

ADDENDUM ONE

Addendum One to the drawings and specifications prepared by Myszak + Palmer for **Pantheon Business Theatre Renovations** for **Pantheon Board of Directors**, Vincennes, Indiana.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum and required by the intent of the original contract documents. All Contractors shall acknowledge on their bid form that they have received this Addendum, Subsequent Addenda, and include the appropriate content of same within their bid proposal

ADDENDUM ONE

SPECIFICATIONS

1. **Sign In Sheet** **PRE-BID MEETING SIGN IN SHEET**
 - A. Sign in sheet from the Pre-Bid Meeting held Tuesday, January 17, 2019 at the project site shall be distributed in Addendum 1 to all plan holders and those in attendance. See the attached sign in sheet
2. **Section 002113** **INSTRUCTIONS TO BIDDERS SPECIFICATION**
 - A. paragraph S, Liquidated Damages for the project shall be \$500/per day for each consecutive calendar day after the completion date of October 31, 2019
3. **Section 004323** **ALTERNATES FORM SPECIFICATION**
 - A. See attached revised alternates form. G.C. shall provide alternate pricing for complete installation of new stage curtain.
4. **Asbestos Report** **ASBESTOS REPORT SPECIFICATION**
 - A. See the attached asbestos report
5. **Section 055000** **METAL FABRICATIONS SPECIFICATION**
 - A. paragraph 1.3.A.1, Delete any reference to metal fixed wall ladders
6. **Section 057300** **ALUMINUM RAILINGS SPECIFICATION**
 - A. paragraph 1.1, Delete any reference to ornamental stainless steel railing system with glass infill and ornamental stainless steel railing system with horizontal bars
7. **Section 077100** **ROOF SPECIALITIES SPECIFICATION**
 - A. paragraph K, Delete any reference to EIFS foam cornice.
 - B. paragraph N, Delete any reference to canted roof-edge fascia
8. **Section 084113** **ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS SPECIFICATION**
 - A. All aluminum-framed entrances and storefronts shall be dark bronze.
9. **Section 087100** **DOOR HARDWARE SPECIFICATION**
 - A. See the attached door hardware specification

10. Section 095113 ACOUSTICAL TILE CEILINGS SPECIFICATION

- A. Basis of Design product for acoustical panel ceilings in wet areas (restrooms, kitchen, etc.):
 - a. Armstrong Ceiling Solutions-
White Kitchen Zone square lay-in 2'x2'x5/8" panel with 15/16" Prelude suspension system.

11. Section 099000 PAINTING AND COATING SPECIFICATION

- A. All paint on walls shall be latex 'flat' finish

12. Section 102213 TOILET COMPARTMENTS SPECIFICATION

- A. Basis of Design Product: Scranton Products, Hiny Hiders

13. Specification 122200 CURTAINS AND DRAPES SPECIFICATION

- A. Delete all reference to specification section 122200 curtains and drapes

14. Drawing D1.0 DRAWING CLARIFICATION

GENERAL DEMOLITION NOTES:

A.) THE PURPOSE OF THESE DRAWINGS IS TO CONVEY A GENERAL SCOPE TO THE EXTERIOR AND INTERIOR DEMOLITION OF THE PROJECT. NOT EVERY LOOSE BRICK OR MORTAR AREA, LEAKING GUTTER, ETC. IS SHOWN ON THE PLAN. PRIOR TO BIDDING THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE EXTENTS OF THE PROJECT.

- A. Keynote #11 – Demolish existing bulkhead where sagging
- B. Keynote #27 - Demolish existing pier
- C. Keynote #28 – Demolish existing lattice from ceiling and use for patchwork on proscenium. Suspend drywall
- D. Keynote #55 – Fill room with sand for new concrete above. Compact in 8" lifts
- E. Keynote #59 – Cut piers as required for new slope
- F. Keynote #60 – Remove shelves and debris

15. Drawing D1.1 DRAWING CLARIFICATION

- A. Keynote #11 – Demolish existing bulkhead where sagging
- B. Keynote #27 - Demolish existing pier
- C. Keynote #28 – Demolish existing lattice from ceiling and use for patchwork on proscenium. Suspend drywall
- D. Keynote #55 – Fill room with sand for new concrete above. Compact in 8" lifts
- E. Keynote #59 – Cut piers as required for new slope
- F. Keynote #60 – Remove shelves and debris

16. Drawing D1.3 DRAWING CLARIFICATION

- A. Keynote #11 – Demolish existing bulkhead where sagging
- B. Keynote #27 - Demolish existing pier
- C. Keynote #28 – Demolish existing lattice from ceiling and use for patchwork on proscenium. Suspend drywall
- D. Keynote #55 – Fill room with sand for new concrete above. Compact in 8" lifts
- E. Keynote #59 – Cut piers as required for new slope

- F. Keynote #60 – Remove shelves and debris
- G. Call Out – Remove all debris from this room. Seat backs to remain property of the owner.

17. Drawing D1.3

DRAWING CLARIFICATION

- A. Keynote #11 – Demolish existing bulkhead where sagging
- B. Keynote #27 - Demolish existing pier
- C. Keynote #28 – Demolish existing lattice from ceiling and use for patchwork on proscenium.
Suspend drywall
- D. Keynote #55 – Fill room with sand for new concrete above. Compact in 8" lifts
- E. Keynote #59 – Cut piers as required for new slope
- F. Keynote #60 – Remove shelves and debris
- G. Interior Building Demolition 4 – Keynote 45 changed to 46

18. Drawing A3.1

DRAWING CLARIFICATION

- A. West Elevation – Door 105A (right of ticket booth) to be changed to 105B
- B. South Elevation – New spandrel panel to be placed on upper section of window. Lower section of window to remain.

19. Drawing A7.1, A7.2, A7.3

DRAWING CLARIFICATION

- A. Vinyl faced acoustical tile ceiling shall be installed in all restrooms and kitchen
- B. All areas where plaster ceilings exist, they shall remain and be patched as needed and painted.
- C. Corridor on second level shall be acoustical tile ceiling

20. Drawing M.1

DRAWING CLARIFICATION

- A. Revised ductwork

21. Drawing M.6

DRAWING CLARIFICATION

- A. Revised equipment model numbers

SUPPLEMENTAL INFORMATION

Pre-bid Meeting sign-in sheet

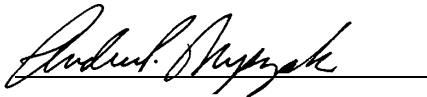
DRAWINGS

Re-issued Drawing Sheet A0.5
 Addendum 1 Drawing A0.6
 Addendum 1 Drawing D1.0
 Addendum 1 Drawing D1.1
 Addendum 1 Drawing D1.2
 Addendum 1 Drawing D1.3
 Re-issued Drawing Sheet ST1.0
 Re-issued Drawing Sheet ST1.1
 Re-issued Drawing Sheet ST1.2
 Re-issued Drawing Sheet ST1.3
 Re-issued Drawing Sheet ST1.4
 Re-issued Drawing Sheet ST1.5
 Addendum 1 Drawing A1.0
 Re-issued Drawing Sheet A1.1
 Re-issued Drawing Sheet A5.0

Re-issued Drawing Sheet A6.0
Re-issued Drawing Sheet M.1
Re-issued Drawing Sheet M.6

Pages 1 through 66 constitute the total makeup of **Addendum One** with attached drawings and other supporting data following page 4. Contractor shall notify Architect if all pages are not received.

myszak + palmer
ARCHITECTS

A handwritten signature in black ink, appearing to read "Andrew Myszak", is written over a horizontal line.

Pre-Bid Meeting

PANTHEON BUSINESS THEATER
Thursday, January 17, 2019 1:00 p.m. EDT

Bids Due: 2/19/19 @ 3 p.m. EDT

	Name	Company	Phone	e-mail
1	Michael	Wolf Const.	888-2260	wolf@wolfconstruction.co
2	Matthew	Hendrixson Const.	890-6244	mt@hendrixsonconst.com
3	Neil Weyer	Weyer Electric	367-1650	neil@weyerelectric.com
4	Kristin Heinz	Heinz Associates	812-634-9338	kristin@heinzassociates.net
5	Terry Howard	Tri-State Fire	812-453-9227	thoward@tristatefire.com
6	Jim Dishner	Ryan Fire	317-645-3282	jdishner@ryanfire.com
7	Jerry Smith	Smith Elec	812-726-1105	jerry@smithelectric@gmail.com
8	MARY WELP	SEVEN Construction	812-630-8523	mwp@sevenconstruction.com
9	BRAD BOER	SEVEN Caus.	812-367-1340	BRAD@SEVENCAUS.COM
10	CHRIS ROBERTS	Danco Const.	317 414 0298	croberts@danco-const.com
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19				

DOCUMENT 004323 - ALTERNATES FORM

1.1 BID INFORMATION

- A. Bidder: _____.
- B. Prime Contract: _____.
- C. Project Name: Pantheon Theatre
- D. Project Location: 428 Main Street, Vincennes, Indiana 47591
- E. Owner:
- F. Architect: Myszak + Palmer Architects
- G. Architect Project Number: 15-02

1.2 BID FORM SUPPLEMENT

- A. This form is required to be attached to the Bid Form.

1.3 DESCRIPTION

- A. The undersigned Bidder proposes the amount below be added to or deducted from the Base Bid if particular alternates are accepted by Owner. Amounts listed for each alternate include costs of related coordination, modification, or adjustment.
- B. If the alternate does not affect the Contract Sum, the Bidder shall indicate "NO CHANGE."
- C. If the alternate does not affect the Work of this Contract, the Bidder shall indicate "NOT APPLICABLE."
- D. The Bidder shall be responsible for determining from the Contract Documents the affects of each alternate on the Contract Time and the Contract Sum.
- E. Owner reserves the right to accept or reject any alternate, in any order, and to award or amend the Contract accordingly within 60 days of the Notice of Award unless otherwise indicated in the Contract Documents.
- F. Acceptance or non-acceptance of any alternates by the Owner shall have no affect on the Contract Time.

1.4 SCHEDULE OF ALTERNATES

- A. Alternate No. 1: Demolition and install of new exterior doors and windows. (See sheets A3.1 - A3.6)

1. _____ Dollars
(\$_____).

- B. Alternate No. 2: Complete installation of new stage curtain.

1. _____ Dollars
(\$_____).

1.5 SUBMISSION OF BID SUPPLEMENT

Respectfully submitted this ____ day of _____, 2019.

Submitted By: _____

(Name of bidding firm or corporation)

Authorized
Signature: _____

(Handwritten signature)

Signed By: _____

(Type or print name)

Title: _____

(Owner/Partner/President/Vice President)

END OF DOCUMENT 004323

ASBESTOS INSPECTION REPORT

**Theatre
Vincennes, IN**

FOR

**IN VIN
PO Box 1145
Vincennes, IN 47591**

BY

**ELITE ENVIRONMENTAL & SAFETY SERVICES, INC.
PO BOX 6405
EVANSVILLE, IN 47719
812-424-7441**

ELITE JOB # 17-4244

October 4, 2017



October 4, 2017

IN VIN
Attn: Ellen Harper
PO Box 1145
Vincennes, IN 47591

Phone: 812-890-4900

Re: Asbestos Inspection of the Theatre

Dear Mrs. Harper

Please find attached, for your review, the results from Elite Environmental & Safety Services, Inc. asbestos inspection performed by your request on September 19, 2017

Twelve (12) suspect material samples were collected from the Theatre and relinquished to Stat Microscopy Services for analysis. The samples were analyzed by Polarized Light Microscopy using EPA Method 600/R-93/116.

Areas that were sampled included (floor tile, texture, ceiling, ceiling texture, ceiling tile, plaster, press wood, wall plaster, hardboard, ceiling plaster, flooring, skim coat, unknown board, and cove base).

Four (4) samples tested positive for asbestos content.

<u>SAMPLE</u>	<u>DESCRIPTION</u>		<u>TYPE OF ASBESTOS</u>	<u>PERCENT</u>
AB07	Air Handler Mastic	Non-Friable	Chrysotile	10%
AB09	Glue Dot	Non-Friable	Chrysotile	3%
AB10	Insulation	Friable	Chrysotile	70%
AB12	Pipe Insulation Layer #1 (Tar Material)	Non-Friable	Chrysotile	8%

The Air Handler Mastic, glue dot, and insulation are all non-friable and in good condition. These materials do not have to be removed by an IN licensed contractor but must be removed by someone asbestos trained competent person level. Elite would be willing to assist any contractor to help complete this work.

The pipe insulation in the crawlspace/basement area is friable and if it is going to be removed it will have to be done by an Indiana licensed contractor. Elite is an Indiana licensed contractor.

Should you have any questions or need additional information, please do not hesitate to contact Bret Kramer at (812) 424-7441 or 812-455-0421.

Thank you for allowing Elite Environmental & Safety Services, Inc. to be of service to you.

Sincerely,

A handwritten signature in black ink, appearing to read "Bret M. Kramer". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Bret M. Kramer, Vice President

IN Asbestos Inspector Accreditation #190826069

Expires: 7-6-18

STAT MICROSCOPY SERVICES

2909 N. Stockwell Road Evansville, IN 47715

812-477-6666

BULK ASBESTOS REPORT

To: Bret

From: Sharon Trent

Company: Elite Environmental Services

e-mail: Jennifer@calelite.
com

Project Name / #PO# 21048 / Job #17- 4244
Invin

Received: 9-21-17

Analysis Method: EPA 600/R93/116

SAMPLE #	SAMPLE LOCATION/ DESCRIPTION	TYPE OF ASBESTOS	PERCENT ASBESTOS
AB01	Glue Dot		0
AB02	Ceiling Tile		0
AB03	Plaster Ceiling		0
AB04	Skim Coat		0
AB05	Plaster Wall		0
AB06	Air Handler Insulation		0
AB07	Air Handler Mastic	Chrysotile	10%
AB08	Ceiling – Projection Room		0
AB09	Glue Dot	Chrysotile	3%
AB10	Insulation		70%

Elite Environmental Services, Inc.

Page 2 of 2

9-21-17

Analysis Method: EPA 600/R93/116

SAMPLE #	SAMPLE LOCATION/ DESCRIPTION	TYPE OF ASBESTOS	PERCENT ASBESTOS
AB11	Vibration Cloth		0
AB12	Pipe Insulation NOTE: Layer 1 (tar material) Layer 2 (cork material)	Chrysotile	8% 0

NOTE TO CLIENT: When samples are reported negative, it should be assumed that all layers of multilayered samples are negative unless reported individually.

ANALYST Sharon Trent

SECTION 08 71 00 – DOOR HARDWARE

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section includes:

- 1. Mechanical and electrified door hardware for:
 - a. Swinging doors.
- 2. Electronic access control system components, including:
 - a. Electronic access control devices.
- 3. Field verification, preparation and modification of existing doors and frames to receive new door hardware.
- 4. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.

B. Exclusions: Unless specifically listed in hardware sets, hardware is not specified in this section for:

- 1. Windows
- 2. Cabinets (casework), including locks in cabinets
- 3. Signage
- 4. Toilet accessories
- 5. Overhead doors

C. Related Sections:

- 1. Division 01 Section "Alternates" for alternates affecting this section.
- 2. Division 06 Section "Rough Carpentry"
- 3. Division 06 Section "Finish Carpentry: Installation of Finish Hardware"
- 4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
- 5. Division 08 Section "Hollow Metal Frames"
- 6. Division 08 Section "Flush Wood Doors"
- 7. Division 08 Section "Aluminum Framed Entrances and Storefronts"
- 8. Division 09 sections for touchup finishing or refinishing of existing openings modified by this section.

9. Division 10 Section "Operable Partitions"
10. Division 26 sections for connections to electrical power system and for low-voltage wiring.
11. Division 28 sections for coordination with other components of electronic access control system.

1.03 REFERENCES

A. UL - Underwriters Laboratories

1. UL 10B - Fire Test of Door Assemblies
2. UL 10C - Positive Pressure Test of Fire Door Assemblies
3. UL 1784 - Air Leakage Tests of Door Assemblies
4. UL 305 - Panic Hardware

B. DHI - Door and Hardware Institute

1. Sequence and Format for the Hardware Schedule
2. Recommended Locations for Builders Hardware
3. Key Systems and Nomenclature

C. ANSI - American National Standards Institute

1. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties

1.04 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 requirements.
2. Highlight, encircle, or otherwise specifically identify on submittals deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.
3. Prior to forwarding submittal, comply with procedures for verifying existing door and frame compatibility for new hardware, as specified in PART 3, "EXAMINATION" article, herein.

B. Action Submittals:

1. Product Data: Technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
 - a. Wiring Diagrams: For power, signal, and control wiring and including:
 - 1) Details of interface of electrified door hardware and building safety and security systems.
 - 2) Schematic diagram of systems that interface with electrified door hardware.
 - 3) Point-to-point wiring.
 - 4) Risers.

3. Samples for Verification: If requested by Architect, submit production sample or sample installations of each type of exposed hardware unit in finish indicated, and tagged with full description for coordination with schedule.
 - a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.
4. Door Hardware Schedule: Submit schedule with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule as published by the Door and Hardware Institute. Indicate complete designations of each item required for each door or opening, include:
 - a. Door Index; include door number, heading number, and Architects hardware set number.
 - b. Opening Lock Function Spreadsheet: List locking device and function for each opening.
 - c. Quantity, type, style, function, size, and finish of each hardware item.
 - d. Name and manufacturer of each item.
 - e. Fastenings and other pertinent information.
 - f. Location of each hardware set cross-referenced to indications on Drawings.
 - g. Explanation of all abbreviations, symbols, and codes contained in schedule.
 - h. Mounting locations for hardware.
 - i. Door and frame sizes and materials.
 - j. Name and phone number for local manufacturer's representative for each product.
 - k. Operational Description of openings with any electrified hardware (locks, exits, electromagnetic locks, electric strikes, automatic operators, door position switches, magnetic holders or closer/holder units, and access control components). Operational description should include operational descriptions for: egress, ingress (access), and fire/smoke alarm connections.
 - 1) Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work that is critical in Project construction schedule.
5. Key Schedule:
 - a. After Keying Conference, provide keying schedule listing levels of keying as well as explanation of key system's function, key symbols used and door numbers controlled.
 - b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
 - c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
 - d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
 - e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion.
 - 1) Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
 - f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

6. Templates: After final approval of hardware schedule, provide templates for doors, frames and other work specified to be factory or shop prepared for door hardware installation.
- C. Informational Submittals:
1. Qualification Data: For Supplier, Installer and Architectural Hardware Consultant.
 2. Product data for electrified door hardware:
 - a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
 3. Certificates of Compliance:
 - a. UL listings for fire-rated hardware and installation instructions if requested by Architect or Authority Having Jurisdiction.
 - b. Installer Training Meeting Certification: Letter of compliance, signed by Contractor, attesting to completion of installer training meeting specified in "QUALITY ASSURANCE" article, herein.
 - c. Electrified Hardware Coordination Conference Certification: Letter of compliance, signed by Contractor, attesting to completion of electrified hardware coordination conference, specified in "QUALITY ASSURANCE" article, herein.
 4. Warranty: Special warranty specified in this Section.
- D. Closeout Submittals:
1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:
 - a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
 - b. Catalog pages for each product.
 - c. Factory order acknowledgement numbers (for warranty and service)
 - d. Name, address, and phone number of local representative for each manufacturer.
 - e. Parts list for each product.
 - f. Final approved hardware schedule, edited to reflect conditions as-installed.
 - g. Final keying schedule
 - h. Copies of floor plans with keying nomenclature
 - i. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.
 - j. Copy of warranties including appropriate reference numbers for manufacturers to identify project.

1.05 QUALITY ASSURANCE

- A. Supplier Qualifications and Responsibilities: Recognized architectural hardware supplier with record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that provides certified Architectural Hardware Consultant (AHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
1. Warehousing Facilities: In Project's vicinity.
 2. Scheduling Responsibility: Preparation of door hardware and keying schedules.
 3. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.

4. Coordination Responsibility: Assist in coordinating installation of electronic security hardware with Architect and electrical engineers and provide installation and technical data to Architect and other related subcontractors.
 - a. Upon completion of electronic security hardware installation, inspect and verify that all components are working properly.
- B. Architectural Hardware Consultant Qualifications: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:
 1. For door hardware, DHI-certified, Architectural Hardware Consultant (AHC).
 2. Can provide installation and technical data to Architect and other related subcontractors.
 3. Can inspect and verify components are in working order upon completion of installation.
 4. Capable of producing wiring diagrams.
 5. Capable of coordinating installation of electrified hardware with Architect and electrical engineers.
- C. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.
- D. Fire-Rated Door Openings: Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed products tested by Underwriters Laboratories, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.
- E. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
- F. Accessibility Requirements: For door hardware on doors in an accessible route, comply with governing accessibility regulations cited in "REFERENCES" article, herein.
- G. Keying Conference
 1. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
 - a. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
 - b. Preliminary key system schematic diagram.
 - c. Requirements for key control system.
 - d. Requirements for access control.
 - e. Address for delivery of keys.
- H. Pre-installation Conference
 1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 2. Inspect and discuss preparatory work performed by other trades.
 3. Inspect and discuss electrical roughing-in for electrified door hardware.
 4. Review sequence of operation for each type of electrified door hardware.
 5. Review required testing, inspecting, and certifying procedures.
- I. Coordination Conferences:

1. Installation Coordination Conference: Prior to hardware installation, schedule and hold meeting to review questions or concerns related to proper installation and adjustment of door hardware.
2. Electrified Hardware Coordination Conference: Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site.
- B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.
 1. Deliver each article of hardware in manufacturer's original packaging.
- C. Project Conditions:
 1. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
 2. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
- D. Protection and Damage:
 1. Promptly replace products damaged during shipping.
 2. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work.
 3. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.
- E. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.
- F. Deliver keys and permanent cores to Owner by registered mail or overnight package service.

