

**DOCUMENT 00 90 00**  
**ADDENDUM**

**ADDENDUM NO. [1]**                      **Date: April 14, 2022**

**RE:                      CHEQUAMEGON SCHOOL DISTRICT**  
**SECURE ENTRY IMPROVEMENTS**  
**PARK FALLS ELEMENTARY**  
**CHEQUAMEGON HIGH SCHOOL**  
**CHEQUAMEGON NORTH CAMPUS**  
**HSR PROJECT NO. 21060**

**FROM:                  HSR Associates, Inc**  
**100 Milwaukee Street**  
**La Crosse, WI 54603**  
**(608) 784-1830**

**To:                      Prospective Bidders**

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated April 2022. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of [2] pages, [4] specification sections, and [6] 30 x 42 drawings.

**CHANGES TO SPECIFICATIONS:**

1. Section 04 20 00 UNIT MASONRY
  - a. Revised section attached hereto.
  - b. Added sub-paragraph 3.12 C to add requirements for patching masonry at new openings.
2. Section 08 71 00 FINISH HARDWARE
  - a. Revised section attached hereto.
  - b. Revised Hardware Group #4.
3. Section 09 30 00 Tiling
  - a. New section attached hereto.
  - b. Revised paragraph 2.01 Tile to identify the required tile products.
  - c. Revised paragraph 2.03 Grouts to identify the existing products to match and add Bostik product.
4. Section 09 51 00 ACOUSTICAL CEILINGS
  - a. Revised section attached hereto.
  - b. Revised Paragraph 2.02 to remove ACT-1 and revise the product for ACT-2.

**CHANGES TO DRAWINGS**

5. Sheet A100 HS FLOOR PLANS SEGMENT A
  - a. Revised 30 x 42 sheet attached hereto.
  - b. See clouded changes.
6. Sheet A102 FLOOR PLANS – NORTH CAMPUS
  - a. Revised 30 x 42 sheet attached hereto.
  - b. See clouded changes.

7. Sheet A600 WALL TYPES, DOOR SCHEDULE, FINISHES
  - a. Revised 30 x 42 sheet attached hereto.
  - b. See clouded changes.
8. Sheet E100 ELECTRICAL PLANS – SEG. A
  - a. Revised 30 x 42 sheet attached hereto.
  - b. Relocated Aiphone and Aiphone console.
  - c. Added door operator push stations.
9. Sheet E101 ELECTRICAL PLANS – SEG. B
  - a. Revised 30 x 42 sheet attached hereto.
  - b. Delete card reader at vest. 203
10. Sheet E102 ELECTRICAL PLANS – NORTH CAMPUS
  - a. Revised 30 x 42 sheet attached hereto.
  - b. Delete Card readers and door contacts at vestibule N101.
  - c. Add door contact at Admin. N103.
  - d. Relocate Aiphone console.

**END OF DOCUMENT 00 90 00**

**SECTION 04 20 00**  
**UNIT MASONRY**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Concrete block.
- B. Reuse of clay facing brick.
- C. Mortar and grout.
- D. Reinforcement and anchorage.
- E. Flashings.
- F. Accessories.

**1.02 RELATED REQUIREMENTS**

- A. Section 04 05 11 - Mortar and Masonry Grout.
- B. Section 05 50 00 - Metal Fabrications: Loose steel lintels.
- C. Section 07 21 00 - Thermal Insulation: Insulation for cavity spaces.
- D. Section 07 21 19 - Foamed-in-Place Insulation: Expanding foam insulation in wall cavity.
- E. Section 07 92 00 - Joint Sealants: Sealing control and expansion joints.
- F. Section 08 11 13 Hollow Metal frames and Doors: Door frames installed in masonry openings to receive protective coating at inside surfaces.

**1.03 REFERENCE STANDARDS**

- A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.
- B. ASTM A240/A240M - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications; 2016.
- C. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement; 2016.
- D. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire; 2009a (Reapproved 2014).
- E. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2015.
- F. ASTM A951/A951M - Standard Specification for Steel Wire for Masonry Joint Reinforcement; 2016.
- G. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2015.
- H. ASTM C5 - Standard Specification for Quicklime for Structural Purposes; 2010.
- I. ASTM C90 - Standard Specification for Loadbearing Concrete Masonry Units; 2016.
- J. ASTM C129 - Standard Specification for Nonloadbearing Concrete Masonry Units; 2014a.
- K. ASTM C144 - Standard Specification for Aggregate for Masonry Mortar; 2011.
- L. ASTM C150/C150M - Standard Specification for Portland Cement; 2016.
- M. ASTM C207 - Standard Specification for Hydrated Lime for Masonry Purposes; 2006 (Reapproved 2011).
- N. ASTM C270 - Standard Specification for Mortar for Unit Masonry; 2014a.
- O. ASTM C404 - Standard Specification for Aggregates for Masonry Grout; 2011.
- P. ASTM C476 - Standard Specification for Grout for Masonry; 2016.

- Q. ASTM C979/C979M - Standard Specification for Pigments for Integrally Colored Concrete; 2016.
- R. ASTM C1714/C1714M - Standard Specification for Preblended Dry Mortar Mix for Unit Masonry; 2016.
- S. BIA Technical Notes No. 7 - Water Penetration Resistance – Design and Detailing; 2005.
- T. BIA Technical Notes No. 28B - Brick Veneer/Steel Stud Walls; 2005.
- U. BIA Technical Notes No. 46 - Maintenance of Brick Masonry; 2005.
- V. TMS 402/602 - Building Code Requirements and Specification for Masonry Structures; 2016.
- W. UL (FRD) - Fire Resistance Directory; current edition.

#### **1.04 SUBMITTALS**

- A. See General Requirements for submittal procedures.
- B. Provide submittal transmittals that include all submittal items identified in each submittal group below.
- C. Review Submittals - Preparatory
  - 1. Product Data: Provide data for masonry units, fabricated wire reinforcement, mortar, and masonry accessories.
  - 2. Control Joint Drawings: Masonry Contractor and Project Coordinator shall review architectural and structural drawings showing proposed masonry control joints and brick expansion joints. Recommendations for any changes shall be submitted to A/E for review prior to start of Work.
- D. Review Submittals - Samples
  - 1. Provide sample of mortar for color match at each applicable location.
- E. Information Submittals - Preparatory
  - 1. Test Reports: Concrete masonry manufacturer's test reports for units with integral water repellent admixture.

#### **1.05 QUALITY ASSURANCE**

- A. Comply with provisions of ACI 530/530.1/ERTA, except where exceeded by requirements of Contract Documents.

#### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.

### **PART 2 PRODUCTS**

#### **2.01 CONCRETE MASONRY UNITS**

- A. Concrete Block: Comply with referenced standards and as follows:
  - 1. Size: Standard units with nominal face dimensions of 16 by 8 inches and nominal depths as indicated on drawings for specific locations.
  - 2. Special Shapes: Provide nonstandard blocks configured for corners.
    - a. Provide bullnose units for locations indicated on drawings.
  - 3. Load-Bearing Units: ASTM C90, normal weight.
    - a. Hollow block, as indicated.
    - b. Required compressive strength: 3250 psi.
  - 4. Nonloadbearing Units: ASTM C129.
    - a. Normal weight.

#### **2.02 BRICK UNITS**

- A. Salvage and reuse removed brick.



## 2.03 MORTAR AND GROUT MATERIALS

- A. At Contractor's option, mortar and grout may be field-mixed from packaged dry materials, made from factory premixed dry materials with addition of water only, or ready-mixed.
  - 1. Spec Mix, Inc. (licensed manufacturers only) using the same materials and proportions of material specified above.
  - 2. Licensed Manufacturers:
    - a. Minnesota: Twin City Concrete Products [800-642-3887], Amcon Block [320-251-6030], Mankato Brick [507-345-7200], Rochester Brick [507-252-1129], Standard Brick [218-628-2231].
    - b. Wisconsin: Twin City Concrete Products [800-642-3887], Quickrete Wisconsin [800-657-0789], Tews Company [800-686-8401].
  - 3. Material shall be delivered to jobsite in manufacturer's prepackaged bags indicating manufacturer's name, materials and proportions of materials.
  - 4. Use manufacturer's proprietary dispensing silo.
- B. Packaged Dry Material for Grout for Masonry: Premixed cementitious materials and dried aggregates; capable of producing grout of the specified strength in accordance with ASTM C476 with the addition of water only.
- C. Hydrated Lime: ASTM C207, Type S.
- D. Quicklime: ASTM C5.
- E. Mortar Aggregate: ASTM C144.
- F. Grout Aggregate: ASTM C404.
- G. Grout Strength:  $f'c$  3,000 psi
- H. Mortar for load bearing masonry: Type S.
- I. Masonry Sand: Shall be clean, sharp, free from loam, silt, vegetable matter, salts, and other injurious substances, and shall conform to ASTM C144. Sand is further subject to approval of the A/E, based on mortar color desired and obtainable by use of local sands readily available, and shall be from one source.
- J. Water: Clean and potable
- K. Mortar Color: Match existing adjacent mortar at facing brick walls
- L. Portland Cement: ASTM C150/C150M, Type I.
  - 1. Not more than 0.60 percent alkali.
  - 2. Hydrated Lime: ASTM C207, Type S.
  - 3. Mortar Aggregate: ASTM C144.
  - 4. Grout Aggregate: ASTM C404.
- M. Pigments for Colored Mortar: Pure, concentrated mineral pigments specifically intended for mixing into mortar and complying with ASTM C979/C979M. Use if required to match the existing adjacent construction.

## 2.04 REINFORCEMENT AND ANCHORAGE

- A. Manufacturers:
  - 1. Hohmann & Barnard, Inc: [www.h-b.com](http://www.h-b.com).
  - 2. Masonry Reinforcing Corporation of America: [www.wirebond.com](http://www.wirebond.com).
  - 3. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Reinforcing Steel: ASTM A615/A615M, Grade 60 (60,000 psi), deformed billet bars; galvanized.
- C. Single Wythe Joint Reinforcement: ASTM A951/A951M.
  - 1. Type: Ladder.
  - 2. Material: ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M, Class 3.

3. Size: 0.1483 inch side rods with 0.1483 inch cross rods; width as required to provide not less than 5/8 inch of mortar coverage on each exposure.
- D. Multiple Wythe Joint Reinforcement: ASTM A951/A951M.
1. Type: Ladder.
  2. Material: ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M, Class 3.Hohmann & Barnard, Inc: 230 Ladder Tri-Mesh
  3. Size: 0.1483 inch side rods with 0.1483 inch cross rods; width as required to provide not less than 5/8 inch of mortar coverage on each exposure.
- E. Strap Anchors: Bent steel shapes, 1-1/2 inch width, 0.105 inch thick, 24 inch length, with 1-1/2 inch long, 90 degree bend at each end to form a U or Z shape or with cross pins, hot dip galvanized to ASTM A153/A153M, Class B.
- F. Debonded Shear Anchor: 0.250-inch-thick metal rods formed to an assembly 9.5-inch long minimum, fitted with a plastic tube assembly that allows the rods to move in and out of tubes. Resists out of plane shear forces while allowing for in-plane movement of the masonry. Mill galvanized ASTM A653/A653M G60. Wire: ASTM A641/A641M (0.1 oz/ ft<sup>2</sup>).
1. Heckman; 353
  2. Hohmann Barnard; Slip-Set Stabilizer

## 2.05 FLASHINGS

- A. Metal Flashing Materials:
1. Stainless Steel Flashing: ASTM A666, Type 304, soft temper; 26 gauge, 0.0187 inch thick; finish 2B to 2D.
- B. Self Adhering Flashing: Type 304, ASTM A240/A240M stainless steel core with one uncoated (bare) stainless steel face (outward facing) with a butyl block co-polymer adhesive (inward facing).
1. Manufacturers:
    - a. Illinois Products, Inc.; IPCO Self-Adhesive Stainless Steel
    - b. STS Coatings, Inc.; Wall Guardian Self Adhering Stainless Steel Flashing
    - c. TK Products, Inc.; TK Self-Adhering Stainless Steel TWF
    - d. Vapro Shield, Inc.; VaproThru-Wall Flashing SA
    - e. York: 304 Self Adhered Flexible Stainless Steel Flashing. [www.yorkmfg.com](http://www.yorkmfg.com)
    - f. Substitutions: See Section 01 60 00 - Product Requirements.
- C. Flashing Sealant/Adhesive: Butyl type as specified in Section 07 92 00.
- D. Termination Bars: Stainless steel; compatible with membrane and adhesives.

## 2.06 ACCESSORIES

- A. Preformed Control Joints (compressible filler): Neoprene or rubber material. Provide with corner and tee accessories, fused joints.
1. Manufacturers:
    - a. Dur-O-Wal: [www.dur-o-wal.com](http://www.dur-o-wal.com).
    - b. Hohmann & Barnard, Inc: [www.h-b.com](http://www.h-b.com).
    - c. WIRE-BOND: [www.wirebond.com/#sle](http://www.wirebond.com/#sle).
    - d. BoMetals, Inc.: [www.bometals.com](http://www.bometals.com)
    - e. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Joint Filler: Closed cell polyurethane; oversized 50 percent to joint width; self-expanding.
- C. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials.

## 2.07 MORTAR AND GROUT MIXING

- A. Mortar for Unit Masonry: ASTM C270, using the Proportion Specification.
1. Masonry: Type S.
- B. Conventional Job Mixed Mortar in accordance with ASTM C270: Measure materials for mortars by volume, in a manner whereby proportions can be controlled within two percent. Mix materials dry and then water to bring to proper consistency for use. Mix materials in the

approved type machine mixer of adequate capacity for 3 to 5 minutes after all materials have been introduced, until materials are evenly distributed throughout the batch and the mixture is uniform in color with a workable consistency.

- C. Silo Metered and Bulk Container Mortar: Shall comply with ASTM C1714/C1714M. Use materials specified hereinbefore and proportion mixes as specified hereinafter. Add water and mix according to system manufacturer's recommendations.
- D. Maintain sand uniformly damp immediately before the mixing process.
- E. Colored Mortar: Proportion selected pigments and other ingredients to match Architect's sample, without exceeding manufacturer's recommended pigment-to-cement ratio.
- F. Admixtures: Add to mixture at manufacturer's recommended rate and in accordance with manufacturer's instructions; mix uniformly.
- G. If water is lost by evaporation, re-temper only within two hours of mixing.
- H. Use mortar within two hours after mixing at temperatures of 90 degrees F, or two-and-one-half hours at temperatures under 40 degrees F.

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

- A. Verify that field conditions are acceptable and are ready to receive masonry.
- B. Verify that related items provided under other sections are properly sized and located.
- C. Verify that built-in items are in proper location, and ready for roughing into masonry work.

#### **3.02 PREPARATION**

- A. Direct and coordinate placement of metal anchors supplied for installation under other sections.
- B. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.
- C. Coordinate with steel erection the application of bituminous coating to columns exposed to masonry cavities or surrounded with masonry.
  - 1. At columns exposed in cavity walls or surrounded with masonry and having a cavity in the masonry, coat column with protective coating a minimum 24 inches above grade.
- D. Coat inside of hollow metal frames to be grouted with protective coating.

#### **3.03 COLD AND HOT WEATHER REQUIREMENTS**

- A. Comply with requirements of ACI 530/530.1/ERTA or applicable building code, whichever is more stringent.

#### **3.04 COURSING**

- A. Establish lines, levels, and coursing indicated. Protect from displacement.
- B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
- C. Concrete Masonry Units:
  - 1. Bond: Running, unless noted otherwise.
  - 2. Coursing: One unit and one mortar joint to equal 8 inches.
  - 3. Mortar Joints: Concave.
- D. Brick Units:
  - 1. Bond: Running - Set to match the existing adjacent construction.
  - 2. Mortar Joints: Concave.
  - 3. Head joints shall receive full bed of mortar.

#### **3.05 PLACING AND BONDING**

- A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.
- B. Lay hollow masonry units with face shell bedding on head and bed joints.

- C. Buttering corners of joints or excessive furrowing of mortar joints is not permitted.
- D. Face brick head joints shall receive a full bed of mortar.
- E. Remove excess mortar and mortar smears as work progresses.
- F. Interlock intersections and external corners.
- G. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.
- H. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.
- I. Cut mortar joints flush where wall tile is scheduled or resilient base is scheduled.

### **3.06 REINFORCEMENT AND ANCHORAGE - GENERAL, SINGLE WYTHE MASONRY, AND CAVITY WALL MASONRY**

- A. Unless otherwise indicated on drawings or specified under specific wall type, install horizontal joint reinforcement 16 inches on center.
- B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches each side of opening.
- C. Place continuous joint reinforcement in first and second joint below top of walls.
- D. Lap joint reinforcement ends minimum 6 inches.
- E. Reinforce stack bonded unit joint corners and intersections with strap anchors 16 inches on center.
- F. Fasten anchors to structural framing and embed in masonry joints as masonry is laid. Unless otherwise indicated on drawings or closer spacing is indicated under specific wall type, space anchors at maximum of 36 inches horizontally and 24 inches vertically.

### **3.07 REINFORCEMENT AND ANCHORAGE - MASONRY VENEER**

- A. Masonry Back-Up (verify existing reinforcement is in place in existing walls as noted below or install as noted): Embed anchors to bond veneer at maximum 16 inches on center vertically and 24 inches on center horizontally. Place additional anchors at perimeter of openings and ends of panels, so maximum spacing of anchors is 8 inches on center.

### **3.08 MASONRY FLASHINGS**

- A. Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted.
  - 1. Extend flashings full width at such interruptions and at least 6 inches, minimum, into adjacent masonry or turn up flashing ends at least 1 inch, minimum, to form watertight pan at nonmasonry construction.
  - 2. Remove or cover protrusions or sharp edges that could puncture flashings.
  - 3. Seal lapped ends and penetrations of flashing before covering with mortar.
- B. Terminate flashing up 8 inches minimum on vertical surface of backing:
  - 1. Install vertical leg of flashing behind water-resistive barrier sheet over backing.
  - 2. Anchor vertical leg of flashing into backing with a termination bar and sealant.
  - 3. Apply cap bead of sealant on top edge of self-adhered flashing.
- C. Extend metal flashings through exterior face of masonry and terminate in an angled drip with hemmed edge.
  - 1. Base of wall thru-wall flashing shall have a hemmed edge set flush with face of wall.
- D. Support flexible flashings across gaps and openings with sloped mortar bed or other permanent means.
- E. Extend self adhering flashings to within 3/4 inch of exterior face of masonry and adhere to top of stainless steel angled drip with hemmed edge.
- F. Contractors Option: One piece prefinished metal through-wall flashing in lieu of 2 part fabric flashing/3 inch prefinished flashing.

- G. Lap end joints of flashings at least 6 inches, minimum, and seal watertight with flashing sealant/adhesive.

### **3.09 LINTELS**

- A. Install loose steel lintels as noted on plans over non-bearing wall openings, unless noted otherwise.
- B. At steel lintels install bond break under bearing portion of lintel.

### **3.10 CONTROL AND EXPANSION JOINTS**

- A. Do not continue horizontal joint reinforcement through control or expansion joints.
- B. Install preformed control joint device in continuous lengths. Seal butt and corner joints in accordance with manufacturer's instructions.
- C. Size control joints as indicated on drawings; if not indicated, 1/2 inch wide and deep.
- D. Form expansion joint as detailed on drawings.
- E. At brick expansion joints located off jambs of openings, install a horizontal expansion joint off top corner of opening the length of fixed lintel bearing distance. Install bond break beneath lintel plate.

### **3.11 BUILT-IN WORK**

- A. As work progresses, install built-in metal door frames, glazed frames, and window frames and other items to be built into the work and furnished under other sections.
- B. Install built-in items plumb, level, and true to line.
- C. Bed anchors of metal door and glazed frames in adjacent mortar joints. Fill frame voids solid with mortar.
  - 1. Fill adjacent masonry cores with grout minimum 12 inches from framed openings.
- D. Do not build into masonry construction organic materials that are subject to deterioration.

### **3.12 CUTTING AND FITTING**

- A. Cut and fit for chases, pipes, conduit, sleeves, and grounds. Coordinate with other sections of work to provide correct size, shape, and location.
- B. Obtain approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.
- C. Patching at new openings and wall reconfigurations:
  - 1. At existing running bond tooth-in masonry units to provide jambs with un-broken finished surfaces.
  - 2. At existing stacked bond replace broken or exposed hollow core blocks with un-broken finished surfaces.

### **3.13 FIELD QUALITY CONTROL**

- A. An independent testing agency will perform field quality control tests, as specified in Section 01 40 00 - Quality Requirements.

### **3.14 CLEANING**

- A. Remove excess mortar and mortar droppings.
- B. Replace defective mortar. Match adjacent work.
- C. Clean soiled surfaces with cleaning solution as recommended by brick supplier. If no recommendation contact A/E for direction.
- D. Use non-metallic tools in cleaning operations.

### **3.15 PROTECTION**

- A. Without damaging completed work, provide protective boards at exposed external corners that are subject to damage by construction activities.

**END OF SECTION**

Page Intentionally Left Blank

## SECTION 08 71 00

### FINISH HARDWARE

#### PART 1: GENERAL

##### 1.01 RELATED DOCUMENTS

- A. Conditions of the Contract and portions of Division One of this Project Manual apply to this Section as though repeated herein.

##### 1.02 WORK INCLUDED

- A. Furnish all finish hardware specified herein, listed in the hardware schedule, or required by the drawings.
- B. Where items of hardware are not definitely or correctly specified and are required for the intended service, such omission, error, or other discrepancy should be directed to the Architect prior to the bid date for clarification by addendum. Otherwise, furnish such items in the type and quantity established by this specification for the appropriate service intended.

##### 1.03 RELATED WORK

- A. Section 08 12 13 – Hollow Metal Frames.
- B. Section 08 14 16 – Flush Wood Doors.
- C. Division 26 – Electrical.

##### 1.04 REFERENCES

- A. A.D.A. - Americans with Disabilities Act.
- B. ANSI A117.1 - Specifications for making facilities accessible to physically handicapped people.
- C. NFPA 80 - Standards For Fire Doors and Windows.
- D. NFPA 101 - Life Safety Code.
- E. U.L. - Building Material Directory.
- F. D.H.I. - Recommended Locations for Architectural Hardware.
- G. Applicable State and Local Building Codes, including IBC2006.

