Monroe County Historical Association Alteration & Heritage Center Addition
900 Main Street, Stroudsburg, PA 18360

This Addendum forms part of the Contract Documents and modifies the original Bidding documents dated February 07, 2023 as noted below. Acknowledge receipt of this Addendum by inserting its number and date in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification. This addendum consists of ninety (90) page(s) and attachments as listed.

I. CHANGES TO THE PREVIOUS ADDENDA

N/A

II. GENERAL INFORMATION

Building demolition design intent:
The 1890's wood frame building addition, shown on drawing D101 & D102, is to be razed as "non-selective demolition" except for the salvaged exhibit portion per note E1. Mech and Electrical items with-in the razed building may be part of the non-selective building demolition.

Cut and Patch design intent with-in the existing historic building:
Mechanical and Electrical cut and restoration of the substrate surface is to be performed by the trade requiring access. Finish coat of plaster/spackle and paint matching adjacent existing color is to be performed by Div 09 trades. Refer to section 01 7329 for additional requirements.

III. CHANGES TO BIDDING REQUIREMENTS

N/A

V. CHANGES TO THE SPECIFICATIONS

Section TOC:	ADD sections 07 3113 and 07 4646 listed below. REVISE section 08 5200 title to read "Wood Windows" as listed below. REVISE section 10 1400 title to read "Signage" as listed below. DELETE section 10 1423 from the Table of Contents.
Section 01 3100	Project Management and Coordination, PAR 1.3.B.1, INSERT the following: "1a The Construction Schedule shall include a 3-calendar day period, after completion of the foundation excavation, for the Owner's work force to survey the excavation for potential artifacts of interest. The contractor shall not work in the foundation excavation during this period."
Section 01 5000	Temporary Enclosure Fence, Par 3.4.E.1, Insert the following: "1b. 6-ft hgt. chain-link panel fence with support stantions may be acceptable, in lieu of post set fencing, if the contractor can demonstrate its integrity can be assured. Refer to Sketch 01 1500 – Temporary Fence Layout attached to this addendum."

Section 07 3113	ASPHALT SHINGLES, newly issued section is attached.
Section 07 4646	FIBER-CEMENT SIDING, newly issued section is attached.
Section 08 5200	WOOD WINDOWS, newly issued section is attached.
Section 10 1400	SIGNAGE, newly issued section is attached.
Section 23 0900	AUTOMATIC TEMPERATURE CONTROLS, revised sections 2.1.4, 2.1.5, 2.5A. Reissued section is attached.
Section 23 0901	AUTOMATIC TEMPERATURE CONTROLS SEQUENCE OF OPERATIONS, revised sections 1.15, 1.16, 1.18, 2.3, 2.4, 2.7, & 2.8. Reissued section is attached.
Section 31 2000	Earthwork – Par 3.24, INSERT the following: "D. Excess site excavation materials are to be hauled to a location defined by the owner. The location is a DEP approved dump site located approximately 8 miles from the Stroud Mansion jobsite. Bulk excavation materials that will be accepted are soils, sand, gravel, stone, and concrete/cement foundation ruins from this project site. Building demolition debris will not be accepted."

VI. CHANGES TO THE DRAWINGS

S102 ADD Partition Support Detail and plan revisions for Alt Bid Item GC-02

D101 ADD the following note:

"Refer to spec section 00 3126.01 MCHS Stroud Mansion Asbestos Report for hazardous material abatement required prior to building demolition." ACM identified in the report are as follows:

Reference: EHS report # 22-11-02055 and #22-11-03884

Sample A- Mansion- boiler room ceiling spackle and tape- 2% chrysotile- **approx. 202.5 sq.ft**.
Sample B- Mansion -boiler room - flue mastic- 2nd layer – 40% chrysotile- **approx. 3 sq.ft**.
Sample H- 1893 building- 2nd floor bathroom VAT (vinyl asbestos tile) – 3% chrysotile- **approx. 200 sq.ft.**
Sample I- 1893 building- 2nd floor VAT mastic - < 1% chrysotile, composite material- **approx. 200 sq.ft.**

D102 ADD the following note:

"Refer to spec section 00 3126.01 MCHS Stroud Mansion Asbestos Report for hazardous material abatement required prior to building demolition."

A001 ADD limits of work associated with Alt Bid Item GC-01 Courtyard sitework.

A010 ADD Partition Type 9 – GWB furring.

A100 ADD General Project Note to Construction Notes.

A101 ADD Alt Bid Item GC-02 Operable partition.
ADD Detail 2/A101 – Plan Detail Operable Wall Pocket.
ADD Section marks at courtyard walls.
ADD General Project Note to Construction Note

A102 ADD General Project Note to Construction Notes

A103 ADD General Project Note to Construction Notes

A104 ADD the following roof note associated with Alt Bid Item GC-03 – Slate Shingle Roofing:
Grade: S1
Shingle Size: 10 x 20
Roof area: Approximately 500-sf (5 square)
Description: Spanish Black
Supplier: Greenstone Sate Quarry, Vermont

Installation Standards: Complying with SRCA (Slate Roofing Contractors Association)

A201 – A202 ADD Building Elevation/Section Legend

A301 ADD General Project Note and references to 9/A322 – Section Detail Typical Beam Enclosure in Section A & Section B

A302 ADD General Project Note and references to 9/A322 – Section Detail Typical Beam Enclosure in Section C & Section E

A303 ADD General Project Note and references to 9/A322 – Section Detail Typical Beam Enclosure in Section F & Section G

A322 ADD 9/A322 Section Detail – Typical Beam Enclosure

A500 – A503 ADD the following note to clarify Cut and Patch design intent with-in the existing historic building: "Mechanical and Electrical cut and restoration of the substrate surface is to be performed by the trade requiring access. Finish coat of plaster/spackle and paint matching adjacent existing color is to be performed by Div 09 trades. Refer to section 01 7329 for additional requirements."

M101 MODIFY thermostat control for baseboard heat.

M102 MODIFY thermostat control for baseboard heat.

M103 MODIFY thermostat control for baseboard heat.

M501 MODIFY 2-way control valve detail

M600 MODIFY Ductless Split Indoor Unit Schedule

P100 MODIFY connect to existing note.

P103 ADD water piping to washer box in Cleaning 317.

P200 ADD pump station control panel and battery back-up.

P202 ADD sanitary piping to washer box in Cleaning 317.

P203 ADD sanitary piping to washer box in Cleaning 317.

P500 MODIFY Riser Diagrams.

P501 ADD Ejector Pump and Sump Pump Details.

P600 MODIFY plumbing fixture schedule.

E100 ADD power for shaft fire/smoke dampers. Added note by symbol 23.

E101 ADD power for shaft fire/smoke dampers. Added note by symbol 23.

E102 ADD power for shaft fire/smoke dampers. Added note by symbol 23.

E103 ADD power for shaft fire/smoke dampers. Added note by symbol 23.

E500 ADD fire/smoke damper detail.

E600 ADD circuits in panel schedules for fire/smoke dampers.

VII. RFI QUESTIONS ('Q') AND ANSWERS ('A')

a) **Q:** May we have the anticipated start and completion dates?
A: Anticipated start date is 04/2023 with the project substantially complete within four hundred twenty-five (425) consecutive calendar days as outlined in the Instructions to Bidders

b) **Q:** Will the owner secure a Lay down area for trailers and storage?
A: Refer to attached "Possible Construction Staging Areas" in Addendum 1 – 02.07.2023. Contractor to make all arrangements directly with potential property owners.

c) **Q:** Will the Mandatory Pre-Bid Meeting Attendees List be posted?
A: Refer to attached Contractor Sign-In sheet in Addendum 01 – 02.07.2023.

ATTACHMENTS – The following are attached hereto and made a part of the contract documents:

Minutes:
Pre-Bid Conference meeting minutes and contractor sign-in sheet.

General Information:
List of "Possible locations for contractor off-site staging"
Specifications:

SECTION 07 3113:	ASPHALT SHINGLES
SECTION 07 4646:	FIBER-CEMENT SIDING
SECTION 08 5200:	WOOD WINDOWS
SECTION 10 1400:	SIGNAGE
SECTION 23 0900:	ATC
SECTION 23 0901	ATC SEQUENCE OF OPERATIONS

Sketches:
015000 – Temporary Fencing Layout

Drawings:
S102 – Rev 02.07.23
D101 – Rev 02.07.23
D102 – Rev 02.07.23
A001 – Rev 02.07.23
A010 – Rev 02.07.23
A100 – Rev 02.07.23
A101 – Rev 02.07.23
A102 – Rev 02.07.23
A103 – Rev 02.07.23
A104 – Rev 02.07.23
A201 – Rev 02.07.23
A202 – Rev 02.07.23
A301 – Rev 02.07.23
A302 – Rev 02.07.23
A303 – Rev 02.07.23
A322 – Rev 02.07.23
A500 – Rev 02.07.23
A501 – Rev 02.07.23
A502 – Rev 02.07.23
A503 – Rev 02.07.23
M101 – Rev 02.07.23
M102 – Rev 02.07.23
M103 – Rev 02.07.23
M501 – Rev 02.07.23
M600 – Rev 02.07.23
P100 – Rev 02.07.23
P103 – Rev 02.07.23
P200 – Rev 02.07.23
P202 – Rev 02.07.23
P203 – Rev 02.07.23
P500 – Rev 02.07.23

P501 – Rev 02.07.23
P600 – Rev 02.07.23
E100 – Rev 02.07.23
E101 – Rev 02.07.23
E102 – Rev 02.07.23
E103 – Rev 02.07.23
E500 – Rev 02.07.23
E600 – Rev 02.07.23

END OF ADDENDUM No. 1

Monroe County Historic Association
Stroud Mansion Heritage Center Expansion

Meeting Minutes – Pre-Bid Conference February 2, 2023

MKSD Project No. 16.200
Location of Project: 900 Main Street, Stroudsburg, PA 18360

Project Title: MCHA Stroud Mansion Heritage Center Expansion Project

Attendance:

Representing		
MKSD, LLC	(MKSD)	John Young (JY) Scott Focht (SF)
Strunk-Albert	(SAE)	Bruce Thomas (BT)
MCHA	(MCHA)	Ken Sandri (KS) Bill Leonard (BL) Amy Leiser (AL) Pat Sayler (PS) David Policelli (DP) – Construction Manager

Refer to contractor sign-in sheet for attendees

Item	**Info**
1.0	MCHA introductions by BL a) Brief introduction of MCHA team members b) Unguided tour available after pre-bid meeting
2.0	DP introduction as Owner's CM-as-Agent
3.0	Project overview by JY of MKSD a) Contractor sign-in sheet, will be issued as part of Addendum 1 b) Advertisement, pre-bid agenda, and project alternate handouts are available for all attendees. c) Overview of Procurement and Contracting Requirements d) Overview of Communication during Bidding Period by SF of MKSD e) Overview of Contracting Requirements
4.0	Architectural overview given by JY of MKSD
5.0	Mechanical overview given by BT of SAE
6.0	Plumbing overview given by BT of SAE
7.0	Electrical overview given by BT of SAE
8.0	Project contracts overview given by JY of MKSD
9.0	Project schedule overview given by JY of MKSD
10.0	Site/facility walkthrough

Monroe County Historical Association

Heritage Center Addition

Mandatory Pre-Bid Conference, 10am Thursday, February 2, 2023

MKSD LLC Project No. 16.200

Company Name	Representative	Email Address	Phone Number	**Trade** GC (Prime) PC MC EC
RLS	Kristen Burns	kburns@rlscg.com	570-885-3961	GC
McClure Co.	Scott Tokash	scotttokash@mcclureco.com	570-506-7529	MC
Bracy	Nick Leuser	nleuser@bracyconstruction.com	484-523-0031	GC
D&M Construction Unlimited Inc.	Dustin Rudolfi	dustin@dandmconstruction.com	570-880-0990	GC
BEI Electrical	Craig Hartman	chartman@beielectrical.com	610-972-7771	EC
CMG of Easton	Conor Smith	csmith@cmgofeaston.com	610-258-0677	GC
Uhrig Construction	Kurt Fritz	kfritz@uhrig.com	610-816-4602	GC

Possible Construction Staging Areas
for Monroe County Historical Association Heritage Center Project

The Monroe County Historical Association, MKSD Architects, and any other persons or entities associated with this project make no guarantee that these properties are available or suitable for a construction staging area. Contractor to make all arrangements directly with property owner.

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Parking Lot 0.2 miles from Stroud Mansion
823 Ann St
Stroudsburg, PA
Portion of existing 1 acre parking lot may be available

Owner
Ken Barthold
570-688-3662

****

Vacant Lot 0.15 miles from Stroud Mansion
10 S 8th St (corner of 8th and Main Sts)
Stroudsburg, PA 18360
0.15 acres

Owner
Bob Deinarowicz
908-763-2610

****

Vacant lot 0.12 miles from Stroud Mansion
1009 Main St, Stroudsburg, PA
1.1 acres

Realtor
Michael J Volpone
RE/MAX Real Estate - Bethlehem
310 Stoke Park Rd
Bethlehem, PA 18017
610-691-6100
mjv18610@hotmail.com

****

Vacant parking lot at closed store - 1.4 miles from Stroud Mansion
1157 North 9th Street, Stroudsburg PA (across from Stroud Mall)
Approx 2-acre parking lot

Realtor
Greg Jones
J C Bar Property Management
(610) 234-6491
gjones@jcbarprop.com

SECTION 073113 - ASPHALT SHINGLES

Note: Refer to Alternate Bid Item GC-03 for Slate Roofing

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Asphalt shingles.
2. Underlayment.
3. Ridge vents.
4. Metal flashing and trim.

B. Related Requirements:

1. Section 077200 "Roof Accessories" for ridge vents.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For each exposed product and for each color and texture specified.

1.4 INFORMATIONAL SUBMITTALS

A. Product test reports.

B. Evaluation reports.

C. Sample warranty.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance data.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.

1.7 WARRANTY

A. Manufacturer's Warranty: Manufacturer agrees to repair or replace asphalt shingles that fail within specified warranty period.

1. Material Warranty Period: 35 years from date of Substantial Completion, nonprorated.
2. Wind-Speed Warranty Period: Asphalt shingles will resist blow-off or damage caused by wind speeds of up to 70 mph (31 m/s).
3. Algae-Resistance Warranty Period: Asphalt shingles will not discolor for 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Exterior Fire-Test Exposure: Provide asphalt shingles and related roofing materials identical to those of assemblies tested for Class A fire resistance according to ASTM E 108 or UL 790 by Underwriters Laboratories, Inc. or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify products with appropriate markings of applicable testing agency.

2.2 GLASS-FIBER-REINFORCED ASPHALT SHINGLES

A. Laminated-Strip Asphalt Shingles: ASTM D 3462/D 3462M, laminated, multi-ply overlay construction, glass-fiber reinforced, mineral-granule surfaced, and self-sealing.

1. GAF ‘Slateline’ or approved equal.
2. Butt Edge: Straight
3. Strip Size: Manufacturer's standard
4. Algae Resistance: Granules resist algae discoloration.
5. Impact Resistance: UL 2218, Class 4.
6. Color and Blends: As Selected by owner.

B. Hip and Ridge Shingles: Site-fabricated units cut from asphalt-shingle strips. Trim each side of lapped portion of unit to taper approximately 1 inch (25 mm)].

2.3 UNDERLAYMENT MATERIALS

A. Felt: ASTM D 226/D 226M asphalt-saturated organic felts, nonperforated.

1. Type: Type II.

B. Synthetic Underlayment: UV-resistant polypropylene, polyolefin, or polyethylene polymer fabric with surface coatings or treatments to improve traction underfoot and abrasion resistance; evaluated and documented to be suitable for use as a roof underlayment under applicable codes by a testing and inspecting agency acceptable to authorities having jurisdiction.

C. Self-Adhering Sheet Underlayment, Polyethylene Faced: ASTM D 1970/D 1970M, minimum of 40-mil- (1.0-mm-) thick, slip-resisting, polyethylene-film-reinforced top surface laminated to SBS-modified asphalt adhesive, with release backing; cold applied.

2.4 RIDGE VENTS

2.5 ACCESSORIES

A. Asphalt Roofing Cement: ASTM D 4586, Type II, asbestos free.

B. Roofing Nails: ASTM F 1667; aluminum, stainless-steel, copper, or hot-dip galvanized-steel wire shingle nails, minimum 0.120-inch- (3-mm-) diameter, sharp-pointed, with a minimum 3/8-inch- (9.5-mm-) diameter flat head and of sufficient length to penetrate 3/4 inch (19 mm) into solid wood decking or extend at least 1/8 inch (3 mm) through OSB or plywood sheathing.

1. Shank: Smooth
2. Where nails are in contact with metal flashing, use nails made from same metal as flashing.

C. Felt-Underlayment Nails: Aluminum, stainless-steel, or hot-dip galvanized-steel wire with low-profile capped heads or disc caps, 1-inch (25-mm) minimum diameter.

D. Synthetic-Underlayment Fasteners: As recommended in writing by synthetic-underlayment manufacturer for application indicated.

2.6 METAL FLASHING AND TRIM

A. General: Comply with requirements in Section 076200 "Sheet Metal Flashing and Trim."

1. Sheet Metal: Copper

B. Fabricate sheet metal flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of the item.

PART 3 - EXECUTION

3.1 UNDERLAYMENT INSTALLATION

A. General: Comply with underlayment manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.

B. Single-Layer Felt Underlayment: Install on roof deck parallel with and starting at the eaves. Lap sides a minimum of 2 inches (50 mm) over underlying course. Lap ends a minimum of 4 inches (100 mm). Stagger end laps between succeeding courses at least 72 inches (1830 mm). Fasten with felt-underlayment nails.

1. Install felt underlayment on roof deck not covered by self-adhering sheet underlayment. Lap sides of felt over self-adhering sheet underlayment not less than 3 inches (75 mm) in direction that sheds water. Lap ends of felt not less than 6 inches (150 mm) over self-adhering sheet underlayment.
2. Install fasteners at no more than 36 inches (914 mm) o.c.

C. Self-Adhering Sheet Underlayment: Install, wrinkle free, on roof deck. Comply with low-temperature installation restrictions of underlayment manufacturer if applicable. Install lapped in direction that sheds water. Lap sides not less than 3-1/2 inches (89 mm). Lap ends not less than 6 inches (150 mm) staggered 24 inches (600 mm) between courses. Roll laps with roller. Cover underlayment within seven days.

3.2 METAL FLASHING INSTALLATION

A. General: Install metal flashings and other sheet metal to comply with requirements in Section 076200 "Sheet Metal Flashing and Trim."

1. Install metal flashings according to recommendations in ARMA's "Residential Asphalt Roofing Manual" and NRCA's "NRCA Guidelines for Asphalt Shingle Roof Systems."

3.3 ASPHALT-SHINGLE INSTALLATION

A. General: Install asphalt shingles according to manufacturer's written instructions, recommendations in ARMA's "Residential Asphalt Roofing Manual," and recommendations in NRCA's "NRCA Guidelines for Asphalt Shingle Roof Systems."

B. Install starter strip along lowest roof edge, consisting of an asphalt-shingle strip with tabs removed at least 7 inches (175 mm) wide with self-sealing strip face up at roof edge.

1. Extend asphalt shingles 3/4 inch (19 mm) over fasciae at eaves and rakes.
2. Install starter strip along rake edge.

C. Install first and remaining courses of asphalt shingles stair-stepping diagonally across roof deck with manufacturer's recommended offset pattern at succeeding courses, maintaining uniform exposure.

D. Install first and remaining courses of asphalt shingles stair-stepping diagonally across roof deck with manufacturer's recommended offset pattern at succeeding courses, maintaining uniform exposure.

E. Install asphalt shingles by single-strip column or racking method, maintaining uniform exposure. Install full-length first course followed by cut second course, repeating alternating pattern in succeeding courses.

F. Fasten asphalt-shingle strips with a minimum of four roofing nails located according to manufacturer's written instructions.
   1. Where roof slope is less than 4:12, seal asphalt shingles with asphalt roofing cement spots.
   2. When ambient temperature during installation is below 50 deg F (10 deg C), seal asphalt shingles with asphalt roofing cement spots.

G. Open Valleys: Cut and fit asphalt shingles at open valleys, trimming upper concealed corners of shingle strips. Maintain uniform width of exposed open valley 1/8 inch in 12 inches (1:96) from highest to lowest point.

   1. Set valley edge of asphalt shingles in a 3-inch- (75-mm-) wide bed of asphalt roofing cement.
   2. Do not nail asphalt shingles to metal open-valley flashings.

H. Ridge Vents: Install continuous ridge vents over asphalt shingles according to manufacturer's written instructions. Fasten with roofing nails of sufficient length to penetrate sheathing.

I. Hip and Ridge Shingles: Maintain same exposure of cap shingles as roofing shingle exposure. Lap cap shingles at ridges to shed water away from direction of prevailing winds. Fasten with roofing nails of sufficient length to penetrate sheathing.

   1. Fasten ridge cap asphalt shingles to cover ridge vent without obstructing airflow.

END OF SECTION 07 3113

SECTION 074646 - FIBER-CEMENT SIDING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes fiber-cement siding and soffit.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For fiber-cement siding and soffit including related accessories.

1.3 INFORMATIONAL SUBMITTALS

A. Product certificates.

B. Product test reports.

C. Research/evaluation reports.

D. Sample warranty.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance data.

1.5 QUALITY ASSURANCE

A. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and to set quality standards for fabrication and installation.

1. Build mockup of typical wall area as shown on Drawings.
2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace products that fail in materials or workmanship within specified warranty period.

1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 FIBER-CEMENT SIDING

A. General: ASTM C1186, Type A, Grade II, fiber-cement board, noncombustible when tested according to ASTM E136; with a flame-spread index of 25 or less when tested according to ASTM E84.

1. Hardie Plank Lap Siding

B. Labeling: Provide fiber-cement siding that is tested and labeled according to ASTM C1186 by a qualified testing agency acceptable to authorities having jurisdiction.

C. Nominal Thickness: Not less than 5/16 inch

D. Horizontal Pattern: Boards 8-1/4 to 8-1/2 inches for 7” exposure.

1. Texture: Smooth

E. Factory Priming: Manufacturer's standard acrylic primer.

2.2 FIBER-CEMENT SOFFIT

A. General: ASTM C1186, Type A, Grade II, fiber-cement board, noncombustible when tested according to ASTM E136; with a flame-spread index of 25 or less when tested according to ASTM E84.

1. Hardie Plank Soffit

2. Approved Equal meeting the performance specifications.

B. Nominal Thickness: Not less than 5/16 inch (8 mm).

C. Pattern: 16-inch wide sheets with smooth texture

D. Factory Priming: Manufacturer's standard acrylic primer.

2.3 ACCESSORIES

A. Siding Accessories, General: Provide starter strips, edge trim, outside and inside corner caps, and other items as recommended by siding manufacturer for building configuration.

B. Flashing: Provide aluminum flashing complying with Section 076200 "Sheet Metal Flashing and Trim" at window and door heads and where indicated.

1. Finish for Aluminum Flashing: Siliconized polyester coating

C. Fasteners:

1. For fastening to wood, use ribbed bugle-head screws of sufficient length to penetrate a minimum of 1 inch (25 mm) into substrate.
2. For fastening to metal, use ribbed bugle-head screws of sufficient length to penetrate a minimum of 1/4 inch (6 mm), or three screw-threads, into substrate.
3. For fastening fiber cement, use hot-dip galvanized fasteners.

D. Insect Screening for Soffit Vents: glass-fiber fabric, 18-by-14 or 18-by-16 mesh

E. Round Soffit Vents: Stamped aluminum louvered vents, 2 inches in diameter.

1. Finish: White paint

PART 3 - EXECUTION

3.1 INSTALLATION

A. General: Comply with manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.

1. Install fasteners no more than 24 inches o.c.

B. Install joint sealants as specified in Section 079200 "Joint Sealants" and to produce a weathertight installation.

3.2 ADJUSTING AND CLEANING

A. Remove damaged, improperly installed, or otherwise defective materials and replace with new materials complying with specified requirements.

B. Clean finished surfaces according to manufacturer's written instructions and maintain in a clean condition during construction.

END OF SECTION 07 4646

SECTION 085200 - WOOD WINDOWS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes Fibrex-clad and Aluminum-clad wood windows.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Include plans, elevations, sections, hardware, accessories, insect screens, operational clearances, and details of installation, including anchor, flashing, and sealant installation.

C. Samples: For each exposed product and for each color specified.

1.3 INFORMATIONAL SUBMITTALS

A. Product test reports.

B. Sample warranties.

1.4 WARRANTY

A. Manufacturer's Warranty: Manufacturer agrees to repair or replace wood windows that fail in materials or workmanship within specified warranty period.

1. Warranty Period:

a. Window: 10 years from date of Substantial Completion.
b. Glazing Units: 20 years from date of Substantial Completion.
c. Vinyl Cladding: Lifetime warranty.

PART 2 - PRODUCTS

2.1 WINDOW PERFORMANCE REQUIREMENTS

A. Product Standard: Comply with AAMA/WDMA/CSA 101/I.S.2/A440 for definitions and minimum standards of performance, materials, components, accessories, and fabrication unless more stringent requirements are indicated.

1. Window Certification: WDMA certified with label attached to each window.

B. Performance Class and Grade: AAMA/WDMA/CSA 101/I.S.2/A440 as follows:

1. Minimum Performance Class: CW

C. Thermal Transmittance: NFRC 100 maximum whole-window U-factor of 0.30 Btu/sq. ft. x h x deg F .

D. Solar Heat-Gain Coefficient (SHGC): NFRC 200 maximum whole-window SHGC of 0.40.

2.2 WOOD WINDOWS

A. Aluminum-Clad Wood Windows:

1. Basis of Design: Anderson, 400 Series Woodwright double hung window.

2. Approved Equal

B. Operating Types: As indicated on Drawings

C. Frames and Sashes: Fine-grained wood lumber complying with AAMA/WDMA/CSA 101/I.S.2/A440; kiln dried to a moisture content of not more than 12 percent at time of fabrication; free of visible finger joints, blue stain, knots, pitch pockets, and surface checks larger than 1/32 inch (0.8 mm) deep by 2 inches (51 mm) wide; water-repellent preservative treated.

1. Exterior Finish Basis of Design: Fibrex Vinyl-Wood Polymer
   Note: Aluminum Clad wood window meeting the performance specified will be considered.
   a. Color: As selected by Architect from manufacturer's full range

2. Interior Finish: Manufacturer's standard stain-and-varnish finish

   a. Exposed Unfinished Wood Surfaces: Pine
   b. Color: As selected by Architect from manufacturer's full range

D. Glass: Clear annealed glass, ASTM C 1036, Type 1, Class 1, q3.

1. Kind: Fully tempered where indicated on Drawings

E. Insulating-Glass Units: ASTM E 2190.

1. Glass: ASTM C 1036, Type 1, Class 1, q3.

a. Tint: Clear
b. Kind: Fully tempered where indicated on Drawings

2. Lites: Two
3. Filling: Fill space between glass lites with argon.
4. Low-E Coating: Sputtered on third surface

F. Glazing System: Manufacturer's standard factory-glazing system that produces weathertight seal

G. Hardware, General: Provide manufacturer's standard corrosion-resistant hardware sized to accommodate sash weight and dimensions.

1. Exposed Hardware Color and Finish: As selected by Architect from manufacturer's stndard range

H. Weather Stripping: Provide full-perimeter weather stripping for each operable sash unless otherwise indicated.

I. Fasteners: Noncorrosive and compatible with window members, trim, hardware, anchors, and other components.

1. Exposed Fasteners: Do not use exposed fasteners to greatest extent possible. For application of hardware, use fasteners that match finish hardware being fastened.

2.3 FABRICATION

A. Fabricate wood windows in sizes indicated. Include a complete system for installing and anchoring windows.

B. Glaze wood windows in the factory.

C. Weather strip each operable sash to provide weathertight installation.

D. Mullions: Provide mullions and cover plates, matching window units, complete with anchors for support to structure and installation of window units. Allow for erection

tolerances and provide for movement of window units due to thermal expansion and building deflections. Provide mullions and cover plates capable of withstanding design wind loads of window units.

E. Complete fabrication, assembly, finishing, hardware application, and other work in the factory to greatest extent possible. Disassemble components only as necessary for shipment and installation. Allow for scribing, trimming, and fitting at Project site.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Comply with manufacturer's written instructions for installing windows, hardware, accessories, and other components. For installation procedures and requirements not addressed in manufacturer's written instructions, comply with installation requirements in ASTM E 2112.

B. Install windows level, plumb, square, true to line, without distortion, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction to produce weathertight construction.

C. Adjust operating sashes and hardware for a tight fit at contact points and weather stripping for smooth operation and weathertight closure.

D. Clean exposed surfaces immediately after installing windows. Remove excess sealants, glazing materials, dirt, and other substances.

E. Remove and replace sashes if glass has been broken, chipped, cracked, abraded, or damaged during construction period.

END OF SECTION 08 5200

SECTION 10 1400 – SIGNAGE

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Acrylic Panel signs
   a. Scope: Provide one ADA sign at each of the following project spaces:
      1) Toilet Room
      2) Stair entrance door
      3) Exit door
      4) Elevator Entrance

2. Cast Metal Dimensional sign
   a. Scope: Main Entrance Exterior sign

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For panel signs.

1. Include fabrication and installation details and attachments to other work.
2. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
3. Show message list, typestyles, graphic elements, including raised characters and Braille, and layout for each sign at least half size.
4. Show locations of electrical service connections.
5. Include diagrams for power, signal, and control wiring.

C. Shop Drawings: For dimensional signs.

1. Include fabrication and installation details and attachments to other work.
2. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
3. Show message list, typestyles, graphic elements, and layout for each sign at least 1” = 1’-0”.
4. Show locations of electrical service connections.
5. Include diagrams for power, signal, and control wiring.

D. Samples: For each exposed product and for each color and texture specified.

E. Sign Schedule: Use same designations specified or indicated on Drawings or in a sign schedule.

1.3 INFORMATIONAL SUBMITTALS

A. Sample warranty.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance data.

1.5 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.

1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS,

2.1 PANEL SIGN ERFORMANCE REQUIREMENTS

A. Thermal Movements: For exterior signs, allow for thermal movements from ambient and surface temperature changes.

1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

B. Accessibility Standard: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines for Buildings and Facilities and ICC A117.1 for signs.

C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 PANEL SIGNS

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

B.

1. APCO Graphics, Inc.
2. ASI Sign Systems, Inc.
3. Best Sign Systems Inc.
4. Vomar Products, Inc.

C. Acrylic Panel Sign: Sign with smooth, uniform surfaces; with message and characters having uniform faces, sharp corners, and precisely formed lines and profiles; and as follows:

1. Acrylic Panel Sign: Frosted, Translucent Acrylic sheet with finish specified in "Surface Finish and Applied Graphics" Subparagraph below and as follows:

    a. Surface-Applied Graphics: Applied, raised Opaque Acrylic raised letters and figures.

2. Sign-Panel Perimeter: Finish edges smooth.

    a. Horizontal Edges: Square cut.
    b. Corner Condition in Elevation: Square.

3. Mounting: 1/8” standoff from face of wall to rear of panel. Manufacturer's standard method for substrates indicated, ie: countersunk flathead through fasteners or two-face tape behind opaque panels only.
4. Surface Finish and Applied Graphics:
    a. Integral Acrylic Surface-Applied Graphics: As selected by Architect from full range of industry colors.

2.3 DIMENSIONAL CHARACTERS

A. **Cast Metal Characters** (Exterior Locations): Characters with uniform faces, sharp corners, and precisely formed lines and profiles, and as follows:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
    a. ASI Sign Systems, Inc.
    b. Gemini Incorporated.
    c. Matthews International Corporation; Bronze Division.
    d. Metal Arts; Division of L & H Mfg. Co.
    e. Metallic Arts.
    f. Steel Art Company.

2. Character Material: Cast aluminum.
3. Character Height: As indicated.
4. Finishes:
    a. Integral Aluminum Finish: Clear anodized.
    b. Overcoat: Manufacturer's standard baked-on clear coating.

5. Mounting: Concealed studs.

2.4 ACCESSORIES

A. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of signage, noncorrosive and compatible with each material joined, and complying with the following:

1. Use concealed fasteners and anchors unless indicated to be exposed.
2. For exterior exposure, furnish stainless-steel devices unless otherwise indicated.
3. Exposed Metal-Fastener Components, General:

    a. Fabricated from same basic metal and finish of fastened metal unless otherwise indicated.

4. Sign Mounting Fasteners:

    a. Concealed Studs: Concealed (blind), threaded studs welded or brazed to back of sign material or screwed into back of sign assembly, unless otherwise indicated.
    b. Projecting Studs: Threaded studs with sleeve spacer, welded or brazed to back of sign material or screwed into back of sign assembly, unless otherwise indicated.
    c. Through Fasteners: Exposed metal fasteners matching sign finish, with type of head indicated, installed in predrilled holes.

B. Adhesives: As recommended by sign manufacturer and with a VOC content of 70 g/L or less for adhesives used inside the weatherproofing system and applied on-site when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

C. Two-Face Tape: Manufacturer's standard high-bond, foam-core tape, 0.045 inch (1.14 mm) thick, with adhesive on both sides.

D. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187.

2.5 FABRICATION

A. General: Provide manufacturer's standard sign assemblies according to requirements indicated.

1. Mill joints to a tight, hairline fit. Form assemblies and joints exposed to weather to resist water penetration and retention.
2. Provide welds and brazes behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded and brazed connections of flux, and dress exposed and contact surfaces.
3. Conceal connections if possible; otherwise, locate connections where they are inconspicuous.
4. Internally brace signs for stability and for securing fasteners.
5. Provide rebates, lugs, and brackets necessary to assemble components and to attach to existing work. Drill and tap for required fasteners. Use concealed fasteners where possible; use exposed fasteners that match sign finish.

B. Surface-Engraved Graphics: Machine engrave characters and other graphic devices into panel surface indicated to produce precisely formed copy, incised to uniform depth.
   1. Engraved Opaque Acrylic Sheet: Fill engraved graphics with manufacturer's standard enamel.

C. Subsurface-Applied Graphics: Apply graphics to back face of clear face-sheet material to produce precisely formed image. Image shall be free of rough edges.

D. Shop- and Subsurface-Applied Vinyl: Align vinyl film in final position and apply to surface. Firmly press film from the middle outward to obtain good bond without blisters or fishmouths.

E. Brackets: Fabricate brackets, fittings, and hardware for bracket-mounted signs to suit sign construction and mounting conditions indicated. Modify manufacturer's standard brackets as required.

   1. Aluminum Brackets: Factory finish brackets with baked-enamel or powder-coat finish to match sign-background unless otherwise indicated.
   2. Stainless-Steel Brackets: Factory finish brackets with No. 4 finish unless otherwise indicated.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.

   1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
   2. Install signs (to be mounted below 8’-0”) so they do not protrude or obstruct according to the accessibility standard.
   3. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
   4. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

B. Mounting Methods:

   1. Concealed Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.

      a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place sign in position and push until flush to surface, embedding studs in holes. Temporarily support sign in position until adhesive fully sets.

b. Thin or Hollow Surfaces: Place sign in position and flush to surface, install washers and nuts on studs projecting through opposite side of surface, and tighten.

2. Projecting Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.

   a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place spacers on studs, place sign in position, and push until spacers are pinched between sign and substrate, embedding the stud ends in holes. Temporarily support sign in position until adhesive fully sets.
   b. Thin or Hollow Surfaces: Place spacers on studs, place sign in position with spacers pinched between sign and substrate, and install washers and nuts on stud ends projecting through opposite side of surface, and tighten.

3. Through Fasteners: Drill holes in substrate using predrilled holes in sign as template. Countersink holes in sign if required. Place sign in position and flush to surface. Install through fasteners and tighten.
4. Brackets: Remove loose debris from substrate surface and install backbar or bracket supports in position so that signage is correctly located and aligned.
5. Adhesive: Clean bond-breaking materials from substrate surface and remove loose debris. Apply linear beads or spots of adhesive symmetrically to back of sign and of suitable quantity to support weight of sign after cure without slippage. Keep adhesive away from edges to prevent adhesive extrusion as sign is applied and to prevent visibility of cured adhesive at sign edges. Place sign in position, and push to engage adhesive. Temporarily support sign in position until adhesive fully sets.
6. Two-Face Tape (interior signs only): Clean bond-breaking materials from substrate surface and remove loose debris. Apply tape strips symmetrically to back of sign and of suitable quantity to support weight of sign without slippage. Keep strips away from edges to prevent visibility at sign edges. Place sign in position, and push to engage tape adhesive.

C. Remove temporary protective coverings and strippable films as signs are installed.

END OF SECTION 10 1400

SECTION 23 0900 – AUTOMATIC TEMPERATURE CONTROL
(Revised 2.1.4; 2.1.5 and 2.5.A per Addendum #1)

PART 1 - GENERAL

1.1 RELATED SECTIONS

A. The Drawings and the General Provisions of the Contract, including General, Supplementary, and Special Conditions, and Division 1 - General Requirements, apply to work specified in this section.

B. Section 23 0901 ATC Sequence of Operations

C. Project Document Review

1. The BMS contractor (BMSC) shall familiarize himself with the terms of the documents and any sections hereinafter referred to that affect this work. If the BMSC believes there are conflicts or missing information in the project documents, the BMSC shall promptly request clarification and instruction from the project engineer.

1.2 BUILDING MANAGEMENT SYSTEM DESCRIPTION

1. A central station Building Management System- BMS is not included in this project.

B. Project Drawings and Specifications

1. The work of the single BMSC shall be as defined individually and collectively in all Sections of this Division's specifications together with the associated project drawings and the associated interfacing work as referenced in the related documents.
2. The project BMS diagrams and drawings are diagrammatic only and shall not be utilized for installation configuration or mounting.

C. Conflict of Codes

1. If any codes conflict, the most restrictive shall apply. Nothing in this specification or related documentation shall be construed to permit work not conforming to applicable codes.

D. BMSC Responsibility

1. The BMSC shall be responsible for mounting and wiring of field installed controls provided with the equipment package.
2. For equipment not provided with DDC controllers, the BMSC shall be responsible for supplying, mounting and wiring of field installed controls.

1.3 SPECIFICATION NOMENCLATURE & DEFINITIONS

A. Singular usage

1. The use of words in the singular in this Division documents shall not be considered as limiting when other indications in these documents denote that more than one such item is being referenced.
2. Acronyms may be used in describing the work of this Division, any additional unique acronyms shall be declared throughout the specifications.

B. Interpretation Aid

1. Headings, paragraph numbers, titles, shading, bolding, underscores, clouds, and other symbolic interpretation aids included in this Division documents are for general information only and are to assist in the reading and interpretation of these Documents.
2. Numerical figures are positive unless otherwise indicated as negative or minus.

C. Definitions

1. Actuator
   a. A control device that opens or closes valve or damper in response to control signal.

D. Acronyms

1. Acronyms may be used in describing the work of this Division, any additional acronyms shall be declared throughout the specifications:
2. Organization and project entities abbreviations
   a. ATC - Automatic Temperature Controls
   b. ASHRAE - American Society of Heating, Refrigeration & AC Engineers
   c. BMSC - Building Management System Contractor
   d. BMS - Building Management System
   e. DDC - Direct Digital Controller, synonymous with Controller
   f. MC - Mechanical Contractor
   g. UM - Unit Manufacturer, Equipment
3. Direct Digital Controls abbreviations
   a. AI / AO - Analog Input / Analog Output
   b. CI / CO - Configurable Input / Configurable Output
   c. DI / DO - Digital Input / Digital Output
   d. DDC - Direct Digital Control
   e. I/O - Input / Output point
   f. NO / NC - Normally Open / Normally Closed
4. Field Devices Abbreviations
   a. 2W / 3W - 2 Way or 3 way
   b. CS - Current Switch (Binary)
   c. CV - Flow Coefficient of a Control Valve
   d. ES - End Switch
   e. LLS - Low Limit Temperature Switch

f. M - Actuator, Electronic
g. MS - Motor Starter
h. PDS - Pressure Differential Switch (Binary)
i. R - Control Pilot Relay
j. SD - Smoke Detector or Smoke Damper
k. TS - Temperature Sensor (Analog)
l. SCV - Self-Contained Control Valve
m. V - Valve, Temperature Control

5. Advanced-Application Controllers
   a. Used to control equipment such as Chillers and RTU's preprogrammed and installed into the AAC by the manufacturer.
6. Algorithm: synonymous with programming
   a. A logical procedure for solving a recurrent mathematical problem; a prescribed set of well-defined rules or processes for the solution of a problem in a finite number of steps.
7. Analog
   a. A continuously variable system or value not having discrete levels.
8. Application-Specific Controller
   a. Microprocessor-based DDC controllers, which through hardware or firmware design are dedicated to control a specific piece of equipment. They are not fully user programmable but are customized for operation within the confines of the equipment they are designed to serve.
9. BACnet/IP
   a. A BACnet protocol which defines and allows using a reserved UDP socket to transmit BACnet messages over IP networks.
10. Building Management System (BMS): synonymous with System
    a. The total integrated system of fully operational and functional elements, including equipment, hardware, and wiring, to be provided by this Division's contractor
11. Building Management System Contractor (BMSC): synonymous with Contractor
    a. The single contractor to provide the work of this Section.
    b. A two-state condition, i.e. "ON" or "OFF"
12. Contract Terms used in this specification section shall mean
    a. Commission: To provide technical device certification of design intent, including, calibration, initial field testing and functionality.
    b. Furnish: To supply at the contractor's cost to a third-party contractor for installation.
    c. Install / Installation: To receive and mount the device.
    d. Provide: To "Furnish", "Install", "Wire", and "Commission.
    e. Wire: To "Provide" this section control electric conductors and field device point terminations.
13. Control Loop
    a. A control algorithm, with an analog input and an output.
14. Custom Application Controller
    a. Used to control equipment and systems such as an AHU, cooling tower, and central plant applications by customized programming prepared and installed into the CAC by the BMSC to provide the performance specified in Part 4 of this section.
15. Deadband
    a. An analog range over which no change of state occurs.

16. Direct Digital Controller, synonymous with Controller (DDC)
    a. A generic term for any standalone, microprocessor-based, digital controller residing on a network, used for local or global control.
    b. Three types of controllers are indicated
        1) Supervisory Network Controller (SNC)
        2) Building Controller (B-BC)
        3) Advanced Application Specific Controller (AAC)
        4) Application-Specific Controller (ASC).
17. Floating
    a. A timed digital signal typically used to mimic an Analog value.
18. I/O: Input/Output
    a. A physical device or virtual node in which the Building Management System receives or transmits information through.
19. I/O Point Types: An analog or binary instance with an addressable database value.
    a. Analog Input (AI)
        1) Analog signals are continuous and represent control influences such as flow, level, moisture, pressure, and temperature.
    b. Analog Output (AO)
        1) A continuous variable which provides control through a 4-20mA, 0-10VDC or other industry standard range. Typically used for control of Variable Speed Drives, control valves, or control dampers.
    c. Binary Input (BI): Synonymous with Digital Input (DI) or Contact Input (CI)
        1) Electronic signals are converted to a binary value; generally utilized for device status.
    d. Binary Output (BO), synonymous with Digital output (DO) or Contact Output (CO)
        1) DDC controller signals are converted to a binary value; generally utilized for device commands.
20. LAN
    a. A local internal communication bus structure that exchanges information between networked computers or devices.
21. Low Voltage
    a. As defined in NFPA 70 for circuits and equipment operating at less than 50 V or for remote-control, signaling power-limited circuits.
22. Sensor
    a. A control device that provides a monitored input response to an input (either analog or binary for use by the BMS)
    b. For the purposes of installation Sensor shall be synonymous with Thermostat, Humidistat, De-humidistat

1.4 SUBMITTALS

A. Submittal Approval

1. Submittals shall be approved before any equipment is installed.

B. Shop Drawings

1. Product Data:

a. Any deviations from these specifications or the work indicated on the drawings shall be clearly identified in the Submittals.
b. Each package shall be complete and shall only reference itself and previously submitted packages.
c. Equipment and systems requiring approval of local authorities must comply with such regulations and be approved.
d. When manufacturer's cut sheets apply to a product series rather than a specific product, clearly indicate applicable data by highlighting or by other means.
e. General catalogs shall not be accepted as cut sheets to fulfill submittal requirements.
f. Filing shall be at the expense of the BMSC where filing is necessary.
g. Provide a copy of all related correspondence and permits to the Owner.
h. Prepare an index of all submittals and shop drawings for the installation. Index shall include a shop drawing identification number, Contract Documents reference and item description.
i. The BMSC shall correct any errors or omissions noted in the first review.
j. Clearly reference covered specification and drawing on each submittal.

2. At a minimum, submit the following:
   a. Sequence of Operation:
      1) Complete description of control system operation including sequences of operation. Include and reference schematic diagram of controlled system.
   b. Bill of Materials
      1) Complete bill of material indicating quantity, manufacturer, model number, and relevant technical data of equipment used.
      2) Manufacturer's description and technical data such as product specifications for items listed below and for relevant items provided or furnished under this contract not listed below:
      3) When manufacturer's product datasheets apply to a product series rather than a specific product model, clearly indicate and highlight only applicable information.
      4) Each submitted piece of product literature shall clearly cross reference specification and drawings that submittal is to cover.
   c. Product data sheets
      1) Data sheets or marked catalog pages including part number, photo and description for all products including software.
      2) Manufacturer's description and technical data, such as product specification sheets, installation and maintenance instructions for items listed below and for relevant items not listed below:
      3) Construction details, material descriptions, dimensions of individual components and profiles, and finishes.
      4) Operating characteristics, electrical characteristics, and accessories indicating process operating range, accuracy over range, control signal over range, default control signal with loss of power, calibration data specific to each unique application, electrical power requirements, and limitations of ambient operating environment, including temperature and humidity.

5) Product description with complete technical data, performance curves, and product specification sheets.
6) Installation, operation, and maintenance instructions including factors effecting performance.

d. Control Damper Schedule
e. Control Valve Schedules

C. BMS Hardware Submittal

1. Shop Drawings shall include and consist of a complete list of equipment and materials, including manufacturers' catalog data sheets and installation instructions. Submit in printed and electronic format.
2. Shop Drawings shall include the following requirements:
   a. Prepare an index sheet of all submittals and shop drawings for the installation. Index shall include a shop drawing identification number, Contract Documents reference and item description.
   b. Shop drawings shall also contain complete wiring and schematic diagrams, sequences of operation, control system bus layout and any other details required to demonstrate that the system has been coordinated and shall properly function as a system.
   c. Shop drawings shall Specific Terminal identification for all control wiring shall be shown on the shop drawings (i.e. point to point diagram).
3. Product Data:
   a. Manufacturer's data sheets on each product to be used
   b. Data shall contain manufacturer's data on all hardware and software products required by the specification including:
      1) Preparation instructions and recommendations.
      2) Storage and handling requirements and recommendations.
      3) Installation methods.
4. Automatic Control Valve Schedules:
   a. Indicate control valve size
   b. Indicate flow pattern
   c. Indicate control valve connections and ratings
   d. Indicate control flow rate
   e. Indicate control valve pressure drop
   f. Indicate control valve CV rating
   g. Indicate control body material
   h. Indicate control valve temperature and pressure rating
   i. Indicate control valve location
   j. Indicate control valve tagging
   k. Indicate Leakage flow at maximum system pressure differential.
   l. Indicate Torque required at worst case condition for sizing actuator.
   m. Indicate actuator selection indicating torque provided.
   n. Indicate Maximum close-off pressure.
   o. Indicate actuator signal to control valve (on, close or modulate).
   p. Indicate actuator position on loss of power.
   q. Indicate actuator position on loss of control signal.
   r. Indicate control valve actuator power requirements

D. As Built Drawings

1. All drawings shall be reviewed after the final system checkout and updated or corrected to provide 'as-built' drawings to show exact installation.
2. All shop drawings shall be acknowledged in writing by the A/E before installation is started and again after the final checkout of the system.
3. The BMS system shall not be considered complete until the 'as-built' drawings have received their final approval.

E. Operation and Maintenance (O&M) Manual Submittal

1. Upon completion of the work of this Section, Operation and Maintenance Manuals shall be provided to the Owner's Representative. The Operation and Maintenance Manual electronic media shall be self-contained, and include all necessary software required to access the product data sheets. A logically organized table of contents shall provide dynamic links to view and print all product data sheets. Viewer software shall provide the ability to display, zoom, and search all documents. This shall include the following categories:
   a. Names, address and 24-hour telephone numbers of Contractors installing equipment, and the control systems and service representative of each.
2. System Maintenance Requirements:
   a. Maintenance instructions and lists of spare parts for each type of control device.
   b. Interconnection wiring diagrams with identified system components and devices.
   c. Inspection period, cleaning methods, cleaning materials recommended, and calibration tolerances.
3. Testing and Commissioning Reports and Checklists.

1.5 QUALITY ASSURANCE

A. Single Source Responsibility of System performance

1. The BMSC shall be responsible for the complete installation and proper operation of the control system.

1.6 WARRANTY - MATERIAL AND LABOR

A. Warranty Period

1. Warrant labor and materials for specified BMS free from defects for a period of 12 months after final acceptance. BMS failures during warranty period shall be adjusted, repaired, or replaced at no additional cost or reduction in service to the Owner, and shall cover all costs for parts, labor, associated travel, and expenses Respond during Owner’s business hours within 24 hours of Owner’s warranty service request.
2. Date of acceptance shall begin warranty period Work shall have a single warranty date, even if Owner receives beneficial use due to early system start-up. If specified work is split into multiple contracts or a multi-phase contract, each contract or phase shall have a separate warranty start date and period.
3. Date of acceptance shall begin warranty period.

4. Exception: Reused equipment, devices and controllers identified in the BMS submissions as existing shall not be required to be warranted.

PART 2 - PRODUCTS

2.1 THERMOSTATS

1. Low-Voltage, On-Off Thermostats: 24-V, bimetal-operated, with adjustable or fixed anticipation heater, concealed set-point adjustment, 55 to 85 deg F set-point range, and 2°F maximum differential.
2. Line-Voltage, On-Off Thermostats: Bimetal-actuated, open contact or bellows-actuated, enclosed, snap-switch or equivalent solid-state type, with heat anticipator; listed for electrical rating; with concealed set-point adjustment, 55 to 85 deg F set-point range, and 2 ° F maximum differential.
3. Aquastat & Remote-Bulb Thermostats: On-off or modulating type, liquid filled to compensate for changes in ambient temperature; with copper capillary and bulb, unless otherwise indicated'
   a. Bulbs in water lines with separate wells of same material as bulb.
   b. Strap on controller assembly with bulb in contact with sensed piping
   c. Bulbs in air ducts with flanges and shields.
   d. Scale settings and differential settings are clearly visible and adjustable from front of instrument.
   e. On-Off Thermostat: With precision snap switches and with electrical ratings required by application.
   f. Modulating Thermostats: Construct so complete potentiometer coil and wiper assembly is removable for inspection or replacement without disturbing calibration of instrument.
4. 1 Stage Heating: Honeywell TH1100DV1000 is the basis of design. Subject to compliance with requirements of this specification other manufacturer's that may provide products are as follows:
   a. White Rodgers
   b. Lux
5. 2 Stage Heating/Cooling: Honeywell TH5220D1003 is the basis of design. Subject to compliance with requirements of this specification other manufacturer's that may provide products are as follows:
   a. White Rodgers
   b. Lux

2.2 CONTROL OUTPUTS

A. Control Valve Actuators

1. Actuator sizing:
   a. The control valve actuator shall be sized for sufficient force to operate the valve under all conditions and sized for torque required to guarantee tight close off of valves, as specified, against system differential pressure encountered.
   b. Two-way control valve actuators shall provide a close off rating exceeding the maximum pressure difference between the valve outlet and inlet.
2. Power Requirements:

a. Actuators shall be electronic, 24 VAC or 120 VAC, class 2 as directed by the application, and as selected by the contractor.
b. Actuators shall have internal electronic overload protection or digital rotation sensing circuitry. End switches to deactivate at the end of rotation or magnetic clutches are not acceptable.
c. Power consumption shall not exceed 10 VA for AC.

3. Modulating Control Signal:
   a. Spring return actuators shall be capable of CW or CCW mounting orientation.
   b. Actuators shall be controlled from a 2 to 10 VDC or 4 to 20 mA.
   c. Actuators for VAV applications shall be "drive open; drive closed" type.
   d. Noise Generation:
   e. Spring return actuators shall not produce more than 62 dbA when powered or positioning.
   f. Non-spring return actuators shall have a maximum noise rating of 45 dbA with power on or in the running or driving mode.
4. Fail Safe Operation:
   a. Spring return actuators shall be selected for modulating or two position, with a Fail-Safe position, as specified.
   b. Spring return actuators shall upon a loss of control signal, fail to the minimum control signal.
   c. Non-spring return actuator shall maintain the last position upon loss of power.
5. Coupling:
   a. Control valve actuators shall be of a Direct coupled type designed for minimum 60,000 full stroke cycles at rated torque.
6. Operation Time
   a. The run time for full stroke operation shall not exceed 120 seconds.
   b. Spring return to the failsafe position shall take no longer than 10 seconds closed.
   c. Non-spring return actuators greater than 60 in-lb. of torque shall have a local external, manual gear release.
7. Construction:
   a. Control valve actuator casings shall be made of die cast metal.
8. Position Indication:
   a. Actuators on valves larger than 2 inch shall have a visual position indication.
   b. When required by the control sequence, two sets of DPDT switches with fully adjustable setpoints shall be provided.
9. Environment Rating:
   a. Actuator enclosures shall be rated for the mounting environment
   b. Actuators shall have an operating range of minus 22 to 122 degrees F.
   c. Actuators exposed to low temperatures shall have a crankcase heater.

2.3 CONTROL VALVES

A. General

1. Control valves shall be factory fabricated, of type, body material, and pressure class based on maximum pressure and temperature rating of piping system, unless otherwise indicated.
2. The control valve nominal body rating shall be not less than 125 PSI.
3. Control valve body pressure rating and connection type (sweat, screwed, or flanged) shall conform to the pipe schedule in this specification.
4. The control valves shall be sized by the contractor to produce the required flow capacity at a pressure loss not exceeding the allowable pressure drop.
5. The control valve body and packing selected shall be sized to withstand the system static head plus the pump head, and the temperatures of the control medium.
6. All control valves shall be suitable for the system flow conditions and close against the differential pressures involved.
7. Connections:
8. Control valve sizes up to, including 2 inch shall be "screwed" configuration
9. Control valve sizes 2 1/2 inch and larger shall be "flanged" configuration.
10. All control valves shall have a close-off pressure rating higher than the pump differential pressure rating. Refer to the pump schedule on the drawings.
11. All control valves shall be easily accessible for servicing. Do not locate in the unit cabinet unless a piping cabinet has been provided for that purpose.
12. All heating valves, except for VAV boxes shall be spring return and shall fail open. Valves at VAV boxes shall be floating and fail at last controlled position. All chilled water valves shall be spring return and shall fail closed.
13. All control valve actuators shall be 24 volt unless the application dictates another voltage. The HC shall provide transformers and low voltage control wiring. Coordinate location of the transformers with the EC to obtain line voltage power.
14. Control Valves: Shall be sized for proper flow control with equal percentage valve plugs. The maximum pressure drop for water applications shall be 5 PSI. The maximum pressure drop for steam applications shall be 7 PSI.

D. Characterized Control Valves

1. NPS 3 and Smaller: Nickel-plated forged brass body rated at no less than 400 psi, stainless steel ball and blowout proof stem, female NPT end fittings, with a dual EPDM O-ring packing design, fiberglass reinforced Teflon seats, and a TEFZEL flow characterizing disc.
2. Sizing:
   a. Two-Position: Line size or size using a pressure differential of 1 psi.
   b. Two-Way Modulating: 3 psig or twice the load pressure drop, whichever is more.
   c. Three-Way Modulating: Twice the load pressure drop, but not more than 3 psig.
3. Close-Off Pressure Rating: 100 PSI.
4. The actuator shall be the same manufacturer as the valve, integrally mounted to the valve at the factory with a single screw on a four-way DIN mounting-base.

2.4 CONTROL POWER TRANSFORMERS & POWER SUPPLIES

A. Control power transformers shall be UL listed, Class 2 current limiting type, or shall be provided with over current protection with primary and secondary circuits for Class 2 service.

B. Unit power output shall match the required output current and voltage requirements. Current output shall allow for a 50 percent safety factor. Output ripple shall be 3.0 mV maximum Peak to Peak. Regulation shall be 0 to 10 percent line and load combined, with 50 microsecond response time for 50 percent load changes. Unit shall have built in over voltage protection.

C. Unit shall operate between 32 to 120 degrees F.

D. Unit shall be UL recognized.

2.5 ZONE PUMP CONTROLLER

A. Taco is the basis of design. Subject to compliance with requirements of this specification other manufacturer's that may provide products are as follows:
   1. Argo
   2. Grundfos
   3. It will be acceptable to provide a field fabricated and installed zone control panel. The Panel layout, wiring diagram, BOM and sequence of operation must be provided as a shop drawing submittal.

2.6 LOCAL CONTROL ENCLOSURES AND PANELS

A. All control cabinets shall be of steel construction and rated for the environment in which they are located with (hinged door) key lock latch and removable sub panels. A single key shall be common to all field panels and sub panels.

B. Interconnections between internal and face mounted devices shall be prewired with color coded stranded conductors neatly installed in plastic troughs and/or tie wrapped. Terminals for field connections shall be UL listed for 600-volt service, individually identified per control/ interlock drawings, with adequate clearance for field wiring. Control terminations for field connection shall be individually identified per control drawings.

C. Provide ON/OFF power switch with over current protection for control power sources to each local panel.

D. A convenience 120 VAC duplex receptacle shall be provided in each enclosure, fused on/off power switch, and required transformers.

E. All control panels shall be UL inspected and listed as an assembly and carries a UL 508 label listing compliance. Control panels shall be fully enclosed, with perforated sub-panel, hinged door, and slotted flush latch.

F. Low and line voltage wiring shall be segregated. All provided terminal strips and wiring shall be UL listed 300-volt service and provide adequate clearance for field wiring.

G. All wiring shall be neatly installed in plastic trays or tie wrapped.

PART 3 - EXECUTION

3.1 OVERVIEW

A. Install system and materials in accordance with manufacturer's instructions, and as detailed on the project drawing set.

B. Line and low voltage electrical connections to control equipment shown specified or shown on the control diagrams shall be provided and installed by the BMSC in accordance with these specifications.

C. All control devices mounted on the face of control panels shall be clearly identified as to function and system served with permanently engraved phenolic labels.

D. All output devices shall be installed per the manufacturer’s recommendation.

E. The contractor shall coordinate the installation of temperature sensor thermos-wells and piping accessories.

3.2 CODE COMPLIANCE

A. NEC compliance:

1. All wiring shall be installed in accordance with all applicable electrical codes and shall comply with equipment manufacturer's recommendations. Should any discrepancy be found between wiring specifications in this section and Electrical sections, the stricter wiring requirements shall prevail.

3.3 ELECTRICAL WIRING AND CONNECTION INSTALLATION

A. All electrical control wiring to the control panels shall be the responsibility of the BMSC.

B. All wiring shall be in accordance with the Project Electrical Specifications, the National Electrical Code, and any applicable local codes.

C. Control wiring shall be of adequate length for the installation. Excess wire shall not be looped or coiled in the controller cabinet.

D. Use approved optical isolation and lightning protection when penetrating building envelope.

E. Power Wiring

1. 120 VAC circuits used for the BMS shall be taken from panel boards and circuit breakers.

2. BMS power circuits shall be dedicated to the BMS devices and shall not be used for any other purposes.
3. All NEC Class 1 (line voltage) wiring shall be UL Listed and installed approved conduit according to NEC requirements.
4. Power wiring must meet NEC / Local standards; minimum 12 gauge, stranded, THHN
5. Power and Class One wiring may be run in the same conduit.
6. Where different wiring classes terminate within the same enclosure, maintain clearances, and install barriers per the National Electric Code.

F. BMS Raceway

1. All wiring shall be installed in conduit or raceway except as noted elsewhere in this specification.
2. All conduits and raceways shall be installed level, plumb, at right angles to the building lines and shall follow the contours of the surface to which they are attached.
3. Include one pull string in each conduit 3/4 in. or larger.
4. All wiring in mechanical, electrical, or service rooms, or where subject to mechanical damage shall be installed in conduit.
5. All Conduit shall be concealed, except within mechanical, electrical, or service rooms.
6. Conduit in finished areas shall be concealed in ceiling cavity spaces, plenums, furred spaces, and wall construction.
7. Exposed conduit shall run parallel to or at right angles to the building structure.
8. Install conduit to maintain a minimum clearance of 6 inches from high temperature equipment (e.g., steam pipes or flues).
9. Class 2 and 3 wiring and communications wiring may be run in the same conduit.
10. Support:
    a. Secure conduit with conduit clamps fastened to the structure and spaced according to code requirements.
    b. Conduit and pull boxes shall not be hung on flexible duct strap or tie rods.
    c. Conduits shall not be run on or attached to ductwork
11. Couplings and Terminations:
    a. Conduit sections shall be joined with couplings (according to code).
    b. Conduit section terminations shall be made with fittings at boxes, as needed.
    c. Conduit section terminations not ending in boxes shall have bushings installed.
12. Class Separation:
    a. Where different wiring classes terminate within the same enclosure, maintain clearances, and install barriers per the National Electric Code.
13. Exterior & High Moisture Prone Locations:
    a. Watertight compression fittings shall be used for exterior locations and interior locations subject to moisture.
    b. Conduit seal off fittings shall be utilized where exterior conduits enter the building or between areas of high temperature/moisture differential.
14. Flexible Metallic Conduit:
    a. Flexible metallic conduit shall be used for connections to motors, actuators, controllers, and sensors mounted on vibration producing equipment.

b. Flexible metal conduits shall not exceed 3 feet in length and shall be supported at each end.
c. Flexible Metal Conduit may be used within partition walls.
d. Flexible Metal Conduit shall be UL listed
e. Flexible metal conduit minimum size is ½ inch.
f. Liquid tight flexible conduit shall be use in exterior locations and interior locations subject to moisture.

15. Surface Raceway
    a. Where it is not possible to conceal raceways in finished locations, surface raceway may be used as approved by the Architect.
    b. Metallic surface raceway may be used in finished areas on masonry walls.
    c. All surface raceway in finished areas must be color matched to the existing finish.
16. Conduit and Raceway Sizing
    a. The sizing, type and provision of conduit and raceways shall be the design responsibility of the BMSC.
    b. If complications arise, however, due to the incorrect selection of cable, cable trays, raceways and/or conduit by the BMS Contractor, the BMS Contractor shall be responsible for all costs incurred in replacing the selected components.
17. Junction Boxes
    a. Junction boxes shall be provided at all cable splices, equipment termination, and transitions from EMT to flexible conduit.
    b. Interior dry location J-boxes shall be galvanized pressed steel, nominal four-inch square with blank cover.
    c. Exterior and damp location JH-boxes shall be cast alloy FS boxes with threaded hubs and gasketed covers. ¨

G. BMS Control Wiring

1. Do not install communication wiring in conduit or raceway containing Class 1 or other Class 2 wiring.
2. All wiring shall comply with the requirements of applicable portions of all local and national electric codes, unless specified otherwise in this section.
3. Where the space above the ceiling is a supply or return air plenum, the wiring shall be plenum rated.
4. All control and interlock wiring shall comply with national and local electrical codes.
5. Where the wires leave the conduit system, they shall be protected by a plastic insert.
6. Class 2 Wiring
    a. All low voltage wiring shall meet NEC Class 2 requirements. (Low voltage power circuits shall be sub fused when required to meet Class 2 current limit.)
    b. Class 2 signal wiring and 24 VAC power can be run in the same conduit.
    c. Do not install Class 2 wiring in conduit containing Class 1 wiring or tubing.
    d. Boxes and panels containing high voltage wiring and equipment may not be used for low voltage wiring except for the purpose of interfacing the two (e.g., relays and
7. Installation:

a. Wiring is to be run parallel along a surface or perpendicular to it and neatly tied at 10 feet intervals.

8. Cable Support
   a. Plenum rated cable shall be supported from or anchored to structural members. Cables shall not be supported by or anchored to ductwork, electrical conduits, piping, or ceiling suspension systems.
9. Wiring Device Terminations
   a. All wire-to-device connections shall be made at a terminal block or wire nut.
   b. All wire-to-wire connections shall be at a terminal strip or wire nut.
   c. Exposed terminations shall not be acceptable. Terminations shall be contained within either the device or local junction box.
   d. All wiring within enclosures shall be neatly bundled and anchored to permit access and prevent restriction to devices and terminals.
10. No Splices:
   a. All wiring shall be installed as continuous lengths, with no splices permitted between termination points
11. Grounding:
   a. Provide for complete grounding of all applicable panels, and equipment so as to ensure system integrity of operation. Ground cabling and conduit at the panel terminations. Avoid grounding loops.

H. Wall and Floor Penetrations

1. Provide fire stopping for all penetrations used by conduits and raceways.
2. All openings in fire proofed or fire stopped components shall be closed by using approved fire resistive sealant.
3. All wiring passing through penetrations, including walls shall be in conduit or enclosed raceway.
4. Penetrations of floor slabs shall be by core drilling. All penetrations shall be plumb, true, and square.

I. Enclosures

1. The BMS panels and cabinets shall be located as indicated at an elevation of not less than 2 feet from the bottom edge of the panel to the finished floor. Each cabinet shall be anchored per the manufacturer's recommendations.
2. For all I/O requiring field interface devices, these devices shall be mounted in a Field Interface Panel (FIP). The BMSC shall provide an enclosure, which protects the device(s) from dust, moisture, conceals integral wiring and moving parts.
3. FIPs shall contain power supplies for sensors, interface relays and contactors, and safety circuits.
4. All wiring to and from the FIP shall be to screw type terminals. Analog or communications wiring may use the FIP as a raceway without terminating. The use of wire nuts within the FIP is prohibited.
5. All outside mounted enclosures shall meet the NEMA-4 rating.
6. The wiring within all enclosures shall be run in plastic track. Wiring within controllers shall be wrapped and secured.

J. Damper Actuators

1. Shall be firmly mounted to give positive movement and linkage shall be adjusted to give smooth continuous movement throughout 100 percent of the stroke.
2. Actuators: The actuator shall modulate in a smooth fashion through the entire stroke. When any pneumatic actuator is sequenced with another device, pilot positioners shall be installed to allow for proper sequencing.
3. Opposed blade dampers shall be installed for modulating control of airflow.
4. Parallel blade dampers shall be installed for two position applications.
5. Damper actuators shall be installed on the outside of duct in warm areas, not in locations exposed to outdoor temperatures.

K. Relay Outputs

1. Transient suppression shall be provided across all coils. Suppression devices shall limit transients to 150 percent of the rated coil voltage.

L. Outside Air Sensors

1. Outdoor air sensors shall be mounted on the northerly facing directly in the outside air. Install these sensors such that the effects of heat radiated from the building or sunlight is minimized.
2. Sensors shall be installed with a rain proof, perforated cover.

M. Duct Temperature Sensors

1. Duct mount sensors shall mount in an electrical box through a hole in the duct and be positioned so as to be easily accessible for repair or replacement.
2. The sensors shall be insertion type and constructed as a complete assembly including lock nut and mounting plate.
3. For ductwork greater in any dimension than 48 inches or where air temperature stratification exists such as a mixed air plenum, utilize an averaging sensor.
4. The sensor shall be mounted to suitable supports using factory approved element holders.

N. Space Sensors

1. Space Sensor locations indicated on the plan are diagrammatic. Verify location of thermostats, humidistats, and other exposed control sensors with drawings and room details before installation. Provide a plan showing location and approved by the Owner and Architect. Coordinate with other wall mounted equipment.
2. Install top of devices 48 inches above the finished floor or per ADA requirements.
3. Field-coordinate locations with all cabinetry, shelving, furniture, etc. All mounted sensors shall be installed such that they conform to all ADA requirements, including, but not limited to:
    a. Sensors located in circulation paths (i.e. corridors, halls, etc.) shall be installed such that element does not encroach more than 4 inches into circulation path.
    b. Sensors shall be installed such that there is an unobstructed forward reach. Sensor may be installed with an obstructed high forward reach when obstruction depth is less than 20 inches AND there is a clear floor space extending beneath the element for the entire depth of the obstruction.

4. Space humidity or temperature sensors shall be mounted away from machinery generating heat, direct light, and diffuser air streams.

O. Low Temperature Limit Switches

1. Provide a freezestat for all units with a hot water coil and a ducted outside air connection Alarm activation shall de-energize the supply fan, close the outside air damper, and open the heating valve.
2. Install the freezestat upstream of the first coil for equipment with coil design EAT above 55°
3. Install the freezestat downstream of heating coil for equipment with coil design EAT below 40°F
4. Mount element horizontally across duct in a serpentine pattern ensuring each square foot of coil is protected by 1 foot of sensor.
5. For large duct areas where the sensing element does not provide full coverage of the air stream, provide additional switches as required to provide full protection of the air stream.

P. Air Differential Pressure Status Switches

1. Install with static pressure tips, tubing, fittings, and air filter.

3.4 IDENTIFICATION

A. Cables: Identify all control wires with labeling tape or sleeves using either words, letters, or numbers that can be exactly cross referenced with BMS as-built drawings.

B. Enclosures: All field enclosures, other than controllers, shall be identified with an engraved nameplate. The lettering shall be in white against a black or blue background.

C. Field Devices: All I/O field devices that are not mounted within FIPs shall be identified with name plates.

3.5 SYSTEM TESTING

A. Calibrating and Adjusting

1. Initial Setpoints: Adjust initial temperature and humidity set points.
2. Temperatures: Calibrate temperature switches to make or break contacts.
3. Dampers and Valves: Stroke and adjust control valves and dampers without positioners, following the manufacturer's recommended procedure, so that valve or damper is 100 percent open and closed. Stroke and adjust control valves and dampers with positioners, following manufacturer's recommended procedure, so that valve and damper is 0, 50, and 100 percent closed.

B. Demonstration

1. At the completion of the Acceptance Testing, this BMS contractor shall demonstrate the sequence of operations for each system to the Owner or his representative.

3.6 TRAINING

A. Onsite System Training:

1. The Contractor shall provide training for system orientation, product maintenance and troubleshooting, programming.

3.7 PROJECT SPECIFIC REQUIREMENTS

A. Control Valves

1. Hot water control valves shall fail Normally Open to the coil.
2. Provide control valve types as follows:
   a. Baseboard — Zone Valves
   b. Cabinet Heaters — 2-way Characterized Control Valves
   c. Unit Heaters — 3-way Characterized Control Valves

B. Control Wiring

2. All low voltage wiring for the BMS work shall be plenum rated.
3. Run control wiring in metal surface raceway in the following locations:
   a. At room sensors where wiring cannot be concealed.
4. Run control wiring in conduit in the following locations:
   a. Mechanical rooms.
   b. Storage Rooms.
5. Run control wiring using plenum rated cable in the following locations:
   a. Concealed above ceilings.
   b. Concealed within walls.

