

ADDENDUM #1

DATE: 09.16.2022

TO CONTRACT DOCUMENTS ENTITLED:

PROJECT MANUAL FOR: CP221951 UMPB Ground Floor Renovation

ADVERTISEMENT DATE: 09.16.2022

PREPARED FOR: The Curators of the University of Missouri

CONSULTANTS: CP221951
bc**DESIGN**GROUP
12101 110th Street, Suite 100
Overland Park, KS 66213
913.232.2123 x 809

Drawings and Specifications for the above noted project and the work covered thereby are herein modified as follows, and except as set forth herein, otherwise remain unchanged and in full force and effect:

CLARIFICATIONS, QUESTIONS, ANSWERS:

1. Do existing walls go to deck?
 - a. Yes.
2. If there is underslab plumbing run near a column then will spread footings be a problem?
 - a. Question to be addressed in a forthcoming addendum.
3. Clarify extent of new finishes in the Copy/Alcove area. This area is hatched gray which means "No work" but there is scope called out.
 - a. Added a note to the legend of each drawing. Grey hatch in Code Plan Legend now means "No Work, U.N.O."
4. Wage Order 29 has been added and should replace Wage Order 27 in the project manual

CP221951 DRAWINGS:

1. G100 – Added building risk category to Code Information per GBA comment. Grey hatch label updated to "No work, U.N.O."
2. G101 – Grey hatch added to Floor Plan Legend.
3. A100 – Grey hatch added to Floor Plan Legend.
4. A101 – Grey hatch added to Floor Plan Legend.
5. A200 – Grey hatch added to Reflected Ceiling Plan Legend and Finish Legend.

ATTACHMENTS:

1. Ross and Baruzzini Narrative
2. Wage Order 29.
3. Specification 23 3300
4. G100, G101, A100, A101, A200, M100, M500, and E100

ISSUED BY:

Jackie Dinkins
bc**DESIGN**GROUP

END OF ADDENDUM #1





CP221951 UPMB Addendum # 1

PROJECT: UPMB Ground Floor Renovations
PROJECT NO: MUHC – CP221951, R&B - 1202.0011414.000
DATE: September 16, 2022
BY: Tori Gillespie, Chris Philipp
RE: Addendum #1
DWG REF: See below
SPEC REF: See below
CC: Central File

The following additions, revisions and modifications are hereby made part of the contract documents, which shall be amended accordingly. Acknowledge receipt of addenda on bid form. Failure of your acknowledgement of receipt of this addendum may result in rejection of your offer.

INSTRUCTIONS

Specifications

1. Delete spec section 233300 – Duct Accessories in its entirety and replace with attached revised spec section 233300 – Duct Accessories.
 - a. Revisions include deleting references to combination fire/smoke dampers and inserting spec section for fire dampers.

Drawings

MECHANICAL

1. M100
 - a. REVISED keyed notes 7 and 8.
 - b. ADDED keyed notes 11, 12, and 13.
 - c. ADDED images 3, 4, and 5.
 - d. Refer to reissued sheet dated 09-16-2022.

2. M500
 - a. ADDED Fire Damper Schedule.
 - b. REMOVED Fan Coil Unit detail #8.
 - c. ADDED Fire Damper Detail #8.
 - d. Refer to reissued sheet dated 09-16-2022.

ELECTRICAL

1. E100
 - a. ADDED fire alarm strobe in Exam 102M
 - b. REVISED receptacle in Exam 102D to GFCI.
 - c. ADDED keyed note 3 to rooms 102A, 102B, 102C, 102D, 102E, 102F, 102G, 102H, 102L & 102M.
 - d. Refer to reissued sheet dated 09-16-2022

SIGNED: Tori Gillespie, Chris Philipp

SECTION 23 3300 – DUCT ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
1. Manual volume dampers.
 2. Automatic control dampers.
 3. **Fire dampers.**
 4. Turning vanes.
 5. Duct-mounted access doors.
 6. Flexible connectors.
 7. Duct accessory hardware.

1.2 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Section 20 0800 "Seismic Protection," Section 23 0100 "Basic Mechanical Requirements," and Section 23 0500 "Basic Mechanical Materials and Methods" all apply to the work of this Section as if fully repeated herein.
- C. The following Sections contain requirements that relate to this Section:
1. Division 23 Section "Control Systems" for actuators associated with automatic control dampers.
 2. Division 26 Section "Fire Alarm Systems" for duct-mounted fire detectors.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Operation and Maintenance Data: For air duct accessories to include in operation and maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Comply with NFPA 90A, "Installation of Air Conditioning and Ventilating Systems."
- B. Comply with AMCA 500-D testing for damper rating. All manufactured dampers of every type shall bear the AMCA Certified Ratings Program seal for Air Performance, Air Leakage, and Efficiency.

1.5 REFERENCED STANDARDS

- A. Sheet Metal and Air Conditioning Contractors' National Association. *HVAC Duct Construction Standards – Metal and Flexible*. 3rd ed. Chantilly, VA: SMACNA, 2005.

1.6 EXTRA MATERIALS

- A. Furnish extra fusible links that match products installed and that are packaged with protective covering for storage and identified with labels describing contents. Furnish quantity equal to 10 percent of amount installed, but not less than two (2).

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. HVAC Dampers (all types):
 - a. Air Balance Inc.; a division of Mestek, Inc.
 - b. Greenheck Inc.
 - c. Nailor Industries Inc.
 - d. Pottorff; a division of PCI Industries, Inc.
 - e. Ruskin Company.
 - f. Vibro-Acoustics.
 - 2. Turning Vanes:
 - a. Ductmate Industries, Inc.
 - b. DuroDyne Inc.
 - c. Metalaire, Inc.
 - d. Semco Incorporated.
 - e. Ward Industries, Inc.; a division of Hart & Cooley, Inc.
 - 3. Duct-Mounted Access Doors:
 - a. American Warming and Ventilating; a division of Mestek, Inc.
 - b. Cesco Products; a division of Mestek, Inc.
 - c. Ductmate Industries, Inc.
 - d. Flexmaster U.S.A., Inc.
 - e. Greenheck Fan Corporation.
 - f. McGill AirFlow LLC.
 - g. Nailor Industries Inc.
 - h. Pottorff; a division of PCI Industries, Inc.
 - i. Ventfabrics, Inc.
 - j. Ward Industries, Inc.; a division of Hart & Cooley, Inc.
 - k. Ruskin Company.
 - 4. Flexible Connectors:
 - a. Ductmate Industries, Inc.
 - b. Duro Dyne Inc.
 - c. JP Lamborn Co.
 - d. Ventfabrics, Inc.
 - e. Ward Industries, Inc.; a division of Hart & Cooley, Inc.

2.2 MATERIALS

- A. Comply with SMACNA's "HVAC Duct Construction Standards – Metal and Flexible" for acceptable materials, material thicknesses, and duct construction methods unless otherwise indicated. Sheet metal materials shall be free of pitting, seam marks, roller marks, stains, discolorations, and other imperfections.
- B. Galvanized Sheet Steel: Lock-forming quality; complying with ASTM A653/A653M and having G60 (Z180) or G90 (Z275) coating designation; ducts shall have mill-phosphatized finish for surfaces exposed to view.
- C. Minimum Thickness: All sheet steel used on this project shall be a minimum of 24-gage thickness, and all aluminum sheets shall be a minimum of 0.04-inch thickness, regardless of whether or not SMACNA standards permit thinner gage material.
- D. Reinforcement Shapes and Plates: Galvanized-steel reinforcement where installed on galvanized sheet metal ducts; compatible materials for aluminum and stainless-steel ducts.
- E. Tie Rods: Comply with Articles 2.5 through 2.9, including all accompanying Tables and Figures, of the SMANCA HVAC Duct Construction Standards.

2.3 MANUAL VOLUME DAMPERS

- A. Manual volume dampers shall be standard leakage rating, with linkage outside airstream, suitable for horizontal or vertical applications. Volume dampers may be factory-manufactured or contractor-fabricated per SMACNA Fig. 7-4/7-5.
- B. Material: Match material options throughout this subsection to the material of adjacent ductwork. For duct material, refer to Division 23 Section "Metal Ducts."
- C. Frames: Hat-shaped channels with mitered and welded corners, flanges for attaching to walls, and flangeless frames for installing in ducts.
 - 1. Galvanized-steel, 16-gage or 0.064-inch (1.62-mm) minimum thickness, for use in galvanized steel ducts.
 - 2. The above requirements may be reduced to 20-gage for round dampers installed in round ducts.
- D. Blades: Multiple-blade; single-blade if duct dimension is 12-inch or less in the direction perpendicular to damper axis. Parallel or opposed-blade design (contractor's choice, unless a specific type is indicated). Stiffen damper blades for stability.
 - 1. Galvanized-steel, 16-gage or 0.064-inch (1.62 mm) thick, for use in galvanized steel ducts.
 - 2. The above requirements may be reduced to 20-gage for round dampers installed in round ducts.
- E. Blade Axles: Galvanized steel, aluminum, or stainless steel, as required to match blade material. Dampers shall have axles full length of damper blades, and bearings at both ends of operating shaft.

- F. Bearings: Oil-impregnated bronze, molded synthetic, and stainless-steel sleeve-type are acceptable.
- G. Tie Bars and Brackets: Galvanized steel or aluminum.
- H. Jackshaft:
 1. Size: 1-inch (25-mm) diameter.
 2. Material: Galvanized-steel pipe rotating within pipe-bearing assembly mounted on supports at each mullion and at each end of multiple-damper assemblies.
 3. Length and Number of Mountings: As required to connect linkage of each damper in multiple-damper assembly.
- I. Damper Hardware:
 1. Zinc-plated, die-cast core with dial and handle made of 3/32-inch- (2.4-mm-) thick zinc-plated steel, and a ¼-inch (19-mm) hexagon locking nut.
 2. Include center hole to suit damper operating-rod size.
 3. Include elevated platform for insulated duct mounting.

2.4 AUTOMATIC CONTROL DAMPERS

- A. Refer to specification section 230900 "Control Systems".

2.5 FIRE DAMPERS

- A. **Type: Dynamic; rated and labeled according to UL 555. Label according to UL 555C if used in a rated ceiling application.**
- B. **Closing rating in ducts up to 4-inch wg (1-kPa) static pressure class and 2000-fpm (10-m/s) velocity.**
- C. **Fire Rating: 1½ hours.**
- D. **Frame: SMACNA Type B; fabricated with roll-formed, 20-gage galvanized steel; with mitered and interlocking corners.**
- E. **Mounting Orientation: Vertical or horizontal as indicated.**
- F. **Blades: Roll-formed, interlocking, galvanized sheet steel.**
- G. **Horizontal Dampers: Include blade lock and stainless-steel negator closure spring.**
- H. **Single-use Fusible Link: Replaceable, 165°F (74°C) rated, fusible links.**
- I. **Mounting Sleeve: Factory-supplied, factory or field-installed, galvanized sheet steel sleeve; length as indicated. Include factory-supplied, field-installed two-piece "picture-frame" mounting angles with pre-punched fastener holes.**

2.6 TURNING VANES

- A. All turning vanes, where required, shall be single-thickness type, 2-inch (50-mm) radius, 1½-inch (38-mm) spacing, at least 24-gauge thickness, and curved through an arc

matching the change of direction (i.e., a vane curved through 90-degrees for a 90-degree elbow). Construct of material matching that of the adjacent duct (i.e., galvanized steel turning vanes in a galvanized steel duct, stainless steel turning vanes in a stainless steel duct, etc.).

- B. Where two or more changes of direction occur with less than four duct widths (measured in the plane of the change of direction) between each elbow, each turning vane shall also include a straight trailing edge extension of 1-inch (25 mm). At contractor's option, all turning vanes may include this straight trailing edge extension even if not required.
- C. Include vane rails or runners for attachment of vane blades to duct.
- D. Either contractor-fabricated or factory-manufactured turning vanes meeting these specifications will be acceptable.

2.7 DUCT-MOUNTED ACCESS DOORS

- A. Duct-Mounted Access Doors: Factory-manufactured doors, airtight and suitable for duct pressure class.
- B. Door: Double wall, rectangular, galvanized sheet metal with insulation fill and thickness as indicated for duct pressure class.
- C. Insulation: 1-inch (25-mm-) thick, fibrous-glass or polystyrene-foam board.
- D. Hinges and Latches: 1-by-1-inch (25-by-25-mm) butt or piano hinge and cam latches.
- E. Frame: Galvanized sheet steel, with bend-over tabs and foam gaskets. Seal around frame attachment to duct and door to frame with neoprene or foam rubber.
- F. Number of Hinges and Locks: Two hinges, or continuous piano hinge, and two sash locks.
- G. Size: 18 by 10-inches (460 by 250 mm) unless noted otherwise

2.8 FLEXIBLE CONNECTORS

- A. Materials: Flame-retardant or noncombustible fabrics.
- B. Coatings and Adhesives: Comply with UL 181, Class 1.
- C. Metal-Edged Connectors: Factory fabricated with a fabric strip 5³/₄-inches (146 mm) wide attached to 2 strips of 2³/₄-inch- (70-mm-) wide, 0.028-inch- (0.7-mm-) thick, galvanized sheet steel or 0.032-inch- (0.8-mm-) thick aluminum sheets. Provide metal compatible with connected ducts.
- D. Fabric: Glass fabric double-coated with neoprene or polychloroprene. Fabric layers shall be shielded with metal on both sides at the seam, attached with a mechanical metal-to-fabric bond.
 - 1. Minimum Weight: 26 oz./sq. yd. (880 g/sq. m).

2. Tensile Strength: 480 lbf/inch (84 N/mm) in the warp and 360 lbf/inch (63 N/mm) in the filling.
3. Service Temperature: Minus 40 to plus 200°F (Minus 40 to plus 93°C).
4. Insulated Service: Flexible ductwork connections shall be constructed of two layers of fabric as specified above, encapsulating 1-inch nominal thickness of R-4.2 fiberglass insulation. Required if the adjacent ductwork is specified to be insulated or internally lined.

2.9 DUCT ACCESSORY HARDWARE

- A. Instrument Test Holes: Cast iron or cast aluminum to suit duct material, including screw cap and gasket. Size to allow insertion of pitot tube and other testing instruments and of length to suit duct-insulation thickness.
- B. Adhesives: High strength, quick setting, neoprene based, waterproof, and resistant to gasoline and grease.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install duct accessories according to applicable details in SMACNA's "HVAC Duct Construction Standards – Metal and Flexible."
- B. Install duct accessories of materials suited to duct materials; use galvanized-steel accessories in galvanized-steel ducts.
- C. Install volume dampers at points on supply and exhaust systems where branches extend from larger ducts.
 1. Locate dampers at least two duct diameters from fittings and as far away as possible from outlets.
 2. Install steel volume dampers in steel ducts.
- D. Set dampers to fully open position before testing, adjusting, and balancing.
- E. Install test holes at fan inlets and outlets and elsewhere as indicated.
- F. *Install fire dampers according to UL listing.***
- G. Install duct access doors on sides of ducts to allow for inspecting, adjusting, and maintaining accessories and equipment at the following locations:
 1. Adjacent to and close enough to fire dampers, to reset or reinstall fusible links.
 2. Elsewhere as indicated.
- H. Install access doors with swing against duct static pressure.
- I. Label access doors according to Division 23 Section "Basic Mechanical Materials and Methods" to indicate the purpose of access door.

- J. Install flexible connectors to connect ducts to equipment using metal-edged connections or flanges.
- K. For fans developing static pressures of 5-inch wg (1250 Pa) and more, cover flexible connectors with loaded vinyl sheet held in place with metal straps.
- L. Install duct test holes where required for testing and balancing purposes.

3.2 FIELD QUALITY CONTROL

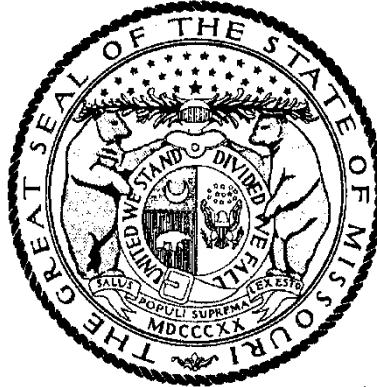
- A. Operate dampers to verify full range of movement.
- B. Inspect locations of access doors and verify that purpose of access door can be performed.
- C. Operate fire dampers to verify full range of movement and verify that proper heat-response device is installed.
- D. Inspect turning vanes for proper and secure installation.

END OF SECTION 23 3300

Missouri

Division of Labor Standards

WAGE AND HOUR SECTION



MICHAEL L. PARSON, Governor

Annual Wage Order No. 29

Section 010
BOONE COUNTY

In accordance with Section 290.262 RSMo 2000, within thirty (30) days after a certified copy of this Annual Wage Order has been filed with the Secretary of State as indicated below, any person who may be affected by this Annual Wage Order may object by filing an objection in triplicate with the Labor and Industrial Relations Commission, P.O. Box 599, Jefferson City, MO 65102-0599. Such objections must set forth in writing the specific grounds of objection. Each objection shall certify that a copy has been furnished to the Division of Labor Standards, P.O. Box 449, Jefferson City, MO 65102-0449 pursuant to 8 CSR 20-5.010(1). A certified copy of the Annual Wage Order has been filed with the Secretary of State of Missouri.

Original Signed by _____

Todd Smith, Director
Division of Labor Standards

Filed With Secretary of State: _____ **March 10, 2022**

Last Date Objections May Be Filed: **April 11, 2022**

Prepared by Missouri Department of Labor and Industrial Relations

OCCUPATIONAL TITLE	**Prevailing Hourly Rate
Asbestos Worker	\$58.66
Boilermaker	\$30.87*
Bricklayer	\$51.43
Carpenter	\$48.35
Lather	
Linoleum Layer	
Millwright	
Pile Driver	
Cement Mason	\$41.91
Plasterer	
Communications Technician	\$55.88
Electrician (Inside Wireman)	\$55.87
Electrician Outside Lineman	\$75.58
Lineman Operator	
Lineman - Tree Trimmer	
Groundman	
Groundman - Tree Trimmer	
Elevator Constructor	\$30.87*
Glazier	\$47.32
Ironworker	\$62.10
Laborer	\$41.12
General Laborer	
First Semi-Skilled	
Second Semi-Skilled	
Mason	\$48.56
Marble Mason	
Marble Finisher	
Terrazzo Worker	
Terrazzo Finisher	
Tile Setter	
Tile Finisher	
Operating Engineer	\$60.81
Group I	
Group II	
Group III	
Group III-A	
Group IV	
Group V	
Painter	\$37.40
Plumber	\$67.36
Pipe Fitter	
Roofer	\$52.11
Sheet Metal Worker	\$53.28
Sprinkler Fitter	\$62.30
Truck Driver	\$30.87*
Truck Control Service Driver	
Group I	
Group II	
Group III	
Group IV	

*The Division of Labor Standards received fewer than 1,000 reportable hours for this occupational title. The public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center.

**The Prevailing Hourly Rate includes any applicable fringe benefit amounts for each occupational title as defined in Section 290.210 RSMo.

Heavy Construction Rates for
BOONE County

OCCUPATIONAL TITLE	**Prevailing Hourly Rate
Carpenter	\$51.63
Millwright	
Pile Driver	
Electrician (Outside Lineman)	\$75.58
Lineman Operator	
Lineman - Tree Trimmer	
Groundman	
Groundman - Tree Trimmer	
Laborer	\$46.46
General Laborer	
Skilled Laborer	
Operating Engineer	\$58.48
Group I	
Group II	
Group III	
Group IV	
Truck Driver	\$30.87*
Truck Control Service Driver	
Group I	
Group II	
Group III	
Group IV	

Use Heavy Construction Rates on Highway and Heavy construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(3).

Use Building Construction Rates on Building construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(2).

If a worker is performing work on a heavy construction project within an occupational title that is not listed on the Heavy Construction Rate Sheet, use the rate for that occupational title as shown on the Building Construction Rate Sheet.

*The Division of Labor Standards received fewer than 1,000 reportable hours for this occupational title. The public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center.

**The Prevailing Hourly Rate includes any applicable fringe benefit amounts for each occupational title as defined in Section 290.210 RSMo.

OVERTIME and HOLIDAYS

OVERTIME

For all work performed on a Sunday or a holiday, not less than twice (2x) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work.

For all overtime work performed, not less than one and one-half (1½) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work or contractual obligation. For purposes of this subdivision, "**overtime work**" shall include work that exceeds ten hours in one day and work in excess of forty hours in one calendar week; and

A thirty-minute lunch period on each calendar day shall be allowed for each worker on a public works project, provided that such time shall not be considered as time worked.

HOLIDAYS

January first;
The last Monday in May;
July fourth;
The first Monday in September;
November eleventh;
The fourth Thursday in November; and
December twenty-fifth;

If any holiday falls on a Sunday, the following Monday shall be considered a holiday.

CODE REVIEW INFORMATION

FACILITY NAME AND ADDRESS:
UNIVERSITY OF MISSOURI PHYSICIANS BUILDING
1020 HTT STREET
COLUMBIA, MO 65212

TYPE OF CONSTRUCTION:
RENOVATION OF EXISTING FACILITY

AUTHORITY HAVING JURISDICTION:
UNIVERSITY OF MISSOURI SYSTEM

CITY, COUNTY, STATE:
CITY OF COLUMBIA
BOONE COUNTY
STATE OF MISSOURI

ARCHITECT:
bcdsgroup
12101 W 110th STREET, SUITE 100
OVERLAND PARK, KS 66210

APPLICABLE CODES/REGULATIONS:
2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 EXISTING BUILDING CODE (FOR LEVEL 1 & LEVEL 2 ALTERATION ONLY WITH PRE-APPROVAL FROM THE AHJ)
2021 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL FUEL GAS CODE
2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
NATIONAL ELECTRIC CODE/NFPA 70 - 2020
NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS - 2019
NFPA 101 LIFE SAFETY CODE - 2012
NFPA 99 STANDARD FOR HEALTH CARE FACILITIES - 2012
NFPA 90A INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS - 2018
NFPA 75 STANDARD FOR THE FIRE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT - 2017
NFPA 72 NATIONAL FIRE ALARM CODE - 2019
NFPA 518 STANDARD FOR FIRE PROTECTION DURING WELDING, CUTTING AND OTHER HOT WORK - 2019
NFPA 65 STANDARD FOR THE PROTECTION OF LABORATORIES USING CHEMICAL - 2019
NFPA 20 STANDARD FOR THE INSTALLATION OF STATIONARY FIRE PUMPS FOR FIRE PROTECTION - 2019
NFPA 13 INSTALLATION OF FIRE SPRINKLER SYSTEMS - 2019
ASHRAE 62.1 - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY - 2019
ASHRAE 90.1 ENERGY STANDARD FOR BUILDINGS - 2019
ASHRAE 170 - VENTILATION OF HEALTH CARE FACILITIES - 2017
ASME A17.1 - SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER STATE OF MISSOURI) - 2011
AMERICANS WITH DISABILITIES ACT - STANDARD FOR ACCESSIBLE DESIGN 2010
FACILITY GUIDELINES INSTITUTE - 2018

FIRE SUPPRESSION:
FULLY SPRINKLED

ACTIVE FIRE SAFETY SYSTEMS:
EXISTING BUILDING IS FULLY SPRINKLED

OCCUPANCY LOAD:
B BUSINESS AREA: 2,972 SF / 100 SF PER PERSON = 29.7
TOTAL OCCUPANT LOAD: 30 OCCUPANTS

EGRESS WIDTH:
30 OCCUPANTS X 2' = 6'

GENERAL BUILDING DATA (EXISTING):
GROUND FLOOR AREA OF WORK: 2,972 SF RENOVATION

STRUCTURAL FIRE PROTECTION:	EXISTING:
INTERIOR BEARING WALLS	NA
INTERIOR NON-BEARING WALLS	NA
EXTERIOR NON-BEARING WALLS	NA
STRUCTURAL FRAME	1 HOUR
SHAFT ENCLOSURES	1 HOUR
FLOORS	1.5 HOUR
ROOF	NA
EXTERIOR OPENINGS	2 HOUR