##### 1.05 SUBMITTALS

- A. Submit five (5) copies of a detailed hardware schedule, vertical format. Prepare under the supervision of an AHC, registered Architectural Hardware Consultant, and under provisions of Division One.
  - 1. Itemize hardware in the sequence and format established by this specification.
  - 2. List and describe each opening separately. Include all doors with identical hardware, except hand, in a single heading. Include door number, room designations, degree of swing, and hand.

3. List related details. Include dimensions, door and frame material, and other considerations affecting hardware.
  4. List all hardware items to be supplied. Include manufacturer's name, quantity, product name, catalog number, size, finish, attachments, and related details where applicable.
  5. Resubmit five (5) copies of the corrected schedule when required.
- B. Keying Schedule:** After receipt of approved hardware schedule submit a copy of keying schedule as a result of a keying meeting between the Owner and the hardware supplier.
- C. Samples:** If so directed by the Architect, submit samples of finish hardware items for approval. Properly identify each sample as to make and number, and furnish in the specified finish.
- D. Templates:** Furnish a copy of approved hardware schedule, along with applicable templates for factory-prepared hardware to each door and frame fabricator.
- E. Electrical Hardware:** Submit electrical specifications and applicable information to the electrical contractor after receipt of the approved hardware schedule.
- F. Substitutions:** Submit under provisions of Division One. Provide detailed information and catalog cuts indicating the comparison to the specified hardware. If requested by the Architect, provide a sample accompanied by a sample of the specified item for comparison.

## **1.06 QUALITY ASSURANCE**

- A. Qualifications:**
1. Manufacturer: Except where specified in the hardware schedule, furnish products of only one manufacturer for each type of hardware.
  2. Supplier Pre-qualification: Supplier meeting the parameters listed below shall prequalify with the A/E prior to 10 days before bid date.
  3. Supplier: A company experienced in the builders' hardware industry for a minimum of two (2) years, and can call upon an AHC, registered Architectural Hardware Consultant, for consultation during the full extent of the project.
- B. Regulatory Requirements:**
1. Furnish UL or Warnock Hersey listed hardware for all fire labeled and 20 minute openings in conformance with requirements for class of opening scheduled, whether specifically called for in this specification or not.
  2. Furnish hardware that conforms to all applicable state and local building codes. Where specified hardware is not in conformance with applicable codes, such omission or error should be directed to the Architect prior to the bid date for clarification by addendum; otherwise furnish hardware as required by code.

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

- A.** Deliver, store and handle in accordance with Division One. Mark each original container with a door number that corresponds to the approved hardware schedule for the installation location.
- B.** Receive, inventory and store hardware in a secure and dry environment; protect against loss and damage.
- C.** Report any shortages to the hardware supplier no later than 48 hours after receipt of delivery to the job site.



- D. Stockpile items sufficiently in advance to ensure their availability. Coordinate delivery, handling, and installation of hardware items to ensure orderly progress of total work, and minimize or eliminate losses and damage.

## PART 2: PRODUCTS

### 2.01 ACCEPTABLE MANUFACTURERS

<u>Products</u>	<u>Specified</u>	<u>Acceptable</u>
Hinges	IVES	McKinney, Hager, Stanley
Locks and Latches	Schlage	NO SUB
Exits	VonDuprin	NO SUB
Door Closers	LCN	NO SUB
Auto operators	LCN	NO SUB
Protective Plates	Rockwood	Burns, Hager, Ives
Overhead Stops/ Holders	Glynn	ABH, Dorma,
Wall Stops/Floor Stops	Rockwood	Trimco, Hager, DCI, Ives
Electromagnetic Door Holders	LCN	Dorma, Rixson

### 2.02 HINGES

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>IVES</u>	<u>Stanley</u>	<u>McKinney</u>	<u>Hager</u>
Std. Wt. Plain Bearing - Steel	5PB1	F179	T2714	1279
Std. Wt. Ball Bearing - Steel	5BB1	FBB179	TA2714	BB1279
Std. Wt. Ball Bearing -non ferrous	5BB1	FBB191	TB2314	BB1191
Hvy. Wt. Ball Bearing Steel	5BB1HW	FBB168	T4B3786	BB1168
Hvy. Wt. Ball Bearing – non ferrous	4B21/4B51	FBB179	T4B3386	BB1199

- B. Hinges supplied must be tested and comply with ANSI/BHMA standards for consistency, wear and corrosion resistance.
- C. Quantity: Furnish hinges for each door leaf as follows, unless otherwise noted in groups:
1. Doors up to and including 90" high - 3 hinges.
  2. Doors over 90" high through 120" high - 4 hinges.
- D. Type: Furnish as follows, unless otherwise noted in groups:
1. Standard weight, plain bearing hinge for interior openings through 36" wide without a door closer.
  2. Standard weight, ball bearing hinge for interior openings over 36" through 40" wide with a door closer, and for interior openings through 40" wide with a door closer.
  3. Heavy weight, four ball bearing hinge for all exterior openings unless noted in groups.
- E. Size: Furnish as follows, unless otherwise noted in groups:
1. 1 3/4" doors: 4-1/2" x 4-1/2"
  2. Provide proper hinge width to clear trim and allow full 180° swing.
- F. Hinges for all lockable doors opening outward shall have non-removable pin (NRP). All other hinges shall have non-rising pins.

**2.03 LOCKS AND LATCHES**

A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>SCHLAGE</u>
Heavy Duty CYL	ND SERIES-RHO LEVERS

B. Furnish lock types and functions as specified in the hardware schedule, and as follows:

1. Provide 2-3/4" backset.
2. Provide 2-3/4" x 1-1/8" "T" strike with a dust box for use in wood doors or frames.
3. Provide 4-7/8" x 1-1/4" ANSI strike for installation in a hollow metal door or frame.
4. Locksets to conform to ANSI A156.2, Series 4000, Grade 1 and be UL listed.

**2.04 EXIT DEVICES**

A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>VONDUPRIN</u>
EXITS	99 SERIES

B. Furnish complete with mounting brackets, drop plates, spacers, special shoes, and thru bolts as may be required by the door and frame conditions.

**2.05 DOOR CLOSERS**

A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>LCN</u>
Heavy Duty Reg. Arm	4011 OR 4040
Heavy Duty Parallel Arm	4111 OR 4040
Heavy Duty Stop Arm	4111 OR 4040

B. Furnish complete with mounting brackets, drop plates, spacers, special shoes, and thru bolts as may be required by the door and frame conditions.

**2.06 PROTECTIVE PLATES**

A. Acceptable manufacturers: Rockwood, Trimco, Burns, Hager.

B. All kickplate heights shall be as listed in groups and 2" less door width single doors and 1" less for pairs.

C. Thickness shall be .050" (16 gauge).

**2.07 OVERHEAD STOPS/HOLDERS**

A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>A.B.H.</u>	<u>Dorma</u>	<u>Glynn Johnson</u>
Heavy Duty Surface	9000	900	90
Heavy Duty Concealed	1000	910	100
Standard Duty Surface	4400	700	450
Standard Duty Concealed	4000	710	410

- B. Furnish an overhead stop if a door opens against equipment, casework, sidelights, or other objects that would make wall bumpers inappropriate, and as specified in the hardware groups.

**2.08 WALL STOPS**

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>Rockwood</u>	<u>Hager</u>
Wrought Convex Wall	407	232W
Wrought Concave w/Toggle	409	237W

- B. When "wall stop" is called for in hardware group, provide 407 or 409. When overhead stops are required, they will be specified by product number in the group.
- C. Wall stops shall not be mounted to casework, cabinet work, sidelights, or equipment.

**2.09 ELECTROMAGNETIC DOOR HOLDERS**

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>LCN</u>	<u>Rixson</u>
Floor Mounted - Single	SEM7820	FM980
Floor Mounted - Double	----	FM981
Flush Wall Mount - Std. Catch Plate	SEM7850	FM998
Surface Wall Mount	SEM7830	FM996

- B. Provide the voltage as required by electrical.

**2.10 LOW ENERGY AUTOMATIC OPERATORS**

- A. Acceptable manufacturers and respective catalog numbers:

<u>Description</u>	<u>LCN</u>
Operator - Push Side	9540
Operator - Pull Side	9530
Wireless Wall Switch	8310-3860TW
Wireless Receiver	8310-865

- B. Provide arms, mounting plates, sizes, stops, and any component that may be necessary to interface with electrified hardware that are required for complete and proper operation of the openings affected. Completed installation must meet or exceed requirements of ANSI A159.19.
- C. Provide actuators as detailed in groups.
- D. Conduit, electrical back boxes, wiring, and 120 VAC input power by Division 16 - Electrical.

**2.11 DOOR HARDWARE FINISHES**

- A. Unless indicated otherwise in the groups provide finishes as follows:

1. Hinges, exterior:	US32D
2. Hinges, interior:	US26D
3. Flush Bolts:	US26D
4. Exit Devices:	US32D
5. Locks and Latches:	US26D
6. Pulls, Pushbars, Push/Pull:	US32D
7. Door Closers:	Painted Aluminum

- 8. Low Energy Automatic Operators: Painted Aluminum
- 9. Protective Plates: US32D
- 10. Overhead Stops: Painted Aluminum
- 11. Wall Stops: US32D
- 12. Gasket: Black
- 13. Thresholds: Mill Aluminum
- 14. Weatherstrip, Sweeps: Clear Anodized Aluminum

## 2.12 KEYING

- A. The Hardware Supplier, in consultation with the Owner's authorized representative, shall prepare a detailed keying schedule. A copy of the final approved keying schedule bearing the signature of approval of the Owner's Representative shall be filed with the Architect. All locks shall be keyed into the same system as is used on the existing building.

GLIDDEN CAMPUS =SCHLAGE C KWY,  
PARK FALLS ELEM AND HS US SCHLAGE PRIMUS C123

## PART 3: EXECUTION

### 3.01 EXAMINATION

- A. Examine doors, frames, and related items for conditions that would prevent the proper application of finish hardware. Do not proceed until defects are corrected.

### 3.02 INSTALLATION

- A. Install each hardware item in strict compliance with the manufacturer's printed instructions and recommendations, using only fasteners supplied by, or called for by the manufacturer.
- B. Set units level, plumb and true to the line and location. Prepare and reinforce the attachment substrate as necessary for proper installation and operation.
- C. Mortise and cut to close tolerance and conceal evidence of cutting in the finished work. Drill and countersink units which are not factory prepared for anchorage fasteners.
- D. If manufacturer's instructions do not call out a mounting location, refer to the Door and Hardware Institute's publication *Recommended Locations for Architectural Hardware*.
- E. Deliver to the Owner one (1) complete set of installation and adjustment instructions, as well as all tools that were furnished with the hardware.

### 3.03 ADJUSTMENT AND CLEANING

- A. At final completion, adjust and check each operating item of hardware at each door to ensure proper operation and function of every unit. Lubricate any moving parts that do not operate freely, smoothly, and quietly using only lubricant as recommended by the manufacturer of the hardware item. Replace units that cannot be adjusted or lubricated to operate properly.
- B. Instruct the Owner's personnel in the proper adjustments of the hardware as needed.
- C. Clean and restore hardware to the original finish.

### 3.04 HARDWARE SCHEDULE

#### FINISH HARDWARE SCHEDULE CHEQUAMEGON SCHOOL DISTRICT SECURE ENTRANCES

##### HARDWARE GROUP 1

EACH SINGLE DOOR TO HAVE:  
DR.103, N103

4 EA	HINGES	5BB1 4.5 X 4.5 652	IVES
1 EA	STORERM LOCK	ND80PD RHO 626	SCHLAGE
1 EA	ELECTRIC STRIKE	6400 US32D	VONDUPRIN
1 EA	CLOSER	4040XP SCUSH 689	LCN
1 EA	KICKPLATE	10 X 2LDW B4E CS US32D	ROCKWOOD
3 EA	SILENCERS	608RKW GREY	ROCKWOOD
1 EA	POWER SUPPLY	BY OTHERS	

DOOR TO BE LOCKED AT ALL TIMES UNLESS UNLOCKED BY PUSH BUTTON IN OFFICE AREA.  
NO CARD READER FOR THIS DOOR, ENTRY BY KEY UNLESS BUTTON IN OFFICE RELEASES  
DOOR.

##### HARDWARE GROUP 2

EACH SINGLE DOOR TO HAVE:  
DR.104

3 EA	HINGES	5BB1 4.5 X 4.5 652	IVES
1 EA	ENTRANCE LOCK	ND53PD RHO 626	SCHLAGE
1 EA	KICKPLATE	10 X 2LDW B4E CS US32D	ROCKWOOD
1 EA	WALL STOP	409 US32D	ROCKWOOD
3 EA	SILENCERS	608RKW GREY	ROCKWOOD

##### HARDWARE GROUP 3

EACH PAIR OF DOORS TO HAVE:  
DR.201

2 EA	CONTINUOUS HINGE	700 83" US32D	IVES
2 EA	PUSH PULL COMBO	BF15747 US32D	ROCKWOOD
2 EA	CLOSER	4040XP SHCUSH 689	LCN
1 EA	GASKET	F797B25	REESE
2 EA	ASTRAGAL FINS	S771D7	PEMKO

##### HARDWARE GROUP 4

EACH PAIR OF DOORS TO HAVE:  
DR.203.1/203.2,

2 EA	CONTINUOUS HINGE	700 83" US32D	IVES
1 EA	RIM EXIT DEVICES	99NL-OP X 110MD US26D	VONDUPRIN
1 EA	RIM EXIT DEVICES	99EO US26D	VONDUPRIN
1 EA	ELECTRIC STRIKE	6300 US32D	VONDUPRIN
1 EA	RIM CYLINDERS	20-710 C123 626	SCHLAGE

2 EA	CLOSER	4040XP SCUSH 689	LCN
2 EA	GASKET	F797B19	REESE
1 EA	POWER SUPPLY TO BE POWERED BY AIPHONE SYSTEM X OTHERS		

**DOOR 203.2 TO BE CONTROLLED BY AIPHONE SYSTEM**

**HARDWARE GROUP 5**

EACH PAIR OF ALUM DOORS TO HAVE:  
DR.N101.1/N101.2, N101.4/N101.5

2 EA	CONTINUOUS HINGE	BY ALUM DR/FR SUPPLIER	
1 EA	RIM EXIT DEVICES	99NL-OP X 110MD US26D	VONDUPRIN
1 EA	RIM EXIT DEVICES	99EO US26D	VONDUPRIN
2 EA	OFFSET PULLS	BF157 US32D	ROCKWOOD
1 EA	RIM CYLINDERS	20-710 C123 626	SCHLAGE
1 EA	ELECTRIC STRIKE	6300 US32D	VONDUPRIN
1 EA	CLOSER	4040XP SCUSH 689	LCN
1 EA	DROP PLATE	4040XP-18 689	LCN
1 EA	BLADE SPACER	4040XP-30 689	LCN
1 EA	CUSH SHOE SUPPORT	4040XP-61 689	LCN
1 EA	AUTO OPERATOR	9542 REG 689	LCN
1 EA	ACTUATOR PACKAGE	8310-3860TW	LCN
1 EA	RECIEVER	8310-865	LCN
1 EA	ON/OFF SWITCH	8310-806R	LCN
1 EA	THRESHOLD	S425	REESE
1 EA	SWEEPS/WEATHERSTRIP	BY ALUM DR/FR SUPPLIER	

**HARDWARE GROUP 6**

EACH PAIR OF ALUM DOORS TO HAVE:  
DR.N101.3, N101.6

2 EA	CONTINUOUS HINGE	BY ALUM DR/FR SUPPLIER	
2 EA	RIM EXIT DEVICES	99EO US26D	VONDUPRIN
1 EA	KEYED REMOVABLE MULLION	KR4954 SP28	VONDUPRIN
2 EA	OFFSET PULLS	BF157 US32D	ROCKWOOD
1 EA	MORTISE CYL (KEYED MULL)	20-703 C123 626	SCHLAGE
2 EA	CLOSER	4040XP SCUSH 689	LCN
2 EA	DROP PLATE	4040XP-18 689	LCN
2 EA	BLADE SPACER	4040XP-30 689	LCN
2 EA	CUSH SHOE SUPPORT	4040XP-61 689	LCN
1 EA	THRESHOLD	S425	REESE
1 EA	SWEEPS/WEATHERSTRIP	BY ALUM DR/FR SUPPLIER	

**END OF SECTION 08 71 00**

**SECTION 09 30 00**  
**TILING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Tile for floor applications.
- B. Sealant at tile control joints.

**1.02 RELATED REQUIREMENTS**

- A. Section 04 20 00 - Unit Masonry: CMU joints struck flush at wall tile locations.
- B. Section 07 92 00 - Joint Sealants: Sealing joints between tile work and adjacent construction and fixtures.

**1.03 REFERENCE STANDARDS**

- A. ANSI A108/A118/A136 - American National Standard Specifications for the Installation of Ceramic Tile (Compendium); 2017.
  - 1. ANSI A108.10 - American National Standard Specifications for Installation of Grout in Tilework; 1999 (Reaffirmed 2010).
  - 2. ANSI A108.13 - American National Standard for Installation of Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone; 2005 (Reaffirmed 2010).
  - 3. ANSI A108.19 - American National Standard Specifications for Interior Installation of Gauged Porcelain Tiles and Gauged Porcelain Tile Panels/Slabs by the Thin-Bed Method Bonded with Modified Dry-Set Cement Mortar or Improved Modified Dry-Set Cement Mortar; 2017.
  - 4. ANSI A118.7 - American National Standard Specifications for High Performance Cement Grouts for Tile Installation; 2010 (Revised).
  - 5. ANSI A118.12 - American National Standard Specifications for Crack Isolation Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation; 2014.
  - 6. ANSI A118.15 - American National Standard Specifications for Improved Modified Dry-Set Cement Mortar; 2012.
  - 7. ANSI A137.1 - American National Standard Specifications for Ceramic Tile; 2013.1.
  - 8. ASTM C373 - Standard Test Method for Water Absorption, Bulk Density, Apparent Porosity, and Apparent Specific Gravity of Fired Whiteware Products, Ceramic Tiles, and Glass Tiles; 2014a.
- B. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2011.
- C. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride; 2011.
- D. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes; 2011.
- E. TCNA (HB) - Handbook for Ceramic, Glass and Stone Tile Installation; 2019.

**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. Samples: Mount tile and apply grout on two plywood panels, minimum 12x12 inches in size illustrating pattern, color variations, and grout joint size variations for each tile specified.
- D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
- E. Maintenance Data: Include recommended cleaning methods, cleaning materials, and stain removal methods.

## 1.05 DEFINITIONS

- A. LHT- Large and heavy tile.
- B. Lippage- Condition of one edge of a tile is higher than the adjacent tile.

## 1.06 PERFORMANCE REQUIREMENTS

- A. Dynamic Coefficient of Friction: For walkway surfaces, install products with the following values as determined by testing identical products per the DCOF AcuTest as described in ANSI A137.1.
  - 1. Level Surfaces: 0.42 Minimum
  - 2. Step Treads: 0.42 Minimum

## 1.07 QUALITY ASSURANCE

- A. Maintain one copy of and ANSI A108/A118/A136 and TCNA (HB) on site.
- B. Manufacturer Qualifications: Company specializing in manufacturing the types of products specified in this section, with minimum five years of documented experience.
- C. Installer Qualifications:
  - 1. Company specializing in performing tile installation, with minimum of five years of documented experience.

## 1.08 DELIVERY, STORAGE, AND HANDLING

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

## 1.09 FIELD CONDITIONS

- A. Do not install solvent-based products in an unventilated environment.
- B. Maintain ambient and substrate temperature above 50 degrees F and below 100 degrees F during installation and curing of setting materials.

## PART 2 PRODUCTS

### 2.01 TILE

- A. Quarry Tile: ANSI A137.1, standard grade.
  - 1. Moisture Absorption: Over 3.0 but not more than 5.0 percent as tested in accordance with ASTM C373.
  - 2. Thickness: 1/2 inch, nominal.
  - 3. Surface Finish: Unglazed.
  - 4. Trim Units: Matching bullnose shapes in sizes coordinated with field tile.
  - 5. North Campus: American Olean, Quarry Regular, Canyon Red, 3 7/8 inch by 8 inch.
  - 6. High School: Daltile, Adobe Flash, 6 inch by 6 inch.

### 2.02 SETTING MATERIALS

- A. Improved Latex-Portland Cement Mortar Bond Coat for Large and Heavy Tile: ANSI A118.4.
  - 1. Applications: Use this type of bond coat where indicated and where no other type of bond coat is indicated.
  - 2. Products:
    - a. Custom Building Products; Complete Contact-LFT Premium Rapid Setting Large Format Tile Mortar, with Multi-Surface Bonding Primer: [www.custombuildingproducts.com](http://www.custombuildingproducts.com).
    - b. LATICRETE International, Inc; 4-XLT Rapid: [www.laticrete.com/#sle](http://www.laticrete.com/#sle).
    - c. Mapei Corporation: Ultraflex LFT Rapid. [www.mapei.com](http://www.mapei.com).
    - d. Merkrete, by Parex USA, Inc; Merkrete 720 Marble Pro: [www.merkrete.com/sle](http://www.merkrete.com/sle).
    - e. TEC, an H.B. Fuller Construction Products Brand; Ultimate Large Tile Mortar: [www.tecspecialty.com/#sle](http://www.tecspecialty.com/#sle).
    - f. Substitutions: See Section 01 60 00 - Product Requirements.



## 2.03 GROUTS

- A. High Performance 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. Use sanded grout for joints 1/8 inch wide and larger; use unsanded grout for joints less than 1/8 inch wide.
    - a. At large format tile install wider grout joints as required by industry standards.
  - 3. Colors:
    - a. High School: match Bostik, Flash Walnut H141
    - b. North Campus: match Mapei, Pecan 112
  - 4. Products:
    - a. ARDEX Engineered Cements; ARDEX FL: [www.ardexamericas.com/#sle](http://www.ardexamericas.com/#sle).
    - b. Bostik; Hydroment Vivid: [www.bostik.com](http://www.bostik.com)
    - c. Custom Building Products; Prism Color Consistent Grout: [www.custombuildingproducts.com/#sle](http://www.custombuildingproducts.com/#sle).
    - d. LATICRETE International, Inc; LATICRETE PERMACOLOR Grout: [www.laticrete.com/#sle](http://www.laticrete.com/#sle).
    - e. Merkrete, by Parex USA, Inc; Merkrete Pro Grout: [www.merkrete.com/#sle](http://www.merkrete.com/#sle).
    - f. Mapei; Keracolor Ultracolor Plus FA. [www.mapei.com](http://www.mapei.com)
    - g. Substitutions: See Section 01 60 00 - Product Requirements.

