**Construction Contracts Administration, Procurement Contracts & Materials Management (PCMM)**
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28 November 2018

Oregon State University
Construction Contracts Administration
Valley Library Extended Campus Reconfiguration

ADDENDUM NO. 2

THIS ADDENDUM IS BEING ISSUED for clarification and/or revisions of the drawings and specifications as noted. This document is hereby made a part of the Contract Documents to the extent as though it was originally included herein.

| | |
|---|---|
| Item 1 | The Bid Opening/Closing date has been changed **from** November 30, 2018 at 2:00 PM Pacific Time **to** December 5, 2018 at 2:00 PM Pacific Time. |
| Item 2 | DELETE Bid Form in its entirety. It is replaced with the Revised Bid Form attached to this addendum. |
| | The following changes shall be made to the following changes shall be made to the **TECHNICAL SPECIFICATIONS:** |
| Item 3 | ADD Section 08 70 01 - Door Hardware attached to this addendum. |
| Item 4 | DELETE Section 09 84 00 - Acoustical Panels in its entirety. |
| | The following are clarifications to the **TECHNICAL SPECIFICATIONS:** |
| Item 5 | Divisions 21, 22, 23, and 26 are provided as a basis of design and the work shall be permitted as trade permits. |

The following changes shall be made to the following changes shall be made to the **DRAWINGS:**

| | |
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| Item 6 | DELETE Cover Sheet in its entirety. Replace with Cover Sheet attached to this addendum. |
| Item 7 | DELETE Sheet A100 in its entirety. Replace with Sheet A100 attached to this addendum. |
| Item 8 | DELETE Sheet A101 in its entirety. Replace with Sheet A101 attached to this addendum. |
| Item 9 | DELETE Sheet A102 in its entirety. Replace with Sheet A102 attached to this addendum. |
| Item 10 | DELETE Sheet A103 in its entirety. Replace with Sheet A103 attached to this addendum. |
| Item 11 | DELETE Sheet A200 in its entirety. Replace with Sheet A200 attached to this addendum. |
| Item 12 | DELETE Sheet A201 in its entirety. Replace with Sheet A201 attached to this addendum. |
| Item 13 | DELETE Sheet A500 in its entirety. Replace with Sheet A500 attached to this addendum. |
| Item 14 | DELETE Sheet A600 in its entirety. Replace with Sheet A600 attached to this addendum. |
| Item 15 | DELETE Sheet A601 in its entirety. Replace with Sheet A601 attached to this addendum. |
| Item 16 | DELETE Sheet A900 in its entirety. Replace with Sheet A900 attached to this addendum. |
| Item 17 | DELETE Sheet A902 in its entirety. Replace with Sheet A902 attached to this addendum. |
| Item 18 | DELETE Sheet A930 in its entirety. Replace with Sheet A930 attached to this addendum. |
| Item 19 | DELETE Sheet A931 in its entirety. Replace with Sheet A931 attached to this addendum. |
| Item 20 | DELETE Sheet E001 in its entirety. Replace with Sheet E001 attached to this addendum. |
| Item 21 | DELETE Sheet E101 in its entirety. Replace with Sheet E101 attached to this addendum. |
| Item 22 | DELETE Sheet E102 in its entirety. Replace with Sheet E102 attached to this addendum. |
| Item 23 | DELETE Sheet E111 in its entirety. Replace with Sheet E111 attached to this addendum. |
| Item 24 | DELETE Sheet E112 in its entirety. Replace with Sheet E112 attached to this addendum. |

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| Item 25 | DELETE Sheet E121 in its entirety. Replace with Sheet E121 attached to this addendum. |
| Item 26 | DELETE Sheet E122 in its entirety. Replace with Sheet E122 attached to this addendum. |
| Item 27 | DELETE Sheet E131 in its entirety. Replace with Sheet E131 attached to this addendum. |
| Item 28 | DELETE Sheet E132 in its entirety. Replace with Sheet E132 attached to this addendum. |
| Item 29 | DELETE Sheet M001 in its entirety. Replace with Sheet M001 attached to this addendum. |
| Item 30 | DELETE Sheet M101 in its entirety. Replace with Sheet M101 attached to this addendum. |
| Item 31 | DELETE Sheet M102 in its entirety. Replace with Sheet M102 attached to this addendum. |
| Item 32 | DELETE Sheet M121 in its entirety. Replace with Sheet M121 attached to this addendum. |
| Item 33 | DELETE Sheet M122 in its entirety. Replace with Sheet M122 attached to this addendum. |
| Item 34 | DELETE Sheet M161 in its entirety. Replace with Sheet M161 attached to this addendum. |
| Item 35 | DELETE Sheet M162 in its entirety. Replace with Sheet M162 attached to this addendum. |
| Item 36 | DELETE Sheet P001 in its entirety. Replace with Sheet P001 attached to this addendum. |
| Item 37 | DELETE Sheet P101 in its entirety. Replace with Sheet P101 attached to this addendum. |
| Item 38 | DELETE Sheet P102 in its entirety. Replace with Sheet P102 attached to this addendum. |
| Item 39 | DELETE Sheet P111 in its entirety. Replace with Sheet P111 attached to this addendum. |
| Item 40 | DELETE Sheet P112 in its entirety. Replace with Sheet P112 attached to this addendum. |
| Item 41 | **FOR REFERENCE ONLY** ADD Sheet E3.1 attached to this addendum. |
| Item 42 | **FOR REFERENCE ONLY** ADD Sheet E3.3 attached to this addendum. |
| Item 43 | **FOR REFERENCE ONLY** ADD Sheet E3.4 attached to this addendum. |
| Item 44 | **FOR REFERENCE ONLY** ADD Sheet Western States Fire Protection Company – 3rd Floor Renovation attached to this addendum. |
| Item 45 | **FOR REFERENCE ONLY** ADD Sheet Western States Fire Protection Company – 4th Floor Renovation attached to this addendum. |

**QUESTIONS/ANSWERS:**

| | | |
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| Item 46 | Question: | What all does the design build for electric include? Just what is on the drawings or is there a narrative telling us what to include? |
| | Answer: | What is indicated in the drawing and specifications is required. Design build for electrical requires that the Contractor shall provide complete and fully operational electrical distribution, lighting, communications horizontal cabling, and fire alarm system modifications as specified herein. Reference specifications. |
| Item 47 | Question: | Do we do anything with the fixtures that we are relocating? New lamps or ballast? |
| | Answer: | Existing fixtures are to be relocated. Re-lamping and/or re-ballasting is not included. |
| Item 48 | Question: | New surface raceway E121 & E122 for new system furniture, what is this surface raceway (wiremold 4000)? |
| | Answer: | Acceptable surface raceway is Wiremold Series 4000 or approved equivalent. Reference specifications. |
| Item 49 | Question: | E122 note #1 existing j-box to new furniture feeds, do we reuse the existing circuit that are already there or install new circuits? |
| | Answer: | Contractor shall provide appropriate quantity of circuit(s) to support the installed systems furniture. Note indicates that coordination with system furniture is required power and connection requirements. |
| Item 50 | Question: | What fire alarm system is in the building? Where is the main fire alarm panel located? |
| | Answer: | Existing fourth floor Simplex NAC panel is located in Electrical Room 4012 and fire alarm terminal cabinet located in Electrical Room 4771. |
| Item 51 | Question: | Are we to included telecom cabling in our quote or will that be dome by others? |
| | Answer: | Horizontal cabling shall be included. Reference specifications. |
| Item 52 | Question: | The door schedule on sheet A902 lists hardware groups for each opening. There's not a hardware specification or hardware schedule listed for the project. Please include a hardware schedule if new hardware is required. |
| | Answer: | Hardware spec is included in this addendum. |

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| Item 53 | Question: | Specification 098400 for Acoustical Wall Panels (AWPs) is included with the Project Manual, but there are no locations for AWPs called out in the plans. Please confirm that AWPs are not a part of this projects scope of work. |
| | Answer: | Acoustic wall panel specification is removed in this addendum. |
| Item 54 | Question: | Sheets A930 and A931 include furniture plans, but there is no furniture specification included with the Project Manual. Please confirm furniture is not a part of the General Contractors scope of work. If it is, please provide a specification for furniture. Confirmed at pre-bid that this is not in scope. |
| | Answer: | Furniture is not part of the scope of work. |
| Item 55 | Question: | Sheet M102 details an exhaust hood and associated ductwork that must be demolished. Currently, the project documents do not show the ceiling grid below this duct being removed and replaced in order to accomplish the mechanical demo. Please confirm that the ceilings should be removed and replaced as part of this project. |
| | Answer: | The contractor must remove and replace ceilings to accomplish required work above. |
| Item 56 | Question: | A501 details several rooms needing P3 (whiteboard paint) and P1 (the standard paint color), but there is no indication as to which walls get P3. Please clarify the intent for the whiteboard paint. |
| | Answer: | There is no white board paint (P3) in the project. |
| Item 57 | Question: | Please provide additional information on the existing Building Automation System (BAS) installed in this building. Please include information on what needs to integrate, and be compatible, with this system and what can be a standalone (localized) system. |
| | Answer: | See section 23 09 00 Building Automation Systems, 1.1 SUMMARY. |
| Item 58 | Question: | Please confirm the mounting height of the wall temperature sensors. |
| | Answer: | Space temperature sensors with only temperature reporting functions may be placed at 60". Sensors with manual user input capability at 48". |
| Item 59 | Question: | Please confirm that surface mounted wiremold raceway will be acceptable when located on existing walls. |
| | Answer: | For work performed by Division 23, wiring should be concealed. For Division 26 work, surface mounted raceway is acceptable. |
| Item 60 | Question: | What are the work hours for this project? |
| | Answer: | 7 AM -5 PM |

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| Item 61 | Question: | Is there a desired phasing plan? |
| | Answer: | Third floor work to be completed and able to be occupied prior to starting fourth floor work. |
| Item 62 | Question: | Where will construction laydown be located? |
| | Answer: | The laydown for each floor will need to be on the floors being worked on. |
| Item 63 | Question: | Will contractors be required to pay a parking fee? If so, what will the fee be? |
| | Answer: | Yes, contractors will need to purchase parking permits to park on campus. The website for obtaining parking permits is: https://transportation.oregonstate.edu/parking/department-permits |
| Item 64 | Question: | Will background checks and badging be required? If so, what cost and time commitment will be required? |
| | Answer: | Background checks and badging will not be required. |
| Item 65 | Question: | Sheet A902/Door Schedule notes door type C, however the Door Type Legend shows only door types A and B. Please clarify. |
| | Answer: | See revised door schedule as part of this addendum. |
| Item 66 | Question: | Elevation 8 on A700 references sheet A902 for door and frame type. This opening is not noted on sheet A902. Please provide door & frame type for this opening. |
| | Answer: | The door is 4943A on the floor plan and the door schedule. The frame type is drawn in the frame type legend and is called out to match existing opening down the hall, also shown on 8/A700. |
| Item 67 | Question: | Please provide as-builts for Fire Sprinkler, Plumbing, Mechanical & Electrical. |
| | Answer: | As-builts are included in this addendum. |
| Item 68 | Question: | Is a hazardous material survey available for the site? |
| | Answer: | Assume no hazardous materials, but contractor will be responsible for notifying Owner is suspect materials are encountered. |
| Item 69 | Question: | Sheet A601 notes relocated 1x4 lay in fixture, however there are no salvaged 1x4 fixtures noted on the ceiling demo plans. Please confirm that the 1x4 lay in fixtures are owner provided. |
| | Answer: | There are (2) shown on the ceiling demo plan and only (1) shown to be relocated. |
| Item 70 | Question: | See Sheet A930. Please confirm that the 'New Furniture by Owner' note on the Furniture Legend refers to supply and install of furniture. |
| | Answer: | Confirmed. |

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| Item 71 | Question: | See Sheet A931. The floor plan legend notes a dashed line for P-3 Dry Erase Paint. The furniture plan notes that the dashed line is 14" H. Herman Miller Glass Stacking Panel Typ. Please confirm that P-3 Dry Erase Paint is not required at these areas? |
| | Answer: | There is no (P3) dry erase paint in the project |
| Item 72 | Question: | Please confirm that existing furnishings in areas that work occurs for this project will be removed by Owner. |
| | Answer: | Confirmed. |
| Item 73 | Question: | What is the deck height of Levels 3 and 4? |
| | Answer: | Level 3 – 24'-10" Level 4 – 37'-8" 12'-10" Floor to Floor |
| Item 74 | Question: | Where is storage for salvaged items located? |
| | Answer: | Must be stored on floors where work is occurring. |
| Item 75 | Question: | Is a freight elevator available for contractor use? If so, what hours is it available, and what is the size and weight capacity? |
| | Answer: | Freight elevator is available for contractor use. It is 6'-8" x 5'-4" x 8'-11" in height. The capacity is 3500 lbs. |
| Item 76 | Question: | Will the spaces that work will be occurring be occupied during construction? |
| | Answer: | Some of the offices and cubicle spaces will be occupied along the perimeter of the work areas. |

END OF ADDENDUM NO. 2

**OREGON STATE UNIVERSITY**

# BID FORM

PROJECT: VALLEY LIBRARY EXTENDED CAMPUS RECONFIGURATION

BID CLOSING: DECEMBER 5, 2018 at 2:00 PM PACIFIC TIME

BID OPENING: DECEMBER 5, 2018 at 2:00 PM PACIFIC TIME

FROM: _____
*Name of Contractor*

TO: Oregon State University ("Owner")
Construction Contracts Administration
644 SW 13th Street
Corvallis, Oregon 97333-4238

1. The Undersigned (*check one of the following and insert information requested*):

____a. An individual doing business under an assumed name registered under the laws of the State of _____; or

____b. A partnership registered under the laws of the State of _____; or

____c. A corporation organized under the laws of the State of _____; or

____d. A limited liability corporation/company organized under the laws of the State of _____;

hereby proposes to furnish all material and labor and perform all work hereinafter indicated for the above project in strict accordance with the Contract Documents for the Basic Bid as follows:

_____ Dollars ($_____)

and the Undersigned agrees to be bound by the following documents:

- Notice of Opportunity
- Instructions to Bidders
- Supplemental Instructions to Bidders
- Bid Bond
- Sample Contract
- Performance Bond and Payment Bond
- OSU General Conditions
- Supplemental OSU General Conditions
- Prevailing Wage Rates
- Payroll and Certified Statement Form
- Plans and Specifications
- Drawings and Details
- ADDENDA numbered ____ through____, inclusive *(fill in blanks)*

2. The work shall be completed within the time stipulated and specified in Division 1, Section 01 11 00, of the Specifications.

3. The Undersigned certifies that: (1) This Bid has been arrived at independently and is being submitted without collusion with and without any agreement, understanding, or planned common course of action with any other vendor of materials, supplies, equipment or services described in the invitation to bid designed to limit independent bidding or competition; and (2) The contents of the Bid have not been communicated by the Undersigned or its employees or agents to any person not an employee or agent of the Undersigned or its surety on any Bond furnished with the Bid and will not be communicated to such person prior to the official opening of the Bid.

4. The undersigned **HAS, HAS NOT** (*circle applicable status*) paid unemployment or income taxes in Oregon within the past 12 months and **HAS, HAS NOT** (*circle applicable status*) a business address in Oregon..

5. The Undersigned agrees, if awarded a contract, to comply with the provisions of ORS 279C.800 through 279C.870 pertaining to the payment of the prevailing rates of wage.

6. Contractor's CCB registration number is _____. As a condition to submitting a bid, a Contractor must be registered with the Oregon Construction Contractors Board in accordance with ORS 701.035 to 701.055, and disclose the registration number. Failure to register and disclose the number will render the bid unresponsive and it will be rejected, unless contrary to federal law.

7. The successful Bidder hereby certifies that all subcontractors who will perform construction work as described in ORS 701.005(2) were registered with the Construction Contractors Board in accordance with ORS 701.035 to 701.055 at the time the subcontractor(s) made a bid to work under the Contract.

8. The successful Bidder hereby certifies that, in compliance with the Worker's Compensation Law of the State of Oregon, its Worker's Compensation Insurance provider is _____, Policy No. _____, and that Contractor shall submit Certificates of Insurance as required.

9. Contractor's Project Manager for this project is: _____,
Office Phone: _____ Cell Phone: _____.

10. The Undersigned certifies that it has not discriminated against minority, women, or emerging small businesses in obtaining any subcontracts for this project.

11. Accompanying herewith is Bid Security which is equal to ten (10) percent of the total amount of the Basic Bid.

12. The Undersigned further agrees that the Bid Security accompanying the Bid is left in escrow with the Owner; that the amount thereof is the measure of liquidated damages which the Owner will sustain by the failure of the Undersigned to execute and deliver the above-named Agreement Form, Performance Bond and Payment Bond, and, that if the Undersigned defaults in either executing the Agreement Form or providing the Performance Bond and Payment Bond within twenty (20) calendar days after receiving the Contract Documents, then the Bid Security may become the property of the Owner at the Owner's option; but if the Bid is not accepted within thirty (30) calendar days of the time set for the opening of the Bids, or if the Undersigned executes and timely delivers said Agreement Form, Performance Bond and Payment Bond, the Bid Security shall be returned.

13. The Undersigned agrees, if awarded the Contract, to execute and deliver to Owner, within twenty (20) calendar days after receiving the Contract Documents, an Agreement Form and a satisfactory Performance Bond and Payment Bond, each in an amount equal to one hundred (100) percent of the Contract sum, using forms provided by the Owner. The surety requested to issue the

Performance Bond and Payment Bond will be: _____.
*(name of surety company - not insurance agency)*

The Undersigned hereby authorizes said surety company to disclose any information to the Owner concerning the Undersigned's ability to supply a Performance Bond and Payment Bond each in the amount of the Contract.

By signature below, Contractor agrees to be bound by this Bid.

NAME OF FIRM _____

ADDRESS _____

_____

FEDERAL TAX ID _____

TELEPHONE NO _____

FAX NO _____

SIGNATURE 1) _____
Sole Individual - Signature

_____
Sole Individual - Printed Name

or 2) _____
Partner

or 3) _____
Authorized Officer of Corporation - Signature

_____
Authorized Officer of Corporation Printed Name

(SEAL)

_____
Attested: Secretary of Corporation

*Payment information will be reported to the IRS under the name and taxpayer ID # provided above. Information not matching IRS records could subject Contractor to 31 percent backup withholding.*

***** END OF BID *****

**SECTION 08 71 01**

**DOOR HARDWARE**

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Hardware for wood doors.

1.2 RELATED REQUIREMENTS

A. Section 08 11 13 - Hollow Metal Frames.

B. Section 08 14 16 - Flush Wood Doors.

1.3 REFERENCE STANDARDS

A. 36 CFR 1191 - Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities; Final Rule; current edition; (ADA Standards for Accessible Design).

B. ANSI/ICC A117.1 - American National Standard for Accessible and Usable Buildings and Facilities; International Code Council; 2009.

C. DHI (LOCS) - Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames; Door and Hardware Institute; 2004.

D. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2013.

E. UL (BMD) - Building Materials Directory; Underwriters Laboratories Inc.; current edition.

1.4 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the manufacture, fabrication, and installation of products onto which door hardware will be installed.

B. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.

C. Convey Owner's keying requirements to manufacturers.

D. Preinstallation Meeting: Convene a preinstallation meeting one week prior to commencing work of this section; require attendance by all affected installers.

E. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.

1.5 SUBMITTALS

A. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project.

B. Samples: Prior to preparation of hardware schedule:
   1. Submit 1 sample of hinge, latchset, lockset, closer, and door actuator illustrating style, color, and finish.
   2. Samples will be returned to supplier.

C. Hardware Schedule: Submit for approval six copies of schedule per Division 1. Organize vertically formatted schedule into “Hardware Sets” with index of doors and headings, indicating complete designations of every item required for each door or opening. Include following information:
   1. Type, style, function, size, quantity and finish of hardware items.
      a. Use BHMA Finish codes per ANSI A156.18.
   2. Name, part number and manufacturer of each item.
   3. Fastenings and other pertinent information.
   4. Location of hardware set coordinated with floor plans and door schedule.
   5. Explanation of abbreviations, symbols, and codes contained in schedule.
   6. Mounting locations for hardware.

7. Door and frame sizes, materials, hand, rating, degrees of swing, and jamb depth.
8. List of manufacturers used and their nearest representative with address and phone number.
9. Catalog cuts.
10. Manufacturer’s technical data and installation instructions for electronic hardware.
11. Date of jobsite visit if existing conditions.
12. Cylinder Schedule less the keying. Include key system description and keys to be provided.
13. Provide point to point wiring and riser diagrams for each electric hardware application. Include electrical items provided by others where specified. Include a system description.

D. Keying Schedule: Submit for approval separate detailed keying schedule for Owner’s review after Hardware Schedule has been approved by Architect and keying requirements established with Owner.

E. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention.

F. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.

G. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

H. Closeout Submittals: Furnish 2 copies of the as-built/as-installed hardware schedule with closeout documents including copy of keying schedule, wiring diagrams, manufacturers installation instructions, and suppliers final inspection report.

1.6 QUALITY ASSURANCE

A. Supplier Qualifications:
1. Direct factory contract supplier who has been furnishing hardware in the projects vicinity for a period of not less then 5 years.
2. Employs a certified architectural hardware consultant (AHC), available at reasonable times during course Work for project hardware consultation to Owner, Architect and Contractor. Responsible for detailing, scheduling and ordering of finish hardware.
3. Supplier willing to agree in writing to maintain parts inventory of items supplied for future service to Owner.
4. Supplier must meet manufacturers requirements to provide and install power operators where specified. Hardware supplier shall provide an installation cost estimate to the GC at time of bid for GC to include in bid package. Local factory authorized installation companies can be obtained through the automatic operator representatives.

B. Hardware: New, free of defects, blemishes and excessive play. Obtain each kind of hardware (latch and locksets, exit devices, hinges and closers) from one manufacturer.

C. Exit Doors: Operable from inside with single motion without the use of a key or special knowledge or effort.

D. Notify Architect and Owner's Authorized Representative of any code conflicts before ordering material.

E. Fire-Rated Openings: In compliance with NFPA 80. Hardware UL10C/UBC-7-2 (positive pressure) compliant for given type/size opening and degree of label. Provide proper latching hardware, non-flaming door closers, approved-bearing hinges, plus resilient and required intumescent seals. Furnish openings complete.
1. Note: scheduled seals may exceed selected door manufacturer’s requirements. See 2.6.E for clarification.

F. Pre-Installation Meetings: Initiate and conduct with supplier, installer, and related trades through Architect. Coordinate materials and techniques, and sequence complex mechanical

and electrical hardware items and systems installation. Convene at least two weeks prior to commencement of related work.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Package hardware items individually; label and identify each package with door opening code to match hardware schedule.

1.8 WARRANTY

A. Closers: Ten years mechanical, 2 years electrical
B. Exit Devices: Three years mechanical, 1 year electrical.
C. Hinges: Life of Building.
D. Locksets Five years
E. Other Hardware: Two years.

1.9 MAINTENANCE:

A. Tools: After final adjustment of door hardware turn over to Owner tools furnished during construction used for installation and adjustment.

PART 2 PRODUCTS

2.1 MANUFACTURERS - BASIS OF DESIGN

A. Listed below are specified manufacturers and acceptable alternates:

| | B. ITEM: | MANUFACTURER: | ACCEPTABLE SUB: |
|---|---|---|---|
| C. | Hinges | (IVE) Ives | Bommer, Hager |
| D. | Locks | (SCH)Schlage | Owner’s Standard |
| E. | Cylinders | (SCH) Schlage | Owner's Standard |
| F. | Exit Devices | (VON) Von Duprin | Owner’s Standard |
| G. | Closers | (LCN) LCN | Owner’s Standard |
| H. | Flush Bolts | (IVE) Ives | Trimco |
| I. | Kickplates | (IVE) Ives | Trimco |
| J. | Thresholds | (NGP) NGP | Pemko |
| K. | Automatic Operators | (LCN) LCN | Owners Standard |
| L. | ADA Actuators | (SED) MS Sedco | Owner's Standard |

M. Provide hardware items required to complete the work in accordance with these specifications and manufacturers’ instructions.
   1. Include items inadvertently omitted from this specification. Note these items in submittal for review.

2.2 DOOR HARDWARE - GENERAL

A. Provide all hardware specified or required to make doors fully functional, compliant with applicable codes, and secure to the extent indicated.
B. Provide all items of a single type of the same model by the same manufacturer.
C. Provide products that comply with the following:
   1. Applicable provisions of federal, state, and local codes.
   2. ADA Standards for Accessible Design.
   3. ANSI/ICC A117.1, American National Standard for Accessible and Usable Buildings and Facilities.
   4. Fire-Rated Doors: NFPA 80.

5. All Hardware on Fire-Rated Doors: Listed and classified by UL as suitable for the purpose specified and indicated.
6. Hardware for Smoke and Draft Control Doors (Indicated as "S" on Drawings): Provide hardware that enables door assembly to comply with air leakage requirements of the applicable code.
7. Products Requiring Electrical Connection: Listed and classified by UL as suitable for the purpose specified and indicated.

D. Function: Lock and latch function numbers and descriptions of manufactures series as listed in hardware schedule.

E. Electrically Operated and/or Controlled Hardware: Provide all power supplies, power transfer hinges, relays, and interfaces required for proper operation; provide wiring between hardware and control components and to building power connection.

F. Finishes: Identified in schedule.

2.3 HANGING MEANS:

A. Conventional Hinges: Hinge open widths minimum, but, of sufficient throw to permit maximum door swing. Steel or stainless steel pins and concealed bearings.
1. Three hinges per leaf to 7 foot, 6 inch height. Add one for each additional 30 inches in height, or any fraction thereof.
a. Heavy weight hinges on all doors. 5 X 4 ½ on doors over 3 foot 5 inches in width.
b. Out swinging exterior doors: non-ferrous with non-removable (NRP) pins.
c. Non-ferrous material exteriors and at doors subject to corrosive atmospheric conditions.
d. Provide shims and shimming instructions for proper door adjustment.

2.4 LOCKSETS, LATCHSETS, DEADBOLTS:

A. Mortise locksets and latchsets:

B. Cylinders: Best 7 Pin Cylinders per owner's standard
1. Case: heavy gauge steel, handing field-changeable without disassembly.
a. Latchbolts: 3/4 inch throw with stainless steel inserts.
b. Lever Trim: through-bolted, accessible design.
c. Thumbturns: accessible design not requiring pinching or twisting motions to operate.
d. Deadbolts: stainless steel 1-inch throw.
e. Strikes: 16 gauge curved steel, bronze or brass with 1 inch deep box construction, lips of sufficient length to clear trim and protect clothing.

2.5 EXIT DEVICES/PANIC HARDWARE

A. Product: Von Duprin 99 series or approved equal.
1. General features:
a. Independent lab-tested 1,000,000 cycles.
1) Push-through touch pad design. No exposed touch bar fasteners, no exposed cavities when operated. Return stroke fluid dampeners and rubber bottoming dampeners, plus anti-rattle devices.
2) ¾” throw deadlocking latch bolts.
3) No exposed screws to show through glass doors.
4) Non-handed basic device design with center case interchangeable with all functions, no extra parts required to effect change of function.
5) Releasable with 32 lb. maximum pressure under 250 lb. load to the door.

B. Specific features:
1. Non-Fire Rated Devices: cylinder dogging.
a. Lever Trim: Breakaway type, forged brass or bronze escutcheon min.130” thickness, match lockset lever design.

b. Fire-Labeled Devices: UL label indicating “Fire Exit Hardware”. Vertical rod devices less bottom rod (LBR) unless otherwise scheduled.
c. Electrically Operated Devices: Single manufacturer source for electric latch retraction devices, electrically controlled trim, power transfers, power supplies, monitoring switches and controls.
d. Removable Mullions: Removable with single turn of building key. Securely reinstalled without need for key. Furnish storage brackets for securely stowing the mullion away from the door when removed.

2.6 CLOSERS

A. Surface Closers:
1. Full rack-and-pinion type cylinder with removable non-ferrous cover and cast aluminum body.
a. Thru-bolts at all doors. Non-sized and adjustable. Place closers inside building, stairs and rooms.
b. Plates, brackets and special templating when needed for interface with particular header, door and wall conditions and hardware.
c. Opening pressure: Exterior doors 8.5 lb., interior doors 5 lb., labeled fire doors 15 lb.
d. Separate adjusting valves for closing speed, latching speed and backcheck, fourth valve for delayed action where scheduled.
e. Heavy duty arms (PR) for doors scheduled with parallel arm units.

2.7 OTHER HARDWARE

A. Flush Bolts: Low operating force design.

B. Kick Plates: Four beveled edges,.050 inches minimum thickness, height and width as scheduled.
1. Sheet-metal screws of bronze or stainless steel to match other hardware.

C. Door Stops: Provide stops to protect walls, casework or other hardware.
1. Unless otherwise noted in Hardware Sets, provide wall type with appropriate fasteners. Where wall type cannot be used, provide floor type. If neither can be used, provide overhead type.

D. Thresholds: As scheduled and per details. Substitute products: certify that the products equal or exceed specified material’s thickness. Proposed substitutions: submit for approval.
1. Exteriors: Set in full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements in Division 7 “Thermal and Moisture Protection”. Non-ferrous ¼ inch fasteners and lead expansion shield anchors, or Red-Head #SFS-1420 (or approved equivalent) Flat Head Sleeve Anchors (SS/FHSL).
a. Sound control openings: Set in bed of mastic sealant.

E. Fasteners: Generally, exposed screws to be Phillips or Robertson drive. Pinned TORX drive at high security areas. Flat head sleeve anchors (FHSL) may be slotted drive. Sheet metal and wood screws: full-thread. Sleeve nuts: full length to prevent door compression.

F. Silencers: Interior hollow metal frames, 3 for single doors, 4 for pairs of doors. Omit where adhesive mounted seal occurs. Leave no unfilled/uncovered pre-punched silencer holes.

2.8 KEYING REQUIREMENTS:

A. Key System: Existing Best Key System. Initiate and conduct meeting(s) with Owner to determine system structure, furnish Owner’s written approval of the system.
1. Construction keying: brass keyed-alike temporary cores plus 10 operating keys. Temporary cores and keys remain property of hardware supplier.
2. Provide the following permanent keys:
a. 6 Grandmaster keys

b. 6 Masterkeys
c. 6 Construction keys
d. 1 Control Key
e. 1 Construction Control Key
f. 3 Keys per lock

B. Interchangeable Core cylinders at all cylinders.

C. Permanent cores: factory-keyed.

D. Permanent keys and cores: secured shipment direct from point of origination to Owner.

E. Bitting List: Secured shipment direct from point of origination to Owner upon completion.

F. Pinning for lock cylinders: provided by Owner

PART 3 EXECUTION

3.1 ACCEPTABLE INSTALLER

A. Factory trained, certified, and carries a factory-issued card certifying that person as a “Certified installer”. Alternative: can demonstrate suitably equivalent competence and experience.

3.2 PREPARATION

A. Ensure that walls and frames are square and plumb before hardware installation.

B. Clarify placement if new hardware is to be installed near existing doors/hardware scheduled to remain.

C. Mounting Heights: Locate hardware units at heights indicated in DHI’s recommended locations unless otherwise indicated or required to comply with governing regulations.

D. Existing frames and doors scheduled to receive new hardware: carefully remove existing hardware, tag and bag, and turn over to Owner.
1. Patch and fill wood frames and doors with solid wood stock or dowel material before cutting for new hardware. Do not reuse existing screw holes - - fill and re-pilot.
2. Metal doors/frames: Weld or fasten with screws: filler pieces in existing hardware cut-outs and mortises not scheduled for re-use by new hardware. Leave surfaces smooth - - no applied patches.

3.3 EXAMINATION

A. Verify that doors and frames are ready to receive work; labeled, fire-rated doors and frames are present and properly installed, and dimensions are as indicated on shop drawings.

B. Verify that electric power is available to power operated devices and of the correct characteristics.

3.4 INSTALLATION

A. Install hardware per manufacturer’s instructions and recommendations. do not install surface-mounted items until finishes have been completed on substrate. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate for proper installation and operation.
1. Gaskets: install jamb-applied gaskets before closers, overhead stops, rim strikes, etc. Install sweeps across bottoms of doors before astragals, cope sweeps around bottom pivots, trim astragals to tops of sweeps.
2. When hardware is to be attached to existing metal surface and insufficient reinforcement exists, use RivNuts, NutSerts or similar anchoring device for screws.

