



## DIVISION OF FINANCE – PURCHASING DEPARTMENT

100 N. Broadway St, Suite 610 Wichita, KS 67202 • Phone (316) 660-7255 • Fax (316) 660-1839

[PURCHASING@SEDGWICK.GOV](mailto:PURCHASING@SEDGWICK.GOV) • [SEDGWICKCOUNTY.ORG](http://SEDGWICKCOUNTY.ORG)

### ADDENDUM #4

#### RFB #25-0074

### SEDGWICK COUNTY COURTHOUSE ANNEX REMODEL PHASE 2 - CORRECTIONS

October 17, 2025

The following is to ensure that vendors have complete information prior to submitting a *Request for Bid*. Here are some clarifications regarding the Annex Remodel Phase 2 - Corrections:

Questions and/or statements of clarification are in **bold** font, and answers to specific questions are *italicized*.

**Please see attached changes.**

Firms interested in submitting a *Request for Bid*, must respond with complete information and **deliver on or before 1:45 pm, December 2, 2025**. Late responses will not be accepted and will not receive consideration for final award.

**“PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE RESPONSE PAGE.”**

A handwritten signature in blue ink that reads "Tammy Culley".

Tammy Culley  
Purchasing Agent

TC/ch

**5 Addendum Number One**

This Addendum is hereby made part of the Contract Documents to the same extent as though it were originally included therein. Refer to "Bid Form" for acknowledgment of Addenda.

- 10 All Contractors, Subcontractors and suppliers are reminded that they shall be familiar with all Addenda items (as well as all parts of the Construction Documents) so as to understand the extent of their work and its interrelation with other trades.

To all bidders for furnishing all labor and materials necessary for the following Contract:

15 Sedgwick Co Courthouse Annex Remodel – Phase 2 - Corrections  
525 N. Main Street  
WICHITA, KANSAS 67203

20 Prepared by:  
Schaefer Architecture

**GENERAL:**

---

25

**ITEM AD1-G01**  
CLARIFICATION**Pre-Bid Questions:**

30

**Question:** 'Invitation for Bids' calls for Buy America/Davis-Bacon. Is that correct?

**Answer:** Buy America/Davis-Bacon will not apply to this project.

35

**Question:** Who is taking care of the asbestos remediation?

**Answer:** The general contractor will include the asbestos remediation in their bid.

40

**Question:** Is the ORU going to be moved into their adjacent space and operational?

**Answer:** The ORU will be moved and is not to be disturbed as much as possible. It can't be shut down during operating hours.

45

**Question:** Where is the water shut off?

**Answer:** The main shut off is in the basement of the annex, but each floor has its own shut off. The first-floor water shut off affects the restroom used by the ORU so there will need to be coordinating/scheduling between the general contractor and the ORU.

50

**Question:** Where is a good place to discharge wastewater?

**Answer:** General contractor can find a nearby service sink.

55

**Question:** Do the existing lights that will be reused need to be relamped or retrofitted for LED?

**Answer:** Relocated fixtures should be in good working condition, but do not need to be relamped.

**Question:** Is there elevator access to the annex?

- 5                    **Answer:** There's no elevator in the annex, but one elevator can be used in the main courthouse elevator bank when absolutely necessary, requiring coordination. General contractor is to use the central stairs in the annex as much as possible.
- 10                   **Question:** Is there an area where the existing light fixtures can be stored during construction?  
**Answer:** The general contractor will need to phase their work zones to store existing light fixtures in an area not under construction at that time. There's no surplus storage room available.
- 15                   **Question:** There is no mention of this project being Fire Sprinkled. Is this project to have a Fire Sprinkler System?  
**Answer:** No.
- 20    **ITEM AD1-G02**    **Specification Section 00 01 10 Table of Contents:**  
      ADDITION       Add specification section "09 67 00 Fluid-Applied Flooring" to Table of Contents.  
      DELETION       The following sections removed from the table of Contents:  
                             08 44 35 Protective Framed Glazing Assemblies  
25                       08 51 13 Aluminum Windows  
                             08 56 53 Security Windows  
                             08 88 53 Security Glazing  
                             11 19 00 Detention Equipment
- 30    **ITEM AD1-G03**    **Instructions to Bidders**  
      REVISION       The following dates have been revised in the 'Instructions to Bidders':  
                             **Last questions received – Wednesday, November 12, 2025 at 5:00 p.m. CDT**  
                             **Last Addendum Issued – Friday, November 21, 2025 at 5:00 p.m. CDT**  
                             **Bids Due in Purchasing – Tuesday, December 2, 2025 at 1:45 p.m. CDT**  
35                       **Bid Opening – Tuesday, December 2, 2025 at 2:15 p.m. CDT**  
                             **Board of Bids and Contracts – Thursday, December 4, 2025 at 10:00 a.m. CDT**  
                             **Board of County Commissioners – Wednesday, December 10, 2025 at 9:00 a.m. CDT**
- 40    **ITEM AD1-G04**    **Specification Section 08 11 13 Hollow Metal Doors and Frames:**  
      REVISION       Replace specification section 08 11 13 Hollow Metal Doors and Frames as attached.
- 45    **ITEM AD1-G05**    **Specification Section 08 71 00 Door Hardware:**  
      ADDITION       Replace specification section 08 71 00 Door Hardware as attached, including Hardware Schedule.
- 50    **ITEM AD1-G06**    **Specification Section 09 30 00 Tiling:**  
      REVISION       Replace specification section 09 30 00 Tiling as attached.
- 50    **ITEM AD1-G07**    **Specification Section 09 67 00 Fluid-Applied Flooring:**  
      ADDITION       Add specification section 09 67 00 Fluid-Applied Flooring as attached.
- 55    **ARCHITECTURAL:**
-

|    |                                                        |                                                                                                                                                                                                                                                                         |
|----|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5  | <b><u>ITEM AD1-A01</u></b><br>REVISION                 | <b>Drawing Sheet A21.1:</b><br>Existing walls to remain around column wrap.                                                                                                                                                                                             |
| 10 | <b><u>ITEM AD1-A02</u></b><br>REVISION                 | <b>Drawing Sheet A22.1:</b><br>Panic button note removed.<br>Detail callout revised to A1/A61.2.<br>Keynote 11.41 – Metal detector provided and installed by general contractor.                                                                                        |
| 15 | <b><u>ITEM AD1-A03</u></b><br>REVISION                 | <b>Drawing Sheet A23.1:</b><br>Storage 117 ceiling dropped to 8'-0".                                                                                                                                                                                                    |
| 20 | <b><u>ITEM AD1-A04</u></b><br>REVISION                 | <b>Drawing Sheet A28.1:</b><br>Sealed concrete changed to fluid applied flooring.<br>Storage 117 flooring revised to carpet.                                                                                                                                            |
| 25 | <b><u>ITEM AD1-A05</u></b><br>REVISION                 | <b>Drawing Sheet A52.1:</b><br>U.A. RR elevations revised to remove the tile base and extend the wall tile to 5'-0" A.F.F.                                                                                                                                              |
| 30 | <b><u>ITEM AD1-A06</u></b><br>ADDITION                 | <b>Drawing Sheet A52.2:</b><br>Panic button note added to detail F3.                                                                                                                                                                                                    |
| 35 | <b><u>ITEM AD1-A07</u></b><br>REVISION                 | <b>Drawing Sheet A61.1:</b><br>Detail A5, A7, B1, and B3 revised.                                                                                                                                                                                                       |
| 40 | <b><u>ITEM AD1-A08</u></b><br>REVISION                 | <b>Drawing Sheet A61.2:</b><br>Detail renumbered to A1.                                                                                                                                                                                                                 |
| 45 | <b><u>ITEM AD1-A09</u></b><br>REVISION<br><br>DELETION | <b>Drawing Sheet A72.1:</b><br>Sealed concrete replaced by fluid applied flooring.<br>Tile Wall TW-1 size corrected to 12"x24".<br>TB-1 Tile base and TG-2 Tile grout no longer used.                                                                                   |
| 50 | <b><u>MECHANICAL:</u></b>                              |                                                                                                                                                                                                                                                                         |
| 55 | None.                                                  |                                                                                                                                                                                                                                                                         |
| 60 | <b><u>ELECTRICAL:</u></b>                              |                                                                                                                                                                                                                                                                         |
| 65 | <b><u>ITEM AD1-E01</u></b><br>DELETION                 | <b>Drawing Sheet ED22.2:</b><br>Existing pendants removed from second floor plan.                                                                                                                                                                                       |
| 70 | <b><u>ITEM AD1-E02</u></b><br>REVISION                 | <b>Drawing Sheet E22.1:</b><br>Panic buttons below the countertop added in Reception 102.<br>Note 10 added – Speaker and security system to be included in electrical bid and provided by Sandifer Engineering & Controls. Contact Sandifer for additional information. |
| 75 | <b><u>ITEM AD1-E03</u></b>                             | <b>Drawing Sheet E22.2:</b>                                                                                                                                                                                                                                             |

- 5 REVISION Note 10 added – Speaker and security system to be included in electrical bid and provided by Sandifer Engineering & Controls. Contact Sandifer for additional information.

Attached

- 10 00 01 10 Table of Contents  
02 – Instructions to Bidders  
08 11 13 Hollow Metal Doors and Frames  
08 71 00 Door Hardware  
09 30 00 Tiling  
15 09 67 00 Fluid-Applied Flooring  
  
A21.1 – Demolition Plan  
A22.1 – Floor Plan  
A23.1 – Reflected Ceiling Plan  
20 A28.1 – Finish Plan  
A52.1 – Enlarged Plans  
A52.2 – Millwork Elevations and Details  
A61.1 – General Details  
A61.2 – Door and Window Details  
25 A72.1 – Door, Windows, and Schedules  
ED22.2 – 2nd Floor Demolition  
E22.1 – 1st Floor Power and Lighting Plan  
E22.2 – 2nd Floor Power and Lighting Plan  
  
30 **End of Addendum Number One**

**SECTION 00 01 10 - TABLE OF CONTENTS**

**PROCUREMENT AND CONTRACTING REQUIREMENTS**

**Division 00 -- Procurement and Contracting Requirements**

00 01 07 - Seals Page  
00 01 10 - Table of Contents  
Invitation for Bid  
Instructions To Bidders  
Bid Form  
Bid Terms and Conditions  
Performance Labor and Material Bonds  
KS Statutory Payment Bond  
Performance Bond  
Certified Copy of a Resolution  
Exhibit A - small projects  
Subcontracting Work Sheet  
Form of Contract

**AIA DOCUMENTS**

AIA A104 Standard Abbreviated Form of Agreement Between Owner & Contractor -  
2017.

**SPECIFICATIONS**

**Division 01 -- General Requirements**

01 10 00 - Summary  
01 25 00 - Substitution Procedures  
01 30 00 - Administrative Requirements  
01 40 00 - Quality Requirements  
01 41 00 - Regulatory Requirements  
01 42 16 - Definitions  
01 45 33 - Code-Required Special Inspections  
01 50 00 - Temporary Facilities and Controls  
01 51 00 - Temporary Utilities  
01 60 00 - Product Requirements  
01 70 00 - Execution and Closeout Requirements  
01 78 00 - Closeout Submittals  
01 79 00 - Demonstration and Training

**Division 02 -- Existing Conditions**

02 41 00 - Demolition

**Division 03 -- Concrete**

**Division 04 -- Masonry**

**Division 05 -- Metals**

05 40 00 - Cold-Formed Metal Framing

**Division 06 -- Wood, Plastics, and Composites**

06 10 00 - Rough Carpentry

- 06 20 00 - Finish Carpentry
- 06 41 00 - Architectural Wood Casework

**Division 07 -- Thermal and Moisture Protection**

- 07 21 00 - Thermal Insulation
- 07 62 00 - Sheet Metal Flashing and Trim
- 07 84 00 - Firestopping
- 07 92 00 - Joint Sealants

**Division 08 -- Openings**

- 08 11 13 - Hollow Metal Doors and Frames
- 08 11 15 - Bullet-Resistant Steel Doors and Frames
- 08 14 16 - Flush Wood Doors
- 08 31 00 - Access Doors and Panels
- 08 43 13 - Aluminum-Framed Storefronts
- 08 56 59 - Service and Teller Window Units
- 08 71 00 - Door Hardware
  - Hardware Schedule
- 08 80 00 - Glazing
- 08 87 23 - Safety and Security Films
- 08 91 00 - Louvers

**Division 09 -- Finishes**

- 09 05 61 - Common Work Results for Flooring Preparation
- 09 21 16 - Gypsum Board Assemblies
- 09 30 00 - Tiling
- 09 51 00 - Acoustical Ceilings
- 09 65 00 - Resilient Flooring
- 09 67 00 - Fluid-Applied Flooring
- 09 68 13 - Tile Carpeting
- 09 91 23 - Interior Painting
- 09 96 00 - High-Performance Coatings

**Division 10 -- Specialties**

- 10 14 00 - Signage
- 10 26 41 - Ballistics Resistant Panels
- 10 28 00 - Toilet, Bath, and Laundry Accessories
- 10 44 00 - Fire Protection Specialties
- 10 51 13 - Metal Lockers
- 10 56 17 - Wall Mounted Standards and Shelving

**Division 11 -- Equipment**

**Division 12 -- Furnishings**

- 12 21 13 - Horizontal Louver Blinds
- 12 36 00 - Countertops

**Division 22 -- Plumbing**

- 22 05 05 - Plumbing General Notes
- 22 05 06 - Basic Plumbing Materials and Methods

## Remodel Phase 2 - Corrections

- 22 05 19 - Meters and Gauges for Plumbing Piping
- 22 05 23 - General-Duty Valves for Plumbing Piping
- 22 05 29 - Hangers and Supports for Plumbing Piping and Equipment
- 22 05 53 - Identification for Plumbing Piping and Equipment
- 22 07 19 - Plumbing Piping Insulation
- 22 11 16 - Domestic Water Piping
- 22 11 19 - Domestic Water Piping Specialties
- 22 13 16 - Sanitary Waste and Vent Piping
- 22 13 19 - Sanitary Waste Piping Specialties
- 22 14 16 - Storm Water Piping
- 22 14 23 - Storm Drainage Piping Specialties
- 22 40 00 - Plumbing Fixtures

**Division 23 -- Heating, Ventilating, and Air-Conditioning (HVAC)**

- 23 05 05 - Mechanical General Conditions
- 23 05 06 - Basic HVAC Materials and Methods
- 23 05 13 - Common Motor Requirements for HVAC Equipment
- 23 05 23 - General-Duty Valves for HVAC Piping
- 23 05 29 - Hangers and Supports for HVAC Piping and Equipment
- 23 05 93 - Testing and Balancing
- 23 07 13 - Duct Insulation
- 23 07 19 - HVAC Piping Insulation
- 23 09 00 - Instrumentation and Control for HVAC
- 23 21 13 - Hydronic Piping
- 23 31 13 - Metal Ducts
- 23 33 00 - Duct Accessories
- 23 34 23 - HVAC Power Ventilators
- 23 36 00 - Air Terminals
- 23 37 13 - Diffusers, Registers, and Grilles
- 23 40 00 - HVAC Air Cleaning Devices

**Division 26 -- Electrical**

- 26 05 00 - Basic Methods and Requirements
- 26 05 13 - Wires and Cables
- 26 05 26 - Grounding
- 26 05 30 - Raceway Systems
- 26 24 16 - Panelboards
- 26 27 26 - Wiring Devices
- 26 51 00 - Building Lighting

**Division 27 -- Communications**

- 27 00 00 - Communications Systems
- 27 10 00 - Building Data Communication Cabling

**END OF SECTION**



# **SEDGWICK COUNTY COURTHOUSE ANNEX REMODEL PHASE 2-CORRECTIONS**

## **INSTRUCTIONS TO BIDDERS**

PROJECT: Sedgwick County Courthouse Annex Remodel  
525 N. Main  
Wichita, KS, 67203

COUNTY BID NUMBER: **25-0074**

ARCHITECT: Justin Graham AIA, Associate Architect  
Schaefer Architecture  
257 N. Broadway  
Wichita, Kansas 67202-2303  
Telephone: (316) 684-0171  
E-mail: jgraham@schaefer-arch.com

Bids shall be made in accordance with these Instructions to Bidders:

- A. Responses to this invitation will be accepted only from General Contractors who are licensed to do business in Sedgwick County.
- B. Applications will also be accepted from General Contractors who have applied to receive a reciprocal license.
- C. A copy of General Contractor's Certificate of Insurance will be required to be submitted with the Bid at the time the bids are due. Insurance policy will be due from the successful contractor as part of the required documents prior to issuance of the notice to proceed.
- D. Bidding Documents shall include the Invitation for Bids, Bid Form, construction drawings, proposed Contract Documents, including any Addenda issued prior to receipt of Bids, supplemental information and any additional information requested.
- E. Bids must be on a lump sum basis and shall be the Contract Amount.
- F. Bidder Qualifications: For the duration of the project, all Prime Bidders shall be located within Sedgwick County, Kansas or establish an office in Sedgwick County, Kansas, and may be required by the Owner to furnish information to support the Bidder's capability to fulfill the Contract if awarded the Contract. Such information does not need to be submitted with the Bid, but may be requested at the Owner's option. Such information may include, but not be limited to, the following:
  - 1. Proof of registration with the Kansas Director of Taxation by non-resident Bidders (K.S.A. 79-1009).
  - 2. Proof of registration with the Kansas Secretary of State by foreign corporations.
  - 3. List of projects of similar size and type the Bidder has constructed or in which the Bidder has been engaged in a responsible capacity.
  - 4. Evidence the Bidder maintains a permanent place of business.
  - 5. A current financial statement.

### **Examination:**

- 1. BEFORE SUBMITTING A BID, each Bidder shall examine carefully all documents pertaining to the work and visit the site to fully inform himself of the condition of the site and the conditions and limitations under which the work is to be performed.
- 2. SUBMISSION OF A BID will be considered presumptive evidence that the Bidder has fully informed himself of the conditions of the site, requirements of the Contract Documents, and of

## **SEDGWICK COUNTY COURTHOUSE ANNEX REMODEL PHASE 2-CORRECTIONS**

pertinent national, state and local codes and ordinances, and that the Bid made allowances for all conditions, requirements and contingencies.

3. In reviewing these Documents, it is evident that certain information, if disclosed to the public, may jeopardize the security of Sedgwick County, and appropriate measures will be taken to maintain confidentiality.
4. **In order to ensure each bidder has the most current information for bidding there is an established date and time for last questions to be asked. Bidders requiring clarification or interpretation of the Bidding Documents shall make such requests, in writing only, to the Purchasing Agent no later than 5:00 p.m. CDT on Wednesday, October 8, 2025.**
5. Samples shall be submitted by the above referenced deadline to permit evaluation and notification of Bidders.
6. Any interpretation, correction or change of the Bidding Documents will be made by written Addenda. Interpretations, corrections, or changes of the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely upon such interpretations, corrections, and changes.

### **Addenda:**

1. DISCREPANCIES OR OMISSIONS in the documents will be clarified in the form of an electronic Addendum and will be posted on the County web site. Bidders finding discrepancies, omissions, or who are in doubt as to the meaning of any portion of the Contract Documents, should immediately request an interpretation from the Senior Purchasing Agent. In response, an Addendum will be issued and the contractor shall rely solely on information contained in the written Addenda about said discrepancy or omission. **Neither the Architect nor the Owner will be responsible for any other form of instructions or interpretations given to the contractor, either verbal or written.**
2. ADDENDA received by Bidders shall be acknowledged by same on their Bid Form.

### **Substitutions:**

1. Each Bidder represents that their Bid is based upon materials and equipment described in the Bidding Documents.
2. No substitution will be considered unless written request has been submitted to the Purchasing Agent and the Architect, in duplicate, for approval by **5:00 p.m. CDT on Wednesday, October 8, 2025**. Each such request shall include a complete description of the proposed substitute, drawings, cuts, performance or test data, or information necessary for a complete evaluation. If the Architect approves any proposed substitution, such approval will be set forth in an Addendum.

### **Preparation of Bids:**

1. BIDS shall be made on unaltered Bid Forms furnished by the County, or detached from this Project Manual.
2. FILL IN all blanks on the Bid Form with ink or type. Blanks left on Bid Form may be cause for disqualification of Bidder.
3. SIGN BID FORM in longhand, with name typed below signature. Where Bidder is a Corporation, Bids must be signed with the legal name of the Corporation, followed by the legal signature of an officer authorized to bind the Corporation to a contract.
4. RECAPITULATION of work to be done shall not be included with any Bid.

## **SEDGWICK COUNTY COURTHOUSE ANNEX REMODEL PHASE 2-CORRECTIONS**

5. Where so indicated by the makeup of the Bid Form, amounts shall be expressed in both words and figures, and in case of discrepancy between the two, the written amount shall govern.

### **Identification and Submission of Bid:**

1. Contractor shall provide one (1) Original of the Bid Response Form, Bid Security and other supplemental information required to be submitted with the Bid.
2. All of the Bid Documents shall be enclosed in a sealed envelope with the notation "Bid Enclosed" on the face. The firm name and address, Bid number, Bid opening date, and Bid opening time shall be provided in the lower left-hand corner of the Envelope.

### **Modification and Withdrawal of Bid:**

1. A Bid may not be modified, withdrawn or canceled by the Bidder during the stipulated time period that a Bidder's Bid Security is held following the time and date designated for the receipt of Bids. The Bidder so agrees in submitting his Bid.
2. **WITHDRAWAL BEFORE BID OPENING:** A Bid may be withdrawn at any time before Bid Opening, but may not be resubmitted. If a bidder withdraws a bid, as authorized in K.S.A. 75-6905, the awarding authority may require that such bidder shall not be allowed to perform any work on the project through subcontract agreements or by any other means including re-bids.
3. **AFTER BID OPENING:** No Bid may be withdrawn or modified, except where the award of contract has been delayed for more than 60 days.

In the event of an Award, the lowest, responsive, responsible and best bid price meeting the specifications will be required to enter into contract required for the Project. Said Bidder shall also provide a Performance Bond for the full amount of the contract. The Performance Bond, in the amount of 100% of the Contract amount, must be submitted within 30 calendar days after award of contract. Failure to return these Documents within the required time period may cause a cancellation of the Award.

### **Consideration of Bids/Selection Process:**

1. Bids received will be opened and read aloud publicly.
2. Owner shall have the right to determine the acceptable Bidder on the basis of the sum of the Base Bid and the Alternates accepted.
3. The Owner will award a contract to the lowest, responsive, responsible and best Bidder provided:
  - a. The Bid conforms to and has been submitted according to the requirements of the Bidding Documents and includes the Certificate of Insurance including Contractor's General Automotive Liability, Workers Compensation Insurance and Owner's Liability Insurance.
  - b. The Bid is judged to be reasonable.
  - c. The Bid does not exceed the funds available.
  - d. The Bid complies with the Instruction to Bidders and Mandatory Requirements.
  - e. The completion time is satisfactory to the Owner.

## **SEDGWICK COUNTY COURTHOUSE ANNEX REMODEL PHASE 2-CORRECTIONS**

- f. Evidence of the experience, qualifications and financial responsibility of the Bidder and his Subcontractors and the time of completion are all satisfactory to the Owner.
  - g. The County reserves the right to reject Bidders in accordance with the Bidding Documents.
- 4. Bids will be screened by a Review Committee consisting of the Project Manager, Architect and the Purchasing Agent.
  - 5. No negotiations, decisions, or actions shall be initiated by any firm as a result of any verbal discussion with the Owner or employee of the Owner before the opening of responses to the document.
  - 6. The Owner shall have the right to waive any informality and/or irregularity in any Bid received.
  - 7. The Owner shall have the right to reject any and all Bids.

### **Time for Completion and Liquidated Damages:**

All Bidders are required to state on the Bid Form the time needed for all work under the general contract to be completed, which would yield their best Bid. Unless otherwise required, this time frame shall be stated in calendar days and shall represent the Contractor's commitment to complete the project on schedule.

The contractual period will begin with the issuance of Notice to Proceed and continue through completion of the project.

The Agreement will include a stipulation that liquidated damages will be assessed in the amount of \$500.00 per calendar day after Completion Date that the work is not substantially complete.

Upon satisfactory completion of the Contract, a formal CERTIFICATE OF PROJECT COMPLETION will be forwarded to the Contractor by the Project Architect. The date of substantial completion of the Project will be the starting date of the warranty period.

All work shall be in accordance with all Federal and State Laws, Local Ordinances and Building Codes, and the 2010 Standards for Accessible Design.

Taxes: Materials and equipment incorporated in the work are exempt from payment of sales tax under the laws of the State of Kansas.

### **Project Time Line:**

The following dates are provided in addition to those previously stated to help interested contractors in planning participation in the project herein. The dates listed, however, are in no way guaranteed and are subject to change without notice.

**Project out for bid – Wednesday, September 17, 2025**

**Pre-bid Meeting – Wednesday, September 24, 2025 at 9:00 a.m. CDT**

**Last questions received – Wednesday, November 12, 2025 at 5:00 p.m. CDT**

**Last Addendum Issued – Friday, November 21, 2025 at 5:00 p.m. CDT**

**Bids Due in Purchasing – Tuesday, December 2, 2025 at 1:45 p.m. CDT**

**Bid Opening – Tuesday, December 2, 2025 at 2:15 p.m. CDT**

**Board of Bids and Contracts – Thursday, December 4, 2025 at 10:00 a.m. CDT**

**Board of County Commissioners – Wednesday, December 10, 2025 at 9:00 a.m. CDT**

## **SEDGWICK COUNTY COURTHOUSE ANNEX REMODEL PHASE 2-CORRECTIONS**

### **Notice to Proceed:**

No work shall commence until the Owner issues a Notice To Proceed, and a Notice To Proceed will not be issued until all of the following are delivered to the Project Services Office, 271 W 3<sup>rd</sup> St., Suite 325, Wichita, Kansas, 67202, by the selected vendor:

1. The Contract signed by the representative with authority and ability to do so.
2. Performance and Statutory Bonds with the attached powers of attorney. Attach the receipt of the Clerk of the District Court to the Statutory Bond.
3. List of subcontractors and supplier's proof of a valid Contractor's license from the jurisdiction in which the work is being performed for both contractor and applicable sub-contractors is required.
4. Corporate Resolution of authority to sign and deliver the Contract Documents, executed by the Corporation's Secretary or Assistant Secretary and dated before all other dated submittals.
5. Domestic (Kansas) corporations shall furnish evidence of good standing in the form of a Certificate signed by the Kansas Secretary of State. Foreign (non-Kansas) corporations shall furnish evidence of authority to transact business in Kansas, in the form of a Certificate signed by the Kansas Secretary of State.
6. Construction Schedule with major milestones identified.
7. Insurance Certification for Payment.

Such documents must be delivered within ten (10) days of the Owner's written notification to the successful Bidder. If they are not delivered within such time then the Bidder will be deemed to have abandoned its contract with the Owner, and the Owner will award a contract to the next lowest and best Bid.

1. The successful Bidder shall not make claim either for time or money against the Owner for labor or materials performed or delivered prior to issuance of the Notice to Proceed.
2. The County's responsibility to issue a Notice To Proceed is expressly conditioned on the Contractor's timely execution and delivery of such documents.
3. The County intends to issue a Notice To Proceed within 30 days of receipt of Bids.
4. Bidders shall also note that the Work cannot begin until after a State of Kansas Sales Tax Exemption Certificate has been provided by Sedgwick County and affixed to the Purchase Order and the Notice to Proceed.
5. Contractor must submit Insurance Policy.

END OF INSTRUCTIONS TO BIDDERS

## **SECTION 08 11 13 - HOLLOW METAL DOORS AND FRAMES**

### **PART 1 GENERAL**

#### **1.01 RELATED DOCUMENTS**

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

#### **1.02 SUMMARY**

- A. Section Includes:
1. Standard and custom hollow metal doors and frames.
  2. Steel sidelight, borrowed lite and transom frames.
  3. Louvers installed in hollow metal doors.
  4. Light frames and glazing installed in hollow metal doors.
- B. Related Sections:
1. Division 01 Section "General Conditions".
  2. Division 04 Section "Unit Masonry" for embedding anchors for hollow metal work into masonry construction.
  3. Division 08 Section "Flush Wood Doors".
  4. Division 08 Section "Glazing" for glass view panels in hollow metal doors.
  5. Division 08 Section "Door Hardware".
  6. Division 08 Section "Access Control Hardware".
  7. Division 09 Sections "Exterior Painting" and "Interior Painting" for field painting hollow metal doors and frames.
- C. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
1. ANSI/SDI A250.8 - Recommended Specifications for Standard Steel Doors and Frames.
  2. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames, Frames Anchors and Hardware Reinforcing.
  3. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames.
  4. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.
  5. ANSI/SDI A250.11 - Recommended Erection Instructions for Steel Frames.
  6. ASTM A1008 - Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
  7. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
  8. ASTM A924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
  9. 10. SDI-113 Standard Practice for Determining the Steady-State Thermal Transmittance of Steel Door & Frame Assemblies.
  10. ASTM C 1363 - Standard Test Method for Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus.

11. ASTM C1199 - Standard Test Method for Measuring the Steady-State Thermal Transmittance of Fenestration Systems Using Hot Box Methods
12. ASTM E1423 - Practice for Determining Steady State Thermal Transmittance of Fenestration Systems.
13. ANSI/BHMA A156.115 - Hardware Preparation in Steel Doors and Frames.
14. ANSI/SDI 122 - Installation and Troubleshooting Guide for Standard Steel Doors and Frames.
15. ANSI/NFPA 80 - Standard for Fire Doors and Fire Windows; National Fire Protection Association.
16. ANSI/NFPA 105: Standard for the Installation of Smoke Door Assemblies.
17. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; National Fire Protection Association.
18. UL 10C - Positive Pressure Fire Tests of Door Assemblies.
19. UL 1784 - Standard for Air Leakage Tests of Door Assemblies.

### **1.03 SUBMITTALS**

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, core descriptions, hardware reinforcements, profiles, anchors, fire-resistance rating, and finishes.
- B. Door hardware supplier is to furnish templates, template reference number and/or physical hardware to the steel door and frame supplier in order to prepare the doors and frames to receive the finish hardware items.
- C. Shop Drawings: Include the following:
  1. Elevations of each door design.
  2. Details of doors, including vertical and horizontal edge details and metal thicknesses.
  3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
  4. Locations of reinforcement and preparations for hardware.
  5. Details of anchorages, joints, field splices, and connections.
  6. Details of accessories.
  7. Details of moldings, removable stops, and glazing.
  8. Details of conduit and preparations for power, signal, and control systems.
- D. Samples for Verification:
  1. Samples are only required by request of the architect and for manufacturers that are not current members of the Steel Door Institute.