CODE LEGEND

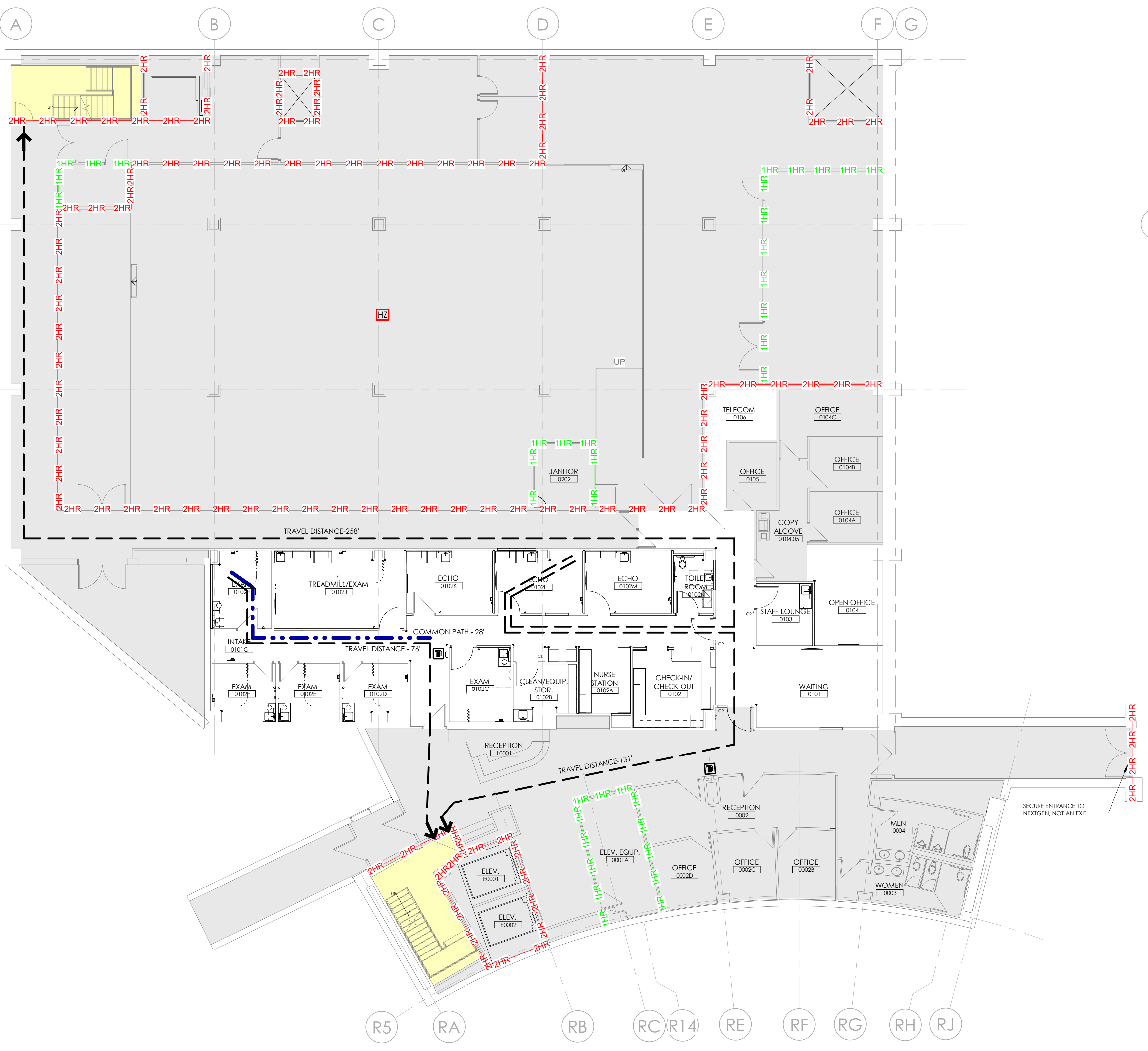
2 HOUR FIRE RATED	2HR
1 HOUR FIRE RATED	1HR
2 HOUR FIRE RATED BARRIER	2HRB
1 HOUR FIRE RATED BARRIER	1HRB
2 HOUR STAIR BARRIER	2HRSB
1 HOUR STAIR BARRIER	1HRSB
TRAVEL DISTANCE	T
FIRE EXTINGUISHER CABINET	T
EXTERIOR EXIT	←
EXIT STAIR	↓
MINUTE REARERD OPENING	# # M
HOMEOCIDE AREA	HO
HOMEOCIDE AREA (SHARED ROOMS)	HO*

STATEMENT OF ARCHITECTURAL SPECIAL INSTRUCTIONS

- THE ARCHITECTURAL DESIGN FOR THIS PROJECT IS BASED ON COMPLETION OF SPECIAL INSPECTIONS DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 1705 OF THE INTERNATIONAL BUILDING CODE. THE OWNER SHALL EMPLOY ONE OR MORE QUALIFIED SPECIAL INSPECTORS TO PROVIDE THE REQUIRED SPECIAL INSPECTIONS.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORT TO THE BUILDING OFFICIAL, OWNER, ARCHITECT AND ANY OTHER DESIGNATED PERSON.
- ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY OR BUILDING OFFICIAL.
- THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTIONS WAS TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE.
- THE FOLLOWING INSPECTIONS AND TESTS ARE REQUIRED WITH THE FREQUENCY (CONTINUOUS OR PERIODIC) AS DEFINED WITHIN THE REFERENCED SECTION OR STANDARD LISTED BELOW. THE GENERAL CONTRACTOR SHALL PROVIDE NOTIFICATION TO THE INSPECTOR WHEN ITEMS REQUIRING INSPECTION ARE READY TO BE INSPECTED AND PROVIDE ACCESS FOR THOSE INSPECTIONS.

GENERAL CODE NOTES PER MUHC PDCC

- ALL PENETRATION (NEW OR EXISTING) SHALL BE SEALED AT ALL TIMES, EXCEPT WHEN ACTIVELY WORKING WITH THE PENETRATION. EXISTING UNSEALED PENETRATIONS, ONCE ENCOUNTERED, SHALL BE SEALED IMMEDIATELY WITH THE APPROPRIATE FIRE/SMOKE STOPPING MATERIAL. COORDINATE THE SEALING METHOD, WHETHER TEMPORARY OR PERMANENT, WITH THE OWNER'S REPRESENTATIVE.
- EXISTING EXITS MUST REMAIN ACCESSIBLE. CLEAR PATHS OF TRAVEL TO EXITS MUST BE MAINTAINED WITHIN THE CONSTRUCTION LIMITS. CONTRACTOR IS TO COORDINATE WITH OWNER'S REPRESENTATIVE TO MAINTAIN PROPER EXIT SIGNAGE THROUGHOUT CONSTRUCTION.
- EACH SMOKE AND/OR FIRE RATED PARTITION SHALL BE STENCILED WITH 4 INCH LETTERS DIRECTLY ABOVE CEILING TILE SO AS TO IDENTIFY RATED CONSTRUCTION UPON LIFTING OF CEILING TILES. WALLS ARE TO HAVE STENCILED FIRE RATINGS AT EIGHT FOOT INTERVALS HORIZONTALLY.



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

INFECTION CONTROL LEGEND:



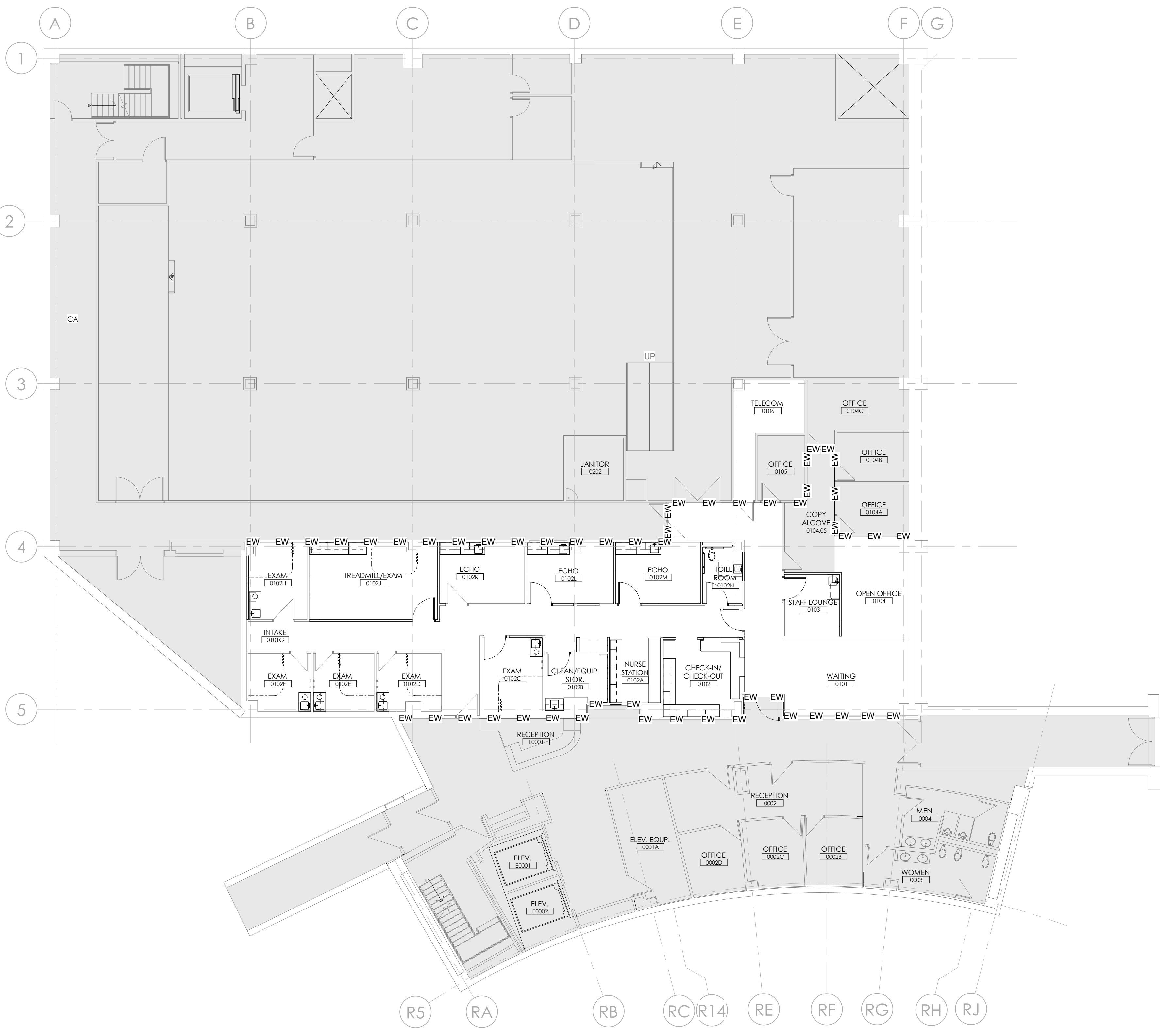
RB RB - INFECTION CONTROL BARRIER | RIGID BARRIER - MODULAR SYSTEM
THE BARRIER SHALL EXTEND FROM THE FLOOR TO THE CEILING AND SHALL BE CONSTRUCTED UTILIZING 3/8" METAL STUDS AND 1/2" OR 5/8" GYPSUM BOARD ON THE CLEAN SIDE OF THE STUDS. THE METAL STUDS SHALL BE PLACED AT NO LESS THAN 16" AND NO MORE THAN 24" O.C. THE SEAMS AND JOINTS ON THE GYPSUM BOARD MUST BE SEALED WITH AN APPROVED TAPE OR WITH JOINT COMPOUND. THE BARRIER SHALL BE ADEQUATELY SEALED AND MAINTAINED AT THE FLOOR AND CEILING CONNECTIONS THROUGHOUT THE PROJECT TO PREVENT THE MIGRATION OF DUST FROM THE WORK AREA INTO ADJACENT OCCUPIED AREAS. AIR FILTRATION EQUIPMENT EXHAUSTION HOSE MAY PASS THROUGH THE UPPER PORTION OF THE BARRIER. THE PENETRATION OPENING FOR THE EXHAUST/VENT HOSE SHALL BE ADEQUATELY SEALED AND MAINTAINED THROUGHOUT THE PROJECT. THE BARRIER SHALL BE EQUIPPED WITH A DOOR/FRAME ASSEMBLY. THE ASSEMBLY IS NOT REQUIRED TO BE FIRE RATED, HOWEVER, MUST BE HINGED SWING-TYPE, A MINIMUM WIDTH OF 36" AND BE SOLID WOOD OR METAL CLAD WITH A METAL FRAME. THE DOOR SHALL BE EQUIPPED WITH A COMMERCIAL GRADE LEVER HANDLE WITH A REMOVABLE KEY CORE. THE HARDWARE MUST BE POSITIVE LATCHING AND ACCEPT TO SUPPORT THE POLYETHYLENE. THE BARRIER SHALL BE ADEQUATELY SEALED AT THE DECK AND CEILING CONNECTIONS AND AT ALL PENETRATIONS IN THE BARRIER TO PREVENT THE MIGRATION OF DUST FROM THE WORK AREA INTO ADJACENT AREAS.

RB RB - INFECTION CONTROL BARRIER | RIGID BARRIER - DRYWALL
THE BARRIER SHALL BE ACTIVELY UTILIZING AN APPROVED MODULAR SYSTEM. THE SYSTEM SHALL BE COMPOSED OF ALUMINUM FRAMING EQUIPPED WITH WALL, CEILING AND FLOOR PANELS. THE SYSTEM SHALL BE EQUIPPED WITH MAGNETIC SEALS THAT ATTACH THE SYSTEM TO THE METAL DOOR FRAME ASSEMBLY. THE SYSTEM SHALL BE EQUIPPED WITH AN INTEGRATED DOOR PANEL AND AN INTEGRATED AIR MANAGEMENT PANEL TO ACCEPT A NEGATIVE AIR EXHAUST DISCHARGE HOSE AND BE EQUIPPED WITH A MAGNETIC NEGATIVE AIR INDICATOR. THE DOOR SHALL BE EQUIPPED WITH A COMMERCIAL GRADE LEVER HANDLE WITH A REMOVABLE KEY CORE. THE HARDWARE MUST BE POSITIVE LATCHING AND ACCEPT A BEST 7-PIN CORE, WHICH WILL BE PROVIDED AND INSTALLED BY UNIVERSITY OF MISSOURI HEALTHCARE.

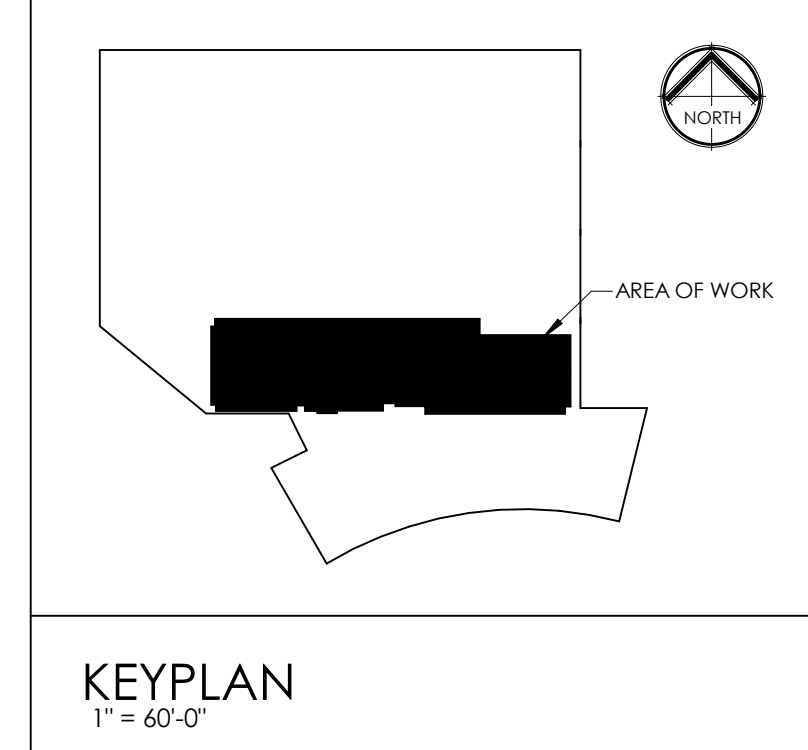
EW EW - INFECTION CONTROL BARRIER | EXISTING WALL
THE BARRIER SHALL BE ACTIVELY UTILIZING AN EXISTING WALL ASSEMBLY AS AN INFECTION CONTROL BARRIER. IF THE ASSEMBLY DOES NOT EXTEND TO THE DECK ABOVE, A BARRIER CONSTRUCTED OF 4-MIL FIRE RESISTANT POLYETHYLENE SHALL BE INSTALLED EXTENDING FROM THE CEILING/TOP OF WALL ASSEMBLY TO THE DECK ABOVE. IF NECESSARY, NON-COMBUSTIBLE COMPONENTS MAY BE UTILIZED TO SUPPORT THE POLYETHYLENE. THE BARRIER SHALL BE ADEQUATELY SEALED AT THE DECK, CEILING AND TOP OF WALL ASSEMBLY CONNECTIONS AND AT ALL PENETRATIONS IN THE BARRIER. THE POLYETHYLENE BARRIER SHALL BE MAINTAINED THROUGHOUT THE PROJECT TO PREVENT THE MIGRATION OF DUST FROM THE WORK AREA INTO ADJACENT OCCUPIED AREAS. DOOR OPENINGS IN THE ASSEMBLY, NOT BEING UTILIZED AS A CONTROLLED ACCESS POINT INTO THE PROJECT AREA, SHALL BE SEALED UTILIZING OPENING PROTECTIVES (OP-6/OP-4) CRITERIA.

OP-5: THE BARRIER SHALL BE CONSTRUCTED OF 6 OR 10-MIL FIRE-RESISTANT POLYETHYLENE. BE INSTALLED ON BOTH SIDES OF THE DOOR OPENING, AND COVER THE OPENING COMPLETELY. THE BARRIER SHALL BE ADEQUATELY SEALED AROUND THE PERIMETER OF THE DOOR OPENING AND MAINTAINED THROUGHOUT THE PROJECT TO PREVENT THE MIGRATION OF DUST FROM THE WORK AREA INTO ADJACENT OCCUPIED AREAS. THE DOOR SHALL REMAIN CLOSED THROUGHOUT THE PROJECT AND THERE SHALL BE NO PENETRATIONS IN THE BARRIER.

OP-6/8: THE BARRIER SHALL BE CONSTRUCTED OF 6 OR 10-MIL FIRE-RESISTANT POLYETHYLENE. BE INSTALLED ON BOTH SIDES OF THE DOOR OPENING, AND COVER THE OPENING COMPLETELY. THE BARRIER SHALL BE ADEQUATELY SEALED AROUND THE PERIMETER OF THE DOOR OPENING AND MAINTAINED THROUGHOUT THE PROJECT TO PREVENT THE MIGRATION OF DUST FROM THE WORK AREA INTO ADJACENT OCCUPIED AREAS. THE DOOR SHALL REMAIN CLOSED THROUGHOUT THE PROJECT AND THERE SHALL BE NO PENETRATIONS IN THE BARRIER.



2 GROUND FLOOR - INFECTION CONTROL
3/32" = 1'-0"



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MO Certificate of Authority Number
A-201007290

Project Team:
ROSS & BARUZZINI, INC.
6 SOUTH OLD ORCHARD | ST. LOUIS, MO
63119

Project Title:
University Physicians Medical Building - Ground Floor CHCC Clinic Renovation
University of Missouri, Columbia, Missouri



Issue Date: 08.29.2022
Date: 09.16.2022
Addendum #1

Drawn by: CG
bcdsg Project #: 12275.27
MU Project #: CP202091

G100
CODE PLAN + IC



bcDESIGN GROUP

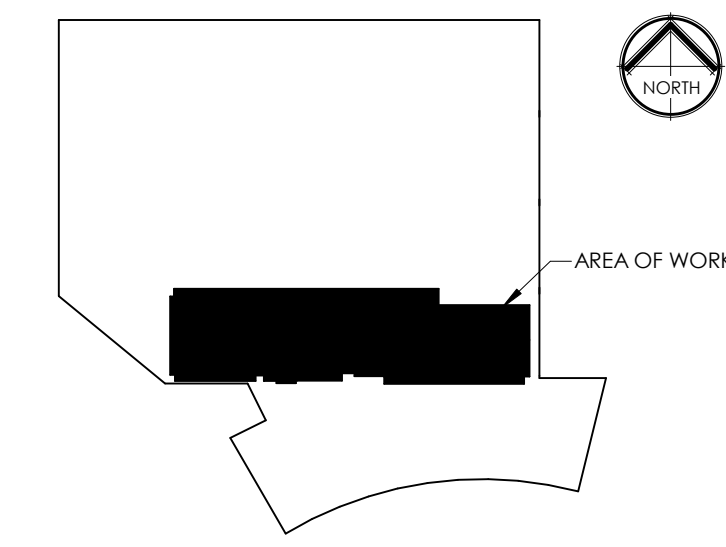
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MO Certificate of Authority Number
A-2011007290

Project Team:

ROSS & BARUZZINI, INC.
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63119



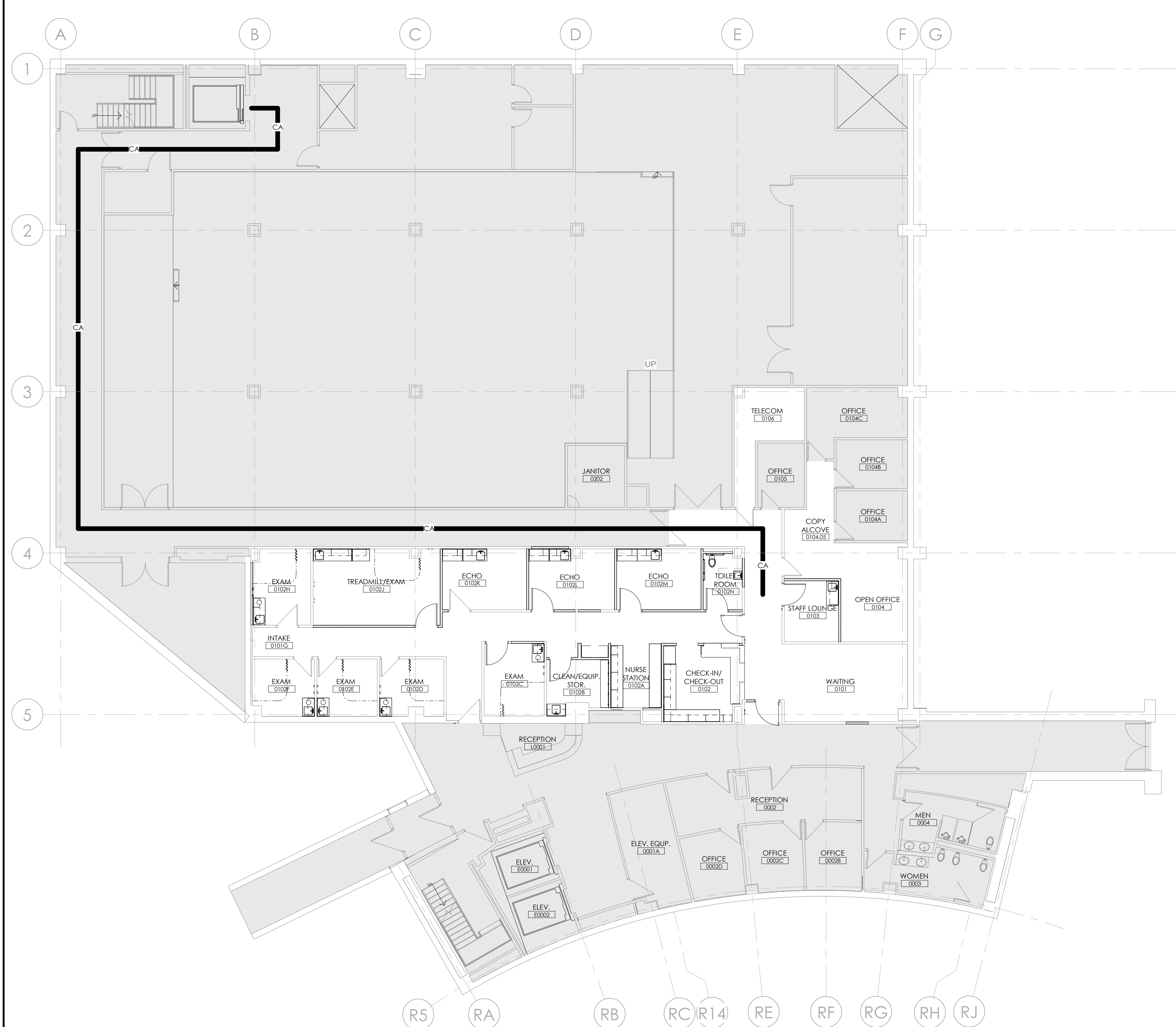
KEYPLAN
1" = 60'-0"

FLOOR PLAN LEGEND:

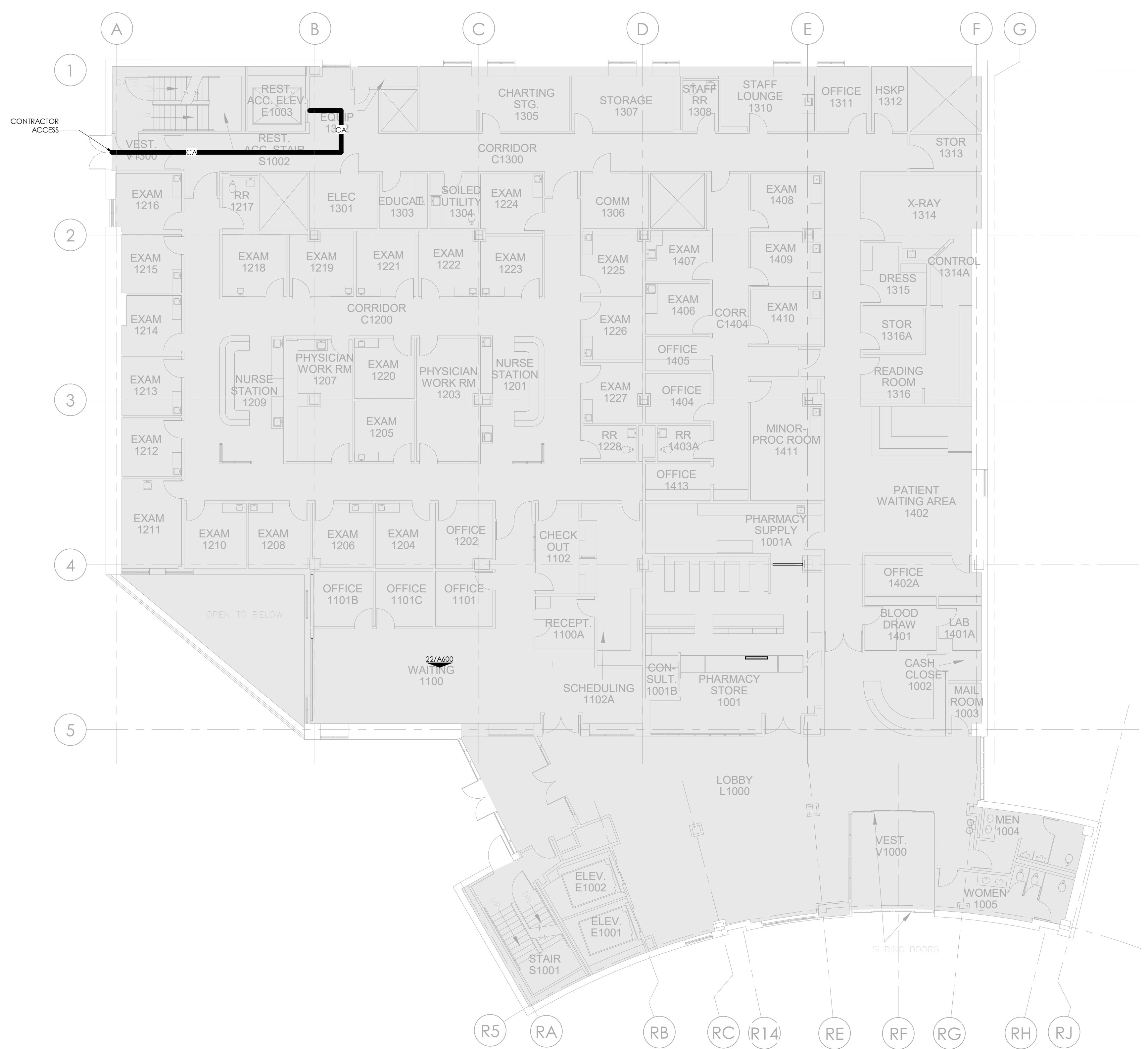
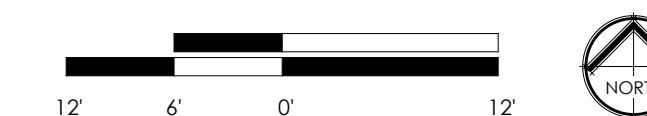
	NEW DOOR		DRAWING NUMBER DENOTES SIMILAR DRAWING
	EXISTING DOOR		ENLARGED DRAWING TAG
	NEW WALL		PLAN KEYNOTE
	EXISTING WALL		EQUIPMENT TAG
	CURTAIN TRACK		DOOR TAG
	ROOM NAME		PARTITION WALL TAG
	ELEVATION TAGS		NO WORK, U.N.O.
	BUILDING SECTION TAG		

GENERAL FLOOR PLAN NOTES

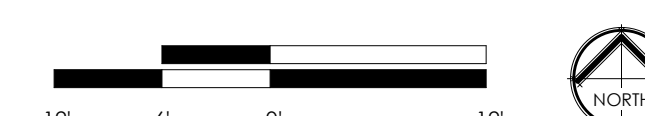
1. ALL NEW INTERIOR PARTITIONS ARE TO BE 'AIDN' UNLESS NOTED OTHERWISE, RE COVER
2. ALL INTERIOR DOORS TO BE 3'-8" x 7'-0" x 1-3/4" SOLID CORE WOOD DOORS PER SPEC, UNLESS NOTED OTHERWISE, RE 231A200 FOR TYPICAL FRAME DETAIL
3. ALL DIMENSIONS ARE TO FACE OF FINISHED WALL, GC TO NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK IN THE AFFECTED AREAS
4. RADIUS OUTSIDE CORNERS OF ALL COUNTERTOPS 1-1/2" TYPICAL
5. DIMENSIONS SHOWN IN BRACKETS ARE CRITICAL AND MUST BE MAINTAINED
6. INSTALL METAL STRAP BLOCKING AT ALL ITEMS SHOWN TO BE MOUNTED TO WALLS, INCLUDING BUT NOT LIMITED TO WALL STOPS, CASEWORK, & GRAB BARS. STRAPS SHALL EXTEND A MINIMUM OF 3 STUDS TYPICAL
7. ALL OFCI ITEMS LOCATIONS ARE TO BE COORDINATED WITH THE OWNER
8. FIELD VERIFY EXISTING INTERIOR WALLS GO TO DECK



3 GROUND FLOOR CONTRACTOR ACCESS



2 FIRST FLOOR CONTRACTOR ACCESS



Project Title:

University Physicians Medical Building - Ground Floor CHCC Clinic Renovation

University of Missouri, Columbia, Missouri



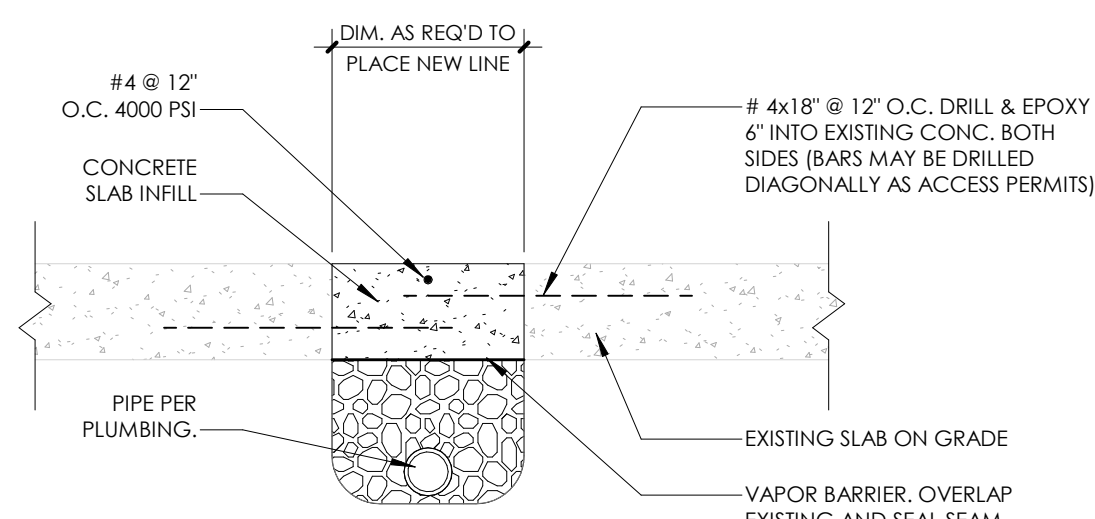
Issue Date: 08.29.2022
Date: 09.14.2022

Drawn by: Author

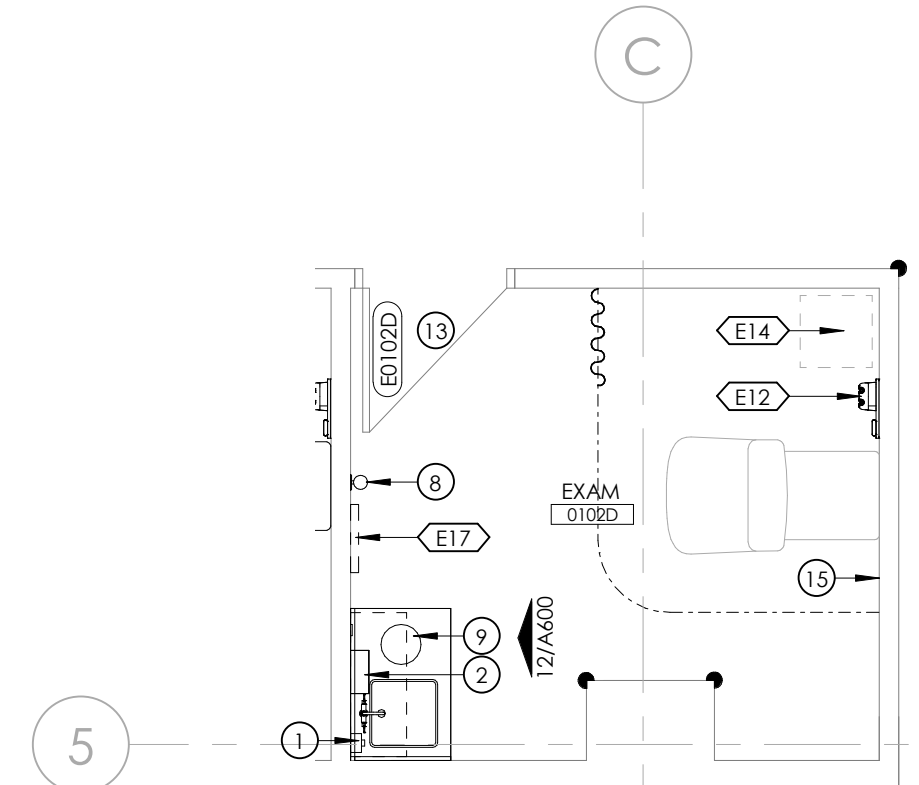
bcdg Project #: 12275.27
MU Project #: CP202091

G101

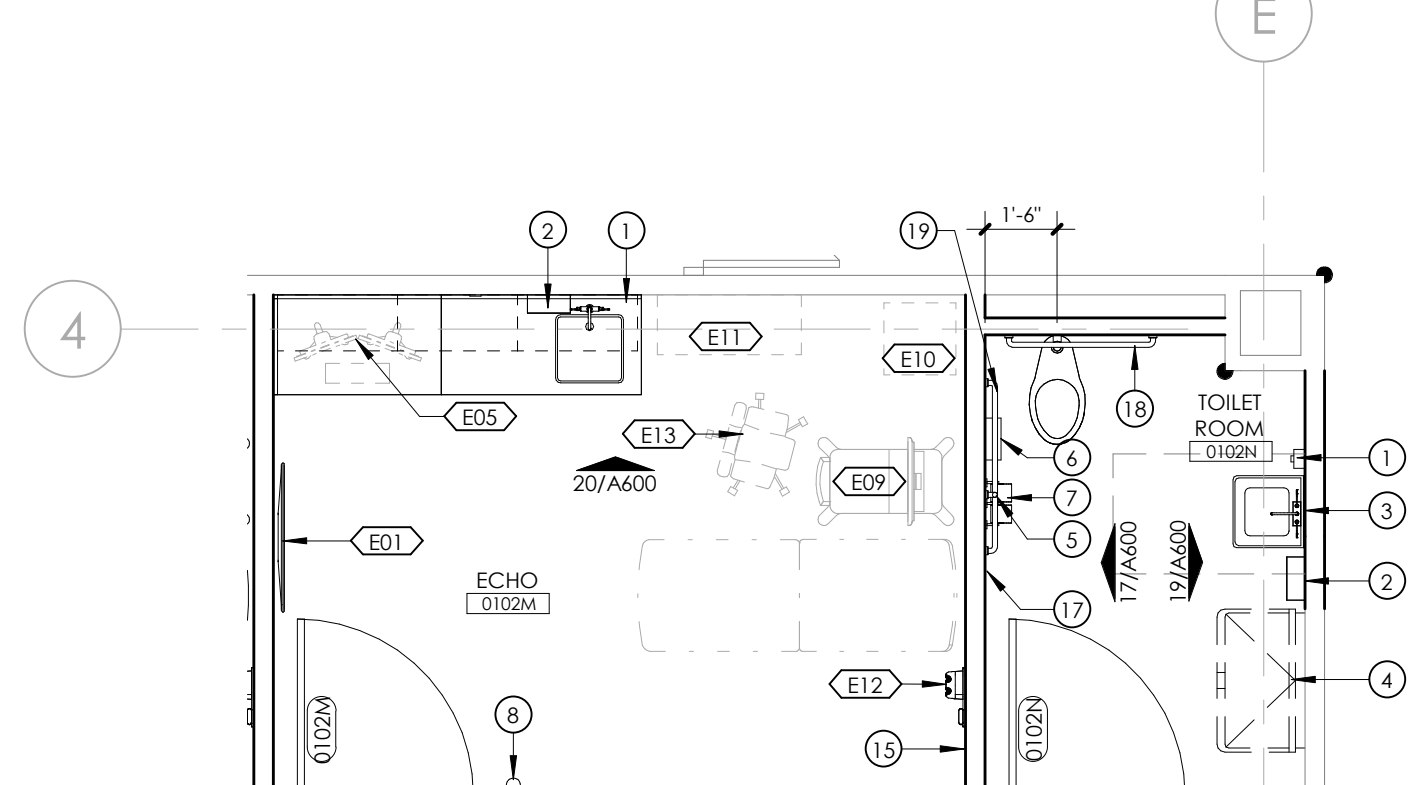
CONTRACTOR ACCESS



5 TYPICAL SLAB REPAIR
1/4" = 1'-0"



3 GROUND FLOOR PLAN - ENLARGED EXAM TYP.
1/4" = 1'-0"

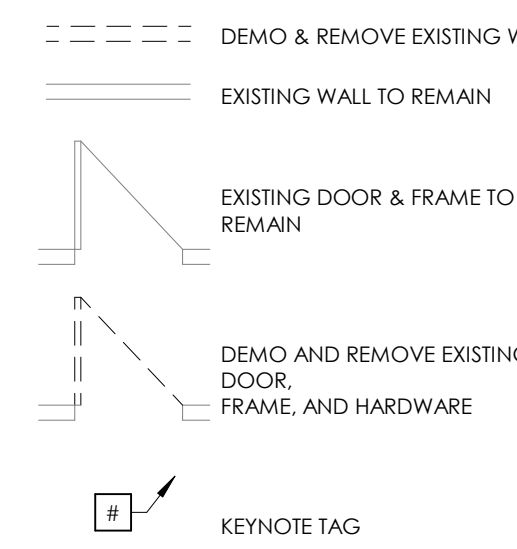


4 GROUND FLOOR PLAN - ENLARGED ECHO TYP.
1/4" = 1'-0"



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

DEMOLITION PLAN LEGEND



FLOOR/WALL/CEILING NOTES [F|W|C]

- FLOOR**
- F1 - REMOVE EXISTING FLOORING, BASE, GUE, ETC. TO SLAB. PATCH, PRIME, AND PREP SUB-FLOOR TO RECEIVE NEW FLOORING AS SCHEDULED.
 - F2 - EXISTING FLOOR TO REMAIN
 - F3 - SPECIAL CONDITION - REFER TO KEYNOTE
- WALL**
- W1 - REMOVE EXISTING WALL COVERINGS, REMOVE PAINT, ETC. PATCH, PRIME, AND PRIME WALL TO RECEIVE NEW FINISHES AS SCHEDULED.
 - W2 - EXISTING WALL TO REMAIN
 - W3 - SPECIAL CONDITION - REFER TO KEYNOTE
- CEILING**
- C1 - REMOVE EXISTING CEILING, HANGERS, ETC. TO BOTTOM OF STRUCTURE. EXERCISE EXTREME CAUTION AS TO NOT DISTURB SYSTEMS INTENDED TO REMAIN.
 - C2 - EXISTING CEILING TO REMAIN
 - C3 - SPECIAL CONDITION - REFER TO KEYNOTE

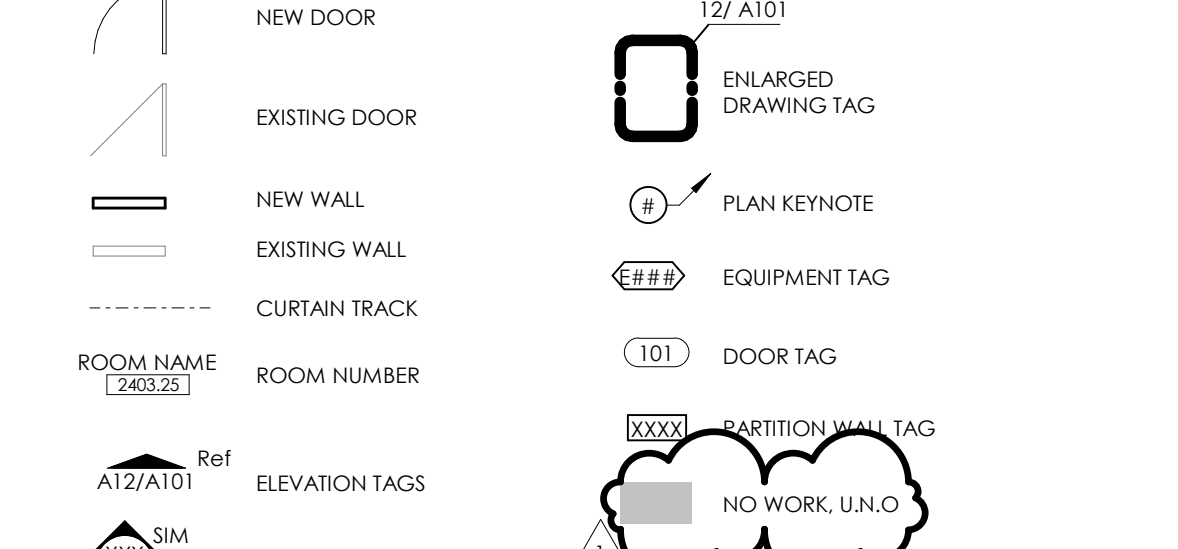
DEMOLITION KEYNOTES:

- 1 SAW CUT EXISTING CONCRETE SLAB FOR INSTALLATION OF NEW WASTE PIPING SERVING GROUND FLOOR PLUMBING FIXTURE. PATCH CONCRETE FLOOR TO MATCH EXISTING SURROUNDING SURFACES. RE: PLUMBING FOR EXACT LOCATIONS. RE: 5/A100 FOR INFILL DETAIL
- 2 DEMO CARPET TILE TO EXTENTS SHOWN
- 3 DEMO AND REMOVE CASEWORK INCLUDING BASE CABINETS, COUNTER TOP, AND UPPER CABINETS
- 4 DEMO AND REMOVE PLUMBING FIXTURES. RE: PLUMBING
- 5 LIGHTLY SAND TO PREP WALL FOR NEW PAINT
- 6 RE: RCP FOR DIMENSION OF EXTENT OF NEW CEILING

GENERAL DEMOLITION PLAN NOTES

- CONTRACTOR SHALL CONTACT PLANT OPERATIONS DAILY TO PROVIDE ACTIVITIES AND SHUTDOWN REPORTS. ALL SITE USE SHALL BE COORD. AND APPROVED IN ADVANCE BY OWNER.
- CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. REPORT ANY DISCREPANCIES TO ARCHITECT IN WRITING PRIOR TO BEGINNING WORK IN THE AFFECTED AREA.
- CONTRACTOR TO VERIFY ALL EXISTING BUILDING SYSTEMS CURRENTLY INSTALLED IN THE CONSTRUCTION AREA. ALL DEVICES TO REMAIN SHALL BE CHECKED AND IN WORKING CONDITION WHEN PROJECT IS COMPLETE.
- CONTRACTOR SHALL EMPLOY REASONABLE MEANS TO CONTAIN DUST, DEBRIS, AND NOISE DUE TO DEMOLITION AND NEW CONSTRUCTION. REFER TO SPEC.
- ALL WALL MOUNTED ITEMS, ETC., SHALL BE REMOVED & REINSTALLED AS INDICATED THROUGHOUT THE DRAWINGS OR TURNED OVER TO THE OWNER FOR SALVAGE (U.O.).
- CONTRACTOR SHALL PATCH TO MATCH SURROUNDING FINISHES. ANY AREAS DAMAGED AS A RESULT OF, OR CAUSED BY, THE WORK INDICATED THROUGHOUT THE CONTRACT DOCUMENTS.
- WHERE REMOVAL OF EXISTING WALL PARTITIONS, EQUIPMENT, ETC., DISRUPTS OR DISTURBS EXISTING ELECTRICAL, MECHANICAL, OR PLUMBING SERVICES TO AREAS NOT DESIGNATED AS CONSTRUCTION AREAS, CONTRACTOR SHALL PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO ENSURE UNINTERRUPTED SERVICE TO SAID AREAS. NOTE: NO SERVICE IS TO BE SHUT DOWN WITHOUT PRIOR APPROVAL BY OWNER.
- CONTRACTOR IS TO REMOVE COMPLETELY EXISTING CONSTRUCTION, AS SHOWN HEREIN, WHICH CONFLICTS WITH THE INTENT OF THE NEW CONSTRUCTION, U.N.O. OWNER WILL BE RESPONSIBLE FOR REMOVING AND STORING ITEMS SUCH AS FURNITURE, PLAQUES, ARTWORK, MOVEABLE EQUIPMENT, ETC.
- REFER TO MEP DRAWINGS FOR ADDITIONAL DEMOLITION WORK. PATCH & MATCH SURROUNDING MATERIALS WHERE ITEMS ARE REMOVED AT WALLS, CEILING AND FLOORS. MAINTAIN FIRE RATINGS WHERE DEMOLISHED ITEMS PENETRATED FIRE RATED WALLS AND FLOORS.
- REMOVE AND REPLACE CEILING TILES AS NECESSARY FOR DEMOLITION AND NEW CONSTRUCTION. REPLACE DAMAGED TILES AS REQUIRED.
- CONTRACTOR TO REMOVE, CLEAN AND STORE ALL PLUMBING FIXTURES SHOWN TO BE REMOVED. ALL FIXTURES TO BE TURNED OVER TO OWNER, U.N.O.

FLOOR PLAN LEGEND: TAG DESCRIPTION

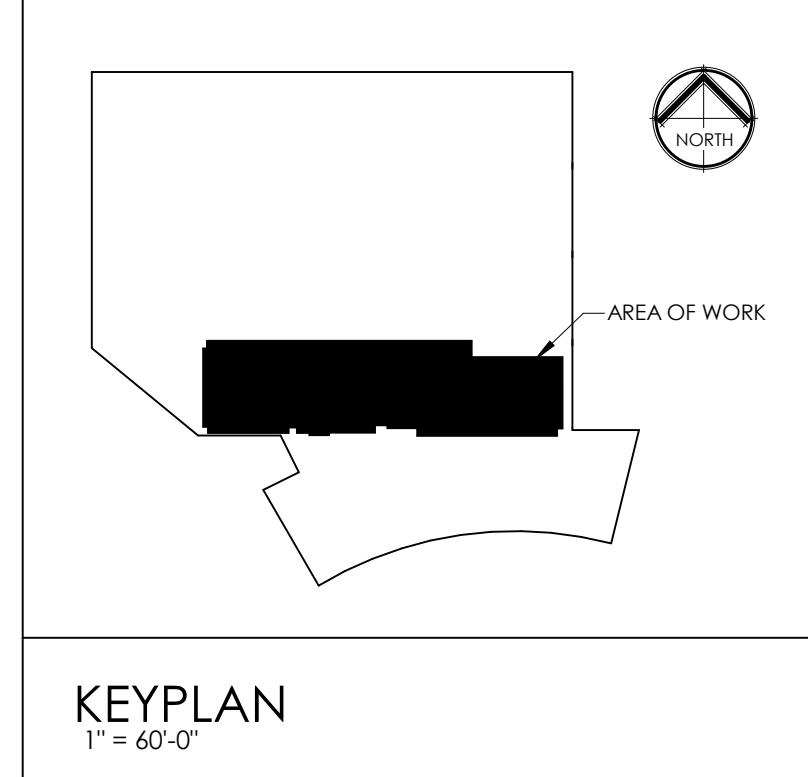


GENERAL FLOOR PLAN NOTES

- ALL NEW INTERIOR PARTITIONS ARE TO BE 'AIDN' UNLESS NOTED OTHERWISE. RE: COVER
- ALL INTERIOR DOORS TO BE 3'-8" x 7'-0" x 1-3/4" SOLID CORE WOOD DOORS PER SPEC. UNLESS NOTED OTHERWISE. RE: 20/A100 FOR TYPICAL FRAME DETAIL.
- ALL DIMENSIONS ARE TO FACE OF FINISHED WALL, C/F TO NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK IN THE AFFECTED AREA.
- RADIUS OUTSIDE CORNERS OF ALL COUNTERTOPS 1-1/2" TYPICAL.
- DIMENSIONS SHOWN IN BRACKETS ARE CRITICAL AND MUST BE MAINTAINED.
- INSTALL METAL STRAP BLOCKING AT ALL ITEMS SHOWN TO BE MOUNTED TO WALLS, INCLUDING BUT NOT LIMITED TO WALL STOPS, CASEWORK, & GRAB BARS. STRAPS SHALL EXTEND A MINIMUM OF 3 STUDS TYPICAL.
- ALL C/FI ITEMS LOCATIONS ARE TO BE COORDINATED WITH THE OWNER.
- FIELD VERIFY EXISTING INTERIOR WALLS GO TO DECK.