B. Use templates provided by hardware item manufacturer.

C. Install hardware on fire-rated doors and frames in accordance with code and NFPA 80.

D. Mounting heights for hardware from finished floor to center line of hardware item: As listed in Schedule, unless otherwise noted:

1. For steel doors and frames: Comply with DHI "Recommended Locations for Architectural Hardware for Steel Doors and Frames."

E. Locate floor stops not more than 4 inches from the wall.

F. Drill pilot holes for fasteners in wood doors and/or frames.

G. Lubricate and adjust existing hardware scheduled to remain. Carefully remove and give to Owner items not scheduled for reuse.

3.5 FIELD QUALITY CONTROL

A. Provide an Architectural Hardware Consultant to inspect installation and certify that hardware and installation has been furnished and installed in accordance with manufacturer's instructions and as specified.

3.6 ADJUSTING

A. Adjust and check for proper operation and function. Replace units, which cannot be adjusted to operate freely and smoothly.
1. Hardware damaged by improper installation or adjustment methods to be repaired or replaced to Owner's satisfaction

B. Inspection: Use hardware supplier. Include suppliers with closeout documents.

C. Follow-up inspection: Installer to provide letter of agreement to Owner that approximately 6 months after substantial completion, installer will visit Project with representatives of the manufacturers of the locking devices and door closers to accomplish following:
1. Re-adjust hardware.
2. Evaluate maintenance procedures and recommend changes or additions, and instruct Owner’s personnel.
3. Identify items that have deteriorated or failed.
4. Submit written report identifying problems and likely future problems.

3.7 CLEANING

A. Clean adjacent surfaces soiled by hardware installation. Clean finished hardware per manufacturer's instructions after final adjustments has been made. Replace items that cannot be cleaned to manufacturer's level of finish quality at no additional cost.

3.8 PROTECTION

A. Do not permit adjacent work to damage hardware or finish.

3.9 SCHEDULE OF FINISH HARDWARE.

**HW SET: 01**

| | | | | | |
|---|---|---|---|---|---|
| 3729 | 3731 | 3732 | 3772 | 3773 | 3774 |
| 4201 | 4202 | 4203 | 4204 | 4205 | 4206 |
| 4208 | 4209 | 4210 | 4211 | 4983 | 4984 |
| 4985 | 4986 | 4987 | | | |

EACH TO HAVE:

| QTY | | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|---|---|---|---|---|---|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 | 652 | IVE |
| 1 | EA | OFFICE/ENTRY LOCK | L9050L 17N L583-363 | 626 | SCH |
| | EA | MORTISE CYLINDER | 1E74 C265 RP3 | 626 | BES |
| 1 | EA | WALL STOP | WS406/407CVX | 630 | IVE |
| | | | PERIMETER SEALS BY FRAME MANUFACTURER | | |

**HW SET: 02**

4063 4064 4065 4560 4561

EACH TO HAVE:

| QTY | | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|---|---|---|---|---|---|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 | 652 | IVE |
| 1 | EA | OFFICE/ENTRY LOCK | L9050L 17N L583-363 | 626 | SCH |
| | EA | MORTISE CYLINDER | 1E74 C265 RP3 | 626 | BES |
| 1 | EA | SURFACE CLOSER | 4011 TBWMS | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS | 630 | IVE |
| 1 | EA | WALL STOP | WS406/407CVX | 630 | IVE |
| | | | PERIMETER SEALS BY FRAME MANUFACTURER | | |

**HW SET: 03**

4146 4563

EACH TO HAVE:

| QTY | | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|---|---|---|---|---|---|
| 3 | EA | HINGE | 5BB1 4.5 X 4.5 | 652 | IVE |
| 1 | EA | PASSAGE SET | L9010 17N | 626 | SCH |
| 1 | EA | SURFACE CLOSER | 4011 TBWMS | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS | 630 | IVE |
| 1 | EA | WALL STOP | WS406/407CVX | 630 | IVE |
| | | | PERIMETER SEALS BY FRAME MANUFACTURER | | |

**HW SET: 04**

4700

EACH TO HAVE:

| QTY | | DESCRIPTION | CATALOG NUMBER | FINISH | MFR |
|---|---|---|---|---|---|
| 3 | EA | HINGE | 5BB1HW 4.5 X 4.5 NRP | 652 | IVE |
| 1 | EA | PANIC HARDWARE | 99-L-06-1439 | 626 | VON |
| | EA | RIM CYLINDER | 1E72 S2 RP3 | 626 | BES |
| 1 | EA | SURFACE CLOSER | 4111 EDA TBWMS | 689 | LCN |
| 1 | EA | KICK PLATE | 8400 10" X 2" LDW B-CS | 630 | IVE |
| 1 | EA | WALL STOP | WS406/407CVX | 630 | IVE |
| | | | PERIMETER SEALS BY FRAME MANUFACTURER | | |

**END OF SECTION**

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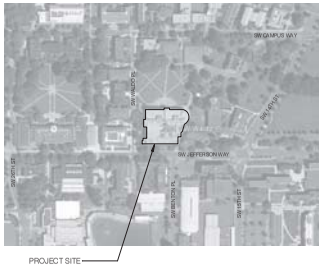
REPRESENTATIONAL IMAGE. IMAGE SHOWN MAY NOT BE AN EXACT REPRESENTATION OF ACTUAL DESIGN AND CONSTRUCTION.




1 VICINITY MAP
NTS

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CAPITAL PLANNING & FACILITIES SERVICES
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P: 541.737.2119
CONTACT: DAVID JACOBS, NCARB

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F: 503.227.4920
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CONTACT: PAUL FOOKS, PE

## DRAWING SHEET INDEX


COVER SHEET

ARCHITECTURAL
AG00 GENERAL NOTES
AG01 CODE ANALYSIS & FIRE/LIFE SAFETY PLANS
A100 DEMOLITION PLAN - THIRD FLOOR
A101 DEMOLITION PLAN - FOURTH FLOOR
A102 DEMOLITION CEILING PLAN - THIRD FLOOR
A103 DEMOLITION CEILING PLAN - FOURTH FLOOR
A200 FLOOR PLAN - THIRD FLOOR
A201 FLOOR PLAN - FOURTH FLOOR
A500 FINISH PLAN - THIRD FLOOR
A501 FINISH PLAN - FOURTH FLOOR
A600 REFLECTED CEILING PLAN - THIRD FLOOR
A601 REFLECTED CEILING PLAN - FOURTH FLOOR
A700 INTERIOR ELEVATIONS
A900 PARTITION TYPES AND DETAILS
A901 CEILING DETAILS
A902 DOOR SCHEDULE & DETAILS
A930 FURNITURE PLAN - THIRD FLOOR
A931 FURNITURE PLAN - FOURTH FLOOR

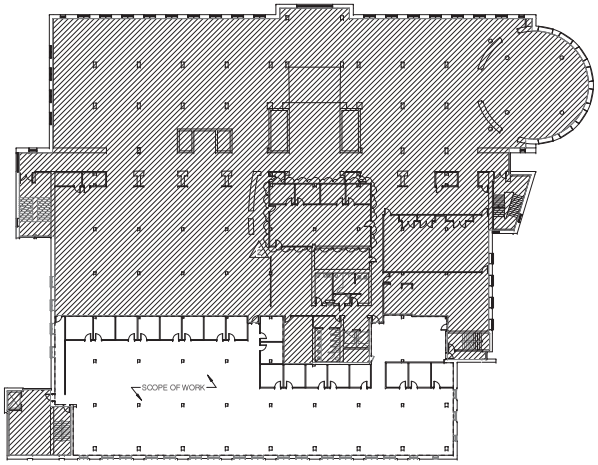

## DRAWING SHEET INDEX - BOD*

*BASIS OF DESIGN (BOD) BRIDGING DOCUMENTS.
DESIGN BUILD DEFERRED SUBMITTALS WILL BE SUBMITTED TO THE CITY BY THE CONTRACTOR.


PLUMBING
P001 PLUMBING LEGEND & GENERAL NOTES
P101 PLUMBING DEMOLITION - THIRD FLOOR
P102 PLUMBING DEMOLITION - FOURTH FLOOR
P111 PLUMBING PLAN - THIRD FLOOR
P112 PLUMBING PLAN - FOURTH FLOOR

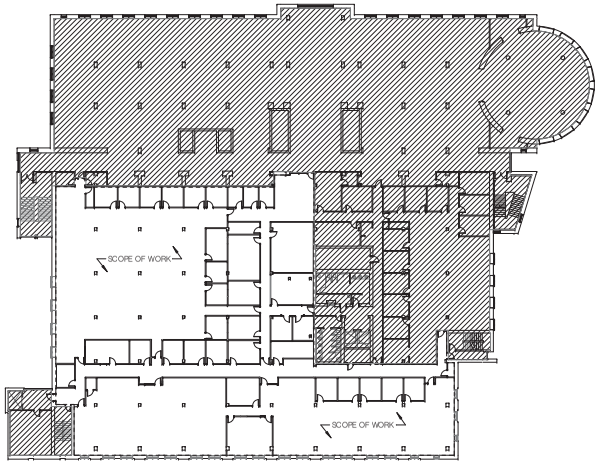
MECHANICAL
M001 MECHANICAL LEGEND & GENERAL NOTES
M101 MECHANICAL DEMOLITION - THIRD FLOOR
M102 MECHANICAL DEMOLITION - FOURTH FLOOR
M121 AIR DISTRIBUTION PLAN - THIRD FLOOR
M122 AIR DISTRIBUTION PLAN - FOURTH FLOOR
M161 ZONING PLAN - THIRD FLOOR
M162 ZONING PLAN - FOURTH FLOOR
*M2.3 FOR REFERENCE ONLY - NOT TO SCALE
*M2.4 FOR REFERENCE ONLY - NOT TO SCALE

ELECTRICAL
E001 ELECTRICAL LEGEND & GENERAL NOTES
E101 ELECTRICAL DEMOLITION - THIRD FLOOR
E102 ELECTRICAL DEMOLITION - FOURTH FLOOR
E111 LIGHTING PLAN - THIRD FLOOR
E112 LIGHTING PLAN - FOURTH FLOOR
E121 POWER DISTRIBUTION - THIRD FLOOR
E122 POWER DISTRIBUTION - FOURTH FLOOR
E131 LOW VOLTAGE PLAN - THIRD FLOOR
E132 LOW VOLTAGE PLAN - FOURTH FLOOR


AREA NOT IN PROJECT SCOPE

2 SCOPE OF WORK DIAGRAM - THIRD FLOOR
1" = 30'-0"




AREA NOT IN PROJECT SCOPE

3 SCOPE OF WORK DIAGRAM - FOURTH FLOOR
1" = 30'-0"

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HEA Project no. **17050**
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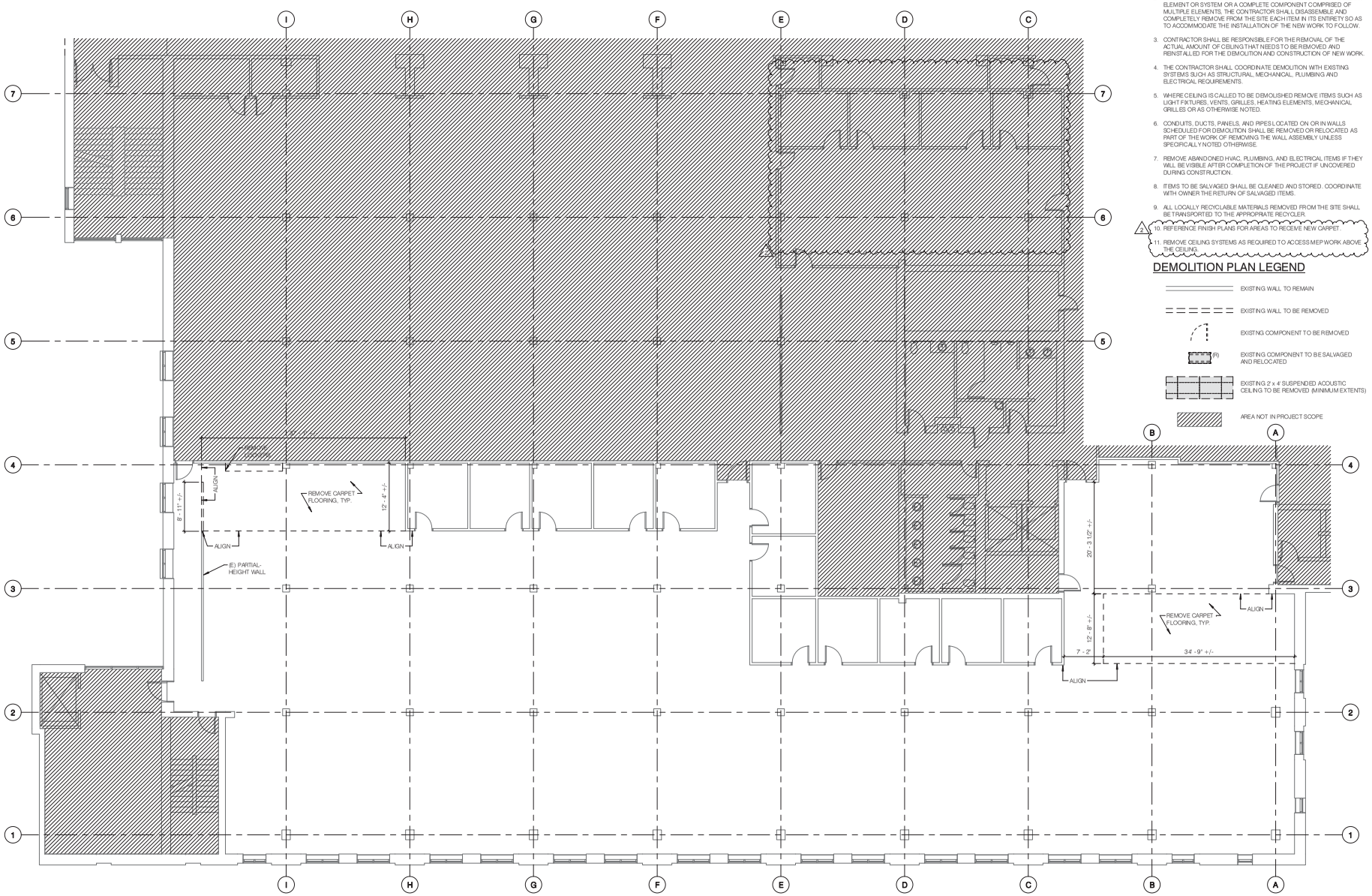


## DEMOLITION PLAN NOTES

1. SEE AG00 FOR GENERAL NOTES.
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3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE ACTUAL AMOUNT OF CEILING THAT NEEDS TO BE REMOVED AND REINSTALLED FOR THE DEMOLITION AND CONSTRUCTION OF NEW WORK.
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## DEMOLITION PLAN LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- EXISTING COMPONENT TO BE REMOVED
- (R) EXISTING COMPONENT TO BE SALVAGED AND RELOCATED
- EXISTING 2' x 4' SUSPENDED ACOUSTIC CEILING TO BE REMOVED (MINIMUM EXTENTS)
- AREA NOT IN PROJECT SCOPE

1 / A100 DEMOLITION PLAN - THIRD FLOOR
1/8" = 1'-0"

PROJECT NORTH

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Oregon State University

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| 2 | 11.26.18 | Addendum 2 |

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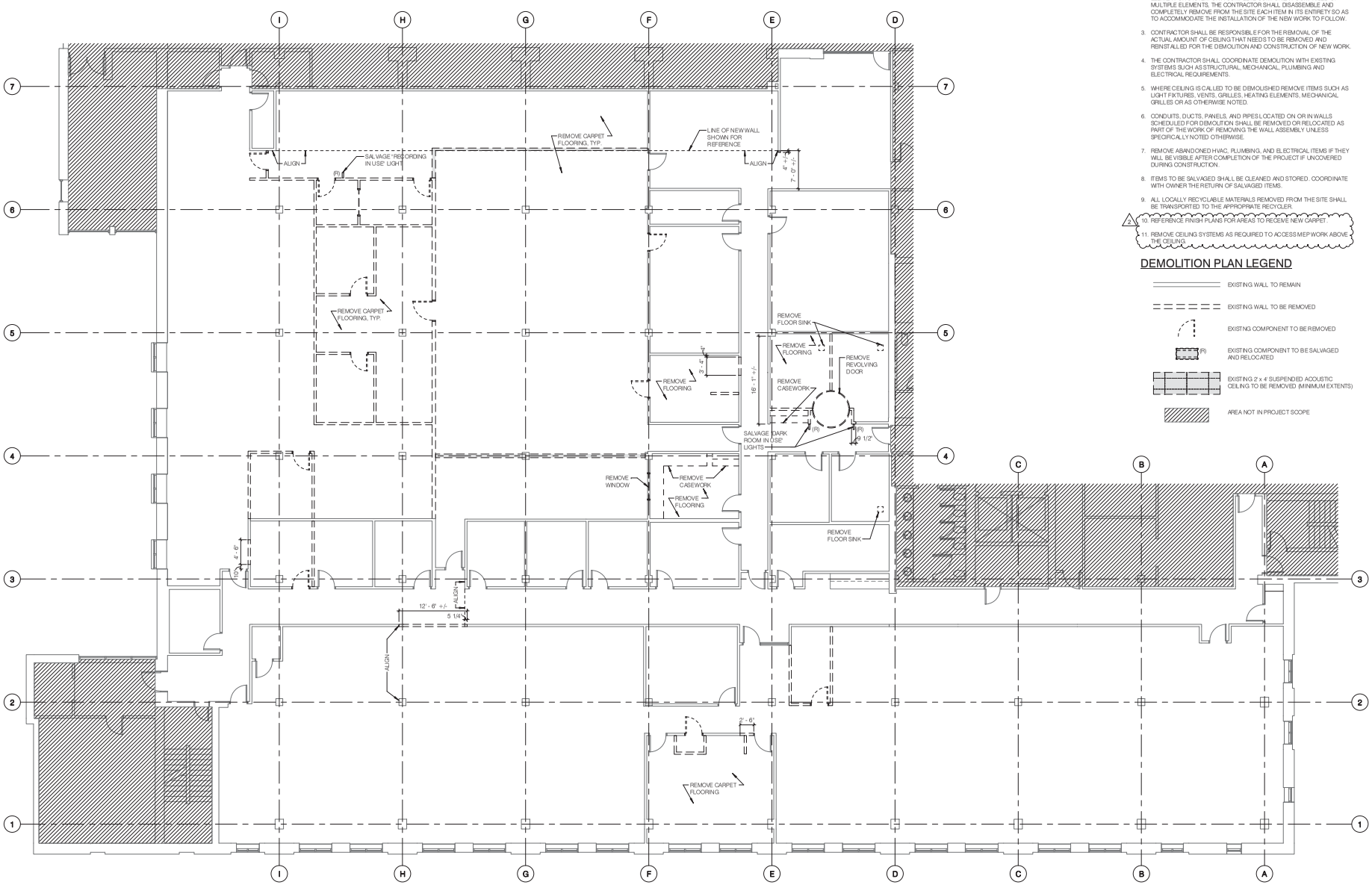


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1 A101 DEMOLITION PLAN - FOURTH FLOOR
1/8" = 1'-0"

PROJECT NORTH

0 2 4 8 16

Oregon State University

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DEMOLITION PLAN - FOURTH FLOOR

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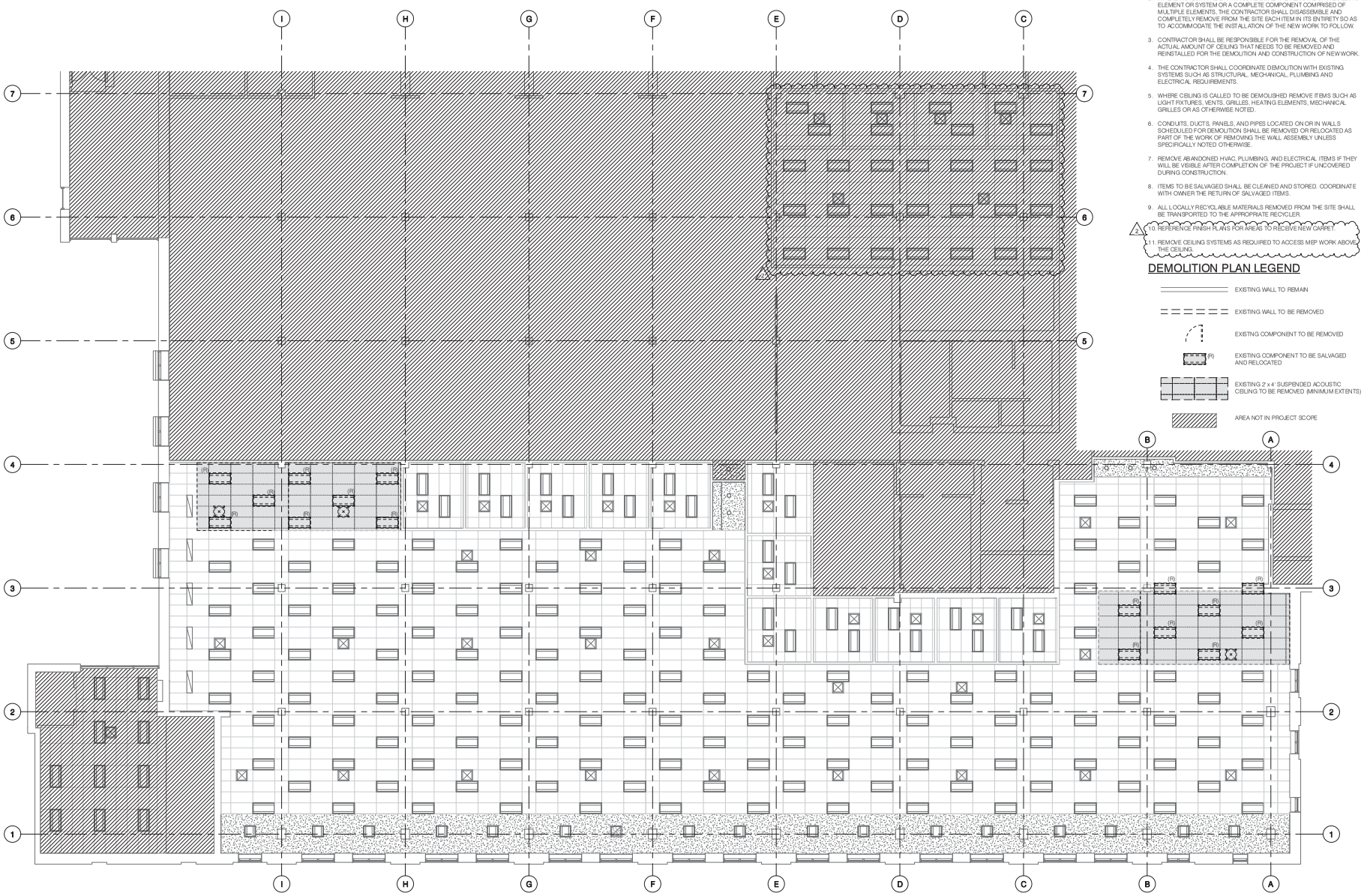


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## DEMOLITION PLAN LEGEND

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- AREA NOT IN PROJECT SCOPE

1 A102 DEMOLITION RCP - THIRD FLOOR
1/8" = 1'-0"

PROJECT NORTH

0 2 4 8 16

Oregon State University

REGISTERED ARCHITECT ALAN OSBORNE 3040 PORTLAND, OREGON STATE OF OREGON


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HEA Project no. 17050
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| 2 | 11.26.18 | Addendum 2 |

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**DEMOLITION CEILING PLAN - THIRD FLOOR**

**A102**

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3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE ACTUAL AMOUNT OF CEILING THAT NEEDS TO BE REMOVED AND REINSTALLED FOR THE DEMOLITION AND CONSTRUCTION OF NEW WORK.
4. THE CONTRACTOR SHALL COORDINATE DEMOLITION WITH EXISTING SYSTEMS SUCH AS STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL REQUIREMENTS.
5. WHERE CEILING IS CALLED TO BE DEMOLISHED REMOVE ITEMS SUCH AS LIGHT FIXTURES, VENTS, GRILLES, HEATING ELEMENTS, MECHANICAL GRILLES OR AS OTHERWISE NOTED.
6. CONDUITS, DUCTS, PANELS, AND PIPES LOCATED ON OR IN WALLS SCHEDULED FOR DEMOLITION SHALL BE REMOVED OR RELOCATED AS PART OF THE WORK OF REMOVING THE WALL ASSEMBLY UNLESS SPECIFICALLY NOTED OTHERWISE.
7. REMOVE ABANDONED HVAC, PLUMBING, AND ELECTRICAL ITEMS IF THEY WILL BE VISIBLE AFTER COMPLETION OF THE PROJECT IF UNCOVERED DURING CONSTRUCTION.
8. ITEMS TO BE SALVAGED SHALL BE CLEANED AND STORED. COORDINATE WITH OWNER THE RETURN OF SALVAGED ITEMS.
9. ALL LOCALLY RECYCLABLE MATERIALS REMOVED FROM THE SITE SHALL BE TRANSPORTED TO THE APPROPRIATE RECYCLER.
10. REFERENCE FINISH PLANS FOR AREAS TO RECEIVE NEW CARPET.
11. REMOVE CEILING SYSTEMS AS REQUIRED TO ACCESS MEP WORK ABOVE THE CEILING.

## DEMOLITION PLAN LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- EXISTING COMPONENT TO BE REMOVED
- (R) EXISTING COMPONENT TO BE SALVAGED AND RELOCATED
- EXISTING 2' x 4' SUSPENDED ACOUSTIC CEILING TO BE REMOVED (MINIMUM EXTENTS)
- AREA NOT IN PROJECT SCOPE

1 / A103 DEMOLITION RCP - FOURTH FLOOR
1/8" = 1'-0"
0 2 4 8 16

PROJECT NORTH

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DEMOLITION CEILING PLAN - FOURTH FLOOR

A103

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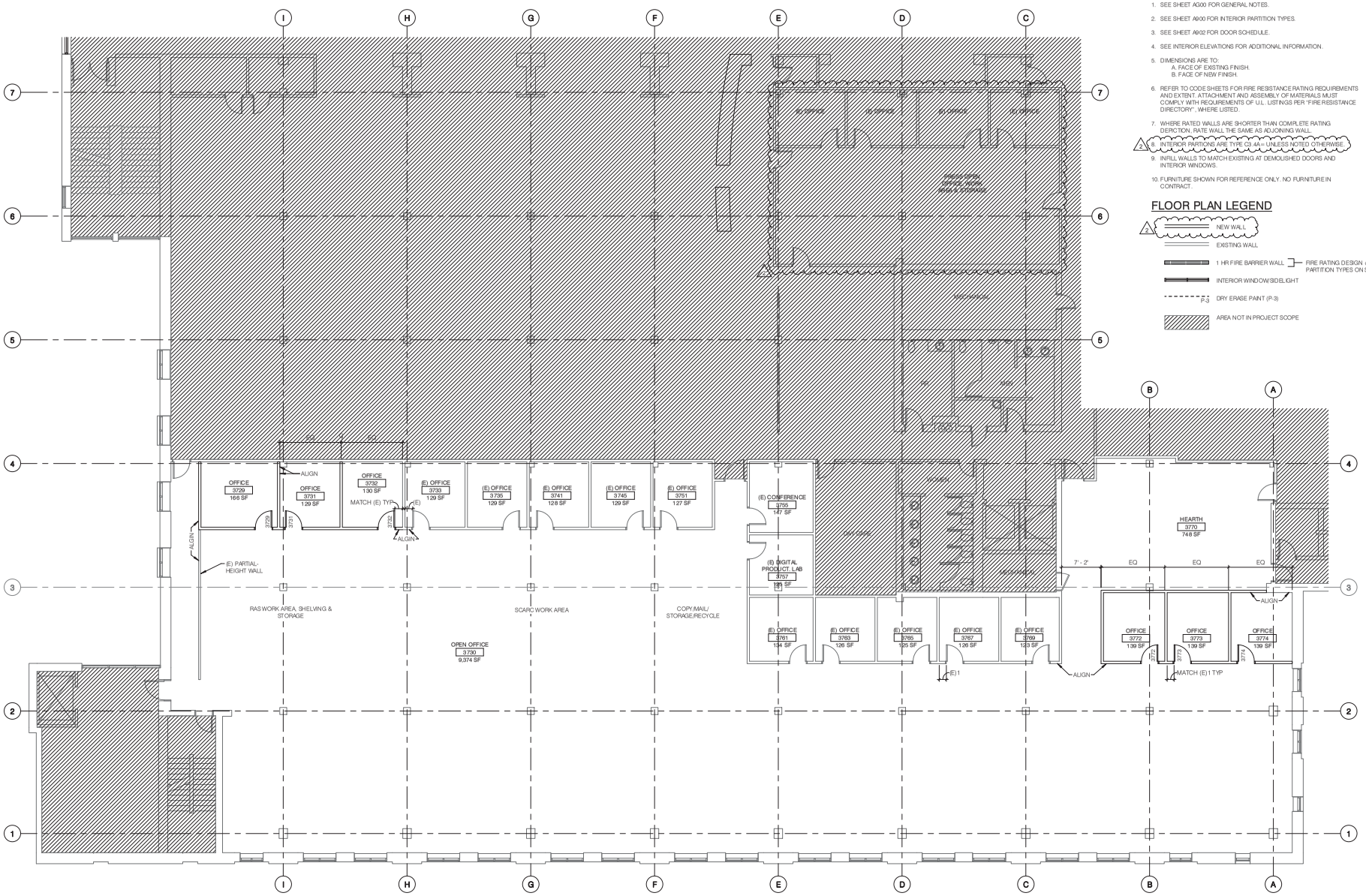


## FLOOR PLAN NOTES

1. SEE SHEET AG00 FOR GENERAL NOTES.
2. SEE SHEET A900 FOR INTERIOR PARTITION TYPES.
3. SEE SHEET A902 FOR DOOR SCHEDULE.
4. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
5. DIMENSIONS ARE TO:
   A. FACE OF EXISTING FINISH.
   B. FACE OF NEW FINISH.
6. REFER TO CODE SHEETS FOR FIRE RESISTANCE RATING REQUIREMENTS AND EXTENT. ATTACHMENT AND ASSEMBLY OF MATERIALS MUST COMPLY WITH REQUIREMENTS OF U.L. LISTINGS PER "FIRE RESISTANCE DIRECTORY", WHERE LISTED.
7. WHERE RATED WALLS ARE SHORTER THAN COMPLETE RATING DEFICTION, RATE WALL THE SAME AS ADJOINING WALL.
8. INTERIOR PARTITIONS ARE TYPE G3.4A-n UNLESS NOTED OTHERWISE.
9. INFILL WALLS TO MATCH EXISTING AT DEMOLISHED DOORS AND INTERIOR WINDOWS.
10. FURNITURE SHOWN FOR REFERENCE ONLY. NO FURNITURE IN CONTRACT.