1.07 COORDINATION

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

- E. Existing Openings: Where existing doors, frames and/or hardware are to remain, field verify existing functions, conditions and preparations and coordinate to suit opening conditions and to provide proper door operation.

1.08 WARRANTY

- A. Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Beginning from date of Substantial Completion, for durations indicated.
 - a. Closers:
 - 1) Mechanical: 10 years.
 - 2) Electrified: 2 years.
 - b. Automatic Operators: 2 years.
 - c. Exit Devices:
 - 1) Mechanical: 3 years.
 - 2) Electrified: 1 year.
 - d. Locksets:
 - 1) Mechanical: 3 years.
 - 2) Electrified: 1 year.
 - e. Key Blanks: Lifetime
 - 2. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.

1.09 MAINTENANCE

- A. Maintenance Tools: Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Approval of manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category shall be in accordance with QUALITY ASSURANCE article, herein.
- B. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.
- C. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.02 MATERIALS

A. Fasteners

1. Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation.
2. Furnish screws for installation with each hardware item. Finish exposed (exposed under any condition) screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
3. Provide concealed fasteners for hardware units exposed when door is closed except when no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless thru-bolts are required to fasten hardware securely. Review door specification and advise Architect if thru-bolts are required.
4. Install hardware with fasteners provided by hardware manufacturer.

B. Modification and Preparation of Existing Doors: Where existing door hardware is indicated to be removed and reinstalled.

1. Provide necessary fillers, Dutchmen, reinforcements, and fasteners, compatible with existing materials, as required for mounting new opening hardware and to cover existing door and frame preparations.
2. Use materials which match materials of adjacent modified areas.
3. When modifying existing fire-rated openings, provide materials permitted by NFPA 80 as required to maintain fire-rating.

C. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

D. Cable and Connectors: Hardwired Electronic Access Control Lockset and Exit Device Trim:

1. Data: 24AWG, 4 conductor shielded, Belden 9843, 9841 or comparable.
2. DC Power: 18 AWG, 2 conductor, Belden 8760 or comparable.
3. Provide type of data and DC power cabling required by access control device manufacturer for this installation.
4. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with sufficient number and wire gauge with standardized Molex plug connectors to accommodate electric function of specified hardware. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.

2.03 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Ives 5BB Series.
2. Acceptable Manufacturers and Products: Hager BB Series, McKinney TA/T4A Series.

B. Requirements:

1. Provide hinges conforming to ANSI/BHMA A156.1.
2. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
 - a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
 - b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high
3. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
 - a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
 - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
4. 2 inches or thicker doors:
 - a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
 - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
5. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
6. Where new hinges are specified for existing doors or existing frames, provide new hinges of identical size to hinge preparation present in existing door or existing frame.
7. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
 - a. Steel Hinges: Steel pins
 - b. Non-Ferrous Hinges: Stainless steel pins
 - c. Out-Swinging Exterior Doors: Non-removable pins
 - d. Out-Swinging Interior Lockable Doors: Non-removable pins
 - e. Interior Non-lockable Doors: Non-rising pins
8. Width of hinges: 4-1/2 inches (114 mm) at 1-3/4 inch (44 mm) thick doors, and 5 inches (127 mm) at 2 inches (51 mm) or thicker doors. Adjust hinge width as required for door, frame, and wall conditions to allow proper degree of opening.
9. Provide hinges with electrified options as scheduled in the hardware sets. Provide with sufficient number and wire gage to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component.
10. Provide mortar guard for each electrified hinge specified.
11. Provide spring hinges where specified. Provide two spring hinges and one bearing hinge per door leaf for doors 90 inches (2286 mm) or less in height. Provide one additional bearing hinge for each 30 inches (762 mm) of additional door height.

2.04 ELECTRIC POWER TRANSFER

- A. Manufacturers:
 - a. Scheduled Manufacturer: Von Duprin EPT-10.
 - b. Acceptable Manufacturers: ABH PT1000, Securitron CEPT-10.
- B. Provide power transfer with electrified options as scheduled in the hardware sets. Provide with number and gage of wires sufficient to accommodate electric function of specified hardware.
- C. Locate electric power transfer per manufacturer's template and UL requirements, unless interference with operation of door or other hardware items.

2.05 FLUSH BOLTS

A. Manufacturers:

1. Scheduled Manufacturer: Ives.
2. Acceptable Manufacturers: Burns, Rockwood.

B. Requirements:

1. Provide automatic, constant latching, and manual flush bolts with forged bronze or stainless-steel face plates, extruded brass levers, and with wrought brass guides and strikes. Provide 12 inch (305 mm) steel or brass rods at doors up to 90 inches (2286 mm) in height. For doors over 90 inches (2286 mm) in height increase top rods by 6 inches (152 mm) for each additional 6 inches (152 mm) of door height. Provide dust-proof strikes at each bottom flush bolt.

2.06 CYLINDRICAL LOCKS – GRADE 2

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Schlage AL series.
2. Acceptable Manufacturers and Products: Best 73KC series, Sargent 7-Line.

B. Requirements

1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 2, and UL Listed for 3-hour fire doors.
2. Cylinders: Refer to “KEYING” article, herein.
3. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2 inch latch throw. Provide proper latch throw for UL listing at pairs.
4. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
5. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
7. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.
 - a. Lever Design: Schlage Rhodes.
 - b. Tactile Warning (Knurling): Where required by authority having jurisdiction. Provide on levers on exterior (secure side) of doors serving rooms considered to be hazardous.

2.07 EXIT DEVICES – BAR TYPE

A. Manufacturer and Product:

1. Scheduled Manufacturer: Von Duprin 55/88 series.
2. Acceptable Manufacturers and Products: Corbin-Russwin ED7000/ED3000 series, Sargent 90 series.

B. Requirements:

1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
2. Cylinders: Refer to “KEYING” article, herein.

3. Provide bar type exit devices, cast or forged of brass, bronze, or stainless steel, plated to standard architectural finishes to match balance of the door hardware.
4. Latch Bolt Throw: 3/4 inch (19 mm) for rim and mortise devices, 5/8 inch (16 mm) for surface and concealed vertical rod devices.
5. Mechanism Case: One piece without cover plate. Mount flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
6. Provide UL labeled fire exit devices for fire rated openings.
7. Provide manufacturer's standard strikes.
8. Provide exit devices cut to door width and height. Locate exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
9. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
10. Provide electrified options as scheduled in the hardware sets.
11. Furnish all necessary wood door kits and cover plates, for proper installation of exit device.
12. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.
 - a. Tactile Warning (Knurling): Where required by authority having jurisdiction. Provide on levers on exterior (secure side) of doors serving rooms considered to be hazardous.

2.08 ELECTRIC STRIKES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Von Duprin 6000 Series.
2. Acceptable Manufacturers and Products: Folger Adam 300 Series, HES 1006 Series.

B. Requirements:

1. Provide electric strikes designed for use with type of locks shown at each opening.
2. Provide electric strikes UL Listed as burglary-resistant.
3. Where required, provide electric strikes UL Listed for fire doors and frames.
4. Provide transformers and rectifiers for each strike as required. Verify voltage with electrical contractor.

2.09 POWER SUPPLIES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Schlage/Von Duprin PS900 series.
2. Acceptable Manufacturers and Products: Precision ELR series, Securitron BPS series, Security Door Controls 600 series.

B. Requirements:

1. Provide power supplies approved by manufacturer of supplied electrified hardware.
2. Provide appropriate quantity of power supplies necessary for proper operation of electrified locking components as recommended by manufacturer of electrified locking components with consideration for each electrified component using power supply,

location of power supply, and approved wiring diagrams. Locate power supplies as directed by Architect.

3. Provide regulated and filtered 24 VDC power supply, and UL class 2 listed.
4. Provide power supplies with the following features:
 - a. 12/24 VDC Output, field selectable.
 - b. Class 2 Rated power limited output.
 - c. Universal 120-240 VAC input.
 - d. Low voltage DC, regulated and filtered.
 - e. Polarized connector for distribution boards.
 - f. Fused primary input.
 - g. AC input and DC output monitoring circuit w/LED indicators.
 - h. Cover mounted AC Input indication.
 - i. Tested and certified to meet UL294.
 - j. NEMA 1 enclosure.
 - k. Hinged cover w/lock down screws.
 - l. High voltage protective cover.

2.10 CYLINDERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Schlage Everest 29 S.
2. Acceptable Manufacturers and Products: Best Preferred Patented, Sargent DG1.

B. Requirements:

1. Provide cylinders/cores, from the same manufacturer of locksets, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.
2. Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.
 - a. Conventional Patented Open: cylinder with interchangeable core with open keyway.
3. Patent Protection: Cylinders/cores requiring use of restricted, patented keys, patent-protected.
4. Nickel silver bottom pins.

C. Construction Keying:

1. Replaceable Construction Cores.
 - a. Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
 - 1) 3 construction control keys
 - 2) 12 construction change (day) keys.
 - b. Owner or Owner's Representative will replace temporary construction cores with permanent cores.

2.11 KEYING

- A. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.

B. Requirements:

1. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
 - a. Master Keying system as directed by the Owner.
2. Forward biting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
3. Provide keys with the following features:
 - a. Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
 - b. Patent Protection: Keys and blanks protected by one or more utility patent(s).
4. Identification:
 - a. Mark permanent cylinders/cores and keys with applicable blind code per DHI publication "Keying Systems and Nomenclature" for identification. Do not provide blind code marks with actual key cuts.
 - b. Identification stamping provisions must be approved by the Architect and Owner.
 - c. Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
 - d. Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
 - e. Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
5. Quantity: Furnish in the following quantities.
 - a. Change (Day) Keys: 3 per cylinder/core.
 - b. Permanent Control Keys: 3.
 - c. Master Keys: 6.

2.12 KEY CONTROL SYSTEM

A. Manufacturers:

1. Scheduled Manufacturer: Telkee.
2. Acceptable Manufacturers: HPC, Lund.

B. Requirements:

1. Provide key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of number of locks required for Project.
 - a. Provide complete cross index system set up by hardware supplier, and place keys on markers and hooks in cabinet as determined by final key schedule.
 - b. Provide hinged-panel type cabinet for wall mounting.

2.13 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: LCN 4050 Series.
2. Acceptable Manufacturers and Products: Norton 7500 Series, Sargent 351 Series.

B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with cast aluminum cylinder.
3. Closer Body: 1-1/2 inch (38 mm) diameter with 11/16 inch (17 mm) diameter heat-treated pinion journal and full complement bearings.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and all weather requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and back check.
7. Pressure Relief Valve (PRV) Technology: Not permitted.
8. Provide stick on templates, special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.14 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: LCN 1450 Series.
2. Acceptable Manufacturers and Products: Norton 8000 Series, Sargent 1331 Series.

B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory.
2. Provide door closers with fully hydraulic, full rack and pinion action with cast aluminum cylinder.
3. Closer Body: 1-3/8 inch (35 mm) diameter with 5/8 inch (16 mm) diameter pinion journal diameter heat-treated pinion journal and full complement bearings.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Pressure Relief Valve (PRV) Technology: Not permitted.
7. Provide stick on and special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.15 ELECTRO-HYDRAULIC AUTOMATIC OPERATORS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: LCN 4600 Series.
2. Acceptable Manufacturers and Products: Norton 6000 Series, Besam Power Swing.

B. Requirements:

1. Provide low energy automatic operator units with hydraulic closer complying with ANSI/BHMA A156.19.
2. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
3. Provide units with conventional door closer opening and closing forces unless power operator motor is activated. Provide door closer assembly with adjustable spring size, back-check, and opening and closing speed adjustment valves to control door.
4. Provide units with on/off switch for manual operation, motor start up delay, vestibule interface delay, electric lock delay, and door hold open delay.
5. Provide units with conventional door closer opening and closing forces unless power operator motor is activated. Provide door closer assembly with adjustable spring size, back-check valve, sweep valve, latch valve to control door.
6. Provide drop plates, brackets, or adapters for arms as required for details.
7. Provide hard-wired actuator switches for operation as specified.
8. Provide weather-resistant actuators at exterior applications.
9. Provide key switches with LED's, recommended and approved by manufacturer of automatic operator as required for function described in operation description of hardware group below. Cylinders: Refer to "KEYING" article, herein.
10. Provide complete assemblies of controls, switches, power supplies, relays, and parts/material recommended and approved by manufacturer of automatic operator for each individual leaf. Actuators control both doors simultaneously at pairs. Sequence operation of exterior and vestibule doors with automatic operators to allow ingress or egress through both sets of openings as directed by Architect. Locate actuators, key switches, and other controls as directed by Architect.
11. Provide units with vestibule inputs that allow sequencing operation of two units, and SPDT relay for interfacing with latching or locking devices.

2.16 DOOR TRIM

A. Manufacturers:

1. Scheduled Manufacturer: Ives.
2. Acceptable Manufacturers: Burns, Rockwood.

B. Requirements:

1. Provide push plates 6 inches (102 mm) wide by 16 inches (406 mm) high by 0.050 inch (1 mm) thick and beveled 4 edges. Where width of door stile prevents use of 4 inches (102 mm) wide plate, adjust width to fit.
2. Provide pull plates 4 inches (102 mm) wide by 16 inches (406 mm) high by 0.050 inch (1 mm) thick, beveled 4 edges, and prepped for pull. Where width of door stile prevents use of 4 inches (102 mm) wide plate, adjust width to fit.

2.17 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer: Ives.
2. Acceptable Manufacturers: Burns, Rockwood.

B. Requirements:

1. Provide kick plates, mop plates, and armor plates minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Sizes of plates:
 - a. Kick Plates: 10 inches (254 mm) high by 2 inches (51 mm) less width of door on single doors, 1 inch (25 mm) less width of door on pairs

2.18 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers: Glynn-Johnson.
2. Acceptable Manufacturers: Rixson, ABH.

B. Requirements:

1. Provide heavy duty concealed mounted overhead stop or holder as specified for exterior and interior vestibule single acting doors.
2. Provide heavy duty concealed mounted overhead stop or holder as specified for double acting doors.
3. Provide heavy or medium duty and concealed or surface mounted overhead stop or holder for interior doors as specified. Provide medium duty surface mounted overhead stop for interior doors and at any door that swings more than 140 degrees before striking wall, open against equipment, casework, sidelights, and where conditions do not allow wall stop or floor stop presents tripping hazard.
4. Where overhead holders are specified provide friction type at doors without closer and positive type at doors with closer.

2.19 DOOR STOPS AND HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer: Ives.
2. Acceptable Manufacturers: Burns, Rockwood.

B. Provide door stops at each door leaf:

1. Provide wall stops wherever possible. Provide convex type where mortise type locks are used and concave type where cylindrical type locks are used.
2. Where a wall stop cannot be used, provide universal floor stops for low or high-rise options.
3. Where wall or floor stop cannot be used, provide medium duty surface mounted overhead stop.

2.20 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

1. Scheduled Manufacturer: Zero International.
2. Acceptable Manufacturers: National Guard, Reese.

B. Requirements:

1. Provide thresholds, weather-stripping (including door sweeps, seals, and astragals) and gasketing systems (including smoke, sound, and light) as specified and per architectural details. Match finish of other items.
2. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
3. Size of thresholds:
 - a. Saddle Thresholds: 1/2 inch (13 mm) high by jamb width by door width
 - b. Bumper Seal Thresholds: 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width
4. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.

2.21 SILENCERS

A. Manufacturers:

1. Scheduled Manufacturer: Ives.
2. Acceptable Manufacturers: Burns, Rockwood.

B. Requirements:

1. Provide "push-in" type silencers for hollow metal or wood frames.
2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
3. Omit where gasketing is specified.

2.22 FINISHES

- A. Finish: Provide finishes as specified in hardware sets. Exterior doors and Interior full-glass doors dark bronze and interior wood doors satin chromium.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.

- B. Field verify existing doors and frames receiving new hardware and existing conditions receiving new openings. Verify that new hardware is compatible with existing door and frame preparation and existing conditions.
- C. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Where on-site modification of doors and frames is required:
 - 1. Carefully remove existing door hardware and components being reused. Clean, protect, tag, and store in accordance with storage and handling requirements specified herein.
 - 2. Field modify and prepare existing door and frame for new hardware being installed.
 - 3. When modifications are exposed to view, use concealed fasteners, when possible.
 - 4. Prepare hardware locations and reinstall in accordance with installation requirements for new door hardware and with:
 - a. Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.
 - b. Wood Doors: DHI WDHS.5 "Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors."
 - c. Doors in rated assemblies: NFPA 80 for restrictions on on-site door hardware preparation.

3.03 INSTALLATION

- A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
 - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 - 2. Custom Steel Doors and Frames: HMMA 831.
 - 3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
- C. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- D. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
- E. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- F. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- G. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated or one hinge for every 30

- inches (750 mm) of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
- H. Lock Cylinders: Install construction cores to secure building and areas during construction period.
 - 1. Replace construction cores with permanent cores as indicated in keying section.
 - I. Wiring: Coordinate with Division 26, ELECTRICAL sections for:
 - 1. Conduit, junction boxes and wire pulls.
 - 2. Connections to and from power supplies to electrified hardware.
 - 3. Connections to fire/smoke alarm system and smoke evacuation system.
 - 4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
 - 5. Testing and labeling wires with Architect's opening number.
 - J. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.
 - K. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.
 - L. Closer/Holders: Mount closer/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
 - M. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.
 - N. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
 - O. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.
 - P. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
 - Q. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
 - R. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.04 FIELD QUALITY CONTROL

- A. Engage qualified manufacturer trained representative to perform inspections and to prepare inspection reports.
 - 1. Representative will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

3.05 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 - 1. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
 - 2. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
- B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, Installer's Architectural Hardware Consultant must examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.06 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.07 DOOR HARDWARE SCHEDULE

- A. Hardware items are referenced in the following hardware. Refer to the above-specifications for special features, options, cylinders/keying, and other requirements.
- B. Hardware Sets:

Hardware Group No. 01

For use on mark/door #(s):

A121 A122

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	AL10S NEP	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

PANTHEON THEATRE
VINCENNES, INDIANA

PROJECT #15-02
JANUARY 2019

Hardware Group No. 02

For use on mark/door #(s):
A204

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	640	IVE
1	EA	PASSAGE SET	AL10S NEP	643e	SCH
1	EA	OH STOP	450S	613	GLY

Notes:

1) Field verify existing conditions. Verify/coordinate preps on existing doors and frames. Provide field modifications and/or fillers to existing doors and frames as necessary to accept new specified hardware.

Hardware Group No. 03

For use on mark/door #(s):
A111 A115

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1HW 4.5 X 4.5	640	IVE
1	EA	PUSH PLATE	8200 6" X 16"	613	IVE
1	EA	PULL PLATE	8303 10" 4" X 16" F	613	IVE
1	EA	SURFACE CLOSER	4050 RW/PA	695	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	613	IVE
1	EA	WALL STOP	WS406/407CCV	613	IVE
3	EA	SILENCER	SR64	GRY	IVE

PANTHEON THEATRE
VINCENNES, INDIANA

PROJECT #15-02
JANUARY 2019

Hardware Group No. 04

For use on mark/door #(s):
A125

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
6	EA	HINGE	5BB1HW 4.5 X 4.5	640	IVE
2	EA	PUSH PLATE	8200 6" X 16"	613	IVE
2	EA	SURFACE CLOSER	4050 SCUSH	695	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	613	IVE
2	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 05

For use on mark/door #(s):
A302

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1HW 4.5 X 4.5	640	IVE
1	EA	PRIVACY LOCK	AL40S RHO	643e	SCH
1	EA	SURFACE CLOSER	1450 RW/PA FC	695	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	613	IVE
1	EA	WALL STOP	WS406/407CCV	613	IVE
1	EA	GASKETING	488S	BK	ZER

Hardware Group No. 06

For use on mark/door #(s):
A102 A106 A208

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	640	IVE
1	EA	ENTRANCE LOCK	AL53BDC NEP	643e	SCH
1	EA	SFIC EVEREST CORE	80-037	606	SCH
1	EA	WALL STOP	WS406/407CCV	613	IVE
3	EA	SILENCER	SR64	GRY	IVE

PANTHEON THEATRE
VINCENNES, INDIANA

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Hardware Group No. 07

For use on mark/door #(s):

A109 A110 A114 A118 A119

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ENTRANCE LOCK	AL53BDC NEP	626	SCH
1	EA	SFIC EVEREST CORE	80-037	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE

Hardware Group No. 08

For use on mark/door #(s):

A206 A207

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	640	IVE
1	EA	ENTRANCE LOCK	AL53BDC NEP	643e	SCH
1	EA	SFIC EVEREST CORE	80-037	606	SCH
1	EA	WALL STOP	WS406/407CCV	613	IVE

Notes:

1) Field verify existing conditions. Verify/coordinate preps on existing doors and frames. Provide field modifications and/or fillers to existing doors and frames as necessary to accept new specified hardware.