## 2.04 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. Products:
    - a. Merkrete, by Parex USA, Inc; Merkrete Revive: [www.merkrete.com/#sle](http://www.merkrete.com/#sle).
    - b. Miracle Sealants Company; 511 Impregnator: [www.miraclesealants.com](http://www.miraclesealants.com)
    - c. Gundlack Grout Sealer GS02 or GW09.
    - d. Custom Building Products; TileLab Grout and Tile Sealer
    - e. Mapei; UltraCare Grout Sealer. [www.mapei.com](http://www.mapei.com)
    - f. Substitutions: See Section 01 60 00 - Product Requirements.

## 2.05 ACCESSORY MATERIALS

- A. Concrete Floor Slab Crack Isolation Membrane: Material complying with ANSI A118.12; not intended as waterproofing.
  - 1. Crack Resistance: No failure at 1/16 inch gap, minimum.
  - 2. Fluid or Trowel Applied Type:
    - a. Material: Synthetic rubber or Acrylic.
    - b. Thickness: 20 mils, maximum.
    - c. Products:
      - 1) LATICRETE International, Inc; LATICRETE Blue 92 Anti-Fracture Membrane: [www.laticrete.com/#sle](http://www.laticrete.com/#sle).
      - 2) MAPEI Corporation; Mapelastic 400 with Fiberglass Mesh. [www.mapei.com](http://www.mapei.com)
      - 3) Merkrete, by Parex USA, Inc; Merkrete Fracture Guard: [www.merkrete.com/#sle](http://www.merkrete.com/#sle).
      - 4) Substitutions: See Section 01 60 00 - Product Requirements.

## 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. Refer to Section 09 05 61 for floor flatness guidelines.
- B. Verify that subfloor surfaces are dust free and free of substances that could impair bonding of setting materials to subfloor surfaces.

- C. Cementitious Subfloor Surfaces: Verify that substrates are ready for tiling installation by testing for moisture and alkalinity (pH).
  - 1. Test as Follows:
    - a. Alkalinity (pH): ASTM F710.
    - b. Internal Relative Humidity: ASTM F2170.
    - c. Moisture Vapor Emission: ASTM F1869.
  - 2. Obtain instructions if test results are not within limits recommended by tiling material manufacturer and setting material manufacturer.
- D. 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.
- D. Install crack control membrane in accordance to manufacturer's recommendations and TCNA guidelines.
  - 1. Install membrane over construction and expansion control joints in existing concrete as recommended by manufacturer and according to TCA recommendations. Install soft joint at tile as recommended.
- E. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.

### **3.03 INSTALLATION - GENERAL**

- A. Install tile and grout in accordance with applicable requirements of ANSI A108.1a through ANSI A108.19 , manufacturer's instructions, and TCNA (HB) recommendations.
- B. Lay tile to pattern indicated. Do not interrupt tile pattern through openings.
- C. Where required by tile manufacturer install mortar type in thickness as required for large and heavy tile (LHT).
  - 1. Mortar at large format tile shall be installed with notched trowel in one direction to achieve minimum 95% coverage. Circular or other motion application is prohibited.
  - 2. Apply full bed of mortar to backside of large format tile.
- D. For large format tile use mechanical edge leveling system to align edges.
- E. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.
- F. 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.
- G. Form internal angles square and external angles bullnosed.
- H. Sound tile after setting. Replace hollow sounding units.
- I. Keep control and expansion joints free of mortar, grout, and adhesive.
- J. Prior to grouting, allow installation to completely cure; minimum of 48 hours.
- K. Grout tile joints unless otherwise indicated.
- L. Apply grout sealer to all joints.
- M. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.

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

- A. Over interior concrete slab on grade substrates with crack isolation membrane at joints and cracks. Install in accordance with TCA Handbook Method F113, dry-set or latex-portland cement bond coat, with polymer modified grout per ANSI A118.7.

### **3.05 CLEANING**

- A. Clean tile and grout surfaces.

### **3.06 PROTECTION**

- A. Do not permit traffic over finished floor surface for 2 days after installation.

**END OF SECTION**

Page Intentionally Left Blank

**SECTION 09 51 00**  
**ACOUSTICAL CEILINGS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Suspended metal grid ceiling system.
- B. Acoustical units.

**1.02 RELATED REQUIREMENTS**

- A. Mechanical Supply and Return Devices Division 23
- B. Electrical Light Fixtures Division 26

**1.03 REFERENCE STANDARDS**

- A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2015.
- B. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021.
- C. ASTM C635/C635M - Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings; 2013a.
- D. ASTM E1264 - Standard Classification for Acoustical Ceiling Products; 2014.

**1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Provide submittal transmittals that include all submittal items identified in each submittal group below.
- C. Review Submittals - Preparatory
  - 1. Product Data: Provide data on suspension system components and acoustical units.
- D. Review Submittals - Samples
  - 1. Samples: Submit two samples 12 by 12 inch in size illustrating material and finish of acoustical units.
- E. Maintenance Materials
  - 1. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
    - a. See Section 01 60 00 - Product Requirements, for additional provisions.

**1.05 QUALITY ASSURANCE**

- A. Suspension System Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

**1.06 FIELD CONDITIONS**

- A. Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

- A. Acoustic Tiles/Panels:
  - 1. Armstrong World Industries, Inc: [www.armstrongceilings.com/#sle](http://www.armstrongceilings.com/#sle).
  - 2. Acoustic Ceiling Products, Inc: [www.acpideas.com/#sle](http://www.acpideas.com/#sle).
  - 3. CertainTeed Corporation: [www.certainteed.com/#sle](http://www.certainteed.com/#sle).
  - 4. USG Corporation: [www.usg.com/ceilings/#sle](http://www.usg.com/ceilings/#sle).
  - 5. National Gypsum; [www.nationalgypsum.com](http://www.nationalgypsum.com)
  - 6. Roxul Rockfon. [www.rockfon.com](http://www.rockfon.com)
  - 7. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Steel Suspension Systems:

1. Armstrong World Industries, Inc: [www.armstrongceilings.com/#sle](http://www.armstrongceilings.com/#sle).
2. CertainTeed Corporation; 15/16" Classic Hook System: [www.certainteed.com/#sle](http://www.certainteed.com/#sle).  
Rockfon, LLC: [www.rockfon.com](http://www.rockfon.com).
3. USG Corporation: [www.usg.com/ceilings/#sle](http://www.usg.com/ceilings/#sle).
4. Substitutions: See Section 01 60 00 - Product Requirements.

## **2.02 ACOUSTICAL UNITS**

- A. Acoustical Units - General: ASTM E1264, Class A.
- B. BOARD TYPE ACT-2: 2'x2' Tegular
  1. Armstrong: Fissured 705.

## **2.03 SUSPENSION SYSTEM(S)**

- A. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with stabilizer bars, clips, splices, and perimeter moldings as required.
  1. Materials:
    - a. Steel Grid: ASTM A653/A653M, G30 coating, unless otherwise indicated.
    - b. Aluminum Grid: Aluminum sheet, ASTM B209/B209M.

## **2.04 ACCESSORIES**

- A. Support Channels and Hangers: Galvanized steel; size and type to suit application and ceiling system flatness requirement specified.
- B. Hanger Wire: 12 gauge, 0.08 inch galvanized steel wire.
- C. Perimeter Moldings: Same metal and finish as grid.
  1. Angle Molding: L-shaped, for mounting at same elevation as face of grid.
- D. Metal Edge Trim for "Cloud" Suspension Systems: Steel or extruded aluminum; provide attachment clips, splice plates, and preformed corner pieces for complete trim system.
  1. Trim Height: 6 inch.
  2. Finish: Baked enamel.
  3. Color: White.
  4. Products:
    - a. USG Corporation; Compasso Suspension Trim: [www.usg.com/ceilings/#sle](http://www.usg.com/ceilings/#sle).
    - b. Armstrong: Axiom Classic. [www.armstrongceilings.com](http://www.armstrongceilings.com)

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify existing conditions before starting work.
- B. Verify that layout of hangers will not interfere with other work.

### **3.02 INSTALLATION - SUSPENSION SYSTEM**

- A. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
- B. Locate system on room axis according to reflected plan.
- C. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
  1. Use longest practical lengths.
  2. Miter corners.
- D. Suspension System, Non-Seismic: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
- E. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- F. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.

- G. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.
- H. Do not eccentrically load system or induce rotation of runners.

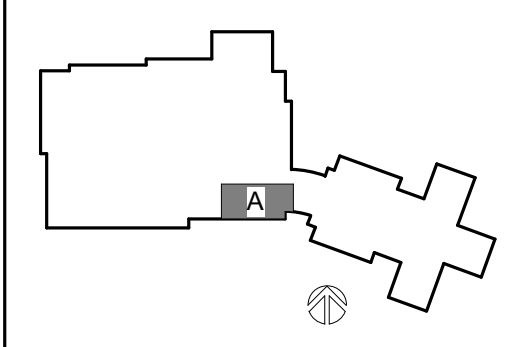
### **3.03 INSTALLATION - ACOUSTICAL UNITS**

- A. Install acoustical units in accordance with manufacturer's instructions.
- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
- C. Fit border trim neatly against abutting surfaces.
- D. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
- E. Cutting Acoustical Units:
  - 1. Cut to fit irregular grid and perimeter edge trim.
  - 2. Make field cut edges of same profile as factory edges.
- F. Where round obstructions occur, provide preformed closures to match perimeter molding.
- G. Provide tegular edge at walls and other abutting vertical surfaces. Field paint cut edges to surface color and sheen.

**END OF SECTION**

Page Intentionally Left Blank





KEY PLAN  
CHEQUAMEGON HS/  
PARK FALLS ELEM.

Revisions:

No.	Description	Date
A01	ADDENDUM 1	4-14-2022

Graphic Scale:  
0' 2' 4' 8' 12'

Last Update:  
4/13/2022 4:06:51 PM

**KEY NOTES REMOVAL**

D1	REMOVE EXISTING DOOR AND FRAME, INCLUDING SIDELIGHT AND/OR TRANSOM WHERE APPLICABLE
D2	CREATE OPENING IN EXISTING MASONRY WALL FOR NEW DOOR / WINDOW. OVERSIZE DEMOLISHED OPENING AS REQUIRED FOR INSTALLATION OF STRUCTURAL LINTEL AND JAMB REINFORCING. SALVAGE FACE BRICK FOR REUSE WHERE APPLICABLE
D3	REMOVE EXISTING CMU PARTITION
D4	REMOVE EXISTING CABINET HEATER - SEE MECHANICAL
D5	REMOVE EXISTING FIN TUBE RADIATOR - SEE MECHANICAL
D6	REMOVE EXISTING CASEWORK - SALVAGE TO OWNER. PATCH WALL/FLOOR AS REQUIRED.
D7	REMOVE EXISTING CARPET FLOORING AND VINYL BASE
D8	REMOVE EXISTING SUSPENDED ACOUSTIC TILE CEILING SYSTEM
D9	REMOVE EXISTING GLASS DOORS AND HINGES
D10	REMOVE EXISTING WOOD WALL PANELING, EXISTING FURRING AND CYP BOARD SUBSTRATE TO REMAIN
D11	REMOVE EXISTING DOOR OPENER ACTUATOR
D12	EXISTING DISPLAY CASE - REMOVED BY OWNER
D13	EXISTING TACKBOARD - REMOVED BY OWNER
D14	REMOVE EXISTING WALL MOUNTED MONITOR-SALVAGE TO OWNER
D15	REMOVE EXISTING WALL PLAQUE, SALVAGE FOR RELOCATION. PATCH/CLEAN BRICK AS REQUIRED.

**REMOVAL GENERAL NOTES:**

- ALL ITEMS SHOWN DASHED ON DEMOLITION PLANS SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE NOTED. REFERENCE MEP DRAWINGS FOR APPLICABLE EQUIPMENT REMOVALS AND MODIFICATIONS. COORDINATE PATCHING AT EQUIPMENT REMOVALS.
- AT WALL TYPES/MATERIALS: PREPARATION FOR NEW FINISHES SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL OF EXISTING FINISHES, TAPES, GLUEMASTIC, MALS AND RELATED ITEMS. PATCHING OF HOLES, INDENTATIONS AND CRACKS FOR AN ACCEPTABLE SURFACE FOR NEW FINISH INSTALLATION.
- OWNER WILL REMOVE LOOSE FURNISHINGS AND EQUIPMENT FROM THE WORK AREA PRIOR TO START OF CONSTRUCTION.
- MAINTAIN ALL EXIT DOORS AND CORRIDORS IN UNOBSTRUCTED OPERABLE CONDITION WITH SAFE PASSAGE AWAY FROM THE BUILDING.
- ROOM NUMBERS ARE SHOWN ON THIS PLAN FOR INFORMATIONAL AND COORDINATION PURPOSES ONLY.
- COORDINATE STORAGE LOCATIONS FOR SALVAGED ITEMS WITH OWNER.
- PROVIDE FLOOR PROTECTION AS SPECIFIED AT DEBRIS REMOVAL PATHS THROUGH BUILDING.

**REMOVAL PLAN LEGEND:**

- SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- REMOVE ITEMS NOTED WITH DASHED LINES
- SYMBOL INDICATES REMOVAL OF DOOR AND FRAME UNLESS NOTED OTHERWISE

**KEY NOTES PLAN**

1	PATCH EXISTING CMU WALL AT REMOVED PARTITION
2	CMU INFILL AT EXISTING OPENING
3	EXISTING CASEWORK TO REMAIN
4	FURNITURE N.I.C.
5	ROLLER WINDOW BLIND
6	PLUM WINDOW STOOL
7	EXISTING QUARRY TILE FLOORING TO REMAIN
8	EXISTING CARPET FLOORING TO REMAIN
9	EXISTING TERRAZZO FLOORING TO REMAIN
10	NEW QUARRY TILE FLOORING AND VINYL BASE - SEE SHEET A600
11	PATCH QUARRY TILE FLOORING AND BASE AS REQUIRED AT NEW STOREFRONT FRAME
12	RELOCATED WALL PLAQUE
13	AUTOMATIC DOOR OPENER ACTUATOR
14	EXISTING AUTOMATIC DOOR OPENER ACTUATOR TO REMAIN
15	PIPE ENCLOSURE BY MECH
16	NEW CARPET FLOORING - SHAW FRANCHISE II 26, COLOR: GRANITE #00500
17	RELOCATED AIRPHONE INTERCOM - SEE ELECTRICAL

**PLAN GENERAL NOTES:**

- LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
- PAINT ALL EXPOSED STEEL LINTELS.
- EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE.
- INSTALL BULLNOSE CMU AT ALL OUTSIDE CORNERS AND AT DOOR JAMBS AS DETAIL. NO BULLNOSE AT WINDOW JAMBS.
- VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC OPENINGS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION
- SEE SHEET A600 FOR WALL/FLOOR FINISHES

**PLAN LEGEND:**

- SYMBOL INDICATES WALL TYPE - SEE SHEET A600 FOR WALL TYPE DETAILS.
- SYMBOL INDICATES WINDOW TYPE - SEE SHEET A600 FOR WINDOW FRAME ELEVATIONS.
- SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- SYMBOL INDICATES LINTEL - SEE LINTEL SCHEDULE ON SHEET A300

**KEY NOTES RCP**

C1	REMOVE CEILING TILE AND GRID FOR INSTALLATION OF NEW CONSTRUCTION. SALVAGE FOR REINSTALLATION (AT HATCHED AREA)
C2	GYP BOARD BULKHEAD (PAINT)
C3	PAINT EXPOSED WALL ABOVE NEW DOOR FRAME
C4	2X4 CEILING TILE FROM OWNER'S ATTIC STOCK IN NEW GRID

**RCP GENERAL NOTES:**

- REFER TO MECHANICAL AND PLUMBING CEILING ACCESS PANEL LOCATIONS & SIZES.
- SEE MECHANICAL FOR CEILING GRILLE INFORMATION.
- SEE ELECTRICAL FOR LIGHTING TYPES.
- ALL INTERIOR PARTITIONS TO EXTEND TO BOTTOM OF DECK UNLESS OTHERWISE NOTED. CLOSE DECK FLUTES AT TOP OF WALL WITH NEOPRENE FILLER OR FIRESTOPPING SYSTEM. IN GYPSUM PARTITIONS SEE SPECIFICATION FOR LEVEL OF FINISH ABOVE FINISHED CEILING.
- ALL REMAINING ANNULAR SPACE AROUND ITEMS PENETRATING WALLS SHALL BE NEATLY SEALED. PENETRATIONS OF FIRE RATED WALLS SHALL BE FIRESTOPPED WITH THE SAME AS THE WALL.
- ALL EXTERIOR EXPOSED STEEL LINTEL SHEADERS SHALL BE GALVANIZED, PRIMED AND PAINTED UNLESS NOTED OTHERWISE.
- HANGERS AND SUPPORTS: MECHANICAL, PLUMBING, ELECTRICAL AND OTHER CABLEING CONTRACTORS SHALL NOT HANG OR SUPPORT THE WORK FROM THE ROOF DECK IN ANY FASHION. CONDUIT RUNS SHALL NOT BE LAID ON ROOF DECK NOR LAID ON THE STRUCTURAL SUPPORT THAT SUPPORTS THE ROOF DECK. NO FASTENERS SHALL PENETRATE ROOF DECK BY ANY TRADE OTHER THAN THE ROOFING CONTRACTOR FOR THE NEW ROOF SYSTEM.
- CEILING TYPES INSTALLED AS NOTED ON PLANS. SEE SPECIFICATIONS FOR ADDITIONAL SYSTEM INFORMATION. ACT-2-REGULAR EDGE

**RCP LEGEND:**

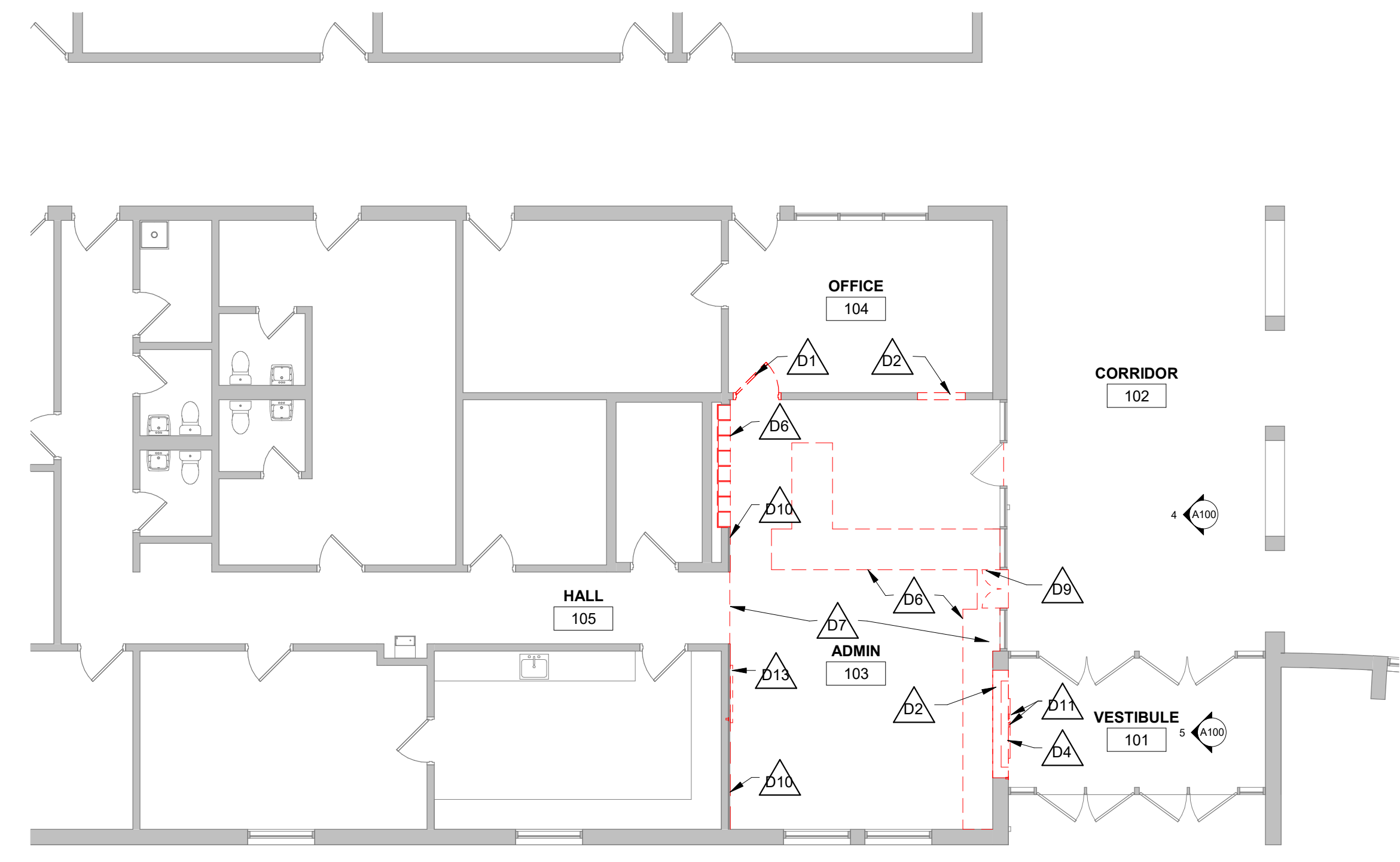
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- SUPPLY - SEE MECHANICAL
- RETURN - SEE MECHANICAL
- CAB HEATER - SEE MECHANICAL