EQUIPMENT LIST:

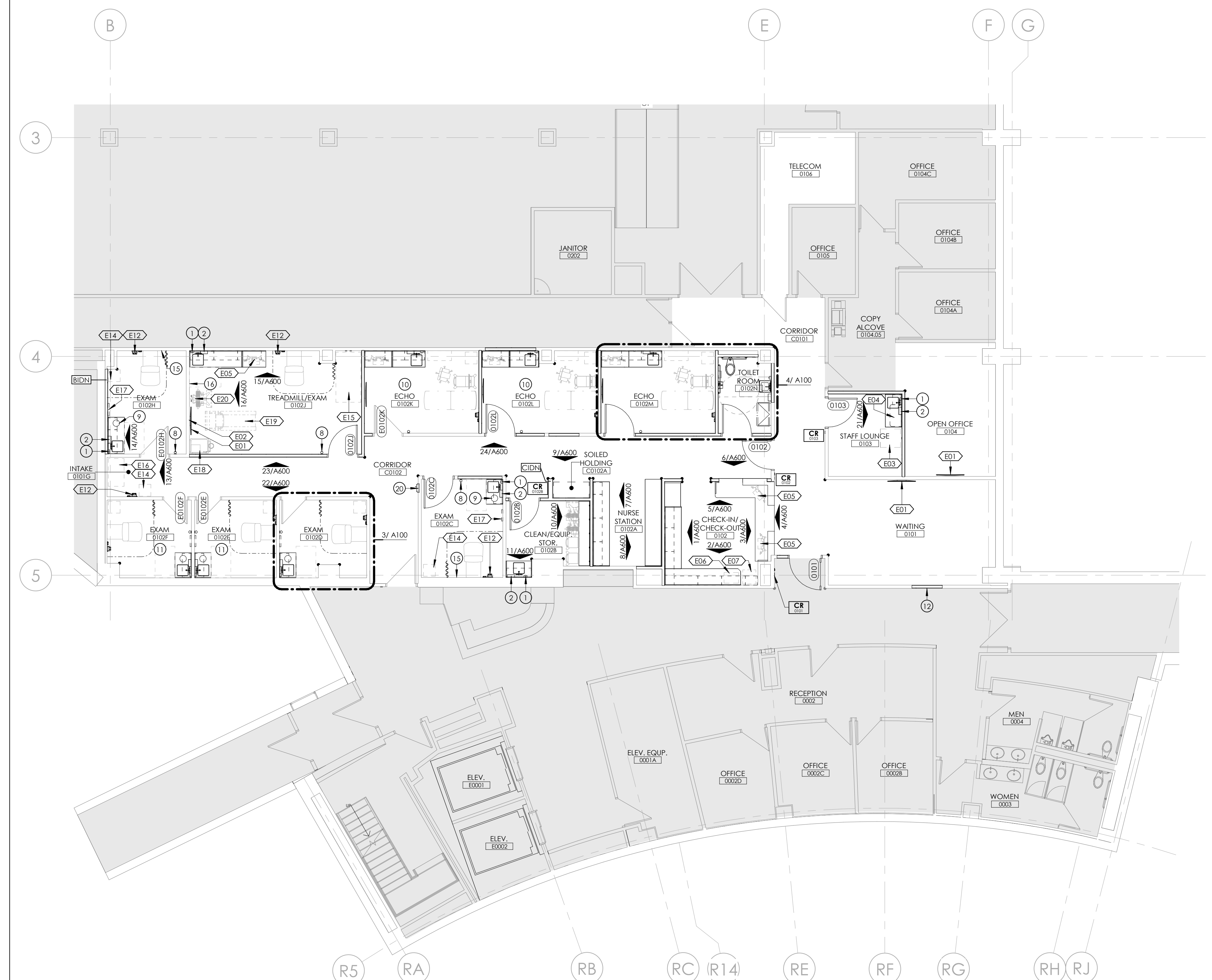
E#	ITEM	FURNISHED BY/INSTALLED BY
E01	TELEVISION W/ MOUNTING BRACKET	OFCI, OFCI
E02	NOT USED	
E03	REFRIGERATOR	OFCI
E04	MICROWAVE	OFCI
E05	WORKSTATION: DUAL MONITORS AND KEYBOARD	OFCI
E06	COUNTERTOP PRINTER	OFCI
E07	SHRED-IT	OFCI
E08	NOT USED	
E09	EKG MACHINE	OFCI
E10	LINEN HAMPER W/ LID	OFCI
E11	BOOKSHELF	OFCI
E12	WELCH-ALLYN	OFCI
E13	ERGONOMIC CHAIR	OFCI
E14	SCALE	OFCI
E15	WHEELCHAIR SCALE	OFCI
E16	INFANT SCALE	OFCI
E17	VS COMPUTER CHARTING STATION	OFCI
E18	CRASH CART	OFCI
E19	TREADMILL	OFCI
E20	TREADMILL COMPUTER	OFCI
E21	MOBILE VITAL MACHINES	OFCI
E22	MOBILE PEDESTALS	OFCI



KEYPLAN
1" = 60'-0"

FLOOR PLAN KEYNOTES:

- 1 SOAP DISPENSER, OFCI
- 2 PAPER TOWEL DISPENSER, OFCI
- 3 MIRROR, CFCI
- 4 DIAPER CHANGING STATION, CFCI
- 5 GRAB BARS 1", CFCI
- 6 FEMININE NAPKIN DISPOSAL, CFCI
- 7 TOILET PAPER DISPENSER, CFCI
- 8 GEL DISPENSER, OFCI
- 9 TRASH GRAMMET
- 10 REFER TO ECHO ROOM 0102H FOR TYPICAL ROOM NOTES, U.N.O. RE: 4/A100
- 11 REFER TO EXAM 0102A FOR TYPICAL ROOM NOTES, U.N.O. RE: 3/A100
- 12 INFILL WALL TO MATCH ADJACENT EXISTING WALL CONSTRUCTION
- 13 EXISTING DOOR TO RECEIVE NEW HARDWARE, RE: SPEC HARDWARE SET #2
- 14 NOT USED
- 15 PUSH FOR HELP, OFCI
- 16 CODE BLUE, OFCI
- 17 NURSE CALL, OFCI
- 18 GRAB BARS 36", CFCI
- 19 GRAB BARS 48", CFCI
- 20 SEMI-RECESSED FIRE EXTINGUISHER CABINET PER SPEC



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



bc DESIGN GROUP

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Project Team:

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63119

Project Title:
University Physicians Medical Building - Ground Floor CHCC Clinic Renovation
University of Missouri, Columbia, Missouri



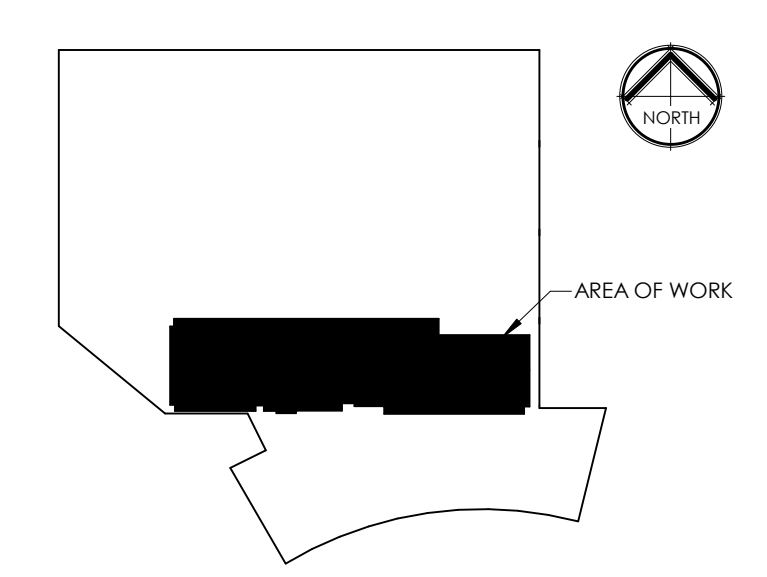
Issue Date: 08.29.2022
Issue #: 1
Addendum #1 09.16.2022

Drawn by: CG

bcdg Project #: 12275.27
MU Project #: CP202091

A100

FLOOR PLAN + DEMO PLAN

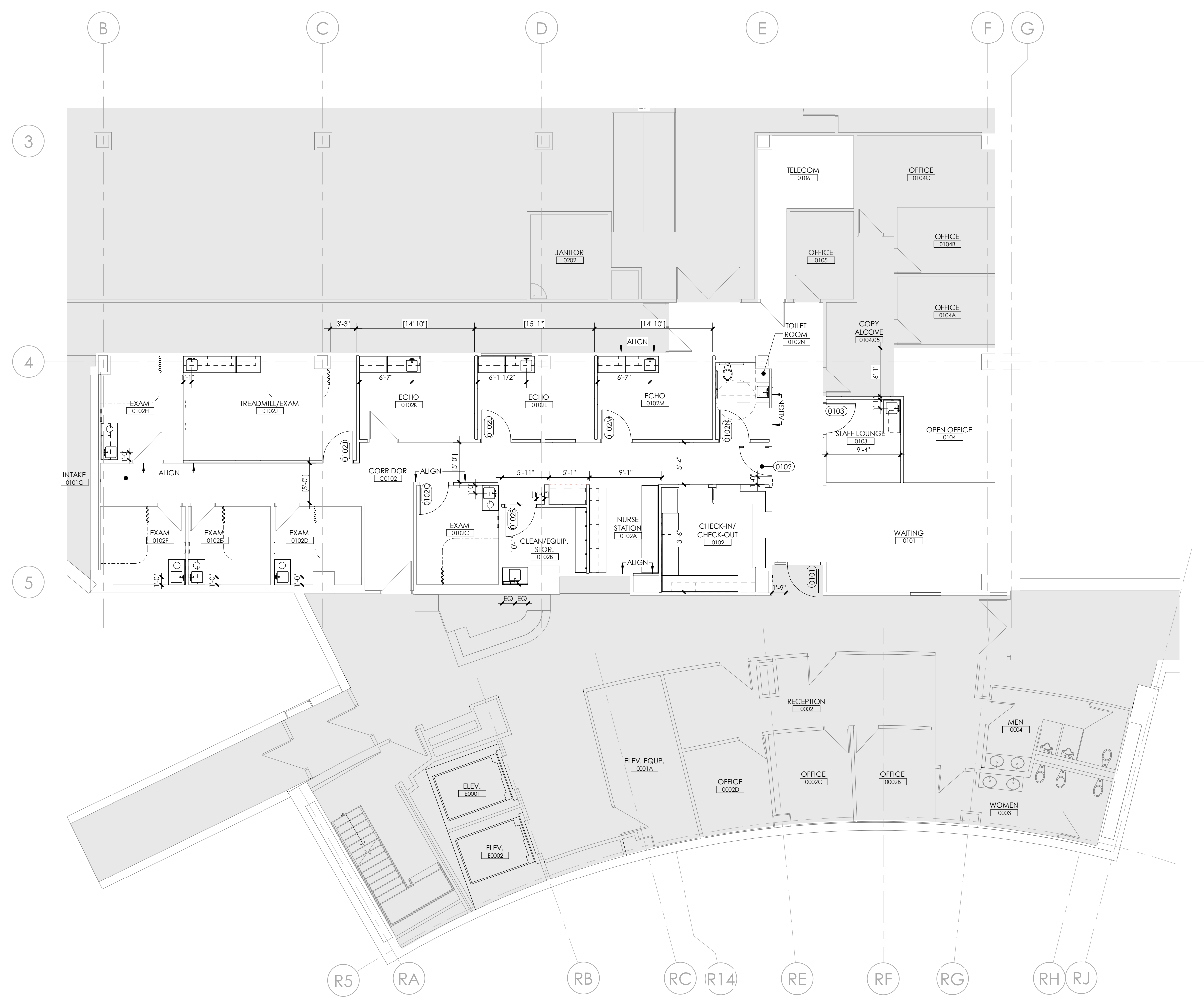


KEYPLAN
1" = 60'-0"

FLOOR PLAN LEGEND:

	NEW DOOR		ENLARGED DRAWING TAG
	EXISTING DOOR		PLAN KEYNOTE
	NEW WALL		EQUIPMENT TAG
	EXISTING WALL		DOOR TAG
	CURTAIN TRACK		PARTITION WALL TAG
	ROOM NAME		NO WORK, U.N.O.
	ROOM NUMBER		
	ELEVATION TAGS		
	BUILDING SECTION TAG		

- GENERAL FLOOR PLAN NOTES**
1. ALL NEW INTERIOR PARTITIONS ARE TO BE 'AIDN' UNLESS NOTED OTHERWISE. RE: COVER
 2. ALL INTERIOR DOORS TO BE 3'-8" x 7'-0" x 1-3/4" SOLID CORE WOOD DOORS PER SPEC, UNLESS NOTED OTHERWISE. RE: 23/A600 FOR TYPICAL FRAME DETAIL.
 3. ALL DIMENSIONS ARE TO FACE OF FINISHED WALL. GC TO NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK IN THE AFFECTED AREAS.
 4. RADIIUS OUTSIDE CORNERS OF ALL COUNTERTOPS 1-1/2" TYPICAL.
 5. DIMENSIONS SHOWN IN BRACKETS ARE CRITICAL AND MUST BE MAINTAINED.
 6. INSTALL METAL STRAP BLOCKING AT ALL ITEMS SHOWN TO BE MOUNTED TO WALLS, INCLUDING BUT NOT LIMITED TO WALL STOPS, CASEWORK, & GRAB BARS. STRAPS SHALL EXTEND A MINIMUM OF 3 STUDS, TYPICAL.
 7. ALL OFCI ITEMS LOCATIONS ARE TO BE COORDINATED WITH THE OWNER.
 8. FIELD VERIFY EXISTING INTERIOR WALLS GO TO DECK.



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



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Project Team:
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63119

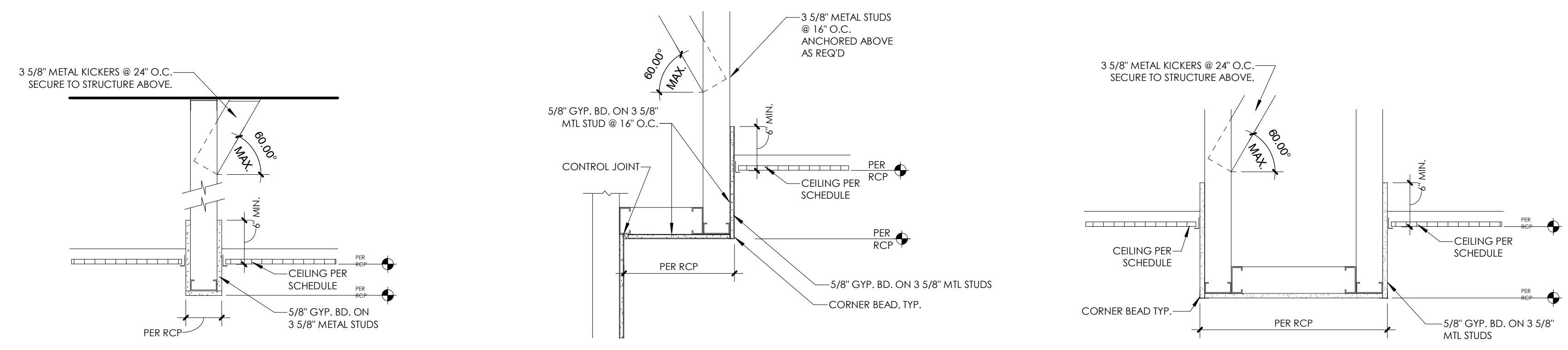
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University of Missouri, Columbia, Missouri



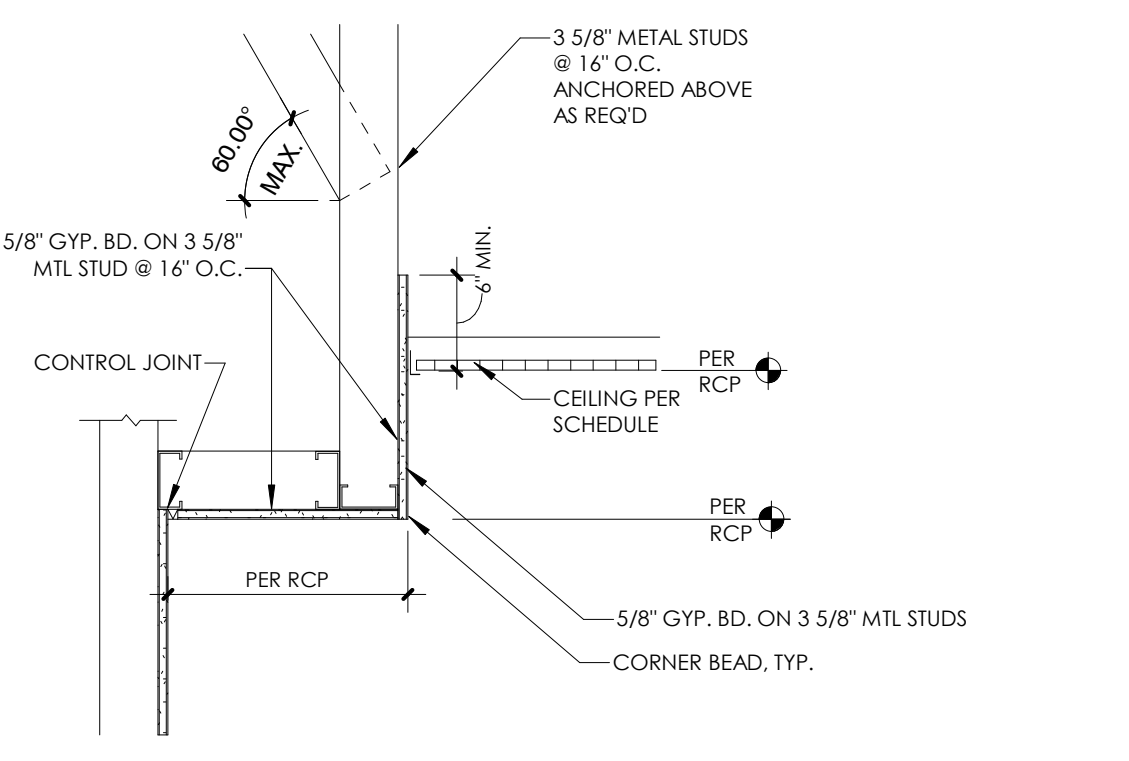
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Drawn by: Author
bcdg Project #: 12275.27
MU Project #: CP202091

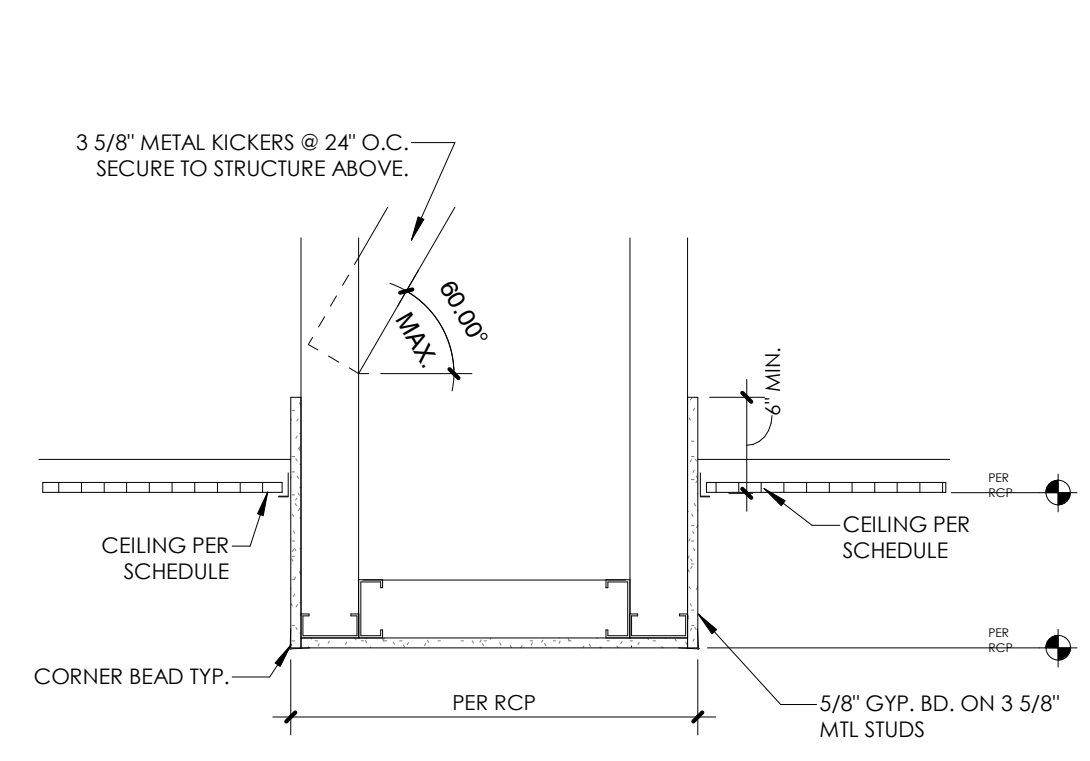
A101
GROUND FLOOR PLAN - DIMENSIONED
BID SET



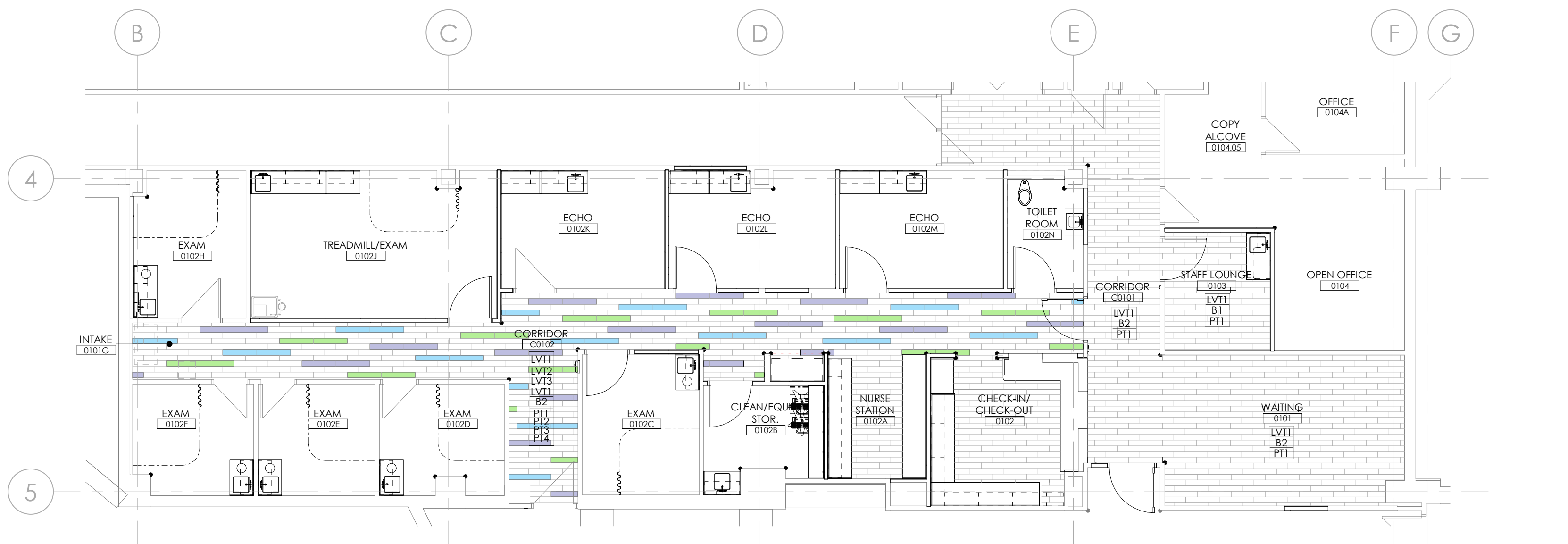
4 RCP SOFFIT
1" = 1'-0"