END OF SECTION 23 0900

SECTION 23 0901 – AUTOMATIC TEMPERATURE CONTROLS SEQUENCE OF OPERATIONS
(Revised 1.15. A; 1.16.A; 1.18.A.1.a; 2.3.A.4; 2.4.A.4; 2.7.A.4 and 2.8.A.4 per Addendum #1)

PART 1- SEQUENCE OF OPERATIONS TEMPLATES

1.1 UNIT CONTROL INTERFACE TEMPLATE DDC/STANDALONE: The equipment is provided with pre-programmed DDC controls and there is no requirement for BMS integration.

B. ELECTRO MECHANICAL: The equipment is provided with no controls, provide electro-mechanical controls to perform the operating sequences. Refer to wiring diagrams on drawings.

1. At the contractor's discretion, it will be acceptable to provide standalone DDC controllers without BMS integration to provide the specified control functions and intent.

1.2 COMMON CONDITIONS CONTROL SEQUENCE TEMPLATE

A. The following common conditions shall be provided at the local control.

1. Occupied Mode:
   a. Cooling Setpoint: 76°F (adj.)
   b. Heating Setpoint: 72°F (adj.)
   c. Humidify Setpoint: 40% rh (adj.)
   d. Dehumidify Setpoint: 60% rh (adj.)
2. Unoccupied Mode:
   a. Cooling Setpoint: 85°F (adj.)
   b. Heating Setpoint: 60°F (adj.)
   c. Humidify Setpoint: 40% rh (adj.)
   d. Dehumidify Setpoint: 60% rh (adj.)

1.3 SUPPLY FAN CONTROL - CAV SEQUENCE TEMPLATE

A. The unit controller shall enable the supply fan to run continuously at design CFM, unless shutdown on faults, safeties, duct smoke detectors and low limit freezestats.

1. On units without supply airflow measuring capability, supply fan VFD speed setpoints shall be established by the TAB contractor for the respective design CFM flow rate.

1.4 EXHAUST FAN CONTROL – CAV SEQUENCE TEMPLATE

A. The exhaust fan is enabled when the supply fan is running, and the outside air damper is open. The exhaust fan remains enabled until either of the following occur;

1. The supply fan is not running.
2. The outside air damper is not open.

B. When the return fan is running, its capacity shall modulate to maintain the design CFM, unless shutdown on faults or safeties.

1. On units without airflow measuring capability, the exhaust fan VFD speed setpoints shall be established by the TAB contractor for the respective design CFM flow rate.

1.5 DISCHARGE TEMPERATURE CONTROL – DOAS SEQUENCE TEMPLATE

A. In the Heating and Cooling Modes, the discharge air temperature setpoint shall provide neutral air of 70°F (adj.).

1.6 GAS HEATING CONTROL SEQUENCE TEMPLATE

A. The unit controller shall measure the supply air temperature and modulate/stage the heating capacity to maintain the discharge air setpoint, unless shutdown on faults, safeties.

B. There shall be a 3°F (adj.) deadband between energizing the heating and cooling modes. In the deadband range, both the heating and the cooling shall be disabled.

1.7 DX COOLING SEQUENCE TEMPLATE

A. The unit controller shall measure the supply air temperature and modulate/stage the cooling capacity to maintain the discharge air setpoint.

B. There shall be a 3°F (adj.) deadband between energizing the heating and cooling modes. In the deadband range, both the heating and the cooling shall be disabled.

1.8 CONDENSATE HIGH LEVEL OVERFLOW SAFETY SWITCH CONTROL SEQUENCE TEMPLATE

A. Disable cooling upon high level or overflow water detection by the safety switch.

1.9 DEHUMIDIFICATION CONTROL-DX HOT GAS SEQUENCE TEMPLATE

A. On a rise in space/return air humidity; cooling capacity shall stage/modulate to maintain cooling coil temperature below the entering air dewpoint. If the discharge air temperature drops below setpoint the hot gas reheat coil shall energize and maintain discharge air setpoint

1.10 DEHUMIDIFICATION CONTROL-PACKAGED UNIT SEQUENCE TEMPLATE

A. On a rise in space/return air humidity; dehumidification capacity shall stage/modulate to maintain dehumidification setpoint.

1.11 STEAM HUMIDIFIER SEQUENCE TEMPLATE

A. On a fall in space/return air humidity; humidification capacity shall stage/modulate to maintain humidification setpoint.

1.12 ENERGY RECOVERY WHEEL CONTROL SEQUENCE TEMPLATE

A. The energy recovery wheel shall be enabled in the occupied mode.

B. In economizer mode the heat wheel shall de-energize, the bypass damper shall open.

C. Provide control functions to limit frost formation and limit the exhaust air temperature from operating below the dew point.

1.13 UNIT HEATER- HW ELECTRO-MECHANICAL SEQUENCE TEMPLATE

A. Run Conditions:

1. A space heating thermostat shall operate a HW control valve. On a drop in space temperature below heating setpoint, the control valve shall open.
2. Upon sensing hot water temperature above the minimum hot water system setpoint, a return water aquastat shall enable the supply fan to run.
3. The reverse shall occur on a temperature rise above setpoint.

1.14 CABINET UNIT HEATER-HW ELECTRO-MECHANICAL SEQUENCE TEMPLATE

A. Run Conditions:

1. A space heating thermostat shall operate a HW control valve. On a drop in space temperature below heating setpoint, the control valve shall open.
2. Upon sensing hot water temperature above the minimum hot water system setpoint, a return water aquastat shall enable the supply fan to run.
3. The reverse shall occur on a temperature rise above setpoint.

1.15 FIN TUBE RADIATION CONTROL DDC SEQUENCE TEMPLATE

A. Run Conditions:

1. A space heating thermostat shall operate a HW control valve. On a drop in space temperature below heating setpoint, the control valve shall open, and the valve end switch when proven open shall enable the zone pump controller.
   a. Provide a 2-stage heating thermostat for control of equipment shown on the contract drawings to share a common space thermostat. Fin Radiation shall operate as 1st stage of heating
2. On a rise in space temperature above heating setpoint, the reverse shall occur.

1.16 PUMP CONTROL –CV SEQUENCE TEMPLATE

A. The zone pump shall energize when enabled by the zone controller. Refer to Fin Tube Control Sequence of Operation.

1.16 DESTRATIFICATION FAN CONTROL SEQUENCE TEMPLATE

A. Refer to wring diagram on drawing.

1.17 GENERAL EXHAUST FAN CONTROL SEQUENCE TEMPLATE

A. SPACE TEMPERATURE-THERMOSTAT: The local thermostat in the control circuit of this fan shall enable the exhaust fan when the space temperature exceeds the space temperature setpoint. The reverse shall occur on space temperature decrease.

1.18 DUCTLESS SPLIT SYSTEMS SEQUENCE TEMPLATE

A. These units are standalone and are not integrated into the BMS, refer to equipment IOM from approved submittals and sequence of operation.
   1. Refer to Fin Tube Radiation control sequence for control of equipment with common space thermostat.
      a. Refer to mechanical schedule for accessory control that are required for ductless split systems operating with common space thermostats.

PART 2- BUILDING CONTROL SEQUENCE REQUIREMENTS

2.1 BUILDING SPECIFIC CONTROL SEQUENCE REQUIREMENTS

A. A central station Building Management System- BMS is not included in this project.

2.2 ROOFTOP UNIT CONTROL SEQUENCE REQUIREMENTS

A. RT-1: (SF, EF, Gas, DX, HGR, ERW) Provide the operating features below based on the control sequences templates above:

1. Unit Control Interface Template-DDC/STANDALONE
2. Supply Fan Control– CAV Control Sequence
3. Exhaust Fan – CAV Control Sequence
4. Discharge Temperature Control – DOAS Control Sequence
5. Gas Heating Control Sequence
6. DX Cooling Control Sequence
7. Dehumidification Control – DX Hot Gas Reheat Sequence
8. Energy Recovery Wheel Control Sequence

2.3 CABINET UNIT HEATER CONTROL SEQUENCE REQUIREMENTS

A. CH-1, 2, 3: Provide the operating features below based on the control sequences templates above:

1. Unit Control Interface - Electro-Mechanical
2. Common Conditions Control Sequence
3. Cabinet Unit Heater- HW Electro-Mechanical Sequence
4. Pump Control CV Sequence

2.4 UNIT HEATER CONTROL SEQUENCE REQUIREMENTS

A. UH-1: Provide the operating features below based on the control sequences templates above:

1. Unit Control Interface - Electro-Mechanical

2. Common Conditions Control Sequence
3. Unit Heater- HW Electro-Mechanical Sequence
4. Pump Control CV Sequence

2.5 DEHUMIDIFIER CONTROL SEQUENCE REQUIREMENTS

A. DU-1, 2, 3, 4: Provide the control features below based on the descriptions above:

1. Unit Control Interface Template-DDC/STANDALONE
2. Common Conditions Control Sequence
3. Dehumidifier Control Sequence
4. Condensate High Level Overflow Safety Switch Control Sequence

2.6 HUMIDIFIER CONTROL SEQUENCE REQUIREMENTS

A. H-1, 2: Provide the control features below based on the descriptions above:

1. Unit Control Interface Template-DDC/STANDALONE
2. Common Conditions Control Sequence
3. Steam Humidifier Control Sequence

2.7 FIN TUBE RADIATION CONTROL SEQUENCE REQUIREMENTS

A. BB-1 through 11, P-1: Provide the operating features below based on the control sequences templates above:

1. Unit Control Interface -Electro-Mechanical
2. Common Conditions Control Sequence
3. Fin Tube Radiation Control Sequence
4. Pump Control CV Sequence

2.8 DUCTLESS SPLIT SYSTEM CONTROL SEQUENCE REQUIREMENTS

A. SS/HP: Provide the control features below based on the descriptions above:

1. Unit Control Interface Template-DDC/STANDALONE
2. Common Conditions Control Sequence
3. Ductless Split Systems Control Sequence
4. Fin Tune Radiation Control Sequence (for systems sharing a commons space thermostat)

2.9 DESTRATIFICATION CONTROL SEQUENCE REQUIREMENTS

A. DSF-1, 2: Provide the operating features below based on the control sequences templates above:

1. Unit Control Interface - Electro-Mechanical
2. Destratification Fan Control Sequence

2.10 BUILDING EXHAUST FAN CONTROL SEQUENCE REQUIREMENTS

A. Refer to the Exhaust Fan table below for identification of the control method and sequencing requirements for each exhaust fan.

B. Exhaust Fan Control Table

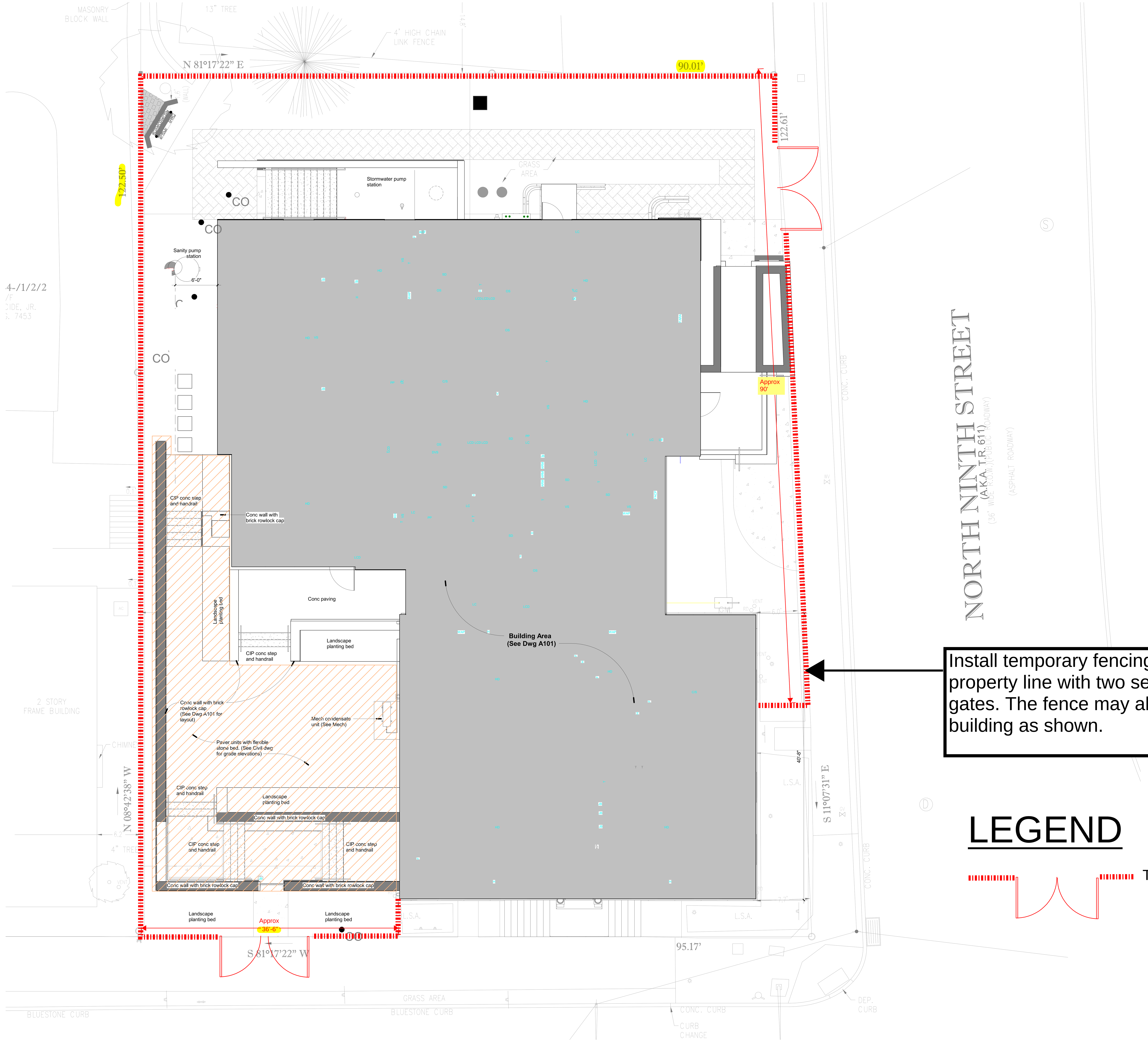
Fan	Control Method / Interlocked Equipment
EF-1	Local Thermostat

PART 3 - EXECUTION

3.1 RELATED DOCUMENTS

A. Contract Drawings, Section 23 0900.

END OF SECTION 23 0901



Install temporary fencing continuous at property line with two secured entrance gates. The fence may abut the existing building as shown.

LEGEND

Temporary Fencing and Gates

1 Architectural Site Plan
3/16" = 1'-0"

Note:
This Plan is intended to provide dimensional layout of site walls.
Refer to Civil Drawings for overall site construction details and rqmts.

Sketch 01 5000
Temporary Fence Layout

MKSD architects

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SEAL

Monroe County Historical Association Alteration & Heritage Center Addition

900 Main Street - Stroudsburg, PA 18360

REVISIONS
01.26.23 - Issued for Permit

No.	Date	Description

DRAWING TITLE
Architectural Site Plan

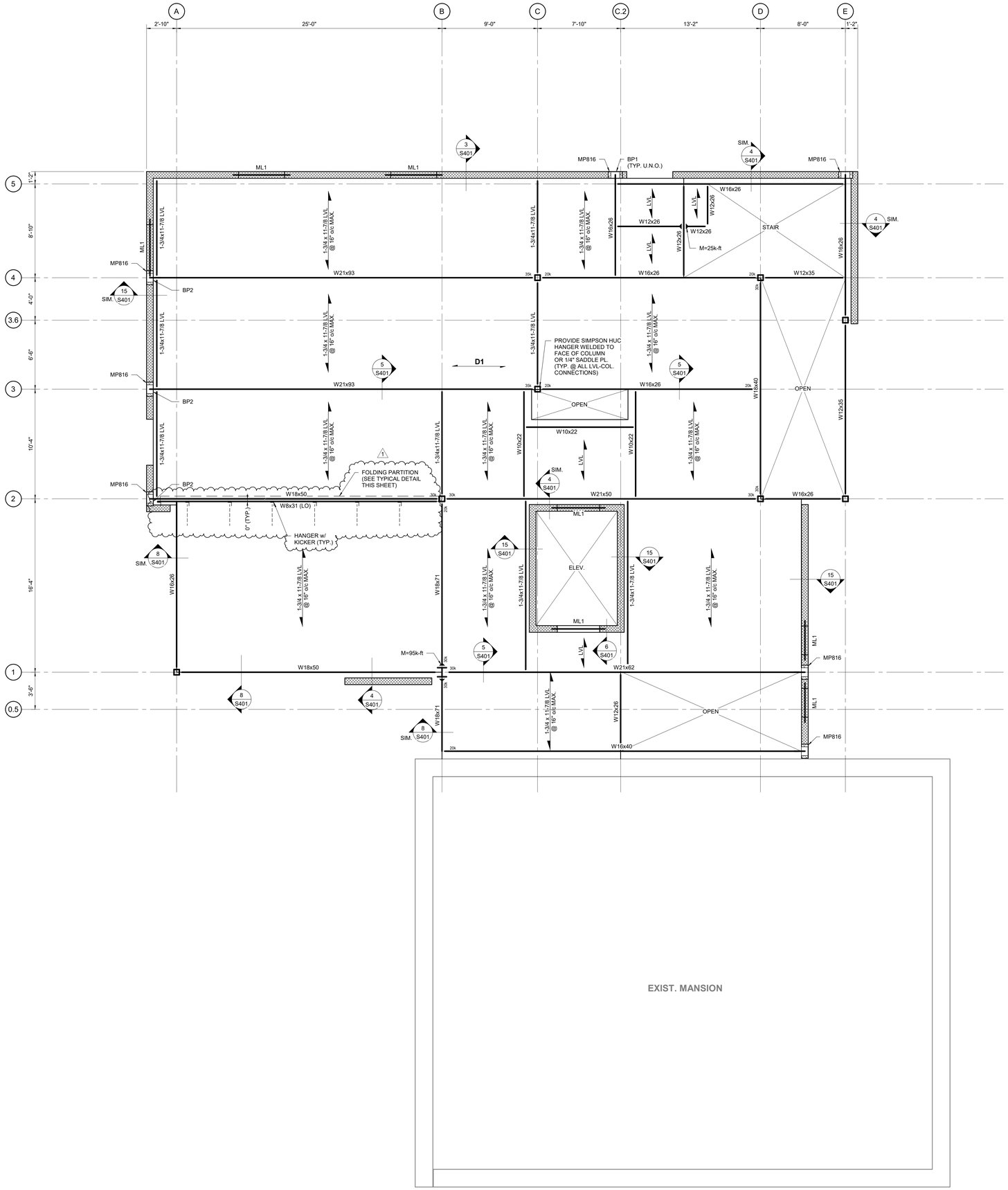
PROJECT NUMBER
16.200

DRAWN BY
Author

SCALE
3/16" = 1'-0"

DATE
AD1 - 02.07.23

DRAWING NUMBER



SECOND FLOOR FRAMING PLAN

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

NOTES:

1) TOP OF SHEATHING = +10'-11 1/4", FROM DATUM ELEVATION 0'-0", UNLESS NOTED OTHERWISE.

2) TOP OF STEEL EL. (-2 1/4") FROM TOP OF SHEATHING ELEVATION.

3) POSTS AND POINT LOAD BLOCKING SHALL RUN FROM INITIAL BEARING POINT DOWN TO FOUNDATION.

4) D1 INDICATES 3/4" T&G OSB SHEATHING.

5) 'ML_' INDICATES LINTEL. SEE BEARING WALL LINTEL SCHEDULE ON SHEET S200.

6) 'BP_' INDICATES BEARING PLATE. SEE BEARING PLATE SCHEDULE ON SHEET S200.

7) 'LVL' INDICATES 1-3/4 x 11-7/8 LVL @ 16" o/c MAX.

8) ALL STEEL BEAM/GIRDER CONNECTIONS NOT CONNECTED TO COLUMNS SHALL BE DESIGNED FOR A MINIMUM UNFACTORED VERTICAL REACTION OF 15 kips, UNLESS NOTED GREATER. CONNECTIONS TO COLUMNS TO BE PER GENERAL NOTES. ALL REACTIONS SHOWN ON PLAN ARE SERVICE LOADS.

9) ALL EXISTING DIMENSIONS, ELEVATIONS, AND LOCATIONS OF EXISTING STRUCTURES, OR RELATIVE TO EXISTING STRUCTURES, THAT ARE SHOWN ON THE STRUCTURAL DOCUMENTS WILL BE VERIFIED BY FIELD MEASUREMENTS PERFORMED BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER.

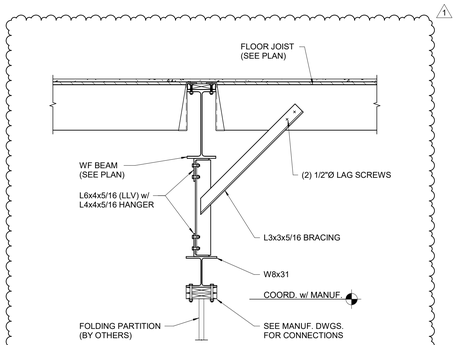
10) THE STRUCTURAL DOCUMENTS HAVE BEEN PREPARED BASED ON AVAILABLE KNOWLEDGE OF EXISTING CONDITIONS. IF, DURING DEMOLITION, EXCAVATION OR CONSTRUCTION, ACTUAL CONDITIONS ARE DISCOVERED TO DIFFER FROM THOSE INDICATED ON THE DOCUMENTS, THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED.

11) ALL STRUCTURAL DEMOLITION MUST BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

12) SELECTIVELY DEMOLISH STRUCTURAL COMPONENTS AS REQUIRED TO CONSTRUCT NEW WORK. PRIOR TO ANY DEMOLITION WORK, AN ENGINEERING SURVEY REPORT OF THE STRUCTURE SHALL BE PREPARED BY THE CONTRACTOR TO DOCUMENT THE CONDITION OF THE FRAMING, FLOORS, AND WALLS. ANY ADJACENT STRUCTURE WHERE OCCUPANTS MAY BE EXPOSED SHALL BE SIMILARLY REVIEWED.

13) SEE ARCHITECTURAL DRAWINGS FOR ALL THE DIMENSIONS. DIMENSIONS ON THIS DRAWING ARE FOR THE CONVENIENCE ONLY AND MUST BE CHECKED WITH ARCHITECTURAL DRAWINGS FOR ACCURACY. DIMENSIONS ON ARCHITECTURAL DRAWINGS GOVERN.

14) ⟵ INDICATES MOMENT CONNECTION FOR UNFACTORED GRAVITY LOADS SPECIFIED ON PLAN, SEE TYPICAL DETAIL ON S400.



PARTITION SUPPORT DETAIL

NOTES:
1) COORDINATE DIMENSIONS w/ EQUIPMENT MANUFACTURER.

ADDENDUM 1
2/7/2023

SLATE
STRUCTURAL ENGINEERS
40 South Main Street | Nazareth PA 18064 | (610) 365-7634
www.slatestructural.com | Project No. 200.052

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SEAL

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
STEVEN F. MONTGOMERY
ENGINEER
PE090731

Monroe County Historical Association
Alteration & Heritage Center Addition
900 Main Street - Stroudsburg, PA 18360

REVISIONS

01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
SECOND FLOOR FRAMING PLAN

PROJECT NUMBER
16.200

DRAWN BY
SFM

SCALE
As indicated

DATE
01.26.23

DRAWING NUMBER
S102

www.mksdarchitects.com

Note E1: **Exhibit Scope of Work - Salvage Portion of the existing 1890's building:**

5 days prior to the schedule date for building demolition, the contractor shall meet on site with the Architect and Owner's representative to mark out a portion of existing wood frame building exterior wall to be selectively removed for salvage & reconstruction on the interior of the building as a museum exhibit by the contractor. This work is here after referred to as the "exhibit" and is to be as follows:

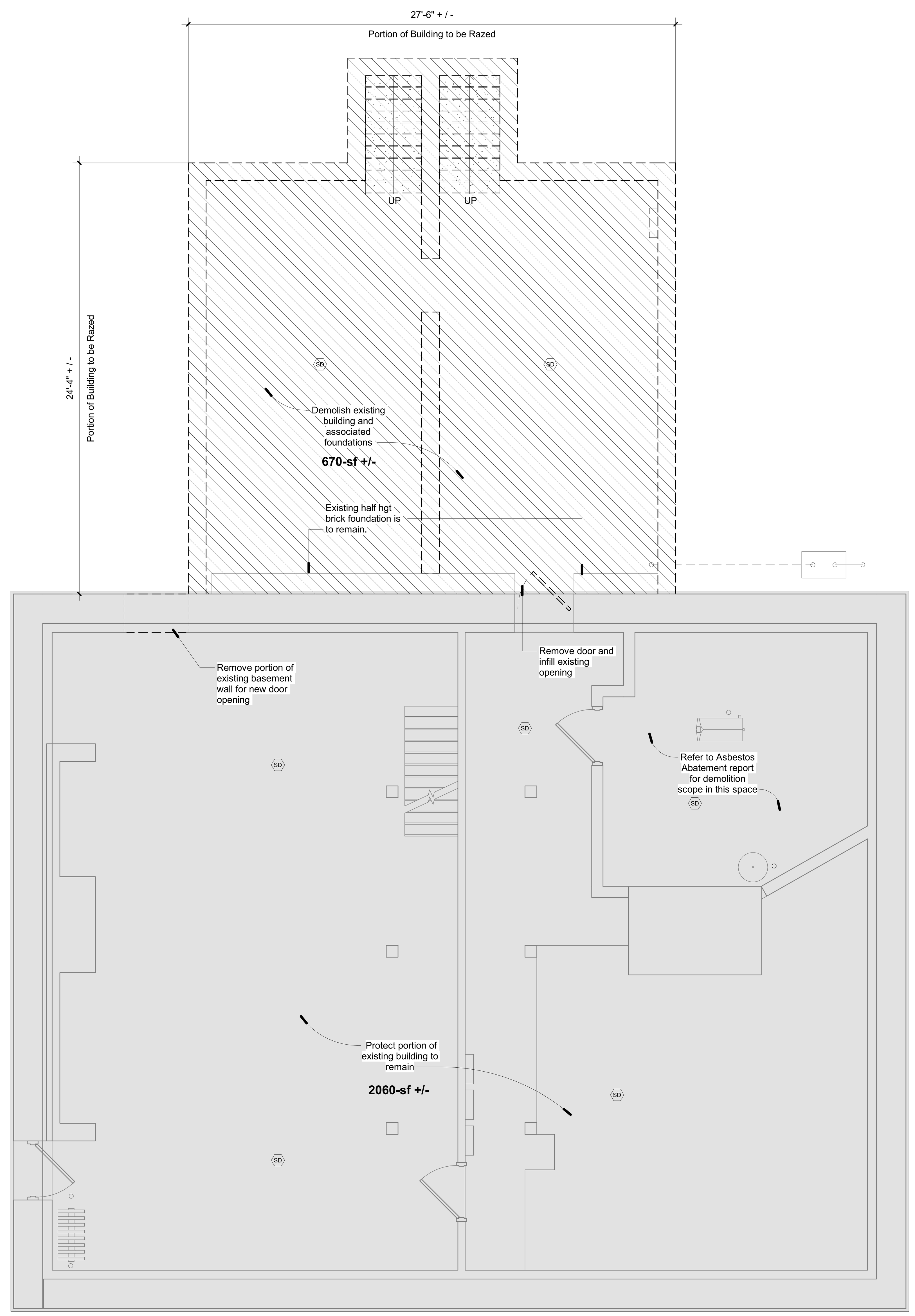
Exhibit Size:
Width: 6-ft wide wall section
Depth: Approximately 2-ft deep including 2-ft long first floor, 2nd floor and roof rafters and sheathing, subflooring board and finish flooring boards.
Height: Full hgt from foundation sill plate to approximately 2-ft above the exist roof plate.

Materials to be included: exterior wall studs, floor joists, roof rafters, exterior sheathing, subflooring and finish floorboards.

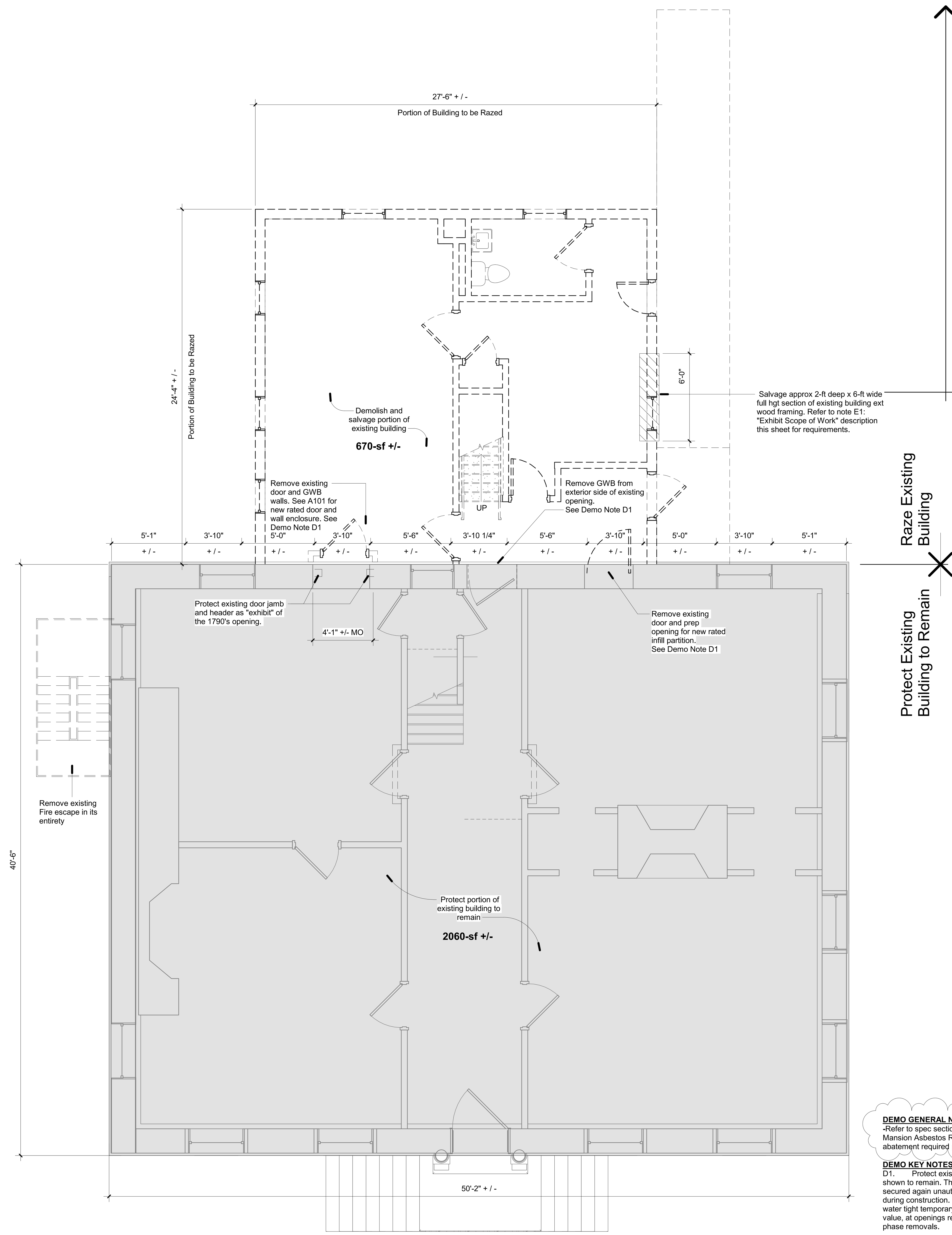
Materials to be disposed of (not required): Exterior siding, interior lath and plaster, interior floor finishes, roofing materials and building paper.

Statement of design intent: Contractor is to carefully remove and reconstruct the portion of the existing 1890's, wood frame exterior wall (exhibit size as defined above). Design intent is for the public to view the exhibits exposed wood framing members reconstructed in the manner they were originally assembled with cut nails. Fine blade, reciprocating saws shall be used to cut the existing nails as required to separate the members for contractor salvage, storage and reconstruction. The contractor shall endeavor to minimize sawblade marks. Architect and Owner acknowledge that some blade mark will be acceptable but only to the extent impractical to conceal them.

Attachment: Install 3 rows of 12 ga galv steel brackets (4 per row = 12 total, ptd black). Secured brackets to the interior of the new CMU wall before the GWB & furing is installed. The brackets shall extend 4" beyond the face of GWB to allow for stainless steel bolted connection (1/4" dia) to a 12 ga galv steel tab angle attached to the backside of exhibit studs. Goal is to make the connections semi concealed.



B **Basement Existing/ Demolition Plan**
1/4" = 1'-0"



1 **1st Floor Existing/ Demolition Plan**
1/4" = 1'-0"

DEMO GENERAL NOTES:
-Refer to spec section 00 3126.01 MCHS Stroud Mansion Asbestos Report for hazardous material abatement required prior to building demolition

DEMO KEY NOTES:
D1. Protect existing building construction shown to remain. The existing building shall be secured again unauthourized entry at all times during construction. Install weather resistant and water tight temporary infill with R-10 min insul value, at openings resulting from the demo phase removals.

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Alteration & Heritage Center Addition
900 Main Street - Stroudsburg, PA 18360

REVISIONS
01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
Architectural Building Demolition Plan - Level 00 & 01

PROJECT NUMBER
16.200

DRAWN BY
MKSD

SCALE
1/4" = 1'-0"

DATE
01.26.23

DRAWING NUMBER
D101

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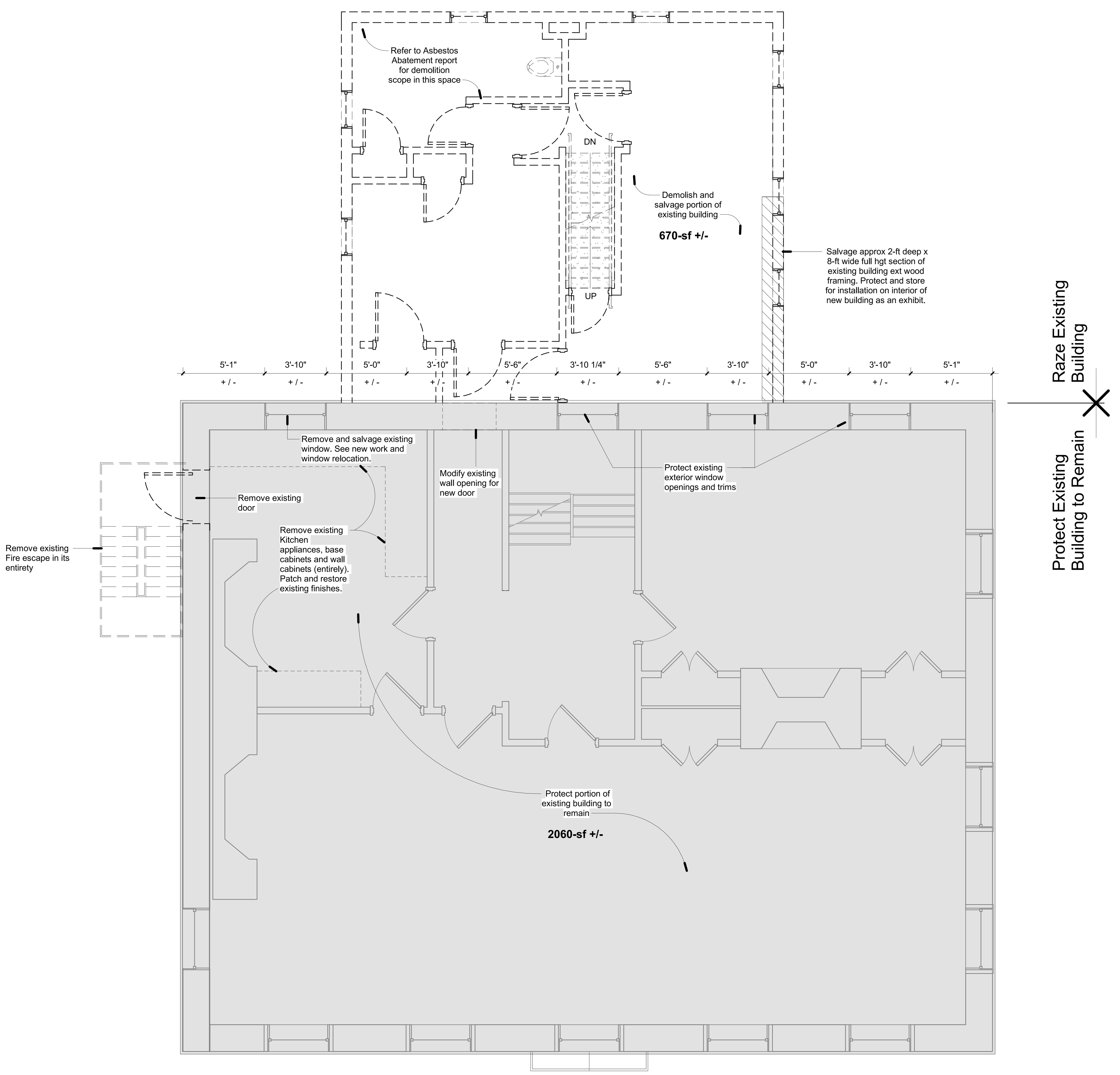
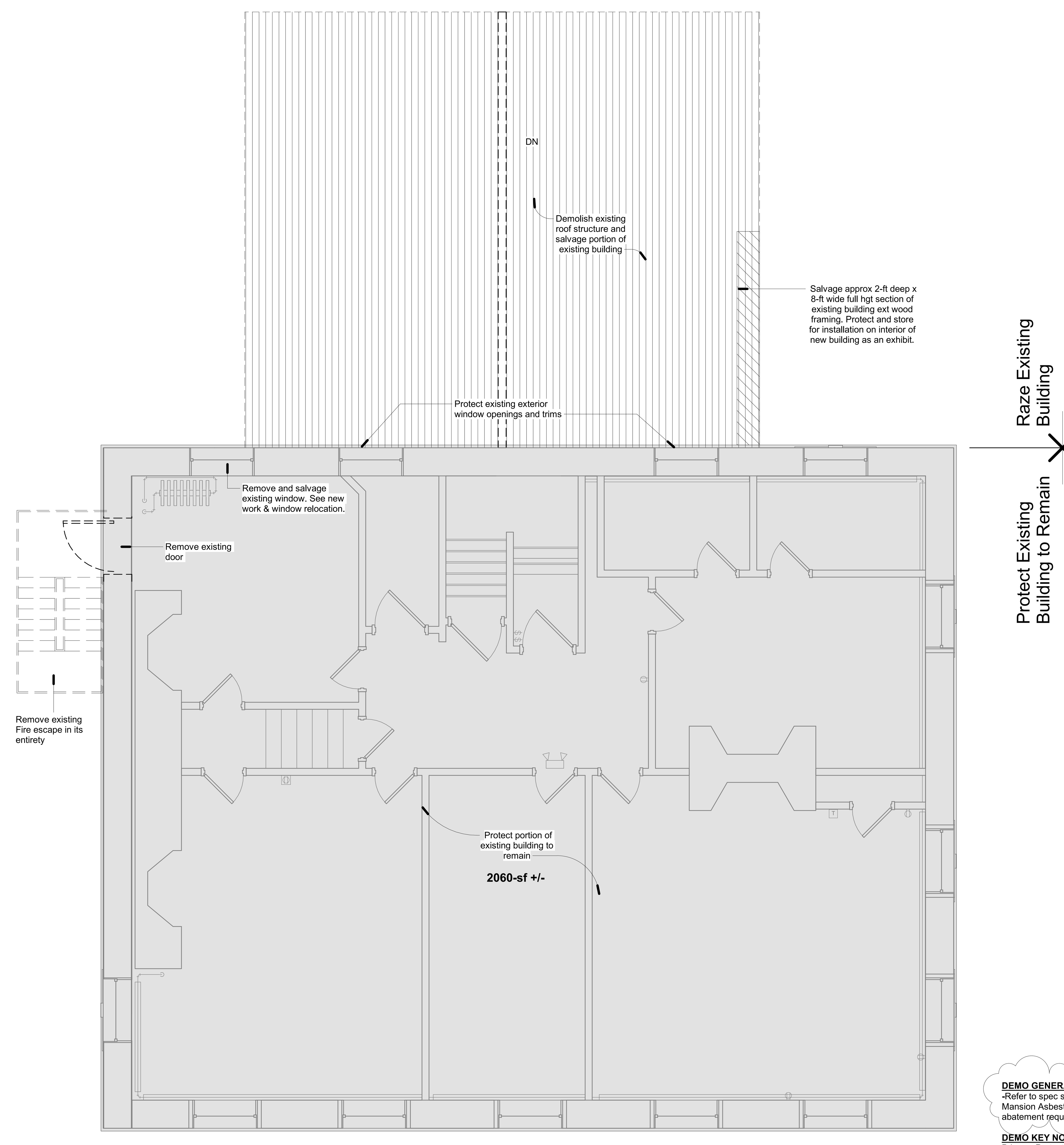


2 2nd Floor Existing/ Demolition Plan

1/4" = 1'-0"

0' 2' 4' 8' 16'



3 3rd Floor Existing/ Demolition Plan

1/4" = 1'-0"

0' 2' 4' 8' 16'

DEMO GENERAL NOTES:
-Refer to spec section 00 3126.01 MCHS Stroud Mansion Asbestos Report for hazardous material abatement required prior to building demolition

DEMO KEY NOTES:
D1. Protect existing building construction shown to remain. The existing building shall be secured again unauthourized entry at all times during construction. Install weather resistant and water tight temporary infill with R-10 min insul value, at openings resulting from the demo phase removals.

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Monroe County Historical Association Alteration & Heritage Center Addition

900 Main Street - Stroudsburg, PA 18360

REVISIONS

01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
Architectural Building Demolidion Plan - Level 02 & 03

PROJECT NUMBER
16.200

DRAWN BY
MKSD

SCALE
1/4" = 1'-0"

DATE
01.26.23

DRAWING NUMBER
D102

www.mksdarchitects.com

MASONRY BLOCK WALL
13" TREE
4' HIGH CHAIN LINK FENCE
N 81°17'22" E
90.01'
122.50'
122.61'
Stormwater pump station
GRASS AREA
CO
Sanity pump station
6'-0"
Alt Bid Item GC-02: Install operable wall systems as shown on A101
Alt Bid Item GC-03: Install slate roofing in lieu of asphalt roofing Refer to A104 for shingle roof area and Addendum 1 narrative for slate specification rqmts.
CIP conc step and handrail
Landscape planting bed
Conc wall with brick rowlock cap (Base Bid). See Dwg A101 for layout
CIP conc step and handrail (Base Bid).
Conc paving (Base Bid).
Base Bid: Install site fence at property line as shown on Civil Drawings
Alt Bid Item GC-01: All site paving, steps, walls and railings courtyard side of this diagonal hatch lines
Base Bid: Finish grade and grass seed the courtyard area with uniform contours from building face to property line.
Building Area (See Dwg A101)
Courtyard paver units with flexible stone bed. See Civil dwg for grade elevations
Base Bid Mech condensate unit (See Mech)
Conc wall with brick rowlock cap. See Dwg A101 for layout
Landscape planting bed.
Conc wall with brick rowlock cap
2 STORY FRAME BUILDING
N 08°42'38" W
4" TREE
S 81°17'22" W
95.17'
S 11°07'31" E
NORTH NINTH STREET
(A.K.A. T.R. 611)
CONC. CURB
L.S.A.
GRASS AREA
BLUESTONE CURB
CONC. CURB
CURB CHANGE
DEP. CURB

1 Architectural Site Plan

3/16" = 1'-0"

Note:
This Plan is intended to provide dimensional layout of site walls.
Refer to Civil Drawings for overall site construction details and rqmts.

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DRAWING TITLE
Architectural Site Plan

PROJECT NUMBER
16.200

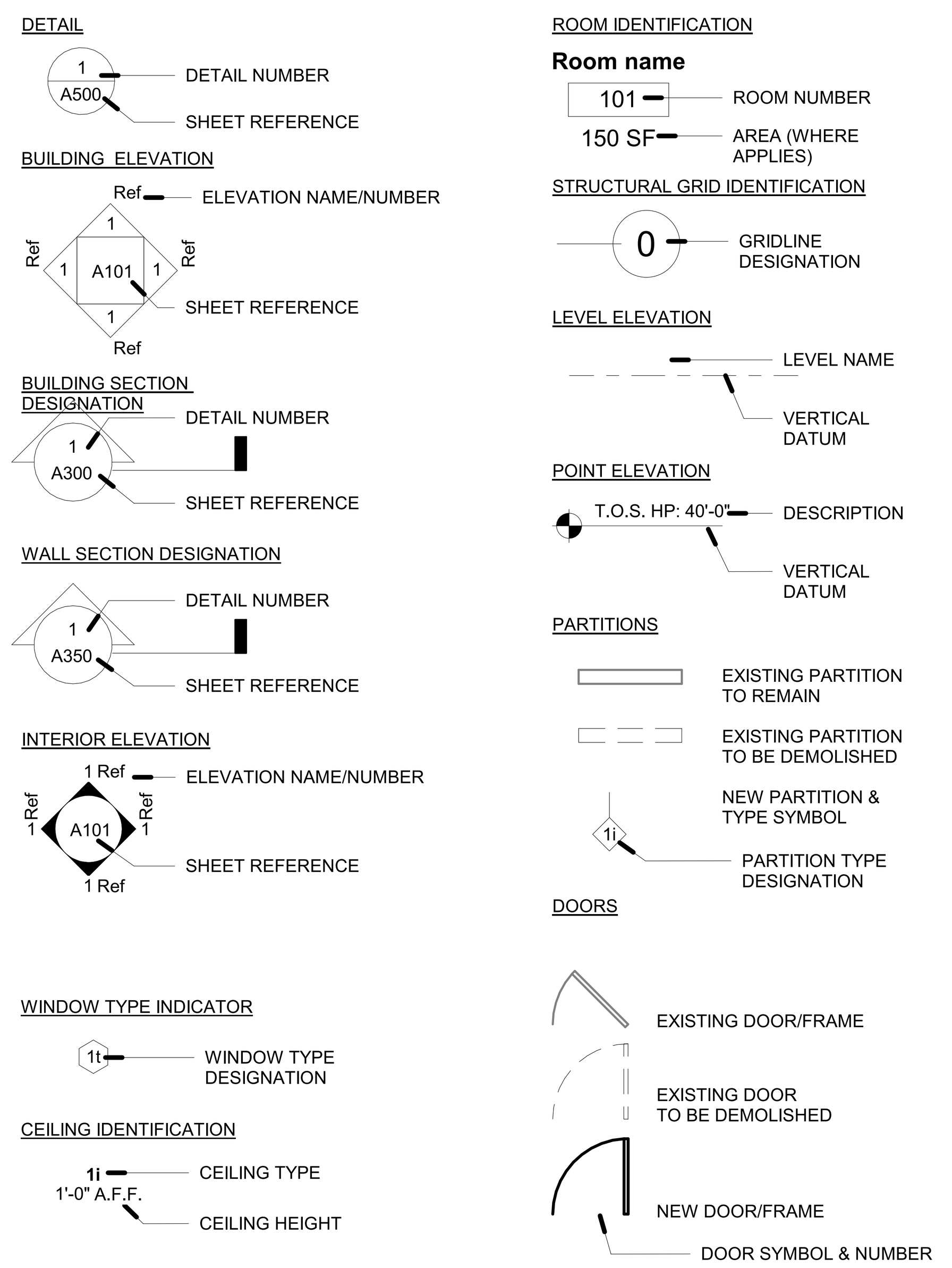
DRAWN BY
Author

SCALE
3/16" = 1'-0"

DATE
01.26.23

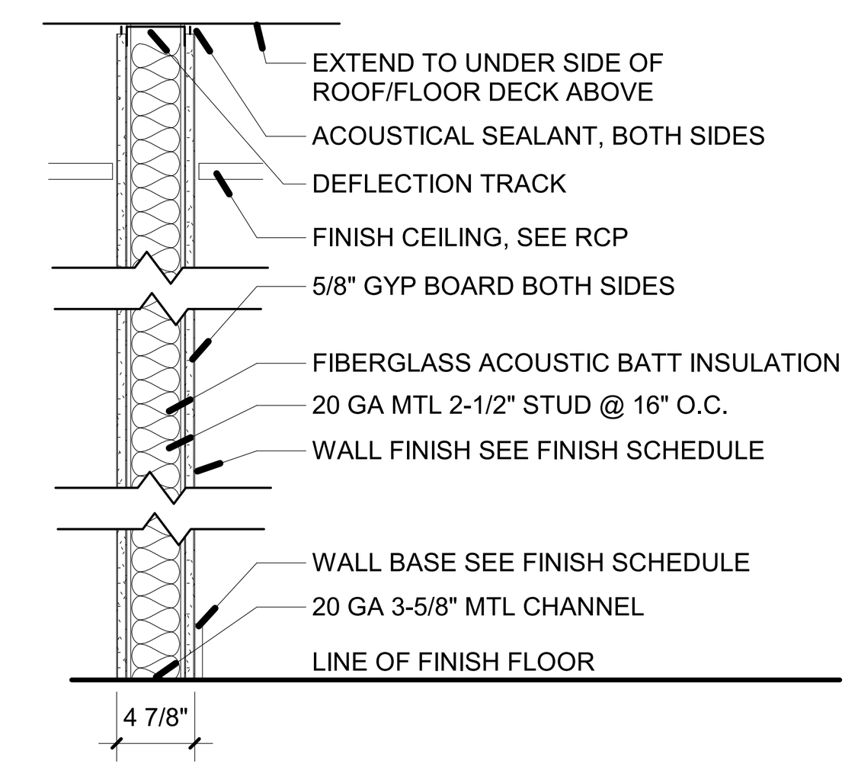
DRAWING NUMBER
A001

Symbols Legend



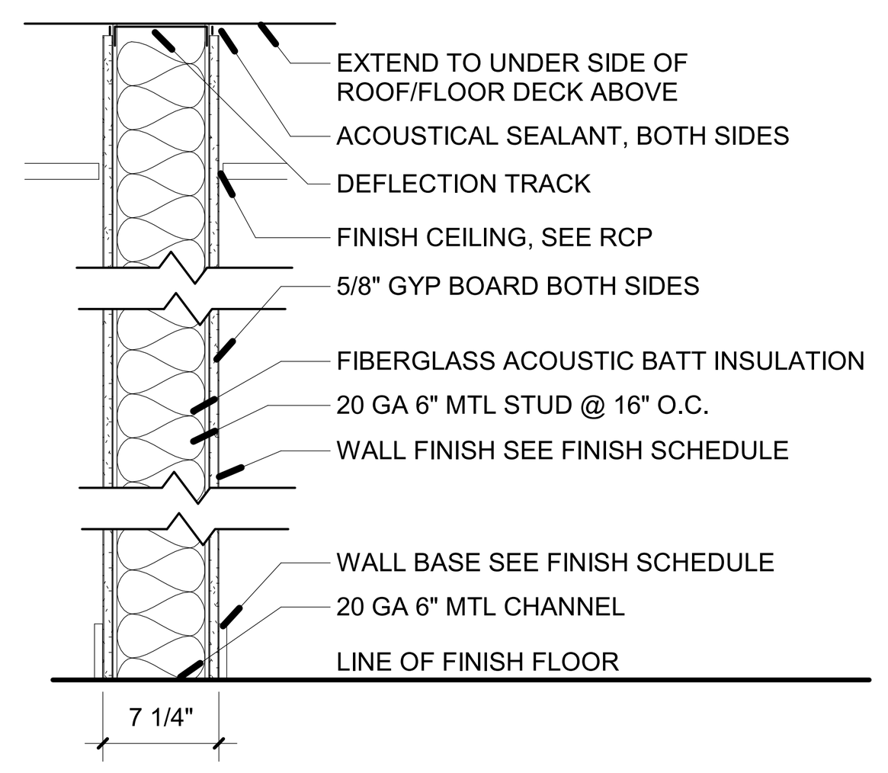
Abbreviations

A	
A/C	AIR CONDITIONING
A.C.M.	ALUMINUM COMPOSITE MATERIAL
A.C.T.	ACOUSTICAL CEILING TILE
A.F.F.	ABOVE FINISHED FLOOR
A.W.C.	ACOUSTIC WALL COVERING
ABV	ABOVE
ADD'L	ADDITIONAL
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE(LY)
AVG	AVERAGE
B	
BD	BOARD
BLDG	BUILDING
BRG	BEARING
BSMT	BASEMENT
BTM	BOTTOM
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
BW	BOTH WAYS
C	
C.I.P.	CAST-IN-PLACE
C.J.	CONTROL JOINT
C.L.	CENTER LINE
C.M.T.	CERAMIC MOSAIC TILE
C.M.U.	CONCRETE MASONRY UNIT
C.T.	CERAMIC TILE
CLG	CEILING
COL	COLUMN
CONC	CONCRETE
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
CPT	CARPET
CTR	CENTER
D	
D.F.	DRINKING FOUNTAIN
DEMO	DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DTL	DETAIL
DWG	DRAWING
E	
E	EAST
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM
E.J.	EXPANSION JOINT
E.W.C.	ELECTRIC WATER COOLER
EA	EACH
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.E.	FINISH FLOOR ELEVATION
FD	FLOOR DRAIN
FDN	FOUNDATION
FIN FL	FINISH FLOOR
FL	FLOOR
FT (')	FOOT
FTG	FOOTING
G	
G.W.B.	GYPSUM WALLBOARD
GALV	GALVANIZED
H	
H.M.	HOLLOW METAL
HCP	HANDICAP(PED)
HT	HEIGHT
HORIZ	HORIZONTAL
I	
IN	INCH(ES)
INCL	INCLUDE(S)
INFO	INFORMATION
INSUL	INSULATION (INSULATED)
INT	INTERIOR
J	
JAN	JANITOR
JT	JOINT
L	
LAV	LAVATORY
LTG	LIGHTING
M	
M.B.	MARKER BOARD
M.O.	MASONRY OPENING
MAINT	MAINTENANCE
MAS	MASONRY
MAT'L	MATERIAL
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
N	
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O	
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
P	
P LAM	PLASTIC LAMINATE
P.B.	PIN BOARD
PERF	PERFORATED
PERIM	PERIMETER
PL	PLATE
PLAS	PLASTER
PLBG	PLUMBING
PLWD	PLYWOOD
PNL	PANEL
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PT	PAINT
PTD	PAINTED
Q	
Q.T.	QUARRY TILE
QLTY	QUALITY
QTY	QUANTITY
R	
R	RISERS (STAIR)
r	RADIUS
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
R.W.C.	RAIN WATER CONDUCTOR
REINF	REINFORCE(D)(ING)(MENT)
REQ'D	REQUIRED
REV	REVISION, REVISED
RFRIG	REFRIGERATOR
RM	ROOM
RUB	RUBBER
S	
S.A.B.	SOUND ATTENUATION BLANKET
S.G.T.	STRUCTURAL GLAZED TILE
S.P.R.	SINGLE- PLY ROOFING
S.S.M.	SOLID SURFACE MATERIAL
SCHED	SCHEDULE
SECT	SECTION
SEP	SEPARATE
SF	SQUARE FOOT
SHWR	SHOWER
SIM	SIMILAR
SPEC	SPECIFICATIONS
SPEC'D	SPECIFIED
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUC	STRUCTURAL
SUSP	SUSPEND(ED)
T	
T	TREAD
T & G	TONGUE AND GROOVE
T.E.S.	TACTILE EXIT SIGN
T/	TOP OF
T/CONC	TOP OF CONCRETE
T/FTG	TOP OF FOOTING
T/JST	TOP OF JOIST
T/STL	TOP OF STEEL
T/WALL	TOP OF WALL
TB	TACK BOARD
T.B.R.	TO BE REMOVED
THRES	THRESHOLD
TLT	TOILET
T.S.	TACK STRIP
TYP	TYPICAL
TZ	TERRAZZO
U	
U.H.	UNIT HEATER
U.O.N.	UNLESS OTHERWISE NOTED
U/S	UNDERSIDE OF
V	
V.T.	VINYL TILE
VAR	VARIES
VAT	VINYL ASBESTOS TILE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
V.I.F.	VERIFY IN FIELD
VWC	VINYL WALL COVERING
W	
W.B.	DRY ERASE WHITE BOARD
W.C.	WATER CLOSET
W.W.F.	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
WD	WOOD
WGT	WEIGHT
WIN	WINDOW
Y	
YD	YARD



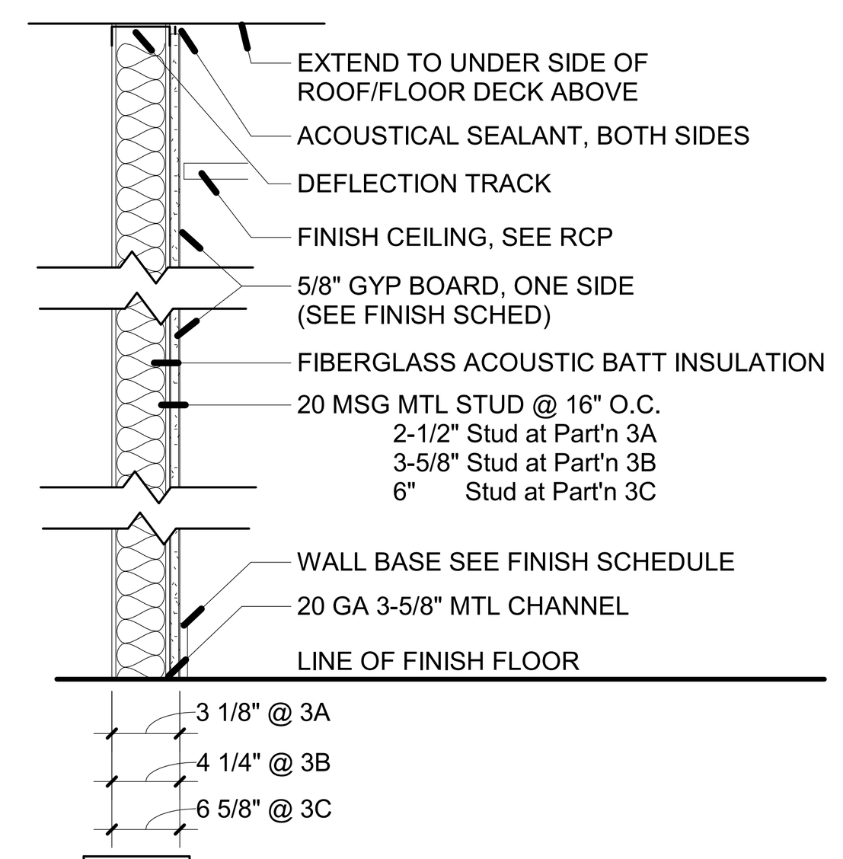
1 PARTITION TYPE - 3 5/8" Stud
0-HR fire rated

1R PARTITION TYPE - 3 5/8" Stud
1-HR fire rated
UL Des No. U419



2 PARTITION TYPE - 6" Stud
0-HR fire rated

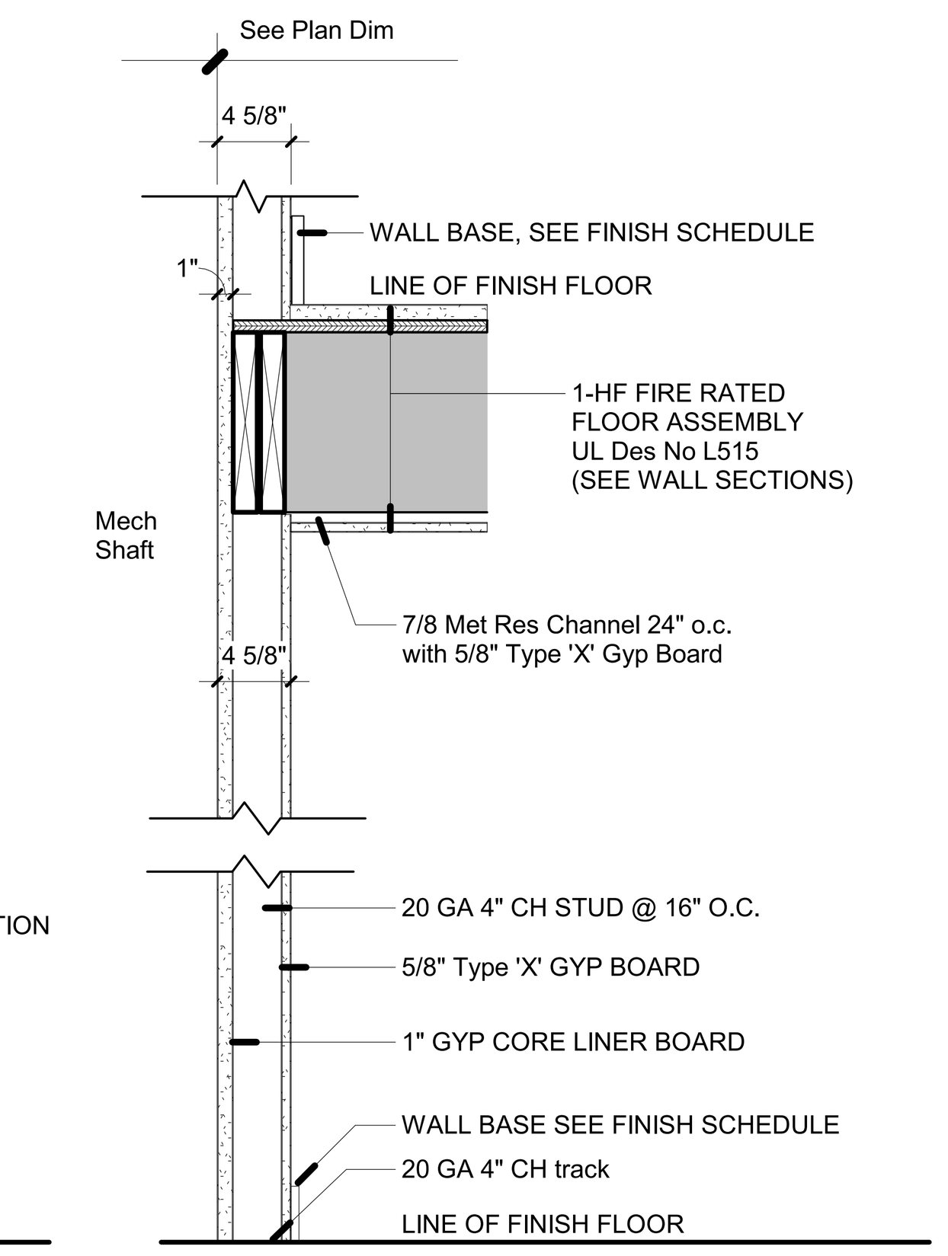
2R PARTITION TYPE - 6" Stud
1-HR fire rated
UL Des No. U419



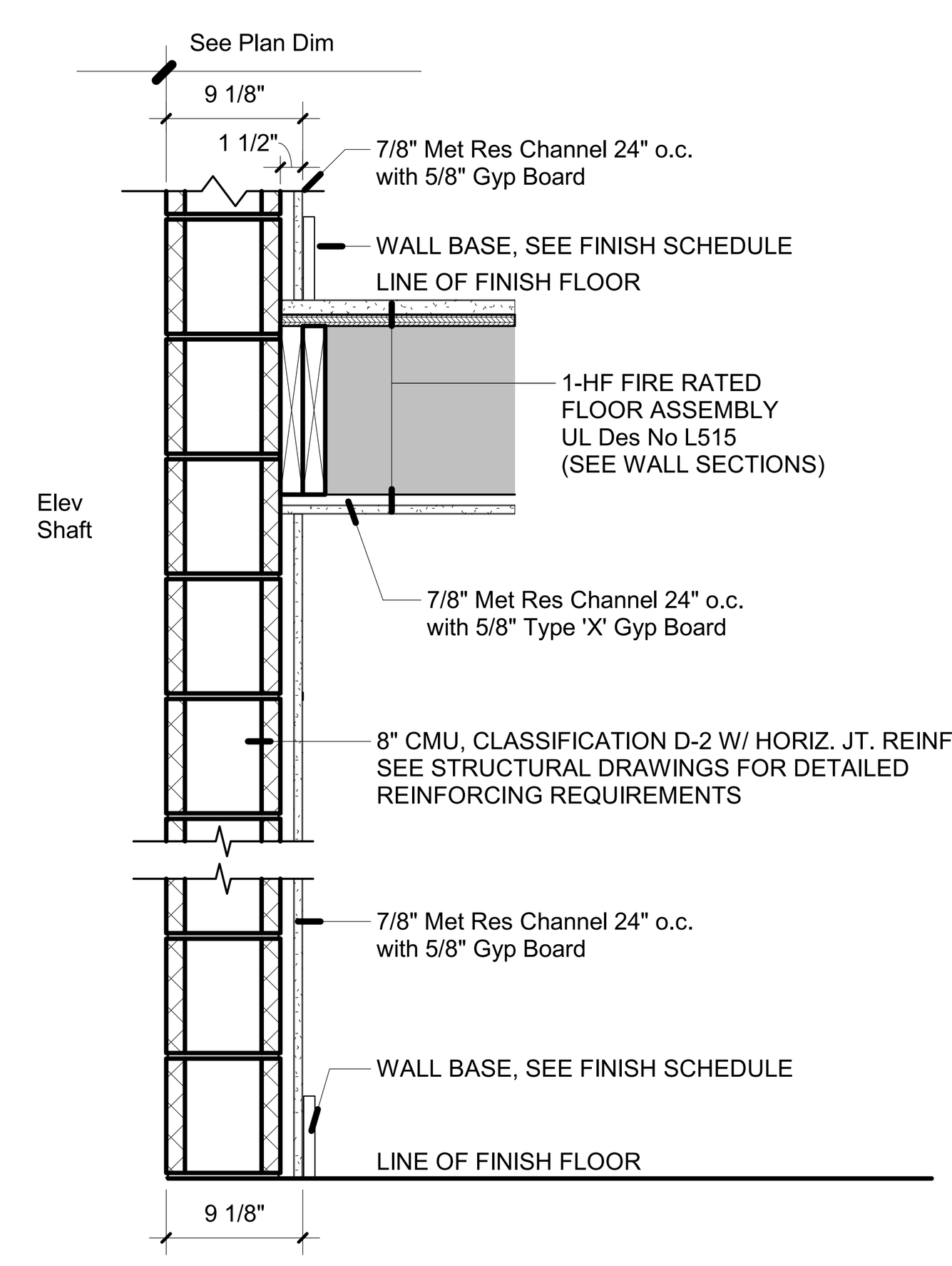
3A PARTITION TYPE - 2 1/2" Stud Chase Wall
0-HR fire rated

3B PARTITION TYPE - 3 5/8" Stud Chase Wall
0-HR fire rated

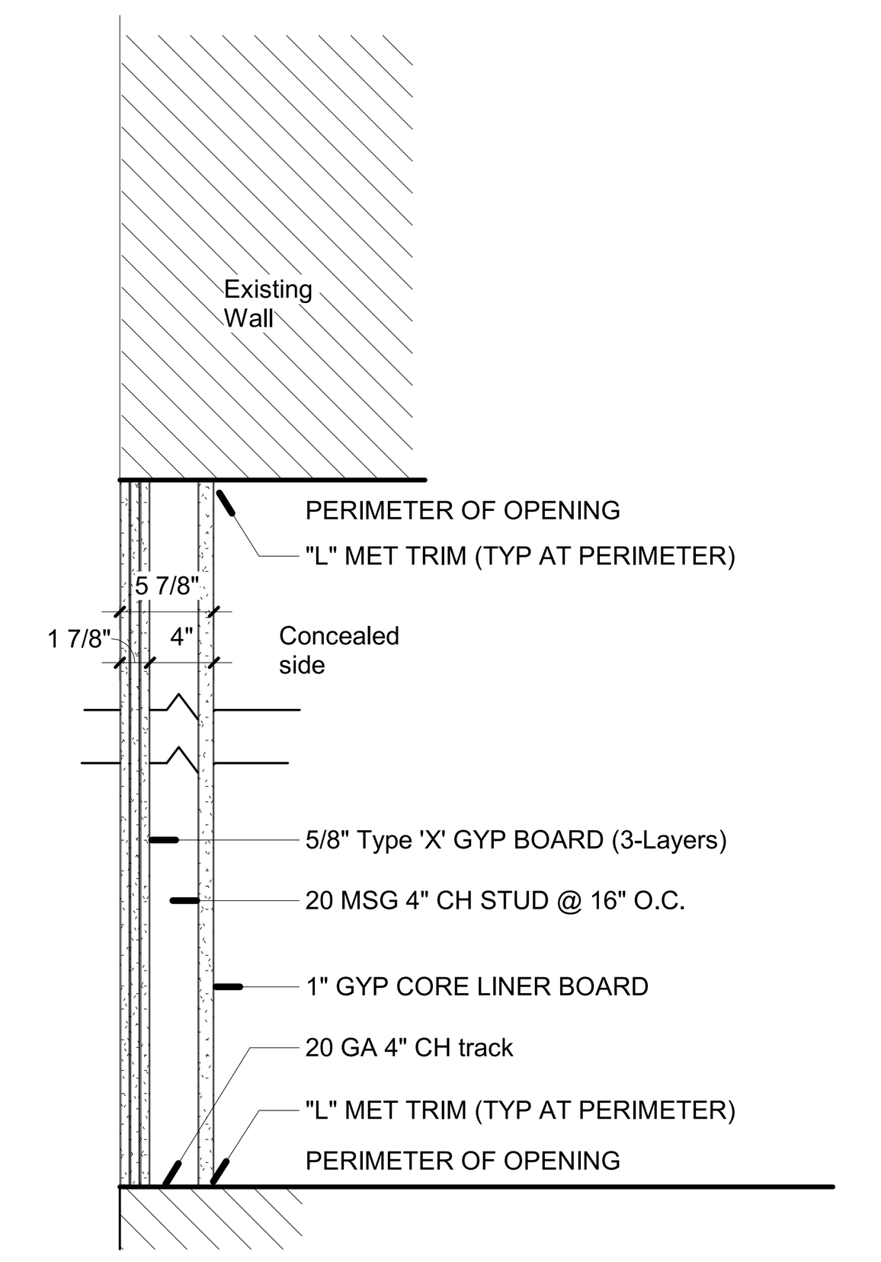
3C PARTITION TYPE - 6" Stud Chase Wall
0-HR fire rated