### **1.04 QUALITY ASSURANCE**

- A. Source Limitations: Obtain hollow metal doors and frames through one source from a single manufacturer wherever possible.
- B. Quality Standard: In addition to requirements specified, furnish SDI-Certified manufacturer products that comply with ANSI/SDI A250.8, latest edition, "Recommended Specifications for Standard Steel Doors and Frames".
- C. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to UL10C (neutral pressure at 40" above sill) or UL 10C.
  1. Oversize Fire-Rated Door Assemblies Construction: For units exceeding sizes of tested assemblies, attach construction label certifying doors are built to standard construction requirements for tested and labeled fire rated door assemblies except for size.

2. Temperature-Rise Limit: Where indicated and at vertical exit enclosures (stairwell openings) and exit passageways, provide doors that have a maximum transmitted temperature end point of not more than 450 deg F (250 deg C) above ambient after 30 minutes of standard fire-test exposure.
  3. Smoke Control Door Assemblies: Comply with NFPA 105.
  4. Smoke "S" Label: Doors to bear "S" label, and include smoke and draft control gasketing applied to frame and on meeting stiles of pair doors.
- D. Fire-Rated, Borrowed-Light Frame Assemblies: Assemblies complying with NFPA 80 that are listed and labeled, by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing according to NFPA 257. Provide labeled glazing material.
- E. Pre-Submittal Conference: Conduct conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier, Installer, and Contractor to review proper methods and procedures for installing hollow metal doors and frames and to verify installation of electrical knockout boxes and conduit at frames with electrified or access control hardware.

#### **1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver hollow metal work palletized, wrapped, or crated to provide protection during transit and Project site storage. Do not use non-vented plastic.
- B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.
- C. Store hollow metal work under cover at Project site. Place in stacks of five units maximum in a vertical position with heads up, spaced by blocking, on minimum 4-inch high wood blocking. Do not store in a manner that traps excess humidity.
1. Provide minimum 1/4-inch space between each stacked door to permit air circulation. Door and frames to be stacked in a vertical upright position.

#### **1.06 PROJECT CONDITIONS**

- A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

#### **1.07 COORDINATION**

- A. Coordinate installation of anchorages for hollow metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.
- B. 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.

#### **1.08 WARRANTY**

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.



- B. Warranty includes installation and finishing that may be required due to repair or replacement of defective doors.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Manufacturers: Subject to compliance with requirements, provide steel doors and frames from a SDI Certified manufacturer:
  - 1. CECO Door Products (C).
  - 2. Curries Company (CU).
  - 3. Pioneer Industries (PI).

### **2.02 MATERIALS**

- A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.
- B. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.
- C. Frame Anchors: ASTM A 653/A 653M, Commercial Steel (CS), Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

### **2.03 HOLLOW METAL DOORS**

- A. General: Provide 1-3/4 inch doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8 and ANSI/NAAMM HMMMA 867.
- B. Exterior Doors: Face sheets fabricated of commercial quality hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:
  - 1. Design: Flush panel.
  - 2. Core Construction: Manufacturer's thermally enhanced QMax core. Where indicated provide doors fabricated as thermal-rated assemblies with a minimum thermal rating of 0.35 BTU/hr-ft<sup>2</sup>-F.
  - 3. Level/Model: Level 3 and Physical Performance Level A (Extra Heavy Duty), Minimum 16 gauge (0.053-inch - 1.3-mm) thick steel, Model 2.
  - 4. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet. Doors with an inverted top channel to include a steel closure channel, screw attached, with the web of the channel flush with the face sheets of the door. Plastic or composite channel fillers are not acceptable.
  - 5. Hinge Reinforcement: Minimum 7 gauge (3/16") plate 1-1/4" x 9" or minimum 14 gauge continuous channel with pierced holes, drilled and tapped.
  - 6. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.
- C. Interior Doors: Face sheets fabricated of commercial quality cold rolled steel that complies with ASTM A 1008/A 1008M. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:

1. Design: Flush panel.
2. Core Construction: Manufacturer's standard kraft-paper honeycomb, or one-piece polystyrene core, securely bonded to both faces.
  - a. Fire Door Core: As required to provide fire-protection and temperature-rise ratings indicated.
3. Level/Model: Level 2 and Physical Performance Level B (Heavy Duty), Minimum 18 gauge (0.042-inch - 1.0-mm) thick steel, Model 2.
4. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet.
5. Hinge Reinforcement: Minimum 7 gauge (3/16") plate 1-1/4" x 9" or minimum 14 gauge continuous channel with pierced holes, drilled and tapped.
6. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.

D. Manufacturers Basis of Design:

1. CECO Door Products (C) Honeycomb Core - Regent Series.
2. CECO Door Products (C) QMax Core - Imperial Series.
3. Curries Company (CU) - Honeycomb Core - 707 Series.
4. Curries Company (CU) - QMax Core - 707 Series.

**2.04 HOLLOW METAL FRAMES**

- A. General: Comply with ANSI/SDI A250.8 and with details indicated for type and profile.
- B. Exterior Frames: Fabricated of hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60.
1. Fabricate frames with mitered or coped corners. Profile as indicated on drawings.
  2. Frames: Minimum 14 gauge (0.067-inch - 1.7-mm) thick steel sheet.
  3. Manufacturers Basis of Design:
    - a. CECO Door Products (C) - SU SR Series.
    - b. Curries Company (CU) - M Series.
- C. Interior Frames: Fabricated from cold-rolled steel sheet that complies with ASTM A 1008/A 1008M.
1. Fabricate frames with mitered or coped corners. Profile as indicated on drawings.
  2. Frames: Minimum 16 gauge (0.053-inch - 1.3-mm) thick steel sheet.
  3. Manufacturers Basis of Design:
    - a. CECO Door Products (C) - SU Series.
    - b. Curries Company (CU) - M Series.
- D. Fire rated frames: Fabricate frames in accordance with NFPA 80, listed and labeled by a qualified testing agency, for fire-protection ratings indicated.
- E. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 Table 4 with reinforcement plates from same material as frames.

**2.05 FRAME ANCHORS**

- A. Jamb Anchors:
1. Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, formed from A60 metallic coated material, not less than 0.042

- ## 2.06 LIGHT OPENINGS AND GLAZING

- ## 2.07 ACCESSORIES

- ## 2.08 FABRICATION

- 15 SEPTEMBER 2025

required by NFPA 80 for fire-performance rating or where indicated. Extend minimum **3/4 inch** beyond edge of door on which astragal is mounted.

4. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge strap for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".

D. Hollow Metal Frames:

1. Shipping Limitations: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
2. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.
3. Welded frames are to be provided with two steel spreaders temporarily attached to the bottom of both jambs to serve as a brace during shipping and handling. Spreader bars are for bracing only and are not to be used to size the frame opening.
4. Sidelight and Transom Bar Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by butt welding.
5. High Frequency Hinge Reinforcement: Provide high frequency hinge reinforcements at door openings 48-inches and wider with mortise butt type hinges at top hinge locations.
6. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge straps for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".
7. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated for removable stops, provide security screws at exterior locations.
8. Mortar Guards: Provide guard boxes at back of hardware mortises in frames at all hinges and strike preps regardless of grouting requirements.
9. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
10. Jamb Anchors: Provide number and spacing of anchors as follows:
  - a. Masonry Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches on-center and as follows:
    - 1) Two anchors per jamb up to 60 inches high.
    - 2) Three anchors per jamb from 60 to 90 inches high.
    - 3) Four anchors per jamb from 90 to 120 inches high.
    - 4) Four anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 120 inches high.
  - b. Stud Wall Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:
    - 1) Three anchors per jamb up to 60 inches high.
    - 2) Four anchors per jamb from 60 to 90 inches high.
    - 3) Five anchors per jamb from 90 to 96 inches high.
    - 4) Five anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 96 inches high.
    - 5) Two anchors per head for frames above 42 inches wide and mounted in metal stud partitions.

11. Door Silencers: Except on weatherstripped or gasketed doors, drill stops to receive door silencers. Silencers to be supplied by frame manufacturer regardless if specified in Division 08 Section "Door Hardware".
  12. Bituminous Coating: Where frames are fully grouted with an approved Portland Cement based grout or mortar, coat inside of frame throat with a water based bituminous or asphaltic emulsion coating to a minimum thickness of 3 mils DFT, tested in accordance with UL 10C and applied to the frame under a 3rd party independent follow-up service procedure.
- E. Hardware Preparation: Factory prepare hollow metal work to receive template mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to the Door Hardware Schedule and templates furnished as specified in Division 08 Section "Door Hardware."
1. Locate hardware as indicated, or if not indicated, according to ANSI/SDI A250.8.
  2. Reinforce doors and frames to receive non-template, mortised and surface mounted door hardware.
  3. Comply with applicable requirements in ANSI/SDI A250.6 and ANSI/DHI A115 Series specifications for preparation of hollow metal work for hardware.
  4. Coordinate locations of conduit and wiring boxes for electrical connections with Division 26 Sections.

## **2.09 STEEL FINISHES**

- A. Prime Finishes: Doors and frames to be cleaned, and chemically treated to insure maximum finish paint adhesion. Surfaces of the door and frame exposed to view to receive a factory applied coat of rust inhibiting shop primer.
1. Shop Primer: Manufacturer's standard, fast-curing, lead and chromate free primer complying with ANSI/SDI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; and compatible with substrate and field-applied coatings.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. General Contractor to verify the accuracy of dimensions given to the steel door and frame manufacturer for existing openings or existing frames (strike height, hinge spacing, hinge back set, etc.).
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.02 PREPARATION**

- A. Remove welded in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces.
- B. Prior to installation, adjust and securely brace welded hollow metal frames for square, level, twist, and plumb condition.
- C. Tolerances shall comply with SDI-117 "Manufacturing Tolerances Standard Steel Doors and Frames."

- D. Drill and tap doors and frames to receive non-template, mortised, and surface-mounted door hardware.
- E. Verify tolerances against manufacturers installations instructions for tornado and hurricane storm shelter openings.

### **3.03 INSTALLATION**

- A. General: Install hollow metal work plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.
- B. Hollow Metal Frames: Install hollow metal frames of size and profile indicated. Comply with ANSI/SDI A250.11 and NFPA 80 at fire rated openings.
  - 1. Set frames accurately in position, plumbed, leveled, aligned, and braced securely until permanent anchors are set. After wall construction is complete and frames properly set and secured, remove temporary braces, leaving surfaces smooth and undamaged. Shim as necessary to comply with installation tolerances.
  - 2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with post-installed expansion anchors.
  - 3. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar.
  - 4. Grout Requirements: Do not grout head of frames unless reinforcing has been installed in head of frame. Do not grout vertical or horizontal closed mullion members.
- C. Hollow Metal Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary.
  - 1. Non-Fire-Rated Standard Steel Doors:
    - a. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
    - b. Between Edges of Pairs of Doors: 1/8 inch plus or minus 1/16 inch.
    - c. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
    - d. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.
  - 2. Fire-Rated Doors: Install doors with clearances according to NFPA 80.
- D. Field Glazing: Comply with installation requirements in Division 08 Section "Glazing" and with hollow metal manufacturer's written instructions.

### **3.04 ADJUSTING AND CLEANING**

- A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.
- B. Remove grout and other bonding material from hollow metal work immediately after installation.
- C. Prime-Coat and Painted Finish Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat, or painted finishes, and apply touchup of compatible air drying, rust-inhibitive primer, zinc rich primer (exterior and galvanized openings) or finish paint.

### **3.05 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.

**END OF SECTION 08 11 13**

## **SECTION 08 71 00 - DOOR HARDWARE**

### **PART 1 GENERAL**

#### **1.01 RELATED DOCUMENTS**

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

#### **1.02 SUMMARY**

- A. This Section includes commercial door hardware for the following:
  - 1. Swinging doors.
  - 2. 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 08 Section "Hollow Metal Doors and Frames".
  - 2. Division 08 Section "Flush Wood Doors".
  - 3. Division 08 Section "Aluminum-Framed Entrances and Storefronts".
- D. Codes and References: Comply with the version year 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: 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.

#### **1.03 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:
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.

**1.04 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.
- B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

**1.05 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 5 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 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.

#### **1.06 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".

#### **1.07 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.

#### **1.08 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**

### **2.01 MATERIALS**

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

### **2.02 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.

## **2.03 CONTINUOUS HINGES**

- A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
  - 1. Where specified, provide modular continuous geared hinges that ship in two or three pieces and form a single continuous hinge upon installation.
  - 2. Manufacturers:
    - a. Hager Companies (HA).
    - b. Pemko (PE).

## **2.04 POWER TRANSFER DEVICES**

- A. 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. Hager Companies (HA) - Quick Connect.
    - b. McKinney (MK) - QC-C Series.

## **2.05 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.
  - 4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
  - 5. Manufacturers:
    - a. Burns Manufacturing (BU).
    - b. Door Controls International (DC).
    - c. Rockwood (RO).

## **2.06 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. Sargent Manufacturing (SA).

- b. No Substitution.
- 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.
  - 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. 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.
- D. 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).
- E. Construction Keying: Provide construction master keyed cylinders.
- F. 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.

## **2.07 KEY CONTROL**

- A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.
  - 1. Manufacturers:
    - a. Lund Equipment (LU).
    - b. MMF Industries (MM).
    - c. Telkee (TK).

## **2.08 MORTISE LOCKS AND LATCHING DEVICES**

- A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.
  - 1. Manufacturers:
    - a. Corbin Russwin Hardware (RU) - ML2000 Series.
    - b. Sargent Manufacturing (SA) - 8200 Series.

## **2.09 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. Manufacturers:
    - a. Sargent Manufacturing (SA) - 10X Line.
    - b. No Substitution.LOCK AND LATCH STRIKES
- B. 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.
- C. 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.

## **2.10 ELECTRIC STRIKES**

- A. Standard Electric Strikes: Electric strikes conforming to ANSI/BHMA A156.31, Grade 1, for use on non-rated or fire rated openings. Strikes shall be of stainless steel construction tested to a minimum of 1500 pounds of static strength and 70 foot-pounds of dynamic strength with a minimum endurance of 1 million operating cycles. Provide strikes with 12 or 24 VDC capability, fail-secure unless otherwise specified. Where specified provide latchbolt and latchbolt strike monitoring indicating both the position of the latchbolt and locked condition of the strike.
  - 1. Manufacturers:
    - a. HES (HS) - 1500/1600 Series.
- B. Surface Mounted Rim Electric Strikes: Surface mounted rim exit device electric strikes conforming to ANSI/BHMA A156.31, Grade 1, and UL Listed for both Burglary Resistance and for use on fire rated door assemblies. Construction includes internally mounted solenoid with two heavy-duty, stainless steel locking mechanisms operating independently to provide tamper resistance. Strikes tested for a minimum of 500,000 operating cycles. Provide strikes with 12 or 24 VDC capability supplied standard as fail-secure unless otherwise specified. Option available for latchbolt and latchbolt strike monitoring indicating both the position of the latchbolt and locked condition of the strike. Strike requires no cutting to the jamb prior to installation.
  - 1. Manufacturers:
    - a. HES (HS) - 9400/9500/9600/9700/9800 Series.
- C. Provide electric strikes with in-line power controller and surge suppressor by the same manufacturer as the strike with the combined products having a five year warranty.

## **2.11 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.
  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. Manufacturers:
  2. Corbin Russwin Hardware (RU) - ED4000 / ED5000 Series.
  3. Sargent Manufacturing (SA) - 80 Series.

## **2.12 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 (Large Body Cast Iron): 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 body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.
1. Large body cast iron surface mounted door closers shall have a 30-year warranty.
  2. Manufacturers:
    - a. Corbin Russwin Hardware (RU) - DC8000 Series.
    - b. Norton Rixson (NO) - 9500 Series.
      - a) Sargent Manufacturing (SA) - 281 Series.

## **2.13 ARCHITECTURAL TRIM AND ACCESSORIES**

- A. Door Protective Trim:
1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
  2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
  3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
  4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:
    - a. Stainless Steel: 300 grade, 050-inch thick.
  5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
  6. Manufacturers:
    - a. Burns Manufacturing (BU).
    - b. Hager Companies (HA).
    - c. Hiawatha, Inc. (HI).

- d. Rockwood (RO).

#### **2.14 DOOR STOPS AND HOLDERS**

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. 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. Burns Manufacturing (BU).
    - b. Hager Companies (HA).
    - c. Hiawatha, Inc. (HI).
    - d. Rockwood (RO).
- C. 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 (RF).
    - b. Rockwood (RO).
    - c. Sargent Manufacturing (SA).

#### **2.15 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.
- 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. National Guard Products (NG).
2. Pemko (PE).
3. Reese Enterprises, Inc. (RE).

## **2.16 ELECTRONIC ACCESSORIES**

- A. Request to Exit Motion Sensor: Passive infrared request to exit (REX) motion sensor designed for detecting exiting through a door from the secure area to a non-secure area.
1. Provide devices with functions and features as follows:
    - a. Adjustable infrared beam and relock time.
    - b. UL listed.
    - c. 12VDC or 24VDC power.
    - d. Single pole, double throw (SPDT) switch.
  2. Manufacturers:
    - a. Alarm Controls (AK) - SREX Series.
    - b. Security Door Controls (SD) - MD-31D Series.
    - c. Securitron (SU) - XMS2 Series.
  3. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.
  4. Manufacturers:
    - a. Alarm Controls (AK) - CP1-1026 Series.
    - b. Sargent Manufacturing (SA) - 3280 Series.
    - c. Securitron (SU) - DPS Series.
- B. 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. Life Safety Power (LP).
    - b. Securitron (SU) - AQD Series.

## **2.17 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.

## **2.18 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**

### **3.01 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.

### **3.02 PREPARATION**

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

### **3.03 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. 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.
- C. 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.

- D. 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.
- E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- F. 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.

#### **3.04 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.

#### **3.05 ADJUSTING**

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

#### **3.06 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.

#### **3.07 DEMONSTRATION**

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

#### **3.08 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.

B. Manufacturer's Abbreviations:

1. MK - McKinney
2. PE - Pemko
3. RO - Rockwood
4. SA - SARGENT
5. YA - ASSA ABLOY ACCENTRA
6. SU - Securitron
7. HS - HES
8. RF - Rixson

**Hardware Sets**

**Set: 1.0**

Doors: E201

Description: Existing

1 Rim Exit Device, Passage      12 8815 ETL      US32D SA

Notes: Balance of hardware is existing and will remain.  
Hardware supplier to verify existing door and frame preps.

**Set: 2.0**

Doors: E202, E203, E204, E205, E206, E207, E208, E209, E224, E225, E226, E227, E228, E229

Description: Office

1 Classroom Security Lock      10XG38 LL GMK      US26D SA

Notes: Balance of hardware is existing and will remain.  
Hardware supplier to verify existing door and frame preps.

**Set: 3.0**

Doors: E214

Description: Hall

|                              |                      |       |      |
|------------------------------|----------------------|-------|------|
| 1 Storeroom/Closet Lock      | 10XG04 LL GMK        | US26D | SA   |
| 1 Electric Strike            | 1500C                | 630   | HS ⚡ |
| 1 SMART Pac Bridge Rectifier | 2005M3               |       | HS ⚡ |
| 1 ElectroLynx Harness        | QC-C2500P            |       | MK ⚡ |
| 1 Motion Sensor              | XMS2                 |       | SU ⚡ |
| 1 Position Switch            | DPS-M-BK or DPS-W-BK |       | SU ⚡ |

1 Power Supply [AQD1-1R x hardware requirements](#) SU



Notes: Card reader furnished by Owner.

ElectroLynx harness to be attached to the back to the electric strike and run to the power supply.

Balance of hardware is existing and will remain.

Hardware supplier to verify existing door and frame preps.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the electric strike will release, and you can pull or push the door open. When the door comes back closed the electric strike will relock. The motion sensor will be used as the REX or request to exit switch for the access control system. You can always turn the inside lever and exit the space.

**Set: 4.0**

Doors: E001, E005

Description: Electrical/Data

1 Key Pad Cyl Lock [AU NTB613-NR 3803-53LxLA](#) 626 YA

Notes: Balance of hardware is existing and will remain.

Hardware supplier to verify existing door and frame preps.

**Set: 5.0**

Doors: [101](#)

Description: Vestibule

|                              |                                                        |       |    |
|------------------------------|--------------------------------------------------------|-------|----|
| 3 Hinge, Full Mortise        | <a href="#">T4A4786 or T4A3786 NRP 4-1/2" x 4-1/2"</a> |       |    |
| US26D                        | MK                                                     |       |    |
| 1 Rim Exit Device, Storeroom | <a href="#">8804 ETL GMK</a>                           | US32D | SA |
| 1 SMART Pac Bridge Rectifier | <a href="#">2005M3</a>                                 |       | HS |
| 1 Electric Strike            | <a href="#">9600</a>                                   | 630   | HS |
| 1 Door Closer                | <a href="#">281 CPS</a>                                | EN    | SA |
| 1 Kick Plate                 | <a href="#">K1050 10" x 2" LDW CSK BEV</a>             | US32D | RO |
| 3 Silencer                   | <a href="#">608</a>                                    |       | RO |
| 1 ElectroLynx Harness        | <a href="#">QC-C2500P</a>                              |       | MK |
| 1 Motion Sensor              | <a href="#">XMS2</a>                                   |       | SU |
| 1 Position Switch            | <a href="#">DPS-M-BK or DPS-W-BK</a>                   |       | SU |
| 1 Power Supply               | <a href="#">AQD1-1R x hardware requirements</a>        |       | SU |



Notes: ElectroLynx harness to be attached to the back to the electric strike and run to the power supply.

Card reader furnished by Owner.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the electric strike will release, and you can pull or push the door open. When the door comes back closed the electric strike will relock.

The motion sensor will be used as the REX or request to exit switch for the access control system. You can always turn the inside lever and exit the space.

**Set: 6.0**

Doors: [102A](#), [102B](#), [S113](#)

Description: Reception

|                              |                                                 |       |    |   |
|------------------------------|-------------------------------------------------|-------|----|---|
| 3 Hinge, Full Mortise        | <a href="#">TA2714 4-1/2" x 4-1/2"</a>          | US26D | MK |   |
| 1 Storeroom/Closet Lock      | <a href="#">10XG04 LL GMK</a>                   | US26D | SA |   |
| 1 Electric Strike            | <a href="#">1500C</a>                           | 630   | HS | ⚡ |
| 1 SMART Pac Bridge Rectifier | <a href="#">2005M3</a>                          |       | HS | ⚡ |
| 1 Door Closer                | <a href="#">281 O</a>                           | EN    | SA |   |
| 1 Kick Plate                 | <a href="#">K1050 10" x 2" LDW CSK BEV</a>      | US32D | RO |   |
| 1 Wall Stop                  | <a href="#">409</a>                             | US32D | RO |   |
| 3 Silencer                   | <a href="#">608</a>                             |       | RO |   |
| 1 ElectroLynx Harness        | <a href="#">QC-C2500P</a>                       |       | MK | ⚡ |
| 1 Motion Sensor              | <a href="#">XMS2</a>                            |       | SU | ⚡ |
| 1 Position Switch            | <a href="#">DPS-M-BK or DPS-W-BK</a>            |       | SU | ⚡ |
| 1 Power Supply               | <a href="#">AQD1-1R x hardware requirements</a> |       | SU |   |
| ⚡                            |                                                 |       |    |   |

Notes: ElectroLynx harness to be attached to the back to the electric strike and run to the power supply.

Card reader furnished by Owner.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the electric strike will release, and you can pull or push the door open. When the door comes back closed the electric strike will relock. The motion sensor will be used as the REX or request to exit switch for the access control system. You can always turn the inside lever and exit the space.

**Set: 7.0**

Doors: [103A](#)

Description: Hall

|                              |                                                 |       |    |   |
|------------------------------|-------------------------------------------------|-------|----|---|
| 3 Hinge, Full Mortise        | <a href="#">TA2714 NRP 4-1/2" x 4-1/2"</a>      | US26D | MK |   |
| 1 Storeroom/Closet Lock      | <a href="#">10XG04 LL GMK</a>                   | US26D | SA |   |
| 1 Electric Strike            | <a href="#">1500C</a>                           | 630   | HS | ⚡ |
| 1 SMART Pac Bridge Rectifier | <a href="#">2005M3</a>                          |       | HS | ⚡ |
| 1 Door Closer                | <a href="#">281 P10</a>                         | EN    | SA |   |
| 1 Kick Plate                 | <a href="#">K1050 10" x 2" LDW CSK BEV</a>      | US32D | RO |   |
| 1 Wall Stop                  | <a href="#">409</a>                             | US32D | RO |   |
| 3 Silencer                   | <a href="#">608</a>                             |       | RO |   |
| 1 ElectroLynx Harness        | <a href="#">QC-C2500P</a>                       |       | MK | ⚡ |
| 1 Motion Sensor              | <a href="#">XMS2</a>                            |       | SU | ⚡ |
| 1 Position Switch            | <a href="#">DPS-M-BK or DPS-W-BK</a>            |       | SU | ⚡ |
| 1 Power Supply               | <a href="#">AQD1-1R x hardware requirements</a> |       | SU |   |
| ⚡                            |                                                 |       |    |   |



Notes: ElectroLynx harness to be attached to the back to the electric strike and run to the power supply.

Card reader furnished by Owner.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the electric strike will release, and you can pull or push the door open. When the door comes back closed the electric strike will relock. The motion sensor will be used as the REX or request to exit switch for the access control system. You can always turn the inside lever and exit the space.

**Set: 8.0**

Doors: 103B

Description: Hall

|                                |                                 |       |      |
|--------------------------------|---------------------------------|-------|------|
| 3 Hinge, Full Mortise          | TA2714 NRP 4-1/2" x 4-1/2"      | US26D | MK   |
| 1 Passage Latch                | 10XU15 LL                       | US26D | SA   |
| 1 Delayed Egress Magnetic Lock | DEM680E                         | 630   | SU ⚡ |
| 1 Mortise Cylinder             | 41 GMK                          | US32D | SA   |
| 1 Door Closer                  | 281 CPS                         | EN    | SA   |
| 1 Kick Plate                   | K1050 10" x 2" LDW CSK BEV      | US32D | RO   |
| 3 Silencer                     | 608                             |       | RO   |
| 1 Power Supply                 | AQD1-1R x hardware requirements |       | SU   |

Notes: Card reader on both sides of this door will be furnished by the owner.

Key switch for delayed egress magnetic lock will be mounted on the wall close to the door.

Cylinder will be used for the key switch that goes with the delayed egress magnetic lock.

**Set: 9.0**

Doors: 108, 210, 211, 215, 220, 230, 231, 232, 233, S104, S105, S106, S107, S110, S212, S218, S219

Description: Meeting, Office, Conference

|                           |                        |       |    |
|---------------------------|------------------------|-------|----|
| 3 Hinge, Full Mortise     | TA2714 4-1/2" x 4-1/2" | US26D | MK |
| 1 Classroom Security Lock | 10XG38 LL GMK          | US26D | SA |
| 1 Wall Stop               | 409                    | US32D | RO |
| 3 Silencer                | 608                    |       | RO |

**Set: 10.0**

Doors: 109, 116

Description: Storage

|                         |                        |       |    |
|-------------------------|------------------------|-------|----|
| 3 Hinge, Full Mortise   | TA2714 4-1/2" x 4-1/2" | US26D | MK |
| 1 Storeroom/Closet Lock | 10XG04 LL GMK          | US26D | SA |
| 1 Wall Stop             | 409                    | US32D | RO |

3 Silencer 608 RO

**Set: 11.0**

Doors: 111, 112, 114, 115

Description: Toilet

|                             |                            |       |    |
|-----------------------------|----------------------------|-------|----|
| 3 Hinge, Full Mortise       | TA2714 4-1/2" x 4-1/2"     | US26D | MK |
| 1 Privacy Lock w/ Indicator | V21 EMB 8265 LNL           | US26D | SA |
| 1 Door Closer               | 281 O                      | EN    | SA |
| 1 Kick Plate                | K1050 10" x 2" LDW CSK BEV | US32D | RO |
| 1 Wall Stop                 | 409                        | US32D | RO |
| 1 Gasketing                 | S773BL (Head & Jambs)      |       | PE |

**Set: 12.0**

Doors: 117

Description: Storage

|                         |                            |       |    |
|-------------------------|----------------------------|-------|----|
| 6 Hinge, Full Mortise   | TA2714 NRP 4-1/2" x 4-1/2" | US26D | MK |
| 2 Flush Bolt            | 555-12                     | US26D | RO |
| 1 Dust Proof Strike     | 570                        | US26D | RO |
| 1 Storeroom/Closet Lock | 10XG04 LL GMK              | US26D | SA |
| 2 Surf Overhead Stop    | 9 Series                   | 652   | RF |
| 2 Brush Astragal        | 18041CNB x Door Height     |       | PE |
| 2 Silencer              | 608                        |       | RO |

**Set: 13.0**

Doors: 119A

Description: Office

|                              |                                 |       |      |
|------------------------------|---------------------------------|-------|------|
| 1 Continuous Hinge           | CFMSLF-HD1 or CFMSLI-HD1        |       | PE   |
| 1 Storeroom/Closet Lock      | 10XG04 LL GMK                   | US26D | SA   |
| 1 Electric Strike            | 1500C                           | 630   | HS ⚡ |
| 1 SMART Pac Bridge Rectifier | 2005M3                          |       | HS ⚡ |
| 1 Door Closer                | 281 O                           | EN    | SA   |
| 1 Wall Stop                  | 409                             | US32D | RO   |
| 1 ElectroLynx Harness        | QC-C2500P                       |       | MK ⚡ |
| 1 Motion Sensor              | XMS2                            |       | SU ⚡ |
| 1 Position Switch            | DPS-M-BK or DPS-W-BK            |       | SU ⚡ |
| 1 Power Supply               | AQD1-1R x hardware requirements |       | SU   |

Notes: ElectroLynx harness to be attached to the back to the electric strike and run to the power supply.

Card reader furnished by Owner.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the electric strike will release, and you can pull or push the door open. When the door comes back closed the electric strike will relock.

The motion sensor will be used as the REX or request to exit switch for the access control system. You can always turn the inside lever and exit the space.

**Set: 14.0**

Doors: 119B

Description: Office

|                              |                                 |       |    |   |
|------------------------------|---------------------------------|-------|----|---|
| 3 Hinge, Full Mortise        | TA2714 NRP 4-1/2" x 4-1/2"      | US26D | MK |   |
| 1 Storeroom/Closet Lock      | 10XG04 LL GMK                   | US26D | SA |   |
| 1 Electric Strike            | 1500C                           | 630   | HS | ⚡ |
| 1 SMART Pac Bridge Rectifier | 2005M3                          |       | HS | ⚡ |
| 1 Door Closer                | 281 CPS                         | EN    | SA |   |
| 1 Kick Plate                 | K1050 10" x 2" LDW CSK BEV      | US32D | RO |   |
| 3 Silencer                   | 608                             |       | RO |   |
| 1 ElectroLynx Harness        | QC-C2500P                       |       | MK | ⚡ |
| 1 Motion Sensor              | XMS2                            |       | SU | ⚡ |
| 1 Position Switch            | DPS-M-BK or DPS-W-BK            |       | SU | ⚡ |
| 1 Power Supply               | AQD1-1R x hardware requirements |       | SU |   |

Notes: ElectroLynx harness to be attached to the back to the electric strike and run to the power supply.

