



August 23, 2023

For: Lenoir County Courthouse – HVAC and Basement Renovations

RECEIPT OF THIS ADDENDUM MUST BE NOTED ON THE BID FORM

ADDENDUM #1

TO ALL BIDDERS:

This addendum supplements and amends the original plans and specifications and shall be taken into account in the preparation of proposals and shall become part of the contract documents.

1. A pre-bid meeting was held at the Lenoir County Courthouse, 130 South Queen Street, Kinston, NC 28501 on Tuesday August 15, 2023, at 2pm.
2. The base bid price shall include all basement work. The original Alternate #1 Add for the basement work is eliminated.
3. Addition of new Alternate #1 Add for North and South stair towers in the 1932 portions of the building is added to repair damaged plaster.
4. Addition of Alternate #2 Deduct. The Base Bid will include night and weekend work for DA offices, clerk of court office, and sheriff's office. Alternate #2 Deduct is for work to be completed during normal business hours with spaces unoccupied. Normal work hours as defined as 7am to 6pm Mon though Fri.
5. The contractor is responsible for removing, storing, and reinstalling ceilings as required for the performance of the work. The design drawings of the original ceiling installation are provided for reference in determining the types of ceilings involved.

Attachments:

- Sign in attendance sheet pre bid walk through 8/15/2023
- Specification Section 090320 Historic Treatment of Plaster (12 pages)
- Form of Proposal - Revised 8/23/2023
- A1.1 Basement Demolition & Dimension Plans - Revised 8/23/2023
- A1.2 Basement Reference Plan and Reflected Ceiling Plan – Revised 8/23/2023
- DM1.0 Basement Demo Plan 8/23/2023
- DM1.1 1st Floor Demo Plan 8/23/2023
- DM1.2 2nd Floor Demo Plan 8/23/2023
- DM1.3 3rd Floor and Mezzanine Demo Plan 8/23/2023
- DM1.4 4th Floor and Roof Demo Plan 8/23/2023
- M0.1 Mechanical legend and Notes 8/23/2023
- M0.2 Mechanical Schedules 8/23/2023

- M0.6 Mechanical Details 8/23/2023
- M0.7 Mechanical Details 8/23/2023
- M1.0 Mechanical Basement Plan 8/23/2023
- M1.1 Mechanical 1st Floor Plan 8/23/2023
- M1.2 Mechanical 2nd Floor Plan 8/23/2023
- M1.3 Mechanical 3rd Floor and Mezzanine Plan 8/23/2023
- M1.4 Mechanical 4th Floor and Roof Plan 8/23/2023
- M-PH2.0 Phase 2 Mechanical Basement Plans 8/23/2023
- M-PH2.1 Phase 2 Mechanical 1st Floor Plans 8/23/2023
- M-PH2.2 Phase 2 Mechanical 2nd Floor Plans 8/23/2023
- M-PH2.3 Phase 2 Mechanical 3rd Floor and Mezzanine Plans 8/23/2023
- M-PH2.4 Phase 2 Mechanical 4th Floor and Roof Plans 8/23/2023
- M-PH3.1 Phase 3 Mechanical 1st Floor Plans 8/23/2023
- M-PH3.2 Phase 3 Mechanical 2nd Floor Plans 8/23/2023
- M-PH3.3 Phase 3 Mechanical 3rd Floor and Mezzanine Plans 8/23/2023
- M-PH3.4 Phase 3 Mechanical 4th Floor and Roof Plans 8/23/2023
- M-PH4.1 Phase 4 Mechanical 1st Floor Plans 8/23/2023
- M-PH4.2 Phase 4 Mechanical 2nd Floor Plans 8/23/2023
- M-PH4.3 Phase 4 Mechanical 3rd Floor and Mezzanine Plans 8/23/2023
- M-PH4.4 Phase 4 Mechanical 4th Floor and Roof Plans 8/23/2023
- P0.1 Plumbing Legends and Notes 8/23/2023
- E0.1 Electrical Legends and Notes 8/23/2023
- E0.5 Electrical Panel Schedules 8/23/2023
- E0.8 Electrical Schedules 8/23/2023
- E1.0 Electrical Basement Plan – Power 8/23/2023
- E1.3 Electrical 3rd Floor and Mezzanine Plan
- E1.4 Electrical 4th Floor and Roof Plan 8/23/2023

Jenkins Peer Architects Plans for Reference Only

- A6 Basement Floor Reflected Ceiling Plan 4/23/1981
- A7 First Floor Reflected Ceiling Plan 4/23/1981
- A8 Second Floor Reflected Ceiling Plan 4/23/1981
- A9 Mezzanine Floor Reflected Ceiling Plan 4/23/1981

END OF ADDENDUM #1

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**Lenoir County Courthouse
Interior Renovation
130 South Queen Street
Kinston, Lenoir County, NC**

SECTION 090320 - HISTORIC TREATMENT OF PLASTER

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Repair and replacement of interior gypsum plaster.

B. Related Requirements:

1. Section 061000 "Rough Carpentry" for wood framing, grounds, and furring that support lath and plaster.
2. Section 092216 "Non-Structural Metal Framing" for non-load-bearing steel framing and furring that support lath and plaster.
3. Section 092613 "Gypsum Veneer Plastering" for gypsum-based veneer plaster applied on gypsum base for veneer plaster, unit masonry, and monolithic concrete.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Review methods and procedures related to historic treatment of plaster including, but not limited to, the following:
 - a. Materials, material application, colors, patterns, and sequencing.
 - b. Fire-protection plan.
 - c. Plasterwork historic treatment program.
 - d. Coordination with building occupants.

1.3 SEQUENCING AND SCHEDULING

A. Perform historic treatment of plaster in the following sequence, which includes work specified in this and other Sections:

1. Dismantle existing surface-mounted objects and hardware that overlie plaster surfaces except items indicated to remain in place. Tag items with location identification and protect.
2. Verify that temporary protections have been installed.
3. Examine condition of plaster surfaces.
4. Clean plaster surface and remove paint and other finishes to the extent required.
5. Repair and replace existing plaster and supports to the degree required for a uniform, tightly adhered surface on which to paint or apply other finishes.
6. Cure repaired surfaces and allow them to dry for proper finishing.

**Lenoir County Courthouse
Interior Renovation
130 South Queen Street
Kinston, Lenoir County, NC**

7. Paint and apply other finishes.
8. Reinstall dismantled surface-mounted objects and hardware unless otherwise indicated.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 1. Include recommendations for product application and use.
- B. Samples for Initial Selection: For each exposed product that will be exposed and not be painted or otherwise finished and for each color and texture specified.

1.5 QUALITY ASSURANCE

- A. Mockups: Prepare mockups of historic treatment processes for each type of plaster repair and reconstruction work to demonstrate aesthetic effects and to set quality standards for materials and execution and for fabrication and installation.
 1. Locate mockups on existing surfaces where directed by Architect.
 2. Simulate finished lighting conditions for review of mockups.
 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver packaged materials to Project site in manufacturer's original and unopened containers, labeled with manufacturer's name and type of products.
- B. Store materials on elevated platforms, under cover, and in a dry location with ambient temperatures continuously maintained at not less than **45 deg F**.
- C. Store hydrated lime and factory-prepared lime putty in manufacturer's original and unopened containers. Discard lime if containers have been damaged or have been opened for more than two days.
- D. Store materials not in use in tightly covered containers.
- E. Store lime putty covered with water in sealed containers.
- F. Store sand where grading and other required characteristics can be maintained and contamination avoided.
- G. Handle cast-plaster fabrications to prevent overstressing, chipping, defacement, and

**Lenoir County Courthouse
Interior Renovation
130 South Queen Street
Kinston, Lenoir County, NC**

other damage.

1.7 FIELD CONDITIONS

- A. Comply with plaster-material manufacturers' written instructions. For gypsum plaster, also comply with ASTM C842 requirements.
- B. Temperatures: Maintain temperatures in work areas at not less than **55 deg F** or greater than **80 deg F** for at least seven days before application of plaster, continuously during application, and for seven days after plaster has set or until plaster has dried.
- C. Conditioning: Acclimatize cast-plaster fabrications to ambient temperature and humidity of spaces in which they are installed. Remove packaging and move units into installation spaces not less than 48 hours before installing them.
- D. Field Measurements: Where cast-plaster fabrications are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- E. Avoid conditions that result in plaster drying out too quickly.
 - 1. Distribute heat evenly; prevent concentrated or uneven heat on plaster.
 - 2. Maintain relative humidity levels for prevailing ambient temperature that produce normal drying conditions.
 - 3. Ventilate work areas in a manner that prevents drafts of air from contacting surfaces during plaster application and until plaster is dry.

PART 2 - PRODUCTS

2.1 GYPSUM PLASTER MATERIALS

- A. Gypsum Materials:
 - 1. Lightweight Gypsum Ready-Mixed Plaster: ASTM C28/C28M, with mill-mixed perlite aggregate.
 - 2. Gypsum Neat Plaster: ASTM C28/C28M for use with job-mixed aggregates.
 - 3. Gypsum Wood-Fibered Plaster: ASTM C28/C28M.
 - 4. High-Strength Gypsum Neat Plaster: ASTM C28/C28M; with a minimum, average, dry compressive strength of **2800 psi** per ASTM C472 for a mix of **100 lb** of plaster and **2 cu. ft.** of sand.
 - 5. Gypsum Gaging Plaster. ASTM C28/C28M.
 - 6. High-Strength Gypsum Gaging Plaster: ASTM C28/C28M; with a minimum, average, dry compressive strength of **5000 psi** per ASTM C472 for a neat mix.
 - 7. Gypsum Ready-Mixed Finish Plaster: ASTM C28/C28M; manufacturer's standard, mill-mixed, gaged, interior finish.
 - 8. Gypsum Keene's Cement: ASTM C61/C61M.

**Lenoir County Courthouse
Interior Renovation
130 South Queen Street
Kinston, Lenoir County, NC**

- B. Hydrated Lime: ASTM C206, [**Type S**] [**or**] [**Type N**].
- C. Aggregates:
 - 1. Aggregate for Base-Coat Plasters: ASTM C35, [**sand**] [**perlite**].
 - 2. Aggregate for Float Finishes: ASTM C35, [**sand**] [**perlite**]; graded per ASTM C842.
- D. Fiber: **1/2 to 1 inch** in length; composed of glass or polypropylene fiber free of grease, waxes, and oils; and beaten well to separate fibers before blending into unfibered plaster material.
 - 1. Proportion of Fiber to Unfibered Plaster Material: **3.5 oz./cu. ft. of unfibered plaster material**, adjusted as required to produce a well-fibered, cohesive, spreadable, stiff mix with fibers uniformly distributed.
- E. Fabric Reinforcing: [**Coarse, open-weave, sackcloth made of natural linen, cotton, hemp, or jute; free of grease and oils**] [**Coarse, open-weave, alkali-resistant fiberglass or polypropylene fabric**] <Insert requirement>; free of grease, waxes, and oils.
- F. Bonding Compound: ASTM C631.

2.2 LATH

- A. Wood Lath: [**1/4 inch by 1-1/4 inch**] sound, straight-grained, wood strips
- B. Metal Lath:
 - 1. Expanded-Metal Lath: ASTM C847, cold-rolled carbon-steel sheet, ASTM A653/A653M, **G60**, hot-dip galvanized zinc coated.
 - a. Paper Backing: Kraft paper factory bonded to back of lath.
 - b. Diamond-Mesh Lath: [**Flat**] [**Self-furring**], [**2.5 lb/sq. yd.**]
 - c. Flat Rib Lath: Rib depth of not more than **1/8 inch**, [**2.75 lb/sq. yd.**]
 - d. **3/8-Inch** Rib Lath: [**3.4 lb/sq. yd.**]

2.3 TRIM ACCESSORIES

- A. General: According to **ASTM C841 for gypsum plaster**; coordinate depth of trim and accessories with thicknesses and number of plaster coats required.
- B. Metal Accessories:
 - 1. Cornerite: Fabricated from expanded-metal lath with ASTM A653/A653M, **G60**, hot-dip galvanized zinc coating.
 - 2. Striplath: Fabricated from expanded-metal lath with ASTM A653/A653M, **G60**,

**Lenoir County Courthouse
Interior Renovation
130 South Queen Street
Kinston, Lenoir County, NC**

- hot-dip galvanized zinc coating.
3. Cornerbeads: Fabricated from **zinc-coated (galvanized) steel**.
 - a. Small nose cornerbead with expanded flanges; use unless otherwise indicated.
 - b. Small nose cornerbead with perforated flanges; use on curved corners.
 - c. Small nose cornerbead with expanded flanges reinforced by perforated stiffening rib; use on columns and for finishing unit masonry corners.
 - d. Bull nose cornerbead, radius of **3/4 inch** minimum, with expanded flanges; use at locations indicated on Drawings.
 4. Casing Beads: Fabricated from **[zinc] [or] [zinc-coated (galvanized) steel]**; square-edged style; with expanded flanges.
 5. Control Joints: Fabricated from **[zinc] [or] [zinc-coated (galvanized) steel]**; one-piece-type, folded pair of unperforated screeds in M-shaped configuration; with perforated flanges and removable protective tape on plaster face of control joint.
 6. Expansion Joints: Fabricated from **[zinc] [or] [zinc-coated (galvanized) steel]**; folded pair of unperforated screeds in M-shaped configuration; with expanded flanges.
 7. Two-Piece Expansion Joints: Fabricated from **[zinc] [or] [zinc-coated (galvanized) steel]**; formed to produce slip-joint and square-edged reveal that is adjustable from **1/4 to 5/8 inch** wide; with perforated flanges.

2.4 MISCELLANEOUS MATERIALS

- A. Water for Mixing and Finishing Plaster: Potable and free of substances capable of affecting plaster set or of damaging plaster, lath, or accessories.
- B. Fasteners for Attaching Lath to Substrates:
 1. For Lime Plaster: ASTM C1063.
 2. For Gypsum Plaster: ASTM C841.
 3. For Wood Lath: ASTM C841 requirements for wood-floor-runner or wood-furring fasteners unless otherwise indicated on Drawings.
- C. Wire Ties: ASTM A641/A641M, Class 1 zinc coating, soft temper, not less than **0.0475-inch** diameter, unless otherwise indicated.
- D. Plaster-Stabilization Materials: Acrylic emulsion(s) and related installation products shall have proven effectiveness in reattaching delaminated plaster and shall have been used previously by historic treatment specialist with successful results.
 1. Acrylic Emulsion(s), General: Aqueous emulsion(s) of acrylic polymer, adhesive to plaster and plaster substrates, nontoxic, and non-reemulsifiable after curing.
 2. Prewet Solution: Low-viscosity acrylic emulsion.
 3. Adhesive: Thickened acrylic emulsion; thickener as recommended in writing by resin manufacturer and historic treatment specialist.

**Lenoir County Courthouse
Interior Renovation
130 South Queen Street
Kinston, Lenoir County, NC**

- E. Other Products: Select materials and methods of use based on the following, subject to approval of a mockup:
1. Previous effectiveness in performing the work involved.
 2. Little possibility of damaging exposed surfaces.
 3. Consistency of each application.
 4. Uniformity of the resulting overall appearance.
 5. Do not use products or tools that could do the following:
 - a. Remove, alter, or in any way harm the present condition or future preservation of existing surfaces, including surrounding surfaces not in contract.
 - b. Leave an unintended residue on surfaces.

PART 3 - EXECUTION

3.1 HISTORIC TREATMENT OF PLASTER, GENERAL

- A. Historic Treatment Appearance Standard: Completed work is to have a uniform appearance as viewed by Architect from building interior at **5 feet** away from surface.
- B. General: In treating historic plaster, disturb it as minimally as possible and as follows unless otherwise indicated:
1. Dismantle loose, damaged, or deteriorated plaster, lath, and support systems that cannot be repaired.
 2. Verify extent of plaster deterioration against that indicated on Drawings. Consult Architect on types and extent of required work.
 3. Verify that substrate surface conditions are suitable for repairs.
 4. Provide lath, furring, and support systems for plaster included in the work of this Section.
 5. Replace lost details in new, wet-applied and cast plaster that replicate existing or indicated plaster configurations.
 6. Leave repaired plasterwork in proper condition for painting or applying other finishes as indicated.
 7. Install temporary protective measures to protect historic surfaces that shall be treated later.
- C. Illumination: Perform plastering work with adequate, uniform illumination that does not distort the flatness or curvature of surfaces.

3.2 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for substrate and environmental conditions, installation tolerances, and other conditions affecting performance of the Work.

**Lenoir County Courthouse
Interior Renovation
130 South Queen Street
Kinston, Lenoir County, NC**

1. If existing substrates cannot be prepared to an acceptable condition for plastering work, notify Architect in writing.
 2. Notify Architect of undocumented detrimental conditions including cracks, bulges, loose backup, rotted wood, rusted metal, and other deteriorated items.
- B. Masonry Substrates: Verify that mortar joints are struck flush. Notify Architect of undocumented masonry substrate without flush joints. Proceed with plastering as directed by Architect.
- C. Begin historic plastering work only after unsatisfactory conditions have been corrected.

3.3 PREPARATION FOR PLASTERING

- A. Substrates: Prepare according to plaster manufacturer's written instructions and as follows:
1. Clean surfaces to remove dust, loose particles, grease, oil, incompatible curing compounds, form-release agents, and other foreign matter and deposits that could impair bond with plaster.
 2. Remove ridges and protrusions greater than **1/8 inch** and fill depressions greater than **1/4 inch** with patching material. Allow to set and dry.

3.4 PLASTER REMOVAL AND REPLACEMENT, GENERAL

- A. Dismantle plaster that is damaged or deteriorated to the limits indicated. Carefully dismantle areas along straight edges that lie over supports, without damaging surrounding plasterwork.
- B. Maintain lath and supporting members in an undamaged condition so far as practicable. Dismantle damaged lath and supports that cannot be repaired or resecured and replace with new work of same type.
- C. Notify Architect of undocumented detrimental conditions including cracks, bulges, loose backup, rotted wood, rusted metal, and other deteriorated items.
- D. Do not deviate more than plus or minus **1/8 inch in 10 feet** from a true plane in finished plaster surfaces, as measured by a **10-foot** straightedge placed on surface.
- E. Clean substrate surfaces to remove grease, waxes, oils, waterborne staining, debris, and other foreign matter and deposits that could impair bond with repair material.
- F. Wet [**wood lath**] [**masonry**] [**and**] [**concrete**] bases before plaster application. Keep substrate damp to the touch but without visible water droplets.
- G. Wet remaining plaster abutting the replacement plaster before installing new plasterwork.

**Lenoir County Courthouse
Interior Renovation
130 South Queen Street
Kinston, Lenoir County, NC**

- H. Finish plaster flush with metal frames and other built-in metal items or accessories that act as a plaster ground unless otherwise indicated. Where casing bead does not terminate plaster at metal frame, cut base coat free from metal frame before plaster sets and groove finish coat at junctures with metal.
- I. Provide plaster surfaces that are ready to receive field-applied finishes indicated.

3.5 FLAT GYPSUM-PLASTER REMOVAL AND REPLACEMENT

- A. General: Dismantle deteriorated plaster to existing sound plaster. Use replacement plaster mixes of gypsum, lime, and aggregate; and application according to ASTM C842 unless otherwise indicated.
 - 1. Inspect for lath deterioration. If any, replace lath.
 - 2. Sand bonding surfaces of repair area, and clean the surface with a nonmetallic bristle brush.
 - 3. Wet substrate to damp condition, but without visible water droplets, then install new plaster to original profiles.
- B. Bonding Compound: Apply on **[unit masonry]** **[and]** **[concrete]** plaster bases.
- C. Gypsum-Plaster Base Coats:
 - 1. Base Coats over Wood Lath: Gypsum **[neat plaster with job-mixed sand and fiber]** **[wood-fibered plaster with job-mixed sand]** **[lightweight ready-mixed plaster with fiber]** **<Insert mix>**.
 - 2. Base Coats over Expanded-Metal Lath: **[High-strength gypsum]** **[Gypsum neat]** plaster with job-mixed sand for scratch and brown coats. **[Add fiber to scratch coat.]**
 - 3. Base Coats over Expanded-Metal Lath:
 - a. Scratch Coat: Gypsum wood-fibered plaster; neat or with job-mixed sand.
 - b. Brown Coat: Gypsum **[wood-fibered plaster with job-mixed sand]** **[neat plaster with job-mixed sand]** **[lightweight ready-mixed plaster]** **[neat plaster with job-mixed perlite]**.
 - 4. Base Coats over Unit Masonry: Gypsum **[wood-fibered plaster with job-mixed sand]** **[neat plaster with job-mixed sand]** **[lightweight ready-mixed plaster]**
 - 5. Base-Coat Mix over Monolithic Concrete: **[Gypsum neat plaster with job-mixed sand]**
- D. Gypsum-Plaster Finish Coats:
 - 1. Finish-Coat Mix for Smooth-Troweled Finishes: **[Gypsum gaging plaster]** **[Gypsum ready-mixed finish plaster]** **[High-strength gypsum gaging plaster]** **[Gypsum Keene's cement]**
 - 2. Finish-Coat Mix for Float Finishes: **[Gypsum gaging plaster]** **[Gypsum Keene's cement]**

**Lenoir County Courthouse
Interior Renovation
130 South Queen Street
Kinston, Lenoir County, NC**

3. Finish-Coat Mix for Textured Finishes: [**Gypsum ready-mixed finish plaster**]

E. Gypsum-Plaster Finishes: **Match adjacent existing texture.**

3.6 REMOVING AND INSTALLING LATH AND ACCESSORIES

A. General: Dismantle existing plaster as necessary to expose deteriorated or rusted lath, wire ties, and support system, back to firm substrates and supports. Repair with new materials, well secured to existing lath in good condition and to building structure.

1. Cutting: Cut lath so it can be taken out completely from one support to the next. Cut to avoid cracking surrounding plaster.
2. Cut out existing base-coat plaster beyond the edges of the new lath to permit new plaster to extend onto the old lath. Then step subsequent plaster coats to permit new plaster to extend over the old material.
3. Fasten new lath to support system and to good existing lath. Wire tie at least every **6 inches**.
4. Install new lath according to [**ASTM C1063 for lime plaster**] [**and**] [**ASTM C841 for gypsum plaster**].

B. Notify Architect of undocumented detrimental conditions including cracks, bulges, loose backup, rotted wood, rusted metal, and other deteriorated items.

C. Wood Lath: Install wood lath in same orientation and spacing as remaining wood lath and with lath ends supported by furring or framing. Stagger ends of adjacent laths over different supports, not aligned, and secure with fasteners at each end and spaced a maximum of **24 inches** o.c. into supports.

D. Metal Lath: Install according to [**ASTM C1063 for lime plaster**] [**and**] [**ASTM C841 for gypsum plaster**].

1. Partition Framing and Vertical Furring: Install [**flat diamond-mesh**] [**flat rib**] lath.
2. Flat-Ceiling and Horizontal Framing: Install [**flat diamond-mesh**] [**flat rib**] lath.
3. Curved-Ceiling Framing: Install flat diamond-mesh lath.
4. On Solid Surfaces, Not Otherwise Furred: Install self-furring, diamond-mesh lath.

3.7 PATCH-TYPE REPAIR

A. General: Patch voids, fractured surfaces, and crushed areas in otherwise sound plaster that are larger than cracks.

1. Notify Architect of undocumented detrimental conditions including cracks, bulges, loose backup, rotted wood, rusted metal, and other deteriorated items.
2. Inspect for deterioration of supporting plaster and lath, and repair or replace deteriorated material as required for a sound substrate.
3. Rake perimeter of hole to sound plaster, and slightly undercut existing plaster to enable replacement plaster to tuck behind existing plaster.

**Lenoir County Courthouse
Interior Renovation
130 South Queen Street
Kinston, Lenoir County, NC**

4. Replace missing lath in kind. Bridge gaps in wood lath with expanded-metal lath, overlapping wood by **6 inches** and fastening them together.
5. Clean hole to remove loose materials and other foreign matter and deposits that could impair bond with repair material. Where grease, waxes, oils, waterborne staining, or other foreign matter and deposits that could impair bond with repair material have penetrated into the plaster, enlarge the hole to remove these deposits.
6. Wet substrate to damp condition, but without visible water droplets, then install patch material to original profiles.
7. Maintain adjacent plasterwork in an undamaged condition so far as practicable.

B. Gypsum-Plaster Mix: **Repair mix demonstrated in mockup**

C. Finishing: Finish flat surfaces flush and with same texture as adjacent existing plaster. For molded plaster shapes, tool surface to restore the sharp edges and the shape of the molded shape to original contours.

D. Hairline cracking within the plaster or plaster separation at edge of a patch is unacceptable. Completely dismantle such work and reinstall or repair.

3.8 HAIRLINE CRACK REPAIR

A. General: Repair cracks [**1/32 inch**] in width or narrower in otherwise sound plaster

1. Notify Architect of undocumented detrimental conditions including cracks, bulges, loose backup, rotted wood, rusted metal, and other deteriorated items.
2. Maintain adjacent plasterwork in an undamaged condition so far as practicable.

B. Existing Topcoat: Open crack in existing topcoat to at least [**1/8 inch**] in width and check for broken fiber reinforcement in base coats.

C. Existing Base Coats: Do not open crack wider in existing base coats unless inspection or other indication shows that the fiber reinforcement has broken. Where inspections indicate failure of fiber reinforcement, proceed as for a large crack repair, but only for length of crack with broken fiber reinforcement.

D. Clean out crack to remove loose materials and other foreign matter and deposits that could impair bond with repair material. Where grease, waxes, oils, waterborne staining, or other foreign matter and deposits that could impair bond with repair material have penetrated into the topcoat plaster, widen the crack and sand surface of the exposed basecoat to remove these deposits.

E. Wet substrate to damp condition, but without visible water droplets.

F. Force **repair material demonstrated in mockup** into crack, filling crack to original plaster profile.

G. Finishing: Finish flat surfaces flush and with same texture as adjacent existing plaster.

**Lenoir County Courthouse
Interior Renovation
130 South Queen Street
Kinston, Lenoir County, NC**

For molded plaster shapes, tool surface to restore the sharp edges and the shape of the molded shape to original contours.

3.9 LARGE CRACK REPAIR

- A. General: Repair cracks over **1/32 inch** in width in otherwise sound plaster
 - 1. Notify Architect of undocumented detrimental conditions including cracks, bulges, loose backup, rotted wood, rusted metal, and other deteriorated items.
 - 2. Maintain adjacent plasterwork in an undamaged condition so far as practicable.
- B. Open crack to at least **1/8 inch** in width and full depth with V-groove tool, and check for bond separation or lath deterioration.
- C. Abrade side surfaces of crack and remove inner crack debris by gouging (keying) the inside area of the crack.
- D. Clean out crack to remove loose materials and other foreign matter and deposits that could impair bond with repair material. Where grease, waxes, oils, waterborne staining, or other foreign matter and deposits that could impair bond with repair material have penetrated into the plaster, widen the crack to remove these deposits.
- E. Wet substrate to damp condition, but without visible water droplets.
- F. Install **repair material demonstrated in mockup** to fill crack to original plaster profile.
- G. Finishing: Finish flat surfaces flush and with same texture as adjacent existing plaster. For molded plaster shapes, tool surface to restore the sharp edges and the shape of the molded shape to original contours.
- H. Offset Cracks: If the crack is offset in surface plane by more than **1/8 inch**, dismantle the plaster on each side of the crack, a minimum width of **6 inches** and down to the lath or other substrate. Then, repair as specified for flat-plaster removal and replacement.

3.10 REATTACHMENT OF DELAMINATED PLASTER

- A. General: Reattach plaster that has detached from its wooden lath
 - 1. Notify Architect of undocumented detrimental conditions including cracks, bulges, loose backup, rotted wood, rusted metal, and other deteriorated items.
 - 2. Maintain adjacent plasterwork in an undamaged condition so far as practicable.
- B. Verify extent of detachment of plaster that has not yet fallen by tapping on plaster surface and evaluating the hollow or solid resonance.
- C. Protect floors from spillage and debris in the vicinity of work. Use materials resistant to

**Lenoir County Courthouse
Interior Renovation
130 South Queen Street
Kinston, Lenoir County, NC**

the passage of fluids used in work.

- D. Drill **1/4-inch** injection ports (holes) through the plaster spaced **3 to 6 inches** apart over surface of detached plaster. Dislodge loose plaster particles, and vacuum debris from holes.
- E. Prewet injection ports, gaps at edges of lost plaster, back of plaster, and wooden lath with prewet solution.
- F. Inject adhesive into ports, enough to fill gaps between detached plaster and lath, and inject into gaps at edges of lost plaster.
- G. Clean off excess and smeared adhesive while wet.
- H. Apply temporary battens over surface of treated plaster to prevent further separation during repair work. Secure battens in place against plaster with **screws through the battens and plaster and into the wood lath** .
- I. Maintain temporary battens in place for a week or more, allowing adhesive to coalesce and dry.
- J. Remove battens, patch holes and missing plaster, and repair cracks.

3.11 INSTALLATION TOLERANCES

- A. Completed plaster installation shall not deviate from a true plane by more than [**1/8 inch**] as measured by a **5-foot** straightedge placed at any location on a surface, except where existing plaster is retained as a substrate for new plasterwork.

3.12 CLEANING AND PROTECTION

- A. Protect work of other trades against damage. Promptly remove plaster from surfaces not indicated to be repaired or plastered. Do not scratch or damage finished surfaces.
- B. Repair floors, walls, and other surfaces stained, marred, or otherwise damaged during plastering.
- C. Correct damage to other historic surfaces and to new work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. Remove temporary protection and enclosure of other work.

END OF SECTION 090320

FORM OF SINGLE PRIME CONTRACT PROPOSAL

PROPOSAL SUBMITTED BY _____

ADDRESS _____

TELEPHONE NO. (____) _____

LICENSE NO. _____

BIDDING AS: **CONTRACTOR**
TO: **Lenoir County Manager**
Lenoir County, NC

The Undersigned, having examined, compared, and familiarized himself with the Invitation to Bid, the Instructions to Bidders, Special Instructions to Bidders (M/WBE) program, and the Contract Documents as prepared by DeVita & Associates, Inc. (Engineer) and Dunn & Dalton Architects, P.A., and having examined the site of the Work and familiarized himself with all conditions and requirements pertaining thereto, hereby proposes to furnish all material, labor, equipment, services, and transportation necessary to complete the work in accordance with the Contract Documents for the Project entitled:

**Lenoir County Courthouse
HVAC and Basement Renovations
130 South Queen Street
Kinston, NC 28501**

for the sum(s) of:

BASE BID: CONTRACT
(Allowance #1 in the amount of \$100,000 is not included in this base bid)

_____ Dollars (\$_____).

The undersigned further proposes to undertake work on the Date of Commencement as established in the Agreement and shall achieve Substantial Completion within not more than **eighteen (18) months** from the Notice to Proceed. The successful bid Contractor shall provide an outline project construction schedule when requested by the Owner, prior to execution of a construction contract, showing how this timeline will be met.

Liquidated damages will be assessed in the amount of \$250/ day for the first (30) thirty days beyond substantial completion and \$500/day for the remainder of days beyond the first (30) days after substantial completion.

ALTERNATE #1 (original): DELETED

ALL WORK in the basement is included in the BASE BID.

ALTERNATE #1 (new):

North and South stair towers in the 1932 portions of building have quite a bit of plaster damage. Cost to repair

ADD _____ Dollars (\$_____).

ALTERNATE #2:

The Base Bid will include night and weekend work for DA offices, clerk of court, and sheriff. Alternate #2 (Deduct) is for work to be completed during normal business hours with spaces unoccupied. Normal work hours as defined as 7am to 6pm Mon though Fri.

DEDUCT _____ Dollars (\$_____).

The undersigned confirms that he has attached the specified bid security and that in the event should he fail or refuse to enter into a contract with the Owner, such bid security will be forfeited to the Owner as liquidated damages.

UNIT PRICES #1 - #4: Hourly rate premiums for working outside of normal working hours, in areas currently assumed to be available (for example courtrooms), as may be required to meet above referenced schedule.

#1 ADD \$ _____/hour for _____ trade category

#2 ADD \$ _____/hour for _____ trade category

#3 ADD \$ _____/hour for _____ trade category

#4 ADD \$ _____/hour for _____ trade category

The undersigned acknowledges that he has received and reviewed the below enumerated addenda and has taken them into account in the preparation of this proposal.

Addendum No. _____ dated _____.

Addendum No. _____ dated _____.

Addendum No. _____ dated _____.

Addendum No. _____ dated _____.

Addendum No. _____ dated _____.

Respectfully submitted this _____ day of _____, _____
without conditions by:

(Name of Firm or Corporation making bid)

By: _____

Title: (Owner, Partner, or Corp. Pres. or Vice-Pres. Only).

WITNESS:

(Proprietorship or Partnership)

ATTEST:

By: _____

Title:

(CORPORATE SEAL)

For All Official Notices

Name and Title

Name of Firm/Corporation

Street Address

City, State and Zip

Area Code and Telephone

Bonding Company Attorney-In-Fact Manager

Area Code and Telephone

MINORITY AND/OR WOMEN BUSINESS ENTERPRISE (M/WBE) PROGRAM:

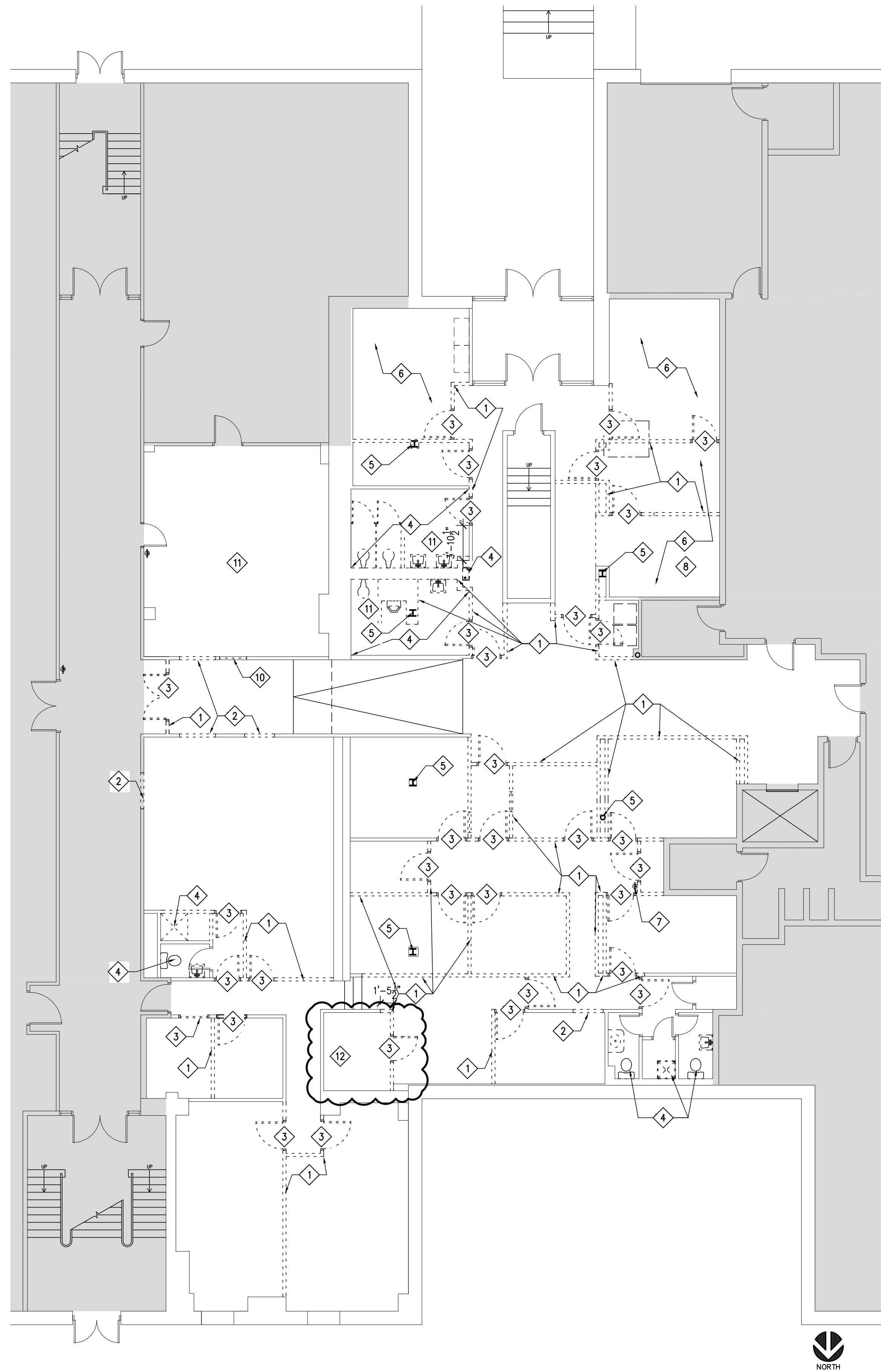
The General Contractor states that his bid includes the following documentation based on the requirements of Specification Section 00495 "Minority and/or Women Business Enterprise (M/WBE) Program- Bidding Procedures".

Documents Included in Bid:

1. Identification of Minority/Women Business Participation form.

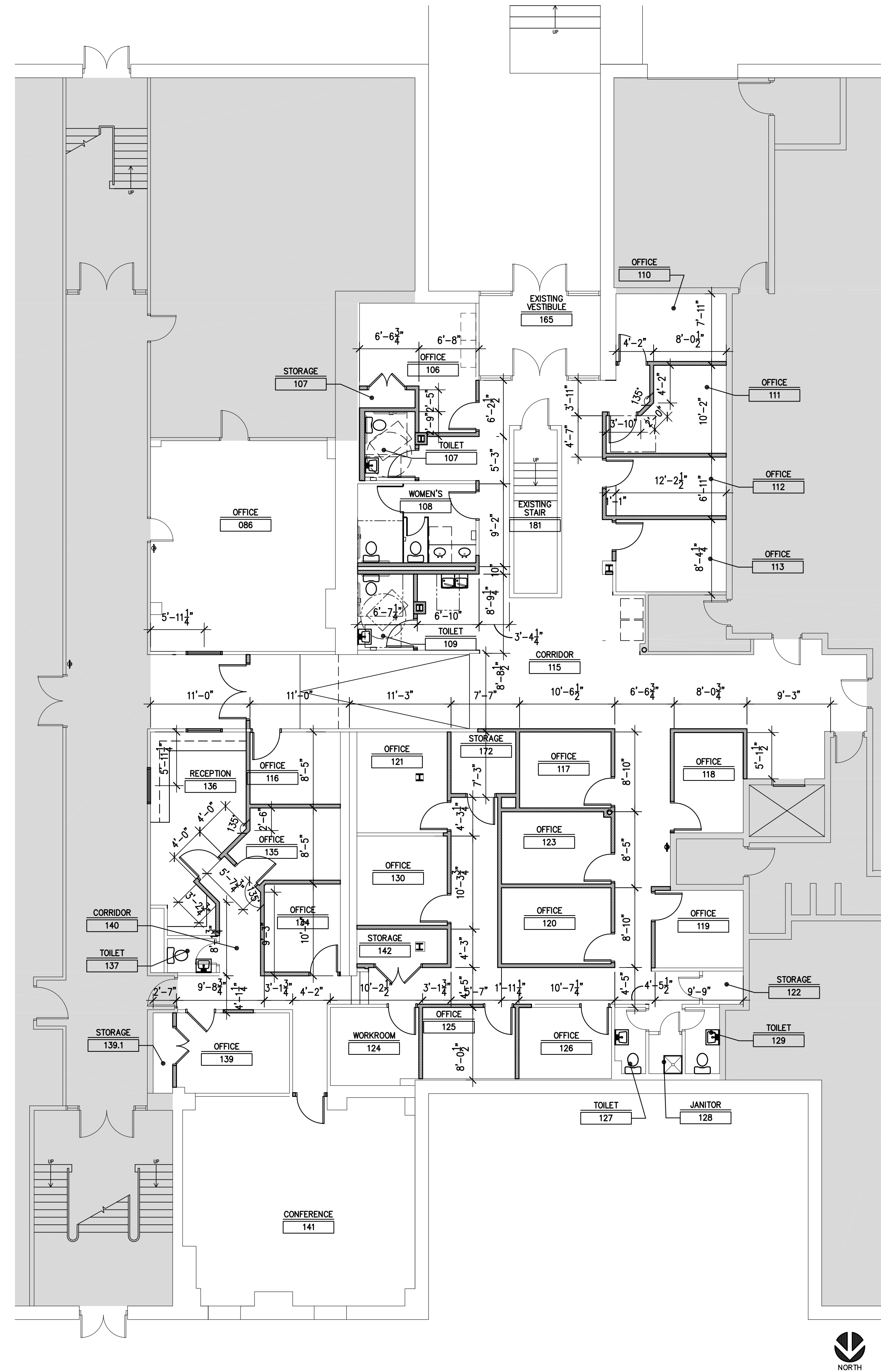
2. Affidavit A (if subcontracting)
- OR**
3. Affidavit B (if self-performing)

END OF SECTION 00400



1 DEMOLITION PLAN: BASEMENT RENOVATION

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



2 DIMENSION PLAN: BASEMENT RENOVATION

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



GENERAL NOTES:

- A. ALL CONSTRUCTION SHOWN IS EXISTING TO REMAIN, UNLESS NOTED OTHERWISE. PROTECT ALL IN-TACT ORIGINAL CONSTRUCTION EXCEPT AS NOTED.
- B. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO START OF WORK.
- C. COORDINATE EXTENT OF DEMOLITION WITH NEW WORK PLAN.
- D. SPACE TO BE LEFT BROOM CLEAN AND FREE OF DIRT AND OTHER CONSTRUCTION RESIDUE, AND READY.
- E. BUILDING WILL BE OCCUPIED DURING CONSTRUCTION, PROVIDE TEMPORARY BARRIERS TO ISOLATE CONSTRUCTION WORK AREA AND TO CONTROL DUST.
- F. ALL EXISTING FLOORING AND WALL BASE TO BE REMOVED THROUGHOUT THE WORK AREA. PREP FLOOR SLAB FOR NEW FLOOR FINISH.
- G. ALL EXISTING GYPSUM BOARD AND SUSPENDED CEILING SYSTEMS THROUGHOUT THE RENOVATION WORK AREA TO BE REMOVED.
- H. ALL EXISTING WOOD CHAIR RAIL THROUGHOUT THE RENOVATION WORK AREA TO BE REMOVED.
- I. PER LENOIR COUNTY ASBESTOS REPORT CONDUCTED IN 2012, THE EXISTING FLOOR TILE HAS ASBESTOS MATERIALS AND WILL REQUIRE ABATEMENT BY A LICENSED ABATEMENT CONTRACTOR.

DEMOLITION NOTES: INDICATED BY

- 1. REMOVE EXISTING INTERIOR PARTITION WALL AS INDICATED
- 2. REMOVE PORTION OF EXISTING WALL AS REQ'D FOR NEW DOOR/WINDOW OPENING, COORD. WITH NEW WORK.
- 3. REMOVE EXISTING DOOR AND FRAME COMPLETELY.
- 4. REMOVE EXISTING PLUMBING FIXTURES AND ALL ACCESSORIES COMPLETELY.
- 5. EXISTING COLUMN TO REMAIN, PROTECT DURING CONSTRUCTION.
- 6. EXISTING WOOD WALL PANELING TO BE REMOVED.
- 7. RELOCATE EXISTING WALL MOUNTED FIRE EXTINGUISHER, COORD. WITH NEW WORK.
- 8. EXISTING BUILT-UP FLOOR TO BE REMOVED.
- 9. EXISTING QUARRY FLOOR TILE AND UNDERLAYMENT TO BE REMOVED.
- 10. EXISTING WINDOW UNIT TO BE REMOVED.
- 11. EXISTING CEILING TILE, GRID, AND FIXTURES TO REMAIN THIS ROOM.
- 12. REMOVE EXISTING CARPETING AND GWB ON WALLS THROUGHOUT THIS ROOM.



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Devita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER:
CONSULTANT:

PROJECT INFORMATION:

**LENOIR COUNTY
COURTHOUSE HVAC &
BASEMENT
RENOVATION
PROJECT**

130 S. QUEEN ST.
KINSTON, NC 28501

REVISIONS

NO.	DATE	DESCRIPTION
1	8/23/23	ADDENDUM #1

DEMOLITION WALL LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- - - - EXISTING CONSTRUCTION TO BE REMOVED

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DRAWING NAME

**BASEMENT
DEMOLITION &
DIMENSION PLANS**

DRAWING NO.

