



Historic Preservation Services
Community Development & Neighborhood Services
281 N. College Ave.
Fort Collins, CO 80524
970.224.6078
preservation@fcgov.com
fcgov.com/historicpreservation

CERTIFICATE OF APPROPRIATENESS

ISSUED: July 3, 2025

EXPIRATION: July 3, 2026

First Presbyterian Church
c/o Sean Kemper, Elder Construction
7380 Greendale Rd. Ste. 100
Windsor, CO 80550

Dear Property Owner:

This letter provides you with confirmation that the proposed changes to your designated historic property, the First Presbyterian Church at 531 S. College Ave., have been approved by the City's Historic Preservation Division because the proposed work meets the criteria and standards in Chapter 14, [Article IV](#) of the Fort Collins Municipal Code as well as the requirements of Section 5.8.1 of the Land Use Code.

- 1) Elevator tower addition with stucco wall surfaces and aluminum windows
- 2) Replacement of window AC/PTAC units with salvaged window sashes (or matching window sashes, if necessary)
- 3) Exterior light fixtures
- 4) Ductless AC system exterior equipment
- 5) Screen wall for ductless unit equipment
- 6) Asphalt removal/repair
- 7) Removal/replacement of transformer and electric meter

Notice of the approved application has been provided to building and zoning staff to facilitate the processing of any permits that are needed for the work.

Please note that all ensuing work must conform to the approved plans. Any non-conforming alterations are subject to stop-work orders, denial of Certificate of Occupancy, and restoration requirements and penalties.

If the approved work is not completed prior to the expiration date noted above, you may apply for an extension by contacting staff at least 30 days prior to expiration. Extensions may be granted for up to 12 additional months, based on a satisfactory staff review of the extension request.

Property owners can appeal staff design review decisions by filing a written notice of appeal to the Director of Community Development & Neighborhood Services within fourteen (14) days of this decision. If you have any questions regarding this approval, or if I may be of any assistance, please do not hesitate to contact me. I can be reached at yjones@fcgov.com or at 970-224-6045.

Sincerely,

Yani Jones
Historic Preservation Planner

Applicable Code Standard	Summary of Code Requirement and Analysis (Rehabilitation)	Standard Met (Y/N)
SOI #1	<i>A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships;</i> This project does not change the use of the this historic church and its Education Wing, so this Standard is met.	Y
SOI #2	<i>The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.</i> The First Presbyterian Church is designated on the State Register of Historic Properties under Criterion C, for its significant architecture. This project mainly concerns the Education Wing, which was constructed in 1959, designed in the International Style by a prominent local architect, William Robb. William Robb was Fort Collins's most prolific midcentury architect, whose wide range of designs included institutional buildings like this one, commercial buildings, residences, and more. The remainder of the building developed over the subsequent decades; the 1976 sanctuary was designed by well-known church designer Harold Wagoner in a style he called "Colorado Modern," and the office and Fellowship Hall addition was constructed in 1988. Because most of the elements of this project either result in minimal or no visual change to the building, the character of the church's Education Wing will be preserved. Some non-historic or non-character defining features are planned for removal/replacement as part of this project, such as a couple of exterior light fixtures, which will be replaced with units of a very simple, unobtrusive design. The most significant changes to the building are the elevator tower addition on the west side of the Education Wing and the screen wall on the roof of the single-story portion of the south side of the building. The elevator addition is necessarily visible from the right-of-way due to the building's location on a corner and the orientation of the Education Wing, but it is set at the far end of the wing from the street, minimizing its visual impact. The design of the elevator tower is also simple, with horizontal references to the Education Wing and materials complementary to that part of the building; the character of the historic building	Y

Applicable Code Standard	Summary of Code Requirement and Analysis (Rehabilitation)	Standard Met (Y/N)
	will be maintained. Furthermore, window materials being removed for the construction of the elevator tower will be salvaged and reused, if possible, as part of this project. The other alteration, the screen wall, is required by code to shield equipment and is set back from the south wall plane of the building, which makes its visual impact negligible. This Standard is met.	
SOI #3	<i>Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.</i> The elevator tower addition's design is distinct from the design of the Education Wing, Sanctuary, and Office/Fellowship Hall addition, and does not give an impression of false history. The other components of this project clearly conform to this Standard or are not applicable. For this reason, this Standard is met.	Y
SOI #4	<i>Changes to a property that have acquired historic significance in their own right will be retained and preserved.</i> This church was constructed in phases, with the Education Wing being the earliest portion. The Education Wing also has significance due to its design as described under Standard #2. The different components of this project respect the significance and integrity of the Education Wing, and so this Standard is met.	Y
SOI #5	<i>Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.</i> Some materials will be removed and replaced during this project. Many of these materials are non-character defining or non-historic, such as exterior light fixtures, a transformer and other equipment, some asphalt, and some AC/PTAC units. To accommodate the elevator tower addition, some loss of material is necessary, including some wall material and windows, but some of the window sashes being removed are planned for salvage and reuse in the openings left by removed AC/PTAC units. This Standard is met.	Y

Applicable Code Standard	Summary of Code Requirement and Analysis (Rehabilitation)	Standard Met (Y/N)
SOI #6	<i>Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and, where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.</i>	N/A
SOI #7	<i>Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.</i>	N/A
SOI #8	<i>Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.</i> It is unlikely that archaeological resources will be uncovered during the excavation for the utility work/asphalt removal or the excavation needed for the elevator tower addition, but the applicant/owner should be advised of this Standard and please contact Historic Preservation Services immediately for assistance should anything be uncovered at 970-224-6078 and preservation@fcgov.com.	Y
SOI #9	<i>New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.</i> As described under Standard #5, some loss of historic material is necessary to accommodate the elevator tower addition. However, the loss of these materials, at the far end of the Education Wing and edge of the 1988 addition, do not compromise the character of the property. The addition is differentiated from the historic building through the use of stucco material, distinct from the Education Wing's brick and the abutting 1988 addition's rock-embedded precast concrete panels, and the design and size are deferential to the historic building. The material of the windows in the elevator tower, aluminum, references the aluminum windows in the abutting Education Wing. The color of the addition's stucco will be beige, referencing the Education Wing's blond brick. Although it will need to be slightly taller than the Education Wing for the functionality of the elevator, the top of its parapet only slightly exceeds that of the Education Wing's roof (about 3 feet). The stucco screen wall that will be added on the south elevation is	Y

Applicable Code Standard	Summary of Code Requirement and Analysis (Rehabilitation)	Standard Met (Y/N)
	also minimally obtrusive, being set back from the wall plane and matching the adjacent concrete cap. This Standard is met.	
SOI #10	<i>New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.</i> If it is desired to remove the elevator tower addition in the future, the essential form of the building would remain, although the section of wall and window material removed would have to be replaced. The screen wall could be easily removed, if desired, with no impact to the appearance of the historic property. This Standard is met.	Y



BUILDING PERMIT APPLICATION:

Tenant Finish (commercial)

All information on the application must be filled out (as applicable).

JOB SITE ADDRESS: 531 S College Avenue Fort Collins, CO 80524 **UNIT#:** _____

PROPERTY OWNER INFO: (All owner information is required – NOT optional)

Last Name Schuchmann First Name Walter Middle H
Street Address 531 S College Avenue City Fort Collins State CO Zip 80524
Phone # 571-212-1694 Email whsdc@aol.com

CONTRACTOR INFO:

Company Name Elder Construction
License Holder Name Patrick Elder LIC # B-396 CERT # 2948-B

CONSTRUCTION INFO:

1. Name of Business (fill in info below related to tenant): First Presbyterian Church

Existing Tenant ☒ New Tenant ☐ First tenant/occupant in a new building/space ☐

Name of prior tenant/business (or prior use): _____

Proposed Use: Tenant finish of existing church to improve finishes and functionality of church

2. Are there any exterior building changes (including mechanical) associated with the work? Yes ☒ No ☐
Describe: Improvements to exterior include stucco work, painting, elevator shaft addition, window sashes, and lighting

3. Scope of Work Square Footage (leave blank where work is not occurring):

1st Floor Sq Ft 10,371 + 2nd Floor Sq Ft 21,630 + 3rd Floor Sq Ft 7,481 + 4th Floor Sq Ft _____
+ 5th Floor Sq Ft _____ + 6th Floor Sq Ft _____ + 7th Floor Sq Ft _____ Other _____
+ Unfin. Bsmt Sq Ft (remain unfin.) _____ + Fin Bsmt Sq Ft (to be fin.) _____ = Total Scope of Work Sq Ft 39,482

4. What is being added to the space (not previously existing/currently present)?:

of Full Baths _____ # ¾ Baths _____ # ½ Baths _____ # Fireplaces _____

5. Is the building currently fire sprinkled? Yes ☐ No ☒

6. Asbestos Disclosure:

In accordance with the State of Colorado Senate Bill 13-152, property owners, applying for a remodel permit, shall indicate their awareness about their property having been inspected for Asbestos Containing Materials (ACM's).

☐ I do not know if an asbestos inspection has been conducted on this property

☒ An asbestos inspection has been conducted on this property on or around the date of: April 27th 2023

☐ An asbestos inspection has not been conducted on this property

UTILITIES INFO:

Electric Service Upgrade Yes ☒ No ☐ Existing Amps 1200 New Amps 1200
Electric Meter Relocation Yes ☒ No ☐

VALUE OF CONSTRUCTION (*materials and labor*): \$ 3,400,000

DESCRIPTION OF WORK:

Work includes but is not limited to abatement of existing asbestos, demolition of ceilings, walls, hydrolic system, and casework, upgrading MEPs and installing new sprinkler system, installing new elevator and shaft, installing finishes to complete space, installing new transformer and new fire sprinkler line.

JOBSITE SUPERVISOR CONTACT INFO: Name Sean Kemper Phone 970-698-1263

SUBCONTRACTOR INFO:

Electrical Conduct All Structural Framing (wood only) N/A Mechanical Air Comfort
Plumbing Mechanical Masters Fireplace N/A Roofing TBD

Applicant: I hereby acknowledge that I have read this application and state that the above information is correct and agree to comply with all requirements contained herein and City of Fort Collins ordinances and state laws regulating building construction.

Applicant Signature _____ Type or Print Name Sean Kemper
Phone # 970-698-1263 Email sean.kemper@elderconstructioninc.com

THIS APPLICATION EXPIRES 180 DAYS FROM APPLICATION DATE



Planning, Development & Transportation
281 N. College Ave
Fort Collins, CO 80524
Phone 970-416-2740 Fax 224-6134

BUILDING OWNER AUTHORIZATION TO OBTAIN A COMMERCIAL BUILDING PERMIT

I, (Print) Walter H. Schuchmann, Corporate President as owner of record (property address) 531 S. College, Ft Collins known as (name of business) First Presbyterian Church hereby authorize the work listed below to be done on said property. I understand that such work will **only be performed by contractors licensed by the City of Fort Collins.**

☐ I am giving permission for **interior work only**. The scope of the work shall be limited to: _____

☐ I am giving permission for **exterior work only**. The scope of the work shall be limited to: _____

☒ I am giving permission for **interior and exterior work**. The scope of the work shall be limited to: _____

Walter H. Schuchmann
(Property owner signature)

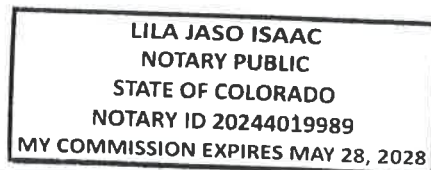
Walter H. Schuchmann
(Property owner name; please print)

The foregoing affidavit was acknowledged before me on the 19 day of June, 2025 (month, year) by Lila Isaac for the purpose therein set forth.

Witness my hand and official seal.

My Commission expires:

May 28, 2028



Notary Public

Permit # _____
Office use only

Type of Contractor License needed:

Structural: A, B, C,

Non-structural: E

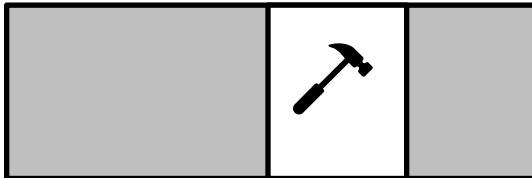
Submittal Guide

Commercial Remodel/Tenant Finish

Use this Guide for:



Change of function, use, or occupancy



- Remodel and improvements.
- Preliminary work in preparation for future tenants (i.e. work white box, vanilla shell, demising walls etc).



First tenant to occupy a vacant space or unit in a new building.

Notice to Applicants:

A Development review process may be required prior to permit submittal for:
Change of Use (function) of a commercial space or exterior modifications (i.e.: façade, parking, landscaping, or other changes visible to the public). drcoord@fcgov.com 970-221-6689

Upon submitting your permit, utilities will determine if a free, remote energy assessment is warranted. Our team may reach out directly to the building owner's representative concerning the assessment. For questions contact 970-221-6818 assessments@fcgov.com



Tenant Finish Checklist (fill out as it pertains to the project scope).

Check before submitting. Separate and addition submittals may be required.

***If required, it is the applicant's responsibility to attain approvals from the following entities, some of which may be required for permit issuance.

Yes	Floodplain: Is any portion of the building located in a floodplain? https://www.fcgov.com/floodplain-maps
Yes	Historic: Is the building historically designated? www.fcgov.com/historicpreservation
Yes	Zoning: Is the use of the building allowed in this zone? https://www.fcgov.com/zoning/
Yes	Poudre Fire Authority: 102 Remington St. / (970)-416-2891 / https://www.poudre-fire.org/online-services/contractors-plan-reviews-and-permits 1. Most commercial remodels require a separate and addition permit (see link above to submit). 2. Fire suppression system modifications require a separate and addition permit (see link above to submit).
No	Larimer County Health Department: 1525 Blue Spruce Dr. / (970)-498-6785 / https://www.larimer.org/health A separate and additional submittal are required for the service, preparation, or processing of food or drinks; daycare facilities; schools; and healthcare.
No	Engineering Department: https://www.fcgov.com/engineering/inspection.php Work impacting or encroaching into the Public Right-of-way
Yes	Does the scope of work involve more than one trade (Electric, plumbing, framing)?
	☒ A licensed general contractor is required
	☒ The single permit will include all subtrades which need to be listed on the permit application
Yes	Is demolition occurring?
	An optional demolition permit is available prior to tenant finish permits being issued. See: commercial demo guide
	See separate, additional State requirements for asbestos: https://cdphe.colorado.gov/indoor-air-quality/asbestos

Building Permit Submittal Checklist

Yes	Tenant Finish Building Permit Application
Yes	Owner Authorization Form
Website	Construction Waste Management Plan (required for a scope of work more than 2,500 sf)
Yes	This checklist filled out and all documents in this checklist must follow the electronic document submittal guide .
Yes	Plan check fee
Yes	Site Plan (only if exterior work is being proposed i.e. attached patio cover, dining patio etc.)
Yes	Plans Set must include all the following <i>as it pertains to the project scope</i> : <i>Example: If no plumbing work is occurring, check NA. If plumbing work is occurring, plans should contain plumbing drawings.</i>
Yes	All plans must reflect the current adopted codes
Yes	A <i>fully stamped set of plans</i> is required if any of these conditions apply: 1. Scope of work exceeds 5,000 sq ft 2. First Tenant to occupy a space 3. Change of Occupancy (architect evaluation letter can be submitted where no/minor work is being done).
Yes	Floor Plans: ☒ Existing AND ☒ Proposed (include room labels, square footages, dimensions, drawn to scale).
Yes	Accessibility drawings: if there are accessibility improvements (i.e. wheelchair accessible restrooms, ramps etc.).
Yes	Drawing Details: such as wall sections, fire rated assemblies, stair and guardrail details, door operation and locking, interior and exterior elevations (i.e. restroom elevations).
Yes	Energy Code items per the IECC (lighting comcheck, insulation details, mechanical ventilation, etc.)
Yes	Structural drawings: Including structural evaluations for weight added to existing roofs (RTU's, condensing units, etc.) ***All structural drawings/evaluation letters must be stamped.
Yes	Mechanical Drawings: showing items such as heating/cooling equipment, ductwork, exhaust, hoods, ventilation, special equipment, or systems. ***Stamped mechanical engineered drawings are required for full new mechanical systems (I.E.: new ductwork + new RTU).
Yes	Plumbing Drawings: showing waste and vent diagrams, water supply, plumbing fixtures, water heaters, gas lines, grease interceptors, special systems, and equipment.
Yes	Electrical Drawings: Includes outlets, lighting, panels, and special equipment. New 3 phase service or service change more than 225 amps requires an engineered + stamped electrical One-Line Check any that apply: ☒ New electric service ☐ Electric meter relocation

Applicant's Name: Sean Kemper

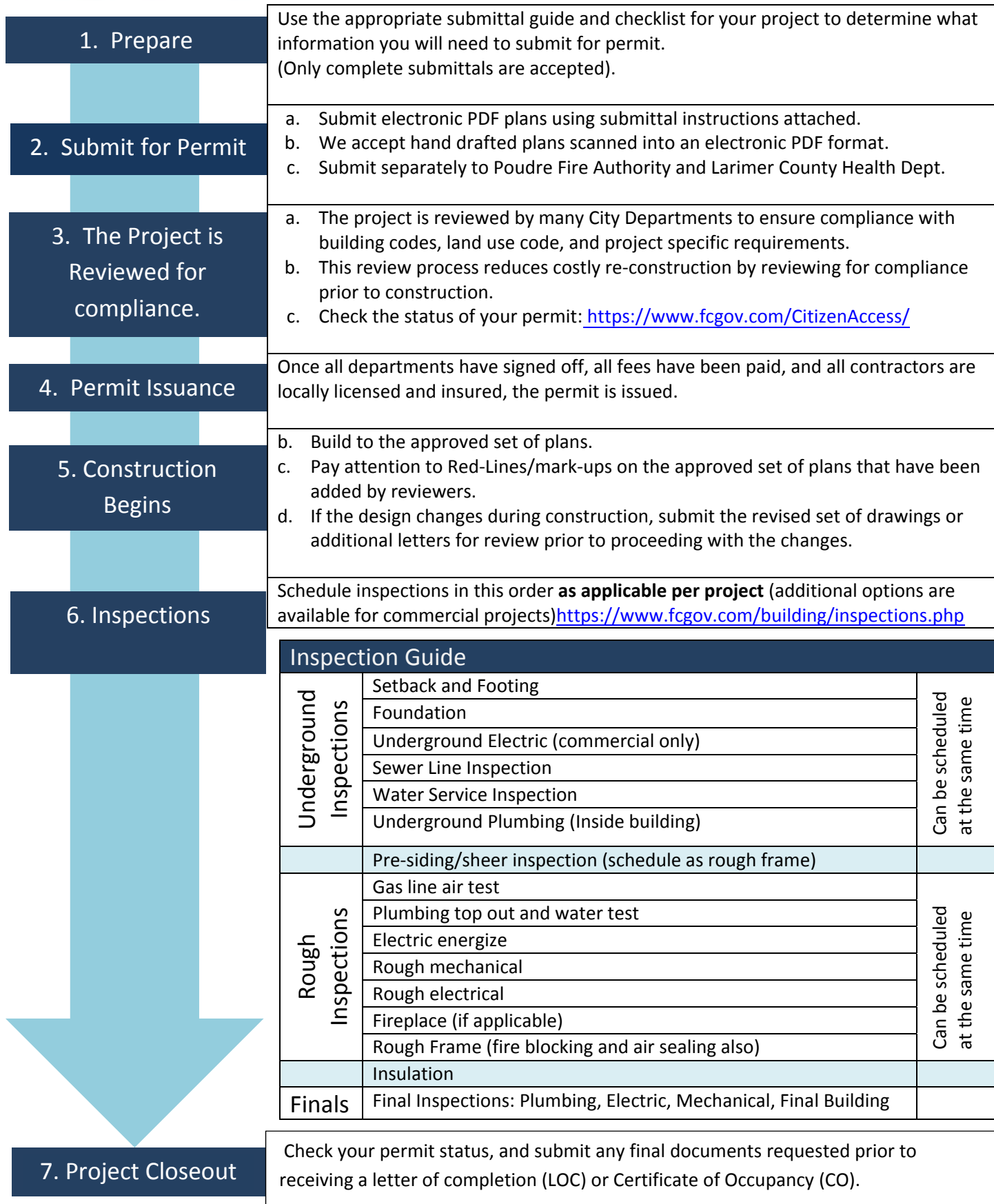
Date: 6/18/25

Job site address: 531 S College Avenue

E-Mail Address: sean.kemper@elderconstructionin



Building Permit Process



No Approved Plans = No inspection

All approved *documents* must be on-site during construction for all inspections.

1. Use Citizen Access to download *all documents* titled “Approved”
 - a. WWW.FCGOV.COM/CitizenAccess
 - b. See page 2 for steps.
2. The approved documents are the “field set.” Pay attention to red-line mark-ups and condition notes from reviewers during construction as these requirements are part of your approved plans.
3. Provide all “Approved” documents on-site for all inspections using one of the following methods:
 - a. **Option 1 – Printed Plans:**
 - i. Print all documents to scale on the PDF size created by the designer. (i.e. a 24x36 PDF should be a 24x36 paper size. This may require a plotter or print shop for large sheets.)
 - ii. Plans that are too small, or not to scale cannot be used.
 - iii. Plans can be printed in black and white (color is optional)
 - b. **Option 2 – Electronic Screen:**
 - i. Must be a large device (i.e. large tablet or laptop, no phones).
 - ii. Screen must be mobile.
 - iii. Screen must be clean, clear and free of cracks.
4. Building Inspectors are authorized to deny inspections that are not ready, or do not have approved and legible plans on-site.

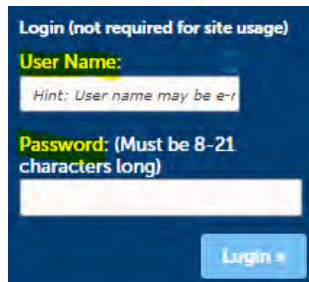
How to download Approved Documents:

1. Do you have an account? If not, Register for an Account: Citizen Portal

[Accessibility Support](#) [Register for an Account](#) [Login](#)

Follow instructions as they appear on the screen. "Company Name" is a *required field*. (Property Owner, Engineer Firm, Architect Firm, Contractor). You must be associated with a project team/company to register. After registering, a confirmation e-mail will be sent. Then, create a username and password

2. Log In using your username and password:



Login (not required for site usage)

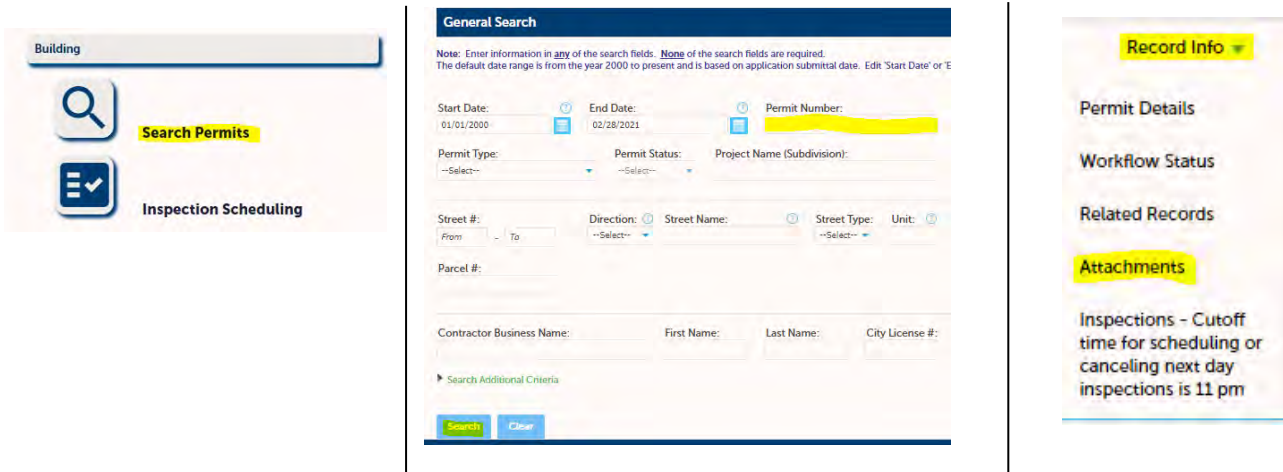
User Name:
Hint: User name may be e-f

Password: (Must be 8-21 characters long)

Login

You must log in before you can view or download approved documents.

3. Search permits by permit number, then click the "record info" drop down to access "Attachments"



Building

Search Permits

Inspection Scheduling

General Search

Note: Enter information in any of the search fields. None of the search fields are required. The default date range is from the year 2000 to present and is based on application submittal date. Edit 'Start Date' or 'End Date'.

Start Date: 01/01/2000 End Date: 02/28/2021 Permit Number: [Redacted]

Permit Type: --Select-- Permit Status: --Select-- Project Name (Subdivision):

Street #: From To Direction: --Select-- Street Name: --Select-- Street Type: --Select-- Unit: --Select--

Parcel #:

Contractor Business Name: First Name: Last Name: City License #:

Search Additional Criteria

Search Clear

Record Info

Permit Details

Workflow Status

Related Records

Attachments

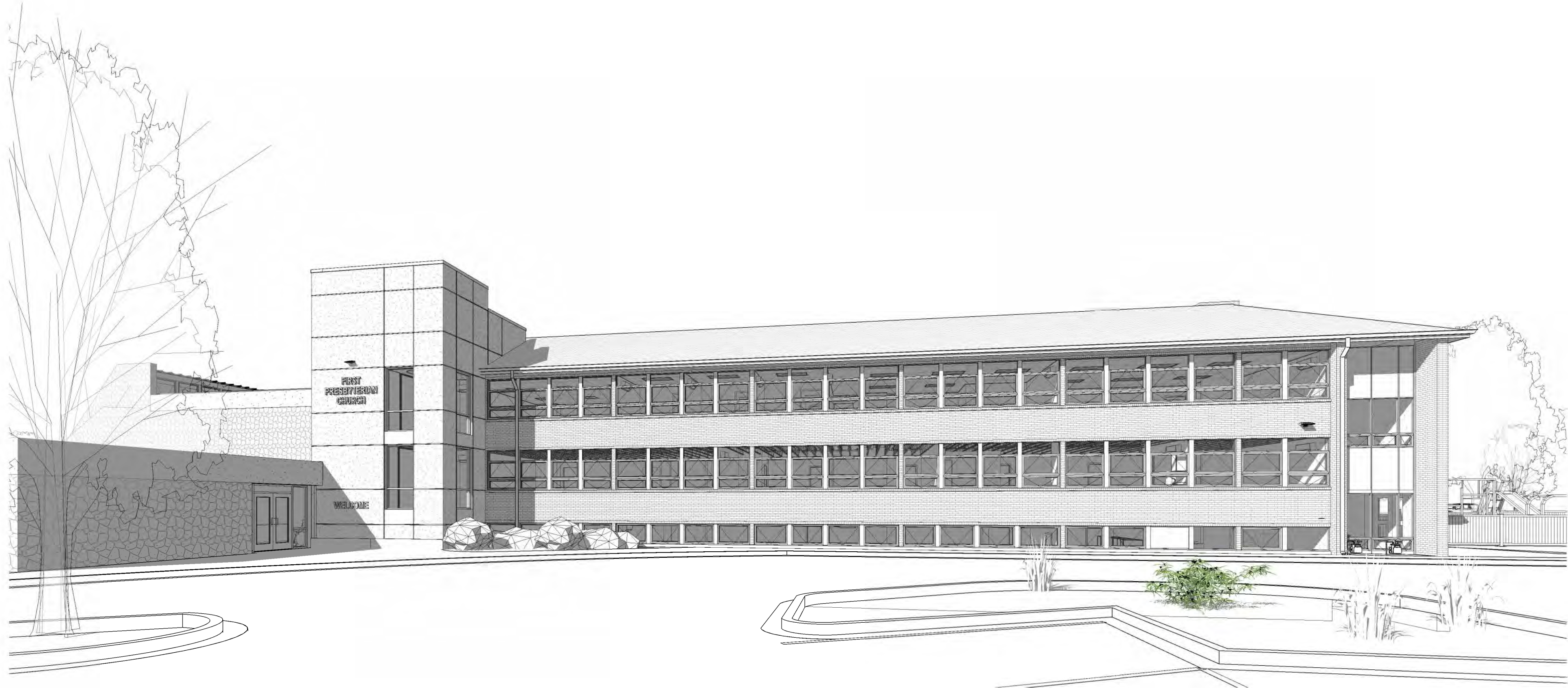
Inspections - Cutoff time for scheduling or canceling next day inspections is 11 pm

4. Use the Action drop-down to 'download' all APPROVED documents (there may be multiple pages containing approved documents. Use the navigation arrows at the bottom of the screen)

File Name	Permit Type	Document Type	File Size	Document Status	Status Date	Action
Letter - 700 Remington St 2 - v1.pdf	Residential New Single Family Detached	Letters	23.55 MB	Review Complete	12/17/2019	Actions
APPROVED - Letter - 700 Remington St 2.pdf	Residential New Single Family Detached	Letters	24.14 MB	Approved	12/17/2019	Actions
APPROVED - Plans - 700 Remington St 2 .pdf	Residential New Single Family Detached	Plans	48.28 MB	Approved	12/17/2019	Actions
Plans - 700 Remington St 2 - v3.pdf	Residential New Single Family Detached	Plans	46.51 MB	Review Complete	12/17/2019	Actions
Eng Docs - 700 Remington St 2 - v1.pdf	Residential New Single Family Detached	Reports/Supplemental Info	46.27 KB	Review Complete	12/17/2019	Actions

< Prev 1 2 3 Next >

Note: You must **log in** to view and download plans. All text will appear in light blue when successfully logged in.



FIRST PRESBYTERIAN CHURCH -
EDUCATION WING RENOVATION

ISSUED FOR PERMIT

ABBREVIATIONS									
#	POUND(S) or NUMBER	FOUND	FOUNDATION	PL	PLATE				
&	AND	FP	FIREPROOF(ING)	PLAM	PLASTIC LAMINATE				
+/-	PLUS OR MINUS	FPMB	FROST PROOF HOSE BIB	PLYWD	PLYWOOD				
<	ANGLE OR LESS THAN	FRT	FIRE RETARDANT TREATED	POLY	POLYETHYLENE				
>	GREATER THAN	FT	FOOT OR FEET	POLYSO	POLYSOCYANURATE				
@	AT	FTG	FOOTING	PAIR	PAIR				
		FURB	FURRING	PREFINA	PREFINISHED				
ACT	ACOUSTICAL CEILING TILE	GA	GAUGE	PT	PRESERVATIVE TREATED OR				
ADJ	ADJACENT or ADJUSTABLE	GA	GYPSUM ASSOCIATION	PTD	PAINTED				
AFF	ABOVE FINISH	GALV	GALVANIZED	PVC	POLYVINYL CHLORIDE				
ALT	ALTERNATE	GR	GRAB BAR	QT	QUARRY TILE				
ALUM	ALUMINUM	GRB	GREEN BUILDING CERTIFICATION						
ANSI	AMERICAN NATIONAL STANDARDS	GBCI	INSTITUTE						
ARCH	ARCHITECTURAL OR ARCHITECT	GC	GENERAL CONTRACTOR	R	RISER OR RADIUS				
ASHRAE	AMERICAN SOCIETY OF HEATING	GEOTECH	GARBAGE DISPOSAL	R	R-VALUE				
	REPRISATION AND AIR	GI	GEOTECHNICAL	R&S	ROD AND SHELF				
	CONDITIONING ENGINEERS	GL	GALVANIZED IRON	RS	RUBBER BASE				
AUTO	AUTOMATIC	GL	GLASS or GLAZING	RCP	REFLECTED CEILING PLAN				
AWB	AIR AND WEATHER BARRIER	GLU LAM	GLUE LAMINATED	RD	ROOF DRAIN				
		GND	GROUND	RE or REF	REFER TO or REFERENCE				
BD	BOARD	GR	GRADE	RECD	RECESSED				
BET	BETWEEN	GRB	GYPSUM WALLBOARD	RECT	RECTANGULAR				
BH	BULKHEAD	GYP	GYPSUM	REF	REFRIGERATOR				
BA	BRICK INSTITUTE OF AMERICA			RENF	REINFORCED				
BIT	BITUMINOUS	HB	HOSE BIB	RENO	RESILIENT				
BLDG	BUILDING	HC	HOLLOW CORE or HANDICAPPED	RFS	ROOM FINISH SCHEDULE				
BH	BEAM OR BENCH MARK	HDO	HIGH DENSITY OVERLAY	RM	ROOM				
BO	BOTTOM OF	HW	HARDWARE	RO	ROUGH OPENING				
BOT	BOTTOM	HST	HEIGHT	RTU	ROOF TOP UNIT				
BR	BEARING	INSUL	INSULATION OR INSULATED	RUB	RUBBER				
BRG	BEARING	INT	INTERIOR						
BSMT	BASEMENT	IPC	INTERNATIONAL PLUMBING CODE	S	SOUTH				
		JAN	JANITOR	S	SOLID CORE or SOLDIER COURSE				
CAB	CABINET	JANITORS CLOSET		SCHED	SCHEDULE				
CBU	CEMENTITIOUS BACKER BOARD	JB	JOB	SECT	SECTION				
CG	CORNER GUARD	IECC	INTERNATIONAL BUILDING	SECT	SECTION				
CJ	CONTROL JOINT	INT	INTERNATIONAL ENERGY	SF	SQUARE FEET OR STOREFRONT				
CL	CENTRIFUGAL OR CLOSET	IN	INCH	SH	SH				
CLG	CEILING	INCL	INCLUDING	SHGC	SHEET				
CLO	CLOSET	INSUL	INSULATION OR INSULATED	SH	SHEET				
CLR	CLEAR	INT	INTERIOR	SM	SHEETMETAL AND AIR				
CM	CENTMETER	IPC	INTERNATIONAL PLUMBING CODE	SMACNA	ASSOCIATION				
CMU	CONCRETE MASONRY UNIT			SOG	SLAB ON GRADE				
COL	COLUMN	JT	JOINT	SPCC	SPECIFICATION(S)				
CONC	CONCRETE	KITCH	KITCHEN	SPED	SPECIFIED				
CONN	CONNECTION	KPL	KICK PLATE	SS or S/S	STAINLESS STEEL				
CONSTR	CONSTRUCTION	LAB	LABORATORY	STA	STATION				
CONTIN	CONTINUOUS	LAM	LAMINATE	STD	STANDARD				
CORR	CORROD	LAV	LAVATORY	STL	STEEL				
CPT	CARPET	LEAD	LEADERSHIP IN ENERGY	STOR	STORAGE				
CT	CERAMIC TILE	LEAD	EFFICIENT DESIGN	STR	STRUCTURE or STRUCTURAL				
CTB	CEMENTITIOUS TILE BACKER	LS	LANDSCAPE	SUB	SUBCONTRACTOR				
CTR	CENTER OR COUNTER	LSL	LANDSCAPED STAND LUMBER	SUBS	SUBSTITUTION				
CTRTP	COUNTER TOP	LVL	LAMINATED VENEER LUMBER	SUP	SUPPLEMENTED				
		LW	LIGHT WEIGHT	SV	SHEET VINYL				
DBL	DOUBLE	M	MAN or METER	SYN	SYNTHETICAL				
DEMO	DEMOLISH or DEMOLITION	MAS	MASONRY	SYS	SYSTEM				
DEPT	DEPARTMENT	MATL	MATERIAL	T or TLT	TILE				
DET	DETAIL	MAX	MAXIMUM	T&G	TONGUE AND GROOVE				
DF	DRINKING FOUNTAIN	MCM	METAL BUILDING MANUFACTURER	T&G	TONGUE AND GROOVE				
DIA	DIAMETER	MDO	MEDIUM DENSITY OVERLAY	T&G	TONGUE AND GROOVE				
DM	DIMENSION	MOP	MEDIUM DENSITY	T&G	TONGUE AND GROOVE				
DISP	DISPENSER	MECH	MECHANICAL	T&G	TONGUE AND GROOVE				
DN	DOWN	MFR	MANUFACTURER	T&G	TONGUE AND GROOVE				
DR	DOOR	MN	MINIMUM OR MINUTE	T&G	TONGUE AND GROOVE				
DS	DOWNSPOUT	MR	MIRROR	T&G	TONGUE AND GROOVE				
DTL	DETAIL	MSC	MISCELLANEOUS	T&G	TONGUE AND GROOVE				
DW	DRAWING	MM	MILMETER	T&G	TONGUE AND GROOVE				
		MOP	MASONRY OPENING (NOMINAL)	T&G	TONGUE AND GROOVE				
(E)	EXISTING	MPH	MILES PER HOUR	T&G	TONGUE AND GROOVE				
EA	EACH	MR	MOISTURE RESISTANT	T&G	TONGUE AND GROOVE				
EJ	EXPANSION JOINT	MTD	MOUNTED	T&G	TONGUE AND GROOVE				
ELEC	ELECTRICAL	MTL	METAL	T&G	TONGUE AND GROOVE				
ELEV	ELEVATOR OR ELEVATION	MMET	MONOMER VAPOR EMISSIVITY	T&G	TONGUE AND GROOVE				
EMER	EMERGENCY	N	NORTH	T&G	TONGUE AND GROOVE				
ENCL	ENCLOSURE	NC	NOT IN CONTRACT	T&G	TONGUE AND GROOVE				
ENG	ENGINEER	NO or #	NUMBER	T&G	TONGUE AND GROOVE				
EPDM	ETHYLENE PROPYLENE DIENE	NOM	NOMINAL	T&G	TONGUE AND GROOVE				
	MONOMER	NTS	NOT TO SCALE	T&G	TONGUE AND GROOVE				
EQ	EQUAL	O	OUT TO OUT (DIMENSION)	T&G	TONGUE AND GROOVE				
EQUIP	EQUIPMENT	OC	ON CENTER	T&G	TONGUE AND GROOVE				
EW	ELECTRIC WATER COOLER	OD	OUTSIDE DIAMETER (DIM.)	T&G	TONGUE AND GROOVE				
EXH	EXHAUST	OF	OVERFLOW DRAIN	T&G	TONGUE AND GROOVE				
EXIST	EXISTING	OF	OWNER FURNISHED CONTRACTOR	T&G	TONGUE AND GROOVE				
EXP	EXPANSION	OFF	OFFICE	T&G	TONGUE AND GROOVE				
EXT	EXTERIOR	OP	OPPOSITE HAND	T&G	TONGUE AND GROOVE				
		OP	OPENING	T&G	TONGUE AND GROOVE				
FA	FIRE ALARM	OPP	OPPOSITE	T&G	TONGUE AND GROOVE				
FACP	FIRE ALARM CONTROL PANEL	OSB	ORIENTED STRAND BOARD	T&G	TONGUE AND GROOVE				
FAP	FIRE ALARM PANEL	OTS	OPEN TO STRUCTURE	T&G	TONGUE AND GROOVE				
FBS	FULL BUILDING SECTION	PART	PARTITION	T&G	TONGUE AND GROOVE				
FD	FLOOR DRAIN	PERM	PERIMETER	T&G	TONGUE AND GROOVE				
FDC	FIRE DEPARTMENT CONNECTION			T&G	TONGUE AND GROOVE				
FDN	FOUNDATION			T&G	TONGUE AND GROOVE				
FE	FIRE EXTINGUISHER			T&G	TONGUE AND GROOVE				
FEC	FIRE EXTINGUISHER CABINET			T&G	TONGUE AND GROOVE				
FG	FIBERGLASS			T&G	TONGUE AND GROOVE				
FAC	FIRE HOSE CABINET			T&G	TONGUE AND GROOVE				
FIN	FINISHED			T&G	TONGUE AND GROOVE				
FIXT	FIXTURE			T&G	TONGUE AND GROOVE				
FLR	FLOOR			T&G	TONGUE AND GROOVE				
FLUOR	FLUORESCENT			T&G	TONGUE AND GROOVE				
FO	FACE OF CONCRETE			T&G	TONGUE AND GROOVE				
FOD	FACE OF STUDS			T&G	TONGUE AND GROOVE				
FOS				T&G	TONGUE AND GROOVE				
NOTE: SEE LEGENDS, DOOR SCHEDULE, ROOM FINISH SCHEDULE, AND CONSULTANTS' DRAWINGS FOR ADDITIONAL ABBREVIATIONS.									

DRAFTING SYMBOLS									
DRAWING NUMBER	1	FLOOR PLAN	SCALE: 3/4"=1'-0"	DRAWING INDICATOR					
DRAWING NUMBER	1	BUILDING SECTION	MODIFIER	DRAWING NUMBER	1	WALL SECTION OR DETAIL	MODIFIER		
DRAWING NUMBER	1	ELEVATION TAG	SHEET NUMBER	DRAWING NUMBER	101	DOOR TAG (SEE DOOR SCHEDULE)			
DRAWING NUMBER	1	COLUMN GRIDS		DRAWING NUMBER	1	WINDOW OR FRAME TAG (SEE WINDOW OR FRAME TYPES)			
DRAWING NUMBER	1	CEILING TAG ON RCP	CEILING TYPE (SEE RCP NOTES)	DRAWING NUMBER	1	SYSTEM TAG (SEE SYSTEMS NOTES FOR DESCRIPTION)			
DRAWING NUMBER	1	CEILING TAG ON RCP	CEILING HEIGHT ABOVE FLOOR	DRAWING NUMBER	1	TOILET ACCESSORY TAG (SEE TOILET ACCESSORIES SCHEDULE)			
DRAWING NUMBER	1	CEILING TAG ON RCP	CEILING TAG ON RCP	DRAWING NUMBER	1	ROOM NAME			
DRAWING NUMBER	1	CEILING TAG ON RCP	CEILING TAG ON RCP	DRAWING NUMBER	1	ROOM TAG			
DRAWING NUMBER	1	CEILING TAG ON RCP	CEILING TAG ON RCP	DRAWING NUMBER	1	SHEET NOTES (SEE LEGEND ON SHEET)			
DRAWING NUMBER	1	CEILING TAG ON RCP	CEILING TAG ON RCP	DRAWING NUMBER	1	PARTITION TAG (SEE INTERIOR PARTITION TYPES)			
MATERIALS LEGEND									
BATT INSULATION		PLYWOOD OR OSB		BRICK		STONE OR SYNTHETIC STONE		CONCRETE	
CONCRETE MASONRY		WALL OR PARTITION		EARTH		WOOD FINISH LUMBER		GRAVEL	
GYPSON BOARD		WOOD DIMENSION LUMBER		MORTAR OR STUCCO		WOOD BLOCKING			

PROJECT DIRECTORY									
FIRST PRESBYTERIAN CHURCH	OWNER								
532 SOUTH COLLEGE AVE. FORT COLLINS, CO 80521 CONTACT: DAVID CAMPBELL WALT SCHUCHMANN									
VFLA ARCHITECTS, INC.	ARCHITECT								
419 CANYON AVE., SUITE 200 FORT COLLINS, CO 80521 (970) 224-1191 CONTACT: ANDY GOLDMAN andy@vfla.com									
RIPLEY DESIGN	LANDSCAPE								
236 LINDEN STREET, UNIT A FORT COLLINS, CO 80524 (970) 224-5828 CONTACT: TENAE BEANE									
RAKER RHODES ENGINEERING	STRUCTURAL ENGINEER								
236 LINDEN STREET, UNIT B FORT COLLINS, CO 80524 (970) 219-6280 CONTACT: NICK DECKER ndecker@rakerhodes.com									
INTEGRATED MEP, LLC	MECHANICAL ENGINEER								
320 MAPLE STREET, SUITE 110 FORT COLLINS, CO 80521 (970) 556-0570 CONTACT: KYLE LUCAS kylel@int-mech.com									
APS INC. ELECTRICAL ENGINEERS	ELECTRICAL								
3135 LAMINAR COURT TIMNATH, CO 80547 (303) 287-8091 CONTACT: CHUCK POLSON chuck@apsinc.biz									
VICINITY MAP									

PROJECT INFORMATION

PROJECT DESCRIPTION:
THE PROJECT CONSISTS OF AN ELEVATOR TOWER ADDITION ON THE NORTHWEST CORNER OF THE EDUCATION WING AND INTERIOR IMPROVEMENTS IN THE EDUCATION WING INCLUDING: REMOVING EXISTING ASBESTOS, ADDING NFPA 13 FIRE SPRINKLERS, HVAC IMPROVEMENTS, ADDING ACCESSIBLE SINGLE USER RESTROOMS, AND NEW INTERIOR FINISHES.

PROJECT NOTES

1. THE GC IS RESPONSIBLE FOR OBTAINING ALL PERMITS, PAYMENT OF ALL FEES AND SUBMITTING ALL APPLICATIONS ASSOCIATED WITH THE PROJECT CONSTRUCTION PER THE AHJ. OWNER WILL PAY PERMIT FEES DIRECTLY.

2. UPON COMPLETION OF PROJECT, GC SHALL OBTAIN ALL FINAL INSPECTIONS AS REQUIRED BY LOCAL JURISDICTIONS AND FURNISH ARCHITECT / OWNER WITH EVIDENCE OF ALL SUCH INSPECTIONS AND CERTIFICATES OF OCCUPANCY.

3. ALL MEANS OF EGRESS AND FIRE PROTECTION SHALL BE MAINTAINED AT ALL TIMES AND ANY SHUT DOWN OF LIFE SAFETY OR BUILDING SYSTEMS SHALL BE APPROVED AND COORDINATED IN ADVANCE WITH THE ARCHITECT, OWNER AND LOCAL BUILDING DEPARTMENT.

4. VENDOR OR OWNER FURNISHED AND INSTALLED ITEMS AND SYSTEMS: DESIGN/BUILD VENDORS CONTRACTED DIRECTLY TO THE OWNER SHALL DESIGN AND INSTALL THE FOLLOWING SYSTEMS WHICH ARE NOT INCLUDED IN THE CONTRACT FOR CONSTRUCTION BETWEEN THE GENERAL CONTRACTOR AND THE OWNER. THE G.C. SHALL, HOWEVER, COORDINATE WITH THESE VENDORS TO INCLUDE THEIR INSTALLATIONS WITHIN THE OVERALL CONSTRUCTION SCHEDULE AND PROVIDE THEM ACCESS TO THE SITE AS NEEDED. NOTE THAT EMPTY BACK BOXES AND EMPTY CONDUIT AS SHOWN ON THE ELECTRICAL DRAWINGS TO ACCOMMODATE VENDOR-FURNISHED LOW VOLTAGE SYSTEMS IS INCLUDED IN THE CONTRACT FOR CONSTRUCTION:

- COMMUNICATIONS PHONE, DATA AND CABLE OR SATELLITE TV SYSTEMS INCLUDING ALL WIRING AND DEVICES
- AUDIO VISUAL SYSTEMS INCLUDING ALL WIRING AND DEVICES
- NON-CODE REQUIRED, WAYFINDING, AND BUILDING MOUNTED SIGNAGE
- PROCUREMENT AND INSTALLATION
- SECURITY SYSTEMS INCLUDING ALL WIRING AND DEVICES
- OTHER VENDOR OR OWNER FURNISHED AND INSTALLED ITEMS AND SYSTEMS FOR THE PROJECT.

5. SIGNAGE:

- ALL INTERIOR AND EXTERIOR CODE REQUIRED SIGNAGE SHALL BE INSTALLED IN CONTRACT BY THE GENERAL CONTRACTOR. TESTS MAY BE CONTRACTED WITH THE COORDINATE SCHEDULING OF THE SIGNAGE INSTALLATION TO ENSURE THAT CODE-REQUIRED SIGNAGE IS IN PLACE BEFORE C.O. INSPECTION. SEE SHEET G0.4 FOR A LIST OF CODE REQUIRED SIGNAGE
- NON-CODE REQUIRED, WAYFINDING, AND BUILDING MOUNTED SIGNAGE SHALL BE DESIGNED AND INSTALLED BY OTHERS.

6. ALL DIMENSIONS ARE FROM FACE OF STUD OR EXISTING FINISHED FACE OF WALL, UNLESS NOTED OTHERWISE. DO NOT SCALE THE DRAWINGS. GC IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES, CONFLICTS OR DEVIATIONS REQUIRED IMMEDIATELY UPON DISCOVERY.

7. TESTING: QUALITY CONTROL TESTING SHALL BE CONDUCTED BY AN INDEPENDENT TESTING AGENCY EMPLOYED BY THE OWNER. AT A MINIMUM THE FOLLOWING TESTS SHALL BE CONDUCTED:

- CONCRETE SLAB WATER VAPOR EMISSIVITY MVER TEST (LBS OF WATER/24 HRS/1000 S.F.)
- CONCRETE SLAB WATER VAPOR EMISSIVITY RELATIVE HUMIDITY TEST (% RH)
- CONCRETE SLAB PH
- SPECIAL INSPECTIONS AS REQUIRED BY THE STRUCTURAL ENGINEER'S NOTES, BY THE BUILDING PERMIT, OR OTHERWISE REQUIRED BY CODE.

8. DRYING OF CONCRETE SLABS:

THE GC SHALL PROVIDE AN ENVIRONMENT WITHIN THE BUILDING DURING CONSTRUCTION TO PROMOTE THE DRYING OF CONCRETE SLABS TO ACCEPTABLE LEVELS BEFORE ADHERED FLOORING MATERIALS ARE TO BE INSTALLED. OPTIMUM DRYING CONDITIONS ARE A MINIMUM AIR TEMPERATURE OF 70 DEGREES F. AND A MAXIMUM RH OF 30% MAINTAINED 24/7. PROPANE FIRED HEATERS AND NEW, PERMANENT HVAC EQUIPMENT SHALL NOT BE USED TO PROVIDE TEMPORARY HEAT DURING CONSTRUCTION.

9. AIR BARRIER:

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF A CONTINUOUS AIR BARRIER AS PART OF THE THERMAL ENVELOPE OF THE BUILDING AT THE ELEVATOR TOWER ADDITION. AT THE COMPLETION OF THE THERMAL ENVELOPE, THE AIR BARRIER SHALL BE TESTED PER THE REQUIREMENTS OF THE IECC AND/OR LOCAL AMENDMENTS. TESTING SHALL BE DONE BY A QUALIFIED SPECIALTY SUBCONTRACTOR UNDER CONTRACT TO THE GENERAL CONTRACTOR. IF THE AIR BARRIER FAILS THE TESTING, THE GC SHALL BE RESPONSIBLE FOR LOCATING AND CORRECTING THE LEAKS AND RETESTING THE AIR BARRIER UNTIL IT PASSES THE TESTING. SEE SHEET 4.4 FOR MORE INFORMATION

10. OWNER STOCK OF MATERIALS:

THE G.C. SHALL PROVIDE THE OWNER WITH EXTRA FINISH MATERIALS FOR MAINTENANCE/REPLACEMENT PURPOSES. FOR EACH, PROVIDE A MINIMUM OF 1% OF THE AMOUNT IF INSTALLED MATERIAL OR ONE FULL PACKAGE OF THE MATERIAL AS DELIVERED (WHICHEVER IS GREATER) FOR EACH COLOR/STYLE OF MATERIAL USED. MATERIALS SHALL INCLUDE, BUT NOT BE LIMITED TO:

- ACOUSTIC CEILING TILE
- RESILIENT FLOORING MATERIALS (LVT, SHEET VINYL, RUBBER BLOC, ETC) AND THE ADHESIVES USED FOR EACH
- CARPETING
- PAINT (1 UNOPENED GALLON OF EACH COLOR FOR EACH TYPE OF PAINT USED)
- CERAMIC TILE

DESIGN/BUILD SYSTEMS:
THE FOLLOWING SYSTEMS SHALL BE FURNISHED AND INSTALLED IN CONTRACT BY DESIGN/BUILD SUBCONTRACTORS UNDER THE G.C.

- FIRE SPRINKLERS (TYPE 13)
- FIRE ALARM
- EMERGENCY RESPONDER RADIO AMPLIFICATION SYSTEM:

DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY THOSE DESIGN-BUILD SUBCONTRACTORS AND SUBMITTED DIRECTLY TO THE LOCAL FIRE DEPARTMENT AS DEFERRED SUBMITTALS:

- LANDSCAPING IRRIGATION SYSTEM:

DRAWINGS SHALL BE PREPARED BY THE DESIGN-BUILD SUBCONTRACTOR AND SUBMITTED FOR REVIEW TO THE OWNER, ARCHITECT AND LANDSCAPE ARCHITECT.

PRICING ALTERNATES:

1. VAPOR EMISSIVITY AND PH MITIGATION FOR CONCRETE SLABS ON GRADE AND ON DECK (SHALL BE USED AT OWNERS OPTION FOR SLABS WHICH FAIL VAPOR AND PH TESTING) PROVIDE BOTH A TOTAL COST FOR ALL CONCRETE SLABS AND A UNIT COST PER S.F. FOR THIS TREATMENT:

- BEAD BLASTING
- APPLICATION OF EPOXY-BASED SEALER (KOESTER VAP 1 2000 SYSTEM WITH VAP 1 PRIMER LAYER PRO-E & VAP 1 PRO-FINISH TROWELABLE UNDERLAYMENT OR CONCRETE SUBSTITUTION)
- CEMENTITIOUS COATING AS RECOMMENDED BY SEALER MFR. (ARDEX K-15 OR APPROVED SUBSTITUTION)

2. PH ONLY MITIGATION FOR CONCRETE SLABS ON GRADE AND ON DECK (SHALL BE USED AT OWNERS OPTION FOR SLABS WHICH PASS VAPOR TESTING BUT FAIL PH TESTING). PROVIDE BOTH A TOTAL COST FOR ALL CONCRETE SLABS AND A UNIT COST PER S.F. FOR THIS TREATMENT: MILD CARBONIC ACID SUCH AS CLUB SODA IS AN ACCEPTABLE PH NEUTRALIZER.

3. EMERGENCY RADIO AMPLIFICATION SYSTEM:

THE BASE BID SHALL INCLUDE ONLY THE INITIAL TESTING AFTER THE BUILDING SHELL IS COMPLETE TO DETERMINE IF THE SYSTEM IS NECESSARY. THE ALTERNATE, WHICH MAY BE USED AT THE DISCRETION OF THE OWNER, WILL INCLUDE THE INSTALLATION OF THE COMPLETE SYSTEM AND CONDUCT THE FINAL TESTING TO DEMONSTRATE OPERATION OF THE SYSTEM TO THE LOCAL FIRE DEPARTMENT'S SATISFACTION.

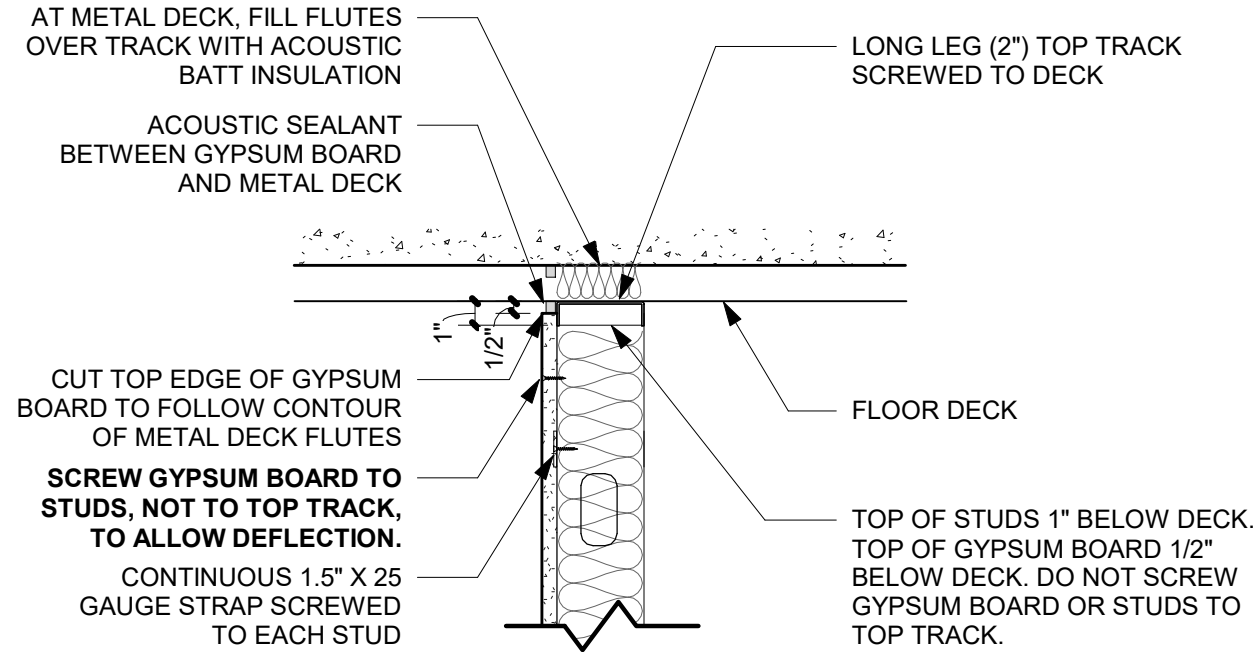
4. BREAK OUT CONSTRUCTION PRICING INTO THE FOLLOWING CATEGORIES:

- A. ELEVATOR ADDITION
- B. EDUCATION WING RENOVATION
- C. OFFICES 305A, 305B, AND 305C

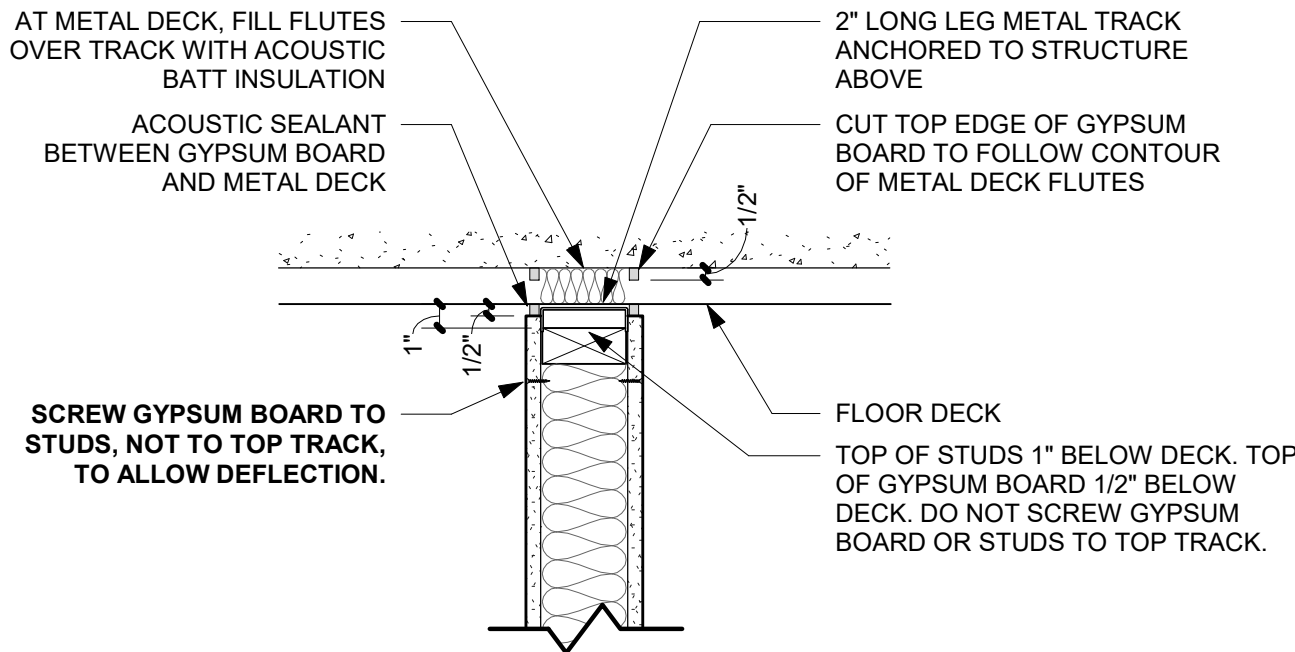
OUTLINE SPECIFICATIONS			
DIVISION 01 GENERAL REQUIREMENTS: PROJECT SUMMARY - THE PROJECT CONSISTS OF AN ELEVATOR TOWER ADDITION ON THE NORTHWEST CORNER OF THE EDUCATION WING AND INTERIOR IMPROVEMENTS IN THE EDUCATION WING INCLUDING: REMOVING EXISTING ASBESTOS, ADDING NFPA 13 FIRE SPRINKLERS, HVAC IMPROVEMENTS, ADDING ACCESSIBLE SINGLE USER RESTROOMS, AND NEW INTERIOR FINISHES. BUILDING SQUARE FOOTAGE - THE EDUCATION WING IS APPROXIMATELY 7,300 SF PER FLOOR FOR A TOTAL OF 21,900 SF. - THE PROPOSED ADDITION WILL ADD APPROXIMATELY 200 SQ. FT. AT THE FIRST FLOOR AND 115 SQ. FT ON THE UPPER TWO FLOORS. BASIC CONSTRUCTION/SCOPE - THE CHURCH WORSHIP SPACES AND ADMIN OFFICES WILL REMAIN OPEN DURING CONSTRUCTION AND WILL BE STAGED ACCORDINGLY. - THIS IS NOT A LEED PROJECT. GENERAL CONTRACTOR - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COMPLETION OF ALL WORK DEFINED BY THE CONTRACT. BOTH THE DRAWINGS AND SPECIFICATIONS ISSUED BY THE ARCHITECT ARE CONTRACT DOCUMENTS AND PART OF THE CONTRACT. A COPY OF THE CONTRACT DOCUMENTS SHALL BE KEPT AT THE JOB SITE AT ALL TIMES, AND ANY CHANGES MUST BE NOTED THEREON BY THE GENERAL CONTRACTOR AT THE TIME ANY CHANGE OR DEVIATION IS PERFORMED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERING AN "AS BUILT" SET OF RECORD DRAWINGS TO THE OWNER AT THE END OF THE PROJECT DOCUMENTING ALL CHANGES DURING THE COURSE OF CONSTRUCTION. - THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AS THEY RELATE TO THE WORK AND SHALL ADVISE THE OWNER AND ARCHITECT OF ANY CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THE ACCURACY OF FIELD MEASUREMENTS AND EXISTING CONDITIONS. - THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETION OF THE WORK AS DEFINED IN THE CONTRACT DOCUMENTS. CONTRACT - NO BID BONDS OR MATERIALS & PERFORMANCE BONDS WILL BE REQUIRED. THE OWNER IS A TAX EXEMPT ORGANIZATION. GC'S SHALL EXCLUDE CITY SALES AND USE TAX, AS WELL AS ALL OTHER STATE TAXES. THE OWNER WILL PAY CITY PERMIT FEES DIRECTLY. ALLOWANCES INCLUDE THE FOLLOWING ALLOWANCES: - ALLOWANCES AS NOTED IN DIVISIONS 6 AND 9 PRICING ALTERNATES - VAPOR EMISSIVITY AND PH MITIGATION FOR CONCRETE SLABS ON GRADE AND ON DECK (SHALL BE USED AT OWNER'S OPTION FOR SLABS WHICH FAIL VAPOR AND PH TESTING). PROVIDE BOTH A TOTAL COST FOR ALL CONCRETE SLABS AND A UNIT COST PER S.F. FOR THIS TREATMENT: - BEAD BLASTING - APPLICATION OF EPOXY-BASED SEALER (KOESTER VAP 12000 SYSTEM WITH VAP 1 PRIMER LEVEL PRO-E & VAP 1 PRO-FINISH) (TROWELABLE UNDERLAYMENT OR APPROVED SUBSTITUTION) - CEMENTITIOUS COATING AS RECOMMENDED BY SEALER MFR. (ARDEX K-15 OR APPROVED SUBSTITUTION) - PH ONLY MITIGATION FOR CONCRETE SLABS ON GRADE AND ON DECK (SHALL BE USED AT OWNER'S OPTION FOR SLABS WHICH PASS VAPOR TESTING BUT FAIL PH TESTING). PROVIDE BOTH A TOTAL COST FOR ALL CONCRETE SLABS AND A UNIT COST PER S.F. FOR THIS TREATMENT: MILD CARBONIC ACID SUCH AS CLUB SODA IS AN ACCEPTABLE PH NEUTRALIZER. - EMERGENCY RADIO AMPLIFICATION SYSTEM: - THE BASE BID SHALL INCLUDE ONLY THE INITIAL TESTING AFTER THE BUILDING SHELL IS COMPLETE TO DETERMINE IF THE SYSTEM IS NECESSARY. THE ALTERNATE, WHICH MAY BE ACCEPTED IF THE BUILDING FAILS THE INITIAL TESTING, WOULD INSTALL THE COMPLETE SYSTEM AND CONDUCT THE FINAL TESTING TO DEMONSTRATE OPERATION OF THE SYSTEM TO THE LOCAL FIRE DEPARTMENT'S SATISFACTION. - BREAK OUT CONSTRUCTION PRICING INTO THE FOLLOWING CATEGORIES: - ELEVATOR ADDITION - EDUCATION WING RENOVATION - OFFICES 305A, 305B, AND 305C SUBMITTALS - VFLA SHALL REVIEW AND APPROVE, OR TAKE OTHER APPROPRIATE ACTION UPON, THE CONTRACTOR'S SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND OTHER ITEMS, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION SHOWN IN THE CONSTRUCTION DOCUMENTS. THIS REVIEW SHALL NOT INCLUDE REVIEW OF THE ACCURACY OR COMPLETENESS OF DETAILS, OF THE SUBMITTAL, SUCH AS QUANTITIES, DIMENSIONS, WEIGHTS OR GAUGES, FABRICATION PROCESSES, CONSTRUCTION MEANS OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES OR CONSTRUCTION SAFETY PRECAUTIONS, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE REVIEW OF A SUBMITTAL SHALL NOT INDICATE THAT THE REVIEWER HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. VFLA SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE ATTENTION OF VFLA IN WRITING BY THE CONTRACTOR. VFLA SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED. - THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL SUBMIT IN WRITING ANY REQUESTS TO MODIFY THE PLANS OR SPECIFICATIONS. - ALL SUBMITTALS AND SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, APPROVE, AND SUBMIT TO THE ARCHITECT, SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS REQUIRED BY THE CONTRACT DOCUMENTS AND ANY NECESSARY CORRECTIONS NOTED PRIOR TO SUBMISSION FOR ARCHITECT'S REVIEW. IN ADDITION, THE SUBMITTAL SHALL BE STAMPED WITH THE GENERAL CONTRACTOR'S REVIEW STAMP. - BY SUBMITTING SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS, THE CONTRACTOR REPRESENTS TO THE OWNER AND ARCHITECT THAT THE CONTRACTOR HAS (1) REVIEWED AND APPROVED THEM, (2) DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS, AND FIELD CONSTRUCTION CRITERIA RELATED TO CHECKED AND COORDINATED THE INFORMATION SHOWN IN THE CONSTRUCTION DOCUMENTS CONTAINED WITHIN SUCH SUBMITTALS WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS. - SUBMITTALS NOT REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR WILL BE RETURNED WITHOUT REVIEW BY THE ARCHITECT, AND MUST BE RESUBMITTED AFTER REVIEW BY THE GENERAL CONTRACTOR. - THE CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION, IN WRITING OR ON RESUBMITTED SHOP DRAWINGS, PRODUCT DATA, SAMPLES, OR SIMILAR SUBMITTALS, TO REVISIONS OTHER THAN THOSE REQUESTED BY THE ARCHITECT ON PREVIOUS SUBMITTALS. IN THE ABSENCE OF SUCH NOTICE, THE ARCHITECT'S APPROVAL OF A RESUBMISSION SHALL NOT APPLY TO SUCH REVISIONS. - SUBMIT SUBMITTALS TO THE DESIGN TEAM IN A TIMELY MANNER TO PERMIT TEN (10) WORKING DAYS FOR REVIEW SUBSTITUTIONS - MATERIALS SHALL BE PROVIDED AS SPECIFIED IN THE CONTRACT DOCUMENTS. NO SUBSTITUTIONS WILL BE ALLOWABLE UNLESS FORMALLY ACCEPTED BY THE ARCHITECT AND OWNER. FORMAL REQUESTS FOR SUBSTITUTIONS MAY BE SUBMITTED USING CSI FORM 150 FOR PRE-BID SUBSTITUTION REQUESTS AND CSI FORM 13-1A FOR SUBSTITUTION REQUESTS MADE AFTER BIDDING / DURING CONSTRUCTION. NOTE THAT THE ARCHITECT AND OWNER WILL REVIEW REQUESTS, BUT ARE NOT OBLIGATED TO ACCEPT THEM. IF REQUESTS ARE ACCEPTED, THEY WILL BE WITH THE PROVISIONS OF THE CONTRACTOR'S REPRESENTATION AS DESCRIBED HERE. BRIEFLY, THE CONTRACTOR'S REPRESENTATION REQUIRES THE GC (NOT THE ARCHITECT OR THE OWNER) TO ACCEPT FULL RESPONSIBILITY AND LIABILITY FOR ANY SUBSTITUTED MATERIALS. SUBSTITUTED MATERIALS MUST PROVIDE THE SAME WARRANTY AS THE ORIGINALLY SPECIFIED MATERIALS. NO ADDITIONAL COST TO THE OWNER WILL BE ALLOWABLE FOR SUBSTITUTED MATERIALS OR FOR ANY MODIFICATIONS REQUIRED BY THE USE OF THOSE MATERIALS. IF THE SUBSTITUTED MATERIALS DO NOT PERFORM AS REQUIRED FOR THE SPECIFIED MATERIALS, THEY WILL BE REPLACED BY THE GC AT NO ADDITIONAL COST TO THE OWNER. DESIGN/BUILD SUBCONTRACTORS - NFPA TYPE 13 SPRINKLERS WILL BE ADDED TO THE EDUCATION WING. THE FIRE SPRINKLER SYSTEM WILL BE DESIGNED AND INSTALLED BY A DESIGN-BUILD SUBCONTRACTOR CARRIED BY THE GC. THAT SUB WILL BE REQUIRED TO MAKE DEFERRED SUBMITTALS OF THE SPRINKLER DRAWINGS & CALCULATIONS TO THE LOCAL FIRE DEPARTMENT. - A FIRE ALARM SYSTEM WILL BE REQUIRED IN THE ADDITION AND EDUCATION WING PER CODE AND PER THE REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT. THE FIRE ALARM SYSTEM WILL BE DESIGNED AND INSTALLED BY A DESIGN-BUILD SUBCONTRACTOR CARRIED BY THE GC. - AN EMERGENCY RESPONDER RADIO AMPLIFICATION SYSTEM MAY BE REQUIRED IN THIS BUILDING. THE NEED FOR THE SYSTEM WILL BE DETERMINED BY TESTING ONCE THE BUILDING SHELL IS COMPLETE. SEE ALTERNATES. IF THE BUILDING FAILS THE TESTING, THE OWNER MAY, AT THEIR DISCRETION, DECIDE TO ACCEPT THE ALTERNATE, WHICH IS TO INSTALL THE SYSTEM AND PERFORM FINAL TESTING TO DEMONSTRATE TO FIRE DEPARTMENT'S SATISFACTION THAT THE SYSTEM IS FUNCTIONAL. THE EMERGENCY RADIO AMPLIFICATION SYSTEM WILL BE DESIGNED AND INSTALLED BY A DESIGN-BUILD SUBCONTRACTOR CARRIED BY THE GC. - LOW VOLTAGE SYSTEMS, INCLUDING SECURITY, AUDIO VISUAL, INTERCOM, PHONE/COM/DATA, CATV WILL BE DESIGN/BUILD BY VENDORS CONTRACTED DIRECTLY TO THE OWNER. HOWEVER, EMPTY BACK BOXES AND CONDUITS AS SHOWN ON THE ELECTRICAL POWER DRAWINGS AS NEEDED TO ACCOMMODATE THOSE SYSTEMS WILL BE REQUIRED TO BE INSTALLED AS PART OF THE BASE BID BY THE GC/ELECTRICAL SUB. BUT THE DESIGN OF THOSE SYSTEMS, THE FURNISHING AND INSTALLING OF THE LOW VOLTAGE WIRING AND THE INSTALLATION OF THE DEVICES FOR THOSE SYSTEMS SHALL BE BY THE VENDORS, KN UNLESS NOTED OTHERWISE ON THE ELECTRICAL DRAWINGS. THE GC WILL BE EXPECTED TO COORDINATE THE SCHEDULING FOR NIC VENDORS AND FACILITATE THEIR ACCESS TO THE PROJECT. PROJECT CLOSEOUT - AT THE COMPLETION OF THE PROJECT, THE GC SHALL PRESENT TO THE OWNER A FINAL PAY APPLICATION SHOWING A \$0 REMAINING BALANCE AND INCLUDE LIEN WAIVERS FROM THE GC AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS. - GC SHALL PROVIDE THE OWNER WITH COMPLETE OPERATIONS & MAINTENANCE (O&M) MANUALS IN BOTH HARD COPY AND ELECTRONIC FORMATS. INCLUDE MATERIALS PRODUCT DATA, COLOR SELECTIONS AND OPERATION & MAINTENANCE DATA FOR ALL SYSTEMS INCLUDED IN THE PROJECT. INCLUDE WARRANTIES FROM MANUFACTURERS, SUBCONTRACTORS AND THE GENERAL CONTRACTOR WITH WARRANTY FORMS COMPLETELY FILLED OUT AND SIGNED, STATING THE START AND EXPIRATION DATES. MANUFACTURER'S WARRANTIES SHALL BE FOR THE MANUFACTURER'S STANDARD DURATION FOR THE MATERIAL OR SYSTEM UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. SUBCONTRACTORS AND GC'S WORKMANSHIP WARRANTIES SHALL BE FOR ONE YEAR UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. ALL WARRANTIES SHALL BE NOTED AS STARTING ON THE DATE OF SUBSTANTIAL COMPLETION. - OWNER'S STOCK OF MATERIALS: GC SHALL PROVIDE THE OWNER WITH A SUPPLY OF REPLACEMENT FINISH MATERIALS MATCHING THE PRODUCTS INSTALLED. PROVIDE 1% OF THE QUANTITY OF MATERIALS INSTALLED UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. OWNER'S STOCK MATERIALS SHALL INCLUDE BUT ARE NOT LIMITED TO: - EACH COLOR AND TYPE OF PAINT IN LABELED, UNOPENED CANS - EACH TYPE AND COLOR OF FINISH FLOORING AND BASE MATERIAL - EACH TYPE AND SIZE OF ACOUSTIC CEILING TILE - EACH TYPE AND SIZE OF WALL COVERING - GC SHALL PROVIDE THE OWNER WITH A COPY OF DOCUMENTATION SHOWING COMPLIANCE WITH IECC AND OTHER LOCALLY REQUIRED ENERGY CODE REQUIREMENTS INCLUDING BUT NOT LIMITED TO: - COMCHECKS FOR MECHANICAL SYSTEMS AND LIGHTING - RECORDS OF TEST DATA FOR AIR BARRIER TESTING - WASTE MANAGEMENT PLAN & REPORTS DIVISION 2: EXISTING CONDITIONS - THE GC WILL BE REQUIRED TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS BEFORE SUBMITTING THEIR PROPOSALS. - THE PROPOSED ELEVATOR TOWER ADDITION REQUIRES EXCAVATION NEXT TO EXISTING BUILDING FOUNDATION AND FOOTERS. SEE STRUCTURAL DRAWINGS FOR SUPPORT REQUIREMENTS AT EXISTING FOUNDATIONS. DIVISION 3: CONCRETE - FOUNDATIONS WILL BE POURED IN PLACE CONCRETE WITH HELICAL PIERS AT PERIMETER WALLS PER STRUCTURAL ENGINEER'S CONSTRUCTION DOCUMENTS. THIS WILL BE USED AT THE NEW ELEVATOR TOWER. - NEW LANDINGS AT THE ELEVATOR TOWER WILL BE CONSTRUCTED. 1ST FLOOR WILL BE A 12" THICK REINFORCED CONCRETE MAT SLAB WITH BLINDSIDE SHEET WATERPROOFING APPLIED (SEE DIVISION 7). 2ND FLOOR WILL BE A COMPOSITE FLOOR STRUCTURE WITH CONCRETE SLAB OVER COMPOSITE METAL DECK WITH STEEL WIDE FLANGE BEAMS & JOISTS. - SLABS ON GRADE AND DECK SHALL HAVE A LOW WATER CEMENT RATIO OF 0.45 MAXIMUM. - CONCRETE MATERIAL SHALL BE 3000 PSI IN FOUNDATIONS, 4000 PSI IN SLABS ON GRADE AND EXTERIOR PAVING AND 3000 P.S.I. IN ALL OTHER CONCRETE APPLICATIONS UNLESS NOTED OTHERWISE BY STRUCTURAL ENGINEER'S DRAWINGS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER SHALL APPROVE FINAL CONCRETE DESIGN MIXES. - CONCRETE REINFORCING SHALL CONSIST OF DEFORMED NEW FILLET STEEL BARS CONFORMING TO ASTM A615, GRADE 60. - SEE STRUCTURAL ENGINEER'S DRAWINGS AND SPECS FOR CONCRETE REINFORCING AND ADDITIONAL CONCRETE REQUIREMENTS. 7-DAY WET CURE OR COVER CURE IS PREFERRED. CURING BY LIQUID CURING COMPOUND OR CURE/SEAL COMPOUND IS ALLOWED. - EXTERIOR CONCRETE PAVING & WALKS WILL BE INSTALLED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND CITY STANDARDS. MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL IS 5% AND THE MAXIMUM CROSS SLOPE IS 2%. LACKING GEOTECHNICAL OR CITY STANDARDS, CONCRETE FOR EXTERIOR PAVING & WALKS SHALL BE 4000 PSI COMPRESSIVE STRENGTH AND MIN. 6% AIR ENTRAINMENT +/- 1 1/8" AND FIBERMESH REINFORCING. - ALL CONCRETE WORK SHALL HAVE APPROPRIATE CONTROL JOINTS, EXPANSION JOINT MATERIAL, REINFORCING, ANCHOR BOLTS, AND IMBEDS TO COMPLETE THIS PORTION OF THE WORK. - THE CONTRACTOR SHALL PROVIDE ALL FORM WORK AND ACCESSORIES FOR ALL CAST-IN-PLACE CONCRETE INCLUDING CAST-IN-WATERSTOPS FOR THE JOINT BETWEEN THE ELEVATOR PIT WALLS AND FLOOR. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK". - THE GC WILL BE RESPONSIBLE FOR PROTECTING SLABS AND PROVIDING TEMPERATURE AND HUMIDITY LEVELS WITHIN THE BUILDING AS REQUIRED FOR PROPER DRYING OF THE CONCRETE SLABS BEFORE THE INSTALLATION OF ADHERED FLOORING MATERIALS. PROPER DRYING CONDITIONS AFTER THE BUILDING IS ENCLOSED ARE: RELATIVE HUMIDITY MAINTAINED AT A MINIMUM OF 30% AND RELATIVE HUMIDITY MAINTAINED 24/7. THE USE OF PROPANE FIRED HEATERS AND NEW, PERMANENT HVAC UNITS TO PROVIDE TEMPERATE HEATING WILL NOT BE ACCEPTABLE. - SLABS ON GRADE AND DECK SHALL BE TESTED AT REGULAR INTERVALS AFTER PLACEMENT AND SHORTLY BEFORE INSTALLATION OF ANY ADHERED FLOORING MATERIALS FOR WATER VAPOR EMISSIVITY USING BOYCE FLO-METER. IF FLO-METER INDICATES THAT THERE IS A PROBLEM WITH THE FLOOR, THE ENTIRE VALLEY SHALL BE LBS/24 HRS/1000 S.F. FOR WATER VAPOR AND PH 11 OR THE MAXIMUM VALUES ALLOWED BY THE MANUFACTURERS OF THE FLOORING MATERIALS AND THE ADHESIVES TO BE USED. TESTING SHALL BE DONE BY AN INDEPENDENT TESTING AGENCY EMPLOYED DIRECTLY BY THE OWNER. - IF THE SLABS FAIL THE TESTING, THE OWNER MAY DECIDE TO HAVE VAPOR AND/OR PH MITIGATION PRICED/DESIGNED/INSTALLED. SEE PRICING ALTERNATES. - SEE ATTACHED STRUCTURAL ENGINEER'S CONSTRUCTION DOCUMENTS FOR ADDITIONAL CONCRETE INFORMATION. DIVISION 4: MASONRY 8"x8"x16" CONCRETE MASONRY UNIT FULLY REINFORCED AND GROUTED AS REQUIRED TO PATCH AND REPAIR EXISTING WALLS DAMAGED DURING THIS SCOPE OF WORK. - MODULAR CLAY BRICKS AS REQUIRED TO PATCH AND REPAIR EXISTING WALLS DAMAGED DURING THIS SCOPE OF WORK. COLOR AND SIZE TO MATCH EXISTING. DIVISION 5: METALS - STRUCTURAL STEEL FRAMING: SEE ATTACHED STRUCTURAL ENGINEER'S CONSTRUCTION DOCUMENTS. - STRUCTURAL STEEL WIDE FLANGE (WF), TUBE (HSS), ANGLES (L) AND OTHER SHAPES PER STRUCTURAL DRAWINGS AND ARCHITECTURAL DETAILS. - OPEN WEB STEEL BAR JOISTS - STEEL DECKING - STRUCTURAL STEEL SHALL BE FACTORY PRIMED WITH FABRICATOR'S RED OR GREY PRIMER - METAL APPLICATIONS WILL INCLUDE ELEVATOR PIT ACCESS LADDERS, AND OTHER MISCELLANEOUS ITEMS. - COLD-FORMED METAL FRAMING. - EXTERIOR WALLS ARE INFILL METAL STUDS, GAUGE & SPACING PER STRUCTURAL. - CEE JOIST ROOF, FLOOR OR CEILING FRAMING DIVISION 6: WOOD, PLASTICS & COMPOSITES EXTERIOR - EXTERIOR WALL & SOFFIT SHEATHING: EXTERIOR GYP. SHEATHING AT EXTERIOR WALLS: DENSGLASS GOLD. 5/8" THICK AT ALL SOFFITS. 2 LAYERS 5/8" THICK TYPE "X" AT FIRE RATED WALLS. - PARAPET SHEATHING ON THE BACK SIDE OF THE PARAPET AND THE TOP OF THE CORNICE PARAPETS, 1/2" THICK, 1 LAYER 5/8" THICK TYPE "X" GLASS MAT GYP. BD. TO ACCEPT FULLY ADHERED MEMBRANE ROOFING. - ROUGH CARPENTRY WILL BE REQUIRED FOR MISCELLANEOUS BLOCKING WITHIN METAL STUD WALLS AND PARTITIONS, PRESERVATIVE TREATED WOOD BLOCKING AT THE TOP OF PARAPET WALLS. INTERIOR - ROUGH CARPENTRY: - WOOD FRAMING PER STRUCTURAL DRAWINGS: 2X DIMENSION LUMBER STUD WALL FRAMING. PRESERVATIVE TREATED SILL PLATES AND OTHER LOCATIONS AS NOTED ON DRAWINGS. - PROVIDE SOLID WOOD OR PLYWOOD BACKING IN WALLS BEHIND TOILET ACCESSORIES, HANDRAILS, TELEVISIONS AND ALL OTHER WALL MOUNTED ITEMS. IT SHALL BE THE GC'S RESPONSIBILITY TO COORDINATE THE LOCATION AND EXTENT OF PLYWOOD BACKING AND/OR 2X BLOCKING. - INTERIOR WOODWORK/MILLWORK/FINISH CARPENTRY: - PROVIDE MATERIALS THAT COMPLY WITH THE REQUIREMENTS OF THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) FOR EACH TYPE OF WOODWORK AND QUALITY GRADE INDICATED: - LAMINATE CLAD CABINETS (PLASTIC LAMINATE COVERED CASEWORK) - CUSTOM OVERLAY CABINETRY CONSTRUCTION - PLASTIC LAMINATE OVER PARTICLE BOARD CORE - MELAMINE INTERIORS - SHELVING: MELAMINE ADJUSTABLE SHELVES WITH K&V BRACKETS & STANDARDS. - COUNTERTOPS - PLASTIC LAMINATE COUNTER OVER 3/4" PARTICLE BOARD SUBSTRATE. SQUARE EDGE TREATMENT. - PLASTIC LAMINATE FACE SHEET AND BACKER SHEET OVER 3/4" PARTICLE BOARD SUBSTRATE WITH SOLID VINYL EDGING DIVISION 7: THERMAL & MOISTURE PROTECTION - SHEET WATERPROOFING: AT FOUNDATION, BASEMENT, AND ELEVATOR PIT WALLS: - BASIS OF DESIGN: GCP APPLIED TECHNOLOGIES - BITUTHENE 4000. - PRIMER, MASTIC, LIQUID WATERPROOFING AND OTHER ACCESSORIES PER MANUFACTURER - PLASTIC LAMINATE COUNTER OVER 3/4" PARTICLE BOARD SUBSTRATE. - ALTERNATIVELY, USE FLUID APPLIED WATERPROOFING: AT FOUNDATION, BASEMENT, AND ELEVATOR PIT WALLS: - BASIS OF DESIGN: GCP APPLIED TECHNOLOGIES - PRO-COR. - PRIMER, MASTIC, LIQUID WATERPROOFING AND OTHER ACCESSORIES PER MANUFACTURER - DRYAN/PROTECT HYDRODUCT 220 WITH HYDRODUCT TAPE. - BLIND-SIDE WATERPROOFING UNDER ELEVATOR PIT AND LANDING FLOORS BELOW GRADE: - BASIS OF DESIGN: GCP APPLIED TECHNOLOGIES - PRE-PRUFE 200 - PREFORMED CORNERS, PREPRUFE TAPE, PREPRUFE HYDROPHILIC SEALANT AND OTHER ACCESSORIES PER MANUFACTURER. - WATER STOP AT COLD POUR JOINTS BELOW GRADE. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES - AT NON-MOVING JOINTS OCCURRING BETWEEN NEW SLABS AND FOUNDATION WALLS, BASIS OF DESIGN: SIKA GREENSTREAK FLAT RIBBED JOINTS DIVISION 7: THERMAL & MOISTURE PROTECTION - CONTINUED - AT JOINTS WHERE NEW CONSTRUCTION ABUTS EXISTING FOUNDATION WALLS, BASIS OF DESIGN: SIKA GREENSTREAK RETROFIT WATERSTOPS THERMAL BARRIER: - FOUNDATION PERIMETER INSULATION: 2" (R-10) EXTRUDED POLYSTYRENE - FIBERGLASS BATT INSULATION: R-21 UNFACED FIBERGLASS BATT IN INTERIOR WALL CAVITIES, R-49 UNFACED FIBERGLASS BATT IN ATTIC. ALL THERMAL INSULATION MUST BE INSTALLED PER RESIDENTIAL ENERGY SERVICES NETWORK (RESNET) GRADE 1 STANDARDS PER FT COLLINS LOCAL AMENDMENTS. - CONTINUOUS INSULATION INSTALLED AT NEW EXTERIOR WALLS AT ELEVATOR TOWER: 2" THICK, R-10 EXTRUDED POLYSTYRENE - ROOFING INSULATION: SEE MEMBRANE ROOFING SYSTEMS DESCRIPTION BELOW - SPRAYED CLOSED CELL POLYURETHANE EXPANDING FOAM INSULATION: USED AT SPECIFIC LOCATIONS TO OPTIMIZE AIR BARRIER CONTINUITY. - SPRAYED CLOSED CELL NON-EXPANDING POLYURETHANE FOAM INSULATION: USED IN ANNULAR SPACE BETWEEN WINDOW FRAMES AND ROUGH OPENINGS. - PLASTIC SHEET VAPOR BARRIER: 6 MIL POLY AT INTERIOR FACE OF EXTERIOR WALL STUDS. TAPE ALL SEAMS & PENETRATIONS. EXTERIOR AIR & WATER (AWB) BARRIER SHEET: - BASIS OF DESIGN: DUPONT "TYVEK COMMERCIAL WRAP" - WITH MFR'S RECOMMENDED ACCESSORIES: CAPPED FASTENERS, SEAM TAPE (DUPONT "TYVEK TAPE"), SELF-ADHERING FLASHING TAPE (DUPONT "STRIGHTFLASH" AND DUPONT "FLEXWRAP"), DUPONT "INTER-FLANSE" TAPE, AND "FLANSE PROTECT" FOR VARIOUS PENETRATIONS. TAPE ALL SEAMS AND PENETRATIONS PER MFR. RECOMMENDATIONS. 30# FELT SLIP SHEET APPLIED OVER AIR & WEATHER BARRIER AT ALL STUCCO APPLICATIONS. FLASHING & SHEET METAL: PRE-FINISHED METAL COPINGS, FLASHINGS & TRIM PER DRAWINGS. BERRIDGE OR APPROVED SUBSTITUTION. INSTALL PER SMACNA STANDARDS. COLOR AS SELECTED BY ARCHITECT FROM STANDARD COLOR SELECTION. ACOUSTIC INSULATION: 3 1/2" R-11 UNFACED FIBERGLASS ACOUSTIC BATTS IN ALL INTERIOR PARTITION WALLS. - ACOUSTIC SEALANT IN ALL JOINTS AND PENETRATIONS IN ALL INTERIOR PARTITIONS WITH ACOUSTIC INSULATION. ROOF SPECIALTIES: 30# FELT FIELD UNDERLAYMENT OVER SHEATHING WITH GRACE ICE & WATER SHIELD UNDERLAYMENT AT EAVES & VALLEYS AT ASPHALT SHINGLE LOCATIONS 24 GA. GALV. METAL FLASHING OVER ICE & WATER SHIELD IN VALLEYS, HEADWALLS, SIDEWALLS AND ELSEWHERE AS NOTED ON DRAWINGS 24 GA. PRE-FINISHED METAL Drip EDGE @ EDGES OF EAVES & RAKES. SINGLE PLY MEMBRANE ROOFING: FULLY ADHERED, 40 MIL TPO MEMBRANE. COLOR: WHITE ACCEPTABLE MANUFACTURERS: - CARLYSLE VENTECH SURE-WELD. - VERSIKO SYNTHESILD - HOLCOM ELEVATE UL TRAPLY TPO - EPDM MEMBRANE ROOF SYSTEM (COLOR: BLACK) FROM THESE MANUFACTURERS WOULD BE CONSIDERED AS A SUBSTITUTION 5/8" EXTERIOR GLASS MAT GYPSUM COVER BOARD. BASIS OF DESIGN: DENSDECK COVER BOARD. INSTALLED OVER INSULATION BOARD. MECHANICALLY ATTACHED THRU INSULATION BOARD TO DECK WITH FASTENER PATTERN AS REQUIRED FOR 100 MPH WIND WARRANTY. FULLY ADHERED WALK PADS TO ACCESS ALL NEW ROOFTOP EQUIPMENT. TAPERED INSULATION BOARD -- AS ACCEPTABLE TO MEMBRANE MANUFACTURER FOR FULL-ROOF SYSTEM WARRANTY: - TAPERED INSULATION: R-30 (AVERAGE). MIN. POLYSOCYANURATE 25 PSI GRADE. LTTR 5.7 PER INCH. 2 LAYERS MIN. WITH STAGGERED JOINTS. - TAPERED INSULATION FOR CRACKS: POLYSOCYANURATE. 25 PSI GRADE. BASE BID: 10 YEAR FULL SYSTEM WARRANTY PLUS 100 MPH WIND DAMAGE WARRANTY. FIRESTOPPING: UL ASSEMBLIES WILL BE REQUIRED FOR ALL FIRESTOPPING THROUGH RATED WALL & FLOOR ASSEMBLIES. SUBMITTALS WILL BE REQUIRED FOR ALL ASSEMBLIES AND MATERIALS TO BE USED. UNLESS THE GC OPTS TO INCLUDE A FIRESTOPPING SUBCONTRACTOR TO HANDLE ALL FIRESTOPPING AT ALL REQUIRED PENETRATIONS IN THE BUILDING, EACH SUB THAT PENETRATES A FIRE RATED ASSEMBLY WILL BE RESPONSIBLE FOR PROPERLY FIRESTOPPING THE PENETRATIONS, AND EACH SUB WILL BE RESPONSIBLE FOR HIS OWN FIRESTOPPING SUBMITTALS JOINT SEALANTS: POLYURETHANE SEALANT FOR EXTERIOR JOINTS. SILICONE SEALANT FOR INTERIOR APPLICATIONS. ACOUSTIC SEALANT AT ALL JOINTS & PENETRATIONS IN INTERIOR PARTITIONS. DIVISION 8: OPENINGS FRAMES: - SOLID WOOD TRIM AND DOOR STOPS AT NEW INTERIOR DOORS. SPECIES AND STAIN TO MATCH EXIST. DOORS: - INTERIOR DOORS (TYPICAL): FLUSH PANEL SOLID CORE WOOD DOORS. LIFETIME WARRANTY. NATURAL WOOD VENEER (ASSUME MAPLE) WITH FACTORY STAIN & TRANSPARENT FINISH. 3'-0" X 6'-8" X 1 1/2" WILL BE THE TYPICAL NEW DOOR SIZE. - DOOR HARDWARE: ALL LOCKSETS GRADE 1. FINISH TO MATCH EXISTING. HANDICAP ACCESSIBLE LEVER HANDLES PER ADA & ANSI A117.1 INCLUDE KEY CABINET. MATCH EXISTING HARDWARE STYLE. SEE DEMO PLANS FOR REPAIR METHOD AND THE RH METHOD AND TESTED FOR PH. MAX. ALLOWABLE VALU SHALL BE LBS/24 HRS/1000 S.F. FOR WATER VAPOR AND PH 11 OR THE MAXIMUM VALUES ALLOWED BY THE MANUFACTURERS OF THE FLOORING MATERIALS AND THE ADHESIVES TO BE USED. TESTING SHALL BE DONE BY AN INDEPENDENT TESTING AGENCY EMPLOYED DIRECTLY BY THE OWNER. IF THE SLABS FAIL THE TESTING, THE OWNER MAY DECIDE TO HAVE VAPOR AND/OR PH MITIGATION PRICED/DESIGNED/INSTALLED. SEE PRICING ALTERNATES. SEE ATTACHED STRUCTURAL ENGINEER'S CONSTRUCTION DOCUMENTS FOR ADDITIONAL CONCRETE INFORMATION. DIVISION 8: OPENINGS FINISHES EXTERIOR - EXTERIOR PORTLAND CEMENT STUCCO SYSTEM WITH ELASTOMERIC OR ACRYLIC FINISH COAT OVER GALVANIZED METAL LATH WITH 30# FELT SLIP SHEET OVER AIR & WEATHER BARRIER. - GALVANIZED CASING BEDS, CORNER BEDS, WEED SCREES. - ALUMINUM REGLETS AT CONTROL JOINTS INTERIOR - INTERIOR PARTITIONS & GYP. BOARD CEILINGS: - TYPICAL GYPSUM BOARD & WOOD STUD PARTITIONS: 5/8" GYPSUM BOARD. - MOISTURE RESISTANT TYPE AT TOILET ROOMS. TYPE X AT FIRE RATED PARTITIONS. - WOOD STUDS @ 16" ON CENTER (DOUBLE STUDS @ OPENING JAMBS). - GYPSUM BOARD CEILINGS & SOFFITS: 5/8" GYPSUM BOARD ON METAL CEILING JOIST FRAMING OR METAL SUSPENSION SYSTEM (CONTRACTOR'S OPTION). - MATCH EXISTING WALL & FINISH TEXTURE & NEW PAINT ON WALLS AND GYP. BOARD CEILINGS. - ADHESIVES FOR ALL ADHERED FLOORING MATERIALS SHALL BE LISTED BY THEIR MANUFACTURER TO TOLERATE A MINIMUM OF 5 LBS OF WATER VAPOR PER THE MVER TEST AND/OR 80% RELATIVE HUMIDITY AND A MINIMUM OF 11 FH. - ASBESTOS FLOOR PREPARATION (FOR CARPETED AREAS). MILLIKEN BARRIER COATING FOR CHEMICALLY ABATED FLOORING. 1. CARPET BELOW 95%RH A. PART 1: TWO COATS MILLIKEN BARRIER COATING. PART 2: PATCH THE FLOOR WHERE NEEDED USING COMMERCIAL MOISTURE RESISTANT CEMENTITIOUS PATCH. PART 3: USE NON-REACTIVE STANDARD ADHESIVE TO INSTALL CARPET TILE. TECHNICAL QUESTIONS: 1-800-528-8453 2. CARPET ABOVE 95% A. PART 1: TWO COATS OF MILLIKEN BARRIER COATING. PART 2: PATCH THE FLOOR WHERE NEEDED USING COMMERCIAL MOISTURE RESISTANT CEMENTITIOUS PATCH. PART 3: USE TRACTIONBACK PLUS TO INSTALL CARPET TILE. (https://shawfloors.widen.net/s/tfwwczckmj/moisturetreatmentsolutions-shawconnect) ASBESTOS FLOOR PREPARATION (FOR AREAS PLANNED FOR LVT) A. SHAW FLOORING: MSP (MOISTURE PRIMER) OR 9000 TO ISOLATE ANY RESIDUAL MASTIC REMOVERS AND PETRO DISTILLATES IN THE CONCRETE AFTER A TREATMENT OF SURFACE PREP ECT. THIS PROCESS IS DESIGNED TO FIRST REMOVE ANY RESIDUAL SURFACE CONTAMINATION FROM THE ABATEMENT PROCESS AND CREATE A BONDING PROFILE. THEN BLOCK ANY REMAINING CONTAMINATION IN THE SLAB/CAPILLARIES FROM INTERACTING WITH THE NEW FLOORING SYSTEM. ABATEMENT CONTRACTOR TO NEUTRALIZE CHEMICALS USED DURING ABATEMENT. PAINT - ALL ELEMENTS EXPOSED TO VIEW THAT ARE NOT FACTORY FINISHED WILL BE PAINTED; TYPICAL WALLS -- 1 COAT PRIMER PLUS 2 COATS LATEX ENAMEL. - REFER TO INTERIOR FINISH SELECTION LEGEND FOR FURTHER NOTES ON PAINT - OPEN TO STRUCTURE CEILINGS TO RECEIVE DRYFALL PAINT. COLOR TO BE DETERMINED TILE TRIM ACCESSORIES - ALL TILE THAT DOES NOT EXTEND FULL HEIGHT TO RECEIVE SCHLUTER EDGE PROTECTION IN STYLE "JOLLY". ALL TILE THAT MEETS AT AN OUTSIDE CORNER TO RECEIVE SCHLUTER EDGE PROTECTION IN STYLE "JOLLY". ALL WALL TILE TO HAVE SCHLUTER COVE BASE TILE - SEE A8.0 FOR FINISH SPECIFICATIONS - ALL TILE WILL BE SET WITH PORTLAND CEMENT THIN-SET MORTAR PER TCNA STANDARDS. MASTICS OR ADHESIVES WILL NOT BE ACCEPTABLE. - GROUT TO BE STANDARD COLOR FROM MAPEI, OR SIMILAR. CEILINGS - REFLECTED CEILING PLAN FOR SPECIFICATIONS 24"x48" ACOUSTIC CEILING TILE (ACT) SECOND-LOOK - DRYWALL CEILING SYSTEM IN ALL RESTROOMS. PROVIDE ACCESS PANELS AS REQUIRED. 'OPEN TO STRUCTURE' CEILINGS TO RECEIVE DRYFALL PAINT. SEE REFLECTED CEILING PLAN AND A8.0 FOR COLOR INFORMATION RESILIENT FLOORING - COMMERCIAL GRADE LUXURY VINYL TILE. SEE A8.0 FOR SPECIFICATION, AND INTERIOR SHEETS FOR LOCATIONS. WALL BASE - COMMERCIAL 4" RUBBER WALL BASE THROUGHOUT. SEE A8.0 FOR SPECIFICATION. CARPET TILE - SEE A8.0 FOR SPECIFICATION DIVISION 10: SPECIALTIES - TOILET ACCESSORIES: BASIS OF DESIGN MANUFACTURER: BOBRICK - BRUSHED STAINLESS STEEL. SEE A5.1 FOR SPECIFICATIONS. ACCESSORIES ARE C.F.C.I. 1. TOILET PAPER DISPENSER, SURFACE MOUNTED 2. SANITARY NAPKIN DISPOSAL, SURFACE MOUNTED 3. TOWEL DISPENSER 4. SOAP DISPENSER, WALL MOUNTED 5. GRAB BARS 6. COAT HOOKS 7. BABY CHANGERS - FIRE PROTECTION SPECIALTIES: SEMI-RECESSED (HANDICAP COMPLIANT) FIRE EXTINGUISHER CABINETS WITH FIRE EXTINGUISHERS. COLOR WHITE. DIVISION 11-13: NOT USED DIVISION 14: CONVEYING EQUIPMENT - TRACTION ELEVATOR: BASIS OF DESIGN: THYSSEN KRUPP EOX PASSENGER ELEVATOR. 150 FPM. MACHINE-ROOM LESS. 3500 LB CAPACITY. BAKED ENAMEL HOISTWAY DOOR & FRAME. COLOR CHALKBOARD #F119. - TWO SIEDED DOOR. STANDARD MFR'S CAB FINISH PACKAGE WITH STAINLESS STEEL #4 WALL PANELS, METAL CEILING PANELS, S/S FRONT RETURNS & RAILS. FLOORING FINISH - LVT-1, PER A8.0. ACCEPTABLE OTHER MFR'S: OTIS & SCHINDLER. MFR'S OTHER THAN THYSSEN KRUPP MUST BE ABLE TO WORK WITH THE SHAFT DIMENSION, OVERHEAD CLEARANCE, ELECTRICAL, POWER AND OTHER ELEMENTS THAT HAVE BEEN INCLUDED IN THE DESIGN FOR THE THYSSEN KRUPP BASIS OF DESIGN. NO MODIFICATIONS TO THOSE OR OTHER BUILDING ELEMENTS OR AN ADDED COSTS TO THE OWNER WILL BE ALLOWABLE FOR THE USE OF AN ELEVATOR OTHER THAN THE BASIS OF DESIGN. - OTHER BUILDING ELEMENTS OR AN ADDED COSTS TO THE OWNER WILL BE ALLOWABLE FOR THE USE OF AN ELEVATOR OTHER THAN THE BASIS OF DESIGN. - ELEVATOR COMPONENTS MUST MEET GUIDELINES LISTED IN "NFIP TECHNICAL BULLETIN 4 - ELEVATOR INSTALLATION FOR BUILDINGS LOCATED IN SPECIAL FLOOR HAZARD AREAS IN ACCORDANCE WITH THE NATIONAL FLOOD INSURANCE PROGRAM". DIVISION 15-20: NOT USED DIVISION 16: FIRE ALARM SYSTEMS - A FIRE ALARM SYSTEM WILL BE REQUIRED IN THE ADDITION AND EDUCATION WING PER CODE AND PER THE REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT. THE FIRE ALARM SYSTEM WILL BE DESIGNED AND INSTALLED BY A DESIGN-BUILD SUBCONTRACTOR CARRIED BY THE GC. DIVISION 17 - 20: NOT USED DIVISION 21: FIRE SUPPRESSION - NFPA TYPE 13 SPRINKLERS WILL BE ADDED TO THE EDUCATION WING. THE FIRE SPRINKLER SYSTEM WILL BE DESIGNED AND INSTALLED BY A DESIGN-BUILD SUBCONTRACTOR CARRIED BY THE GC. THAT SUB WILL BE REQUIRED TO MAKE DEFERRED SUBMITTALS OF THE SPRINKLER DRAWINGS & CALCULATIONS TO THE LOCAL FIRE DEPARTMENT. DIVISION 22: PLUMBING - SEE ATTACHED PLUMBING ENGINEER'S DRAWINGS DIVISION 23: HVAC - SEE ATTACHED MECHANICAL ENGINEER'S DRAWINGS. DIVISION 24 & 26: NOT USED DIVISION 26: ELECTRICAL - SEE ATTACHED ELECTRICAL ENGINEER'S DRAWINGS. DIVISION 27 - 30: NOT USED DIVISION 31: EARTHWORK - THE GEOTECHNICAL REPORT WILL BE MADE AVAILABLE TO ALL GC BIDDERS. - SEE CIVIL ENGINEER'S DRAWINGS. - THE GC WILL BE REQUIRED TO PROVIDE EROSION CONTROL. DIVISION 32: EXTERIOR IMPROVEMENTS - EXTERIOR CONCRETE PAVING: CONCRETE WALKS - SEE DIVISION 3. - PLANTING: SEE LANDSCAPE SITE PLAN/PARKING LAYOUT PLAN - MODIFICATIONS TO THE EXISTING LANDSCAPING IRRIGATION SYSTEM WILL BE DESIGNED AND INSTALLED BY A DESIGN-BUILD SUBCONTRACTOR CARRIED BY THE GC. DIVISION 33: UTILITIES - SEE CIVIL ENGINEER'S DRAWINGS. CITY OF FT. COLLINS LOCAL AMENDMENTS: THE FOLLOWING CITY OF FT. COLLINS LOCAL AMENDMENTS TO THE 2021 IBC AND IECC. THESE ARE NOT, HOWEVER ALL-INCLUSIVE. IT SHALL BE THE RESPONSIBILITY OF THE GC AND HIS SUBCONTRACTORS TO BE FAMILIAR WITH AND COMPLY WITH ALL APPLICABLE LOCAL CODES AND AMENDMENTS. BUILDING CONSTRUCTION: THE PUBLIC RIGHT-OF-WAY SHALL NOT BE USED FOR STAGING OR STORAGE OF MATERIALS OR EQUIPMENT ASSOCIATED WITH THE DEVELOPMENT, NOR SHALL IT BE USED FOR PARKING BY ANY CONTRACTORS, SUBCONTRACTORS, OR OTHER PERSONNEL WORKING FOR OR HIRED BY THE DEVELOPER TO CONSTRUCT THE DEVELOPMENT. THE DEVELOPER WILL NEED TO FIND A LOCATION ON PRIVATE PROPERTY TO AVOID MODIFY ANY NECESSARY STAGING AND/OR PARKING AREAS ASSOCIATED WITH THE COMPLETION OF THE DEVELOPMENT. INFORMATION ON THE LOCATION OF THESE AREAS WILL BE REQUIRED TO BE PROVIDED TO THE CITY AS A PART OF THE DEVELOPMENT CONSTRUCTION PERMIT APPLICATION. ROOFING MATERIALS (IBC 1504.8.1): ASPHALT SHINGLES SHALL BE CLASS 4 IMPACT RESISTANT AND BE TESTED IN ACCORDANCE WITH UL 2218 AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE ROOF COVERING CLASSIFICATION ON ANY NEW STRUCT. REGULATED BY THIS CODE SHALL BE CLASS A. CONSTRUCTION WASTE MANAGEMENT PLAN (IBC 3602.1): FOR REMODELS AND ADDITIONS OVER 2,500 S.F. AND FOR ALL NEW BUILDINGS, A CONSTRUCTION WASTE MANAGEMENT PLAN ACCEPTED BY THE BUILDING OFFICIAL SHALL BE PREPARED BY THE GC AND SUBMITTED TO THE FORT COLLINS BUILDING DEPARTMENT AT THE TIME OF APPLICATION FOR PERMIT. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE IMPLEMENTED AND CONSPICUOUSLY POSTED ON THE CONSTRUCTION SITE. ALL CONCRETE, ASPHALT, MASONRY, WOOD, METALS, AND CARDBOARD SHALL BE RECYCLED. COMPLIANCE SHALL BE CERTIFIED BY INSPECTION, DOCUMENTATION, AND SIGNED FINAL CONSTRUCTION WASTE MANAGEMENT PLANS. SUBSTANTIVE CHANGES TO THE PLAN SHALL BE SUBJECT TO PRIOR APPROVAL BY THE BUILDING OFFICIAL. ALL ROOFING PERMITS ARE REQUIRED TO SUBMIT A FINAL WASTE MANAGEMENT PLAN AND DOCUMENTATION. BUILDING DEMOLITIONS (IBC 3602.1.1): DEMOLITIONS OF BUILDINGS WHICH ARE REMOVED SHALL BE PROCESSED IN SUCH A WAY AS TO SAFELY REMOVE ALL ASBESTOS AND LEAD PAINT CONTAMINANTS. FOR ALL DEMOLITIONS, A DEMOLITION WASTE MANAGEMENT PLAN ACCEPTABLE TO THE BUILDING OFFICIAL IS REQUIRED AT THE TIME OF APPLICATION FOR A DEMOLITION PERMIT. ALL METALS, ASPHALT, CONCRETE, AND MASONRY THAT ARE FREE OF ASBESTOS AND LEAD PAINT SHALL BE RECYCLED, AND WHERE POSSIBLE, ALL REMAINING MATERIALS SUCH AS SHINGLES, WINDSHIELDS, CABINETS AND FIXTURES, WOOD, AND CARDBOARD SHALL BE "SOFT STRIPPED" AND RECYCLED. COMPLIANCE SHALL BE CERTIFIED BY INSPECTION, DOCUMENTATION, AND SIGNED FINAL DEMOLITION WASTE MANAGEMENT PLANS. SUBSTANTIVE CHANGES TO THE PLAN SHALL BE SUBJECT TO PRIOR APPROVAL BY THE BUILDING OFFICIAL. ENERGY ASSESSMENT (IECC 101.4.2): PRIOR TO ANY ALTERATIONS, PROJECTS SHALL UNDERGO A CITY OF FORT COLLINS UTILITIES FACILITY ENERGY ASSESSMENT. INSULATION INSTALLATION (IECC C402.2): A INSULATION SHALL BE INSTALLED TO MEET THE RESIDENTIAL ENERGY SERVICES NETWORK (RESNET) GRADE 1 STANDARD. THE GC AND HIS INSULATION SUB ARE RESPONSIBLE FOR BEING FAMILIAR WITH THE SPECIFICS OF THE RESNET STANDARDS. NOTE THAT ALTHOUGH RESNET REFERS TO "RESIDENTIAL" ENERGY SERVICES NETWORK, THESE STANDARDS WILL BE APPLIED TO ALL COMMERCIAL AND RESIDENTIAL BUILDINGS IN THE CITY OF FORT COLLINS, NOT ONLY RESIDENTIAL PROJECTS. INSULATION WILL BE INSPECTED BY THE CITY OF FORT COLLINS AND WILL BE REJECTED IF NOT INSTALLED PER THESE STANDARDS. AIR BARRIER TESTING (IECC C402.5): PER LOCAL AMENDMENT TO IECC C402.5 THE COMPLETED THERMAL ENVELOPE OF THE BUILDING ADDITION SHALL BE TESTED AND THE AIR LEAKAGE RATE OF THE BUILDING ADDITION ENVELOPE SHALL NOT EXCEED THE LIMITS DEFINED BY THE CITY OF FORT COLLINS. 0.25 CFM/50 SF OF THE BUILDING THERMAL ENVELOPE AREA AT A PRESSURE DIFFERENTIAL OF 0.3 INCH WATER GAUGE (75 Pa.) OR PER ASTM E779, ANSI/RESNET/ACC 380, ASTM E3158, OR ASTM E1827 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF A CONTINUOUS AIR BARRIER AS PART OF THE THERMAL ENVELOPE OF THE BUILDING ADDITION. INSTALLATION SHALL BE DONE IN A MANNER SUFFICIENT TO PASS THE ABOVE NOTED TESTING REQUIREMENTS. THE GENERAL CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR TESTING THE COMPLETED BUILDING AIR BARRIER PER THE ABOVE REQUIREMENTS. TESTING SHALL BE DONE BY A QUALIFIED SPECIALTY SUBCONTRACTOR UNDER CONTRACT TO THE GENERAL CONTRACTOR. IF INITIAL TESTING FAILS, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING POINTS OF LEAKAGE UNTIL THE BUILDING ENVELOPE PER ASTM E1188, SEALING THOSE LEAKS AND RE-TESTING THE BUILDING UNTIL PASSING TEST RESULTS ARE ACHIE			

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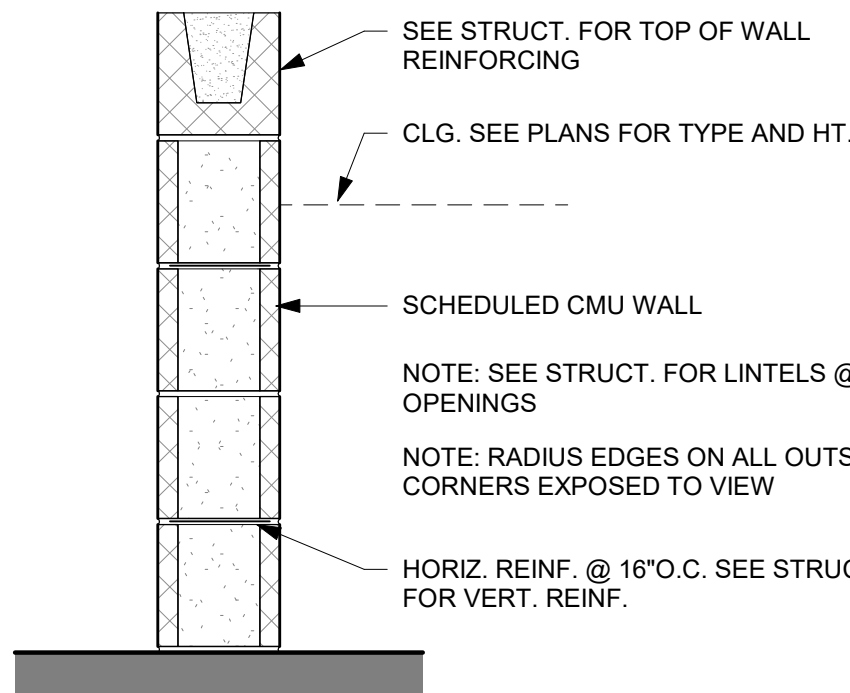
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WALL FURRING - FULL-HEIGHT (H)
NON-RATED MTL FURRING HEAD DETAIL @
METAL DECK



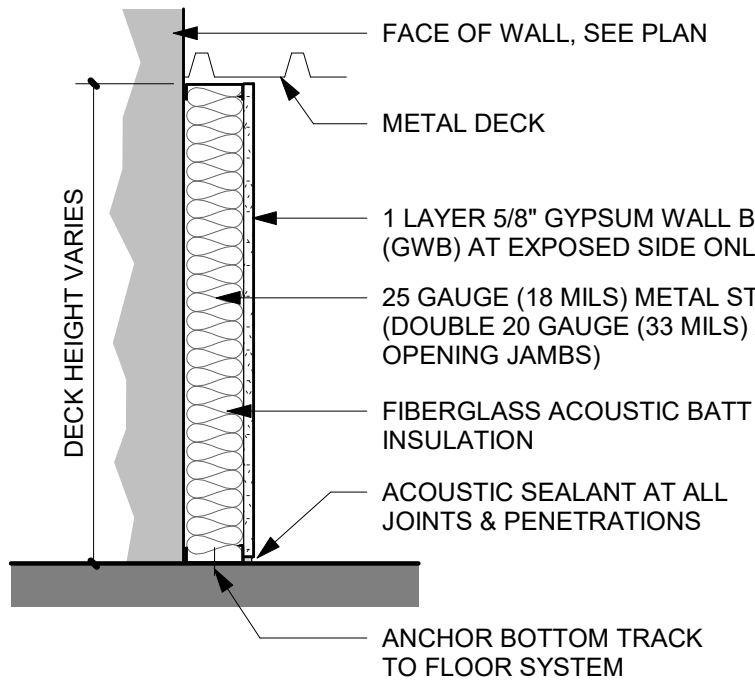
WALL PARTITION - FULL-HEIGHT (H)
NON-RATED WD PARTITION HEAD DETAIL @
METAL DECK



NOTE: EXISTING INTERIOR MASONRY BLOCK SHALL BE CONSIDERED 2-HR FIRE BARRIERS. ANY NEW PENETRATIONS THROUGH THESE WALLS SHALL REQUIRE APPROPRIATE FIRESTOPPING

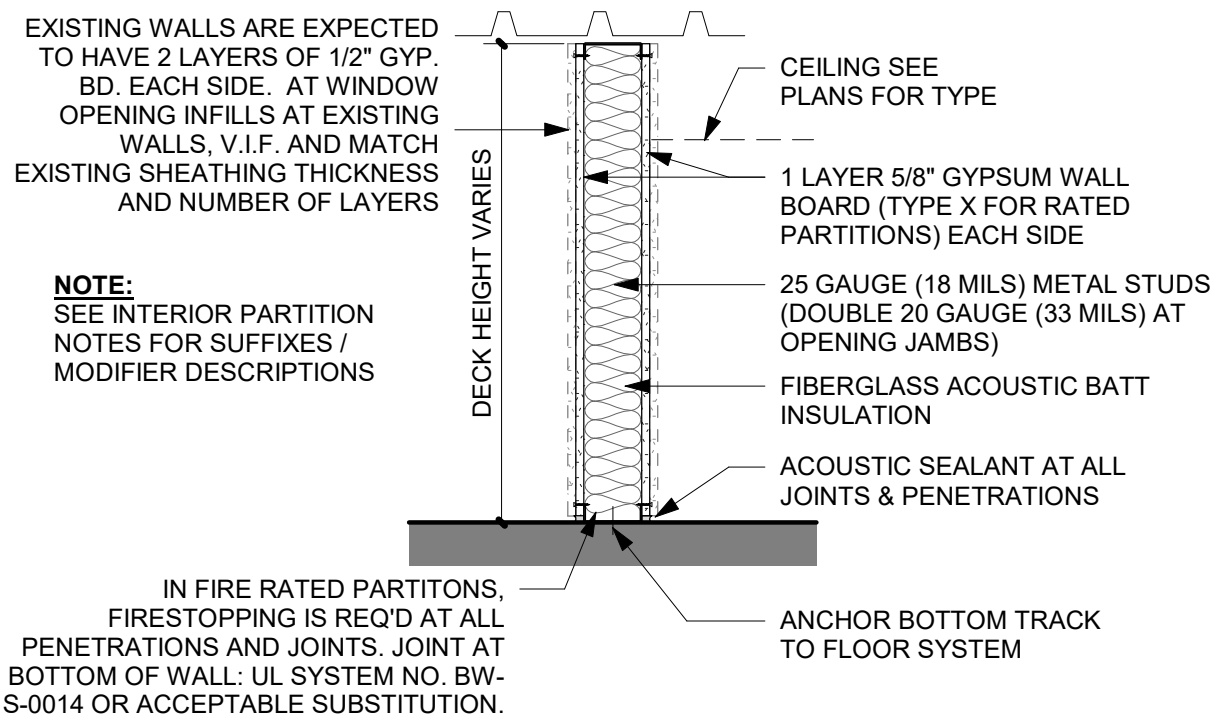
MB-# - MASONRY BLOCK - CONCRETE MASONRY UNIT (CMU)

PARTITION TYPE:	BLOCK SIZE	RATING	UL ASSEMBLY	NOTES
MB-4	4" x 8" x 16"	-	-	ACTUAL DIMS: 3-5/8" x 7-5/8" x 15-5/8"
MB-8	8" x 8" x 16"	-	-	ACTUAL DIMS: 7-5/8" x 7-5/8" x 15-5/8"
MB-10	10" x 8" x 16"	-	-	ACTUAL DIMS: 9-5/8" x 7-5/8" x 15-5/8"
MB-12	12" x 8" x 16"	-	-	ACTUAL DIMS: 11-5/8" x 7-5/8" x 15-5/8"



MF-# - METAL FURRING (NON-LOAD BEARING) W/ GWB ON (1) SIDE

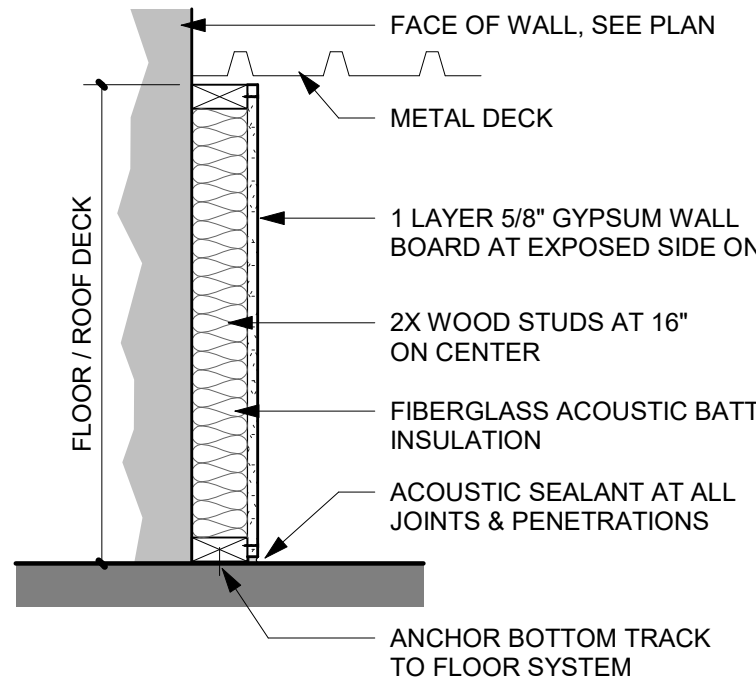
PARTITION TYPE:	STUD SIZE	RATING	UL ASSEMBLY	NOTES
MF-0	7/8"	-	-	SEE INTERIOR PARTITION NOTES FOR SUFFIXES / MODIFIER DESCRIPTIONS
MF-1	1-5/8"	-	-	
MF-2	2-1/2"	-	-	
MF-3	3-5/8"	-	-	
MF-6	6"	-	-	
MF-8	8"	-	-	



MS-# - METAL STUD (NON-LOAD BEARING) W/ GWB ON (2) SIDES

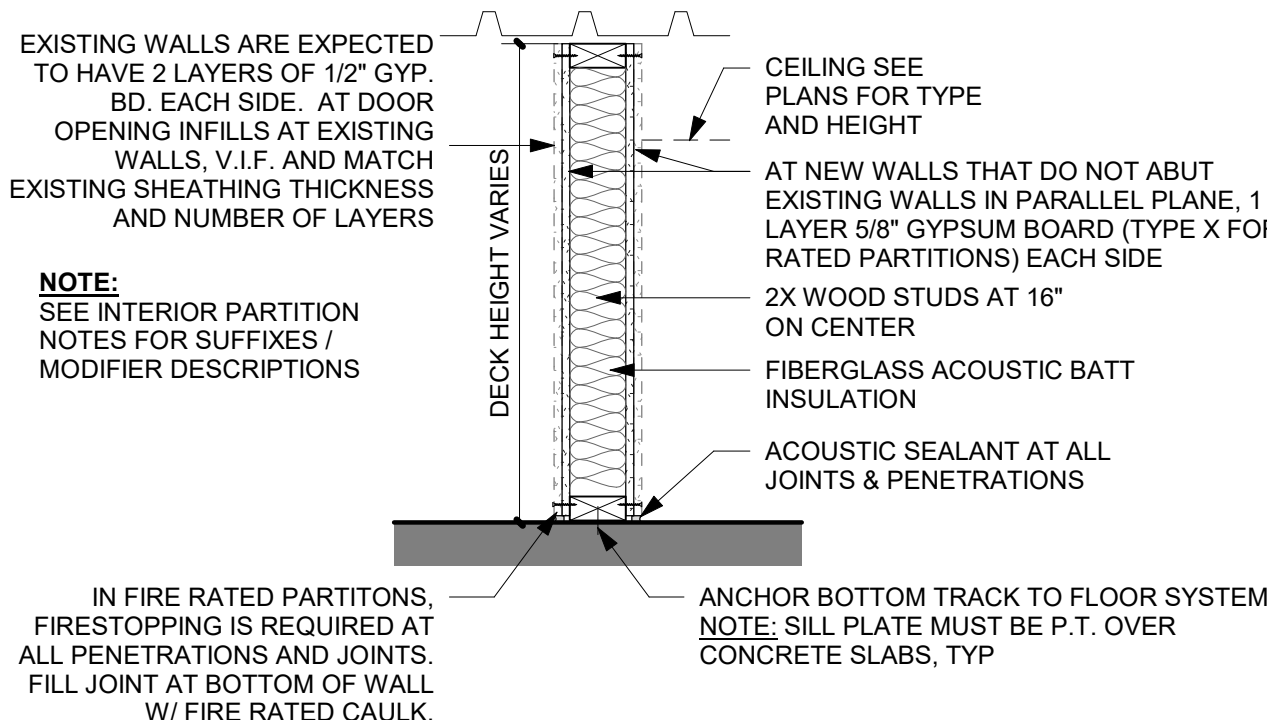
PARTITION TYPE:	STUD SIZE	RATING	UL ASSEMBLY	NOTES
MS-1	1-5/8"	-	-	SEE INTERIOR PARTITION NOTES FOR SUFFIXES / MODIFIER DESCRIPTIONS
MS-2	2-1/2"	-	-	
MS-3	3-5/8"	-	-	
MS-6	6"	-	-	
MS-8	8"	-	-	

NOTE: SEE INTERIOR PARTITION NOTES FOR SUFFIXES / MODIFIER DESCRIPTIONS



WF-# - WOOD FURRING (NON-LOAD BEARING) W/ GWB ON (1) SIDE

PARTITION TYPE:	STUD SIZE (NOMINAL)	RATING	UL ASSEMBLY	NOTES
WF-2	2x2	-	-	ACTUAL DIMS: 1-1/2" x 1-1/2"
WF-4	2x4	-	-	ACTUAL DIMS: 1-1/2" x 3-1/2"
WF-6	2x6	-	-	ACTUAL DIMS: 1-1/2" x 5-1/2"
WF-8	2x8	-	-	ACTUAL DIMS: 1-1/2" x 7-1/4"
WF-10	2x10	-	-	ACTUAL DIMS: 1-1/2" x 9-1/4"



WS-# - WOOD STUD (NON-LOAD BEARING) W/ GWB ON (2) SIDES

PARTITION TYPE:	STUD SIZE (NOMINAL)	RATING	UL ASSEMBLY	NOTES
WS-2	2x2	-	-	ACTUAL DIMS: 1-1/2" x 1-1/2"
WS-4	2x4	-	-	ACTUAL DIMS: 1-1/2" x 3-1/2"
WS-6	2x6	-	-	ACTUAL DIMS: 1-1/2" x 5-1/2"
WS-8	2x8	-	-	ACTUAL DIMS: 1-1/2" x 7-1/4"
WS-10	2x10	-	-	ACTUAL DIMS: 1-1/2" x 9-1/4"

INTERIOR PARTITION NOTES

- ALL NEW WALLS SHALL BE WS-4, U.N.O.
- INSTALL DOUBLE STUDS @ JAMBS AT NEW DOOR AND WINDOW ROUGH OPENINGS.
- INSTALL CONTROL JOINTS VERTICALLY AND HORIZONTALLY IN CONTINUOUS GYPSUM WALL SURFACES GREATER THAN 30' IN LENGTH BETWEEN CORNERS. SPACE JOINTS @ 30' MAX. O.C.
- PROVIDE WOOD BLOCKING IN PARTITIONS AS NEEDED TO PROVIDE BACKING FOR WALL MOUNTED EQUIPMENT, CABINETS, ACCESSORIES, ETC. IT SHALL BE THE RESPONSIBILITY OF THE G.C. TO COORDINATE THE REQUIRED LOCATIONS FOR BACKING.
- ALL INTERIOR PARTITIONS SHALL HAVE ACOUSTIC TREATMENT U.N.O. INSTALL 3 1/2" F.G. ACOUSTIC BATTS IN CAVITIES BETWEEN STUDS. SEAL PERIMETER & ALL PENETRATIONS W/ ACOUSTIC SEALANT. WHERE ITEMS PENETRATE PARTITION, CUT GYP. BD. TO WITHIN 1/2" OF PENETRATING ITEM, FOLLOWING CONTOURS, AND FILL JOINTS WITH ACOUSTIC SEALANT. (PENETRATING ITEMS AT FIRE RATED PARTITIONS MUST BE FIRESTOPPED.)

