

ADDENDUM NO. 1

July 20, 2026

This Addendum is hereby made a part of the Contract Documents and modifies and takes precedence over the original Contract Documents dated July 7, 2026.

Receipt of this Addendum must be acknowledged by Bidders on the “Questions/Bidder Acknowledgements” Tab on PennBid. Failure to do so may subject the Bidder to disqualification.

GENERAL / CLARIFICATIONS:

- 1.1 The Pre-Bid Meeting Agenda, dated July 9, 2026, the Pre-Bid Meeting Sign-In Sheets, dated July 9, 2026, and the Site Visit Sign-In Sheet, dated July 14, 2026, are included with this ADDENDUM for Bidders’ information.

SPECIFICATION CHANGES:

TABLE OF CONTENTS

- 1.2 ADD SECTION 080671 – DOOR HARDWARE SCHEDULE to TABLE OF CONTENTS.
1.3 ADD SECTION 087100 – DOOR HARDWARE to TABLE OF CONTENTS.
1.4 ADD SECTION 260534 – SURFACE RACEWAYS to TABLE OF CONTENTS.
1.5 ADD SECTION 281500 – INTEGRATED ACCESS CONTROL HARDWARE DEVICES to TABLE OF CONTENTS.

DIVISION 01 SPECIFICATIONS – GENERAL REQUIREMENTS

SECTION 012300 – ALTERNATES

- 1.6 REMOVE and REPLACE SECTION 012300 – ALTERNATES.

DIVISION 02 - 12 SPECIFICATIONS – ARCHITECTURAL

SECTION 080671 – DOOR HARDWARE SCHEDULE

- 1.7 ADD Section in its entirety.

SECTION 087100 – DOOR HARDWARE

- 1.8 ADD Section in its entirety.

DIVISION 22 SPECIFICATIONS – PLUMBING

SECTION 220440 – PLUMBING FIXTURES & EQUIPMENT

- 1.9 DELETE Paragraph 2.6 in its entirety.

DIVISION 26 SPECIFICATIONS – ELECTRICAL

SECTION 260530 – TELECOMMUNICATIONS ROUGH-IN

1.10 REMOVE Section 1.1(D).

SECTION 260534 – SURFACE RACEWAYS

1.11 ADD Section in its Entirety.

SECTION 260620 – SCHEDULES FOR ELEC DISTRIBUTION EQUIPMENT

1.12 REVISE additional panel note L1 -> L3.

DIVISION 28 SPECIFICATIONS – ELECTRONIC SAFETY & SECURITY

SECTION 281500 – INTEGRATED ACCESS CONTROL HARDWARE DEVICES

1.13 ADD Section in its entirety.

DRAWING CHANGES:

ARCHITECTURAL DRAWINGS

1.14 A012 CODE PLAN – FIRST FLOOR

- a. REVISE Open Office Layout.
- b. RELOCATE Fire Extinguisher Cabinet.

1.15 A032 DEMOLITION PLAN

- a. REVISE Ground Floor and First Floor Demolition plans.

1.16 A101 FLOOR PLAN

- a. REVISE Ground Floor Plan.
- b. REVISE First Floor Plan.
- c. ADD First Floor Plan Notes.

1.17 A111 REFLECTED CEILING PLAN

- a. ADD Stair Tower Scope.
- b. REVISE Ground Floor RCP.
- c. REVISE First Floor RCP.
- d. REVISE Ceiling Legend Note.

1.18 A401 ENLARGED PLAS & INTERIOR ELEVATIONS

- a. REVISE Enlarged RR Plans.
- b. ADD Baby Changing Station in both RR.
- c. REVISE Ground Floor Plan Layout.
- d. REVISE Open Office A017 Casework Layout.

1.19 A402 ENLARGED PLANS AND INTERIOR ELEVATIONS

- a. DELETE Wall Shelving in Open Office.
- b. ADD Plan Notes.

1.20 A403 ENLARGED PLANS AND INTERIOR ELEVATIONS

- a. REVISE Open Office Configuration and Entry.
- b. RELOCATE FEC.
- c. ADD Plan Notes.

1.21 A501 INTERIOR DETAILS

- a. DELETE Casework Section J.

1.22 A601 DOOR AND WINDOW SCHEDULES, DETAILS, AND NOTES

- a. REVISE Entire Door Schedule.
- b. REVISE SF3 Tag.

1.23 A801 FINISH PLAN

- a. ADD Stair Tower Scope.
- b. REVISE Ground Floor Corridor Finish A012.
- c. ADD Ground Floor Room A128a First Floor Room Schedule.
- d. REVISE Finish Schedule Comments.
- e. REVISE Janitors A010 Floor Finish.

1.24 A804 FURNITURE PLAN (FOR REFERENCE)

- a. REVISE Open Office Furniture Layout.

PLUMBING DRAWINGS

1.25 P001 SYMBOL LEGEND AND GENERAL NOTES

- a. DELETE “Service Sink” from the plumbing schedule.

1.26 P101 GROUND FLOOR PLUMBING DEMOLITION

- a. REPLACE drawing with attached.

1.27 P102 FIRST FLOOR PLUMBING DEMOLITION

- a. REPLACE drawing with attached.

1.28 P201 GROUND FLOOR PLUMBING – DOMESTIC WATER

- a. REPLACE drawing with attached.

1.29 P202 FIRST FLOOR PLUMBING – DOMESTIC WATER

- a. REVISE SS-1 to MB-1 in the Janitors closet next to WAITING A117.

1.30 P301 GROUND FLOOR PLUMBING – SANITARY AND VENT

- a. REPLACE drawing with attached.

1.31 P302 FIRST FLOOR PLUMBING – SANITARY AND VENT

- a. REPLACE drawing with attached.

MECHANICAL DRAWINGS

1.32 M201 GROUND FLOOR HVAC

- a. REPLACE drawing with attached.

1.33 M202 – FIRST FLOOR HVAC

- a. REPLACE drawing with attached.

1.34 M401 – MECHANICAL SCHEDULES

- a. ADD “Provide SSHP-1 with a condensate pump” note to Split System Heat Pump Schedule.

ELECTRICAL DRAWINGS

1.35 E101 – GROUND FLOOR ELECTRICAL DEMOLITION

- a. REPLACE drawing with attached.

1.36 E102 – FIRST FLOOR ELECTRICAL DEMOLITION

- a. REPLACE drawing with attached.

1.37 E201 – GROUND FLOOR LIGHTING

- a. REPLACE drawing with attached.

1.38 E202 – FIRST FLOOR LIGHTING

- a. REPLACE drawing with attached.

1.39 E301 – GROUND FLOOR POWER

- a. REPLACE drawing with attached.

1.40 E302 – FIRST FLOOR POWER

- a. REPLACE drawing with attached.

1.41 E401 – GROUND FLOOR SYSTEMS

- a. REPLACE drawing with attached.

1.42 E402 – FIRST FLOOR SYSTEMS

- a. REPLACE drawing with attached.

1.43 E501 – DETAILS

- a. REPLACE drawing with attached.

ATTACHMENTS:

Pre-Bid Meeting Agenda and Sign-In Sheets

Site Visit Sign-In Sheet

Section 012300 – ALTERNATES

Section 080671 – DOOR HARDWARE SCHEDULE

Section 087100 – DOOR HARDWARE
Section 220440 – PLUMBING FIXTURES & EQUIPMENT
Section 260530 – TELECOMMUNICATIONS ROUGH-IN
Section 260534 – SURFACE RACEWAYS
Section 260620 – SCHEDULES FOR ELEC DISTRIBUTION EQUIPMENT
Section 281500 – INTEGRATED ACCESS CONTROL HARDWARE DEVICES
Drawing A012 CODE PLAN – FIRST FLOOR
Drawing A032 DEMOLITION PLAN
Drawing A101 FLOOR PLAN
Drawing A111 REFLECTED CEILING PLAN
Drawing A401 ENLARGED PLANS & INTERIOR ELEVATIONS
Drawing A402 ENLARGED PLANS & INTERIOR ELEVATIONS
Drawing A403 ENLARGED PLANS & INTERIOR ELEVATIONS
Drawing A501 INTERIOR DETAILS
Drawing A601 DOOR AND WINDOW SCHEDULES, DETAILS, AND NOTES
Drawing A801 FINISH PLAN
Drawing A804 FURNITURE PLAN (FOR REFERENCE)
Drawing P101 GROUND FLOOR PLUMBING DEMOLITION
Drawing P102 FIRST FLOOR PLUMBING DEMOLITION
Drawing P201 GROUND FLOOR PLUMBING – DOMESTIC WATER
Drawing P301 GROUND FLOOR PLUMBING – SANITARY AND VENT
Drawing P302 FIRST FLOOR PLUMBING – SANITARY AND VENT
Drawing M201 GROUND FLOOR HVAC
Drawing M202 FIRST FLOOR HVAC
Drawing E101 GROUND FLOOR ELECTRICAL DEMOLITION
Drawing E102 FIRST FLOOR ELECTRICAL DEMOLITION
Drawing E201 GROUND FLOOR LIGHTING
Drawing E202 FIRST FLOOR LIGHTING
Drawing E301 GROUND FLOOR POWER
Drawing E302 FIRST FLOOR POWER
Drawing E401 GROUND FLOOR SYSTEMS
Drawing E402 FIRST FLOOR SYSTEMS
Drawing E501 ELECTRICAL DETAILS

COUNTY OF LEBANON
LEBANON COUNTY MUNICIPAL BUILDING – PHASE II RENOVATIONS
Pre-Bid Meeting Agenda
July 9, 2026

1. SIGN-IN and INTRODUCTIONS:

Owner:	County of Lebanon
Architect:	Beers + Hoffman Architecture
Engineer:	Moore Engineering Company
Owner's Representative:	Fidevia
Contractor Attendees:	Refer to Sign-in Sheets

2. PROJECT SCOPE: The Work generally involves renovations to the District Attorney and Election Services office areas within the Lebanon County Municipal Building.

3. PRE-BID RFIs: Provide technical questions during bidding via the "Messages/Vendor Discussions" feature within PennBid no later than **Wednesday, July 29, 2026, at 5:00 PM.**

4. ADDENDA: Addenda will be issued via PennBid. Contractors must acknowledge the receipt of all issued Addenda under "Questions/Bidder Acknowledgements" on PennBid.

5. BID REQUIREMENTS: Contractors must include the following documents with Bids:

- a. Bid Bond
- b. Contractor's Qualification Statement (AIA A305)
- c. Non-Collusion Affidavit
- d. Supplemental Allowance and Unit Price Form

6. BID DUE DATE: Bids will be received electronically via PennBid until **1:00 PM on Thursday, August 6, 2026.** Bids will be opened via PennBid and the results made available on PennBid.

7. PROJECT SCHEDULE:

- a. Anticipated Notice to Proceed: On or about the week of September 7, 2026
- b. Substantial Completion of Project: March 26, 2027
- c. Final Completion (Including Punch List): April 23, 2027

8. CLEARANCES: Before commencing the Work, Contractor shall supply the Owner with the name, company, job title, email address, criminal history report and child abuse clearance, including the Pennsylvania State Police Criminal Background Check and Pennsylvania Child Abuse History Clearance, for all employees, agents and subcontractors who will be on the Owner's property. The original clearances must be provided one (1) week prior to each employee, agent or subcontractor coming on the Owner's property. All such clearances shall be dated no earlier than one (1) year prior to the date of presentation to the Owner.

9. ADDITIONAL SITE VISIT: A site visit will be held on **Tuesday, July 14, 2026, at 1:00 PM.** To register, contact Heather Crownover at hcrownover@fidevia.com or 717-625-3433. All bidders must attend the Pre-bid Meeting or the site visit on Tuesday, July 14, 2026. Because of abatement work in the areas to be renovated, site visits cannot be scheduled after Tuesday, July 14, 2026.

10. CONTRACTOR QUESTIONS / SITE WALK-THROUGH

In response to questions from contractors related to cutting and patching and the provision of dumpsters by the GC, responsibilities will be clarified by addendum, as applicable.

COUNTY OF LEBANON

LEBANON COUNTY MUNICIPAL BUILDING – PHASE II RENOVATIONS

Pre-Bid Meeting Sign-In Sheet

07/09/26

Name/Signature	Company	Trade	Phone Number	Email
DAVID JONES	Cresswell Bros. B.C. Inc.	G.C.	570-385-2393	djcresswell@comcast.net
CHUCK HORN	G.S.M.	MC PC	717-665-0270	CHORN@GSRBconspec2MFElttdw.com
Zoe Menzel	Sus Inc.	HVAC/ Elec	717-866/6643	office@sasinc.us
Jon Bellemore	Frank Construction	GC	717 969 6202	JBellemore@frankconstruction.com
Brad Painter	McCarty & Son Inc	Elect	717-626-9580	BMcCarty@deJazzd.com
Jonathan Collins	Hinsworth	HVAC/Plumb	717-	Jonathan.Collins@hinsworth.com
Phil Eby	Ames Const. Inc	GC	717-278-1963	peby@amesgc.com
Alex Sakal	SSM Industries	HVAC/Plumb	718-933-1622	asakal@ssmi.biz
Andy Foy	Myco Mechanical Inc	HC/PC	267-382-0267	estimating@mycomechanical.com
Mike Vottero	NCI	GC	4847092416	estimating@NCI2TD.com

Pre-Bid Meeting Sign-In Sheet
07/09/26

[illegible]

07/09/26

[illegible]

COUNTY OF LEBANON
LEBANON COUNTY MUNICIPAL BUILDING – PHASE II RENOVATIONS
Site Visit Registration
07/14/26

Name	Company	Trade	Phone Number	Email
Eric Neiswinter	AH Moyer	MC/PC	717-866-2103	eneiswinter@ahmoyer.com
Jack Ebert	DK Construction Services	GC	215-527-6872	jack.ajacg@gmail.com
Menachem Fastow	Crown Field Services	GC	201-477-0573	menachemf@crownfieldservices.net
Ross Stine	Greenstar Group	GC	717-808-4986	rdstine@greenstargrp.com
Josh Shepps	MidState Mechanical & Electrical	MC/PC/EC	717-638-6607	Josh.Shepps@midstateme.com
John Struble	Caldwell, Heckles & Egan	GC	717-468-7933	JStruble@cheinc.com
Paul Saber	H&P Construction	GC	570-373-1605	psaber@hpconstruction.net
Ryan Eckardt	Hosler Enterprise	MC/PC	570-599-4048	ryan@hoslerenterprise.com

SECTION 012300 – ALTERNATES (ADDENDUM NO. 1)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

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

1.2 SUMMARY:

- A. This Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS:

- A. Alternate - An amount proposed by Bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems or installation methods described in the Contract Documents.

- 1. The cost or credit for each Alternate is the net addition to or deduction from the Contract Sum to incorporate the Alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES:

- A. Coordination - Modify or adjust affected adjacent work as necessary to completely integrate work of the Alternate into the Project.

- 1. Include as part of each Alternate, miscellaneous devices, accessory objects and similar items reasonably inferable to be part of the Alternate.

- B. Execute accepted Alternates under the same conditions as other work of the Contract.

- C. Schedule - A Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each Alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES - GENERAL CONSTRUCTION (ADDENDUM NO. 1):

- A. **Alternate No. GC-1: State the amount to be added to or deducted from the Base Bid for all work (labor and materials) related to providing rated ceilings in lieu of fireproofing spray.**

3.2 SCHEDULE OF ALTERNATES - ELECTRICAL CONSTRUCTION:

- B. Alternate No. EC-1: Replace the existing eighteen (18) space, 120/208V, 3P, 4W panelboard located in the first floor IT Services space (A127). The panel shall be replaced with a new thirty (30) space, 120/208V, 3P, 4W panelboard. Refer to section 260620 for associated equipment ratings/capacities.

END OF SECTION

SECTION 080671 – DOOR HARDWARE SCHEDULE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section references specification sections relating to commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Sliding Doors.
 - 3. Other doors to the extent indicated.
- B. Commercial door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical and access control door hardware.
 - 3. Electromechanical and access control door hardware power supplies, back-ups and surge protection.
 - 4. Automatic operators.
 - 5. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 08 Section “Door Hardware”.
 - 2. Division 28 Section “Integrated Access Control Hardware Devices”.
- D. Codes and References: Comply with the version adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.
 - 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: Reference Related Sections for requirements regarding compliance with applicable industry standards.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 - 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner to approve submitted keying schedule prior to the ordering of permanent cylinders.
- D. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the hardware and their nearest service

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representatives. The final copies delivered after completion of the installation test to include "as built" modifications made during installation, checkout, and acceptance.

- F. Warranties and Maintenance: Special warranties and maintenance agreements specified in the Related Sections.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.5 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

1.6 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. Refer to "PART 3 – EXECUTION" for required specification sections.

PART 3 - EXECUTION

3.1 DOOR HARDWARE SETS

- A. The door hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a

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hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.
 2. The supplier is responsible for handling and sizing all products.
 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Products listed in the hardware sets shall be supplied by and in accordance with the requirements described in the specification section as noted for each item.
1. Section 08 71 00 – Door Hardware.
 2. Section 28 15 00 – Access Control Hardware Devices.
- C. Manufacturer's Abbreviations:
1. GS - ASSA ABLOY Glass Solutions
 2. MK - McKinney
 3. MR - Markar
 4. PE - Pemko
 5. NO - Norton Rixson
 6. RO - Rockwood
 7. SU - Securitron
 8. RU - Corbin Russwin
 9. SA - SARGENT
 10. OT - Other

Hardware Sets

Set: 1.0

Doors: [A001a](#)

2 Continuous Hinge	FM300	630	MR 087100
2 Surface Vert Rod Exit, Exit Only	PED5401 A EO M55	630	RU 087100
2 Surface Closer w/ Stop	DC6210 A4	689	RU 087100
2 Kick Plate	K1050 10" high CSK BEV	US32D	RO 087100
1 Astragal	S771x6BL		PE 087100

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1 Gasketing S88BL PE 087100

Set: 2.0

Doors: A001, A001b

6 Hinge, Heavy Wt, Int	T4A3786 [NRP]	US26D MK 087100
2 Self Latching Bolt	2845	US26D RO 087100
2 Dust Proof Strike	570	US26D RO 087100
1 Mortise Exit Device	PED5610 A N9M10PT	630 RU 087100
1 Coordinator	2600 Series	Black RO 087100
2 Heavy Surf OH Stop	9-_36	652 NO 087100
2 Surface Closer	DC6200 A10 [OR] DC6210 A3 (Arm/Mount to Suit)	689 RU 087100
2 Kick Plate	K1050 10" high CSK BEV	US32D RO 087100
1 Astragal	S771x6BL	PE 087100
1 Gasketing	S88BL	PE 087100

Notes: ***Where existing doors and/or frames are to remain - field verify that the existing door and/or frame conditions are able to accommodate the above hardware items. GC and supplier to verify all existing conditions before pricing and releasing any materials for fabrication.***

Set: 3.0

Doors: A001c

3 Hinge, Heavy Wt, Int	T4A3786 [NRP]	US26D MK 087100
1 Rim Exit Device	PED5210 A N910PT	630 RU 087100
1 Surface Closer w/ Stop	DC6210 A4	689 RU 087100
1 Kick Plate	K1050 10" high CSK BEV	US32D RO 087100
1 Gasketing	S88BL	PE 087100

Notes: ***Where existing doors and/or frames are to remain - field verify that the existing door and/or frame conditions are able to accommodate the above hardware items. GC and supplier to verify all existing conditions before pricing and releasing any materials for fabrication.***

Set: 4.0

Doors: A012b, A102b

3 Hinge, Heavy Wt, Int	T4A3786 [NRP]	US26D MK 087100
1 Rim Exit Device	PED5210 A N910PT	630 RU 087100
1 Heavy Surf OH Stop	9-_36	652 NO 087100
1 Surface Closer	DC6200 A10 [OR] DC6210 A3	689 RU 087100

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	(Arm/Mount to Suit)			
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1 Gasketing	S88BL		PE	087100

Notes: ***Where existing doors and/or frames are to remain - field verify that the existing door and/or frame conditions are able to accommodate the above hardware items. GC and supplier to verify all existing conditions before pricing and releasing any materials for fabrication.***

Set: 5.0

Doors: [A102a](#), [A114](#)

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100	
1 Electric Power Transfer	EL-CEPT	630	SU	087100	⚡
1 Access Control Cyl Lock	CLX33605-SN200 NZD CT6R	626	RU	087100	⚡
1 Permanent Core	To Match Existing CR System	626	RU	087100	
1 Surface Closer	DC6200 A10 [OR] DC6210 A3 (Arm/Mount to Suit)	689	RU	087100	
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
1 Wall/Floor Stop	409 [OR] 441	US26D	RO	087100	
3 Silencer	608-RKW/609		RO	087100	
1 Harness, Frame	QC-C1500P		MK	087100	⚡
1 Harness, Locks	QC-C__P		MK	087100	⚡
1 Power Supply	AQD/AQL Series		SU	087100	⚡
1 Wiring Diagram	Elevation and Point to Point as Specified		OT		

Notes: Theory of Operation:

- Door normally closed and secure.
- Presenting valid credential at card reader energizes lock, allowing ingress.
- In the event of power failure, door remains closed and secure.
- Manual key override provided.
- DPS and REX integrated into lockset.
- Free egress allowed at all times.

Set: 6.0

Doors: [A005](#), [A012a](#), [A119a](#), [A119b](#)

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
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1 Electric Power Transfer	EL-CEPT	630	SU	087100	⚡
1 Access Control Cyl Lock	CLX33605-SN200 NZD CT6R	626	RU	087100	⚡
1 Permanent Core	To Match Existing CR System	626	RU	087100	
1 Surface Closer w/ Stop	DC6210 A4	689	RU	087100	
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100	
3 Silencer	608-RKW/609		RO	087100	
1 Harness, Frame	QC-C1500P		MK	087100	⚡
1 Harness, Locks	QC-C__P		MK	087100	⚡
1 Power Supply	AQD/AQL Series		SU	087100	⚡
1 Wiring Diagram	Elevation and Point to Point as Specified		OT		

Notes: ***Where existing doors and/or frames are to remain - field verify that the existing door and/or frame conditions are able to accommodate the above hardware items. GC and supplier to verify all existing conditions before pricing and releasing any materials for fabrication.***

Theory of Operation:

- Door normally closed and secure.
- Presenting valid credential at integrated card reader energizes lock, allowing ingress.
- In the event of power failure, door remains closed and secure.
- Manual key override provided.
- DPS and REX integrated into lockset.
- Free egress allowed at all times.

Set: 7.0

Doors: [A023](#)

6 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
1 Self Latching Bolt	2845	US26D	RO	087100
1 Dust Proof Strike	570	US26D	RO	087100
1 Storeroom Lock	CLX3357 NZD CT6R	626	RU	087100
1 Coordinator	2600 Series	Black	RO	087100
2 Surface Closer w/ Stop	DC6210 A4	689	RU	087100
2 Silencer	608-RKW/609		RO	087100

Set: 8.0

Doors: [A104](#), [A120](#), [A127](#)

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
1 Storeroom Lock	CLX3357 NZD CT6R	626	RU	087100
1 Permanent Core	To Match Existing CR System	626	RU	087100

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1 Surface Closer	DC6200 A10 [OR] DC6210 A3 (Arm/Mount to Suit)	689	RU	087100
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1 Wall/Floor Stop	409 [OR] 441	US26D	RO	087100
3 Silencer	608-RKW/609		RO	087100

Notes: ***Where existing doors and/or frames are to remain - field verify that the existing door and/or frame conditions are able to accommodate the above hardware items. GC and supplier to verify all existing conditions before pricing and releasing any materials for fabrication.***

Set: 9.0

Doors: A010

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
1 Storeroom Lock	CLX3357 NZD CT6R	626	RU	087100
1 Permanent Core	To Match Existing CR System	626	RU	087100
1 Surface Closer w/ Stop	DC6210 A4	689	RU	087100
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
3 Silencer	608-RKW/609		RO	087100

Notes: ***Where existing doors and/or frames are to remain - field verify that the existing door and/or frame conditions are able to accommodate the above hardware items. GC and supplier to verify all existing conditions before pricing and releasing any materials for fabrication.***

Set: 10.0

Doors: A126b

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
1 Storeroom Lock	CLX3357 NZD CT6R	626	RU	087100
1 Permanent Core	To Match Existing CR System	626	RU	087100
1 Surface OH Stop	10_36	652	NO	087100
1 Surface Closer	DC6200 A10 [OR] DC6210 A3 (Arm/Mount to Suit)	689	RU	087100
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
3 Silencer	608-RKW/609		RO	087100

Notes: ***Where existing doors and/or frames are to remain - field verify that the existing door and/or frame conditions are able to accommodate the above hardware items. GC and supplier to verify all existing conditions before pricing and releasing any materials for fabrication.***

Set: 11.0

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Doors: A003, A006, A007, A008, A015, A016, A020, A021, A022, A103, A105, A107, A111a, A115, A116, A123

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
1 Entrance Lock	CLX3351 NZD CT6R	626	RU	087100
1 Permanent Core	To Match Existing CR System	626	RU	087100
1 Wall/Floor Stop	409 [OR] 441	US26D	RO	087100
3 Silencer	608-RKW/609		RO	087100

Notes: ***Where existing doors and/or frames are to remain - field verify that the existing door and/or frame conditions are able to accommodate the above hardware items. GC and supplier to verify all existing conditions before pricing and releasing any materials for fabrication.***

Set: 12.0

Doors: A109a, A110a

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
1 Entrance Lock	CLX3351 NZD CT6R	626	RU	087100
1 Permanent Core	To Match Existing CR System	626	RU	087100
1 Concealed OH Stop	5-_36	652	NO	087100
3 Silencer	608-RKW/609		RO	087100

Notes: ***Where existing doors and/or frames are to remain - field verify that the existing door and/or frame conditions are able to accommodate the above hardware items. GC and supplier to verify all existing conditions before pricing and releasing any materials for fabrication.***

Set: 13.0

Doors: A017, A018, A106

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
1 Classroom Lock	CLX3355 NZD CT6R	626	RU	087100
1 Permanent Core	To Match Existing CR System	626	RU	087100
1 Wall/Floor Stop	409 [OR] 441	US26D	RO	087100
3 Silencer	608-RKW/609		RO	087100

Set: 14.0

Doors: A002, A004, A019, A103a, A125a, A126a

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
1 Classroom Lock	CLX3355 NZD CT6R	626	RU	087100
1 Permanent Core	To Match Existing CR System	626	RU	087100

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1 Concealed OH Stop	5-_36	652	NO	087100
3 Silencer	608-RKW/609		RO	087100

Notes: ***Where existing doors and/or frames are to remain - field verify that the existing door and/or frame conditions are able to accommodate the above hardware items. GC and supplier to verify all existing conditions before pricing and releasing any materials for fabrication.***

Set: 15.0

Doors: [A108a](#)

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
1 Classroom Lock	CLX3355 NZD CT6R	626	RU	087100
1 Permanent Core	To Match Existing CR System	626	RU	087100
1 Surface Closer	DC6200 A10 [OR] DC6210 A3 (Arm/Mount to Suit)	689	RU	087100
1 Wall/Floor Stop	409 [OR] 441	US26D	RO	087100
3 Silencer	608-RKW/609		RO	087100

Set: 16.0

Doors: [A013](#), [A014](#), [A117](#), A118, [A121a](#), [A122a](#), [A122b](#)

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
1 Classroom Lock	CLX3355 NZD CT6R	626	RU	087100
1 Permanent Core	To Match Existing CR System	626	RU	087100
1 Surface Closer w/ Stop	DC6210 A4	689	RU	087100
3 Silencer	608-RKW/609		RO	087100

Notes: ***Where existing doors and/or frames are to remain - field verify that the existing door and/or frame conditions are able to accommodate the above hardware items. GC and supplier to verify all existing conditions before pricing and releasing any materials for fabrication.***

Set: 17.0

Doors: [A113b](#)

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
1 Classroom Lock	CLX3355 NZD CT6R	626	RU	087100
1 Permanent Core	To Match Existing CR System	626	RU	087100
1 Surface OH Stop	10-_36	652	NO	087100
1 Surface Closer	DC6200 A10 [OR] DC6210 A3 (Arm/Mount to Suit)	689	RU	087100
3 Silencer	608-RKW/609		RO	087100

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Set: 18.0

Doors: A108b, A111b, A125b

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
1 Passage Latch	CLX3310 NZD	626	RU	087100
1 Wall/Floor Stop	409 [OR] 441	US26D	RO	087100
3 Silencer	608-RKW/609		RO	087100

Notes: ***Where existing doors and/or frames are to remain - field verify that the existing door and/or frame conditions are able to accommodate the above hardware items. GC and supplier to verify all existing conditions before pricing and releasing any materials for fabrication.***

Set: 19.0

Doors: A002a, A002b, A017a, A105b, A107b, A109b, A125c

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
1 Passage Latch	CLX3310 NZD	626	RU	087100
1 Concealed OH Stop	5-_36	652	NO	087100
3 Silencer	608-RKW/609		RO	087100

Notes: ***Where existing doors and/or frames are to remain - field verify that the existing door and/or frame conditions are able to accommodate the above hardware items. GC and supplier to verify all existing conditions before pricing and releasing any materials for fabrication.***

Set: 20.0

Doors: A110b

6 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
2 Half Dummy Trim	CLX3350 NZD	626	RU	087100
2 Magnetic Catch	901	ALM	RO	087100
1 Surface OH Stop	10-_36	652	NO	087100
1 Wall/Floor Stop	409 [OR] 441	US26D	RO	087100
2 Silencer	608-RKW/609		RO	087100

Set: 21.0

Doors: A009, A011

3 Hinge, Full Mortise	TA2714-MCK [NRP-STD]	US26D	MK	087100
1 Heavy Duty Push/Pull	111x73C/73CL	US32D	RO	087100
1 Surface Closer	DC6200 A10 [OR] DC6210 A3	689	RU	087100

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	(Arm/Mount to Suit)			
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO	087100
1 Wall/Floor Stop	409 [OR] 441	US26D	RO	087100
1 Gasketing	S88BL		PE	087100

Notes: ***Where existing doors and/or frames are to remain - field verify that the existing door and/or frame conditions are able to accommodate the above hardware items. GC and supplier to verify all existing conditions before pricing and releasing any materials for fabrication.***

Set: 22.0

Doors: A113a, A124, A126d

1 Existing Hardware	To Remain	OT
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END OF SECTION 080671

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Sliding doors.
 - 3. Other doors to the extent indicated.
- B. Door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical door hardware.
 - 3. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 01 Section "General Conditions".
 - 2. Division 06 Section "Rough Carpentry".
 - 3. Division 06 Section "Finish Carpentry".
 - 4. Division 08 Section "Operations and Maintenance".
 - 5. Division 08 Section "Hollow Metal Doors and Frames".
 - 6. Division 08 Section "Flush Wood Doors".
 - 7. Division 08 Section "Aluminum-Framed Entrances and Storefronts".
 - 8. Division 26 Section "Electrical"
 - 9. Division 28 Section "Integrated Access Control Hardware Devices".
- D. Codes and References: Comply with the version adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.
 - 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.

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- E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Shop Drawings: Details of electrified access control hardware indicating the following:

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1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
 - a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
 - b. Complete (risers, point-to-point) access control system block wiring diagrams.
 - c. Wiring instructions for each electronic component scheduled herein.
 2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
- D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- E. Informational Submittals:
1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.4 CLOSEOUT SUBMITTALS

- A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.5 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that

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indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

- E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
 - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
 - 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
- F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.
 - 4. Installation of permanent keys, cylinder cores and software.
 - 5. Address and requirements for delivery of keys.
- H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
 - 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
 - 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
 - 3. Review sequence of operation narratives for each unique access controlled opening.
 - 4. Review and finalize construction schedule and verify availability of materials.
 - 5. Review the required inspecting, testing, commissioning, and demonstration procedures
- I. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

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1.6 DELIVERY, STORAGE AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.7 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.
- C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.8 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
 - 1. Structural failures including excessive deflection, cracking, or breakage.
 - 2. Faulty operation of the hardware.
 - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 4. Electrical component defects and failures within the systems operation.
- C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Hardware shall not have any visible manufacturer names on exposed materials, except cylinders, when the door is in a closed position.

2.2 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:
 - a. Two Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
 - c. Four Hinges: For doors with heights 91 to 120 inches.
 - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
 - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
4. Hinge Options: Comply with the following:
 - a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors.
5. Manufacturers:
 - a. Hager Companies (HA) - BB Series, 5-knuckle.
 - b. McKinney (MK) - TA/T4A Series, 5-knuckle.

2.3 CONTINUOUS HINGES

- A. Pin and Barrel Continuous Hinges: ANSI/BHMA A156.26 Grade 1-600 pin and barrel continuous hinges with minimum 14 gauge Type 304 stainless steel hinge leaves, concealed

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stainless pin, and twin self-lubricated nylon bearings at each knuckle separation. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Manufacturers:

- a. Markar Products; ASSA ABLOY Architectural Door Accessories (MR).

2.4 POWER TRANSFER DEVICES

- A. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:

- a. Securitron (SU) - EL-CEPT Series.

- B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

1. Provide one each of the following tools as part of the base bid contract:

- a. McKinney (MK) - Electrical Connecting Kit: QC-R001.
b. McKinney (MK) - Connector Hand Tool: QC-R003.

2. Manufacturers:

- a. McKinney (MK) - QC-C Series.

2.5 DOOR OPERATING TRIM

- A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.

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4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
5. Manufacturers:
 - a. Rockwood (RO).
- B. Coordinators: ANSI/BHMA A156.3 door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.
 1. Manufacturers:
 - a. Rockwood (RO).
- C. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
 1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
 2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
 3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
 4. Pulls shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
 5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
 6. Manufacturers:
 - a. Rockwood (RO).

2.6 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
 1. Manufacturers:
 - a. Match Existing, Field Verify.
- B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
 1. Threaded mortise cylinders with rings and cams to suit hardware application.
 2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
 3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.

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4. Tubular deadlocks and other auxiliary locks.
 5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
 6. Keyway: Match Facility Standard.
- C. Small Format Interchangeable Cores: Provide small format interchangeable cores (SFIC) as specified, core insert, removable by use of a special key; usable with other manufacturers' cylinders.
- D. Large Format Interchangeable Cores: Provide removable cores (LFIC) as specified, core insert, removable by use of a special key, and for use with only the core manufacturer's cylinder and door hardware.
- E. Keying System: Each type of lock and cylinders to be factory keyed.
1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
 3. Existing System: Field verify and key cylinders to match Owner's existing system.
- F. Key Quantity: Provide the following minimum number of keys:
1. Change Keys per Cylinder: Two (2)
 2. Master Keys (per Master Key Level/Group): Five (5).
 3. Construction Control Keys (where required): Two (2).
 4. Permanent Control Keys (where required): Two (2).
- G. Construction Keying: Provide temporary keyed construction cores.
- H. Key Registration List (Bitting List):
1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
 2. Provide transcript list in writing or electronic file as directed by the Owner.

2.7 CYLINDRICAL LOCKS AND LATCHING DEVICES

- A. Cylindrical Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed cylindrical locksets. Listed manufacturers shall meet all functions and features as specified herein.
1. Provide locksets with functions and features as follows:
 - a. Meets ANSI/BHMA A156.41 for single motion egress.
 - b. Where required by code, provide knurling or abrasive coating on all levers leading to hazardous areas.
 - c. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies with levers that meet A117.1 Accessibility Code.

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- d. Exceeds ANSI/BHMA A156.2 requirements by 2.6 times for 3,100 in-lb. abusive locked lever torque with no entry while maintaining egress.
 - e. Exceeds ANSI/BHMA A156.2 requirements by 8 times for 1,600 lbs. offset lever pull with no entry for protection against attacks.
 - f. Exceeds ANSI/BHMA A156.3 requirements by 2 times for latch retraction with 100 lb. preload while maintaining operation in warped doors.
 - g. Exceeds ANSI/BHMA A156.3 requirements by 20 times for no access with minimum 100 vertical impacts for protection against vandalism attempts.
 - h. Independent return springs allow lock to exceed ANSI/BHMA A156.2 Grade 1 cycle requirements without lever sag.
 - i. Ten-year limited warranty for mechanical functions.
2. Manufacturers:
 - a. Corbin Russwin Hardware (RU) - CLX3300 Series.
 - b. No Substitution.

2.8 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
- B. Standards: Comply with the following:
 1. Strikes for Mortise Locks and Latches: BHMA A156.13.
 2. Strikes for Bored Locks and Latches: BHMA A156.2.
 3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
 4. Dustproof Strikes: BHMA A156.16.

2.9 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
 1. Exit devices shall have a five-year warranty.
 2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.

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3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
 4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
 5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
 6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
 - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
 - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
 7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
 8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
 9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
 10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
 11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.
1. Provide exit devices with functions and features as follows:
 - a. Where required by code, provide knurling or abrasive coating on all levers leading to hazardous areas.
 - b. Meets UL and CUL Standard 10C Positive Pressure, Fire Test of Door Assemblies with levers that meet A117.1 Accessibility Code.
 - c. No catch points: addition of applied deflectors or other added components are not allowed.
 - d. No visible plastic.
 - e. Heavy duty end caps with flush and overlapping options made of stainless steel, brass, or bronze with architectural finishes.
 - f. Constructed of all stainless steel.
 - g. Stainless steel pullman type latch with deadlock feature.
 - h. Narrow or wide style exterior trim as specified in the hardware sets.
 - i. Center case adjustability on concealed vertical rod exit devices; single operation with hex key individually adjusts top or bottom latches. No retainer screws or clips required to maintain adjustment.
 - j. Ten-year limited warranty for mechanical features.

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2. Manufacturers:

- a. Corbin Russwin Hardware (RU) - PED4000 / PED5000 Series.
- b. No Substitution.

2.10 SURFACE DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

- 1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
- 2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
- 3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
- 4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
- 5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
- 6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard..

1. Manufacturers:

- a. Corbin Russwin Hardware (RU) - DC6000 Series.
- b. No Substitution.

2.11 ARCHITECTURAL TRIM AND ACCESSORIES

A. Door, Frame and Wall Protective Trim: ANSI/BHMA A156.6, protective products as specified in the hardware sets. Door protection plates shall be not more than 2" less than door width on stop side and 1" less door width on the pull side or on stop side of pairs of doors. Listed manufacturers shall meet all functions and features as specified herein.

1. Provide protective trim with functions and features as follows:

- a. Meets ADA requirements for smooth bottom door surfaces.

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- b. UL Classified options for use on fire-rated doors up to 3 hours.
- c. Fabricated from stainless steel, brass, bronze, aluminum, or high-impact plastic.
- d. Available in a variety of sizes, finishes, and profiles to suit aesthetic and functional requirements.
- e. Designed to protect doors, frames, and adjacent walls from damage due to impact, abrasion, or traffic.
- f. Fasteners included; adhesive-backed options available for select models.
- g. Ten-year limited warranty.

2. Manufacturers:

- a. Rockwood (RO).

2.12 DOOR STOPS AND HOLDERS

- A. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

- a. Rockwood (RO).

- B. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

1. Manufacturers:

- a. Norton Rixson (NO).

2.13 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

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- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
 - 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
 - 1. Pemko (PE).

2.14 ELECTRONIC ACCESSORIES

- A. Switching Power Supplies: Provide the least number of power supplies at the appropriate amperage level sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.
 - 1. Power supplies shall meet all functions and features as specified herein.
 - a. UL listed dual voltage 12 or 24 VDC field selectable continuous output.
 - b. Tolerates brownout or overvoltage input $\pm 15\%$ of nominal voltage.
 - c. Thermal shutdown protection with auto restart.
 - d. Circuit breaker protection against overcurrent and reverse battery faults.
 - e. Integrated battery charging circuit to prevent overvoltage on locking devices.
 - f. Available with a single relay fire trigger or individually triggered relayed outputs.
 - g. Monitoring options as specified.
 - 2. Manufacturers:
 - a. Securitron (SU) - AQD Series.
- B. Intelligent Switching Power Supplies: Provide the least number of power supplies at the appropriate amperage level sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.
 - 1. Manufacturers:
 - a. Securitron (SU) - AQL Series.

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2.15 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.16 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
 - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Paint prime coated mullions to match frames.

- C. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
 - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
 - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- D. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- E. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
- F. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- G. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 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.

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3.6 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

- A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
 - 1. Quantities listed are for each pair of doors, or for each single door.
 - 2. The supplier is responsible for handing and sizing all products.
 - 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
 - 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.
- B. Refer to Section 080671, Door Hardware Sets, for hardware sets.

END OF SECTION 087100

SECTION 220440 - PLUMBING FIXTURES & EQUIPMENT

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Sinks
- B. Water Closets
- C. Urinals
- D. Lavatories
- E. Mop Basins
- F. Electric Water Coolers
- G. Carriers

1.2 SUBMITTALS

- A. Submit in accordance with provisions of Section 220010.
- B. Product Data: Provide catalogue illustrations of fixtures, sizes, rough-in dimensions, utility sizes, trim, and finishes.

PART 2 - PRODUCTS

2.1 LAVATORY (LV-1)

- A. Furnish and install wall hung Zurn Lavatory Model Z5350. Unit shall be vitreous china with front overflow, back and side splash shields, 19" x 17" bowl and faucet holes on 4" centers suitable for concealed arms. Provide a Carrier faucet. Unit shall be Zurn Model Z86100-XL single handle ADA metering faucet with 0.5 GPM vandal-proof aerator, back checks on supplies, strainer, ADA compliant, trim-plate. Furnish and install with thermostatic mixing valve meeting ASSE 1070.

2.2 SINK (SK-1)

- A. Furnish and install Elkay stainless steel compartment Lustertone Sink Model #LRAD2521 (5-1/2" deep ADA) with 3 holes on 4" center, (5-1/2" deep ADA). Faucet shall be Delta #26C3945 cast deck mount faucet with 3" centers, 3 lever blade handles, heavy duty 6" gooseneck spout, aerator and 1.5 gpm flow restrictor, sink shall include drain with strainer and tailpiece, unit shall be supplied with McGuire #169 flexible supply pipes and McGuire #8872 adjustable P-trap. Installation shall be ADA compliant.

2.3 HANDICAPPED WATER CLOSET (WC-1, WC-2)

- A. Furnish and install Zurn Floor Mounted Top Spud Elongated Toilet Model Z5655-BWL (WC-2) and Z5665-BWL (WC-1). Units shall be vitreous china with siphon jet action, elongated bowl, 1-1/2" top spud, bolt caps, and be able to operate in the range of 1.28 gpf to 1.6 gpf. Unit shall be supplied with Church #5321.112 open front seat and exposed manual flush Zurn Model #Z6200-PL-WS1 – 1.6 flush valve. Water Closet WC-2 shall be standard height non-ADA Compliant. Water Closet WC-1 shall be ADA Compliant.

2.4 URINAL (UR-1, UR-2)

- A. Furnish and install wall mounted urinal. Unit shall be Zurn Model Z5755-U with Zurn Model #Z6203PL-WS1 flush valve and wall hanger. Mount at height as shown on Architectural Drawings. Urinal UR-2 shall be standard height. Urinal UR-1 shall be ADA Compliant.

2.5 WATER COOLER (EWC-1)

- A. Furnish and install wall hung bi-level Halsey Taylor Barrier-Free Water Cooler(s) Model HTHBHVR8BL with capacity to cool at least 8 gph of water entering at 80°F and leaving at 50°F with room temperature of 90°F. Unit shall have built-in pressure regulator and solenoid valve controlled by a front push-button. Cooling tank shall be storage type with capacity of at least 2 pints and be vented, red brass with copper refrigerant coil bonded to exterior and hot-tin dipped after assembly. The refrigerant flow shall be controlled by a capillary tube. The temperature shall be controlled by an adjustable thermostat. Unit shall be furnished and installed with bottle filling station mounted integral to water cooler.
- B. The entire cooler shall be warranted for 5 years. Furnish in stainless steel finish. Entire unit shall be "lead-free". Unit shall meet ADA requirements. Mount at height per Architectural drawings.
- C. Water coolers shall be piped with inline water filter sized for unit. Install filter in accessible location.
- D. Furnish and install with Model #98324C Cane Apron.

~~2.6 SERVICE SINK (SS-1)~~

- ~~A. Service sink shall be American Standard Akron Model 7695.008, enameled cast iron, (2) holes on 8" centers, wall hanger, rim guard, 3" Model 7798.030 cast iron P-trap with faucet Model 8341.076 exposed yoke wall mount utility faucet with vacuum breaker and stops in shank. (Addendum 1)~~

2.7 MOP BASIN (MB-1)

- A. Mop receptor shall be Model TSB3000 corner as manufactured by Fiat. Mop receptor shall be 24" x 24" x 12" (MB-1) terrazzo, floor mounted, with stainless steel shoulder caps. The drain body shall be factory installed stainless steel No. 302 with combination strainer and lint basket. Faucet shall be American Standard Model 8354.112 with integral check valves. Contractor shall install drain with trap.

- B. Furnish and install with Model #832-AA hose and hose bracket, #889-CC mop hanger and #E-77-AA vinyl bumper guard. Install with additional Faucet SF-1 at fixture.

2.8 SERVICE FAUCET (SF-1)

- A. Furnish and install single faucet: American Standard Model 8354.112 with a 3/4" hose outlet, vacuum breaker, integral check valves, chrome finish and atmospheric backflow preventer.
- B. Field coordinate with Owner exact mounting height and location of faucet for use with cleaning chemical dispensing unit.

2.9 ACCEPTABLE SUBSTITUTES:

- A. Water Closets, Urinals, Lavatories – American Standard, Kohler, Zurn
- B. Faucets – American Standard, Chicago Faucets, Speakman, Moen Commercial, Delta Commercial, T&S Brass
- C. Flush Valves – Sloan, Zurn
- D. Coolers – Elkay, Oasis, Halsey Taylor
- E. Seats – Beneke, Kohler, American Standard, Zurn
- F. Sinks – Kohler, Just

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that walls and floor finishes are prepared and ready for installation of fixtures.
- B. Verify that electric power is available and of the correct characteristics.

3.2 PREPARATION

- A. Rough-in fixture piping connections in accordance with minimum sizes indicated in fixture rough-in schedule for particular fixtures.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install each fixture with trap, easily removable for servicing and cleaning.
- C. Provide chrome plated rigid or flexible supplies to fixtures with stops, reducers, and escutcheons.
- D. Install components level and plumb.

- E. Install and secure fixtures in place.
- F. Seal fixtures to wall and floor surfaces with sealant as specified in Section 07900, color to match fixture.
- G. Solidly attach water closets to floor with lag screws.

3.4 INTERFACE WITH OTHER PRODUCTS

- A. Review millwork shop drawings. Confirm location and size of fixtures and openings before rough-in and installation.

3.5 ADJUSTING

- A. Adjust stops or valves for intended water flow rate to fixtures without splashing, noise, or overflow.

3.6 CLEANING

- A. At completion clean plumbing fixtures and equipment.

3.7 PROTECTION OF FINISHED WORK

- A. Protect finished Work.
- B. Do not permit use of fixtures.

3.8 FIXTURE HEIGHTS

- A. Install fixtures to heights above finished floor as indicated on the Architectural Drawings.

END OF SECTION 220440

SECTION 260530 – TELECOMMUNICATIONS ROUGH-IN

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Conduit
- B. Boxes
- C. Backboards
- D. ~~Corrugated Communications Duct (Innerduct)~~ **(Addendum 1)**

1.2 SYSTEM REQUIREMENTS

- A. Provide service entrance conduits as shown on the plans.
- B. Provide a complete raceway system for future cabling installed under a separate contract. Include the following:
 - 1. Wall Boxes
 - 2. Conduits between boxes and accessible ceiling cavity
 - 3. Conduits between floors and walls
 - 4. Conduits between corridor and rooms with wall boxes

1.3 COORDINATION

- A. Coordinate work of this section with all cables provided under another contract.
 - 1. Adjust arrangements and locations of backboards and conduits to accommodate and optimize arrangement and space requirements. Review revised layouts with Engineer before proceeding with work.

1.4 WARRANTY

- A. Provide the warranty specified in Section 260010.

PART 2 - PRODUCTS

2.1 CONDUIT

- A. Provide all conduit required by the project conditions.
- B. Provide conduit bushings on all conduit.

2.2 BOXES

- A. Provide all boxes required by the project conditions.

2.3 BACKBOARDS

- A. AC grade southern yellow pine or fir plywood with exterior glue, 3/4" thick, size as shown or required.
- B. Paint with 1 coat of exterior wood primer both faces and all edges and 1 coat of light gray semi-gloss enamel on the front face only.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Provide 2" conduit sleeves above ceiling between corridors and rooms with wall boxes.
- B. Provide firestopping to raceway penetrations of the fire-rated floor and wall assemblies to achieve fire-resistance rating of the assembly. Firestopping materials and installation requirements are specified in Division 7.

END OF SECTION 260530

SECTION 260534 – SURFACE RACEWAYS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Surface Metal Raceways

1.2 SURFACE RACEWAY REQUIREMENTS

- A. All raceways and boxes to be recessed in existing walls where walls are fishable. Any exceptions to be approved by the Architect/Engineer before installation
- B. Surface raceway may only be used when walls are not fishable.
- C. Throughout new installations, all raceways, and boxes to be concealed in the new construction.

1.3 REFERENCES

- A. ANSI/NFPA 70 - National Electrical Code
- B. NECA (National Electrical Contractors Association) Standard of Installation.
- C. NEMA WD 6 - Wiring Device Configurations.