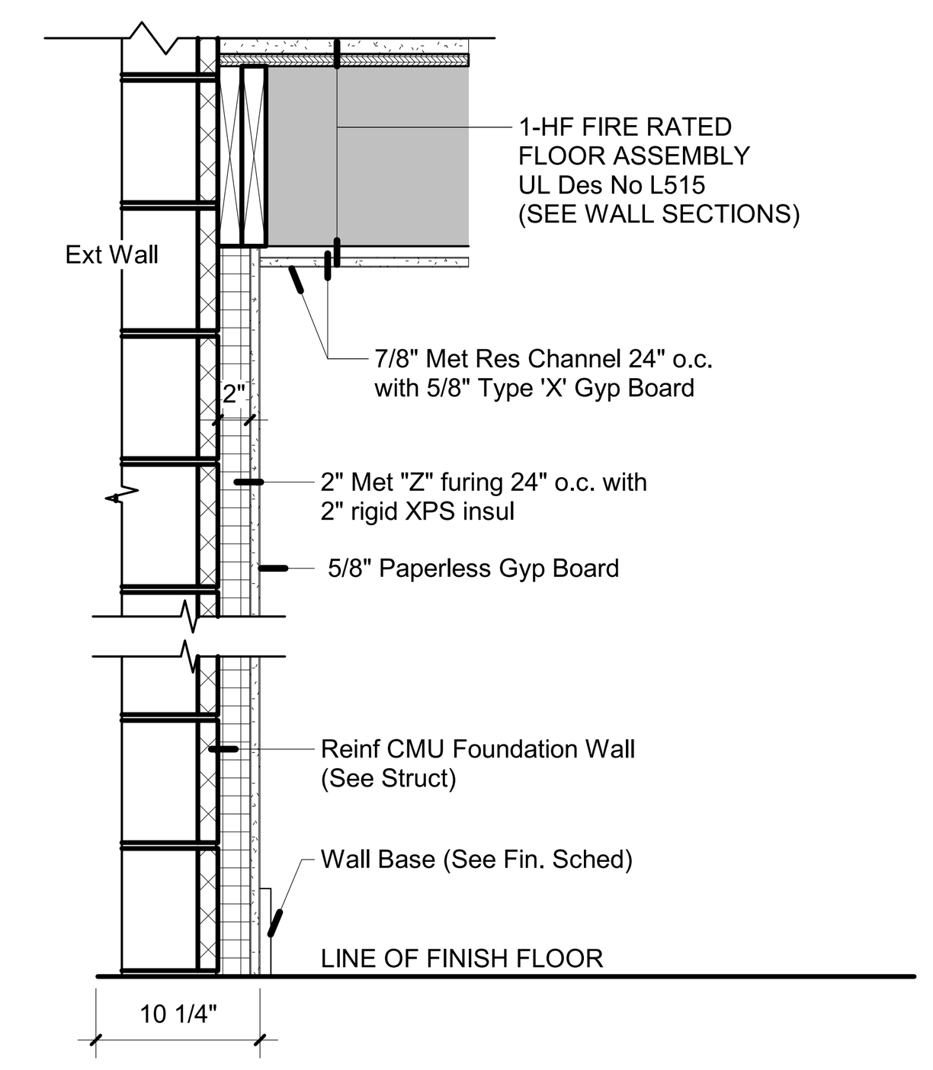
4R PARTITION TYPE - 4" CH Stud Shaftwall
1-HR fire rated
UL Des No. U415 System A



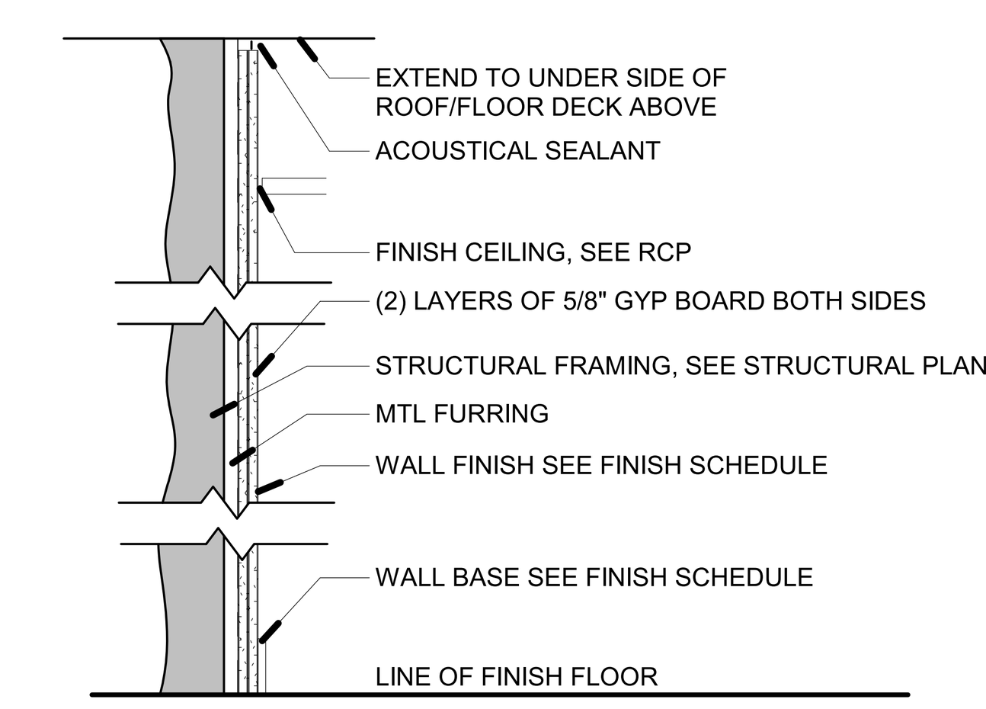
5R PARTITION TYPE - 8" CMU Shaftwall
1-HR fire rated
UL Des No. U905



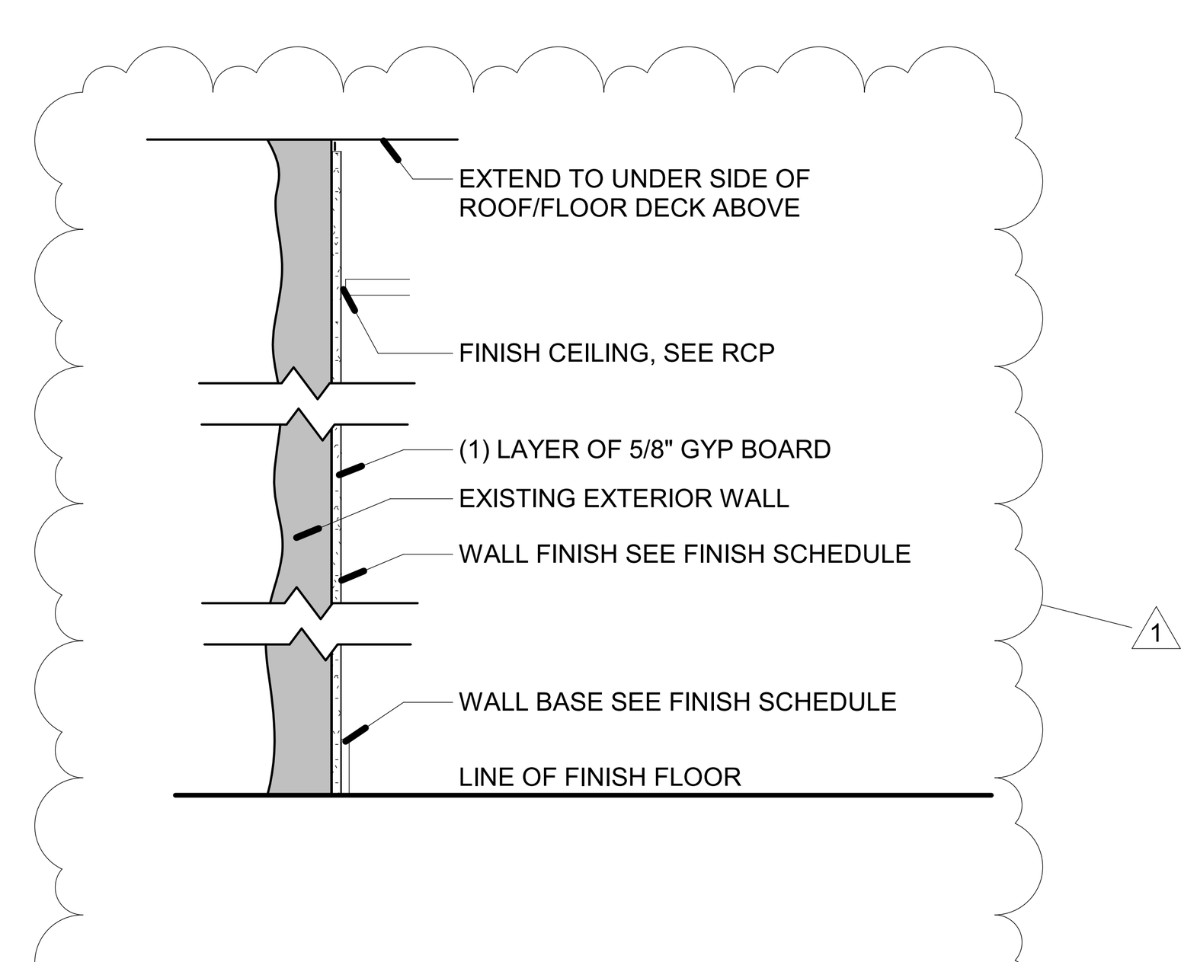
6R PARTITION TYPE - 4" CH Stud Shaftwall Infill Ex Opening
3-HR fire rated
UL Des No. U415 System G



7 PARTITION TYPE - 2" Insul & Z Furing
0-HR fire rated



8R PARTITION TYPE - Metal framing & GWB Column Wrap
1-HR fire rated structural steel wrap



9 PARTITION TYPE - GWB FURRING

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SEAL

Monroe County Historical Association Alteration & Heritage Center Addition

900 Main Street - Stroudsburg, PA 18360

REVISIONS
01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
Partition Types, Abbreviations, Symbols

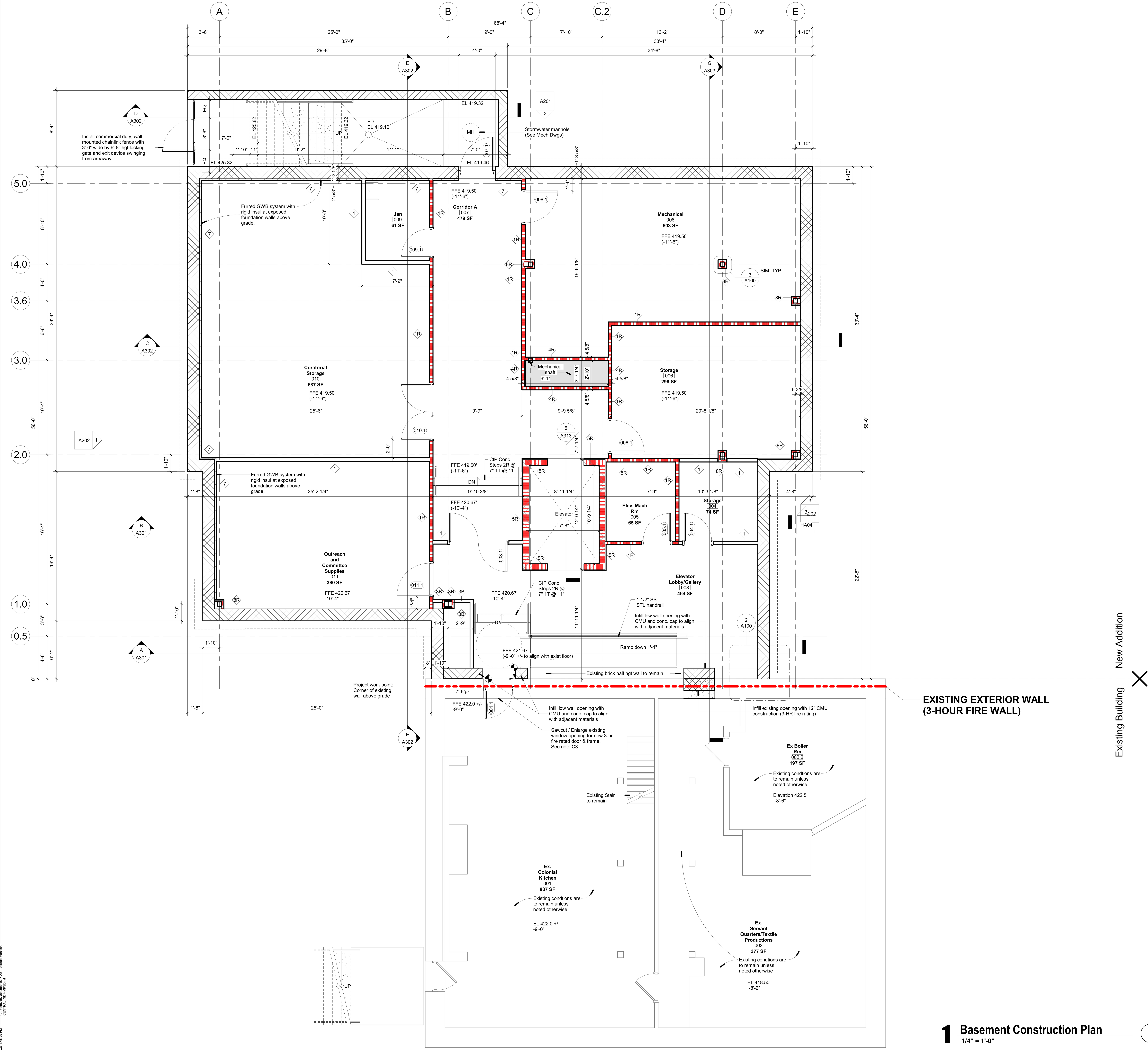
PROJECT NUMBER
16.200

DRAWN BY
MKSD

SCALE
As indicated

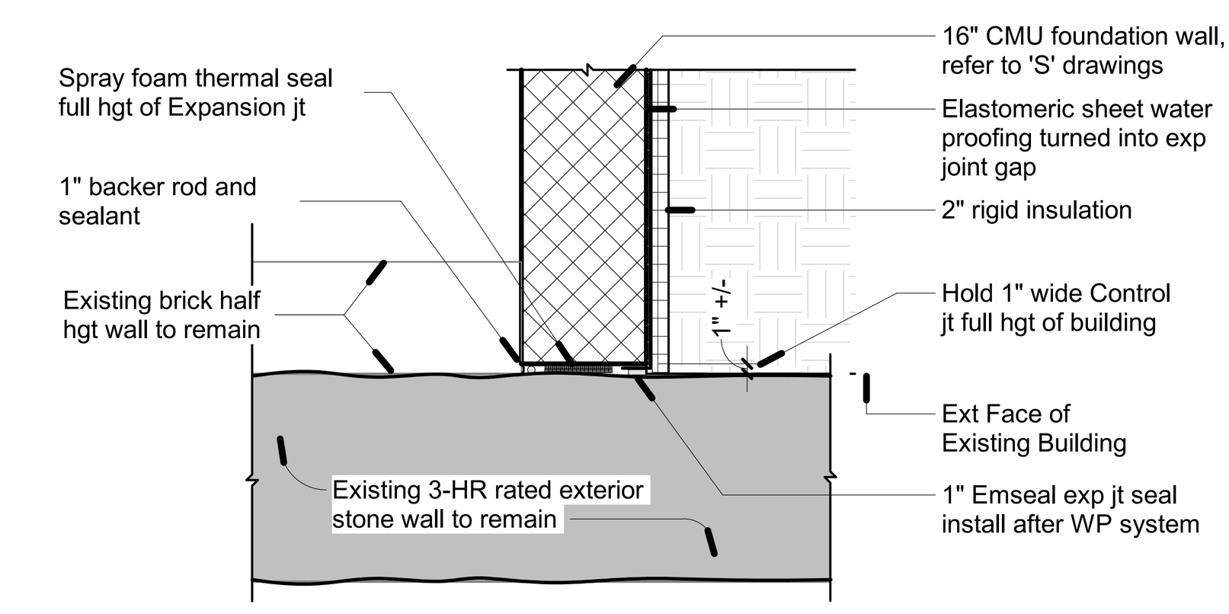
DATE
01.26.23

DRAWING NUMBER
A010



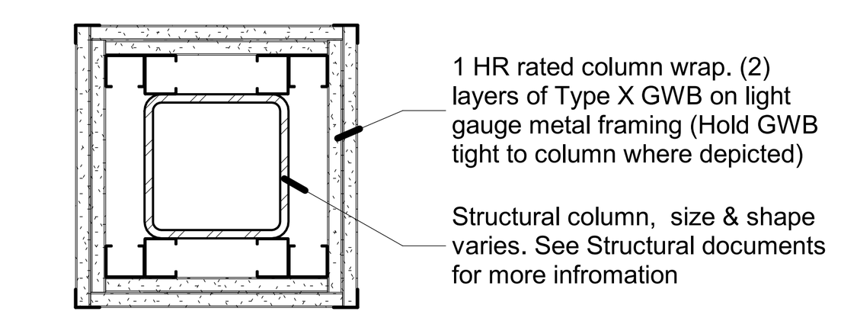
1 Basement Construction Plan

1/4" = 1'-0"



2 Plan Detail - Basement Expansion Joint

1/2" = 1'-0"



3 Plan Detail - Column Wrap

1 1/2" = 1'-0"

CONSTRUCTION NOTES:

C1. Protect existing window to remain. Clean glass and infill opening with 3-hr fire rated shaftwall assembly (ptd grey) on existing building side of window. Recess infill approx 2" to "visually retain the opening location".

C2. Protect existing window to remain. Clean glass and infill opening with shaftwall assembly (ptd grey) on north side of window.

C3. Infill door opening with 3-hr fire rated shaftwall assembly centered on the depth of the existing wall (Gift Shop side) to "visually retain the opening location" on both sides. Restore jamb head and sill with 5/8" GWB ptd to match the adjacent room color.

C4. Install 5/8" GWB with paint finish direct attached to the existing wood lath and plaster at the exterior wall surface of the original the Stone Building - Stroud Mansion. (Typical where exposed to the interior of the new addition).

Deferred Owner no cost option:
After the removal of the wood frame building (1893 Addition), the Owner may elect to delete portions of the GWB & paint scheduled for exterior wall surface of the original the Stone Building (Mansion). The desire is to expose portions of the oringinal 1790, stuccoed stone, wall behind the wood lath-n-plaster finish of the 1893 addition. This owner decision will be decided if exposed THE CONDITION lends itself to being displayed with effort equal to or less than the value of the GWB furing scheduled.

General Project Notes:
-The building construction classification is Type 3A requiring 1-hr fire rated enclosure for all structural steel members. Refer to details for typical steel beam GWB protection and detail 3/A100 for column GWB protection required at all project locations

1

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SEAL

Monroe County Historical Association Alteration & Heritage Center Addition

900 Main Street - Stroudsburg, PA 18360

REVISIONS

01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
Basement Construction Plan

PROJECT NUMBER
16.200

DRAWN BY
MKSD

SCALE
As indicated

DATE
01.26.23

DRAWING NUMBER
A100

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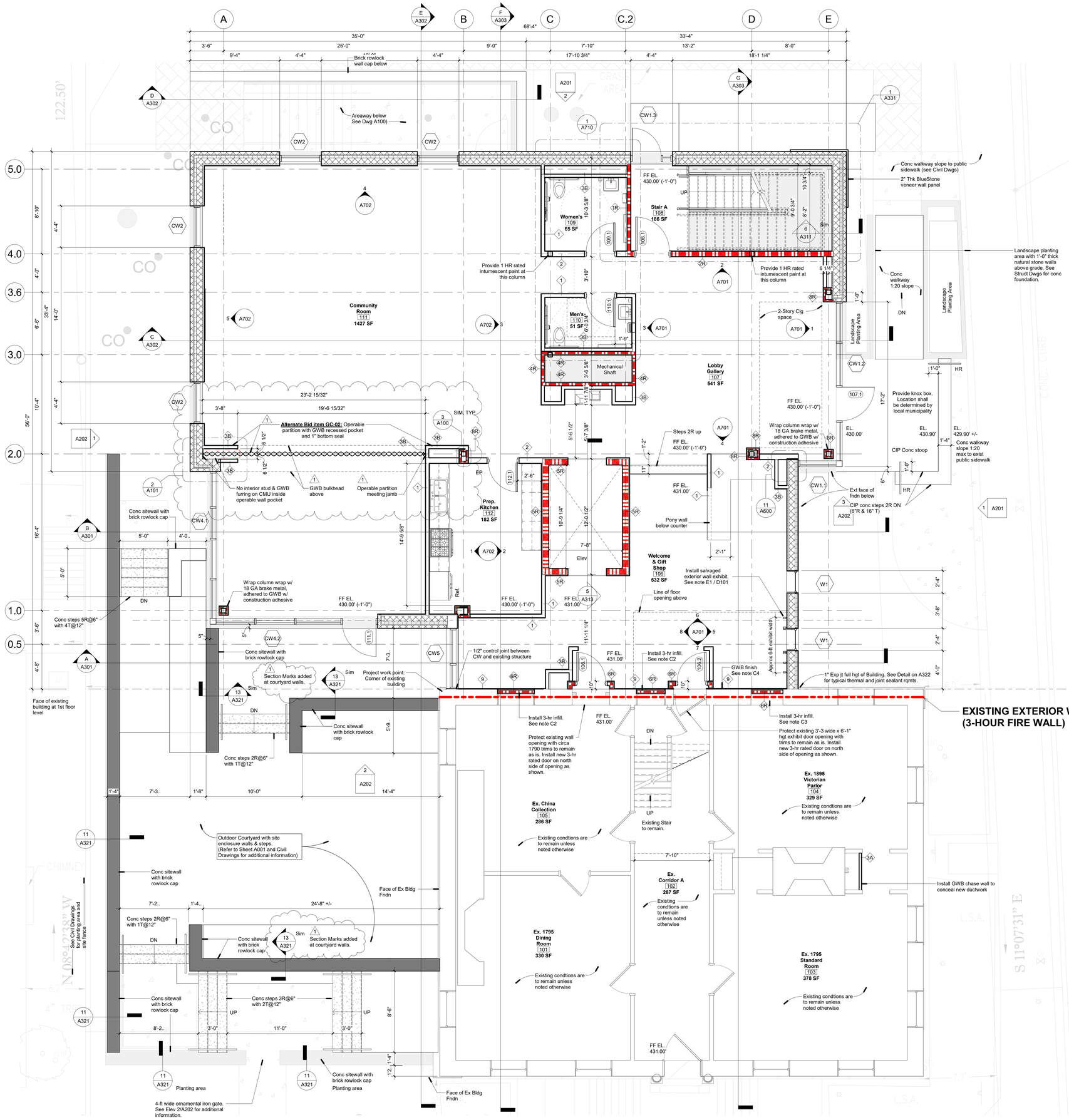
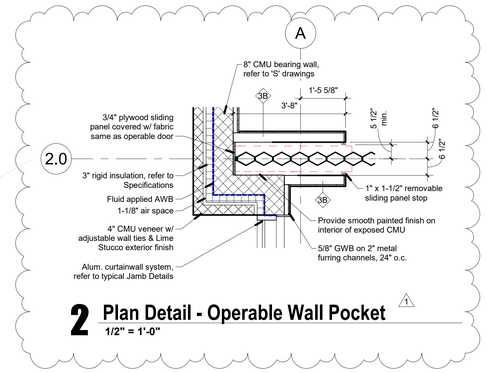


1 1st Floor Construction Plan
1/4" = 1'-0"



2 Plan Detail - Operable Wall Pocket
1/2" = 1'-0"

CONSTRUCTION NOTES:

C1. Protect existing window to remain. Clean glass and infill opening with 3-hr fire rated shaftwall assembly (ptd grey) on existing building side of window. Recess infill approx 2" to "visually retain the opening location".

C2. Protect existing window to remain. Clean glass and infill opening with shaftwall assembly (ptd grey) on north side of window.

C3. Infill door opening with 3-hr fire rated shaftwall assembly centered on the depth of the existing wall (Gift Shop side) to "visually retain the opening location" on both sides. Restore jamb head and sill with 5/8" GWB ptd to match the adjacent room color.

C4. Install 5/8" GWB with paint finish direct attached to the existing wood lath and plaster at the exterior wall surface of the original the Stone Building - Stroud Mansion. (Typical where exposed to the interior of the new addition).

Deferred Owner no cost option:
After the removal of the wood frame building (1893 Addition), the Owner may elect to delete portions of the GWB & paint scheduled for exterior wall surface of the original the Stone Building (Mansion). The desire is to expose portions of the oringinal 1790, stuccoed stone, wall behind the wood lath-n-plaster finish of the 1893 addition. This owner decision will be decided if exposed THE CONDITION lends itself to being displayed with effort equal to or less than the value of the GWB furing scheduled.

1 **General Project Notes:**
-The building construction classification is Type 3A requiring 1-hr fire rated enclosure for all structural steel members. Refer to details for typical steel beam GWB protection and detail 3/A100 for column GWB protection required at all project locations

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900 Main Street - Stroudsburg, PA 18360

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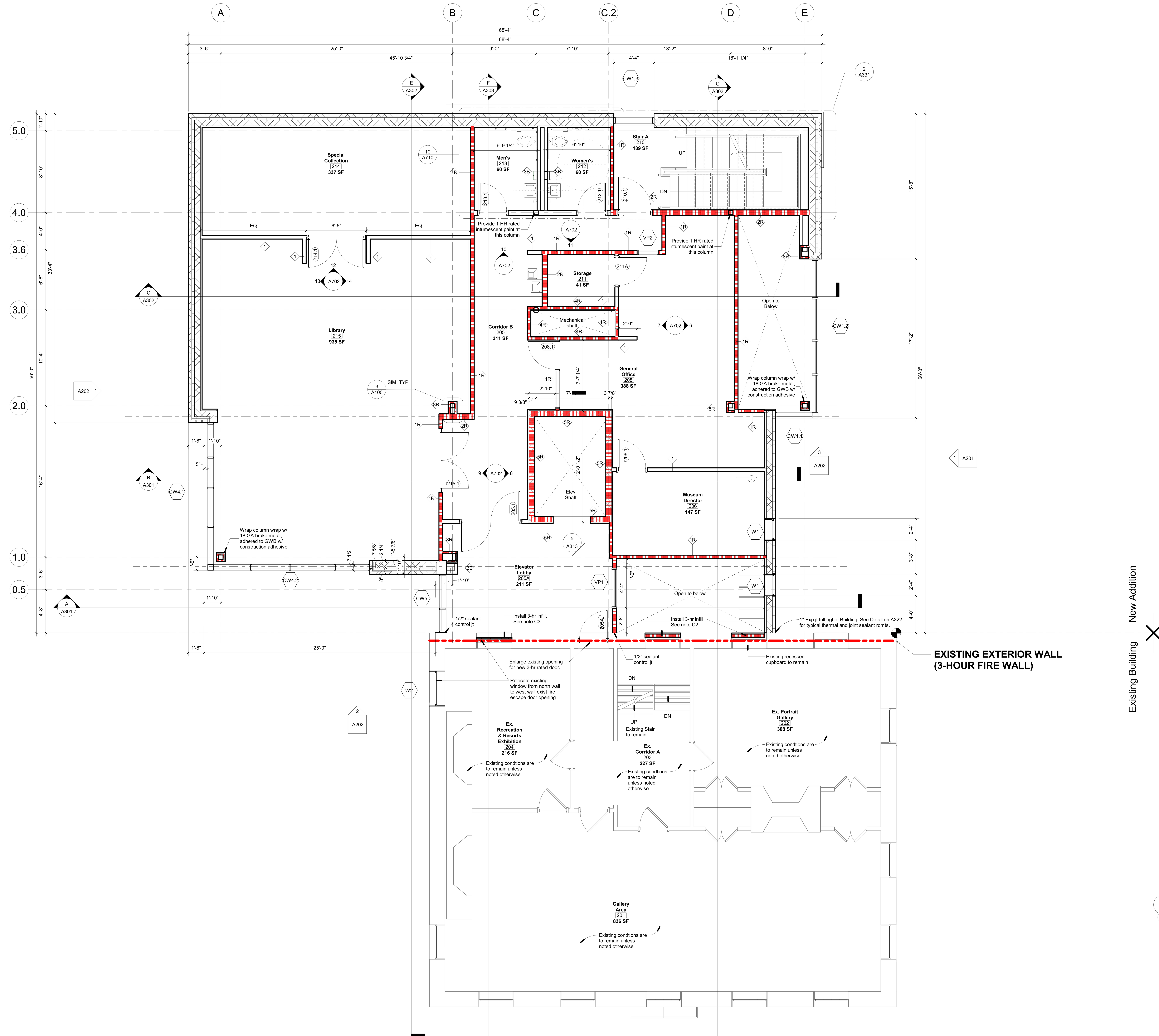
01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
1st Floor Construction Plan

PROJECT NUMBER 16.200
DRAWN BY MKSD
SCALE As indicated
DATE 01.26.23
DRAWING NUMBER **A101**



1 2nd Floor Construction Plan
1/4" = 1'-0"

CONSTRUCTION NOTES:

C1. Protect existing window to remain. Clean glass and infill opening with 3-hr fire rated shaftwall assembly (ptd grey) on existing building side of window. Recess infill approx 2" to "visually retain the opening location".

C2. Protect existing window to remain. Clean glass and infill opening with shaftwall assembly (ptd grey) on north side of window.

C3. Infill door opening with 3-hr fire rated shaftwall assembly centered on the depth of the existing wall (Gift Shop side) to "visually retain the opening location" on both sides. Restore jamb head and sill with 5/8" GWB ptd to match the adjacent room color.

C4. Install 5/8" GWB with paint finish direct attached to the existing wood lath and plaster at the exterior wall surface of the original the Stone Building - Stroud Mansion. (Typical where exposed to the interior of the new addition).

Deferred Owner no cost option:
After the removal of the wood frame building (1893 Addition), the Owner may elect to delete portions of the GWB & paint scheduled for exterior wall surface of the original the Stone Building (Mansion). The desire is to expose portions of the oringinal 1790, stuccoed stone, wall behind the wood lath-n-plaster finish of the 1893 addition. This owner decision will be decided if exposed THE CONDITION lends itself to being displayed with effort equal to or less than the value of the GWB furing scheduled.

General Project Notes:
-The building construction classification is Type 3A requiring 1-hr fire rated enclosure for all structural steel members. Refer to details for typical steel beam GWB protection and detail 3/A100 for column GWB protection required at all project locations

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01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
2nd Floor Construction Plan

PROJECT NUMBER
16.200

DRAWN BY
MKSD

SCALE
1/4" = 1'-0"

DATE
01.26.23

DRAWING NUMBER
A102

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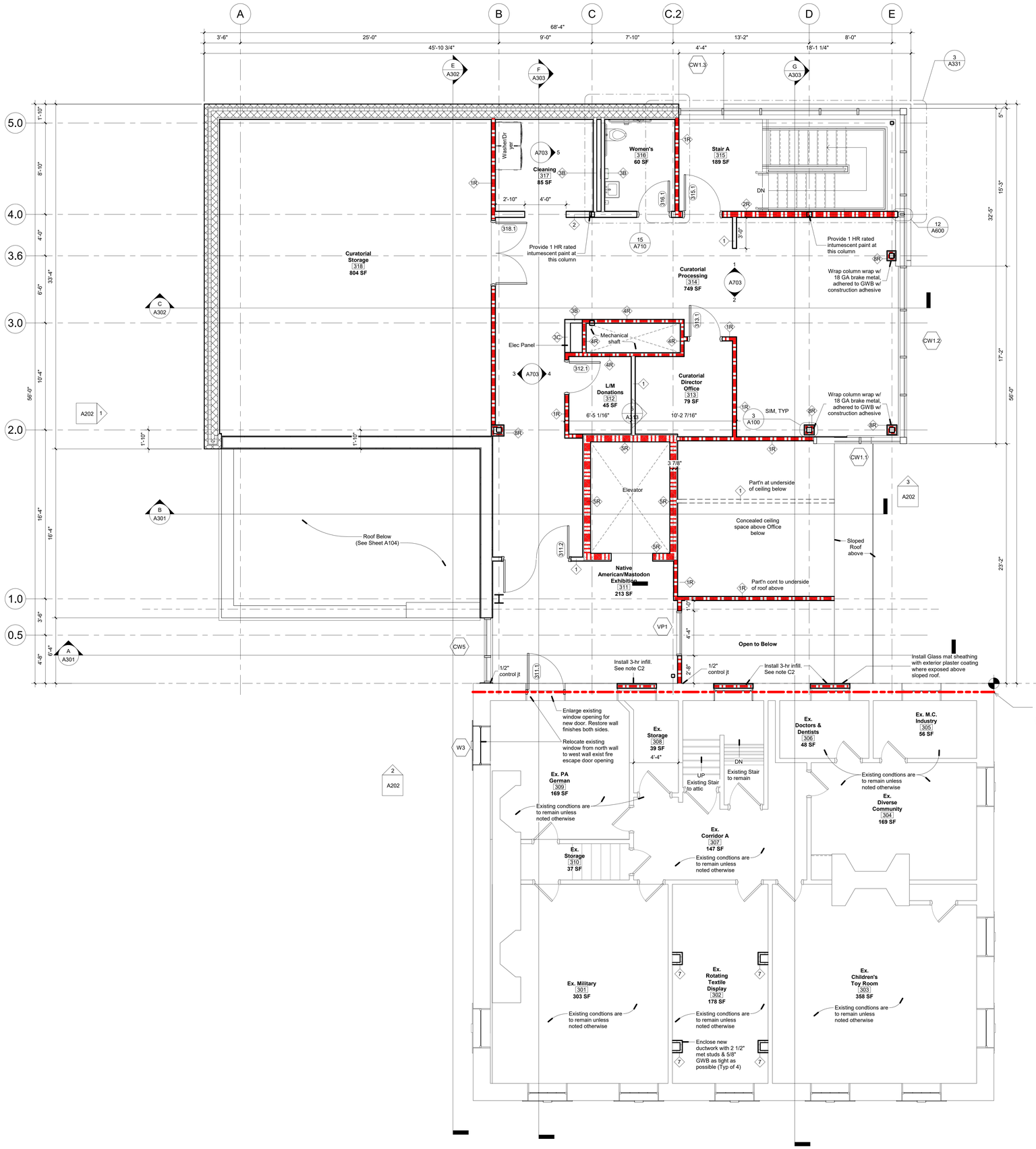

CONSTRUCTION NOTES:

C1. Protect existing window to remain. Clean glass and infill opening with 3-hr fire rated shaftwall assembly (ptd grey) on existing building side of window. Recess infill approx 2" to "visually retain the opening location".

C2. Protect existing window to remain. Clean glass and infill opening with shaftwall assembly (ptd grey) on north side of window.

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C4. Install 5/8" GWB with paint finish direct attached to the existing wood lath and plaster at the exterior wall surface of the original the Stone Building - Stroud Mansion. (Typical where exposed to the interior of the new addition).

Deferred Owner no cost option:
After the removal of the wood frame building (1893 Addition), the Owner may elect to delete portions of the GWB & paint scheduled for exterior wall surface of the original the Stone Building (Mansion). The desire is to expose portions of the oringinal 1790, stuccoed stone, wall behind the wood lath-n-plaster finish of the 1893 addition. This owner decision will be decided if exposed THE CONDITION lends itself to being displayed with effort equal to or less than the value of the GWB furing scheduled.

General Project Notes:
-The building construction classification is Type 3A requiring 1-hr fire rated enclosure for all structural steel members. Refer to details for typical steel beam GWB protection and detail 3/A100 for column GWB protection required at all project locations

1 3rd Floor Construction Plan
1/4" = 1'-0"

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REVISIONS

01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
3rd Floor Construction Plan

PROJECT NUMBER
16.200

DRAWN BY
MKSD

SCALE
1/4" = 1'-0"

DATE
01.26.23

DRAWING NUMBER
A103

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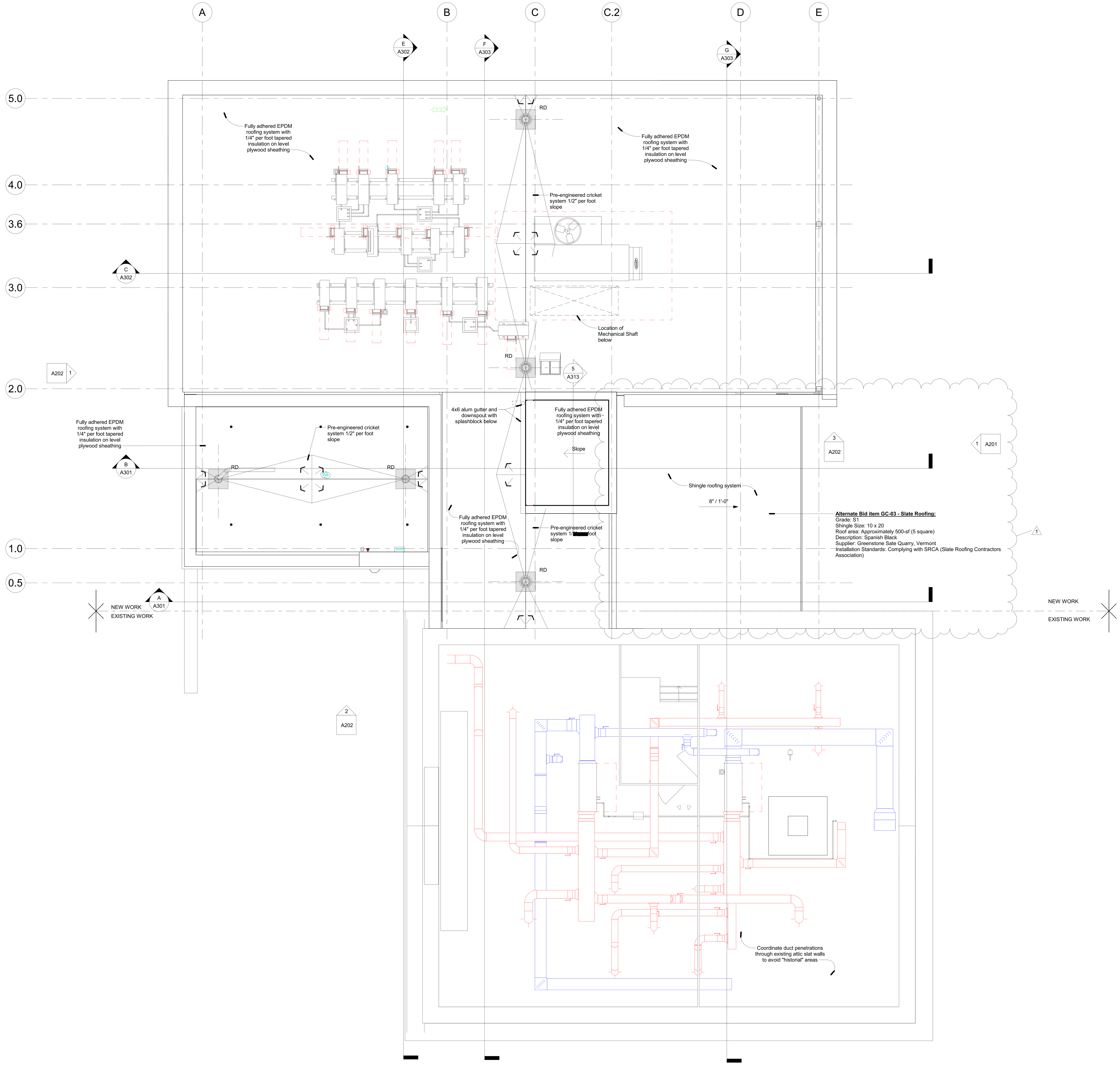

1 Roof Construction Plan

1/4" = 1'-0"

0' 2' 4' 8' 16'

N

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01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE

Roof Construction Plan

PROJECT NUMBER 16.200

DRAWN BY MKSD

SCALE 1/4" = 1'-0"

DATE 01.26.23

DRAWING NUMBER

A104

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Materials Legend Key

1A. CMU finish above grade: Mineral "Stucco" color coating with 12" x 24" joint articulation color and finish to match existing building exterior (Spec Section 09 9737). Basis of Design: Keim 'Universalputz' base coat and 2 finish coats of 'Concretal Pro Finish'. Stain articulation joints to match existing width and color.

1B. CMU finish in contact with grade: Mineral "Stucco" color coating (Spec Section 09 9737). Basis of Design: Basis of Design: Keim 'Universalputz' base coat and 2 finish coats of Concretal Pro Finish'.

1C. CIP Conc coating: Mineral "Stucco" color coating (Spec Section 09 9737). Basis of Design: Keim 'Contact Plus Grob' base coat and 2 finish coats of 'Concretal Pro Finish'.

2. 2" thick Pennsylvania bluestone panels with thermal finish. Provide 1/4" wide joints tooled with backer rod and sealant. Install 1/8" x 1" galv steel hooked strap anchors secured to CMU backup at 1/4 points of each stone panel. Recess CMU veneer backup 3/4" to provide bearing for stone panels. Face of Bluestone is to be 1 1/4" proud of CMU wall veneer.

3. Clear Anodized Aluminum Curtain Wall with ceramic fritted glass at select locations (refer to renderings for design intent).

4. 0.125" thick extruded aluminum cornice with Kynar finish.

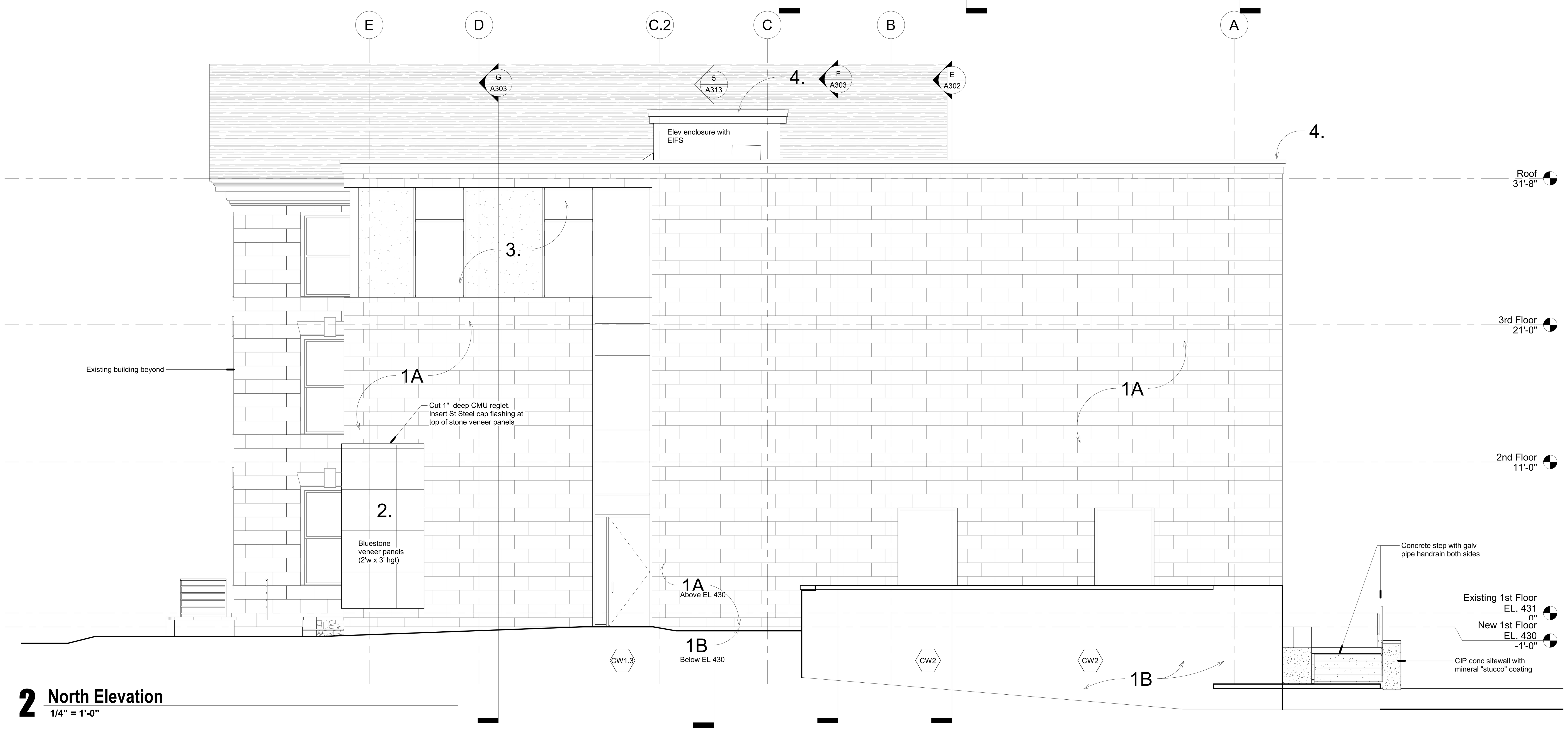
5. Horizontal Cement Board Siding with 6" nominal exposure.

6. Double Hung wood windows with true divided lites.

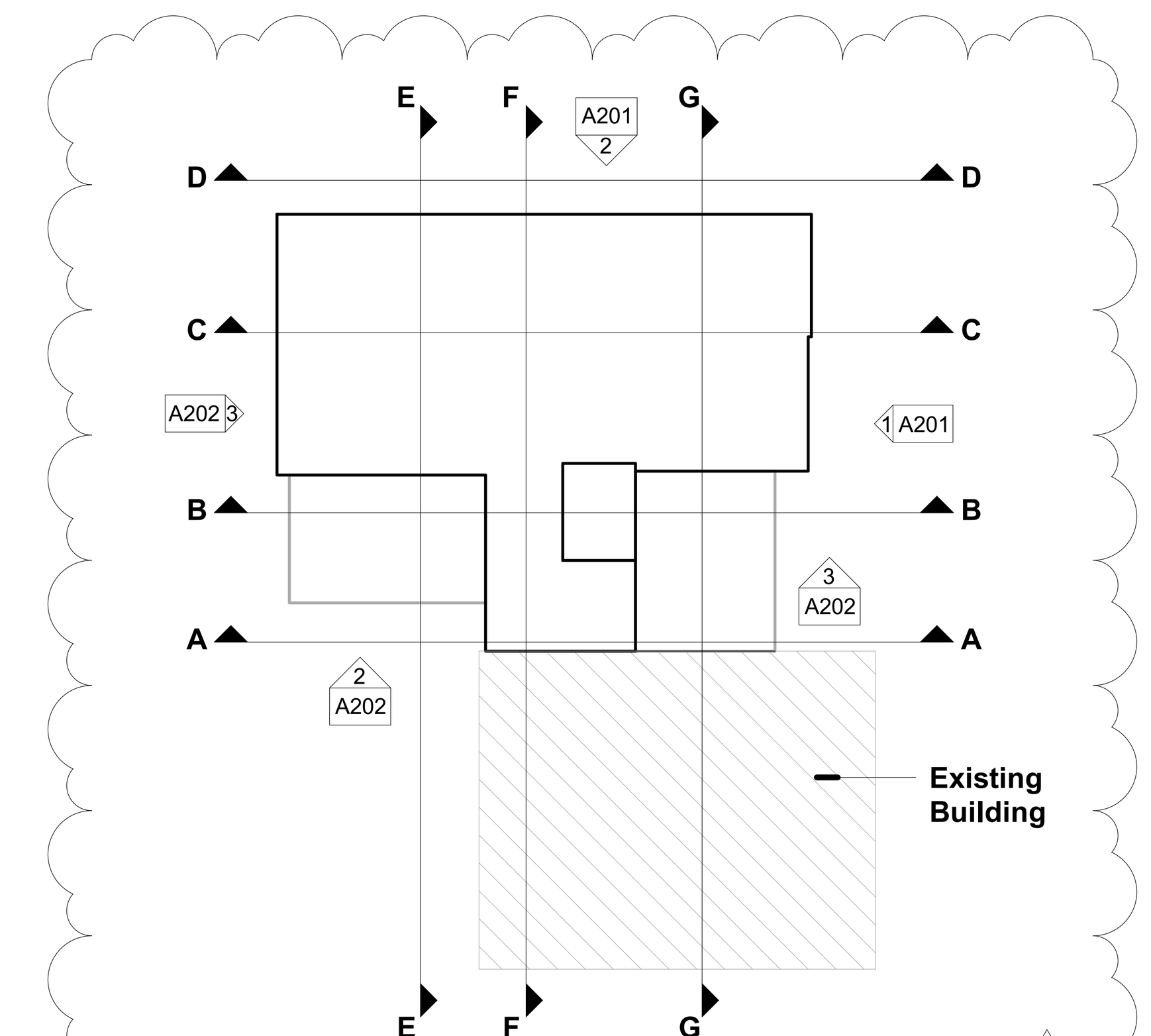
7. Slate Roof (Alternate Bid Item: Asphalt shingle roof that imitates slate).

8. Half-round gutter and downspout (aluminum with Kynar finish).

1 East Elevation
1/4" = 1'-0"



2 North Elevation
1/4" = 1'-0"



Building Elevation/Section Legend

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REVISIONS
01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
Building Elevations

PROJECT NUMBER
16.200

DRAWN BY
MKSD

SCALE
As indicated

DATE
01.26.23

DRAWING NUMBER
A201

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Materials Legend Key

1A. CMU finish above grade: Mineral "Stucco" color coating with 12" x 24" joint articulation color and finish to match existing building exterior (Spec Section 09 9737). Basis of Design: Keim 'Universalputz' base coat and 2 finish coats of 'Concretal Pro Finish'. Stain articulation joints to match existing width and color.

1B. CMU finish in contact with grade: Mineral "Stucco" color coating (Spec Section 09 9737). Basis of Design: Basis of Design: Keim 'Universalputz' base coat and 2 finish coats of Concretal Pro Finish'.

1C. CIP Conc coating: Mineral "Stucco" color coating (Spec Section 09 9737). Basis of Design: Keim 'Contact Plus Grob' base coat and 2 finish coats of 'Concretal Pro Finish'.

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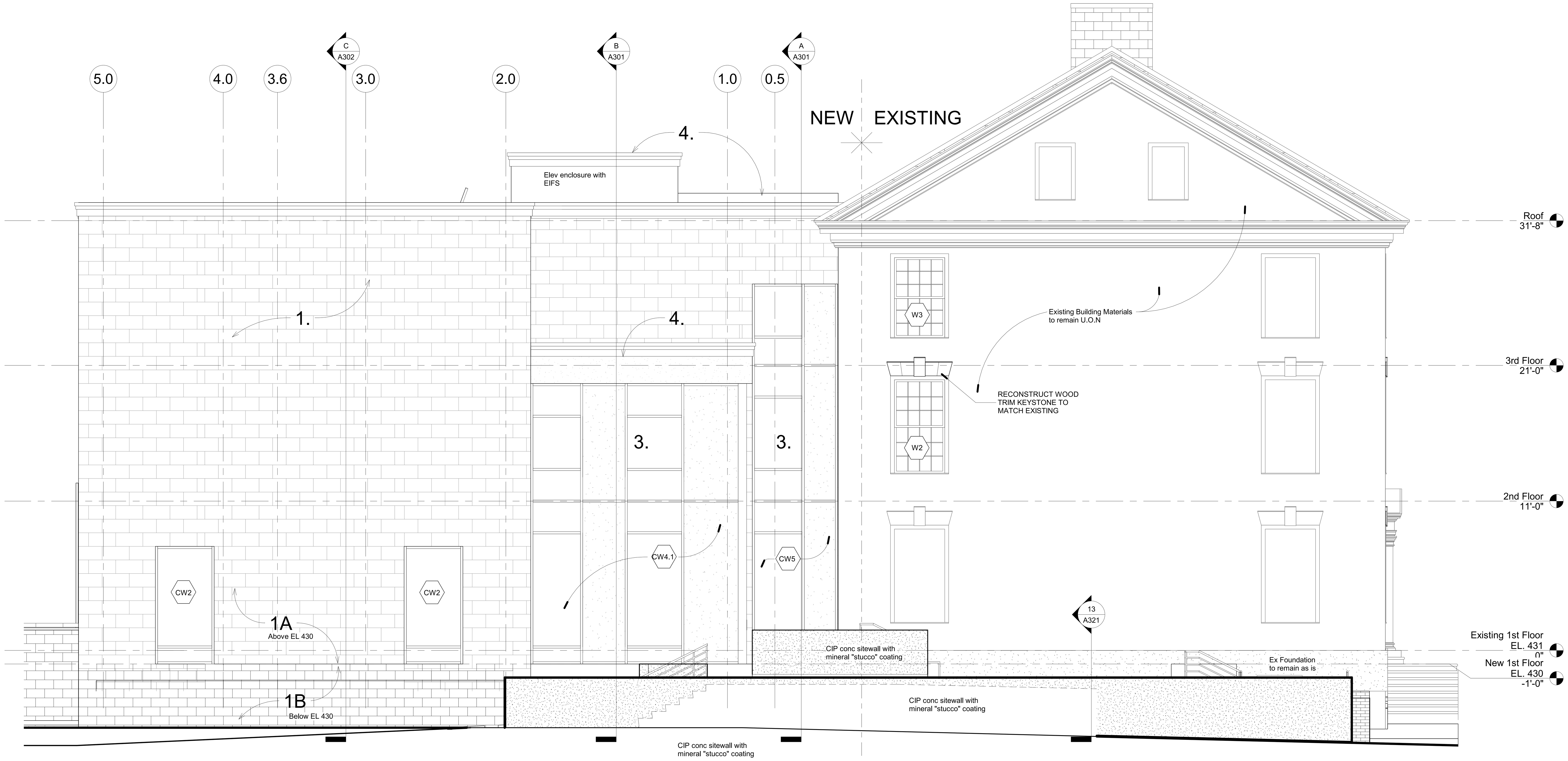
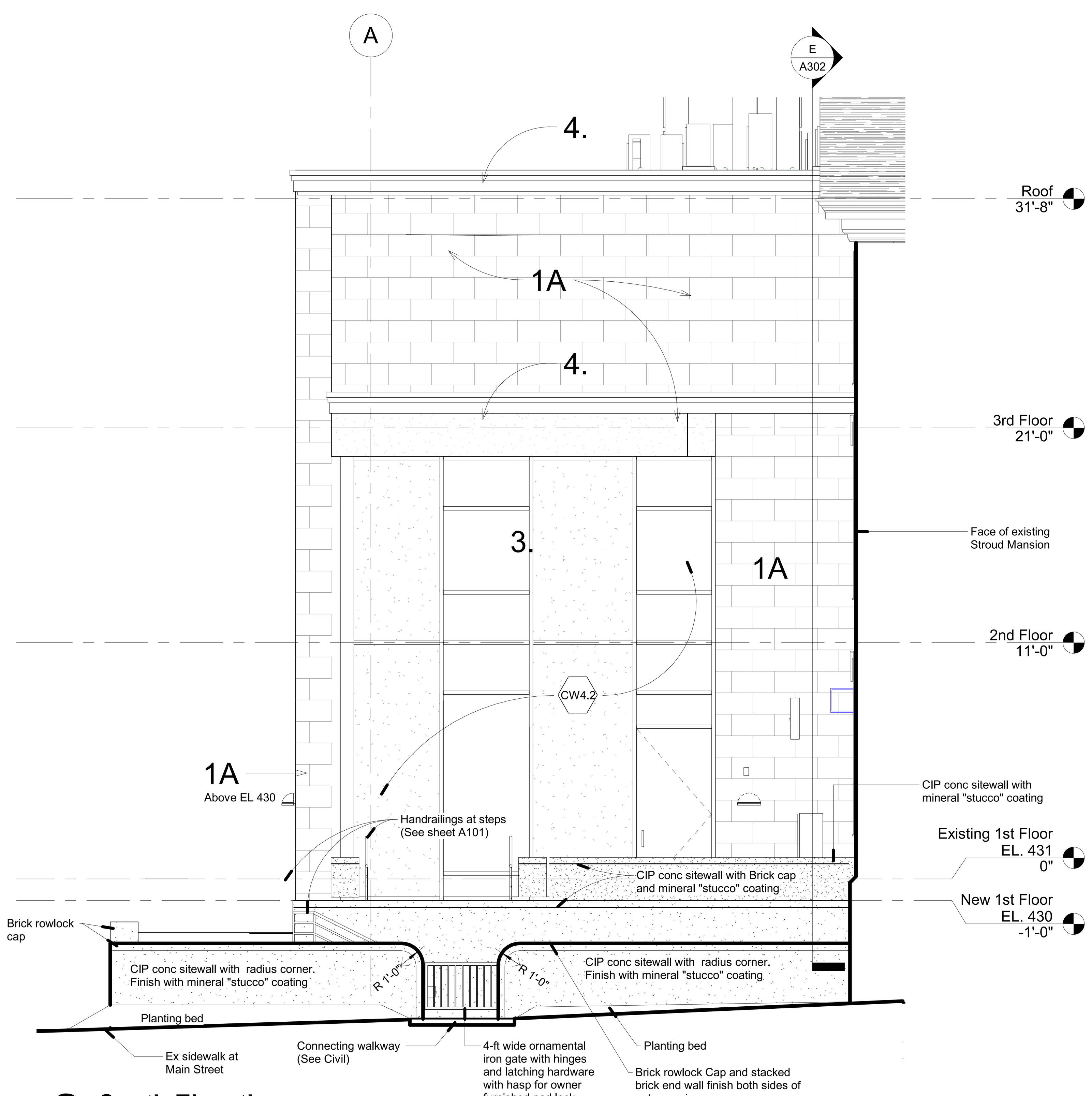
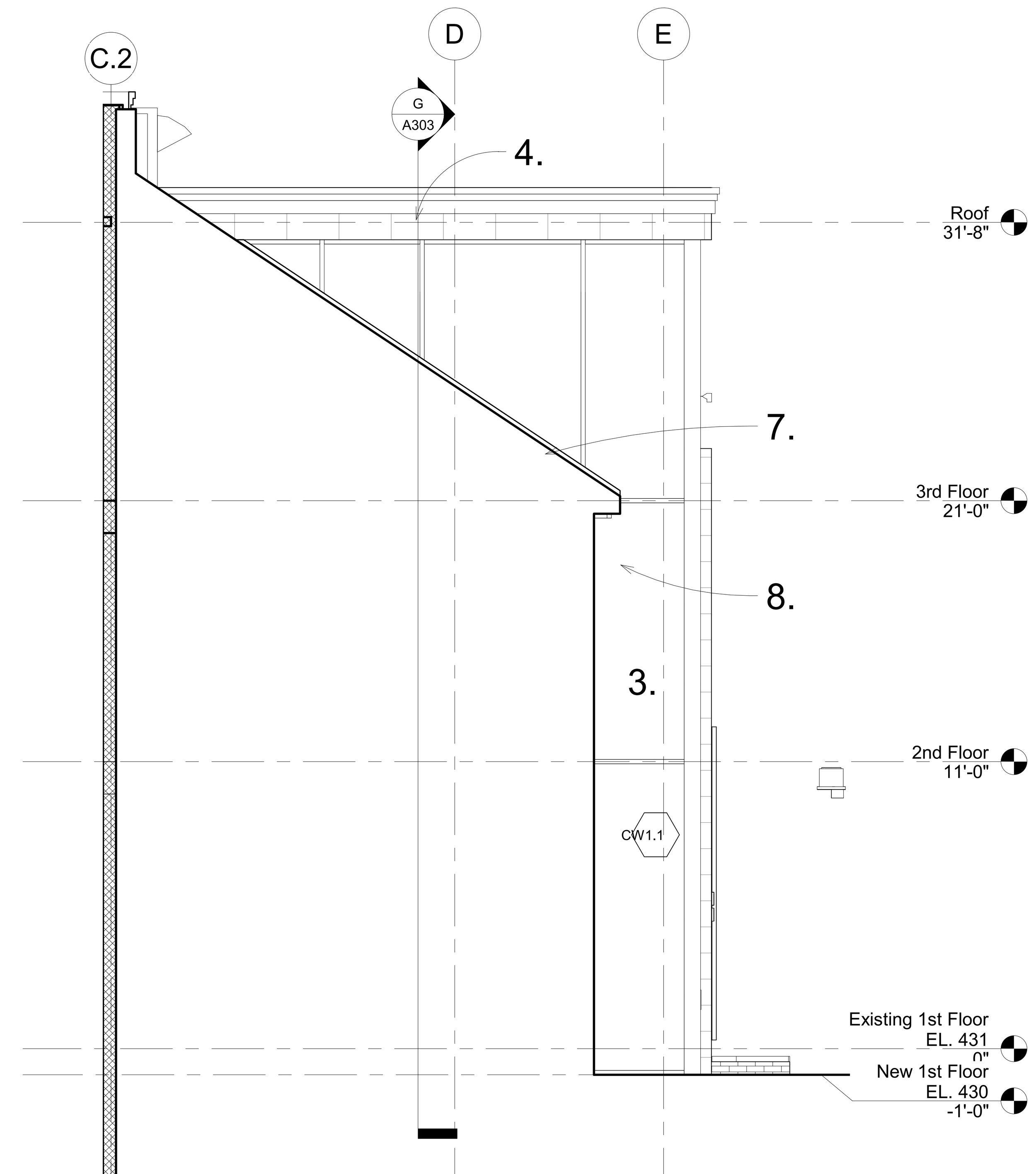
8. Half-round gutter and downspout (aluminum with Kynar finish).



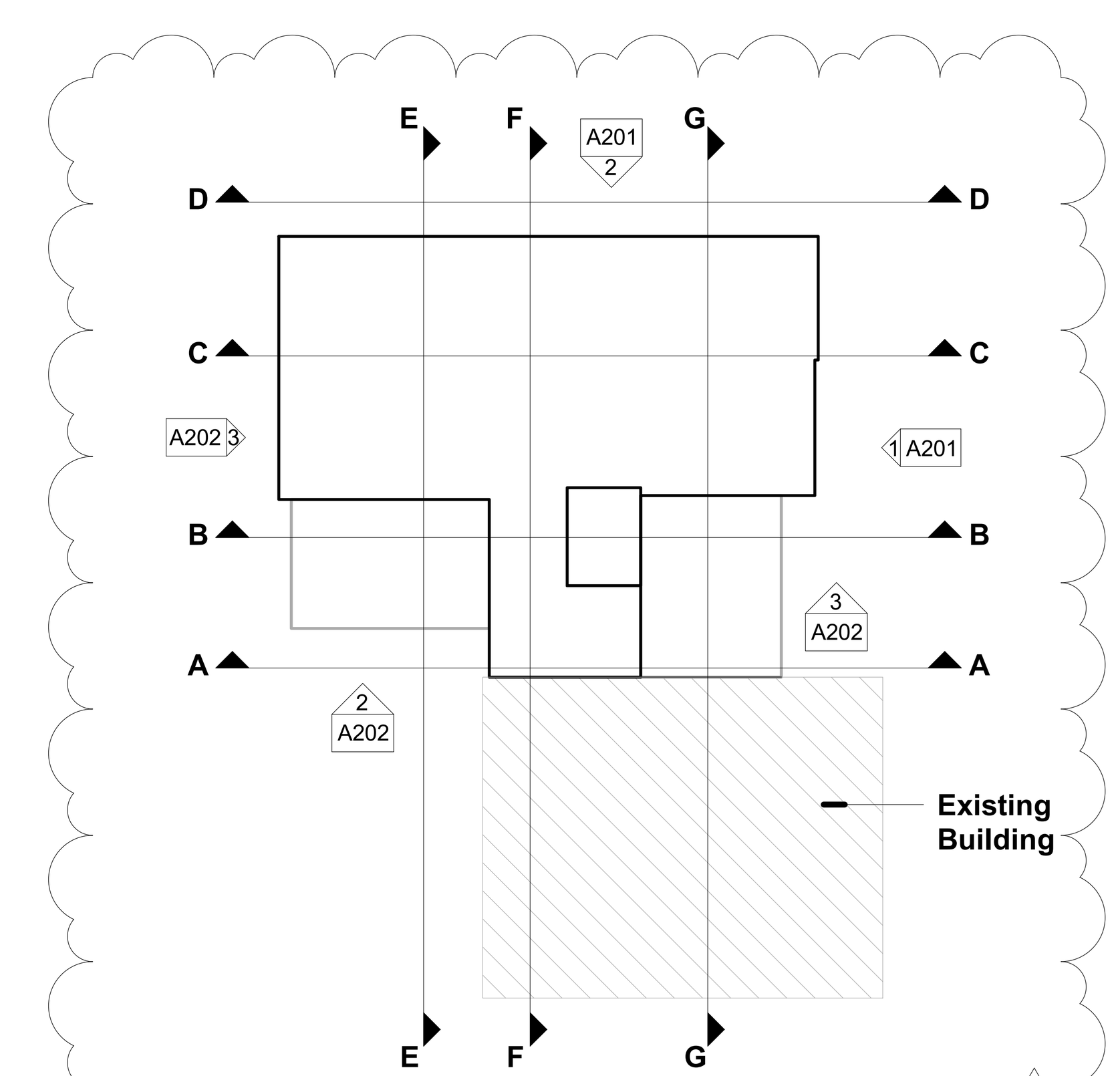
1 West Elevation
1/4" = 1'-0"



2 South Elevation
1/4" = 1'-0"



3 South Elevation - 9th Street
1/4" = 1'-0"



Building Elevation/Section Legend

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No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
Building Elevations

PROJECT NUMBER
16.200

DRAWN BY
MKSD

SCALE
As indicated

DATE
01.26.23

DRAWING NUMBER
A202

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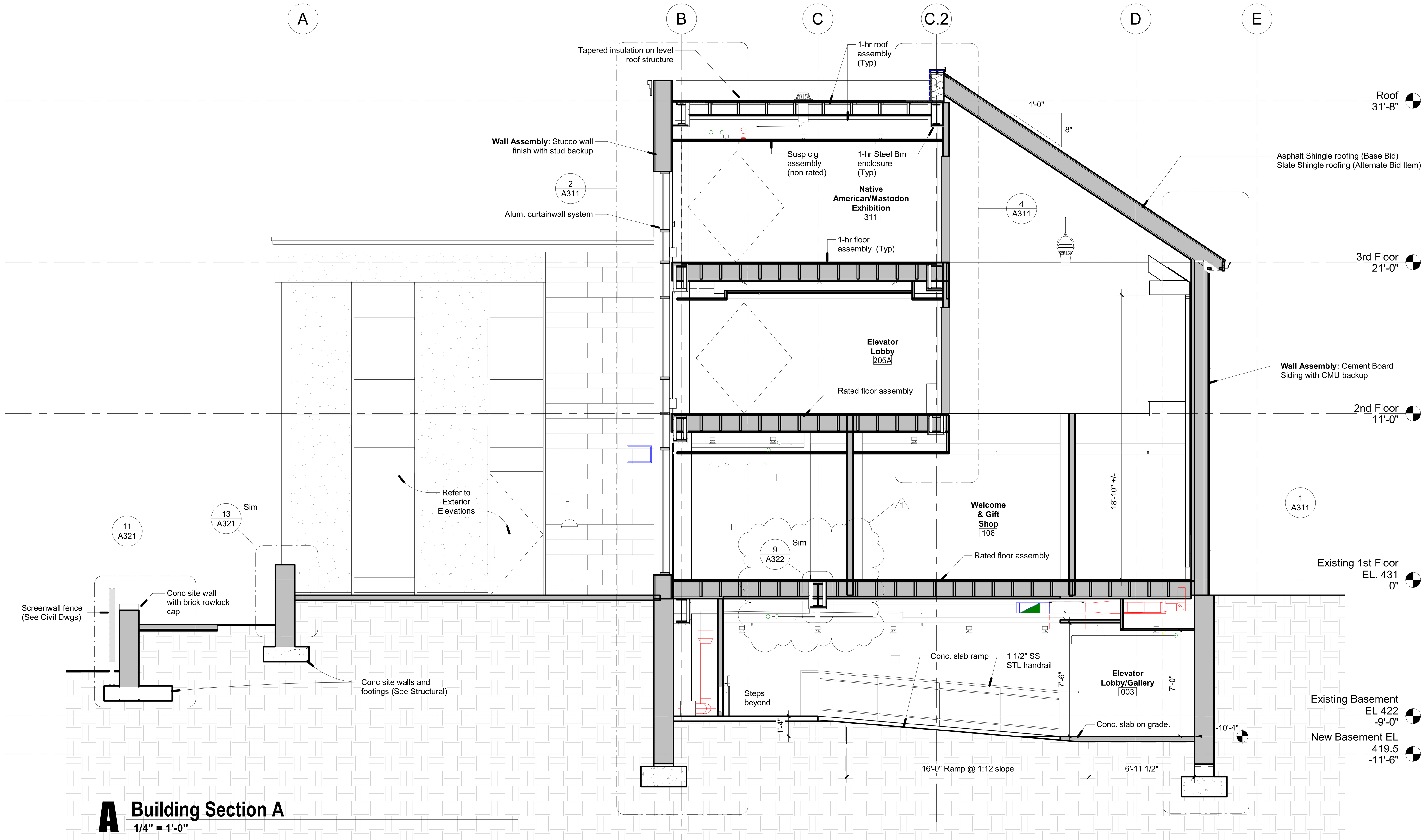
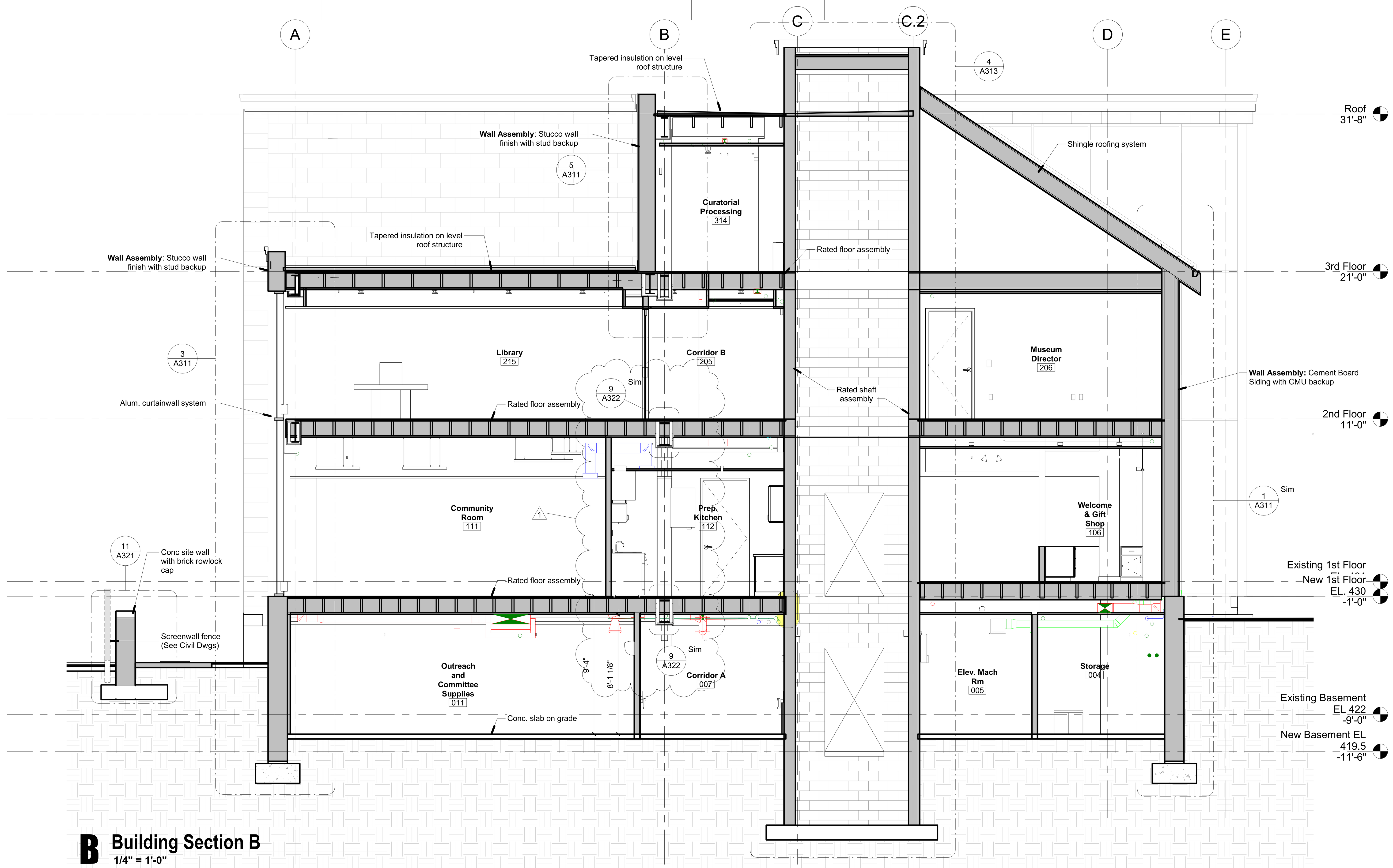


A Building Section A

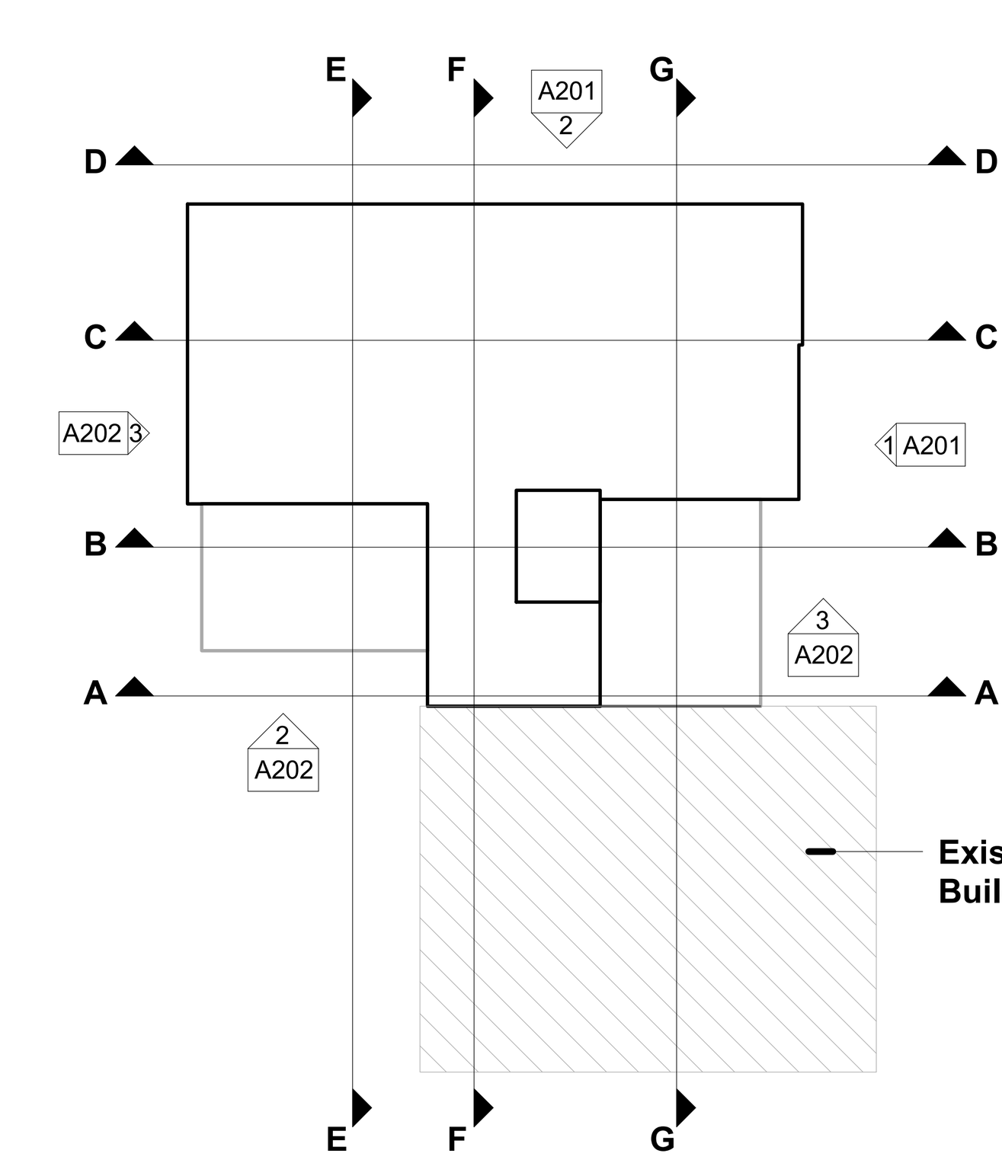
1/4" = 1'-0"



B Building Section B

1/4" = 1'-0"

General Project Notes:
-The building construction classification is Type 3A requiring 1-hr fire rated enclosure for all structural steel members. Refer to detail 9/A322 for typical steel beam GWB protection and detail 3/A100 for column GWB protection required at all project locations.