## FLOOR PLAN LEGEND

- NEW WALL
- EXISTING WALL
- 1 HR FIRE BARRIER WALL — FIRE RATING DESIGN # PER PARTITION TYPES ON SHEET A900
- INTERIOR WINDOW/SIDELIGHT
- P-3 DRY ERASE PAINT (P-3)
- AREA NOT IN PROJECT SCOPE

1 A200 FLOOR PLAN - THIRD FLOOR
1/8" = 1'-0"
0 2 4 8 16'

PROJECT NORTH

Oregon State University

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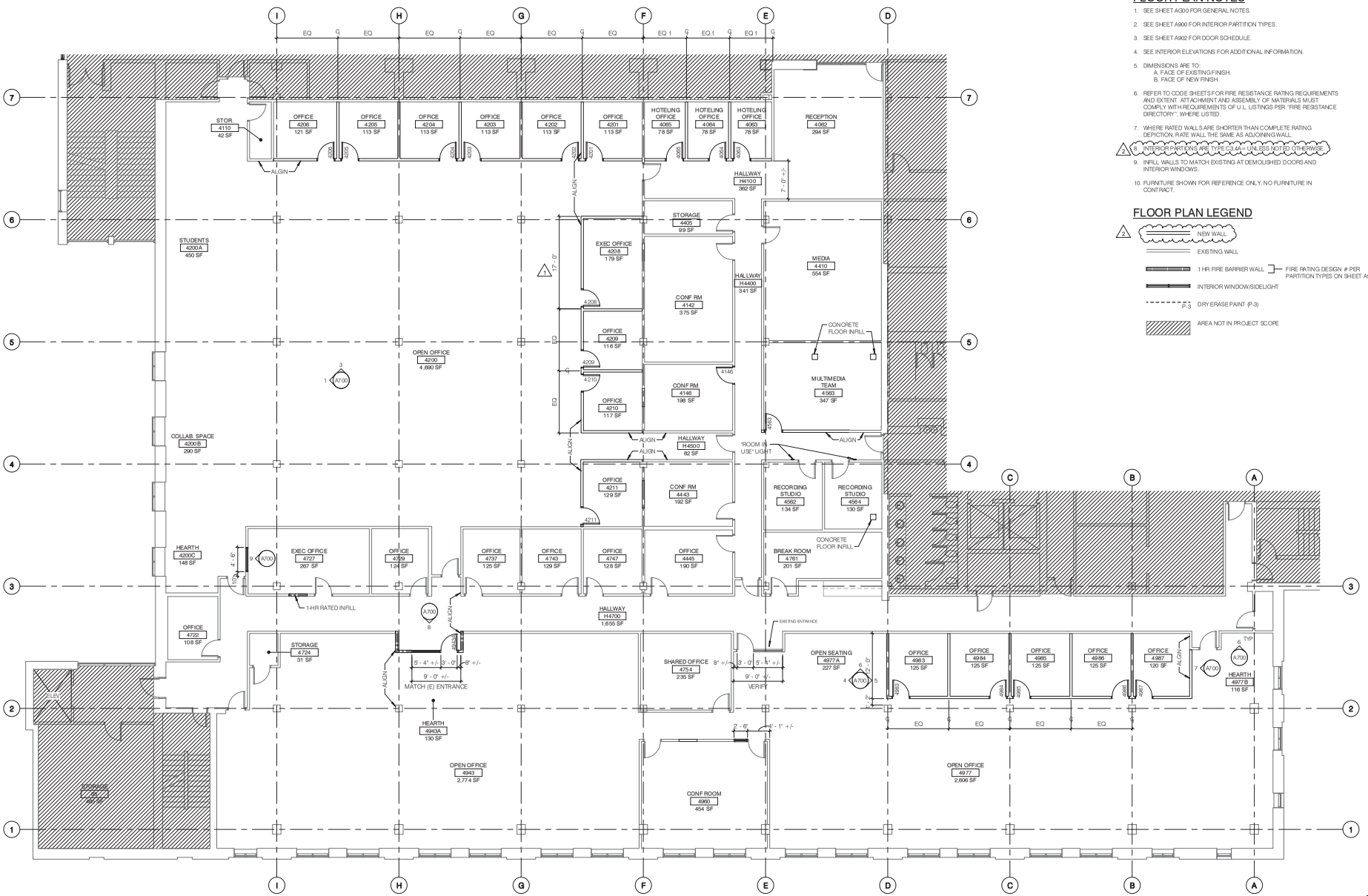


## FLOOR PLAN NOTES

1. SEE SHEET A000 FOR GENERAL NOTES.
2. SEE SHEET A900 FOR INTERIOR PARTITION TYPES.
3. SEE SHEET A902 FOR DOOR SCHEDULE.
4. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
5. DIMENSIONS ARE TO:
   A. FACE OF EXISTING FINISH.
   B. FACE OF NEW FINISH.
6. REFER TO CODE SHEETS FOR FIRE RESISTANCE RATING REQUIREMENTS AND EXTENT. ATTACHMENT AND ASSEMBLY OF MATERIALS MUST COMPLY WITH REQUIREMENTS OF U.L. LISTINGS PER "FIRE RESISTANCE DIRECTORY", WHERE LISTED.
7. WHERE RATED WALLS ARE SHORTER THAN COMPLETE RATING DEPICTION, RATE WALL THE SAME AS ADJOINING WALL.
8. INTERIOR PARTITIONS ARE TYPE G3.4A.a UNLESS NOTED OTHERWISE.
9. INFILL WALLS TO MATCH EXISTING AT DEMOLISHED DOORS AND INTERIOR WINDOWS.
10. FURNITURE SHOWN FOR REFERENCE ONLY. NO FURNITURE IN CONTRACT.

## FLOOR PLAN LEGEND

NEW WALL
EXISTING WALL
1 HR FIRE BARRIER WALL — FIRE RATING DESIGN # PER PARTITION TYPES ON SHEET A900
INTERIOR WINDOW/SIDELIGHT
(P-3) DRY ERASE PAINT (P-3)
AREA NOT IN PROJECT SCOPE

1 A201 FLOOR PLAN - FOURTH FLOOR
1/8" = 1'-0"

PROJECT NORTH

0 2 4 8 16'

Oregon State University

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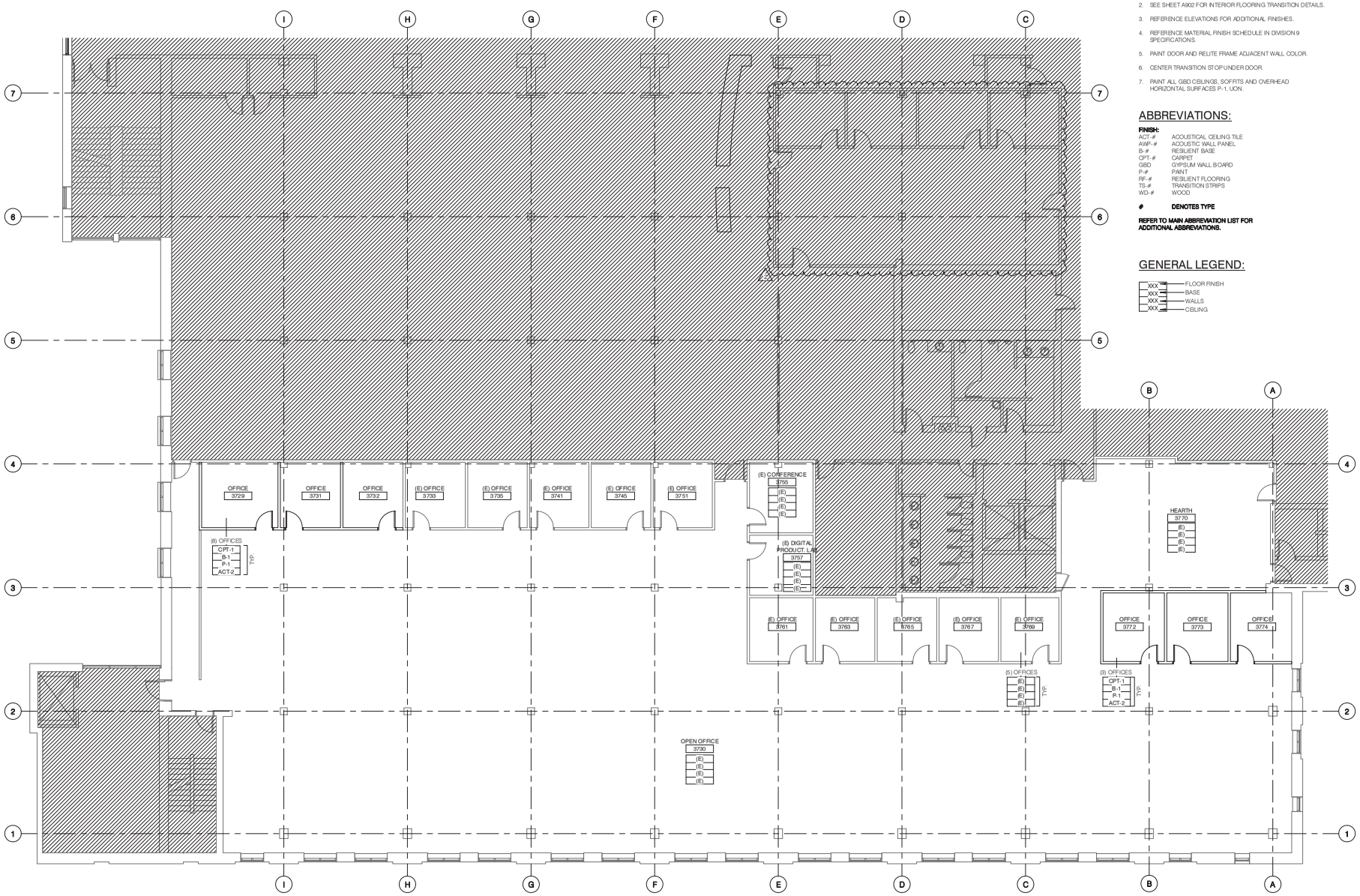


## GENERAL NOTES: FINISH PLANS

1. SEE SHEET A000 FOR GENERAL NOTES.
2. SEE SHEET A902 FOR INTERIOR FLOORING TRANSITION DETAILS.
3. REFERENCE ELEVATIONS FOR ADDITIONAL FINISHES.
4. REFERENCE MATERIAL FINISH SCHEDULE IN DIVISION 9 SPECIFICATIONS.
5. PAINT DOOR AND RELITE FRAME ADJACENT WALL COLOR.
6. CENTER TRANSITION STOP UNDER DOOR.
7. PAINT ALL GBD CEILINGS, SOFFITS AND OVERHEAD HORIZONTAL SURFACES P-1, UON.

## ABBREVIATIONS:

**FINISH:**

| | |
|---|---|
| ACT-# | ACOUSTICAL CEILING TILE |
| AWP-# | ACOUSTIC WALL PANEL |
| B-# | RESILIENT BASE |
| CPT-# | CARPET |
| GBD | GYPSUM WALL BOARD |
| P-# | PAINT |
| RF-# | RESILIENT FLOORING |
| TS-# | TRANSITION STRIPS |
| WD-# | WOOD |
| # | **DENOTES TYPE** |

**REFER TO MAIN ABBREVIATION LIST FOR ADDITIONAL ABBREVIATIONS.**

## GENERAL LEGEND:

XXX — FLOOR FINISH
XXX — BASE
XXX — WALLS
XXX — CEILING

1 / A500 FINISH PLAN - THIRD FLOOR
1/8" = 1'-0"
0' 2' 4' 8' 16'
PROJECT NORTH

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**FINISH PLAN - THIRD FLOOR**

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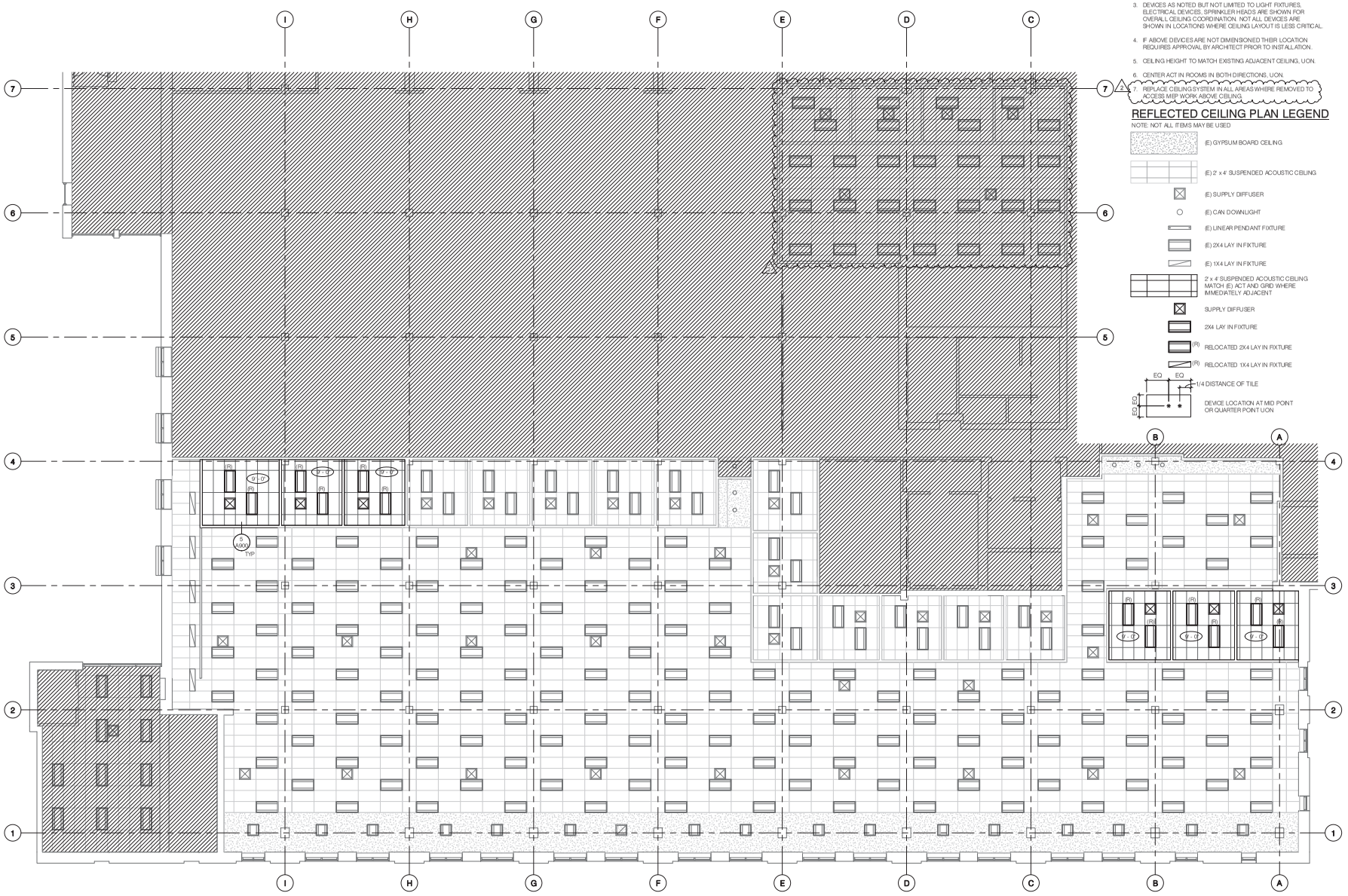

## REFLECTED CEILING PLAN NOTES

1. SEE A000 FOR GENERAL NOTES.
2. EXISTING LIGHT FIXTURES TO REMAIN. REINSTALL EXISTING FIXTURES AS INDICATED. INFILL FIXTURES TO MATCH EXISTING.
3. DEVICES AS NOTED BUT NOT LIMITED TO LIGHT FIXTURES, ELECTRICAL DEVICES, SPRINKLER HEADS ARE SHOWN FOR OVERALL CEILING COORDINATION. NOT ALL DEVICES ARE SHOWN IN LOCATIONS WHERE CEILING LAYOUT IS LESS CRITICAL.
4. IF ABOVE DEVICES ARE NOT DIMENSIONED THEIR LOCATION REQUIRES APPROVAL BY ARCHITECT PRIOR TO INSTALLATION.
5. CEILING HEIGHT TO MATCH EXISTING ADJACENT CEILING, UON.
6. CENTER ACT IN ROOMS IN BOTH DIRECTIONS, UON.
7. REPLACE CEILING SYSTEM IN ALL AREAS WHERE REMOVED TO ACCESS MEP WORK ABOVE CEILING.

## REFLECTED CEILING PLAN LEGEND

NOTE: NOT ALL ITEMS MAY BE USED

- (E) GYPSUM BOARD CEILING
- (E) 2' x 4' SUSPENDED ACOUSTIC CEILING
- (E) SUPPLY DIFFUSER
- (E) CAN DOWNLIGHT
- (E) LINEAR PENDANT FIXTURE
- (E) 2X4 LAY IN FIXTURE
- (E) 1X4 LAY IN FIXTURE
- 2' x 4' SUSPENDED ACOUSTIC CEILING MATCH (E) ACT AND GRID WHERE IMMEDIATELY ADJACENT
- SUPPLY DIFFUSER
- 2X4 LAY IN FIXTURE
- (R) RELOCATED 2X4 LAY IN FIXTURE
- (R) RELOCATED 1X4 LAY IN FIXTURE
- EQ EQ 1/4 DISTANCE OF TILE
- EQ EQ DEVICE LOCATION AT MID POINT OR QUARTER POINT UON

1 A600 RCP - THIRD FLOOR
1/8" = 1'-0"

PROJECT NORTH

0' 2' 4' 8' 16'

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REFLECTED CEILING PLAN - THIRD FLOOR

A600

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ALAN OSBORNE 3046 PORTLAND, OREGON REGISTERED ARCHITECT STATE OF OREGON

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## REFLECTED CEILING PLAN NOTES

1. SEE A000 FOR GENERAL NOTES.
2. EXISTING LIGHT FIXTURES TO REMAIN. REINSTALL EXISTING FIXTURES AS INDICATED. INFILL FIXTURES TO MATCH EXISTING.
3. DEVICES AS NOTED BUT NOT LIMITED TO LIGHT FIXTURES, ELECTRICAL DEVICES, SPRINKLER HEADS ARE SHOWN FOR OVERALL CEILING COORDINATION. NOT ALL DEVICES ARE SHOWN IN LOCATIONS WHERE CEILING LAYOUT IS LESS CRITICAL.
4. IF ABOVE DEVICES ARE NOT DIMENSIONED THEIR LOCATION REQUIRES APPROVAL BY ARCHITECT PRIOR TO INSTALLATION.
5. CEILING HEIGHT TO MATCH EXISTING ADJACENT CEILING, U.O.N.
6. CENTER ACT IN ROOMS IN BOTH DIRECTIONS, U.O.N.
7. REPLACE CEILING SYSTEM IN ALL AREAS WHERE REMOVED TO ACCESS MEP WORK ABOVE CEILING.

## REFLECTED CEILING PLAN LEGEND

NOTE: NOT ALL ITEMS MAY BE USED

- (E) GYPSUM BOARD CEILING
- (E) 2' x 4' SUSPENDED ACOUSTIC CEILING
- (E) SUPPLY DIFFUSER
- (E) CAN DOWNLIGHT
- (E) LINEAR PENDANT FIXTURE
- (E) 2X4 LAY IN FIXTURE
- (E) 1X4 LAY IN FIXTURE
- 2' x 4' SUSPENDED ACOUSTIC CEILING MATCH (E) ACT AND GRID WHERE IMMEDIATELY ADJACENT
- SUPPLY DIFFUSER
- 2X4 LAY IN FIXTURE
- (R) RELOCATED 2X4 LAY IN FIXTURE
- (R) RELOCATED 1X4 LAY IN FIXTURE
- EQ EQ 1/4 DISTANCE OF TILE
- EQ EQ DEVICE LOCATION AT MID POINT OR QUARTER POINT U.O.N.

1 A601 RCP - FOURTH FLOOR
1/8" = 1'-0"

PROJECT NORTH

0' 2' 4' 8' 16'

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**REFLECTED CEILING PLAN - FOURTH FLOOR**

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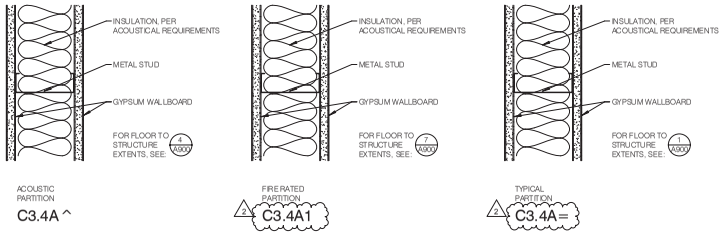
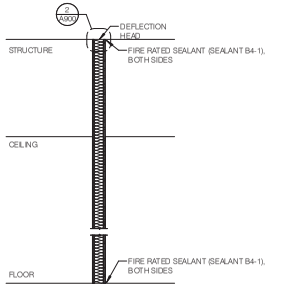
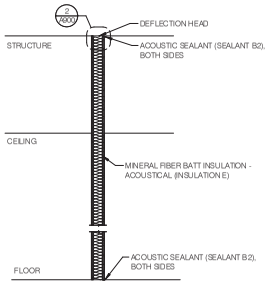
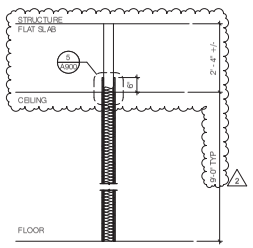


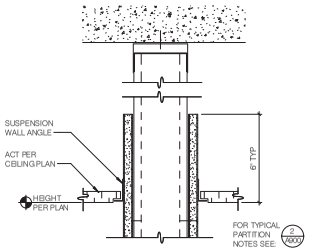

7/A900 FIRE RATED INTERIOR WALL AT CORRIDOR
1/2" = 1'-0"



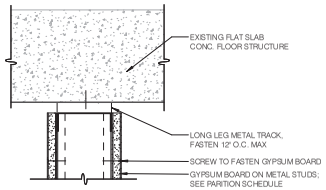

4/A900 ACOUSTICAL INTERIOR WALL
1/2" = 1'-0"



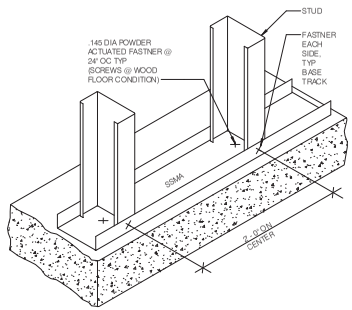

1/A900 TYPICAL INTERIOR WALL
1/2" = 1'-0"



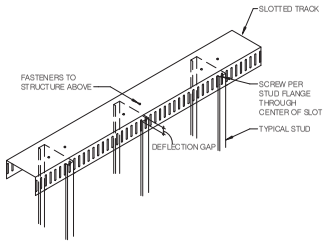

5/A900 PARTITION DETAIL AT ACT
3" = 1'-0"




2/A900 DEFLECTION HEAD
3" = 1'-0"




6/A900 TYPICAL FRAMING CONDITION - ATTACHMENT TO SLAB
NOT TO SCALE

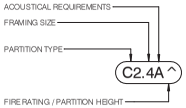



3/A900 DEFLECTION HEAD - SLOTTED TRACK
NOT TO SCALE

## GENERAL NOTES

1. COORDINATE WALLS TAGGED IN DRAWINGS WITH CONFIGURATIONS SHOWN ON THIS SHEET.
2. METAL STUDS - 33 MILS U.O.N. OR AS REQUIRED BY FIRE RATING OR SPAN, WHICHEVER IS STRICTEST.
3. METAL STUD SPACING AT 16" OC U.O.N., OR AS REQUIRED BY FIRE RATING, WHICHEVER IS STRICTEST.
4. 5/8" GYPSUM WALLBOARD, U.O.N.
5. WALLS TO BE FULLY BRACED (SHEATHED) TO ABOVE FINISH CEILING, U.O.N. 8'-0" MAX SPAN ABOVE BRACING.
6. MECHANICAL BRACING SHALL BE AT MAX SPACING INDICATED OR SHEATHING BOTH SIDES OF WALL.
7. ATTACH WALLS TO FLOOR OR FLOOR STRUCTURE ABOVE, U.O.N.
8. MAINTAIN FIRE RATING AROUND STRUCTURAL ELEMENTS AND BEHIND AND AROUND FIRE EXTINGUISHER CABINETS, ELECTRICAL CABINETS, AND OTHER RECESSESS.
9. PERIMETER PENETRATIONS OF SOUND-RATED PARTITIONS SHALL BE ACOUSTICALLY SEALED. ACHIEVE INDICATED STC RATING WHEN NOTED.
10. PARTITIONS AND CEILINGS AT ALL GRAB BARS, PLUMBING FIXTURES, WALL CABINETS, HARDWARE, WALL MOUNTED LIGHT FIXTURES AND ANY WALL MOUNTED ACCESSORIES REQUIRING SUPPORT SHALL HAVE SOLID WOOD BLOCKING OR APPROVED SHEET METAL BACKING SECURED TO WALL FRAMING.
11. FINISH MATERIALS SUCH AS TILE, WALL PANELING, TRIM, BASE, ETC. ARE NOT SHOWN AS AN INTEGRAL PART OF PARTITION TYPE. REFER TO FINISH PLAN AND INTERIOR ELEVATIONS.

## INTERIOR PARTITION TYPE TAG



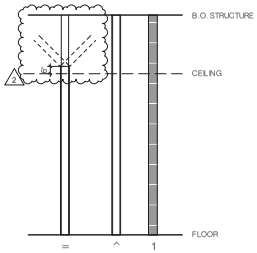

## STUD FRAMING SIZE

| ID | SIZE |
|---|---|
| 1 | 1 5/8" |
| 2 | 2 1/2" |
| 3 | 3 5/8" |
| 4 | 4" |
| 6 | 6" |
| 8 | 8" |

## ACOUSTICAL REQUIREMENTS

| ID | REQUIREMENT |
|---|---|
| N | NO INSULATION |
| A | UNFACED SOUND ATTENUATION BATT, FULL HEIGHT OF CAVITY, ALL STUD BAYS |

## PARTITION HEIGHT DESIGNATION




KEY

| | |
|---|---|
| = | TO UNDERSIDE OF CEILING. BRACE FRAMING AS REQUIRED |
| ^ | EXTEND STUDS AND GYPSUM WALLBOARD TO B.O. STRUCTURE ABOVE |
| 1 | (1) HOUR FIRE RATED ASSEMBLY |

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PARTITION TYPES AND DETAILS

A900

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## DOOR SCHEDULE

| ROOM NAME | NO. | TYPE | DOOR SIZE WIDTH | DOOR SIZE HEIGHT | DOOR MATERIAL | DOOR FINISH | FRAME TYPE | FRAME MATERIAL | FRAME FINISH | HARDWARE GROUP | ASSEMBLY RATING | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OPEN OFFICE | 3729 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 3731 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 3732 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 3772 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 3773 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 3774 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| HOTELING OFFICE | 4063 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 2 | -- | |
| HOTELING OFFICE | 4064 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 2 | -- | |
| HOTELING OFFICE | 4065 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 2 | -- | |
| CONF RM | 4146 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 3 | -- | |
| OFFICE | 4201 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 4202 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 4203 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 4204 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 4205 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 4206 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| EXEC OFFICE | 4208 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OPEN OFFICE | 4209 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 4210 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 4211 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| MULTIMEDIA TEAM | 4563 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 3 | -- | |
| HEARTH | 4943A | A | 3' - 0" | 8' - 9 1/2" | WD | CLR | 2 | HM | PT | 4 | 20-MIN | MATCH EXISTING ENTRANCE. SEE ELEV |
| OFFICE | 4983 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 4984 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 4985 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 4986 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |
| OFFICE | 4987 | B | 3' - 0" | 7' - 0" | WD | CLR | 1 | HM | PT | 1 | -- | |

## ABBREVIATIONS: DOOR SCHEDULE

**MATERIAL:**

| | |
|---|---|
| ALUM | ALUMINUM |
| HM | HOLLOW METAL |
| STL | STEEL |
| WD | WOOD |
| GL | GLASS |
| PG | RATED GLASS, 20 MINUTES |
| TG | TEMPERED GLAZING, ANSI Z97.1 CLASS A |

**REFER TO MAIN ABBREVIATION LIST FOR ADDITIONAL ABBREVIATIONS.**

**FINISH:**

| | |
|---|---|
| ANOD | ANODIZED |
| CLR | CLEAR |
| PT # | PAINT |

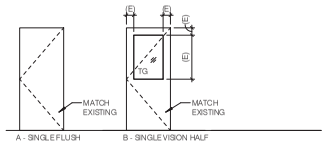
**LOCK FUNCTION:**

| | |
|---|---|
| PA | PASSAGE |
| PR | PRIVACY |
| E | ENTRANCE/OFFICE |
| C | CLASSROOM |
| S | STOREROOM |
| PP | PUSH/PULL |

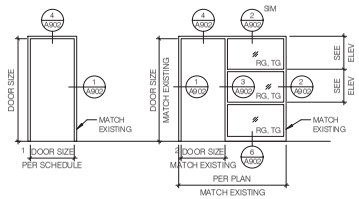
## DOOR SCHEDULE GENERAL NOTES

1. THICKNESS OF DOOR 1 3/4" UNLESS NOTED OTHERWISE.
2. PROVIDE ADA COMPLIANT LEVER HARDWARE AT ALL HINGED DOORS, TYPICAL.
3. PROVIDE DOOR SILENCERS WHERE GASKETING IS NOT SPECIFIED. THE COLOR OF BRUSH GASKETING (IF USED) SHALL MATCH THE COLOR OF SURROUNDING FRAME.
4. ALL GLAZING IN DOORS AND FRAMES TO BE TEMPERED GLAZING (TG) OR LAMINATED GLAZING (LG), UNLESS OTHERWISE NOTED.
5. EACH PANE OF TEMPERED OR LAMINATED GLASS SHALL BE PERMANENTLY IDENTIFIED BY MANUFACTURER WITH A MARK THAT ONCE APPLIED, CANNOT BE REMOVED WITHOUT BEING DESTROYED.
6. THE OPENING FORCE OF DOORS ALONG AN ACCESSIBLE ROUTE SHALL NOT EXCEED 8 1/2 POUNDS-FORCE FOR EXTERIOR DOORS AND 5 POUNDS-FORCE FOR INTERIOR DOORS.
7. WHERE 'MATCH EXISTING' IS INDICATED, MATCH THE DIMENSIONS, MATERIALS, FINISHES AND DETAILS OF IMMEDIATELY ADJACENT EXISTING DOORS AND FRAMES. MULTIPLE TYPES OF DOORS AND FRAMES EXIST WITHIN THE PROJECT SCOPE. CONFIRM ASSUMPTIONS WITH ARCHITECT.