A1.1

Drawn By: JDB Checked By: AEP

DUNN & DALTON
ARCHITECTS
401 North Heritage Street
Kinston, North Carolina 28501
phone: 252-527-1523
web: dunn Dalton.com
PROJECT NO. LCO-22009



GENERAL NOTES:

- A. ALL CONSTRUCTION SHOWN IS EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
- B. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE START OF WORK.
- C. PROVIDE 5/8" GYPSUM WALL BOARD INFILL AT BAS EOP ALL EXISTING WALLS THROUGHOUT THE WORK AREA.
- D. PROVIDE NEW PAINT FINISH ALL WALLS IN WORK AREA UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES:

- ① FURNITURE & EQUIPMENT BY OTHERS, TYP.
- ② EXISTING COLUMN; WHERE EXPOSED FURR OUT AND FINISH WITH 5/8" GWB
- ③ ALIGN NEW WALL WITH EXISTING CONSTRUCTION
- ④ HIGH-LOW DRINKING FOUNTAIN, SEE DETAILS RE/A5.1
- ⑤ 12" ADJUSTABLE SHELVES (QTY 5)
- ⑥ EXISTING FIRE EXTINGUISHER
- ⑦ RELOCATED FIRE EXTINGUISHER
- ⑧ PROVIDE FLOOR LEVELING AT AREA OF REMOVED QUARRY TILE AS REQUIRED FOR FLUSH FLOOR LEVEL TO ADJACENT AREAS.
- ⑨ PROVIDE RUBBER STAIR TREAD AND RISERS AT EXISTING STEPS.



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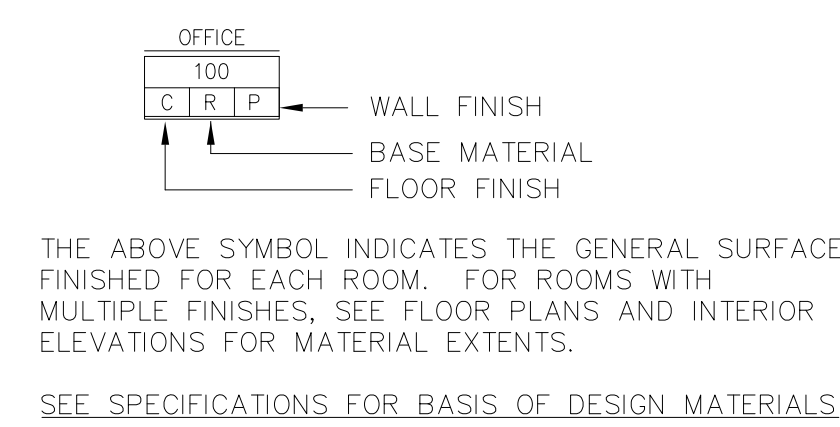
PROJECT NUMBER:
CONSULTANT

PROJECT INFORMATION:

**LENOIR COUNTY
COURTHOUSE HVAC &
BASEMENT
RENOVATION
PROJECT**

130 S. QUEEN ST.
KINSTON, NC 28501

ROOM FINISH LEGEND



WALL FINISH

- P PAINTED GYPSUM BOARD
- EP EPOXY PAINTED GYPSUM BD
- FRP FRP BD OVER GYPSUM BOARD

BASE MATERIAL

- R 6" RUBBER COVE BASE

FLOOR FINISH

- VCT VINYL COMPOSITION TILE
- CPT CARPET TILE

CEILING FINISH

- ACT ACOUSTICAL CEILING TILE

WALL LEGEND

- ALL WALLS ARE TYPE A, U.N.O.
- EXISTING TO REMAIN
 - NEW INTERIOR PARTITION: 3 5/8" METAL STUDS @ 16" O.C. W/ 5/8" GYP. BD. BOTH SIDES (WATER RESISTANT GYP. BD. INSIDE TOILET ROOMS). MATCH ADJACENT CONSTRUCTION.
 - NEW INTERIOR PARTITION: 6 METAL STUDS @ 16" O.C. W/ 5/8" GYP. BD. BOTH SIDES (WATER RESISTANT GYP. BD. INSIDE TOILET ROOMS). MATCH ADJACENT CONSTRUCTION.

REVISIONS

NO.	DATE	DESCRIPTION
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DRAWING NAME

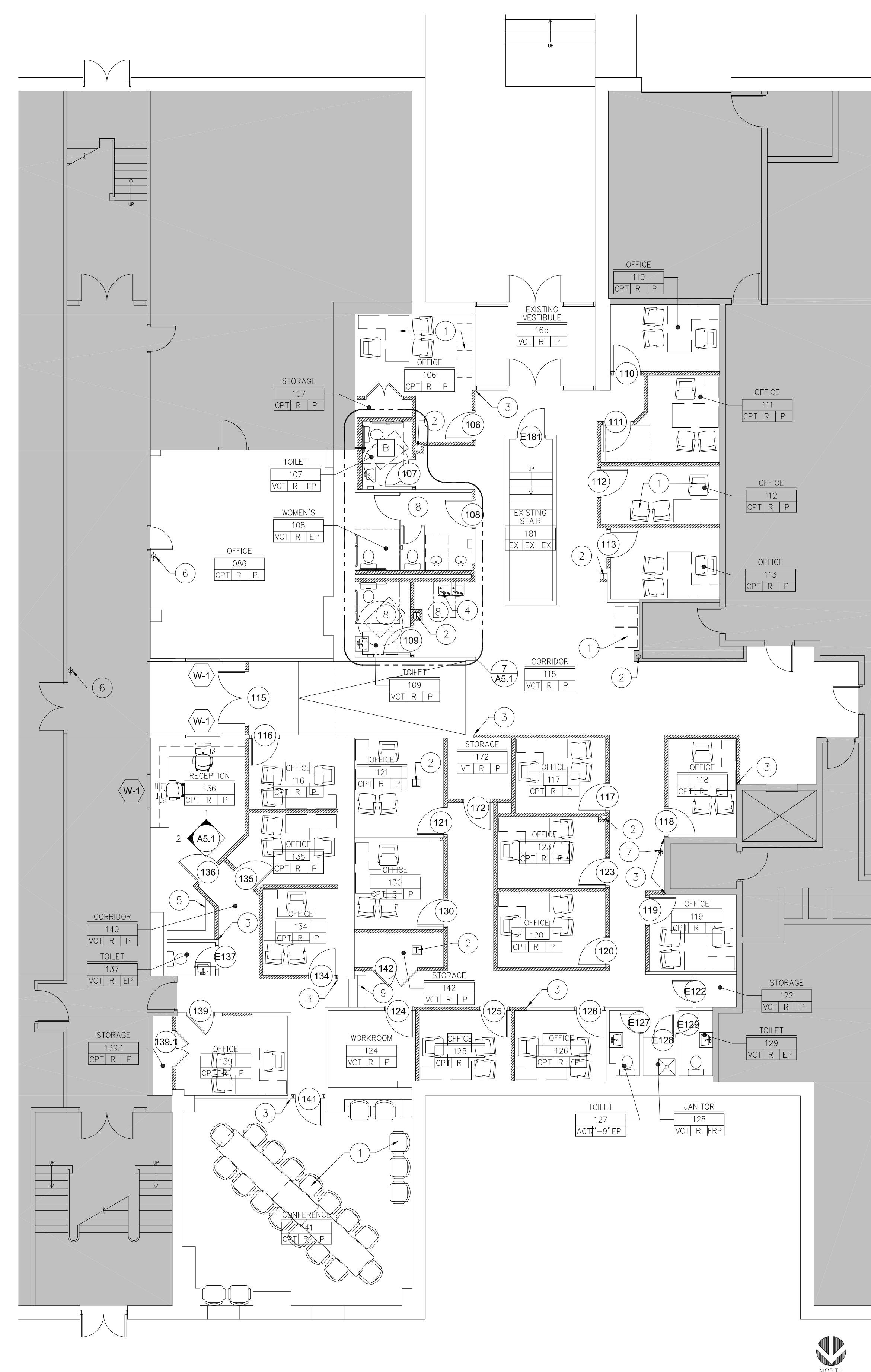
**BASEMENT
REFERENCE PLAN &
REFLECTED CEILING
PLAN**

DRAWING NO.

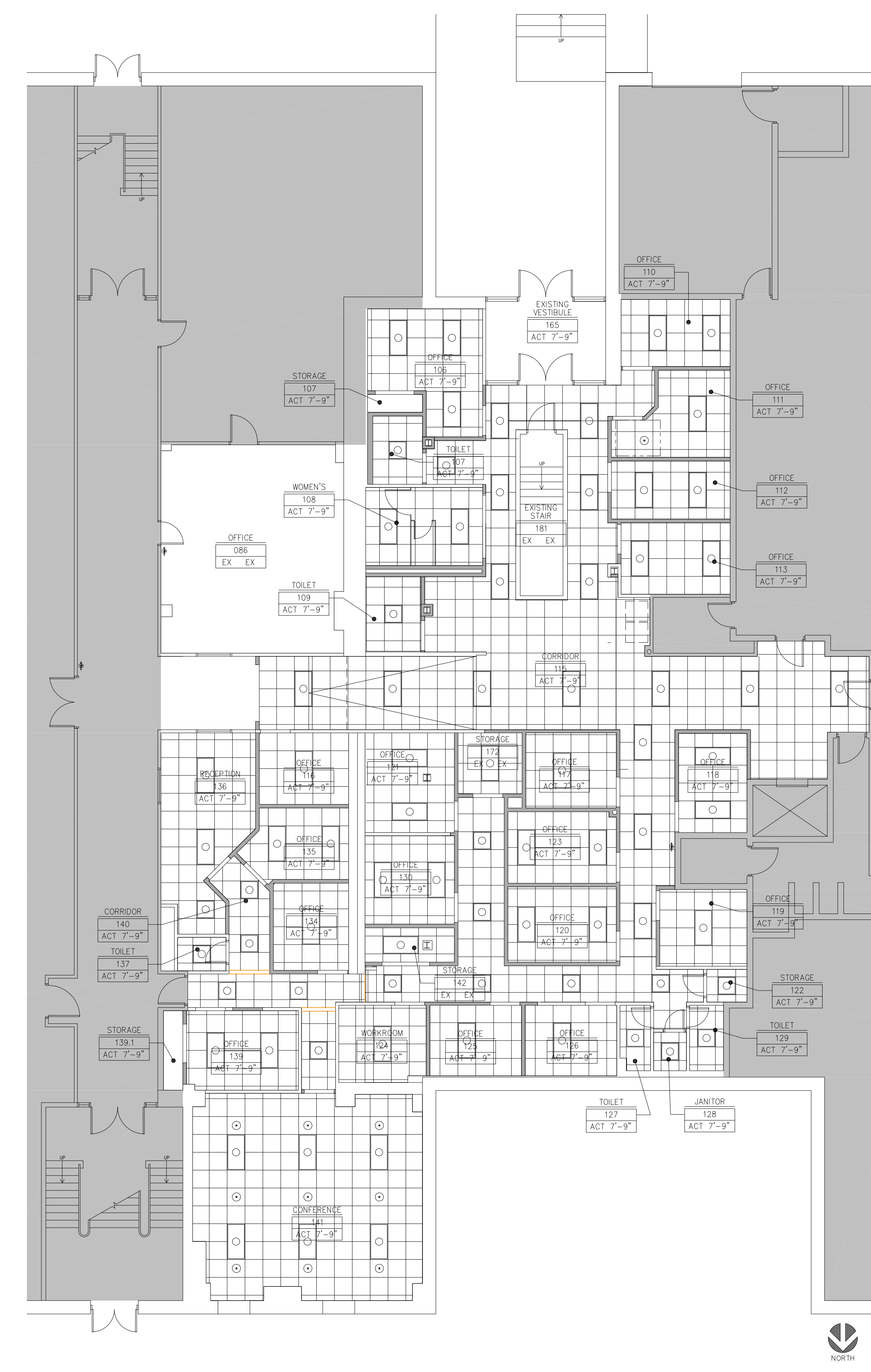
A1.2

Drawn By: JDB Checked By: AEP

DUNN & DALTON
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401 North Heritage Street
Kinston, North Carolina 28501
phone: 252-527-1523
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PROJECT NO. LCO-22009



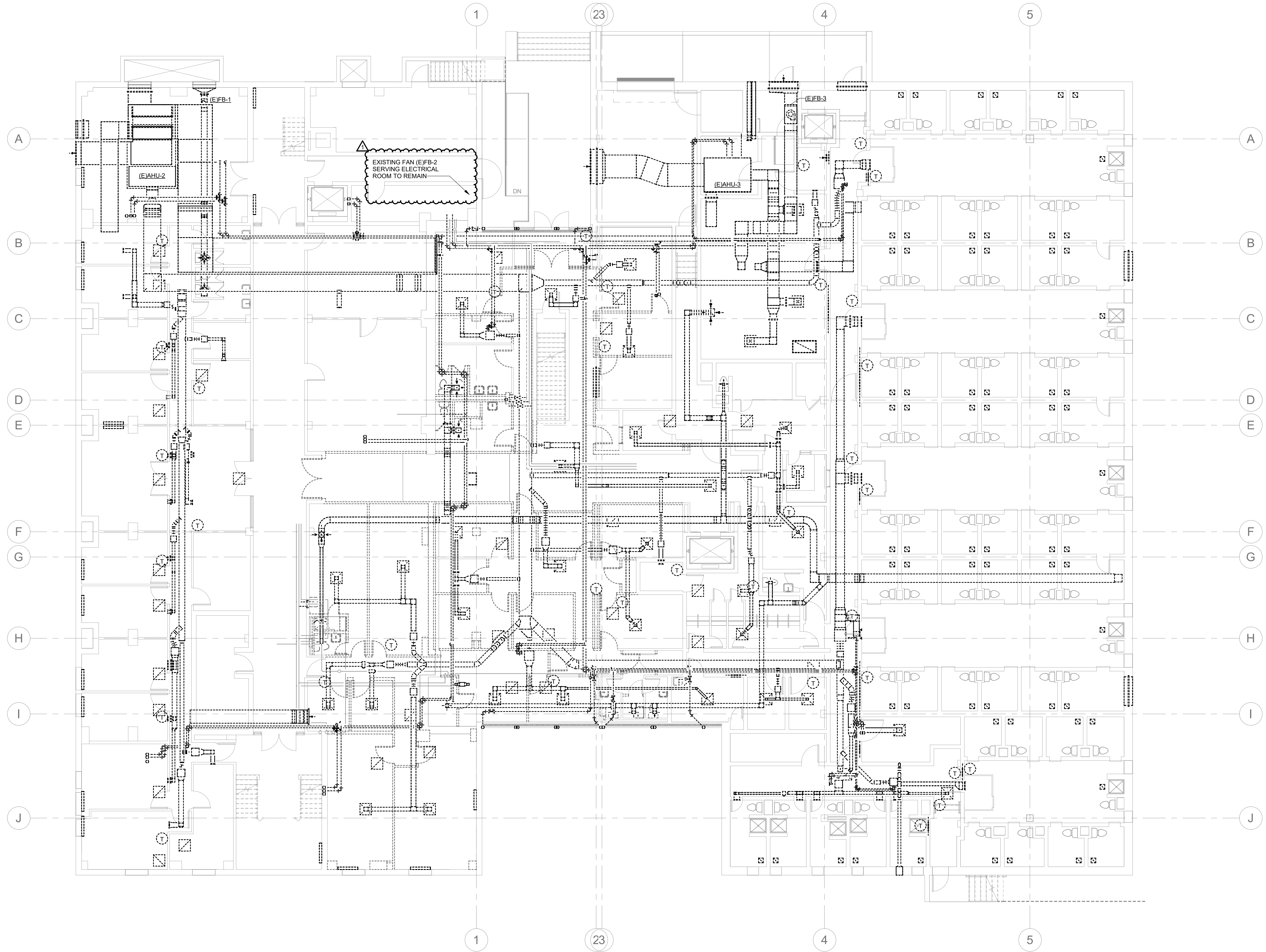
1 REFERENCE PLAN: BASEMENT RENOVATION
SCALE: 1/8" = 1'-0"



2 REFLECTED CEILING PLAN: BASEMENT RENOVATION
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

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2. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL PHOTOGRAPHICALLY DOCUMENT ANY DAMAGE TO THE FACILITY THAT COULD BE REASONABLY CONTRIBUTED TO THEIR WORK EFFORT AND PROVIDE REPORT TO THE ENGINEER AND OWNER FOR CONFIRMATION. ANY DAMAGE THAT IS IDENTIFIED AFTER THE COMMENCEMENT OF WORK WILL BE CONTRIBUTED TO THE CONTRACTOR'S EFFORTS, AND REPAIRS SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
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6. ALL EXISTING OPENINGS ABOVE CEILINGS ARE TO REMAIN AS PATHWAY FOR BUILDING PRESSURE RELIEF SYSTEM.



SEALS

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DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER: 22175-03
CONSULTANT:

PROJECT INFORMATION:

**LENOIR COUNTY
COURTHOUSE HVAC &
BASEMENT
RENOVATION
PROJECT**

130 S QUEEN ST,
KINSTON, NC 28501

REVISIONS		
NO.	DATE	DESCRIPTION
1	08/23/2023	ADDENDUM 1

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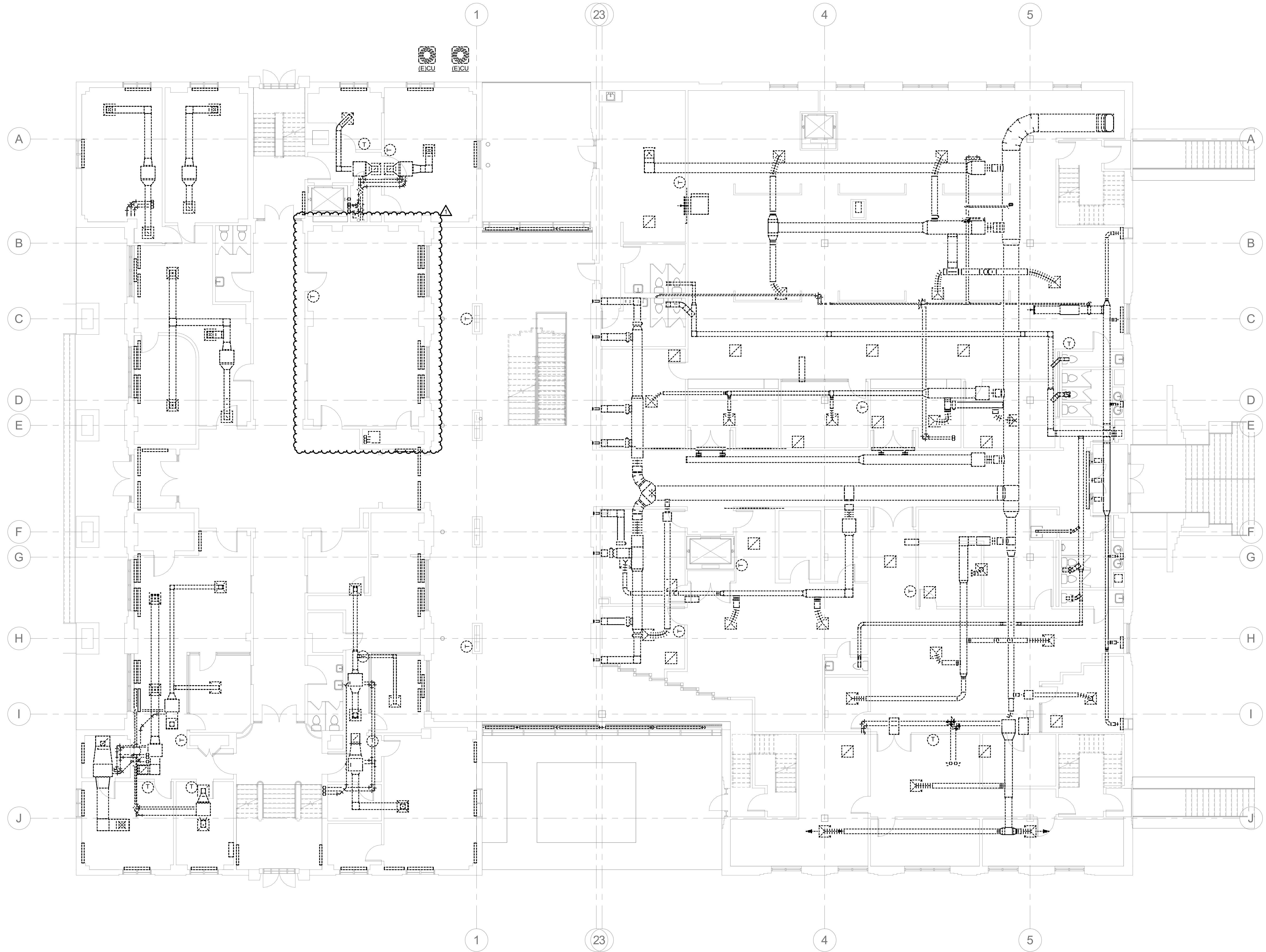
DRAWING NAME
**BASEMENT DEMO
PLAN**

DRAWING NO.
DM1.0

Drawn By: EBZ Checked By: MAR

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1 1ST FLOOR DEMO PLAN
DM1.1 1/8" = 1'-0"

PROJECT NUMBER: 22175-03
CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
130 S QUEEN ST,
KINSTON, NC 28501

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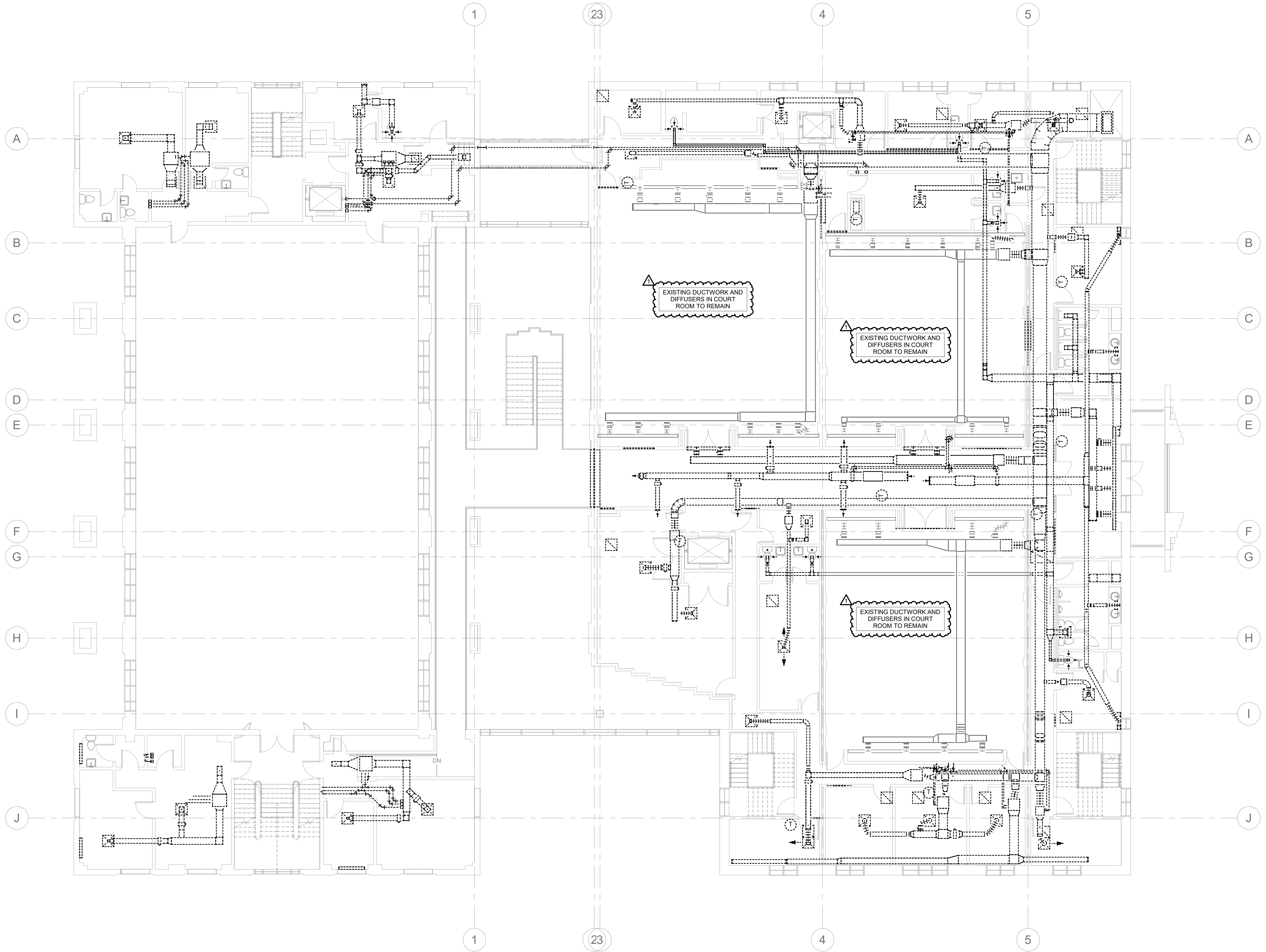
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1ST FLOOR DEMO PLAN

DRAWING NO.
DM1.1
Drawn By: EBZ Checked By: MAR

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1 2ND FLOOR DEMO PLAN
DM1.2
1/8" = 1'-0"
0 8' 16' 24'

PROJECT NUMBER: 22175-03
CONSULTANT:
PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
130 S QUEEN ST,
KINSTON, NC 28501

REVISIONS		
NO.	DATE	DESCRIPTION
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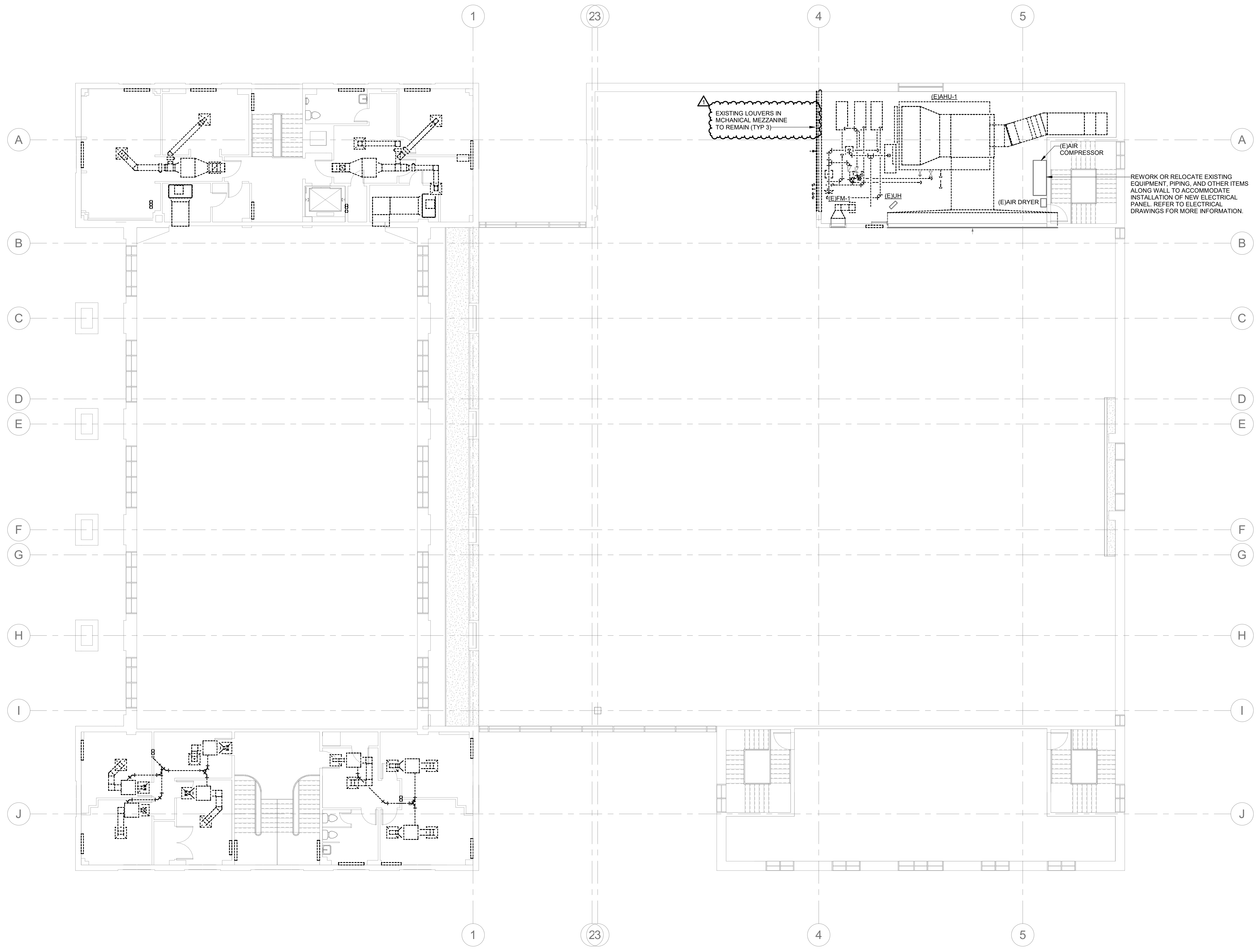
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DRAWING NAME
2ND FLOOR DEMO PLAN

DRAWING NO.
DM1.2
Drawn By: EBZ Checked By: MAR

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1 3RD FLOOR DEMO PLAN
DM1.3
1/8" = 1'-0"
0 8 16 24

SEALS

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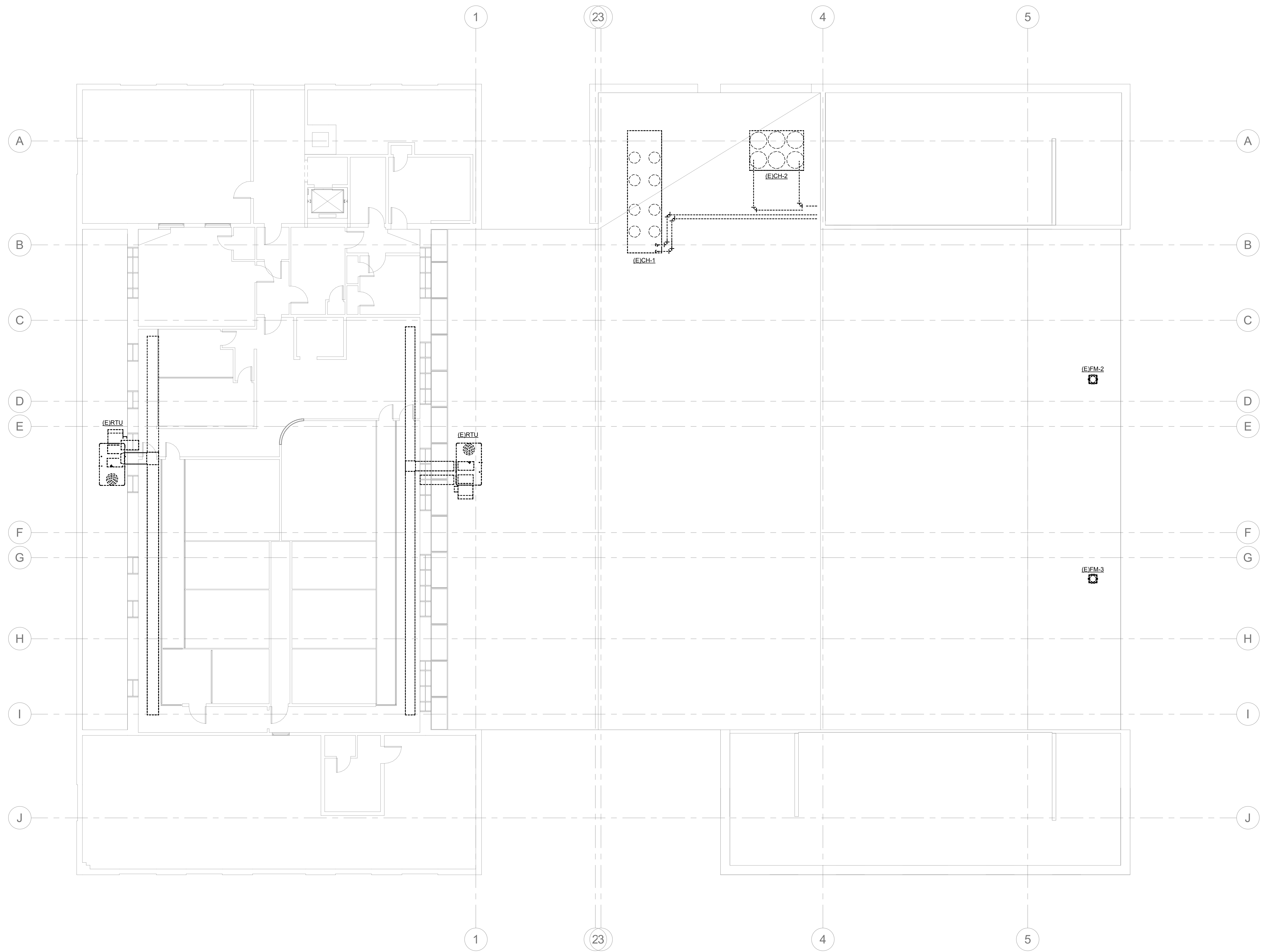
DRAWING NAME
**3RD FLOOR AND
MEZZANINE DEMO
PLAN**

DRAWING NO.
DM1.3

Drawn By: EBZ Checked By: MAR

GENERAL NOTES:

1. THE INFORMATION CONCERNING THE EXISTING MECHANICAL SYSTEMS IS BASED ON EXISTING DRAWINGS AND SITE VISITS DURING DESIGN. NOT ALL AREAS WERE FULLY ACCESSIBLE AT THAT TIME, AND NOT ALL OF THE EXISTING EQUIPMENT MAY BE SHOWN. IT IS INTENDED FOR ALL EXISTING MECHANICAL TO BE REMOVED EVEN IF IT IS NOT SHOWN UNLESS NOTED OTHERWISE. NO CHANGE ORDERS FOR REMOVAL OF EXISTING MECHANICAL SYSTEMS IN THE RENOVATED SPACE WILL BE ACCEPTED.
2. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL PHOTOGRAPHICALLY DOCUMENT ANY DAMAGE TO THE FACILITY THAT COULD BE REASONABLY CONTRIBUTED TO THEIR WORK EFFORT AND PROVIDE REPORT TO THE ENGINEER AND OWNER FOR CONFIRMATION. ANY DAMAGE THAT IS IDENTIFIED AFTER THE COMMENCEMENT OF WORK WILL BE CONTRIBUTED TO THE CONTRACTOR'S EFFORTS, AND REPAIRS SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
3. REMOVE ALL EXISTING MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED. REMOVE ALL ASSOCIATED DUCTWORK, DIFFUSERS, PIPING, ACCESSORIES, AND HANGERS UNLESS OTHERWISE NOTED.
4. REPAIR ALL AFFECTED AREAS TO LIKE-NEW CONDITION. CONTRACTOR TO VERIFY CONDITION OF ANY DAMAGED AREAS AND REPAIR OR REPLACE ITEMS AS NECESSARY.
5. DUCTWORK AND DIFFUSERS IN DISTRICT CRIMINAL COURT, DISTRICT CIVIL COURT, AND SUPERIOR CIVIL COURT ARE EXISTING TO REMAIN. CONTRACTOR TO VERIFY CONDITION OF AND CLEAN ALL REMAINING MATERIALS. CONTRACTOR TO REPAIR OR REPLACE AS NECESSARY.
6. ALL EXISTING OPENINGS ABOVE CEILINGS ARE TO REMAIN AS PATHWAY FOR BUILDING PRESSURE RELIEF SYSTEM.



1 4TH FLOOR DEMO PLAN
DM1.4
1/8" = 1'-0"

SEALS

DEVITA

ATLANTA • CHARLOTTE • GREENVILLE • RICHMOND
877.4.DEVITA • corp@devitainc.com

DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER: 22175-03
CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

130 S QUEEN ST,
KINSTON, NC 28501

REVISIONS		
NO.	DATE	DESCRIPTION
1	08/23/2023	ADDENDUM 1

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DRAWING NAME
4TH FLOOR AND ROOF DEMO PLAN

DRAWING NO.
DM1.4

Drawn By: EBZ Checked By: MAR

DEDICATED OUTSIDE AIR SPLIT SYSTEM SCHEDULE table with columns for MARK, OUTSIDE UNIT, INSIDE UNIT, AREA SERVED, MANUFACTURER, MODEL, HEAT PUMP (OUTSIDE UNIT), HEATING, EST. WEIGHT, AIR HANDLING UNIT (INSIDE UNIT), EXHAUST AIR CFM, SUMMER ENT. AIR D/W/B, ESP, FAN HP, KW, CONTROL, TEMP RISE, WEIGHT, ELECTRICAL DATA, NOTES.

PACKAGED ROOFTOP UNITS WITH ELECTRIC HEAT SCHEDULE table with columns for MARK, MANUFACTURER, MODEL, AREA SERVED, NOMINAL TONS, SUPPLY AIR (CFM), OUTSIDE AIR (CFM), ESP (IN WG), MOTOR HP, RPM, COOLING CAPACITY (BTUH), SENSIBLE COOLING (BTUH), KW INPUT, MBH OUTPUT, STAGES, ELECTRICAL DATA, MINIMUM EER (SEER), EST. WEIGHT (LBS), NOTES.

- NOTES: 1. ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE CARRIER, DAIKEN APPLIED, AND YORK. 2. COOLING CAPACITIES BASED ON 80°F DB / 67°F WB ENTERING COIL, 95°F DB ENTERING CONDENSER. 3. PROVIDE FACTORY FURNISHED 1/4" HIGH INSULATED ROOF CURB. 4. PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT WITH AUTO HEAT/COOL CHANGEOVER. THERMOSTAT SHALL BE EQUAL TO HONEYWELL T7350. REFER TO PLAN FOR THERMOSTAT LOCATIONS. 5. PROVIDE FACTORY INSTALLED DIRTY FILTER SWITCH AND BLOWER PROVING SWITCH. 6. PROVIDE 1 YEAR PARTS AND LABOR WARRANTY. 7. PROVIDE 5 YEAR PARTS WARRANTY ON COMPRESSORS. 8. SMOKE DETECTOR TO BE PROVIDED BY FIRE ALARM CONTRACTOR AND SHALL BE INSTALLED IN THE RETURN DUCTWORK. 9. PROVIDE FACTORY INSTALLED ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF. 10. PROVIDE MOTORIZED OUTSIDE AIR DAMPER. 11. MECHANICAL CONTRACTOR SHALL PROVIDE A SECOND SET OF FILTERS TO BE INSTALLED PRIOR TO OPENING. 12. UNIT SHALL USE R-410A REFRIGERANT. 13. MECHANICAL CONTRACTOR SHALL CONFIRM ALL UNITS HAVE BEEN PROPERLY STARTED AND CONFIRMED RUNNING PROPERLY. 14. LABEL UNITS WITH TAG NUMBER OR STENCIL TAG NUMBER ON SIDE OF UNIT WITH BLACK EXTERIOR PAINT. 15. PROVIDE FACTORY-MOUNTED DISCONNECT.

SPLIT SYSTEM SCHEDULE - COOLING ONLY table with columns for MARK, OUTSIDE UNIT, INSIDE UNIT, AREA SERVED, NOMINAL TONS, MANUF., CONDENSING UNIT (OUTSIDE UNIT), COOLING (TOTAL, SENSIBLE, EER, EST. WEIGHT), AIR HANDLING UNIT (INSIDE UNIT), MODEL NUMBER, SUPPLY AIR, OUTSIDE AIR, ESP, FAN HP, WEIGHT, ELECTRICAL DATA, NOTES.

- NOTES: 1. ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE CARRIER, DAIKEN APPLIED, AND YORK. 2. COOLING CAPACITIES BASED ON 80°F DB / 67°F WB ENTERING COIL, 95°F DB ENTERING CONDENSER. 3. PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL BE EQUAL TO HONEYWELL T7350. REFER TO PLAN FOR THERMOSTAT LOCATIONS. 4. PROVIDE FACTORY INSTALLED DIRTY FILTER SWITCH AND BLOWER PROVING SWITCH. 5. PROVIDE 1 YEAR PARTS AND LABOR WARRANTY. 6. PROVIDE 5 YEAR PARTS WARRANTY ON COMPRESSORS. 7. MECHANICAL CONTRACTOR SHALL PROVIDE A SECOND SET OF FILTERS TO BE INSTALLED PRIOR TO OPENING. 8. EACH CONDENSING UNIT AND EACH AIR HANDLER SHALL BE WIRED FOR A SINGLE POINT CONNECTION. 9. UNIT SHALL USE R-410A REFRIGERANT. 10. PROVIDE WITH VIBRATION ISOLATION. 11. PROVIDE WITH COOLING COIL FROM THE SAME MANUFACTURER. 12. PROVIDE OUTDOOR UNIT WITH 4" HIGH CONCRETE HOUSEKEEPING PAD FOR GROUND-MOUNTED EQUIPMENT OR ROOF RAILS FOR ROOF-MOUNTED EQUIPMENT. 13. MECHANICAL CONTRACTOR SHALL CONFIRM ALL UNITS HAVE BEEN PROPERLY STARTED AND CONFIRMED RUNNING PROPERLY. 14. LABEL UNITS WITH TAG NUMBER OR STENCIL TAG NUMBER ON SIDE OF OUTSIDE UNIT WITH BLACK EXTERIOR PAINT. 15. PROVIDE AIR HANDLER WITH CONDENSATE PUMP.

FAN SCHEDULE table with columns for MARK, MANUFACTURER, MODEL, AREA SERVED, SERVICE, TYPE, CFM, STATIC PRESSURE (IN WG), NOMINAL RPM, DRIVE TYPE, ELECTRICAL DATA, MOTOR HP (WATTS), CONTROL, SONES, WEIGHT, NOTES.

LOUVER SCHEDULE table with columns for MARK, MANUFACTURER, MODEL, TYPE, OPENING, FREE AREA (SQ FT), MAX VELOCITY (FPM), PRESSURE DROP (IN. WG), SCREEN TYPE, NOTES.

- NOTES: 1. LOUVER DIMENSIONS ARE 1/4" LESS THAN OPENING DIMENSIONS. 2. LOUVER SHALL BE AMCA CERTIFIED. 3. PROVIDE WITH MANUFACTURER STANDARD CORROSION RESISTANT FINISH. 4. FINISH SHALL BE SELECTED TO MATCH EXISTING LOUVERS CURRENTLY IN USE. 5. ACCEPTABLE ALTERNATE MANUFACTURERS SHALL BE GREENHECK. 6. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN. MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT. THERMAL ZONE: 4A. winter dry bulb 22.4° F., summer dry bulb 94.4° F. INTERIOR DESIGN CONDITIONS: winter dry bulb 68° F., summer dry bulb 74° F., relative humidity 50% R.H. BUILDING HEATING LOAD: 236,500 BTUH (peak). BUILDING COOLING LOAD: 577,500 BTUH (peak). MECHANICAL SPACING CONDITIONING SYSTEM: UNITARY VRF DX COOLING HEAT PUMP. description of unit: SEE SCHEDULE. heating efficiency: SEE SCHEDULE. cooling efficiency: SEE SCHEDULE. size category of unit: SEE SCHEDULE. BOILER: size category: N/A. CHILLER: size category: N/A. LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULE.

AIR DISTRIBUTION SCHEDULE table with columns for MARK, TYPE, DESCRIPTION, DESIGN BASIS (MANUF., MODEL), FACE SIZE, NECK SIZE, MATERIAL, NOTES.

- NOTES: 1. PROVIDE OPPOSED BLADE DAMPERS IN NECK OF DIFFUSER OR REGISTER, WITH ACCESS TO DAMPER THROUGH FACE OF DIFFUSER OR REGISTER. 2. FINISH SHALL MATCH EXISTING DIFFUSERS AND GRILLES CURRENTLY IN USE. 3. CONTRACTOR TO VERIFY MOUNTING TYPE WITH EXISTING CONDITIONS. 4. ACCEPTABLE EQUALS INCLUDE METALAIR AND TITUS. 5. CONTRACTOR SHALL CLEAN EXISTING DIFFUSER OR GRILLE AND VERIFY AS OPERATIONAL. REPAIR OR REPLACE AS NECESSARY. ANY REPLACEMENT DIFFUSER OR GRILLE SHALL BE SELECTED TO MATCH EXISTING AND VERIFIED TO HANDLE AIRFLOW AS LISTED ON THE MECHANICAL PLANS.

VENTILATION COMPLIANCE SCHEDULE table with columns for UNIT MARK, AREA SERVED, AREA (FT²), PEOPLE PER 1000 FT², NUMBER OF PEOPLE, AIRFLOW PER PERSON, AIRFLOW PER FT², OUTSIDE AIR REQUIRED (CFM), TOTAL OUTSIDE AIR PROVIDED (CFM), TOTAL OUTSIDE AIR PROVIDED (CFM).

- NOTES: 1. PEOPLE DENSITY, CFM PER PERSON, AND CFM PER SQUARE FOOT ARE BASED ON THE MECHANICAL CODE DEFAULT VALUES UNLESS NOTED OTHERWISE.