INTERIOR PARTITION SUFFIXES

THE BASIC PARTITION TYPES LISTED SHOWN HERE ARE MODIFIED PER THE SUFFIXES LISTED BELOW.

"F" = 1 HR. FIRE RATED BARRIER

"2F" = 2 HR. FIRE RATED BARRIER

- EXTEND 1 OR 2 HR FIRE RATED BARRIERS FULL HT. TO UNDERSIDE OF FLOOR/ROOF DECK ABOVE. CONFORM TO FOLLOWING GYPSUM ASSOCIATION GA FILE NUMBERS:
 - 1 HR FIRE RATED MS-#F: WP 1072
 - 2 HR FIRE RATED MS-#2F: WP 1548
 - 1 HR FIRE RATED WS-#F: WP 3614
 - 1 HR FIRE RATED CH-#F: WP 6750
- AT THE JOINT BETWEEN THE FIRE RATED BARRIER AND THE FLOOR/ROOF DECK, CONFORM TO A UL FIRE RATED JOINT SYSTEM APPROPRIATE TO THE TYPE OF PARTITION, ABUTTING FLOOR OR ROOF SYSTEM, AND THE AMOUNT OF DEFLECTION REQUIRED.
- FIRESTOPPING IS REQUIRED AT ALL PENETRATIONS AND FIRE RATED JOINT ASSEMBLIES ARE REQUIRED AT ALL JOINTS IN FIRE RATED BARRIERS. RATINGS FOR THE FIRESTOPPING AND JOINT SYSTEMS SHALL BE EQUAL TO OR GREATER THAN THE RATING FOR THE PARTITION IN WHICH IT IS TO BE USED. G.C. SHALL SUBMIT ALL PROPOSED FIRESTOPPING AND JOINT SYSTEMS TO THE ARCHITECT FOR REVIEW. INCLUDE SYSTEM DESCRIPTION FROM THE TESTING AGENCY PLUS MANUFACTURER'S PRODUCT DATA FOR MATERIAL USED FOR EACH PROPOSED SYSTEM.
- (NOTE: WHERE FIRESAFING INSULATION, OR FORMING MATERIALS ARE REQ'D. IN A FIRESTOPPING OR JOINT SYSTEM, THE MATERIALS USED SHALL BE ONLY AS LISTED IN THE SYSTEM DESCRIPTION. IN GENERAL, FIBERGLASS THERMAL BATT INSULATION IS NOT ACCEPTABLE AS FIRESAFING OR FORMING MATERIAL.)

"H" = FULL HEIGHT PARTITION (UNRATED)

- EXTEND PARTITION FULL HT. TO UNDERSIDE OF FLOOR/ROOF DECK OR TO UNDERSIDE OF A GYP. BD. CLG THAT IS PART OF A ROOF/CLG. OR FLR/CLG. ASSEMBLY. EXTEND ACOUSTIC INSULATION FULL HT. USE LONG LEG (2") TOP TRACK @ UNDERSIDE OF DECK/ROOF W/ STUDS CUT 1" SHORT. EXTEND GYP. BD. FULL HT. TO 1/2" BELOW UNDERSIDE OF DECK. CUT GYP. BD. TO FOLLOW CONTOUR OF DECK, MAINTAINING 1/2" JT. FILL JT. W/ ACOUSTIC SEALANT. DO NOT SCREW GYP. BD. TO TOP TRACK. FILL FLUTES IN METAL DECK OVER TOP TRACK W/ F.G. BATT INSUL.

FIRESTOPPING

FIRESTOPPING IS REQUIRED AT ALL PENETRATIONS THRU FLOORS, RATED ROOF/CEILING ASSEMBLIES, AND INTERIOR PARTITIONS THAT FORM A RATED ENCLOSURE OR SEPARATION (SEE CODE ANALYSIS PLANS)

FIRESTOPPING SUB-CONTRACTOR SHALL PREPARE AND SUBMIT DRAWINGS AND SCHEDULES DESCRIBING EACH TYPE OF PENETRATION, SHOW THE UL ASSEMBLY AND THE MATERIALS SHALL BE USED FOR EACH TYPE OF PENETRATION.

THIS INFORMATION SHALL BE SUBMITTED BY THE GENERAL CONTRACTOR TO THE ARCHITECT AND TO THE CITY'S BUILDING DEPARTMENT. NOTE THAT IF ELECTRICAL, MECHANICAL, OR PLUMBING SUBS FIRESTOP PENETRATIONS OF THEIR WORK, THESE SUBS WILL BE REQUIRED TO SUBMIT THE ABOVE INFORMATION.

SYSTEM NOTES

ROOFS

- R1**
- FULLY ADHERED 40-MIL TPO MEMBRANE SYSTEM. COLOR: 'WHITE'
 - 5/8" EXTERIOR GLASS MAT GYPSUM COVER BOARD, OVER
 - FLAT INSULATION BOARD (POLYISOCYANURATE, R-30 MIN) WITH TAPERED POLYISO INSULATED CRICKETS, OVER
 - 3" METAL DECKING (SEE STRUCT)
 - HEAT WELDABLE WALKWAY PADS AS INDICATED OR AS REQ'D TO ACCESS ALL ROOFTOP EQUIPMENT
 - 10 YEAR FULL SYSTEM WARRANTY PLUS 100 MPH WIND DAMAGE WARRANTY (3 SECOND GUST, MEASURED 10M ABOVE GROUND)

EXTERIOR WALLS

- W1**
- PORTLAND CEMENT STUCCO SYSTEM W/ ACRYLIC FINISH COAT, OVER
 - GALVANIZED METAL LATH, OVER
 - 30# FELT SLIP SHEET, OVER
 - 2" (R-13, MIN.) FOIL-FACED POLYISOCYANURATE RIGID INSULATION BOARD, OVER
 - AIR AND WEATHER BARRIER, BASIS OF DESIGN: TYVEK COMMERCIAL WRAP WITH MFR'S RECOMMENDED ACCESSORIES. TAPE ALL SEAMS AND PENETRATIONS PER MFR. RECOMMENDATIONS, OVER
 - 2 LAYERS 5/8" TYPE 'X' GLASS MAT GYP. BD. SHEATHING, OVER
 - 6" LIGHT GAUGE METAL STUD FRAMING @ 16" O.C. MAX. U.N.O.
 - R-21 MIN. UNFACED F.G. BATT INSULATION IN STUD CAVITIES
 - 6 MIL POLYETHYLENE VAPOR BARRIER AT INTERIOR FACE OF STUDS (TAPE SEAMS)
 - 2 LAYERS 5/8" TYPE 'X' GYP. BD. INTERIOR FINISH

FLOORS

- F1**
- 12" CONC. MAT SLAB DIRECTLY OVER
 - BLIND-SIDE WATERPROOFING. SEAL ALL SEAMS & PENETRATIONS. TERMINATE EDGES PER MANUF. OVER
 - 4" FREE DRAINING GRAVEL FILL
 - PREPARE SUBGRADE PER GEOTECHNICAL REPORT:
 - REINF. W/ REBAR REINF. PER STRUCT.
 - C.J.'S SPACED PER ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE
 - CONC. WATER:CEMENT RATIO NOT TO EXCEED 0.45
 - 7 DAY WET CURE OR COVER CURE IS PREFERRED. CURING BY LIQUID CURING COMPOUND OR CURE/SEAL COMPOUND IS ALLOWED
 - STEEL TROWEL FINISH WHERE SLAB IS EXPOSED TO VIEW (SEE PLANS).
 - INDEPENDENT TESTING OF THE SLAB FOR WATER VAPOR EMISSIVITY (MVER AND RH)AND PH ARE REQUIRED. SEE ALTERNATES FOR POTENTIAL MITIGATION PROCEDURES IF THE SLAB FAILS THE TESTING.

- F2**
- 3" NORMAL WEIGHT CONCRETE TOPPING, OVER
 - 3" COMPOSITE FLOOR DECK PER STRUCT. OVER
 - STEEL FRAMING PER STRUCT.

- F3**
- EXT. CONCRETE PAVING ON GRADE
 - 4000 PSI COMPRESSIVE STRENGTH CONC.
 - 6% AIR ENTRAINED +/- 1 1/2%
 - REINF. W/ FIBERMESH
 - THICKNESS PER RECOMMENDATIONS OF GEOTECHNICAL REPORT
 - LIGHT BROOM FINISH AT ALL WALKS

SOFFITS

- S1**
- MATCH FINISH OF EXISTING SOFFIT WHERE REPAIR IS REQUIRED DUE TO THIS SCOPE OF WORK

CEILINGS

- SEE CEILING SYSTEM NOTES ON SHEET A2.1

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524

VFLA
ARCHITECTURE + INTERIORS

419 CANYON AVE STE 200, FORT COLLINS, CO 80521
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN

STRENGTH IN PARTNERSHIP

STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

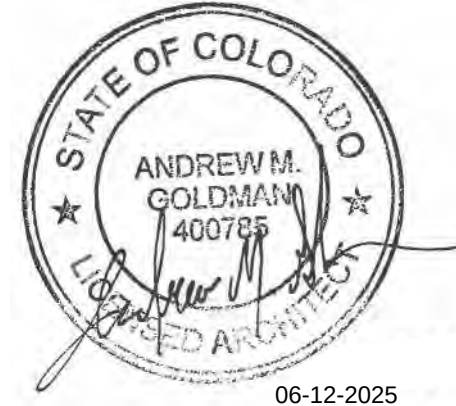
MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

ELECTRICAL ENGINEER:
APS, INC.

ISSUED FOR PERMIT

SHEET ISSUANCES	DATE
DESCRIPTION	
DESIGN DEVELOPMENT	04-01-2025
CD CHECK SET	06-04-2025
ISSUED FOR PERMIT	06-11-2025

SEAL:



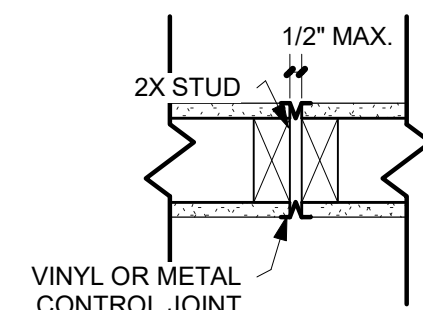
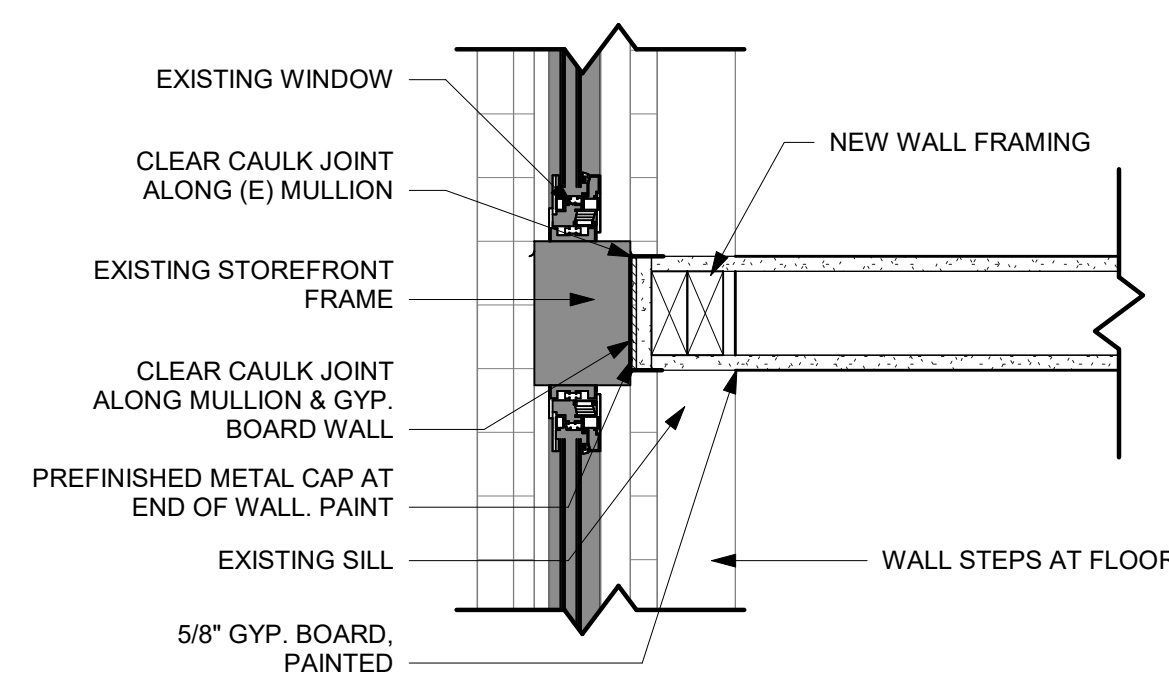
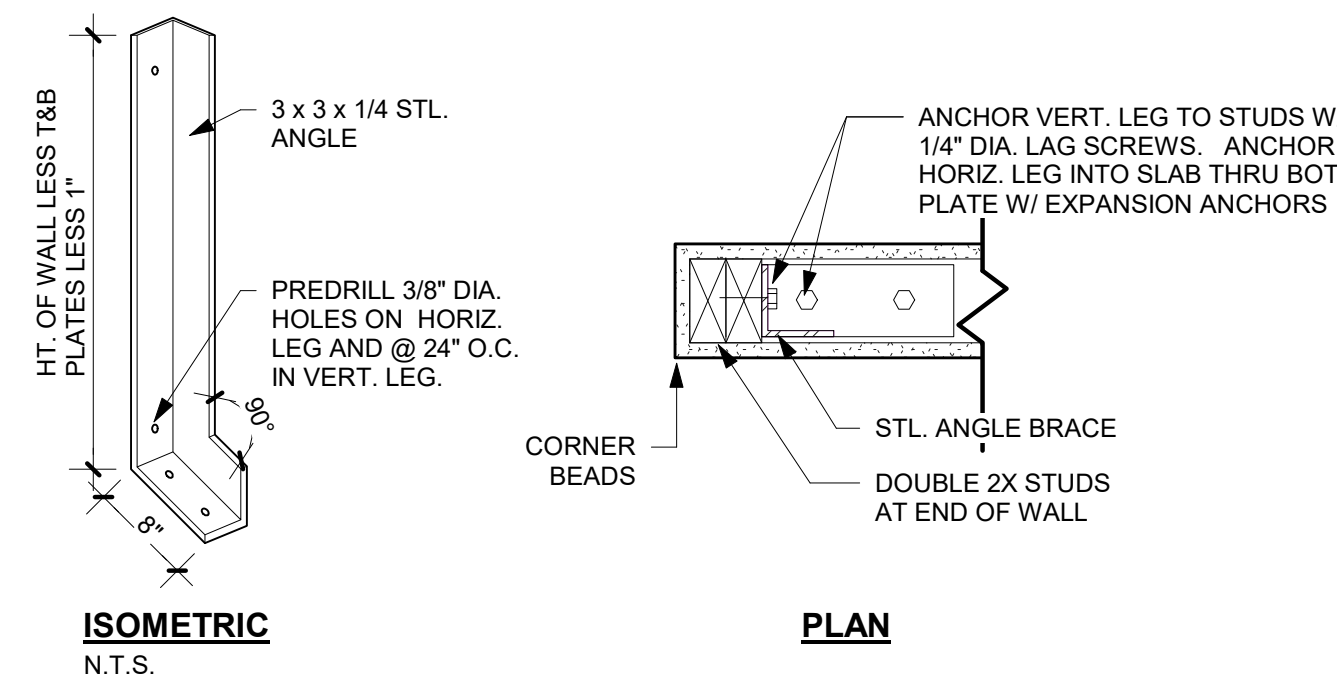
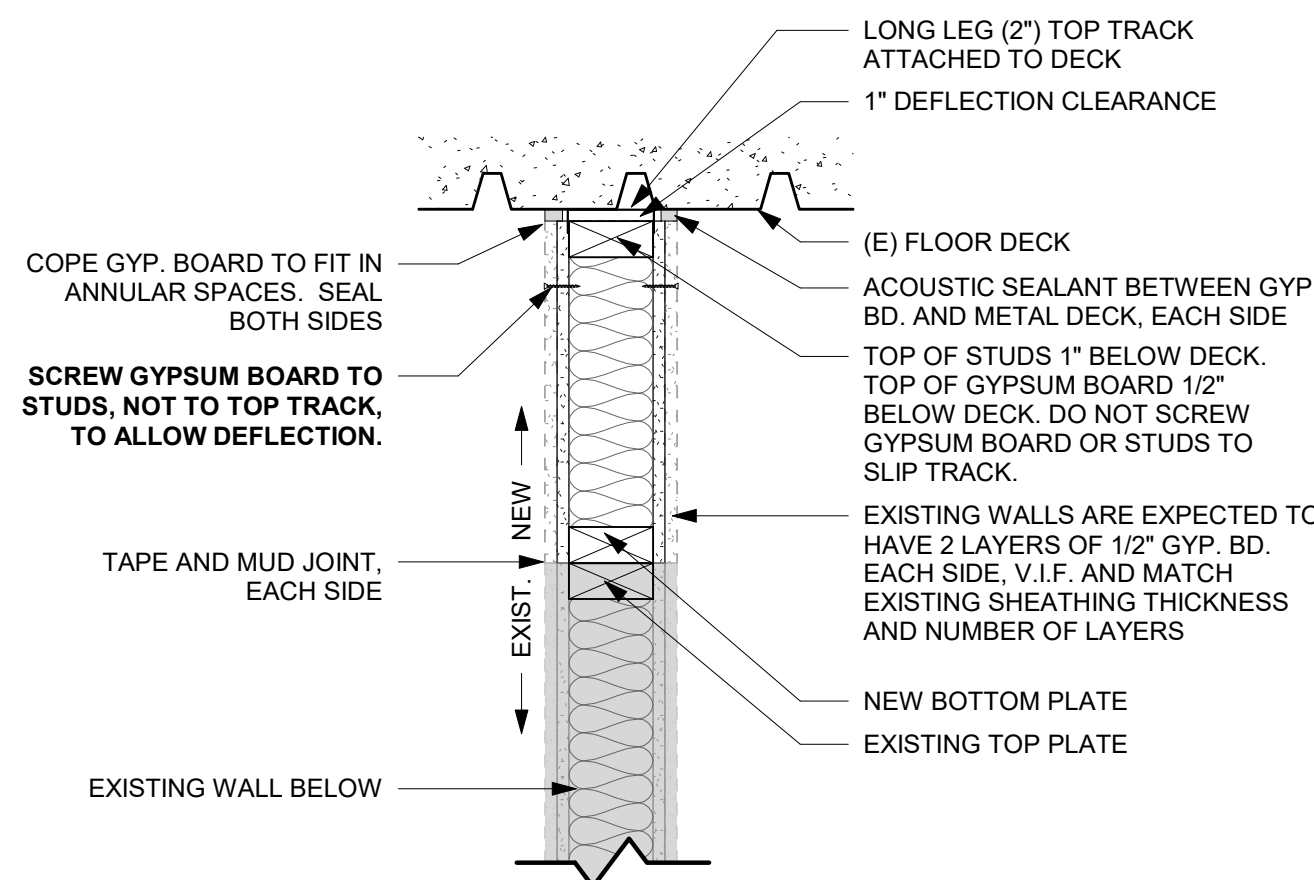
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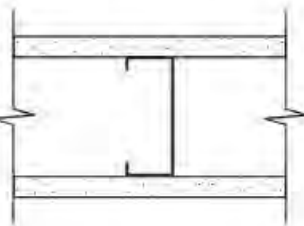
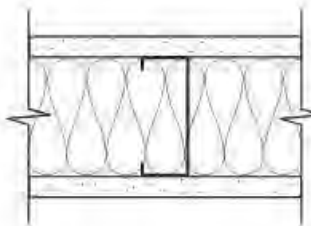
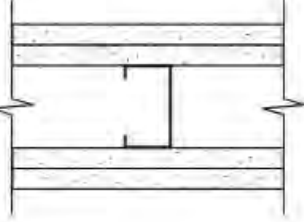
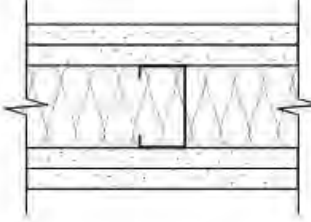
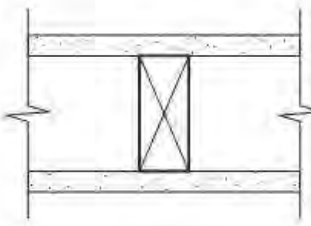
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SYSTEM NOTES & INTERIOR PARTITION TYPES

DRAWING NUMBER:

G0.3



GA FILE NO. WP 1072	GENERIC	1 HOUR FIRE	45 to 49 STC SOUND
GYPSUM WALLBOARD, STEEL STUDS Fire Design: One layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side of 3-5/8", 18 mil steel studs 24" o.c. with 1" Type S screws 8" o.c. at vertical joints and 12" o.c. at floor and ceiling runners and intermediate studs. Joints staggered 24" on each side and on opposite sides. (NLB) Sound Design: Sound tested with 3-1/2" glass fiber friction fit in stud cavity.		  Thickness: 4-7/8" (Fire and Sound) Approx. Weight: 6 psf (Fire) 6.2 psf (Sound) Fire Test: See WP 1350 (FM WP-45, 6-19-68, OSU T-1770, 8-61, ULC 79T484, 9T500, 79T497, 8-12-81, ULC Design W415) Sound Test: RAL TL11-074, 3-23-11	
WALLS AND INTERIOR PARTITIONS, NONCOMBUSTIBLE			
GA FILE NO. WP 1548	GENERIC	2 HOUR FIRE	50 to 54 STC SOUND
GYPSUM WALLBOARD, STEEL STUDS Fire Design: Base layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side of 2-1/2", 18 mil steel studs 24" o.c. with 1" Type S screws 24" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side with 1-5/8" Type S screws 12" o.c. Joints staggered 24" each layer and side. (NLB) Sound Design: Sound tested with 2-1/2" glass fiber insulation friction fit in stud cavity.		  Thickness: 5" (Fire and Sound) Approx. Weight: 9 psf (Fire) 9.2 psf (Sound) Fire Test: WHI-495-0236 & 237, 1-30-80, Sound Test: NRCC TL-93-037	
GA FILE NO. WP 3614	GENERIC	1 HOUR FIRE	
GYPSUM WALLBOARD, WOOD STUDS Fire Design: One layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side of 2 x 4 wood studs 16" o.c. with 1-1/4" Type W screws 12" o.c. Joints staggered 16" on opposite sides. (LOAD-BEARING)		 Thickness: 4-3/4" (Fire) Approx. Weight: 7 psf (Fire) Fire Test: SWRI 01-4511-619[1], 3-94	

PROJECT NUMBER: 2022-104

**FIRST
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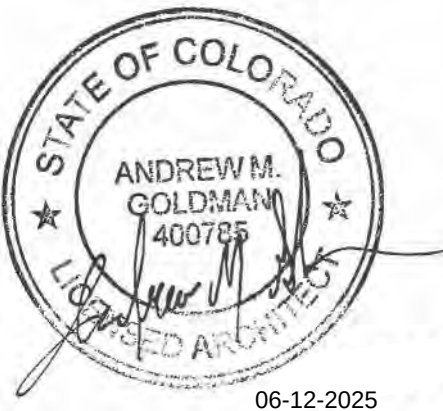
**MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP**

ELECTRICAL ENGINEER
APS, INC.

ISSUED FOR PERMIT

SHEET ISSUANCES	
DESCRIPTION	DATE
DESIGN DEVELOPMENT	04-01-2025
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ISSUED FOR PERMIT	06-11-2025

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INTERIOR PARTITION DETAILS AND FIRE BARRIER NOTES

RAWING NUMBER

G0.4

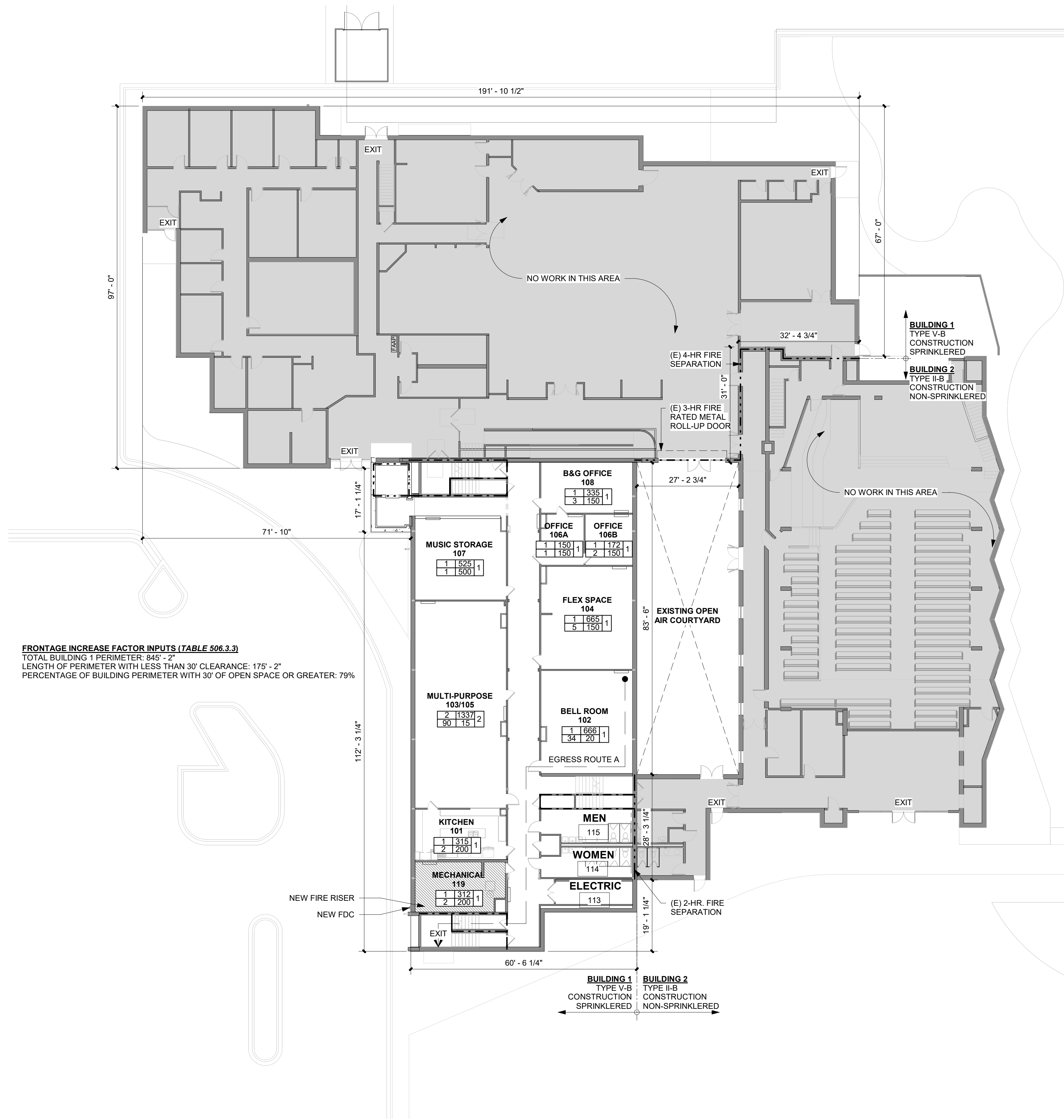
Autodesk Docs://First Presbyterian Church/First Presbyterian Church R24_Central.rvt

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CODE PLAN - EDUCATION WING - BASEMENT

SCALE: 1/16" = 1'-0"



PLUMBING CALCS

OCCUPANT LOAD PER FLOOR

1ST FLR OFFICE AREA [B]:	50
1ST FLR TRAINING/MEETING ROOMS [A-3]:	90
2ND FLR OFFICE / TRAINING / MEETING [B]:	210
3RD FLR OFFICE / TRAINING / MEETING [B]:	193

TOTAL OCCUPANT LOAD PER GENDER

B OCCUPANT LOAD:	453	227M	226F
A-3 OCCUPANT LOAD:	90	45M	45F

REQUIRED FIXTURES PER OCCUPANCY TYPE

OCC.	WATER CLOSETS		LAVATORIES	
	M	F	M	F
A-3	1/125	1/65	1/200	1/200
B	1+ 1/50	1+ 1/50	1+ 1/80	1+ 1/80

TOTAL REQUIRED FIXTURES (IBC TABLE 2902.1)

	WATER CLOSETS		LAVATORIES	
	M	F	M	F
A-3	0.36	0.69	0.23	0.23
B	5.54	5.54	3.84	3.84
	5.90	6.23	4.07	4.07

PROVIDED FIXTURES

FIRST FLOOR:

WATER CLOSETS		LAVATORIES	
M	F	M	F
4	4	0	0

SECOND FLOOR:

WATER CLOSETS		LAVATORIES	
M	F	M	F
4	4	1	1

THIRD FLOOR:

WATER CLOSETS		LAVATORIES	
M	F	M	F
4	4	1	1

TOTAL PROVIDED FIXTURES:

WATER CLOSETS		LAVATORIES	
M	F	M	F
12	12	2	2

EGRESS PATH SCHEDULE

ROUTE NAME	TOTAL DISTANCE
Route A	121' - 6"

CODE REQUIRED INTERIOR SIGNAGE

THE FOLLOWING SIGNAGE WILL BE REQUIRED BY CODE AS A MINIMUM WHETHER SIGNAGE IS BEING FURNISHED BY THE OWNER THROUGH A VENDOR OR BY THE GC THROUGH A SUB. SIGNAGE LETTERING AND BRAILLE SHALL COMPLY WITH ICC/ANSI A117.1.

- EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE SPACE POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN DOORWAY FROM THE ROOM OR SPACE.
- SIGNAGE ON DOORS TO STAIRS
- SIGNAGE ON DOORS TO BATHROOMS
- SIGNAGE ON DOORS TO SPACES POTENTIALLY HAZARDOUS TO THE PUBLIC I.E. MECHANICAL ROOMS, JANITOR'S CLOSETS, ETC.
- SIGNAGE INDICATING ROOF ACCESS

IN ADDITION TO SIGNAGE NOTED ABOVE, WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL: BE LOCATED WITHIN 15' OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30' MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION. INCLUDE LETTERING NOT LESS THAN 3" IN HEIGHT WITH A MINIMUM 3/8" STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" OR OTHER WORDING.

CODE REVIEW PLANS LEGEND

----	1 HR RATED FIRE BARRIER
----	2 HR RATED FIRE BARRIER
----	EXISTING 4 HR RATED FIRE SEPARATION
----	1 HR RATED FLOOR - CEILING ABOVE
60	60 MIN. RATED DOOR
FEC	FIRE EXTINGUISHER IN CABINET
FAAP	FIRE ALARM ANNUNCIATOR PANEL

ROOM TAG - CODE

ROOM #	ROOM AREA
EXITS REQUIRED	# OF EXITS PROVIDED
# OF OCCUPANTS	LOAD FACTOR

CODE DATA

APPLICABLE CODES AND STANDARDS

JURISDICTION:
CITY OF FORT COLLINS - BUILDING SERVICES DEPARTMENT
POUDRE FIRE AUTHORITY

APPLICABLE CODES:
2021 IBC - INTERNATIONAL BUILDING CODE
2021 IECC - INTERNATIONAL ENERGY CONSERVATION CODE
2021 IFC - INTERNATIONAL FIRE CODE
2021 IFGC - INTERNATIONAL FUEL GAS CODE
2021 IMC - INTERNATIONAL MECHANICAL CODE
2021 IPC - INTERNATIONAL PLUMBING CODE
2023 NEC - NATIONAL ELECTRIC CODE
2021 IBC - INTERNATIONAL EXISTING BUILDING CODE
CITY OF FORT COLLINS - ORDINANCE #021 - BUILDING CODE AMENDMENTS, REVISED JANUARY 24, 2022
CITY OF FORT COLLINS - LAND USE CODE, REVISED APRIL 4, 2023

ACCESSIBILITY STANDARDS:
2017 ICC / ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

OCCUPANCY GROUP(S): A-3, B

CONSTRUCTION TYPE: BUILDING 1-V-B; BUILDING 2-II-B
EDUCATION WING AND OFFICE ADDITION TO THE NORTH WILL BE CONSIDERED TO BE PORTIONS OF ONE TYPE V-B FIRE SPRINKLERED BUILDING. CHURCH SANCTUARY AND NARTHEX WILL BE REGULATED AS A SEPARATED TYPE II-B NON-FIRE SPRINKLERED BUILDING.
IBC SECTION 705.3. EXCEPTION 1 - TWO OR MORE BUILDINGS ON THE SAME LOT SHALL BE EITHER REGULATED AS SEPARATE BUILDINGS OR SHALL BE CONSIDERED AS PORTIONS OF ONE BUILDING IF THE AGGREGATE AREA OF SUCH BUILDINGS IS WITHIN THE LIMITS SPECIFIED IN CHAPTER 5 FOR A SINGLE BUILDING. WHERE THE BUILDINGS CONTAIN DIFFERENT OCCUPANCY GROUPS OR ARE OF DIFFERENT TYPES OF CONSTRUCTION, THE AREA SHALL BE THAT ALLOWED FOR THE MOST RESTRICTIVE OCCUPANCY OR CONSTRUCTION.

IEBC ALTERATION LEVEL: 2

FIRE SPRINKLER SYSTEM: NFPA TYPE 13

OCCUPANCY SEPARATION: NON-SEPARATED OCCUPANCIES

ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE - TABLE 504.3

OCC. GROUP: A-3, B
ALLOWABLE BUILDING HEIGHT - 40'-0"
PROPOSED BUILDING HEIGHT - 32'-4"

ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE - TABLE 504.4

OCC. GROUP A-3 - S (MOST RESTRICTIVE)
ALLOWABLE NUMBER OF STORIES - 2 STORIES
PROPOSED NUMBER OF STORIES - 2 STORIES

ALLOWABLE AREA FACTOR PER TABLE 506.2

OCC. GROUP A-3 - SM: 18,000 SF/FLOOR
(MOST RESTRICTIVE) 36,000 SF/TOTAL

ALLOWABLE AREA INCREASES - TABLE 506.3.3

FRONTAGE INCREASE FACTOR (I) 506.3.3 = 0.75

ALLOWABLE AREA OF EACH STORY - SECTION 506.3.3

A₂ = A₁ + (NS x I) = 18,000 + (6,000 x 0.75) = 22,500 SF/FLOOR
45,000 SF/TOTAL

PROPOSED BUILDING AREA

*BASEMENT -	10,371 SF
1ST FLOOR -	21,630 SF
2ND FLOOR -	0 SF
3RD FLOOR -	7,481 SF
4TH FLOOR -	0 SF

TOTAL (INCLUDING BASEMENT) - 39,482 SF
TOTAL BUILDING AREA (W/O BASEMENT) - 29,111 SF

* PER 506.3 BASEMENTS NEED NOT BE INCLUDED IN THE TOTAL ALLOWABLE FLOOR AREA PROVIDED THE TOTAL AREA OF SUCH BASEMENTS DOES NOT EXCEED THE AREA PERMITTED FOR A ONE-STORY ABOVE GRADE PLANE BUILDING

AREAS OF REFUGE 1009.3.3, 1009.4.2. EXCEPTION 2 - AREAS OF REFUGE ARE NOT REQUIRED AT STAIRWAYS OR ELEVATORS IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1

FIRE RESISTANCE RATING FOR BUILDING ELEMENTS BASED ON CONSTRUCTION TYPE (TABLE 601)	
PRIMARY STRUCTURAL FRAME	TYPE V-B
BEARING WALLS EXTERIOR	0 HRS
BEARING WALLS INTERIORS	0 HRS
NON-BEARING WALLS & PARTITIONS INTERIOR	0 HRS
FLOOR CONSTRUCTION & SECONDARY MEMBERS	0 HRS
ROOF CONSTRUCTION & SECONDARY MEMBERS	0 HRS

FIRE RESISTANCE RATING FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (TABLE 705.5)
10' < X ≤ 30' = 0 HR. (TYPE II-B & V-B)
X < 30' = 0 HR. (ALL CONSTRUCTION TYPES)

THE REQUIRED FIRE-RESISTANCE RATING OF EXTERIOR WALLS WITH A FIRE SEPARATION DISTANCE OF GREATER THAN 10 FEET SHALL BE RATED FOR EXPOSURE TO FIRE FROM THE INSIDE.

MAX AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE (TABLE 705.5)
FIRE SEPARATION DISTANCE OF 25' TO LESS THAN 30'
UNPROTECTED, SPRINKLERED = NO LIMIT
UNPROTECTED, NON-SPRINKLERED = 45%

COMMON PATH OF EGRESS TRAVEL (TABLE 1006.2.1)
WITH SPRINKLER SYSTEM: A-3 OCC. = 75 FT. / B OCC. = 100 FT.

EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)
WITH SPRINKLER SYSTEM: A-3 OCC. = 250 FT. / B OCC. = 300 FT.

CORRIDOR & CORRIDOR DOOR RATING (TABLES 1020.2, 716.1(2))
WITH SPRINKLER SYSTEM: A-3 OCC. / B OCC. = 0 HR.

DEAD END CORRIDORS (TABLE 1020.5)
A-3 OCC. = 20 FT. / B OCC. = 50 FT.

HOISTWAY ENCLOSURES (3002)
ELEVATOR ENCLOSURES SHALL BE SHAFT ENCLOSURES COMPLYING WITH SECTIONS 712 AND 713.

SHAFT ENCLOSURES 713.4
SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS WHERE CONNECTING FOUR STORIES OR MORE. THE NUMBER OF STORIES CONNECTED BY THE SHAFT ENCLOSURE SHALL INCLUDE ANY BASEMENTS BUT NOT ANY MEZZANINES.

SHAFT ENCLOSURES 713.6
WHERE EXTERIOR WALLS SERVE AS PART OF A REQUIRED SHAFT ENCLOSURE, SUCH WALLS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 705 AND THE FIRE-RESISTANCE RATED ENCLOSURE REQUIREMENTS SHALL NOT APPLY.

EMERGENCY RESPONDER RADIO COVERAGE (IBC 918, IFC 510)

ALTERATIONS GENERAL (IECC C503.1)

ALTERATIONS TO AN EXISTING BUILDING, BUILDING SYSTEM, OR PORTION THEREOF SHALL CONFORM TO THE PROVISIONS OF THIS CODE AS THOSE PROVISIONS RELATE TO NEW CONSTRUCTION WITHOUT REQUIRING THE UNALTERED PORTIONS OF THE EXISTING BUILDING OR BUILDING SYSTEM TO COMPLY WITH THIS CODE. ALTERATIONS SHALL NOT CREATE AN UNSAFE OR HAZARDOUS CONDITION OR OVERLOAD EXISTING BUILDING SYSTEMS.

EXCEPTION: THE FOLLOWING ALTERATIONS NEED NOT COMPLY WITH THE REQUIREMENTS FOR NEW CONSTRUCTION, PROVIDED THAT THE ENERGY USE OF THE BUILDING IS NOT INCREASED:
3. EXISTING CEILING, WALL, OR FLOOR CAVITIES EXPOSED DURING CONSTRUCTION, PROVIDED THAT THESE CAVITIES ARE FILLED WITH INSULATION.

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524

VFLA
ARCHITECTURE + INTERIORS

419 CANYON AVE STE 200, FORT COLLINS, CO 80521
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN

STRENGTH IN PARTNERSHIP

STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

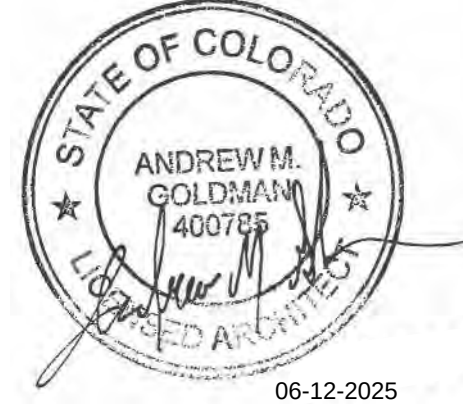
ELECTRICAL ENGINEER:
APS, INC.

ISSUED FOR PERMIT

SHEET ISSUANCES

DESCRIPTION	DATE
DESIGN DEVELOPMENT	04-01-2025
CD CHECK SET	06-04-2025
ISSUED FOR PERMIT	06-11-2025

SEAL:



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CODE REVIEW PLANS

DRAWING NUMBER:

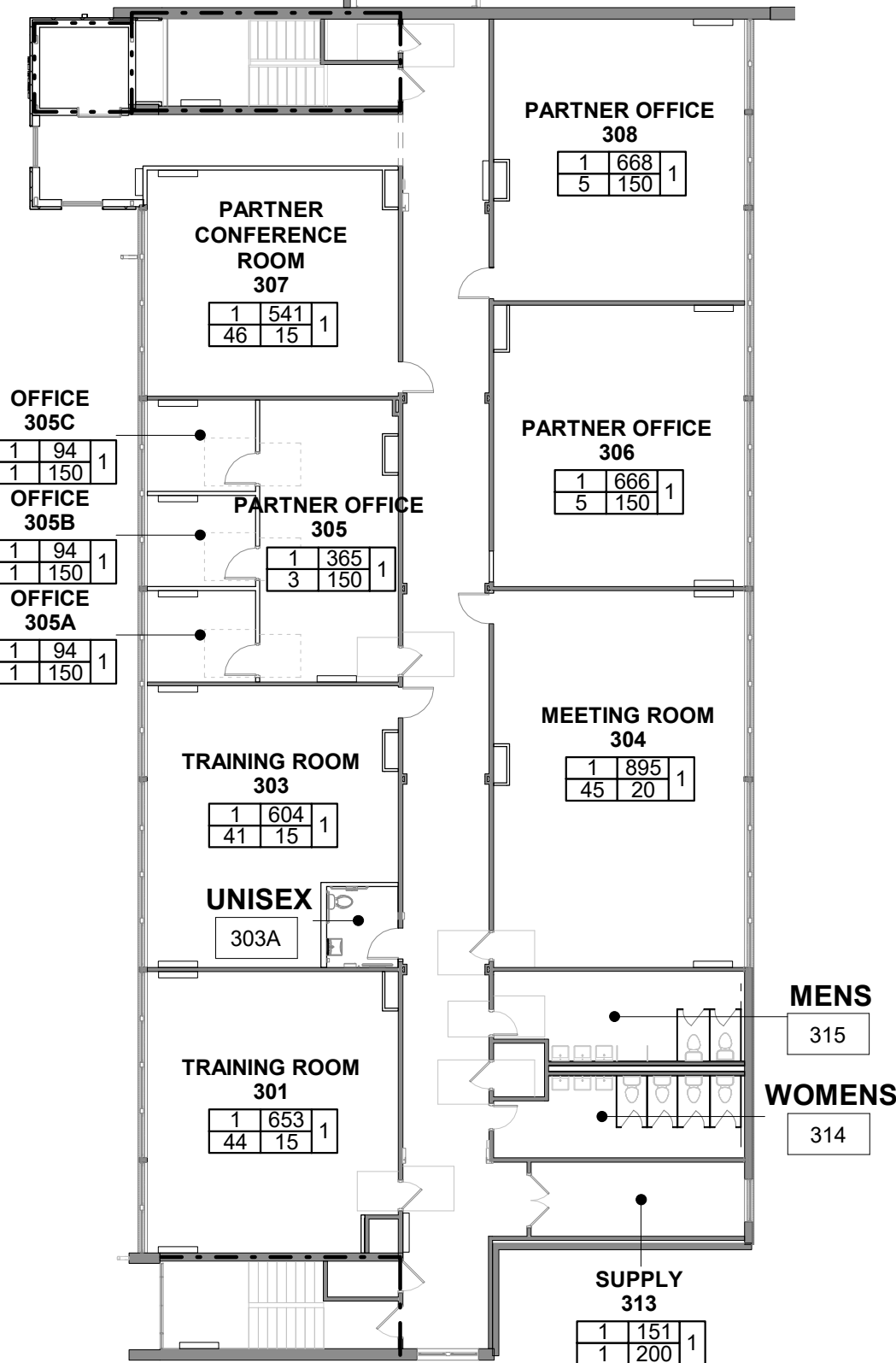
G0.5

Air Tightness Testing Required for Different Building Types: City of Fort Collins Building Code

New Construction Building Types	Single Family Detached	Single Family Attached	Multi-family - stacked units (low-rise and high-rise)	Small Commercial (≤5,000 sf)	Large Commercial (>5,000 sf)	Commercial / Residential Mixed Use
Examples	Houses that are free of any shared walls and stand alone	Duplex, triplex, town-homes, row-houses. Each unit has its own foundation and roof (including IBC R2, R3)	Stacked apartments or condos (to include high-rise projects built under the IBC)	Small office buildings, offices adjacent to unconditioned space	Large multi-story office buildings, large multi-use buildings	Retail on street level, MF stacked units above
Test Required	Residential Air Tightness Test	Residential Air Tightness Test	Multifamily Unit Air Tightness Test	Small Commercial Building Alternative Air Barrier Test	Large Commercial Building Air Leakage Test	Large or Small Commercial Building Air Leakage Test & MF Unit Air Tightness Test
2021 Amended Code Reference	IECC R402.4.1.2	IECC R402.4.1.2	IECC R402.4.1.2	IECC C402.5	IECC C402.5.2	IECC C402.5 and IECC R402.4.1.2
Minimum Tester Qualifications	RESNET Rater, BPI Building Analyst	RESNET Rater, BPI Building Analyst	RESNET Rater, BPI MF Auditor or Building Analyst, LEED-H MF Auditor	RESNET Rater, BPI Building Analyst	Approved Large Commercial Building Air Leakage Testing Agency	RESNET Rater or RPI, BPI MF Auditor or Building Analyst, LEED-H MF Auditor
Compliance Metric (Leakage not to exceed)	3 ACH50 or 0.16 CFM50/sq ft building envelope surface area (SA)	3 ACH50 or 0.16 CFM50/sq ft building envelope surface area (SA)	0.30 CFM50/sq ft building envelope surface area (SA)	0.25 CFM50/sq ft building envelope surface area (SA)	0.25 CFM75/sq ft building envelope surface area (SA)	0.25 CFM50/sq ft SA for small commercial space, 0.25 CFM75/sq ft SA for large commercial, 0.30 CFM50/sq ft SA for MF units above
Test Submittal Requirements (to Building Dept. for C.O.)	See Protocol for information to be included in report	See Protocol for information to be included in report	See Protocol for information to be included in report	See Protocol for information to be included in report	Certification of Compliance, Building Air Leakage Test results	See Commercial and MF Protocols for information to be included in report
Compliance Protocol or Guide	CFC Building Code Air Tightness Testing Protocol, New Attached and Detached SPD	CFC Building Code Air Tightness Testing Protocol, New Attached and Detached SPD	CFC Building Code Protocol for New MF Building Air Tightness Testing	CFC Alternative Small Commercial Building Air Barrier Testing Protocol	CFC Building Air Leakage Test Protocol, CFC Commercial Air Barrier Fact Sheet	CFC Building Code Protocols for Air Tightness Testing: Large or Small commercial, and MF

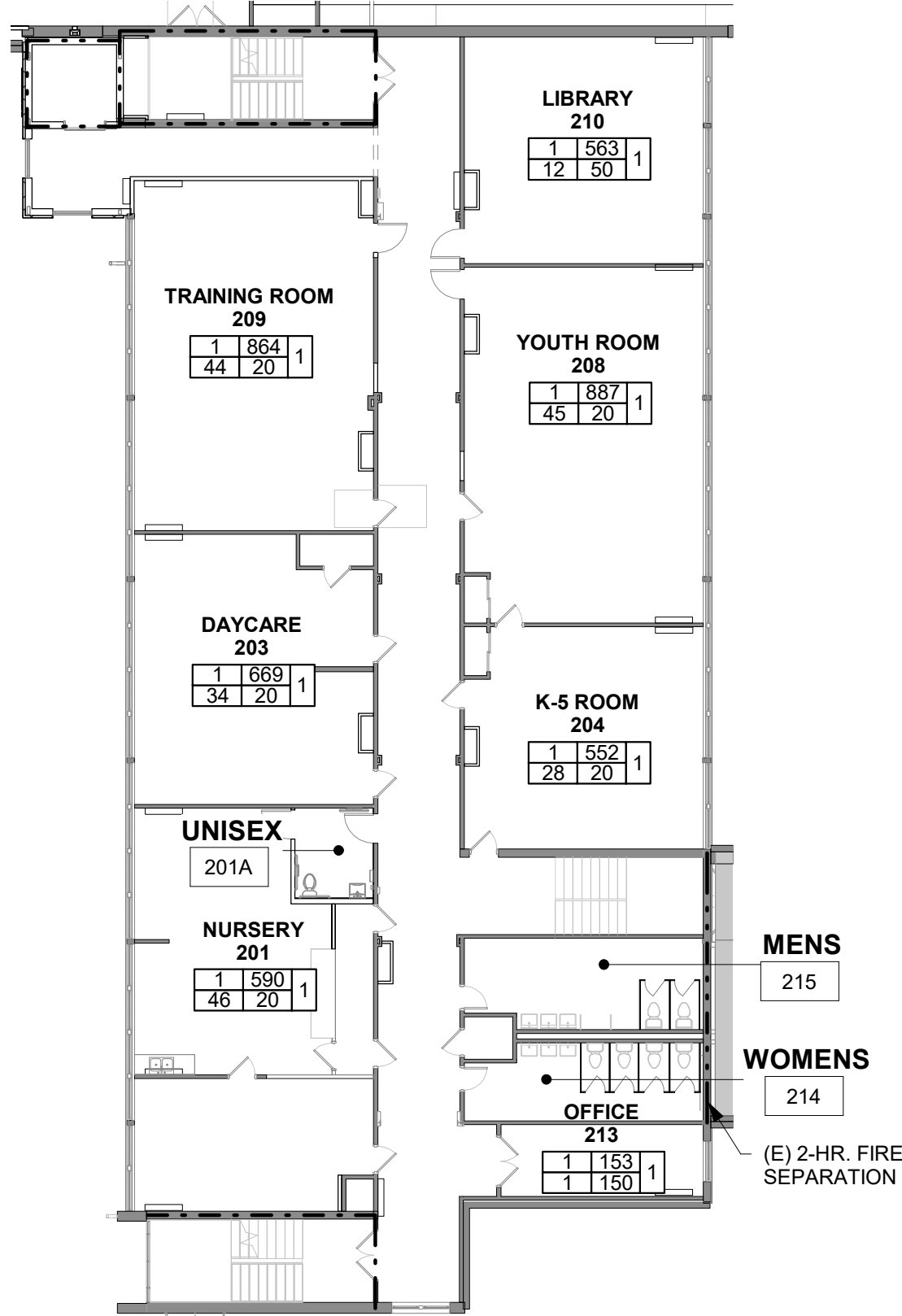
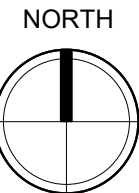
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Air tightness testing for building types defined in code



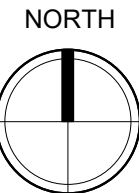
2 CODE PLAN - EDUCATION WING - SECOND FLOOR

SCALE: 1/16" = 1'-0"



1 CODE PLAN - EDUCATION WING - FIRST FLOOR

SCALE: 1/16" = 1'-0"



PLUMBING CALCS

OCCUPANT LOAD PER FLOOR
1ST FLR OFFICE AREA [B]: 50
1ST FLR TRAINING/MEETING ROOMS [A-3]: 90
2ND FLR OFFICE / TRAINING / MEETING [B]: 210
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TOTAL OCCUPANT LOAD PER GENDER
B OCCUPANT LOAD: 453 - 227M; 226F
A-3 OCCUPANT LOAD: 90 - 45M; 45F

REQUIRED FIXTURES PER OCCUPANCY TYPE
OCC. WATER CLOSETS LAVATORIES
A-3 M F M F
1/125 1/65 1/200 1/200
B 1+ 1/50 1+ 1/50 1+ 1/80 1+ 1/80

TOTAL REQUIRED FIXTURES (IBC TABLE 2902.1)
WATER CLOSETS LAVATORIES
A-3 M F M F
0.36 0.69 0.23 0.23
B 5.54 5.52 3.84 3.84
5.90 6.23 4.07 4.07

PROVIDED FIXTURES
FIRST FLOOR: WATER CLOSETS LAVATORIES
M F UNISEX M F UNISEX
4 4 0 3 3 0
SECOND FLOOR: WATER CLOSETS LAVATORIES
M F UNISEX M F UNISEX
4 4 1 3 3 1
THIRD FLOOR: WATER CLOSETS LAVATORIES
M F UNISEX M F UNISEX
4 4 1 3 3 1

TOTAL PROVIDED FIXTURES: WATER CLOSETS LAVATORIES
M F UNISEX M F UNISEX
12 12 2 9 9 2

CODE DATA

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CITY OF FORT COLLINS - BUILDING SERVICES DEPARTMENT
POUDRE FIRE AUTHORITY

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ALLOWABLE BUILDING HEIGHT - 40'-0"
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FRONTAGE INCREASE FACTOR (I) 506.3.3 = 0.75

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PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524

VFLA
ARCHITECTURE + INTERIORS

419 CANYON AVE STE 200, FORT COLLINS, CO 80521
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN

STRENGTH IN PARTNERSHIP

STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

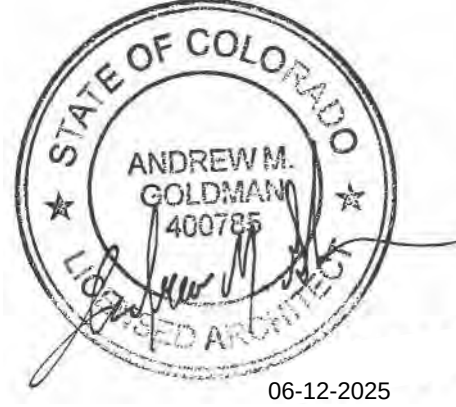
ELECTRICAL ENGINEER:
APS, INC.

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SHEET ISSUANCES

DESCRIPTION	DATE
DESIGN DEVELOPMENT	04-01-2025
CD CHECK SET	06-04-2025
ISSUED FOR PERMIT	06-11-2025

SEAL:



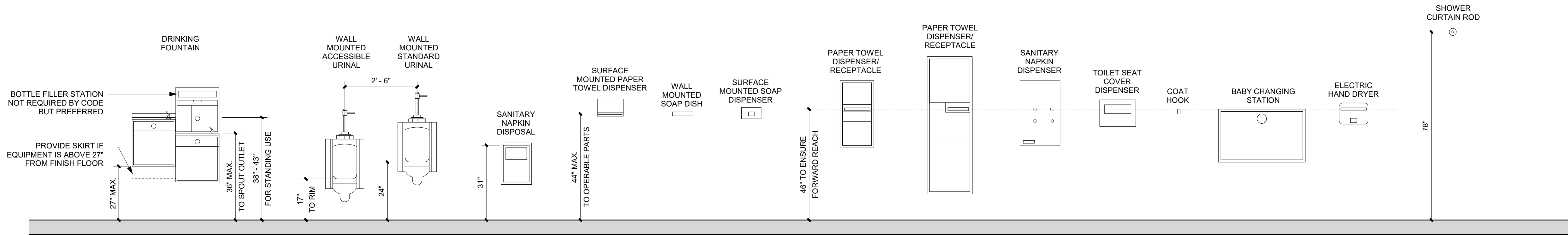
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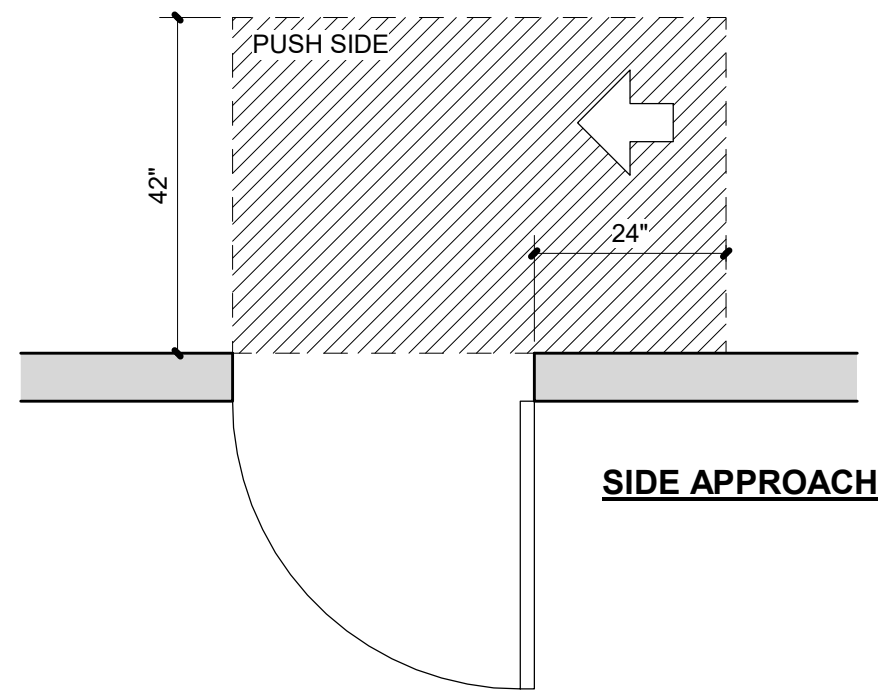
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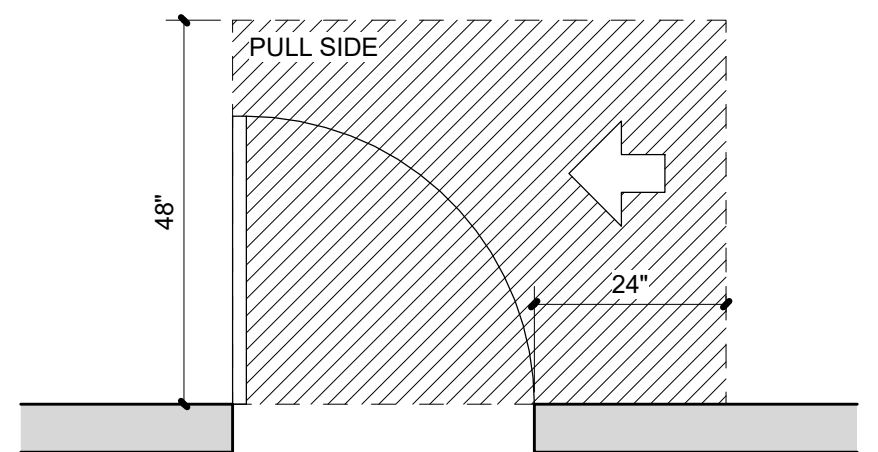
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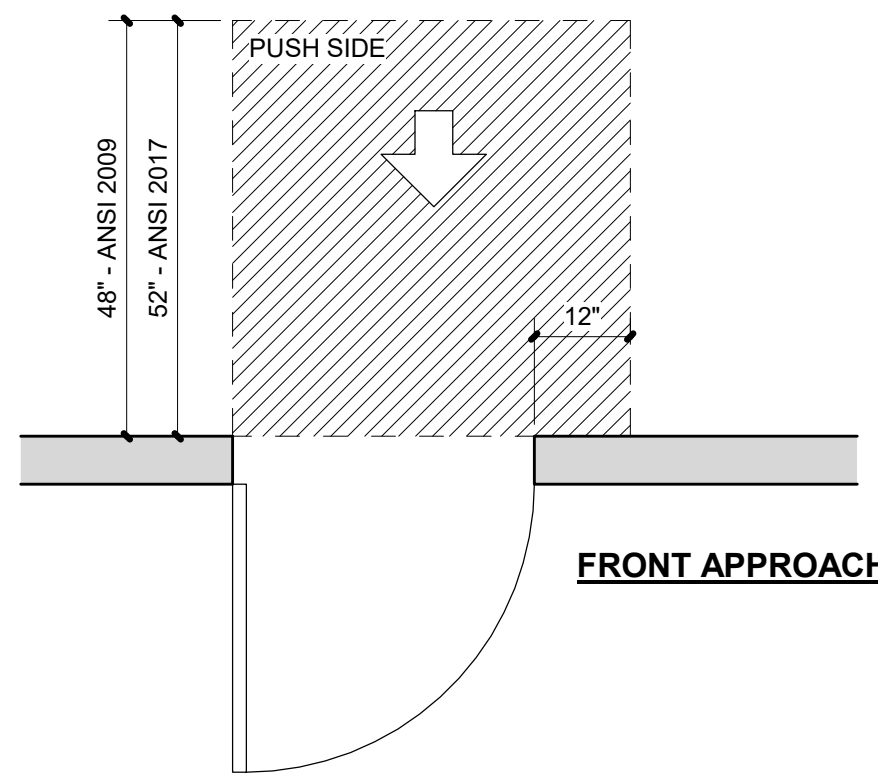
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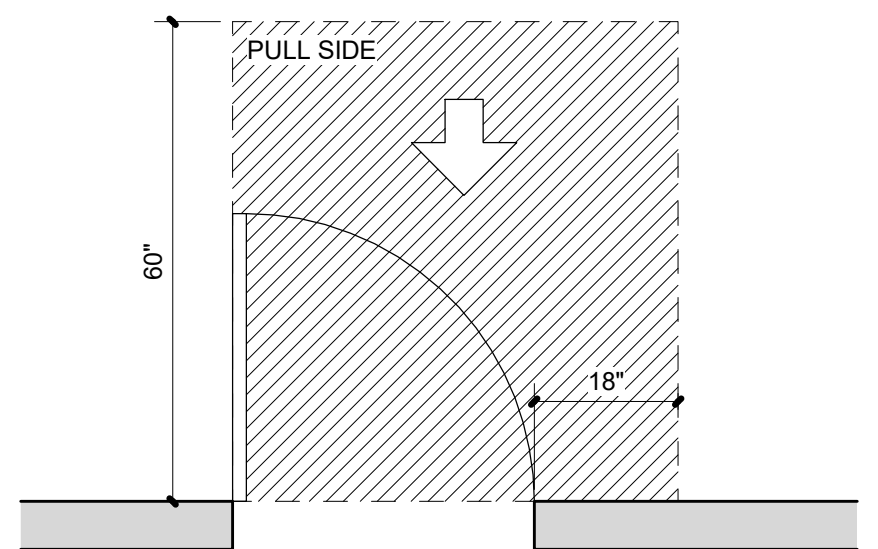
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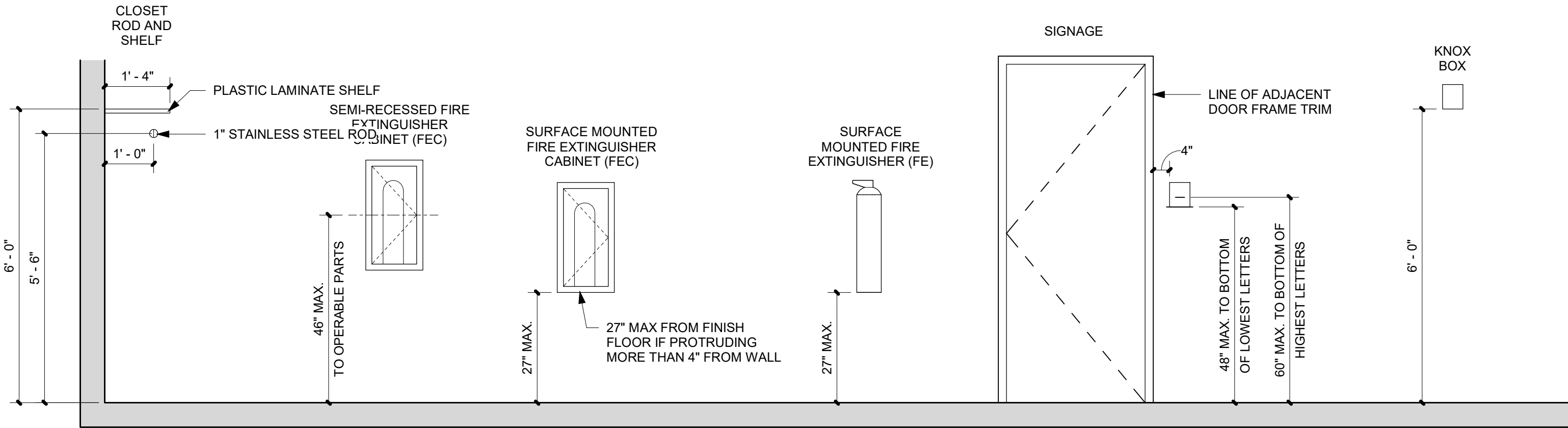
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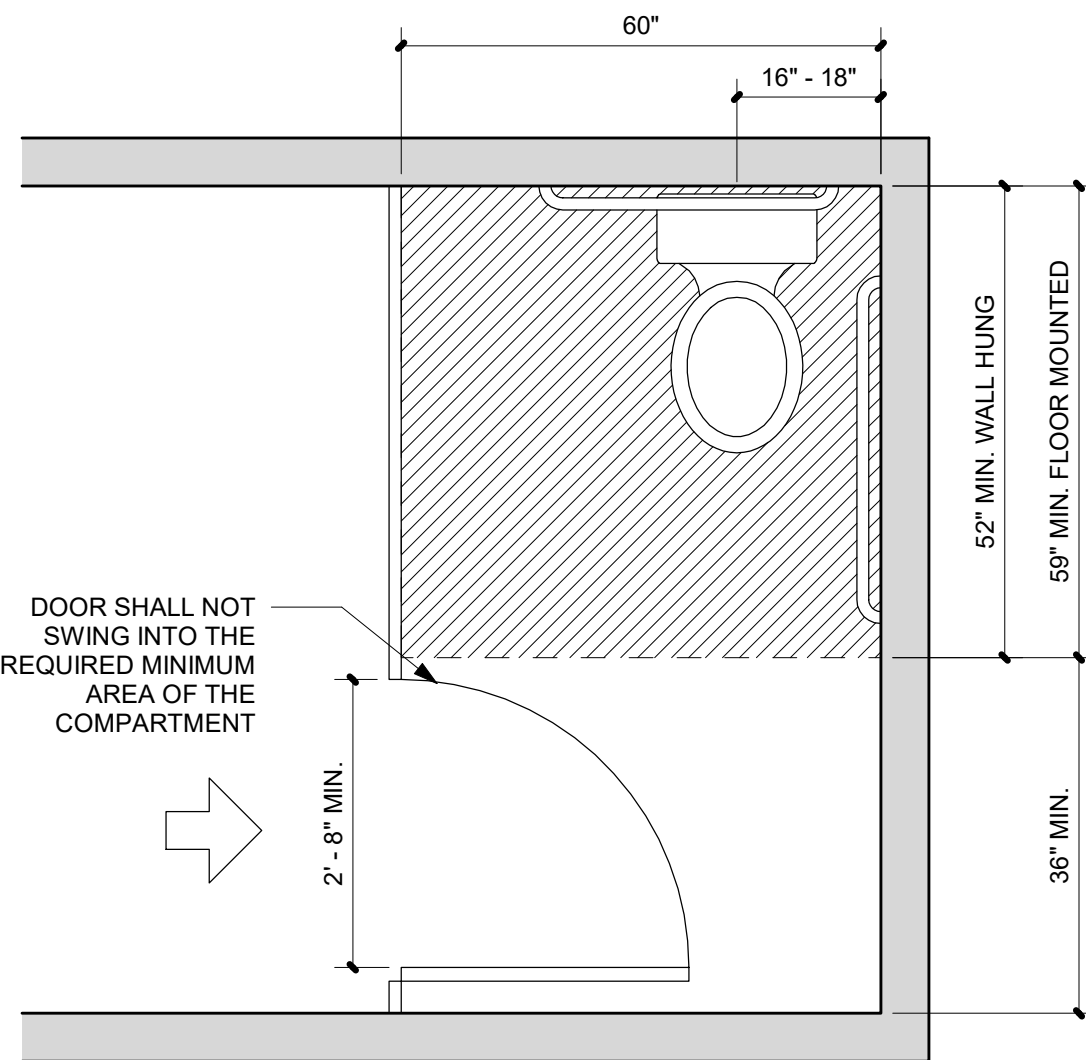
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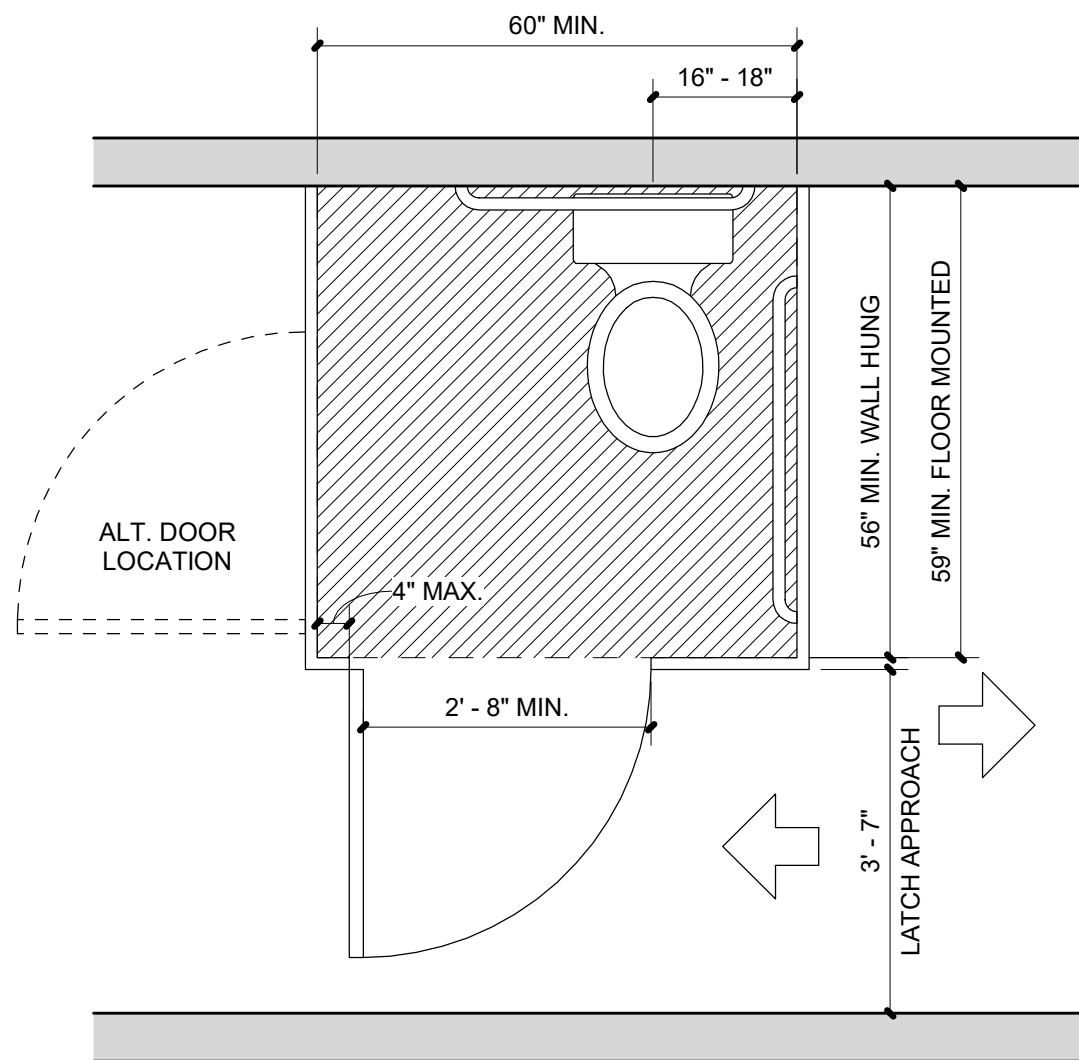
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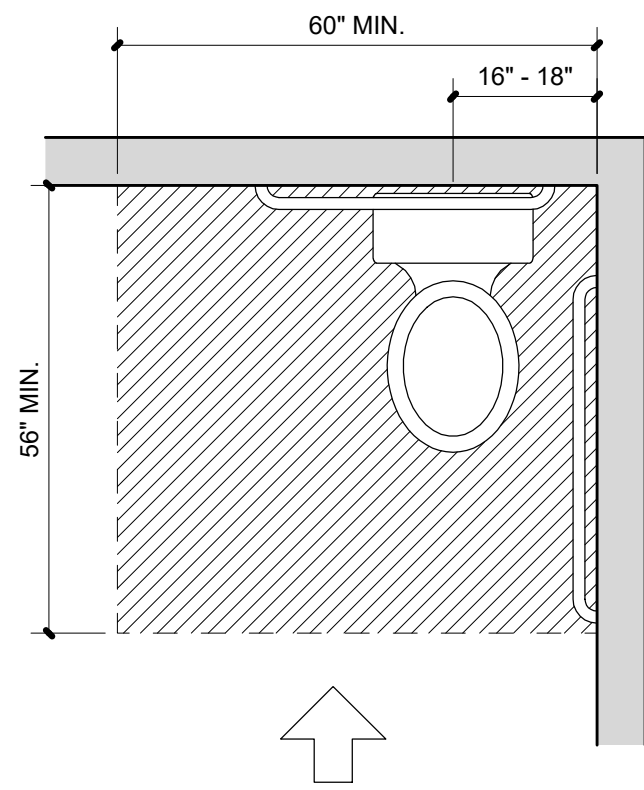
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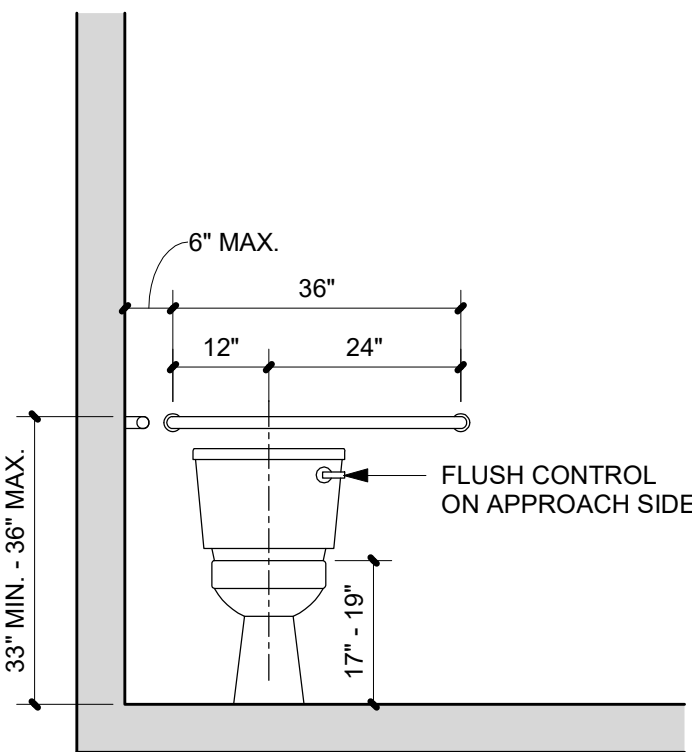
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(END OF ROW)



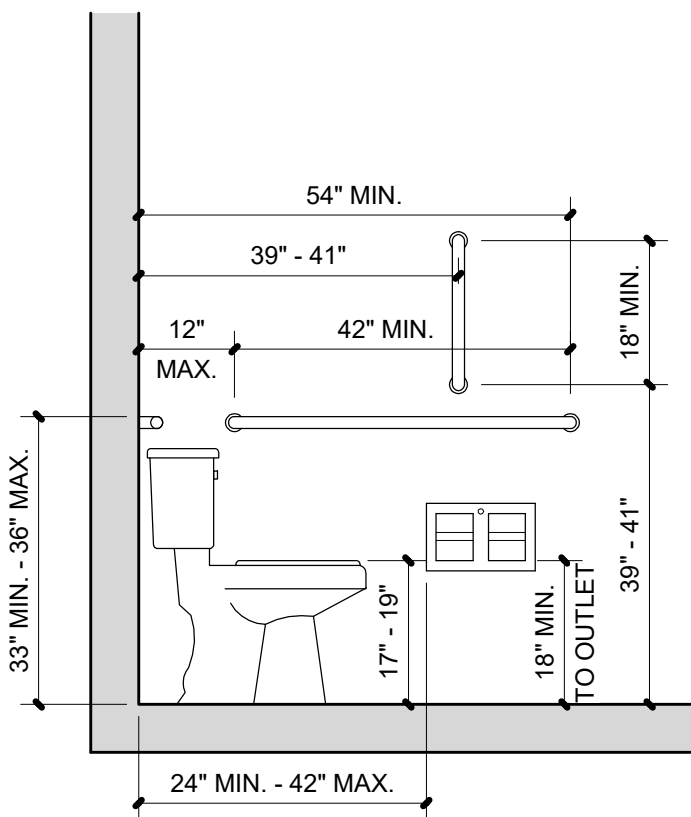
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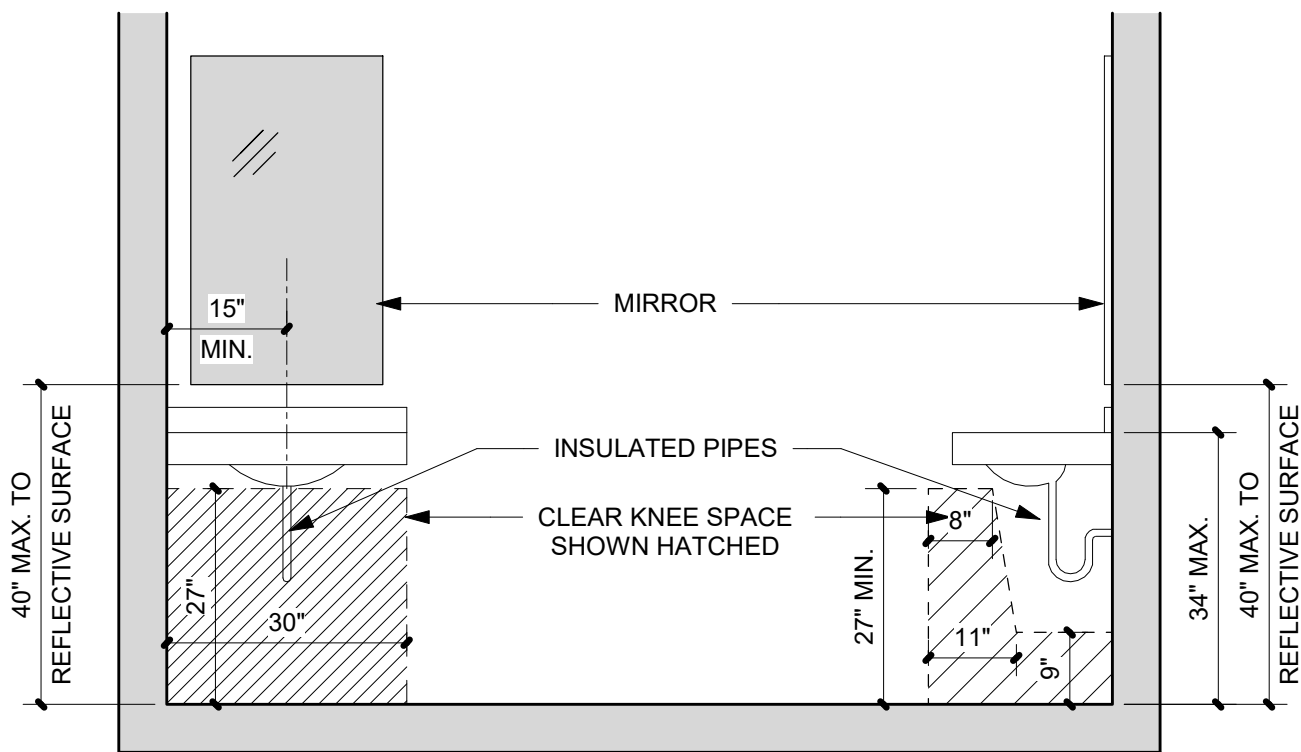
CLEAR FLOOR SPACE



REAR WALL



SIDE WALL



PUBLIC LAVATORY
FRONT ELEVATION

PUBLIC LAVATORY
SECTION

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524

VFLA
ARCHITECTURE + INTERIORS

419 CANYON AVE STE 200, FORT COLLINS, CO 80521
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

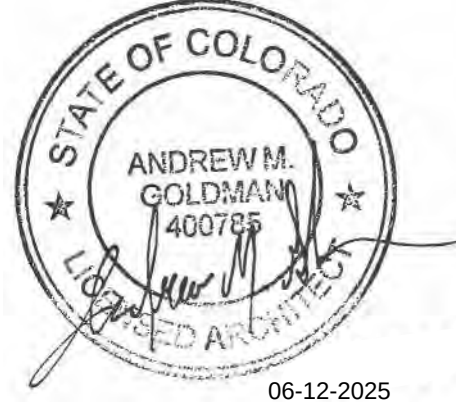
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TYPICAL 2009 & 2017 ANSI DETAILS & MISC. MOUNTING HEIGHTS

DRAWING NUMBER:

G0.7

Autodesk Docs://First Presbyterian Church/First Presbyterian Church R24_Central.rvt

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SITE PLAN GENERAL NOTES

1. NOTE: THIS ARCHITECTURAL SITE PLAN IS FOR GENERAL ORIENTATION PURPOSES ONLY. SEE CIVIL AND LANDSCAPE DRAWINGS BY OTHERS FOR ADDITIONAL INFORMATION.

PROJECT NUMBER: 2022-104

FIRST
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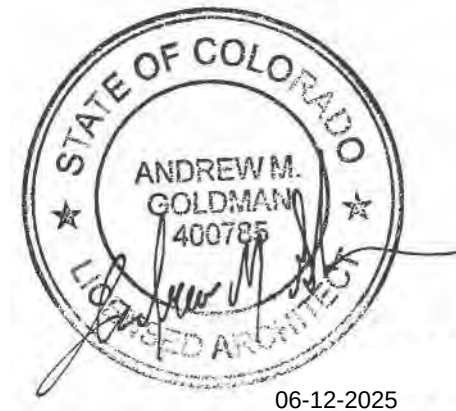
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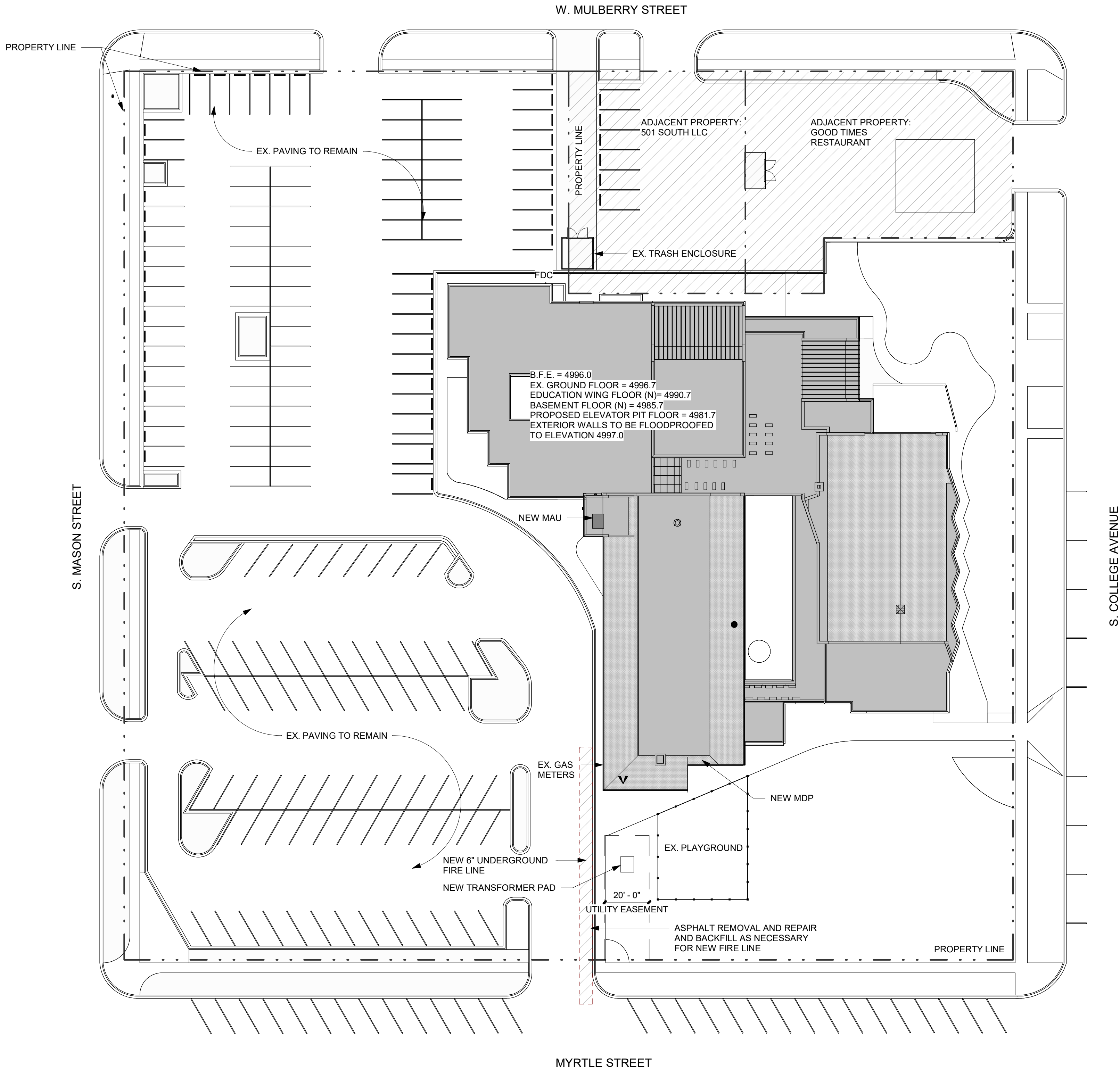
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ARCHITECTURAL SITE
PLAN

DRAWING NUMBER:

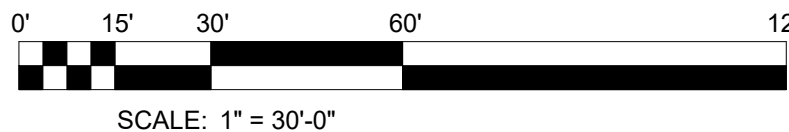
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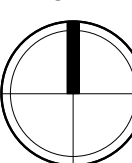
ARCHITECTURAL SITE PLAN

SCALE: 1" = 30'-0"



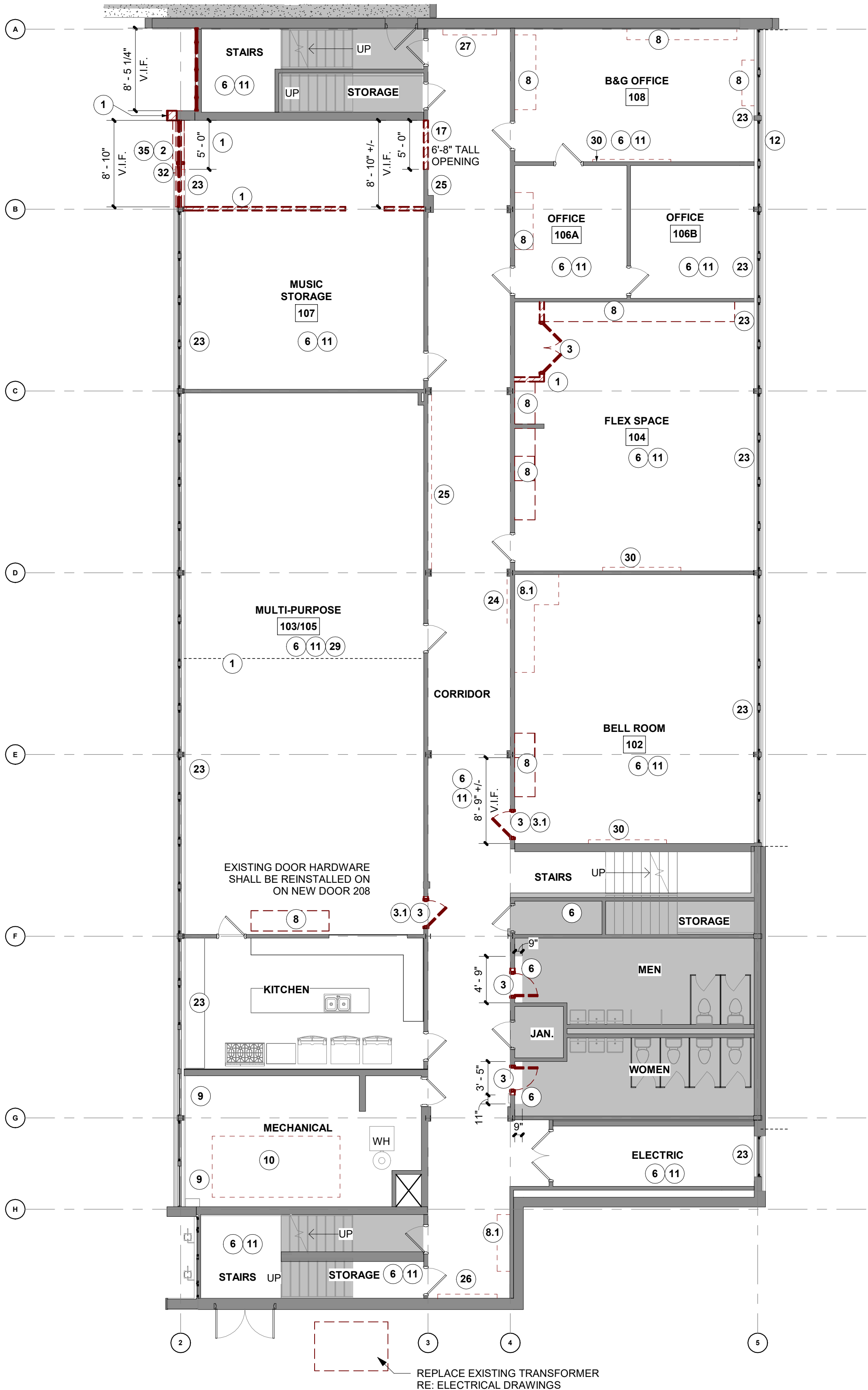
SCALE: 1" = 30'-0"

NORTH

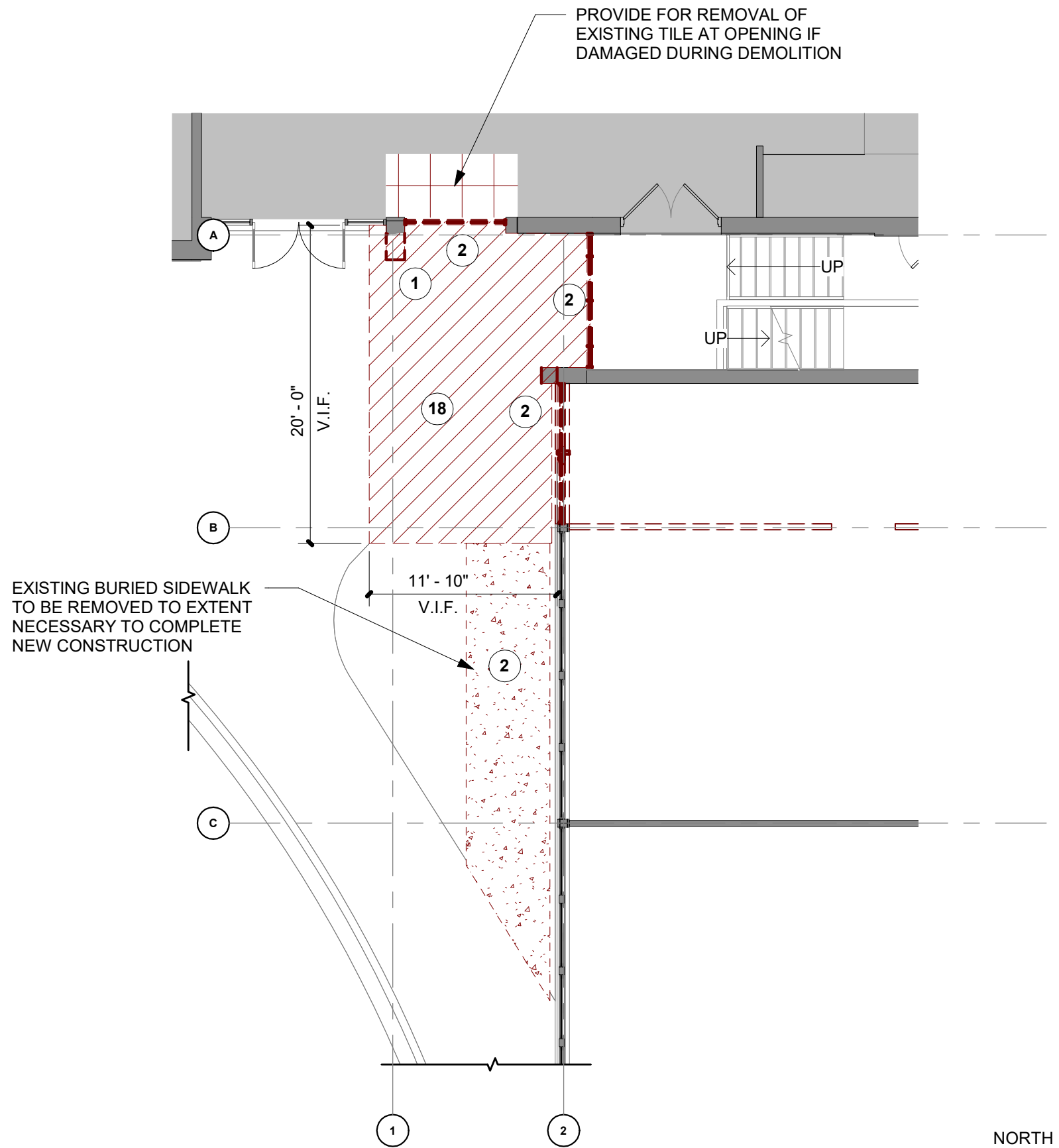


Autodesk Docs://First Presbyterian Church/First Presbyterian Church R2A _Central.rvt

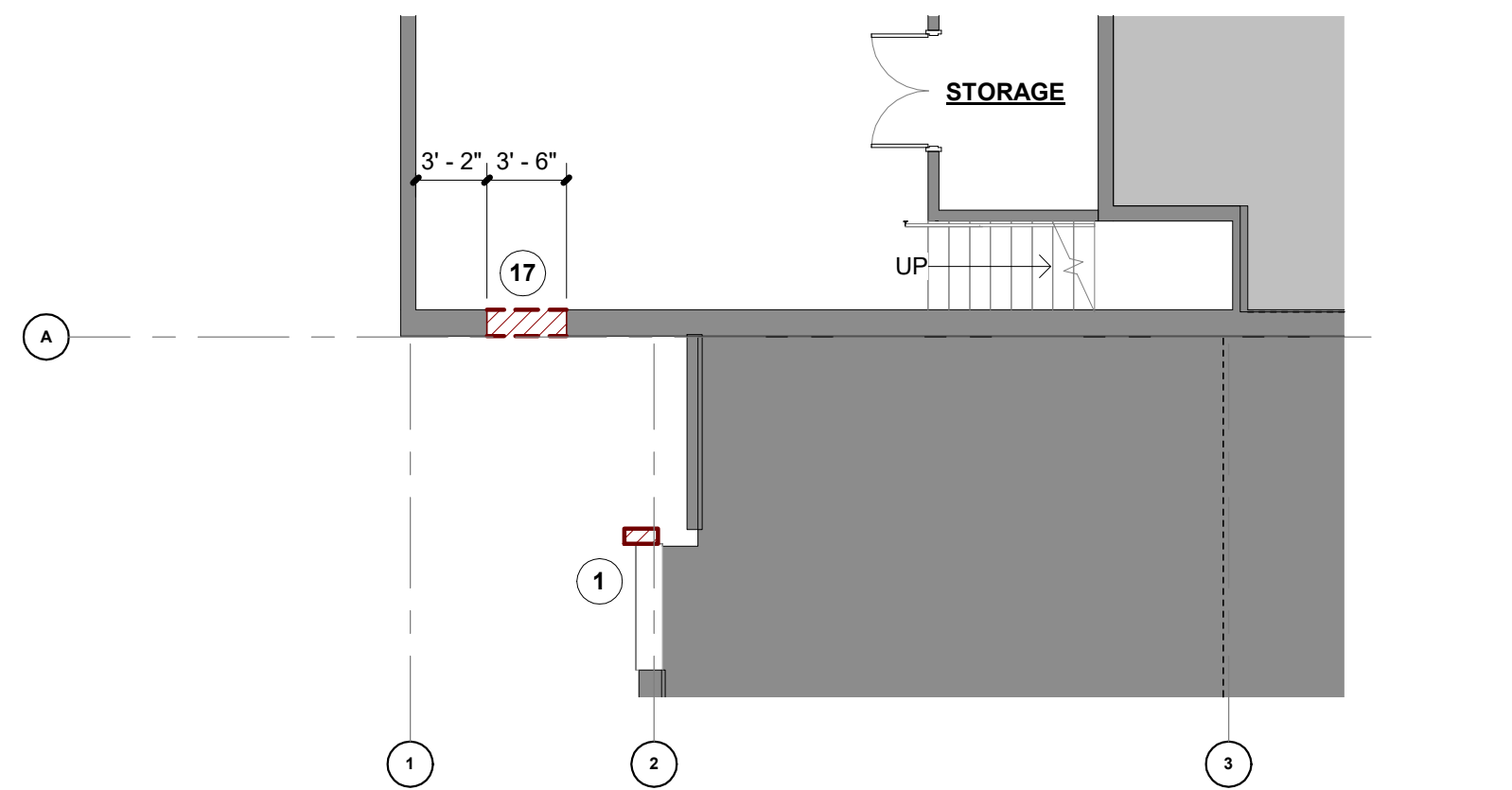
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2 DEMOLITION PLAN - EDUCATION WING - BASEMENT
SCALE: 1/8" = 1'-0"



3 PARTIAL DEMOLITION PLAN - GROUND LEVEL
SCALE: 1/8" = 1'-0"



1 PARTIAL DEMOLITION PLAN - NORTH BASEMENT
SCALE: 1/8" = 1'-0"

DEMO PLAN KEYED NOTES LEGEND

- 1 REMOVE (E) WALL AS INDICATED (VIF)
- 2 REMOVE (E) WINDOW / FRAME ASSEMBLY (VIF)
- 3 REMOVE (E) DOOR / JAMB ASSEMBLY (VIF)
- 3.1 SALVAGE, STORE, PROTECT AND REUSE DOOR HARDWARE
- 4 AREA OF SLAB CUT; COORDINATE LOCATION WITH EXISTING FLOOR STRUCTURE
- 5 REMOVE (E) FOUNDATION AS INDICATED, COORD W/ STRUCTURAL DWGS
- 6 REMOVE (E) FLOOR FINISH AND ALL ASSOCIATED ADHESIVE / GROUT RESIDUE (VIF)
- 7 REMOVE EXTENT OF (E) CEILING / SOFFIT (VIF)
- 8 REMOVE (E) CASEWORK / FURNITURE
- 8.1 REMOVE (E) CASEWORK / FURNITURE. SALVAGE, PROTECT, AND REINSTALL
- 9 REMOVE EXISTING LOUVER AND REPLACE IT WITH SALVAGED PANEL OF GLASS FROM NORTHWEST CORNER OF EDUCATION WING
- 10 REMOVE (E) BOILER SYSTEM; RE: ARCH AND MECH DWGS
- 11 REMOVE (E) WALL BASE
- 12 REMOVE (E) WINDOW A/C UNIT
- 13 REMOVE (E) LIGHT FIXTURES, AND ASSOCIATED CONDUIT, J-BOXES, RECEPTACLES, ETC AS REQ'D U.N.O. (VIF), RE: ARCH AND ELEC DWGS
- 14 REMOVE (E) PLUMBING FIXTURES AND ASSOCIATED PIPING NOT SCHEDULED TO REMAIN; FIELD VERIFY EXTENT OF REMOVAL BACK TO MAIN SERVICE ELEMENTS; COORD W/ ARCH AND PLUMBING DWGS
- 15 REMOVE / MODIFY (E) HVAC SYSTEM COMPONENTS; COORD EXTENT OF MODIFICATIONS PER ARCH AND MECH DWGS
- 16 REMOVE (E) WALL FINISH
- 17 PROVIDE NEW OPENING IN EXISTING WALL (VIF), COORD W/ STRUCT DWGS, ARCH PLANS, AND ELEVATOR SHOP DRAWINGS
- 18 REMOVE EXTENT OF EXISTING CONCRETE (VIF), COORD W/STRUCT DWGS
- 19 REMOVE TRUSS TAILS AS SHOWN
- 20 REMOVE ASPHALT SHINGLES AS SHOWN
- 21 SALVAGE AND PROTECT ELEMENT AS NOTED FOR USE IN NEW PLAN OR FOR STORAGE WITH OWNER
- 22 REMOVE GYP. BD. TO ALLOW FOR INSTALLATION OF FIRE SPRINKLER INSTALLATION.
- 23 REMOVE ABANDONED RADIATORS
- 24 REMOVE (E) BULLETIN BOARDS
- 25 REMOVE (E) SHELVES
- 26 REMOVE & SALVAGE FEC FOR REUSE
- 27 REMOVE (E) UNIT HEATERS. RE: MECH DRAWINGS
- 28 REMOVE (E) PTAC UNIT
- 29 REMOVE CHAIR RAIL
- 30 REMOVE (E) BULLETIN/CORK BOARD, (E) CHALKBOARD, AND / OR (E) MARKER BOARD.
- 31 REMOVE HOOKS
- 32 REMOVE (E) EXTERIOR WALL FINISH
- 33 PROVIDE NEW OPENING IN EXISTING ROOF
- 34 REMOVE (E) FIBERGLASS BATT INSULATION
- 35 SALVAGE WINDOWS FOR POSSIBLE REUSE

DEMOLITION PLAN GENERAL NOTES

1. GC SHALL FIELD VERIFY ALL ITEMS TO BE SALVAGED WITH OWNER PRIOR TO DEMOLITION
2. DEMO/REMOVE EXISTING CONSTRUCTION AS REQUIRED TO ACCOMPLISH INSTALLATION OF NEW BUILDING SYSTEMS AND NEW CONSTRUCTION. PATCH AND REPAIR ALL CONSTRUCTION TO MATCH EXISTING OR TO RECEIVE NEW WORK/FINISHES. GENERAL CONTRACTOR SHALL DETERMINE THE EXTENT OF DEMO REQUIRED. SCOPE OF DEMO EXCEEDS THE SPECIFIC WORK NOTED OR SHOWN ON THIS SHEET.
3. THE CONTRACTOR AND SUB-CONTRACTOR SHALL FIELD INSPECT ALL EXISTING CONDITIONS WHICH MAY REMAIN, IDENTIFY ANY DAMAGED CONDITIONS AND PROVIDE PATCHING AND REPAIR AS REQUIRED.
4. REMOVE ALL EXPOSED PIPING, CONDUIT, AND FIXTURES THAT ARE UNUSED, ABANDONED OR REPLACED WITH NEW WORK AS A PART OF THIS PROJECT WHETHER SPECIFICALLY NOTED OR NOT WITHIN THE BOUNDARY OF THE SCOPE OF WORK. CONFIRM ALL ITEMS WITH OWNER.
5. LEAVE CLEAN, STRAIGHT EDGES WITH NO LOOSE OR CRACKED MATERIAL WHERE NEW FINISHES SUCH AS TRIM OR SEALANT WILL ADJOIN EXISTING FINISHES.
6. REMOVE ANY NON-STRUCTURAL EXPOSED METAL FASTENERS OR WHERE FASTENERS ARE EXPOSED BY DEMOLITION, TYPICAL THROUGHOUT INTERIOR AND EXTERIOR OF THE PROJECT.
7. CLEAN AND PREPARE ALL EXISTING SURFACES TO ACCEPT/RECEIVE NEW WORK.
8. CAP AND SEAL ALL EXISTING UNUSED PLUMBING, MECHANICAL OR ELECTRICAL UTILITIES. CONCEAL WITHIN WALL OR BELOW SLAB.
9. GC SHALL PROVIDE DUST AND SOUND CONTROL AS REQUIRED DURING DEMOLITION AND CONSTRUCTION
10. REMOVE AND REPLACE ANY CONCRETE OR ASPHALT AS REQUIRED TO COMPLETE THE REQUIRED WORK.
11. SAW CUT AND REPLACE CONCRETE SLAB ON GRADE FLOOR AS REQUIRED FOR INSTALL OF PLUMBING, ELECTRICAL AND OTHER BUILDING SYSTEMS. SEE ELECTRICAL, MECHANICAL AND PLUMBING SHEETS FOR LOCATIONS.
12. STRIP AND SAND METAL RAILINGS AS REQUIRED FOR NEW PAINT AS INDICATED ON FINISH PLANS.
13. CUT SLAB ON EITHER SIDE OF BAR JOISTS. V.I.F.
14. REMOVE (E) CHAIR RAILS, (E) TACKSTRIPS, WHITEBOARDS, CHALKBOARDS / BULLETIN BOARDS IN HALLWAYS. TYPICAL.
15. REMOVE ALL TELEVISIONS, TYPICAL.
16. REMOVE ALL (E) BULLETIN BOARDS, (E) CHALK BOARDS, & (E) MARKER BOARDS, TYPICAL.
17. EXISTING CEILING NOTE: REMOVE DRYWALL AND WOOD JOISTS

DEMOLITION PLAN LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING DOOR TO REMAIN
- DEMOLISH PARTITION, DOOR, DOOR FRAME, GLAZING ASSEMBLY, CABINET, SHELVING, FIXTURES SHOWN DASHED U.N.O.
- NO DEMOLITION WORK

CITY OF FORT COLLINS LOCAL AMENDMENTS REGARDING DEMOLITIONS

BUILDINGS OR PORTIONS OF BUILDING WHICH ARE REMOVED SHALL BE PROCESSED IN SUCH A WAY AS TO SAFELY REMOVE ALL ASBESTOS AND LEAD PAINT CONTAMINANTS. FOR ALL DEMOLITIONS, A DEMOLITION WASTE MANAGEMENT PLAN ACCEPTABLE TO THE BUILDING OFFICIAL IS REQUIRED AT THE TIME OF APPLICATION FOR A DEMOLITION PERMIT. ALL METALS, ASPHALT, CONCRETE, AND MASONRY THAT ARE FREE OF ASBESTOS AND LEAD PAINT SHALL BE RECYCLED, AND WHERE POSSIBLE, ALL REMAINING MATERIALS SUCH AS DOORS, WINDOWS, CABINETS AND FIXTURES, WOOD, AND CARDBOARD SHALL BE "SOFT STRIPPED" AND RECYCLED. COMPLIANCE SHALL BE CERTIFIED BY INSPECTION, DOCUMENTATION, AND SIGNED FINAL DEMOLITION WASTE MANAGEMENT PLANS. SUBSTANTIVE CHANGES TO THE PLAN SHALL BE SUBJECT TO PRIOR APPROVAL BY THE BUILDING OFFICIAL.

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

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LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
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DEMOLITION PLANS - NORTH BASEMENT, BASEMENT AND GROUND FLOOR

DRAWING NUMBER:

A0.5

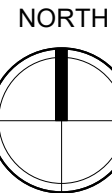
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2

DEMOLITION PLAN - EDUCATION WING - SECOND FLOOR

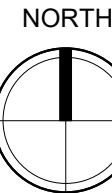
SCALE: 1/8" = 1'-0"



1

DEMOLITION PLAN - EDUCATION WING - FIRST FLOOR

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



DEMO PLAN KEYED NOTES LEGEND

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MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

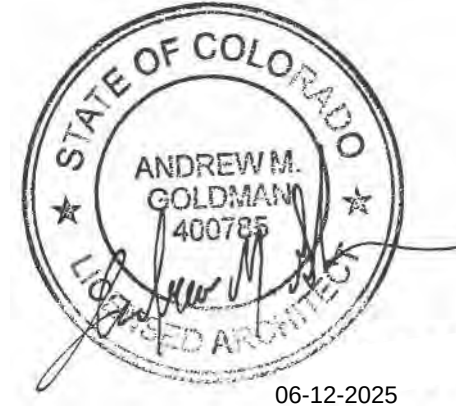
ELECTRICAL ENGINEER:
APS, INC.

ISSUED FOR PERMIT

SHEET ISSUANCES

DESCRIPTION	DATE
DESIGN DEVELOPMENT	04-01-2025
CD CHECK SET	06-04-2025
ISSUED FOR PERMIT	06-11-2025

SEAL:



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DEMOLITON PLANS - FIRST AND SECOND FLOORS

DRAWING NUMBER:

A0.6

Autodesk Docs://First Presbyterian Church/First Presbyterian Church R24 _Central.rvt

6/12/2025 4:47:43 PM



1 DEMOLITION REFLECTED CEILING PLAN - EDUCATION WING - BASEMENT
SCALE: 1/8" = 1'-0"

DEMO PLAN KEYED NOTES LEGEND	DEMOLITION PLAN GENERAL NOTES
1 REMOVE (E) WALL AS INDICATED (VIF) 2 REMOVE (E) WINDOW / FRAME ASSEMBLY (VIF) 3 REMOVE (E) DOOR / JAMB ASSEMBLY (VIF) 3.1 SALVAGE, STORE, PROTECT AND REUSE DOOR HARDWARE 4 AREA OF SLAB CUT; COORDINATE LOCATION WITH EXISTING FLOOR STRUCTURE 5 REMOVE (E) FOUNDATION AS INDICATED, COORD W/ STRUCTURAL DWGS 6 REMOVE (E) FLOOR FINISH AND ALL ASSOCIATED ADHESIVE / GROUT RESIDUE (VIF) 7 REMOVE EXTENT OF (E) CEILING / SOFFIT (VIF) 8 REMOVE (E) CASEWORK / FURNITURE 8.1 REMOVE (E) CASEWORK / FURNITURE. SALVAGE, PROTECT, AND REINSTALL 9 REMOVE EXISTING LOUVER AND REPLACE IT WITH SALVAGED PANEL OF GLASS FROM NORTHWEST CORNER OF EDUCATION WING 10 REMOVE (E) BOILER SYSTEM; RE: ARCH AND MECH DWGS 11 REMOVE (E) WALL BASE 12 REMOVE (E) WINDOW A/C UNIT 13 REMOVE (E) LIGHT FIXTURES, AND ASSOCIATED CONDUIT, J-BOXES, RECEPTACLES, ETC AS REQ'D U.N.O. (VIF), RE: ARCH AND ELEC DWGS 14 REMOVE (E) PLUMBING FIXTURES AND ASSOCIATED PIPING NOT SCHEDULED TO REMAIN; FIELD VERIFY EXTENT OF REMOVAL BACK TO MAIN SERVICE ELEMENTS: COORD W/ ARCH AND PLUMBING DWGS 15 REMOVE / MODIFY (E) HVAC SYSTEM COMPONENTS; COORD EXTENT OF MODIFICATIONS PER ARCH AND MECH DWGS 16 REMOVE (E) WALL FINISH 17 PROVIDE NEW OPENING IN EXISTING WALL (VIF), COORD W/ STRUCT DWGS, ARCH PLANS, AND ELEVATOR SHOP DRAWINGS 18 REMOVE EXTENT OF EXISTING CONCRETE (VIF), COORD W/STRUCT DWGS 19 REMOVE TRUSS TAILS AS SHOWN 20 REMOVE ASPHALT SHINGLES AS SHOWN 21 SALVAGE AND PROTECT ELEMENT AS NOTED FOR USE IN NEW PLAN OR FOR STORAGE WITH OWNER 22 REMOVE GYP. BD. TO ALLOW FOR INSTALLATION OF FIRE SPRINKLER INSTALLATION. 23 REMOVE ABANDONED RADIATORS 24 REMOVE (E) BULLETIN BOARDS 25 REMOVE (E) SHELVES 26 REMOVE & SALVAGE FEC FOR REUSE 27 REMOVE (E) UNIT HEATERS. RE: MECH DRAWINGS 28 REMOVE (E) PTAC UNIT 29 REMOVE CHAIR RAIL 30 REMOVE (E) BULLETIN/CORK BOARD, (E) CHALKBOARD, AND / OR (E) MARKER BOARD. 31 REMOVE HOOKS 32 REMOVE (E) EXTERIOR WALL FINISH 33 PROVIDE NEW OPENING IN EXISTING ROOF 34 REMOVE (E) FIBERGLASS BATT INSULATION 35 SALVAGE WINDOWS FOR POSSIBLE REUSE	1. GC SHALL FIELD VERIFY ALL ITEMS TO BE SALVAGED WITH OWNER PRIOR TO DEMOLITION 2. DEMO/REMOVE EXISTING CONSTRUCTION AS REQUIRED TO ACCOMPLISH INSTALLATION OF NEW BUILDING SYSTEMS AND NEW CONSTRUCTION. PATCH AND REPAIR ALL CONSTRUCTION TO MATCH EXISTING OR TO RECEIVE NEW WORK/FINISHES. GENERAL CONTRACTOR SHALL DETERMINE THE EXTENT OF DEMO REQUIRED. SCOPE OF DEMO EXCEEDS THE SPECIFIC WORK NOTED OR SHOWN ON THIS SHEET. 3. THE CONTRACTOR AND SUB-CONTRACTOR SHALL FIELD INSPECT ALL EXISTING CONDITIONS WHICH MAY REMAIN, IDENTIFY ANY DAMAGED CONDITIONS AND PROVIDE PATCHING AND REPAIR AS REQUIRED. 4. REMOVE ALL EXPOSED PIPING, CONDUIT, AND FIXTURES THAT ARE UNUSED, ABANDONED OR REPLACED WITH NEW WORK AS A PART OF THIS PROJECT WHETHER SPECIFICALLY NOTED OR NOT WITHIN THE BOUNDARY OF THE SCOPE OF WORK. CONFIRM ALL ITEMS WITH OWNER. 5. LEAVE CLEAN, STRAIGHT EDGES WITH NO LOOSE OR CRACKED MATERIAL WHERE NEW FINISHES SUCH AS TRIM OR SEALANT WILL ADJOIN EXISTING FINISHES. 6. REMOVE ANY NON-STRUCTURAL EXPOSED METAL FASTENERS OR WHERE FASTENERS ARE EXPOSED BY DEMOLITION, TYPICAL THROUGHOUT INTERIOR AND EXTERIOR OF THE PROJECT. 7. CLEAN AND PREPARE ALL EXISTING SURFACES TO ACCEPT/RECEIVE NEW WORK. 8. CAP AND SEAL ALL EXISTING UNPLUMBING, MECHANICAL OR ELECTRICAL UTILITIES. CONCEAL WITHIN WALL OR BELOW SLAB. 9. GC SHALL PROVIDE DUST AND SOUND CONTROL AS REQUIRED DURING DEMOLITION AND CONSTRUCTION 10. REMOVE AND REPLACE ANY CONCRETE OR ASPHALT AS REQUIRED TO COMPLETE THE REQUIRED WORK. 11. SAW CUT AND REPLACE CONCRETE SLAB ON GRADE FLOOR AS REQUIRED FOR INSTALL OF PLUMBING, ELECTRICAL AND OTHER BUILDING SYSTEMS. SEE ELECTRICAL, MECHANICAL AND PLUMBING SHEETS FOR LOCATIONS. 12. STRIP AND SAND METAL RAILINGS AS REQUIRED FOR NEW PAINT AS INDICATED ON FINISH PLANS. 13. CUT SLAB ON EITHER SIDE OF BAR JOISTS. V.I.F. 14. REMOVE (E) CHAIR RAILS, (E) TACKSTRIPS, WHITEBOARDS, CHALKBOARDS / BULLETIN BOARDS IN HALLWAYS, TYPICAL. 15. REMOVE ALL TELEVISIONS, TYPICAL. 16. REMOVE ALL (E) BULLETIN BOARDS, (E)CHALK BOARDS, & (E) MARKER BOARDS, TYPICAL. 17. EXISTING CEILING NOTE: REMOVE DRYWALL AND WOOD JOISTS
	DEMOLITION PLAN LEGEND  EXISTING PARTITION TO REMAIN  EXISTING DOOR TO REMAIN  DEMOLISH PARTITION, DOOR, DOOR FRAME, GLAZING ASSEMBLY, CABINET, SHELVING, FIXTURES SHOWN DASHED U.N.O.  NO DEMOLITION WORK
	CITY OF FORT COLLINS LOCAL AMENDMENTS REGARDING DEMOLITIONS BUILDINGS OR PORTIONS OF BUILDING WHICH ARE REMOVED SHALL BE PROCESSED IN SUCH A WAY AS TO SAFELY REMOVE ALL ASBESTOS AND LEAD PAINT CONTAMINANTS. FOR ALL DEMOLITIONS, A DEMOLITION WASTE MANAGEMENT PLAN ACCEPTABLE TO THE BUILDING OFFICIAL IS REQUIRED AT THE TIME OF APPLICATION FOR A DEMOLITION PERMIT. ALL METALS, ASPHALT, CONCRETE, AND MASONRY THAT ARE FREE OF ASBESTOS AND LEAD PAINT SHALL BE RECYCLED, AND WHERE POSSIBLE, ALL REMAINING MATERIALS SUCH AS DOORS, WINDOWS, CABINETS AND FIXTURES, WOOD, AND CARDBOARD SHALL BE "SOFT STRIPPED" AND RECYCLED. COMPLIANCE SHALL BE CERTIFIED BY INSPECTION, DOCUMENTATION, AND SIGNED FINAL DEMOLITION WASTE MANAGEMENT PLANS. SUBSTANTIVE CHANGES TO THE PLAN SHALL BE SUBJECT TO PRIOR APPROVAL BY THE BUILDING OFFICIAL.

1. GC SHALL FIELD VERIFY ALL ITEMS TO BE SALVAGED WITH OWNER PRIOR TO DEMOLITION

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3. THE CONTRACTOR AND SUB-CONTRACTOR SHALL FIELD INSPECT ALL EXISTING CONDITIONS WHICH MAY REMAIN, IDENTIFY ANY DAMAGED CONDITIONS AND PROVIDE PATCHING AND REPAIR AS REQUIRED.

4. REMOVE ALL EXPOSED PIPING, CONDUIT, AND FIXTURES THAT ARE UNUSED, ABANDONED OR REPLACED WITH NEW WORK AS A PART OF THIS PROJECT WHETHER SPECIFICALLY NOTED OR NOT WITHIN THE BOUNDARY OF THE SCOPE OF WORK. CONFIRM ALL ITEMS WITH OWNER.

5. LEAVE CLEAN, STRAIGHT EDGES WITH NO LOOSE OR CRACKED MATERIAL WHERE NEW FINISHES SUCH AS TRIM OR SEALANT WILL ADJOIN EXISTING FINISHES.

6. REMOVE ANY NON-STRUCTURAL EXPOSED METAL FASTENERS OR WHERE FASTENERS ARE EXPOSED BY DEMOLITION, TYPICAL THROUGHOUT INTERIOR AND EXTERIOR OF THE PROJECT.

7. CLEAN AND PREPARE ALL EXISTING SURFACES TO ACCEPT/RECEIVE NEW WORK.

8. CAP AND SEAL ALL EXISTING UNUSED PLUMBING, MECHANICAL OR ELECTRICAL UTILITIES. CONCEAL WITHIN WALL OR BELOW SLAB.

9. GC SHALL PROVIDE DUST AND SOUND CONTROL AS REQUIRED DURING DEMOLITION AND CONSTRUCTION

10. REMOVE AND REPLACE ANY CONCRETE OR ASPHALT AS REQUIRED TO COMPLETE THE REQUIRED WORK.

11. SAW CUT AND REPLACE CONCRETE SLAB ON GRADE FLOOR AS REQUIRED FOR INSTALL OF PLUMBING, ELECTRICAL AND OTHER BUILDING SYSTEMS. SEE ELECTRICAL, MECHANICAL AND PLUMBING SHEETS FOR LOCATIONS.

