 90 DEGREE SWEEP AND BUSHING STUBBED TO WITHIN 6" OF J-HOOK PATHWAY.
- PROVIDE NEW FIRE ALARM SYSTEM INCLUDING SEALED DESIGN DOCUMENTS PER SPECIFICATION SECTION 28311. PROVIDE CONTROL MODULES AND RELAY MODULES AS REQUIRED. INSTALLATION SHALL CONFORM TO NFPA 72 GUIDELINES.
- PROVIDE SYNCHRONIZATION OF ALL FIRE ALARM VISUAL NOTIFICATION APPLIANCE CIRCUITS THROUGHOUT THE SCOPE OF WORK AREA.
- SMOKE DETECTORS SHALL BE INSTALLED A MINIMUM OF 3'-0" FROM AIR SUPPLY AND RETURNS AS REQUIRED.
- CCTV CABLING SHALL BE CAT6 IN GREEN JACKET.
- ALL OUTDOOR & UNDER FLOOR CABLING SHALL BE "OUTDOOR RATED".
- ALL CABLING SHALL BE PLENUM RATED.

FIRE STATION ALERTING SYSTEM (FSAS) NOTES:

- OWNER'S VENDOR SHALL PROVIDE TV DASHBOARDS AND ASSOCIATED DISTRIBUTION SYSTEM COMPONENTS THROUGHOUT.
- OUTDOOR SPEAKERS SHALL HAVE SILENT HOURS.
- OWNER'S VENDOR FSAS SYSTEM SHALL PROVIDE 120V TRIGGER FOR STREET MOUNTED WARNING LIGHTS. THE 120V CIRCUIT IN CONDUIT SHALL BE BY DIV 26 CONTRACTOR.
- OWNER'S VENDOR SHALL PROVIDE LOW VOLTAGE WIRING AND DEVICE MOUNTING HARDWARE FOR FSAS.
- OWNER'S VENDOR SHALL PROVIDE BASE STATION RADIO AUDIO FEED @ 500 OHMS FOR FSAS FROM CAPTAIN OFFICE 105.

ELECTRICAL LEGEND

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED

Name: Mary J Grib
Discipline: Professional Engineer
License No: PE-026901
Expiration Date: 12/31/2027

THE PROFESSIONAL ENGINEER'S SIGNATURE AND SEAL SHALL APPEAR HERE. ASSUME RESPONSIBILITY FOR WHAT APPEARS ON THIS SHEET ONLY. ALL OTHER DOCUMENTS, DESIGN OR OTHERWISE BY CONTRACTOR, OWNER OR OTHERS ARE NOT PART OF THE PROJECT FOR WHICH THIS SEAL INDICATES RESPONSIBILITY.

Project No.
24057

Sheet No.
E001

Date
2026/06/08

Archimages Inc. # 000560
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143 West Clinton
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architecture

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Place

Proposed:

Revision

No. 1

Date 7/7/2025

As Issued 01

Electrical Symbols & Abbreviations

151 JUNG STATION RD

LOW VOLTAGE SCOPE OF WORK RESPONSIBILITY MATRIX

NETWORK EQUIPMENT AND HARDWARE			
HARDWARE	PURPOSE	PROVIDED BY	INSTALLED BY
Network Rack / Cabinet (1) Unifi U7 Pro Access Points (4) Unifi U7 Pro Max (2) Unifi Dream Machine Pro (1) Unifi Pro Switches (2x24) Unifi Patch Cables (1x48) Network UPS / Battery Backup (1) VoIP Phones (15) Patch Panel Wall and Floor Jacks Cat6 Cabling	Mount Network Equipment and Wiring Provide WIFI to Building Beam to the Maintenance Building Runs Internal Network Uplink Patch Panel Cat6 Ports to each Switch Power backup for Network Equipment Telecomm Service for the Building Consolidate and Organize Network Wiring Terminate Network Wiring Network Wiring	FeatherShark FeatherShark FeatherShark FeatherShark FeatherShark FeatherShark FeatherShark FeatherShark FeatherShark FeatherShark	Div 27 Contractor Div 27 Contractor Div 27 Contractor Div 27 Contractor Div 27 Contractor Div 27 Contractor Div 27 Contractor Div 27 Contractor Div 27 Contractor Div 27 Contractor
DOOR ACCESS AND GATES			
HARDWARE	PURPOSE	PROVIDED BY	INSTALLED BY
Unifi Reader Pro Unifi Enterprise Access Hub Unifi Reader Pro Junction Box Unifi Intercom Viewer Electronic Door Strikes / Contacts 184 Cabling Cat6 Cabling	Keypad Readers for Exterior Doors Manage Door Access and Door Strikes Mount Exterior Keypad Readers View and Allow Entry to Visitors Connect Door Latches to Door Access System Door Strike Wiring Door Equipment Wiring	FeatherShark FeatherShark FeatherShark FeatherShark FeatherShark FeatherShark FeatherShark	Div 27 Contractor Div 27 Contractor Div 27 Contractor Div 27 Contractor Div 27 Contractor Div 27 Contractor Div 27 Contractor
TV MONITORS			
HARDWARE	PURPOSE	PROVIDED BY	INSTALLED BY
Samsung 55" TV Samsung 45" TV Full Articulating TV Mount	Apparatus Bay - LiveDash Hallway - LiveDash Mount Multi Purpose TVs to Wall Locations	FeatherShark FeatherShark FeatherShark	Div 27 Contractor Div 27 Contractor Div 27 Contractor