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DeVita & Associates, Inc. Project #: 22175-03 NC Firm License # C-0819

PROJECT NUMBER: 22175-03 CONSULTANT

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

130 S QUEEN ST, KINSTON, NC 28501

REVISIONS table with columns for NO., DATE, DESCRIPTION. 1. 08/23/2023 ADDENDUM 1

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DRAWING NAME MECHANICAL SCHEDULES

DRAWING NO. M0.2

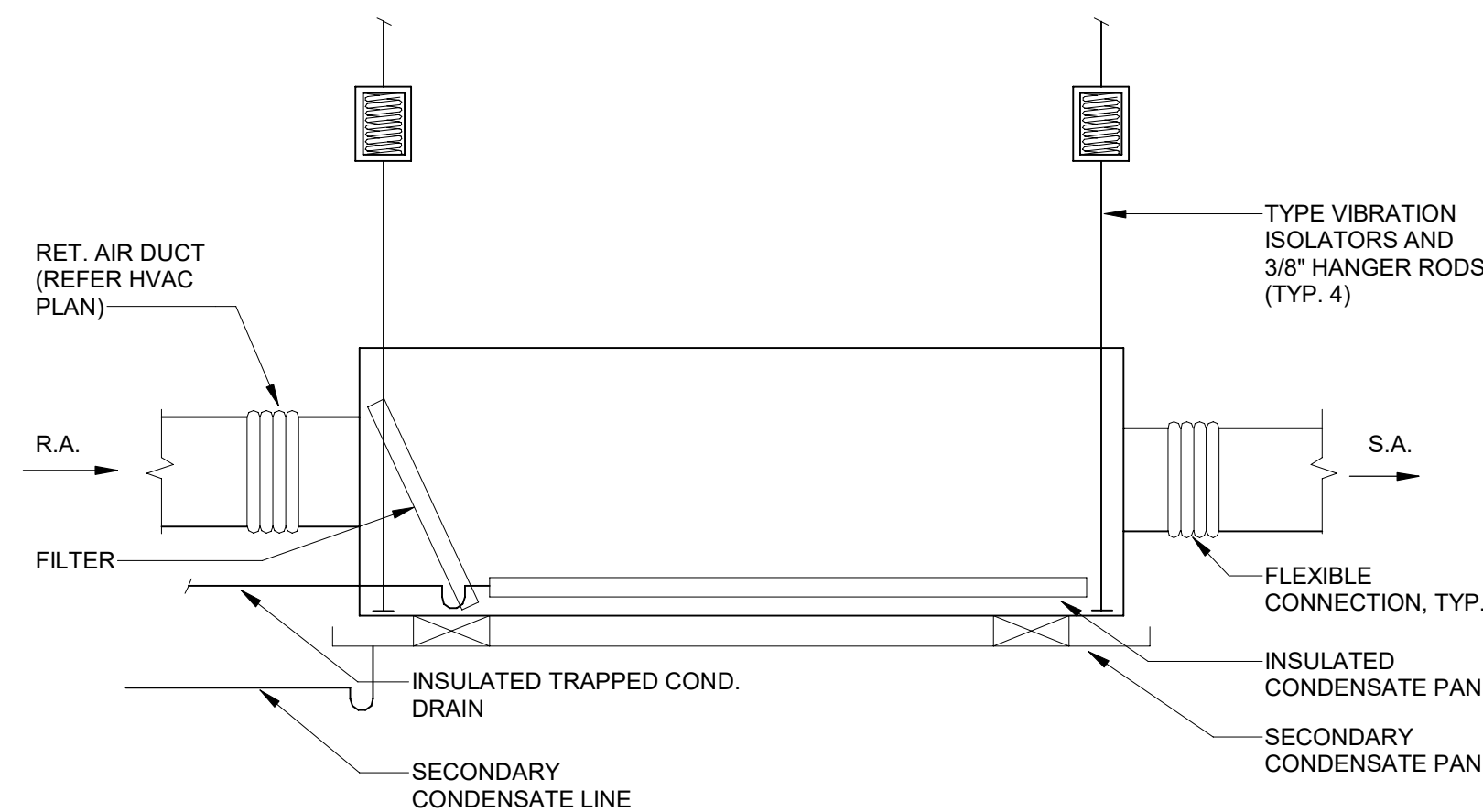
Drawn By: EBZ Checked By: MAR

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

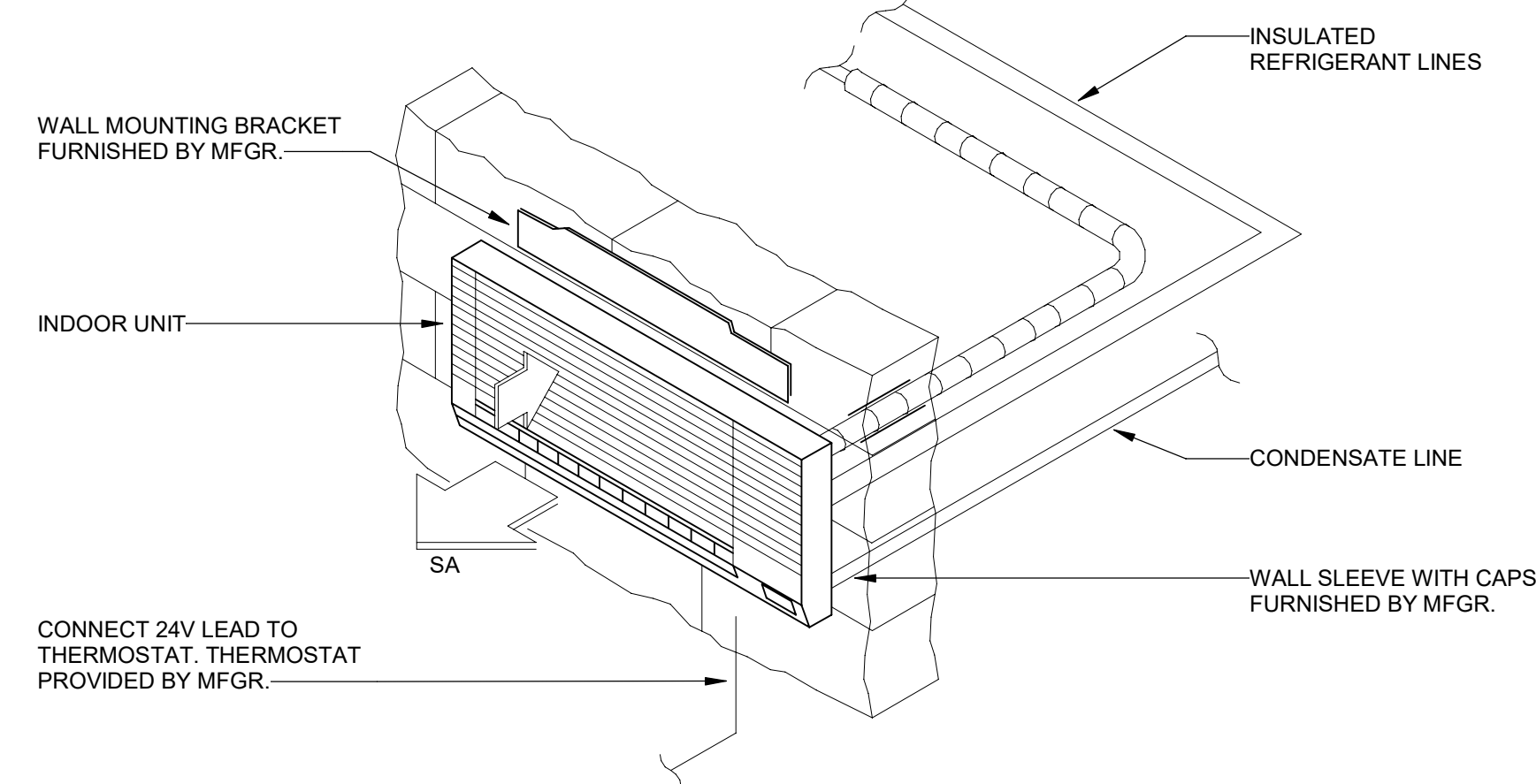
REVISIONS		
NO.	DATE	DESCRIPTION
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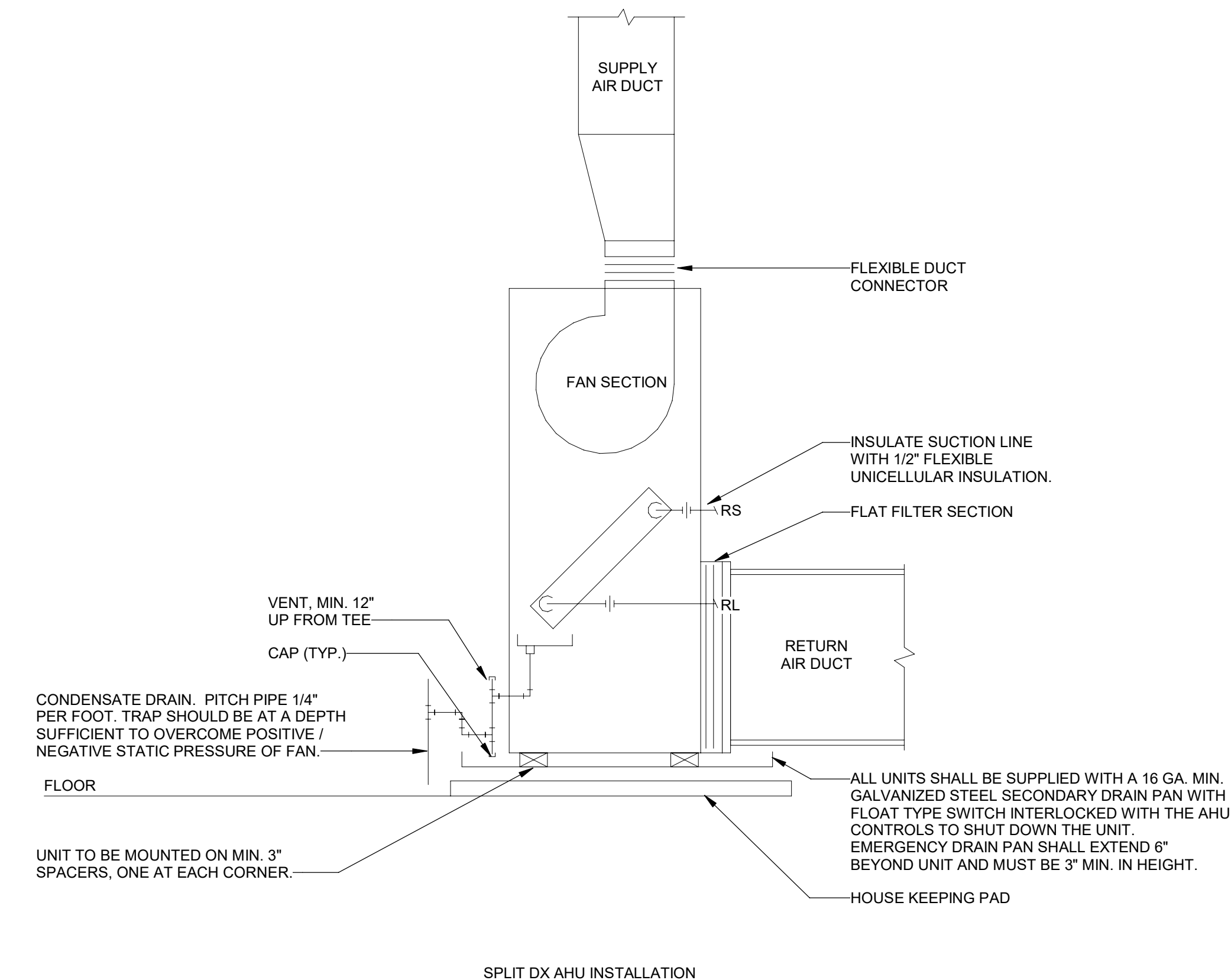
DRAWING NAME
MECHANICAL DETAILS



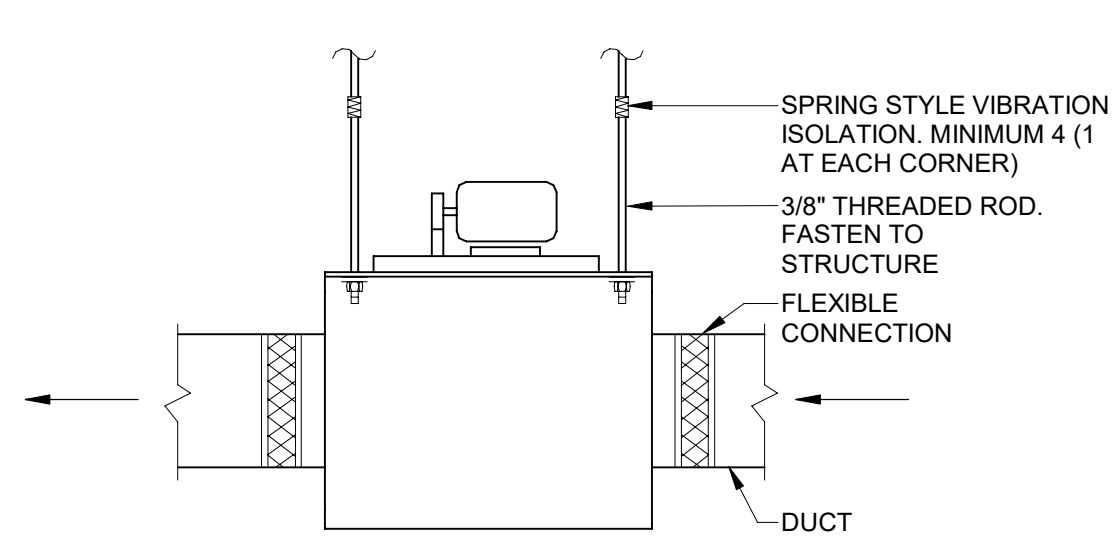
1 CONCEALED DUCTED SPLIT SYSTEM
 M0.6 NOT TO SCALE



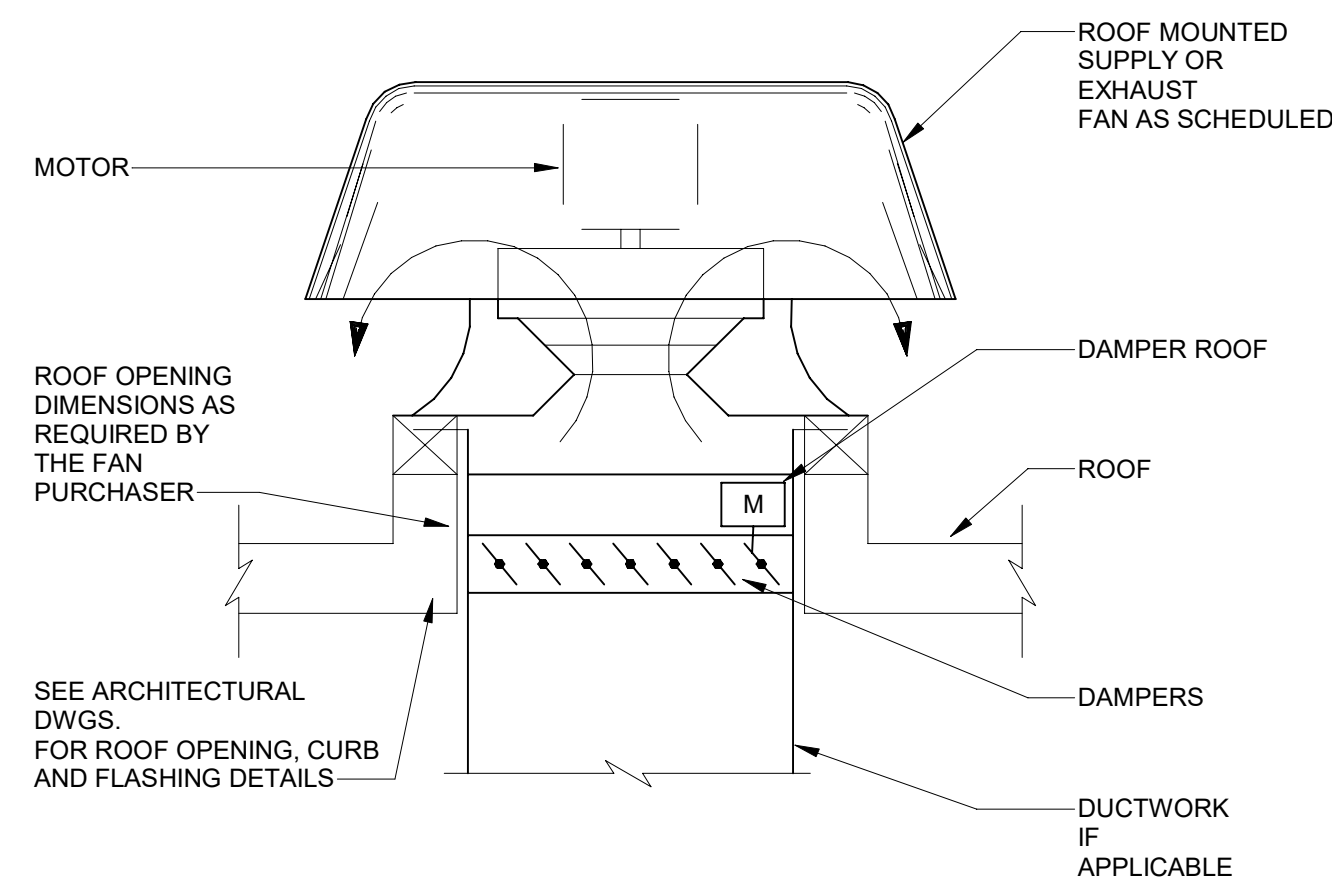
2 DUCTLESS WALL-HUNG SPLIT SYSTEM
 M0.6 NOT TO SCALE



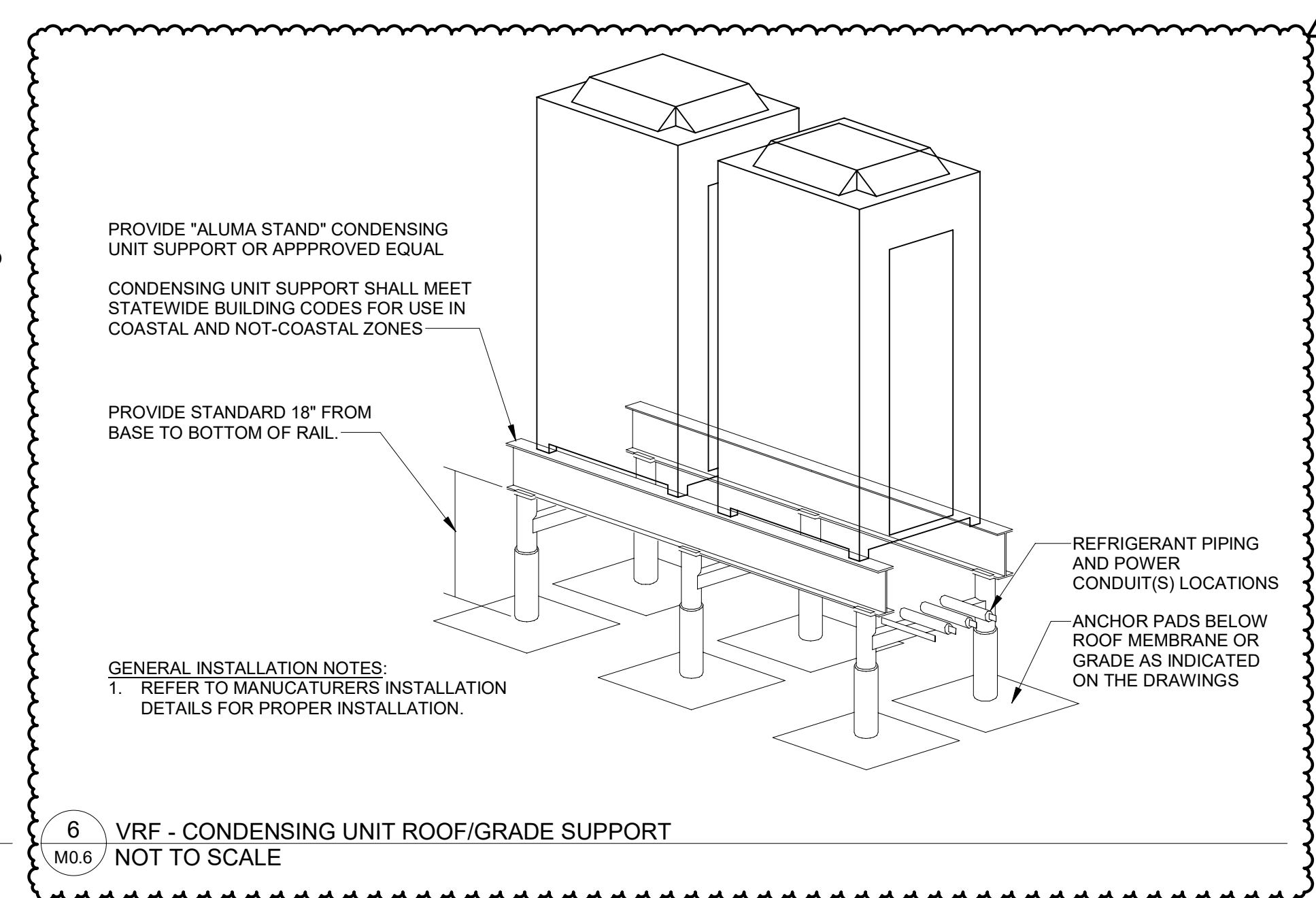
3 AIR HANDLING UNIT INSTALLATION
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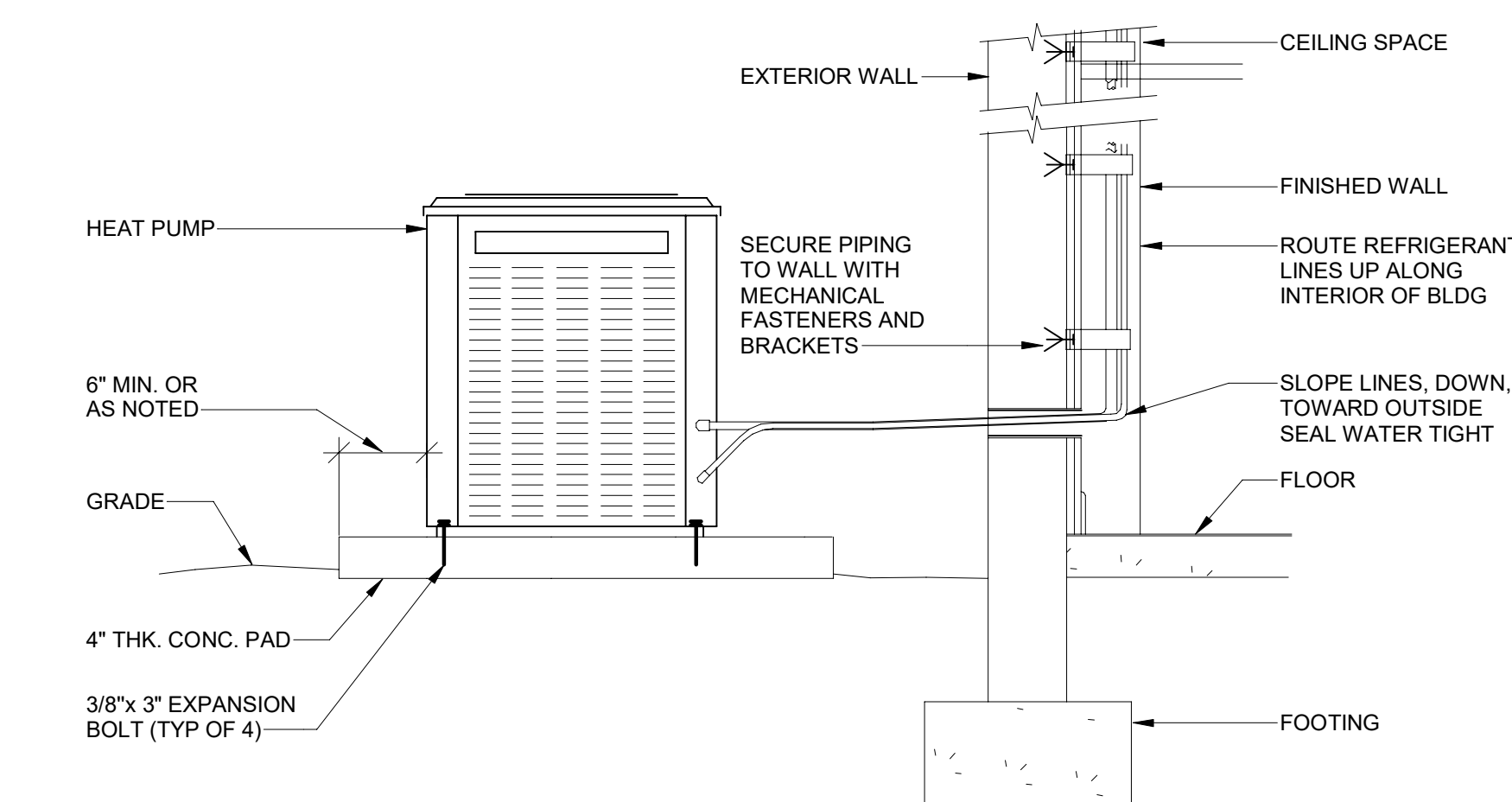
4 INLINE CABINET FAN
 M0.6 NOT TO SCALE



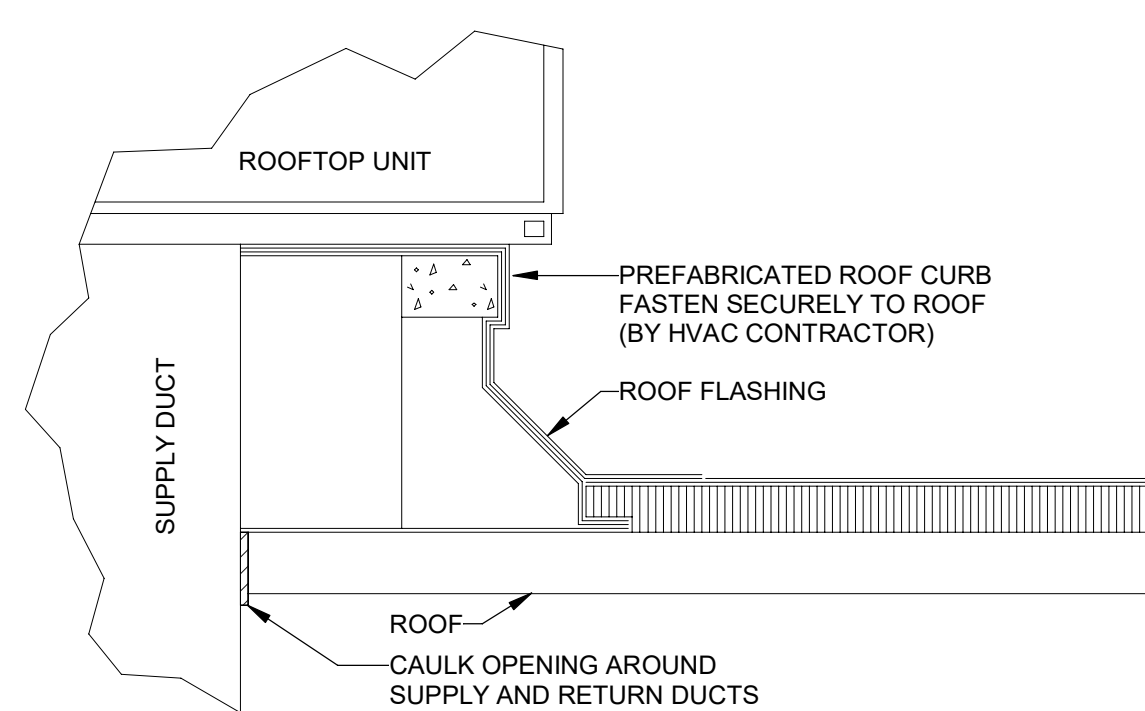
5 ROOF-MOUNTED EXHAUST & SUPPLY FAN
 M0.6 NOT TO SCALE



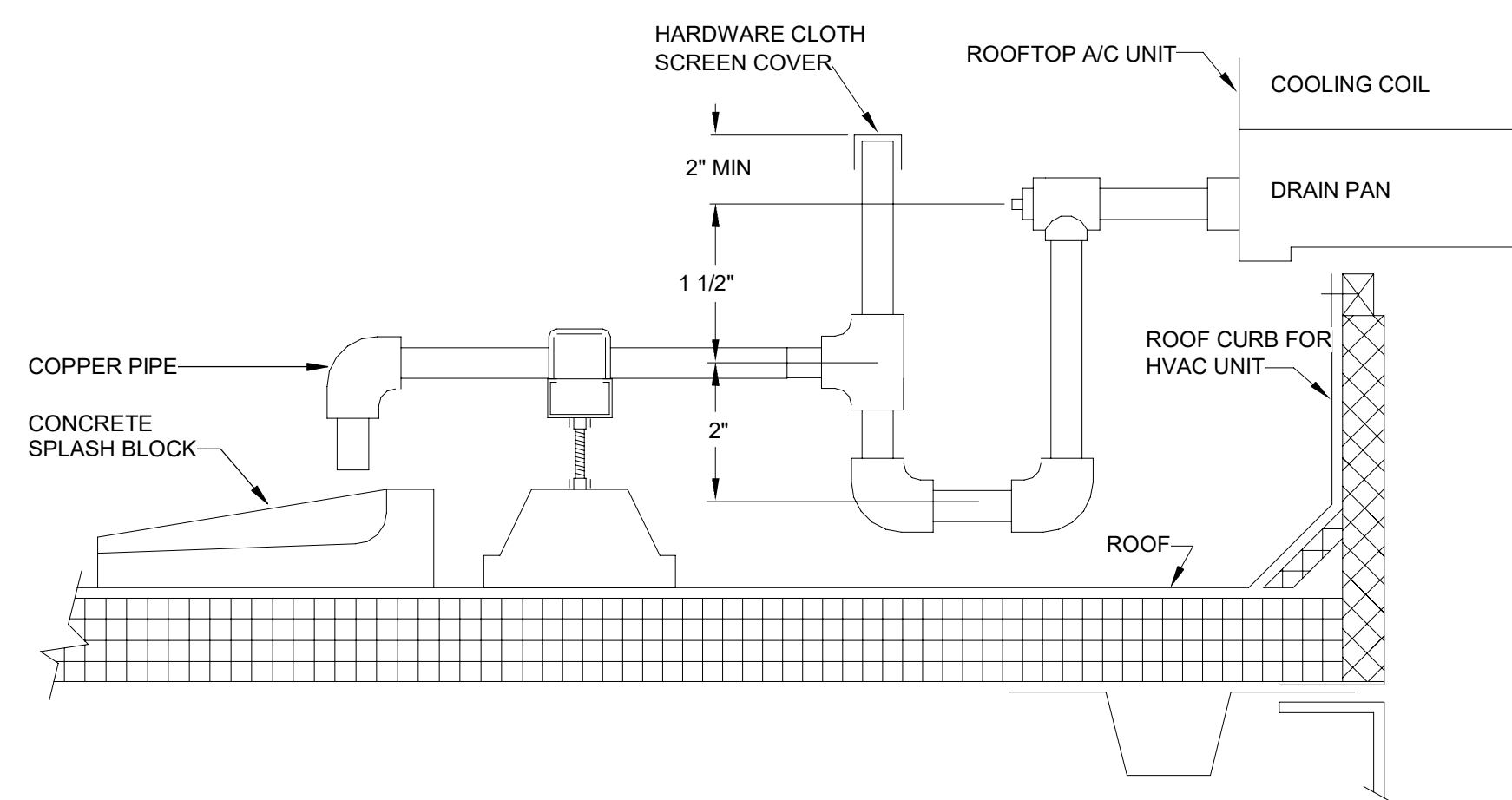
6 VRF - CONDENSING UNIT ROOF/GRADE SUPPORT
 M0.6 NOT TO SCALE



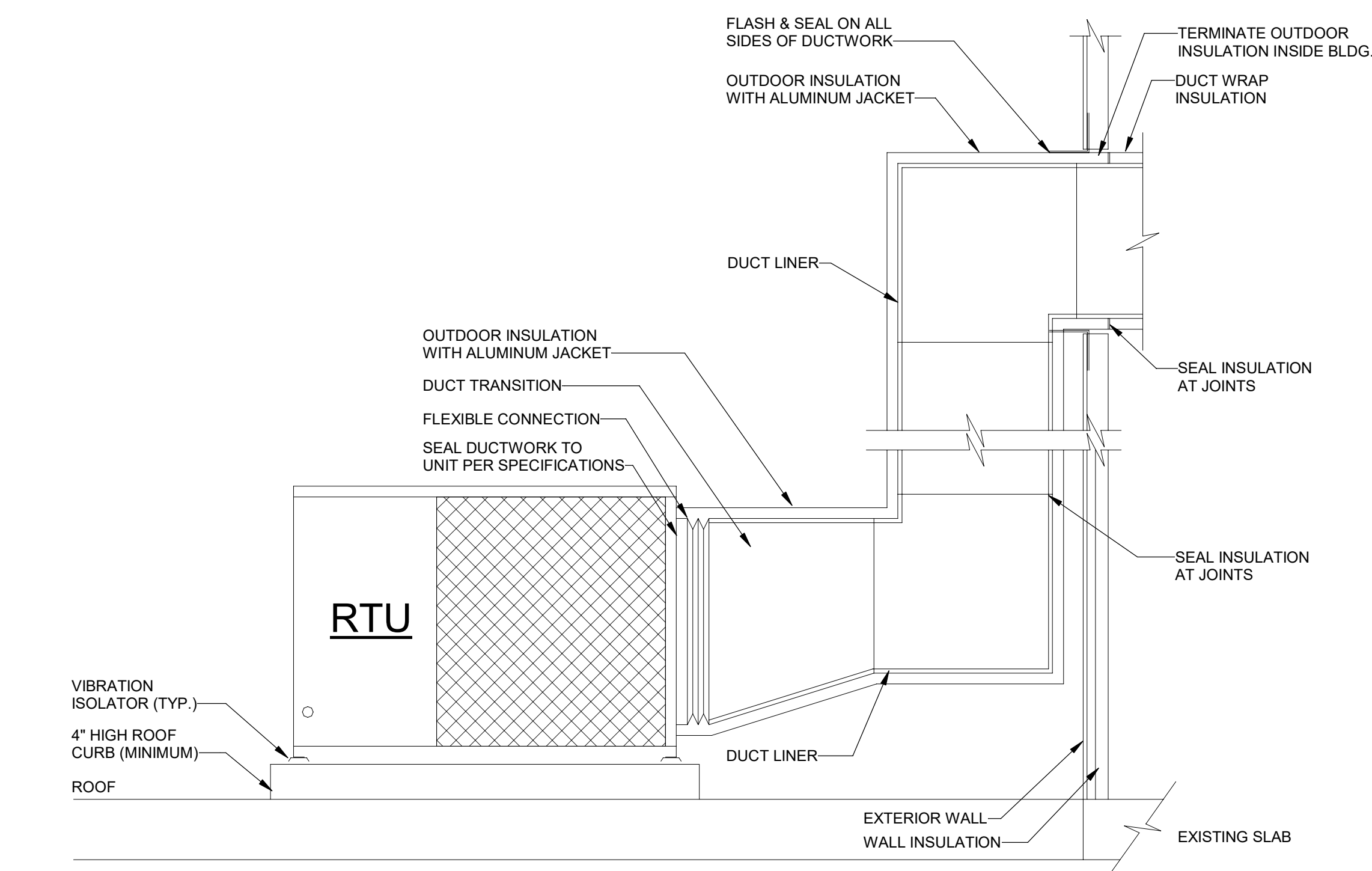
7 HEAT PUMP - ON GROUND
 M0.6 NOT TO SCALE



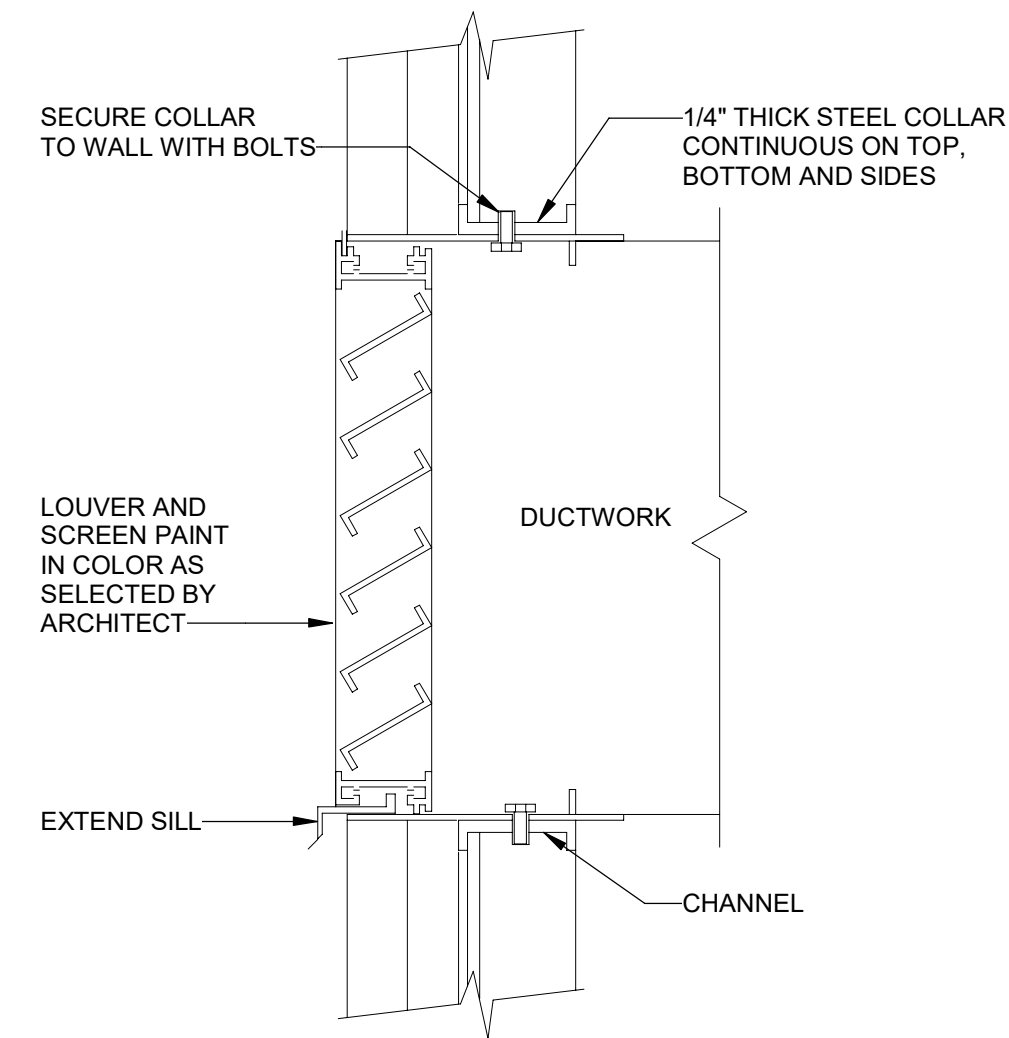
8 ROOF TOP UNIT CURB DETAIL
 M0.6 NOT TO SCALE



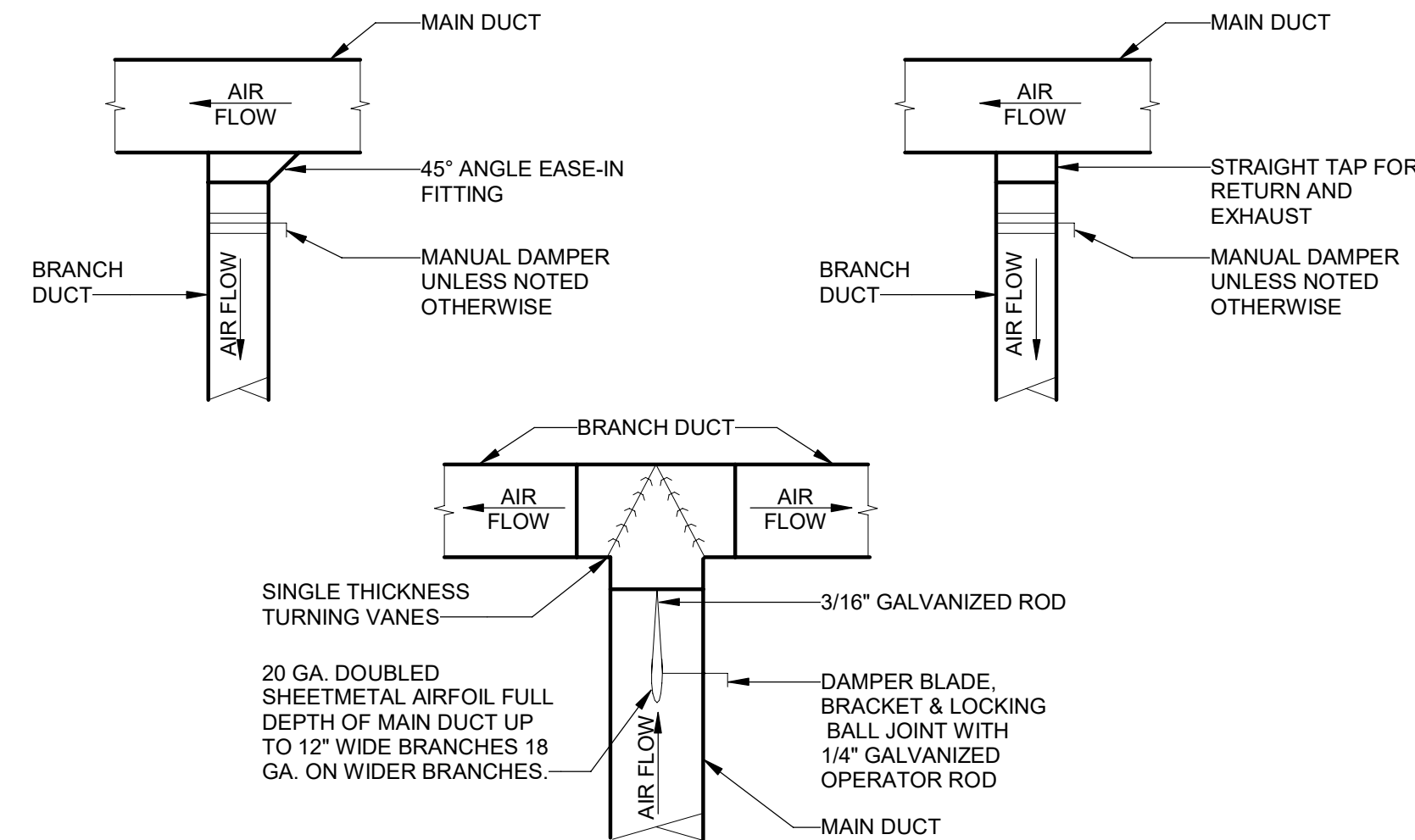
9 CONDENSATE DRAIN DETAIL FOR ROOFTOP A/C UNIT - SPLASH BLOCK
 M0.6 NOT TO SCALE