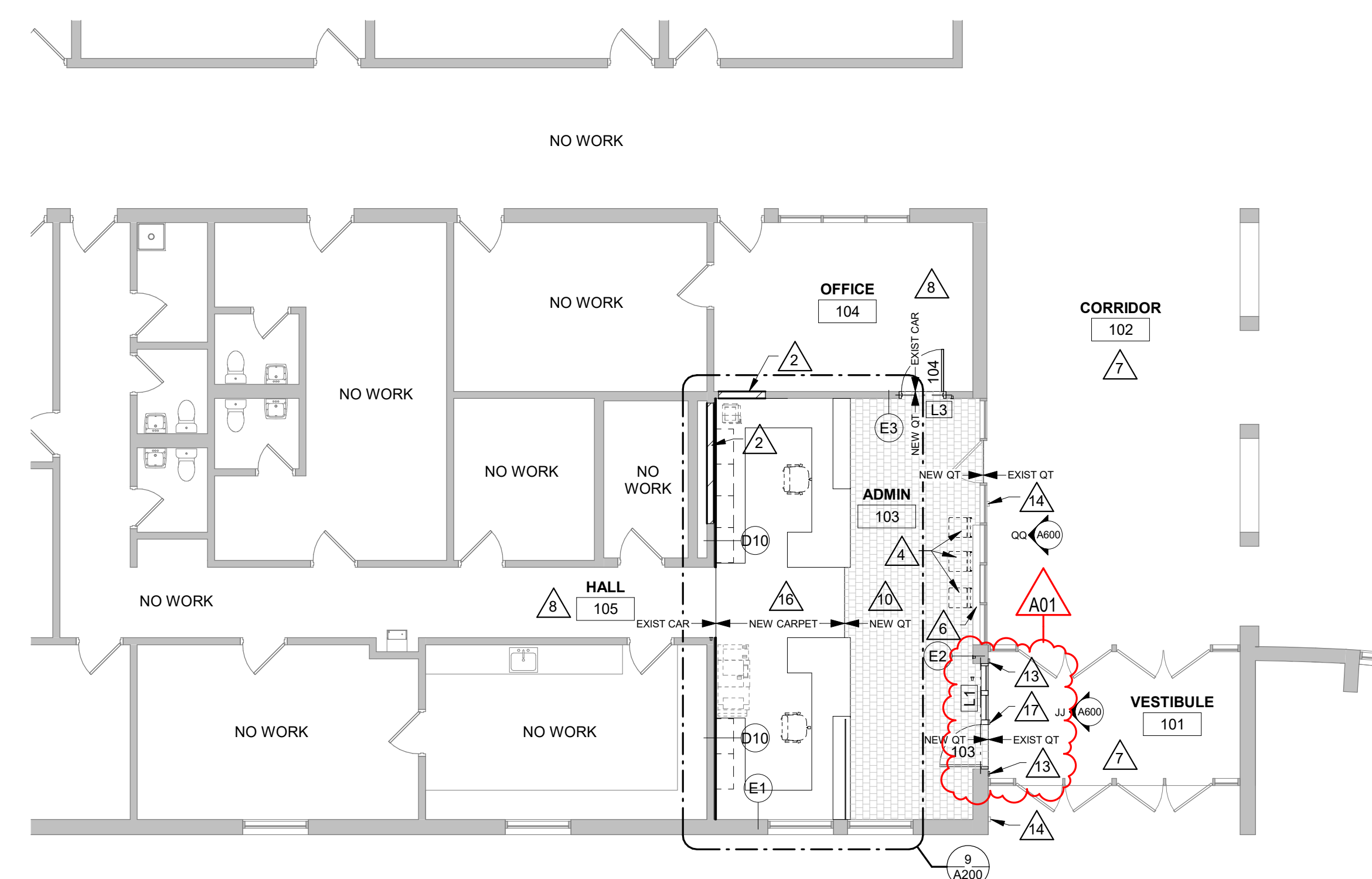
4 CORRIDOR 102 WEST



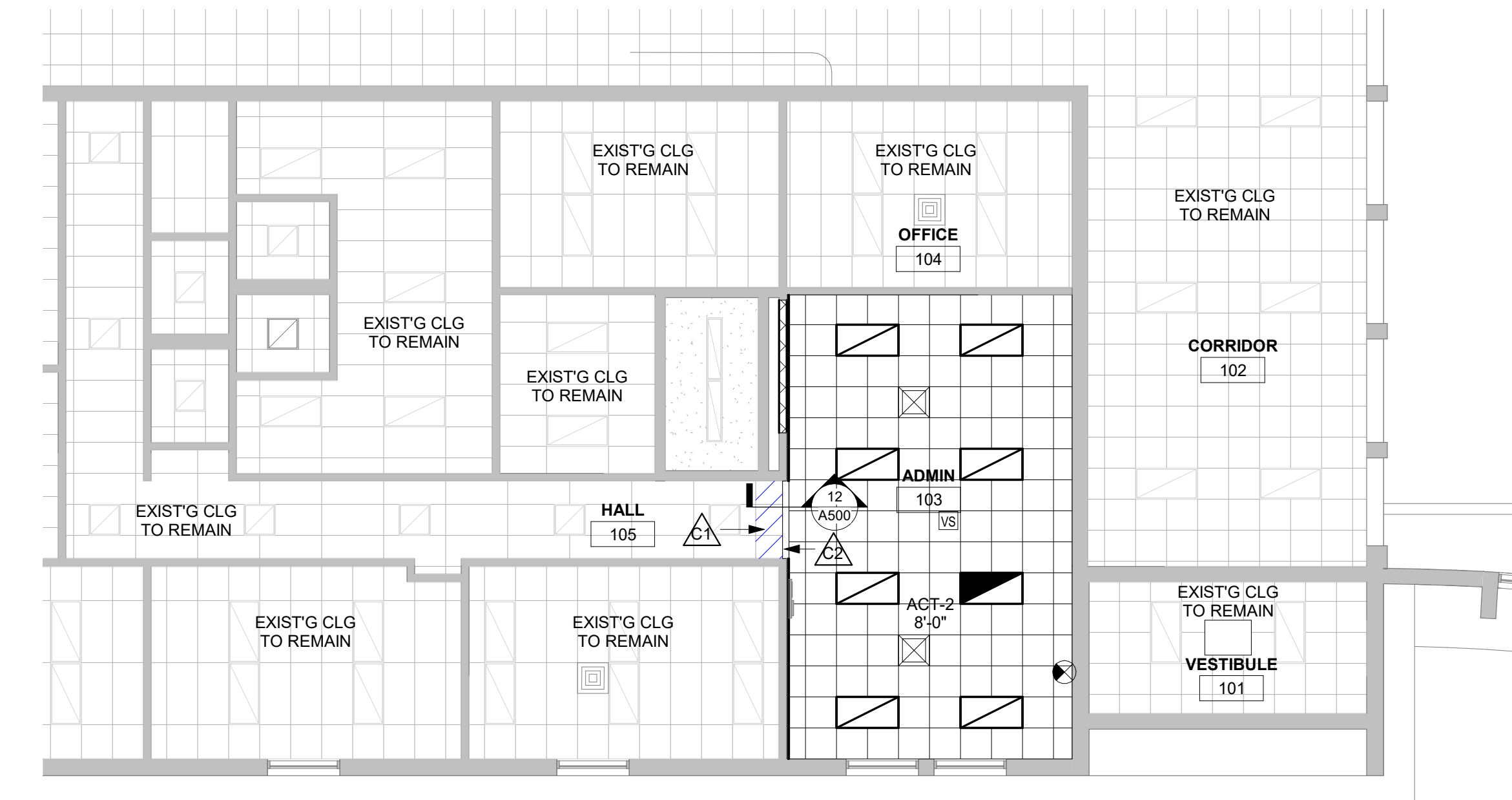
5 VESTIBULE 101 WEST



1 FIRST FLOOR DEMO - SEGMENT A  
1/8" = 1'-0"



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



3 FIRST FLOOR REFLECTED CEILING- SEGMENT A  
1/8" = 1'-0"





Consultant:

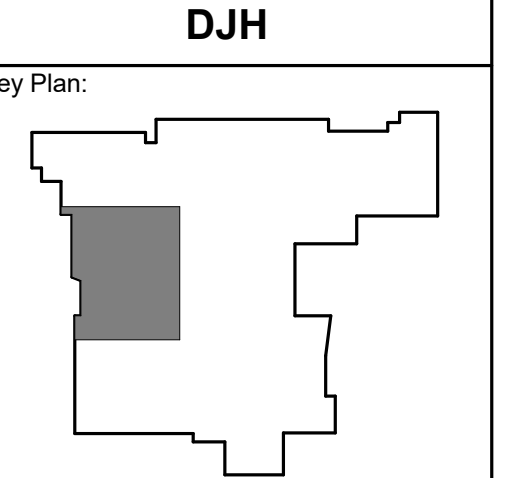
Project Title: CHEQUAMEGON SCHOOL DISTRICT  
SECURE ENTRY IMPROVEMENTS  
Project Location: PARK FALLS, WISCONSIN  
GLIDDEN, WISCONSIN  
Sheet Title: FLOOR PLANS-NORTH CAMPUS

HSR Project Number: 21060

Project Date: APRIL 2022

Drawn By: DJH

Key Plan:



KEY PLAN  
CHEQUAMEGON  
NORTH CAMPUS

No.	Description	Date
A01	ADDENDUM 1	4-14-2022

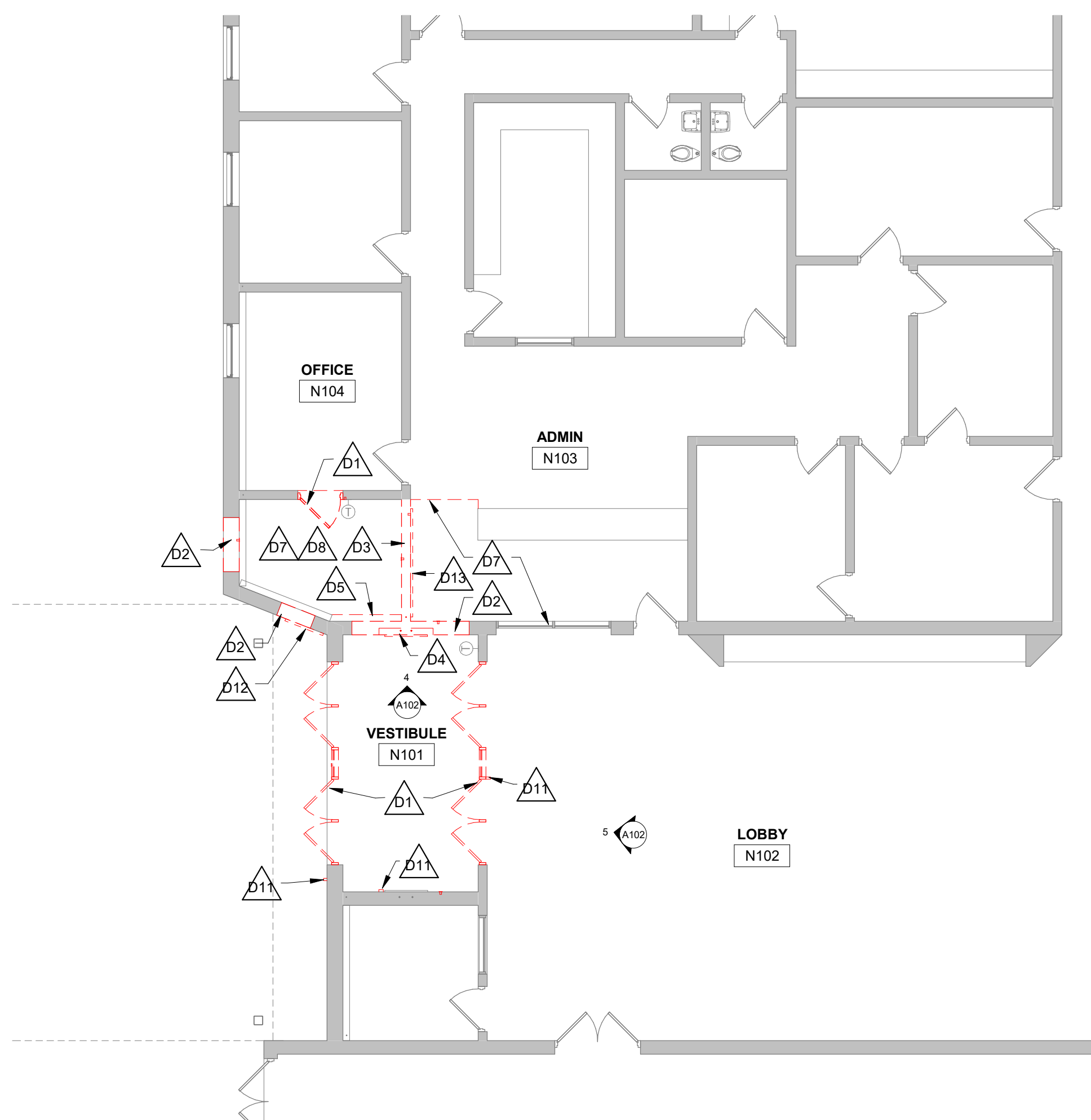
Revisions:

No.	Description	Date
A01	ADDENDUM 1	4-14-2022

Graphic Scale: 0' 2' 4' 8' 12'

Last Update: 4/13/2022 4:10:38 PM

**A102**



**1** FIRST FLOOR DEMO-NORTH CAMPUS  
1/8" = 1'-0"

**REMOVAL GENERAL NOTES:**

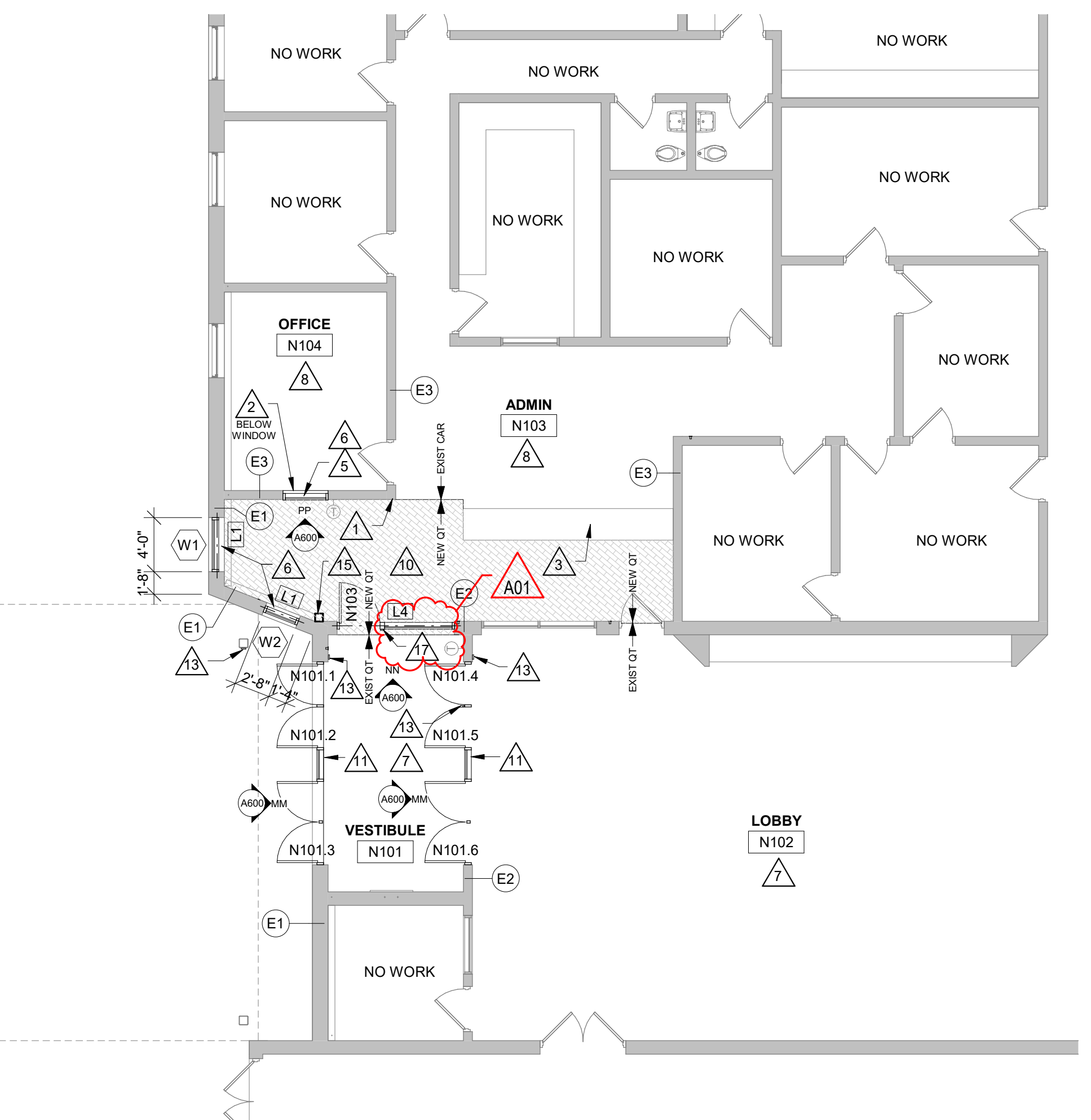
- ALL ITEMS SHOWN DASHED ON DEMOLITION PLANS SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE NOTED. REFERENCE MEP DRAWINGS FOR APPLICABLE EQUIPMENT REMOVALS AND MODIFICATIONS. COORDINATE PATCHING AT EQUIPMENT REMOVALS.
- AT WALL TYPES/MATERIALS. PREPARATION FOR NEW FINISHES SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL OF EXISTING FINISHES, TAPES, GLUE/MASTIC, WALLS AND RELATED ITEMS. PATCHING OF HOLES, INDENTATIONS AND CRACKS FOR AN ACCEPTABLE SURFACE FOR NEW FINISH INSTALLATION.
- OWNER WILL REMOVE LOOSE FURNISHINGS AND EQUIPMENT FROM THE WORK AREA PRIOR TO START OF CONSTRUCTION.
- MAINTAIN ALL EXIT DOORS AND CORRIDORS IN UNOBSTRUCTED OPERABLE CONDITION WITH SAFE PASSAGE AWAY FROM THE BUILDING.
- ROOM NUMBERS ARE SHOWN ON THIS PLAN FOR INFORMATIONAL AND COORDINATION PURPOSES ONLY.
- COORDINATE STORAGE LOCATIONS FOR SALVAGED ITEMS WITH OWNER.
- PROVIDE FLOOR PROTECTION AS SPECIFIED AT DEBRIS REMOVAL PATHS THROUGH BUILDING.

**KEY NOTES REMOVAL**

D1	REMOVE EXISTING DOOR AND FRAME, INCLUDING SIDELIGHT AND/OR TRANSOM WHERE APPLICABLE
D2	CREATE OPENING IN EXISTING MASONRY WALL FOR NEW DOOR / WINDOW. OVERSIZE DEMOLISHED OPENING AS REQUIRED FOR INSTALLATION OF STRUCTURAL LINTEL AND JAMB REINFORCING. SALVAGE FACE BRICK FOR REUSE WHERE APPLICABLE
D3	REMOVE EXISTING CMU PARTITION
D4	REMOVE EXISTING CABINET HEATER - SEE MECHANICAL
D5	REMOVE EXISTING FIN TUBE RADIATOR - SEE MECHANICAL
D6	REMOVE EXISTING CASEWORK - SALVAGE TO OWNER. PATCH WALL/FLOOR AS REQUIRED
D7	REMOVE EXISTING CARPET FLOORING AND VINYL BASE
D8	REMOVE EXISTING SUSPENDED ACOUSTIC TILE CEILING SYSTEM
D9	REMOVE EXISTING GLASS DOORS AND HINGES
D10	REMOVE EXISTING WOOD WALL PANELING, EXISTING FURRING AND GYP BOARD SUBSTRATE TO REMAIN
D11	REMOVE EXISTING DOOR OPENER ACTUATOR
D12	EXISTING DISPLAY CASE - REMOVED BY OWNER
D13	EXISTING TACKBOARD - REMOVED BY OWNER
D14	REMOVE EXISTING WALL MOUNTED MONITOR. SALVAGE TO OWNER
D15	REMOVE EXISTING WALL PLAQUE. SALVAGE FOR RELOCATION. PATCH/CLEAN BRICK AS REQUIRED.