SHEET E401 KEYED NOTES

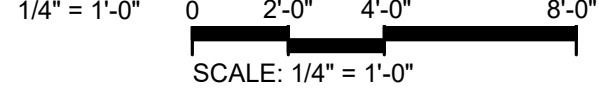
- SEE LARGE SCALE PLAN THIS SHEET FOR MORE INFORMATION.
- SMOKE DETECTOR SHALL BE SUPPLIED WITH LOCAL SOUNDER BASE (520 Hz).
- FLUSH MOUNTED GENERATOR ANNUNCIATOR PANEL.
- FLUSH MOUNTED FIRE ALARM ANNUNCIATOR PANEL.
- POST INDICATOR VALVE. SEE CIVIL PLANS FOR EXACT LOCATION.
- ELECTRONIC WATER GONG PROVIDED BY FIRE PROTECTION CONTRACTOR INSTALLED BY DIVISION 26 CONTRACTOR. REFER TO SHEET E202 FOR POWER CIRCUIT.
- CONNECT MONITOR MODULE AND SMOKE DETECTION AS REQUIRED TO DRY PIPE SPRINKLER SYSTEM ALARM, SUPERVISORY AND TROUBLE ALARMS. COORDINATE WITH DRY PIPE SPRINKLER VENDOR CONTRACTOR.
- PROVIDE 1" CONDUIT WITH STARLINK PROPRIETARY POWER AND DATA COMBINED CABLE TO EXTERIOR EVE FOR CONNECTION TO OWNER SUPPLIED AND CONTRACTOR INSTALLED STARLINK ANTENNA.
- BUILDING MANAGEMENT SYSTEM CONTROL PANEL BY DIVISION 23 CONTRACTOR.
- RACK AND CABINET FURNISHED BY FEATHERSHARK AND INSTALLED BY DIVISION 27 CONTRACTOR. UPS PROVIDED BY FEATHERSHARK. 48 PORT, CAT6 PATCH PANEL PROVIDED BY DIVISION 27 CONTRACTOR.
- 3/4" FIRE RATED PLY WALL ON WALL. PAINT WHITE EXCEPT FIRE LABEL.
- (3) 2" CONDUITS WITH PULL STRING FOR CATV, FIBER AND PHONE TO PROPERTY LINE. SEE SHEET E101 FOR CONTINUATION.
- DATA FOR HVAC CONTROLLER. COORDINATE LOCATION WITH DIVISION 23 CONTRACTOR.
- PROVIDE FACP CAPABILITY TO COMMUNICATE TO A CENTRAL STATION. NOTE THAT INITIAL SYSTEM OPERATION WILL NOTIFY LOCALLY ONLY AND WILL NOT REPORT TO A CENTRAL STATION.
- PROVIDE AN 184 SHIELDED PLENUM CABLE FROM THE BABY BOX ALARM TO THE IT ROOM FOR MONITORING OF THE BABY BOX.
- G2 ROOM REMOTE 2. SEE AUXILIARY DETAILS SHEETS E402 AND E403 FOR MORE DETAIL.
- G2 LED FLUSH MOUNT SPEAKER. SEE AUXILIARY DETAILS SHEETS E402 AND E403 FOR MORE DETAIL.
- FLUSH MOUNT SPEAKER. SEE AUXILIARY DETAILS SHEETS E402 AND E403 FOR MORE DETAIL.
- BOGAM WEATHERPROOF SPEAKER. SEE AUXILIARY DETAILS SHEETS E402 AND E403 FOR MORE DETAIL.
- G2 OMNI ALERT STROBE SPEAKER. SEE AUXILIARY DETAILS SHEETS E402 AND E403 FOR MORE DETAIL.
- METAL BOX SPEAKER. SEE AUXILIARY DETAILS SHEETS E402 AND E403 FOR MORE DETAIL.
- G2 STROBE LIGHT. SEE AUXILIARY DETAILS SHEETS E402 AND E403 FOR MORE DETAIL.
- SPEAKER VOLUME CONTROL. SEE AUXILIARY DETAILS SHEETS E402 AND E403 FOR MORE DETAIL.
- ATX STATION CONTROLLER. SEE AUXILIARY DETAILS SHEETS E402 AND E403 FOR MORE DETAIL.
- ATX EXPANSION MODULE. SEE AUXILIARY DETAILS SHEETS E402 AND E403 FOR MORE DETAIL.
- CYBER POWER UPS BATTERY BACKUP. SEE AUXILIARY DETAILS SHEETS E402 AND E403 FOR MORE DETAIL.
- G2 I/O REMOTE. SEE AUXILIARY DETAILS SHEETS E402 AND E403 FOR MORE DETAIL.