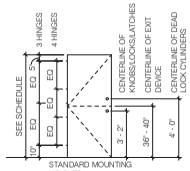
## DOOR TYPE LEGEND



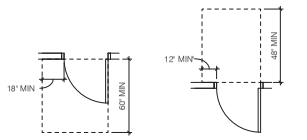

## FRAME TYPE LEGEND

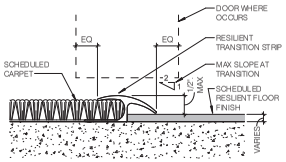



## STANDARD MOUNTING HEIGHTS

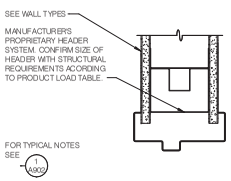



## TYPICAL DOOR CLEARANCES

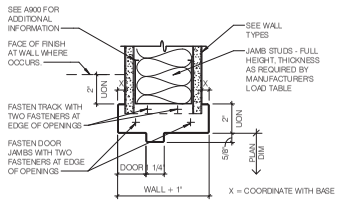


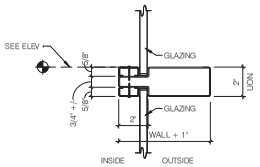

7 A902 CARPET TO RESILIENT
12" = 1'-0"



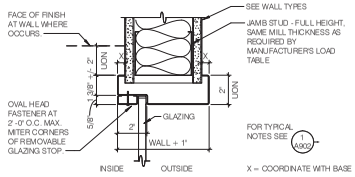

4 A902 HM DOOR FRAME - HEAD
3" = 1'-0"



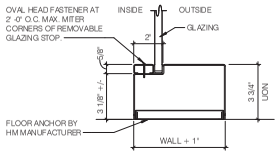

1 A902 HM DOOR FRAME - JAMB
3" = 1'-0"



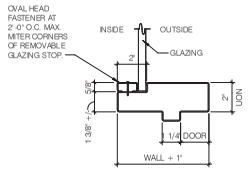

5 A902 HM RELITE FRAME - HORIZ. MULLION
3" = 1'-0"




2 A902 HM RELITE FRAME - JAMB
3" = 1'-0"




6 A902 HM RELITE FRAME - BASE
3" = 1'-0"




3 A902 HM RELITE FRAME AT DOOR
3" = 1'-0"

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**OREGON STATE UNIVERSITY**

**VALLEY LIBRARY 3RD & 4TH FLOOR TI**
**201 SW WALDO PL.,**
**CORVALLIS, OR 97331**

HEA Project no. **17050**
Date: **9 October 2018**
**CONSTRUCTION SET**

Revisions:

| | | |
|---|---|---|
| 1 | 11.09.18 | Addendum 1 |
| 2 | 11.26.18 | Addendum 2 |

Drawn by: SB
Checked by: DR
Sheet:
**DOOR SCHEDULE & DETAILS**

CONSTRUCTION SET

**A902**


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## FLOOR PLAN NOTES

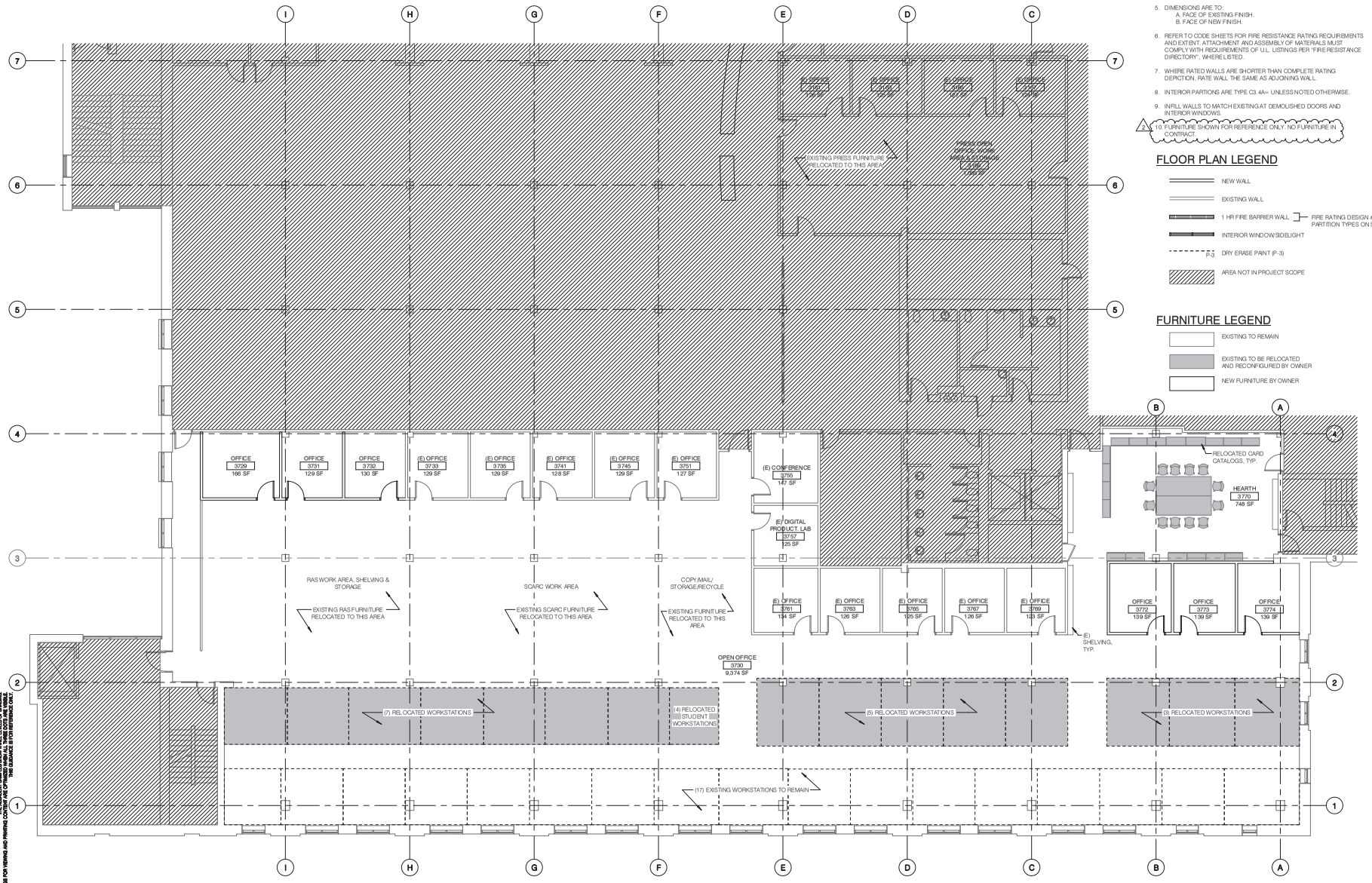
1. SEE SHEET A000 FOR GENERAL NOTES.
2. SEE SHEET A900 FOR INTERIOR PARTITION TYPES.
3. SEE SHEET A902 FOR DOOR SCHEDULE.
4. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
5. DIMENSIONS ARE TO:
   A. FACE OF EXISTING FINISH.
   B. FACE OF NEW FINISH.
6. REFER TO CODE SHEETS FOR FIRE RESISTANCE RATING REQUIREMENTS AND EXTENT. ATTACHMENT AND ASSEMBLY OF MATERIALS MUST COMPLY WITH REQUIREMENTS OF U.L. LISTINGS PER "FIRE RESISTANCE DIRECTORY", WHERE LISTED.
7. WHERE RATED WALLS ARE SHORTER THAN COMPLETE RATING DEPICTION, RATE WALL THE SAME AS ADJOINING WALL.
8. INTERIOR PARTIONS ARE TYPE C3, 4A= UNLESS NOTED OTHERWISE.
9. INFILL WALLS TO MATCH EXISTING AT DEMOLISHED DOORS AND INTERIOR WINDOWS.
10. FURNITURE SHOWN FOR REFERENCE ONLY. NO FURNITURE IN CONTRACT.

## FLOOR PLAN LEGEND

- NEW WALL
- EXISTING WALL
- 1 HR FIRE BARRIER WALL — FIRE RATING DESIGN # PER PARTITION TYPES ON SHEET A900
- INTERIOR WINDOW/SIDELIGHT
- P-3 DRY ERASE PAINT (P-3)
- AREA NOT IN PROJECT SCOPE

## FURNITURE LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE RELOCATED AND RECONFIGURED BY OWNER
- NEW FURNITURE BY OWNER




1 A930 FURNITURE PLAN - THIRD FLOOR
1/8" = 1'-0"

PROJECT NORTH

0 2 4 8 16

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|---|---|---|
| 2 | 11.26.18 | Addendum 2 |

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Checked by: DR
Sheet:

FURNITURE PLAN - THIRD FLOOR

CONSTRUCTION SET

A930

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THIS GUIDANCE IS FOR REFERENCE ONLY.

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## FLOOR PLAN NOTES

1. SEE SHEET A000 FOR GENERAL NOTES.
2. SEE SHEET A900 FOR INTERIOR PARTITION TYPES.
3. SEE SHEET A902 FOR DOOR SCHEDULE.
4. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
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   B. FACE OF NEW FINISH.
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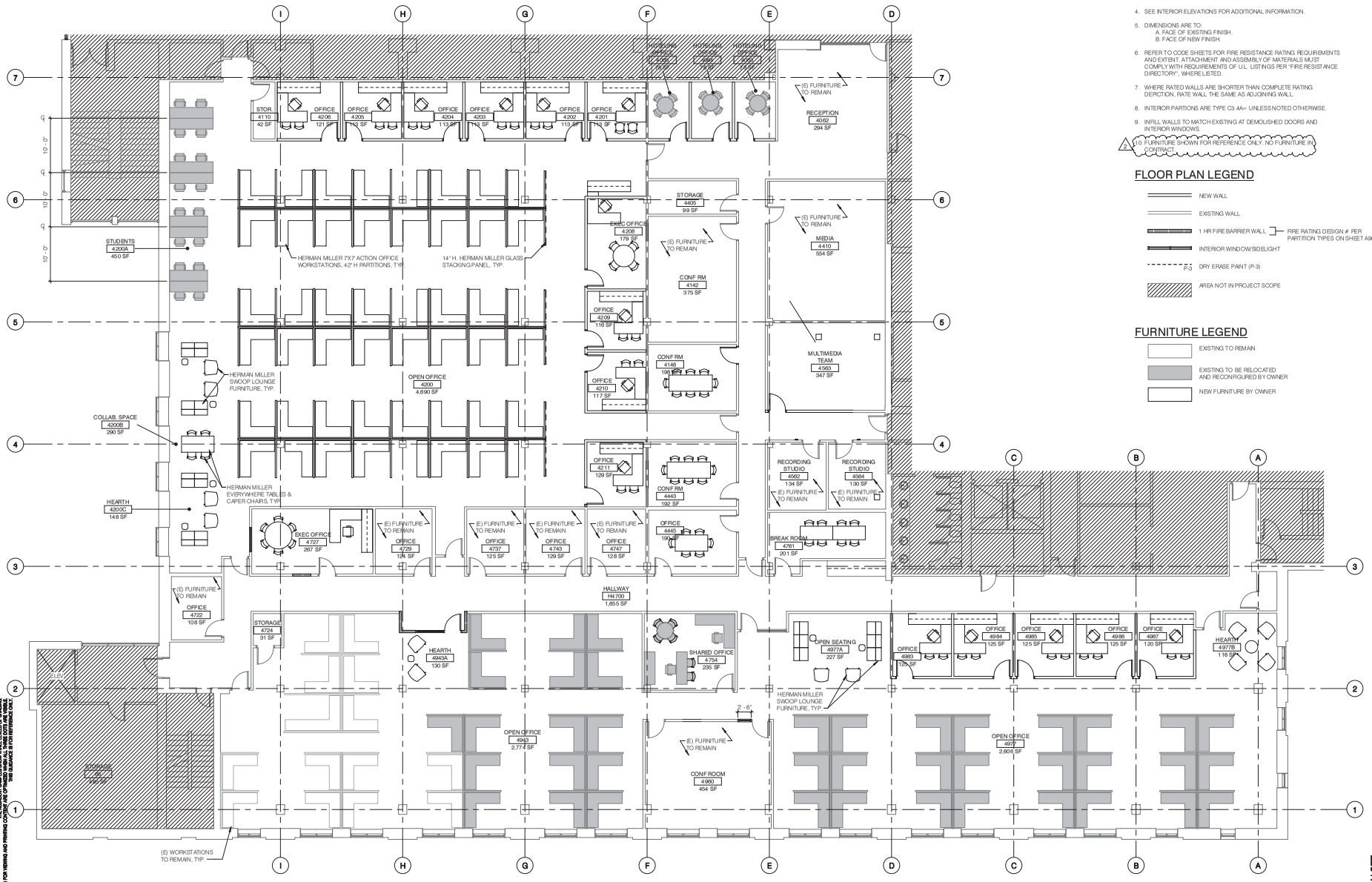
9. INFILL WALLS TO MATCH EXISTING AT DEMOLISHED DOORS AND INTERIOR WINDOWS.
10. FURNITURE SHOWN FOR REFERENCE ONLY. NO FURNITURE IN CONTRACT.

## FLOOR PLAN LEGEND

- NEW WALL
- EXISTING WALL
- 1 HR FIRE BARRIER WALL — FIRE RATING DESIGN # PER PARTITION TYPES ON SHEET A900
- INTERIOR WINDOW/SIDELIGHT
- P-3 DRY ERASE PAINT (P-3)
- AREA NOT IN PROJECT SCOPE

## FURNITURE LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE RELOCATED AND RECONFIGURED BY OWNER
- NEW FURNITURE BY OWNER




1 / A931 FURNITURE PLAN - FOURTH FLOOR
1/8" = 1'-0"

PROJECT NORTH

0 2 4 8 16

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Revisions:

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|---|---|---|
| 2 | 11.26.18 | Addendum 2 |

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Sheet:

FURNITURE PLAN - FOURTH FLOOR

CONSTRUCTION SET

A931

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# ELECTRICAL LEGEND

## LOW-VOLTAGE ELECTRICAL CONDUCTORS & CABLES

- NEW CONCEALED RACEWAY AND WIRE. NUMBER OF SLASHES INDICATES NUMBER OF CONDUCTORS IF MORE THAN TWO. SIZE OTHER THAN #12 AS NOTED. (APPLIES TO ALL WIRING SYMBOLS)
- UNDERGROUND OR UNDERFLOOR RACEWAY
- HOMERUN

## GROUNDING & BONDING FOR ELECTRICAL SYSTEMS

- GROUND

## RACEWAYS & BOXES FOR ELECTRICAL SYSTEMS

- CONDUIT UP
- CONDUIT DOWN
- FLEXIBLE CONNECTION
- JUNCTION BOX
- STUB

## CABLE TRAY FOR ELECTRICAL SYSTEMS

- CT — CABLE TRAY

## LIGHTING CONTROL EQUIPMENT

- OS/A — CEILING MOUNTED OCCUPANCY SENSOR SUBSCRIPT INDICATES TYPE
- R — RELAY
- LIGHTING CONTROL PANEL

## LOW-VOLTAGE DISTRIBUTION

- ELECTRICAL EQUIPMENT AS INDICATED DRAWINGS

## PANELBOARDS

- LV-1 / 208 / 225 / 3PH 4W — PANELBOARD - VOLTAGE AND SIZE AS NOTED
- SURFACE BRANCH PANELBOARD (120/208V)
- SURFACE BRANCH PANELBOARD (277/480V)
- RECESSED BRANCH PANELBOARD (120/208V)
- RECESSED BRANCH PANELBOARD (277/480V)

## ELECTRICAL CABINETS & ENCLOSURES

- CABINET, SURFACE MOUNTED. TYPE AS NOTED.
- ELECTRICAL EQUIPMENT AS INDICATED ON DRAWINGS

## WIRING DEVICES

- $\$_3$ — WALL SWITCH. 's'= CIRCUITS CONTROLLED, 'K'= KEY SWITCH, 'P'= W/PILOT LIGHT, '2'= DOUBLE POLE, '3'= THREE-WAY, 'M'= AUTOMATIC WALL SWITCH, 'D'= DIMMING SWITCH, 'TS'= DIGITAL TIMER SWITCH
- L6-30 — SPECIAL RECEPTACLE, NEMA CONFIGURATION INDICATED
- GFI WP — DUPLEX RECEPTACLE. WP= WEATHERPROOF, "GFI"= GROUND FAULT CIRCUIT INTERRUPTER TYPE
- 44" a — DUPLEX RECEPTACLE MOUNTED ABOVE STANDARD HEIGHT. HEIGHT INDICATED IN INCHES. WHERE NO HEIGHT INDICATED, MOUNT ABOVE COUNTERTOP.
- DEDICATED DUPLEX RECEPTACLE WITH ISOLATED GROUND
- DUPLEX RECEPTACLE, EMERGENCY POWER
- QUAD RECEPTACLE
- QUAD RECEPTACLE, EMERGENCY POWER
- SINGLE RECEPTACLE
- EQUIPMENT CONNECTION
- SURFACE RECEPTACLE RACEWAY
- POWER POLE

## MOTOR & CIRCUIT DISCONNECTS

- COMBINATION DISCONNECT AND MAGNETIC STARTER
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MAGNETIC STARTER
- MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION & LOCKABLE OFF COVER
- M — MOTOR CONNECTION

## LIGHTING FIXTURES

- A1 — FIXTURE IDENTIFIER. FIXTURE TYPE "A1" SEE LIGHTING FIXTURE SCHEDULE.
- SURFACE-MOUNT FIXTURE - DRAWN TO SCALE WHERE POSSIBLE
- RECESSED FIXTURE - DRAWN TO SCALE WHERE POSSIBLE
- RECESSED FIXTURE - SHADING INDICATES EMERGENCY BATTERY BALLAST, UNINTERRUPTED POWER SUPPLY OR EMERGENCY POWER BY GENERATOR (APPLIES TO ALL LUMINARIES).
- LINEAR WALL-MOUNTED LUMINAIRE
- SURFACE WALL MOUNT LUMINAIRE
- EXIT SIGN, WALL MOUNT - SHADED AREAS INDICATE FACES
- EXIT SIGN, CEILING MOUNT - SHADED AREAS INDICATE FACES
- EXIT SIGN WITH EMERGENCY LIGHTS, CEILING MOUNTED

## DATA COMMUNICATIONS

- COMBINATION PHONE/DATA PORT SHOWING QUANTITY OF EACH TYPE. V= VOICE (PHONE)/D=DATA
- WAP — WIRELESS ACCESS POINT

## FIRE DETECTION & ALARM

- FIRE ALARM SYSTEM MANUAL PULL STATION
- V — FIRE ALARM SYSTEM HORN: V= VOICE, WP= WEATHERPROOF
- FIRE ALARM SYSTEM HORN/STROBE. MOUNT AT 84" A.F.F.
- FIRE ALARM STROBE
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- DH — FIRE ALARM MAGNETIC DOOR HOLDER
- FIRE ALARM FLOW SWITCH
- FIRE ALARM TAMPER SWITCH
- D — FIRE ALARM SYSTEM SMOKE DETECTOR: D = DUCT DETECTOR, R = RELAY BASE
- COMBINATION FIXED TEMPERATURE AND RATE OF RISE DETECTOR.
- FSD — FIRE/SMOKE DAMPER
- S — SMOKE DAMPER
- FSCP — FIRE SUPPRESSION CONTROL PANEL
- FACP — FIRE ALARM CONTROL PANEL
- M — MANUAL DISCHARGE STATION

## GENERAL

- EF-1 — EQUIPMENT IDENTIFIER (EXHAUST FAN 1 SHOWN)
- 1 — SHEET REFERENCE NOTE
- 2/E-121 — 2/E-501 — PLAN OR DETAIL NUMBER / SHEET NUMBER
- EXISTING WORK SHOWN LIGHT
- NEW WORK SHOWN BOLD
- EXISTING TO BE REMOVED

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| AFF | ABOVE FINISHED FLOOR | IDF | INTERMEDIATE DISTRIBUTION FRAME |
| BLDG | BUILDING | L.V. | LOW VOLTAGE |
| C | CONDUIT | MDF | MAIN DISTRIBUTION FRAME |
| cd | CANDELA | MECH | MECHANICAL |
| CKT | CIRCUIT | MW | MICROWAVE |
| DIM | 0-10V DIMMING | (N) | NEW |
| DSP | DIGITAL SIGNAL PROCESSOR | (NL) | NEW LOCATION |
| (E) | EXISTING | PNL | PANEL |
| ELEC | ELECTRICAL | (RL) | RELOCATE |
| EMERG | EMERGENCY | SWBD | SWITCHBOARD |
| FAM | FIRE ALARM MASTER | TTB | TELEPHONE TERMINAL BOARD |
| GD | GARBAGE DISPOSAL | TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSION |
| GFI | GROUND FAULT INTERRUPTER | TYP | TYPICAL |
| GND | GROUND | WG | WIREGUARD |
| HVAC | HEATING, VENTILATING & AIR CONDITIONING | WP | WEATHERPROOF |

## GENERAL NOTES

1. THE FACILITY WILL REMAIN IN OPERATION DURING CONSTRUCTION.
2. COORDINATE ALL SHUTDOWNS AND CONSTRUCTION ACTIVITY WITH FACILITIES STAFF.
3. SIZE AND LOCATION OF ALL EXISTING ELECTRICAL EQUIPMENT IS APPROXIMATE. CONTRACTOR SHALL SITE VERIFY THE EXACT LOCATION OF EXISTING AND CONSTRUCT ALL WORK FROM FIELD DIMENSIONS.
4. CONTRACTOR SHALL MAKE ADJUSTMENTS NECESSARY TO ACCOMMODATE MINOR DEVIATIONS AT NO COST TO OWNER.
5. LIGHT LINE WORK INDICATES EXISTING ELECTRICAL CIRCUITRY AND OTHER ELECTRICAL EQUIPMENT. DASHED LINE WORK INDICATES ELECTRICAL DEVICES AND EQUIPMENT TO BE REMOVED.
6. WHERE EXISTING EQUIPMENT IS REMOVED AND NOT REPLACED IN THE SAME LOCATION, PATCH AND PAINT SURFACES TO MATCH ORIGINAL CONDITION.
7. REMOVE ALL ABANDONED RACEWAY AND WIRING.
8. RECONNECT ALL CIRCUITRY TO REMAINING DEVICES AND EQUIPMENT.
9. MAINTAIN ACCESSIBILITY OF EQUIPMENT AND JUNCTION BOXES AS NECESSARY AND TO OWNERS SATISFACTION.
10. RUN ALL BUILDING RACEWAY CONCEALED, UNLESS OTHERWISE NOTED.
11. CARRY GROUND WIRE IN ALL LIGHTING, POWER, AND FEEDER CIRCUITS.
12. COORDINATE ALL DEVICE LOCATIONS WITH OTHER TRADES TO AVOID POSSIBLE CONFLICTS WITH DUCTS, SPRINKLER PIPING AND OTHER OBSTACLES AFFECTING INSTALLATION.
13. PROVIDE BLANK FACE PLATES FOR ALL SWITCHES BEING REMOVED.
14. THE WORD 'PROVIDE' WHEN USED ON THESE ELECTRICAL PLANS IS INTENDED TO MEAN THAT THE ELECTRICAL CONTRACTOR IS TO FURNISH AND INSTALL THE RELATED WORK DESCRIBED UNLESS OTHERWISE NOTED.
15. THE TERM 'WIRING' AS USED ON THE DRAWINGS INCLUDES BOTH THE RACEWAY AND CONDUCTORS WITHIN.
16. ALL DEMOLISHED EQUIPMENT SHALL BE SALVAGED TO OWNER.

## LUMINAIRE SCHEDULE

| TYPE | DESCRIPTION | EXAMPLE MANUFACTURER | LAMP | NOTES |
|---|---|---|---|---|
| R | NOMINAL 13.5"X 8" X 2" LED WALL MOUNTED 'IN USE RECORDING' SIGN | ODLE S290 SERIES S292-D-277-ROF-STF-L OR APPROVED | LED<br><br>4 WATT | MOUNTING :WALL MOUNTED SURFACE<br>HOUSING :EXTRUDED ALUMINUM WITH POWDER COATED BLACK FINISH<br>LENS/REFL :SILK SCREENED WHITE BUTYRATE SNAP-IN PANEL<br>VOLTAGE :277V<br>BALLAST :ELECTRONIC DRIVER<br>MISC :SIGN SHALL READ "IN USE RECORDING" COORDINATE LOCATION WITH ARCHITECT |

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**ELECTRICAL LEGEND & GENERAL NOTES**

**E001**

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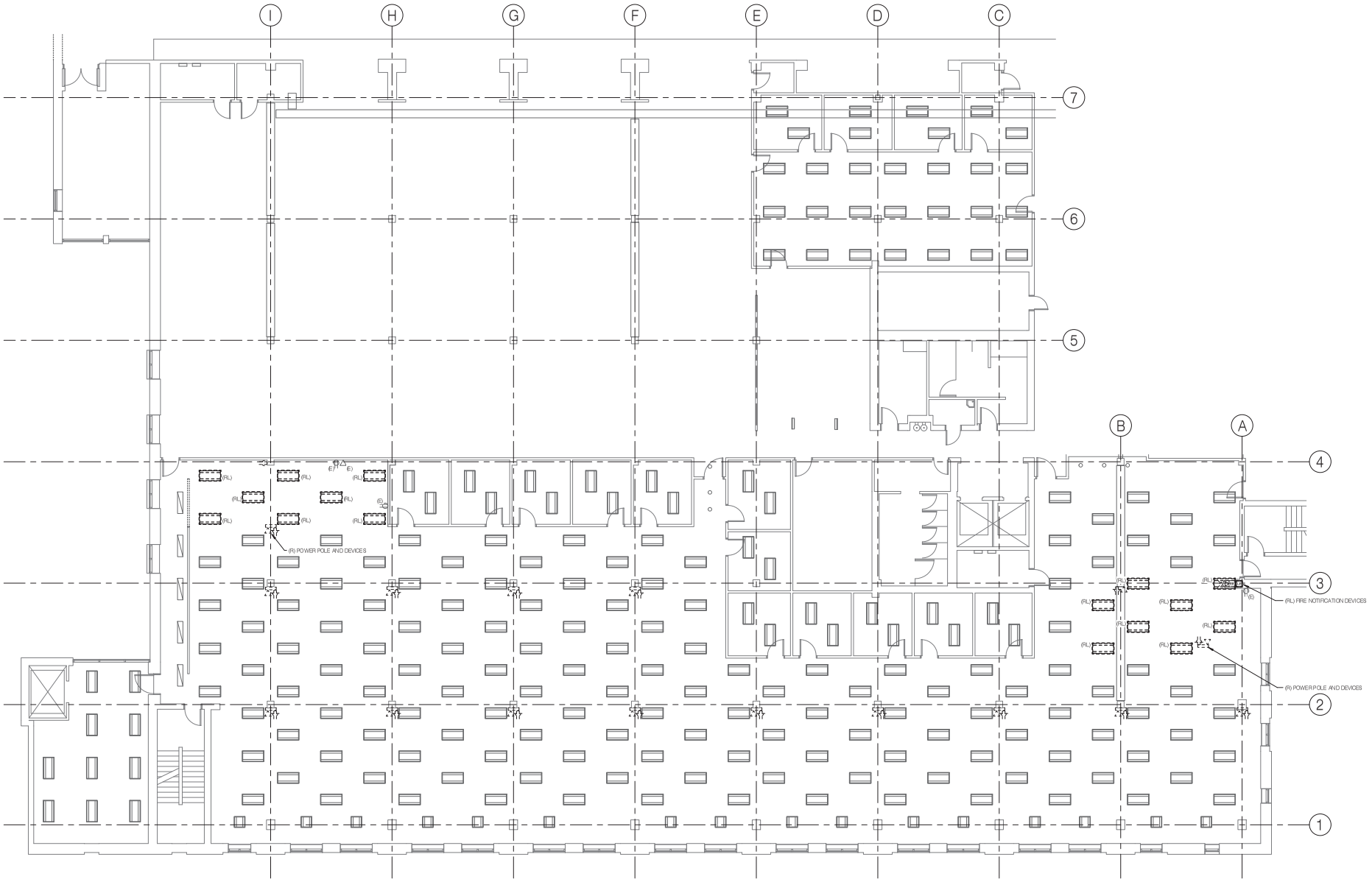


NORTH

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

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ELECTRICAL DEMOLITION - THIRD FLOOR

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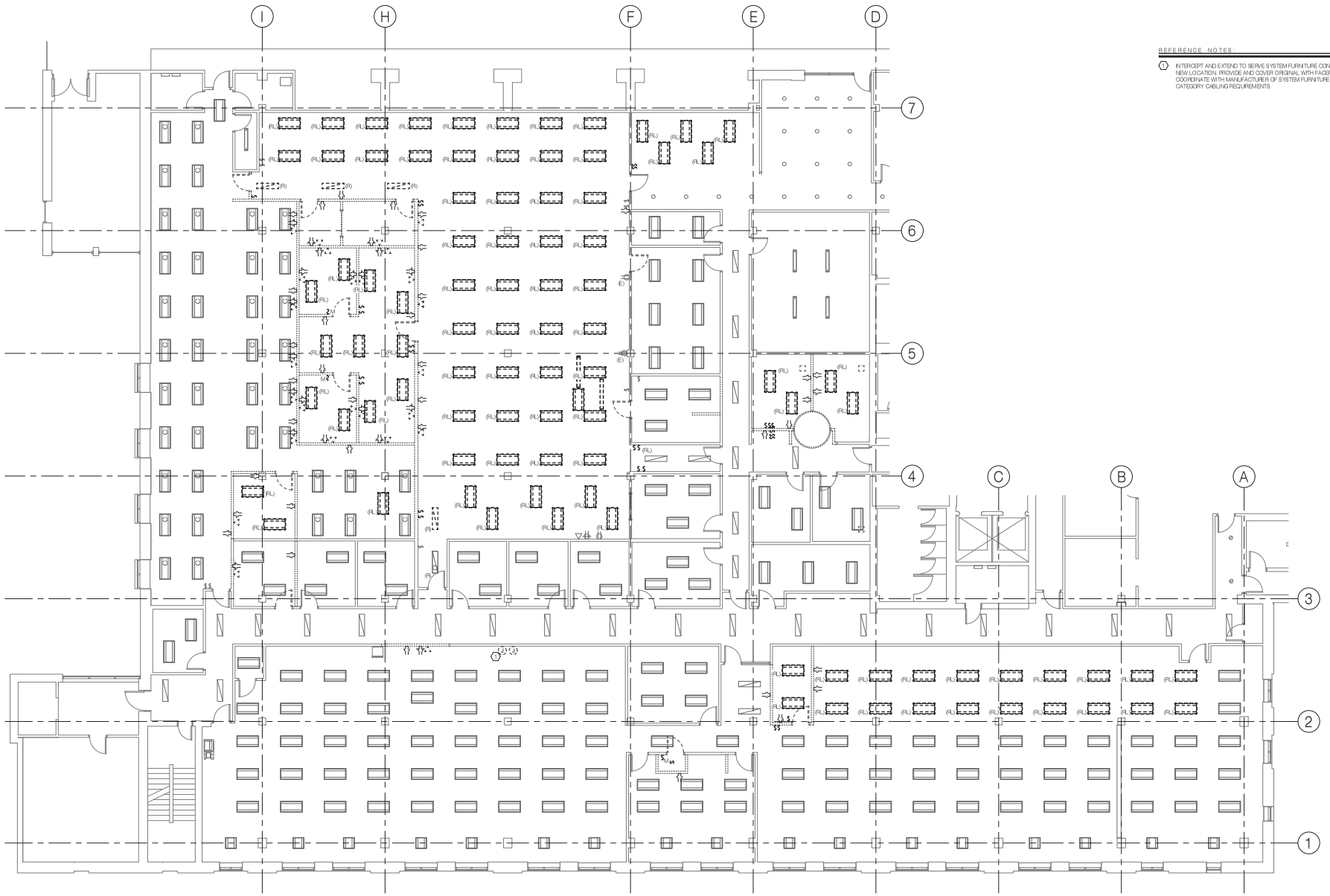


REFERENCE NOTES:

1. INTERCEPT AND EXTEND TO SERVE SYSTEM FURNITURE CONNECTION IN NEW LOCATION. PROVIDE AND COVER ORIGINAL WITH FACEPLATE. COORDINATE WITH MANUFACTURER OF SYSTEM FURNITURE FOR CATEGORY CABLING REQUIREMENTS.

NORTH

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

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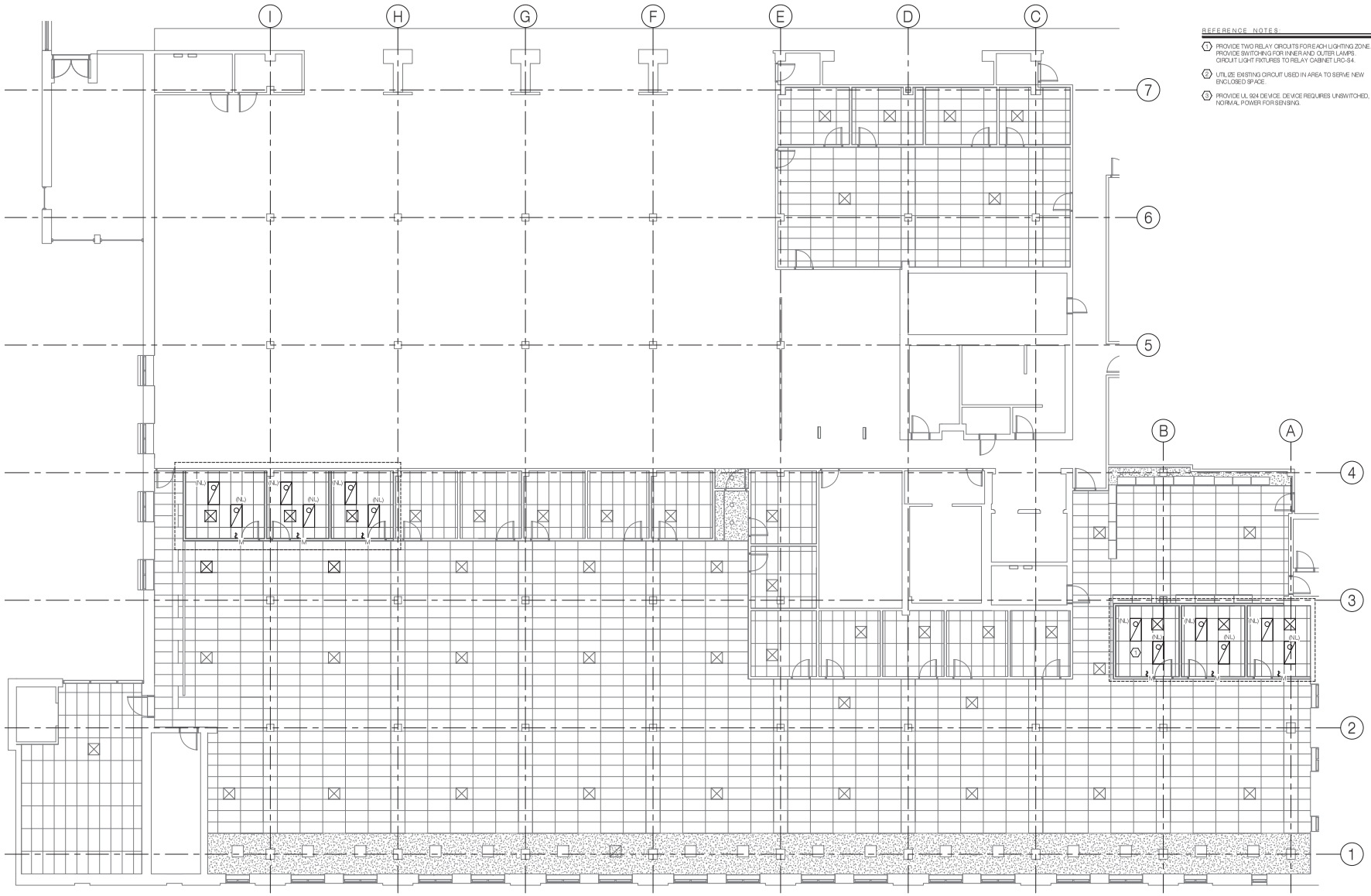


REFERENCE NOTES:

1. PROVIDE TWO RELAY CIRCUITS FOR EACH LIGHTING ZONE. PROVIDE SWITCHING FOR INNER AND OUTER LAMPS. CIRCUIT LIGHT FIXTURES TO RELAY CABINET LRC-S4.
2. UTILIZE EXISTING CIRCUIT USED IN AREA TO SERVE NEW ENCLOSED SPACE.
3. PROVIDE UL 924 DEVICE. DEVICE REQUIRES UNSWITCHED, NORMAL POWER FOR SENSING.