1.4 SUBMITTALS FOR REVIEW

- A. Submit under provisions of Section 260010.
- B. Shop Drawings: The following items shall be submitted for review and approval:
 - 1. Submittal booklet to include the following:
 - a. Reference to Specification Section.
 - b. A list of all equipment to be provided and installed.
 - c. Data sheets to indicate specific items or model numbers highlighted.
 - d. Manufacturers' installation instructions.

1.5 QUALITY ASSURANCE

- A. Perform Work in accordance with NECA Standard of Installation except for mounting heights.
- B. Maintain one copy of document on site.

1.6 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing Products specified in this Section with minimum three years documented experience.

1.7 REGULATORY REQUIREMENTS

- A. Conform to requirements of ANSI/NFPA 70.
- B. Furnish products listed and classified by Underwriters Laboratories, Inc., or a testing firm acceptable to authority having jurisdiction as suitable for purpose specified and shown.

1.8 WARRANTY

- A. Provide the warranty specified in section 260010.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. The Wiremold Company
- B. Hubbell

2.2 SURFACE METAL RACEWAY (V2400BD Series) (HBL2400BDIV Series)

- A. Materials: The raceway and all system components must be US/C Listed. The base and cover shall be manufactured of steel, finish in ivory ScuffCoat (a polyester topcoat over an ivory base) or custom colors and suitable for field repainting.
- B. Raceway: The raceway shall be a two-piece design with a base divided into two compartments of 1/3 and 2/3 the width of raceway base and snap-on-cover. Total width shall be 1.90" x 0.88" deep with a cross sectional area of 0.374 square inches for the 1/3 compartment and 0.666 square inches for the 2/3 compartment. The base and cover shall be a minimum thickness of 0.040". The raceway base shall be available in 10' lengths and the cover shall be available in 5' lengths.
- C. Fittings: A full complement of fittings must be available including, but not limited to, couplings, flat, internal, and external elbows, entrance end fittings, blank end fittings, cover clips and wire clips. The fitting covers shall be manufactured of steel and be painted with an enamel finish or a rigid plastic compound that exhibits nonflammable self-extinguishing characteristics tested to comparable specifications of UL94V-0. All fittings shall be supplied with a base where applicable.
- D. Device and Extension Boxes: Device boxes shall be available to mount standard devices and activate inserts with faceplates in single and two gang configurations. Device bases shall be available for over-the-raceway mounting feature with twist-outs that allow for access into either raceway compartment. The boxes shall be available in 2-3/4" depth and painted to match the raceway.
- E. Communication Devices and Accessories: The raceway manufacturer will provide a complete line of connectivity outlets and modular inserts for UTP/STP, Fiber Optic, Coaxial and other cabling types with faceplates and bezels to facilitate mounting. A complete line preprinted station and port identification labels, snap-in-icon buttons as well as write-on station identification labels shall be available.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install Products in accordance with manufacturer's instructions.
- B. Use flat-head screws, clips, and straps to fasten raceway channel to surfaces. Mount plumb and level.
- C. Use suitable insulating bushings and inserts at connections to outlets and corner fittings.
- D. Close ends of unused raceway openings.
- E. Ground and bond raceway under provisions of Section 260526.
- F. Do not use adhesive alone where non-metallic raceway is used.

END OF SECTION 260534

SECTION 260620 – SCHEDULES FOR ELECTRICAL DISTRIBUTION EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY

- A. This section includes the schedules for electrical distribution equipment.

1.2 SUBMITTALS FOR REVIEW

- A. Refer to the specific equipment section for submittals required.

1.3 EXTRA MATERIALS

- A. Refer to the specific equipment section for extra materials required.

1.4 MAINTENANCE MATERIALS

- A. Refer to the specific equipment section for maintenance materials required.

PART 2 - PRODUCTS

2.1 SCHEDULES FOR ELECTRICAL DISTRIBUTION EQUIPMENT

- A. Refer to Schedules attached to the following pages.

PART 3 - EXECUTION

3.1 STANDARD BRANCH CIRCUIT WIRE SIZING TABLE

A. Sizing Table:

STANDARD BRANCH CIRCUIT WIRE SIZING TABLE			
BREAKER TRIP RATING	1-POLE BREAKER	2-POLE BREAKER	3-POLE BREAKER
15-20A	2#12 + 1#12 GND IN 3/4" CONDUIT	3#12 + 1#12 GND IN 3/4" CONDUIT	4#12 + 1#12 GND IN 3/4" CONDUIT
25-30A	2#10 + 1#10 GND IN 3/4" CONDUIT	3#10 + 1#10 GND IN 3/4" CONDUIT	4#10 + 1#10 GND IN 3/4" CONDUIT
35-40A	2#8 + 1#10 GND IN 3/4" CONDUIT	3#8 + 1#10 GND IN 3/4" CONDUIT	4#8 + 1#10 GND IN 3/4" CONDUIT
45-50A	2#6 + 1#10 GND IN 3/4" CONDUIT	3#6 + 1#10 GND IN 3/4" CONDUIT	4#6 + 1#10 GND IN 1" CONDUIT
60-70A	2#4 + 1#8 GND IN 1" CONDUIT	3#4 + 1#8 GND IN 1-1/4" CONDUIT	4#4 + 1#8 GND IN 1-1/4" CONDUIT
80A	2#3 + 1#8 GND IN 1" CONDUIT	3#3 + 1#8 GND IN 1-1/4" CONDUIT	4#3 + 1#8 GND IN 1-1/4" CONDUIT
90A	N/A	3#2 + 1#8 GND IN 1-1/4" CONDUIT	4#2 + 1#8 GND IN 1-1/4" CONDUIT
100-110A	N/A	3#1 + 1#6 GND IN 1-1/2" CONDUIT	4#1 + 1#6 GND IN 1-1/2" CONDUIT

B. Table Notes:

1. Unless otherwise indicated, refer to this schedule for wire and conduit size for all circuits with identified breaker trip ratings.
2. Provide neutral conductor for 2 and 3 pole circuits as indicated above if the equipment requires a neutral.

PANEL			Bus:	70A M.C.B.	Additional Panel Notes										
6PPA			Volts:	120/208V, 3PH, 4W	Integral L3 Surge Protective Device										
			Poles:	30											
			AIC:	10,000											
			Mounting:	Surface											
CKT.	Breaker		Description	Notes	Load						Notes	Description	Breaker		CKT.
	Amp	Pole			A		B		C				Pole	Amp	
1	20	1	Receptacles - A126		0.7	1.7						SSHP-1 / CU-1 - A127	2	30	2
3	20	1	Receptacles - A127				0.7	1.7				--	--	--	4
5	20	1	Quad Receptacle - A127						0.4						6
7	20	2	SPR (L6-20R) - A127		1.0										8
9	--	--	--				1.0								10
11	20	3	2-2 Furniture System - Open Office A121a						1.9						12
13	--	--	--		1.9										14
15	--	--	--				1.9								16
17	20	3	2-2 Furniture System - Open Office A113						1.9						18
19	--	--	--		1.9										20
21	--	--	--				1.9					Spare	2	30	22
23	20	1	Spare									--	--	--	24
25	20	1	Spare									Spare	3	20	26
27	20	2	Spare									--	--	--	28
29	--	--	--									--	--	--	30
					7.2		7.2		4.2		Total Connected Load KVA: 18.6 KVA				
					Phase Totals										

PANEL NOTES	
1	Provide conductors, overcurrent device and exact placement as recommended by the TVSS manufacturer.
2	Refer to Power Riser Diagram for wire and conduit sizes.
3	Refer to Site Plan for wire and conduit sizes.
4	Provide groundfault breaker for personal protection.
5	Existing circuit breaker.
6	Provide new circuit breaker in existing panel.
7	Mark breaker in red in color with handle to lock in the on position.
8	Provide a handle to lock in the on position.
9	Provide 2#10 + 1#10 gnd in 1" conduit for voltage drop.
10	

SWITCHBOARD/DISTRIBUTION PANEL BREAKER TYPES	
T	Thermal Magnetic
TI	Thermal Magnetic with Instantaneous Trip Setting Adjustment.
E	Electronic Trip with Long Time, Short Time, Instantaneous Setting Adjustments
AERS	Arc Energy Reduction Switch per NEC 240.87
ZSI	Zone-Selective Interlocking
M	Square D electronic mission critical type breaker or equal that selectively coordinates with upstream and downstream overcurrent devices.
EP	Energy/Power Trip Unit with Long Time, Short Time, Instantaneous Setting Adjustments, Zone Selective Interlock, Breaker Status Display & Modbus Wired Communications
GF	Ground Fault Protection
ST	Shunt Trip breaker accessory
HC	Permanently fastened pad lockable breaker accessory for servicing

SECTION 281500 - INTEGRATED ACCESS CONTROL HARDWARE DEVICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes access control door hardware for the following:
 - 1. Swinging doors.
 - 2. Other doors to the extent indicated.
- B. Section includes, but is not necessarily limited to, the following for the integrated access control security and site management system:
 - 1. Electrified and Integrated Access Control Card Key Door Hardware.
- C. Related Sections:
 - 1. Division 01 Section "Sustainable Design Requirements".
 - 2. Division 01 Section "General Conditions".
 - 3. Division 01 Section "Cash Allowances".
 - 4. Division 01 Section "Product Allowances".
 - 5. Division 01 Section "Closeout Procedures".
 - 6. Division 06 Section "Rough Carpentry".
 - 7. Division 06 Section "Finish Carpentry".
 - 8. Division 08 Section "Operations and Maintenance".
 - 9. Division 08 Section "Door Schedule".
 - 10. Division 08 Section "Door Hardware Schedule".
 - 11. Division 08 Section "Hollow Metal Doors and Frames".
 - 12. Division 08 Section "Stainless Steel Doors and Frames".
 - 13. Division 08 Section "Interior Aluminum Doors and Frames".
 - 14. Division 08 Section "Flush Wood Doors".
 - 15. Division 08 Section "Clad Wood Doors".
 - 16. Division 08 Section "Stile and Rail Wood Doors".
 - 17. Division 08 Section "Wood Sliding Door Assemblies".
 - 18. Division 08 Section "Fiberglass Doors".
 - 19. Division 08 Section "Integrated Door Opening Assemblies".
 - 20. Division 08 Section "Radio-Frequency Interference Shielding Doors".
 - 21. Division 08 Section "Lead Lined Doors and Frames".
 - 22. Division 08 Section "Bullet Resistant Doors and Frame".

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23. Division 08 Section "Attack Resistant Doors and Frames."
24. Division 08 Section "Forced Entry Doors and Frames".
25. Division 08 Section "Metal Sound Control Hollow Door Assemblies".
26. Division 08 Section "Wood Sound Control Door Assemblies".
27. Division 08 Section "Wood Sliding Sound Control Door Assemblies".
28. Division 08 Section "Sanitary and Watertight Doors and Frames".
29. Division 08 Section "Blast Resistant Doors".
30. Division 08 Section "Aluminum-Framed Entrances and Storefronts".
31. Division 08 Section "All-Glass Entrances".
32. Division 08 Section "Automatic Entrances".
33. Division 08 Section "Door Hardware".
34. Division 08 Section "Automatic Door Operators".
35. Division 08 Section "Gate Hardware".
36. Division 08 Section "Detention Door Hardware".
37. Division 26 Section "Electrical"
38. Division 28 Section "Campus Integrated Access Control Hardware Devices".
39. Division 28 Section "Multi-Family Data-on-Credential Access Control Hardware Devices".
40. Division 28 Section "Intercom Entry Systems".

D. Codes and References:

1. ANSI A117.1 (1998) - Accessible and Usable Buildings and Facilities.
2. IBC - International Building Code
3. NFPA 70 (2002) - National Electrical Code.
4. NFPA 80 (1999) - Fire Doors and Windows.
5. NFPA 101 (2006) - Life Safety Code.
6. UL 294 - Access Control Systems.
7. UL 1076 - Proprietary Burglar Alarm Units and Systems.

E. Products installed but not provided under this Section include the following. Coordination to remain a requirement of this Section.

1. Security or High Security keyed cylinders, including provisions for temporary construction keying, for mechanical override at access control locking hardware to be furnished under Division 8 Section "Door Hardware".

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. System Operational Descriptions: Complete system operational narratives for the integrated access-controlled openings defining the owner's prescribed requirements for the opening functionality. Narratives include, but are not limited to, the following situations: normal secured/unsecured state of door; authorized access; authorized egress; unauthorized access; unauthorized egress; fire alarm and loss of power conditions, and interfaces with other building control systems.

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- C. Shop Drawings: Details of electrified integrated locking hardware and access control firmware, indicating the following:
 - 1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication and control of the access control system electrified hardware and firmware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
 - a. Elevation diagram of each unique access-controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
 - b. Complete (risers, point-to-point) access control system block wiring diagrams.
 - 2. Electrical Coordination: Coordinate with related Electrical Sections the voltages and wiring details required at electrically controlled and operated hardware openings.
- D. Proof of Certification: Upon request provide a copy of manufacturer(s) official certification or accreditation document indicating proof of status as a qualified and authorized provider of the primary access control components.
- E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete access control and site management installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and telephone number of the supplier/integrator providing the installation and the nearest service representatives for each item of equipment included in the system. The final copies delivered after completion of the installation test to include "as built" modifications made during installation, checkout, and acceptance.
 - 1. As-Built Drawings: During system installation, the Contractor to maintain a separate hard copy set of drawings, elevation diagrams, and wiring diagrams of the access control system to be used for record drawings. This set to be kept up to date by the Contractor with all changes and additions to the access control system accurately recorded.
- F. Warranties and Maintenance: Special warranties and maintenance agreements specified in this Section.

1.4 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum of five (5) years of documented experience in providing access control and security systems equipment and software similar to that indicated for this Project and that have a proven record of successful in-service performance.
 - 1. Software and access control systems components to have been previously and thoroughly tested together with proven installations similar in size and functionality to the design requirements indicated for this Project.
- B. Supplier Qualifications: Supplier/Dealers, verifiably authorized and in good standing with the primary product manufacturers, with a minimum of three (3) years of experience supplying integrated access control systems similar in material, design, and scope to that indicated for this

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Project and whose work has resulted in construction with a proven record of successful in-service performance.

1. ASSA ABLOY access control products are required to be supplied only through designated "Authorized Channel Partners."
 - a. List Qualified ACP Companies
- C. System Integrator Qualifications: Systems Integrators, verifiably factory trained and certified by the primary product manufacturers, with a minimum of three (3) years documented experience installing complete integrated access control systems similar in material, design, and scope to that indicated for this Project and whose work has resulted in construction with a proven record of successful in-service performance. Qualifications include, but are not necessarily limited, to the following:
 1. References: Provide a list of references for similar projects including contact name, phone number, name and type of project.
 2. Professional Staffing: Firms to have a dedicated access control systems integration department with full time, experienced professionals on staff experienced in providing on site consulting services for both electrified door hardware and integrated access control systems installations.
 3. Factory Training: Installation and service technicians are to be competent factory trained and certified personnel capable of maintaining the system.
 4. Service Center: Firms to have a service center capable of providing training, in-stock parts, and emergency maintenance and repairs at the Project site with 24-hour/7-days a week maximum response time.
- D. Installer Qualifications: Certified technicians, verifiably authorized with the primary product manufacturers for installation of IP-Enabled, Wireless, and Power-over-Ethernet Access Control products in accordance with documented instructions and NFPA 80.
 1. ASSA ABLOY access control products are required to be installed only through designated "Preferred Installers."
- E. Source Limitations: Obtain the access control door hardware, system firmware and application software specified in this Section from a single source, qualified supplier/integrator unless otherwise indicated.
 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
 2. Provide integrated access control door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
- F. Building Information Modeling (BIM) Qualifications: BIM software tools and processes are used to produce and support data integration of product and technical information used in specifications, submittals, project reviews, decision support, and quality assurance during all phases of Project design, construction, and facility management. Door and hardware schedules and the associated product data parameters are to be derived, updated, and fully integrated with the coordinated Building Information Modeling as required under Division 01.

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- G. Regulatory Requirements: Comply with NFPA 70, NFPA 80, NFPA 101 and ANSI A117.1 requirements and guidelines as directed in the model building code including, but not limited to, the following:
 - 1. Comply with NFPA 70 "National Electrical Code", including electrical components, devices, and accessories listed and labeled as defined in Article 100 by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
 - 2. Where indicated to comply with accessibility requirements, comply with Americans with Disabilities Act (ADA), "Accessibility Guidelines for Buildings and Facilities (ADAAG)," ANSI A117.1.
 - 3. Comply with NFPA 101 "Life Safety Code" for doors in a means of egress.
 - 4. Comply with NFPA 80 "Fire Doors and Windows" for fire labeled opening assemblies.
 - 5. The installed access control system shall conform to all local jurisdiction requirements.
- H. Keying Conference: Reference Division 8 Section "Door Hardware".
- I. Pre-Submittal Conference: Conduct conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier/Dealer, Systems Integrator, and Contractor to review proper methods and procedures for receiving, handling, and installing the access control system hardware. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedules.
 - 1. Inspect and discuss Division 26 electrical roughing-in and similar preparatory work performed by other trades.
 - 2. Review and verify sequence of operation descriptions for each unique access controlled opening.
 - 3. Review and finalize construction schedule and verify availability of materials.
 - 4. Review the required inspecting, testing, commissioning, and demonstration procedures.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Do not store electronic access control hardware, software or related accessories at Project site without prior authorization.
 - 1. Access control firmware and software: Where approved and directed, inventory upon receipt and store electronic access control equipment in a secure, temperature and humidity controlled environment in original manufacturer's sealed containers.
- B. Tag each item or package separately with identification related to the final Access Control Door Schedule, and include basic installation instructions with each item or package.
- C. Deliver permanent keys, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner established at the "Pre-Submittal Conference".

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1.6 COORDINATION

- A. Coordinate quantity and arrangement of assemblies with ceiling space configuration and with components occupying ceiling space, including structural members, pipes, air-distribution components, raceways, cable trays, recessed lighting fixtures, and other items.
- B. Access Control System Electrical Coordination: Coordinate the layout and installation of scheduled electrified door hardware, and related access control equipment, with required connections to source power junction boxes, power supplies, detection and monitoring hardware and fire alarm system.
 - 1. Door Hardware Interface: The card key access control system to interface and be connected to electronic door control hardware (electromechanical locks, electric strikes, magnetic locks, door position switches, other monitoring contacts, and related auxiliary control devices) as described under Division 8 "Door Hardware". Coordinate the installation and configuration of specified door hardware being monitored or controlled with the controls, software and access control hardware specified in this Section.
- C. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing electrified door hardware and access control system components. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing access control system hardware to comply with indicated requirements.
- D. Door and Frame Preparation: Related Division 08 Sections (Steel, Aluminum and Wood) doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.
- E. Building Information Modeling (BIM) Support: Utilize designated BIM software tools and obtain training needed to successfully participate in the Project BIM processes. All technical disciplines are responsible for the product data integration and data reliability of their Work into the coordinated BIM applications.

1.7 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article will not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and are in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of the installed access control system hardware and software that fails in materials or workmanship, including all related parts and labor, within specified warranty period after final testing and acceptance by the Owner. Failures include, but are not limited to, the following:
 - 1. Structural failures including excessive deflection, cracking, or breakage.
 - 2. Faulty operation of the hardware.
 - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.

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4. Electrical component defects and failures within the systems operation.
- C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.
- D. Special Warranty Periods (Electrified Access Control Door Hardware):
 1. Two years for Electrified, Wiegand Output, and IP-Enabled Access Control Door Hardware.
- E. Maintenance Support and Extended Service Agreement: Submit for Owner's consideration an optional extended Service Agreement for the installed access control system, including support for software related issues. The extended Service Agreement is considered elective and is without manufacturer's requirement stipulating mandatory coverage for owner and/or vendor system support.
 1. A published copy of this agreement to be included with the submittal package
 2. Support for the installed access control system components is provided through the vendor under a 24 hour technical assistance program.
 3. Access control and management system components are to be available on a one-day turn around time frame from the manufacturer.
 4. Primary systems manufacturer to offer and provide remote modem or internet access for direct factory support to the vendor. The factory level support to include diagnostics and troubleshooting support on systems related issues at no additional cost to the owner.
- F. Access Control Software Upgrades: Version upgrades and "fix" releases to the access control system software are available at no extra charge as long as the version of software provided under this specification remains the current manufacturer's version or for up to (2) years after a new version release.
 1. Major access control software revisions that provide new functionality to the product provided free of charge for up to one (1) year from the date of substantial completion.
 2. Access control system software is to be upgradable as may be required or as necessary, to expand and manage the owner's site or sites. Upgrades are to be offered at a published flat fee for the primary system software, with single license modules included in the primary fee structure. System upgrades offered at a costing structure based upon the original number of licensed modules issued, or on those to be purchased at a future date, are not allowed.
 3. As part of the submittal package, provide a list of available software upgrades and/or expansions modules. List to identify related costs for upgrades, or expansions to the original system, up to the next qualifying operational level.

1.8 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of the installed access control system hardware and components.
- B. Maintenance Service: Beginning at Substantial Completion, and running concurrent with the specified warranty period, provide continuous (6) months full maintenance by skilled

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employees of the Systems Integrator. Include repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door opening operation. Provide parts and supplies as used in the manufacture and installation of original products.

1.9 SCOPE OF WORK

- A. On-Line Electronic Access Control System: Furnish and install at the indicated locations the specified electrified and integrated door hardware and access control firmware and software for a completely operational access control and security site management system. System includes, but is not necessarily limited, to the following:

1. Electrified integrated card reader locks and exit hardware, permanent and temporary override cylinders, network control processors, reader controller panels, I/O monitor/control interfaces, door position switches, remote card readers, keypads, and display terminals, access cards and credentials, system application software, special tools, operating manuals, and required cabling and accessories as detailed below and listed in the Access Control Hardware Sets at the end of Part 3.
 - a. Provide the appropriate number of reader controller panels and I/O monitoring/control expansion interfaces as needed to handle the number of card readers, locking devices, door status devices, and identified alarm inputs specified in this section, and as shown on the security drawings.
 - b. Provide manufacturer approved integrated card reader locks, exit hardware, and remote mounted card readers, keypads, and display terminals that are functionally compatible with the specified access control equipment interfaces.
2. Access control system equipment to be installed in an enclosure box compatible with the specified components. This enclosure to include, but is not necessarily limited to, the network control processor, I/O monitor/control interface panels, power supplies, terminal strips, wire ducts, keyed lock cylinder, integrated outlet for A/C power, and standoffs.
 - a. Enclosure box to be located in the designated IT/Telecom room(s) with connection to local area network for communication back to the central server host.
3. Owner to provide the following:
 - a. Central server host computer, client workstations, and hardware peripherals to be from an approved, major line computer manufacturer. Specific information detailing compliance with system requirements to be included in the project submittal package as specified.
 - b. Owner will be responsible for ensuring that each computer hardware component includes the required interfaces, expansion boards, and peripherals that will be necessary to allow the system to operate as described within this specification and as indicated on the drawings.
 - c. Power Sourcing and Network Switches: Quantity as required to accommodate installed access control (and video surveillance) devices.
 - d. Network Control Processor Connections:
 - 1) LAN/Ethernet communication ports (jacks) and network interface cards as needed, CAT5e cabling from network router/switch to network control

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- processor, outlet and cover plates and/or patch cables required for network connection within each designated IT/Telecom room.
- 2) Required static IP addresses.
4. Power Supplies, including battery back up and separately fused surge protection, required for the electrified door hardware and access control equipment.
5. Installation, final configuration and commissioning of electrified door and access control system hardware, communication firmware, power supplies and related accessories.
6. System application software including installation, programming, and end user training of the access control system demonstrating operating, repair, and maintenance procedures. Include no fewer than 8 hours of on-site central server training for designated personnel (facilities maintenance, security, IT, administration) by a factory certified representative.
7. Provide manufacturer required power controllers, interface boards, and programming that may be required for approved electric latch retraction exit devices supplied under Division 08 Section "Door Hardware."
8. Electrical contractor, Division 26, to provide the following:
- a. Source power wiring (120VAC) as required for the electrified locking and access control hardware, equipment, accessories and power supplies. This includes quad outlets as required on a dedicated circuit in the designated IT/Telecom room(s) and the related conduit, stub-in, junction boxes and connectors required for the source power delivery and connections.
- b. Provide required conduit, stub-in, junction and back boxes for both the electrified locking hardware and access control equipment at each of the access controlled or monitored openings per plan drawings and specs. Supply and install conduit between each of the aforementioned devices and between the electrical junction boxes, power supplies and access control equipment located on or above the door opening.
- 1) At wall mounted remote readers, provide conduit on the secured side of the door, 36" from the finish floor and 6" from the edge of the frame, to the related power supplies and access control equipment.
- 2) At electrical hardware power transfers provide conduit on the secured side of the opening from the power transfer, thru-wire hinge, or serviceable panel location on the frame jamb to the related power supplies and access control equipment.
- c. Electrical Contractor to provide all 120VAC cabling connections and terminations from the electrical junction boxes to these electrical devices.
9. Access Control System Integrator to provide the following:
- a. Low voltage wiring (12/24VDC) and communication cabling (RS-232/RS-485) from network control processors to reader controllers, I/O monitor/control interface panels, electrified and integrated locking hardware, remote card readers, keypads, or display terminals, monitoring and signaling switches, and power supplies. Work includes related connectors, final terminations, and hook-ups required for a complete and functional access controlled opening in accordance with applicable codes and specified system operational narratives.

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10. Elevator Contractor to provide the following:
 - a. Interface or landing of interface cable onto the elevator call button will be performed by a certified elevator contractor.
 - b. Coordinate with access control systems integrator provisions for a card reader with output allowing the elevator call button to be activated. A validated card read will be required for activation.
11. Full and seamless integration of the site intrusion alarm service if applicable, with the installed site access control system software.
12. Final connections to fire alarm system, if required, by electrical and fire alarm system contractors.
13. Provide permits, submittals and approvals required by the authority having jurisdiction, prior to commencing with work.
14. Provide manufacturer required power controllers, interface boards, and programming that may be required for approved electric latch retraction exit devices supplied under Division 08 Section "Door Hardware."
15. Electrical contractor (Division 26) to provide the following:
 - a. Provide required conduit, stub-in, junction and back boxes for both the electrified locking hardware and access control equipment at each of the access controlled or monitored openings per plan drawings and specs. Supply and install conduit between each of the aforementioned devices and between the electrical junction boxes, power supplies and access control equipment located on or above the door opening.
 - 1) At off-line remote readers, provide conduit on the secured side of the door, 36" from the finish floor and 6" from the edge of the frame, to the related power supplies and access control equipment.
 - 2) At electrified hardware power transfers provide conduit on the secured side of the opening from the power transfer, thru-wire hinge, or serviceable panel location on the frame jamb to the related power supplies and access control equipment.
 - b. Electrical Contractor to provide all 120VAC cabling connections and terminations from the electrical junction boxes to these electrical devices.
16. Access Control System Supplier to provide the following:
 - a. Low voltage wiring (12/24VDC) for the electrified locking hardware, remote card readers, monitoring and signaling switches, and power supplies. Work includes related connectors, final terminations and hook-ups required for a complete and functional access-controlled opening in accordance with applicable codes and specified system operational narratives.
17. Typical System Requirements (Owner Provided): Central server host computer, client workstations, and hardware peripherals to be from an approved, major line computer manufacturer. Specific information detailing compliance with system requirements to be included in the project submittal package as specified.

PART 2 - PRODUCTS

- A. Integrated Wired Output Multi-Class Cylindrical Locks: Wiegand or Open Supervised Device Protocol (OSDP) output ANSI A156.2, Grade 1, Cylindrical Lockset with integrated card reader with or without keypad option, and request-to-exit signaling in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle trim with 1/2" deadlocking stainless steel latch. Lock is U.L listed and labeled for use on up to 3 hour fire rated openings.
1. Open architecture, hard wired platform supports centralized control of locking units with new or existing Wiegand or OSDP compatible access control systems. Inside lever handle (request-to-exit) signaling standard with door position (open/closed status) monitoring (via separately connected DPS).
 2. Integrated reader supports the following credentials:
 - a. 125kHz proximity credentials: HID, AWID, Indala, and EM4102.
 - b. 13.56 MHz proximity credentials: HID Secure Identity Object™ (SIO) on iCLASS Seos, HID iCLASS, HID iCLASS SE/SR, MIFARE Classic, DESFire EV1 and EV2.
 - c. 2.4 GHz credentials: Secure Identity Object™ (SIO) on Mobile IDs (Bluetooth Smart)
 - d. ISO14443A/B (PIV-compatible Transparent FASC-N read) available with pivCLASS variant
 - e. NFC-enabled mobile phones
 - f. PIN code only or PIN + credential with keypad option
 3. 12VDC external power supply required for reader and lock, with optional 24VDC lock solenoid. Fail safe or fail secure options.
 4. Installation requires only one cable run from the lock to the access control panel without requirements for additional proprietary lock panel interface boards or modules.
 5. Installation to include manufacturer's access control panel interface board or module where required for Wiegand or OSDP output protocol.
 6. Manufacturers:
 - a. Corbin Russwin (RU) - CL3300 SN Series.
 - b. No Substitution.

2.2 POWER SUPPLIES

- A. Switching Power Supplies: Switching Power Supplies: Provide the least number of power supplies at the appropriate amperage level sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.
1. Manufacturers:
 - a. Securitron (SU) - AQD Series.
- B. Intelligent Switching Power Supplies: Provide the least number of power supplies at the appropriate amperage level sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.

LEBANON COUNTY MUNICIPAL BUILDING - PHASE II RENOVATIONS
LEBANON, PA

1. Manufacturers:

- a. Securitron (SU) - AQL Series.

2.3 CABLES AND WIRING

- A. Comply with Division 27 Section "Conductors and Cables for Electronic Safety and Security."
- B. Data Line Supervision: System to include alarm initiation capability in response to opening, closing, shorting, or grounding of data transmission lines.
- C. Install appropriate number of conductor pairs, in the wire gage (AWG) recommended by manufacturer, corresponding to the electronic locking functions specified, amperage drawn and distances covered between the power supplies, power transfer devices, electrified hardware and access control equipment.

2.4 ACCESS CONTROL HARDWARE FINISHES

- A. Standard: Comply with BHMA A156.18.
- B. Protect mechanical finishes on exposed surfaces from damage by applying temporary protective coverings before shipping.
- C. Where specified, finishes on integrated card key locksets or exit hardware to incorporate an FDA recognized antimicrobial coating (i.e., MicroShield™) listed for use on equipment as a suppressant to the growth and spread of a broad range of bacteria, algae, fungus, mold and mildew.
- D. BHMA Designations: Comply with base material and finish as specified.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance of the installed access control system.
- B. Examine roughing-in for electrical source power to verify actual locations of wiring connections before electrified and integrated access control door hardware installation.
- C. Examine roughing-in for LAN and control cable conduit systems to PCs, controllers, card readers, and other cable-connected devices to verify actual locations of conduit and back boxes before device installation.

LEBANON COUNTY MUNICIPAL BUILDING - PHASE II RENOVATIONS
LEBANON, PA

- D. Notify architect of any discrepancies or conflicts between the specifications, drawings and scheduled access controlled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

- A. Doors and frames at scheduled access controlled openings to be properly prepared to receive specified electrified and access control hardware and connections without additional in-field modifications.

3.3 INSTALLATION

- A. Install each item of electronic integrated door hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
- B. Mounting Heights: Mount electronic integrated door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
 - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
- C. Boxed Power Supplies: Verify locations.
 - 1. Configuration: Provide the least number of power supplies required to adequately serve doors with access control hardware and equipment.
- D. Final connect the system control switches (integrated card key locking hardware, remote readers, keypads, display terminals, biometrics), and monitoring, and signaling equipment to the related Controller devices at each opening to properly operate the electrified door and access control hardware according to system operational narratives.
- E. Retrofitting: Install each door hardware and access control item to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- F. System Application Software: Install, and test application(s) software and databases for the complete and proper operation of systems involved. Assign software license(s) to Owner.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.
 - 2. Submit documentation of incomplete items in the following formats:
 - a. PDF electronic file.
 - b. Electronic formatted file integrated with the Openings Studio™ door opening management software platform.
- B. Fire Door Assembly Inspection: Reference Division 01 Sections "Closeout Procedures". Conduct an initial fire door assembly inspection, including documentation reporting, upon completion of door hardware installation according to NFPA 80 Standard for Fire Doors and Other Opening Protectives, paragraph 5.2.4, requirements.
- C. Opening Tags: Provide readable, QR-type label with password protected link-out to Openings Studio™ BIM software suite and the installed door and hardware information. Affix label to door frame as instructed by architect or owner.
- D. Commissioning and Testing Schedule: Prior to final acceptance of the access control system installation, the following testing and documentation to be performed and provided to the Owner.
 - 1. Inspection: Verify that units and controls are properly installed, connected, and labeled and that interconnecting wires and terminals are identified.
 - 2. Pre-testing: Program and adjust the system and pretest all components, wiring, and functions to verify they conform to specified requirements. Provide testing reports indicating devices tested, pass/fail status, and actions taken to resolve problem(s) on failed tests.
 - 3. Acceptance Test Schedule: Correct deficiencies identified by tests and observations and retest until specified requirements are met.
 - 4. Provide “as designed” drawings showing each device and wiring connection and electronic enclosure legends indicating cabling in and out.
 - 5. Provide a complete set of operating instructions for access control hardware devices and a complete software user manual. The documentation includes module reference guides for each electronic enclosure.

3.5 ADJUSTING

- A. Adjust and check each operating item of integrated access control door hardware, and each door opening to ensure proper secured operation and function of every unit. Replace units that cannot be adjusted to operate as intended.

LEBANON COUNTY MUNICIPAL BUILDING - PHASE II RENOVATIONS
LEBANON, PA

3.6 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by access control system installation.
- B. Clean operating items as necessary to restore proper finish and provide final protection and maintain conditions that ensure access control door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

- A. Engage an authorized systems manufacturer representative to train Owner's maintenance personnel to adjust, operate, and maintain electronic integrated door hardware and the access control system.

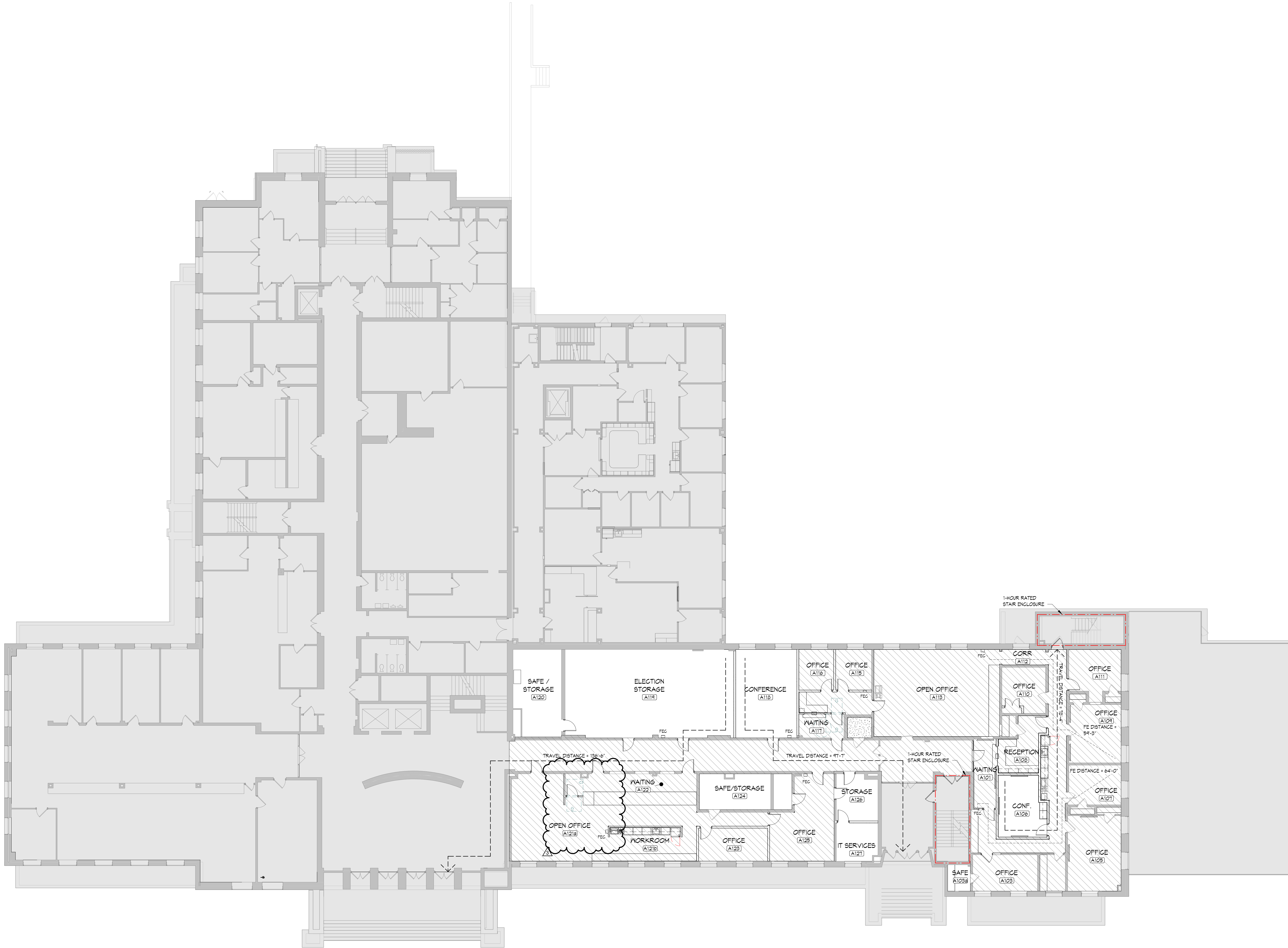
3.8 ACCESS CONTROL HARDWARE SETS

- A. The access control system hardware sets listed below represent the design intent and direction of the owner, architect, and security consultant (as applicable). They are intended as a guideline only and should not be considered a detailed opening schedule. Discrepancies, conflicting, and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
- B. The supplier is responsible for handing and sizing all products and providing the correct option for the appropriate door type and material where more than one is presented in the hardware sets. Quantities listed are for each pair of doors, or for each single door.
- C. MATERIALS ARE SPECIFIED IN ACCORDANCE WITH THE PREMIER/ASSA ABLOY GPO CONTRACT #PP-FA-944.
- D. Refer to Section 080671, Door Hardware Sets, for hardware sets.

END OF SECTION 281500

1/11/2026 9:52:30 AM

1 FLOOR PLAN - FLOOR 1
3/32" = 1'-0"



LEBANON COUNTY MUNICIPAL BUILDING
PHASE II RENOVATIONS
400 South 8th St.
Lebanon, PA 17042

NO.	DATE	RELEASE
1	07.01.26	ISSUED SET
2	07.01.26	FOR PERMIT
3	07.01.26	FOR BIDDING
4	07.01.26	FOR CONSTRUCTION

Issue Date: 07.01.26
Drawn By: SW
Checked By: JS

CODE PLAN -
FIRST FLOOR

Sheet Number:
A012

BH JOB NO. 22-036

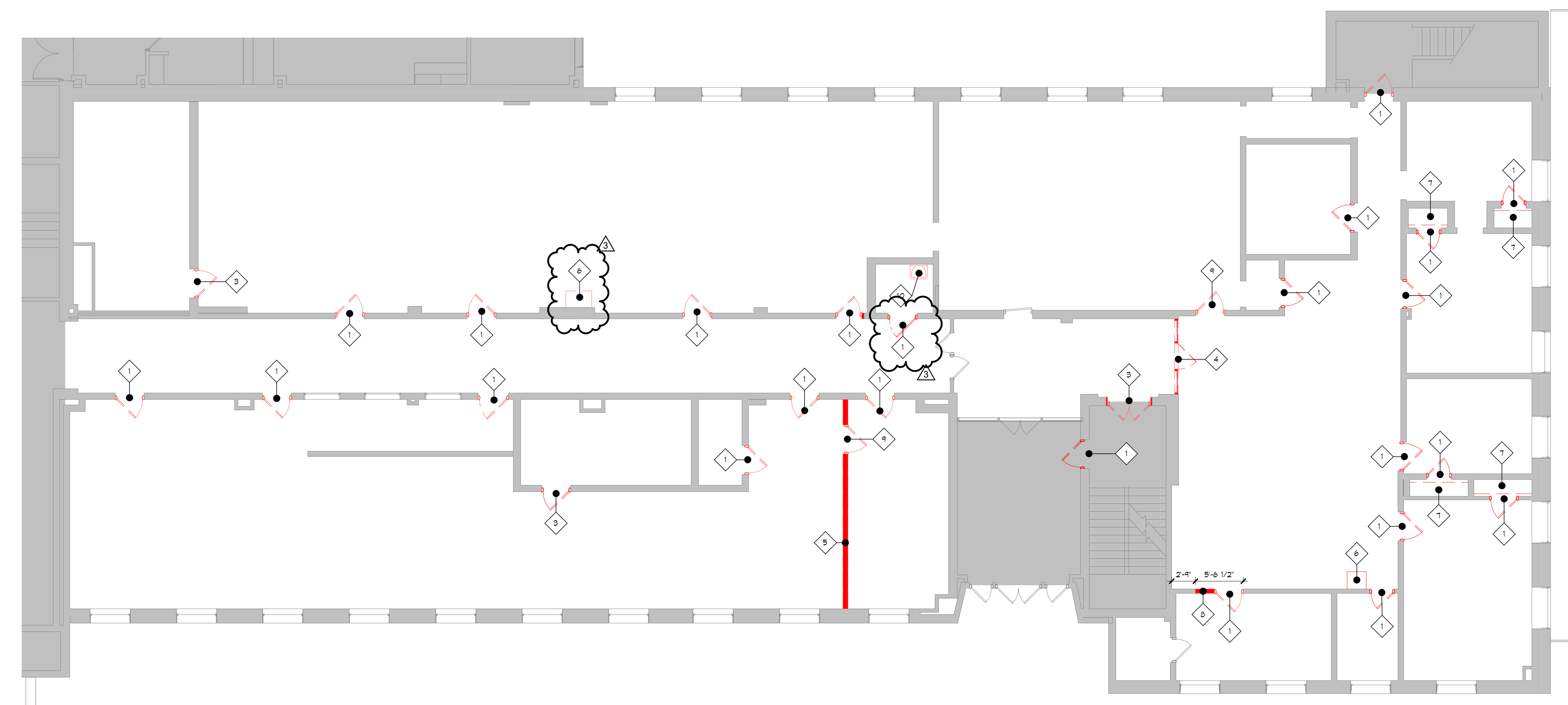
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ARCHITECTURE
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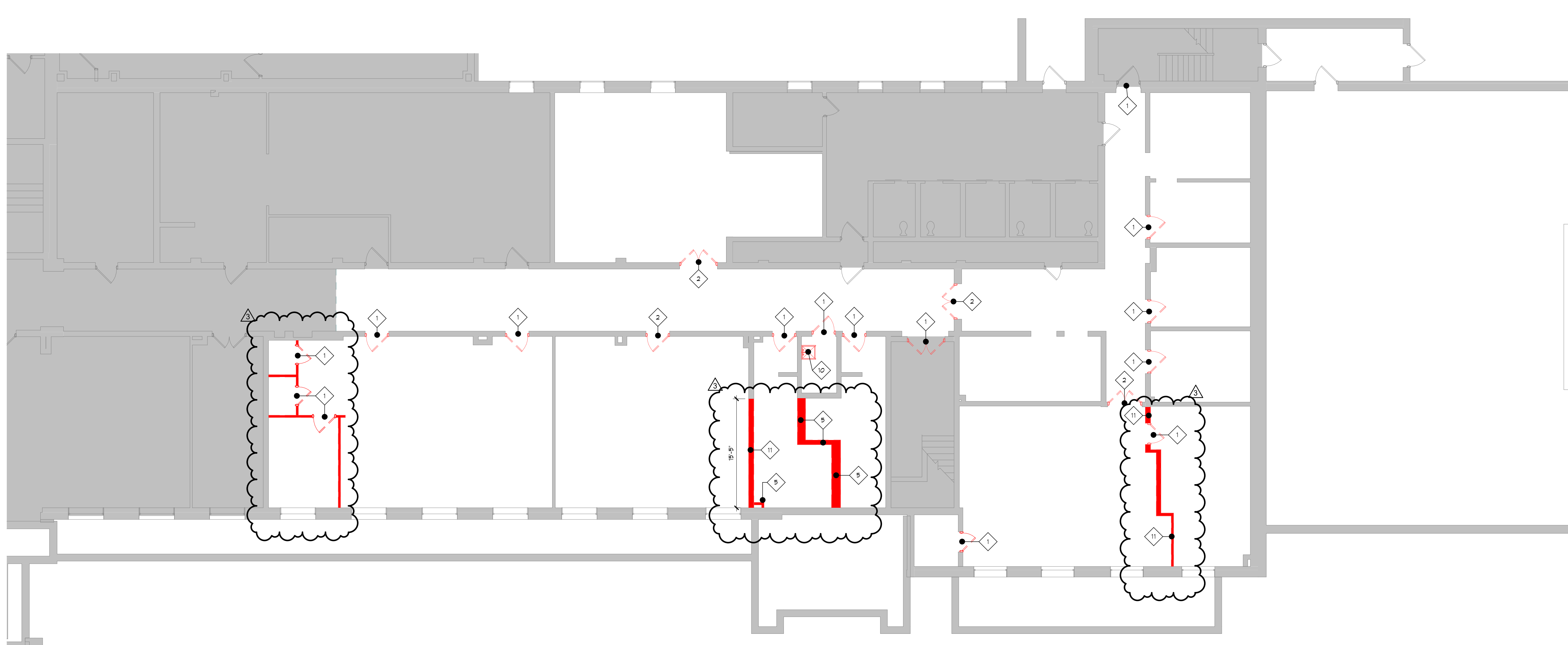
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LEBANON COUNTY MUNICIPAL BUILDING
PHASE II RENOVATIONS
22-036

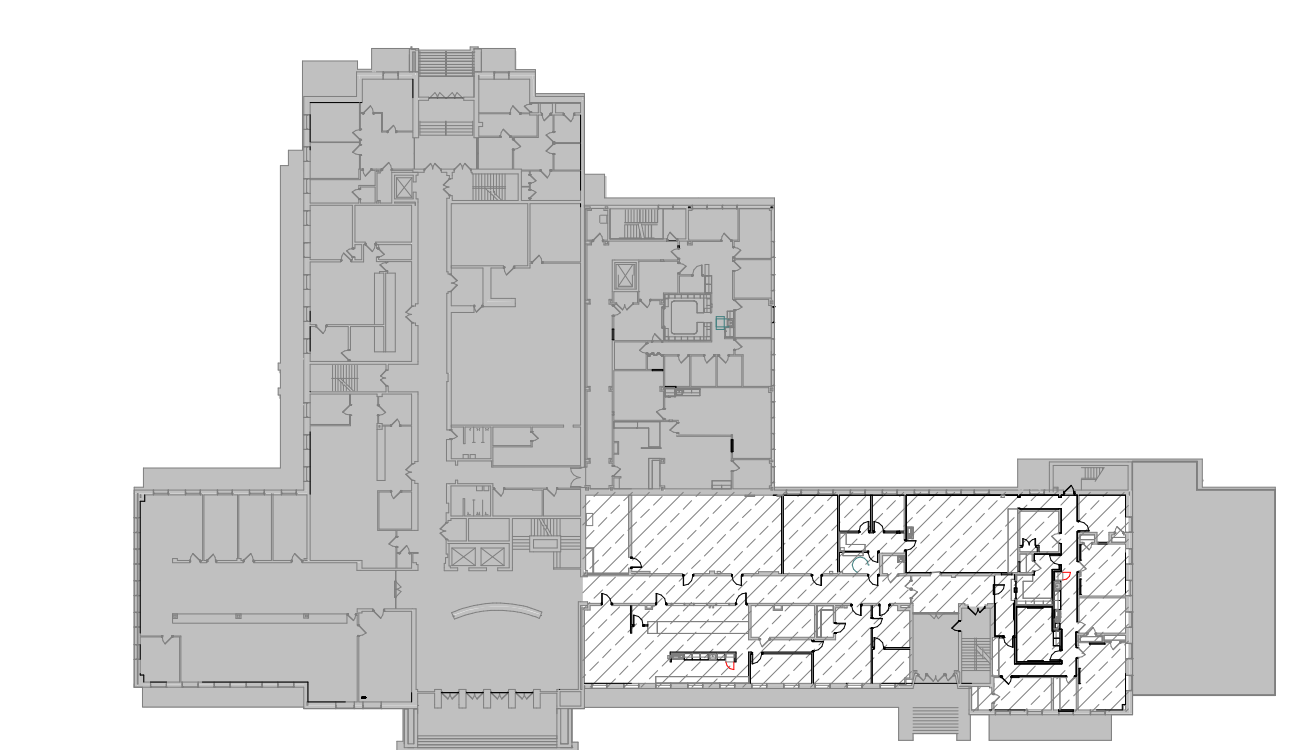
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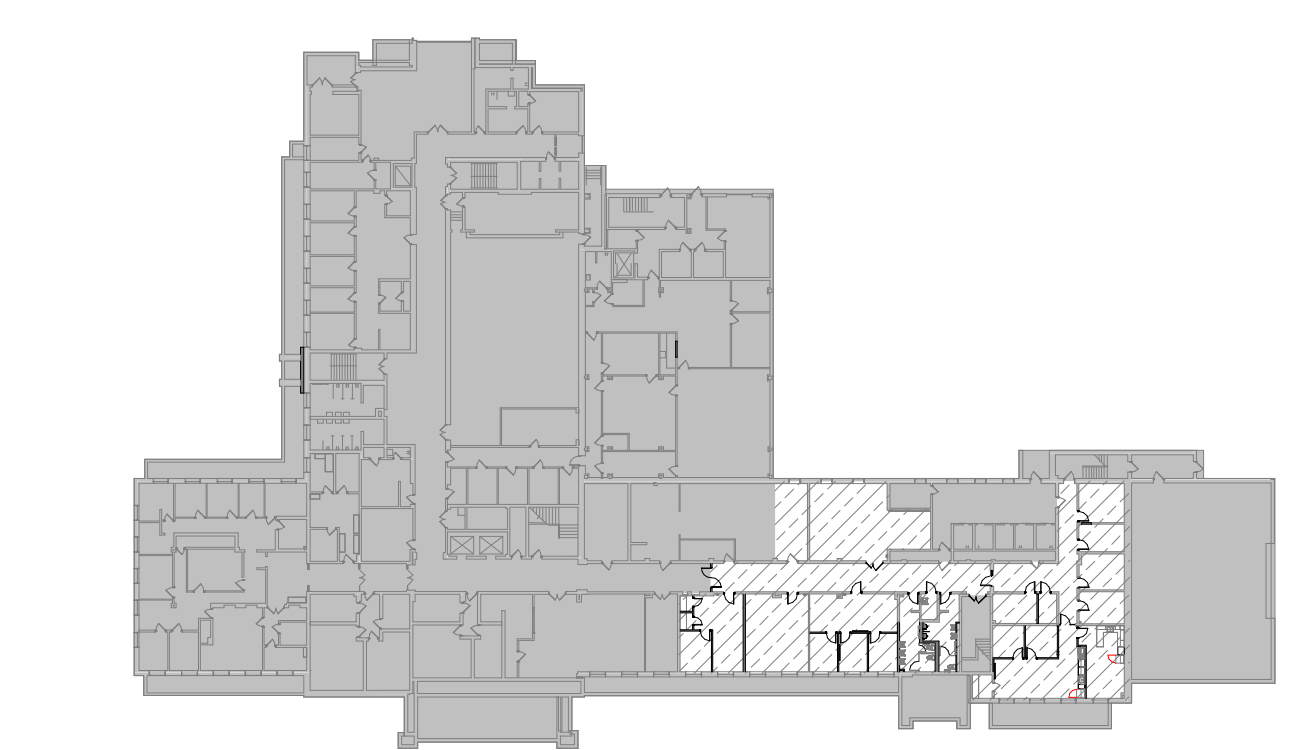
1 DEMOLITION PLAN - FLOOR 1
1/8" = 1'-0"



2 DEMOLITION PLAN - GROUND FLOOR
1/8" = 1'-0"



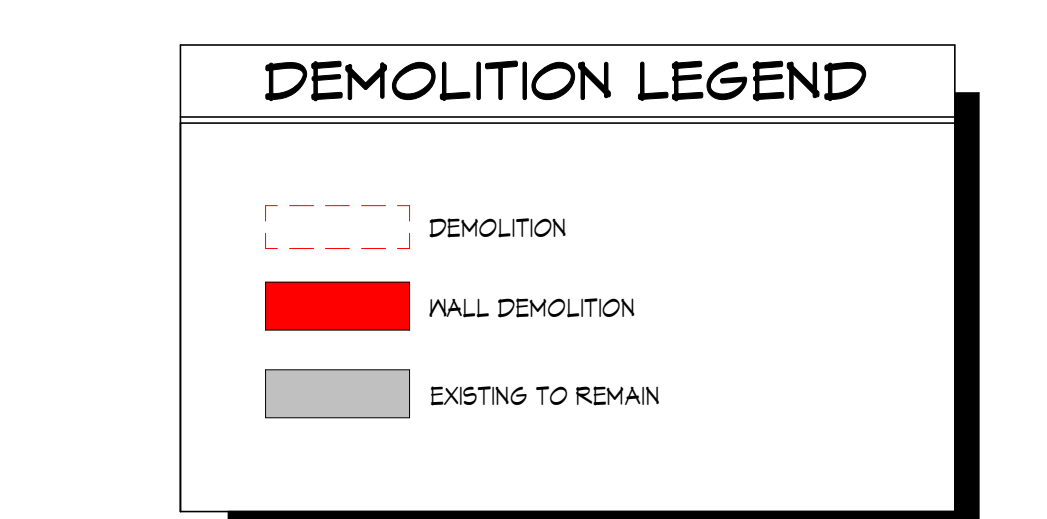
KEY PLAN - FLOOR 1
1" = 60'-0"



KEY PLAN - GROUND FLOOR
1" = 60'-0"

- GENERAL DEMOLITION NOTES**
1. THESE DEMOLITION/ALTERATION NOTES APPLY TO ALL CONTRACTORS OF EVERY DISCIPLINE, WHETHER THESE NOTES ARE INDICATED ON OTHER DISCIPLINES' DRAWINGS OR NOT.
 2. THE OWNER HAS THE OPTION TO RETAIN POSSESSION OF ANY REMOVED MATERIAL OR EQUIPMENT. ALL SUCH ITEMS SHALL BE CAREFULLY REMOVED AND STORED BY THE CONTRACTOR, AT A LOCATION THAT OWNER APPROVES. ANY MATERIALS OR EQUIPMENT NOT RETAINED BY THE OWNER WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
 3. EACH CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL EXISTING CONSTRUCTION TO REMAIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ANY/ALL PORTIONS OF THE EXISTING BUILDING TO REMAIN BY SHORING, ETC. DURING EXTENSIVE DEMOLITION WORK.
 4. COORDINATE WITH MECHANICAL, PLUMBING, ELECTRICAL, AND STRUCTURAL DRAWINGS FOR LOCATIONS, SIZES AND QUANTITY OF NEW PENETRATIONS AND OPENINGS REQUIRED IN EXISTING CONSTRUCTION.