FIRE ALARM SYSTEM FUNCTION CHART

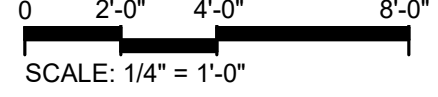
The System will Function as Shown in the Function Chart Below:

FIRE ALARM SYSTEM FUNCTION CHART	INPUT	OUTPUT													
		Smoke Detector(s) (Central Hall)	Smoke Detector(s) (Bunk Room)	Manual Pull Station(s) (Kitchen Hood)	Waterflow Switch(es)	Tamper Switches	Any Trouble on System	PV	Manual Pull Station(s) (Kitchen Hood)	Smoke Detector Bunk Room	Bunk Rm Carbon Monoxide Detector	Annunciate Zone/Device on Fire Alarm Control Panel/Annunciators	Activate Digital Communicator Contact for Alarm Condition	Activate Digital Communicator Contact for Trouble Condition	Activate Digital Communicator Contact for Supervisory Condition
Activate Audible/Visual Devices															
Shutdown Air Handler Unit(s) (RTU, OA, FCU's)															
Activate Smoke Detector Sounder Base															
Close Smoke Dampers															
Activate Exterior Horn/Strobe															
Shutdown Power To Cooking Appliances Under Hood															
Shutdown Power To Kitchen Hood Lighting															
Shutdown Power To Kitchen Hood Makeup Air Unit															
Shutdown Gas to Affected Cooking Lines															
Signal Access Control Power Supplies to unlock Path of Egress Doors															

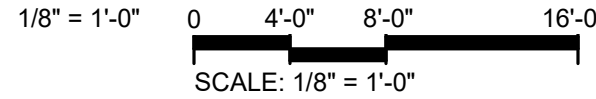
2 LARGE SCALE I.T. 106 AUXILIARY PLAN



3 ATTIC AUXILIARY PLAN

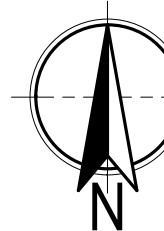


1 AUXILIARY PLAN



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SCALE: 9936" = 1'-0"
SCALE: 9960" = 1'-0"
SCALE: 9984" = 1'-0"
SCALE: 10000" = 1'-0"