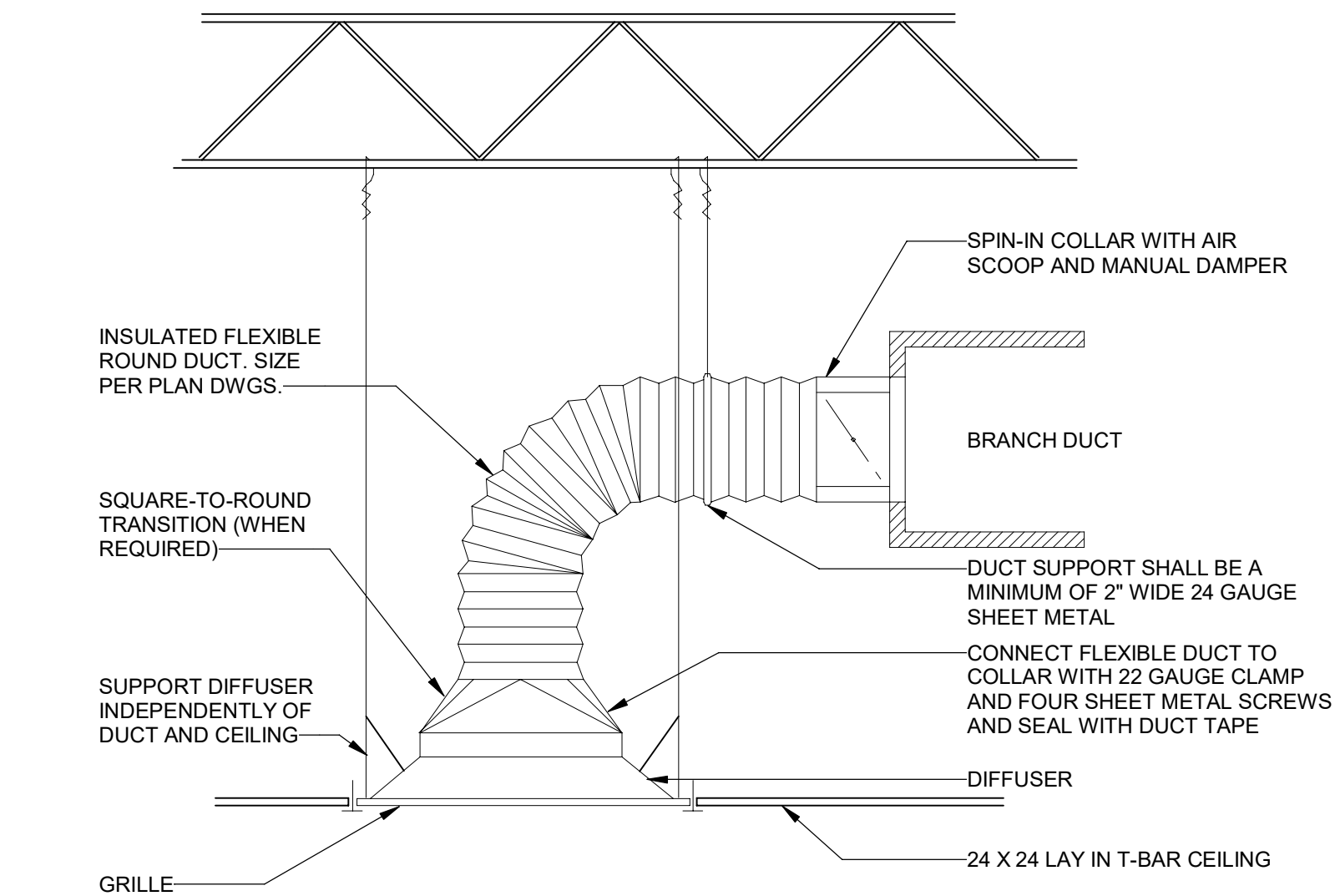
10 AIR CONDITIONING UNIT DETAIL
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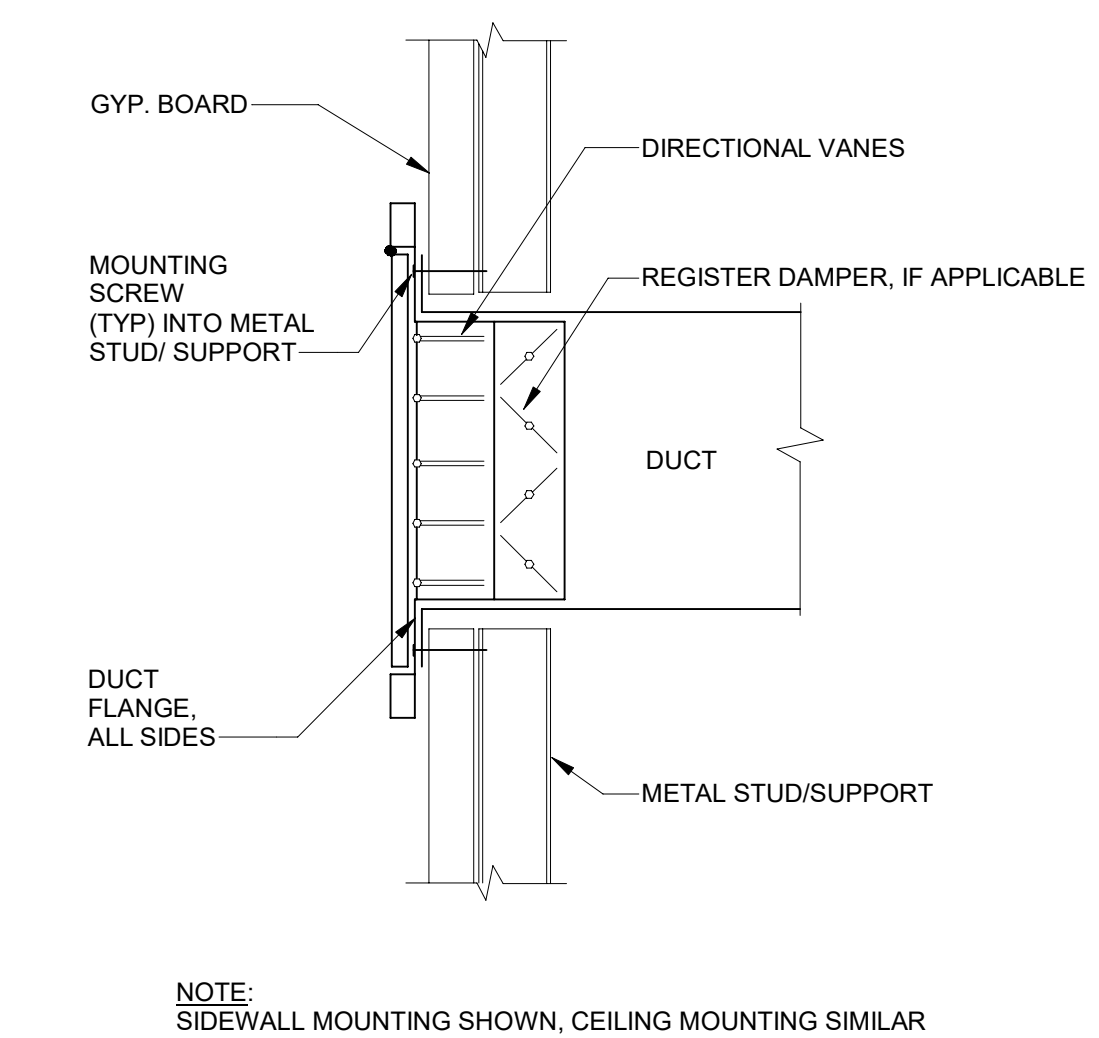
1 M0.7 STATIONARY LOUVER DETAIL
NOT TO SCALE



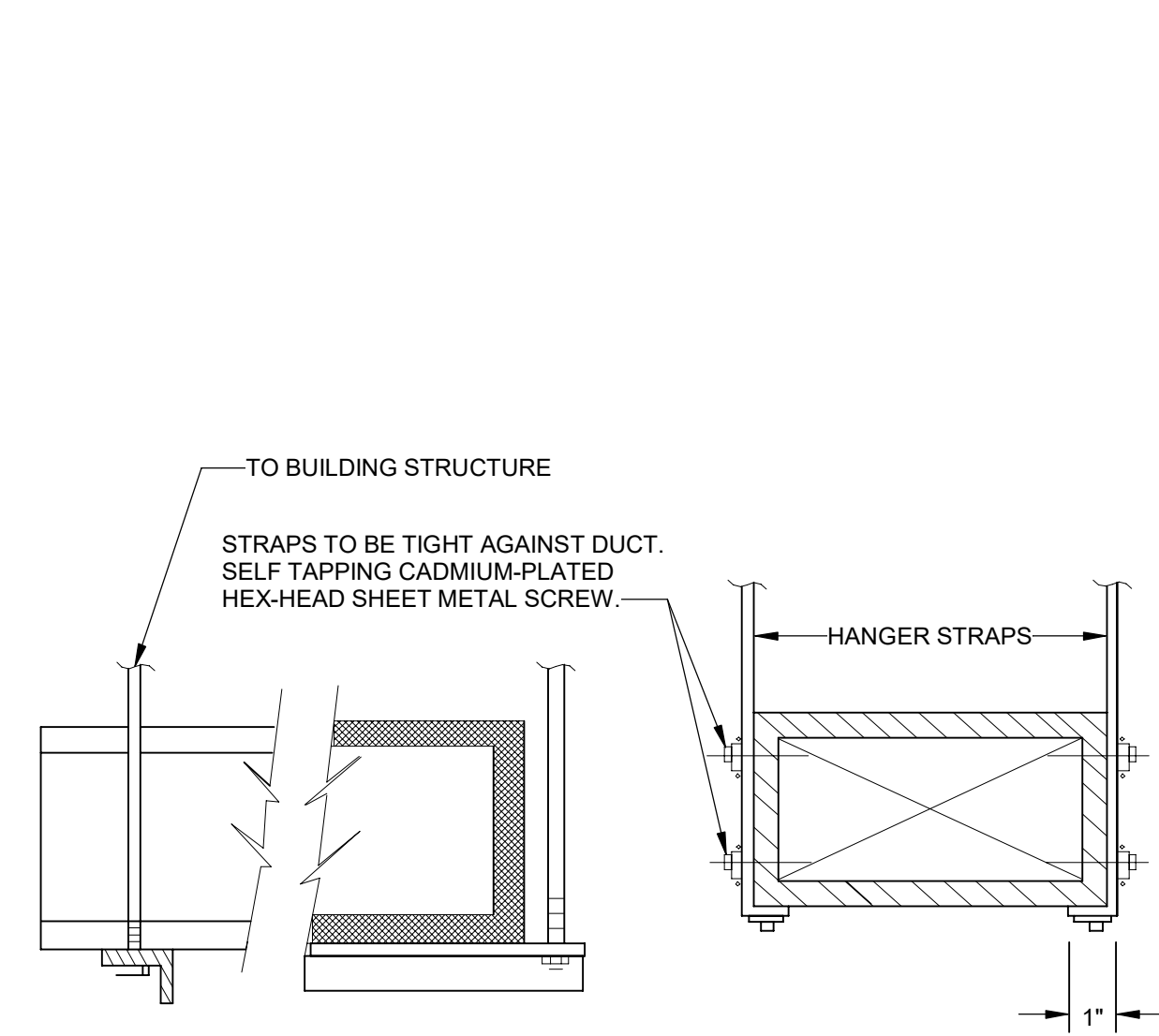
2 M0.7 DUCT CONNECTOR
NOT TO SCALE



3 M0.7 SUPPLY DIFFUSER INSTALLATION (FLEXIBLE DUCT)
NOT TO SCALE

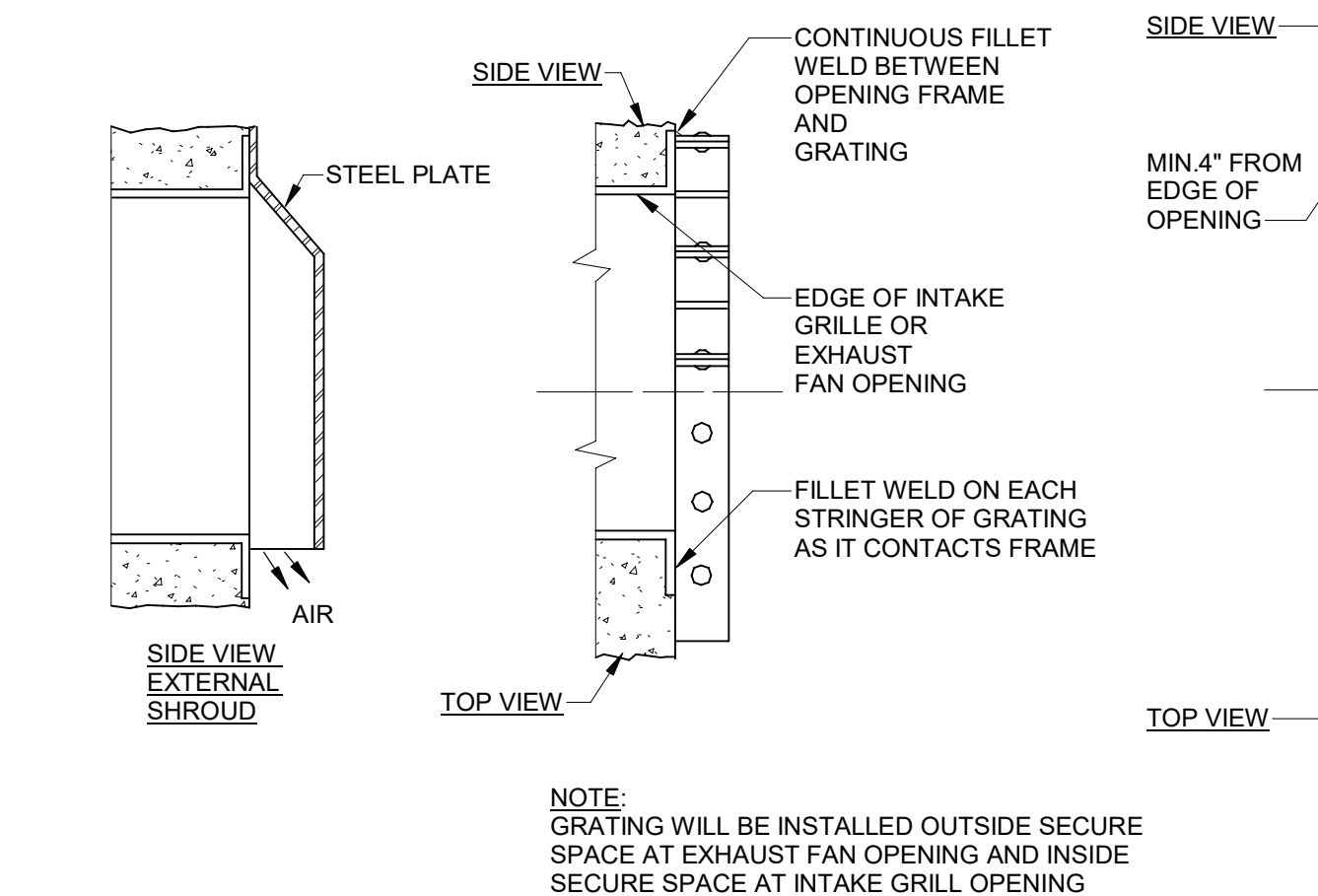
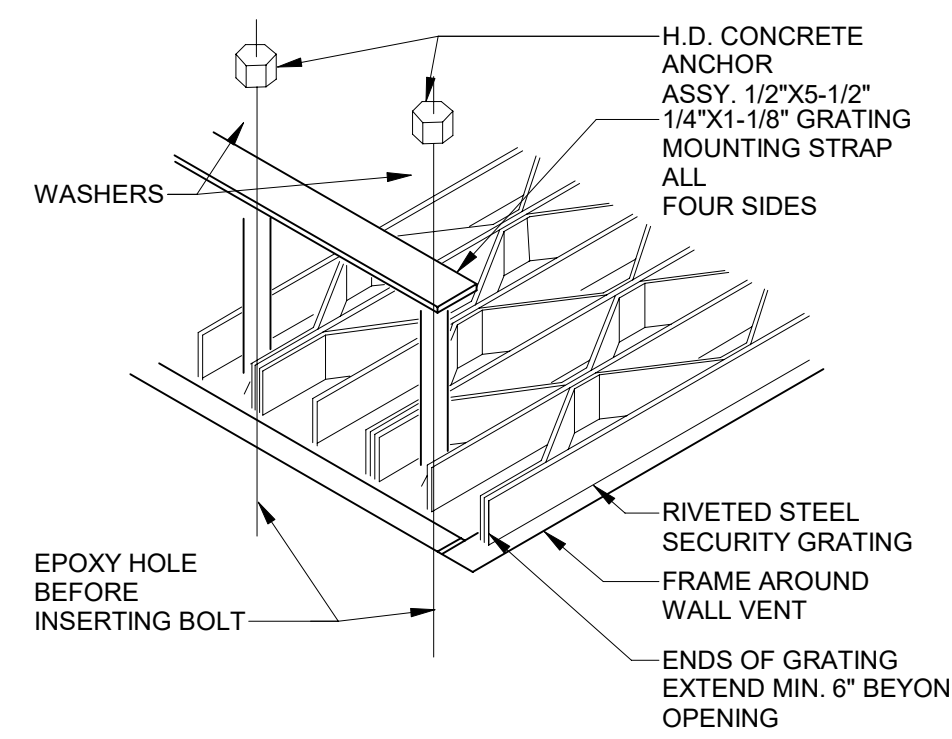


4 M0.7 GRILLE/REGISTER DUCT CONNECTION
NOT TO SCALE

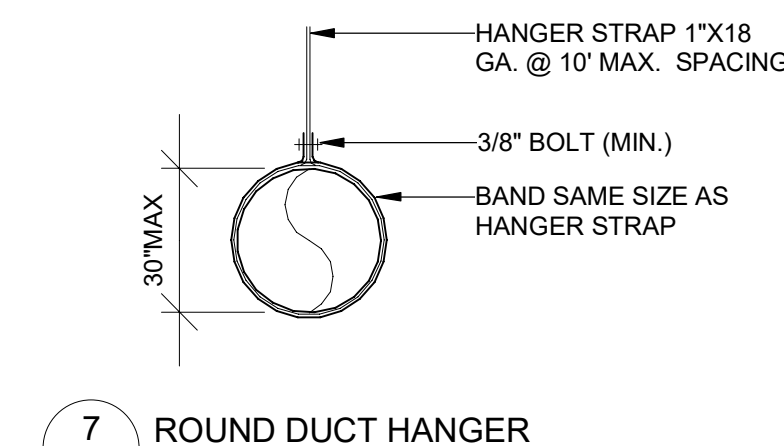


HANGER SIZES FOR RECTANGULAR DUCTS			
MAX. SIDE	HANGER	SUPPORT ANGLE HORIZONTAL	SPACING MAXIMUM
30"	1" x 1/8" GAUGE STRAP	NONE REQUIRED	10'-0"
36"	1/4" ROUND ROD	1-1/2" x 1-1/2" x 1/8"	8'-0"
48"	1/4" ROUND ROD	2" x 2" x 1/8"	8'-0"
60"	5/16" ROUND ROD	2" x 2" x 1/8"	8'-0"
84"	3/8" ROUND ROD	2" x 2" x 1/8"	8'-0"

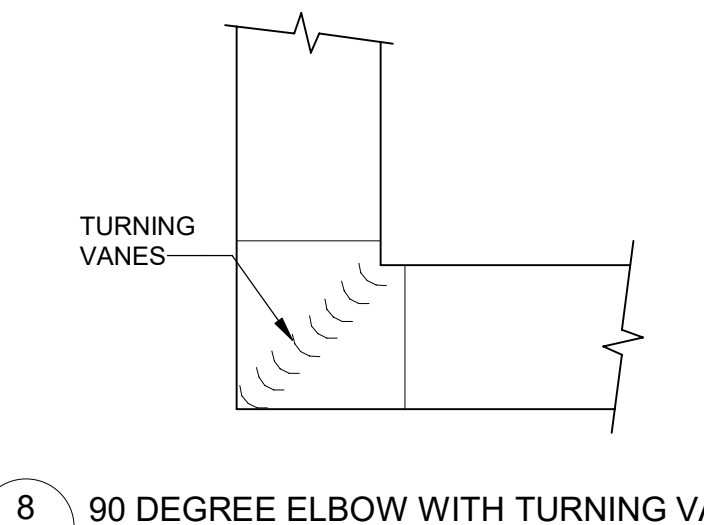
5 M0.7 TYPICAL RECTANGULAR DUCT HANGER
NOT TO SCALE



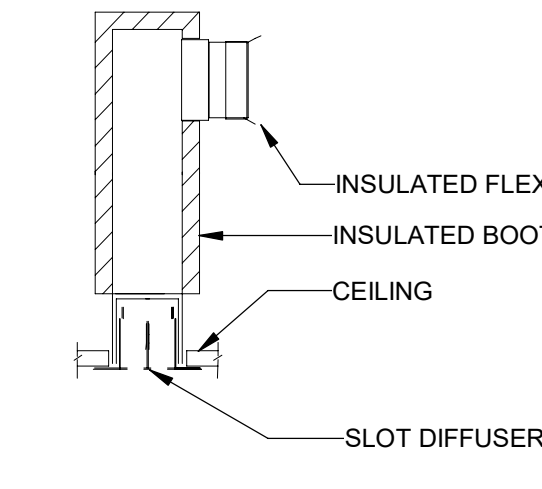
6 M0.7 SECURITY GRATING
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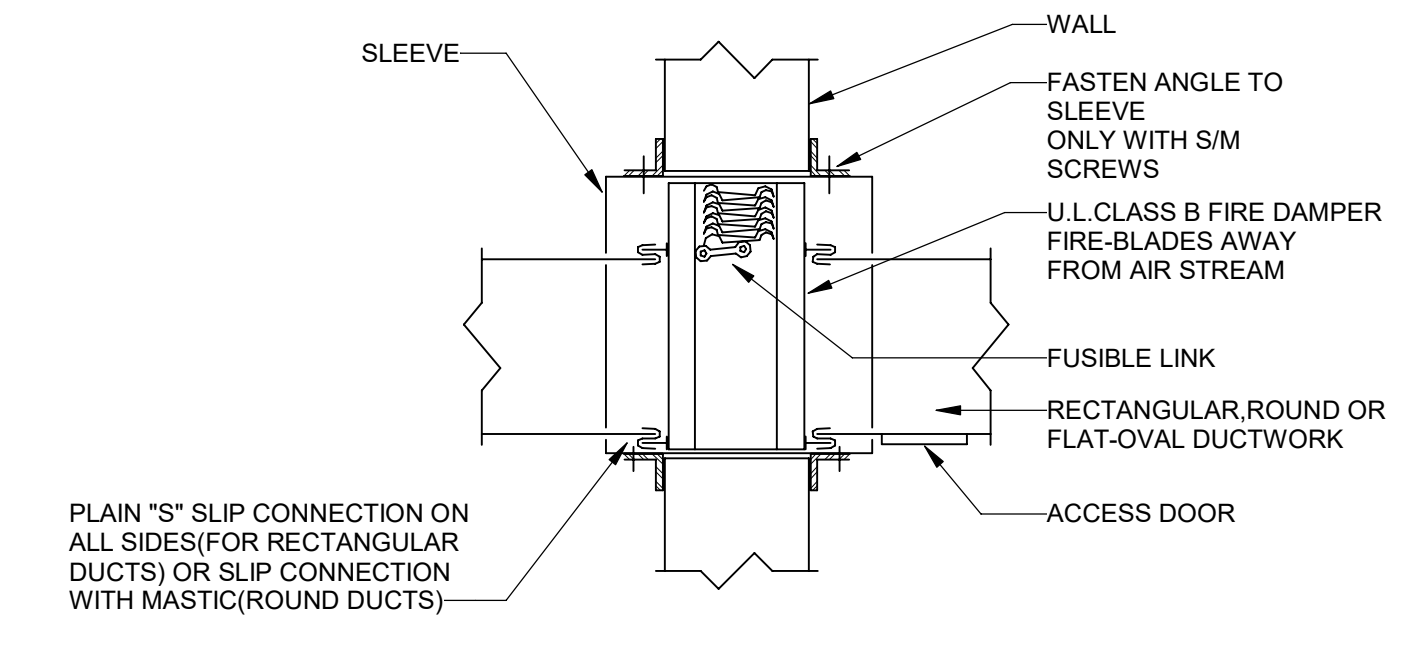
7 M0.7 ROUND DUCT HANGER
NOT TO SCALE



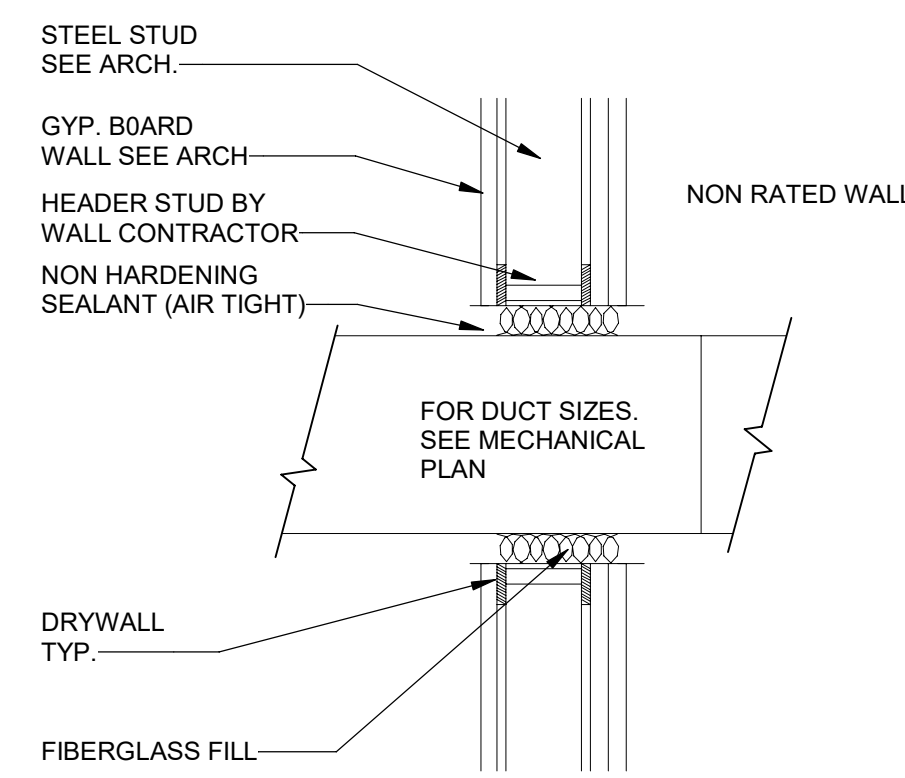
8 M0.7 90 DEGREE ELBOW WITH TURNING VANES
NOT TO SCALE



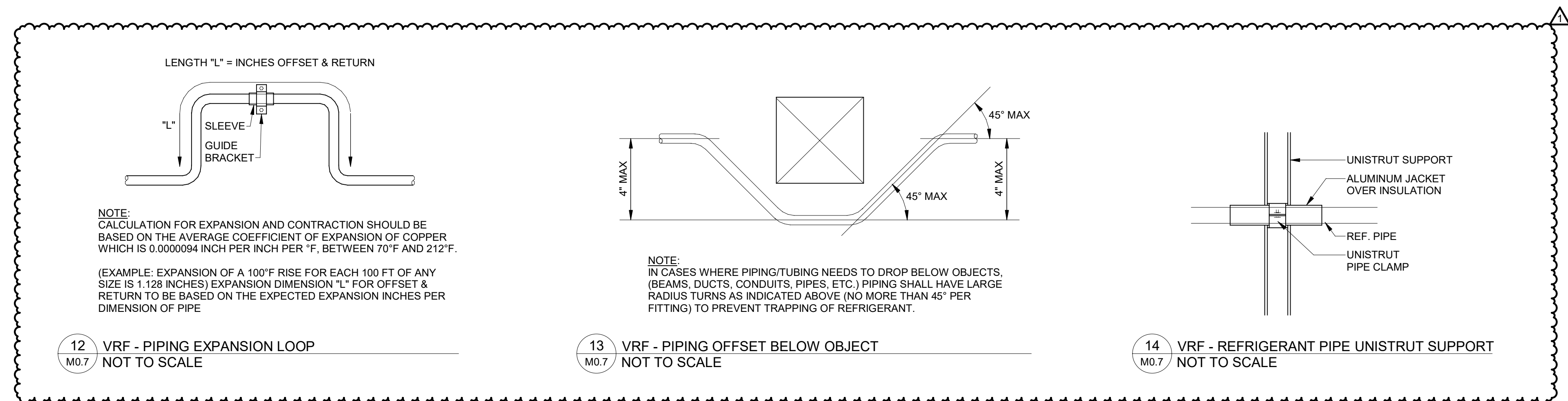
9 M0.7 SLOT DIFFUSER DETAIL
NOT TO SCALE



10 M0.7 FIRE DAMPER DETAIL
NOT TO SCALE



11 M0.7 DUCT PENETRATION OF WALL
NOT TO SCALE



12 M0.7 VRF - PIPING EXPANSION LOOP
NOT TO SCALE

13 M0.7 VRF - PIPING OFFSET BELOW OBJECT
NOT TO SCALE

14 M0.7 VRF - REFRIGERANT PIPE UNISTRUT SUPPORT
NOT TO SCALE

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
130 S QUEEN ST,
KINSTON, NC 28501

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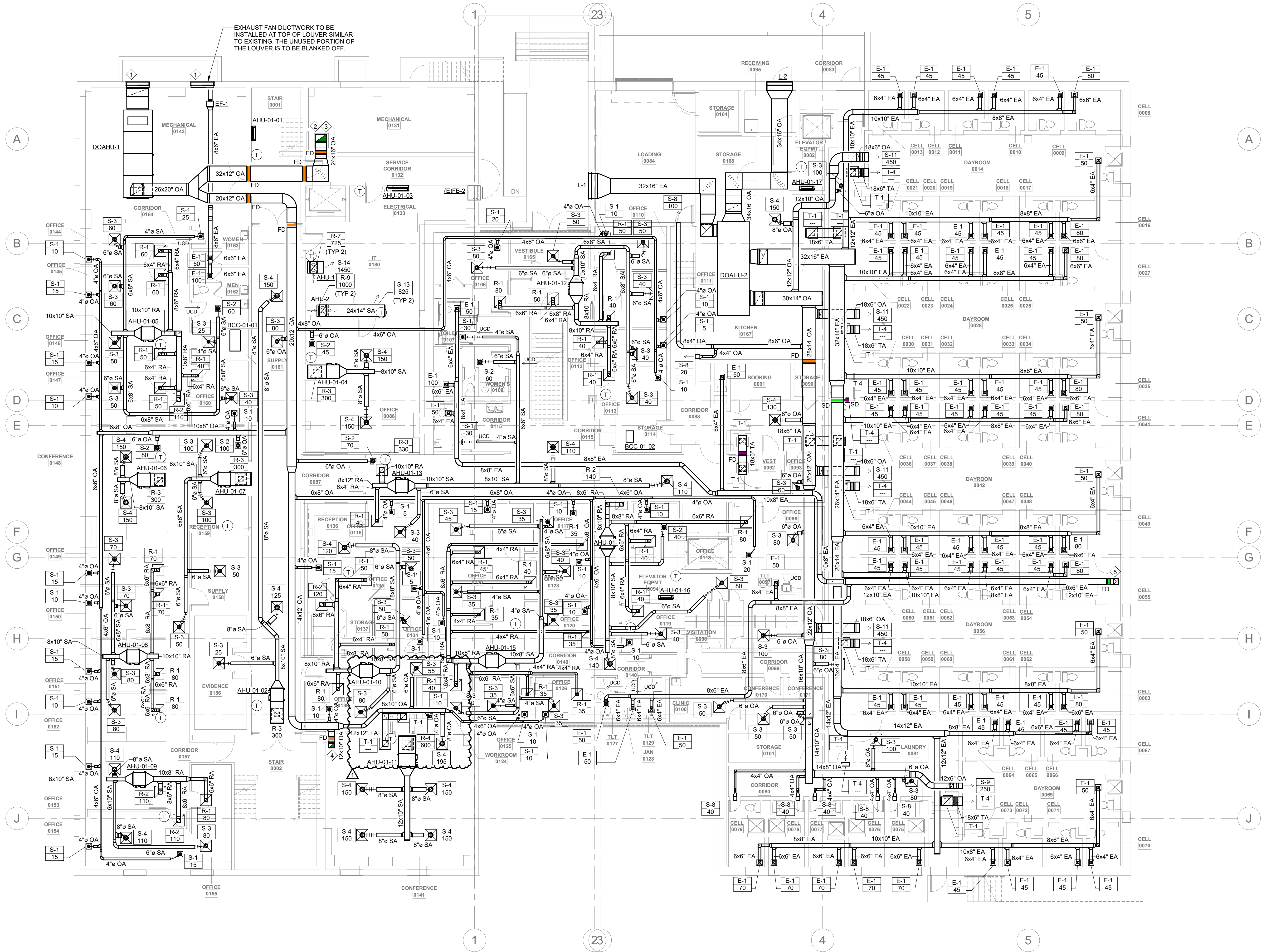
DRAWING NAME
MECHANICAL DETAILS

GENERAL NOTES:

- FOR ALL THERMOSTATS INSTALL NEW PROGRAMMABLE AUTO-CHANGOVER THERMOSTAT TO CONTROL HVAC UNIT. MOUNT AT 48" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT. SHOULD THERMOSTAT REQUIRE INSTALLATION ON EXTERIOR WALL, PROVIDE INSULATED BACKING PLATE TO PREVENT FALSE READINGS.
- ROUTE AIR HANDLER CONDENSATE TO NEAREST APPROVED PLACE OF DISPOSAL.

PLAN NOTES:

- EXISTING LOUVER TO REMAIN. CONTRACTOR TO VERIFY CONDITION AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY LOUVER IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW FOR EQUIPMENT.
- CONTRACTOR TO CAP AND SEAL EXISTING BOILER FLUE FOR USE AS DUCT CHASE. CONTRACTOR TO CLEAN AND VERIFY CONDITION OF FLUE. REPAIR AS NECESSARY.
- ROUTE 24"x16" OA DUCT UP THROUGH CHASE.
- ROUTE 12"x10" OA DUCT UP THROUGH CHASE.
- ROUTE 12"x10" EA DUCT UP THROUGH CHASE.



1 BASEMENT MECHANICAL PLAN
 1/8" = 1'-0"
 0 8 16 24



PROJECT NUMBER: 22175-03
 CONSULTANT

PROJECT INFORMATION:

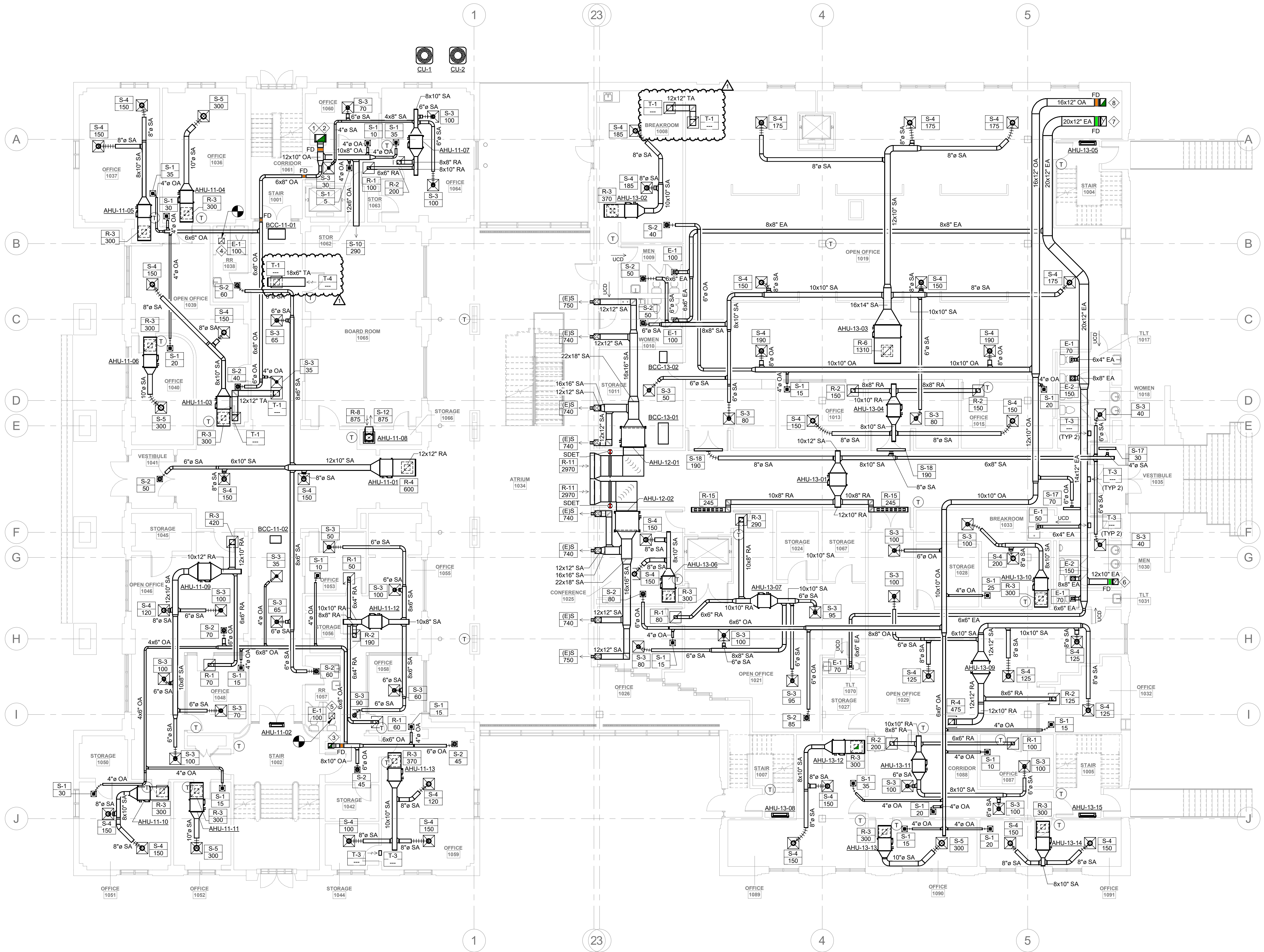
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DRAWING NAME
MECHANICAL BASEMENT PLAN

DRAWING NO.
M1.0
 Drawn By: EBZ Checked By: MAR



1 1ST FLOOR MECHANICAL PLAN
 M1.1
 1/8" = 1'-0"

GENERAL NOTES:

- FOR ALL THERMOSTATS INSTALL NEW PROGRAMMABLE AUTO-CHANGEOVER THERMOSTAT TO CONTROL HVAC UNIT. MOUNT AT 48" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT. SHOULD THERMOSTAT REQUIRE INSTALLATION ON EXTERIOR WALL, PROVIDE INSULATED BACKING PLATE TO PREVENT FALSE READINGS.
- ROUTE AIR HANDLER CONDENSATE TO NEAREST APPROVED PLACE OF DISPOSAL.

PLAN NOTES:

- CONTRACTOR TO CAP AND SEAL EXISTING BOILER FLUE FOR USE AS DUCT CHASE. CONTRACTOR TO CLEAN AND VERIFY CONDITION OF FLUE. REPAIR AS NECESSARY.
- 24"x16" OA DUCT FROM BASEMENT. TRANSITION TO 20"x16" AFTER TAP AND ROUTE UP TO SECOND FLOOR.
- 22"x10" OA DUCT FROM BASEMENT. TRANSITION TO 8"x8" AFTER TAP AND ROUTE UP TO SECOND FLOOR.
- REPLACE EXISTING EXHAUST GRILLE AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM ON NORTH SIDE OF 1932 BUILDING. CONTRACTOR TO VERIFY CONDITION OF EXISTING DUCTWORK AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY EXISTING DUCTWORK IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW AT AMOUNT SPECIFIED ON DRAWINGS IN A MECHANICAL VENTILATION SYSTEM SERVED BY E-2. IF THE EXISTING DUCTWORK IS UNDERSIZED, CONTRACTOR TO REPLACE WITH NEW DUCTWORK SIZED SUFFICIENTLY TO MAINTAIN DESIGNED AIRFLOW AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM.
- REPLACE EXISTING EXHAUST GRILLE AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM ON SOUTH SIDE OF 1932 BUILDING. CONTRACTOR TO VERIFY CONDITION OF EXISTING DUCTWORK AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY EXISTING DUCTWORK IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW AT AMOUNT SPECIFIED ON DRAWINGS IN A MECHANICAL VENTILATION SYSTEM SERVED BY E-3. IF THE EXISTING DUCTWORK IS UNDERSIZED, CONTRACTOR TO REPLACE WITH NEW DUCTWORK SIZED SUFFICIENTLY TO MAINTAIN DESIGNED AIRFLOW AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM.
- 12"x10" EA DUCT UP THROUGH CHASE FROM BASEMENT.
- 20"x12" EA DUCT UP THROUGH CHASE TO SECOND FLOOR.
- 16"x12" OA DUCT UP THROUGH CHASE TO SECOND FLOOR.

SEALS

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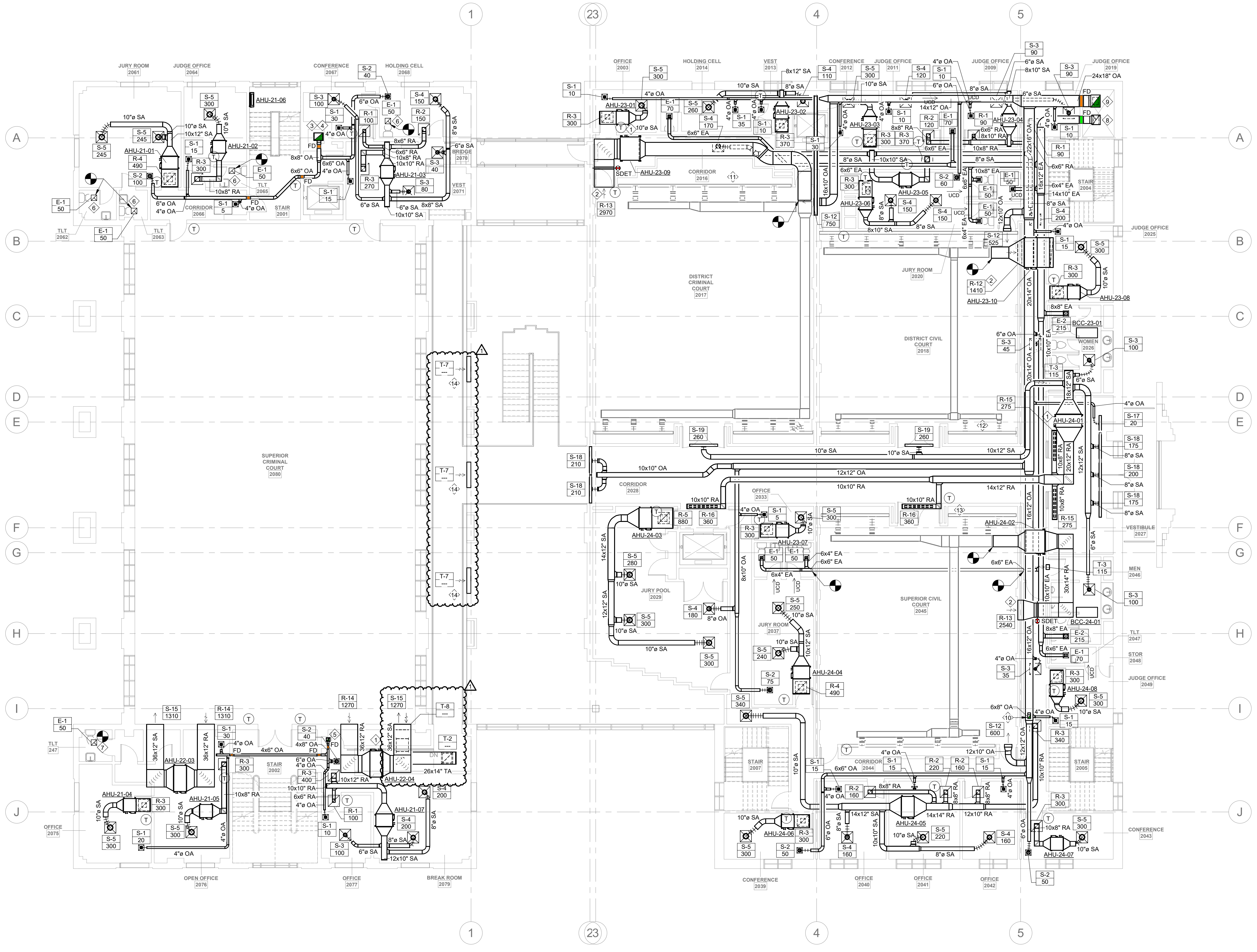
REVISIONS

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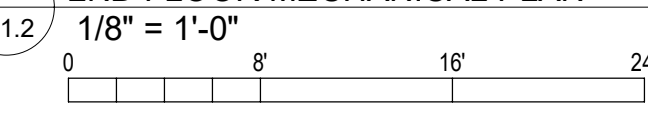
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DRAWING NAME
MECHANICAL 1ST FLOOR PLAN

DRAWING NO. **M1.1**
 Drawn By: EBZ Checked By: MAR



1 2ND FLOOR MECHANICAL PLAN
1/8" = 1'-0"



GENERAL NOTES:

- FOR ALL THERMOSTATS INSTALL NEW PROGRAMMABLE AUTO-CHANGOVER THERMOSTAT TO CONTROL HVAC UNIT. MOUNT AT 48" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT. SHOULD THERMOSTAT REQUIRE INSTALLATION ON EXTERIOR WALL, PROVIDE INSULATED BACKING PLATE TO PREVENT FALSE READINGS.
- ROUTE AIR HANDLER CONDENSATE TO NEAREST APPROVED PLACE OF DISPOSAL.