Building Elevation/Section Legend

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No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
Building Sections

PROJECT NUMBER
16.200

DRAWN BY
MKSD

SCALE
As indicated

DATE
01.26.23

DRAWING NUMBER
A301

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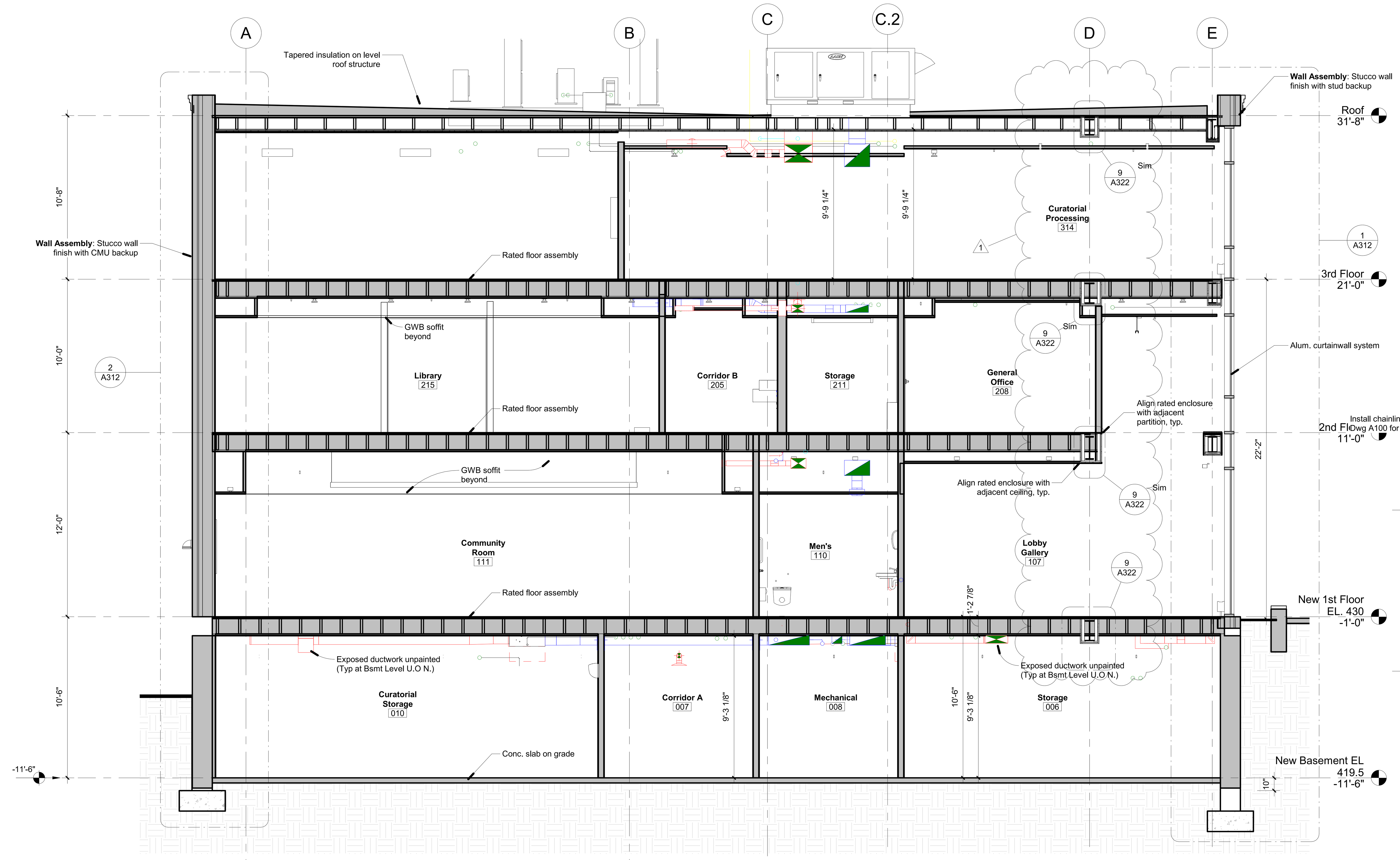
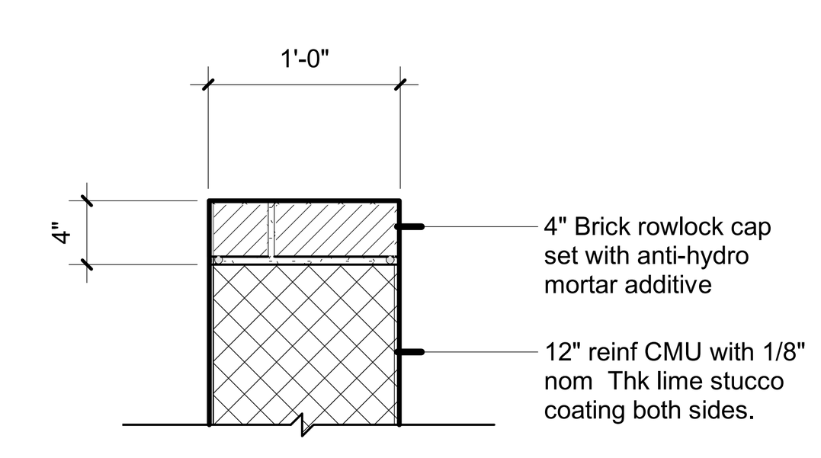
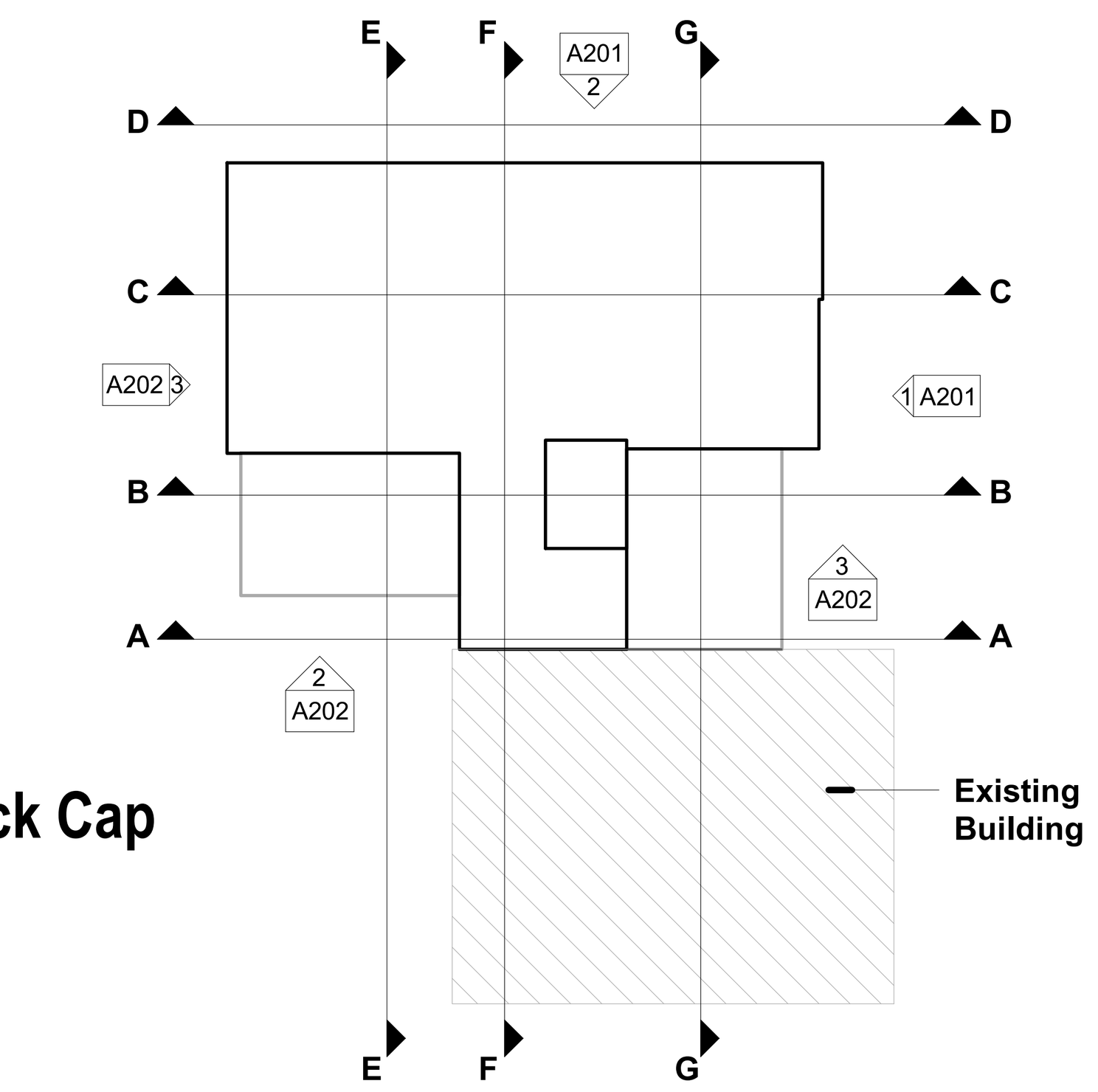


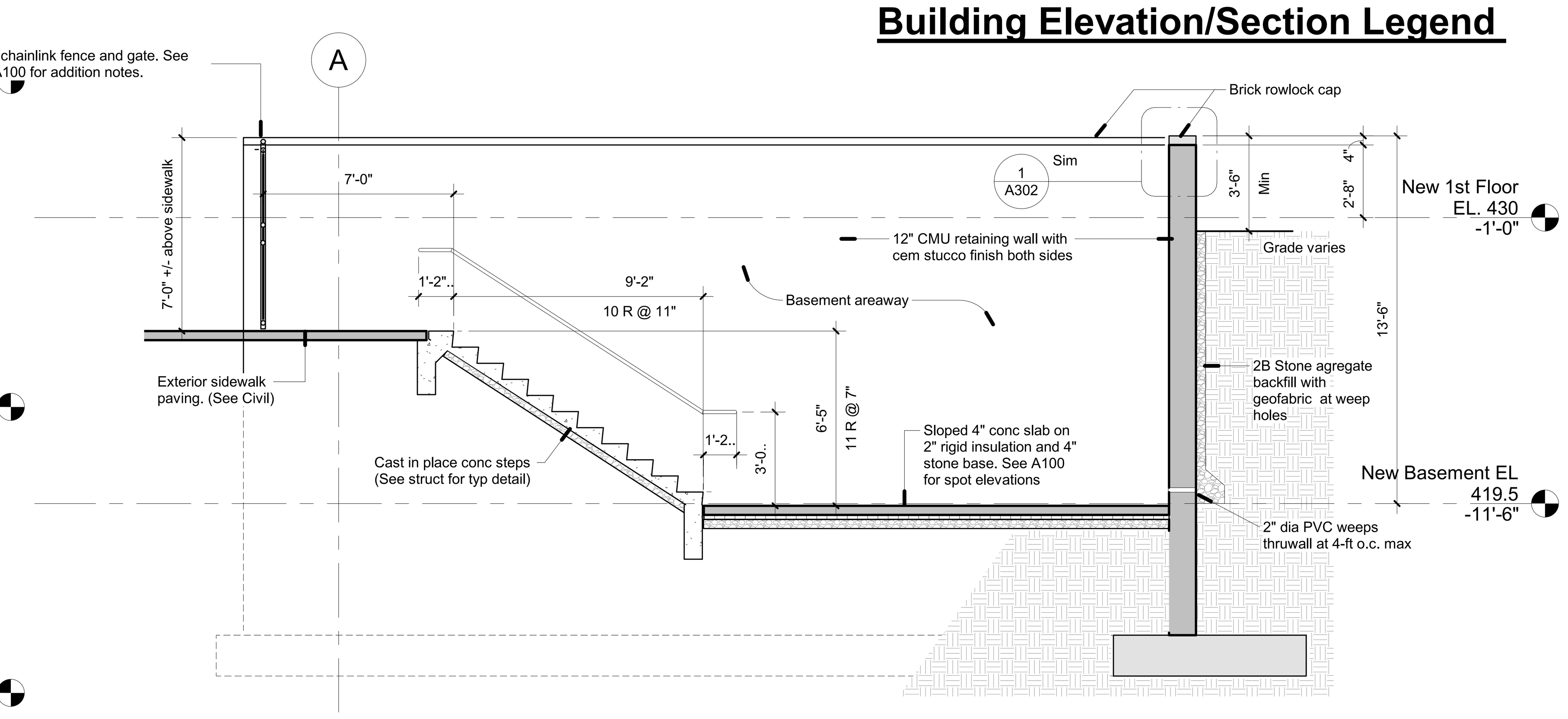
C Building Section C
1/4" = 1'-0"



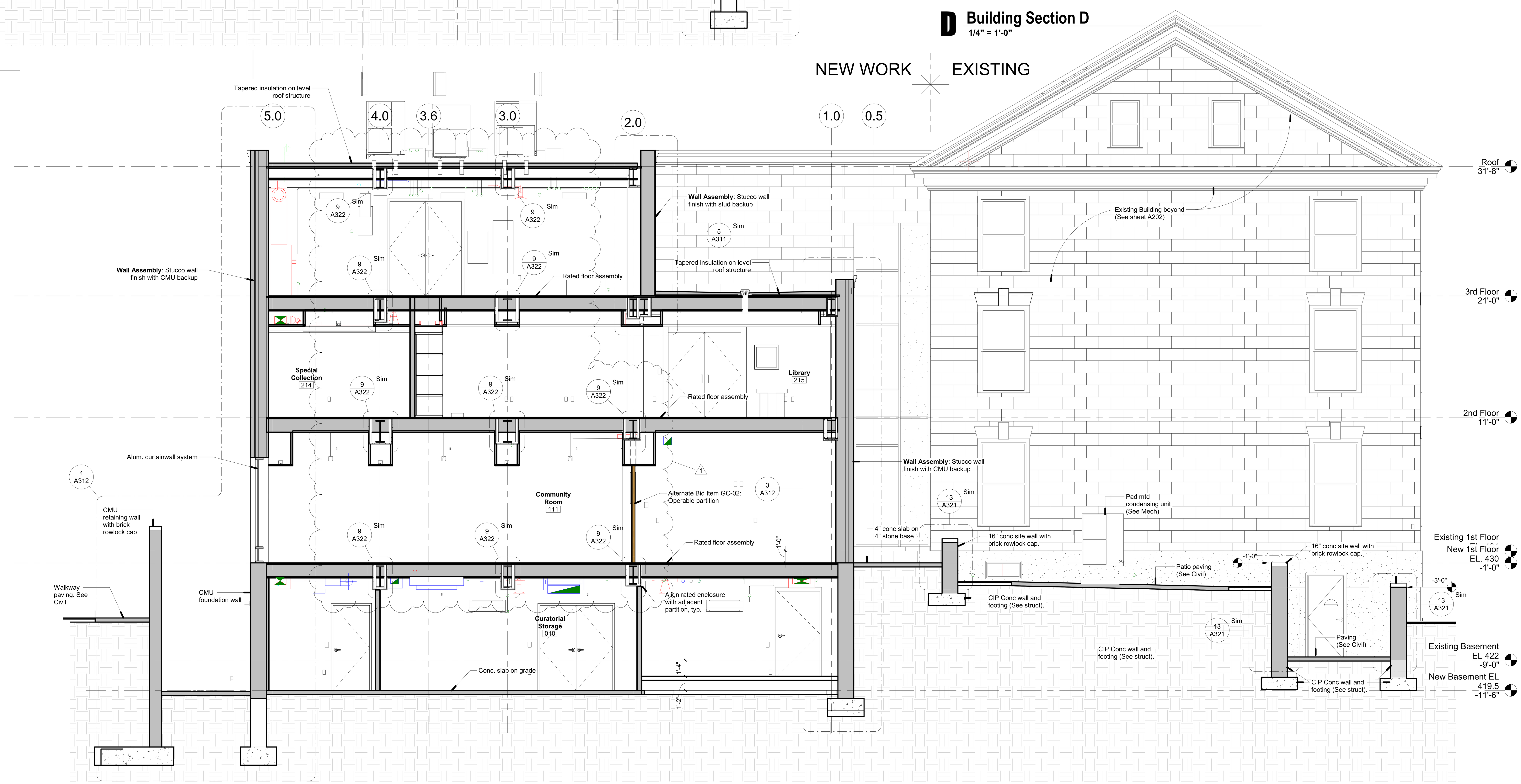
1 Section Detail - Areaway CMU Rowlock Cap
1" = 1'-0"



Building Elevation/Section Legend



D Building Section D
1/4" = 1'-0"



General Project Notes:
-The building construction classification is Type 3A requiring 1-hr fire rated enclosure for all structural steel members. Refer to detail 9/A322 for typical steel beam GWB protection and detail 3/A100 for column GWB protection required at all project locations.

E Building Section E
1/4" = 1'-0"

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DRAWING TITLE
Building Sections

PROJECT NUMBER
16.200

DRAWN BY
MKSD

SCALE
As indicated

DATE
01.26.23

DRAWING NUMBER
A302

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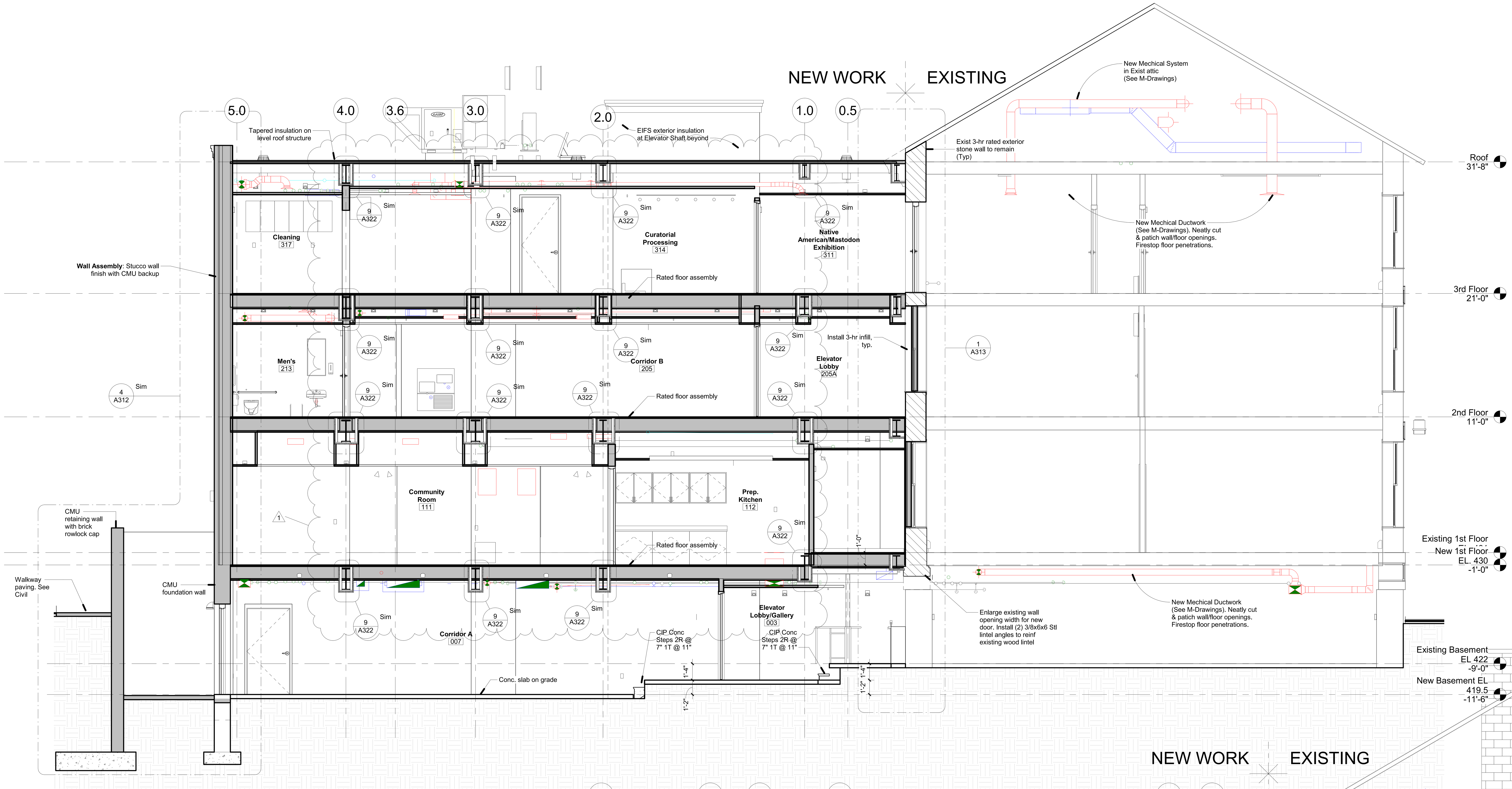
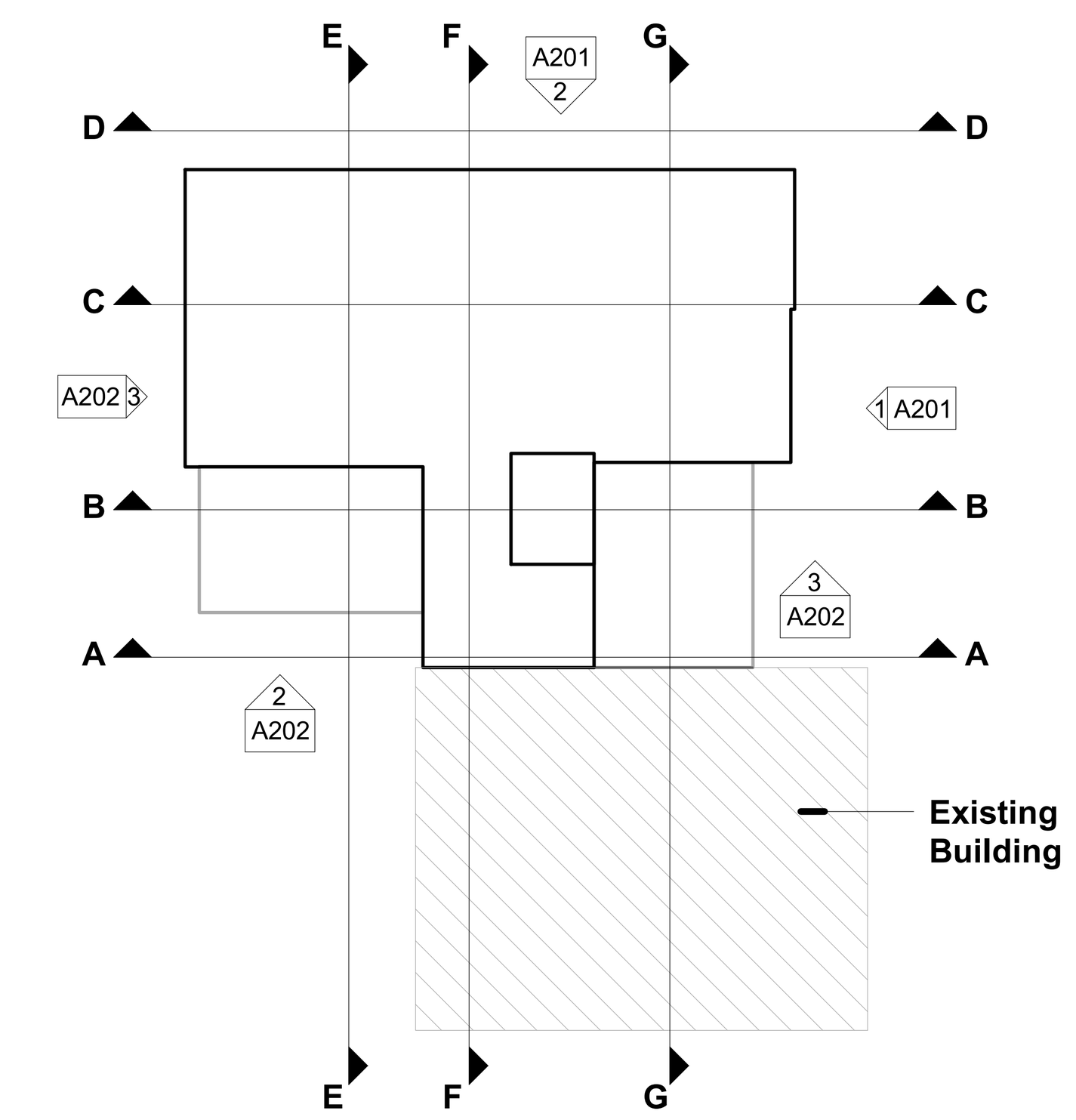
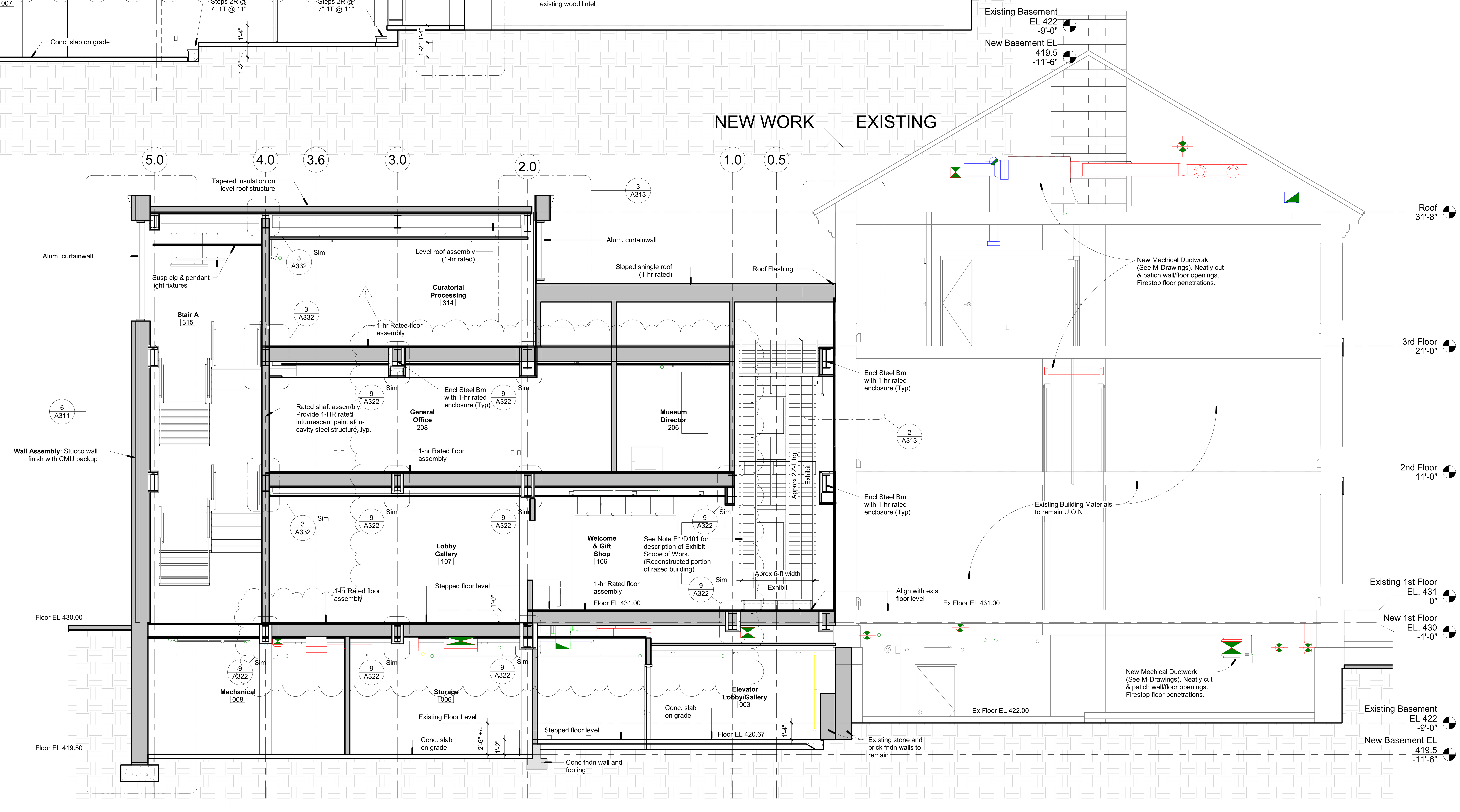


F Building Section F
1/4" = 1'-0"



Building Elevation/Section Legend

General Project Notes:
-The building construction classification is Type 3A requiring 1-hr fire rated enclosure for all structural steel members. Refer to detail 9/A322 for typical steel beam GWB protection and detail 3/A100 for column GWB protection required at all project locations.



G Building Section G
1/4" = 1'-0"

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No.	Date	Description
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DRAWING TITLE
Building Sections

PROJECT NUMBER
16.200

DRAWN BY
Author

SCALE
As indicated

DATE
01.26.23

DRAWING NUMBER
A303

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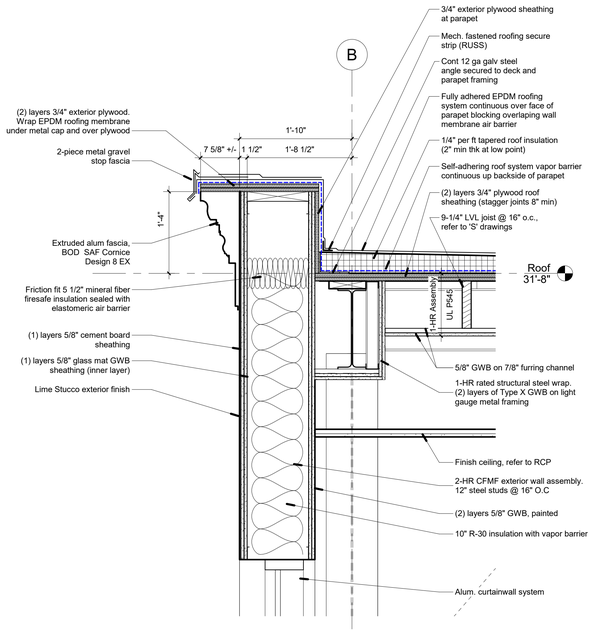
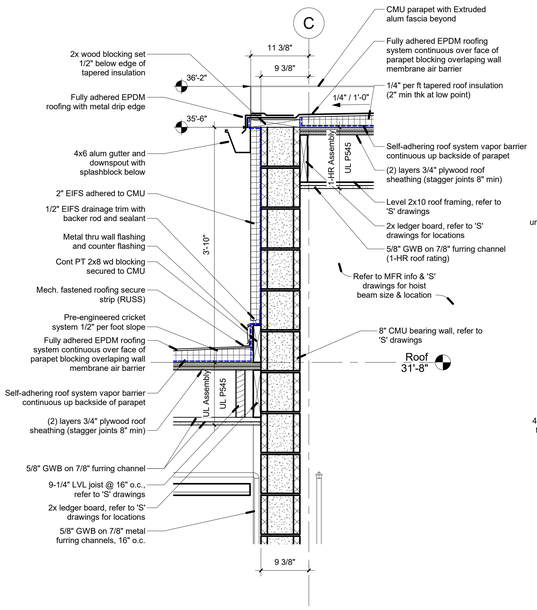


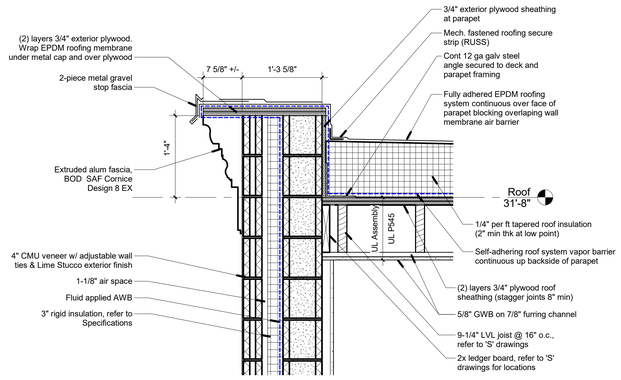
1 Section Detail - CFMF Parapet

1" = 1'-0"



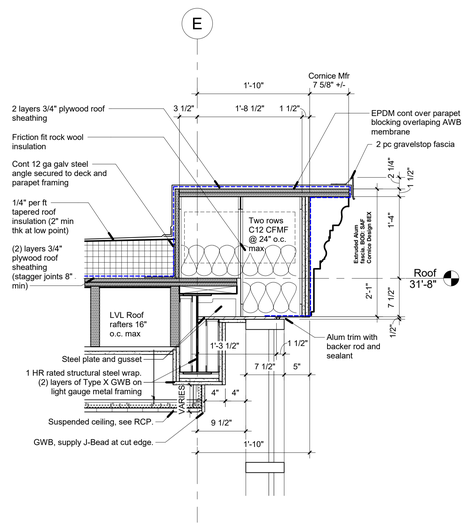
2 Section Detail - Elevator Shaft Parapet

1" = 1'-0"



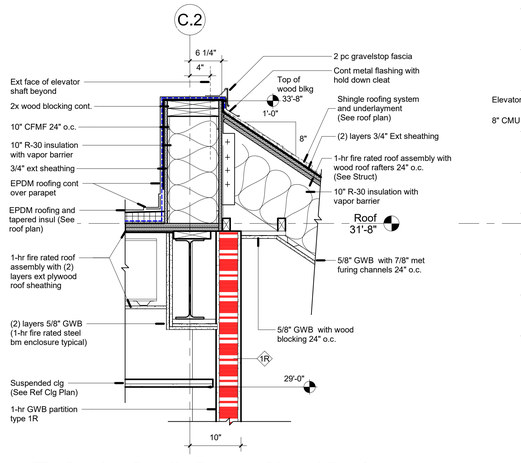
3 Section Detail - CMU Parapet

1" = 1'-0"



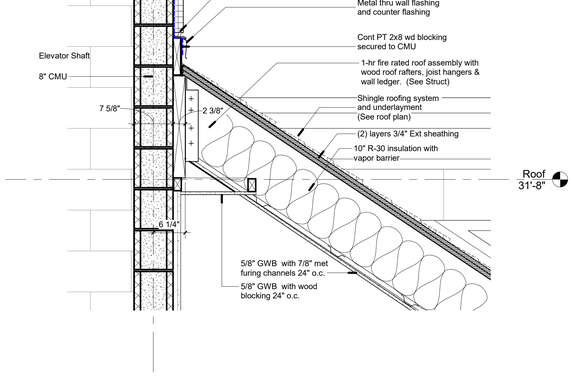
4 Section Detail - CFMF Parapet 2

1" = 1'-0"



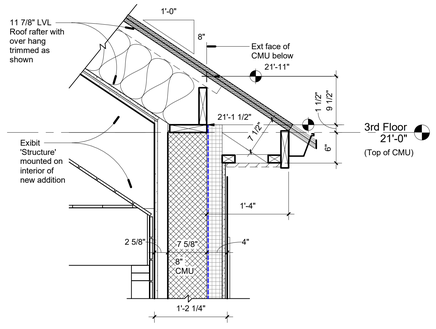
5 Section Detail - Parapet Sloped Roof

1" = 1'-0"



6 Section Detail - Sloped Roof @ Elevator

1" = 1'-0"

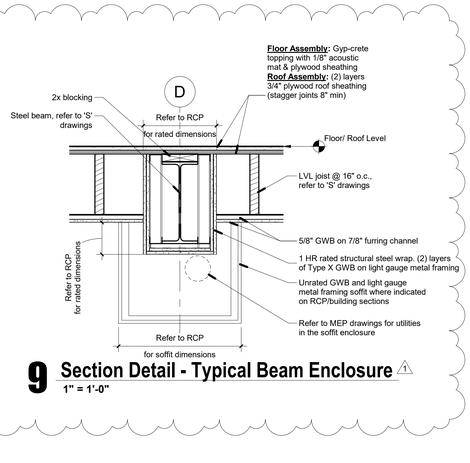


7 Section Detail - Pitched Roof

1" = 1'-0"

8 Section Detail - Roof/ Floor Transition

1" = 1'-0"



9 Section Detail - Typical Beam Enclosure

1" = 1'-0"

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SEAL

Monroe County Historical Association Alteration & Heritage Center Addition

900 Main Street - Stroudsburg, PA 18360

REVISIONS

01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE

Section Details

PROJECT NUMBER 16.200

DRAWN BY Author

SCALE 1" = 1'-0"

DATE 01.26.23

DRAWING NUMBER

A322

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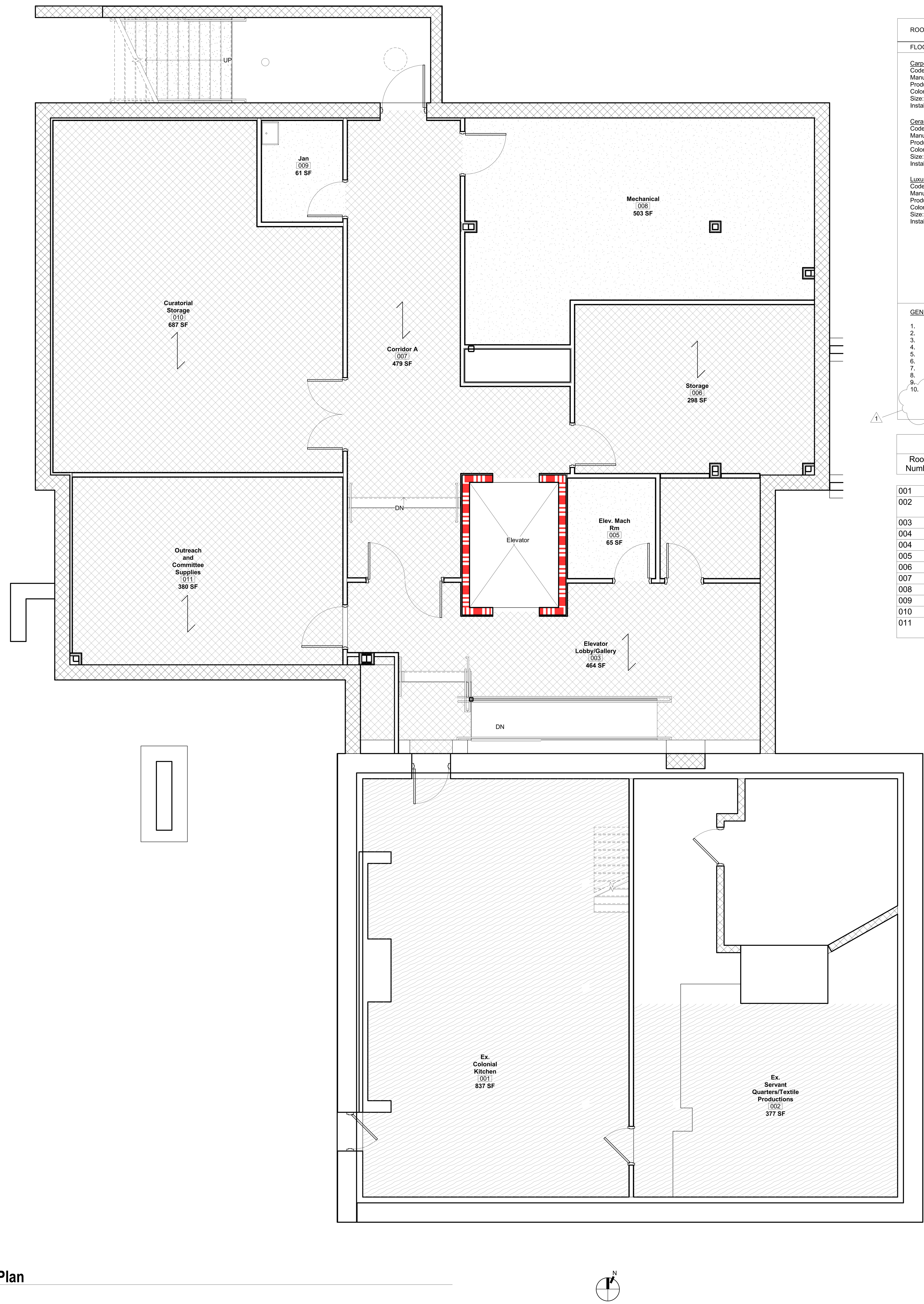


1 Basement Finish Plan

1/4" = 1'-0"

ROOM FINISH SCHEDULE LEGEND

FLOORING

Carpet Tile Flooring (CPT)
Code: CPT-1
Manufacturer: Mannington
Product: Teres
Color: Cashmere 12220
Size: 24" x 24"
Installation: Ashlar, monolithic pattern

Ceramic Tile Flooring (CT)
Code: CT-1
Manufacturer: Daltile
Product: Imagica
Color: Vision IG95, Light Polished
Size: 12" x 24"
Installation: Ashlar

Luxury Vinyl Flooring (LVT)
Code: LVT-1
Manufacturer: Interface
Product: Level Set - Natural Woodgrains
Color: A00207 Washed Wheat
Size: 25cm x 1m
Installation: Ashlar

Rubber Wall Base (RWB)
Code: RWB-1
Manufacturer: Roppe
Product: Pinnacle series
Size: 4" Standard Toe
Color: 639 Beigewood

Wood Base (WD)
Code: WD-1
Species: Paint Grade Poplar
Color: PT-1, see finish schedule
Size: 3/4", see WOOD BASE WD-1 diagram, below

Ceramic Tile Base (CTB)
Code: CTB-1
Manufacturer: Daltile
Product: Imagica
Color: Vision IG95, Light Polished
Size: 6"x12" Cove Base

Rubber Stair Treads & Risers (STR)
Code: STR-1
Manufacturer: Roppe
Product: #92 Low Profile Raised Circular Design
Color: 639 Beigewood

WALLS

Paint (PT)
Code: PT-1
Manufacturer: Sherwin Williams
Color: Greek Villa (SW 7551)

Ceramic Wall Tile (CWT)
Code: CWT-1
Manufacturer: Daltile
Product: Trellis Oak
Color: Brown Blend Rectangle Chevron TR24, Matte
Size: 18" x 36"
Installation: Stacked

Wood Veneer Panel (WVP)
Code: WVP-1
Species: Maple veneer (1/2" panel)
Color: Clear transparent finish to be selected by Architect

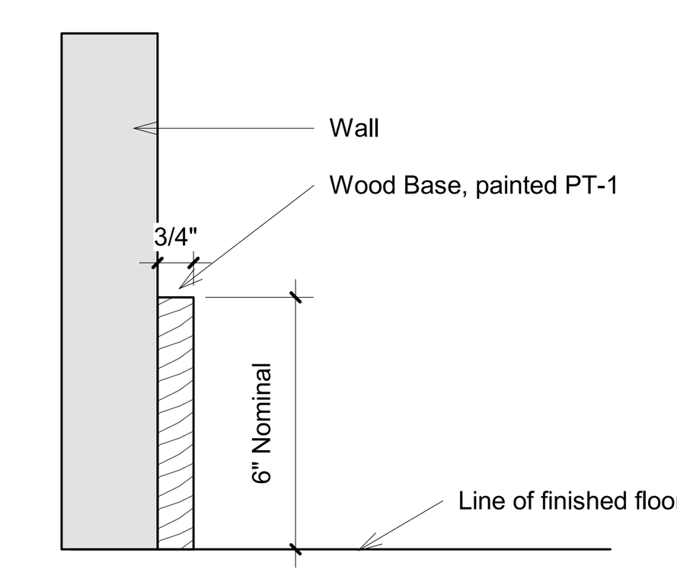
OTHER

High Pressure Laminate (PLAM)
Code: PLAM-1
Manufacturer: Wilsonart
Color: Fawn Cypress

Quartz (QTZ)
Code: QTZ-1
Manufacturer: Wilsonart
Color: Haida

Solid Surface (SS)
Code: SS-1
Manufacturer: Wilsonart
Color: Moon Geyser

Door Stain (STN)
Code: STN-1
Manufacturer: Masonite Architectural
Color: Plain Sliced White Maple, Clear Finish



WOOD BASE WD-01

GENERAL NOTES:

1. North in Finish Schedule relates to North on plans.
2. Vision panel frames to be painted to match door frames.
3. Provide ADA compliant thresholds at flooring material changes as required.
4. Align floor material transitions with center of door panels.
5. All soffits to be painted with flat sheen. All sides and underside of soffits to be painted the same color.
6. All paint in toilet rooms to be epoxy paint.
7. See finish plans and elevations for accent paint color locations.
8. Paint all sides of pilasters same color.
9. Install finish end panels to all exposed surfaces of casework.
10. Mechanical and Electrical cut and restoration of the substrate surface is to be performed by the trade requiring access. Finish coat of plaster/spackle and paint matching adjacent existing color is to be performed by Div 09 trades. Refer to section 01 7329 for additional requirements

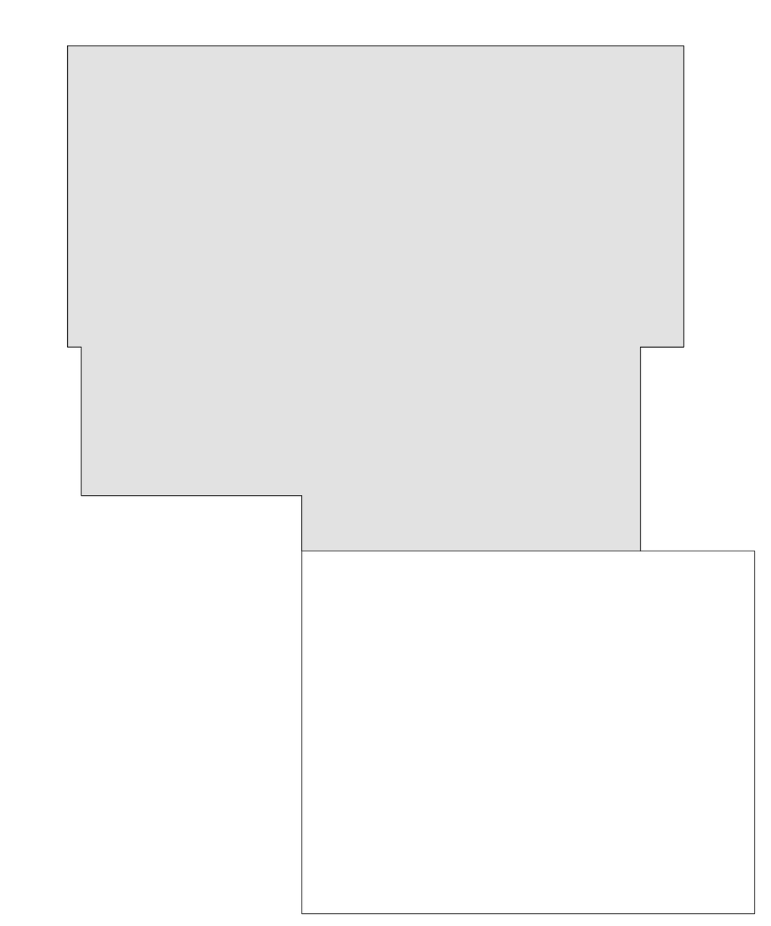
1

Finish Schedule Basement

Room Number	Room Name	Floor Finish	Base Finish	Wall Finish
001	Ex. Colonial Kitchen	EX.	EX.	EX.
002	Ex. Servant Quarters/Textile Productions	EX.	EX.	EX.
003	Elevator Lobby/Gallery	LVT-1	RWB-1	PT-1
004	Mech Equip	SC	RWB-1	PT-1
004	Storage	LVT-1	RWB-1	PT-1
005	Elev. Mach Rm	SC	RWB-1	PT-1
006	Storage	LVT-1	RWB-1	PT-1
007	Corridor A	LVT-1	RWB-1	PT-1
008	Mechanical	SC	RWB-1	PT-1
009	Jan	SC	RWB-1	PT-1
010	Curatorial Storage	LVT-1	RWB-1	PT-1
011	Outreach and Committee Supplies	LVT-1	RWB-1	PT-1

Material Legend

- CPT-1
- SC
- LVT-1
- EX
- CT-1
- CT-2
- CWT - SEE FINISH SCHEDULE
- ASHLAR INSTALL DIRECTION



KEY PLAN
= scope of work

MKSD architects

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Todd O. Chambers, AIA, NCARB
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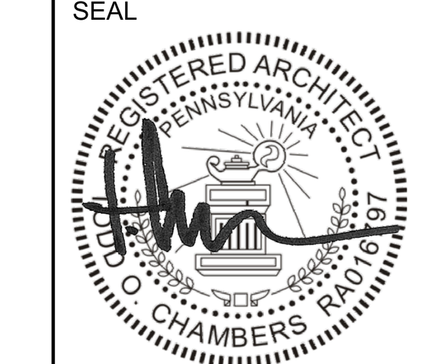

Monroe County Historical Association
Alteration & Heritage Center Addition
900 Main Street - Stroudsburg, PA 18360

REVISIONS

01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
Basement Finish Plan and Details

PROJECT NUMBER
16.200

DRAWN BY
Author

SCALE
As indicated

DATE
01.26.23

DRAWING NUMBER
A500

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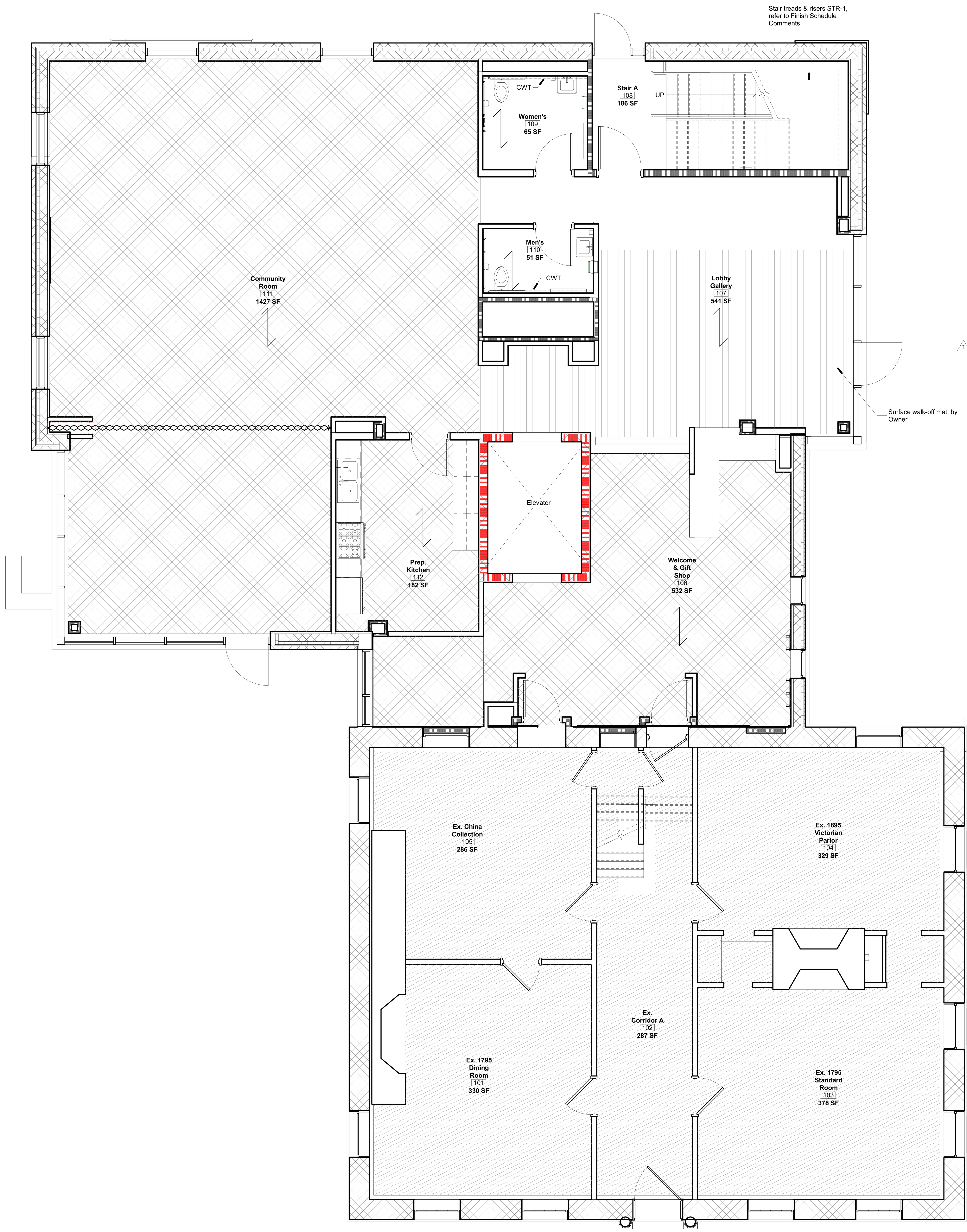


1 1st Floor Finish Plan

1/4" = 1'-0"

ROOM FINISH SCHEDULE LEGEND

FLOORING

Carpet Tile Flooring (CPT)
Code: CPT-1
Manufacturer: Mannington
Product: Teres
Color: Cashmere 12220
Size: 24" x 24"
Installation: Ashlar, monolithic pattern

Ceramic Tile Flooring (CT)
Code: CT-1
Manufacturer: Daltile
Product: Imagica
Color: Vision IG95, Light Polished
Size: 12" x 24"
Installation: Ashlar

Luxury Vinyl Flooring (LVT)
Code: LVT-1
Manufacturer: Interface
Product: Level Set - Natural Woodgrains
Color: A00207 Washed Wheat
Size: 25cm x 1m
Installation: Ashlar

Rubber Wall Base (RWB)
Code: RWB-1
Manufacturer: Roppe
Product: Pinnacle series
Size: 4" Standard Toe
Color: 639 Beigewood

Wood Base (WD)
Code: WD-1
Species: Paint Grade Poplar
Color: PT-1, see finish schedule
Size: 3/4", see WOOD BASE WD-1 diagram, below

Ceramic Tile Base (CTB)
Code: CTB-1
Manufacturer: Daltile
Product: Imagica
Color: Vision IG95, Light Polished
Size: 6"x12" Cove Base

Rubber Stair Treads & Risers (STR)
Code: STR-1
Manufacturer: Roppe
Product: #92 Low Profile Raised Circular Design
Color: 639 Beigewood

WALLS

Paint (PT)
Code: PT-1
Manufacturer: Sherwin Williams
Color: Greek Villa (SW 7551)

Ceramic Wall Tile (CWT)
Code: CWT-1
Manufacturer: Daltile
Product: Trellis Oak
Color: Brown Blend Rectangle Chevron TR24, Matte
Size: 18" x 36"
Installation: Stacked

Wood Veneer Panel (WVP)
Code: WVP-1
Species: Maple veneer (1/2" panel)
Color: Clear transparent finish to be selected by Architect

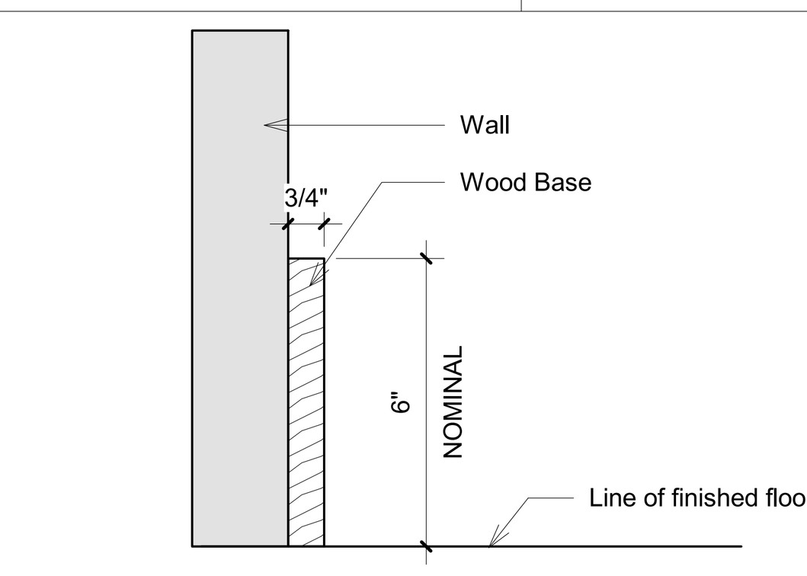
OTHER

High Pressure Laminate (PLAM)
Code: PLAM-1
Manufacturer: Wilsonart
Color: Fawn Cypress

Quartz (QTZ)
Code: QTZ-1
Manufacturer: Wilsonart
Color: Haida

Solid Surface (SS)
Code: SS-1
Manufacturer: Wilsonart
Color: Moon Geyser

Door Stain (STN)
Code: STN-1
Manufacturer: Masonite Architectural
Color: Plain Sliced White Maple, Clear Finish



WOOD BASE WD-1

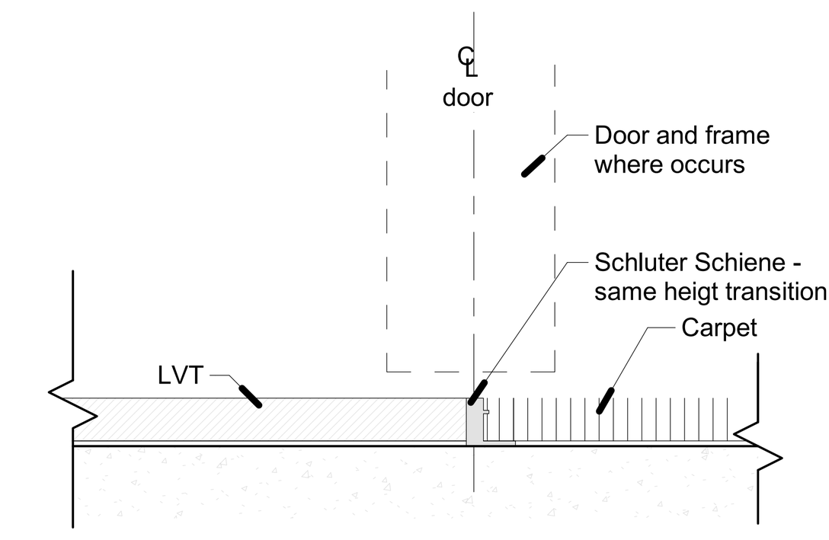
GENERAL NOTES:

1. North in Finish Schedule relates to North on plans.
2. Vision panel frames to be painted to match door frames.
3. Provide ADA compliant thresholds at flooring material changes as required.
4. Align floor material transitions with center of door panels.
5. All soffits to be painted with flat sheen. All sides and underside of soffits to be painted the same color.
6. All paint in toilet rooms to be epoxy paint.
7. See finish plans and elevations for accent paint color locations.
8. Paint all sides of pilasters same color.
9. Install finish end panels to all exposed surfaces of casework.
10. Mechanical and Electrical cut and restoration of the substrate surface is to be performed by the trade requiring access. Finish coat of plaster/spackle and paint matching adjacent existing color is to be performed by Div 09 trades. Refer to section 01 7329 for additional requirements

1

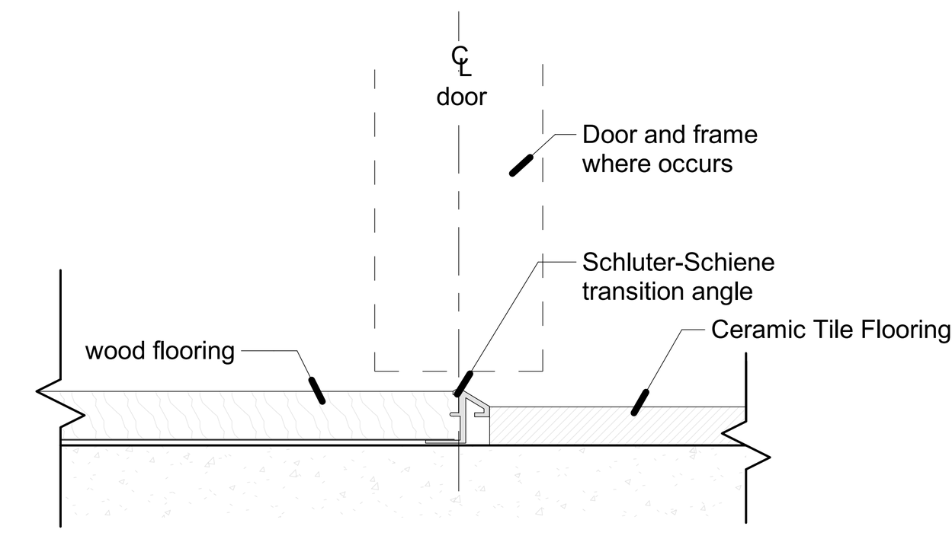
Finish Schedule 1st Floor

Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Other
101	Ex. 1795 Dining Room	EX.	EX.	EX.	
102	Ex. Corridor A	EX.	EX.	EX.	
103	Ex. 1795 Standard Room	EX.	EX.	EX.	
104	Ex. 1895 Victorian Parlor	EX.	EX.	EX.	
105	Ex. China Collection	EX.	EX.	EX.	
106	Welcome & Gift Shop	LVT-1	WD-1	PT-1	
107	Lobby Gallery	CT-1	WD-1	PT-1	
108	Stair A	CT-1	RWB-1	PT-1	Stair tread, risers, and intermediate landings ST-1
109	Women's	CT-1	CTB-1	PT-1, CWT-1	
110	Men's	CT-1	CTB-1	PT-1, CWT-1	
111	Community Room	LVT-1	WD-1	PT-1	
112	Prep. Kitchen	LVT-1	RWB-1	PT-1	
125	Ex. Recreation & Resorts Exhibition	EX.	EX.	EX.	



