

March 11, 2022

SOLICITATION ADDENDUM NO. 1 ITB 21-0016 Summit Building- Tenant Improvements- General Contractor

THE FOLLOWING CHANGES/ADDITIONS TO THE ABOVE CITED SOLICITATION ARE ANNOUNCED:

This Addendum modifies the Invitation to Bid (ITB) document(s) only to the extent indicated herein. Allother areas not changed or otherwise modified by this Addendum shall remain in full force and effect. This Addendum is hereby made an integral part of the ITB document. Bidder must be responsive to any requirements of this Addendum as if the requirements were set forth in the ITB. Failure to do so may result in Bid rejection. See the ITB regarding requests for clarification or change and protests of this Addendum, and the deadlines for the foregoing.

This addendum is to be acknowledged in the space provided on the Bidder Certification form supplied in the solicitation document. Failure to acknowledge receipt of this addendum may be cause to reject your offer.

The closing date IS CHANGING: March 24, 2022 at 2:00 PM Pacific Time

CLARIFICATIONS/QUESTIONS The closing date has Changed to March 24, 2022 at 2:00 PM Pacific Time

Please see the amended Project Drawings and Specifications attached.

- QUESTION:What is the estimated value of this project?ANSWER:The estimated value is \$3M.QUESTION:There are some specification sections missing from the project manual: Section 004322, 004323, 012100, 012200,
084313, 099723 and 122113. I am unsure if these were left out by mistake, or if they were meant to be removed
from the table of contents.ANSWER:Please refer to HBX and KCL's narrative attached.QUESTION:Could you briefly summarize the concrete sawcutting/demo scope on this project?
- ANSWER: Please refer to HBX's narrative below.

SUBSTITUTION REQUESTS:

Approved: Alfrex FR Metal Composite Material

Denied: Air-Shield SMO



MAR 11TH 2022

PROJECT | BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE SUMMIT BUILDING 1260 NW WATERHOUSE AVE., BEAVERTON, OR 97006

BIDDING ADDENDUM 1

REVISION 1 - DATED 3/11/22

This addendum is issued to modify, clarify, or amend the original Project Drawings and Specifications and is hereby made part of the Contract Documents. The Contractor shall be responsible for incorporating items in this Addendum to the Work. The following shall take precedence over anything to the contrary in the Drawings or Specifications.

QUESTIONS/CLARIFICATIONS: The below items are in response to additional information or clarifications within the Contract documents. Provide the below scope or clarification within your base bid.

 SIGNAGE AT RECEPTION -1/A651. Logo and letter to reflect the district's 'B' logo and lettering saying "Beaverton School District" to be routed out of the finished wood panels by the General Contractor as part of the wall paneling scope. Interiors of letters, e.g. the inside of the "B" to be mounted on a painted MDF backer board flush with the french cleat mounting cavity. Align all joints in the backer material to be fully concealed.

The district will provide a vector graphics file of the logo and lettering. Final location to and sizing to be coordinated through wall panel shop drawing review. Routing/Laser cutting and installation by the General Contractor. Approximate area of signage/lettering for routing is $7'-0'' \times 1'-6''$ tall.



2. SIGNAGE AT BOARD ROOM -2/A651. Lettering to be in maple finish to match other maple veneer within the project with finished edges. Dimensional letter to sit proud of the wall by $\frac{1}{2}$ " on stems.

The district will provide a vector graphics file of the lettering. Assuming 8" tall lettering for bidding purposes. Final coordination and review to be provided via shop drawings for Architect's review.

- 3. WOOD PANELING RETURN -5/A651. Scribe termination of wood paneling at both edges at reception against adjacent surfaces. Terminate perpendicularly at the north edge and at an angle to the mailroom wall on the southside.
- 4. SAWCUTTING & DEMOLITION SCOPE AD101. Demolition work is generally shown on architectural demolition plans for the removal of walls, doors and other elements. Additional scope may be required to install new finishes or mechanical, electrical, or plumbing elements. Bidders should review these elements within sub trade documents to provide a complete demolition scope to support all new scope elements.

Saw Cutting or chipping is anticipated within the ground floor Coffee Bar (Room 108) to support reconfiguration of plumbing within this area to connect to an existing sanctuary drain. Additionally, floor cores within the ground floor reception area and within the board room and adjacent conference room for electrical and low voltage will be required.

Additional sawcutting and demolition may be required to support installation of a new flagpole and footing within the parking lot. See G102.

Removal of exterior brick is required to install new ventilation louvers, see A700.

Additional floor preparation is required to support new floor finishes, especially in areas for polished or sealed concrete. Review finish floor plans and these specification sections.