- DEMOLITION KEY NOTES**
1. DEMOLISH EXISTING DOOR, EXISTING FRAME TO REMAIN, PATCH AND REPAIR FRAME TO RECEIVE NEWLY SCHEDULED FINISHES.
 2. DEMOLISH EXISTING DOOR AND FRAME IN ITS ENTIRETY, PATCH AND REPAIR TO RECEIVE NEWLY SCHEDULED DOOR AND FRAME.
 3. REMOVE EXISTING DOOR AND FRAME FINISH, TO RECEIVE NEWLY SCHEDULED FINISHES.
 4. DEMOLISH EXISTING STOREFRONT SYSTEM IN ITS ENTIRETY.
 5. REMOVE EXISTING MALL IN ITS ENTIRETY.
 6. REMOVE EXISTING PLUMBING FIXTURES AND CAP PLUMBING LINES, PATCH AND REPAIR ADJACENT MATERIALS TO RECEIVE NEW SCHEDULE FINISH.
 7. REMOVE EXISTING MALL SHELVING, PATCH AND REPAIR TO RECEIVE NEW FINISH.
 8. REMOVE PORTION OF EXISTING MALL, PATCH AND REPAIR ADJACENT SURFACES TO RECEIVE NEWLY SCHEDULED FINISHES.
 9. DEMOLISH EXISTING DOOR AND FRAME IN ITS ENTIRETY, PATCH AND REPAIR ADJACENT SURFACES TO RECEIVE NEWLY SCHEDULED FINISHES.
 10. REMOVE EXISTING PLUMBING FIXTURES AND PREPARE TO RECEIVE NEW FIXTURES.
 11. REMOVE PORTION OF EXISTING MALL IN ITS ENTIRETY.



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BH ARCHITECTURE
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LEBANON COUNTY MUNICIPAL BUILDING
PHASE II RENOVATIONS
400 South 8th St.
Lebanon, PA 17042

NO.	DATE	RELEASE
1	01.27.20	PROJECT SET
2	02.10.20	PERMIT SET
3	03.17.20	REVIEW
4	04.17.20	NEEDHAM HILL

Issue Date: 07.07.20

Drawn By: MD

Checked By: JS

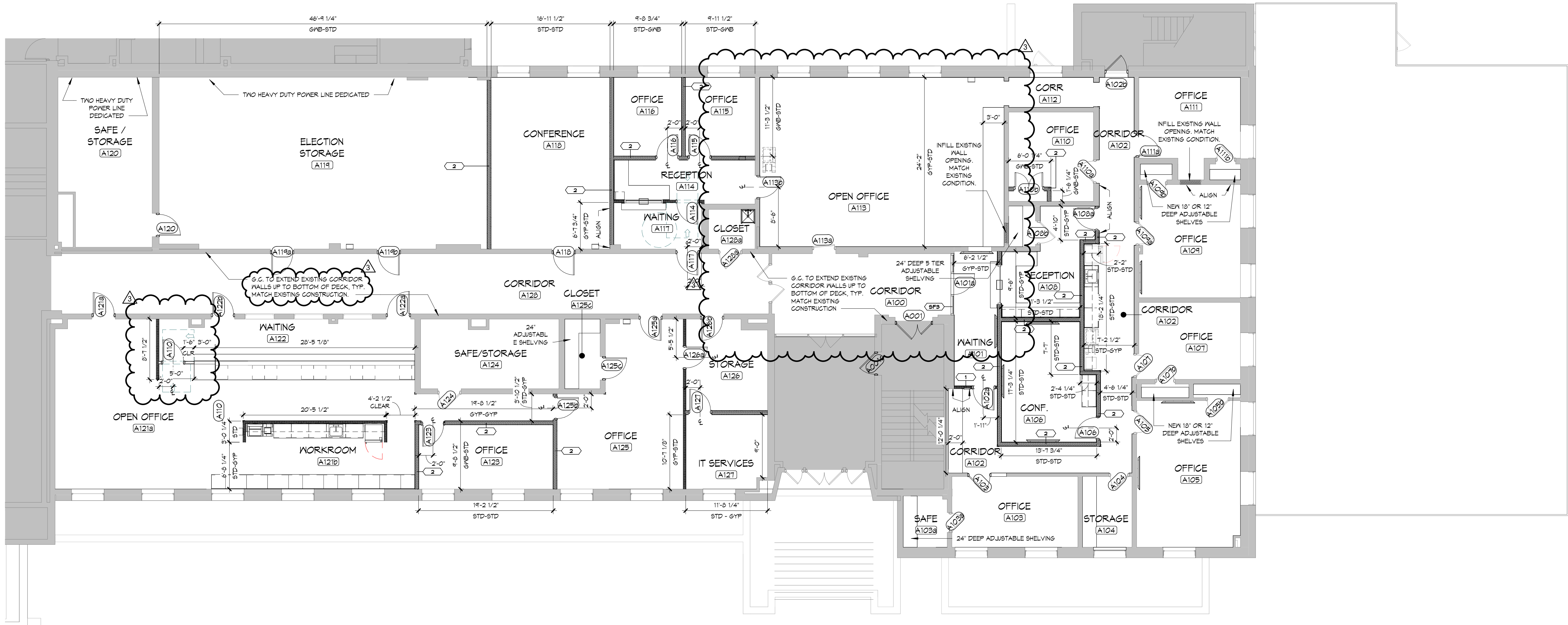
DEMOLITION PLAN

Sheet Number:
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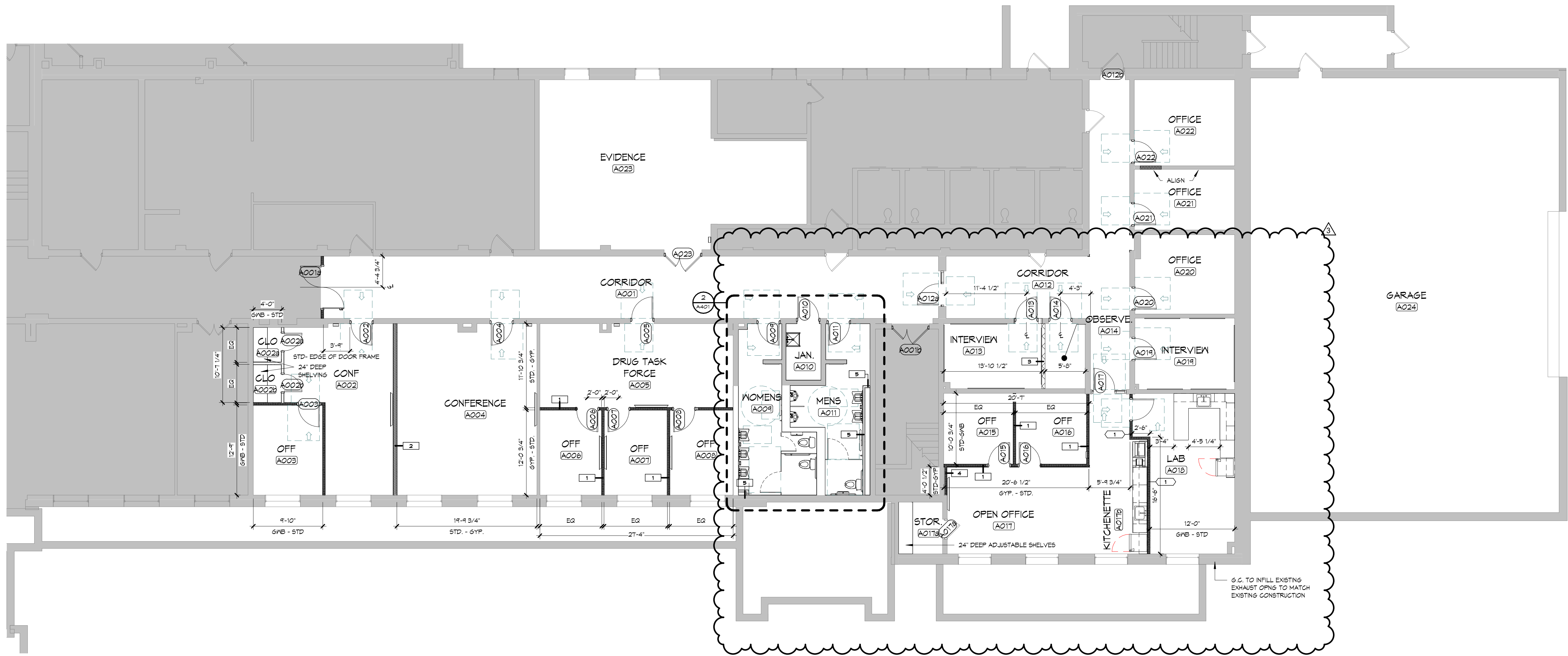
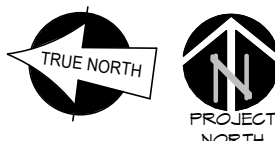
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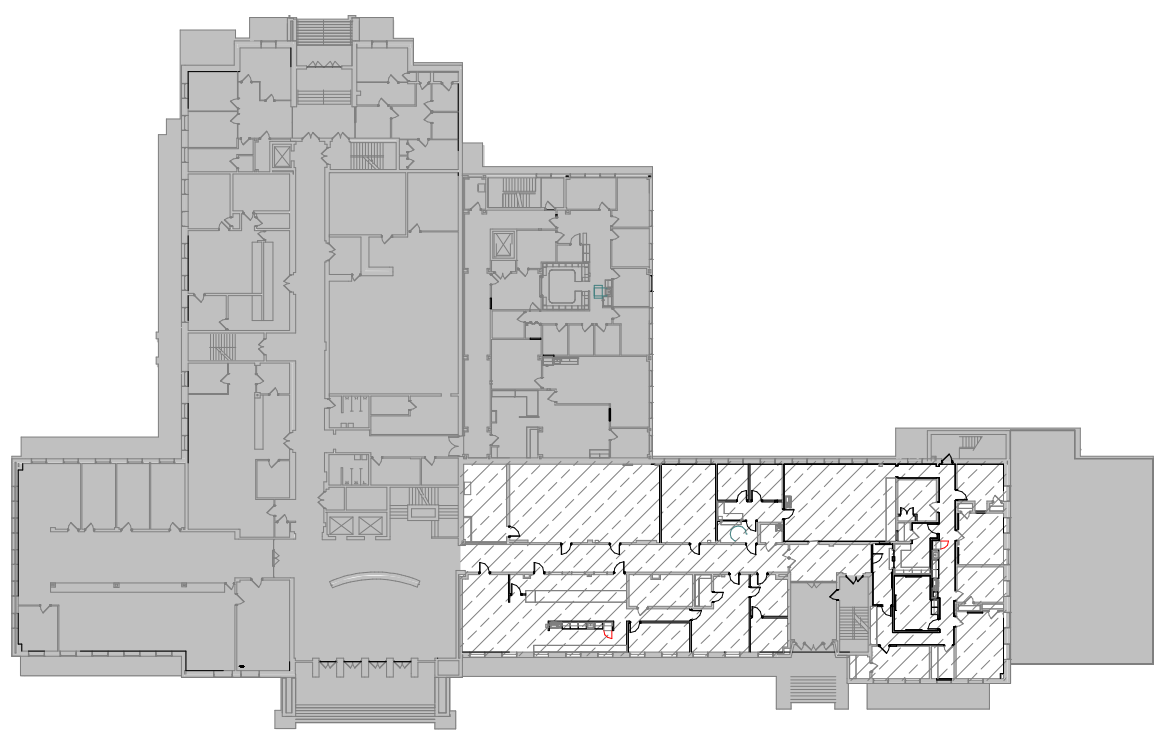
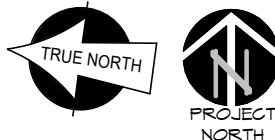
PARTITION TYPE SCHEDULE				
NO.	WALL TYPE	PLAN	DESCRIPTION	RATING
1	INTERIOR NON-LOAD BEARING PARTITION		3 1/2" METAL STUD 16" O.C. 1/2" SOUND ATTENUATION BLANKET (TYP. FIT, 5/8" GNB BOTH SIDES)	NON-RATED
2	INTERIOR NON-LOAD BEARING PARTITION		6" METAL STUD 16" O.C. 1/2" SOUND ATTENUATION BLANKET (TYP. FIT, 5/8" GNB BOTH SIDES)	NON-RATED
3	INTERIOR NON-LOAD BEARING PARTITION		6" MASONRY UNIT PAINT EACH SIDE. MATCH EXISTING WALL LOCATION, GROUND FLOOR	NON-RATED
4	INTERIOR NON-LOAD BEARING PARTITION		3 1/2" METAL STUD 16" O.C. 1/2" SOUND ATTENUATION BLANKET (TYP. FIT, 5/8" GNB ONE SIDE)	NON-RATED
5	INTERIOR PRE-RATED SHAFT WALL		1" TYPE SLK GYPSUM SHAFT LINER PANELS, 2 1/2" METAL C-H STUDS, 5/8" TYPE X GNB	1-HOUR RATED UL 1418



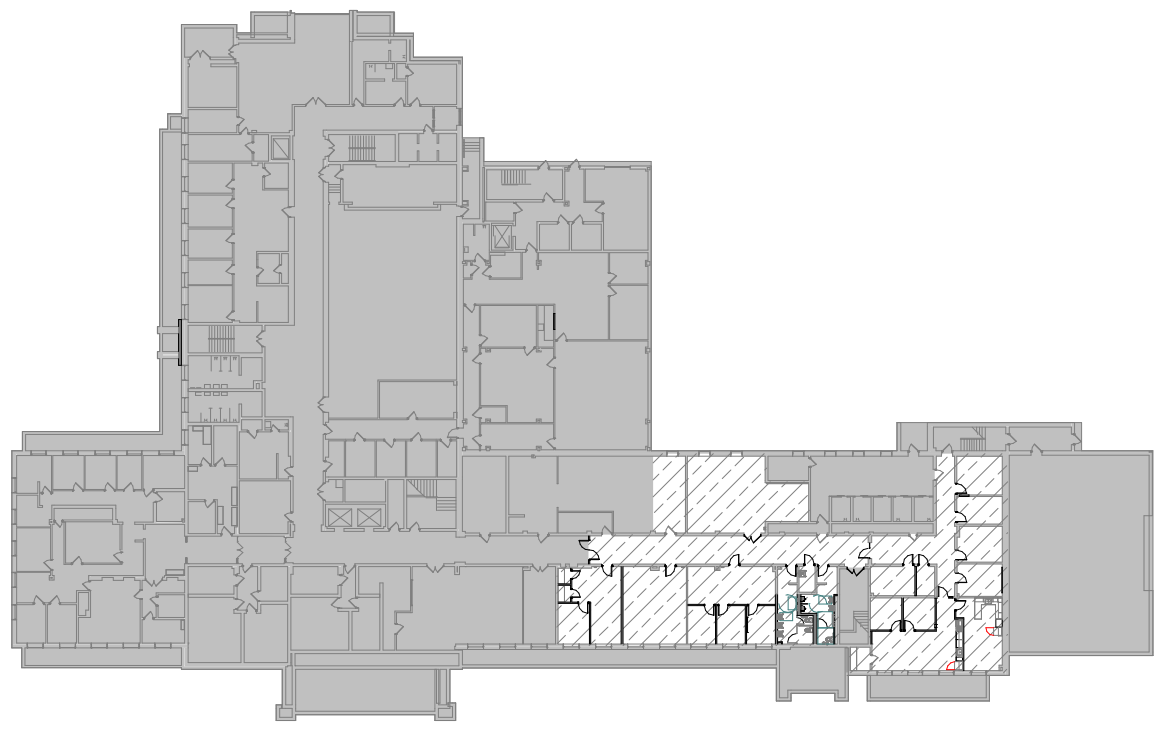
1 FLOOR PLAN - FLOOR 1
1/8" = 1'-0"



2 FLOOR PLAN - GROUND FLOOR
1/8" = 1'-0"



KEY PLAN - FLOOR 1
1" = 60'-0"



KEY PLAN - GROUND FLOOR
1" = 60'-0"



- ### GENERAL WALL NOTES
1. ALL METAL STUD GAUGES, SPACINGS AND HEIGHT LIMITATIONS ARE FOR GENERAL DESIGN PURPOSES. IT IS THE RESPONSIBILITY OF THE METAL STUD MANUFACTURER TO DETERMINE THE FINAL GAUGES AND SPACING TO ACCOMPLISH THE DESIGN.
 2. PROVIDE SLOTTED TOP TRACK FOR ALL PARTITIONS AS REQUIRED FOR DEFLECTION.
 3. ALL GYPSUM BOARD WALL FINISHES TO HAVE 1/2" GAP AT FLOOR SLAB, TYP. AND.
 4. PROVIDE MOISTURE RESISTANT GYPSUM BOARD FOR ALL GYPSUM BOARD IN WET AREAS, SUCH AS, BUT NOT LIMITED TO, TOILET AND BATHING ROOMS, JANITOR'S CLOSETS WITH MOP SINKS, LAUNDRY AND DISHWASHING AREAS.
 5. ALL CORNERS AND ALL VISIBLE DRYWALL EDGES AT OPENINGS, PENETRATIONS, CHANGES IN MATERIAL, ETC., SHALL HAVE CORNER BEAD, L BEAD OR J CHANNEL AS APPLICABLE.
 6. PROVIDE TILE BACKER BOARD FOR ALL TILE LOCATIONS. SEE FINISH DRAWINGS FOR LOCATIONS.
 7. ALL INTERIOR WALL FINISHES SHALL EXTEND 6" MIN ABOVE SUSPENDED CEILING, TYP. AND.
 8. ALL EXPOSED INTERIOR CMU OUTSIDE CORNERS SHALL BE BULGED.
 9. AT ALL INTERSECTIONS OF RATED AND NON-RATED WALLS, RATED WALL SHALL BE PRIMARY, CONTIGUOUS AND A CLOSED ASSEMBLY. ALL RATED WALL CONSTRUCTION SHALL BE UNDERGIRD BY ANY NON-RATED CONSTRUCTION. NON-RATED WALLS SHALL TERMINATE AT FINISHED SURFACE OF RATED WALLS.
 10. ALL RATED WALL COMPONENTS SHALL BEAR APPROPRIATE UL LABELS. REFER TO UL LISTINGS FOR REQUIREMENTS.
 11. AT ALL WALLS WITH AN STC RATING, EXTEND WALL TO UNDERSIDE OF ROOF DECK AND PROVIDE ACOUSTICAL SEALANT ASSEMBLY AT ALL JOINTS AND PENETRATIONS. ALL OPENINGS SHALL BE CUT TIGHT TO FIT AND INFILLED WITH ACOUSTICAL SEALANT ASSEMBLY.
 12. AT ALL WALLS WITH AN STC RATING, STAGGER RECESSED ELEMENTS ON OPPOSING SIDES OF THE WALL IN DIFFERENT STUD SPACES TO REDUCE SOUND TRANSMISSION.
 13. WHERE TV OR WALL MOUNTED SCREENS ARE SHOWN, PROVIDE ADDITIONAL BRACKETING.

KEY LEGEND

ETR

LEBANON COUNTY MUNICIPAL BUILDING PHASE II RENOVATIONS

400 South 8th St.
Lebanon, PA 17042

NO.	DATE	RELEASE
1	07.07.26	ISSUED SET
2	07.07.26	REVISION
3	07.07.26	REVISION

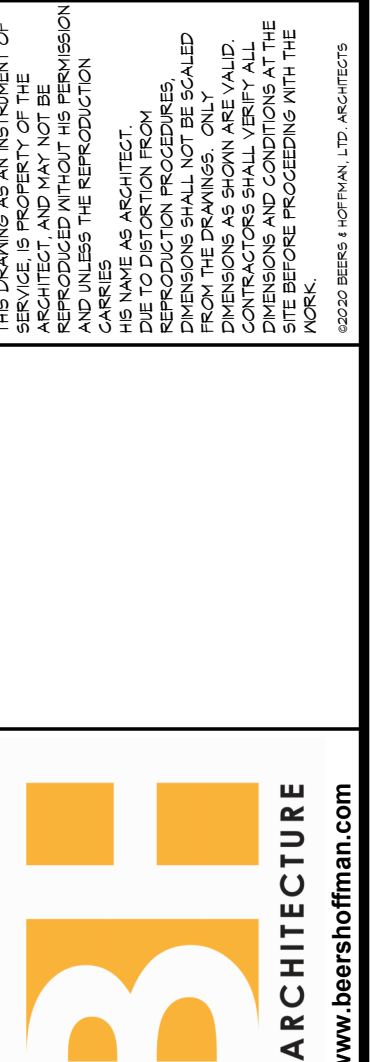
Issue Date: 07.07.26
Drawn By: MO
Checked By: JS

FLOOR PLAN

Sheet Number:
A101

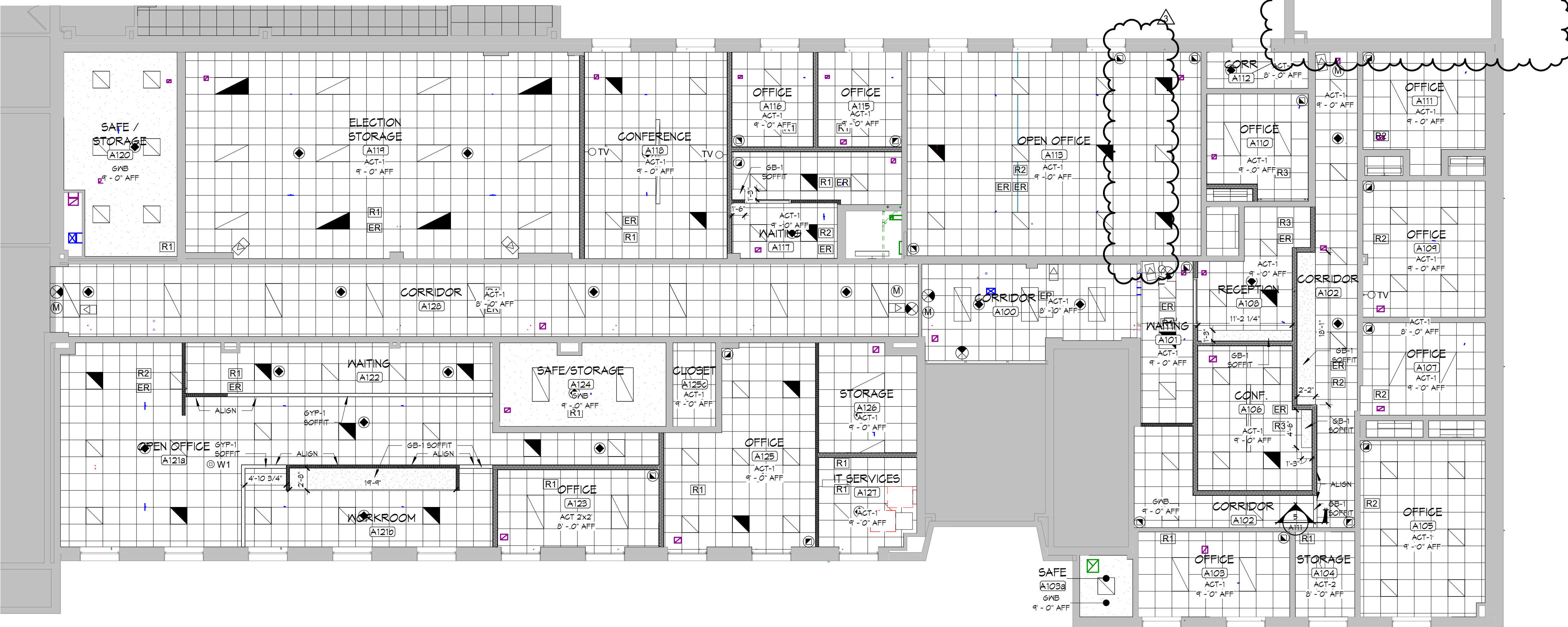
BH JOB NO. 22-036

ISSUED FOR BIDDING

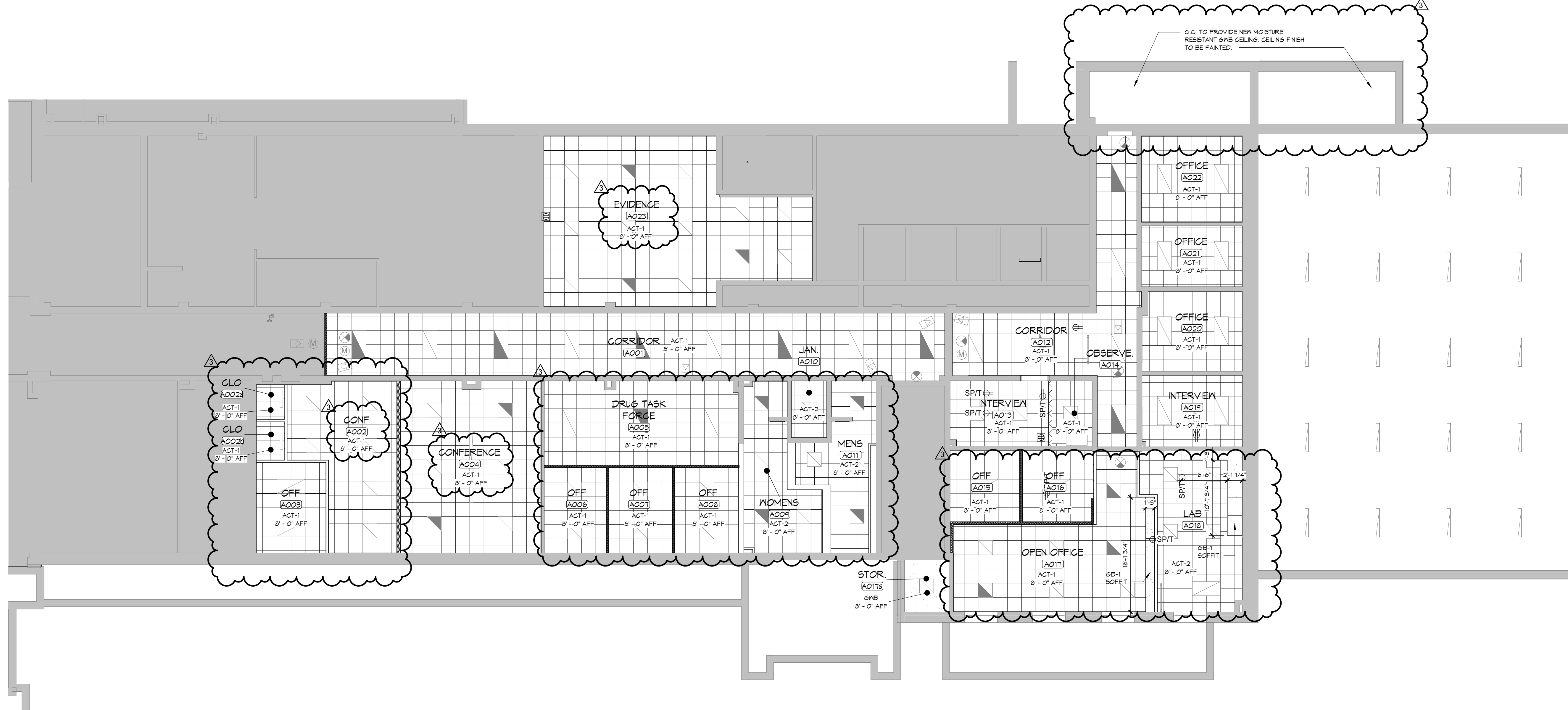
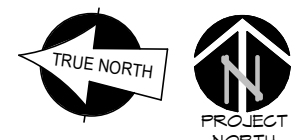


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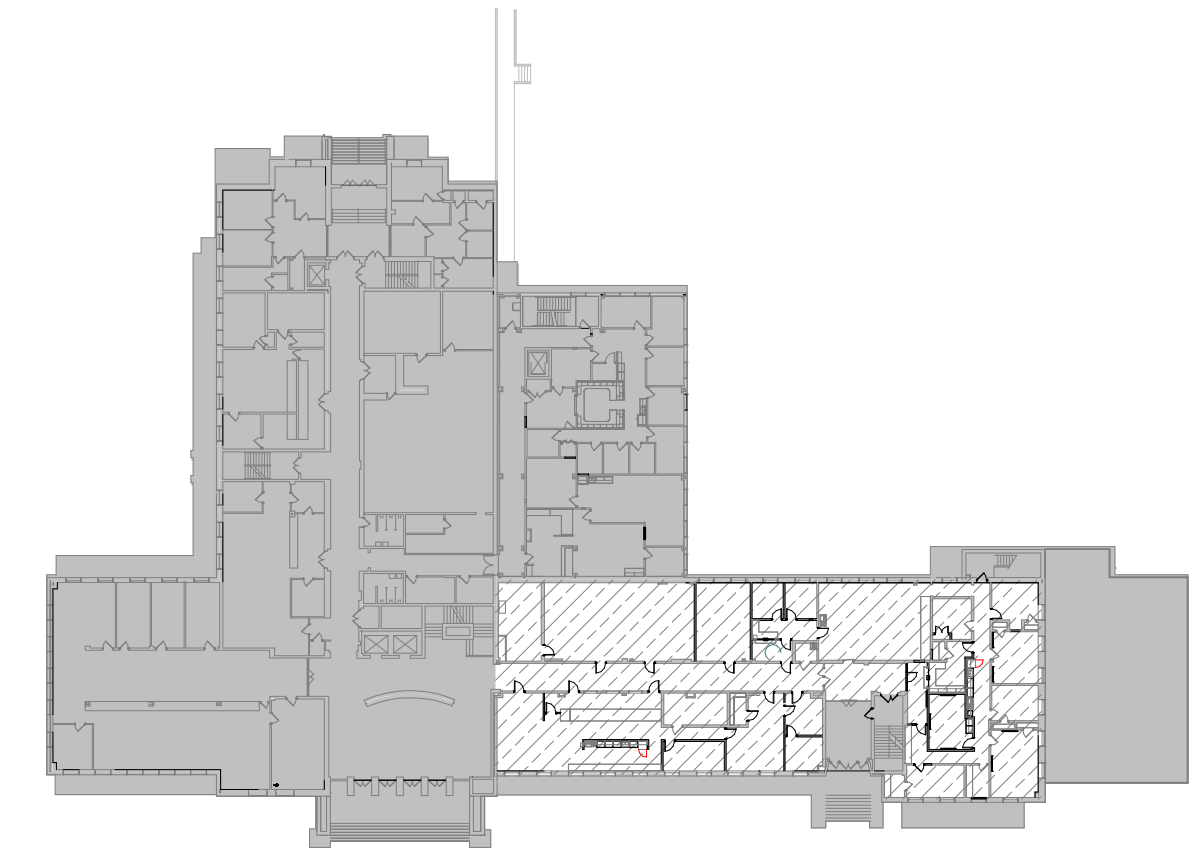
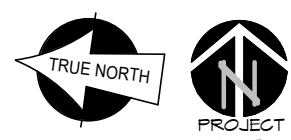
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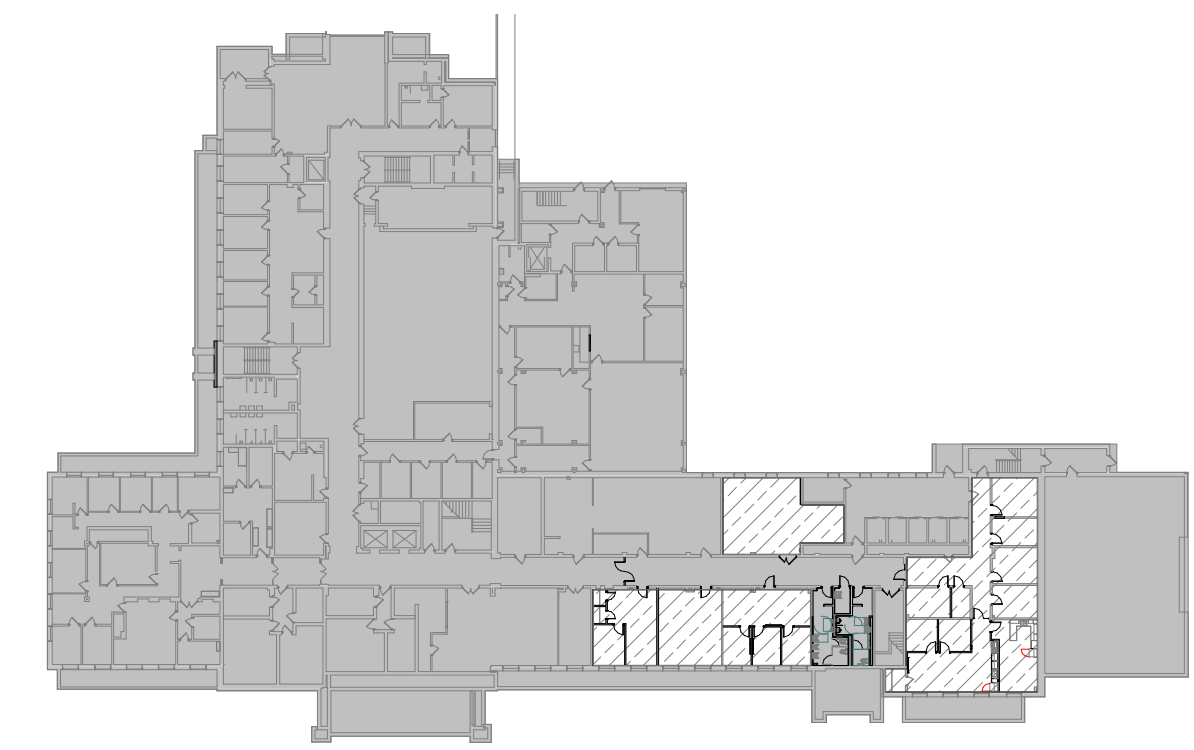
2 FIRST FLOOR
1/8" = 1'-0"



1 GROUND FLOOR
1/8" = 1'-0"

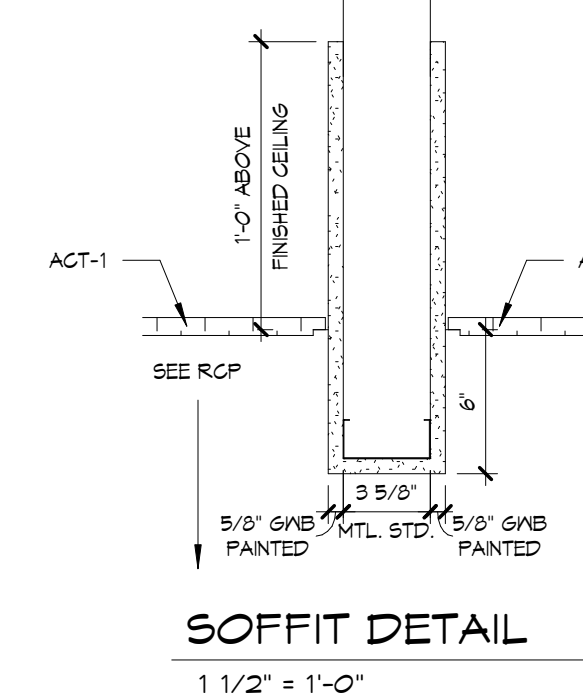


KEY PLAN - FLOOR 1
1" = 60'-0"



KEY PLAN - GROUND FLOOR
1" = 60'-0"

CEILING LEGEND	
ARCHITECTURAL	SECURITY
ACT-1 2x2 ACOUSTICAL CEILING TILE	360 DEGREE SECURITY CAMERA
ACT-2 ACOUSTICAL CEILING TILE, ARMSTRONG CIRUS ANGLED REGULAR	1-WAY SECURITY CAMERA
GNB-1 GYPSUM BOARD CEILING (SEE FINISH SCHEDULE)	EXTERIOR SECURITY CAMERA
CONFERRING	
NOTE: FOR ALL AREAS TO RECEIVE ACT-2 GRID SHALL BE CENTERED IN ROOM WITH EQUAL ACT ON EITHER SIDE. SEE G.C. TO REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR FINAL LIGHTING AND GRILLE LAYOUT. SEE G.C. TO CONTACT ARCHITECT IF ANY DISCREPANCY ARISES DURING CONSTRUCTION.	
NOTE: G.C. TO PROVIDE SOUND BATT INSULATION ABOVE ACOUSTICAL CEILING TILE IN THE FOLLOWING ROOMS: A004, A105, A106, A109, & A125	



SOFFIT DETAIL
1 1/2" = 1'-0"

LEBANON COUNTY MUNICIPAL BUILDING PHASE II RENOVATIONS

400 South 8th St.
Lebanon, PA 17042

NO.	DATE	RELEASE
1	01/07/26	ISSUED FOR BIDDING
2	01/07/26	REVISION
3	01/07/26	REVISION

Issue Date: 01.07.26
Drawn By: MD
Checked By: JS

REFLECTED
CEILING PLAN

Sheet Number:
A111

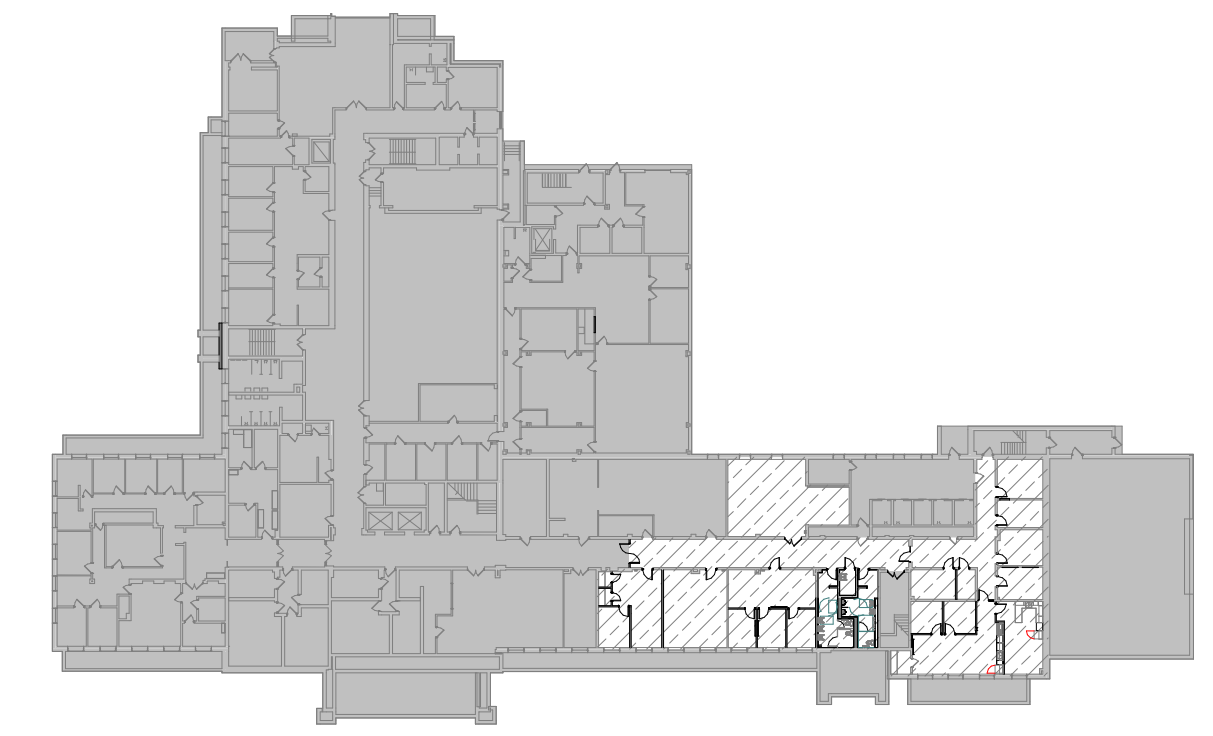
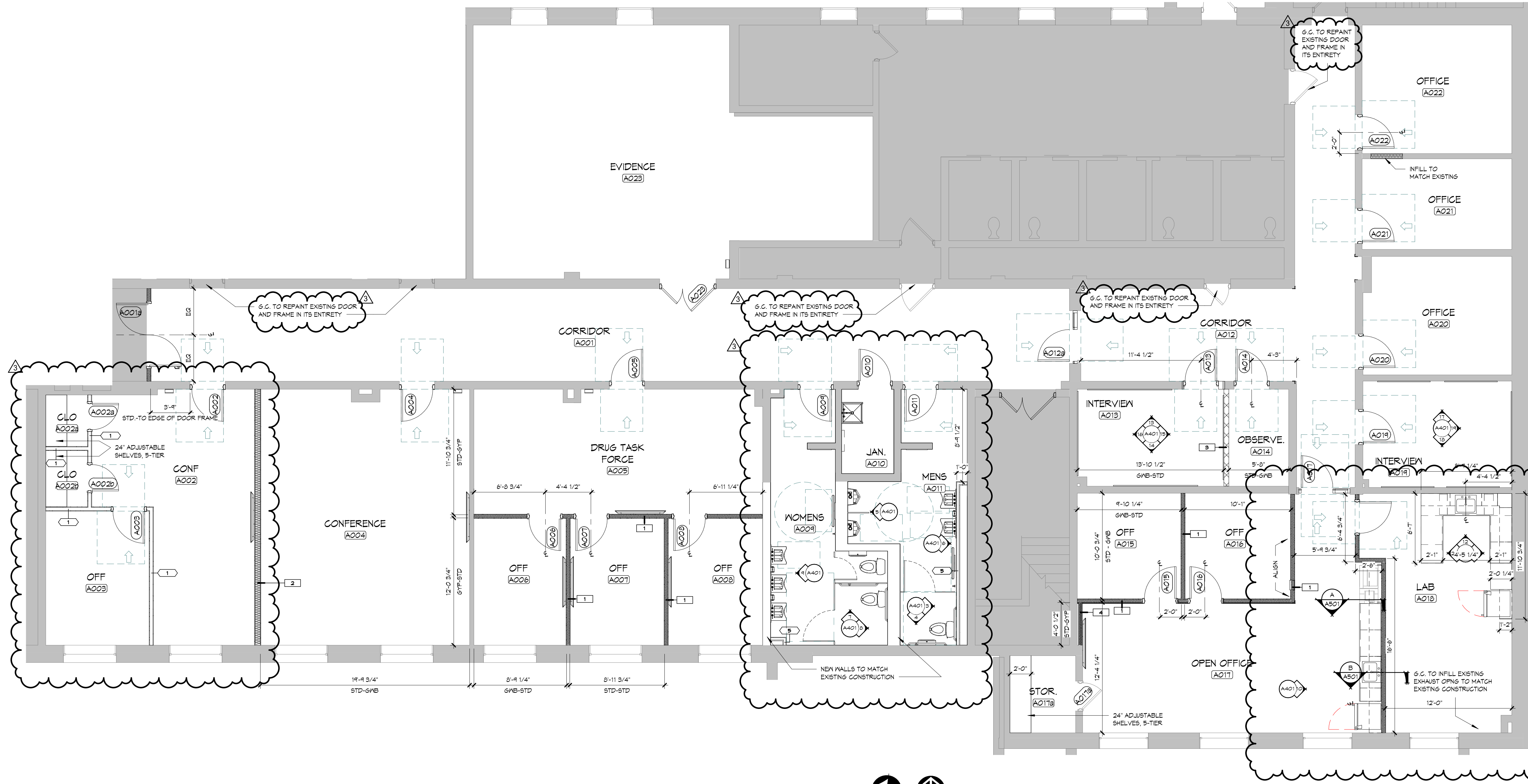
BH JOB NO. 22-036