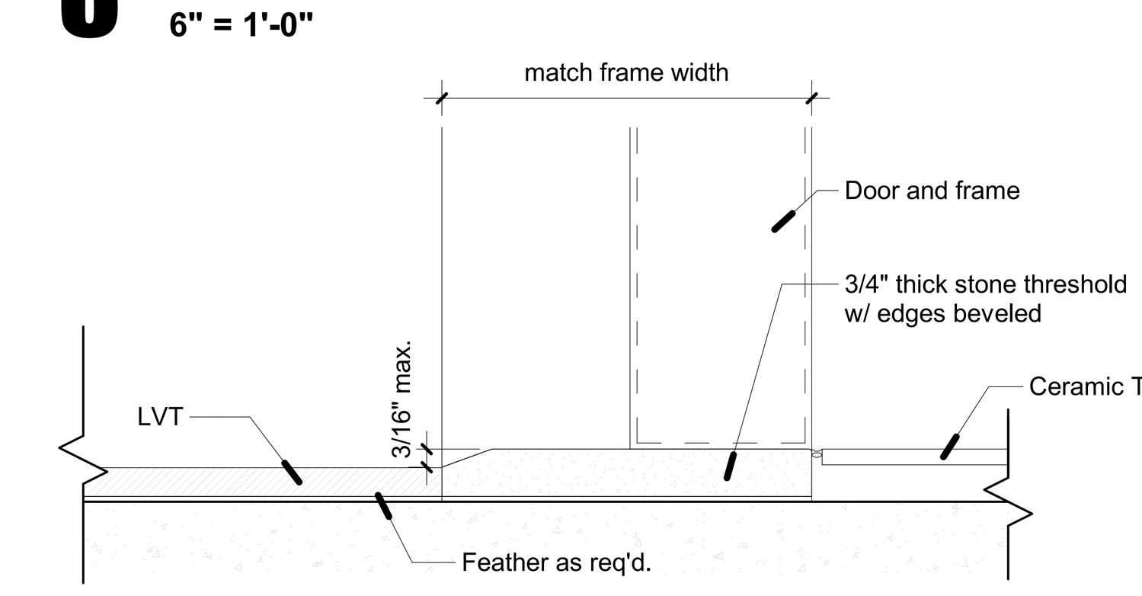
2 Transition Detail - LVT & Carpet

6" = 1'-0"



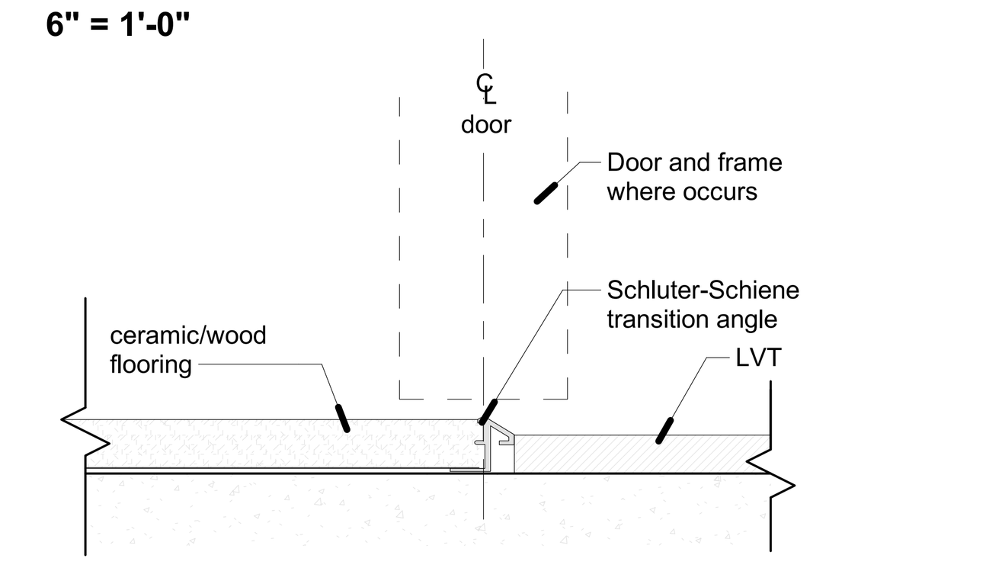
3 Transition Detail - Wood & Ceramic

6" = 1'-0"



4 Transition Detail - LVT to Saddle to Ceramic

6" = 1'-0"

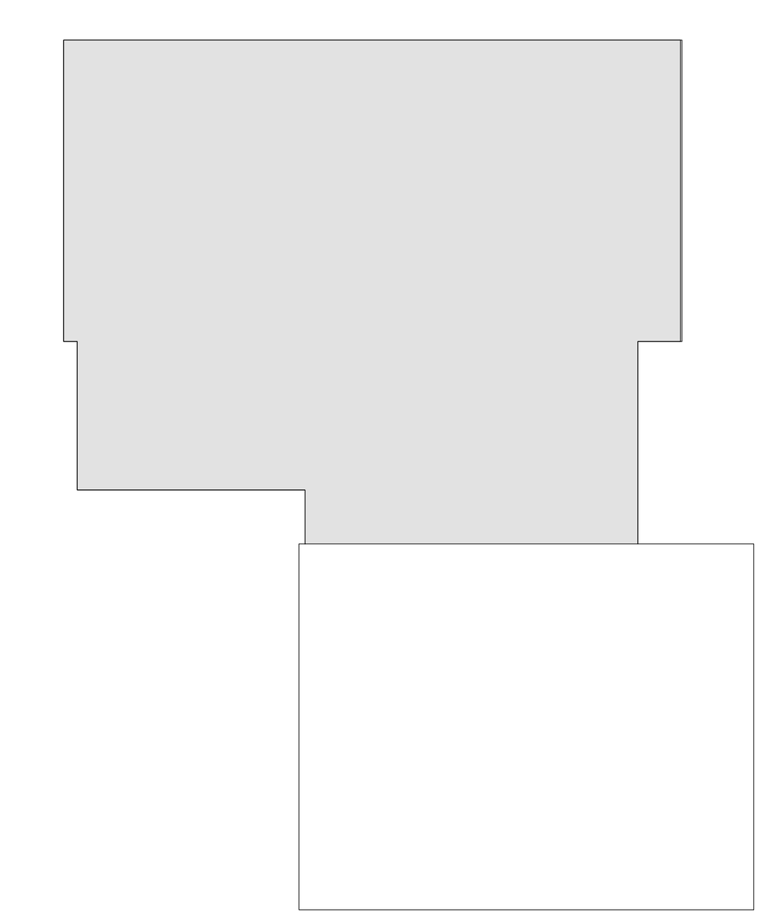


5 Transition Detail - LVT & Ceramic/Wood

6" = 1'-0"

Material Legend

- CPT-1
- SC
- LVT-1
- EX
- CT-1
- CT-2
- CWT - SEE FINISH SCHEDULE
- ASHLAR INSTALL DIRECTION



KEY PLAN
= scope of work

MKSD architects

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Jill P. Hewes, AIA, LEED AP

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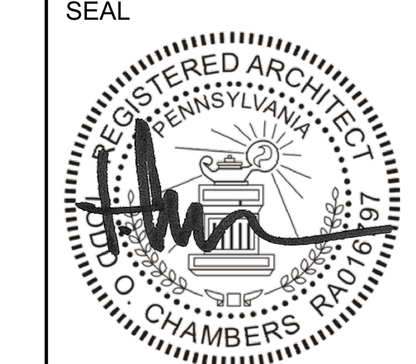


Monroe County Historical Association Alteration & Heritage Center Addition

900 Main Street - Stroudsburg, PA 18360

REVISIONS

01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
1st Floor Finish Plan

PROJECT NUMBER
16.200

DRAWN BY
Author

SCALE
As indicated

DATE
01.26.23

DRAWING NUMBER
A501

www.mksdarchitects.com

ROOM FINISH SCHEDULE LEGEND

FLOORING

<u>Carpet Tile Flooring (CPT)</u>
Code: CPT-1
Manufacturer: Mannington
Product: Teres
Color: Cashmere 12220
Size: 24" x 24"
Installation: Ashlar, monolithic pattern

<u>Ceramic Tile Flooring (CT)</u>
Code: CT-1
Manufacturer: Daltile
Product: Imagica
Color: Vision IG95, Light Polished
Size: 12" x 24"
Installation: Ashlar

<u>Luxury Vinyl Flooring (LVT)</u>
Code: LVT-1
Manufacturer: Interface
Product: Level Set - Natural Woodgrains
Color: A00207 Washed Wheat
Size: 25cm x 1m
Installation: Ashlar

<u>Rubber Wall Base (RWB)</u>
Code: RWB-1
Manufacturer: Roppe
Product: Pinnacle series
Size: 4" Standard Toe
Color: 639 Beigewood

<u>Wood Base (WD)</u>
Code: WD-1
Species: Paint Grade Poplar
Color: PT-1, see finish schedule
Size: 3/4", see WOOD BASE WD-1 diagram, below

<u>Ceramic Tile Base (CTB)</u>
Code: CTB-1
Manufacturer: Daltile
Product: Imagica
Color: Vision IG95, Light Polished
Size: 6"x12" Cove Base

<u>Rubber Stair Treads & Risers (STR)</u>
Code: STR-1
Manufacturer: Roppe
Product: #92 Low Profile Raised Circular Design
Color: 639 Beigewood

WALLS

<u>Paint (PT)</u>
Code: PT-1
Manufacturer: Sherwin Williams
Color: Greek Villa (SW 7551)

<u>Ceramic Wall Tile (CWT)</u>
Code: CWT-1
Manufacturer: Daltile
Product: Trellis Oak
Color: Brown Blend Rectangle Chevron TR24, Matte
Size: 18" x 36"
Installation: Stacked

<u>Wood Veneer Panel (WVP)</u>
Code: WVP-1
Species: Maple veneer (1/2" panel)
Color: Clear transparent finish to be selected by Architect

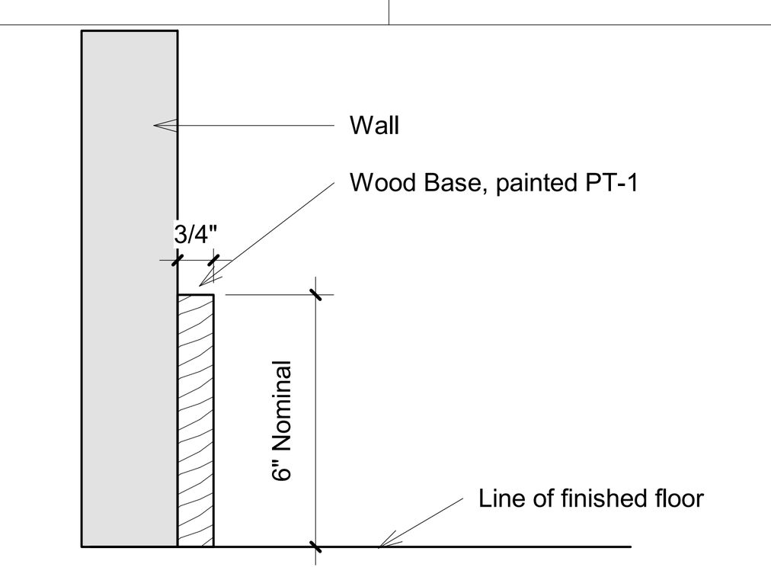
OTHER

<u>High Pressure Laminate (PLAM)</u>
Code: PLAM-1
Manufacturer: Wilsonart
Color: Fawn Cypress

<u>Quartz (QTZ)</u>
Code: QTZ-1
Manufacturer: Wilsonart
Color: Haida

<u>Solid Surface (SS)</u>
Code: SS-1
Manufacturer: Wilsonart
Color: Moon Geyser

<u>Door Stain (STN)</u>
Code: STN-1
Manufacturer: Masonite Architectural
Color: Plain Sliced White Maple, Clear Finish



WOOD BASE WD-01

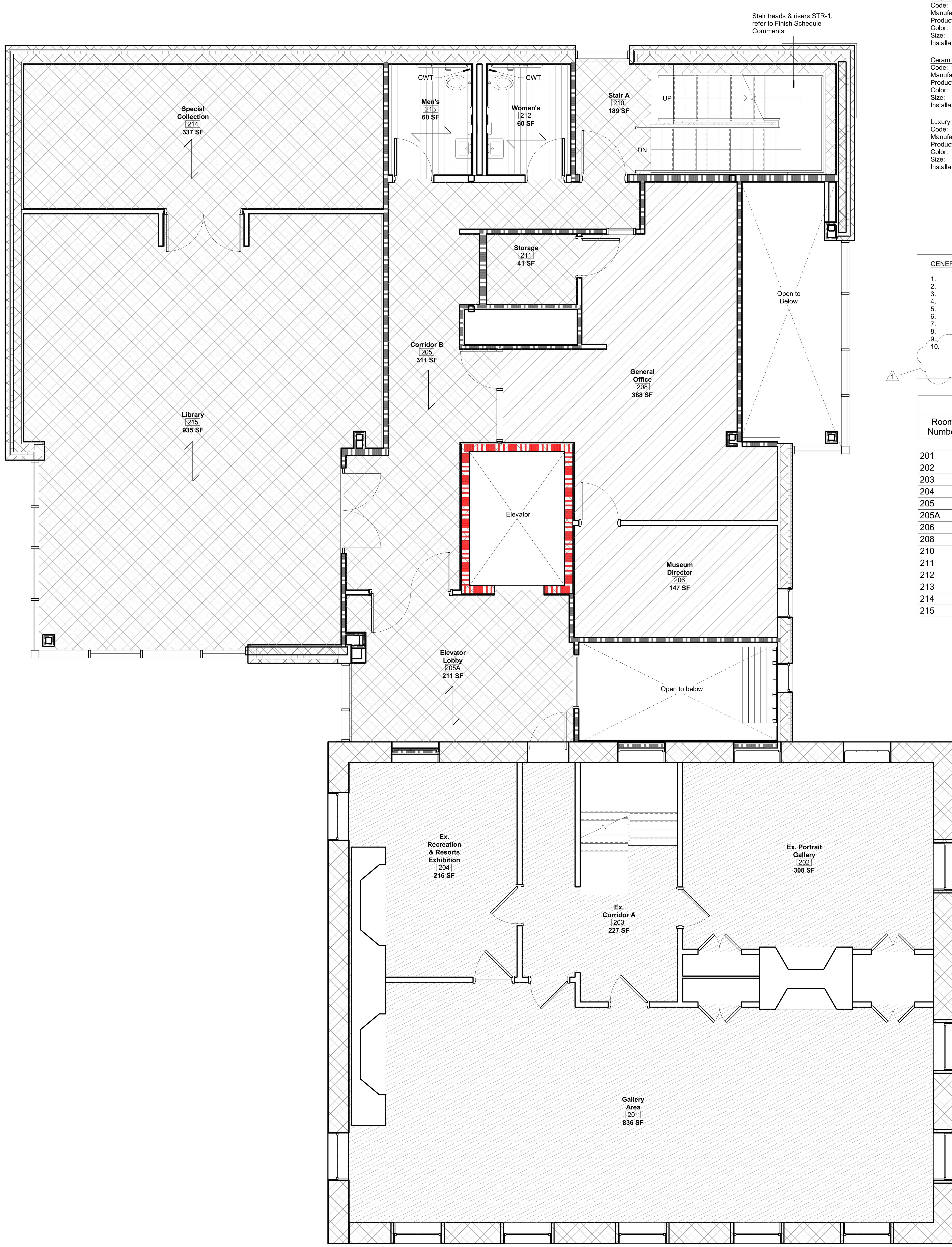
<u>GENERAL NOTES:</u>

1. North in Finish Schedule relates to North on plans.
2. Vision panel frames to be painted to match door frames.
3. Provide ADA compliant thresholds at flooring material changes as required.
4. Align floor material transitions with center of door panels.
5. All soffits to be painted with flat sheen. All sides and underside of soffits to be painted the same color.
6. All paint in toilet rooms to be epoxy paint.
7. See finish plans and elevations for accent paint color locations.
8. Paint all sides of pilasters same color.
9. Install finish end panels to all exposed surfaces of casework.
10. Mechanical and Electrical cut and restoration of the <u>substrate</u> surface is to be performed by the trade requiring access. <u>Finish</u> coat of plaster/spackle and paint matching adjacent existing color is to be performed by Div 09 trades. Refer to section 01 7329 for additional requirements

1

Finish Schedule 2nd Floor

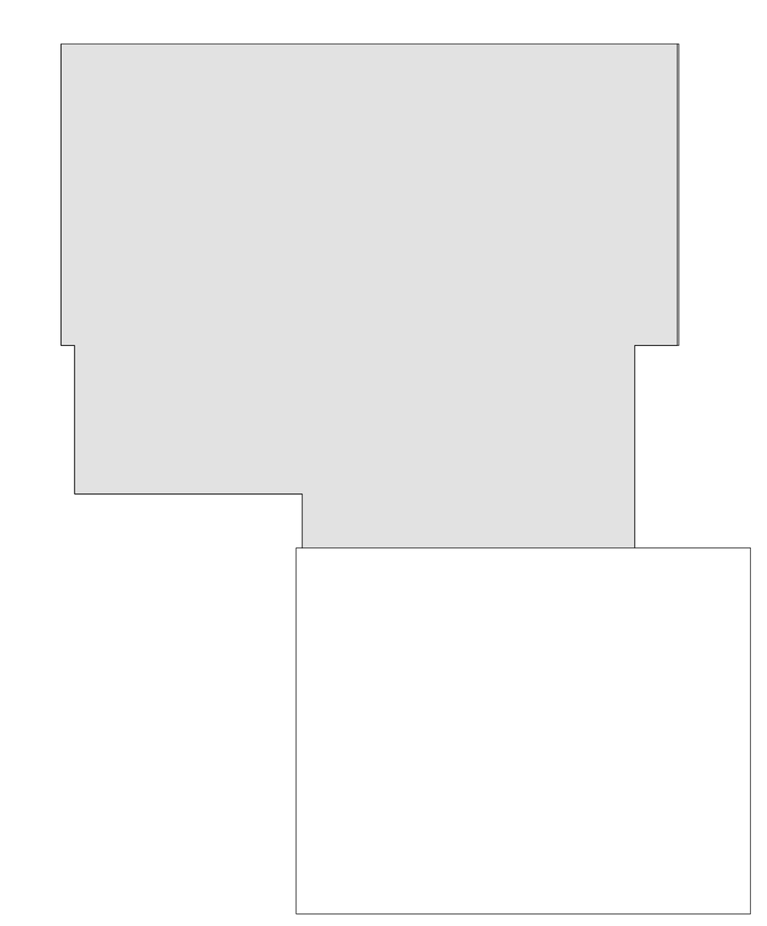
Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Comments
201	Gallery Area	EX.	EX.	EX.	
202	Ex. Portrait Gallery	EX.	EX.	EX.	
203	Ex. Corridor A	EX.	EX.	EX.	
204	Ex. Recreation & Resorts Exhibition	EX.	EX.	EX.	
205	Corridor B	LVT-1	WD-1	PT-1	
205A	Elevator Lobby	LVT-1	WD-1	PT-1	
206	Museum Director	CPT-1	WD-1	PT-1	
208	General Office	CPT-1	WD-1	PT-1	
210	Stair A	LVT-1	RWB-1	PT-1	Stair tread, risers, and intermediate landings ST-1
211	Storage	LVT-1	RWB-1	PT-1	
212	Women's	CT-1	CTB-1	PT-1, CWT-1	
213	Men's	CT-1	CTB-1	PT-1, CWT-1	
214	Special Collection	LVT-1	RWB-1	PT-1	
215	Library	LVT-1	WD-1	PT-1	



1 2nd Floor Finish Plan
1/4" = 1'-0"

Material Legend

- CPT-1
- SC
- LVT-1
- EX
- CT-1
- CT-2
- CWT - SEE FINISH SCHEDULE
- ASHLAR INSTALL DIRECTION



KEY PLAN
= scope of work

MKSD architects

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Todd O. Chambers, AIA, NCARB
Jill P. Hewes, AIA, LEED AP

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Monroe County Historical Association Alteration & Heritage Center Addition
900 Main Street - Stroudsburg, PA 18360

REVISIONS
01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
2nd Floor Finish Plan

PROJECT NUMBER
16.200

DRAWN BY
Author

SCALE
As indicated

DATE
01.26.23

DRAWING NUMBER
A502

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ROOM FINISH SCHEDULE LEGEND

FLOORING

Carpet Tile Flooring (CPT)
Code: CPT-1
Manufacturer: Mannington
Product: Teres
Color: Cashmere 12220
Size: 24" x 24"
Installation: Ashlar, monolithic pattern

Ceramic Tile Flooring (CT)
Code: CT-1
Manufacturer: Daltile
Product: Imagica
Color: Vision IG95, Light Polished
Size: 12" x 24"
Installation: Ashlar

Luxury Vinyl Flooring (LVT)
Code: LVT-1
Manufacturer: Interface
Product: Level Set - Natural Woodgrains
Color: A00207 Washed Wheat
Size: 25cm x 1m
Installation: Ashlar

Rubber Wall Base (RWB)
Code: RWB-1
Manufacturer: Roppe
Product: Pinnacle series
Size: 4" Standard Toe
Color: 639 Beigewood

Wood Base (WD)
Code: WD-1
Species: Paint Grade Poplar
Color: PT-1, see finish schedule
Size: 3/4", see WOOD BASE WD-1 diagram, below

Ceramic Tile Base (CTB)
Code: CTB-1
Manufacturer: Daltile
Product: Imagica
Color: Vision IG95, Light Polished
Size: 6"x12" Cove Base

Rubber Stair Treads & Risers (STR)
Code: STR-1
Manufacturer: Roppe
Product: #92 Low Profile Raised Circular Design
Color: 639 Beigewood

WALLS

Paint (PT)
Code: PT-1
Manufacturer: Sherwin Williams
Color: Greek Villa (SW 7551)

Ceramic Wall Tile (CWT)
Code: CWT-1
Manufacturer: Daltile
Product: Trellis Oak
Color: Brown Blend Rectangle Chevron TR24, Matte
Size: 18" x 36"
Installation: Stacked

Wood Veneer Panel (WVP)
Code: WVP-1
Species: Maple veneer (1/2" panel)
Color: Clear transparent finish to be selected by Architect

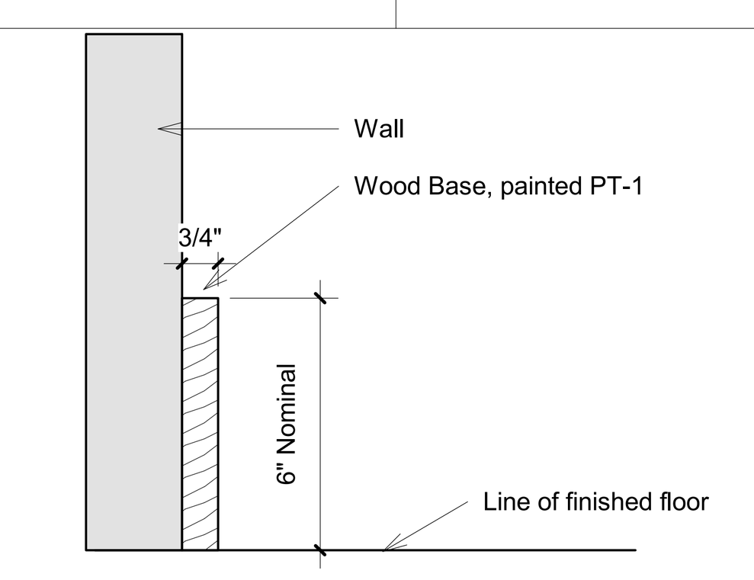
OTHER

High Pressure Laminate (PLAM)
Code: PLAM-1
Manufacturer: Wilsonart
Color: Fawn Cypress

Quartz (QTZ)
Code: QTZ-1
Manufacturer: Wilsonart
Color: Haida

Solid Surface (SS)
Code: SS-1
Manufacturer: Wilsonart
Color: Moon Geyser

Door Stain (STN)
Code: STN-1
Manufacturer: Masonite Architectural
Color: Plain Sliced White Maple, Clear Finish



WOOD BASE WD-01

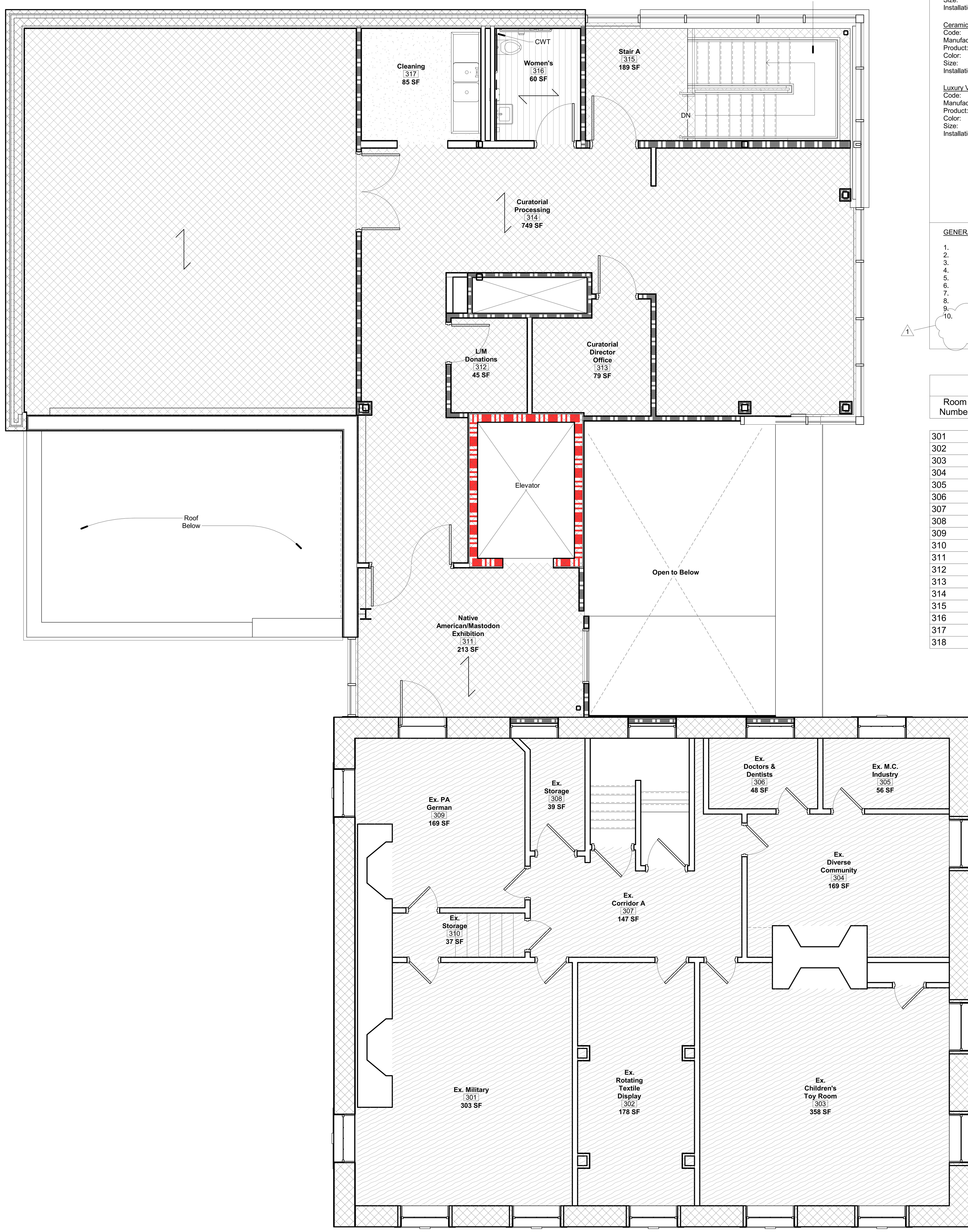
GENERAL NOTES:

1. North in Finish Schedule relates to North on plans.
2. Vision panel frames to be painted to match door frames.
3. Provide ADA compliant thresholds at flooring material changes as required.
4. Align floor material transitions with center of door panels.
5. All soffits to be painted with flat sheen. All sides and underside of soffits to be painted the same color.
6. All paint in toilet rooms to be epoxy paint.
7. See finish plans and elevations for accent paint color locations.
8. Paint all sides of pilasters same color.
9. Install finish end panels to all exposed surfaces of casework.
10. Mechanical and Electrical cut and restoration of the substrate surface is to be performed by the trade requiring access. Finish coat of plaster/spackle and paint matching adjacent existing color is to be performed by Div 09 trades. Refer to section 01 7329 for additional requirements

1

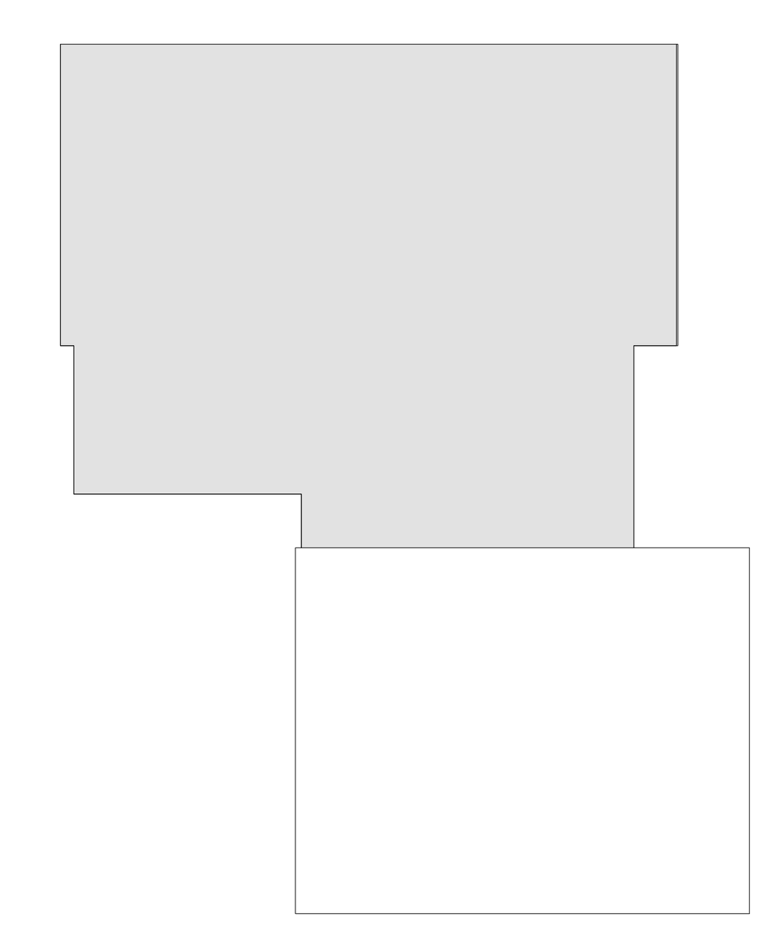
Finish Schedule 3rd Floor

Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Other
301	Ex. Military	EX.	EX.	EX.	
302	Ex. Rotating Textile Display	EX.	EX.	EX.	
303	Ex. Children's Toy Room	EX.	EX.	EX.	
304	Ex. Diverse Community	EX.	EX.	EX.	
305	Ex. M.C. Industry	EX.	EX.	EX.	
306	Ex. Doctors & Dentists	EX.	EX.	EX.	
307	Ex. Corridor A	EX.	EX.	EX.	
308	Ex. Storage	EX.	EX.	EX.	
309	Ex. PA German	EX.	EX.	EX.	
310	Ex. Storage	EX.	EX.	EX.	
311	Native American/Mastodon Exhibition	LVT-1	WD-1	PT-1	
312	L/M Donations	LVT-1	RWB-1	PT-1	
313	Curatorial Director Office	LVT-1	RWB-1	PT-1	
314	Curatorial Processing	LVT-1	RWB-1	PT-1	
315	Stair A	LVT-1	RWB-1	PT-1	Stair tread, risers, and intermediate landings ST-1
316	Women's	CT-1	CTB-1	PT-1, CWT-1	
317	Cleaning	SC	RWB-1	PT-1	
318	Curatorial Storage	LVT-1	RWB-1	PT-1	



Material Legend

- CPT-1
- SC
- LVT-1
- EX
- CT-1
- CT-2
- CWT - SEE FINISH SCHEDULE
- ASHLAR INSTALL DIRECTION



KEY PLAN
= scope of work

1 3rd Floor Finish Plan
1/4" = 1'-0"

N

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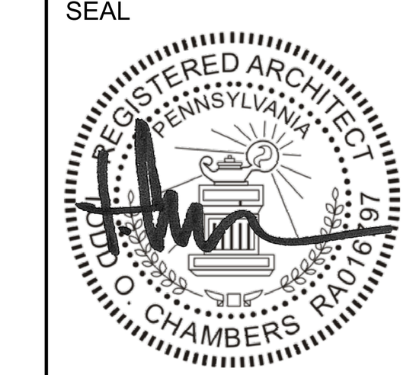
SEAL



Monroe County Historical Association Alteration & Heritage Center Addition
900 Main Street - Stroudsburg, PA 18360

REVISIONS
01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
3rd Floor Finish Plan

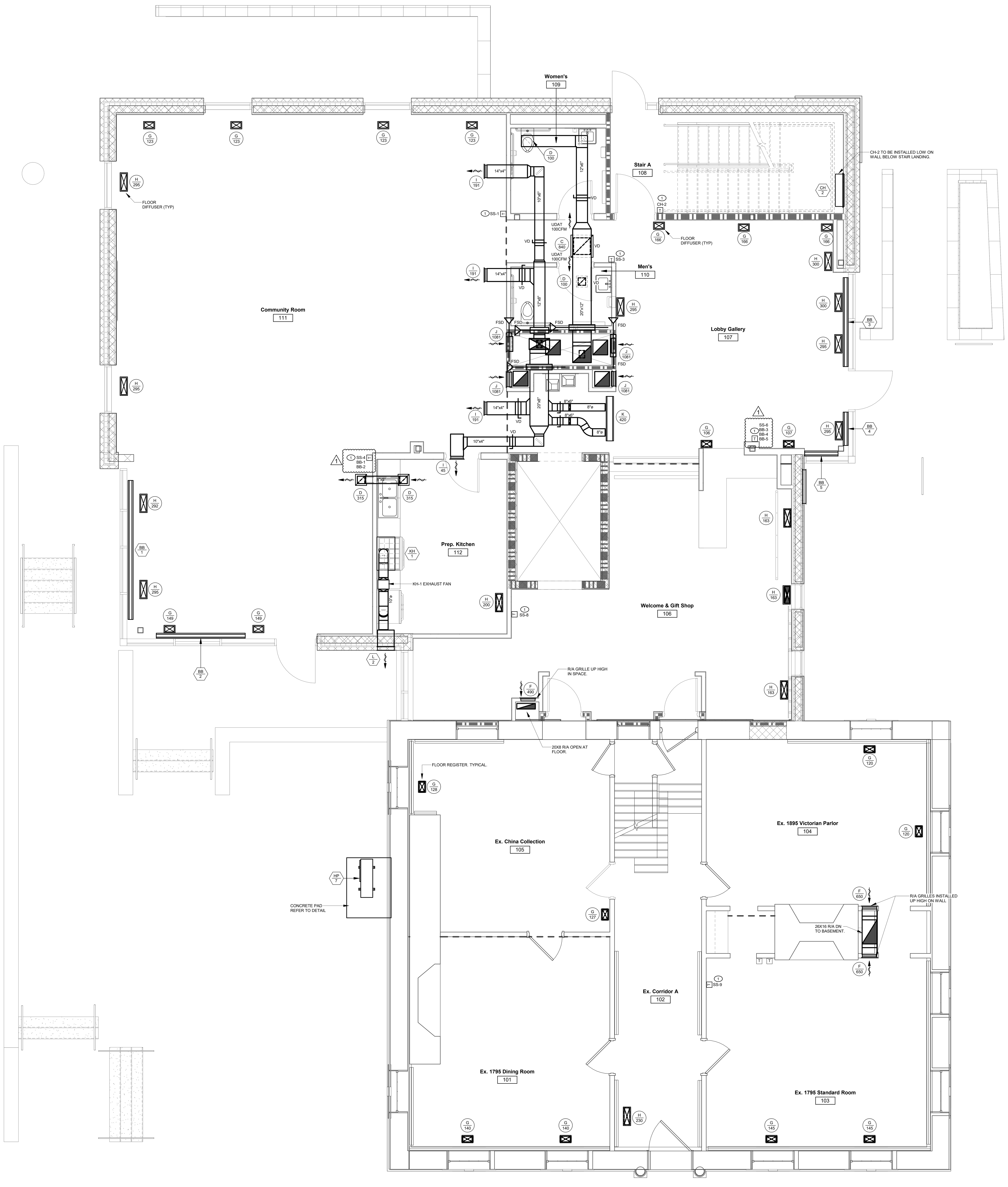
PROJECT NUMBER
16.200

DRAWN BY
Author

SCALE
As indicated

DATE
01.26.23

DRAWING NUMBER
A503



1 1st Floor Plan - Mechanical

SCALE 4' 0 8' 16' 24'

NOTES BY SYMBOL - MECHANICAL

1. FINAL LOCATION OF CONTROL DEVICE TO BE COORDINATED WITH OWNER PRIOR TO INSTALLATION. MOUNT TOP OF CONTROL DEVICE MAXIMUM 47" AFF.
2. COORDINATE GRILLE LOCATION TO ACCOMODATE DU UNIT REMOVAL. GRILLE TO BE OPEN TO CHASE SPACE.

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NY P.E. # 102070-01 DE P.E. # 24216
TN P.E. # 123268 CT P.E. # 34352
SC P.E. # 39067 MD P.E. # 58304
CO P.E. # 60950 KY P.E. # 35456

JCF	JCF	CTS
drawn	designed	checked

drawing not valid without authorized sae signatures

SAE Project No: FHC-14619

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1	02.07.23	Addendum 1

DRAWING TITLE

1st Floor Plan - Mechanical

PROJECT NUMBER 16.200

DRAWN BY JCF

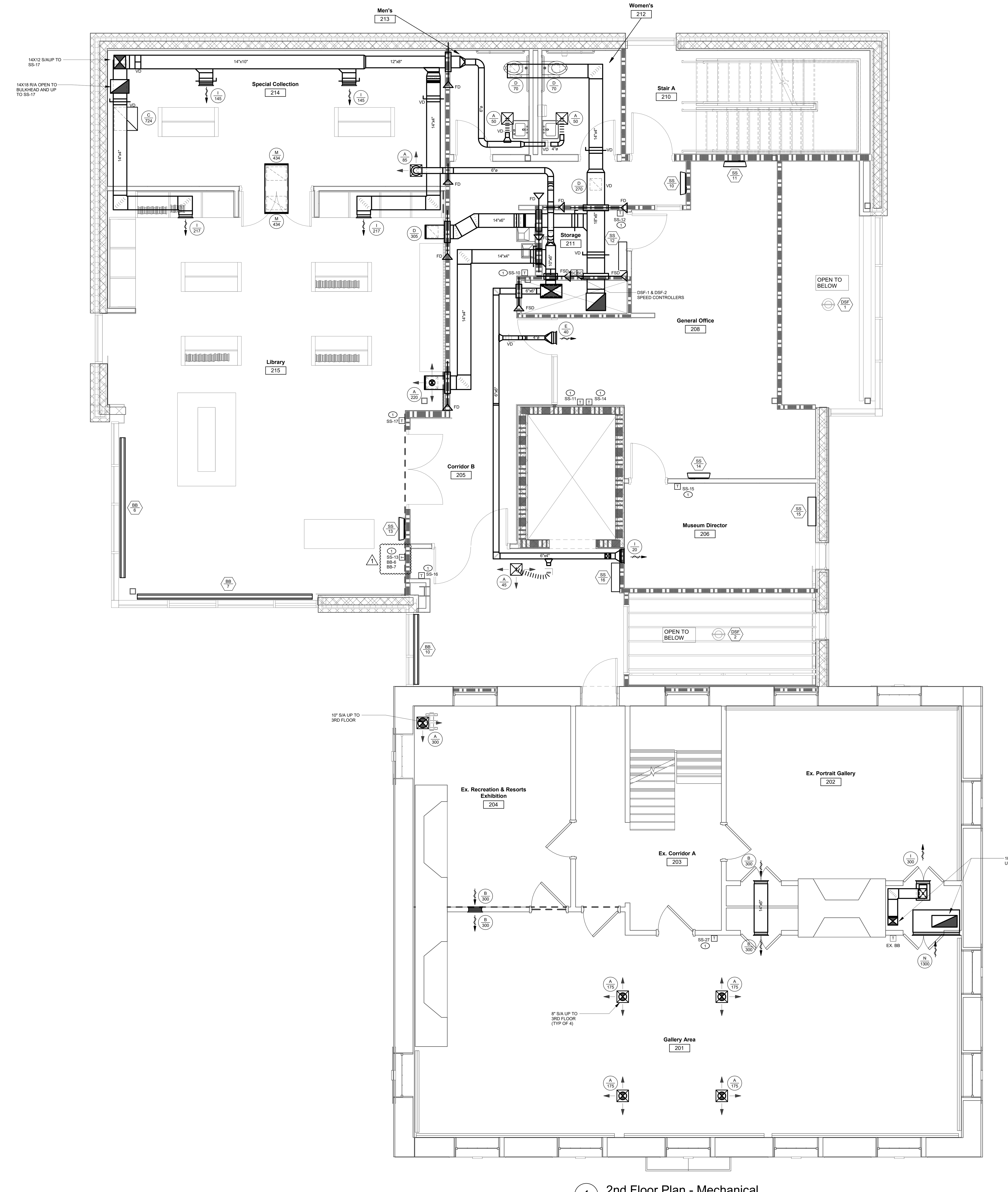
SCALE As indicated

DATE 01.26.23

DRAWING NUMBER

M101

www.mksdarchitects.com



1 2nd Floor Plan - Mechanical

SCALE 4' 0 8' 16' 24'

NOTES BY SYMBOL - MECHANICAL

1. FINAL LOCATION OF CONTROL DEVICE TO BE COORDINATED WITH OWNER PRIOR TO INSTALLATION. MOUNT TOP OF CONTROL DEVICE MAXIMUM 47" AFF.
2. COORDINATE GRILLE LOCATION TO ACCOMODATE DU UNIT REMOVAL. GRILLE TO BE OPEN TO CHASE SPACE.

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JCF	JCF	CTS
drawn	designed	checked

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Alteration & Heritage Center Addition
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REVISIONS

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No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
2nd Floor Plan - Mechanical

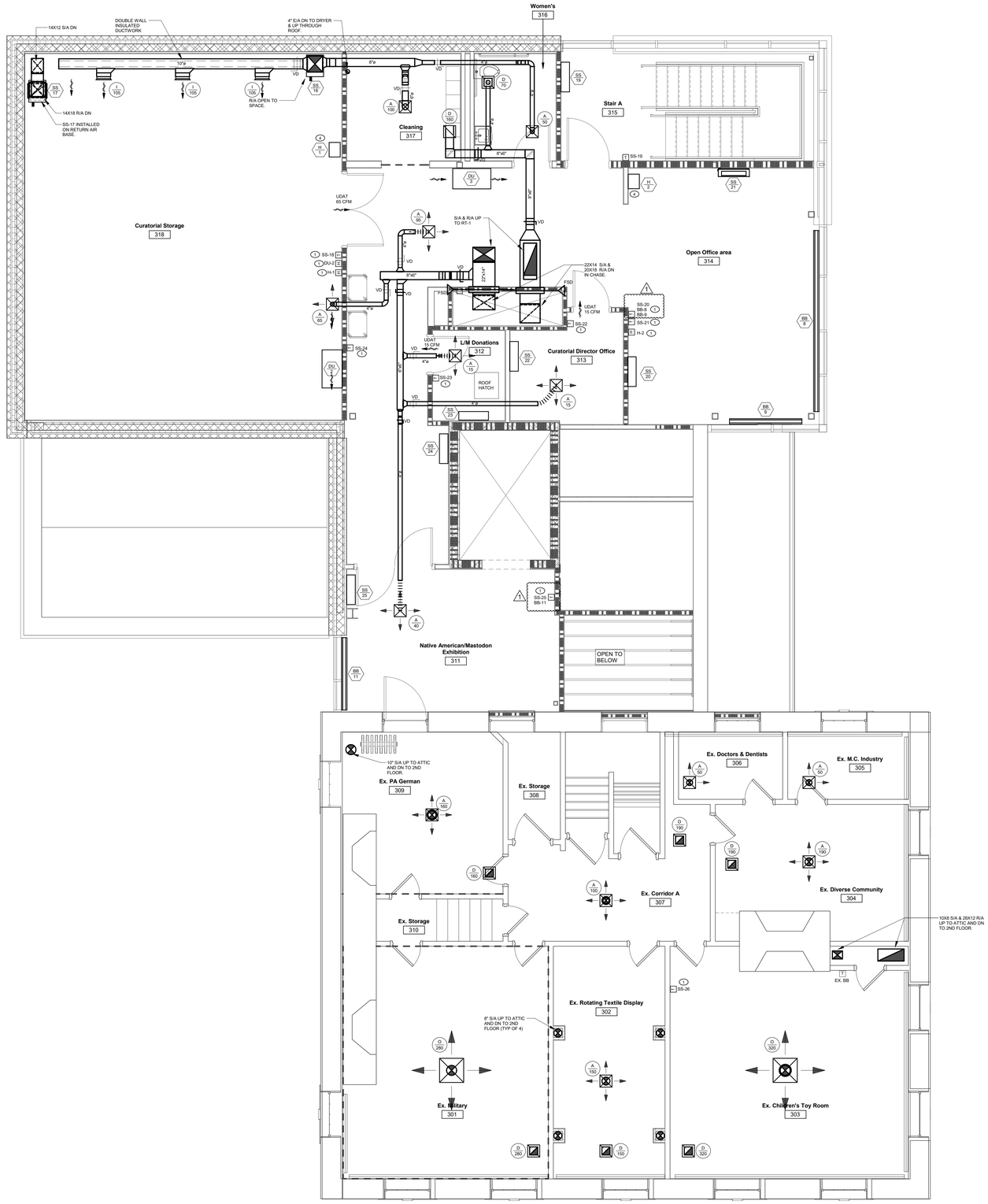
PROJECT NUMBER
16.200

DRAWN BY
JCF

SCALE
As indicated

DATE
01.26.23

DRAWING NUMBER
M102



1 3rd Floor Plan - Mechanical

SCALE

4' 0 8' 16' 24'

NOTES BY SYMBOL - MECHANICAL

1. FINAL LOCATION OF CONTROL DEVICE TO BE COORDINATED WITH OWNER PRIOR TO INSTALLATION. MOUNT TOP OF CONTROL DEVICE MAXIMUM 47" AFF.
2. COORDINATE GRILLE LOCATION TO ACCOMODATE DU UNIT REMOVAL. GRILLE TO BE OPEN TO CHASE SPACE.

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No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE

3rd Floor Plan - Mechanical

PROJECT NUMBER 16.200

DRAWN BY JCF

SCALE As indicated

DATE 01.26.23

DRAWING NUMBER

M103

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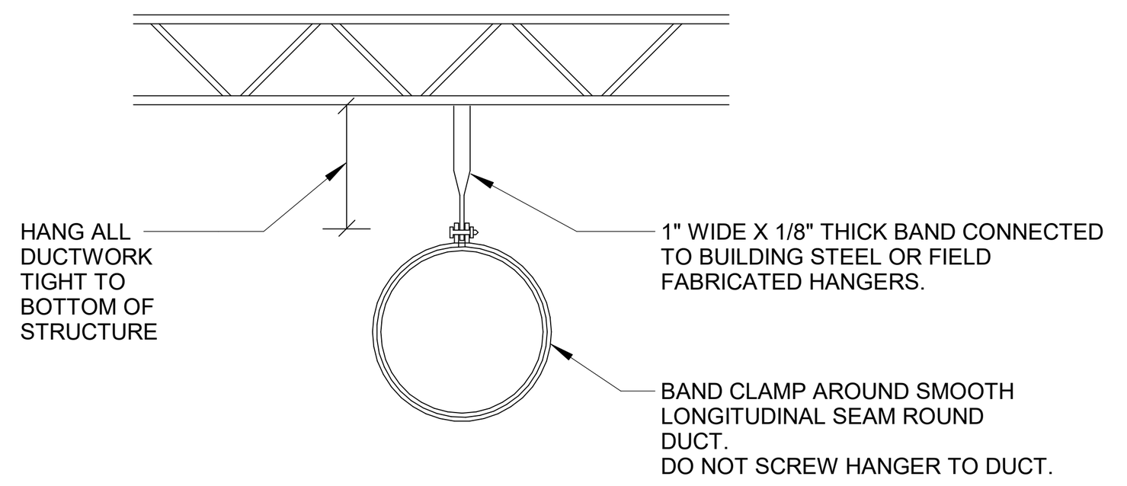
SC P.E. # 39067 — MD P.E. # 58304
CO P.E. # 40950 — KY P.E. # 35456

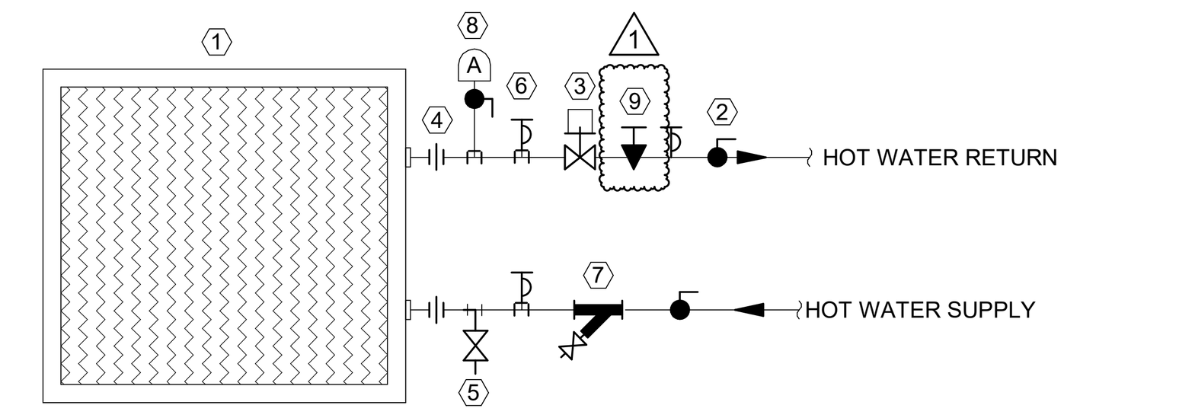
JCF designed — JCF drawn — CTS checked

drawing not valid without authorized sae signatures

SAE Project No: FHC-14619



1 SPIRAL DUCT MOUNTING DETAIL
NO SCALE



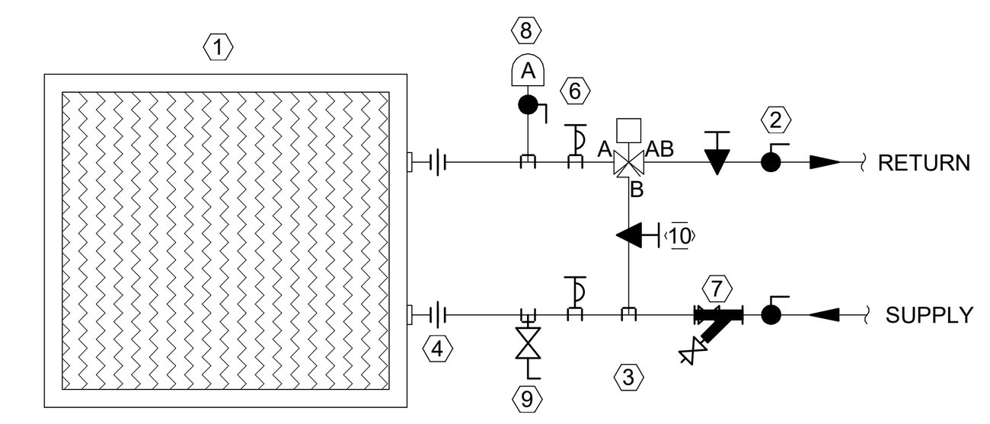
DETAIL NOTES BY SYMBOL

1. HW COIL
2. BALL VALVE (TYPICAL)
3. CONTROL VALVE: REFER TO SPEC.
4. UNION (TYPICAL)
5. DRAIN VALVE (TYPICAL)
6. TEMPERATURE/PRESSURE TEST PORT
7. STRAINER WITH BLOWDOWN
8. MANUAL AIR VENT WITH ISOLATION BALL VALVE (TYPICAL)
9. Y-PATTERN MANUAL BALANCING VALVE

PIPE FULL SIZED DIRECTLY TO COIL CONNECTION. PROVIDE REDUCER AT COIL CONNECTION, AS REQUIRED.

TYPICAL FOR HOT WATER BASEBOARD AND CABINET HEATERS

2 2-WAY CONTROL VALVE DETAIL
NO SCALE



DETAIL NOTES BY SYMBOL (THIS DETAIL ONLY)

1. COIL
2. BALL VALVE (TYPICAL)
3. CONTROL VALVE: REFER TO SPEC.
4. UNION (TYPICAL)
5. NOT USED
6. TEMPERATURE/PRESSURE TEST PORT
7. STRAINER WITH BLOWDOWN
8. MANUAL AIR VENT WITH ISOLATION BALL VALVE (TYPICAL)
9. DRAIN VALVE (TYPICAL)
10. Y-PATTERN MANUAL BALANCING VALVE

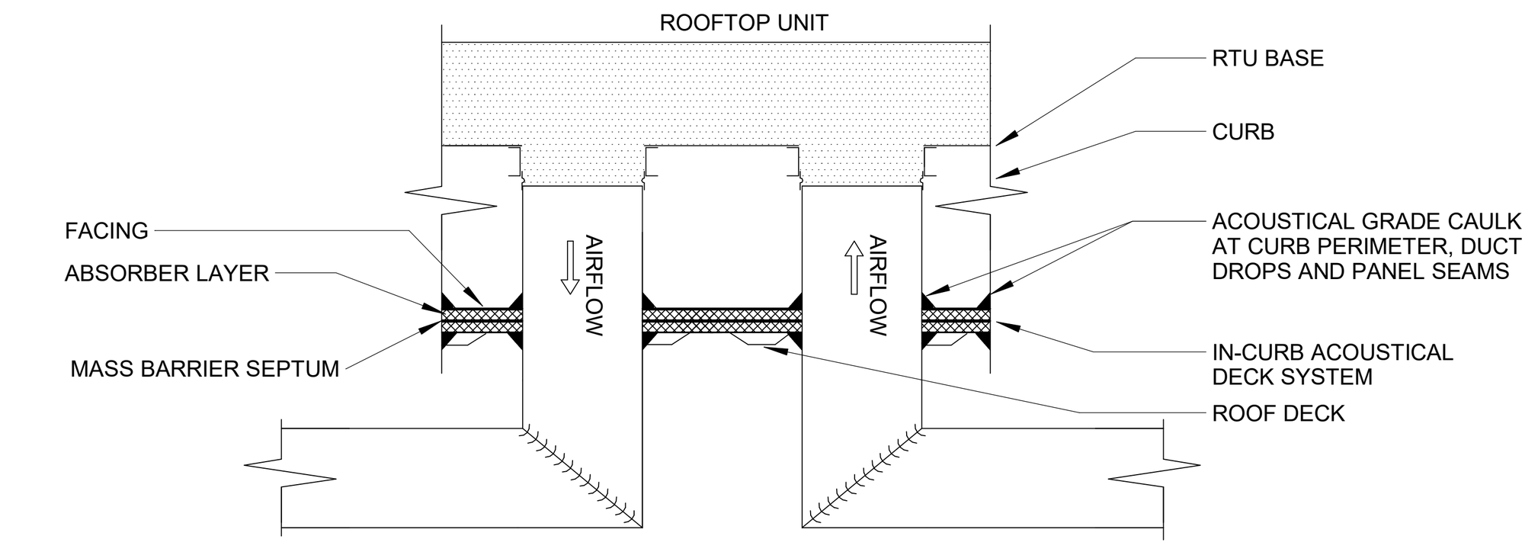
PIPE FULL SIZED DIRECTLY TO UNIT COIL CONNECTION. PROVIDE REDUCER AT COIL CONNECTION, AS REQUIRED.

REFER TO PROJECT SPECIFICATIONS FOR HYDRONIC VALVE REQUIREMENTS.

REFER TO HYDRONIC VALVE SCHEDULE FOR VALVE REQUIREMENTS.

THIS DETAIL APPLICABLE TO UNIT HEATERS

3 3-WAY CONTROL VALVE DETAIL
NO SCALE



THE DECK IN-CURB ACOUSTICAL SYSTEM SHALL MEET CLASS "A" SPREAD AND SMOKE DEVELOP AS PER ASTM E-84. THE MULTI-LAYER COMPOSITE SYSTEM SHALL CONSIST OF ABSORBER AND MASS BARRIER LAYERS WITH MINIMUM COMPOSITE THICKNESS OF 8" AND SHALL REDUCE RADIATED NOISE INSIDE THE CURB. ACOUSTICAL GRADE CAULK SHALL BE USED AROUND ALL CURB PERIMETER EDGES AND AROUND ALL CURB OPENINGS AS DETAILED ABOVE AFTER CONTRACTOR SUPPLIED DECKING IS FLASHED TO WITHIN 1/4" WITHOUT CONTACTING THE DUCT WALL. A LETTER OF CERTIFICATION SHALL BE ISSUED BY THE ACOUSTICAL SYSTEM SUPPLIER STATING THE SYSTEM HAS BEEN PROPERLY INSTALLED PRIOR TO SETTING THE UNIT.

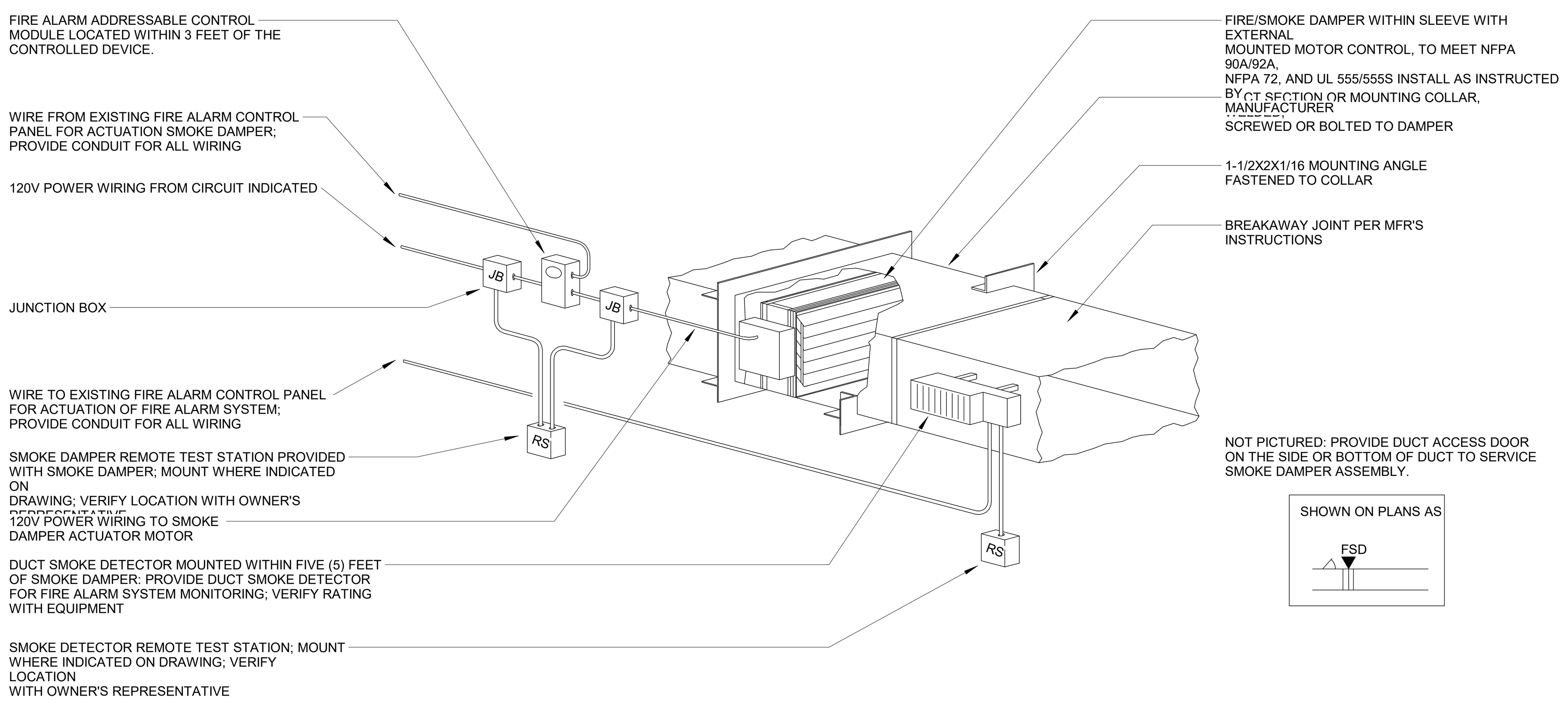
THE IN-CURB ACOUSTICAL DECK SYSTEM SHALL MEET STC-52 IN ACCORDANCE WITH TEST PROCEDURE ASTM E-90-10.

FREQ. (HZ)	80	100	125	160	200	250	315	400	500	630	800	1000
TL (DB)	26	27	33	32	35	42	45	45	50	59	59	60

FREQ. (HZ) 1250 1600 2000 2500 3150 4000 5000 6300 8000 10000 STC
TL (DB) 62 63 64 65 67 71 74 78 80 80 52

BASIS OF DESIGN: HUSHCORE DS-52
CONTACT:
BRD NOISE AND VIBRATION CONTROL, INC.
WIND GAP, PA
(610) 863-6399
INFO@BRD-NONOISE.COM

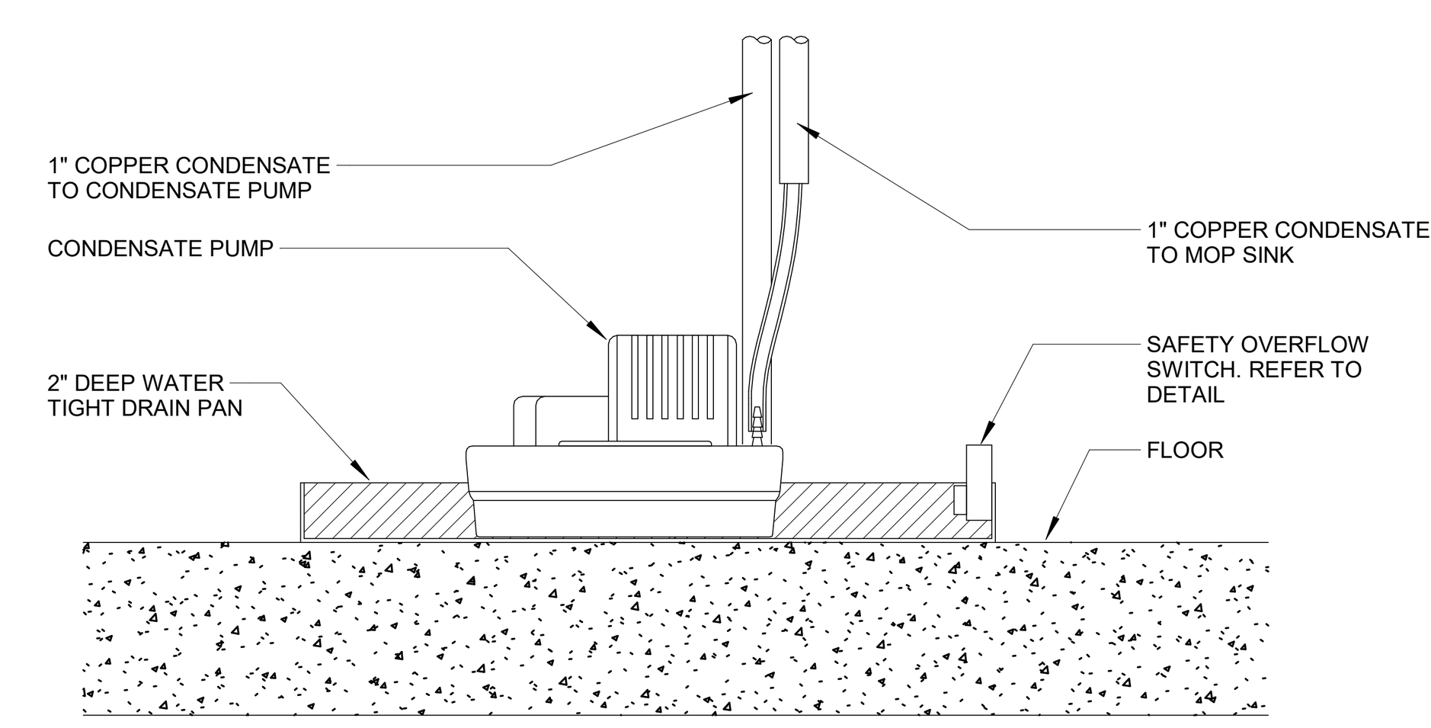
4 ACOUSTICAL CURB SYSTEM DETAILS
NO SCALE



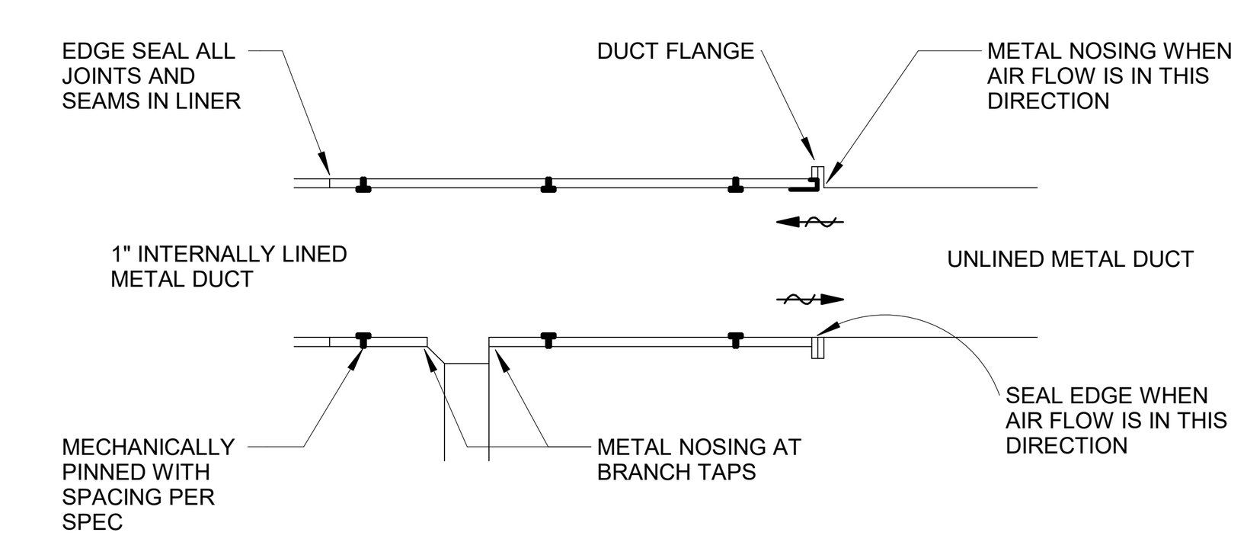
NOT PICTURED: PROVIDE DUCT ACCESS DOOR ON THE SIDE OR BOTTOM OF DUCT TO SERVICE SMOKE DAMPER ASSEMBLY.

SHOWN ON PLANS AS
FSD

5 COMBINATION FIRE-SMOKE DAMPER & DUCT DETECTOR DETAIL
NO SCALE

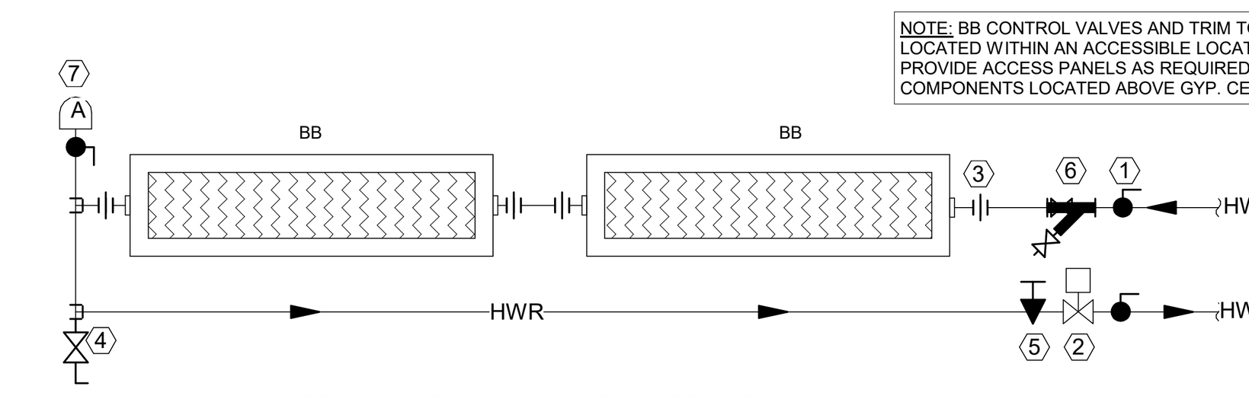


6 CONDENSATE PUMP DETAIL
NO SCALE



7 DUCTWORK INTERNAL LINER DETAIL
NO SCALE

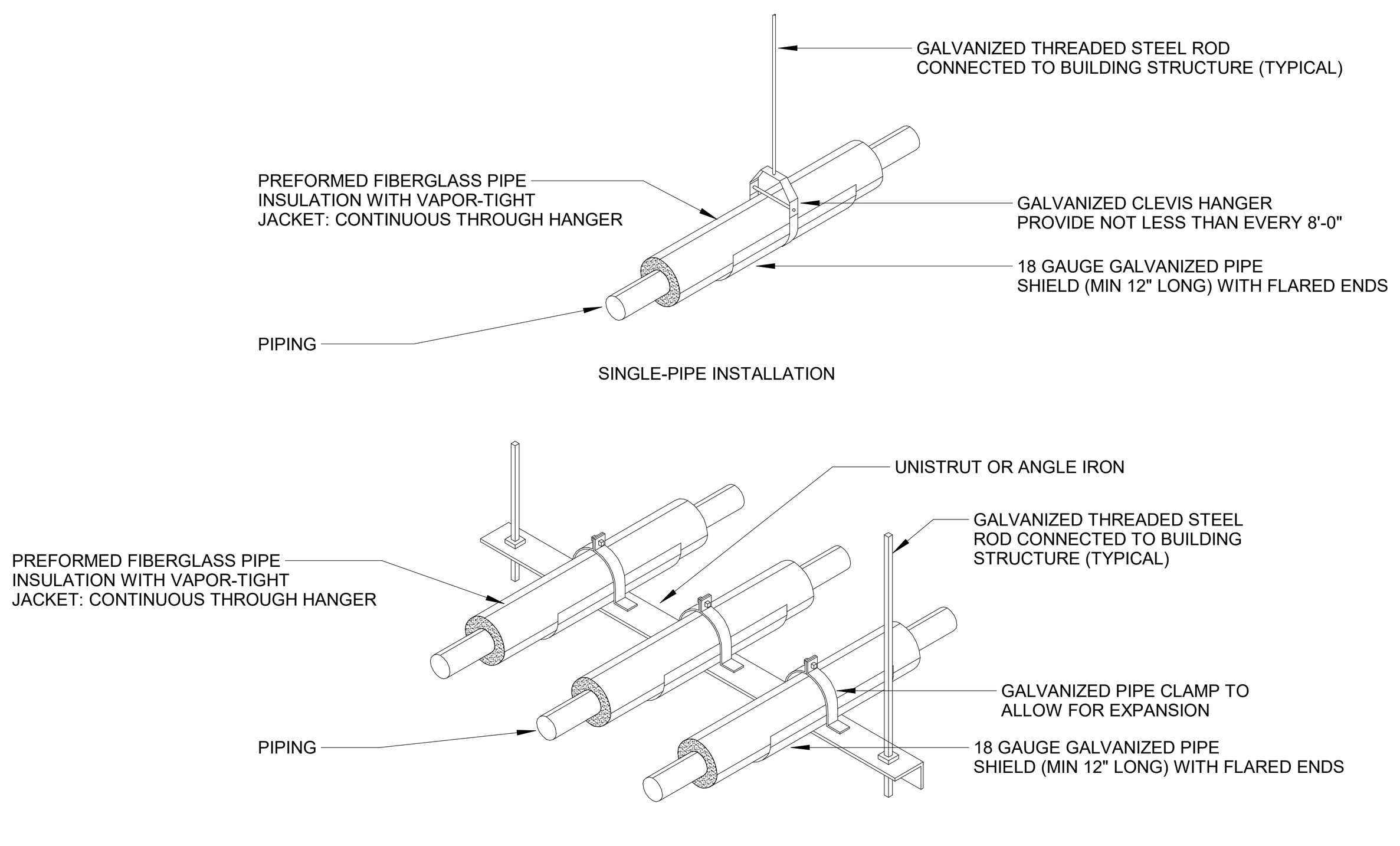
NOTE: BB CONTROL VALVES AND TRIM TO BE LOCATED WITHIN AN ACCESSIBLE LOCATION. PROVIDE ACCESS PANELS AS REQUIRED FOR ANY COMPONENTS LOCATED ABOVE GYP. CEILING.