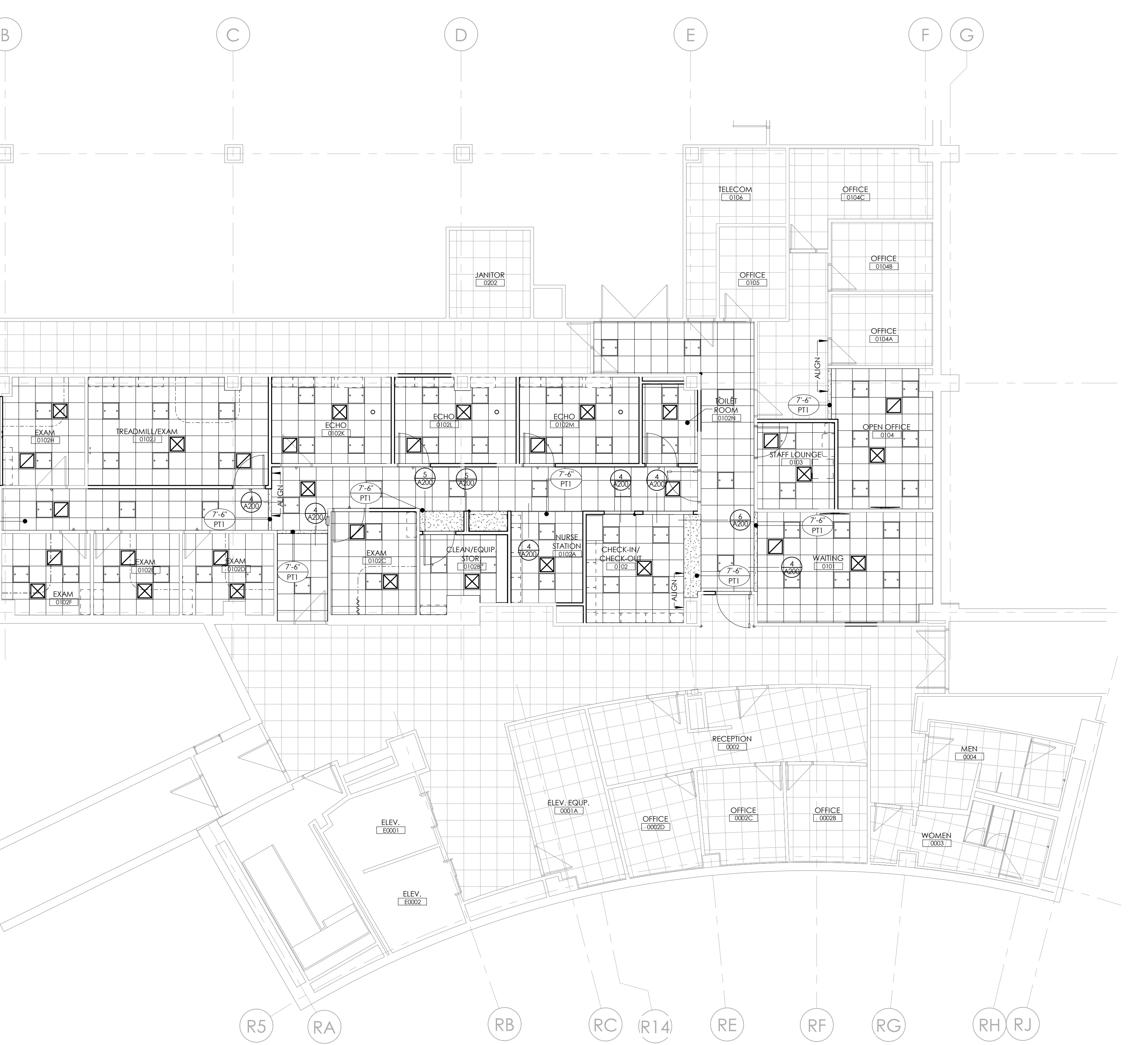
5 RCP SOFFIT AGAINST WALL
1" = 1'-0"



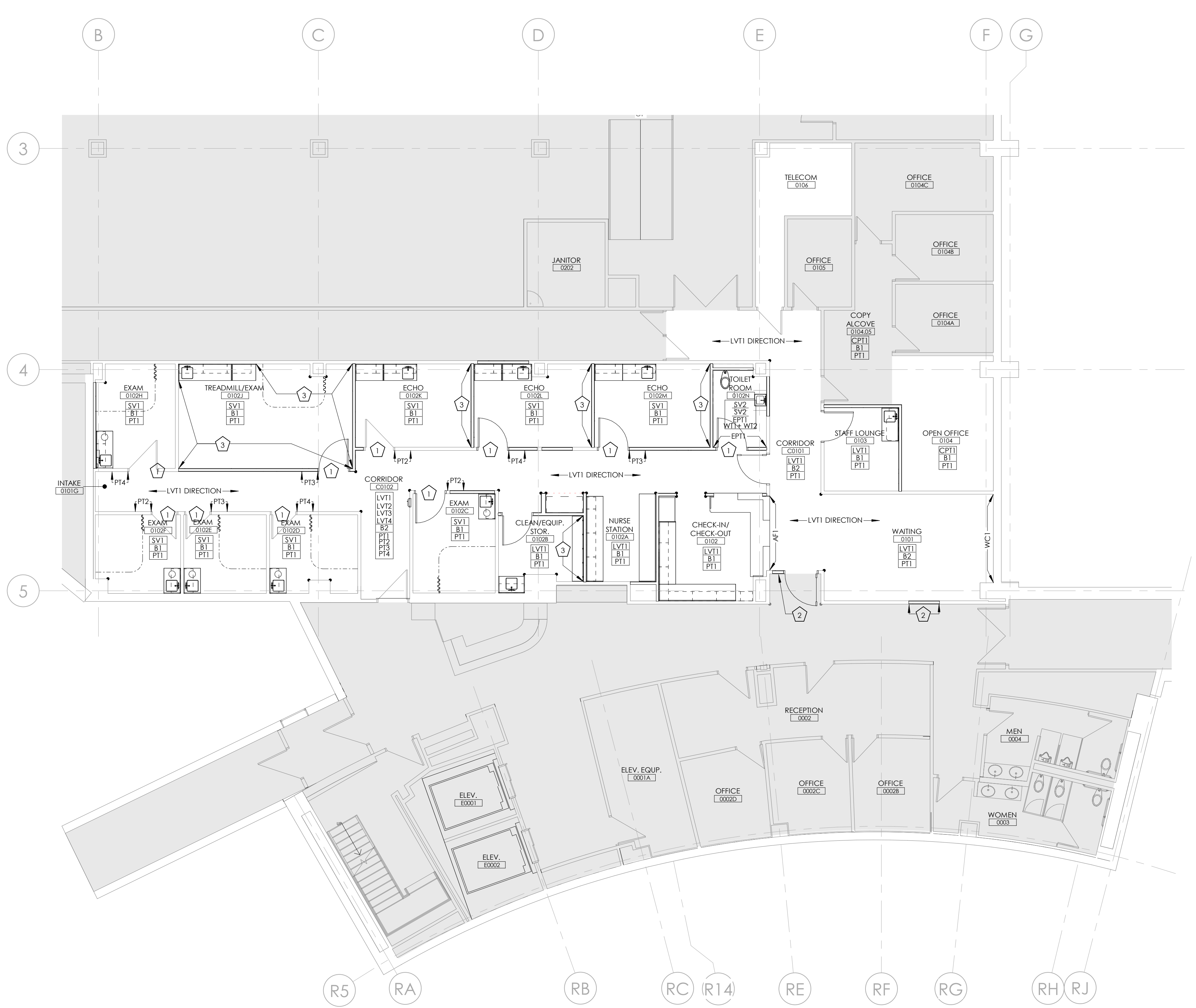
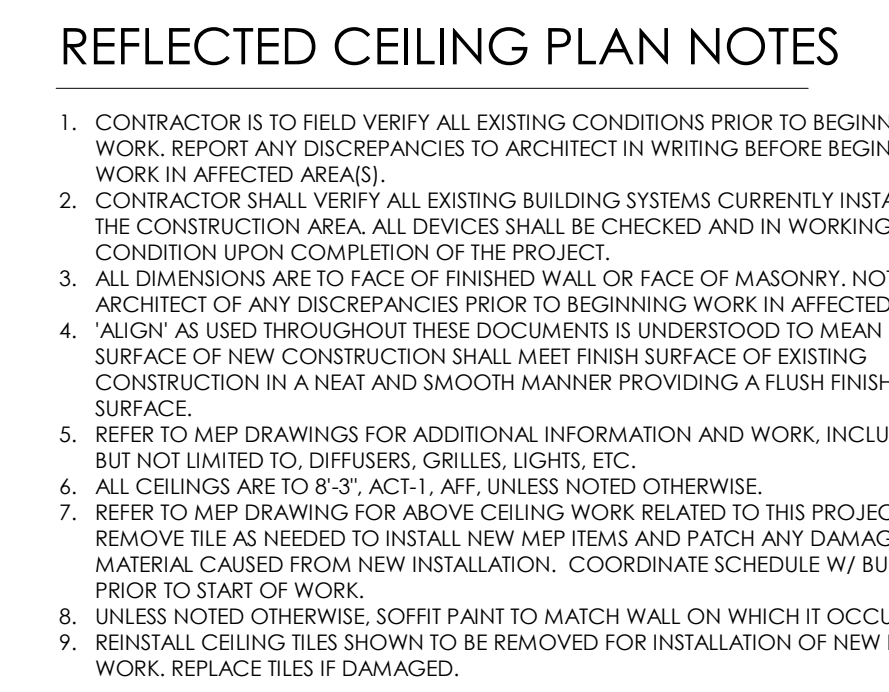
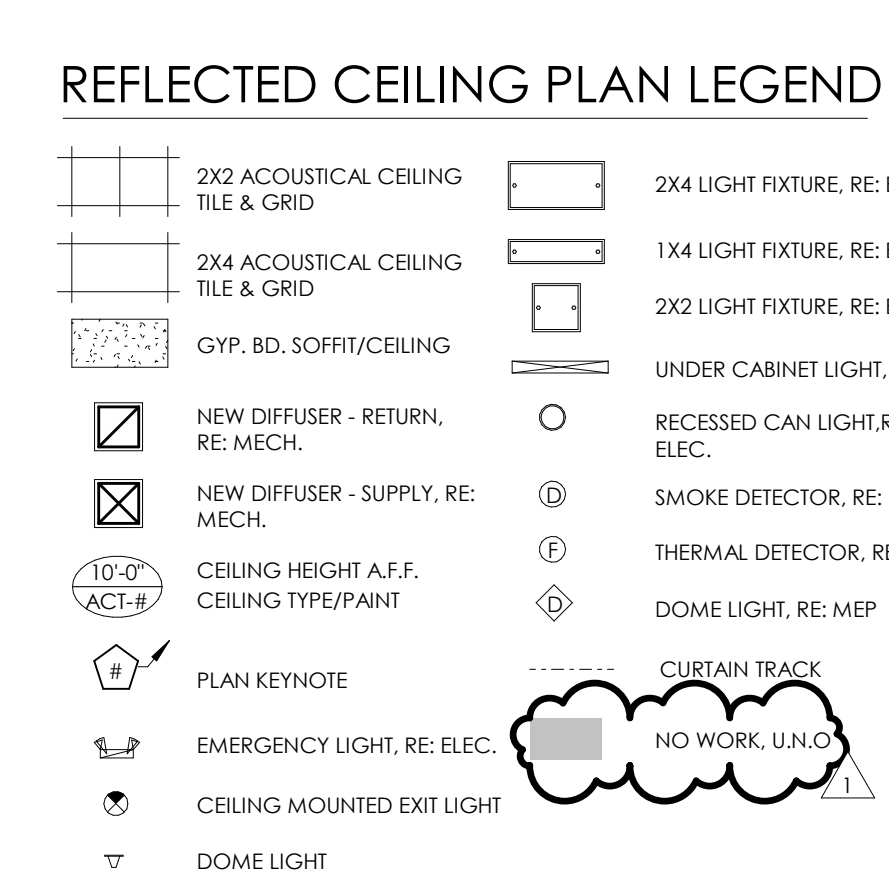
6 RCP SOFFIT NURSE STATION
1" = 1'-0"



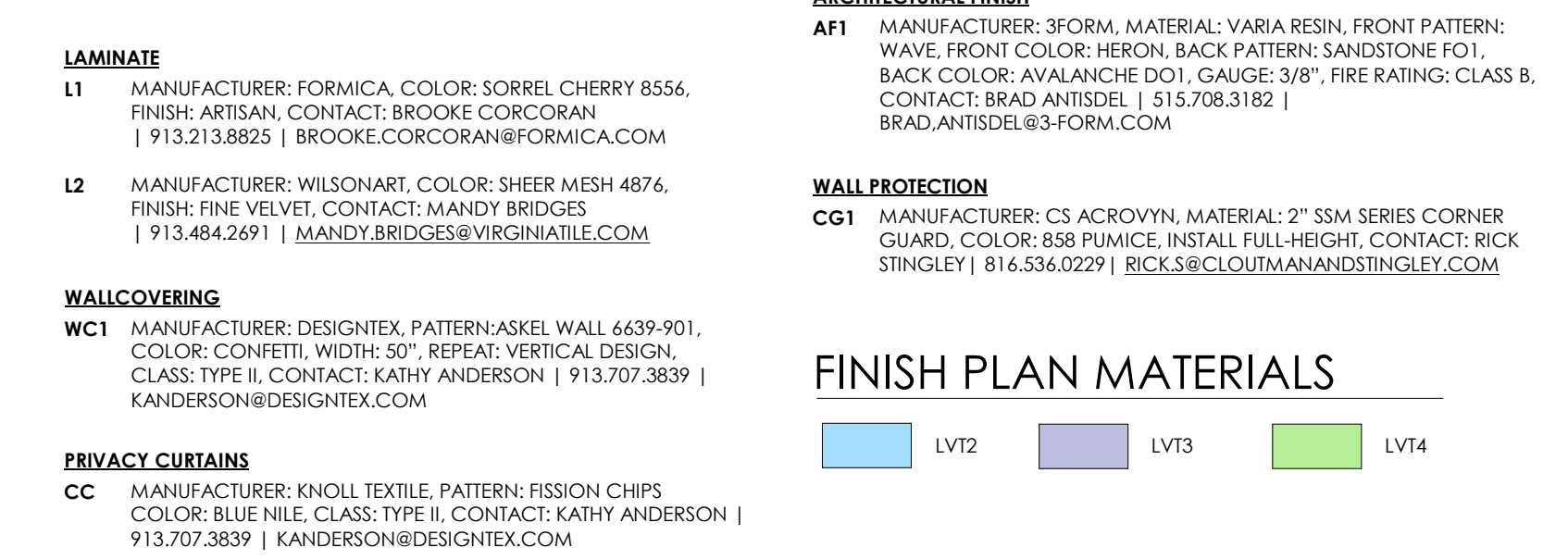
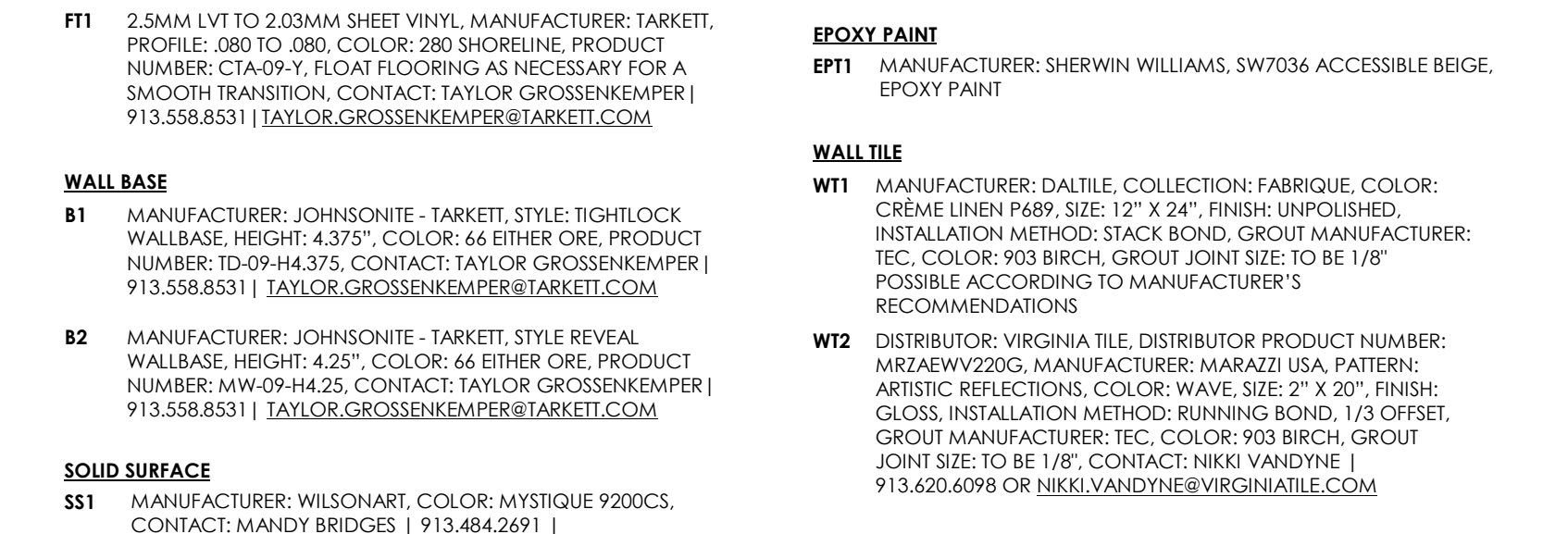
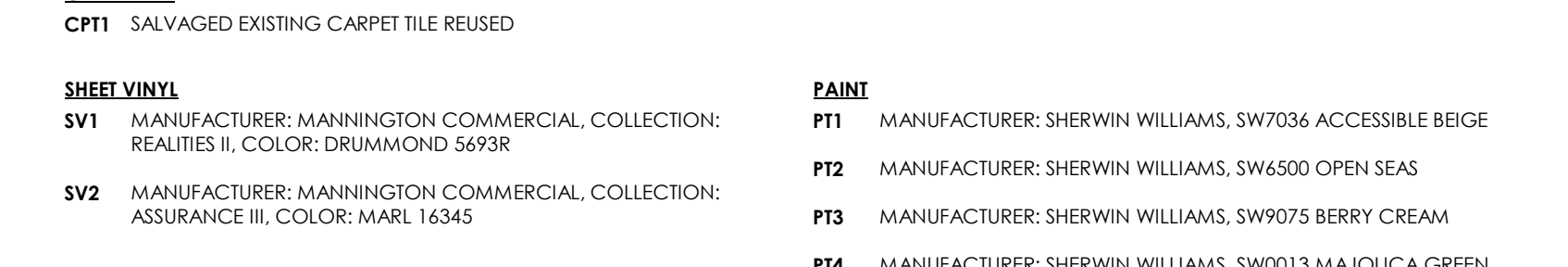
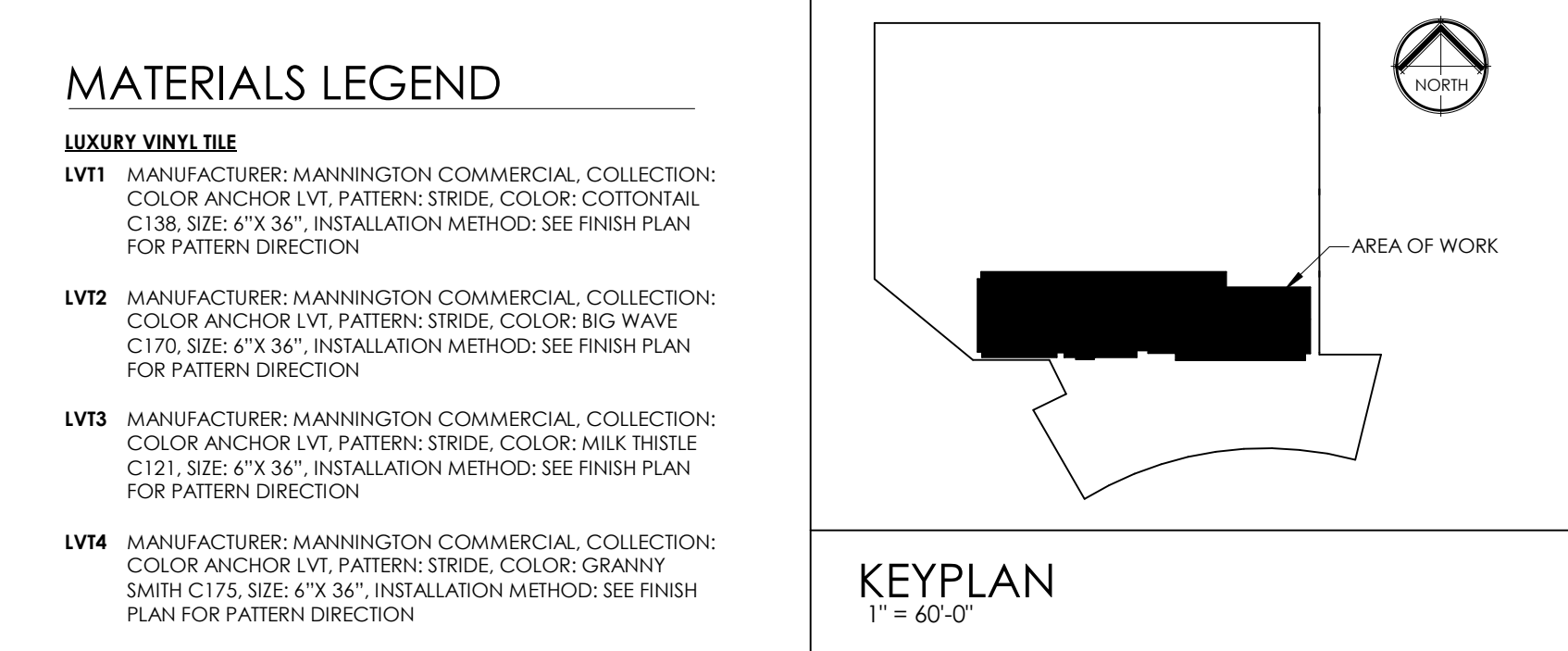
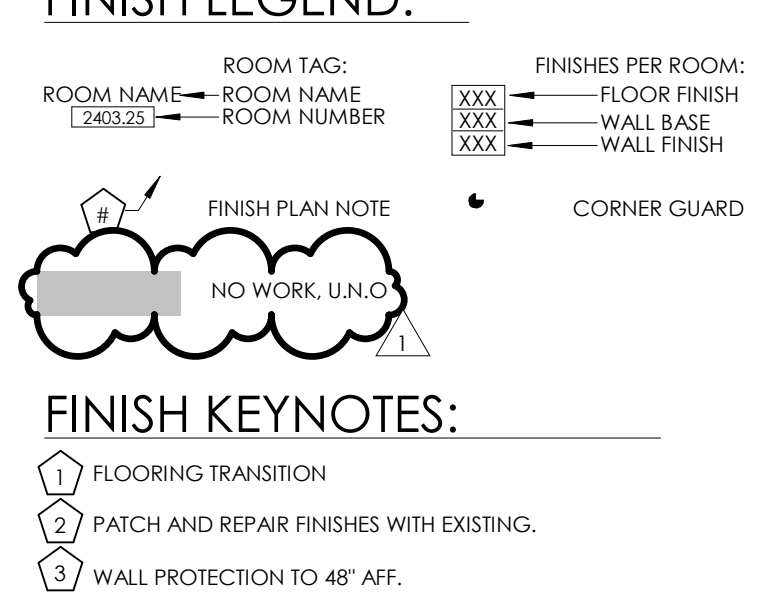
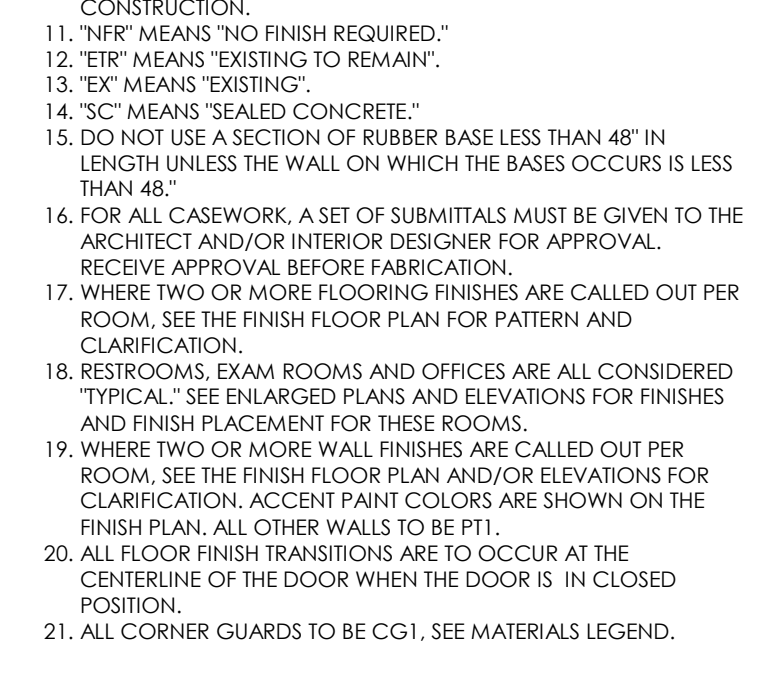
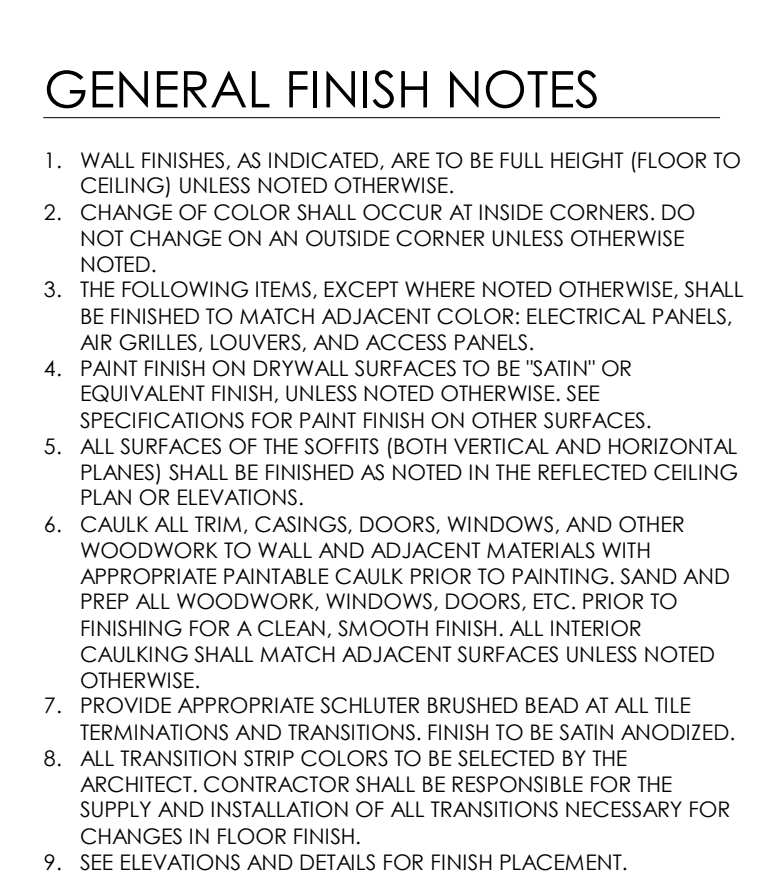
3 GROUND FLOOR LVT LAYOUT
1/8" = 1'-0"