Hardware Group No. 09

For use on mark/door #(s):

A105

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	640	IVE
1	EA	ENTRANCE LOCK	AL53BDC NEP	643e	SCH
1	EA	SFIC EVEREST CORE	80-037	606	SCH
1	EA	OH STOP	410S	613	GLY
3	EA	SILENCER	SR64	GRY	IVE

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Hardware Group No. 10

For use on mark/door #(s):

A113 A117 A120

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ENTRANCE LOCK	AL53BDC NEP	626	SCH
1	EA	SFIC EVEREST CORE	80-037	626	SCH
1	EA	OH STOP	410S	630	GLY

Hardware Group No. 11

For use on mark/door #(s):

A103 A108

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	AL70BDC NEP	626	SCH
1	EA	SFIC EVEREST CORE	80-037	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 12

For use on mark/door #(s):

A112

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
2	EA	MANUAL FLUSH BOLT	FB458	626	IVE
1	EA	DUST PROOF STRIKE	DP2	626	IVE
1	EA	CLASSROOM LOCK	AL70BDC NEP	626	SCH
1	EA	SFIC EVEREST CORE	80-037	626	SCH
1	EA	OH STOP	410S	630	GLY
1	EA	SURFACE CLOSER	1450 SCUSH FC	689	LCN
1	EA	PA MOUNTING PLATE	1450-18PA	689	LCN
1	EA	CUSH SHOE SUPPORT	1450-30	689	LCN
1	EA	BLADE STOP SPACER	1450-61	689	LCN

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Hardware Group No. 13

For use on mark/door #(s):

A001 A002 A107

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	640	IVE
1	EA	STOREROOM LOCK	AL80BDC NEP	643e	SCH
1	EA	SFIC EVEREST CORE	80-037	606	SCH
1	EA	SURFACE CLOSER	1450 RW/PA FC	695	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	613	IVE
1	EA	WALL STOP	WS406/407CCV	613	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 14

For use on mark/door #(s):

A121A A129 A304

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	640	IVE
1	EA	STOREROOM LOCK	AL80BDC NEP	643e	SCH
1	EA	SFIC EVEREST CORE	80-037	606	SCH
1	EA	SURFACE CLOSER	1450 RW/PA FC	695	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	613	IVE
1	EA	WALL STOP	WS406/407CCV	613	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 15

For use on mark/door #(s):

A116 A127

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	640	IVE
1	EA	STOREROOM LOCK	AL80BDC NEP	643e	SCH
1	EA	SFIC EVEREST CORE	80-037	606	SCH
1	EA	SURFACE CLOSER	1450 SCUSH FC	695	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	613	IVE
3	EA	SILENCER	SR64	GRY	IVE

PANTHEON THEATRE
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Hardware Group No. 16

For use on mark/door #(s):
A203

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	640	IVE
1	EA	STOREROOM LOCK	AL80BDC NEP	643e	SCH
1	EA	SFIC EVEREST CORE	80-037	606	SCH
1	EA	OH STOP	450S	613	GLY
1	EA	SURFACE CLOSER	1450 RW/PA FC	695	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	613	IVE

Notes:

1) Field verify existing conditions. Verify/coordinate preps on existing doors and frames. Provide field modifications and/or fillers to existing doors and frames as necessary to accept new specified hardware.

Hardware Group No. 17

For use on mark/door #(s):
A124

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
6	EA	HINGE	5BB1 4.5 X 4.5 NRP	640	IVE
2	EA	MANUAL FLUSH BOLT	FB358	613	IVE
1	EA	DUST PROOF STRIKE	DP2	613	IVE
1	EA	STOREROOM LOCK	AL80BDC NEP	643e	SCH
1	EA	SFIC EVEREST CORE	80-037	606	SCH
2	EA	OH STOP	410S	613	GLY
2	EA	SILENCER	SR64	GRY	IVE

PANTHEON THEATRE
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Hardware Group No. 18

For use on mark/door #(s):
A126

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	640	IVE
1	EA	STOREROOM LOCK	AL80BDC NEP	643e	SCH
1	EA	SFIC EVEREST CORE	80-037	606	SCH
1	EA	SURFACE CLOSER	1450 SCUSH FC	695	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	613	IVE
1	EA	GASKETING	488S	BK	ZER

Hardware Group No. 19

For use on mark/door #(s):
A209

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1HW 4.5 X 4.5	640	IVE
1	EA	PANIC HARDWARE	88-L-BE-17	643E	VON
1	EA	SURFACE CLOSER	4050 RW/PA	695	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	613	IVE
1	EA	WALL STOP	WS406/407CCV	613	IVE
1	EA	GASKETING	488S	BK	ZER

Hardware Group No. 20

For use on mark/door #(s):
A205

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	640	IVE
1	EA	FIRE EXIT HARDWARE	88-L-BE-F-17	643E	VON
1	EA	SURFACE CLOSER	4050 RW/PA	695	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	613	IVE
1	EA	WALL STOP	WS406/407CCV	613	IVE

Notes:

1) Field verify existing conditions. Verify/coordinate preps on existing doors and frames. Provide field modifications and/or fillers to existing doors and frames as necessary to accept new specified hardware.

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Hardware Group No. 21

For use on mark/door #(s):
A202

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1HW 4.5 X 4.5	640	IVE
1	EA	FIRE EXIT HARDWARE	88-L-BE-F-17	643E	VON
1	EA	SURFACE CLOSER	4050 SCUSH	695	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	613	IVE
1	EA	GASKETING	488S	BK	ZER

Hardware Group No. 22

For use on mark/door #(s):
A128

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
6	EA	HINGE	5BB1HW 5 X 4.5	640	IVE
2	EA	FIRE EXIT HARDWARE	8847-L-BE-F-17	643E	VON
2	EA	SURFACE CLOSER	4050 EDA	695	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	613	IVE
2	EA	WALL STOP	WS406/407CCV	613	IVE
1	EA	GASKETING	488S	BK	ZER
1	EA	WEATHERSTRIPPING	8217S	BK	ZER

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Hardware Group No. 23

For use on mark/door #(s):
A123

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1HW 4.5 X 4.5	640	IVE
1	EA	DUMMY PUSH BAR	88DU-DT-880	643E	VON
1	EA	SURFACE CLOSER	4050 SCUSH	695	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	613	IVE
3	EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 24

For use on mark/door #(s):
103A

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
1	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	613	IVE
1	EA	PANIC HARDWARE	88-NL	643E	VON
1	EA	SFIC EVEREST CORE	80-037	606	SCH
1	EA	SFIC RIM CYLINDER	80-159	613	SCH
1	EA	OH STOP	100S	613	GLY
1	EA	SURFACE CLOSER	4050 EDA	695	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	613	IVE
1	EA	RAIN DRIP	142D	D	ZER
1	EA	GASKETING	429D	D	ZER
1	EA	DOOR SWEEP	8198D	D	ZER
1	EA	THRESHOLD	625A	A	ZER

Notes:

1) Door requires special undercut for ADA type thresholds.

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Hardware Group No. 25

For use on mark/door #(s):
101A

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	613	IVE
2	EA	PANIC HARDWARE	5547-DT	643E	VON
2	EA	OH STOP	100S	613	GLY
2	EA	SURFACE CLOSER	4050 EDA	695	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	613	IVE
1	EA	RAIN DRIP	142D	D	ZER
1	EA	GASKETING	429D	D	ZER
1	EA	MEETING STILE	8193D	D	ZER
2	EA	DOOR SWEEP	8198D	D	ZER
1	EA	THRESHOLD	625A	A	ZER

Notes:

1) Door requires special undercut for ADA type thresholds.

Hardware Group No. 26

For use on mark/door #(s):
105A

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	613	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	695	VON
2	EA	PANIC HARDWARE	55-DT	643E	VON
1	EA	SFIC EVEREST CORE	80-037	606	SCH
1	EA	SFIC MORTISE CYL.	80-110	613	SCH
2	EA	OH STOP	100S	613	GLY
2	EA	SURFACE CLOSER	4050 TJ	695	LCN
		- MOUNT FLUSH CEILING			
2	EA	MOUNTING PLATE	4050-18G	695	LCN
2	EA	DOOR SWEEP	8198D	D	ZER
1	EA	THRESHOLD	625A	A	ZER

Notes:

- 1) Weatherstripping provided by door/frame mfg.
- 2) Door requires special undercut for ADA type thresholds.

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Hardware Group No. 27

For use on mark/door #(s):
106A

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
6	EA	HINGE	5BB1HW 5 X 4.5 NRP	613	IVE
1	EA	REMOVABLE MULLION	KR4954 STAB	695	VON
1	EA	PANIC HARDWARE	88-DT	643E	VON
1	EA	PANIC HARDWARE	88-NL	643E	VON
2	EA	SFIC EVEREST CORE	80-037	606	SCH
1	EA	SFIC MORTISE CYL.	80-110	613	SCH
1	EA	SFIC RIM CYLINDER	80-159	613	SCH
2	EA	OH STOP	100S	613	GLY
2	EA	SURFACE CLOSER	4050 HEDA	695	LCN
2	EA	PA MOUNTING PLATE	4050-18PA	695	LCN
2	EA	BLADE STOP SPACER	4050-61	695	LCN
2	EA	DOOR SWEEP	8198D	D	ZER
1	EA	THRESHOLD	625A	A	ZER

Notes:

- 1) Weatherstripping provided by door/frame mfg.
- 2) Door requires special undercut for ADA type thresholds.

Hardware Group No. 28

For use on mark/door #(s):
102A

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	613	IVE
1	EA	PANIC HARDWARE	55-NL-110MD	643E	VON
1	EA	SFIC EVEREST CORE	80-037	606	SCH
1	EA	SFIC RIM CYLINDER	80-159	613	SCH
1	EA	SURFACE CLOSER	4050 EDA	695	LCN
1	EA	PA MOUNTING PLATE	4050-18PA	695	LCN
1	EA	BLADE STOP SPACER	4050-61	695	LCN
1	EA	WALL STOP	WS406/407CVX	613	IVE
1	EA	DOOR SWEEP	8198D	D	ZER
1	EA	THRESHOLD	625A	A	ZER

Notes:

- 1) Weatherstripping provided by door/frame mfg.
- 2) Door requires special undercut for ADA type thresholds.

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Hardware Group No. 29

For use on mark/door #(s):
105B

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	613	IVE
1	EA	POWER TRANSFER	EPT10 CON	695	VON
1	EA	REMOVABLE MULLION	KR4954 STAB	695	VON
1	EA	PANIC HARDWARE	55-DT	643E	VON
1	EA	ELEC PANIC HARDWARE	RX-55-NL-110MD	643E	VON
2	EA	SFIC EVEREST CORE	80-037	606	SCH
1	EA	SFIC MORTISE CYL.	80-110	613	SCH
1	EA	SFIC RIM CYLINDER	80-159	613	SCH
1	EA	ELECTRIC STRIKE	6300 FSE	630	VON
1	EA	OH STOP	100S	613	GLY
1	EA	OH STOP	100SE	613	GLY
			- MOUNT LEAF W/AUTO OPERATOR		
1	EA	SURFACE CLOSER	4050 TJ	695	LCN
			- MOUNT FLUSH CEILING		
1	EA	SURF. AUTO OPERATOR	4642 WMS	695	LCN
			- MOUNT FLUSH CEILING		
1	EA	MOUNTING PLATE	4050-18G	695	LCN
1	EA	WEATHER RING	8310-801	PLA	LCN
2	EA	ACTUATOR, WALL MOUNT	8310-853T	630	LCN
2	EA	SURFACE MOUNT BOX	8310-867S	689	LCN
2	EA	DOOR SWEEP	8198D	D	ZER
1	EA	THRESHOLD	625A	A	ZER
1	EA	WIRE HARNESS	CON-6W		SCH
			- WIRE EXTENSION FROM ELECTRIC STRIKE TO POWER SUPPLY		
1	EA	POWER SUPPLY	PS902 900-4RL 900-BBK		VON
			- COORDINATE POWER SUPPLY REQUIREMENTS W/SECURITY PROVIDER ACCESS CONTROL BY OTHERS		

Notes:

- 1) Weatherstripping provided by door/frame mfg.
- 2) Door requires special undercut for ADA type thresholds.

Business Hours - Door normally closed and unlocked. When the panic device latch is dogged down (in the retracted position) the RX switch will enable the exterior actuator button. The interior actuator button is enabled at all times. Pushing either enabled actuator button will cause the automatic operator to momentarily open the door. Free egress at all times.

After Hours - Door normally closed and locked. When the panic device latch is extended the RX switch will disable the exterior actuator button. Presenting a valid credential to the reader will momentarily unlock the electric strike and momentarily enable the exterior actuator button. Pushing the enabled exterior actuator button will cause the automatic operator to momentarily open the door. The interior actuator button will be enabled at all times. Pushing the enabled interior actuator button will momentarily unlock the electric strike and cause the automatic operator to momentarily open the door. Free egress at all times.

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Hardware Group No. 30

For use on mark/door #(s):

E101A E104A

Each To Have:

Qty	Description	Catalog Number	Finish	Mfr
		NO HARDWARE REQUIRED		

Notes:

1) Place in inoperable position. Shall be screwed in place.

Hardware Group No. 31

For use on mark/door #(s):

A101 A201 A301

Each To Have:

Qty	Description	Catalog Number	Finish	Mfr
		HARDWARE BY DOOR MANUFACTURER		

Hardware Group No. 32

For use on mark/door #(s):

A303

Each To Have:

Qty		Description	Catalog Number	Finish	Mfr
1	EA	SFIC EVEREST CORE	80-037	626	SCH
1	EA	SFIC CYLINDER	AS REQUIRED HARDWARE BY DOOR MANUFACTURER	626	SCH

Hardware Group No. 33

For use on mark/door #(s):

A210 A211 A212 A213

Each To Have:

Qty	Description	Catalog Number	Finish	Mfr
		NO HARDWARE REQUIRED		

Notes:

1) Place in inoperable position. Shall be screwed in place.

Door Index

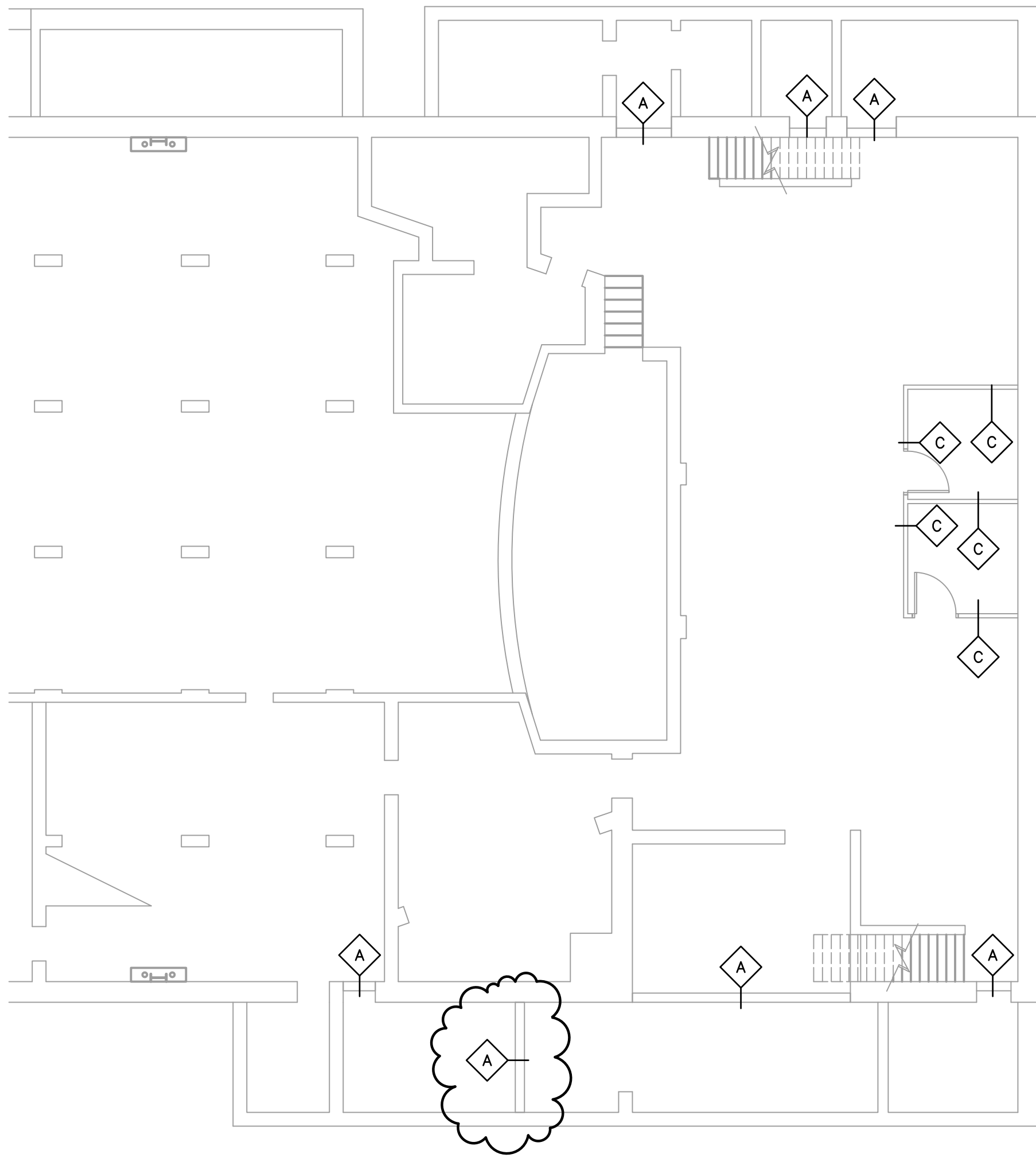
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101A	25

Mark #	HWSet #
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103A	24
105A	26
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106A	27
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A107	13
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A116	15
A117	10

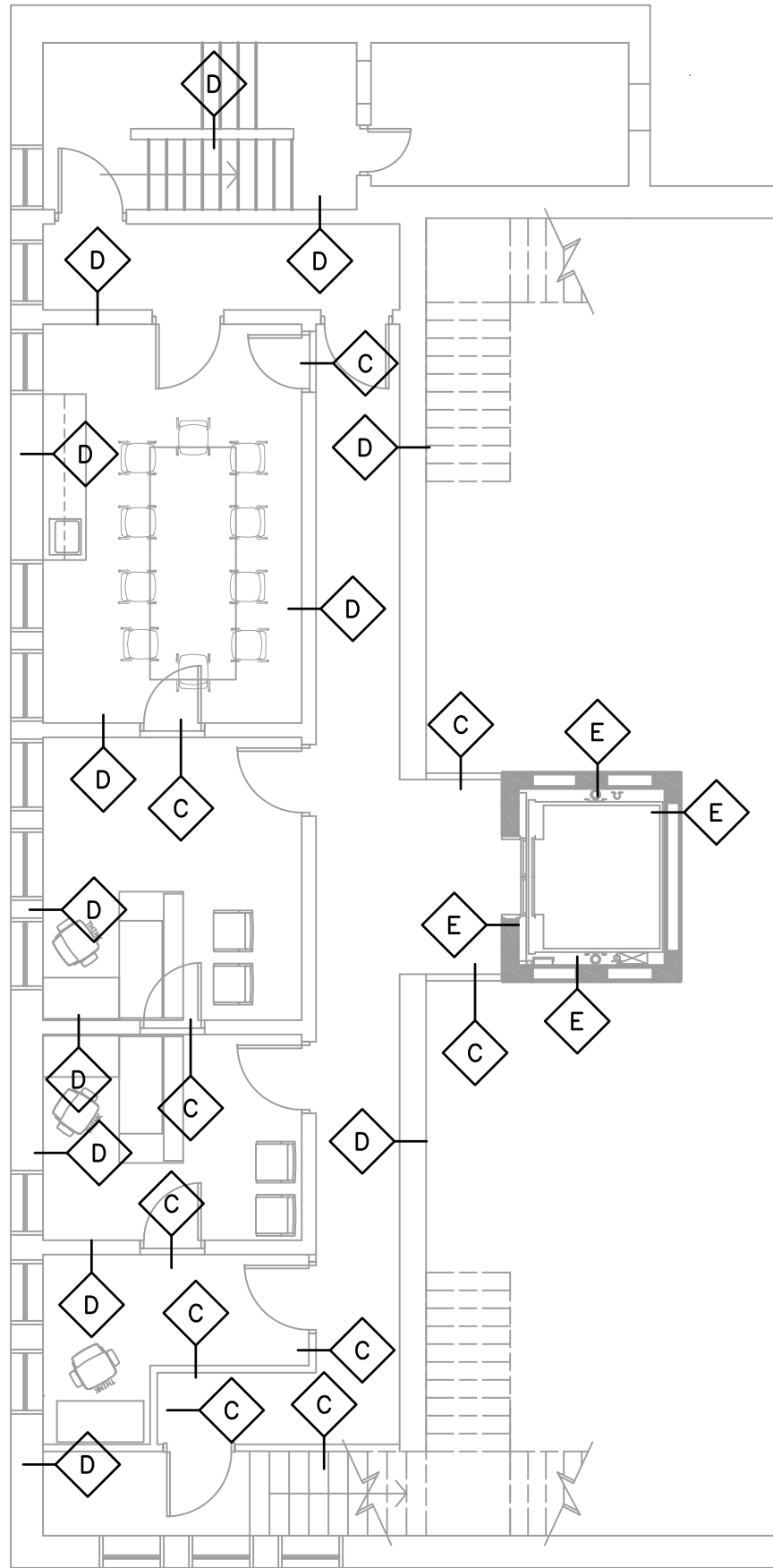
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A119	07
A120	10
A121	01
A121A	14
A122	01
A123	23
A124	17
A125	04
A126	18
A127	15
A128	22
A129	14
A201	31
A202	21
A203	16
A204	02
A205	20
A206	08
A207	08
A208	06
A209	19
A210	33