**REMOVAL PLAN LEGEND:**

- △ SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- - - REMOVE ITEMS NOTED WITH DASHED LINES
- ⊞ SYMBOL INDICATES REMOVAL OF DOOR AND FRAME UNLESS NOTED OTHERWISE



**2** FIRST FLOOR-NORTH CAMPUS  
1/8" = 1'-0"

**PLAN GENERAL NOTES:**

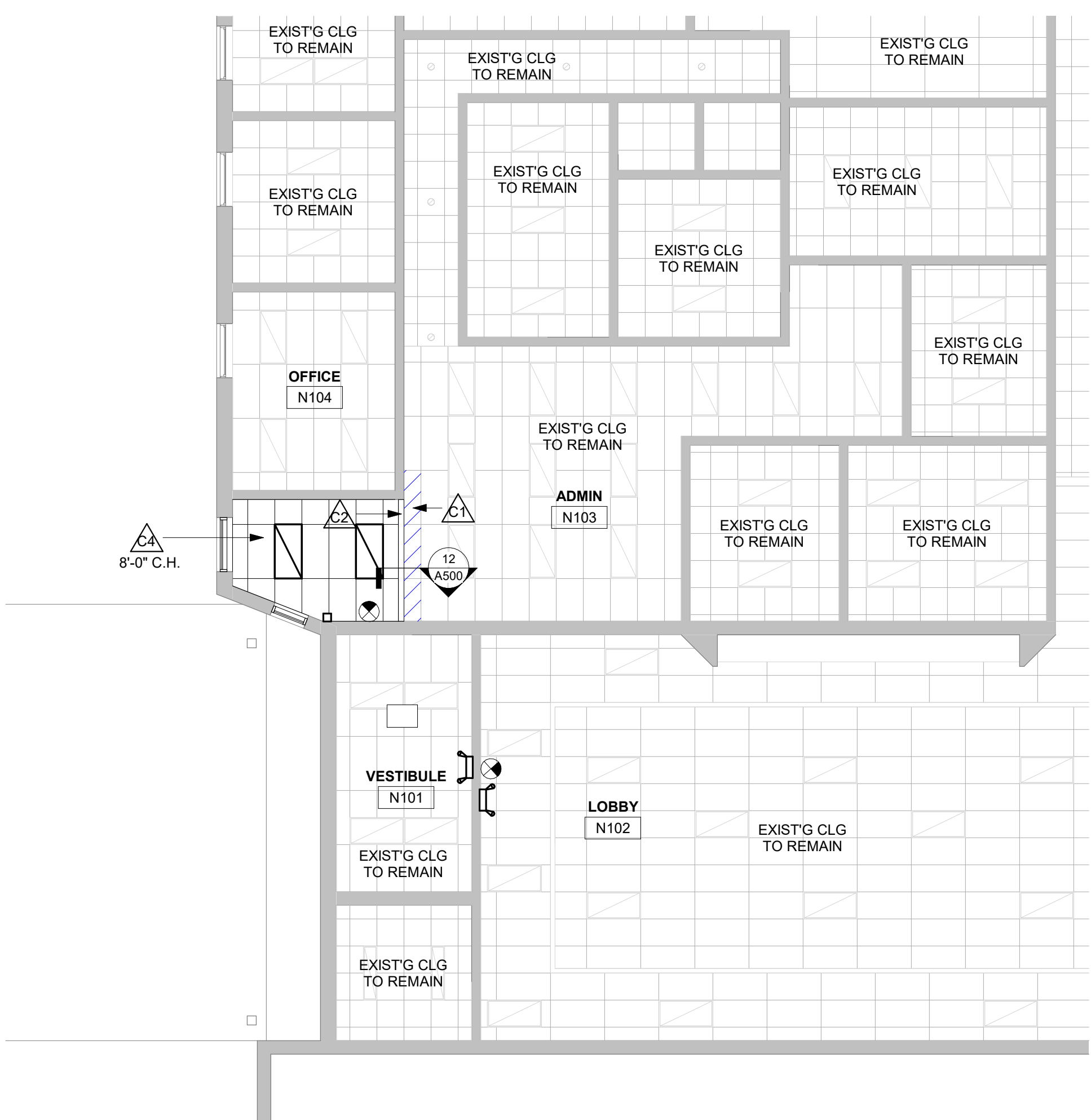
- LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
- PAINT ALL EXPOSED STEEL LINTELS.
- EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE.
- INSTALL BULLNOSE CMU AT ALL OUTSIDE CORNERS AND AT DOOR JAMBS AS DETAILED. NO BULLNOSE AT WINDOW JAMBS.
- VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC OPENINGS - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION.
- SEE SHEET A600 FOR WALL/FLOOR FINISHES

**KEY NOTES PLAN**

1	PATCH EXISTING CMU WALL AT REMOVED PARTITION
2	CMU INFILL AT EXISTING OPENING
3	EXISTING CASEWORK TO REMAIN
4	FURNITURE N.I.C.
5	ROLLER WINDOW BLIND
6	PLUM WINDOW STOOL
7	EXISTING QUARRY TILE FLOORING TO REMAIN
8	EXISTING CARPET FLOORING TO REMAIN
9	EXISTING TERRAZZO FLOORING TO REMAIN
10	NEW QUARRY TILE FLOORING AND VINYL BASE - SEE SHEET A600
11	PATCH QUARRY TILE FLOORING AND BASE AS REQUIRED AT NEW STOREFRONT FRAME
12	RELOCATED WALL PLAQUE
13	AUTOMATIC DOOR OPENER ACTUATOR
14	EXISTING AUTOMATIC DOOR OPENER ACTUATOR TO REMAIN
15	PIPE ENCLOSURE BY MECH
16	NEW CARPET FLOORING - SHAW FRANCHISE # 26. COLOR: GRANITE R0050
17	RELOCATED APHONE INTERCOM - SEE ELECTRICAL

**PLAN LEGEND:**

- △ SYMBOL INDICATES WALL TYPE - SEE SHEET A600 FOR WALL TYPE DETAILS
- ⊞ SYMBOL INDICATES WINDOW TYPE. SEE SHEET A600 FOR WINDOW FRAME ELEVATIONS.
- △ SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- ⊞ SYMBOL INDICATES LINTEL - SEE LINTEL SCHEDULE ON SHEET A500



**3** FIRST FLOOR RCP-NORTH CAMPUS  
1/8" = 1'-0"

**RCP GENERAL NOTES:**

- REFER TO MECHANICAL AND PLUMBING CEILING ACCESS PANEL LOCATIONS & SIZES.
- SEE MECHANICAL FOR CEILING GRILLE INFORMATION.
- SEE ELECTRICAL FOR LIGHTING TYPES.
- ALL INTERIOR PARTITIONS TO EXTEND TO BOTTOM OF DECK UNLESS OTHERWISE NOTED. CLOSE DECK FLUTES AT TOP OF WALL WITH NEOPRENE FILLER OR FIRESTOPPING SYSTEM. IN GYPSUM PARTITIONS SEE SPECIFICATION FOR LEVEL OF FINISH ABOVE FINISHED CEILING.
- ALL REMAINING ANNULAR SPACE AROUND ITEMS PENETRATING WALLS SHALL BE NEATLY SEALED. PENETRATIONS OF FIRE RATED WALLS SHALL BE FIRESTOPPED WITH THE SAME AS THE WALL.
- ALL EXTERIOR EXPOSED STEEL LINTELS/HEADERS SHALL BE GALVANIZED, PRIMED AND PAINTED UNLESS NOTED OTHERWISE.
- HANGERS AND SUPPORTS: MECHANICAL, PLUMBING, ELECTRICAL AND OTHER CABLING CONTRACTORS SHALL NOT HANG OR SUPPORT THE WORK FROM THE ROOF DECK IN ANY FASHION. CONDUIT RUNS SHALL NOT BE LAID ON ROOF DECK NOR LAID ON THE STRUCTURAL SUPPORT THAT SUPPORTS THE ROOF DECK. NO FASTENERS SHALL PENETRATE ROOF DECK BY ANY TRADE OTHER THAN THE ROOFING CONTRACTOR FOR THE NEW ROOF SYSTEM.
- CONFIRM EXACT LOCATION OF OVERHEAD PROJECTORS AND OTHER CEILING MOUNTED EQUIPMENT WITH OWNER / MANUFACTURER PRIOR TO INSTALLATION. SEE EQUIPMENT PLANS FOR ADDITIONAL EQUIPMENT.
- CEILING TYPES INSTALLED AS NOTED ON PLANS. SEE SPECIFICATIONS FOR ADDITIONAL SYSTEM INFORMATION. ACT-2-REGULAR EDGE

**KEY NOTES RCP**

C1	REMOVE CEILING TILE AND GRID FOR INSTALLATION OF NEW CONSTRUCTION. SALVAGE FOR REINSTALLATION (AT HATCHED AREA)
C2	GYP BOARD BULKHEAD (PAINT)
C3	PAINT EXPOSED WALL ABOVE NEW DOOR FRAME
C4	2X4 CEILING TILE FROM OWNER'S ATTIC STOCK IN NEW GRID

**RCP LEGEND:**

- ⊞ LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- ⊞ LIGHT FIXTURE - SEE ELECTRICAL
- ⊞ SUPPLY - SEE MECHANICAL
- ⊞ RETURN - SEE MECHANICAL
- ⊞ CAB HEATER - SEE MECHANICAL



**4** VESTIBULE N101 NORTH



**5** LOBBY N102 SOUTH  
12" = 1'-0"





Consultant:

CHEQUAMEGON SCHOOL DISTRICT  
SECURE ENTRY IMPROVEMENTS  
Project Location: PARK FALLS, WISCONSIN  
GLIDDEN, WISCONSIN  
Project Title: WALL TYPES, DOOR SCHEDULE, FINISHES  
Sheet Title:

HSR Project Number: 21060

Project Date: APRIL 2022

Drawn By: HSR

Key Plan:

No.	Description	Date
A01	ADDENDUM 1	4-14-2022

Graphic Scale: VARIES

Last Update: 4/13/2022 4:12:02 PM

**A600**

DOOR NO.	SIZE			DOOR TYPE	GLASS TYPE	U-CUT OR LOUVER	FRAME			DETAILS				FIRE LABEL	HWDR GROUP	REMARKS
	W	H	T				MAT'L	ELEV	DEPTH	HEAD	JAMB	SILL				
103	3'-0"	7'-0"	1-3/4"	SCWD	E		HM	LJA600	5-3/4"	5/8"	5/8"	5/8"	1		1	
104	3'-0"	7'-0"	1-3/4"	SCWD	F		HM	LLA600	5-3/4"	5/8"	5/8"	5/8"	2		1	
201	6'-8"	7'-0"	1-3/4"	SCWD	A		HM	LLA600	5-7/8"	4/A500	3/A500	3/A500	3			
203.1	3'-4"	7'-0"	1-3/4"	SCWD	E		HM	KKAA600	5-7/8"	4/A500	3/A500	3/A500	4			
203.2	3'-4"	7'-0"	1-3/4"	SCWD	E		HM	KKAA600	5-7/8"	4/A500	3/A500	3/A500	4		1	
N101.1	3'-0"	7'-2"	1-3/4"	ALUM	E		ALUM	MMAA600	6"	16/A500		15/500A	5		4, 5	
N101.2	3'-0"	7'-2"	1-3/4"	ALUM	E		ALUM	MMAA600	6"	16/A500		15/500A	5		3, 4, 5	
N101.3	3'-0"	7'-2"	1-3/4"	ALUM	F		ALUM	MMAA600	6"	16/A500		15/500A	5		2, 4	
N101.4	3'-0"	7'-0"	1-3/4"	ALUM	E		ALUM	MMAA600	6"	16/A500 SIM.			5		4, 5	
N101.5	3'-0"	7'-0"	1-3/4"	ALUM	E		ALUM	MMAA600	6"	16/A500 SIM.			5		3, 4, 5	
N101.6	3'-0"	7'-0"	1-3/4"	ALUM	F		ALUM	MMAA600	6"	16/A500 SIM.			5		2, 4	
N102	3'-0"	7'-2"	1-3/4"	ALUM	E		ALUM	NNAA600	6"	8/A500	7/A500		1		1	

**DOOR SCHEDULE GENERAL NOTES**

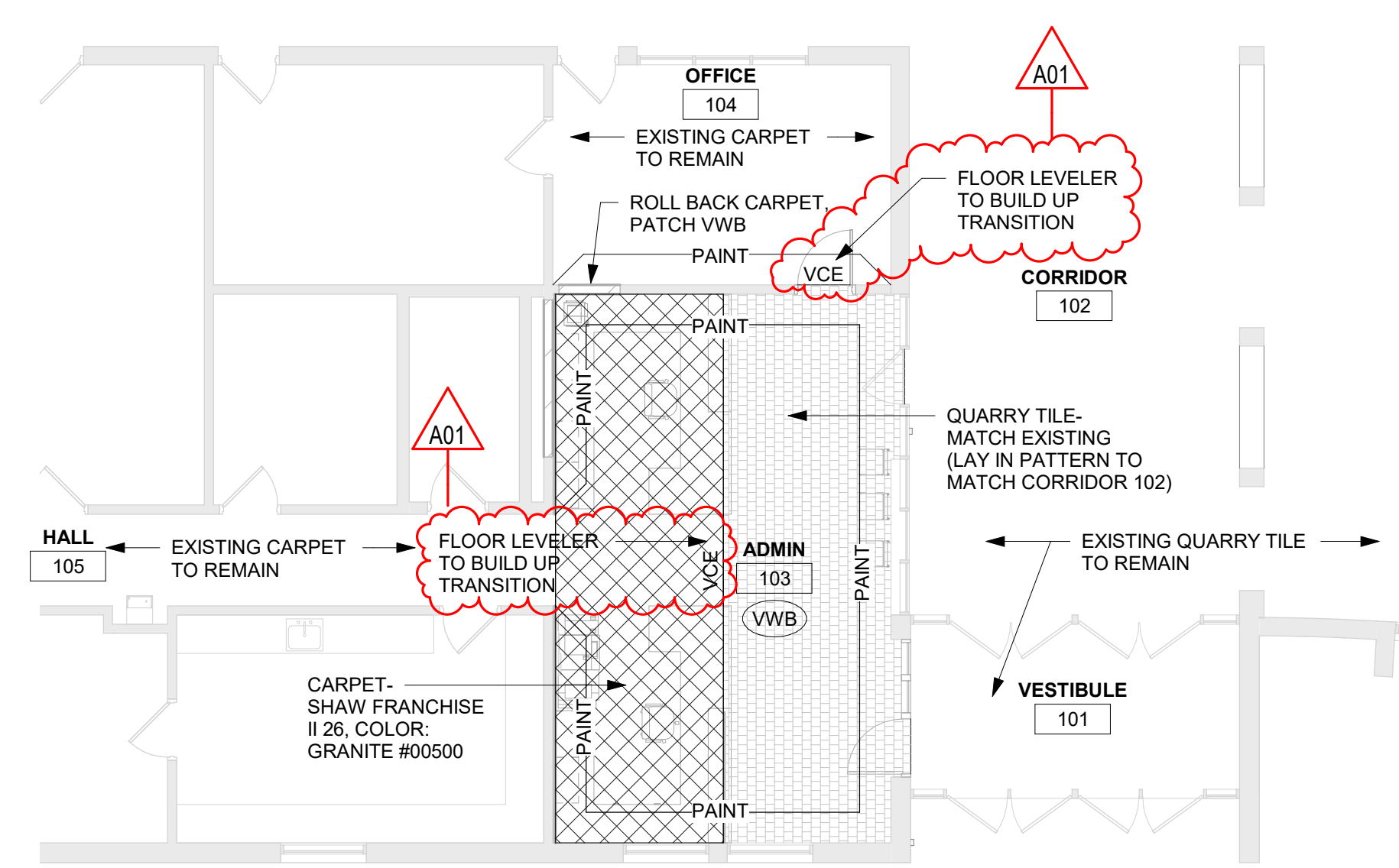
HM = HOLLOW METAL ALUM = ALUMINUM SCWD = SOLID CORE WOOD DOOR

A. SEE SPECIFICATIONS FOR DOOR HARDWARE GROUPS  
 B. ALL HM (HOLLOW METAL) DOORS AND FRAMES SHALL BE PAINTED  
 C. ALL DOUBLE DOORS TO HAVE TWO EQUAL LEAFS UNLESS NOTED OTHERWISE

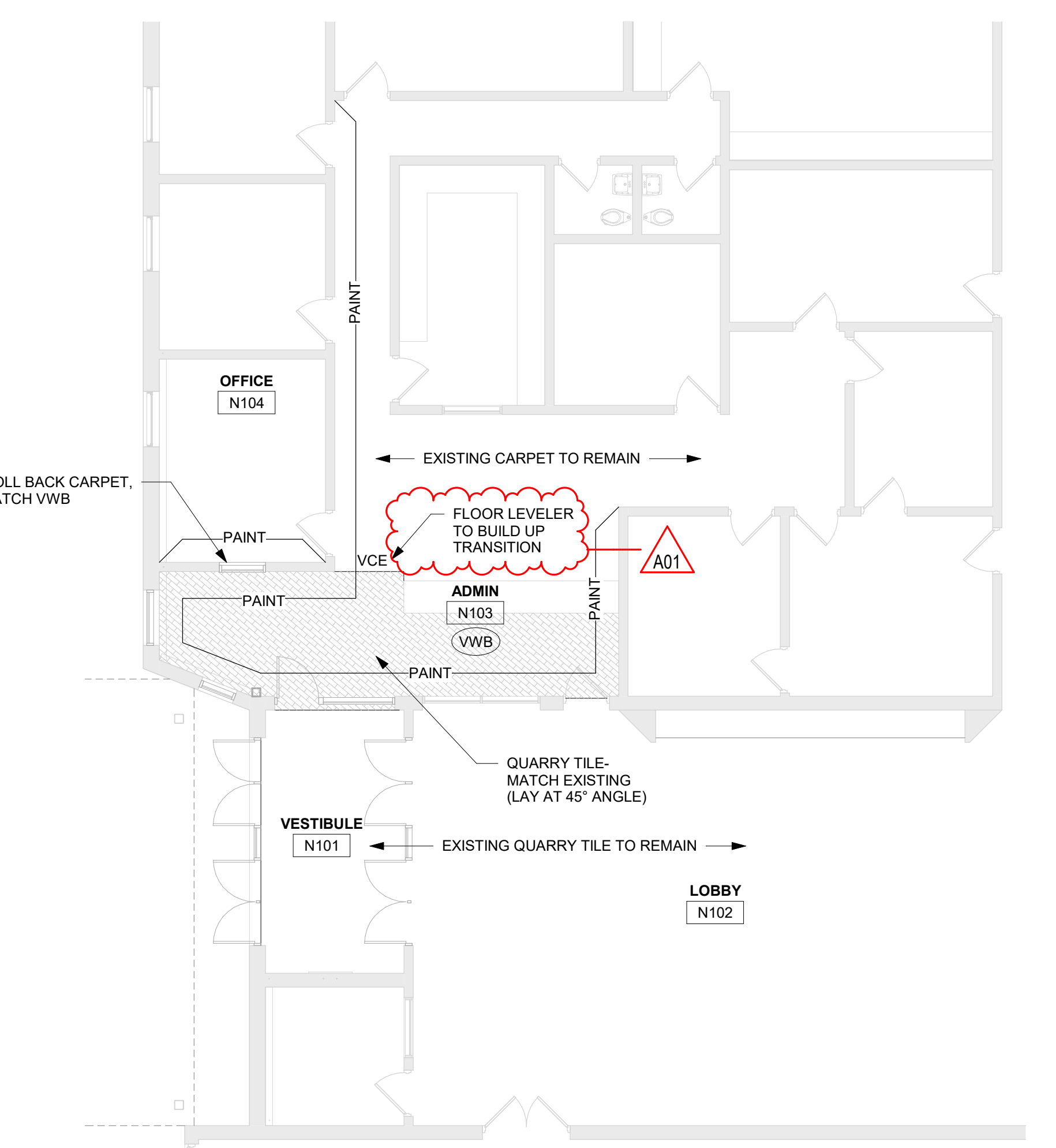
**DOOR TYPES**

**DOOR SCHEDULE REMARKS**

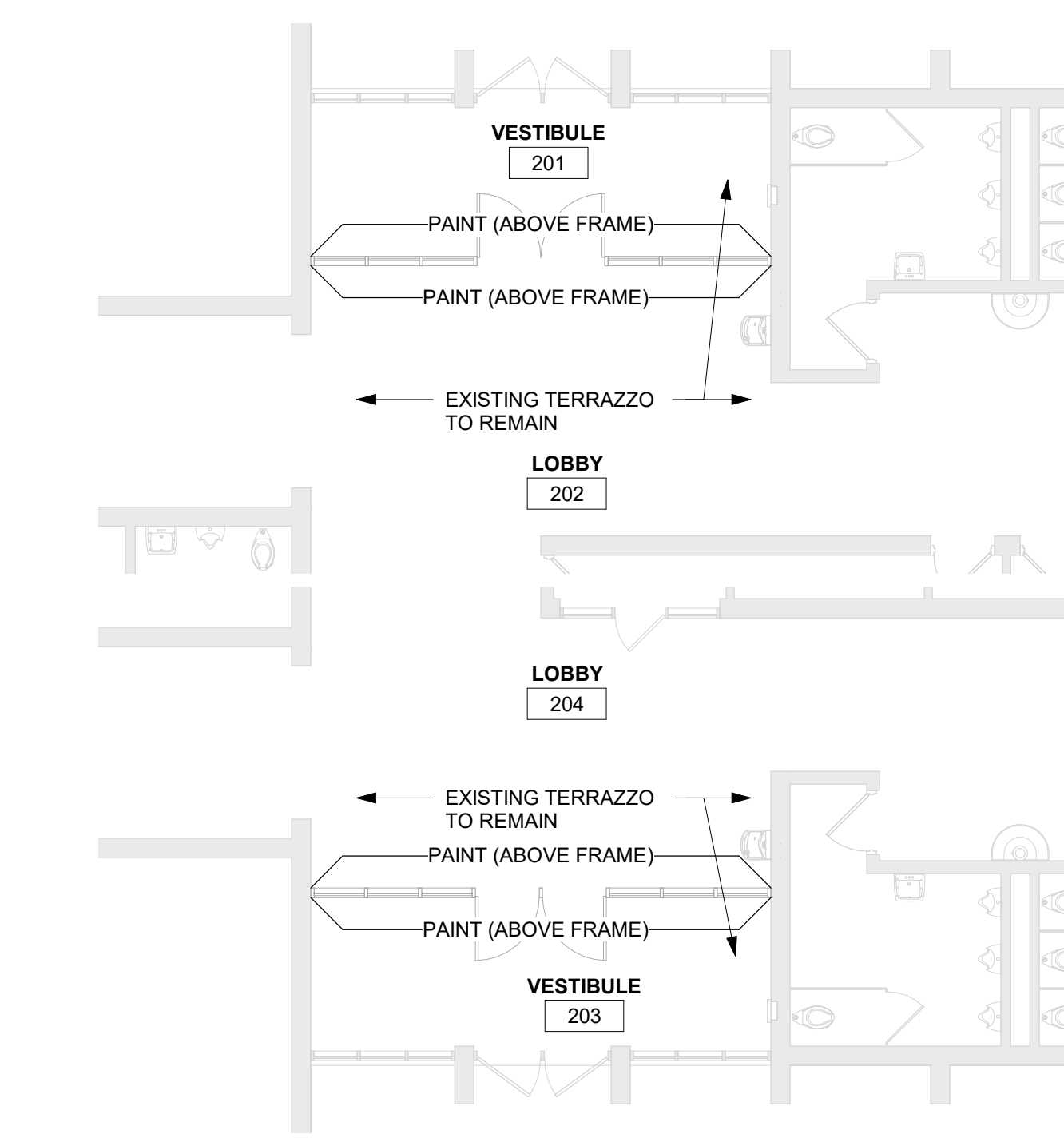
- ELECTRIC STRIKE WITH LOCALIZED CONTROL REQUIRED.
- REMOVABLE MULLION
- AUTOMATIC DOOR OPENER - SEE PLAN FOR ACTUATOR SWITCH LOCATIONS
- NEW DOOR AND FRAME IN EXISTING OPENING - FIELD VERIFY SIZE
- ELECTRIC STRIKE REQUIRED.



**1 PARK FALLS SEGMENT A FINISHES**  
1/8" = 1'-0"



**3 NORTH CAMPUS FINISHES**  
1/8" = 1'-0"



**2 PARK FALLS SEGMENT B FINISHES**  
1/8" = 1'-0"

**FINISHES GENERAL NOTES:**

A. VINYL COMPOSITE EDGE (VCE) TO BE INSTALLED AT DISSIMILAR FINISH AREAS. INSTALL APPROPRIATE EDGE PROFILE TO PROTECT FINISH EDGES.