12. STRIP AND SAND METAL RAILINGS AS REQUIRED FOR NEW PAINT AS INDICATED ON FINISH PLANS.

13. CUT SLAB ON EITHER SIDE OF BAR JOISTS. V.I.F.

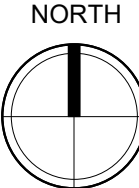
14. REMOVE (E) CHAIR RAILS, (E) TACKSTRIPS, WHITEBOARDS, CHALKBOARDS / BULLETIN BOARDS IN HALLWAYS. TYPICAL.

15. REMOVE ALL TELEVISIONS, TYPICAL.

16. REMOVE ALL (E) BULLETIN BOARDS, (E)CHALK BOARDS, & (E) MARKER BOARDS, TYPICAL.

17. EXISTING CEILING NOTE: REMOVE DRYWALL AND WOOD JOISTS

WOOD FURRING UNDER BAR JOISTS SHALL REMAIN FOR REUSE WHEN GYP. BOARD CEILING IS REINSTALLED



PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524

VFLA

ARCHITECTURE + INTERIORS

419 CANYON AVE STE 200, FORT COLLINS, CO 80521
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

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SEAL:

STATE OF COLORADO

ANDREW M. GOLDMAN
400788

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DEMOLITON REFLECTED CEILING PLAN - BASEMENT FLOOR

DRAWING NUMBER:

A0.8

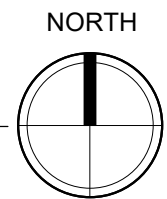
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2

DEMOLITION REFLECTED CEILING PLAN - EDUCATION WING - SECOND FLOOR

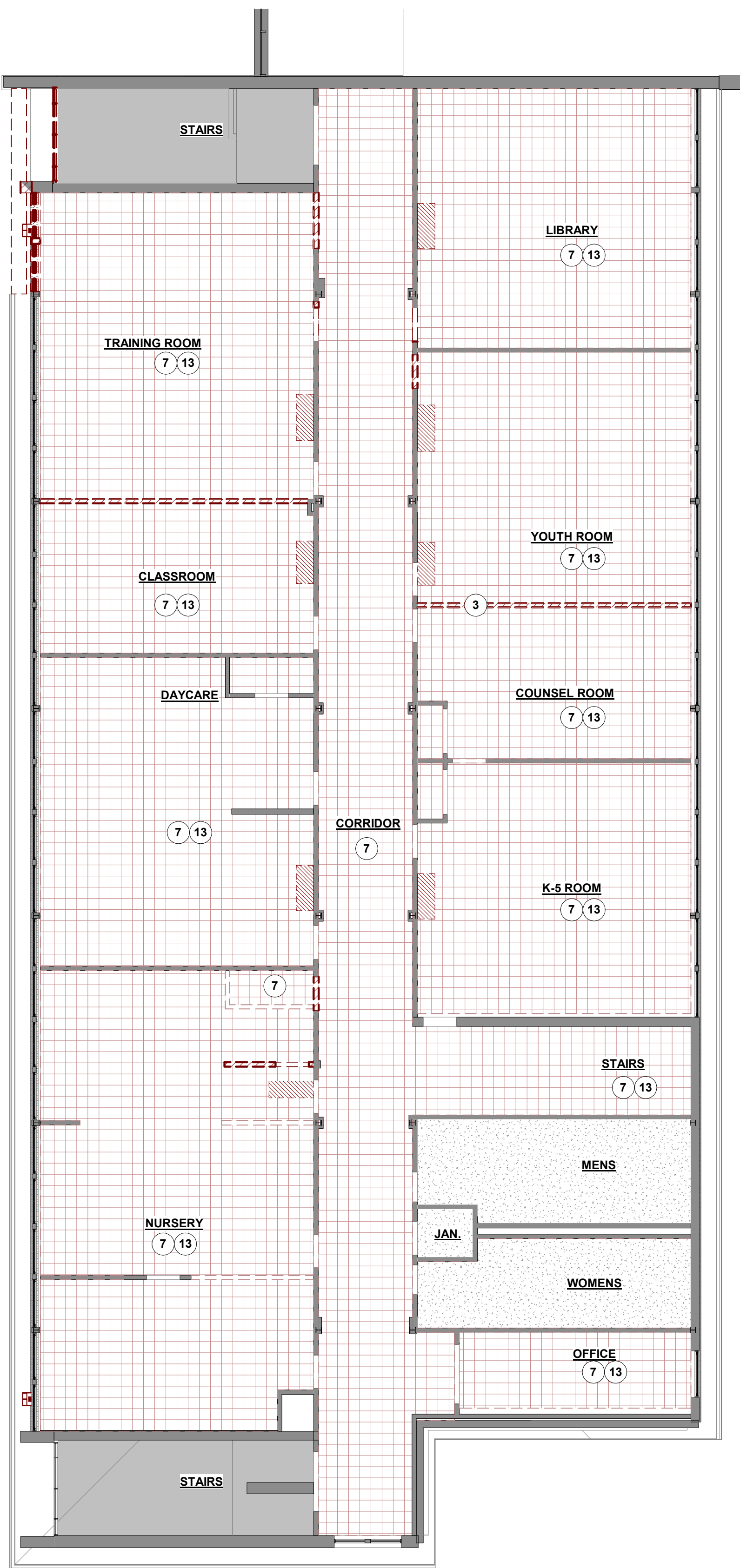
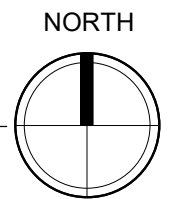
SCALE: 1/8" = 1'-0"



1

DEMOLITION REFLECTED CEILING PLAN EDUCATION WING - FIRST FLOOR

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



DEMO PLAN KEYED NOTES LEGEND

- 1 REMOVE (E) WALL AS INDICATED (VIF)
- 2 REMOVE (E) WINDOW / FRAME ASSEMBLY (VIF)
- 3 REMOVE (E) DOOR / JAMB ASSEMBLY (VIF)
- 3.1 SALVAGE, STORE, PROTECT AND REUSE DOOR HARDWARE
- 4 AREA OF SLAB CUT; COORDINATE LOCATION WITH EXISTING FLOOR STRUCTURE
- 5 REMOVE (E) FOUNDATION AS INDICATED, COORD W/ STRUCTURAL DWGS
- 6 REMOVE (E) FLOOR FINISH AND ALL ASSOCIATED ADHESIVE / GROUT RESIDUE (VIF)
- 7 REMOVE EXTENT OF (E) CEILING / SOFFIT (VIF)
- 8 REMOVE (E) CASEWORK / FURNITURE
- 8.1 REMOVE (E) CASEWORK / FURNITURE. SALVAGE, PROTECT, AND REINSTALL
- 9 REMOVE EXISTING LOUVER AND REPLACE IT WITH SALVAGED PANEL OF GLASS FROM NORTHWEST CORNER OF EDUCATION WING
- 10 REMOVE (E) BOILER SYSTEM; RE: ARCH AND MECH DWGS
- 11 REMOVE (E) WALL BASE
- 12 REMOVE (E) WINDOW A/C UNIT
- 13 REMOVE (E) LIGHT FIXTURES, AND ASSOCIATED CONDUIT, J-BOXES, RECEPTACLES, ETC AS REQ'D U.N.O. (VIF), RE: ARCH AND ELEC DWGS
- 14 REMOVE (E) PLUMBING FIXTURES AND ASSOCIATED PIPING NOT SCHEDULED TO REMAIN; FIELD VERIFY EXTENT OF REMOVAL BACK TO MAIN SERVICE ELEMENTS: COORD W/ ARCH AND PLUMBING DWGS
- 15 REMOVE / MODIFY (E) HVAC SYSTEM COMPONENTS; COORD EXTENT OF MODIFICATIONS PER ARCH AND MECH DWGS
- 16 REMOVE (E) WALL FINISH
- 17 PROVIDE NEW OPENING IN EXISTING WALL (VIF), COORD W/ STRUCT DWGS, ARCH PLANS, AND ELEVATOR SHOP DRAWINGS
- 18 REMOVE EXTENT OF EXISTING CONCRETE (VIF), COORD W/STRUCT DWGS
- 19 REMOVE TRUSS TAILS AS SHOWN
- 20 REMOVE ASPHALT SHINGLES AS SHOWN
- 21 SALVAGE AND PROTECT ELEMENT AS NOTED FOR USE IN NEW PLAN OR FOR STORAGE WITH OWNER
- 22 REMOVE GYP. BD. TO ALLOW FOR INSTALLATION OF FIRE SPRINKLER INSTALLATION.
- 23 REMOVE ABANDONED RADIATORS
- 24 REMOVE (E) BULLETIN BOARDS
- 25 REMOVE (E) SHELVES
- 26 REMOVE & SALVAGE FEC FOR REUSE
- 27 REMOVE (E) UNIT HEATERS. RE: MECH DRAWINGS
- 28 REMOVE (E) PTAC UNIT
- 29 REMOVE CHAIR RAIL
- 30 REMOVE (E) BULLETIN/CORK BOARD, (E) CHALKBOARD, AND / OR (E) MARKER BOARD.
- 31 REMOVE HOOKS
- 32 REMOVE (E) EXTERIOR WALL FINISH
- 33 PROVIDE NEW OPENING IN EXISTING ROOF
- 34 REMOVE (E) FIBERGLASS BATT INSULATION
- 35 SALVAGE WINDOWS FOR POSSIBLE REUSE

DEMOLITION PLAN GENERAL NOTES

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15. REMOVE ALL TELEVISIONS, TYPICAL.
16. REMOVE ALL (E) BULLETIN BOARDS, (E)CHALK BOARDS, & (E) MARKER BOARDS, TYPICAL.
17. EXISTING CEILING NOTE: REMOVE DRYWALL AND WOOD JOISTS

DEMOLITION PLAN LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING DOOR TO REMAIN
- DEMOLISH PARTITION, DOOR, DOOR FRAME, GLAZING ASSEMBLY, CABINET, SHELVING, FIXTURES SHOWN DASHED U.N.O.
- NO DEMOLITION WORK

CITY OF FORT COLLINS LOCAL AMENDMENTS REGARDING DEMOLITIONS

BUILDINGS OR PORTIONS OF BUILDING WHICH ARE REMOVED SHALL BE PROCESSED IN SUCH A WAY AS TO SAFELY REMOVE ALL ASBESTOS AND LEAD PAINT CONTAMINANTS. FOR ALL DEMOLITIONS, A DEMOLITION WASTE MANAGEMENT PLAN ACCEPTABLE TO THE BUILDING OFFICIAL IS REQUIRED AT THE TIME OF APPLICATION FOR A DEMOLITION PERMIT. ALL METALS, ASPHALT, CONCRETE, AND MASONRY THAT ARE FREE OF ASBESTOS AND LEAD PAINT SHALL BE RECYCLED, AND WHERE POSSIBLE, ALL REMAINING MATERIALS SUCH AS DOORS, WINDOWS, CABINETS AND FIXTURES, WOOD, AND CARDBOARD SHALL BE "SOFT STRIPPED" AND RECYCLED. COMPLIANCE SHALL BE CERTIFIED BY INSPECTION, DOCUMENTATION, AND SIGNED FINAL DEMOLITION WASTE MANAGEMENT PLANS. SUBSTANTIVE CHANGES TO THE PLAN SHALL BE SUBJECT TO PRIOR APPROVAL BY THE BUILDING OFFICIAL.

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

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VFLA
ARCHITECTURE + INTERIORS

419 CANYON AVE STE 200, FORT COLLINS, CO 80521
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
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PROJECT TEAM

CIVIL ENGINEER:
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LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
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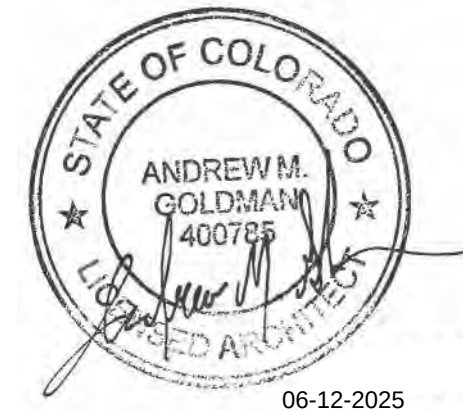
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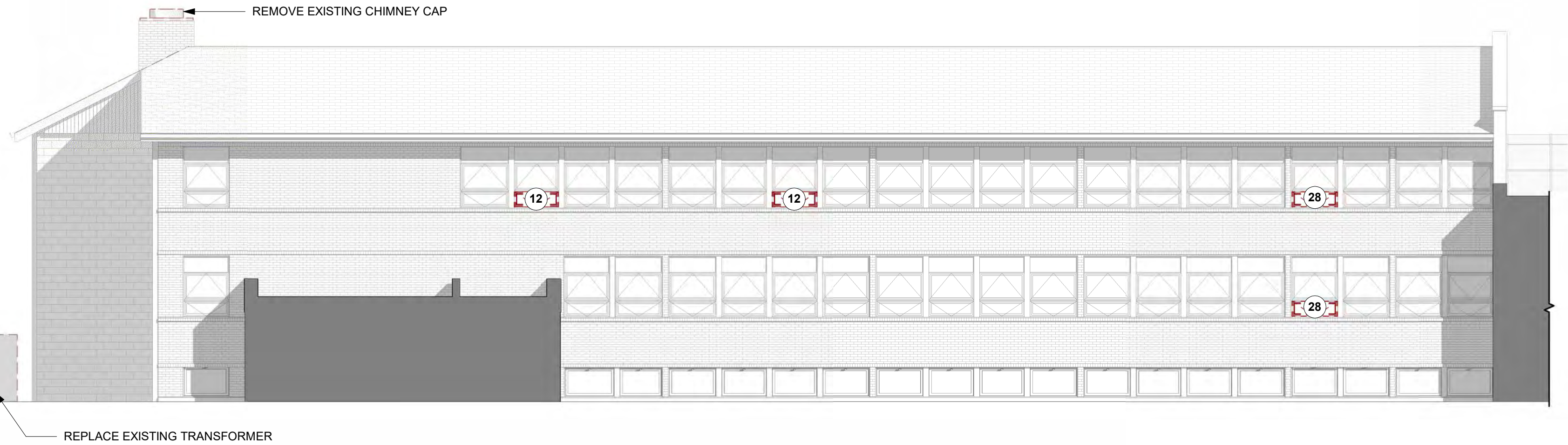
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DEMOLITON REFLECTED CEILING PLANS - FIRST AND SECOND FLOORS

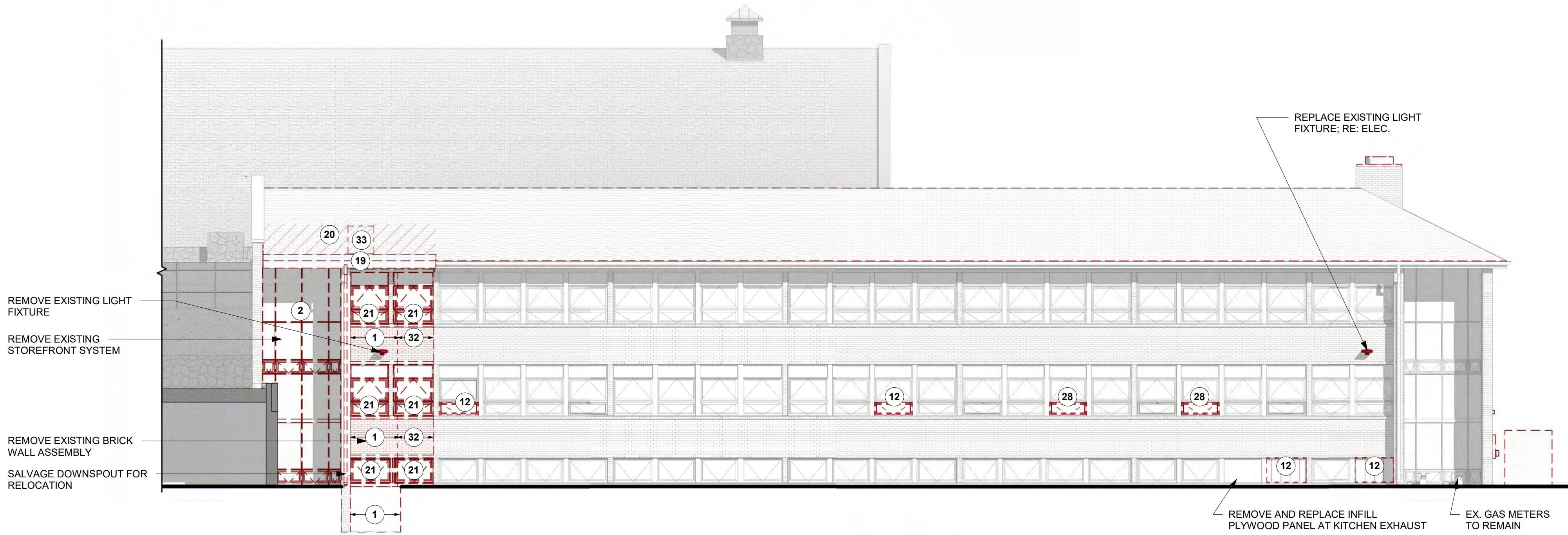
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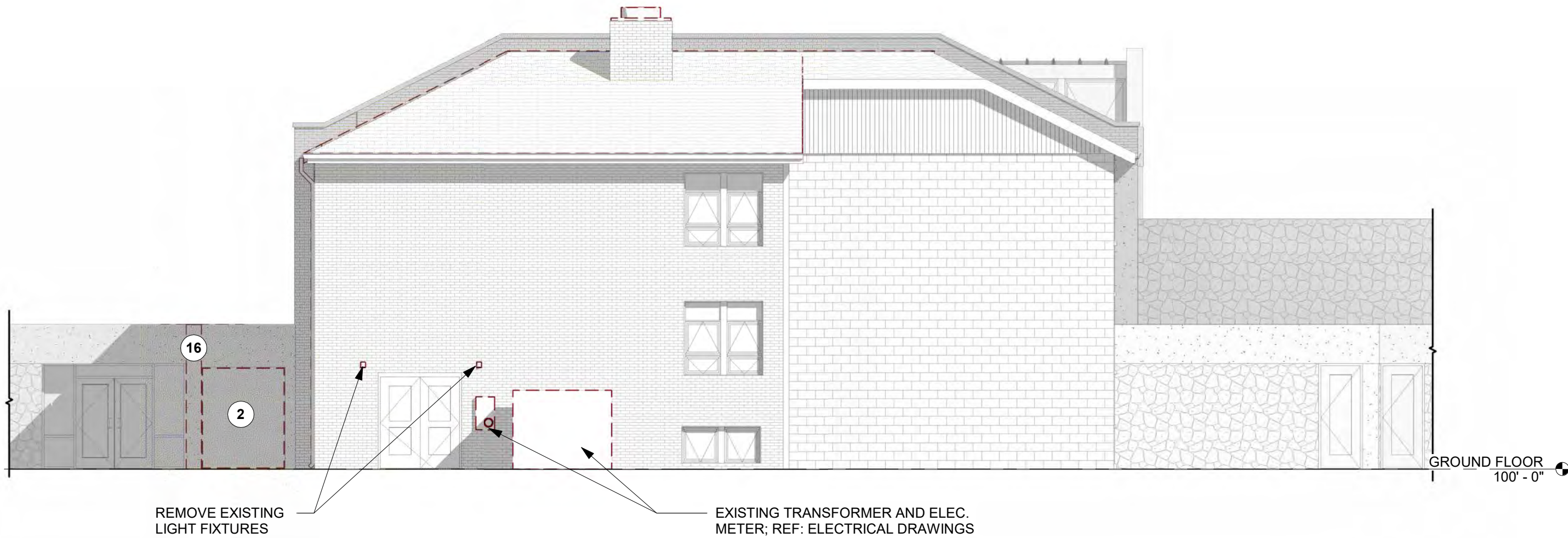
3 DEMOLITION EAST ELEVATION

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



2 DEMOLITION WEST ELEVATION

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



1 DEMOLITION SOUTH ELEVATION

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

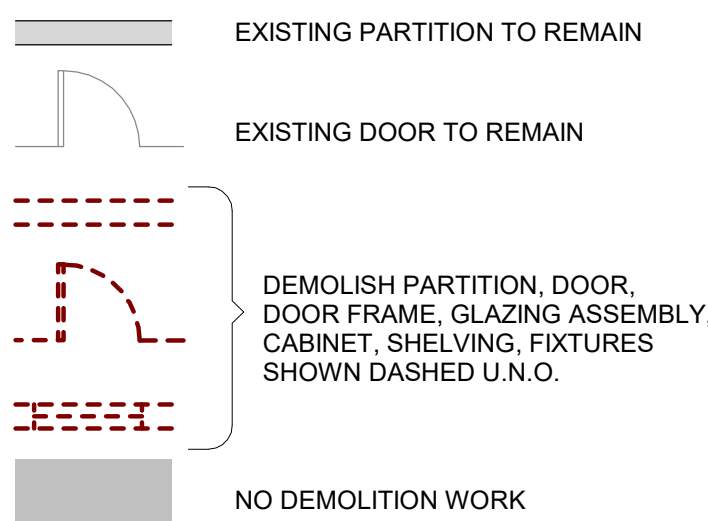
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- THE CONTRACTOR AND SUB-CONTRACTOR SHALL FIELD INSPECT ALL EXISTING CONDITIONS WHICH MAY REMAIN, IDENTIFY ANY DAMAGED CONDITIONS AND PROVIDE PATCHING AND REPAIR AS REQUIRED.
- REMOVE ALL EXPOSED PIPING, CONDUIT, AND FIXTURES THAT ARE UNUSED, ABANDONED OR REPLACED WITH NEW WORK AS A PART OF THIS PROJECT WHETHER SPECIFICALLY NOTED OR NOT WITHIN THE BOUNDARY OF THE SCOPE OF WORK. CONFIRM ALL ITEMS WITH OWNER.
- LEAVE CLEAN, STRAIGHT EDGES WITH NO LOOSE OR CRACKED MATERIAL WHERE NEW FINISHES SUCH AS TRIM OR SEALANT WILL ADJOIN EXISTING FINISHES.
- REMOVE ANY NON-STRUCTURAL EXPOSED METAL FASTENERS OR WHERE FASTENERS ARE EXPOSED BY DEMOLITION, TYPICAL THROUGHOUT INTERIOR AND EXTERIOR OF THE PROJECT.
- CLEAN AND PREPARE ALL EXISTING SURFACES TO ACCEPT/RECEIVE NEW WORK.
- CAP AND SEAL ALL EXISTING UNUSED PLUMBING, MECHANICAL OR ELECTRICAL UTILITIES. CONCEAL WITHIN WALL OR BELOW SLAB.
- GC SHALL PROVIDE DUST AND SOUND CONTROL AS REQUIRED DURING DEMOLITION AND CONSTRUCTION
- REMOVE AND REPLACE ANY CONCRETE OR ASPHALT AS REQUIRED TO COMPLETE THE REQUIRED WORK.
- SAW CUT AND REPLACE CONCRETE SLAB ON GRADE FLOOR AS REQUIRED FOR INSTALL OF PLUMBING, ELECTRICAL AND OTHER BUILDING SYSTEMS. SEE ELECTRICAL, MECHANICAL AND PLUMBING SHEETS FOR LOCATIONS.
- STRIP AND SAND METAL RAILINGS AS REQUIRED FOR NEW PAINT AS INDICATED ON FINISH PLANS.
- CUT SLAB ON EITHER SIDE OF BAR JOISTS. V.I.F.
- REMOVE (E) CHAIR RAILS, (E) TACKSTRIPS, WHITEBOARDS, CHALKBOARDS / BULLETIN BOARDS IN HALLWAYS, TYPICAL.
- REMOVE ALL TELEVISIONS, TYPICAL.
- REMOVE ALL (E) BULLETIN BOARDS, (E)CHALK BOARDS, & (E) MARKER BOARDS, TYPICAL.
- EXISTING CEILING NOTE: REMOVE DRYWALL AND WOOD JOISTS

DEMOLITION PLAN LEGEND



CITY OF FORT COLLINS LOCAL AMENDMENTS REGARDING DEMOLITIONS

BUILDINGS OR PORTIONS OF BUILDING WHICH ARE REMOVED SHALL BE PROCESSED IN SUCH A WAY AS TO SAFELY REMOVE ALL ASBESTOS AND LEAD PAINT CONTAMINANTS. FOR ALL DEMOLITIONS, A DEMOLITION WASTE MANAGEMENT PLAN ACCEPTABLE TO THE BUILDING OFFICIAL IS REQUIRED AT THE TIME OF APPLICATION FOR A DEMOLITION PERMIT. ALL METALS, ASPHALT, CONCRETE, AND MASONRY THAT ARE FREE OF ASBESTOS AND LEAD PAINT SHALL BE RECYCLED, AND WHERE POSSIBLE, ALL REMAINING MATERIALS SUCH AS DOORS, WINDOWS, CABINETS AND FIXTURES, WOOD, AND CARDBOARD SHALL BE "SOFT STRIPPED" AND RECYCLED. COMPLIANCE SHALL BE CERTIFIED BY INSPECTION, DOCUMENTATION, AND SIGNED FINAL DEMOLITION WASTE MANAGEMENT PLANS. SUBSTANTIVE CHANGES TO THE PLAN SHALL BE SUBJECT TO PRIOR APPROVAL BY THE BUILDING OFFICIAL.

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

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970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

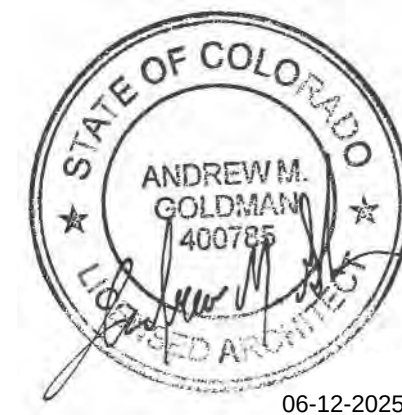
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ELECTRICAL ENGINEER:
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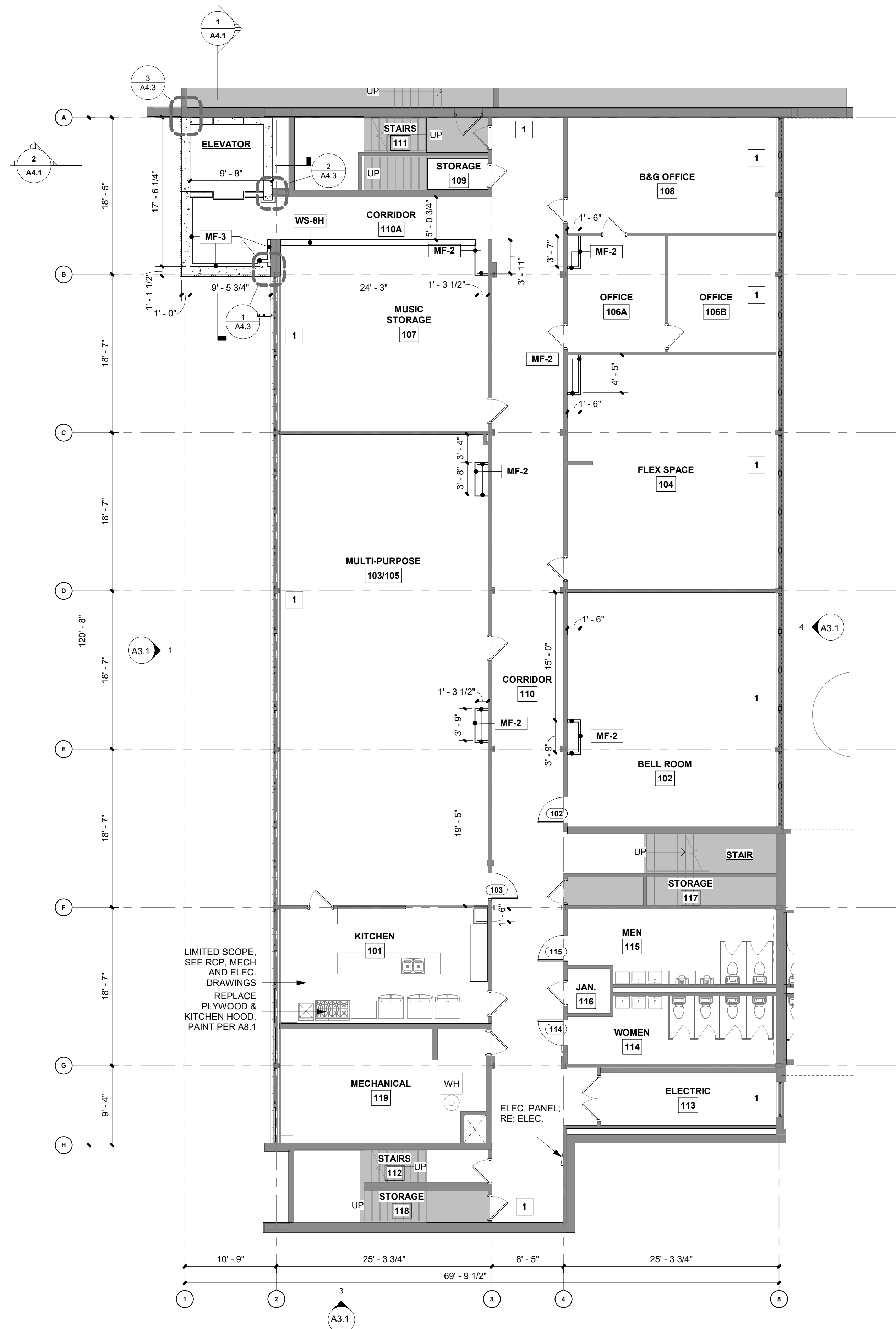
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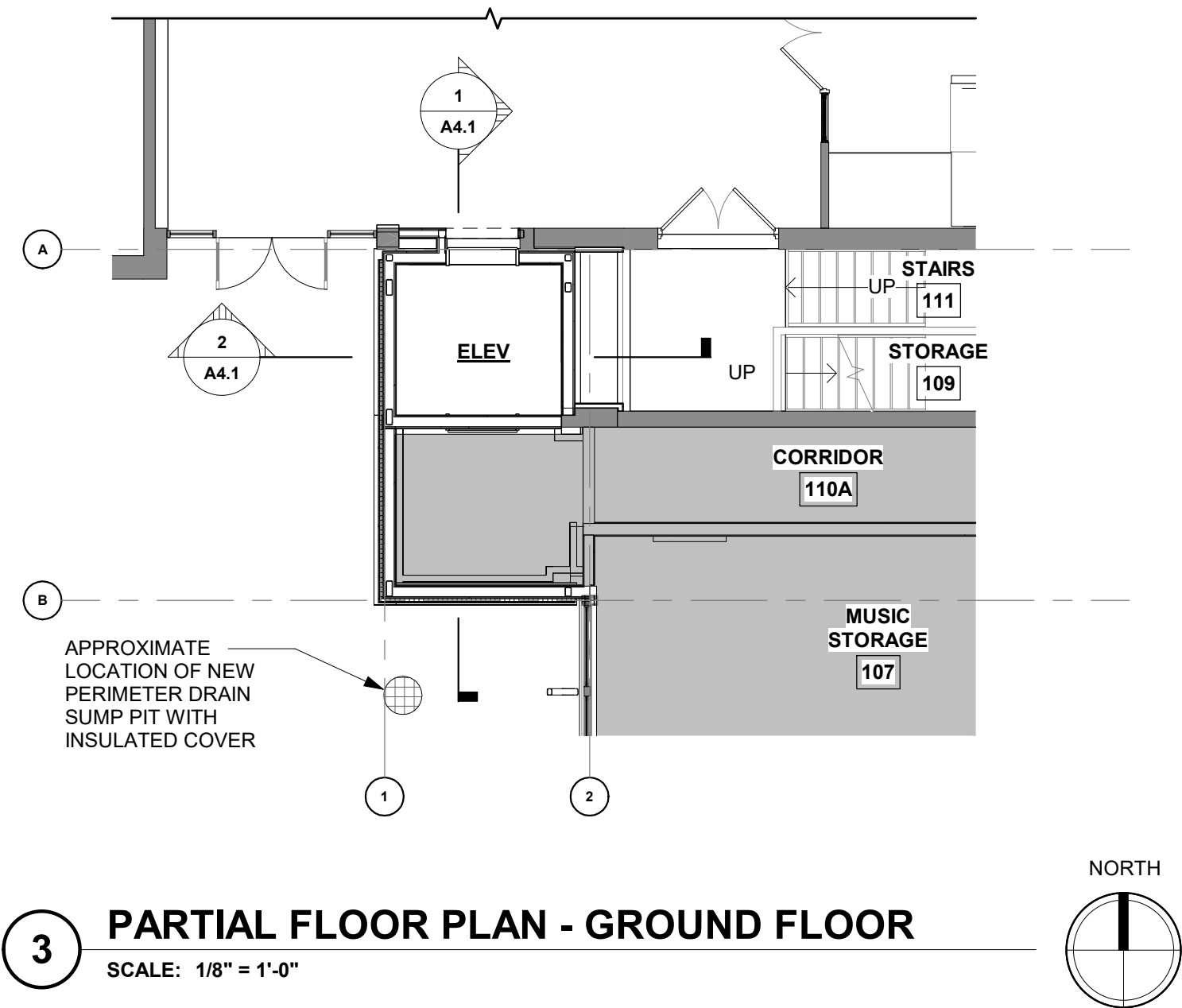
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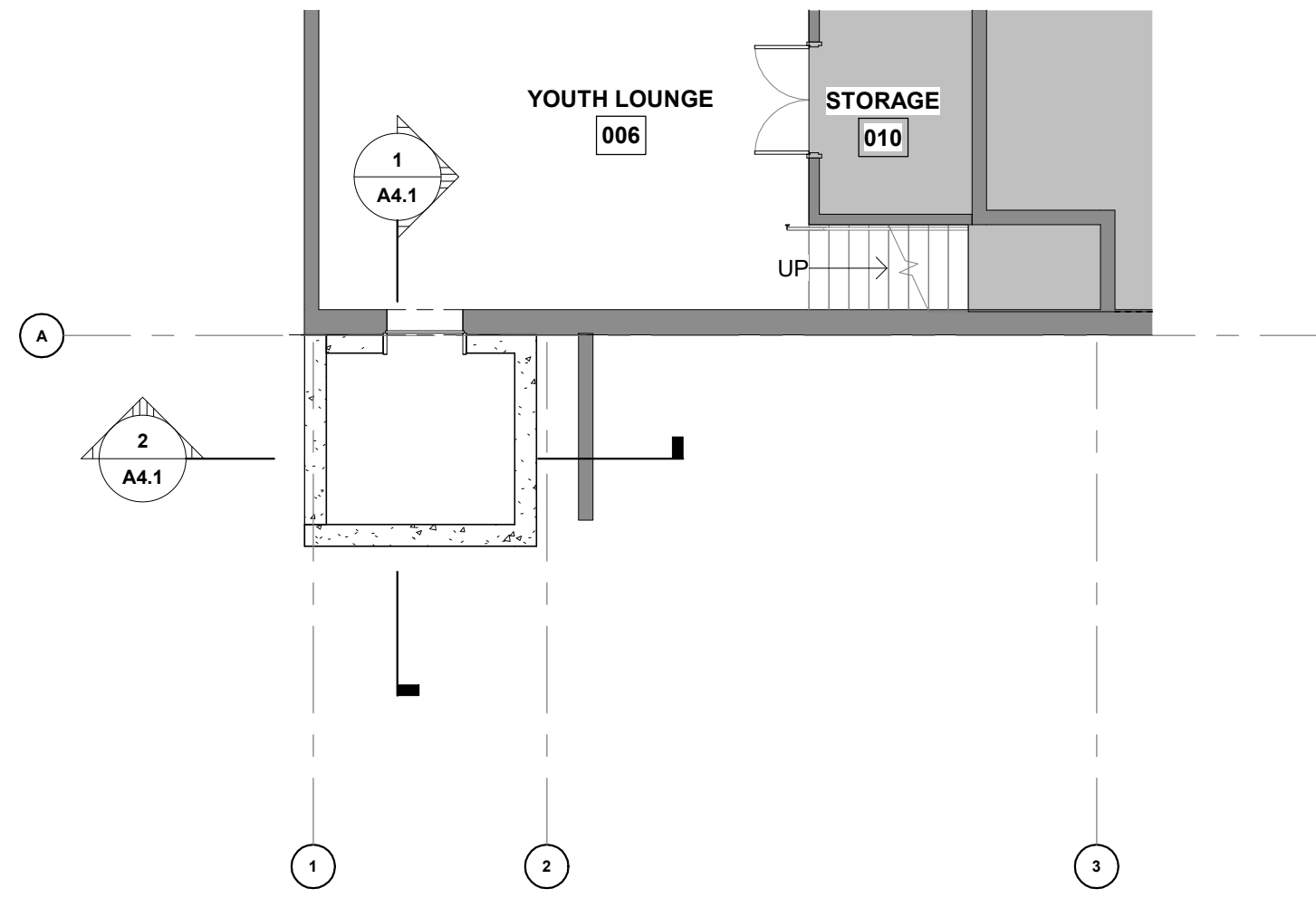
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2 FLOOR PLAN - EDUCATION WING - BASEMENT
SCALE: 1/8" = 1'-0"



3 PARTIAL FLOOR PLAN - GROUND FLOOR
SCALE: 1/8" = 1'-0"



1 PARTIAL FLOOR PLAN - NORTH BASEMENT
SCALE: 1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO SHEET G0.3 FOR SYSTEM NOTES
2. REFER TO A7.1 FOR DOOR AND WINDOW SCHEDULE
3. PARTITIONS SHALL BE "WS-4" U.N.O. SEE SHEET G0.3 FOR PARTITION SCHEDULE
4. REFER TO WALL SECTIONS FOR EXTERIOR WALL ASSEMBLY TYPES, TYP
5. ALL SCHEDULED INTERIOR DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE 4" MIN FROM THE ADJACENT WALL FACE OF FINISH, U.N.O.
6. ALL EXPOSED SLAB-ON-GRADE JOINTS, INCLUDING PERIMETER JOINTS, SHALL BE FILLED WITH SEALANT; GC SHALL VERIFY SEALANT COLOR WITH ARCHITECT FOR ALL JOINTS EXPOSED TO VIEW
7. GC SHALL PRIME AND PAINT ALL EXPOSED EXISTING STEEL JOISTS & DECK. RE: A8.0 FOR COLOR
8. GC SHALL COORDINATE LOCATION AND EXTENT OF PLYWOOD BACKING AND/OR 2x BLOCKING AT ALL SCHEDULED ACCESSORY LOCATIONS INCLUDING BUT NOT LIMITED TO EQUIPMENT, TOILET ACCESSORIES, RESTROOM PARTITIONS, GRAB BARS, HANDRAILS, SHELVES, WALL-MOUNTED CABINETS, CLOSET RODS, MOUNTING BRACKETS, SHOWER ENCLOSURES AND WALL-MOUNTED TV'S
9. FLOOR FINISHES LEFT OFF PLAN FOR CLARITY. REFER TO SHEET A8.1 FOR FINISH PLANS
10. CONTROL JOINTS IN GYP WALLS AND CEILINGS SHALL BE INSTALLED EVERY 30' MAX PER MANUFACTURER
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FLOOR PLAN LEGEND

- EXISTING WALLS TO REMAIN
- NEW PARTITIONS/WALLS. SEE SCHEDULE FOR TYPE.
- FLOOR DRAIN: SEE PLUMBING DRAWINGS FOR TYPE. REMOVE (E) CONCRETE FLOOR AS REQUIRED TO INSTALL
- WATER HEATER
SEE PLUMBING DRAWINGS FOR TYPE
- NO WORK THIS AREA (NOT IN SCOPE)
- FIRE EXTINGUISHER CABINET

KEYNOTES LEGEND

- 1 PATCH AND REPAIR WALL. FINISH BEHIND REMOVED RADIATORS. PAINT, TYP. ALL REMOVED RADIATOR LOCATIONS.
- 2 LOW WALL WITH COUNTERTOP HEIGHT WOOD WALL CAP, STAIN.

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CHURCH -
EDUCATION WING
RENOVATION**

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VFLA
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INTEGRATED MEP

MECHANICAL & PLUMBING ENGINEER:
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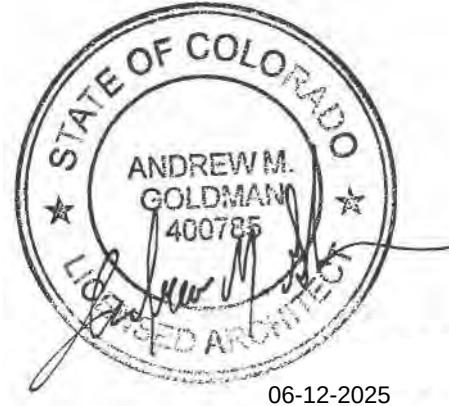
ELECTRICAL ENGINEER:
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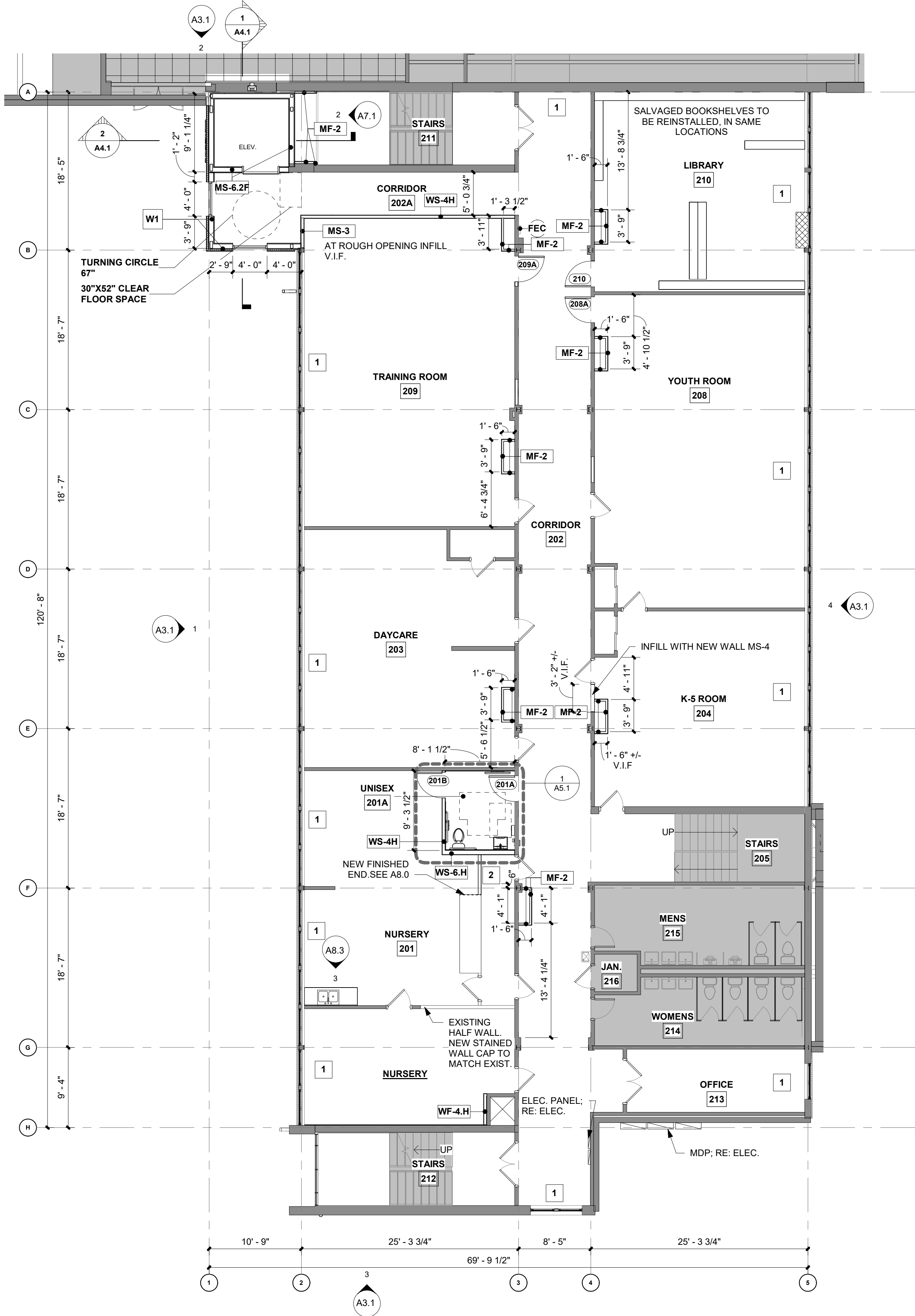
**FLOOR PLANS -
BASEMENT, FIRST
AND GROUND FLOOR**

DRAWING NUMBER:

A1.1

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2 FLOOR PLAN - EDUCATION WING - FIRST FLOOR
SCALE: 1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO SHEET G0.3 FOR SYSTEM NOTES
2. REFER TO A7.1 FOR DOOR AND WINDOW SCHEDULE
3. PARTITIONS SHALL BE "WS-4" U.N.O. SEE SHEET G0.3 FOR PARTITION SCHEDULE
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FLOOR PLAN LEGEND

- EXISTING WALLS TO REMAIN
- NEW PARTITIONS/WALLS. SEE SCHEDULE FOR TYPE.
- FLOOR DRAIN: SEE PLUMBING DRAWINGS FOR TYPE. REMOVE (E) CONCRETE FLOOR AS REQUIRED TO INSTALL
- WATER HEATER
SEE PLUMBING DRAWINGS FOR TYPE
- NO WORK THIS AREA (NOT IN SCOPE)
- FIRE EXTINGUISHER CABINET

KEYNOTES LEGEND

- 1 PATCH AND REPAIR WALL. FINISH BEHIND REMOVED RADIATORS. PAINT, TYP. ALL REMOVED RADIATOR LOCATIONS.
- 2 LOW WALL WITH COUNTERTOP HEIGHT WOOD WALL CAP, STAIN.

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FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

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RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

ELECTRICAL ENGINEER:
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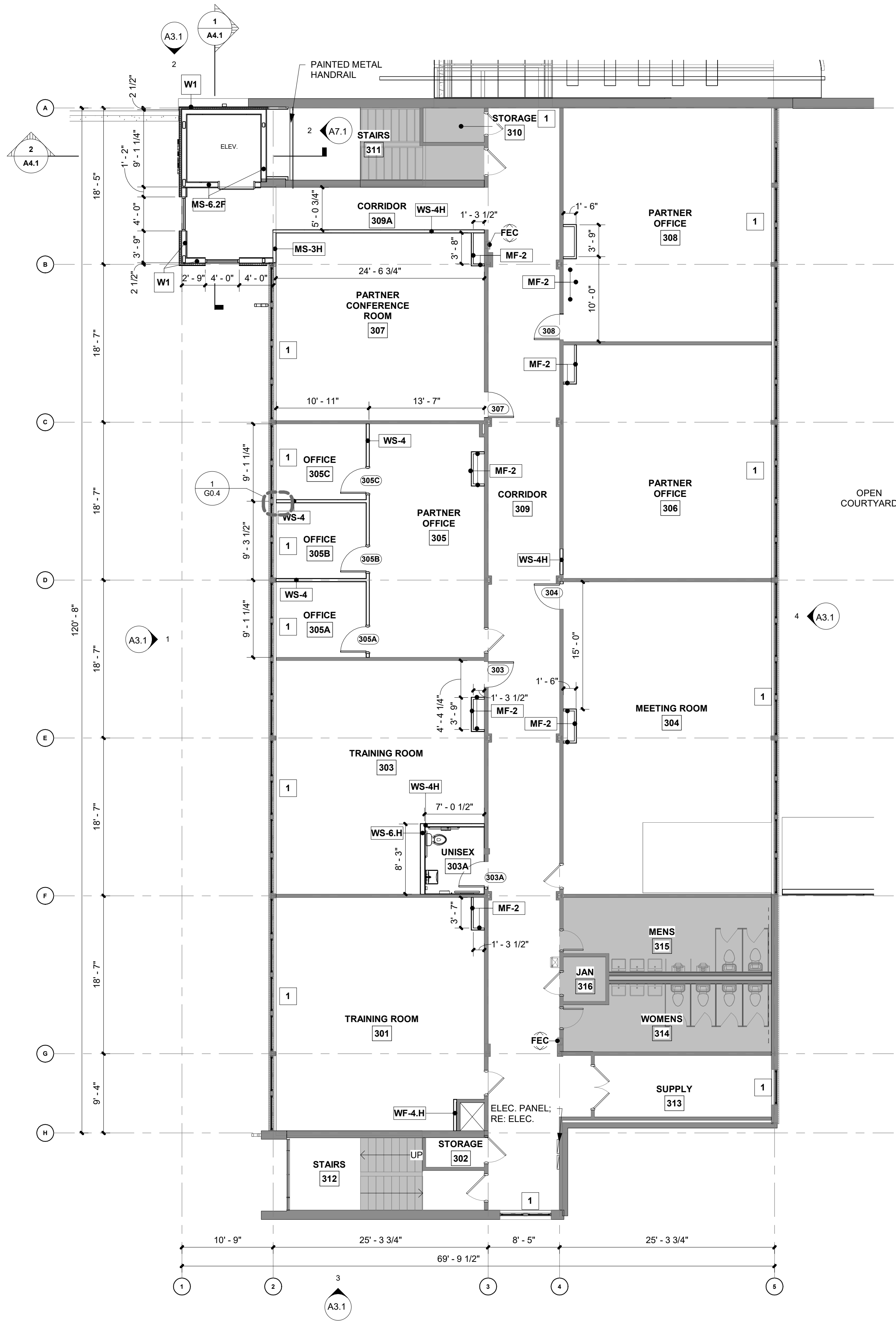
FLOOR PLANS - FIRST FLOOR

DRAWING NUMBER:

A1.2

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1 FLOOR PLAN - EDUCATION WING - SECOND FLOOR
SCALE: 1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFER TO SHEET G0.3 FOR SYSTEM NOTES
2. REFER TO A7.1 FOR DOOR AND WINDOW SCHEDULE
3. PARTITIONS SHALL BE "WS-4" U.N.O. SEE SHEET G0.3 FOR PARTITION SCHEDULE
4. REFER TO WALL SECTIONS FOR EXTERIOR WALL ASSEMBLY TYPES, TYP
5. ALL SCHEDULED INTERIOR DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE 4" MIN FROM THE ADJACENT WALL FACE OF FINISH, U.N.O.
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FLOOR PLAN LEGEND

- EXISTING WALLS TO REMAIN
- NEW PARTITIONS/WALLS. SEE SCHEDULE FOR TYPE.
- FLOOR DRAIN: SEE PLUMBING DRAWINGS FOR TYPE. REMOVE (E) CONCRETE FLOOR AS REQUIRED TO INSTALL
- WATER HEATER
SEE PLUMBING DRAWINGS FOR TYPE
- NO WORK THIS AREA (NOT IN SCOPE)
- FIRE EXTINGUISHER CABINET

KEYNOTES LEGEND

- 1 PATCH AND REPAIR WALL. FINISH BEHIND REMOVED RADIATORS. PAINT, TYP. ALL REMOVED RADIATOR LOCATIONS.
- 2 LOW WALL WITH COUNTERTOP HEIGHT WOOD WALL CAP, STAIN.

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FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

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RIPLEY DESIGN

STRUCTURAL ENGINEER:
INTEGRATED MEP

MECHANICAL & PLUMBING ENGINEER:
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ELECTRICAL ENGINEER:
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FLOOR PLANS - SECOND FLOOR

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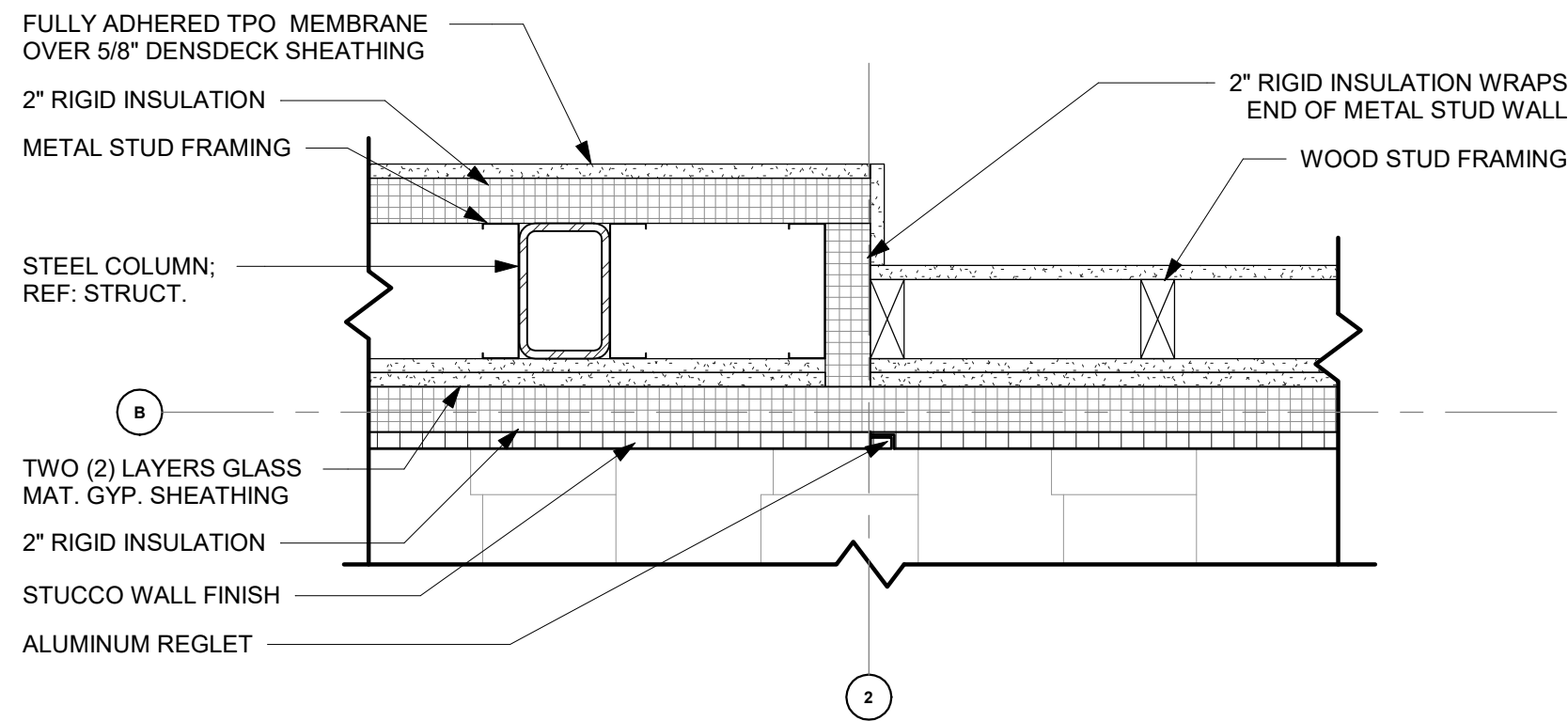
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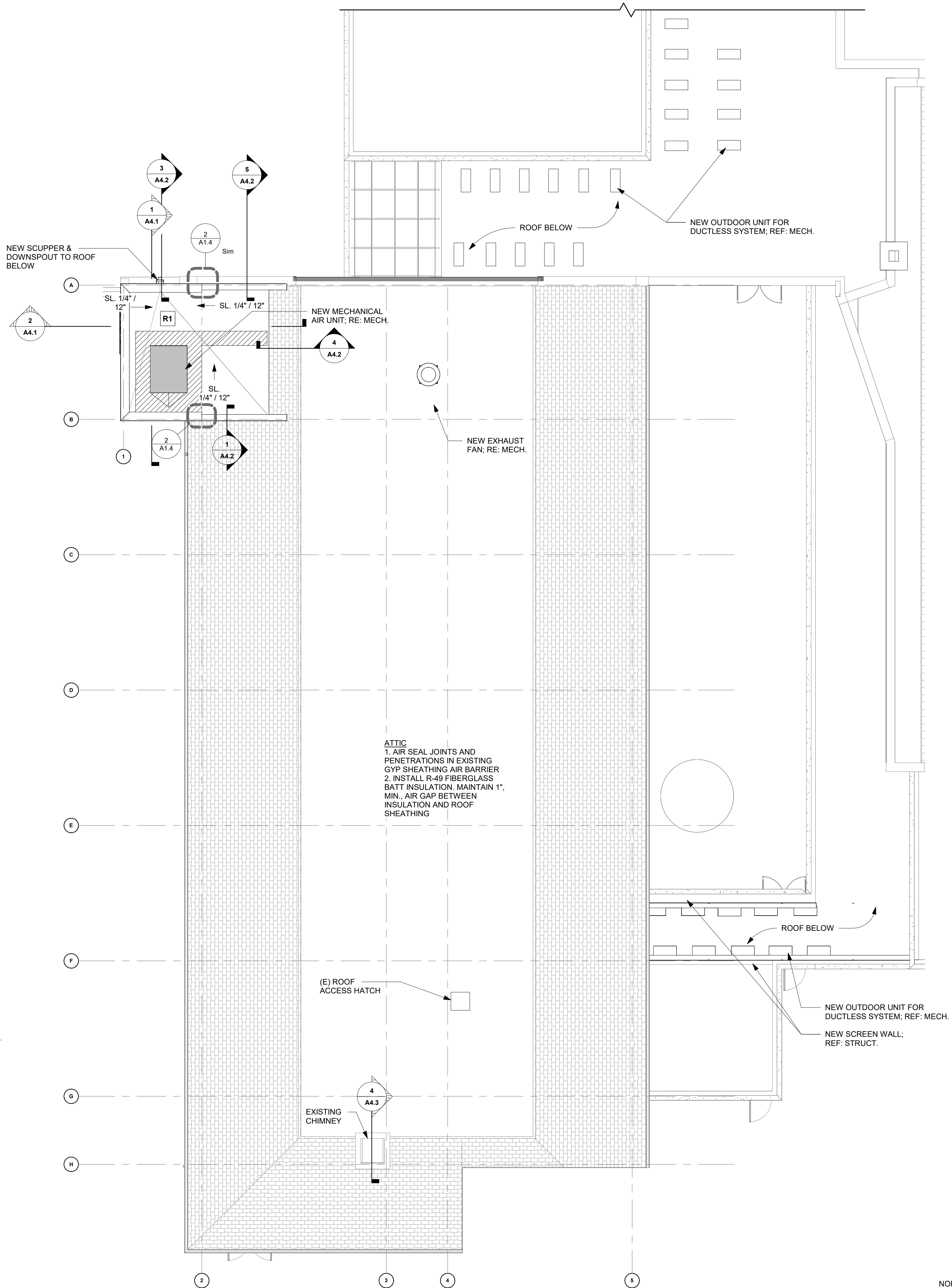
2 PLAN DETAIL AT PARAPET STEP

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



1 ROOF PLAN

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



ROOF PLAN GENERAL NOTES

1. REFER TO SHEET G0.3 FOR SYSTEM NOTES REGARDING MINIMUM ROOF ASSEMBLY R-VALUES
2. PROVIDE POSITIVE DRAINAGE TO ALL ROOF DRAINS. A 2" MINIMUM DIMENSION (OR A 2" COLLAR IN THE OVERFLOW DRAIN) SHALL BE MAINTAINED FROM THE TOP OF ROOF DRAINS TO THE BOTTOM OF OVERFLOW DRAINS OR THRU WALL SCUPPERS WHERE APPLICABLE.
3. THE INDICATED SLOPES OF ALL ROOF ELEMENTS SHALL BE MINIMUMS AND SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE, BASED ON THE FOLLOWING CRITERIA:
 - A. ROOF SLOPE SHALL BE 1/4" PER FOOT MIN. TYP UNO.
 - B. ALL CRICKETS SHALL SLOPE A MIN. OF 1/2" PER 1'-0" UNO.
 - C. ALL VALLEYS SHALL SLOPE A MIN. OF 1/4" PER 1'-0" UNO.
4. IT IS THE RESPONSIBILITY OF THE ROOFING CONTRACTOR TO ENSURE THAT ALL CONDITIONS SATISFY POSITIVE SLOPE CRITERIA.
5. WHERE CONDITIONS OCCUR THAT ARE NOT DETAILED BY CONTRACT DOCUMENTS, IT IS THE RESPONSIBILITY OF THE ROOFING CONTRACTOR TO PROVIDE MATERIALS, FINISHES, FLASHINGS AND CONSTRUCTION PRACTICES IN ACCORDANCE W/ RECOMMENDED MANUFACTURER INSTALLATION DETAILS FOR THE APPLICABLE ROOF SYSTEM TO ENSURE A WATER-TIGHT SYSTEM.
6. REFER TO EXTERIOR ELEVATIONS AND FLOOR PLANS FOR EXTERIOR DOWNSPOUT TYPES AND LOCATIONS. GC TO COORDINATE W/ CIVIL AND PLUMBING DWGS AS REQ'D
7. GC SHALL PROVIDE ROOF CRICKETS AS INDICATED. REFER TO MEP DWGS FOR ADDITIONAL ROOFTOP EQUIPMENT TYPES AND LOCATIONS. GC SHALL INSTALL ALL ROOFTOP EQUIPMENT ON ROOF CURBS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND CONFIRM FINAL EQUIPMENT AND VENTS MEET SHIELDING REQUIREMENTS PER AHJ
8. GC SHALL FIELD VERIFY ALL PARAPET WALLS TO ENSURE 42" MIN GUARD HEIGHT FOR FALL PROTECTION
9. PROVIDE PREFINISHED METAL "L" FLASHING AT VERTICAL ELEMENTS ABUTTING SLOPING ROOFS. VERT. & HORIZ. LEGS SHALL BE 8" MIN.
10. METAL FLASHING AT THE INTERSECTION BETWEEN A ROOF AND A VERTICAL SIDEWALL SHALL BE BY THE STEP FLASHING METHOD. FLASHING SHALL BE A MINIMUM OF 8"H. & 8"W. AT THE END OF THE VERTICAL SIDEWALL, THE STEP FLASHING SHALL BE TURNED OUT IN A MANNER THAT DIRECTS WATER AWAY FROM THE WALL AND INTO THE ROOF AND/OR GUTTER.

ROOF PLAN LEGEND

- TAPERED INSULATION CRICKETS
- ROOFTOP WALKABLE SURFACE

PROJECT NUMBER: 2022-104

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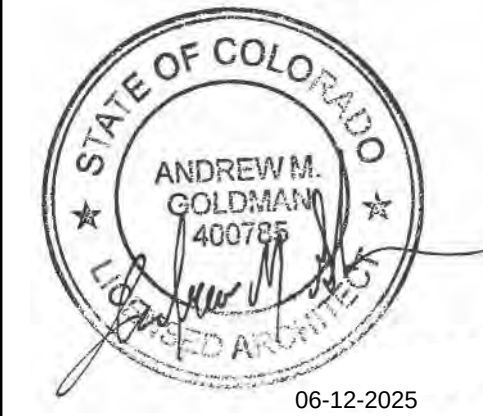
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ROOF PLAN

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FORMED METAL COPINGS-
DESIGN DATA

COPING

OPEN-FACED DOWNSPOUT & BRACKET

STYLE B

GUTTER

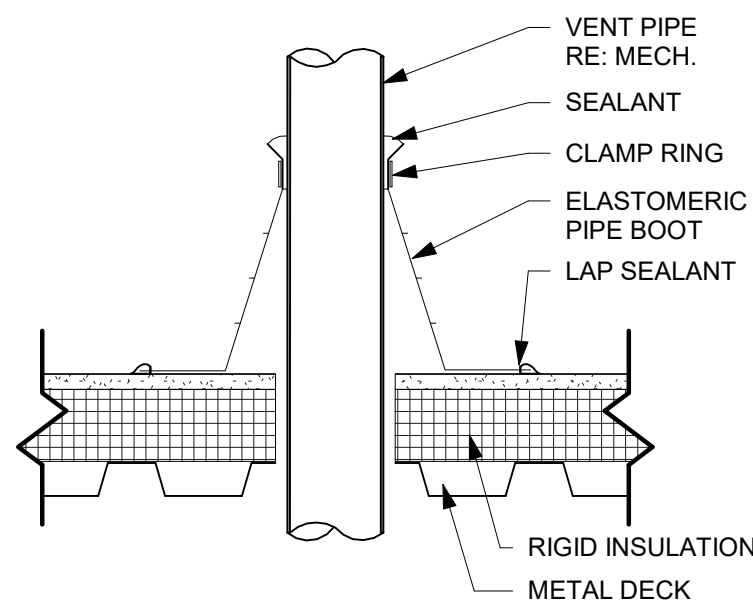
FIG 1-25C

CONDUCTOR HEAD

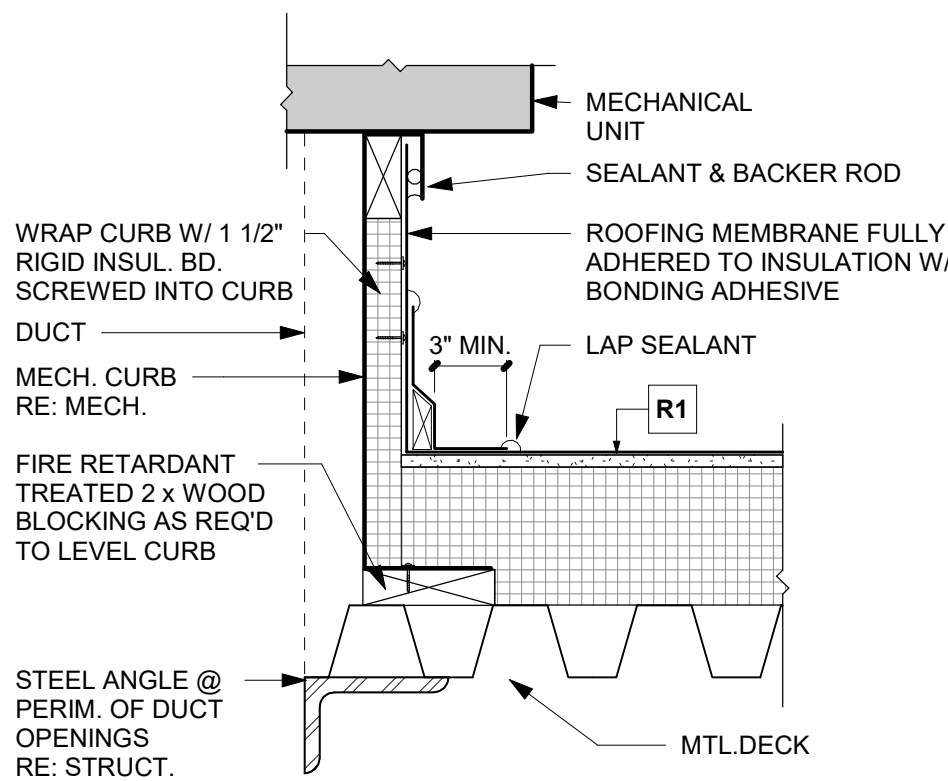
THRU-WALL SCUPPER

FIG 1-30A

THE ABOVE DETAILS ARE PROTOTYPICAL EXAMPLES TAKEN FROM THE SMACNA MANUAL AND INDICATE INDUSTRY STANDARDS FOR SHEET METAL FABRICATIONS. WALL CONSTRUCTION SHOWN VARIES FROM THE WALL CONSTRUCTION FOR THIS PROJECT.



2 PIPE PENETRATION - METAL DECK
SCALE: 1 1/2" = 1'-0"



3 MECH CURB - METAL DECK
SCALE: 1 1/2" = 1'-0"

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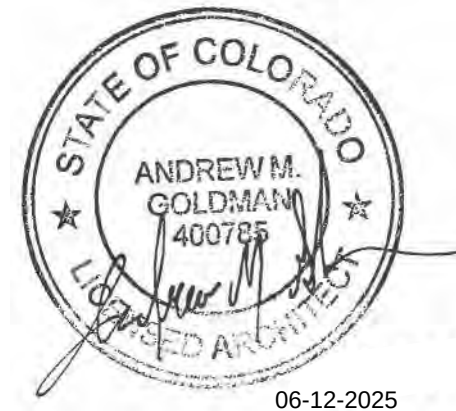
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DESCRIPTION	DATE
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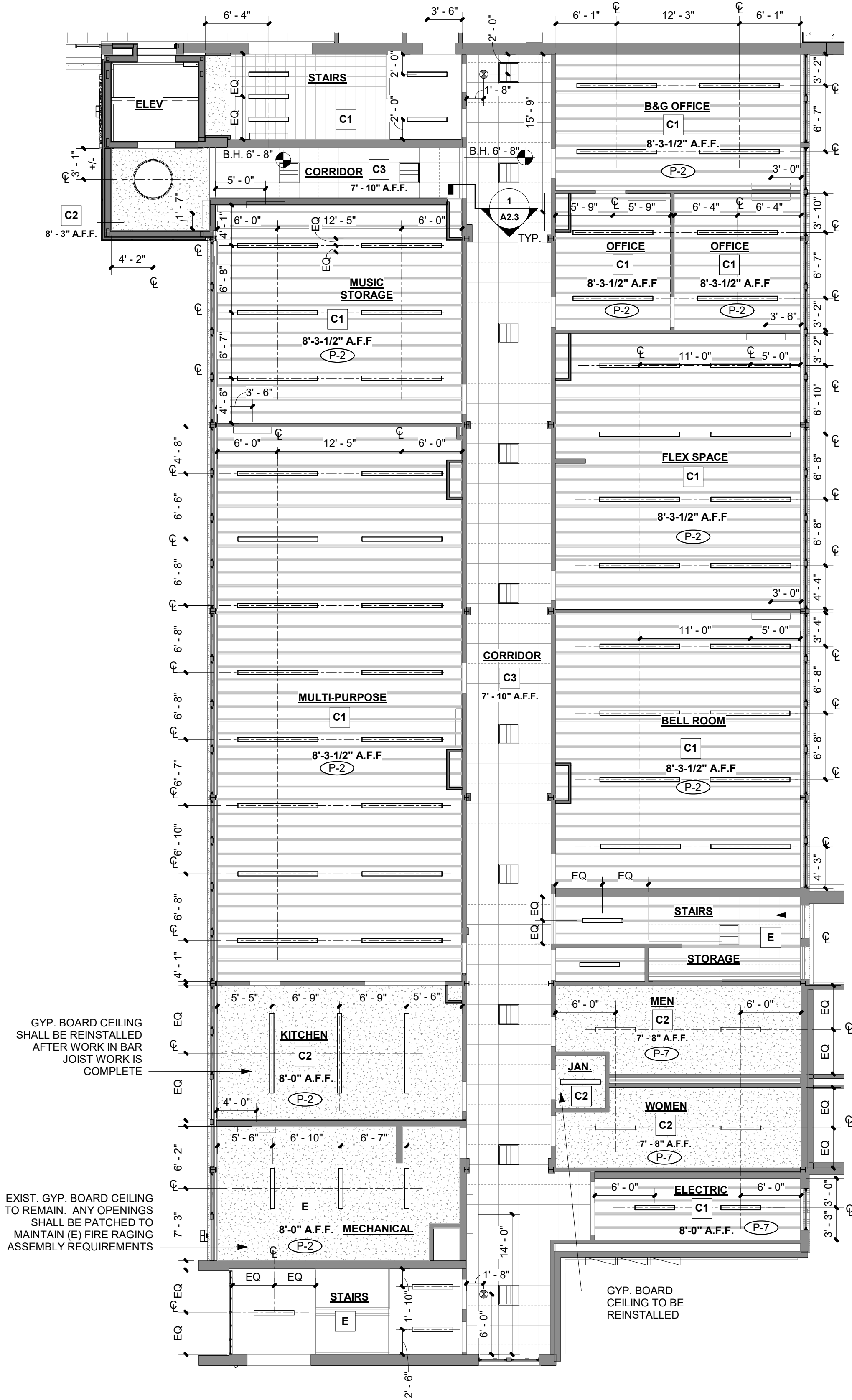
ROOF DETAILS

DRAWING NUMBER:

A1.5

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6/12/2025 4:48:59 PM



2 REFLECTED CEILING PLAN - EDUCATION WING - BASEMENT
SCALE: 1/8" = 1'-0"

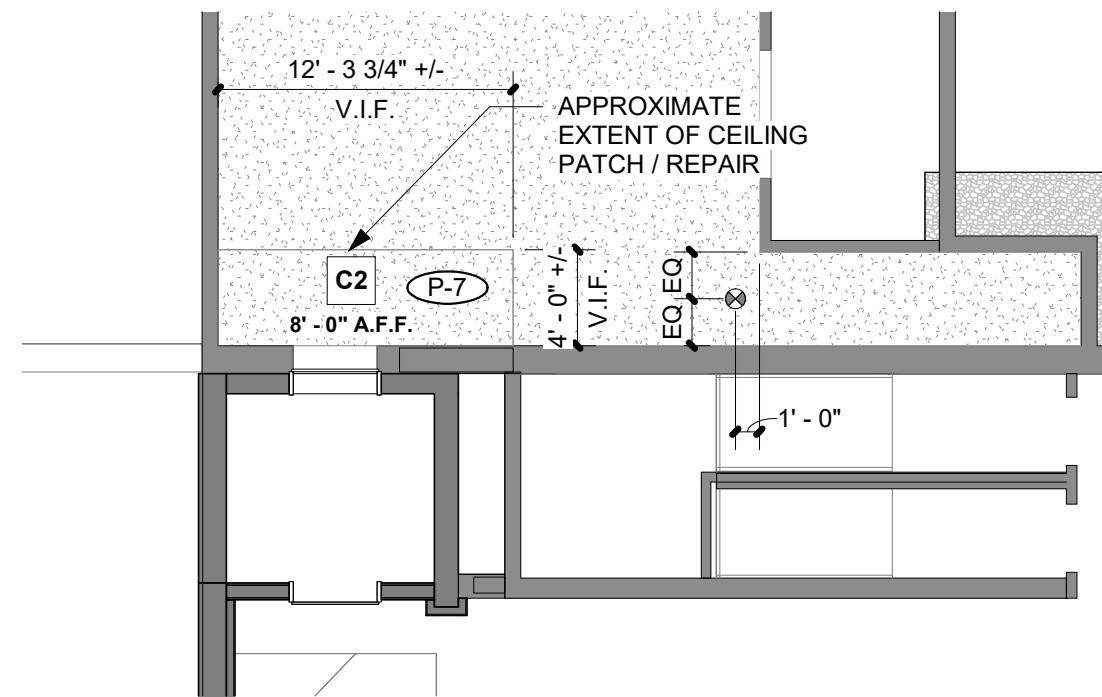


EXISTING GYP. BOARD CEILING IN STORAGE ROOM UNDER STAIRWELL WILL REMAIN AND ANY NEW OPENINGS WILL BE PATCHED TO MAINTAIN EXISTING FIRE RATING ASSEMBLY REQUIREMENTS

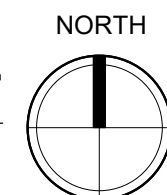
GYP. BOARD CEILING TO BE REINSTALLED

GYP. BOARD CEILING SHALL BE REINSTALLED AFTER WORK IN BAR JOIST WORK IS COMPLETE

EXIST. GYP. BOARD CEILING TO REMAIN. ANY OPENINGS SHALL BE PATCHED TO MAINTAIN (E) FIRE RATING ASSEMBLY REQUIREMENTS



1 PARTIAL REFLECTED CEILING PLAN - NORTH BASEMENT
SCALE: 1/8" = 1'-0"



REFLECTED CEILING PLAN GENERAL NOTES

- GC SHALL PRIME AND PAINT ALL NEW AND EXISTING EXPOSED STEEL, U.N.O.
- INSTALL ALL LIGHTS PER LOCATION SHOWN ON ARCHITECTURAL RCP. REFER TO ELECTRICAL DWGS FOR LIGHT TYPES
- GC SHALL COORDINATE ALL SUSPENDED LIGHT FIXTURE MOUNTING HEIGHTS W/ ARCHITECT PRIOR TO INSTALLATION, U.N.O.
- CENTER ACT PANELS IN ROOM, TYP U.N.O.
- ALL BULKHEADS SHALL BE WS-6, U.N.O.
- INSTALL DIFFUSERS PER LOCATION SHOWN ON ARCHITECTURAL RCP. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER TYPES
- ALL FIRE SPRINKLER HEADS AND RECESSED CAN LIGHTS SHALL BE LOCATED AT CENTER OF CEILING TILES.
- CONTROL JOINTS IN GYP WALLS AND CEILINGS SHALL BE INSTALLED EVERY 30' MAX PER MANUFACTURER
- ALL EXPOSED NEW AND EXISTING PLUMBING, CONDUIT, SPRINKLERS, ETC SHALL BE PAINTED TO MATCH ADJACENT CEILING FINISH, TYP U.N.O.
- ALL EXPOSED SUPPORTING WIRES, CONDUIT AND SERVICE LINES SHALL BE MOUNTED IN A CLEAN AND ORGANIZED ARRANGEMENT WITH THEIR ROUTING PARALLEL OR PERPENDICULAR TO ADJACENT ROOF FRAMING, TYP
- REFER TO GENERAL FINISH NOTES (A8.0) FOR ADDITIONAL FINISH INFORMATION
- REFER TO INTERIOR FINISH NOTES (A8.0) FOR FINISH ON DUCTWORK AND GRILLES.
- SEE SHEET A8.0 FOR PAINT FINISH INFORMATION
- LINEAR PENDANTS LOCATED IN ROOMS WITH OPEN TO STRUCTURE CEILING, SHALL BE PLACED BETWEEN JOISTS EQUALLY, AND THE BOTTOM OF FIXTURE SHALL BE ALIGNED WITH THE BOTTOM OF JOISTS, TYPICAL.
- BAR JOIST LOCATIONS ARE APPROXIMATE. V.I.F.
- SPRINKLERS ARE ASSUMED TO BE ABOVE BOTTOM CHORD OF BAR JOISTS.

REFLECTED CEILING PLAN TYPE LEGEND

- BH GYP. BOARD BULKHEAD
- MINI-SPLIT AIR SYSTEM PER MECHANICAL DRAWINGS
- RECESSED LIGHT FIXTURE PER ELECTRICAL DRAWINGS
- PENDANT LIGHT FIXTURE PER ELECTRICAL DRAWING
- SURFACE MOUNTED LIGHT FIXTURE PER ELECTRIC DRAWING
- WALL SCONCE PER ELECTRIC DRAWING
- PT-X PAINT COLOR

CEILING TYPE LEGEND

- E EXISTING CEILING**
 - PAINT, PATCH, AND REPAIR AS NEEDED
- C1 EXPOSED STRUCTURE**
 - EXPOSED ROOF DECK & STRUCTURE
 - PAINTED WITH DRYFALL PAINT. SEE A8.0 FOR PAINT COLOR
- C2 GYPSUM BOARD**
 - 5/8" GYPSUM BOARD (PAINTED)
 - METAL FRAMING OR SUSPENSION SYSTEM (CONTRACTOR'S OPTION)
- C3 ACT**
 - ARMSTRONG SECOND LOOK, OR SIMILAR
 - 24" X 48" ACOUSTIC CEILING TILE IN
 - 9/16" PREFINISHED METAL SUSPENSION SYSTEM, (WHITE)

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524



419 CANYON AVE STE 200, FORT COLLINS, CO 80521
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

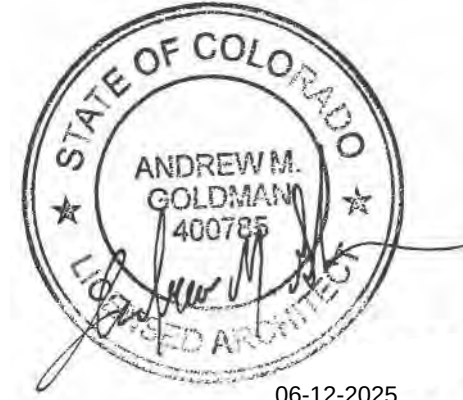
ELECTRICAL ENGINEER:
APS, INC.

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SHEET ISSUANCES

DESCRIPTION	DATE
DESIGN DEVELOPMENT	04-01-2025
CD CHECK SET	06-04-2025
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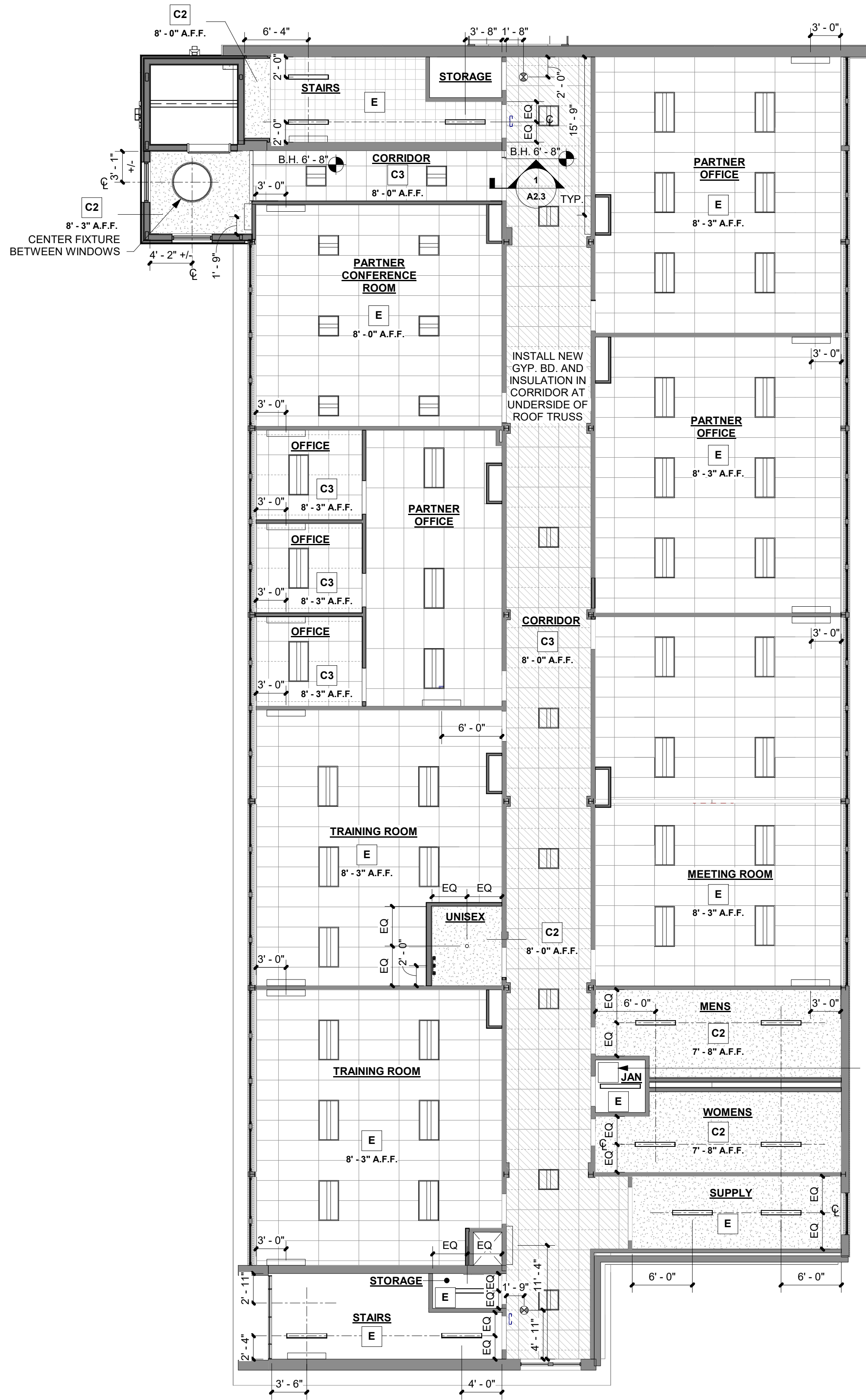
REFLECTED CEILING PLANS - NORTH BASEMENT AND BASEMENT

DRAWING NUMBER:

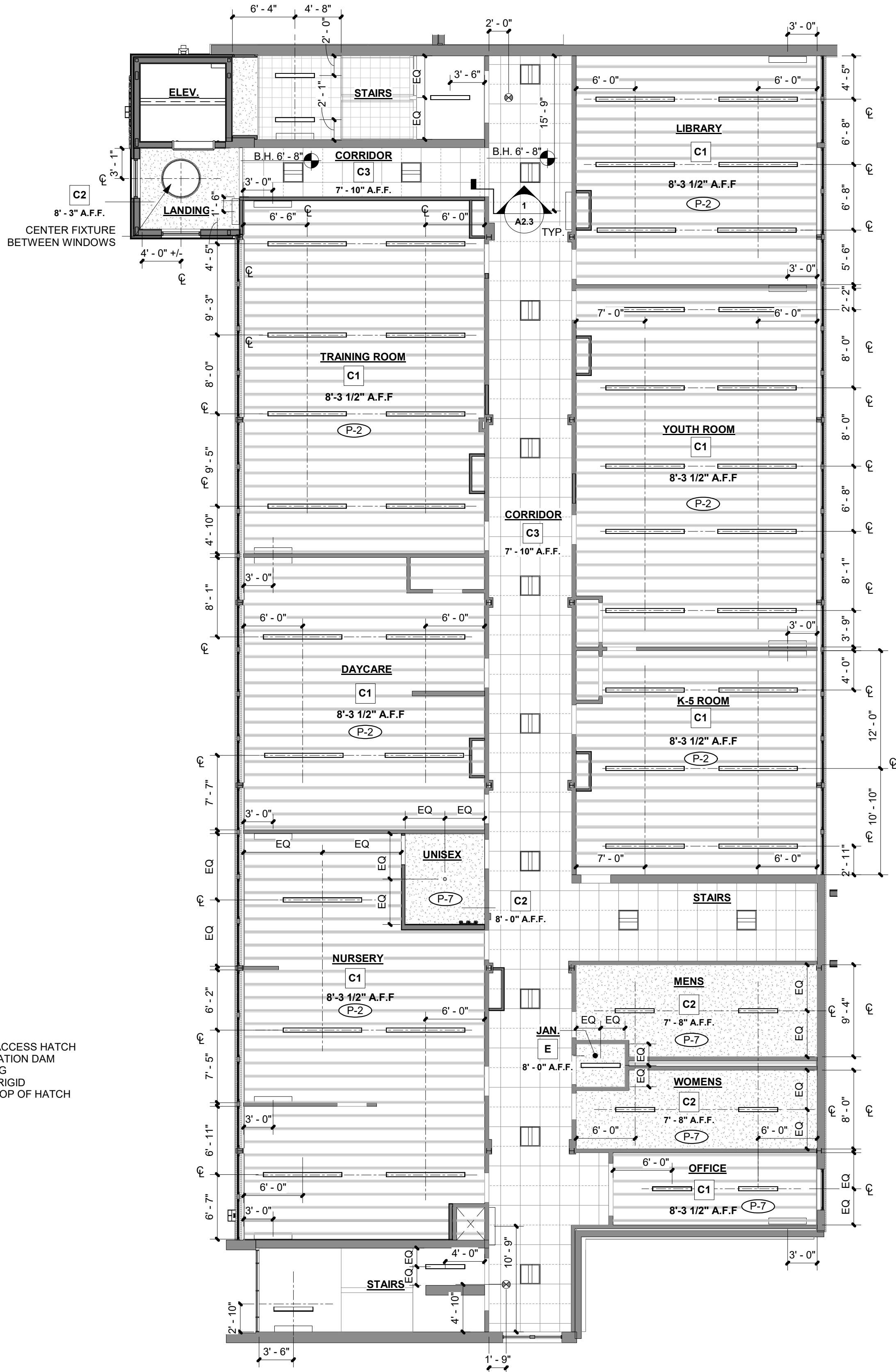
A2.1

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2 REFLECTED CEILING PLAN - EDUCATION WING - SECOND FLOOR
SCALE: 1/8" = 1'-0"



1 REFLECTED CEILING PLAN - EDUCATION WING - FIRST FLOOR
SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

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- SEE SHEET A8.0 FOR PAINT FINISH INFORMATION
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- MINI-SPLIT AIR SYSTEM PER MECHANICAL DRAWINGS
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- PENDANT LIGHT FIXTURE PER ELECTRICAL DRAWING
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- PT-X PAINT COLOR

CEILING TYPE LEGEND

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 - EXPOSED ROOF DECK & STRUCTURE
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- C2 GYPSUM BOARD**
 - 5/8" GYPSUM BOARD (PAINTED)
 - METAL FRAMING OR SUSPENSION SYSTEM (CONTRACTOR'S OPTION)
- C3 ACT**
 - ARMSTRONG SECOND LOOK, OR SIMILAR
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 - 9/16" PREFINISHED METAL SUSPENSION SYSTEM, (WHITE)

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VFLA
ARCHITECTURE + INTERIORS

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970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

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WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

ELECTRICAL ENGINEER:
APS, INC.

ISSUED FOR PERMIT

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06-12-2025

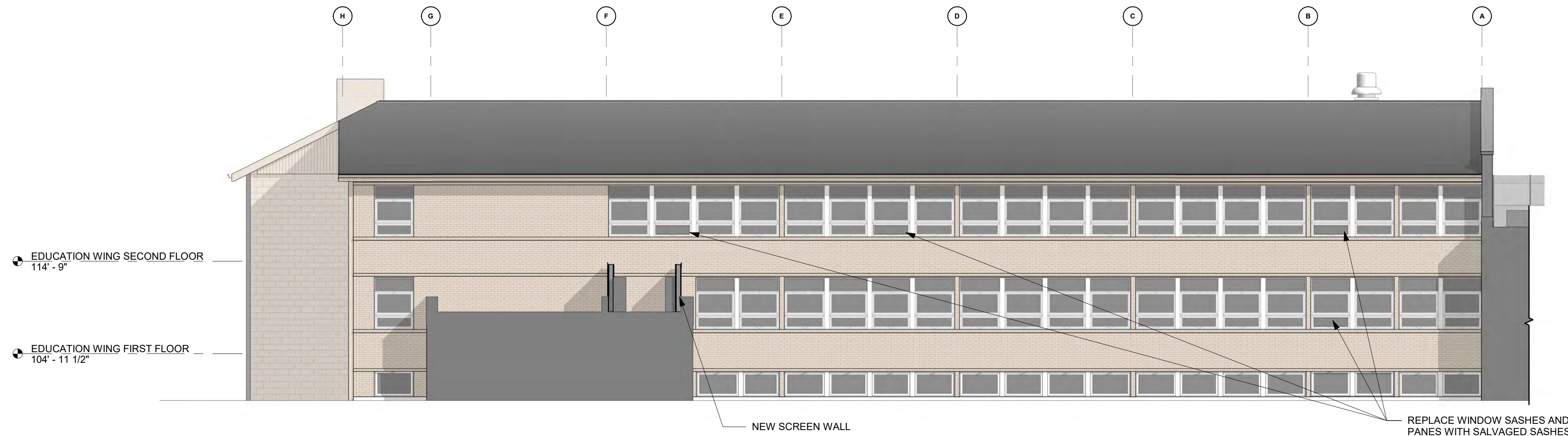
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REFLECTED CEILING PLANS - FIRST AND SECOND FLOORS

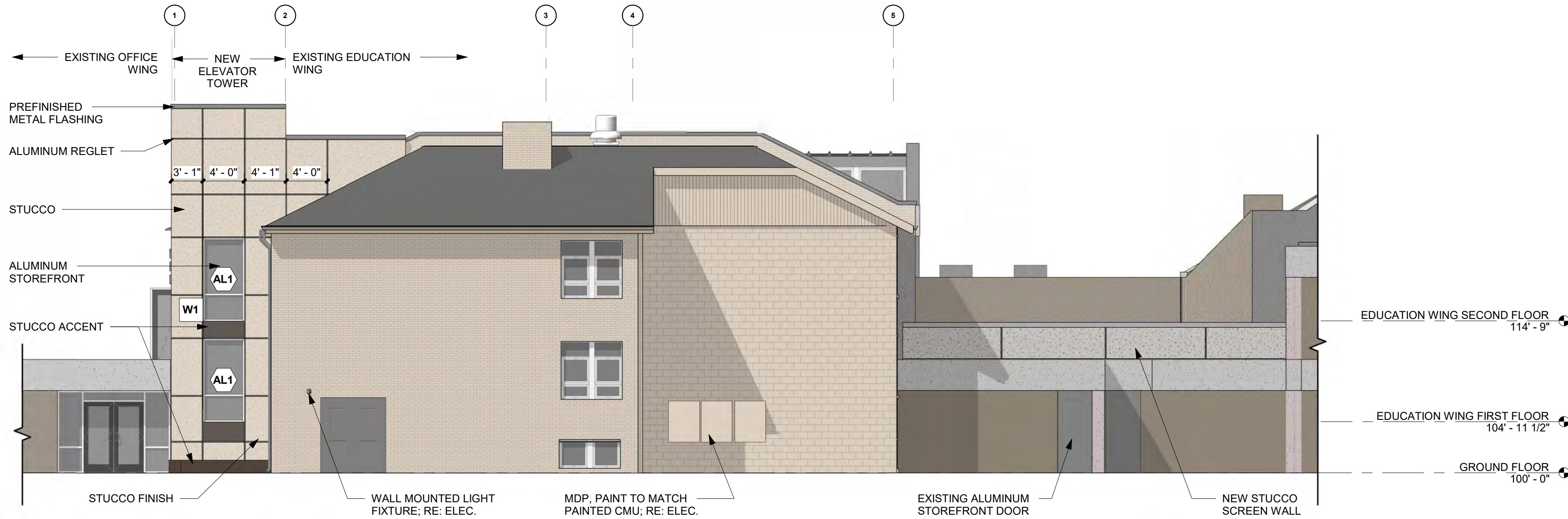
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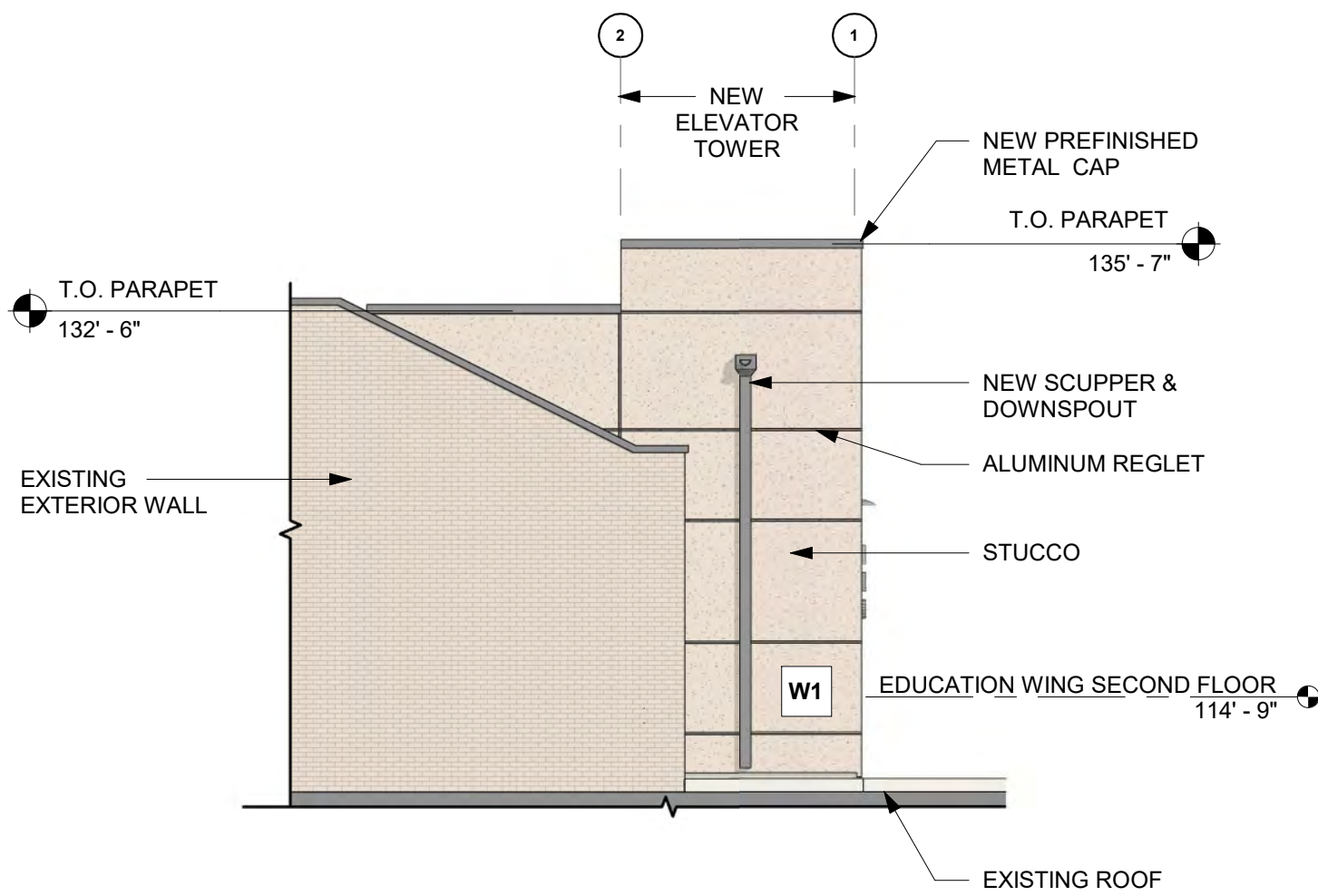


4 EAST ELEVATION
SCALE: 1/8" = 1'-0"

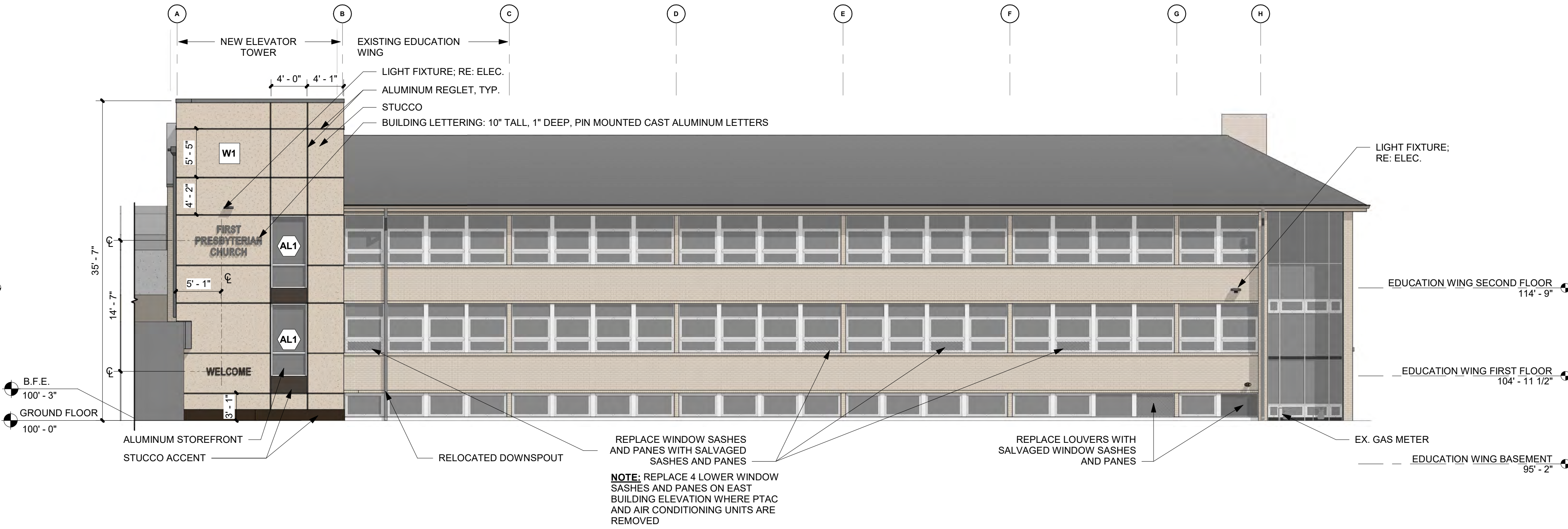
EXTERIOR ELEVATION GENERAL NOTES	
1. REFER TO SYSTEM NOTES FOR DETAILS	
2. REFER TO A7.2 FOR STOREFRONT FRAME SCHEDULES.	
3. ALL EXTERIOR WALL MOUNTED LIGHTS SHALL BE FULL CUT-OFF, TYP	
EXTERIOR FINISH SCHEDULE	
MEMBRANE ROOFING	WHITE
STUCCO	BEIGE (SPECIFIC COLOR TBD)
STUCCO ACCENT	BRONZE (SPECIFIC COLOR TBD)
STUCCO SCREEN WALL	COLOR MATCH TO ADJACENT CONCRETE; LIGHT GRAY
ALUMINUM STOREFRONT	CLEAR ANODIZED
METAL FLASHING, CAPS GUTTERS, DOWNSPOUTS	PREFINISHED METAL (SPECIFIC COLOR TBD)



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



2 PARTIAL NORTH ELEVATION
SCALE: 1/8" = 1'-0"



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

PROJECT NUMBER: 2022-104

FIRST
PRESBYTERIAN
CHURCH -
EDUCATION WING
RENOVATION

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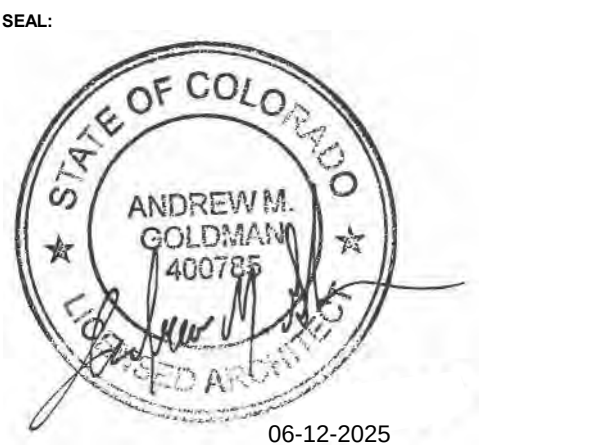
LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
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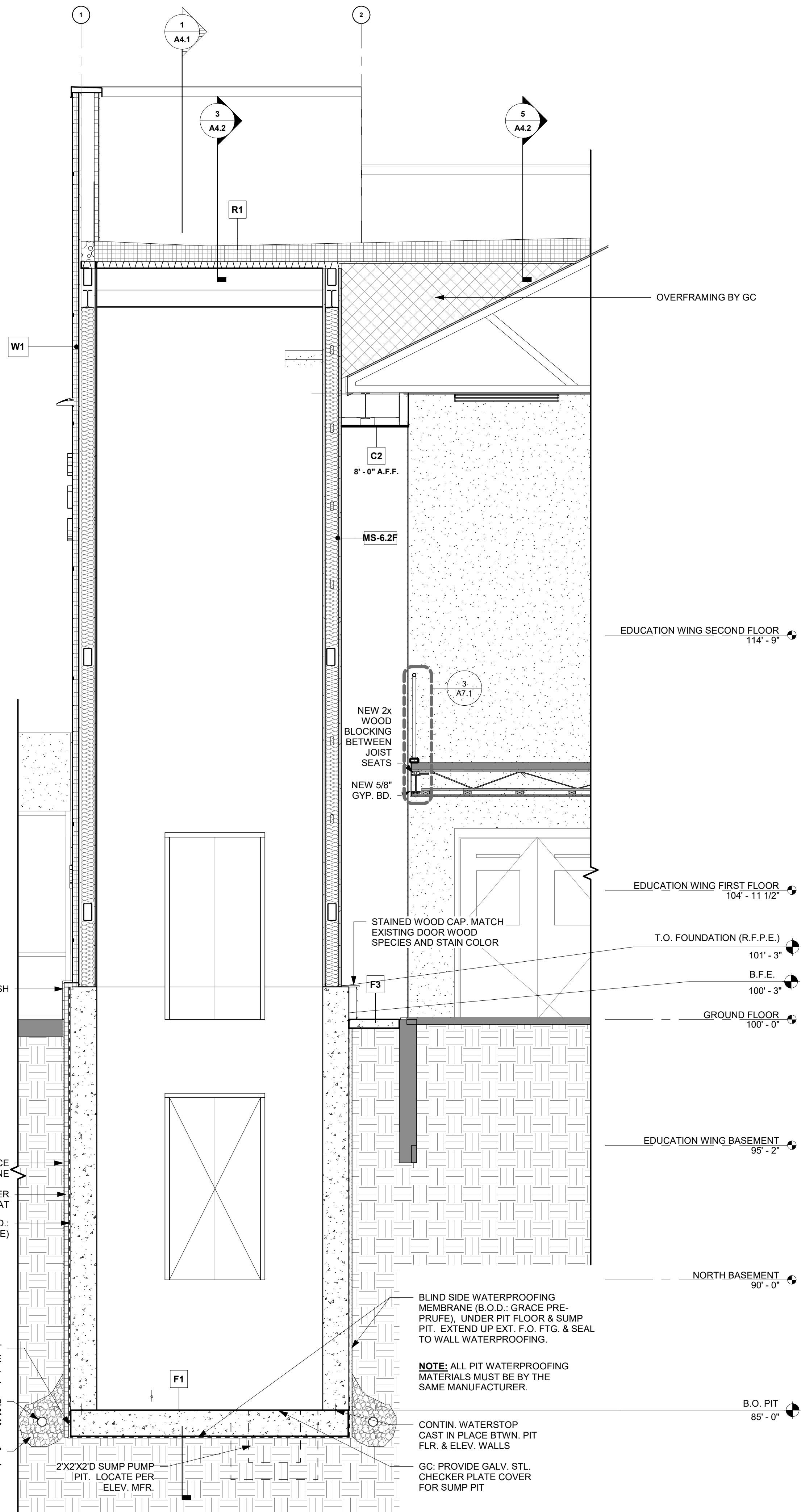


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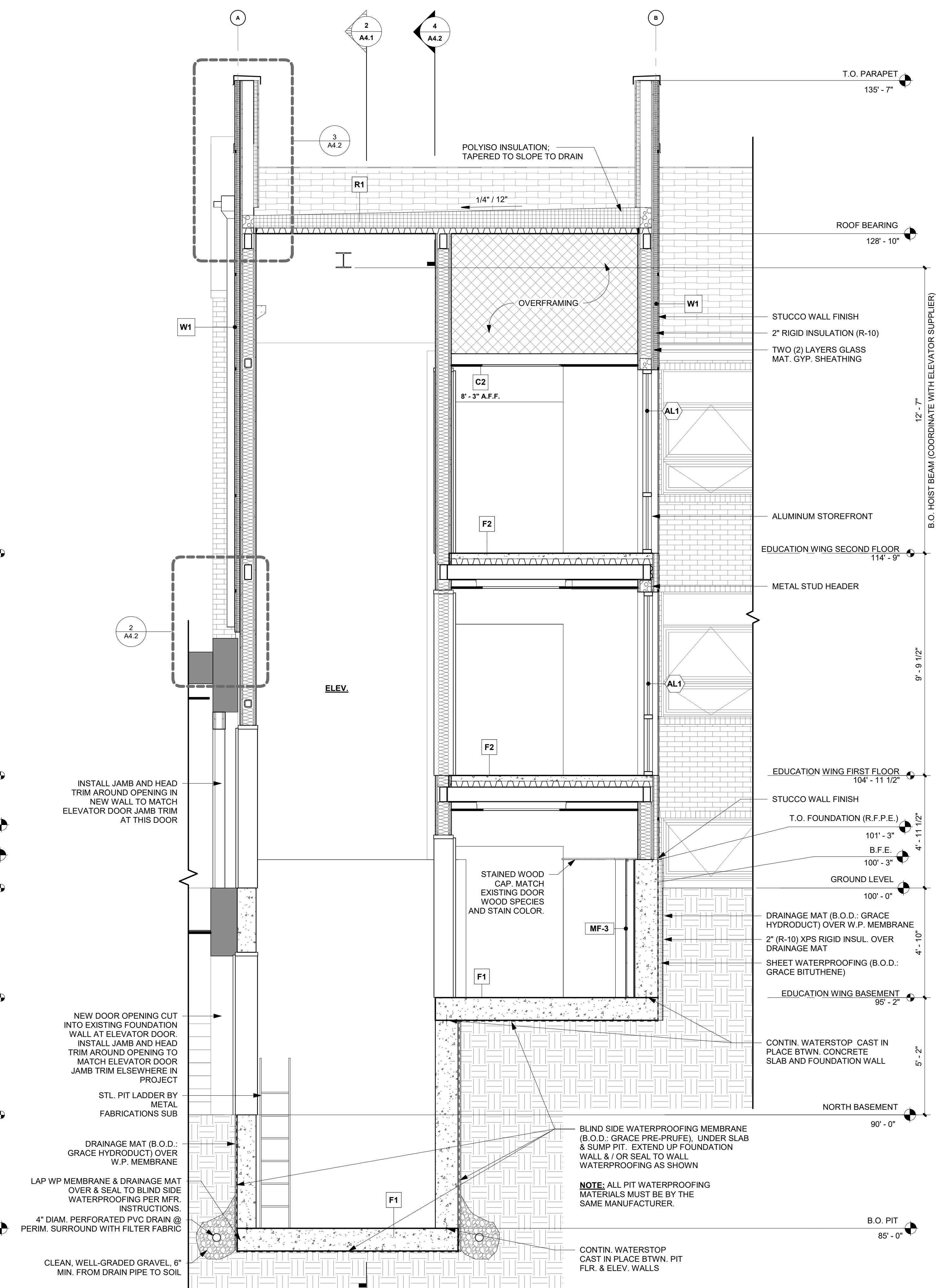
EXTERIOR
ELEVATIONS & 3D
VIEWS

DRAWING NUMBER:
A3.1

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2 SECTION AT ELEVATOR 2
SCALE: 3/8" = 1'-0"



1 SECTION AT ELEVATOR 1
SCALE: 3/8" = 1'-0"

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FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

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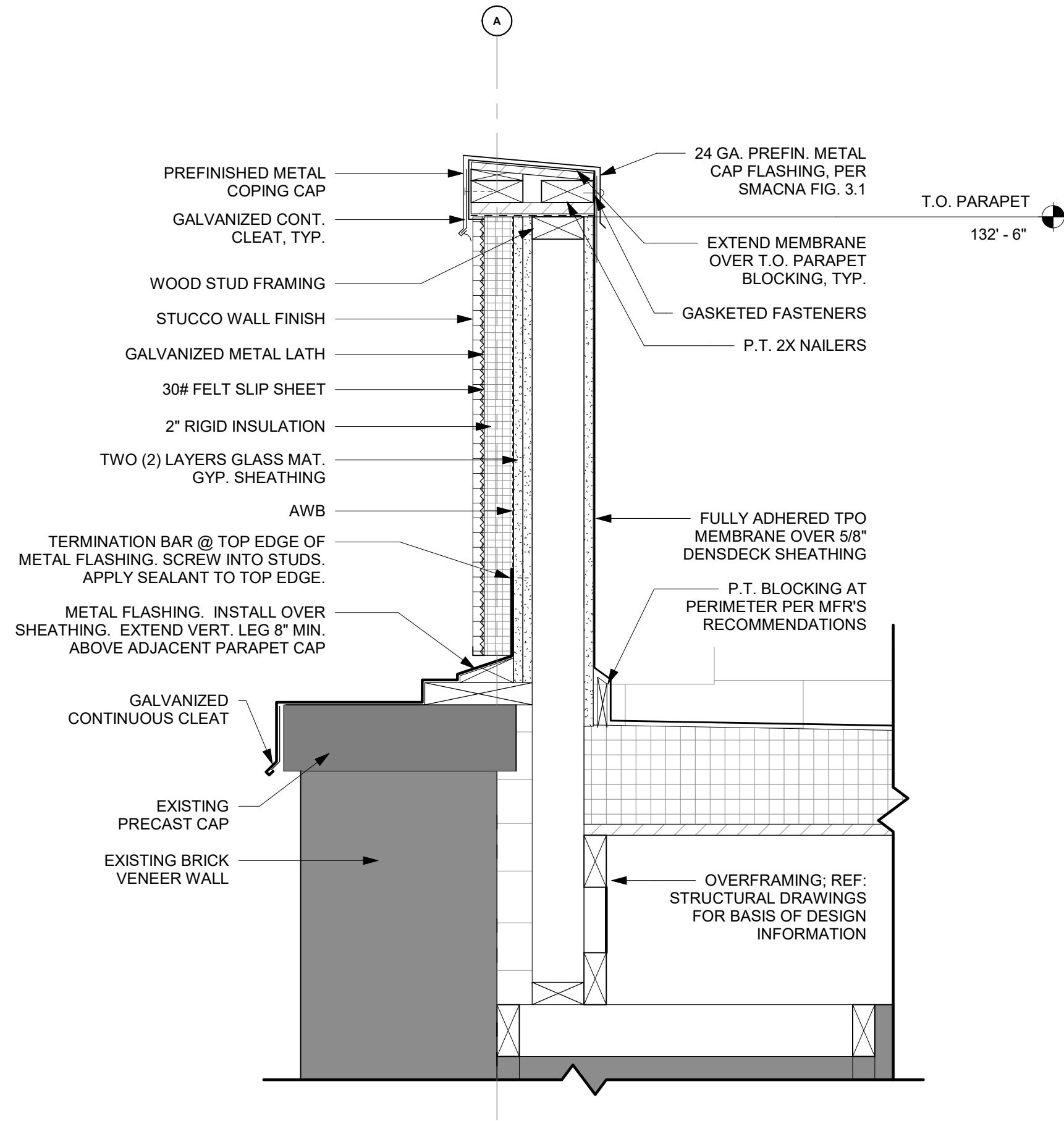
ELEVATOR SECTION

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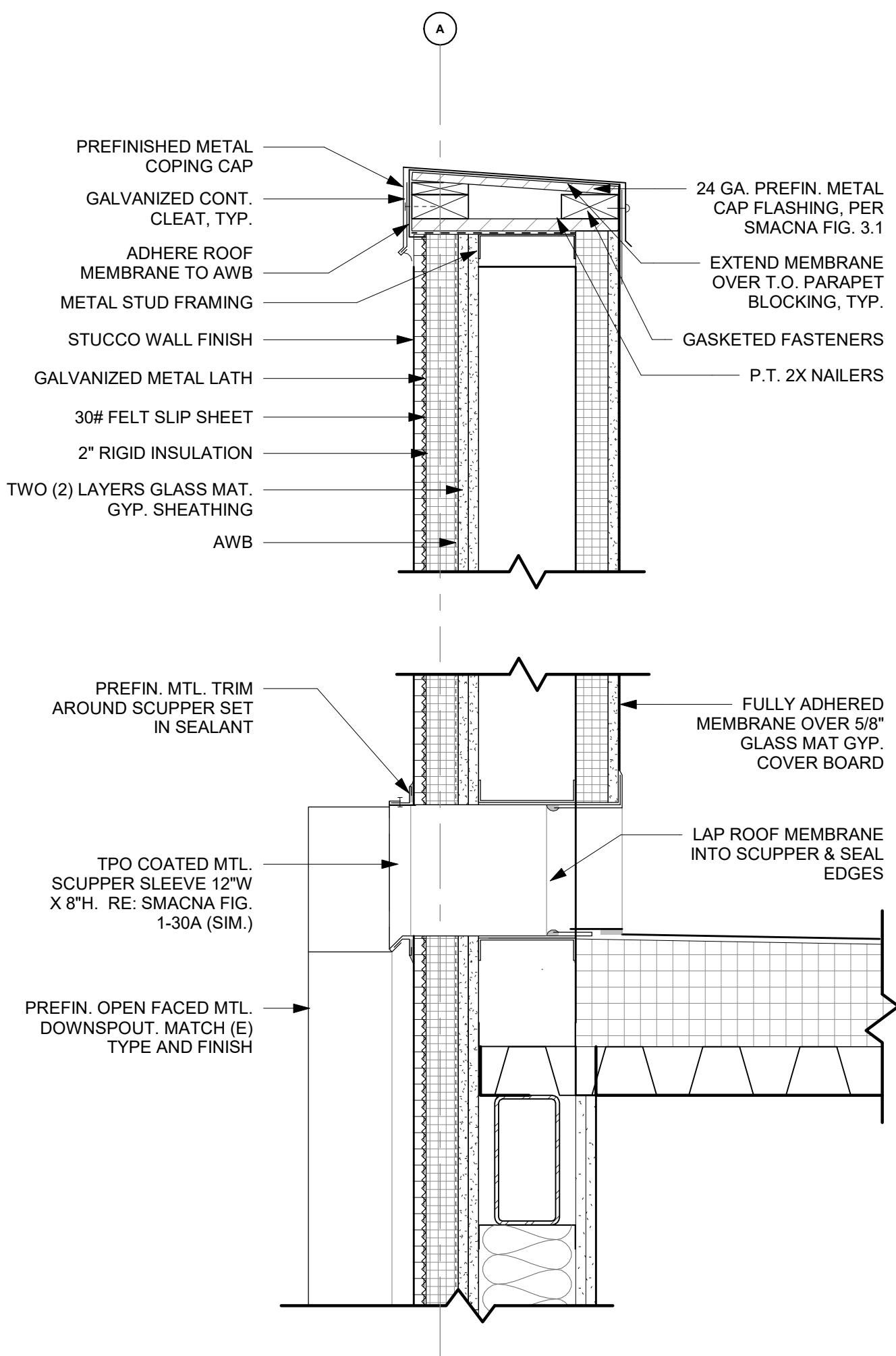
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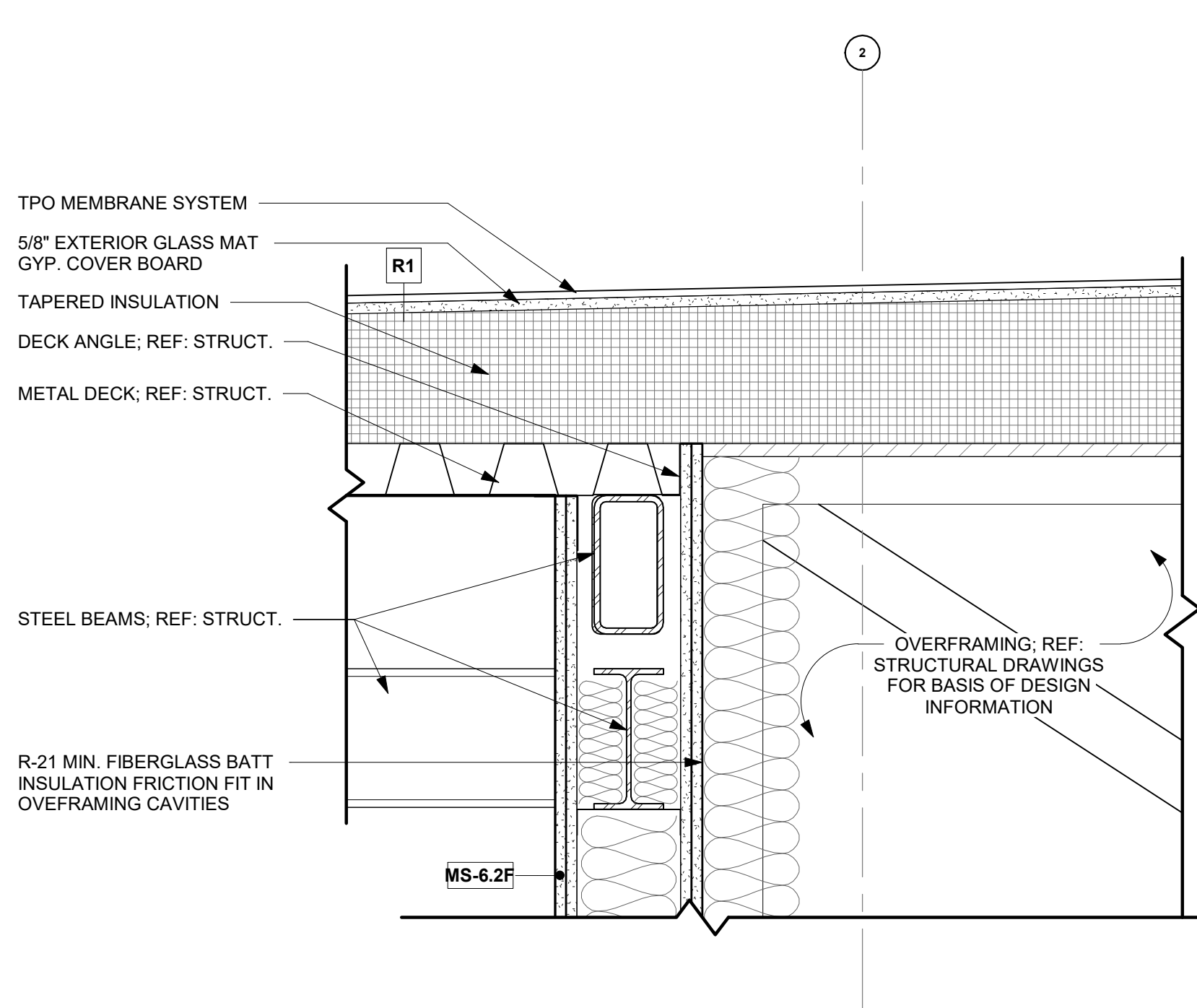
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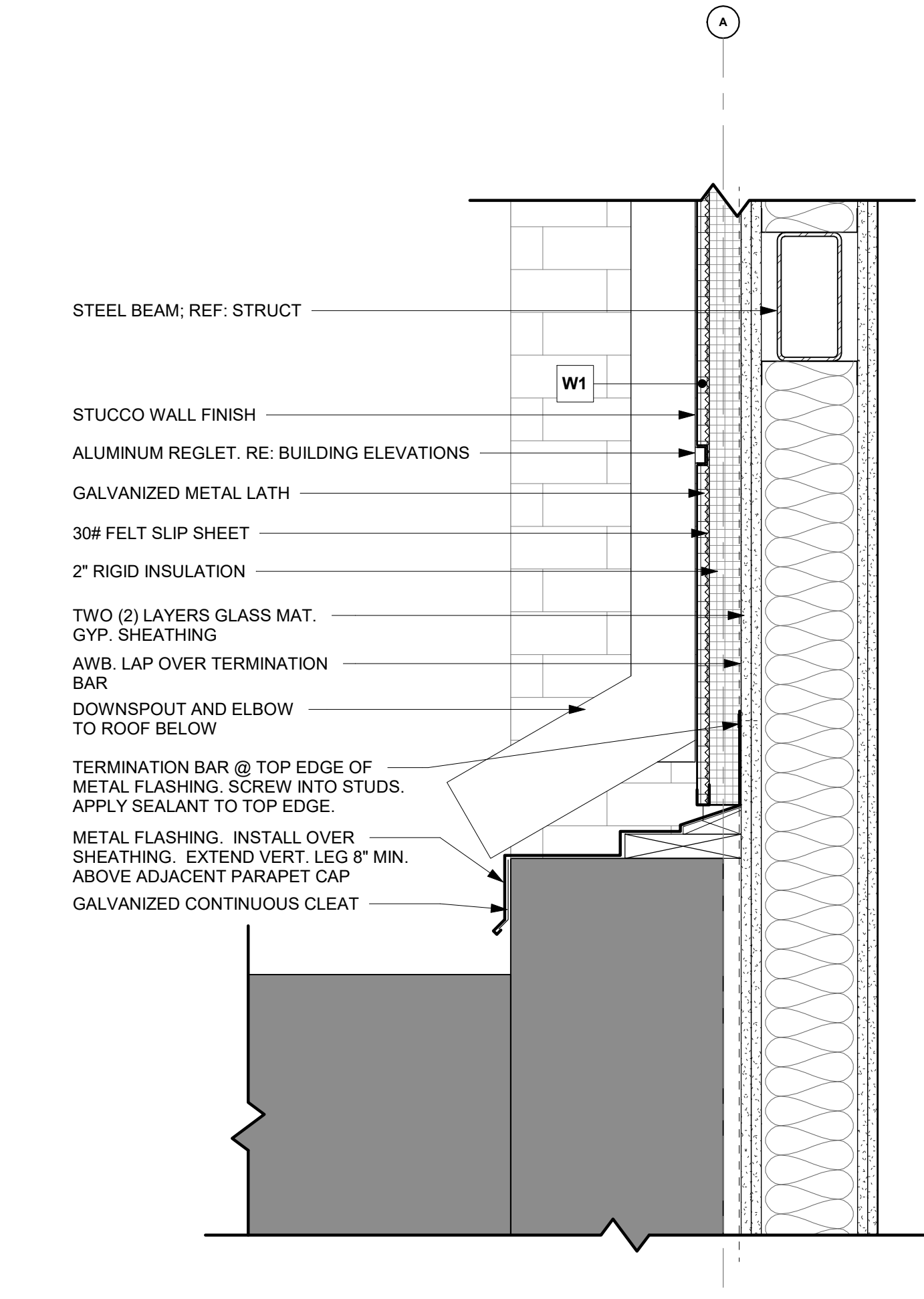
5 PARAPET DETAIL 3
SCALE: 1 1/2" = 1'-0"