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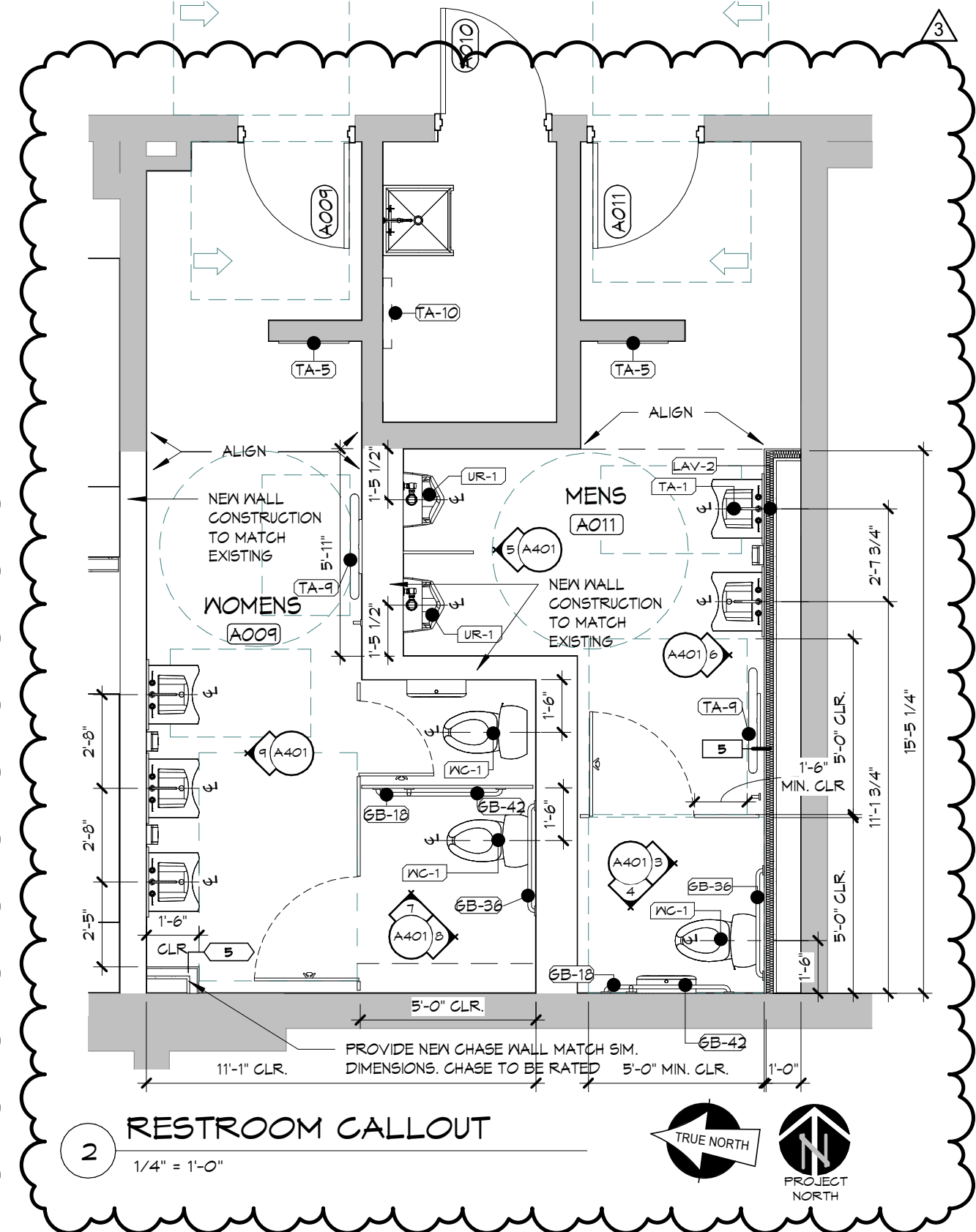
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KEY PLAN - GROUND FLOOR

1" = 60'-0"

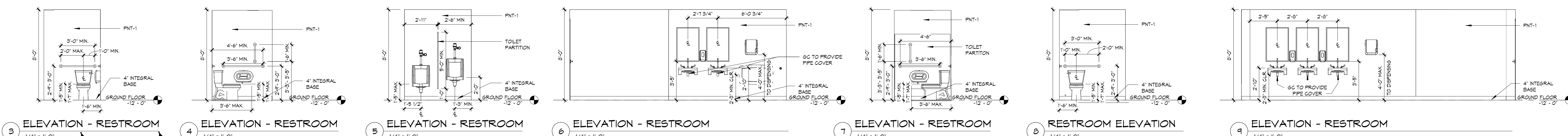


RESTROOM CALLOUT

1/4" = 1'-0"

GROUND FLOOR

3/16" = 1'-0"



ELEVATION - RESTROOM

ELEVATION - RESTROOM

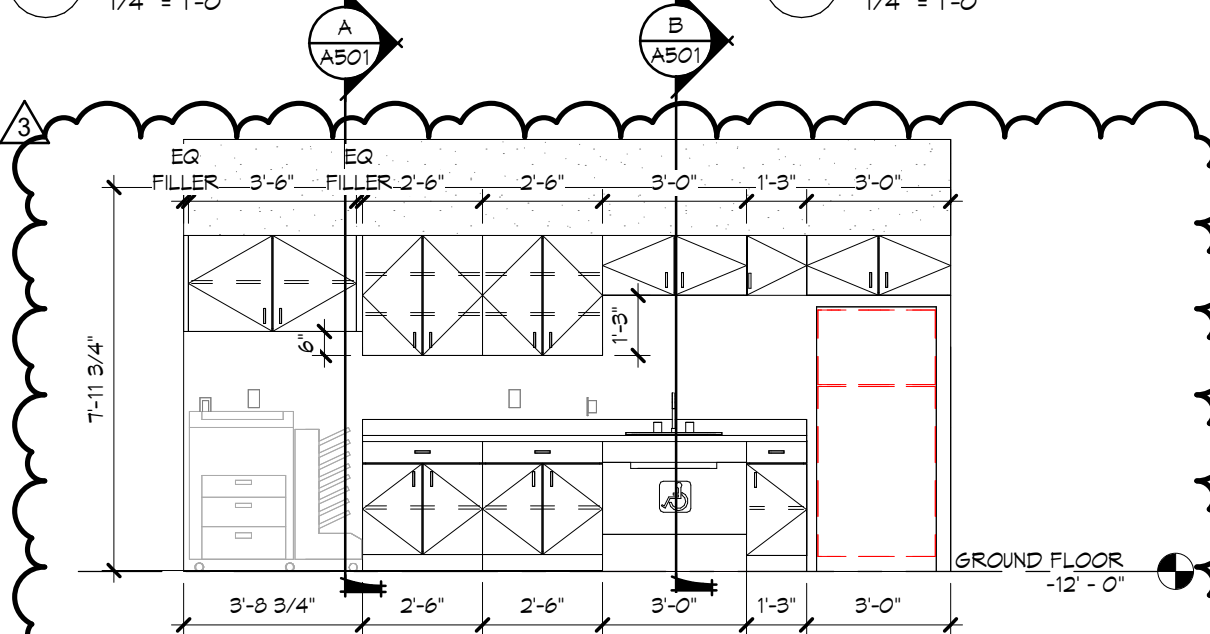
ELEVATION - RESTROOM

ELEVATION - RESTROOM

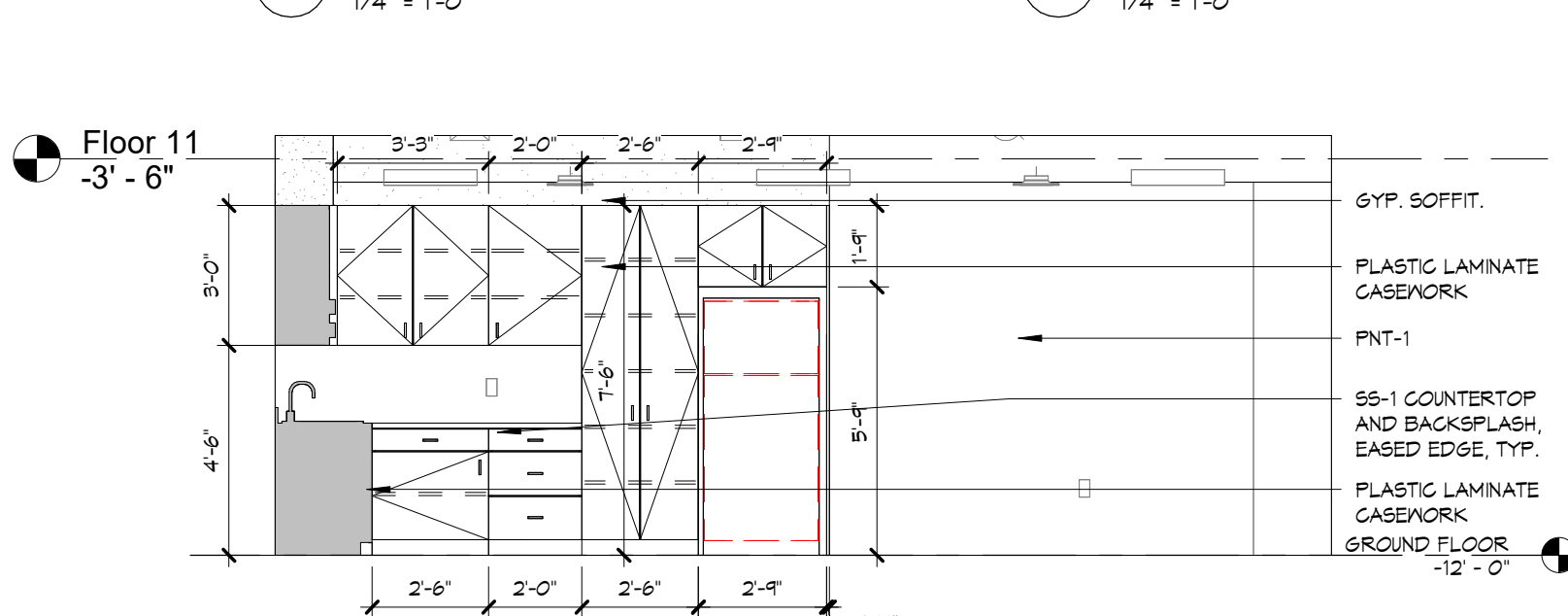
ELEVATION - RESTROOM

RESTROOM ELEVATION

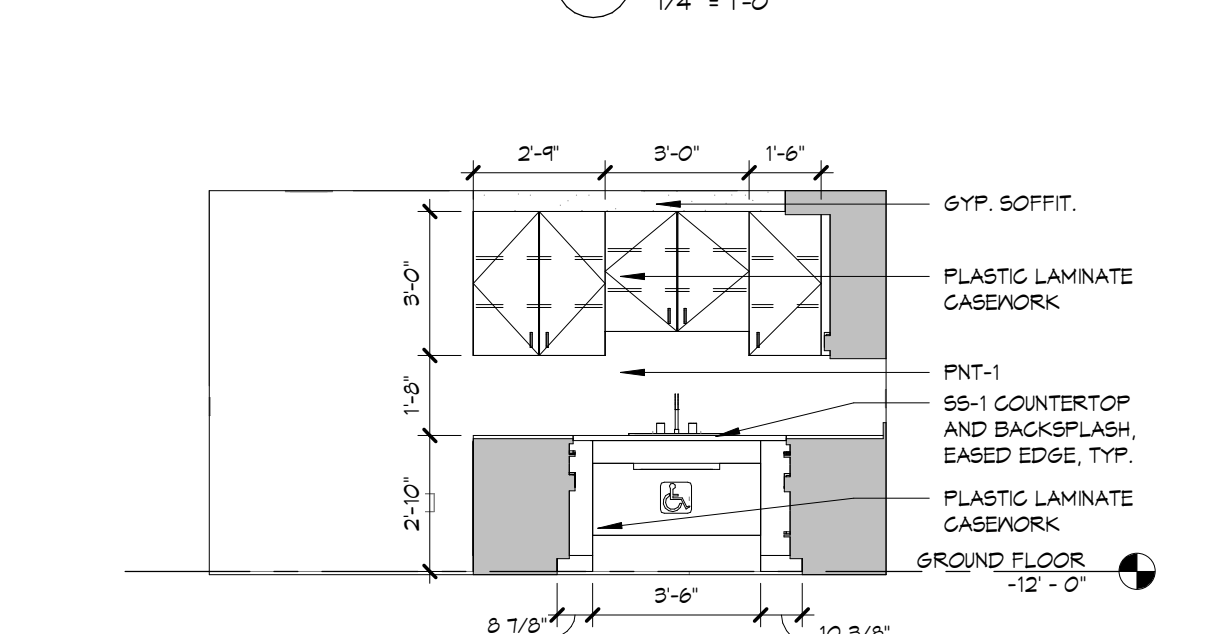
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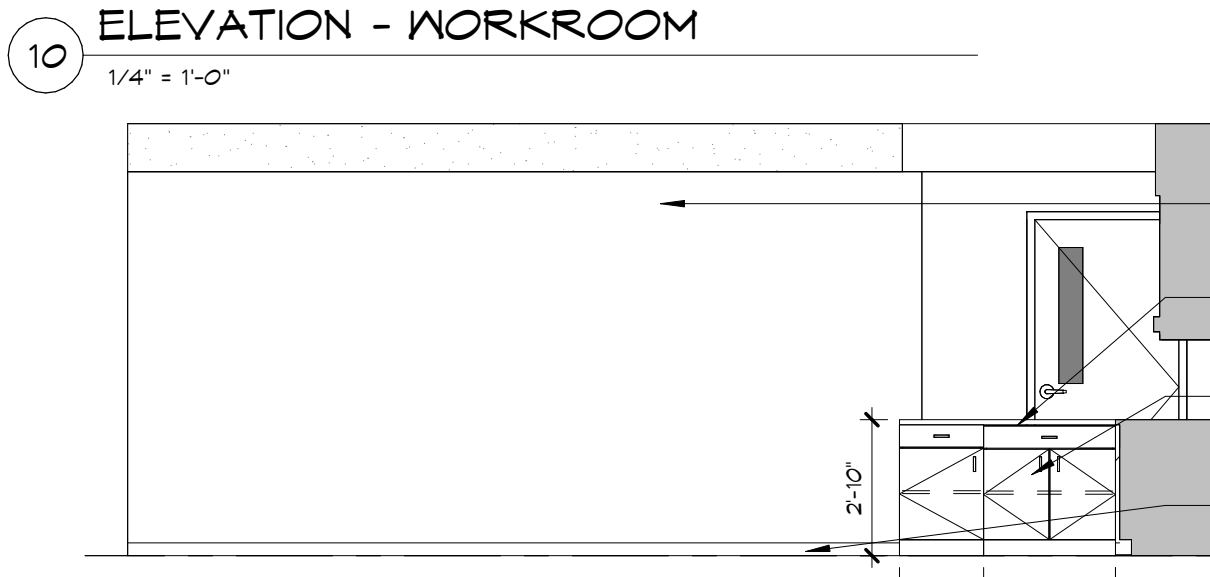
ELEVATION - WORKROOM



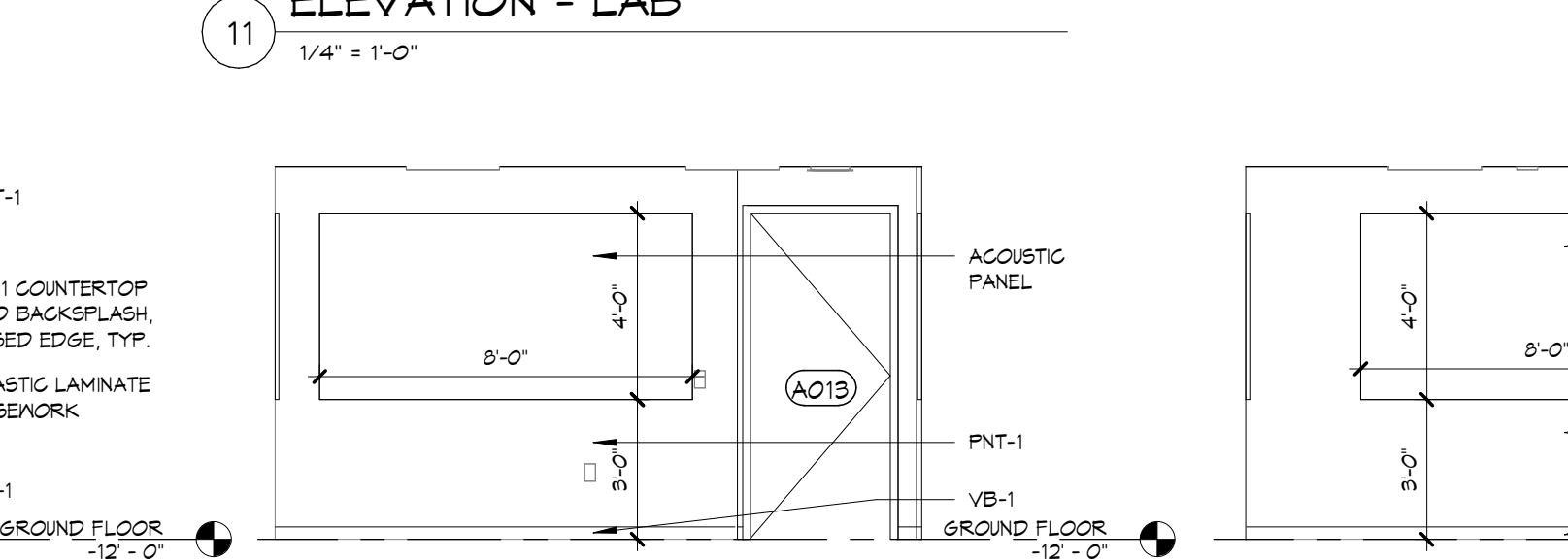
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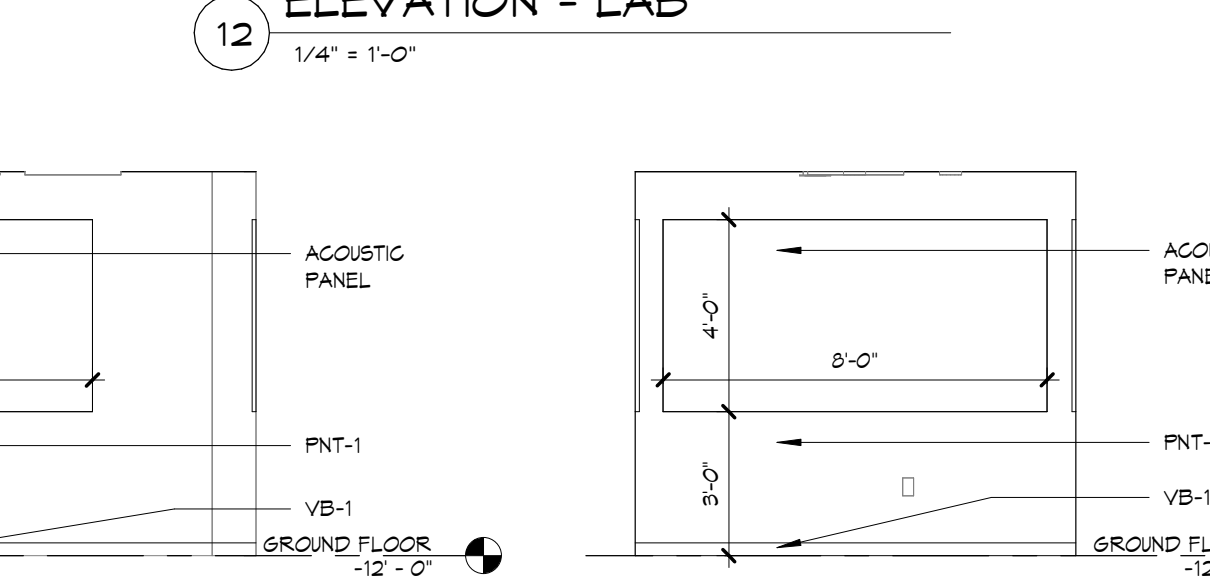
ELEVATION - LAB



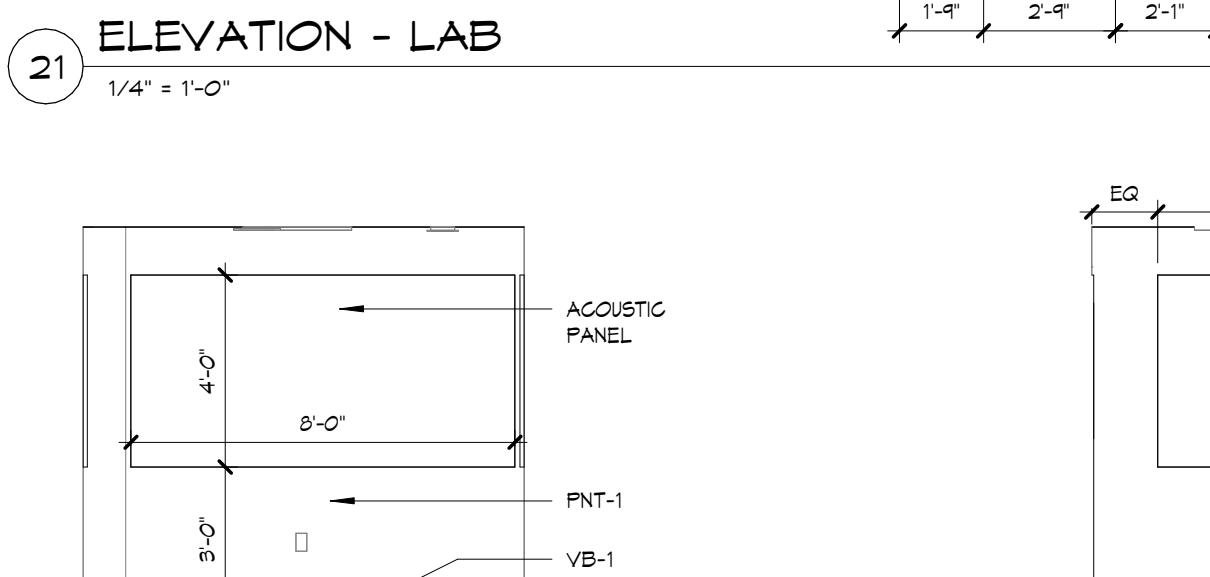
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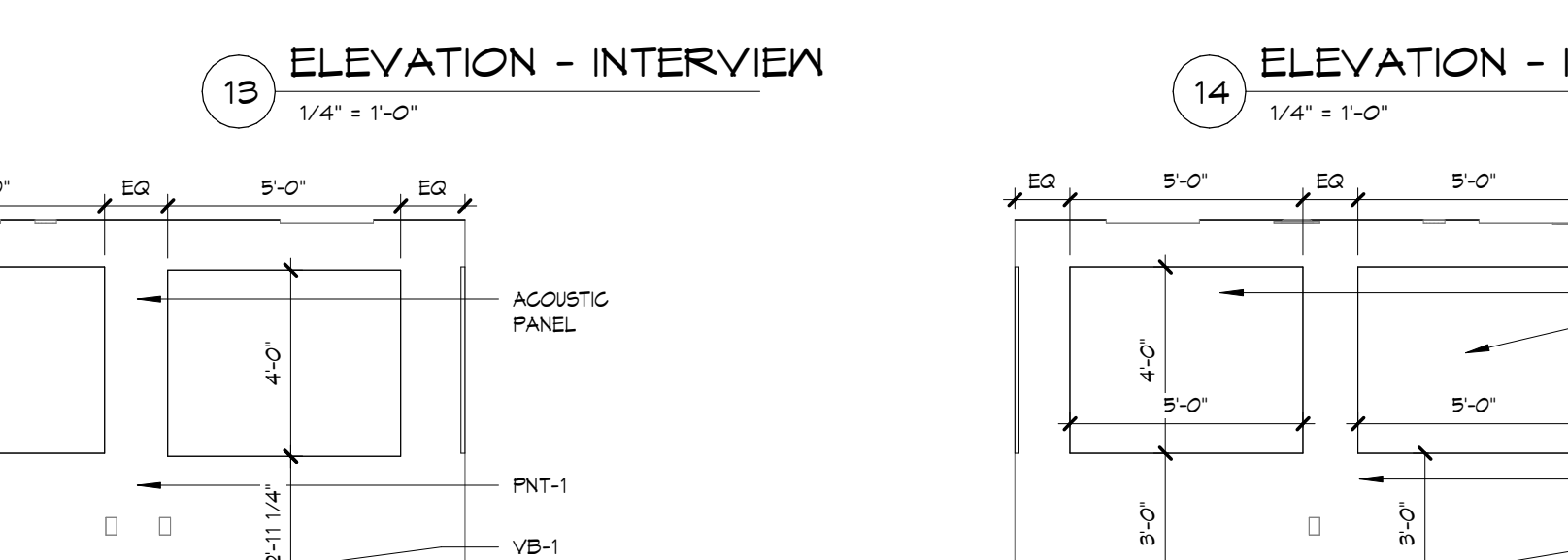
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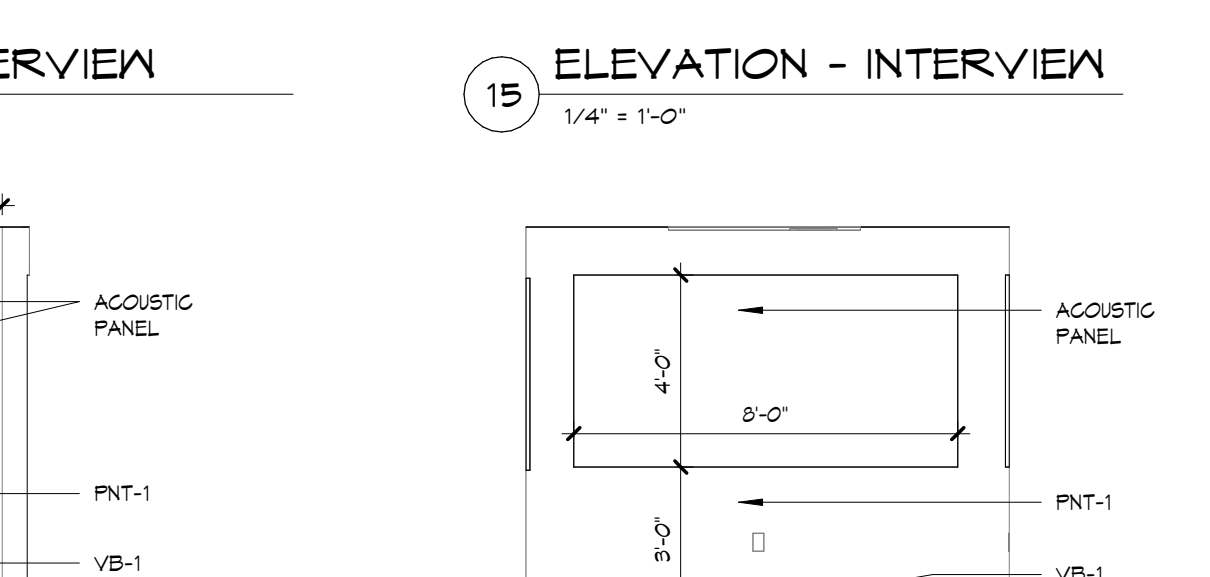
ELEVATION - INTERVIEW



ELEVATION - INTERVIEW



ELEVATION - INTERVIEW



ELEVATION - INTERVIEW



ELEVATION - INTERVIEW

GENERAL ELEV. NOTES

- ALL EXPOSED CASEWORK SIDES SHALL BE FINISHED PLASTIC LAMINATE - PLAM-1, TYP. UND.
- ALL CASEWORK RECESSED TOE KICK SHALL BE PLAM-1, TYP. UND.
- COUNTERTOP, BACKSPLASH AND SILL:
 - SOLID SURFACE - SS-1
 - RECEPTION DESK SHALL RECEIVE MIN. OF 3 GRAMMETS.
 - MANIF. MCKEY
 - STYLE: 2 1/2" SOLID BRASS DESK GRAMMET
- PROVIDE PLAM FACADE BENEATH ALL RECEPTION AREA, PLAM COLOR TBD. GC TO PROVIDE MTL. TRIM PIECES BETWEEN PLAM AND SINK. SUBMIT CUT SHEET FOR APPROVAL.
- PROVIDE VINYL BASE BEHIND ALL EQUIPMENT, TYP.
- VANITY MIRROR FOR ADA SINK SHALL BE PLAM-1 3/4" MDF SUBSTRATE, PROVIDE MIN. OF 1 ACCESSIBLE PANEL FOR PLUMBING ACCESS. GC TO CONFIRM SIZE OF SINK FITS WITHIN MIRROR. PROVIDE VINYL BASE, VB-1.
- ALL CASEWORK SHALL RECEIVE THE FOLLOWING:
 - CONCEALED HINGES W/ SOFT CLOSE
 - SOFT CLOSE DRAWERS/CLOSERS
 - WHITE MELAMINE INTERIORS
 - BRUSHED ALUMINUM BAR PULLS
 - FULL DRAWER DEPTH - IF APPLICABLE
 - FULL DEPTH ADJUSTABLE SHELVES - IF APPLICABLE
 - LATERAL FILING DRAWER SYSTEM - IF APPLICABLE
 - KEYING SYSTEM EACH AREA TO BE KEYPED SEPARATELY FROM OTHER. PROVIDE MIN. OF 3 MASTER KEY.
- ALL CASEWORK SEAMS TO BE CLEAR CAULKED.
- PROVIDE CONCEALED METAL COUNTERTOP BRACKETS. SUBMIT DRAWINGS AND CUT SHEETS FOR APPROVAL.

TOILET ROOM FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	MANF	MODEL NO	MOUNT	REMARKS
TYPICAL TOILET ROOM - FLOOR 1					
(MC-1)	TOILET	-	-	FLOOR	BY PLUMBING CONTRACTOR
-	ACCESSIBLE TOILET	-	-	FLOOR	BY PLUMBING CONTRACTOR
(UR-1)	URINAL	-	-	WALL	BY PLUMBING CONTRACTOR
(LAV-1)	SINK	-	-	WALL	BY PLUMBING CONTRACTOR
-	FAUCET	-	-	SINK	BY PLUMBING CONTRACTOR
(GB-42)	GRAB BAR	BOBRICK	B-600X42"	WALL / PARTITION	HORIZONTAL
(GB-36)	GRAB BAR	BOBRICK	B-600X36"	WALL / PARTITION	HORIZONTAL
(GB-18)	GRAB BAR	BOBRICK	B-600X18"	WALL / PARTITION	VERTICAL
(TA-1)	TOILET TISSUE DISPENSER	GEORGIA-PACIFIC	54210	WALL / PARTITION	
(TA-2)	PAPER TOWEL DISPENSER	GEORGIA-PACIFIC	54544	WALL	
(TA-3)	SOAP DISPENSER	GEORGIA-PACIFIC	54551	WALL	
(TA-4)	FRAMED MIRROR	BOBRICK	B-240	WALL	24"X 36" H
(TA-5)	FRAMED MIRROR	BOBRICK	B-240	WALL	24"X 12" H
(TA-6)	STANDARD HOOK	BOBRICK	B-511T	PARTITION	
(TA-7)	NOT USED	-	-	-	-
(TA-8)	SANITARY DISPOSAL	BOBRICK	B-270	WALL	
(TA-9)	BABY CHANGING STATION	BOBRICK	KB310-55MM	WALL	
(TA-10)	UTILITY SHELF UNIT	BOBRICK	B-234	WALL	

ALL ACCESSORIES TO BE MOUNTED PER ICC/ANSI 117.1-2011 REQUIREMENTS

GENERAL NOTES:

- CONTRACTORS SHALL FIELD-VERIFY ALL FIXTURES AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY, PRIOR TO COMMENCEMENT OF ANY WORK.
- FIXTURE SCHEDULE FOR REPRESENTATION ONLY. GC TO VERIFY ALL TOILET ROOM FIXTURES AND ACCESSORIES WITH PLUMBING CONTRACTOR AND OWNER PRIOR TO COMMENCEMENT OF WORK.
- GENERAL CONTRACTOR TO PROVIDE REQUIRED BLOCKING FOR ALL TOILET ROOM FIXTURES AND ACCESSORIES.
- ALL MISCELLANEOUS TOILET ACCESSORIES TO BE SELECTED BY OWNER AND PROVIDED BY GENERAL CONTRACTOR.

LEBANON COUNTY MUNICIPAL BUILDING
PHASE II RENOVATIONS

400 South 8th St.
Lebanon, PA 17042

NO.	DATE	RELEASE
1	07/01/20	PROJECT SET
2	07/01/20	REVISIONS
3	07/01/20	REVISIONS

Issue Date: 07.01.20

Drawn By: MO

Checked By: JS

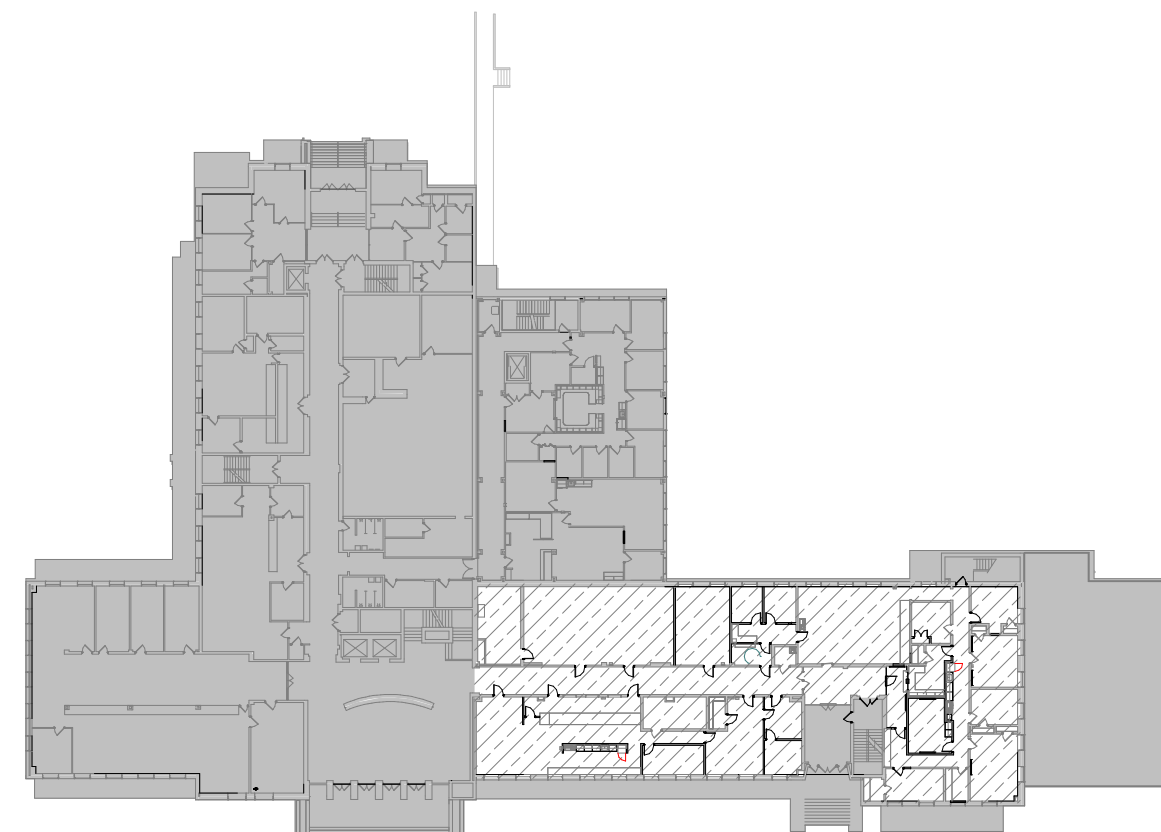
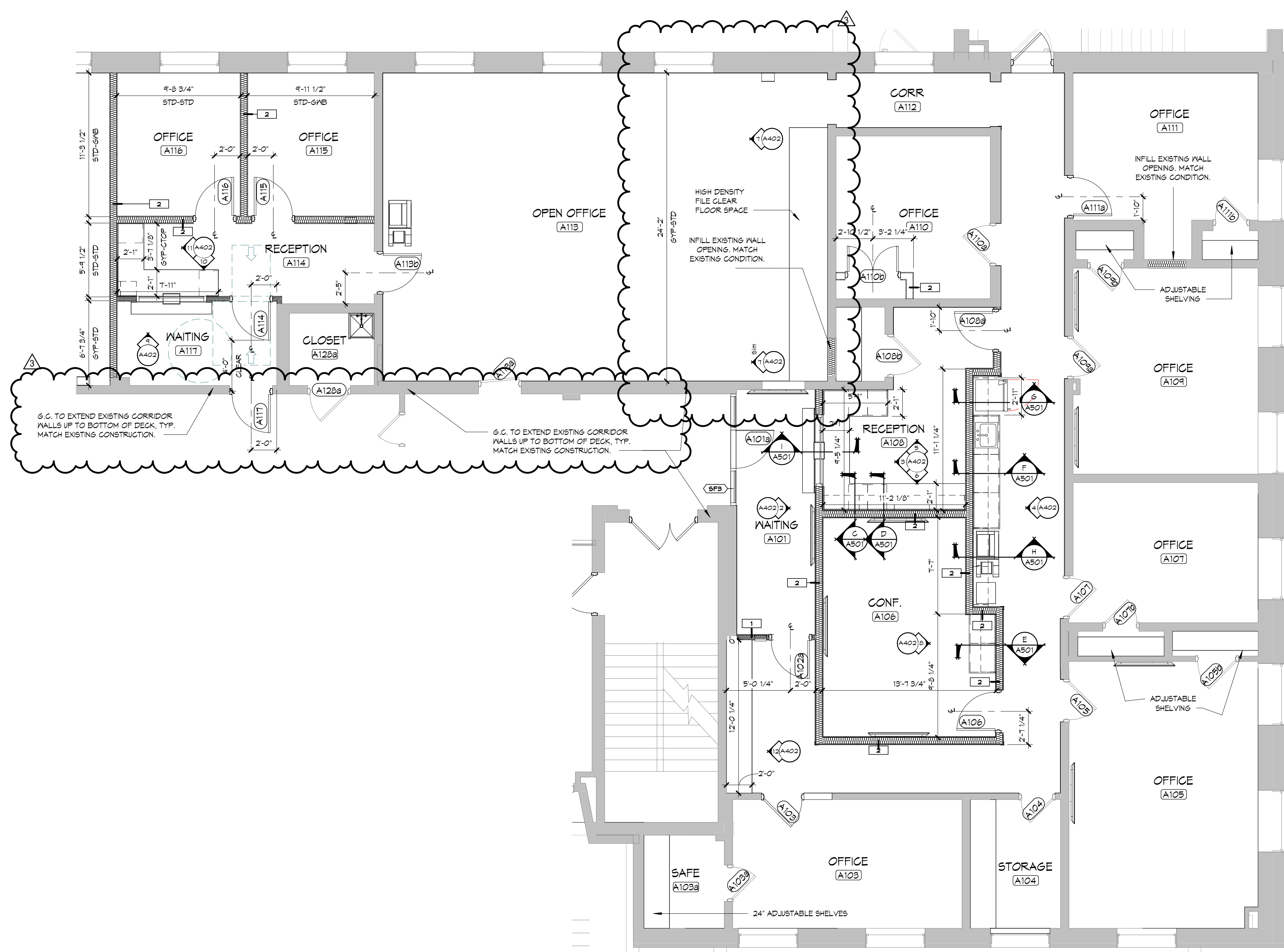
ENLARGED
PLANS &
INTERIOR
ELEVATIONS

Sheet Number:

A401

BH JOB NO. 22-036

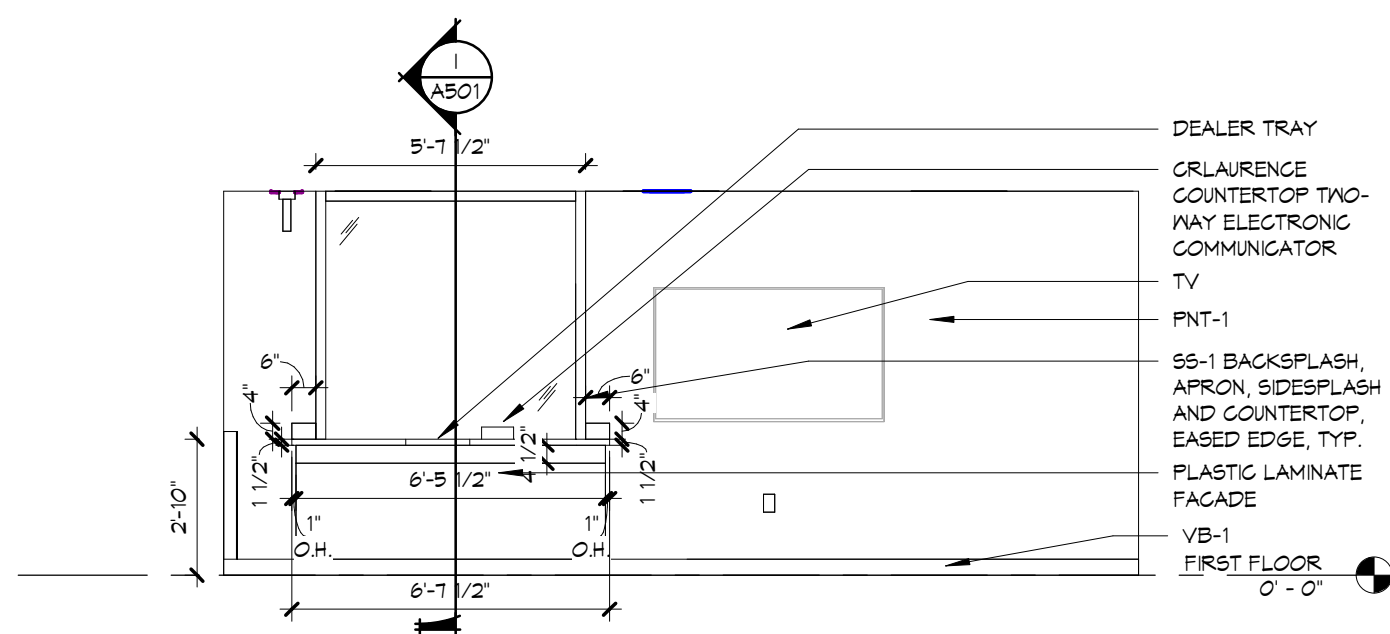
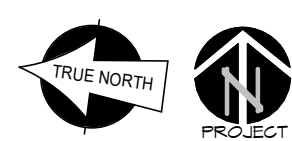
ISSUED FOR BIDDING



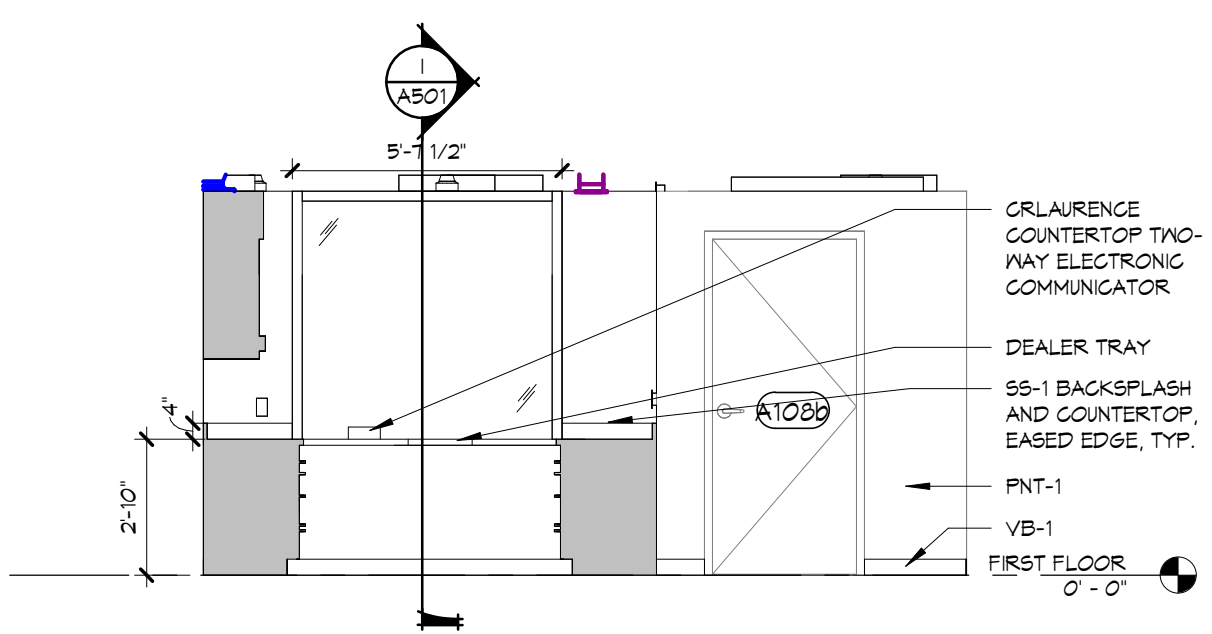
KEY PLAN - FLOOR 1
1" = 60'-0"



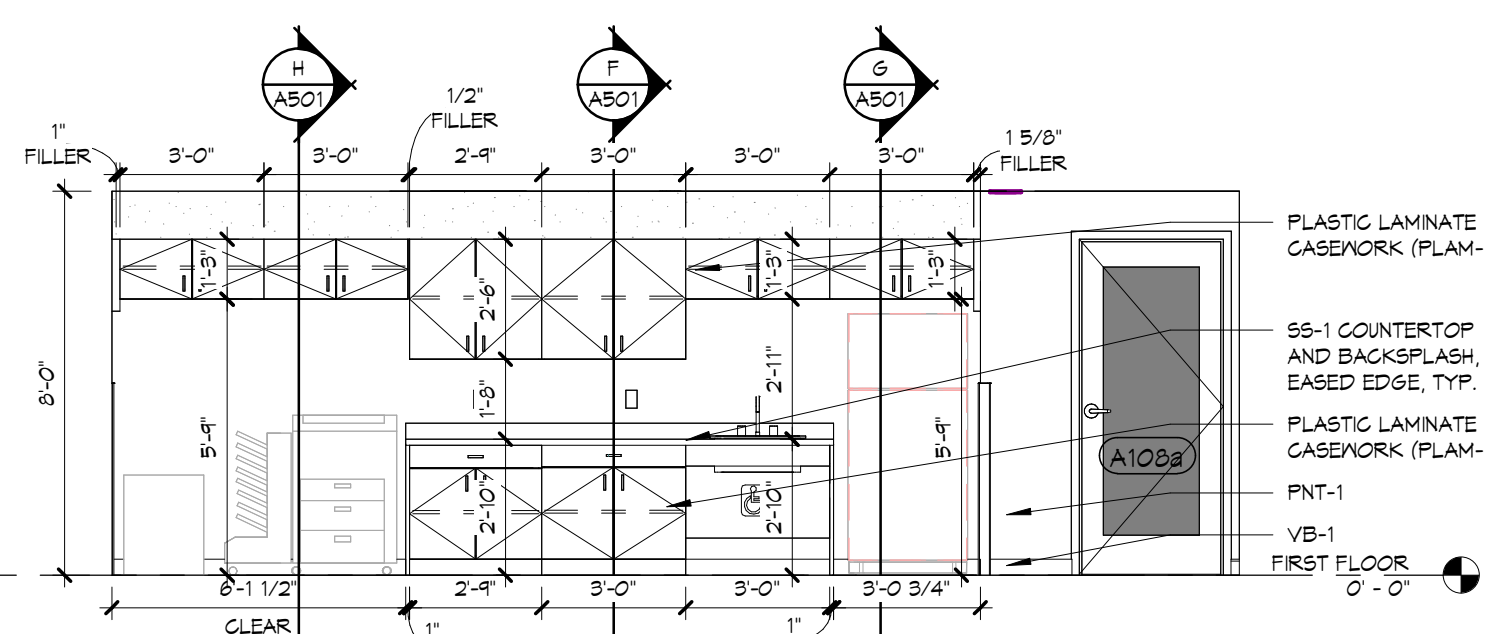
1 FIRST FLOOR
3/16" = 1'-0"