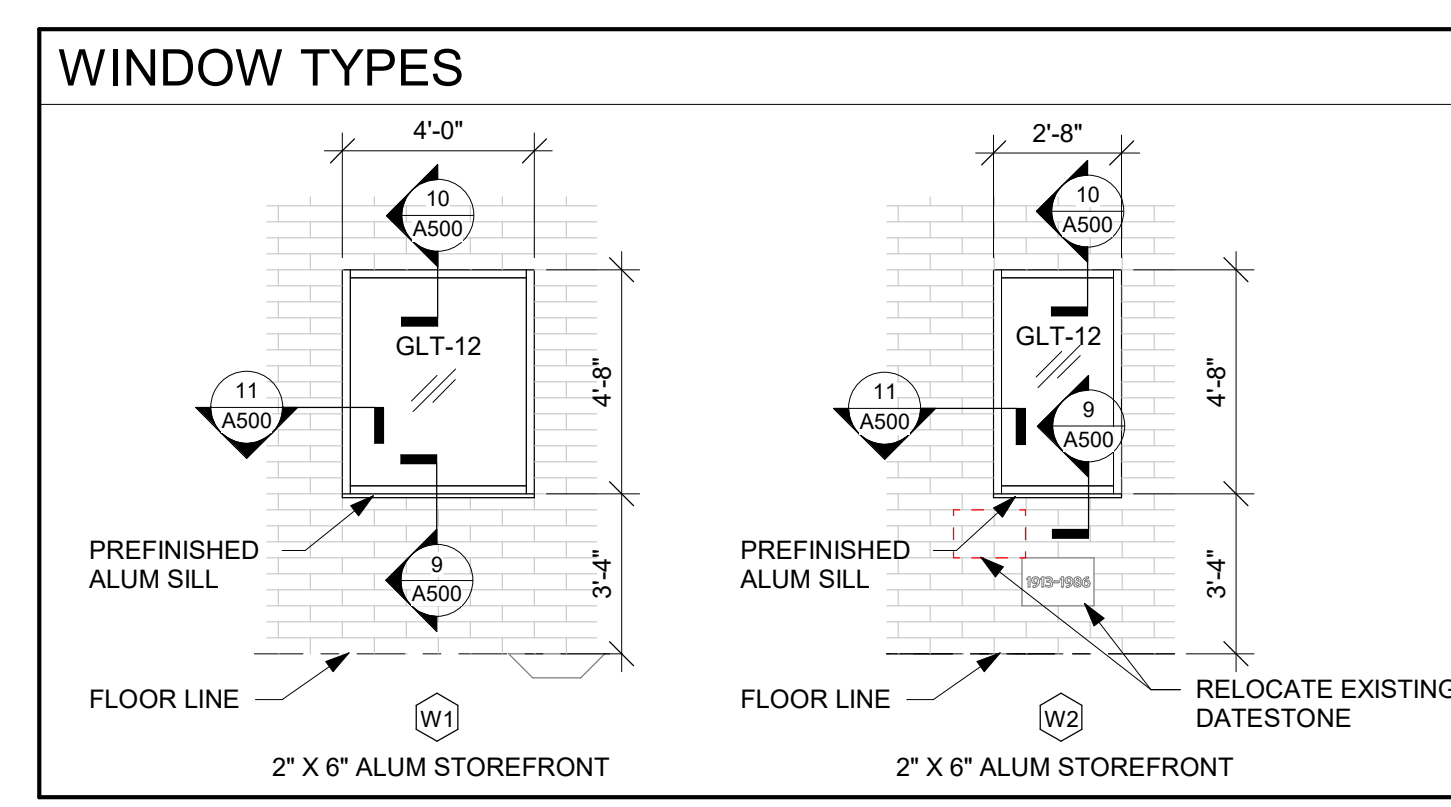
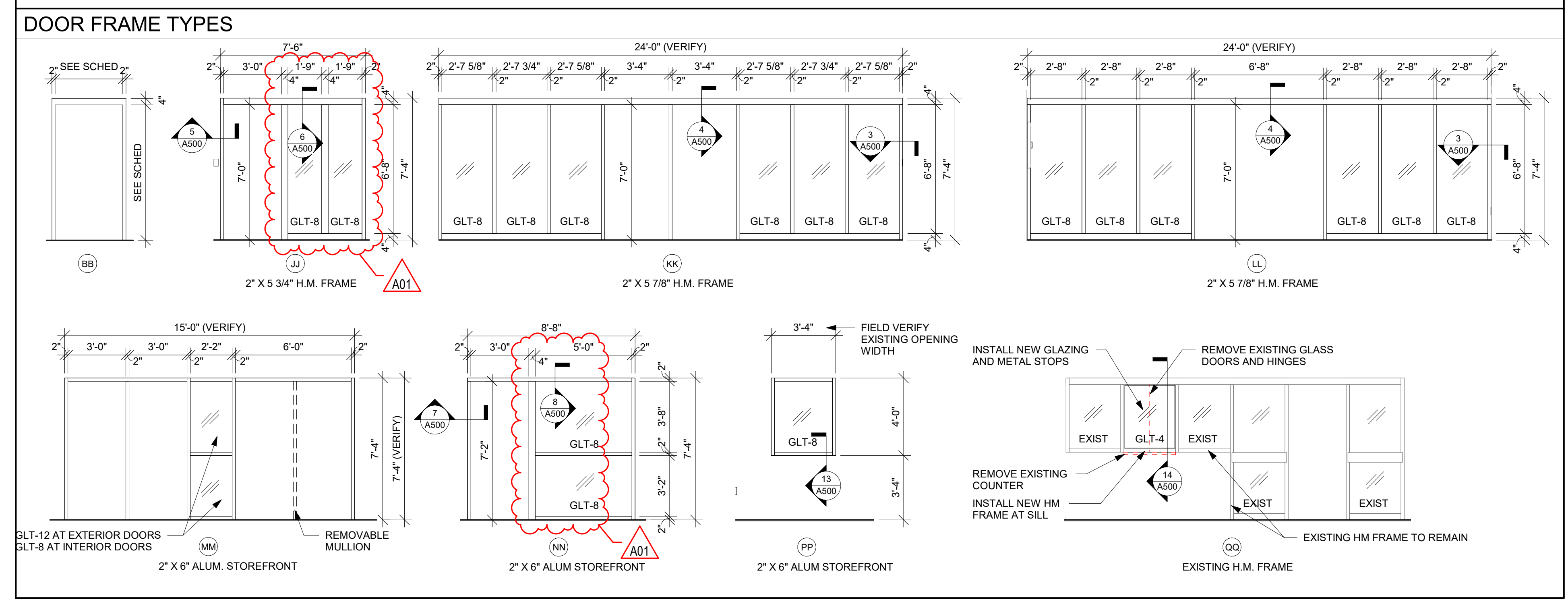
B. AT DISSIMILAR FLOORING FINISHES, SET JOINT OF MATERIALS AT CENTER OF DOOR TRANSITIONS TO BE ADA COMPLIANT.

C. VWB = VINYL WALL BASE

**DOOR FRAME GENERAL NOTES**

HM = HOLLOW METAL ALUM = ALUMINUM

A. ALL HM (HOLLOW METAL) FRAMES SHALL BE PAINTED.



**WALL TYPE GENERAL NOTES:**

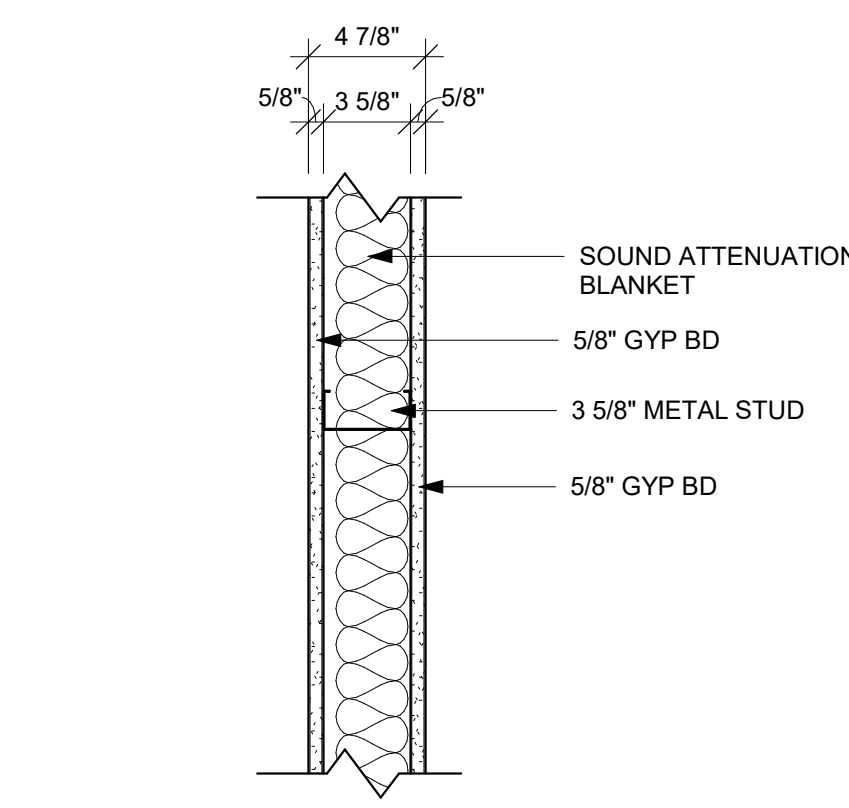
A. NON RATED WALLS, INCLUDING BULKHEADS SHALL HAVE FRAMING EXTENDED TO DECK ABOVE. GYP BOARD SHALL EXTEND TO 4" ABOVE CEILING UNLESS NOTED OTHERWISE. COLUMN FURRING MAY STOP 4" ABOVE CEILING.

B. EXTEND STUDS, GYP BOARD AND SOUND BLANKET TO DECK ABOVE AT SOUND CONTROL WALLS (INDICATED BY SOUND ATTENUATION BLANKETS, SOUND SEAL NOTE OR STC RATING). LEVEL OF FINISH ABOVE CEILING AS NOTED IN SECTION 09 21 16.

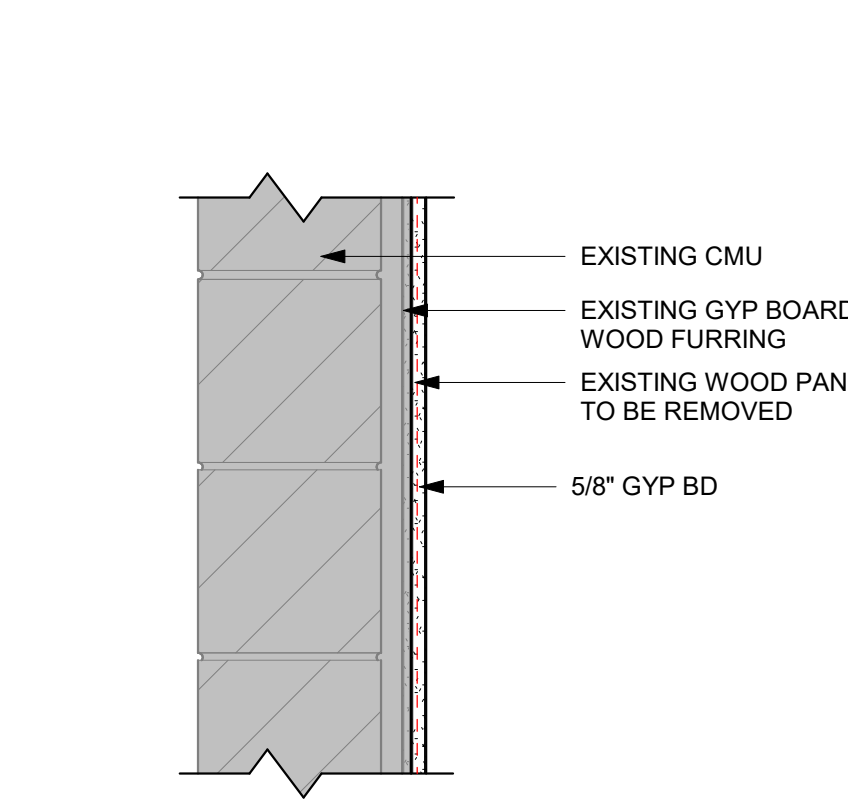
C. AT SOUND CONTROL WALLS (INDICATED BY SOUND ATTENUATION BLANKETS, SOUND SEAL NOTE OR STC RATING), APPLY CONTINUOUS BEAD OF ACOUSTICAL SEALANT AT FLOOR/CEILING TRACK STUDS AND STUD AT WALL. APPLY CONTINUOUS BEAD OF ACOUSTICAL SEALANT AT PERIMETER OF GYP BOARD HOLDING EDGE OF GYP BOARD AWAY FROM ADJACENT STRUCTURE NO MORE THAN 3/8". SEAL ALL ME/PFF PENETRATIONS WITH SOUND BLANKET. BACKING, ACOUSTICAL SEALANT AND FIRE STOPPING. AFTER INSTALLING ONE SIDE OF GYP BOARD, APPLY OVERSIZED 2" SOUND BLANKET OVER BACK SIDE OF ELECTRICAL BOXES AND SIMILAR PENETRATIONS. WHERE WALL BOXES OCCUR AT OPPOSITE SIDES, APPLY INSULATION TO BACKSIDE OF WALL BOXES. AT FIRE RATED WALLS REQUIRING SOUND CONTROL, USE PUTTY PADS FOR REQUIRED WALL RATING. REFER TO TOP OF WALL DETAILS FOR INSTALLATION OF ADDITIONAL MATERIALS AT DECK AND APPLICATION OF RATED TOP OF WALL ASSEMBLIES.

D. INSTALL GYPSUM BOARD CONTROL JOINTS AT TOP OF ALL INTERIOR TOP OF DOOR JAMBS TO TOP OF GYPSUM BOARD WALLS. OTHER CONTROL JOINTS TO BE INSTALLED PER PLAN OR AT 30°-90° C. MAX. REVIEW LOCATION REQUIREMENTS WITH A/E PRIOR TO START OF INSTALLATION OF GYPSUM BOARD ASSEMBLIES.

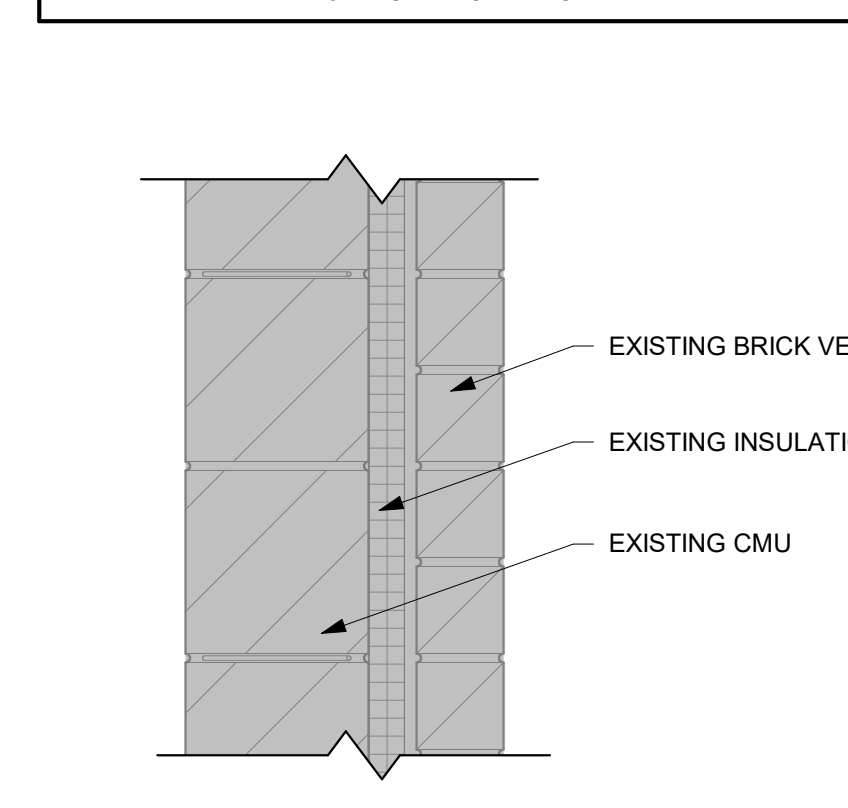
E. WHERE FIRE RATED WALLS ARE INDICATED BY WALL TYPE, USE UL OR EQUIVALENT APPROVED RATING SYSTEM INCLUDING TOP OF WALL AND PENETRATIONS.



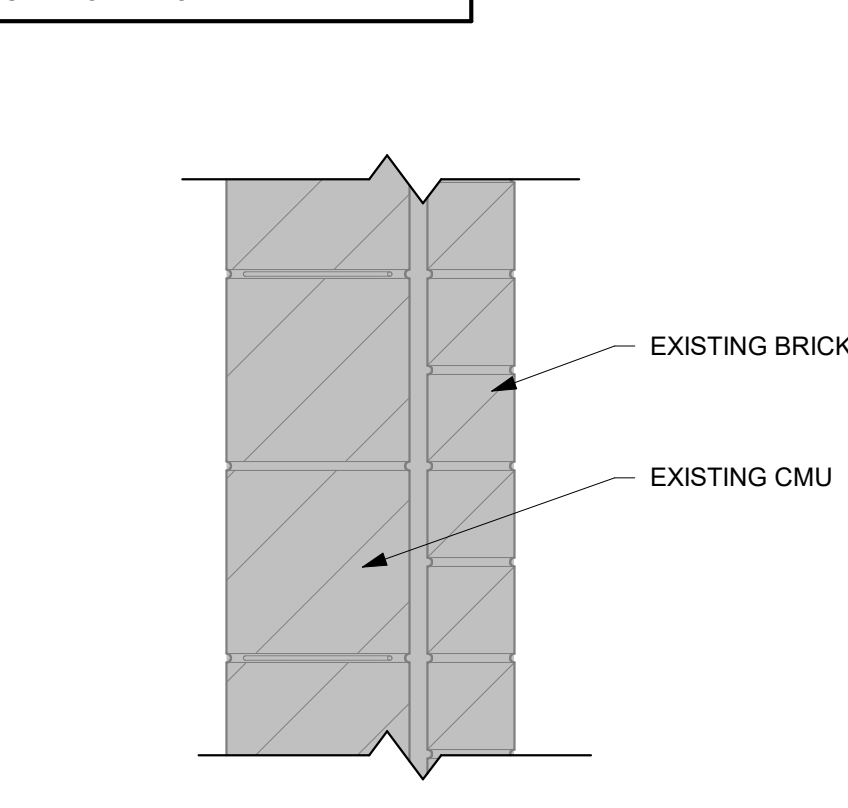
PARTITION TYPE	STUD SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	FIRE RATING	UL #	STC RATING
D7	16" O.C.	4 7/8"	5"	-	-	49



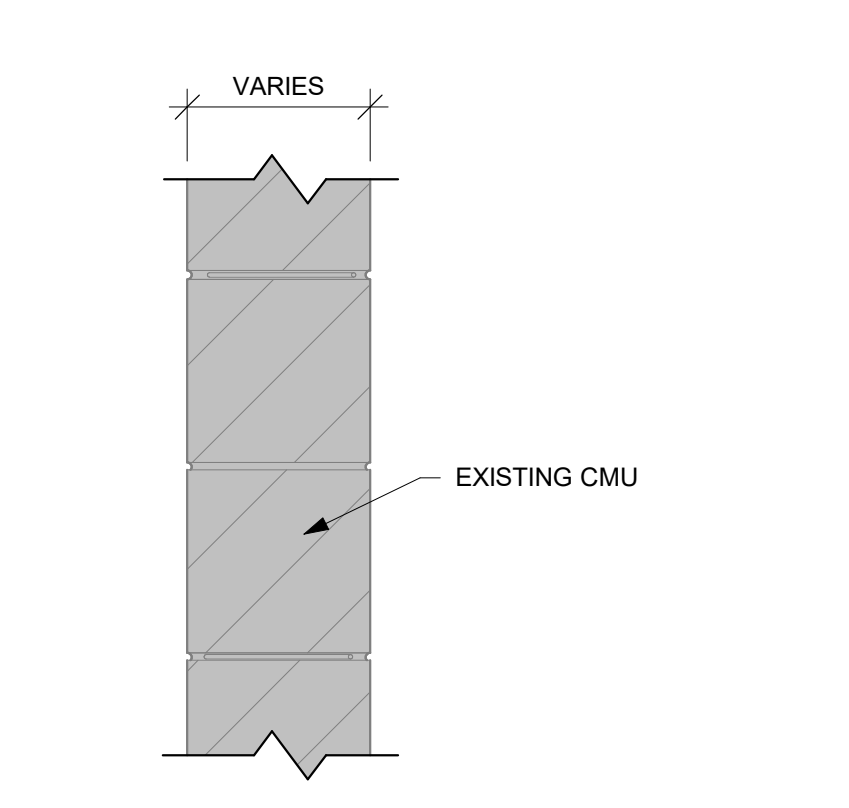
PARTITION TYPE	STUD SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	FIRE RATING	UL #	STC RATING
D10						



PARTITION TYPE	STUD SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	R-VALUE	NOTES
E1					



PARTITION TYPE	STUD SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	R-VALUE	NOTES
E2					



PARTITION TYPE	STUD SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	FIRE RATING	UL #	STC RATING
E3						



ELECTRICAL SYMBOLS			
	LIGHTING FIXTURE - WALL BRACKET *		DISCONNECT SWITCH
	LIGHTING FIXTURE DOWNLIGHT - SURFACE TYPE *		MOTOR STARTER
	LIGHTING FIXTURE DOWNLIGHT - RECESSED *		MOTOR CONNECTION
	LIGHTING FIXTURE(S) - EMERGENCY BATTERY		EQUIPMENT CONNECTION
	LIGHTING FIXTURE (2'x2') - SURFACE TYPE *		PANELBOARD, TERMINAL CABINET
	LIGHTING FIXTURE (2'x2') - RECESSED *		TELEPHONE **
	LIGHTING FIXTURE (2'x2') - EMERGENCY BATTERY		COMBINATION VOICE/DATA OUTLET **
	LIGHTING FIXTURE (2'x4') - SURFACE TYPE *		COMPUTER DATA OUTLET **
	LIGHTING FIXTURE (2'x4') - RECESSED *		FIRE ALARM MANUAL STATION
	LIGHTING FIXTURE (2'x4') - EMERGENCY BATTERY		FIRE ALARM SPEAKER/STROBE
	LIGHTING FIXTURE - OPEN STRIP *		FIRE ALARM STROBE UNIT ONLY
	EXIT SIGN		SMOKE DETECTOR
	ROOM CONTROLLER - LIGHTING		HEAT DETECTOR
	DIMMABLE LIGHTING CONTROL RELAY		FIRE DOOR
	OCCUPANCY SENSOR *		CLOCK
	VACANCY SENSOR *		SPEAKER *
	SWITCH - SINGLE POLE		VOLUME CONTROL
	3 - 3-WAY SWITCH		CALL-IN SWITCH
	4 - 4-WAY SWITCH		GROUND CONNECTION
	OS - WALL SWITCH OCCUPANCY SENSOR*		LEG TO PANEL
	VS - WALL SWITCH VACANCY SENSOR*		NOTE NUMBER (REMOVAL)
	D - DIMMER*		NOTE NUMBER (REMODEL)
	STANDARD SINGLE RECEPTACLE *		EXISTING DEVICE.
	STANDARD DUPLEX RECEPTACLE *		
	*GF - GROUND FAULT INTERRUPTING		
	*WP - WEATHERPROOF COVER		
	*WR - WEATHER RESISTANT		
	*USB - USB CHARGING		
	DOUBLE DUPLEX RECEPTACLE *		