PLAN NOTES:

- PROVIDE ACCESS PANEL IN WALL ABOVE CEILING TO PROVIDE PROPER CLEARANCE FOR UNITS ELECTRICAL CONNECTIONS.
- RETURN GRILLE TO BE MOUNTED ABOVE CEILING IN COURT ROOM.
- CONTRACTOR TO CAP AND SEAL EXISTING BOILER FLUE FOR USE AS DUCT CHASE. CONTRACTOR TO CLEAN AND VERIFY CONDITION OF FLUE. REPAIR AS NECESSARY.
- 20"x16" OA DUCT FROM FIRST FLOOR. TRANSITION TO 18"x16" AFTER TAP AND ROUTE UP TO THIRD FLOOR.
- 8"x8" OA DUCT FROM FIRST FLOOR. TRANSITION TO 6"x6" AFTER TAP AND ROUTE UP TO THIRD FLOOR.
- REPLACE EXISTING EXHAUST GRILLE AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM ON NORTH SIDE OF 1932 BUILDING. CONTRACTOR TO VERIFY CONDITION OF EXISTING DUCTWORK AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY EXISTING DUCTWORK IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW AT AMOUNT SPECIFIED ON DRAWINGS IN A MECHANICAL VENTILATION SYSTEM SERVED BY EE-2. IF THE EXISTING DUCTWORK IS UNDERSIZED, CONTRACTOR TO REPLACE WITH NEW DUCTWORK SIZED SUFFICIENTLY TO MAINTAIN DESIGNED AIRFLOW AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM.
- REPLACE EXISTING EXHAUST GRILLE AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM ON SOUTH SIDE OF 1932 BUILDING. CONTRACTOR TO VERIFY CONDITION OF EXISTING DUCTWORK AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY EXISTING DUCTWORK IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW AT AMOUNT SPECIFIED ON DRAWINGS IN A MECHANICAL VENTILATION SYSTEM SERVED BY EE-3. IF THE EXISTING DUCTWORK IS UNDERSIZED, CONTRACTOR TO REPLACE WITH NEW DUCTWORK SIZED SUFFICIENTLY TO MAINTAIN DESIGNED AIRFLOW AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM.
- 20"x18" EA DUCT DOWN FROM MECHANICAL MEZZANINE. TRANSITION TO 20"x12" AFTER TAP AND ROUTE DOWN TO FIRST FLOOR.
- 26"x20" OA DUCT DOWN FROM MECHANICAL MEZZANINE. TRANSITION TO 16"x12" AFTER TAP AND ROUTE DOWN TO FIRST FLOOR.
- ROUTE 6"x8" OA DUCT UP TO JUST BELOW ROOF TO PROVIDE OUTSIDE AIR TO RECORDS 3026 ON THIRD FLOOR MEZZANINE.
- BALANCE AT 51 CFM/F. (TYP 3).
- BALANCE AT 24 CFM/F. (TYP 3).
- BALANCE AT 50 CFM/F. (TYP 3).
- INSTALL TRANSFER GRILLE IN VERTICAL WALL BEHIND COLUMNS TO PROVIDE PATHWAY TO ABOVE SECOND FLOOR CEILING FOR BUILDING PRESSURE RELIEF.



PROJECT NUMBER: 22175-03
CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

130 S QUEEN ST, KINSTON, NC 28501

REVISIONS

NO.	DATE	DESCRIPTION
1	08/23/2023	ADDENDUM 1

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DRAWING NAME
MECHANICAL 2ND FLOOR PLAN

DRAWING NO. **M1.2**
Drawn By: EBZ Checked By: MAR

GENERAL NOTES:

- FOR ALL THERMOSTATS INSTALL NEW PROGRAMMABLE AUTO-CHANGEOVER THERMOSTAT TO CONTROL HVAC UNIT. MOUNT AT 48" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT. SHOULD THERMOSTAT REQUIRE INSTALLATION ON EXTERIOR WALL, PROVIDE INSULATED BACKING PLATE TO PREVENT FALSE READINGS.
- ROUTE AIR HANDLER CONDENSATE TO NEAREST SUPPLY AND RETURN AIR SECTIONS.

PLAN NOTES:

- CONNECT DUCTWORK TO EXISTING WOODEN LOUVER. BLANK OFF MIDDLE SECTION OF LOUVER TO SEPARATE SUPPLY AND RETURN AIR SECTIONS.
- CONTRACTOR TO CAP AND SEAL EXISTING BOILER FLUE FOR USE AS DUCT CHASE. CONTRACTOR TO CLEAN AND VERIFY CONDITION OF FLUE. REPAIR AS NECESSARY.
- 18"x16" OA DUCT UP FROM CHASE.
- 6"x6" OA DUCT UP FROM CHASE.
- REPLACE EXISTING EXHAUST GRILLE AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM ON NORTH SIDE OF 1932 BUILDING. CONTRACTOR TO VERIFY CONDITION OF EXISTING DUCTWORK AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY EXISTING DUCTWORK IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW AT AMOUNT SPECIFIED ON DRAWINGS IN A MECHANICAL VENTILATION SYSTEM SERVED BY EE.2. IF THE EXISTING DUCTWORK IS UNDERSIZED, CONTRACTOR TO REPLACE WITH NEW DUCTWORK SIZED SUFFICIENTLY TO MAINTAIN DESIGNED AIRFLOW AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM.
- REPLACE EXISTING EXHAUST GRILLE AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM ON SOUTH SIDE OF 1932 BUILDING. CONTRACTOR TO VERIFY CONDITION OF EXISTING DUCTWORK AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY EXISTING DUCTWORK IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW AT AMOUNT SPECIFIED ON DRAWINGS IN A MECHANICAL VENTILATION SYSTEM SERVED BY EE.3. IF THE EXISTING DUCTWORK IS UNDERSIZED, CONTRACTOR TO REPLACE WITH NEW DUCTWORK SIZED SUFFICIENTLY TO MAINTAIN DESIGNED AIRFLOW AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM.
- 20"x18" EA DUCT DOWN THROUGH CHASE. INSTALL FIRE DAMPER IN DUCTWORK AT LID OF CHASE.
- 26"x20" OA DUCT DOWN THROUGH CHASE. INSTALL FIRE DAMPER IN DUCTWORK AT LID OF CHASE.
- EXISTING LOUVER TO REMAIN. CONTRACTOR TO VERIFY CONDITION AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY LOUVER IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW FOR EQUIPMENT.
- 8"x6" OA DUCT DOWN TO SECOND FLOOR PLAN.
- REWORK OR RELOCATE EXISTING EQUIPMENT, PIPING, AND OTHER ITEMS ALONG WALL TO ACCOMMODATE INSTALLATION OF NEW ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- REPLACE DAMPER ON EXISTING LOUVER WITH GRAVITY RELIEF DAMPER FOR BUILDING PRESSURE RELIEF. SET GRAVITY DAMPER TO 0.05 IN W.G.



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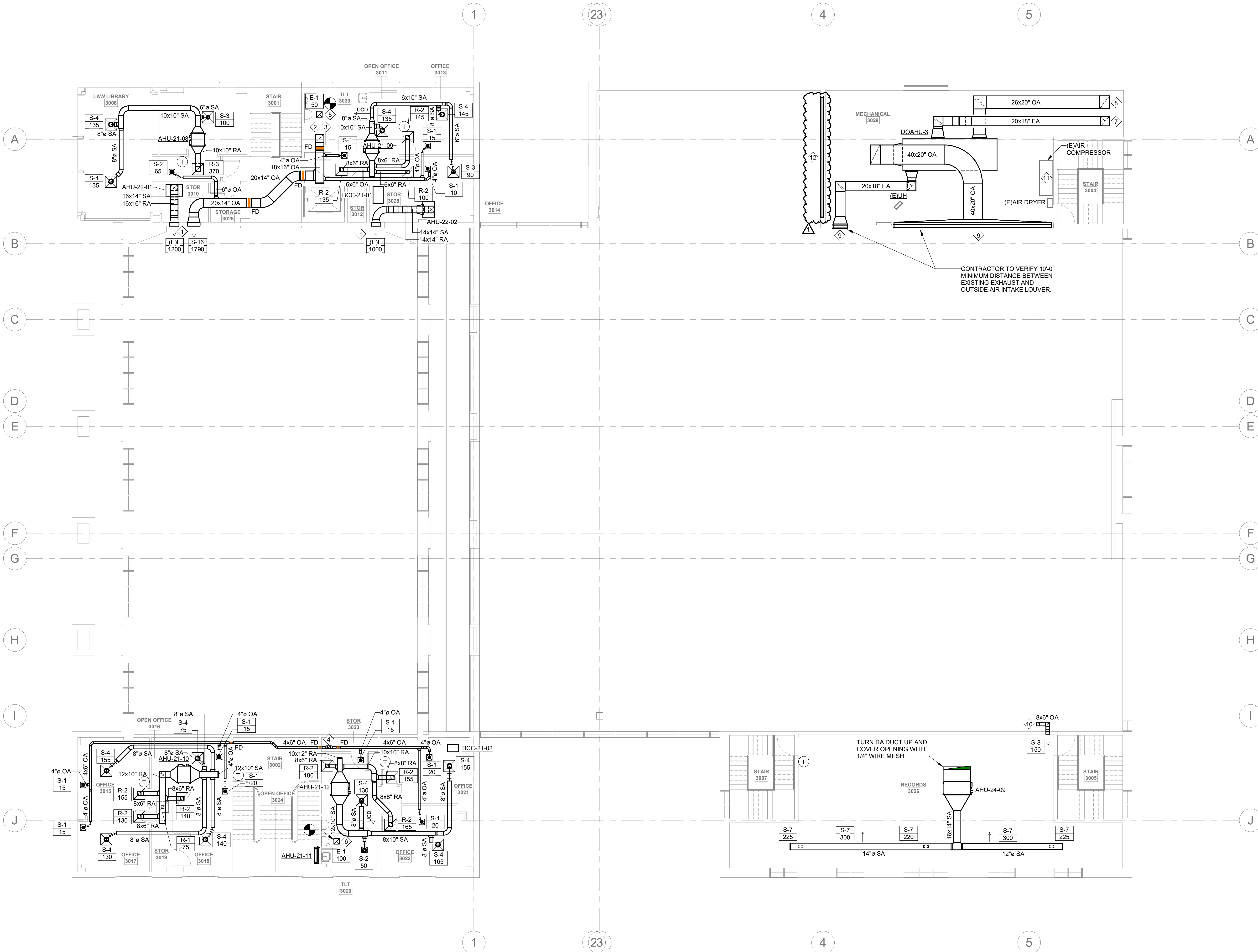
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DRAWING NAME
MECHANICAL 3RD FLOOR AND MEZZANINE PLAN

DRAWING NO.
M1.3

Drawn By: EBZ Checked By: MAR



1 3RD FLOOR MECHANICAL PLAN
1/8" = 1'-0"



GENERAL NOTES:

- FOR ALL THERMOSTATS INSTALL NEW PROGRAMMABLE AUTO-CHANGOVER THERMOSTAT TO CONTROL HVAC UNIT. MOUNT AT 48" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT. SHOULD THERMOSTAT REQUIRE INSTALLATION ON EXTERIOR WALL, PROVIDE INSULATED BACKING PLATE TO PREVENT FALSE READINGS.
- ROUTE AIR HANDLER CONDENSATE TO NEAREST APPROVED PLACE OF DISPOSAL.

PLAN NOTES:

- CONTRACTOR TO CAP AND SEAL EXISTING BOILER FLUE FOR USE AS DUCT CHASE. CONTRACTOR TO CLEAN AND VERIFY CONDITION OF FLUE. REPAIR AS NECESSARY.
- EXHAUST FAN TO BE INSTALLED AT EXISTING RESTROOM GRAVITY VENT LOCATION AND CONNECT TO EXISTING EXHAUST SYSTEM. CONTRACTOR TO VERIFY CONDITION OF EXISTING EXHAUST AIR DUCTWORK AND REPAIR OR REPLACE AS NECESSARY. CONTRACTOR TO VERIFY EXISTING DUCTWORK IS SIZED SUFFICIENTLY TO MAINTAIN PROPER AIRFLOW AT AMOUNT SPECIFIED ON FAN SCHEDULE. IF THE EXISTING DUCTWORK IS UNDERSIZED, CONTRACTOR TO REPLACE WITH NEW DUCTWORK SIZED SUFFICIENTLY TO MAINTAIN DESIGNED AIRFLOW AND CONNECT BACK INTO EXISTING EXHAUST SYSTEM.
- PROVIDE ROOF RAIL SYSTEM TO MOUNT CONDENSING UNITS AND SPREAD OUT WEIGHT ON EXISTING ROOF. REFER TO DETAIL 6 ON SHEET M0.6 FOR ADDITIONAL INFORMATION.

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KINSTON, NC 28501

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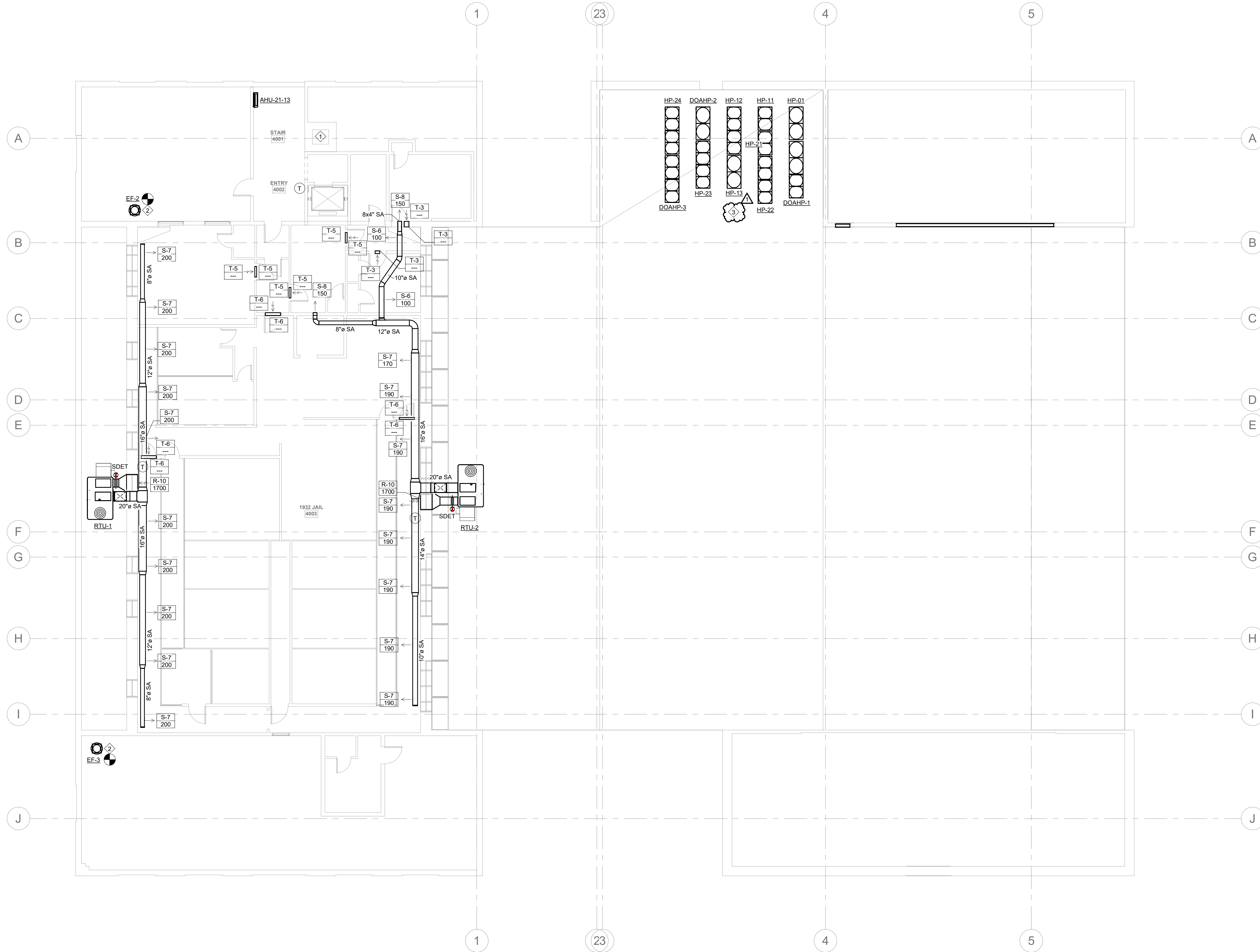
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DRAWING NAME
MECHANICAL 4TH FLOOR AND ROOF PLAN

DRAWING NO.
M1.4

Drawn By: EBZ Checked By: MAR



1 4TH FLOOR MECHANICAL PLAN
M1.4
1/8" = 1'-0"

GENERAL PHASING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL PLANS FOR PHASING THE WORK. THE CONTRACTOR SHALL USE THESE PHASING PLANS TO DEVELOP A PHASED PLAN OF WORK, WORK FLOW AND ANY NECESSARY SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER.
2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 2 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (E/AHU-2-1982 AND EXHAUST FAN (E/FB-1-1982 IN MECHANICAL ROOM (0143) SERVING THE BASEMENT.
2. DEMOLISH AND REMOVE (E/CH-2-1982, (E/CH-1-1982 CAN CARRY THE LOAD WITH (E/AHU-2-1982 AND (E/AHU-3-1982 REMOVED).
3. INSTALL DOAHU-1-2022, HP-01-2022, HP-11-2022, HP-21-2022, AND HP-22-2022 ON THE ROOF.
4. INSTALL NEW DOAHU-1-2022 TO SERVE THE BASEMENT AND THE 1932 WING IN MECHANICAL ROOM (0143).
5. INSTALL NEW OA DUCTS SERVING THE BASEMENT AND UP IN SHAFTS TO SERVE UPPER FLOORS.
6. INSTALL NEW VRF SYSTEM SERVING THE 1932 BUILDING. NOTE THAT THIS WORK MUST BE COMPLETED ON NIGHTS, WEEKENDS, AND HOLIDAYS. CONTRACTORS WILL NOT BE ALLOWED IN THE OCCUPIED SPACE AND SPACE MUST HAVE FULL HVAC SERVICE MONDAY THROUGH FRIDAY FROM 8:00AM TILL 6:00PM. IF ADDITIONAL DOWNTIME IS REQUIRED FOR THE SUPERIOR CRIMINAL COURT, THEN THE CONTRACTOR MUST COORDINATE THE SHUTDOWN TO COINCIDE WITH THE COURT SCHEDULE THROUGH THE OWNER.
7. DEMOLISH AND REMOVE EXISTING ROOFTOP UNITS SERVING THE 1932 JAIL.
8. INSTALL NEW RTU-1-2022 AND RTU-2-2022 AT EXISTING ROOFTOP UNIT LOCATIONS.

9. THE SHERIFF, DISTRICT ATTORNEY, AND GUARDIAN AD LITEM OFFICES SHALL BE RELOCATED TO AN AVAILABLE SPACE DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH EACH OFFICE PRIOR TO THE START OF CONSTRUCTION IN THEIR AREA.



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NC Firm License # C-0819

PROJECT NUMBER: 22175-03

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130 S QUEEN ST,
KINSTON, NC 28501

REVISIONS

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1	08/23/2023	ADDENDUM 1

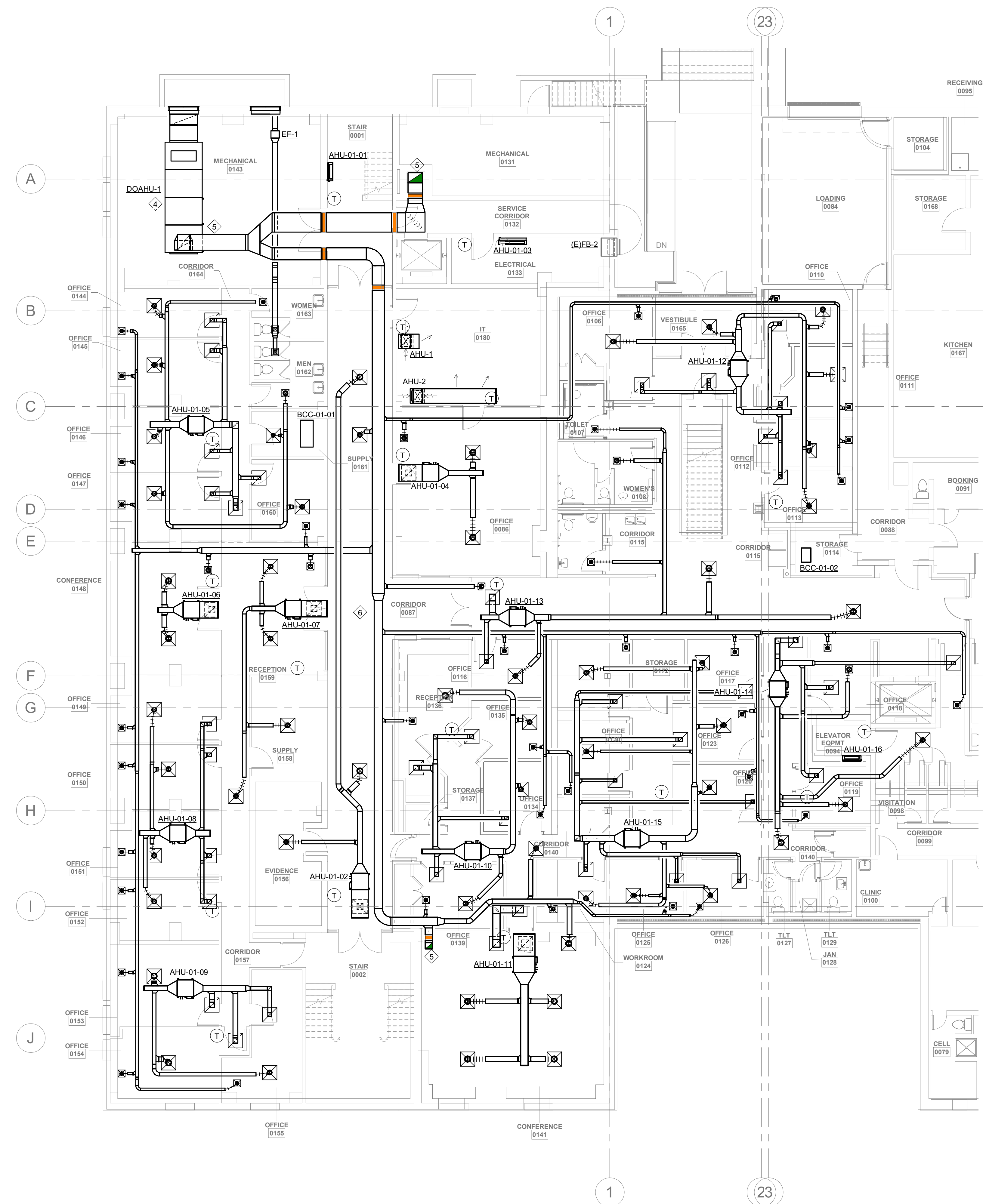
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DRAWING NAME
PHASE 2 MECHANICAL BASEMENT PLANS

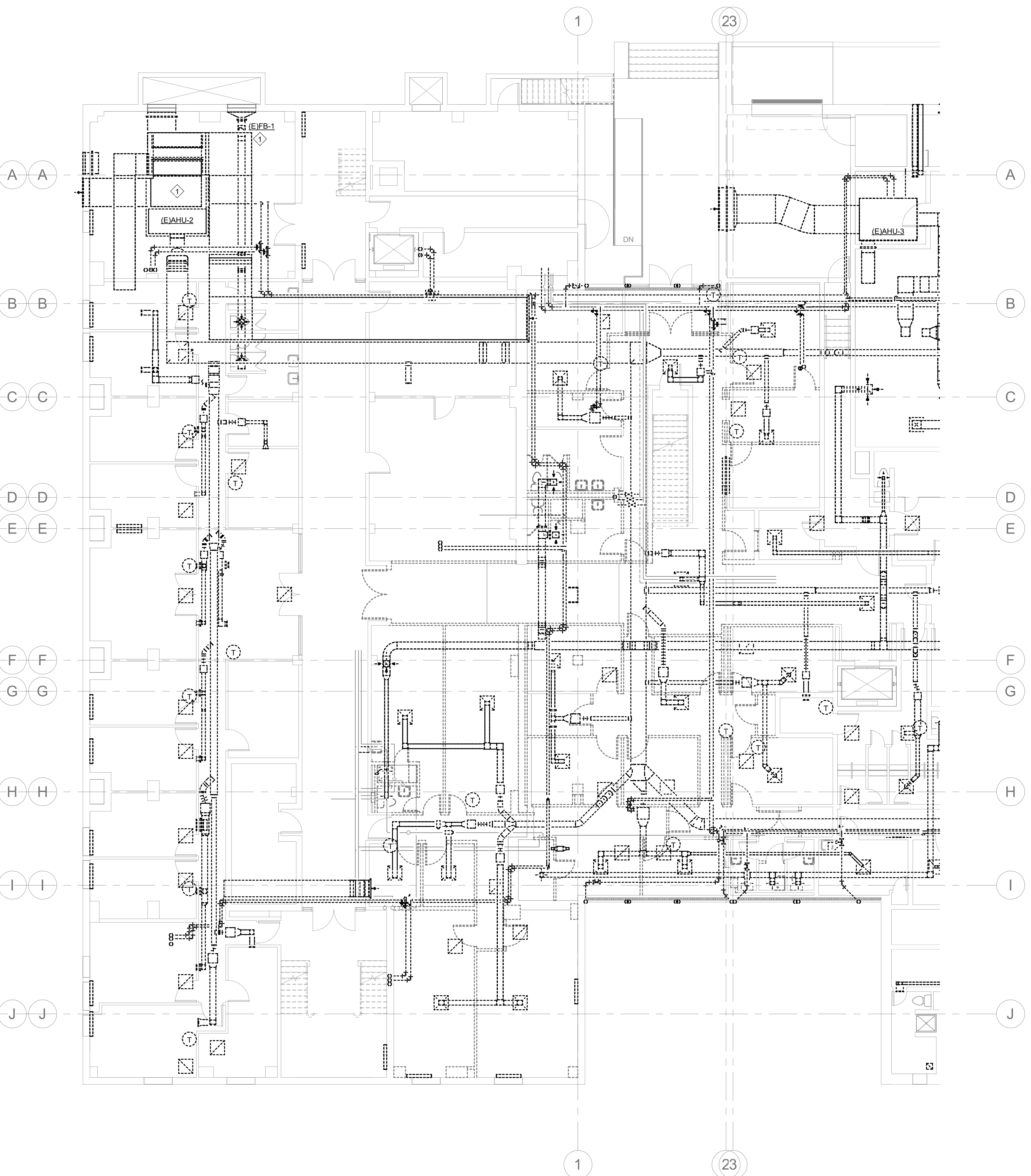
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M-PH2.0

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1 PHASE 2 BASEMENT MECHANICAL PLAN
M-PH2.0 1/8" = 1'-0"



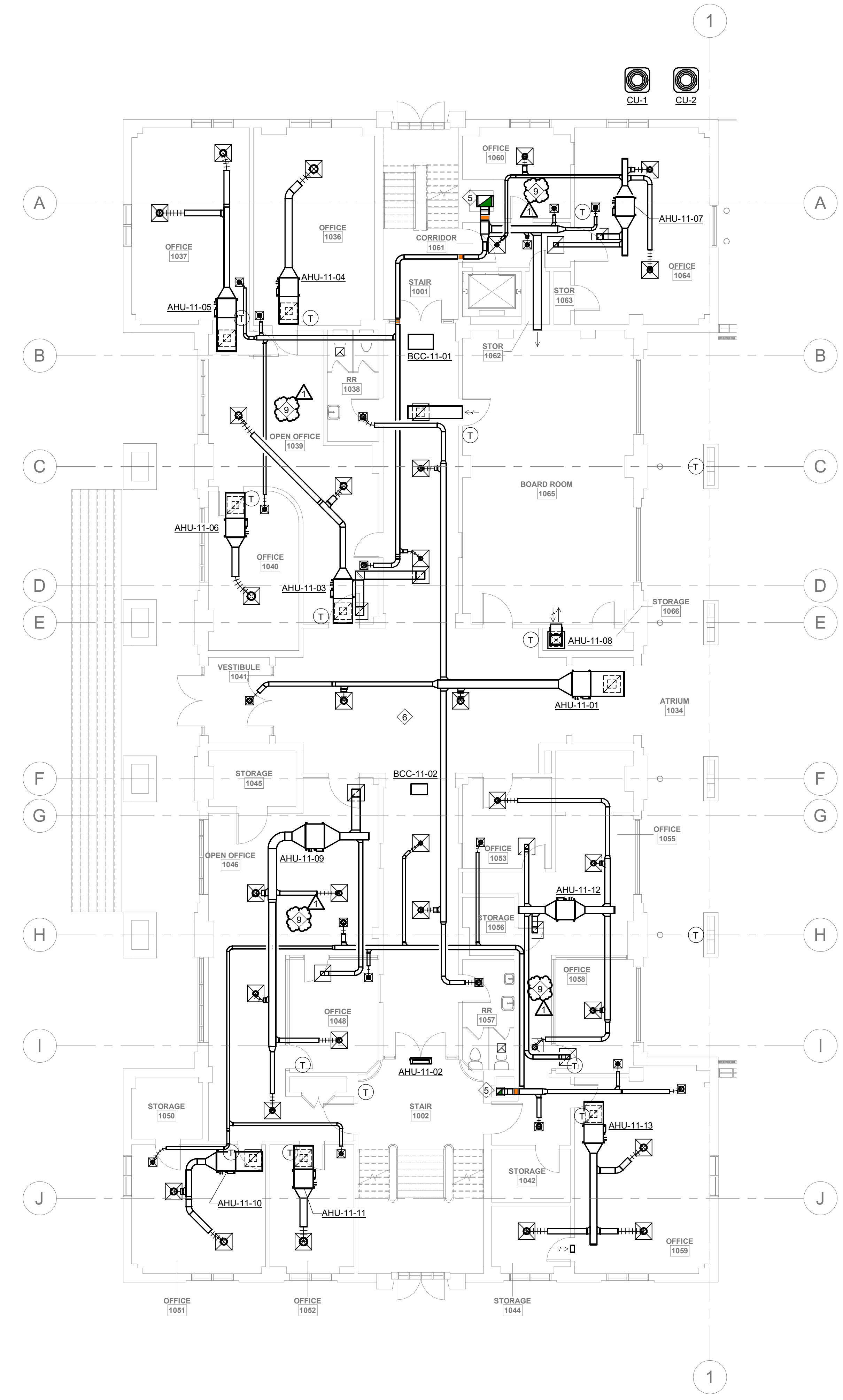
2 PHASE 2 BASEMENT DEMO PLAN
M-PH2.0 1/8" = 1'-0"

GENERAL PHASING NOTES:

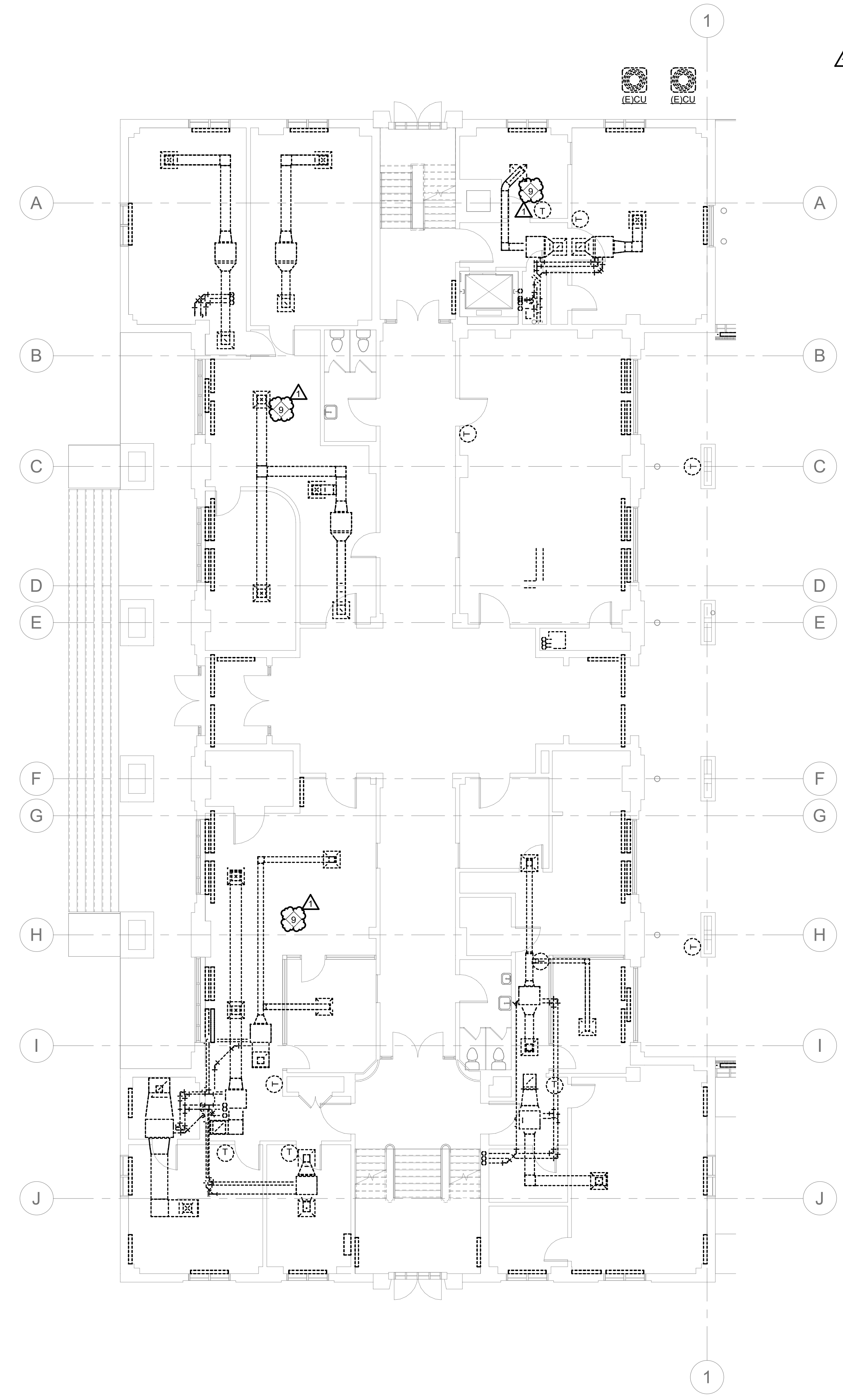
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2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 2 PLAN NOTES:

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2. DEMOLISH AND REMOVE (E)CH-2-1982. (E)CH-1-1982 CAN CARRY THE LOAD WITH (E)AHU-2-1982 AND (E)AHU-3-1982 REMOVED).
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4. INSTALL NEW DOAHLU-1-2022 TO SERVE THE BASEMENT AND THE 1932 WING IN MECHANICAL ROOM (0143).
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7. DEMOLISH AND REMOVE EXISTING ROOFTOP UNITS SERVING THE 1932 JAIL.
8. INSTALL NEW RTU-1-2022 AND RTU-2-2022 AT EXISTING ROOFTOP UNIT LOCATIONS.
9. THE SHERIFF, DISTRICT ATTORNEY, AND GUARDIAN AD LITEM OFFICES SHALL BE RELOCATED TO AN AVAILABLE SPACE DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH EACH OFFICE PRIOR TO THE START OF CONSTRUCTION IN THEIR AREA.



1 PHASE 2 1ST FLOOR MECHANICAL PLAN
M-PH2.1 1/8" = 1'-0"



2 PHASE 2 1ST FLOOR DEMO PLAN
M-PH2.1 1/8" = 1'-0"



SEALS

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DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER: 22175-03
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PROJECT INFORMATION:

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130 S QUEEN ST,
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DRAWING NAME
PHASE 2 MECHANICAL 1ST FLOOR PLANS

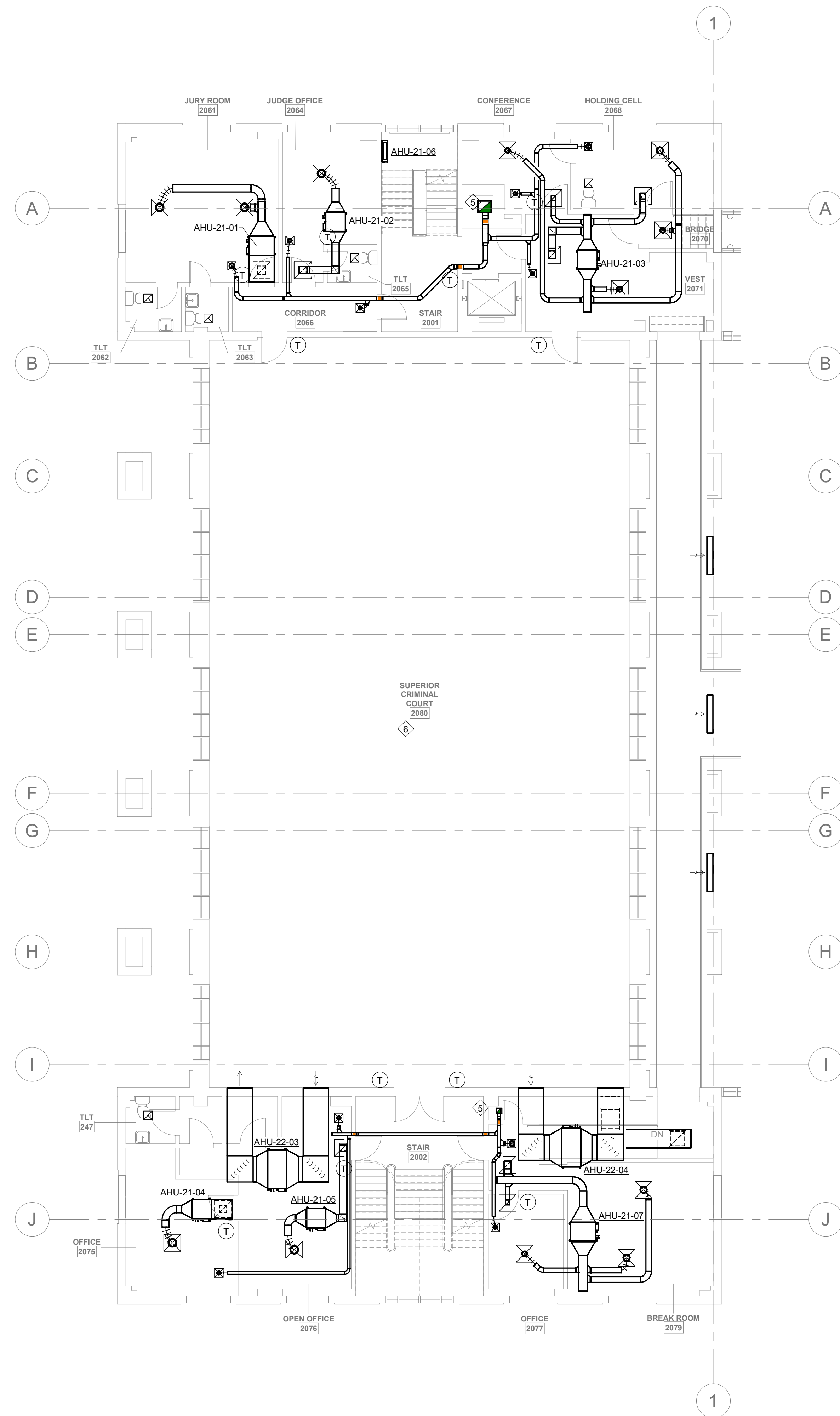
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M-PH2.1
Drawn By: EBZ Checked By: MAR

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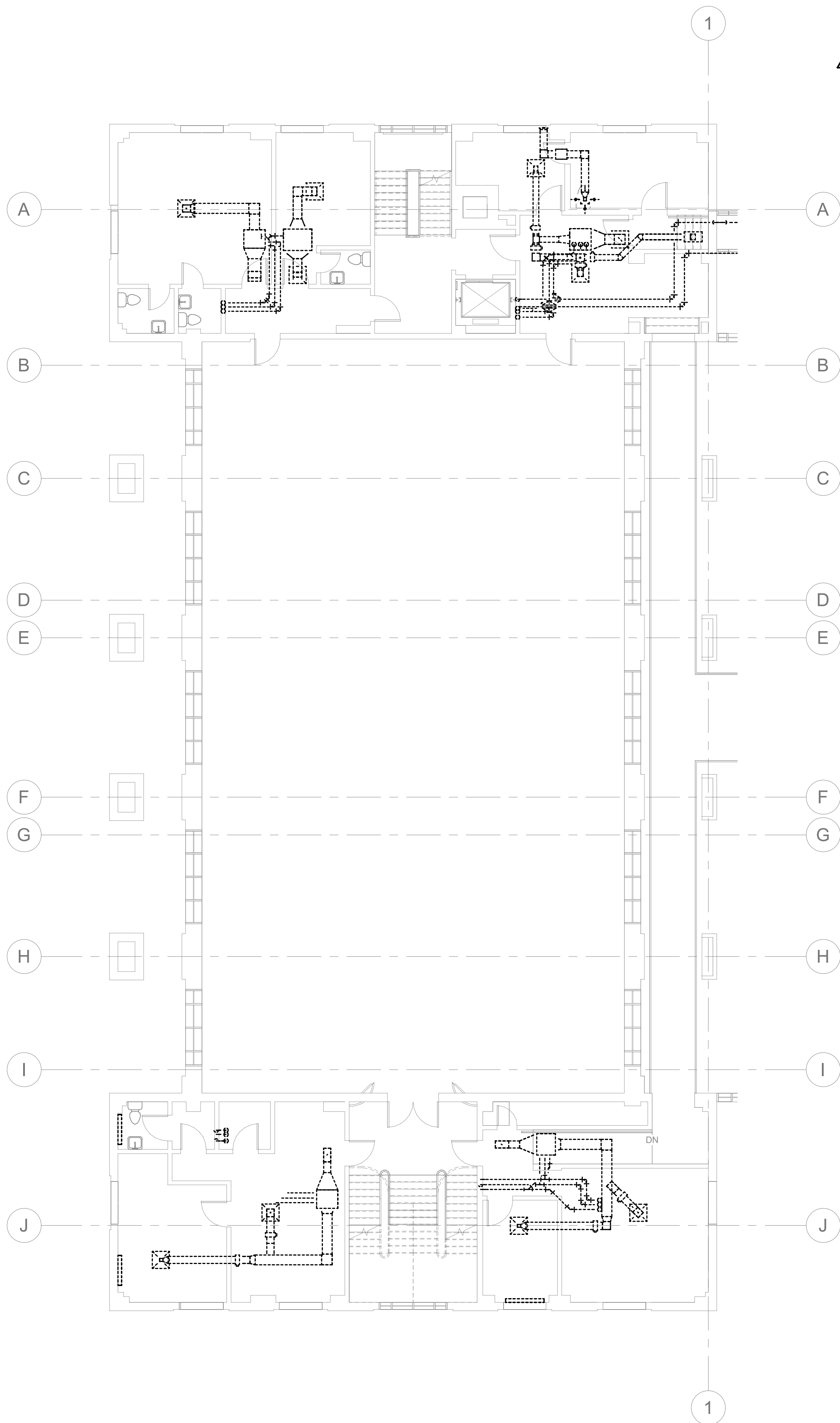
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1 PHASE 2 2ND FLOOR MECHANICAL PLAN
M-PH2.2 1/8" = 1'-0"



2 PHASE 2 2ND FLOOR DEMO PLAN
M-PH2.2 1/8" = 1'-0"

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DRAWING NAME
**PHASE 2 MECHANICAL
2ND FLOOR PLANS**

DRAWING NO.
M-PH2.2

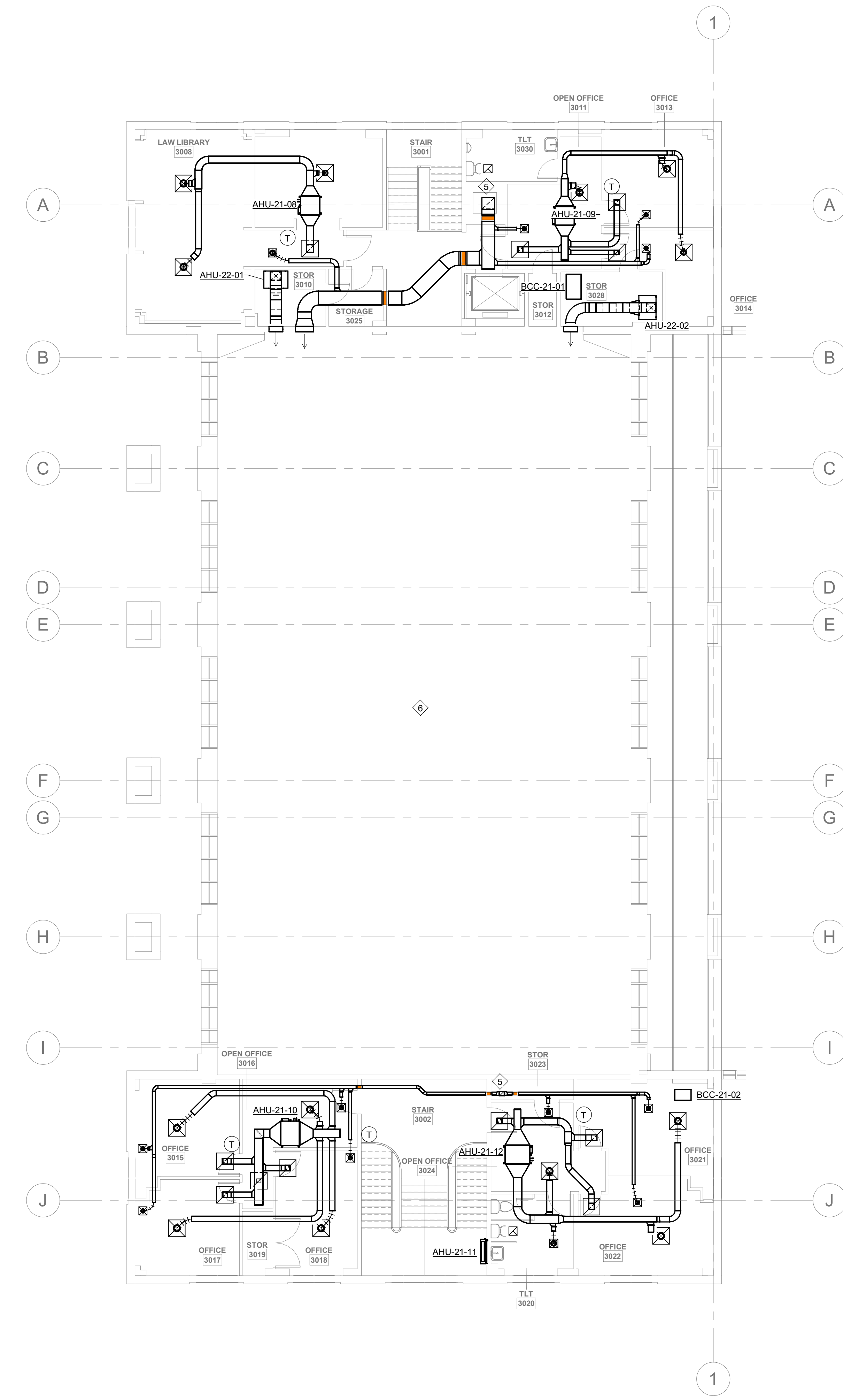
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GENERAL PHASING NOTES:

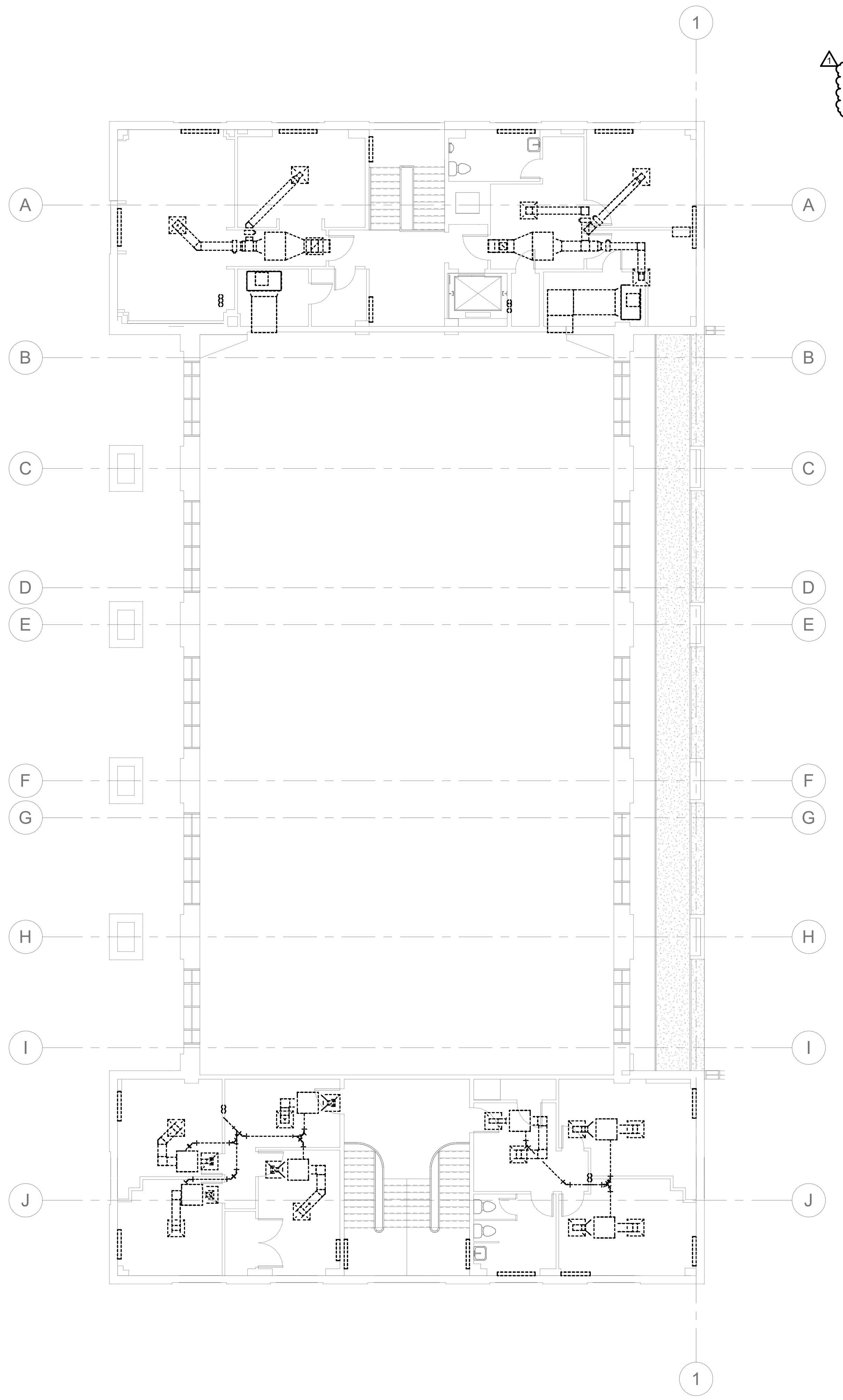
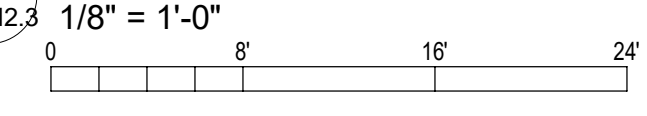
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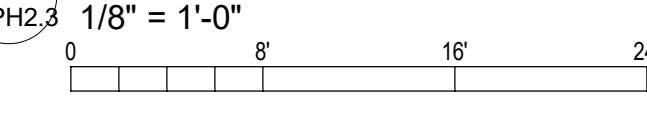
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2. DEMOLISH AND REMOVE (EJCH-2-1982, (EJCH-1-1982 CAN CARRY THE LOAD WITH (E)AHU-2-1982 AND (E)AHU-3-1982 REMOVED).
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1 PHASE 2 3RD FLOOR MECHANICAL PLAN
M-PH2.3 1/8" = 1'-0"



2 PHASE 2 3RD FLOOR DEMO PLAN
M-PH2.3 1/8" = 1'-0"



SEALS

DEVITA

ATLANTA • CHARLOTTE • GREENVILLE • RICHMOND
877.4.DEVITA • corp@devitainc.com

DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER: 22175-03
CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

130 S QUEEN ST,
KINSTON, NC 28501

REVISIONS		
NO.	DATE	DESCRIPTION
1	08/23/2023	ADDENDUM 1

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DRAWING NAME
PHASE 2 MECHANICAL 3RD FLOOR AND MEZZANINE PLANS

DRAWING NO.
M-PH2.3
Drawn By: EBZ Checked By: MAR

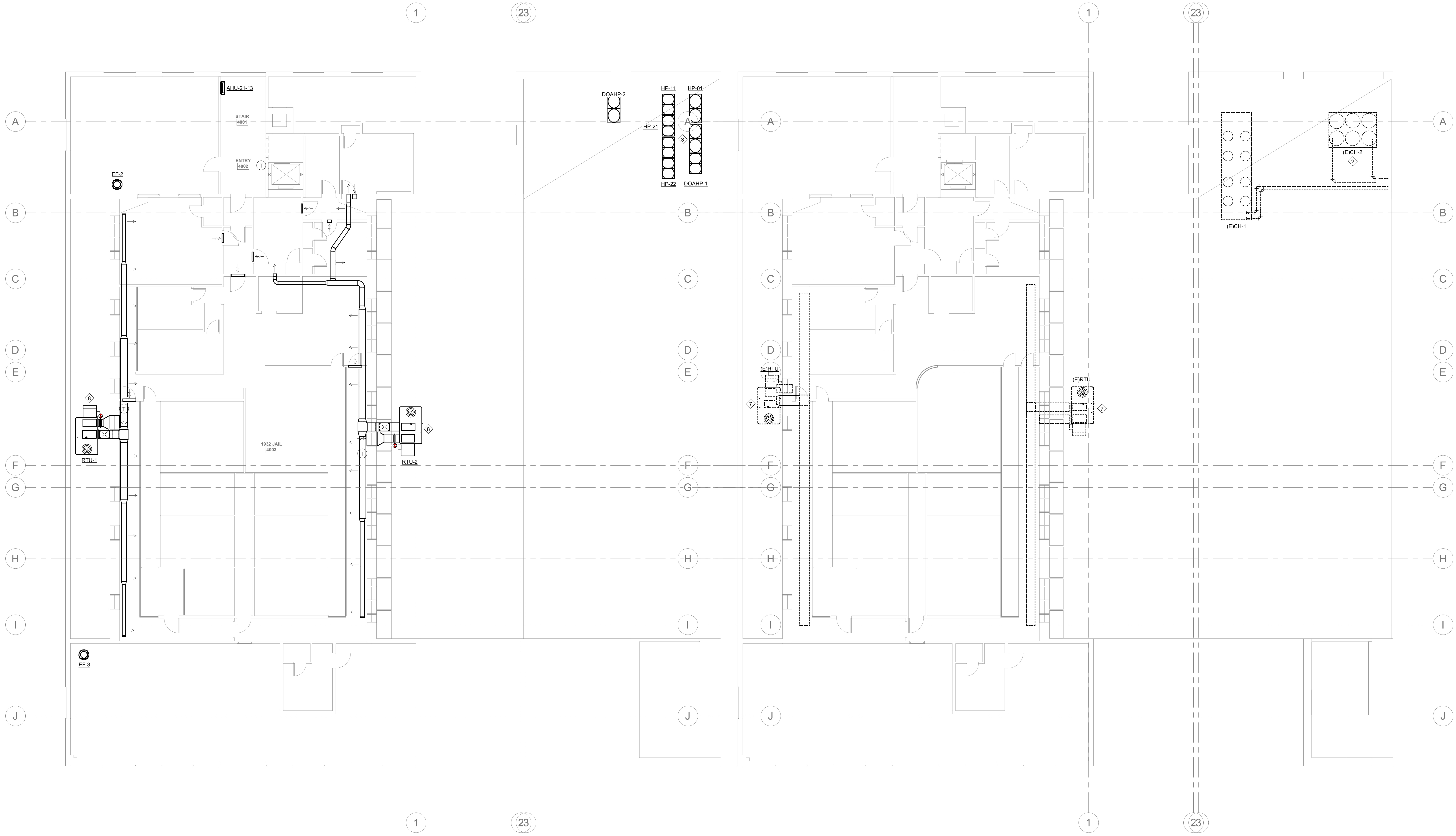
GENERAL PHASING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL PLANS FOR PHASING THE WORK. THE CONTRACTOR SHALL USE THESE PHASING PLANS TO DEVELOP A PHASED PLAN OF WORK, WORK FLOW AND ANY NECESSARY SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER.
2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 2 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (EJAHU-2-1982 AND EXHAUST FAN (EJFB-1-1982 IN MECHANICAL ROOM (0143) SERVING THE BASEMENT.
2. DEMOLISH AND REMOVE (EJCH-2-1982. (EJCH-1-1982 CAN CARRY THE LOAD WITH (EJAHU-2-1982 AND (EJAHU-3-1982 REMOVED).
3. INSTALL DOAHP-1-2022, HP-01-2022, HP-11-2022, HP-21-2022, AND HP-22-2022 ON THE ROOF.
4. INSTALL NEW DOAHLU-1-2022 TO SERVE THE BASEMENT AND THE 1932 WING IN MECHANICAL ROOM (0143).
5. INSTALL NEW OA DUCTS SERVING THE BASEMENT AND UP IN SHAFTS TO SERVE UPPER FLOORS.
6. INSTALL NEW VRF SYSTEM SERVING THE 1932 BUILDING. NOTE THAT THIS WORK MUST BE COMPLETED ON NIGHTS, WEEKENDS, AND HOLIDAYS. CONTRACTORS WILL NOT BE ALLOWED IN THE OCCUPIED SPACE AND SPACE MUST HAVE FULL HVAC SERVICE MONDAY THROUGH FRIDAY FROM 8:00AM TILL 6:00PM. IF ADDITIONAL DOWNTIME IS REQUIRED FOR THE SUPERIOR CRIMINAL COURT, THEN THE CONTRACTOR MUST COORDINATE THE SHUTDOWN TO COINCIDE WITH THE COURT SCHEDULE THROUGH THE OWNER.
7. DEMOLISH AND REMOVE EXISTING ROOFTOP UNITS SERVING THE 1932 JAIL.
8. INSTALL NEW RTU-1-2022 AND RTU-2-2022 AT EXISTING ROOFTOP UNIT LOCATIONS.
9. THE SHERIFF, DISTRICT ATTORNEY, AND GUARDIAN AD LITEM OFFICES SHALL BE RELOCATED TO AN AVAILABLE SPACE DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH EACH OFFICE PRIOR TO THE START OF CONSTRUCTION IN THEIR AREA.

9. THE SHERIFF, DISTRICT ATTORNEY, AND GUARDIAN AD LITEM OFFICES SHALL BE RELOCATED TO AN AVAILABLE SPACE DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH EACH OFFICE PRIOR TO THE START OF CONSTRUCTION IN THEIR AREA.



1 PHASE 2 4TH FLOOR AND ROOF MECHANICAL PLAN
M-PH2.4 1/8" = 1'-0"

2 PHASE 2 4TH FLOOR AND ROOF DEMO PLAN
M-PH2.4 1/8" = 1'-0"

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DRAWING NAME
PHASE 2 MECHANICAL 4TH FLOOR AND ROOF PLANS

DRAWING NO.
M-PH2.4

Drawn By: EBZ Checked By: MAR

GENERAL PHASING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL PLANS FOR PHASING THE WORK. THE CONTRACTOR SHALL USE THESE PHASING PLANS TO DEVELOP A PHASED PLAN OF WORK, WORK FLOW AND ANY NECESSARY SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER.
2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 3 PLAN NOTES:

1. INSTALL HP-12-2022, HP-13-2022, HP-23-2022, AND HP-24-2022 ON THE ROOF. WILL REQUIRE NEW SUPPORT STRUCTURE.
2. INSTALL NEW VRF SYSTEM SERVING THE 1982 BUILDING. NOTE THAT THIS WORK MUST BE COMPLETED ON NIGHTS, WEEKENDS, AND HOLIDAYS. CONTRACTORS WILL NOT BE ALLOWED IN THE OCCUPIED SPACE AND SPACE MUST HAVE FULL HVAC SERVICE MONDAY THROUGH FRIDAY FROM 8:00AM TILL 6:00PM. IF ADDITIONAL DOWNTIME IS REQUIRED FOR THE THREE COURT ROOMS, THEN THE CONTRACTOR MUST COORDINATE THE SHUTDOWN TO COINCIDE WITH THE COURT SCHEDULE THROUGH THE OWNER.
3. THE CLERK OF COURT OFFICES SHALL BE RELOCATED TO AN AVAILABLE SPACE DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH EACH OFFICE PRIOR TO THE START OF CONSTRUCTION IN THEIR AREA.

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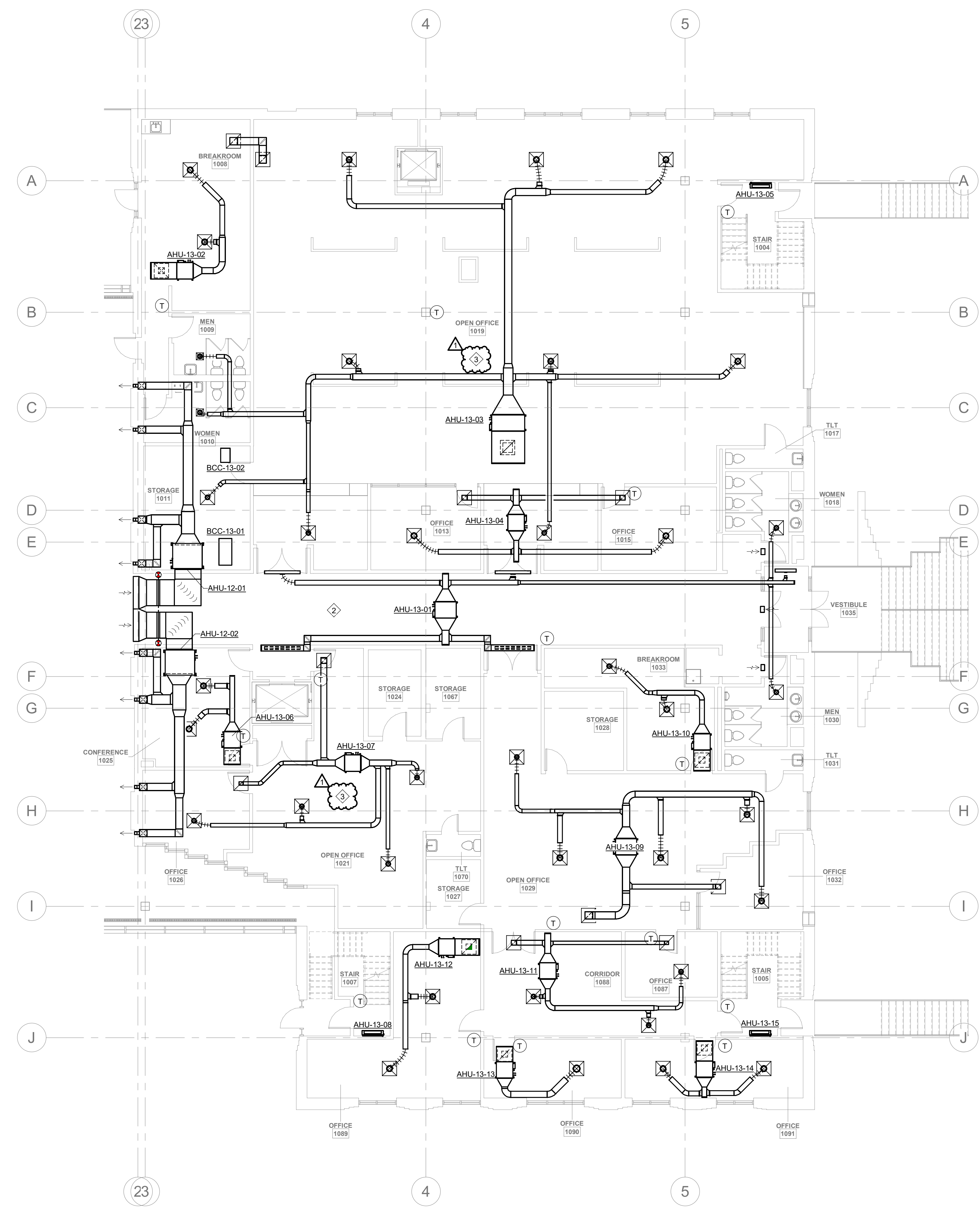
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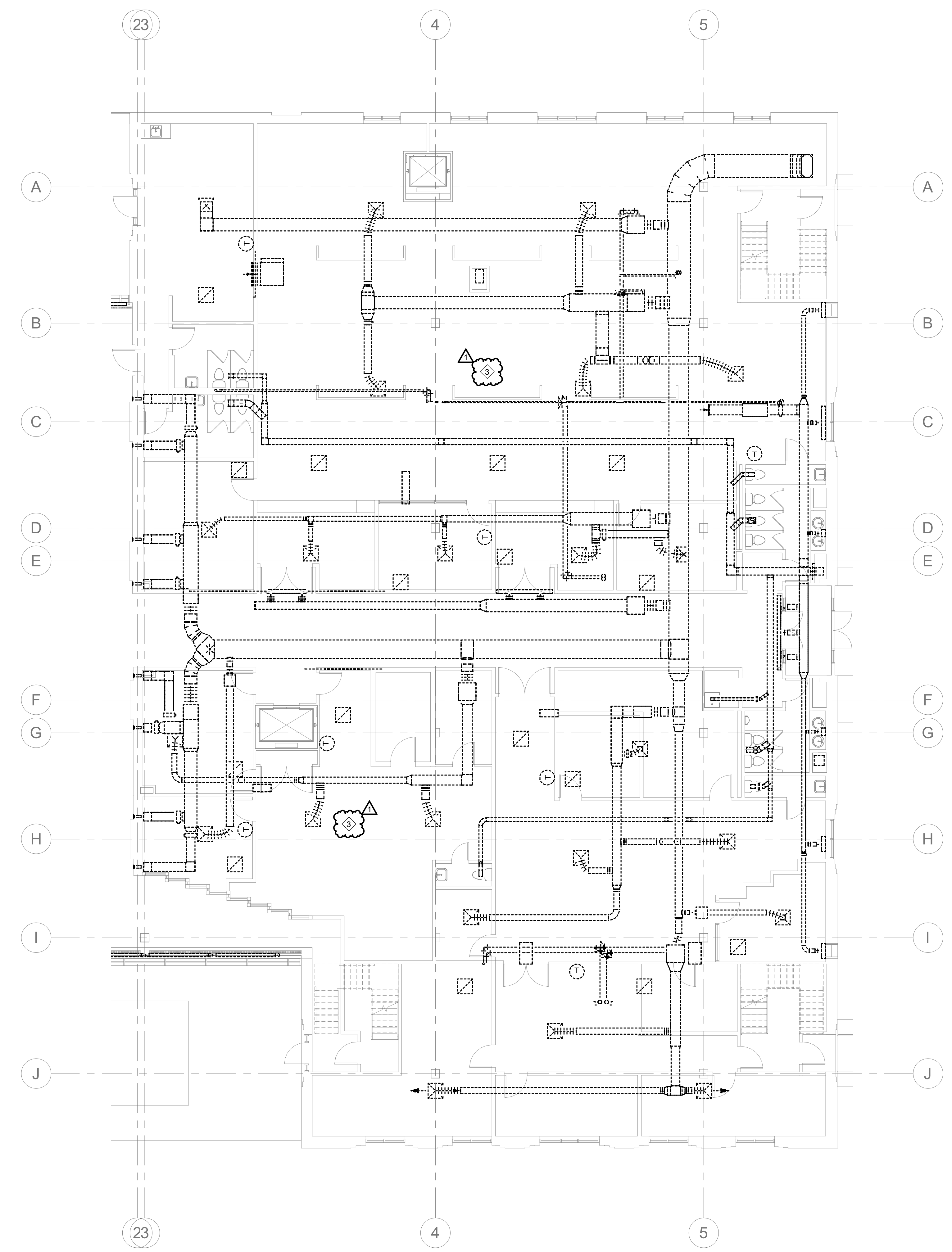
DRAWING NAME
**PHASE 3 MECHANICAL
1ST FLOOR PLANS**

DRAWING NO.
M-PH3.1

Drawn By: EBZ Checked By: MAR



1 PHASE 3 1ST FLOOR MECHANICAL PLAN
M-PH3.1 1/8" = 1'-0"
0 8 16 24



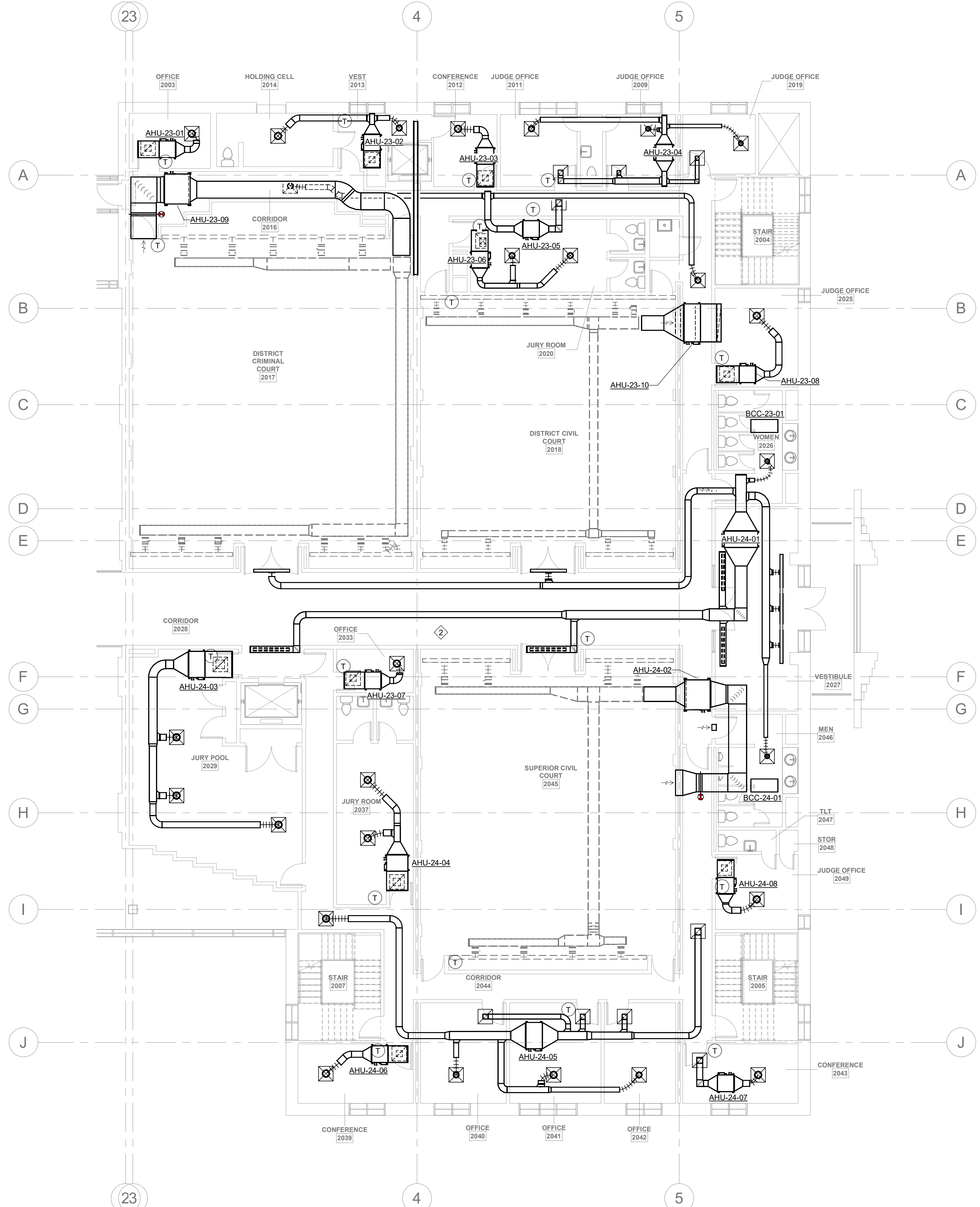
2 PHASE 3 1ST FLOOR DEMO PLAN
M-PH3.1 1/8" = 1'-0"
0 8 16 24

GENERAL PHASING NOTES:

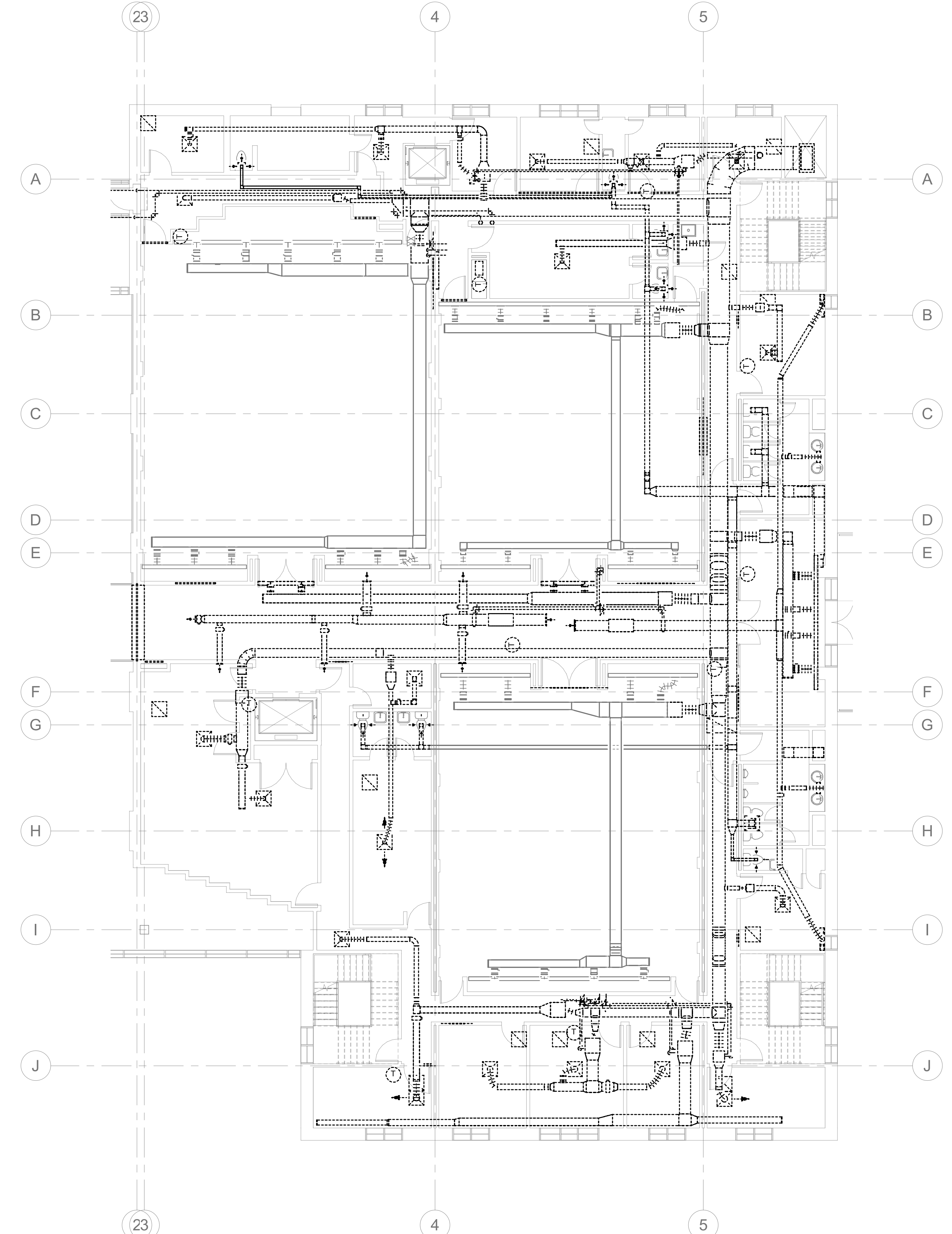
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1 PHASE 3 2ND FLOOR MECHANICAL PLAN
M-PH3.2 1/8" = 1'-0"



2 PHASE 3 2ND FLOOR DEMO PLAN
M-PH3.2 1/8" = 1'-0"

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DRAWING NAME
PHASE 3 MECHANICAL 2ND FLOOR PLANS

DRAWING NO.
M-PH3.2

Drawn By: EBZ Checked By: MAR

GENERAL PHASING NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL PLANS FOR PHASING THE WORK. THE CONTRACTOR SHALL USE THESE PHASING PLANS TO DEVELOP A PHASED PLAN OF WORK, WORK FLOW AND ANY NECESSARY SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER.
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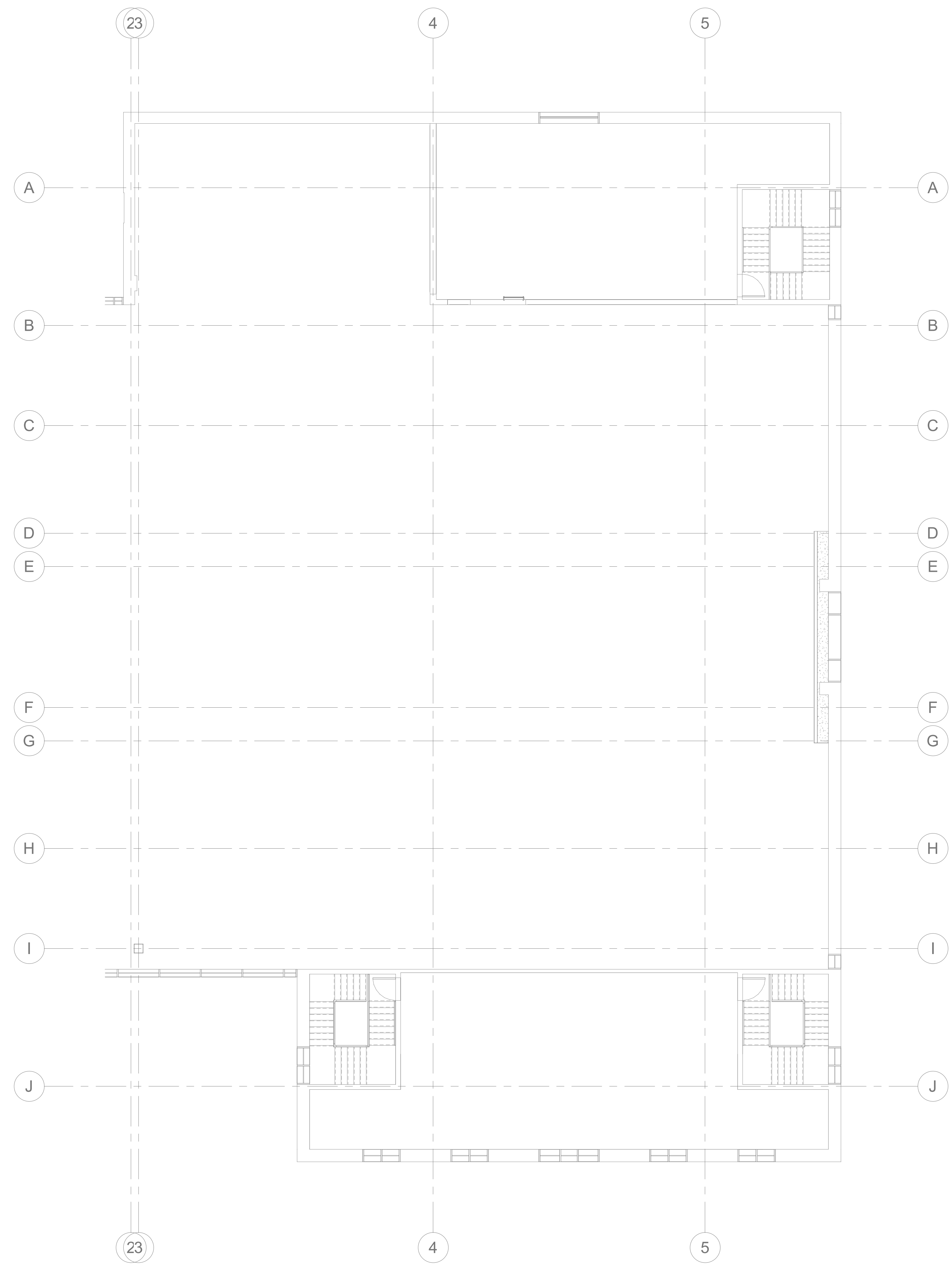
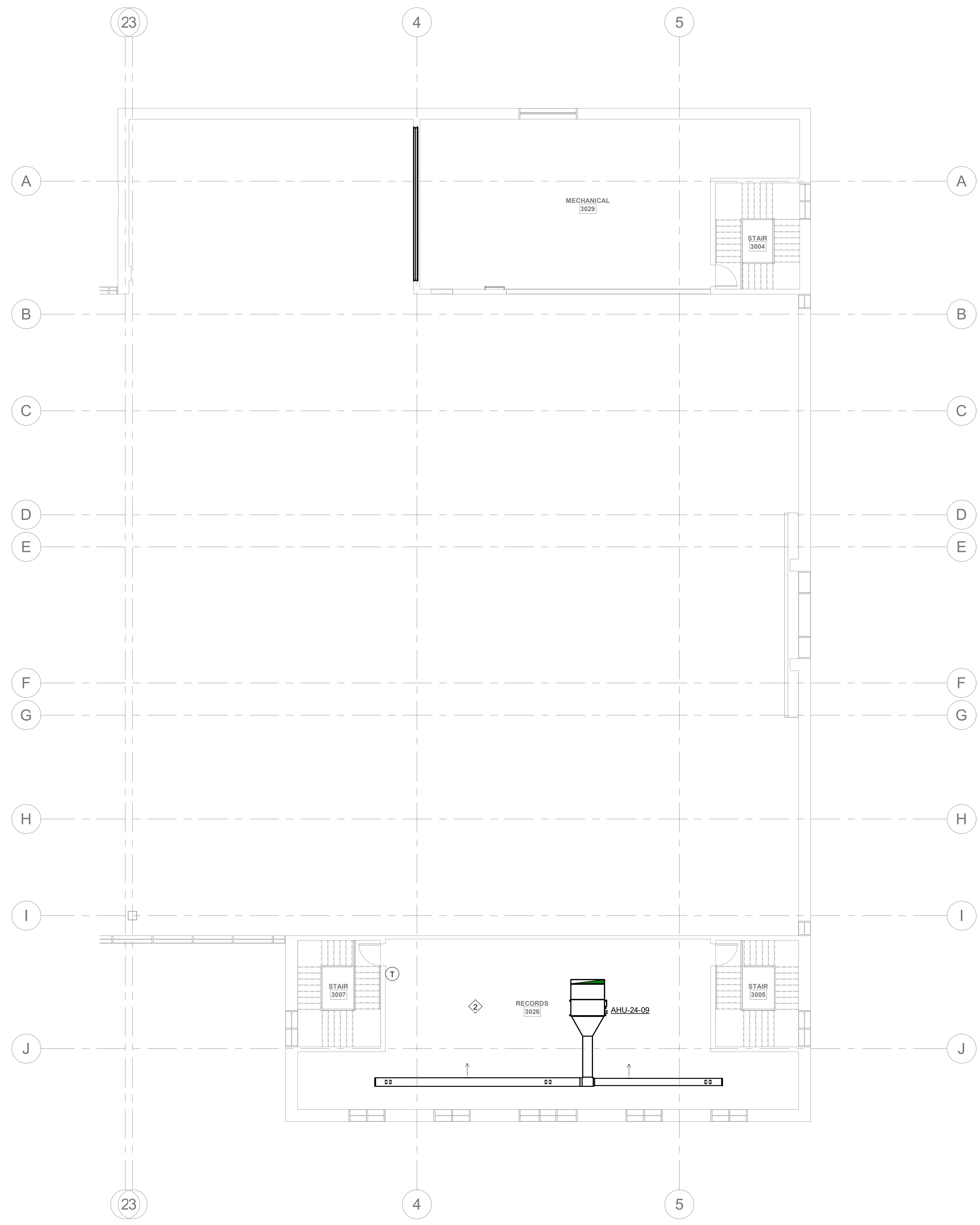
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DRAWING NAME
**PHASE 3 MECHANICAL
3RD FLOOR AND
MEZZANINE PLANS**

DRAWING NO.
M-PH3.3
Drawn By: EBZ Checked By: MAR



1 PHASE 3 3RD FLOOR MECHANICAL PLAN
M-PH3.3 1/8" = 1'-0"
0 8 16 24

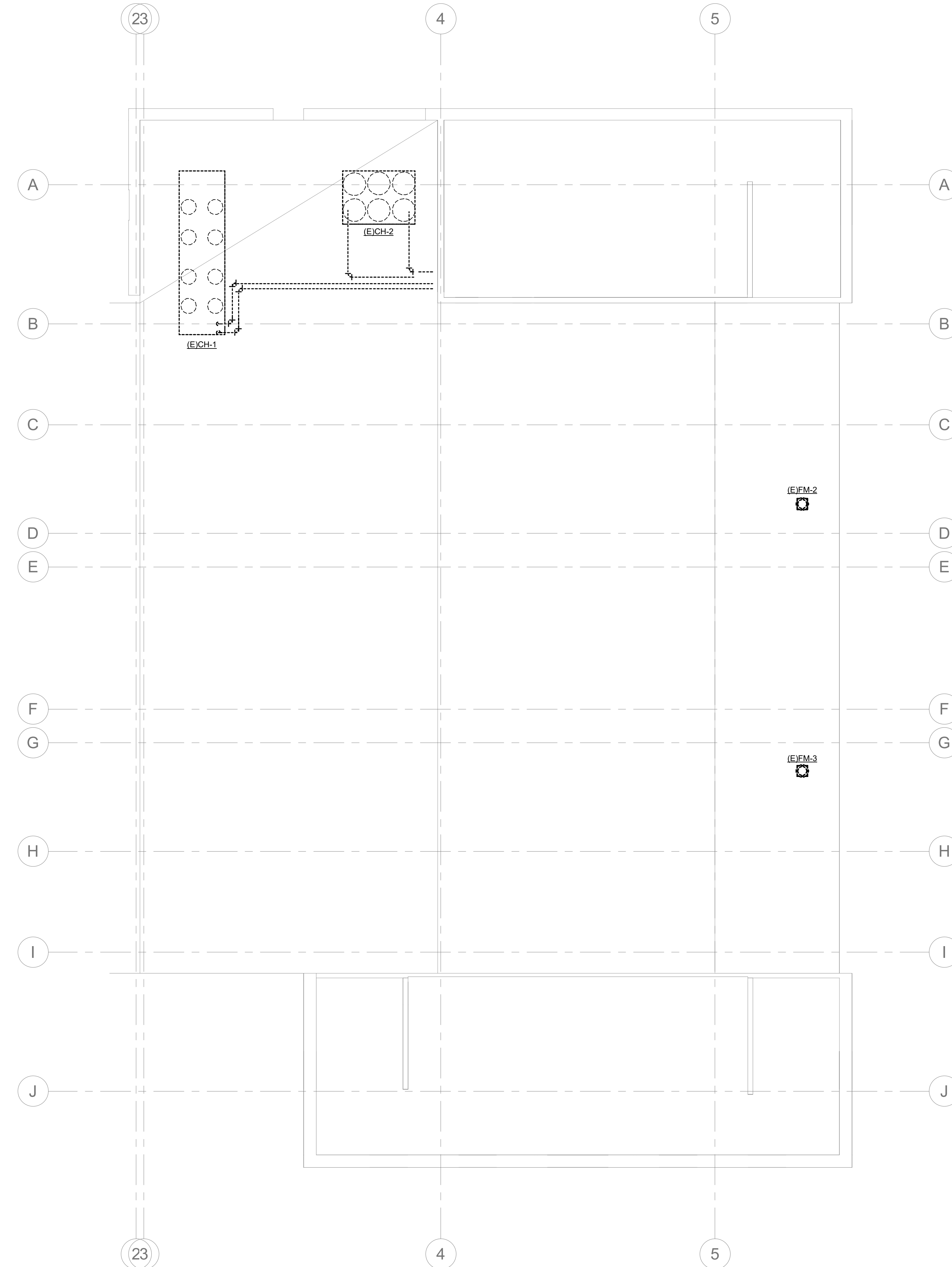
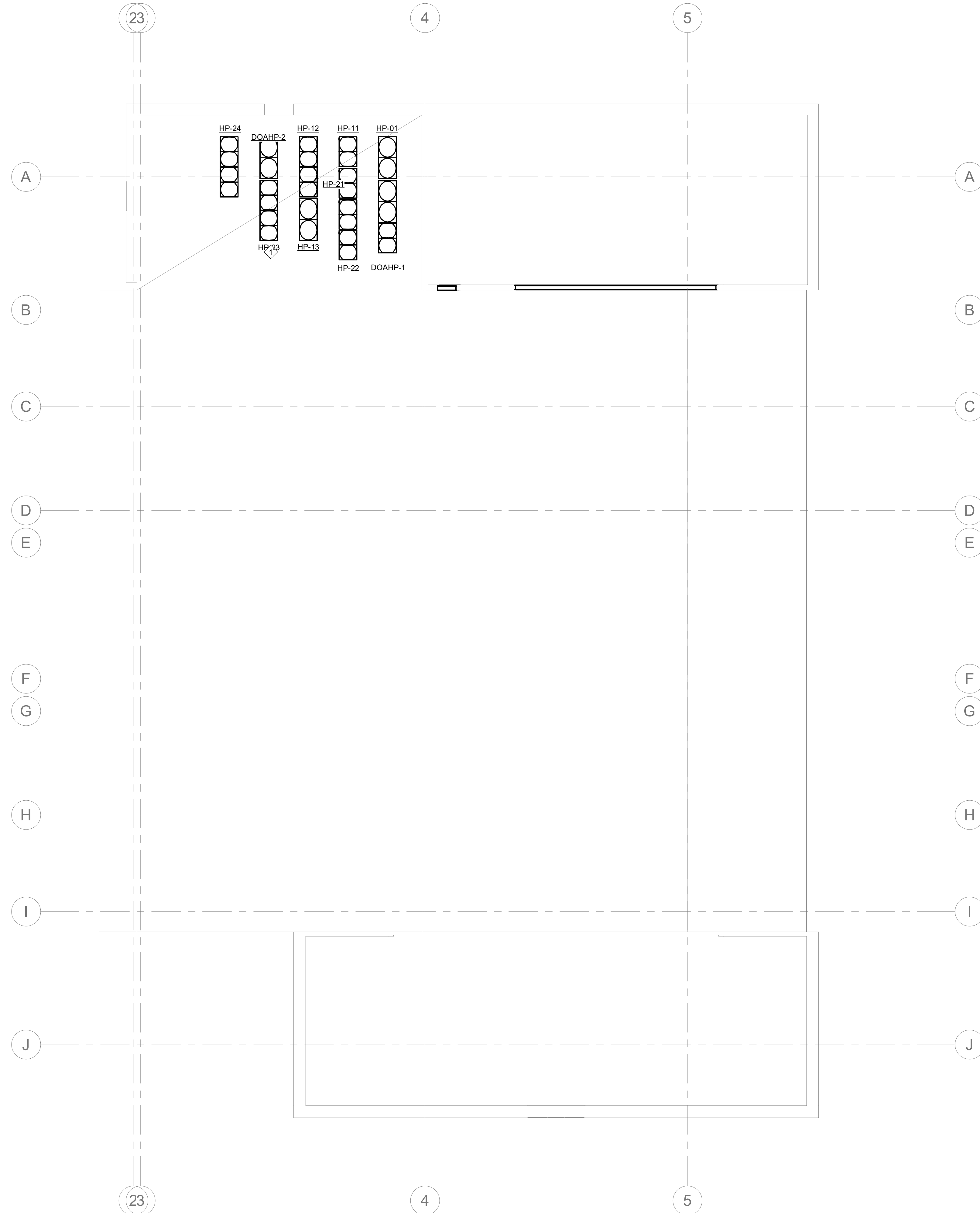
2 PHASE 3 3RD FLOOR DEMO PLAN
M-PH3.3 1/8" = 1'-0"
0 8 16 24

GENERAL PHASING NOTES:

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1 PHASE 3 ROOF MECHANICAL PLAN
M-PH3.4 1/8" = 1'-0"

2 PHASE 3 ROOF DEMO PLAN
M-PH3.4 1/8" = 1'-0"

PROJECT NUMBER: 22175-03
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PROJECT INFORMATION:

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DRAWING NAME
PHASE 3 MECHANICAL 4TH FLOOR AND ROOF PLANS

DRAWING NO.
M-PH3.4

Drawn By: EBZ Checked By: MAR

GENERAL PHASING NOTES:

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2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 4 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (E)AHU-1-1982. TEMPORARY UNIT TO BE PROVIDED SO THAT THE BUILDING VENTILATION IS NOT OFF LINE DURING CONSTRUCTION.
2. DEMOLISH AND REMOVE (E)CH-1-1982.
3. INSTALL DOAHP-3-2022 CONDENSING UNIT ON THE ROOF.
4. INSTALL NEW DOAHP-3-2022 TO SERVE THE 1982 WING IN MECHANICAL PENTHOUSE (3029).
5. INSTALL NEW OA AND EA DUCTS SERVING THE FIRST AND SECOND FLOORS DOWN THROUGH MECHANICAL SHAFT.
6. THE CLERK OF COURT OFFICES SHALL BE RELOCATED TO AN AVAILABLE SPACE DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH EACH OFFICE PRIOR TO THE START OF CONSTRUCTION IN THEIR AREA.