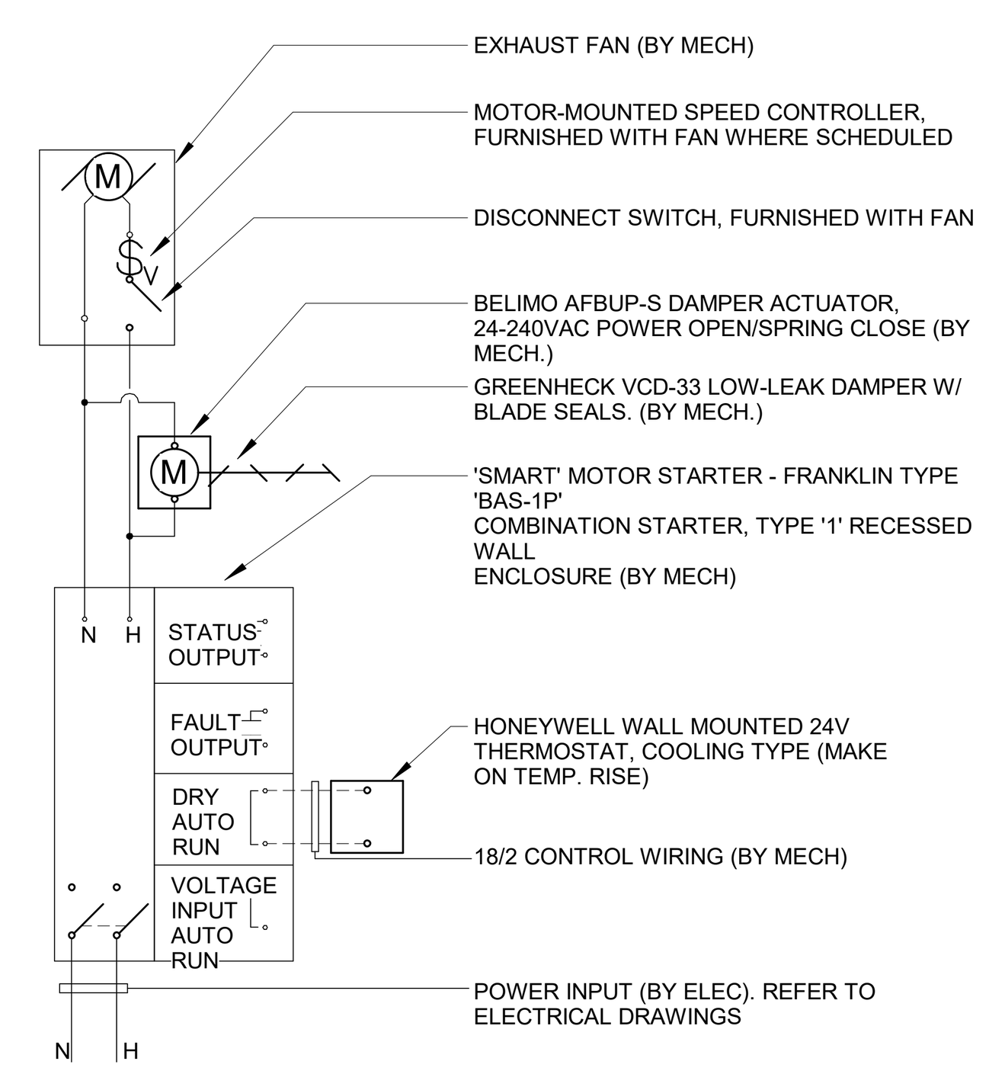
DETAIL NOTES BY SYMBOL (THIS DETAIL ONLY)

1. BALL VALVE (TYPICAL)
2. 2-WAY CONTROL VALVE REFER TO SPEC.
3. UNION (TYPICAL)
4. DRAIN VALVE (TYPICAL)
5. Y-PATTERN MANUAL BALANCING VALVE
6. STRAINER WITH BLOWDOWN
7. MANUAL AIR VENT WITH ISOLATION BALL VALVE (TYPICAL)

8 SERIES BASEBOARD PIPING DETAIL
NO SCALE



9 PIPE HANGER DETAIL
NO SCALE



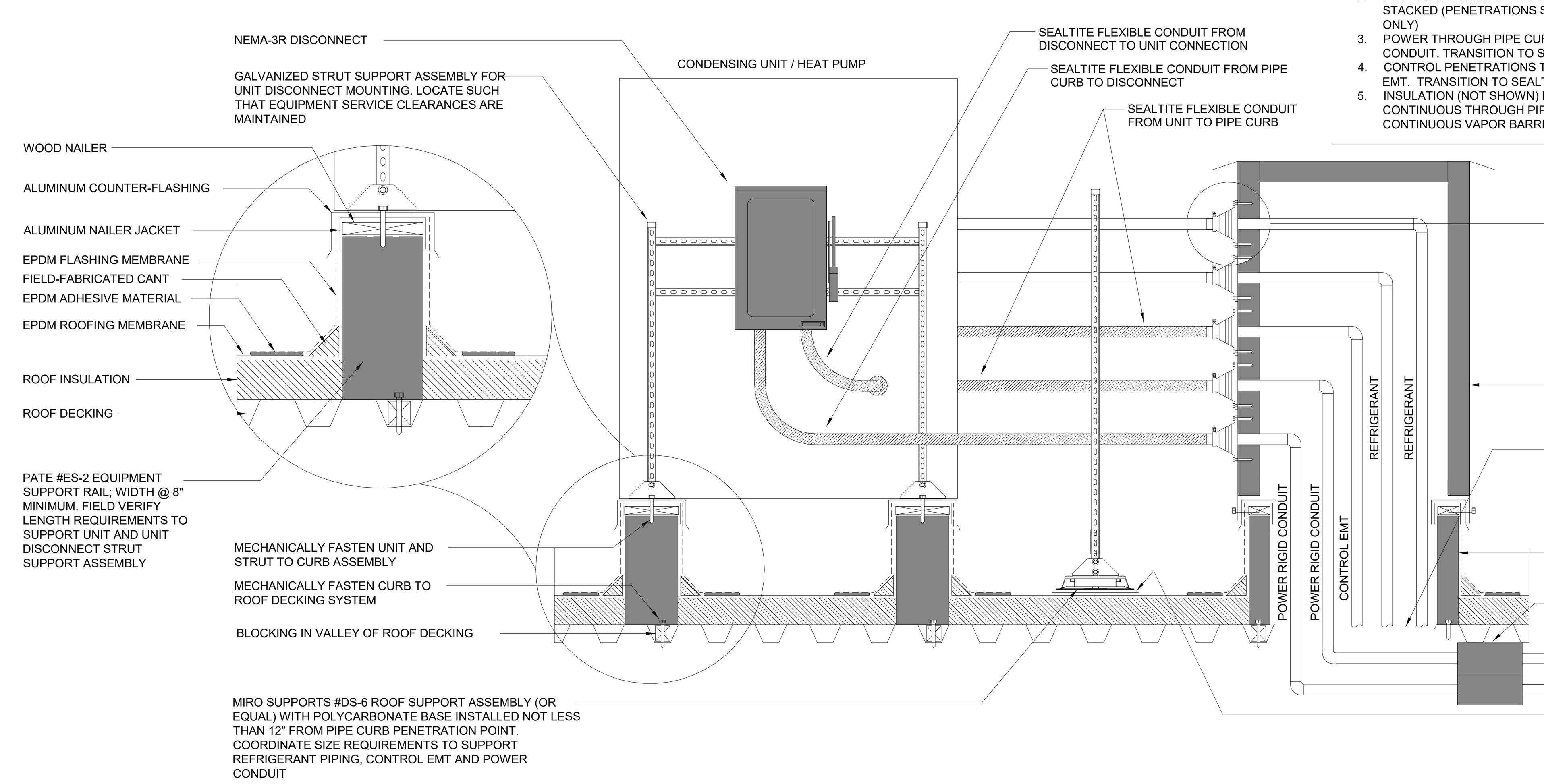
24 VAC CONTROL WIRING BY MECH
POWER WIRING BY ELEC

EXHAUST FAN SEQUENCE OF OPERATION:
STARTER "HOA" KEYPAD ALLOWS "HAND-OFF-AUTO" CONTROL IN AUTO POSITION:
- THERMOSTAT CONTACT CLOSES TO PROVIDE "START" INPUT TO MOTOR STARTER
- STARTER PROVIDES OUTPUT POWER TO OPEN DAMPER AND ENERGIZES FAN
- THERMOSTAT CONTACT OPENS TO STOP FAN AND DAMPER CLOSES (SPRING RETURN)

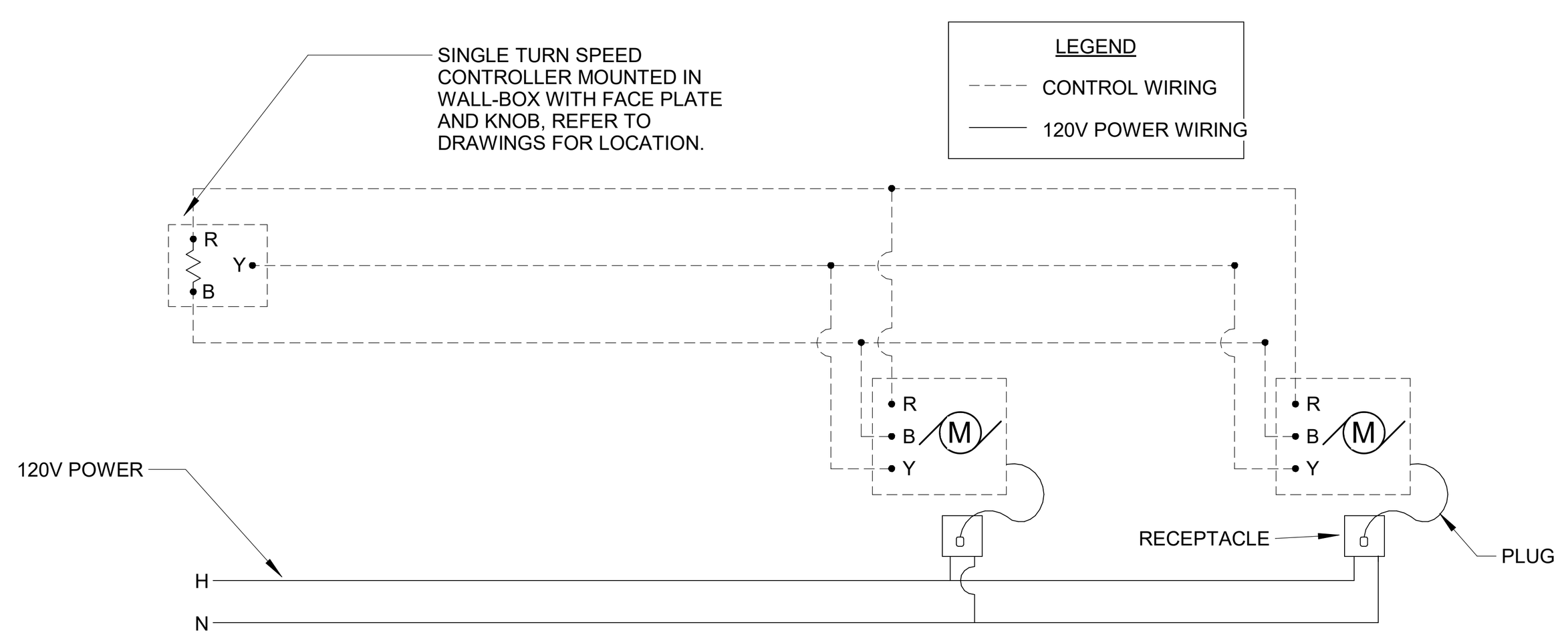
EXHAUST FAN WIRING SCHEMATIC TYPICAL FOR EF-1

10 EF WIRING DIAGRAM
NO SCALE

NOTES:
1. ALL FASTENERS SHALL BE STAINLESS STEEL.
2. PIPE BOX ASSEMBLY PENETRATIONS MAY BE VERITICAL, HORIZONTAL OR STACKED (PENETRATIONS SHOWN VERTICALLY FOR CLARITY PURPOSES ONLY)
3. POWER THROUGH PIPE CURB PENETRATION SHALL BE MADE WITH RIGID CONDUIT. TRANSITION TO SEALTITE FLEXIBLE AFTER PENETRATION.
4. CONTROL PENETRATIONS THROUGH PIPE CURB SHALL BE MADE WITH EMT. TRANSITION TO SEALTITE FLEXIBLE AFTER PENETRATION.
5. INSULATION (NOT SHOWN) FOR REFRIGERANT PIPES SHALL BE CONTINUOUS THROUGH PIPE CURB PENETRATION TO MAINTAIN CONTINUOUS VAPOR BARRIER



11 HEAT PUMP MOUNTING DETAIL
NO SCALE



12 DSF WIRING DETAIL
NO SCALE

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www.strunk-albert.com

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Strunk-Albert Engineering
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JCF	JCF	CTS
drawn	designed	checked

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SAE Project No: FHC-14619

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DRAWING TITLE
DETAILS

PROJECT NUMBER
16.200

DRAWN BY
JCF

SCALE
1/8" = 1'-0"

DATE
01.26.23

DRAWING NUMBER
M501

www.mksdarchitects.com

PUMP SCHEDULE

TAG	NUMBER	MANUFACTURER	MODEL	GPM	FT HD	HP	VOLTAGE	PHASE	SUCTION	DISCHARGE
P	1	TACO	VR3452-HY1	25 GPM	20 ftH2O	0.25 hp	120 V	1	1-1/2"	1-1/2"

REMARKS:

1. PUMP MOTORS SHALL BE SIZED TO INSURE NON-OVERLOADING OF PUMPS.
2. MOTORS SHALL BE OPEN DRIP PROOF WITH NEMA "C" FACE DESIGN.
3. PUMPS SHALL BE EQUIPPED WITH SELF-ADJUSTING MECHANICAL SEALS.
4. PUMP HOUSING TO BE BE CAST IRON, ROTATING ASSEMBLIES SHALL BE STAINLESS STEEL.
5. PROVIDE WITH ECM MOTOR WITH SPEED CONTROLLER FOR WATER FLOW BALANCING.

SUBJECT TO COMPLIANCE WITH THESE SPECIFICATIONS; OTHER MANUFACTURERS THAT MAY PROVIDE EQUIPMENT INCLUDE BELL & GOSSETT OR PACO.

KITCHEN HOOD SCHEDULE

TAG	NUMBER	MANUFACTURER	MODEL	SECTION LENGTH	SECTION HEIGHT	SECTION DEPTH	TOTAL CFM	ESP	HOOD TYPE	EXHAUST DUCT CONNECTION SIZE
KH	1	DENLAR	D-1036-D-IF	3' - 0"	10 1/2"	1' - 7 1/2"	300 CFM	0.60 in-wg	WALL CANOPY	10"

REMARKS:

1. HOOD SHALL BE EXHAUST ONLY TYPE, WALL MOUNTED.
2. HOOD SHALL BE CONSTRUCTED STAINLESS STEEL.
3. HOOD SHALL INCLUDE INTEGRATED WET CHEMICAL FIRE SUPPRESSION SYSTEM INCLUDING MANUAL PULL STATION KIT.
4. HOOD SHALL BE TESTED TO UL300A REQUIREMENTS.
5. PROVIDE HOOD WITH 120V CENTRIFUGAL FAN WITH SPEED CONTROLLER ON HOOD.
6. PROVIDE HOOD WITH ADA HANDICAPPED ACCESSIBLE CONTROL BOX.
7. PROVIDE HOOD WITH ELECTRICAL DISCONNECT BOX. EC TO INSTALL.
8. UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM, A SIGNAL SHALL BE SENT TO THE SHUNT TRIP BREAKER TO DE-ACTIVATE THE APPLIANCES BELOW THE HOOD. IN ADDITION, TO THE ABOVE, AN ALARM SIGNAL SHALL BE SENT TO THE FIRE ALARM CONTROL PANEL.

DEHUMIDIFICATION UNIT SCHEDULE

TAG	NUMBER	MANUFACTURER	MODEL	CFM	EXTRACTION RATE (PINTS/DAY)	VOLTAGE	PH	AMPS	WEIGHT
DU	1	QUEST	155 DUAL	360 CFM	155	120 V	1	8 A	150 lb
DU	2	QUEST	155 DUAL	360 CFM	155	120 V	1	8 A	150 lb
DU	3	QUEST	155 DUAL	360 CFM	155	120 V	1	8 A	150 lb
DU	4	QUEST	70	150 CFM	70	120 V	1	5.1 A	70 lb

** EXTRACTION RATE BASED ON 80 DEG. F, 60% RH AIR CONDITIONS
1. PROVIDE ROOM HUMIDISTAT.
2. CONTRACTOR TO PROVIDE UNISTRUT MOUNTING WITH VIBRATION ISOLATORS FOR ATTACHMENT TO BUILDING STRUCTURE.
3. PROVIDE WITH MERV-11 FILTERS INCLUDING ONE SPARE SET.
4. R-410A REFRIGERANT.
5. CORD AND PLUG.
6. PROVIDE DRAIN PAN UNDER ENTIRE UNIT WITH CONDENSATE OVERFLOW SAFETY SWITCH.
7. PROVIDE DU-4 WITH LITTLE GIANT VCMX-20 CONDENSATE PUMP.

SUBJECT TO COMPLIANCE WITH THESE SPECIFICATIONS; OTHER MANUFACTURERS THAT MAY PROVIDE EQUIPMENT INCLUDE ULTRA-AIRE OR EBAC.

DESTRATIFICATION FAN SCHEDULE

TAG	NUMBER	MANUFACTURER	MODEL	AIRFLOW	VOLTAGE	PH	COVERAGE AREA	WEIGHT
DSF	1	AIRIUS	D-15-EC-SH	406 CFM	120 V	1	1,000 SF	10 lb
DSF	2	AIRIUS	D-15-EC-SH	406 CFM	120 V	1	1,000 SF	10 lb

REMARKS:

1: UL-507
2. PC/ABS RESIN FINISH. COLOR SELECTED BY ARCHITECT DURING SUBMITTAL PROCESS FROM STANDARD OPTIONS.
3. ELECTRONCIALLY COMMUTATED MOTOR, 0-10 VDC CONTROL VIA SINGLE-TURN WALL-MOUNTED CONTROLLER.
4. SEALED BEARINGS.
5. PROVIDE WITH 6 FT CORD AND PLUG.
6. PC/ABS RESIN, FIXED BLADE STATOR.
7. PROVIDE WITH SAFETY CABLE ATTACHED TO FAN AND BUILDING STRUCTURE.
8. SUPPORT WITH THREADED ROD.

SUBJECT TO COMPLIANCE WITH THESE SPECIFICATIONS; OTHER MANUFACTURERS MAY PROVIDE EQUIPMENT WITH EQUIVALENT FEATURES AND PERFORMANCE. ALTERNATE EQUIPMENT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW OF ACCPETANCE.

HW UNIT HEATER SCHEDULE

TAG	NUMBER	MANUFACTURER	MODEL	BTUH	GPM	3-WAY CONTROL VALVE	EWT	LWT	FLUID	WPD	FAN HP	VOLTAGE	PHASE
UH	1	RITTLING	RH-47	29,000 Btu/h	3 GPM	Yes	180 °F	160 °F	CLEAR WATER	0.2 ftH2O	0.07 hp	120 V	1

REMARKS:

1. PROVIDE WITH WIRED ROOM THERMOSTAT.
2. MOUNT UNIT UP AS HIGH AS POSSIBLE IN SPACE WITH THREADED ROD AND ANGLES. PROVIDE VIBRATION ISOLATORS.

SUBJECT TO COMPLIANCE WITH THESE SPECIFICATIONS; OTHER MANUFACTURERS THAT MAY PROVIDE EQUIPMENT INCLUDE TRANE AND CARRIER.

HW BASEBOARD SCHEDULE

TAG	NUMBER	MANUFACTURER	MODEL	BTUH	GPM	FLUID	EWT	LWT	2WAY	LENGTH
BB	1	RITTLING	PIBG5	7,600 Btu/h	1 GPM	CLEAR WATER	180 °F	160 °F	Yes	12' - 0"
BB	2	RITTLING	PIBG5	5,100 Btu/h	1 GPM	CLEAR WATER	180 °F	160 °F	Yes	8' - 0"
BB	3	RITTLING	PIBG5	5,100 Btu/h	1 GPM	CLEAR WATER	180 °F	160 °F	Yes	8' - 0"
BB	4	RITTLING	PIBG5	1,900 Btu/h	1 GPM	CLEAR WATER	180 °F	160 °F	Yes	3' - 0"
BB	5	RITTLING	PIBG5	1,900 Btu/h	1 GPM	CLEAR WATER	180 °F	160 °F	Yes	3' - 0"
BB	6	RITTLING	PIBG5	7,600 Btu/h	1 GPM	CLEAR WATER	180 °F	160 °F	Yes	12' - 0"
BB	7	RITTLING	PIBG5	9,600 Btu/h	1 GPM	CLEAR WATER	180 °F	160 °F	Yes	15' - 0"
BB	8	RITTLING	PIBG5	9,600 Btu/h	1 GPM	CLEAR WATER	180 °F	160 °F	Yes	15' - 0"
BB	9	RITTLING	PIBG5	3,800 Btu/h	1 GPM	CLEAR WATER	180 °F	160 °F	Yes	6' - 0"
BB	10	RITTLING	PIBG5	3,800 Btu/h	1 GPM	CLEAR WATER	180 °F	160 °F	Yes	6' - 0"
BB	11	RITTLING	PIBG5	3,800 Btu/h	1 GPM	CLEAR WATER	180 °F	160 °F	Yes	6' - 0"

REMARKS:

1. PROVIDE WITH WIRED ROOM THERMOSTAT.
2. PROVIDE WITH END PANELS,TRIM, ETC. AS REQUIRED.
3. FINISH TO BE SELECTED BY ARCH.

SUBJECT TO COMPLIANCE WITH THESE SPECIFICATIONS; OTHER MANUFACTURERS THAT MAY PROVIDE EQUIPMENT INCLUDE VULCAN AND AIRTHERM.

EXHAUST FAN SCHEDULE

TAG	NUMBER	MANUFACTURER	TYPE	MODEL	MOTOR TYPE	CFM	ESP	WATTS	MOTORIZED DAMPER	VOLTAGE	PH	WEIGHT	INTERLOCK
EF	1	GREENHECK	CEILING	SP-A700-VG	VARI-GREEN	500 CFM	0.38 in-wg	135 W	Yes	120 V	1	25 lb	THERMOSTAT

REMARKS:

1. PROVIDE WITH SPEED CONTROLLER MOUNTED ON SIDE OF FAN AND SET FOR SPECIFIED CFM.
2. EXHAUST GRILLE DESIGN AND COLOR TO BE SELECTED BY THE ARCHITECT.
3. PROVIDE ALL CEILING FANS WITH BACKDRAFT DAMPER AND CEILING RADITION DAMPER.

SUBJECT TO COMPLIANCE WITH THESE SPECIFICATIONS; OTHER MANUFACTURERS THAT MAY PROVIDE EQUIPMENT INCLUDE COOK AND PENN VENTILATOR.

GRILLE AND DIFFUSER SCHEDULE

SYM	MANUFACTURER	MODEL	SIZE	FRAME STYLE	PATTERN	MATERIAL	FINISH	VOLUME DAMPER
A	PRICE	SPD	12X12	SURFACE MOUNT	REFER TO DRAWING	STEEL	SELECTED BY ARCH	NO
B	PRICE	530	14X6	SURFACE MOUNT	45 DEGREE E/A R/A	STEEL	SELECTED BY ARCH	NO
C	PRICE	530	22X22	SURFACE MOUNT	45 DEGREE E/A R/A	STEEL	SELECTED BY ARCH	NO
D	PRICE	530	12X12	SURFACE MOUNT	45 DEGREE E/A R/A	STEEL	SELECTED BY ARCH	NO
E	PRICE	530	12X4	SURFACE MOUNT	45 DEGREE E/A R/A	STEEL	SELECTED BY ARCH	NO
F	PRICE	530	16X16	SURFACE MOUNT	45 DEGREE E/A R/A	STEEL	SELECTED BY ARCH	NO
G	PRICE	LBP	10X6	FLOOR REGISTER	15A CORE	ALUMINUM	SELECTED BY ARCH	NO
H	PRICE	LBP	18X6	FLOOR REGISTER	15A CORE	ALUMINUM	SELECTED BY ARCH	NO
I	PRICE	520	14X4	SURFACE MOUNT	DOUBLE DEFLECTION	STEEL	SELECTED BY ARCH	NO
J	PRICE	530	16X24	SURFACE MOUNT	45 DEGREE E/A R/A	STEEL	SELECTED BY ARCH	NO
K	PRICE	SDS	3 SLOT- 1" WIDE- 4' LONG	SURFACE MOUNT	MULTI POSITION PATTERN CONTROLLER	ALUMINUM	SELECTED BY ARCH	NO
M	PRICE	530	20X14	SURFACE MOUNT	45 DEGREE E/A R/A	STEEL	SELECTED BY ARCH	NO
N	PRICE	530	48X12	SURFACE MOUNT	45 DEGREE E/A R/A	STEEL	SELECTED BY ARCH	NO
O	PRICE	SPD	24X24	SURFACE MOUNT	REFER TO DRAWING	STEEL	SELECTED BY ARCH	NO

1. CONTRACTOR TO COORDINATE ALL FRAME STYLES WITH CEILING CONSTRUCTION.
2. COORDINATE ALL NECK SIZES WITH DUCT DIMENSIONS INDICATED ON DRAWINGS.
3. CONTRACTOR TO SPRAY PAINT ALL EXHAUST AND RETURN AIR PLENUMS FLAT BLACK.
4. GRILLES AND DIFFUSERS SHALL NOT EXCEED NC-25.
5. PROVIDE COLOR CHART DURING SUBMITTAL PHASE FOR FINISH SELECTION.
6. PROVIDE TYPE K DIFFUSER WITH INSULATED PLENUM BOX.

LOUVER SCHEDULE

TYPE	NUMBER	MANUFACTURER	MODEL	SIZE WIDTH	SIZE HEIGHT	FREE AREA (SQFT)	SPD (IN WG)	TOTAL CFM	AIRFLOW DIRECTION
L	1	GREENHECK	ESD-435	36 in	9 in	.54	<.10	500	EXHAUST
L	2	GREENHECK	ESD-435	18 in	12 in	.49	<.10	300	EXHAUST

REMARKS:

1. HEAVY GAUGE EXTRUDED ALUMINUM.
2. DRAINABLE BLADE DESIGN WITH STATIONARY BLADES.
3. FLATTENED EXPANDED ALUMINUM BIRDSCREEN.
4. BAKED ENAMEL FINISH: COLOR SELECTED BY ARCHITECT.

SUBJECT TO COMPLIANCE WITH THESE SPECIFICATIONS; OTHER MANUFACTURERS THAT MAY PROVIDE EQUIPMENT INCLUDE LLOYD AND ARROW.

HUMIDIFIER SCHEDULE

TAG	NUMBER	MANUFACTURER	MODEL	AIRFLOW	CAPACITY (LBS/HR)	VOLTAGE	PHASE	MCA	MOCP	WEIGHT
H	1	CAREL	UR002HU1U4	113 CFM	4.4	208 V	1			40 lb
H	2	CAREL	UR002HU1U4	113 CFM	4.4	208 V	1			40 lb

REMARKS:

1. PROVIDE WITH WIRED ROOM HIMDISTAT.
2. PROVIDE WITH DRAIN TEMPERING VALVE.
3. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

SUBJECT TO COMPLIANCE WITH THESE SPECIFICATIONS; OTHER MANUFACTURERS THAT MAY PROVIDE EQUIPMENT INCLUDE DRI STEEM AND APRILAIRE.

HW CABINET HEATER SCHEDULE

TAG	NUMBER	MANUFACTURER	MODEL	BTUH	GPM	EWT	LWT	FLUID	WPD	2WAY	CFM	EAT	LAT	HP	VOLTAGE	PHASE
CH	1	STERLING	F-1000-3	33,000 Btu/h	2 GPM	180 °F	150 °F	CLEAR WATER	0.38 ftH2O	Yes	330 CFM	60 °F	150 °F	0.10 hp	120 V	1
CH	2	STERLING	F-1000-3	33,000 Btu/h	2 GPM	180 °F	150 °F	CLEAR WATER	0.38 ftH2O	Yes	330 CFM	60 °F	150 °F	0.10 hp	120 V	1
CH	3	COMFORTWAVE/EMI	CAW_12	17,000 Btu/h	2 GPM	180 °F	150 °F	CLEAR WATER	2 ftH2O	Yes	360 CFM	60 °F	104 °F	0.10 hp	120 V	1

REMARKS:

1. FACTORY APPLIED FINISH IN A COLOR SELECTED BY THE ARCHITECT.
2. PROVIDE WITH FILTERS.
3. PROVIDE WITH SPEED CONTROLLER WITH INTEGRAL DISCONNECT SWITCH.
4. PROVIDE WITH WIRED ROOM THERMOSTAT.

PROVIDE WITH ECM MOTOR.

SUBJECT TO COMPLIANCE WITH THESE SPECIFICATIONS; OTHER MANUFACTURERS THAT MAY PROVIDE EQUIPMENT INCLUDE TRANE AND CARRIER.

DUCTLESS SPLIT OUTDOOR UNIT SCHEDULE

TAG	NUMBER	MANUFACTURER	MODEL	EFF	VOLTAGE	PHASE	MCA	RECOMMENDED BREAKER SIZE	WEIGHT
HP	1	MITSUBISHI	PUZ-HA36NKA	17.1 SEER	208 V	1	24 A	35 A	300 lb
HP	2	MITSUBISHI	MXZ-3C30NA3	19 SEER	208 V	1	22.1 A	25 A	200 lb
HP	3	MITSUBISHI	PUZ-HA36NKA	17.1 SEER	208 V	1	24 A	35 A	300 lb
HP	4	MITSUBISHI	PUZ-HA36NKA	17.1 SEER	208 V	1	24 A	35 A	300 lb
HP	5	MITSUBISHI	PUZ-HA36NKA	17.1 SEER	208 V	1	24 A	35 A	300 lb
HP	6	MITSUBISHI	PUZ-HA36NKA	21.1 SEER	208 V	1	24 A	35 A	300 lb
HP	7	MITSUBISHI	PUZ-A42NKA7	16.1 SEER	208 V	1	25 A	30 A	300 lb
HP	8	LG	LMU48SHV	19.3 SEER	208 V	1	25 A	40 A	250 lb
HP	9	MITSUBISHI	MXZ-2C20NA3	20 SEER	208 V	1	17.2 A	20 A	200 lb
HP	10	MITSUBISHI	MUFZ-KJ09NAHZ	28.2 SEER	208 V	1	11 A	15 A	100 lb
HP	11	MITSUBISHI	PUZ-HA30NKA	18 SEER	208 V	1	24 A	35 A	300 lb
HP	12	MITSUBISHI	SUZ-KA12NAHZ	19 SEER	208 V	1	14 A	15 A	100 lb
HP	13	MITSUBISHI	MXZ-SM36NAM	23 SEER	208 V	1	35 A	50 A	300 lb
HP	14	MITSUBISHI	PUZ-A30NHA7	19.8 SEER	208 V	1	19 A	25 A	200 lb
HP	15	MITSUBISHI	MXZ-SM36NAM	23 SEER	208 V	1	35 A	50 A	300 lb
HP	16	MITSUBISHI	PUZ-A42NKA7	18 SEER	208 V	1	25 A	30 A	300 lb
HP	17	MITSUBISHI	PUZ-A42NKA7	18 SEER	208 V	1	25 A	30 A	300 lb
HP	18	MITSUBISHI	PUZ-A24NHA7	19.8 SEER	208 V	1	19 A	25 A	100 lb

MITSUBISHI UNIT REMARKS:

1. PROVIDE WITH 7 YEAR COMPRESSOR WARRANTY.
2. REFRIGERANT PIPE SIZES, BALL VALVES, ACCESSORIES, AND ARRANGEMENTS PER MANUFACTUERS RECOMMENDATIONS.
3. PROVIDE REFRIGERANT CHARGE (R-410A).
4. ALL UNITS TO INCLUDE MODULATING INVERTER DRIVEN COMPRESSORS.
5. OUTDOOR REFRIGERANT CIRCUIT ACCESS PORTS SHALL BE FITTED WITH LOCKING TYPE TAMPER-RESISTANT CAPS.
6. PROVIDE WITH WIND BAFFLE KIT.

SUBJECT TO COMPLIANCE WITH THESE SPECIFICATIONS; OTHER MANUFACTURERS THAT MAY PROVIDE EQUIPMENT INCLUDE DAIKIN AND FUJITSU.

DUCTLESS SPLIT INDOOR UNIT SCHEDULE

TAG	NUMBER	MANUFACTURER	MODEL	DX COOLING DATA MAXIMUM	DX COOLING DATA MINIMUM	HEATING BTUH	FAN DATA SUPPLY ESP	FAN DATA SUPPLY CFM (HIGH SPEED)	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PH	ELECTRICAL DATA MCA	MATCH WITH
SS	1	MITSUBISHI	PEAD-A36AA7	36,000 Btu/h	15,600 Btu/h	38,000 Btu/h	0.60 in-wg	1,081 CFM	208 V	1	3.3 A	HP-1
SS	2	MITSUBISHI	MSZ-FS06NA	6,000 Btu/h		8,700 Btu/h		328 CFM	208 V	1	1 A	HP-2
SS	3	MITSUBISHI	PEAD-A36AA7	36,000 Btu/h	15,600 Btu/h	38,000 Btu/h	0.60 in-wg	1,081 CFM	208 V	1	3.3 A	HP-3
SS	4	MITSUBISHI	PEAD-A36AA7	36,000 Btu/h	15,600 Btu/h	38,000 Btu/h	0.60 in-wg	1,081 CFM	208 V	1	3.3 A	HP-4
SS	5	MITSUBISHI	MSZ-FS06NA	6,000 Btu/h		8,700 Btu/h		328 CFM	208 V	1	1 A	HP-2
SS	6	MITSUBISHI	PEAD-A36AA7	36,000 Btu/h	15,600 Btu/h	38,000 Btu/h	0.60 in-wg	1,081 CFM	208 V	1	3.3 A	HP-5
SS	7	MITSUBISHI	MSZ-FS06NA	6,000 Btu/h		8,700 Btu/h		328 CFM	208 V	1	1 A	HP-2
SS	8	MITSUBISHI	PEAD-A12AA7	12,000 Btu/h	5,000 Btu/h	10,500 Btu/h	0.60 in-wg	455 CFM	208 V	1	1.5 A	HP-6
SS	9	MITSUBISHI	PVA-A42AA7	42,000 Btu/h	16,000 Btu/h	31,400 Btu/h	0.80 in-wg	1,443 CFM	208 V	1	3.5 A	HP-7
SS	10	LG	LMAN127HVP	12,100 Btu/h		5,300 Btu/h		315 CFM	208 V	1	1 A	HP-8
SS	11	LG	LMAN127HVP	12,100 Btu/h		5,300 Btu/h		315 CFM	208 V	1	1 A	HP-8
SS	12	MITSUBISHI	MFZ-KJ09NA	9,000 Btu/h		11,000 Btu/h		117 CFM	208 V	1	1 A	HP-9
SS	13	LG	LMAN127HVP	12,100 Btu/h		5,300 Btu/h		315 CFM	208 V	1	1 A	HP-7
SS	14	LG	LMAN127HVP	12,100 Btu/h		5,300 Btu/h		315 CFM	208 V	1	1 A	HP-8
SS	15	MITSUBISHI	MFZ-KJ09NA	14,000 Btu/h	2,300 Btu/h	13,400 Btu/h		354 CFM	208 V	1	1 A	HP-10
SS	16	MITSUBISHI	MFZ-KJ09NA	9,000 Btu/h		11,000 Btu/h		117 CFM	208 V	1	1 A	HP-9
SS	17	MITSUBISHI	PVA-A30AA7	30,000 Btu/h	14,800 Btu/h	32,000 Btu/h	0.80 in-wg	875 CFM	208 V	1	4.1 A	HP-11
SS	18	MITSUBISHI	SVZ-KP12NA	12,000 Btu/h	5,600 Btu/h	15,000 Btu/h	0.80 in-wg	400 CFM	208 V	1	3 A	HP-12
SS	19	MITSUBISHI	MFZ-KJ18NA	17,000 Btu/h		21,000 Btu/h		168 CFM	208 V	1	1 A	HP-13
SS	20	MITSUBISHI	MFZ-KJ18NA	17,000 Btu/h		21,000 Btu/h		168 CFM	208 V	1	1 A	HP-13
SS	21	MITSUBISHI	PKA-A30KA7	30,000 Btu/h	9,000 Btu/h	21,000 Btu/h		700 CFM	208 V	1	1 A	HP-14
SS	22	MITSUBISHI	MFZ-KJ09NA	9,000 Btu/h		11,000 Btu/h		117 CFM	208 V	1	1 A	HP-15
SS	23	MITSUBISHI	MFZ-KJ09NA	9,000 Btu/h		11,000 Btu/h		117 CFM	208 V	1	1 A	HP-15
SS	24	MITSUBISHI	MFZ-KJ09NA	9,000 Btu/h		11,000 Btu/h		117 CFM	208 V	1	1 A	HP-15
SS	25	MITSUBISHI	MFZ-KJ09NA	9,000 Btu/h		11,000 Btu/h		117 CFM	208 V	1	1 A	HP-15
SS	26	MITSUBISHI	PVA-A42AA7	42,000 Btu/h	16,000 Btu/h	31,400 Btu/h	0.80 in-wg	1,485 CFM	208 V	1	3.5 A	HP-16
SS	27	MITSUBISHI	PVA-A42AA7	42,000 Btu/h	16,000 Btu/h	31,400 Btu/h	0.80 in-wg	1,485 CFM	208 V	1	3.5 A	HP-17
SS	28	MITSUBISHI	PKA-24KA7	24,000 Btu/h	10,000 Btu/h	15,200 Btu/h		700 CFM	208 V	1	1 A	HP-18

REMARKS:

1. PROVIDE UNITS WITH FILTERS.
2. PROVIDE ALL UNITS WITH ONE YEAR PARTS WARRANTY.
3. PROVIDE INDOOR UNITS WITH FACTORY INSTALLED CONDENSATE PUMPS WITH SECONDARY DRAIN LEVEL SENSOR. PROVIDE ONE ADDITIONAL CONDENSATE PUMP TO BE TURNED OVER TO THE OWNER.
4. CONTRACTOR SHALL BE FACTORY CERTIFIED FOR THE INSTALLATION OF THE SYSTEM. PROVIDE COPY OF CERTIFICATION AS PART OF THE SUBMITTAL PROCESS.
5. INDOOR UNIT POWERED FROM OUTDOOR UNIT.
6. PROVIDE WITH WIRED WALL MOUNTED CONTROLLER.
7. PROVIDE PAC-US444CN-1 THERMOSTAT INTERFACE AND ALL WIRING REQUIRED FOR SS UNITS ALSO CONTROL BB HEAT. REFER TO SPECIFICATION 230901 FOR ADDITIONAL INFORMATION.

SUBJECT TO COMPLIANCE WITH THESE SPECIFICATIONS; OTHER MANUFACTURERS THAT MAY PROVIDE EQUIPMENT INCLUDE DAIKIN AND FUJITSU.

GAS DX PACKAGED HVAC UNIT SCHEDULE

TAG	NUMBER	MANUFACTURER	MODEL	SUPPLY AIR	OUTSIDE AIR	ENERGY RECOVERY	ENERGY RECOVERY AIRFLOW INTAKE	EXHAUST	BYPASS	AMBIENT SUMMER DB	AMBIENT SUMMER WB	AMBIENT WINTER DB	AMBIENT WINTER WB	LEAVING AIR SUMMER DB	LEAVING AIR SUMMER WB	LEAVING AIR WINTER DB	LEAVING AIR WINTER WB	FAN DATA SUPPLY ESP	FAN DATA SUPPLY HP	FAN DATA EXHAUST ESP	FAN DATA EXHAUST HP	GAS HEATING DATA INPUT	GAS HEATING DATA OUTPUT	GAS HEATING DATA MINIMUM GAS PRESSURE	DX COOLING DATA TOTAL	DX COOLING DATA SENSIBLE	DX COOLING DATA EFF	ELECTRICAL DATA VOLTAGE	ELECTRICAL DATA PH	ELECTRICAL DATA MCA	ELECTRICAL DATA MOCP	WEIGHT
RT	1	AAON	RN-007	1,875 CFM	1,875 CFM	Yes	1,875 CFM	1,875 CFM	0 CFM	95 °F	75 °F	0 °F	-1 °F	79.9 °F	66.1 °F	43.5 °F	40.3 °F	1.25 in-wg	2 hp	0.50 in-wg	2 hp	150,000 Btu/h	120,000 Btu/h	6.00 in-wg	129,300 Btu/h	67,560 Btu/h	16.3 EER	208 V	3	44 A	60 A	1,800 lb

REMARKS:

1. PROVIDE WITH 18" HIGH WIND RATED ROOF CURB. PROVIDE SIGNED AND SEALED CALCULATIONS.
2. PROVIDE WITH MERV 8 FILTERS.
3. ENTIRE UNITS SHALL BE 2" DOUBLE WALL CONSTRUCTION WITH FOAM INSULATION.
4. PROVIDE WITH ECONOMIZER OPERATION.
5. PROVIDE WITH THROUGH THE BASE GAS AND ELECTRICAL CONNECTIONS.
6. PROVIDE WITH FACTORY INSTALLED AND WIRED 120V, 1PH POWER TRANSFORMER AND SERVICE RECEPTACLE WIRED TO LINE SIDE OF UNIT DISCONNECT.
7. PROVIDE WITH NON-FUSED DISCONNECT.
8. PROVIDE WITH PHASE LOSS PROTECTION.
9. PROVIDE WITH VARIABLE CAPACITY SCROLL COMPRESSOR.
10. PROVIDE WITH MODULATING HOT GAS REHEAT.
11. PROVIDE WITH HIGH TURN DOWN, MODULATING GAS HEAT (8:1)
12. PROVIDE WITH PREMIMUM EFFECIENCY, DIRECT DRIVE SUPPLY AND EXHAUST FAN MOTORS WITH VFDS FOR BALANCING AIRFLOW.
13. PROVIDE ECM CONDENSER FANS WITH HEAD PRESSURE CONTROL.
14. PROVIDE WITH STAINLESS STEEL DRAIN PAN.
15. PROVIDE WITH STAINLESS STEEL GAS FIRED HEAT EXCHANGER.
16. PROVIDE WITH ENTHALPY CONTROLLED ECONOMIZER.
17. PROVIDE WITH FACTORY INSTALLED CONTROLS FOR STAND ALONE OPERATION.
18. PROVIDE WITH FACTORY INSTALLED AND TESTED HEAT WHEEL.

SUBJECT TO COMPLIANCE WITH THESE SPECIFICATIONS; OTHER MANUFACTURERS THAT MAY PROVIDE EQUIPMENT INCLUDE DAIKIN AND VALENT.

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SEAL

SIGNATURE

Monroe County Historical Association
Alteration & Heritage Center Addition
900 Main Street - Stroudsburg, PA 18360

REVISIONS

01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE

SCHEDULES

PROJECT NUMBER

16.200

DRAWN BY

JCF

SCALE

DATE

01.26.23

DRAWING NUMBER

M600

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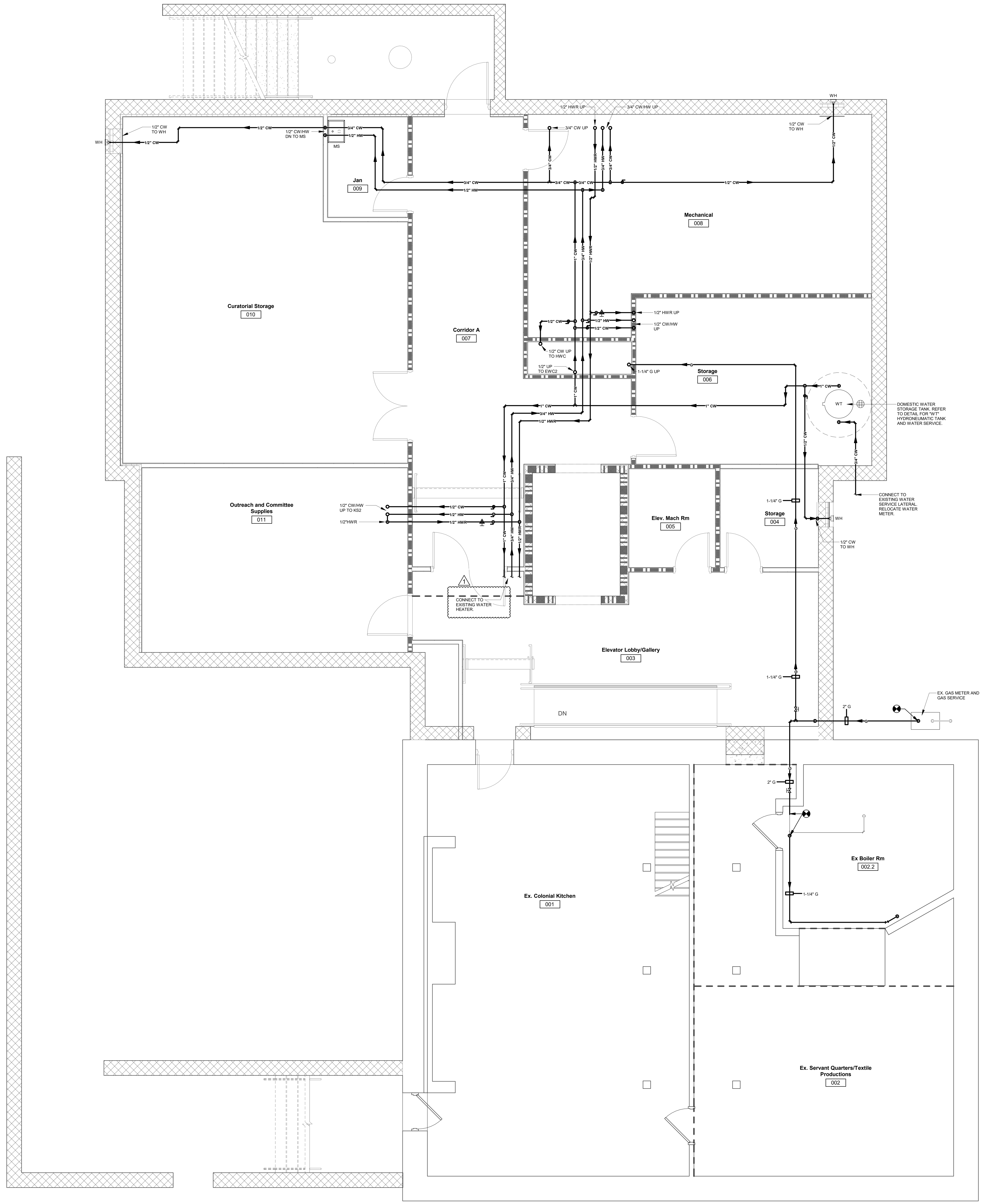
TN P.E. # 122348 — CT P.E. # 34352
SC P.E. # 39067 — MD P.E. # 38304
CO P.E. # 42950 — KY P.E. # 33454

JCF drawn | JCF designed | CTS checked
drawing not valid without authorized sae signature

SAE Project No: FHC-14619



1 Basement Plan - Domestic Water/Gas

SCALE 4' 0 8' 16' 24'

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TN P.E. # 123268 CT P.E. # 34352
SC P.E. # 39067 MD P.E. # 58304
CO P.E. # 60950 KY P.E. # 35456

MRK drawn | MRK designed | CTS checked
drawing not valid without authorized sae signatures

SAE Project No: FHC-14619

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No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
Basement Plan - Domestic Water/Gas

PROJECT NUMBER
16.200

DRAWN BY
MRK

SCALE
1/4" = 1'-0"

DATE
01.26.23

DRAWING NUMBER
P100

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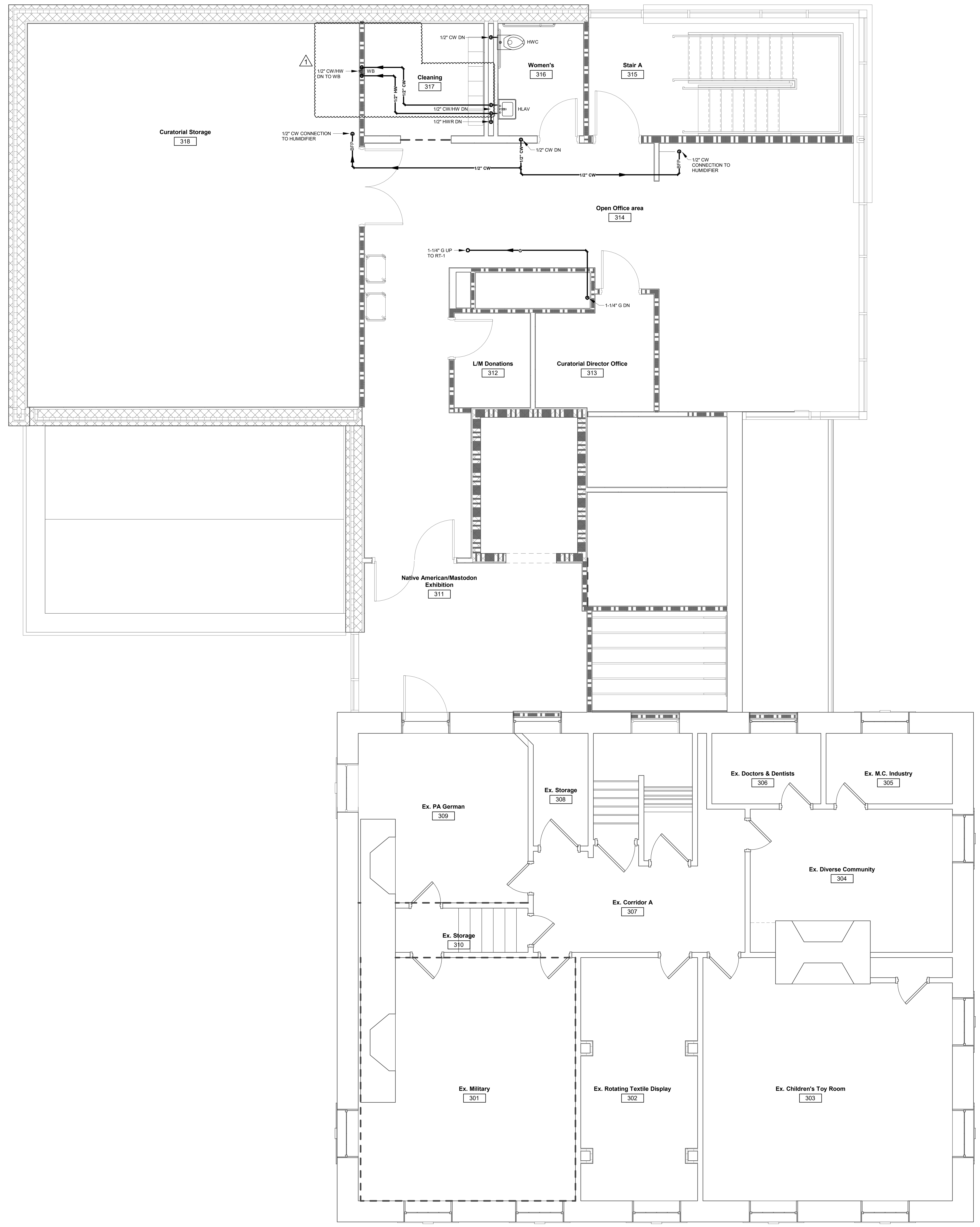

1 3rd Floor Plan - Domestic Water/Gas

SCALE 4' 0 8' 16' 24'

MKSD architects

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Monroe County Historical Association Alteration & Heritage Center Addition

900 Main Street - Stroudsburg, PA 18360

REVISIONS

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No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE

3rd Floor Plan - Domestic Water/Gas

PROJECT NUMBER 16.200

DRAWN BY MRK

SCALE 1/4" = 1'-0"

DATE 01.26.23

DRAWING NUMBER

P103

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TN P.E. # 123268 CT P.E. # 34352
SC P.E. # 39067 MD P.E. # 58304
CO P.E. # 60950 KY P.E. # 35456

Strunk-Albert Engineering
Engineered Systems and Building Consultants

MRK	MRK	CTS
drawn	designed	checked

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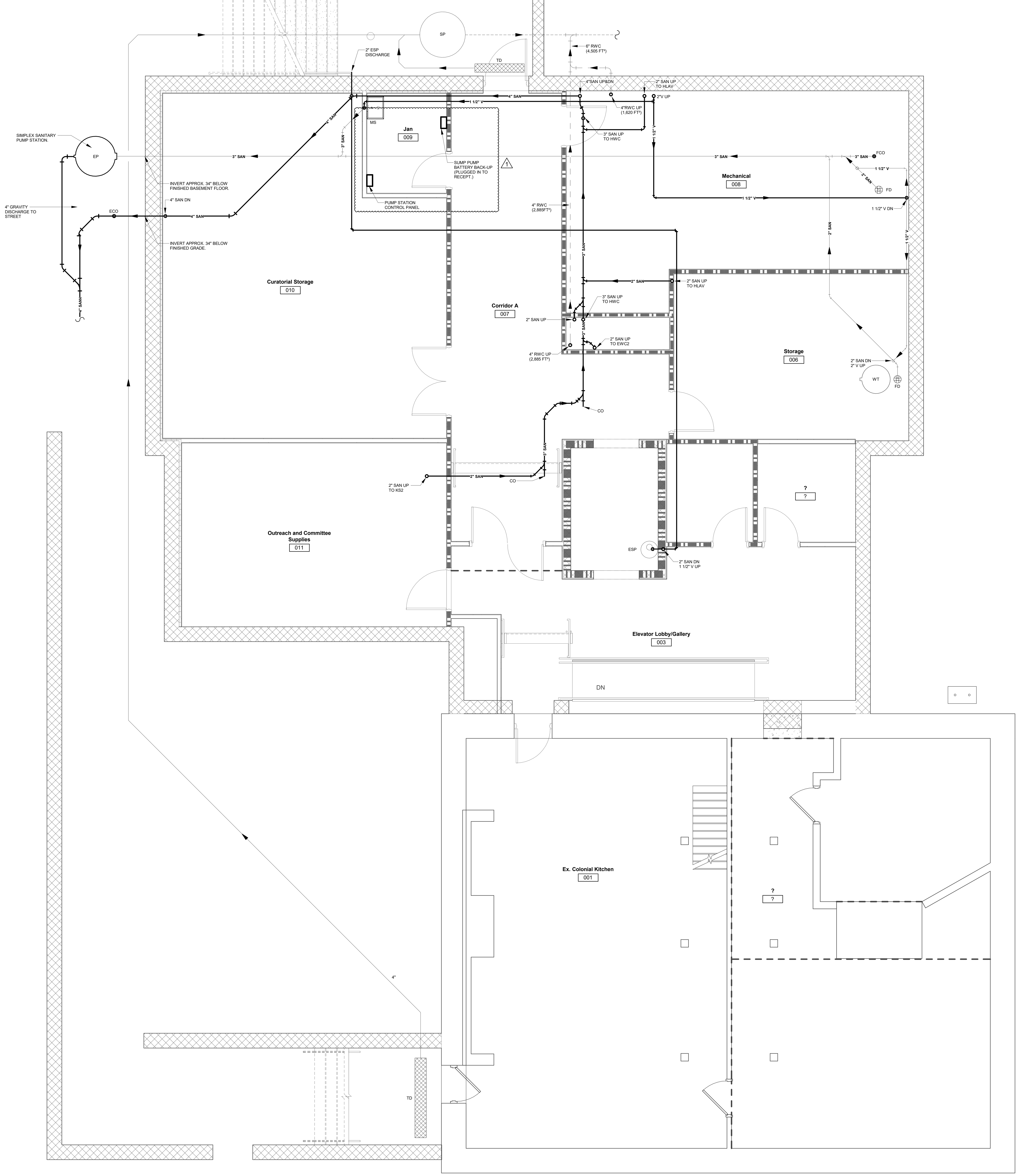
SAE Project No: FHC-14619



1 Basement Plan - Sanitary/Vent
SCALE
4' 0 8' 16' 24'

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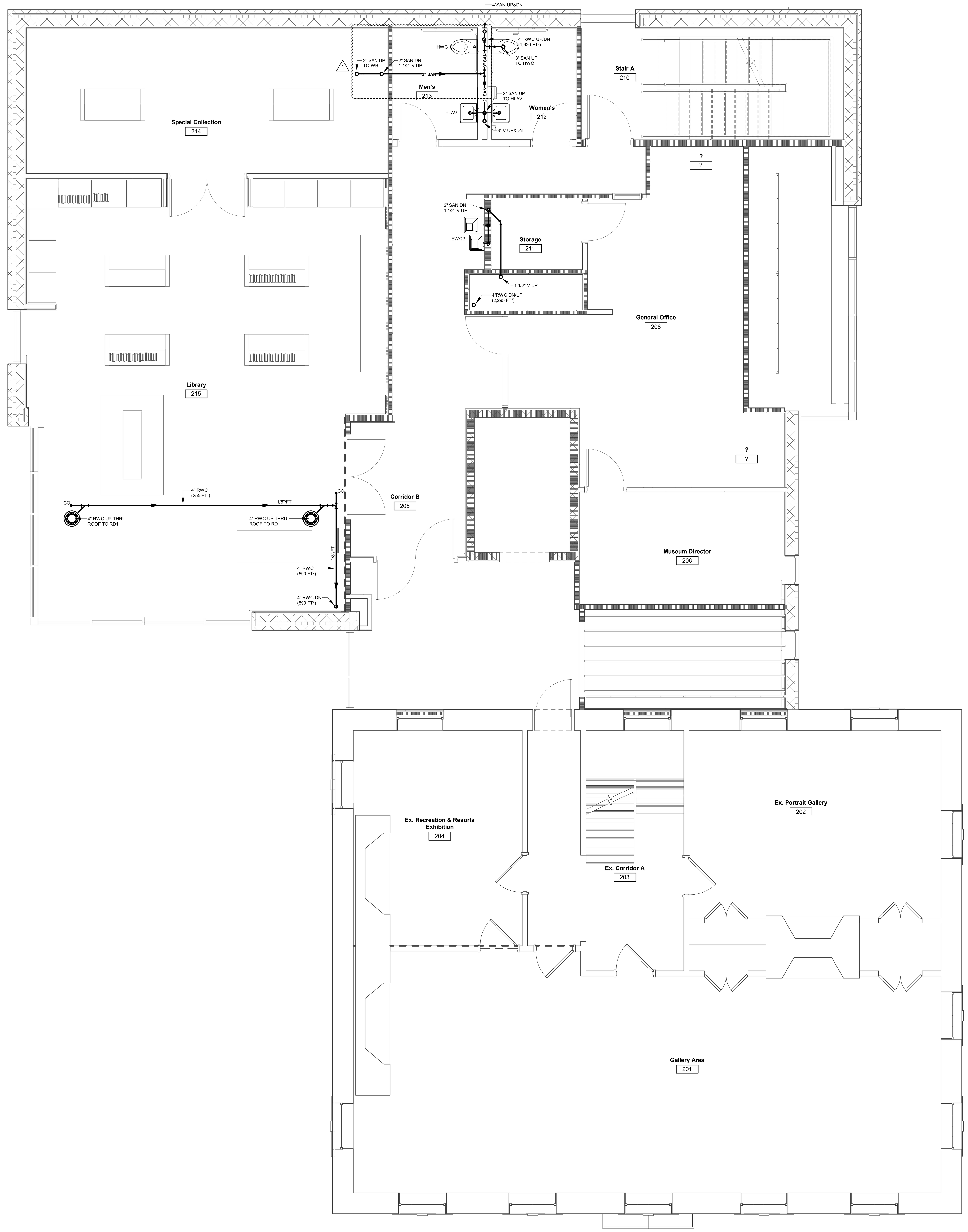
DRAWING TITLE
Basement Plan - Sanitary/Vent

PROJECT NUMBER
16.200
DRAWN BY
MRK
SCALE
1/4" = 1'-0"
DATE
01.26.23
DRAWING NUMBER
P200



1 2nd Floor Plan - Sanitary/Vent
SCALE
4' 0 8' 16' 24'

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DRAWING TITLE

2nd Floor Plan - Sanitary/Vent

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16.200
DRAWN BY
MRK
SCALE
1/4" = 1'-0"
DATE
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DRAWING NUMBER
P202

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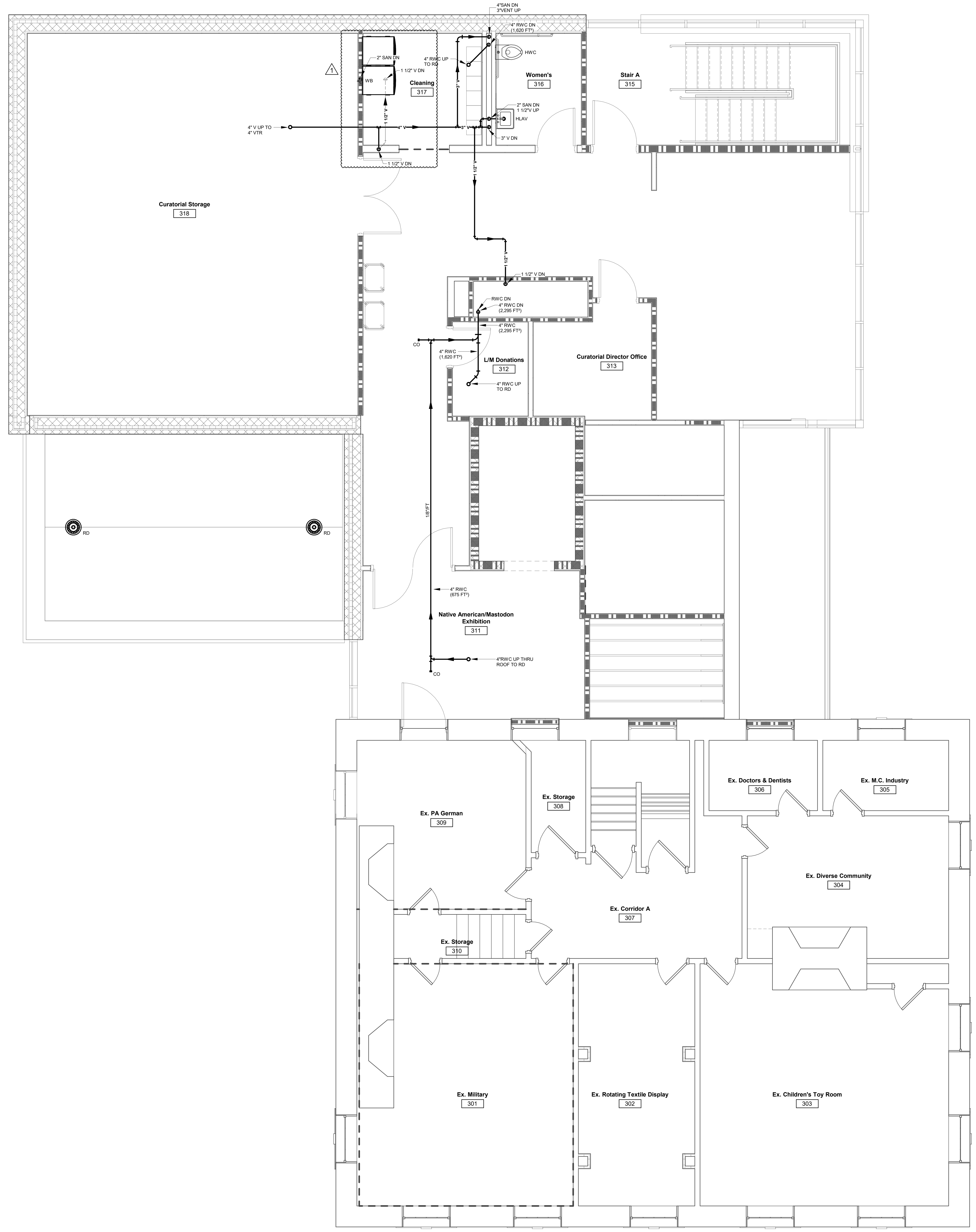

1 **3rd Floor Plan - Sanitary/Vent**

SCALE

4' 0 8' 16' 24'

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PROJECT NUMBER
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SCALE
1/4" = 1'-0"

DATE
01.26.23

DRAWING NUMBER

P203

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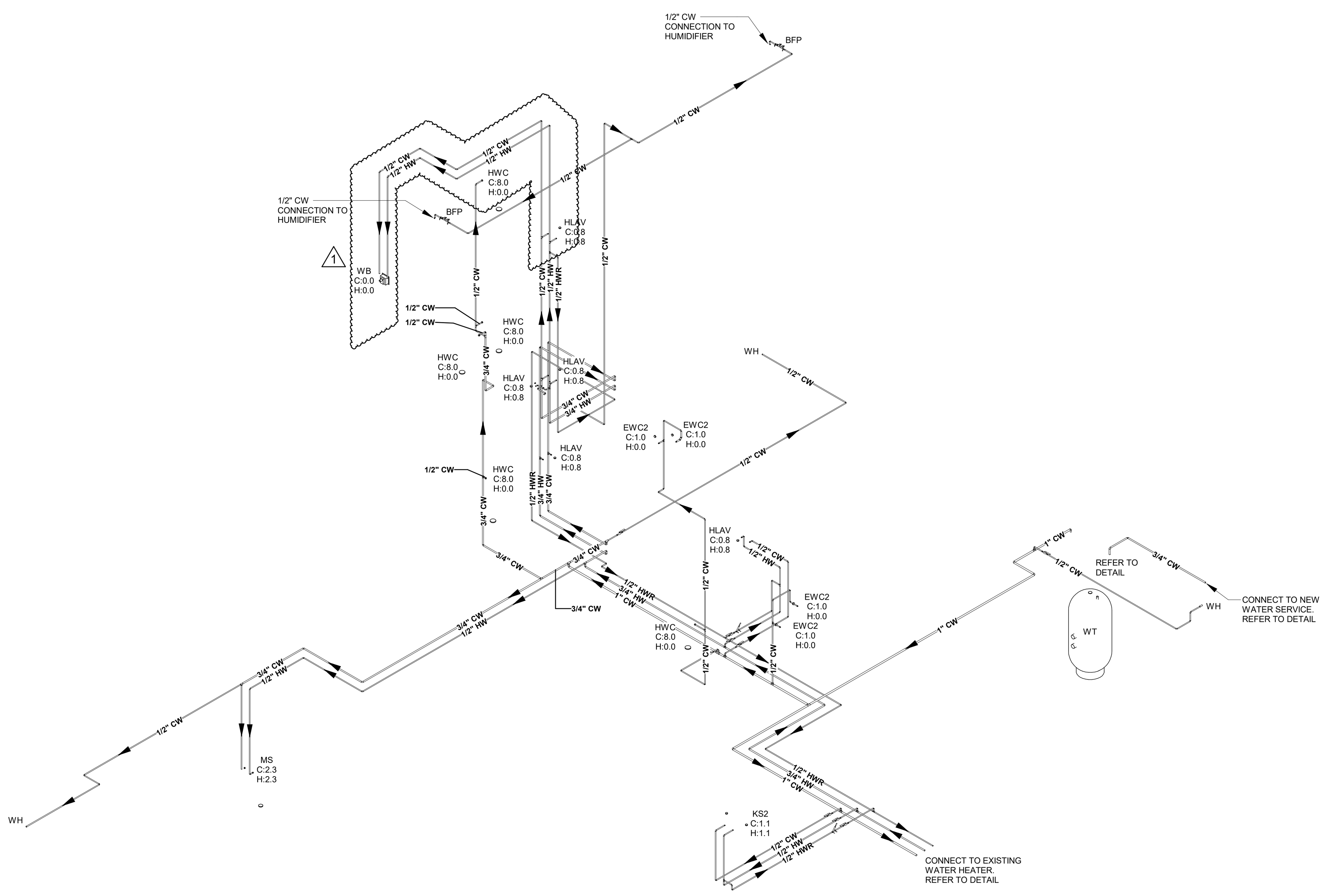
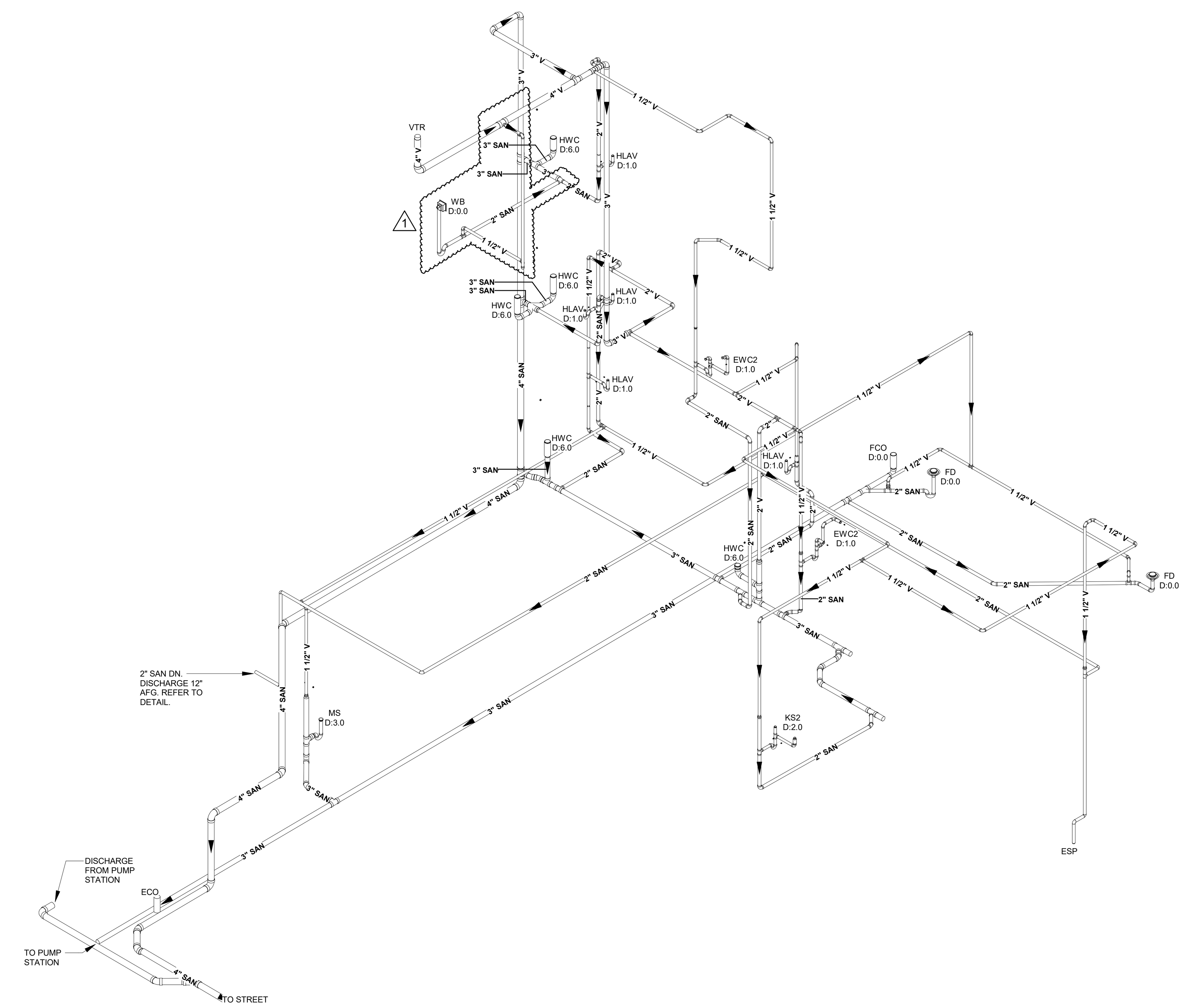


1 DOMESTIC WATER RISER DIAGRAM
NO SCALE



2 SANITARY/VENT RISER DIAGRAM
NO SCALE

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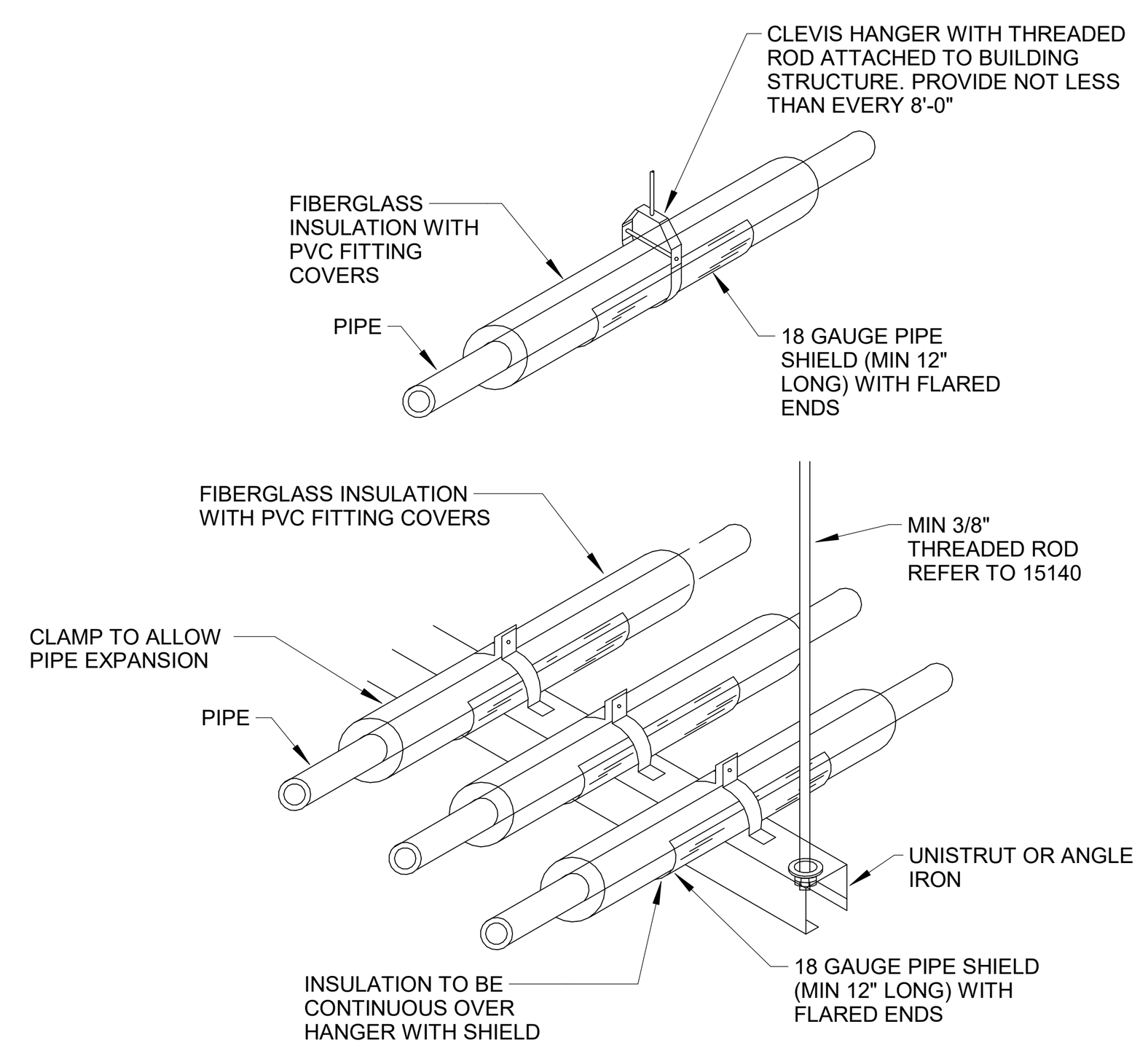
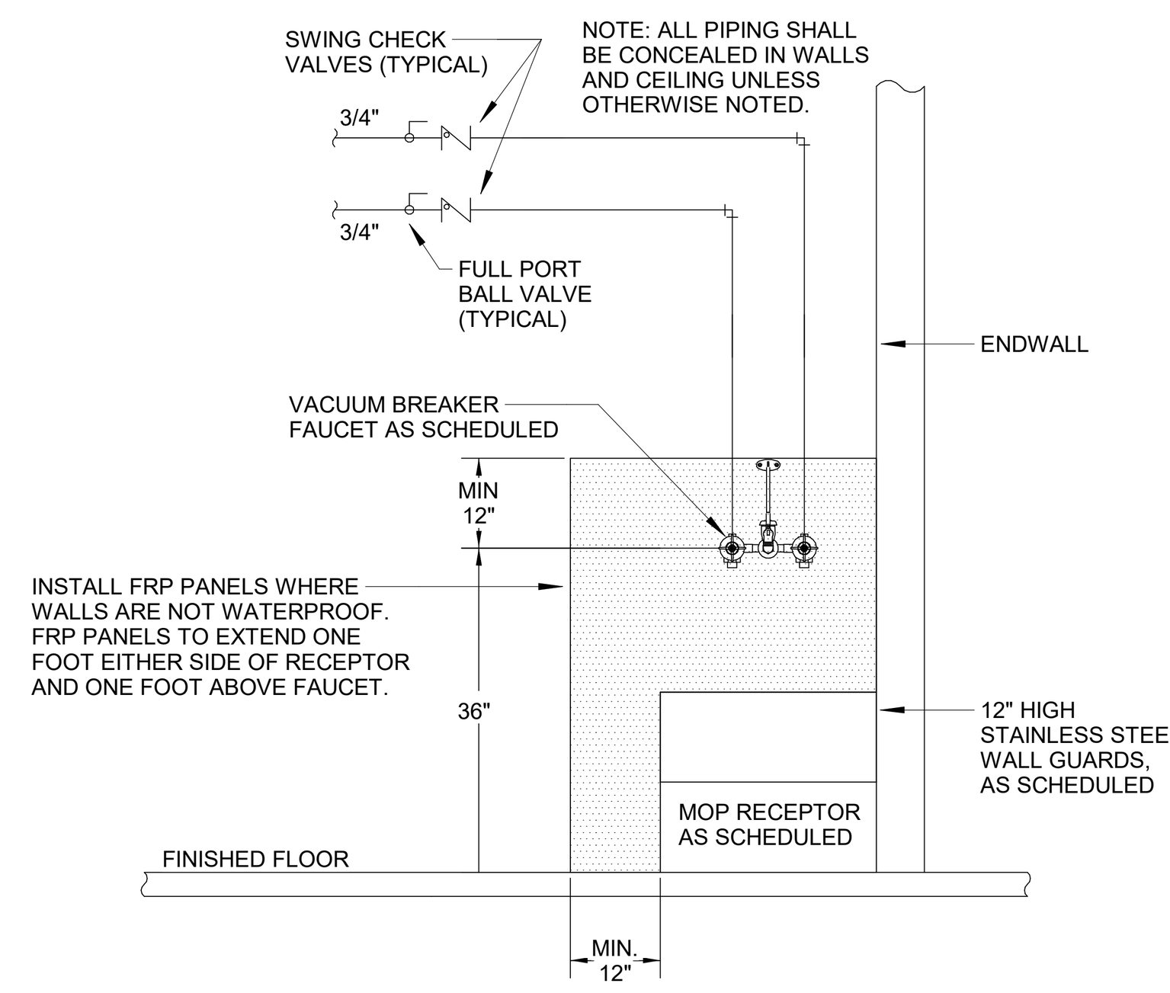


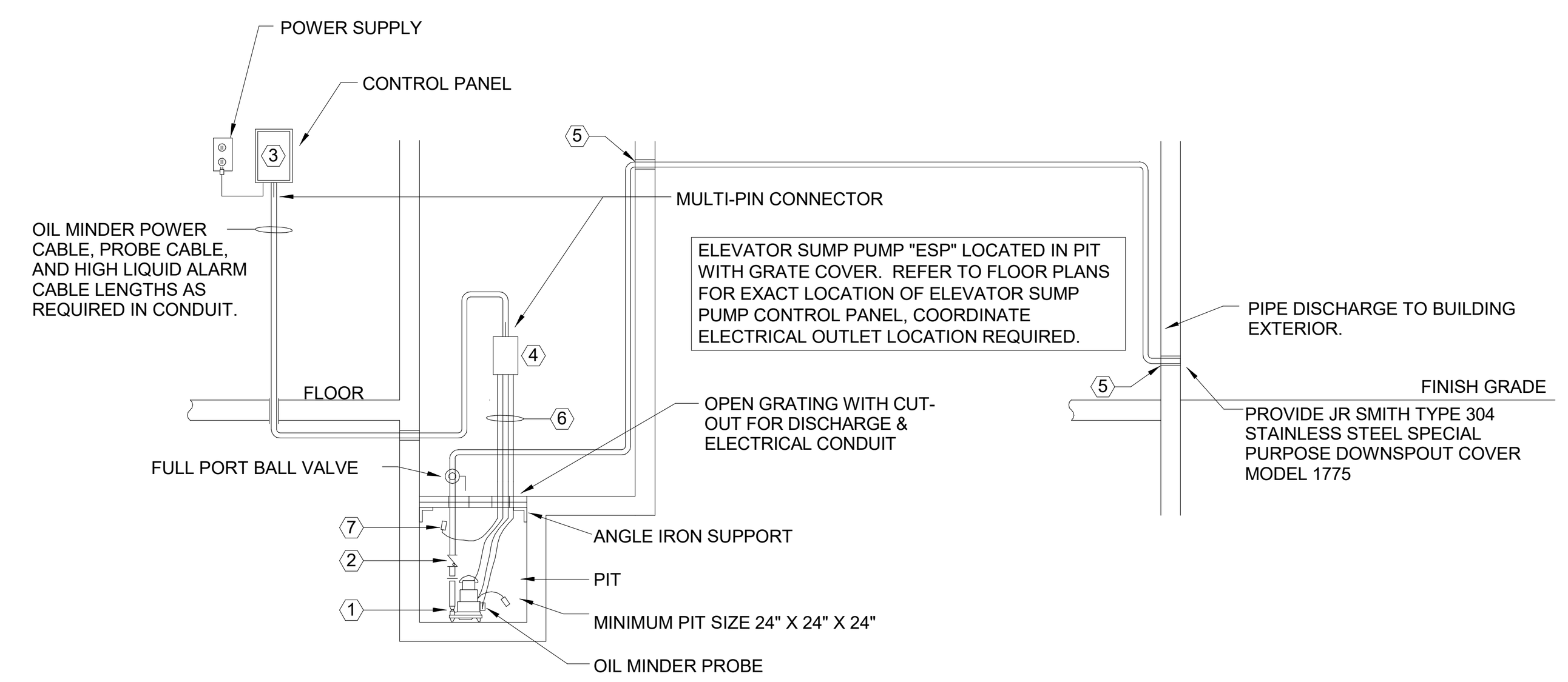
MULTI-PIPE INSTALLATION:

THE PIPING SUPPORT RACKS ARE TO BE MANUFACTURED BY B-LINE. PROVIDE ALL NECESSARY CHANNELS, POSTS, POST BASES, CORNER ANGLES, ETC. AS REQUIRED FOR A COMPLETE SYSTEM. DRAWING IS DIAGRAMMATIC. EXACT REQUIREMENTS SHALL BE CONFIRMED WITH B-LINE PRIOR SUBMITTAL OF COMPONENTS. ALL PARTS SHALL BE SIZED TO ADEQUATELY SUPPORT THE FILLED LOAD OF ALL THE DOMESTIC WATER PIPING. THE SYSTEM SHALL BE HOT-DIPPED GALVANIZED. THE DISTANCE BETWEEN PIPE SUPPORTS SHALL BE A MAXIMUM OF 8 FT OR AS RECOMMENDED BY B-LINE AND THE PLUMBING CODE.