NORTH

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

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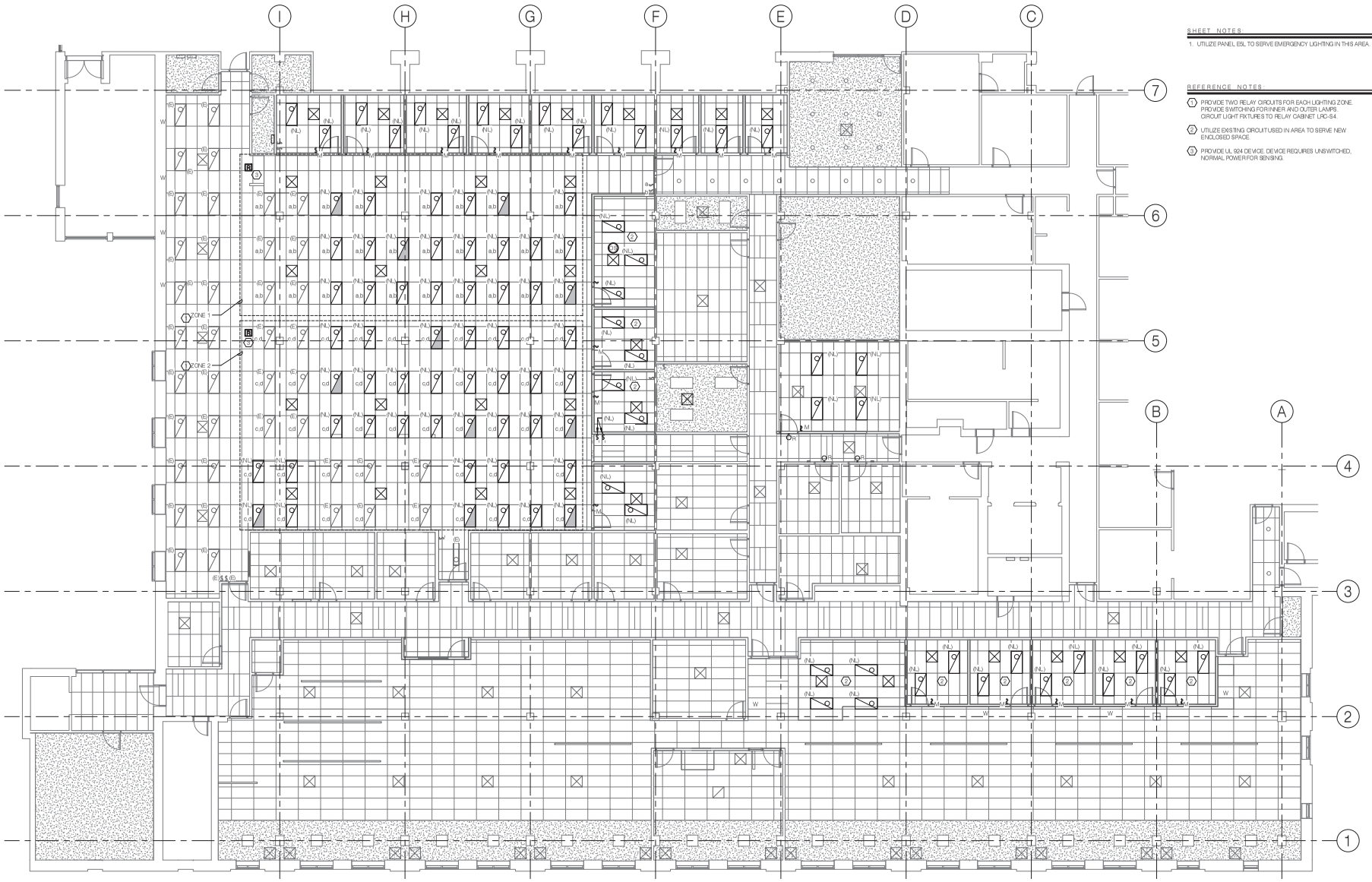


SHEET NOTES

1. UTILIZE PANEL ESL TO SERVE EMERGENCY LIGHTING IN THIS AREA.

REFERENCE NOTES

1. PROVIDE TWO RELAY CIRCUITS FOR EACH LIGHTING ZONE. PROVIDE SWITCHING FOR INNER AND OUTER LAMPS. CIRCUIT LIGHT FIXTURES TO RELAY CABINET LRC-S4.
2. UTILIZE EXISTING CIRCUIT USED IN AREA TO SERVE NEW ENCLOSED SPACE.
3. PROVIDE UL 924 DEVICE. DEVICE REQUIRES UNSWITCHED, NORMAL POWER FOR SENSING.

NORTH

1 LIGHTING RCP - FOURTH FLOOR
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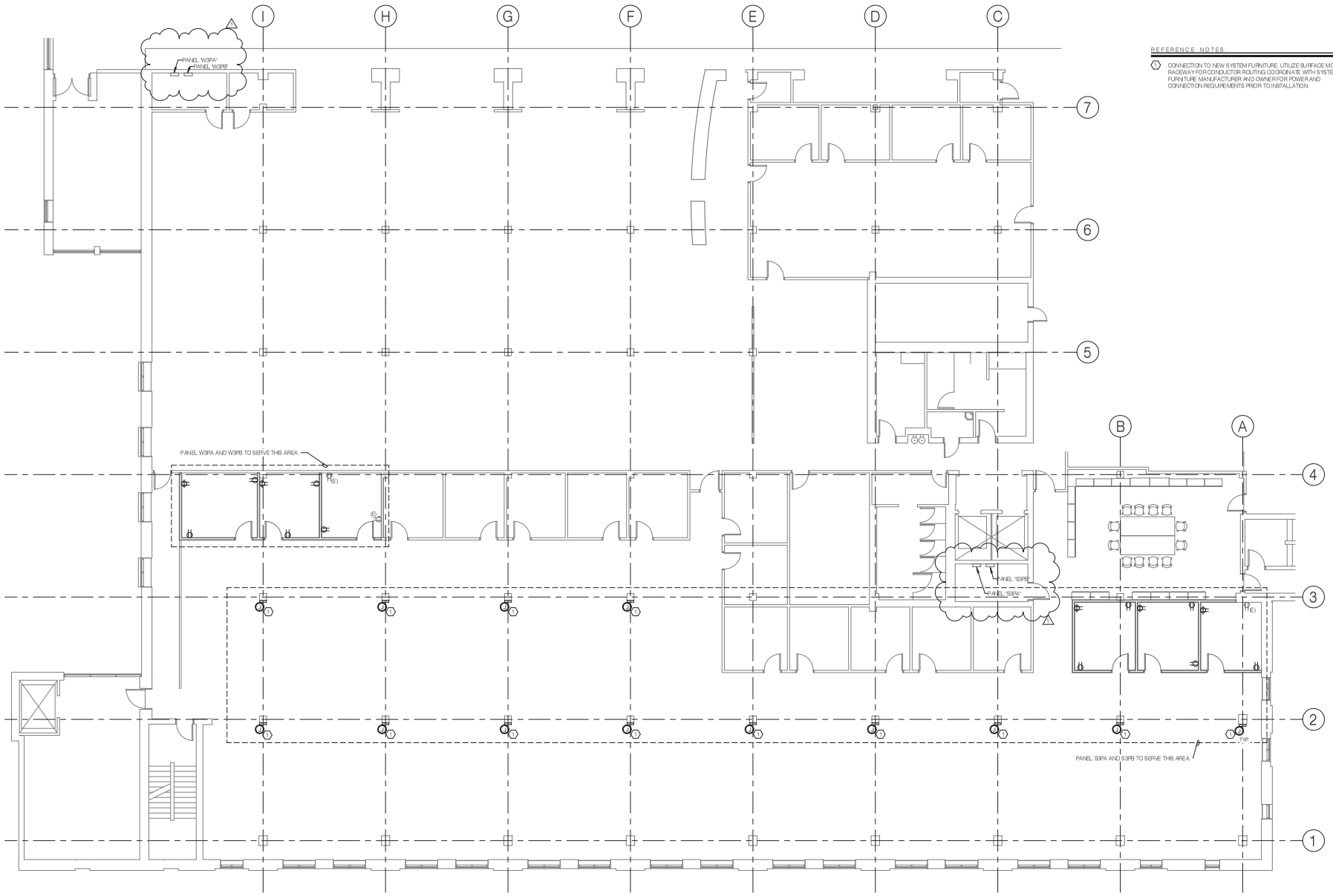


1 POWER DISTRIBUTION FLOOR PLAN - THIRD FLOOR
1/8" = 1'-0"

REFERENCE NOTES

1. CONNECTION TO NEW SYSTEM FURNITURE. UTILIZE SURFACE MOUNT RACEWAY FOR CONDUCTOR ROUTING COORDINATE WITH SYSTEM FURNITURE MANUFACTURER AND OWNER FOR POWER AND CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.

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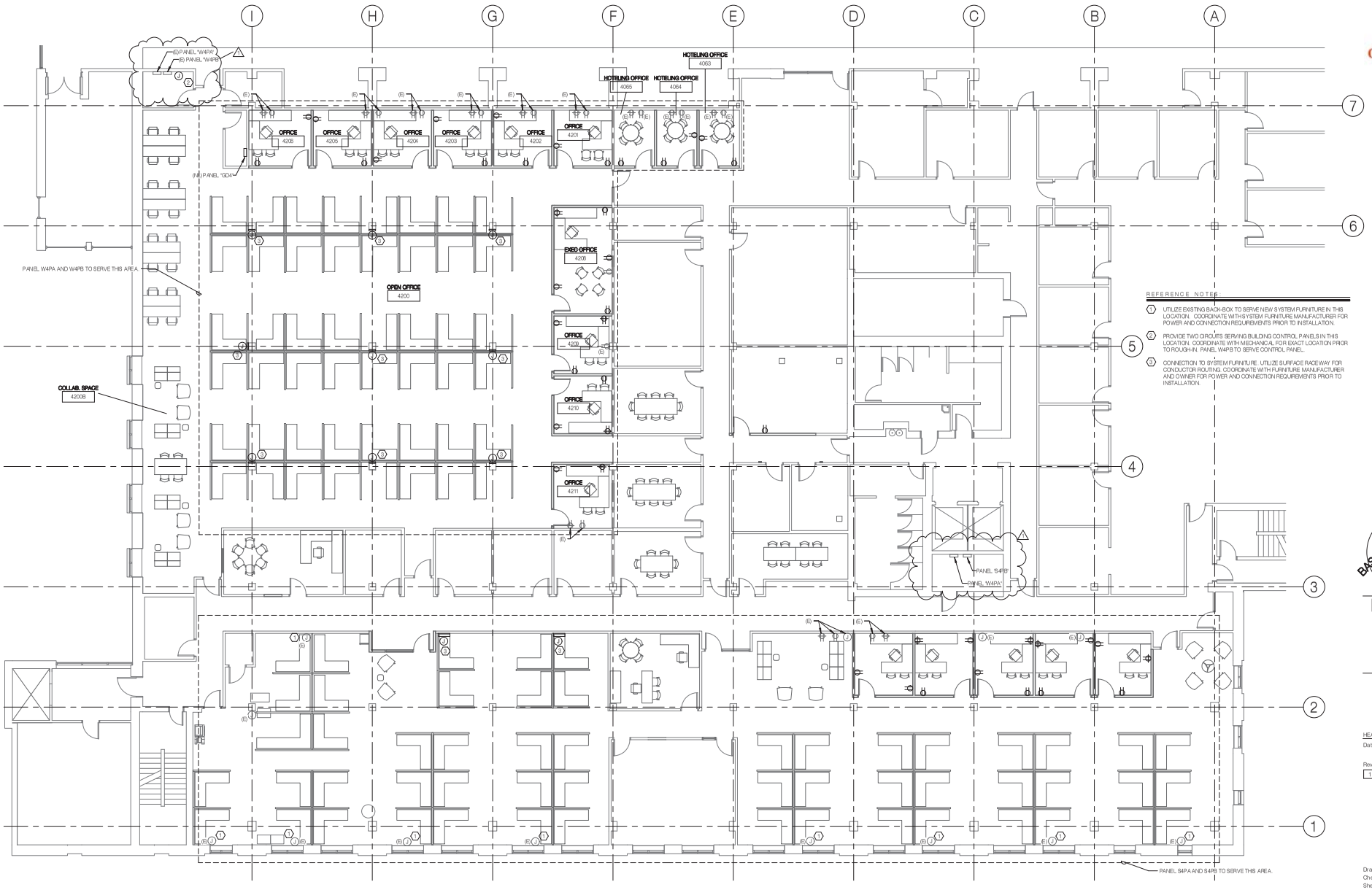


REFERENCE NOTES

1. UTILIZE EXISTING BACK-BOX TO SERVE NEW SYSTEM FURNITURE IN THIS LOCATION. COORDINATE WITH SYSTEM FURNITURE MANUFACTURER FOR POWER AND CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.
2. PROVIDE TWO CIRCUITS SERVING BUILDING CONTROL PANELS IN THIS LOCATION. COORDINATE WITH MECHANICAL FOR EXACT LOCATION PRIOR TO ROUGH-IN. PANEL W4PB TO SERVE CONTROL PANEL.
3. CONNECTION TO SYSTEM FURNITURE. UTILIZE SURFACE RACEWAY FOR CONDUCTOR ROUTING. COORDINATE WITH FURNITURE MANUFACTURER AND OWNER FOR POWER AND CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.

NORTH

1 POWER DISTRIBUTION FLOOR PLAN - FOURTH FLOOR
1/8" = 1'-0"


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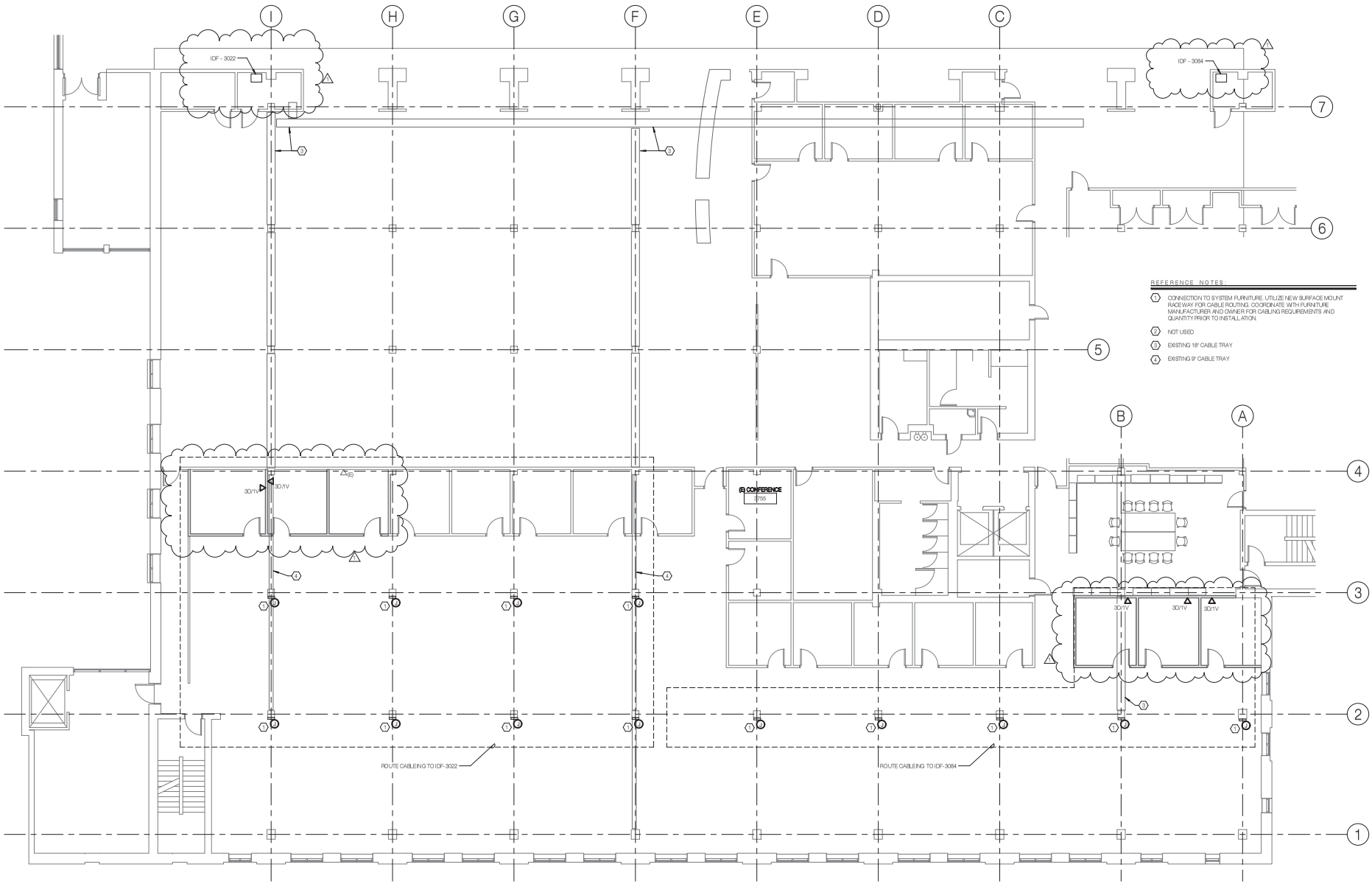


REFERENCE NOTES:

1. CONNECTION TO SYSTEM FURNITURE. UTILIZE NEW SURFACE MOUNT RACEWAY FOR CABLE ROUTING. COORDINATE WITH FURNITURE MANUFACTURER AND OWNER FOR CABLING REQUIREMENTS AND QUANTITY PRIOR TO INSTALLATION.
2. NOT USED
3. EXISTING 18" CABLE TRAY
4. EXISTING 9" CABLE TRAY

NORTH

1 LOW VOLTAGE FLOOR PLAN - THIRD FLOOR
1/8" = 1'-0"

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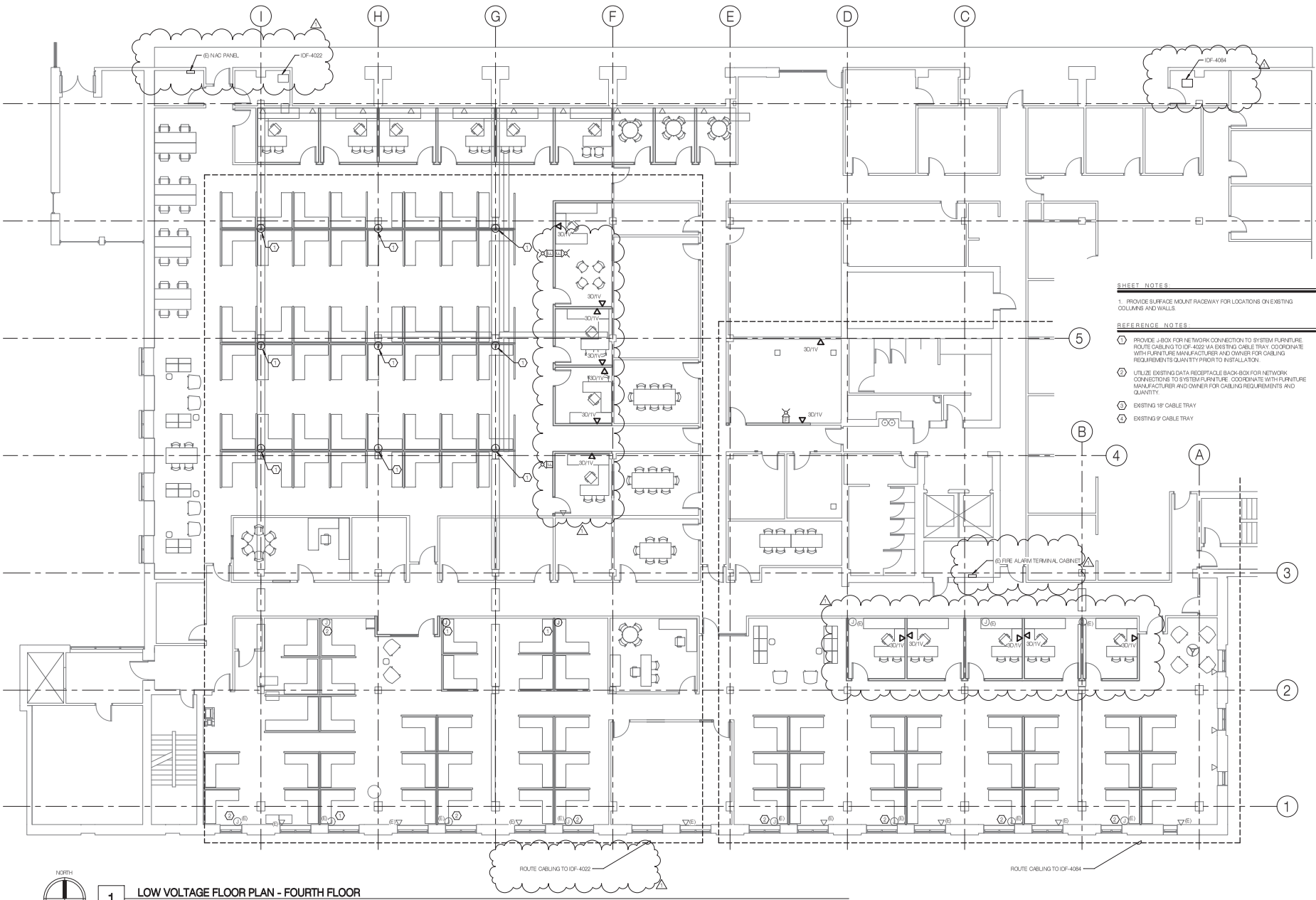


SHEET NOTES:

1. PROVIDE SURFACE MOUNT RACEWAY FOR LOCATIONS ON EXISTING COLUMNS AND WALLS.

REFERENCE NOTES:

1. PROVIDE J-BOX FOR NETWORK CONNECTION TO SYSTEM FURNITURE. ROUTE CABLING TO IDF-4022 VIA EXISTING CABLE TRAY. COORDINATE WITH FURNITURE MANUFACTURER AND OWNER FOR CABLING REQUIREMENTS QUANTITY PRIOR TO INSTALLATION.
2. UTILIZE EXISTING DATA RECEPTACLE BACK-BOX FOR NETWORK CONNECTIONS TO SYSTEM FURNITURE. COORDINATE WITH FURNITURE MANUFACTURER AND OWNER FOR CABLING REQUIREMENTS AND QUANTITY.
3. EXISTING 18" CABLE TRAY
4. EXISTING 9" CABLE TRAY

1 LOW VOLTAGE FLOOR PLAN - FOURTH FLOOR
1/8" = 1'-0"

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# MECHANICAL LEGEND

## PIPING

| SYMBOL | ABBREV. | DESCRIPTION |
|---|---|---|
| | | PIPING UP |
| | | PIPING DOWN |
| S = .01 | | SLOPE OF PIPE IN DECIMALS OF FEET |
| | | CAPPED PIPE |
| | | PIPE REDUCING FITTING: CONCENTRIC, ECCENTRIC |
| | | DIRECTION OF FLOW |
| | | UNION |
| | DV | DRAIN VALVE |
| | BV | BALL VALVE |
| | AV | AUTOMATIC CONTROL VALVE: 2-WAY |

## DUCTWORK

| DOUBLE-LINE SYMBOL | SINGLE-LINE SYMBOL | DESCRIPTION |
|---|---|---|
| | SA | RECTANGULAR SUPPLY AIR DUCT UP |
| | RA | RECTANGULAR RETURN AIR DUCT UP |
| | EA | RECTANGULAR EXHAUST AIR UP |
| | | RECTANGULAR SUPPLY AIR DUCT UP |
| | | RECTANGULAR RETURN AIR DN |
| | | RECTANGULAR EXHAUST AIR or OUTSIDE AIR DN |
| | | ROUND DUCTWORK UP |
| | | ROUND DUCTWORK DOWN |
| | | TURN VANE ELBOW |
| | | STANDARD RADIUS ELBOW |
| | | FLEXIBLE DUCT CONNECTION |
| 12x6 | 12x6 | DUCT SIZE: WIDTH x DEPTH |
| SD-1 6x6-3W 100 | | DIFFUSER TYPE<br>SIZE - BLOW PATTERN (IF NOT 4-WAY)<br>AIR VOLUME IN CUBIC FEET per MINUTE (CFM) |
| RG-1<br>10x6<br>200 | | GRILLE TYPE<br>SIZE<br>AIR VOLUME IN CUBIC FEET per MINUTE (CFM) |
| EG-1<br>10x6<br>200 | | GRILLE TYPE<br>SIZE<br>AIR VOLUME IN CUBIC FEET per MINUTE (CFM) |
| SD-1<br>10x6<br>200 | | DIFFUSER OR GRILLE TYPE<br>SIZE<br>AIR VOLUME IN CUBIC FEET per MINUTE (CFM) |
| SD - 2<br>48-2-1 0"@<br>2.00 | | SLOT DIFFUSER TYPE<br>LENGTH - # OF SLOTS - INLET SIZE<br>AIR VOLUME IN CUBIC FEET per MINUTE (CFM) |
| | | INTERNALLY LINED OR DOUBLE WALL DUCTWORK |
| | | MANUAL VOLUME DAMPER |
| | FD | COMBINATION FIRE/SMOKE DAMPER |
| | | CONCENTRIC TRANSITION |
| | | ECCENTRIC TRANSITION |
| RECT. ROUND | | RECTANGULAR TO ROUND TRANSITION |
| | | 45 DEGREE LATERAL BRANCH, ROUND |
| | | 45 DEGREE ENTRY BRANCH, ROUND OR RECTANGULAR |
| | | CONICAL BRANCH, ROUND |

## GENERAL

| SYMBOL | ABBREVIATION | DESCRIPTION |
|---|---|---|
| (E) | | EXISTING |
| OR dia | | DIAMETER |
| | | NEW TO EXISTING POINT OF CONNECTION |
| 2 | | NOTE REFERENCE MARKER |
| 2 M-12 / 2 M-501 | PLAN OR DETAIL NUMBER / SHEET NUMBER | PLAN OR DETAIL REFERENCE MARKER |
| A M-401 | SECTION LETTER / SHEET NUMBER | SECTION REFERENCE MARKER |
| EF 2 | EQUIPMENT TYPE / EQUIPMENT NUMBER | EQUIPMENT MARKER |
| 208 | | ROOM NUMBER |
| | | EXISTING SHOWN LIGHT |
| | | NEW WORK SHOWN BOLD |
| | | EXISTING TO BE REMOVED |
| | | AREA NOT IN PROJECT SCOPE |

## CONTROLS

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---|---|---|---|
| | PROCESS PIPING SIGNAL | AI ALARM | BAS INPUT/OUTPUT POINT<br>AI = ANALOG INPUT<br>AO = ANALOG OUTPUT<br>C = COMMUNICATION<br>DI = DIGITAL INPUT<br>DO = DIGITAL OUTPUT<br>FUNCTION DESIGNATION<br>S/S = START/STOP |
| | ELECTRICAL SIGNAL | | |
| AHU-1 | SPACE SENSOR / UNIT | | |
| CO2/AHU-1 | SPACE CARBON DIOXIDE SENSOR | | |
| T | TEMPERATURE MEASUREMENT | | |
| G CO | GAS CONNECTION<br>CO2<br>CO | | |
| A | ACTUATOR - ELECTRIC | | |

## ABBREVIATIONS

| | |
|---|---|
| ACH | AIR CHANGES PER HOUR |
| AFF | ABOVE FINISHED FLOOR |
| AFS | AUTOMATIC FIRE SPRINKLER |
| AL | ALUMINUM |
| ALT | ALTERNATE |
| APD | AIR PRESSURE DROP |
| BAS | BUILDING AUTOMATION SYSTEM |
| BHP | BRAKE HORSEPOWER |
| BOD | BOTTOM OF DUCT |
| BTUH | BRITISH THERMAL UNITS PER HOUR |
| CFH | CUBIC FEET per HOUR |
| CFM | CUBIC FEET per MINUTE |
| CMU | CONCRETE MASONRY UNIT |
| CONC | CONCRETE |
| CONT | CONTINUATION |
| DB | DRY BULB |
| dba | DECIBELS ACOUSTIC |
| DN | DOWN |
| DP | DIFFERENTIAL PRESSURE |
| EAT | ENTERING AIR TEMPERATURE |
| EER | ENERGY EFFICIENCY RATIO |
| EFF | EFFICIENCY |
| ESP | EXTERNAL STATIC PRESSURE |
| EWT | ENTERING WATER TEMPERATURE |
| FLA | FULL LOAD AMPS |
| FPM | FEET PER MINUTE |
| FT | FEET |
| FT WC | FEET WATER COLUMN |
| FUT | FUTURE |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| GYP BD | GYPSUM WALL BOARD |
| HP | HORSEPOWER |
| HSPF | HEATING SEASONAL PERFORMANCE FACTOR |
| HVAC | HEATING, VENTILATING, & AIR CONDITIONING |
| HZ | HERTZ (CYCLES PER SECOND) |
| IAQ | INDOOR AIR QUALITY |
| IE | INVERT ELEVATION |
| IN | INCHES |
| IN WC | INCHES WATER COLUMN |
| IPLV | INTEGRATED PART LOAD VALUE |
| IW | INDIRECT WASTE |
| LAT | LEAVING AIR TEMPERATURE |
| LBS | POUNDS |
| LWT | LEAVING WATER TEMPERATURE |
| Ma | MILLIAMPERE |
| MAX | MAXIMUM |
| MBH | THOUSAND BTUs per HOUR |
| MCA | MINIMUM CIRCUIT AMPS |
| MFGR | MANUFACTURER |
| MIN | MINIMUM |
| MOP | MAX. OVERCURRENT PROTECTION |
| NC | NOISE CRITERIA |
| NC | NORMALLY CLOSED |
| NIC | NOT IN CONTRACT |
| NO | NORMALLY OPEN |
| NPLV | NON-STANDARD PART LOAD VALUE |
| NPSH | NET POSITIVE SUCTION HEAD |
| OFCI | OWNER FURNISHED/ CONTRACTOR INSTALLED |
| PD | PRESSURE DROP |
| PH | PHASE |
| PPH | POUNDS per HOUR |
| PSI | POUNDS per SQUARE INCH GAUGE |
| REQ'D | REQUIRED |
| RF | RETURN FAN |
| RH | RELATIVE HUMIDITY |
| RPM | REVOLUTIONS per MINUTE |
| SEER | SEASONAL ENERGY EFFICIENCY RATIO |
| SF | SUPPLY FAN |
| SS | STAINLESS STEEL |
| STL | STEEL |
| TSP | TOTAL STATIC PRESSURE |
| TYP | TYPICAL |
| VFD | VARIABLE FREQUENCY DRIVE |
| WB | WET BULB |
| WC | WATER COLUMN |
| WG | WATER GAUGE |

## GENERAL NOTES

1. THE FACILITY WILL REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SHUTDOWNS AND CONSTRUCTION ACTIVITY WITH FACILITIES STAFF.
2. SIZE AND LOCATION OF ALL PIPING AND OTHER MECHANICAL EQUIPMENT IS APPROXIMATE. CONTRACTOR SHALL SITE VERIFY THE EXACT LOCATION OF EXISTING AND CONSTRUCT ALL WORK FROM FIELD DIMENSIONS. CONTRACTOR SHALL MAKE ADJUSTMENTS NECESSARY TO ACCOMMODATE MINOR DEVIATIONS AT NO COST TO OWNER.
3. FINE (LIGHT) LINE WORK INDICATES EXISTING PIPING AND OTHER MECHANICAL EQUIPMENT. BOLD (HEAVY) LINE WORK INDICATES NEW PIPING AND OTHER MECHANICAL EQUIPMENT.
4. DRAWINGS DEPICT GENERAL DESIGN INTENT IN AREAS OF WORK. CONTRACTOR TO COMPLETE DESIGN AND PREPARE CONSTRUCTION DOCUMENTS, SUITABLE FOR PERMIT TO CITY OF CORVALLIS.
5. DRAWINGS AND SPECIFICATIONS SHALL BE STAMPED AND SIGNED BY REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR DESIGN.