Card reader furnished by Owner.

Operation: Door is normally closed and locked. When a valid credential is presented to the wall mounted card reader the electric strike will release, and you can pull or push the door open. When the door comes back closed the electric strike will relock. The motion sensor will be used as the REX or request to exit switch for the access control system. You can always turn the inside lever and exit the space.

**Set: 15.0**

Doors: E118, E125, E126, E216, E217, E222, E223

Description: Existing

Notes: All hardware is existing and will remain.

**END OF SECTION 08 71 00**

## **SECTION 09 30 00 - TILING**

### **PART 1 GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Tile for floor applications.
- B. Ceramic accessories.
- C. Non-ceramic trim.
- D. Crack Isolation Membrane.
- E. Metal Edge Strips.

#### **1.02 RELATED REQUIREMENTS**

- A. Section 07 92 00 - Joint Sealants: Sealing joints between tile work and adjacent construction and fixtures.
- B. Section 07 95 13 - Expansion Joint Cover Assemblies: Expansion joint components.
- C. Section 09 21 16 - Gypsum Board Assemblies: Tile backer board.

#### **1.03 REFERENCE STANDARDS**

- A. AIA A305 - Contractor's Qualification Statement; 1986.
- B. ANSI A108/A118/A136.1 - Specifications for the Installation of Ceramic Tile; 2020.
  - 1. ANSI A108.1b - American National Standard Specifications for Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex-Portland Cement Mortar; 1999 (Reaffirmed 2010).
  - 2. ANSI A108.5 - American National Standard Specifications for Installation of Ceramic Tile with Dry-Set Portland Cement Mortar or Latex-Portland Cement Mortar; 1999 (Reaffirmed 2010).
  - 3. ANSI A108.10 - American National Standard Specifications for Installation of Grout in Tilework; 1999 (Reaffirmed 2010).
  - 4. ANSI A108.13 - American National Standard for Installation of Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone; 2005 (Reaffirmed 2021).
  - 5. ANSI A118.3 - American National Standard Specifications for Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy and Water Cleanable Tile-Setting Epoxy Adhesive; 2021.
  - 6. ANSI A118.4 - American National Standard Specifications for Modified Dry-Set Cement Mortar; 2019.
  - 7. ANSI A118.7 - American National Standard Specifications for High Performance Cement Grouts for Tile Installation; 2019.
  - 8. ANSI A118.10 - American National Standard Specifications for Load Bearing, Bonded, Waterproof Membranes For Thin-Set Ceramic Tile And Dimension Stone Installation; 2014 (Reaffirmed 2019).
  - 9. ANSI A118.12 - American National Standard Specifications for Crack Isolation Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation; 2014 (Reaffirmed 2019).
  - 10. ANSI A137.1 - American National Standard Specifications for Ceramic Tile; 2013.1.
  - 11. ANSI A137.2 - American National Standard Specifications for Glass Tile; 2019.
  - 12. ASTM C373 - Standard Test Methods for Determination of Water Absorption and Associated Properties by Vacuum Method for Pressed Ceramic Tiles and Glass Tiles

and Boil Method for Extruded Ceramic Tiles and Non-tile Fired Ceramic Whiteware Products; 2018.

C. TCNA (HB) - Handbook for Ceramic, Glass, and Stone Tile Installation; 2021.

#### **1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturers' data sheets on tile, mortar, grout, and accessories. Include instructions for using grouts and adhesives.
- C. Shop Drawings: Indicate perimeter conditions, junctions with dissimilar materials, control and expansion joints, thresholds, ceramic accessories, and setting details.
- D. Samples for Initial Selection: For each type of tile and grout indicated. Include Samples of accessories involving color selection.
- E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
  - 1. See Section 01 60 00 - Product Requirements, for additional provisions.
  - 2. Extra Tile: 5 square feet (0.5 square meters) of each size, color, and surface finish combination.

#### **1.05 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing the types of products specified in this section, with minimum five years of documented experience.
- B. Installers: Each Installer must comply with all requirements of the Specifications and Drawings. Approved installers for this project are as follows:
  - 1. CAP Carpet, Inc.
  - 2. Carpet Value
  - 3. Country Carpet, Inc.
  - 4. Five Star Tile, Company
  - 5. Fortney Tile & Flooring Company, Inc.
  - 6. Fox Ceramic Tile, Inc.
  - 7. Interior Surface Enterprises, LLC
  - 8. Kansas Carpet & Tile Inc.
  - 9. Manhattan Carpet & Interiors, Inc.
  - 10. Star Lumber & Supply Co., Inc.
  - Stuart & Associates Commercial Flooring
  - 11. Vitztum Commercial Flooring, Inc.
  - 12. Schaefer Architecture may approve additional Installers for this project based on proximity to the project site, work ethic, relevant project experience and company information. Installers seeking approval for this project shall submit AIA A305, Contractor's Qualification Statement to Schaefer Architecture. Requests must be received ten days prior to bid date.

#### **1.06 MOCK-UP**

- A. See Section 01 40 00 - Quality Requirements, for general requirements for mock-up.
- B. Construct tile mock-up, incorporating all components specified for the location.
  - 1. Approved mock-up may remain as part of the Work.

#### **1.07 DELIVERY, STORAGE, AND HANDLING**

- A. Protect adhesives from freezing or overheating in accordance with manufacturer's instructions.

### **1.08 FIELD CONDITIONS**

- A. Do not install solvent-based products in an unventilated environment.
- B. Maintain ambient and substrate temperature of 50 degrees F (10 degrees C) during installation of mortar materials.

## **PART 2 PRODUCTS**

### **2.01 TILE**

- A. Porcelain Tile: ANSI 137.1, and as follows: Scheduled "TF-1"
  - 1. Product: Portfolio by Daltile.
  - 2. Color: PF08 Chocolate.
  - 3. Surface Finish: Unpolished.
  - 4. Size: 6 inch by 24 inch.
  - 5. Installation: 1/3 offset, slope to drain if needed
  - 6. Location: Restrooms
  - 7. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Porcelain Tile: ANSI 137.1, and as follows: Scheduled "TW-1"
  - 1. Product: Portfolio by Daltile
  - 2. Color: PF07 Cream
  - 3. Surface Finish: Unpolished
  - 4. Size: 12 inch by 24 inch
  - 5. Installation: Horizontal stacked.
  - 6. Location: Restrooms
  - 7. Substitutions: See Section 01 60 00 - Product Requirements.

### **2.02 TRIM AND ACCESSORIES**

- A. Non-Ceramic Trim: Satin natural anodized extruded aluminum, style and dimensions to suit application, for setting using tile mortar or adhesive.
  - 1. Applications:
    - a. Open edges of floor tile.
    - b. Wall corners, outside and inside.
    - c. Transition between floor finishes of different heights.
    - d. Thresholds at door openings.
  - 2. Manufacturers:
    - a. Schluter-Systems: [www.schluter.com/#sle](http://www.schluter.com/#sle).
    - b. Genesis APS International: [www.genesis-aps.com/#sle](http://www.genesis-aps.com/#sle).
    - c. Substitutions: See Section 01 60 00 - Product Requirements.

### **2.03 SETTING MATERIALS**

- A. Manufacturers:
  - 1. Bostik Inc: [www.bostik-us.com](http://www.bostik-us.com).
  - 2. Custom Building Products: [www.custombuildingproducts.com](http://www.custombuildingproducts.com).
  - 3. LATICRETE International, Inc: [www.laticrete.com](http://www.laticrete.com).
  - 4. ProSpec, an Oldcastle brand: [www.prospec.com](http://www.prospec.com).
  - 5. Mapei Corporation: [www.mapei.com](http://www.mapei.com).
  - 6. C-Cure: [www.c-cure.com](http://www.c-cure.com).
  - 7. TEC Specialty Products, Inc.: [www.tecspecialty.com](http://www.tecspecialty.com).

8. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Latex-Portland Cement Mortar Bond Coat (Thin Set): ANSI A118.4.
  1. Applications: Use this type of bond coat where indicated and where no other type of bond coat is indicated.
  2. Provide prepackaged, dry-mortar mix to which only water must be added at Project site.
- C. Polymer Modified Mortar for Large Format Tile (Medium Bed Mortar): ANSI A118.4.

Provide prepackaged, dry-mortar mix to which only water must be added at Project site. Large Format Tile has one side of the tile greater than 15 inch (381 mm).

  1. Application(s): Use this type of bond coat where large format tile is installed, regardless if other sized tile is intermingled.
    - a. Large Format Tile has one side of the tile greater than 15 inch (381 mm)
  2. Provide prepackaged, dry-mortar mix to which only water must be added at Project site.
  3. Products:
    - a. TEC; Ultimate Large Tile Mortar: [www.tecspecialty.com](http://www.tecspecialty.com).
    - b. Mapei; Ultraflex LFT: [www.mapei.com](http://www.mapei.com).
  - c. Substitutions: See Section 01 60 00 - Product Requirements.

## **2.04 GROUTS**

- A. Manufacturers:
  1. Bostik Inc: [www.bostik-us.com](http://www.bostik-us.com).
  2. Custom Building Products: [www.custombuildingproducts.com](http://www.custombuildingproducts.com).
  3. LATICRETE International, Inc: [www.laticrete.com](http://www.laticrete.com).
  4. ProSpec, an Oldcastle brand: [www.prospec.com](http://www.prospec.com).
  5. Mapei Corporation: [www.mapei.com](http://www.mapei.com).
  6. C-Cure: [www.c-cure.com](http://www.c-cure.com).
  7. TEC Specialty Products, Inc.: [www.tecspecialty.com](http://www.tecspecialty.com).
  8. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Polymer Modified Grout: ANSI A118.7 polymer modified cement grout.
  1. Applications: Use this type of grout where indicated and where no other type of grout is indicated.
  2. Non-shrinking - non-expanding, non-toxic, dense, bacterial growth inhibitive, factory prepared, stain resistant, non-efflorescing, ready for mixing with water.
  3. Use sanded grout for joints 1/8 inch wide and larger; use sanded grout for joints less than 1/8 inch wide.
  4. Color(s): As selected by Schaefer Architecture from manufacturer's full line.

## **2.05 MAINTENANCE MATERIALS**

- A. Grout Sealer: Liquid-applied, moisture and stain protection for existing or new Portland cement grout.
  1. Composition: Water-based colorless silicone.
  2. Polymerized silicone formulation designed for sealing grout joints and that does not change color or appearance of grout.
  3. Grout Sealer: Polymerized silicone formulation designed for sealing grout joints and that does not change color or appearance of grout. Grout sealer is not required for

- high performance grouts that by the manufacturer's literature, do not 'require' sealer.
4. Products:
    - a. Micacle Sealants Company; 511 Impregnator: [www.miraclesealants.com](http://www.miraclesealants.com).
    - b. Substitutions: See Section 01 60 00 - Product Requirements.
  - B. Grout Release: Temporary, water-soluble pre-grout coating.
  - C. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.

## **2.06 ACCESSORY MATERIALS**

- A. Concrete Floor Slab Crack Isolation Membrane: Material complying with ANSI A118.12; not intended as waterproofing.
  1. Type: Sheet Membrane.
  2. Include reinforcement and accessories recommended by manufacturer. Width of crack isolation membrane shall be per manufacturers requirements for the size of the tile installed. Trowel applied crack isolation membrane may be applied in special areas if approved by Schaefer Architecture.
    - a. Joints to Receive Membrane: Saw cuts (control joints), construction joints (cold joints) and shrinkage cracks. Per TCNA (HB) F-125 Partial.
  3. Products:
    - a. LATICRETE International, Inc; LATICRETE Blue 92 Anti-Fracture Membrane: [www.laticrete.com/#sle](http://www.laticrete.com/#sle).
    - b. Noble Company; NobleSeal CIS: [www.noblecompany.com..](http://www.noblecompany.com..)
    - c. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Expansion Joints:
  1. Expansion Joints: Per TCNA (HB) EJ-171 (no membrane)
  2. Expansion joints shall be clear and free of all mortar and grout.
  3. Expansion joint for soft joints may be caulked with a matching caulking or a pre-manufactured joint may be used. Pre-manufactured joint type and color shall be approved by Schaefer Architecture.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that sub-floor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive tile.
  1. Verify substrate floor is properly graded to drains.
- B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive tile.
- C. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of setting materials to sub-floor surfaces.
- D. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Schaefer Architecture.
- E. Verify that required floor-mounted utilities are in correct location.

### **3.02 PREPARATION**

- A. Protect surrounding work from damage.



- B. Vacuum clean surfaces and damp clean.
- C. Seal substrate surface cracks with filler. Level existing substrate surfaces to acceptable flatness tolerances.
  - 1. Fill cracks, holes, and depressions in concrete substrates for tile floors with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.
- D. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.
- E. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, blend tiles at Project site before installing.

### **3.03 INSTALLATION - GENERAL**

- A. Install tile, thresholds, and stair treads and grout in accordance with applicable requirements of ANSI A108.1a through ANSI A108.13, manufacturer's instructions, and TCNA (HB) recommendations.
- B. Lay tile to pattern indicated. Do not interrupt tile pattern through openings.
- C. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor, base, and wall joints.
  - 1. Cuts shall be made with a saw or drill without marring visible surfaces.
  - 2. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
- D. Use crack isolation membrane at all control joints.
  - 1. Install crack isolation membrane to comply with ANSI A108.17 and manufacturer's written instructions to produce membrane of uniform thickness and bonded securely to substrate.
  - 2. Do not install tile or setting materials over crack isolation membrane until membrane has cured.
  - 3. Floor stone as required such that membrane thickness is not broadcasted thru finished floor.
- E. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make grout joints without voids, cracks, excess mortar or excess grout, or too little grout.
- F. Joints: 1/16 inch (1.58 mm) joints for ceramic tile. 1/4 inch (6.35 mm) joints for quarry tile. 3/16 inch (4.76 mm) joints for porcelain tile.
- G. Form wall internal angles square and external angles bullnosed.
  - 1. If base matches wall tile, form base internal corners square. If base matches floor tile, form base internal angles coved (square if coved incorners are not available) and external angles bullnosed. Refer to required trim units.
- H. Install ceramic accessories rigidly in prepared openings.
- I. Install non-ceramic trim in accordance with manufacturer's instructions.
- J. Install thresholds where indicated.
- K. Sound tile after setting. Replace hollow sounding units.
- L. Keep control and expansion joints free of mortar, grout, and adhesive.

- M. Prior to grouting, allow installation to completely cure; minimum of 48 hours.
- N. Grout tile joints unless otherwise indicated.
- O. At changes in plane and tile-to-tile control joints, use tile sealant instead of grout, with either bond breaker tape or backer rod as appropriate to prevent three-sided bonding.
- P. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.
  - 1. Provide sealant joints between hollow metal door/window frames and tile.
  - 2. Provide sealant joints between architectural wood casework and tile.
- Q. Replace marred, broken or chipped units.

### **3.04 INSTALLATION - FLOORS - THIN-SET METHODS**

- A. Over exterior concrete substrates, install in accordance with TCNA (HB) Method F102, with standard grout.
- B. Over interior concrete substrates, install in accordance with TCNA (HB) Method F113, dry-set or latex-Portland cement bond coat, with standard grout, unless otherwise indicated.
  - 1. Where waterproofing membrane is indicated, install in accordance with TCNA (HB) Method F122, with latex-Portland cement grout.
- C. Over wood substrate with backer board underlayment, install in accordance with TCNA (HB) Method F146, for coated glass mat backer boards, with standard grout.

### **3.05 INSTALLATION - FLOORS - LARGE FORMAT TILE**

- A. Over interior and exterior concrete substrates, install in accordance with manufacturers instructions, polymer modified mortar designed for large format tile installation (medium bed mortar), with standard grout.

### **3.06 INSTALLATION - WALL TILE**

- A. Over cementitious backer units on studs, install in accordance with TCNA (HB) Method W244.
- B. Over coated glass mat backer board on studs, install in accordance with TCNA (HB) Method W245.
- C. Over interior concrete and masonry install in accordance with TCNA (HB) Method W202, thin-set with dry-set or latex-Portland cement bond coat.

### **3.07 CONTROL AND EXPANSION JOINTS**

- A. Joint Width: Minimum joint width 3/8 inch (9.5 mm) with quarry tile and 3/16 inch (4.7 mm) with porcelain and ceramic tile . Increase joint width 1/16 inch (1.58 mm) for each 4 feet (1.2 m) of spacing greater than 12 feet (3.6 m) between joints.
- B. Distance Between Joints:
  - 1. In accordance with TCNA (HB) EJ171 recommendations for frequency.
  - 2. Interior: Control or expansion joints not to exceed 24 feet (7.3 m) o.c. each way. Areas 12 feet (3.6 m) or less require no joint at edges and obstructions.
  - 3. Exterior: Control or expansion joints not to exceed 12 feet (3.6 m) o.c. each way.
  - 4. Interior tile work exposed to direct sunlight or moisture: Control or expansion joints not to exceed 12 feet (3.6 m) o.c. each way.
  - 5. Interior slab above grade: Control or expansion joints not to exceed 16 feet (4.8 m) o.c. each way and 12 feet (3.6 m) o.c. each way for large format tile.
- C. Provide joint at perimeter of tile areas, in recessed beds, and at other restraints.

- D. Joint layout in tile field above joints in substrate and subject to Schaefer Architecture approval.
- E. Construction joints full depth of tile and setting bed.
- F. Fill joint with compressible filler as back-up for sealant.
- G. Seal joints with sealant specified in Section 07 92 00 - Joint Sealants after grout is cured, control joints thoroughly cleaned and BEFORE tile sealer is applied. Color matching grout joint color or as selected by Schaefer Architecture.

### **3.08 GROUTING**

- A. Do not mix grout material with any other material except clean potable water. Mix thoroughly.
- B. When tile is locked in place work mixed joint grout (filler) into joints until joints are full. Rub in and apply second coating as recommended by manufacturer.
- C. Clean surplus from surfaces. Use manufacturer recommended if absolutely necessary. If used apply cleaner only on wetted surfaces and thoroughly rinse off all cleaner when tile work is clean.

### **3.09 CLEANING**

- A. Clean tile and grout surfaces.

### **3.10 SEALING**

- A. Grout to cure a minimum of 48 hours prior to sealing. Surfaces must be clean, dry and free of previously applied sealers or coatings.
- B. Apply sealer to all grout and impervious mosaic tile surfaces in accordance with manufacturer's written recommendations.

### **3.11 PROTECTION**

- A. Do not permit traffic over finished floor surface for 4 days after installation.

### **END OF SECTION**

**SECTION 09 67 00 - FLUID-APPLIED FLOORING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Fluid-applied flooring.

**1.02 REFERENCE STANDARDS**

- A. ASTM C579 - Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes; 2018.
- B. ASTM C580 - Standard Test Method for Flexural Strength and Modulus of Elasticity of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes; 2018.
- C. ASTM D2240 - Standard Test Method for Rubber Property--Durometer Hardness; 2015 (Reapproved 2021).
- D. ASTM D2940/D2940M - Standard Specification for Graded Aggregate Material for Bases or Subbases for Highways or Airports; 2020.
- E. ASTM D4060 - Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser; 2019.
- F. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes; 2019a.
- G. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2021.
- H. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride; 2016a.

**1.03 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns and colors available.
- C. Samples for Initial Selection: For each type of exposed finish required.
- D. Samples for Verification: After color and texture is selected, for each resinous flooring system required, 8 x 8 inch (203 x 203 mm) square, applied to a rigid backing by Installer for this Project.
- E. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention, and application rate for each coat.

**1.04 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years experience.
- B. Installers: Each Installer must comply with all requirements of the Specifications and Drawings. Approved installers for this project are as follows:
  - 1. Desco Coatings, Inc.
  - 2. Epoxy Coating Specialists, Inc.
  - 3. Stonhard, Inc.

**1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Store resin materials in a dry, secure area.

- B. Store materials for three days prior to installation in area of installation to achieve temperature stability.

### **1.06 FIELD CONDITIONS**

- A. Maintain minimum temperature in storage area of 55 degrees F (13 degrees C).
- B. Store materials in area of installation for minimum period of 24 hours prior to installation.
- C. Maintain ambient temperature required by manufacturer 48 hours prior to, during, and 48 hours after installation of materials.
- D. Close spaces to traffic during resinous flooring application and for not less than 24 hours after application unless manufacturer recommends a longer period.

### **1.07 WARRANTY**

- A. Provide a one year warranty signed by the manufacturer and installer warranting that the resinous floor system will be free from defects including debonding, regionalized discoloration and excessive wear. Warranty shall include removal and replacement if defective.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Fluid-Applied Flooring:
  - 1. Rio Flooring: [www.riofloor.com](http://www.riofloor.com).
  - 2. Desco Coatings, Inc.: [www.descofloors.com](http://www.descofloors.com).
  - 3. Stonhard Inc.: [www.stonhard.com](http://www.stonhard.com).
  - 4. Substitutions: See Section 01 60 00 - Product Requirements.

### **2.02 Fluid-Applied Flooring SYSTEMS**

- A. Fluid-Applied Flooring FAF-1: waterbased epoxy; moisture tolerant
  - 1. System Thickness: 4.0 mils (100 mm), nominal, dry film thickness (DFT).
  - 2. Texture: Slip resistant.
  - 3. Sheen: Satin.
  - 4. Color: As selected by Schaefer Architecture.
  - 5. Products:
    - a. Sherwin-Williams Company; Armorseal 8100: [www.protective.sherwin-williams.com/#sle](http://www.protective.sherwin-williams.com/#sle).
    - b. Substitutions: See Section 01 60 00 - Product Requirements.

### **2.03 ACCESSORIES**

- A. Cant Strips: Molded material compatible with flooring.
- B. Subfloor Filler: Type recommended by fluid-applied flooring manufacturer.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that subfloor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive flooring.
- B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive flooring.

- C. Verify that subfloor surfaces are dust-free and free of substances that could impair bonding of materials to subfloor surfaces.
- D. Verify that concrete sub-floor surfaces are ready for flooring installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within the following limits:
  - 1. Moisture emission rate: Not greater than 3 lb per 1000 sq ft per 24 hours (7.1 kg per 100 sq m per 24 hours), tested according to ASTM F1869.
  - 2. Alkalinity: pH range of 5 to 9, tested according to ASTM F710.
  - 3. Perform relative humidity test using in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement or as recommended by manufacturer.
- E. Verify that required floor-mounted utilities are in correct location.

### **3.02 PREPARATION**

- A. Effectively remove concrete laitance on accessible floor surfaces by mechanical shot blast. Acid etching is not acceptable.
- B. Areas where flooring is existing must be cleaned to remove all floor material, grease or any residue that might retard interfacial adhesion between substrate and surfacing.
- C. Remove subfloor ridges and bumps. Fill low spots, cracks, joints, holes, and other defects with subfloor filler.
- D. Apply, trowel, and float filler to achieve smooth, flat, hard surface. Grind irregularities above the surface level. Prohibit traffic until filler is cured.
- E. Control Joints: Fill control joints with an approved elastomeric sealant or a semi-rigid epoxy joint filler or a two component epoxy and filler.
- F. Expansion Joints: Terminate flooring at each side of joint. Apply sealant after flooring is complete.
- G. Vacuum clean substrate.
- H. Apply primer to surfaces required by flooring manufacturer.

### **3.03 INSTALLATION - FLOORING**

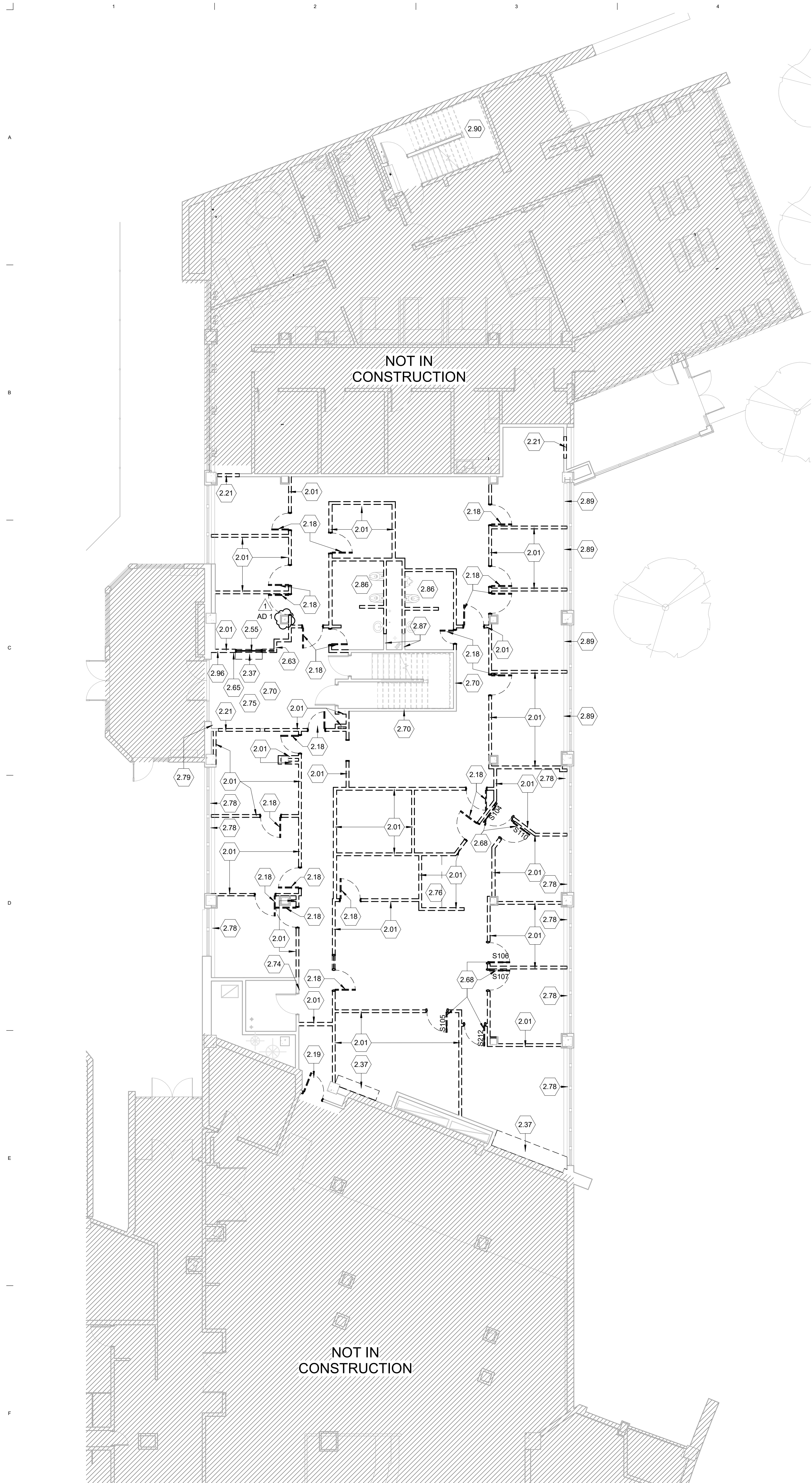
- A. Apply in accordance with manufacturer's instructions.
- B. Apply each coat to minimum thickness required by manufacturer.
- C. Finish to smooth level surface.

### **3.04 PROTECTION**

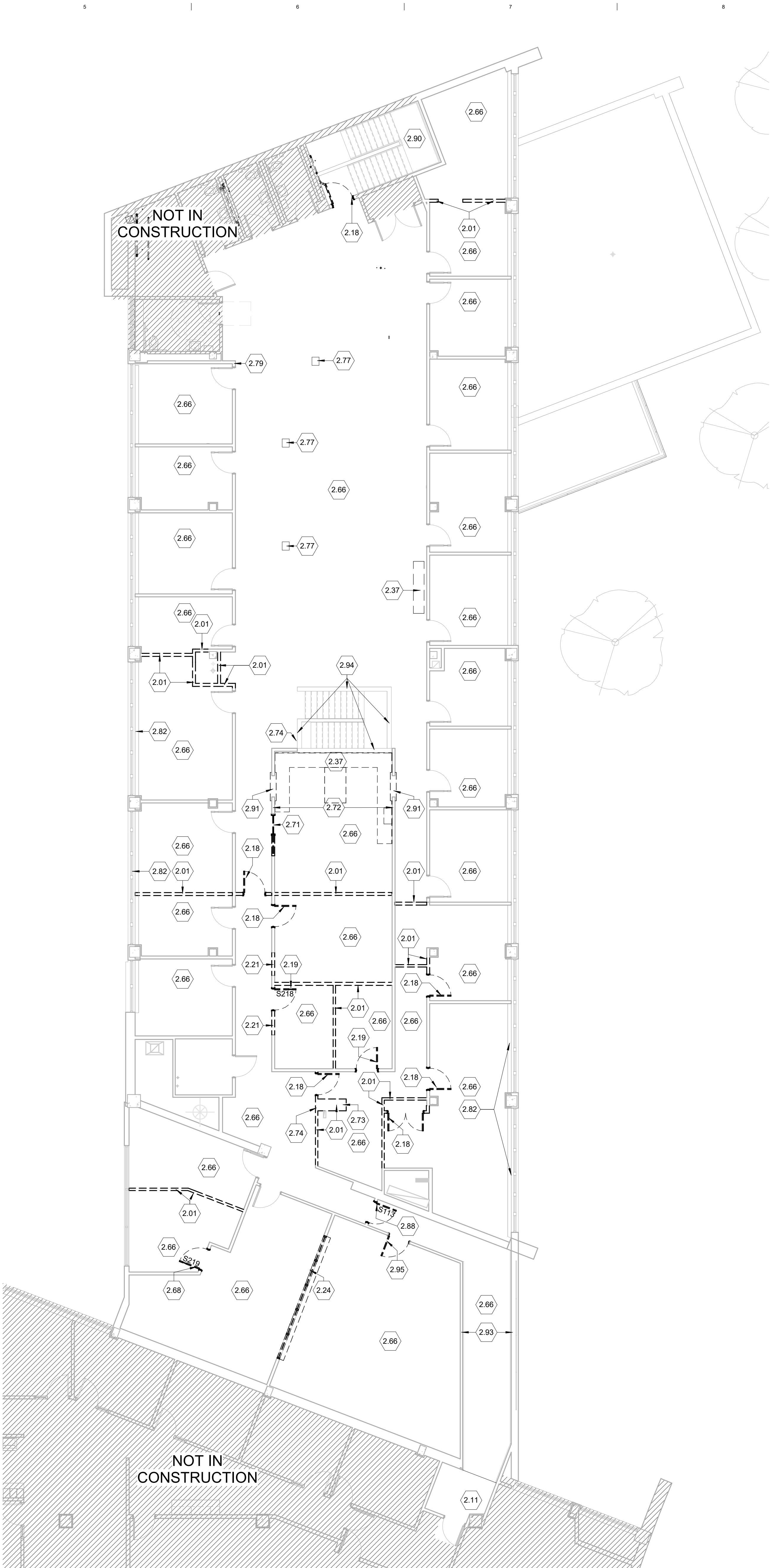
- A. Prohibit traffic on floor finish for 48 hours after installation.
- B. Barricade area to protect flooring until fully cured.