1 TYPICAL PIPING HANGER DETAIL
NO SCALE

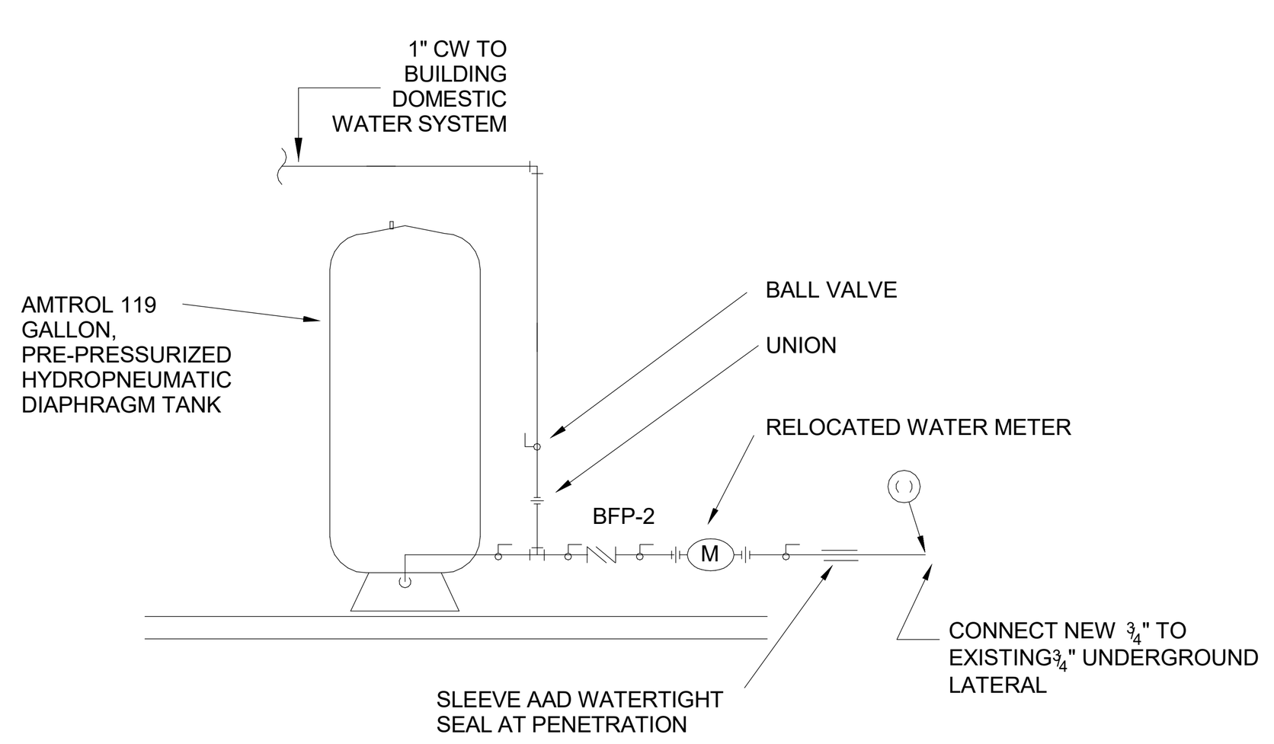


2 TYPICAL MOP RECEPTOR PIPING DETAIL
NO SCALE

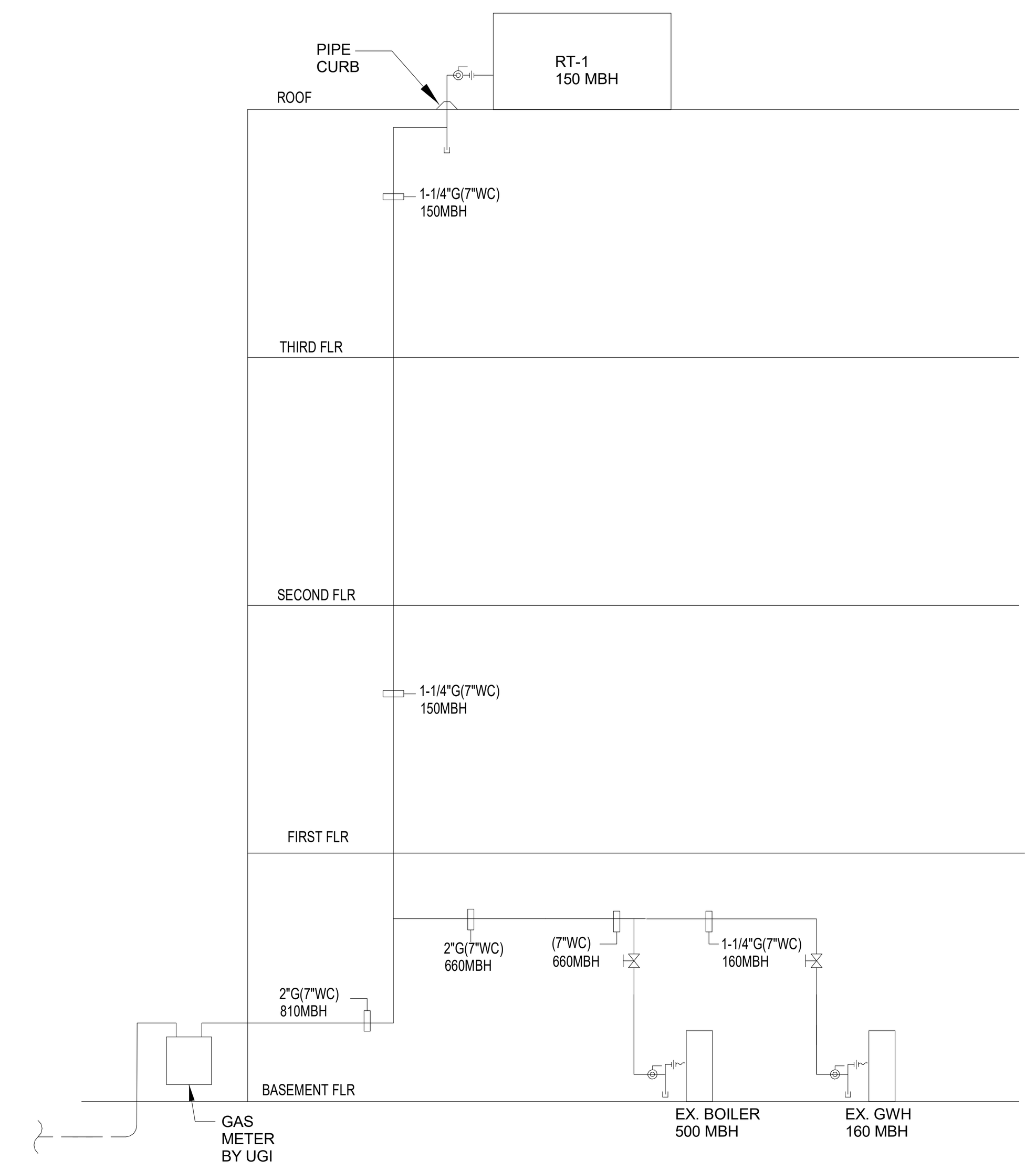


1. STANCOR MODEL SE-50 SUBMERSIBLE EFFLUENT PUMP .5 HP, 115 VOLT, 3600 RPM, 2" DISCHARGE CONNECTION.
2. STANCOR CHECK VALVE.
3. STANCOR OIL-MINDER 115V, 1Ø CONTROL SYSTEM WITH OPTIONAL BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR AND CORD IN LENGTHS AS REQUIRED, 25 FT. STANDARD, OPTIONAL 25 FT. INCREMENTS. LIGHTS FOR OIL SPILL, POWER, HIGH LIQUID LEVEL, OVERLOAD, & PUMP RUN, BY PC.
4. JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR AND CORD IN LENGTHS AS REQUIRED; 16 FT. IS STANDARD, OPTIONAL 16 FT. INCREMENTS AVAILABLE.
5. 2" NO-HUB CAST IRON PIPE SEALED WATERTIGHT. ALL BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CT CORROSION PROTECTION TAPE.
6. OIL-MINDER CABLE, POWER CABLE, PROBE CABLE, HIGH LIQUID ALARM CABLE, AND PUMP ON FLOAT CABLE.
HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING.
7.

3 ELEVATOR SUMP PUMP DETAIL
NO SCALE



4 WATER SERVICE DETAIL
NO SCALE



5 NATURAL GAS RISER DIAGRAM
NO SCALE

GAS FIRED EQUIPMENT		
EQUIPMENT	NOMINAL CAPACITY (MBH)	GAS PRESSURE RANGE
RTU-1	150	6"-13"
EX. BOILER	500	6"-13"
EX. GWH	160	6"-13"
TOTAL CONNECTED LOAD:	810 MBH	
LOAD INFORMATION:		
HEATING		650 MBH
DOMESTIC WATER HEATING (GWH)		160 MBH
		TOTAL CONNECTED LOAD: 810 MBH

SYSTEM DESIGN:
2018 FUEL GAS CODE
7" W.C. DISTRIBUTION:
TABLE 402.4(1)
SCHEDULE 40 METALLIC PIPE
GAS NATURAL
INLET PRESSURE <2.0 PSI
PRESSURE DROP .3 PSI
SPECIFIC GRAVITY 0.60

DESIGN DEVELOPED LENGTH FOR BUILDING IS +/-150'.

NOTE:

ALL ABOVEGROUND GAS PIPING MATERIALS SHALL BE ASTM A 53, SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE-IRON THREADED FITTINGS. INSTALL A DRIP LEG AT POINTS WHERE CONDENSATE MAY COLLECT.

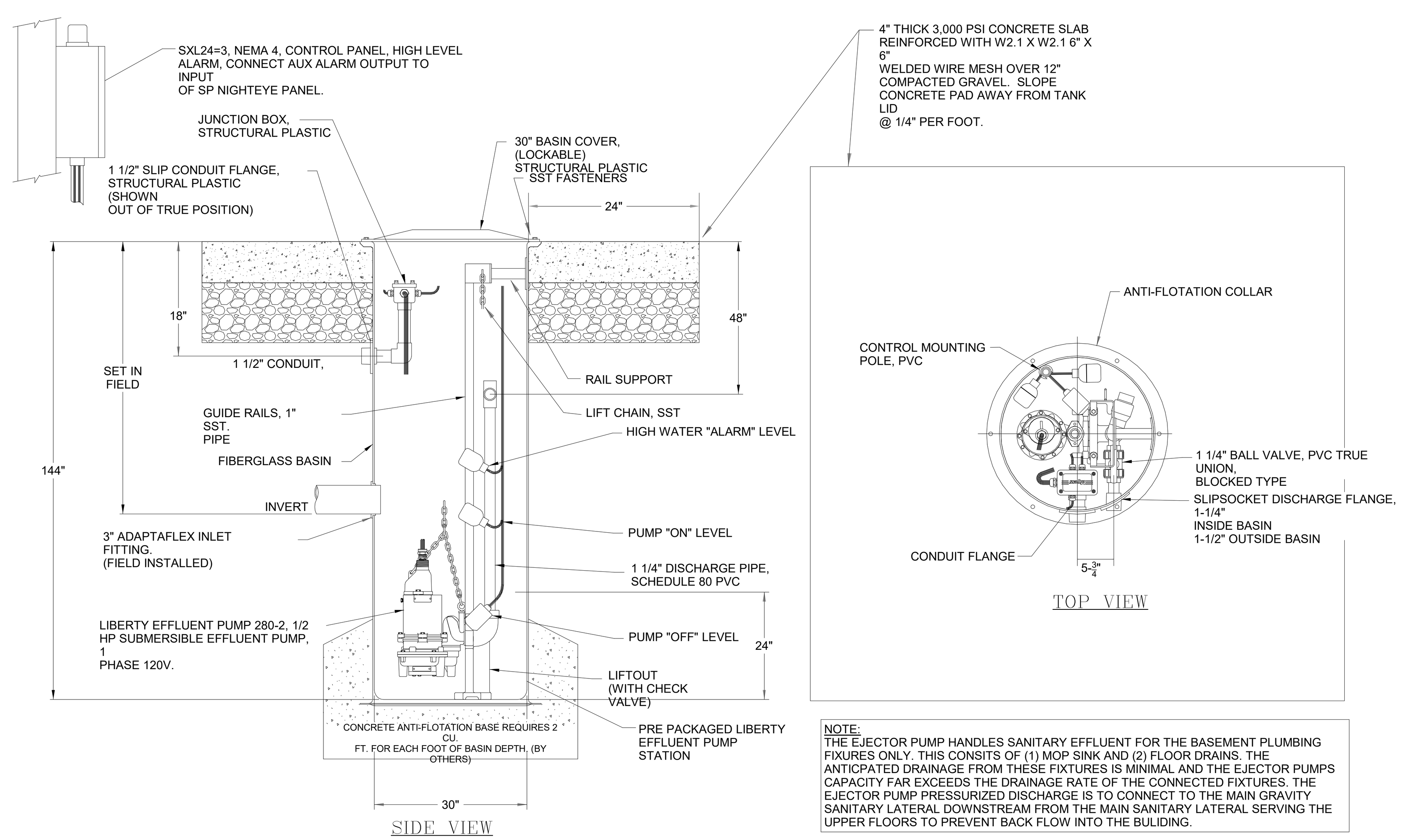
NOTE:

BRANCH GAS PIPES SHALL BE RUN FULL SIZE INDICATED THROUGH THE VALVE RIGHT UP TO THE INLET PIPE ON THE APPLIANCE. DO NOT RUN APPLIANCE INLET PIPE SIZE UPSTREAM OF THE UNIT.

NOTE:

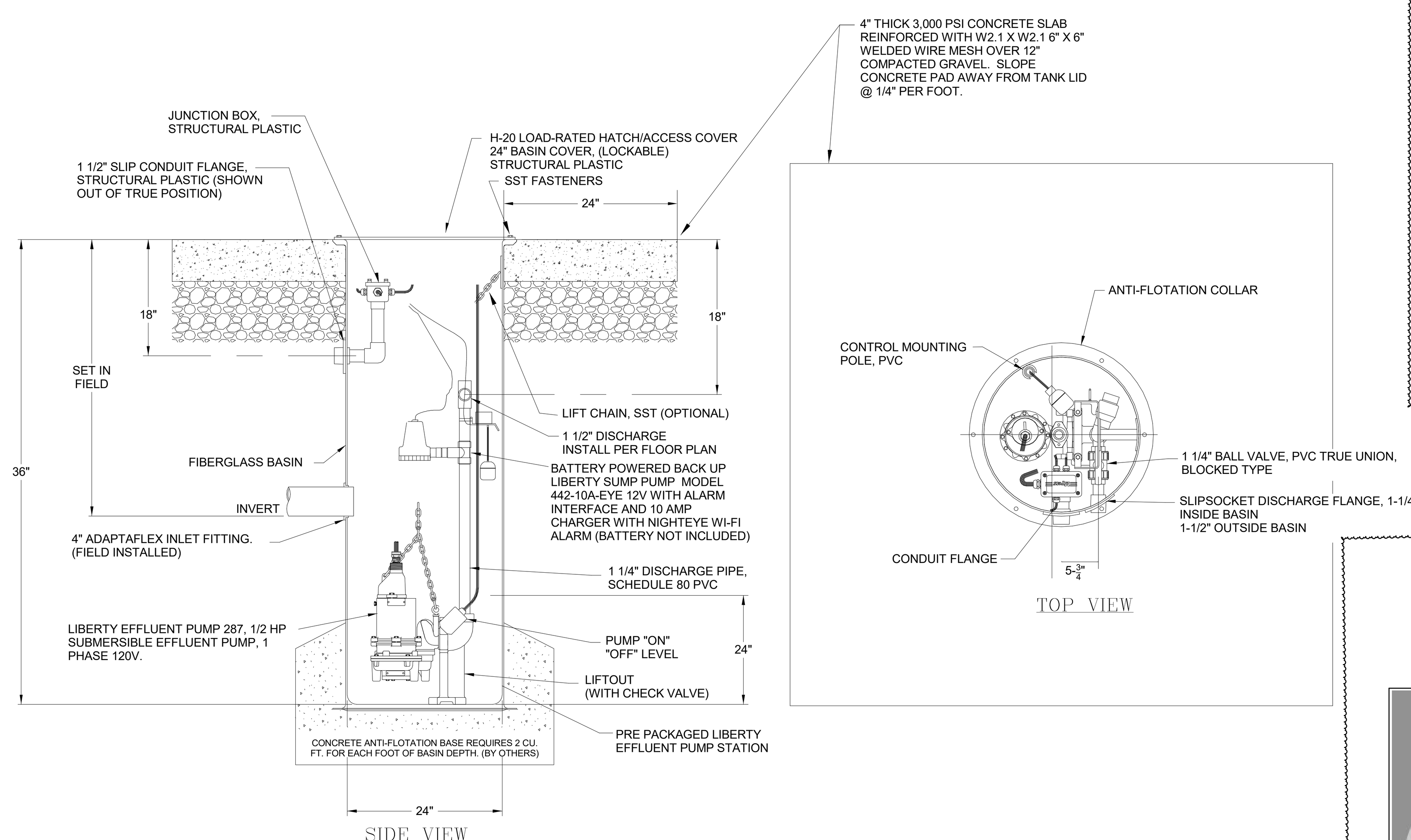
COORDINATE SCHEDULE OF GAS SERVICE TIE IN WITH UGI GAS CO. AND OWNER.

PAINT ALL NEW STEEL GAS PIPE EXPOSED TO THE OUTSIDE AND EXISTING STEEL GAS PIPE MARKED UP WITH PRIMER AND (2) COATS SAFETY YELLOW ENAMEL.



NOTE:
THE EJECTOR PUMP HANDLES SANITARY EFFLUENT FOR THE BASEMENT PLUMBING FIXURES ONLY. THIS CONSITS OF (1) MOP SINK AND (2) FLOOR DRAINS. THE ANTICPATED DRAINAGE FROM THESE FIXTURES IS MINIMAL AND THE EJECTOR PUMPS CAPACITY FAR EXCEEDS THE DRAINAGE RATE OF THE CONNECTED FIXTURES. THE EJECTOR PUMP PRESSURIZED DISCHARGE IS TO CONNECT TO THE MAIN GRAVITY SANITARY LATERAL DOWNSTREAM FROM THE MAIN SANITARY LATERAL SERVING THE UPPER FLOORS TO PREVENT BACK FLOW INTO THE BULIDING.

6 EJECTOR PUMP DETAIL
NO SCALE



7 SUMP PUMP DETAIL
NO SCALE

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PLUMBING FIXTURE SCHEDULE

FIXTURE	MANUFACTURER	TYPE	MODEL	TRIM NO.	SUPPORT NO.	MINIMUM PIPE SIZES					WSFU'S			DFU'S	FLOW RATE	MOUNTING HEIGHTS	ELECTRICAL REQUIREMENTS		REMARKS
						TRAP	WASTE	VENT	CW	HW	TOTAL	CW	HW				RECEPTACLE	JUNCTION BOX	
HLAV	AMERICAN STANDARD	LUCERNE	0355.012	6055.205	JR SMITH 0700	1-1/4"	1-1/2"	1-1/4"	1/2"	1/2"	1.0	0.8	0.8	1.0	0.5 GPM	RIM AT 34" AFF	-	-	WALL HUNG LAVATORY WITH BATTERY POWERED SENSOR ACTIVATED FAUCET. PROVIDE WITH ASSE 1070 CERTIFIED DOWN TO 0.25 GPM MIXING VALVE SET OUTLET TEMPERATURE AT 105°F. LOCATE BELOW FIXTURE, INSTALLATION PER MANUFACTURERS INSTRUCTIONS. PROVIDE "TRUEBRO" PREFORMED LAV-GUARD INSULATION KIT, WHITE IN COLOR ON ALL EXPOSED PIPING UNDER SINKS. CAULK TO WALL.
HWC	AMERICAN STANDARD	CADET	2467.016 OR 4142.800		FLOOR	-	3" OR 4"	2"	1/2"										FLOOR MOUNTED ELONGATED PRESSURE ASSISTED SIPHON JET FLUSH ACTION TOILET WITH EVERCLEAN SURFACE AND BEMIS SEAT MODEL 1955SSTFR ELONGATED HEAVY DUTY OPEN FRONT LESS COVER WITH ANTIMICROBIAL SURFACE, CAULK TO FLOOR. ADA ONLY--ALL FLUSH HANDLES TO BE LOCATED ON THE TRANSFER SIDE OF ALL WATER CLOSETS, REGARDLESS OF WHAT IS SHOWN ON ALL PLANS AND BATHROOM ELEVATIONS.
MS	FIAT	MOLDED STONE MOP SINK	MSBID-2424	FIAT FAUCET 830AA	FLOOR	3"	3"	2"	3/4"	3/4"	-	-	-	-	-	MOUNT FAUCET 36" AFF	-	-	FAUCET WITH VACUUM BREAKER FAUCET, 832AA HOSE BRACKET, 889CC MOP HANGER, MSG2424 STAINLESS STEEL WALL GUARDS. SEAL TO WALL.
WHA-	JR SMITH	WATER HAMER ARRESTER	5000 SERIES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PDI-A=5005, PDI-B=5010, PDI-C=5020, PDI-D=5030, PDI-E=5040, PDI-F=5050
WH	JR SMITH	FREEZE PROOF WALL HYDRANT	5519-WC-NB	RECESSED BOX WITH LOCK	-	-	-	-	-	-	-	-	-	-	-	MOUNT AT 30" AFG	-	-	PROVIDE WITH VACUUM BREAKER. LENGTH BASED ON WALL THICKNESS TO WARM SIDE OF INSULATION, ADD ADDITIONAL 2" TO LENGTH FOR WALL CLAMP
FD	JR SMITH	FLOOR DRAIN	2010C-NB	-	FLOOR	2"	2"	1 1/2"	-	-	-	-	-	-	-	-	-	-	CAST IRON BODY, NICKEL BRONZE ADJUST, STRAINER, WITH AUX, INLET FITTING 2697C, AND TP
FD2	JR SMITH	FLOOR DRAIN	2130C-B-M	-	FLOOR	2"	3"	2"	-	-	-	-	-	-	-	-	-	-	CAST IRON BODY, DUCTILE IRON STRAINER, STRAINER, WITH AUX, INLET FITTING 2697C, AND TP
RD	JR SMITH	ROOF DRAIN	1020Y-R-C-CID	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PIPE SIZE PER PLAN
FCO	JR SMITH	FLOOR CLEANOUT	4031-NB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PIPE SIZE PER PLAN, INSTALL LEVEL AND FLUSH WITH FINISHED FLOOR
ECO	JR SMITH	EXTERIOR CLEANOUT	4231-M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PIPE SIZE PER PLAN, INSTALL LEVEL AND FLUSH WITH CONCRETE
MV	POWERS	MIXING VALVE	ES-150	-	SEE REMARKS	-	-	-	1/2"	1/2"	-	-	-	-	-	-	-	-	LOCATE IN CONCEALED SPACE BELOW FIXTURE SET OUTLET TEMPERATURE AT 105°F, INSTALLATION PER MANUFACTURERS INSTRUCTIONS. ASSE 1070 RATED. PROVIDE FOR ALL HLAV AND KS2 SINKS
IMB	GUY GRAY	ICE MAKER BOX	BIM875	-	-	-	-	-	1/2"		-	-	-	-	-	BOTTOM OF BOX 12" AFF	-	-	16 GAUGE STEEL BOX WITH EPOXY FINISH
TD	JR SMITH	TRENCH DRAIN	9930	987-420-G GALV GRATE															
KS2	ELKAY	LUSTERTONE 3-HOLE	LR332265PD DOUBLE BOWL SINK	CHICAGO 2301-8CP	COUNTER	1 1/2"	1 1/2"	1 1/4"	1/2"	1/2"									7" BOWL DEPTH, LK-335 DUP STRAINER AND TAL PIECE CAULK TO COUNTER, DRAIN AND WATER PIPE ADA INSULATION KIT.
BFP-1	WATTS	RED. PRESSURE BACK. PREVENTER	LF007QTS						1/2"										NOTE: CONTRACTOR TO COORDINATE CERTIFICATION AND TESTING OF BACKFLOW PREVENTION DEVICE WITH AN APPROVED PA CERTIFIED TESTER.
BFP-2	WATTS	DOUBLE CHECK BACKFLOW PREVENTER	007						3/4"										
EP	LIBERTY PUMPS	EFFLUENT PUMP																120 V 1/2 HP	30"X144" FIBERGLASS SIMPLEX SUMP PUMP WITH GASKETED LID. (1) 280-2 SUMP PUMP 120V, SHUT-OFF HEAD OF 37' AND 3/4" SOLIDS HANDLING CAPABILITY. PROVIDE WITH SXL24=3 CONTROL PANEL, NEMA-4, HIGH LEVEL ALARM. CONNECT AUX ALARM OUTPUT TO INPUT OF SP NIGHTEYE PANEL. PROVIDE WITH INTERNAL PIPING, GUIDE RAIL, JUNCTION BOX AND WIRING.
SP	LIBERTY PUMPS	SUMP PUMP																120V 1/2 HP	LIBERTY SUBMERSIBLE EFFLUENT PUMP 287 1/2 HP, 1 PHASE, 120V, 24"X36" FIBERGLASS SUMP PIT AND BLANK COVER WITH GASKET AND HARDWARE. SYSTEM TO BE SUITABLE FOR FOOT TRAFFIC. ALL WIRING TO BE RUN UNDERGROUND. PRE-ASSEMBLED WITH 1-1/2" SCHEDULE 40 PVC DISCHARGE PIPE. MOLDED PUMP SUPPORT PLATFORM RAISES PUMP OFF BOTTOM OF PIT AND HELPS SECURE PUMP DURING SHIPPING. TWO 4" INLET HUBS WITH RUBBER GROMMET SEALS PROVIDED. GASKET SEALED COVER - RADON READY. NIGHT EYE WIRELESS WITH LOCAL HIGH LEVEL ALARM. BATTERY BACK-UP PUMP READY. PLATFORM DESIGNED TO PROPERLY LOCATE A LIBERTY PUMPS 442-10A-EYE BACK-UP SUMP PUMP SYSTEM.
ESP	STANCOR	ELEVATOR SUMP PUMP	SE-50				2"												1/2 HP, 115V/1PH, 3600 RPM, INSTALLATION PER MANUFACTURERS SPECIFICATIONS
WB	WATTS	WASHING MACHINE BOX WITH AUTO SHUTOFF	A2C-WB-M1		RECESSED WALL MOUNT	2"	2"	1-1/2"	1/2"	1/2"						BOTTOM OF BOX @ 45" AFF		115V, 15A GFI	PROVIDE WITH WATTS INTELLIFLOW AUTOMATIC WASHING MACHINE WATER SHUTOFF VALVE WITH RECESSED WALL BOX AND LEAK SENSOR LOCATED AT THE BASE OF THE WASHER. FOR 240 V INSTALLATIONS, PROVIDE WATTS A2 INTELITIMER ACCESSORY.

GENERAL NOTES:

1. ALL CHINA FIXTURES TO BE SUPPLIED WHITE.
2. ALL EXPOSED PIPING TO BE CHROMED PLATED.
3. PROVIDE STOP VALVES AT EACH FIXTURE.
4. ADJUST ALL SELF CLOSING FAUCETS FOR 10 SECOND RUN TIME.
5. FURNISH ALL LAVATORIES WITH CHROME PLATED METAL GRID STRAINER AND TAILPIECE.
6. EXPOSED P-TRAPS FOR LAVS TO BE 1 1/4" X 1 1/2" 17 GAUGE CHROME PLATED WITH CLEANOUTS.
7. ENGINEERS APPROVED EQUALS BY OTHERS ARE ALSO ACCEPTED.
8. ALTERNATE MANUFACTURERS KOHLER, CRANE, WADE, AND ZURN.
9. PROVIDE WITH PROSET SYSTEMS TRAP GUARD FOR ALL ADA SINKS
10. FOR SUMP PUMPS PROVIDE WITH ALL NECESSARY FITTINGS, CHECK VALVES, BALL VALVES, TANK, BASIN COVER, DUPLEX CONTROL PANEL, DISCONNECTS, AND ALARM DEVICE. FINAL ELECTRICAL CONNECTION BY EC. INSTALLATION PER MANUFACTURERS SPECIFICATIONS.

FIXTURE SPECIFIC NOTES:

A. ALL FLUSH HANDLES TO BE LOCATED ON THE TRANSFER SIDE OF ALL WATER CLOSETS, REGARDLESS OF WHAT IS SHOWN ON ALL PLANS AND BATHROOM ELEVATIONS .
B. PROVIDE "TRUEBRO" PREFORMED LAV-GUARD INSULATION KIT, WHITE IN COLOR ON ALL EXPOSED PIPING UNDER SINKS.
C. FURNISHED SERVICE SINK MOP BASIN WITH STAINLESS STEEL CURB CAPS, HOSE BRACKET #832-AA, MOP HANGER #889-CC, STAINLESS STEEL WALL GUARDS CAULKED WITH #833-AA.
D. PROVIDE RD/ORD WITH SUMP RECEIVER, UNDER DECK CLAMPS, CAST IRON DOME, STAINLESS STEEL GRAVEL GUARD AND EXTENSION COLLARS, PIPE SIZE AS PER PLAN.
E. PROVIDE WITH FLOOR DRAINS WITH JR SMITH QUAD CLOSE TRAP SEAL DEVICE MODEL 2692.
F. FURNISHED SERVICE SINK MOP BASIN WITH STAINLESS STEEL CURB CAPS, HOSE BRACKET #832-AA, MOP HANGER #889-CC, STAINLESS STEEL WALL GUARDS CAULKED WITH #833-AA.
G. PROVIDE ELEVATOR SUMP PUMP WITH ALL NECESSARY FITTINGS, CHECK VALVE, BALL VALVE, CONTROL PANEL, DISCONNECT, AND ALARM DEVICE.

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MRK drawn — CTS designed — CTS checked
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SAE Project No: FHC-14619

MKSD architects

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Todd O. Chambers, AIA, NCARB
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SEAL

SIGNATURE

Monroe County Historical Association
Alteration & Heritage Center Addition
900 Main Street - Stroudsburg, PA 18360

REVISIONS

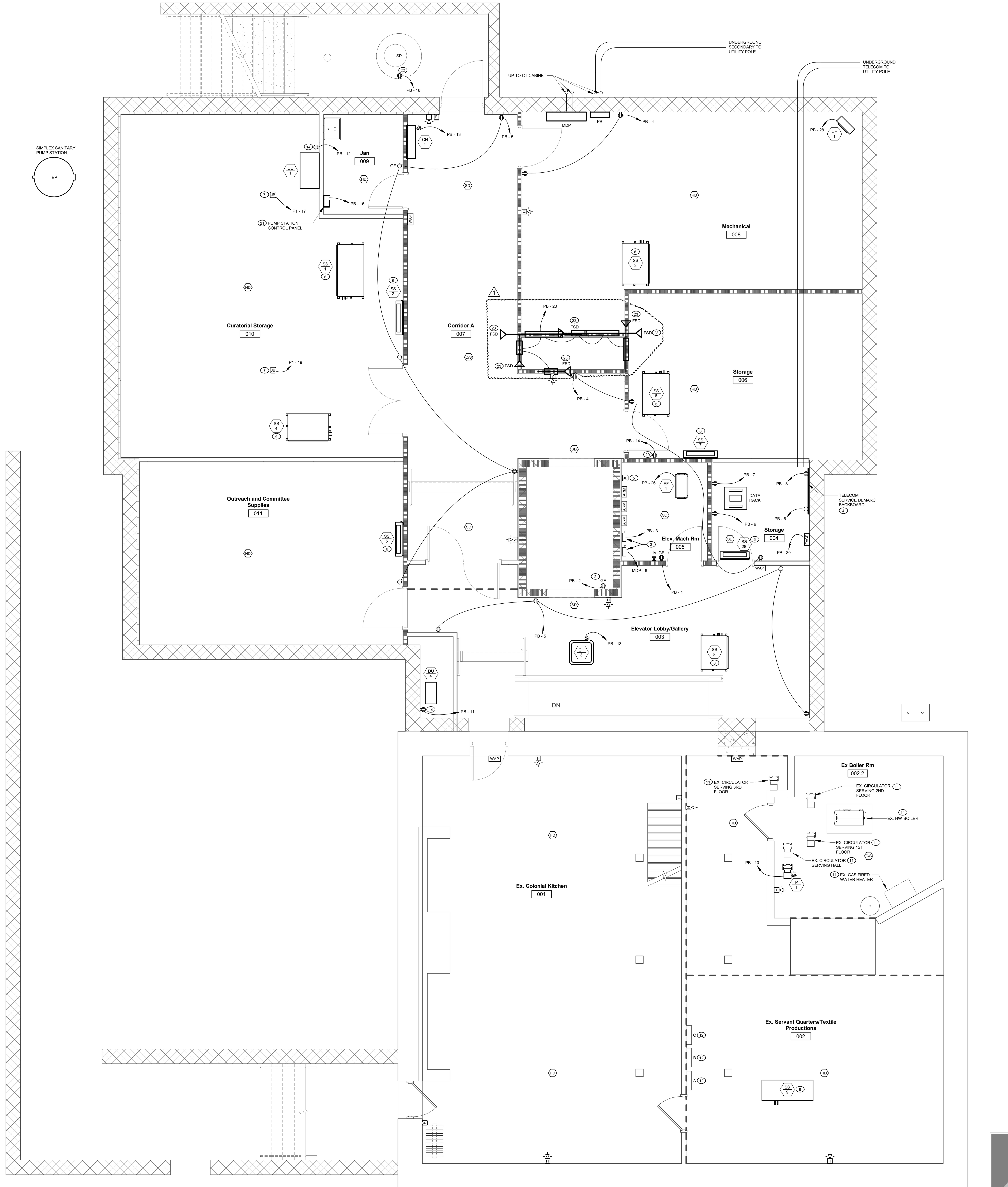
01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
SCHEDULES

PROJECT NUMBER 16.200
DRAWN BY MRK
SCALE 1/8" = 1'-0"
DATE 01.26.23

DRAWING NUMBER
P600



NEW WORK NOTES BY SYMBOL - ELECTRIC

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(2) REFER TO ELEVATOR PIT LIGHT DETAIL.

(3) REFER TO ELEVATOR POWER AND CONTROL WIRING DIAGRAM.

(4) TELECOM DEMARC: PROVIDE 3/4"X6'X4'H PAINTED TREATED CDX PLYWOOD BACKBOARD FOR TELEPHONE AND COMMUNICATIONS HEADEND EQUIPMENT PROVIDED BY UTILITY COMPANIES.

(5) ELEVATOR PHONE LINES: PROVIDE CAT. 6 CABLES FROM ELEVATOR EQUIPMENT TO TELEPHONE DEMARC LOCATION. VERIFY EXACT QUANTITY AND TERMINATION LOCATION WITH ELEVATOR INSTALLER.

(6) SPLIT SYSTEM: PROVIDE NEMA 3R DISCONNECT SWITCH FOR OUTDOOR UNIT. PROVIDE CONDUIT AND WIRING, AS PER PANEL SCHEDULE, FROM PANEL INDICATED TO OUTDOOR UNIT DISCONNECT SWITCH. PROVIDE FINAL ELECTRICAL CONNECTION TO OUTDOOR UNIT. PROVIDE POWER AND CONTROL CONDUIT AND WIRING, AS REQUIRED BY MANUFACTURER, FROM OUTDOOR UNIT TO INDOOR UNIT. INDOOR UNIT TO BE POWERED FROM OUTDOOR UNIT. PROVIDE FINAL ELECTRICAL CONNECTION TO INDOOR UNIT. COORDINATE ALL WORK WITH SPLIT SYSTEM INSTALLER. PROVIDE CIRCUIT BREAKER LOCKING DEVICE, FOR SPLIT SYSTEM CIRCUIT BREAKER, TO MEET THE REQUIREMENTS OF NEC 422.31.

(7) FUTURE FLOOR BOX POWER: PROVIDE JUNCTION BOX FOR FUTURE POWER TO FUTURE FLOOR BOX. PROVIDE CONDUIT AND WIRING, AS INDICATED, FROM JUNCTION BOX TO PANEL INDICATED. CAP WIRES INJUNCTION BOX AND LABEL "FUTURE FLOOR BOX". PROVIDE CIRCUIT BREAKER LOCKING DEVICE TO LOCK BREAKER IN THE OFF POSITION.

(8) REFER TO TV OUTLET MOUNTING DETAIL.

(9) DESTRAT FAN: PROVIDE SINGLE RECEPTACLE IN SURFACE CAST BOX MOUNTED ADJACENT TO DESTRAT FAN. COORDINATE EXACT LOCATION WITH FAN INSTALLER.

(10) TRACK LIGHTING: PROVIDE SEPARATE LIGHTING FOR CONTROL OF TRACK LIGHTING. COORDINATE EXACT CONTROL LOCATION WITH OWNER PRIOR TO ROUGH-IN.

(11) EXISTING, SHOWN FOR COORDINATION.

(12) EXISTING PANEL: PROVIDE NEW FEEDER CONDUIT AND CONDUCTORS, AS PER RISER DIAGRAM, FROM EXISTING PANEL BACK TO NEW MDP.

(13) KITCHEN HOOD: INSTALL ELECTRICAL DISCONNECT THAT COMES WITH HOOD. PROVIDE CONDUIT AND WIRING FROM DISCONNECT BACK TO PANEL INDICATED. PROVIDE ALL CONDUIT AND WIRING AND FINAL ELECTRICAL CONNECTION FROM DISCONNECT TO HOOD. PROVIDE ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN HOOD AND FAN.

(14) DEHUMIDIFICATION UNIT: PROVIDE DUPLEX RECEPTACLE FOR USE WITH DEHUMIDIFICATION UNIT. COORDINATE EXACT LOCATION WITH UNIT INSTALLER.

(15) STRING LIGHTING: PROVIDE WP GF RECEPTACLE FOR USE WITH OWNER PROVIDED STRING LIGHTING. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.

(16) TAPE LIGHT: PROVIDE TIVOLI TPLE-SB-O-30-24 TAPE LIGHT IN MOFT-CHAN-SLV-6.5 MOUNTING CHANNEL WITH MOFT-LNS-OPL-6.5 LENS. CHANNEL SHALL BE RECESSED IN NEW SITE WALL. COORDINATE INSTALLATION WITH ARCHITECTURAL DRAWINGS. PROVIDE LENGTHS OF TAPELIGHT AND MOUNTING CHANNEL AS REQUIRED TO EXTEND AROUND ENTIRE WALL AS INDICATED. PROVIDE ADNM-320-3-4-24-D POWER SUPPLY FOR TAPELIGHT. PROVIDE ALL WIRING, AS PER MANUFACTURER, FROM TRANSFORMER TO SECTIONS OF TAPELIGHT AS REQUIRED TO NOT OVERLOAD POWER SUPPLY.

(17) REFER TO EXTERIOR LIGHTING CONTROL DIAGRAM.

(18) EXTERIOR WALL WASH: PROVIDE NEW LUMINAIRE AS INDICATED. CONNECT NEW LUMINAIRE TO EXISTING CONDUIT AND WIRING REMAINING FROM REMOVAL OF EXISTING LUMINAIRE. PROVIDE CONDUIT AND WIRING, FROM JUNCTION BOX, PROVIDED AS PER DEMOLITION NOTES BY SYMBOL, TO CIRCUIT INDICATED. WIRE THROUGH RELAY PANEL AS REQUIRED.

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(21) EJECTOR PUMP: PROVIDE CONDUIT AND WIRING, AS INDICATED, FROM EJECTOR PUMP CONTROL PANEL TO CIRCUIT INDICATED. PROVIDE FINAL ELECTRICAL CONNECTION TO PUMP CONTROL PANEL.

(22) SUMP PUMP: PROVIDE DUPLEX GF RECEPTACLE IN SURFACE CAST BOX FOR SUMP PUMP. MOUNT RECEPTACLE IN SUMP PUMP BASIN. COORDINATE ALL WORK WITH SUMP PUMP INSTALLER.

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1 Basement Plan - Power

SCALE 4' 0 8' 16' 24'

INTRUSION DETECTION SYSTEM WILL BE PROVIDED UNDER SEPARATE CONTRACT BY THE OWNER. OWNERS VENDOR WILL BE WORKING ON SITE AT SAME TIME AS CONTRACT. CONTRACTOR SHALL COORDINATE SITE AND BUILDING ACCESS WITH VENDOR

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JRP	JRP	CTS
drawn	designed	checked

drawing not valid without authorized sae signatures

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SEAL

SIGNATURE

Monroe County Historical Association Alteration & Heritage Center Addition

900 Main Street - Stroudsburg, PA 18360

REVISIONS

01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE

Basement Plan - Power

PROJECT NUMBER 16.200

DRAWN BY JRP

SCALE As indicated

DATE 01.26.23

DRAWING NUMBER

E100

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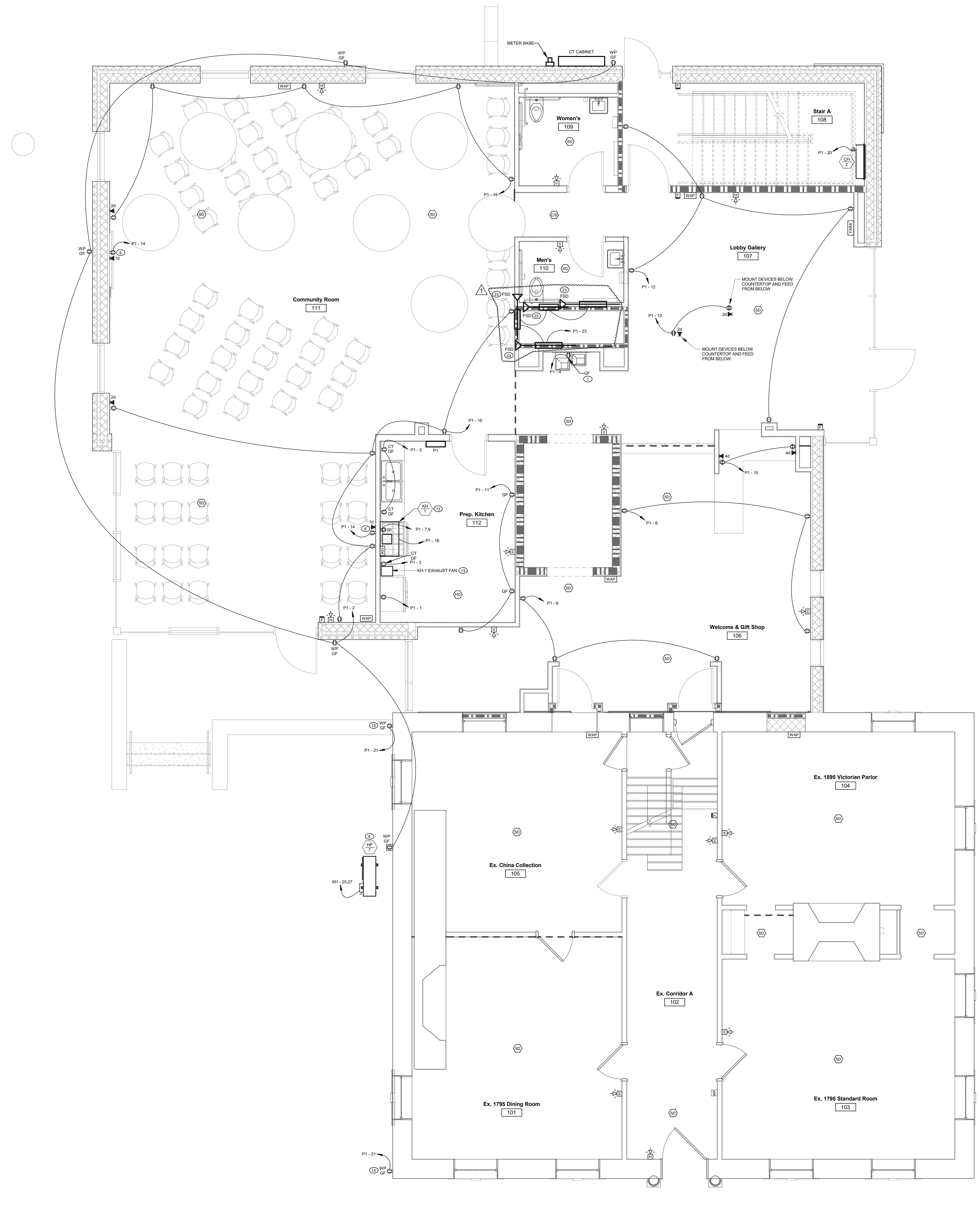

1 **1st Floor Plan - Power**

SCALE

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DRAWING TITLE
1st Floor Plan - Power

PROJECT NUMBER
16.200

DRAWN BY
JRP

SCALE
As indicated

DATE
01.26.23

DRAWING NUMBER
E101

www.mksdarchitects.com

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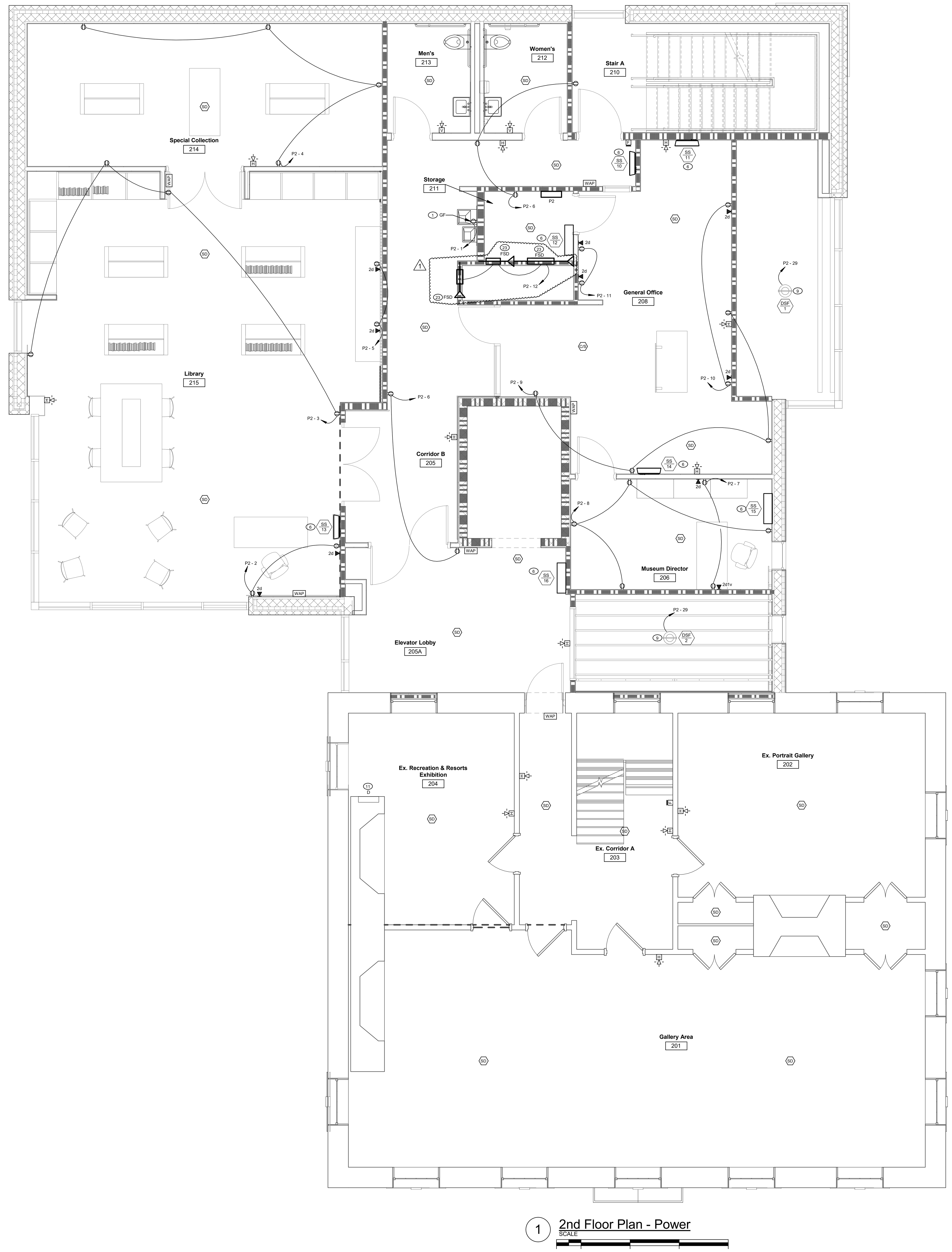

1 2nd Floor Plan - Power
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SC P.E. # 39067 | MD P.E. # 58304
CO P.E. # 60950 | KY P.E. # 35456

JRP	JRP	CTS
drawn	designed	checked

drawing not valid without authorized sae signatures

SAE Project No: FHC-14619

MKSD architects
Silvia A. Hoffman, AIA, LEED AP
Todd O. Chambers, AIA, NCARB
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SIGNATURE

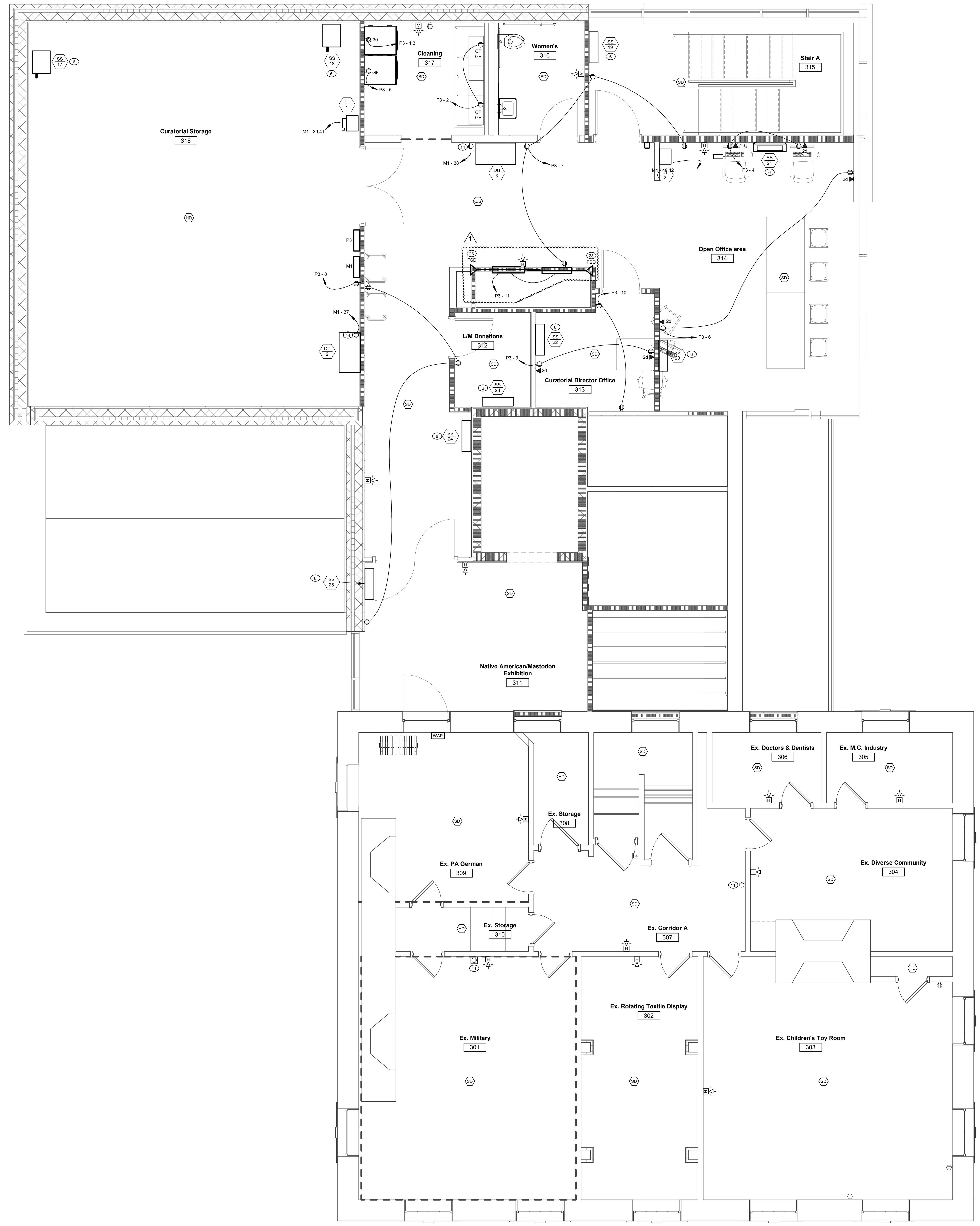
Monroe County Historical Association Alteration & Heritage Center Addition
900 Main Street - Stroudsburg, PA 18360

REVISIONS
01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
2nd Floor Plan - Power

PROJECT NUMBER 16.200
DRAWN BY JRP
SCALE As indicated
DATE 01.26.23
DRAWING NUMBER **E102**



1 3rd Floor Plan - Power
SCALE
4' 0 8' 16' 24'

INTRUSION DETECTION SYSTEM WILL BE PROVIDED UNDER SEPARATE CONTRACT BY THE OWNER. OWNERS VENDOR WILL BE WORKING ON SITE AT SAME TIME AS CONTRACT. CONTRACTOR SHALL COORDINATE SITE AND BUILDING ACCESS WITH VENDOR

NEW WORK NOTES BY SYMBOL - ELECTRIC

1. WATER COOLER: PROVIDE DUPLEX GROUND FAULT RECEPTACLE FOR WATER COOLER. CONCEAL RECEPTACLE BELOW/BEHIND MOUNTING BOX OF COOLER.
2. REFER TO ELEVATOR PIT LIGHT DETAIL.
3. REFER TO ELEVATOR POWER AND CONTROL WIRING DIAGRAM.
4. TELECOM DEMARC: PROVIDE 3/4"X6'X4'H PAINTED TREATED CDX PLYWOOD BACKBOARD FOR TELEPHONE AND COMMUNICATIONS HEADEND EQUIPMENT PROVIDED BY UTILITY COMPANIES.
5. ELEVATOR PHONE LINES: PROVIDE CAT. 6 CABLES FROM ELEVATOR EQUIPMENT TO TELEPHONE DEMARC LOCATION. VERIFY EXACT QUANTITY AND TERMINATION LOCATION WITH ELEVATOR INSTALLER.
6. SPLIT SYSTEM: PROVIDE NEMA 3R DISCONNECT SWITCH FOR OUTDOOR UNIT. PROVIDE CONDUIT AND WIRING, AS PER PANEL SCHEDULE, FROM PANEL INDICATED TO OUTDOOR UNIT DISCONNECT SWITCH. PROVIDE FINAL ELECTRICAL CONNECTION TO OUTDOOR UNIT. PROVIDE POWER AND CONTROL CONDUIT AND WIRING, AS REQUIRED BY MANUFACTURER, FROM OUTDOOR UNIT TO INDOOR UNIT. INDOOR UNIT TO BE POWERED FROM OUTDOOR UNIT. PROVIDE FINAL ELECTRICAL CONNECTION TO INDOOR UNIT. COORDINATE ALL WORK WITH SPLIT SYSTEM INSTALLER. PROVIDE CIRCUIT BREAKER LOCKING DEVICE, FOR SPLIT SYSTEM CIRCUIT BREAKER, TO MEET THE REQUIREMENTS OF NEC 422.31.
7. FUTURE FLOOR BOX POWER: PROVIDE JUNCTION BOX FOR FUTURE POWER TO FUTURE FLOOR BOX. PROVIDE CONDUIT AND WIRING, AS INDICATED, FROM JUNCTION BOX TO PANEL INDICATED. CAP WIRES INJUNCTION BOX AND LABEL "FUTURE FLOOR BOX". PROVIDE CIRCUIT BREAKER LOCKING DEVICE TO LOCK BREAKER IN THE OFF POSITION.
8. REFER TO TV OUTLET MOUNTING DETAIL.
9. DESTRAT FAN: PROVIDE SINGLE RECEPTACLE IN SURFACE CAST BOX MOUNTED ADJACENT TO DESTRAT FAN. COORDINATE EXACT LOCATION WITH FAN INSTALLER.
10. TRACK LIGHTING: PROVIDE SEPARATE LIGHTING FOR CONTROL OF TRACK LIGHTING. COORDINATE EXACT CONTROL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
11. EXISTING, SHOWN FOR COORDINATION.
12. EXISTING PANEL: PROVIDE NEW FEEDER CONDUIT AND CONDUCTORS, AS PER RISER DIAGRAM, FROM EXISTING PANEL BACK TO NEW MDP.
13. KITCHEN HOOD: INSTALL ELECTRICAL DISCONNECT THAT COMES WITH HOOD. PROVIDE CONDUIT AND WIRING FROM DISCONNECT BACK TO PANEL INDICATED. PROVIDE ALL CONDUIT AND WIRING AND FINAL ELECTRICAL CONNECTION FROM DISCONNECT TO HOOD. PROVIDE ALL INTERCONNECTING CONDUIT AND WIRING BETWEEN HOOD AND FAN.
14. DEHUMIDIFICATION UNIT: PROVIDE DUPLEX RECEPTACLE FOR USE WITH DEHUMIDIFICATION UNIT. COORDINATE EXACT LOCATION WITH UNIT INSTALLER.
15. STRING LIGHTING: PROVIDE WP GF RECEPTACLE FOR USE WITH OWNER PROVIDED STRING LIGHTING. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
16. TAPE LIGHT: PROVIDE TIVOLI TPLE-SB-O-30-24 TAPE LIGHT IN MOFT-CHAN-SLV-6.5 MOUNTING CHANNEL WITH MOFT-LNS-OPL-6.5 LENS. CHANNEL SHALL BE RECESSED IN NEW SITE WALL. COORDINATE INSTALLATION WITH ARCHITECTURAL DRAWINGS. PROVIDE LENGTHS OF TAPELIGHT AND MOUNTING CHANNEL AS REQUIRED TO EXTEND AROUND ENTIRE WALL AS INDICATED. PROVIDE ADNM-320-3-4-24-D POWER SUPPLY FOR TAPELIGHT. PROVIDE ALL WIRING, AS PER MANUFACTURER, FROM TRANSFORMER TO SECTIONS OF TAPELIGHT AS REQUIRED TO NOT OVERLOAD POWER SUPPLY.
17. REFER TO EXTERIOR LIGHTING CONTROL DIAGRAM.
18. EXTERIOR WALL WASH: PROVIDE NEW LUMINAIRE AS INDICATED. CONNECT NEW LUMINAIRE TO EXISTING CONDUIT AND WIRING REMAINING FROM REMOVAL OF EXISTING LUMINAIRE. PROVIDE CONDUIT AND WIRING, FROM JUNCTION BOX, PROVIDED AS PER DEMOLITION NOTES BY SYMBOL, TO CIRCUIT INDICATED. WIRE THROUGH RELAY PANEL AS REQUIRED.
19. POST TOP LUMINAIRE: REFER TO CIVIL DRAWINGS FOR POST TOP LUMINAIRE SPECIFICATIONS AND POLE BASE INFORMATION. PROVIDE CONDUIT AND WIRING, AS INDICATED, FROM LUMINAIRE TO CIRCUIT INDICATED. PROVIDE DUAL-LITE LPS-55-S-RTSLP EMERGENCY LIGHTING INVERTER FOR POWERING LUMINAIRE DURING NORMAL POWER INTERRUPTION. PROVIDE ALL WIRING, AS PER MANUFACTURER, BETWEEN POWER SOURCE, EXTERIOR LIGHTING RELAY PANEL, INVERTER AND LUMINAIRE AS REQUIRED.
20. ELEVATOR SUMP PUMP: PROVIDE DUPLEX RECEPTACLE FOR ELEVATOR SUMP PUMP. MOUNT RECEPTACLE ADJACENT TO SUMP PUMP CONTROL PANEL.
21. EJECTOR PUMP: PROVIDE CONDUIT AND WIRING, AS INDICATED, FROM EJECTOR PUMP CONTROL PANEL TO CIRCUIT INDICATED. PROVIDE FINAL ELECTRICAL CONNECTION TO PUMP CONTROL PANEL.
22. SUMP PUMP: PROVIDE DUPLEX GF RECEPTACLE IN SURFACE CAST BOX FOR SUMP PUMP. MOUNT RECEPTACLE IN SUMP PUMP BASIN. COORDINATE ALL WORK WITH SUMP PUMP INSTALLER.
23. (Revision 1) FIRE/SMOKE DAMPER: PROVIDE JUNCTION BOX FOR POWER CONNECTION TO FIRE/SMOKE DAMPER ACTUATOR. PROVIDE FIRE ALARM ADDRESSABLE MODULE FOR SMOKE DAMPER. PROVIDE TOGGLE SWITCH FOR TESTING OF DAMPER. PROVIDE CONDUIT AND WIRING, AS PER PANEL SCHEDULE, FROM PANEL INDICATED THROUGH SWITCH, FIRE ALARM MODULE AND JUNCTION BOX TO SMOKE DAMPER ACTUATOR MOTOR. PROVIDE FINAL ELECTRICAL CONNECTIONS TO ALL ITEMS AS REQUIRED. COORDINATE ALL WORK WITH FIRE ALARM SYSTEM INSTALLER AND SMOKE DAMPER INSTALLER. MOUNT TOGGLE SWITCH AND ADDRESSABLE MODULE IN LOCATION DETERMINED BY OWNER. REFER TO FIRE/SMOKE DAMPER & DUCT DETECTOR DETAIL

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JRP	JRP	CTS
drawn	designed	checked

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SAE Project No: FHC-14619

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — CHRISTOPHER T. STRUNK — ENGINEER — NO. 080014

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DRAWING TITLE
3rd Floor Plan - Power

PROJECT NUMBER
16.200
DRAWN BY
JRP
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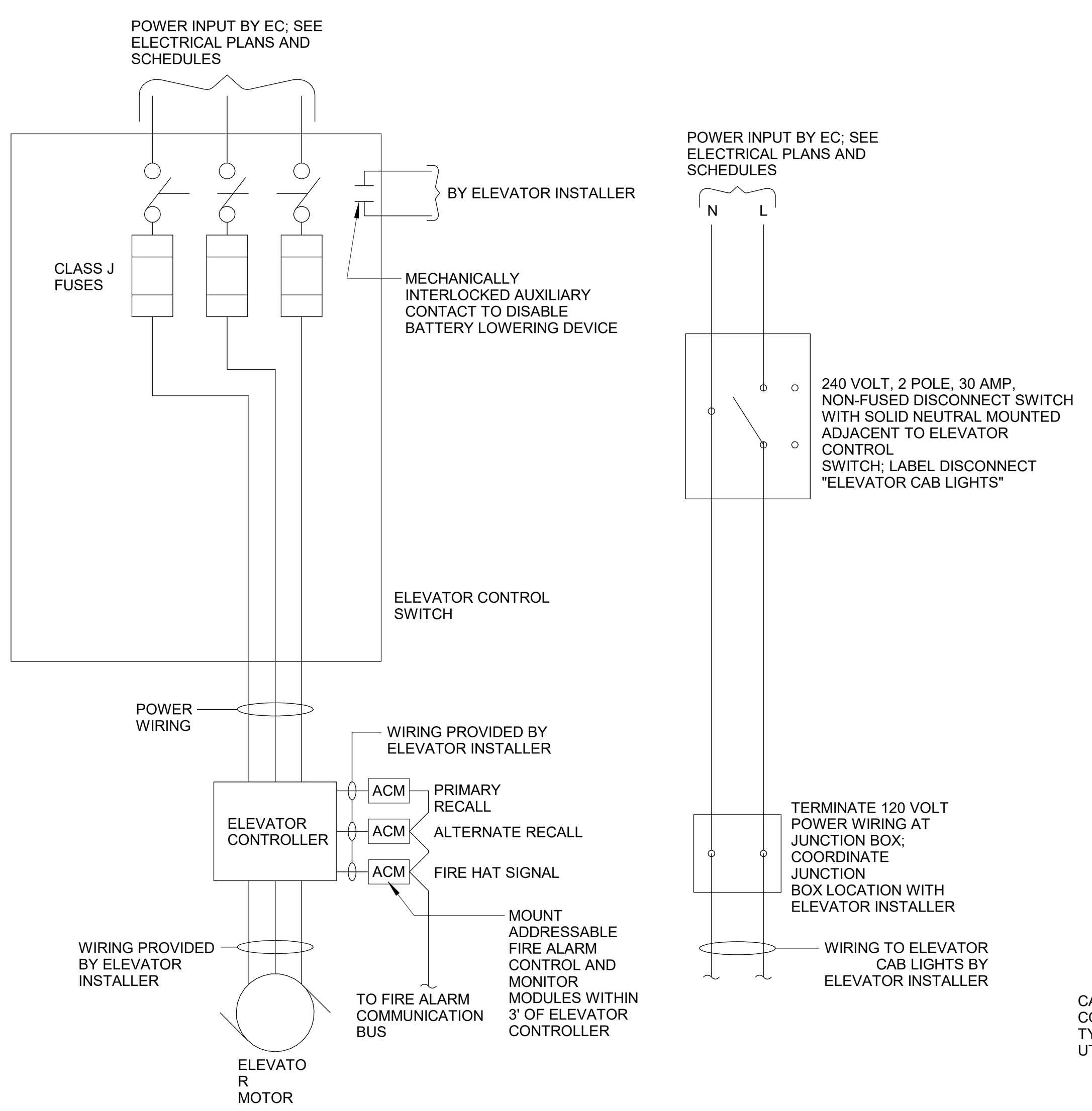
As indicated
DATE
01.26.23
DRAWING NUMBER
E103

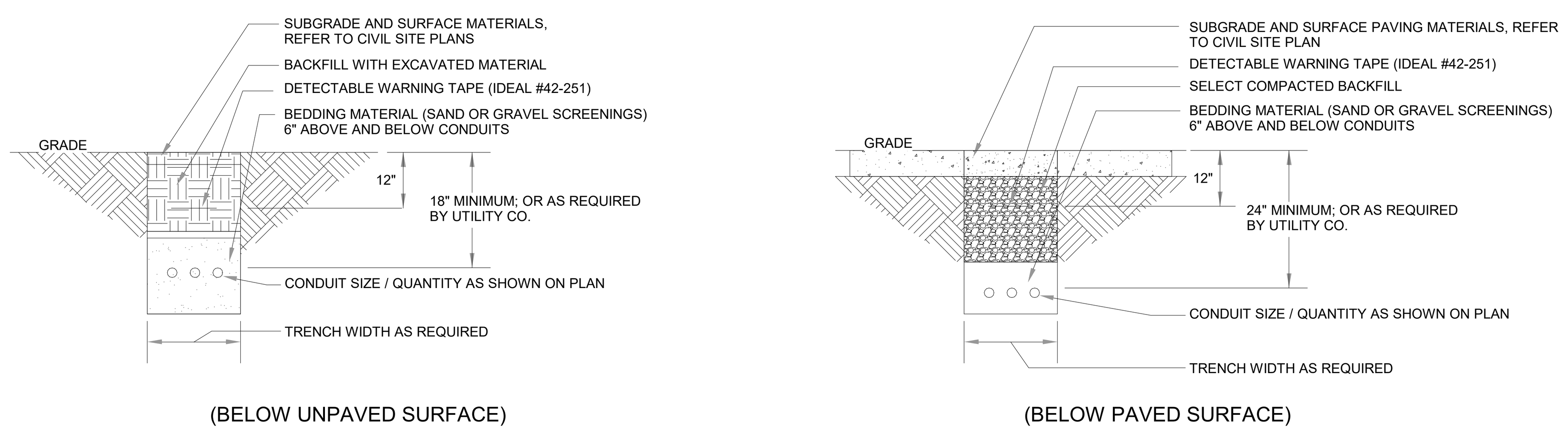
SPECIFICATIONS:

1. THE ELEVATOR SWITCH SHALL BE A HORSEPOWER RATED FUSIBLE SWITCH THE SWITCH SHALL INCLUDE A 1-NO/1-NC MECHANICALLY INTERLOCKED AUXILIARY CONTACT RATED 5A, 120 VAC. THE SWITCH SHALL INCLUDE:
   A. NEMA 1 ENCLOSURE
   B. SHORT CIRCUIT RATING AT 200,000 AMPS RMS SYMMETRICAL WITH BUSSMANN LOW-PEAK CLASS J FUSES.