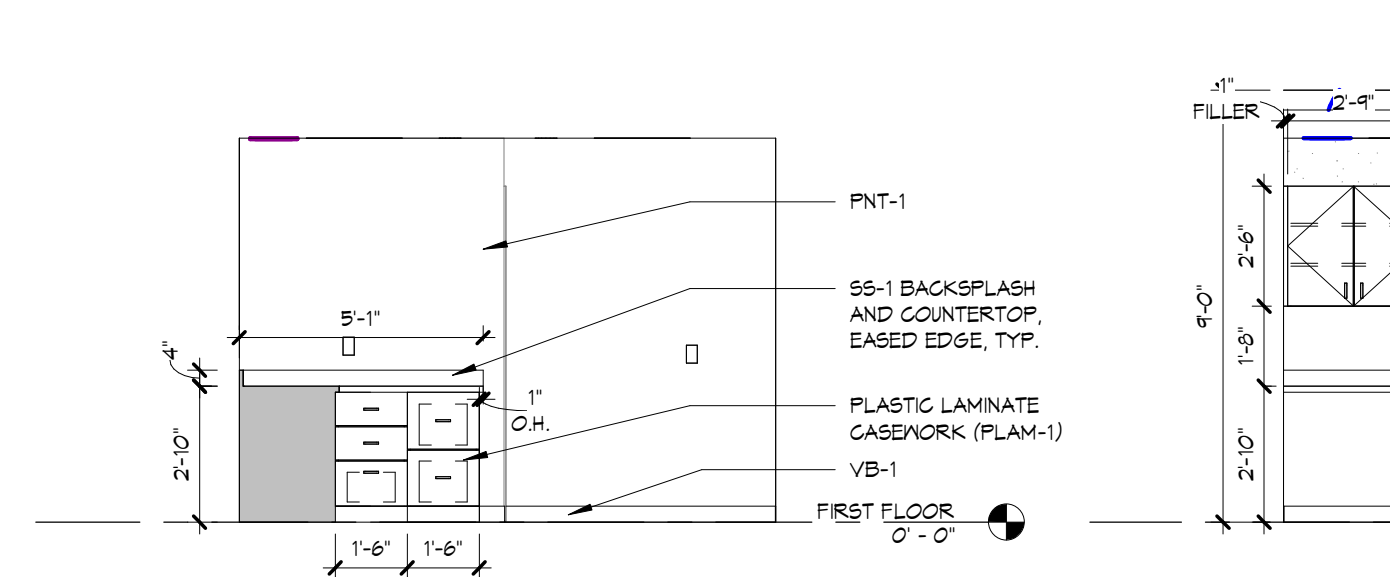
2 ELEVATION - RECEPTION
1/4" = 1'-0"



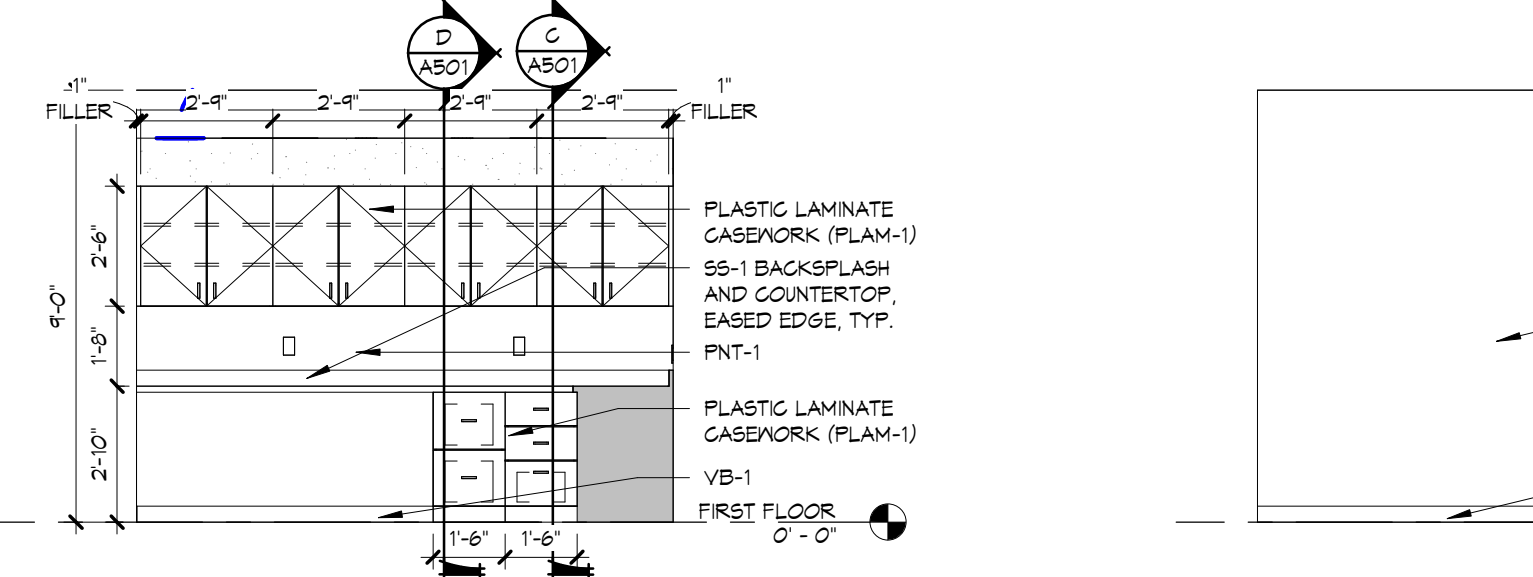
3 ELEVATION - RECEPTION
1/4" = 1'-0"



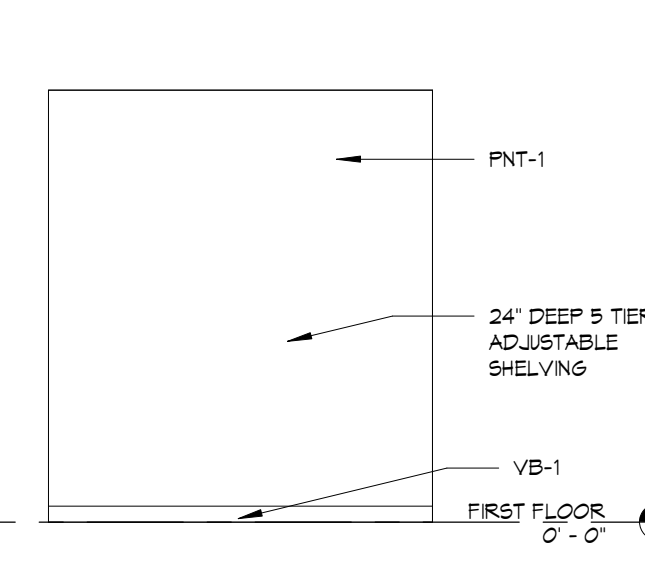
4 ELEVATION - COPY/PRINT
1/4" = 1'-0"



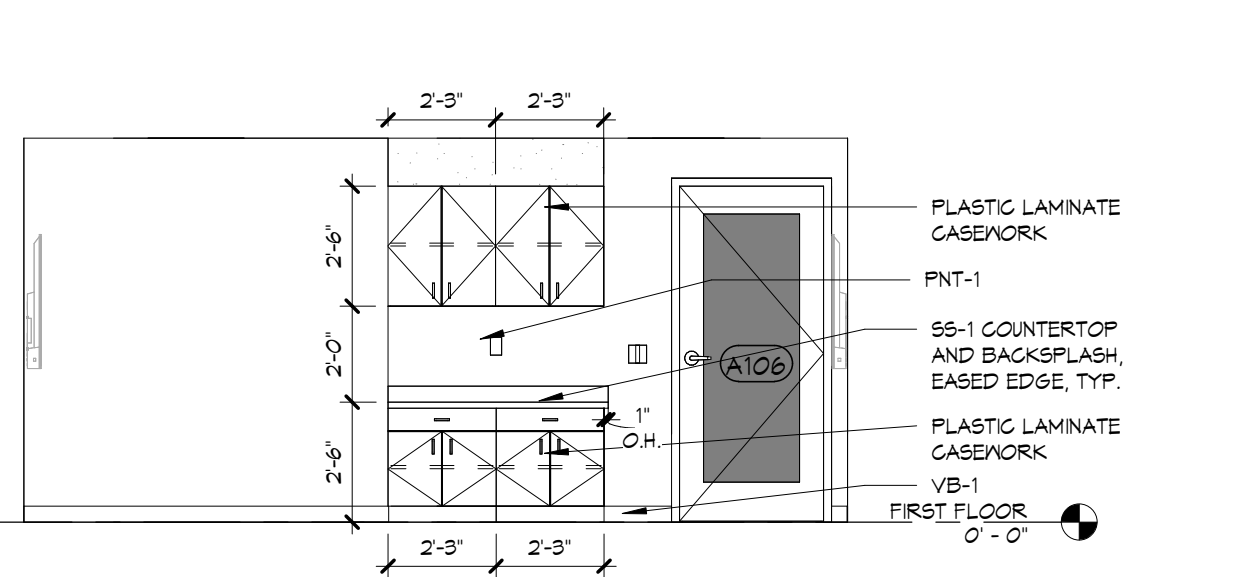
5 ELEVATION - RECEPTION
1/4" = 1'-0"



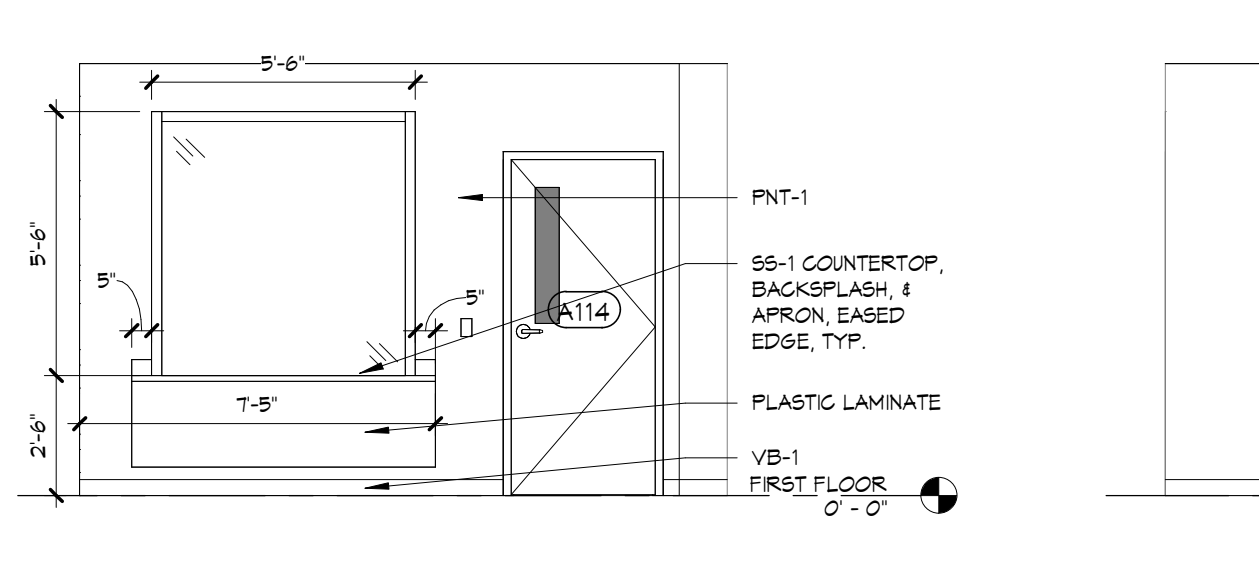
6 ELEVATION - RECEPTION
1/4" = 1'-0"



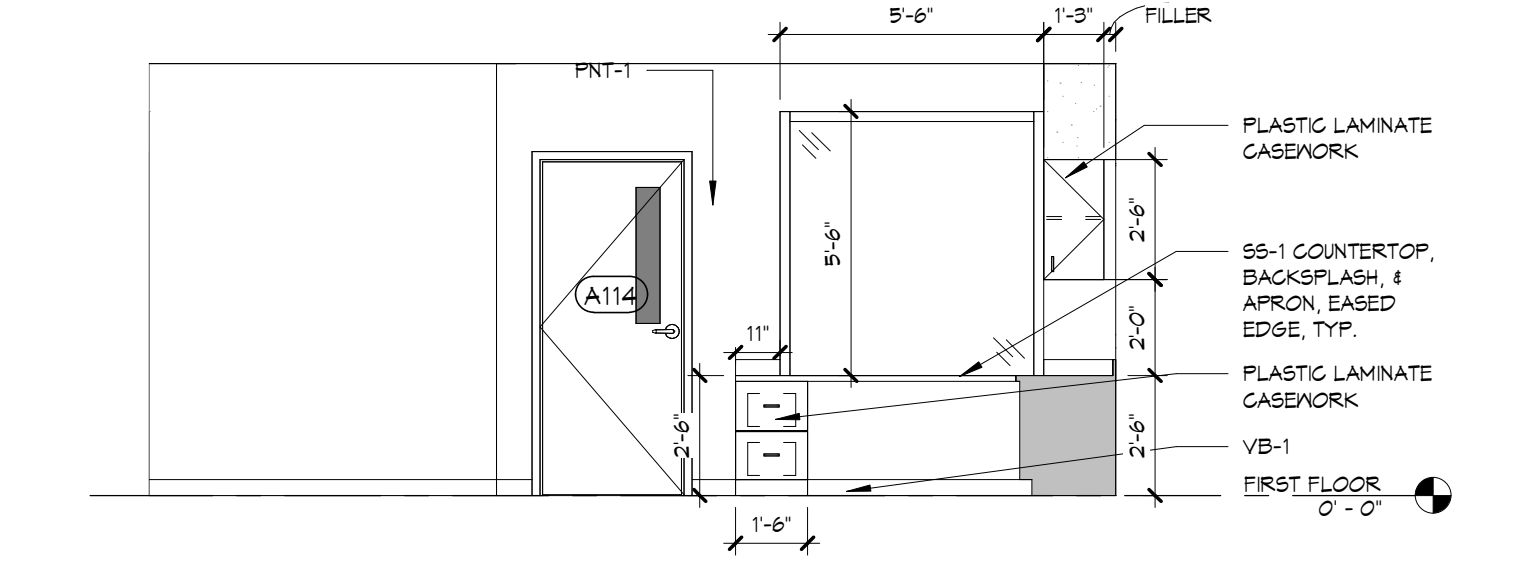
7 ELEVATION - OPEN OFFICE
1/4" = 1'-0"



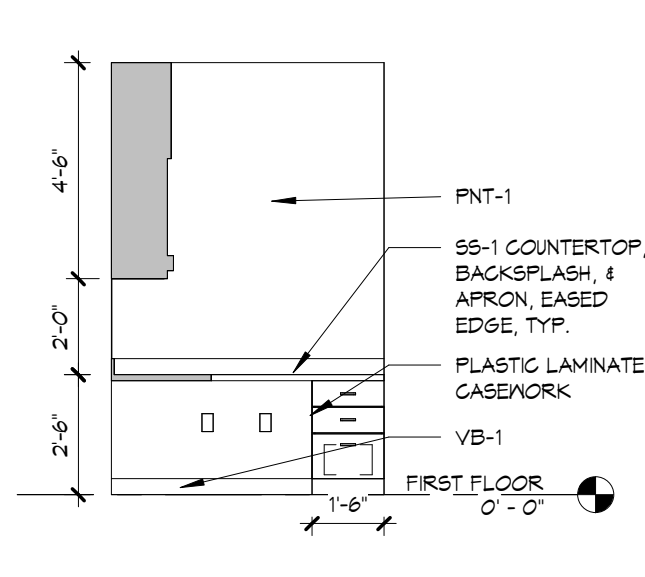
8 ELEVATION - CONFERENCE
1/4" = 1'-0"



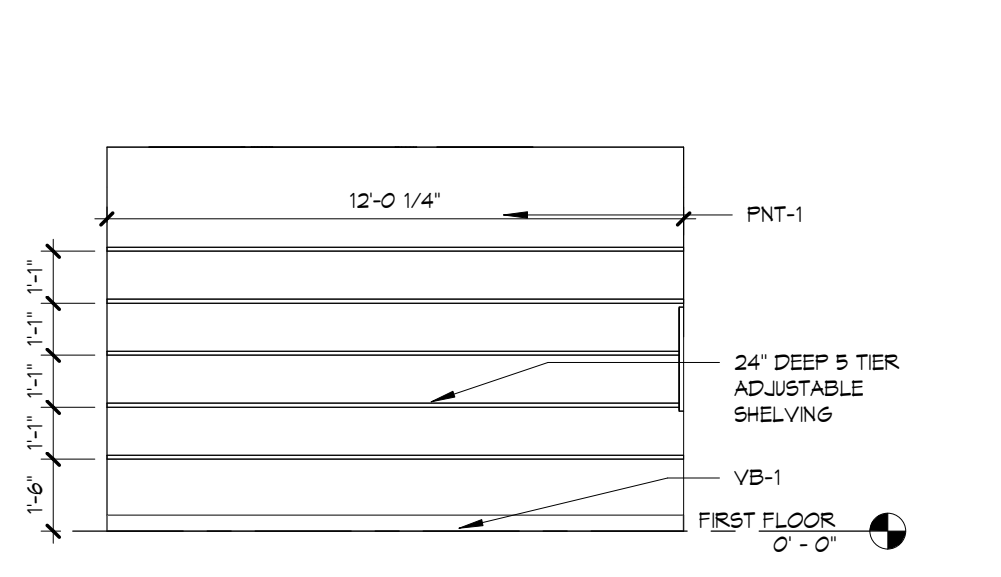
9 ELEVATION - RECEPTION
1/4" = 1'-0"



10 ELEVATION - RECEPTION
1/4" = 1'-0"



11 ELEVATION - RECEPTION
1/4" = 1'-0"



12 ELEVATION - CORRIDOR
1/4" = 1'-0"

GENERAL ELEV. NOTES

- ALL EXPOSED CASEWORK SIDES SHALL BE FINISHED PLASTIC LAMINATE - PLAM-1, TYP., UNO.
- ALL CASEWORK RECESSED TOE KICK SHALL BE PLAM-1, TYP., UNO.
- COUNTERTOP, BACKSPLASH AND SILL:
 - SOLID SURFACE - SS-1
 - WHITE MELAMINE INTERIORS
 - BRUSHED ALUMINUM BAR RAILS
 - FULL DRAWER DEPTH - IF APPLICABLE
 - FULL DEPTH ADJUSTABLE SHELVES - IF APPLICABLE
 - LATERAL FILING DRAWER SYSTEM - IF APPLICABLE
 - KEYING SYSTEM, EACH AREA TO BE KEYPED SEPARATELY FROM OTHER. PROVIDE MIN OF 3 MASTER KEY.
- ALL CASEWORK SHALL RECEIVE THE FOLLOWING:
 - CONCEALED HINGES W/ SOFT CLOSE
 - SOFT CLOSE DRAWERS/CLOSERS
 - WHITE MELAMINE INTERIORS
 - BRUSHED ALUMINUM BAR RAILS
 - FULL DRAWER DEPTH - IF APPLICABLE
 - FULL DEPTH ADJUSTABLE SHELVES - IF APPLICABLE
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TOILET ROOM FIXTURE SCHEDULE					
SYMBOL	DESCRIPTION	MANF	MODEL NO	MOUNT	REMARKS
TYPICAL TOILET ROOM - FLOOR 1					
MC-1	TOILET	-	-	FLOOR	BY PLUMBING CONTRACTOR
-	ACCESSIBLE TOILET	-	-	FLOOR	BY PLUMBING CONTRACTOR
UR-1	URINAL	-	-	WALL	BY PLUMBING CONTRACTOR
LAV-1	SINK	-	-	WALL	BY PLUMBING CONTRACTOR
-	FAUCET	-	-	SINK	BY PLUMBING CONTRACTOR
GB-42	GRAB BAR	BOBRICK	B-6006M42	WALL / PARTITION	HORIZONTAL
GB-36	GRAB BAR	BOBRICK	B-6006X36	WALL / PARTITION	HORIZONTAL
GB-18	GRAB BAR	BOBRICK	B-6006X18	WALL / PARTITION	VERTICAL
TA-1	TOILET TISSUE DISPENSER	BOBRICK	B-540	WALL / PARTITION	
TA-2	PAPER TOWEL DISPENSER	BOBRICK	B-4262	WALL	
TA-3	SOAP DISPENSER	BOBRICK	B-2012	WALL	
TA-4	FRAMED MIRROR	BOBRICK	B-240	WALL	24"X 36" H
TA-5	FRAMED MIRROR	BOBRICK	B-240	WALL	24"X 12" H
TA-6	STANDARD HOOK	BOBRICK	B-6111	PARTITION	
TA-7	NOT USED	-	-	-	
TA-8	SANITARY DISPOSAL	BOBRICK	B-201	WALL	
TA-9	BABY CHANGING STATION	BOBRICK	KB310-66RM	WALL	
TA-10	UTILITY SHELF UNIT	BOBRICK	B-224	WALL	
ALL ACCESSORIES TO BE MOUNTED PER ICC/ANSI 117.1-2011 REQUIREMENTS					
GENERAL NOTES:					
1. CONTRACTORS SHALL FIELD-VERIFY ALL FIXTURES AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY, PRIOR TO COMMENCEMENT OF ANY WORK.					
2. FIXTURE SCHEDULE FOR REPRESENTATION ONLY. GC TO VERIFY ALL TOILET ROOM FIXTURES AND ACCESSORIES WITH PLUMBING CONTRACTOR AND OWNER PRIOR TO COMMENCEMENT OF WORK.					
3. GENERAL CONTRACTOR TO PROVIDE REQUIRED BLOCKING FOR ALL TOILET ROOM FIXTURES AND ACCESSORIES.					
4. ALL MISCELLANEOUS TOILET ACCESSORIES TO BE SELECTED BY OWNER AND PROVIDED BY GENERAL CONTRACTOR.					

LEBANON COUNTY MUNICIPAL BUILDING PHASE II RENOVATIONS

400 South 8th St.
Lebanon, PA 17042

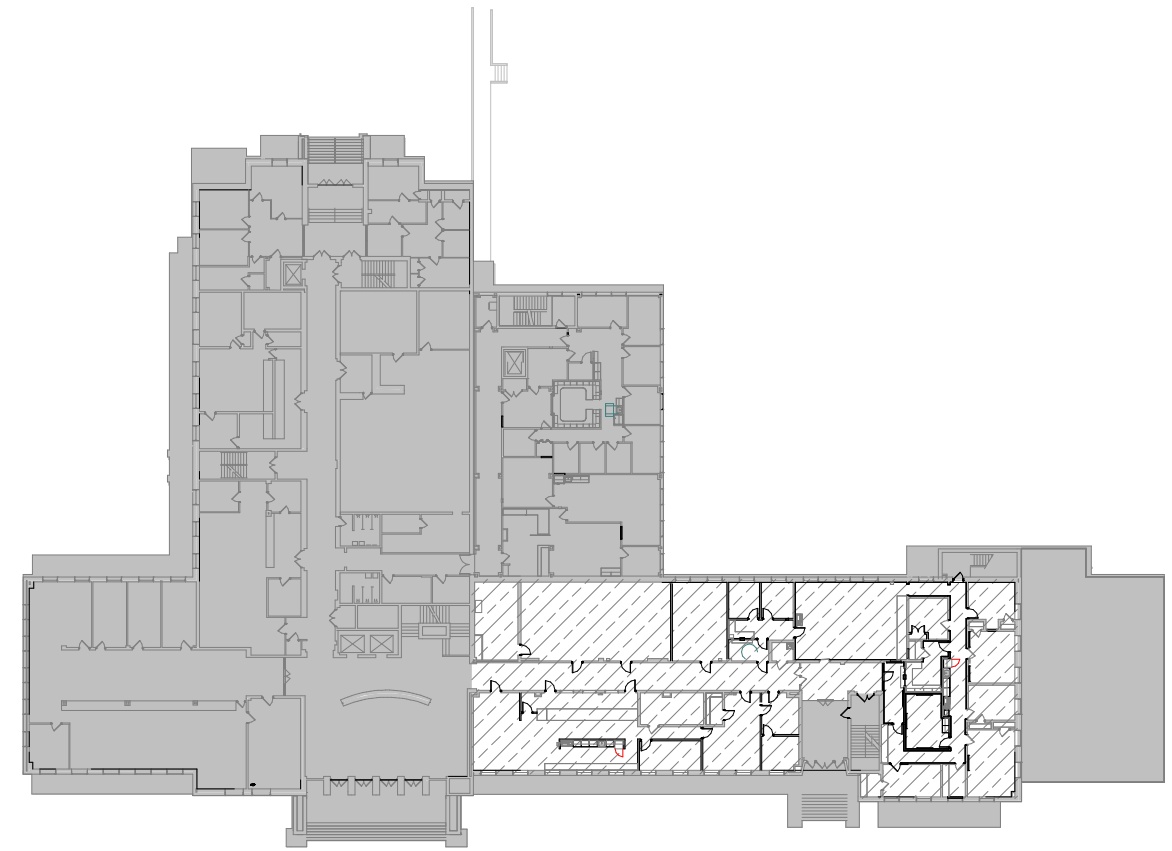
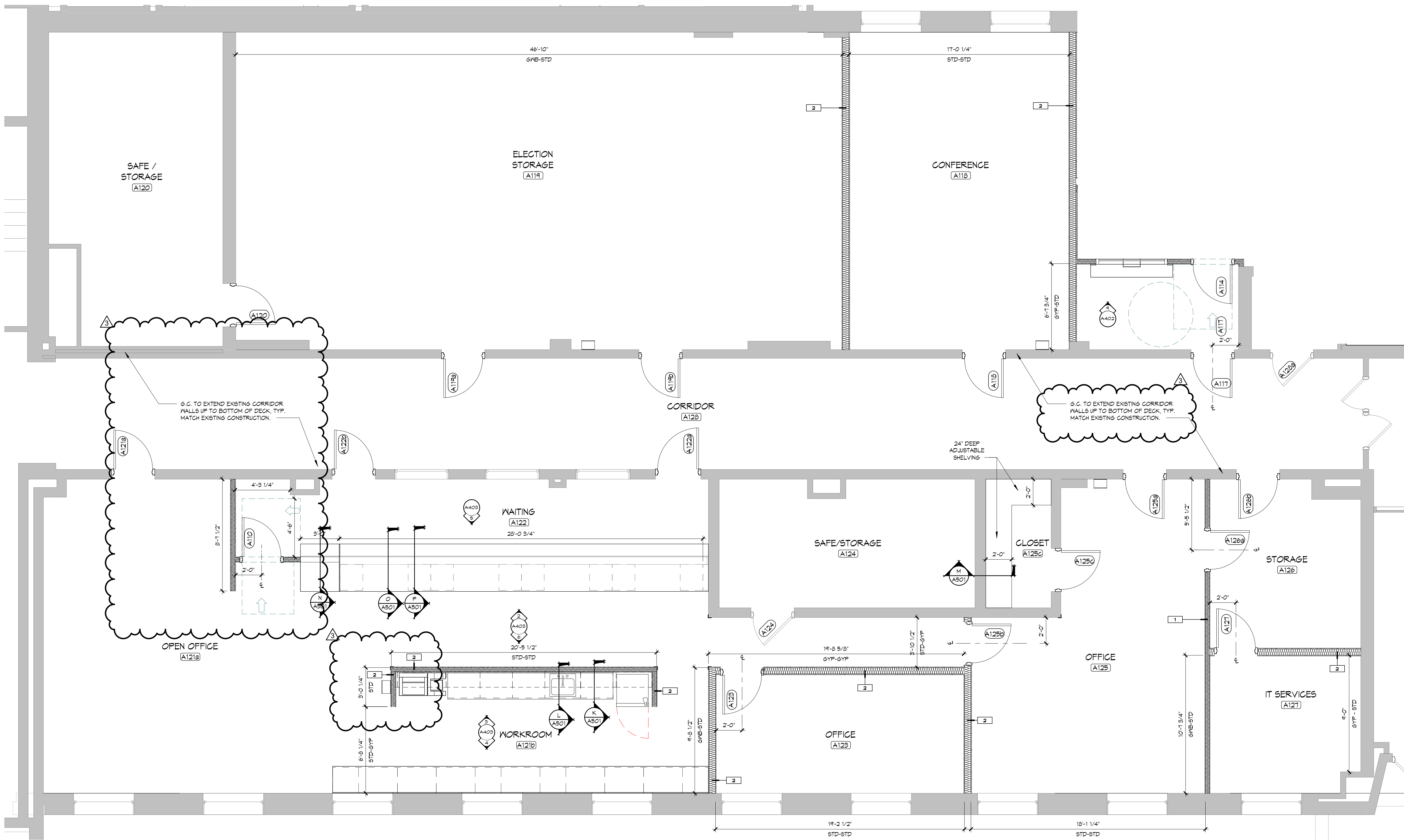
NO.	DATE	RELEASE
1	07.07.26	PROJECT SET
2	07.08	REVISED
3	07.08	REVISION NO.

Issue Date: 07.07.26
Drawn By: MD
Checked By: JS

ENLARGED
PLANS &
INTERIOR
ELEVATIONS

Sheet Number:
A402
BH JOB NO. 22-036

ISSUED FOR BIDDING



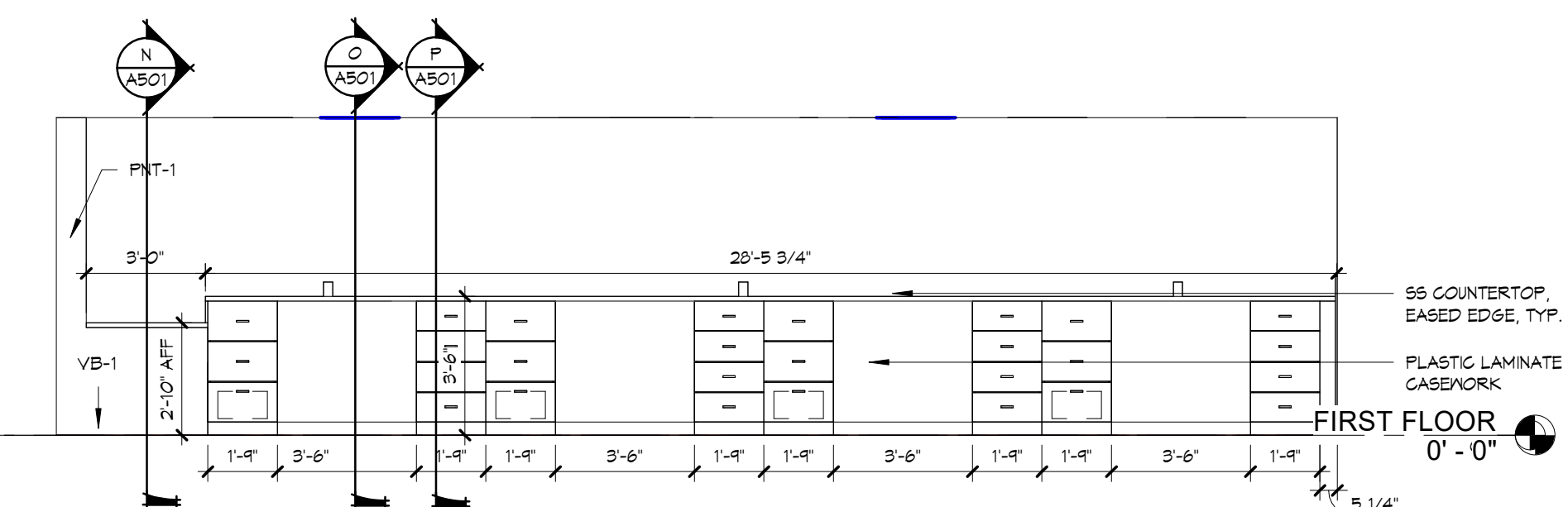
KEY PLAN - FLOOR 1
1" = 60'-0"



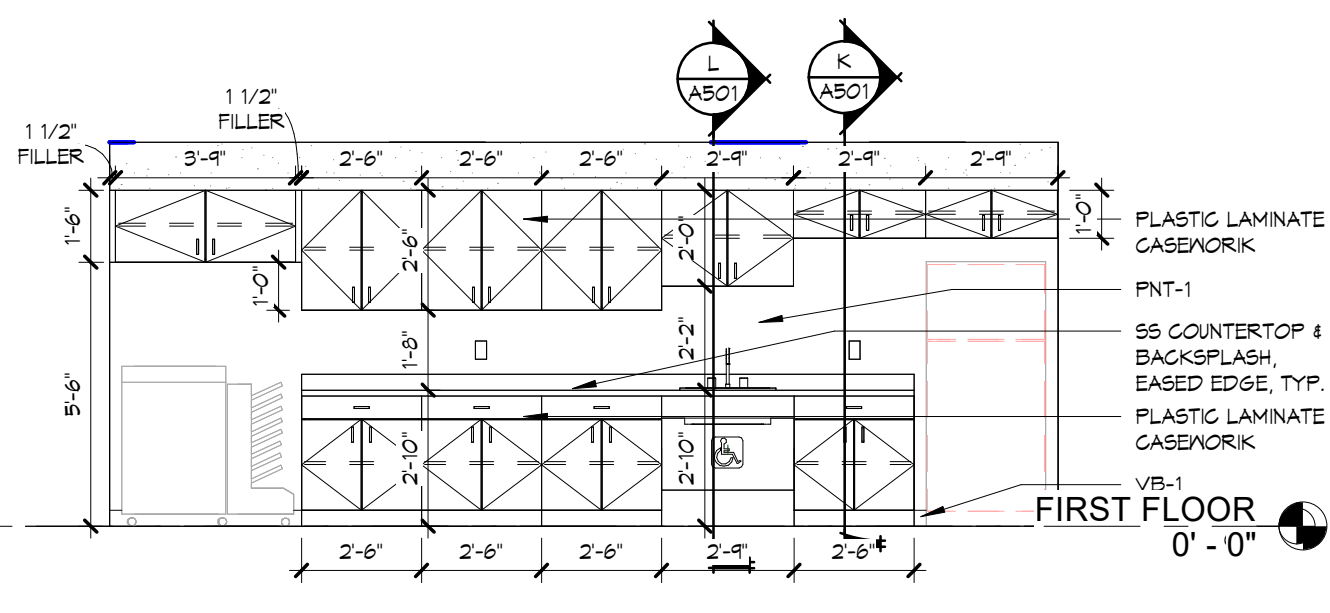
GENERAL ELEV. NOTES

- ALL EXPOSED CASEWORK SIDES SHALL BE FINISHED PLASTIC LAMINATE - PLAM-1, TYP. AND
- ALL CASEWORK RECESSED TOE KICK SHALL BE PLAM-1, TYP. AND
- COUNTERTOP, BACKSPLASH AND SILL:
 - SOLID SURFACE - SS-1
- RECEPTION DESK SHALL RECEIVE MIN. OF 3 GROMMETS.
 - MANIP. WOODSET
STYLE: 2 1/2" SOLID BRASS DESK GROMMET
COLOR: TBD. SS-1 TO SUBMIT COLOR FOR SELECTIONS
COLOR: TBD. SS-1 TO SUBMIT COLOR FOR SELECTIONS
- PROVIDE PLAM FACADE BENEATH ALL RECEPTION AREA PLAM COLOR. TBD. SS-1 TO SUBMIT COLOR FOR SELECTIONS
- PROVIDE VINYL BASE BEHIND ALL EQUIPMENT. TYP.
- VANITY APRON FOR ADA SINK SHALL BE PLAM-1, 3/4" MDF. SUBSTRATE, PROVIDE MIN. OF 1 ACCESSIBLE PANEL FOR PLUMBING ACCESS. G.C. TO CONFIRM SIZE OF SINK FITS WITHIN APRON. PROVIDE VINYL BASE, VB-1.
- ALL CASEWORK SHALL RECEIVE THE FOLLOWING:
 - CONCEALED HINGES IN SOFT CLOSE
 - SOFT CLOSE DRAWERS/CLOSERS
 - WHITE MELAMINE INTERIORS
 - BRUSHED ALUMINUM BAR FILLS
 - FULL DRAWER DEPTH - IF APPLICABLE
 - FULL DEPTH ADJUSTABLE SHELVES - IF APPLICABLE
 - LATERAL FILING DRAWER SYSTEM - IF APPLICABLE
 - KEYING SYSTEM. EACH AREA TO BE KEYED SEPARATELY FROM OTHER. PROVIDE MIN. OF 3 MASTER KEY.
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- PROVIDE CONCEALED METAL COUNTERTOP BRACKETS. SUBMIT DRAWINGS AND CUT SHEETS FOR APPROVAL.

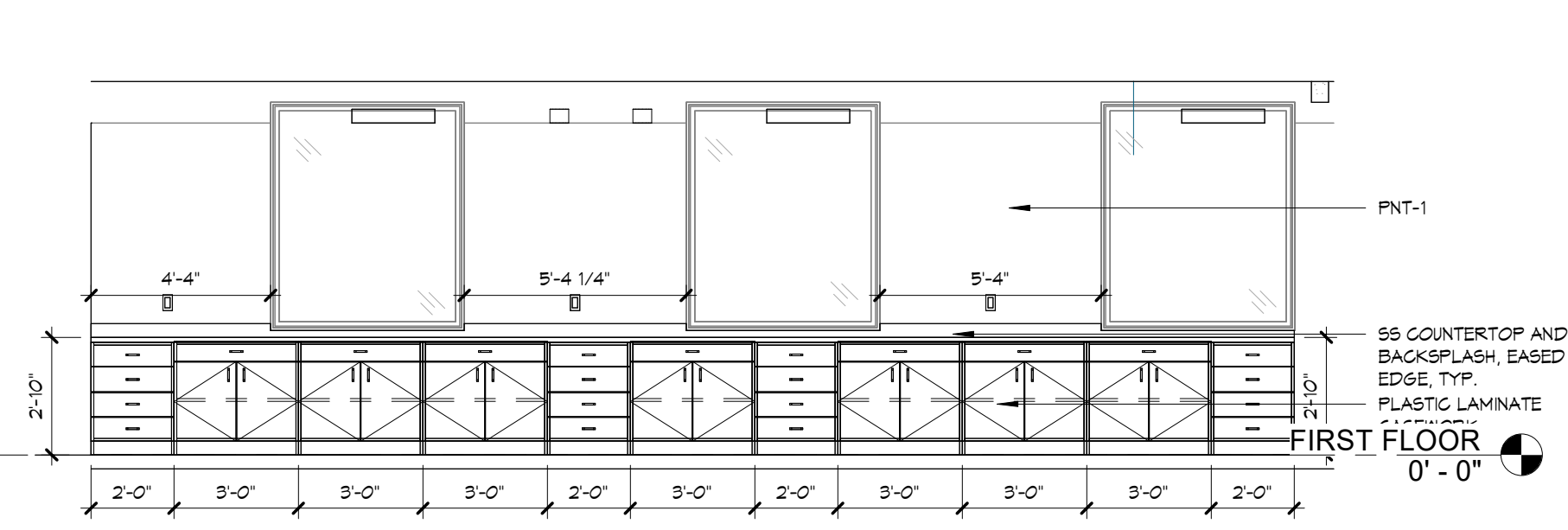
1 FIRST FLOOR
1/4" = 1'-0"



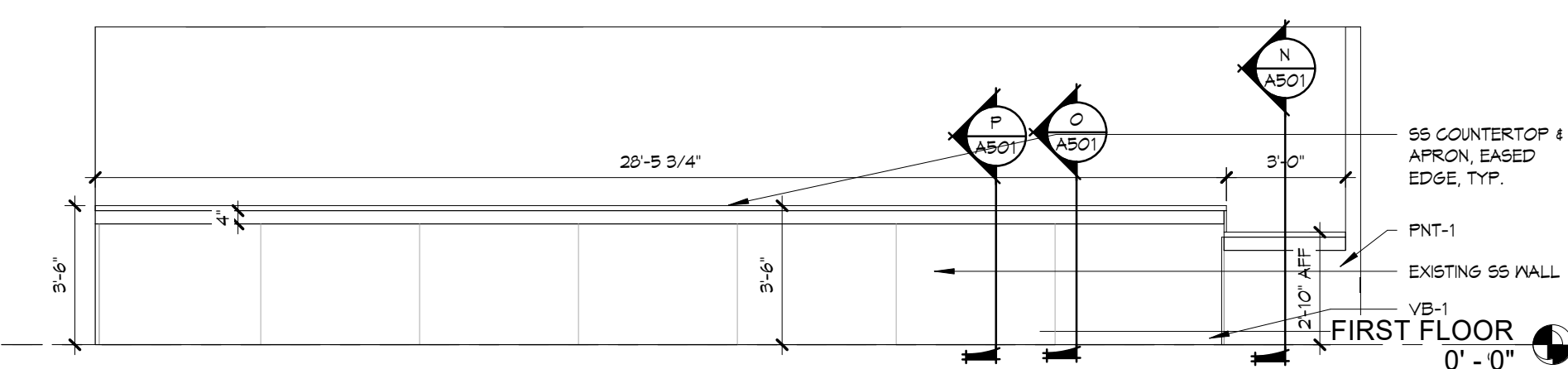
2 ELEVATION - WORKROOM
1/4" = 1'-0"



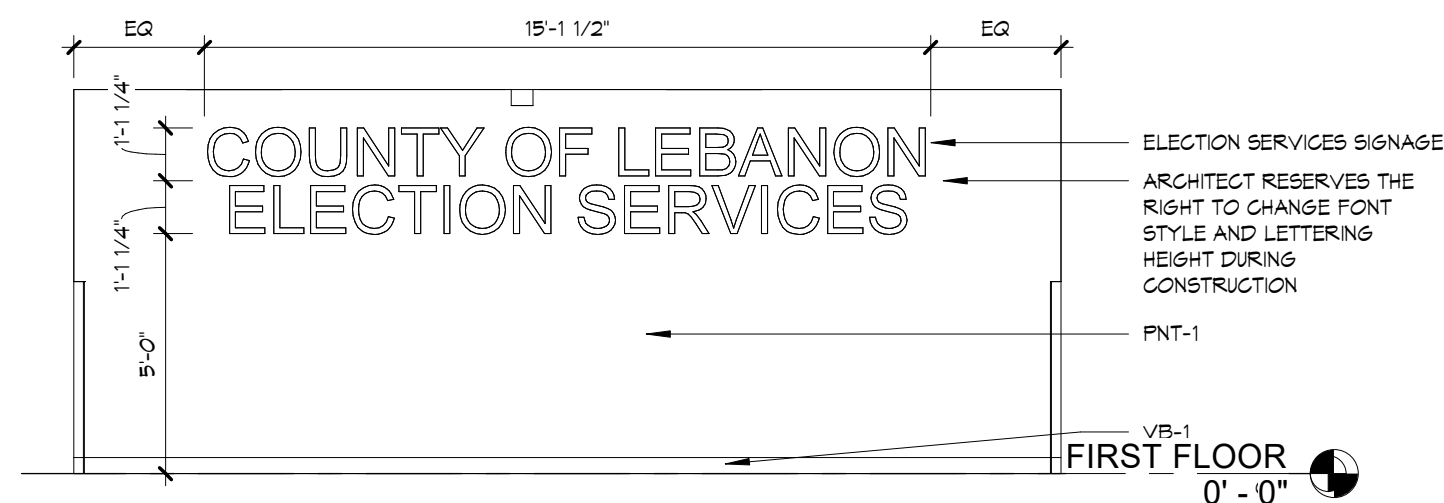
3 ELEVATION - WORKROOM
1/4" = 1'-0"



4 ELEVATION - WORKROOM
1/4" = 1'-0"



5 ELEVATION - WAITING
1/4" = 1'-0"



6 ELECTION SERVICES SIGNAGE
1/4" = 1'-0"

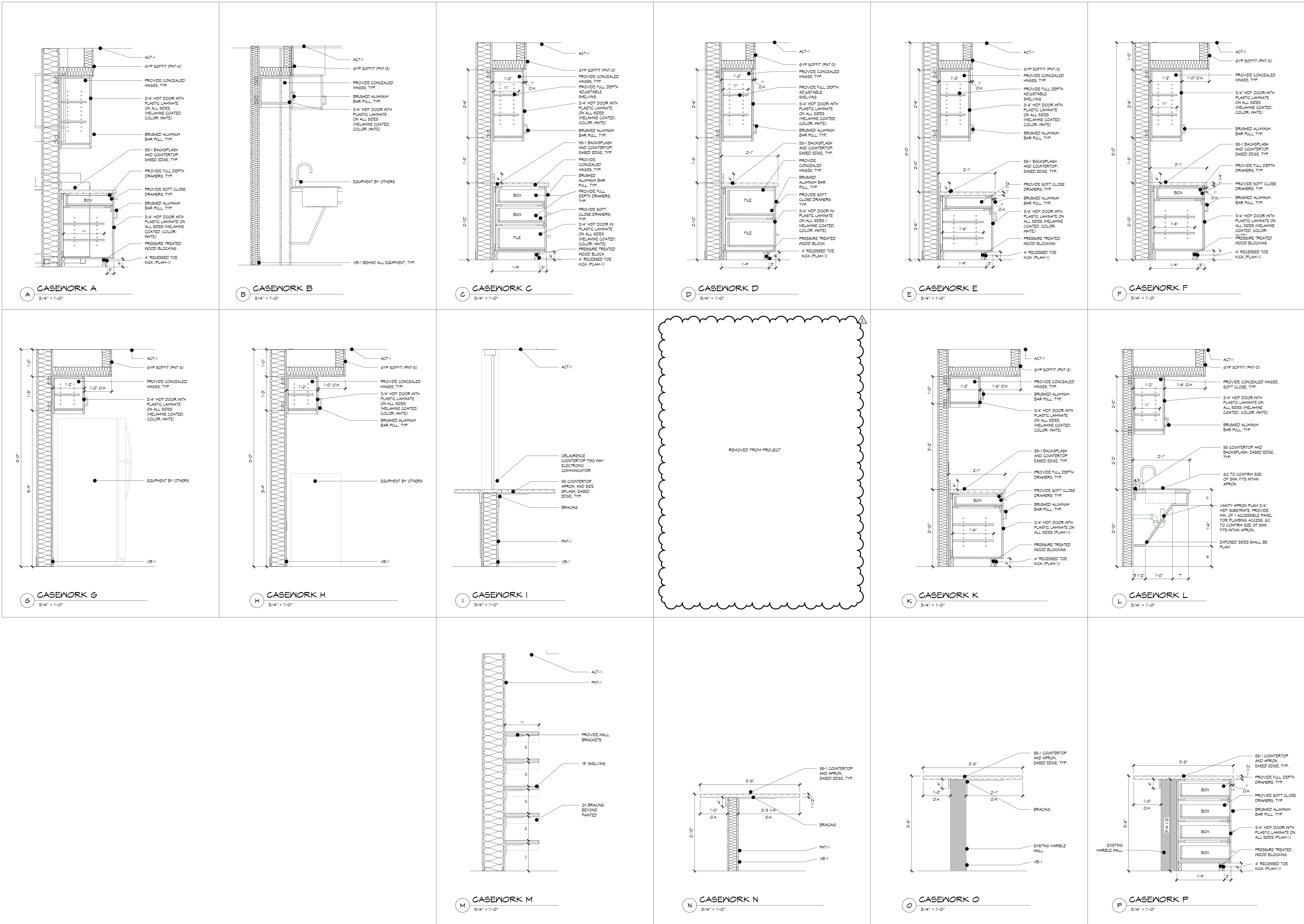
NO.	DATE	RELEASE
1	07.01.26	ISSUE SET
2	07.01.26	REVISION
3	07.01.26	REVISION

Issue Date: 07.01.26
Drawn By: MO
Checked By: JS

ENLARGED
PLANS &
INTERIOR
ELEVATIONS

Sheet Number:
A403
BH JOB NO. 22-036

ISSUED FOR BIDDING



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LEBANON COUNTY MUNICIPAL BUILDING
PHASE II RENOVATIONS
400 South 8th St.
Lebanon, PA 17042