Mark #	HWSet #
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A212	33
A213	33
A301	31
A302	05
A303	32
A304	14
E101A	30
E104A	30

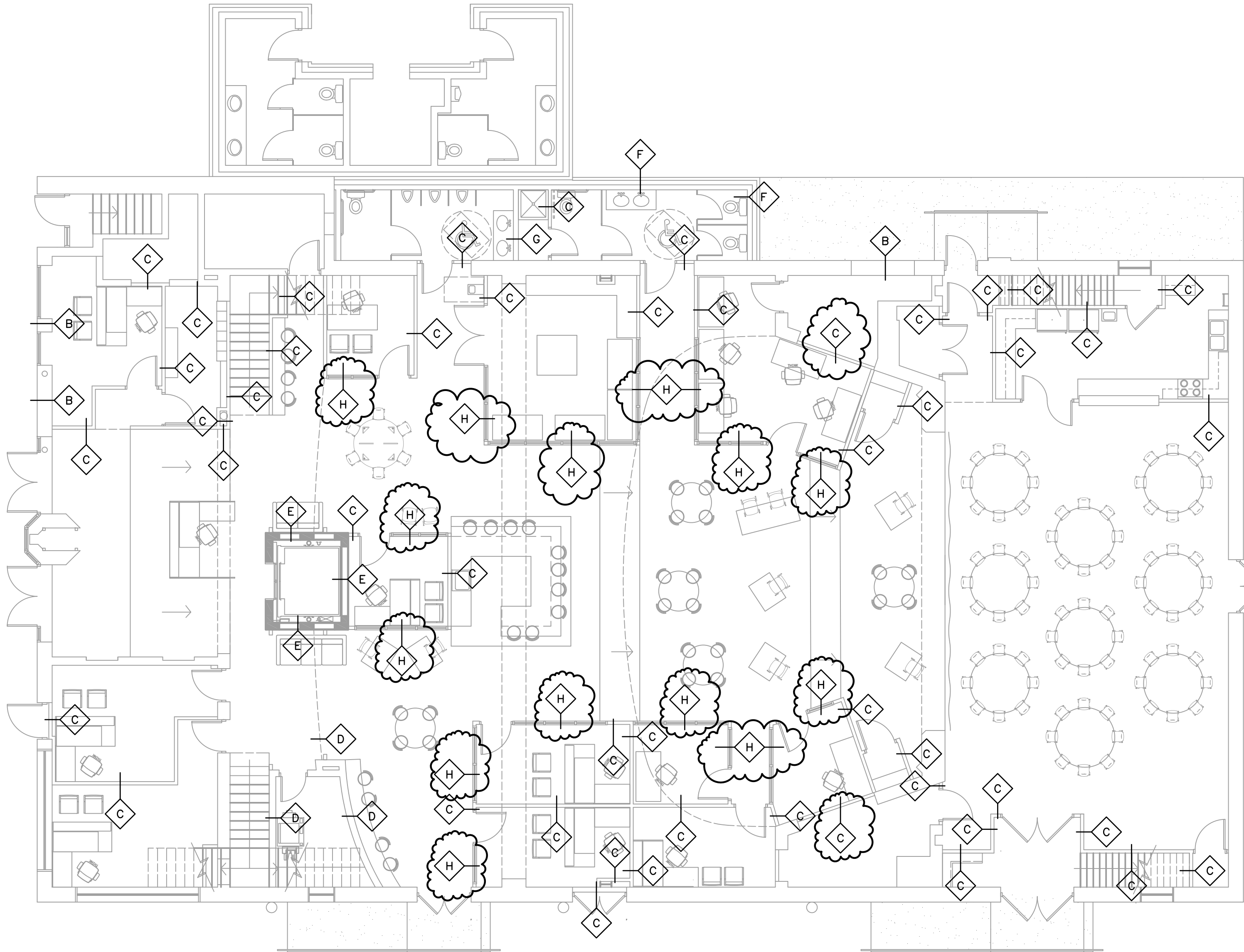
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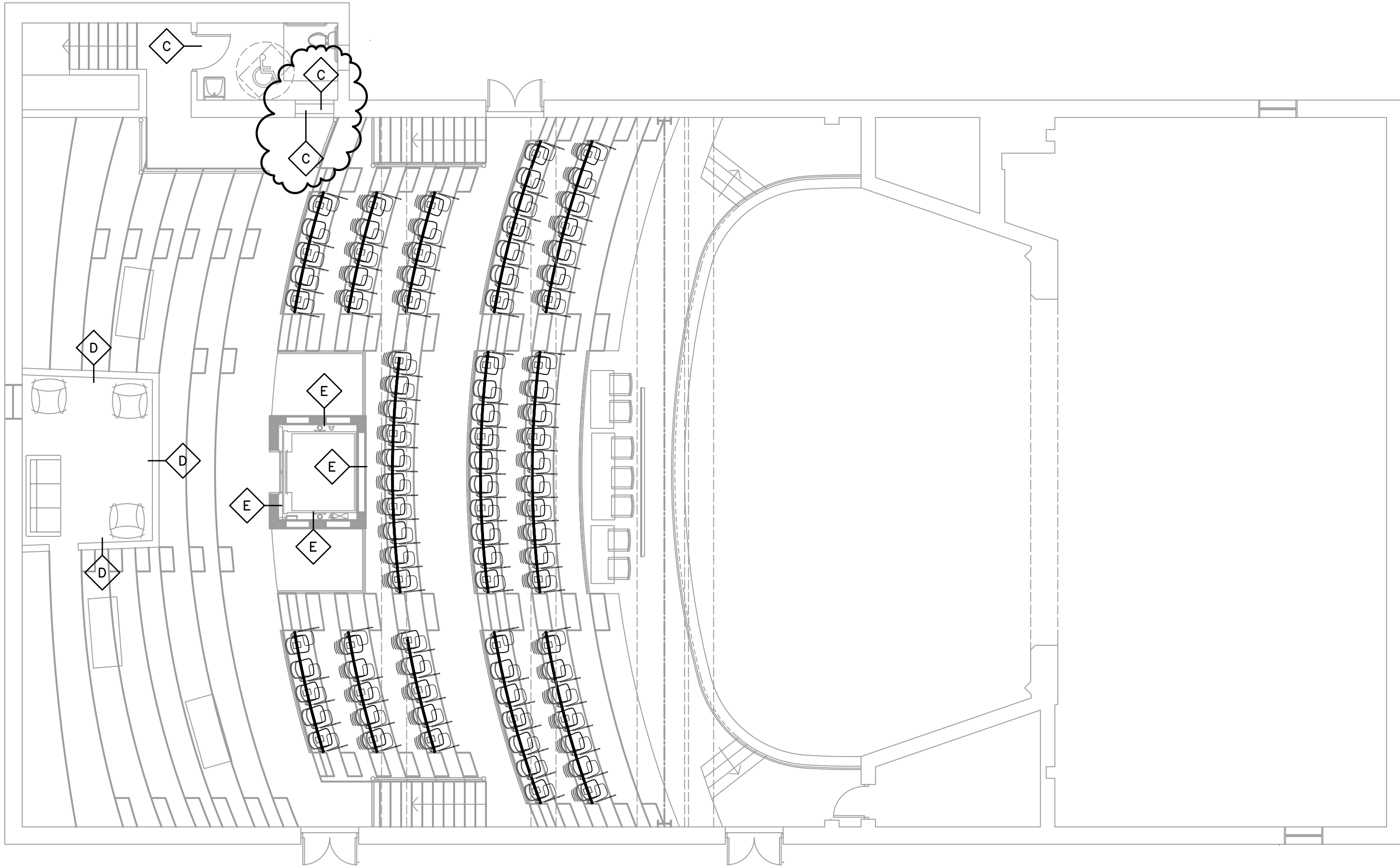
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SCALE: 1/8"=1'-0"



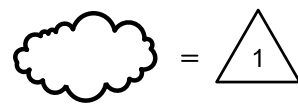
3 SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"



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



4 BALCONY FLOOR PLAN
SCALE: 1/8"=1'-0"

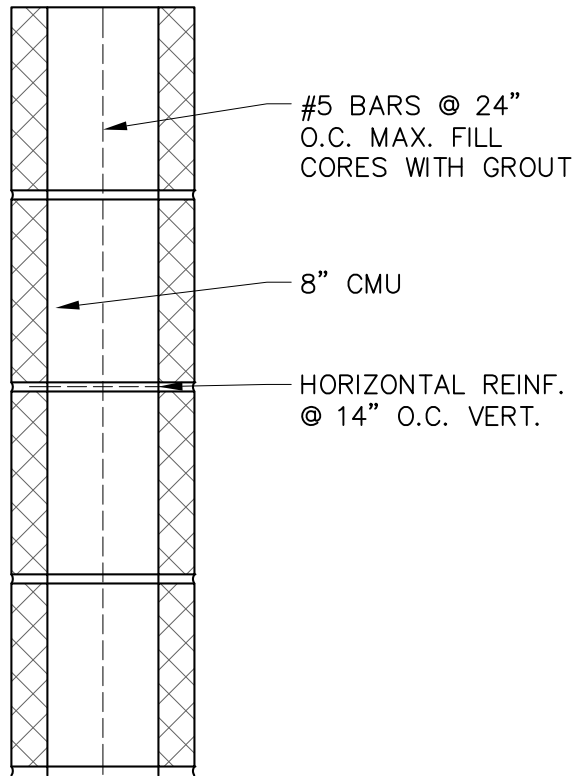


- GENERAL NOTES:**
- G.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
 - INFILL ANY WALL AREAS OF DETERIORATION WITH LIKE MATERIALS.

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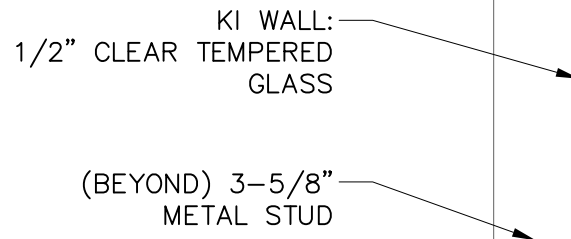
REV	DATE	DESCRIPTION
1	2/8/19	ADDENDUM 1

DRAWN: STAFF
CHECKED: APM



PARTITION TYPE 'A'

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



PARTITION TYPE 'H'

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

PANTHEON BUSINESS THEATER

REFERENCE SHEET A0.6

myszak + palmer
ARCHITECTURE • DEVELOPMENT

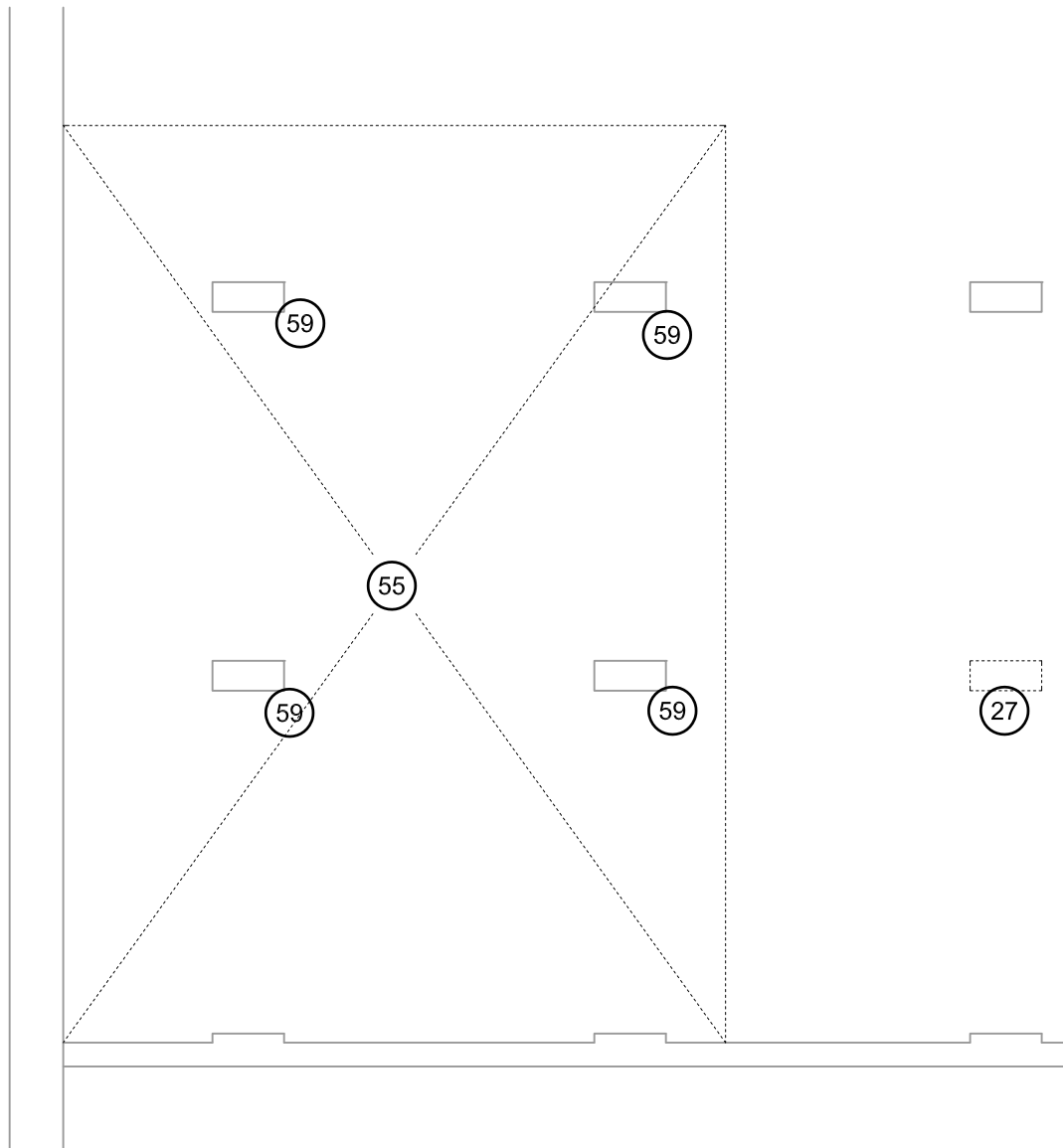
903 Broadway Street
Vincennes, Indiana 47591
Voice: 812.886.0350
Fax: 812.886.0790
web: www.myszakpalmer.com

NEW BUSINESS INCUBATOR FOR:

PANTHEON BUSINESS THEATER

VINCENNES, IN

DATE: 1/08/19
DRAWN: STAFF
CHECKED: APM
PROJECT ID: 15-02



BASEMENT DEMOLITION PLAN

SCALE: 3/16"=1'-0"

PANTHEON BUSINESS THEATER

REFERENCE SHEET D1.0

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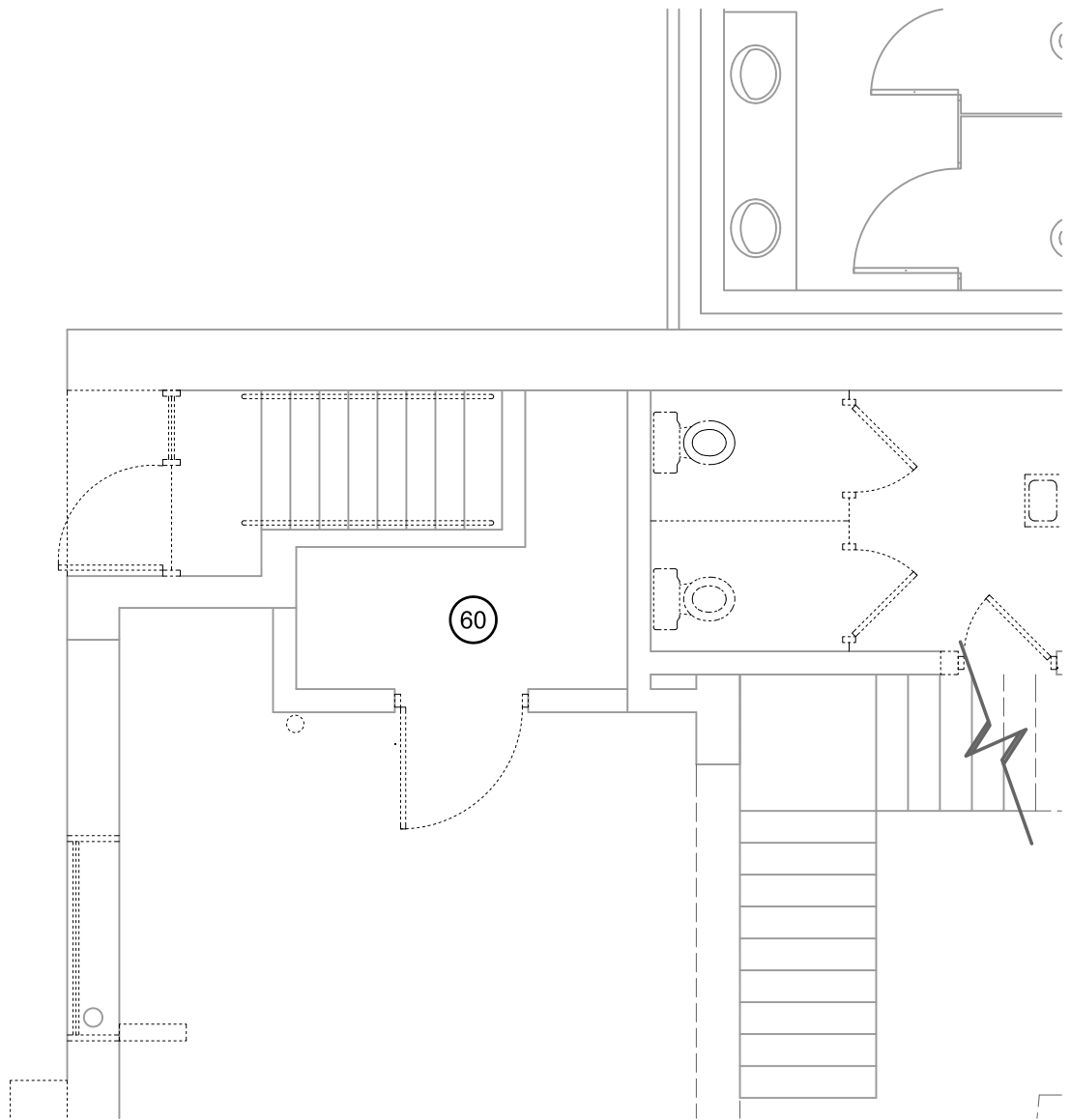
903 Broadway Street
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Voice: 812.886.0350
Fax: 812.886.0790
web: www.myszakpalmer.com

NEW BUSINESS INCUBATOR FOR:

PANTHEON BUSINESS THEATER

VINCENNES, IN

DATE: 1/08/19
DRAWN: STAFF
CHECKED: APM
PROJECT ID: 15-02



NOTE: REMOVE KEYNOTE 45
AND REPLACE WITH KEYNOTE
60

FIRST FLOOR DEMOLITION PLAN

SCALE: 3/16"=1'-0"