### **END OF SECTION**





1 LEVEL 1 - DEMO PLAN  
1/8" = 1'-0"



2 LEVEL 2 - DEMO PLAN  
1/8" = 1'-0"

SHEET SCALE



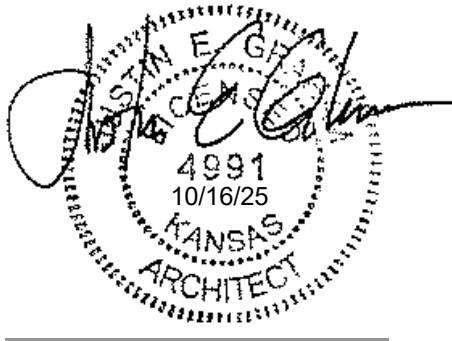
- NOTE:
- DO NOT SCALE DRAWINGS
  - CONTRACTOR TO FOLLOW WRITTEN DIMENSIONS ONLY
  - NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND AMONG THE DOCUMENTS & SITE CONDITIONS

GENERAL NOTES

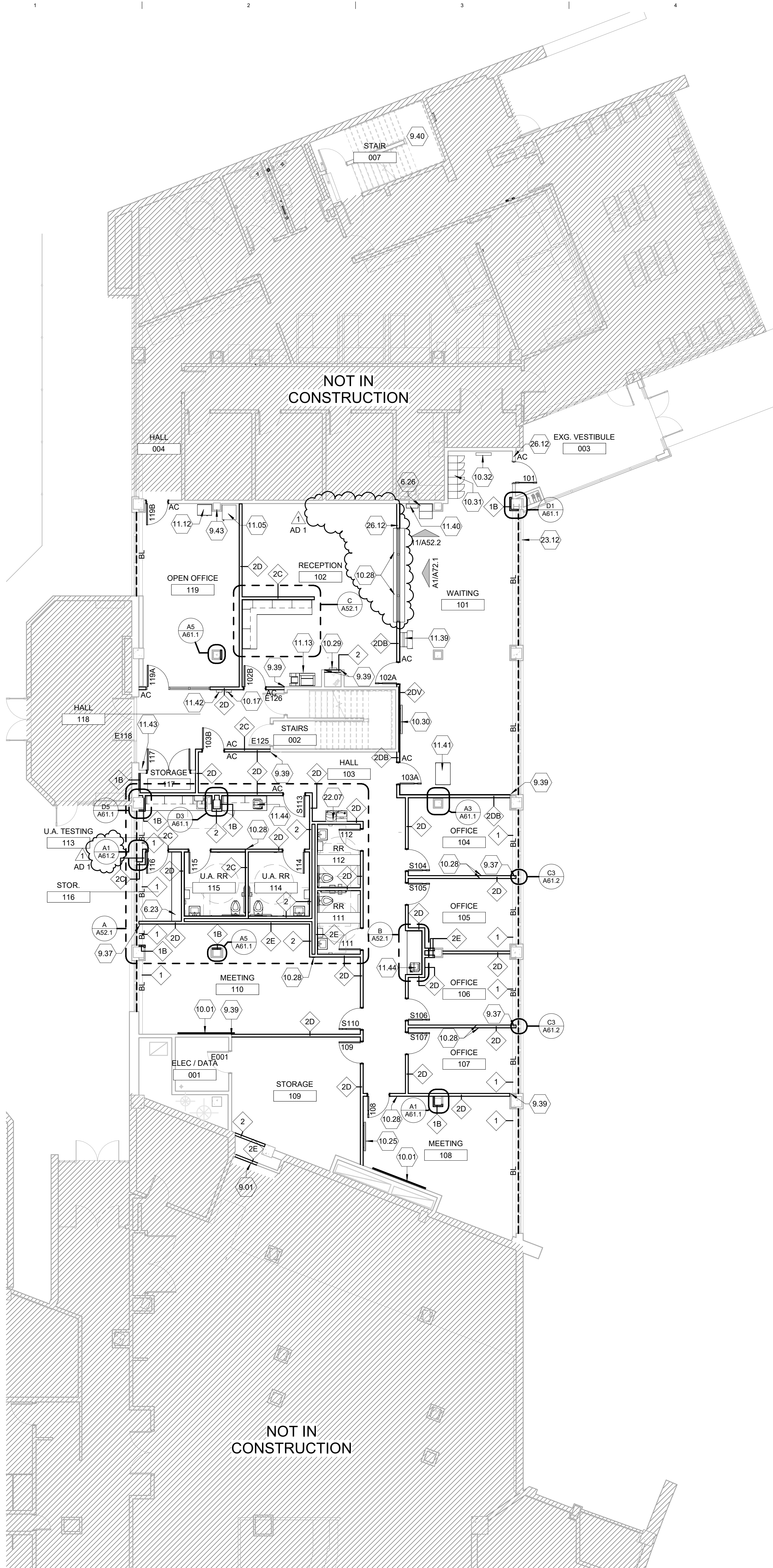
- G.C. SHALL VERIFY ALL EXISTING SITE AND BUILDING CONDITIONS PRIOR TO BID.
- REF. ALTERATIONS AND CUTTING AND PATCHING IN 01 TO 00 OF THE SPEC.
- THIS SHEET IS INTENDED FOR GENERAL INFORMATION. G.C. SHALL BE RESPONSIBLE FOR REMOVING EQUIPMENT AND DEVICES, CUT AND PATCH WORK, ETC., NECESSARY FOR NEW AND REMODEL CONSTRUCTION. COORDINATE WORK ON DEMO SHEETS WITH WORK ON FLOOR PLAN SHEETS. REF. MECH. AND ELEC. FOR DEMO, AND CUT AND PATCH WORK REQUIRED BY MECH. AND ELEC. WORK.
- DASHED LINES REPRESENT ITEMS FOR REMOVAL OR RELOCATION. REF. KEYED NOTES
- OWNER SHALL HAVE FIRST SALVAGE RIGHTS ON ALL ITEMS REMOVED FROM BLDG. G.C. SHALL VERIFY ALL ITEMS TO BE SALVAGED WITH OWNER AND COORDINATE WITH OWNER AS REQUIRED. ITEMS TO BE SALVAGED ARE TO BE REMOVED TO A LOCATION ON SITE AS DESIGNATED BY OWNER. ITEMS NOT SALVAGED SHALL BE REMOVED AND DISPOSED BY CONTRACTOR. SUCH ITEMS SHALL INCLUDE BUT ARE NOT LIMITED TO: FURNITURE, CABINETS, DEVICES, EQUIPMENT, PLUMBING, MECHANICAL, ETC.
- CONTRACTOR SHALL CUT AND PATCH FLOORS, WALLS, CEILINGS, AND ROOFS AS REQUIRED FOR PLACEMENT OF NEW PIPING, CONDUITS, DEVICES, STRUCTURE, ETC.
- REF. ALL PLANS FOR LOCATIONS.
- G.C. SHALL PROTECT ALL STRUCTURAL ELEMENTS IN BUILDINGS TO REMAIN.
- G.C. SHALL VERIFY ALL NEW OPENINGS FOR PIPING, DUCTS, AND CONDUIT WITH THE EXISTING STRUCTURAL SYSTEM OF THE BUILDING. DO NOT CUT THROUGH CONCRETE FLOOR/ROOF BEAMS, CONCRETE FLOOR/ROOF JOISTS, CONCRETE COLUMNS, STEEL COLUMNS, OR STEEL ROOF JOISTS UNLESS NOTED ON THE PLANS.
- G.C. SHALL PROTECT ALL EXIST. BUILDING COMPONENTS AND FINISHES TO REMAIN. G.C. SHALL REPAIR DAMAGE TO EXIST. BUILDING COMPONENTS AND FINISHES TO REMAIN.
- CONTRACTOR SHALL PATCH, REPAIR AND PAINT ALL SURFACES RESULTING FROM DEMOLITION WORK. ALL PATCHES ARE TO MATCH ADJACENT FINISHES AS CLOSELY AS POSSIBLE. WALL OR FLOOR SURFACES WHERE MILLWORK, ELECTRICAL DEVICES OR MECHANICAL EQUIPMENT IS REMOVED SHALL BE PATCHED AND PAINTED.
- CONTRACTOR SHALL REMOVE ALL EXISTING SWITCHES, OUTLETS, FIRE ALARM DEVICES, INTERCOM DEVICES, SPEAKERS, HOLD-OPENS, POWER STRIPS ETC., WHICH ARE NOT RECONNECTED. PROVIDE STAINLESS STEEL COVER PLATES OVER J-BOXES WHICH ARE NO LONGER BEING USED. REMOVE ALL EXPOSED CONDUIT/WIRE MOLD WHICH IS NO LONGER BEING USED. PATCH AND PAINT WALL.
- CONTRACTOR SHALL REMOVE ALL MECH. PLUMBING EQUIPMENT AND PIPING WHICH IS NOT RECONNECTED. SUCH ITEMS SHALL INCLUDE BUT NO LIMITED TO: VENTS, RADIATORS, VENTILATORS, WATER AND STEAM SUPPLY AND RETURN LINES, SEWER LINES, GAS LINES, INSULATION, ESCUTCHEONS, ELECTRICAL CONNECTIONS, AND ASSOCIATED CONSTRUCTION EXPOSED TO VIEW. CAP LINES AS REQUIRED. PIPING IN TUNNELS TO REMAIN UNLESS NOTED OTHERWISE.
- REFER TO MECHANICAL AND ELECTRICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION ON MECHANICAL AND ELECTRICAL DEMOLITION WORK.
- FLOORING TO BE REMOVED SHALL BE REMOVED TO CONCRETE (OR EXIST. SUB-FLOOR STRUCTURE). ALL GLUE, GROUT, AND RESIDUE SHALL BE REMOVED TO PROVIDE A CLEAN BARE SURFACE.
- G.C. SHALL SALVAGE AND STOCKPILE BUILDING PRODUCTS FROM DEMOLITION TO BE USED FOR PATCHWORK. SUCH ITEMS SHALL INCLUDE BUT ARE NOT LIMITED TO WALL TILE, DOORS, CEILING TILE, LIGHT FIXTURES, MECHANICAL DIFFUSERS, MOLDING, TRIM, SPECIAL EQUIPMENT, ETC. - REF. SPECIFICATIONS.
- ALL TASKBOARDS, SECTION SCREENS, BLINDS, ETC. ARE TO BE REMOVED FROM AREAS BEING REMODELED IF THEY CONFLICT WITH THE WORK WHETHER NOTED ON PLANS OR NOT. WALL SURFACES BEHIND BOARDS ARE TO HAVE GLUE REMOVED AND PATCHED AS REQUIRED TO MATCH ADJACENT SURFACES WHERE LEFT EXPOSED. G.C. SHALL VERIFY ITEMS TO BE SALVAGED.
- ALL TOILET ACCESSORIES SHALL BE REMOVED FROM RESTROOMS TO BE DEMOLISHED. G.C. SHALL VERIFY ITEMS TO BE SALVAGED.
- CONTRACTOR SHALL REMOVE ALL ABANDONED GAS PIPING SYSTEMS IN REMODEL AREAS WHERE GAS IS NO LONGER NEEDED. PLUG LINES OUT OF VIEW & PATCH PENETRATIONS. REF. MECH.
- IN ROOMS WHERE NEW ACOUSTICAL CEILINGS ARE INSTALLED ABOVE ACOUSTICAL CEILINGS WHICH ARE REMOVED, PATCH WALL WHERE ACOUSTICAL CEILING IS REMOVED.
- MESH AND PLASTER AROUND COLUMN ARE TO REMAIN INTACT TO MAINTAIN THE REQUIRED FIRE RATING.
- CONTRACTOR SHALL SALVAGE ALL WIFI EQUIPMENT.
- CONTRACTOR SHALL SALVAGE ALL EXISTING LIGHTS FOR REUSE.
- CONTRACTOR SHALL REMOVE ALL EXISTING CHAIR RAILING UNLESS NOTED OTHERWISE.

KEYNOTES

- 2.01 EXISTING WALL TO BE REMOVED IN ITS ENTIRETY. PATCH FLOOR AND PATCH AND PAINT ADJACENT WALLS AS REQUIRED TO MATCH ADJACENT SURFACES WHERE LEFT EXPOSED. REMOVE ALL ELECTRICAL DEVICES AND REMOVE WIRING BACK TO ITS SOURCE.
- 2.11 EXISTING FLOOR FINISH TO REMAIN. PROTECT FINISH AS REQUIRED.
- 2.18 EXISTING DOOR AND FRAME TO BE REMOVED IN ITS ENTIRETY.
- 2.19 EXISTING DOOR AND FRAME TO BE REMOVED IN ITS ENTIRETY. PREP. OPENING FOR NEW 58" GYP. BD. ON 3 5/8" METAL STUD @ 16" O.C. WALL INFILL. PATCH AND PAINT AS REQUIRED TO MATCH ADJACENT FINISH.
- 2.21 CUT OPENING IN EXISTING WALL AS REQUIRED FOR NEW DOOR AND FRAME. PATCH AND PAINT HEAD, JAMBS, AND FLOOR AS REQUIRED TO MATCH ADJACENT FINISH.
- 2.24 EXISTING WINDOW TO BE REMOVED IN ITS ENTIRETY AND SALVAGE FOR OWNER. PREP. OPENING FOR NEW 58" GYP. BD. ON 3 5/8" METAL STUD WALL @ 16" O.C. INFILL. PATCH AND PAINT AS REQUIRED TO MATCH ADJACENT FINISH.
- 2.37 EXISTING MILLWORK/CASEWORK TO BE REMOVED IN ITS ENTIRETY.
- 2.55 EXISTING WINDOW REMOVED IN ITS ENTIRETY.
- 2.63 EXISTING FIRE EXTINGUISHER CABINET TO BE REMOVED IN ITS ENTIRETY. SALVAGE FIRE EXTINGUISHER TO BE RELOCATED.
- 2.65 EXISTING TIMECLOCK TO BE REMOVED AND SALVAGED FOR REUSE.
- 2.66 EXISTING CARPET FLOORING AND BASE IN ROOM TO BE REMOVED TO SURFACE OF CONCRETE, INCLUDING ASBESTOS TILE AND MASTIC. PREP SURFACE FOR NEW FLOORING AS REQUIRED. PROVIDE CLEARANCE PER INDEPENDENT TESTING AGENCY.
- 2.68 EXISTING DOOR AND FRAME TO BE REMOVED IN ITS ENTIRETY. SALVAGE DOOR AND HARDWARE TO BE REUSED.
- 2.70 EXISTING CHAIR RAIL TRIM TO BE REMOVED IN ITS ENTIRETY.
- 2.71 EXISTING POCKET DOOR TO BE REMOVED. EXISTING WALL TO BE BUILT BACK. CAVITY WALL TO BE BUILT BACK.
- 2.72 EXISTING CROWN MOLDING TO BE REMOVED.
- 2.73 EXISTING COUNTERTOP TO BE REMOVED.
- 2.74 EXISTING FIRE EXTINGUISHER TO BE REMOVED AND SALVAGED.
- 2.75 EXISTING PORCELAIN TILE IN ROOM TO BE REMOVED TO SURFACE OF CONCRETE, INCLUDING GROUT AND TILE BASE. PREP SURFACE FOR NEW FLOORING AS REQUIRED.
- 2.76 EXISTING EQUIPMENT TO BE REMOVED BY GC.
- 2.77 EXISTING POWER POLES TO BE REMOVED IN ITS ENTIRETY. REMOVE WIRING BACK TO ITS SOURCE.
- 2.78 EXISTING WOOD PANELING TO BE REMOVED. PREPARE FOR NEW 1 - 5/8" HAT CHANNEL AND 5/8" GYP. BD WALL TO BE INSTALLED.
- 2.79 EXISTING DOME MIRROR TO BE REMOVED AND SALVAGED.
- 2.82 EXISTING CURTAINS TO BE REMOVED.
- 2.86 EXISTING WALL AND TWO LAYERS OF WALL AND FLOOR TILE TO BE REMOVED IN ITS ENTIRETY. PATCH FLOOR AND PATCH AND PAINT ADJACENT WALLS AS REQUIRED TO MATCH ADJACENT SURFACES WHERE LEFT EXPOSED. REMOVE ALL ELECTRICAL DEVICES AND REMOVE WIRING BACK TO ITS SOURCE.
- 2.87 EXISTING TWO LAYERS OF WALL TILE TO BE REMOVED IN ITS ENTIRETY. PATCH AND PAINT WALL TO MATCH ADJACENT SURFACES WHERE LEFT EXPOSED.
- 2.88 EXISTING DOOR AND FRAME TO BE REMOVED IN ITS ENTIRETY. SALVAGE DOOR, DOOR HARDWARE, FRAME AND ACCESS CONTROL TO BE REUSED. PATCH AND REPAIR FOR GYP. BD. OPENING.
- 2.89 EXISTING BASEBOARD RADIATOR COVER TO BE REMOVED.
- 2.90 REMOVE WALL COVERING ON WAINSCOT. TRIM TO REMAIN.
- 2.91 REMOVE TRIM AND COUNTERTOP AT OPENING AND EXPAND TO ACCOMMODATE 36" X 88" GYP. BD. OPENING AS REQUIRED.
- 2.93 EXISTING HAND RAILING TO REMAIN.
- 2.94 REMOVE WALL CAP ON PARTIAL WALL.
- 2.95 EXISTING DOOR TO BE REMOVED. FRAME TO REMAIN.
- 2.96 REMOVE AND SALVAGE DOOR OPENER.





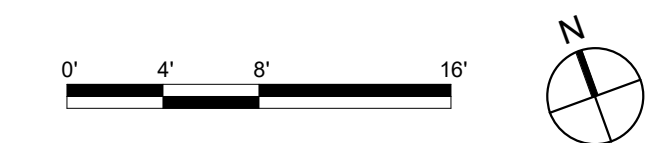


**A LEVEL 1 - FLOOR PLAN**  
1/8" = 1'-0"



**B LEVEL 2 - FLOOR PLAN**  
1/8" = 1'-0"

## SHEET SCALE



- NOTE:
- DO NOT SCALE DRAWINGS
  - CONTRACTOR TO FOLLOW WRITTEN DIMENSIONS ONLY
  - NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND AMONG THE DOCUMENTS & SITE CONDITIONS

## GENERAL NOTES

- CONTRACTOR TO VERIFY EXISTING SITE AND BUILDING CONDITIONS PRIOR TO BIDDING
- REFERENCE SHEET G10.1 FOR GRAPHIC SYMBOL AND DRAWING
- SYMBOL DEFINITIONS
- HATCHED WALL WITH DARK (BLACK) PERIMETER LINES INDICATE NEW WALLS. EXISTING WALLS SHOWN WITH SCREENED (GRAY) LINES WITH NO FILL
- SEE ENLARGED PLANS FOR ALL ACCESSORY LOCATIONS THAT REQUIRE IN-WALL BLOCKING FOR ATTACHMENT
- SEE ALL MILLWORK DETAILS FOR ALL CASEWORK GOODS THAT REQUIRE IN-WALL BLOCKING FOR ATTACHMENT
- DOOR ROUGH OPENING LOCATIONS ARE 4" CLEAR FROM ADJACENT PERPENDICULAR WALL UNLESS DIMENSIONED
- ABBREVIATIONS:
  - BL BLINDS - REF. SPEC.
  - NIC NOT IN CONTRACT, ITEM PROVIDED AND INSTALLED BY OWNER
  - VIF VERIFY IN FIELD ACTUAL CONDITIONS
  - AC ACCESS CONTROL

## KEYNOTES

- 6.23 16" DEEP ADJUSTABLE SHELVES, PROVIDE BLOCKING - REF. SPEC.
- 6.26 PROVIDE BLOCKING FOR WALL MOUNTED CPU AND COUNTERTOP, INTERIOR PARTITION - REF. PARTITION SCHEDULE.
- 9.01 ALIGN NEW WALL ON EXISTING MULLION.
- 9.37 NEW WALL TO ALIGN WITH EXISTING WALL
- 9.39 WALL FINISH AS SCHEDULED, PROTECT FLOOR AND BASE.
- 9.40 FINISH COLUMN WRAP.
- 9.46 PATCH AND PAINT WALL TO MATCH ADJACENT FINISH.
- 9.48 GYP. BD. OPENING TO REMAIN.
- 9.49 EXTEND EXISTING WALL TO 8" ABOVE CEILING - REF. SCHEDULE.
- 10.01 MARKER BOARD, BOTTOM MOUNTED 36" A.F.F. PROVIDE BLOCKING - REF. SPEC.
- 10.17 FIRE EXTINGUISHER AND CABINET - REF. SPEC.
- 10.25 T.V. MOUNTED 42" TO CENTER A.F.F. - REF. SPEC. OWNER PROVIDED TV AND BRACKET, PROVIDE BLOCKING.
- 10.28 PANIC BUTTON - REF. ELEC.
- 10.29 KEY CABINET, TOP OF CABINET MOUNTED 54" A.F.F. - REF. SPEC.
- 10.30 T.V. MOUNTED 65" TO CENTER A.F.F. - REF. SPEC. OWNER PROVIDED TV AND BRACKET, PROVIDE BLOCKING.
- 10.31 LOCKERS - REF. SPEC.
- 10.32 WALL MOUNTED CELLPHONE LOCKERS, TOP OF LOCKERS MOUNTED 60" A.F.F. PROVIDE BLOCKING - REF. SPEC.
- 11.05 REFRIGERATOR - PROVIDED BY OWNER AND INSTALLED BY G.C.
- 11.12 MICROWAVE - PROVIDED BY OWNER AND INSTALLED BY G.C.
- 11.13 COPIER - PROVIDED AND INSTALLED BY OWNER.
- 11.39 EYE SCANNING STATION PROVIDED AND INSTALLED BY OWNER.
- 11.40 KIOSK PROVIDED AND INSTALLED BY OWNER, PROVIDE BLOCKING.
- 11.41 METAL DETECTOR - PROVIDED AND INSTALLED BY OWNER.
- 11.42 INSTALL SALVAGED TIMECLOCK.
- 11.43 INSTALL SALVAGED DOOR OPENER.
- 11.44 PRINTER - PROVIDED AND INSTALLED BY OWNER.
- 11.45 WALL MOUNTED FOLDER FILES - REF. SPEC.
- 22.07 DRINKING FOUNTAINS - REF. PLUMBING.
- 23.12 SPIGOT - REF. MECH.
- 26.12 SPEAKER - REF. ELEC.

**Schaefer**  
architecture

Schaefer Architecture  
257 N. Broadway  
Wichita, KS, 67202  
316.684.0171



MIDWEST ENGINEERING, INC.  
INTEGRATED CONSULTING ENGINEERS, P.A.

**Sedgwick County Courthouse Annex**  
PHASE 2 - CORRECTIONS

525 N. Main, Wichita, KS, 67203

©2024  
Schaefer Architecture, Inc.  
All Rights Reserved.

These drawings and their contents, including but not limited to, all concepts, designs, & ideas are the exclusive property of Schaefer Architecture, and may not be used or reproduced in any way without express written consent.

**REVISIONS**  
AD 1 10.16.2025

**PROJECT NUMBER**  
5278.50

**DATE**  
09.15.2025

**FLOOR PLAN**

**A22.1**

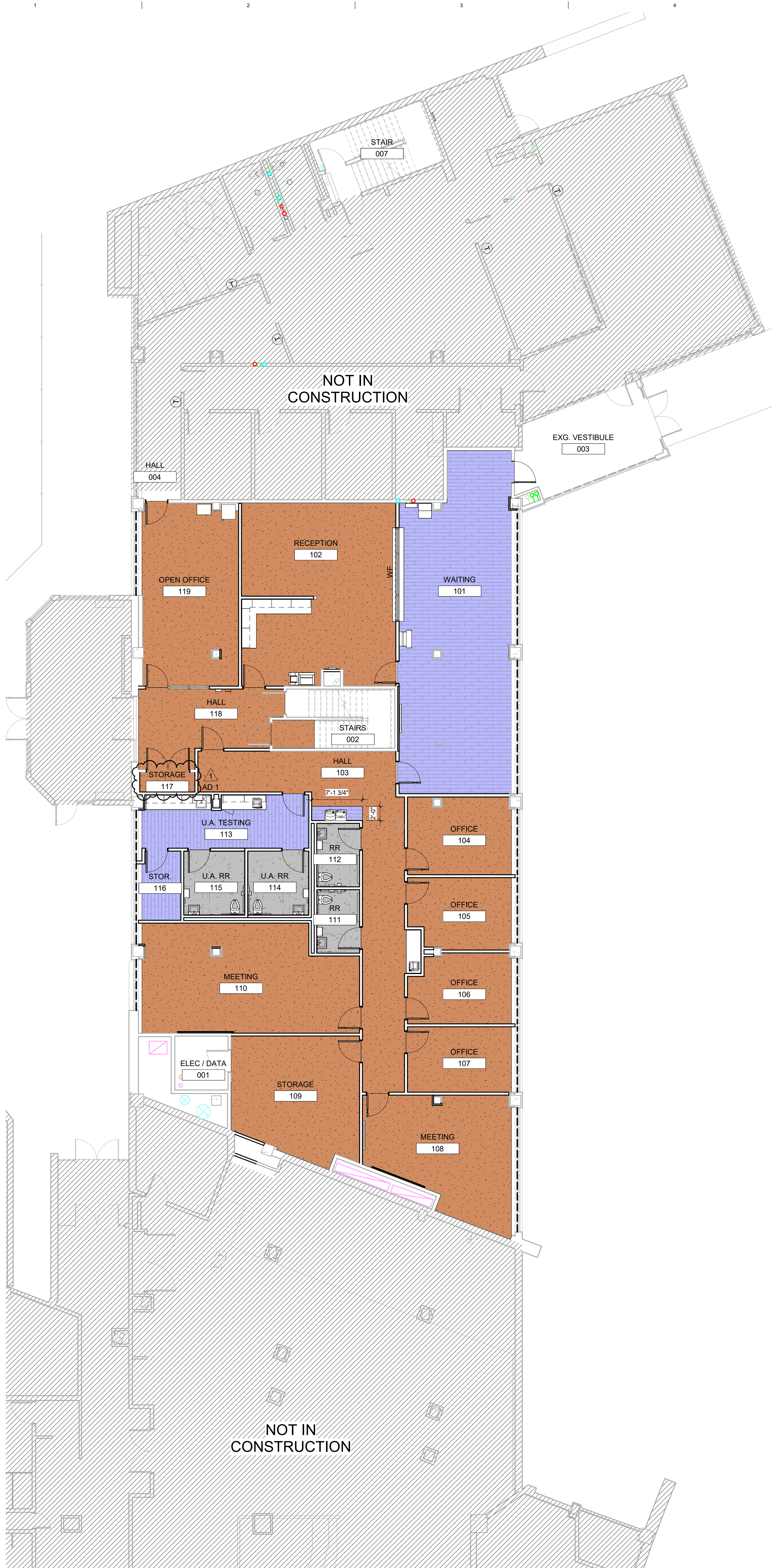




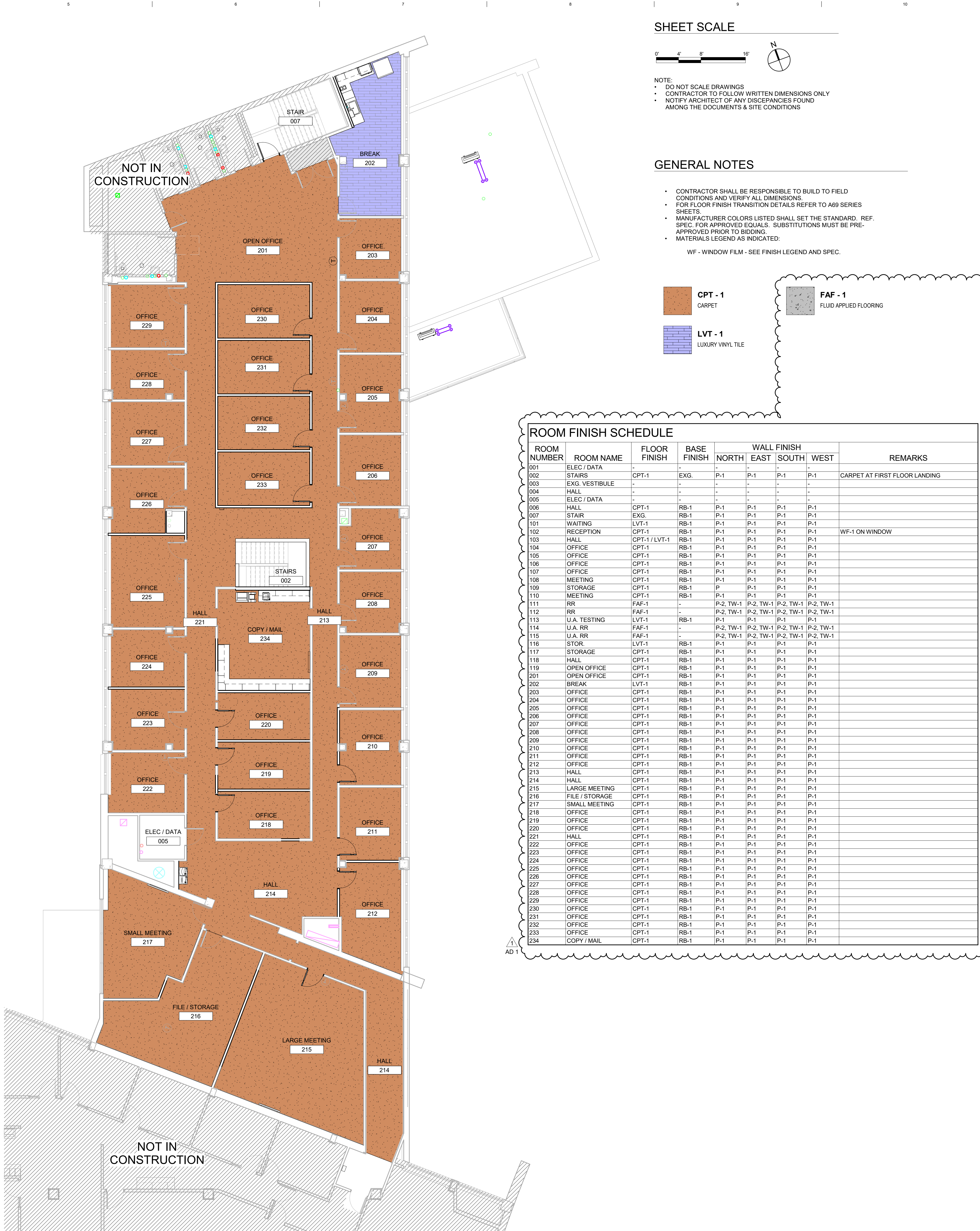
9.36 GYP. BD. HEADER AT 7'- 2" A.F.F.  
11.49 SAFETY DOME - REF. SPEC.