NO.	DATE	RELEASE
1	01/21/26	PROJECT SET
2	02/05/26	REVIT
3	01/10/26	REVISION NO.1

Issue Date: 01.01.26
Drawn By: MO
Checked By: JS

Interior Details

Sheet Number:
A501

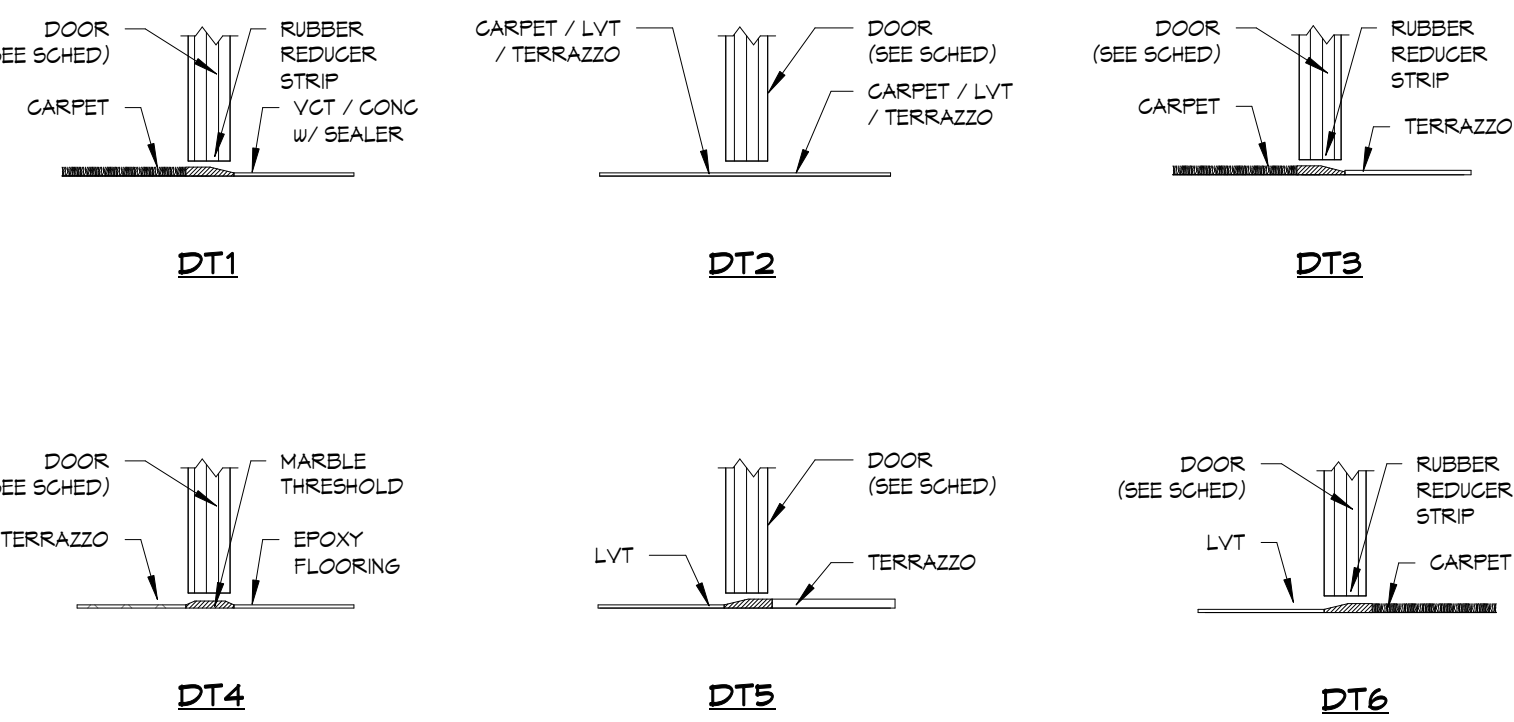
BH JOB NO. 22-036

ISSUED FOR BIDDING

DOOR SCHEDULE																				
Door #	Room Name	Room Number	Panel Type	Door Panel				Frame		Detail				Fire Rating	Hardware Set	Door #	Comments			
				Width	Height	Thkns	Matl	Finish	Glazing	Type	Matl	Finish	Head					Jamb	Threshold	
GROUND FLOOR																				
A001a	CORRIDOR	A001	G	6'-0"	T'-0"	1 3/4"	HM	SF1	SS	HM1	HM	SF1	DH1	DJ1	DT2	---	A001a	---	---	
A001b	STAIR	A001	N	3'-0"	T'-0"	1 3/4"	HM	SF1	FS	ETR	ETR	FFB	---	---	---	60 MIN	A001b	4	---	
A002	CONFERENCE	A002	F	3'-0"	T'-0"	1 3/4"	HM	SF1	---	ETR	ETR	FFB	---	---	---	---	A002	1	---	
A002a	CLOSET	A002a	F	2'-6"	T'-0"	1 3/4"	MD	FF1	---	ETR	ETR	FFB	---	---	---	---	A002a	1	---	
A002b	CLOSET	A002b	F	2'-6"	T'-0"	1 3/4"	MD	FF1	---	ETR	ETR	FFB	---	---	---	---	A002b	1	---	
A003	OFFICE	A003	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	ETR	ETR	FFB	---	---	---	---	A003	1	---	
A004	CONFERENCE	A004	F	3'-0"	T'-0"	1 3/4"	HM	SF1	---	ETR	ETR	FFB	---	---	---	---	A004	1	---	
A005	DRUG TASK FORCE	A005	F	3'-0"	T'-0"	1 3/4"	HM	SF1	---	---	HM1	HM	SF1	DH1	DJ1	DT3	---	A005	2	---
A006	OFFICE	A006	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	HM1	HM	SF1	DH1	DJ1	DT2	---	A006	---	---	
A007	OFFICE	A007	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	HM1	HM	SF1	DH1	DJ1	DT2	---	A007	---	---	
A008	OFFICE	A008	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	HM1	HM	SF1	DH1	DJ1	DT2	---	A008	---	---	
A009	RESTROOM	A009	F	3'-0"	T'-0"	1 3/4"	HM	SF1	---	ETR	ETR	FFB	---	---	---	---	A009	1	---	
A010	CLOSET	A010	F	3'-0"	T'-0"	1 3/4"	HM	SF1	---	ETR	ETR	FFB	---	---	---	---	A010	1	---	
A011	RESTROOM	A011	F	3'-0"	T'-0"	1 3/4"	HM	SF1	---	ETR	ETR	FFB	---	---	---	---	A011	1	---	
A012a	CORRIDOR	A012	G	3'-0"	T'-0"	1 3/4"	HM	FF4	SS	SF1	HM	FF4	---	---	---	---	A012a	---	---	
A012b	CORRIDOR	A012	N	3'-0"	T'-0"	1 3/4"	HM	FF5	---	---	ETR	ETR	FFB	---	---	ETR	60 MIN	A012b	---	---
A013	INTERVIEW	A013	F	3'-0"	T'-0"	1 3/4"	MD	FF1	---	HM1	HM	SF1	DH1	DJ1	DT6	---	A013	---	---	
A014	OBSERVATION	A014	F	3'-0"	T'-0"	1 3/4"	MD	FF1	---	HM1	HM	SF1	DH1	DJ1	DT6	---	A014	---	---	
A015	OFFICE	A015	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	HM1	HM	SF1	DH1	DJ1	DT2	---	A015	---	---	
A016	OFFICE	A016	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	HM1	HM	SF1	DH1	DJ1	DT2	---	A016	---	---	
A017	OPEN OFFICE	A017	F	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	SF2	HM	SF1	---	---	---	---	A017	---	---	
A017a	STORAGE	A017a	F	2'-6"	T'-0"	1 3/4"	MD	FF1	---	ETR	ETR	FFB	---	---	---	---	A017a	1	---	
A018	OFFICE	A018	N	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	ETR	ETR	FFB	---	---	---	---	A018	1	---	
A019	OFFICE	A019	N	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	ETR	ETR	FFB	---	---	---	---	A019	1	---	
A020	OFFICE	A020	N	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	ETR	ETR	FFB	---	---	---	---	A020	1	---	
A021	OFFICE	A021	N	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	ETR	ETR	FFB	---	---	---	---	A021	1	---	
A022	OFFICE	A022	N	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	HM1	HM	SF1	DH2	DH2	DT6	---	A022	---	---	
A023	EVIDENCE	A023	F	3'-0"	T'-0"	1 3/4"	HM	SF1	---	HM1	HM	SF1	---	---	---	---	A023	2, 4	---	
A025	LAB	A019	N	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	HM1	HM	SF1	DH2	DJ2	DT6	---	A025	---	---	
FIRST FLOOR																				
A001	STAIRS	A100	N	3'-0"	T'-0"	1 3/4"	HM	SF1	FS	ETR	ETR	FFB	---	---	---	60 MIN	A001	---	---	
A001c	STAIRS	A100	N	3'-0"	T'-0"	1 3/4"	HM	SF1	FS	ETR	ETR	FFB	---	---	---	60 MIN	A001c	---	---	
A101a	WAITING	A101	N	3'-0"	6'-4"	1/2"	ETR	ETR	ETR	ETR	---	---	---	---	---	---	A101a	---	---	
A102a	CORRIDOR	A102	N	3'-0"	T'-0"	1 3/4"	MD	FF1	SS	HM1	HM	SF1	DH1	DJ1	DT6	---	A102a	---	---	
A102b	CORRIDOR	A102	N	3'-0"	T'-0"	1 3/4"	HM	SF1	FS	ETR	ETR	FFB	---	---	---	60 MIN	A102b	---	---	
A103	OFFICE	A103	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	ETR	ETR	FFB	---	---	---	---	A103	1	---	
A103a	SAFE	A103a	F	2'-6"	T'-0"	1 3/4"	MD	FF1	---	ETR	ETR	FFB	---	---	---	---	A103a	1	---	
A104	STORAGE	A104	F	2'-6"	T'-0"	1 3/4"	MD	FF1	---	HM1	HM	SF1	---	---	---	---	A104	1	---	
A105	OFFICE	A105	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	ETR	ETR	FFB	---	---	---	---	A105	1	---	
A105b	CLOSET	A105b	F	3'-0"	T'-0"	1 3/4"	MD	FF1	---	ETR	ETR	FFB	---	---	---	---	A105b	1	---	
A106	CONFERENCE	A106	F6	3'-0"	T'-0"	1 3/4"	MD	FF2	CT	HM1	HM	SF1	DH1	DJ1	DT2	---	A106	---	---	
A107	OFFICE	A107	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	ETR	ETR	FFB	---	---	---	---	A107	1	---	
A107b	CLOSET	A107b	F	2'-6"	T'-0"	1 3/4"	MD	FF1	---	ETR	ETR	FFB	---	---	---	---	A107b	1	---	
A108a	RECEPTION	A108	F6	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	HM1	HM	SF1	DH1	DJ1	DT2	---	A108a	---	---	
A108b	CLOSET	A108	F	3'-0"	T'-0"	1 3/4"	MD	FF1	---	ETR	ETR	FFB	---	---	---	---	A108b	1	---	
A109a	OFFICE	A109	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	ETR	ETR	FFB	---	---	---	---	A109a	1	---	
A109b	CLOSET	A109	F	2'-6"	T'-0"	1 3/4"	MD	FF1	---	ETR	ETR	FFB	---	---	---	---	A109b	1	---	
A110a	OFFICE	A110	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	ETR	ETR	FFB	---	---	---	---	A110a	---	---	
A110b	CLOSET	A110	F	4'-0"	T'-0"	1 3/4"	MD	FF1	---	ETR	ETR	FFB	---	---	---	---	A110b	---	---	
A111a	OFFICE	A111	G	3'-0"	T'-0"	1 3/4"	MD	FF5	CT	ETR	ETR	FFB	---	---	---	---	A111a	---	---	
A111b	CLOSET	A111	F	2'-6"	T'-0"	1 3/4"	MD	FF5	---	ETR	ETR	FFB	---	---	---	---	A111b	---	---	
A113a	OPEN OFFICE	A113	F6	3'-0"	T'-0"	1 3/4"	MD	FF5	ETR	ETR	ETR	FFB	---	---	---	---	A113a	3	---	
A113b	OPEN OFFICE	A113	F6	3'-0"	T'-0"	1 3/4"	MD	FF5	CT	HM1	HM	SF1	DH2	DJ2	DT2	---	A113b	---	---	
A114	RECEPTION	A114	N	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	HM1	HM	SF1	DH1	DJ1	DT2	---	A114	---	---	
A115	OFFICE	A115	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	HM1	HM	SF1	DH1	DJ1	DT2	---	A115	---	---	
A116	OFFICE	A116	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	HM1	HM	SF1	DH1	DJ1	DT2	---	A116	---	---	
A117	WAITING	A117	F6	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	HM2	HM	SF1	DH2	DJ2	DT3	---	A117	---	---	
A118	CONFERENCE	A118	G	3'-0"	T'-0"	1 3/4"	MD	FF1	---	ETR	ETR	FFB	---	---	---	---	A118	---	---	
A119a	MULTIPURPOSE	A119	G	3'-0"	T'-0"	1 3/4"	HM	SF1	SS	ETR	ETR	FFB	---	---	---	---	A119a	---	---	
A119b	MULTIPURPOSE	A119	G	3'-0"	T'-0"	1 3/4"	HM	SF1	SS	ETR	ETR	FFB	---	---	---	---	A119b	---	---	
A120	SAFE/STORAGE	A120	F	3'-0"	T'-0"	1 3/4"	MD	FF1	---	ETR	ETR	FFB	---	---	---	---	A120	---	---	
A121a	WORKROOM	A121a	F	3'-0"	T'-0"	1 3/4"	HM	SF1	---	ETR	ETR	FFB	---	---	---	---	A121a	---	---	
A122a	WAITING	A122	F6	3'-2"	T'-0"	1 3/4"	HM	SF1	SS	ETR	ETR	FFB	---	---	---	---	A122a	---	---	
A122b	WAITING	A122	F6	3'-0"	T'-0"	1 3/4"	HM	SF1	SS	ETR	ETR	FFB	---	---	---	---	A122b	---	---	
A123	OFFICE	A123	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	HM1	HM	FFB	DH1	DJ2	DT2	---	A123	---	---	
A124	SAFE/STORAGE	A124	F	3'-0"	T'-0"	1 3/4"	ETR	FF5	---	ETR	ETR	FFB	---	---	---	---	A124	---	---	
A125a	OFFICE	A125	F	3'-0"	T'-0"	1 3/4"	HM	SF1	---	ETR	ETR	FFB	---	---	---	---	A125a	---	---	
A125b	OFFICE	A125	G	3'-0"	T'-0"	1 3/4"	MD	FF1	CT	HM1	HM	FFB	DH1	DJ1	DT2	---	A125b	---	---	
A125c	CLOSET	A125	F	3'-0"	T'-0"	1 3/4"	MD	FF1	---	ETR	ETR	FFB	---	---	---	---	A125c	---	---	
A126a	STORAGE	A126	F	3'-0"	T'-0"	1 3/4"	MD	FF1	---	HM1	HM	FFB	DH1	DJ1	DT2	---	A126a	---	---	
A126b	STORAGE	A126	F	3'-0"	T'-0"	1 3/4"	HM	SF1	---	ETR	ETR	FFB	---	---	---	---	A126b	---	---	
A127	IT SERVICES	A127	F	3'-0"	T'-0"	1 3/4"	MD	FF1	---	HM1	HM	FFB	DH1	DJ1	DT2	---	A127	---	---	
A128a	CORRIDOR	A128	F	3'-0"	T'-0"	1 3/4"	EX	FF5	---	EX	EX	FFB	---	---	---	---	A128a	---	---	

DOOR SCHEDULE COMMENTS

1. PROVIDE NEW DOOR IN EXISTING FRAME. EXISTING FRAME TO BE PATCHED, REPAIRED AND REFINISHED. SEE FINISH SCHEDULE.
2. NEW DOOR FRAME SHALL MATCH EXISTING.
3. EXISTING DOOR AND FRAME TO BE PATCHED AND REPAIRED. S.G. TO REPAINT EXISTING DOOR AND FRAME. DOOR TO BE SEALED TO BE IMPERMEABLE.
4. PROVIDE ONE (1) 3'-0" WIDE AND ONE (1) 2'-0" WIDE DOOR LEAF.



DOOR THRESHOLD
1 1/2" x 1'-0"

DOOR & WINDOW NOTES AND ABBREVIATIONS

GENERAL NOTES - DOORS:

DIMENSIONAL:
DOORS ARE 1-3/4" THICK UNLESS NOTED OTHERWISE.
DOORS TO HAVE A 3/4" UNDERCUT UNLESS NOTED OTHERWISE.
BOTTOM 10" OF PUSH SIDE OF DOOR TO BE A SMOOTH SINGLE PLANE.
BOTTOM EDGE OF VISION LITES TO BE NO HIGHER THAN 45" ABOVE FINISHED FLOOR.
HOLLOW METAL FRAMES TO HAVE A 2" FACE UNLESS NOTED OTHERWISE.

CONSTRUCTION:
HOLLOW METAL DOORS TO HAVE HEADS CAPPED FLUSH WITH TOP EDGE.
HOLLOW METAL DOOR PAGES TO BE SEAMLESS 18 GA. STRETCHER LEVEL STEEL.
HOLLOW METAL FRAME N DRYWALL OPENINGS - KNOCK DOWN FRAMES UNLESS NOTED OTHERWISE.
HOLLOW METAL FRAME N MASONRY OPENINGS - CORNERS TO BE WELDED UNLESS NOTED OTHERWISE.
HOLLOW METAL FRAMES TO BE 18 GA. WITH # 6A. REINFORCEMENT.
HOLLOW METAL FRAMES TO HAVE THREE ANCHORS PER JAMB. ANCHORS TO MEET LABEL REQUIREMENTS.
ALL EXTERIOR METAL DOORS AND FRAMES TO BE GALVANIZED UNLESS NOTED OTHERWISE.
HOLLOW METAL FRAMES ARE TO BE DOUBLE RABBET UNLESS NOTED AS:
SINGLE RABBET, DOUBLE RABBET, DOUBLE ACTING/GAISED

INSTALLATION:
DOOR SWINGS TO MATCH INDICATION ON PLANS.
PROVIDE A MINIMUM OF 4" FROM PERPENDICULAR PARTITION TO FACE OF BACKSIDE.
PROVIDE A MINIMUM OF 10" FROM PERPENDICULAR PARTITION TO DOOR EDGE, FULL SIDE.
PROVIDE A MINIMUM OF 12" CLEAR TO LATCH FROM PERPENDICULAR PARTITION TO DOOR EDGE, PUSH SIDE.
PLAN DIMENSIONS ARE LOCATING THE OUTSIDE OF THE FRAME.

HARDWARE:
ALL EXTERIOR DOORS TO BE WEATHER-STRIPPED.
ALL RATED DOORS TO HAVE SMOKE SEALS.
DOOR HANDLES SHALL BE THE LEVER TYPE AND MEET ANSI A104.28.
HARDWARE LOCATIONS AND REINFORCEMENT TO BE PER SD.

TYPICAL FRAME DEPTHS:

HOLLOW METAL FRAMES ARE TO BE 5-3/4" DEEP UNLESS NOTED OTHERWISE.
ALUMINUM FRAMES ARE TO BE 4-1/2" DEEP UNLESS NOTED OTHERWISE.
WOOD FRAMES ARE TO BE 5" DEEP UNLESS NOTED OTHERWISE.
STEEL FRAMES ARE TO BE 6-1/2" x 2-0" CHANNELS UNLESS NOTED OTHERWISE.

ABBREVIATIONS LEGEND:

DOOR MATERIAL:
HM HOLLOW METAL
IM INSULATED METAL
AL ALUMINUM
ST STEEL
MD STAIN-GRADE WOOD
EX EXISTING
PM WOOD GRAIN METAL
PMD PAINT-GRADE WOOD
FG FIBERGLASS
PL PLASTIC LAMINATE
SS STAINLESS STEEL
FB FABRIC

FRAME MATERIAL:
HM HOLLOW METAL
IM INSULATED METAL
AL ALUMINUM
ST STEEL
EX EXISTING
MD STAIN-GRADE WOOD
PMD PAINT-GRADE WOOD
LIM LUMBER

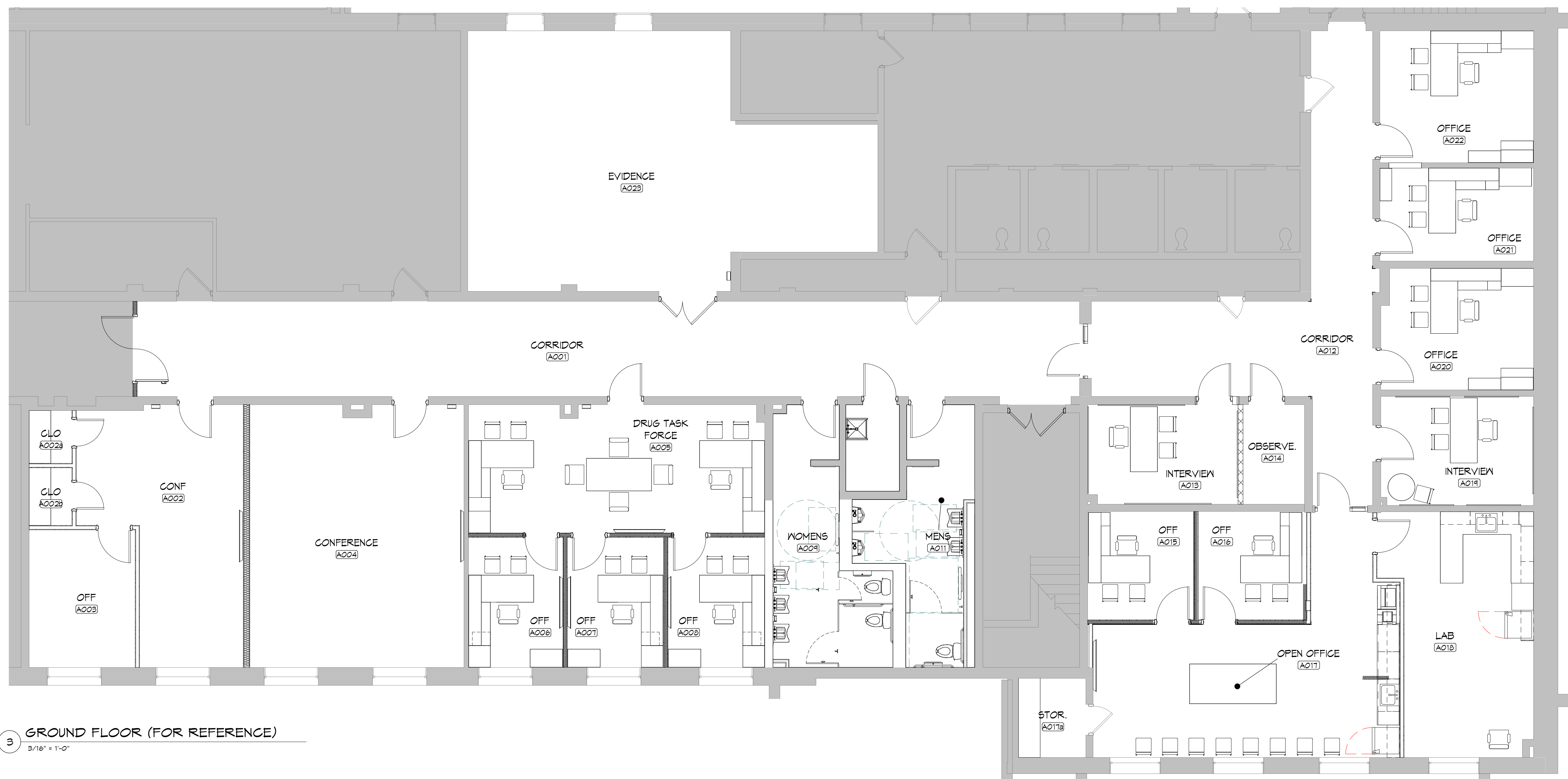
RATINGS:
20 20 MINUTES
45 45 MINUTES
60 60 MINUTES
90 90 MINUTES

GLASS:
FS FIRE RATED SAFETY GLAZING
S SINGLE SAFETY GLAZING
IV INSULATED VISION GLAZING
DV DOUBLE INSULATED VISION GLAZING
SV SINGLE VISION GLAZING
SP INSULATED SPANDREL PANEL
S SPECIAL GLAZING
CT CLEAR TEMPERED GLASS 1/4" THICKNESS

FINISHES:
SF1 SITE AP



2 FIRST FLOOR (FOR REFERENCE)
3/16" = 1'-0"



3 GROUND FLOOR (FOR REFERENCE)
3/16" = 1'-0"

LEBANON COUNTY MUNICIPAL BUILDING
PHASE II RENOVATIONS
400 South 8th St.
Lebanon, PA 17042

NO. DATE RELEASE
1 01.01.20 01.01.20
2 01.01.20 01.01.20
3 01.01.20 01.01.20

Issue Date: 01.01.20
Drawn By: MD
Checked By: JS

FURNITURE PLAN
(FOR REFERENCE)

Sheet Number:
A804

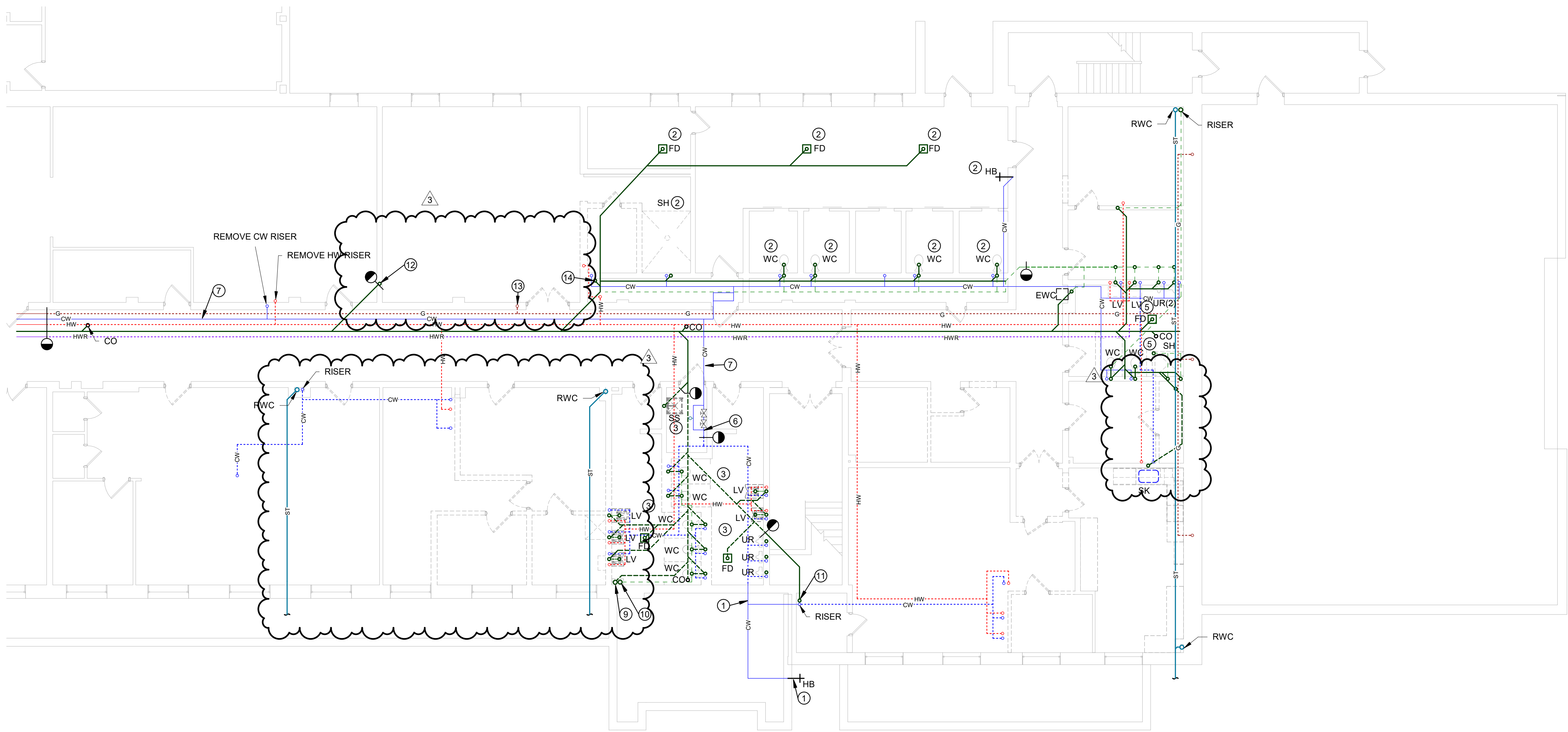
BH JOB NO. 22-036

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22-036 LEBANON COUNTY MUNICIPAL BUILDING PHASE II RENOVATIONS

ISSUED FOR BIDDING



① GROUND FLOOR PLUMBING DEMOLITION
1/8" = 1'-0"

GENERAL NOTES:

1. SANITARY LINES TO BE CAPPED AFTER REMOVAL SO NO DEMOLITION MATERIALS GET IN THE SANITARY LINES.
2. CLOSE VALVES AT DOMESTIC WATER LINES AND CAP WATER LINES WHERE DEMOLITION STOPS.
3. ALL SANITARY LINES, AND RAIN WATER CONDUCTORS SHOWN ARE UNDERGROUND FLOOR SLAB. ALL VENTS AND DOMESTIC HOT/COLD WATER LINES SHOWN ARE ABOVE THE CEILING ON THIS FLOOR UNLESS OTHERWISE NOTED.

DRAWING NOTES:

1. DOMESTIC PIPES BELOW FLOOR IN THIS AREA TO BE ABANDONED.
2. EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING AND APPURTENANCES TO REMAIN.
3. REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING AND APPURTENANCES BACK TO POINT(S) SHOWN AND PREPARE FOR REPLACEMENT FIXTURE.
4. CONNECT NEW DOMESTIC WATER LINES INTO EXISTING TO REMAIN.
5. REMOVE ANY FIXTURE NOT REMOVED IN ABATEMENT PHASE. ALL UNDERGROUND PIPING TO BE CAPPED AND ABANDONED. ALL ASSOCIATED PIPING AND APPURTENANCES ABOVE CEILING TO BE DEMO'D.
6. PRESSURE REDUCING VALVE, PRESSURE GAUGE, SHUT OFF VALVES, AND STRAINER TO REMAIN.
7. EXISTING DOMESTIC COLD WATER PIPING UNDERGROUND.
8. HOSE BIB TO BE DEMO'D, CAPPED AND WALL TO BE PATCHED TO MATCH EXISTING BY M.C.
9. REMOVE EXISTING SANITARY STACK UP TO FIRST FLOOR CEILING.
10. REMOVE EXISTING VENT STACK UP TO FIRST FLOOR CEILING.
11. CAP AND ABANDON SANITARY DROP IN TO SLAB.
12. REMOVE SANITARY STACK TO SLAB. PREPARE FOR NEW CONNECTION AT SLAB.
13. REMOVE GAS RISER TO ABOVE.
14. EXISTING SANITARY DROP FROM ABOVE TO REMAIN.

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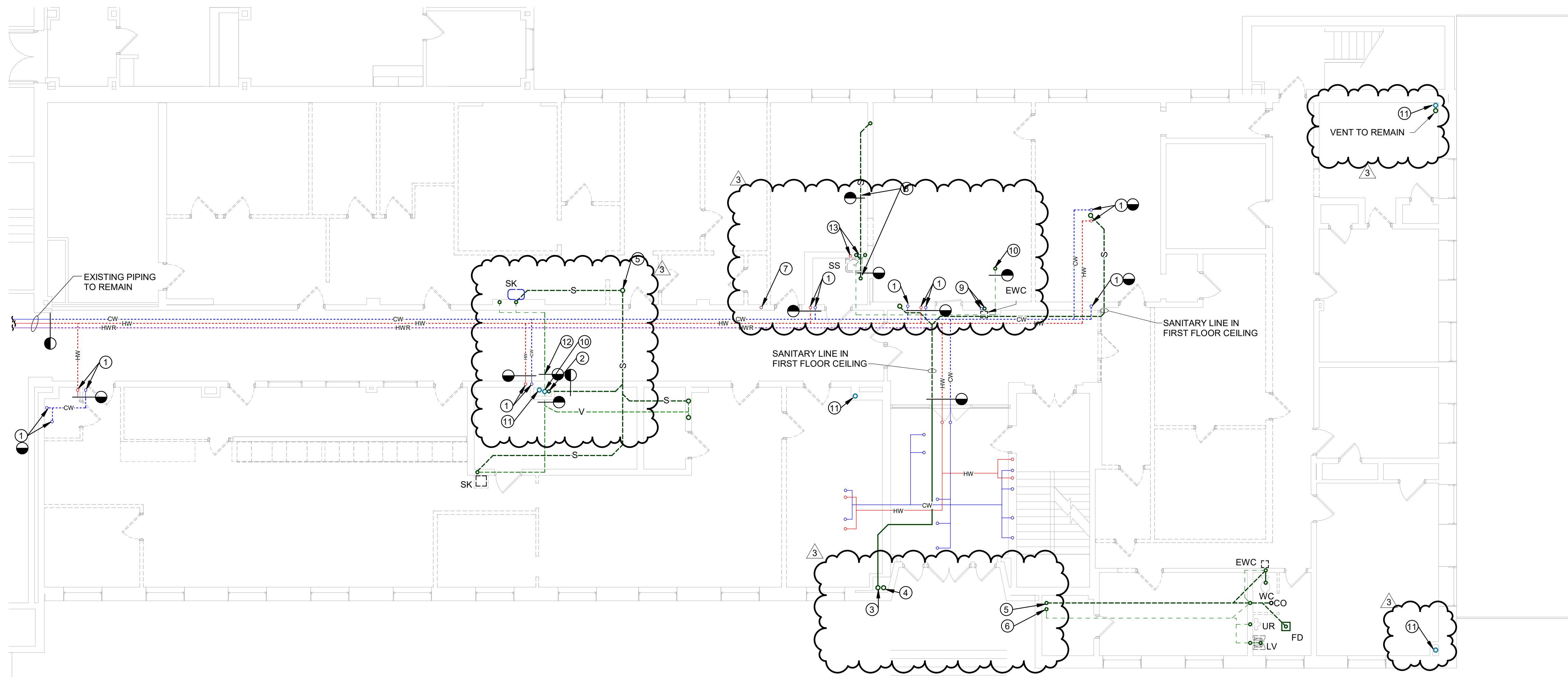
NO.	DATE	RELEASE
1	07/01/26	ISSUED FOR BIDDING
2	07/01/26	REVISION
3	07/01/26	REVISION

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Drawn By: Author
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GROUND FLOOR
PLUMBING
DEMOLITION

Sheet Number:
P101
BH JOB NO. 22-038_26006

ISSUED FOR BIDDING



1 FIRST FLOOR PLUMBING DEMOLITION
1/8" = 1'-0"

- GENERAL NOTES:**
- SANITARY LINES TO BE CAPPED AFTER REMOVAL SO NO DEMOLITION MATERIALS GET IN THE SANITARY LINES.
 - CLOSE VALVES AT DOMESTIC WATER LINES AND CAP WATER LINES.
 - ALL SANITARY LINES, AND RAIN WATER CONDUCTORS SHOWN ARE UNDERGROUND FLOOR SLAB. ALL VENTS, DOMESTIC HOT/COLD WATER LINES, AND GAS LINES SHOWN ARE ABOVE CEILING ON THIS FLOOR UNLESS OTHERWISE NOTED.
 - ALL NEW PIPING SHALL BE INSTALLED PRIOR TO DEMO OF THE EXISTING PIPING TO LIMIT THE AMOUNT OF TIME THE SECOND FLOOR PLUMBING FIXTURES WILL BE UNUSABLE.

- DRAWING NOTES:**
- PIPE RISERS TO REMAIN.
 - SANITARY DROP FROM SECOND FLOOR TO REMAIN.
 - REMOVE SANITARY STACK FROM FIRST FLOOR CEILING, DOWN TO BELOW GROUND FLOOR SLAB.
 - REMOVE VENT STACK FROM FIRST FLOOR CEILING, DOWN TO GROUND FLOOR CEILING.
 - REMOVE SANITARY STACK FROM FIRST FLOOR CEILING, DOWN TO GROUND FLOOR SLAB.
 - CAP AND ABANDON VENT STACK IN FIRST FLOOR CEILING.
 - REMOVE GAS RISER FROM BELOW. CAP AND ABANDON GAS RISER TO THE ABOVE FLOORS.
 - EXISTING SANITARY RUN AND DROP TO REMAIN. PREPARE FOR NEW SANITARY RECONNECTION.
 - CAP AND ABANDON SANITARY DROP AND CW RISER FROM GROUND FLOOR.
 - VENT STACK TO SECOND FLOOR CEILING TO REMAIN. PREPARE FOR NEW CONNECTION.
 - RAIN WATER CONDUCTOR TO REMAIN.
 - REMOVE VENT BACK TO THIS POINT AND CAP.
 - DEMO AND CAP HW AND CW RISERS FROM BELOW.

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Lebanon, PA 17042

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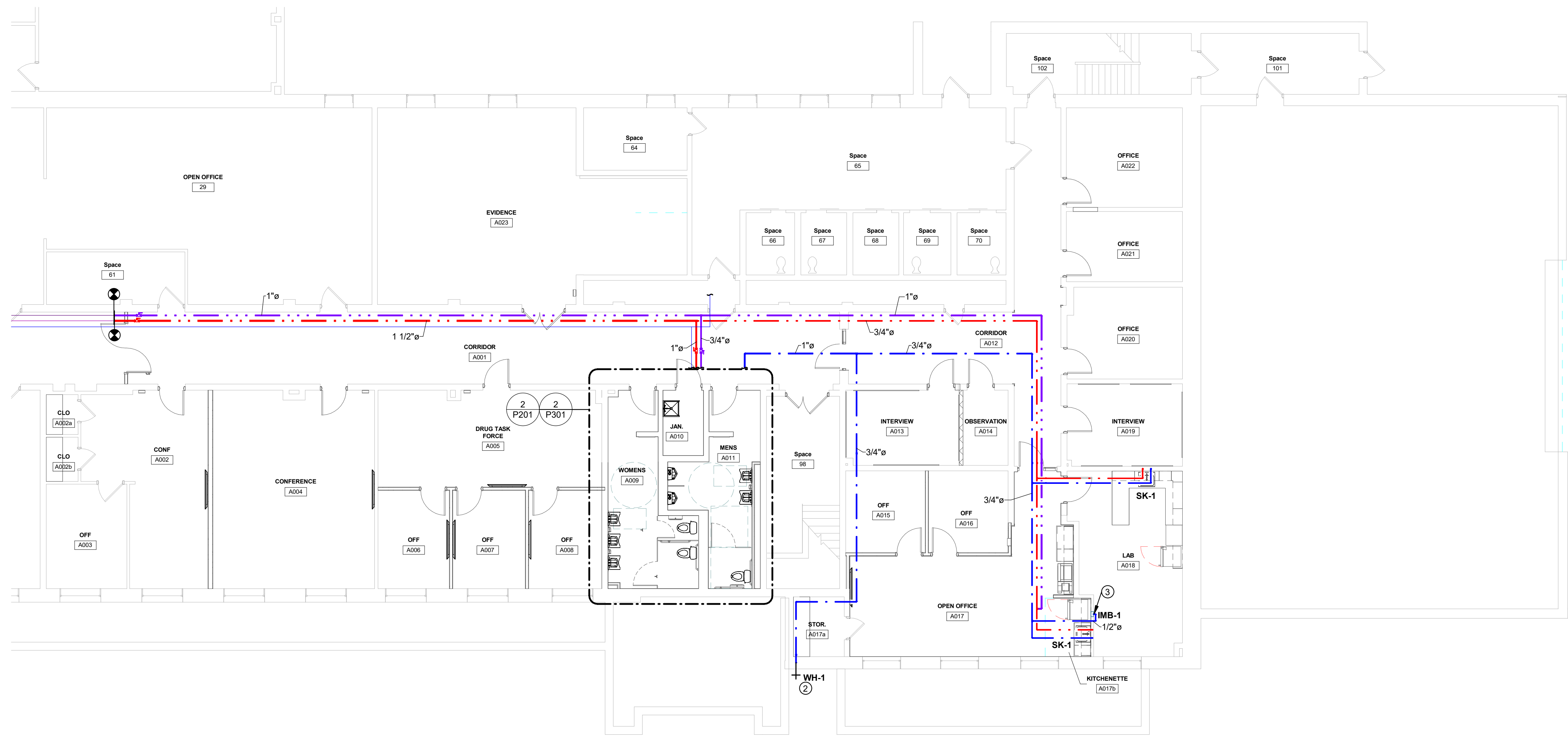
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FIRST FLOOR PLUMBING DEMOLITION

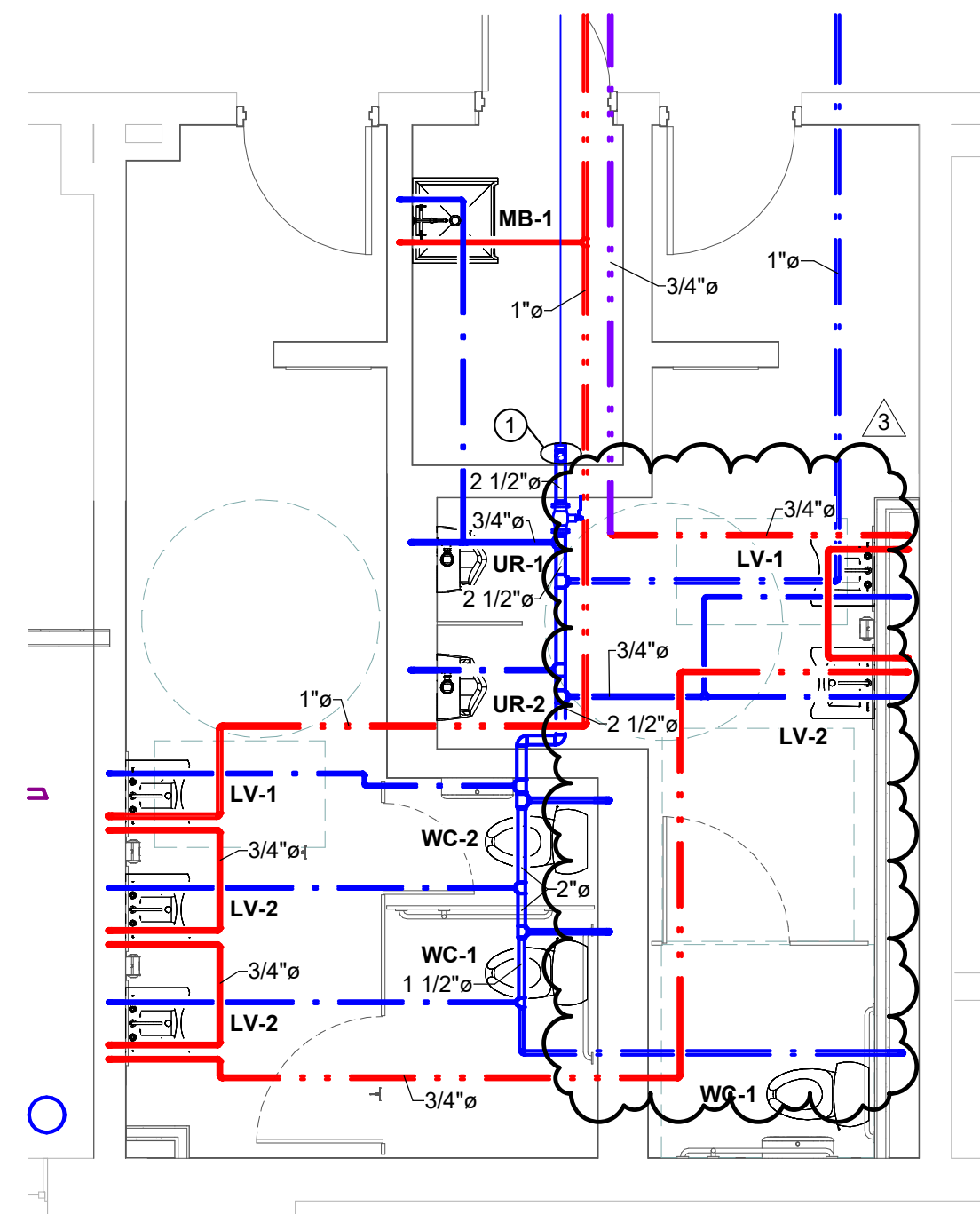
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BH JOB NO. 22-038_26006

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① GROUND FLOOR DOMESTIC WATER PIPING
1/8" = 1'-0"



② GROUND FLOOR ENLARGED WATER PIPING
1/4" = 1'-0"

④ DRAWING NOTES:

1. RUN DOMESTIC COLD WATER PIPING UP FROM BELOW FLOOR TO ABOVE CEILING TO SERVE FIXTURES.
2. DROP DOMESTIC COLD WATER LINE TO WALL HYDRANT IN STORAGE ROOM. WALL HYDRANT TO BE 18" ABOVE FINISHED GRADE.
3. CONNECT DOMESTIC COLD WATER LINE IN TO REFRIGERATOR.

LEBANON COUNTY MUNICIPAL BUILDING
PHASE II RENOVATIONS

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Lebanon, PA 17042

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GROUND FLOOR
PLUMBING -
DOMESTIC
WATER

Draw Number:
P201

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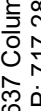
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1. EXISTING 1" CONDENSATE DOWN FROM FLOOR ABOVE, TIE 3/4" CONDENSATE FROM UNIT ON THIS FLOOR INTO LINE AND EXISTING SPILL 1-1/4" OUT ON GRADE 6" A.F.G.
2. RECONNECT TO EXISTING CONDENSATE.
3. EXISTING 1" CONDENSATE DOWN FROM FLOOR ABOVE, TIE 1" CONDENSATE FROM UNIT ON THIS FLOOR INTO LINE AND EXISTING SPILL 1-1/4" OUT ON GRADE 6" A.F.G.
4. EXISTING 1" CONDENSATE DOWN FROM FLOOR ABOVE AND EXISTING SPILL OUT ON GRADE 6" A.F.G.
5. EXISTING 3/4" CONDENSATE SPILL OUT ON GRADE 6" A.F.G.
6. EXISTING 1-1/4" CONDENSATE SPILL OUT ON GRADE 6" A.F.G.
7. CONNECT NEW 3/4" CONDENSATE PIPING TO HVAC UNIT WITH P-TRAPS AND CLEAN OUT.
8. RUN CONDENSATE PIPING AS HIGH AS POSSIBLE WITH SLOPE.
9. 2" DROP FROM FIRST FLOOR SINK.
10. VERTICAL SANITARY AND VENT RISE UP TO FIRST FLOOR CEILING AND TIE INTO EXISTING.
11. 2" VENT RISER UP THROUGH CEILING AND TIE INTO EXISTING VENT IN FIRST FLOOR CEILING.



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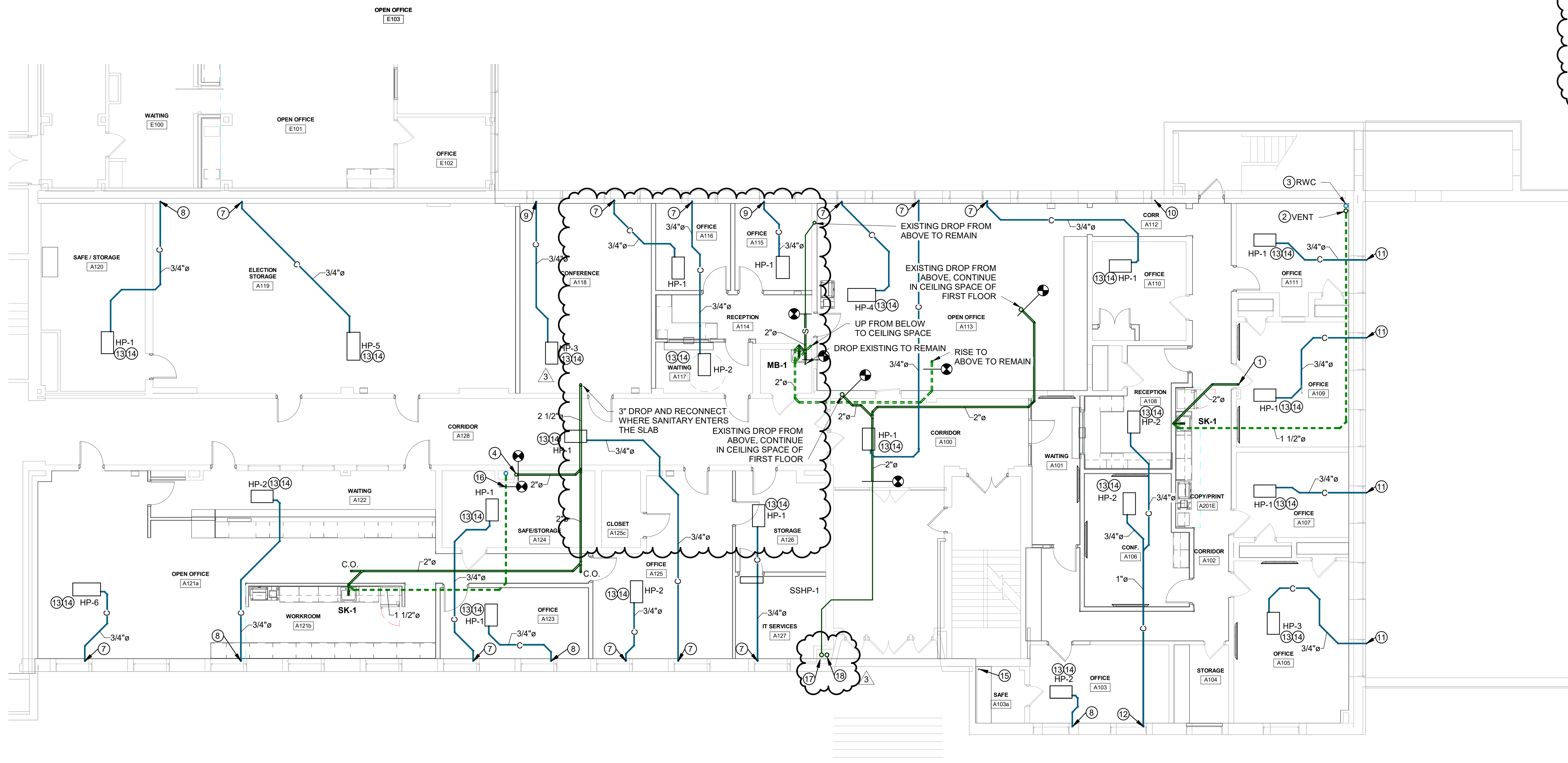
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Issue Date:	07.07.28
Drawn By:	Author
Checked By:	Checker

P301

BH JOB NO. 22-038_26006

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1 FIRST FLOOR SANITARY WASTE AND VENT PIPING
1/8" = 1'-0"

- GENERAL NOTES:**
1. ALL NEW PIPING SHALL BE INSTALLED PRIOR TO DEMO OF THE EXISTING PIPING TO LIMIT THE AMOUNT OF TIME THE SECOND FLOOR PLUMBING FIXTURES WILL BE UNUSABLE.
- DRAWING NOTES:**
1. SANITARY LINE DROP DOWN THROUGH GROUND FLOOR WALL INTO EXISTING DRAIN LINE.
 2. EXISTING VENT RISER TO REMAIN. RECONNECT NEW VENT INTO EXISTING VENT RISER.
 3. EXISTING RWC DROP TO REMAIN.
 4. EXISTING SANITARY DROP TO REMAIN. RECONNECT NEW PIPING TO EXISTING.
 5. EXISTING SANITARY DROP TO REMAIN. RECONNECT NEW PIPING TO EXISTING.
 6. EXISTING RISER TO REMAIN RECONNECT NEW PIPING TO EXISTING RISER.
 7. EXISTING 1" CONDENSATE DOWN FROM FLOOR ABOVE. TIE 3/4" CONDENSATE FROM UNIT ON THIS FLOOR INTO LINE AND CONTINUE TO EXISTING 1" DOWN TO FLOOR BELOW.
 8. EXISTING 3/4" CONDENSATE DOWN FROM FLOOR ABOVE. TIE 3/4" CONDENSATE FROM UNIT ON THIS FLOOR INTO LINE AND CONTINUE TO EXISTING 1" DOWN TO FLOOR BELOW.
 9. EXISTING 3/4" CONDENSATE DOWN TO FLOOR BELOW.
 10. EXISTING 3/4" CONDENSATE FROM ABOVE AND CONTINUE DOWN TO FLOOR BELOW.
 11. SPILL CONDENSATE ON ROOF.
 12. EXISTING 3/4" CONDENSATE DOWN FROM FLOOR ABOVE. TIE 1" CONDENSATE FROM UNIT ON THIS FLOOR INTO LINE AND CONTINUE TO EXISTING 1" DOWN TO FLOOR BELOW.
 13. CONNECT NEW 3/4" CONDENSATE PIPING TO HVAC UNIT WITH P-TRAPS AND CLEAN OUT.
 14. RUN CONDENSATE PIPING AS HIGH AS POSSIBLE WITH SLOPE.
 15. 2" VENT RISER UP FROM GROUND FLOOR CEILING AND TIE INTO EXISTING VENT IN FIRST FLOOR CEILING.
 16. TIE 1-1/2" SINK VENT INTO EXISTING VENT RISER UP TO SECOND FLOOR CEILING.
 17. CONNECT NEW 4" SANITARY STACK IN TO EXISTING SANITARY LINES IN FIRST FLOOR CEILING.
 18. CONNECT NEW 4" VENT IN TO EXISTING VENT LINE IN FIRST FLOOR CEILING.