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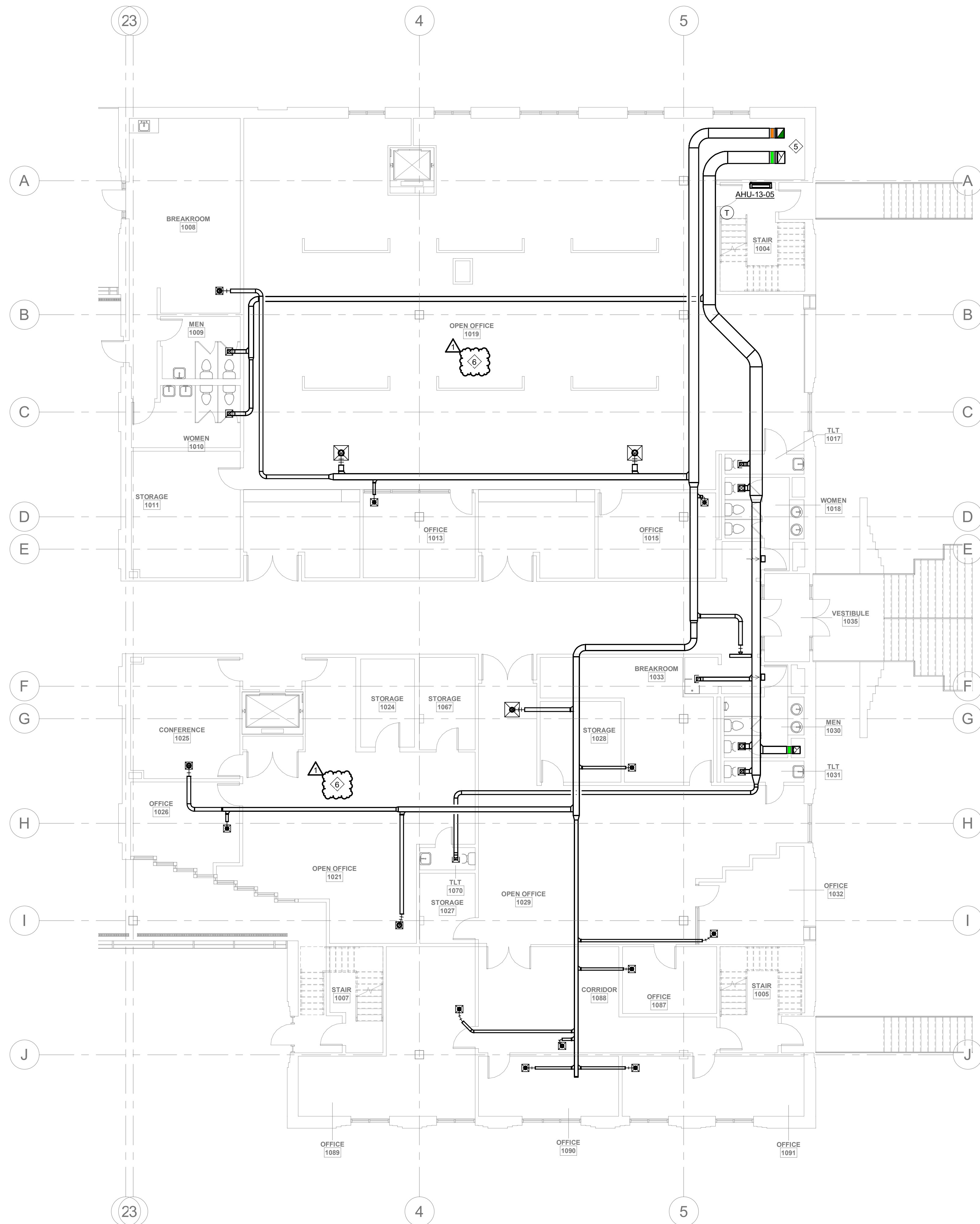
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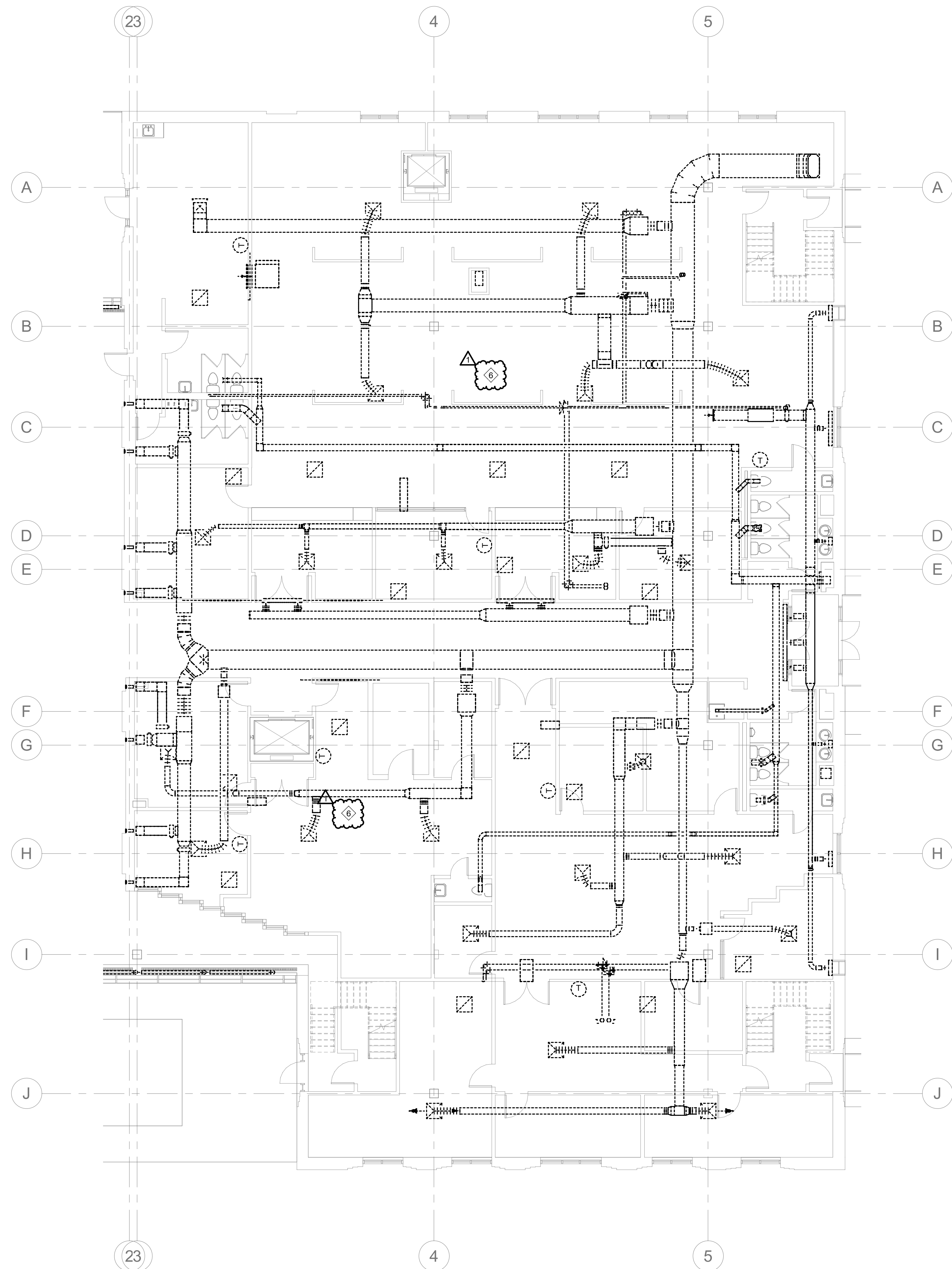
DRAWING NAME
**PHASE 4 MECHANICAL
 1ST FLOOR PLANS**

DRAWING NO.
M-PH4.1

Drawn By: EBZ Checked By: MAR



1 PHASE 4 1ST FLOOR MECHANICAL PLAN
 M-PH4.1
 1/8" = 1'-0"



2 PHASE 4 1ST FLOOR DEMO PLAN
 M-PH4.1
 1/8" = 1'-0"

GENERAL PHASING NOTES:

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2. NOT ALL PLAN NOTES ARE USED ON DRAWING.

PHASE 4 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (EJAHU-1-1982). TEMPORARY UNIT TO BE PROVIDED SO THAT THE BUILDING VENTILATION IS NOT OFF LINE DURING CONSTRUCTION.
2. DEMOLISH AND REMOVE (EJCH-1-1982).
3. INSTALL DOAHP-3-2022 CONDENSING UNIT ON THE ROOF.
4. INSTALL NEW DOAHP-3-2022 TO SERVE THE 1982 WING IN MECHANICAL PENTHOUSE (3029).
5. INSTALL NEW OA AND EA DUCTS SERVING THE FIRST AND SECOND FLOORS DOWN THROUGH MECHANICAL SHAFT.
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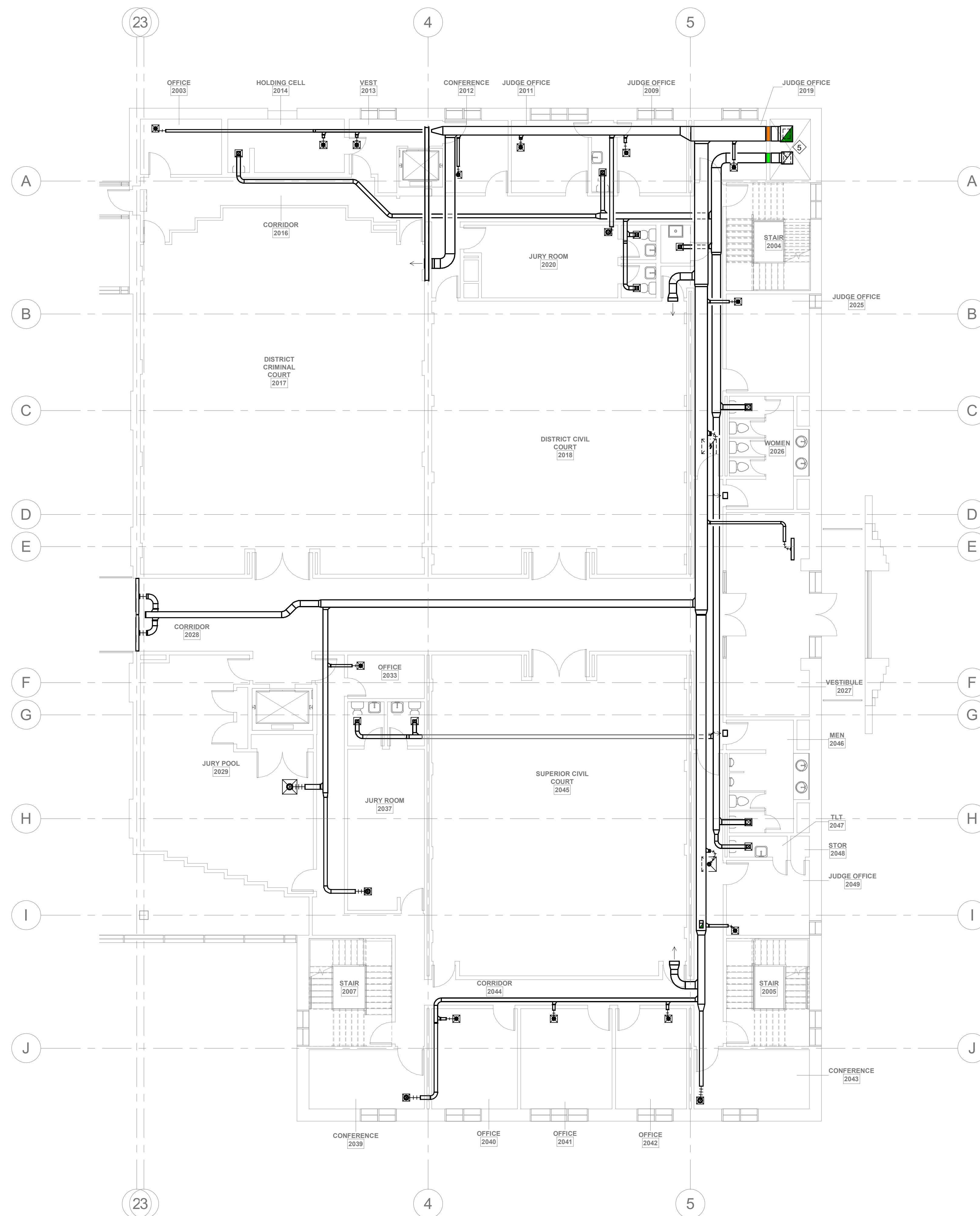
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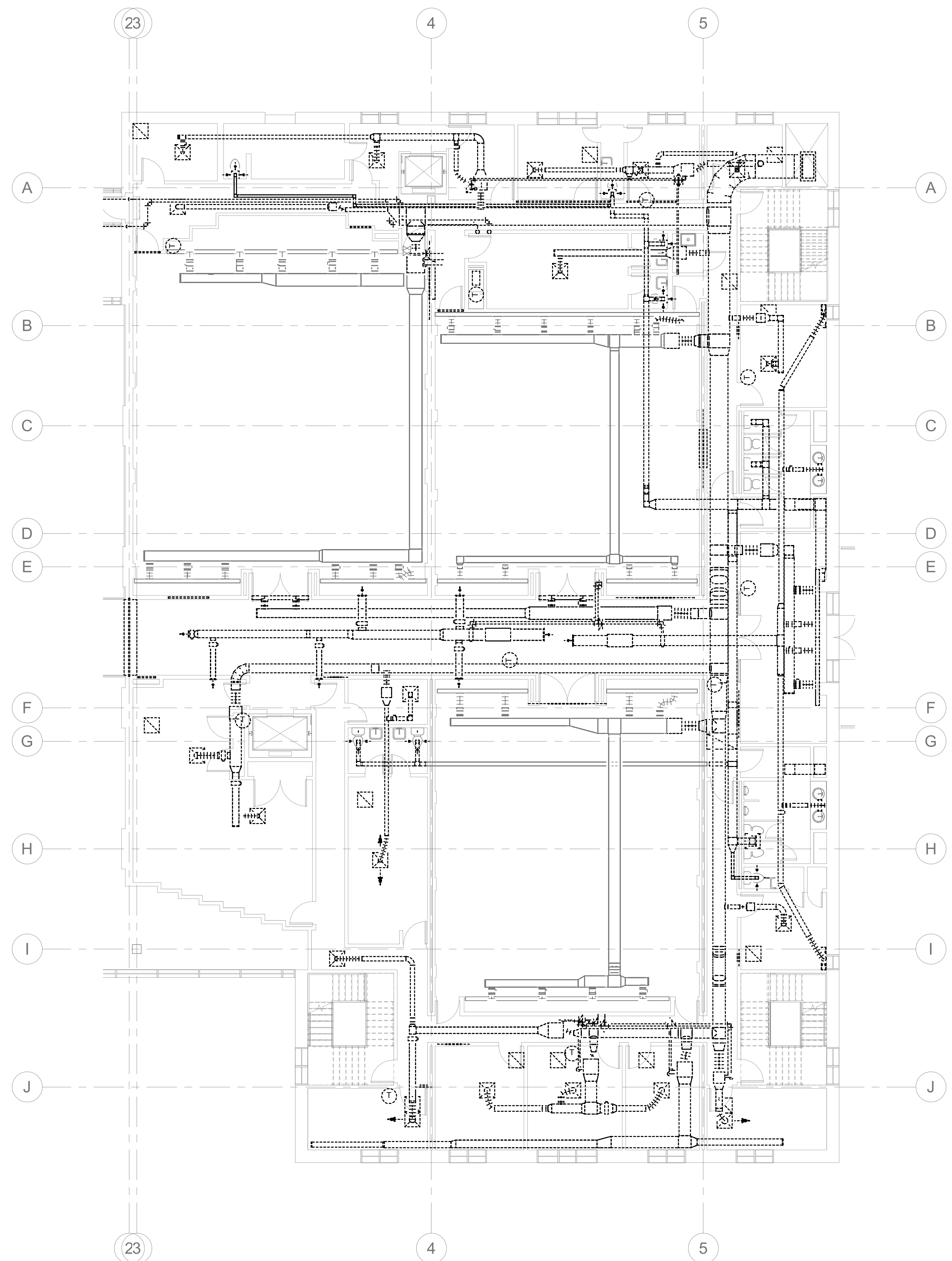
DRAWING NAME
PHASE 4 MECHANICAL 2ND FLOOR PLANS

DRAWING NO.
M-PH4.2

Drawn By: EBZ Checked By: MAR



1 PHASE 4 2ND FLOOR MECHANICAL PLAN
M-PH4.2 1/8" = 1'-0"



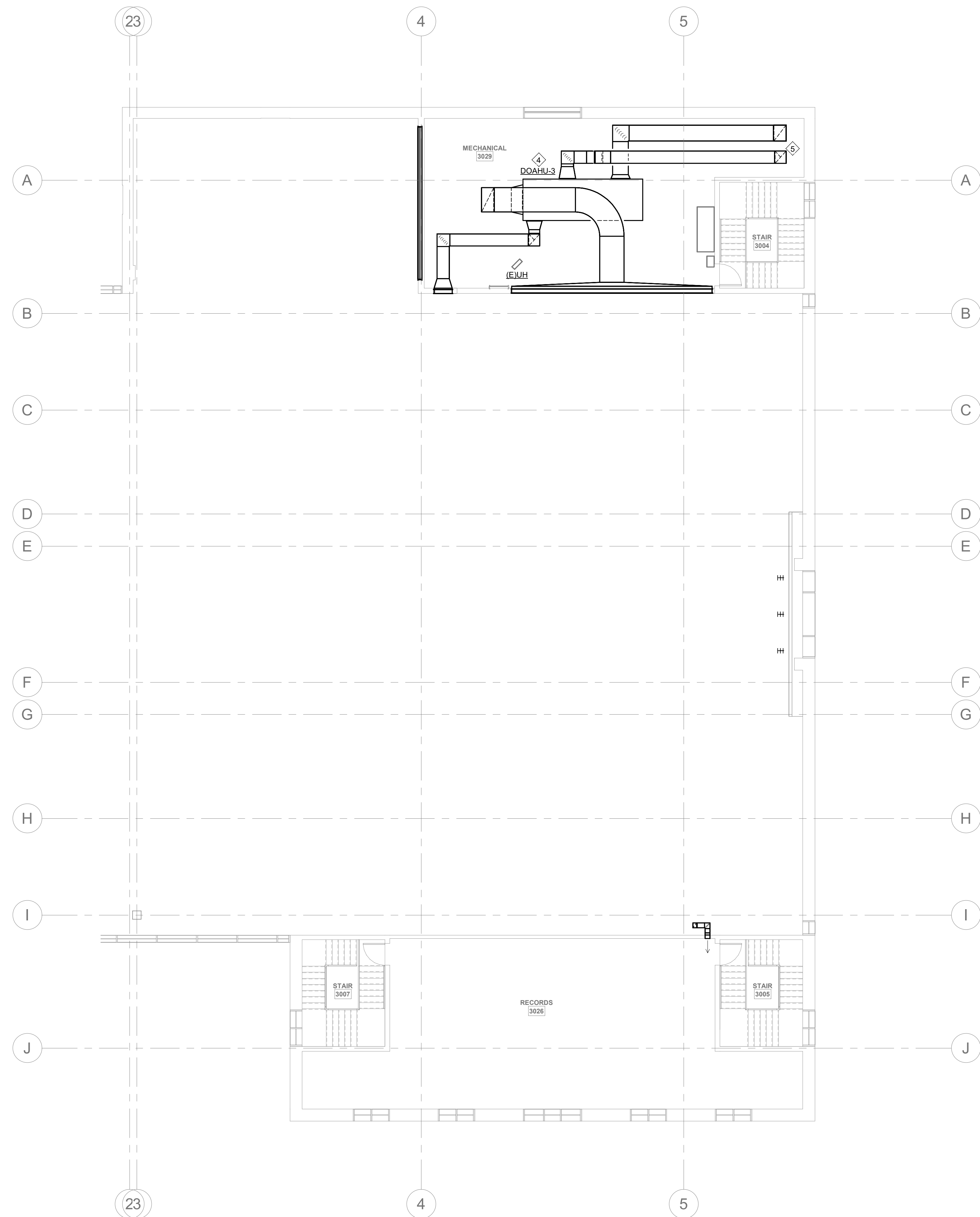
2 PHASE 4 2ND FLOOR DEMO PLAN
M-PH4.2 1/8" = 1'-0"

GENERAL PHASING NOTES:

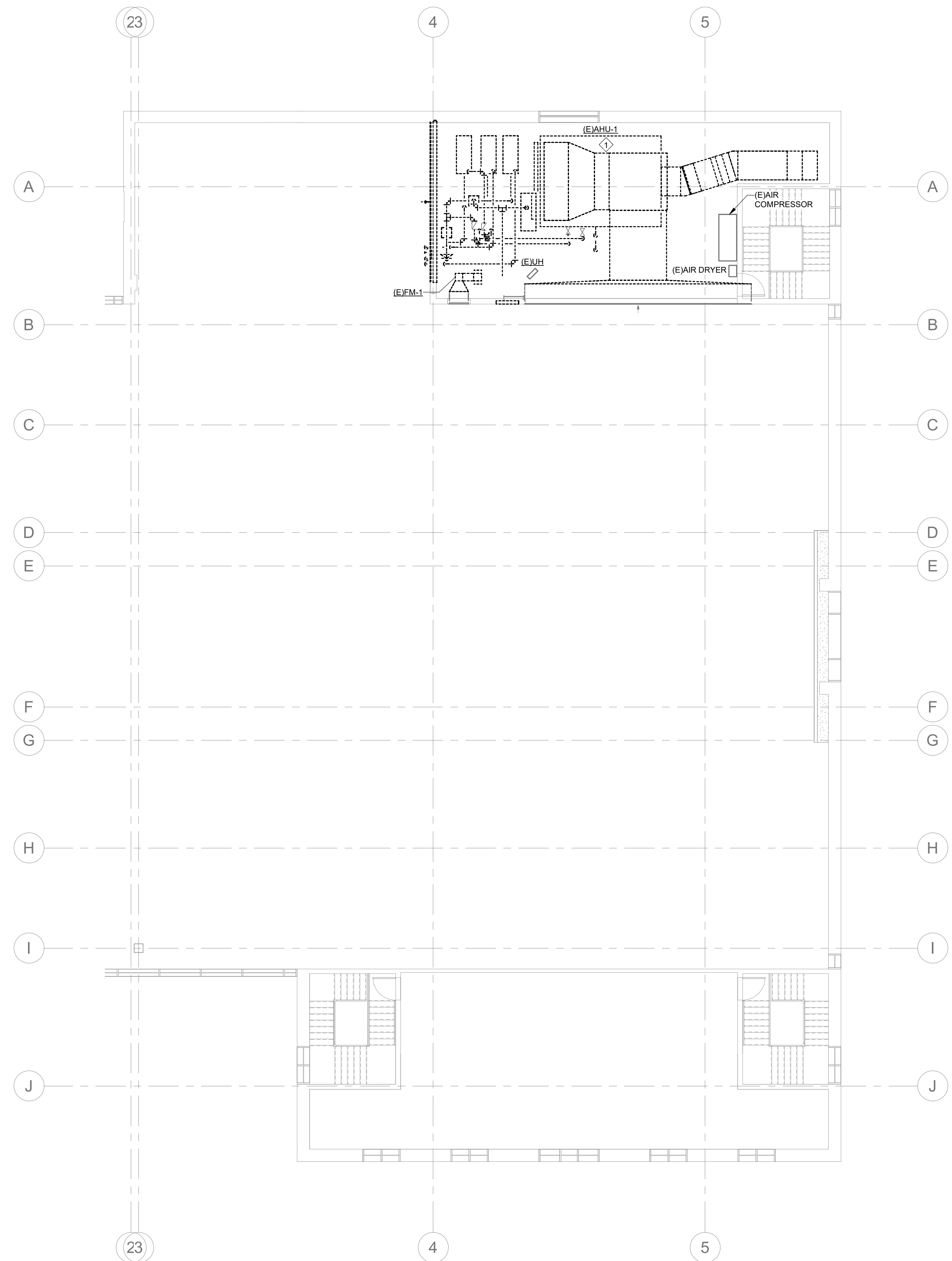
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PHASE 4 PLAN NOTES:

1. DEMOLISH AND REMOVE AIR HANDLING UNIT (E/AHU-1-1982). TEMPORARY UNIT TO BE PROVIDED SO THAT THE BUILDING VENTILATION IS NOT OFF LINE DURING CONSTRUCTION.
2. DEMOLISH AND REMOVE (E/CH-1-1982).
3. INSTALL DOAHP-3-2022 CONDENSING UNIT ON THE ROOF.
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1 PHASE 4 3RD FLOOR MECHANICAL PLAN
M-PH4.3 1/8" = 1'-0"



2 PHASE 4 3RD FLOOR DEMO PLAN
M-PH4.3 1/8" = 1'-0"

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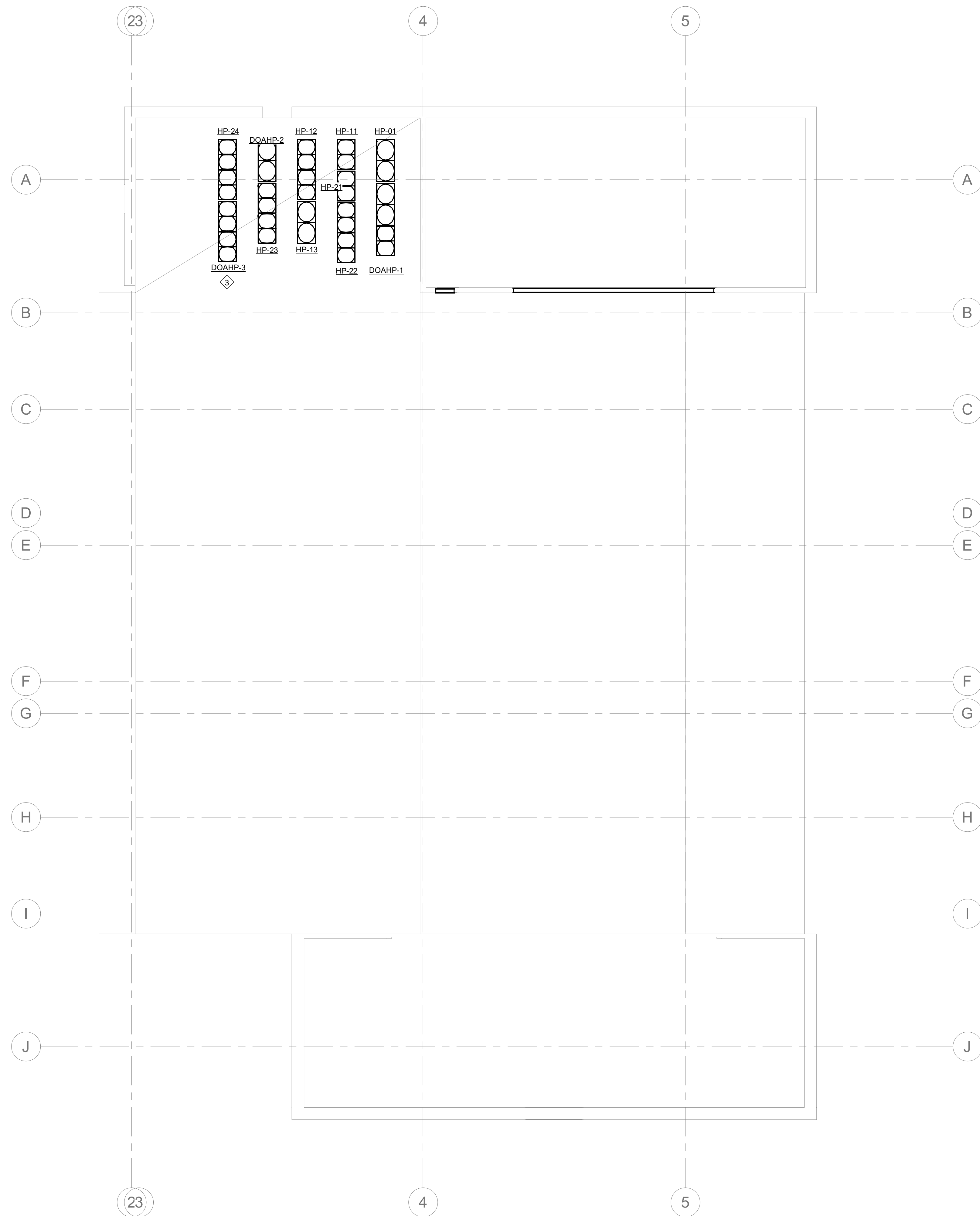
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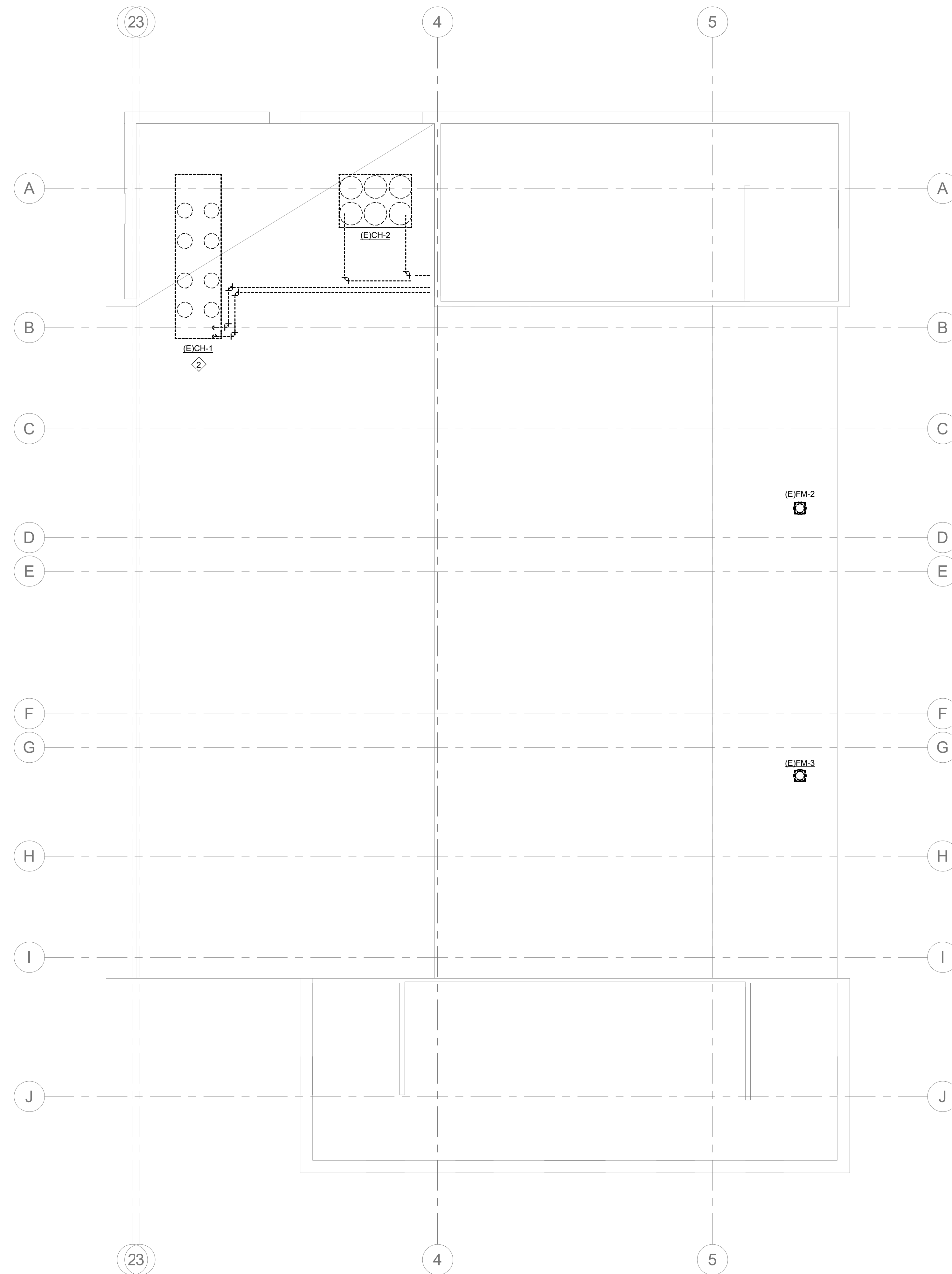
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1. DEMOLISH AND REMOVE AIR HANDLING UNIT (E/AHU-1-1982). TEMPORARY UNIT TO BE PROVIDED SO THAT THE BUILDING VENTILATION IS NOT OFF LINE DURING CONSTRUCTION.
2. DEMOLISH AND REMOVE (E/CH-1-1982).
3. INSTALL DOAHP-3-2022 CONDENSING UNIT ON THE ROOF.
4. INSTALL NEW DOAHP-3-2022 TO SERVE THE 1982 WING IN MECHANICAL PENTHOUSE (3029).
5. INSTALL NEW OA AND EA DUCTS SERVING THE FIRST AND SECOND FLOORS DOWN THROUGH MECHANICAL SHAFT.
6. THE CLERK OF COURT OFFICES SHALL BE RELOCATED TO AN AVAILABLE SPACE DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH EACH OFFICE PRIOR TO THE START OF CONSTRUCTION IN THEIR AREA.



1 PHASE 4 ROOF MECHANICAL PLAN
M-PH4.4 1/8" = 1'-0"



2 PHASE 4 4TH FLOOR DEMO PLAN
M-PH4.4 1/8" = 1'-0"

PROJECT NUMBER: 22175-03
CONSULTANT:
PROJECT INFORMATION:

**LENOIR COUNTY
COURTHOUSE HVAC &
BASEMENT
RENOVATION
PROJECT**
130 S QUEEN ST,
KINSTON, NC 28501

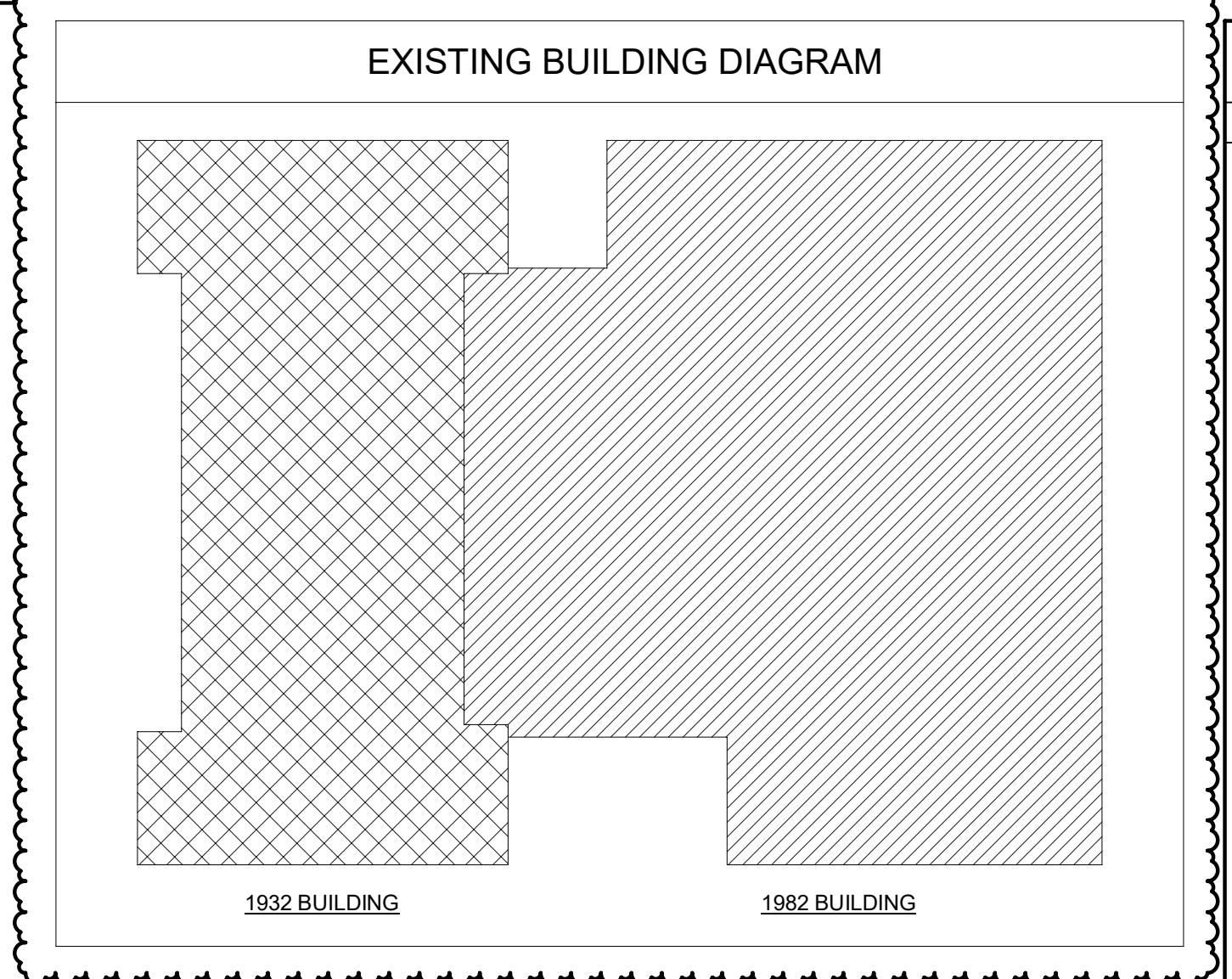
REVISIONS		
NO.	DATE	DESCRIPTION
1	08/23/2023	ADDENDUM 1

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DRAWING NAME
**PHASE 4 MECHANICAL
4TH FLOOR AND ROOF
PLANS**

DRAWING NO.
M-PH4.4

Drawn By: EBZ Checked By: MAR



PLUMBING SYMBOLS LEGEND	
PIPING LEGEND	
	DOMESTIC COLD WATER - CW
	FILTERED WATER - FW
	EXISTING DOMESTIC COLD WATER - (E)CW
	DOMESTIC HOT WATER - HW - 110°F
	DOMESTIC HOT WATER - HW - 140°F
	EXISTING DOMESTIC HOT WATER - (E)HW
	DOMESTIC HOT WATER RETURN - HWR
	DOM. HOT WATER RETURN - 140°F
	EXISTING DOMESTIC HOT WATER RETURN - (E)HWR
	TEMPERED WATER - TW
	VENT PIPING ABOVE FLOOR - V
	EXISTING VENT PIPING ABOVE FLOOR - (E)V
	SANITARY SEWER PIPING - SS
	EXISTING SANITARY SEWER PIPING - (E)SS
	GREASE PIPING - GW
	EXISTING GREASE LADEN PIPING - (E)GW
	STORM DRAIN PIPING - ST
	EXISTING STORM DRAIN PIPING - (E)ST
	OVERFLOW (EMERGENCY) STORM DRAIN PIPING - OST
	EXISTING OVERFLOW EMERGENCY STORM DRAIN PIPING - (E)OST
	CONDENSATE DISCHARGE PIPING - CD
	EXISTING CONDENSATE DISCHARGE - (E)CD
	FIRE PROTECTION PIPING - F
	EXISTING FIRE PROTECTION PIPING - (E)F
	NATURAL GAS PIPING - G
	EXISTING NATURAL GAS PIPING - (E)G
	COMPRESSED AIR PIPING - CA
	EXISTING COMPRESSED AIR PIPING - (E)CA
	OIL PIPING - O
	SODA/BEER PIPING CHASSE
SYMBOL LEGEND	ABBREVIATIONS
	A AMPS
	AFF ABOVE FINISHED FLOOR
	BFF BELOW FINISHED FLOOR
	BFP BACKFLOW PREVENTER
	BOP BOTTOM OF PIPE
	BTU BRITISH THERMAL UNIT
	CD CONDENSATE DRAIN PIPING
	CFH CUBIC FEET PER HOUR
	CO CLEANOUT
	CTE CONNECT TO EXISTING
	CW COLD WATER (DOMESTIC)
	CWFU COLD WATER FIXTURE UNIT
	DN DRAINAGE FIXTURE UNIT
	DN DOWN
	ECCO EXTERIOR CLEANOUT
	ELEV ELEVATION
	EWC ELECTRIC WATER COOLER
	E/EX EXISTING
	FD FLOOR CLEANOUT
	FLA FLOOR DRAIN
	FOG FOUL, OIL, AND GREASE
	FPWH FROSTPROOF WALL HYDRANT
	FBM FEET PER MINUTE
	FPS FEET PER SECOND
	FS FLOOR SINK
	FT FOOT / FEET
	G GAS PIPING
	GAL GALLON
	GPD GALLONS PER DAY
	GPH GALLONS PER HOUR
	GPM GALLONS PER MINUTE
	HB HOSE BIBS
	HD HUB DRAIN
	HP HORSE POWER
	HW HOT WATER (DOMESTIC)
	HWFU HOT WATER FIXTURE UNIT
	Hz HERTZ
	IN INCH / INCHES
	INV INVERT
	KW KILOWATT
	MBH THOUSAND BRITISH THERMAL UNITS
	MAX MAXIMUM
	MIN MINIMUM
	NC NORMALLY CLOSED
	NO NORMALLY OPEN
	NTS NOT TO SCALE
	PRV PRESSURE REDUCING VALVE
	RD ROOF DRAIN
	RL ROOF LEADER
	RPM REVOLUTIONS PER MINUTE
	RPZ REDUCED PRESSURE ZONE
	SD STORM DRAIN
	SG SPECIFIC GRAVITY
	SS SANITARY SEWER
	SQFT SQUARE FEET
	TD TRENCH DRAIN
	TDH TOTAL DYNAMIC HEAD
	TMV THERMOSTATIC MIXING VALVE
	TOP TOP OF PIPE
	TP TRAP PRIMER
	V VOLTS
	VB VACUUM BREAKER
	VTR VENT THRU ROOF
	WC WATER COLUMN
	WCO WALL CLEAN OUT
	WH WALL HYDRANT
	WHA WATER HAMMER ARRESTER
	WSFU WATER SUPPLY FIXTURE UNIT

(NOT ALL SYMBOLS ARE USED)

PLUMBING GENERAL NOTES:

- CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL CODES AND HEALTH REGULATIONS HAVING JURISDICTION. CONTRACTOR SHALL PAY ALL FEES AND PERMITS REQUIRED.
- CONTRACTOR SHALL GUARANTEE INSTALLATION AGAINST DEFECTS IN WORKMANSHIP, EQUIPMENT AND MATERIAL FURNISHED ON PROJECT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. PROVIDE EXTENDED WARRANTIES FOR EQUIPMENT SUCH AS WATER HEATERS WHEN REQUIRED.
- SUBMIT FOR APPROVAL THE NUMBER OF SHOP DRAWINGS AND MANUFACTURERS LITERATURE ON ALL PLUMBING FIXTURES & MATERIALS AS REQUIRED TO THE ARCHITECT OR OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL VISIT THE JOB SITE AND EXAMINE PREMISES AT AND ADJACENT TO PROPOSED WORK. VERIFY EXISTING PIPE SIZES, LOCATION AND SUITABILITY FOR CONNECTION TO THE NEW SYSTEM PRIOR TO BID.
- DRAWINGS ARE DIAGRAMMATIC AND INTEND TO SHOW APPROXIMATE LOCATION OF PIPING, FIXTURES, ETC. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND COORDINATE WITH OTHER TRADES FOR PIPE ROUTING AND EQUIPMENT PLACEMENT. INSTALL ALL WORK WITHOUT CONFLICT WITH OTHER TRADES AND MAKE MINOR ALTERATIONS AS REQUIRED WITHOUT ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL COOPERATE FULLY WITH OWNER IN SCHEDULING AND MAKING CONNECTIONS TO EXISTING SERVICE LINES SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND SHORTEST POSSIBLE INTERRUPTION OF SERVICE.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL VOLTAGES, ELECTRICAL LOADS, ETC., OF ELECTRICALLY OPERATED EQUIPMENT PRIOR TO PURCHASING EQUIPMENT. ALL EQUIPMENT SHALL BE U.L. AND NEMA APPROVED.
- MAINTAIN A MINIMUM CLEARANCE OF 3'-0" IN FRONT OF ALL ELECTRICAL PANELS AND 1'-0" EITHER SIDE OF PANEL TO STRUCTURE. ALL PIPING SHALL BE ROUTED AROUND THIS AREA.
- CONTRACTOR SHALL FURNISH ACCESS PANELS, TO BE INSTALLED BY THE GENERAL CONTRACTOR, AS REQUIRED FOR PLUMBING INSTALLATIONS, FOR ACCESS TO VALVES AND DEVICES.
- ALL HORIZONTAL AND VERTICAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. SUPPORTS SHALL SECURELY HOLD PIPING, PREVENT VIBRATION, COMPENSATE FOR STATIC AND OPERATIONAL CONDITIONS OF THE VARIOUS SYSTEMS, AND SHALL NOT BE SUBJECT TO ELECTROLYTIC ACTION.
- ALL DOMESTIC HOT WATER AND COLD WATER PIPING ABOVE SLAB SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS USING "NO-LEAD" SOLDER. DOMESTIC WATER PIPING BELOW CONCRETE SLAB SHALL BE TYPE "K" SOFT COPPER. NO SOLDER JOINTS ARE ALLOWED BELOW CONCRETE SLAB. COPPER PIPING PASSING UNDER AND THROUGH CONCRETE SLAB OR WALLS SHALL BE PROTECTED WITH A PROTECTIVE SHEATHING OR WRAPPING TO PREVENT CORROSION TO THE COPPER PIPING.
- VALVES SERVING DOMESTIC WATER SYSTEMS SHALL BE BALL VALVES OR APPROVED EQUAL. ALL VALVES SHALL BE LOCATED SO AS TO BE ACCESSIBLE BY MAINTENANCE PERSONNEL.
- PROVIDE 1" THICK FIBERGLASS PIPE INSULATION WITH SERVICE JACKET ON ALL DOMESTIC WATER PIPING. DOMESTIC COLD WATER PIPE INSULATION SHALL HAVE A CONTINUOUS VAPOR BARRIER.
- ALL WATER PIPING SHOWN ROUTED IN EXTERIOR WALLS SHALL BE LOCATED INSIDE THE BUILDING INSULATION AND FINISHED WALL TO PREVENT FREEZE DAMAGE.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND INVERT AT THE POINT OF CONNECTION TO THE SEWER SYSTEM BEFORE DETERMINING FINAL ROUTING OF SOIL, WASTE AND VENT PIPING.
- ALL SOIL, WASTE AND VENT PIPING SHALL BE SERVICE WEIGHT NO HUB CAST IRON WITH HEAVY DUTY S.S. NO HUB COUPLINGS AND NO HUB CAST IRON FITTINGS. ENSURE FITTING STOP BOSS DOES NOT INTERFERE WITH HEAVY DUTY COUPLINGS. PROVIDE 3M FIRE BARRIER CALK CP-25 CAULKING, OR U.L. APPROVED EQUAL, AT ANY PENETRATION OF FIRE RATED ASSEMBLIES.
- ALL SOIL, WASTE AND VENT PIPING SHALL BE UNIFORMLY GRADED AND SHALL HAVE A SLOPE OF NOT LESS THAN 1/8" PER FOOT FOR PIPE 3" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR PIPE LARGER THAN 3" IN DIA.
- NUMBER OF PLUMBING FIXTURES REQUIRED SHALL BE IN ACCORDANCE WITH NORTH CAROLINA PLUMBING CODE 403 AND COORDINATED WITH ARCHITECTURAL DRAWINGS. ACCESSIBLE DESIGN REQUIREMENTS SHALL BE IN ACCORDANCE WITH ICC (ANSI) A117.1.
- CONTRACTOR SHALL PROVIDE ANY TEMPORARY PIPING, LOOP AROUNDS, CONNECTION NECESSARY TO MAINTAIN SERVICE TO AREAS OUTSIDE THIS PROJECT SCOPE, AND TO ACCOMPLISH PHASING AS OUTLINED IN CONTRACT DOCUMENTS.
- CONTRACTOR SHALL SCOPE EXISTING BELOW FLOOR WASTE PIPE AS REQUIRED TO DETERMINE LOCATION TO PERFORM NEW WORK AS INDICATED.
- CONTRACTOR SHALL PROVIDE SHOCK ARRESTORS ON COLD WATER PIPING SERVING FLUSH VALVES, WASHER BOXES, SOLENOIDS AND QUICK CLOSING VALVES.