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



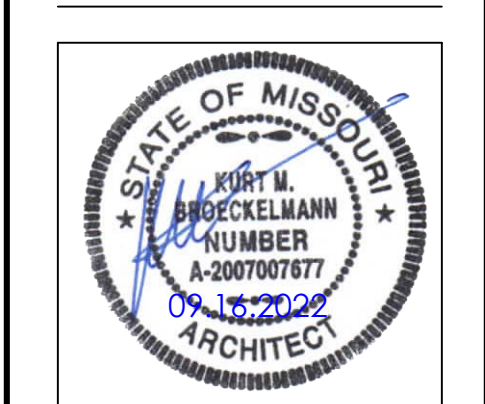
2 GROUND FLOOR FINISH PLAN
1/8" = 1'-0"



12101 W 110th Street, Suite 100
Overland Park, KS 66210
913.232.2123
MO Certificate of Authority Number
A-201007290

Project Team:
ROSS & BARUZZINI, INC.
6 SOUTH OLD ORCHARD | ST. LOUIS, MO
63119

Project Title:
University Physicians Medical Building - Ground Floor CHCC Clinic Renovation
 University of Missouri, Columbia, Missouri



Issue Date: 08.29.2022
 Issue #: 1
 Addendum #1 09.16.2022
 Drawn by: CG
 bcdg Project #: 12275.27
 MU Project #: CP202091

A200
RCP + FINISH PLAN



bc DESIGN GROUP

12101 W 110th Street, Suite 100
Overland Park, KS 66210

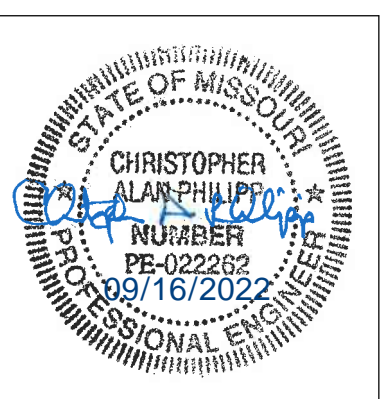
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MO Certificate of Authority Number
A-201102790

Project Team:

ROSS & BARUZZINI, INC.
8 SOUTH OLD ORCHARD | ST. LOUIS, MO
63119

Project Title:
UPMB Ground Floor Renovation
1020 Hitt St, Columbia, MO 65212



Issue Date: 08.29.2022
Addendum #1: 09.16.22

Drawn by: Author

bcdg Project #: 12275.27
MU Project #: CP202091

E100

ELECTRICAL - GROUND FLOOR
- NEW WORK

BID SET

LEGEND:
F: FURNISHED
I: INSTALLED

CONTRACTOR RESPONSIBILITY
OWNER RESPONSIBILITY

GENERAL LOW VOLTAGE ITEMS		
LOW VOLTAGE RACKS	F, I	
RACK CABLE MANAGEMENT	F, I	
CONDUIT SLEEVES		F, I
GROUNDING AND BONDING (GROUND BARS, CONDUCTORS, TERMINATIONS, ETC.)		F, I
CABLE PATHWAYS, CABLE TRAY, LADDER TRAY		F, I
LADDER RACK		F, I
FIRESTOPPING FOR LOW VOLTAGE SYSTEMS		F, I
FIRE RATED PATHWAYS		F, I
EQUIPMENT, CABLE, AND OUTLET FACEPLATE LABELING	F	I
CORE DRILLING FLOOR/WALL SLEEVES		F, I
TELECOMMUNICATIONS SYSTEMS		
FIBER SERVICE AND HORIZONTAL DISTRIBUTION FROM HOSPITAL		F, I
FIBER SWITCH AND TERMINATIONS		F, I
EQUIPMENT (SERVERS, SWITCHES, PDU, ETC.)		F, I
TELECOM ROOM LADDER RACK		F, I
PATCH PANELS		F, I
PATCH CABLES		F, I
HORIZONTAL CABLING AND TERMINATIONS	F	I
BACKBOXES AND CONDUITS		F, I
OUTLET FACEPLATES AND TERMINATIONS		F, I
WIRELESS ACCESS POINTS		F, I
COMMUNITY ACCESS TELEVISION SYSTEM (CATV)		
CABLE DISTRIBUTION (BETWEEN TELECOM ROOMS)		F, I
AMPLIFIERS AND SPLITTERS		F, I
EQUIPMENT, HEAD-END ELECTRONICS		F, I
HORIZONTAL CABLING AND TERMINATIONS	F	I
BACKBOXES AND CONDUITS		F, I
OUTLET FACEPLATES AND TERMINATIONS		F, I
ACCESS CONTROL		
HEAD-END EQUIPMENT	F	I
BACKBOXES AND CONDUITS		F, I
DEVICES (CARD READERS, KEYPADS, ETC.)		F, I
INTERCONNECTION WIRING AND TERMINATIONS	F	I
VIDEO SURVEILLANCE		
HEAD-END EQUIPMENT (HARDWARE, SOFTWARE, DISPLAYS, ETC.)	F	I
CAMERAS AND SUPPORTS		F, I
HORIZONTAL CABLING AND TERMINATIONS	F	I
BACKBOXES AND CONDUITS		F, I
NURSE CALL		
HEAD-END EQUIPMENT, UPS, AND PROGRAMMING	F	I
HORIZONTAL CABLING AND TERMINATIONS	F	I
BACKBOXES AND CONDUITS		F, I
DEVICES		F, I
INTERCONNECTION WIRING AND TERMINATIONS TO PERIPHERALS	F, I	
PUBLIC ADDRESS SYSTEM		
HEAD-END EQUIPMENT		F, I
HORIZONTAL CABLING AND TERMINATIONS	F	I
BACKBOXES AND CONDUITS		F, I
SPEAKERS		F, I
SOUND MASKING SYSTEM - ALTERNATE #1		
SYSTEM CONTROLLER		F, I
HORIZONTAL CABLING AND TERMINATIONS		F, I
MOUNTING COMPONENTS AND CONDUITS		F, I
SPEAKERS/EMITTERS		F, I

GENERAL NOTES

- REFER TO SHEET E000 FOR ELECTRICAL GENERAL NOTES.
- CIRCUIT NUMBERS ARE FOR REFERENCE AND ARE SHOWN FOR LOADING PURPOSES ONLY. CONTRACTOR TO USE CIRCUITS MADE SPARE FROM DEMOLITION AND AVAILABLE SPARE CIRCUIT BREAKERS IN PANEL NBB AND IF NECESSARY PANEL NBA. CONTRACTOR MAY CONNECT NEW RECEPTACLES TO EXISTING CIRCUITS ALREADY IN ROOMS SO LONG AS THERE ARE NO MORE THAN (6) RECEPTACLES ON A SINGLE CIRCUIT. DEVICES SHOWN ON DEDICATED CIRCUITS TO REMAIN ON DEDICATED CIRCUITS.
- ALL ELECTRICAL CIRCUITS SHOWN ARE CONNECTED TO PANEL NBB UNLESS OTHERWISE NOTED.

KEYED NOTES

- PROVIDE NEW TAMPER RESISTANT RECEPTACLE IN EXISTING DEVICE BOX AND NEW COVER PLATE. CONNECT TO EXISTING WIRING.
- REMOVE (2) 20A-1P CIRCUIT BREAKERS AND PROVIDE (1) NEW 20A-2P CIRCUIT BREAKER FOR TREADMILL. FIELD VERIFY EXACT CIRCUIT NUMBERS BASED ON CIRCUITS MADE SPARE FROM DEMOLITION. MATCH EXISTING MANUFACTURER AND AMP RATING.
- PROVIDE EZ PATH SERIES 22 FIRE RATED PATHWAY ABOVE DOOR FOR LOW VOLTAGE CABLES.



- NOTES:
- THE PARTY RESPONSIBLE FOR INSTALLING THE RESPECTIVE EQUIPMENT SHALL ALSO BE RESPONSIBLE FOR CONNECTING, PROGRAMMING AND TESTING THE SYSTEM, UNLESS OTHERWISE SPECIFICALLY NOTED. CONTRACTOR TO COORDINATE TESTING WITH ALL THIRD PARTY VENDORS.
 - ITEMS INDICATED AS FURNISHED AND/OR INSTALLED BY THE OWNER MAY BE PROVIDED BY A THIRD-PARTY VENDOR. CONTRACTOR IS REQUIRED TO COORDINATE ALL INSTALLATIONS.
 - ALL LINE VOLTAGE RECEPTACLE AND HARD-WIRED CONNECTIONS WILL BE PROVIDED BY THE CONTRACTOR.
 - FIRESTOPPING TO BE PROVIDED BY A SINGLE ENTITY. REFER TO DIVISION 07 SPECIFICATIONS FOR REQUIREMENTS.

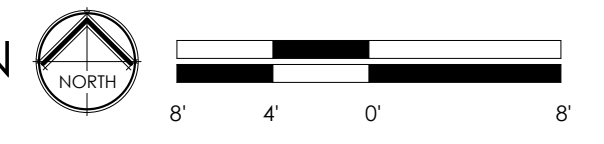
2 LOW VOLTAGE RESPONSIBILITY MATRIX

NO SCALE



KEYPLAN

1 ELECTRICAL NEW WORK FLOOR PLAN
1/8" = 1'-0"



EXISTING AHU DESCRIPTION AND COMPONENTS

THE EXISTING HVAC SYSTEM IS SET UP FOR A STANDARD MEDICAL OFFICE BUILDING. VARIABLE AIRFLOW AIR HANDLING UNITS ARE LOCATED IN THE BASEMENT MECHANICAL ROOM WITHIN THE BUILDING. AHU-1 FEEDS THE WEST HALF OF THE BUILDING AND AHU-2 FEEDS THE EAST HALF OF THE BUILDING. WE WILL FOCUS ON AHU-1 SINCE IT SERVES THE RENOVATION AREA, BUT BOTH UNITS ARE ESSENTIALLY IDENTICAL. THE AIR HANDLING UNITS CONSIST OF THE FOLLOWING COMPONENTS:

- REMOTE RETURN FAN – SUSPENDED WITHIN THE MECHANICAL ROOM (40,000 CFM, 3" TSP, 40HP, 480V/3PH)
- MIXING SECTION
- AIR BLENDER
- PRE-FILTER (MERV 8)
- SUPPLY FAN (45,000 CFM, 9" TSP, 100 HP, 480V/3PH)
- BLOW THROUGH COOLING COIL – CAMPUS CHILLED WATER (1512 MBH, 250 GPM, 18 FT. HEAD PRESSURE)
- DISCHARGE SECTION
- REMOTE, DUCT MOUNTED, STEAM DISPERSION HUMIDIFIER

SUPPLY AIR IS DUCTED FROM THE AIR HANDLING UNIT AND IS DISTRIBUTED TO MULTIPLE SPACES ON MULTIPLE FLOORS. VAV BOXES WITH HOT WATER REHEAT COILS MODULATE AIRFLOW TO EACH ZONE AND PROVIDE HEATING AT THE ZONE LEVEL FOR TEMPERATURE CONTROL. ALL AIR THAT IS NOT EXHAUSTED IS RETURNED BACK TO THE MAIN UNIT THROUGH THE CEILING RETURN AIR FLENUM.

GENERAL NOTES

1. REFER TO SHEET M000 FOR GENERAL NOTES.

KEYED NOTES

1. NEW LOCATION OF EXISTING WALL MOUNTED DDC THERMOSTAT. CONNECT TO EXISTING ASSOCIATED VAV BOX NOTED ON PLANS. IF EXISTING CONTROL WIRING IS NOT LONG ENOUGH, PROVIDE NEW. SPLICING OF CONTROL WIRING IS PROHIBITED. PATCH WALL TO MATCH EXISTING FINISH. INSTALL AN ADHESIVE LABEL ON THERMOSTAT WITH AIR TERMINAL UNIT LOCATION FROM THERMOSTAT.
2. INSTALL NEW OWNER FURNISHED WALL MOUNTED DDC THERMOSTAT ON NEW WALL. INSTALL AN ADHESIVE LABEL ON THERMOSTAT WITH CORRESPONDING AIR TERMINAL UNIT TAG AND AIR TERMINAL UNIT LOCATION FROM THERMOSTAT. LETTERS SHALL BE A MINIMUM 1/8" HIGH. COORDINATE LABEL TYPE AND LETTERING HEIGHT WITH OWNER'S REPRESENTATIVE.
3. EXISTING WALL MOUNTED DDC THERMOSTAT TO REMAIN.
4. NEW NON-DUCTED RETURN GRILLES TO HAVE A 10"x10" LINED SOUND BOOT PER DETAIL 7 ON SHEET M-500. DUCT SIZE NOTED ON PLAN IS SHEETMETAL SIZE.
5. RETURN AIR TRANSFER DUCT WITH 1" DUCT LINER. DUCT SIZE NOTED ON PLAN IS SHEETMETAL SIZE.
6. EXISTING RETURN AIR TRANSFER DUCT ABOVE CEILING TO REMAIN.
7. PRIOR TO CONNECTING TO EXISTING EXPOSED 3/4" HEATING HOT WATER PIPING, CLOSE EXISTING SHUT-OFF VALVES IN EXISTING NORTH CORRIDOR. EXISTING HEATING HOT WATER SYSTEM MUST REMAIN OPERATIONAL AT ALL TIMES. REFER TO IMAGE 1 AND 2 ON SHEET M-100.
8. REMOVE EXISTING BRANCH DUCT TO BE BELOW EXISTING SUPPLY MAIN. REFER TO IMAGES 4 AND 5 ON THIS SHEET.
9. CONNECT TO EXISTING OPEN-ENDED RETURN AIR DUCT ABOVE CEILING AND EXTEND AS SHOWN. BALANCE FOR 4135 CFM.
10. EXISTING VAV DDC POWER SUPPLY ON WALL.
11. CONNECT NEW RETURN BRANCH DUCT TO TOP OF EXISTING RETURN MAIN.
12. ROUTE NEW 24"Ø SUPPLY BRANCH DUCT ABOVE EXISTING STEAM PIPING AND BELOW EXISTING CONDUIT. REFER TO IMAGE 1 ON THIS SHEET. NEW VAV-1-016 TO BE INSTALLED AT SAME ELEVATION THAT EXISTING 18x14 OUTSIDE AIR DUCT WAS REMOVED. REFER TO IMAGES 2 AND 3 ON THIS SHEET FOR OUTSIDE AIR DUCT. REFER TO SHEET M-100 FOR OUTSIDE AIR DUCT DEMOLITION WORK.
13. MODIFY EXISTING OPENING IN WALL FOR INSTALLATION OF NEW RATED DAMPER.



IMAGE 1



IMAGE 2



IMAGE 3

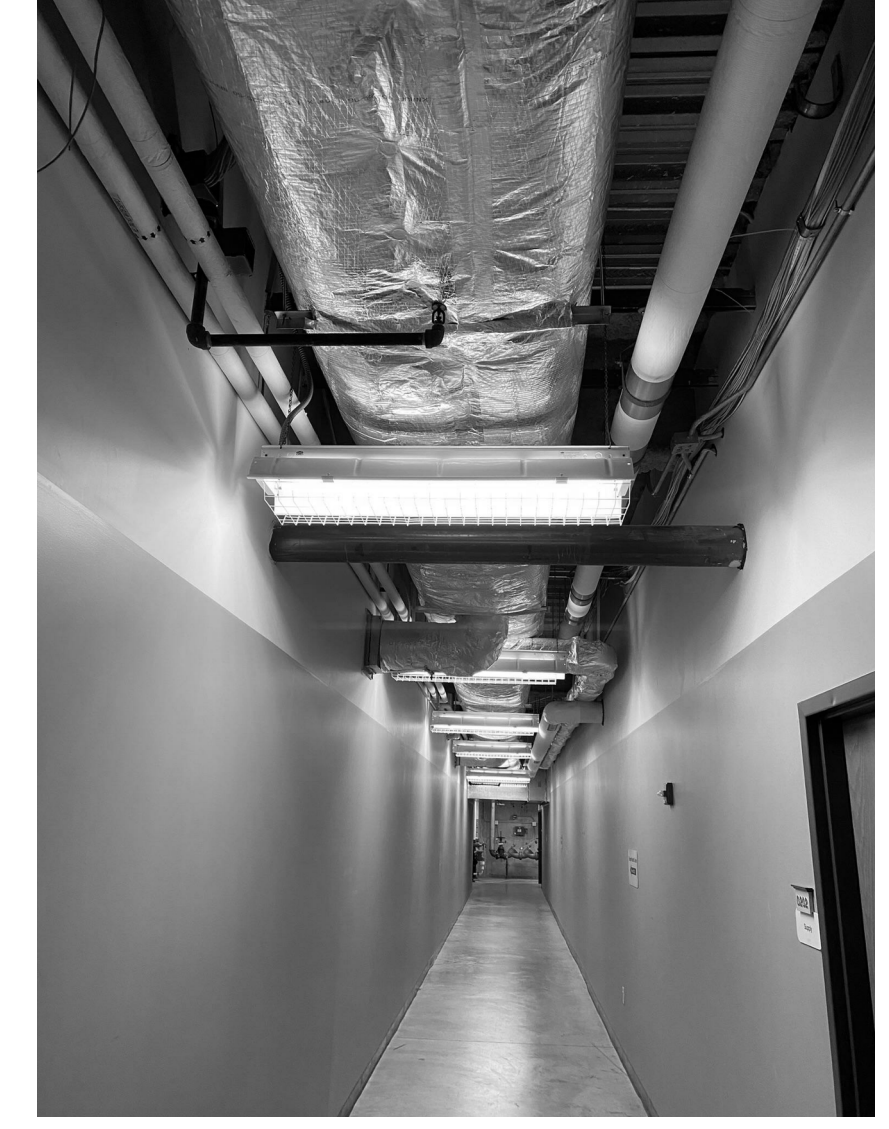
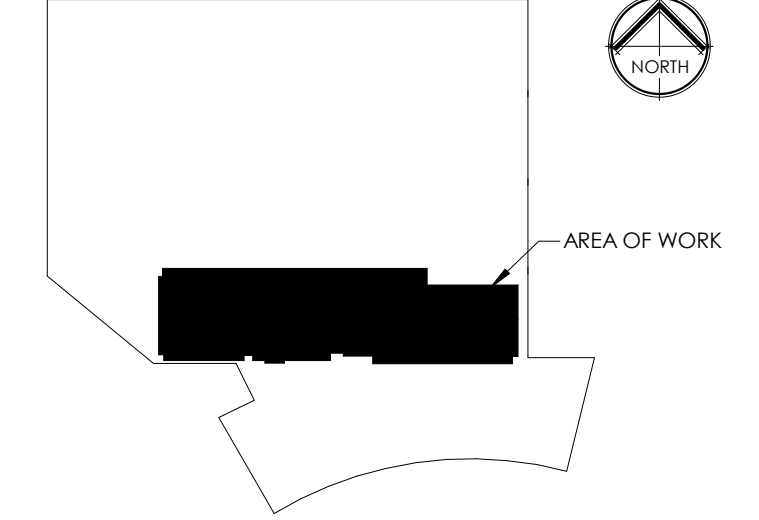