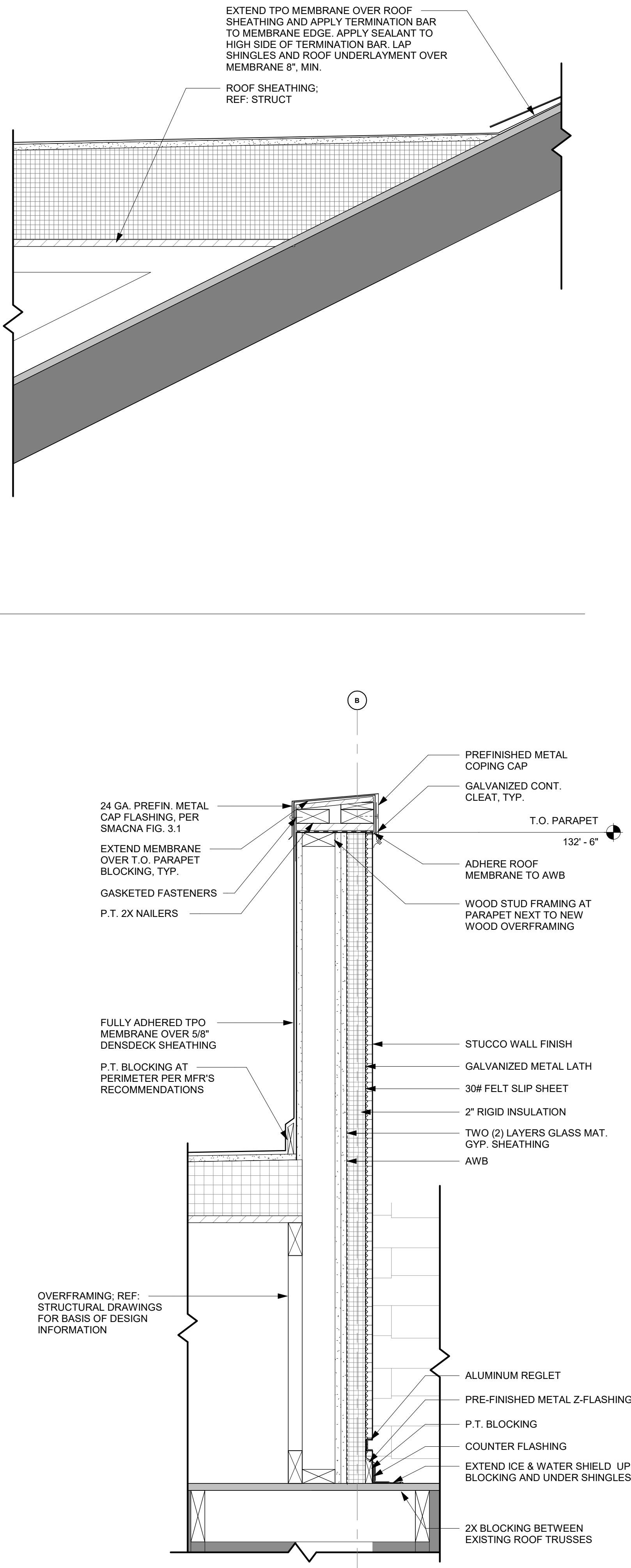
3 PARAPET DETAIL 2
SCALE: 1 1/2" = 1'-0"



4 SECTION DETAIL 1
SCALE: 1 1/2" = 1'-0"



2 EXISTING PARAPET TO WALL DETAIL
SCALE: 1 1/2" = 1'-0"



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

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FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

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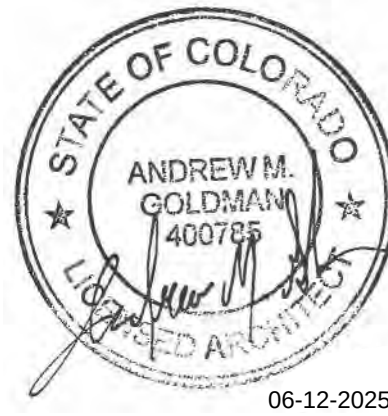
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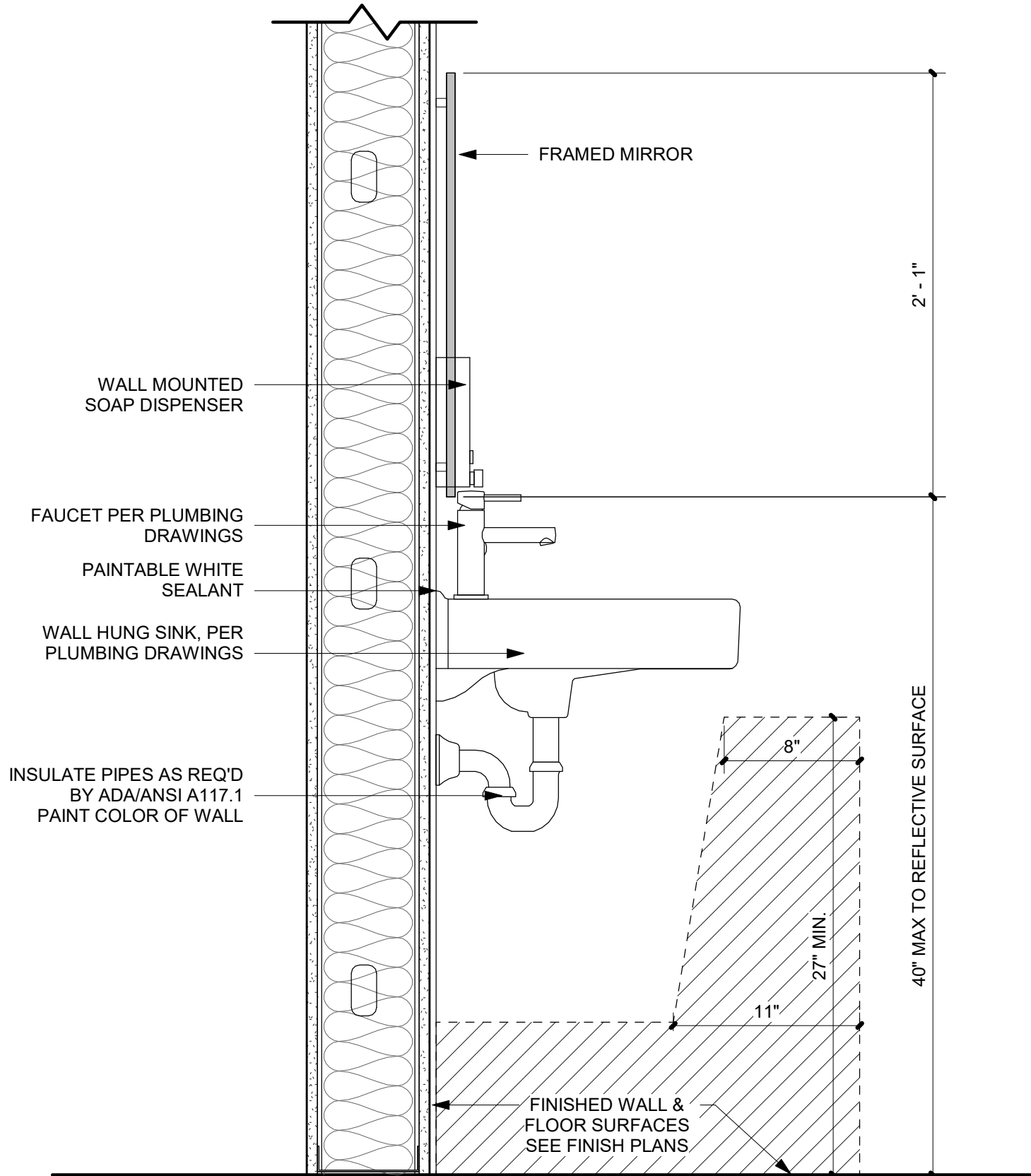


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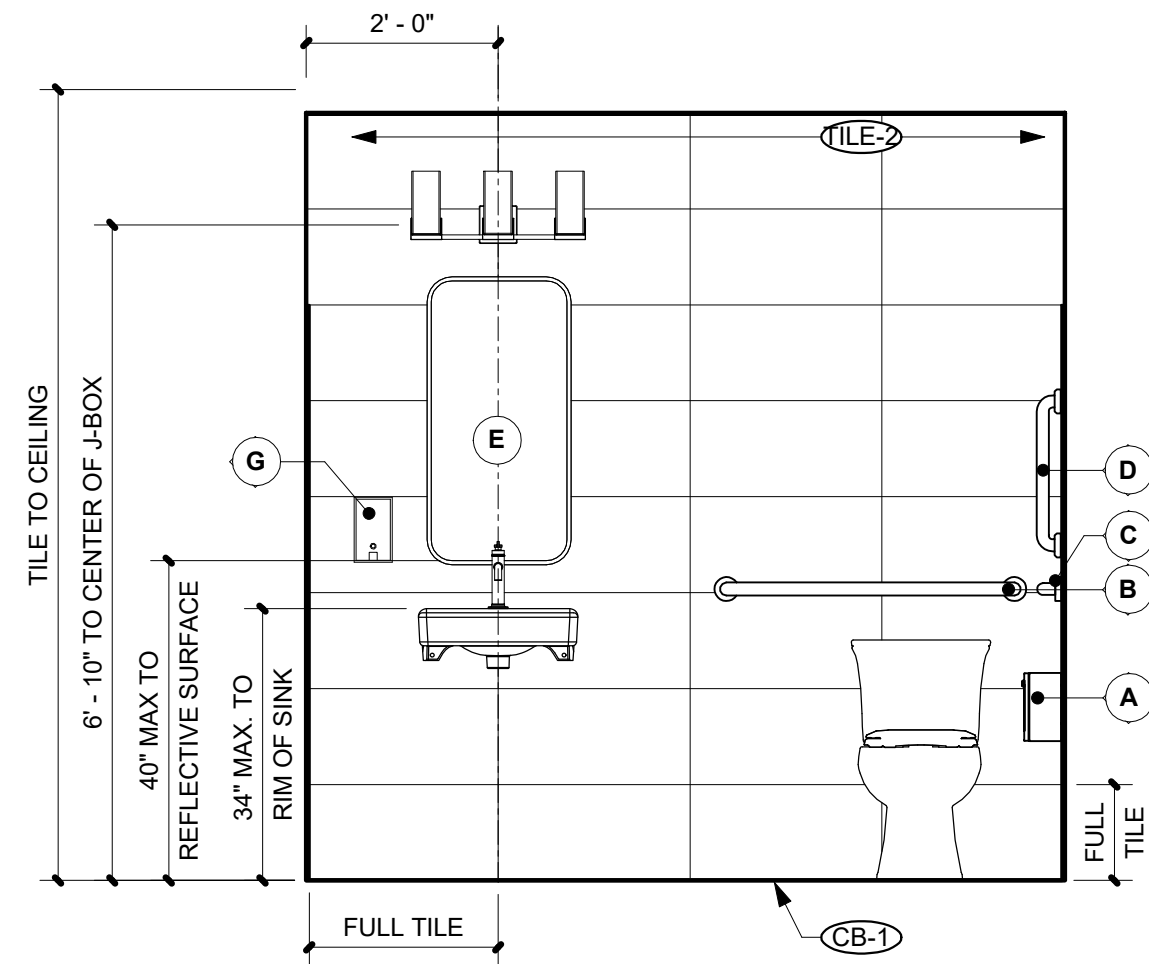
EXTERIOR DETAILS

DRAWING NUMBER:

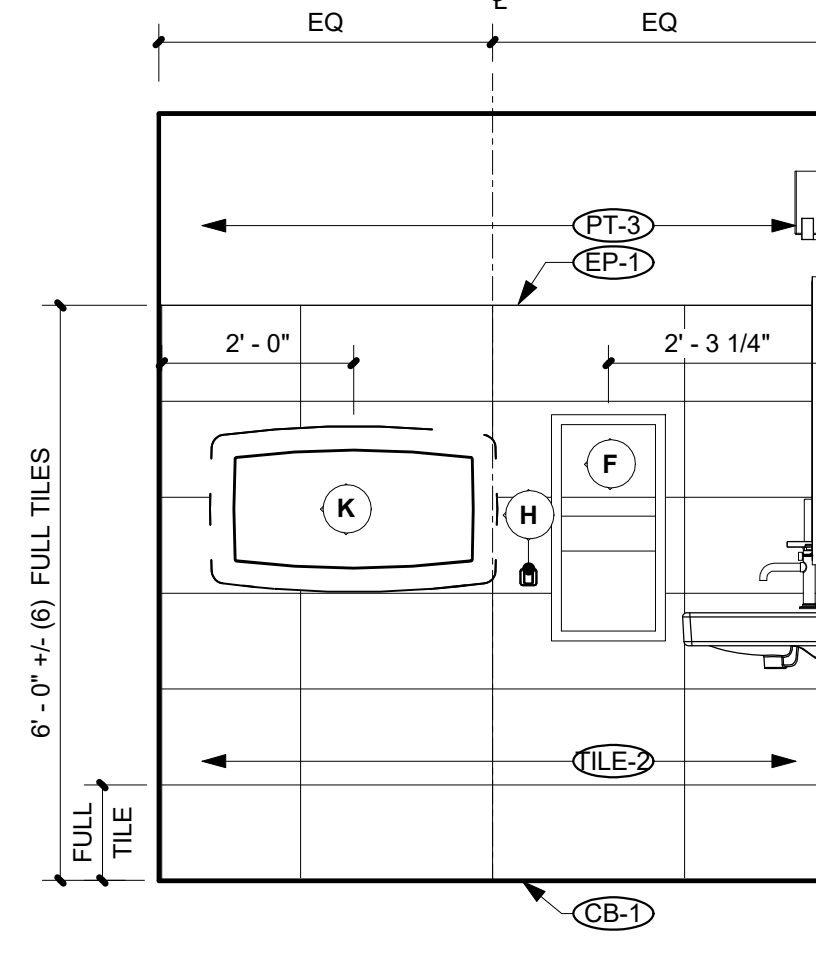
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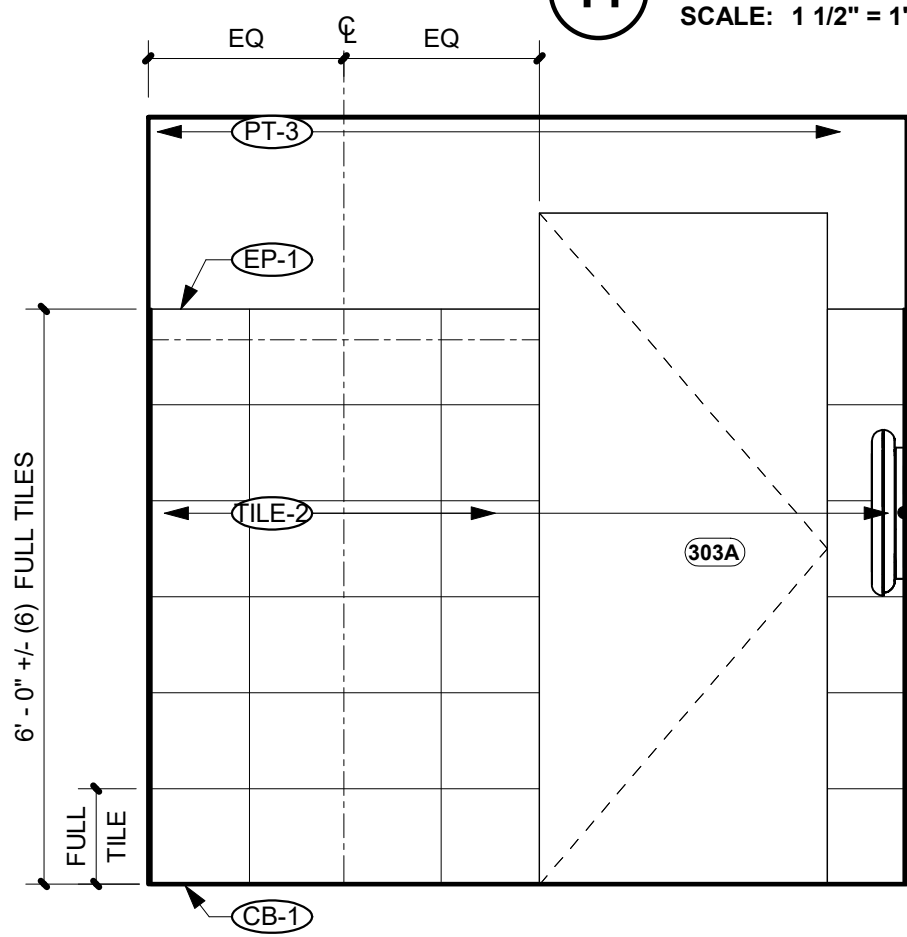
11 TYPICAL LAVATORY COUNTER SECTION
SCALE: 1 1/2" = 1'-0"



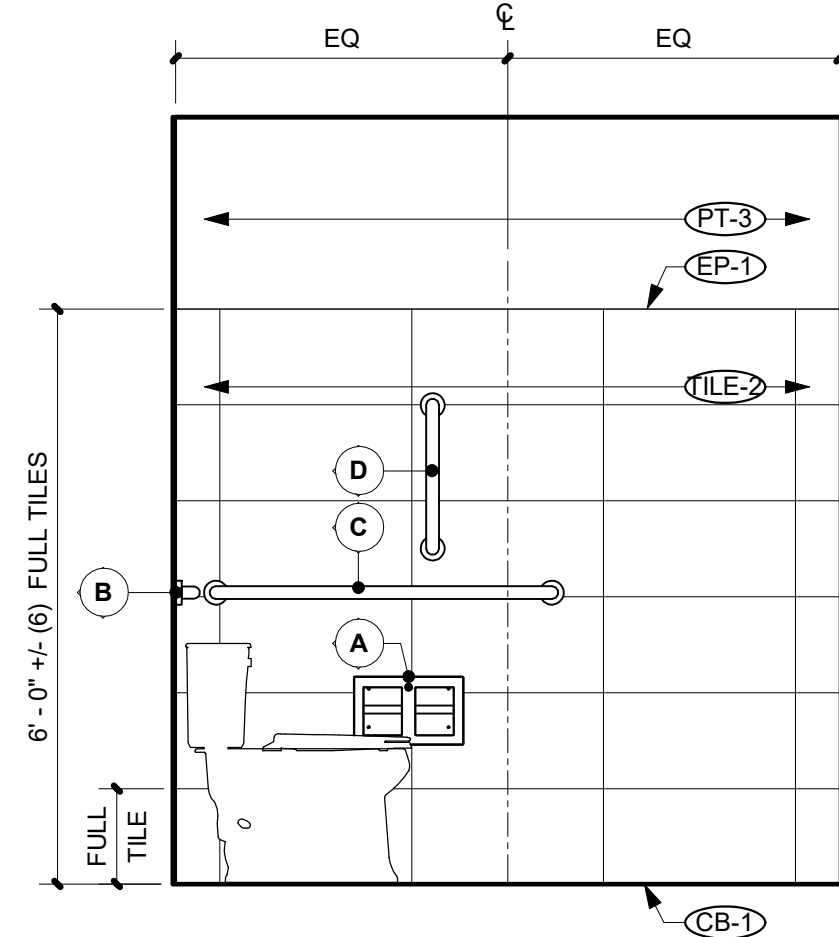
10 RESTROOM WEST - SECOND FLOOR
SCALE: 1/2" = 1'-0"



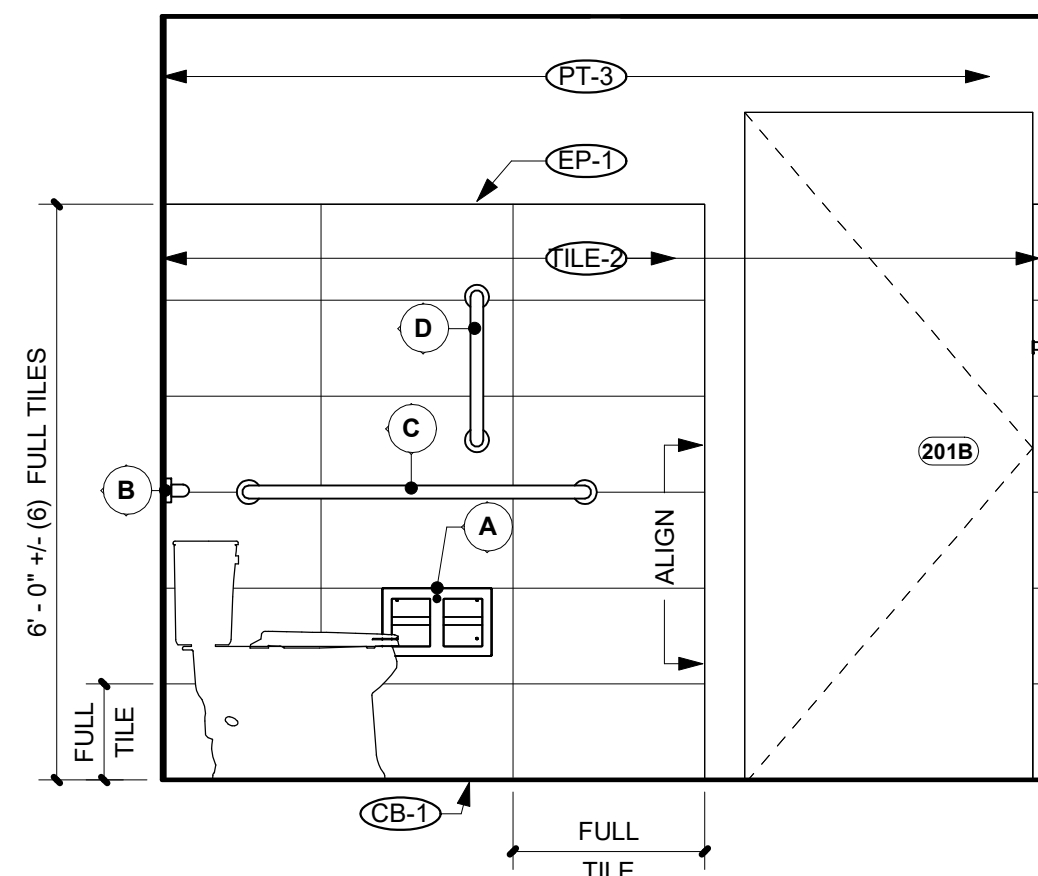
9 RESTROOM SOUTH - SECOND FLOOR
SCALE: 1/2" = 1'-0"



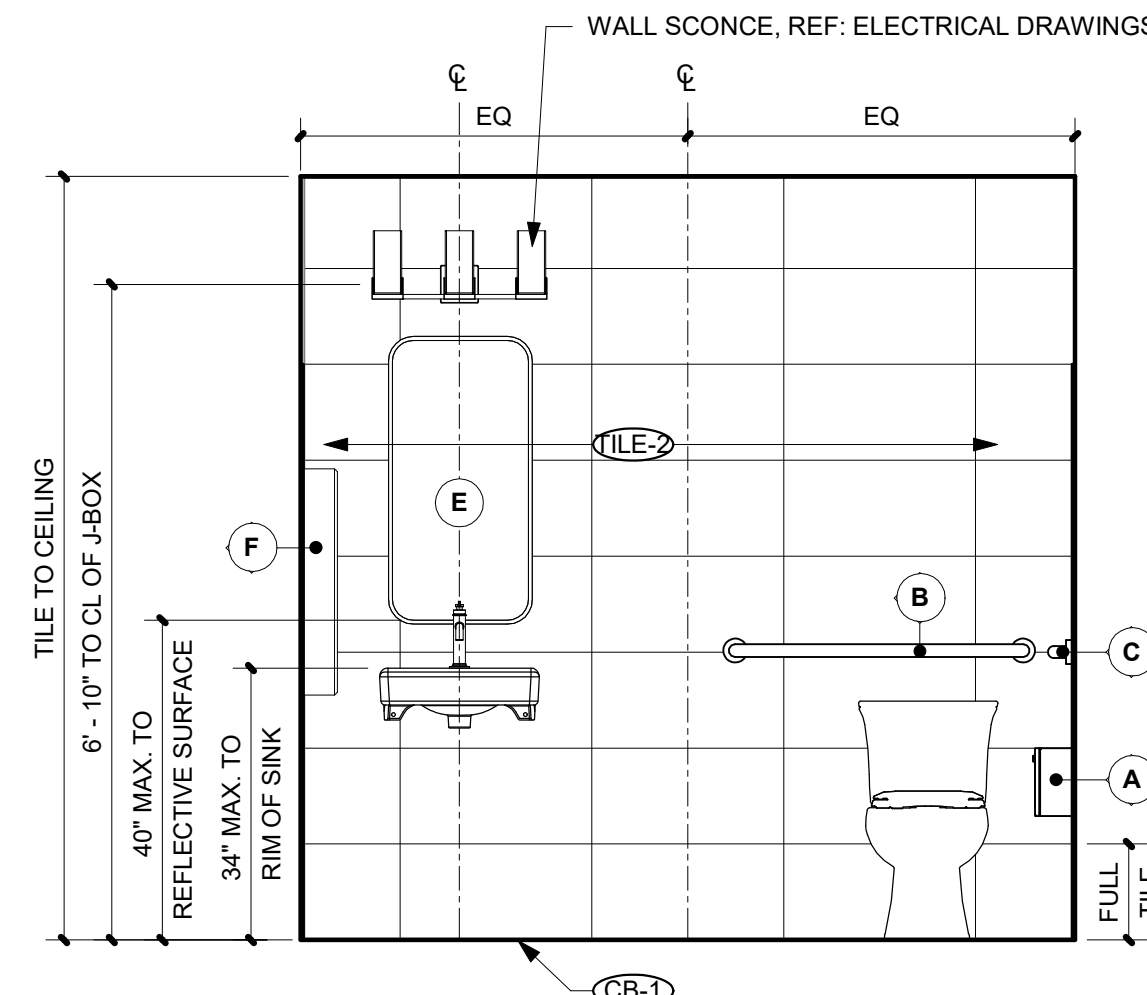
8 RESTROOM EAST - SECOND FLOOR
SCALE: 1/2" = 1'-0"



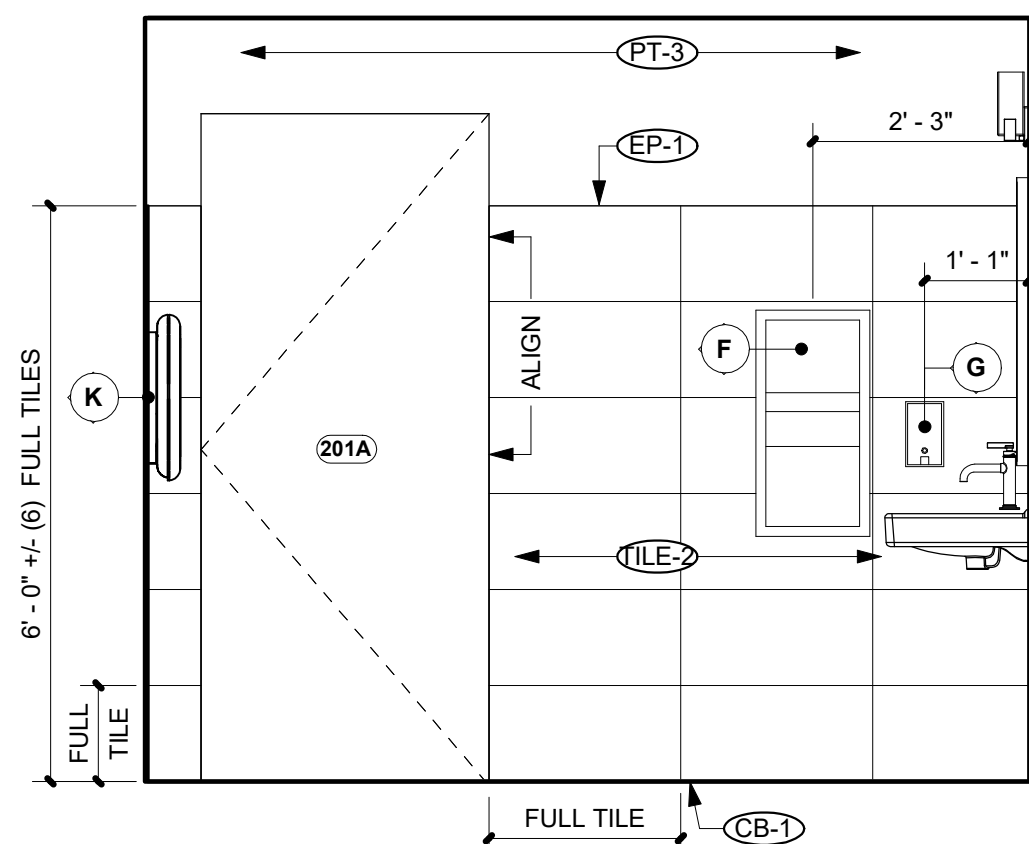
7 RESTROOM NORTH - SECOND FLOOR
SCALE: 1/2" = 1'-0"



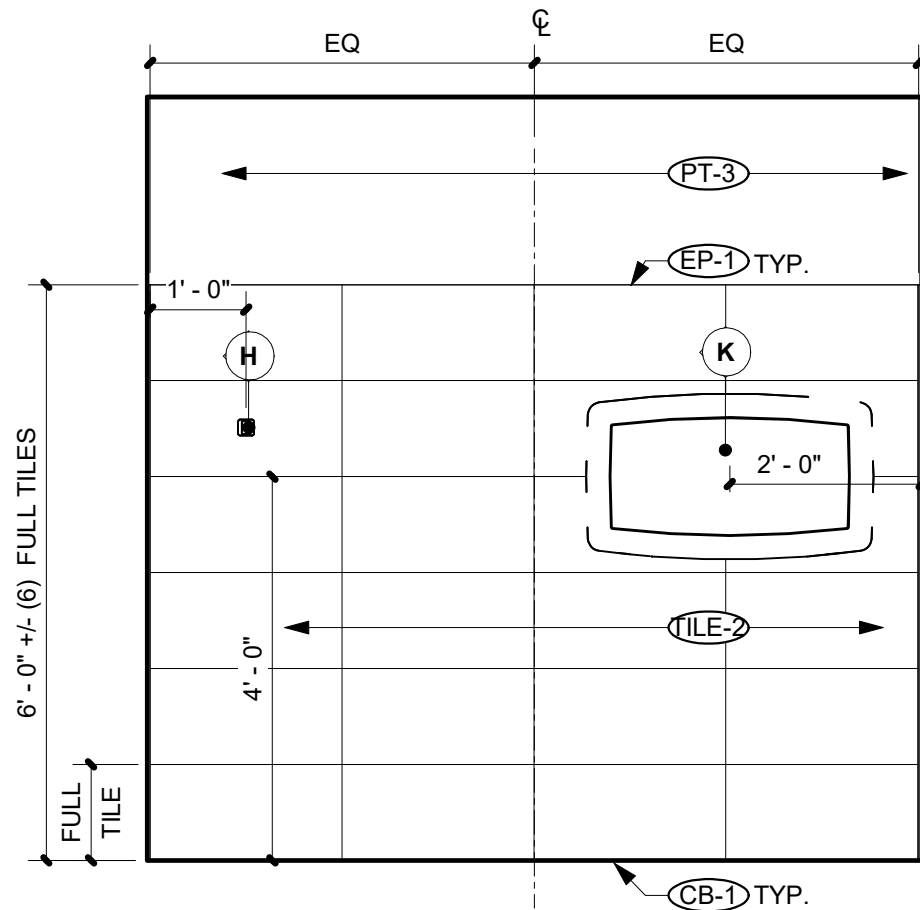
6 RESTROOM FIRST FLOOR WEST
SCALE: 1/2" = 1'-0"



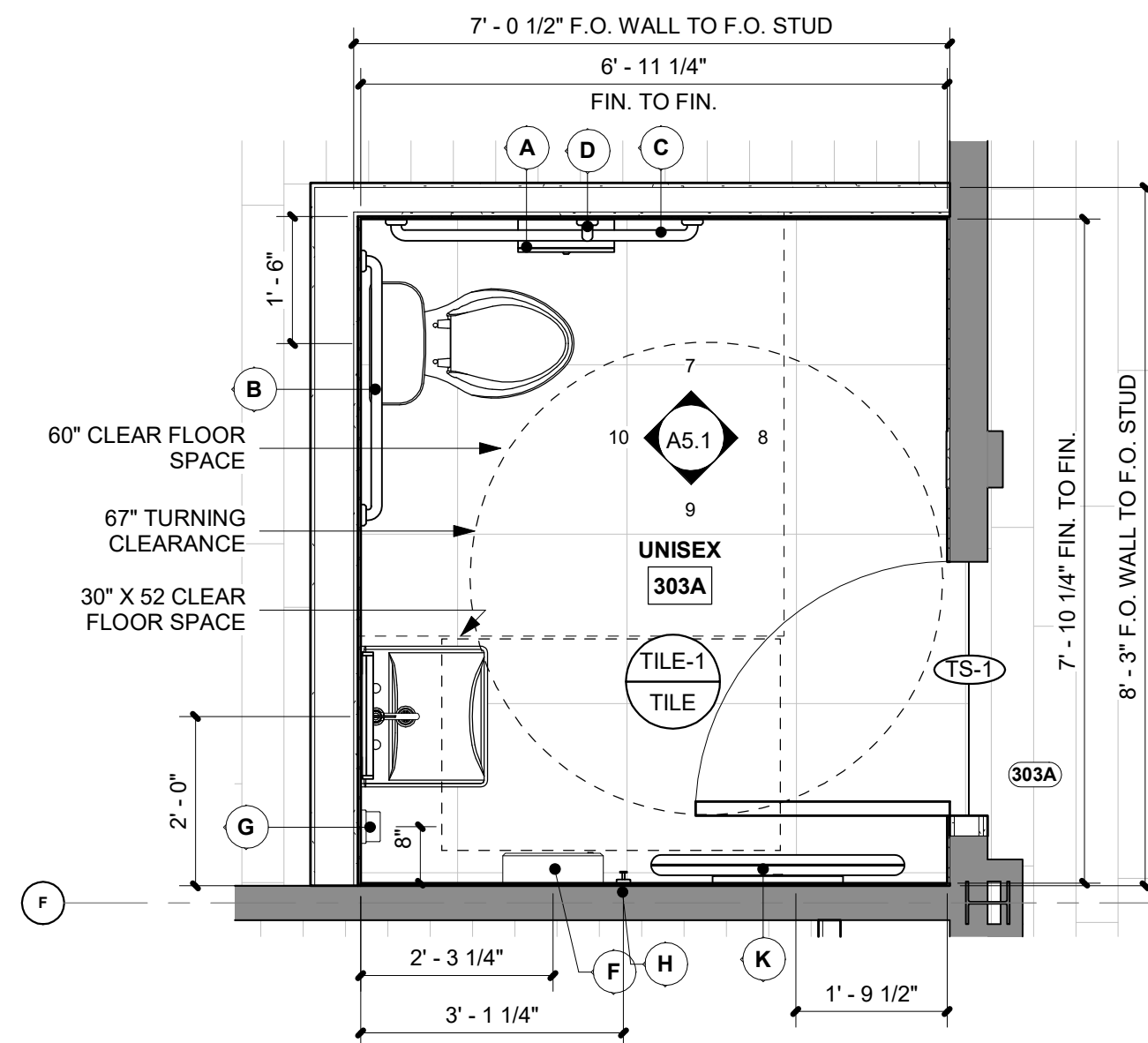
5 RESTROOM SOUTH - FIRST FLOOR
SCALE: 1/2" = 1'-0"



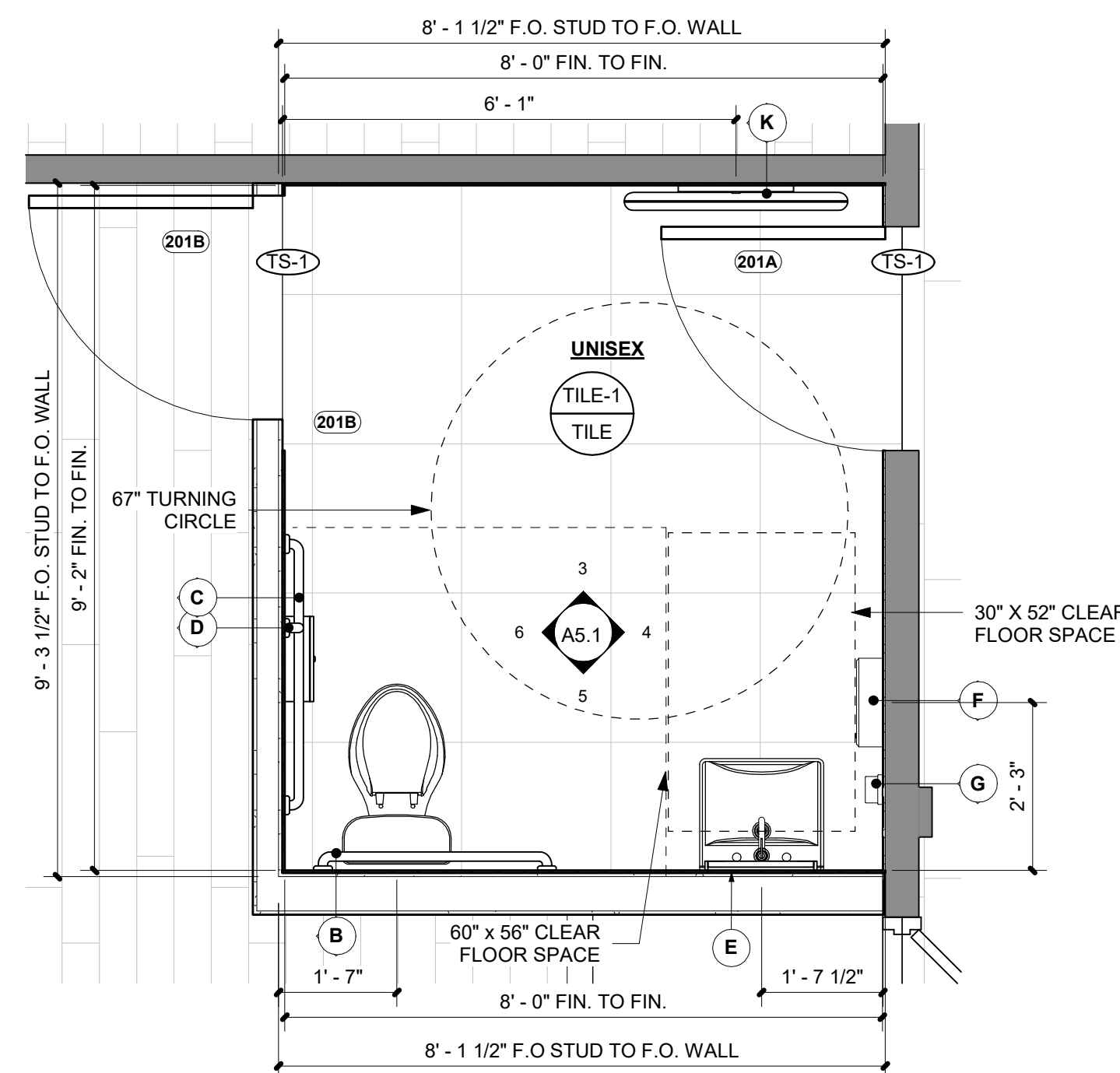
4 RESTROOM FIRST FLOOR - EAST
SCALE: 1/2" = 1'-0"



3 RESTROOM FIRST FLOOR - NORTH
SCALE: 1/2" = 1'-0"



2 ENLARGED RESTROOM PLAN - SECOND FLOOR
SCALE: 1/2" = 1'-0"



1 ENLARGED RESTROOM PLAN - FIRST FLOOR
SCALE: 1/2" = 1'-0"

TOILET ACCESSORIES

- NOTE:
1. PROVIDE WOOD BLOCKING IN THE PARTITION WALLS AS REQUIRED TO MOUNT THE ACCESSORIES SHOWN. INSTALL ACOUSTIC BATT INSULATION BEHIND ALL RECESSED OR SEMI-RECESSED ACCESSORIES.
2. SEE SHEET G0.5 FOR ACCESSIBLE MOUNTING HEIGHTS & TOILET DETAILS.
3. REFER TO A8.0 FOR FINISH MATERIAL SPECIFICATIONS.
4. RESTROOM ACCESSORIES ARE PROVIDED BY THE GENERAL CONTRACTOR

MARK	ITEM	MODEL NUMBER
A	TOILET PAPER DISPENSER SURFACE MOUNTED, DOUBLE ROLL	BOBRICK B-540
B	GRAB BAR - 1 1/2" DIA., S/S, PREENED GRIP, SNAP FLANGE	BOBRICK B-6806.99 36" L.
C	GRAB BAR - 1 1/2" DIA., S/S PREENED GRIP, SNAP FLANGE	BOBRICK B-6806.99 42" L.
D	VERTICAL GRAB BAR - 1 1/2" DIA., S/S PREENED GRIP, SNAP FLANGE	BOBRICK B-6806.99 18" L.
E	MIRROR - FRAMED - LUMENS - ELEGANT LIGHTING - EVERMORE SOFT CORNER METAL RECTANGULAR VANITY 18X36 SILVER FINISH	EVERMORE ITEM #ELB2591719 MFG. ID MR801836S
F	PAPER TOWEL DISP SURFACE MOUNT	BOBRICK B-359039
G	SOAP DISPENSER - WALL SURFACE MOUNTED	BOBRICK B-4112
H	COAT HOOK	MOEN BP1803BN
J	NAPKIN DISPOSAL SURFACE MOUNT	BOBRICK B-270
K	BABY CHANGER - KOALA KARE HORIZONTAL SURFACE MOUNTED	KB300

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524

VFLA
ARCHITECTURE + INTERIORS

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STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

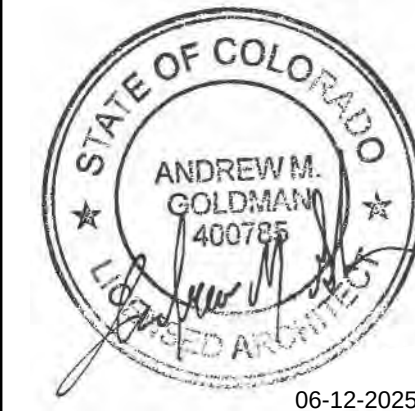
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ELECTRICAL ENGINEER:
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ENLARGED RESTROOM PLANS AND ELEVATIONS

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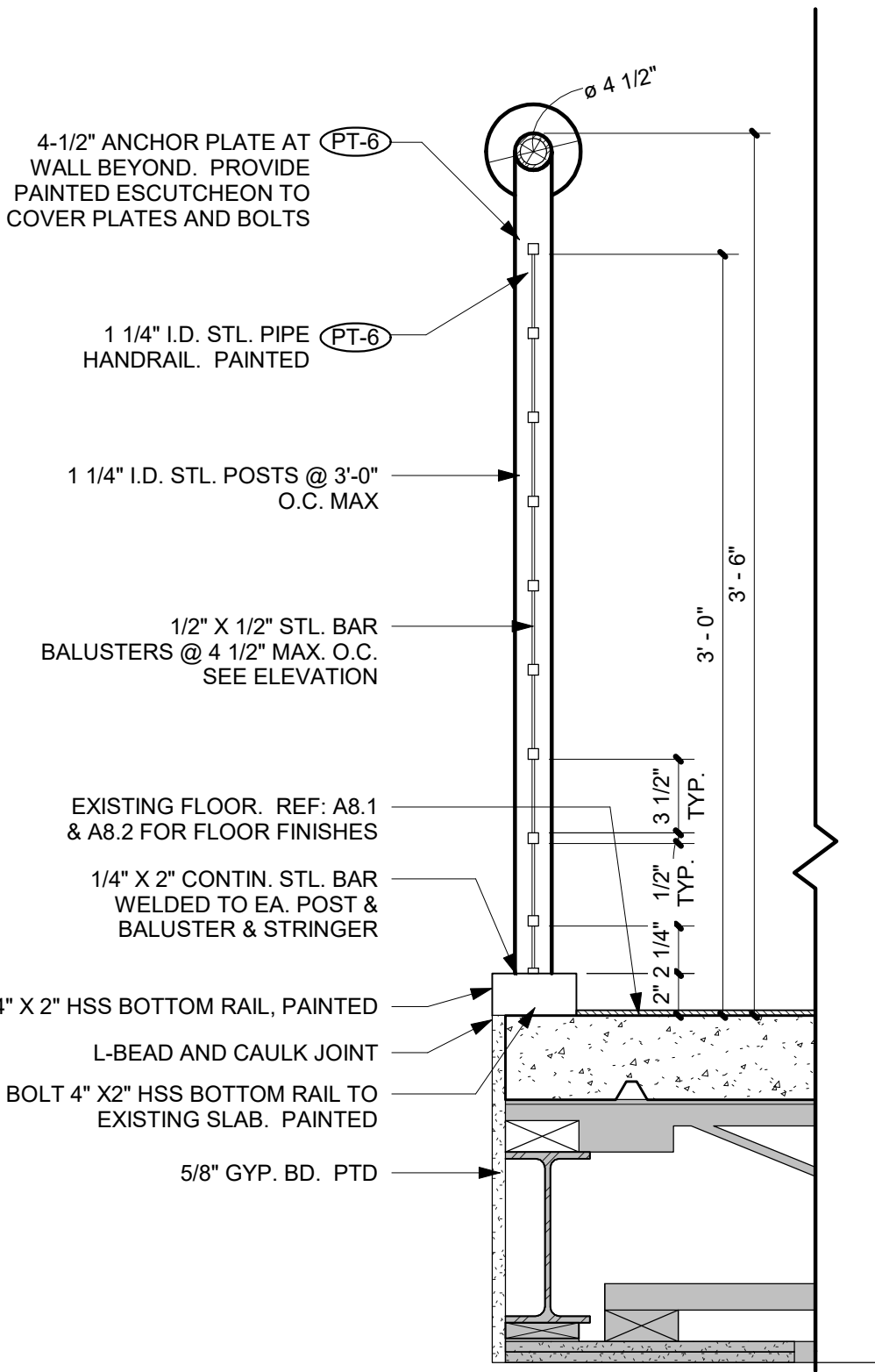
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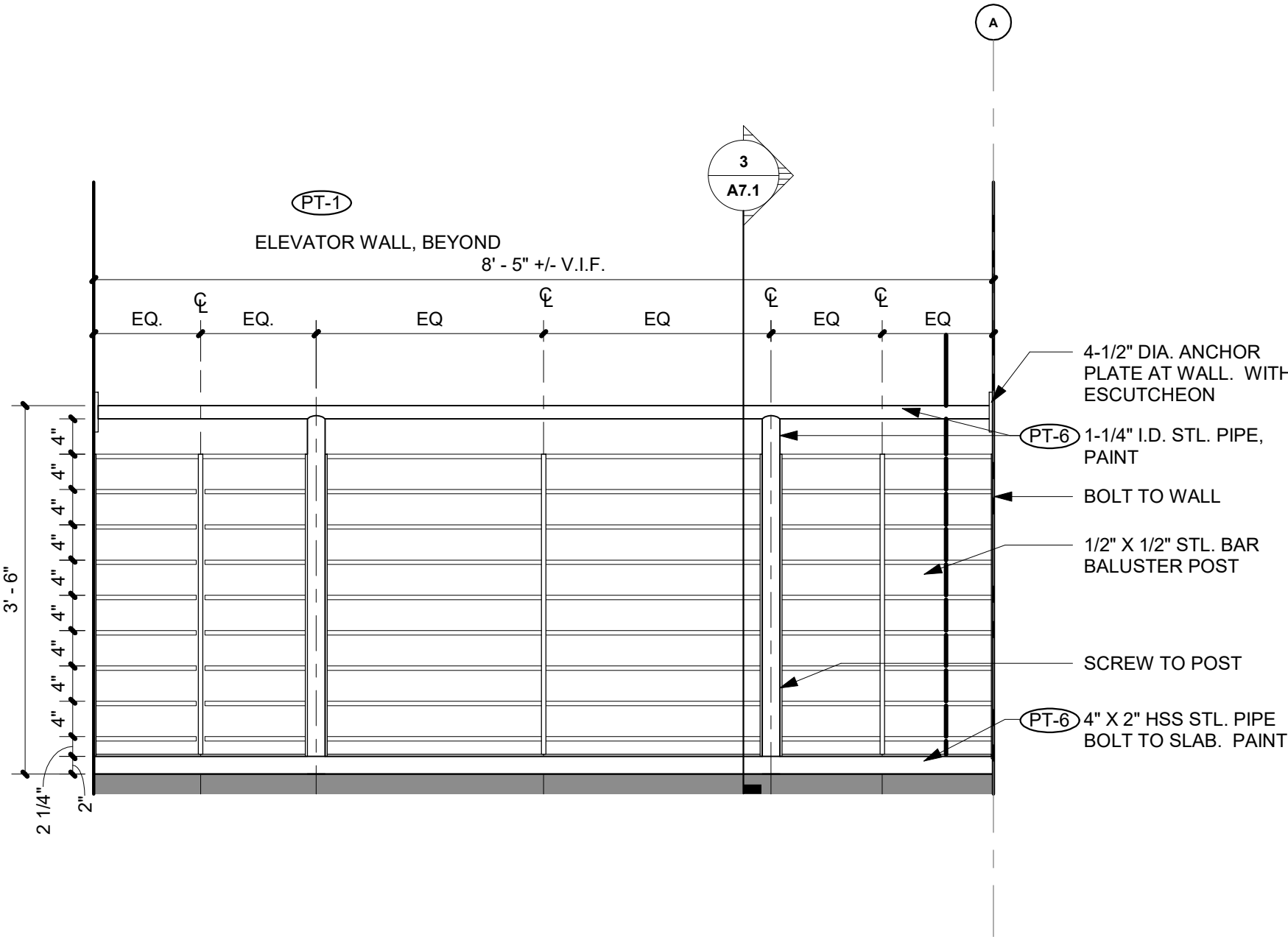
3 RAIL DETAIL

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



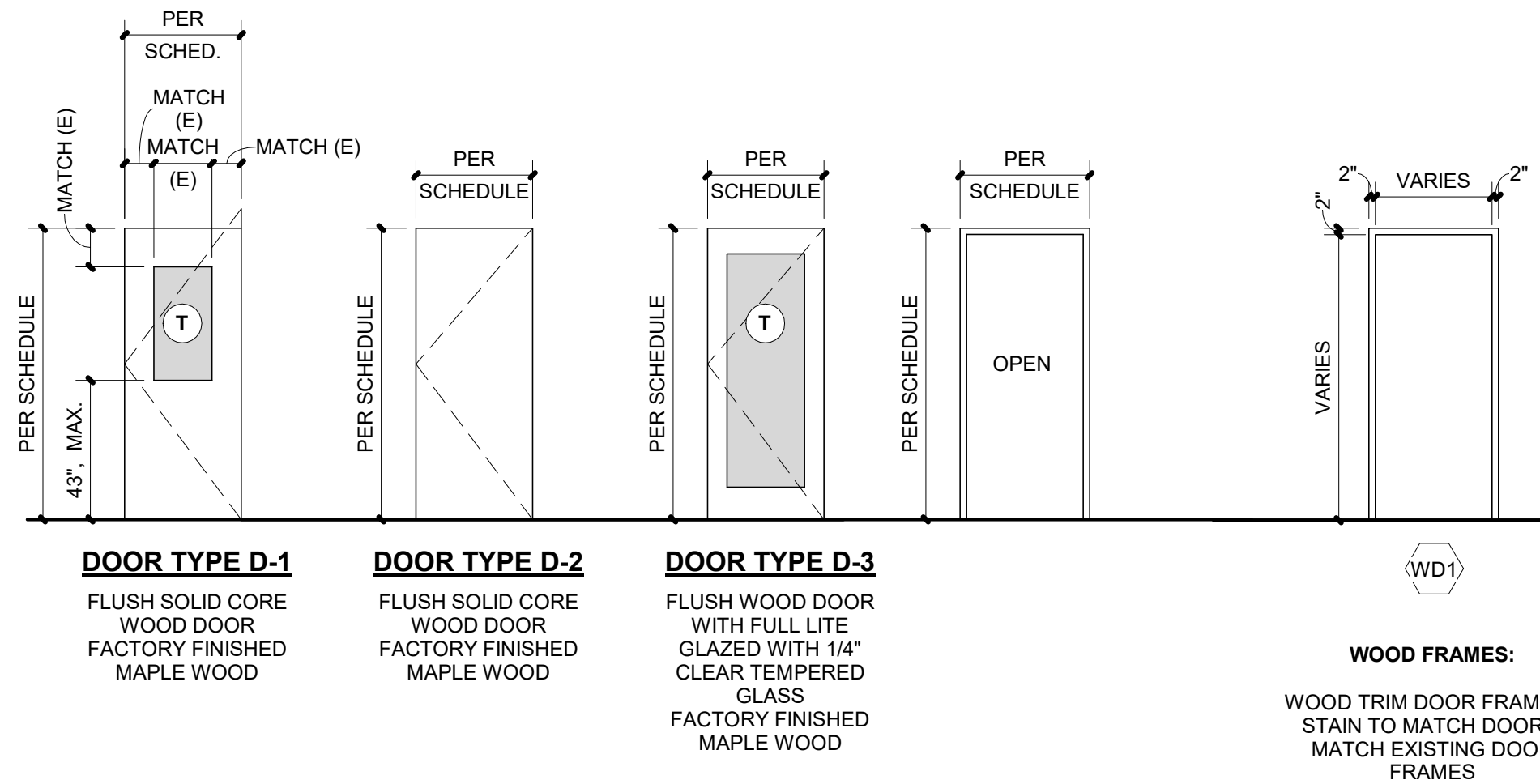
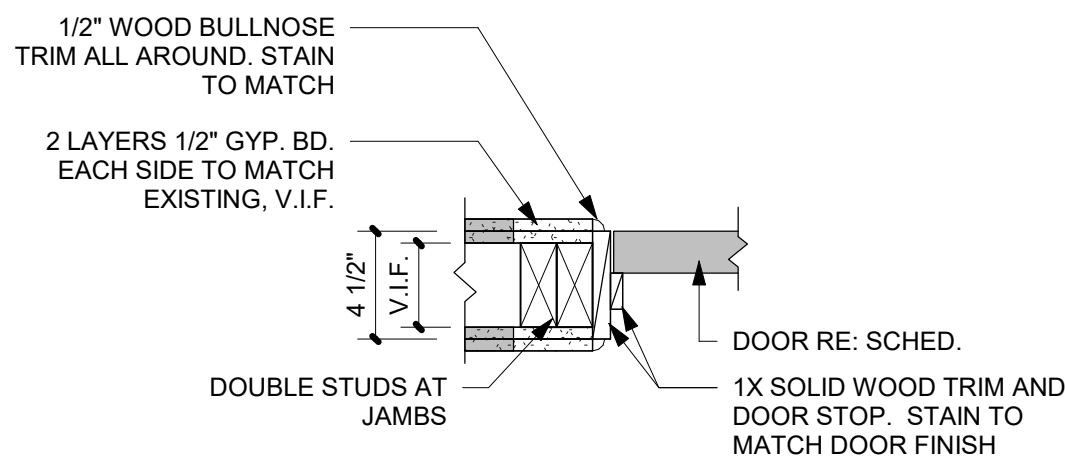
2 RAILING ELEVATION

SCALE: 3/4\"/>



1 STAINED WOOD FRAME IN EXISTING WOOD STUD PARTITION - JAMB DETAIL (HEAD SIM.)

SCALE: 1 1/2\"/>



DOOR TYPES

FRAME TYPES

DOOR SCHEDULE																
NUMBER	TYPE	# OF PANELS	DOOR					FRAME			FIRE RATING	HARDWARE SET	DETAILS			COMMENTS
			WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL	FINISH			HEAD	JAMB	SILL	
EDUCATION WING BASEMENT																
102	D-1	1	3' - 0"	6' - 8"	1 3/4"	WD / GL	S&C	WD1	WD	S&C	--	4	1/A7.1	1/A7.1	--	REINSTALLED EXISTING DOOR HARDWARE
103	D-1	1	3' - 0"	6' - 8"	1 3/4"	WD / GL	S&C	WD1	WD	S&C	--	4	1/A7.1	1/A7.1	--	REINSTALLED EXISTING DOOR HARDWARE
114	D-2	1	3' - 0"	6' - 8"	1 3/4"	WD	S&C	WD1	WD	S&C	--	4	1/A7.1	1/A7.1	--	REINSTALLED EXISTING DOOR HARDWARE
115	D-2	1	3' - 0"	6' - 8"	1 3/4"	WD	S&C	WD1	WD	S&C	--	2	1/A7.1	1/A7.1	--	
GROUND FLOOR																
	D-#		6' - 2"	7' - 0"	1 3/4"											
	D-#		6' - 0"	17' - 2 1/2"	1 3/4"											
EDUCATION WING FIRST FLOOR																
201A	D-2	1	3' - 0"	6' - 8"	1 3/4"	WD	S&C	WD1	WD	S&C	--	3	1/A7.1	1/A7.1	--	
201B	D-2	1	3' - 0"	6' - 8"	1 3/4"	WD	S&C	WD1	WD	S&C	--	3	1/A7.1	1/A7.1	--	
208A	D-1	1	3' - 0"	6' - 8"	1 3/4"	WD / GL	S&C	WD1	WD	S&C	--	1	1/A7.1	1/A7.1	--	
209A	D-1	1	3' - 0"	6' - 8"	1 3/4"	WD / GL	S&C	WD1	WD	S&C	--	4	1/A7.1	1/A7.1	--	REINSTALLED EXISTING DOOR HARDWARE
210	D-1	1	3' - 0"	6' - 8"	1 3/4"	WD / GL	S&C	WD1	WD	S&C	--	4	1/A7.1	1/A7.1	--	REINSTALLED EXISTING DOOR HARDWARE
EDUCATION WING SECOND FLOOR																
303	D-1	1	3' - 0"	6' - 8"	1 3/4"	WD / GL	S&C	WD1	WD	S&C	--	1	1/A7.1	1/A7.1	--	
303A	D-2	1	3' - 0"	6' - 8"	1 3/4"	WD / GL	S&C	WD1	WD	S&C	--	3	1/A7.1	1/A7.1	--	
304	D-1	1	3' - 0"	6' - 8"	1 3/4"	WD / GL	S&C	WD1	WD	S&C	--	1	1/A7.1	1/A7.1	--	
305A	D-3	1	3' - 0"	7' - 0"	1 3/4"	WD	S&C	WD1	WD	S&C	--	1	1/A7.1	1/A7.1	--	
305B	D-3	1	3' - 0"	7' - 0"	1 3/4"	WD	S&C	WD1	WD	S&C	--	1	1/A7.1	1/A7.1	--	
305C	D-3	1	3' - 0"	7' - 0"	1 3/4"	WD	S&C	WD1	WD	S&C	--	1	1/A7.1	1/A7.1	--	
307	D-1	1	3' - 0"	6' - 8"	1 3/4"	WD / GL	S&C	WD1	WD	S&C	--	1	1/A7.1	1/A7.1	--	
308	D-1	1	3' - 0"	6' - 8"	1 3/4"	WD / GL	S&C	WD1	WD	S&C	--	1	1/A7.1	1/A7.1	--	

DOOR AND WINDOW NOTES

- ALL EXISTING ROUGH OPENINGS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING SCHEDULED REPLACEMENT UNITS.
- DOOR / WINDOW MANUFACTURER SHALL PROVIDE TEMPERED GLASS WHERE REQUIRED PER CODE (IBC 2406).
- CONTRACTOR SHALL COORDINATE DOOR ACCESSORIES AND FINISHES WITH OWNER PRIOR TO ORDERING.
- CONTRACTOR SHALL PROVIDE WINDOW AND DOOR SHOP DRAWINGS FOR ARCHITECT REVIEW PRIOR TO ORDERING.
- DOOR / WINDOW MANUFACTURER SHALL PROVIDE COLOR COORDINATING GLASS SPACERS AT ALL INSULATED GLASS ASSEMBLIES (IE BLACK SPACERS FOR BLACK FRAMES AND BRONZE SPACERS AT BRONZE FRAMES, ETC)
- DOORS PLACED WITHIN STAIR ENCLOSURES ARE TO HAVE DOOR CLOSERS AND PANIC HARDWARE.
- GC SHALL RE-KEY ALL EXISTING AND NEW LOCKSETS PER OWNER'S DIRECTION.
- REFER TO PLANS FOR DOOR LOCATIONS AND SWING DIRECTIONS.
- DOOR STAIN SHALL BE MASONITE ARCHITECTURAL DOORS FACTORY FINISHED STAIN - WHITE MAPLE PLAIN SLICE - COLOR: **HONEY**. GC TO PROVIDE SAMPLE FOR FINAL OWNER / ARCHITECT APPROVAL.
- NEW DOOR FRAMES TO BE TIMELY CLASSIC SERIES, ADJUSTABLE KNOCK-DOWN METAL DOOR FRAMES WITHOUT TRIM
- DOOR HARDWARE FINISH AND TYPE SCHLAGE ELAN BRIGHT BRASS OR SIMILAR.

DOOR HARDWARE GROUPS

HARDWARE SET #1 - OFFICE ROOMS

HINGES
WALL STOP
DOOR SILENCER
OFFICE LOCKSET

HARDWARE SET #2 - RESTROOMS

HINGES
PUSHPLATE
KICKPLATE ON PUSH SIDE
PULL PLATE
SURFACE CLOSER
WALL STOP

HARDWARE SET #3 - SINGLE USER RESTROOMS

HINGES
SURFACE CLOSER WITH HOLD OPEN OPTION
KICKPLATE ON PUSH SIDE
WALL STOP
DOOR SILENCER
OCCUPANCY SENSOR
PRIVACY LOCK

HARDWARE SET #4 - REINSTALLED OFFICE LOCKSETS

(E) HINGES
WALLSTOP - NEW
DOOR SILENCER - NEW
(E) OFFICE LOCKSET - REINSTALLED

ABBREVIATIONS

ALUM	ALUMINUM
HM	HOLLOW METAL
PREFIN	PRE-FINISHED
PTD	PAINTED
S&C	SAND AND CLEAR FINISH (FACTORY APPLIED)
STL	STEEL
WD	WOOD
T	TEMPERED GLASS PANEL

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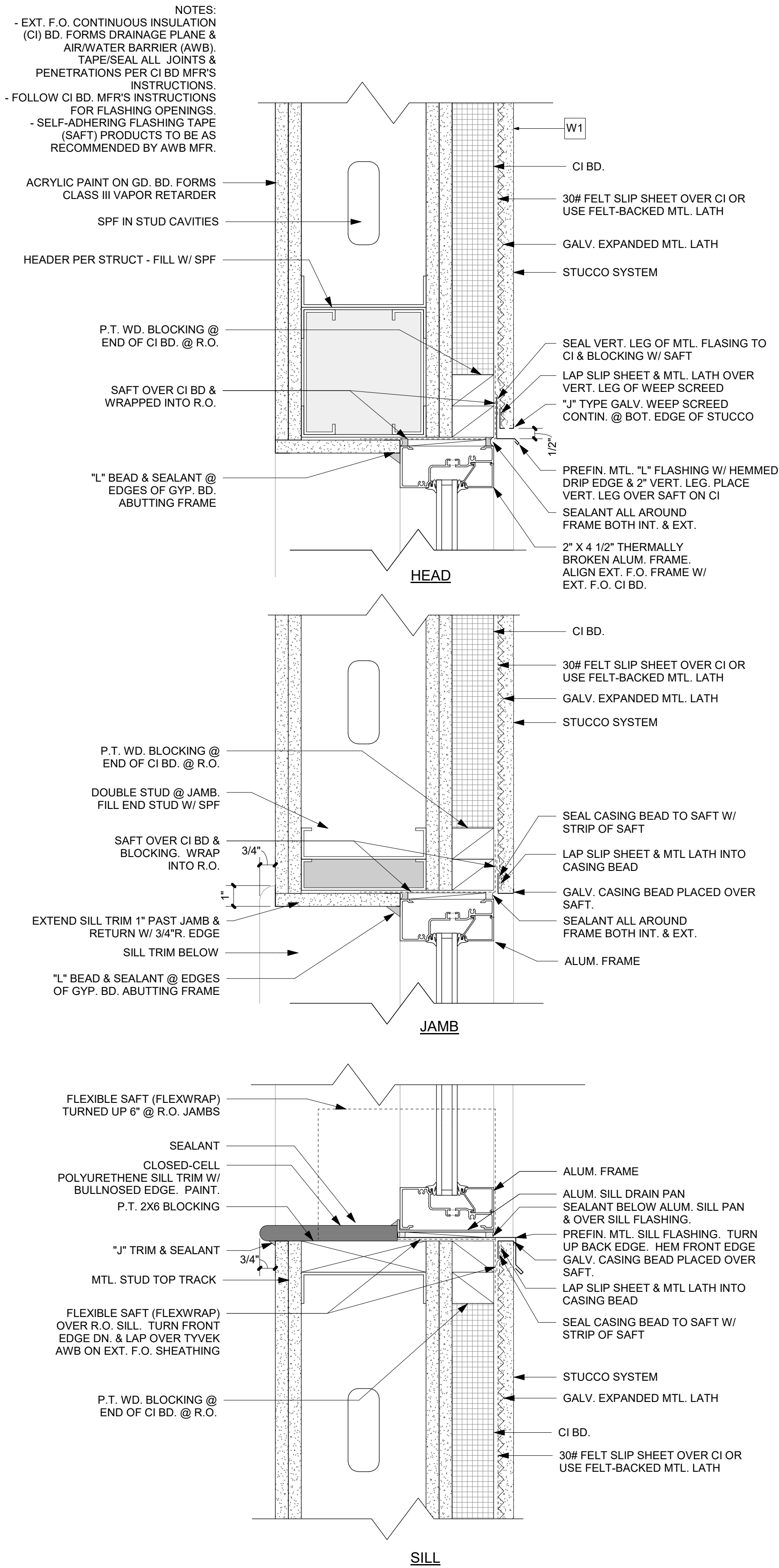
DOOR AND WINDOW SCHEDULES, & RAIL DETAILS

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1 ALUMINUM WINDOW DETAILS

SCALE: 3" = 1'-0"

IBC 2406.3 IDENTIFICATION OF SAFETY GLAZING.
EXCEPT AS INDICATED IN SECTION 2406.3.1, EACH PANE OF SAFETY GLAZING INSTALLED IN HAZARDOUS LOCATIONS SHALL BE IDENTIFIED BY A MANUFACTURER'S DESIGNATION SPECIFYING WHO APPLIED THE DESIGNATION, THE MANUFACTURER OR INSTALLER AND THE SAFETY GLAZING STANDARD WITH WHICH IT COMPLIES, AS WELL AS THE INFORMATION SPECIFIED IN SECTION 2403.1. THE DESIGNATION SHALL BE ACID ETCHED, SAND BLASTED, CERAMIC FIRED, LASER ETCHED, EMBOSSED OR OF A TYPE THAT ONCE APPLIED, CANNOT BE REMOVED WITHOUT BEING DESTROYED. A LABEL MEETING THE REQUIREMENTS OF THIS SECTION SHALL BE PERMITTED IN LIEU OF THE MANUFACTURER'S DESIGNATION.

IBC 2406.4.1 GLAZING IN DOORS
GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS SHALL BE CONSIDERED A HAZARDOUS LOCATION.

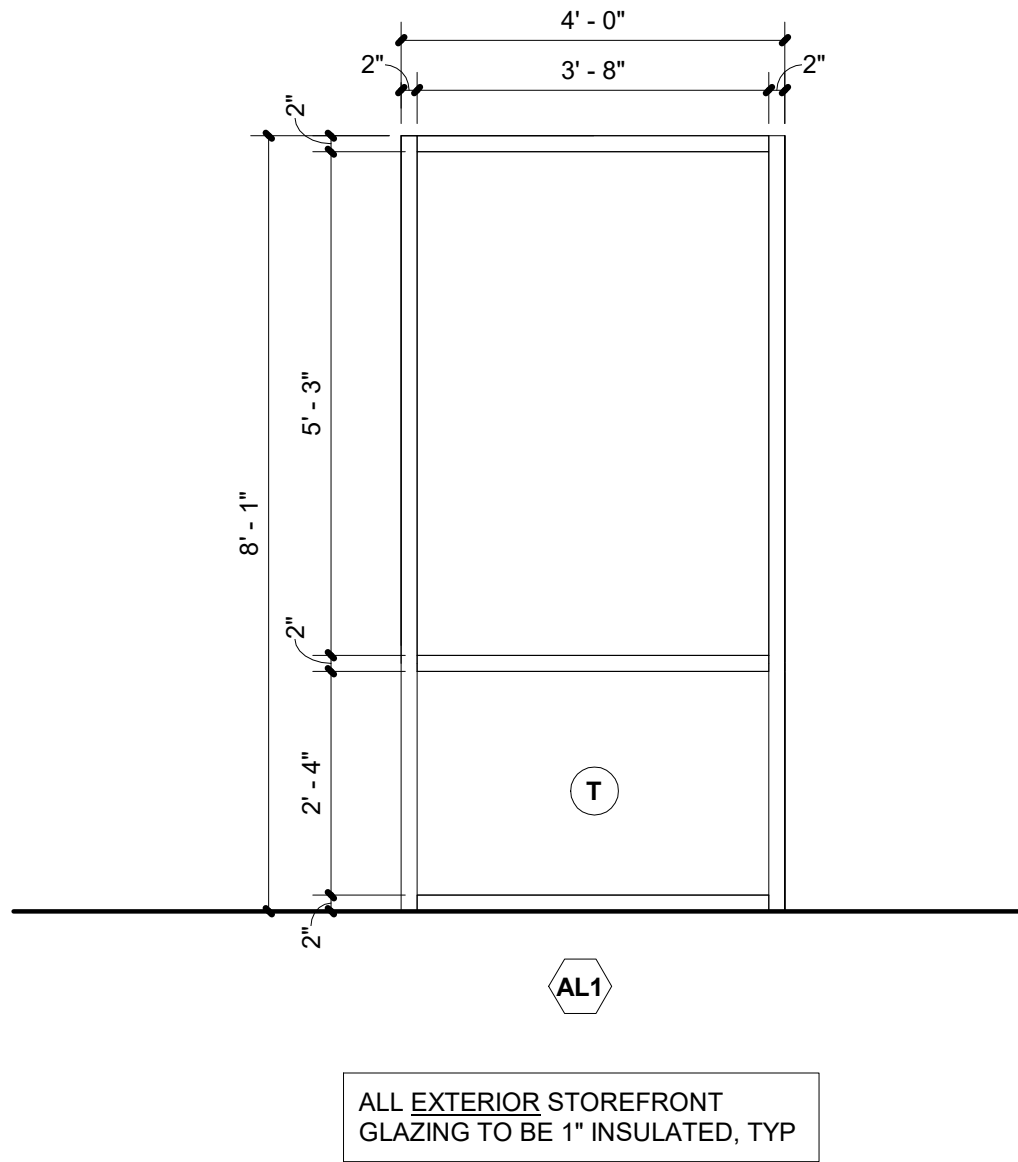
2406.4.2 GLAZING ADJACENT TO DOORS
GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN A 24-INCH (610 MM) ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES (1524 MM) ABOVE THE WALKING SURFACE SHALL BE CONSIDERED A HAZARDOUS LOCATION.

2406.4.3 GLAZING IN WINDOWS
GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS SHALL BE CONSIDERED A HAZARDOUS LOCATION:

1. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET (0.84 M2).
2. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES (457 MM) ABOVE THE FLOOR.
3. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36 INCHES (914 MM) ABOVE THE FLOOR.
4. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36 INCHES (914 MM), MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING.

STOREFRONT GENERAL NOTES

1. ALUMINUM STOREFRONT WINDOW SYSTEM - BASIS OF DESIGN: KAWNEER 451T THERMALLY BROKEN FRAMES, **CLEAR ANODIZED FINISH** OR APPROVED EQUAL
2. ALL EXTERIOR FRAMES TO BE ALUMINUM STOREFRONT U.N.O. ALL EXTERIOR ALUM. FRAMES TO BE THERMALLY BROKEN FRAMES. PROVIDE SAMPLE OF FRAME IN SUBMITTAL. ASSEMBLY U-FACTOR NOT TO EXCEED 0.36
3. PROVIDE MATCHING BRAKE METAL COVERS AND ACCESSORIES WHERE REQUIRED TO MEET ADJACENT CONSTRUCTION, U.N.O.
4. EXTERIOR GLAZING TO BE PPG 1" LOW-E SOLARBAN 72 INSULATED GLASS, CLEAR + CLEAR, U.N.O. MAX U (WINTER) 0.29 (SUMMER) 0.24 **MAX SHGC 0.38**.
5. MAX AIR LEAKAGE RATE SHALL BE 0.2 CUBIC FOOT PER MINUTE PER SQUARE FOOT OF FENESTRATION AREA PER 2021 IECC.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL OPENING SIZES BEFORE PROCEEDING WITH FABRICATION.
7. DIMENSIONS PROVIDED REPRESENT NOMINAL UNIT SIZE. INSTALLER TO PROVIDE ADDITIONAL ALLOWANCES FOR CONSTRUCTION TOLLERANCES, BLOCKING, SHIMMING, ATTACHMENTS, ETC.
8. PROVIDE ELASTOMERIC JOINT SEALANT AT PERIMETER OF STOREFRONT UNITS, TYPICAL. DO NOT BLOCK WEEP HOLES OR OTHER DRAINAGE PATHWAYS
9. PROVIDE SAFETY GLAZING AT LOCATIONS INDICATED AND AS REQUIRED BY 2021 IBC AND PROJECT CONDITIONS.



ALUMINUM FRAME TYPES

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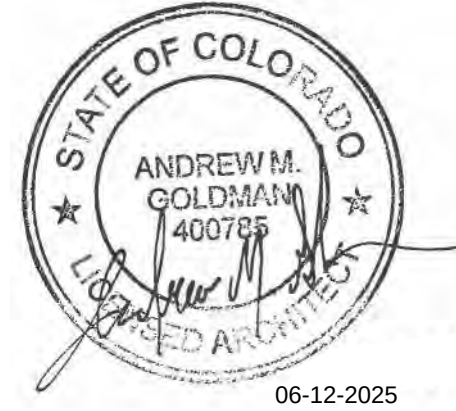
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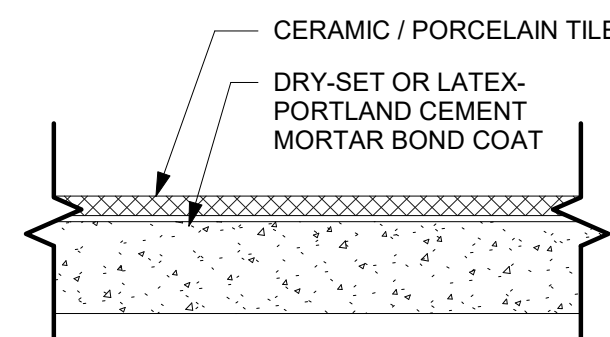
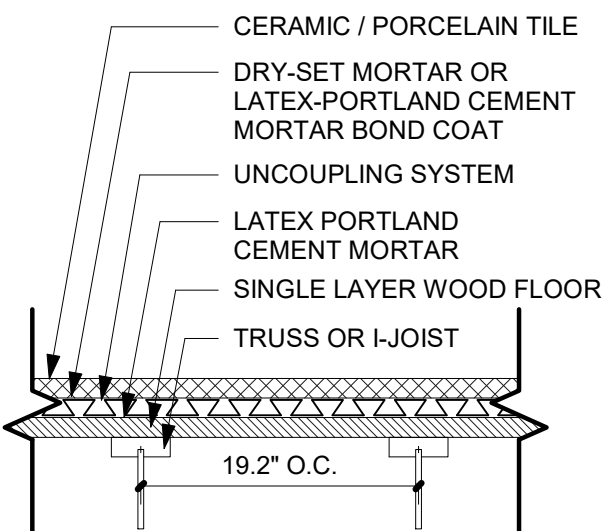
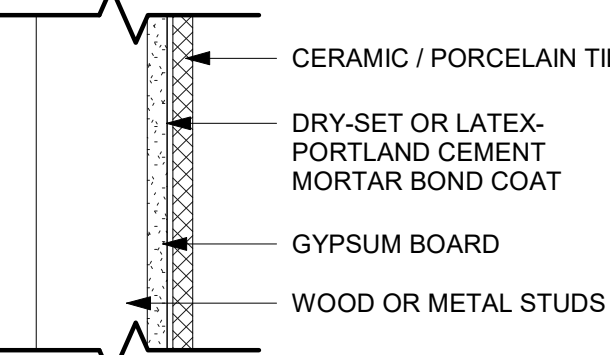
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STOREFRONT FRAME SCHEDULES

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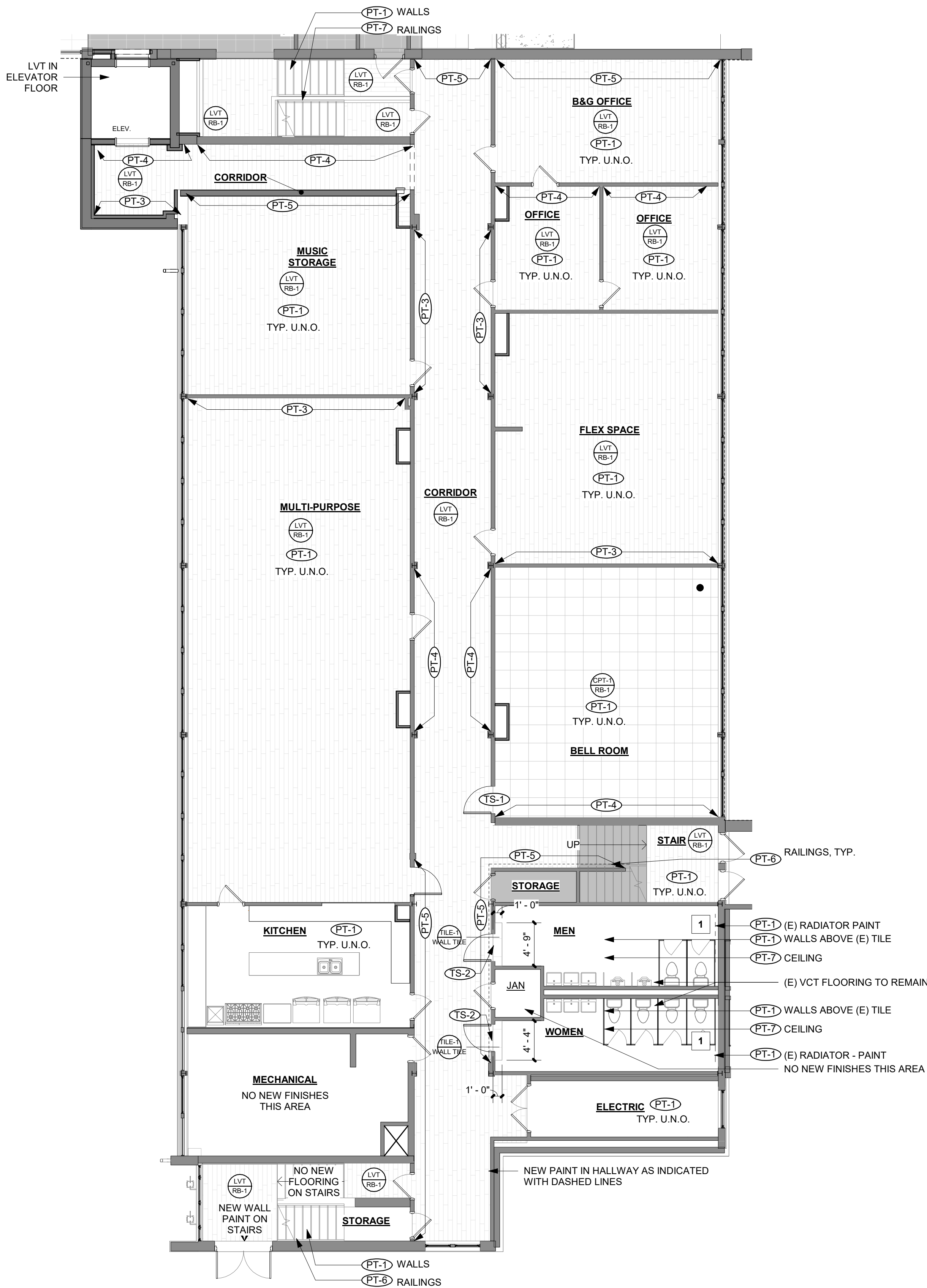
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STANDARD TCNA DETAILS				INTERIOR FINISH SELECTIONS		GENERAL FINISH NOTES	
INTERIOR FLOORS				FLOORING SELECTIONS & ABBREVIATIONS		FLOORING FINISH NOTES	
DRY-SET MORTAR or LATEX-PORTLAND CEMENT MORTAR		F113-05	WOOD SUBFLOOR, 19.2" O.C. JOIST SPACING, WITH UNCOUPLING SYSTEM		F148-03		
						1. CARPET SEAMS & LVT, TRANSITIONS AND THRESHOLDS SHALL BE LOCATED AT CENTERLINE OF DOOR WHEN IN CLOSED POSITION, U.N.O. 2. FLOORING TRANSITIONS SHALL ALIGN WITH FINISH BASE EXCEPT AT DOORS, U.N.O. PROVIDE FLOORING TRANSITIONS AS REQUIRED THROUGHOUT INCLUDING METAL EDGE PROTECTIVE TRIM FOR ALL TILE TO OTHER FLOOR MATERIAL TRANSITION AS REQUIRED. 3. SEE FINISH PLANS FOR LOCATIONS OF FLOORING TRANSITIONS AT OPENINGS. 4. TILE SHALL BE INSTALLED PER CURRENT TCNA METHODS. SEE INTERIOR ELEVATIONS FOR WALL TILE LAYOUT, SEE FINISH PLAN FOR FLOOR TILE LOCATIONS.. 5. PROVIDE MAPEI #PRP M19 "MAPELASTIC R" (ROLLER-APPLIED WATERPROOFING MEMBRANE) ON FLOOR AND 6" UP WALL PRIOR TO INSTALLING FLOORING IN SECOND FLOOR RESTROOMS. 6. TILE FLOORS (CERAMIC, LUXURY VINYL, CARPET TILE) SHALL BE CENTERED WITHIN SPACE, U.N.O. 7. AVOID PARTIAL FLOOR TILES LESS THAN 3" WIDE OR HALF THE TILE SIZE, WHICHEVER IS SMALLER. 8. ALL ADHESIVES SHALL BE USED WITH ADHERED FLOORING MATERIALS SHALL TOLERATE THE FOLLOWING MAXIMUM LEVELS OF WATER VAPOR AND PH: a. WATER VAPOR PER MVER TEST: 5 LBS/24 HRS/1000 S.F. b. WATER VAPOR PER RELATIVE HUMIDITY TEST: 85% c. PH: 11 9. IT IS THE CARPET SUBCONTRACTORS RESPONSIBILITY TO BUDGET FOR ALL NECESSARY COSTS TO PROVIDE AN ACCEPTABLE CARPET INSTALLATION PER THE CARPET AND RUG INSTITUTE STANDARD FOR INSTALLATION OF COMMERCIAL CARPET AND TO INFORM THE GC OF ANY POTENTIAL PROBLEMS WITH THE PRODUCTS SPECIFIED BEFORE PLACING ORDER AND BEFORE INSTALLING ANY PRODUCT.	
RECOMMENDED USES: - ON PLANE, CLEAN CONCRETE - ON SLAB-ON-GRADE CONSTRUCTION WHERE NO BENDING STRESSES OCCUR - SEE PAGE 17 NOTE FOR EXTERIOR USES - SEE CAUTION AT BOTTOM OF PAGE		RECOMMENDED USES: - OVER STRUCTURALLY SOUND WOOD FLOORS SUBJECT TO RESIDENTIAL TRAFFIC WITH 19.2" ON CENTER FLOOR JOIST SPACING - INTERIOR DRY OR WET AREAS					
LIMITATIONS: - METHOD F111 IS THE PREFERRED METHOD OVER PRECAST CONCRETE FLOOR SYSTEMS, POST-TENSIONED CONCRETE FLOOR SYSTEMS, AND OTHER FLOORS SUBJECT TO MOVEMENT OR DEFLECTION - METHOD F113 MAY BE SUITABLE FOR ABOVE-GRADE STRUCTURAL SLAB INSTALLATIONS WHEN SPECIFIC MORTAR AND GROUT PRODUCTS RECOMMENDED BY THE MANUFACTURER ARE SPECIFIED. NOT ALL MODIFIED MORTAR AND GROUT PRODUCTS ARE SUITABLE FOR THIS APPLICATION - DEFLECTION NOT TO EXCEED 1/360 OF SPAN FOR ABOVE-GRADE STRUCTURAL SLABS		LIMITATIONS: - REQUIRES SPECIALTY UNCOUPLING SYSTEM 4"x4" AND LARGER TILE ONLY					
REQUIREMENTS: - SLAB TO BE WELL CURED, DIMENSIONALLY STABLE, AND FREE OF CRACKS, WAXY OR OILY FILMS, AND CURING COMPOUNDS - BOND COAT 3/32" MIN.		REQUIREMENTS: - MAXIMUM SPACING OF FLOOR TRUSSES OR I-JOISTS IS 19.2" ON CENTER - DESIGN FLOOR AREAS OVER WHICH TILE IS TO BE APPLIED TO HAVE A DEFLECTION NOT GREATER THAN 1/360 OF THE SPAN WHEN MEASURED UNDER 300 POUND CONCENTRATED LOAD (SEE ASTM C927)					
MATERIALS: - MORTAR - USE ANSI A118.1 or A118.4 FOR SLAB-ON-GRADE INSTALLATIONS; <i>USE ONLY A MANUFACTURER'S DESIGNATED MORTAR FOR ABOVE-GRADE STRUCTURAL SLABS</i> - GROUT - USE ANSI 118.3, A118.6, A118.7, or A118.8 FOR SLAB-ON-GRADE INSTALLATIONS; <i>USE ONLY A MANUFACTURER'S DESIGNATED GROUT FOR ABOVE-GRADE STRUCTURAL SLABS</i>		MATERIALS: - LATEX-PORTLAND CEMENT MORTAR - ANSI A118.4 - DRY-SET MORTAR - ANSI A118.1 - POLYMER MODIFIED TILE GROUT - ANSI 118.7					
PREPARATION BY OTHER TRADES: - SLAB - STEEL TROWEL AND FINE BROOM FINISH FREE OF CURING COMPOUNDS (WHEN USED, MECHANICALLY SCARIFYING IS NECESSARY) - SLOPE, WHEN REQUIRED, TO BE IN SUBFLOOR - MAX. VARIATION IN THE SLAB - 1/4" IN 10'-0" FROM THE REQUIRED PLANE		PREPARATION BY OTHER TRADES: - SUBFLOOR - 23/32" TONGUE & GROOVE EXTERIOR-GLUE PLYWOOD WITH 1/8" GAP BETWEEN SHEETS - MAXIMUM VARIATION IN PLYWOOD SURFACE SHALL NOT EXCEED 1/4" IN 10'-0" FROM THE REQUIRED PLANE.					
MOVEMENT JOINT (ARCHITECT MUST SPECIFY TYPE OF JOINT AND SHOW LOCATION AND DETAILS ON DRAWINGS): - FOLLOW EJ171, PAGE 68, FOR SLAB-ON-GRADE INSTALLATIONS - ABOVE-GRADE STRUCTURAL SLABS REQUIRE: EXTERIOR JOINT SPACING; PERIMETER JOINTS ARE MANDATORY		MOVEMENT JOINT (ARCHITECT MUST SPECIFY TYPE OF JOINT AND SHOW LOCATION AND DETAILS ON DRAWINGS): MOVEMENT JOINTS - MANDATORY IN ACCORDANCE WITH METHOD EJ171, PAGE 44					
INSTALLATION SPECIFICATIONS: - TILE - ANSI A108.5 - GROUT - ANSI A108.10 - UNCOUPLING SYSTEM - FOLLOW MANUFACTURER'S DIRECTION		INSTALLATION SPECIFICATIONS: - TILE - ANSI A108.5 - GROUT - ANSI A108.10					
WOOD or METAL STUDS							
GYPSUM BOARD THIN-SET		W243-05					
							
RECOMMENDED USES: - DRY INTERIORS OVER GYPSUM BOARD - FOR DRY AREAS ONLY - OVER DRY, WELL-BRACED WOOD STUDS OR FURRING - OVER WELL-BRACED METAL STUDS							
LIMITATIONS: - IN WET AREAS SUCH AS TUB ENCLOSURES, USE METHOD B413 - DO NOT USE IN AREAS WHERE GYPSUM BOARD IS EXPOSED TO TEMPERATURES ABOVE 125 DEGREES F.							
REQUIREMENTS: - MAX. STUD SPACING - 16" ON CENTER - MIN. RECOMMENDED METAL STUD DEPTH - 3-5/8" - METAL STUDS - 20 GAUGE (0.039") OR HEAVIER							
MATERIALS: - GYPSUM BOARD - ASTM C36 or C630 - DRY-SET MORTAR - ANSI A118.1 - LATEX-PORTLAND CEMENT MORTAR - ANSI A118.4 - GROUT - ANSI A118.6 or A118.7							
PREPARATION BY OTHER TRADES: - MAX. VARIATION IN THE GYPSUM BOARD SURFACE - 1/4" IN 10'-0" FROM THE REQUIRED PLANE - GYPSUM BOARD JOINTS - TREATED WITH TAPE AND JOINT COMPOUND, BEDDING COAT ONLY (NO FINISH COATS), NAIL HEADS, ONE COAT ONLY							
INSTALLATION SPECIFICATIONS: - GYPSUM BOARD - GA-216 - TILE - ANSI A108.5 - GROUT - ANSI A108.10							

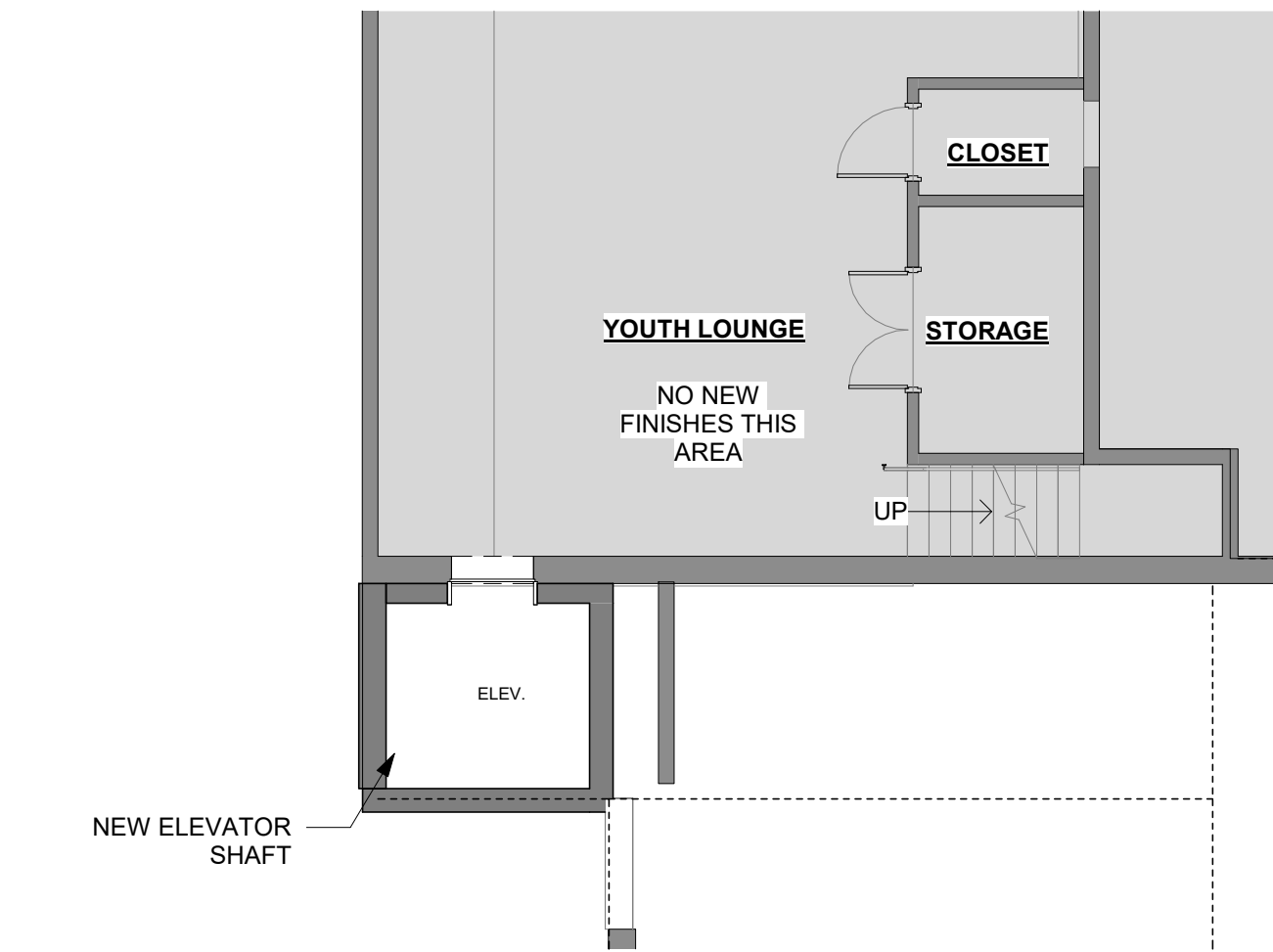
FLOORING SELECTIONS & ABBREVIATIONS		FLOORING FINISH NOTES		CASEWORK NOTES	
CPT-1	MILLIKEN; CARPET TILE - COLLECTIVE MIND - 25CM X 1M - MARVEL SYN207-165 - INSTALLATION: RANDOM ASHLAR	1. CARPET SEAMS & LVT, TRANSITIONS AND THRESHOLDS SHALL BE LOCATED AT CENTERLINE OF DOOR WHEN IN CLOSED POSITION, U.N.O. 2. FLOORING TRANSITIONS SHALL ALIGN WITH FINISH BASE EXCEPT AT DOORS, U.N.O. PROVIDE FLOORING TRANSITIONS AS REQUIRED THROUGHOUT INCLUDING METAL EDGE PROTECTIVE TRIM FOR ALL TILE TO OTHER FLOOR MATERIAL TRANSITION AS REQUIRED. 3. SEE FINISH PLANS FOR LOCATIONS OF FLOORING TRANSITIONS AT OPENINGS. 4. TILE SHALL BE INSTALLED PER CURRENT TCNA METHODS. SEE INTERIOR ELEVATIONS FOR WALL TILE LAYOUT, SEE FINISH PLAN FOR FLOOR TILE LOCATIONS.. 5. PROVIDE MAPEI #PRP M19 "MAPELASTIC R" (ROLLER-APPLIED WATERPROOFING MEMBRANE) ON FLOOR AND 6" UP WALL PRIOR TO INSTALLING FLOORING IN SECOND FLOOR RESTROOMS. 6. TILE FLOORS (CERAMIC, LUXURY VINYL, CARPET TILE) SHALL BE CENTERED WITHIN SPACE, U.N.O. 7. AVOID PARTIAL FLOOR TILES LESS THAN 3" WIDE OR HALF THE TILE SIZE, WHICHEVER IS SMALLER. 8. ALL ADHESIVES SHALL BE USED WITH ADHERED FLOORING MATERIALS SHALL TOLERATE THE FOLLOWING MAXIMUM LEVELS OF WATER VAPOR AND PH: a. WATER VAPOR PER MVER TEST: 5 LBS/24 HRS/1000 S.F. b. WATER VAPOR PER RELATIVE HUMIDITY TEST: 85% c. PH: 11 9. IT IS THE CARPET SUBCONTRACTORS RESPONSIBILITY TO BUDGET FOR ALL NECESSARY COSTS TO PROVIDE AN ACCEPTABLE CARPET INSTALLATION PER THE CARPET AND RUG INSTITUTE STANDARD FOR INSTALLATION OF COMMERCIAL CARPET AND TO INFORM THE GC OF ANY POTENTIAL PROBLEMS WITH THE PRODUCTS SPECIFIED BEFORE PLACING ORDER AND BEFORE INSTALLING ANY PRODUCT.		1. NEW CABINET HANDLES AND PULLS SHALL BE COSMAS 305-45N. 2. SOFT CLOSE HINGES ON ALL DOORS & DRAWERS. 3. DRAWER TRAY GLIDES SHALL BE ACCURIDE 3832-EC, EASY CLOSE FULL EXTENSION OR APPROVED EQUAL. 4. ALL BACKSPASHES SHALL MATCH COUNTERTOP MATERIAL, U.N.O. 5. GC SHALL PROVIDE ALL WOOD BLOCKING IN STUD WALLS TO ALLOW FOR THE ANCHORING OF ALL WALL ATTACHED CABINETS AND WALL MOUNTED TVS. 6. FIELD VERIFY ALL CASEWORK AND SHELVING DIMENSIONS PRIOR TO FABRICATION. 7. ALL SHELVING, IN REFERENCE TO CASEWORK ONLY, SHOWN WITH DASHED LINES SHALL BE ADJUSTABLE. 8. ALL FILE DRAWERS SHALL BE SIZED TO ACCEPT LETTER-SIZED HANGING FOLDER, ON RAILS WITH TALL FILE TABS MINIMUM; FOR FRONT TO BACK FILING. 9. REFER TO INTERIOR ELEVATIONS FOR DOOR HANDING. 10. ALL PLASTIC LAMINATE COUNTERTOPS SHALL HAVE SQUARE EDGES, U.N.O. 11. LIP OF SINK SHALL BE 3/4" ABOVE FINISHED FLOOR MAXIMUM. 12. ALL PLASTIC LAMINATE WORK SURFACES AND COUNTERS TO HAVE CHAMFERED EDGE, U.N.O. DOORS AND DRAWERS SHALL HAVE 3MM PVC EDGE BANDING, U.N.O. 1MM EDGEBANDING ON BASE AND UPPER CABINET BOXES AND SHELVES TO MATCH ADJACENT PLASTIC LAMINATE COLOR. 13. PROVIDE A FINISHED PANEL AT EXPOSED CASEWORK ENDS AND BACKS AS NEEDED, TO MATCH ADJACENT CASEWORK PLASTIC LAMINATE. ALL FINISHED END PANELS SHALL BE SCRIBED TO THE FLOOR 14. ADD FILLER PANEL AS NEEDED AT CABINETS, DRAWERS, ETC. TO ENSURE FULL DOOR SWING AND DRAWER OPERATION. PROVIDE A MINIMUM OF 1 1/2" FILLERS WHEN ADJACENT TO WALLS. MATCH ADJACENT PLASTIC LAMINATE COLOR. 15. PROVIDE GROMMETS; SHALL BE LOCATED IN THE FIELD WITH THE OWNER AND G.C. AT ALL WORK SURFACE LOCATIONS. GROMMET COLOR SHALL BE AS CLOSE AS POSSIBLE TO COUNTERTOP MATERIAL. INTERIOR DESIGNER TO APPROVE FINAL COLOR PRIOR TO INSTALLATION. 16. PROVIDE 2 1/2" MELAMINE WITH EDGEBANDING CLEAT AT ALL COUNTERTOPS NOT SUPPORTED BY BASE CABINETS. MELAMINE CLEAT TO MATCH ADJACENT WALL. 17. ALL UPPER CASEWORK WITH DOORS SHALL HAVE SCREWS WITH A BEAUTY RING OR FINISH WASHER. ALL EXPOSED UPPER CASEWORK TO HAVE RECESSED SCREW HEADS AND CAP OR COVER TO MATCH THE PLASTIC LAMINATE. 18. PROVIDE CAULKING AS INDICATED BELOW: a. TRANSLUCENT SILICONE ADHESIVE WHERE BACKSPASH AND COUNTER MEET AND AT COUNTER JOINTS. b. AT WALL / CASEWORK TRANSITION, PROVIDE WHITE, PAINTABLE CAULKING. 19. INTERIORS OF CABINETS SHALL BE WHITE MELAMINE, U.N.O 20. CONCEALED BLACK METAL BRACE SUPPORT TO OCCUR PER MANUFACTURER'S RECOMMENDATIONS, U.N.O. 21. WOOD GRAIN SHALL RUN VERTICALLY ON CABINETS IN ACCORDANCE WITH CUSTOM GRADE AWS, LATEST EDITION, U.N.O. 22. APPLY PLASTIC LAMINATE TO ALL EXPOSED SURFACES - NO EXPOSED PARTICLE BOARD WILL BE ACCEPTED. REFERENCE FINISH MATERIAL LEGEND FOR LAMINATE COLORS. PROVIDE SAMPLES FOR OWNER/DESIGNER APPROVAL. 23. CASEWORK SHALL BE MANUFACTURED AND STORED IN COMPLIANCE WITH THE LATEST EDITION OF THE ARCHITECTURAL WOODWORK INSTITUTE QUALITY STANDARD. ALL CABINETS SHALL BE OF STANDARD FULL OVERLAY CONSTRUCTION, CUSTOM GRADE. PROVIDE PLASTIC LAMINATE CABINETS AS SHOWN ON INTERIOR ELEVATIONS.	
LVT-1	SHAW; LUXURY VINYL TILE (LVT) - TERRAIN II - 6" X 48" - SUMAC - INSTALLATION: RANDOM STAGGER				
TILE-1	DAL TILE; PORCELAIN TILE - FABRIC ART MODERN TEXTILE - 24" X 24" - TAUPE INSTALLATION PER FINISH PLAN - GROUT: MAPEI SAHARA BEIGE 11				
BASE AND WALL SELECTIONS & ABBREVIATIONS					
RB-1	TARKETT; RUBBER WALL BASE - BASEWORKS - 4" HIGH - PEPPERCORN - TSB TB1 4 X 4 1/8 TOE BASEWORKS 4" TB1 - PART NUMBER S102234-TB1-WB0004-TS84				
TILE-2	DAL TILE; PORCELAIN TILE - CALGARY - 12" X 24" - LEGACY CG40 - INSTALLATION PER INTERIOR ELEVATIONS - GROUT: MAPEI SAHARA BEIGE 11				
EP	SCHLUTER; EDGE PROTECTION - JOLLY - SATIN ALUMINUM				
CB	SCHLUTER; COVE BASE - DILEX - SATIN ALUMINUM				
PAINT AND STAIN SELECTIONS & ABBREVIATIONS					
PT-1	SHERWIN WILLIAMS; OVERALL PAINT - GOSSAMER VEIL SW9165				
PT-2	SHERWIN WILLIAMS; DRYFALL CEILING PAINT - STAMPED CONCRETE SW7655				
PT-3	SHERWIN WILLIAMS; ACCENT PAINT - SLATE BLUE SW 7624				
PT-4	SHERWIN WILLIAMS; ACCENT PAINT - JASPER STONE SW9133				
PT-5	SHERWIN WILLIAMS; ACCENT PAINT - ANONYMOUS SW7046				
PT-6	SHERWIN WILLIAMS; METAL AND RAIL PAINT - IRON ORE SW7069				
PT-7	SHERWIN WILLIAMS; CEILING PAINT - PURE WHITE SW7005				
CASEWORK AND MISCELLANEOUS SELECTIONS & ABBREVIATIONS					
PL-1	FORMICA; PLASTIC LAMINATE - SMOKEY BROWN PEAR 5488-26				
PL-2	FORMICA; PLASTIC LAMINATE - COTTON CLOTH 8681-58				
TRANSITION STRIP SELECTIONS & ABBREVIATIONS					
TS	REFER TO DETAILS ON THIS SHEET FOR ALL TRANSITIONS				
CEILING SELECTIONS					
REFER TO REFLECTED CEILING PLAN SHEET(S) FOR NOTES ON FINISHES					

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2 FINISH PLAN - EDUCATION WING - BASEMENT
SCALE: 1/8" = 1'-0"



1 FINISH PLAN - PARTIAL FLOOR PLAN - NORTH BASEMENT
SCALE: 1/8" = 1'-0"



FINISH PLAN GENERAL NOTES

1. EXISTING CABINETRY LOCATIONS ARE APPROXIMATE.
2. NEW PAINT ON ALL WALLS IN SCOPE.
3. ACCENT PAINTS ARE LOCATED ON FINISHPLANS.

FINISH PLAN LEGEND

- NO WORK THIS AREA (NOT IN SCOPE)

FINISH PLAN KEYNOTES

- 1 PAINT ABANDONED RADIATORS PT-1

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524

VFLA
ARCHITECTURE + INTERIORS

419 CANYON AVE STE 200, FORT COLLINS, CO 80521
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

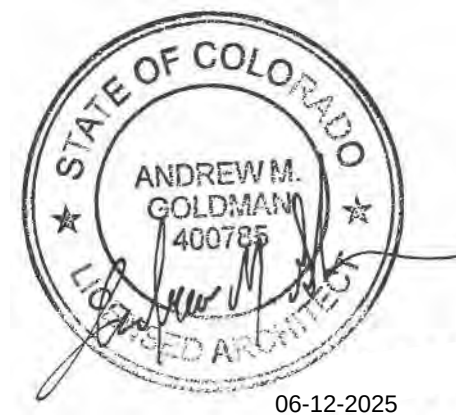
ELECTRICAL ENGINEER:
APS, INC.

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SHEET ISSUANCES

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DESIGN DEVELOPMENT	04-01-2025
CD CHECK SET	06-04-2025
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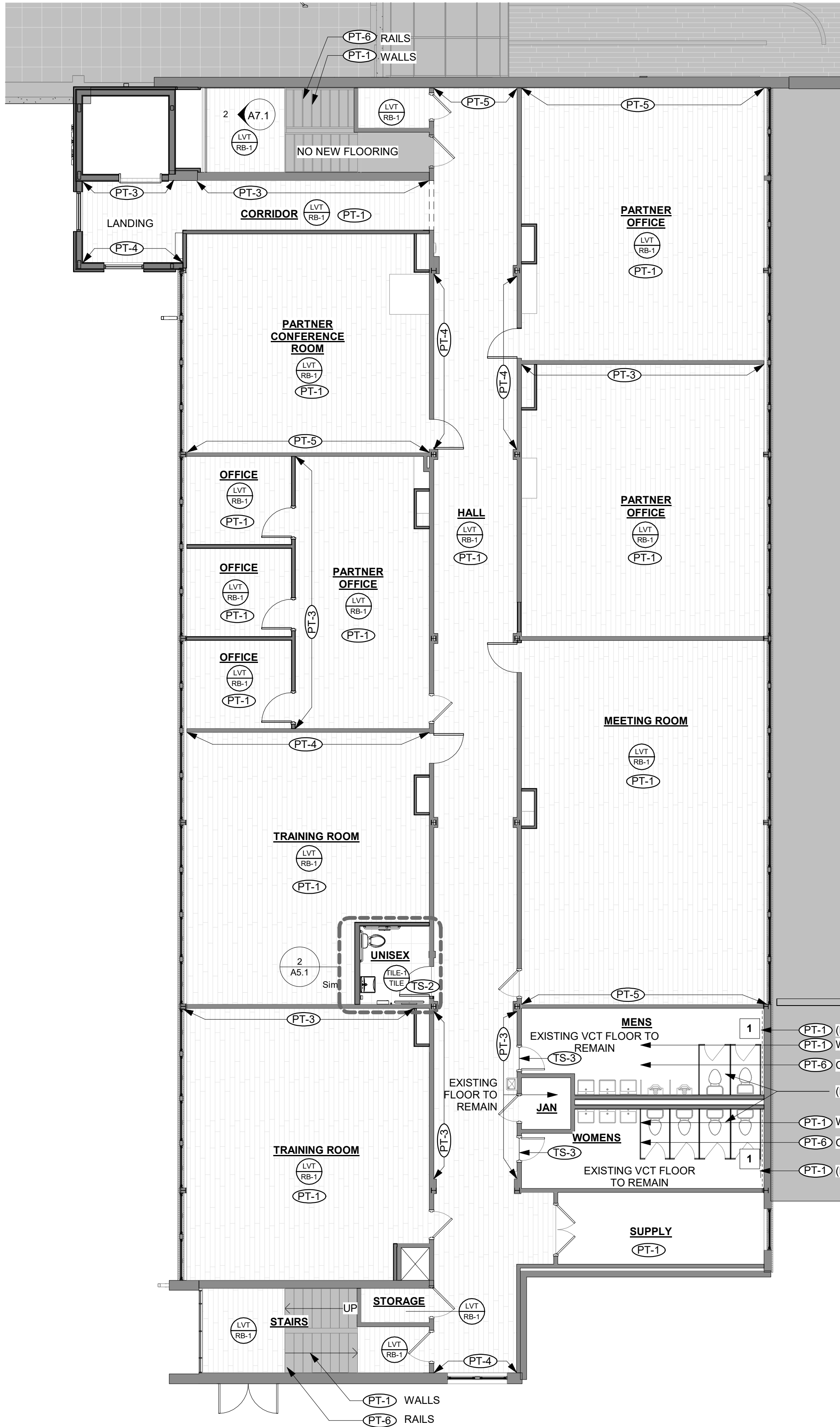
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NORTH BASEMENT & BASEMENT FINISH PLANS

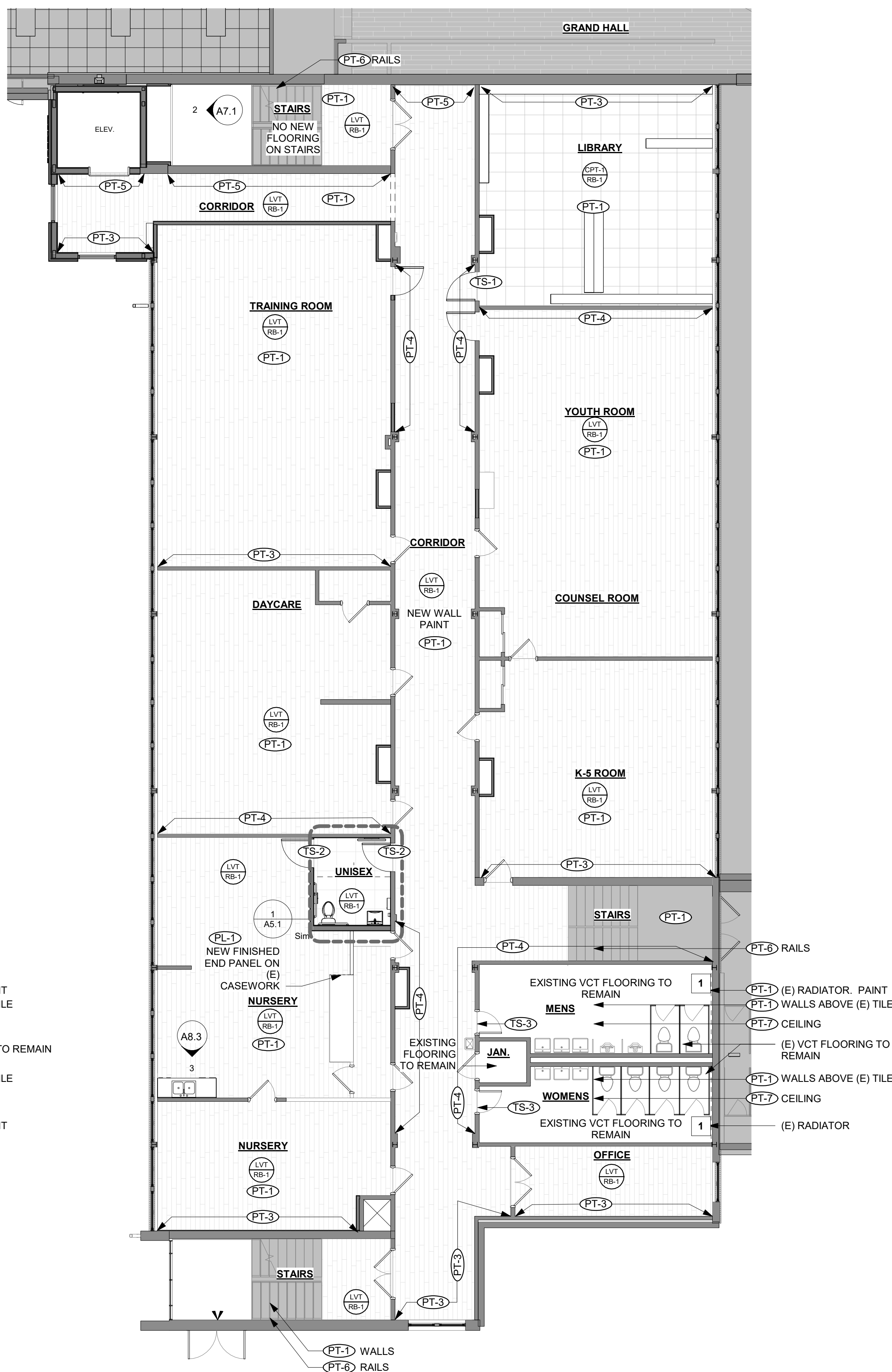
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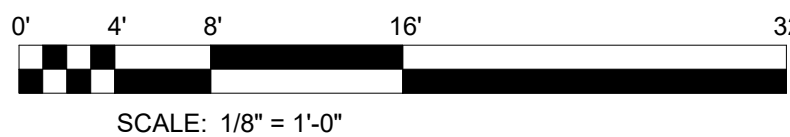
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2 FINISH PLAN - EDUCATION WING - SECOND FLOOR
SCALE: 1/8" = 1'-0"



1 FINISH PLAN - EDUCATION WING - FIRST FLOOR
SCALE: 1/8" = 1'-0"



FINISH PLAN GENERAL NOTES

1. EXISTING CABINETRY LOCATIONS ARE APPROXIMATE.
2. NEW PAINT ON ALL WALLS IN SCOPE.
3. ACCENT PAINTS ARE LOCATED ON FINISHPLANS.