PANTHEON BUSINESS THEATER

REFERENCE SHEET D1.1

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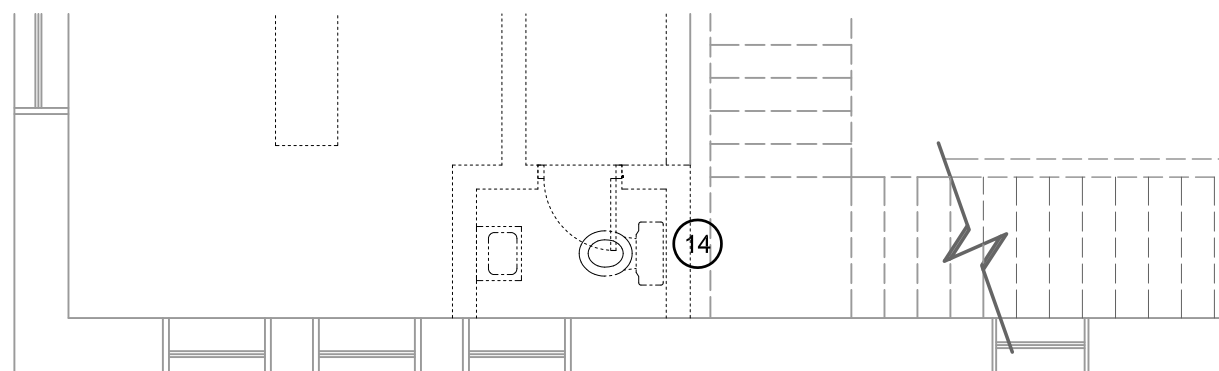
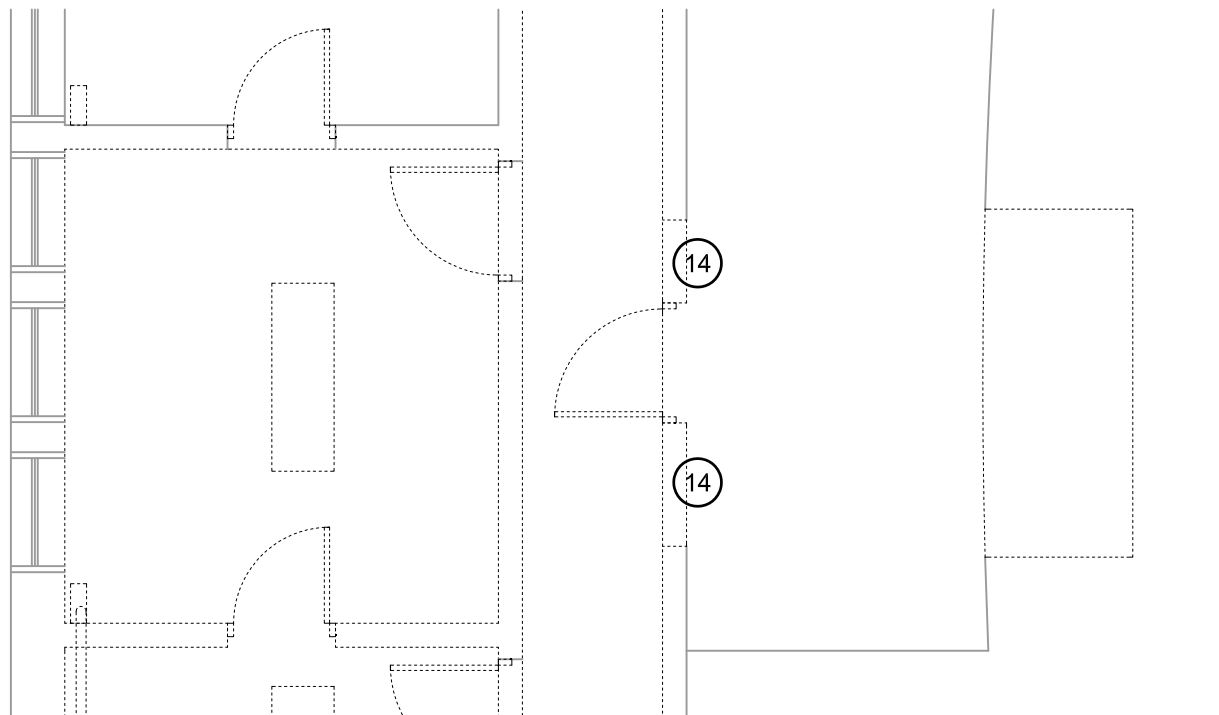
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PROJECT ID: 15-02



NOTE: REMOVE KEYNOTE 5
AND REPLACE WITH KEYNOTE
14

SECOND FLOOR DEMOLITION PLAN

SCALE: 3/16"=1'-0"

PANTHEON BUSINESS THEATER

REFERENCE SHEET D1.2

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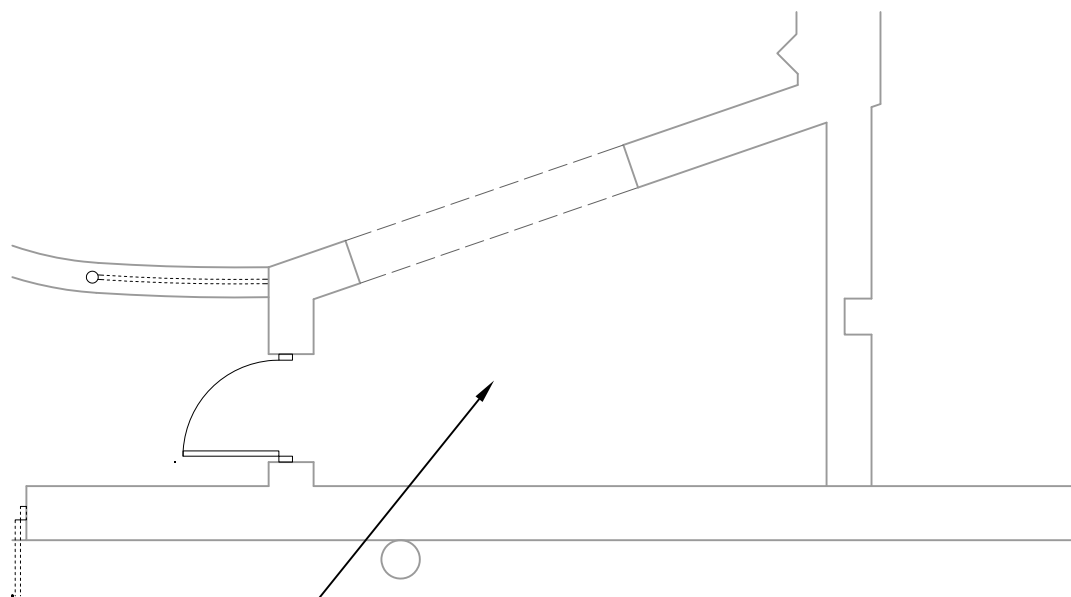
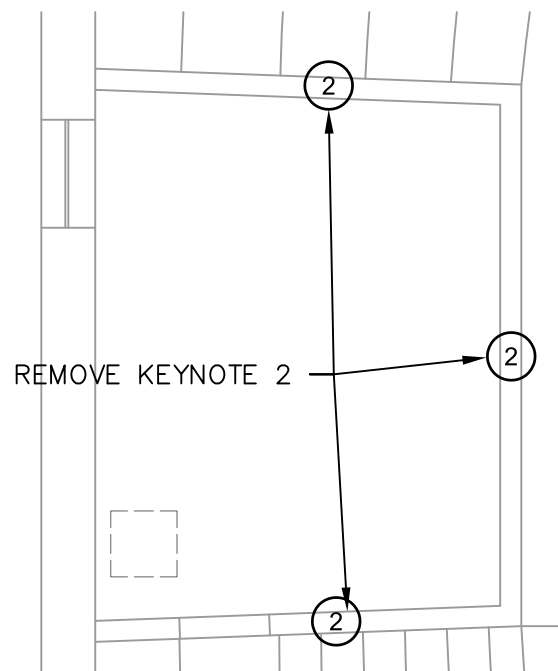
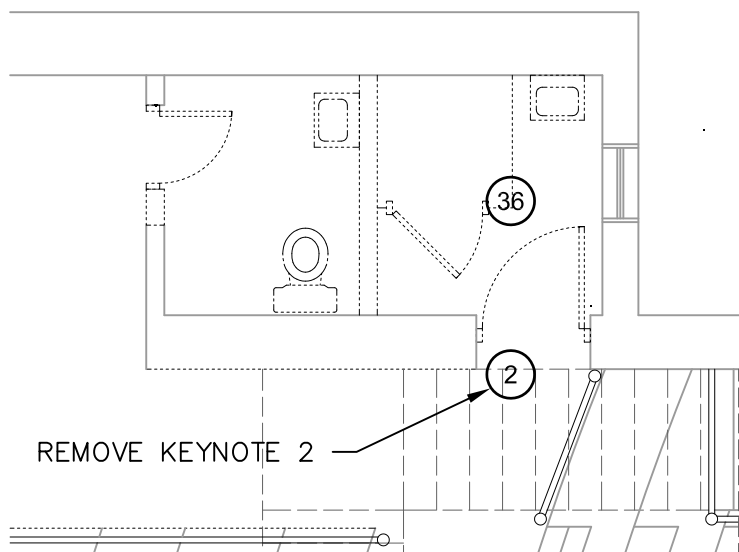
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NEW BUSINESS INCUBATOR FOR:

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VINCENNES, IN

DATE: 1/08/19
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PROJECT ID: 15-02



REMOVE ALL DEBRIS FROM
THIS ROOM. SEAT BACKS TO
REMAIN PROPERTY OF OWNER

THIRD FLOOR DEMOLITION PLAN

SCALE: 3/16"=1'-0"

PANTHEON BUSINESS THEATER

REFERENCE SHEET D1.3

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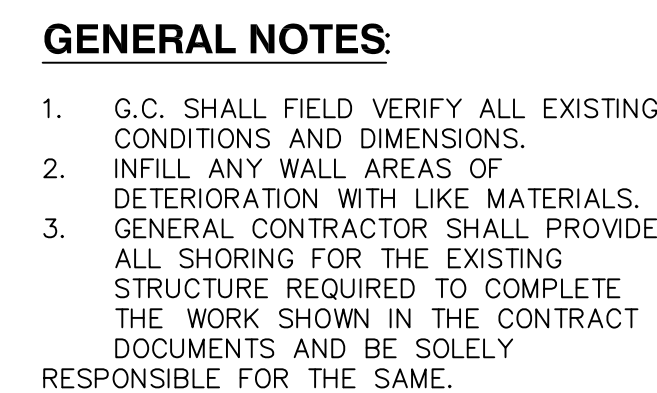
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PROJECT ID: 15-02

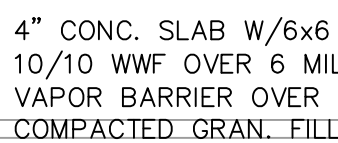


VINCENNES, INDIANA

PROJECT NO. 15 02

REV	DATE	DESCRIPTION
1	2/8/19	ADDENDUM 1
2		
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ST1.1
STRUCTURE PLAN



SCALE: $3/16"=1'-0"$

1. G.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
2. INFILL ANY WALL AREAS OF DETERIORATION WITH LIKE MATERIALS.
3. GENERAL CONTRACTOR SHALL PROVIDE ALL SHORING FOR THE EXISTING STRUCTURE REQUIRED TO COMPLETE THE WORK SHOWN IN THE CONTRACT DOCUMENTS AND BE SOLELY RESPONSIBLE FOR THE SAME.



1. G.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
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PANTHEON BUSINESS THEATRE
VINCENNES, INDIANA

PROJECT NO. 15 02

1000

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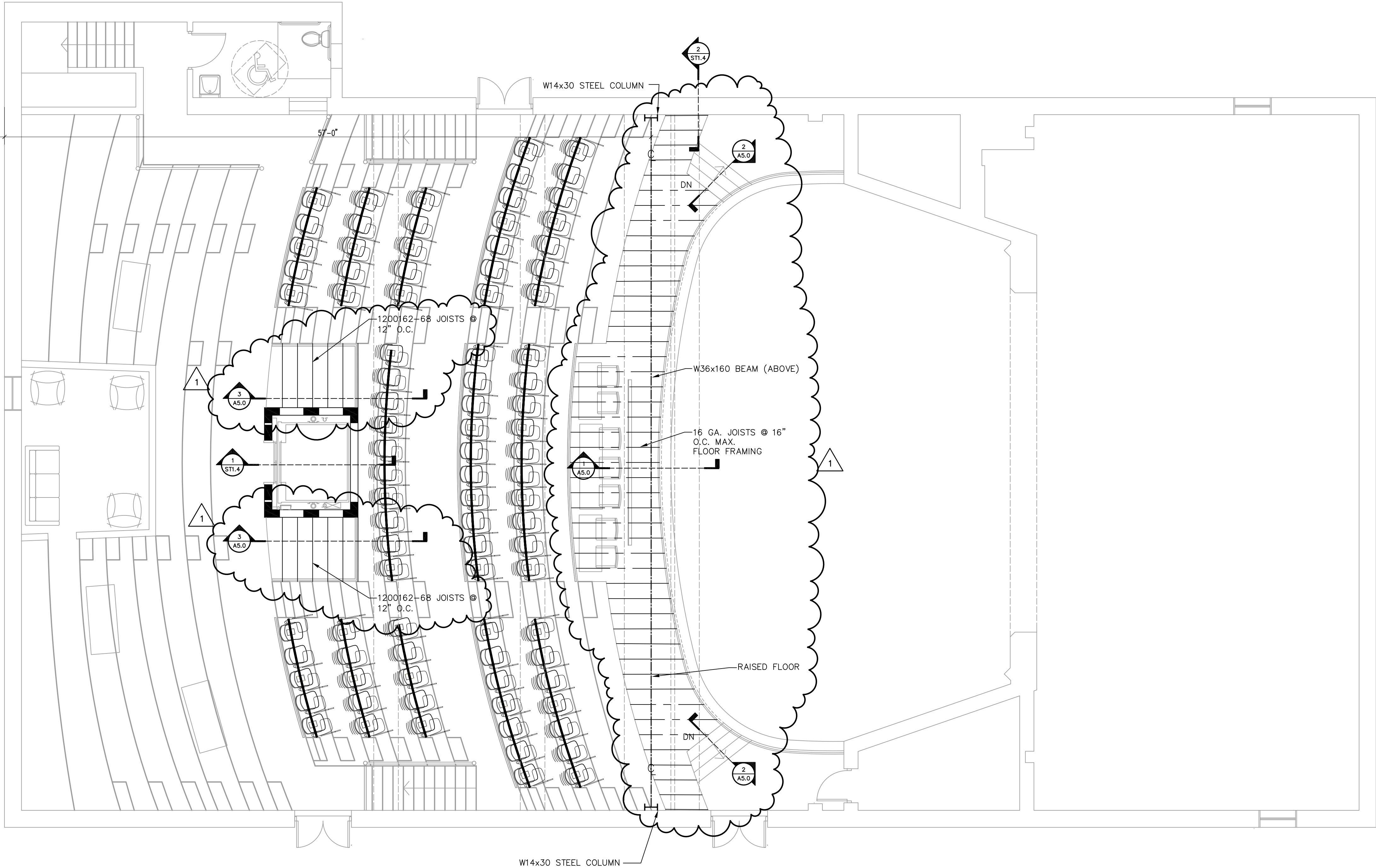
REV	DATE	DESCRIPTION
①	2/8/19	ADDENDUM 1
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④		
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DRAWN: STAFF
CHECKED: APM

ST1.2

STRUCTURE PLAN

DATE: NOV. 16, 2018



1 THIRD FLOOR STRUCTURE PLAN
SCALE: 3/16"=1'-0"

- GENERAL NOTES:**
- G.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
 - INFILL ANY WALL AREAS OF DETERIORATION WITH LIKE MATERIALS.
 - GENERAL CONTRACTOR SHALL PROVIDE ALL SHORING FOR THE EXISTING STRUCTURE REQUIRED TO COMPLETE THE WORK SHOWN IN THE CONTRACT DOCUMENTS AND BE SOLELY RESPONSIBLE FOR THE SAME.

REV	DATE	DESCRIPTION
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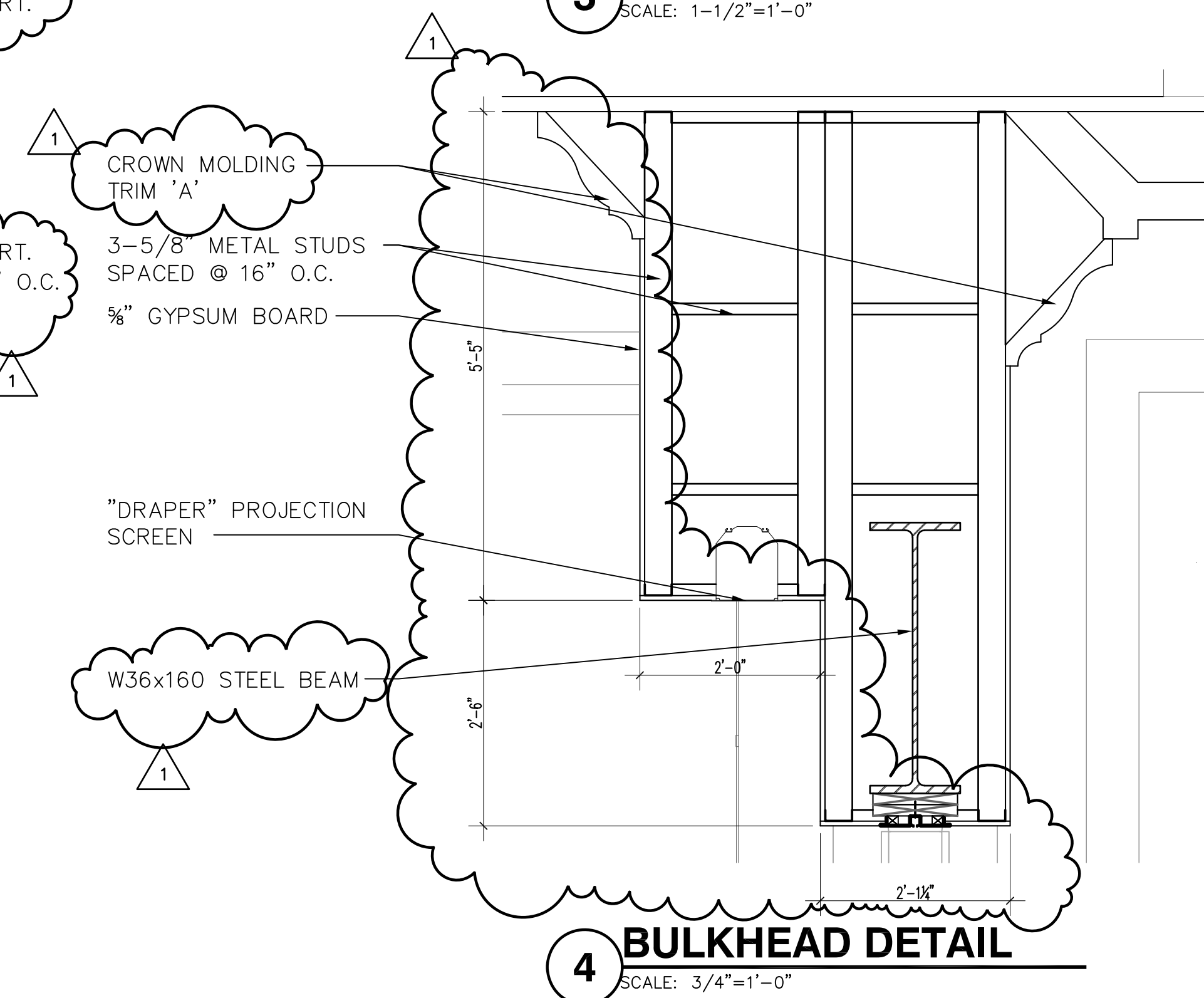
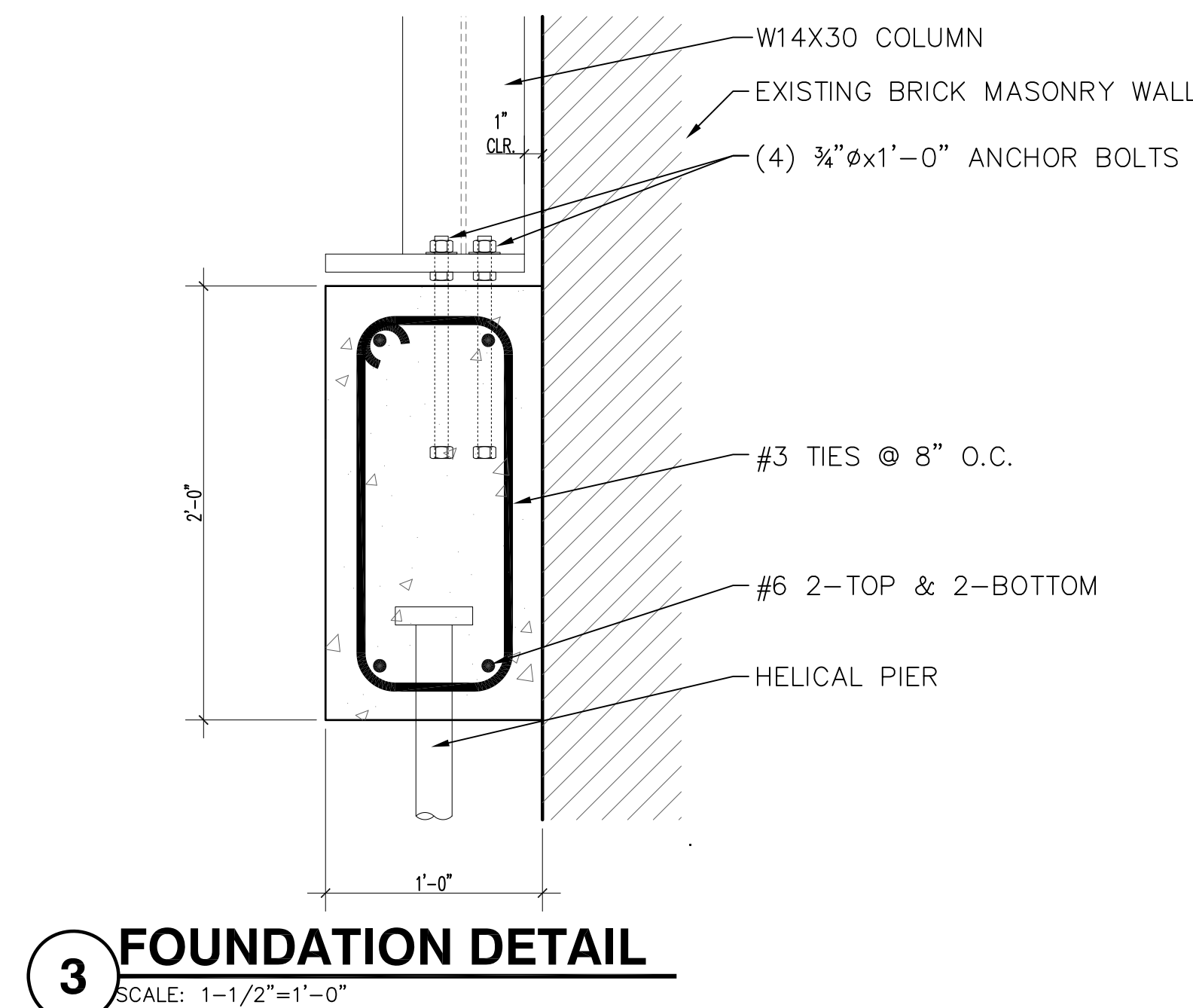
ST1.3
STRUCTURE PLAN