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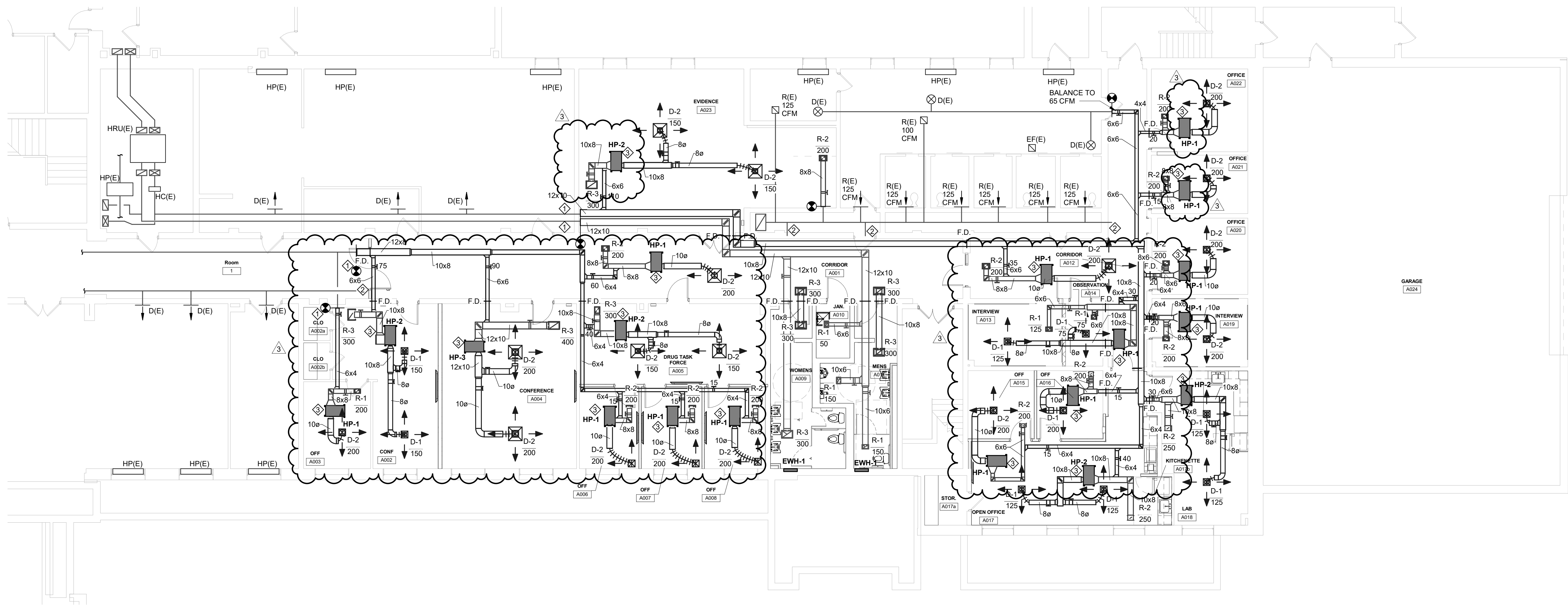
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FIRST FLOOR
PLUMBING -
SANITARY AND
VENT

Sheet Number:
P302

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1 GROUND FLOOR HVAC
1/8" = 1'-0"

- DRAWING NOTES:**
1. RECONNECT DUCT TO EXISTING DUCTWORK AND PROVIDE TRANSITION AS REQUIRED.
 2. CAP DUCTWORK.
 3. MAINTAIN MANDATORY SERVICE ACCESS CLEARANCES PER MANUFACTURER'S INSTRUCTIONS.

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GROUND FLOOR
HVAC

Sheet Number:

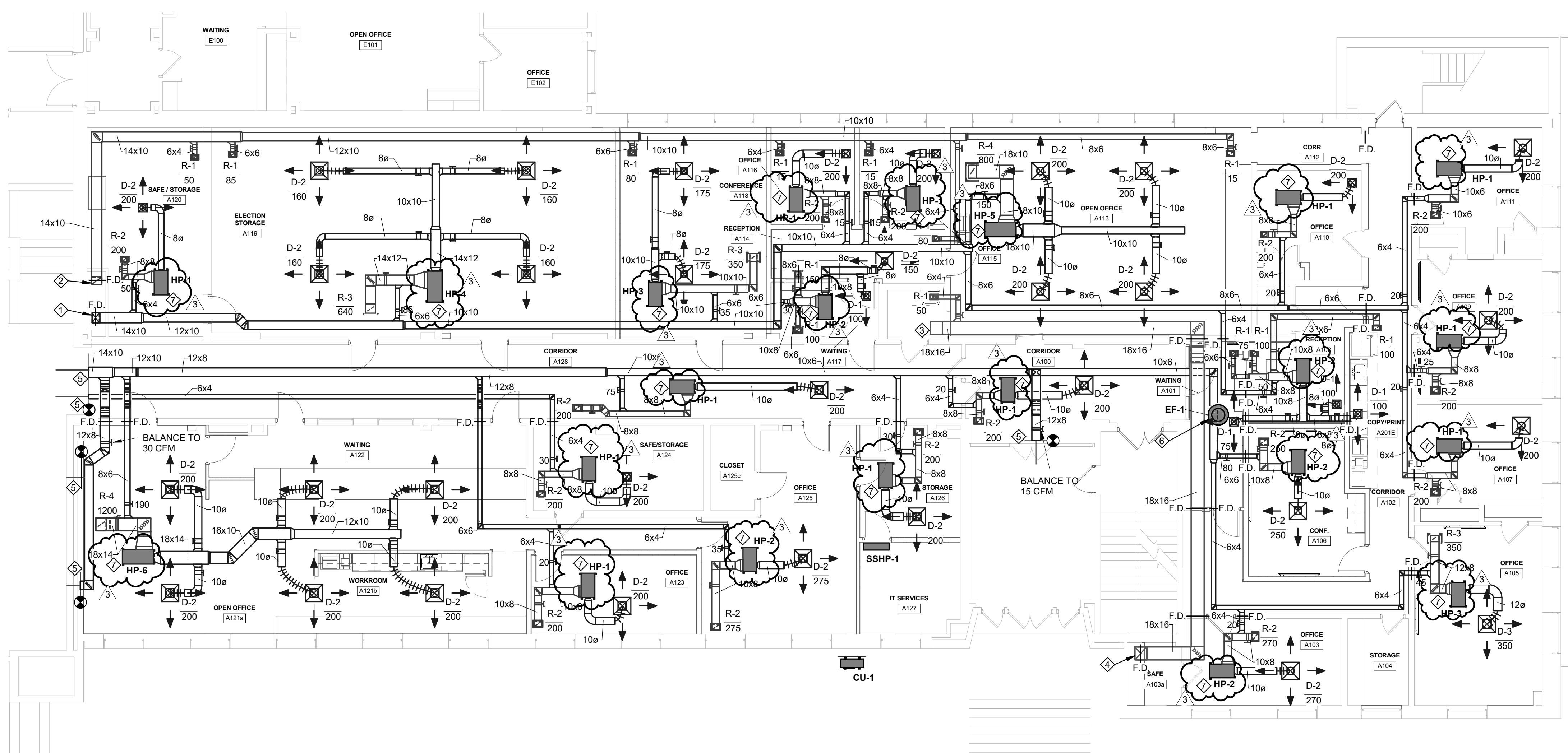
M201

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1 FIRST FLOOR HVAC
1/8" = 1'-0"

- DRAWING NOTES:**
- 14X10 SUPPLY FRESH AIR DUCT UP FROM GROUND FLOOR CEILING. SEE M201 FOR CONTINUATION.
 - 14X10 EXHAUST AIR DUCT DOWN TO GROUND FLOOR CEILING. SEE M201 FOR CONTINUATION.
 - 18X16 EXHAUST AIR DUCT UP FROM GROUND FLOOR CEILING. CONNECT INTO EXISTING DUCT IN GROUND FLOOR CEILING. SEE M201 FOR CONTINUATION.
 - CONNECT 18X16 EXHAUST DUCT INTO EXISTING EXHAUST AIR DUCT RISING UP TO SECOND FLOOR CEILING.
 - RECONNECT EXISTING DUCT IN TO NEW DUCT. CAP HRU DUCT THAT WILL NO LONGER BE UTILIZED.
 - EF-1 IS LOCATED ON ROOF ABOVE SECOND FLOOR. RECONNECT INTO EXISTING DUCTWORK IN SECOND FLOOR CEILING.
 - MAINTAIN MANDATORY SERVICE ACCESS CLEARANCES PER MANUFACTURER'S INSTRUCTIONS.

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LEBANON COUNTY MUNICIPAL BUILDING PHASE II RENOVATIONS



GENERAL DEMOLITION NOTES

3. THESE DEMOLITION PLANS WERE PREPARED FROM ON-SITE SURVEYS AND ORIGINAL CONSTRUCTION DOCUMENTS. IN AN EFFORT TO PROVIDE THIS INFORMATION TO THE CONTRACTOR, THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS TO THE BEST OF HIS KNOWLEDGE. IT IS STILL THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING CONDITIONS. THE BID ALL OTHER DEMOLITION WORK REQUIRED FOR REMOVAL OF ALL ELECTRICAL EQUIPMENT. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE COMPLETE BUILDING DEMOLITION PLANS.
4. REMOVE ANY ACoustICAL TILE OR CEILING MATERIAL NOT REMOVED BY THE TRADES, AS NOTED ON THE DEMOLITION PLANS. REMOVE AND/OR THE INSTALLATION OF NEW ELECTRICAL EQUIPMENT. CONTRACTOR SHALL REPLACE ALL CEILING TILES DAMAGED BY HIM THAT ARE TO REMAIN. NEW MATERIALS TO BE SMALLER THAN THE EXISTING TYPE. VERIFY TYPE WITH ARCHITECT BEFORE INSTALLING.
5. REPAIR FIRE AND SMOKE RATED PARTITIONS SURROUNDING ELECTRICAL WORK AS SPECIFIED. REFER TO THE ARCHITECTURAL PLANS FOR LOCATIONS OF SMOKE AND FIRE PARTITIONS.
6. REFER TO THE MECHANICAL AND PLUMBING DRAWINGS AND COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXACT QUANTITIES AND LOCATION OF ELECTRICAL EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL ELECTRICAL ITEMS SERVING MECHANICAL EQUIPMENT THAT IS TO BE REMOVED.
7. REFER TO THE MECHANICAL AND PLUMBING DRAWINGS AND COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXACT QUANTITIES AND LOCATION OF ELECTRICAL EQUIPMENT. WIRE AND CONDUITS, SAME SIZE AS EXISTING, AND RECONNECT EQUIPMENT AS REQUIRED.
8. WHERE DEMOLITION OF ELECTRICAL EQUIPMENT DAMAGES EXISTING SURFACES, THE CONTRACTOR SHALL REPAIR OR REPLACE THE DAMAGED SURFACES SAME CONDITION AS THE ADJACENT SURFACES. ALL PATCHES AND REPAIRS SHALL BE SUBJECT TO REVIEW AND APPROVAL OF THE ARCHITECT. WHEN THE CONTRACTOR IS FINISHED, HE SHALL SHOW THAT A ROOM WILL BE PAINTED UNDER ANOTHER CONTRACT PRIME THE WALL AND CEILING PATCHES READY FOR FINISH PAINTING. WHERE ROOM FINISHES ARE NOT TO BE ADDED OR ADJUSTED TO MATCH EXISTING WALL AND CEILING PATCHES TO MATCH EXISTING SURFACES. BLANK PLATES WILL NOT BE ACCEPTABLE FOR FLUSH PANELBOARDS REMOVED.
9. THE DEMOLITION OF THE ELECTRICAL SYSTEMS MUST BE PHASED TO CORRESPOND TO THE PHASED NATURE OF THE CONSTRUCTION OF THIS PROJECT. THE SYSTEMS SHALL BE PHASED TO BE REMOVED IN A TURNED OVER AND OCCUPIED PRIOR TO SUBSTANTIAL COMPLETION. REFER TO THE ARCHITECTURAL PHASING PLANS FOR MORE DETAILED INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THAT SYSTEM TO A FULLY OPERATIONAL STATE. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY WORK NECESSARY TO KEEP ALL REQUIRED SYSTEMS OPERATIONAL UNTIL THEY ARE NO LONGER NEEDED. THIS WORK MAY BE LIMITED TO, BUT NOT LIMITED TO, RELOCATION, REWIRING AND PROGRAMMING OF ALL SYSTEMS EQUIPMENT. EXISTING SYSTEMS SHALL REMAIN OPERATIONAL THROUGHOUT THE DEMOLITION PROCESS. THIS INCLUDE, BUT ARE NOT LIMITED TO: THE INTERCOMMASTER CLOCK, FIRE ALARM, VIDEO SURVEILLANCE, TELEPHONE, DATA NETWORK AND THE PUBLIC ADDRESS EMERGENCY ALARM SYSTEM. THE CONTRACTOR SHALL SHUT DOWN OF THESE ITEMS MUST BE COORDINATE WITH AND APPROVED BY THE GENERAL TRADES CONTRACTOR AND THE OWNER.
10. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, DISCONNECT / REMOVE ALL EXISTING INTERIOR LIGHTING FIXTURES AND EXIT SIGNS WITHIN THE AREA OF THE PROJECT SCOPE AND ALL ASSOCIATED CONDUIT, UNLESS OTHERWISE NOTED. ASSOCIATED BRANCH CIRCUIT WIRING AND CONDUIT SHALL REMAIN FOR RECONNECTION AS INDICATED ON NEW WORK PLANS.
2. UNLESS OTHERWISE NOTED, DISCONNECT / REMOVE ALL EXISTING DATA OUTLETS / RECEPTACLES THROUGHOUT THE WORK AREA. FOR DATA OUTLETS, REMOVE ASSOCIATED WIRE AND CONDUIT BACK TO / FROM ASSOCIATED IDF. FOR RECEPTACLES, REMOVE ASSOCIATED WIRE / CONDUIT BACK TO CIRCUIT HOMERUN. EXISTING DATA OUTLET / RECEPTACLE LOCATIONS SHALL REMAIN WHERE RECESSED IN EXTERIOR / BLOCK WALLS.
3. DISCONNECT / REMOVE EXISTING RECEPTACLES, DATA OUTLETS AND FIRE ALARM DEVICES WHERE WALLS ARE SHOWN TO BE REMOVED. FOR DATA OUTLETS / FIRE ALARM DEVICES, REMOVE ASSOCIATED WIRE AND CONDUIT BACK TO IDF / FACP. FOR RECEPTACLES, REWORK / EXTEND WIRE AND CONDUIT TO NEW RECEPTACLE ALF DEVICES THAT REMAIN ON CIRCUIT DURING CONSTRUCTION.
4. PANELBOARDS AND TRANSFORMERS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

 DRAWING NOTES

1. EXISTING HVAC UNIT TO BE REMOVED BY MECHANICAL CONTRACTOR. DISCONNECT AND REMOVE ASSOCIATED OCPD AND CONDUIT / WIRING BACK TO SOURCE.
 2. DISCONNECT / SALVAGE ALL EXISTING FIRE ALARM DEVICES AND RETURN TO OWNER FOR MAINTENANCE STOCK. DISCONNECT / REMOVE ASSOCIATED CONDUIT / WIRING. REWIRE/RELOCATE TO ASSOCIATED FIRE ALARM CONTROL PANEL. LOCATED MECHANICAL ROOM, THIS FLOOR.
 3. DISCONNECT / REMOVE ALL EXISTING CEILING-MOUNTED SPEAKER DEVICES AND SALVAGE FOR OWNER STOCK. DISCONNECT / REMOVE ASSOCIATED CONDUIT / WIRING, AS REQUIRED, BACK TO ASSOCIATED FIRE ALARM CONTROL PANEL. LOCATED MECHANICAL ROOM, THIS FLOOR.
 4. DISCONNECT ALL EXISTING INTERIOR SURVEILLANCE CAMERAS AND WIRELESS NETWORKS. DISCONNECT / REMOVE ASSOCIATED CONDUIT / COIL / TAG ASSOCIATED DATA CABLEING FOR REUSE. COORDINATE WORK WITH OWNER TO MAINTAIN SURVEILLANCE CAMERA COVERAGE DURING CONSTRUCTION AS REQUIRED.
 5. DEMOLITION WITHIN THIS AREA SHALL BE LIMITED TO EXISTING LUMINAIRES AND ASSOCIATED LIGHTING CONTROLS.
 6. RELOCATE EXISTING TELECOMMUNICATIONS / DATA EQUIPMENT AS SHOWN ON NEW WORK PLAN.
- EXISTING HVAC UNIT TO BE REPLACED IN KIND BY MECHANICAL CONTRACTOR. DISCONNECT / REMOVE ASSOCIATED OCPD. RETAIN EXISTING BRANCH CIRCUIT CONDUIT / WIRING FOR REUSE.
8. EXISTING HVAC UNIT TO BE REMOVED BY MECHANICAL CONTRACTOR. DISCONNECT / REMOVE ASSOCIATED UNIT OCPD AND CONDUIT / WIRING. SERVICE / EXTEND BRANCH CIRCUIT CONDUIT / WIRING TO MAINTAIN IN WORK AREA ALL EXISTING TO REMAIN HVAC UNIT(S) ON SAME CIRCUIT.
 9. DISCONNECT / REMOVE EXISTING SPECIAL-PURPOSE RECEPTACLE AND CONDUIT. DISCONNECT / REMOVE EXISTING CONDUIT RUN UNDERNEATH FINISHED FLOOR TO BE ABANDONED IN PLACE.

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GROUND FLOOR ELECTRICAL DEMOLITION

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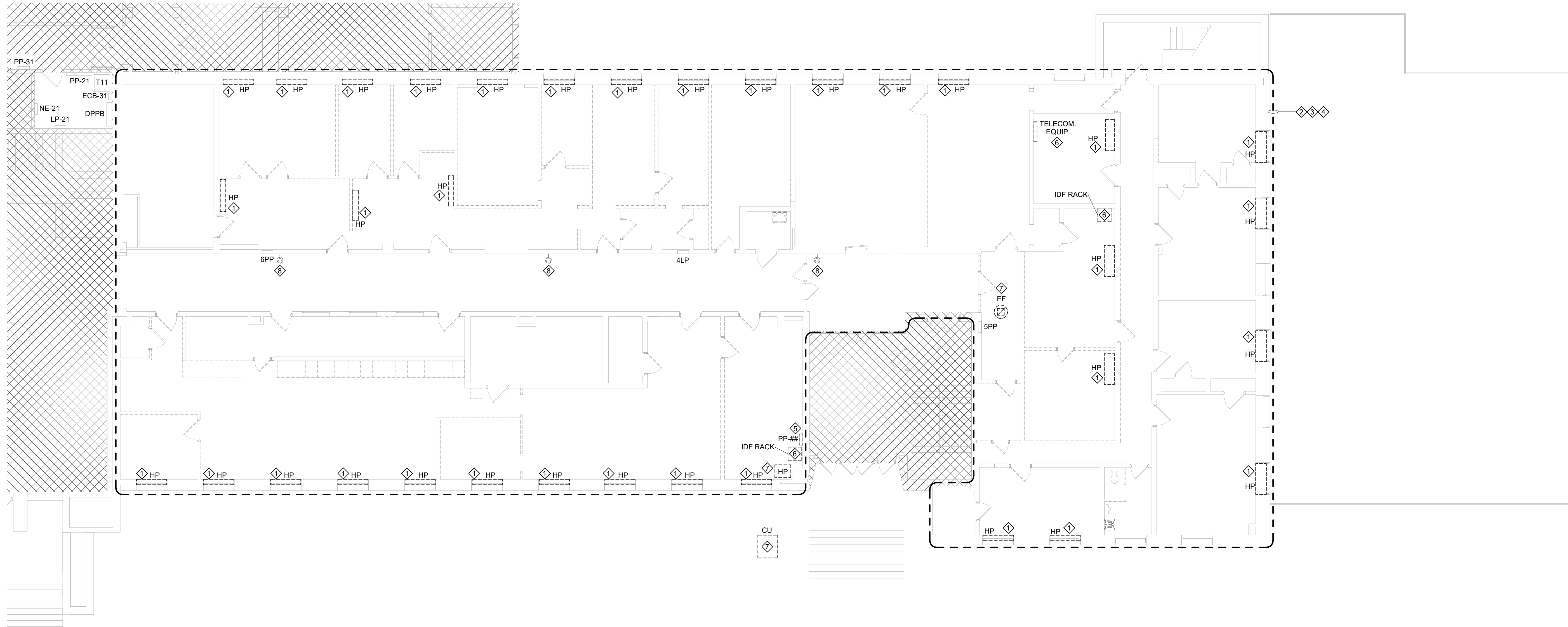


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1 FIRST FLOOR ELECTRICAL DEMOLITION
1/8" = 1'-0"

GENERAL NOTES:

- UNLESS OTHERWISE NOTED, DISCONNECT / REMOVE ALL EXISTING INTERIOR LIGHTING FIXTURES AND EXIT SIGNS WITHIN THE AREA OF THE PROJECT SCOPE AND ALL ASSOCIATED CONTROLS. UNLESS OTHERWISE NOTED, ASSOCIATED BRANCH CIRCUIT WIRING AND CONDUIT SHALL REMAIN FOR RECONNECTION AS INDICATED ON NEW WORK PLANS.
- UNLESS OTHERWISE NOTED, DISCONNECT / REMOVE ALL EXISTING DATA OUTLETS / RECEPTACLES THROUGHOUT THE WORK AREA. FOR DATA OUTLETS, REMOVE ASSOCIATED WIRE AND CONDUIT BACK TO ASSOCIATED IDF. FOR RECEPTACLES, DISCONNECT ASSOCIATED WIRE / CONDUIT BACK TO CIRCUIT HOMERUN. EXISTING DATA OUTLET / RECEPTACLE LOCATIONS SHALL REMAIN WHERE RECESSED IN EXTERIOR / BLOCK WALLS.
- DISCONNECT / REMOVE EXISTING RECEPTACLES, DATA OUTLETS AND FIRE ALARM DEVICES WHERE WALLS ARE SHOWN TO BE REMOVED. FOR DATA OUTLETS / FIRE ALARM DEVICES, REMOVE ASSOCIATED WIRE AND CONDUIT BACK TO IDF / FACP. FOR RECEPTACLES, REWORK / EXTEND WIRE AND CONDUIT TO MAINTAIN IN SERVICE ALL DEVICES THAT REMAIN ON CIRCUIT DURING CONSTRUCTION.
- PANELBOARDS AND TRANSFORMERS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

DRAWING NOTES:

- EXISTING HVAC UNIT TO BE REMOVED BY MECHANICAL CONTRACTOR. DISCONNECT / REMOVE ASSOCIATED OCPD AND CONDUIT / WIRING BACK TO CIRCUIT HOMERUN.
- DISCONNECT / SALVAGE ALL EXISTING FIRE ALARM DEVICES AND RETURN TO OWNER FOR MAINTENANCE STOCK. DISCONNECT / REMOVE ASSOCIATED CONDUIT / WIRING, AS REQUIRED, BACK TO ASSOCIATED FIRE ALARM CONTROL PANEL, LOCATED IN GROUND FLOOR MECHANICAL ROOM.
- DISCONNECT / REMOVE ALL EXISTING CEILING-MOUNTED SPEAKER DEVICES AND SALVAGE FOR OWNER STOCK. DISCONNECT / REMOVE ASSOCIATED CONDUIT / WIRING, AS REQUIRED, BACK TO ASSOCIATED FIRE ALARM CONTROL PANEL, LOCATED IN GROUND FLOOR MECHANICAL SPACE.
- DISCONNECT ALL EXISTING INTERIOR SURVEILLANCE CAMERAS AND STORE FOR REINSTALLATION AS INDICATED ON NEW WORK PLANS. COIL / TAG ASSOCIATED DATA CABLING FOR REUSE. COORDINATE WORK WITH OWNER TO MAINTAIN SURVEILLANCE CAMERA COVERAGE DURING CONSTRUCTION AS REQUIRED.
- BID ALTERNATE EC-1: DISCONNECT / REMOVE EXISTING PANELBOARD TO BE REPLACED. RETAIN ASSOCIATED FEEDER CIRCUIT FOR REUSE.
- RELOCATE EXISTING TELECOMMUNICATIONS / DATA EQUIPMENT AS SHOWN ON NEW WORK PLAN.
- EXISTING HVAC UNIT TO BE REPLACED IN-KIND BY MECHANICAL CONTRACTOR. DISCONNECT / REMOVE ASSOCIATED OCPD. RETAIN EXISTING BRANCH CIRCUIT CONDUIT / WIRING FOR REUSE.
- DISCONNECT / REMOVE EXISTING SPECIAL-PURPOSE RECEPTACLE AND ASSOCIATED CONDUIT / WIRING. EXISTING CONDUIT RUN UNDERNEATH FINISHED FLOOR TO BE ABANDONED IN PLACE. DISCONNECT / REMOVE ASSOCIATED 2P/30A CIRCUIT BREAKER SERVING EQUIPMENT.

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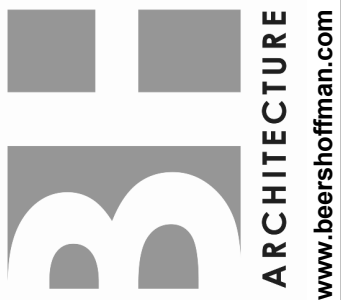
FIRST FLOOR
ELECTRICAL
DEMOLITION

Sheet Number
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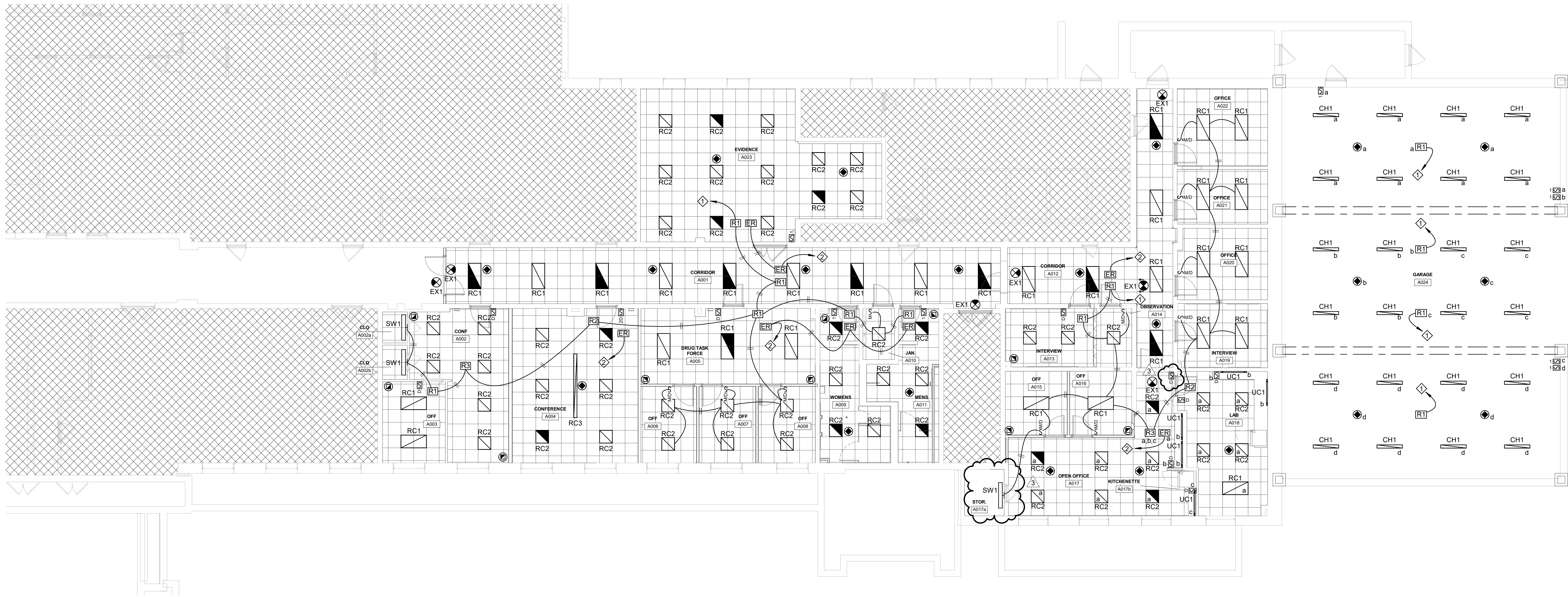


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1 GROUND FLOOR LIGHTING
1/8" = 1'-0"

- GENERAL NOTES:**
1. EXTEND / REWORK AND CONNECT NEW EXIT SIGNAGE TO EXISTING LOCAL NORMAL / EMERGENCY LIFE-SAFETY CIRCUIT SERVING THIS AREA.
 2. UNLESS OTHERWISE NOTED, PROVIDE LIGHTING ROOM CONTROLLERS ABOVE ACCESSIBLE CEILINGS.
 3. PROVIDE CLASS 2, 0-10V DIMMING WIRING AS REQUIRED FOR LIGHTING CONTROLS FOR ALL NEW LUMINAIRES.

- DRAWING NOTES:**
1. EXTEND / REWORK AND CONNECT TO EXISTING NORMAL LIGHTING CIRCUIT SERVING THIS AREA.
 2. EXTEND / REWORK AND CONNECT TO EXISTING LOCAL NORMAL / EMERGENCY LIFE-SAFETY CIRCUIT SERVING THIS AREA.

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GROUND FLOOR
LIGHTING

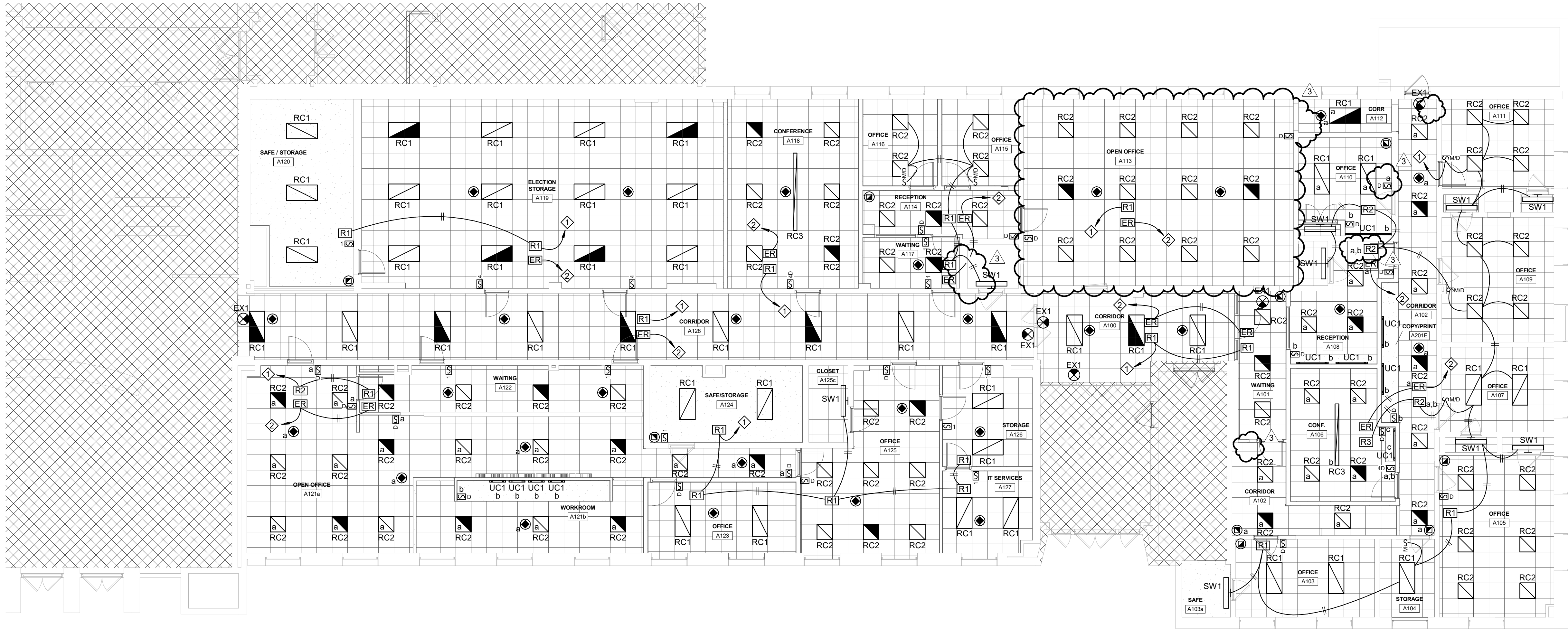
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1 FIRST FLOOR LIGHTING
1/8" = 1'-0"

- GENERAL NOTES:**
1. EXTEND / REWORK AND CONNECT NEW EXIT SIGNAGE TO EXISTING LOCAL NORMAL / EMERGENCY LIFE-SAFETY CIRCUIT SERVING THIS AREA.
 2. UNLESS OTHERWISE NOTED: PROVIDE LIGHTING ROOM CONTROLLERS ABOVE ACCESSIBLE CEILINGS.
 3. PROVIDE CLASS 2, 0-10V DIMMING WIRING AS REQUIRED FOR LIGHTING CONTROLS FOR ALL NEW LUMINAIRES.

- DRAWING NOTES:**
1. EXTEND / REWORK AND CONNECT TO EXISTING NORMAL LIGHTING CIRCUIT SERVING THIS AREA.
 2. EXTEND / REWORK AND CONNECT TO EXISTING LOCAL NORMAL / EMERGENCY LIFE-SAFETY CIRCUIT SERVING THIS AREA.

LEBANON COUNTY MUNICIPAL BUILDING
PHASE II RENOVATIONS
400 South 8th St.
Lebanon, PA 17042

NO.	DATE	RELEASE
1	07.01.26	ISSUED FOR BIDDING
2	07.01.26	REVISION
3	07.01.26	REVISION

Issue Date: 07.01.26
Drawn By: BES
Checked By: RMF

FIRST FLOOR
LIGHTING

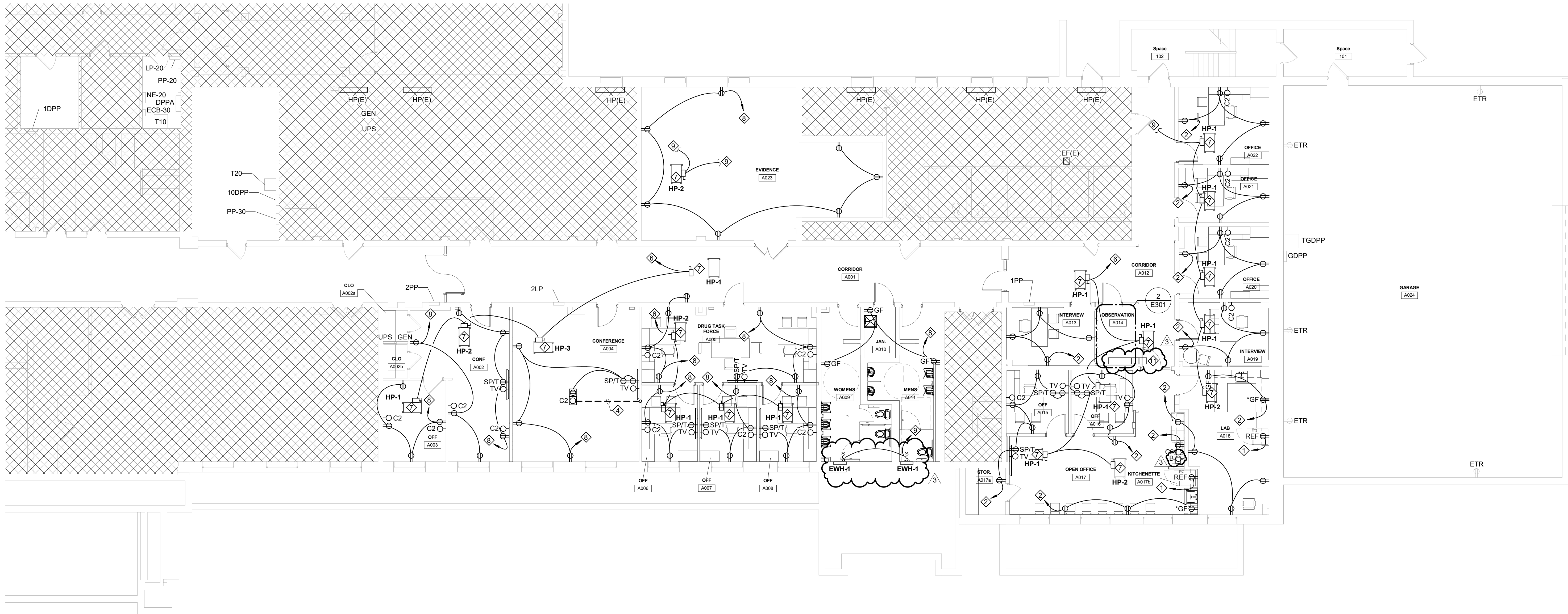
Sheet Number:
E202
BH JOB NO. 22-030_26006

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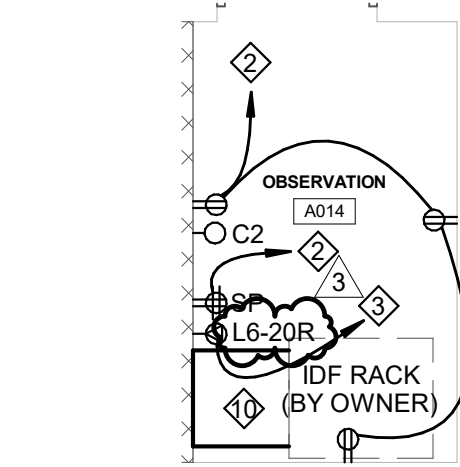
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7/16/2025 2:45:10 PM



1 GROUND FLOOR POWER
1/8" = 1'-0"



2 ENLARGED OBSERVATION A014
1/4" = 1'-0"

GENERAL NOTES:

1. RECEPTACLES AND DATA OUTLETS SHOWN ARE NEW UNLESS OTHERWISE NOTED.
2. PANELBOARDS AND TRANSFORMERS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
3. NEW RECEPTACLES SHALL BE TAMPER-PROOF TYPE.
4. PROVIDE ROUGH-INS FOR NEW TELECOMMUNICATIONS OUTLETS INCLUDING 3/4" CONDUIT TO ACCESSIBLE POINT ABOVE CEILING UNLESS OTHERWISE NOTED.
5. REWORK / EXTEND ALL WIRE/CONDUIT AS REQUIRED TO ACCOMMODATE CONSTRUCTION AND DEMOLITION.

DRAWING NOTES:

1. PROVIDE 1P/20A GFCI TYPE BREAKER IN EXISTING PANEL 1PP AND (2)#12 + (1)#12 GRD. IN 3/4" CONDUIT.
2. PROVIDE 1P/20A BREAKER IN EXISTING PANEL 1PP AND (2)#12 + (1)#12 GRD. IN 3/4" CONDUIT.
3. CONNECT TO EXISTING 2P/30A CIRCUIT BREAKER IN PANEL 1PP AND PROVIDE (3)#10 + (1)#10 GRD. IN 3/4" CONDUIT.
4. PROVIDE 1-1/2" CONDUIT FOR DATA WIRING TO ACCESSIBLE POINT ABOVE CEILING.
5. PROVIDE 1P/20A GFCI TYPE BREAKER IN EXISTING PANEL 2PP AND (2)#12 + (1)#12 GRD. IN 3/4" CONDUIT.
6. CONNECT TO EXISTING 2P/30A CIRCUIT BREAKER IN PANEL PP30 AND PROVIDE (3)#10 + (1)#10 GRD. IN 3/4" CONDUIT.
7. PROVIDE NEMA 1, 240VAC, 2P/30A DISCONNECT SWITCH FUSED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
8. PROVIDE 1P/20A CIRCUIT BREAKER IN EXISTING PANEL 2PP AND (2)#12 + (1)#12 GRD. IN 3/4" CONDUIT.
9. REWORK / EXTEND EXISTING BRANCH CIRCUIT CONDUIT/WIRING RETAINED DURING DEMOLITION FOR POWER SERVING NEW HVAC UNIT(S).

10. RELOCATED TELECOMMUNICATIONS EQUIPMENT
11. PROVIDE WIRE ROD TYPE CABLE TRAY SECTION AS SHOWN FOR ACCOMMODATING FUTURE TELECOMMUNICATIONS BACKBONE CABLING BY OWNER'S VENDOR.