FINISH PLAN LEGEND

- NO WORK THIS AREA (NOT IN SCOPE)

FINISH PLAN KEYNOTES

- 1 PAINT ABANDONED RADIATORS PT-1

PROJECT NUMBER: 2022-104

FIRST
PRESBYTERIAN
CHURCH -
EDUCATION WING
RENOVATION

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FORT COLLINS, CO. 80524

VFLA
ARCHITECTURE + INTERIORS

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LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

ELECTRICAL ENGINEER:
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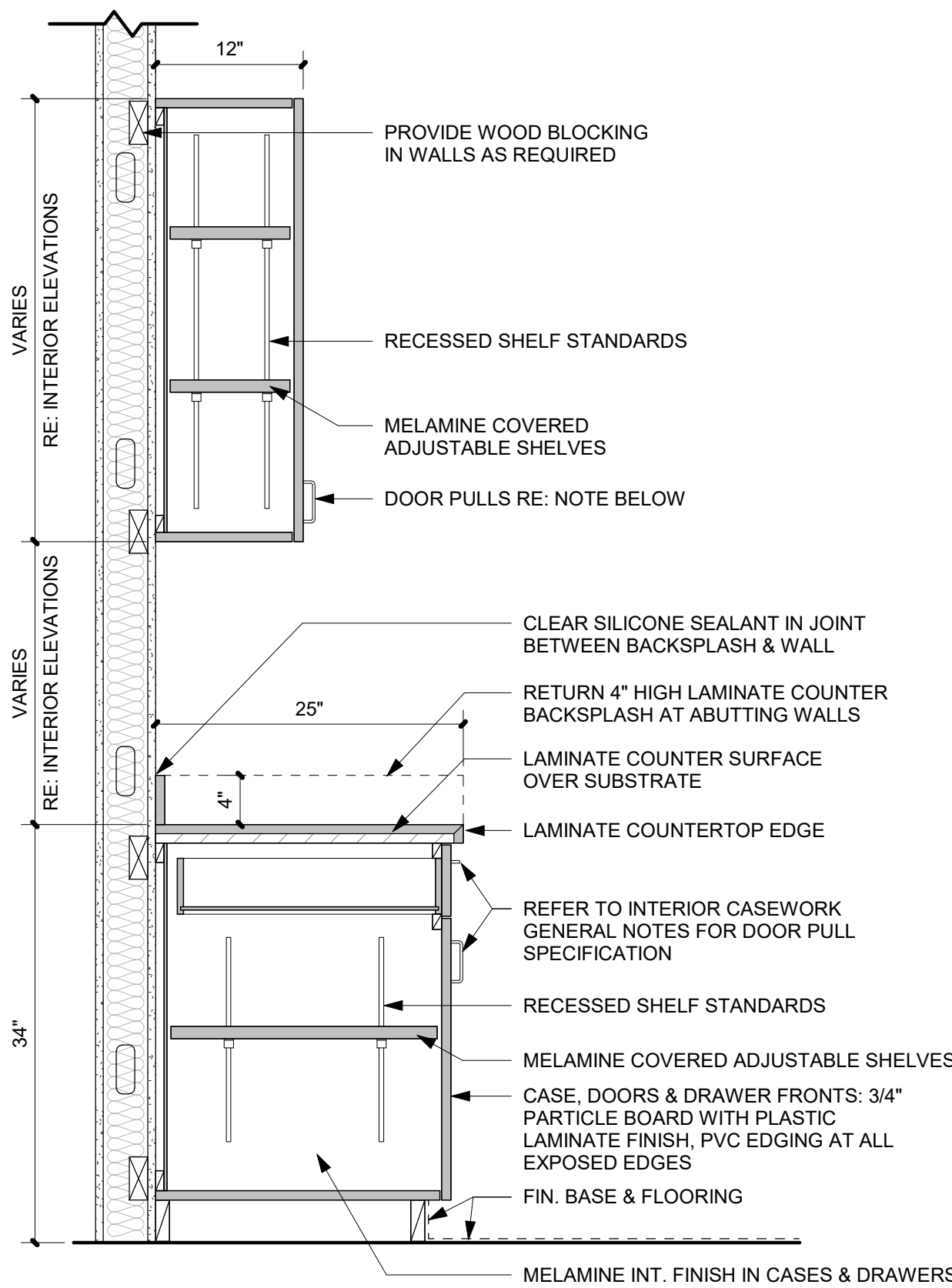
FIRST AND SECOND
FLOOR FINISH PLANS

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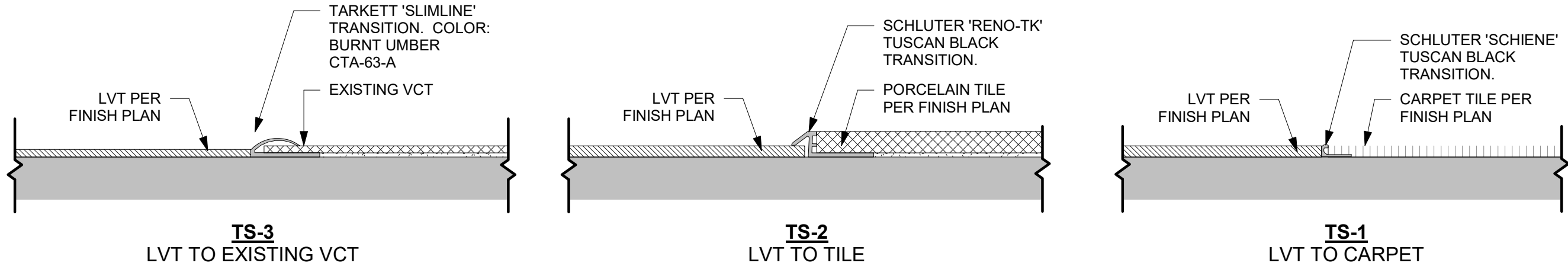
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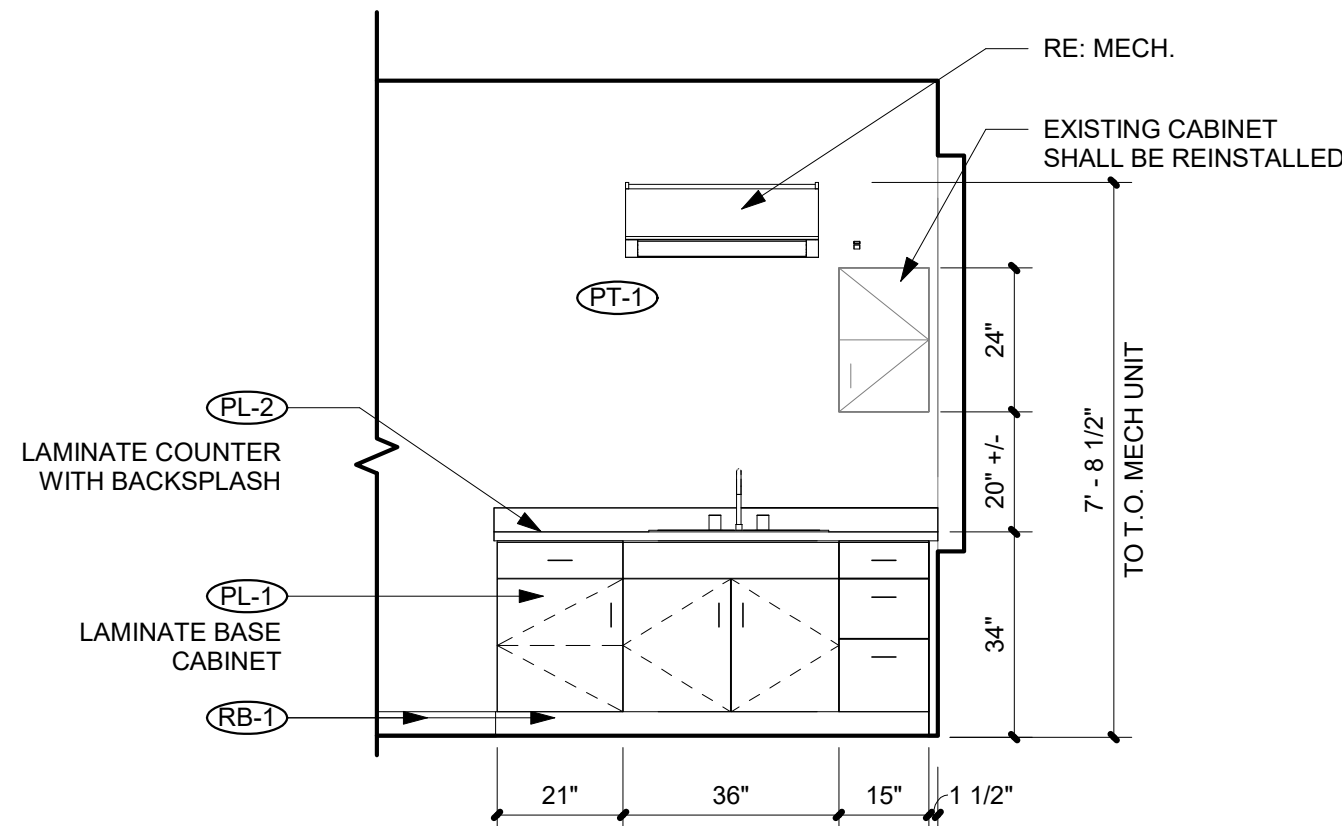
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2 TYPICAL BASE AND WALL CABINET SECTION
SCALE: 1" = 1'-0"



1 TRANSITION DETAILS
SCALE: 6" = 1'-0"



3 NURSERY CABINET ELEVATION
SCALE: 3/8" = 1'-0"

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

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RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
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INTERIOR DETAILS

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GP1	GENERAL PARAMETERS	STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THESE DRAWINGS INTO THEIR SHOP DRAWINGS AND WORK.
GP2	VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF ANY ITEMS.	
GP3	DRAWINGS SHALL BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL OPENINGS, ELECTRICAL COMPONENTS, FLOOR DEPRESSIONS, ETC. NOT SHOWN ON DRAWINGS. COORDINATE LOCATION, SIZE AND REINFORCEMENT OF ALL OPENINGS WITH RESPECTIVE TRADES BEFORE FABRICATION. REPORT ANY DISCREPANCIES AND/OR INTERFERENCE PROBLEMS TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.	
GP4	THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS, WHERE NO DETAILS ARE PROVIDED, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.	
GP5	THE BUILDING IS NOT STRUCTURALLY STABLE UNTIL ALL CONNECTIONS, FRAMING, SHEAR WALLS, X-BRACING, AND EXTERIOR WALLS ARE COMPLETE AND HAVE ACHIEVED FINAL DESIGN STRENGTH. CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING STRUCTURAL STABILITY OVERALL AND TO ALL PORTIONS OF THE BUILDING DURING DEMOLITION, ERECTION AND CONSTRUCTION. TEMPORARY GRAVITY AND LATERAL FORCE BRACING SYSTEMS THAT MAY BE REQUIRED WILL BE DESIGNED BY, AND AT THE EXPENSE OF, THE CONTRACTOR. STRUCTURAL DRAWINGS DO NOT NECESSARILY INDICATE ANY OR ALL REQUIRED TEMPORARY SUPPORT SYSTEMS. TEMPORARY BRACING SYSTEMS ARE NOT TO BE REMOVED UNTIL STRUCTURAL WORK IS COMPLETE OR CONTRACTOR DEEMS THE AREA UNDER CONSIDERATION TO BE STABLE.	
GP6	CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.	
GP7	RETAINING WALLS AND BASEMENT WALLS WHICH TIE TO UPPER SLABS SHALL NOT BE BACKFILLED UNTIL THE UPPER SLABS REACH FULL DESIGN STRENGTH, UNLESS ADEQUATE BRACING IS PROVIDED AT THE TOP OF THE WALL.	
GP8	AS USED IN GENERAL NOTES AND THROUGHOUT STRUCTURAL DRAWINGS, THE TERM "CONTRACTOR" IS DEFINED TO INCLUDE ANY OR ALL OF THE FOLLOWING: GENERAL CONTRACTOR AND THEIR SUBCONTRACTORS, CONSTRUCTION MANAGER AND THEIR SUBCONTRACTORS, FABRICATORS, INSTALLERS, DELEGATED DESIGNERS/ENGINEERS AND ERECTORS.	
DP	DESIGN PARAMETERS	
DP1	THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE ICC INTERNATIONAL BUILDING CODE, 2021 EDITION.	
DP2	UNIFORM LIVE LOADS: TYPICAL ROOF (GOVERNED BY SNOW) DRIFT LOAD AS SHOWN ON PLAN	30 PSF+DRIFT
DP3	CONCENTRATED LIVE LOADS: TYPICAL STAIRS (OVER 2 IN. X 2 IN.) TYPICAL HANDRAIL	300 LB 200 LB
DP4	SNOW DESIGN PARAMETERS: GROUND SNOW LOAD (P _g) FLAT ROOF SNOW LOAD (P _f) SNOW EXPOSURE FACTOR (C _e) SNOW LOAD IMPORTANCE FACTOR (I _s) SNOW LOAD THERMAL FACTOR (C _t) SNOW SLOPE FACTOR (C _s)	35 PSF 30 PSF 1.0 1.0 1.1 1.1
DP5	EARTHQUAKE DESIGN PARAMETERS: SEISMIC RISK CATEGORY SEISMIC IMPORTANCE FACTOR (I _s) SEISMIC SITE CLASS SHORT-PERIOD SITE COEFFICIENT (F _a) LONG-PERIOD SITE COEFFICIENT (F _v) SEISMIC DESIGN CATEGORY SEISMIC-FORCE-RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES SEISMIC BASE SHEAR (V) _{NS} SEISMIC BASE SHEAR (V) _{E-W} SEISMIC RESPONSE COEFFICIENT (C _s) _{NS} SEISMIC RESPONSE COEFFICIENT (C _s) _{E-W} RESPONSE MODIFICATION FACTOR (R) _{NS} RESPONSE MODIFICATION FACTOR (R) _{E-W} REDUNDANCY FACTOR (ρ) _{NS} REDUNDANCY FACTOR (ρ) _{E-W} SEISMIC ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE ANALYSIS	II 1.0 0.056 0.099 2.4 0.099 B 6 k (ELEVATOR ADDITION ONLY) 6 k (ELEVATOR ADDITION ONLY) 0.09 0.08 3.5 3.5 1.0 1.0 D
DP6	WIND DESIGN PARAMETERS: BASIC WIND SPEED (V) (3 SECOND GUST) WIND RISK CATEGORY WIND EXPOSURE CATEGORY INTERNAL PRESSURE COEFFICIENT NET DESIGN PRESSURE @ ROOF NET WIND UPLIFT @ ROOF	130 MPH II B -18 21 PSF (SERVICE) 10 PSF (SERVICE)
DP7	ROOF RAIN LOAD PARAMETERS: RAIN INTENSITY (I)	3.5 IN./HR.
DP8	ALLOWABLE WALL DEFLECTIONS: EXTERIOR (CLADDING DESIGN) (BRICK VENEER DESIGN) INTERIOR	L/360 L/600 > 0.3" L/360
DP9	ALLOWABLE FRAMING DEFLECTIONS: ROOF LIVE LOAD ROOF TOTAL LOAD FLOOR LIVE LOAD FLOOR TOTAL LOAD	L/360 L/240 L/360 L/240
DP10	ASSUMED FUTURE CONSTRUCTION: VERTICAL HORIZONTAL	NONE NONE
FP	FOUNDATION PARAMETERS	
FP1	SIZE AND BOTTOM ELEVATIONS OF FOOTINGS HAVE BEEN ESTABLISHED BASED ON THE GEOTECHNICAL REPORT FILE NO. 1242071 PREPARED BY EARTH ENGINEERING CONSULTANTS AND DATED 01/21/2025. AS EXCAVATION PROGRESSES, UNANTICIPATED SOIL CONDITIONS MAY REQUIRE CHANGES. CONTACT STRUCTURAL ENGINEER OF RECORD FOR EVALUATION OF THESE CHANGES.	
FP2	ALLOWABLE SOIL BEARING PRESSURE CONTINUOUS FOOTINGS SQUARE FOOTINGS	2000 PSF 2000 PSF
FP3	MINIMUM FOOTING DEPTH FOR FROST PROTECTION (BELOW FINISHED GRADE)	30 IN.
FP4	DESIGN EARTH PRESSURES: ACTIVE PASSIVE AT REST	35 PCF 260 PCF 60 PCF
FP5	GEOTECHNICAL ENGINEER IS SOLE JUDGE OF THE SUITABILITY OF UNDERLYING MATERIAL TO SUPPORT FOUNDATIONS. BEARING MATERIAL SHALL BE APPROVED BY GEOTECHNICAL ENGINEER BEFORE FOUNDATION INSTALLATION. DO NOT PROCEED WITHOUT APPROVAL.	
FP6	PRIOR TO COMMENCING EARTHWORK, CONTRACTOR SHALL REVIEW AND BE FAMILIAR WITH ALL ASPECTS OF THE GEOTECHNICAL REPORT. CONTACT GEOTECHNICAL ENGINEER IF QUESTIONS OR DISCREPANCIES.	
SP	SPECIAL INSPECTION	
SP1	SPECIAL INSPECTION PROGRAM SHALL CONFORM TO CHAPTER 17 OF THE IBC.	
SP2	THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PERFORM THE REQUIRED TESTS AND SPECIAL INSPECTIONS WITH QUALIFICATIONS DESCRIBED PER IBC CHAPTER 17 AND THE PROJECT SPECIFICATIONS.	
SP3	SPECIAL INSPECTION REPORTS SHALL BE FURNISHED TO BUILDING OFFICIAL, OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND CONTRACTOR.	
SP4	SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THAT THE STRUCTURAL WORK WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.	
SP5	SPECIAL INSPECTION PROGRAM:	
VERIFICATION AND INSPECTION		
STRUCTURAL STEEL - CONFORM TO AISC 360 REQUIREMENTS		
1. INSPECTION TASKS PRIOR TO WELDING:		
A. WELDER QUALIFICATION & CONTINUITY RECORDS		OBSERVE
B. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE		PERFORM
C. MANUFACTURER'S CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		PERFORM
D. MATERIAL IDENTIFICATION (TYPE/GRADE)		OBSERVE
E. WELDER IDENTIFICATION SYSTEM		OBSERVE
F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): • JOINT PREPARATION		OBSERVE
G. FIT-UP OF CJP GROOVE WELDS OF HSS, T, Y, & K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY): • JOINT PREPARATION • DIMS. (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY & LOCATION) • BURNED TYPE FIT (IF APPLICABLE)		OBSERVE
H. CONFIGURATION & FINISH OF ACCESS HOLES		OBSERVE
I. FIT-UP OF FILLET WELDS: • DIMS. (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY & LOCATION)		OBSERVE
2. INSPECTION TASKS DURING WELDING:		
A. CONTROL & HANDLING OF WELDING CONSUMABLES: • EXPOSURE CONTROL • PACKAGING		OBSERVE
B. NO WELDING OVER CRACKED TACK WELDS		OBSERVE
C. ENVIRONMENTAL CONDITIONS: • WIND SPEED WITHIN LIMITS • PRECIPITATION & TEMP.		OBSERVE
D. WPS FOLLOWED: • SETTINGS ON WELDING EQPT. • TRAVEL SPEED • SELECTED WELDING MATERIALS • PREHEAT APPLIED • SHIELDING GAS TYPE/FLOW RATE • INTERPASS TEMP. MAINTAINED (MIN / MAX)		OBSERVE
E. WELDING TECHNIQUES: • INTERPASS & FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS		OBSERVE
F. PLACEMENT & INSTALLATION OF STEEL HEADED STUD ANCHORS		PERFORM
3. INSPECTION TASKS AFTER WELDING:		
A. WELDS CLEANED		OBSERVE
B. SIZE, LENGTH, & LOCATION OF WELDS		PERFORM
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA: • CRACK PROHIBITION • WELD / BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES		PERFORM
D. ARC STRIKES		PERFORM
E. K-AREA		PERFORM
F. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES & BUILT-UP HEAVY SHAPES		PERFORM
G. BACKING & WELD TABS REMOVED (IF REQ'D.)		PERFORM
H. REPAIR ACTIVITIES		PERFORM
I. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		PERFORM
J. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF EOR		PERFORM
K. N.D.T. OF CJP WELDS & JOINTS SUBJECT TO FATIGUE PER AISC 360		PERFORM
4. INSPECTION TASKS PRIOR TO BOLTING:		
A. MFR. CERTS. AVAILABLE FOR FASTENER MATERIALS		PERFORM
B. FASTENERS MARKED IN ACCORDANCE w/ ASTM REQ'TS		OBSERVE
C. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH, EXCLUDED THREADS)		OBSERVE
D. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		OBSERVE
E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION & HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQ'TS		OBSERVE
F. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED & DOCUMENTED FOR FASTENER ASSEMBLES & METHODS USED		OBSERVE
G. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS & OTHER FASTENER COMPONENTS		OBSERVE
5. INSPECTION TASKS DURING BOLTING:		
A. FASTENER ASSEMBLES PLACED IN ALL HOLES & WASHERS & NUTS ARE POSITIONED AS REQ'D.		OBSERVE
B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		OBSERVE
C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		OBSERVE
D. FASTENERS ARE PRETENSIONED IN ACCORDANCE w/ THE RSCS SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		OBSERVE
6. INSPECTION TASKS AFTER BOLTING:		
A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNS.		PERFORM
STEEL DECK - CONFORM TO SD1 REQUIREMENTS		
1. INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT:		
A. VERIFY COMPLIANCE OF MATERIALS WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, & BASE METAL THICKNESS		PERFORM
B. DOCUMENT ACCEPTANCE OR REJECTION OF DECK & DECK ACCESSORIES		PERFORM
2. INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT:		
A. VERIFY COMPLIANCE OF DECK & DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS		PERFORM
B. VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS		PERFORM
C. DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK & DECK ACCESSORIES		PERFORM
3. INSPECTION OR EXECUTION TASKS PRIOR TO WELDING:		
A. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE		OBSERVE
B. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		OBSERVE
C. MATERIAL IDENTIFICATION (TYPE/GRADE)		OBSERVE
D. CHECK WELDING EQUIPMENT		OBSERVE
4. INSPECTION OR EXECUTION TASKS DURING WELDING:		
A. USE OF QUALIFIED WELDERS		OBSERVE
B. CONTROL AND HANDLING OF WELDING CONSUMABLES		OBSERVE
C. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)		OBSERVE
D. WPS FOLLOWED		OBSERVE
5. INSPECTION OR EXECUTION TASKS AFTER WELDING:		
A. VERIFY SIZE & LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, & PERIMETER WELDS		PERFORM
B. WELDS MEET VISUAL ACCEPTANCE CRITERIA		PERFORM
C. VERIFY REPAIR ACTIVITIES		PERFORM
D. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS		PERFORM
6. INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING:		
A. MFR. INSTALLATION INSTRUCTIONS AVAILABLE FOR MECH. FASTENERS		OBSERVE
B. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION		OBSERVE
C. PROPER STORAGE FOR MECHANICAL FASTENERS		OBSERVE
7. INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING:		
A. FASTENERS ARE POSITIONED AS REQ'D.		OBSERVE
B. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MFR'S INSTRUCTIONS		OBSERVE
8. INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING:		
A. CHECK SPACING, TYPE, & INSTALLATION OF SUPPORT, SIDELAP, & PERIMETER FASTENERS		PERFORM
B. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MFR'S INSTRUCTIONS		PERFORM
C. VERIFY REPAIR ACTIVITIES		PERFORM
D. DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS		PERFORM

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SF1 STEEL FRAMING NOTES
STEEL FRAMING WORK SHALL COMPLY WITH CHAPTER 22 OF THE IBC.

SF2 STEEL FRAMING MATERIALS:
SF2.1 W-SECTIONS, CHANNELS
FY=50,000 PSI
SF2.2 TUBULAR STEEL
ASTM A500 GR C
FY=50,000 PSI
SF2.3 M-SECTIONS, S-SECTIONS, HP-SECTIONS
ASTM A572
FY=50,000 PSI
SF2.4 ANGLES, PLATES, BARS
ASTM A572
FY=50,000 PSI
SF2.5 PIPES
ASTM A53 GR B
FY=35,000 PSI
SF2.6 HEADED ANCHOR SHEAR STUDS
ASTM A108, GR C-1010 THRU C-1020
MIN. TENSILE STRENGTH FY=65,000 PSI
MIN. YIELD STRENGTH FY=65,000 PSI
SF2.7 ANCHOR RODS
ASTM F1554
FY=36,000 PSI UNO
SF2.8 STEEL JOIST
KIJ-K-LH SERIES
SF2.9 WELDING ELECTRODES
E70XX

SF3 STEEL ERECTION SHALL COMPLY WITH ALL OSHA, STATE, LOCAL, AND INDUSTRY STANDARD REGULATIONS. IN ADDITION, AT THE END OF THE WORK DAY, ALL COLUMNS MUST BE FRAMED WITH BEAMS AND/OR GIRDERS IN TWO DIRECTIONS, OR ADEQUATELY GUYED OR BRACED IN BOTH DIRECTIONS. TEMPORARY GUYING/BRACING IS THE RESPONSIBILITY OF THE ERECTOR (DESIGN AND INSTALLATION).

SF4 DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE AISC STEEL CONSTRUCTION MANUAL, AISC 360-16 INCLUDING COMMENTARY, AND THE AISC 303-16.

SF5 ALL BOLTS FOR STEEL CONNECTIONS TO BE INSTALLED PER AISC 360 AND RCSC.
SF5.1 ALL BOLTS TO BE ASTM A325N U.N.O.
SF5.2 BOLTS USED IN STEEL JOIST CONSTRUCTION MAY BE ASTM A307
SF5.3 ALL BOLTS SHALL BE INSTALLED SNUG-TIGHT U.N.O.
SF5.4 ALL BOLTS IN BRACED FRAME CONNECTIONS TO BE PRETENSIONED U.N.O.

SF6 WELDING SHALL CONFORM TO THE AWS CODES FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH A WELDED PROCEDURE SPECIFICATION (WPS) AS REQUIRED IN AWS D1.1 AND APPROVED BY THE STRUCTURAL ENGINEER. THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL MANUFACTURER.

SF7 WELDS SHALL BE MADE USING E70XX ELECTRODES AND SHALL BE 3/16" MINIMUM. U.N.O. ALL WELDING FOR STRUCTURAL STEEL CONNECTIONS TO BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS D1.1.

SF8 FOR COMPLETE JOINT PENETRATION WELDS, WELDS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CWN TOUGHNESS OF 20 FT-LLBS AT 40°F.

SF9 WELDING TO JOIST WEB MEMBERS IS PROHIBITED. WELDING TO JOIST BOTTOM CHORDS IS PROHIBITED WITHOUT THE APPROVAL OF THE ENGINEER. WITH THE SOLE EXCEPTION OF JOIST BRIDGING, WALL PANEL BRACING, GIRDER BRACING, AND ALL OTHER WELDED ATTACHMENTS SHALL BE MADE TO JOIST TOP CHORDS. ATTACHMENTS MADE TO JOIST TOP CHORD SHALL BE MADE ONLY AT JOIST PANEL POINTS.

SF10 ALL STEEL BEAMS, COLUMNS AND BRACING SHALL RECEIVE A SINGLE COAT OF SHOP APPLIED PRIMER, WITH THE FOLLOWING EXCEPTIONS:
SF10.1 TOP FLANGE OF BEAMS RECEIVING HEADED STUDS SHALL NOT BE PRIMED
SF10.2 GALVANIZED BEAMS SHALL NOT BE PRIMED
SF10.3 STEEL THAT IS TO RECEIVE SPRAY-APPLIED FIREPROOFING (SEE ARCH. FOR LOCATIONS) SHALL NOT BE PRIMED OR SHALL BE PRIMED IN ACCORDANCE W/ ASTM E708 AND UL 203
SF10.4 STEEL THAT IS TO RECEIVE TNE MEC AEROLON SHALL NOT BE PRIMED.

SF11 HOT-DIP GALVANIZE STEEL FOR THE FOLLOWING CONDITIONS:
SF11.1 STEEL ELEMENTS PERMANENTLY EXPOSED TO WEATHER.
SF11.2 STEEL ELEMENTS LOCATED IN UNCONDITIONED SPACES.
SF11.3 STEEL ELEMENTS LOCATED OUTSIDE THE BUILDING THERMAL ENVELOPE.
SF11.4 STEEL ELEMENTS LOCATED IN AREAS WITH HIGH HUMIDITY.
SF11.5 ALL LINTEL ASSEMBLIES LOCATED IN EXTERIOR WALLS.
SF11.6 WHERE PIECES REQUIRING GALVANIZATION ARE PART OF A LARGER ASSEMBLY, THE HOT-DIPPING PROCESS IS TO OCCUR AFTER COMPLETE FABRICATION OF THE ASSEMBLY.
SF11.7 STEEL THAT IS TO RECEIVE TNE MEC AEROLON SHALL NOT BE GALVANIZED.

SF12 CONNECTIONS:
SF12.1 WHERE CONNECTIONS ARE NOT SHOWN, THE CONNECTIONS SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH THE REQUIREMENTS OF AISC SPECIFICATIONS FOR THE SHEAR CAPACITIES SHOWN BELOW:

MINIMUM SHEAR CAPACITIES (SERVICE LOADS)			
SHAPE	SHEAR CAPACITY	SHAPE	SHEAR CAPACITY
W8	16 KIPS	W21	59 KIPS
W10	16 KIPS	W24	72 KIPS
W12	28 KIPS	W27	84 KIPS
W14	28 KIPS	W30	94 KIPS
W16	41 KIPS	W33	103 KIPS
W18	53 KIPS	W36	115 KIPS

SF12.2 ANY CONNECTION REACTIONS EXCEEDING THE ABOVE MINIMUM SHEAR CAPACITIES ARE NOTED, IN KIPS, AT EITHER END OF THE MEMBER ON THE STRUCTURAL FRAMING PLANS.
SF12.3 NO CONNECTION SHALL USE LESS THAN 2 ROWS OF BOLTS.
SF12.4 ALL CONNECTIONS SHALL SATISFY THE REQUIREMENTS OF AISC AND OSHA.
SF12.5 MOMENT CONNECTIONS ARE INDICATED ON DRAWINGS BY A DARKENED TRIANGLE ON THE END OF THE MEMBER TO BE MOMENT CONNECTED. IF THE BEAM END MOMENT IS NOT SHOWN, DEVELOP PLASTIC MOMENT CAPACITY OF MEMBER ABOUT MAJOR AXIS. WHERE POSSIBLE, USE SHEAR TAB WEB CONNECTION WITH MOMENT CONNECTION.
SF12.6 U.N.O., POCKET BEAMS 8" MIN. INTO MASONRY AND BEAR ON 3/4" GROUT, MIN. ANCHOR WITH (2) 3/4"Ø x 1'-4" HEADED ANCHOR BOLTS. SLOT HOLES IN BEAM FLANGE 2" PARALLEL TO BEAM SPAN. GROUT POCKETS SOLD. AT STEEL CONNECTIONS WITH POST INSTALLED ANCHORS, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THE HOLE DIAMETERS COMPLY WITH THE MANUFACTURER'S RECOMMENDED DRILL BIT DIAMETER.

SF13 DUE TO VARYING BEAM DEFLECTIONS AND CAMBERS, CONTRACTOR SHALL MAKE PROVISIONS FOR ADDITIONAL CONCRETE AS REQUIRED TO ACHIEVE A FLAT FLOOR SURFACE.

SF14 WHERE OPENINGS FOR DUCTS, MECHANICAL EQUIPMENT, ETC., OCCUR IN FLOOR SLAB, PROVIDE BOX-OUTS ON TOP OF METAL DECKING PRIOR TO PLACING CONCRETE SLAB. AFTER INSTALLATION OF MECHANICAL DUCTS & ETC. (THRU BOX-OUTS), PLACE REMAINDER OF CONCRETE FLOOR.

SF15 LATERAL BRACING
SF15.1 LATERAL BRACING BETWEEN COLUMNS IS LOCATED AS NOTED ON PLAN. BOLT HOLES PROVIDED ARE FOR TEMPORARY BOLTING TO ACCOMMODATE PROPER ALIGNMENT OF BRACING.
SF15.2 PRIOR TO THE PLACEMENT OF CONCRETE ON ABOVE GRADE SUPPORTED DECKS, ALL MAIN LATERAL BRACING MUST BE FULLY WELDED AS DETAILED BELOW THE LEVEL THE CONCRETE IS BEING PLACED ON, AND ALL COLUMN BASE PLATES FOR COLUMNS SUPPORTING THIS CONCRETE MUST BE GROUTED.
SF15.3 PRIOR TO THE ERECTION OF EXTERIOR WALL PANELS, ALL MAIN LATERAL BRACING MUST BE FULLY WELDED AS DETAILED, AND IN ADDITION, UPPER LEVEL CONCRETE FLOORS AT THE LEVELS THE PANELS ARE BEING ATTACHED TO MUST BE PLACED AND CURED FOR A MINIMUM OF 3 DAYS PRIOR TO THE ERECTION OF SHEATHED EXTERIOR PANELS. SIMILARLY, AT THE ROOF LEVEL, ALL ROOF DECKING MUST BE FULLY WELDED AND SIDE-LAP FASTENERS INSTALLED AS INDICATED ON THE PLANS PRIOR TO ATTACHMENT OF WALL PANELS AT THE ROOF LEVEL.
SF15.4 LATERAL BRACING FOR THE BUILDING IS PROVIDED BY STEEL STRAP BRACING ATTACHED TO THE STEEL WALL PANELS. TEMPORARY BRACING AND GUYING ARE TO REMAIN IN PLACE UNTIL ALL THE STEEL STRAP BRACED WALL PANELS ARE SET AND SECURED PER THE DETAILS.

TYPICAL STRUCTURAL ABBREVIATIONS
(PERIODS w/ ABBREVIATIONS MAY BE OMITTED WITHOUT CHANGING MEANING).
& AND
A.T. ANGLE
A.B. ANCHOR BOLT
A.C.I. AMERICAN CONCRETE INSTITUTE
A.E.S.S. ARCHITECTURALLY EXPOSED
STRUCTURAL STEEL
A.I.S.C. AMERICAN INSTITUTE OF STEEL CONSTRUCTION
A.S.T.M. AMERICAN SOCIETY FOR TESTING AND MATERIALS
ADD. ADDENDUM
ADD'L. ADDITIONAL
ALT. ALTERNATE
ARCH. ARCHITECTURAL
B.P. BASE PLATE
B/ BOTTOM OF
BLDG. BUILDING
BRG. BEARING
C.I.P. CAST IN PLACE
C.J. CONSTRUCTION JOINT
C.M.U. CONCRETE MASONRY UNIT
C.P. COMPLETE PENETRATION
CL. CENTERLINE
CLG. CEILING
CLR. CLEAR
CONC. CONCRETE
CONN. CONNECTION
CONST. CONSTRUCTION
CONT. CONTINUOUS
CONTR. CONTRACTOR
D.B.A. DEFORMED BAR ANCHOR
D.L. DEAD LOAD
DET. DETAIL
DIA. or Ø DIAMETER
CL. DIAGONAL
DIM. DIMENSION
DN. DOWN
DWGS. DRAWINGS
E.F. EACH FACE
E.W. EXPANSION JOINT
E.J. EACH WAY
EA. EACH
EL. ELEVATION
ELEC. ELECTRICAL
EQ. EQUAL
EXT. EXTERIOR
F.S. FAR SIDE
FIN. FINISH
FM. FOUNDATION MISCELLANEOUS
FNDN. FOUNDATION
FT. FOOT/FEET
GA. GALVANIZED
GALV. GALVANIZED
GC. GENERAL CONTRACTOR
H.P. HIGH POINT
HORIZ. HORIZONTAL
HT. HEIGHT
I.B.C. INTERNATIONAL BUILDING CODE
IN. INCH/INCHES
INT. INTERIOR
K or k KIP
w/ WITH
w/o WITHOUT
W.F. WIDE FLANGE
W.P. WORKPOINT
W.W.F. WELDED WIRE FABRIC
P.C.I. PRECAST/PRESTRESSED CONCRETE INSTITUTE
P.P. PARTIAL PENETRATION
P.S.I. POUNDS PER SQUARE INCH
P.S.F. POUNDS PER SQUARE FOOT
P.C.F. POUNDS PER CUBIC FOOT
PL. PLATE
PLBG. PLUMBING
QTY. QUANTITY
R or RAD. RADIUS
REF. REFERENCE
REINF. REINFORCING
REQ'D. REQUIRED
REV. REVISION
R/R. RAKER RHODES ENGINEERING
S.D.I. STEEL DECK INSTITUTE
S.J.I. STEEL JOIST INSTITUTE
S.O.G. SLAB ON GRADE
SCHD. SCHEDULE
SIM. SIMILAR
SPA. SPACING/SPACES
SPEC'S. SPECIFICATIONS
STD. STANDARD
STRUC. STRUCTURAL
T/ TOP OF
TYP. TYPICAL
U.N.O. UNLESS NOTED OTHERWISE
VERT. VERTICAL
INCH/INCHES
V.I.F. VERIFY IN FIELD (FIELD VERIFY)
w/ WITH
w/o WITHOUT
W.F. WIDE FLANGE
W.P. WORKPOINT
W.W.F. WELDED WIRE FABRIC

CF COLD-FORMED STEEL STUDS
CF1 COLD-FORMED STEEL WORK SHALL CONFORM WITH CHAPTER 22 OF THE IBC.

CF2 COLD-FORMED STEEL STUDS SHALL BE C-SHAPED STUDS FORMED FROM STRUCTURAL QUALITY STEEL HAVING A MINIMUM YIELD STRENGTH OF 33 KSI FOR 18 AND 20 GA. AND 50 KSI FOR 12, 14, AND 16 GA. AND CONFORM TO THE REQUIREMENTS OF ASTM A568 AND A1008. STUDS SHALL BE OF THE SIZE, GA., AND SPACING SHOWN ON THE DRAWINGS.

CF3 ALL COLD-FORMED STUDS, TRACK, BRIDGING, AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A568, G-90 GALVANIZED FINISH.

CF4 HORIZONTAL DEFLECTION OF THE WALL RESULTING FROM LATERAL LOAD (WIND LOAD, ETC.) SHALL NOT EXCEED L/600.

CF5 VERTICAL DEFLECTION OF THE WALL RESULTING FROM THE WEIGHT OF THE WALL EXTERIOR FACING MATERIAL SHALL NOT EXCEED L/720 OR 1/4", WHICHEVER IS LESS.

CF6 LOAD BEARING STUDS SHALL HAVE HORIZONTAL STRAPPING ON BOTH FACES AT 4'-0" O.C. PROVIDE BRIDGING IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS ADEQUATE FOR DEVELOPMENT OF THE FULL MOMENT CAPACITY OF THE STUDS.

CF7 FOR LOAD BEARING STUDS, STUDS SHALL BE FULLY SEATED IN TRACK. TRACK SHALL BE OVERSIZED TO PROVIDE FULL STUD BEARING.

CF8 SCREWS SHALL BE ELCO DRIL-FLEX, HILTI KWIK-FLEX, OR AN APPROVED EQUIVALENT.

CF9 COLD-FORMED STEEL WELDING SHALL CONFORM WITH AWS D1.3.

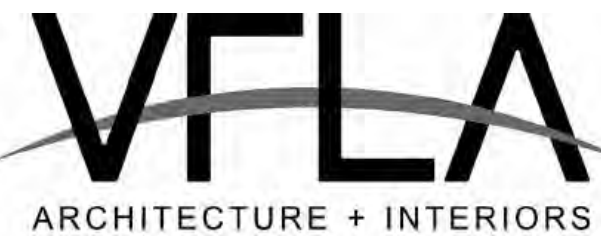
CF10 COLD-FORMED SIZES SHOWN ARE FOR PRICING PURPOSES ONLY. FINAL DESIGN AND CONNECTIONS BY COLD-FORMED DESIGNER.

CF11 U.N.O., PROVIDE (1) 0.157" DIA. PAF @ 16" O.C. (1 1/4" EMBED) @ BOTTOM WALL TRACKS FOR WALLS ≤ 6". PROVIDE (2) 0.157" DIA. PAFS @ 16" O.C. (1 1/4" EMBED) @ BOTTOM WALL TRACKS FOR WALLS > 6".

PROJECT NUMBER: RRE22581

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524



419 CANYON AVE STE 200, FORT COLLINS, CO 80521
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MECHANICAL

ELECTRICAL ENGINEER:
APS, INC.

ISSUED FOR PERMIT

SHEET ISSUANCES	
DESCRIPTION	DATE
DESIGN DEVELOPMENT	04-01-2025
ISSUED FOR PERMIT	06-11-2025

SEAL:



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STRUCTURAL NOTES

DRAWING NUMBER:

S0.2

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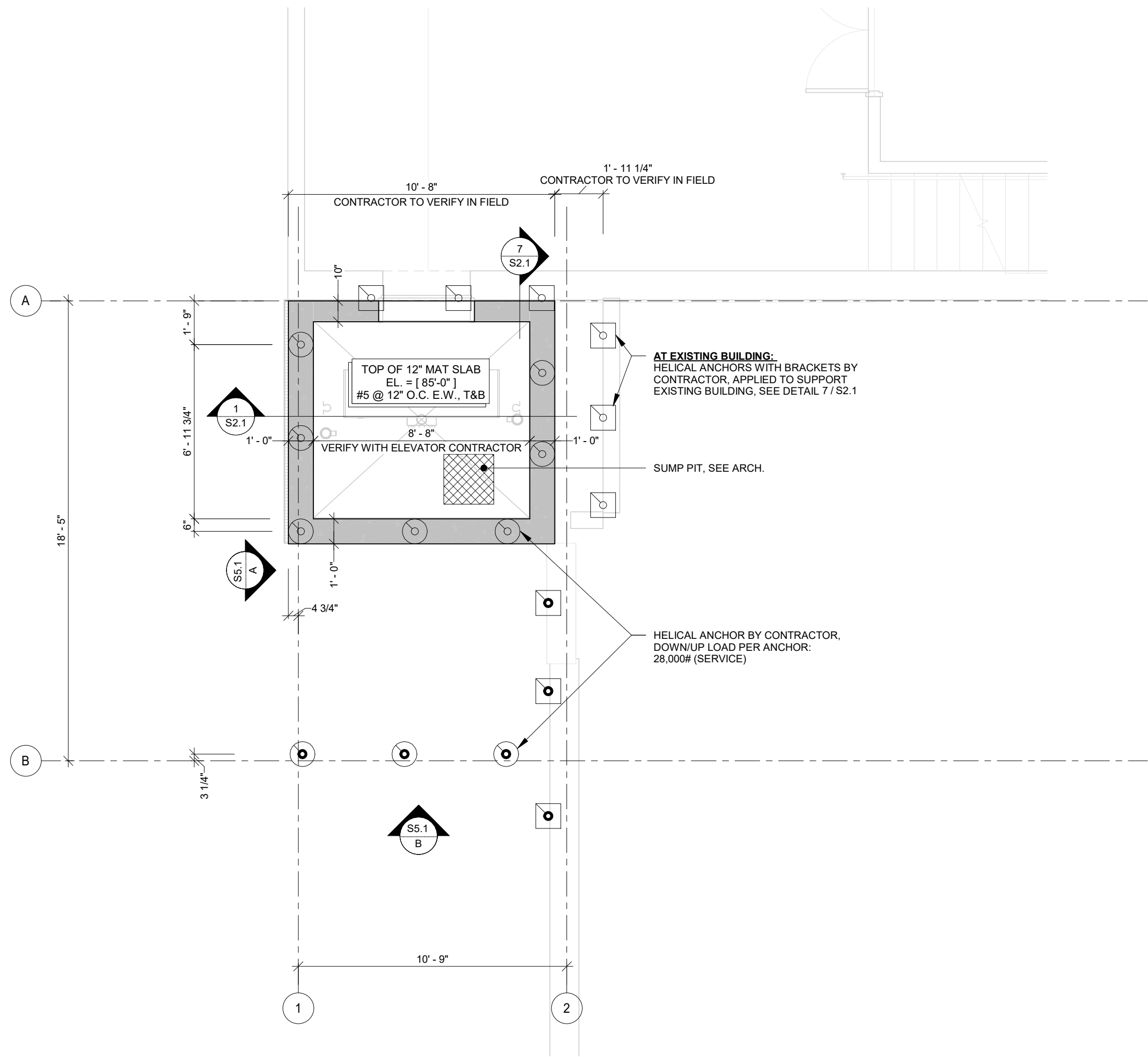


A BASEMENT FOUNDATION PLAN

1/4" = 1'-0"

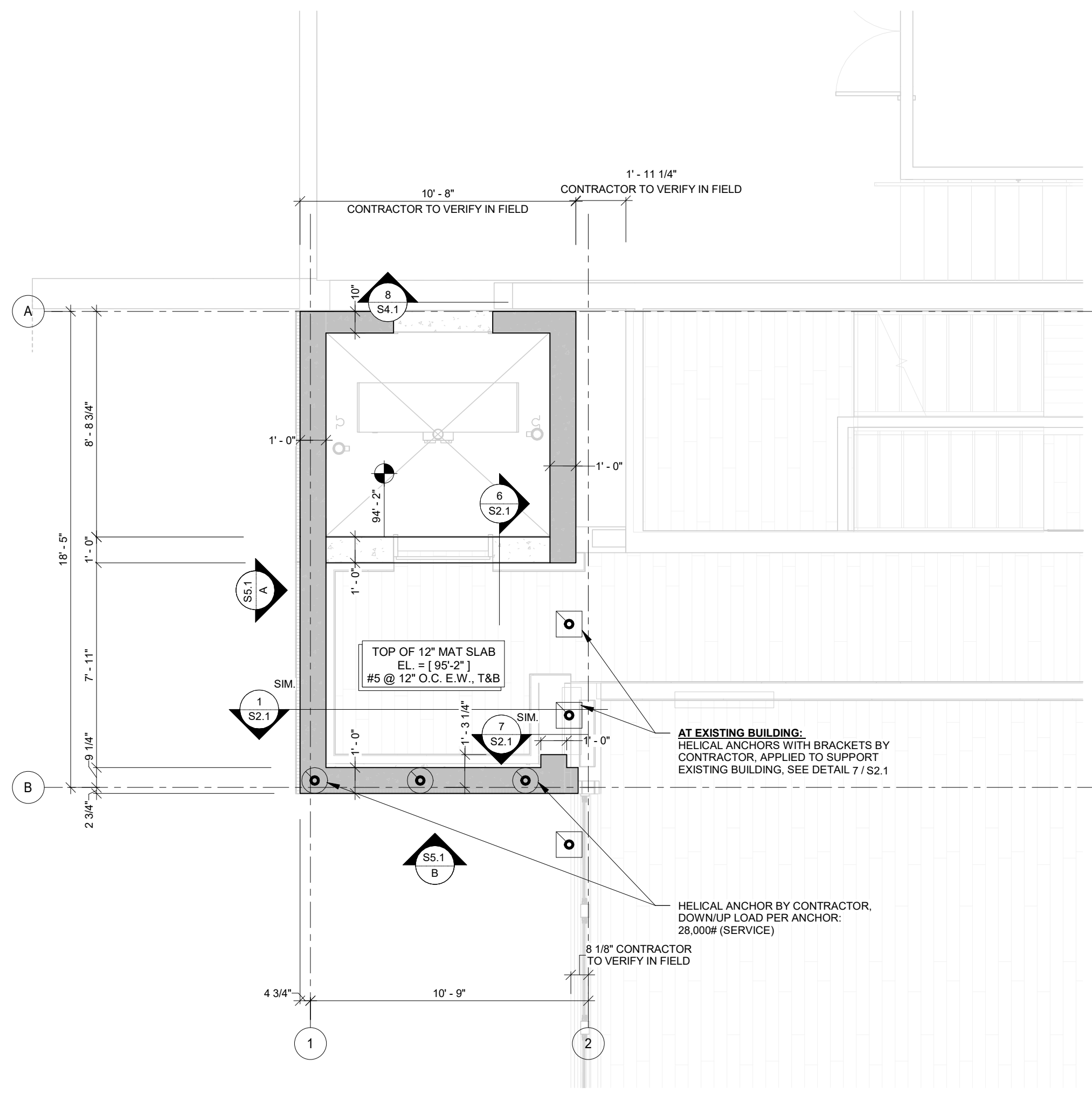
PLAN NOTES:

- OVER-EXCAVATION AND BACKFILL REQUIRED TO ACHIEVE DESIGN BEARING PRESSURES. SEE FP/S0.1 & GEOTECHNICAL REPORT FOR ADD'L INFO.
- CONTRACTOR TO COORDINATE DEPRESSED SLAB EXTENTS/DEPTHS w/ ARCH. & FLOORING MANUFACTURER
- CONTRACTOR TO FIELD VERIFY ALL RELEVANT EXISTING INFORMATION, INCLUDING EXISTING DIMENSIONS, CONDITIONS AND FRAMING
- CONTRACTOR IS RESPONSIBLE FOR ALL SHORING AND/OR UNDERPINNING OF EXISTING STRUCTURE NEEDED TO ACCOMMODATE NEW CONSTRUCTION
- SEE SHEET S2.1 FOR TYPICAL FOUNDATION / SLAB DETAILS
- NON-LOAD BEARING WALLS ARE SHOWN FOR REFERENCE ONLY. SEE ARCH. FOR SIZE & LOCATION



B EDUCATION WING BASEMENT FOUNDATION PLAN

1/4" = 1'-0"



FOUNDATION SYMBOL KEY

- T/ WALL/ STEEL
- T/ FOOTING
- JOIST BEARING
- T/ BRICK LEDGE
- FDN. STEP
- EXIST. BLDG.

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STRENGTH IN DESIGN
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LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MECHANICAL

ELECTRICAL ENGINEER:
APS, INC.

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SHEET ISSUANCES

DESCRIPTION	DATE
DESIGN DEVELOPMENT	04-01-2025
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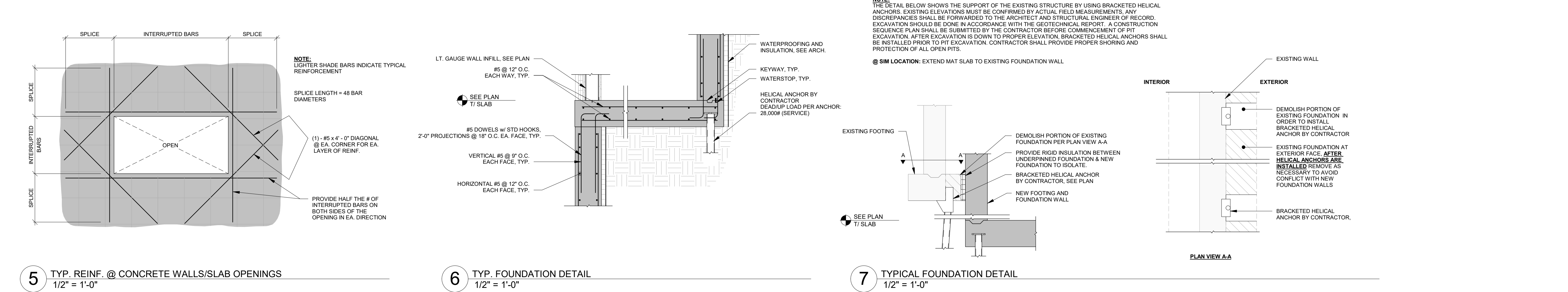
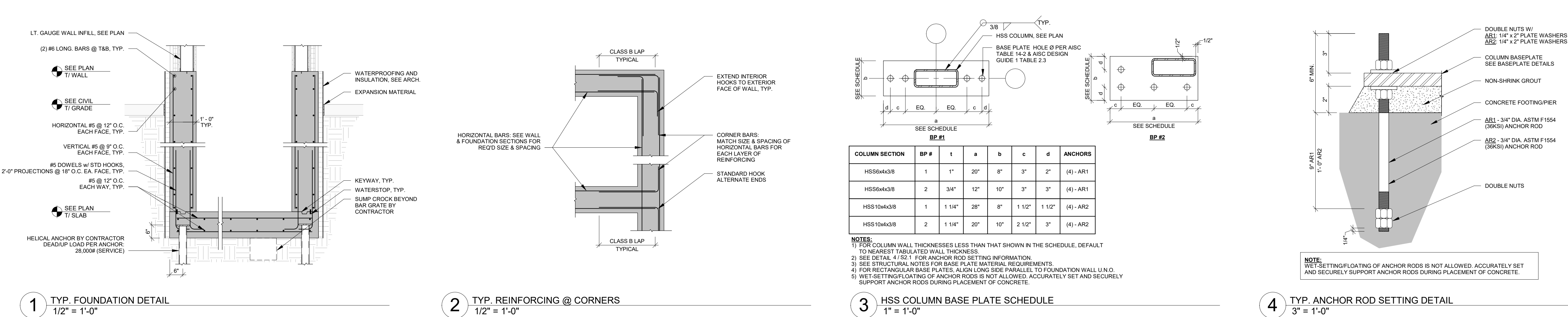
FOUNDATION PLAN

DRAWING NUMBER:

S1.1

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FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

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STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
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MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MECHANICAL

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APS, INC.

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DESIGN DEVELOPMENT	ISSUED FOR PERMIT	04-01-2025 06-11-2025

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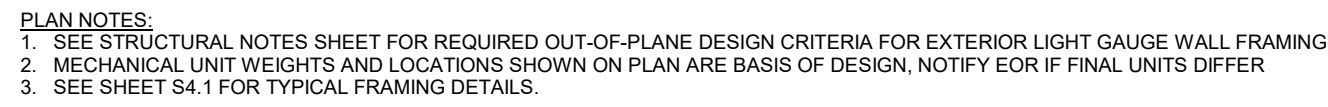
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FOUNDATION DETAILS

DRAWING NUMBER:

S2.1

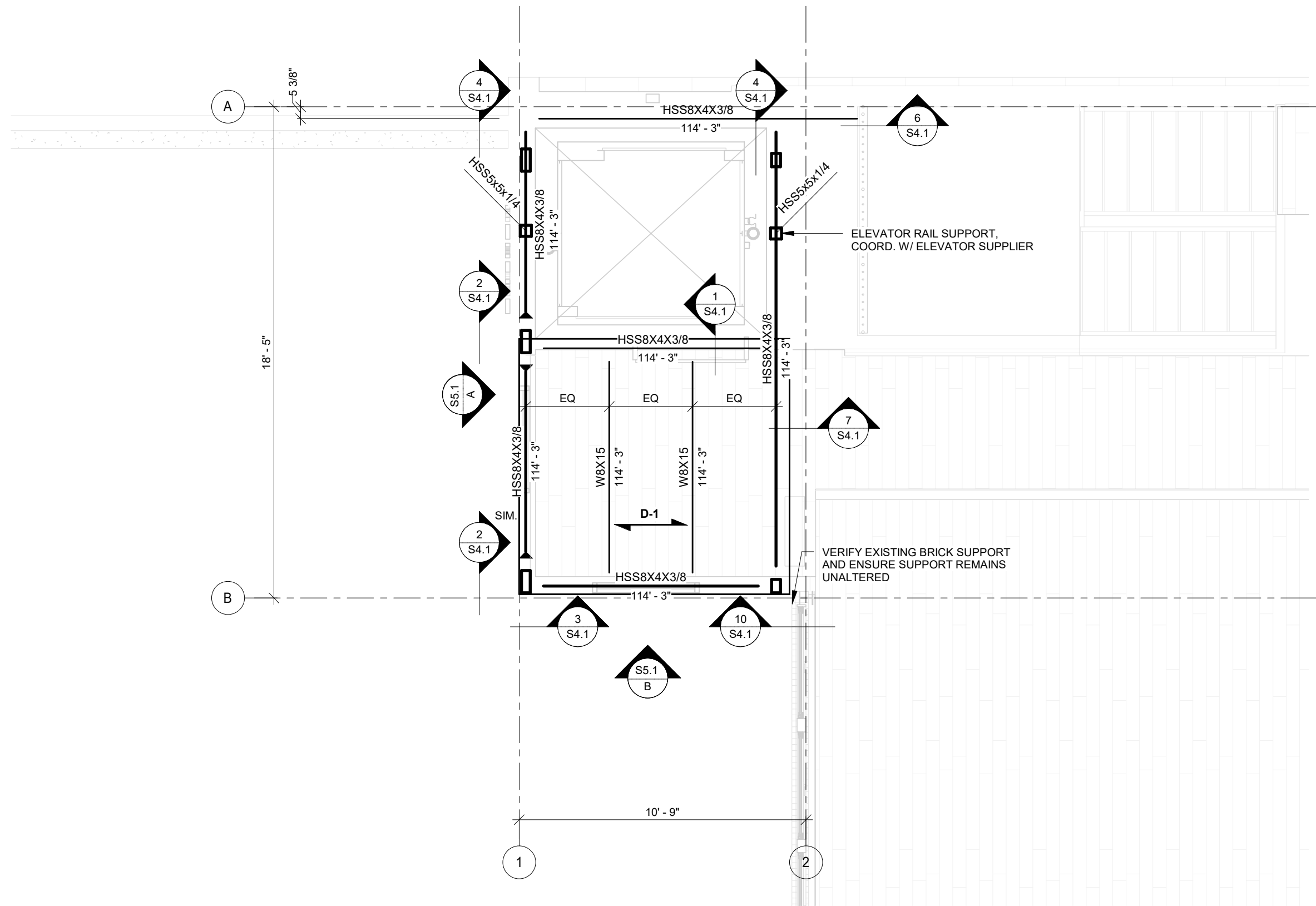
S3.1



NOTES:
1) SEE ARCH. DRAWINGS FOR NON-STRUCTURAL COMPONENTS (I.E. GYP. BOARD, RESILIENT CHANNELS, ETC.)

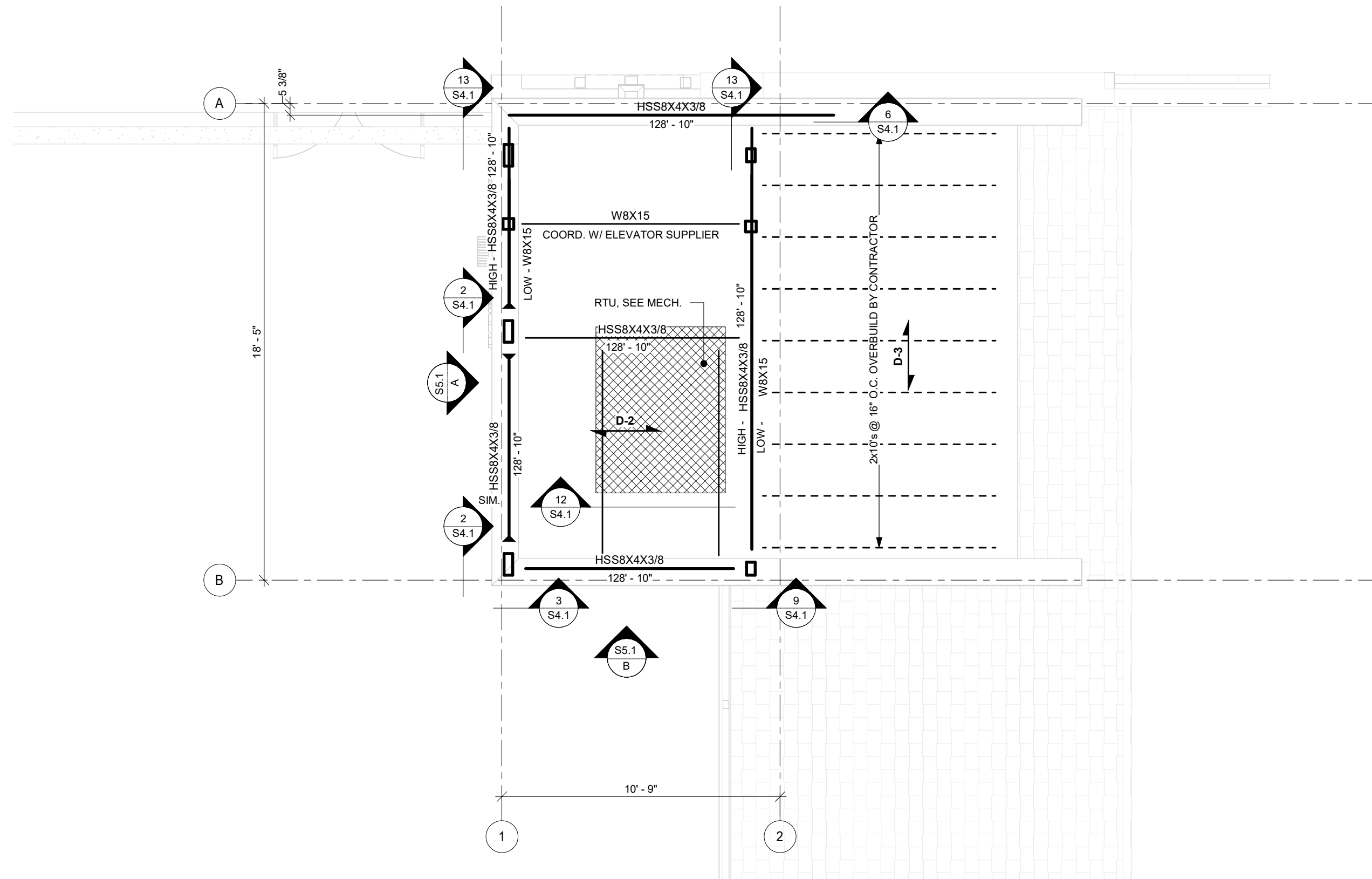
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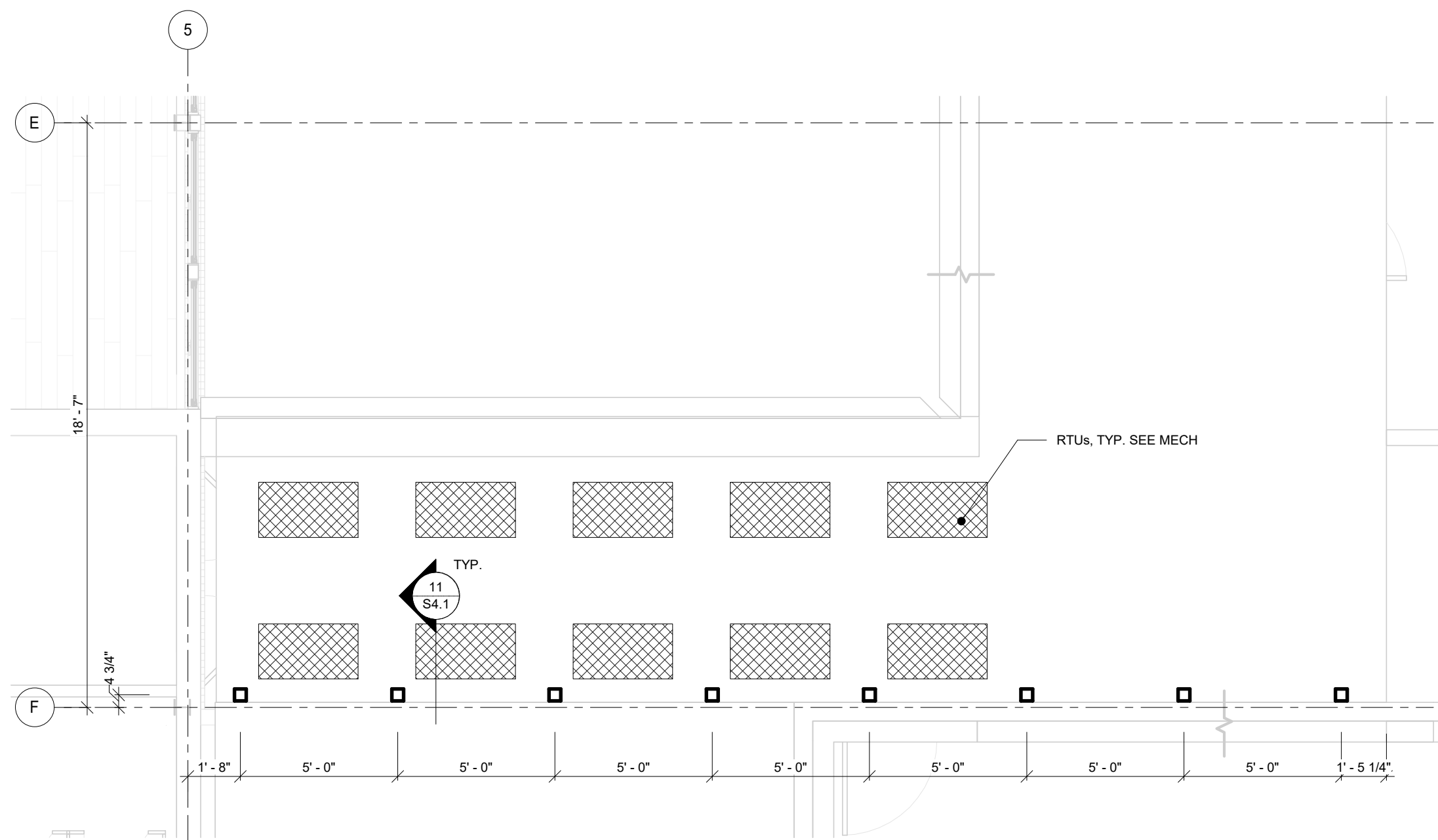


A EDUCATION WING SECOND FRAMING PLAN
1/4" = 1'-0"

PLAN NOTES:
1. SEE STRUCTURAL NOTES SHEET FOR REQUIRED OUT-OF-PLANE DESIGN CRITERIA FOR EXTERIOR LIGHT GAUGE WALL FRAMING
2. MECHANICAL UNIT WEIGHTS AND LOCATIONS SHOWN ON PLAN ARE BASIS OF DESIGN, NOTIFY EOR IF FINAL UNITS DIFFER
3. SEE SHEET S4.1 FOR TYPICAL FRAMING DETAILS.

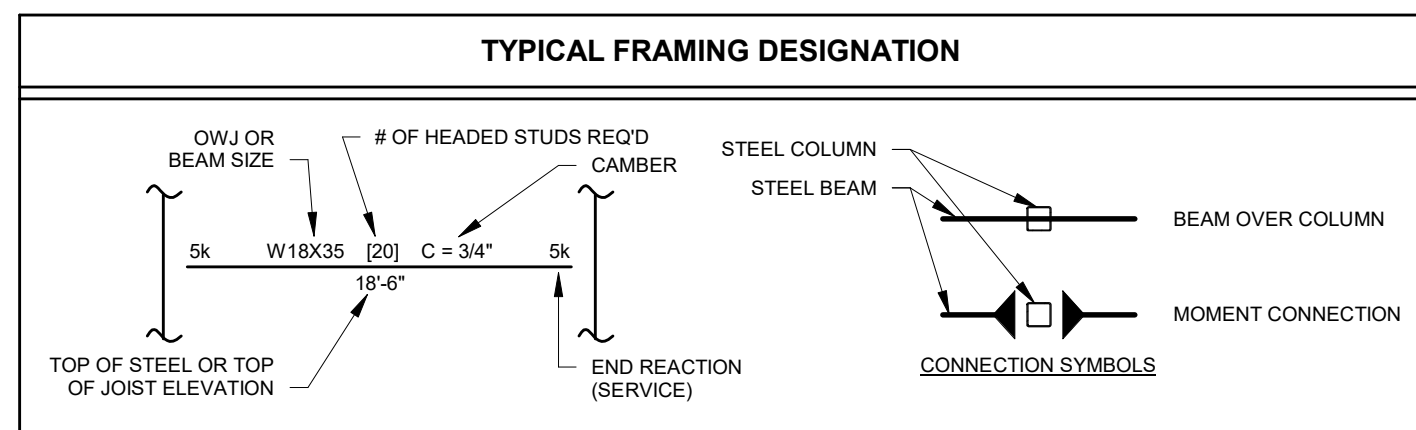


B ROOF FRAMING PLAN
1/4" = 1'-0"



C NARTHEX ROOF FRAMING PLAN
1/4" = 1'-0"

DECKING SCHEDULE			
MARK	TYPE	DETAILS	NOTES
D-1	3" - 18 GA. COMPOSITE FLOOR DECK + 3" N.W. CONCRETE TOPPING (6" TOTAL THICKNESS) w/ WWF5x6-W2.1xW2.1	SEE S0.1, NOTE SD4	--
D-2	3" - 20 GA. TYPE N ROOF DECK	SEE S0.1, NOTE SD4	--



COLD-FORMED WALL INFILL SCHEDULE	
STUD SIZE AND SPACING	600S250-54 STUDS @ 16" O.C.
BOTTOM TRACK CONNECTION TO SLAB	(1)-HILTI 0.145 PDF @ EA. STUD
BOTTOM TRACK CONNECTION TO BEAM	(1)-HILTI 0.145 PDF @ EA. STUD

NOTES:
1) SEE ARCH. DRAWINGS FOR NON-STRUCTURAL COMPONENTS (I.E. GYP. BOARD, RESILIENT CHANNELS, ETC.).

WOOD SHEATHING SCHEDULE			
MARK	TYPE	DETAILS	NOTES
D-3	5/8" OSB SHEATHING	SEE WF GENERAL STRUCTURAL NOTES	AT ROOF

SECOND FLOOR AND ROOF FRAMING PLAN

DRAWING NUMBER:

S3.2

PROJECT NUMBER: RRE22581

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

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970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MECHANICAL

ELECTRICAL ENGINEER:
APS, INC.

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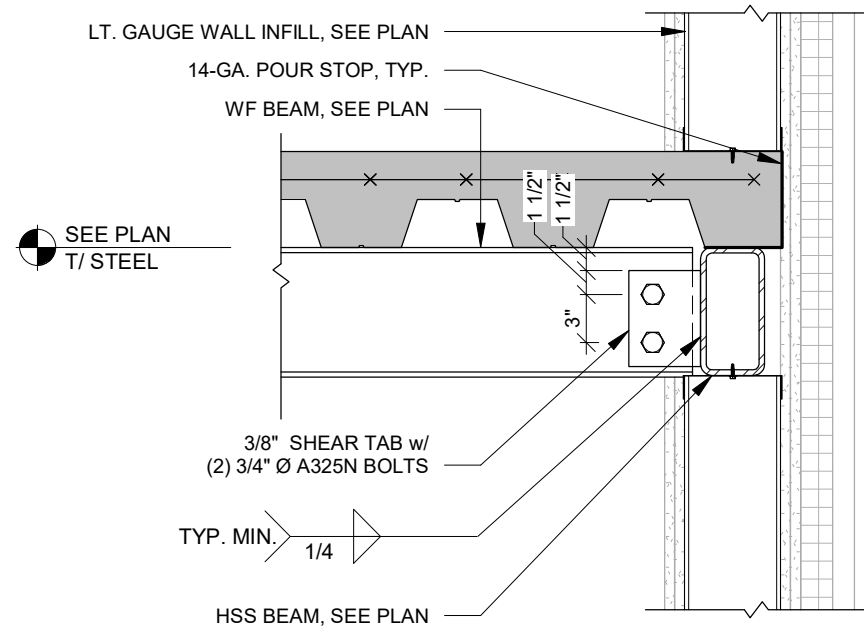
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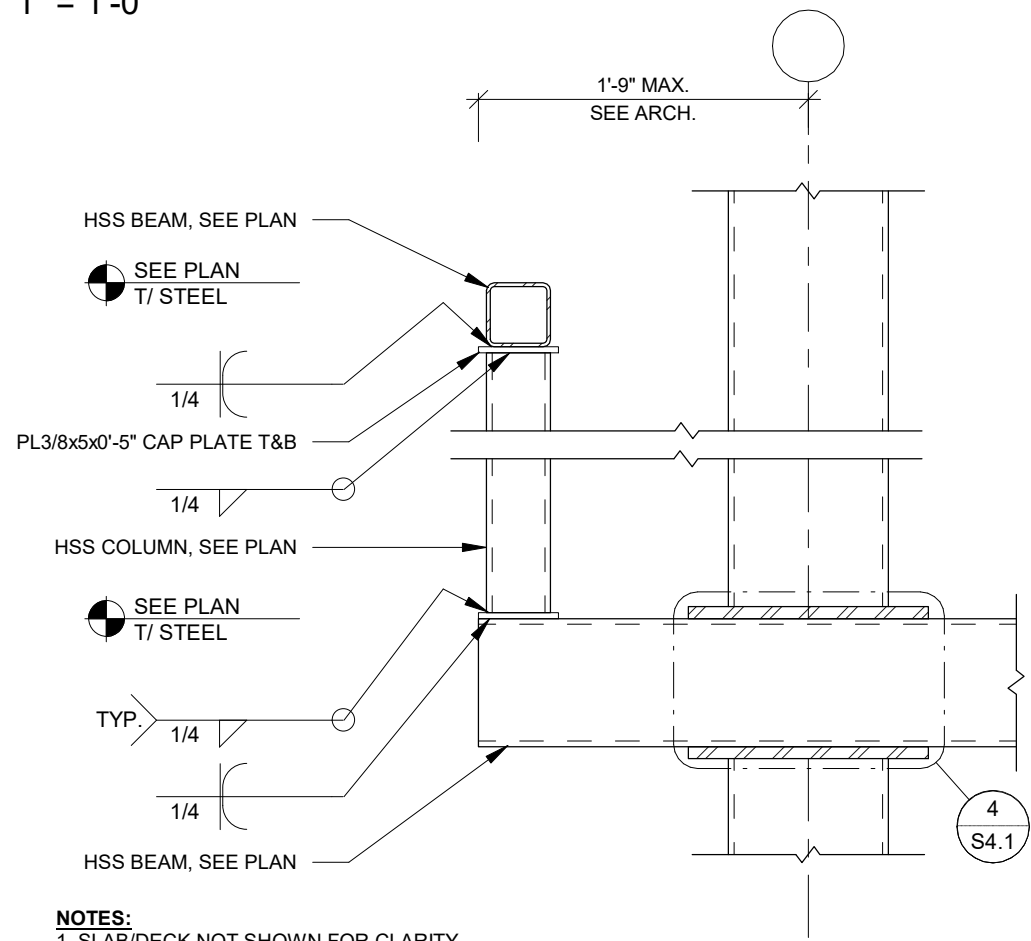
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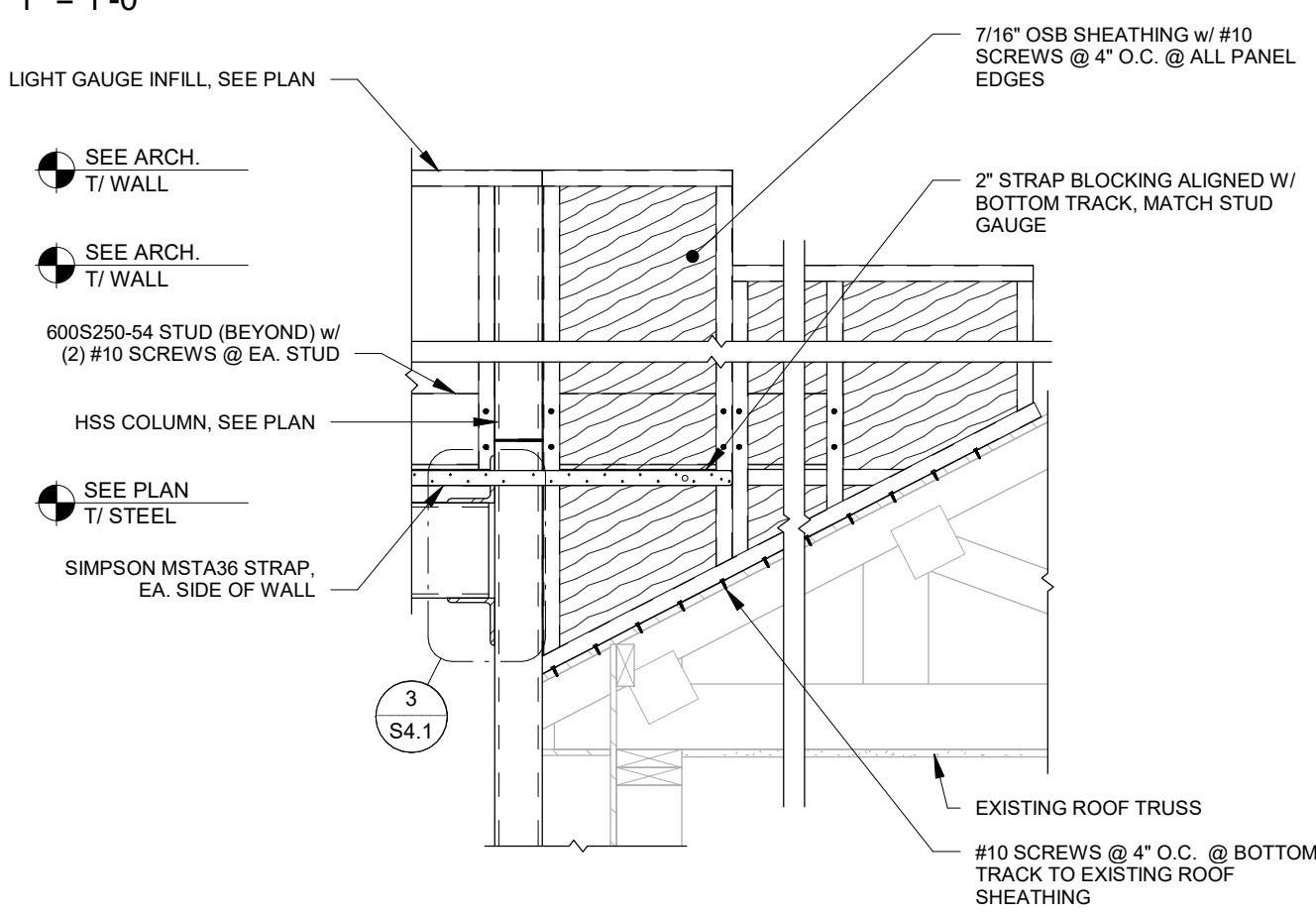
NOTES:
1. SEE ARCH. FOR NON-STRUCTURAL WALL AND FLOOR COMPONENTS.

1 TYP. BEAM TO HSS BEAM
1" = 1'-0"



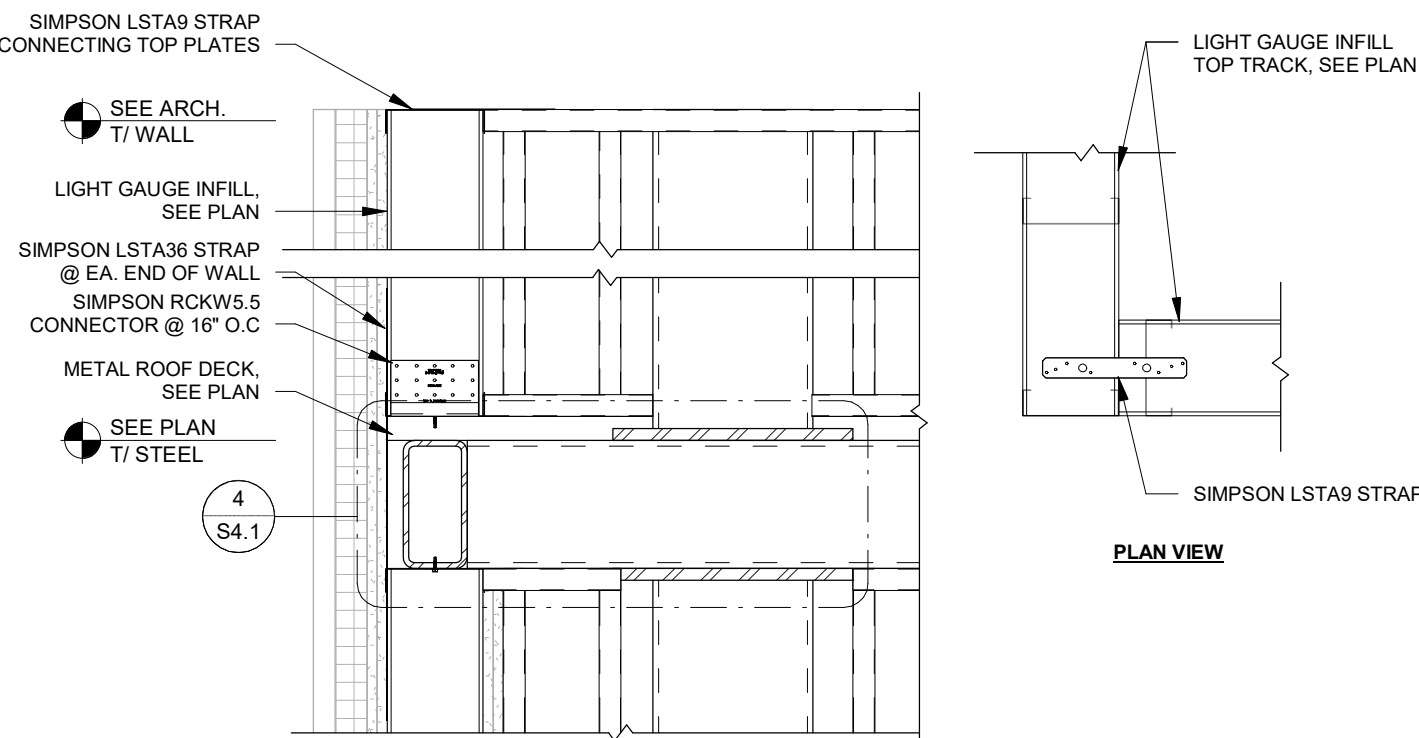
NOTES:
1. SLAB/DECK NOT SHOWN FOR CLARITY

5 FRAMING DETAIL
1" = 1'-0"



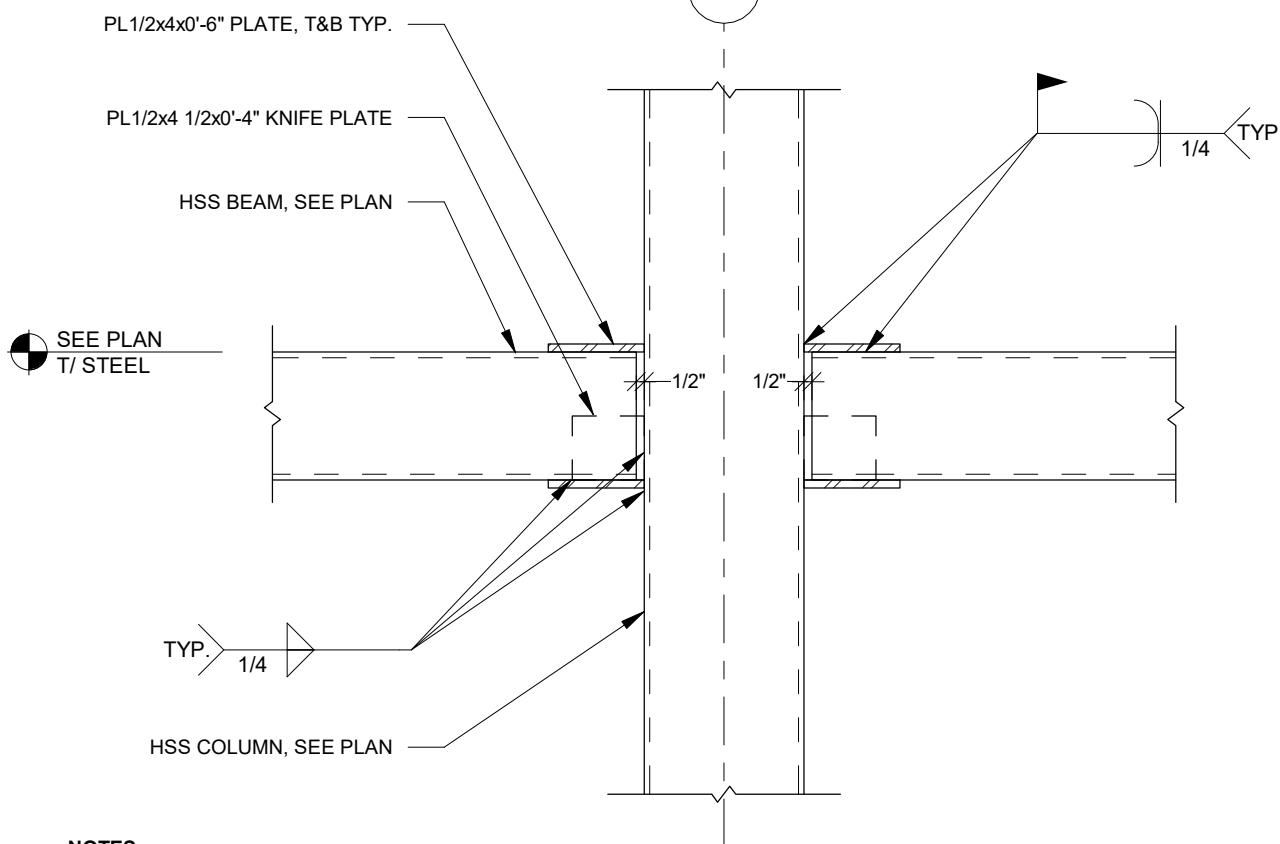
NOTES:
1. SEE ARCH. FOR NON-STRUCTURAL ROOF, AND WALL COMPONENTS

9 FRAMING DETAIL
3/4" = 1'-0"



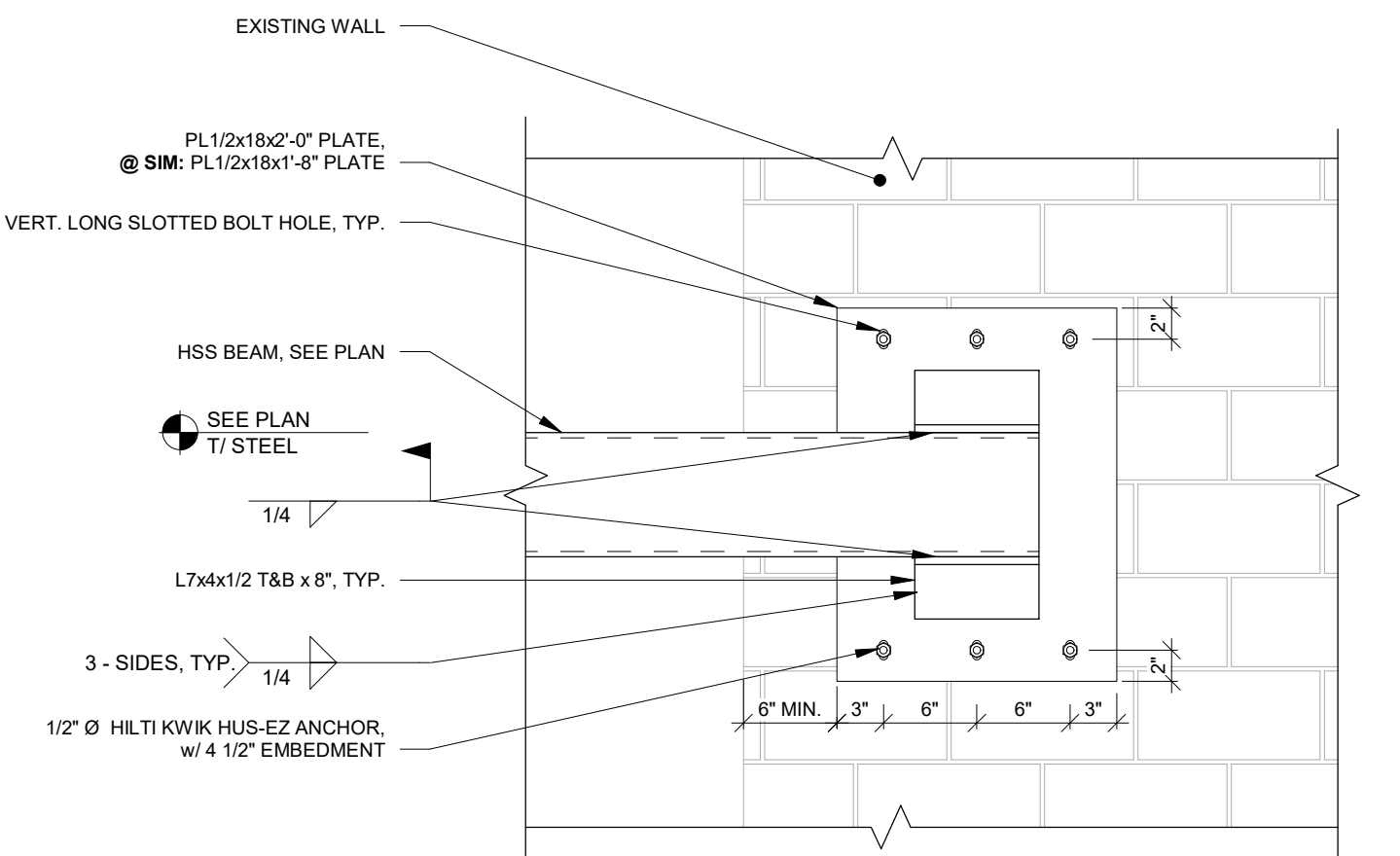
NOTES:
1. SEE ARCH. FOR NON-STRUCTURAL WALL AND ROOF COMPONENTS

13 PARAPET DETAIL
1" = 1'-0"



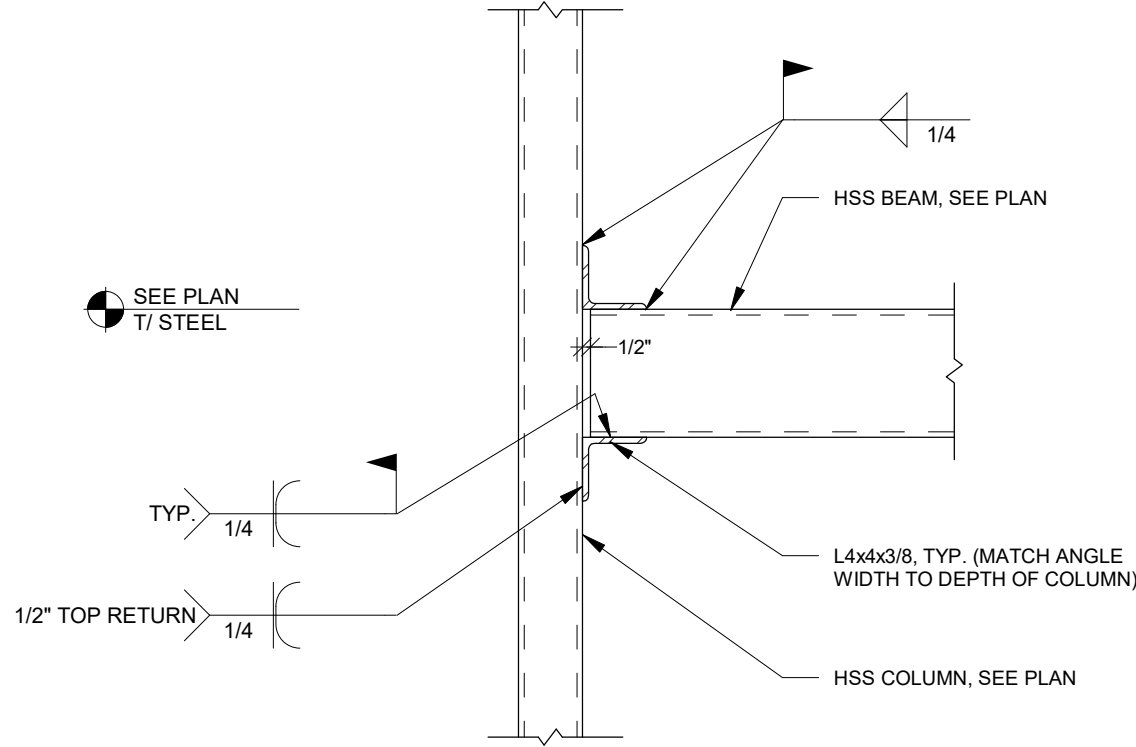
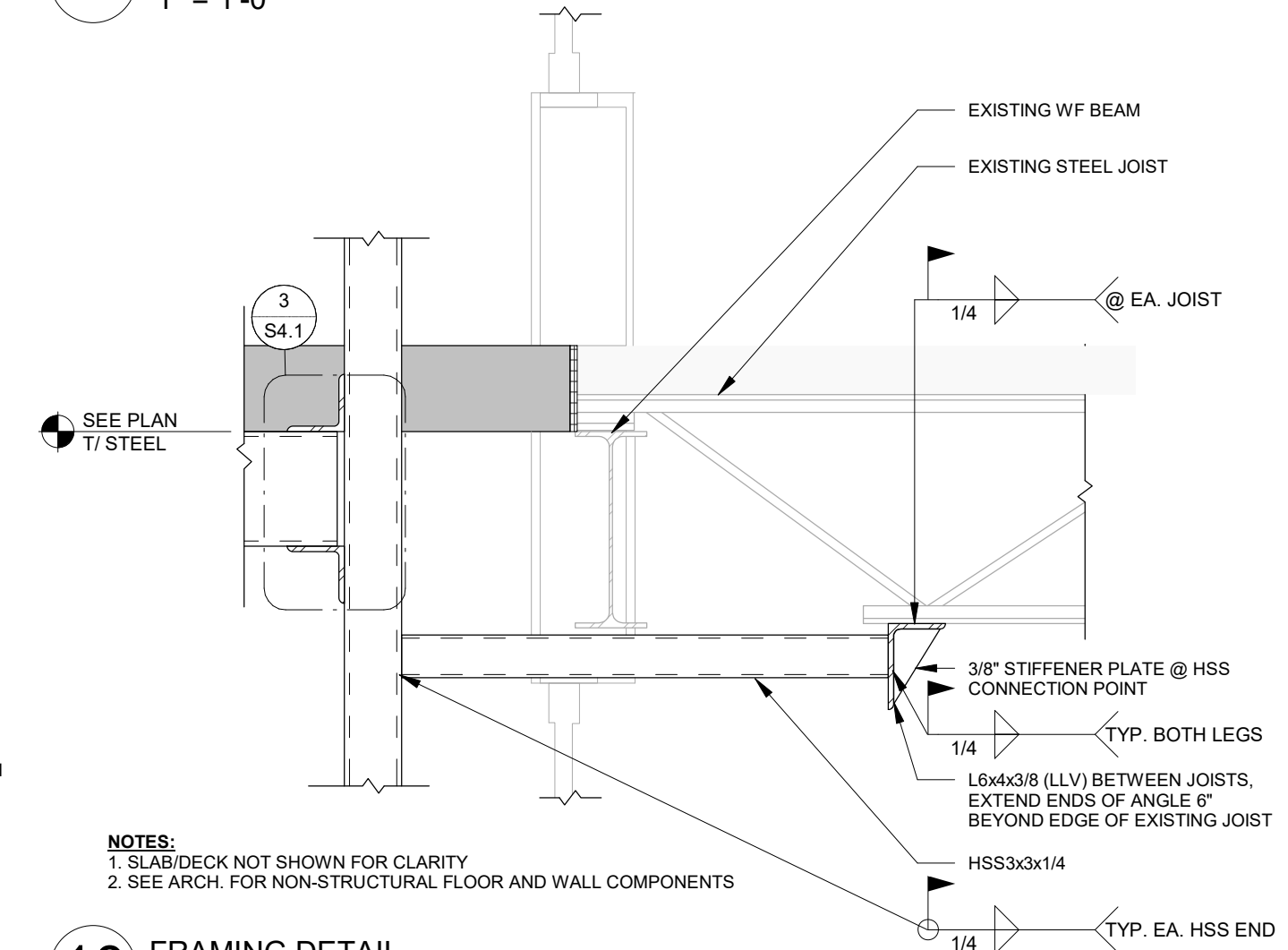
NOTES:
1. SLAB/DECK NOT SHOWN FOR CLARITY
2. ONLY ONE BEAM AT SIM CONDITIONS.

2 TYP. MOMENT CONNECTION
1" = 1'-0"



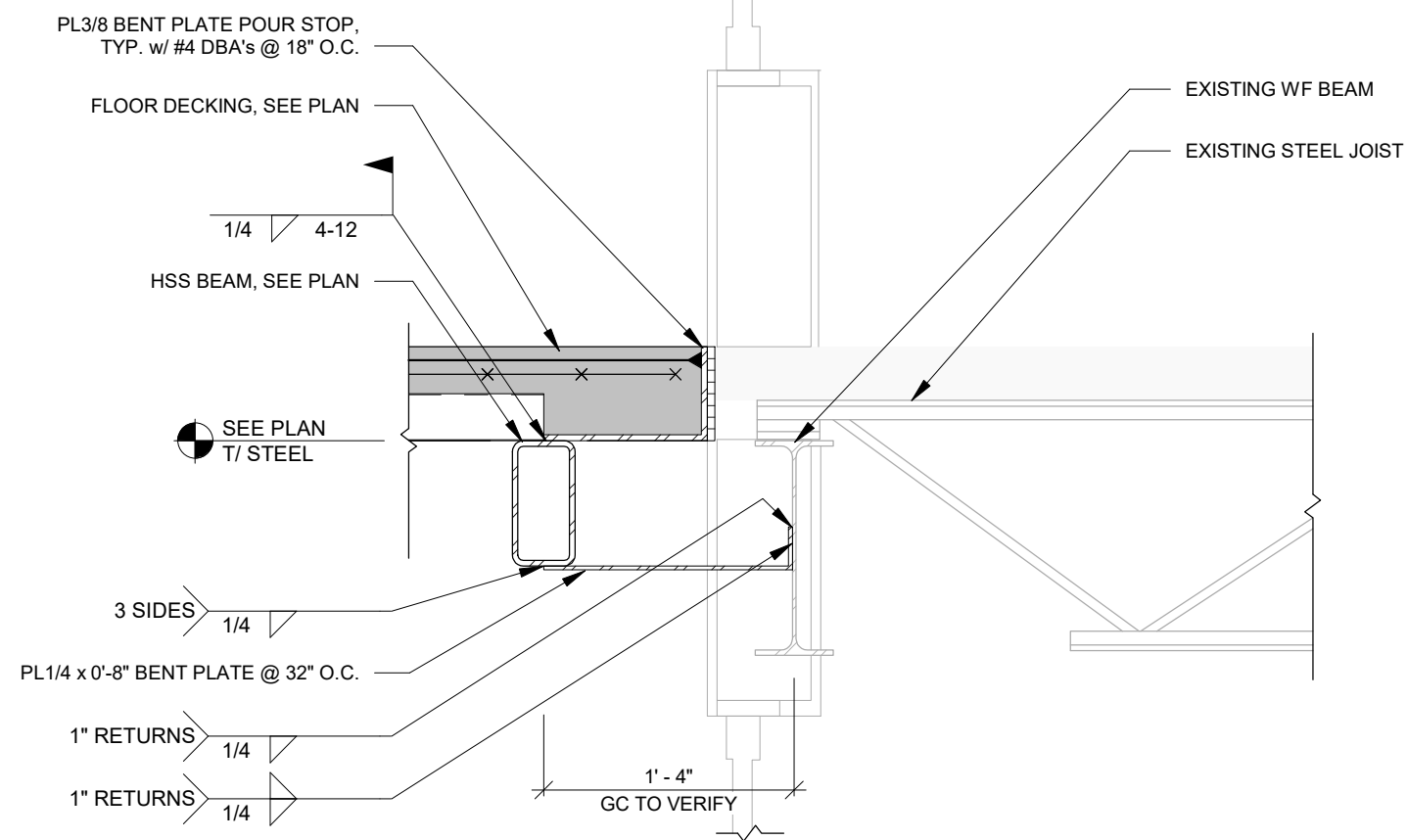
NOTES:
1. SLAB/DECK NOT SHOWN FOR CLARITY
2. SEE ARCH. FOR NON-STRUCTURAL FLOOR AND WALL COMPONENTS

10 FRAMING DETAIL
1" = 1'-0"



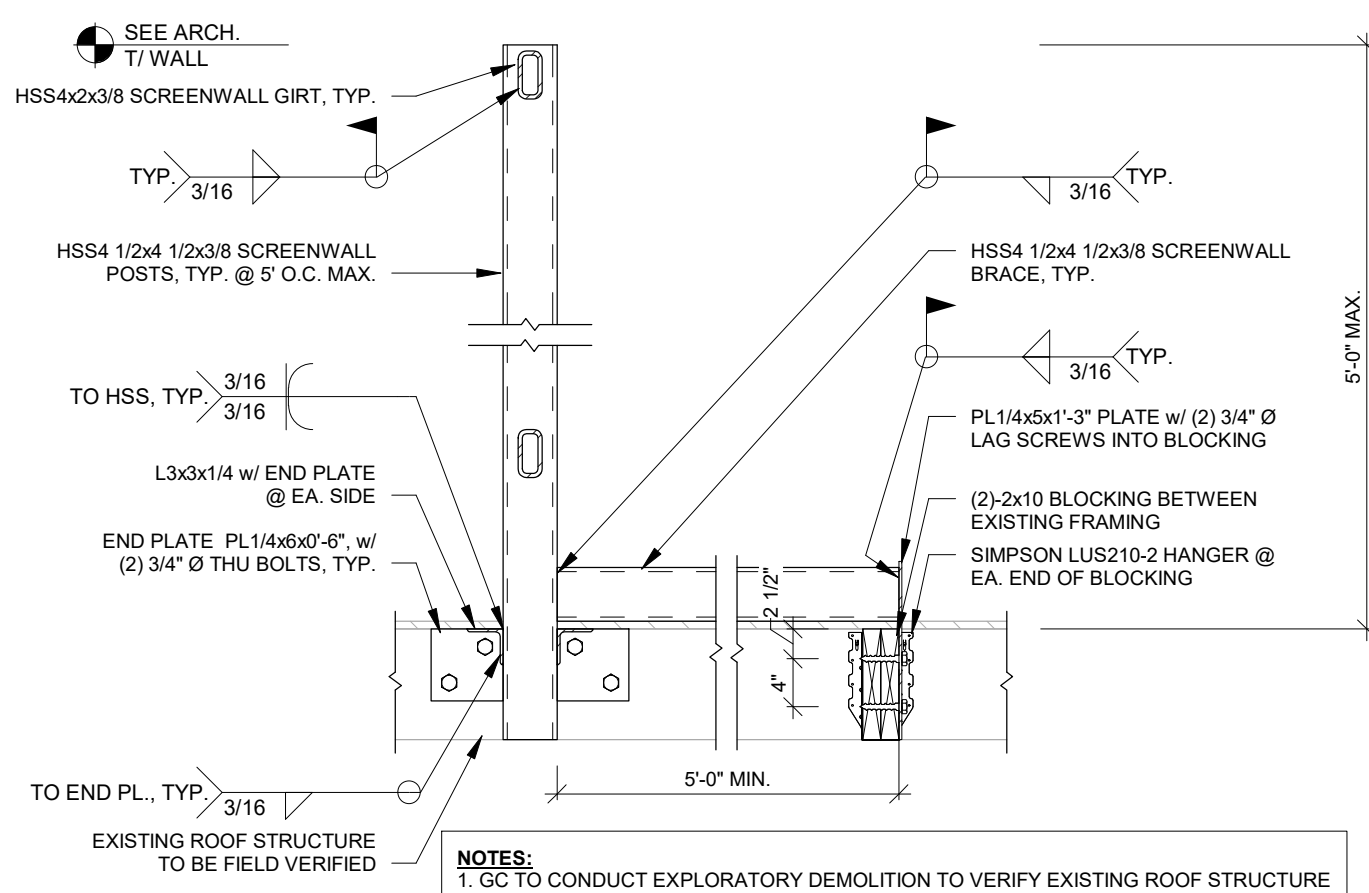
NOTES:
1. SLAB/DECK NOT SHOWN FOR CLARITY

3 FRAMING DETAIL
1" = 1'-0"



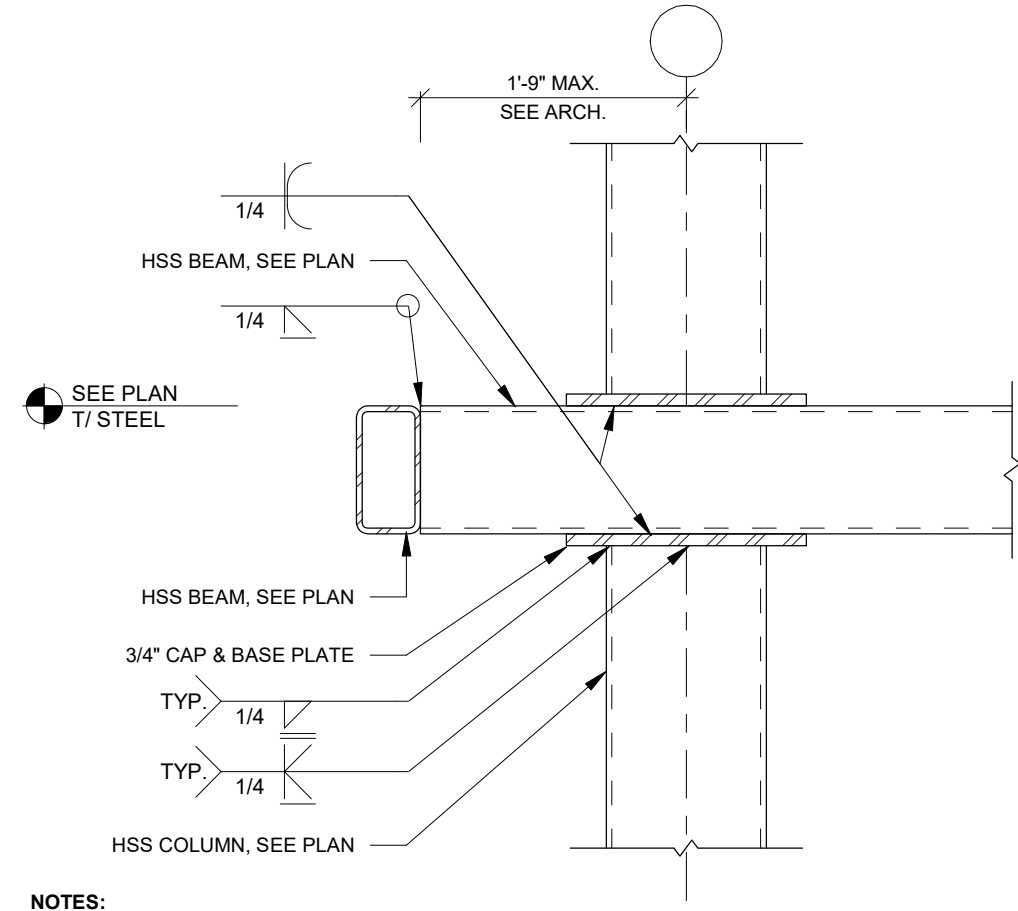
NOTES:
1. SEE ARCH. FOR NON-STRUCTURAL FLOOR AND WALL COMPONENTS

7 FRAMING DETAIL
1" = 1'-0"



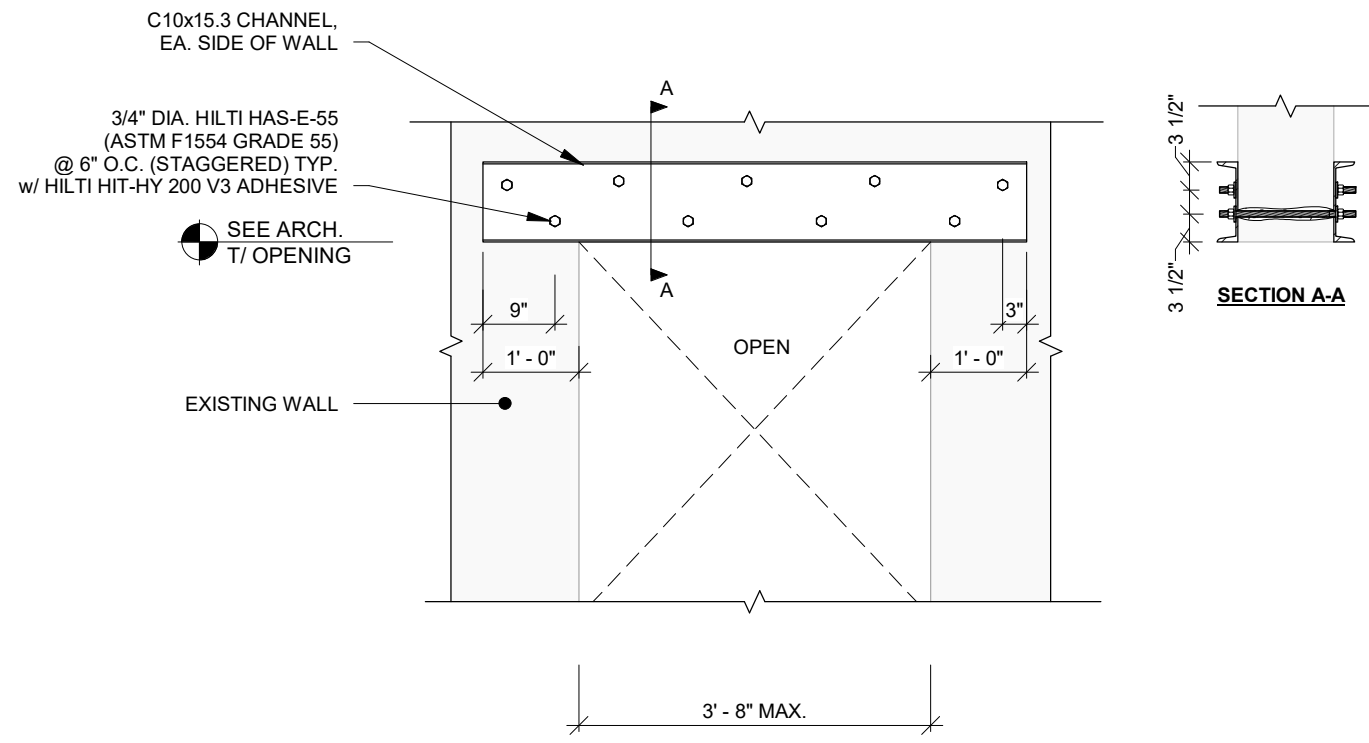
NOTES:
1. GC TO CONDUCT EXPLORATORY DEMOLITION TO VERIFY EXISTING ROOF STRUCTURE

11 MECHANICAL SCREEN
3/4" = 1'-0"



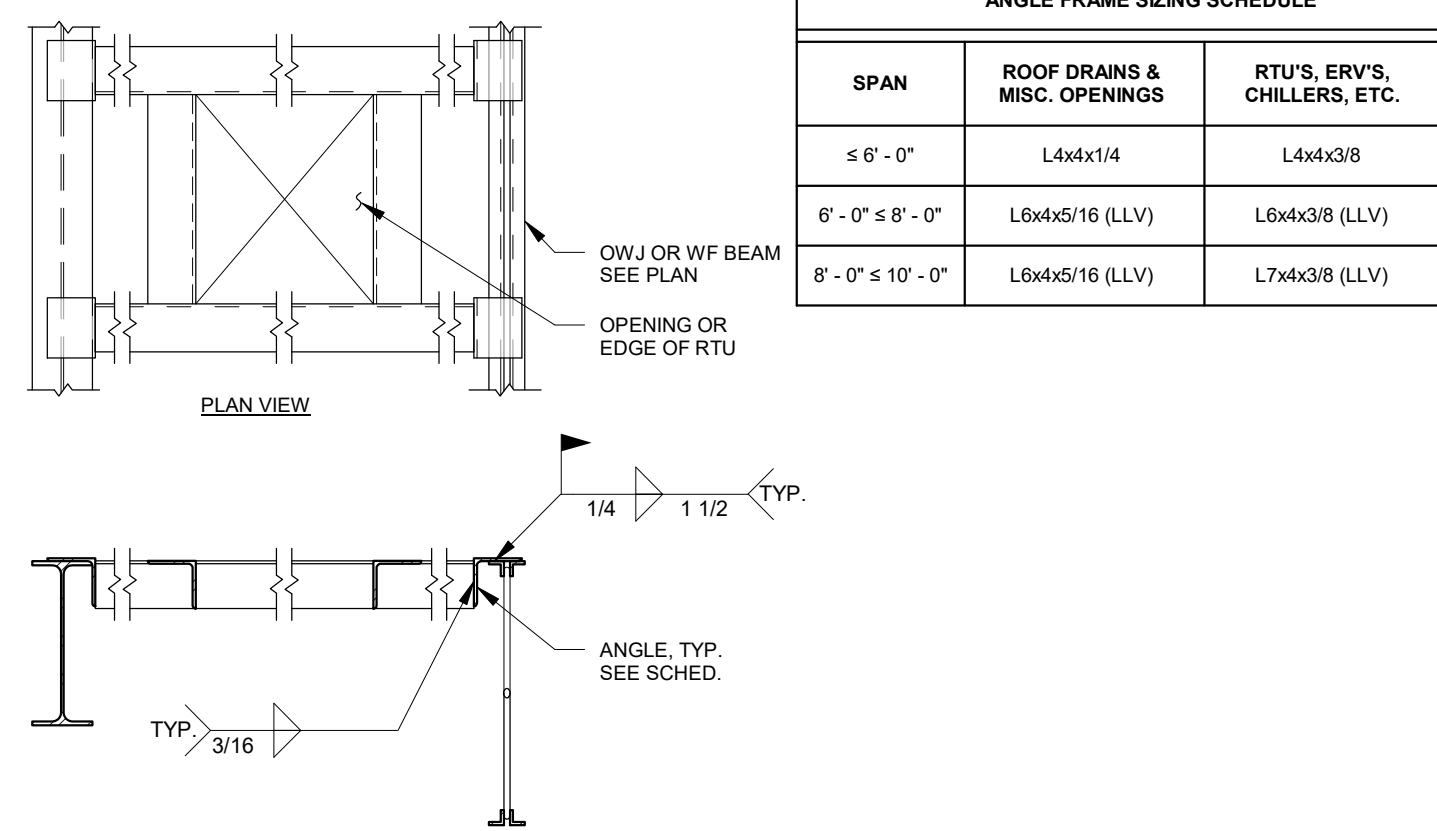
NOTES:
1. SLAB/DECK NOT SHOWN FOR CLARITY
2. ONLY ONE BEAM AT SIM CONDITIONS.

4 FRAMING DETAIL
1" = 1'-0"



NOTES:
1. SEE ARCH. FOR NON-STRUCTURAL FLOOR AND WALL COMPONENTS
2. AFTER ALL GROUT AND ADHESIVE HAS FULLY CURED, NEW OPENING MAY BE SAW-CUT.

8 NEW DOOR IN EXISTING WALL
1/2" = 1'-0"



NOTES:
1. SEE GENERAL STRUCTURAL NOTES FOR DECK WELDS TO ANGLES
2. CONTRACTOR IS RESPONSIBLE TO COORDINATE LOCATION OF OPENINGS w/ MEP AND ARCH DRAWINGS (NOT ALL LOCATIONS ARE SHOWN ON STRUCTURAL DRAWINGS)
3. WHERE ANGLE FRAME TERMINATES AT A CMU WALL, PROVIDE END PL 3/8x12x1'-0\"/>

12 TYP. ANGLE FRAME
3/4" = 1'-0"

ANGLE FRAME SIZING SCHEDULE		
SPAN	ROOF DRAINS & MISC. OPENINGS	RTU'S, ERV'S, CHILLERS, ETC.
≤ 6' - 0"	L4x4x1/4	L4x4x3/8
6' - 0" ≤ 8' - 0"	L6x4x5/16 (LLV)	L6x4x3/8 (LLV)
8' - 0" ≤ 10' - 0"	L6x4x5/16 (LLV)	L7x4x3/8 (LLV)

PROJECT NUMBER: RRE22581

**FIRST
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MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MECHANICAL

ELECTRICAL ENGINEER:
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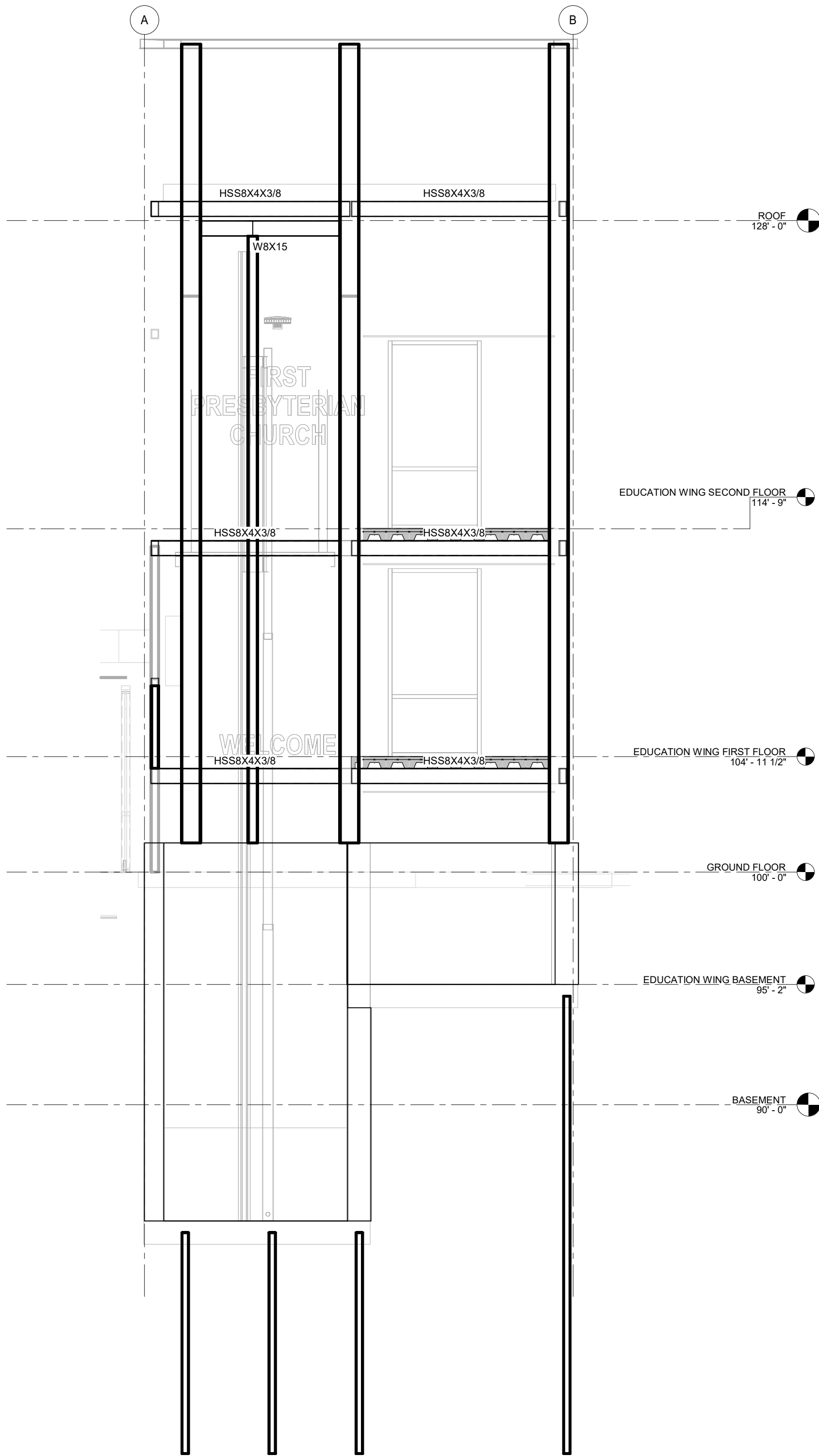
FRAMING DETAILS

DRAWING NUMBER:

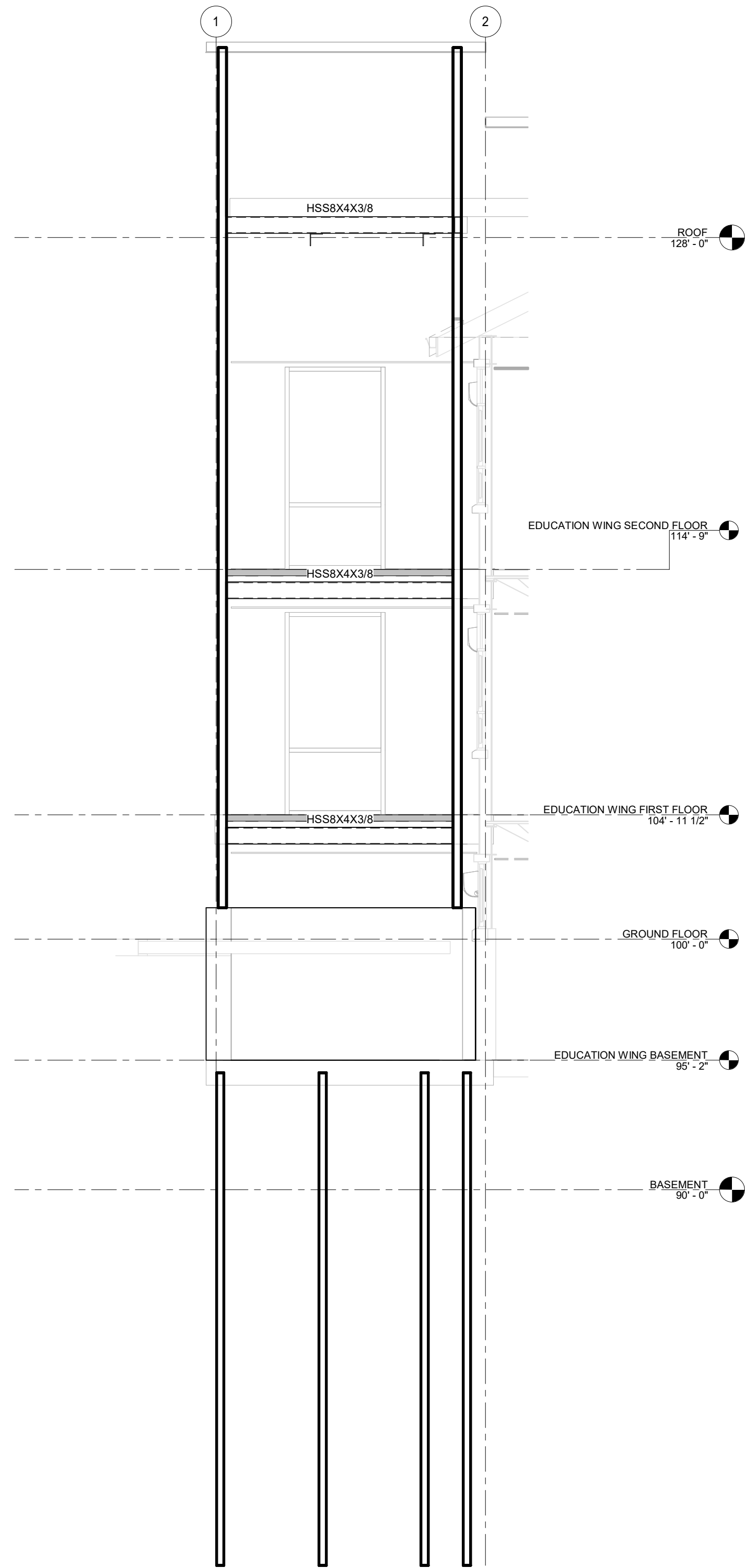
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A WEST FRAMING ELEVATION
1/4" = 1'-0"



B SOUTH FRAMING ELEVATION
1/4" = 1'-0"

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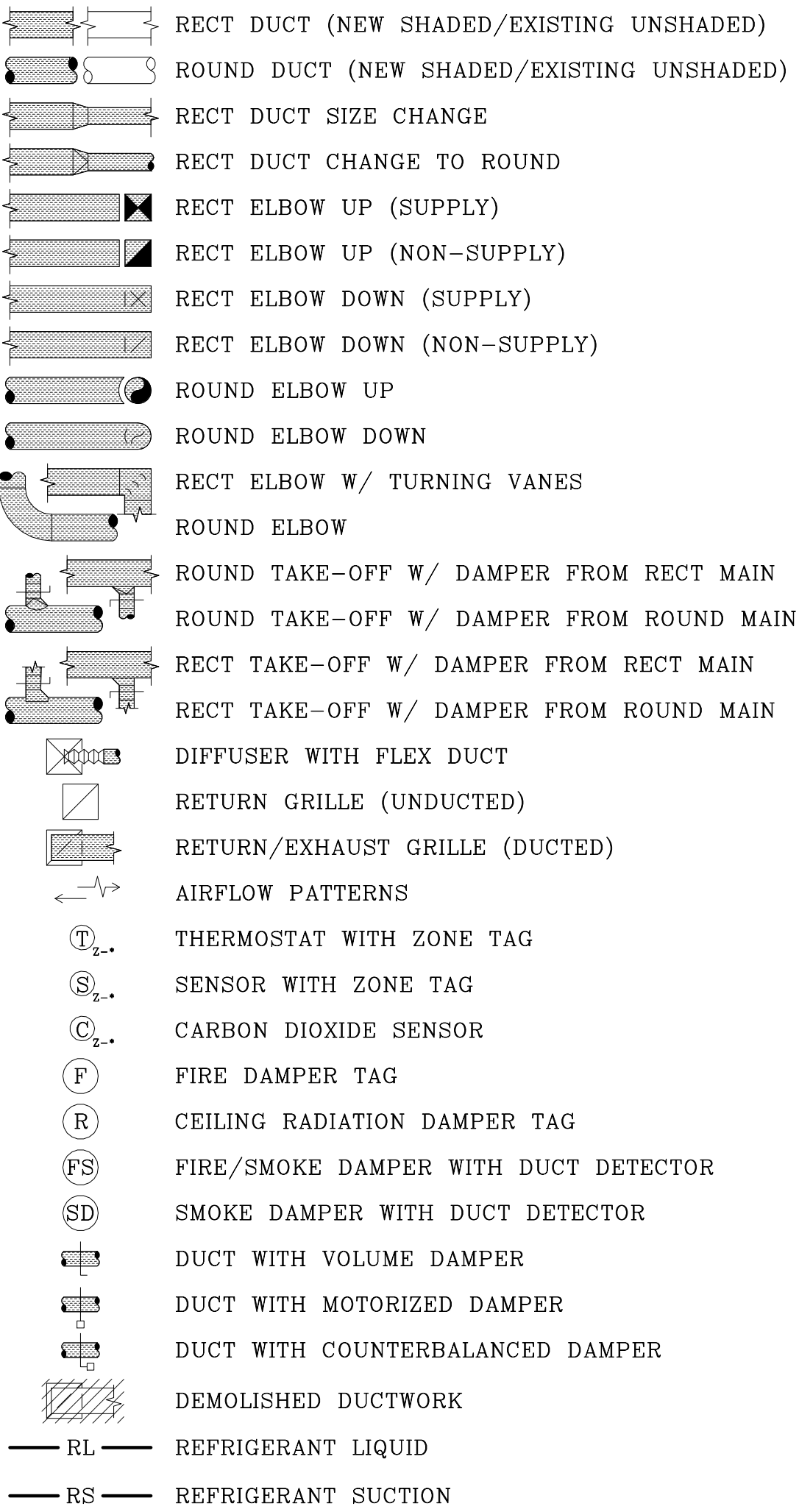
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FRAMING ELEVATIONS

DRAWING NUMBER:

S5.1

HVAC LEGEND:



RECT DUCT (NEW SHADED/EXISTING UNSHADED)

ROUND DUCT (NEW SHADED/EXISTING UNSHADED)

RECT DUCT SIZE CHANGE

RECT DUCT CHANGE TO ROUND

RECT ELBOW UP (SUPPLY)

RECT ELBOW UP (NON-SUPPLY)

RECT ELBOW DOWN (SUPPLY)

RECT ELBOW DOWN (NON-SUPPLY)

ROUND ELBOW UP

ROUND ELBOW DOWN

RECT ELBOW W/ TURNING VANES

ROUND ELBOW

ROUND TAKE-OFF W/ DAMPER FROM RECT MAIN

ROUND TAKE-OFF W/ DAMPER FROM ROUND MAIN

RECT TAKE-OFF W/ DAMPER FROM RECT MAIN

RECT TAKE-OFF W/ DAMPER FROM ROUND MAIN

DIFFUSER WITH FLEX DUCT

RETURN GRILLE (UNDUCTED)

RETURN/EXHAUST GRILLE (DUCTED)

AIRFLOW PATTERNS

THERMOSTAT WITH ZONE TAG

SENSOR WITH ZONE TAG

CARBON DIOXIDE SENSOR

FIRE DAMPER TAG

CEILING RADIATION DAMPER TAG

FIRE/SMOKE DAMPER WITH DUCT DETECTOR

SMOKE DAMPER WITH DUCT DETECTOR

DUCT WITH VOLUME DAMPER

DUCT WITH MOTORIZED DAMPER

DUCT WITH COUNTERBALANCED DAMPER

DEMOLISHED DUCTWORK

— RL — REFRIGERANT LIQUID

— RS — REFRIGERANT SUCTION

THE MECHANICAL DRAWINGS ARE NOT TO BE USED FOR DUCT OR PIPE FABRICATION TAKE-OFFS – INTEGRATED WAS NOT HIRED TO PRODUCE BIM LEVEL DETAIL DRAWINGS – FIELD MEASURE AND VERIFY PRIOR TO FABRICATION

GENERAL MECHANICAL REQUIREMENTS:

CODES AND PERMITS
WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES, REGULATIONS AND ORDINANCES. PERMITS NECESSARY FOR PERFORMANCE OF WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR.

PRE-BID
FOR EXISTING BUILDINGS, THE BIDDERS SHALL PERFORM A BUILDING AND SPACE SITE VISIT PRIOR TO BID. THE ACT OF SUBMITTING A BID INDICATES THE BIDDER DOES AGREE THEY HAVE A FULL UNDERSTANDING OF THE SCOPE OF WORK INVOLVED WITH THE EXISTING CONDITIONS.

DRAWINGS AND COORDINATION
DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC IN NATURE, AND ARE NOT INTENDED TO BE SCALED FOR EXACT MEASUREMENTS NOR TO SERVE AS SHOP DRAWINGS. CHANGES FROM THE PLANS MADE WITHOUT CONSENT OF THE ENGINEER SHALL RELIEVE THE ENGINEER OF RESPONSIBILITY FOR ALL CONSEQUENCES ARRIVING OUT OF SUCH CHANGES. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHERE CONDITIONS REQUIRE REASONABLE CHANGES TO THOSE INDICATED ON THE DRAWINGS, MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE ALL WORK WITH OTHER TRADES.

WARRANTY
WORKMANSHIP, MATERIALS, EQUIPMENT AND PROPER OPERATION SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE FROM THE OWNER. INITIAL ACCEPTANCE OF WORK SHALL NOT WAIVE THIS GUARANTEE. THIS GUARANTEE SHALL NOT INCLUDE NORMAL MAINTENANCE REQUIRED BY THE OWNER AS DESCRIBED IN EQUIPMENT OPERATION AND MAINTENANCE MANUALS.

SUBMITTALS
CONTRACTOR SHALL SUBMIT TO THE ARCHITECT/ENGINEER A PORTABLE DOCUMENT FORMAT "PDF" COPY OF SUBMITTAL BROCHURES FOR REVIEW. PROVIDE INFORMATION ON ALL MAJOR EQUIPMENT AS LISTED ON DRAWING EQUIPMENT SCHEDULES, AS WELL AS VALVES, DUCTWORK ACCESSORIES AND TEMPERATURE CONTROL DIAGRAM AS APPLICABLE.

OPERATION AND MAINTENANCE MANUALS
CONTRACTOR SHALL FURNISH AT THE COMPLETION OF THE PROJECT A PORTABLE DOCUMENT FORMAT "PDF" COPY OF COMPLETE OPERATION AND MAINTENANCE MANUALS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO TURNOVER TO OWNER. MANUALS TO BE BOUND AND INCLUDE INSTALLATION INSTRUCTIONS, REPLACEMENT PARTS LISTS AND MAINTENANCE INFORMATION ON ALL EQUIPMENT AS DESCRIBED IN THE SUBMITTALS SECTION. COMPLETED OPERATION AND MAINTENANCE MANUALS ARE TO BE FORWARDED TO THE OWNER WITHIN 90 DAYS AFTER OWNER BUILDING ACCEPTANCE.