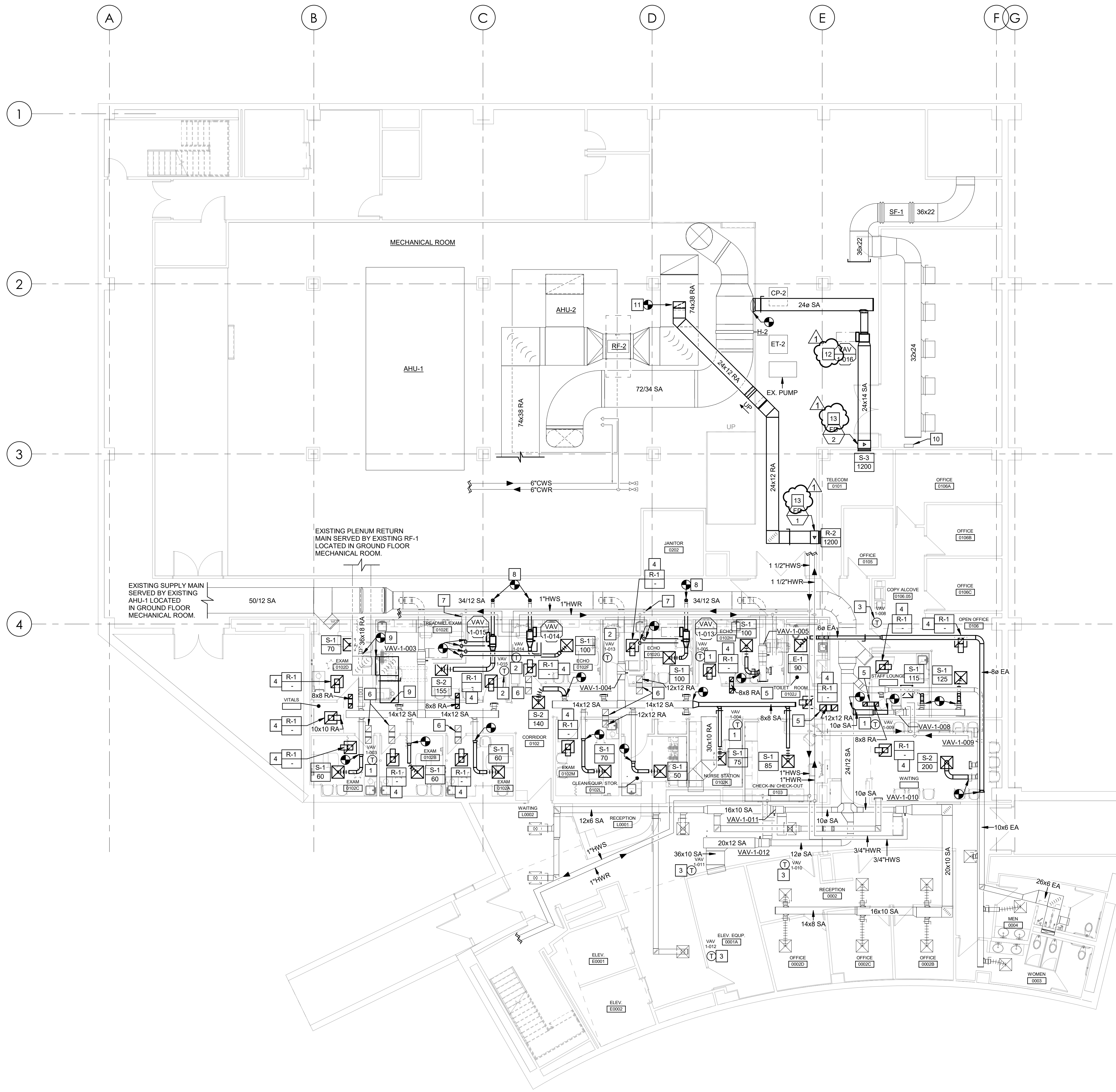
IMAGE 4



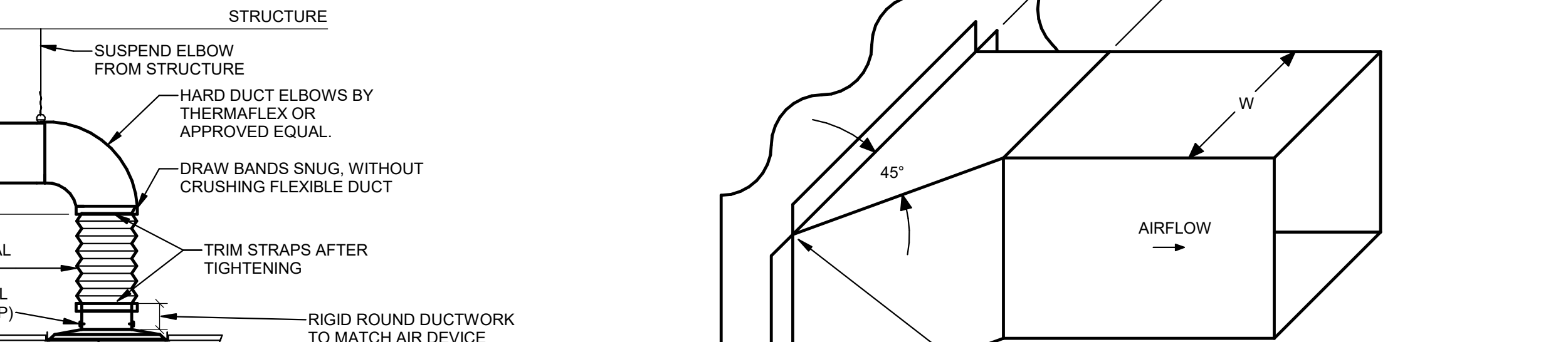
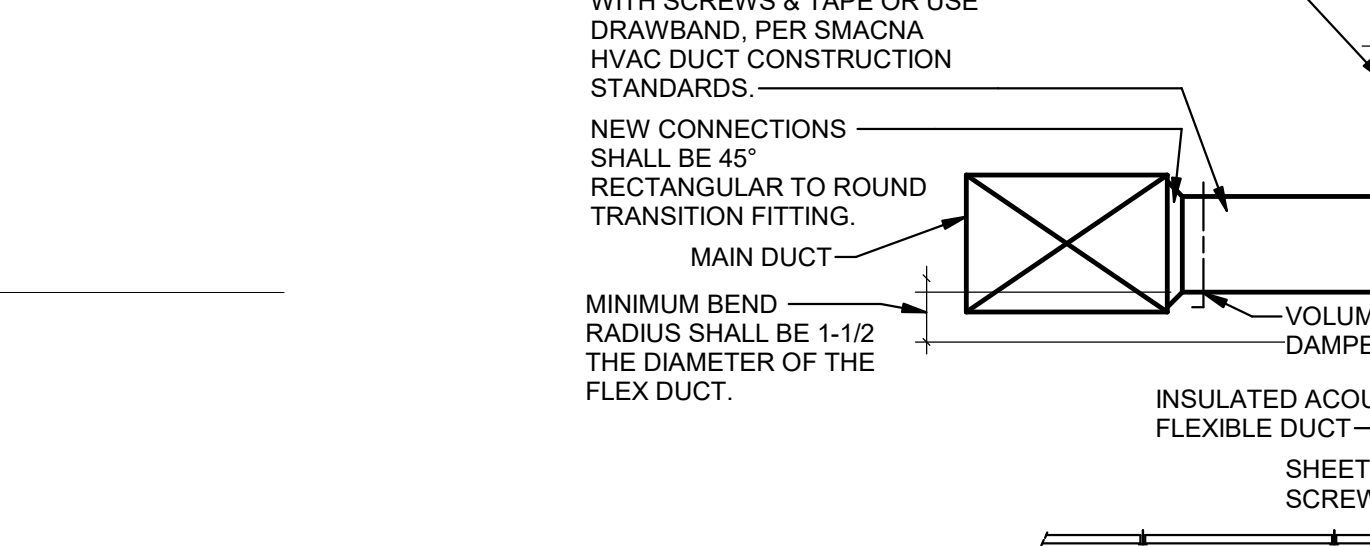
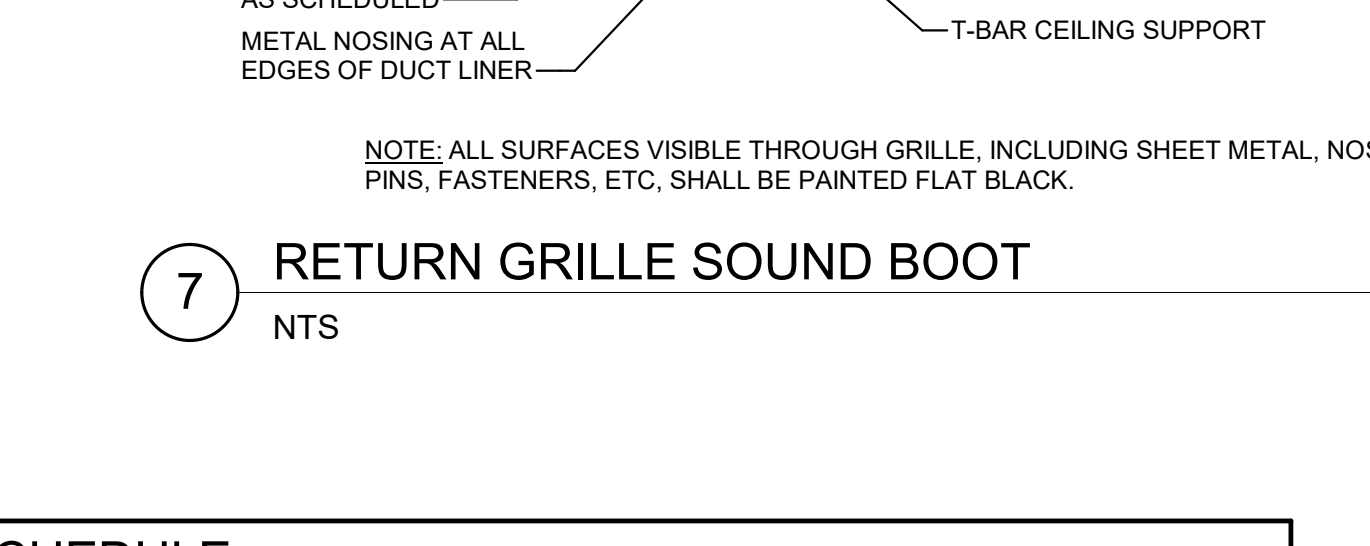
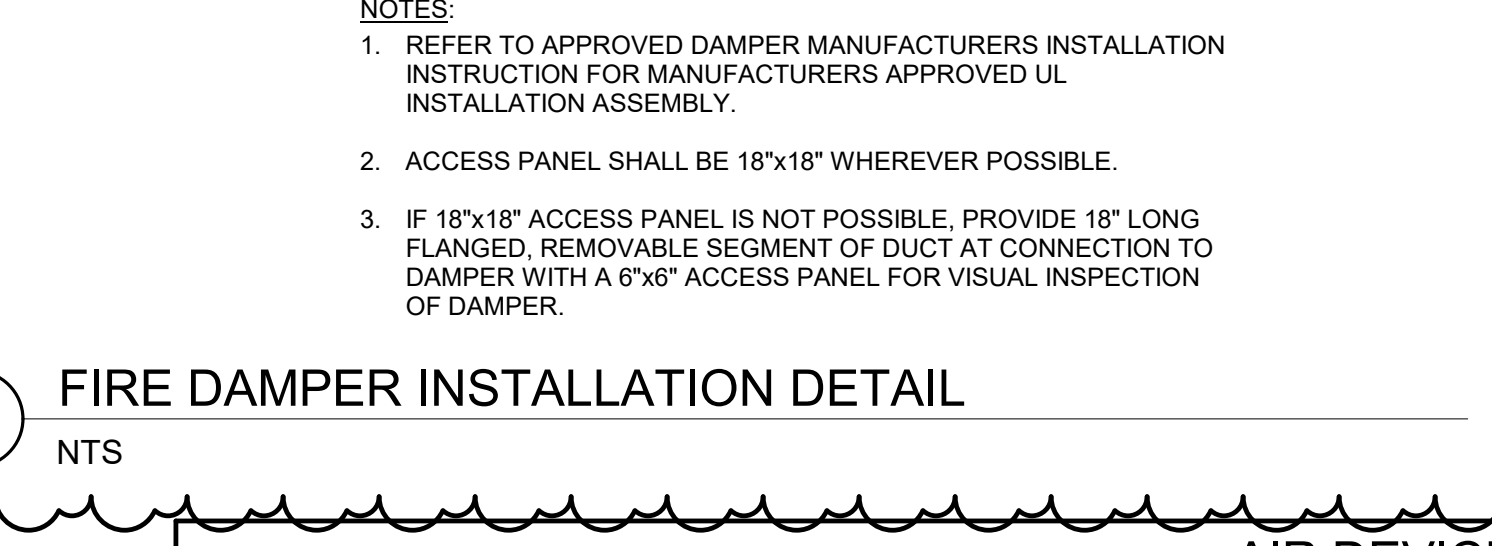
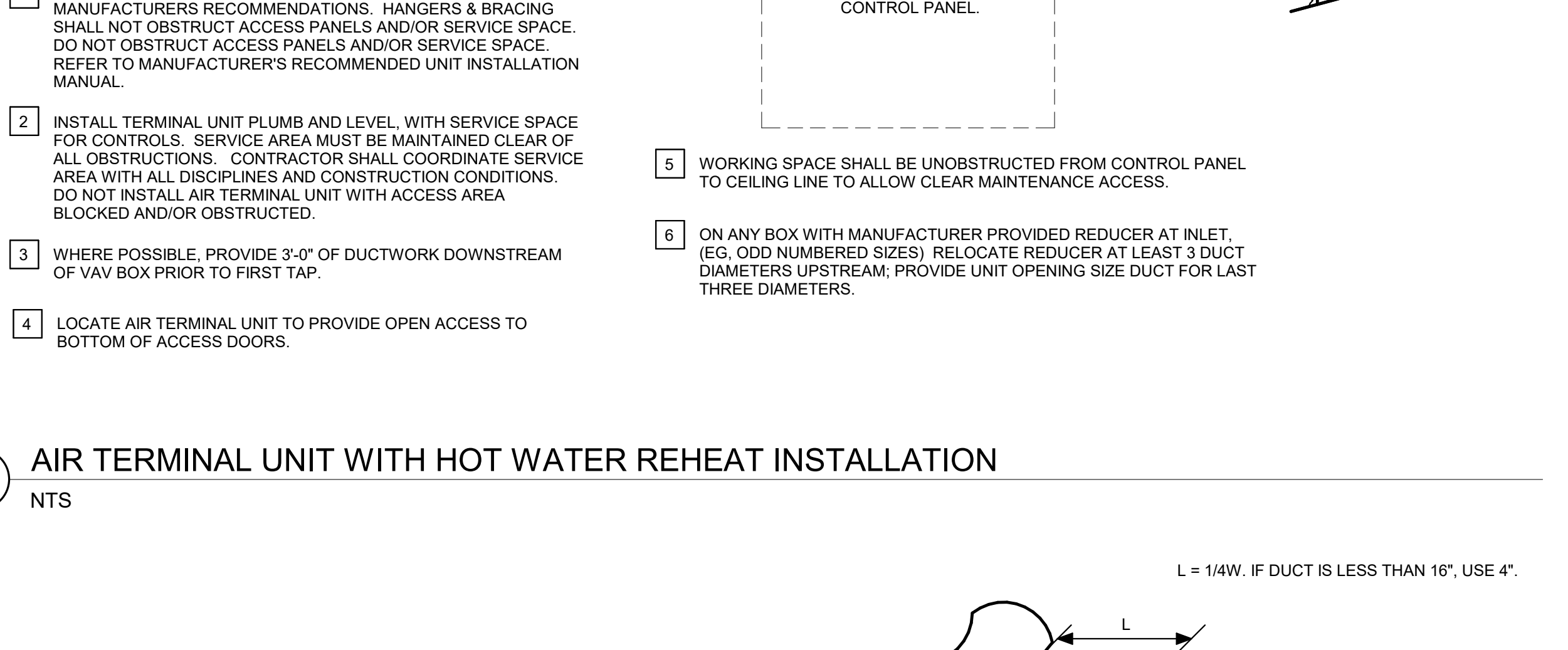
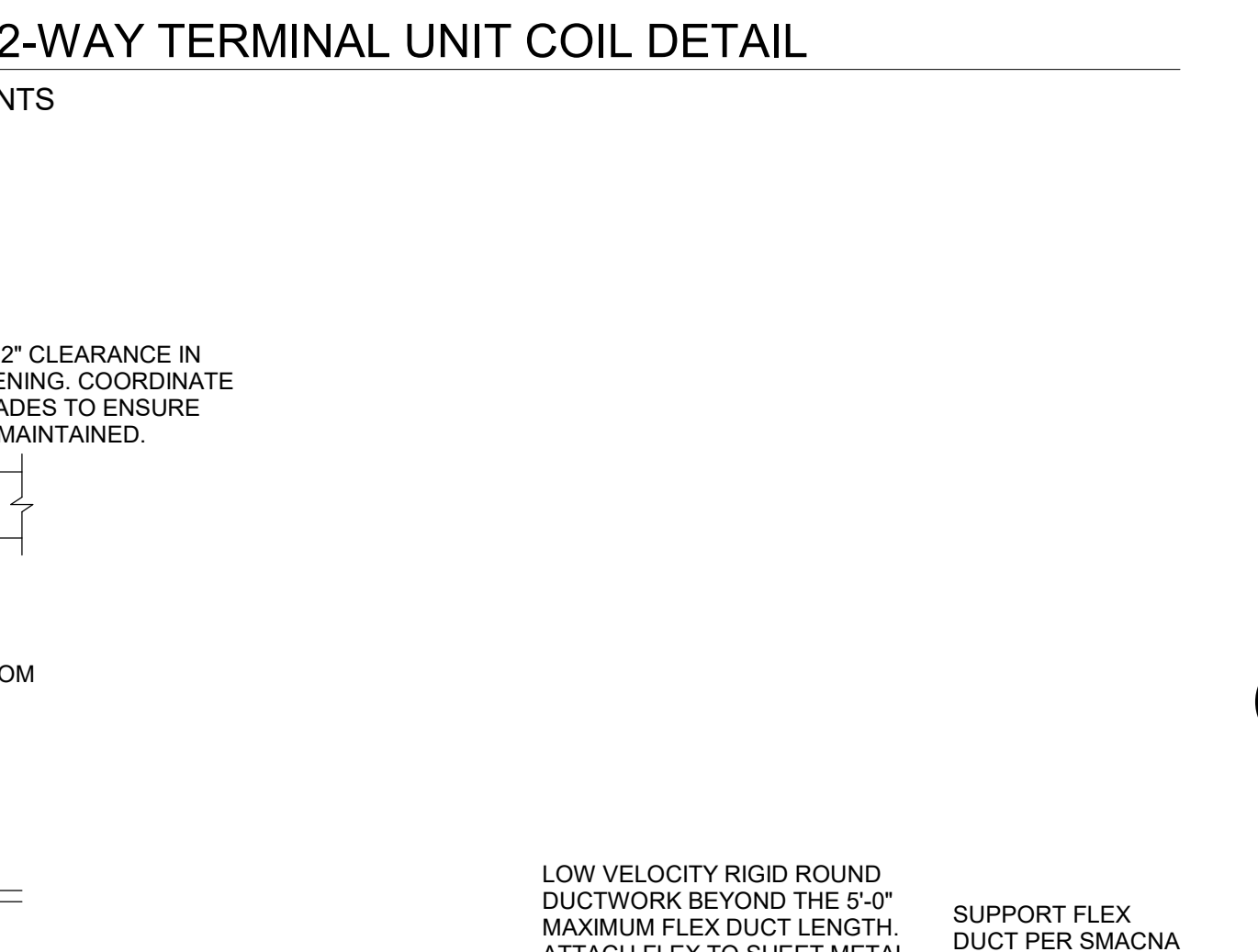
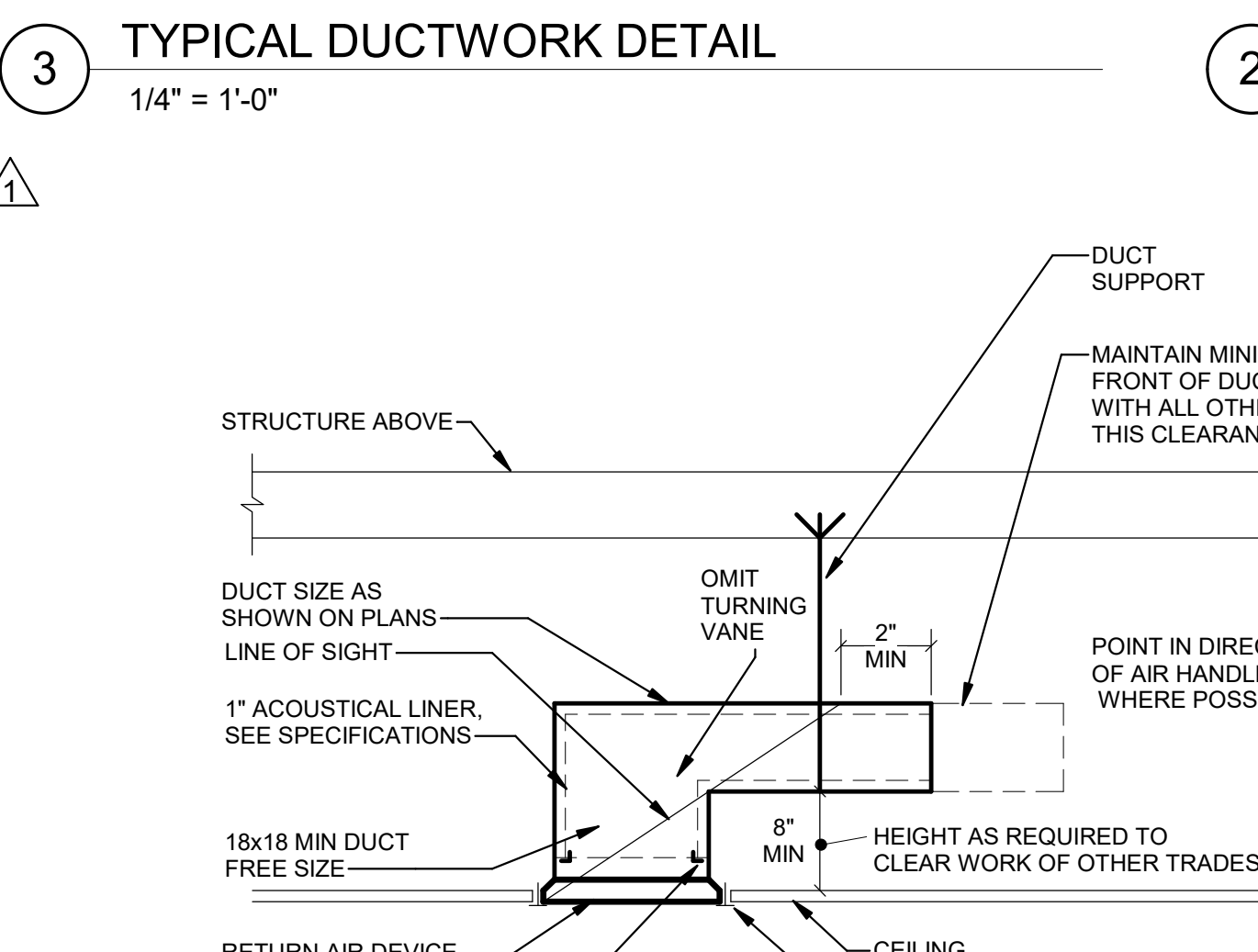
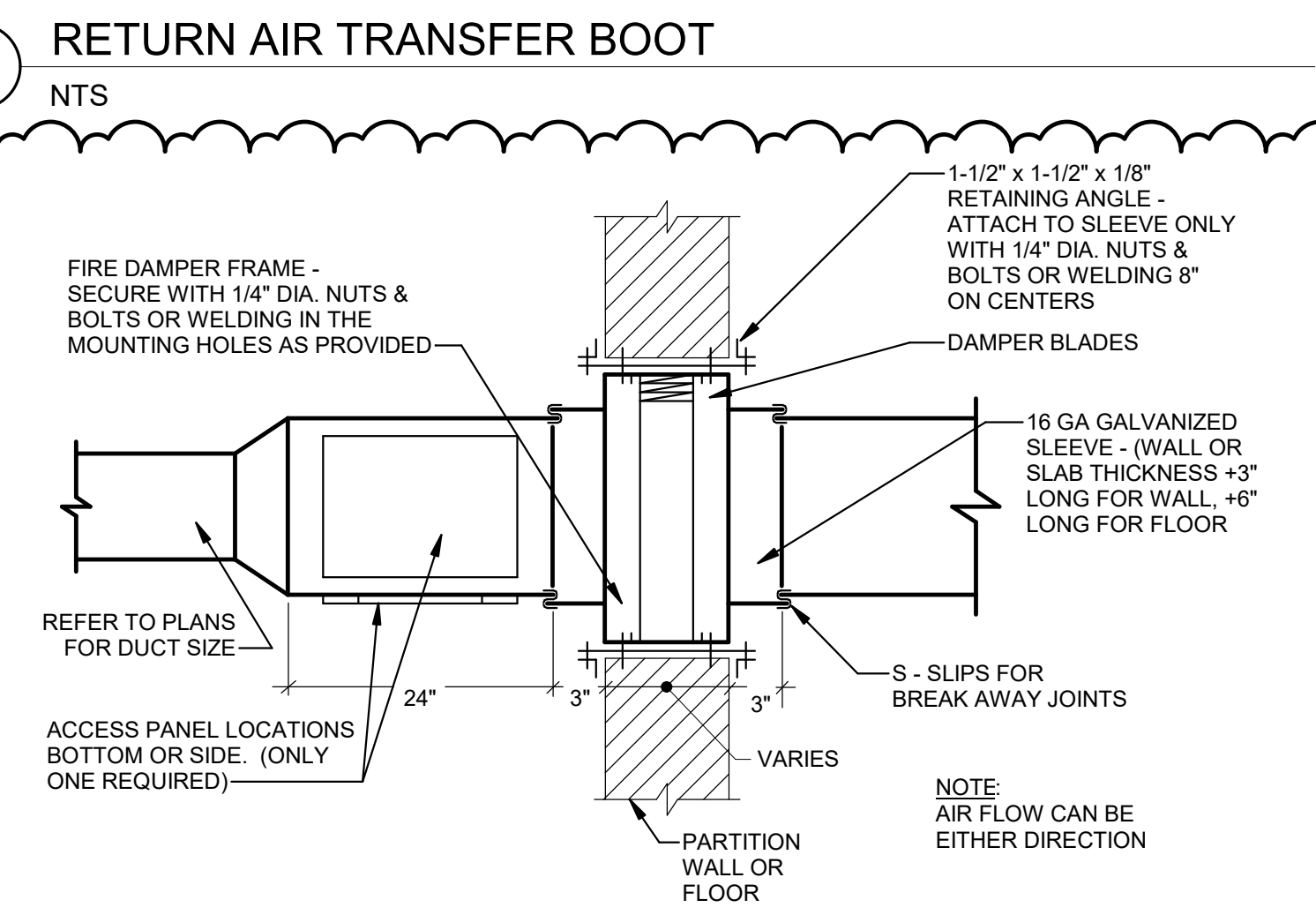
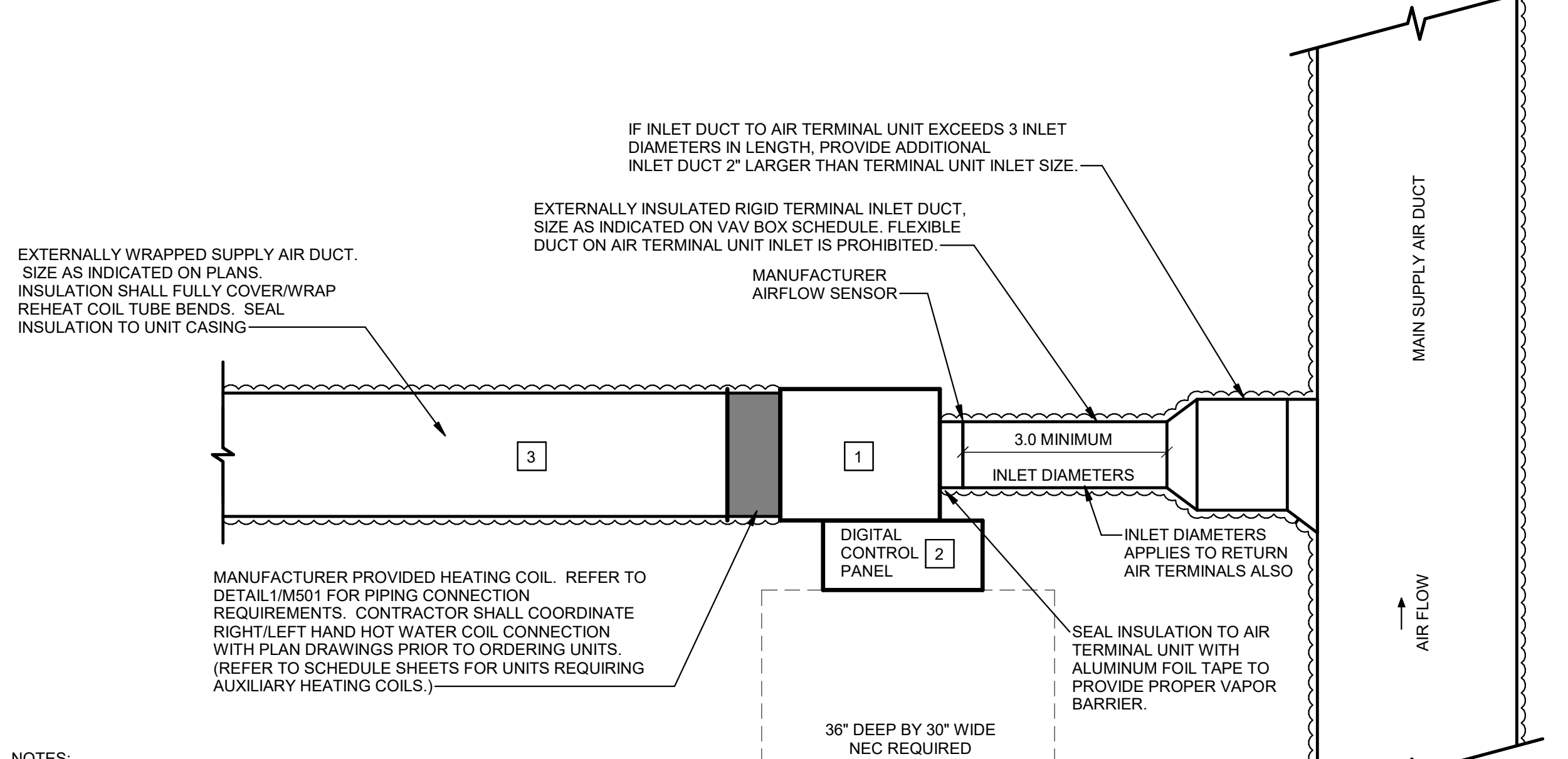
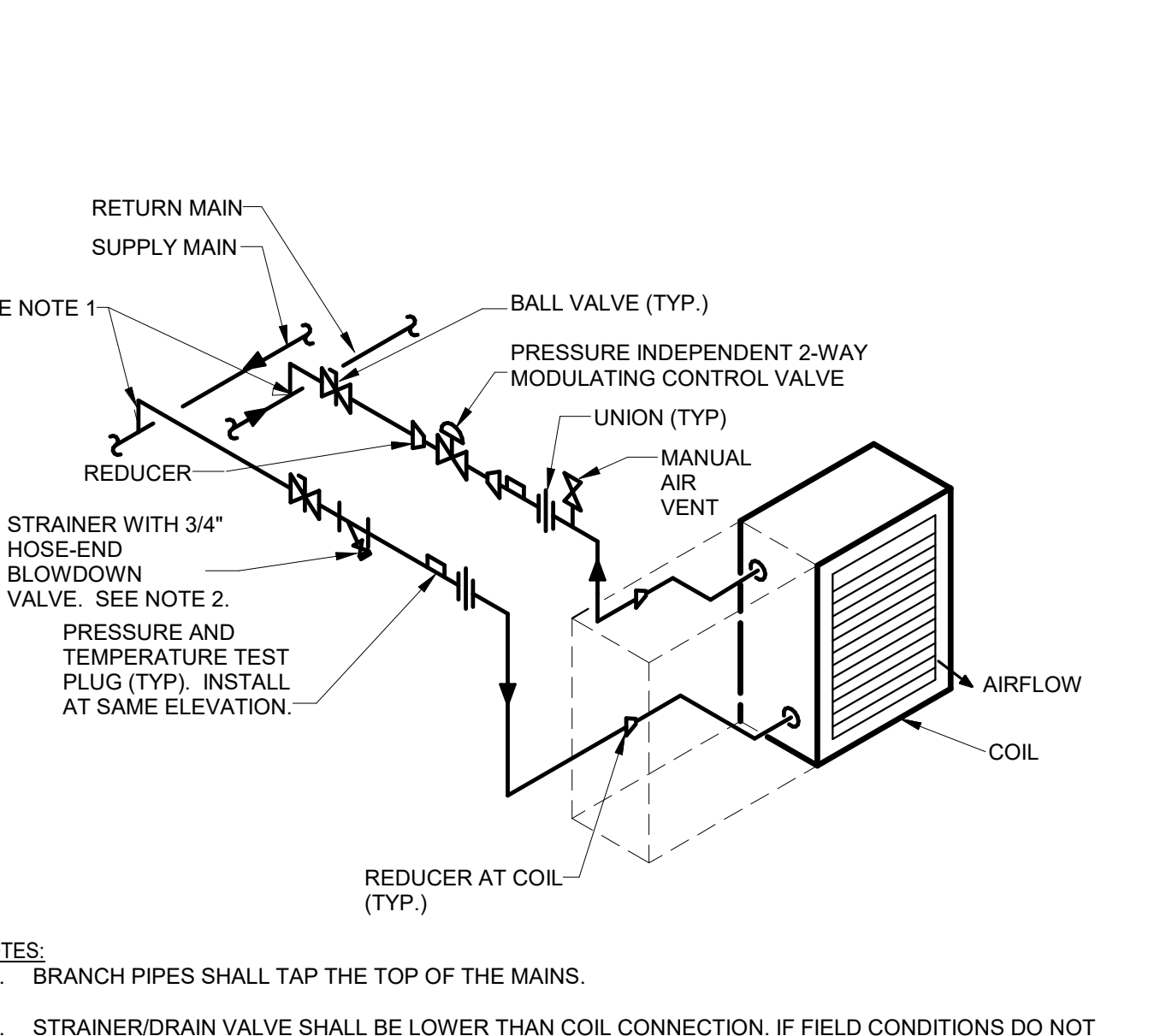
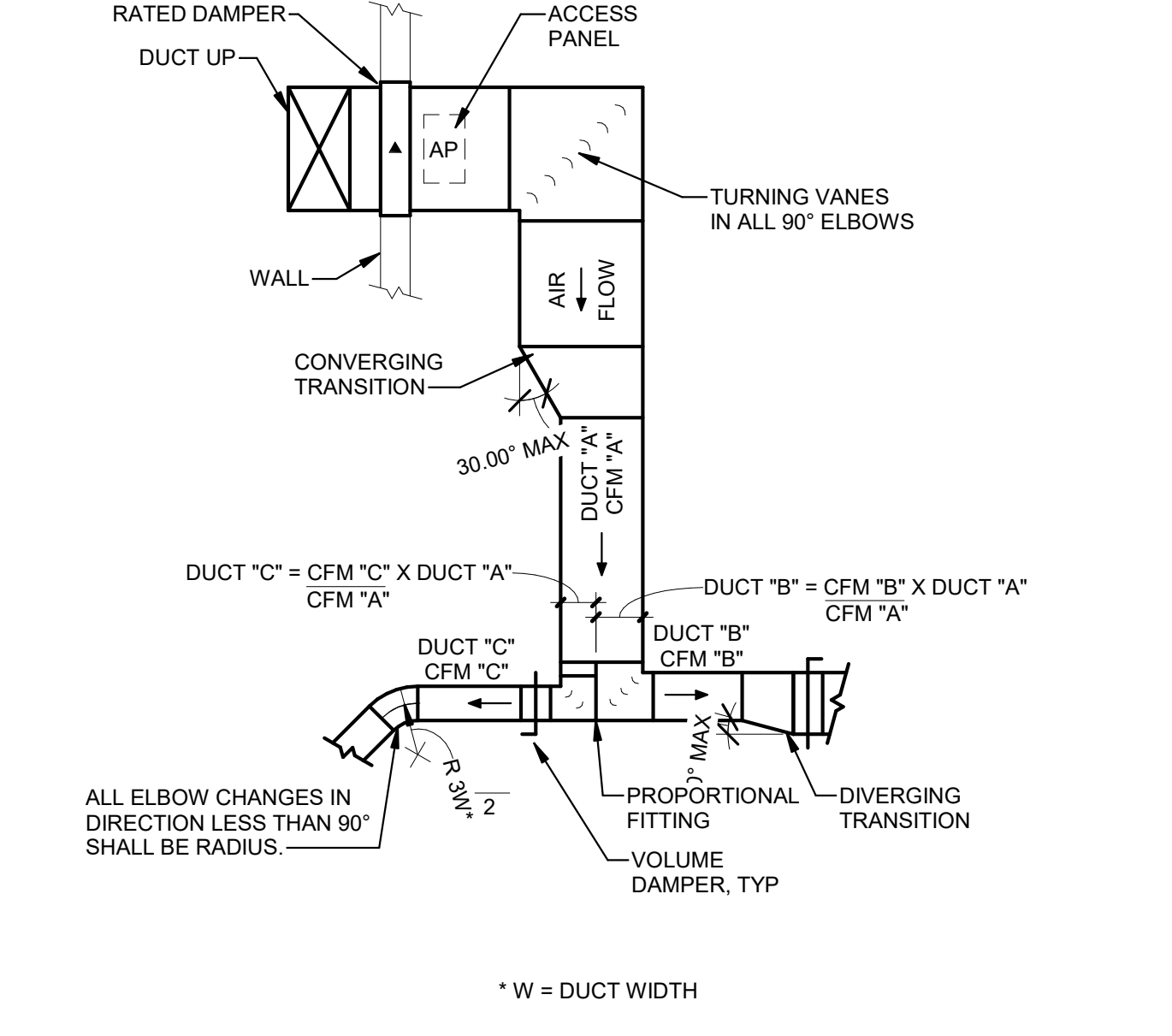
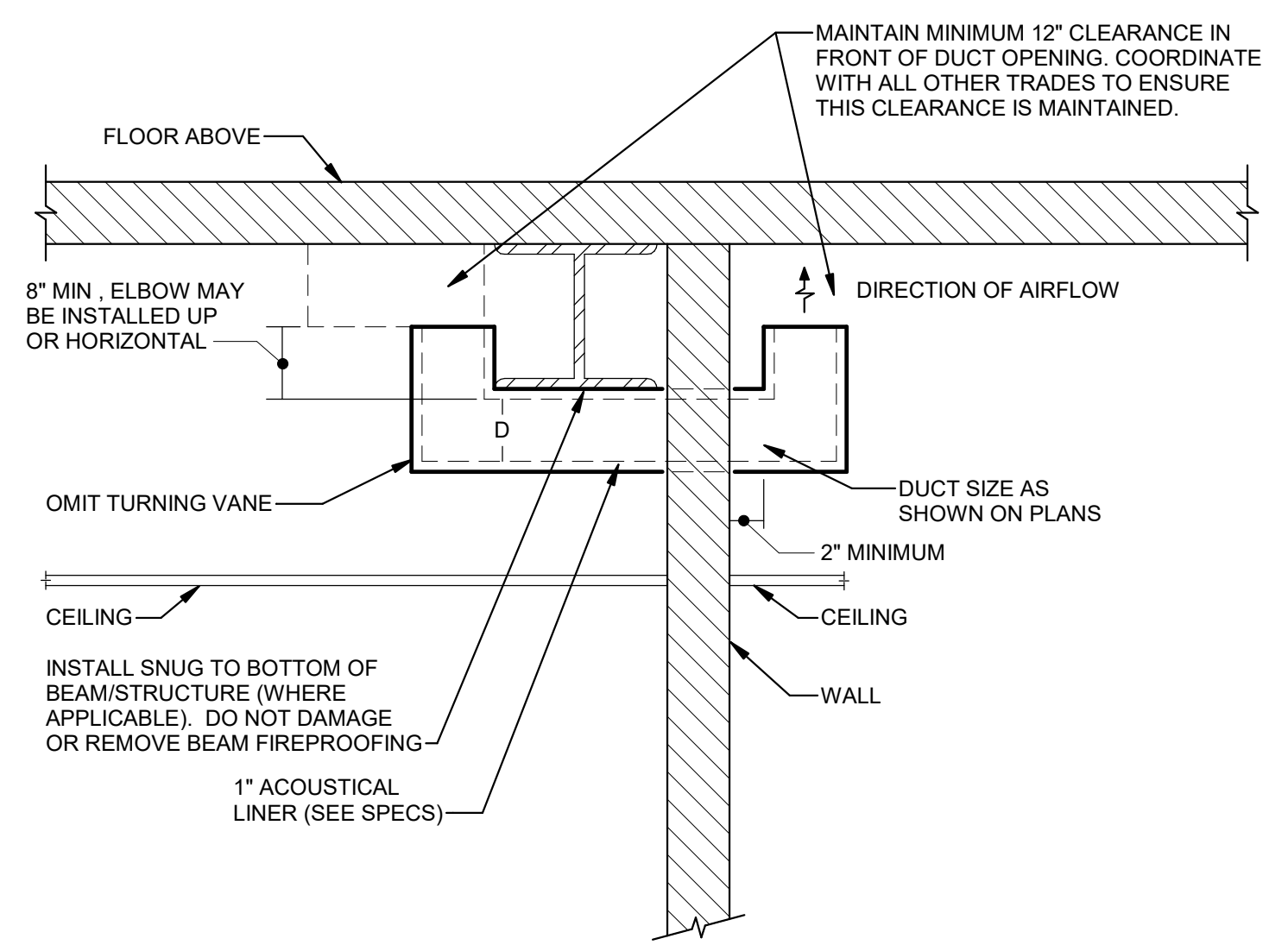
IMAGE 5