## A23.1





**A LEVEL 1 - FINISH PLAN**  
1/8" = 1'-0"



**B LEVEL 2 - FINISH PLAN**  
1/8" = 1'-0"

SHEET SCALE



- NOTE:
- DO NOT SCALE DRAWINGS
  - CONTRACTOR TO FOLLOW WRITTEN DIMENSIONS ONLY
  - NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND AMONG THE DOCUMENTS & SITE CONDITIONS

GENERAL NOTES

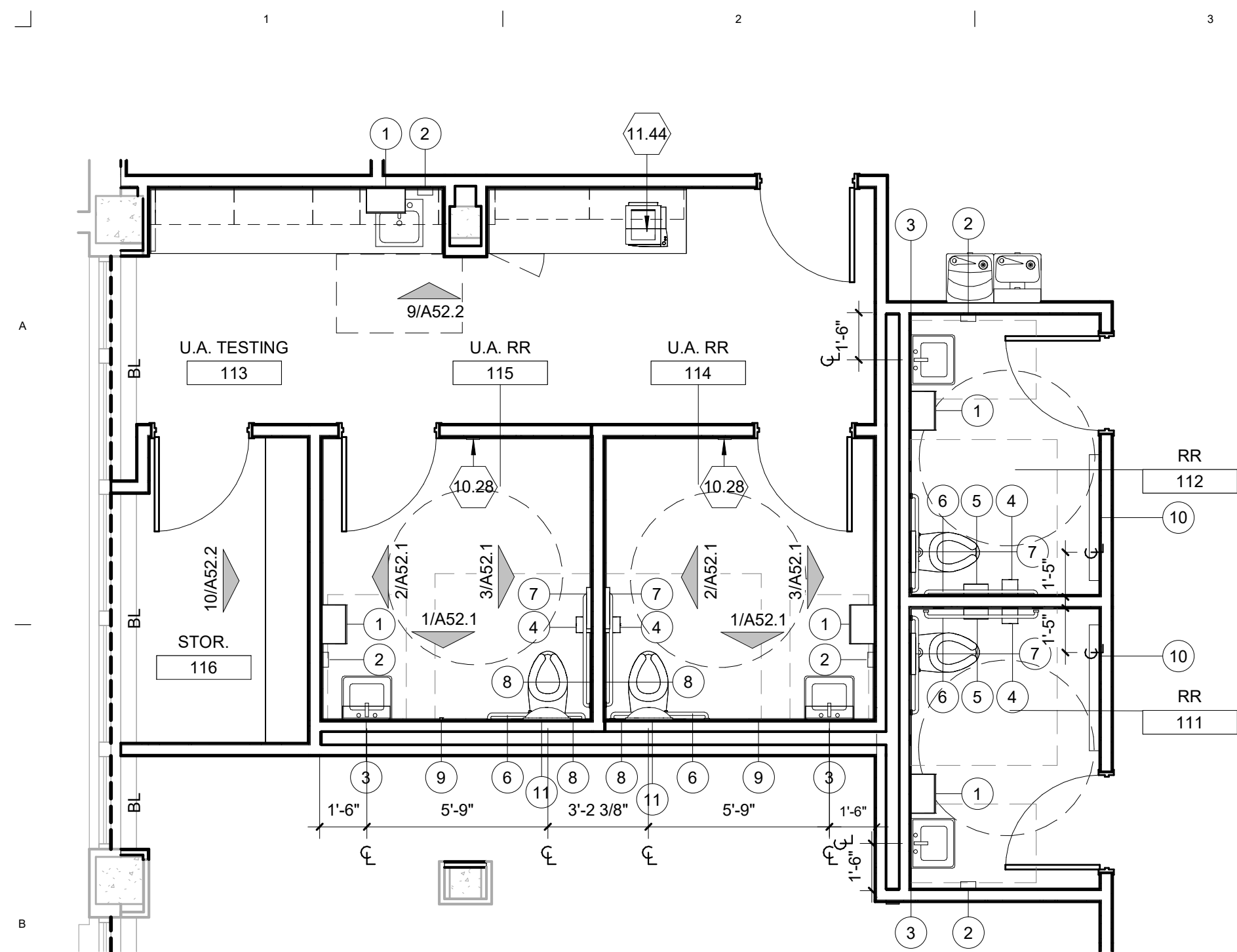
- CONTRACTOR SHALL BE RESPONSIBLE TO BUILD TO FIELD CONDITIONS AND VERIFY ALL DIMENSIONS.
- FOR FLOOR FINISH TRANSITION DETAILS REFER TO A69 SERIES SHEETS
- MANUFACTURER COLORS LISTED SHALL SET THE STANDARD. REF. SPEC. FOR APPROVED EQUALS. SUBSTITUTIONS MUST BE PRE-APPROVED PRIOR TO BIDDING.
- MATERIALS LEGEND AS INDICATED.

WF - WINDOW FILM - SEE FINISH LEGEND AND SPEC.

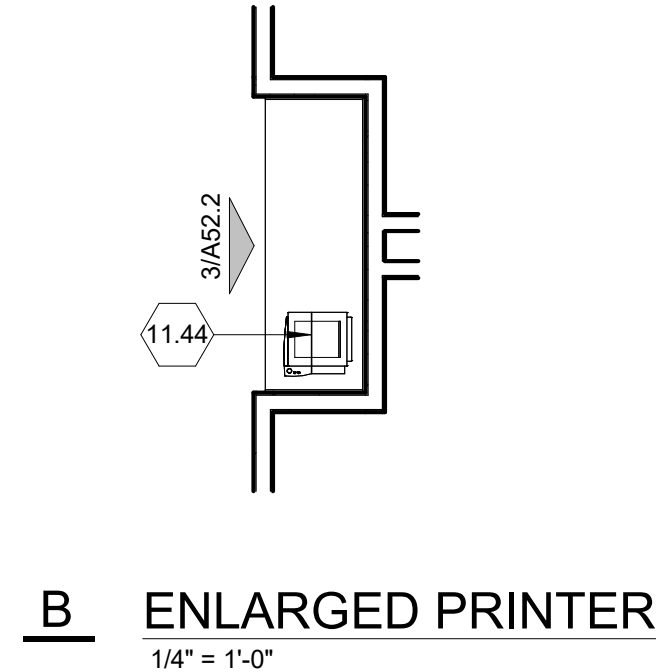
- CPT - 1**  
CARPET
- LVT - 1**  
LUXURY VINYL TILE

- FAF - 1**  
FLUID APPLIED FLOORING

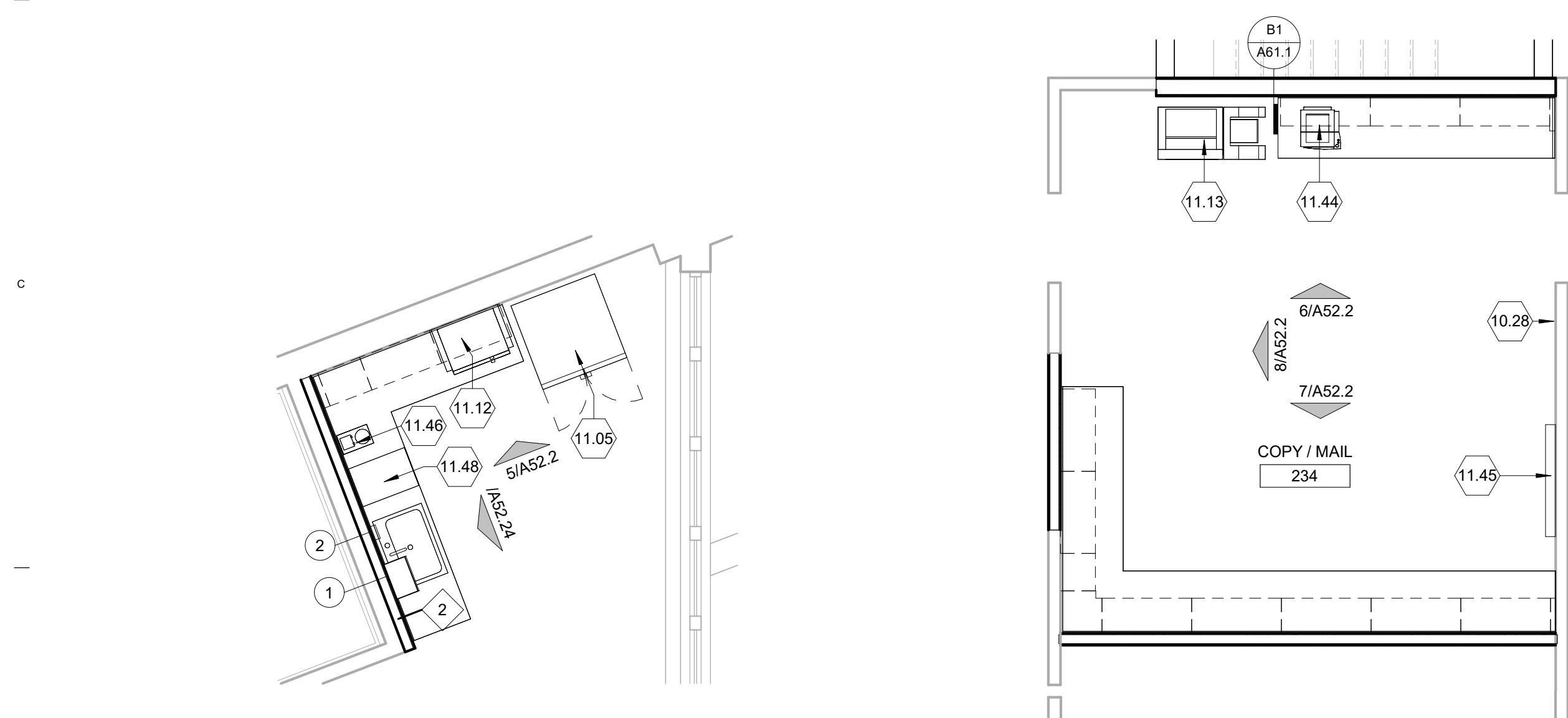




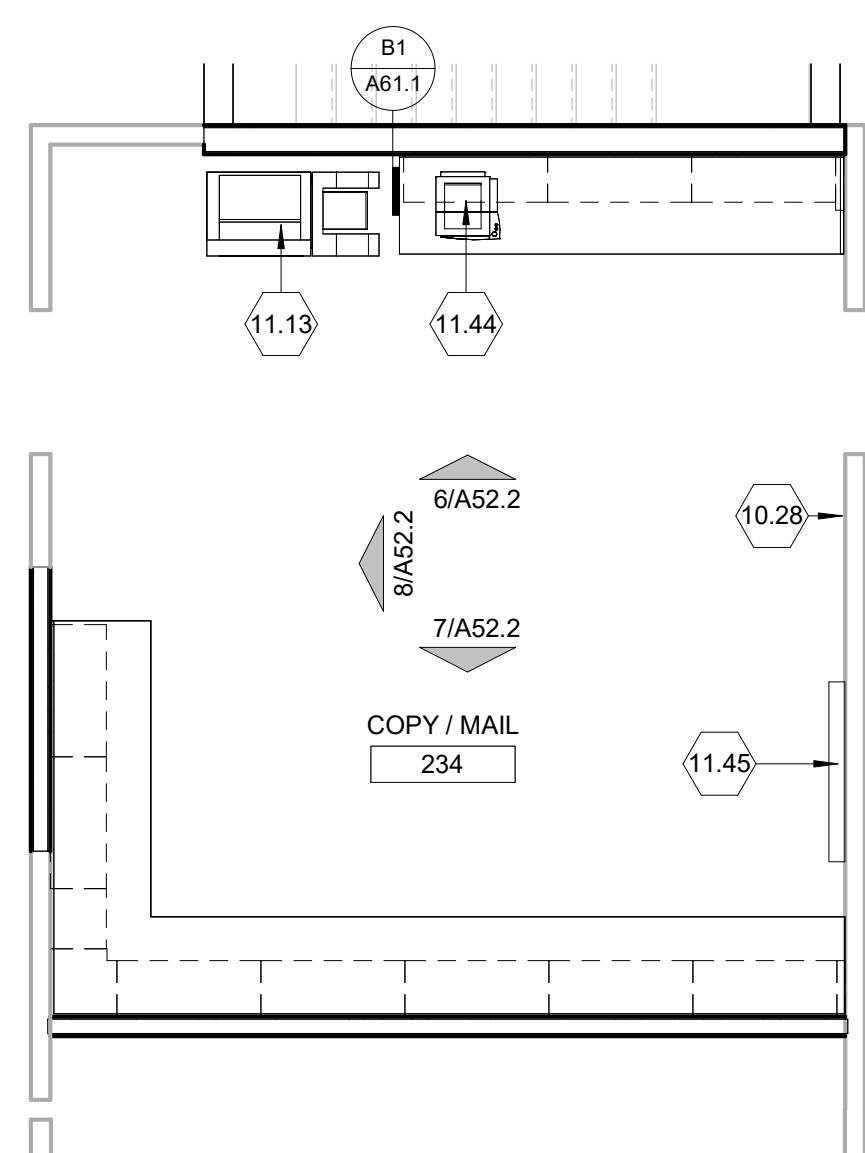
A ENLARGED RESTROOMS  
1/4" = 1'-0"



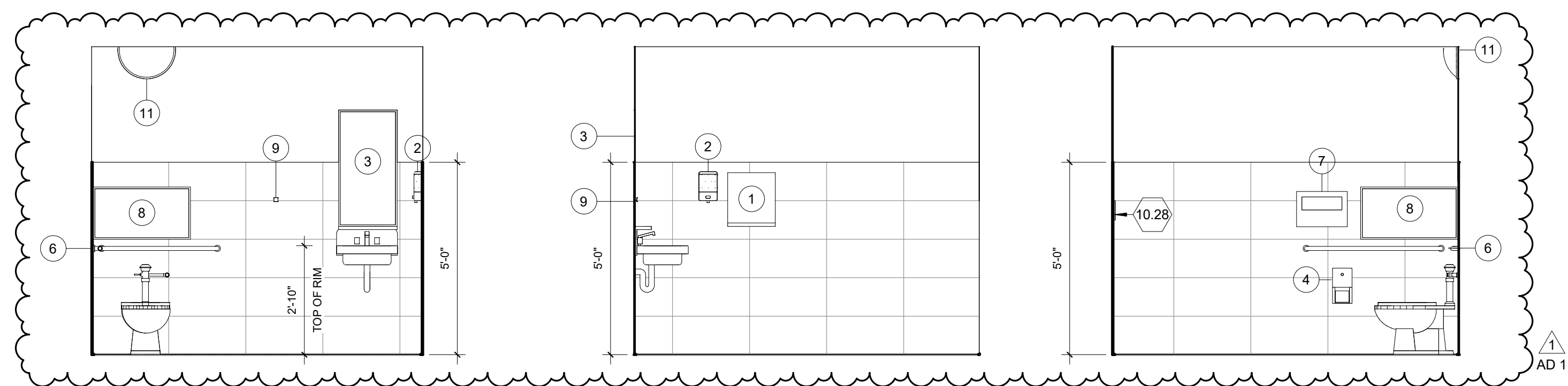
C ENLARGED PLAN - RECEPTION  
1/4" = 1'-0"



D ENLARGED PLAN - BREAK  
1/4" = 1'-0"



E    ENLARGED PLAN - COPY/MAIL  
1/4" = 1'-0"



1 U.A. RR - WET WALL  
AT U.A. RR 115. MIRRORED AT U.A. RR 114  
3/8" = 1'-0"

2 U.A. RR - SIDE WALL  
AT U.A. RR 115. MIRRORED AT U.A. RR 114  
3/8" = 1'-0"

3 U.A. RR - SIDE WALL  
AT U.A. RR 115. MIRRORED AT U.A. RR 114  
3/8" = 1'-0"

| RESTROOM EQUIPMENT SCHEDULE |     |                                            |         |         |       |              |            |         |
|-----------------------------|-----|--------------------------------------------|---------|---------|-------|--------------|------------|---------|
| DESCRIPTION                 | NO. | MOUNTING HEIGHT                            | WIDTH   | HEIGHT  | DEPTH | MANUFACTURER | MODEL      | REMARKS |
| PAPER TOWEL DISPENSER       | 1   | 48" A.F.F. TO TOP OF CONTROL               | -       | -       | -     | BY OWNER     | -          |         |
| SOAP DISPENSER              | 2   | 6" ABOVE LAV.                              | -       | -       | -     | BY OWNER     | -          |         |
| WALL HUNG MIRROR WITH SHELF | 3   | 40" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE | 18"     | 36"     | -     | ASI          | 0605       |         |
| TOILET PAPER DISPENSER      | 4   | 19" A.F.F. TO CENTERLINE                   | -       | -       | -     | BY OWNER     | -          |         |
| SANITARY NAPKIN DISPOSAL    | 5   | 16" TO BOTTOM                              | 11"     | 15 1/4" | 4"    | ASI          | 0475-1A    |         |
| GRAB BAR                    | 6   | 33" A.F.F. TO CENTER                       | -       | -       | -     | BOBRICK      | 6806       |         |
| SEAT COVER DISPENSER        | 7   | ABOVE GRAB BAR                             | -       | -       | -     | BY OWNER     | -          |         |
| WALL HUNG MIRROR            | 8   | 36" A.F.F.                                 | 16"     | 30"     | -     | ASI          | 0600-1630  |         |
| COAT HOOK                   | 9   | 48" A.F.F. TO CENTER                       | -       | -       | -     | BY OWNER     | -          |         |
| HINGED SHELF                | 10  | 34" A.F.F. TO TOP                          | 24"     | 48"     | 4"    | ULINE        | H-8992-1AM |         |
| SAFETY DOME                 | 11  | CEILING ADJACENT                           | 19 1/4" | 8 1/2"  | 9"    | ULINE        | H-1308     |         |

SHEET SCALE



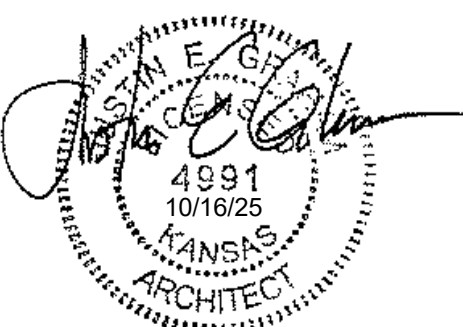
NOTE:

- DO NOT SCALE DRAWINGS
- CONTRACTOR TO FOLLOW WRITTEN DIMENSIONS ONLY
- NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND AMONG THE DOCUMENTS & SITE CONDITIONS

## KEYNOTES

|       |                                                        |
|-------|--------------------------------------------------------|
| 10.28 | PANIC BUTTON - REF. ELEC.                              |
| 11.05 | REFRIGERATOR - PROVIDED BY OWNER AND INSTALLED BY G.C. |
| 11.12 | MICROWAVE - PROVIDED BY OWNER AND INSTALLED BY G.C.    |
| 11.13 | COPIER - PROVIDED AND INSTALLED BY OWNER.              |
| 11.44 | PRINTER - PROVIDED AND INSTALLED BY OWNER.             |
| 11.45 | WALL MOUNTED FOLDER FILES - REF. SPEC.                 |
| 11.46 | COFFEE POT - PROVIDED AND INSTALLED BY OWNER.          |
| 11.48 | COUNTERTOP ICE MAKER - PROVIDED AND INSTALLED BY OWNER |

**Schaefer Architecture**  
257 N. Broadway  
Wichita, KS, 67202  
316.684.0171



MIDWEST ENGINEERING, INC.  
INTEGRATED CONSULTING ENGINEERS, P.A.

# Sedgwick County Courthouse Annex

## PHASE 2 - CORRECTIONS

5225 N. Main, Wichita, KS, 67203

©2024  
Schaefer Architecture,  
All Rights Reserved.

These drawings and their contents, including, but not limited to, all concepts, designs, & ideas are the exclusive property of Schaefer Architecture, and may not be used or reproduced in any way without

## REVISIONS

AD 1 10.16.2025

PROJECT NUMBER  
5278.50

DATE \_\_\_\_\_

## LARGED PLANS

## A52.1



A

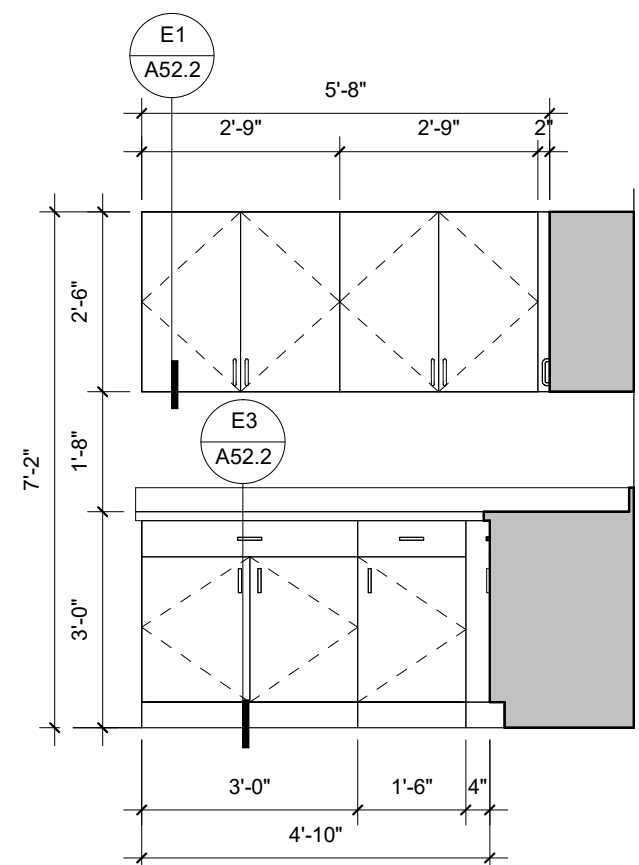
B

C

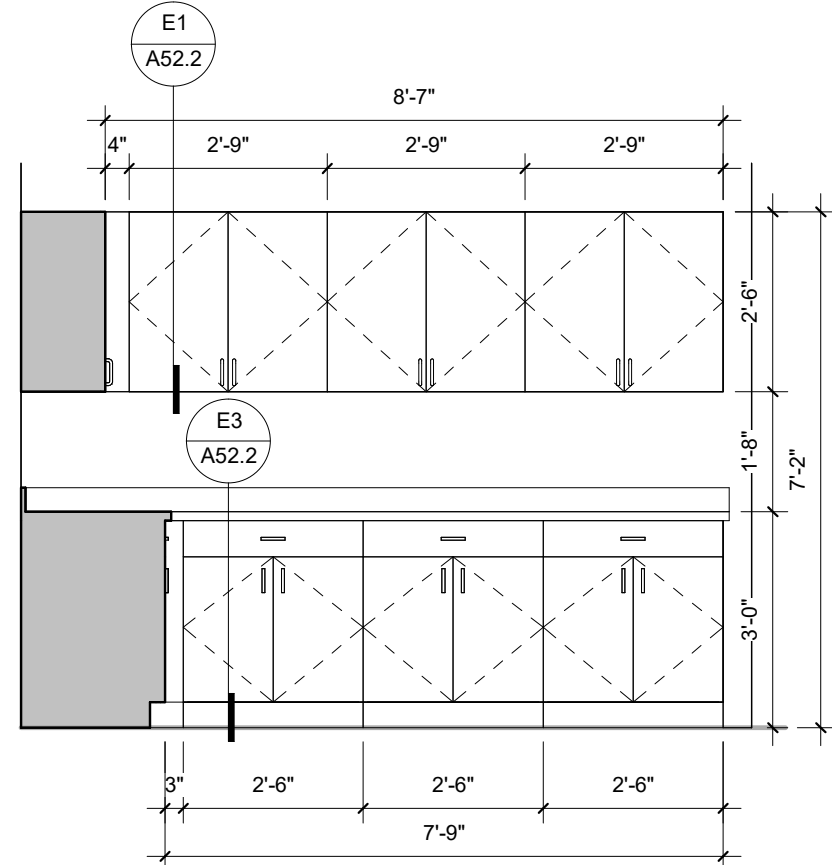
D

E

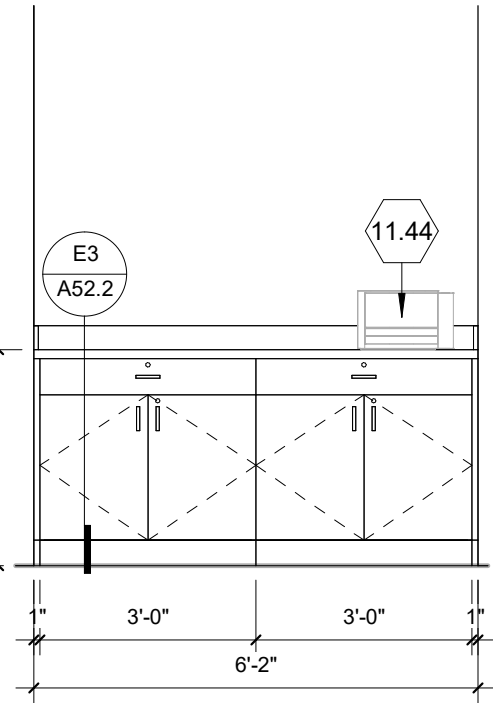
F



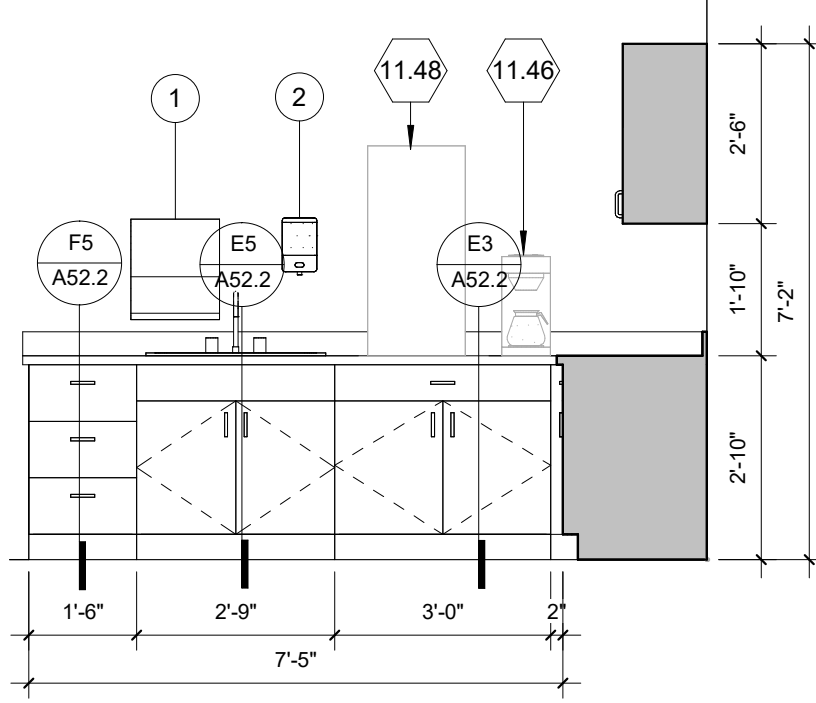
1 RECEPTION - WEST  
3/8" = 1'-0"



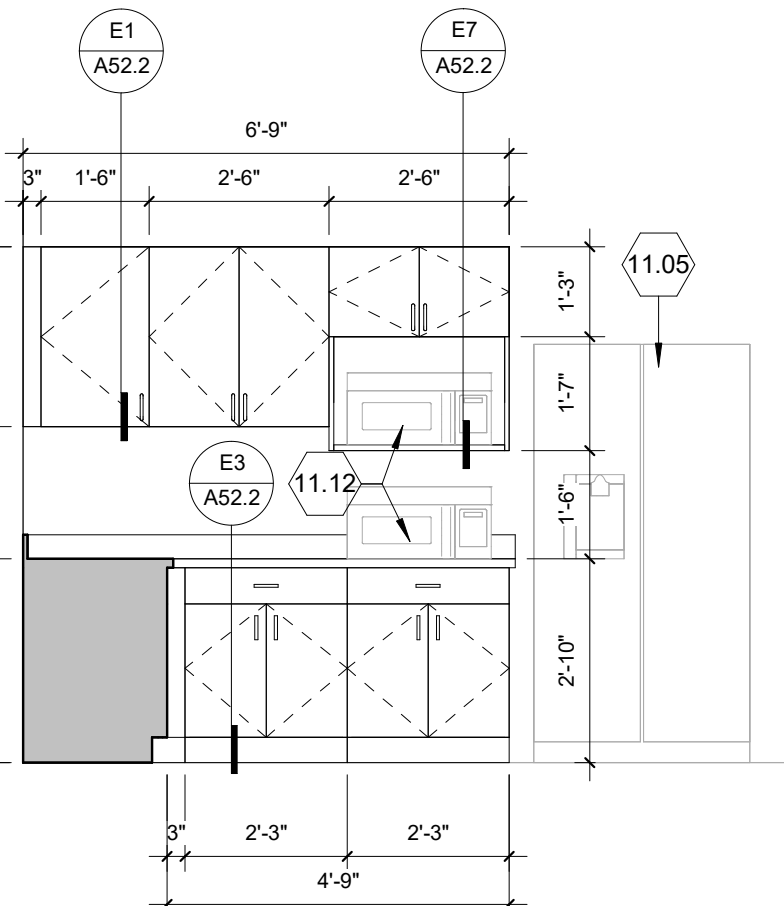
2 RECEPTION - NORTH  
3/8" = 1'-0"