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**MECHANICAL LEGEND & GENERAL NOTES**

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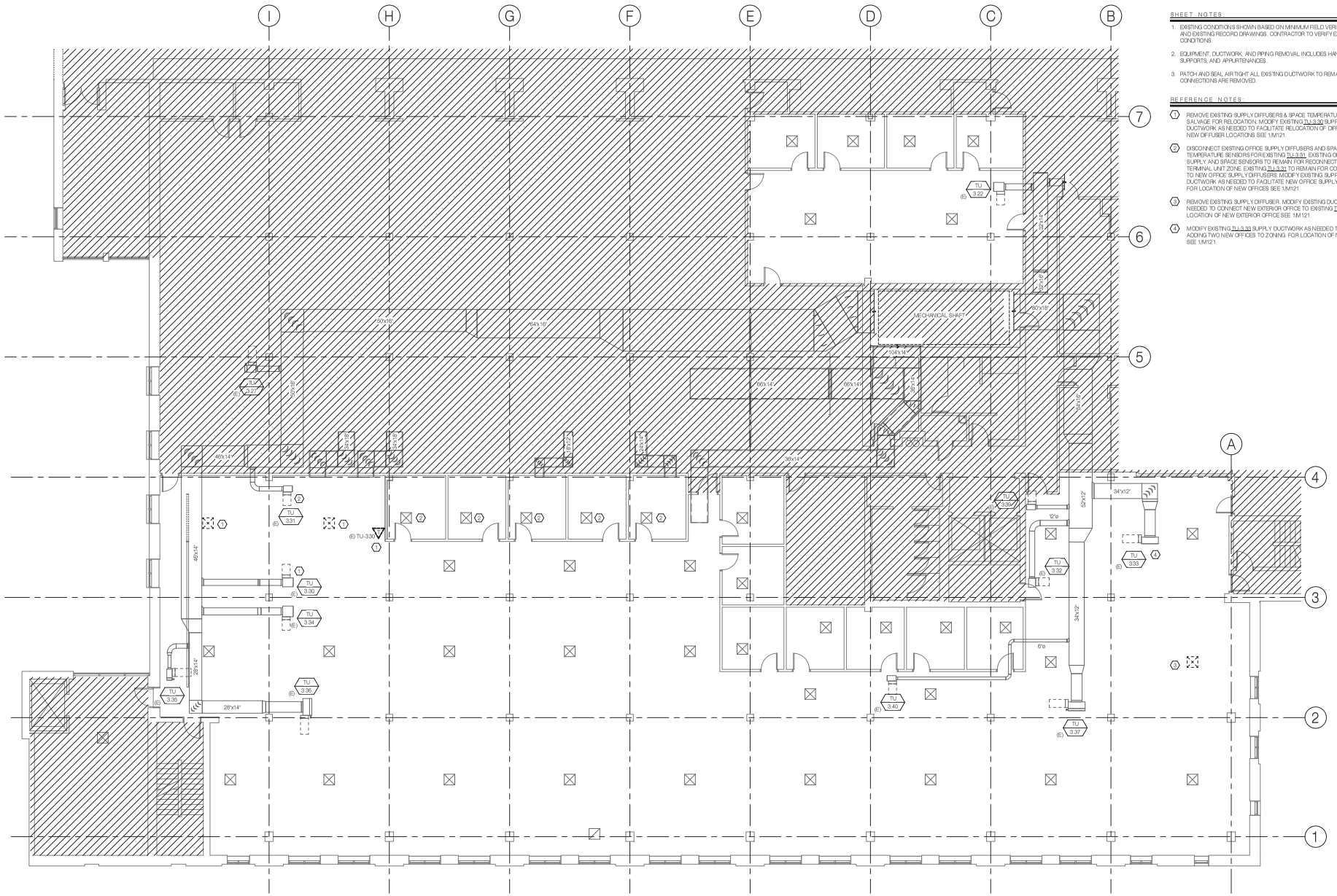


SHEET NOTES

1. EXISTING CONDITIONS SHOWN BASED ON MINIMUM FIELD VERIFICATION AND EXISTING RECORD DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
2. EQUIPMENT, DUCTWORK, AND PIPING REMOVAL INCLUDES HANGERS, SUPPORTS, AND APPURTENANCES.
3. PATCH AND SEAL AIR TIGHT ALL EXISTING DUCTWORK TO REMAIN, WHERE CONNECTIONS ARE REMOVED.

REFERENCE NOTES

1. REMOVE EXISTING SUPPLY DIFFUSERS & SPACE TEMPERATURE SENSOR, SALVAGE FOR RELOCATION. MODIFY EXISTING TU-3.30 SUPPLY DUCTWORK AS NEEDED TO FACILITATE RELOCATION OF DIFFUSERS. FOR NEW DIFFUSER LOCATIONS SEE 1/M121.
2. DISCONNECT EXISTING OFFICE SUPPLY DIFFUSERS AND SPACE TEMPERATURE SENSORS FOR EXISTING TU-3.31. EXISTING OFFICE SUPPLY AND SPACE SENSORS TO REMAIN FOR RECONNECTION TO NEW TERMINAL UNIT ZONE. EXISTING TU-3.31 TO REMAIN FOR CONNECTION TO NEW OFFICE SUPPLY DIFFUSERS. MODIFY EXISTING SUPPLY DUCTWORK AS NEEDED TO FACILITATE NEW OFFICE SUPPLY DIFFUSERS. FOR LOCATION OF NEW OFFICES SEE 1/M121.
3. REMOVE EXISTING SUPPLY DIFFUSER. MODIFY EXISTING DUCTWORK AS NEEDED TO CONNECT NEW EXTERIOR OFFICE TO EXISTING TU-3.37. FOR LOCATION OF NEW EXTERIOR OFFICE SEE 1/M121.
4. MODIFY EXISTING TU-3.33 SUPPLY DUCTWORK AS NEEDED TO FACILITATE ADDING TWO NEW OFFICES TO ZONING. FOR LOCATION OF NEW OFFICES SEE 1/M121.

NORTH

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

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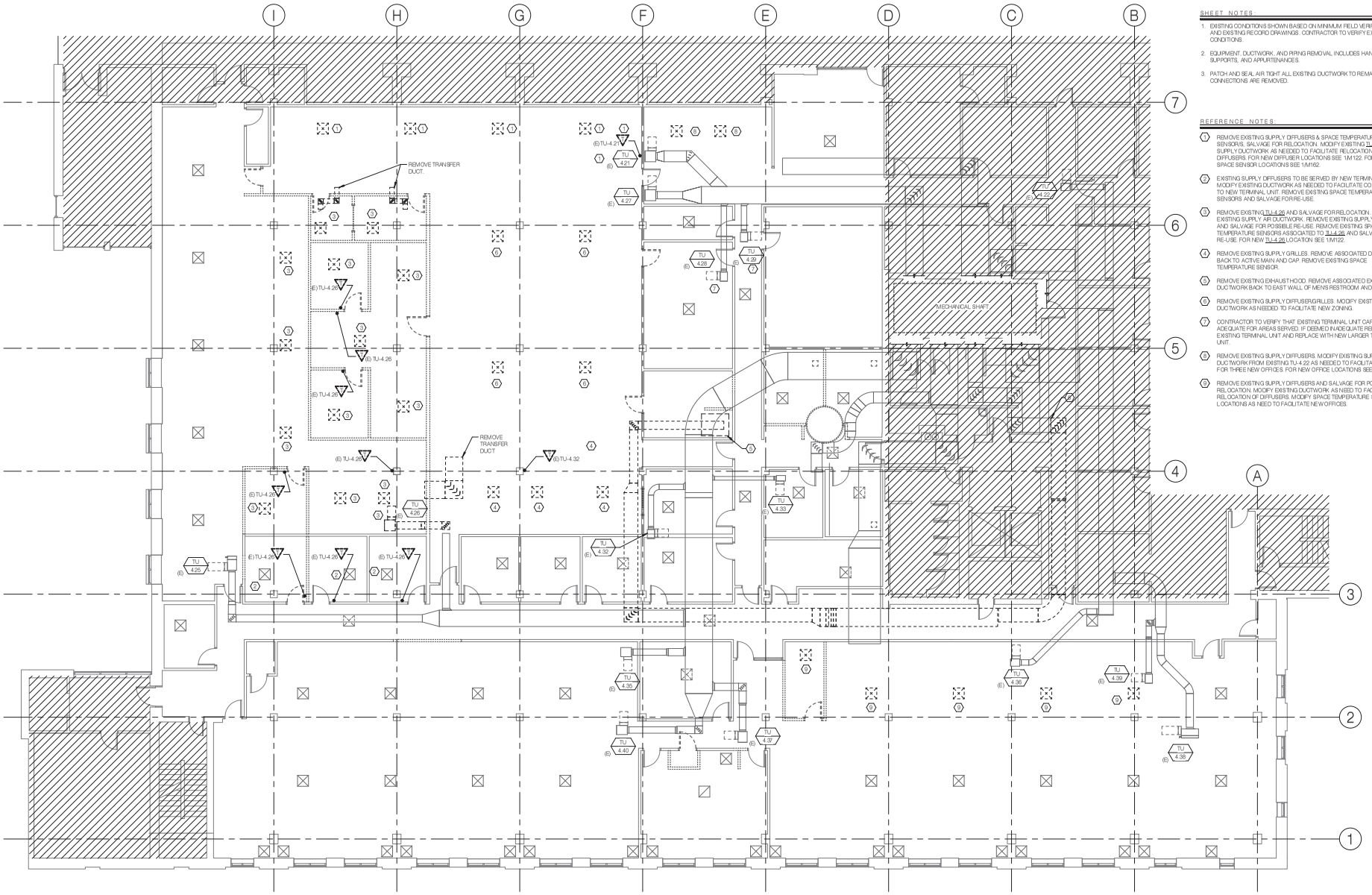


NORTH

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

SHEET NOTES:

1. EXISTING CONDITIONS SHOWN BASED ON MINIMUM FIELD VERIFICATION AND EXISTING RECORD DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
2. EQUIPMENT, DUCTWORK, AND PIPING REMOVAL INCLUDES HANGERS, SUPPORTS, AND APPURTENANCES.
3. PATCH AND SEAL AIR TIGHT ALL EXISTING DUCTWORK TO REMAIN, WHERE CONNECTIONS ARE REMOVED.

REFERENCE NOTES:

1. REMOVE EXISTING SUPPLY DIFFUSERS & SPACE TEMPERATURE SENSORS, SALVAGE FOR RELOCATION. MODIFY EXISTING TU-4.21 SUPPLY DUCTWORK AS NEEDED TO FACILITATE RELOCATION OF DIFFUSERS. FOR NEW DIFFUSER LOCATIONS SEE 1/M122. FOR NEW SPACE SENSOR LOCATIONS SEE 1/M162.
2. EXISTING SUPPLY DIFFUSERS TO BE SERVED BY NEW TERMINAL UNIT. MODIFY EXISTING DUCTWORK AS NEEDED TO FACILITATE CONNECTION TO NEW TERMINAL UNIT. REMOVE EXISTING SPACE TEMPERATURE SENSORS AND SALVAGE FOR RE-USE.
3. REMOVE EXISTING TU-4.26 AND SALVAGE FOR RELOCATION. REMOVE EXISTING SUPPLY AIR DUCTWORK. REMOVE EXISTING SUPPLY DIFFUSERS AND SALVAGE FOR POSSIBLE RE-USE. REMOVE EXISTING SPACE TEMPERATURE SENSORS ASSOCIATED TO TU-4.26 AND SALVAGE FOR RE-USE. FOR NEW TU-4.26 LOCATION SEE 1/M122.
4. REMOVE EXISTING SUPPLY GRILLES. REMOVE ASSOCIATED DUCTWORK BACK TO ACTIVE MAIN AND CAP. REMOVE EXISTING SPACE TEMPERATURE SENSOR.
5. REMOVE EXISTING EXHAUST HOOD. REMOVE ASSOCIATED EXHAUST DUCTWORK BACK TO EAST WALL OF MEN'S RESTROOM AND CAP.
6. REMOVE EXISTING SUPPLY DIFFUSERS/GRILLES. MODIFY EXISTING SUPPLY DUCTWORK AS NEEDED TO FACILITATE NEW ZONING.
7. CONTRACTOR TO VERIFY THAT EXISTING TERMINAL UNIT CAPACITY IS ADEQUATE FOR AREAS SERVED. IF DEEMED INADEQUATE REMOVE EXISTING TERMINAL UNIT AND REPLACE WITH NEW LARGER TERMINAL UNIT.
8. REMOVE EXISTING SUPPLY DIFFUSERS. MODIFY EXISTING SUPPLY AIR DUCTWORK FROM EXISTING TU-4.22 AS NEEDED TO FACILITATE SUPPLY FOR THREE NEW OFFICES. FOR NEW OFFICE LOCATIONS SEE 1/M122.
9. REMOVE EXISTING SUPPLY DIFFUSERS AND SALVAGE FOR POSSIBLE RELOCATION. MODIFY EXISTING DUCTWORK AS NEED TO FACILITATE RELOCATION OF DIFFUSERS. MODIFY SPACE TEMPERATURE SENSOR LOCATIONS AS NEED TO FACILITATE NEW OFFICES.

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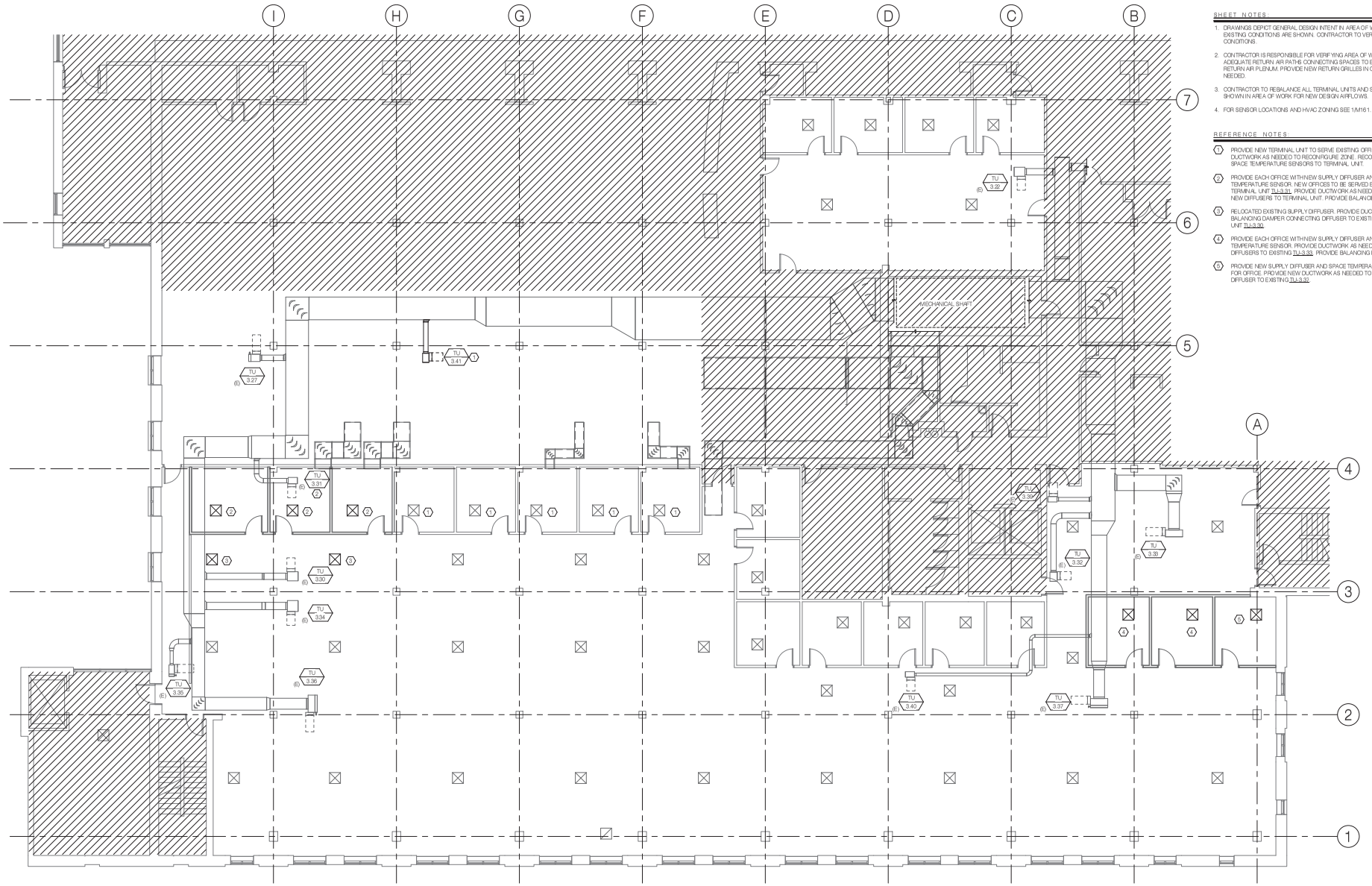


SHEET NOTES:

1. DRAWINGS DEPICT GENERAL DESIGN INTENT IN AREA OF WORK. NOT ALL EXISTING CONDITIONS ARE SHOWN. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AREA OF WORK HAVE ADEQUATE RETURN AIR PATHS CONNECTING SPACES TO EXISTING OPEN RETURN AIR PLENUM. PROVIDE NEW RETURN GRILLES IN CEILING AS NEEDED.
3. CONTRACTOR TO REBALANCE ALL TERMINAL UNITS AND SUPPLY OUTLETS SHOWN IN AREA OF WORK FOR NEW DESIGN AIRFLOWS.
4. FOR SENSOR LOCATIONS AND HVAC ZONING SEE 1/M161.

REFERENCE NOTES:

1. PROVIDE NEW TERMINAL UNIT TO SERVE EXISTING OFFICES. PROVIDE DUCTWORK AS NEEDED TO RECONFIGURE ZONE. RECONNECT EXISTING SPACE TEMPERATURE SENSORS TO TERMINAL UNIT.
2. PROVIDE EACH OFFICE WITH NEW SUPPLY DIFFUSER AND SPACE TEMPERATURE SENSOR. NEW OFFICES TO BE SERVED BY EXISTING TERMINAL UNIT TU-3.31. PROVIDE DUCTWORK AS NEEDED TO CONNECT NEW DIFFUSERS TO TERMINAL UNIT. PROVIDE BALANCING DAMPERS.
3. RELOCATED EXISTING SUPPLY DIFFUSER. PROVIDE DUCTWORK AND BALANCING DAMPER CONNECTING DIFFUSER TO EXISTING TERMINAL UNIT TU-3.30.
4. PROVIDE EACH OFFICE WITH NEW SUPPLY DIFFUSER AND SPACE TEMPERATURE SENSOR. PROVIDE DUCTWORK AS NEED TO CONNECT DIFFUSERS TO EXISTING TU-3.33. PROVIDE BALANCING DAMPERS.
5. PROVIDE NEW SUPPLY DIFFUSER AND SPACE TEMPERATURE SENSOR FOR OFFICE. PROVIDE NEW DUCTWORK AS NEEDED TO CONNECT DIFFUSER TO EXISTING TU-3.37.

NORTH

1 AIR DISTRIBUTION PLAN - THIRD FLOOR

1/8" = 1'-0"

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AIR DISTRIBUTION PLAN - THIRD FLOOR

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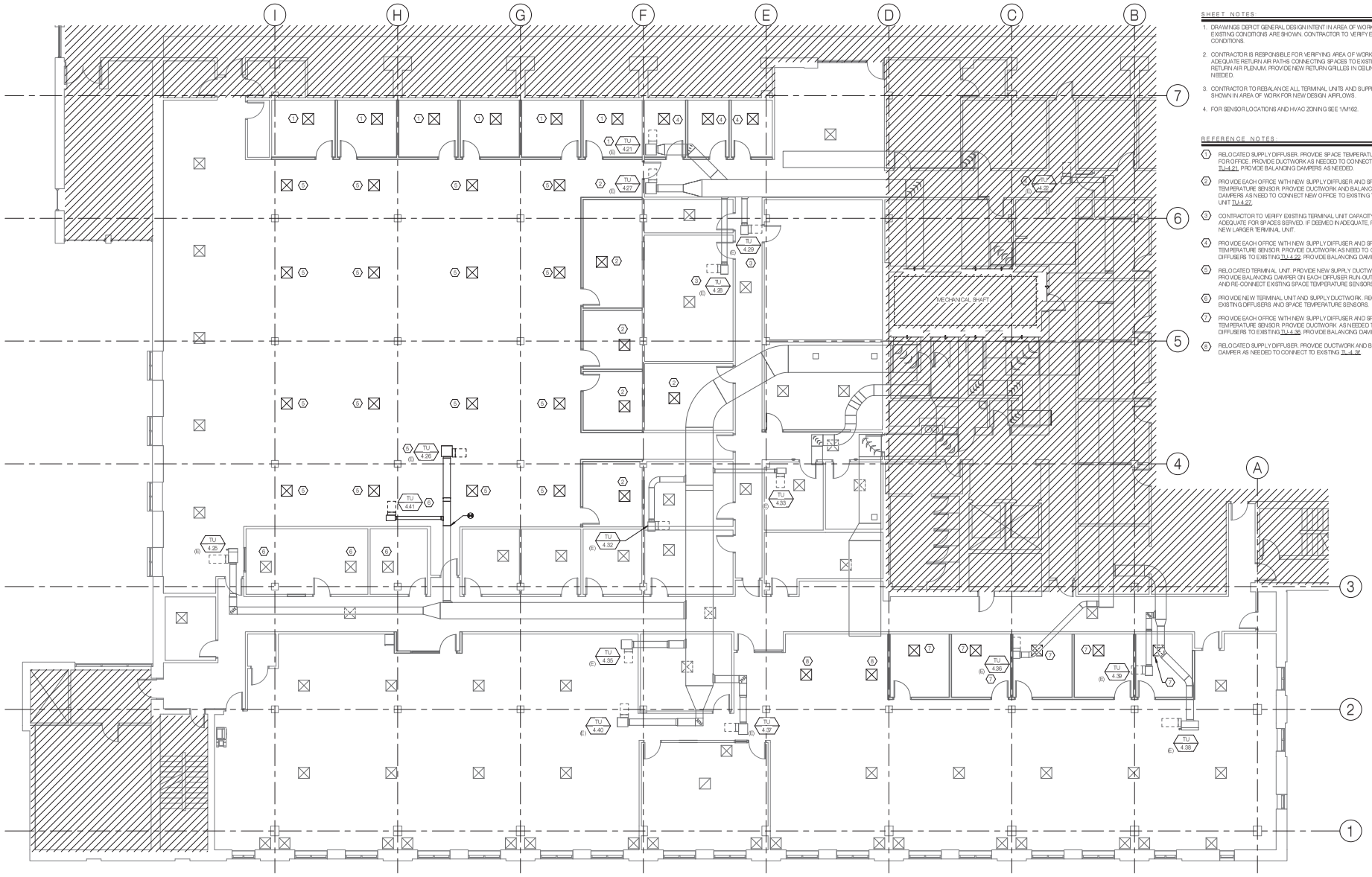


SHEET NOTES:

1. DRAWINGS DEPICT GENERAL DESIGN INTENT IN AREA OF WORK. NOT ALL EXISTING CONDITIONS ARE SHOWN. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AREA OF WORK HAVE ADEQUATE RETURN AIR PATHS CONNECTING SPACES TO EXISTING OPEN RETURN AIR PLENUM. PROVIDE NEW RETURN GRILLES IN CEILING AS NEEDED.
3. CONTRACTOR TO REBALANCE ALL TERMINAL UNITS AND SUPPLY OUTLETS SHOWN IN AREA OF WORK FOR NEW DESIGN AIRFLOWS.
4. FOR SENSOR LOCATIONS AND HVAC ZONING SEE 1/M162.

REFERENCE NOTES:

1. RELOCATED SUPPLY DIFFUSER. PROVIDE SPACE TEMPERATURE SENSOR FOR OFFICE. PROVIDE DUCTWORK AS NEEDED TO CONNECT TO EXISTING TU-4.21. PROVIDE BALANCING DAMPERS AS NEEDED.
2. PROVIDE EACH OFFICE WITH NEW SUPPLY DIFFUSER AND SPACE TEMPERATURE SENSOR. PROVIDE DUCTWORK AND BALANCING DAMPERS AS NEED TO CONNECT NEW OFFICE TO EXISTING TERMINAL UNIT TU-4.27.
3. CONTRACTOR TO VERIFY EXISTING TERMINAL UNIT CAPACITY IS ADEQUATE FOR SPACES SERVED. IF DEEMED INADEQUATE, PROVIDE NEW LARGER TERMINAL UNIT.
4. PROVIDE EACH OFFICE WITH NEW SUPPLY DIFFUSER AND SPACE TEMPERATURE SENSOR. PROVIDE DUCTWORK AS NEED TO CONNECT DIFFUSERS TO EXISTING TU-4.22. PROVIDE BALANCING DAMPERS.
5. RELOCATED TERMINAL UNIT. PROVIDE NEW SUPPLY DUCTWORK. PROVIDE BALANCING DAMPER ON EACH DIFFUSER RUN-OUT. RE-LOCATE AND RE-CONNECT EXISTING SPACE TEMPERATURE SENSORS.
6. PROVIDE NEW TERMINAL UNIT AND SUPPLY DUCTWORK. RECONNECT EXISTING DIFFUSERS AND SPACE TEMPERATURE SENSORS.
7. PROVIDE EACH OFFICE WITH NEW SUPPLY DIFFUSER AND SPACE TEMPERATURE SENSOR. PROVIDE DUCTWORK AS NEEDED TO CONNECT DIFFUSERS TO EXISTING TU-4.36. PROVIDE BALANCING DAMPERS.
8. RELOCATED SUPPLY DIFFUSER. PROVIDE DUCTWORK AND BALANCING DAMPER AS NEEDED TO CONNECT TO EXISTING TU-4.36.

NORTH

1 AIR DISTRIBUTION PLAN - FOURTH FLOOR
1/8" = 1'-0"

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AIR DISTRIBUTION PLAN - FOURTH FLOOR

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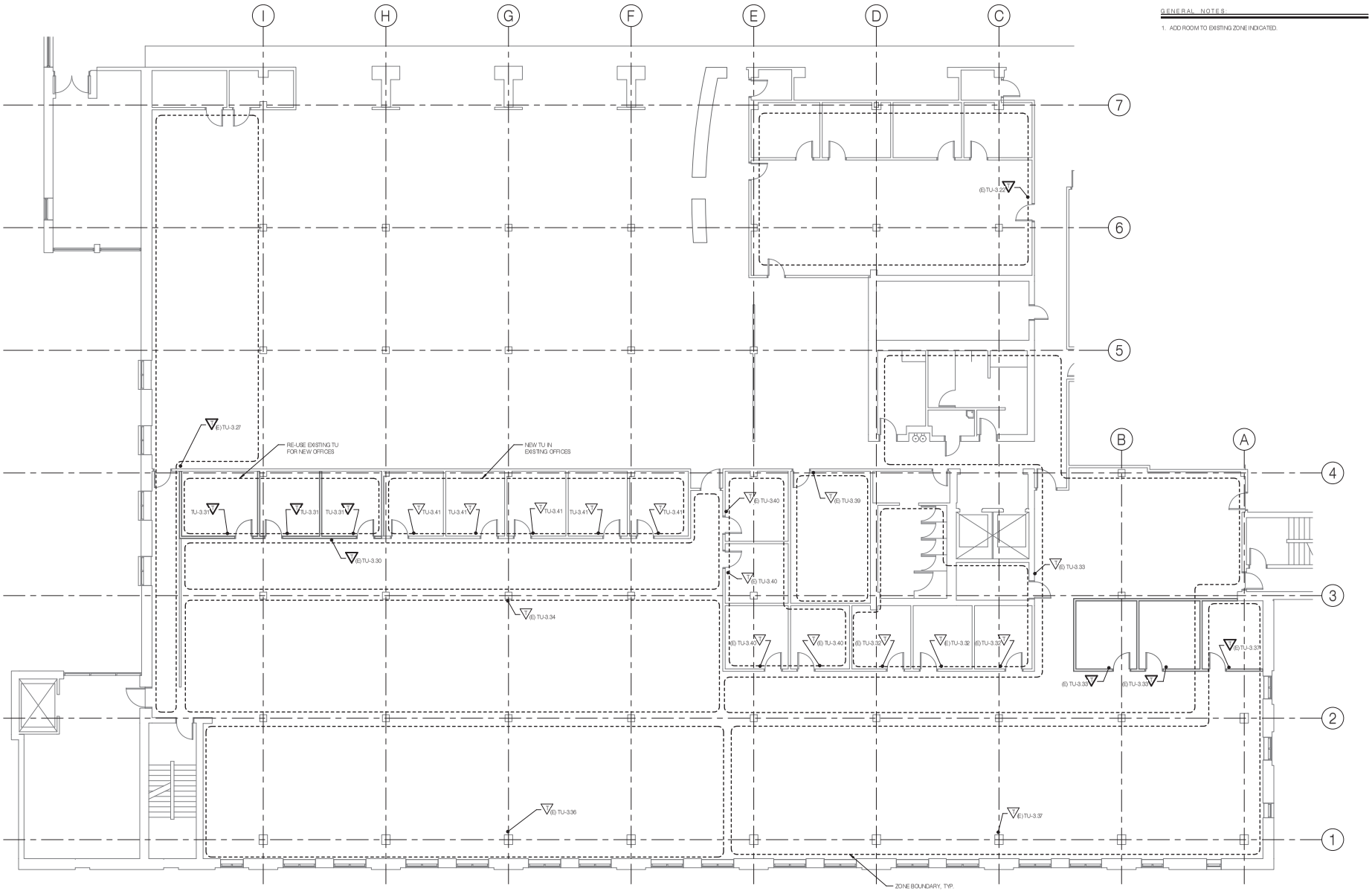
GENERAL NOTES:

1. ADD ROOM TO EXISTING ZONE INDICATED.




NORTH

1 HVAC ZONING PLAN - THIRD FLOOR

1/8" = 1'-0"

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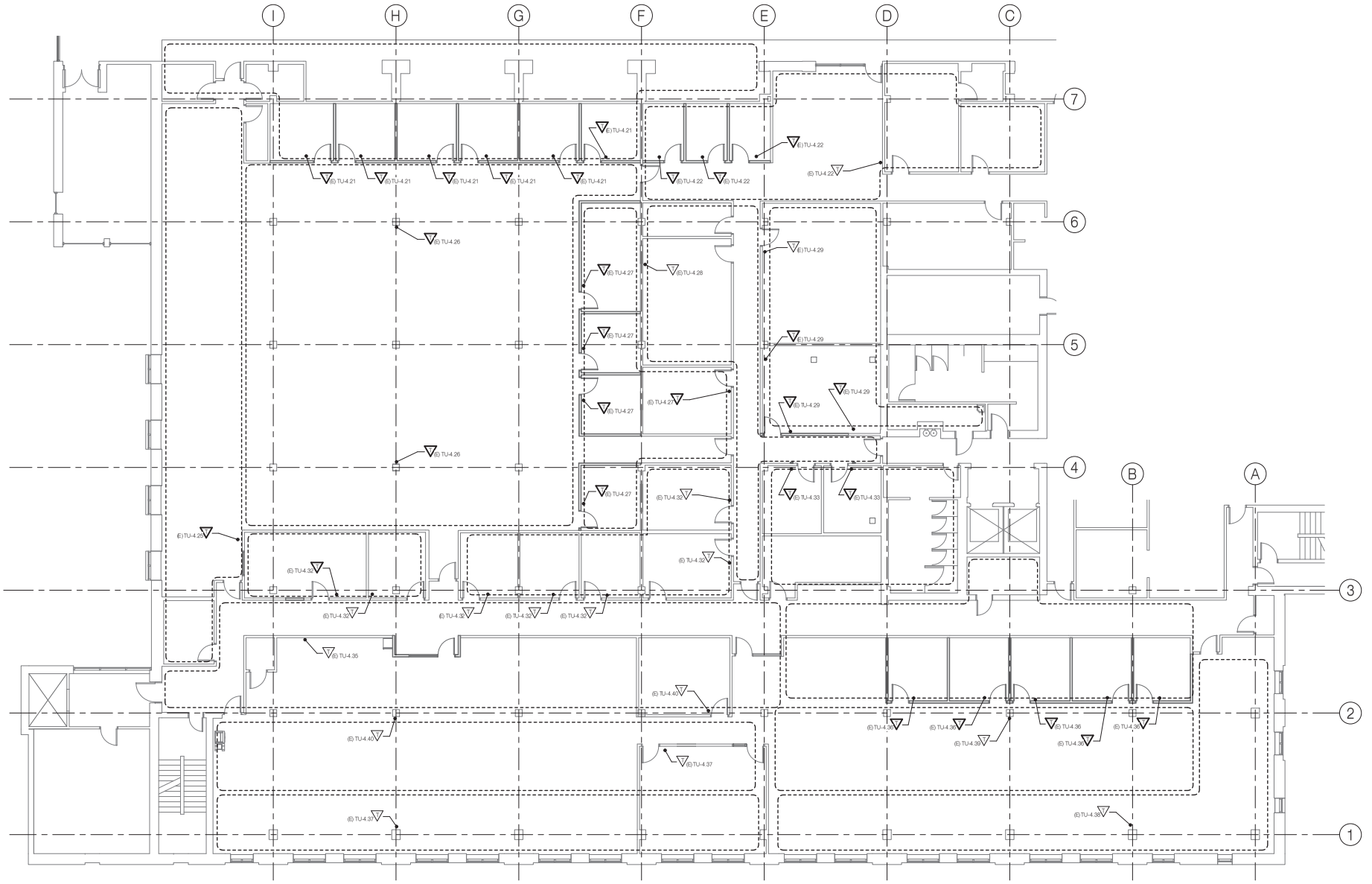