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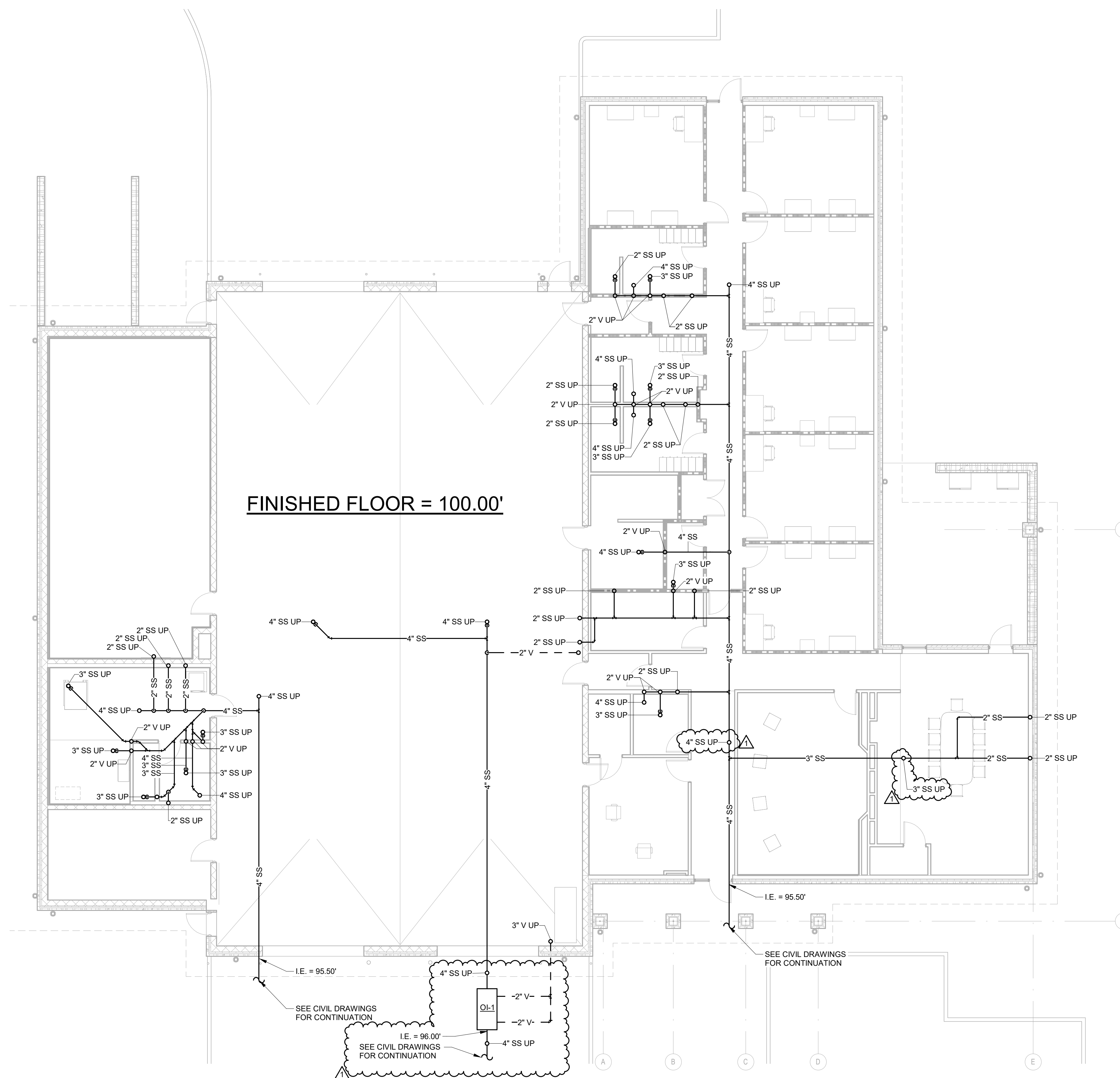


1

UNDERFLOOR PLUMBING PLAN

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

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



Name: Richard W. Halteman
License No: PE-25112
Expiration Date: 12/31/2026

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No. 1
Date 7/7/26
Revision
Addendum 01

Proposed:

CCF&R HOUSE 06

PLUMBING UNDERFLOOR PLAN

Project No.
24057

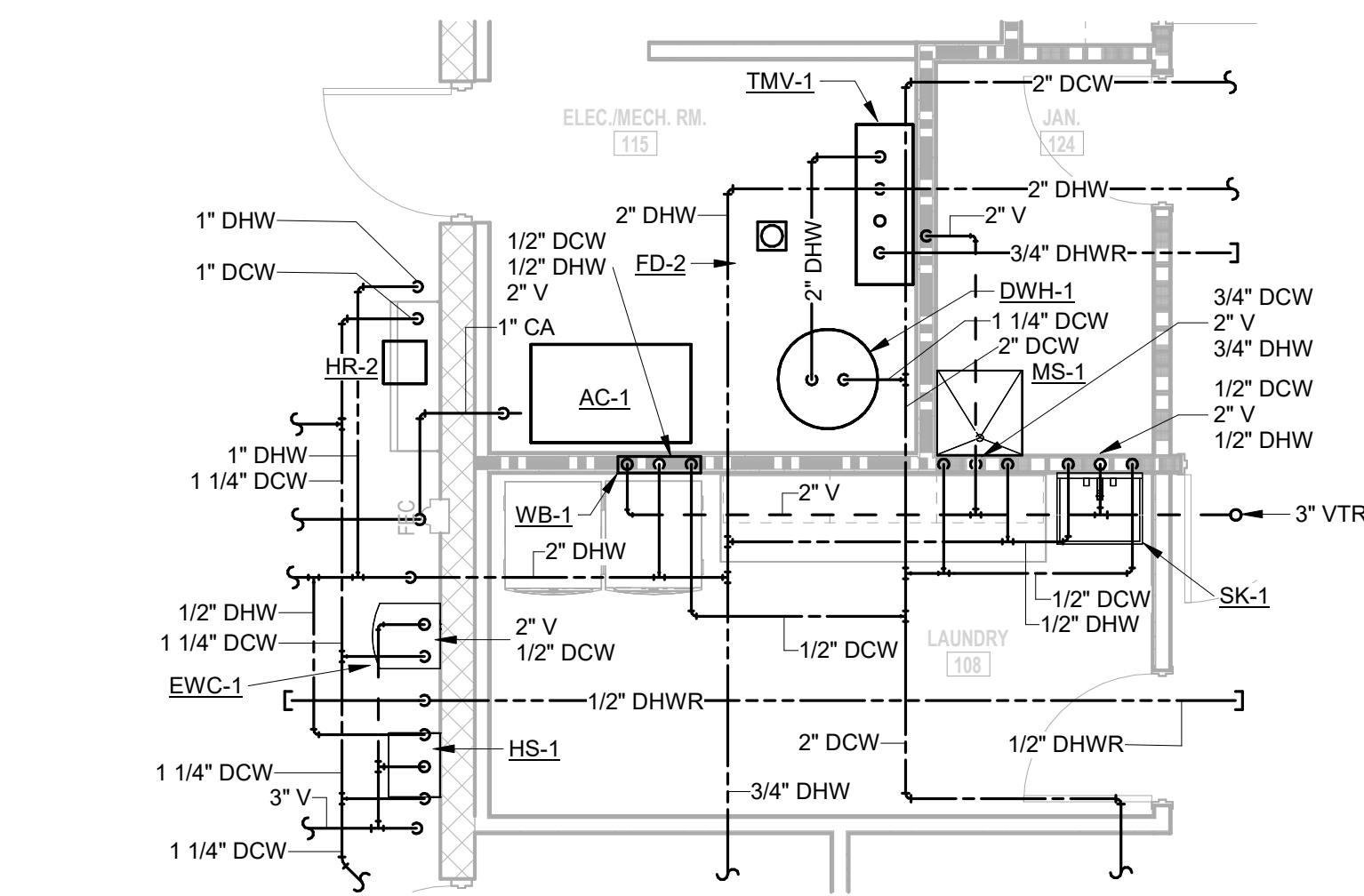
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P200

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2026/07/07

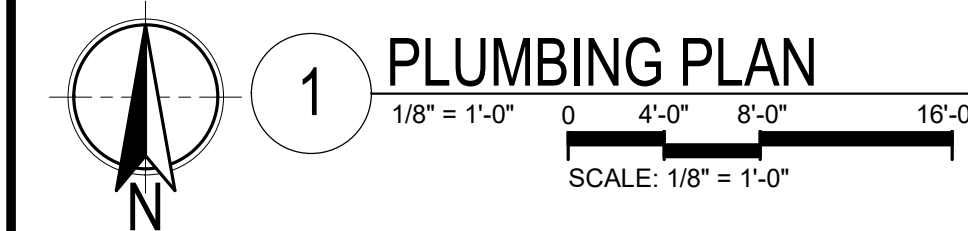
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2 MECHANICAL/JANITOR ROOM ENLARGED VIEW
1/4" = 1'-0"



SHEET P201 GENERAL NOTES

- # SHEET P201 KEYED NOTES**

 - 1 SEE DETAIL 1 ON SHEET P502 FOR ADDITIONAL INFORMATION.
 - 2 PROVIDE 1" HOT AND COLD WATER DIRECT CONNECTIONS TO EXTRACTOR.
 - 3 PROVIDE 3" DRAIN FROM EXTRACTOR AND TERMINATE OVER PORTION OF DRAIN WITHOUT GRATE.
 - 4 INSTALL WASTE LINE FROM DISHWASHER BACK TO SINK. CONNECT DISPOSAL PER MANUFACTURER'S RECOMMENDATIONS WITH AIR GAP FITTING THROUGH COUNTERTOP ON WASTE LINE.
 - 5 COMBINE 2" VENT FROM WC-1, 2" VENT FROM FD-1 AND 2" VENT FROM L-1 IN WALL TO SINGLE 3" VTR.

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PLUMBING FLOOR PLAN

150000

No.	Date	Revision
1	7/7/26	Addendum 01

PLUMBING FLOOR PLAN

Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

Sheet No.
P201
Date
2026/07/07



Name: Richard W. Halteman
Discipline: Professional Engineer
License No: PE-25112
Expiration Date: 12/31/2026

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