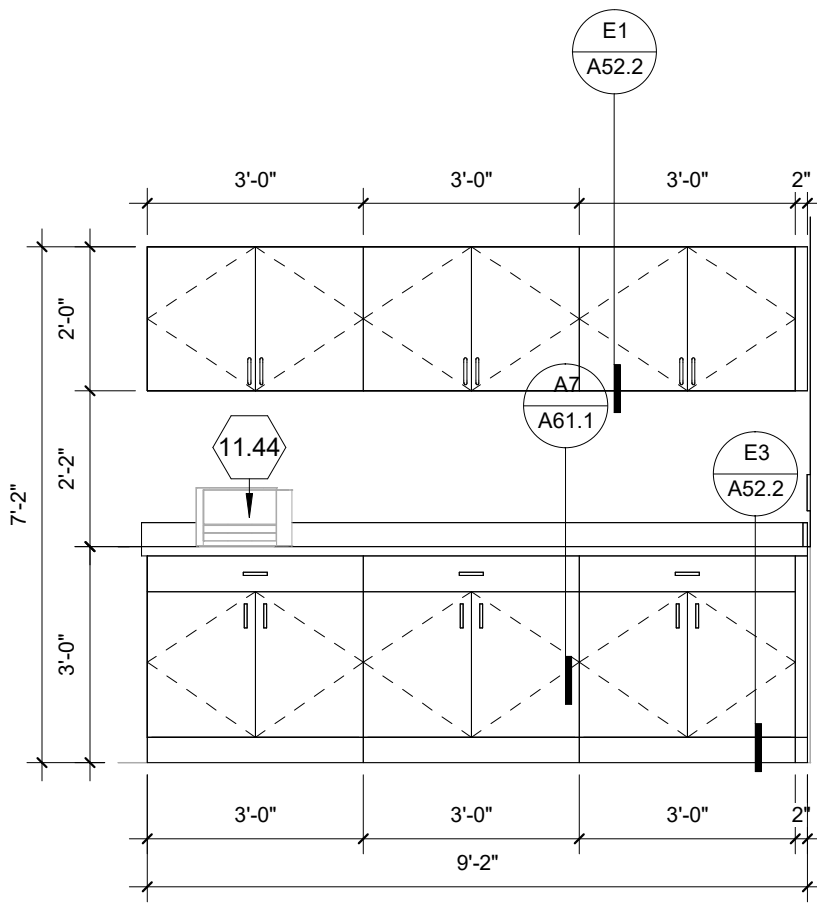
3 PRINTER  
3/8" = 1'-0"



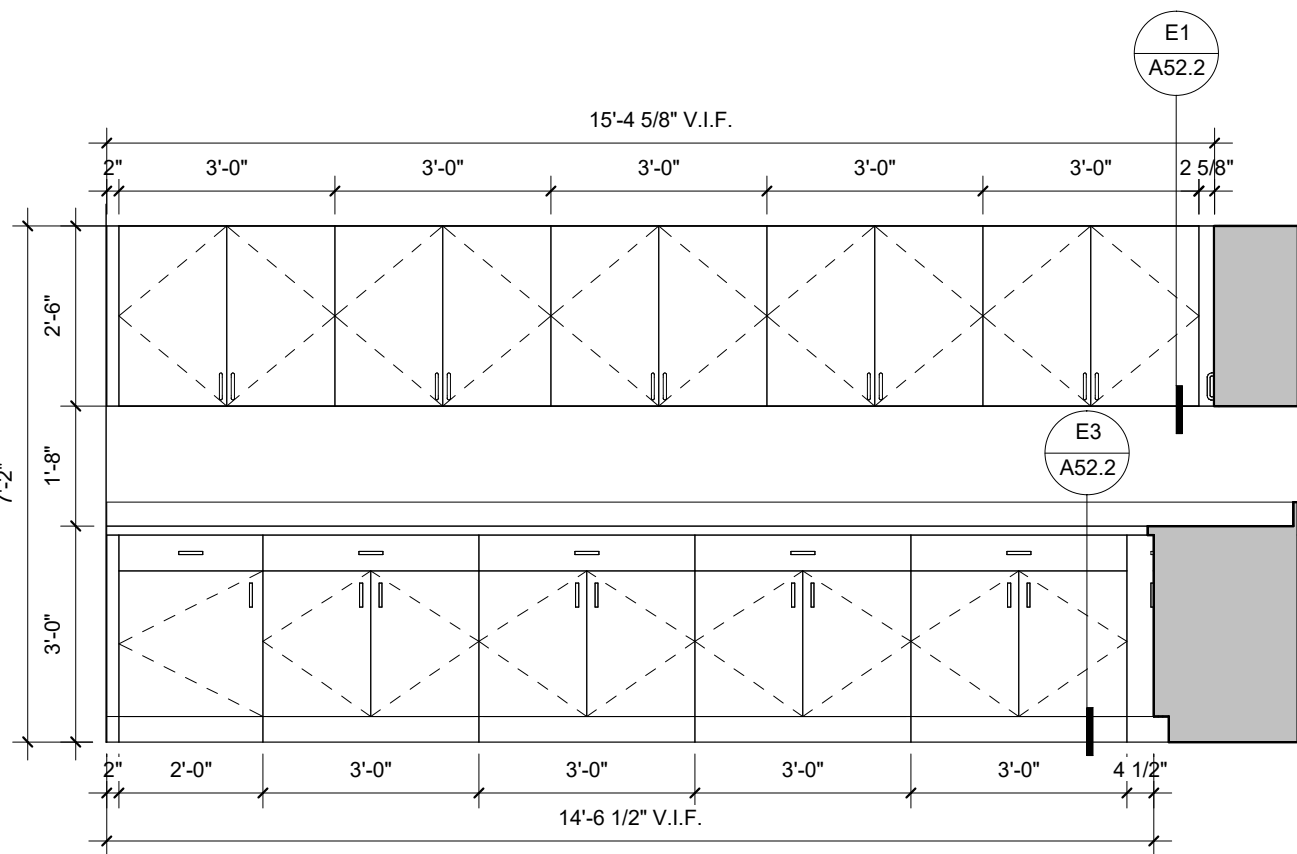
4 BREAK - WEST  
3/8" = 1'-0"



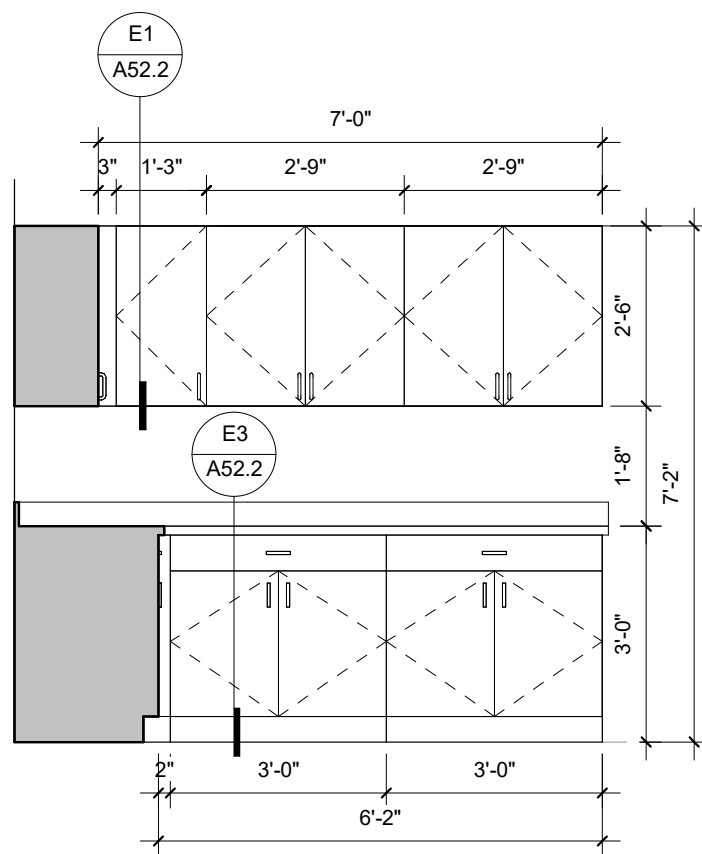
5 BREAK - NORTH  
3/8" = 1'-0"



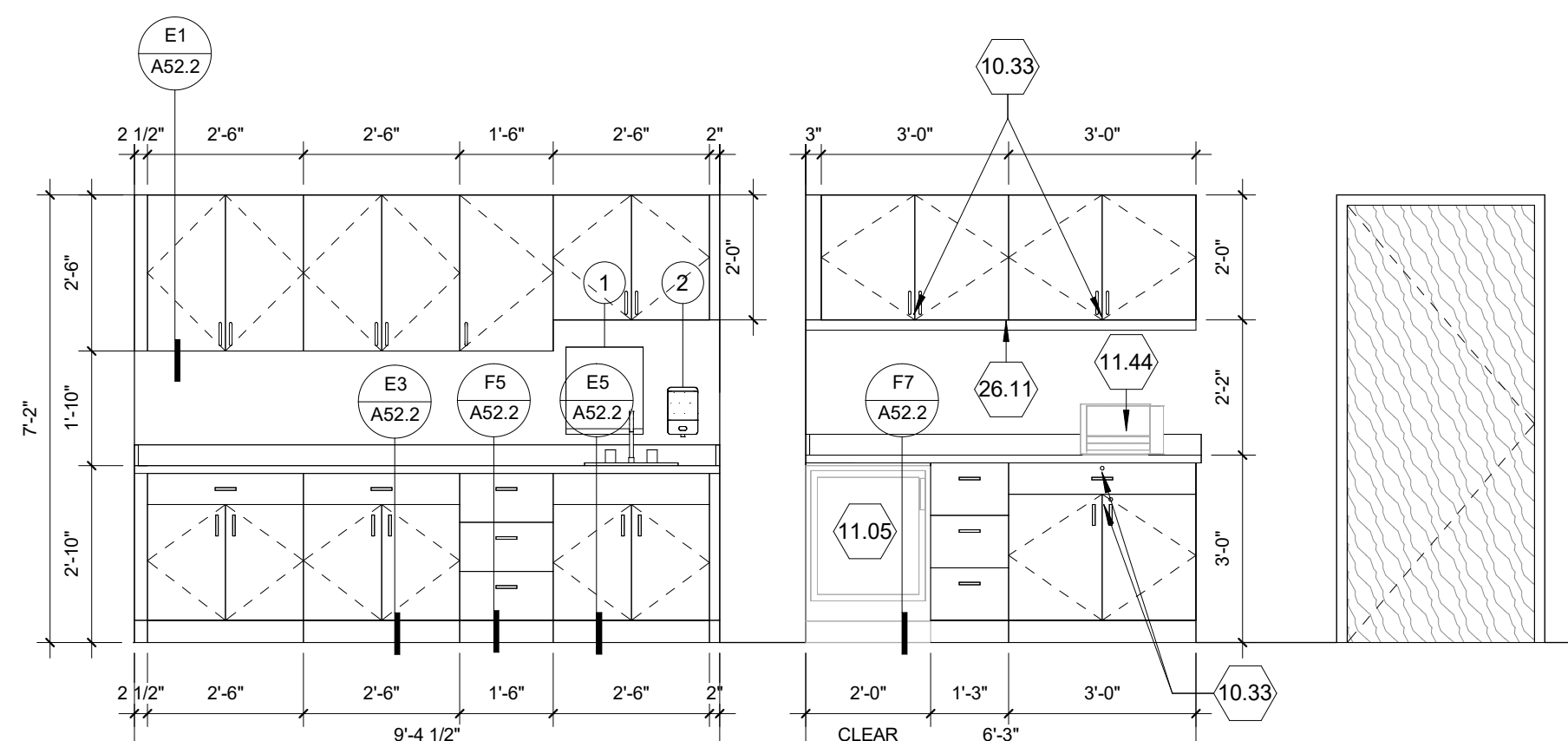
6 COPY/MAIL - NORTH  
3/8" = 1'-0"



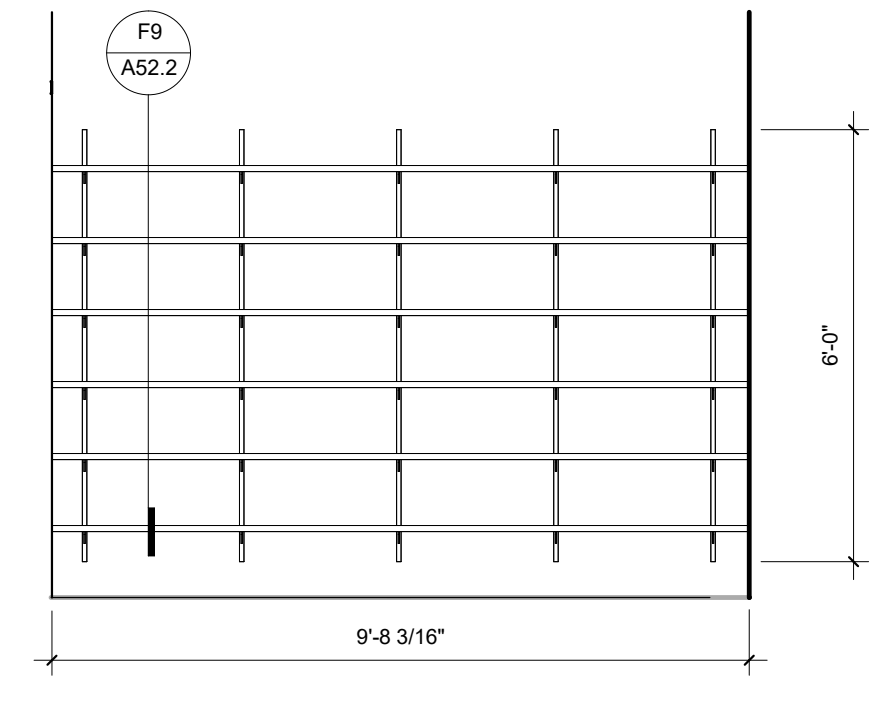
7 COPY/MAIL - SOUTH  
3/8" = 1'-0"



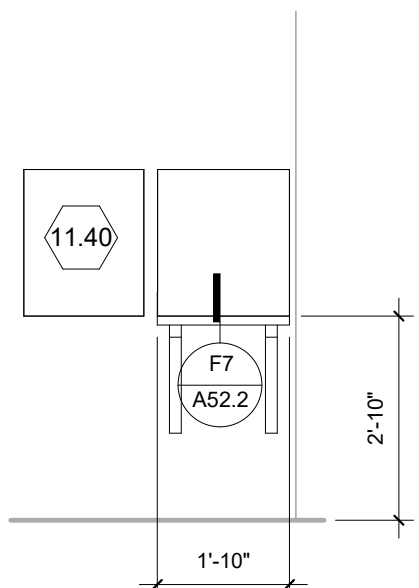
8 COPY/MAIL - WEST  
3/8" = 1'-0"



9 U.A. TESTING  
3/8" = 1'-0"

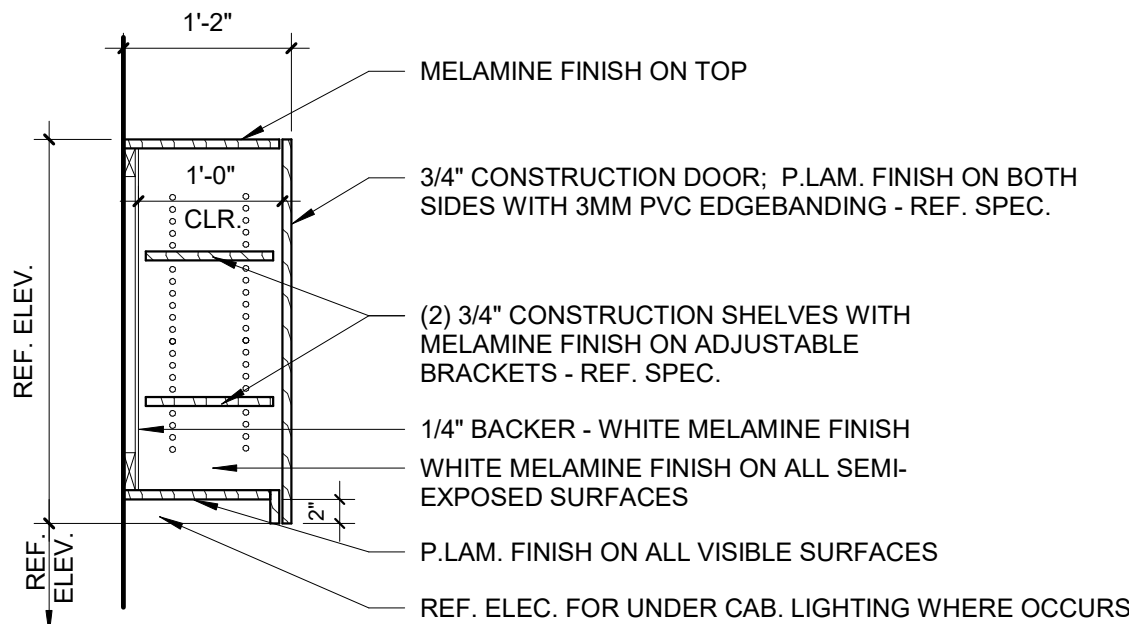


10 U.A. STORAGE  
3/8" = 1'-0"

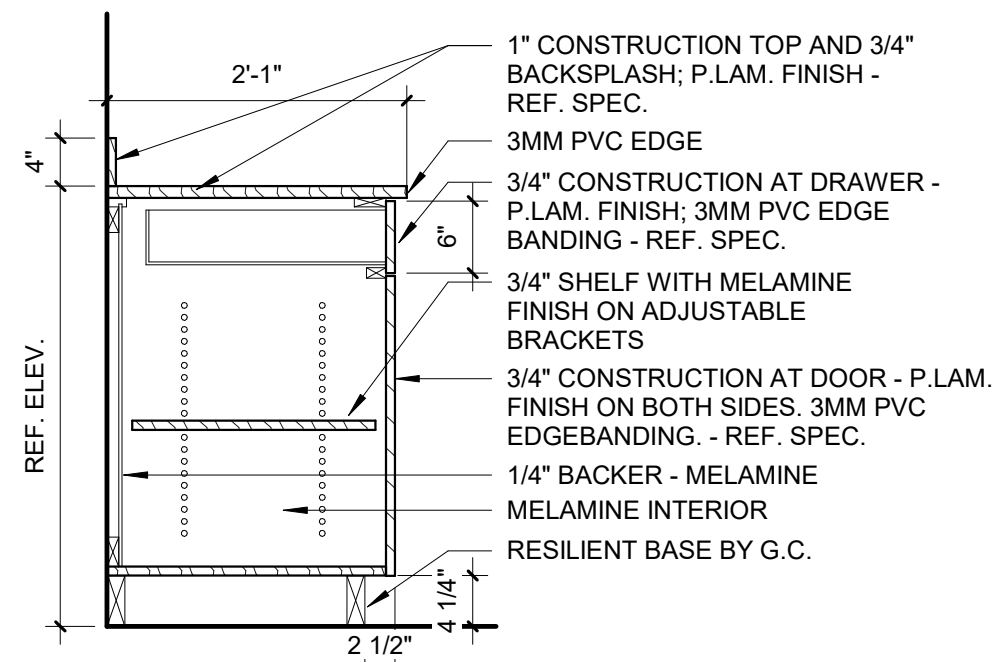


11 WAITING RM KIOSK  
3/8" = 1'-0"

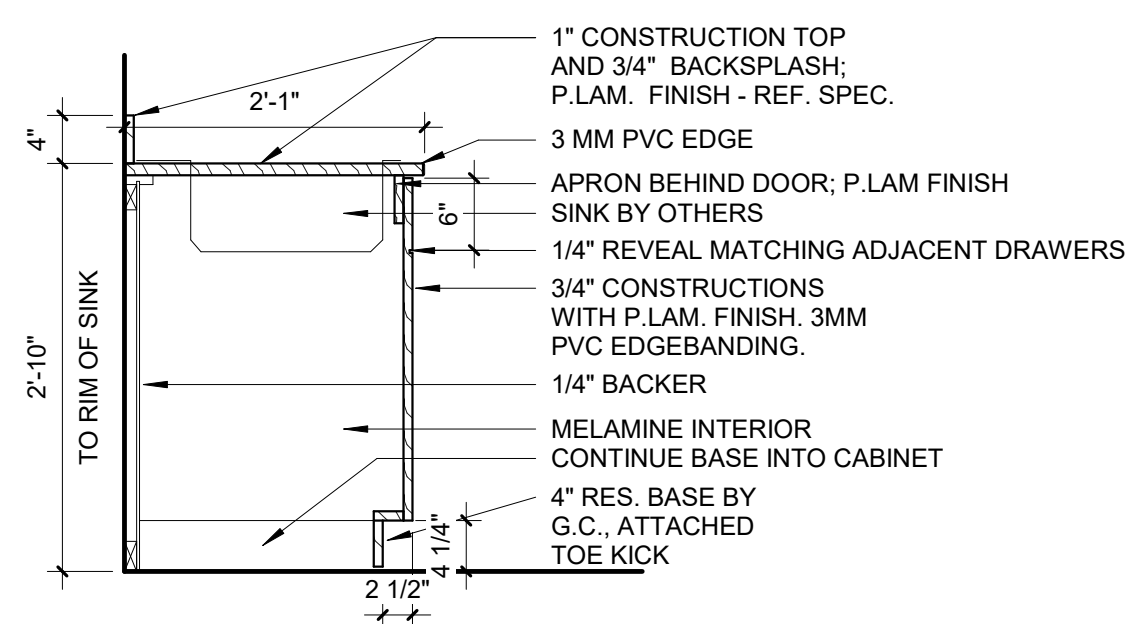
E1 UPPER CABINET  
3/4" = 1'-0"



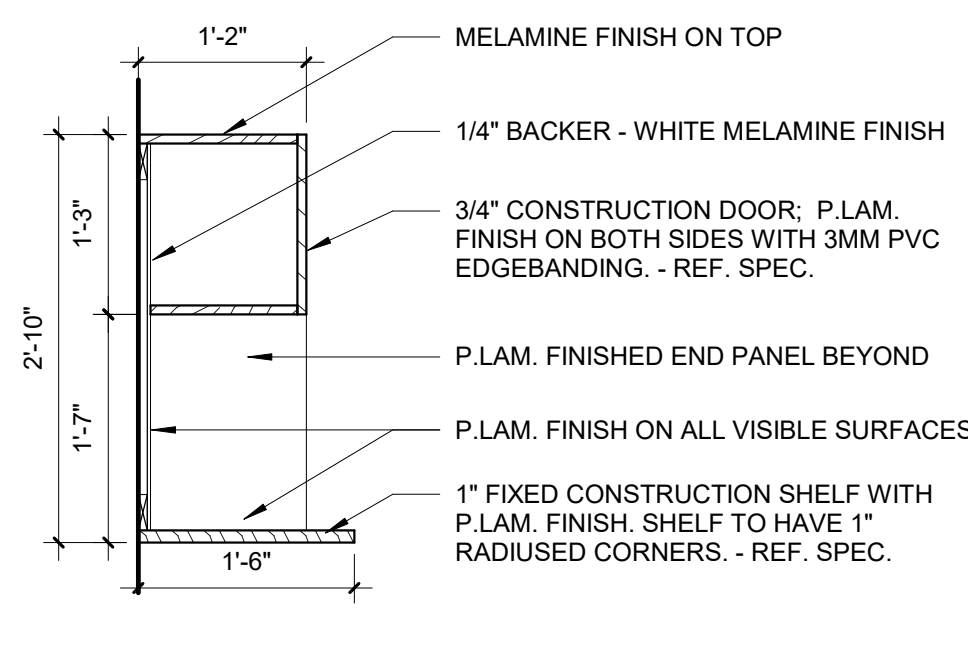
E3 BASE CAB. AT DRAWER  
3/4" = 1'-0"



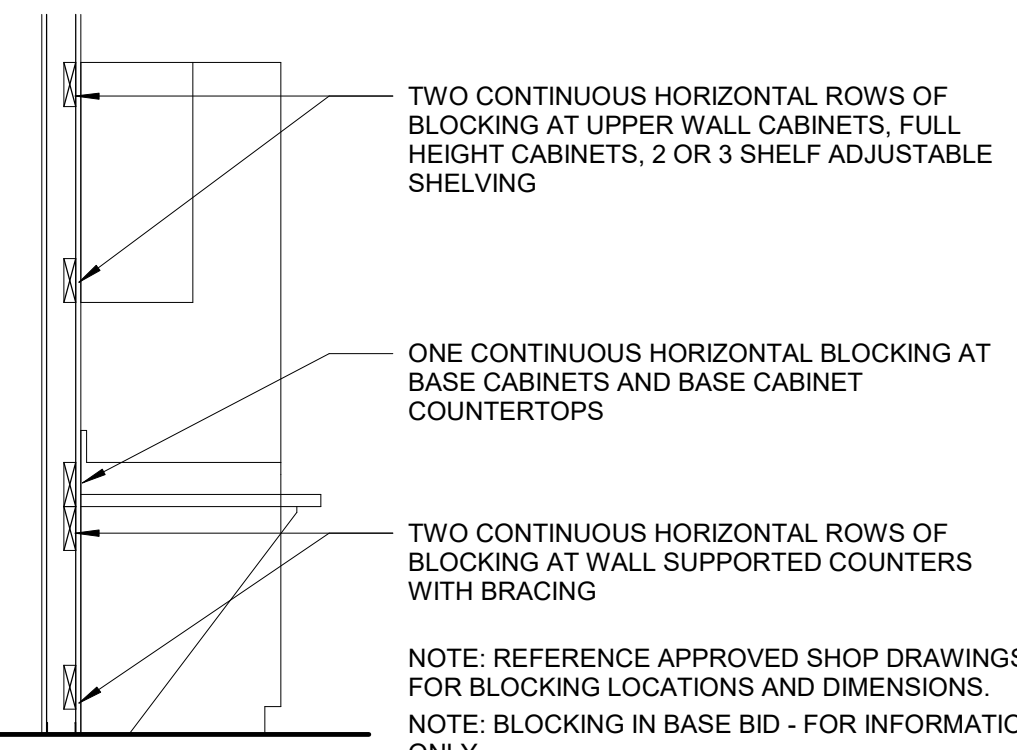
E5 ADA BASE CABINET @ SINK  
3/4" = 1'-0"



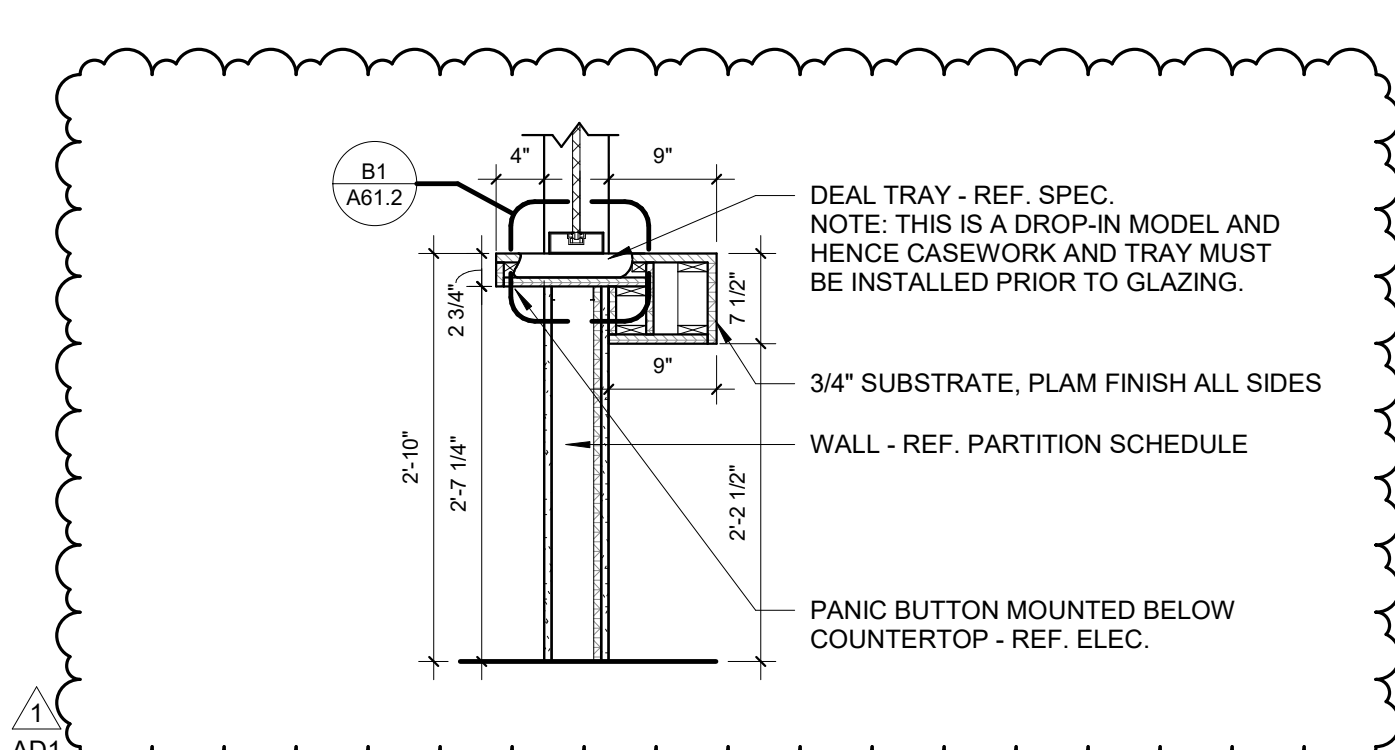
E7 MICROWAVE CABINET  
3/4" = 1'-0"



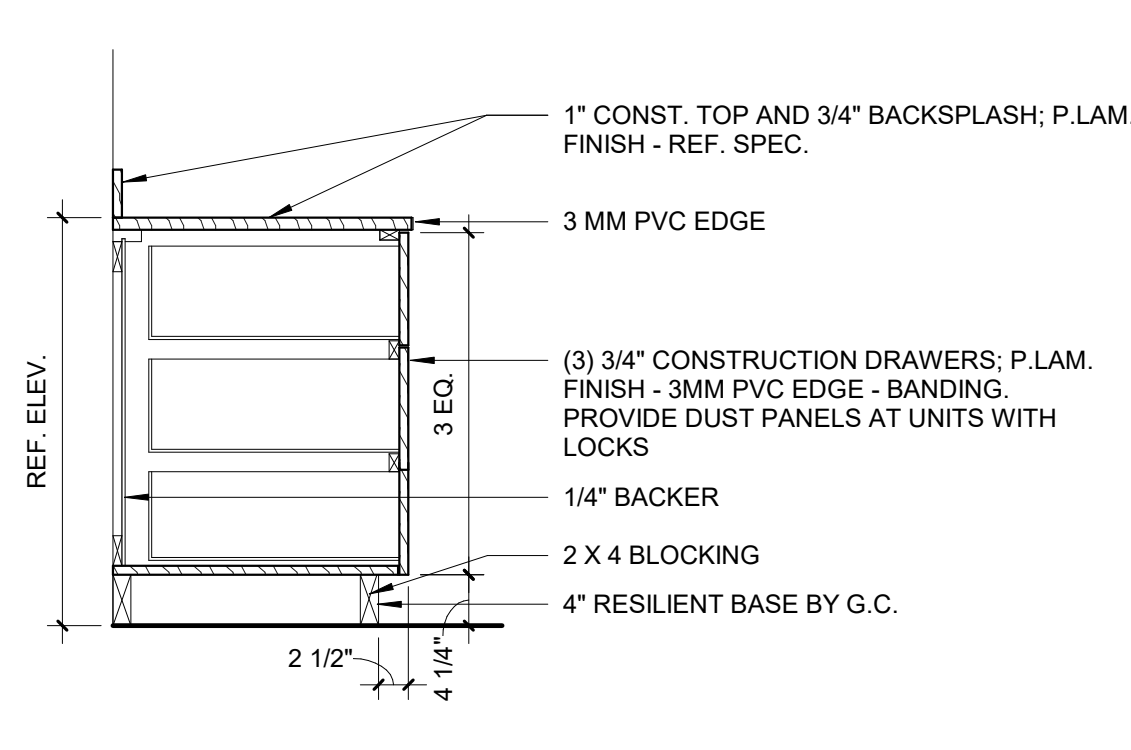
F1 TYPICAL MILLWORK BLOCKING  
1/2" = 1'-0"