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FACILITY RENOVATIONS
FOR
PANTHEON BUSINESS THEATRE
VINCENNES, INDIANA
PROJECT NO. 15_02

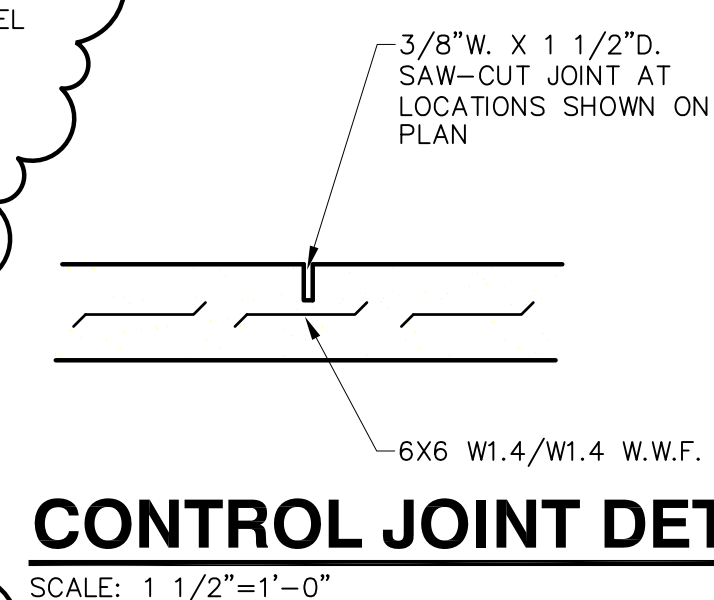
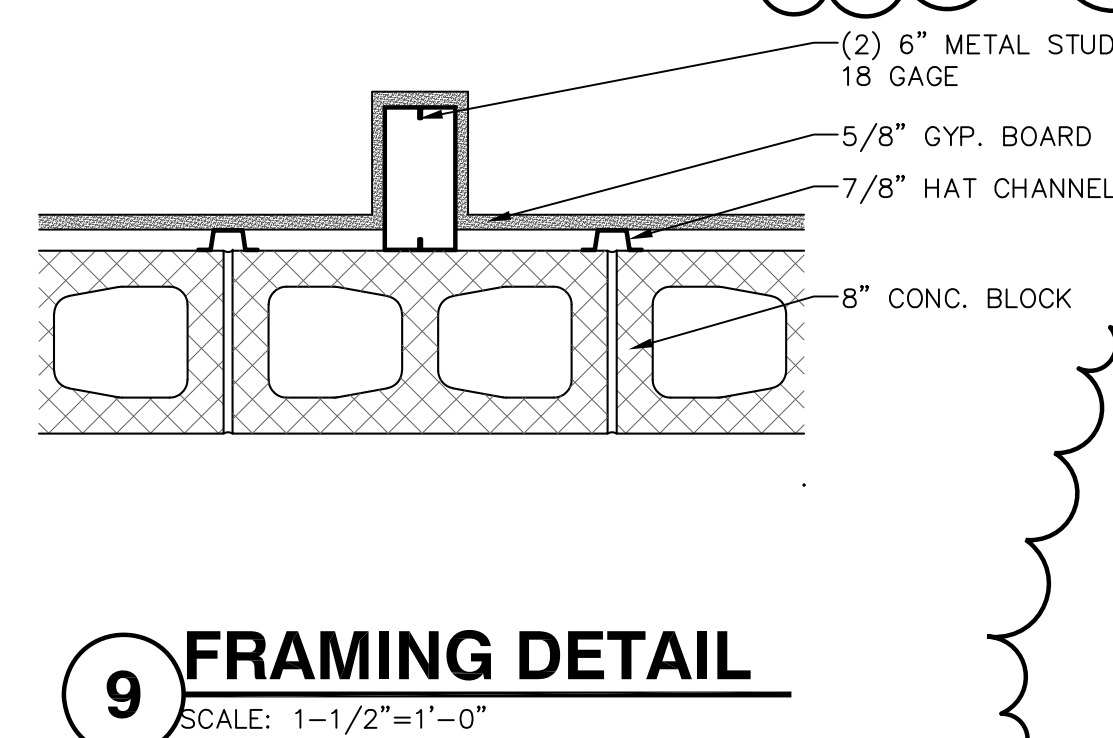
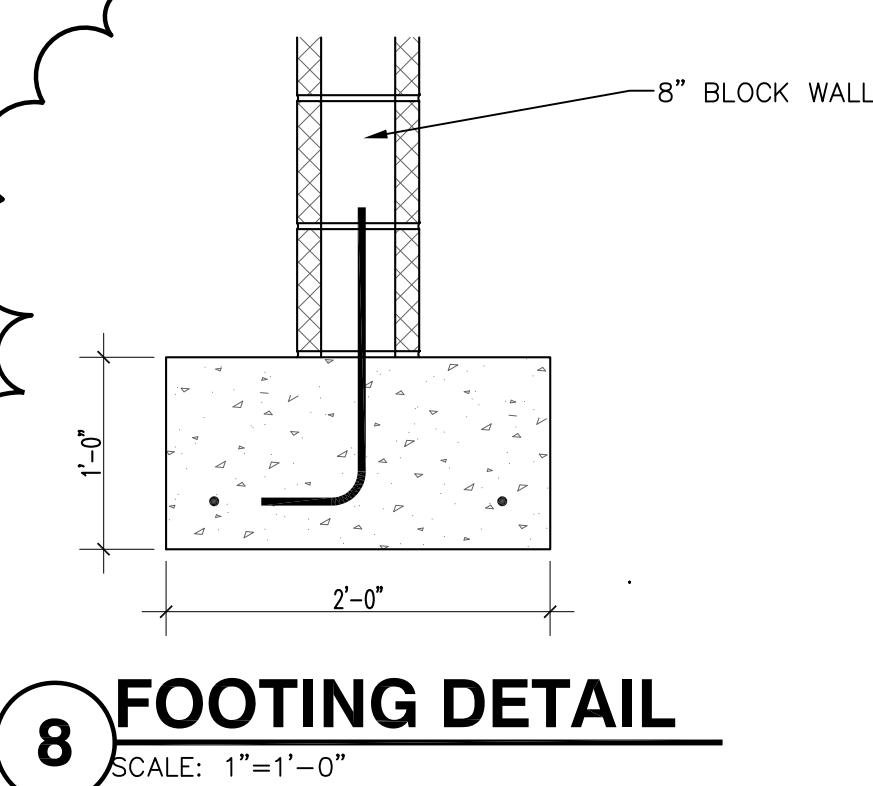
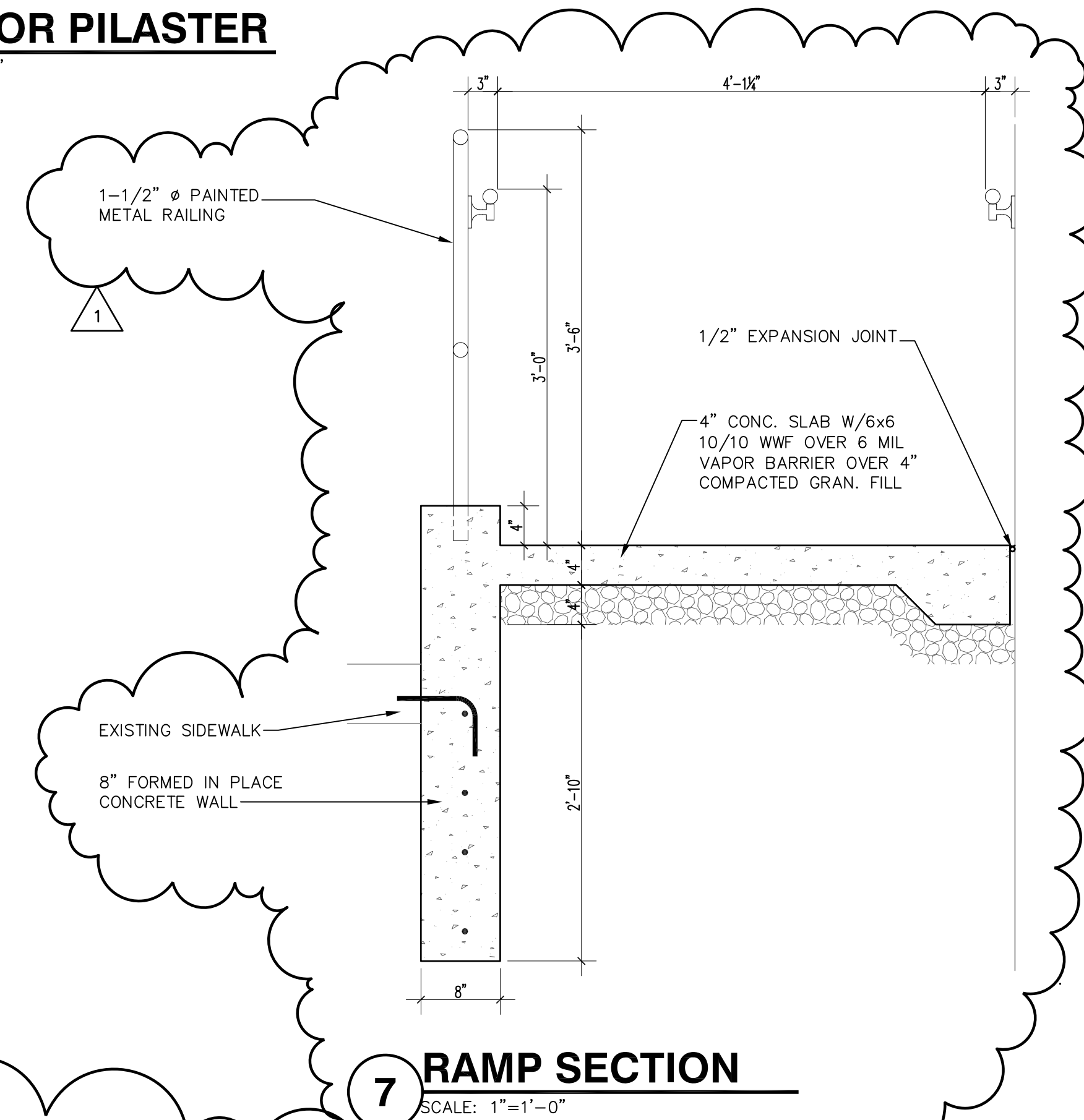
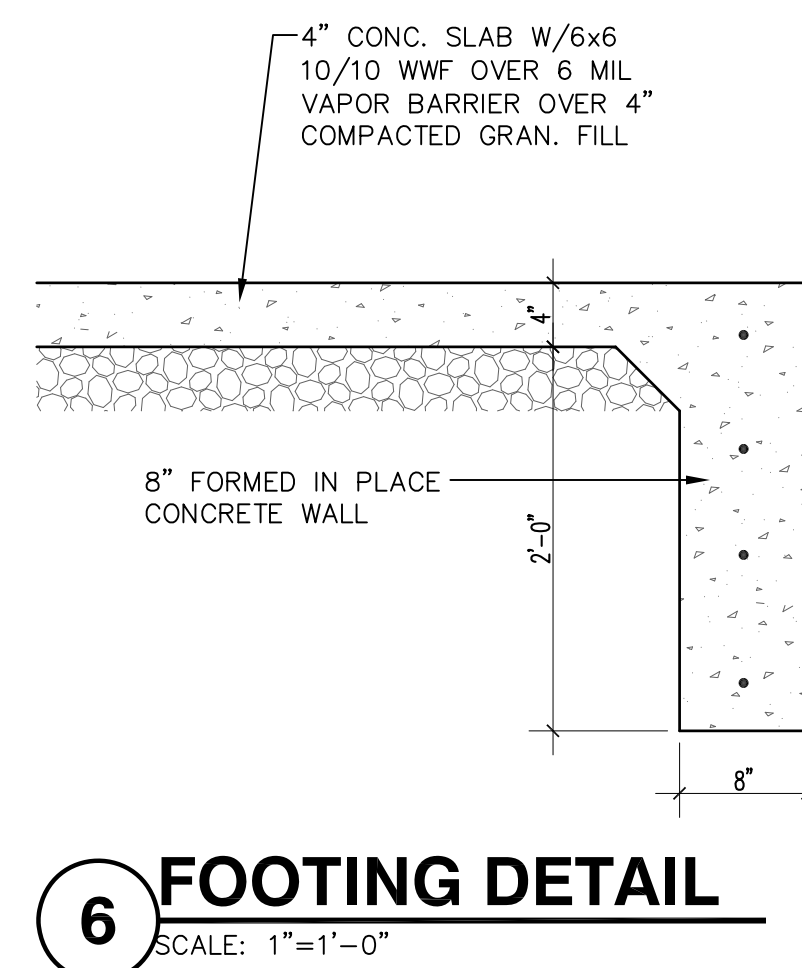
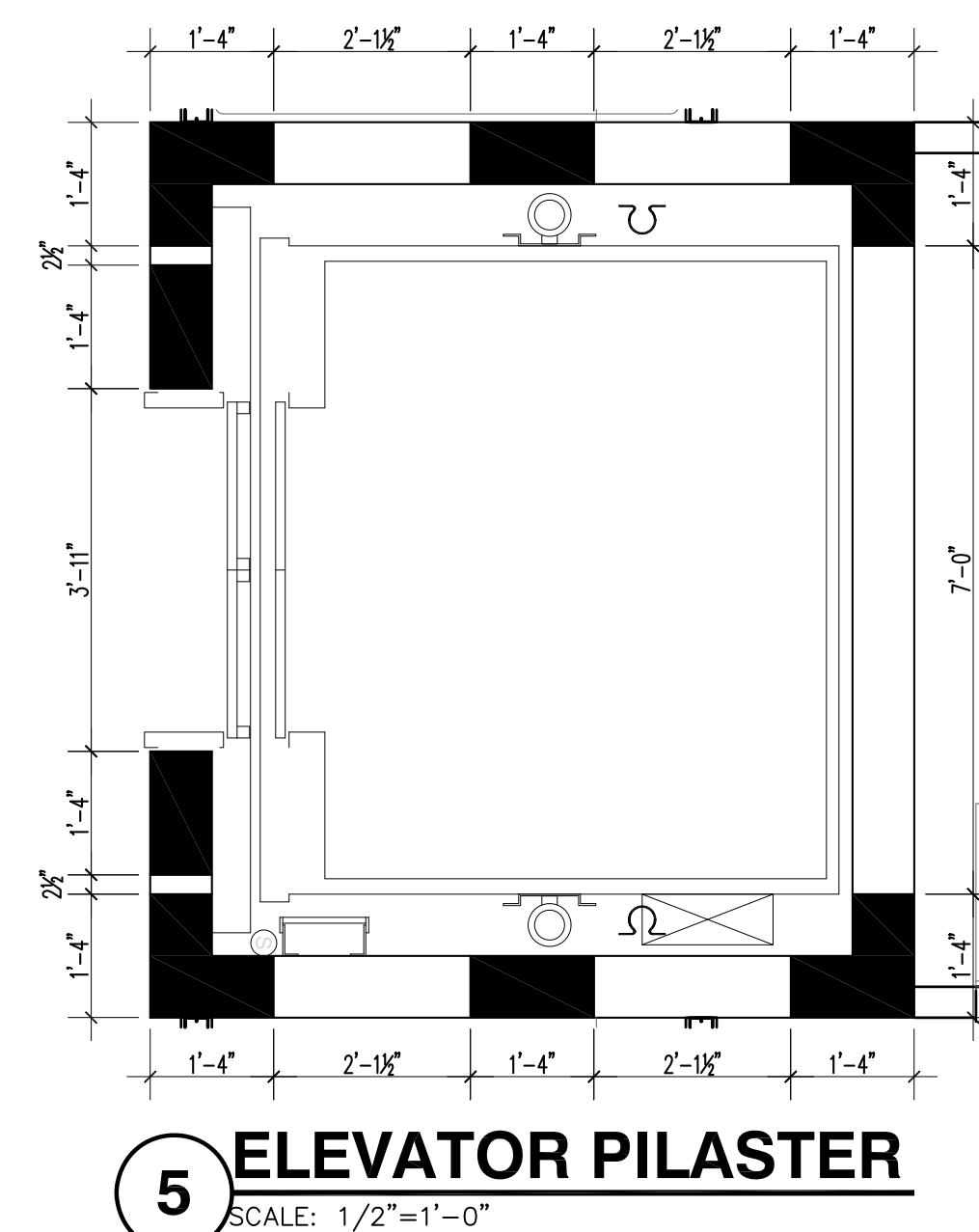
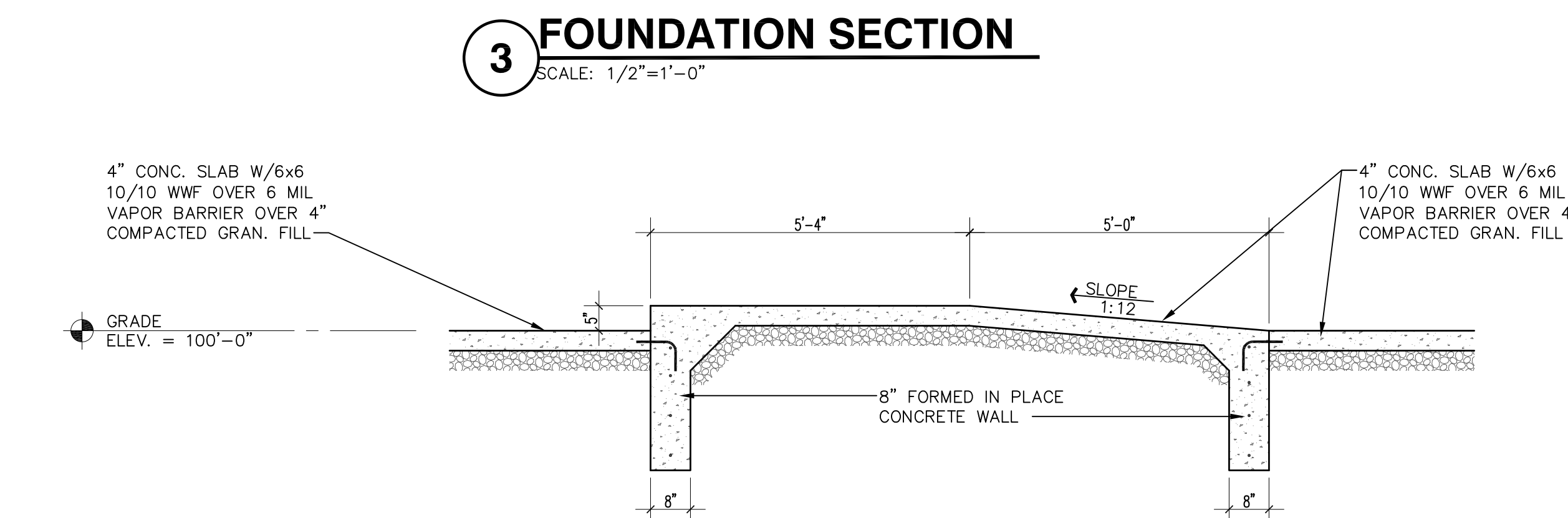
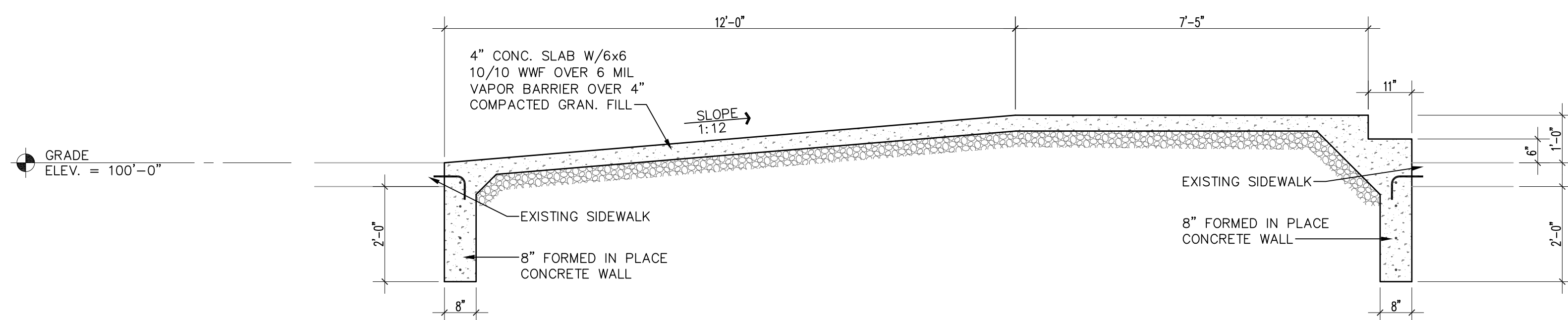
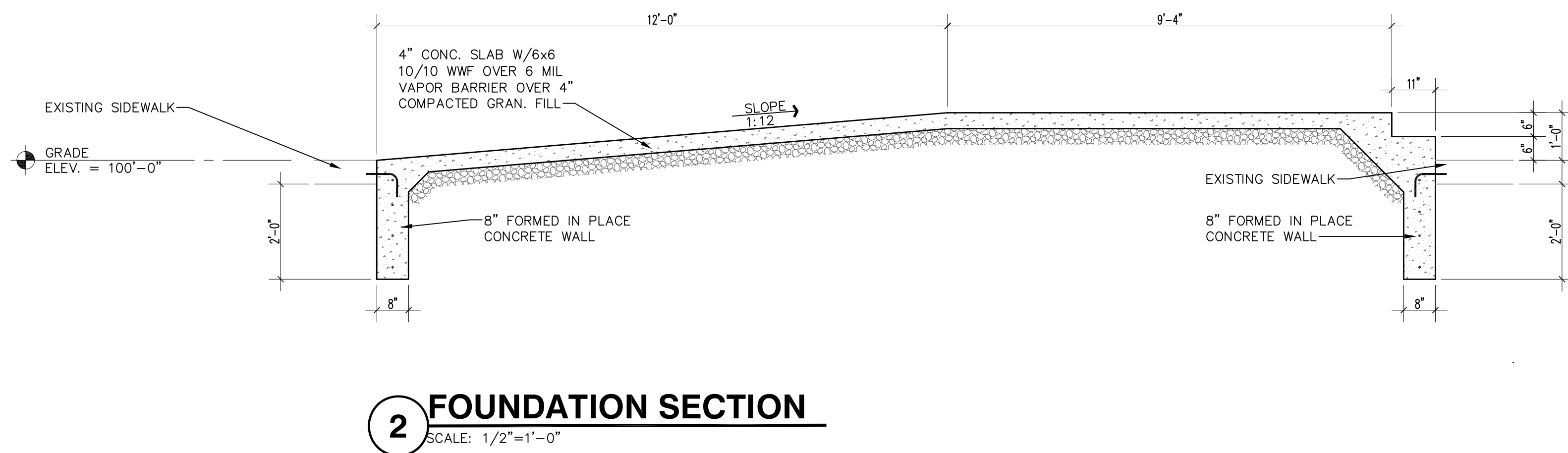
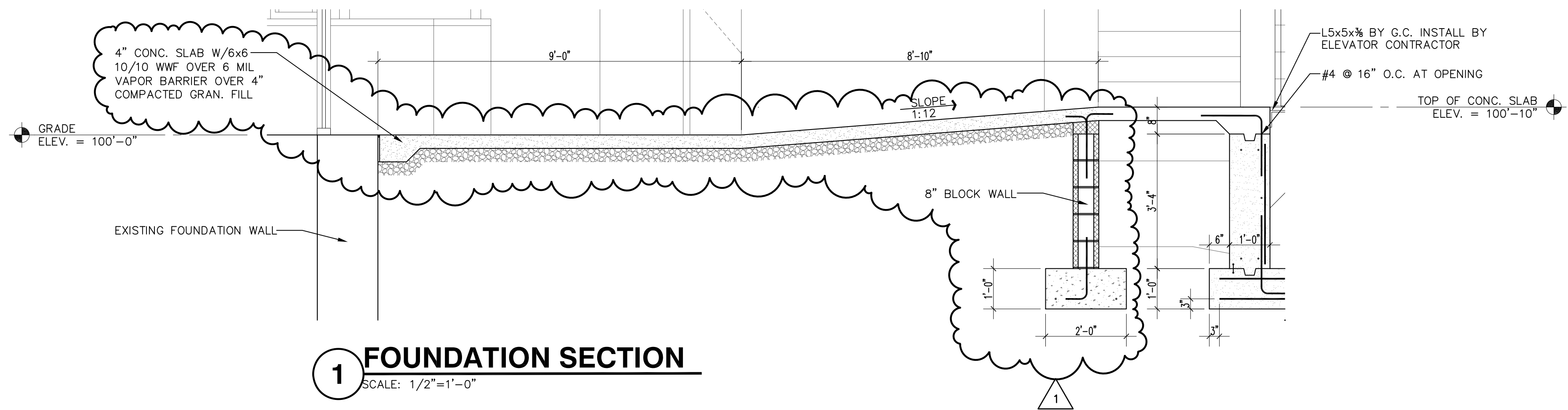
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4 BULKHEAD DETAIL