KEYPLAN



1 MECHANICAL - GROUND FLOOR PLAN - NEW WORK



AIR DEVICE SCHEDULE														
NOTES:														
1. COORDINATE REQUIRED BORDER FRAME TYPE WITH ARCHITECTURAL REFLECTED CEILING PLANS. PROVIDE WITH MANUFACTURERS FOIL-FACED MOLDED INSULATION BLANKET ON BACK OF AIR DEVICE.														
MARK	ID #	MFR.	MODEL	TYPE	LOCATION	SERVICE	NECK SIZE (IN)	FACE SIZE (IN x IN)	MATERIAL	FINISH	MAX TPD (IN WC)	MAX NOISE (NC)	MAX CFM @ LISTED CONDITIONS	NOTES
S	1	TITUS	OMNI	SQUARE PLAQUE	CEILING	SUPPLY AIR	6	24x24	STEEL	WHITE	0.1	30	130	1, 2
S	2	TITUS	OMNI	SQUARE PLAQUE	CEILING	SUPPLY AIR	8	24x24	STEEL	WHITE	0.1	30	280	1, 2
S	3	TITUS	301RL	LOUVERED FACE	WALL	SUPPLY AIR	24x14	28x16	STEEL	WHITE	0.1	30	1285	1, 2
R	1	TITUS	PAR	PERFORATED FACE	CEILING	RETURN AIR	10x10	24x24	STEEL	WHITE	0.1	30	200	1, 2
R	2	TITUS	350RL	LOUVERED FACE	WALL	RETURN AIR	24x12	28x14	STEEL	WHITE	0.1	30	1200	1, 2
E	1	TITUS	PAR	PERFORATED FACE	CEILING	EXHAUST AIR	6	24x24	STEEL	WHITE	0.1	30	130	1, 2

AIR TERMINAL UNIT SCHEDULE																									
NOTES:																									
1. MAX TOTAL PRESSURE DROP SHALL INCLUDE BOX AND REHEAT COIL (WHERE APPLICABLE).																									
2. PROVIDE THE NUMBER OF COIL ROWS AS REQUIRED TO MEET SCHEDULED PERFORMANCE AND STILL FALL WITHIN REHEAT COIL PRESSURE DROP LIMITATION.																									
3. DESIGN SUPPLY AIR TEMPERATURE LIMITS THE TEMPERATURE TO 15°F ABOVE THE SPACE SETPOINT OF 72°F TO MAXIMIZE THE VENTILATION EFFECTIVENESS NOTED IN ASHRAE 62.1 - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY.																									
4. PROVIDE WITH BOTTOM ACCESS DOOR PER THE SPECIFICATIONS.																									
5. EXISTING AIR TERMINAL UNIT																									
6. HOT WATER REHEAT WATER FLOW (GPM) IS NOT REQUIRED TO BE REBALANCED.																									
7. AIRFLOWS ARE BASED ON TESTING, ADJUSTING, AND BALANCING REPORT FOR PROJECT #CP171063 DATED: JULY 26, 2019.																									
8. COOLING ONLY AIR TERMINAL UNIT.																									
MARK	ID #	EXISTING/NEW	MFR.	MODEL	TYPE	ROUND DUCT INLET SIZE (IN)	PRIMARY AIRFLOW (CFM)	COOLING/HEATING MIN.	UNOCCUPIED AIRFLOW (CFM)	DESIGN INLET STATIC PRESSURE (IN WC)	(1) MAX PRESSURE DROP (IN WC)	OUTLET DUCT SIZE WxD (IN)	AIRFLOW (CFM)	CAPACITY (MBH)	EAT (°F)	LAT (°F) (3)	EWT/LWT (°F)	AUXILIARY HOT WATER HEATING COIL	FLOW (GPM)	MAX WPD (FT HD)	MAX APD (IN WC)	CONTROL VALVE	DISCHARGE	MAX NC LEVEL @ MAX CFM	NOTES
VAV	1-003	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	12	240	120	60	-	-	16x15	120	-	55	-	-	180/140	-	-	-	2-WAY	-	-	5, 6
VAV	1-004	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	12	320	160	80	-	-	16x15	160	-	55	-	-	180/140	-	-	-	2-WAY	-	-	5, 6
VAV	1-005	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	12	100	50	25	-	-	16x15	50	-	55	-	-	180/140	-	-	-	2-WAY	-	-	5, 6
VAV	1-006	EXISTING	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	8	240	120	60	-	-	12x10	120	-	55	-	-	180/140	-	-	-	2-WAY	-	-	5, 6
VAV	1-009	EXISTING	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	8	650	325	165	-	-	12x10	325	-	55	-	-	180/140	-	-	-	2-WAY	-	-	5, 6
VAV	1-010	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	10	900	450	225	-	-	14x12 1/2	450	-	55	-	-	180/140	-	-	-	2-WAY	-	-	5, 6, 7
VAV	1-011	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	10	770	455	225	-	-	14x12 1/2	455	-	55	-	-	180/140	-	-	-	2-WAY	-	-	5, 6, 7
VAV	1-012	EXISTING	CARNES	AVWD	SINGLE DUCT PRESSURE INDEPENDENT	12	1300	650	325	-	-	16x15	650	-	55	-	-	180/140	-	-	-	2-WAY	-	-	5, 6, 7
VAV	1-013	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	100	50	25	1.2	0.5	12x8	50	1.7	55	87	180/140	0.5	5.0	0.25	2-WAY	30	30	2, 4	
VAV	1-014	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	100	50	25	1.2	0.5	12x8	50	1.7	55	87	180/140	0.5	5.0	0.25	2-WAY	30	30	2, 4	
VAV	1-015	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	6	100	50	25	1.2	0.5	12x8	50	1.7	55	87	180/140	0.5	5.0	0.25	2-WAY	30	30	2, 4	
VAV	1-016	NEW	TITUS	DESV	SINGLE DUCT PRESSURE INDEPENDENT	14	1200	1200	1200	1.2	0.5	20x17 1/2	-	-	-	-	-	180/140	-	-	-	2-WAY	30	30	4, 8

FIRE DAMPER SCHEDULE										
NOTES:										
1. DYNAMIC TYPE "B" WITH BLADES OUTSIDE OF AIRSTREAM.										
MARK	ID #	MFR.	MODEL	TYPE	SERVICE	ORIENTATION	DUCT SIZE WxH (IN)	DAMPER RATINGS (HR)	FUSIBLE LINK TEMP (°F)	NOTES
FD	1	GREENHECK	DFD-150	DYNAMIC	RETURN	VERTICAL	24x12	1.5	165	1
FD	2	GREENHECK	DFD-150	DYNAMIC	SUPPLY	VERTICAL	24x14	1.5	165	1

AIR CHANGE RATE SCHEDULE																								
ROOM #	ROOM NAME	AREA (SF)	CEILING HEIGHT (FT)	ROOM VOLUME (CU FT)	SUPPLY AIR						OUTSIDE AIR						EXHAUST AIR							
					ASHRAE 170-2017			DESIGN			ASHRAE 170-2017			DESIGN			ASHRAE 170-2017			DESIGN				
					AC/HOUR	SA CFM	SA CFM	AC/HOUR	AC/HOUR	OA CFM	OA CFM	AC/HOUR	AC/HOUR	EA CFM	EA CFM	AC/HOUR	EA CFM	EA CFM						
0102A	EXAM	104	8'-3"	853	4	57	60	4.2	2	28	28	2	0	0	0	0	0	0	0	0	0	0	0	
0102B	EXAM	102	8'-3"	837	4	56	60	4.3	2	28	28	2	0	0	0	0	0	0	0	0	0	0	0	
0102C	EXAM	102	8'-3"	837	4	56	60	4.3	2	28	28	2	0	0	0	0	0	0	0	0	0	0	0	
0102D	EXAM	127	8'-3"	1042	4	70	70	4.0	2	35	35	2	0	0	0	0	0	0	0	0	0	0	0	
0102E	TREADMILL/EXAM	281	8'-3"	2305	4	155	155	4.0	2	77	77	2	0	0	0	0	0	0	0	0	0	0	0	
0102F	ECHO	150	8'-3"	1230	4	82	100	4.9	2	41	41	2	0	0	0	0	0	0	0	0	0	0	0	
0102G	ECHO	150	8'-3"	1230	4	82	100	4.9	2	41	41	2	0	0	0	0	0	0	0	0	0	0	0	
0102H	ECHO	150	8'-3"	1230	4	82	100	4.9	2	41	41	2	0	0	0	0	0	0	0	0	0	0	0	
0102L	CLEAN EQUIP STORAGE	89	8'-3"	730	4	49	50	4.1	2	25	25	2	0	0	0	0	0	0	0	0	0	0	0	
0102M	EXAM	128	8'-3"	1050	4	70	70	4	2	35	35	2	0	0	0	0	0	0	0	0	0	0	0	
0102	CORRIDOR	510	8'-3"	4182	0	0	140	2	2	140	140	2	0	0	0	0	0	0	0	0	0	0	0	0
0102J	TOILET ROOM	63	8'-3"	517	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	87	90	10.4

Project Title:
UPMB Ground Floor Renovation
1020 Hill St, Columbia, MO 65212



Issue Date: 08/29/2022
Addendum #1: 09/16/22

Drawn by: Author
bcbd Project #: 12275.27
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M500
DETAILS & SCHEDULES