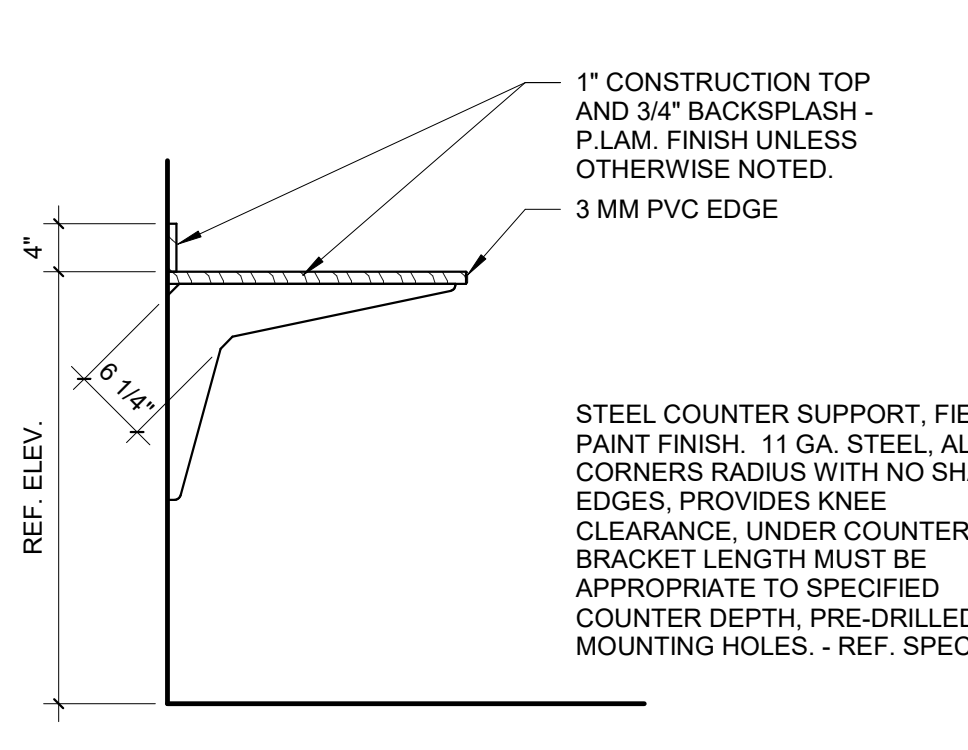
F3 RECEPTION DEAL TRAY  
3/4" = 1'-0"



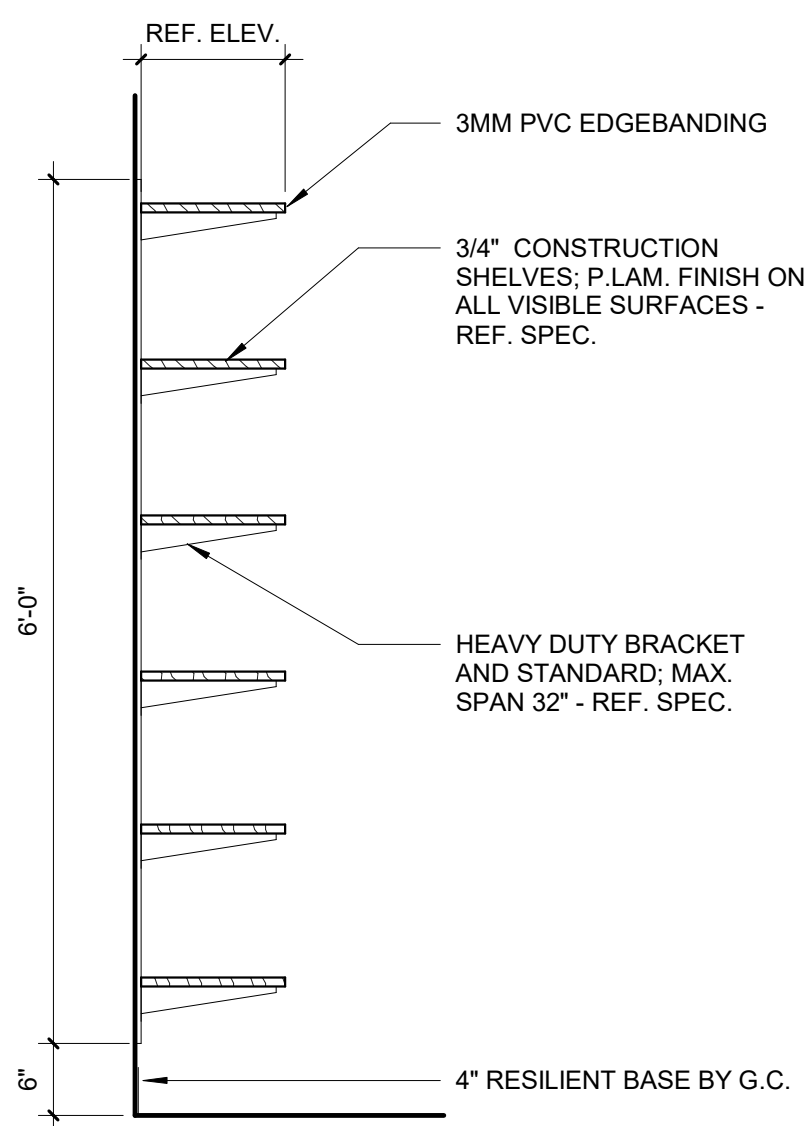
F5 BANK OF 3 DRAWERS  
3/4" = 1'-0"



F7 COUNTER TOP W/ STEEL SUPPORT  
3/4" = 1'-0"



F9 ADJUSTABLE SHELVING  
3/4" = 1'-0"



## GENERAL NOTES

- PROVIDE LOCKS ON ALL UNITS NOTED. REF. SPEC. PROVIDE ELBOW CATCH @ BOTTOM SIDE OF FIXED SHELF AT TALL CABINET.
- PROVIDE FINISHED FILLER PANELS AT ALL VERTICAL AND HORIZONTAL GAPS BETWEEN MILLWORK AND WALLS. (INCLUDING BOTTOMS OF WALL CABINETS.)
- PROVIDE BACKSPLASH @ ENDS OF ALL CABINETS WHERE IT ABUTS WALL.
- FIELD VERIFY ALL VERTICAL AND HORIZONTAL DIMENSIONS, INCLUDING LOCATIONS OF MECHANICAL EQUIPMENT, ELECTRICAL, ETC. NOTIFY ARCHITECT OF ANY CONFLICTS.
- FINISH ALL END CAPS, END SPLASHES AND END PANELS.
- END CAP ALL COUNTERTOPS ADJ. TO TALL STORAGE.
- BACKSPLASH MATERIAL TO MATCH COUNTERTOP MATERIAL.
- STEEL SUPPORT BRACKETS TO BE PROVIDED AT NO MORE THAN 32" O.C.
- PROVIDE ADEQUATE IN-WALL BLOCKING FOR ANCHORING OF STEEL SUPPORT BRACKETS.

## KEYNOTES

- |       |                                                          |
|-------|----------------------------------------------------------|
| 10.33 | LOCKING CABINETS - REF. SPEC.                            |
| 11.05 | REFRIGERATOR - PROVIDED BY OWNER AND INSTALLED BY G.C.   |
| 11.12 | MICROWAVE - PROVIDED BY OWNER AND INSTALLED BY G.C.      |
| 11.40 | KIOSK PROVIDED AND INSTALLED BY OWNER. PROVIDE BLOCKING. |
| 11.44 | PRINTER - PROVIDED AND INSTALLED BY OWNER.               |
| 11.46 | COFFEE POT - PROVIDED AND INSTALLED BY OWNER.            |
| 11.48 | COUNTERTOP ICE MAKER - PROVIDED AND INSTALLED BY OWNER.  |
| 26.11 | UNDER CABINET LIGHT - REF. ELEC.                         |











DOOR & FRAME SCHEDULE - EXISTING

| DOOR MARK | REMARKS                         |
|-----------|---------------------------------|
| E001      | PAINT, NEW HARDWARE, REF. SPEC. |
| E005      | PAINT, NEW HARDWARE, REF. SPEC. |
| E125      | PAINT                           |
| E126      | PAINT                           |
| E202      | NEW HARDWARE, REF. SPEC., WF-2  |
| E203      | NEW HARDWARE, REF. SPEC., WF-2  |
| E204      | NEW HARDWARE, REF. SPEC., WF-2  |
| E205      | NEW HARDWARE, REF. SPEC., WF-2  |
| E206      | NEW HARDWARE, REF. SPEC., WF-2  |
| E207      | NEW HARDWARE, REF. SPEC., WF-2  |
| E208      | NEW HARDWARE, REF. SPEC., WF-2  |
| E209      | NEW HARDWARE, REF. SPEC., WF-2  |
| E214      | NEW ACCESS CONTROL              |
| E216      | PAINT                           |
| E217      | WF-2                            |
| E222      | WF-2                            |
| E223      | WF-2                            |
| E224      | NEW HARDWARE, REF. SPEC.        |
| E225      | NEW HARDWARE, REF. SPEC.        |
| E226      | NEW HARDWARE, REF. SPEC.        |
| E227      | NEW HARDWARE, REF. SPEC.        |
| E228      | NEW HARDWARE, REF. SPEC.        |
| E229      | NEW HARDWARE, REF. SPEC.        |
| S104      | SALVAGE DOOR AND HARDWARE, WF-2 |
| S105      | SALVAGE DOOR AND HARDWARE, WF-2 |
| S106      | SALVAGE DOOR AND HARDWARE, WF-2 |
| S107      | SALVAGE DOOR AND HARDWARE, WF-2 |
| S110      | SALVAGE DOOR AND HARDWARE, WF-2 |
| S113      | SALVAGE DOOR AND HARDWARE       |
| S212      | SALVAGE DOOR AND HARDWARE, WF-2 |
| S218      | SALVAGE DOOR AND HARDWARE, WF-2 |
| S219      | SALVAGE DOOR AND HARDWARE, WF-2 |

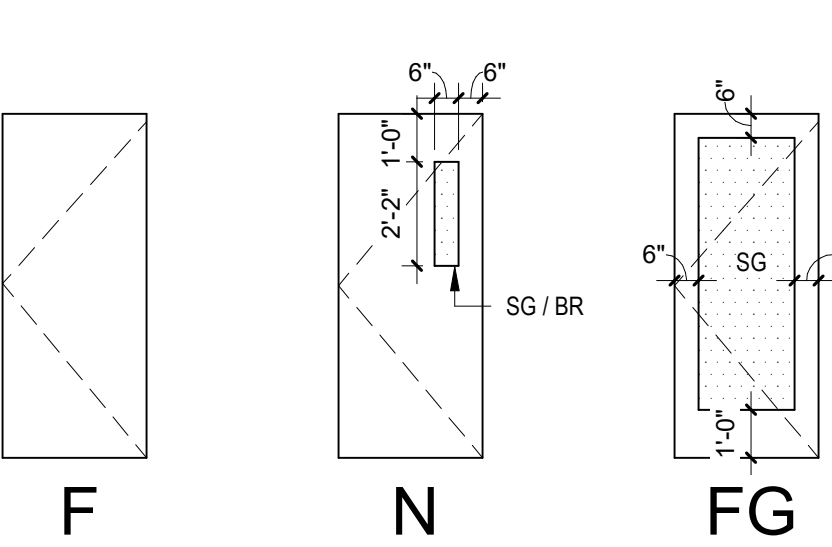
DOOR & FRAME SCHEDULE

| DOOR |       |        |          |      |       |         | FRAME  |          |       | DETAILS      |              |          |                                            | REMARKS |
|------|-------|--------|----------|------|-------|---------|--------|----------|-------|--------------|--------------|----------|--------------------------------------------|---------|
| MARK | WIDTH | HEIGHT | MATERIAL | TYPE | GLASS | FIRE    | DEPTH  | MATERIAL | TYPE  | JAMB         | HEAD         | SILL     |                                            |         |
| 101  | 3'-0" | 7'-2"  | HM       | FG   | CLR   | N.R.    | 5 7/8" | HM       | HM    | A - D1/A61.2 | B - D1/A61.2 | F7/A61.2 | ACCESS CONTROL<br>BR, WF-1, ACCESS CONTROL |         |
| 102A | 3'-0" | 7'-0"  | HM       | N    | BR    | N.R.    | 6 1/2" | HM       | HM    | A - F5/A61.2 | B - F5/A61.2 | F7/A61.2 |                                            |         |
| 102B | 3'-0" | 7'-0"  | WD       | F    | --    | N.R.    | 5 7/8" | HM       | HM    | A - F3/A61.2 | B - F3/A61.2 | F7/A61.2 | ACCESS CONTROL<br>BR, WF-1, ACCESS CONTROL |         |
| 103A | 3'-0" | 7'-0"  | HM       | N    | BR    | N.R.    | 6 1/2" | HM       | HM    | A - F5/A61.2 | B - F5/A61.2 | F7/A61.2 |                                            |         |
| 103B | 3'-0" | 7'-0"  | WD       | F    | --    | N.R.    | 5 7/8" | HM       | HM    | A - F3/A61.2 | B - F3/A61.2 | F7/A61.2 | ACCESS CONTROL<br>WF-2                     |         |
| 108  | 3'-0" | 7'-0"  | WD       | N    | CLR   | N.R.    | 5 7/8" | HM       | HM    | A - F3/A61.2 | B - F3/A61.2 | F7/A61.2 |                                            |         |
| 109  | 3'-0" | 7'-0"  | WD       | F    | --    | N.R.    | 5 7/8" | HM       | HM    | A - F3/A61.2 | B - F3/A61.2 | F7/A61.2 | WF-2                                       |         |
| 111  | 3'-0" | 7'-0"  | WD       | F    | --    | N.R.    | 5 7/8" | HM       | HM    | A - F3/A61.2 | B - F3/A61.2 | F7/A61.2 |                                            |         |
| 112  | 3'-0" | 7'-0"  | WD       | F    | --    | N.R.    | 5 7/8" | HM       | HM    | A - F3/A61.2 | B - F3/A61.2 | F7/A61.2 | WF-2                                       |         |
| 114  | 3'-0" | 7'-0"  | WD       | F    | --    | N.R.    | 5 7/8" | HM       | HM    | A - F3/A61.2 | B - F3/A61.2 | F7/A61.2 |                                            |         |
| 115  | 3'-0" | 7'-0"  | WD       | F    | --    | N.R.    | 5 7/8" | HM       | HM    | A - F3/A61.2 | B - F3/A61.2 | F7/A61.2 | WF-2                                       |         |
| 116  | 3'-0" | 7'-0"  | WD       | F    | --    | N.R.    | 5 7/8" | HM       | HM    | A - F3/A61.2 | B - F3/A61.2 | F7/A61.2 |                                            |         |
| 117  | 6'-0" | 7'-0"  | HM       | F    | --    | N.R.    | 6"     | HM       | HM    | A - F3/A61.2 | B - F3/A61.2 | F7/A61.2 | ACCESS CONTROL<br>ACCESS CONTROL           |         |
| 119A | 3'-0" | 7'-0"  | AL       | FG   | CLR   | N.R.    | 4 1/2" | AL       | AL-02 | B3/A61.2     | A3/A61.2     | F7/A61.2 |                                            |         |
| 119B | 3'-0" | 7'-0"  | HM       | F    | --    | N.R.    | 6 1/2" | HM       | HM    | A - D1/A61.2 | B - D1/A61.2 | F7/A61.2 | WF-2                                       |         |
| 201  | 3'-0" | 7'-0"  | HM       | F    | --    | 45 MIN. | 7"     | HM       | HM    | A - F3/A61.2 | B - D1/A61.2 | F7/A61.2 |                                            |         |
| 210  | 3'-0" | 7'-0"  | WD       | N    | CLR   | N.R.    | 6"     | HM       | HM    | A - D1/A61.2 | B - D1/A61.2 | F7/A61.2 | WF-2                                       |         |
| 211  | 3'-0" | 7'-0"  | WD       | N    | CLR   | N.R.    | 6"     | HM       | HM    | A - D1/A61.2 | B - D1/A61.2 | F7/A61.2 |                                            |         |
| 215  | 3'-0" | 7'-0"  | WD       | N    | CLR   | N.R.    | 5"     | HM       | HM    | A - D1/A61.2 | B - D1/A61.2 | F7/A61.2 | WF-2                                       |         |
| 220  | 3'-0" | 7'-0"  | WD       | N    | CLR   | N.R.    | 6"     | HM       | HM    | A - D1/A61.2 | B - D1/A61.2 | F7/A61.2 |                                            |         |
| 230  | 3'-0" | 7'-0"  | WD       | N    | CLR   | N.R.    | 5 7/8" | HM       | HM    | A - F3/A61.2 | B - F3/A61.2 | F7/A61.2 | WF-2                                       |         |
| 231  | 3'-0" | 7'-0"  | WD       | N    | CLR   | N.R.    | 5 7/8" | HM       | HM    | A - F3/A61.2 | B - F3/A61.2 | F7/A61.2 |                                            |         |
| 232  | 3'-0" | 7'-0"  | WD       | N    | CLR   | N.R.    | 5 7/8" | HM       | HM    | A - F3/A61.2 | B - F3/A61.2 | F7/A61.2 | WF-2                                       |         |
| 233  | 3'-0" | 7'-0"  | WD       | N    | CLR   | N.R.    | 5 7/8" | HM       | HM    | A - F3/A61.2 | B - F3/A61.2 | F7/A61.2 |                                            |         |

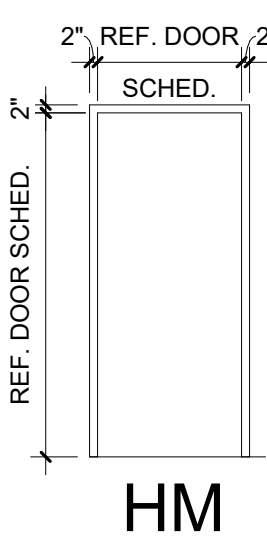
GENERAL NOTES

- DOOR & FRAME MATERIAL:
- GLAZING MATERIAL:
- AL - ALUMINUM  
HM - HOLLOW METAL  
WD - WOOD  
ST - STEEL  
SS - STAINLESS STEEL  
FRP - FIBERGLASS REINFORCED POLYMER
- IN - INSULATED  
LM - LAMINATED  
SG - SAFETY GLASS  
W - WIRE GLASS  
CLR - CLEAR GLASS  
BR - BULLET RESISTANT GLASS  
WF - WINDOW FILM
- ALL DOORS ARE UNDERCUT AS SPECIFIED.
  - SAFETY GLAZING LISTED IS REQUIRED ONLY IN LOCATIONS TO MEET CODE REQUIREMENTS EXCEPT WHEN SHOWN IN REMARKS COLUMN OR DRAWINGS.
  - DOOR DIMENSIONS REFER TO OPENING DIMENSIONS OF FRAME.
  - WOOD DOORS TO BE FACTORY FINISHED UNLESS NOTED OTHERWISE - REF. SPEC.
  - HOLLOW METAL DOORS TO BE PAINTED UNLESS NOTED OTHERWISE - REF. SPEC.
  - ALUMINUM DOORS, STOREFRONT AND CURTAIN WALL TO BE FACTORY FINISH UNLESS NOTED OTHERWISE - REF. SPEC.
  - FURNISH AND INSTALL ALUMINUM STOREFRONT OR CURTAIN WALL, FRAMES AND TRIM PER SPEC.
  - FIELD VERIFY ALL DIMENSIONS OF OPENINGS TO RECEIVE NEW STOREFRONT, CURTAIN WALL OR DOOR FRAMES PRIOR TO FABRICATION. SIZES SHOWN ARE FOR ESTIMATING PURPOSES AND DESIGN INTENT. ACTUAL CONDITIONS MAY VARY. ADJUST DIMENSIONS TO INCLUDE NECESSARY SHIMS, SEALANTS AND FLASHING. G.C. TO COMMUNICATE DIMENSIONAL DISCREPANCIES TO ARCHITECT PRIOR TO FABRICATION.
  - REPLACEMENT OF EXISTING WINDOW OR STOREFRONT:
    - KEEP DUST TO A MINIMAL AND CLEAN UP AFTER WORK IN THAT AFFECTED AREA'S UPON COMPLETION.
    - REPAIR ALL DAMAGED AREAS CAUSED BY WINDOW OR STOREFRONT REPLACEMENT INCLUDING (BUT NOT LIMITED TO) PLASTER OR GYP. BD. WALLS, WOOD TRIM, MILLWORK, CEILINGS, ETC. (VERIFY ALL EXISTING CONDITIONS PRIOR TO WORK).
    - FIELD VERIFY ALL DIMENSIONS OF EXISTING OPENINGS TO RECEIVE NEW WINDOWS OR STOREFRONT PRIOR TO FABRICATION.
    - CONTRACTOR SHALL REMOVE OLD UNITS AND INSTALL NEW WINDOW OR STOREFRONT UNITS IN THE SAME WORKING DAY.
  - REMOVE ALL SEALANT FROM EXISTING SURFACES AFTER EXISTING WINDOW IS REMOVED. PREP. AREA TO RECEIVE NEW WINDOW OR STOREFRONT.
  - G.C. TO VERIFY HARDWARE PREP IN EXISTING DOORS.

DOOR TYPES



FRAME TYPES



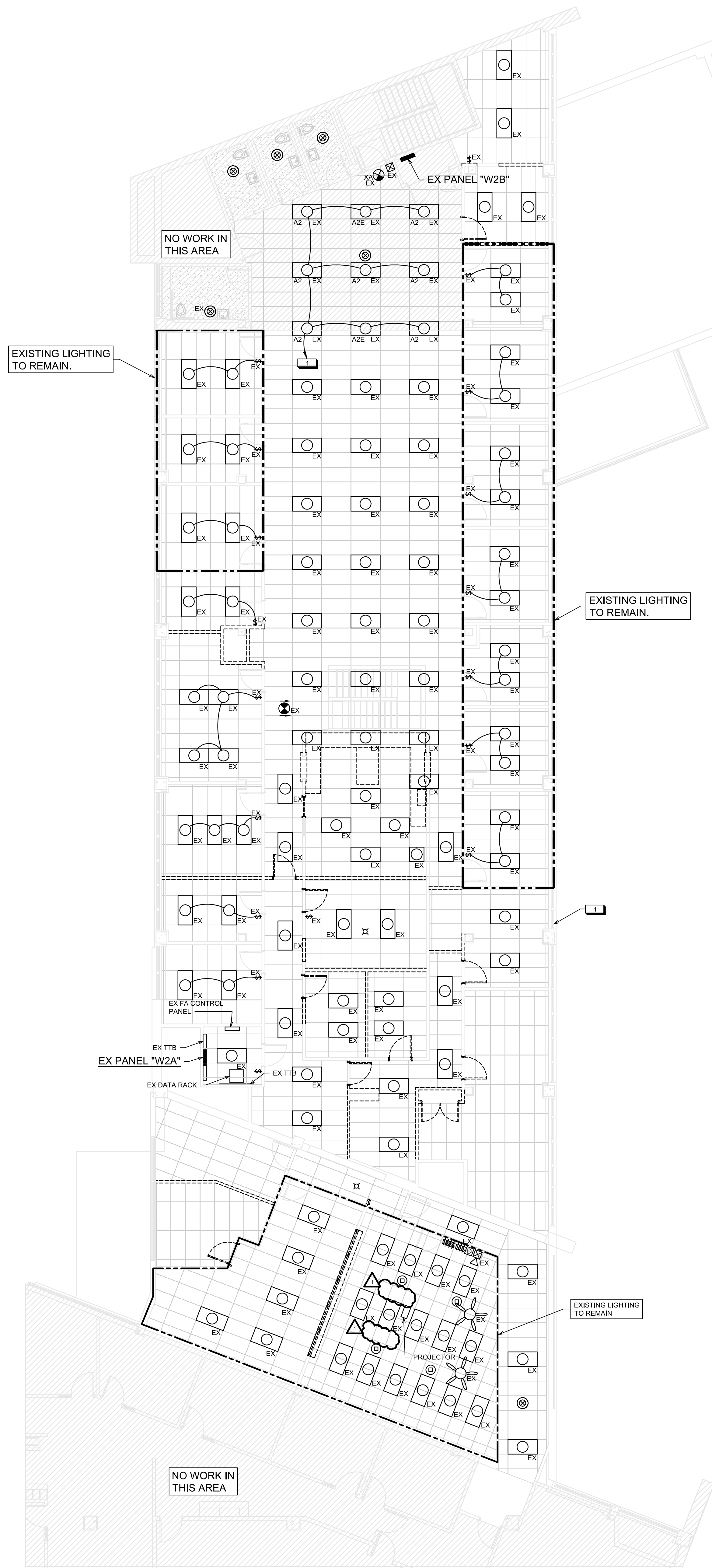
FINISH TYPES

|                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLASTIC LAMINATE - PL</b><br><div>MANUFACTURER: WILSONART<br/>PRODUCT: 7994-38<br/>COLOR: LOWELL ASH<br/>SIZE: -<br/>INSTALLATION: -<br/>LOCATION: CABINETS</div> <div>MANUFACTURER: WILSONART<br/>PRODUCT: 4944-38<br/>COLOR: CASUAL LINEN<br/>SIZE: -<br/>INSTALLATION: -<br/>LOCATION: COUNTER TOPS</div> | <b>PAINT - P</b><br><div>MANUFACTURER: SHERWIN WILLIAMS<br/>COLOR / NO.: SW 7037 BALANCED BEIGE<br/>FINISH: EG-SHEL<br/>LOCATION: FIELD</div> <div>MANUFACTURER: SHERWIN WILLIAMS<br/>COLOR / NO.: SW 7038 TONY TAUPE<br/>FINISH: EG-SHEL<br/>LOCATION: DOOR FRAMES</div>                                                  |
| <b>TILE FLOOR - TF</b><br><div>MANUFACTURER: DALTILE<br/>PRODUCT: PORTFOLIO<br/>COLOR: CHOCOLATE PF08<br/>SIZE: 6 INCH X 24 INCH<br/>INSTALLATION: STAGGERED BRICKWORK 1/3 OFFSET<br/>LOCATION: RESTROOMS</div>                                                                                                 | <b>EPOXY PAINT - EP</b><br><div>MANUFACTURER: SHERWIN WILLIAMS<br/>COLOR / NO.: SW 7037 BALANCED BEIGE<br/>FINISH: EG-SHEL<br/>LOCATION: RESTROOMS</div>                                                                                                                                                                   |
| <b>TILE BASE - TB</b><br><div>MANUFACTURER: DALTILE<br/>PRODUCT: PORTFOLIO<br/>COLOR: CHOCOLATE PF08<br/>SIZE: 6 INCH X 12 INCH<br/>INSTALLATION: -<br/>LOCATION: RESTROOMS</div>                                                                                                                               | <b>RESILIENT BASE - RB</b><br><div>MANUFACTURER: JOHNSONITE<br/>PRODUCT: 4"<br/>COLOR: 121 CEMENT<br/>SIZE: -<br/>INSTALLATION: -<br/>LOCATION: TRANSITIONS AND BASE THROUGHOUT</div>                                                                                                                                      |
| <b>TILE GROUT - TG</b><br><div>MANUFACTURER: TEC<br/>PRODUCT: POWER GROUT<br/>COLOR: 958 ESPRESSO<br/>SIZE: -<br/>INSTALLATION: -<br/>LOCATION: FLOOR GROUT</div>                                                                                                                                               | <b>CARPET - CPT</b><br><div>MANUFACTURER: MANNINGTON<br/>PRODUCT: MULTIPLEXER<br/>COLOR: RETROSCOPE 83638<br/>SIZE: -<br/>INSTALLATION: QUARTER-TURN<br/>LOCATION: -</div>                                                                                                                                                 |
| <b>TILE WALL - TW</b><br><div>MANUFACTURER: DALTILE<br/>PRODUCT: PORTFOLIO<br/>COLOR: CREAM PF07<br/>SIZE: 12 INCH X 24 INCH<br/>INSTALLATION: A.F.F. 5'-0" W/ SCHLUTER EDGE &amp; COVE BASE<br/>LOCATION: RESTROOMS</div>                                                                                      | <b>LUXURY VINYL TILE - LVT</b><br><div>MANUFACTURER: MANNINGTON<br/>PRODUCT: SPACIA WOOD<br/>COLOR: CLASSIC CHERRY SS5W2510<br/>SIZE: 6" x 36" 2.5 MM<br/>INSTALLATION: -<br/>LOCATION: -</div>                                                                                                                            |
| <b>FLUID APPLIED FLOORING - FAF</b><br><div>MANUFACTURER: REF. SPEC.<br/>PRODUCT: -<br/>COLOR: TBD<br/>SIZE: -<br/>INSTALLATION: -<br/>LOCATION: RESTROOMS</div>                                                                                                                                                | <b>WINDOW FILM - WF</b><br><div>MANUFACTURER: LLUMAR<br/>PRODUCT: PRIVACY FILM<br/>COLOR: RN07G SR<br/>SIZE: -<br/>INSTALLATION: -<br/>LOCATION: 102 SIDE OF AL-1</div> <div>MANUFACTURER: REF. SPEC.<br/>PRODUCT: SECURITY FILM<br/>COLOR: -<br/>SIZE: -<br/>INSTALLATION: -<br/>LOCATION: OFFICE AND MEETING ROOMS</div> |