1. G.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
2. INFILL ANY WALL AREAS OF DETERIORATION WITH LIKE MATERIALS.
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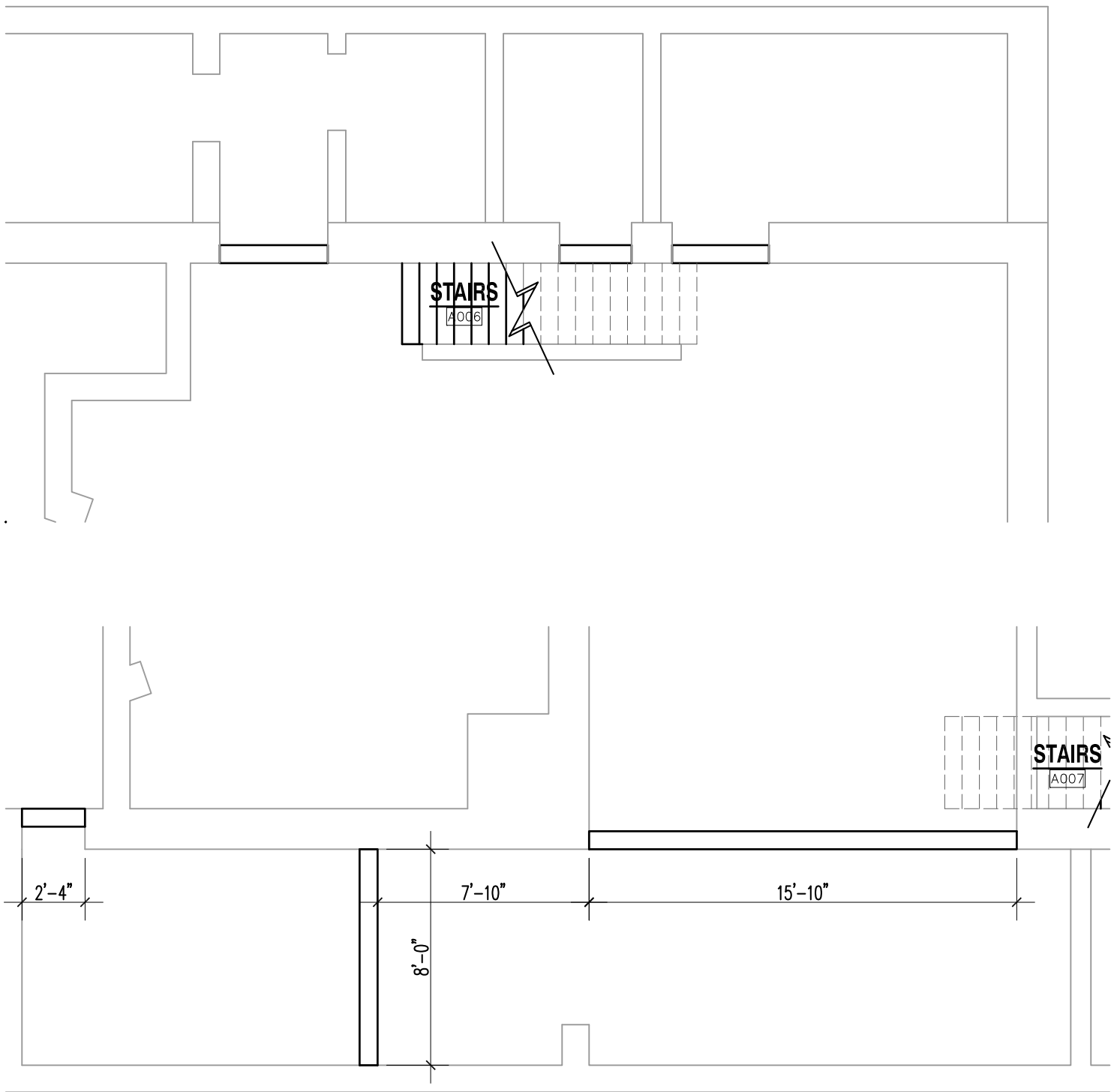
REV	DATE	DESCRIPTION
1	2/8/19	ADDENDUM 1
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LOOSE STEEL LINTEL SCHEDULE (SEE NOTE 1)			
WALL TYPE	NOMINAL WALL THICKNESS	CLEAR MASONRY OPENING WIDTH	STEEL LINTEL SECTION
FACE BRICK (NOTE 2)	4"	UP TO 8'-6"	L 4x3 1/2x5/16 (LLV)
		UP TO 7'-8"	L 5x3 1/2x5/16 (LLV)
		UP TO 8'-0"	L 6x3 1/2x5/16 (LLV)

- GENERAL NOTES:**

1. G.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
2. INFILL ANY WALL AREAS OF DETERIORATION WITH LIKE MATERIALS.
3. GENERAL CONTRACTOR SHALL PROVIDE ALL SHORING FOR THE EXISTING STRUCTURE REQUIRED TO COMPLETE THE WORK SHOWN IN THE CONTRACT DOCUMENTS AND BE SOLELY RESPONSIBLE FOR THE SAME.



BASEMENT LEVEL FLOOR PLAN

SCALE: 3/16"=1'-0"

PANTHEON BUSINESS THEATER

REFERENCE SHEET A1.0

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PANTHEON BUSINESS THEATER

VINCENNES, IN

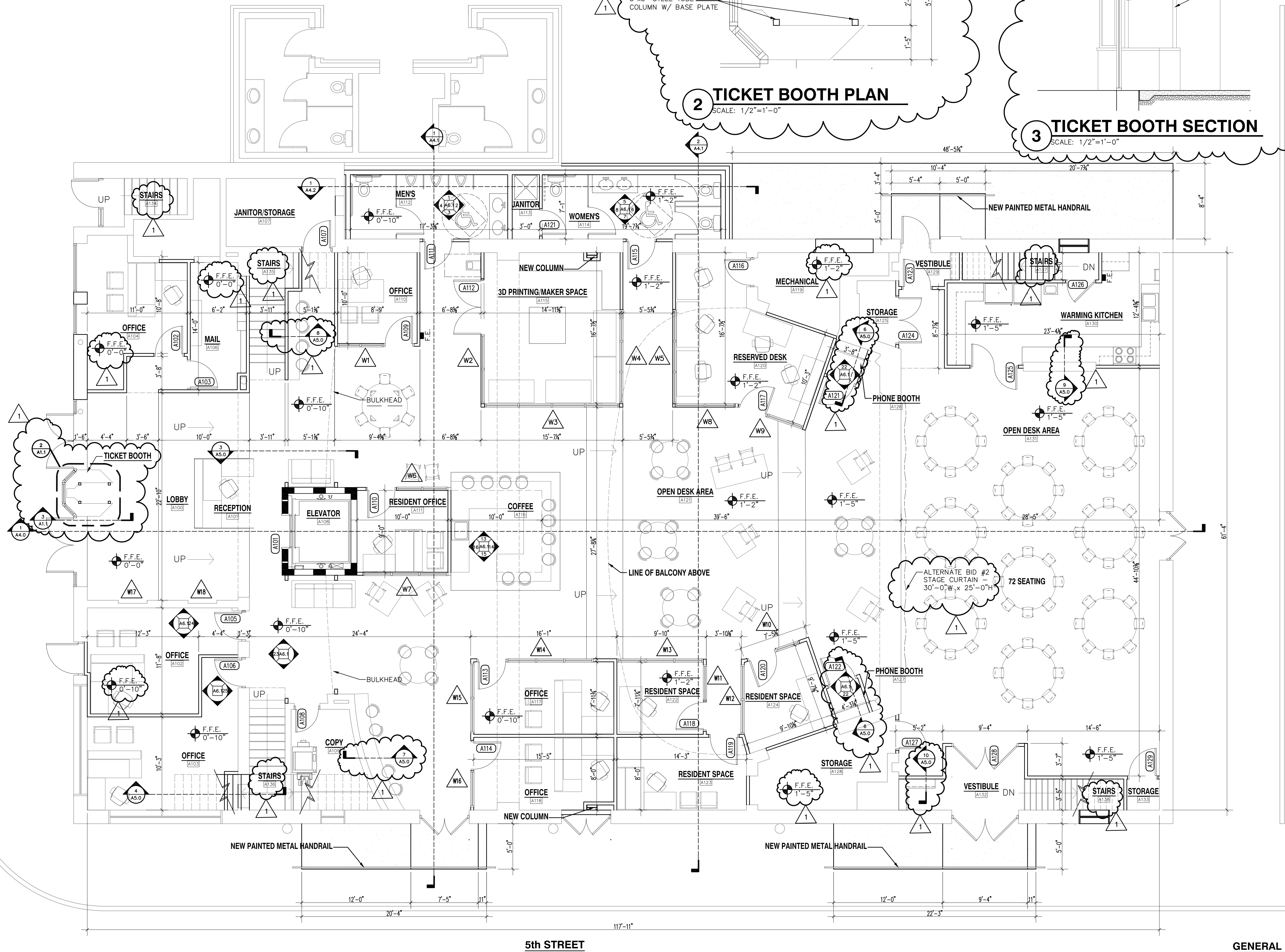
DATE: 1/08/19

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CHECKED: APM

PROJECT ID: 15-02

MAIN STREET



1 FIRST LEVEL FLOOR PLAN
SCALE: 3/16"=1'-0"

5th STREET

2 TICKET BOOTH PLAN
SCALE: 1/2"=1'-0"

3 TICKET BOOTH SECTION
SCALE: 1/2"=1'-0"

- GENERAL NOTES:**
- G.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
 - INFILL ANY WALL AREAS OF DETERIORATION WITH LIKE MATERIALS.
 - GENERAL CONTRACTOR SHALL PROVIDE ALL SHORING FOR THE EXISTING STRUCTURE REQUIRED TO COMPLETE THE WORK SHOWN IN THE CONTRACT DOCUMENTS AND BE SOLELY RESPONSIBLE FOR THE SAME.

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FACILITY RENOVATIONS
FOR
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VINCENNES, INDIANA
PROJECT NO. 15_02

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REV	DATE	DESCRIPTION
1	2/8/19	ADDENDUM 1
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DRAWN: STAFF

CHECKED: APM

A1.1
FIRST LEVEL
FLOOR PLAN

1. G.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
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STAIR SECTION
SCALE: 3/4" = 1'-0"

- CEILING HEIGHT - 564'-0"
ELEV. = +/- 20'-5-1/4"
- 5/8" GYPSUM BOARD
- 1-1/2" Ø PAINTED HANDRAIL @ 36" A.F.F.
- STEEL STAIR STRINGER
- RUBBER FLOORING
- 2x12 WOOD JOIST
- 3/4" OSB DECKING
- TOP OF F.F.
ELEV. = +/- 12'-5-1/4"
- CEILING HEIGHT - 564'-0"
ELEV. = 110'-10"
- 5/8" GYPSUM BOARD
- METAL FRAMING SPACED @ 16" O.C.
- EXISTING MASONRY WALL
- STEEL LINTEL
- METAL STUD
- 5/8" GYPSUM BOARD
- 11"
- 60"
- METAL PAN STAIR
- STEEL BEAM
- METAL STUD W/ BATT INSULATION
- OFFICE
[A103]
- TOP OF FIN. FLR. - 100'-10"
- 3/4" OSB DECKING
- METAL FRAMING SPACED @ 16" O.C.

CASEWORK SECTION 7
SCALE: 1/2" = 1'-0"

- EXISTING CROWN MOLDING
- EXISTING WALL
- SOLID SURFACE COUNTER TOP
- 1'-3"
- 2x4 BLOCKING
- 3'-0"

CASEWORK SECTION 8
SCALE: 1/2" = 1'-0"

- 3-5/8" METAL STUD SPACED @ 16" O.C.
- WARMING KITCHEN
[A132]
- ACCORDION OPENING
- SOLID SURFACE COUNTER TOP
- 1'-3"
- 2x4 BLOCKING
- 3'-0"

CASEWORK SECTION 9
SCALE: 1/2" = 1'-0"

The drawing shows three cross-sections of casework. Section 7 shows a wall with crown molding, existing wall, solid surface counter top, 1'-3" gap, and 2x4 blocking at 3'-0" height. Section 8 shows a similar wall with metal studs spaced at 16" O.C., accordion opening, solid surface counter top, 1'-3" gap, and 2x4 blocking at 3'-0" height. Section 9 shows a similar wall with metal studs spaced at 16" O.C., accordion opening, solid surface counter top, 1'-3" gap, and 2x4 blocking at 3'-0" height.

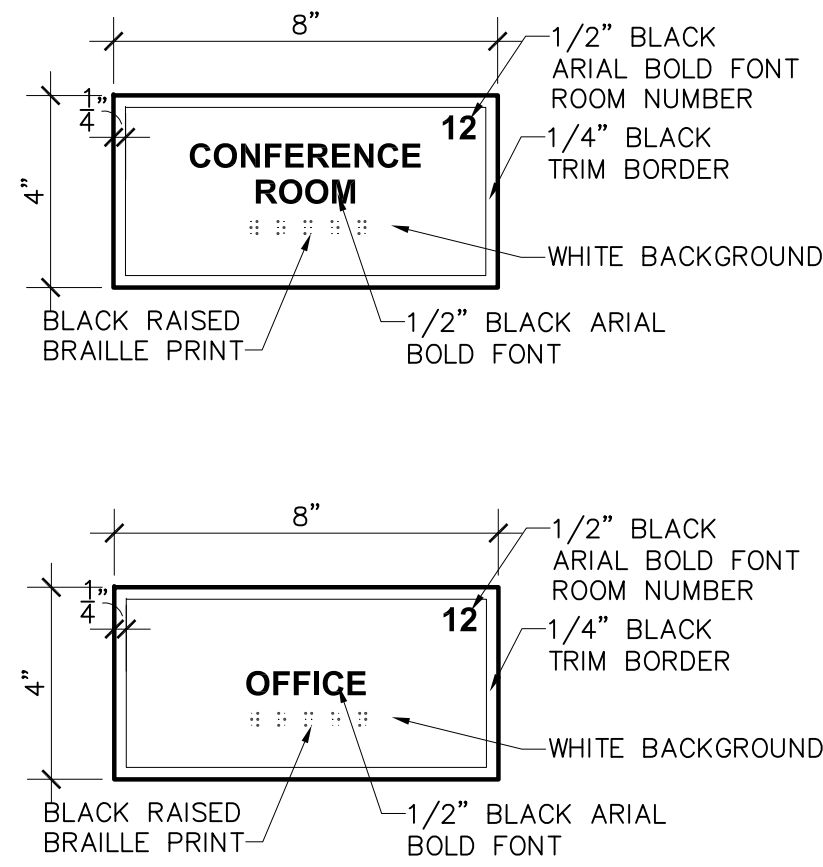


NOTE SIGN SHALL BE CAST ALUMINUM WITH BLACK BACKGROUND AND RAISED SILVER ALUMINUM LETTERING AND STRIPING, MOUNTED W/CONCEALED STUDS

NOTE G.C. SHALL PROVIDE PLAQUE & MOUNTING EQUIPMENT. BOARD SHALL INSTALL PER MANUFACTURER'S SPECS.