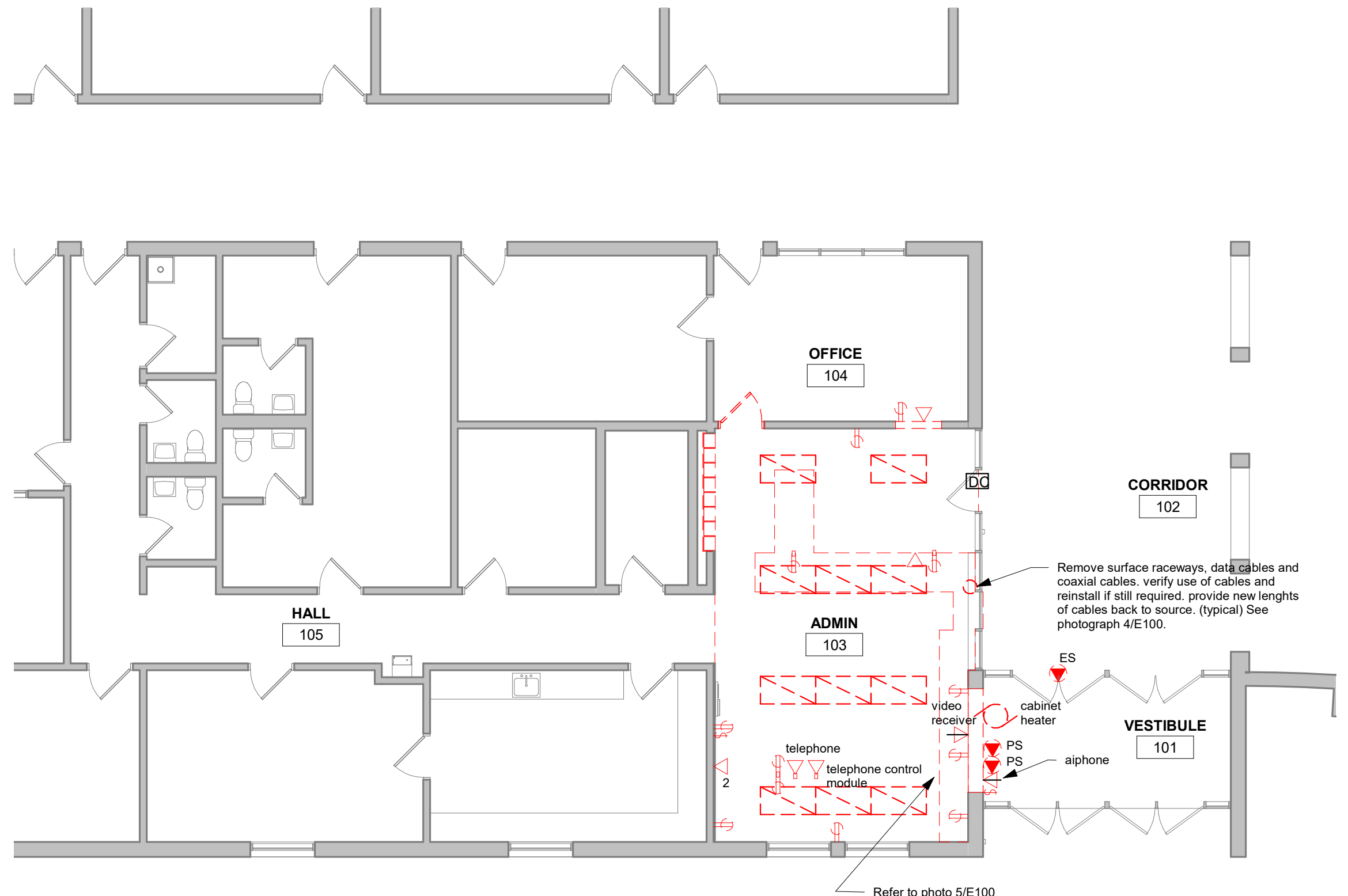
\* TYPE AS INDICATED WITH LETTER/NUMBER, REFER TO SPECIFICATIONS OR SCHEDULES.  
\*\* QUANTITIES OF CABLE DROPS AS INDICATED WITH NUMBER, REFER TO DRAWINGS.  
HEIGHTS AND LOCATIONS AS INDICATED ON DRAWINGS.  
\*\*\* NUMBER REFERS TO LOW VOLTAGE LIGHTING RELAY.



Remove surface raceways, data cables and coaxial cables, verify use of cables and reinstall if still required, provide new lengths of cables back to source.

**4 PHOTO - SURFACE RACEWAYS/CABLES**

1/32" = 1'-0"



**1 REMOVAL - SEG. A**

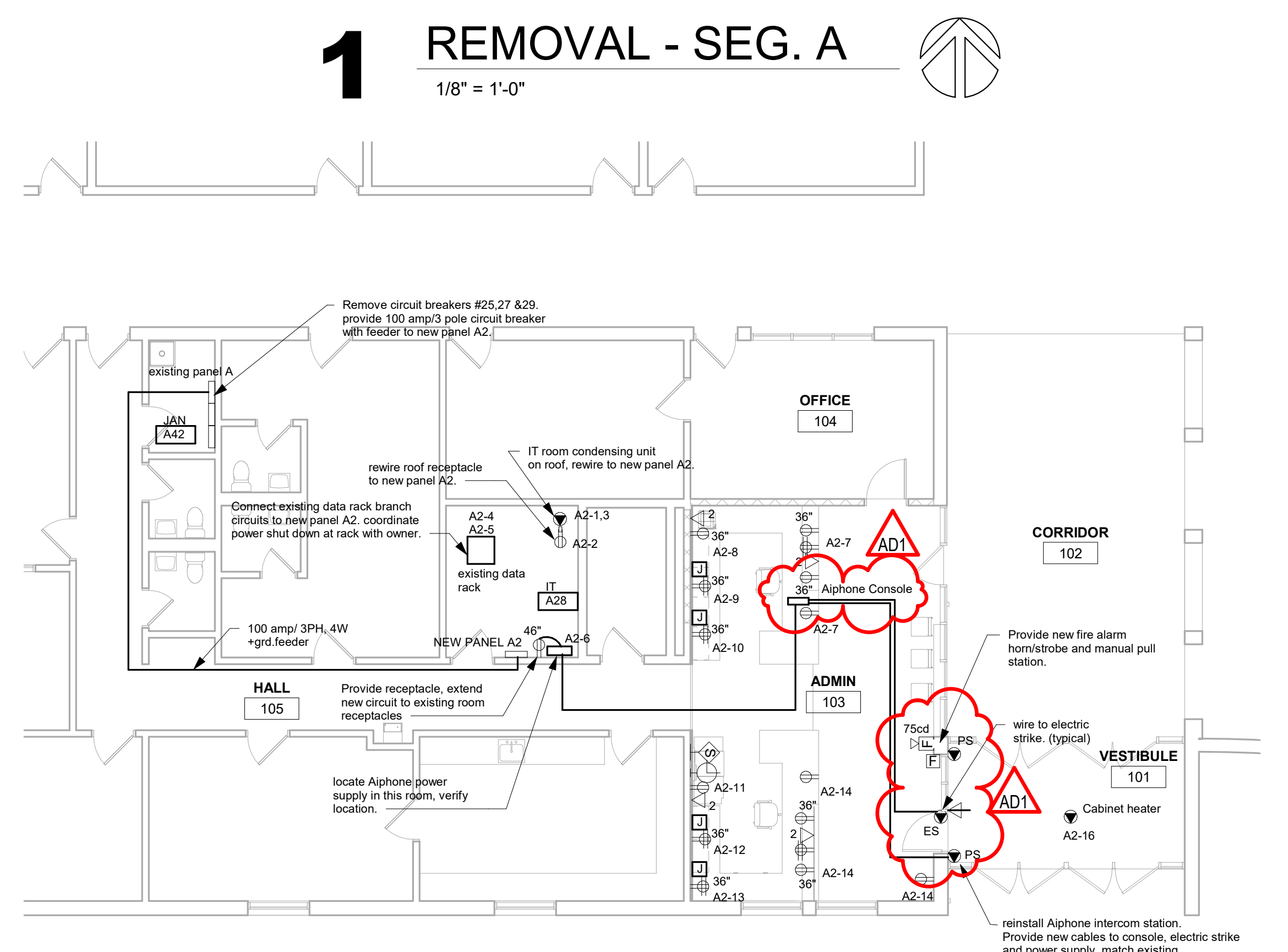
1/8" = 1'-0"



Salvage Aiphone power supply and relocate in IT room A28

**5 PHOTO - WEATHER MONITORING EQUIPMENT**

1/32" = 1'-0"



**2 FIRST FLOOR POWER - SEG. A**

1/8" = 1'-0"

PANEL NAME	ROOM NO.	MFGR. TYPE	MOUNT'G		SIZE	ELECTRICAL SERVICE	MAINS				BRANCHES				REMARK NUMBER
			FLUSH	SURFACE			AMP	LUGS	BREAKER	FEED THRU NO.	NO.	AMP.	POLE	CIRCUIT NUMBERS	
A	JAN A42	SQ D NQ (Existing)	X		208/120 VOLT 3 PH, 4 WIRE	225					1	100	3	FEEDER TO NEW PANEL A2 (REMOVE CIRCUIT BREAKERS #25,27 & 29.)	1
A2	IT A28	SQ D NQ (New)	X	20"	5.75"	208/120 VOLT 3 PH, 4 WIRE	100	X			1	25	2	A2-1,3	30 SPACE
											14	20	1	A2-2, 4-16	
											6	20	1	SPARES	

\* SEE REMARKS  
PANELBOARD SCHEDULE REMARKS:  
1. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD.

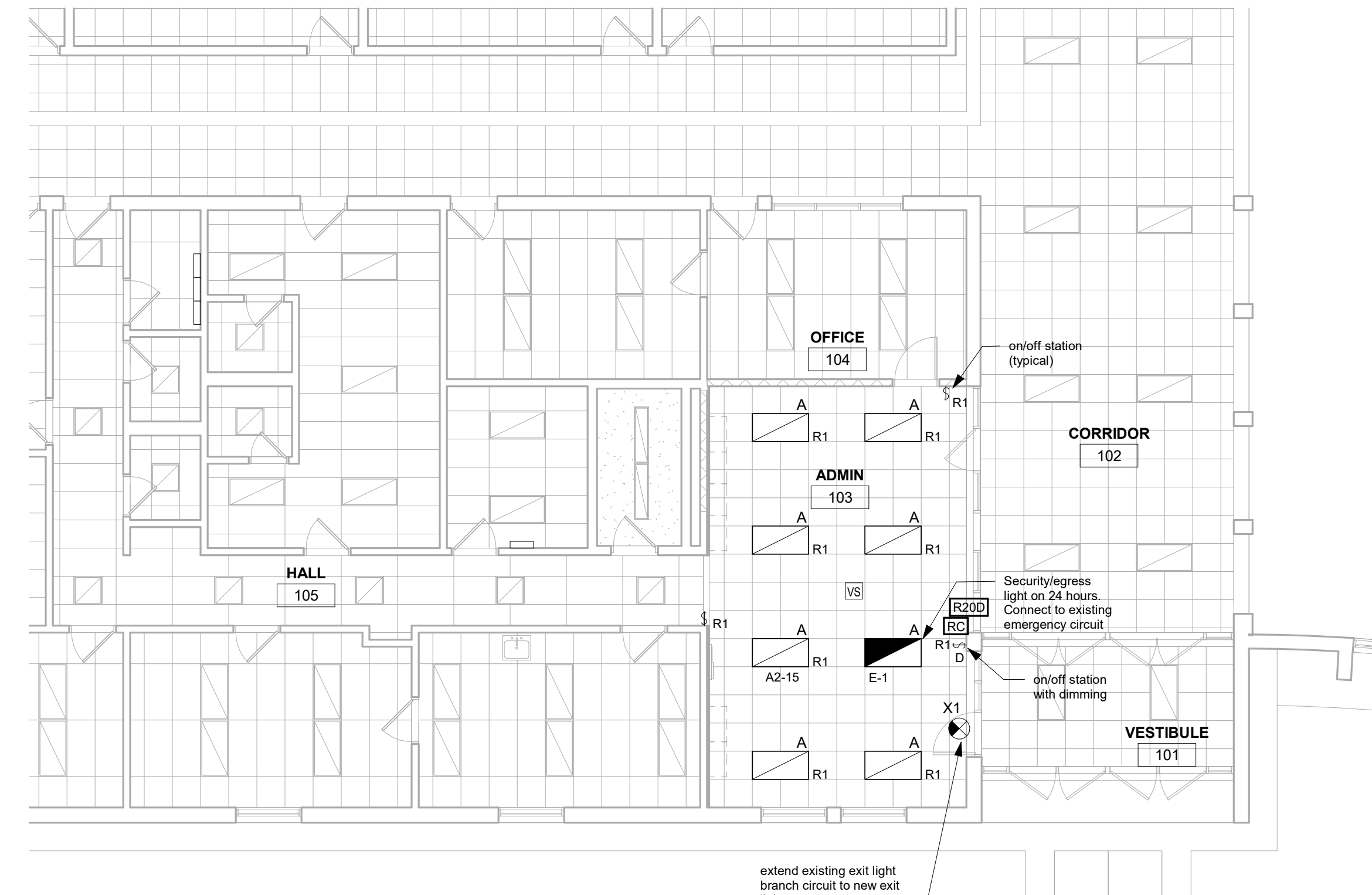
**GENERAL NOTES : REMOVAL**

- A REMOVE ALL ELECTRICAL DEVICES AND ABANDON WIRING/CONDUIT BACK TO ELECTRICAL PANEL, CABINET, RACK OR TERMINATION BOARD.
- B ELECTRICAL CONTRACTOR TO FIELD VERIFY WALLS AND CEILING AND INCLUDE ALL DEVICES FOR REMOVAL.
- C MAINTAIN OPERATION OF ALL EXISTING RECEPTACLES AND DEVICES TO REMAIN. PROVIDE NEW HOMERUNS OF CONDUIT/WIRING WHERE REQUIRED.
- D PROVIDE COVERPLATES AT ALL OPEN DEVICE AND JUNCTION BOXES.
- E REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EQUIPMENT TO BE DISCONNECTED FOR REMOVAL.
- F SALVAGE AIPHONE EQUIPMENT, FIRE ALARM DEVICES, DOOR OPERATORS AND DOOR PUSH STATIONS FOR REINSTALLATION.
- G

**GENERAL NOTES : REMODEL**

- A ALL ELECTRICAL DEVICES SHOWN TO BE NEW UNLESS INDICATED OTHERWISE.
- B MAINTAIN OPERATION OF ALL EXISTING ELECTRICAL DEVICES. EXTEND WIRING/CONDUIT AS REQUIRED.
- C PROVIDE GROUND CONDUCTOR IN ALL RACEWAYS
- D PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR EACH BRANCH CIRCUIT.
- E PROVIDE FIRE STOPPING AND SMOKE DRAFT STOPPING AT ALL CONDUIT PENETRATIONS. REFER TO SPECIFICATIONS SECTION 07840 FOR FIRE RESISTIVE AND NON-FIRE RESISTIVE ASSEMBLIES.
- F EXTEND EXISTING LIGHTING BRANCH CIRCUITS TO NEW LIGHT FIXTURES, UNLESS INDICATED BY A NEW BRANCH CIRCUIT. PROVIDE NEW CONDUIT, WIRING AND HOMERUNS WHERE REQUIRED.
- G DOOR ACCESS SYSTEM IS PROVIDE AND WIRED BY THE SCHOOL DISTRICTS DOOR ACCESS SUPPLIER/VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAYS AND BOXES AS DETAILED, AND AS PER DRAWINGS.

DASHED LINES SPECIFIC ITEMS FOR REMOVAL.  
 REMOVE ALL ELECTRICAL ITEMS IN HATCHED AREAS. SOME LIGHTING AND RECEPTACLES ARE SHOWN FOR REFERENCE ONLY. INCLUDE ALL LIGHTING, RECEPTACLES AND OTHER ELECTRICAL EQUIPMENT, DEVICES NOT SHOWN.



**3 LIGHTING - SEG. A**

1/8" = 1'-0"

TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	VOLT	MOUNTING **				WATTS	COLOR TEMP.	REMARKS
					F	S	P	O			
A	DAYBRITE	2FZP38L840-4-DS-UNV-DIM	2'x4' LED FLAT PANEL 3800 LU	UNIV.	.				29	4000K	1
B	DAYBRITE	2FZP30L840-4-DS-UNV-DIM	2'x4' LED FLAT PANEL 3000 LU	UNIV.	.				23	4000K	1
X1	CHLORIDE	CLXNRW- BATTERY	EXIT LIGHT	UNIV.	.				4	N/A	2
EM	CHLORIDE	CLR2	EMERGENCY LIGHT	UNIV.	.				2.2	LED	

\* SEE REMARKS  
\*\* (F) FLUSH MOUNT; (S) SURFACE MOUNT; (P) PENDANT HUNG; (O) OTHER-SEE REMARKS IN REGARDS TO FIXTURE MOUNTING.

REMARKS  
1. 2'X 4' LED FLAT PANEL  
2. LED EXIT LIGHT, RED LETTERS, EMERGENCY BATTERY AND WHITE HOUSING.

EQUAL FIXTURES:  
a. FIXTURES EQUAL IN ALL RESPECTS TO THE SPECIFIED FIXTURES MANUFACTURED BY, PHILIPS, COOPER LIGHTING, LITHONIA, COLUMBIA, HUBBELL, & DAYBRITE SHALL BE CONSIDERED AS EQUAL.





Consultant:

Project Title: CHEQUAMEGON SCHOOL DISTRICT  
SECURE ENTRY IMPROVEMENTS  
Project Location: PARK FALLS, WISCONSIN  
GLIDDEN, WISCONSIN  
Sheet Title: ELECTRICAL PLANS - SEG. B

HSR Project Number: 21060

Project Date: APRIL 2022

Drawn By: SMG

Key Plan:

BID DOCUMENTS

No.	Description	Date
AD1	Addendum #1	3/14/2022

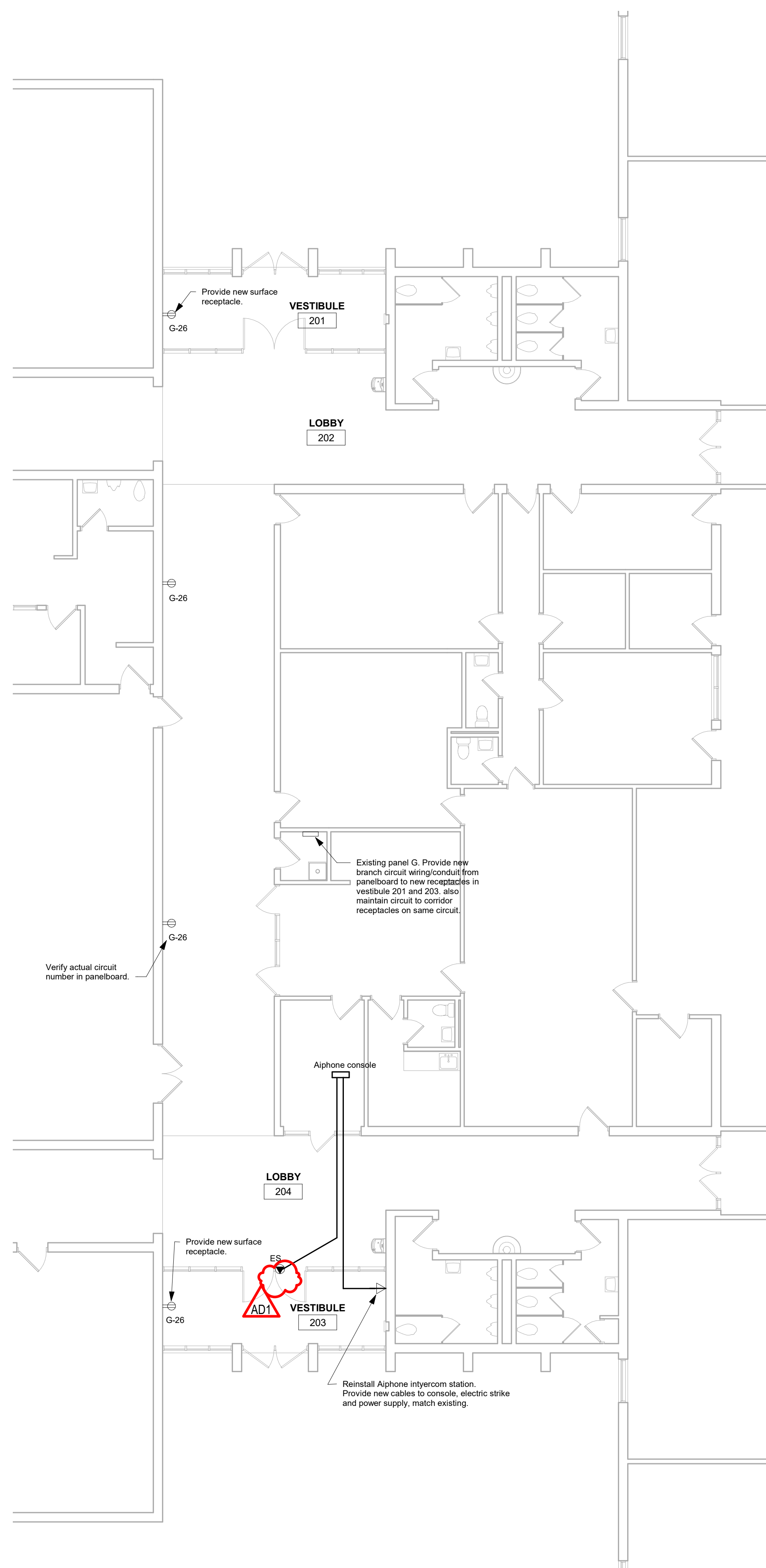
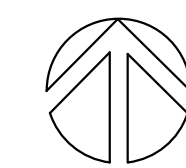
Graphic Scale: VARIES