PARTITION SCHEDULE

| TYPE MARK | GYPSUM BOARD      |                       |                                   |                       |             |                  | REMARKS                                                                                                 |
|-----------|-------------------|-----------------------|-----------------------------------|-----------------------|-------------|------------------|---------------------------------------------------------------------------------------------------------|
|           | METAL STUD        | LOCATION OF GYP BOARD | TYPE                              | SOUND BATT INSULATION | FIRE RATING | TOP OF WALL      |                                                                                                         |
| 1         | 7/8" HAT CHANNELS | ONE LAYER, ONE SIDE   | 5/8" "X"                          | -                     | N.R.        | 8" ABOVE CEILING |                                                                                                         |
| 1B        | 1 5/8"            | ONE LAYER, ONE SIDE   | 5/8" "X"                          | -                     | N.R.        | 8" ABOVE CEILING |                                                                                                         |
| 2         | 3 5/8"            | ONE LAYER, ONE SIDE   | 5/8" "X"                          | -                     | N.R.        | 8" ABOVE CEILING |                                                                                                         |
| 2C        | 3 5/8"            | ONE LAYER, BOTH SIDES | 5/8" "X"                          | -                     | N.R.        | 8" ABOVE CEILING |                                                                                                         |
| 2D        | 3 5/8"            | ONE LAYER, BOTH SIDES | 5/8" "X"                          | YES                   | N.R.        | TO DECK          | SEAL ALL PENETRATIONS INCLUDING HVAC, ELECTRICAL, AND ABOVE CEILING                                     |
| 2DB       | 3 5/8"            | ONE LAYER, BOTH SIDES | 1/2" "X", 1/2" "IMPACT RESISTANT" | YES                   | N.R.        | TO DECK          | IMPACT RESISTANT GYP BOARD OVER BULLET RESISTANT FIBERGLASS PANEL WHERE NOTED - REF FLOOR PLAN AND SPEC |
| 2DV       | 3 5/8"            | TWO LAYER, BOTH SIDES | 1/2" "X", 1/2" "IMPACT RESISTANT" | YES                   | N.R.        | TO DECK          | SEAL ALL PENETRATIONS INCLUDING HVAC, ELECTRICAL, AND ABOVE CEILING                                     |
| 2E        | 3 5/8"            | ONE LAYER, ONE SIDE   | 5/8" "X"                          | YES                   | N.R.        | TO DECK          |                                                                                                         |
| 2I        | 3 5/8"            | ONE LAYER, BOTH SIDES | 5/8" "X"                          | YES                   | N.R.        | 8" ABOVE CEILING |                                                                                                         |
| 3B        | 6"                | ONE LAYER, BOTH SIDES | 5/8" "X"                          | YES                   | N.R.        | 8" ABOVE CEILING | FIELD VERIFY WALL THICKNESS                                                                             |
| 3I        | 6"                | ONE LAYER, BOTH SIDES | 5/8" "X"                          | YES                   | N.R.        | 8" ABOVE CEILING | FIELD VERIFY WALL THICKNESS                                                                             |



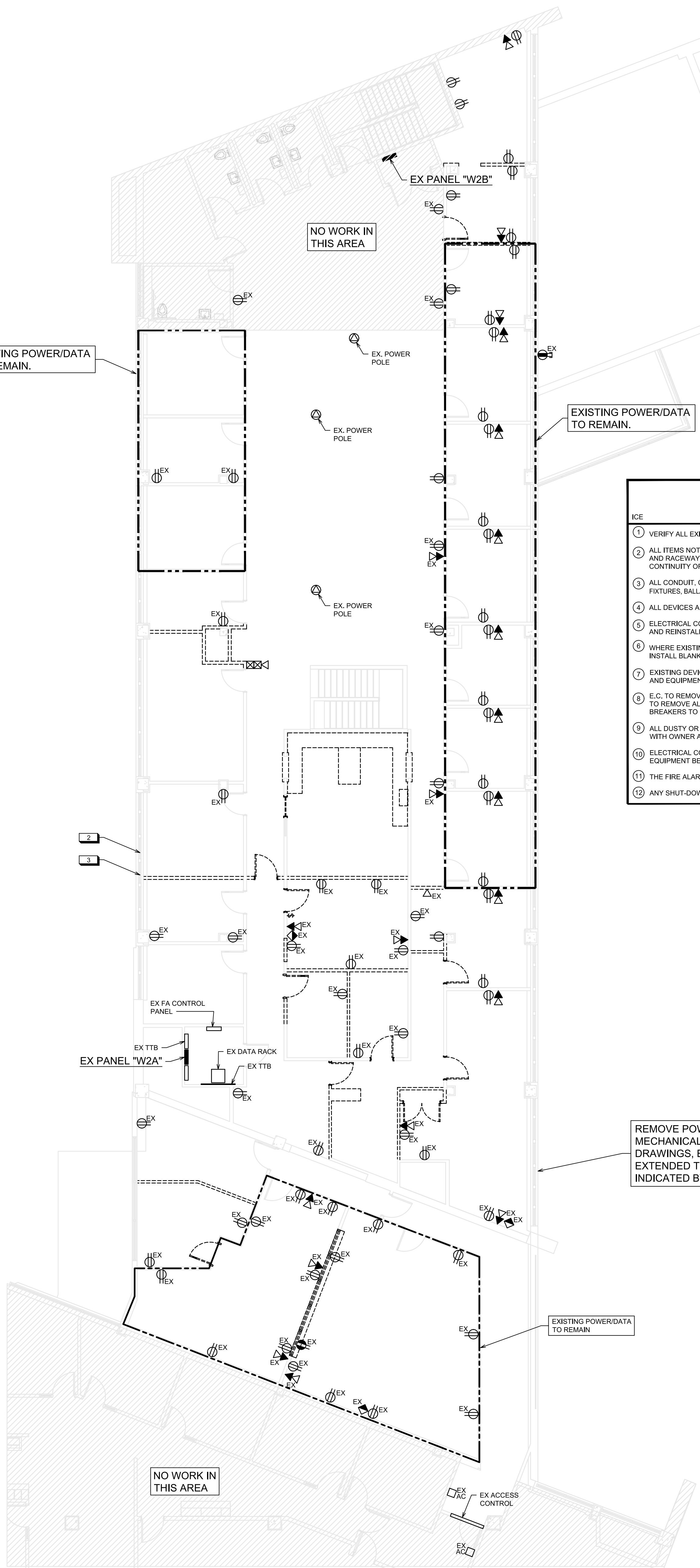


**B** 2ND FLOOR DEMOLITION PLAN - LIGHTING

0 4' 8' 16'

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

NORTH



**A** 2ND FLOOR DEMOLITION PLAN - POWER

0 4' 8' 16'

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

NORTH

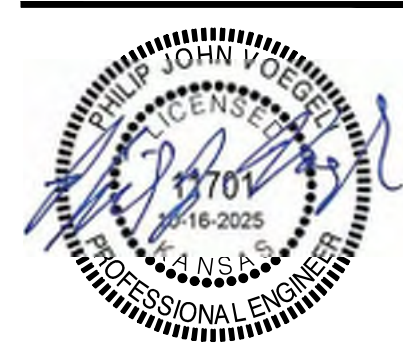
**DEMOLITION GENERAL NOTES**

ICE

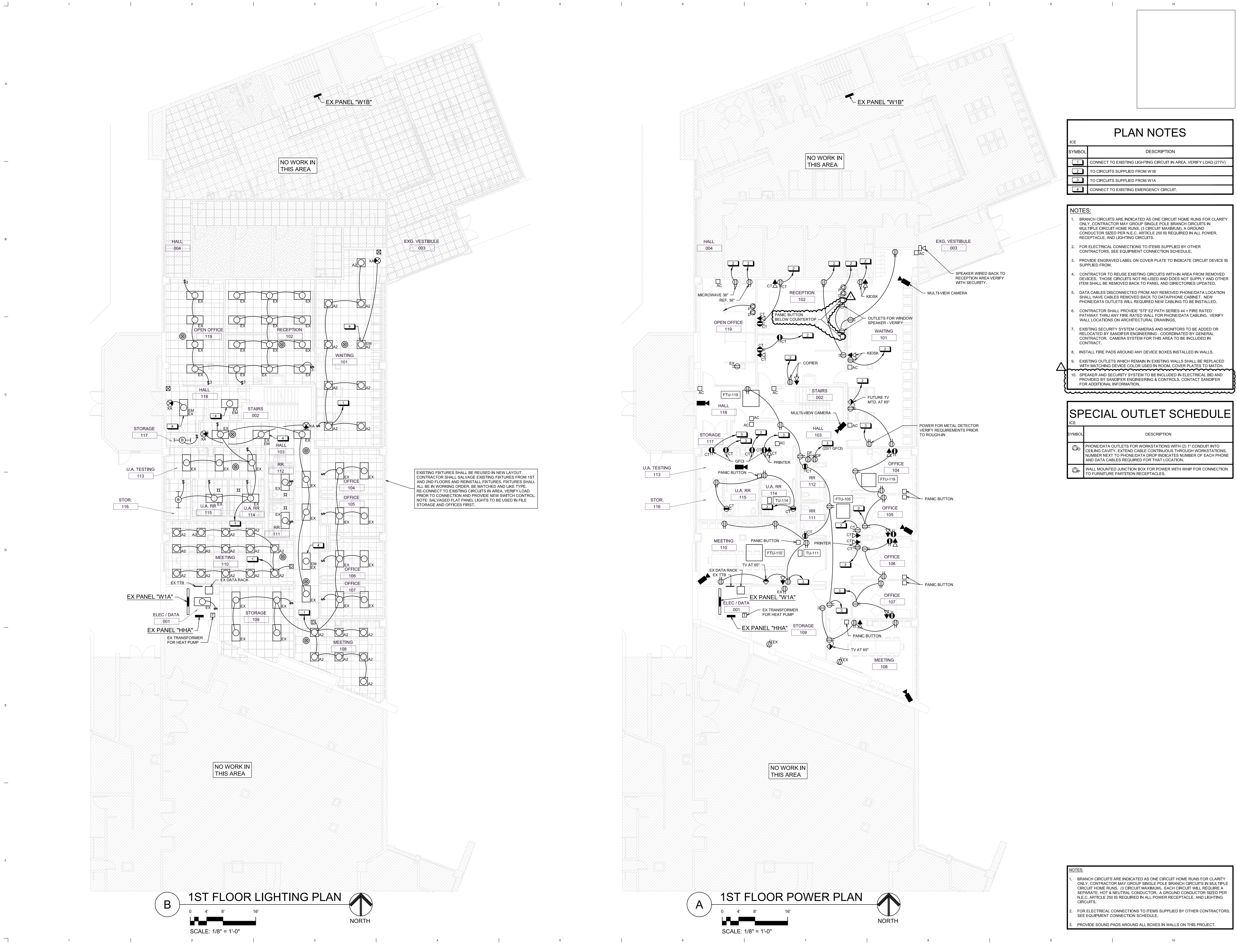
1. VERIFY ALL EXISTING CONDITIONS AT SITE.
2. ALL ITEMS NOTED TO BE REMOVED SHALL BE REMOVED COMPLETE BACK TO POINT OF SUPPLY INCLUDING CONDUCTORS AND EXPOSED LENGTHS OF CONDUIT AND RACEWAYS. ALL ITEMS TO REMAIN ON EXISTING CIRCUITS WHERE ITEMS ARE NOTED TO BE REMOVED SHALL BE RECONFIGURED AS REQUIRED TO MAINTAIN CONTINUITY OF CIRCUIT. MOUNTING HOLES, BLEMISHES, AND MISMATCHED PAINT TO BE RECTIFIED BY GENERAL CONTRACTOR.
3. ALL CONDUIT, CONDUCTORS, SWITCHES, RECEPTACLES, NOTED TO BE REMOVED SHALL BECOME CONTRACTOR SALVAGE, UNLESS NOTED OTHERWISE. ALL LIGHT FIXTURES, BALLASTS, FIRE ALARM DEVICES, CAMERAS, SPEAKERS, AND ELECTRICAL EQUIPMENT NOTED TO BE REMOVED SHALL BE RETURNED TO OWNER, UNLESS NOTED OTHERWISE.
4. ALL DEVICES AND LIGHT FIXTURES NOT NOTED OTHERWISE ON PLAN ARE TO REMAIN.
5. ELECTRICAL CONTRACTOR TO REMOVE COVER PLATES FOR ALL EXISTING DEVICES TO REMAIN IN REMODELED AREAS THAT WILL RECEIVE NEW WALL FINISHES AND REINSTALL COVER PLATES AFTER NEW WALL FINISHING IS COMPLETE.
6. WHERE EXISTING FLUSH MOUNTED DEVICES ARE NOTED TO BE REMOVED IN EXISTING WALLS TO REMAIN, REMOVE DEVICE, COVER PLATE, AND CONDUCTORS, AND INSTALL BLANK COVER PLATE OVER FLUSH OUTLET BOX.
7. EXISTING DEVICES WERE LOCATED FROM VISUAL OBSERVATION OF THE BUILDING. SOME DEVICES NOT READILY VISIBLE MAY EXIST BEHIND FURNITURE AND EQUIPMENT. ELECTRICAL CONTRACTOR SHALL REMOVE ALL DEVICES FROM ALL EXISTING WALLS TO BE REMOVED.
8. E.C. TO REMOVE ANY EXISTING ABOVE FLOOR TOMBSTONE DEVICES ON EXISTING UNDERFLOOR DUCT IN REMODELED AREAS. FILL HOLE WITH CEMENT. E.C. TO REMOVE ALL EXISTING CONDUCTORS IN EXISTING UNDERFLOOR DUCT IN REMODELED AREAS THAT ARE NOT ACTIVE CIRCUITS. TURN ALL SPARE CIRCUIT BREAKERS TO OFF POSITION.
9. ALL DUSTY OR HIGH NOISE LEVEL WORK (BOTH NEW AND DEMOLITION) SHALL BE SCHEDULED AFTER NORMAL WORKING HOURS. COORDINATE WITH OWNER AND ARCHITECT.
10. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW TYPE WRITTEN DIRECTORIES FOR ALL NEW DISTRIBUTION EQUIPMENT AND EXISTING DISTRIBUTION EQUIPMENT BEING REWORKED.
11. THE FIRE ALARM SYSTEM SHALL REMAIN INTACT AND OPERATIONAL DURING CONSTRUCTION. PROTECT ANY AREA SMOKE DETECTOR, OR MECH. UNIT DETECTORS.
12. ANY SHUT-DOWN OF ELECTRICAL POWER SHALL BE COORDINATED WITH THE OWNER.

| PLAN NOTES |                                                                                                                                                                                                                                                                                                                                                                  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SYMBOL     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                      |
| 1          | ALL FIXTURES WITHIN THIS AREA SHALL BE REMOVED AND REPLACED WITH NEW AS INDICATED ON SHEET E22.1 AND E22.2. REWORK SWITCHING AND CIRCUITING AS INDICATED. REMOVED FIXTURES SHALL BE REMOVED FROM SITE. EXISTING ELECTRICAL ITEMS IN CEILING SHALL BE REMOVED AND RELOCATED TO NEW CEILING. REFER TO NEW FIRE ALARM LAYOUT FOR NEW DEVICE ADDITION OR RELOCATION. |
| 2          | ELECTRICAL DEVICES NOT NOTED AS EXISTING OR MARKED AS EX. SHALL BE REMOVED. CIRCUITRY FROM REMOVED DEVICES SHALL REMAIN TO BE USED FOR NEW DEVICES BEING INSTALLED. SEE SHEET E22.1 AND E22.2. CIRCUITS THAT ARE NOT BEING USED SHALL BE REMOVED BACK TO THE POINT OF SUPPLY.                                                                                    |
| 3          | REMOVE EXISTING FAN TERMINAL BOX CIRCUIT TO BE USED FOR NEW TERMINAL BOXES.                                                                                                                                                                                                                                                                                      |

REMOVE POWER SUPPLY FROM EXISTING MECHANICAL AS INDICATED BY MECHANICAL DRAWINGS. EXISTING CIRCUITS TO BE EXTENDED TO NEW MECHANICAL UNITS AS INDICATED BY SCHEDULE.







| PLAN NOTES |                                                                  |
|------------|------------------------------------------------------------------|
| ICE        |                                                                  |
| SYMBOL     | DESCRIPTION                                                      |
| 1          | CONNECT TO EXISTING LIGHTING CIRCUIT IN AREA, VERIFY LOAD (277V) |
| 2          | TO CIRCUITS SUPPLIED FROM W1B                                    |
| 3          | TO CIRCUITS SUPPLIED FROM W1A                                    |
| 4          | CONNECT TO EXISTING EMERGENCY CIRCUIT.                           |

- NOTES:
- BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS FOR CLARITY ONLY. CONTRACTOR MAY GROUP SINGLE POLE BRANCH CIRCUITS IN MULTIPLE CIRCUIT HOME RUNS. (3 CIRCUIT MAXIMUM). A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL POWER, RECEPTACLE, AND LIGHTING CIRCUITS.
  - FOR ELECTRICAL CONNECTIONS TO ITEMS SUPPLIED BY OTHER CONTRACTORS. SEE EQUIPMENT CONNECTION SCHEDULE.
  - PROVIDE ENGRAVED LABEL ON COVER PLATE TO INDICATE CIRCUIT DEVICE IS SUPPLIED FROM.
  - CONTRACTOR TO REUSE EXISTING CIRCUITS WITH-IN AREA FROM REMOVED DEVICES. THOSE CIRCUITS NOT RE-USED AND DOES NOT SUPPLY AND OTHER ITEM SHALL BE REMOVED BACK TO PANEL AND DIRECTORIES UPDATED.
  - DATA CABLES DISCONNECTED FROM ANY REMOVED PHONE/DATA LOCATION SHALL HAVE CABLES REMOVED BACK TO DATA/PHONE CABINET. NEW PHONE/DATA OUTLETS WILL REQUIRED NEW CABLEING TO BE INSTALLED.
  - CONTRACTOR SHALL PROVIDE "STP" EZ PATH SERIES 44 • FIRE RATED PATHWAY THRU ANY FIRE RATED WALL FOR PHONE/DATA CABLEING. VERIFY WALL LOCATIONS ON ARCHITECTURAL DRAWINGS.
  - EXISTING SECURITY SYSTEM CAMERAS AND MONITORS TO BE ADDED OR RELOCATED BY SANDIFER ENGINEERING - COORDINATED BY GENERAL CONTRACTOR. CAMERA SYSTEM FOR THIS AREA TO BE INCLUDED IN CONTRACT.
  - INSTALL FIRE PADS AROUND ANY DEVICE BOXES INSTALLED IN WALLS.
  - EXISTING OUTLETS WHICH REMAIN IN EXISTING WALLS SHALL BE REPLACED WITH MATCHING DEVICE COLOR USED IN ROOM. COVER PLATES TO MATCH.
  - SPEAKER AND SECURITY SYSTEM TO BE INCLUDED IN ELECTRICAL BID AND PROVIDED BY SANDIFER ENGINEERING & CONTROLS. CONTACT SANDIFER FOR ADDITIONAL INFORMATION.

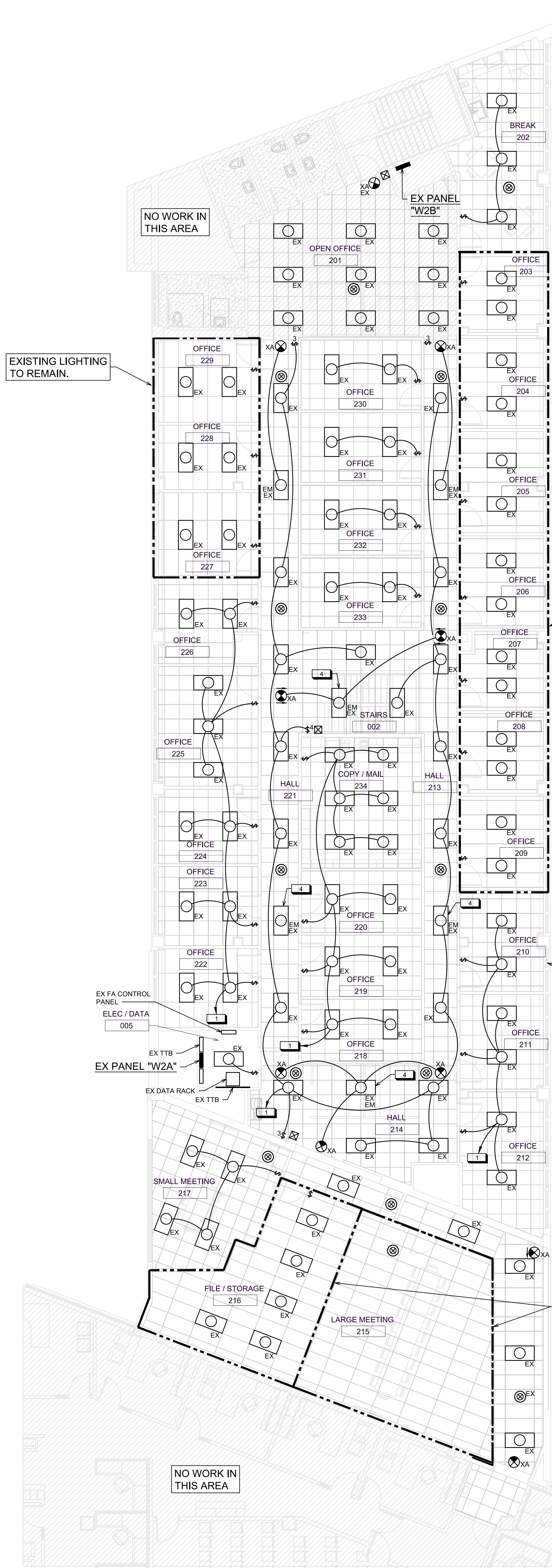
| SPECIAL OUTLET SCHEDULE |                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ICE                     |                                                                                                                                                                                                                                      |
| SYMBOL                  | DESCRIPTION                                                                                                                                                                                                                          |
| 1                       | PHONE/DATA OUTLETS FOR WORKSTATIONS WITH (2) 1" CONDUIT INTO CEILING CAVITY. EXTEND CABLE CONTINUOUS THROUGH WORKSTATIONS. NUMBER NEXT TO PHONE/DATA DROP INDICATES NUMBER OF EACH PHONE AND DATA CABLES REQUIRED FOR THAT LOCATION. |
| 2                       | WALL MOUNTED JUNCTION BOX FOR POWER WITH WHIP FOR CONNECTION TO FURNITURE PARTITION RECEPTACLES.                                                                                                                                     |



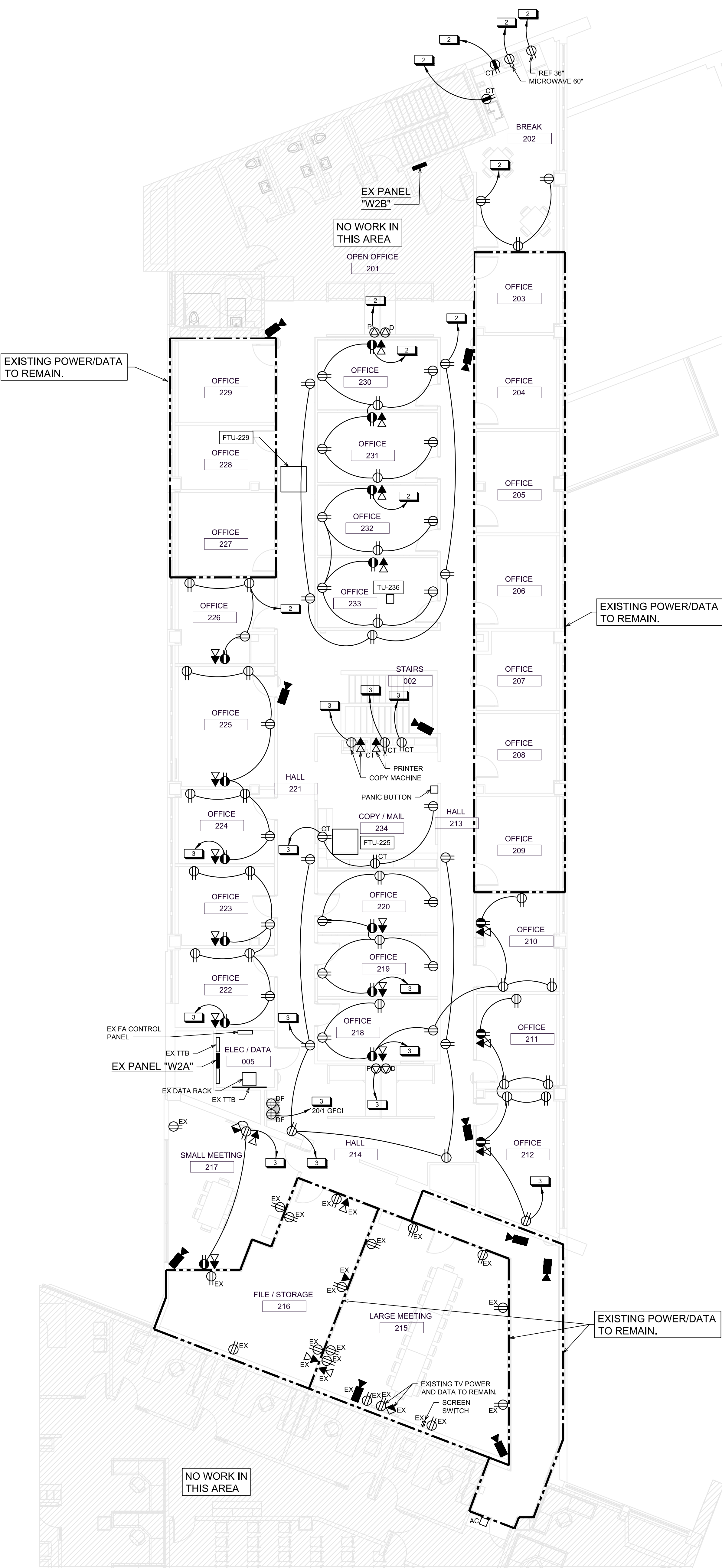
| REVISIONS |            |
|-----------|------------|
| AD 1      | 10.16.2025 |

| PROJECT NUMBER                    |  |
|-----------------------------------|--|
| 5278.50                           |  |
| DATE                              |  |
| 09.15.2025                        |  |
| 1ST FLOOR POWER AND LIGHTING PLAN |  |





**B 2ND FLOOR LIGHTING PLAN**  
SCALE: 1/8" = 1'-0"  
NORTH



**A 2ND FLOOR POWER PLAN**  
SCALE: 1/8" = 1'-0"  
NORTH

| PLAN NOTES |                                                                   |
|------------|-------------------------------------------------------------------|
| SYMBOL     | DESCRIPTION                                                       |
| 1          | CONNECT TO EXISTING LIGHTING CIRCUIT IN AREA. VERIFY LOAD (277V). |
| 2          | TO CIRCUITS SUPPLIED FROM W2B                                     |
| 3          | TO CIRCUITS SUPPLIED FROM W2A                                     |
| 4          | CONNECT TO EXISTING EMERGENCY CIRCUIT.                            |

- NOTES:**
- BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS FOR CLARITY ONLY. CONTRACTOR MAY GROUP SINGLE POLE BRANCH CIRCUITS IN MULTIPLE CIRCUIT HOME RUNS. (3 CIRCUIT MAXIMUM). A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL POWER, RECEPTACLE, AND LIGHTING CIRCUITS.
  - FOR ELECTRICAL CONNECTIONS TO ITEMS SUPPLIED BY OTHER CONTRACTORS, SEE EQUIPMENT CONNECTION SCHEDULE.
  - PROVIDE ENGRAVED LABEL ON COVER PLATE TO INDICATE CIRCUIT DEVICE IS SUPPLIED FROM.
  - CONTRACTOR TO REUSE EXISTING CIRCUITS WITHIN AREA FROM REMOVED DEVICES. THOSE CIRCUITS NOT RE-USED AND DOES NOT SUPPLY AND OTHER ITEM SHALL BE REMOVED BACK TO PANEL AND DIRECTORIES UPDATED.
  - DATA CABLES DISCONNECTED FROM ANY REMOVED PHONE/DATA LOCATION SHALL HAVE CABLES REMOVED BACK TO DATA/PHONE CABINET. NEW PHONE/DATA OUTLETS WILL REQUIRE NEW CABLING TO BE INSTALLED.
  - CONTRACTOR SHALL PROVIDE "STP" EZ PATH SERIES 44 + FIRE RATED PATHWAY THRU ANY FIRE RATED WALL FOR PHONE/DATA CABLING. VERIFY WALL LOCATIONS ON ARCHITECTURAL DRAWINGS.
  - EXISTING SECURITY SYSTEM CAMERAS AND MONITORS TO BE ADDED OR RELOCATED BY SANDIFER ENGINEERING - COORDINATED BY GENERAL CONTRACTOR. CAMERA SYSTEM FOR THIS AREA TO BE INCLUDED IN CONTRACT.
  - INSTALL FIRE PADS AROUND ANY DEVICE BOXES INSTALLED IN WALLS.
  - EXISTING OUTLETS WHICH REMAIN IN EXISTING WALLS SHALL BE REPLACED WITH MATCHING DEVICE COLOR USED IN ROOM. COVER PLATES TO MATCH.
  - SPEAKER AND SECURITY SYSTEM TO BE INCLUDED IN ELECTRICAL BID AND PROVIDED BY SANDIFER ENGINEERING & CONTROLS. CONTACT SANDIFER FOR ADDITIONAL INFORMATION.

| SPECIAL OUTLET SCHEDULE |                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SYMBOL                  | DESCRIPTION                                                                                                                                                                                                                          |
| 1                       | PHONE/DATA OUTLETS FOR WORKSTATIONS WITH (2) 1" CONDUIT INTO CEILING CAVITY. EXTEND CABLE CONTINUOUS THROUGH WORKSTATIONS. NUMBER NEXT TO PHONE/DATA DROP INDICATES NUMBER OF EACH PHONE AND DATA CABLES REQUIRED FOR THAT LOCATION. |
| 2                       | WALL MOUNTED JUNCTION BOX FOR POWER WITH WHIP FOR CONNECTION TO FURNITURE PARTITION RECEPTACLES.                                                                                                                                     |

- NOTES:**
- BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS FOR CLARITY ONLY. CONTRACTOR MAY GROUP SINGLE POLE BRANCH CIRCUITS IN MULTIPLE CIRCUIT HOME RUNS. (3 CIRCUIT MAXIMUM). EACH CIRCUIT WILL REQUIRE A SEPARATE HOT & NEUTRAL CONDUCTOR. A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL POWER RECEPTACLE, AND LIGHTING CIRCUITS.
  - FOR ELECTRICAL CONNECTIONS TO ITEMS SUPPLIED BY OTHER CONTRACTORS, SEE EQUIPMENT CONNECTION SCHEDULE.
  - PROVIDE SOUND PADS AROUND ALL BOXES IN WALLS ON THIS PROJECT.