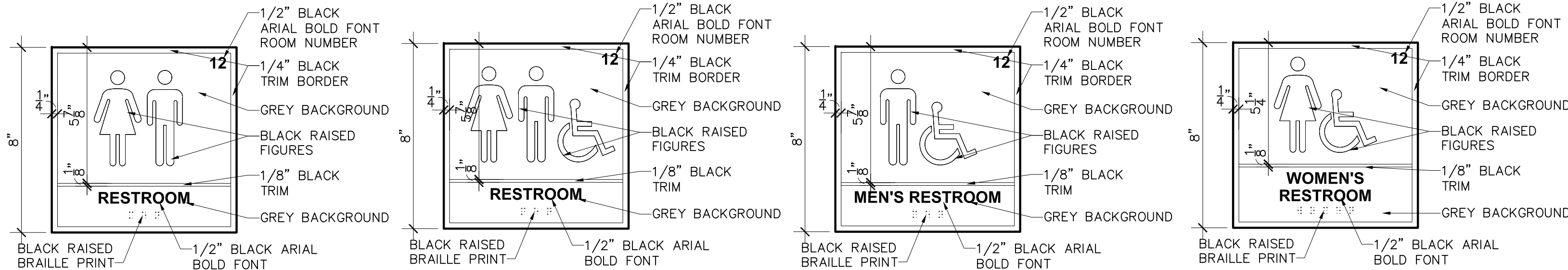
2 ROOM SIGNAGE

SCALE: 3"=1'-0"



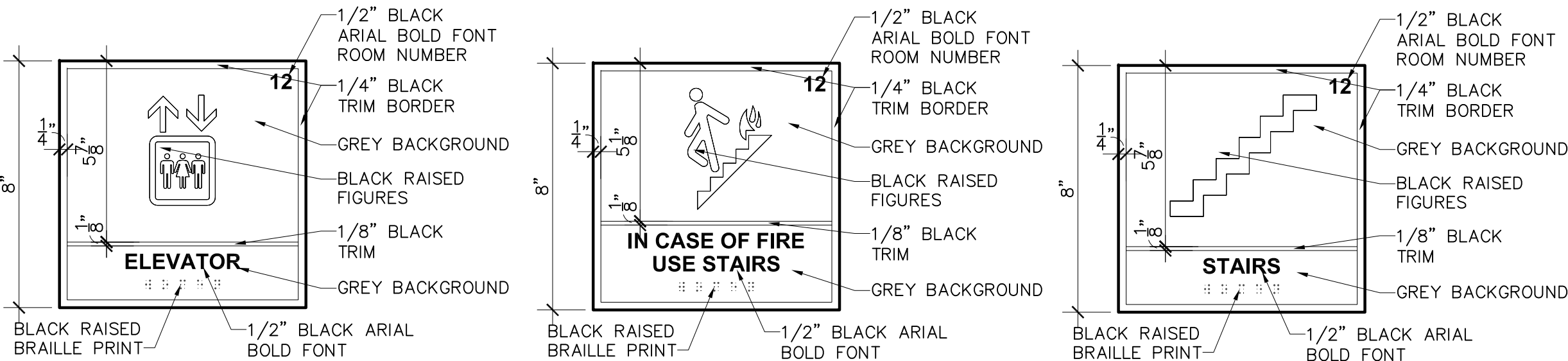
1 PANTHEON DEDICATION PLAQUE ELEVATION

SCALE: 3"=1'-0"



3 RESTROOM SIGNAGE

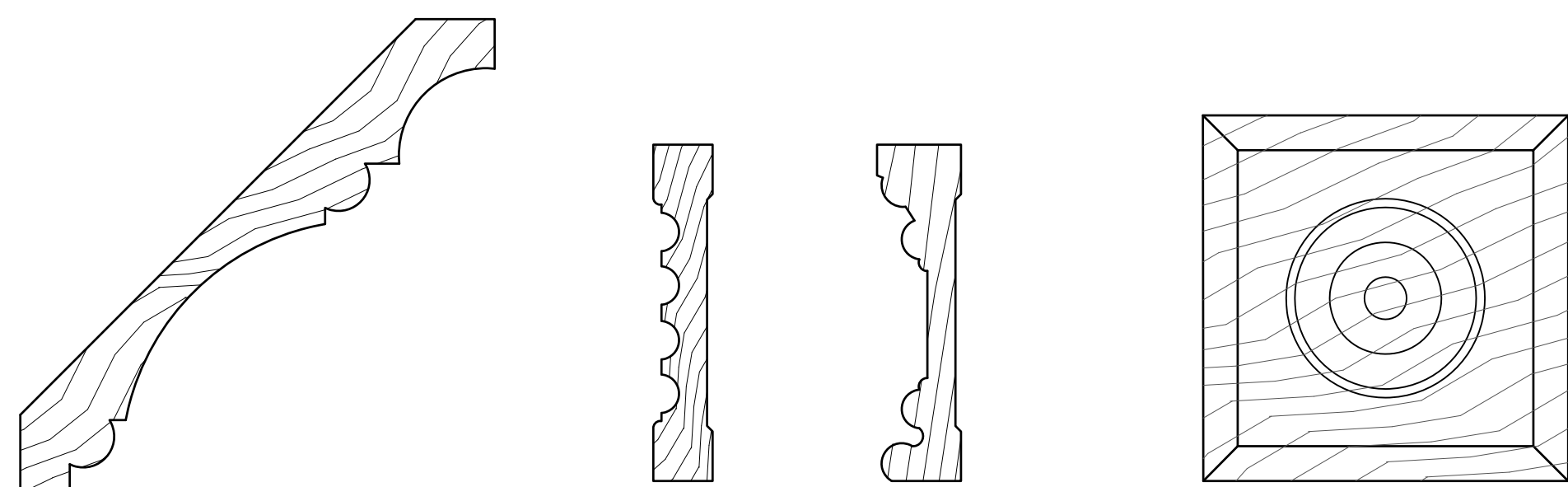
SCALE: 3"=1'-0"



NOTE ALL BUILDING SIGNAGE SHALL CONTAIN RAISED CHARACTERS THAT SHALL CONTRAST WITH THE SIGN'S BACKGROUND AND BRAILLE. SIGNAGE SHALL BE PLACED ON THE WALL ON THE LATCH SIDE OF THE DOOR. THE BOTTOM OF ALL SIGNAGE SHALL BE PLACED AT 48"A.F.F.

4 ELEVATOR/STAIR SIGNAGE

SCALE: 3"=1'-0"



INTERIOR TRIM DETAILS

SCALE: HALF SIZE

ROOM FINISH SCHEDULE																														
ROOM		FLOOR				BASE		WALLS								CEILING						REMARKS	NO.							
NO.	NAME	POURED EPOXY FLOORING	CARPET TILE	LUXURY VINYL TILE	VINYL TREADS/RIISERS	SEALED CONCRETE	FINISHED EXISTING WOOD FLOOR	EPOXY TURNED UP COVE	PORCELAIN TILE	4" VINYL	FINISHED EXISTING WOOD BASE	MATERIAL				FINISH				2X2 LAY-IN	PAINTED GYPSUM BD.			PAINTED EXISTING					HEIGHT	
												1	2	3	4	P1	P2													
												N	E	S	W	N	E	S	W											
A001	STORAGE/MECHANICAL												1	1	1	1	P1	P1	P1	P1							9'-4"	A001		
A002	STORAGE/MECHANICAL												1	1	1	1	P1	P1	P1	P1							9'-4"	A002		
A003	STORAGE/MECHANICAL												1	1	1	1	P1	P1	P1	P1							9'-4"	A003		
A004	I.T.												2	2	2	2	P1	P1	P1	P1							9'-4"	A004		
A005	ELECTRICAL												2	2	2	2	P1	P1	P1	P1							9'-4"	A005		
A006	STAIRS												1	1	1	1	P1	P1	P1	P1										
A007	STAIRS												1	1	1	1	P1	P1	P1	P1										
A100	LOBBY												1	1	1	1	P1	P1	P2	P1							10'-2"	A101		
A101	RECEPTION												-	-	-	-	P1	P1	P1	P1							VARIES	A101		
A102	OFFICE												2	2	2	2	P1	P1	P1	P1							8'-0"	A102		
A103	OFFICE												2	2	2	2	P1	P1	P1	P1							8'-0"	A103		
A104	OFFICE												1,2	2	2	2	P1	P1	P1	P1							10'-2"	A104		
A106	MAIL												1,2	2	2	2	P1	P1	P1	P1							10'-2"	A106		
A107	JANITOR/STORAGE												1	1	1	1	P1	P1	P1	P1							8'-0"	A107		
A108	ELEVATOR																													
A109	COPY												1	1	1	1	P1	P1	P1	P1							8'-0"	A109		
A110	OFFICE												1	2	2	2	P1	P1	P1	P1							9'-2"	A110		
A111	RESIDENT OFFICE												2	2	2	2	P1	P1	P1	P1							9'-2"	A111		
A112	MEN'S												2,3	2,3	2,3	2,3	P1	P1	P1	P1							8'-0"	A112		
A113	JANITOR												2	2	2	2	P1	P1	P2	P1							8'-0"	A113		
A114	WOMEN'S												2,3	2,3	2,3	2,3	P1	P1	P1	P1							8'-0"	A114		
A115	3D PRINTER/MAKER SPACE												1	2	2	2	P1	P1	P1	P1							9'-2"	A115		
A116	COFFEE												-	-	-	-	P1	P1	P1	P1							9'-2"	A116		
A117	OFFICE												2	2	2	2	P1	P1	P1	P1							9'-2"	A117		
A118	OFFICE												2	2	2	2	P1	P1	P1	P1							9'-2"	A118		
A119	MECHANICAL												2	2	2	2	P1	P1	P1	P1										
A120	RESERVED DESK												1	1	1,2	2	P1	P1	P1	P2							VARIES	A120		
A121	OPEN DESK AREA												2	1,2	2	2	P1	P1	P1	P1							VARIES	A121		
A122	RESIDENT SPACE												2	2	2	2	P1	P1	P1	P1							VARIES	A122		
A123	RESIDENT SPACE												2	1,2	1,2	2	P2	P1	P1	P1							VARIES	A123		
A124	RESIDENT SPACE												2	2	1,2	2	P1	P1	P1	P1								A124		
A125	STORAGE												1	1	1	2	P2	P1	P1	P1								A125		
A126	PHONE BOOTH												1	2	2	2	P1	P1	P1	P1								A126		
A127	PHONE BOOTH												2	2	1	2	P1	P1	P1	P1								A127		
A128	STORAGE												2	2	2	2	P1	P1	P1	P1								A128		
A129	VESTIBULE												4	2	2	4	P1	P1	P1	P1							8'-0"	A129		
A130	WARMING KITCHEN												2,4	4	2	2	P1	P1	P1	P1							8'-0"	A130		
A131	OPEN DESK AREA												2	4	2	4	P1	P1	P1	P1								A131		
A132	VESTIBULE												2	2	1	2,4	P1	P1	P1	P1							8'-0"	A132		
A133	STORAGE												2	4	4	2	P1	P1	P1	P1							8'-0"	A133		
A134	STAIRS												1	1	1	1	P1	P1	P1	P1										
A135	STAIRS												1	1	1	1	P1	P1	P1	P1										
A136	STAIRS												1	1	1	1	P1	P1	P1	P1										
A137	STAIRS												1	1	1	1	P1	P1	P1	P1										
A138	STAIRS												1	1	1	1	P1	P1	P1	P1										
A201	STORAGE												1	1	1	1	P1	P1	P1	P1									A201	
A202	CONFERENCE												1	1	1	1	P1	P1	P1	P1									A202	
A203	RESIDENT OFFICE												1,2	1	1	1	P1	P1	P1	P1									A203	
A204	RESIDENT OFFICE												1,2	1	1	1	P1	P1	P1	P1									A204	
A205	RESIDENT OFFICE												1,2	2	1	1	P1	P1	P1	P1									A205	
A206	CORRIDOR												1,2	1,2	1,2	1,2	P1	P1	P1	P1							8'-0"	A206		
A207	ELEVATOR																												A207	
A208	STAIRS												1	1	1	1	P1	P1	P1	P1										
A209	STAIRS												1	1	1	1	P1	P1	P1	P1										
A301	UNISEX RESTROOM												1	1	1	1	P1	P1	P1	P1									A301	
A302	BALCONY SEATING												1	1	1	1	P1	P1	P1	P1									A302	
A303	LOUNGE												1	1	1	1	P1	P1	P1	P1									A303	
A304	ELEVATOR																												A304	
A305	PLATFORM												1	1	1	1	P1	P1	P1	P1									A305	
A306	STAIRS												1	1	1	1	P1	P1	P1	P1										
A307	STAIRS												1	1	1	1	P1	P1	P1	P1										
A308	STAIRS												1	1	1	1	P1	P1	P1	P1										

FINISH NOTES:

- ROOM CONTAINS GYP. BD. BULKHEAD. SEE REFLECTED CEILING FOR HEIGHT AND LOCATION.
- ROOM CONTAINS GLAZED CMU, WHICH SHALL BE COVERED W/ SPECIALTY PAINT - SEE SPECS

GENERAL NOTES:

- G.C. SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
- INFILL ANY WALL AREAS OF DETERIORATION WITH LIKE MATERIALS.
- GENERAL CONTRACTOR SHALL PROVIDE ALL SHORING FOR THE EXISTING STRUCTURE REQUIRED TO COMPLETE THE WORK SHOWN IN THE CONTRACT DOCUMENTS AND BE SOLELY RESPONSIBLE FOR THE SAME.

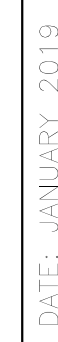
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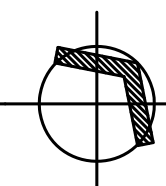
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PROJECT NO. 15 02

REV	DATE	DESCRIPTION
△	2/8/19	DUCTWORK CHANGES
△		
△		
△		
△		

M.1

**BASEMENT LEVEL
MECHANICAL PLAN**



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

SCHEDULE OF DIFFUSERS & GRILLES										
MARK	MANUFACTURER	MODEL	INLET DIM. SIZE	NOMINAL SIZE	AIR FLOW (CFM)	AIR THROW (FT)	AIR PRESSURE DROP (IN W.G.)	SOUND (NC)	MOUNTING	REMARKS
S1	PRICE	LMBH 15A	12" x 12"	12" x 12"	230	10	0.024	<15	FLOOR	①
S2			12" x 6"	12" x 6"	100					①
S3			12" x 10"	12" x 10"	180					①
S4			14" x 12"	14" x 12"	250					①
S5			12" x 8"	12" x 8"	150					①
S6			12" x 12"	12" x 12"	200					①
S7		520D	36" x 12"	36" x 12"	875	16-52	0.014		DUCT	①
S8			16" x 6"	16" x 6"	150	7-22			WALL	①
S9		SMD	15" x 15"	24" x 24"	400	10-21	0.036		LAY-IN	①
S10		520D	10" x 6"	10" x 6"	100	6-19	0.014		DUCT	①
S11		SMD	6" x 6"	12" x 12"	100	5-15	0.036		SURFACE	①
S12			12" x 12"	24" x 24"	300	8-19			LAY-IN	①
R1	PRICE	LMBH 15A	14" x 20"	14" x 20"	460	----	0.024	<15	FLOOR	
R2			14" x 10"	14" x 10"	200	----				
R3			14" x 14"	14" x 14"	300	----				
R4			14" x 18"	14" x 18"	360	----				
R5			14" x 22"	14" x 22"	500	----				
R6			14" x 14"	14" x 14"	300	----				
R7			14" x 10"	14" x 10"	200	----				
R8			14" x 8"	14" x 8"	150	----				
R9		80	8" x 8"	8" x 8"	75	----	0.013		SURFACE	
R10			10" x 10"	10" x 10"	150	----				
R11		LMBH 15A	14" x 20"	14" x 20"	430	----	0.024		FLOOR	
R12		95	24" x 30"	24" x 30"	1500	----	0.018		WALL	
R13			30" x 36"	30" x 36"	2700	----	0.013			
R14		80	18" x 18"	18" x 18"	600	----			SURFACE	
R15			12" x 12"	12" x 12"	200	----			WALL	
R16			16" x 16"	16" x 16"	400	----			SURFACE	
R17			14 x 14"	14" x 14"	300	----				
DG1	PRICE	ATG	24" x 24"	24" x 24"	600	----	0.019	<15	DOOR	

① PROVIDE OPPOSED-BLADE VOLUME DAMPER AT EACH SUPPLY DIFFUSER.

SCHEDULE OF CABINET HEATERS								
MARK	MANUFACTURER	MODEL	SIZE	HEATING CAPACITY (BTU/HR)	POWER (WATTS)	VOLTAGE	FULL-LOAD AMPS	REMARKS
EH-1	QMARK	CWH3150F	----	5,115	2,000	208V, 1-PH	9.6	SURFACE-MOUNT MODEL

SCHEDULE OF FANS										
MARK	MANUFACTURER	MODEL	AIR FLOW (CFM)	MOTOR SPEED (RPM)	BRAKE HORSEPOWER	SOUND (SONES)	E.S.P. (IN)	VOLTAGE	FULL-LOAD AMPS	REMARKS
EF-1	GREENHECK	G-090	525	1550	----	5.6	0.375	120V, 1-PH	----	①
SAF-1		CSPA-A390	350	1350	----	3.0			----	②
SAF-2		CSP-A110	75	950	----	0.9			----	②
SAF-3					----				----	②
SAF-4					----				----	②

① FURNISH WITH VARI-GREEN EC MOTOR, WALL CAP, FLEX DUCT CONNECTIONS, ISOLATION HANGERS, & M.O. BACKDRAFT DAMPER.

② FURNISH WITH SOLID STATE SPEED CONTROL, ISOLATION HANGERS & M.O. BACKDRAFT DAMPER.

SCHEDULE OF FAN COIL UNITS														
MARK	MANUFACTURER	MODEL	SIZE	AIR FLOW (CFM)	OUTSIDE AIR FLOW (CFM)	HEATING			COOLING				E.S.P. (IN)	POWER (KW)
						CAPACITY (BTU/HR) 47F	CAPACITY (BTU/HR) 17F	CAPACITY (BTU/HR) -5	TOTAL CAPACITY (BTU/HR)	SENSIBLE CAPACITY (BTU/HR)	ENTR. AIR TEMPERATURE (DB/WB °F)	LVG. AIR TEMPERATURE (DB/WB °F)		
FC-1	CARRIER	FE4A	006	1,400	175	80,000	20		48,000	36,000	80/67	56/55	0.75	21.33
FC-2A		40MBQ	12	400	----	17,000	11,300	8,100	12,250	11,250	70/59		----	----
FC-2B					----									
FC-3			18		----	20,190	12,320	7,700	17,220	14,640				

① 208V, 1-PH POWER FEED FROM EXTERIOR CONDENSING UNIT

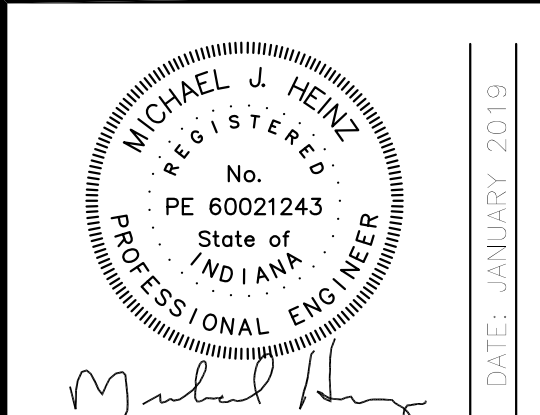
SCHEDULE OF AIR HANDLING UNITS																
MARK	MANUFACTURER	MODEL	SIZE	AIR FLOW (CFM)	OUTSIDE AIR FLOW (CFM)	HEATING			COOLING				E.S.P. (IN)	POWER (KW)	VOLTAGE	MIN. CIRCUIT AMPACITY
						GAS INPUT CAPACITY (BTU/HR)	GAS OUTPUT CAPACITY (BTU/HR)	TEMPERATURE RISE (°F)	TOTAL CAPACITY (BTU/HR)	SENSIBLE CAPACITY (BTU/HR)	ENTR. AIR TEMPERATURE (DB/WB °F)	LVG. AIR TEMPERATURE (DB/WB °F)				
AHU-1A	CARRIER	59TP6A	080-20	1,400	175	80,000	78,000	40-70	49,130	36,930	80/67	57.94/57.0	0.75	1.33	120V, 1-PH	14.7
AHU-1B																
AHU-2A																
AHU-2B																
AHU-3		59MN	080-16	1,100	75	80,000	78,000	40-70	32,570	21,990	80/67	55.5/54.1		1.16		9.7
AHU-4																
AHU-6			080-20	1,800	75	100,000	94,000	40-70	60,000	45,000	80/67	56.4/54.6		3.07	120V, 1-PH	14.8
AHU-7A		59TP6A	120-22		125	120,000	117,000	40-70	56,100	39,750	80/67	56.25/55.39		1.33		14.7
AHU-7B																
AHU-8A																
AHU-8B																

① VARIABLE SPEED FURNACE WITH APPROPRIATE EVAPORATOR COIL.

② TWINNED FURNACES WITH APPROPRIATE EVAPORATOR COIL.

SCHEDULE OF CONDENSING UNITS								
MARK	MANUFACTURER	MODEL	SIZE	COOLING CAPACITY (BTU/HR)	HEATING CAPACITY (BTU/HR)	VOLTAGE	MIN. CIRCUIT AMPACITY	REMARKS
CU-1A	CARRIER	24ACB7	48	49,130	----	208V, 1-PH	27.8	TWINNED UNIT
CU-1B					----			TWINNED UNIT
CU-2A					----			TWINNED UNIT
CU-2B					----			TWINNED UNIT
CU-3		24VNA	37	32,570			20.0	WITH VARIABLE-SPEED SCROLL COMPRESSOR. 20.5 SEER.
CU-4					----			WITH VARIABLE-SPEED SCROLL COMPRESSOR. 20 SEER.
CU-6		24VNA	60	53,500	----		35.0	WITH VARIABLE-SPEED SCROLL COMPRESSOR. 20 SEER.
CU-7A		24ACB7		56,100	----		37.3	TWINNED UNIT
CU-7B					----			TWINNED UNIT
CU-8A					----			TWINNED UNIT
CU-8B					----			TWINNED UNIT

SCHEDULE OF HEAT PUMPS UNITS							
MARK	MANUFACTURER	MODEL	SIZE	COOLING CAPACITY (BTU/HR) 85F	HEATING CAPACITY (BTU/HR) 47F	VOLTAGE	MIN. CIRCUIT AMPACITY
HP-1	CARRIER	25HNB9	48	43,200		208V, 1-PH	35.0
HP-2		38MGQ	27	24,500	34,340		30.0
HP-3			18	17,220	20,190		30.0



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PROJECT NO. 15_02

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REV	DATE	DESCRIPTION
△	2/8/15	REVISED EQUIPMENT
△		
△		
△		
△		

DRAWN: EML
CHECKED: KEH

M.6
MECHANICAL
SCHEDULES & DETAILS