PRODUCT SUBSTITUTIONS
MANUFACTURER MODEL NUMBERS LISTED ON THE DRAWINGS AND/OR SPECIFICATIONS ARE TO BE CONSIDERED AS THE BASIS OF DESIGN. WHERE TWO OR MORE ALTERNATE MANUFACTURERS OR MATERIALS ARE LISTED, THE CHOICE OF THESE SHALL BE OPTIONAL WITH THE CONTRACTOR. PRIOR TO THE AWARDED OF THE CONTRACT, CONTRACTOR MAY REQUEST A PROPOSED SUBSTITUTION OF MATERIALS IN WRITING TO THE ARCHITECT/ENGINEER NO LATER THAN SEVEN DAYS PRIOR TO THE RECEIPT OF BIDS. THE COST OF ANY CHANGES REQUIRED BY OTHER TRADES, INCLUDING A/E DESIGN, DUE TO THE USE OF EQUIPMENT AND/OR MATERIALS OTHER THAN THAT OF THE BASIS OF DESIGN SHALL BE PAID BY THE CONTRACTOR.

RECORD DRAWINGS
CONTRACTORS SHALL MAINTAIN A COMPLETE AND ACCURATE SET OF MARKED UP DRAWINGS SHOWING ACTUAL LOCATIONS OF INSTALLED WORK. THESE DRAWINGS ARE TO BE FORWARDED TO THE OWNER AS PART OF THE OPERATION AND MAINTENANCE MANUALS AT THE COMPLETION OF THE PROJECT.

ACCESS DOORS
PROVIDE ALL ACCESS DOORS/PANELS AS REQUIRED FOR ACCESS TO VALVES, DAMPERS, CONTROL DEVICES, FILTERS AND ANY OTHER ITEMS FOR WHICH ACCESS IS REQUIRED FOR EITHER OPERATION OR SERVICING. WHERE ACCESS DOORS ARE TO BE INSTALLED IN ASSEMBLIES REQUIRED TO HAVE A SPECIFIC FIRE RATING, ACCESS DOORS SHALL ALSO BE FIRE RATED.

PIPING AND DUCTWORK SEALANT THROUGH RATED ASSEMBLIES
PENETRATIONS SHALL BE SEALED AS REQUIRED IN ACCORDANCE WITH BUILDING AND MECHANICAL CODES TO RESIST THE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION IN ORDER TO MAINTAIN THE RESISTANCE RATING OF THE CONSTRUCTION BEING PENETRATED.

PROTECTION OF MATERIALS AND EQUIPMENT
CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL WORK, MATERIALS, AND EQUIPMENT PROVIDED UNDER THIS SECTION. PIPE OPENINGS SHALL BE CLOSED WITH CAPS OR PLUGS TO PREVENT THE ENTRANCE OF DEBRIS DURING CONSTRUCTION. ALL DUCTWORK OPENINGS SHALL BE SEALED CLOSED DURING CONSTRUCTION.

ALTITUDE
SUPPLIERS SHALL CONFIRM THAT ALL EQUIPMENT BEING FURNISHED IS APPROPRIATE FOR USE AT THE ALTITUDE OF THE SITE.

EQUIPMENT AND PIPING IDENTIFICATION
PROVIDE EQUIPMENT LABELS FOR ALL MAJOR EQUIPMENT, INCLUDING BUT NOT LIMITED TO AIR HANDLING SYSTEMS, FANS, VAV BOXES, CONTROLS, DAMPERS, CONTROL VALVES AND PUMPS. PROVIDE PIPE MARKERS ON CW, HW AND HWC SYSTEMS. LABELS TO BE AT MAXIMUM 8 FEET APART, WITH FLOW DIRECTION INDICATED, AS APPLICABLE. ADDITIONALLY, PROVIDE LABELING ON POTABLE WATER MANIFOLDS INDICATING PLUMBING FIXTURE SERVED BY THE OUTLET. AS APPLICABLE. LABELS SHALL BE AFFIXED OR ADHERED PERMANENTLY TO EQUIPMENT. EQUIPMENT INSTALLED INDOORS TO BE LABELED WITH EMBOSSING TAPE. EQUIPMENT INSTALLED OUTDOORS TO BE LABELED WITH ENGRAVED PLASTIC LAMINATE SIGNS. PIPE MARKERS TO BE SELF-ADHESIVE, MANUFACTURED FOR SUCH PURPOSE.

STARTERS AND DISCONNECTS
EQUIPMENT STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. EQUIPMENT DISCONNECTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE ON THE DRAWINGS. STARTERS SHALL BE NEMA TYPE, AND SHALL INCLUDE PHASE MONITORING FOR MOTORS 5 HP AND LARGER.

TESTING
TESTING SHALL BE PERFORMED ON THE FOLLOWING SYSTEMS SPECIFIED. ALL SYSTEMS LISTED MAY NOT BE INCLUDED IN PROJECT, REFER TO DRAWINGS FOR APPLICABLE SYSTEMS. SOIL, WASTE AND STORM DRAINAGE PIPING SHALL BE TESTED IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES. DOMESTIC WATER PIPING SHALL BE TESTED AND PROVEN WATERTIGHT UNDER A PRESSURE NOT LESS THAN THE WORKING PRESSURE OF THE SYSTEM FOR A 24 HOUR PERIOD. POTABLE WATER PIPING SYSTEM SHALL BE CHLORINATED AND STERILIZED IN ACCORDANCE WITH REQUIREMENTS OF LOCAL JURISDICTION. NATURAL GAS PIPING SHALL BE TESTED WITH AN AIR PRESSURE OF MINIMUM TWO TIMES THE DESIGN SYSTEM PRESSURE, BUT NO LESS THAN 3 PSIG, FOR A PERIOD OF 24 HOURS WITHOUT PRESSURE DROP.

BALANCING
SYSTEM BALANCING SHALL BE PERFORMED BY A CERTIFIED BALANCING CONTRACTOR. BALANCE ALL SYSTEMS INCLUDING AIRFLOW TO AND FROM ALL OPENINGS, AND PUMPED WATER SYSTEMS INCLUDING DOMESTIC WATER RECIRCULATION SYSTEMS AS APPLICABLE. MAKE ANY ADJUSTMENTS NECESSARY TO RESULT IN CONDITIONS INDICATED AND PROVIDE READJUSTMENTS TO ITEMS IN REPORT AS MAY BE REQUESTED BY ARCHITECT/ENGINEER. SUBMIT TWO COPIES OF TEST AND BALANCE REPORT FOR APPROVAL. FAN AND PUMP SYSTEMS TO BE BALANCED WITHIN PLUS OR MINUS 5 PERCENT OF LISTED VALUES. AIR INLETS AND OUTLETS TO BE BALANCED WITHIN PLUS 10 PERCENT OR MINUS 5 PERCENT OF LISTED VALUES. BALANCE REPORT TO INCLUDE:
UNIT IDENTIFICATION
MANUFACTURER AND NAMEPLATE DATA
EQUIPMENT NAMEPLATE AMPERAGE AND ACTUAL AMPERAGE
RPM (DESIGN AND ACTUAL)
FAN CFM (DESIGN AND ACTUAL)
FAN STATIC PRESSURE (DESIGN AND ACTUAL)
PUMP GPM (DESIGN AND ACTUAL)
PUMP DISCHARGE AND SUCTION PRESSURE
REGISTER, GRILLE, DIFFUSER REFERENCE NUMBER AND LOCATION
INLET/OUTLET CFM (DESIGN AND ACTUAL)
FLOW DEVICE PRESSURE DROP, CFM OR GPM
A FINAL BALANCING REPORT SHALL BE PROVIDED TO THE OWNER AFTER COMPLETION OF THE PROJECT.

CLEANING
AT THE COMPLETION OF WORK, ALL FIXTURES AND EQUIPMENT SHALL BE THOROUGHLY CLEANED AND DELIVERED IN A CONDITION SATISFACTORY TO THE ARCHITECT. ALL FILTERS SHALL BE REPLACED WITH NEW PRIOR TO OWNER ACCEPTANCE OF THE BUILDING.

OPERATIONS AND MAINTENANCE
AT MECHANICAL TURN OVER, THIS CONTRACTOR SHALL PERFORM A DETAILED OPERATIONAL WALK THROUGH OF ALL SYSTEMS AND EQUIPMENT SHOWN IN THE MECHANICAL DRAWINGS. THE WALK THROUGH SHALL INCLUDE ONE HOUR OF TRAINING AND REQUIRED MAINTENANCE FOR EACH TYPE OF EQUIPMENT AND TWO HOURS FOR THE TEMPERATURE CONTROLS OF THE BUILDING. THE MECHANICAL CONTRACTOR SHALL PROVIDE A SHEET LISTING EACH TYPE OF EQUIPMENT. IT SHALL BE SIGNED, LINE BY LINE, BY THE CLIENT INDICATING THAT THEY HAVE RECEIVED INSTRUCTION ON THE OPERATIONS AND MAINTENANCE OF THE EQUIPMENT. ADDITIONALLY, A CHECK BOX WILL ASK THE CLIENT IF THEY WISH TO HAVE THE MECHANICAL CONTRACTOR PROVIDE A QUOTE FOR MAINTENANCE FOR EACH OF THE ITEMS OR IF THEY WILL TAKE CARE OF IT ON THEIR OWN, WITH THE CLIENT'S INITIALS. A COMPLETED COPY OF THIS FORM SHALL BE INCLUDED IN THE O & M MANUALS AND SUBMITTED TO THE ENGINEER.

GENERAL MECHANICAL NOTES

- 1 THE MECHANICAL DESIGN IS BASED ON THE 2021 INTERNATIONAL MECHANICAL CODE. MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND LOCAL CODE AMENDMENTS. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
- 2 ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL – CONSTRUCTION AND INSTALLATION SHALL CONFORM TO THE CURRENT EDITION OF SMACNA OR AS REQUIRED BY ALL APPLICABLE CODES.
- 3 DIMENSIONS OF DUCTWORK SHOWN INDICATES CLEAR INSIDE DIMENSIONS – WHERE DUCT LINER IS TO BE ADDED, INCREASE THE SIZE OF SHEET METAL ACCORDINGLY.
- 4 UNLESS NOTED OTHERWISE, THE SIZE OF THE BRANCH DUCT SERVING A SINGLE DIFFUSER SHALL BE THE SAME AS THE NECK SIZE OF THE DIFFUSER SERVED. FLEXIBLE DUCTWORK SHALL NOT EXCEED 8'-0" IN LENGTH. FLEXIBLE DUCTWORK SHALL BE UL181 LISTED WITH 50/25 SMOKE/FLAME RATING, CONSISTING OF POLYESTER FILM ENCAPSULATING AN INNER CORROSION RESISTANT STEEL WIRE HELIX CORE. FLEXIBLE DUCT SHALL INCLUDE AN EXTERIOR FIBERGLASS INSULATION WITH FOIL SCRM FILM VAPOR BARRIER JACKET, R-6.
- 5 CONSTRUCT ALL CONSTANT VOLUME SUPPLY DUCTWORK TO SMACNA 2" PRESSURE CLASS.
- 6 CONSTRUCT ALL RETURN DUCTWORK TO SMACNA 2" PRESSURE CLASS.
- 7 CONSTRUCT ALL EXHAUST DUCTWORK TO SMACNA 1" PRESSURE CLASS.
- 8 MAINTAIN A MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES TO EXHAUST TERMINATIONS AND PLUMBING VENTS.
- 9 MAINTAIN A MINIMUM 3'-0" SEPARATION FROM EXHAUST TERMINATIONS TO OPERABLE WINDOWS AND DOORS.
- 10 WALL MOUNTED THERMOSTATS AND SENSORS SHALL BE INSTALLED 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. THERMOSTATS AND SENSORS LOCATED ON EXTERIOR WALL SURFACES SHALL BE PROVIDED WITH AN INSULATED SUB-BASE.
- 11 THERMOSTATS FOR COOLING AND HEATING EQUIPMENT SHALL BE 7-DAY PROGRAMMABLE TYPE, 4 PERIODS PER DAY, 10-HOUR BATTERY BACK-UP, 2-HOUR OVERRIDE, 5 DEG DEAD-BAND, HEAT/COOL/OFF/AUTO CHANGEOVER, AUTO SETBACK TO 55 DEG F (HEAT) AND 85 DEG F (COOL), LCD BACKLIT DISPLAY, HARD WIRED POWER, HARD WIRED CONTROL.
- 12 TEMPORARY HEATING: THE PERMANENT HVAC SYSTEM MAY NOT BE UTILIZED FOR HEATING UNTIL ALL GYPSUM WORK IS COMPLETED AND HAS BEEN PAINTED. IF THE PERMANENT HVAC SYSTEM IS UTILIZED DURING CONSTRUCTION, ALL DUCT INTAKES SHALL BE COVERED WITH FILTER MEDIA (MERV-8 RATING). IF EXCESSIVE DUST OR DEBRIS HAS ENTERED THE SYSTEM THEN ALL COIL AND DUCT SURFACES SHALL BE CLEANED. NEW FILTERS ARE TO BE PROVIDED JUST PRIOR TO TURNOVER TO OWNER. TEMPORARY HEATING OF THE BUILDING PRIOR TO ANY USE OF THE PERMANENT HVAC SYSTEM SHALL BE THE RESPONSIBILITY OF THE G.C.
- 13 FIRE DAMPERS SHALL BE 'B' TYPE, WITH BLADES ENTIRELY OUT OF AIRSTREAM.
- 14 HANGING, ANCHORING AND SUPPORT OF EQUIPMENT, DUCTS, PIPING AND ACCESSORIES IS DESIGN BUILD BY THE MC. THE SUPPORTS SHALL MEET CODE.
- 15 ALWAYS INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 16 REFRIGERATION PIPING FOR SYSTEMS 5 TONS AND LESS SHALL BE KIT TYPE. THE KIT SHALL BE SIZED AND PROVIDED BY THE EQUIPMENT SUPPLIER AND INSTALLED BY THE MC. THE SUCTION LINE SHALL BE INSULATED WITH MINIMUM 1 INCH CLOSED CELL FOAM INSULATION. INSULATION INSTALLED OUTSIDE OF THE BUILDING SHALL BE ADDITIONALLY ENCASED IN A UV/TEAR PROTECTIVE SLEEVE.
- 17 TEMPERATURE CONTROLS SHALL BE DESIGN BUILD, CUSTOM, FIELD FABRICATED TO MATCH CORRESPONDING EQUIPMENT. THE SYSTEM SHALL UTILIZE STAND ALONE ELECTRONIC COMPONENTS. THE CONTRACTOR SHALL PROPERLY SELECT, PROVIDE AND INSTALL SYSTEM(S) INCLUDING ALL COMPONENTS NECESSARY FOR A FULL AND COMPLETE, OPERATIONAL SYSTEM. THIS INCLUDES, BUT IS NOT LIMITED TO: LOW VOLTAGE WIRING, THERMOSTATS, DAMPER MOTORS, SOLENOIDS, RELAYS, CONTACTORS, STARTERS, TIME CLOCKS, CONTROL PANELS, SYSTEM COMMISSIONING AND OWNER TRAINING. ALL LINE VOLTAGE INTERFACING SHALL BE COORDINATED DIRECTLY WITH THE ELECTRICAL CONTRACTOR. PROVIDE SUBMITTALS ON COMPONENTS AND WIRING DIAGRAMS PRIOR TO ORDERING

INSULATION NOTES AND MECHANICAL ENERGY CODE

- 1 THE MECHANICAL DESIGN IS BASED ON THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE.
- 2 ALL SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE SEALED AIRTIGHT WITH DUCT SEALANT ALONG ALL SEAMS AND JOINTS.
- 3 SEE HVAC INSULATION SCHEDULE FOR DUCT INSULATION REQUIREMENTS.

CITY OF FORT COLLINS AMENDMENTS AND GREEN CODE REQUIREMENTS

- 1 LOW-VOLATILE ORGANIC COMPOUND (VOC) DUCT INSULATION ADHESIVE SHALL BE USED: DESIGN POLYMERICS 2501, 2502 OR APPROVED EQUAL.
- 2 LOW-VOLATILE ORGANIC COMPOUND (VOC) DUCT SEALANT SHALL BE USED: DESIGN POLYMERICS 1010, 1015 OR APPROVED EQUAL.
- 3 LOW-VOLATILE ORGANIC COMPOUND (VOC) FIRE CAULK SHALL BE USED: 3M FIRE BARRIER 1C 15WB+, FD 150+, CP 25WB+ OR APPROVED EQUAL.
- 4 PROTECT HVAC EQUIPMENT FROM CONSTRUCTION DUST AND DEBRIS. DO NOT OPERATE HVAC EQUIPMENT DURING CONSTRUCTION AND SEAL ALL DUCT OPENINGS WITH PLASTIC.
- 5 A CONSTRUCTION WASTE MANAGEMENT PLAN WILL BE IMPLEMENTED REQUIRING RECYCLING OF NONHAZARDOUS CONSTRUCTION DEBRIS. COORDINATE WITH G.C. FOR RECYCLING OF ITEMS RELATED TO THE MECHANICAL SCOPE OF WORK.
- 6 EXTERIOR AND INTERIOR LOCAL DESIGN TEMPERATURES (DEG F):
•WINTER OUTDOOR DESIGN DB.....6
•WINTER INDOOR DESIGN DB.....72
•SUMMER OUTDOOR DESIGN DB 91
•SUMMER INDOOR DESIGN DB 75
•SUMMER OUTDOOR DESIGN WB 62
•SUMMER INDOOR DESIGN WB 62
•CLIMATE ZONE 5B

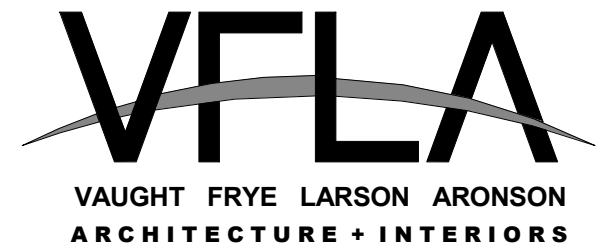
MECHANICAL DRAWING INDEX

SHEET NUMBER	SHEET NAME
M0.1	MECHANICAL NOTES, LEGEND, INDEX
M0.2	MECHANICAL NOTES, LEGEND, DETAILS, COMCHECK
M2.1	MECHANICAL BASEMENT FLOOR PLANS
M2.2	MECHANICAL FIRST FLOOR PLANS
M2.3	MECHANICAL SECOND FLOOR PLANS
M2.4	MECHANICAL ROOF PLAN
M8.1	MECHANICAL SCHEDULES
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M8.3	MECHANICAL SCHEDULES
M8.4	MECHANICAL SCHEDULES
M8.5	MECHANICAL SCHEDULES
M8.6	MECHANICAL SCHEDULES
M8.7	MECHANICAL SCHEDULES
M8.8	MECHANICAL SCHEDULES
M8.9	MECHANICAL SCHEDULES
M8.10	MECHANICAL SCHEDULES
M8.11	MECHANICAL SCHEDULES

PROJECT NUMBER: 24-203-KML

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LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES

MECHANICAL ENGINEER:
INTEGRATED MEP

PLUMBING ENGINEER:
INTEGRATED MEP

ELECTRICAL ENGINEER:
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DESCRIPTION	DATE
DESIGN DEVELOPMENT	04-01-2025
ISSUED FOR PERMIT	06-11-2025

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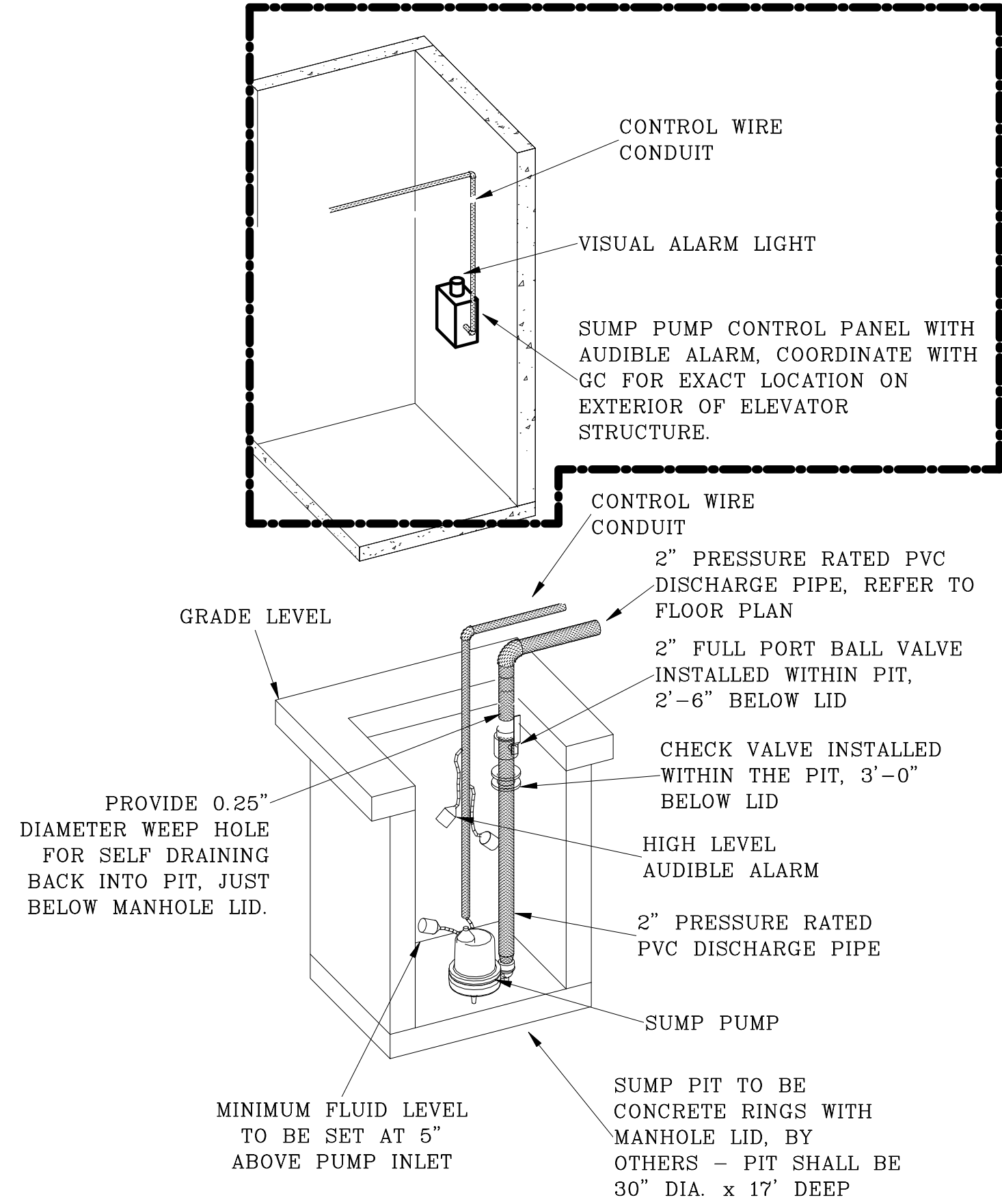
MECHANICAL NOTES, LEGEND, INDEX

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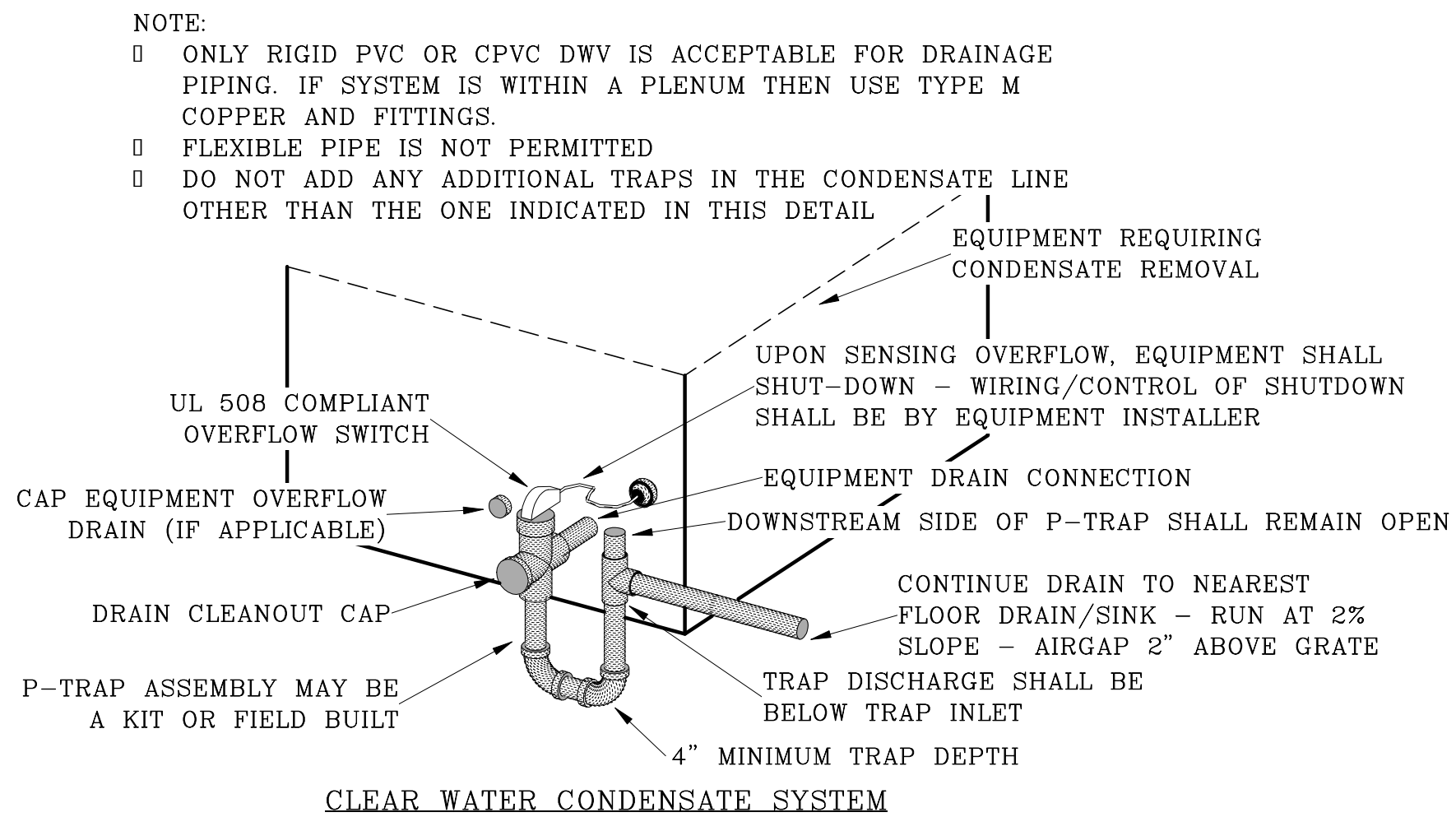
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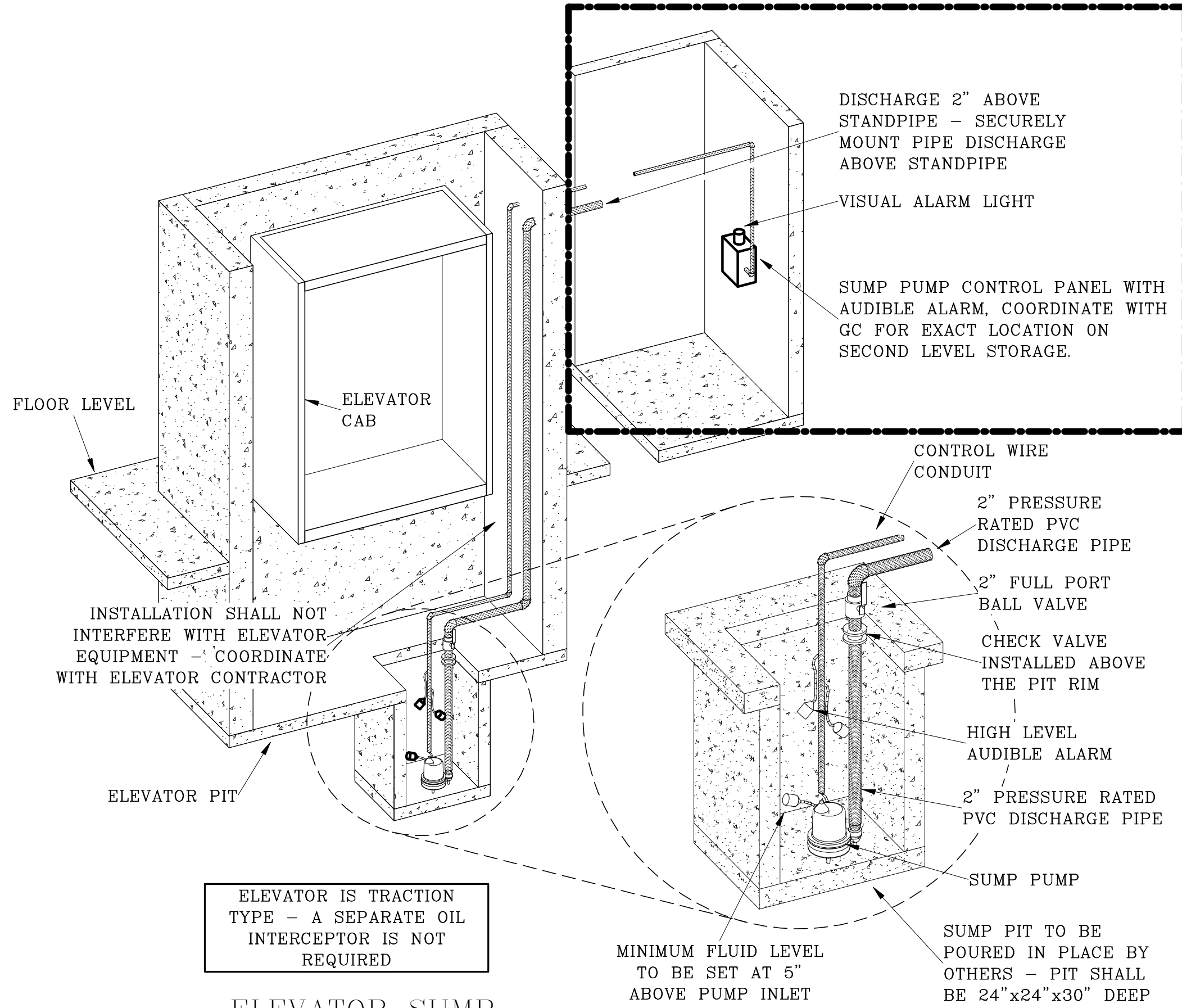
STORM SUMP
PUMP DETAIL

SCALE:
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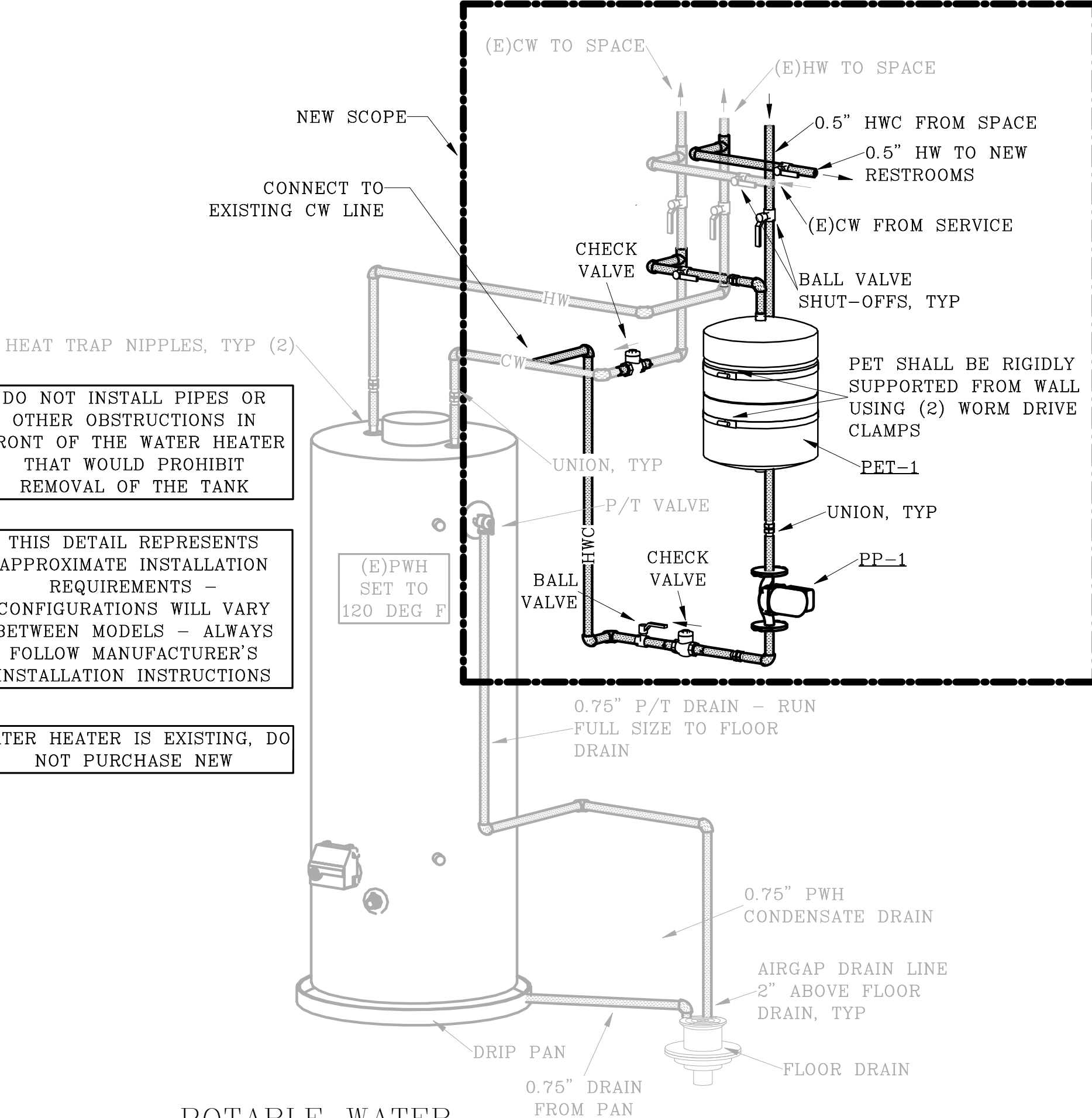
CONDENSATE DRAIN
DETAIL

SCALE:
N/A



ELEVATOR SUMP
PUMP DETAIL

SCALE:
N/A



POTABLE WATER
HEATER DETAIL

SCALE:
N/A

GENERAL PLUMBING NOTES

- THE PLUMBING DESIGN IS BASED ON THE 2021 INTERNATIONAL PLUMBING CODE. PLUMBING WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND LOCAL CODE AMENDMENTS. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
- WASTE AND VENT PIPING BELOW SLAB SHALL BE:
> SCHEDULE 40, DWV, PLASTIC PIPE AND FITTINGS.
- WASTE AND VENT PIPING ABOVE SLAB (NOT IN RETURN AIR PLENUM) SHALL BE:
> SCHEDULE 40, DWV, PLASTIC PIPE AND FITTINGS.
- POTABLE WATER PIPING BELOW GRADE SHALL BE TYPE K, SOFT DRAWN, COPPER WITHOUT JOINTS.
- POTABLE WATER PIPING 2" AND SMALLER SHALL BE TYPE-L COPPER. FITTINGS SHALL BE TYPE-L COPPER.
- PUSH-TO-CONNECT PLUMBING FITTINGS (I.E. SHARKBITE OR SIMILAR) AND PULLED TEE FITTINGS WILL NOT BE ACCEPTED.
- POTABLE WATER VALVES SHALL BE FULL PORT, BALL TYPE.
- GAS PIPE 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL. FITTINGS SHALL BE MALLEABLE SCREW TYPE, OR COMPRESSION FITTED. VIEGA MEGA PRESS OR APPROVED EQUAL.
- INSTALL UNION, GAS COCK AND FULL SIZE 6" LONG DIRT LEG FOR ALL GAS FIRED EQUIPMENT.
- INSTALL FULL SIZE CONDENSATE AND TRAP FOR ALL COOLING COILS. DISCHARGE FULL SIZE DRAIN TO MOP SINK OR LAVATORY P-TRAP TAILPIECE AND TO ROOF FOR ROOFTOP UNITS.
- HANGING, ANCHORING AND SUPPORT OF EQUIPMENT, PIPING AND ACCESSORIES IS DESIGN BUILD BY THE PC. THE SUPPORTS SHALL MEET CODE.
- ALWAYS INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PRIOR TO BUILDING TURNOVER, THE POTABLE WATER SYSTEM SHALL BE CLEANED AND DISINFECTED PER IPC SECTION 610. THE SYSTEM SHALL BE FLUSHED, CHLORINATED AND PURGED. REPEAT UNTIL THE SYSTEM HAS BEEN PROVEN TO PASS BACTERIAL EXAMINATION. A REPORT SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION.

INSULATION NOTES AND PLUMBING ENERGY CODE

- THE PLUMBING DESIGN IS BASED ON THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE.
- COMMERCIAL POTABLE HOT WATER PIPING, ≤ 140 DEG F, SHALL BE INSULATED USING FIBERGLASS INSULATION, WITH ALL SERVICE JACKET, HAVING MAXIMUM 'K' FACTOR OF 0.27. INSULATION THICKNESS SHALL BE:
* 1" FOR 1.5" PIPE AND SMALLER
* 1.5" FOR PIPES LARGER THAN 1.5"
- COMMERCIAL POTABLE HOT WATER RECIRCULATION PIPING, ≤ 140 DEG F, SHALL BE INSULATED USING FIBERGLASS INSULATION, WITH ALL SERVICE JACKET, HAVING MAXIMUM 'K' FACTOR OF 0.27. INSULATION THICKNESS SHALL BE:
* 1" FOR 1.5" PIPE AND SMALLER
* 1.5" FOR PIPES LARGER THAN 1.5"
- COMMERCIAL POTABLE COLD WATER PIPING SHALL BE INSULATED USING FIBERGLASS INSULATION WITH ALL SERVICE JACKET HAVING MAXIMUM 'K' FACTOR OF 0.27. INSULATION THICKNESS SHALL BE 0.5". DO NOT REMOVE THIS ITEM FROM THE PROJECT AS IT IS REQUIRED FOR CONDENSATE CONTROL.

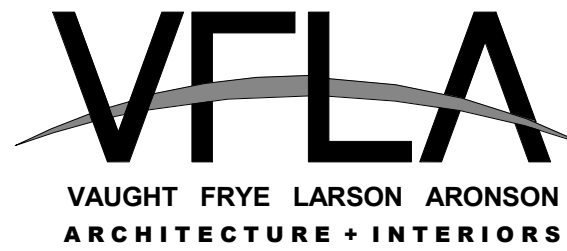
PLUMBING LEGEND:

—CW—	COLD WATER PIPING	—○—	BALL VALVE
—HW—	HOT WATER PIPING	—X—	GATE VALVE
—HWC—	HOT WATER CIRC PIPING	—F—	GAS COCK
—TW—	TEMPERED WATER PIPING	—S—	PRESS. RED. VALVE
—140—	140° WATER PIPING	—T & P—	T & P RELIEF VALVE
—180—	180° WATER PIPING	—SOL—	SOLENOID VALVE
---V---	VENT PIPING	—BAL—	BALANCE VALVE
—W—	WASTE PIPING	—CHK—	CHECK VALVE
—GW—	GREASE WASTE PIPING	—UN—	UNION
—SOW—	SAND/OIL WASTE PIPING	—CAP—	PIPE CAP
—RD—	ROOF DRAIN PIPING	—CONT—	PIPE CONTINUATION
—ORD—	OVERFLOW ROOF DRAIN	—ROOF—	ROOF DRAIN
—CD—	CONDENSATE PIPING	—CLEAN—	FLOOR/GRADE CLEANOUT
—G—	NATURAL GAS PIPING	—FLOOR—	FLOOR DRAIN/SINK
—F—	FIRE PIPING	—WALL—	WALL CLEANOUT
—LP—	PROPANE PIPING	—PIPE—	PIPE ON THIS LEVEL (SOLID)
—VAC—	VACUUM PIPING	—PIPE—	PIPE ABOVE/BELOW THIS LEVEL (DASHED)
—CA—	COMPRESSED AIR PIPING	—PIPE—	PIPE TO BE REMOVED
—PIPE ELBOW DOWN—		—PIPE—	
—PIPE ELBOW UP—		—PIPE—	
—PIPE TEE UP—		—PIPE—	
—PIPE TEE DOWN—		—PIPE—	

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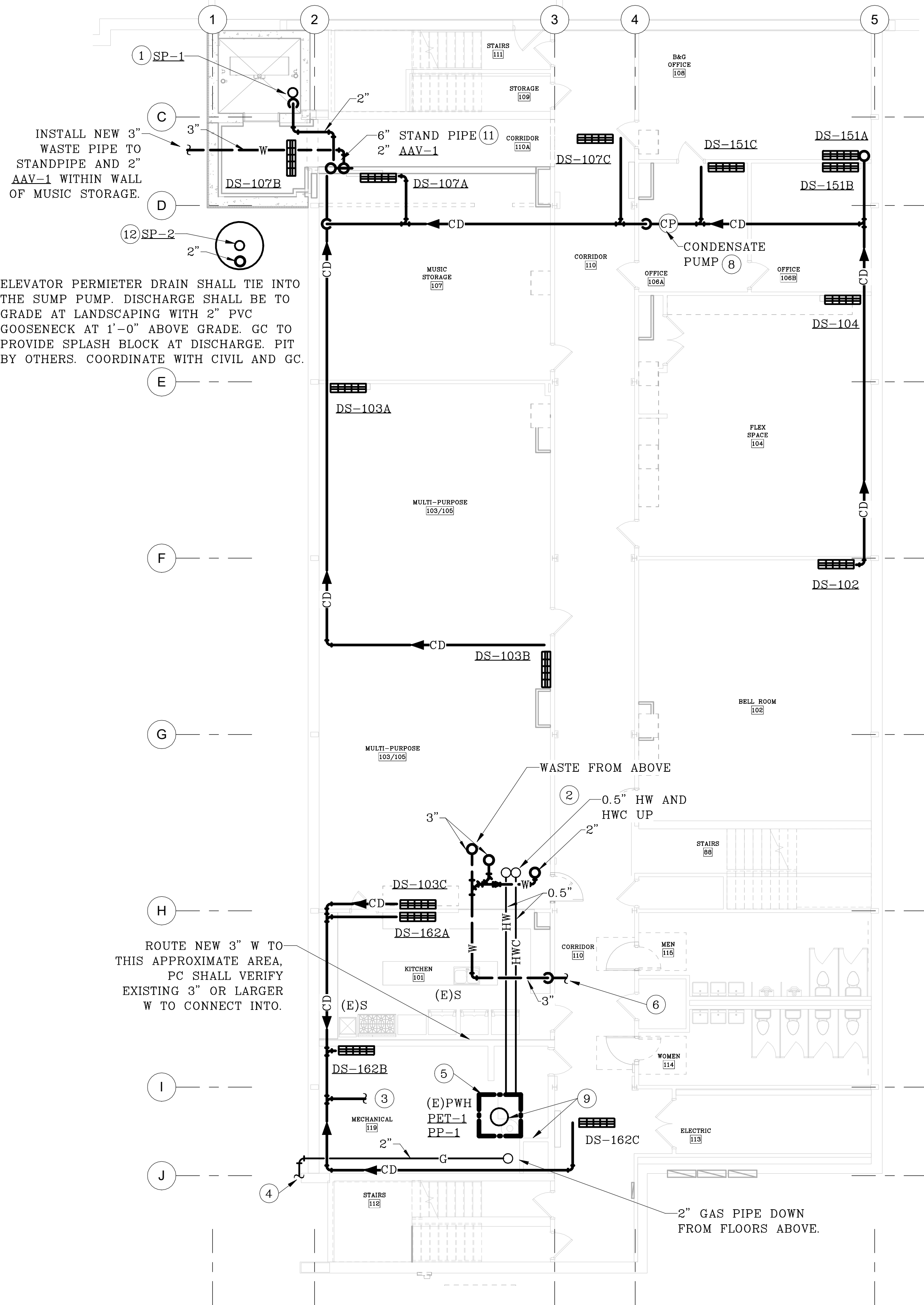
MECHANICAL NOTES, LEGEND, DETAILS, COMCHECK

DRAWING NUMBER:

M0.2

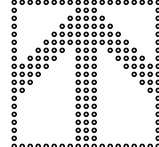
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PLUMBING EDUCATION
WING BASEMENT
FLOOR PLAN

1/8" = 1'-0"



GENERAL DEMO NOTES:

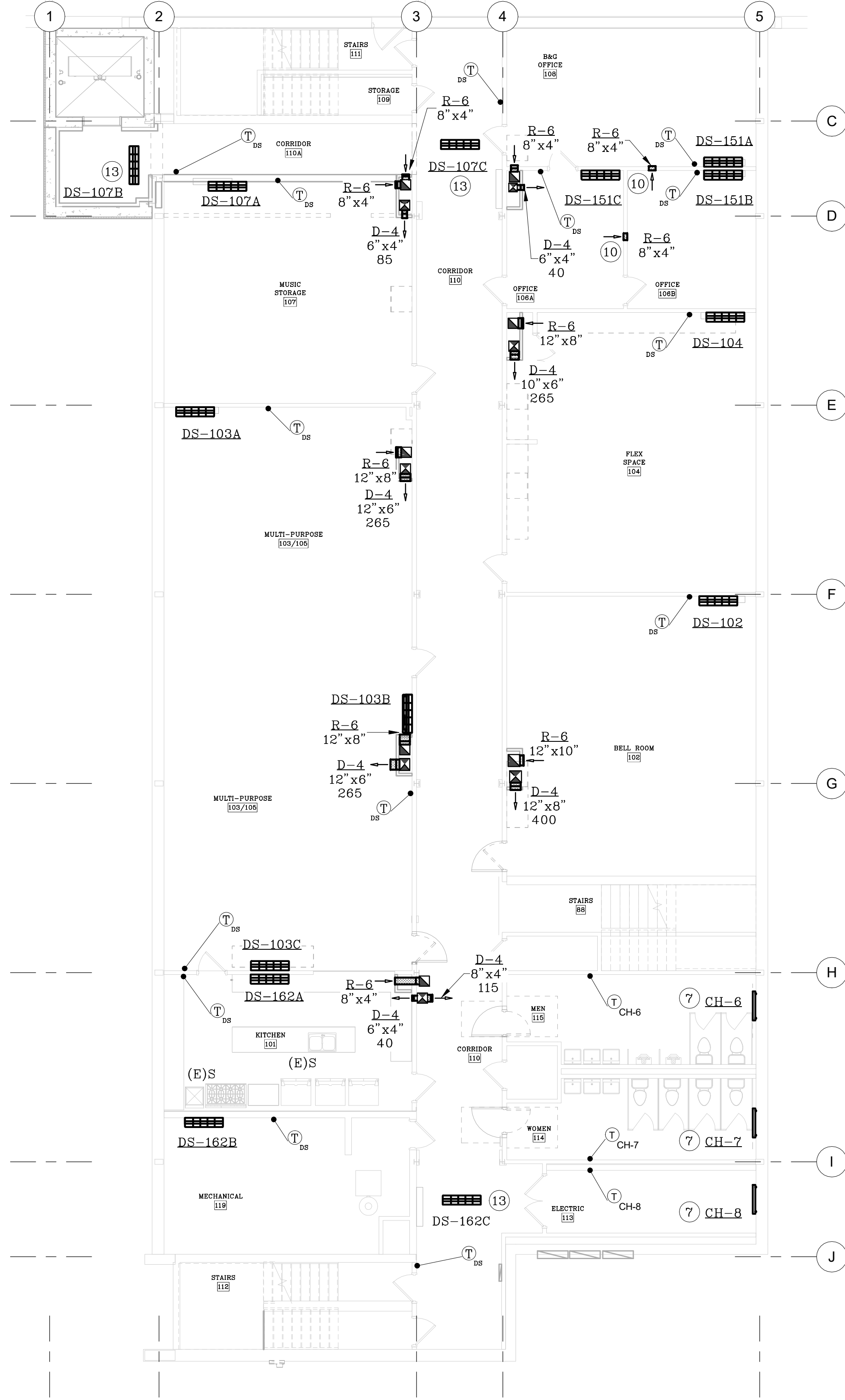
1. EXISTING BOILERS AND ALL PIPING, INCLUDING FLUES WITHIN MECHANICAL ROOM SHALL BE REMOVED, CUT AND CAP PIPING AT FINISHED SURFACES AND ABANDON.
2. ALL EXISTING HYDRONIC RADIATORS AND ASSOCIATED HYDRONIC PIPING AND ACCESSORIES IN EDUCATION WING SHALL BE REMOVED. MC SHALL REMOVE ANY FLUID IN SYSTEM AT MECHANICAL ROOM.
3. EXISTING PTACS AND WINDOW A/C UNITS SHALL BE REMOVED, COORDINATE WITH GC TO PATCH OPENINGS.
4. EXISTING RADIATORS IN NARTHEX RESTROOMS SHALL REMAIN AS-IS. MC SHALL FIELD VERIFY THAT THEY ARE NOT ON THE HYDRONIC BOILER SYSTEM TO BE REMOVED. CONTACT THIS ENGINEERING OFFICE WITH ANY MAJOR DISCREPANCIES.

GENERAL NOTES:

- A. ALL CONDENSATE PIPING IS 0.75" IN SIZE, UNLESS NOTED OTHERWISE.
- B. ALL SUPPLY AND EXHAUST PENETRATIONS THROUGH FLOORS WILL REQUIRE FIRE DAMPERS.
- C. ALL REFRIGERANT LINES SHALL PENETRATE INTO BUILDING FROM EXTERIOR ROOF WITHIN FIRST FLOOR CEILING SPACE OF EDUCATION WING FROM EXTERIOR WALL. COORDINATE ROUTING AND PENETRATIONS WITH GC. MC SHALL PLAN ALL REFRIGERANT LINESET ROUTING AND REQUIREMENTS WITH GC.
- D. IMC 1109.2.5 REQUIRES FIRE RESISTANT RATED SHAFTS FOR REFRIGERANT GROUPS OTHER THAN A1 AND THAT PENETRATE 2 OR MORE FLOORS.
- E. MOUNT HIGH WALL UNITS AT 7'-0" A.F.F.
- F. ALL EXISTING PLUMBING FIXTURES SHALL REMAIN AS-IS, UNLESS NOTED OTHERWISE.
- G. INSTALL ALL OUTDOOR MOUNTED HEAT PUMPS ON 2'-0" STAND. MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES.
- H. ROUTE ALL PIPING WITHIN WEB OF BAR JOISTS, NOT BELOW.
- I. ALL RETURN GRILLES SHALL BE INSTALLED LOW ON WALL AND SUPPLY DIFFUSERS HIGH ON WALL.
- J. ALL INDOOR DUCTLESS UNITS FURNISHED WITH CONDENSATE BY MC, PLUMBED BY PC. CONDENSATE PUMP INDICATED ON PLANS AND PLUMBING SCHEDULE (CP-1) IS SUPPLEMENTAL AND SHALL BE FURNISHED AND INSTALLED BY PC.
- K. ALL DUCTLESS HIGH WALLS ARE TO BE INSTALLED IN CLAEIN PROFESSIONAL MANNER. ALL REFRIGERANT LINESETS, CONDENSATE, POWER AND CONTROL WIRING SHALL BE ROUTED THROUGH BACK PANEL AND NOTE VISIBLE WITHIN THE OCCUPIED SPACE.
- L. EXISTING RESTROOM EXHAUST SYSTEMS SHALL REMAIN AS-IS.

FLAG NOTES: (ALL PLANS THIS SHEET)

- 1 REFER TO "ELEVATOR SUMP PUMP DETAIL" ON SHEET M0.2 FOR MORE INFORMATION. ROUTE DISCHARGE PIPE TO DRAIN BOX INDICATED ON PLANS.
- 2 WASTE AND HW/HWC OF SIZE INDICATED UP TO FLOORS ABOVE TO SERVE NEW RESTROOMS.
- 3 ROUTE CONDENSATE DRAIN OF SIZE INDICATED TO NEAREST FLOOR DRAIN AND TERMINATE WITH 2" AIR GAP.
- 4 CONNECT NEW 2" GAS PIPE JUST DOWNSTREAM OF EXISTING GAS METER.
- 5 REFER TO "POTABLE WATER HEATER DETAIL" ON SHEET M0.2 FOR MORE INFORMATION. (E)PWH SHALL REMAIN.
- 6 ROUTE 3" WASTE DOWN INTO WALL AND BELOW GRADE IN CORRIDOR AND CONNECT INTO EXISTING 4" OR LARGER WASTE.
- 7 INSTALL COVE HEATER 6" BELOW CEILING, COORDINATE EXACT LOCATION WITH GC AND EXISTING CONDITIONS.
- 8 INSTALL CONDENSATE PUMP IN THIS APPROXIMATE LOCATION TO LIFT CONDENSATE UP OVER BEAM IN OPEN SPACE BETWEEN FLOOR AND BEAM.
- 9 EXISTING FLUE PIPING FOR (E)PWH SHALL BE REWORKED AND PIPED TO EXTERIOR THROUGH EXISTING FLUE CHIMNEY. RE-LINE FLUE PIPE THROUGH MASONRY CHIMNEY. COORDINATE WITH GC.
- 10 INSTALL BACK-TO-BACK GRILLES OF SIZE INDICATED FOR RETURN AIR PATH.
- 11 DISCHARGE 2" PUMPED LINE AND 0.75" CONDENSATE PIPE INTO 6" STANDPIPE WITHIN 8" WALL. COORDINATE WITH GC TO PROVIDE ACCESS PANEL.
- 12 REFER TO STORM SUMP PUMP DETAIL FOR MORE INFORMATION.
- 13 COORDINATE WITH STRUCTURE TO VERIFY CASSETTE SYSTEM WILL FIT BETWEEN BAR JOISTS PRIOR TO PURCHASE.



HVAC EDUCATION WING
BASEMENT FLOOR PLAN

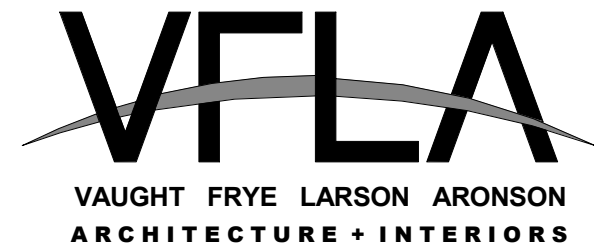
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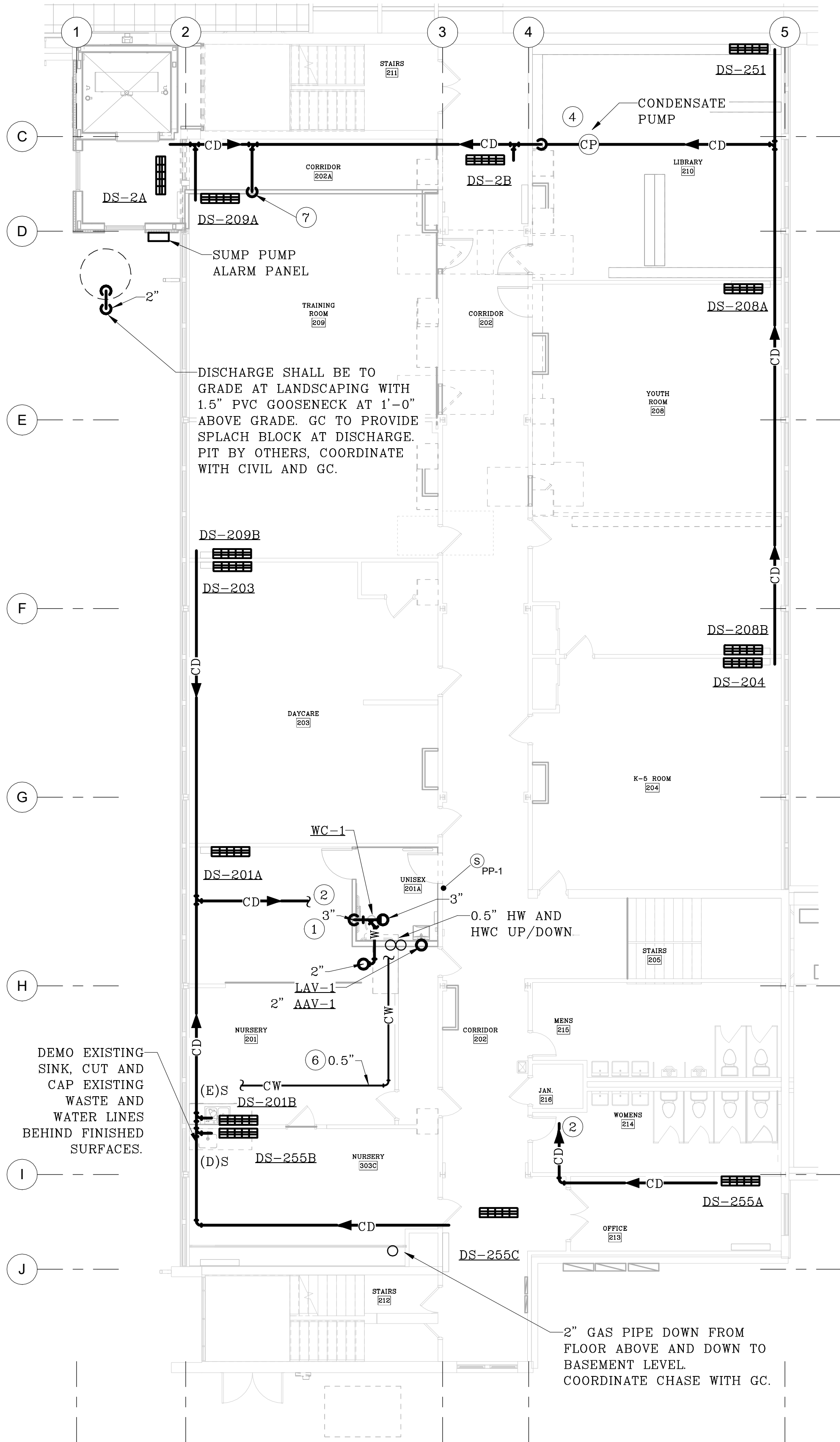
MECHANICAL BASEMENT FLOOR PLANS

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M2.1

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PLUMBING EDUCATION
WING FIRST FLOOR
PLAN

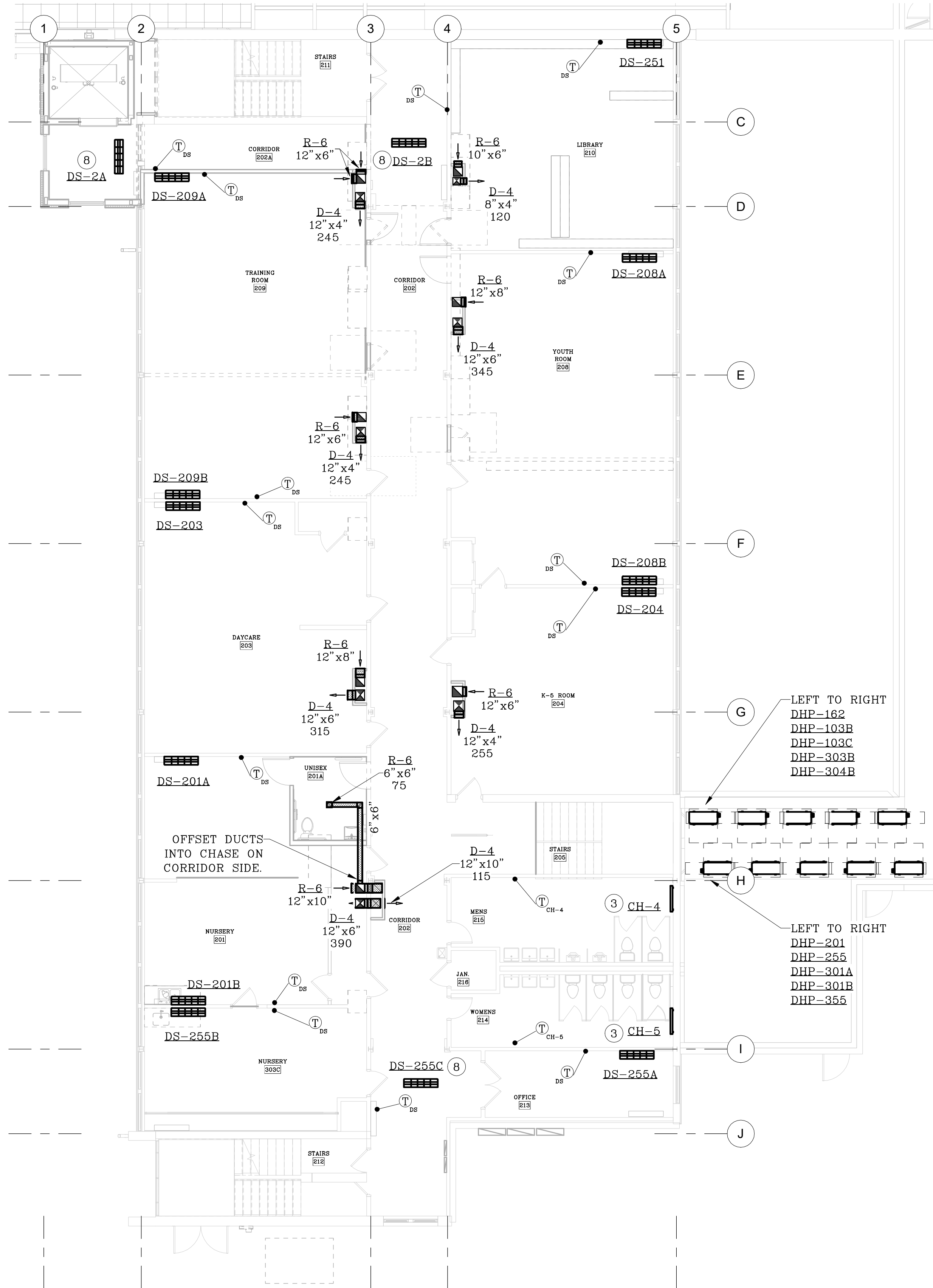
FIXTURE ROUGH-IN SCHEDULE		
FIXTURE TYPE	COLD WATER	HOT WATER
WATER CLOSET (TANK TYPE)	0.5"	-
LAVATORY	0.5"	0.5"

GENERAL NOTES:

- ALL CONDENSATE PIPING IS 0.75" IN SIZE, UNLESS NOTED OTHERWISE.
- ALL SUPPLY AND EXHAUST PENETRATIONS THROUGH FLOORS WILL REQUIRE FIRE DAMPERS.
- ALL REFRIGERANT LINES SHALL PENETRATE INTO BUILDING FROM EXTERIOR ROOF WITHIN FIRST FLOOR CEILING SPACE OF EDUCATION WING FROM EXTERIOR WALL. COORDINATE ROUTING AND PENETRATIONS WITH GC. MC SHALL PLAN ALL REFRIGERANT LINESET ROUTING AND REQUIREMENTS WITH GC.
- IMC 1109.2.5 REQUIRES FIRE RESISTANT RATED SHAFTS FOR REFRIGERANT GROUPS OTHER THAN A1 AND THAT PENETRATE 2 OR MORE FLOORS.
- MOUNT HIGH WALL UNITS AT 7'-0" A.F.F.
- ALL EXISTING PLUMBING FIXTURES SHALL REMAIN AS-IS, UNLESS NOTED OTHERWISE.
- INSTALL ALL OUTDOOR MOUNTED HEAT PUMPS ON 2'-0" STAND. MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES.
- ROUTE ALL PIPING WITHIN WEB OF BAR JOISTS, NOT BELOW.
- ALL RETURN GRILLES SHALL BE INSTALLED LOW ON WALL AND SUPPLY DIFFUSERS HIGH ON WALL.
- ALL INDOOR DUCTLESS UNITS FURNISHED WITH CONDENSATE BY MC, PLUMBED BY PC. CONDENSATE PUMP INDICATED ON PLANS AND PLUMBING SCHEDULE (CP-1) IS SUPPLEMENTAL AND SHALL BE FURNISHED AND INSTALLED BY PC.
- ALL DUCTLESS HIGH WALLS ARE TO BE INSTALLED IN CLAE PROFESSIONAL MANNER. ALL REFRIGERANT LINESETS, CONDENSATE, POWER AND CONTROL WIRING SHALL BE ROUTED THROUGH BACK PANEL AND NOTE VISIBLE WITHIN THE OCCUPIED SPACE.
- EXISTING RESTROOM EXHAUST SYSTEMS SHALL REMAIN AS-IS.

FLAG NOTES: (ALL PLANS THIS SHEET)

- WASTE AND HW/HWC OF SIZE INDICATED UP TO FLOORS ABOVE TO SERVE NEW RESTROOMS.
- ROUTE CONDENSATE DRAIN OF SIZE INDICATED TO LAV TAIL PIECE OR UTILITY SINK AND TERMINATE WITH 2" AIR GAP.
- INSTALL COVE HEATER 6" BELOW CEILING, COORDINATE EXACT LOCATION WITH GC AND EXISTING CONDITIONS.
- INSTALL CONDENSATE PUMP IN THIS APPROXIMATE LOCATION TO PUMP CONDENSATE UP IN BETWEEN CAVITY SPACE BETWEEN FLOOR AND BEAM.
- REFER TO "LAV WATER PIPING DETAIL" ON SHEET M2.4 FOR MORE INFORMATION.
- ROUTE 0.5" CW FROM EXISTING SINK TO NEW LAV AND WATER CLOSET AS INDICATED, BRANCH 0.5" CW TO EACH FIXTURE.
- ROUTE CONDENSATE DRAINS TO COMBINE INTO (1) 1" DRAIN AND ROUTE DOWN TO BASEMENT LEVEL.
- COORDINATE WITH STRUCTURE TO VERIFY CASSETTE SYSTEM WILL FIT BETWEEN BAR JOISTS PRIOR TO PURCHASE.

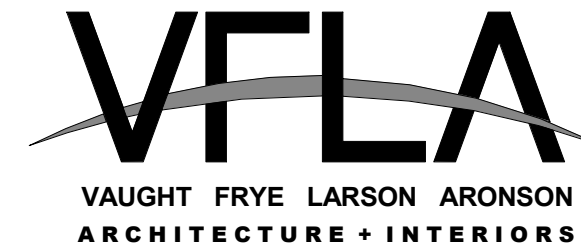


HVAC EDUCATION WING
FIRST FLOOR PLAN

PROJECT NUMBER: 24-203-KML

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LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES

MECHANICAL ENGINEER:
INTEGRATED MEP

PLUMBING ENGINEER:
INTEGRATED MEP

ELECTRICAL ENGINEER:
APS, INC.



ISSUED FOR PERMIT

DESCRIPTION	DATE
DESIGN DEVELOPMENT	04-01-2025
ISSUED FOR PERMIT	06-11-2025

SEAL:



11 JUN 2025

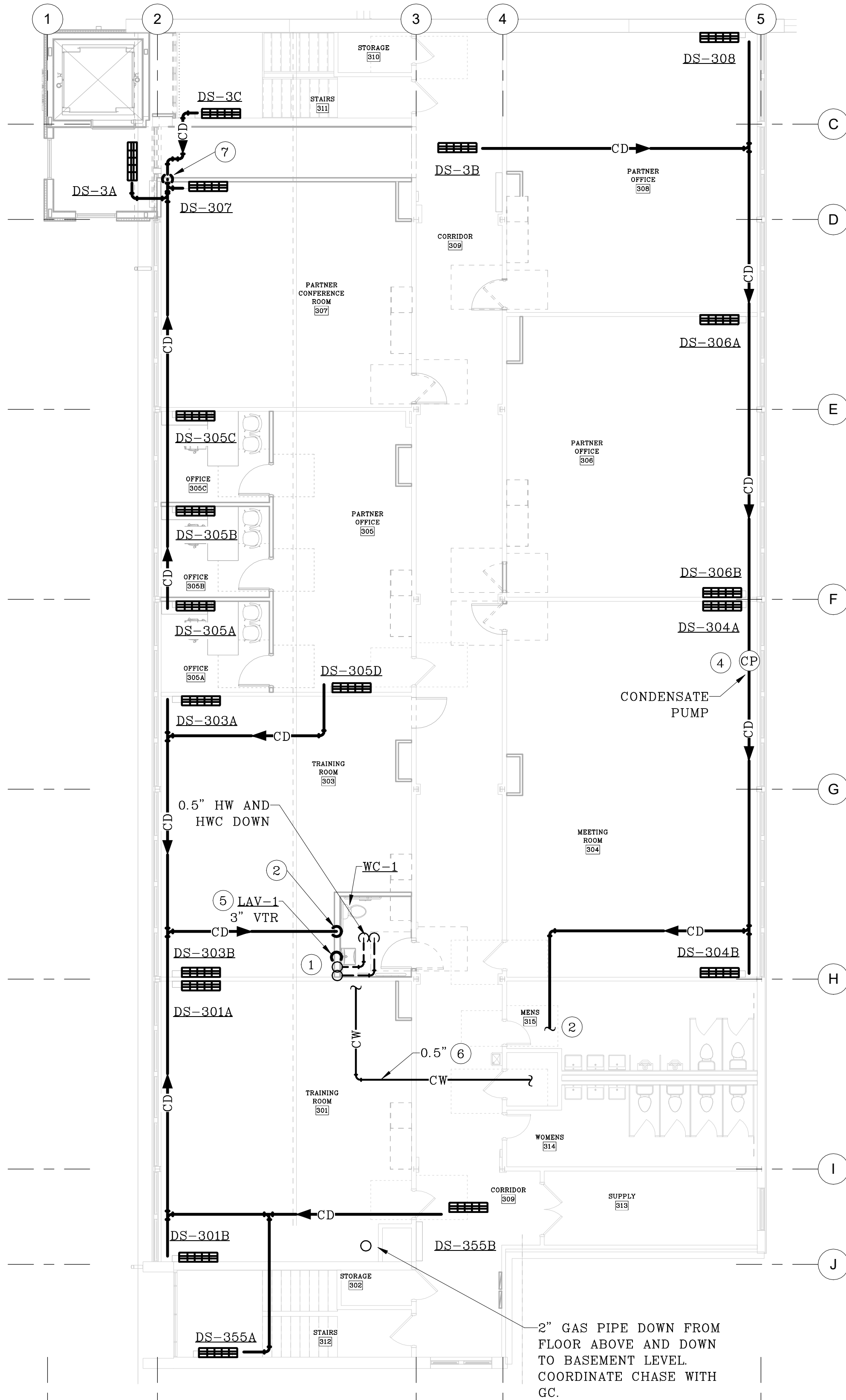
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MECHANICAL FIRST
FLOOR PLANS

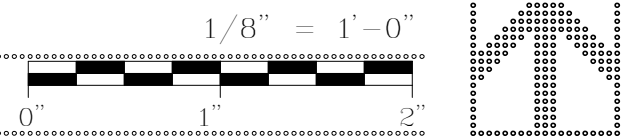
DRAWING NUMBER:

M2.2

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PLUMBING EDUCATION
WING SECOND FLOOR
PLAN



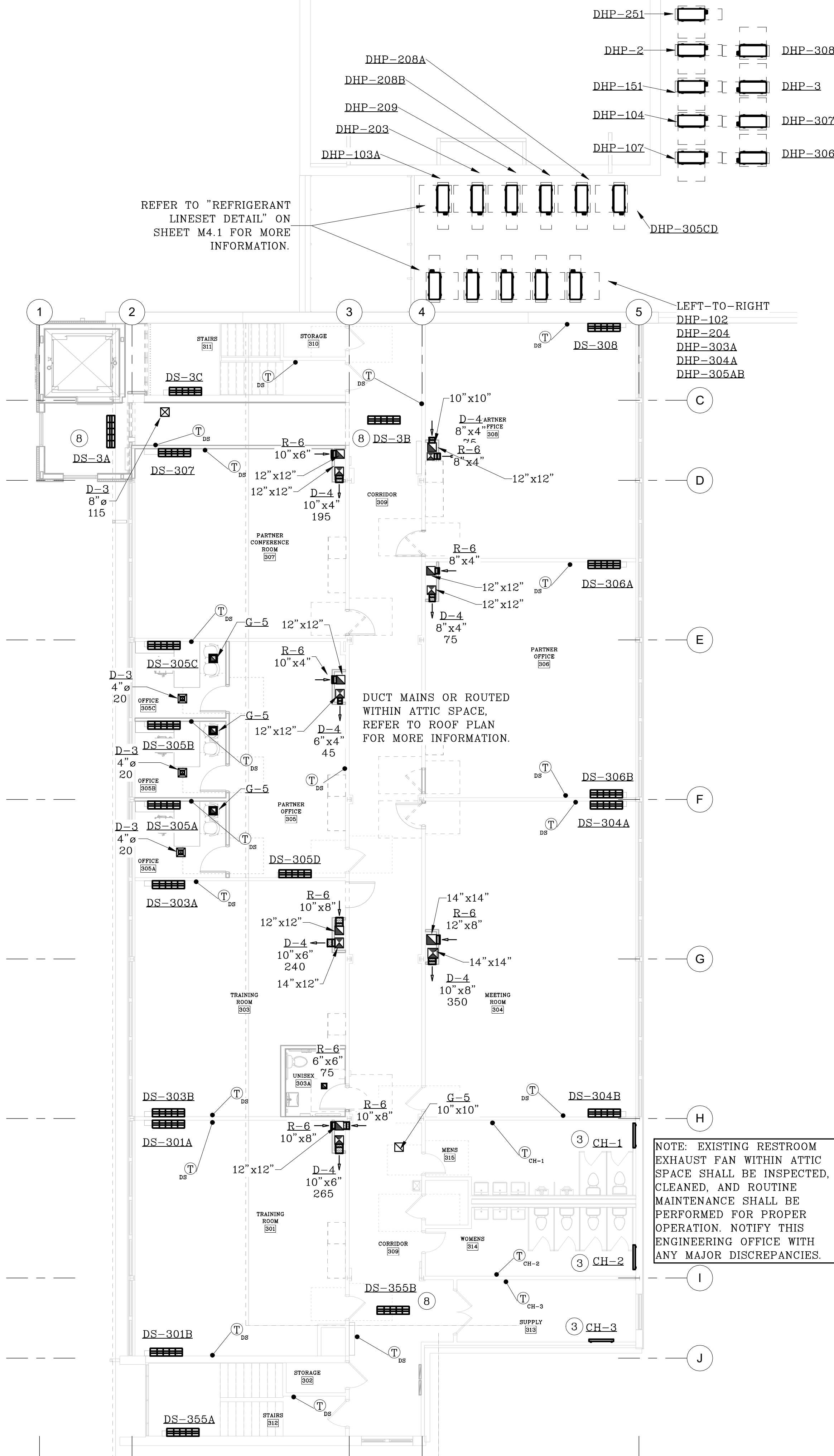
FIXTURE ROUGH-IN SCHEDULE		
FIXTURE TYPE	COLD WATER	HOT WATER
WATER CLOSET (TANK TYPE)	0.5"	—
LAVATORY	0.5"	0.5"

GENERAL NOTES:

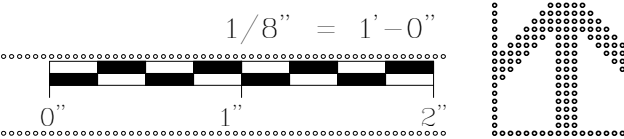
- ALL CONDENSATE PIPING IS 0.75" IN SIZE, UNLESS NOTED OTHERWISE.
- ALL SUPPLY AND EXHAUST PENETRATIONS THROUGH FLOORS WILL REQUIRE FIRE DAMPERS.
- ALL REFRIGERANT LINES SHALL PENETRATE INTO BUILDING FROM EXTERIOR ROOF WITHIN FIRST FLOOR CEILING SPACE OF EDUCATION WING FROM EXTERIOR WALL. COORDINATE ROUTING AND PENETRATIONS WITH GC. MC SHALL PLAN ALL REFRIGERANT LINESET ROUTING AND REQUIREMENTS WITH GC.
- IMC 1109.2.5 REQUIRES FIRE RESISTANT RATED SHAFTS FOR REFRIGERANT GROUPS OTHER THAN A1 AND THAT PENETRATE 2 OR MORE FLOORS.
- MOUNT HIGH WALL UNITS AT 7'-0" A.F.F.
- ALL EXISTING PLUMBING FIXTURES SHALL REMAIN AS-IS, UNLESS NOTED OTHERWISE.
- INSTALL ALL OUTDOOR MOUNTED HEAT PUMPS ON 2'-0" STAND. MAINTAIN ALL MANUFACTURER REQUIRED CLEARANCES.
- ROUTE ALL PIPING WITHIN WEB OF BAR JOISTS, NOT BELOW.
- ALL RETURN GRILLES SHALL BE INSTALLED LOW ON WALL AND SUPPLY DIFFUSERS HIGH ON WALL.
- ALL INDOOR DUCTLESS UNITS FURNISHED WITH CONDENSATE BY MC, PLUMBED BY PC. CONDENSATE PUMP INDICATED ON PLANS AND PLUMBING SCHEDULE (CP-1) IS SUPPLEMENTAL AND SHALL BE FURNISHED AND INSTALLED BY PC.
- ALL DUCTLESS HIGH WALLS ARE TO BE INSTALLED IN CLAEEN PROFESSIONAL MANNER. ALL REFRIGERANT LINESETS, CONDENSATE, POWER AND CONTROL WIRING SHALL BE ROUTED THROUGH BACK PANEL AND NOTE VISIBLE WITHIN THE OCCUPIED SPACE.
- EXISTING RESTROOM EXHAUST SYSTEMS SHALL REMAIN AS-IS.

FLAG NOTES: (ALL PLANS THIS SHEET)

- WASTE AND HW/HWC OF SIZE INDICATED UP FROM FLOORS BELOW TO SERVE NEW RESTROOMS.
- ROUTE CONDENSATE DRAIN OF SIZE INDICATED TO LAV TAIL PIECE OR UTILITY SINK AND TERMINATE WITH 2" AIR GAP.
- INSTALL COVE HEATER 6" BELOW CEILING, COORDINATE EXACT LOCATION WITH GC AND EIXSTING CONDITIONS.
- INSTALL CONDENSATE PUMP IN THIS APPROXIMATE LOCATION TO PUMP CONDENSATE UP IN BETWEEN CAVITY SPACE BETWEEN FLOOR AND BEAM.
- REFER TO "LAV WATER PIPING DETAIL" ON SHEET M2.1 FOR MORE INFORMATION.
- ROUTE 0.5" CW FROM EXISTING SINK TO NEW LAV AND WATER CLOSET AS INDICATED.
- ROUTE CONDENSATE DRAINS TO COMBINE INTO (1) 1" DRAIN AND ROUTE DOWN TO BASEMENT LEVEL.
- COORDINATE WITH STRUCTURE TO VERIFY CASSETTE SYSTEM WILL FIT BETWEEN BAR JOISTS PRIOR TO PURCHASE.



HVAC EDUCATION WING
SECOND FLOOR PLAN

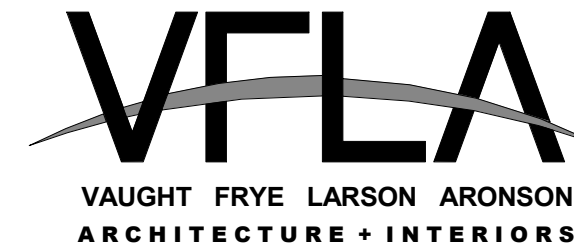


NOTE: EXISTING RESTROOM EXHAUST FAN WITHIN ATTIC SPACE SHALL BE INSPECTED, CLEANED, AND ROUTINE MAINTENANCE SHALL BE PERFORMED FOR PROPER OPERATION. NOTIFY THIS ENGINEERING OFFICE WITH ANY MAJOR DISCREPANCIES.

PROJECT NUMBER: 24-203-KML

FIRST PRES CHURCH - EDUCATION WING RENOVATION

532 S COLLEGE AVE
FORT COLLINS, CO 80524



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108 East Lincoln Way, Cheyenne, WY 82001 | 307.635.5710
www.VFLA.com

IN ASSOCIATION WITH:

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES

MECHANICAL ENGINEER:
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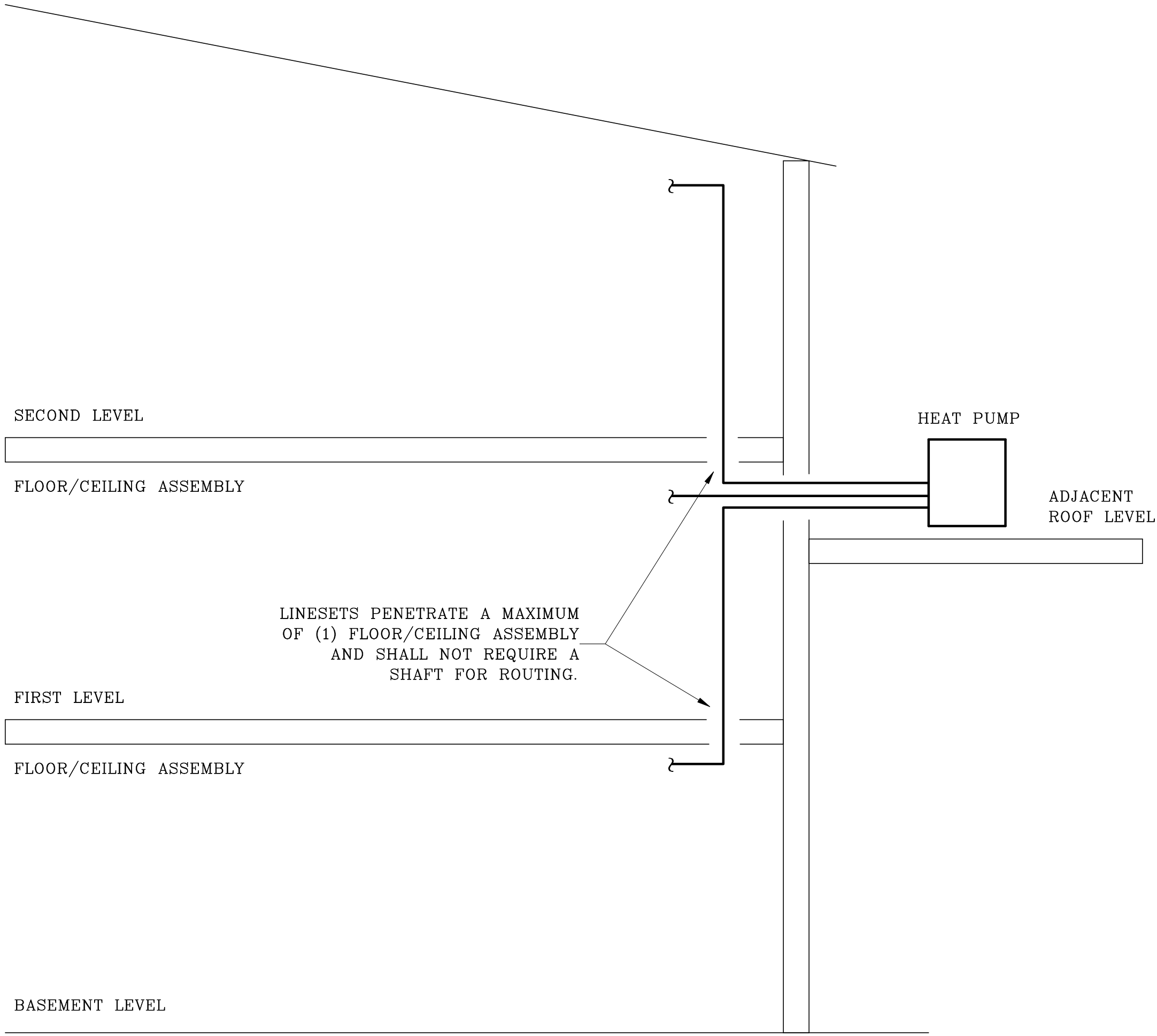
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MECHANICAL SECOND
FLOOR PLANS

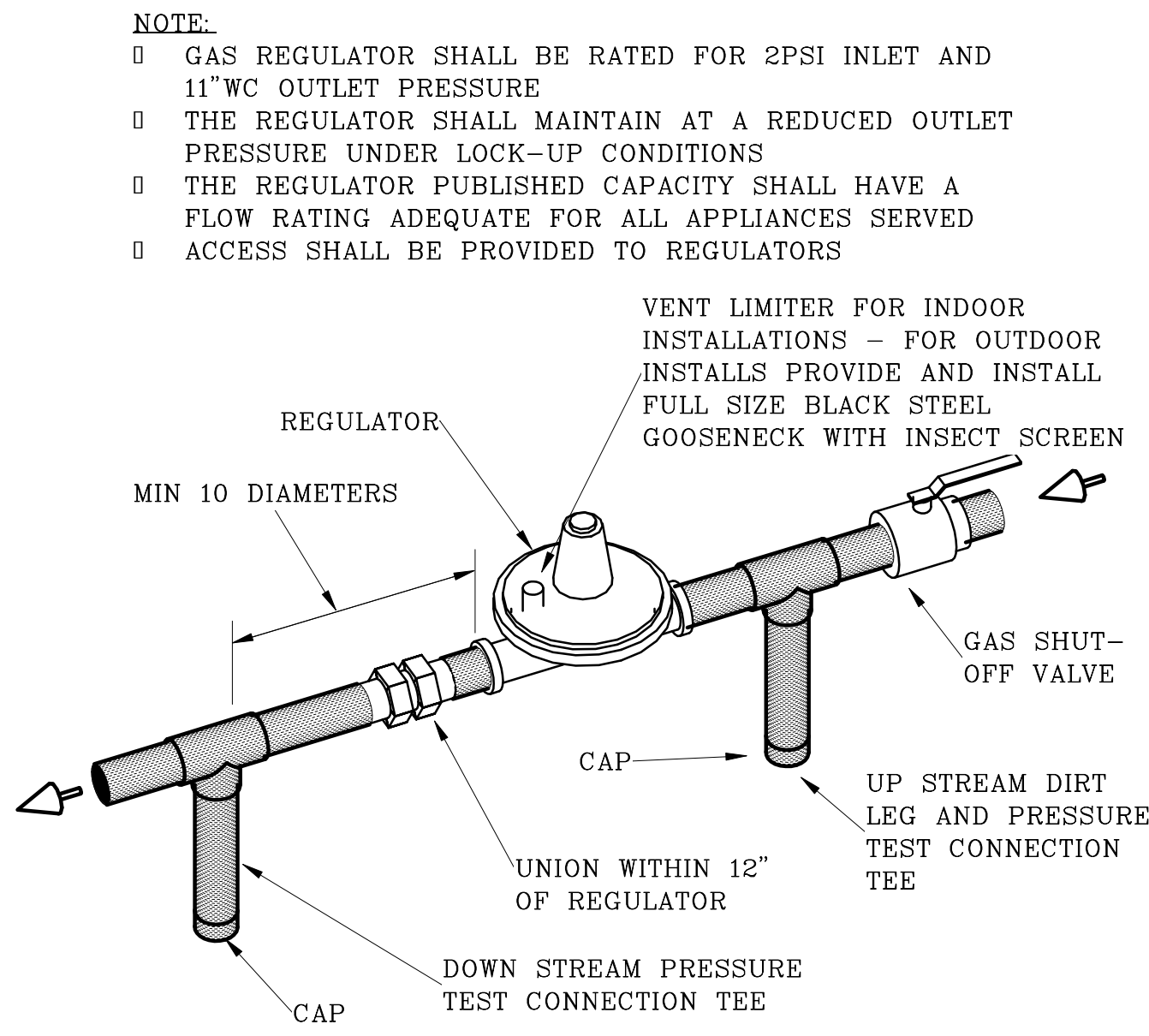
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M2.3

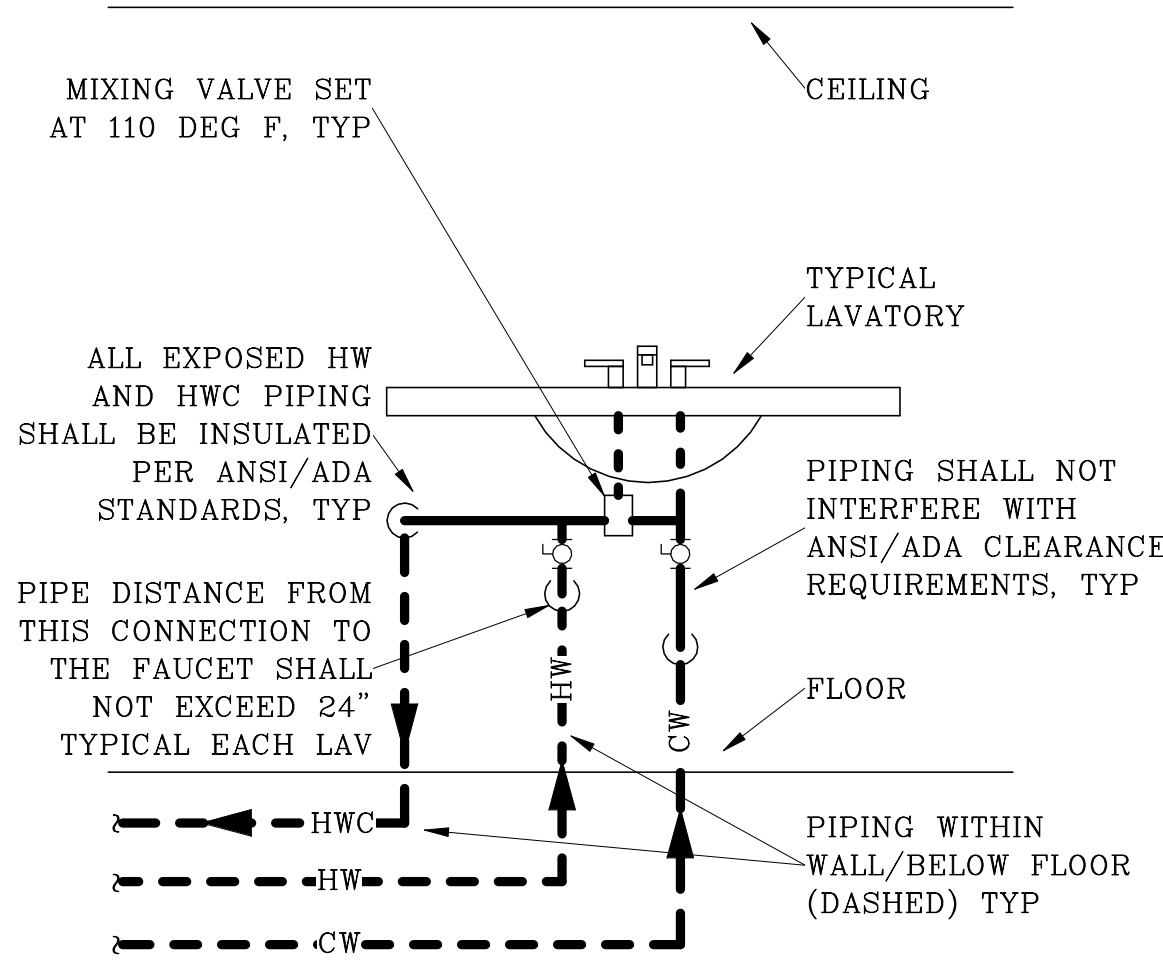
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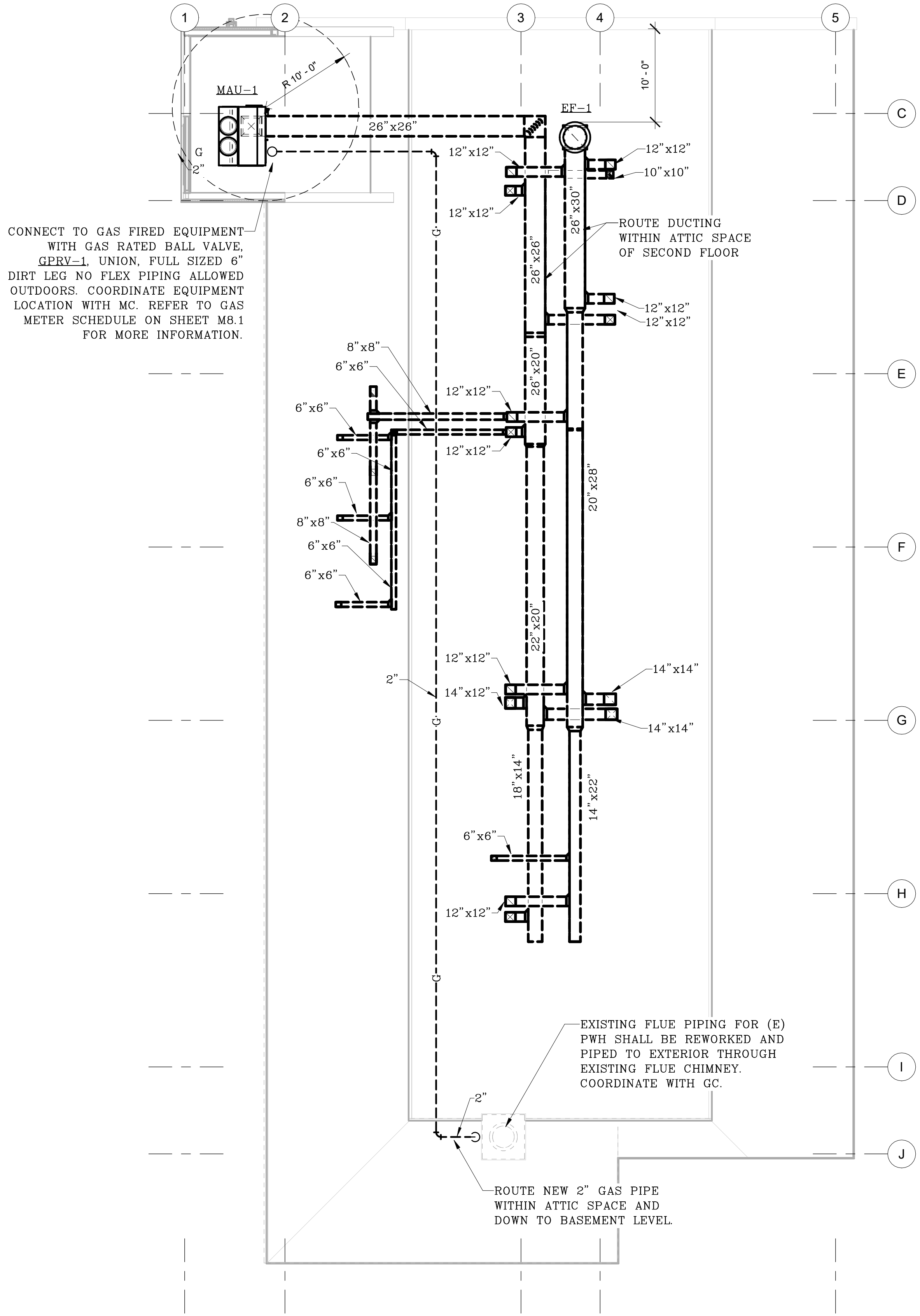
REFRIGERANT LINESET ROUTING
DETAIL
SCALE: NONE



GAS REGULATOR
DETAIL
SCALE: N/A



LAV WATER PIPING
DETAIL
SCALE: NONE

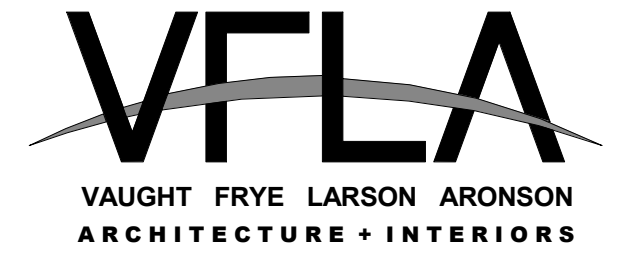


MECHANICAL ROOF
PLAN
1/8" = 1'-0"

PROJECT NUMBER: 24-203-KML

FIRST PRES
CHURCH -
EDUCATION WING
RENOVATION

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MECHANICAL ROOF
PLAN

DRAWING NUMBER:

M2.4

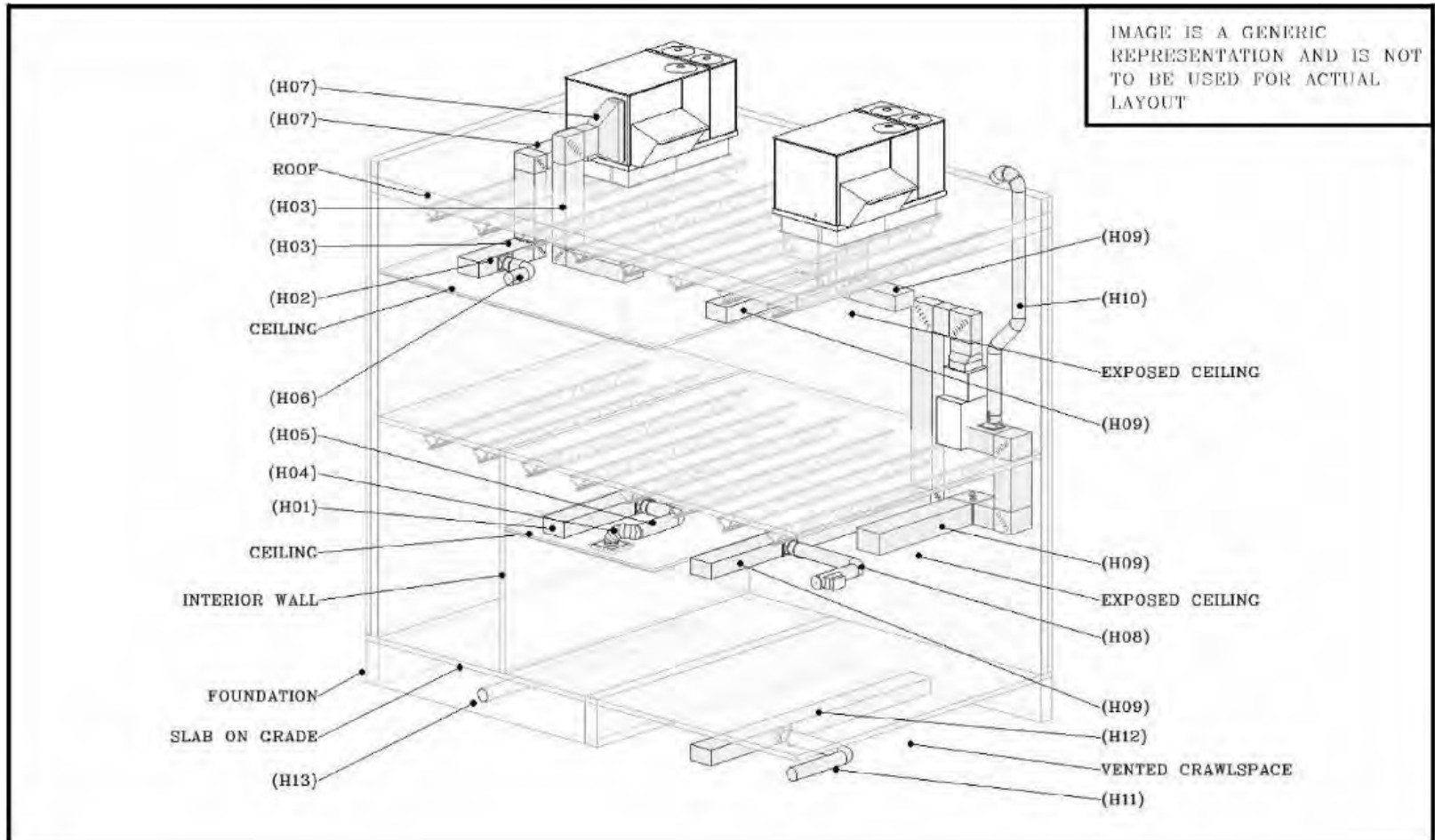
GAS METER SCHEDULE

(6" PSI DISCHARGE PRESSURE REQUIRED, 206' T.E.L.)	
EQUIPMENT	MBH
MAU-1	528
REMOVED BOILTERS (ESTIMATED)	-1,200
TOTAL ADDITIONAL GAS LOAD	-672

NOTE: CALCULATIONS FOR SIZING GAS SYSTEM UTILIZE EQUATIONS OF THE 2021 IFGC, NOT THE TABLES. EXISTING GAS LOAD IS UNKNOWN TO THIS ENGINEERING OFFICE. PC SHALL COORDINATE WITH GAS COMPANY IF A NEW METER IS NEEDED.

MECHANICAL DUCT INSULATION SCHEDULE

INSULATION KEY	INSULATION DESCRIPTION	TYPE	THICKNESS (IN)	DENSITY (PCF)	TOTAL R VALUE	ACCOUSTICAL (NRC)
H01	RECTANGULAR DUCT IN CEILING SPACE WITH NO ROOF	LINER	1.0	1.5	4.2	0.70
H02	RECTANGULAR DUCT IN CEILING SPACE ADJACENT TO EXTERIOR ROOF	LINER	1.5	1.5	6.0	0.80
H03	RECTANGULAR DUCT IN CEILING SPACE ADJACENT TO EXTERIOR ROOF AND SPACE IS A RETURN PLENUM	LINER	1.0	1.5	4.2	0.70
H04	FLEXIBLE DUCT TO DIFFUSER	FLEX	1.5	~	6.0	~
H05	ROUND DUCT IN CEILING SPACE WITH NO ROOF	WRAP	1.5	0.75	4.2	~
H06	ROUND DUCT IN SPACE ADJACENT TO EXTERIOR ROOF	WRAP	2.1	0.75	6.0	~
H07	RECTANGULAR DUCT EXTERIOR TO BUILDING ENVELOPE. DOUBLE WALL WATER TIGHT CONSTRUCTION. WRAP NOT ACCEPTABLE	LINER	3.0	1.5	12	0.95
H08	ROUND DUCT EXPOSED IN CONDITIONED SPACE	N/R		~	~	~
H09	RECTANGULAR DUCT EXPOSED IN CONDITIONED SPACE	LINER	1.0	1.5	4.2	0.70
H10	ROUND OR RECTANGULAR OUTSIDE AIR DUCT	WRAP	5.0	0.75	12	~
H11	ROUND DUCT IN VENTILATED CRAWL SPACE	WRAP	5.0	0.75	12	~
H12	RECTANGULAR DUCT IN VENTILATED CRAWL SPACE	LINER	3.0	1.5	12	0.95
H13	BURIED ROUND DUCT	INTERNAL		~	6.0	~



VENTILATION SCHEDULE

OUTDOOR AIR RATES HAVE BEEN ADJUSTED FOR 80% DISTRIBUTION EFFECTIVENESS

SPACE NUMBER	SPACE NAME	AREA (SF)	OCCUPANCY CLASSIFICATION	OCCUPANT DENSITY (#/1000 SF)	PEOPLE COUNT	PEOPLE OA RATE (CFM/#)	AREA OA RATE (CFM/SF)	PEOPLE OA (CFM)	AREA OA (CFM)	SPACE OA (CFM)
101	KITCHEN	332	021-80%-Break	5	2	6.25	0.075	13	25	37
102	BELL-ROOM	665	021-80%-Classroom-9+	35	24	12.50	0.150	300	100	400
103/105	MULTI-PURPOSE	1358	021-80%-Conference	50	68	6.25	0.075	425	102	527
104	FLEX SPACE	664	021-80%-Conference	50	34	6.25	0.075	213	50	262
106A	OFFICE	155	021-80%-Office-Private	5	1	6.25	0.075	6	12	18
106B	OFFICE	167	021-80%-Office-Private	5	1	6.25	0.075	6	13	19
107	MUSIC-STORAGE	542	021-80%-Storage-Room	1	1	0.00	0.150	0	81	81
108	B&G-OFFICE	324	021-80%-Office-Private	5	2	6.25	0.075	13	24	37
110	CORRIDOR	1260	021-80%-Corridor	1	2	0.00	0.075	0	95	95
110A	CORRIDOR	216	021-80%-Corridor	1	1	0.00	0.075	0	16	16
113	ELECTRIC	137	021-80%-Storage-Room	1	1	0.00	0.150	0	21	21
114	WOMEN-1	188	021-80%-Restroom	1	1	0.00	0.000	0	0	0
115	WEN-1	212	021-80%-Restroom	1	1	0.00	0.000	0	0	0
119	MECHANICAL	332	021-80%-Storage-Room	1	1	0.00	0.150	0	50	50
Grand total: 14										1562

VENTILATION SCHEDULE

OUTDOOR AIR RATES HAVE BEEN ADJUSTED FOR 80% DISTRIBUTION EFFECTIVENESS

SPACE NUMBER	SPACE NAME	AREA (SF)	OCCUPANCY CLASSIFICATION	OCCUPANT DENSITY (#/1000 SF)	PEOPLE COUNT	PEOPLE OA RATE (CFM/#)	AREA OA RATE (CFM/SF)	PEOPLE OA (CFM)	AREA OA (CFM)	SPACE OA (CFM)
201	NURSERY	592	021-80%-Classroom-5-8	25	15	12.50	0.150	188	89	276
202	CORRIDOR	1323	021-80%-Corridor	1	2	0.00	0.075	0	99	99
202	CORRIDOR	325	021-80%-Office-Private	5	2	6.25	0.075	13	24	37
202A	CORRIDOR	217	021-80%-Corridor	1	1	0.00	0.075	0	16	16
203	DAYCARE	679	021-80%-Classroom-5-8	25	17	12.50	0.150	213	102	314
204	K-5 ROOM	551	021-80%-Classroom-5-8	25	14	12.50	0.150	175	83	258
208	YOUTH-ROOM	889	021-80%-Classroom-9+	35	32	12.50	0.150	400	133	533
209	TRAINING-ROOM	880	021-80%-Classroom-9+	35	31	12.50	0.150	388	132	520
210	LIBRARY	552	021-80%-Library	10	6	6.25	0.150	38	63	120
213	OFFICE	139	021-80%-Office-Private	5	1	6.25	0.075	6	10	17
214	WOMENS-2	190	021-80%-Restroom	1	1	0.00	0.000	0	0	0
215	MENS-2	228	021-80%-Restroom	1	1	0.00	0.000	0	0	0
Grand total: 12										2190

VENTILATION SCHEDULE

OUTDOOR AIR RATES HAVE BEEN ADJUSTED FOR 80% DISTRIBUTION EFFECTIVENESS

SPACE NUMBER	SPACE NAME	AREA (SF)	OCCUPANCY CLASSIFICATION	OCCUPANT DENSITY (#/1000 SF)	PEOPLE COUNT	PEOPLE OA RATE (CFM/#)	AREA OA RATE (CFM/SF)	PEOPLE OA (CFM)	AREA OA (CFM)	SPACE OA (CFM)
300	CORRIDOR	1130	021-80%-Corridor	1	2	0.00	0.075	0	85	85
301	TRAINING ROOM	664	021-80%-Classroom-9+	35	24	12.50	0.150	300	100	400
303	TRAINING ROOM	607	021-80%-Classroom-9+	35	22	12.50	0.150	275	91	366
304	MEETING ROOM	890	021-80%-Conference	50	45	6.25	0.075	281	67	348
305	PARTNER-OFFICE	374	021-80%-Office-Private	5	2	6.25	0.075	13	28	41
305A	OFFICE	96	021-80%-Office-Private	5	1	6.25	0.075	6	7	13
305B	OFFICE	93	021-80%-Office-Private	5	1	6.25	0.075	6	7	13
305C	OFFICE	91	021-80%-Office-Private	5	1	6.25	0.075	6	7	13
306	PARTNER-OFFICE	668	021-80%-Office-Private	5	4	6.25	0.075	25	50	75
307	PARTNER CONFERENCE ROOM	542	021-80%-Conference	50	28	6.25	0.075	176	41	218
308	PARTNER-OFFICE	658	021-80%-Office-Private	5	4	6.25	0.075	25	49	74
309A	CORRIDOR	215	021-80%-Corridor	1	1	0.00	0.075	0	16	16
311	STAIRS-NW	214	021-80%-Corridor-no-vent	1	1	0.00	0.000	0	0	0
312	STAIRS-SW	244	021-80%-Corridor-no-vent	1	1	0.00	0.000	0	0	0
313	SUPPLY	148	021-80%-Corridor	1	1	0.00	0.075	0	11	11
314	WOMENS-3	189	021-80%-Restroom	1	1	0.00	0.000	0	0	0
315	MENS-3	210	021-80%-Restroom	1	1	0.00	0.000	0	0	0
Grand total: 17										1671

NOTE:BASED ON 2021 IMC CH. 4, OUTSIDE AIR VENTILATION IS PROVIDED BY MAU-1 WITH A TOTAL SUPPLY OF 5,185 CFM.

SCHEDULE FOR: EF-1



COOK

ACRU-D VF

Upblast Centrifugal Exhaust Ventilator
Roof Mounted/Direct Drive
Electronically Commutated Vari-Flow® Motor

STANDARD CONSTRUCTION FEATURES:
All aluminum housing - Backward inclined all aluminum wheel - Two piece top cap with stainless steel quick release latches - (size 120 - 300) - Welded curb cap corners - Birdscreen - Permanently lubricated ball bearing motors - Corrosion resistant fasteners - Transit tested packaging.

Qty	Catalog Number	Flow (CFM)	SP (inwc)	Fan RPM	Power (HP)	FEG	FEI	Speed Control
1	180R17D (VF2)	4065	1.00	1318	1.21	63	129	EC

Altitude (ft): 5000 Temperature (F): 70

Motor/Controller Information

HP	RPM	Volts/Ph/Hz	Enclosure	FLA	VFD Rated
2	1725	208/3/60	TEFC -PM	7.5	Yes

FLA based on NEC (2017) Table 430.250

*Motor programmed to max speed of 1848 RPM.

Sound Data Inlet Sound Power by Octave Band

1	2	3	4	5	6	7	8	LwA dBA	Sones
73	77	86	90	75	75	69	64	83	71

*Distance from Sound source 5 ft

Accessories:

FAN MOUNTED SPEED CONTROL

DISCONNECT NEMA 1 PRE-WIRED

BD-24 DAMPER

ROOF CURB RCG 28 13.5H -C+T+N

REINFORCED WHEEL

NOTE:

1. FAN SHALL BE INTERLOCKED WITH MAU-1 OPERATION.

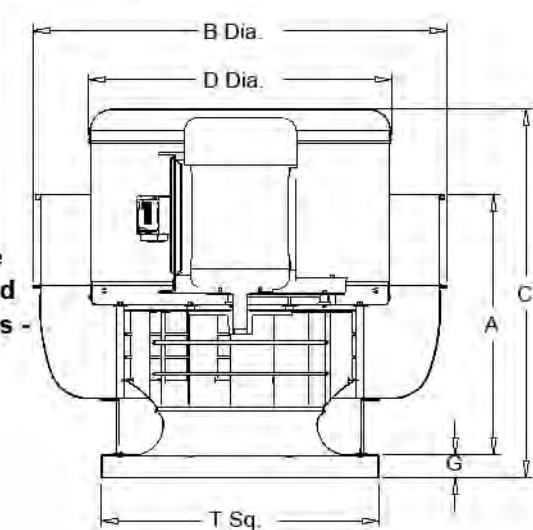
2. HOA STARTED FURNISHED BY MC.

WIRED BY EC. WITH LOW VOLTAGE

INTERLOK TO MAU-1.



MARK: EF-1
PROJECT: 24-203-EF-75
DATE: 6/4/2025



Dimensions (inches)

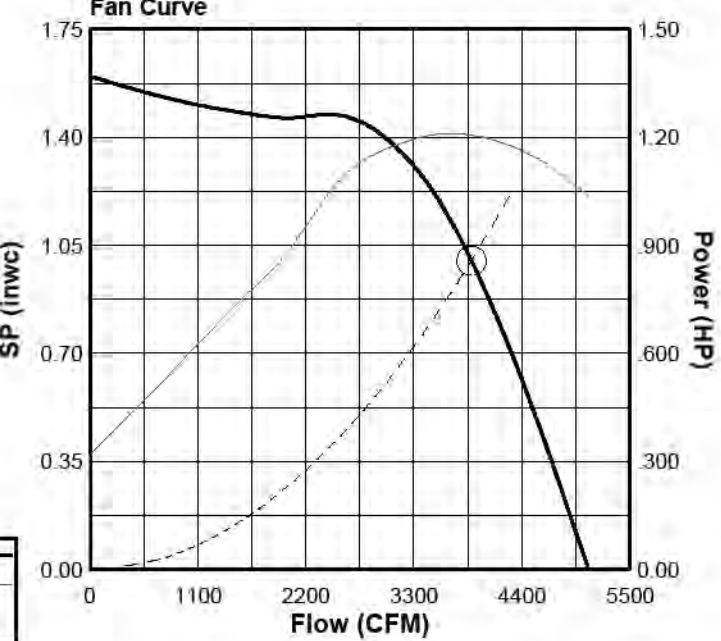
A	24-13/16
B	30-7/16
C	35-7/8
D	26-1/8
G	3
T Sq.	30

Roof Open. Sq.* 25-1/2

*Minimum for curbs supplied by Cook only

Weight(lbs)*** Shipping [245] [Unit] [126]

***Includes fan, motor & accessories.



Fan Curve Legend
CFM vs SP
CFM vs HP
Point of Operation
System Curve

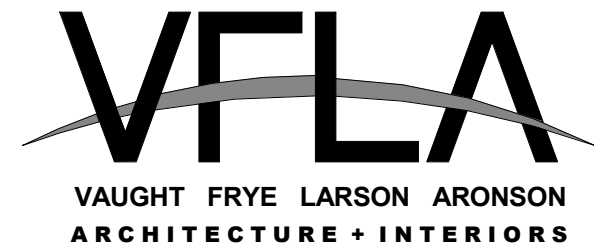
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Page 1 of 4

PROJECT NUMBER: 24-203-KML

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FORT COLLINS, CO 80521
970-556-0570

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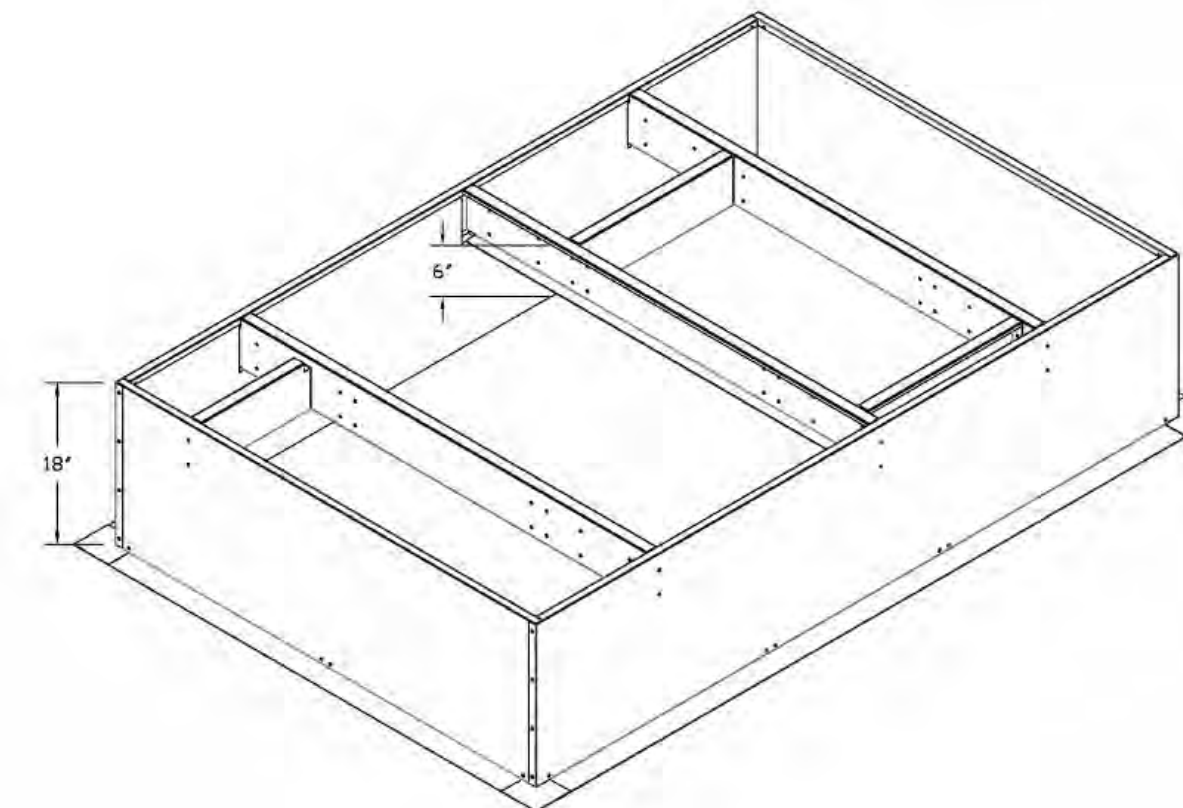
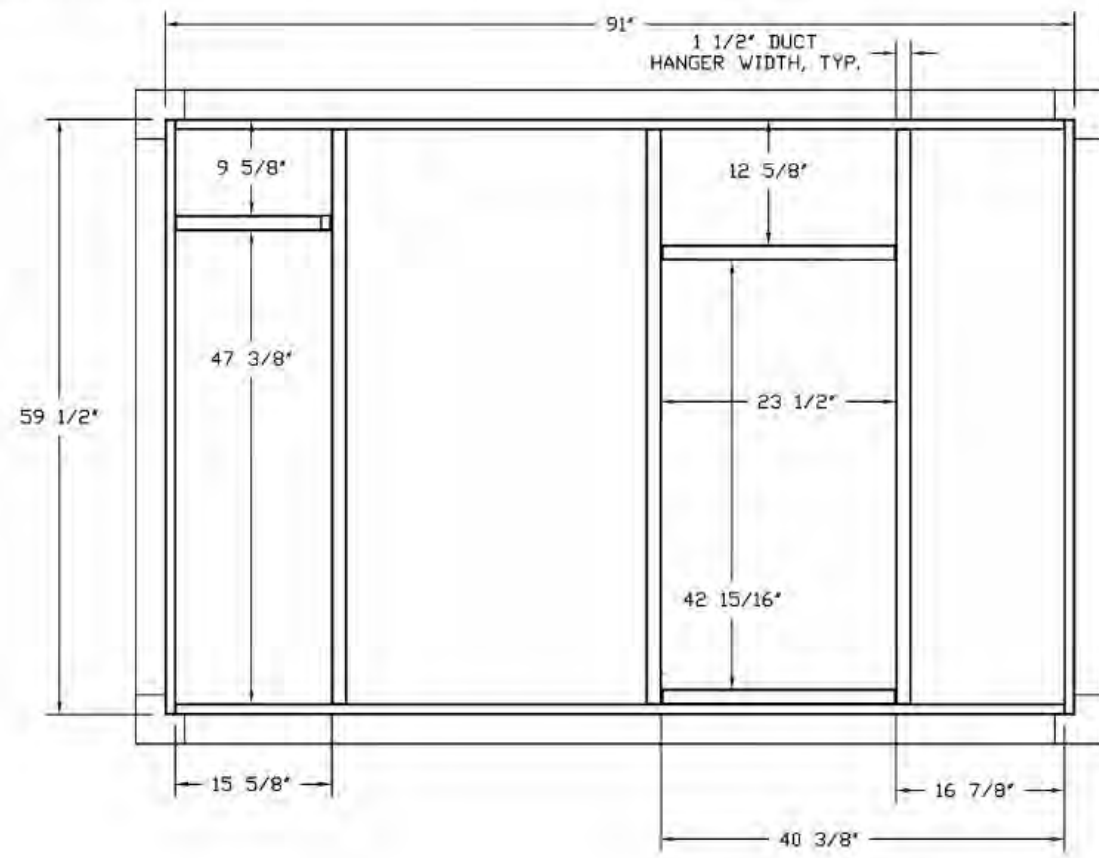
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MECHANICAL SCHEDULES

DRAWING NUMBER:

M8.1

Fan #1 Curb
ROOF CURB - 59.5" Width, 91" Length, 18" Supply
Height, Insulated.



SCHEDULE FOR: MAU-1

CAPTIVE

CAS-HVAC3-I.685-24-15T-DOAS (#1) MAU-1 Weight: 277.3 lbs / 122 curb

RTU with Indirect Fired Heat and 24" Direct Drive Mixed Flow Plenum Fan, 1 Furnace, Electronic Full Modulation, Constant 81% Efficiency, and 12:1 Max Turndown for NG, (10:1 Max Turndown for LP). Stainless Steel Burner and Heat Exchanger.

SUPPLY MOTOR

Model DTP7/54 - 7.500 HP, 3 Phs, 208 V, 60 Hz, 21.1 FLA, ODP, Premium (E-Plus3) Eff.

SUPPLY PERFORMANCE

Supply Air:	5425 CFM	RPM:	1286
Return Air:	0 CFM	Outdoor Air:	5185 CFM
Tip Speed:	8143 ft/min	BHP:	3.3280
SP:	1.704" w.g. (0.500" Ductwork Discharge ESP + 1.204" Opt.)		
Altitude:	5113 ft		

BLOWER

24 inch Mixed Flow Plenum Fan for size 3 RTU. Hub specified to match motor shaft.

TEMPERATURE CONTROL

OFFICE/CHURCH/RETAIL - Occupied/Unoccupied Scheduling - Space Temp Control - Heating and Cooling Activation Based On Either Set Point - Manual/Auto Blower Mode - Smoke Detector Interlock - Freezestat - Space Sensor Ships Loose.

AIRFLOW DIRECTION

- Side Discharge - Air Flow Left -> Right

CURB & SUPPORTS

- ROOF CURB - 59.5" Width, 91" Length, 18" Supply Height, Insulated.

Generated for job #718389

Job Name: Kyle MAU II - Fort Collins, CO

Date: November 21, 2024 4:32 PM



HEATING SCHEDULE

Altitude:	5,113 ft
Winter Outdoor Air Dry Bulb Temp:	0.0°F
Temp Rise:	80.0°F
Output BTU:	427,072 BTU/H
Input BTU:	527,249 BTU/H
Based Off:	BTUs Actual Air Density
Gas Type:	Natural

COOLING SCHEDULE

Outdoor Air Dry Bulb Temp:	95.0°F
Outdoor Air Wet Bulb Temp:	65.0°F
Max Outdoor Air %:	100%
Mixed Air Dry Bulb Temp:	95.0°F
Mixed Air Wet Bulb Temp:	65.0°F
Mixed Air Dew Point:	49.7°F
Leaving Dry Bulb Temp:	49.7°F
Leaving Wet Bulb Temp:	49.7°F
Leaving Dew Point:	49.4°F
Moisture Removal Rate:	0.0 Lb/Hr
Total Capacity:	204.7 MBH
Sensible Capacity:	204.7 MBH
Reheat Coil Capacity:	129.5 MBH
Reheat Coil Leaving Dry Bulb Temp:	70.0°F
Reheat Coil Leaving Wet Bulb Temp:	57.1°F
Reheat Coil Leaving Relative Humidity:	48%
IEER:	19.8
ISMRE:	5.7

NOTE:

- MAU-1 SHALL RUN DURING OCCUPIED HOURS.

SUPPLY INSTALLATION INFORMATION

Gas Pressure:	7 in. w.c. - 14 in. w.c.
Insurance Requirements:	No Insurance Requirement (ANSI)
Unit Voltage:	3 phs 208 V 60Hz
Unit Main Input:	77.5 Amps MCA + 90 Amps MOP + 208 V + 4 AWG Wire Min.
SCCR:	10 kAmp
A2L Min. Room Area / Airflow / Height:	602.1 ft ² - 1084 CFM - 7.2 ft **

**Minimum room area required (2 supply diffuser length) and is calculated per ISO 60355-2-40. All values based on factory design. Actual area change may differ.