SEALS

ATLANTA • CHARLOTTE • GREENVILLE • RICHMOND
877.4.DEVITA • corp@devitainc.com

DeVita & Associates, Inc. Project : 22175-03
NC Firm License # C-0819

PROJECT NUMBER: 22175-03
CONSULTANT:

PROJECT INFORMATION:

**LENOIR COUNTY
COURTHOUSE HVAC &
BASEMENT
RENOVATION
PROJECT**

130 S QUEEN ST,
KINSTON, NC 28501

REVISIONS		
NO.	DATE	DESCRIPTION
1	08/23/2023	ADDENDUM 1

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DRAWING NAME
**PLUMBING LEGENDS
AND NOTES**

DRAWING NO.
P0.1

Drawn By: DRB Checked By: MAR



- GENERAL NOTES:**
- REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E08 FOR MORE INFORMATION.
 - PROVIDE WORKING CLEARANCE AT ALL ELECTRICAL PANELS PER NEC.
 - COORDINATE WITH LOW-VOLTAGE VENDOR FOR EXACT LOCATIONS AND REQUIREMENTS REGARDING ALL SECURITY, IT, AND OTHER LOW-VOLTAGE ITEMS.

- PLAN NOTES:**
- PROVIDE NEW PANEL 'MDP' AND RECONNECT EXISTING CIRCUITS. SEE PANEL SCHEDULES AND POWER RISER DIAGRAM FOR MORE INFORMATION.
 - NEW LOCATION OF TRANSFORMER. SEE PANEL SCHEDULES AND POWER RISER DIAGRAM FOR MORE INFORMATION.
 - PROVIDE NEW PANEL 'SDP-2'. SEE PANEL SCHEDULES AND POWER RISER DIAGRAM FOR MORE INFORMATION.
 - REMOVE EXISTING CIRCUIT BREAKER FEEDING DEMOLISHED AIR HANDLER AND PROVIDE NEW 15A/2P CIRCUIT BREAKER. CONNECT NEW AHU TO NEW CIRCUIT BREAKER WITH NEW WIRING. REUSE CONDUIT IF ABLE.
 - PROVIDE DOOR STOP TO PROTECT PANELBOARD BEHIND DOOR FROM DOOR IMPACT.
 - RECONNECT TO EXISTING CIRCUIT MADE AVAILABLE AFTER DEMOLITION OF EXISTING EXHAUST FAN. REUSE CONDUIT IF ABLE.
 - PROVIDE NEW GFI 5-20R RECEPTACLE AND MOUNT BY MECHANICAL EQUIPMENT ABOVE THE CEILING.
 - FUSED DISCONNECTS FEEDING PANEL 'SDP' AND PANEL 'SDP-2'. MOUNT ON RACK. SEE POWER RISER DIAGRAM FOR DISCONNECT SIZE.
 - REUSE DEMOLISHED RECEPTACLE/DATA DEVICE LOCATION FOR ROUGH-IN OF NEW DEVICES.
 - CONTROL POWER FOR BMS. COORDINATE LOCATION AND REQUIREMENTS WITH CONTROLS CONTRACTOR.
 - REPLACE EXISTING RECEPTACLE IN ROOM WITH NEW 5-20R GFI RECEPTACLE. ONLY CONNECT NEW RECEPTACLE TO CIRCUIT INDICATED USING 2#12, 1#12G, 3/4"C. IF ADDITIONAL DEVICES EXIST ON PREVIOUS CIRCUIT, MAINTAIN EXISTING WIRING AND CONDUIT TO POWER ADDITIONAL EXISTING DEVICES.

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

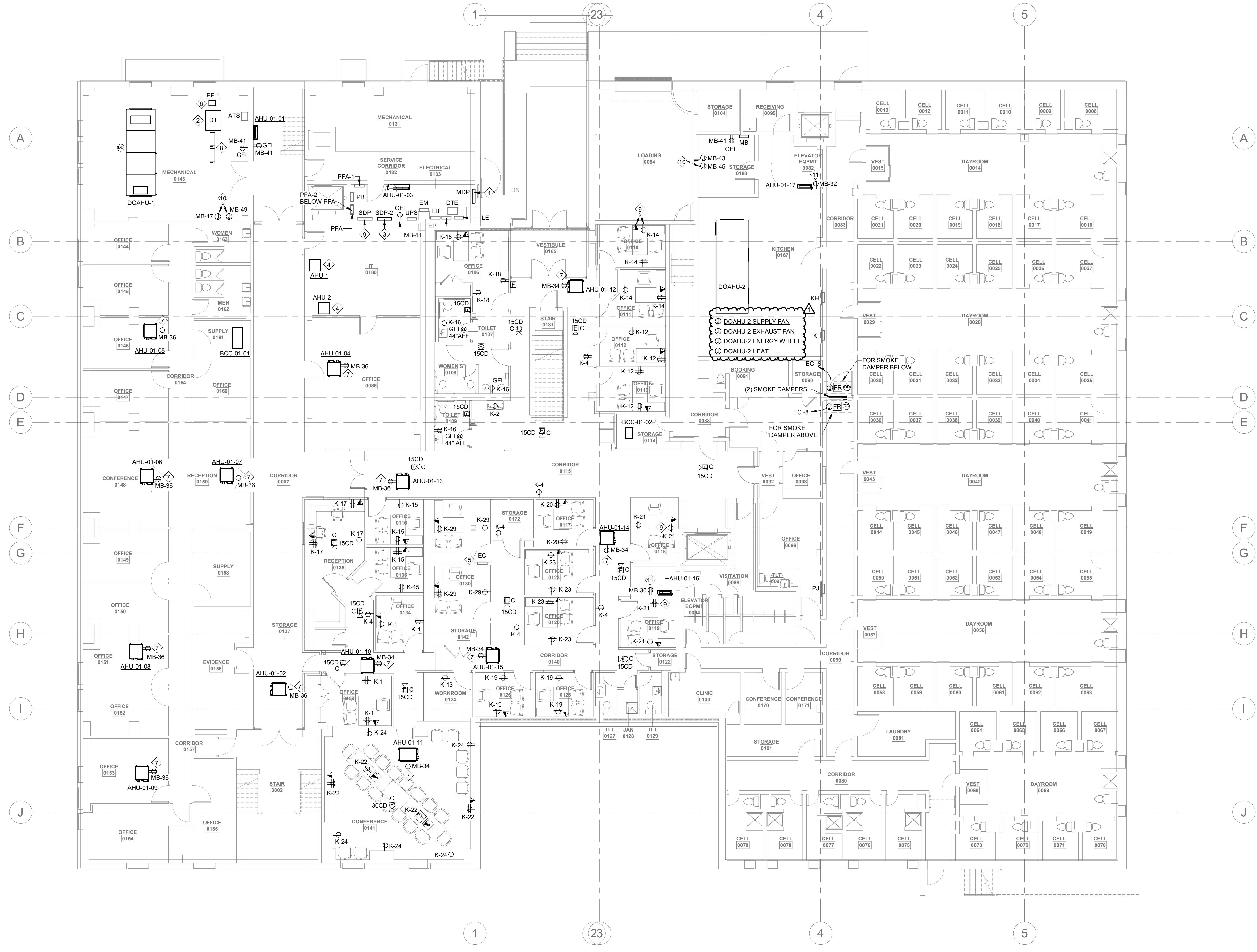
LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

REVISIONS		
NO.	DATE	DESCRIPTION
1	08/23/2023	ADDENDUM 1

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DRAWING NAME
ELECTRICAL BASEMENT PLAN - POWER

DRAWING NO.
E1.0
 Drawn By: RHV Checked By: KCW



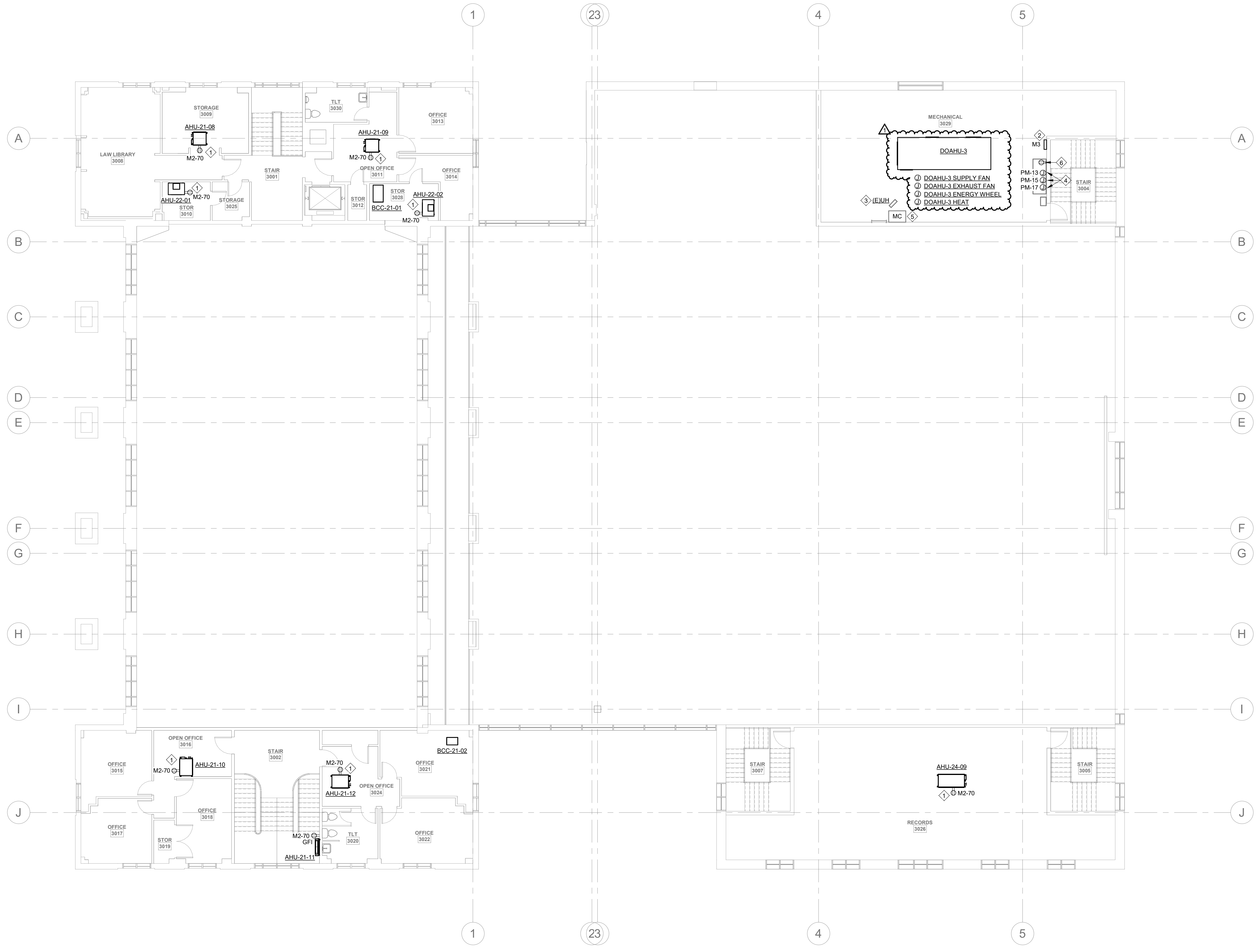
1 BASEMENT ELECTRICAL PLAN - POWER
 E1.0
 1/8" = 1'-0"
 0 8 16 24



GENERAL NOTES:
 A. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E0.8 FOR MORE INFORMATION.
 B. PROVIDE WORKING CLEARANCE AT ALL ELECTRICAL PANELS PER NEC.
 C. COORDINATE WITH LOW-VOLTAGE VENDOR FOR EXACT LOCATIONS AND REQUIREMENTS REGARDING ALL SECURITY, IT, AND OTHER LOW-VOLTAGE ITEMS.

PLAN NOTES:

- PROVIDE NEW GFI 5-20R RECEPTACLE AND MOUNT BY MECHANICAL EQUIPMENT ABOVE THE CEILING.
- REWORK OR RELOCATE EXISTING EQUIPMENT TO ACCOMMODATE NEW PANEL 'M3'. COORDINATE WITH OTHER TRADES.
- REMOVE CONNECTION BETWEEN EXISTING UNIT HEATER AND EXISTING PANEL 'MC'. REMOVE ALL ASSOCIATED WIRING AND ACCESSIBLE CONDUIT. RECONNECT EQUIPMENT TO NEW PANEL 'M3'. MATCH EXISTING CONDUCTOR AND CONDUIT SIZE. SEE PANEL SCHEDULES FOR MORE INFORMATION.
- CONTROL POWER FOR BMS. COORDINATE LOCATION AND REQUIREMENTS WITH CONTROLS CONTRACTOR.
- EXISTING PANEL 'MC' TO REMAIN UNTIL ALL EXISTING LOADS HAVE BEEN REMOVED. ONCE ALL EXISTING LOADS HAVE BEEN REMOVED, PANEL 'MC' SHALL BE DEMOLISHED.
- REPLACE EXISTING RECEPTACLE WITH NEW 5-20R GFI RECEPTACLE. RECONNECT TO EXISTING CIRCUIT.



1 3RD FLOOR AND MEZZANINE ELECTRICAL PLAN
 E1.3 1/8" = 1'-0"

PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT

130 S QUEEN ST,
 KINSTON, NC 28501

REVISIONS		
NO.	DATE	DESCRIPTION
1	08/23/2023	ADDENDUM 1

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DRAWING NAME
ELECTRICAL 3RD FLOOR AND MEZZANINE PLAN

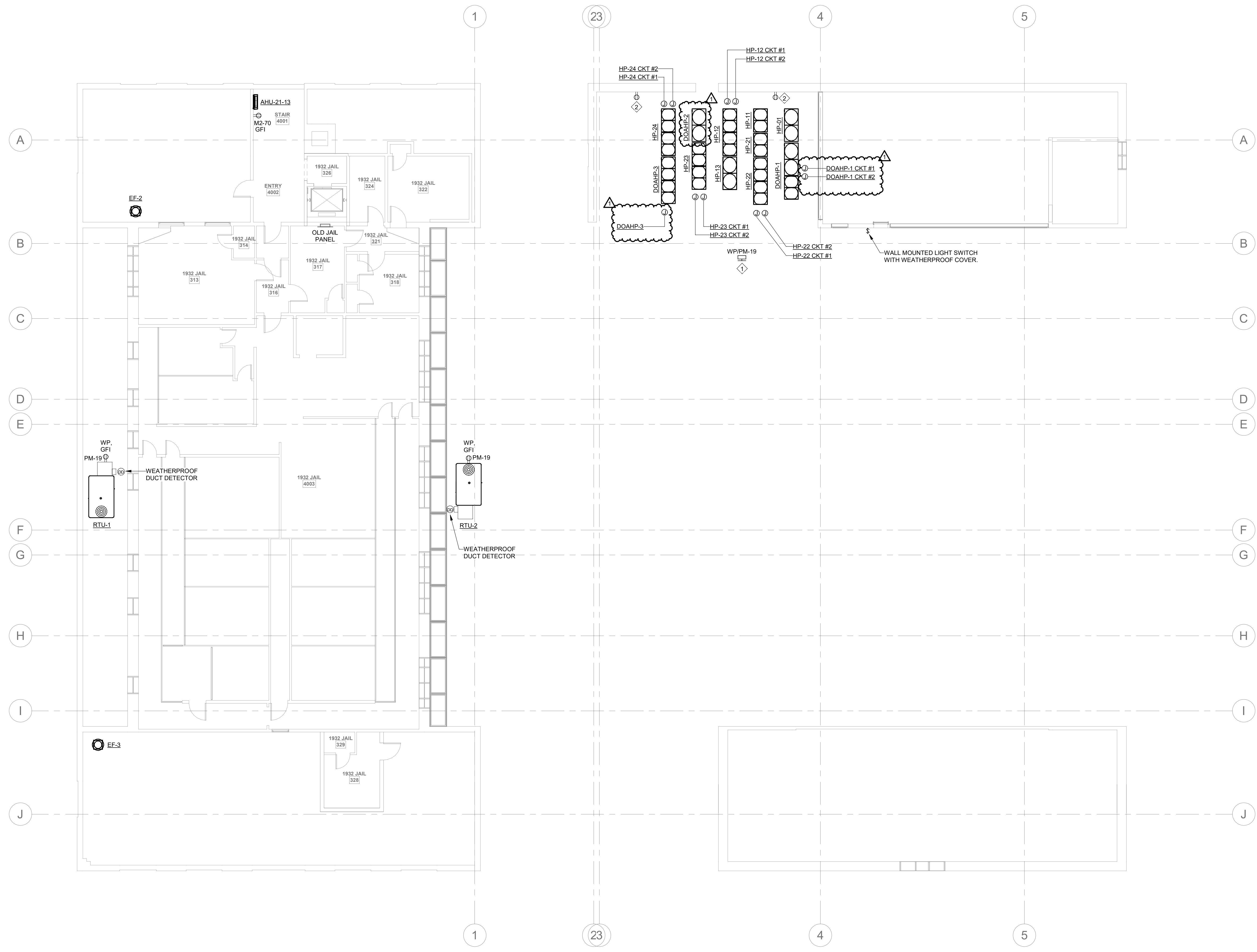
DRAWING NO.
E1.3
 Drawn By: RHW Checked By: KCW



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 Devita & Associates, Inc. Project : 22175-03
 NC Firm License # C-0819

GENERAL NOTES:
 A. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E0 8 FOR MORE INFORMATION.
 B. PROVIDE WORKING CLEARANCE AT ALL ELECTRICAL PANELS PER NEC.
 C. COORDINATE WITH LOW-VOLTAGE VENDOR FOR EXACT LOCATIONS AND REQUIREMENTS REGARDING ALL SECURITY, IT, AND OTHER LOW-VOLTAGE ITEMS.

PLAN NOTES:
 1. POST MOUNTED LIGHT FIXTURE. MOUNT AT 7 AFF.
 2. REPLACE EXISTING RECEPTACLE WITH NEW GFI 5-20R WEATHERPROOF RECEPTACLE. RECONNECT TO EXISTING CIRCUIT.



PROJECT NUMBER: 22175-03
 CONSULTANT:

PROJECT INFORMATION:

LENOIR COUNTY COURTHOUSE HVAC & BASEMENT RENOVATION PROJECT
 130 S QUEEN ST,
 KINSTON, NC 28501

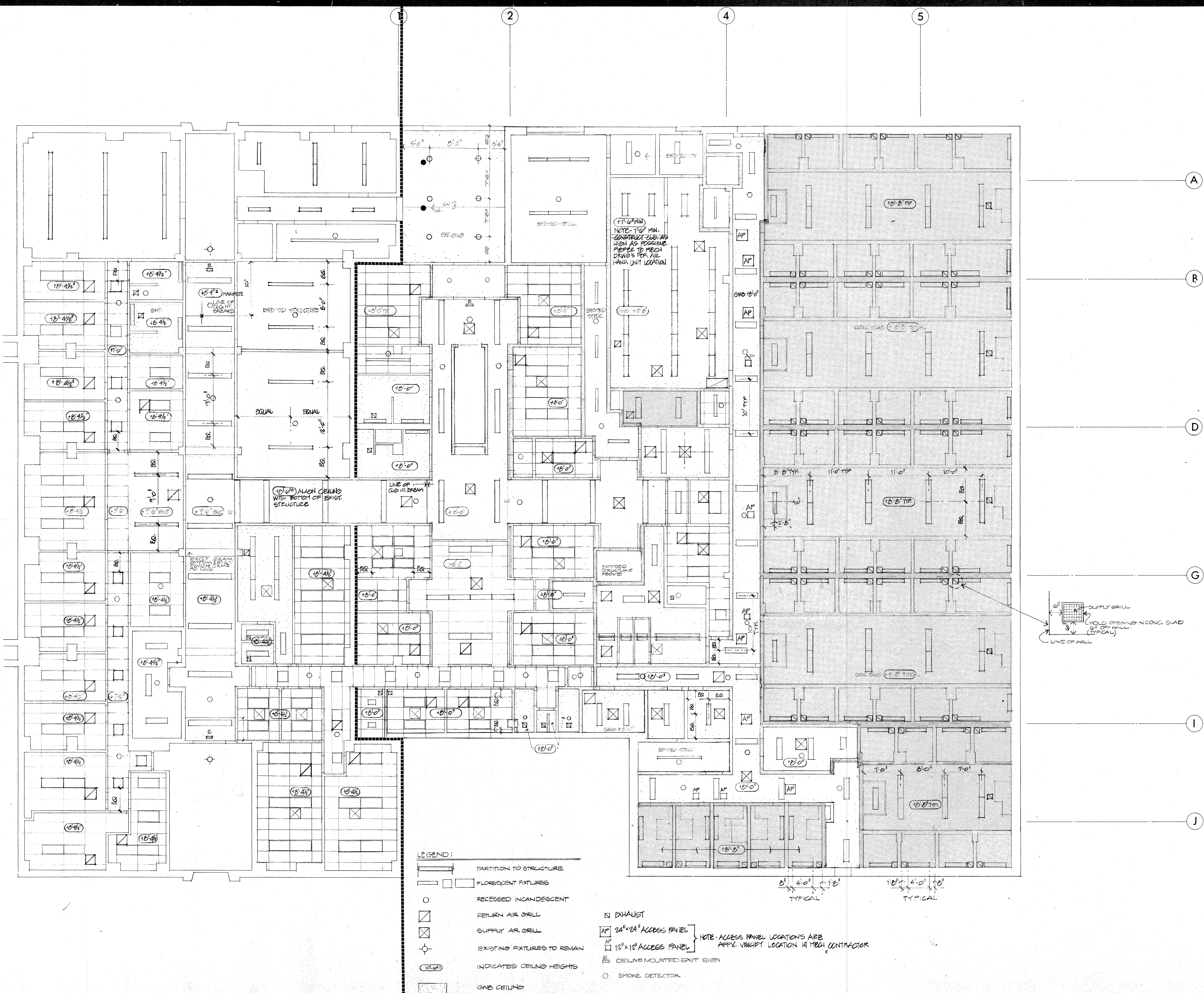
REVISIONS		
NO.	DATE	DESCRIPTION
1	08/23/2023	ADDENDUM 1

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DRAWING NAME
ELECTRICAL 4TH FLOOR AND ROOF PLAN

DRAWING NO.
E1.4
 Drawn By: RHV Checked By: KCW

1 4TH FLOOR ELECTRICAL PLAN
 E1.4
 1/8" = 1'-0"
 0 8' 16' 24'



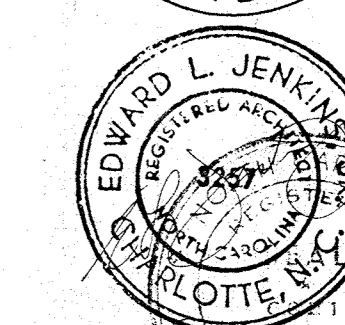
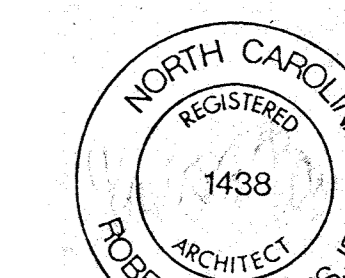
LENOIR COUNTY COURTHOUSE

KINSTON NORTH CAROLINA

Project 7420
Drawn STAFF
Checked JAW
Date 23 APRIL 1981
Scale 1/8" = 1'-0"

BASEMENT FLOOR REFLECTED CEILING PLAN

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A6

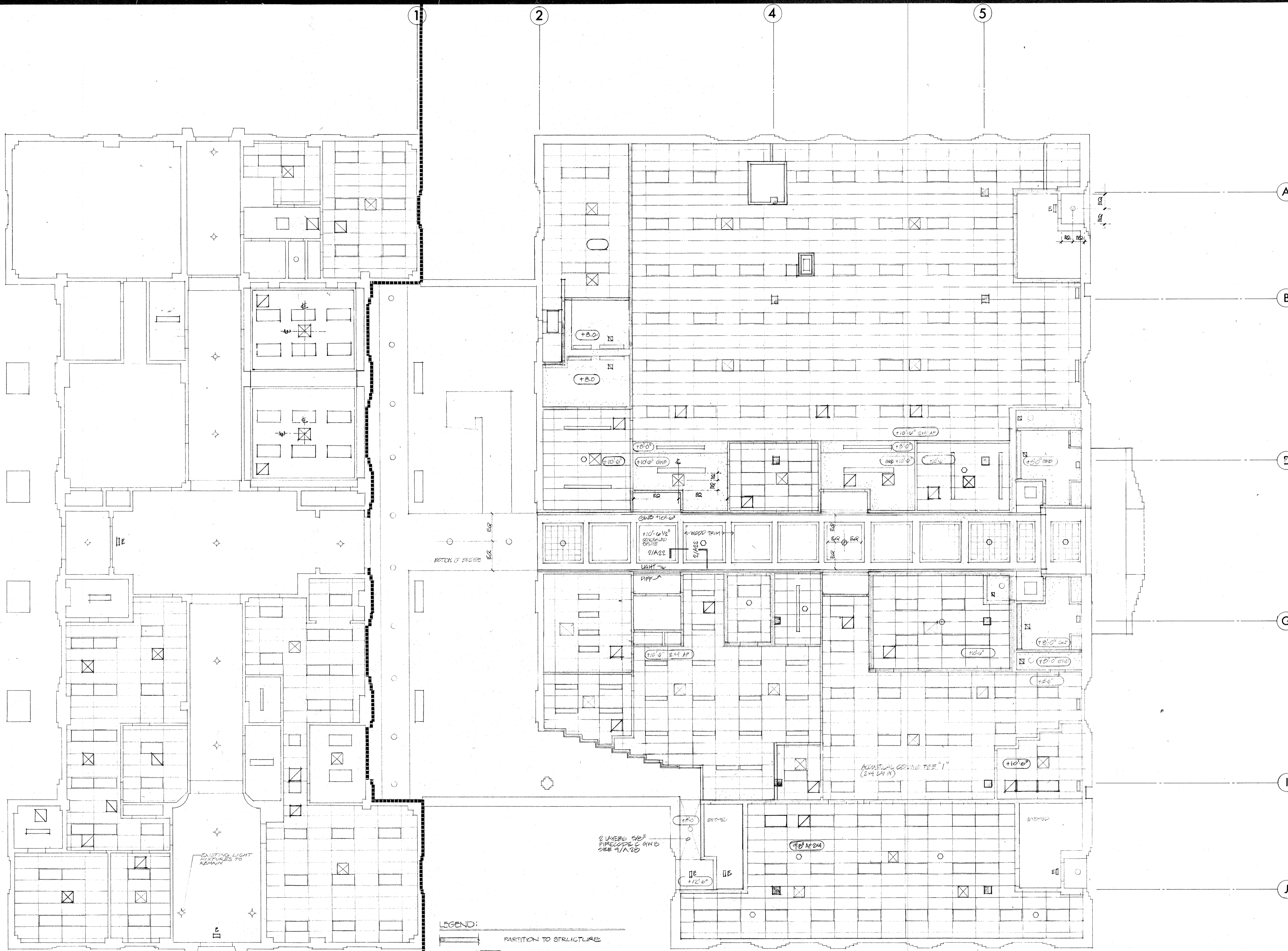
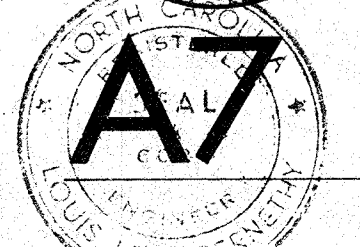
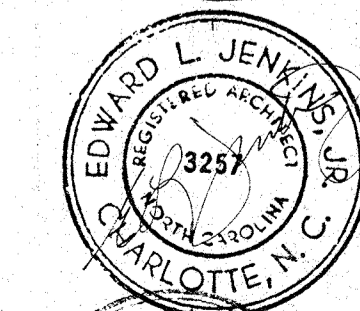
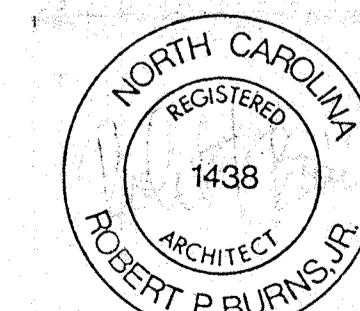
LENOIR COUNTY COURTHOUSE

KINSTON NORTH CAROLINA

Project 7920
Drawn STAFF
Checked JVP
Date 22 APRIL 1981
Scale 1/8" = 1'-0"

FIRST FLOOR REFLECTED CEILING PLAN

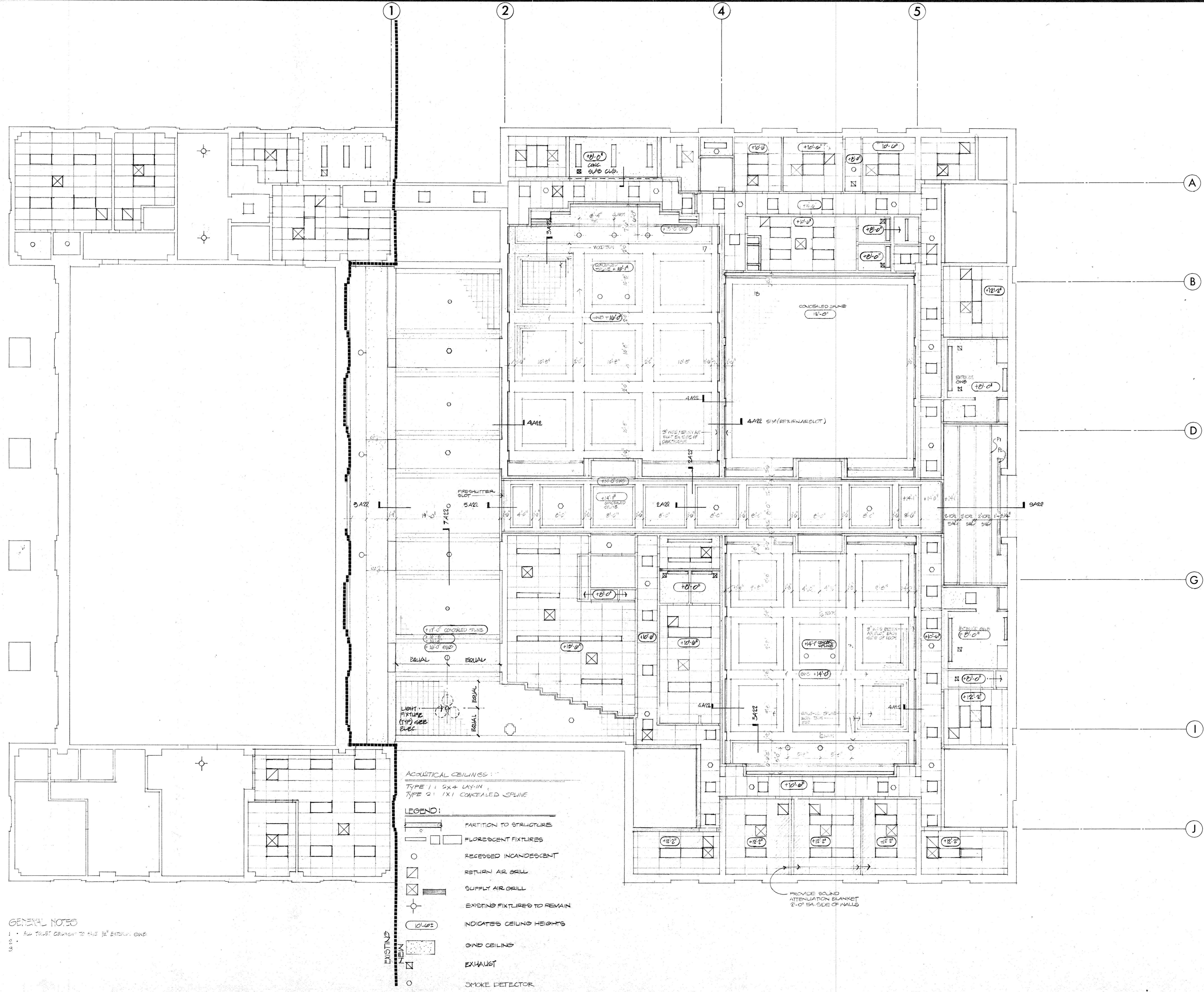
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LEGEND:

	PARTITION TO STRUCTURE		EXHAUST
	FLORESCENT FIXTURES		CEILING MOUNTED EXIT SIGN
	RECESSED INCANDESCENT		SMOKE DETECTOR
	RETURN AIR GRILL		
	SUPPLY AIR GRILL		
	EXISTING FIXTURES TO REMAIN		
	INDICATED CEILING HEIGHTS		
	GRID CEILING		

EXISTING
NEW



GENERAL NOTES
1. ALL TRUST CORNER TO THIS 1/2" EITHER ONE
2.
3.

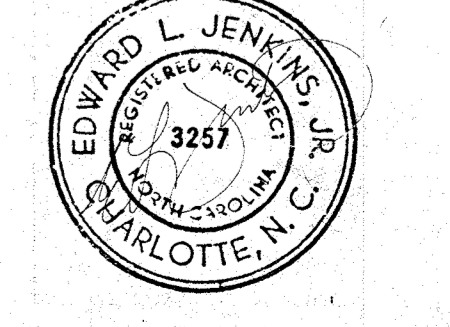
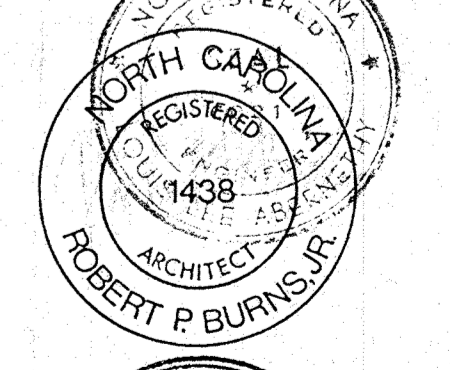
LENOIR COUNTY COURTHOUSE

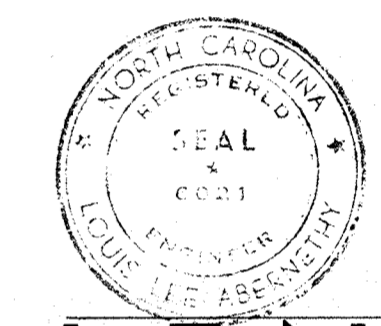
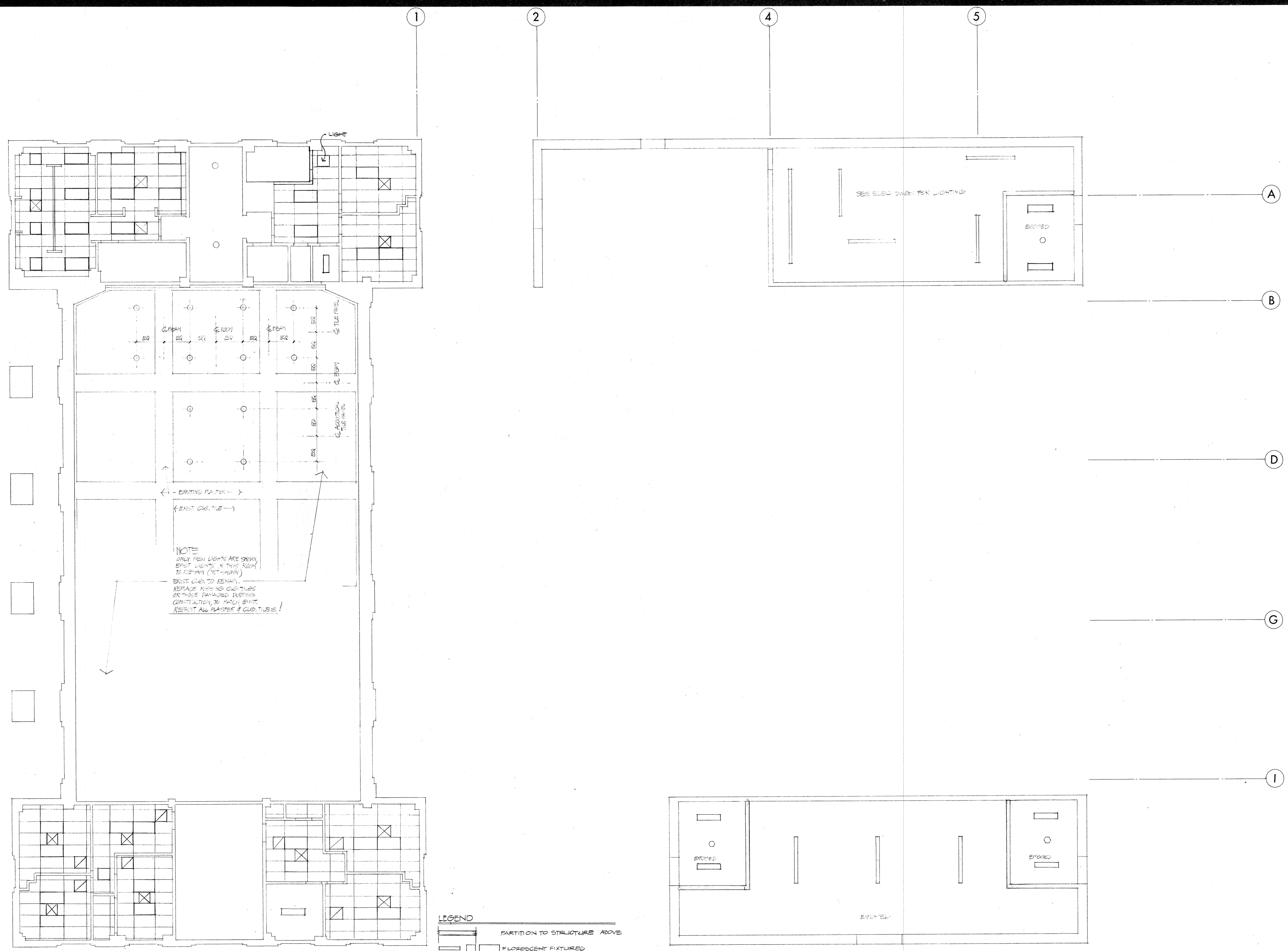
KINSTON NORTH CAROLINA

Project 7920
Drawn STAFF
Checked JAVI
Date 25 APRIL 1979
Scale 1/8"=1'-0"

SECOND FLOOR REFLECTED CEILING PLAN

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**LENOIR
COUNTY
COURT
HOUSE**
KINSTON NORTH CAROLINA

Project 7920
Drawn STAFF
Checked JWW
Date 28 APRIL 1981
Scale 1/8" = 1'-0"

**MEZZANINE
REFLECTED CEILING PLAN**

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