NORTH

1 HVAC ZONING PLAN - FOURTH FLOOR

1/8" = 1'-0"

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# PLUMBING LEGEND

## PIPING

| SYMBOL | ABBREV. | DESCRIPTION |
|---|---|---|
| **FIRE PROTECTION PIPING:** | | |
| F | F | FIRE SPRINKLER SUPPLY |
| **PLUMBING PIPING:** | | |
| CW | CW | POTABLE COLD WATER |
| HW | HW | POTABLE HOT WATER |
| HWR | HWR | POTABLE HOT WATER RETURN |
| SD | SD | STORM DRAIN |
| OD | OD | OVERFLOW DRAIN |

| SYMBOL | ABBREV. | DESCRIPTION |
|---|---|---|
| | | PIPING UP |
| | | PIPING DOWN |
| S = .01 | | SLOPE OF PIPE IN DECIMALS OF FEET |
| | | CAPPED PIPE |
| | | PIPE REDUCING FITTING: CONCENTRIC, ECCENTRIC |
| | | DIRECTION OF FLOW |
| | | UNION |
| | DV | DRAIN VALVE |
| | BV | BALL VALVE |
| | COTG, FCO | CLEANOUT TO GRADE, FLOOR CLEANOUT |
| | WCO | WALL CLEANOUT |
| | FD | FLOOR DRAIN |
| | | WATER HAMMER ARRESTOR |

## GENERAL

| SYMBOL | ABBREVIATION | DESCRIPTION |
|---|---|---|
| (E) | | EXISTING |
| OR d a | | DIAMETER |
| | | NEW TO EXISTING POINT OF CONNECTION |
| | | NOTE REFERENCE MARKER |
| 2 / M-123 | 2 / M-501 | PLAN OR DETAIL NUMBER / SHEET NUMBER — PLAN OR DETAIL REFERENCE MARKER |
| A / M-401 | | SECTION LETTER / SHEET NUMBER — SECTION REFERENCE MARKER |
| EF 2 | | EQUIPMENT TYPE / EQUIPMENT NUMBER — EQUIPMENT MARKER |
| 208 | | ROOM NUMBER |
| | | EXISTING SHOWN LIGHT |
| | | NEW WORK SHOWN BOLD |
| | | EXISTING TO BE REMOVED |
| | | AREA NOT IN PROJECT SCOPE |

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| ACH | AIR CHANGES PER HOUR | IN WC | INCHES WATER COLUMN |
| AFF | ABOVE FINISHED FLOOR | IPLV | INTEGRATED PART LOAD VALUE |
| AFS | AUTOMATIC FIRE SPRINKLER | IW | INDIRECT WASTE |
| AL | ALUMINUM | LBS | POUNDS |
| ALT | ALTERNATE | LWT | LEAVING WATER TEMPERATURE |
| BAS | BUILDING AUTOMATION SYSTEM | Ma | MILLIAMPERE |
| BHP | BRAKE HORSEPOWER | MAX | MAXIMUM |
| BOP | BOTTOM OF PIPE | MBH | THOUSAND BTUs per HOUR |
| BTUH | BRITISH THERMAL UNITS PER HOUR | MCA | MINIMUM CIRCUIT AMPS |
| CFH | CUBIC FEET per HOUR | MFGR | MANUFACTURER |
| CFM | CUBIC FEET per MINUTE | MIN | MINIMUM |
| CMU | CONCRETE MASONRY UNIT | MOP | MAX. OVERCURRENT PROTECTION |
| CONC | CONCRETE | NC | NOISE CRITERIA |
| CONT | CONTINUATION | NC | NORMALLY CLOSED |
| DB | DRY BULB | NIC | NOT IN CONTRACT |
| Dba | DECIBELS ACOUSTIC | NO | NORMALLY OPEN |
| DN | DOWN | NPLV | NON-STANDARD PART LOAD VALUE |
| DP | DIFFERENTIAL PRESSURE | NPSH | NET POSITIVE SUCTION HEAD |
| EFF | EFFICIENCY | OFCI | OWNER FURNISHED/CONTRACTOR INSTALLED |
| EWT | ENTERING WATER TEMPERATURE | PD | PRESSURE DROP |
| FLA | FULL LOAD AMPS | PH | PHASE |
| FPM | FEET PER MINUTE | PPH | POUNDS per HOUR |
| FT | FEET | PSI | POUNDS per SQUARE INCH GAUGE |
| FT WC | FEET WATER COLUMN | RD | ROOF DRAIN |
| FUT | FUTURE | REQD | REQUIRED |
| GPH | GALLONS PER HOUR | RH | RELATIVE HUMIDITY |
| GPM | GALLONS PER MINUTE | RPM | REVOLUTIONS per MINUTE |
| GYP BD | GYPSUM WALL BOARD | SS | STAINLESS STEEL |
| HP | HORSEPOWER | STL | STEEL |
| HVAC | HEATING, VENTILATING, & AIR CONDITIONING | TYP | TYPICAL |
| HZ | HERTZ (CYCLES PER SECOND) | VFD | VARIABLE FREQUENCY DRIVE |
| IAQ | INDOOR AIR QUALITY | WB | WET BULB |
| IE | INVERT ELEVATION | WC | WATER COLUMN |
| IN | INCHES | WG | WATER GAUGE |

## GENERAL NOTES

1. THE FACILITY WILL REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SHUTDOWNS AND CONSTRUCTION ACTIVITY WITH FACILITIES STAFF.
2. SIZE AND LOCATION OF ALL PIPING AND OTHER MECHANICAL EQUIPMENT IS APPROXIMATE. CONTRACTOR SHALL SITE VERIFY THE EXACT LOCATION OF EXISTING AND CONSTRUCT ALL WORK FROM FIELD DIMENSIONS. CONTRACTOR SHALL MAKE ADJUSTMENTS NECESSARY TO ACCOMMODATE MINOR DEVIATIONS AT NO COST TO OWNER.
3. FINE (LIGHT) LINE WORK INDICATES EXISTING PIPING AND OTHER MECHANICAL EQUIPMENT. BOLD (HEAVY) LINE WORK INDICATES NEW PIPING AND OTHER MECHANICAL EQUIPMENT.
4. DRAWINGS DEPICT GENERAL DESIGN INTENT IN AREAS OF WORK. CONTRACTOR TO COMPLETE DESIGN AND PREPARE CONSTRUCTION DOCUMENTS, SUITABLE FOR PERMIT TO CITY OF CORVALLIS.
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**PLUMBING LEGEND & GENERAL NOTES**

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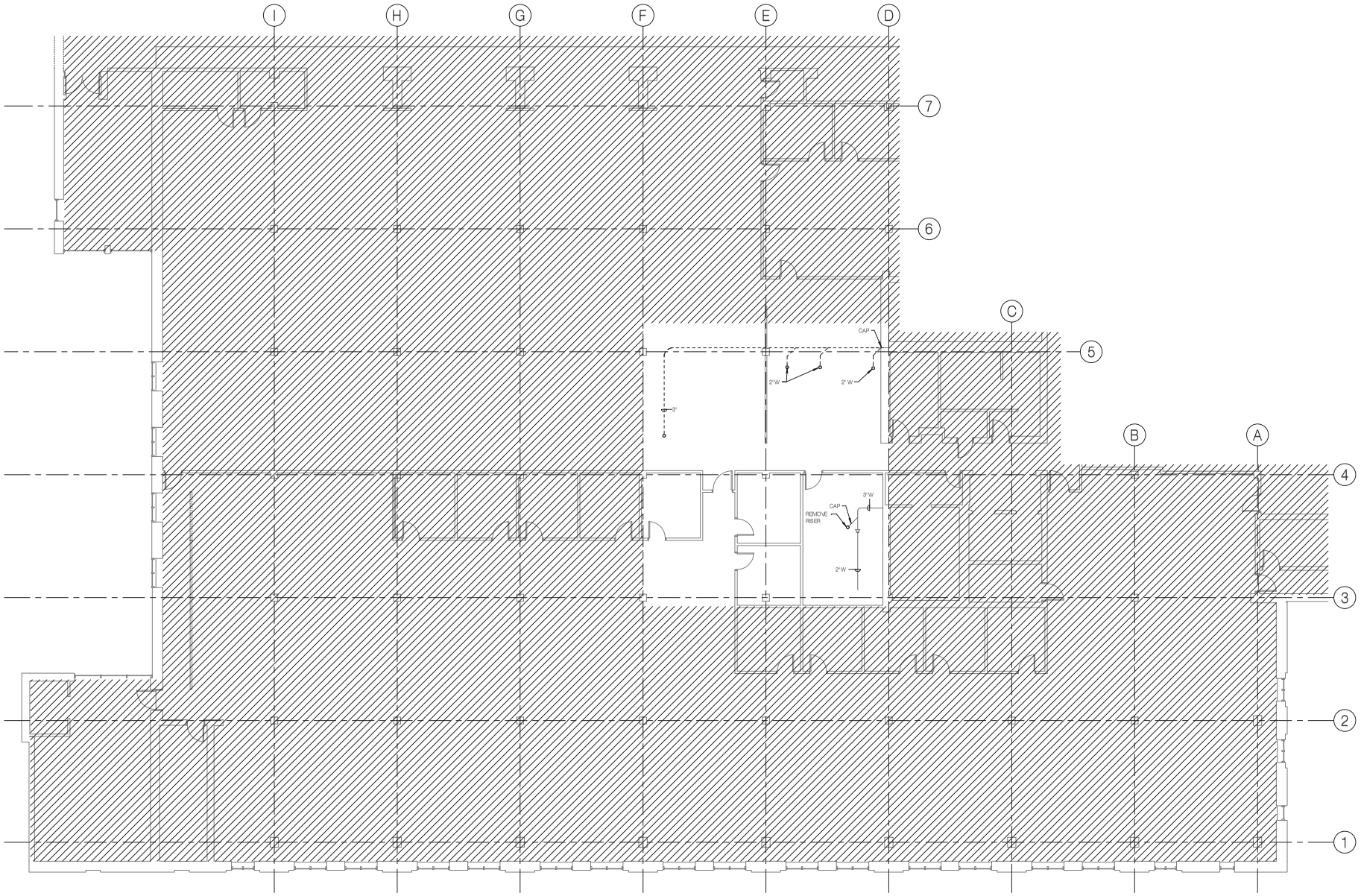


NORTH

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

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Sheet:

PLUMBING DEMOLITION - THIRD FLOOR

CONSTRUCTION SET

P101

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C:\Users\ngw.SYSTEMSWEST\Documents\T049.04_OSU Valley Library_v17_jwalker@systemswestengineers.com.rvt

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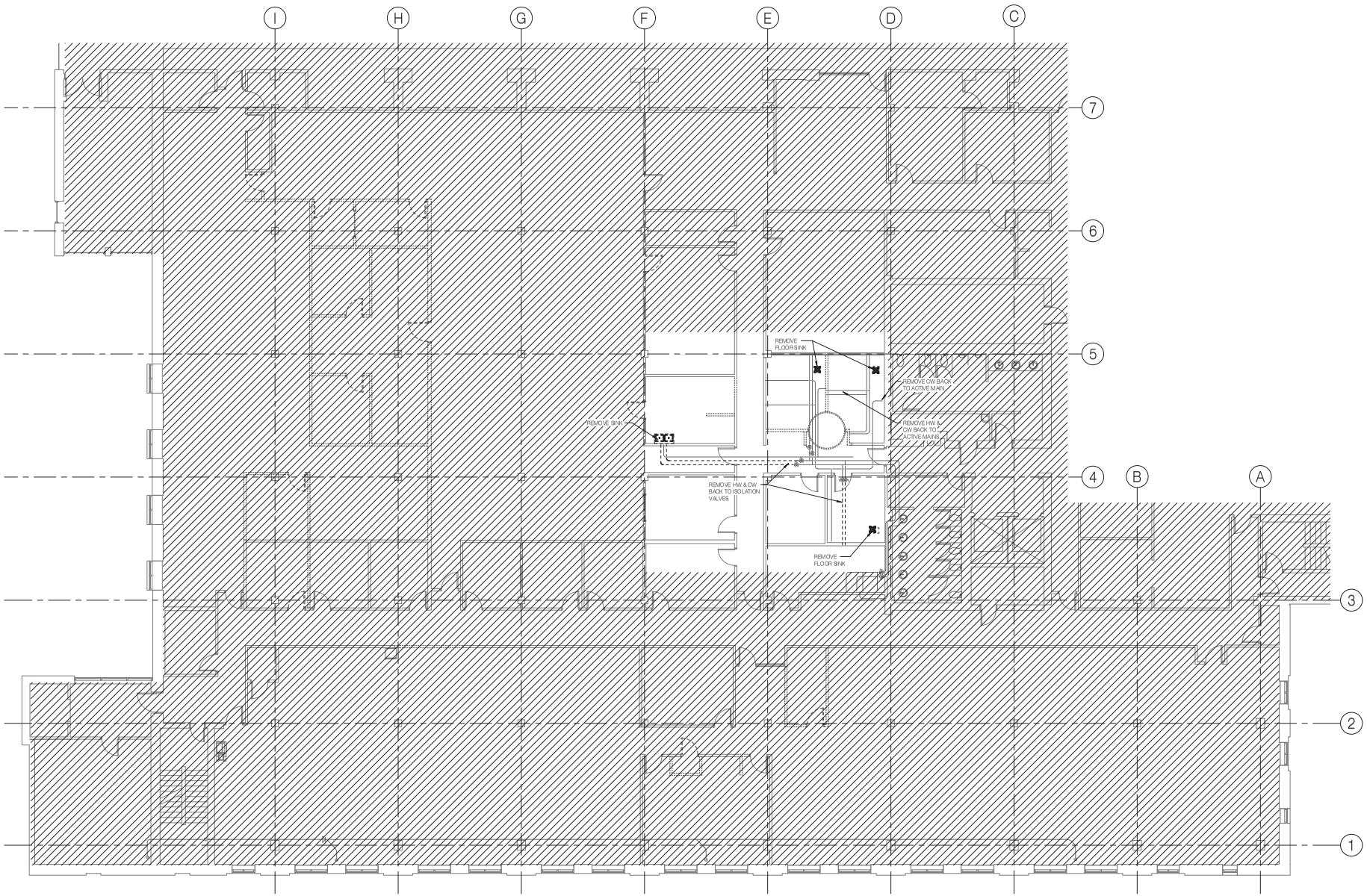


NORTH

1 PLUMBING DEMOLITION PLAN - FOURTH FLOOR

1/8" = 1'-0"

Oregon State University

SYSTEMS WEST ENGINEERS
725 A Street
Springfield, OR 97477
541.342.7210
systemswestengineers.com
SWE Proj No. T049.04

BASIS OF DESIGN, NOT FOR CONSTRUCTION

Hennebery Eddy Architects Inc.
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PORTLAND OREGON 97205
503 227 4860 TEL
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OREGON STATE UNIVERSITY

VALLEY LIBRARY 3RD & 4TH FLOOR TI
201 SW WALDO PL.
CORVALLIS, OR 97331

HEA Project no. 17050
Date: AUGUST 17, 2016
CONSTRUCTION SET
Revisions:

Drawn by: JSH
Checked by: PEF
Sheet:

PLUMBING DEMOLITION - FOURTH FLOOR

CONSTRUCTION SET

P102

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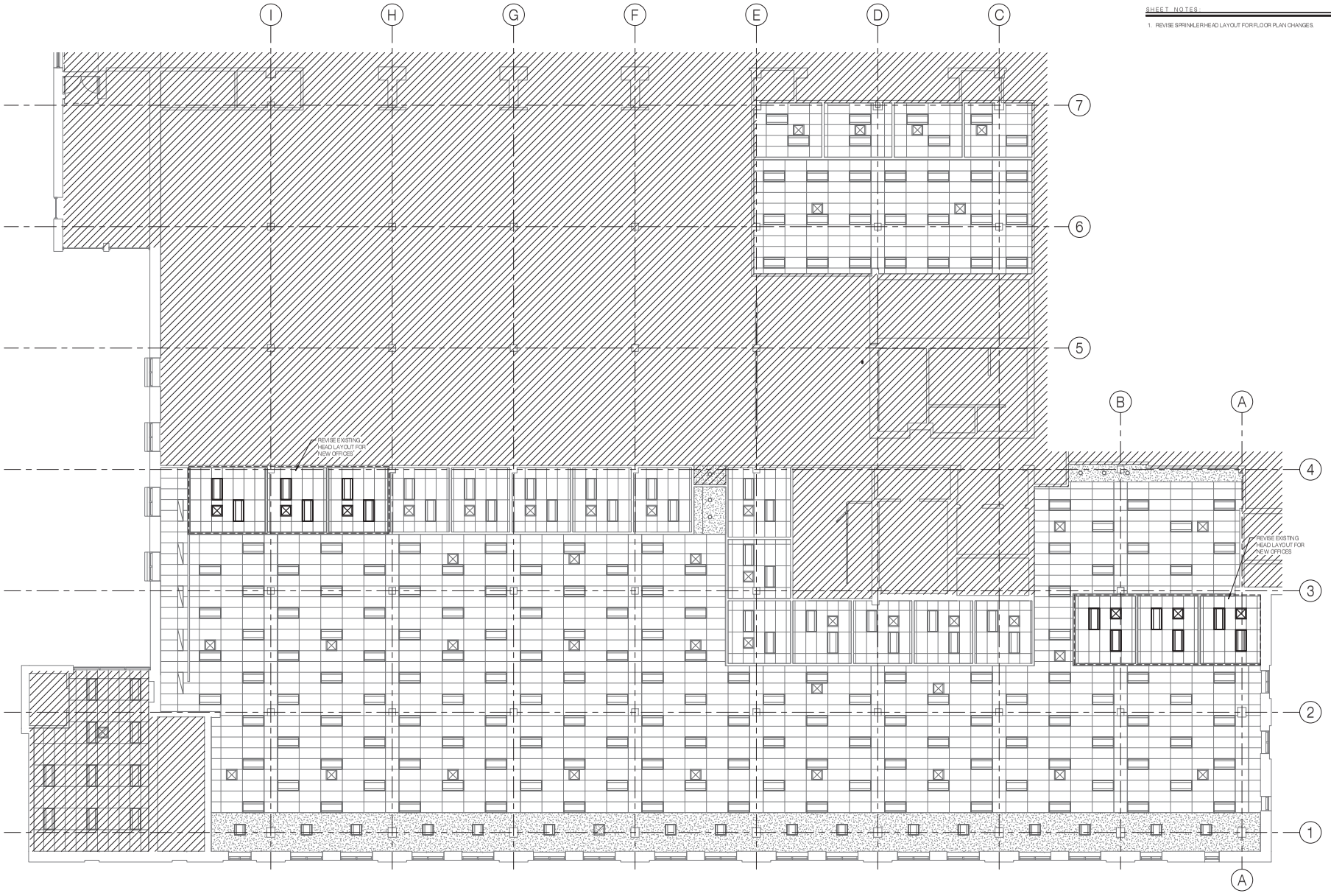


SHEET NOTES

1. REVISE SPRINKLER HEAD LAYOUT FOR FLOOR PLAN CHANGES.

NORTH

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

Oregon State University

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725 A Street
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HEA Project no. 17050
Date: AUGUST 17, 2018
CONSTRUCTION SET
Revisions:

Drawn by: JSH
Checked by: PEF
Sheet:

CONSTRUCTION SET

PLUMBING/FIRE PROTECTION PLAN - THIRD FLOOR

P111

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NORTH

1 **4TH FLOOR**
1/8" = 1'-0"

SHEET NOTES:

1. REVISE SPRINKLER HEAD LAYOUT FOR FLOOR PLAN CHANGES.

Oregon State University

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541.342.7210
systemswestengineers.com
SWE Proj. No. T049.04

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HEA Project no. 17050
Date: AUGUST 17, 2018
CONSTRUCTION SET

Revisions:

Drawn by: JSH
Checked by: PEF
Sheet: PLUMBING/FIRE PROTECTION PLAN - FOURTH FLOOR

CONSTRUCTION SET

P112

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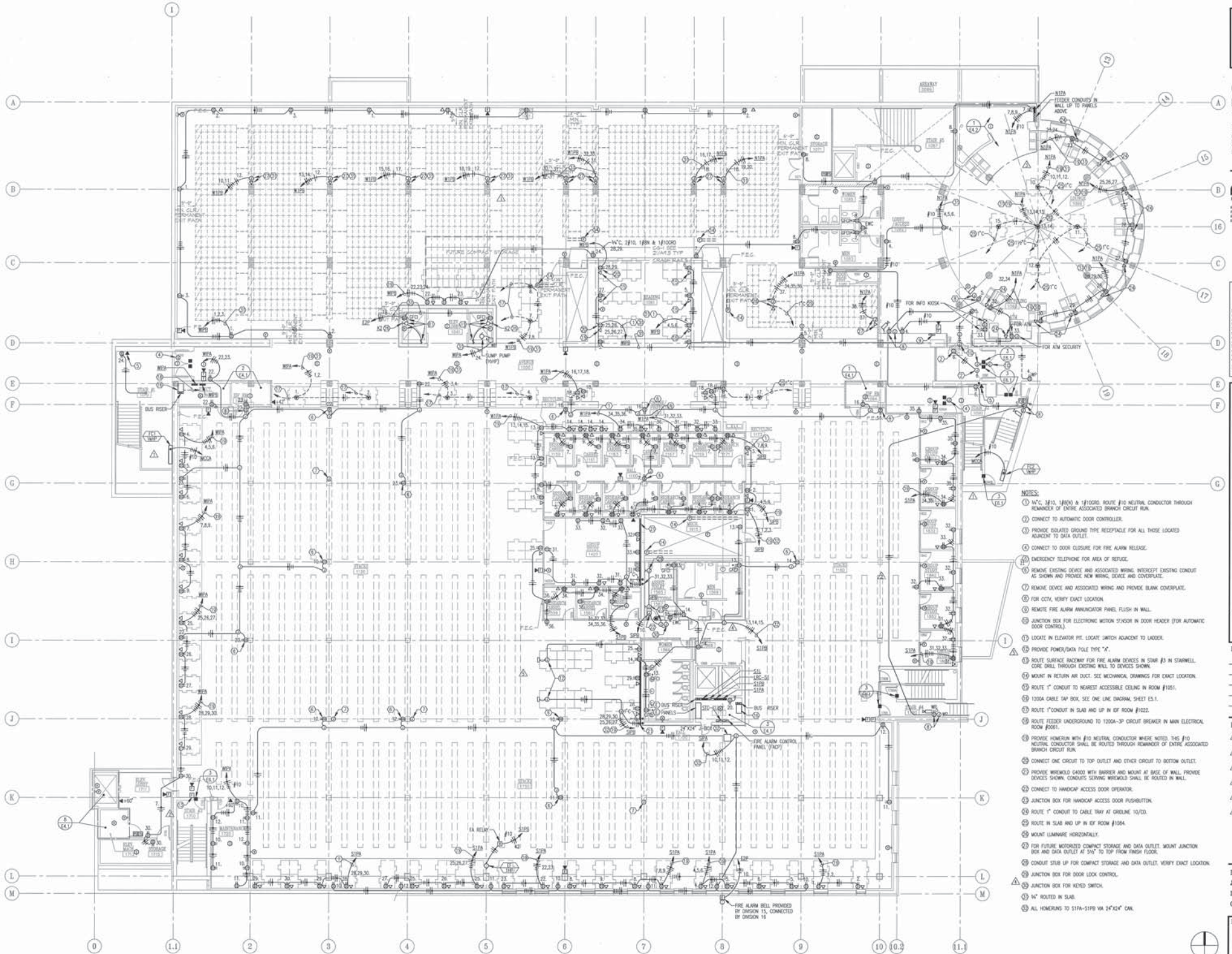
11/28/2018 9:39:52 PM




## NOTES:

1. ¾"C, 3#10, 1#8(N) & 1#10GRD. ROUTE #10 NEUTRAL CONDUCTOR THROUGH REMAINDER OF ENTIRE ASSOCIATED BRANCH CIRCUIT RUN.
2. CONNECT TO AUTOMATIC DOOR CONTROLLER.
3. PROVIDE ISOLATED GROUND TYPE RECEPTACLE FOR ALL THOSE LOCATED ADJACENT TO DATA OUTLET.
4. CONNECT TO DOOR CLOSURE FOR FIRE ALARM RELEASE.
5. EMERGENCY TELEPHONE FOR AREA OF REFUGE.
6. REMOVE EXISTING DEVICE AND ASSOCIATED WIRING. INTERCEPT EXISTING CONDUIT AS SHOWN AND PROVIDE NEW WIRING, DEVICE AND COVERPLATE.
7. REMOVE DEVICE AND ASSOCIATED WIRING AND PROVIDE BLANK COVERPLATE.
8. FOR CCTV, VERIFY EXACT LOCATION.
9. REMOTE FIRE ALARM ANNUNCIATOR PANEL FLUSH IN WALL.
10. JUNCTION BOX FOR ELECTRONIC MOTION SENSOR IN DOOR HEADER (FOR AUTOMATIC DOOR CONTROL).
11. LOCATE IN ELEVATOR PIT. LOCATE SWITCH ADJACENT TO LADDER.
12. PROVIDE POWER/DATA POLE TYPE "A".
13. ROUTE SURFACE RACEWAY FOR FIRE ALARM DEVICES IN STAIR #3 IN STAIRWELL. CORE DRILL THROUGH EXISTING WALL TO DEVICES SHOWN.
14. MOUNT IN RETURN AIR DUCT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.
15. ROUTE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING IN ROOM #1051.
16. 1200A CABLE TAP BOX, SEE ONE LINE DIAGRAM, SHEET E5.1.
17. ROUTE 1"CONDUIT IN SLAB AND UP IN IDF ROOM #1022.
18. ROUTE FEEDER UNDERGROUND TO 1200A-3P CIRCUIT BREAKER IN MAIN ELECTRICAL ROOM #0061.
19. PROVIDE HOMERUN WITH #10 NEUTRAL CONDUCTOR WHERE NOTED. THIS #10 NEUTRAL CONDUCTOR SHALL BE ROUTED THROUGH REMAINDER OF ENTIRE ASSOCIATED BRANCH CIRCUIT RUN.
20. CONNECT ONE CIRCUIT TO TOP OUTLET AND OTHER CIRCUIT TO BOTTOM OUTLET.
21. PROVIDE WIREMOLD C4000 WITH BARRIER AND MOUNT AT BASE OF WALL. PROVIDE DEVICES SHOWN. CONDUITS SERVING WIREMOLD SHALL BE ROUTED IN WALL.
22. CONNECT TO HANDICAP ACCESS DOOR OPERATOR.
23. JUNCTION BOX FOR HANDICAP ACCESS DOOR PUSHBUTTON.
24. ROUTE 1" CONDUIT TO CABLE TRAY AT GRIDLINE 10/CD.
25. ROUTE IN SLAB AND UP IN IDF ROOM #1064.
26. MOUNT LUMINAIRE HORIZONTALLY.
27. FOR FUTURE MOTORIZED COMPACT STORAGE AND DATA OUTLET. MOUNT JUNCTION BOX AND DATA OUTLET AT 5'6" TO TOP FROM FINISH FLOOR.
28. CONDUIT STUB UP FOR COMPACT STORAGE AND DATA OUTLET. VERIFY EXACT LOCATION.
29. JUNCTION BOX FOR DOOR LOCK CONTROL.
30. JUNCTION BOX FOR KEYED SWITCH.
31. ¾" ROUTED IN SLAB.
32. ALL HOMERUNS TO S1PA-S1PB VIA 24"X24" CAN.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FAX: (503) 294-0272

PAE Consulting Engineers Inc.
808 S.W. 3rd Avenue
Portland, Oregon
97204-2428
503/228-2901


**RECORD DRAWING**

NOTE: Documents have been corrected as per data supplied by Contractor and Tenderer / Change Order Drawings. They do not necessarily show all existing conditions and may not be completely accurate. Field verify existing / hidden conditions prior to commencement of new work.

DATE: MARCH 1, 1999

# CENTRAL LIBRARY EXPANSION

OREGON STATE UNIVERSITY — CORVALLIS, OREGON

**Drawing Title**

PLAN
FIRST FLOOR
POWER AND SIGNAL

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

**Revision:**

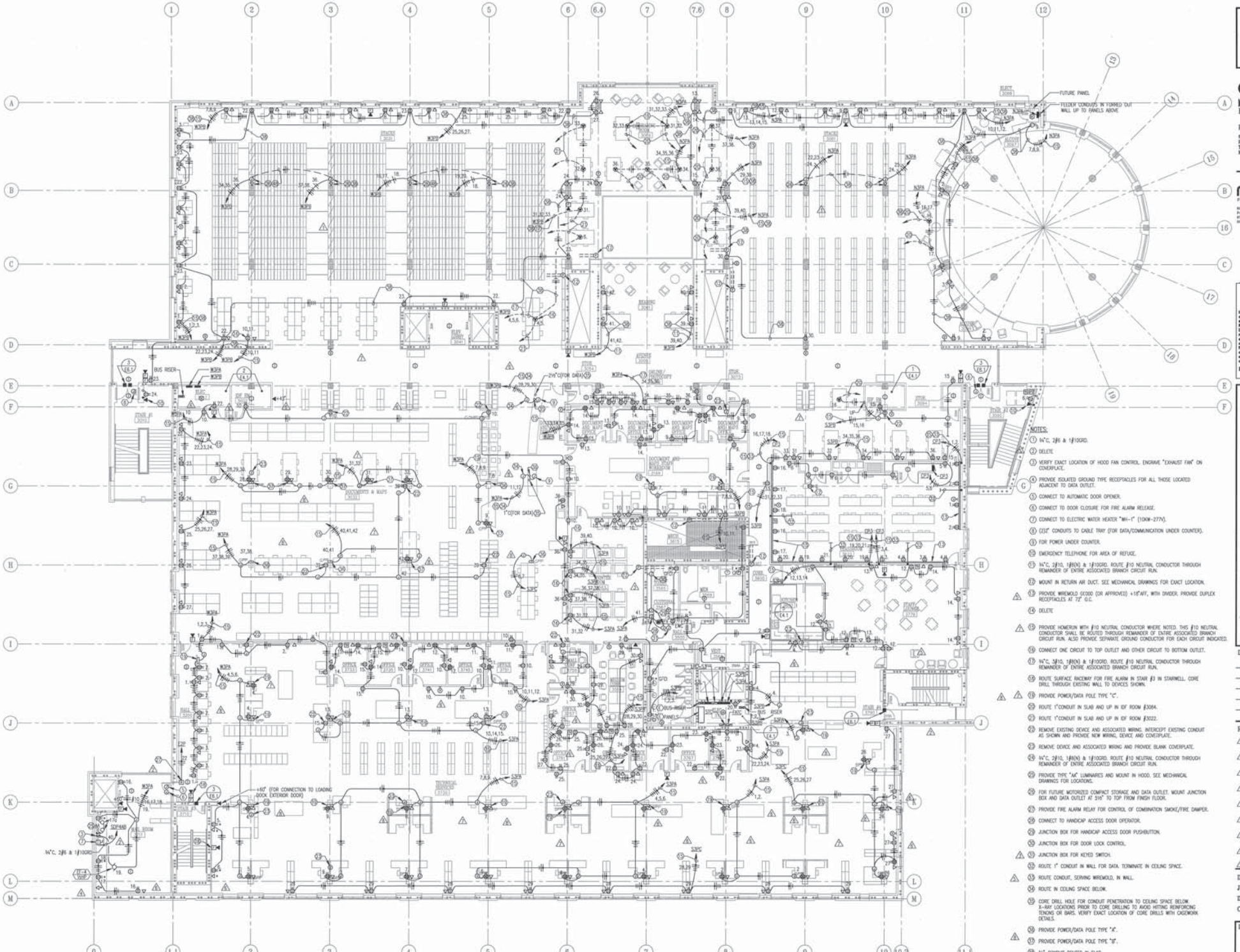
1. ADDENDUM NO. 1 MARCH 29, 1996
2. ADDENDUM NO. 3 APRIL 5, 1996
3. 1SR29 NOV. 4, 1996
4. 1SR30 NOV. 8, 1996
5. 1SR150 FEB. 2, 1998
6. RECORD SET MARCH 1, 1999

Date: NOV. 4, 1996
Job No.: 9005
Drawn by: DRS
Checked by: RAS

Drawing No.