Last Update: 4/13/2022 4:51:15 PM

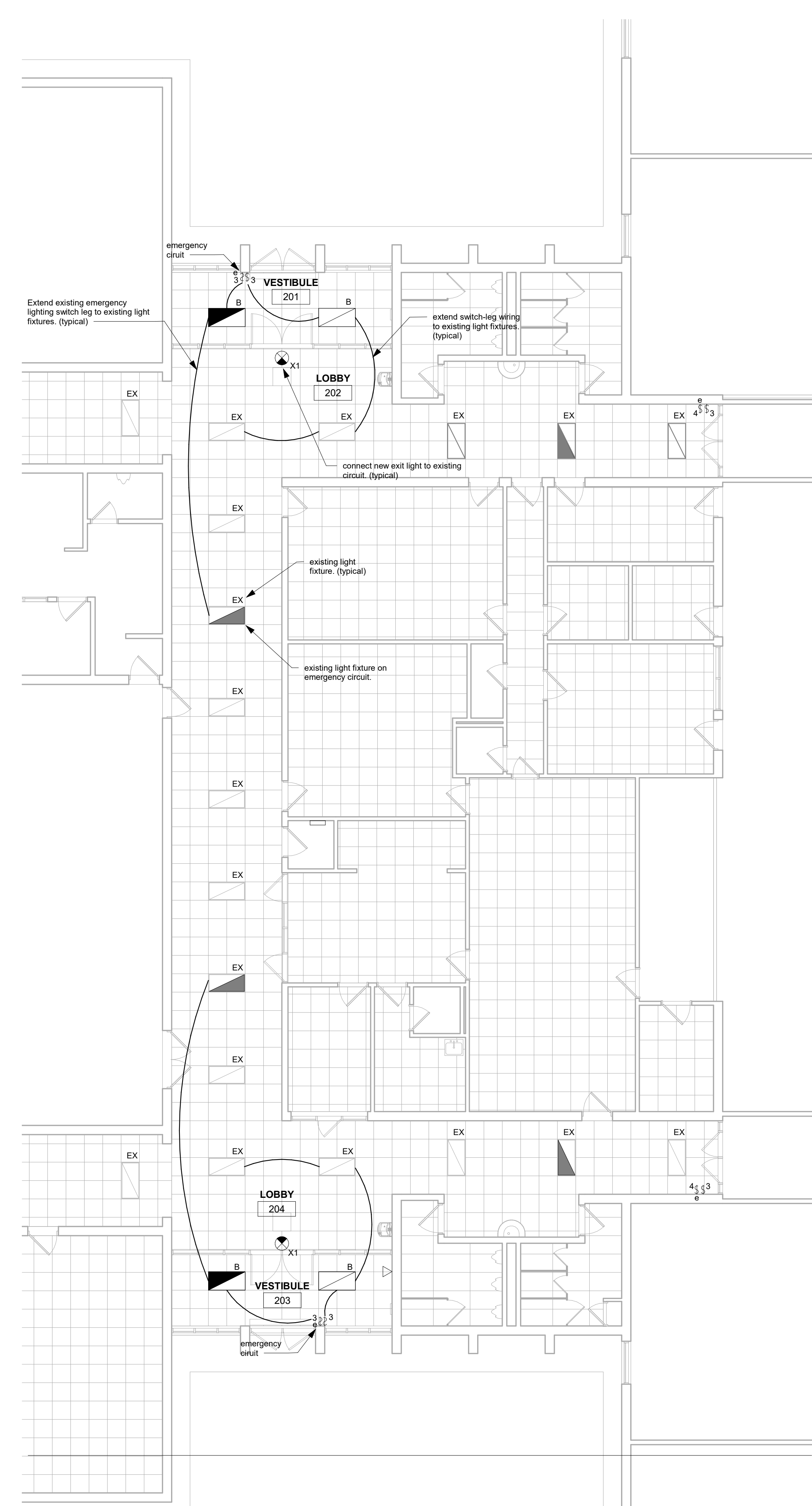
E101



**1** REMOVAL - SEG. B  
1/8" = 1'-0"



**2** FIRST FLOOR POWER- SEG. B  
1/8" = 1'-0"



GENERAL NOTES : REMODEL

- A ALL ELECTRICAL DEVICES SHOWN TO BE NEW UNLESS INDICATED OTHERWISE.
- B MAINTAIN OPERATION OF ALL EXISTING ELECTRICAL DEVICES. EXTEND WIRING/CONDUIT AS REQUIRED.
- C PROVIDE GROUND CONDUCTOR IN ALL RACEWAYS
- D PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR EACH BRANCH CIRCUIT.
- E PROVIDE FIRE STOPPING AND SMOKE DRAFT STOPPING AT ALL CONDUIT PENETRATIONS. REFER TO SPECIFICATIONS SECTION 07840 FOR FIRE RESISTIVE AND NON-FIRE RESISTIVE ASSEMBLIES.
- F EXTEND EXISTING LIGHTING BRANCH CIRCUITS TO NEW LIGHT FIXTURES. UNLESS INDICATED BY A NEW BRANCH CIRCUIT. PROVIDE NEW CONDUIT, WIRING AND HOMERUNS WHERE REQUIRED.
- G DOOR ACCESS SYSTEM IS PROVIDED AND WIRED BY THE SCHOOL DISTRICT'S DOOR ACCESS SUPPLIER/VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAYS AND BOXES AS DETAILED, AND AS PER DRAWINGS.

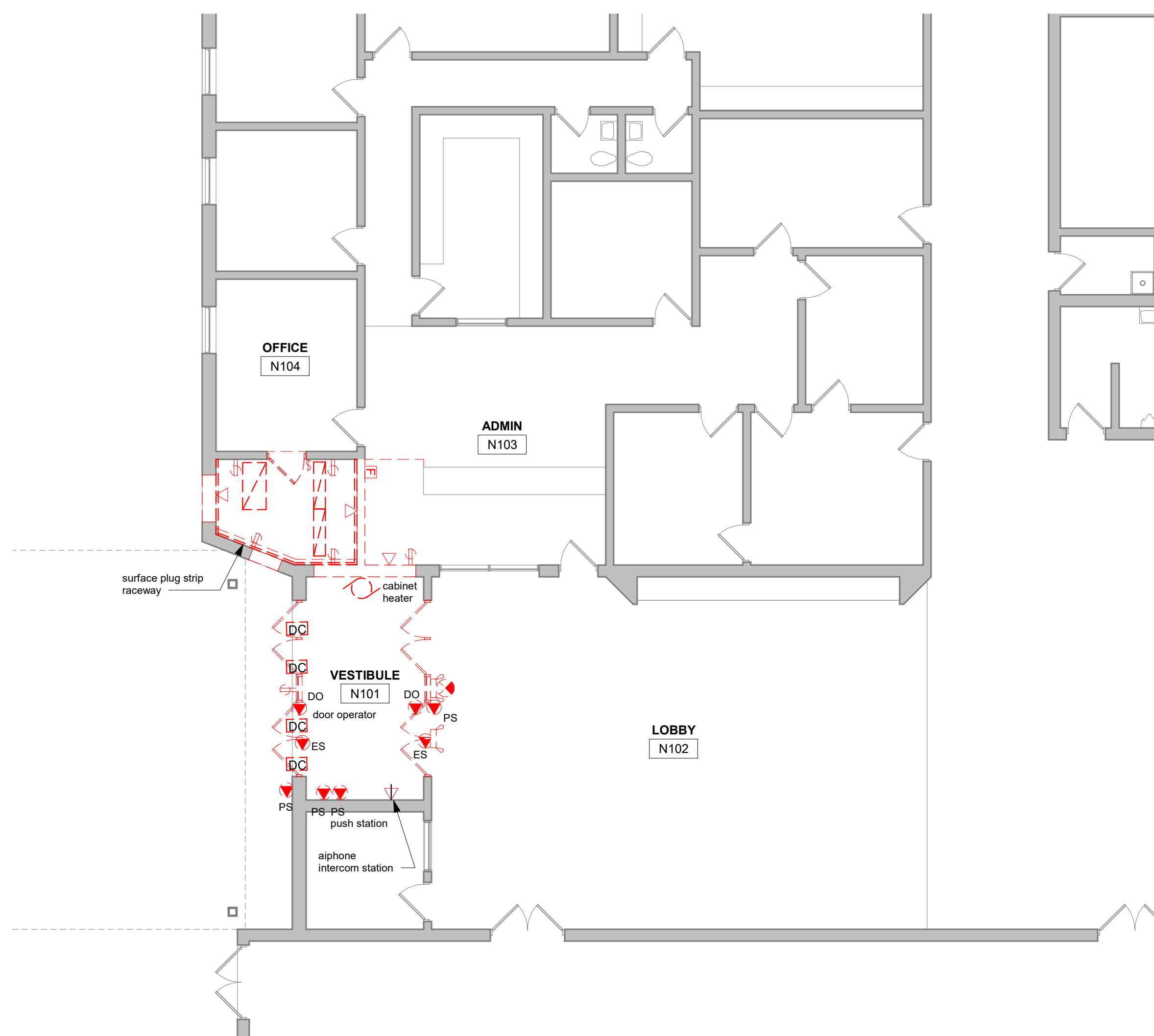
GENERAL NOTES : REMOVAL

- A REMOVE ALL ELECTRICAL DEVICES AND ABANDON WIRING/CONDUIT BACK TO ELECTRICAL PANEL, CABINET, RACK OR TERMINATION BOARD.
- B ELECTRICAL CONTRACTOR TO FIELD VERIFY WALLS AND CEILINGS AND INCLUDE ALL DEVICES FOR REMOVAL.
- C MAINTAIN OPERATION OF ALL EXISTING RECEPTACLES AND DEVICES TO REMAIN. PROVIDE NEW HOMERUNS OF CONDUIT/WIRING WHERE REQUIRED.
- D PROVIDE COVERPLATES AT ALL OPEN DEVICE AND JUNCTION BOXES.
- E REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EQUIPMENT TO BE DISCONNECTED FOR REMOVAL.
- F SALVAGE ALPHONE EQUIPMENT, FIRE ALARM DEVICES, DOOR OPERATORS AND DOOR PUSH STATIONS FOR REINSTALLATION.
- G DASHED LINES SPECIFIC ITEMS FOR REMOVAL.

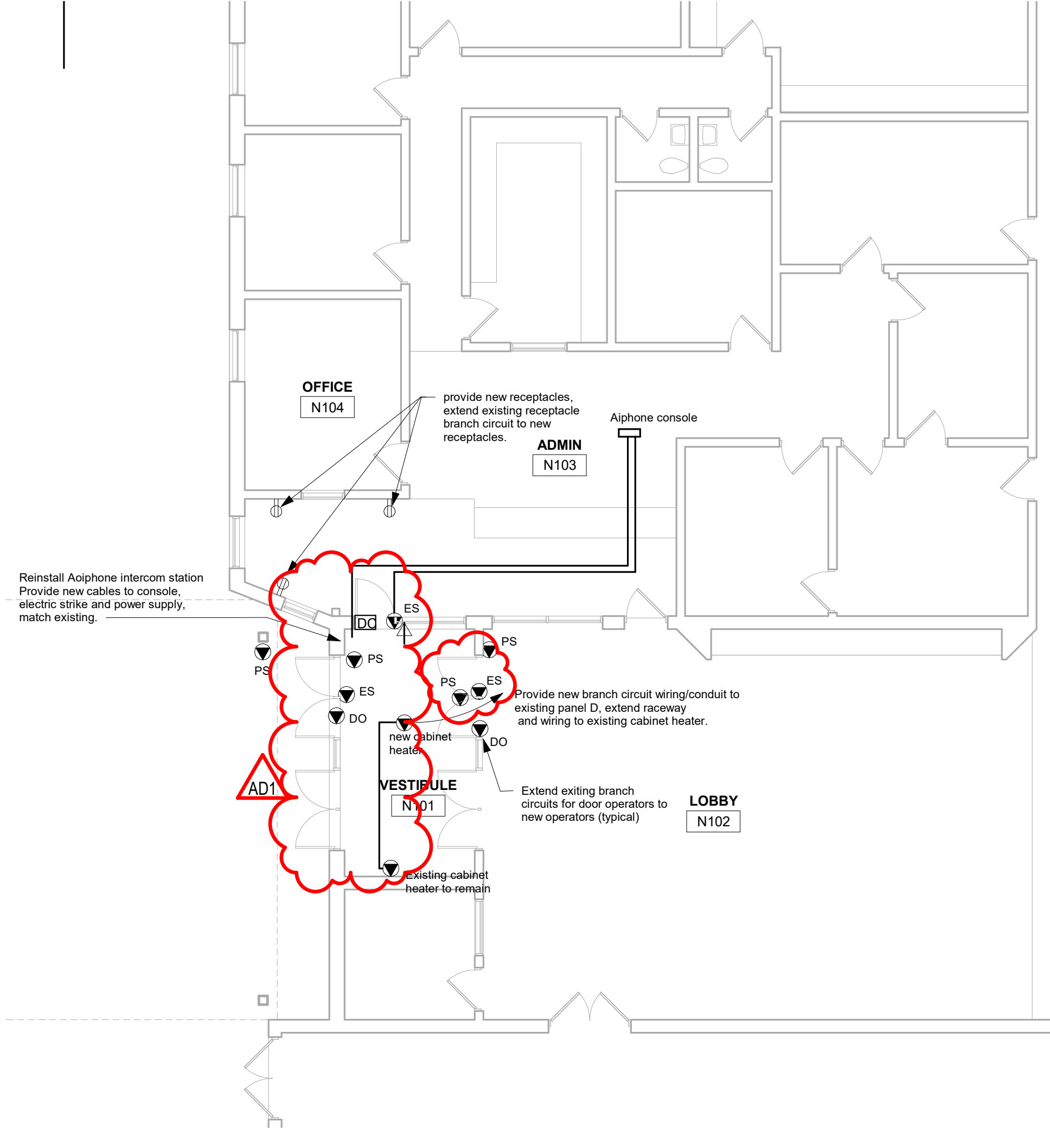
REMOVE ALL ELECTRICAL ITEMS IN HATCHED AREAS. SOME LIGHTING AND RECEPTACLES ARE SHOWN FOR REFERENCE ONLY. INCLUDE ALL LIGHTING, RECEPTACLES AND OTHER ELECTRICAL EQUIPMENT, DEVICES NOT SHOWN.



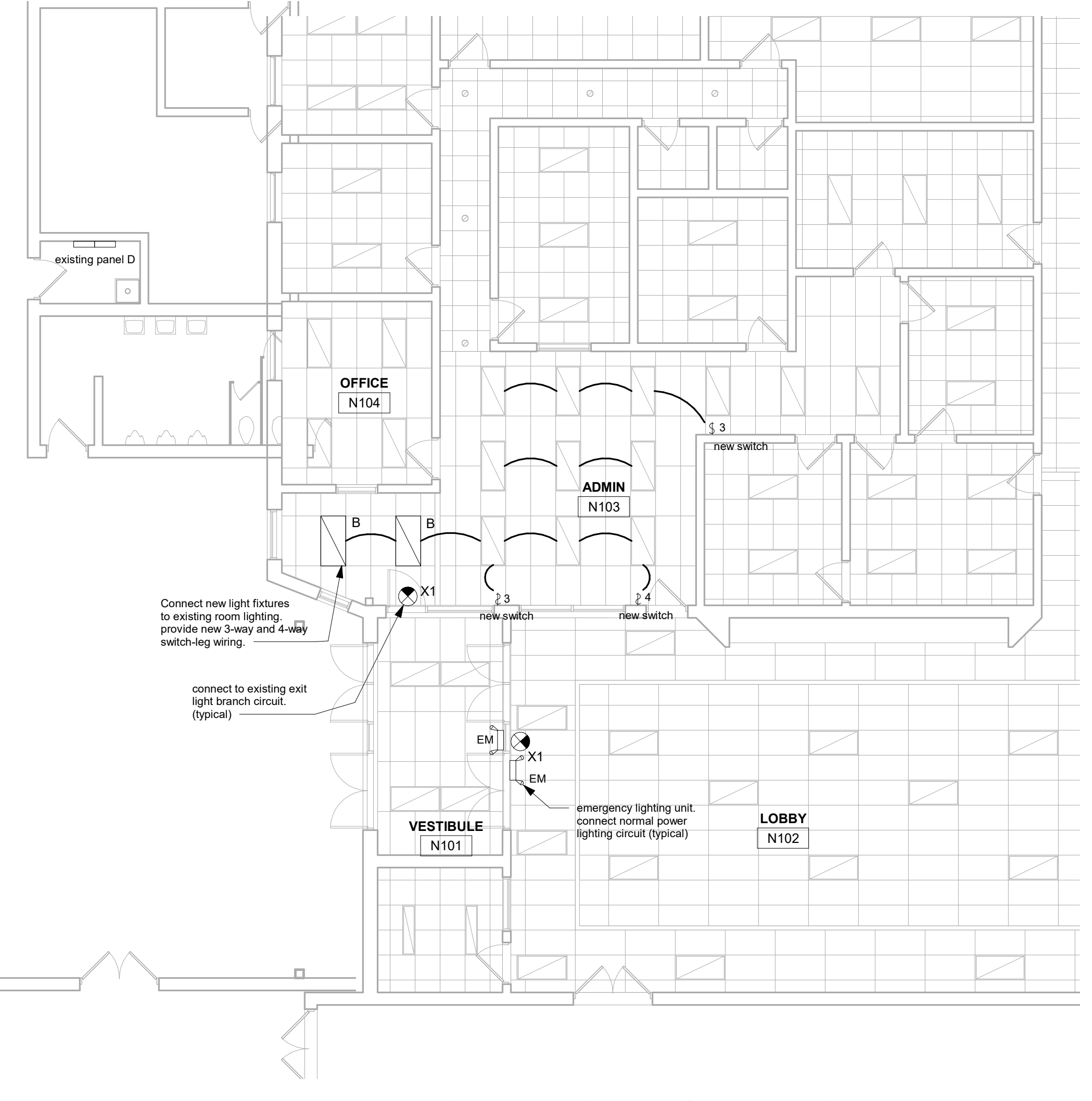
Consultant:



**1** REMOVAL - NORTH CAMPUS  
1/8" = 1'-0"



**2** FIRST FLOOR POWER - NORTH CAMPUS  
1/8" = 1'-0"



**3** LIGHTING - NORTH CAMPUS  
1/8" = 1'-0"

**GENERAL NOTES : REMOVAL**

A REMOVE ALL ELECTRICAL DEVICES AND ABANDON WIRING/CONDUIT BACK TO ELECTRICAL PANEL, CABINET, RACK OR TERMINATION BOARD.

B ELECTRICAL CONTRACTOR TO FIELD VERIFY WALLS AND CEILINGS AND INCLUDE ALL DEVICES FOR REMOVAL.

C MAINTAIN OPERATION OF ALL EXISTING RECEPTACLES AND DEVICES TO REMAIN. PROVIDE NEW HOMERUNS OF CONDUIT/WIRING WHERE REQUIRED.

D PROVIDE COVERPLATES AT ALL OPEN DEVICE AND JUNCTION BOXES.

E REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EQUIPMENT TO BE DISCONNECTED FOR REMOVAL.

F SALVAGE AIPHONE EQUIPMENT, FIRE ALARM DEVICES, DOOR OPERATORS AND DOOR PUSH STATIONS FOR REINSTALLATION.

G DASHED LINES SPECIFIC ITEMS FOR REMOVAL.

REMOVE ALL ELECTRICAL ITEMS IN HATCHED AREAS. SOME LIGHTING AND RECEPTACLES ARE SHOWN FOR REFERENCE ONLY. INCLUDE ALL LIGHTING, RECEPTACLES AND OTHER ELECTRICAL EQUIPMENT. DEVICES NOT SHOWN.

**GENERAL NOTES : REMODEL**

A ALL ELECTRICAL DEVICES SHOWN TO BE NEW UNLESS INDICATED OTHERWISE.

B MAINTAIN OPERATION OF ALL EXISTING ELECTRICAL DEVICES. EXTEND WIRING/CONDUIT AS REQUIRED.

C PROVIDE GROUND CONDUCTOR IN ALL RACEWAYS

D PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR EACH BRANCH CIRCUIT.

E PROVIDE FIRE STOPPING AND SMOKE DRAFT STOPPING AT ALL CONDUIT PENETRATIONS. REFER TO SPECIFICATIONS SECTION 07840 FOR FIRE RESISTIVE AND NON-FIRE RESISTIVE ASSEMBLIES.

F EXTEND EXISTING LIGHTING BRANCH CIRCUITS TO NEW LIGHT FIXTURES, UNLESS INDICATED BY A NEW BRANCH CIRCUIT. PROVIDE NEW CONDUIT, WIRING AND HOMERUNS WHERE REQUIRED.

G DOOR ACCESS SYSTEM IS PROVIDE AND WIRED BY THE SCHOOL DISTRICTS DOOR ACCESS SUPPLIER/VENDOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAYS AND BOXES AS DETAILED, AND AS PER DRAWINGS.

**EQUIPMENT SCHEDULE**

MARK NUMBER	DESCRIPTION	LOCATION ROOM NUMBER	RATING				WIRING SIZE		REMARKS
			KW	HP	VOLT	PH	CONDUCTORS	GRD.	
ES	ELECTRIC DOOR STRIKE	SEE DRWGS.	-		120	1	2 #12	#12	1
DO	DOOR OPERATOR	SEE DRWGS.	-		120	1	2 #12	#12	2
PS	PUSH STATION	SEE DRWGS.	-		24	1	2 #14	#14	2,3

\* SEE REMARKS: MCA - MINIMUM CIRCUIT AMPACITY; FLA - FULL LOAD AMPS; MOP - MAXIMUM OVERCURRENT PROTECTION.

REMARKS

- PROVIDE WIRING FROM AIPHONE TO ELECTRIC DOOR STRIKE
- PROVIDE INTERCONNECTING WIRING/RACEWAY TO PUSH STATIONS AND DOOR OPERATOR.
- VERIFY WIRING SIZE AND QUANTITIES WITH EXISTING EQUIPMENT.

CHEQUAMEGON SCHOOL DISTRICT  
SECURE ENTRY IMPROVEMENTS  
PARK FALLS, WISCONSIN  
GLIDDEN, WISCONSIN  
ELECTRICAL PLANS - NORTH CAMPUS

Project Number: 21060  
Project Date: APRIL 2022  
Drawn By: SMG

Key Plan:

BID DOCUMENTS

Revisions:

No.	Description	Date
AD1	Addendum #1	3/14/2022

Graphic Scale: VARIES  
Last Update: 4/13/2022 4:52:19 PM

**E102**