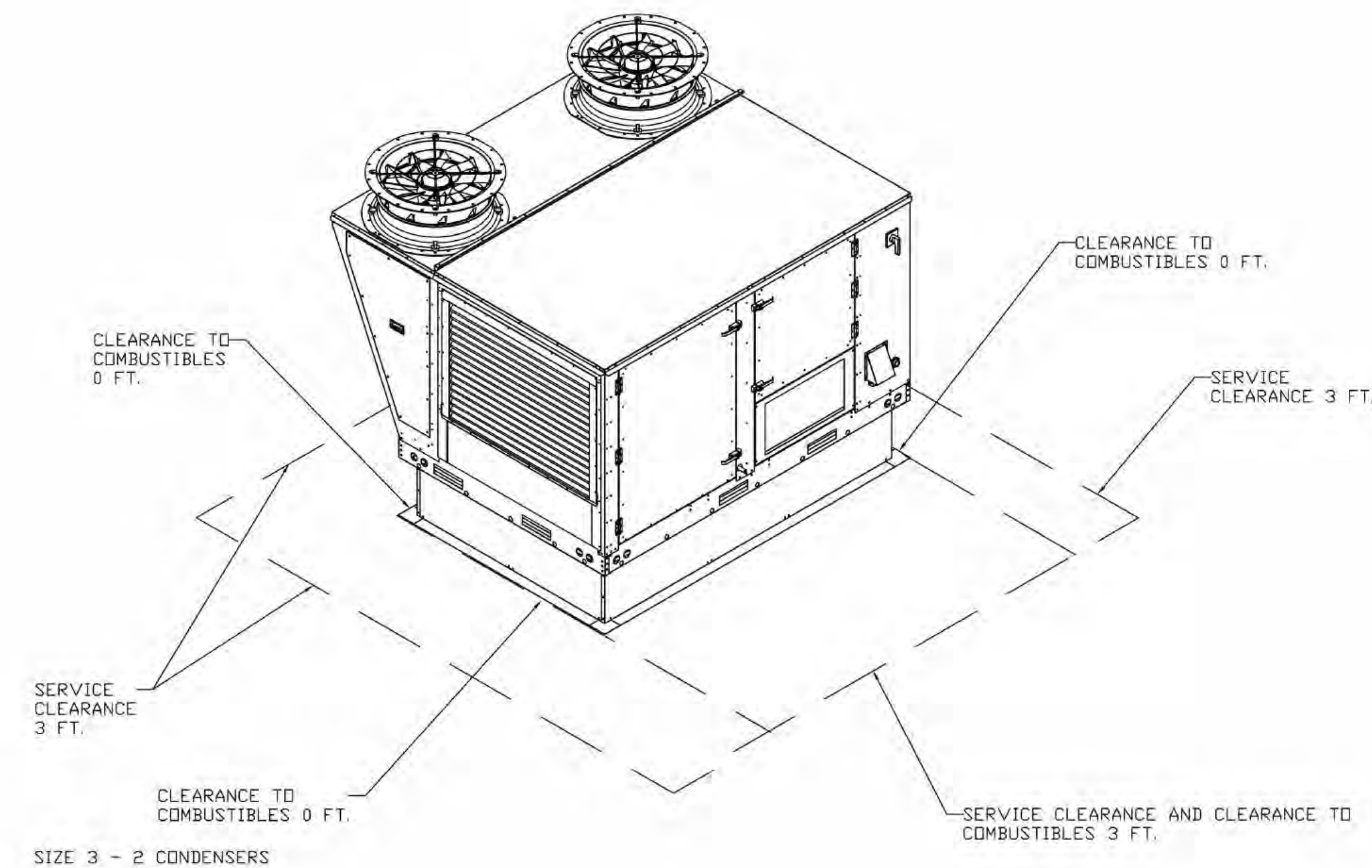
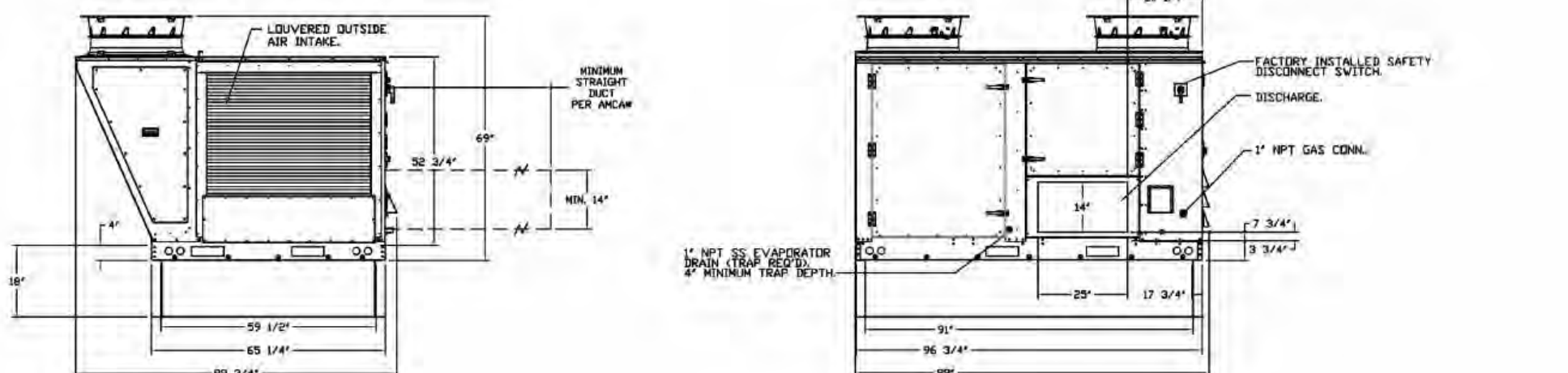
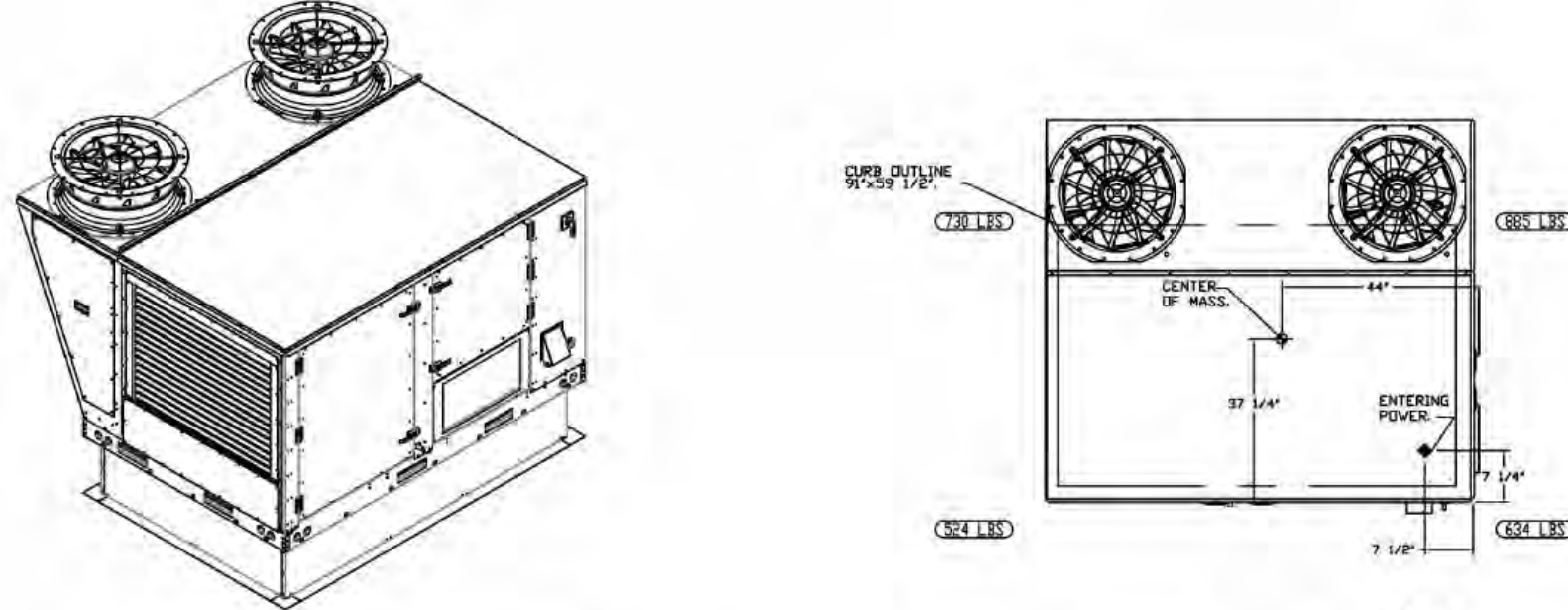
CONFIGURED OPTIONS

- Gas Pressure Gauge: 0-30", 2.5" Diameter, 1/4" Thread Size
- Gas Pressure Gauge: 0 to +10 inches Wc, 2.5" Diameter, 1/8" Thread Size, Rear Thread
- Ship Loose Gas Strainer: To be installed upstream of unit connection. 1" Connection
- Single Point Electrical Connection for RTU. QNTY 1 750va Transformer Used. If a Non-DCV Prewire controls this unit, the #20, #47, "MA", or "EZ" Option Prewire must be selected. Do not provide supply starter in prewire.
- CASlink building monitoring system communications module. Requires internet & field wired ethernet connection or 3G cellular service. Includes Rev 3 Comm Module, RJ45 to modbus converter, 3 FT cat5 cable, and 1 FT of shielded twisted pair.
- Unit will be shipped with construction mode ON. This is used to provide tempering for a building in construction. Activation is set to Intake. Tempering is set to Discharge. Mixing Box is set to 100% OA and rH number is 1.
- 2" Merv 13 Filters for Size 3 RTU. QTY 4, 20 x 25 x 2 Merv 13 Filters
- 2" Merv 8 Filters for Size 3 RTU. QTY 4, 20 x 25 x 2 Merv 8 Filters
- Overheat Stat factory set at 80°F and 10 minutes. Prevents unit from overheating the space when cooling.
- CFM monitoring for MAU units. Uses rivet nuts, 1/4" airflow tubing and push to connect fittings.
- VFD factory mounted and wired in unit control vestibule.
- Specialty sized offices for applications above 2,000, notify engineering.
- RTU Fixed 100% Outdoor Air Intake
- RTU Size 3 Side Discharge
- Intake Freezestat. Set to 135°F
- Freezestat
- Discharge Freezestat. Set to 240°F
- Size 3 RTU Curb Duct Hanger - Adjustable Duct Hanger Support Brackets installed for both return and discharge duct.
- 24VAC Fire Input
- Commercial Smoke Detector Interlock (Detector By Others)
- Field Wired Exhaust Contactor After Airflow Switch. Rated 23 Amps. Starts up to (2) Single Phase Motors. 2HP max. 115V, 3HP max. 240V. Starts one Three Phase Motor. 5HP max. 208V, 7.5HP 230V, 15HP max. 460V, 15HP max. 575V or (4) Dry Inrushless. Overload not included
- Occupied Scheduling Defaulted for IBT/RTU
- Clogged Filter Switch with Notification on Mail
- GFD 15 amp Convenience Outlet For RTU's Enclosure. 120V power supply by others. Includes receptacle, box & cover
- 15 Ton Modulating Cooling Option: 208/230V, R454B Refrigerant, Variable Speed Inverter Duty Compressor, ECM Condensing Fan(s)
- RTU Compressor Oil Sensor Factory Installed. M12 Style Connector.
- R454B Refrigerant Leak Detector Option. Includes 20% LFL sensor and harness.
- RTU Size 3 Hall Guard for outdoor coil. Includes magnets and washers for installation
- RTU Size 3 No Return
- VAV (Variable Air-Volume) Wiring Package for Commercial Fans. Manual Speed Control Variable Frequency Drive Included
- Supply Variable Frequency Drive - 7-1/2 HP Max., 200/240 V, Three Phase, 23.0 A Max., NEMA 1 Enclosure, with 2RU-45 FOR MODBUS
- 15 Ton Cooling Only Modulating Reheat Option for Space Control - R454B

FAV #1 CAS-HVAC3-I.685-24-15T-DOAS - HEATER ONLY

- NOTES:
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL, OR OUTSIDE AIR FAN.
 - DO NOT REMOTE CORNER WEIGHT.
 - ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
 - CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.
 - EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SNAGMA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN ASHRAE PUBLICATION 90.8. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THREAT/CRANE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURN IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" x 14".



SCHEDULE FOR: ECH-1 THRU ECH-8

NOTE:

- MODEL SHALL BE 450 WATTS, 208/1/60 VOLTS, 42" LONG
- WITH REMOTE 24V THERMOSTAT

CVX Series Radiant Cove Ceiling Heater



WARNING: This product can expose you to chemicals including nickel which is known to the State of California to cause cancer, and chromium, which is known to the State of California to cause birth defects and/or reproductive harm. For more information go to www.P65warnings.ca.gov

Product Description

Cove heaters have a subtly contoured concave surface with a saw-tooth profile. The concave parabolic face plate performs a two-fold function: (1) it focuses the infrared rays and (2) directs the heat downward along cold perimeters and toward the center of the room. The sawtooth surface design increases the radiating surface area by 45%, thereby increasing the comfort level of the room faster and ensuring more rapid recovery from heat losses.

Product Specifications

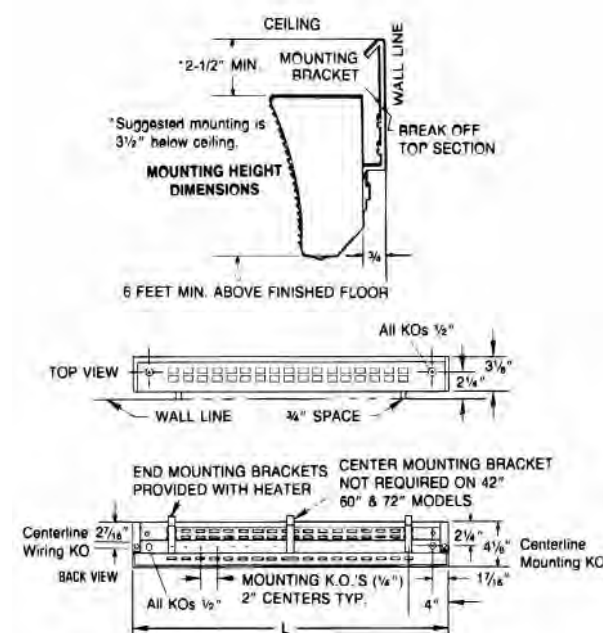
Furnish and install electric cove heaters where specified. The heaters shall be constructed of .096" thick Aluminum. The heater surface shall be concave in contour and saw-tooth in profile. The finish shall be of powder coat white finish. The heaters shall be available in ratings from 450 through 1250 Watts, at 120, 240, 208 and 277 Volts. The heating element shall be of Nichrome wire, embedded in Magnesium Oxide powder, enclosed and sealed in Aluminum metal tubing. The heater shall be listed by ETL and the elements shall be supplied with a one year limited warranty. Made in U.S.A.

Standard Models

MFG CATALOG NUMBER	MFG MODEL NUMBER	WATTS	BTUs	AMPS	VOLTS	LENGTH	WT. (LBS)
04578802	CV4512X	450	3.8	1.20			
04578802	CV451X	450	136	2.5	208	42"	7
04578802	CV601X	600		2.0	120		
04578802	CV601X	600		2.5	240		
04578802	CV601X	600		2.9	208		
04578802	CV6027X	600	2048	2.2	277	60"	10

Accessories & Dimensions

MFG CATALOG NUMBER	MFG MODEL NUMBER	DESCRIPTION	WT. (LBS)
04579202	CVCBX	Ceiling Bracket*	1/2
04578602	CVB42X	42" Blank Section	6
04578702	CVB60X	60" Blank Section	8
04578802	CVB84X	84" Blank Section	12
0457910X	CVS	Acrylic Aerosol Touch-up Paint	1



PLUMBING FIXTURE SCHEDULE

FIXTURE TAG	FIXTURE SPECIFICATIONS
AAV-1	AIR ADMITTANCE VALVE - STUDOR MINI VENT 20301, PVC, WITH SCREEN, LIFETIME WARRANTY - SEE PLAN FOR PIPE SIZE
CP-1	CONDENSATE PUMP - LITTLE GIANT VCCA-20ULS, LOW PROFILE, 1/30 HP, 3/4" INLETS, 3/8" DISCHARGE, 115/1/60 VOLTAGE
DB-1	DRAIN BOX - OATEY MODA DRAIN BOX, 2" DRAIN, NO WATER VALVES, 1.25" TRIMPLATE, 2" AAV SURE-VENT ADAPTER, SOLID FACEPLATE - CONFIRM PIPE MATERIAL CONNECTION TYPE
GPRV-1	GAS PRESSURE REGULATOR - MAXITROL 325-7AL - 1250 MBH MAXIMUM LARGEST APPLIANCE, 1250 MBH MAXIMUM TOTAL CAPACITY, 2 PSI INLET, 11" WC OUTLET
LAV-1	LAVATORY •FIXTURE - KOHLER K-2054 SOHO, WALL MOUNT, 20" X 18" O.D. 16" X 13" X 4.875" DEEP BOWL, ADA WITH RIM MOUNTED AT 34" HIGH, WHITE VITREOUS CHINA, 4" CENTERSET, 64839 WALL HANGER •FAUCET - MOEN T6708-BN FAUCET, BRUSHED NICKEL, (0.5 GPM AERATOR) DUAL LEVER HANDLE, ADA, 4" CENTERSET, LESS LIFT ROD HOLE, METAL GRID STRAINER •MIXING VALVE - LEONARD 170A-LF, 0.375" INLET AND OUTLETS, MIN 0.25 GPM, MAX 4 GPM FLOW AT 20 PSI PRESSURE DROP, BRASS BODY CONSTRUCTION, FIELD TEMPERATURE ADJUSTABILITY, CHECK STOPS, SET FOR 110° F DISCHARGE TEMPERATURE, ASSE 1070 •ACCESSORIES - 1.5" PVC P-TRAP, CHROME STOPS AND SUPPLIES, TRUEBRO 402W PLASTIC INSULATION PACKAGE FOR ADA PROTECTION
PET-1	POTABLE EXPANSION TANK - WATTS PLT-12, IN LINE, 4.5 GALLON TOTAL, 2.8 GALLON ACCEPTANCE, NSF APPROVED
PP-1	POTABLE PUMP - TACO GENIE 011-CF, 3 GPM @ 20 FEET HEAD, 1/8 HP, 115/60/1 PHASE, 0.75" FLANGE CONNECTIONS, STAINLESS STEEL CASING AND CARTRIDGE, WET ROTOR CIRCULATOR WITH TACO 554-4 MOTION SENSOR STARTER KIT FOR AUTOMATIC MOTION DETECTION START. MOTION SENSOR INSTALLED OUTSIDE OF RESTROOM PER PLAN - FIELD SUPPLIED LOW-VOLTAGE WIRING BY PC - WITH RETURN WATER SENSOR DE-ENERGIZE AT PUMP AT 104°F WATER
SP-1	SUMP PUMP - ZOELLER BN152 SERIES PUMP, SIMPLEX, CAST IRON PUMPS, 50 GPM AT 17' TDH, NEMA 4X ALARM PANEL, WITH FLOAT, ALARM AND CONTROL PANEL, AUDIBLE AND VISUAL ALARMS, 120/60/1, 4/10 HP
SP-2	SUMP PUMP - ZOELLER BN152 SERIES PUMP, SIMPLEX, CAST IRON PUMPS, 50 GPM AT 17' TDH, NEMA 4X ALARM PANEL, WITH FLOAT, ALARM AND CONTROL PANEL, AUDIBLE AND VISUAL ALARMS, 120/60/1, 4/10 HP, WITH ZOELLER 2" Z-RAIL SYSTEM. REFER TO PLANS FOR BASIN INFORMATION.
WC-1	WATER CLOSET •FIXTURE - KOHLER K-3999/K-3999-RA, TANK TYPE, ADA, TWO-PIECE, FLOOR MOUNTED, 12" ROUGH-IN, 16.5" HIGH BOWL, ELONGATED, CLASS 5 FLUSH, WHITE VITREOUS CHINA, 1.28 GPF - TRIP LEVER SHALL BE ON ACCESSIBLE SIDE OF WATER CLOSET. PC TO CONFIRM RIGHT OR LEFT HAND TRIP LEVEL PRIOR TO ORDERING. •SEAT - CHURCH 295C, PLASTIC, OPEN FRONT •ACCESSORIES - CHROME STOP AND SUPPLY

PROJECT NUMBER: 24-203-KML

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DESIGN DEVELOPMENT	04-01-2025
ISSUED FOR PERMIT	06-11-2025

SEAL:



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MECHANICAL SCHEDULES

DRAWING NUMBER:

M8.2

SCHEDULE FOR: DHP-355 AND DS-355A/B

45MCCAQ One-Way Cassette Ductless System Sizes 6K to 18K DS-355B

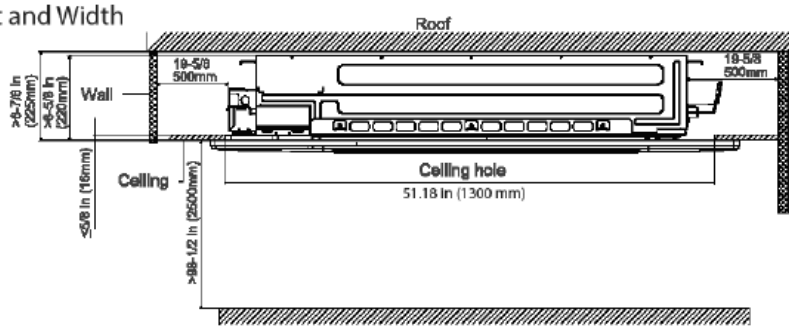


Fig. 1 - Sizes 6K to 18K

NOTE: Images are for illustration purposes only. Actual model may differ slightly.

CLEARANCE

Height and Width



Depth

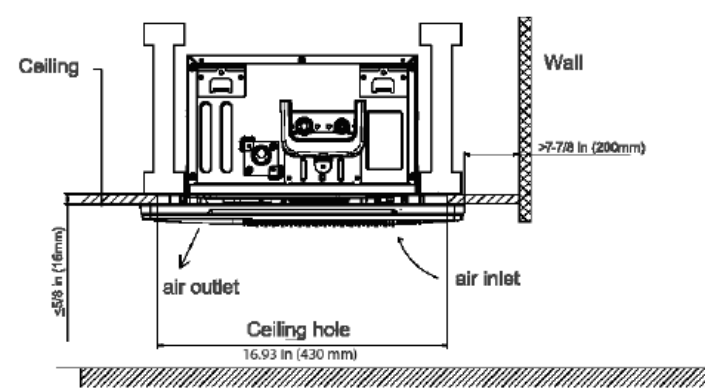


Fig. 11 - Clearance

DIMENSIONS

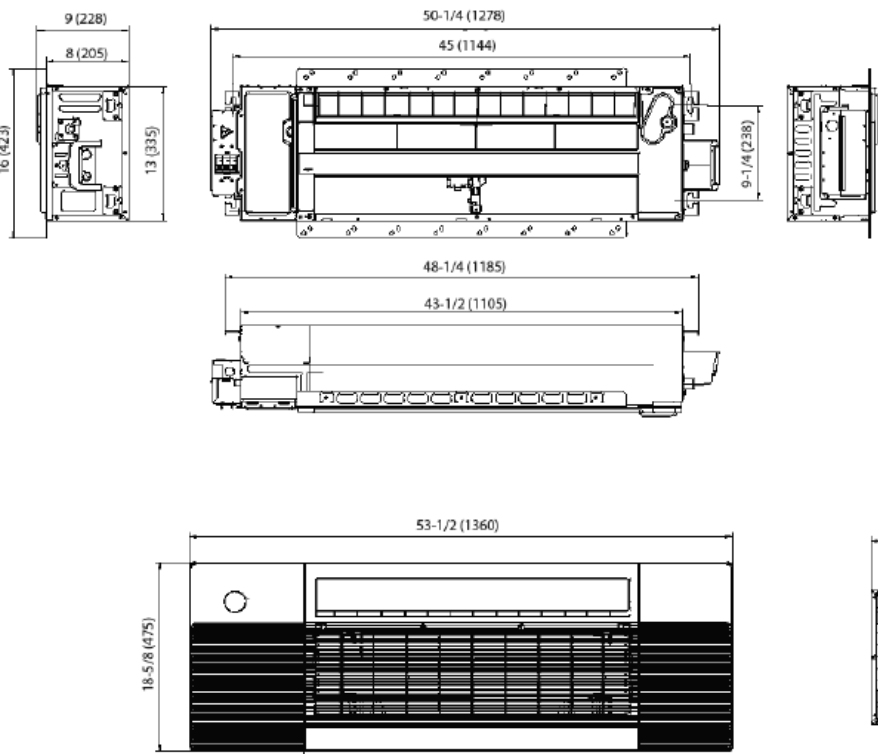
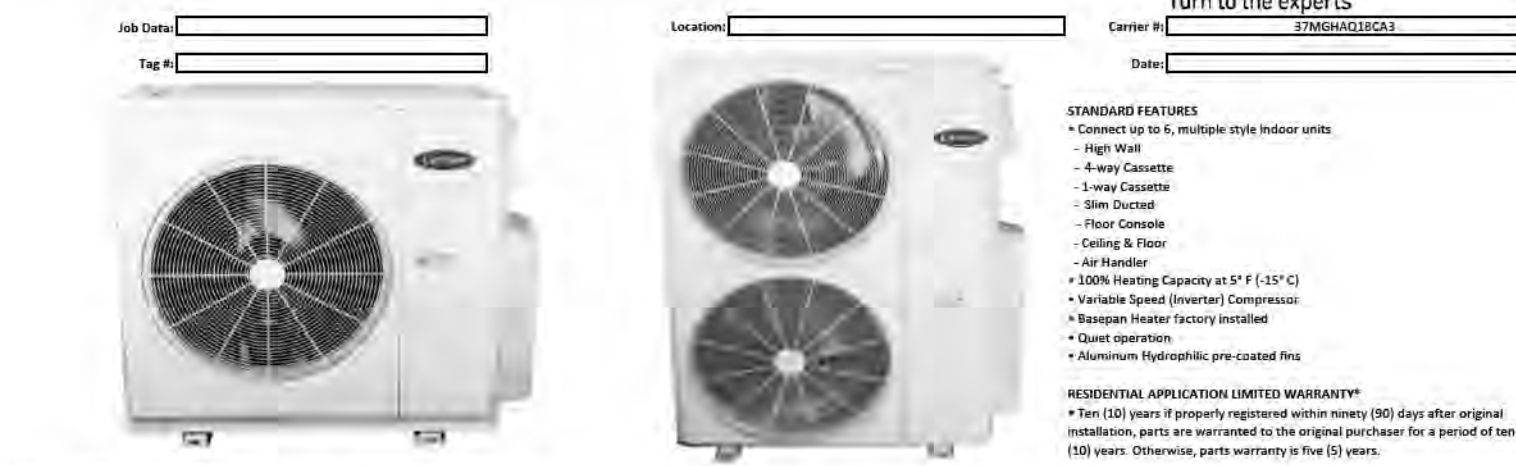


Fig. 10 - Dimensions for All Sizes

SPECIFICATIONS

SIZE		6K	
INDOOR MODEL NUMBER		45MCCAQ06XA3	
Power Supply		V, Ph, Hz	
Unit Dimensions	Height (H)	in (mm)	8.98 (228)
	Width (W)	in (mm)	50.31 (1278)
	Depth (D)	in (mm)	13.19 (335)
Weight - Net		lbs. (kg)	45.19 (20.5)
INDOOR FAN SPECIFICATIONS	Material	-	
	Type	-	
	Diameter	inch	3.7
		mm	94
	Height	inch	32.3
INDOOR MOTOR SPECIFICATIONS	Model	-	
	Type	-	
	Input	W	34.9
	Max. Input	W	78.6
	Output	W	30
INDOOR REFRIGERANT COIL SPECIFICATIONS	FLA	A	0.8
	Rated HP	HP	0.04
	Range of Current	Amps	0.35-1.0%
	Rated Current	Amps	0.35
	Speed	rev/min	1024/544/784
	Rated RPM	rev/min	1024
	Insulation Class	-	B
	Safe Class	-	IP20
	Number of Rows	Rows	2
	Tube Outside Diameter	inch	0.276
PIPING	Tube Nominal Tube Wall	inch (mm)	0.00945 (0.24)
	Tube Enhancement (Yes/No)	Yes/No	
	Tube Material		
	Tube Pitch (a) x Row Pitch (b)	inch	0.83 x 0.53
		mm	21x13.37
	FPI	FPI	20
	Fin Spacing	mm	1.3
	Fin Type		
	Fin Material		
	Coil Length x Height x Width	inch	32.68x7.44x1.06-32.68x4.96x1.05
ENVIRONMENTAL SPECIFICATIONS	Coil Length x Height x Width	mm	830*189*26.74+830*128*26.74
	Face Area	ft ² /m ²	2.81/26.10
	Number of Circuits	#	3
	Liquid	in	Ø1/4
		mm	Ø6.35
	Suction	in	Ø3/8
		mm	9.52
	Cooling Operating Range	Indoor Min - Max DB (°C)	°F 63-90 (16-32)
		Indoor Min - Max WB (°C)	°F 59-94 (15-29)
	Heating Operating Range	Outdoor Min - Max DB (°C)	°F -22--122 (-30-50)
ENVIRONMENTAL SPECIFICATIONS		Indoor Min - Max DB (°C)	°F 32-86 (0-30)
		Outdoor Min - Max DB (°C)	°F -22-75 (-30-24)
	Non-operating environment Storage	Temperature Range (DB) (°C)	°F -49-140 (-45-60)
	Operation Humidity	%	0-80
	Ambient Humidity	%	0-80

Outdoor Unit Multizone Heat Pump Ductless System DHP-355



NOTE: Images are for illustration purposes only. Actual models may be slightly different.

Outdoor - Heat Pump	
System	Outdoor Model # 37MGHAQ18CA3
Electrical	Outdoor Size 18K/24K/30K/36K/42K/48K/54K/60K/66K/72K/78K/84K/90K/96K/102K/108K/114K/120K/126K/132K/138K/144K/150K/156K/162K/168K/174K/180K/186K/192K/198K/204K/210K/216K/222K/228K/234K/240K/246K/252K/258K/264K/270K/276K/282K/288K/294K/300K/306K/312K/318K/324K/330K/336K/342K/348K/354K/360K/366K/372K/378K/384K/390K/396K/402K/408K/414K/420K/426K/432K/438K/444K/450K/456K/462K/468K/474K/480K/486K/492K/498K/504K/510K/516K/522K/528K/534K/540K/546K/552K/558K/564K/570K/576K/582K/588K/594K/600K/606K/612K/618K/624K/630K/636K/642K/648K/654K/660K/666K/672K/678K/684K/690K/696K/702K/708K/714K/720K/726K/732K/738K/744K/750K/756K/762K/768K/774K/780K/786K/792K/798K/804K/810K/816K/822K/828K/834K/840K/846K/852K/858K/864K/870K/876K/882K/888K/894K/900K/906K/912K/918K/924K/930K/936K/942K/948K/954K/960K/966K/972K/978K/984K/990K/996K/1002K/1008K/1014K/1020K/1026K/1032K/1038K/1044K/1050K/1056K/1062K/1068K/1074K/1080K/1086K/1092K/1098K/1104K/1110K/1116K/1122K/1128K/1134K/1140K/1146K/1152K/1158K/1164K/1170K/1176K/1182K/1188K/1194K/1200K/1206K/1212K/1218K/1224K/1230K/1236K/1242K/1248K/1254K/1260K/1266K/1272K/1278K/1284K/1290K/1296K/1302K/1308K/1314K/1320K/1326K/1332K/1338K/1344K/1350K/1356K/1362K/1368K/1374K/1380K/1386K/1392K/1398K/1404K/1410K/1416K/1422K/1428K/1434K/1440K/1446K/1452K/1458K/1464K/1470K/1476K/1482K/1488K/1494K/1500K/1506K/1512K/1518K/1524K/1530K/1536K/1542K/1548K/1554K/1560K/1566K/1572K/1578K/1584K/1590K/1596K/1602K/1608K/1614K/1620K/1626K/1632K/1638K/1644K/1650K/1656K/1662K/1668K/1674K/1680K/1686K/1692K/1698K/1704K/1710K/1716K/1722K/1728K/1734K/1740K/1746K/1752K/1758K/1764K/1770K/1776K/1782K/1788K/1794K/1800K/1806K/1812K/1818K/1824K/1830K/1836K/1842K/1848K/1854K/1860K/1866K/1872K/1878K/1884K/1890K/1896K/1902K/1908K/1914K/1920K/1926K/1932K/1938K/1944K/1950K/1956K/1962K/1968K/1974K/1980K/1986K/1992K/1998K/2004K/2010K/2016K/2022K/2028K/2034K/2040K/2046K/2052K/2058K/2064K/2070K/2076K/2082K/2088K/2094K/2100K/2106K/2112K/2118K/2124K/2130K/2136K/2142K/2148K/2154K/2160K/2166K/2172K/2178K/2184K/2190K/2196K/2202K/2208K/2214K/2220K/2226K/2232K/2238K/2244K/2250K/2256K/2262K/2268K/2274K/2280K/2286K/2292K/2298K/2304K/2310K/2316K/2322K/2328K/2334K/2340K/2346K/2352K/2358K/2364K/2370K/2376K/2382K/2388K/2394K/2400K/2406K/2412K/2418K/2424K/2430K/2436K/2442K/2448K/2454K/2460K/2466K/2472K/2478K/2484K/2490K/2496K/2502K/2508K/2514K/2520K/2526K/2532K/2538K/2544K/2550K/2556K/2562K/2568K/2574K/2580K/2586K/2592K/2598K/2604K/2610K/2616K/2622K/2628K/2634K/2640K/2646K/2652K/2658K/2664K/2670K/2676K/2682K/2688K/2694K/2700K/2706K/2712K/2718K/2724K/2730K/2736K/2742K/2748K/2754K/2760K/2766K/2772K/2778K/2784K/2790K/2796K/2802K/2808K/2814K/2820K/2826K/2832K/2838K/2844K/2850K/2856K/2862K/2868K/2874K/2880K/2886K/2892K/2898K/2904K/2910K/2916K/2922K/2928K/2934K/2940K/2946K/2952K/2958K/2964K/2970K/2976K/2982K/2988K/2994K/3000K/3006K/3012K/3018K/3024K/3030K/3036K/3042K/3048K/3054K/3060K/3066K/3072K/3078K/3084K/3090K/3096K/3102K/3108K/3114K/3120K/3126K/3132K/3138K/3144K/3150K/3156K/3162K/3168K/3174K/3180K/3186K/3192K/3198K/3204K/3210K/3216K/3222K/3228K/3234K/3240K/3246K/3252K/3258K/3264K/3270K/3276K/3282K/3288K/3294K/3300K/3306K/3312K/3318K/3324K/3330K/3336K/3342K/3348K/3354K/3360K/3366K/3372K/3378K/3384K/3390K/3396K/3402K/3408K/3414K/3420K/3426K/3432K/3438K/3444K/3450K/3456K/3462K/3468K/3474K/3480K/3486K/3492K/3498K/3504K/3510K/3516K/3522K/3528K/3534K/3540K/3546K/3552K/3558K/3564K/3570K/3576K/3582K/3588K/3594K/3600K/3606K/3612K/3618K/3624K/3630K/3636K/3642K/3648K/3654K/3660K/3666K/3672K/3678K/3684K/3690K/3696K/3702K/3708K/3714K/3720K/3726K/3732K/3738K/3744K/3750K/3756K/3762K/3768K/3774K/3780K/3786K/3792K/3798K/3804K/3810K/3816K/3822K/3828K/3834K/3840K/3846K/3852K/3858K/3864K/3870K/3876K/3882K/3888K/3894K/3900K/3906K/3912K/3918K/3924K/3930K/3936K/3942K/3948K/3954K/3960K/3966K/3972K/3978K/3984K/3990K/3996K/4002K/4008K/4014K/4020K/4026K/4032K/4038K/4044K/4050K/4056K/4062K/4068K/4074K/4080K/4086K/4092K/4098K/4104K/4110K/4116K/4122K/4128K/4134K/4140K/4146K/4152K/4158K/4164K/4170K/4176K/4182K/4188K/4194K/4200K/4206K/4212K/4218K/4224K/4230K/4236K/4242K/4248K/4254K/4260K/4266K/4272K/4278K/4284K/4290K/4296K/4302K/4308K/4314K/4320K/4326K/4332K/4338K/4344K/4350K/4356K/4362K/4368K/4374K/4380K/4386K/4392K/4398K/4404K/4410K/4416K/4422K/4428K/4434K/4440K/4446K/4452K/4458K/4464K/4470K/4476K/4482K/4488K/4494K/4500K/4506K/4512K/4518K/4524K/4530K/4536K/4542K/4548K/4554K/4560K/4566K/4572K/4578K/4584K/4590K/4596K/4602K/4608K/4614K/4620K/4626K/4632K/4638K/4644K/4650K/4656K/4662K/4668K/4674K/4680K/4686K/4692K/4698K/4704K/4710K/4716K/4722K/4728K/4734K/4740K/4746K/4752K/4758K/4764K/4770K/4776K/4782K/4788K/4794K/4800K/4806K/4812K/4818K/4824K/4830K/4836K/4842K/4848K/4854K/4860K/4866K/4872K/4878K/4884K/4890K/4896K/4902K/4908K/4914K/4920K/4926K/4932K/4938K/4944K/4950K/4956K/4962K/4968K/4974K/4980K/4986K/4992K/4998K/5004K/5010K/5016K/5022K/5028K/5034K/5040K/5046K/5052K/5058K/5064K/5070K/5076K/5082K/5088K/5094K/5100K/5106K/5112K/5118K/5124K/5130K/5136K/5142K/5148K/5154K/5160K/5166K/5172K/5178K/5184K/5190K/5196K/5202K/5208K/5214K/5220K/5226K/5232K/5238K/5244K/5250K/5256K/5262K/5268K/5274K/5280K/5286K/5292K/5298K/5304K/5310K/5316K/5322K/5328K/5334K/5340K/5346K/5352K/5358K/5364K/5370K/5376K/5382K/5388K/5394K/5400K/5406K/5412K/5418K/5424K/5430K/5436K/5442K/5448K/5454K/5460K/5466K/5472K/5478K/5484K/5490K/5496K/5502K/5508K/5514K/5520K/5526K/5532K/5538K/5544K/5550K/5556K/5562K/5568K/5574K/5580K/5586K/5592K/5598K/5604K/5610K/5616K/5622K/5628K/5634K/5640K/5646K/5652K/5658K/5664K/5670K/5676K/5682K/5688K/5694K/5700K/5706K/5712K/5718K/5724K/5730K/5736K/5742K/5748K/5754K/5760K/5766K/5772K/5778K/5784K/5790K/5796K/5802K/5808K/5814K/5820K/5826K/5832K/5838K/5844K/5850K/5856K/5862K/5868K/5874K/5880K/5886K/5892K/5898K/5904K/5910K/5916K/5922K/5928K/5934K/5940K/5946K/5952K/5958K/5964K/5970K/5976K/5982K/5988K/5994K/6000K/6006K/6012K/6018K/6024K/6030K/6036K/6042K/6048K/6054K/6060K/6066K/6072K/6078K/6084K/6090K/6096K/6102K/6108K/6114K/6120K/6126K/6132K/6138K/6144K/6150K/6156K/6162K/6168K/6174K/6180K/6186K/6192K/6198K/6204K/6210K/6216K/6222K/6228K/6234K/6240K/6246K/6252K/6258K/6264K/6270K/6276K/6282K/6288K/6294K/6300K/6306K/6312K/6318K/6324K/6330K/6336K/6342K/6348K/6354K/6360K/6366K/6372K/6378K/6384K/6390K/6396K/6402K/6408K/6414K/6420K/6426K/6432K/6438K/6444K/6450K/6456K/6462K/6468K/6474K/6480K/6486K/6492K/6498K/6504K/6510K/6516K/6522K/6528K/6534K/6540K/6546K/6552K/6558K/6564K/6570K/6576K/6582K/6588K/6594K/6600K/6606K/6612K/6618K/6624K/6630K/6636K/6642K/6648K/6654K/6660K/6666K/6672K/6678K/6684K/6690K/6696K/6702K/6708K/6714K/6720K/6726K/6732K/6738K/6744K/6750K/6756K/6762K/6768K/6774K/6780K/6786K/6792K/6798K/6804K/6810K/6816K/6822K/6828K/6834K/6840K/6846K/6852K/6858K/6864K/6870K/6876K/6882K/6888K/6894K/6900K/6906K/6912K/6918K/6924K/6930K/6936K/6942K/6948K/6954K/6960K/6966K/6972K/6978K/6984K/6990K/6996K/7002K/7008K/7014K/7020K/7026K/7032K/7038K/7044K/7050K/7056K/7062K/7068K/7074K/7080K/7086K/7092K/7098K/7104K/7110K/7116K/7122K/7128K/7134K/7140K/7146K/7152K/7158K/7164K/7170K/7176K/7182K/7188K/7194K/7200K/7206K/7212K/7218K/7224K/7230K/7236K/7242K/7248K/7254K/7260K/7266K/7272K/7278K/7284K/7290K/7296K/7302K/7308K/7314K/7320K/7326K/7332K/7338K/7344K/7350K/7356K/7362K/7368K/7374K/7380K/7386K/7392K/7398K/7404K/7410K/7416K/7422K/7428K/7434K/7440K/7446K/7452K/7458K/7464K/7470K/7476K/7482K/7488K/7494K/7500K/7506K/7512K/7518K/7524K/7530K/7536K/7542K/7548K/7554K/7560K/7566K/7572K/7578K/7584K/7590K/7596K/7602K/7608K/7614K/7620K/7626K/7632K/7638K/7644K/7650K/7656K/7662K/7668K/7674K/7680K/7686K/7692K/7698K/7704K/7710K/7716K/7722K/7728K/7734K/7740K/7746K/7752K/7758K/7764K/7770K/7776K/7782K/7788K/7794K/7800K/7806K/7812K/7818K/7824K/7830K/7836K/7842K/7848K/7854K/7860K/7866K/7872K/7878K/7884K/7890K/7896K/7902K/7908K/7914K/7920K/7926K/7932K/7938K/7944K/7950K/7956K/7962K/7968K/7974K/7980K/7986K/7992K/7998K/8004K/8010K/8016K/8022K/8028K/8034K/8040K/8046K/8052K/8058K/8064K/8070K/8076K/8082K/8088K/8094K/8100K/8106K/8112K/8118K/8124K/8130K/8136K/8142K/8148K/8154K/8160K/8166K/8172K/8178K/8184K/8190K/8196K/8202K/8208K/8214K/8220K/8226K/8232K/8238K/8244K/8250K/8256K/8262K/8268K/8274K/8280K/8286K/8292K/8298K/8304K/8310K/8316K/8322K/8328K/8334K/8340K/8346K/8352K/8358K/8364K/8370K/8376K/8382K/8388K/8394K/8400K/8406K/8412K/8418K/8424K/8430K/8436K/8442K/8448K/8454K/8460K/8466K/8472K/8478K/8484K/8490K/8496K/8502K/8508K/8514K/8520K/8526K/8532K/8538K/8544K/8550K/8556K/8562K/8568K/8574K/8580K/8586K/8592K/8598K/8604K/8610K/8616K/8622K/8628K/8634K/8640K/8646K/8652K/8658K/8664K/8670K/8676K/8682K/8688K/8694K/8700K/8706K/8712K/8718K/8724K/8730K/8736K/8742K/8748K/8754K/8760K/8766K/8772K/8778K/8784K/8790K/8796K/8802K/8808K/8814K/8820K/8826K/8832K/8838K/8844K/8850K/8856K/8862K/8868K/8874K/8880K/8886K/8892K/8898K/8904K/8910K/8916K/8922K/8928K/8934K/8940K/8946K/8952K/8958K/8964K/8970K/8976K/8982K/8988K/8994K/9000K/9006K/9012K/9018K/9024K/9030K/9036K/9042K/9048K/9054K/9060K/9066K/9072K/9078K/9084K/9090K/9096K/9102K/9108K/9114K/9120K/9126K/9132K/9138K/9144K/9150K/9156K/9162K/9168K/9174K/9180K/9186K/9192K/9198K/9204K/9210K/9216K/9222K/9228K/9234K/9240K/9246K/9252K/9258K/9264K/9270K/9276K/9282K/9288K/9294K/9300K/9306K/9312K/9318K/9324K/9330K/9336K/9342K/9348K/9354K/9360K/9366K/9372K/9378K/9384K/9390K/9396K/9402K/9408K/9414K/9420K/9426K/94

Outdoor Unit Multizone Heat Pump Ductless System

Outdoor Model: 37MGHAQ3EA3

DHP-201, DHP-209, DHP-305AB, DHP-306 to the experts



Job Title:

Firm:



Date:



STANDARD FEATURES

- Convertible up to 8, multiple line indoor units
- 48V-198V
- 4-way Controller
- 3-way Controller
- 5-way Controller
- Fan Coil
- Electric Coil
- Heating & Floor Air Vents
- 100% Heating Capacity at 0° F (-15° C)
- Variable-Speed Compressor
- Remote Heat Exchanger Infrared
- Quiet Operation
- Aluminum hydrophobic pre-coated finish

RESIDENTIAL APPLICATION LIMITED WARRANTY

One (1) year or 10,000 operating hours (whichever occurs first) or 90 days after original installation, whichever occurs first, is the original purchaser for a period of 10 years (10 years, whichever is longer) from the date of installation.

STANDARD LINE DIMENSIONS				
Capacity	Depth	Width	W	H
540P/12L	mm	175	225	225
	inch	6.9	8.9	8.9
100L	mm	305	335	335
	inch	12.0	13.2	13.2
200L	mm	510	575	575
	inch	20.1	22.7	22.7
240L/36L	mm	640	740	740
	inch	25.2	29.1	29.1

M8.5

SCHEDULE FOR: DHP-305CD AND DS-305C/D

Outdoor Unit Multizone Heat Pump Ductless System

Outdoor Model: 37MGHAQ18CA3

DHP-305CD

Carrier

Turn to the experts

Job Date: _____

Tag #: _____

Date: _____

Location: _____

Carrier #: 37MGHAQ18CA3





STANDARD FEATURES

- Connect up to 6, multiple style indoor units.
- High Wall
- 4-way Casette
- 3-way Casette
- Slit Ductal
- Flared Casette
- Ceiling & Floor
- Jet Handler
- 300K Heating Capacity at 87°F (-1°F)
- Variable Speed (Inverter) Compressor
- Reactive Heater Factory Installed
- Quiet operation
- Aluminum Hydrophilic, pre-coated fins

RESIDENTIAL APPLICATION LIMITED WARRANTY*

- * Ten (10) years if properly registered within ninety (90) days after original installation, parts are warranted to the original purchaser for a period of ten (10) years. Otherwise, parts warranty is five (5) years.

NOTE: Images for illustration purposes only. Actual models may be slightly different.

Outdoor - Heat Pump

System	Outdoor Model #	37MGHAQ18CA3
Electrical	Outdoor Type	1800V
	Voltage, Phase, Cycle	208-230V/1-Ø/60
	Watts	11.5
	Watts	10
Operating Range	Cooling Outdoor DB Min. - Max.	55°F/110
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
Piping	Cooling Outdoor DB Min. - Max.	55°F/110
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
Refrigerant	Cooling Outdoor DB Min. - Max.	55°F/110
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
Outdoor Coil	Cooling Outdoor DB Min. - Max.	55°F/110
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
Compressor	Cooling Outdoor DB Min. - Max.	55°F/110
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
Airflow & Sound	Cooling Outdoor DB Min. - Max.	55°F/110
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
Dimensions	Cooling Outdoor DB Min. - Max.	55°F/110
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23

* Condensing unit shown in reference only.

Performance

System	Outdoor Model #	37MGHAQ18CA3
Electrical	Outdoor Type	1800V
	Voltage, Phase, Cycle	208-230V/1-Ø/60
	Watts	11.5
	Watts	10
Operating Range	Cooling Outdoor DB Min. - Max.	55°F/110
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
Piping	Cooling Outdoor DB Min. - Max.	55°F/110
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
Refrigerant	Cooling Outdoor DB Min. - Max.	55°F/110
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
Outdoor Coil	Cooling Outdoor DB Min. - Max.	55°F/110
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
Compressor	Cooling Outdoor DB Min. - Max.	55°F/110
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
Airflow & Sound	Cooling Outdoor DB Min. - Max.	55°F/110
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
Dimensions	Cooling Outdoor DB Min. - Max.	55°F/110
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23
	Heating Outdoor DB Min. - Max.	5°F/23

* Condensing unit shown in reference only.

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Model	Year	Year	Year	Year	Year	Year	Year
37MGHAQ18CA3	2024	2023	2022	2021	2020	2019	2018
	2017	2016	2015	2014	2013	2012	2011
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	1135	1134	1133	1132	1131	1130	1129
	1128	1127	1126	1125	1124	1123	1122
	1121	1120	1119	1118	1117	1116	1115
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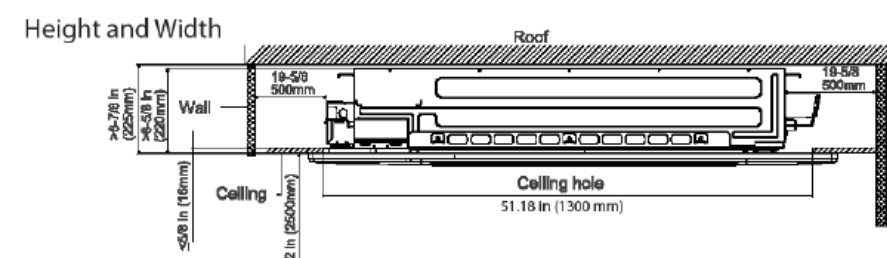
SCHEDULE FOR: DHP-255 AND DS-255A/B/C



Fig. 1 – Sizes 6K to 18K

NOTE: Images are for illustration purposes only. Actual model may differ slightly.

CLEARANCE



Depth

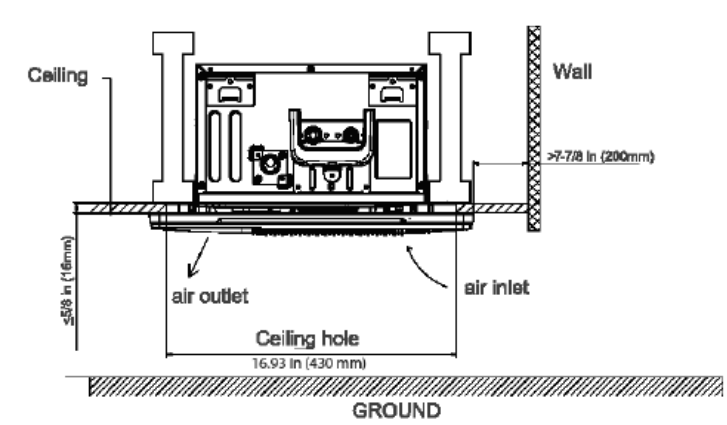


Fig. 11 – Clearance

DIMENSIONS

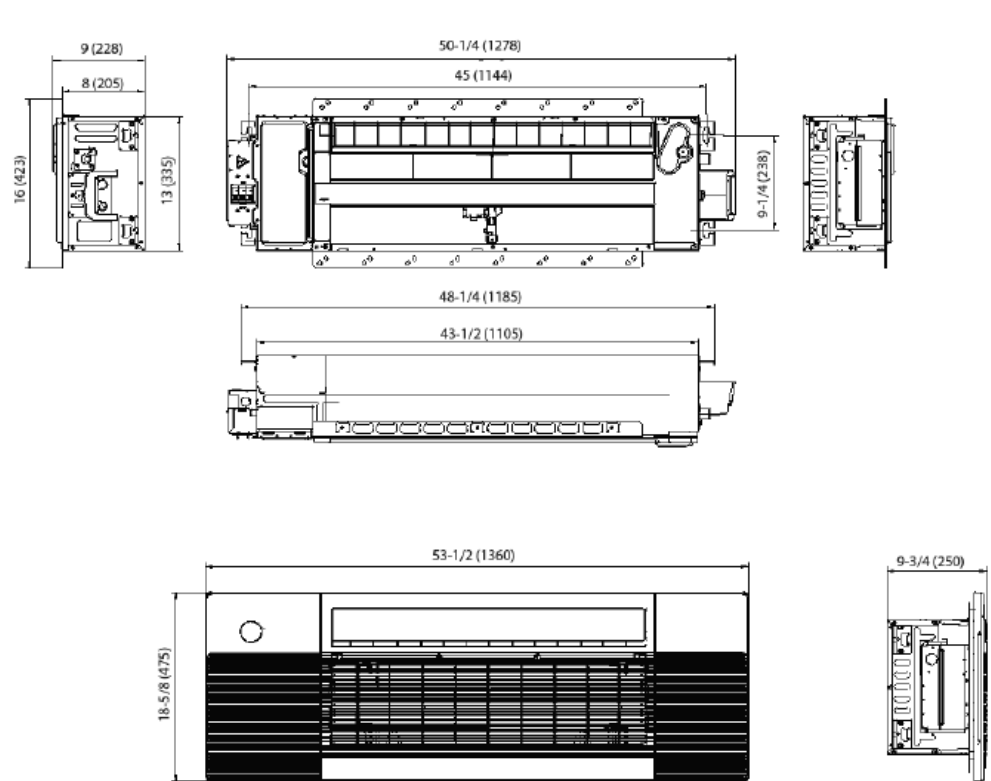


Fig. 10 – Dimensions for All Sizes

SPECIFICATIONS

SIZE		6K	
INDOOR MODEL NUMBER		45MCCA05XA3	
Power Supply		V/Ph/Hz	
Unit Dimensions		Height (H)	in (mm) 8.98 (228)
		Width (W)	in (mm) 50.31 (1278)
		Depth (D)	in (mm) 13.19 (335)
Weight - Net		lbs. (kg)	45.19 (20.5)
INDOOR FAN SPECIFICATIONS		Material	-
		Type	-
		Diameter	inch 3.7
		mm	94
		Height	inch 32.3
		mm	820
		Model	-
		Type	-
		Input	W 34.9
		Max. Input	W 78.6
INDOOR MOTOR SPECIFICATIONS		Output	W 30
		FLA	A 0.0
		Rated HP	HP 0.04
		Range of Current	Amps 0.55±10%
		Rated Current	Amps 0.35
		Speed	rev/min 1024/944/744
		Rated RPM	rev/min 1024
		Insulation Class	- B
		Safe Class	- IP20
		Number of Rows	2
INDOOR REFRIGERANT COIL SPECIFICATIONS		Tube Outside Diameter	inch 0.276
		mm	7
		Normal Tube Wall	inch (mm) 0.00945 (0.24)
		Tube Enhancement	(Yes/No) Yes
		Tube Pitch (a) x Row Pitch (b)	inch 0.83 x 0.53
		mm	21x13.7
		Fin Spacing	FPI 20
		Fin Type	mm 1.3
		Fin Material	-
		Coil Length x Height x Width	inch 32.68x7.44x1.05x12.68x4.56x1.05
PIPING		mm	830*189*26.74*630*126*26.74
		Face Area	in ² CM2 2.81/26.10
		Number of Circuits	# 3
		Liquid	in Ø1/4
		mm	Ø6.35
		Suction	in Ø3/8
		mm	9.52
ENVIRONMENTAL SPECIFICATIONS		Indoor Min - Max DB	°F 63-90
		(°C)	(16-32)
		Indoor Min - Max WB	°F 59-84
		(°C)	(15-29)
		Outdoor Min - Max DB	°F -22-122
		(°C)	(-30-50)
		Indoor Min - Max DB	°F 32-86
		(°C)	(0-30)
		Outdoor Min - Max DB	°F -22-75
		(°C)	(-30-24)
Non-operating environment Storage		Temperature Range (DB)	°F -49-140
		(°C)	(-45-60)
Operation Humidity		%	0-80
		Ambient Humidity	% 0-80

1. OUTDOOR UNIT WITH 24" TALL MOUNTING STAND, DIVERSITECH QSM24 OR SIMILAR.
2. INDOOR UNIT WITH MINI-SPLIT CONDENSATE PUMP, ASPEN MINI-AQUA OR SIMILAR.
3. WIRED WALL MOUNTED REMOTE THERMOSTAT.
4. COLD CLIMATE SYSTEM WITH -22 DEG F HEATING CAPABILITY REQUIRED.



Job Title: _____ Location: _____ Carrier #: _____
 Tag #: _____ Date: _____

Turn to the experts

INDOOR STANDARD FEATURES

- Connect up to 6, multiple style indoor units.
- High Wall
- 4-way Cassette
- 3-way Cassette
- Slim Ductless
- Ceiling & Floor
- Air Handler
- 100% Heating Capacity at 57°F (-15°C)
- Variable Speed (Inverter) Compressor
- Reusable Indoor Filter (washable)
- Quiet operation
- Ductless Radiant-style pre-installed fins

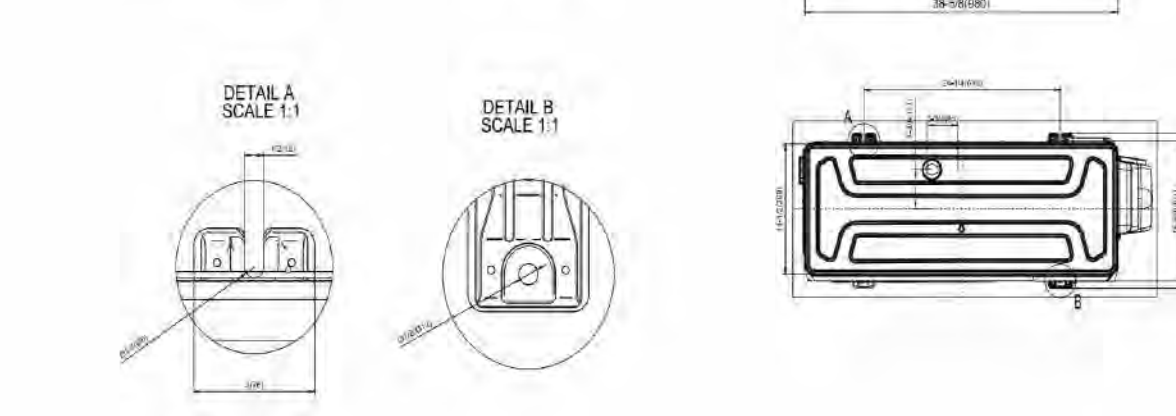
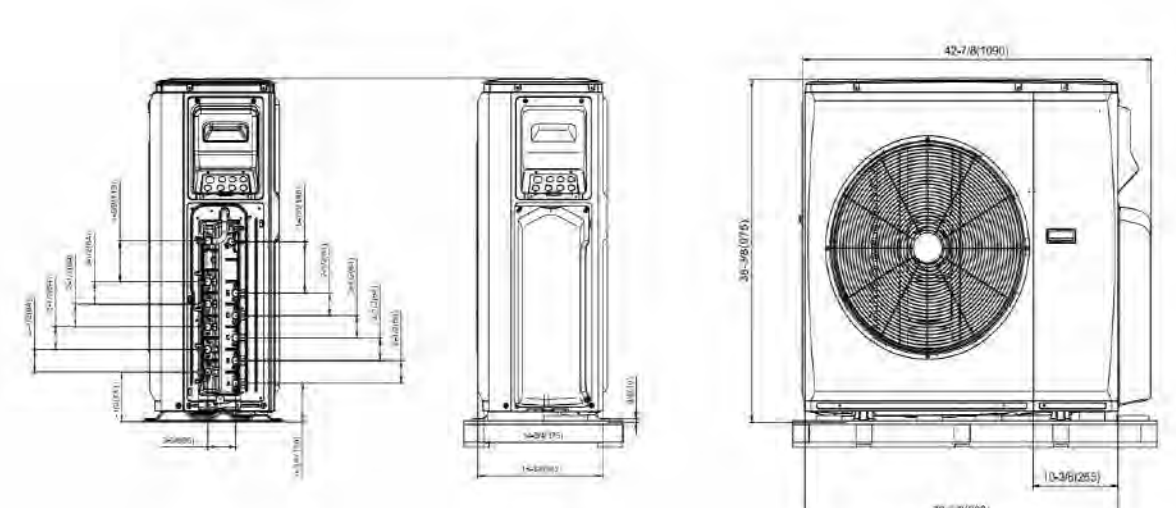
RESIDENTIAL APPLICATION LIMITED WARRANTY**

- Ten (10) years if properly registered within ninety (90) days after original installation, parts are warranted to the original purchaser for a period of ten (10) years. Otherwise, parts warranty is five (5) years.

Outdoor - Heat Pump		Performance	
Outdoor Model #		Ductless	
System		Ducted	
Electrical		Mixed	
Operating Range		Capacity	
Piping		Capacity	
Indifferent		Capacity	
Outdoor Coil		Capacity	
Compressor		Capacity	
Airflow & Sound		Capacity	
Dimensions		Capacity	

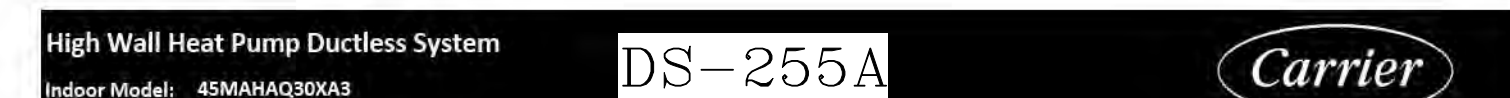
* Conditioning unit shown in factory indoor unit.

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Model	Net Weight	Gross Weight	Net Weight	Gross Weight	Net Weight	Gross Weight	Net Weight	Gross Weight	Net Weight	Gross Weight
45MCCA05XA3	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31
45MCCA05XA3	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31
45MCCA05XA3	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31
45MCCA05XA3	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31
45MCCA05XA3	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31
45MCCA05XA3	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31
45MCCA05XA3	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31
45MCCA05XA3	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31
45MCCA05XA3	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31
45MCCA05XA3	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31	45.19	50.31

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Job Title: _____ Location: _____ Carrier #: _____
 Tag #: _____ Date: _____

Turn to the experts

INDOOR STANDARD FEATURES

- Modes: Cool, Heat, Dry, Fan, Auto
- Four fan speeds
- Sleep Mode
- Turbo Mode
- Follow Me (senses temperature at handheld remote)
- Auto-Reset function
- Quiet indoor operation
- Anti-corrosive fin coating

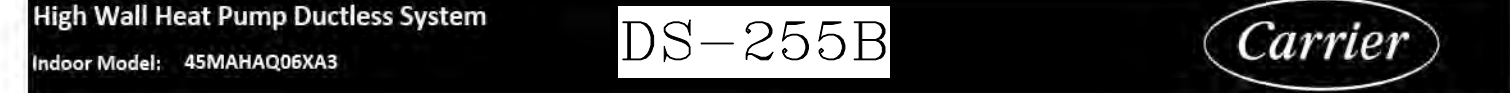
RESIDENTIAL APPLICATION LIMITED WARRANTY**

- Ten (10) years if properly registered within ninety (90) days after original installation, parts are warranted to the original purchaser for a period of ten (10) years. Otherwise, parts warranty is five (5) years.

Outdoor - Heat Pump		Performance	
Outdoor Model #		Ductless	
System		Ducted	
Electrical		Mixed	
Operating Range		Capacity	
Piping		Capacity	
Indifferent		Capacity	
Outdoor Coil		Capacity	
Compressor		Capacity	
Airflow & Sound		Capacity	
Dimensions		Capacity	

* Conditioning unit shown in factory indoor unit.

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Job Title: _____ Location: _____ Carrier #: _____
 Tag #: _____ Date: _____

Turn to the experts

INDOOR STANDARD FEATURES

- Modes: Cool, Heat, Dry, Fan, Auto
- Four fan speeds
- Sleep Mode
- Turbo Mode
- Follow Me (senses temperature at handheld remote)
- Auto-Reset function
- Quiet indoor operation
- Anti-corrosive fin coating

RESIDENTIAL APPLICATION LIMITED WARRANTY**

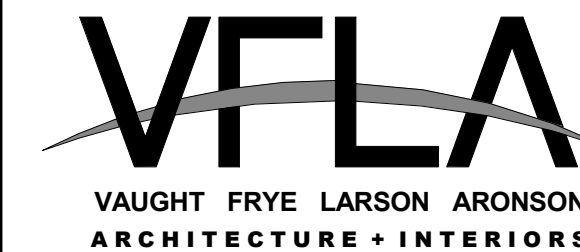
- Ten (10) years if properly registered within ninety (90) days after original installation, parts are warranted to the original purchaser for a period of ten (10) years. Otherwise, parts warranty is five (5) years.

Outdoor - Heat Pump		Performance	
Outdoor Model #		Ductless	
System		Ducted	
Electrical		Mixed	
Operating Range		Capacity	
Piping		Capacity	
Indifferent		Capacity	
Outdoor Coil		Capacity	
Compressor		Capacity	
Airflow & Sound		Capacity	
Dimensions		Capacity	

* Conditioning unit shown in factory indoor unit.

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PROJECT NUMBER: 24-203-KML

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RIPLEY DESIGNSTRUCTURAL ENGINEER:
RAKER RHODESMECHANICAL ENGINEER:
INTEGRATED MEPPLUMBING ENGINEER:
INTEGRATED MEPELECTRICAL ENGINEER:
APS, INC.320 MAPLE ST, SUITE 110
FORT COLLINS, CO 80521
970-556-0570

ISSUED FOR PERMIT

SHEET ISSUANCES

DESCRIPTION	DATE
DESIGN DEVELOPMENT	04-01-2025
ISSUED FOR PERMIT	06-11-2025

SEAL:



11 JUN 2025

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SCHEDULES

DRAWING NUMBER:

M8.8

SCHEDULE FOR: DHP-107 AND DS-107A/B/C

45MCCAQ DS-107B/C One-Way Cassette Ductless System Sizes 6K to 18K

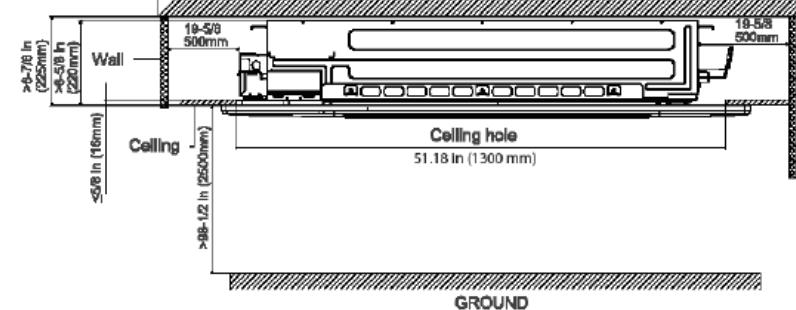


Fig. 1 – Sizes 6K to 18K

NOTE: Images are for illustration purposes only. Actual model may differ slightly.

CLEARANCE

Height and Width



Depth

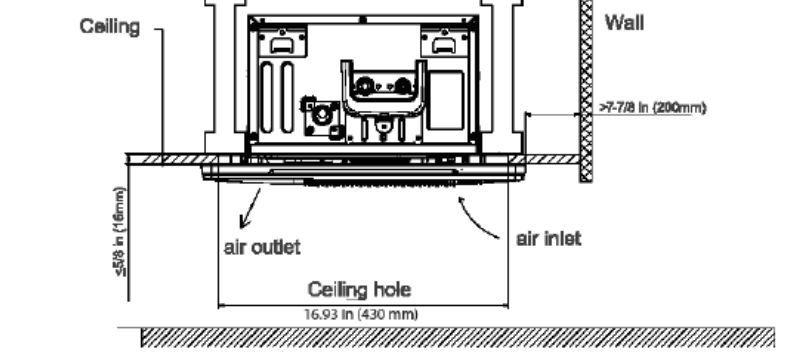


Fig. 11 – Clearance

DIMENSIONS

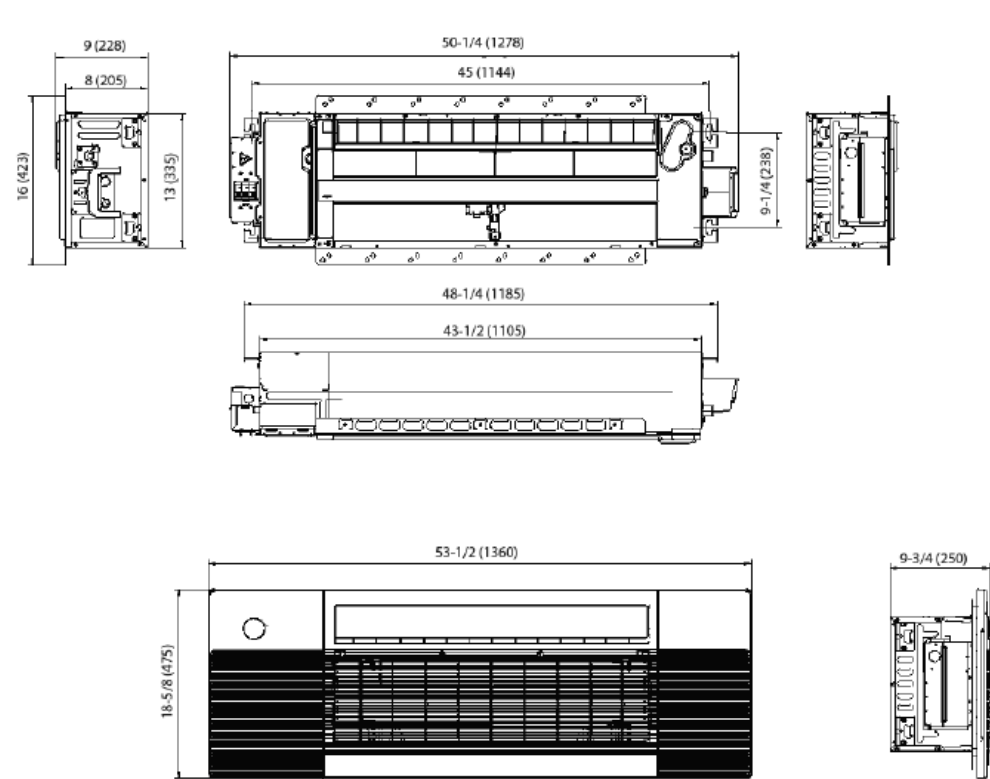


Fig. 10 – Dimensions for All Sizes

SPECIFICATIONS

SIZE		8K	
INDOOR MODEL NUMBER		45MCCAQ08KA3	
Power Supply		V/Ph/Hz	
Unit Dimensions		Height (H)	
		in (mm)	
		Width (W)	
		in (mm)	
		Depth (D)	
		in (mm)	
Weight - Net		lbs. (kg)	
		45.19 (20.5)	
INDOOR FAN SPECIFICATIONS		Material	
		Type	
		Diameter	
		inches	
		Height	
		inches	
		Model	
		Type	
		Input	
		W	
		Max. Input	
		W	
		Output	
		W	
		FLA	
		A	
		Rated HP	
		HP	
		Range of Current	
		Amps	
		Rated Current	
		Amps	
		Speed	
		rev/min	
		Rated RPM	
		rev/min	
		Insulation Class	
		B	
		Safe Class	
		IP20	
		Number of Rows	
		Rows	
		Tube Outside Diameter	
		inches	
		Nominal Tube Wall	
		inches (mm)	
		Tube Enhancement	
		(Yes/No)	
		Tube Material	
		Tube Pitch (a) x Row Pitch (b)	
		inches	
		Coil Length x Height x Width	
		inches	
		Face Area	
		ft ² /m ²	
		Number of Circuits	
		#	
		Liquid	
		in	
		Suction	
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		Suction	
		in	
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Autodesk Docs://First Presbyterian Church/R-24-203-M001-R24.rvt

Outdoor - Heat Pump		
	Outdoor Model #	37MAG3000A
System	Outdoor Sizing	50000
Electrical	Outdoor Power, cfm	298.000
	Motor	40
Draining Range	Heating Outdoor 08 Min. Max.	27.300 - 50.000
	Heating Outdoor 08 Min. Max.	27.300 - 50.000
Piping	Free Cooling Sizing	27.300 - 50.000
	Free Cooling Sizing	27.300 - 50.000
Refrigerant	Refrigerant Sizing	27.300 - 50.000
	Refrigerant Sizing	27.300 - 50.000
Outdoor Coil	Refrigerant Sizing	27.300 - 50.000
	Refrigerant Sizing	27.300 - 50.000
Compressor	Refrigerant Sizing	27.300 - 50.000
	Refrigerant Sizing	27.300 - 50.000
Airflow & Sound	Refrigerant Sizing	27.300 - 50.000
	Refrigerant Sizing	27.300 - 50.000
Dimensions	Refrigerant Sizing	27.300 - 50.000
	Refrigerant Sizing	27.300 - 50.000

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ASIMACQUA			
System	Indoor Model #	ETIM#	4354MAG00003
	Capacity	BTU/h	6,000
	Voltages, Phase, Cycles	V/Ph/Hz	208/1/60
Electrical	Power Supply		Import unit powered by outdoor unit
	NEC		
Operating Range	Cooling Indoor DB Min. - Max	°F/C	50/166F/55F
	Heating Indoor DB Min. - Max	°F/C	32/190F/20F
	Flow rate	Gp. Ft.	2.0
Indoor Unit	No. Rooms		3
	Max. gas line		2
	Gas		2
	Number of Fan Speeds		1000/500/250
Indoor Unit	Leaky Detection (Leakage)	BTU	352.6 / 103.7 / 28.8 (1/2" / 3/4" / 1")
	Pressure Sensor (Adjustable to kPa/cmHg)	BTU	44.6/6.3/2.52 / 32.75/2.35/0.85
	Max. Cold Removal	°C/min	1.0
	Run Time Delay	min	24 (160.7)
	Length	in (cm)	31.5 (80.7)
	Height	in (cm)	13.5 (34.2)
	Weight	lb (kg)	19.5 (8.8)
	Depth	in (cm)	8.6 (21.5)
	Net weight	lb (kg)	22.1 (9.9)
	Net weight	lb (kg)	22.0 (9.9)
	Shipping Weight	lb (kg)	44.2 (20.0)
	Shipping Weight	lb (kg)	24.5 (11.0)
	Shipping Package Weight	lb (kg)	29.0 (13.1)
CONTROLS			
Standard	Wireless Remote Control (7 °F Conversion)		
	Wireless Remote Control (°F Conversion)	ASAC211A318AA	
Optional	Wireless Remote Control with Time Function	ASAC211A318AA	
	WiFi Kit w/ing wall	ASAC211A318AA	
	WiFi Kit w/ing wall	ASAC211A318AA	

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INDOOR UNIT DIMENSIONS

Capacity	Model	W	H	D	P
S09P/2LX	mm	175	225	75	
	inch	6.9	8.9	2.9	
	mm	90	120	30	
	inch	3.5	4.7	1.2	
28C	mm	140	275	75	
	inch	5.5	10.8	2.9	
	mm	90	120	30	
	inch	3.5	4.7	1.2	

SMAHAQ212A3			
System	Indoor Model #	11000	435AHQ212A3
Electrical	Unit Power	V/Ph/Hz	208/230/60
	Uniflow, Phase, Class		major unit connections to outdoor unit
	Power Supply		
Operating Range	Max A	3	1
	Cooling Indoor DB-Min - Max	74/73	60/90/68-115
	Heating Indoor DB-Min - Max	45/46	45-55
	Load Range	54-1/2	2-13
	No. Branches	2	2
Indoor Unit	Free gas ports	20	20
	No. Gas	3	3
Indoor Unit	Number of Air Spouts		11000/200/200
	Carrier Package in Inches	CFM	441.4 (22.2' x 22.2' x 17.6") 147.5
Indoor Unit	Static Pressure (High to Low)	0.84	47.86 (5.75' x 5.75')
Dimensions	Height	ft/in	31 1/2/27
	Air Flow Rate	ft/min	31 60/27
	Net Weight	lb/in	13 13/20/12
	Net Weight	lb/in	31 30/20/20
	Net Weight	lb/in	8 8/22/21
	Depth	ft/in	22 19/21/14
	Shipping Weight	lb/in	22 11/20/12
	Shipping Weight	lb/in	46 24/20/12
	Shipping Weight	lb/in	14 14/12/10
	Shipping Weight	lb/in	22 21/21/14
CONTROLS			
Weather Station Location: 1/4" of Condensation			
Standard	Wind Resistant Control Type: Programmable	K50C0140AAA	
Optional	Wind Resistant Control with Power Function	K50C0150AAA	
	WET TO RUN LOG	K50C0160AAA	
	24/7 Heat Inflation	K50C0170AAA	

NOTE: Images for illustration purposes only. Actual models may be slightly different.

[illegible]

INDOOR UNIT DIMENSIONS				
Capacity	Unit	W	D	H
5K/9K/12K	mm	795	225	295
	inch	31.3	8.86	11.61
18K	mm	965	289	319
	inch	37.99	9.41	12.56
24K ~ 36K	mm	1340	275	370
	inch	44.88	10.83	14.57

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DRAWING NUMBER

M8.10

Outdoor Unit Multizone Heat Pump Ductless System

Outdoor Model: 37MGHA036EA3

DHP-162

Job Date:

Tag #1:

Location:

Turn to the experts

Carrier TRUCK-ORDER

STANDARD FEATURES

- Connect up to 6, multiple style indoor units.
- High Wall
- 4-way Cassette
- 5-way Cassette
- Slim Down
- Floor Console
- Ceiling & Free
- Air Handler
- 100% Heating Capacity on 5° F (-15° C)
- Variable Speed Inverter Compressor
- Reusable Indoor Airway Insulation
- Quiet operation
- Aluminum hydrophilic pre-coated fins

RESTRICTION, APPLICATION LIMITED WARRANTY*

- Ten (10) year if properly registered within ninety (90) days after original installation, parts are warranted to the original purchaser for a period of ten (10) years. Otherwise, parts warranty is the (5) years.

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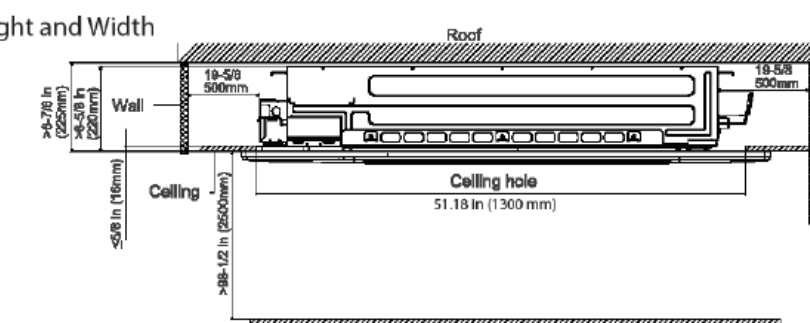
Technical drawings of the 1000 Series LED display, including front, side, and detail views.

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NOTE: Images are for illustration purposes only. Actual model may differ slightly.

Height and Width



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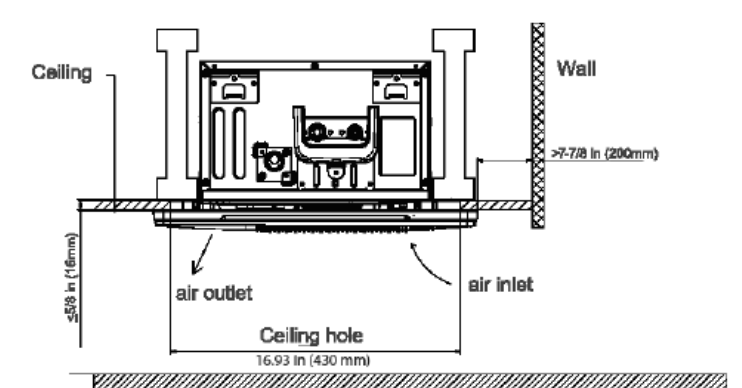


Fig. 1

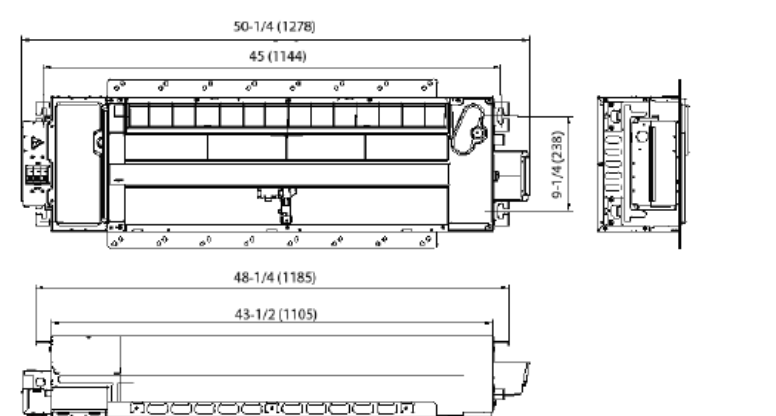


Fig. 10 – Dimensions for All Sizes

Table 3 - Specifications						
SIZE		BK				
INDOOR MODEL NUMBER		45CMCAQ86XA3				
Power Supply		V,Ph/Hz				
Unit Dimensions		Height (H)	in (mm)	8.96 (228)		
		Width (W)	in (mm)	50.31 (1278)		
		Depth (D)	in (mm)	13.19 (335)		
Weight - Net		lbs. (kg)	45.19 (20.5)			
INDOOR FAN SPECIFICATIONS		Material	-			
		Type	-			
		Diameter	inch	3.7		
			mm	94		
		Height	inch	32.3		
INDOOR MOTOR SPECIFICATIONS			mm	620		
		Model	-			
		Type	-			
		Input	W	34.9		
		Max. input	W	78.6		
		Output	W	30		
		FLA	A	0.8		
		Rated HP	HP	0.04		
		Range of Current	Amps	0.35x10%		
		Rated Current	Amps	0.35		
		Speed	rev/min	1024/644/754		
		Rated RPM	rev/min	1024		
		Insulation Class	-			
		Safe Class	- #P20			
		INDOOR REFRIGERANT COIL SPECIFICATIONS		Number of Rows	2	
Tube Outside Diameter	inch			0.276		
	mm			Ø7		
Nominal Tube Wall	inch			0.00945 (0.24)		
Tube Enhancement (Yes/No)	Yes					
Tube Material	-					
Tube Pitch (a) x Row Pitch (b)	inch			0.83 x 0.53		
	mm			21x13.37		
Fin Spacing	FPI			20		
	mm			1.3		
PIPING		Fin Type	-			
		Fin Material	-			
		Coil Length x Height x Width	inch	32.68x7.44x1.05+32.68x7.44x1.05		
			mm	830*189*26.74+830*126*26.74		
		Face Area	ft ² /CM ²	2.81/2610		
PIPING		Number of Circuits	#	3		
		Liquid	in	Ø11/4		
			mm	Ø6.35		
			Suction	in	Ø3/8	
mm	Ø2					
ENVIRONMENTAL SPECIFICATIONS		Cooling Operating Range		Indoor Min - Max DB	°F	63-90
					(°C)	(18-32)
				Indoor Min - Max WB	°F	59-84
		Heating Operating Range			(°C)	(15-29)
				Outdoor Min - Max DB	°F	22-122
					(°C)	(30-50)
		Non-operating environment Storage	Indoor Min - Max DB	°F	32-86	
				(°C)	(0-90)	
			Outdoor Min - Max DB	°F	-22-75	
		Operation Humidity		(°C)	(-8-90)	
Ambient Humidity	Temperature Range (DB)		°F	-49-140		
			(°C)	(-45-60)		

419 Canyon Ave Suite 200, Fort Collins, CO 80521 | 970.224.1191
108 East Lincoln Way, Cheyenne, WY 82001 | 307.635.5710
www.VFLA.com

IN ASSOCIATION WITH:

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES

**MECHANICAL ENGINEER:
INTEGRATED MEP**

PLUMBING ENGINEER
INTEGRATED MEP

ELECTRICAL ENGINEER:
APS, INC.



**INTEGRATED
MEP**

320 MAPLE ST, SUITE 110
FORT COLLINS, CO 80521
970-556-0570

ISSUED FOR PERMIT

SHEET ISSUANCES

<u>DESCRIPTION</u>	<u>DATE</u>
DESIGN DEVELOPMENT	04-01-2025
ISSUED FOR PERMIT	06-11-2025

SEARCH



11 JUN 2025

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MECHANICAL SCHEDULES

DRAWING NUMBER

M8.1 1

PROJECT NUMBER: 2022-104



COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: First Presbyterian Church
Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Education Wing (School/University)	24000	0.72	17280
Total Allowed Watts = 17280			

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Education Wing (School/University, 24000 sq.ft.)				
LED: CP2dt: Other:	1	27	37	999
LED: CP2e: Other:	1	17	37	629
LED: CP4dt: Other:	1	37	37	1369
LED: D: Other:	1	2	14	28
LED: D2: Other:	1	3	91	273
LED: S10dt: Other:	1	88	133	11704
LED: V: Other:	3	2	18	36
LED: W4d: Other:	1	16	35	560
LED: W4e: Other:	1	30	35	1050
Total Proposed Watts =				16648

Interior Lighting PASSES

Interior Lighting Compliance
Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Chuck Polson P.E. Signature Date 6/10/2025

Project Title: First Presbyterian Church Report date: 06/10/25
Data filename: Page 1 of 6



COMcheck Software Version COMcheckWeb
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: First Presbyterian Church
Project Type: Alteration
Exterior Lighting Zone: 2 (Residentially zoned area (LZ2))

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Tradable Wattage	D Tradable Wattage	E Allowed Watts (B X C)
Pedestrian and vehicular entrances and exits	6 ft of door	14	Yes	84
Total Tradable Watts (a) =				84
Total Allowed Watts =				84
Total Allowed Supplemental Watts (b) =				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Pedestrian and vehicular entrances and exits (6 ft of door width): Tradable Wattage				
LED: AAe: Other:	1	1	12	12
LED: BBe: Other:	1	2	29	58
Total Tradable Proposed Watts =				70

Exterior Lighting PASSES

Exterior Lighting Compliance
Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

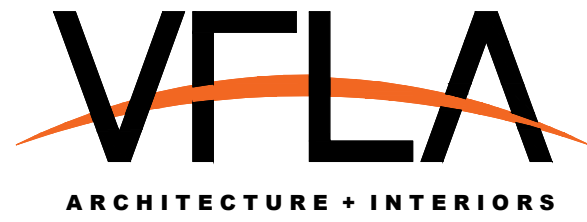
Chuck Polson P.E. Signature Date 6/10/2025

Project Title: First Presbyterian Church Report date: 06/10/25
Data filename: Page 2 of 6

PROJECT NUMBER: 2022-104

FIRST
PRESBYTERIAN
CHURCH -
EDUCATION WING
RENOVATION

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FORT COLLINS, CO. 80524



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STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

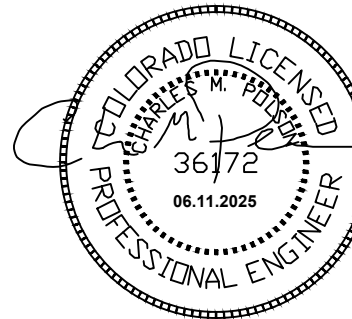
ELECTRICAL ENGINEER:
APS, INC.

PERMIT

SHEET ISSUANCES

DESCRIPTION DATE
PERMIT 06-11-2025

SEAL:



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ELECTRICAL
COM-CHECK

DRAWING NUMBER:

E0.2

Hello,

Regards,
.....
Marq Nichol, RA
Plans Examiner, Building Services
[City of Fort Collins](#)

Chuck Polson P.E.
Adonai Professional Services, Inc.
3135 Laminar Court
Timnath, CO 80547
303-287-8091
970-381-7462 cell
chuck@apsinc.biz
web site: apsinc.biz

From: Marq Nichol <mnichol@fcgov.com>
Sent: Thursday, May 22, 2025 3:33 PM
To: Sean Kemper <sean.kemper@elderconstructioninc.com>
Cc: Justin Howard-Finn <justin.howard@elderconstructioninc.com>; Ryan Brunk <ryan.brunk@elderconstructioninc.com>

Sean Kemper
Project Engineer
cell 970.698.1263
office 970.744.4731
7380 Greendale Road, Suite A, Windsor, CO 80550
elderconstructioninc.com

ELECTRICAL ENGINEER
APS, INC.

E0.3

FEEDER SCHEDULE

- (MEDN) REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR FEEDER REQUIREMENTS
- (TVSS) (4 #10 THWN CU & 1 #10 CU GRD) TWIST CONDUCTORS AND MAKE LEAD LENGTHS AS SHORT AS POSSIBLE.
- (METER) (PULL STRING) 1" C
- (PHONE) (PULL STRING) 1" C TO ABOVE AN ACCESSIBLE CEILING FOR A PHONE LINE PROVIDED BY OTHERS.
- (SEC 400) #6 CU GROUND
- (SEC 400) #4 CU GROUND
- (SEC 400) #3/0 CU GROUND
- (100Y) (4 #1 THWN CU & 1#8 CU GRD) 2" C
- (110A) (3 #1 THWN CU & 1#6 CU GRD) 1-1/4" C
- (250Y) (4#250MCM THWN CU & 1#4 CU GRD)2.5" C
- (400Y) 2--RUNS[(4#3/0 THWN CU & 1#3 CU GRD)2" C]
- (500Y) 2--RUNS[(4#250 THWN CU & 1#2 CU GRD)2.5" C]
- (1200) 4--RUNS[(4#500 MCM XHHW-2 AL)4" C]

REFERENCE NOTES

- ① ENERGY MONITORING (2021 IECC C405.12):
PROVIDE EGAUGE SUB-METERING SOLUTION INCLUDING CTS FOR THE
FOLLOWING 208V POINTS AT THE MAIN DISTRIBUTION PANEL (MDP):

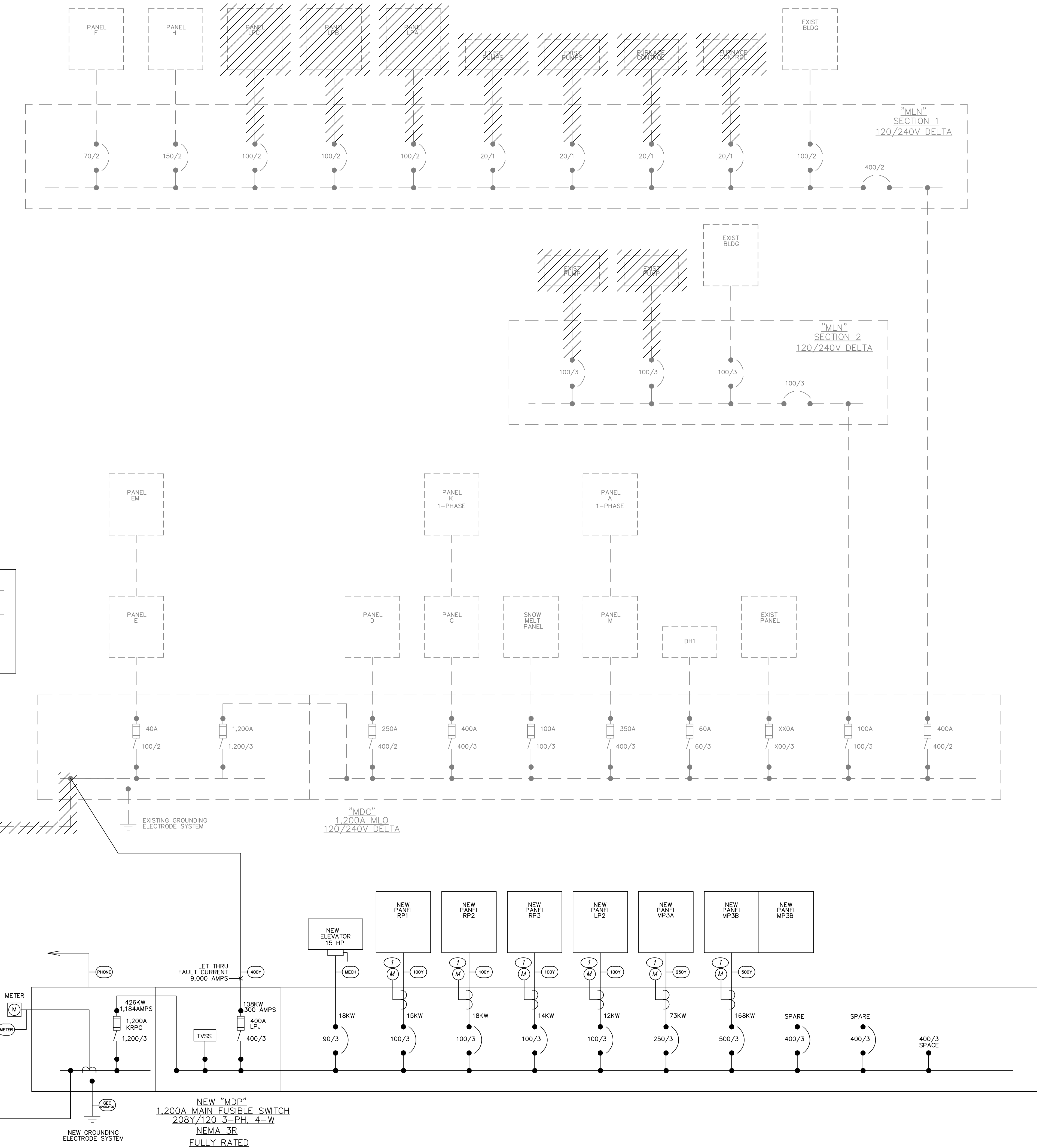
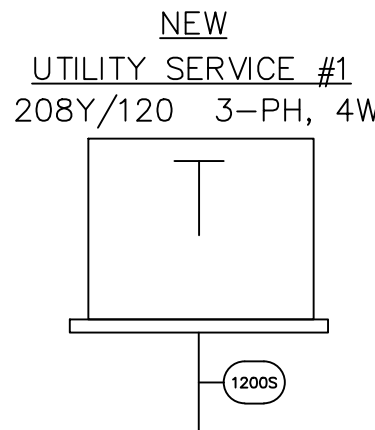
EXISTING HIGH DEMAND PER UTILITY COMPANY:	96 KW
NEC 220.87 (125%):	24 KW
SUB-TOTAL:	120 KW
REMOVED LOAD	-12 KW
TOTAL:	108 KW

108KW @ 208Y/120V = 300 AMPS

PROVIDE A 400AMP BACK-FEED TO EXISTING MDC

SHORT CIRCUIT CALCULATIONS									
FEEDER DATA					POWER			SHORT CIRCUIT	
DESC.	QTY(n)	SIZE	Cu/Al	Lft	C	PH	V	f	IscA
500 KVA 208Y/120V PAD TRANSFORMER									49,355
MDP	4	500	AL	50	21391	3	208	0.2401	0.8064
									39,800
PANEL RP1	1	1	CU	15	7293	3	208	0.6816	0.5946
									23,666
PANEL RP2	1	1	CU	15	7293	3	208	0.6816	0.5946
									23,666
PANEL RP3	1	1	CU	25	7293	3	208	1.1360	0.4681
									18,630
PANEL L2	1	1	CU	15	7293	3	208	0.6816	0.5946
									23,666
PANEL MP3A	1	250	CU	15	16483	3	208	0.3016	0.7682
									30,575
PANEL MP3B	2	250	CU	150	16483	3	208	1.5080	0.3987
									15,870
MDP	2	3/0	CU	15	12844	3	208	0.1935	0.8378
									33,348

FEED EXISTING MDC WITH LPJ FUSES: LET THRU CURRENT @400AMP = 9,000 AMPS



PANELBOARD "MP3A" SCHEDULE															
MAIN BUS: 400 AMP			LOAD-VA	LOAD-VA				LOCATION: LVL 3 HALL							
VOLTAGE: 208Y/120V, 3-PH, 4W.								MOUNTING: FLUSH							
PANEL TYPE: LTG. & APPL.							MINIMUM AIC: SERIES RATE								
CKT. NO.	AMPS	POLES	LOAD SERVED	LTG.	RECP.	MECH.	SPARE	PHASE	LTG.	RECP.	MECH.	SPARE	LOAD SERVED	AMPS	POLES
1	20	1	*ROOF TOP REC	-	180	-	-	A	-	-	7072	-	DHP-301A	35	2
3	35		DHP-103B	-	-	-	-	B	-	-	-	-		2	4
5	2			-	-	-	-	C	-	-	7072	-	DHP-301B	35	6
7	35		DHP-103C	-	-	-	-	A	-	-	-	-		2	8
9	2			-	-	-	-	B	-	-	7072	-	DHP-303B	35	10
11	40	2	DHP-162	-	-	-	-	C	-	-	-	-		2	12
13	2			-	-	-	-	A	-	-	7072	-	DHP-304B	35	14
15	40		DHP-201	-	-	-	-	B	-	-	-	-		2	16
17	2			-	-	-	-	C	-	-	3640	-	DHP-355	20	18
19	40		DHP-255	-	-	-	-	A	-	-	7696	-		2	20
21	2			-	-	-	-	B	-	-	-	-	SPARE	40	22
23	35		SPARE	-	-	-	-	C	-	-	-	-		2	24
25	2			-	-	-	-	A	-	-	1350	-	LVL 1 CH-6,7,8	20	26
27	20	1	PP-1	-	-	-	-	B	-	-	-	-		2	28
29	20	1	SPARE	-	-	-	-	C	-	-	900	-	LVL 1 CH-4,5	20	30
31	20	1	SPARE	-	-	-	-	A	-	-	-	-		2	32
33	20	1	SPARE	-	-	-	-	B	-	-	1350	-	LVL 1 CH-1,2,3	20	34
35	20	1	SPARE	-	-	-	-	C	-	-	-	-		2	36
37	20	1	SPARE	-	-	-	-	A	-	-	-	-	SPARE	20	1
39	20	1	SPARE	-	-	-	-	B	-	-	-	-	SPARE	20	1
41	20	1	SPARE	-	-	-	-	C	-	-	-	-	SPARE	20	1
CONN. LOAD				-	180	37432	-	-	-	35528	-	-	CONN. LOAD		
% DF				-	125	NEC 100	-	-	125	100	100	-	% DF		
EMD				-	-	180	37432	-	-	-	35528	-	EMD		
EMD =73,140 VA				= 204 AMPS				MAIN BREAKER SIZE:				-			
SYS. VOLT 208V3								OR MAIN LUG ONLY (MLO):				400 A			

* GFCI

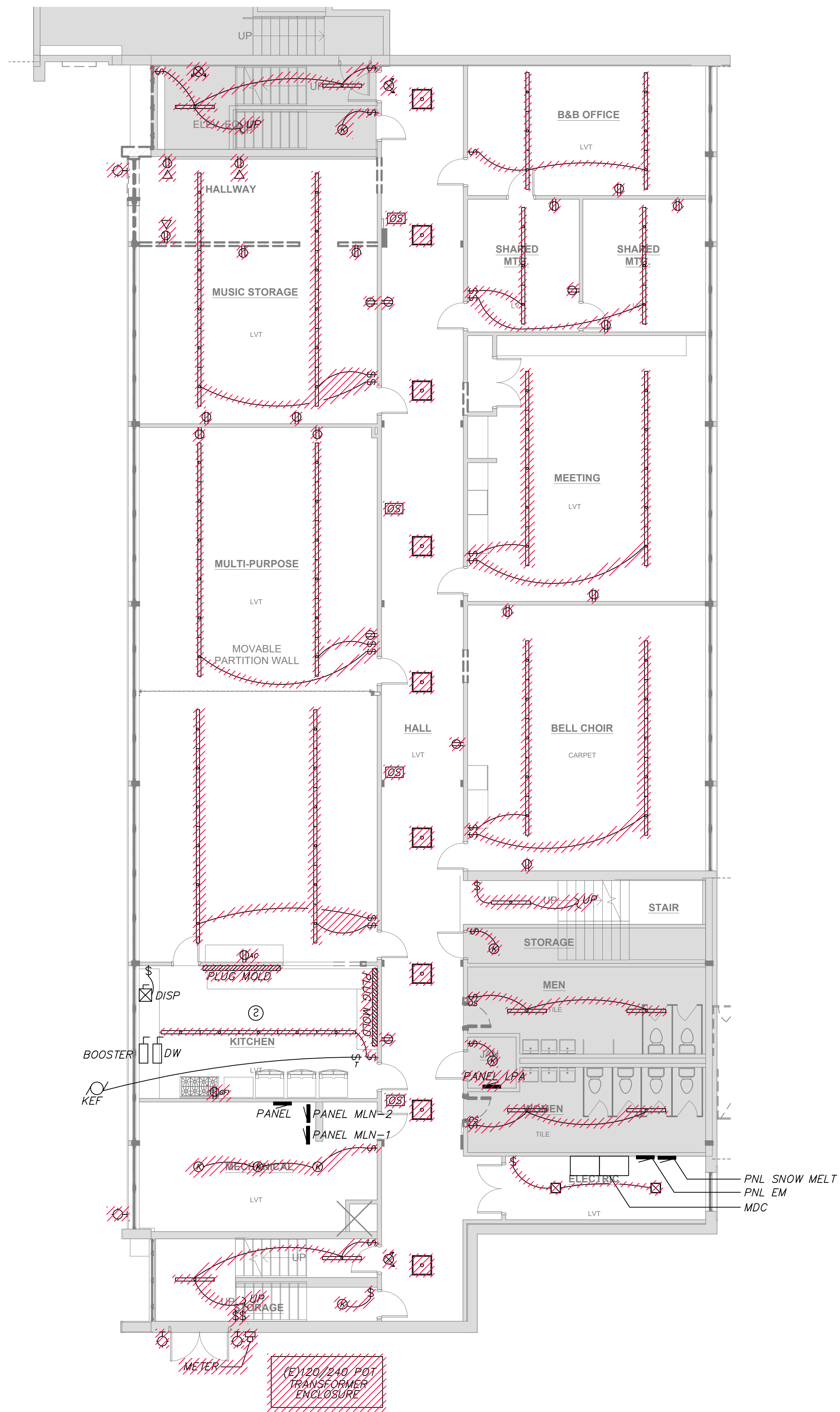
PANELBOARD "MP3B SEC-1" SCHEDULE(FEED THRU LUGS)																
MAIN BUS: 600 AMP				LOAD-VA				LOAD-VA				LOCATION: LVL 3 HALL				
VOLTAGE: 208Y/120V, 3-PH, 4W.												MOUNTING: FLUSH				
PANEL TYPE: LTG. & APPL.												MINIMUM AIC: SERIES RATE				
CKT. NO.	AMPS	POLES	LOAD SERVED	LTG.	RECP.	MECH.	SPARE	PHASE	LTG.	RECP.	MECH.	SPARE	LOAD SERVED	AMPS	POLES	
1	90		MAU-1	-	-	2808C	-	A	-	-	4000	-	EF-1	20	2	
3				-	-		-	B	-	-		-		3	4	
5	3			-	-		-	C	-	-		-		3	6	
7	20	1	MAU-1	-	-	180	200	A	-	-	360	-	ROOF TOP REC	20	1	
9	20		DHP-2	-	-	3640	-	B	-	-	7072	-	DHP-204	35	10	
11	2			-	-		-	C	-	-		-		2	12	
13	20		DHP-3	-	-	3640	-	A	-	-	7072	-	DHP-208A	35	14	
15	2			-	-		-	B	-	-		-		2	16	
17	35		DHP-102	-	-	7072	C	-	-	-	7072	-	DHP-208B	35	18	
19	2			-	-		-	A	-	-		-		40	20	
21	35		DHP-103A	-	-	7072	B	-	-	-	7696	-	DHP-209	40	22	
23	2			-	-	7072	C	-	-	-	7072	-		2	24	
25	35		DHP-104	-	-	7072	A	-	-	-	7072	-	DHP-251	35	26	
27	2			-	-		-	B	-	-		-		2	28	
29	40		DHP-107	-	-	7696	C	-	-	-	7072	-	DHP-303A	35	30	
31	2			-	-		-	A	-	-		-		2	32	
33	40		DHP-151	-	-	7696	B	-	-	-	7072	-	DHP-304A	35	34	
35	2			-	-		-	C	-	-		-		2	36	
37	35		DHP-203	-	-	7072	A	-	-	-	7696	-	DHP-305AB	40	38	
39	2			-	-		-	B	-	-		-		2	40	
41	20	1	SPARE	-	-		-	C	-	-	1200	-	SP-2	20	1	
CONN. LOAD				-	180	79241	-	-	-	360	63024	-	CONN. LOAD			
% DF				-	125	NEC 100	-	-	-	125	100	100	-	% DF		
EMD				-	-	180	79241	-	-	-	360	63024	-	EMD		
EMD =142,805 VA				= 397 AMPS				MAIN BREAKER SIZE: -								
SYS. VOLT 208V3								OR MAIN LUG ONLY (MLO): 600 A								

* GFCI

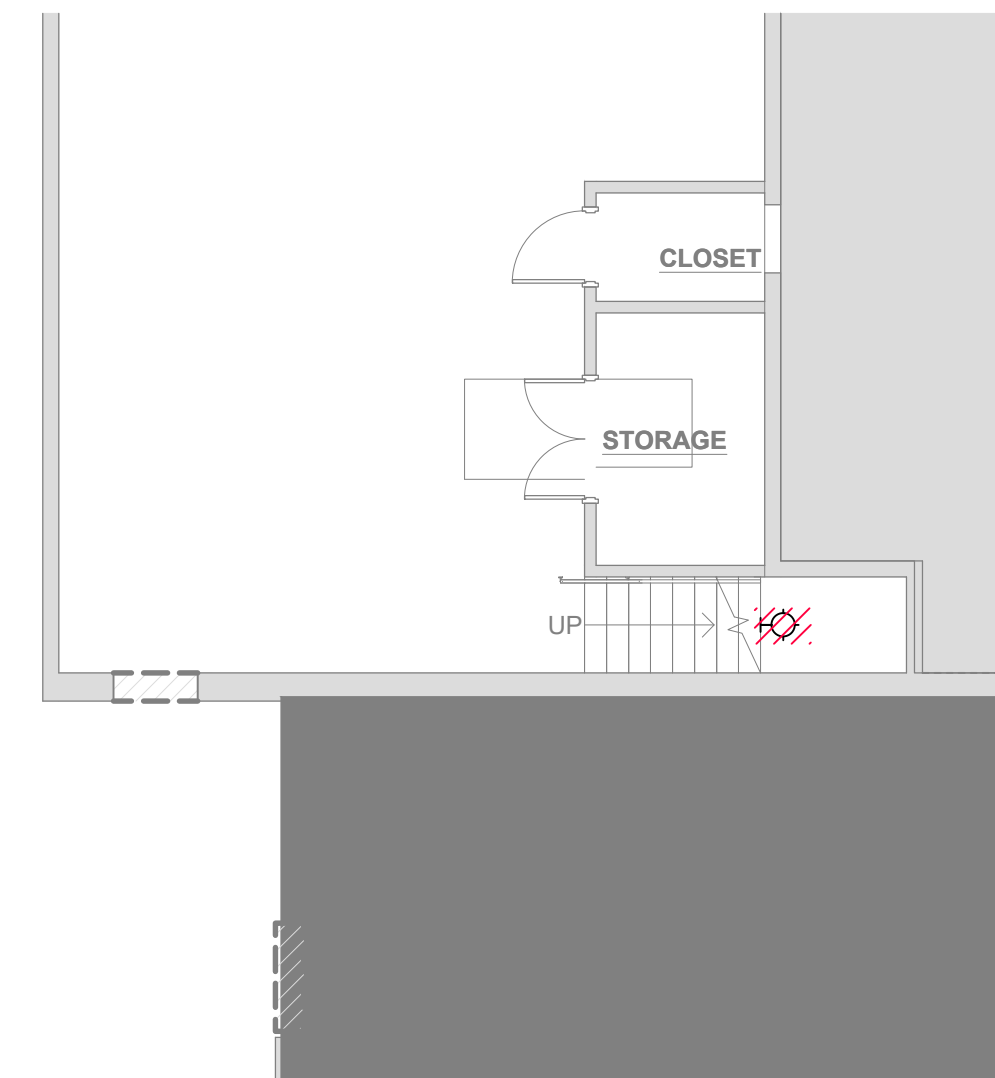
PANELBOARD "MP3B SEC-2" SCHEDULE																
MAIN BUS: 600 AMP				LOAD-VA				LOAD-VA				LOCATION: LVL 3 HALL				
VOLTAGE: 208Y/120V, 3-PH, 4W.												MOUNTING: FLUSH				
PANEL TYPE: LTG. & APPL.												MINIMUM AIC: SERIES RATE				
CKT. NO.	AMPS	POLES	LOAD SERVED	LTG.	RECP.	MECH.	SPARE	PHASE	LTG.	RECP.	MECH.	SPARE	LOAD SERVED	AMPS	POLES	CKT. NO.
1	20		DHP-305CD	-	-	3640	-	A	-	-	7072	-	DHP 307	35	2	2
3	2			-	-		-	B	-	-		-		2	4	4
5	20		DHP-306	-	-	7696	-	C	-	-	7072	-	DHP 308	35	2	6
7	2			-	-		-	A	-	-		-		2	8	8
9	40		SPARE	-	-		-	B	-	-		-	SPARE	20	1	10
11	2			-	-		-	C	-	-		-	SPARE	20	1	12
13	35		SPARE	-	-		-	A	-	-		-	SPARE	20	1	14
15	2			-	-		-	B	-	-		-	SPARE	20	1	16
17			SPACE	-	-		-	C	-	-		-	SPACE	20	1	18
19			SPACE	-	-		-	A	-	-		-	SPACE	20	1	20
21			SPACE	-	-		-	B	-	-		-	SPACE	20	1	22
23			SPACE	-	-		-	C	-	-		-	SPACE	20	1	24
25			SPACE	-	-		-	A	-	-		-	SPACE	20	1	26
27			SPACE	-	-		-	B	-	-		-	SPACE	20	1	28
29			SPACE	-	-		-	C	-	-		-	SPACE	20	1	30
31			SPACE	-	-		-	A	-	-		-	SPACE	20	1	32
33			SPACE	-	-		-	B	-	-		-	SPACE	20	1	34
35			SPACE	-	-		-	C	-	-		-	SPACE	20	1	36
37			SPACE	-	-		-	A	-	-		-	SPACE	20	1	38
39			SPACE	-	-		-	B	-	-		-	SPACE	20	1	40
41			SPACE	-	-		-	C	-	-		-	SPACE	20	1	42
CONN. LOAD				-	-	11336	-	-	-	14144	-	-	CONN. LOAD			
% DF				125	NEC	100	-	-	125	100	100	-	% DF			
EMD				-	-	11336	-	-	-	14144	-	-	EMD			
EMD = 25,480 VA				= 71 AMPS				MAIN BREAKER SIZE: -								
SYS. VOLT 208V3								OR MAIN LUG ONLY (MLO): 600 A								

* GFCI

PANELBOARD "RP1" SCHEDULE																
MAIN BUS: 100 AMP				LOAD-VA				LOAD-VA				LOCATION: LVL 1 HALL				
VOLTAGE: 208Y/120V, 3-PH, 4W.												MOUNTING: FLUSH				
PANEL TYPE: LTG. & APPL.												MINIMUM AIC: SERIES RATE				
CKT. NO.	AMPS	POLES	LOAD SERVED	LTG.	RECP.	MECH.	SPARE	PHASE	LTG.	RECP.	MECH.	SPARE	LOAD SERVED	AMPS	POLES	CKT. NO.
1	*20	1	GEN REC	-	1080	-	-	A	-	1620	-	-	BELL CHOIR REC	20	1	2
3	*20	1	KITCHEN REC	-	1080	-	-	B	-	-	-	-	SPARE	20	1	4
5	*20	1	KITCHEN REC	-	540	-	-	C	-	900	-	-	FLEX SPACE REC	20	1	6
7	*20	1	KITCHEN REC	-	540	-	-	A	-	-	-	-	SPARE	20	1	8
9	*20	1	KITCHEN REC	-	540	-	-	B	-	720	-	-	OFFICE REC	20	1	10
11	*20	1	KITCHEN REC	-	540	-	-	C	-	1080	-	-	OFFICE REC	20	1	12
13	*20	1	KITCHEN REC	-	540	-	-	A	-	900	-	-	B&G OFFICE REC	20	1	14
15	*20	1	KITCHEN REC	-	540	-	-	B	-	360	-	-	CONDENSATE PUMP	20	1	16
17	*20	1	KITCHEN REC	-	1080	-	-	C	-	-	-	-	SPARE	*20	1	18
19	20	1	MULTI PURPOSE REC	-	540	-	-	A	-	-	-	-	SPARE	*20	1	20
21	20	1	MULTI PURPOSE REC	-	540	-	-	B	-	-	-	-	SPARE	20	1	22
23	20	1	MULTI PURPOSE REC	-	1080	-	-	C	-	-	-	-	SPARE	20	1	24
25	*20	1	KITCHEN REC	-	1080	-	-	A	-	-	-	-	SPARE	20	1	26
27	20	1	OFFICE REC	-	1080	-	-	B	-	-	-	-	SPARE	20	1	28
29	20	1	SPARE	-	-	-	-	C	-	-	-	-	SPARE	20	1	30
31	20	1	SPARE	-	-	-	-	A	-	-	-	-	SPARE	20	1	32
33	20	1	OFFICE REC	-	900	-	-	B	-	-	-	-	SPARE	20	1	34
35	20	1	ELEVATOR SHAFT/PIT	100	360	-	-	C	-	-	-	-	SPARE	20	1	36
37	20	1	ELEVATOR CAB LTS	500	-	-	-	A	-	-	-	-	SPARE	20	1	38
39	20	1	ELEVATOR RECALL	-	500	-	-	B	-	-	-	-	SPARE	20	1	40
41	20	1	ELEVATOR DISC RM	50	180	-	-	C	-	180	-	-	ELEVATOR SUMP PUMP	20	1	42
CONN. LOAD				650	11640	500	-	-	5400	-	-	-	CONN. LOAD			
% DF				125	1000	100	-	-	125	100	100	-	% DF			
END				813	NECC	500	-	-	3520	-	-	-	END			
END = 14,833 VA				= 42 AMPS				MAIN BREAKER SIZE:				-				
SYS. VOLT 208V $\sqrt{3}$								OR MAIN LUG ONLY (MLO):				100 A				



1 EDUCATION WING BASEMENT ELECTRICAL DEMO PLAN
SCALE: 1/8" = 1'-0"



2 BASEMENT LEVEL ELECTRICAL DEMO PLAN
SCALE: 1/8" = 1'-0"

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524



419 CANYON AVE STE 200, FORT COLLINS, CO 80521
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

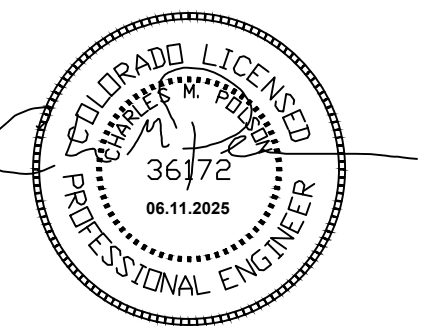
MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

ELECTRICAL ENGINEER:
APS, INC.

PERMIT

SHEET ISSUANCES	DATE
DESCRIPTION	
PERMIT	06-11-2025

SEAL:

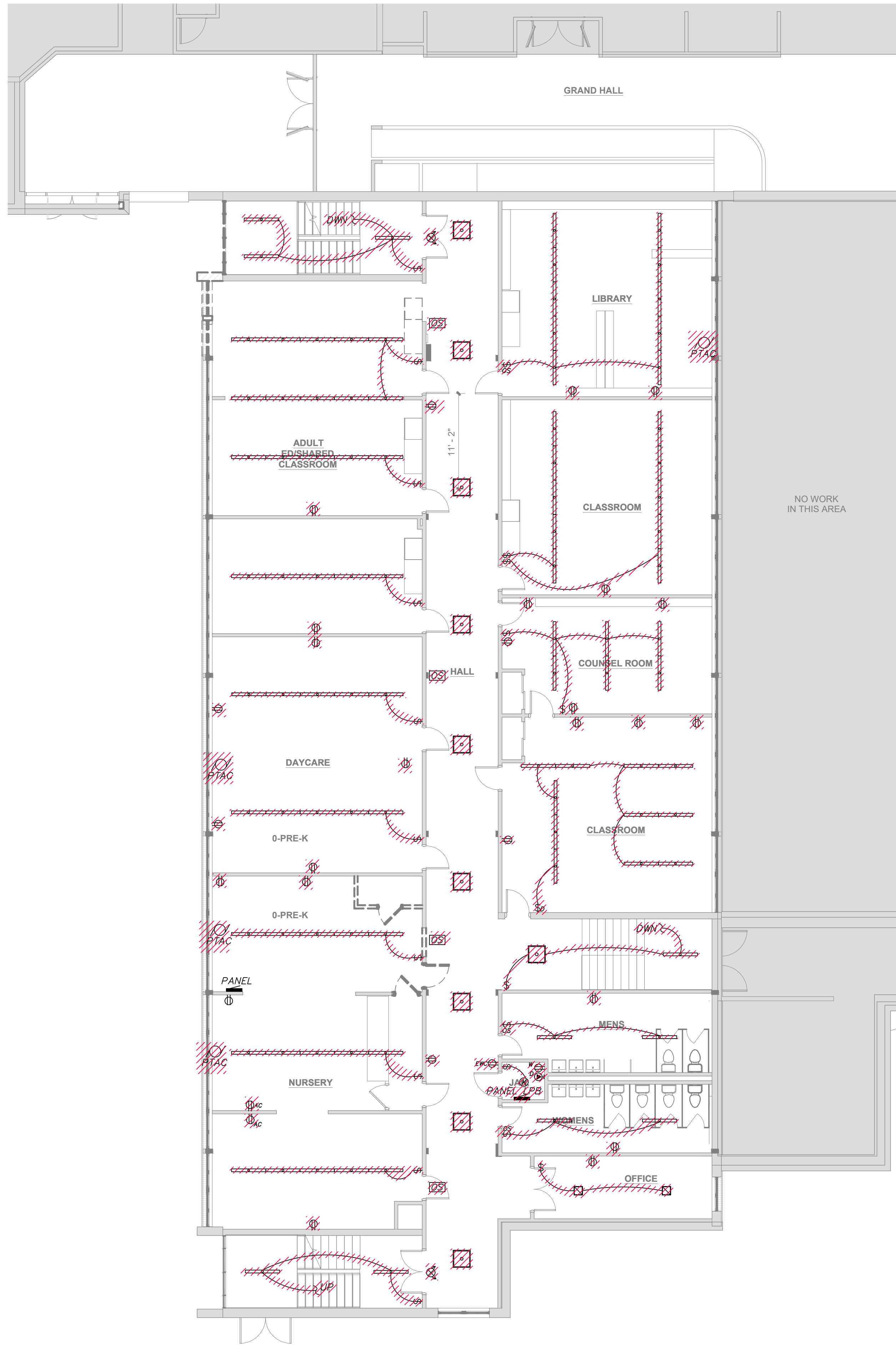


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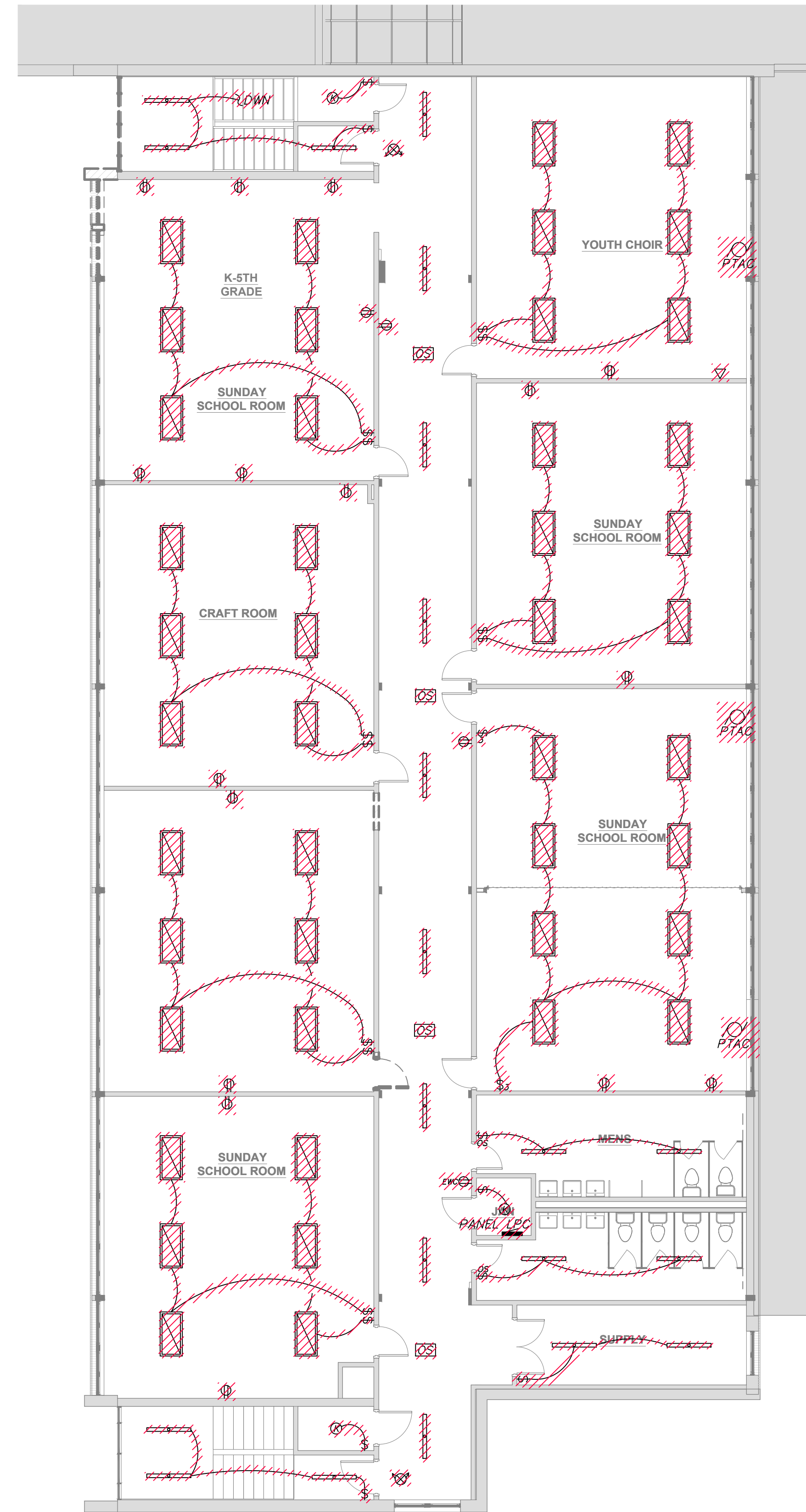
ELECTRICAL DEMO PLANS

DRAWING NUMBER:

E2.0



1 EDUCATION WING FIRST FLOOR ELECTRICAL DEMO PLAN
SCALE: 1/8" = 1'-0"

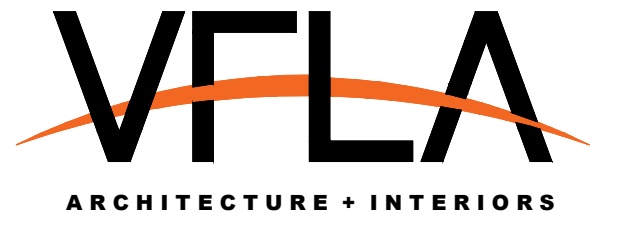


1 EDUCATION WING SECOND FLOOR ELECTRICAL DEMO PLAN
SCALE: 1/8" = 1'-0"

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524



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STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

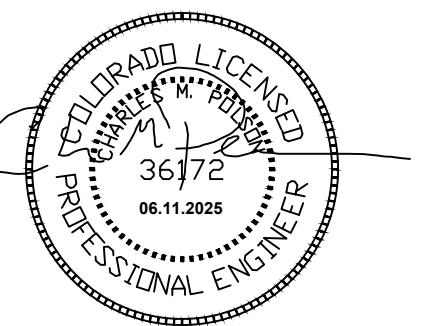
MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

ELECTRICAL ENGINEER:
APS, INC.