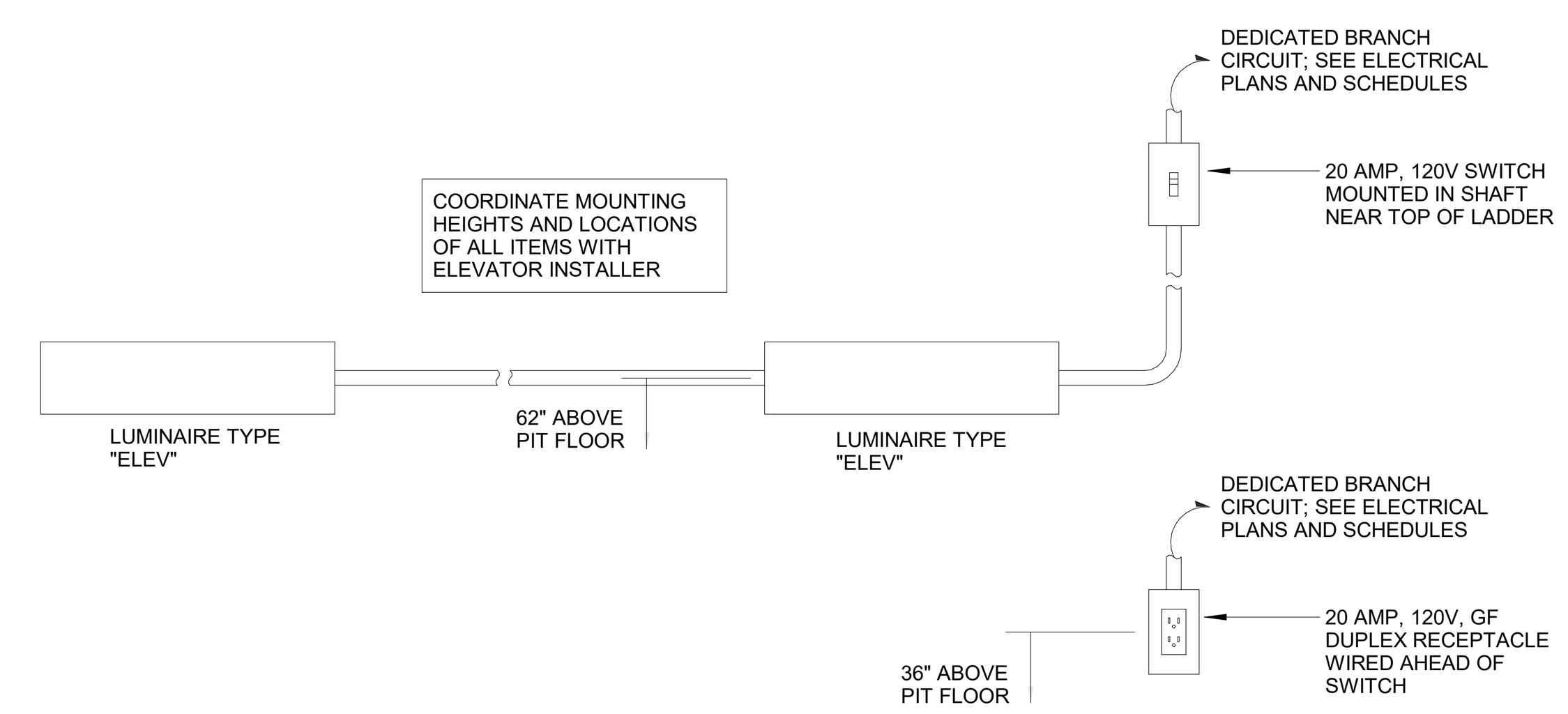
2. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE
   A. NATIONAL ELECTRIC CODE (NEC)
   B. INTERNATIONAL BUILDING CODE (IBC)
   C. NFPA 72
   D. ANSI/ASME A17.1



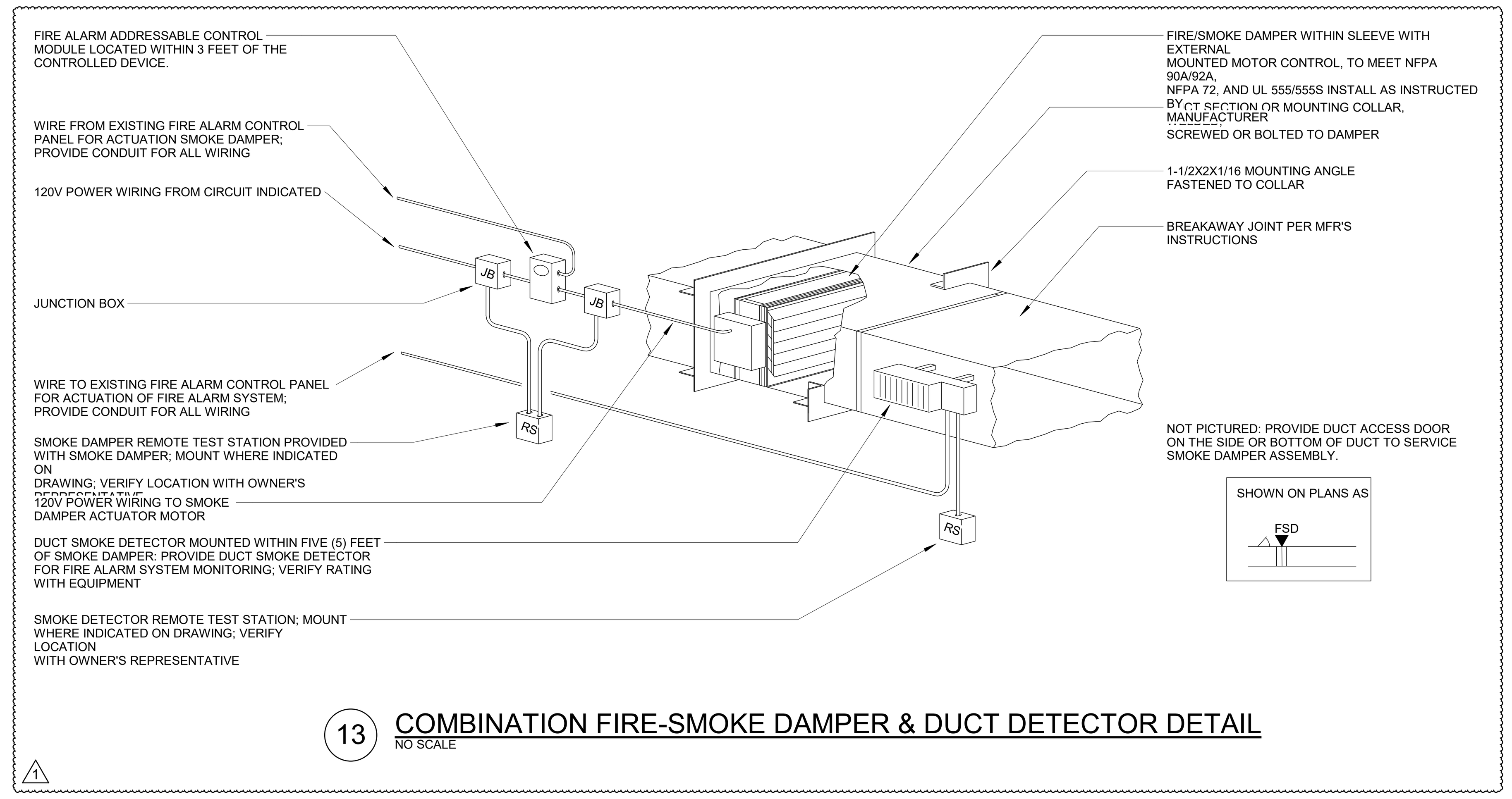
1 ELEVATOR POWER & CONTROL DIAGRAM
NO SCALE



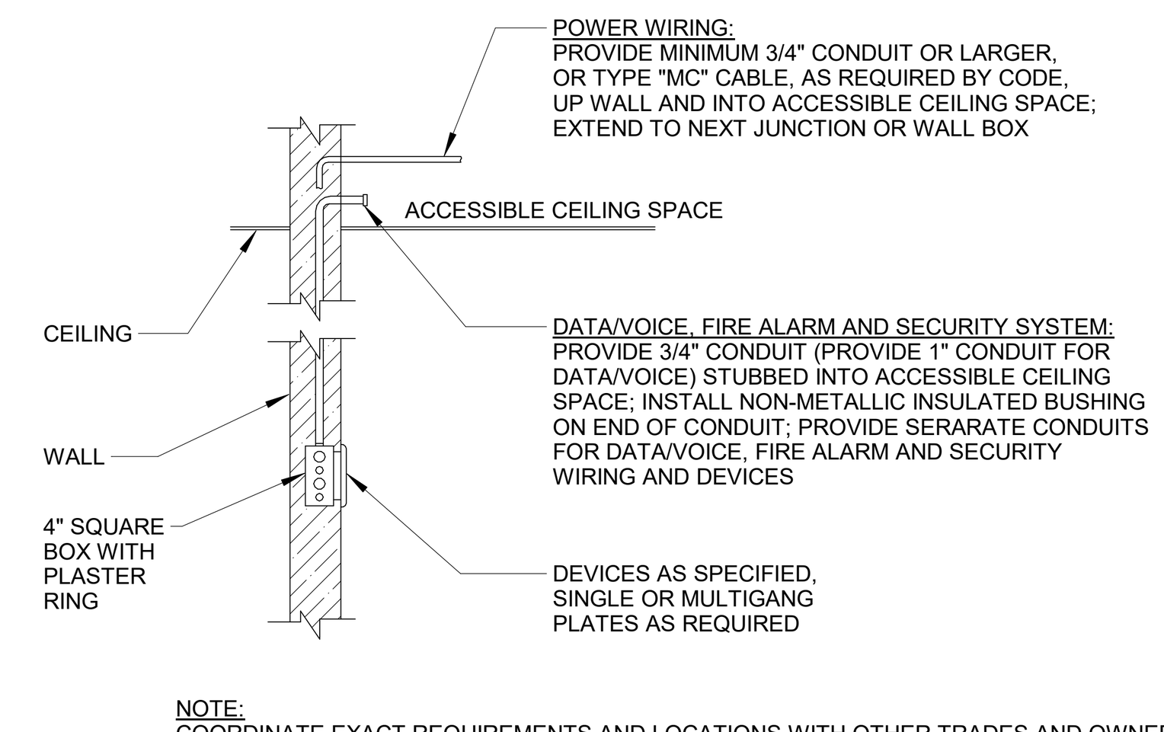
12 TRENCH DETAILS
NO SCALE



2 ELEVATOR PIT DETAIL
NO SCALE

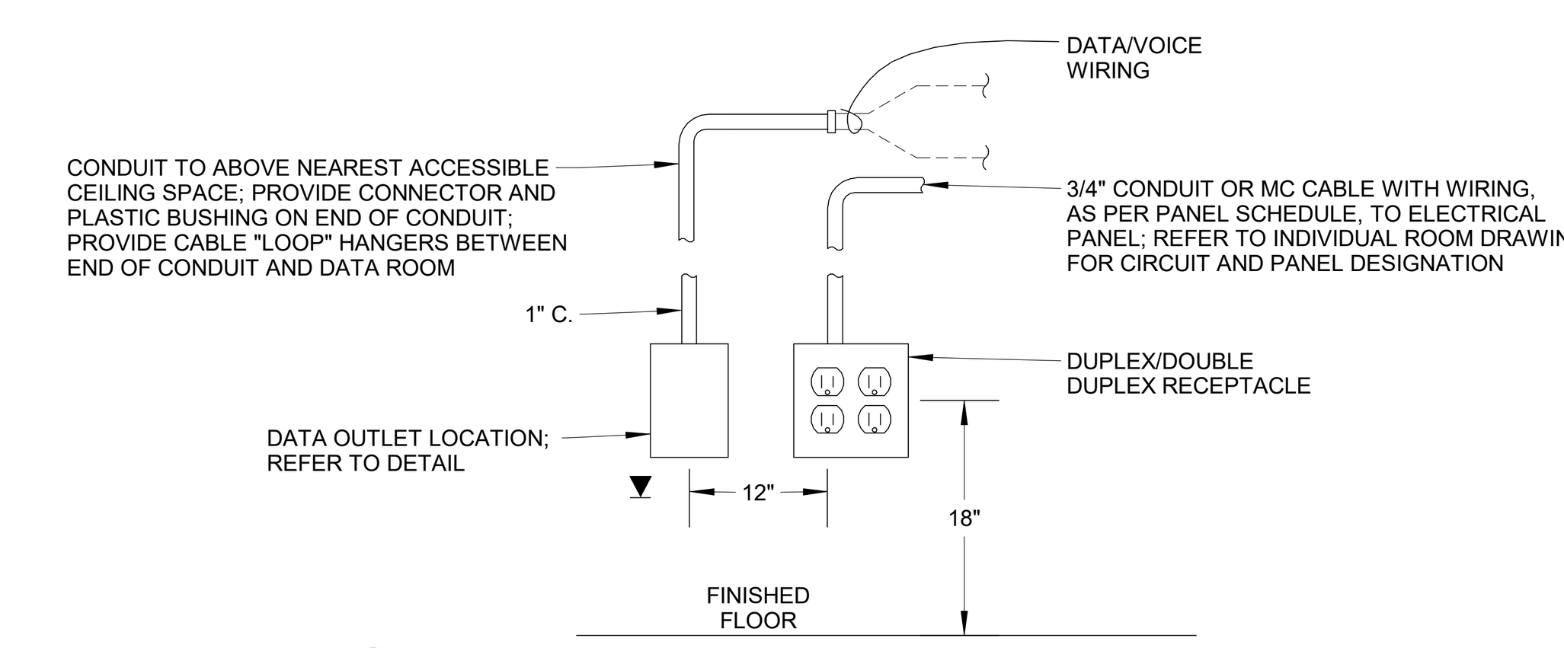


13 COMBINATION FIRE-SMOKE DAMPER & DUCT DETECTOR DETAIL
NO SCALE

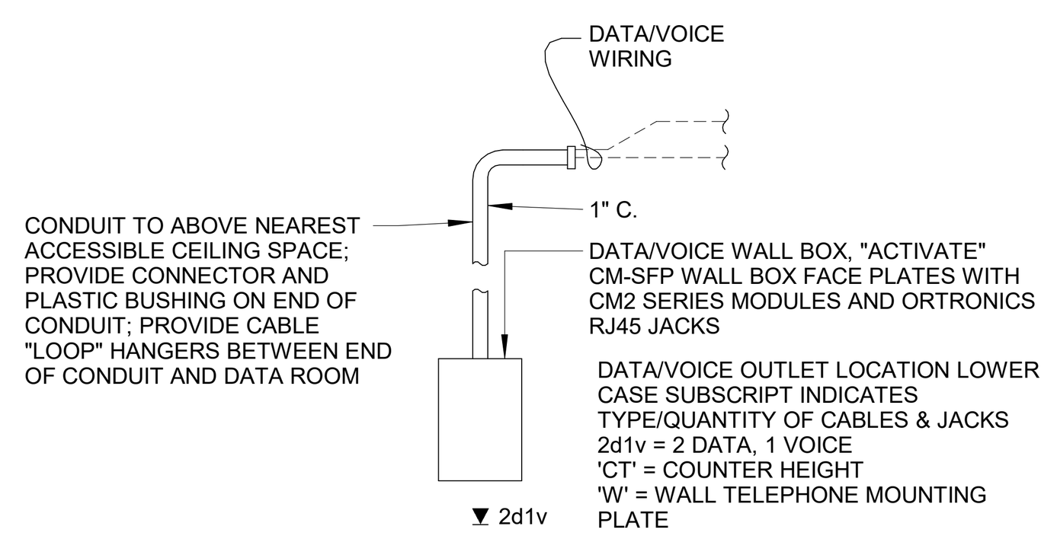


NOTE:
COORDINATE EXACT REQUIREMENTS AND LOCATIONS WITH OTHER TRADES AND OWNER.

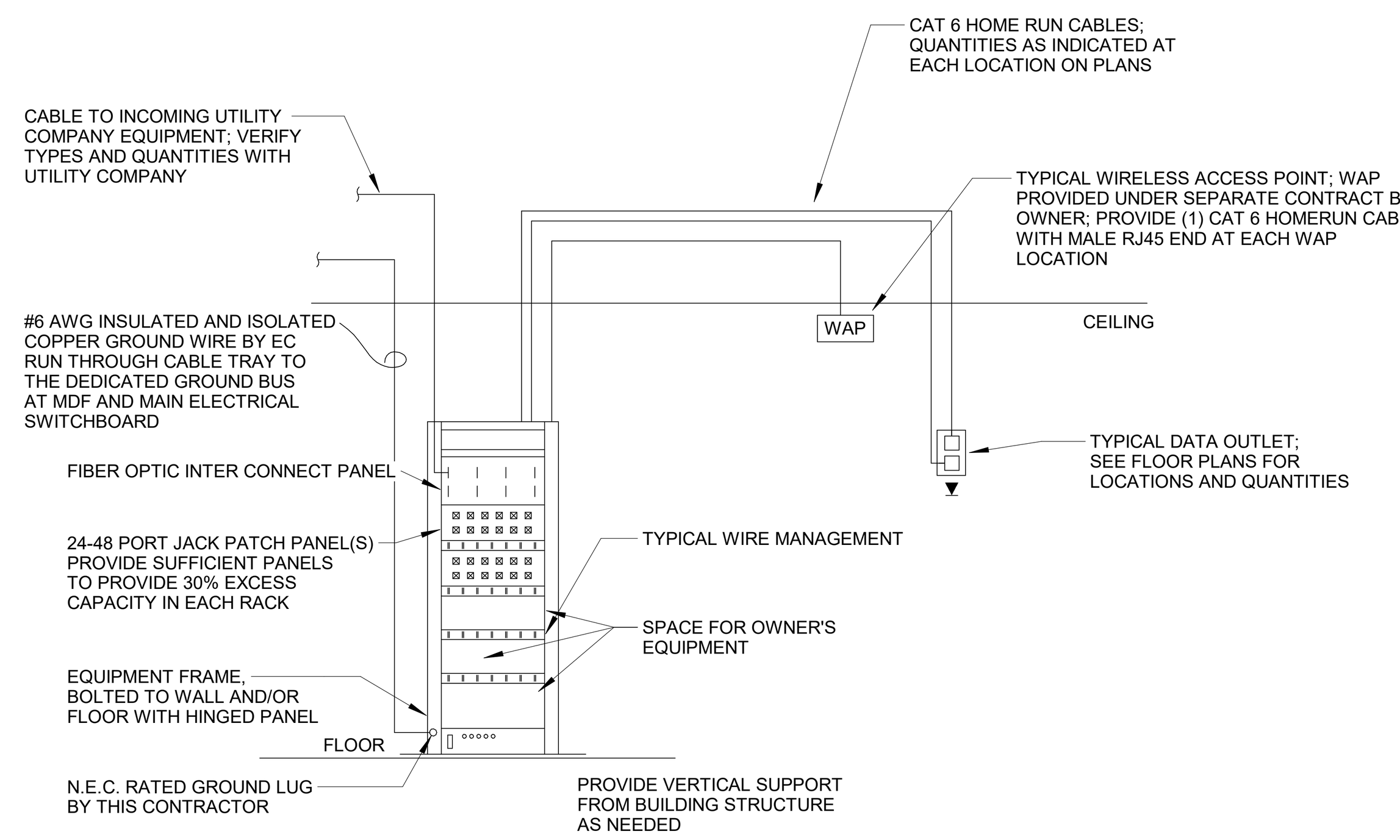
3 WALL BOX DETAIL
NO SCALE



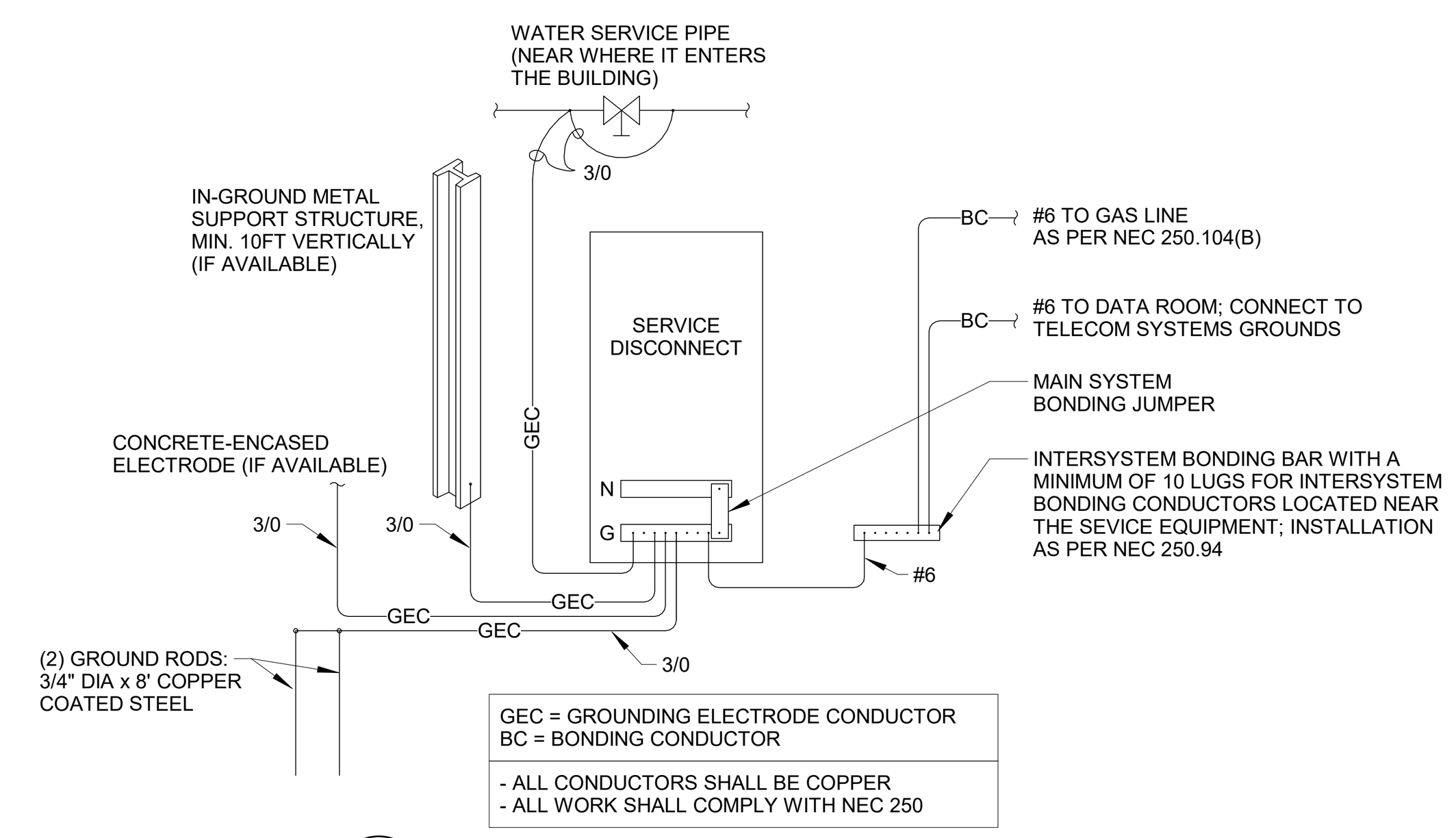
4 DATA/VOICE/ELECTRIC DETAIL
NO SCALE



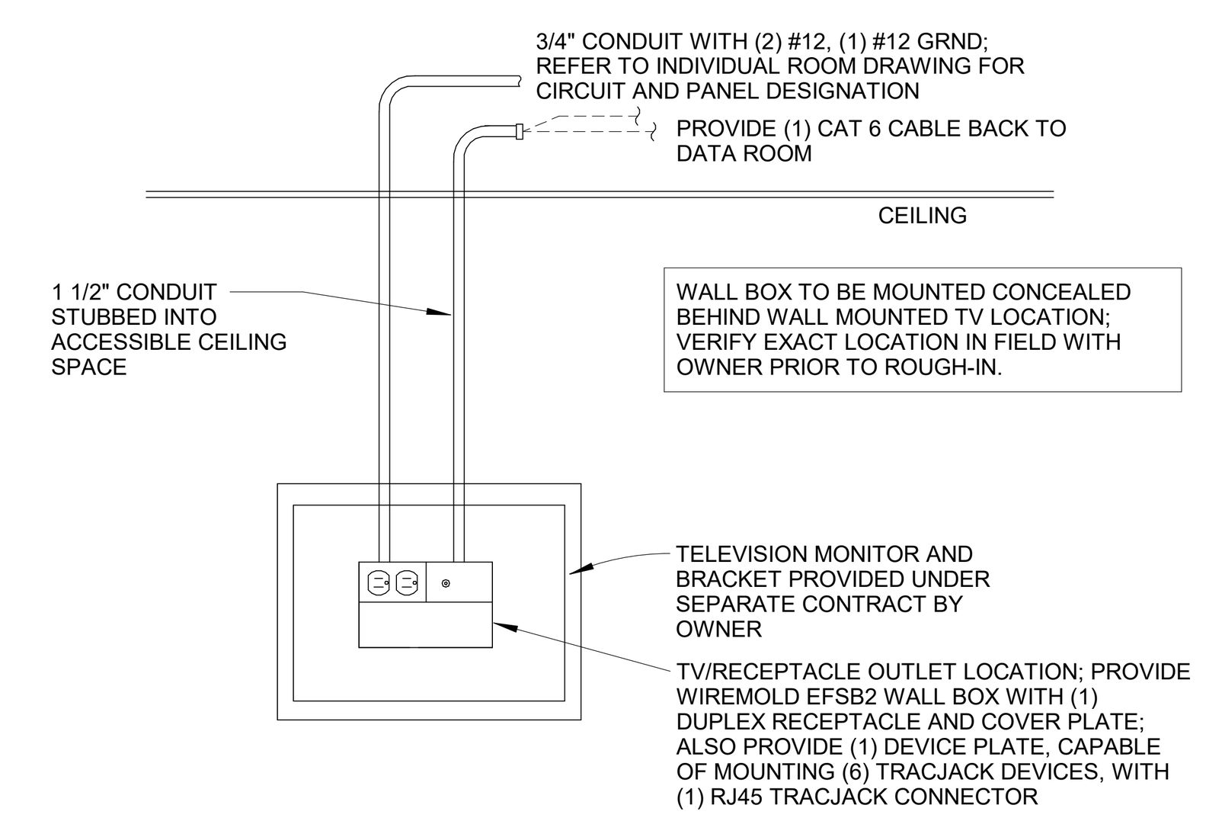
5 DATA/VOICE OUTLET DETAIL
NO SCALE



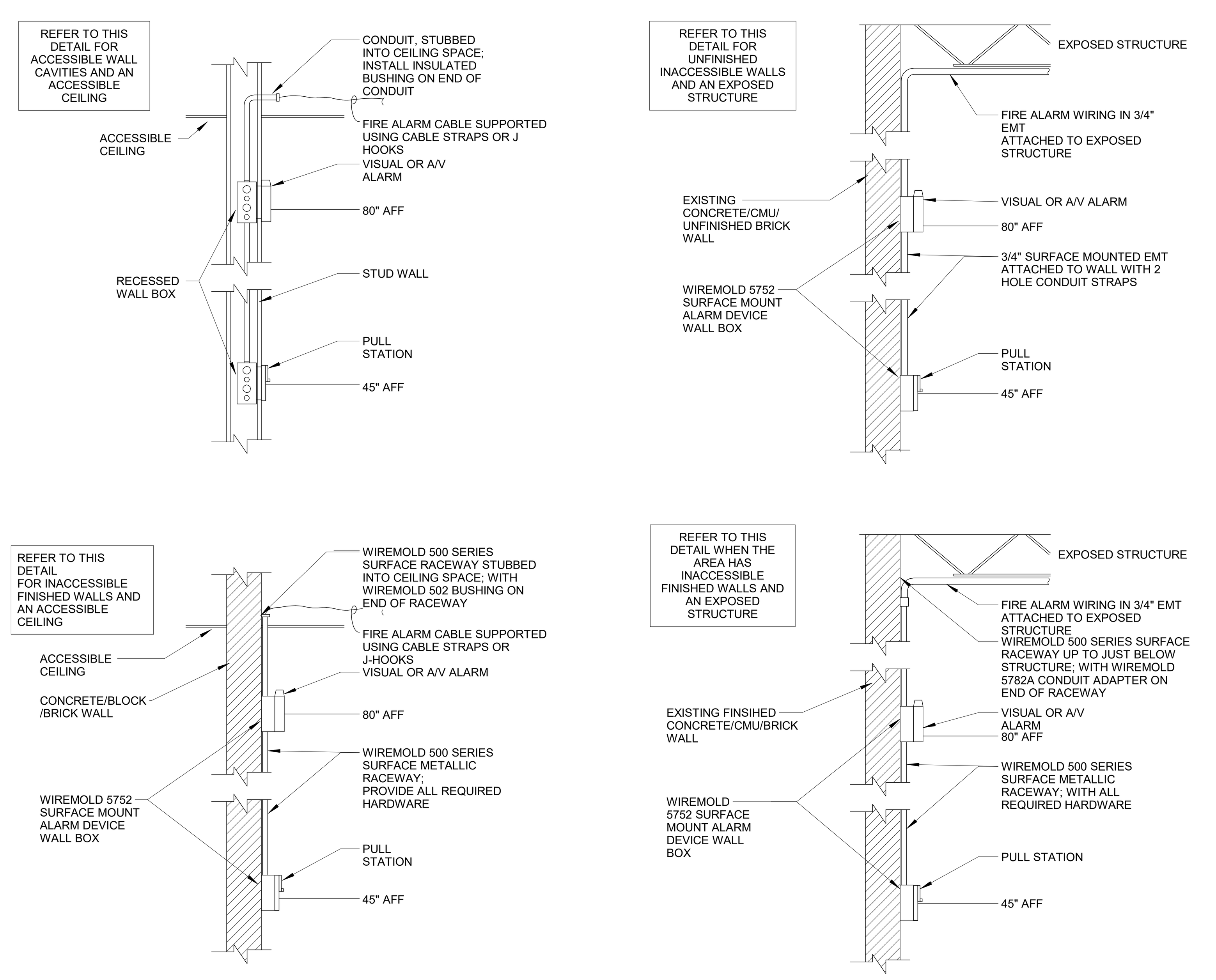
6 DATA RACK DETAIL
NO SCALE



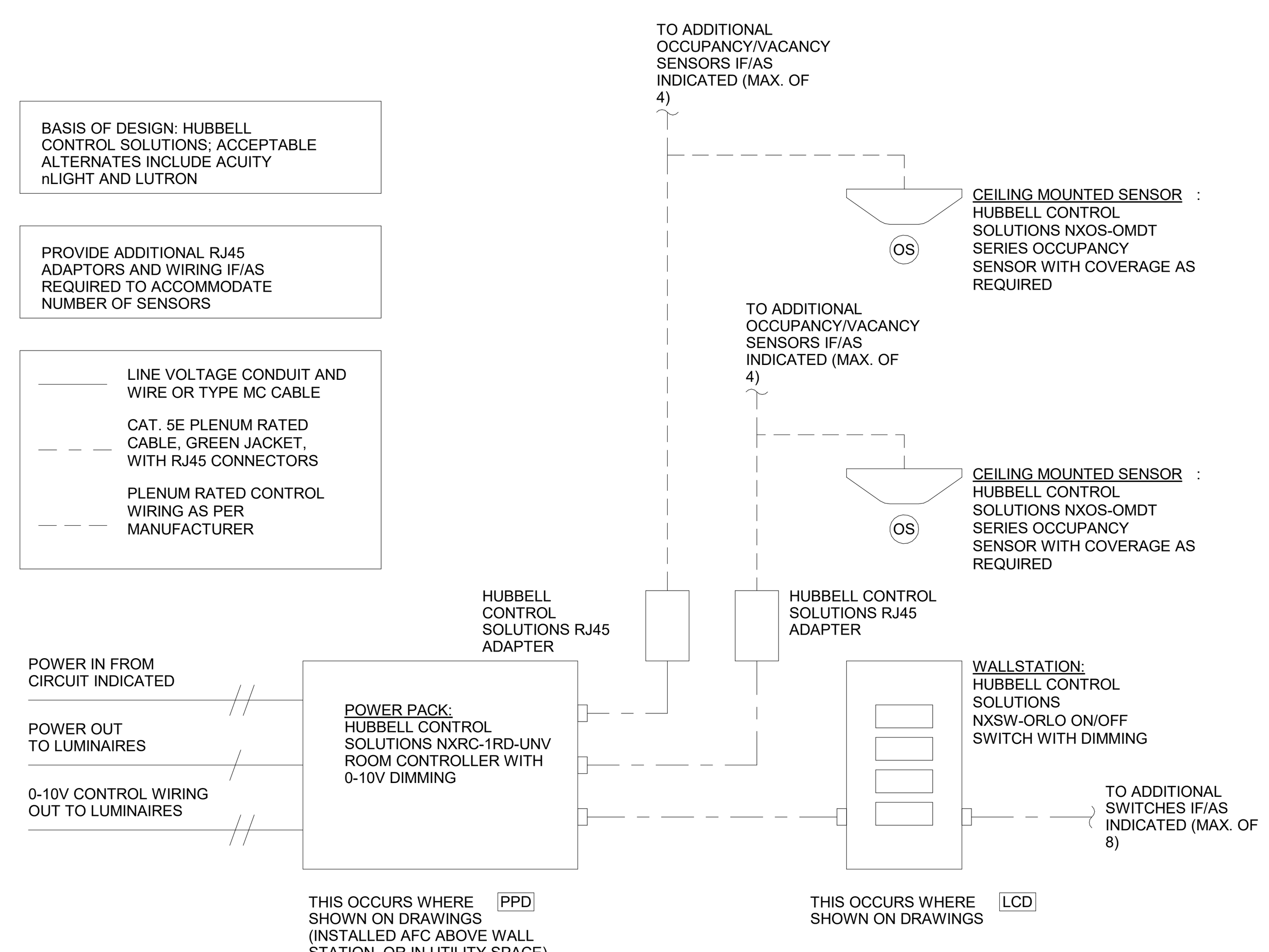
7 GROUNDING SYSTEM DETAIL
NO SCALE



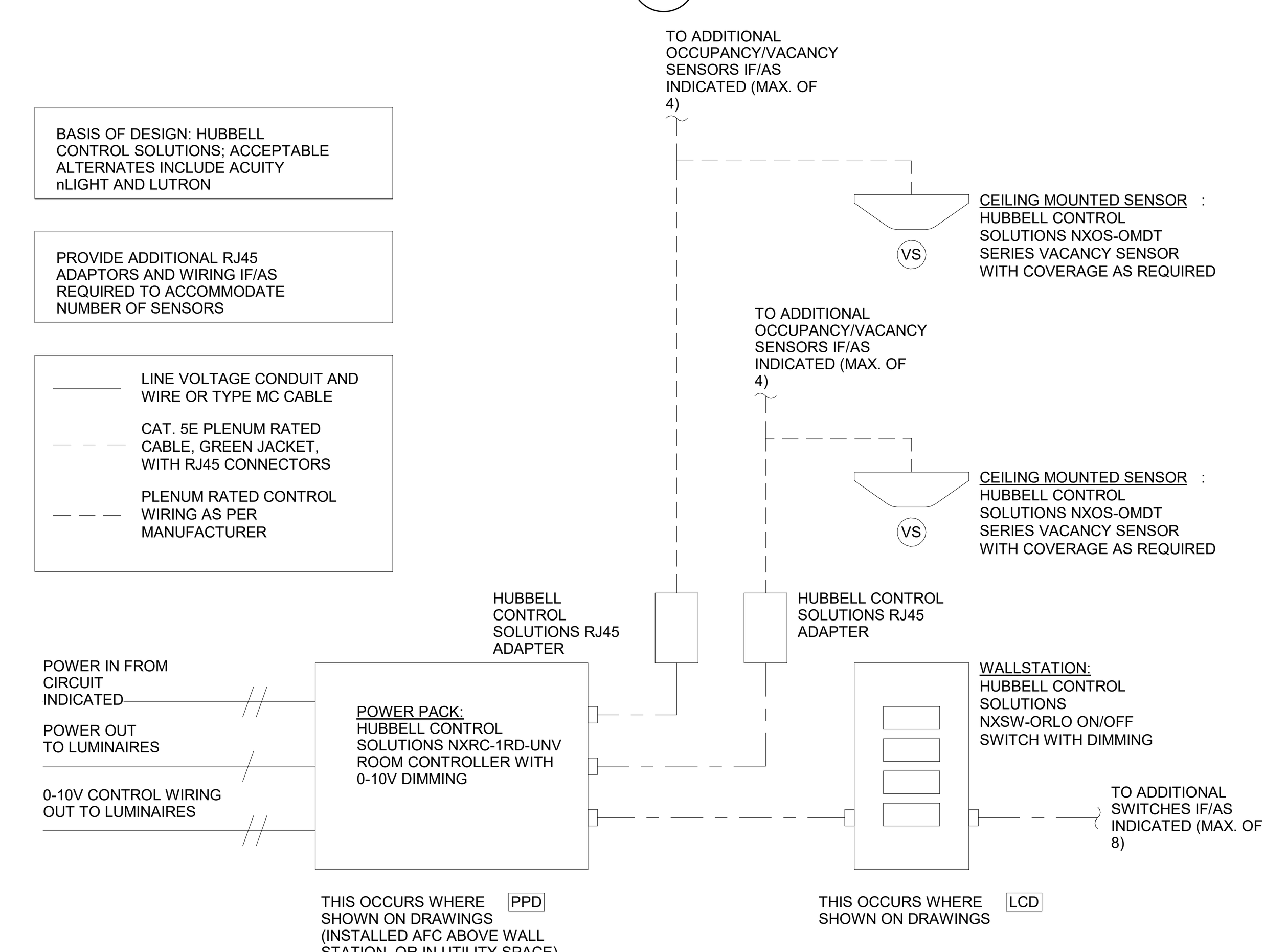
8 TV OUTLET MOUNTING DETAIL
NO SCALE



9 PULL STATION, VISUAL or A/V ALARM BOX DETAILS
NO SCALE



10 LIGHTING CONTROL WIRING DIAGRAM
NO SCALE



11 LIGHTING CONTROL WIRING DIAGRAM
NO SCALE

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DRAWING TITLE
DETAILS

PROJECT NUMBER
16.200
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SCALE
1/8" = 1'-0"
DATE
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DRAWING NUMBER
E500

Switchboard: MDP

Location: Mechanical 008 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 35,000
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: | **Wires:** 4 | **Mains Rating:** 600 A
Enclosure: | | **MCB Rating:** 600 A

Notes:

CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	PB	3	100 A	14802 VA	
2	P1	3	100 A	24868 VA	
3	P2	3	100 A	8877 VA	
4	P3	3	100 A	10786 VA	
5	M1	3	400 A	81593 VA	
6	Elevator	3	50 A	12240 VA	
7	A	2	100 A	11000 VA	
8	B	2	100 A	11000 VA	
9	C	2	100 A	11000 VA	
10	TVSS	3	60 A	0 VA	
				186165 VA	
				516.7 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	8226 VA	100.00%	8226 VA		
Existing Load	33000 VA	125.00%	41250 VA	Total Conn. Load:	186165 VA
HVAC	80849 VA	125.00%	101061 VA	Total Est. Demand:	207437 VA
KITCHEN	8000 VA	100.00%	8000 VA	Total Conn. Current:	516.7 A
Lighting	10799 VA	125.00%	13498 VA	Total Est. Demand Current:	575.8 A
Motor	15513 VA	100.00%	15513 VA		
Receptacle	29779 VA	66.79%	19890 VA		

Notes:
Square 'D' "I-Line" Type "HCP" Distribution Panel
B olt-On Breakers
Ground Bar Kit
72" Total Breaker Mounting Space

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER: MODEL	LOAD	LAMP TYPE	MOUNTING	DESCRIPTION	LUMENS	NOTES
B	COLUMBIA: CFP22-40/33/2835-CFPSMK-22	40 VA		CEILING/SURFACE	2X2 SURFACE MOUNT	4281 lm	
C20	FINELITE: HO4-ID-RO-20'-H-H-835-F-OPN-120-FA-OE-SC-C4	268 VA	LED	CEILING/SUSPENDED	20' LINEAR SUSPENDED	21660 lm	VERIFY MOUNTING HEIGHT WITH ARCHITECT
D	COLUMBIA: RLW4-35ML-FAW-ED-U	40 VA	LED	CEILING/SURFACE	LINEAR WRAP	5222 lm	
ELEV	ATLAS: ILW25LED2	24 VA	LED	WALL/SURFACE	SURFACE MOUNT LED	3092 lm	VERIFY EXACT MOUNTING LOCATION WITH ELEVATOR INSTALLER
F	PINNACLE: EV1-A-835-WC7'2"X5'5"-SF(S)-U-OL2-1-W	54 VA	LED	CEILING/WALL/RECESSED	LINEAR RECESSED WALL TO CEILING LED	125 lm	LUMINAIRE SHALL BE CONTINUOUS UP WALL AND ACROSS CEILING
FV	VERTICLE PORTION OF LUMINAIRE TYPE F	1 VA	LED			125 lm	
G	ALPHABET: NU4QD-XTM19-30LM-35K-83-HE60-UNV-DIM10-NC-WH-WH	26 VA	LED	CEILING/RECESSED/GYP	SQUARE LED DOWNLIGHT	1720 lm	
G2	ALPHABET: NU3QD-XTM19-27LM-35K-83-HE60-277-DIM10-NC-WH-WH	29 VA	LED	CEILING/RECESSED/GYP	SQUARE LED DOWNLIGHT	2350 lm	
G2E	ALPHABET: NU3QD-XTM19-27LM-35K-83-HE60-277-DIM10-NC-WH-WH-EM12	29 VA	LED	CEILING/RECESSED/GYP	SQUARE LED DOWNLIGHT	2350 lm	PROVIDE WITH EMERGENCY BATTERY PACK
G3	ALPHABET: NU4RD-XTM19-40LM-35K-83-HE60-277-DIM10-NC-WH-WH	49 VA	LED	CEILING/RECESSED/GYP	SQUARE LED DOWNLIGHT	3430 lm	
G3E	ALPHABET: NU4RD-XTM19-40LM-35K-83-HE60-277-DIM10-NC-WH-WH-EM12	49 VA	LED	CEILING/RECESSED/GYP	SQUARE LED DOWNLIGHT	3430 lm	PROVIDE WITH EMERGENCY BATTERY PACK
G4	ALPHABET: NU4QD-XTM19-30LM-35K-83-HE60-UNV-DIM10-NC-WH-WH	26 VA	LED	CEILING/RECESSED/GYP	SQUARE LED DOWNLIGHT	1720 lm	PROVIDE WITH TENMAT FF109-250 1-HOUR FIRE RATED DOWNLIGHT COVER AND INSTALL PER MANUFACTURERS RECOMMENDATIONS
G4E	ALPHABET: NU4QD-XTM19-30LM-35K-83-HE60-UNV-DIM10-NC-WH-WH-EM12	26 VA	LED	CEILING/RECESSED/GYP	SQUARE LED DOWNLIGHT	1720 lm	PROVIDE WITH TENMAT FF109-250 1-HOUR FIRE RATED DOWNLIGHT COVER AND INSTALL PER MANUFACTURERS RECOMMENDATIONS; PROVIDE EMERGENCY BATTERY PACK
GE	ALPHABET: NU4QD-XTM19-30LM-35K-83-HE60-UNV-DIM10-NC-WH-WH-EM12	26 VA	LED	CEILING/RECESSED/GYP	SQUARE LED DOWNLIGHT	1720 lm	PROVIDE WITH EMERGENCY BATTERY PACK
H2	BETA CALCO: 953105-D35-N35-S1-D1-XX	43 VA	LED	CEILING/SUSPENDED	RING PENDANT	4482 lm	VERIFY MOUNTING HEIGHT AND FINISH WITH ARCHITECT
H3	BETA CALCO: 953110-D35-N35-S1-D1-XX	64 VA	LED	CEILING/SUSPENDED	RING PENDANT	6719 lm	VERIFY MOUNTING HEIGHT AND FINISH WITH ARCHITECT
H3E	BETA CALCO: 953110-D35-N35-S1-D1-XX-RE	64 VA	LED	CEILING/SUSPENDED	RING PENDANT	6719 lm	VERIFY MOUNTING HEIGHT AND FINISH WITH ARCHITECT; PROVIDE WITH EMERGENCY BATTERY PACK
H4	BETA CALCO: 953120-D35-N35-S1-D1-XX	80 VA	LED	CEILING/SUSPENDED	RING PENDANT	9064 lm	VERIFY MOUNTING HEIGHT AND FINISH WITH ARCHITECT
H5E	BETA CALCO: 953130-D35-N35-S1-D1-XX-RE	108 VA	LED	CEILING/SUSPENDED	RING PENDANT	11350 lm	VERIFY MOUNTING HEIGHT AND FINISH WITH ARCHITECT; PROVIDE WITH EMERGENCY BATTERY PACK
J	COLUMBIA: LCL4-35ML-EU	42 VA	LED	CEILING/SURFACE	LED STRIP LIGHT	5329 lm	
JE	COLUMBIA: LCL4-35ML-EU-ELL14	42 VA	LED	CEILING/SURFACE	LED STRIP LIGHT	5329 lm	PROVIDE WITH EMERGENCY BATTERY PACK
K	FOCAL POINT: FSM2PR-ALH-FLO-250LF-35K-1C-UNV-LD1-TF-WH-5'	16 VA	LED	CEILING/RECESSED/GYP	RECESSED PERIMETER LED	1250 lm	
L4	FINELITE: HP2R-4'-V-835-F-96LG-120-SC-FC10-SF-FE-SW	37 VA	LED	CEILING/RECESSED	LINEAR RECESSED LED	3288 lm	
L6	FINELITE: HP2R-6'-V-835-F-96LG-120-SC-FC10-SF-FE-SW	55 VA	LED	CEILING/RECESSED	LINEAR RECESSED LED	4932 lm	
L10	FINELITE: HP2R-10'-V-835-F-96LG-120-SC-FC10-SF-FE-SW	92 VA	LED ARRAY	CEILING/RECESSED	LINEAR RECESSED LED	8220 lm	
L14	FINELITE: HP2R-14'-V-835-F-96LG-120-SC-FC10-SF-FE-SW	129 VA	LED	CEILING/RECESSED	LINEAR RECESSED LED	11508 lm	VERIFY CEILING TYPE WITH ARCHITECT
L14E	FINELITE: HP2R-14'-V-835-F-96LG-120-SC-FC10-SF-FE-SW-FAC CHO	129 VA	LED	CEILING/RECESSED	LINEAR RECESSED LED	11508 lm	VERIFY CEILING TYPE WITH ARCHITECT; PROVIDE WITH EMERGENCY BATTERY PACK
M	BEACON:TRP2-24L-30-4K7-3-UNV-20F-EH	30 VA	LED	WALL/SURFACE	EXTERIOR WALL PACK	3747 lm	VERIFY MOUNTING HEIGHT WITH ARCHITECT
N	LUMENPULSE: LOG-120-36-DWH-WWLF-WAM12-ETE	50 VA	LED	WALL/SURFACE	WALL MOUNTED SIGN LIGHT	2583 lm	VERIFY MOUNTING HEIGHT AND FINISH WITH ARCHITECT
O	KIM: LTV81-HS-WW-36L-3K-UV	44 VA	LED	IN GRADE	IN GROUND WALL WASH	3489 lm	MOUNT WHERE EXISTING WALL WASH WAS REMOVED
T6	BRUCK: 370GES-6'-XX/370GES-41-XX/370GES-11-XX			WALL/CEILING/SURFACE	SURFACE MOUNTED TRACK		PROVIDE ALL REQUIRED MOUNTING COMPONENTS AND CONNECTORS FOR LENGTH OF TRACK REQUIRED
T8	BRUCK: 370GES-8'-XX/370GES-41-XX/370GES-11-XX			WALL/CEILING/SURFACE	SURFACE MOUNTED TRACK		PROVIDE ALL REQUIRED MOUNTING COMPONENTS AND CONNECTORS FOR LENGTH OF TRACK REQUIRED
T16	BRUCK: 370GES-16'-XX/370GES-41-XX/370GES-11-XX			WALL/CEILING/SURFACE	SURFACE MOUNTED TRACK		PROVIDE ALL REQUIRED MOUNTING COMPONENTS AND CONNECTORS FOR LENGTH OF TRACK REQUIRED
TH	BRUCK: 350431-22LM-35K-90-36-120-ELV-XX-ECOXX	20 VA	LED	TRACK	TRACK HEAD	2200 lm	FINISH SELECTED BY ARCHITECT
U	SIMKAR: EVLED-18	12 VA	LED	UNDERCABINET/SURFACE	UNDERCABINET LED	800 lm	PROVIDE LINKING CORDS AS REQUIRED
X	DUAL-LITE: SE-x-R-W-E-I	4 VA	LED	WALL/CEILING/SURFACE	SELF POWERED EXIT SIGN		PROVIDE SINGLE OR DOUBLE FACE AS REQUIRED AT EACH LOCATION

LUMINAIRE SCHEDULE NOTES

1. CONTRACTOR SHALL VERIFY VOLTAGE AT SITE. VOLTAGE OF NORMAL AND EMERGENCY LUMINAIRES MAY VARY.
2. PROVIDE SINGLE OR DOUBLE FACE EXITS WHERE SHOWN ON DRAWING.
3. DIMENSIONS FOR CONTINUOUS LINEAR LUMINAIRES MUST BE FIELD MEASURED.
4. LUMINAIRES DESIGNATED AS HAVING INTERNAL/REMOTE EMERGENCY BATTERY PACK/BALLAST SHALL BE CAPABLE OF PRODUCING A MINIMUM ILLUMINATION OF 1100 LUMENS IN THE EMERGENCY MODE.
5. ALL FINISHES SHALL BE SELECTED BY THE ARCHITECT FROM MANUFACTURER'S FULL RANGE OF STANDARD FINISHES.
6. PROVIDE SLOPED CEILING ADAPTER IF/AS REQUIRED.
7. WHERE INDICATED, INTERNAL/REMOTE EMERGENCY BATTERY PACK/BALLAST CAPABLE OF PRODUCING A MINIMUM OUTPUT OF 1000 LUMENS IN THE EMERGENCY MODE.
8. PROVIDE HANGER BARS AS REQUIRED.
9. DIMENSIONS FOR ALL CONTINUOUS LINEAR LUMINAIRES MUST BE FIELD MEASURED.
10. PROVIDE POWER CORD ATTACHED TO AIRCRAFT CABLE OR CHAIN, WHITE OR BLACK AS SPECIFIED BY ARCHITECT/ENGINEER. PROVIDE CLEAR TIE WRAP TO SECURE POWER CABLE TO CABLE OR CHAIN.

Branch Panel: M1

Location: Curatorial Storage 318 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: Type 1 | | **MCB Rating:** 0 A

CKT	Circuit Description	Conduit & Wire	Trip	Poles	A		B		C		Poles	Trip	Conduit & Wire	Circuit Description	CKT
1	Split System	3/4"C, 2#8, #8N, #10G	35 A	2	1997 VA	915 VA					2	15 A	3/4"C, 2#12, #12N, #12G	Split System	2
3	--	--	--	--			1997 VA	915 VA			--	--	--	--	4
5	Split System	3/4"C, 2#10, #10N, #10G	25 A	2					1839 VA	1997 VA	2	35 A	3/4"C, 2#8, #8N, #10G	Split System	6
7	--	--	--	--	1839 VA	1997 VA					--	--	--	--	8
9	Split System	3/4"C, 2#8, #8N, #10G	35 A	2			1997 VA	915 VA			2	15 A	3/4"C, 2#12, #12N, #12G	Split System	10
11	--	--	--	--					1997 VA	915 VA	--	--	--	--	12
13	Split System	3/4"C, 2#8, #8N, #10G	35 A	2	1997 VA	2912 VA					2	50 A	3/4"C, 2#6, #6N, #10G	Split System	14
15	--	--	--	--			1997 VA	2912 VA			--	--	--	--	16
17	Split System	3/4"C, 2#8, #8N, #10G	35 A	2					1997 VA	1581 VA	2	25 A	3/4"C, 2#10, #10N, #10G	Split System	18
19	--	--	--	--	1997 VA	1581 VA					--	--	--	--	20
21	Split System	3/4"C, 2#8, #8N, #10G	35 A	2			915 VA	2912 VA			2	50 A	3/4"C, 2#6, #6N, #10G	Split System	22
23	--	--	--	--					915 VA	2912 VA	--	--	--	--	24
25	Split System	3/4"C, 2#10, #10N, #10G	25 A	2	2080 VA	2080 VA					2	30 A	3/4"C, 2#10, #10N, #10G	Split System	26
27	--	--	--	--			2080 VA	2080 VA			--	--	--	--	28
29	Split System	3/4"C, 2#8, #8N, #10G	40 A	2					2272 VA	2080 VA	2	30 A	3/4"C, 2#10, #10N, #10G	Split System	30
31	--	--	--	--	2272 VA	2080 VA					--	--	--	--	32
33	Split System	3/4"C, 2#12, #12N, #12G	20 A	2			1431 VA	1581 VA			2	25 A	3/4"C, 2#10, #10N, #10G	Split System	34
35	--	--	--	--					1431 VA	1581 VA	--	--	--	--	36
37	Dehumidification Unit	3/4"C, 1#12, #12N, #12G	20 A	1	960 VA	960 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Dehumidification Unit	38
39	Humidifier	3/4"C, 2#12, #12N, #12G	20 A	2			2 VA	2 VA			2	20 A	3/4"C, 2#12, #12N, #12G	Humidifier	40
41	--	--	--	--					2 VA	2 VA	--	--	--	--	42
43															44
45															46
47															48
49						4224 VA					3	60 A	1-1/4"C, 3#4, #4N, #10G	Rooftop Unit	50
51								4224 VA			--	--	--	--	52
53										4224 VA	--	--	--	--	54
				Total Load:	29889 VA		25960 VA		25744 VA						
				Total Amps:	249.4 A		216.6 A		214.5 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	79673 VA	125.00%	99591 VA		
Receptacle	1920 VA	100.00%	1920 VA	Total Conn. Load:	81593 VA
				Total Est. Demand:	101511 VA
				Total Conn. Current:	226.5 A
				Total Est. Demand Current:	281.8 A

Notes:
Square 'D' type "NQ" Panels
'Q_B' B olt-On Breakers
Ground Bar Kit

Branch Panel: PB

Location: Mechanical 008 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22,000
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | | **MCB Rating:** 0 A

CKT	Circuit Description	Conduit & Wire	Trip	Poles	A		B		C		Poles	Trip	Conduit & Wire	Circuit Description	CKT
1	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1	180 VA	180 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	2
3	Elevator Cab Lighting	3/4"C, 1#12, #12N, #12G	20 A	1			100 VA	900 VA			1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	4
5	Receptacle, Water Cooler	3/4"C, 1#12, #12N, #12G	20 A	1					1765 VA	360 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Telecom Equipment	6
7	Data Rack	3/4"C, 1#12, #12N, #12G	20 A	1	500 VA	360 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Telecom Equipment	8
9	Data Rack	3/4"C, 1#12, #12N, #12G	20 A	1			500 VA	1176 VA			1	20 A	3/4"C, 1#12, #12N, #12G	Circulator Pump	10
11	Dehumidification Unit	3/4"C, 1#12, #12N, #12G	20 A	1					960 VA	960 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Dehumidification Unit	12
13	Cabinet Heater	3/4"C, 1#12, #12N, #12G	20 A	1	500 VA	500 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Elevator Sump Pump	14
15	Lighting	3/4"C, 1#12, #12N, #12G	20 A	1			176 VA	1176 VA			1	20 A	3/4"C, 1#12, #12N, #12G	Ejector Pump	16
17	Lighting	3/4"C, 1#12, #12N, #12G	20 A	1					100 VA	864 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Sump Pump	18
19	Lighting	3/4"C, 1#12, #12N, #12G	20 A	1	224 VA	600 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Fire/Smoke Dampers	20
21	Exterior Tapelight	3/4"C, 1#12, #12N, #12G	20 A	1			240 VA								22
23	Lighting	3/4"C, 1#12, #12N, #12G	20 A	1					626 VA						24
25	Lighting	3/4"C, 1#12, #12N, #12G	20 A	1	882 VA	133 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Exhaust Fan	26
27	Lighting	3/4"C, 1#12, #12N, #12G	20 A	1			42 VA	250 VA			1	20 A	3/4"C, 1#12, #12N, #12G	Unit Heater	28
29	Lighting	3/4"C, 1#12, #12N, #12G	20 A	1					48 VA	500 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Fire Alarm Control Panel	30
				Total Load:	4059 VA		4560 VA		6183 VA						
				Total Amps:	33.8 A		38.6 A		52.2 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	2376 VA	100.00%	2376 VA		
Lighting	2338 VA	125.00%	2923 VA	Total Conn. Load:	14802 VA
Motor	2059 VA	100.00%	2059 VA	Total Est. Demand:	15387 VA
Receptacle	8029 VA	100.00%	8029 VA	Total Conn. Current:	41.1 A
				Total Est. Demand Current:	42.7 A

Notes:
Square 'D' type "NQ" Panels
'Q_B' B olt-On Breakers
Ground Bar Kit

Branch Panel: P2

Location: Storage 211 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | | **MCB Rating:** 0 A

CKT	Circuit Description	Conduit & Wire	Trip	Poles	A		B		C		Poles	Trip	Conduit & Wire	Circuit Description	CKT
1	Water Cooler	3/4"C, 1#12, #12N, #12G	20 A	1	325 VA	360 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	2
3	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1			720 VA	720 VA			1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	4
5	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1					360 VA	900 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	6
7	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1	360 VA	720 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	8
9	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1			720 VA	360 VA			1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	10
11	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1					360 VA	300 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Fire/Smoke Dampers	12
13															14
15															16
17															18
19															20
21															22
23										1236 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Lighting	24
25						364 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Lighting	26
27															28
29	Destrat Fans	3/4"C, 1#12, #12N, #12G	20 A	1					240 VA	832 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Lighting	30
				Total Load:	2129 VA		2520 VA		4228 VA						
				Total Amps:	17.7 A		21.5 A		35.7 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	300 VA	100.00%	300 VA		
Lighting	2432 VA	125.00%	3040 VA	Total Conn. Load:	8877 VA
Motor	240 VA	100.00%	240 VA	Total Est. Demand:	9485 VA
Receptacle	5905 VA	100.00%	5905 VA	Total Conn. Current:	24.6 A
				Total Est. Demand Current:	26.3 A

Notes:
Square 'D' type "NQ" Panels
'Q_B' B olt-On Breakers
Ground Bar Kit

Branch Panel: P1

Location: Prep. Kitchen 112 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | | **MCB Rating:** 0 A

CKT	Circuit Description	Conduit & Wire	Trip	Poles	A		B		C		Poles	Trip	Conduit & Wire	Circuit Description	CKT
1	Refrigerator	3/4"C, 1#12, #12N, #12G	20 A	1	1000 VA	900 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Exterior Receptacle	2
3	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1			180 VA	325 VA			1	20 A	3/4"C, 1#12, #12N, #12G	Water Cooler	4
5	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1					360 VA	540 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	6
7	Range	3/4"C, 2#6, #6N, #10G	50 A	2	4000 VA	540 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	8
9	--	--	--	--			4000 VA	720 VA			1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	10
11	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1					540 VA	900 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	12
13	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1	720 VA	360 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	14
15	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1			900 VA	1080 VA			1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	16
17	Future Floor Box	3/4"C, 1#12, #12N, #12G	20 A	1					180 VA	1900 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Motor	18
19	Future Floor Box	3/4"C, 1#12, #12N, #12G	20 A	1	180 VA	250 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Cabinet Heater	20
21	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1			360 VA	380 VA			1	20 A	3/4"C, 1#12, #12N, #12G	Lighting	22
23	Fire/Smoke Dampers	3/4"C, 1#12, #12N, #12G	20 A	1					400 VA	531 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Lighting	24
25						1500 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Lighting	26
27								870 VA			1	20 A	3/4"C, 1#12, #12N, #12G	Lighting	28
29										1252 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Lighting	30
				Total Load:	9450 VA		8815 VA		6603 VA						
				Total Amps:	81.6 A		76.3 A		55 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	400 VA	100.00%	400 VA		
KITCHEN	8000 VA	100.00%	8000 VA	Total Conn. Load:	24868 VA
Lighting	4533 VA	125.00%	5666 VA	Total Est. Demand:	26001 VA
Motor	2150 VA	100.00%	2150 VA	Total Conn. Current:	69 A
Receptacle	9785 VA	100.00%	9785 VA	Total Est. Demand Current:	72.2 A

Notes:
Square 'D' type "NQ" Panels
'Q_B' B olt-On Breakers
Ground Bar Kit

Branch Panel: P3

Location: Curatorial Storage 318 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: MDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | | **MCB Rating:** 0 A

CKT	Circuit Description	Conduit & Wire	Trip	Poles	A		B		C		Poles	Trip	Conduit & Wire	Circuit Description	CKT
1	Dryer	3/4"C, 2#10, #10N, #10G	30 A	2	2475 VA	360 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	2
3	--	--	--	--			2475 VA	360 VA			1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	4
5	Washer	3/4"C, 1#12, #12N, #12G	20 A	1					180 VA	360 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	6
7	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1	720 VA	720 VA					1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	8
9	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1			360 VA	360 VA			1	20 A	3/4"C, 1#12, #12N, #12G	Receptacle	10
11	Fire/Smoke Dampers	3/4"C, 1#12, #12N, #12G	20 A	1					200 VA						12
13															14
15															16
17															18
19															20
21															22
23															24
25															26
27								886 VA			1	20 A	3/4"C, 1#12, #12N, #12G	Lighting	28
29	Receptacle	3/4"C, 1#12, #12N, #12G	20 A	1					720 VA	619 VA	1	20 A	3/4"C, 1#12, #12N, #12G	Lighting	30
				Total Load:	4275 VA		4441 VA		2072 VA						
				Total Amps:	38.4 A		39.8 A		17.3 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	5150 VA	100.00%	5150 VA		
Lighting	1499 VA	125.00%	1874 VA	Total Conn. Load:	10786 VA
Receptacle	4140 VA	100.00%	4140 VA	Total Est. Demand:	11160 VA
				Total Conn. Current:	29.9 A
				Total Est. Demand Current:	31 A

Notes:
Square 'D' type "NQ" Panels
'Q_B' B olt-On Breakers
Ground Bar Kit

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SC P.E. # 39067 MD P.E. # 58304
CO P.E. # 60950 KY P.E. # 35456

JRP drawn | JRP designed | CTS checked

drawing not valid without authorized sae signatures

SAE Project No: FHC-14619

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL CHRISTOPHER T. STRUNK ENGINEER NO. 080014

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SEAL

SIGNATURE

Monroe County Historical Association Alteration & Heritage Center Addition

900 Main Street - Stroudsburg, PA 18360

REVISIONS

01.26.23 - Issued for Permit

No.	Date	Description
1	02.07.23	Addendum 1

DRAWING TITLE
SCHEDULES

PROJECT NUMBER 16.200
DRAWN BY JRP
SCALE
DATE 01.26.23
DRAWING NUMBER
E600