**E3.1**

11:19 01/05/99 • proj: 0764500 • file: 0SULE31 • attachments: T0764SZ 2DSULF1 • by: KW • <<HALF SCALE>>




NOTES:

1. ¾"C, 2#6 & 1#10GRD.
2. DELETE
3. VERIFY EXACT LOCATION OF HOOD FAN CONTROL. ENGRAVE "EXHAUST FAN" ON COVERPLATE.
4. PROVIDE ISOLATED GROUND TYPE RECEPTACLES FOR ALL THOSE LOCATED ADJACENT TO DATA OUTLET.
5. CONNECT TO AUTOMATIC DOOR OPENER.
6. CONNECT TO DOOR CLOSURE FOR FIRE ALARM RELEASE.
7. CONNECT TO ELECTRIC WATER HEATER "WH-1" (10KW-277V).
8. (2)1" CONDUITS TO CABLE TRAY (FOR DATA/COMMUNICATION UNDER COUNTER).
9. FOR POWER UNDER COUNTER.
10. EMERGENCY TELEPHONE FOR AREA OF REFUGE.
11. ¾"C, 2#10, 1#6(N) & 1#10GRD. ROUTE #10 NEUTRAL CONDUCTOR THROUGH REMAINDER OF ENTIRE ASSOCIATED BRANCH CIRCUIT RUN.
12. MOUNT IN RETURN AIR DUCT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.
13. PROVIDE WIREMOLD GC600 (OR APPROVED) +18"AFF, WITH DIVIDER. PROVIDE DUPLEX RECEPTACLES AT 72" O.C.
14. DELETE
15. PROVIDE HOMERUN WITH #10 NEUTRAL CONDUCTOR WHERE NOTED. THIS #10 NEUTRAL CONDUCTOR SHALL BE ROUTED THROUGH REMAINDER OF ENTIRE ASSOCIATED BRANCH CIRCUIT RUN. ALSO PROVIDE SEPARATE GROUND CONDUCTOR FOR EACH CIRCUIT INDICATED.
16. CONNECT ONE CIRCUIT TO TOP OUTLET AND OTHER CIRCUIT TO BOTTOM OUTLET.
17. ¾"C, 3#10, 1#6(N) & 1#10GRD. ROUTE #10 NEUTRAL CONDUCTOR THROUGH REMAINDER OF ENTIRE ASSOCIATED BRANCH CIRCUIT RUN.
18. ROUTE SURFACE RACEWAY FOR FIRE ALARM IN STAIR #3 IN STAIRWELL. CORE DRILL THROUGH EXISTING WALL TO DEVICES SHOWN.
19. PROVIDE POWER/DATA POLE TYPE "C".
20. ROUTE 1"CONDUIT IN SLAB AND UP IN IDF ROOM #3084.
21. ROUTE 1"CONDUIT IN SLAB AND UP IN IDF ROOM #3022.
22. REMOVE EXISTING DEVICE AND ASSOCIATED WIRING. INTERCEPT EXISTING CONDUIT AS SHOWN AND PROVIDE NEW WIRING, DEVICE AND COVERPLATE.
23. REMOVE DEVICE AND ASSOCIATED WIRING AND PROVIDE BLANK COVERPLATE.
24. ¾"C, 2#10, 1#6(N) & 1#10GRD. ROUTE #10 NEUTRAL CONDUCTOR THROUGH REMAINDER OF ENTIRE ASSOCIATED BRANCH CIRCUIT RUN.
25. PROVIDE TYPE "AK" LUMINARES AND MOUNT IN HOOD. SEE MECHANICAL DRAWINGS FOR LOCATIONS.
26. FOR FUTURE MOTORIZED COMPACT STORAGE AND DATA OUTLET. MOUNT JUNCTION BOX AND DATA OUTLET AT 5½" TO TOP FROM FINISH FLOOR.
27. PROVIDE FIRE ALARM RELAY FOR CONTROL OF COMBINATION SMOKE/FIRE DAMPER.
28. CONNECT TO HANDICAP ACCESS DOOR OPERATOR.
29. JUNCTION BOX FOR HANDICAP ACCESS DOOR PUSHBUTTON.
30. JUNCTION BOX FOR DOOR LOCK CONTROL.
31. JUNCTION BOX FOR KEYED SWITCH.
32. ROUTE 1" CONDUIT IN WALL FOR DATA. TERMINATE IN CEILING SPACE.
33. ROUTE CONDUIT, SERVING WIREMOLD, IN WALL.
34. ROUTE IN CEILING SPACE BELOW.
35. CORE DRILL HOLE FOR CONDUIT PENETRATION TO CEILING SPACE BELOW. X-RAY LOCATIONS PRIOR TO CORE DRILLING TO AVOID HITTING REINFORCING TENDONS OR BARS. VERIFY EXACT LOCATION OF CORE DRILLS WITH CASEWORK DETAILS.
36. PROVIDE POWER/DATA POLE TYPE "A".
37. PROVIDE POWER/DATA POLE TYPE "B".
38. ¾" CONDUIT ROUTED IN SLAB.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**RECORD DRAWING**

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DATE: MARCH 1, 1999

CENTRAL LIBRARY EXPANSION
OSU STATE UNIVERSITY — CORVALLIS, OREGON

Drawing Title
PLAN
THIRD FLOOR
POWER AND SIGNAL

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

Revision:
- 1 ADDENDUM NO. 1 MARCH 29, 1996
- 3 ADDENDUM NO. 3 APRIL 5, 1996
- 10 10#30 NOV. 8, 1996
- 11 DOOR #213 DEC. 6, 1996
- 12 10#52 MARCH 10, 1997
- 13 10#135 NOV. 19, 1997
- 14 10#125 NOV. 21, 1997
- 15 10#150 FEB. 2, 1998
- RECORD SET MARCH 1, 1999

Date: NOV. 4, 1996
Job No.: 4005
Drawn by: DRG
Checked by: RAS

Drawing No.
E3.3

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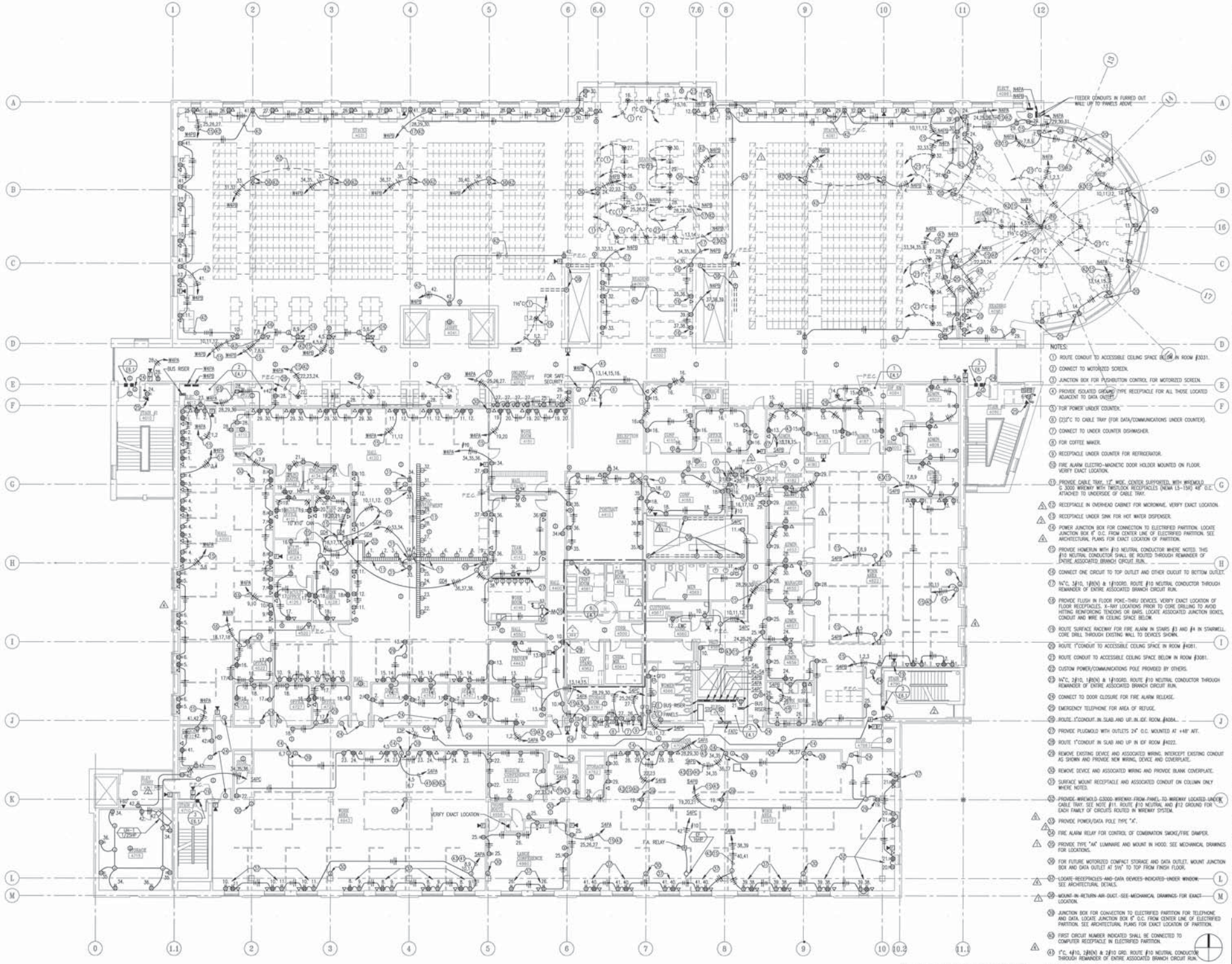

NOTES:

1. ROUTE CONDUIT TO ACCESSIBLE CEILING SPACE BELOW IN ROOM #3031.
2. CONNECT TO MOTORIZED SCREEN.
3. JUNCTION BOX FOR PUSHBUTTON CONTROL FOR MOTORIZED SCREEN.
4. PROVIDE ISOLATED GROUND TYPE RECEPTACLE FOR ALL THOSE LOCATED ADJACENT TO DATA OUTLET.
5. FOR POWER UNDER COUNTER.
6. (2)1"C TO CABLE TRAY (FOR DATA/COMMUNICATIONS UNDER COUNTER).
7. CONNECT TO UNDER COUNTER DISHWASHER.
8. FOR COFFEE MAKER.
9. RECEPTACLE UNDER COUNTER FOR REFRIGERATOR.
10. FIRE ALARM ELECTRO-MAGNETIC DOOR HOLDER MOUNTED ON FLOOR. VERIFY EXACT LOCATION.
11. PROVIDE CABLE TRAY, 12" WIDE, CENTER SUPPORTED, WITH WIREMOLD C 3000 WIREWAY WITH TWISTLOCK RECEPTACLES (NEMA L5-15R) 48" O.C. ATTACHED TO UNDERSIDE OF CABLE TRAY.
12. RECEPTACLE IN OVERHEAD CABINET FOR MICROWAVE. VERIFY EXACT LOCATION.
13. RECEPTACLE UNDER SINK FOR HOT WATER DISPENSER.
14. POWER JUNCTION BOX FOR CONNECTION TO ELECTRIFIED PARTITION. LOCATE JUNCTION BOX 6" O.C. FROM CENTER LINE OF ELECTRIFIED PARTITION. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF PARTITION.
15. PROVIDE HOMERUN WITH #10 NEUTRAL CONDUCTOR WHERE NOTED. THIS #10 NEUTRAL CONDUCTOR SHALL BE ROUTED THROUGH REMAINDER OF ENTIRE ASSOCIATED BRANCH CIRCUIT RUN.
16. CONNECT ONE CIRCUIT TO TOP OUTLET AND OTHER CIUCUIT TO BOTTOM OUTLET.
17. ¾"C, 3#10, 1#8(N) & 1#10GRD. ROUTE #10 NEUTRAL CONDUCTOR THROUGH REMAINDER OF ENTIRE ASSOCIATED BRANCH CIRCUIT RUN.
18. PROVIDE FLUSH IN FLOOR POKE-THRU DEVICES. VERIFY EXACT LOCATION OF FLOOR RECEPTACLES. X-RAY LOCATIONS PRIOR TO CORE DRILLING TO AVOID HITTING REINFORCING TENDONS OR RARS. LOCATE ASSOCIATED JUNCTION BOXES, CONDUIT AND WIRE IN CEILING SPACE BELOW.
19. ROUTE SURFACE RACEWAY FOR FIRE ALARM IN STAIRS #3 AND #4 IN STAIRWELL. CORE DRILL THROUGH EXISTING WALL TO DEVICES SHOWN.
20. ROUTE 1"CONDUIT TO ACCESSIBLE CEILING SPACE IN ROOM #4081.
21. ROUTE CONDUIT TO ACCESSIBLE CEILING SPACE BELOW IN ROOM #3081.
22. CUSTOM POWER/COMMUNICATIONS POLE PROVIDED BY OTHERS.
23. ¾"C, 2#10, 1#8(N) & 1#10GRD. ROUTE #10 NEUTRAL CONDUCTOR THROUGH REMAINDER OF ENTIRE ASSOCIATED BRANCH CIRCUIT RUN.
24. CONNECT TO DOOR CLOSURE FOR FIRE ALARM RELEASE.
25. EMERGENCY TELEPHONE FOR AREA OF REFUGE.
26. ROUTE 1"CONDUIT IN SLAB AND UP IN IDF ROOM #4084...
27. PROVIDE PLUGMOLD WITH OUTLETS 24" O.C. MOUNTED AT +48" AFF.
28. ROUTE 1"CONDUIT IN SLAB AND UP IN IDF ROOM #4022.
29. REMOVE EXISTING DEVICE AND ASSOCIATED WIRING. INTERCEPT EXISTING CONDUIT AS SHOWN AND PROVIDE NEW WIRING, DEVICE AND COVERPLATE.
30. REMOVE DEVICE AND ASSOCIATED WIRING AND PROVIDE BLANK COVERPLATE.
31. SURFACE MOUNT RECEPTACLE AND ASSOCIATED CONDUIT ON COLUMN ONLY WHERE NOTED.
32. PROVIDE WIREMOLD G3000 WIREWAY FROM PANEL TO WIREWAY LOCATED UNDER CABLE TRAY. SEE NOTE #11. ROUTE #10 NEUTRAL AND #12 GROUND FOR EACH FAMILY OF CIRCUITS ROUTED IN WIREWAY SYSTEM.
33. PROVIDE POWER/DATA POLE TYPE "A".
34. FIRE ALARM RELAY FOR CONTROL OF COMBINATION SMOKE/FIRE DAMPER.
35. PROVIDE TYPE "A4" LUMINAIRE AND MOUNT IN HOOD. SEE MECHANICAL DRAWINGS FOR LOCATIONS.
36. FOR FUTURE MOTORIZED COMPACT STORAGE AND DATA OUTLET. MOUNT JUNCTION BOX AND DATA OUTLET AT 59½" TO TOP FROM FINISH FLOOR.
37. LOCATE RECEPTACLES AND DATA DEVICES INDICATED UNDER WINDOW. SEE ARCHITECTURAL DETAILS.
38. MOUNT IN RETURN AIR DUCT. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.
39. JUNCTION BOX FOR CONNECTION TO ELECTRIFIED PARTITION FOR TELEPHONE AND DATA. LOCATE JUNCTION BOX 6" O.C. FROM CENTER LINE OF ELECTRIFIED PARTITION. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF PARTITION.
40. FIRST CIRCUIT NUMBER INDICATED SHALL BE CONNECTED TO COMPUTER RECEPTACLE IN ELECTRIFIED PARTITION.
41. 1"C, 4#10, 2#8(N) & 2#10 GRD. ROUTE #10 NEUTRAL CONDUCTOR THROUGH REMAINDER OF ENTIRE ASSOCIATED BRANCH CIRCUIT RUN.
42. ¾" CONDUIT ROUTE IN SLAB.
43. ALL HOMERUNS TO S4PA, S4PB, S4PC VIA 24"X24" CAN.

FEEDER CONDUITS IN FURRED OUT WALL UP TO PANELS ABOVE

BUS RISER

FOR SAFE SECURITY

VERIFY EXACT LOCATION

F.A. RELAY


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FAX: (503) 294-0272

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808 S.W. 3rd Avenue
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**RECORD DRAWING**

NOTE: Documents have been corrected as per data supplied by Contractor and Revision / Change Order Drawings. They do not necessarily show all existing conditions and may not be completely accurate. Field verify existing / hidden conditions prior to commencement of new work.

DATE: MARCH 1, 1999

# CENTRAL LIBRARY EXPANSION

OREGON STATE UNIVERSITY CORVALLIS OREGON

Drawing Title

PLAN
FOURTH FLOOR
POWER AND SIGNAL

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

Revision:

- ADDENDUM NO. 1 MARCH 29, 1996
- ADDENDUM NO. 3 APRIL 5, 1996
- RI #30 NOVEMBER 8, 1996
- RI #34 MARCH 31, 1997
- RI #65 AUGUST 12, 1997
- RI #155 MARCH 2, 1998
- RECORD SET MARCH 1, 1999

Date: NOV. 4, 1998
Job No.: 9505
Drawn by: DRB
Checked by: RAS

Drawing No.

E3.4


11:52 01/05/99 • proj: 0764500 • file: DSULE34 • attachments: 7076452 2010J74 • by: KW • <<HALF SCALE>>

NUMBER

0036-0295-009

DRAWING NUMBER

DRAWING NUMBER

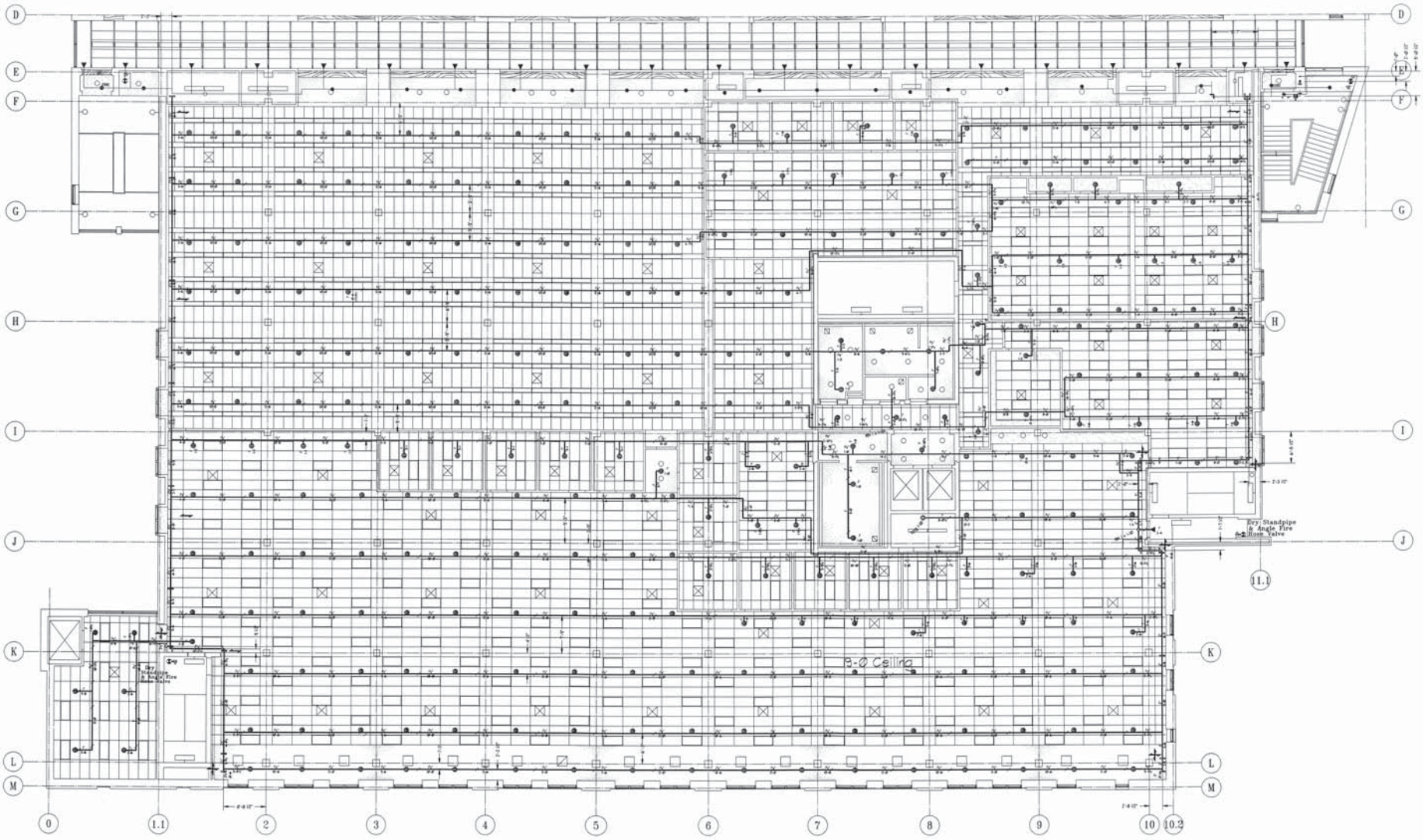
DRAWING NUMBER

DRAWING

Hanger ATR Lengths:
1½" - 2-3½
2½" - 2-3
3" - 2-2½

All Piping 3" and smaller
must be Sch. 40 (Flanged or Threaded)

All Drops are: Ø-4½ CUT
U.O.N.




All Mains and Lines
@ 9'-7"
℄ to AFF

3rd FLR. RENOVATION
SCALE 1/8" = 1'-0"

NORTH

RECORD DRAWINGS AS REPORTED
Documents have been revised based solely on Record Working Drawings supplied by the Contractor and the Contract Documents. They do not necessarily show all existing conditions and may not be accurate at all locations. Field verify existing and/or hidden conditions prior to commencement of new work.
03/01/1999

3rd FLOOR RENOVATION

OWNER: Oregon State U. / Dept. Facilities Services
ARCHITECT: SRG Partnership, P.C.
ENGINEER: CBG Mechanical Engineers
CONTRACTOR: Hoffman Construction Company

| REVISIONS | | |
|---|---|---|
| NO. | DESCRIPTION | DATE |
| 1. | Final Fire Marshal Submittal | 11/5/98 |
| 2. | Sidewall heads placed in Avenue | 3/20/97 |
| 3. | 3rd Floor Changes (@ #52) | 6/9/97 |
| 4. | as per 3rd Flr Ext. Coordination Meeting | 10/21/97 |

SPRINKLER LEGEND — DEVICE MFG. RELIABLE

| SYMBOL | DESCRIPTION | ORIF. | THD. | TEMP. | FINISH | QUAN. |
|---|---|---|---|---|---|---|
| ● | Model G Recessed Pendent | ½" | ½" | 165 | Chrome | 276 |
| ○ | Model G Upright | ½" | ½" | 212 | Chrome | 3 |
| ◀ | Model G3 Dry Horiz. Sidewall | ½" | ½" | 212 | Chrome | 1 |

| SYMBOL | DESCRIPTION | ORIF. | THD. | TEMP. | FINISH | QUAN. |
|---|---|---|---|---|---|---|

RESPONSIBLE MANAGING EMPLOYEE
TOM FAIRBANK
NAME
SIGNATURE
03678
REG. NO. DATE
STATE OF OREGON LICENSE NO.

| | |
|---|---|
| APPROVAL: | City of Corvallis |
| | CBG, SRG |
| CONTRACT NO.: | 9609 |
| SPRK. ON SHEET: | 276 |
| SPRK. ON JOB: | |
| DRAWN BY: | Daniel T. Pun |
| SCALE: | 1/8" = 1'-0" |
| DATE: | 10/21/98 |

Western States Fire Protection Company
13896 FIR ST. #B OREGON CITY, OREGON 97045
WESTERN STATES FIRE PROTECTION COMPANY OFFICES LOCATED ALBUQUERQUE / AUSTIN / DALLAS / DENVER / DENVER / DULUTH / HOUSTON KANSAS CITY / MINNEAPOLIS / RAPID CITY / ST. LOUIS / SEATTLE
Phone: (503) 657-5155 Fax: (503) 657-5182

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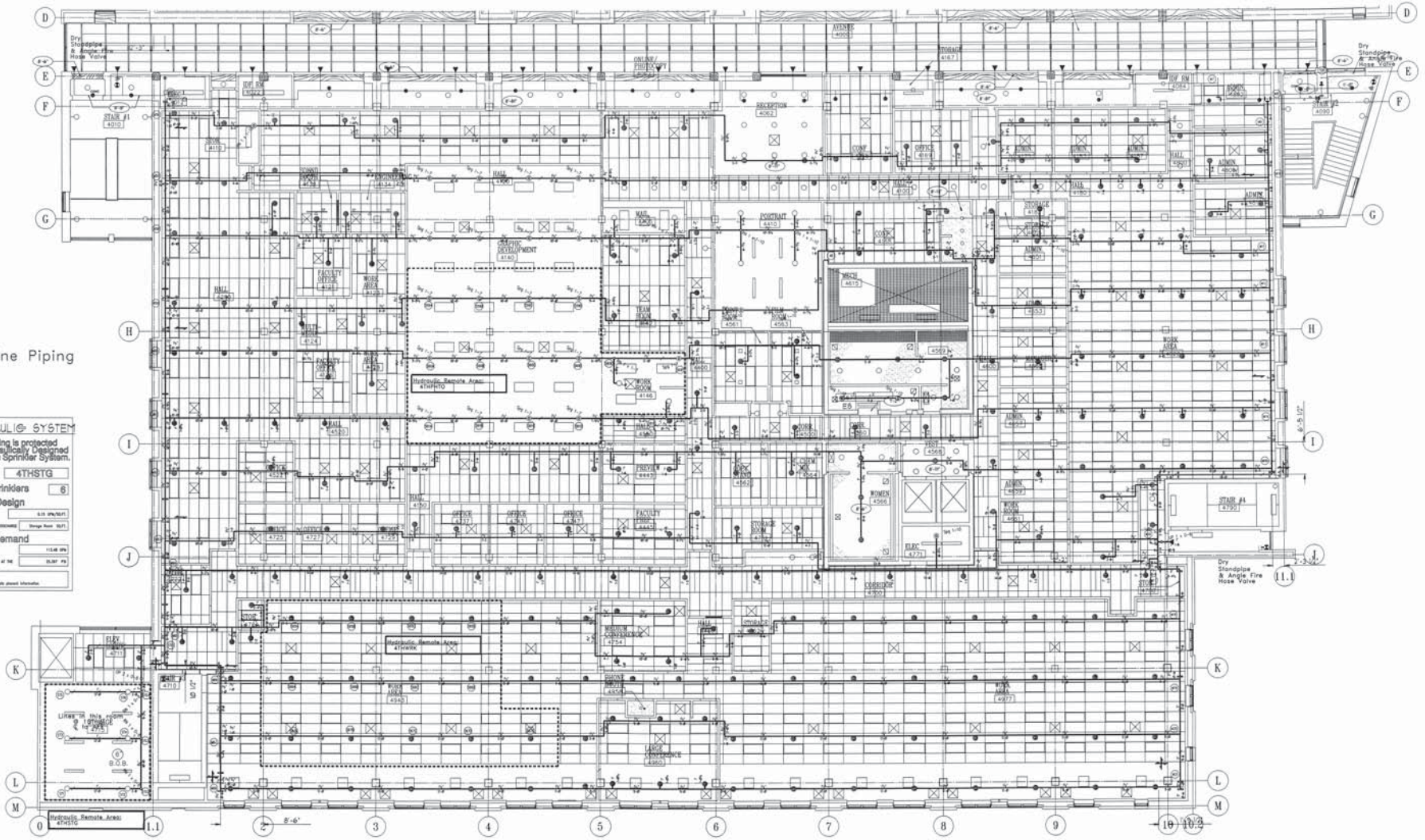
CORVALLIS, OREGON 97331-4610

SHEET 18 OF 11

NUMBER | 0036-0295-010 | DRAWING NUMBER | DRAWING NUMBER | DRAWING NUMBER | DRAWING




All Main and Line Piping to be @ 9'-7" ℄ to AFF

HYDRAULIC SYSTEM

This building is protected by a Hydraulically Designed Automatic Sprinkler System.

Location 4THSTG

No. of Sprinklers 6

Basis of Design

1. DENSITY 0.15 GPM/SQ.FT.

2. DESIGNED AREA OF DISCHARGE Storage Room 1501 SQ.FT.

System Demand

1. GPM DISCHARGED 113.48 GPM

2. RESIDUAL PRESSURE AT THE BASE OF THE RISER 35.397 PSI

Hydraulic data placard information

All Piping 3" and smaller must be Sch. 40 (Flanged or Threaded)

All Drops are: Ø-4½ CUT U.O.N.

Hanger ATR Lengths:
1½" - 2-3½
2½" - 2-3
3" - 2-2½

RECORD DRAWINGS AS REPORTED
Documents have been revised based solely on Record Working Drawings supplied by the Contractor and the Contract Documents. They do not necessarily show all existing conditions and may not be accurate at all locations. Field verify existing and/or hidden conditions prior to commencement of new work.
03/01/1999

4th FLR. RENOVATION
SCALE 1/8" = 1'-0"

NORTH

OWNER: Oregon State U. / Dept. Facilities Services
ARCHITECT: SRG Partnership P.C.
ENGINEER: CBG Mechanical Engineers
CONTRACTOR: Hoffman Construction Company

4th FLOOR RENOVATION

| REVISIONS | | |
|---|---|---|
| NO. | DESCRIPTION | DATE |
| 1. | Final Fire Marshal Submittal | 11/3/98 |
| 2. | Wall changes on the 4th Flr. Existing | 5/11/97 |
| 3. | Coordination with Hoffcin Sheet Metal | 2/23/98 |
| 4. | Wall changes on 4th Flr. Existing (@ #155) | 3/3/98 |
| 5. | Coordination with Hoffcin Sheet Metal | 4/24/98 |

| SPRINKLER LEGEND | | | | | | | | DEVICE MFG. RELIABLE | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SYMBOL | DESCRIPTION | ORIF. | THD. | TEMP. | FINISH | QUAN. | SYMBOL | DESCRIPTION | ORIF. | THD. | TEMP. | FINISH | QUAN. |
| ● | Model G Recessed Pendent | 1/2" | 1/2" | 165 | Chrome | 261 | | | | | | | |
| ○ | Model G Upright | 1/2" | 1/2" | 212 | Brass | 41 | | | | | | | |
| ◀ | Model G3 Dry Horiz. Sidewall | 1/2" | 1" | 212 | Brass | 1 | | | | | | | |

RESPONSIBLE MANAGING EMPLOYEE
TOM FARMER
NAME
SIGNATURE
0305
FIRE NO. DATE
STATE OF OREGON LICENSE NO.

| | |
|---|---|
| APPROVAL: | City of Corvallis, CBG, SRG |
| CONTRACT NO.: | 15025 |
| SPRK. ON SHEET: | 249 |
| SPRK. ON JOB: | |
| DRAWN BY: | Darrell T. Flatt |
| SCALE: | 1/8" = 1'-0" |
| DATE: | 10-23-98 |

Western States Fire Protection Company
13896 FIR ST. #8 OREGON CITY, OREGON 97045
Phone: (503) 657-5105 Fax: (503) 657-5182

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SHEET 6 OF 11