PERMIT

SHEET ISSUANCES	DATE
DESCRIPTION	
PERMIT	06-11-2025

SEAL:

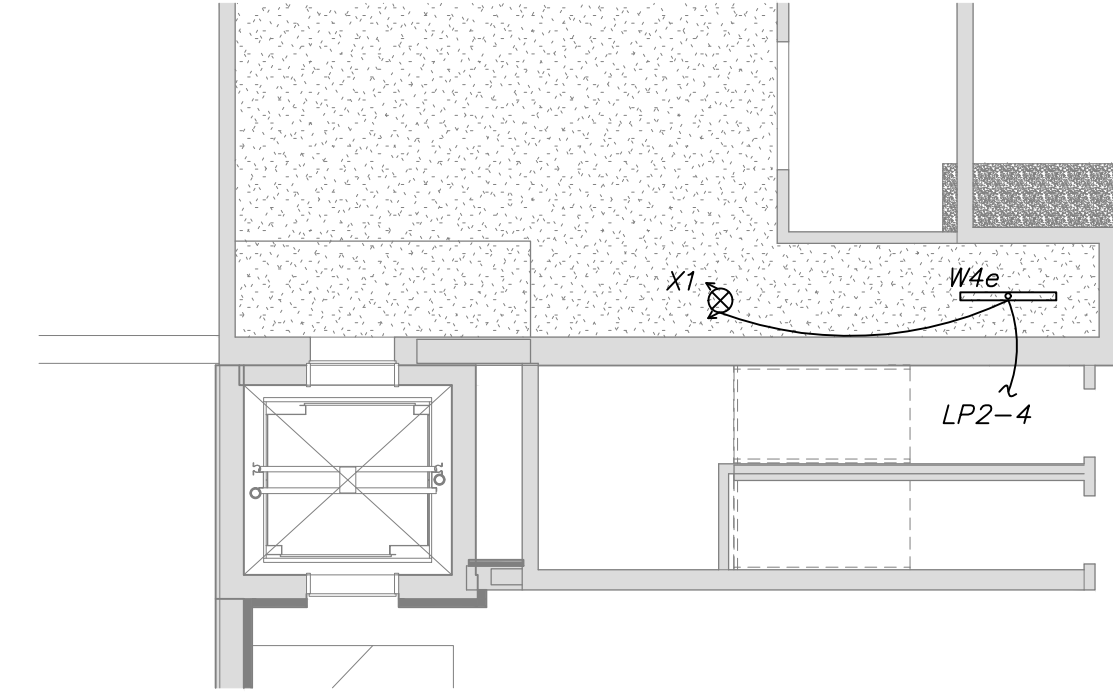
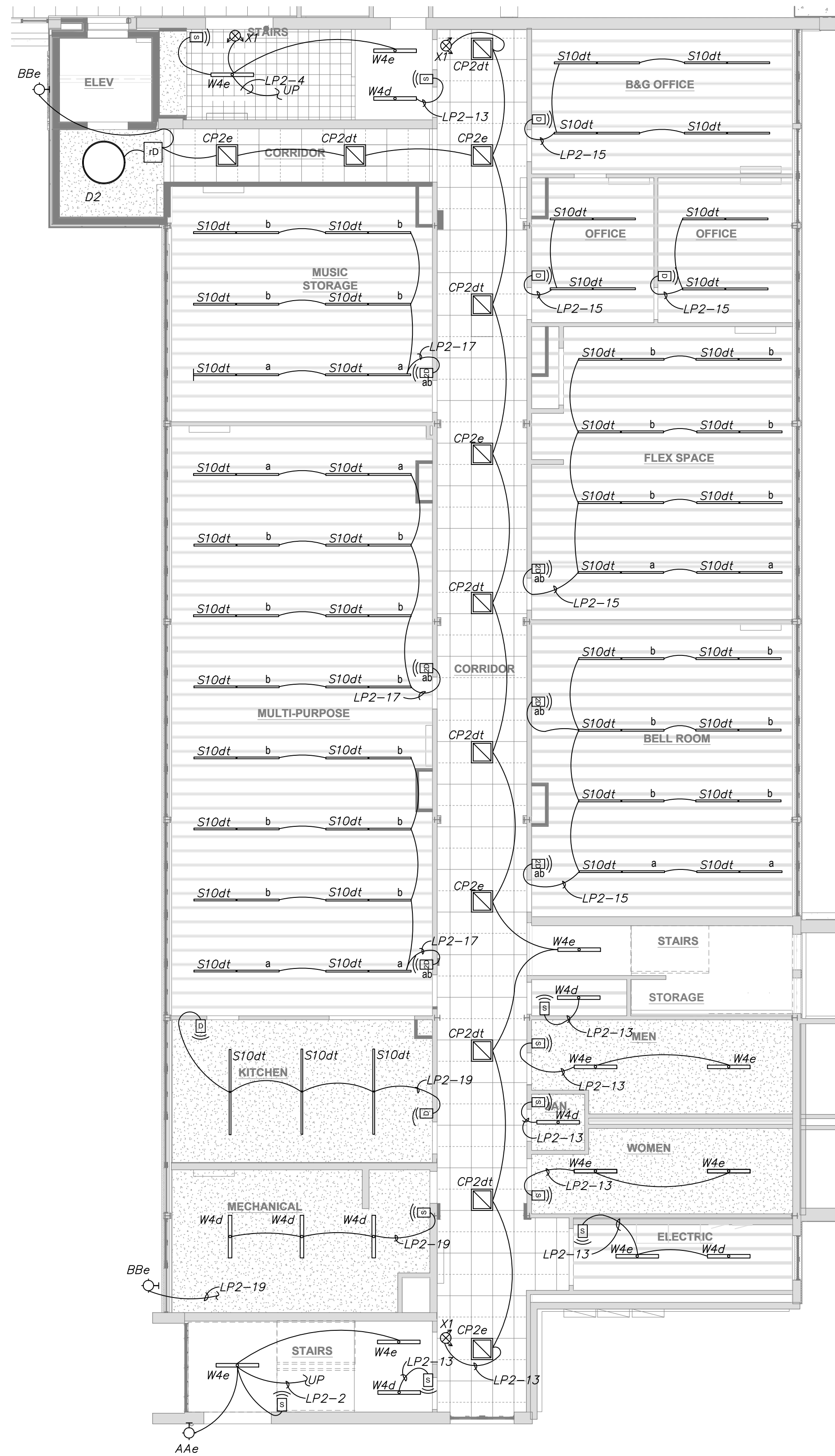


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ELECTRICAL DEMO PLANS

DRAWING NUMBER:

E2.1



2 BASEMENT LEVEL NEW ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

1 EDUCATION WING BASEMENT NEW ELECTRICAL LIGHTING
SCALE: 1/8" = 1'-0"

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524



419 CANYON AVE STE 200, FORT COLLINS, CO 80521
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STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

ELECTRICAL ENGINEER:
APS, INC.

PERMIT

SHEET ISSUANCES	DATE
DESCRIPTION	DATE
PERMIT	06-11-2025

SEAL:



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ELECTRICAL LIGHTING PLANS

DRAWING NUMBER:

E3.0

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FORT COLLINS, CO. 80524

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STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

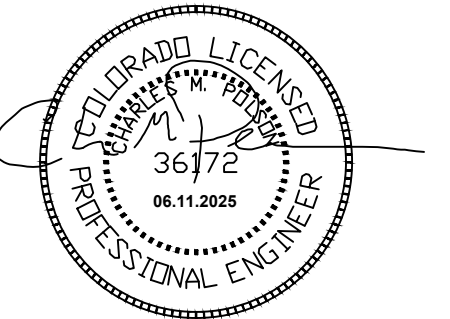
MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

ELECTRICAL ENGINEER:
APS, INC.

PERMIT

SHEET ISSUANCES	
DESCRIPTION	DATE
PERMIT	06-11-2025

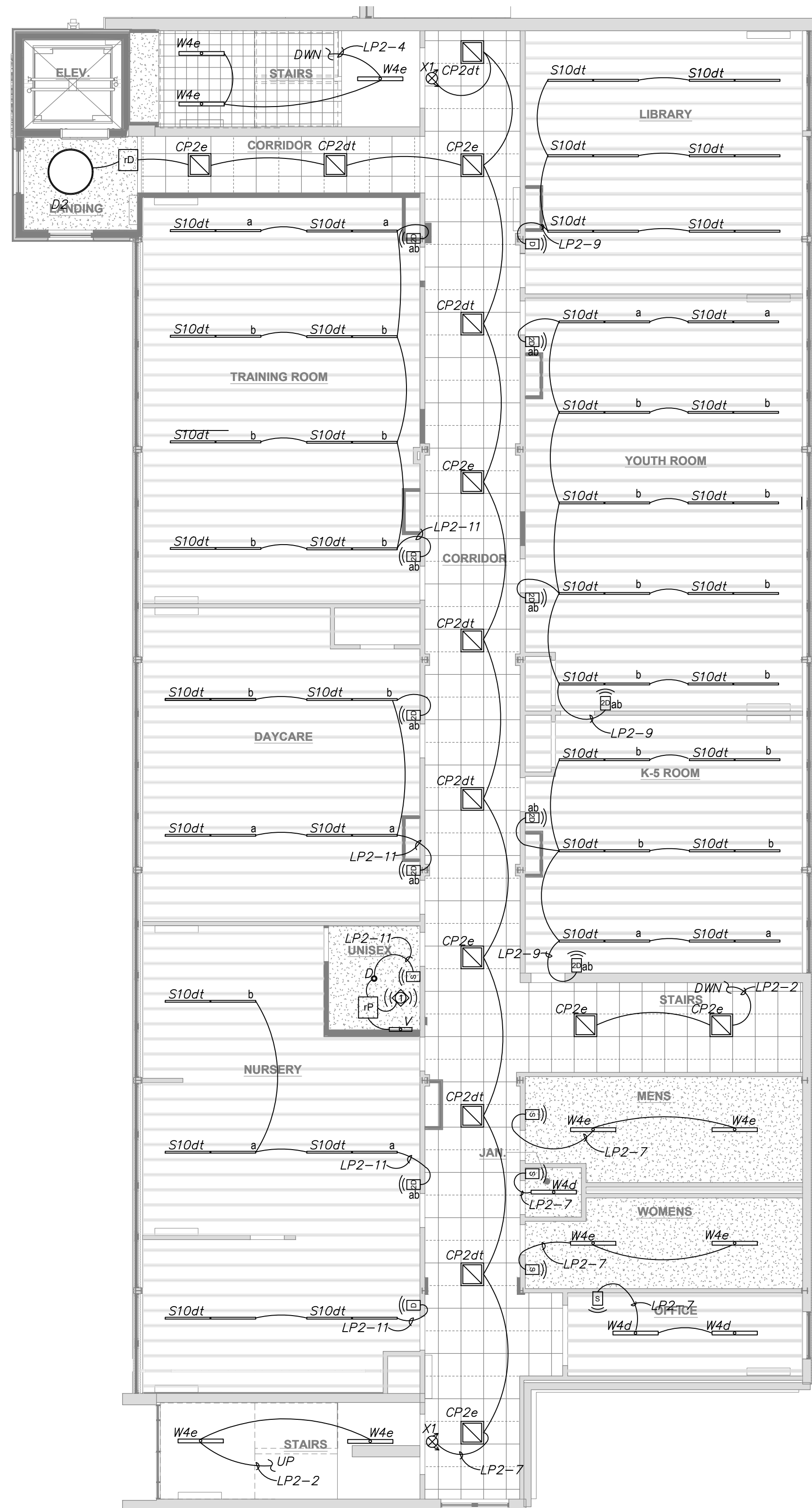
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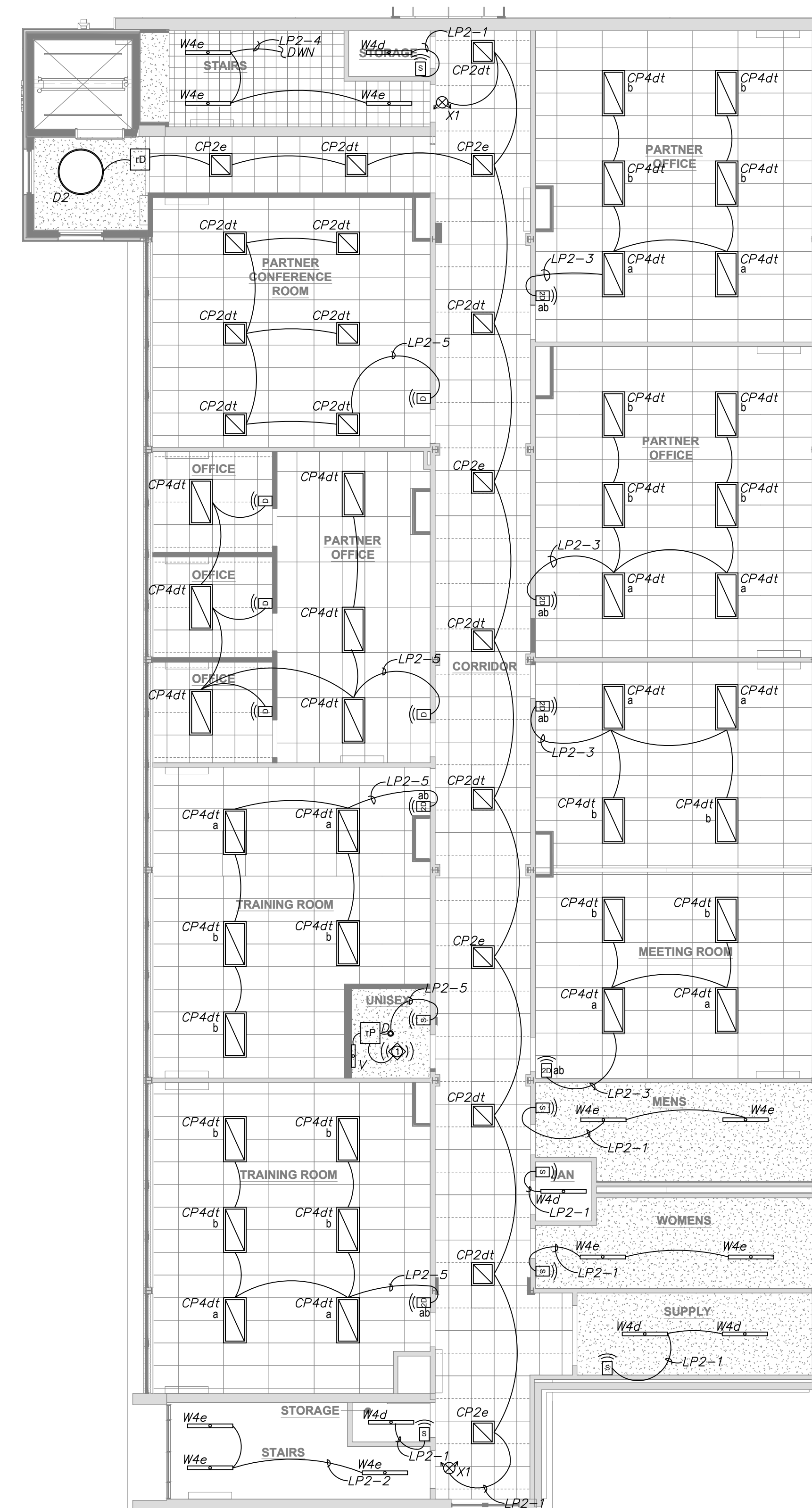
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E3.1



1 EDUCATION WING FIRST FLOOR NEW ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"



2 EDUCATION WING SECOND FLOOR NEW ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

1 TYPES AAe & BBc
SCALE: N.T.S.

2 TYPE CP4dt
SCALE: N.T.S.

3 TYPE D2
SCALE: N.T.S.

4 TYPES S10dT, W4d, & W4e
SCALE: N.T.S.

5 TYPE X1
SCALE: N.T.S.

LIGHTING CONTROL SCHEDULE												
NIGHT AIR (WL=WIRELESS)												
QTY	SYM	DESCRIPTION	DIM	PC	OCC	OPERATION	MOUNTING	COVERAGE	CONTROL	DIMMING	MFR	MODEL NUMBER
2		NIGHT AIR CEILING PIR OCCUPANCY / PHOTOCELL SENSOR	N	Y	Y	AUTO OFF	CEILING	12' RADIUS	24V DC	NA	LITHONIA	rCMS-9-G2
#		NIGHT AIR CEILING DUAL TECH OCCUPANCY / PHOTOCELL SENSOR	N	Y	Y	AUTO OFF	CEILING	12' RADIUS	24V DC	NA	LITHONIA	rCMS-PDT-9-G2
#		NIGHT AIR CEILING EXTENDED RANGE OCCUPANCY / PHOTOCELL SENSOR	N	Y	Y	AUTO OFF	CEILING	28' RADIUS	24V DC	NA	LITHONIA	rCMS-PDT-10-G2
22		LINE POWERED NIGHT AIR ENABLED WALL SWITCH	N	N	N	MANUAL ON/OFF	WALL	NA	WL	NA	LITHONIA	rPODL-MV-WH-G2
12		LINE POWERED NIGHT AIR ENABLED WALL DIMMER	Y	N	N	MANUAL ON/OFF DIMMER	WALL	NA	WL	NA	LITHONIA	rPODL-DX-MV- WH-G2
22		LINE POWERED NIGHT AIR WALL 2-ZONE WALL DIMMER	Y	N	N	MANUAL ON/OFF DIMMER	WALL	NA	WL	NA	LITHONIA	rPODL-2P-DX-MV- WH-G2
#		LINE POWERED NIGHT AIR WALL 4-SCENE WITH DIMMER	Y	N	N	MANUAL ON/OFF DIMMER	WALL	NA	WL	NA	LITHONIA	rPODLA-4S-DX-MV- WH-G2
2		NIGHT AIR POWER PACK (power up to 4 Air Occ sensors)	-	-	-	24V POWER SUPPLY	-	NA	-	NA	LITHONIA	rPP20-24V-G2
3		NIGHT AIR DIMMING POWER/ RELAY PACK	-	-	-	POWER	-	NA	WL	0-10V	LITHONIA	rPP20-D-G2

[illegible]



1 EXISTING CLASSROOM LIGHTING

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

EACH LIGHT FIXTURE IS PROVIDED WITH AN INTEGRAL DUAL TECHNOLOGY (INFRARED & MICROPHONICS) OCCUPANCY SENSOR, PHOTOCELL, AND RIO ANTENNA CONTROL IS WIRELESS MAKE A LINE VOLT CONNECTION TO EACH FIXTURE

BASE BID:
S10dt(BLWP8 80L ADSM GZ10 LP835 NLTAIR2 RES7PDT)

CONTROL SEQUENCE OF OPERATON

MODE: (VACANCY)

- REQUIRES MANUAL ACTIVATION TO TURN LIGHTS ON
- OCCUPANCY SENSOR AUTOMATICALLY TURNS LIGHTS WHEN NO MOTION OR SOUND IS DETECTED FOR 20-MIN

ZONE(s):

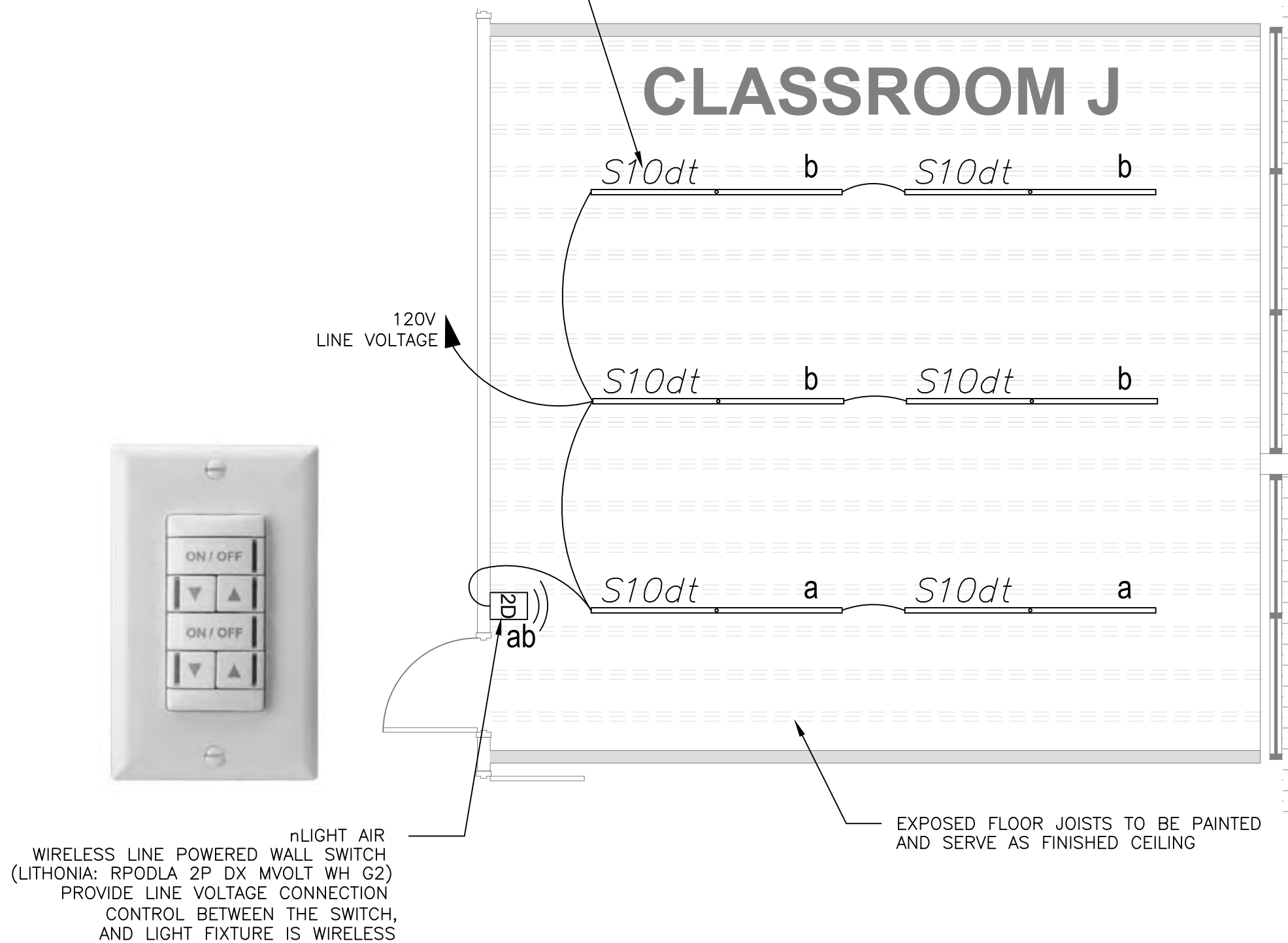
- (ZONE a)TEACHING WALL
- (ZONE b)STUDENT SEATING

ENTRY SWITCH:

- MANUAL ON
- MANUAL RAISE/LOWER
- MANUAL OFF

DAYLIGHT-RESPONSIVE CONTROL FUNCTION

- AUTOMATICALLY ADJUST THE GENERAL LIGHTING OUT PUT TO MAINTAIN IES RECOMMENDED LIGHTING LEVELS FOR CLASSROOMS ACCOMMODATING THE ELDERLY.



2 NEW CLASSROOM LIGHTING NEW LIGHT FIXTURES

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

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524



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970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

ELECTRICAL ENGINEER:
APS, INC.

PERMIT

SHEET ISSUANCES	DATE
DESCRIPTION	
PERMIT	06-11-2025

SEAL:

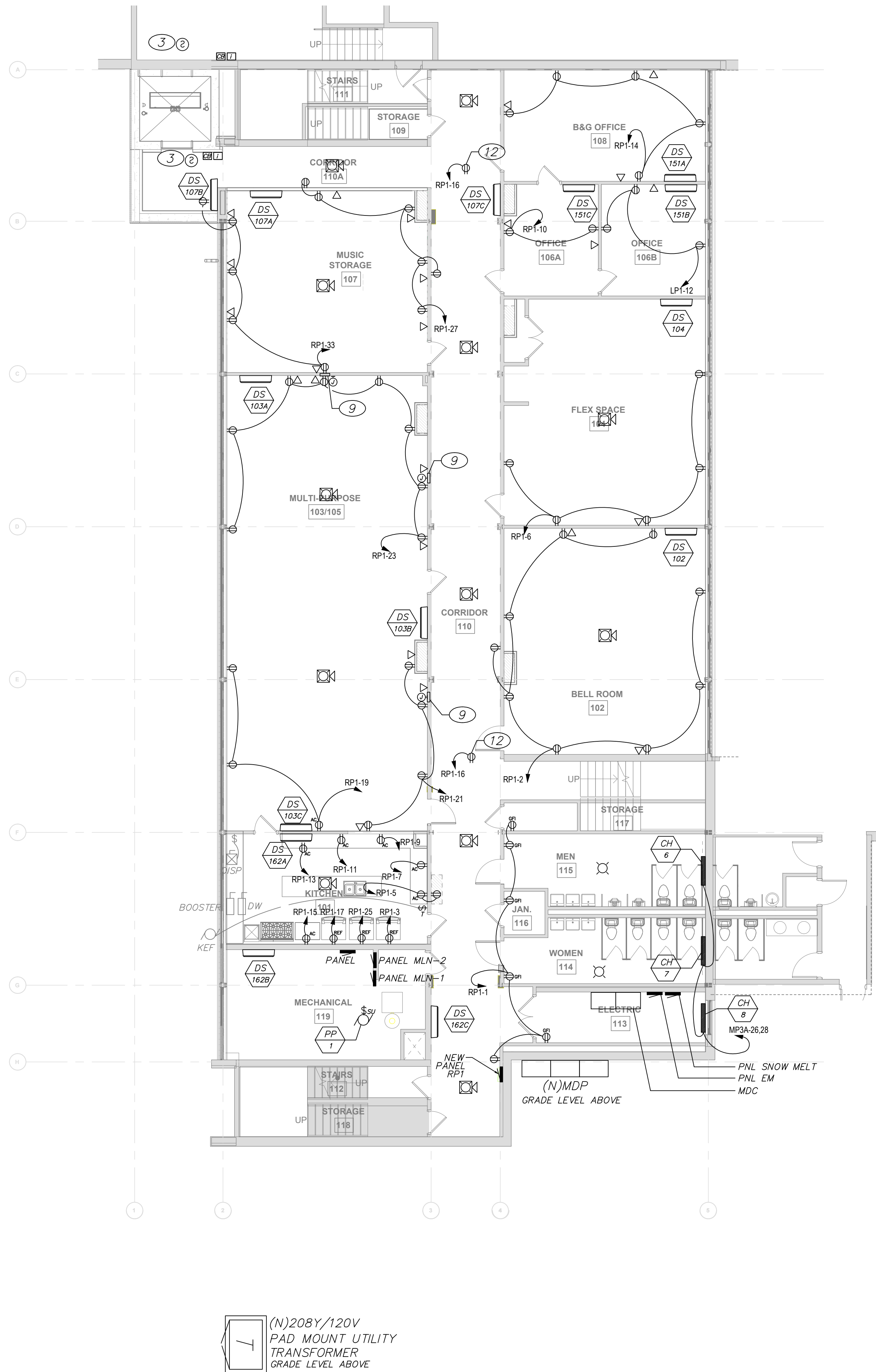


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ELECTRICAL LIGHTING CONCEPT

DRAWING NUMBER:

E3.3



1 EDUCATION WING BASEMENT NEW ELECTRICAL POWER
SCALE: 1/8" = 1'-0"

2 BASEMENT LEVEL NEW ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"

REFERENCE NOTES (THIS SHEET ONLY)

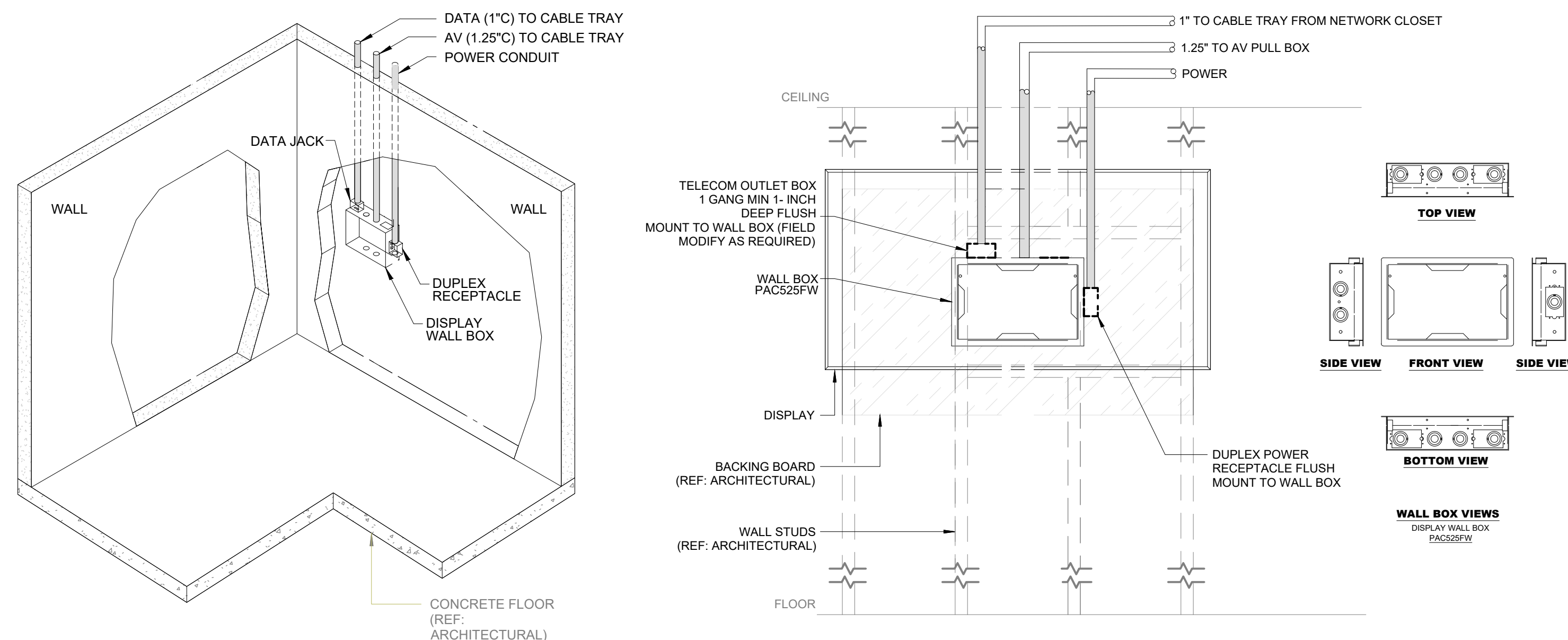
-
- ELEVATOR PIT MAINTENANCE RECEPTACLE AND LIGHTING. RECEPTACLE SHALL BE GFCI PROTECTED AND FED FROM LINE SIDE OF, NON-GFCI, DEDICATED ELEVATOR PIT LIGHTING CIRCUIT (RP1-35). LIGHTING SWITCH SHALL BE LOCATED AS TO BE READILY ACCESSIBLE FROM THE PIT ACCESS DOOR. LUMINARIES SHALL BE EXTERNALLY GUARDED (LITHONIA WL4 40L EZ1 LP840). ALL DEVICES SHALL BE LOCATED AT LEAST 1'-0" BELOW CAR TRAVEL.

PROVIDE A 2ND LIGHT, SWITCH, AND RECEPTACLE ON THE SAME CIRCUIT AT THE ELEVATOR MACHINE LANDING NEAR THE TOP OF THE SHAFT.

PROVIDE A SEPARATE GFCI RECEPTACLE AND CIRCUIT FOR A SUMP-PUMP AT THE BOTTOM OF THE SHAFT. (RP1-42)

ANY ELECTRICAL EQUIPMENT INSTALLED BELOW BASE FLOOD ELEVATION(BFE) SHOULD BE INSIDE A NEMA 4 RATED ENCLOSURE FOR WATER RESISTANCE.
- MEANS MUST BE PROVIDED TO AUTOMATICALLY DISCONNECT THE MAIN LINE POWER SUPPLY TO THE ELEVATOR UPON OR PRIOR TO THE APPLICATION OF WATER. LOCATE HEAT DETECTORS NEAR SPRINKLER HEADS IN THE ELEVATOR SHAFT, PIT AND MACHINE ROOM TO ACTIVATE AN ALARM SIGNAL PRIOR TO WATER DISCHARGE FROM THE SPRINKLER HEAD. AN OUTPUT CONTROL RELAY POWERED BY THE FIRE ALARM SYSTEM THEN SHALL PROVIDE A MONITORED OUTPUT TO THE MAIN DISCONNECTING MEANS CONTROL CIRCUIT, WHICH WILL ACTIVATE THE SHUNT TRIP. PROVIDE SMOKE DETECTORS IN THE ELEVATOR SHAFT, PIT, MACHINE ROOM, AND ELEVATOR LOBBIES TO ACTIVATE AN ALARM SIGNAL. AN OUTPUT CONTROL RELAY POWERED BY THE FIRE ALARM SYSTEM THEN SHALL PROVIDE A MONITORED OUTPUT TO THE ELEVATOR CONTROLLER RECALL CONTROL CIRCUIT, WHICH WILL ACTIVATE THE RECALL PROGRAMMING.
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- CLASSROOM TEACHING DISPLAY MONITOR. PROVIDE:
 - PAC525FW DISPLAY WALL BOX
 - POWER (DUPLEX RECEPTACLE, 120V 20A)
 - DATA (1" TO DATA CABLE TRAY)
 - AV INTERCONNECTION (1.25" TO ACCESSIBLE CEILING SPACE)FIELD COORDINATE REQUIREMENTS WITH AV VENDOR PRIOR TO ROUGH-IN
- PROVIDE RECEPTACLE TO ACCOMMODATE FAN-COIL CONDENSATE PUMP. FILED COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.

MECHANICAL EQUIPMENT SCHEDULE(NORTH)									
KEY	DESCRIPTION	HP	VOLT	PHASE	AMPS	KVA	WIRE AND CONDUIT	REMARKS	EM PWR
CH X	CABINET HEATER	-	208	1	2.2	-	(2#12THWN CU AND 1#12CU GRD) 1/2"C	PROVIDED WITH INTEGRAL DISCONNECT	NO
PP 1	POTABLE PUMP	1/8	120	1	-	-	(2#12THWN CU AND 1#12CU GRD) 1/2"C	PROVIDE Sbu DISCONNECT	NO
SP 2	SUMP PUMP	1/2	120	1	-	-	(2#12THWN CU AND 1#12CU GRD) 1/2"C	PROVIDE Sbu DISCONNECT	NO

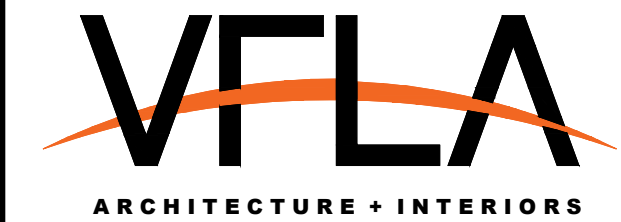


3 DISPLAY BOX DETAIL(SLAB ON GRADE)
SCALE: N.T.S.

PROJECT NUMBER: 2022-104

FIRST
PRESBYTERIAN
CHURCH -
EDUCATION WING
RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524



419 CANYON AVE STE 200, FORT COLLINS, CO 80521
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

ELECTRICAL ENGINEER:
APS, INC.

PERMIT

SHEET ISSUANCES	DATE
DESCRIPTION	PERMIT
PERMIT	06-11-2025

SEAL:



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ELECTRICAL
POWER
PLANS

DRAWING NUMBER:

E4.0

REFERENCE NOTES (THIS SHEET ONLY)

- 1

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- 2

ELEVATOR PIT MAINTENANCE RECEPTACLE AND LIGHTING. RECEPTACLE SHALL BE GFCI PROTECTED AND FED FROM LINE SIDE OF, NON-GFCI, DEDICATED ELEVATOR PIT LIGHTING CIRCUIT (RP1-35). LIGHTING SWITCH SHALL BE LOCATED AS TO BE READILY ACCESSIBLE FROM THE PIT ACCESS DOOR. LUMINARIES SHALL BE EXTERNALLY GUARDED (LITHONIA WL4 40L E21 LP840). ALL DEVICES SHALL BE LOCATED AT LEAST 1'-0" BELOW CAR TRAVEL.
PROVIDE A 2ND LIGHT, SWITCH, AND RECEPTACLE ON THE SAME CIRCUIT AT THE ELEVATOR MACHINE LANDING NEAR THE TOP OF THE SHAFT.
PROVIDE A SEPARATE GFCI RECEPTACLE AND CIRCUIT FOR A SUMP-PUMP AT THE BOTTOM OF THE SHAFT. (RP1-42)
ANY ELECTRICAL EQUIPMENT INSTALLED BELOW BASE FLOOD ELEVATION(BFE) SHOULD BE INSIDE A NEMA 4 RATED ENCLOSURE FOR WATER RESISTANCE.
- 3

MEANS MUST BE PROVIDED TO AUTOMATICALLY DISCONNECT THE MAIN LINE POWER SUPPLY TO THE ELEVATOR UPON OR PRIOR TO THE APPLICATION OF WATER. LOCATE HEAT DETECTORS NEAR SPRINKLER HEADS IN THE ELEVATOR SHAFT, PIT AND MACHINE ROOM TO ACTIVATE AN ALARM SIGNAL PRIOR TO WATER DISCHARGE FROM THE SPRINKLER HEAD. AN OUTPUT CONTROL RELAY POWERED BY THE FIRE ALARM SYSTEM THEN SHALL PROVIDE A MONITORED OUTPUT TO THE MAIN DISCONNECTING MEANS CONTROL CIRCUIT, WHICH WILL ACTIVATE THE SHUNT TRIP. PROVIDE SMOKE DETECTORS IN THE ELEVATOR SHAFT, PIT, MACHINE ROOM, AND ELEVATOR LOBBIES TO ACTIVATE AN ALARM SIGNAL. AN OUTPUT CONTROL RELAY POWERED BY THE FIRE ALARM SYSTEM THEN SHALL PROVIDE A MONITORED OUTPUT TO THE ELEVATOR CONTROLLER RECALL CONTROL CIRCUIT, WHICH WILL ACTIVATE THE RECALL PROGRAMMING.

MECHANICAL EQUIPMENT SCHEDULE(NORTH)

KEY	DESCRIPTION	HP	VOLT	PHASE	AMPS	KVA	WIRE AND CONDUIT	REMARKS	EM PWR	CIRCUIT
CH X	CABINET HEATER 1,2,3,4,5	-	208	1	2.2	-	(2#12THWN CU AND 1#12CU GRD) 1/2" C	PROVIDED WITH INTEGRAL DISCONNECT	NO	SEE DWGS

- 4

DEDICATED BRANCH CIRCUIT FOR ELEVATOR CAR LIGHTS. OVER CURRENT DEVICE PROTECTING CIRCUIT SHALL BE LOCATED IN THE ELEVATOR MACHINE ROOM. DISCONNECTING MEANS SHALL BE AN ENCLOSED EXTERNALLY OPERABLE FUSED MOTOR CIRCUIT SWITCH OR CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION. (RP1-37)
- 5

ELEVATOR DISCONNECT SWITCH BUSMAN POWER MODULE WITH 60AMP LPJ FOR 15HP ACROSS THE LINE STARTING TRACTION ELEVATOR. (PS1-T20-R1-K-G-B-F3-Y). 100 AMP SINGLE THROW SWITCH 208-3PH, 208-120V CONTROL POWER TRANSFORMER, 120V AC COIL. FIRE SAFETY INTERFACE RELAY, KEY TO TEST SWITCH, PILOT LIGHT" (GREEN), MECHANICALLY INTERLOCKED AUXILIARY CONTACT FOR ELEVATOR WITH AUTOMATIC RECALL. FEED WITH (3#3 THWN CU & 1 #3 CU GRD)1.25"C (MDP SEE ONE-LINE)
- 6

DISCONNECT SWITCH FOR ELEVATOR POWER FAILURE RECALL BATTERY CHARGING (30 AMP/1 POLE/20 AMP FUSED NEMA 1). (RP1-39)
- 7

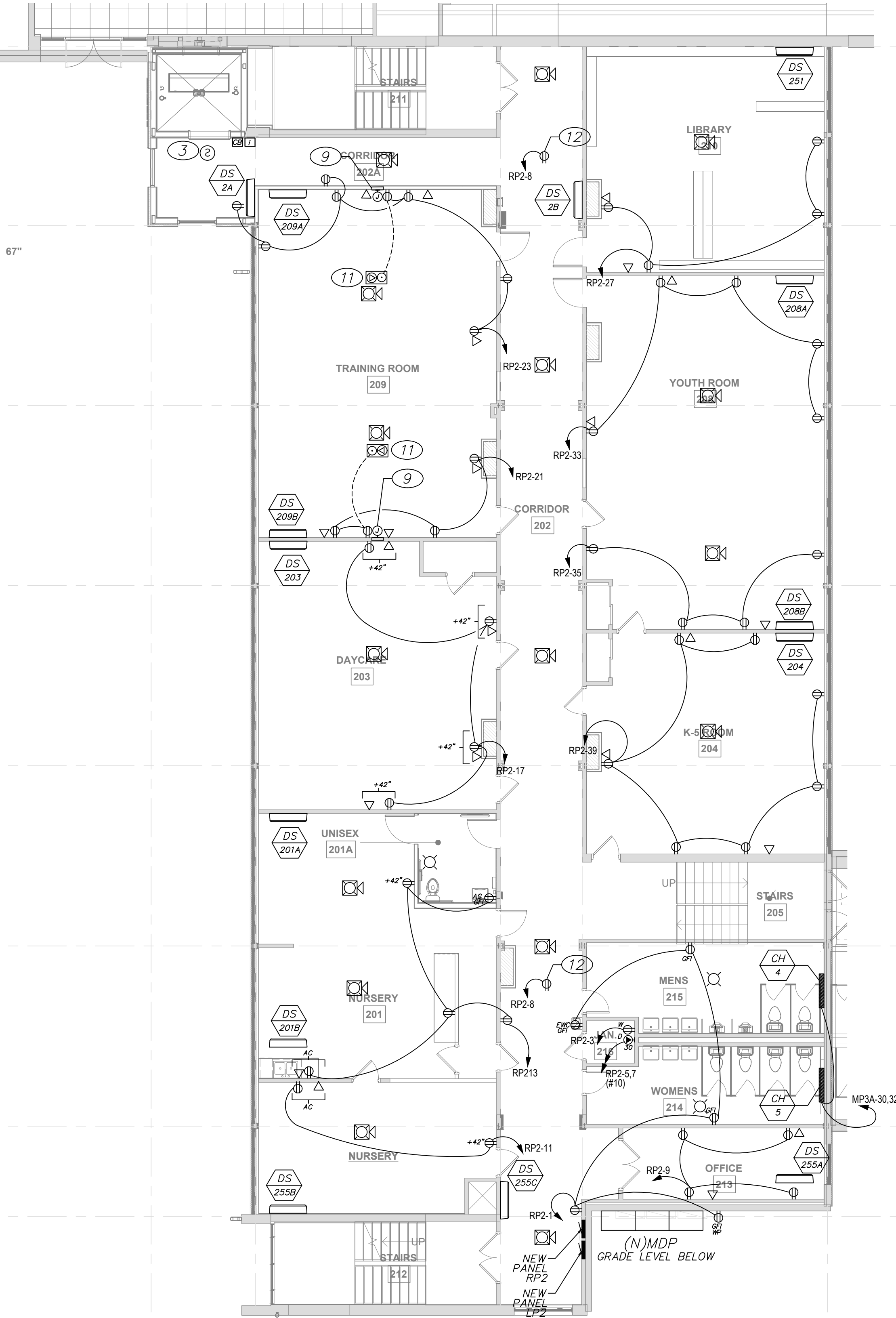
ELEVATOR MACHINE ROOM MAINTENANCE RECEPTACLE. GFCI PROTECTED, FED FROM LINE SIDE OF, NON-GFCI, DEDICATED MACHINE ROOM LIGHTING CIRCUIT (RP1-41). IN ADDITION, CONNECT THE CLOSET EXHAUST FAN INTO THIS SAME CIRCUIT.
- 8

PROVIDE (1) 3/4" EMPTY CONDUIT TO MAIN TELEPHONE TERMINAL CABINET.
- 9

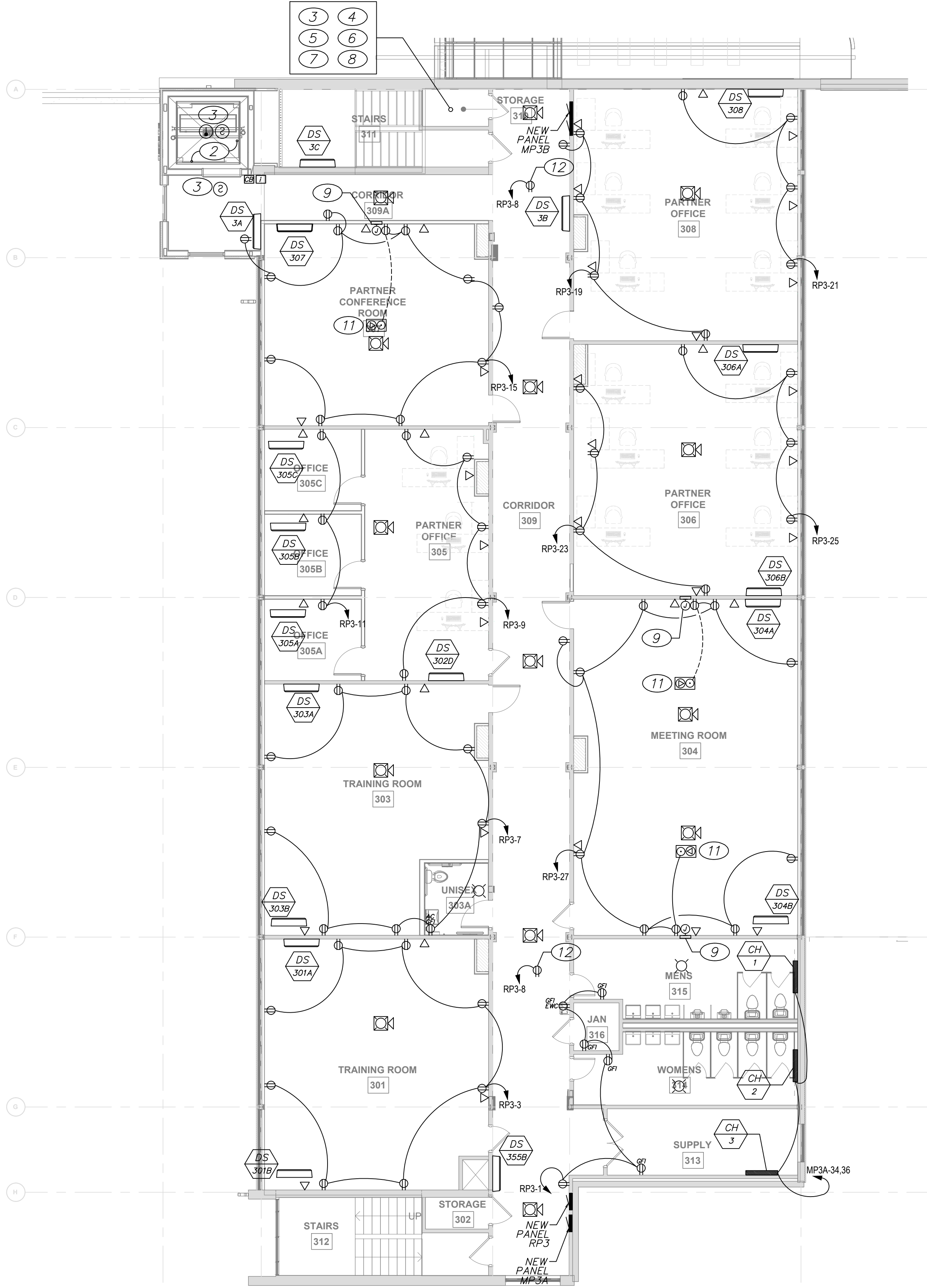
CLASSROOM TEACHING DISPLAY MONITOR. PROVIDE:
- PAC525FW DISPLAY WALL BOX
- POWER (DUPLEX RECEPTACLE, 120V 20A)
- DATA (1"C TO DATA CABLE TRAY)
- AV INTERCONNECTION (1.25"C TO ACCESSIBLE CEILING SAPCE)
FIELD COORDINATE REQUIREMENTS WITH AV VENDOR PRIOR TO ROUGH-IN
- 11

CLASSROOM FLOOR BOX PROVIDE:
- WIREMOLD 6ATC2PAWBK + 1125CHA + 575CHA
- POWER (DUPLEX RECEPTACLE, 120V 20A)
- DATA (3/4"C TO DATA CABLE TRAY)
- AV INTERCONNECTION (1.25"C TO DISPLAY WALL BOX)
FIELD COORDINATE REQUIREMENTS WITH AV VENDOR PRIOR TO ROUGH-IN
- 12

PROVIDE RECEPTACLE TO ACCOMMODATE FAN-COIL CONDENSATE PUMP. FILED COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.



1 EDUCATION WING FIRST FLOOR NEW ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"

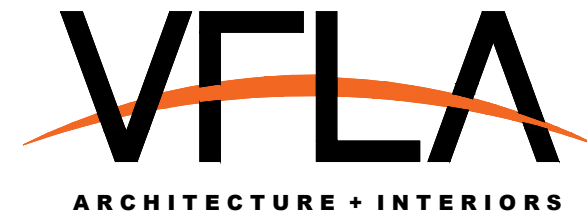


2 EDUCATION WING SECOND FLOOR NEW ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"

PROJECT NUMBER: 2022-104

FIRST
PRESBYTERIAN
CHURCH -
EDUCATION WING
RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524



419 CANYON AVE STE 200, FORT COLLINS, CO 80521
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WILSON & COMPANY, INC.

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RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

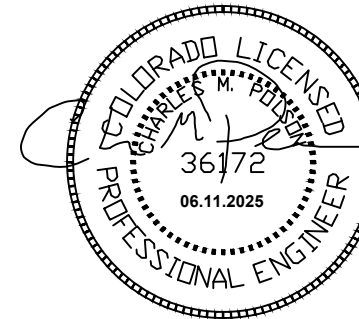
MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

ELECTRICAL ENGINEER:
APS, INC.

PERMIT

SHEET ISSUANCES	DATE
DESCRIPTION	
PERMIT	06-11-2025

SEAL:

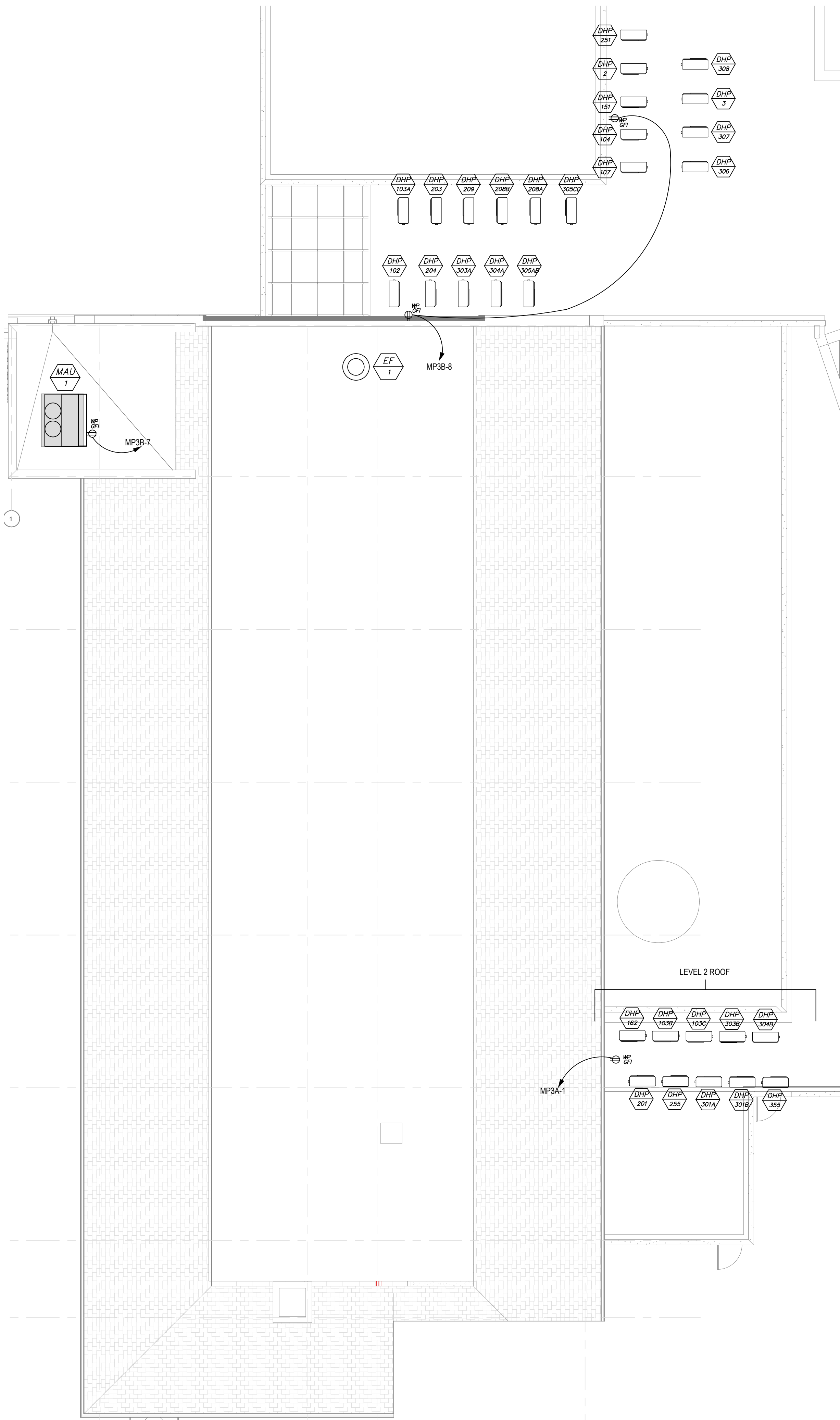


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ELECTRICAL
POWER
PLANS

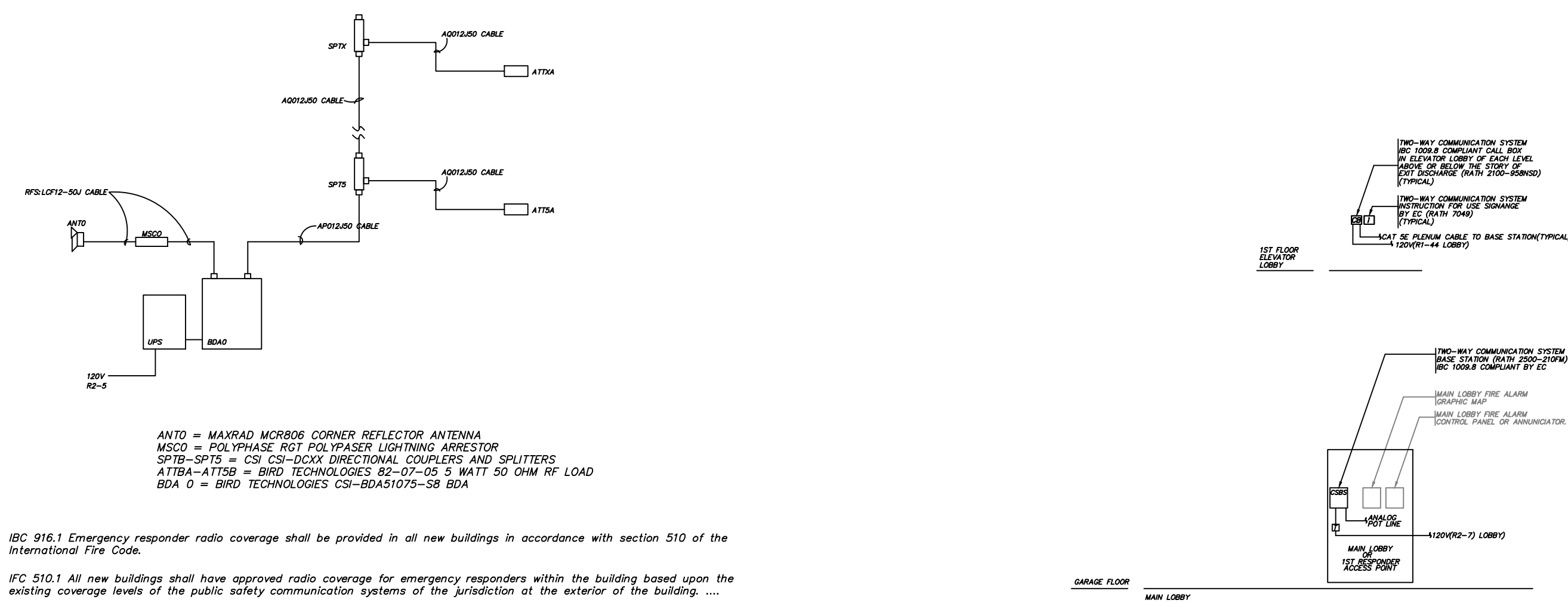
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E4.1



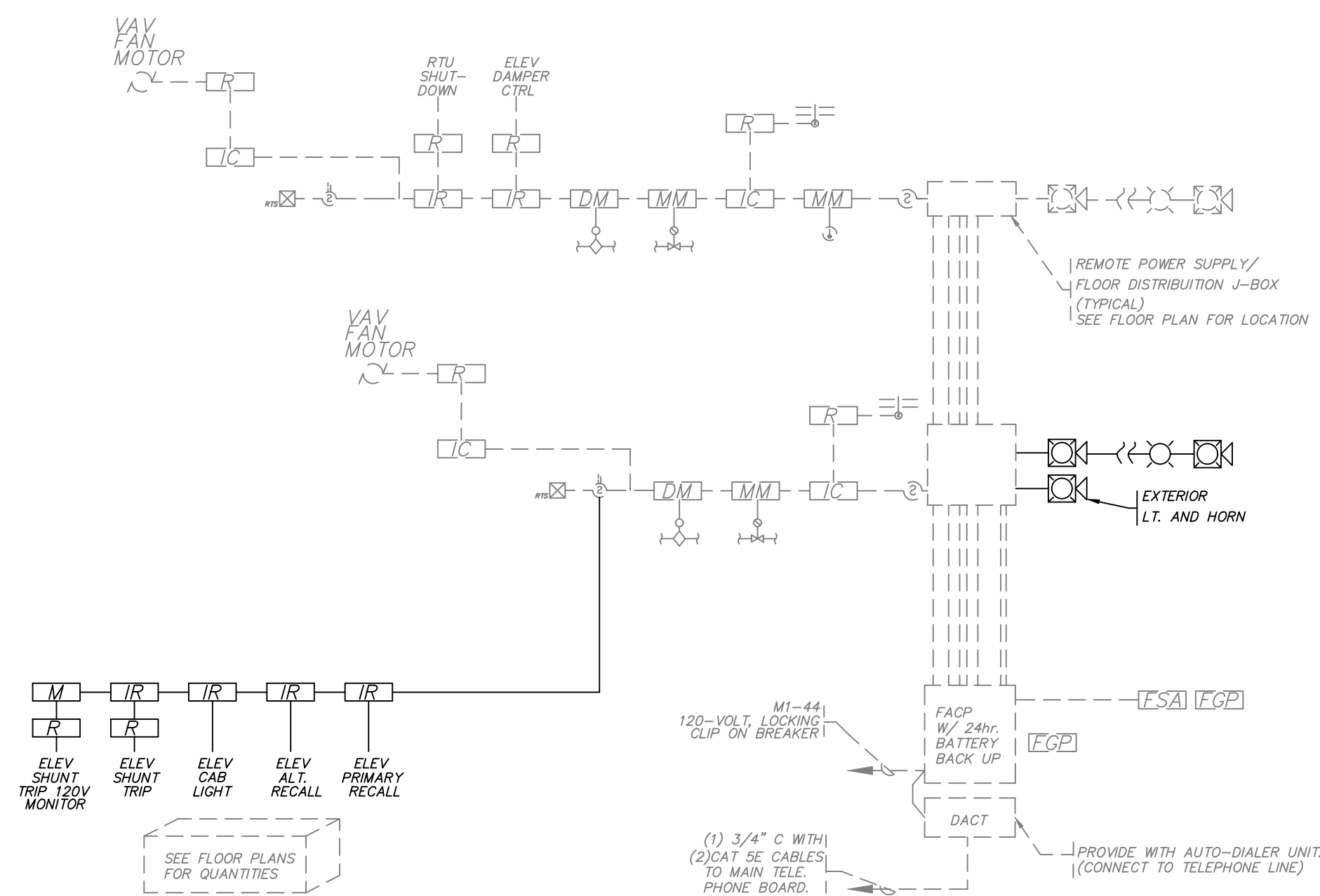
MECHANICAL EQUIPMENT SCHEDULE(NORTH)									
KEY	DESCRIPTION	HP	VOLT	PHASE	AMPS	KVA	WIRE AND CONDUIT	REMARKS	EM PWR
DHP 2	DUCTLESS HEAT PUMP	-	208	1	17.5 MCA	20 MOCP	(2#12THHN CU AND 1#12CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 2	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	DS-2A FED FROM ASSOCIATED DHP DS-2B FED FROM ASSOCIATED DHP	MP3B-9,11
DHP 3	DUCTLESS HEAT PUMP	-	208	1	17.5 MCA	20 MOCP	(2#12THHN CU AND 1#12CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 3	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	DS-3A FED FROM ASSOCIATED DHP DS-3B FED FROM ASSOCIATED DHP	MP3B-13,15
DHP 102	DUCTLESS HEAT PUMP	-	208	1	34 MCA	35 MOCP	(2#12THHN CU AND 1#10 CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 102	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	FED FROM ASSOCIATED DHP	MP3B-17,19
DHP 103A	DUCTLESS HEAT PUMP	-	208	1	34 MCA	35 MOCP	(2#12THHN CU AND 1#10 CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 103A	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	FED FROM ASSOCIATED DHP	MP3B-21,23
DHP 104	DUCTLESS HEAT PUMP	-	208	1	34 MCA	35 MOCP	(2#12THHN CU AND 1#10 CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 104	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	FED FROM ASSOCIATED DHP	MP3B-25,27
DHP 107	DUCTLESS HEAT PUMP	-	208	1	37 MCA	40 MOCP	(2#12THHN CU AND 1#10CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 107A	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	DS-107A FED FROM ASSOCIATED DHP DS-107B FED FROM ASSOCIATED DHP DS-107C FED FROM ASSOCIATED DHP	MP3B-29,31
DHP 107B	DUCTLESS HEAT PUMP	-	208	1	37 MCA	40 MOCP	(2#12THHN CU AND 1#10CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 107B	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	DS-107B FED FROM ASSOCIATED DHP DS-107C FED FROM ASSOCIATED DHP	MP3B-33,35
DHP 207	DUCTLESS HEAT PUMP	-	208	1	34 MCA	35 MOCP	(2#12THHN CU AND 1#10 CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 207	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	FED FROM ASSOCIATED DHP	MP3B-37,39
DHP 204	DUCTLESS HEAT PUMP	-	208	1	34 MCA	35 MOCP	(2#12THHN CU AND 1#10 CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 204	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	FED FROM ASSOCIATED DHP	MP3B-10,12
DHP 208A	DUCTLESS HEAT PUMP	-	208	1	34 MCA	35 MOCP	(2#12THHN CU AND 1#10 CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 208A	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	FED FROM ASSOCIATED DHP	MP3B-14,16
DHP 208B	DUCTLESS HEAT PUMP	-	208	1	34 MCA	35 MOCP	(2#12THHN CU AND 1#10 CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 208B	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	FED FROM ASSOCIATED DHP	MP3B-18,20
DHP 209	DUCTLESS HEAT PUMP	-	208	1	37 MCA	40 MOCP	(2#12THHN CU AND 1#10CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 209A	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	DS-209A FED FROM ASSOCIATED DHP DS-209B FED FROM ASSOCIATED DHP	MP3B-22,24
DHP 201	DUCTLESS HEAT PUMP	-	208	1	34 MCA	35 MOCP	(2#12THHN CU AND 1#10 CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 201	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	FED FROM ASSOCIATED DHP	MP3B-26,28
DHP 303A	DUCTLESS HEAT PUMP	-	208	1	34 MCA	35 MOCP	(2#12THHN CU AND 1#10 CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 303A	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	FED FROM ASSOCIATED DHP	MP3B-30,32
DHP 304A	DUCTLESS HEAT PUMP	-	208	1	34 MCA	35 MOCP	(2#12THHN CU AND 1#10 CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 304A	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	FED FROM ASSOCIATED DHP	MP3B-34,36
DHP 305A	DUCTLESS HEAT PUMP	-	208	1	37 MCA	40 MOCP	(2#12THHN CU AND 1#10CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 305A	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	DS-305A FED FROM ASSOCIATED DHP DS-305B FED FROM ASSOCIATED DHP	MP3B-38,40
DHP 305C	DUCTLESS HEAT PUMP	-	208	1	17.5 MCA	20 MOCP	(2#12THHN CU AND 1#12CU GND) 3/4"	PROVIDE W.P. 30/2 N.F. DISCONNECT	NO
DS 305A	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	DS-305C FED FROM ASSOCIATED DHP DS-305D FED FROM ASSOCIATED DHP	MP3B-43,45
DHP 306	DUCTLESS HEAT PUMP	-	208	1	37 MCA	40 MOCP	(2#12THHN CU AND 1#10CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 306A	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	DS-306A FED FROM ASSOCIATED DHP DS-306B FED FROM ASSOCIATED DHP	MP3B-47,49
DHP 307	DUCTLESS HEAT PUMP	-	208	1	34 MCA	35 MOCP	(2#12THHN CU AND 1#10 CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 307	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	FED FROM ASSOCIATED DHP	MP3B-44,46
DHP 308	DUCTLESS HEAT PUMP	-	208	1	34 MCA	35 MOCP	(2#12THHN CU AND 1#10 CU GND) 3/4"	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 308	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA	-	(2#12THHN CU AND 1#12CU GND) 1/2"	FED FROM ASSOCIATED DHP	MP3B-48,50
EF 1	EXHAUST FAN	2	208	3	-	-	(3#12THHN CU AND 1#12CU GND) 1/2"	PROVIDE W.P. 30/3 DISCONNECT	NO
MAU 1	MAKE UP AIR UNIT	-	208	3	78 MCA	35 MOCP	(3#12THHN CU AND 1#10 CU GND) 1.5"	PROVIDE W.P. 100/3 DISCONNECT	NO
EVAP PUMP	EVAP PUMP	120	1	5.0	-	-	(2#12THHN CU AND 1#12CU GND) 1/2"	PROVIDE W.P. 50 DISCONNECT	NO

MECHANICAL EQUIPMENT SCHEDULE(SOUTH)									
KEY	DESCRIPTION	HP	VOLT	PHASE	AMPS	KVA	WIRE AND CONDUIT	REMARKS	EM PWR
DHP 103B	DUCTLESS HEAT PUMP	-	208	1	34 MCA 35 MOCP		(2#12 THHN CU AND 1#10 CU GND) 3/4" C	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 103B	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA		(2#12THHN CU AND 1#12CU GND) 1/2" C	FED FROM ASSOCIATED DHP	MP3A-3,5
DHP 103C	DUCTLESS HEAT PUMP	-	208	1	34 MCA 35 MOCP		(2#12 THHN CU AND 1#10 CU GND) 3/4" C	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 103C	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA		(2#12THHN CU AND 1#12CU GND) 1/2" C	FED FROM ASSOCIATED DHP	MP3A-7,9
DHP 162	DUCTLESS HEAT PUMP	-	208	1	37 MCA 40 MOCP		(2#12THHN CU AND 1#10CU GND) 3/4" C	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 162A	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA		(2#12THHN CU AND 1#12CU GND) 1/2" C	DS-162A FED FROM ASSOCIATED DHP DS-162B FED FROM ASSOCIATED DHP DS-162C FED FROM ASSOCIATED DHP	MP3A-11,13
DHP 201	DUCTLESS HEAT PUMP	-	208	1	37 MCA 40 MOCP		(2#12THHN CU AND 1#10CU GND) 3/4" C	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 201A	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA		(2#12THHN CU AND 1#12CU GND) 1/2" C	DS-201A FED FROM ASSOCIATED DHP DS-201B FED FROM ASSOCIATED DHP	MP3A-15,17
DHP 255	DUCTLESS HEAT PUMP	-	208	1	37 MCA 40 MOCP		(2#12THHN CU AND 1#10CU GND) 3/4" C	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 255A	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA		(2#12THHN CU AND 1#12CU GND) 1/2" C	DS-255A FED FROM ASSOCIATED DHP DS-255B FED FROM ASSOCIATED DHP DS-255C FED FROM ASSOCIATED DHP	MP3A-19,21
DHP 301A	DUCTLESS HEAT PUMP	-	208	1	34 MCA 35 MOCP		(2#12 THHN CU AND 1#10 CU GND) 3/4" C	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 301A	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA		(2#12THHN CU AND 1#12CU GND) 1/2" C	FED FROM ASSOCIATED DHP	MP3A-2,4
DHP 301B	DUCTLESS HEAT PUMP	-	208	1	34 MCA 35 MOCP		(2#12 THHN CU AND 1#10 CU GND) 3/4" C	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 301B	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA		(2#12THHN CU AND 1#12CU GND) 1/2" C	FED FROM ASSOCIATED DHP	MP3A-6,8
DHP 303B	DUCTLESS HEAT PUMP	-	208	1	34 MCA 35 MOCP		(2#12 THHN CU AND 1#10 CU GND) 3/4" C	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 303B	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA		(2#12THHN CU AND 1#12CU GND) 1/2" C	FED FROM ASSOCIATED DHP	MP3A-10,12
DHP 304B	DUCTLESS HEAT PUMP	-	208	1	34 MCA 35 MOCP		(2#12 THHN CU AND 1#10 CU GND) 3/4" C	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 304B	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA		(2#12THHN CU AND 1#12CU GND) 1/2" C	FED FROM ASSOCIATED DHP	MP3A-14,16
DHP 355	DUCTLESS HEAT PUMP	-	208	1	17.5 MCA 20 MOCP		(2#12THHN CU AND 1#12CU GND) 3/4" C	PROVIDE W.P. 60/2 N.F. DISCONNECT	NO
DS 355B	DUCTLESS SPLIT HP FAN COIL	-	208	1	3 MCA		(2#12THHN CU AND 1#12CU GND) 1/2" C	DS-3A FED FROM ASSOCIATED DHP DS-3B FED FROM ASSOCIATED DHP	MP3A-18,20
				</					

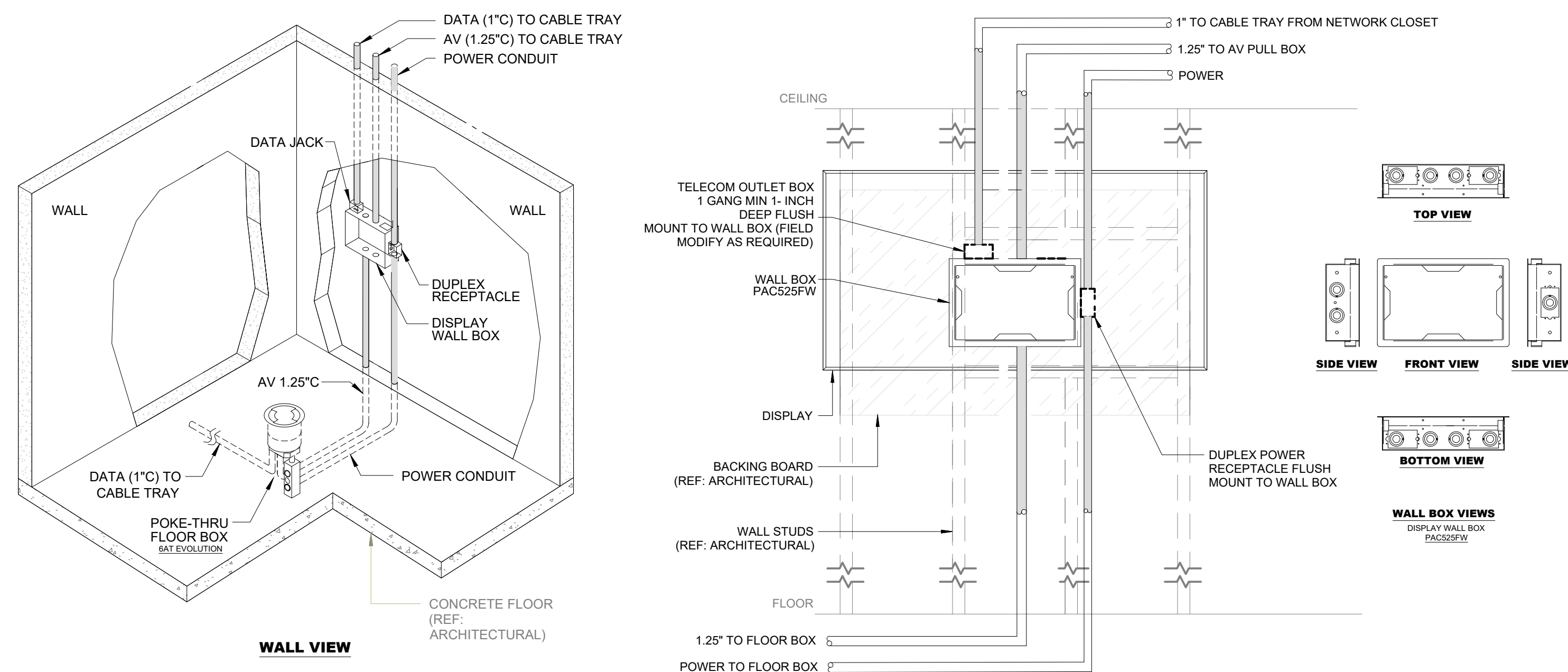
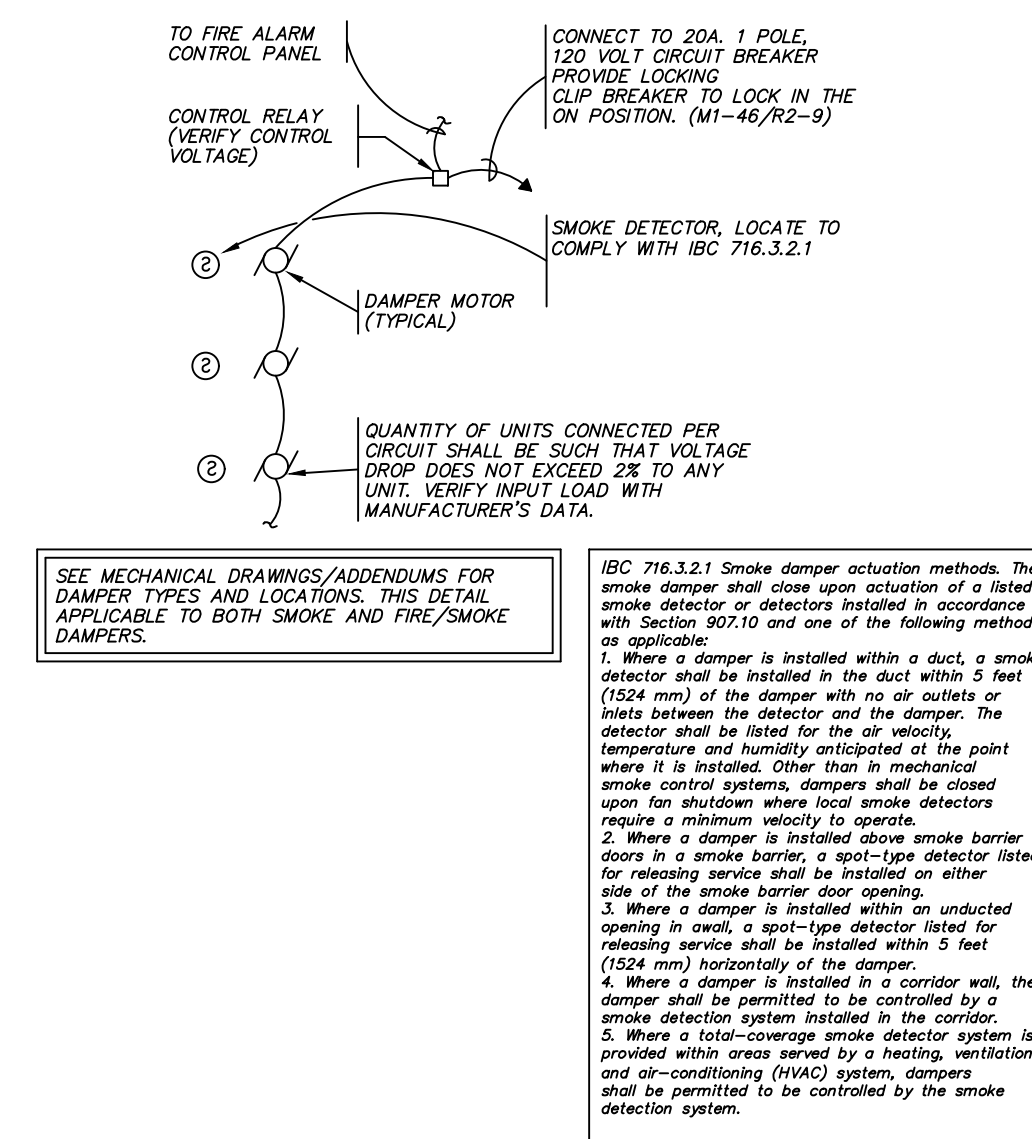
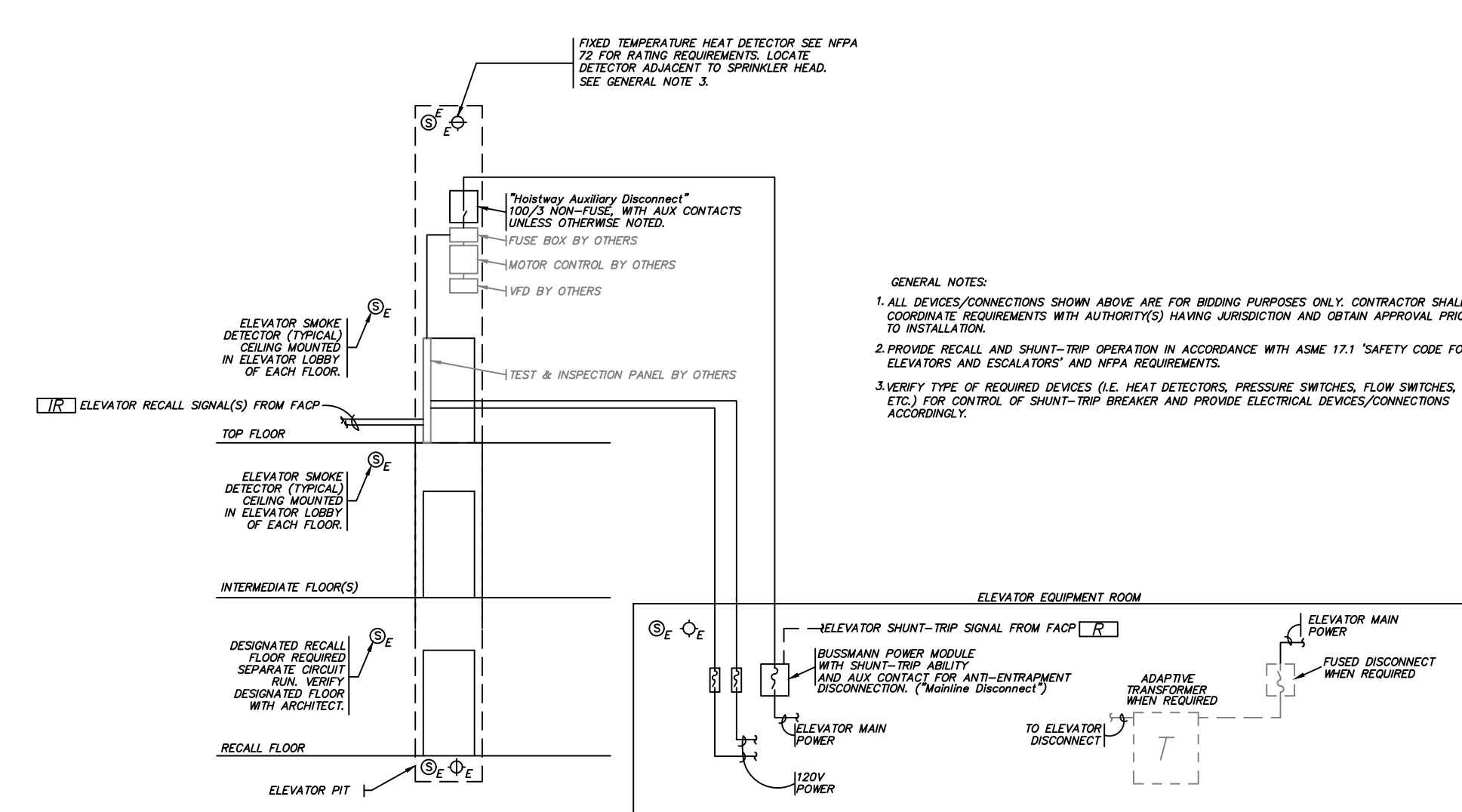


1 EMERGENCY RESPONDER RADIO COVERAGE (ERRC)
SCALE: N.T.S.

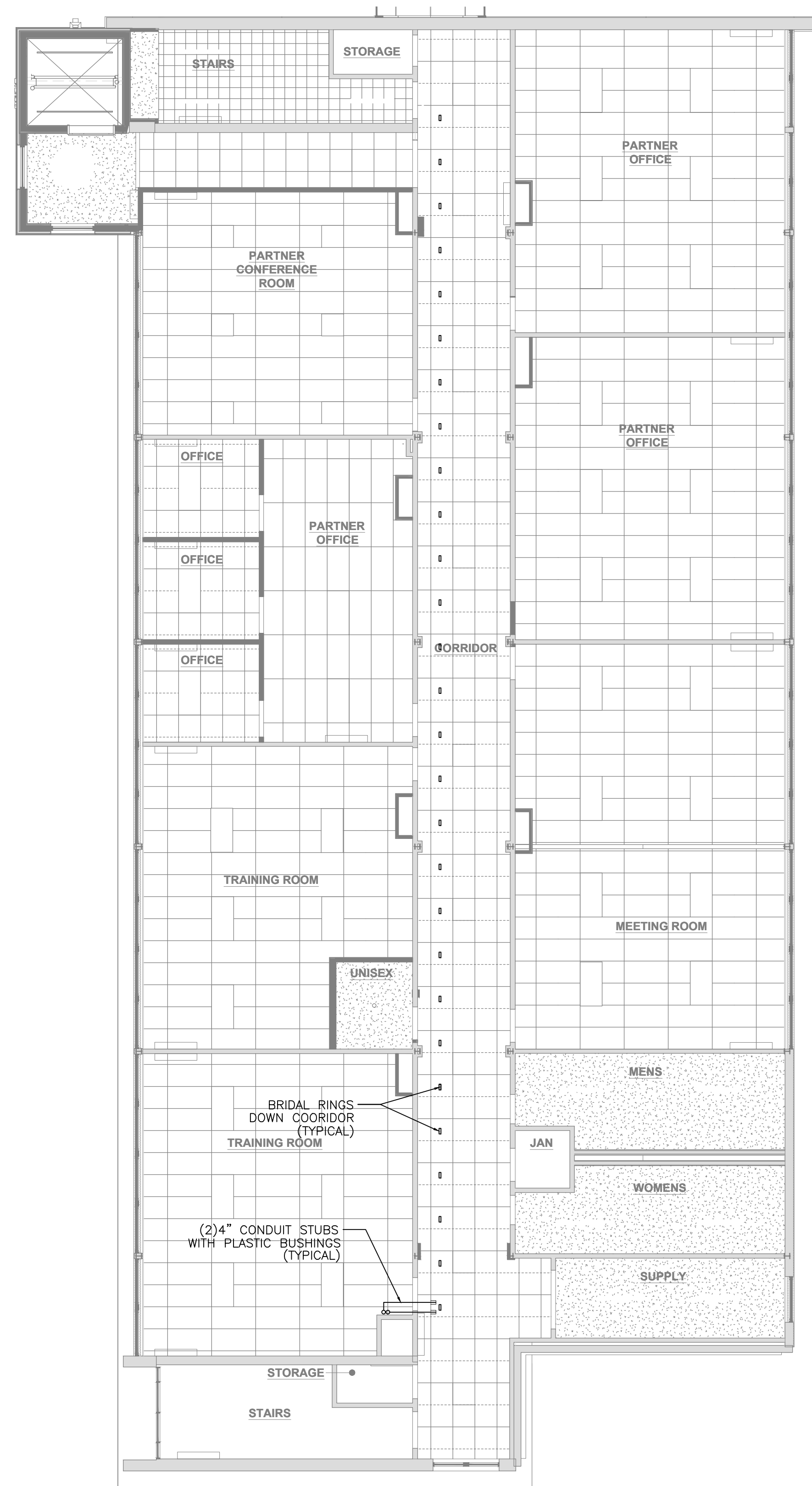
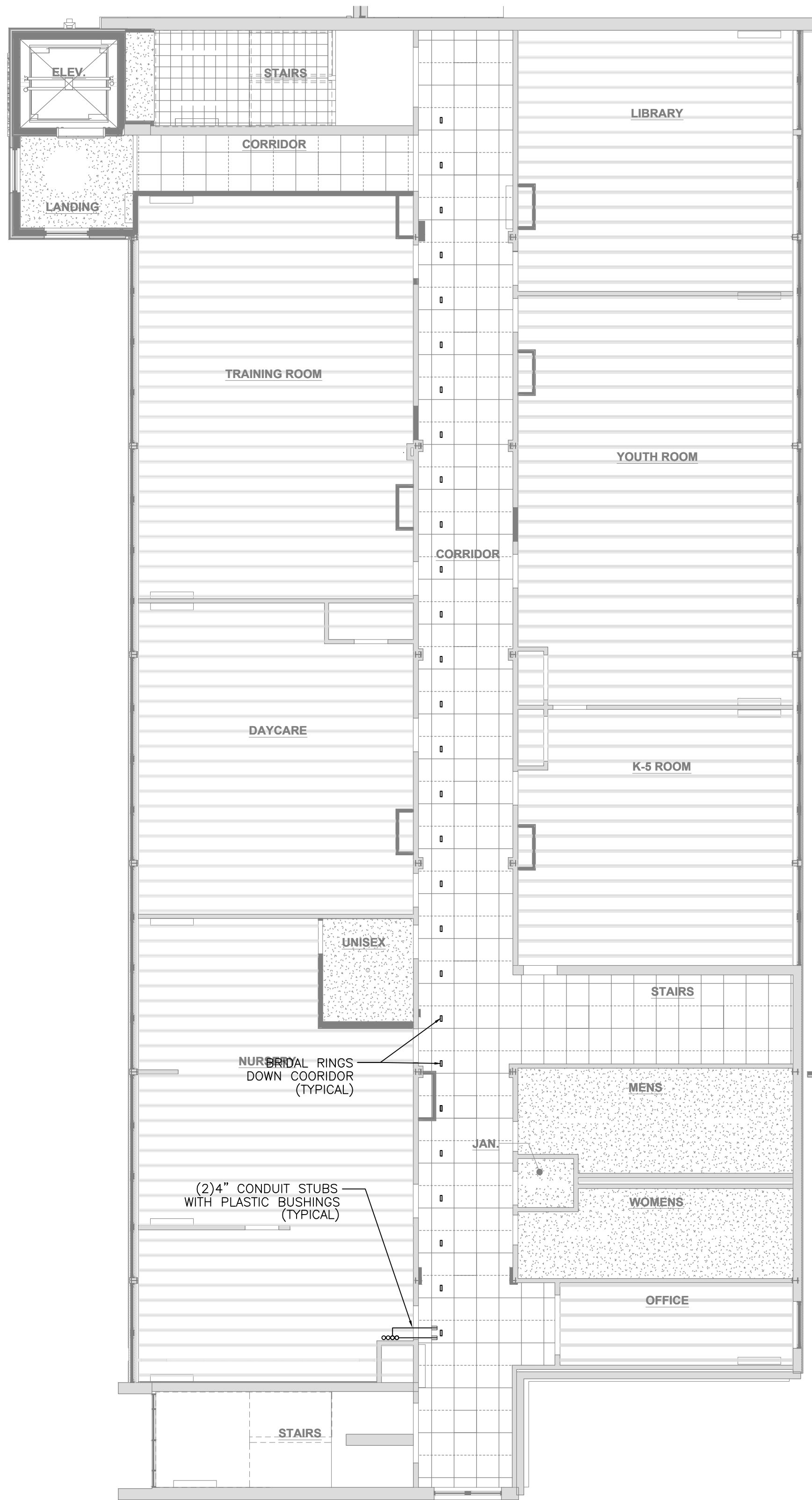
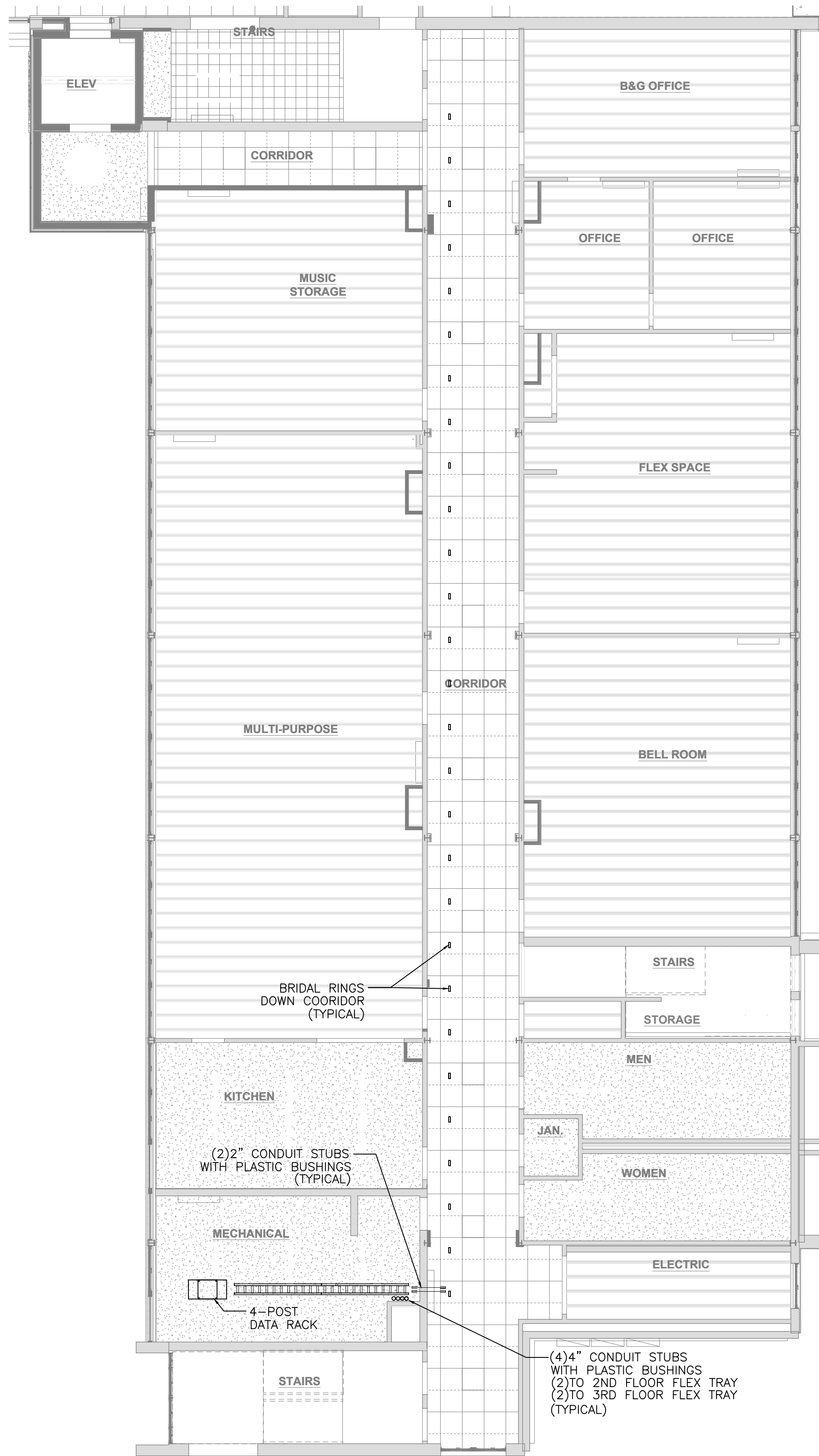
2 TWO-WAY COMMUNICATION SYSTEM
SCALE: N.T.S.



3 ELEVATOR RECALL CONNECTION DETAIL
SCALE: N.T.S.



6 FLOOR BOX & DISPLAY BOX DETAIL (ABOVE GRADE POKE THRU CONCRETE FIRE RATED) (9) (11)
SCALE: N.T.S.



1 EDUCATION WING BASEMENT NEW CABLE SUPPORT PLAN
SCALE: 1/8" = 1'-0"

2 EDUCATION WING FIRST FLOOR NEW CABLE SUPPORT PLAN
SCALE: 1/8" = 1'-0"

3 EDUCATION WING SECOND FLOOR CABLE SUPPORT PLAN
SCALE: 1/8" = 1'-0"

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

531 S COLLEGE AVE
FORT COLLINS, CO. 80524



419 CANYON AVE STE 200, FORT COLLINS, CO 80521
970.224.1191 | WWW.VFLA.COM

STRENGTH IN DESIGN
STRENGTH IN PARTNERSHIP
STRENGTH IN COMMUNITY

PROJECT TEAM

CIVIL ENGINEER:
WILSON & COMPANY, INC.

LANDSCAPE ARCHITECT:
RIPLEY DESIGN

STRUCTURAL ENGINEER:
RAKER RHODES ENGINEERING

MECHANICAL & PLUMBING ENGINEER:
INTEGRATED MEP

ELECTRICAL ENGINEER:
APS, INC.

PERMIT

SHEET ISSUANCES	DATE
DESCRIPTION	
PERMIT	06-11-2025

SEAL:

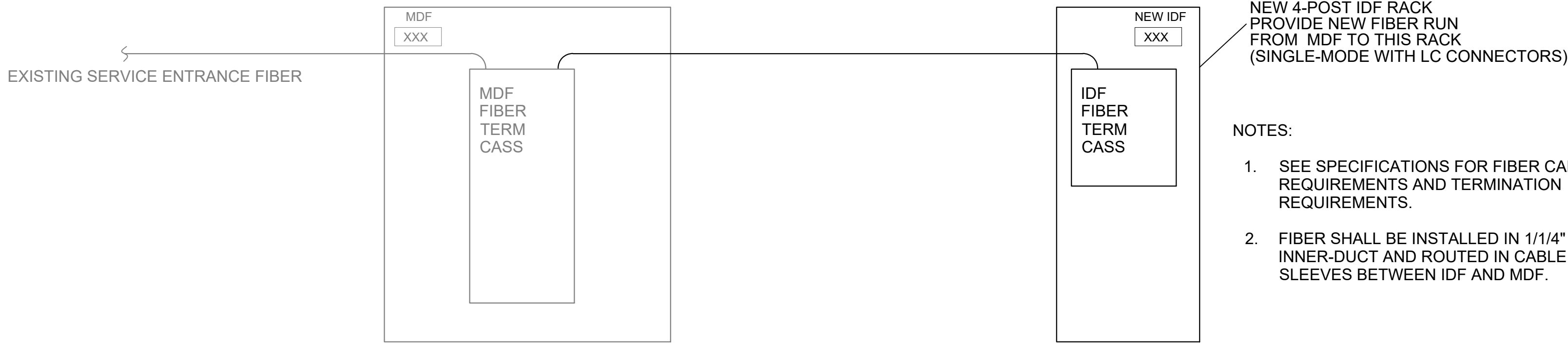


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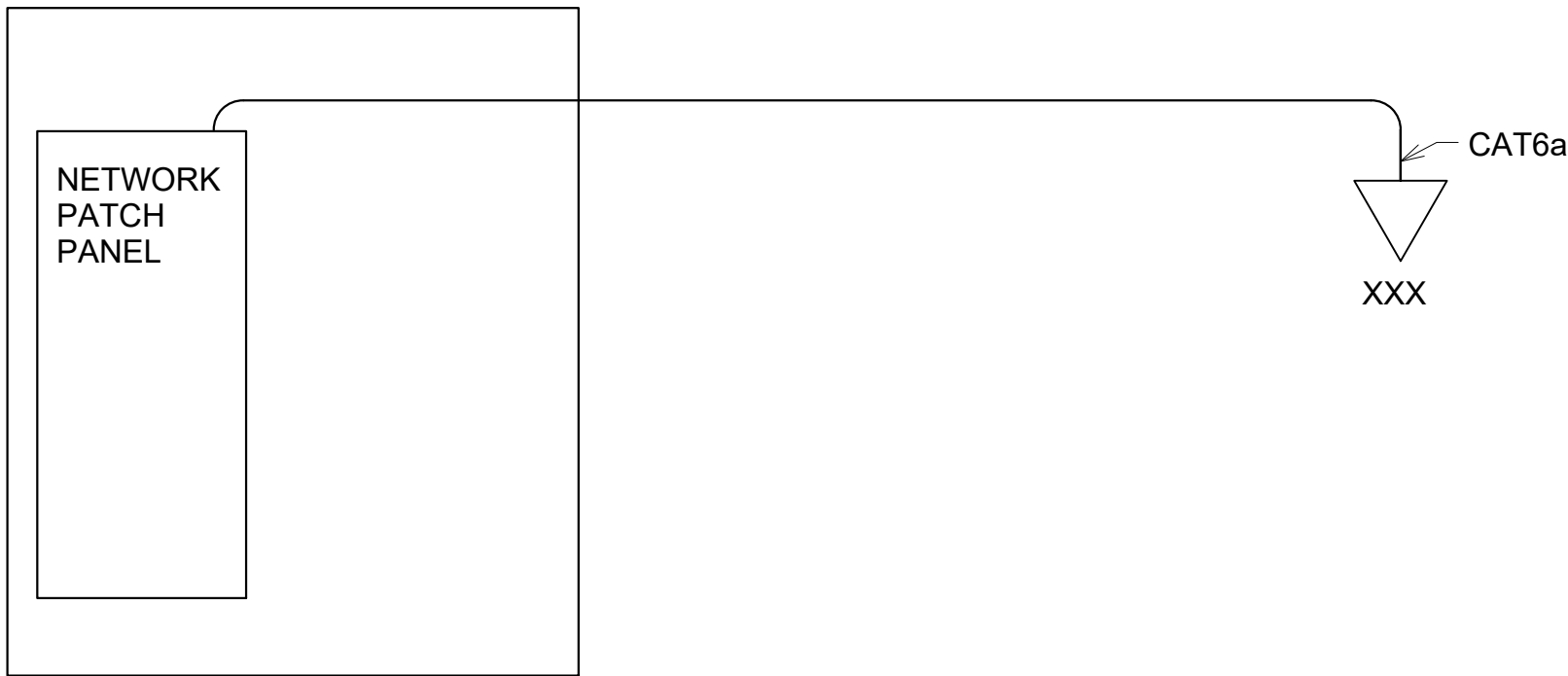
ELECTRICAL SPECIAL SYSTEMS PLANS

DRAWING NUMBER:

E5.0



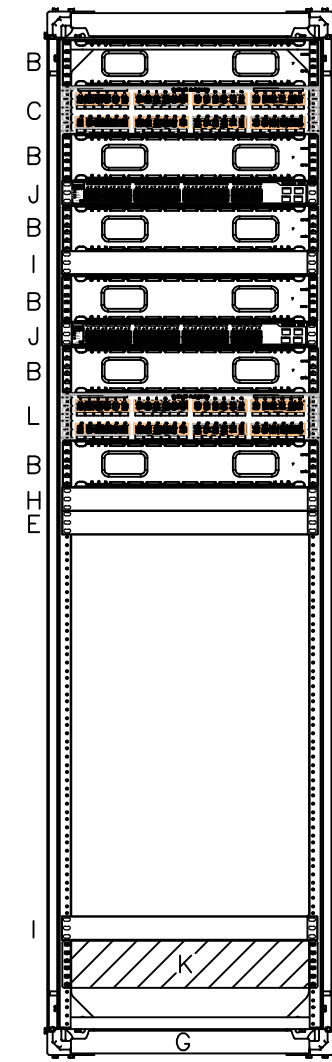
1 FIBER BACKBONE RISER
SCALE: N.T.S.



2 HORIZONTAL CABLE PLANT
SCALE: N.T.S.

- NOTES:
- SEE SPECIFICATIONS FOR FIBER CABLE TYPE REQUIREMENTS AND TERMINATION REQUIREMENTS.
 - FIBER SHALL BE INSTALLED IN 1/1/4" INNER-DUCT AND ROUTED IN CABLE TRAY AND SLEEVES BETWEEN IDF AND MDF.

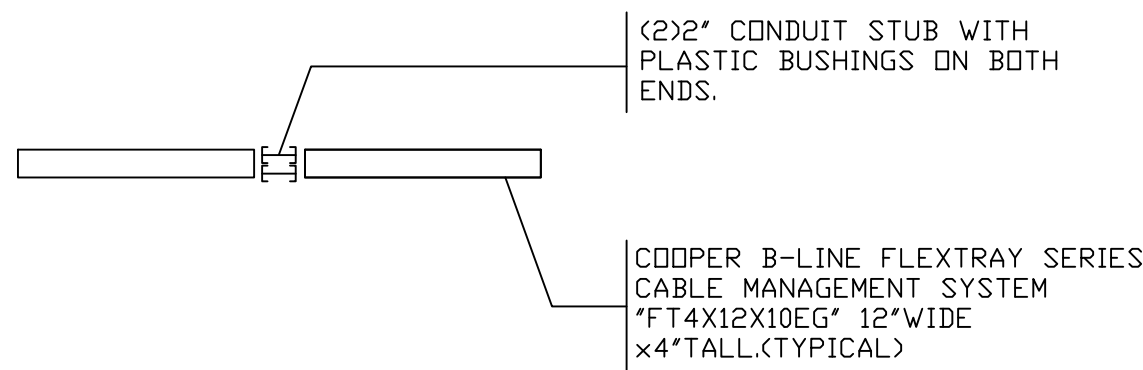
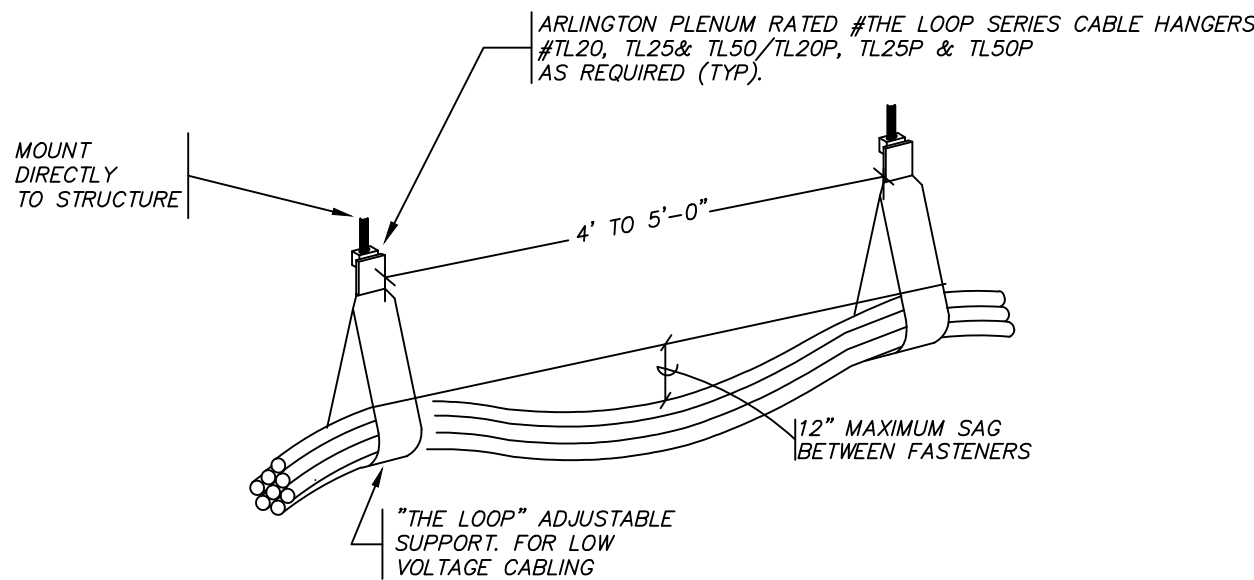
- NOTES:
- ALL BRANCH CABLING SHALL BE CAT6a PLENUM.
 - COLOR CODE AS FOLLOWS
 - DATA CABLE & JACKS (BLUE)
 - VOICE CABLE & JACKS (YELLOW)
 - POE CABLE & JACKS (PURPLE/VIOLET)
 - SECURITY CABLE & JACKS (GRAY)
 - ALL DROPS SHALL BE LABELED AT THE ROOM FACEPLATE, MDF, AND IDF'S PER DISTRICT LABELING REQUIREMENTS.
 - ALL LINES SHALL BE TESTED WITH COMPLETED DOCUMENTATION BEING SUBMITTED ELECTRONICALLY TO THE DISTRICT AND DESIGN TEAM.
 - RECORD DRAWINGS SHALL BE PROVIDED PER DISTRICT STANDARDS.
 - SEE FLOOR PLANS FOR DROP LOCATIONS AND DROP QUANTITIES.
 - SEE DETAILS BELOW FOR DROP TYPES AND ASSOCIATED CABLE COUNTS AND TYPES



- RACK SCHEDULE:
- - HORIZONTAL WIRE MANAGEMENT UNIT – PANDUIT PEHF – (2,3 OR 4)
 - 48-PORT CAT6 "DATA" PATCH PANEL – PANDUIT DP48688TGY
 -
 - FIBER TERMINATION CASSETTE – PANDUIT FRME1
 -
 - 4-POST RACK – CHATSWORTH 15053-703
 - ROUTER (PROVIDED/INSTALLED BY OWNER)
 - GEIST ATRN102-102R20S5 BASIC TRANSFER SWITCH
 - SWITCH (PROVIDED/INSTALLED BY OWNER)
 - UPS UNIT – ENTERPRISEPLUS E1500RM2U W/NEMA 15-P PLUG (PROVIDED/INSTALLED BY OWNER).
 - 48-PORT CAT6 PATCH PANEL (POE) – PANDUIT DP48688TGY

- NOTES:
- PROVIDE (1) CHATSWORTH 12639-001 CAGE NUT SETS
 - PROVIDE (1) CHATSWORTH 40605-005 RACK SCREW
 - PROVIDE WALL-MOUNT RACK CABLE MANAGEMENT SET CHATSWORTH 11799-001
 - USE CBL RUNWAY RADIUS DROP UNITS TO TRANSITION FROM LADDER TO VERTICAL WIRE MANAGEMENT UNITS, CHATSWORTH 12100 SERIES
 - PROVIDE A MINIMUM OF 15'0" SERVICE LOOP ON ALL CABLES IN LADDER BEFORE TERMINATING ON PATCH PANELS.
 - BOND ALL METALLIC EQUIPMENT IN MDF TO BUS BARS.
 - DO NOT OVER FILL CONDUIT SLEEVES.
 - PROVIDE 25% SPARE CAPACITY IN PATCH PANELS IN IDF.
 - PROVIDE PULL STRING IN ALL CONDUITS TO EXTERIOR.

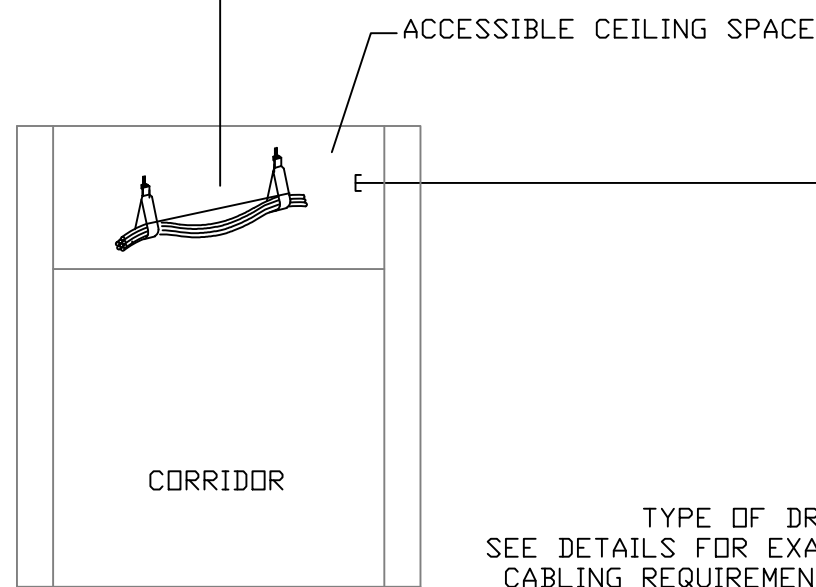
3 IDF EQUIPMENT ELEVATION
SCALE: N.T.S.



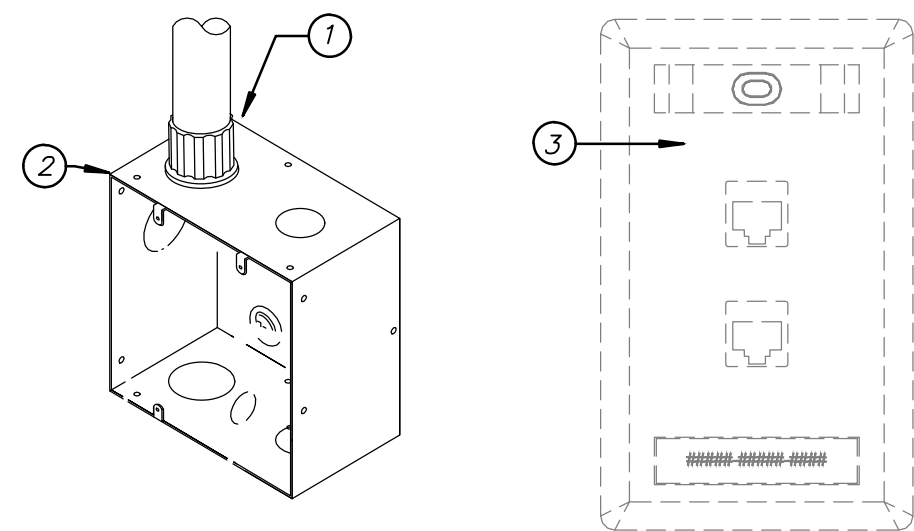
4 FLEX TRAY
SCALE: N.T.S.

EXPOSED VISIBLE CABLE IS NOT ACCEPTABLE UNLESS THE CABLE IS IN THE FLEX TRAY.

CABLE CAN BE RUN WITH BRIDAL RINGS ABOVE THE ACCESSIBLE CEILINGS WHERE IT IS NOT VISIBLE.



5 LOW VOLTAGE SPECIAL SYSTEMS SUPPORT REQUIREMENTS
SCALE: N.T.S.



- DETAIL NOTES: #
- ELECTRICAL CONTRACTOR TO PROVIDE 1" TO CORRIDOR ACCESSIBLE CEILING.
 - ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE x 2-7/8"D OUTLET BACK BOX WITH A SINGLE GANG MUD RING.
 - TELECOMMUNICATION CONTRACTOR TO PROVIDE HORIZONTAL CABLING FACE PLATE AND JACKS

6 INTERIOR COM/DATA WALL OUTLET ROUGH-IN REQUIREMENTS
SCALE: N.T.S.

PROJECT NUMBER: 2022-104

FIRST PRESBYTERIAN CHURCH - EDUCATION WING RENOVATION

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419 CANYON AVE STE 200, FORT COLLINS, CO 80521
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INTEGRATED MEP

ELECTRICAL ENGINEER:
APS, INC.

PERMIT

SHEET ISSUANCES	DATE
DESCRIPTION	
PERMIT	06-11-2025

SEAL:



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ELECTRICAL SPECIAL SYSTEMS DETAILS

DRAWING NUMBER:

E5.1

From: [Sean Kemper](#)
To: [Yani Jones](#)
Subject: [EXTERNAL] RE: Permit B2504704 - Historic Preservation Review
Date: Thursday, July 3, 2025 11:27:07 AM

Hello Yani! Thanks for reaching out. Please see my comments below in [blue](#)

Let me know if you need anything else!



Sean Kemper
Project Manager
cell 970.698.1263
office 970.744.4731
7380 Greendale Road, Suite A, Windsor, CO 80550
elderconstructioninc.com
  

From: Yani Jones <yjones@fcgov.com>
Sent: Thursday, July 3, 2025 11:08 AM
To: Sean Kemper <sean.kemper@elderconstructioninc.com>
Subject: Permit B2504704 - Historic Preservation Review

Hi Sean!

I was routed on the review of your permit application for the First Presbyterian Church because that property is designated as historic on the State Register of Historic Places. I don't really have any concerns about the project, but I have a couple clarifying questions when you have a moment:

- I see that the intent is to replace those AC/PTAC units on the Education Wing with salvaged windows – That's great to hear! It looks like only 4 matching windows are being removed for the new tower though – Did the church folks have the rest of the sashes needed in storage?
[We will do our best to salvage and reuse material, so the sashes are the same as existing. If for any reason we need additional material, our plan is to procure something that will match as closely as possible](#)
- For the exterior light fixtures, would you please either send the product that's going to be used or a description of the intended style and material of the fixture if it's not yet selected? [See below link for the light fixture that is to be used on the project](#)

<https://www.electricbargainstores.com/product-p/lithonia-dsxw1-110993.htm?srsltid=AfmBOoojwcZKvveUiToT7aRseiNhnZiMrPOaxTN0yf4vvnXOMW2p5mVp>

I'll go ahead and put a "hold" on the permit so that the Building folks know you're getting me this stuff – I should be able to generate the required report for Historic Preservation Design Review pretty quickly once I have this info, and I'll be sure to send you a copy for your records.

Thanks!

Yani

.....

YANI JONES

Pronouns: She/Her ([What's this?](#))

Historic Preservation Planner

City of Fort Collins Historic Preservation Services

(970) 224-6045

<https://www.fcgov.com/historicpreservation/>

Get monthly historic preservation updates in your inbox by toggling on “Historic Preservation Matters” [here](#), or email preservation@fcgov.com to be added to the newsletter mailing list!



d#series

D-Series Size 1 LED Wall Luminaire



Catalog
Number

Notes

Type

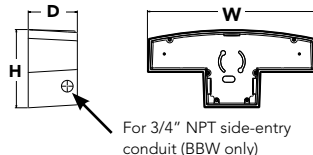
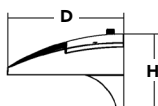
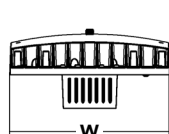
Hit the Tab key or mouse over the page to see all interactive elements.

Specifications Luminaire

Width:	13-3/4" (34.9 cm)	Weight:	12 lbs (5.4 kg)
Depth:	10" (25.4 cm)		
Height:	6-3/8" (16.2 cm)		

Back Box (BBW, E20WC)

Width:	13-3/4" (34.9 cm)	BBW Weight:	5 lbs (2.3 kg)
Depth:	4" (10.2 cm)	E20WC Weight:	10 lbs (4.5 kg)
Height:	6-3/8" (16.2 cm)		



Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and significant energy savings, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW1 LED P2 40K 70CRI T3M MVOLT SRM DDBTXD

DSXW1 LED									
Series	Lumen Package	CCT	CRI	Distribution		Voltage	Mounting	Control Options	
DSXW1 LED	P1 2000 Lumens	27K 2700K	70CRI 70CRI	T2S	Type 2 Short	MVOLT	Shipped included	Shipped installed	
	P2 2200 Lumens	30K 3000K	80CRI 80CRI ²	T2M	Type 2 Medium	120 ⁵	SRM Surface mounting bracket	PE	Photoelectric cell, button type ⁸
	P3 3200 Lumens	35K 3500K	AMCRI Amber CRI	T3LG	Type 3 Low Glare ⁴	208 ⁵	BBW Surface-mounted back box (for conduit entry) ⁷	DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)
	P4 4300 Lumens	40K 4000K		T3M	Type 3 Medium	240 ⁵		PIR	180° motion/ambient light sensor, <15' mtg ht ⁹
	P5 5200 Lumens	50K 5000K		T4M	Type 4 Medium	277 ⁵		PIRH	180° motion/ambient light sensor, 15-30' mtg ht ⁹
	P6 7200 Lumens	57K 5700K		TFTM	Forward Throw Medium	347 ^{5,6}		PIR1FC3V	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ⁹
	P7 10000 Lumens	AMBPC Amber PC ³ AMBLW Amber LW ^{1,3}		BLC3	Back Light Control Type 3 ⁴	480 ^{5,6} HVOLT ⁶		PIRH1FC3V	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ⁹
				BLC4	Back Light Control Type 4 ⁴			E20WC	20 Watt Emergency battery backup (includes external component enclosure), CA Title 20 Compliant ¹⁰
								E10WH	10 Watt Emergency battery backup (includes external component enclosure), CA Title 20 compliant ¹⁰

Other Options

Finish (required)

Shipped installed

SF	Single fuse (120, 277 or 347V) ^{5,11}
DF	Double fuse (208, 240 or 480V) ^{5,11}
HS	House-side shield ¹²
SPD	Separate surge protection

Shipped separately¹²

BSW	Bird-deterrent spikes
VG	Vandal guard
DDL	Diffused drop lens

DDBXD	Dark bronze	DSSXD	Sandstone
DBLXD	Black	DDBTXD	Textured dark bronze
DNAXD	Natural aluminum	DBLBXD	Textured black
DWHXD	White	DNATXD	Textured natural aluminum

DWHGXD	Textured white
DSSTXD	Textured sandstone

Accessories

Ordered and shipped separately.

DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXW1VG U	Vandal guard accessory

NOTES

- Only available with P1 and P6 Packages.
- Not available with 57K.
- Only Available with AMCRI.
- Not available with HS Option.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Not available with P1 package. Not available with motion/ambient light sensors (PIR or PIRH). Not Available with DMG.
- Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory. Not Available with E20WC or E10WH.

- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- Reference Motion Sensor table on page 3. Not available with DMG.
- Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with SF and DF fusing. Not available with 347, 480, HVOLT voltage options. Emergency components located in back box housing. Not available with SPD.
- Not available with E20WC and E10WH.
- Also available as a separate accessory; see Accessories information.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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DSXW1-LED
Rev. 12/12/24

COMMERCIAL OUTDOOR

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Contact factory for performance data on any configurations not shown here.

Package	Dist. Type	System Watts	30K, 70CRI		40K, 70CRI		50K, 70CRI	
			Lumens	LPW	Lumens	LPW	Lumens	LPW
P1	T2M	12	1,840	149	1,965	159	1,993	161
	T3M	12	1,786	144	1,908	154	1,934	156
	T4M	12	1,821	147	1,946	157	1,973	159
	TFTM	12	1,816	147	1,940	157	1,967	159
	BLC4	12	1,382	112	1,476	119	1,497	121
P2	T2M	15	2,189	150	2,339	160	2,371	163
	T3M	15	2,126	146	2,271	156	2,302	158
	T4M	15	2,168	149	2,316	159	2,348	161
	TFTM	15	2,161	148	2,309	158	2,341	161
	BLC4	15	1,645	113	1,757	121	1,781	122
P3	T2M	21	3,064	146	3,273	155	3,318	158
	T3M	21	2,974	141	3,177	151	3,222	153
	T4M	21	3,033	144	3,240	154	3,285	156
	TFTM	21	3,024	144	3,231	153	3,275	156
	BLC4	21	2,302	109	2,459	117	2,493	118
P4	T2M	29	3,997	139	4,269	149	4,329	151
	T3M	29	3,880	135	4,145	145	4,203	147
	T4M	29	3,957	138	4,227	147	4,286	149
	TFTM	29	3,945	138	4,214	147	4,273	149
	BLC4	29	3,002	105	3,207	112	3,252	113
P5	T2M	37	4,977	134	5,317	143	5,391	145
	T3M	37	4,832	130	5,162	139	5,233	141
	T4M	37	4,928	132	5,264	142	5,337	144
	TFTM	37	4,913	132	5,248	141	5,321	143
	BLC4	37	3,739	101	3,994	107	4,050	109
P6	T2M	48	6,867	142	7,335	152	7,437	154
	T3M	48	6,667	138	7,122	148	7,220	150
	T4M	48	6,798	141	7,262	151	7,363	153
	TFTM	48	6,778	140	7,241	150	7,341	152
	BLC4	48	5,158	107	5,511	114	5,587	116
P7	T2M	73	9,819	135	10,490	145	10,635	147
	T3M	73	9,533	131	10,184	140	10,325	142
	T4M	73	9,722	134	10,385	143	10,529	145
	TFTM	73	9,693	134	10,354	143	10,498	145
	BLC4	73	7,377	102	7,880	109	7,989	110

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Electrical Load

Performance Package	LEDs	Drive Current (mA)	System Watts	Current (A)					
				120V	208V	240V	277V	347V	480V
DSXW1 P1	10	375	12	0.10	0.06	0.05	0.04	-	-
DSXW1 P2	10	450	15	0.12	0.07	0.06	0.05	0.04	0.03
DSXW1 P3	10	650	21	0.18	0.10	0.09	0.08	0.06	0.05
DSXW1 P4	10	875	29	0.24	0.14	0.12	0.10	0.08	0.06
DSXW1 P5	10	1125	37	0.30	0.18	0.16	0.14	0.11	0.08
DSXW1 P6	20	750	48	0.39	0.24	0.20	0.18	0.14	0.10
DSXW1 P7	20	1150	73	0.60	0.36	0.31	0.27	0.21	0.15

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW1 LED P7** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.91	0.82

Motion Sensor Default Settings

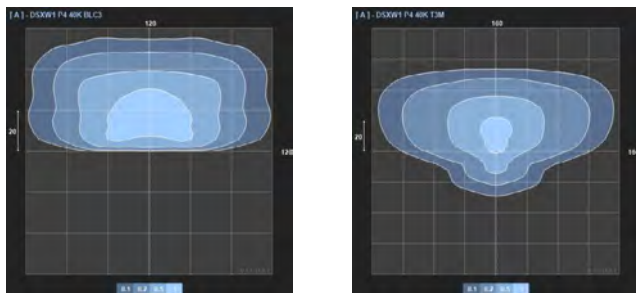
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*For use when motion sensor is used as dusk to dawn control

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Wall Size 1 homepage](#).

Isofootcandle plots for the DSXW1 LED P4 40K. Distances are in units of mounting height (20').



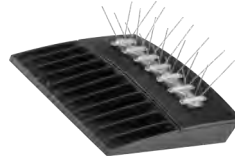
Options and Accessories



T3M (left)



HS - House-side shields



BSW - Bird-deterrent spikes



VG - Vandal guard



DDL - Diffused drop lens

FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION

Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. IP66 rated light engine.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in multiple CCTs and CRIs including Amber for specialized applications.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and a minimum 6KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



COMMERCIAL OUTDOOR

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