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GROUND FLOOR POWER

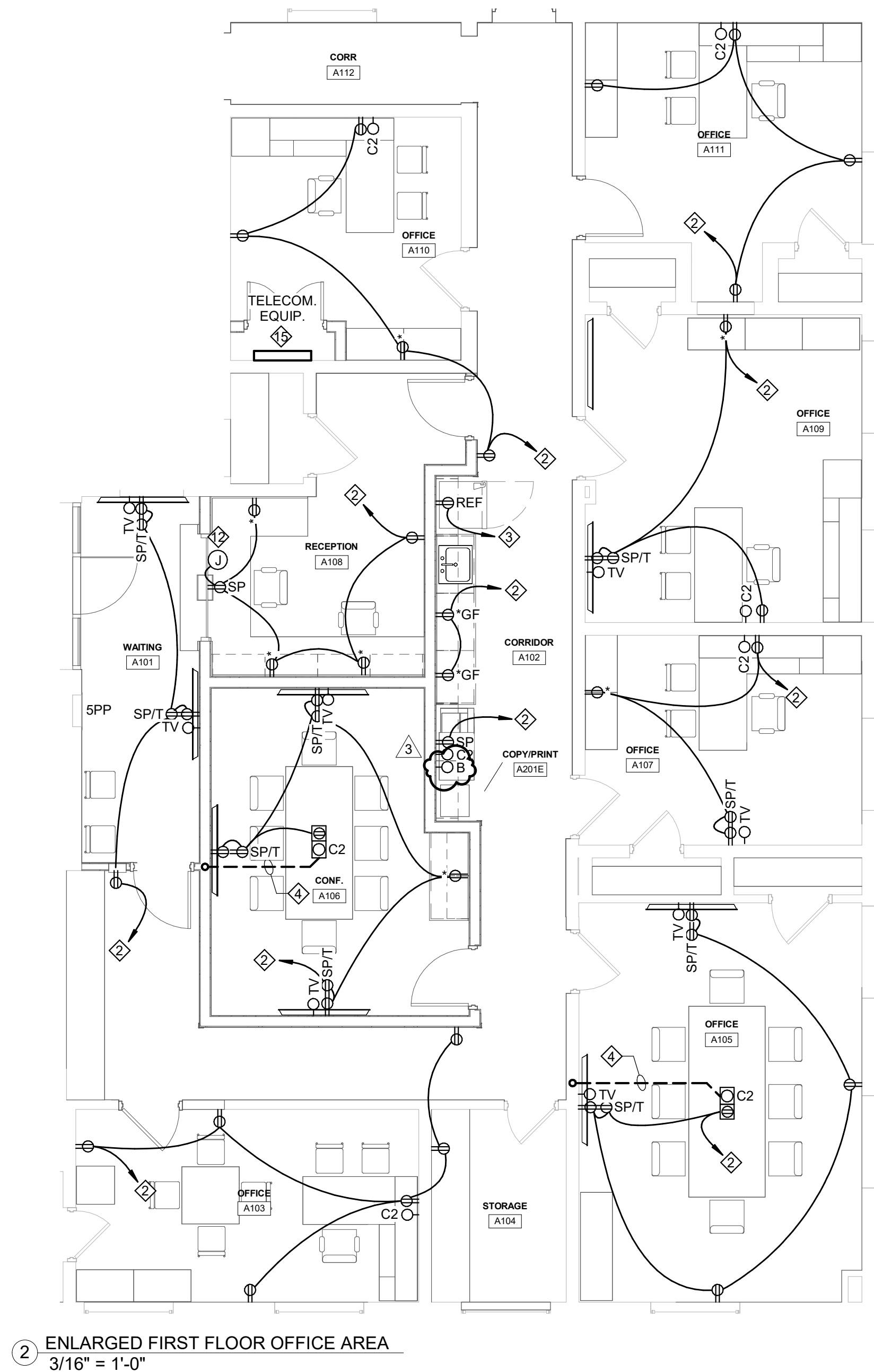
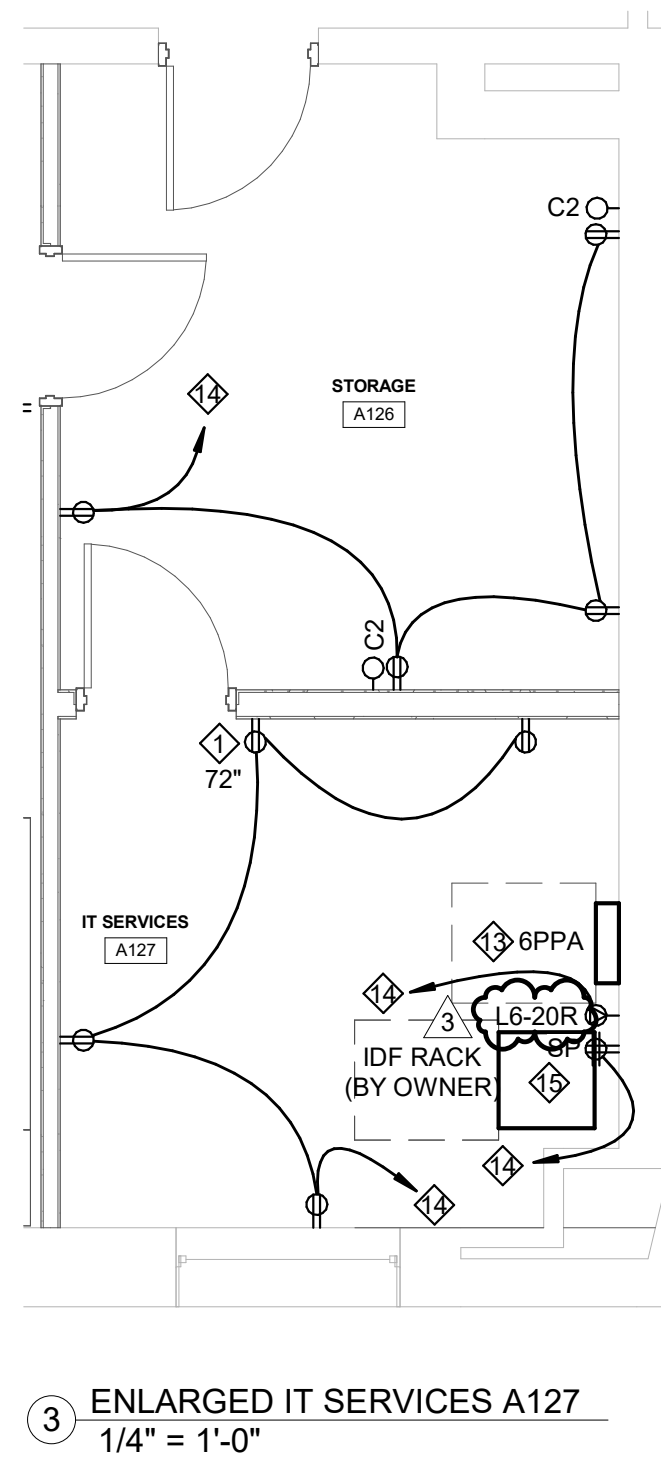
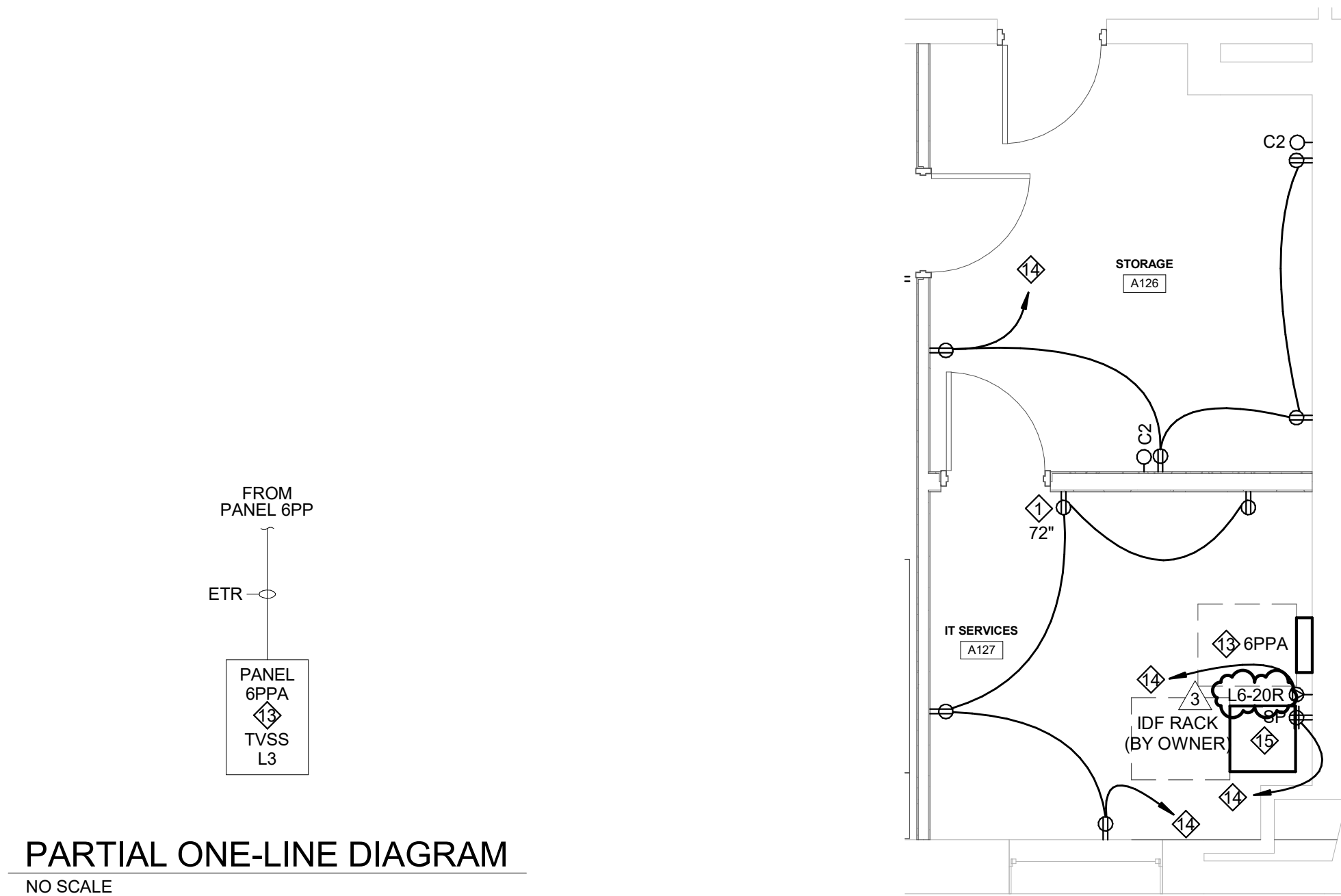
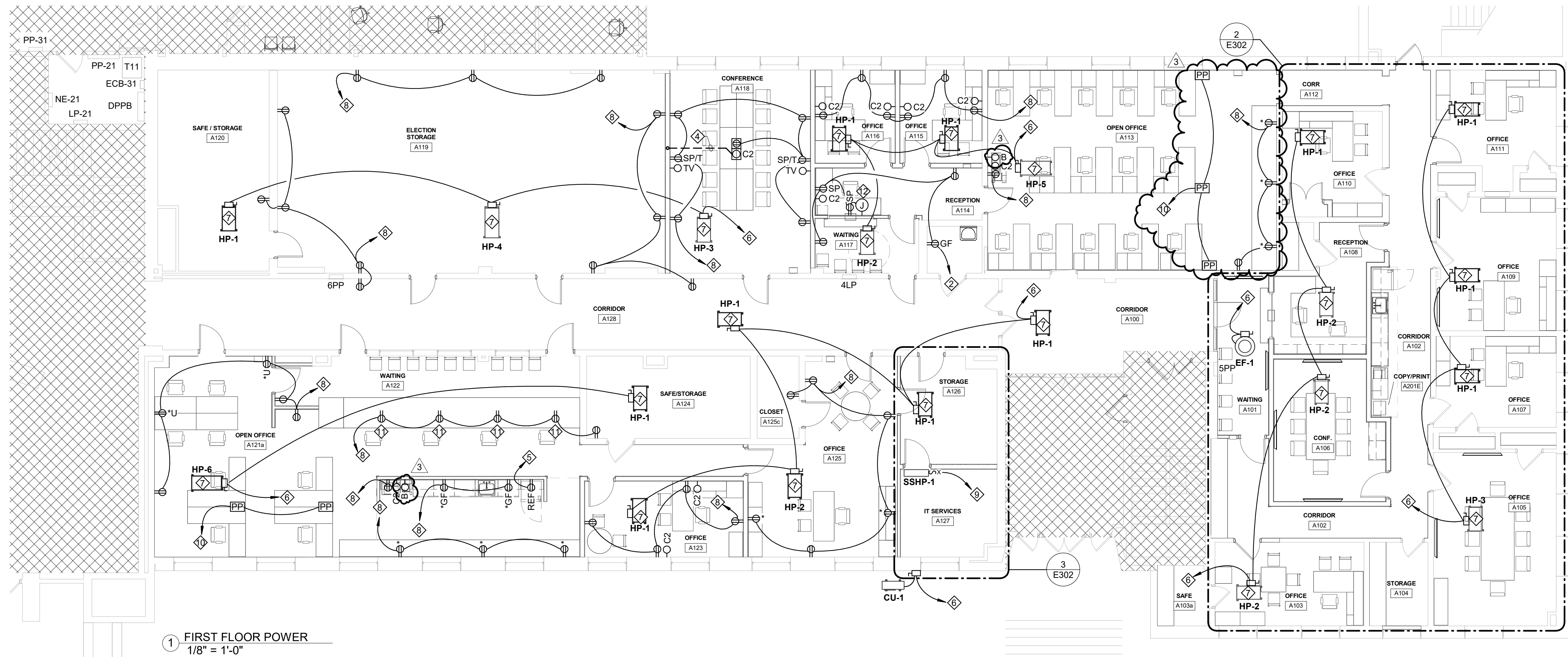
Sheet Number
E301

BH JOB NO. 22-030_26006

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GENERAL NOTES:

- RECEPTACLES AND DATA OUTLETS SHOWN ARE NEW UNLESS OTHERWISE NOTED.
- PANELBOARDS AND TRANSFORMERS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- NEW RECEPTACLES SHALL BE TAMPER-PROOF TYPE.
- PROVIDE ROUGH-INS FOR NEW TELECOMMUNICATIONS OUTLETS INCLUDING 3/4" CONDUIT TO ACCESSIBLE POINT ABOVE CEILING UNLESS OTHERWISE NOTED.
- REWORK / EXTEND ALL WIRE/CONDUIT AS REQUIRED TO ACCOMMODATE CONSTRUCTION AND DEMOLITION.

DRAWING NOTES:

- MOUNT RECEPTACLE AT HEIGHT / LOCATION REQUIRED FOR CONDENSATE DRAIN PUMP.
- PROVIDE 1P/20A BREAKER IN EXISTING PANEL 5PP AND (2)#12 GRD. IN 3/4" CONDUIT.
- PROVIDE 1P/20A GFCI TYPE BREAKER IN EXISTING PANEL 5PP AND (2)#12 + (1)#12 GRD. IN 3/4" CONDUIT.
- PROVIDE 1-1/2" CONDUIT FOR DATA WIRING TO ACCESSIBLE POINT ABOVE CEILING.
- PROVIDE 1P/20A GFCI TYPE BREAKER IN EXISTING PANEL 6PP AND (2)#12 + (1)#12 GRD. IN 3/4" CONDUIT.
- REWORK / EXTEND AND CONNECT TO EXISTING BRANCH CIRCUIT CONDUIT / WIRING RETAINED DURING DEMOLITION.
- PROVIDE NEMA 1, 240VAC, 2P/30A DISCONNECT SWITCH FUSED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- PROVIDE 1P/20A CIRCUIT BREAKER IN EXISTING PANEL 6PP AND (2)#12 + (1)#12 GRD. IN 3/4" CONDUIT.
- PROVIDE WIRING REQUIRED IN 1" CONDUIT BETWEEN INDOOR SPLIT-SYSTEM UNIT AND ASSOCIATED CONDENSING UNIT ON EXTERIOR OF BUILDING.
- PROVIDE 3P/20A CIRCUIT BREAKER IN EXISTING PANEL 6PPA AND (4)#12 + (1)#12 GRD. IN 3/4" CONDUIT FOR POWER SERVING 2-2 FURNITURE SYSTEM. REFER TO FURNITURE MANUFACTURER'S SPECIFICATIONS FOR FINAL TERMINATIONS.
- DEVICE SHALL BE SURFACE MOUNTED.
- PROVIDE NORTON TTU SYSTEMS #TTU-3X TWO-WAY COMMUNICATION EQUIPMENT. COORDINATING MOUNTING HEIGHT / LOCATION WITH CASEWORK TO BE PROVIDED.
- BID ALTERNATE: REPLACE EXISTING PANELBOARD. REWORK / EXTEND AND CONNECT TO FEEDER CIRCUIT CONDUIT / WIRING RETAINED DURING DEMOLITION. REFER TO PANEL SCHEDULES FOR ADDITIONAL EQUIPMENT RATINGS / CAPACITIES.
- PROVIDE 2P/30A BREAKER IN EXISTING PANEL 6PPA AND (3)#12 + (1)#12 GRD. IN 3/4" CONDUIT.
- RELOCATED TELECOMMUNICATIONS EQUIPMENT.

PHASE II RENOVATIONS

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Issue Date: 07/01/26
Drawn By: BES
Checked By: RMF

FIRST FLOOR
POWER

Sheet Number:
E302

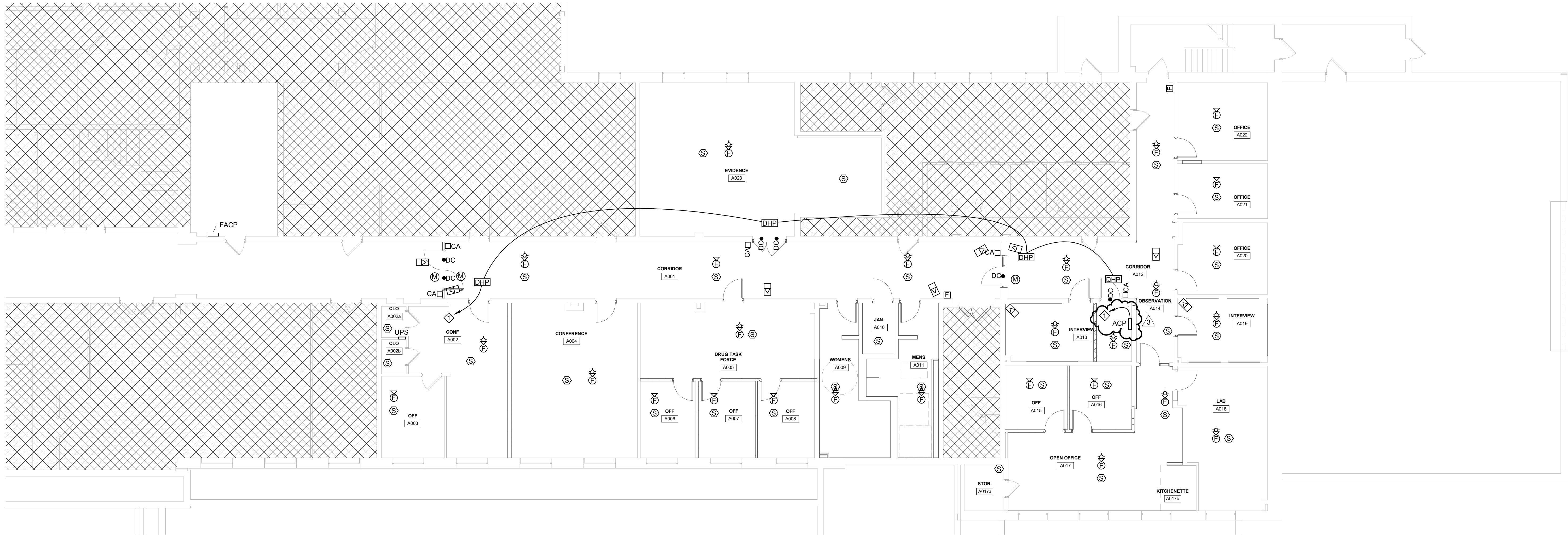
BH JOB NO. 22-030_26006

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www.bharchitect.com



① GROUND FLOOR SECURITY
1/8" = 1'-0"

- GENERAL NOTES:**
- FOR NEW FIRE ALARM DEVICES, PROVIDE ALL WIRE / CONDUIT, AS REQUIRED, TO EXISTING FACP. PROVIDE ALL PANEL UPDATES, BATTERY PANELS, EQUIPMENT, WIRING AND DEVICES AS REQUIRED TO ACCOMMODATE RENOVATIONS AND NEW DEVICES. SUBMIT ALL DRAWINGS AND OTHER MATERIALS AS REQUIRED BY AUTHORITY HAVING JURISDICTION. EXISTING SIMPLEX 4100ES MAIN FIRE ALARM PANEL IS LOCATED IN THE GROUND FLOOR MECHANICAL ROOM.
 - REWORK / EXTEND ALL WIRE / CONDUIT AS REQUIRED TO ACCOMMODATE EXISTING TO REMAIN DEVICES DURING CONSTRUCTION AND DEMOLITION.

- DRAWING NOTES:**
- PROVIDE 1P/20A CIRCUIT BREAKER IN LOCAL PANEL UPS AND (2)#12 + (1)#12 ~~AND~~ CONDUIT FOR POWER SERVING ACCESS CONTROL EQUIPMENT.
 -

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Drawn By: BEB
Checked By: RNF

GROUND FLOOR
SYSTEMS

Draw Number:
E401

BH JOB NO. 22-038_26006

ISSUED FOR BIDDING



1 FIRST FLOOR SECURITY
1/8" = 1'-0"

- GENERAL NOTES:**
1. FOR NEW FIRE ALARM DEVICES, PROVIDE ALL WIRE / CONDUIT, AS REQUIRED, TO EXISTING FACP. PROVIDE ALL PANEL UPDATES, BATTERY PANELS, EQUIPMENT, WIRING AND DEVICES AS REQUIRED TO ACCOMMODATE RENOVATIONS AND NEW DEVICES. SUBMIT ALL DRAWINGS AND OTHER MATERIALS AS REQUIRED BY AUTHORITY HAVING JURISDICTION. EXISTING SIMPLEX 4100ES MAIN FIRE ALARM PANEL IS LOCATED IN THE GROUND FLOOR MECHANICAL ROOM.
 2. REWORK / EXTEND ALL WIRE / CONDUIT AS REQUIRED TO ACCOMMODATE EXISTING TO REMAIN DEVICES DURING CONSTRUCTION AND DEMOLITION.

- DRAWING NOTES:**
1. PROVIDE PANIC PUSHBUTTON, WITH CONNECTIONS / PROGRAMMING BY OWNER'S VENDOR, AS REQUIRED TO INITIATE BUILDING LOCKDOWN AND PLACE CALL TO EMERGENCY CENTRAL MONITORING STATIONS. COORDINATE FINAL PUSHBUTTON LOCATION(S) WITH OWNER PRIOR TO ROUGH-IN.
 2. PROVIDE 1P/20A CIRCUIT BREAKER IN EXISTING PANEL UPS AND (2)#12 + 3/4" CONDUIT FOR POWER SERVING ACCESS CONTROL EQUIPMENT.

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Checked By: RMF

FIRST FLOOR
SYSTEMS

Sheet Number:
E402

BH JOB NO. 22-038_26006

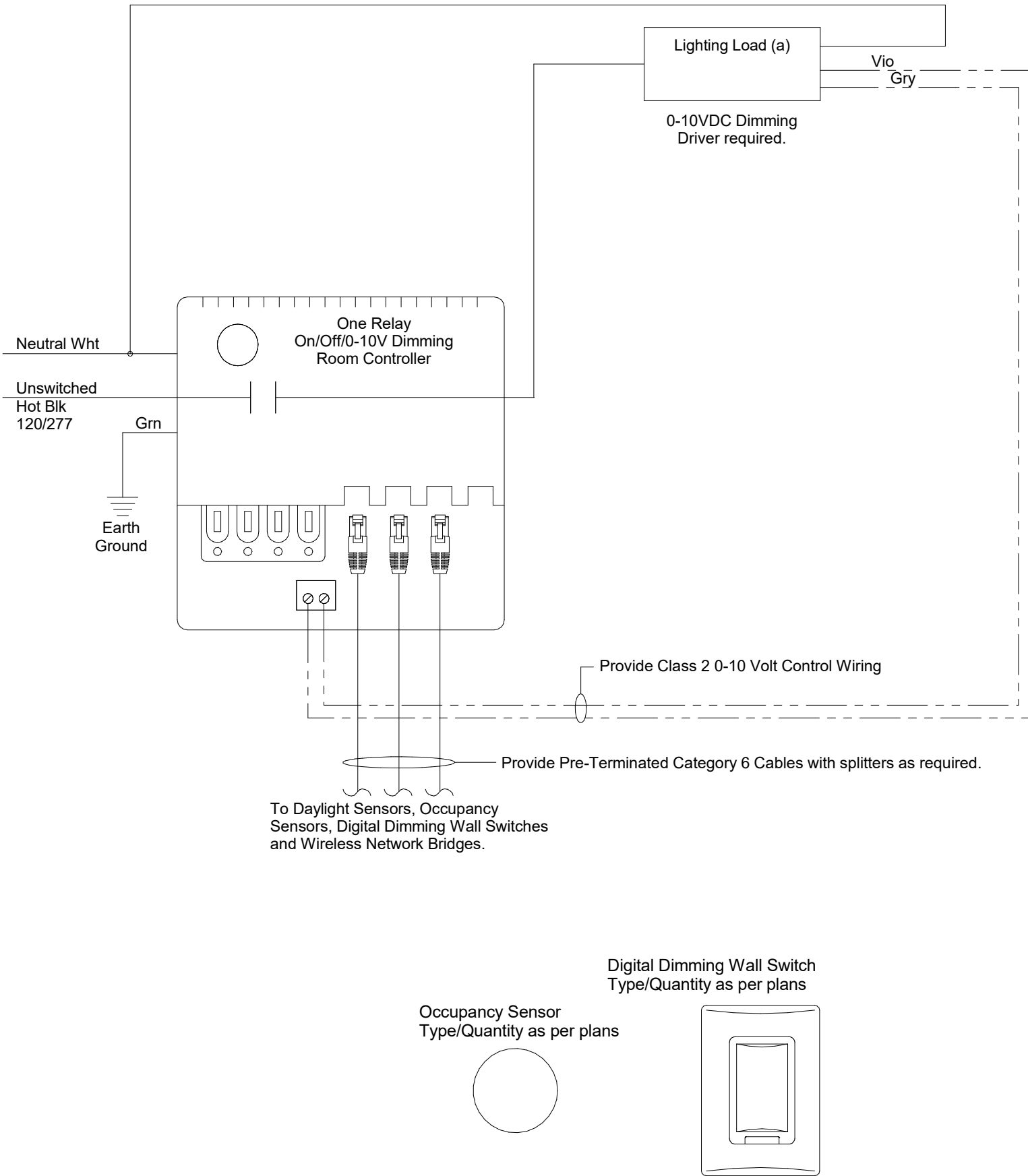
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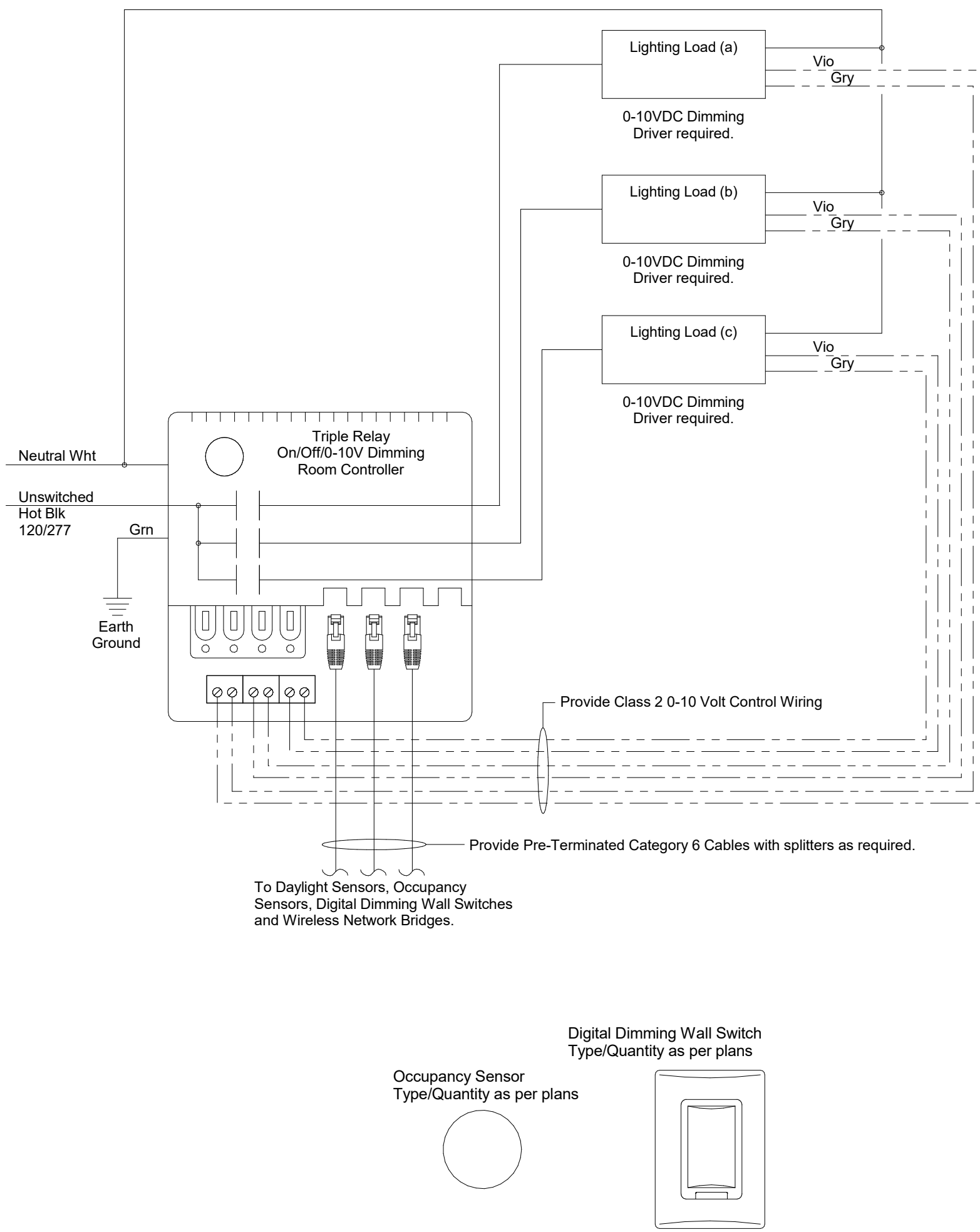
22-038_26006 LEBANON COUNTY MUNICIPAL BUILDING PHASE II RENOVATIONS

ISSUED FOR BIDDING



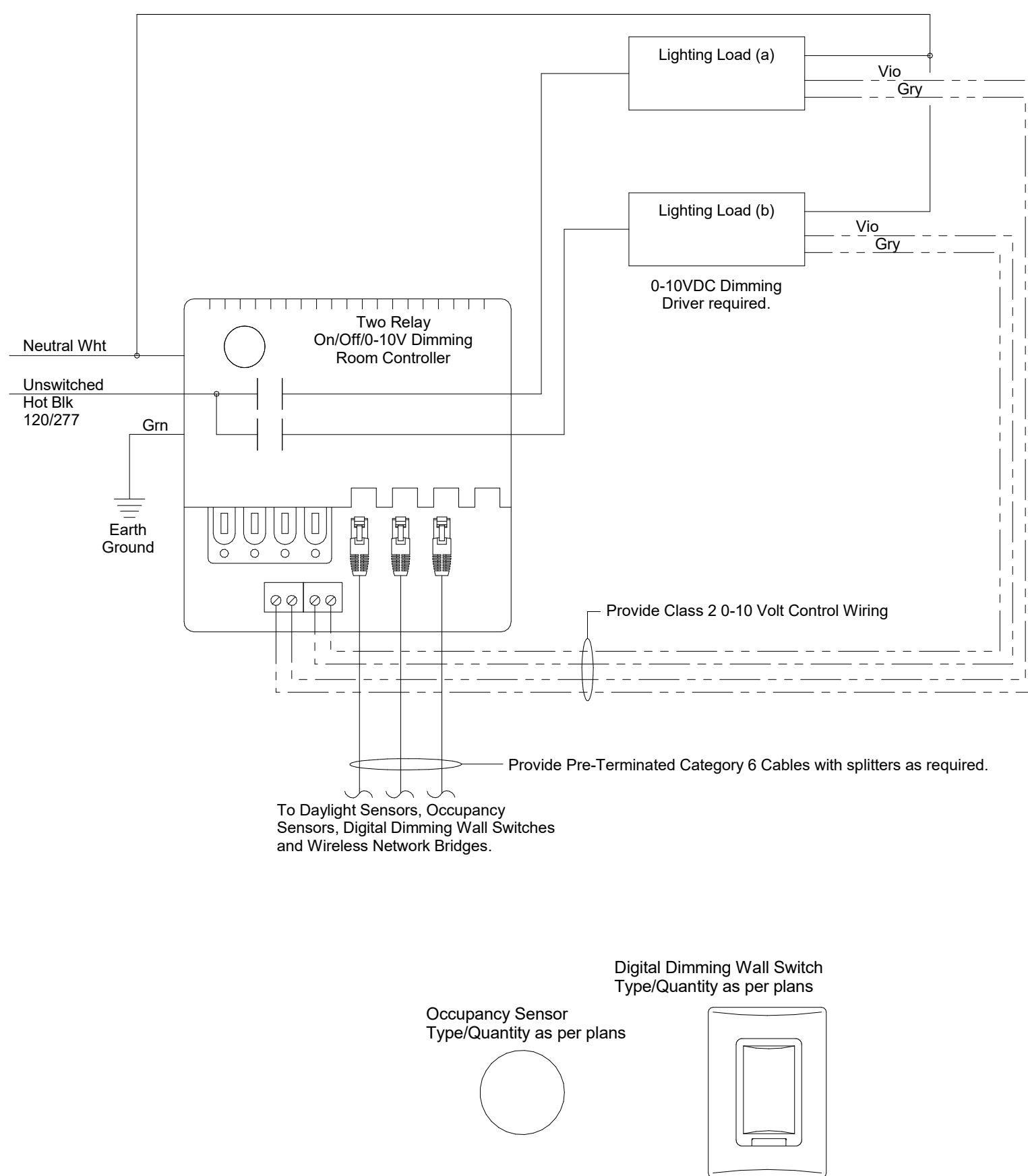
- NOTES:
1. INSTALL ROOM CONTROLLER NO MORE THAN 2' ABOVE ACCESSIBLE CEILING.
 2. INSTALL NETWORK BRIDGE NEXT TO ROOM CONTROLLER.

1 RELAY APPLICATION WITH
0-10V DIMMING WIRING DIAGRAM
NO SCALE



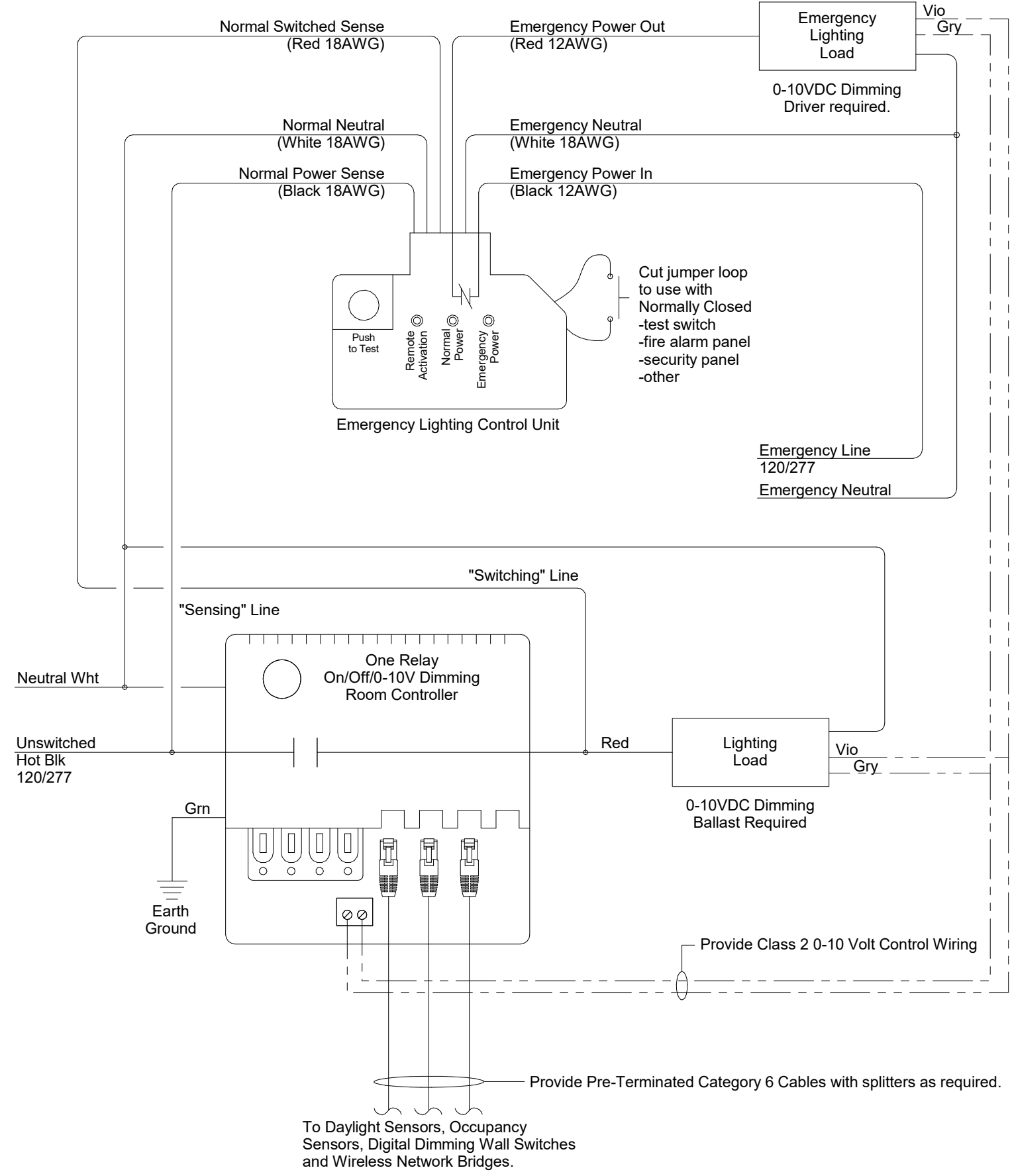
- NOTES:
1. INSTALL ROOM CONTROLLER NO MORE THAN 2' ABOVE ACCESSIBLE CEILING.
 2. INSTALL NETWORK BRIDGE NEXT TO ROOM CONTROLLER.

3 RELAY APPLICATION WITH
0-10V DIMMING WIRING DIAGRAM
NO SCALE



- NOTES:
1. INSTALL ROOM CONTROLLER NO MORE THAN 2' ABOVE ACCESSIBLE CEILING.
 2. INSTALL NETWORK BRIDGE NEXT TO ROOM CONTROLLER.

2 RELAY APPLICATION WITH
0-10V DIMMING WIRING DIAGRAM
NO SCALE

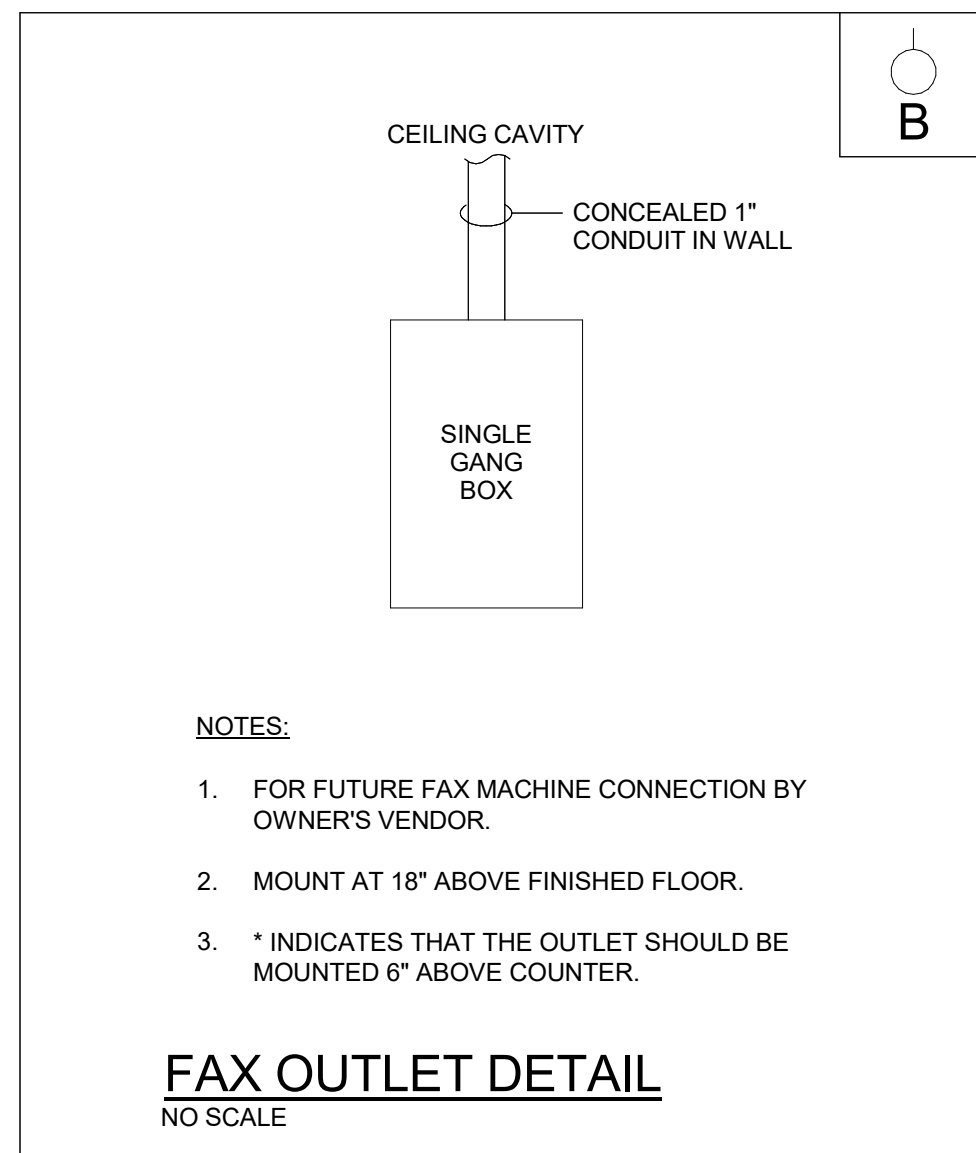


- SEQUENCE OF OPERATION:
- UPON THE LOSS OF NORMAL POWER, THE EMERGENCY LIGHTING CONTROL UNIT WILL BYPASS THE ROOM CONTROLLER AND FORCE THE EMERGENCY FIXTURES ON. THE ROOM CONTROLLER WILL FORCE THE DIMMED EMERGENCY FIXTURES TO 100%.

- NOTES:
1. PROVIDE QUANTITY OF UL LISTED EMERGENCY LIGHTING CONTROL DEVICES AS REQUIRED BY THE PROJECT.

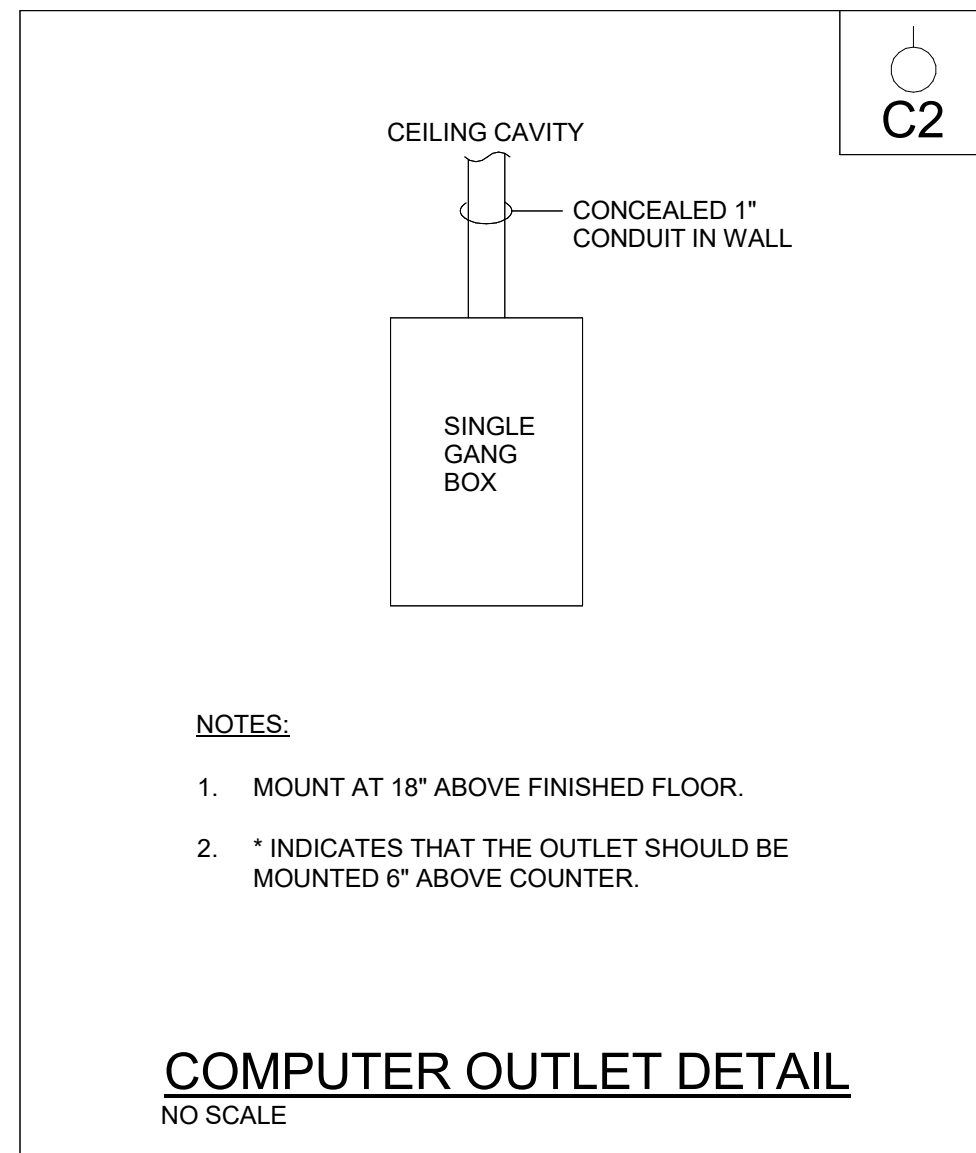
TYPICAL ROOM CONTROLLER WITH
EMERGENCY BYPASS WIRING DIAGRAM
NO SCALE

LIGHTING CONTROLS SEQUENCE OF OPERATIONS FOR SECTION 260940		
ROOM/SPACE NAME	ROOM/SPACE OPERATION	ROOM BUTTON STATIONS
CORRIDORS VESTIBULES WAITING	BETWEEN THE HOURS OF 6:00AM AND 4:00PM 'ON': OCCUPANCY SENSOR 'OFF': LUMINAIRES STAY ON DURING THESE HOURS - ROOM PEAK LEVEL TO BE SET AT 80% OF MAX LEVEL. - OCCUPANCY SENSORS SHALL TURN ALL LOADS OFF AFTER THE SPACE IS VACATED FOR 20 MINUTES. - WHERE APPLICABLE, DAYLIGHT SENSOR SHALL LOWER THE DIMMING ZONE LUMINAIRES TO THE PRESET LEVEL. BETWEEN THE HOURS OF 4:00PM AND 6:00AM 'ON': OCCUPANCY SENSOR 'OFF': OCCUPANCY SENSOR - ROOM PEAK LEVEL TO BE SET AT 80% OF MAX LEVEL. - OCCUPANCY SENSORS SHALL TURN ALL LOADS OFF AFTER THE SPACE IS VACATED FOR 30 MINUTES AFTER A BLINK WARN.	
OPEN OFFICES WORK ROOMS BREAK ROOMS RECEPTION TASK LIGHTING	'ON': MANUAL BY WALL STATION 'OFF': OCCUPANCY SENSOR - ROOM PEAK LEVEL TO BE SET AT 80% OF MAX LEVEL. - OCCUPANCY SENSORS SHALL TURN ALL LOADS OFF AFTER THE SPACE IS VACATED FOR 30 MINUTES.	D S BUTTON WITH FULL DIMMING
JANITORS CLOSETS SINGLE-USER TOILETS	'ON': MANUAL BY WALL STATION 'OFF': INTEGRAL OCCUPANCY SENSOR - ROOM PEAK LEVEL TO BE SET AT 80% OF MAX LEVEL. - INTEGRAL OCCUPANCY SENSOR SHALL TURN ALL LOADS OFF AFTER THE SPACE IS VACATED FOR 20 MINUTES.	OS S BUTTON W/ INTEGRAL OCCUPANCY - 80% ENTIRE ROOM
PRIVATE OFFICES INTERVIEW ROOMS	'ON': MANUAL BY WALL STATION 'OFF': INTEGRAL OCCUPANCY SENSOR - ROOM PEAK LEVEL TO BE SET AT 80% OF MAX LEVEL. - INTEGRAL OCCUPANCY SENSOR SHALL TURN ALL LOADS OFF AFTER THE SPACE IS VACATED FOR 20 MINUTES.	MP S BUTTON W/ INTEGRAL OCCUPANCY / FULL DIMMING
MAIN LOBBY CONFERENCE ROOM	'ON': MANUAL BY WALL STATION 'OFF': OCCUPANCY SENSOR / MANUAL BY WALL STATION - ROOM PEAK LEVEL TO BE SET AT 80% OF MAX LEVEL. - OCCUPANCY SENSORS SHALL TURN ALL LOADS OFF AFTER THE SPACE IS VACATED FOR 20 MINUTES AFTER BLINK WARNING. - WHERE APPLICABLE, DAYLIGHT SENSOR SHALL LOWER THE DIMMING ZONE LUMINAIRES TO THE PRESET LEVEL. - SETUP SCENES SO THEY HAVE THE ABILITY TO LOWER THE LIGHT LEVEL BELOW THE DAYLIGHT SENSOR THRESHOLD.	4D S BUTTON ONE - 80% ENTIRE ROOM BUTTON TWO - a ZONE 80% BUTTON THREE - b ZONE 80% BUTTON FOUR - ON/RAISE-OFF/LOWER
STORAGE / EVIDENCE GANG TOILETS JANITORS IDF ROOMS SIMILAR SPACES	'ON': MANUAL BY WALL STATION 'OFF': OCCUPANCY SENSOR - ROOM PEAK LEVEL TO BE SET AT 80% OF MAX LEVEL. - OCCUPANCY SENSORS SHALL TURN ALL LOADS OFF AFTER THE SPACE IS VACATED FOR 20 MINUTES.	1 S BUTTON - 80% ENTIRE ROOM



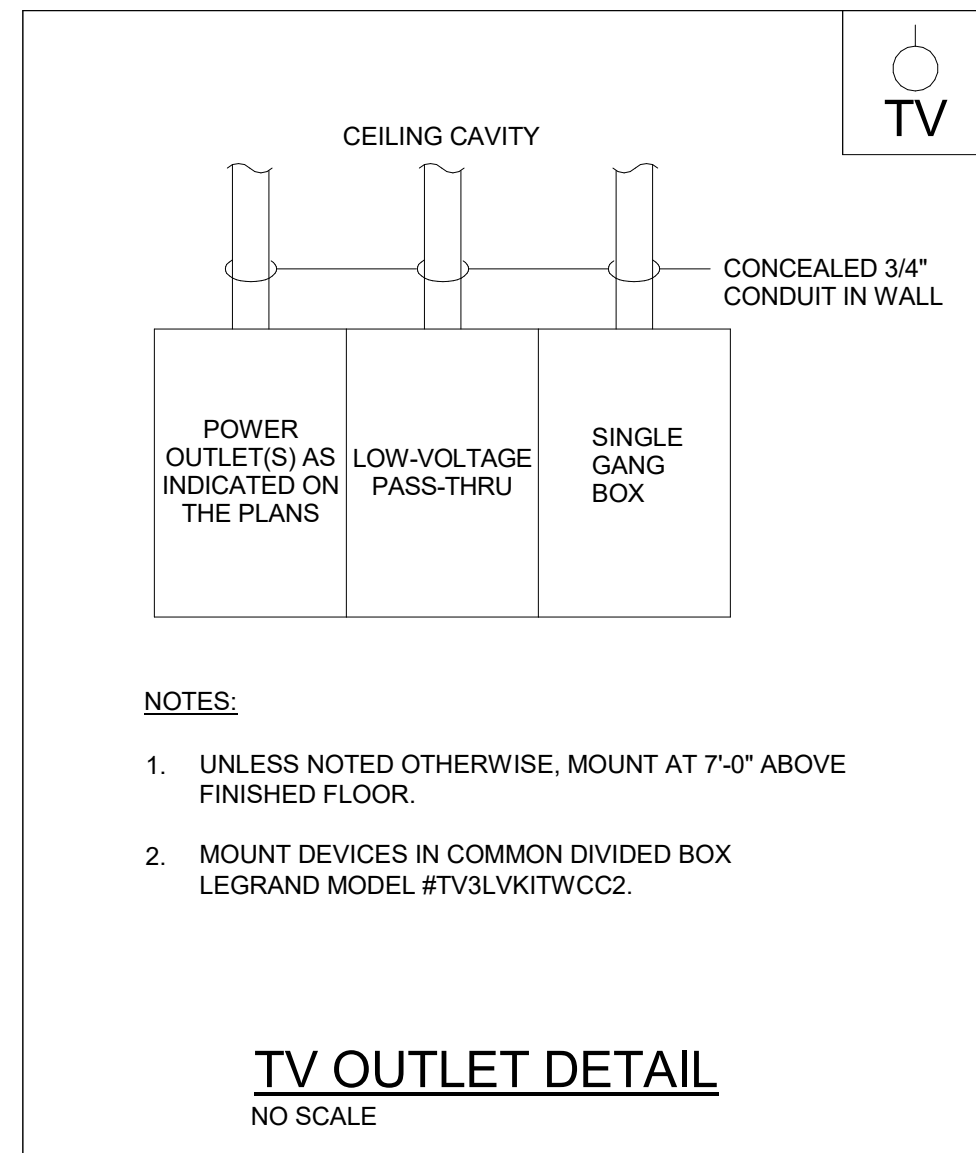
- NOTES:
1. FOR FUTURE FAX MACHINE CONNECTION BY OWNER'S VENDOR.
 2. MOUNT AT 18" ABOVE FINISHED FLOOR.
 3. * INDICATES THAT THE OUTLET SHOULD BE MOUNTED 6" ABOVE COUNTER.

FAX OUTLET DETAIL
NO SCALE



- NOTES:
1. MOUNT AT 18" ABOVE FINISHED FLOOR.
 2. * INDICATES THAT THE OUTLET SHOULD BE MOUNTED 6" ABOVE COUNTER.

COMPUTER OUTLET DETAIL
NO SCALE



- NOTES:
1. UNLESS NOTED OTHERWISE, MOUNT AT 7'-0" ABOVE FINISHED FLOOR.
 2. MOUNT DEVICES IN COMMON DIVIDED BOX LEGRAND MODEL #TV3LVKTVCC2.

TV OUTLET DETAIL
NO SCALE

GENERAL NOTES:

1. ALL BOXES TO BE RECESSED IN EXISTING WALLS WHERE WALLS ARE FISABLE. ANY EXCEPTIONS TO BE APPROVED BY THE ENGINEER BEFORE INSTALLATION.
2. SURFACE RACEWAY MAY ONLY BE USED WHEN WALLS ARE NOT FISABLE.
3. THROUGHOUT NEW INSTALLATIONS, ALL RACEWAYS AND BOXES TO BE CONCEALED IN THE NEW CONSTRUCTION.