SPECIFICATION REVISIONS: The below are revisions to the project specifications:

1. 00 01 10 - TABLE OF CONTENTS - Remove the below sections from the table of contents. They were included within the project table of contents and are not applicable to this project.





- a. 00 43 33 Unit Prices Form
- b. 00 43 23 Alternates Form
- c. 01 21 00 Allowances
- d. 01 22 00 Unit Prices
- e. 01 23 00 Alternates
- f. 08 43 13 Aluminum Framed Storefronts
- g. 09 97 23 Concrete and Masonry Coatings
- h. 10 26 00 Wall & Door Protection
- i. 12 21 13 Horizontal Louver Blinds

Add the following section to the table of contents. It is included within the project manual already, but mistakenly omitted from the table of contents.

- a. 23 05 93 Testing, Adjusting, and Balancing for HVAC
- 2. 09 91 23 INTERIOR PAINTING (2.03.A.3.b) Change sheen for interior surfaces to align with table on Sheet A650. Include the below information within this section for sheen to specify the following instead of a blanket semi-gloss finish.
 - a. Interior Gypsum Board Partitions: Eggshell
 - b. Gypsum Board Ceilings: Flat (REV1)
 - c. Doors, Trim Woodwork: Semi-Gloss (REV1)
- 3. 10 26 00 WALL & DOOR PROTECTION Remove this section from the project manual. It contained corner guards product information, which are not required within the project at this time.





300 4th Street West Des Moines, IA 50265 515.724.7938

312 NW 10th Ave., Suite 100 Portland, OR 97209 503.212.4612

4014 N. Goldwater Blvd., Suite 203 Scottsdale, AZ 85251 480.666.0767

296 E. 5th Ave., Suite 501 Eugene, OR 97401 541.729.7645

CONSULTING ENGINEERS

Mechanical Electrical

Plumbing

- Lighting
- Technology

Summit Central Office Remodel – Beaverton School District Addendum 1 March 11, 2022

This addendum is issued to modify, clarify, or amend the original Project Drawings and Specifications and is hereby made part of the Contract Documents. The Contractor shall be responsible for incorporating items in this Addendum to the Work. The following shall take precedence over anything to the contrary in the Drawings or Specifications.

Mechanical Specifications:

- 1. Section [000110] Table of Contents:
 - a. MODIFY table of contents 2.17 Division 23 to include: 230593 TESTING, ADJUSTING, AND BALANCING FOR HVAC

Electrical Drawings:

- 1. Drawing ED101 ELECTRICAL DEMOLITION LEVEL 1:
 - a. **MODIFY** existing lighting control at office suite for room Waiting 111, remove and relocate.
- 2. Drawing E101 ELECTRICAL LIGHTING PLAN LEVEL 1:
 - a. **MODIFY** existing lighting control for office suite, show relocated relay/override switch controls.
 - b. **MODIFY** existing lighting control for Waiting 111, show new circuiting requirements and occupancy sensor controls.
- 3. Drawing E301 ELECTRICAL SCHEDULES:
 - a. **MODIFY** approved equals column to include manufacturer and series for select fixtures.

Technology Drawings:

- Drawing T201 TECHNOLOGY COMMUNICATIONS CEILING PLAN LEVEL 1: a. Open Office 113
 - i. **MODIFY** the location of the southern most wireless access point. Relocate the cabling and termination to room Waiting 111.
- Drawing T301 TECHNOLOGY LIFE SAFETY & SECURITY PLAN LEVEL 1:
 b. Camera schedule
 - i. **MODIFY** CAM-1 model number in the schedule to be PNM-9085RQZ.
 - ii. **MODIFY** CAM-2 model number in the schedule to be PNM-9085RQZ.



- iii. **MODIFY** CAM-3 model number in the schedule to be PNM-9085RQZ.
- iv. **MODIFY** CAM-4 model number in the schedule to be PNM-9085RQZ.
- v. **MODIFY** CAM-5 model number in the schedule to be PNM-9085RQZ.
- vi. **MODIFY** CAM-6 model number in the schedule to be PNM-9085RQZ.
- 3. Drawing T501 TECHNOLOGY DETAILS
 - c. General Notes
 - i. **MODIFY** General Note C. to read: "Labeling scheme for both patch panels and work area outlets shall follow the Beaverton Community School District Scheme. Demarcation Room shall be Frame 0, Frame Room 225 shall be Frame 1 and Frame 332 shall be Frame 2.
 - d. Rack Diagrams Frame Room 225
 - i. **ADD** two (2) vertical power distribution units housing 24 NEMA 5-20R plugs. Install one between each rack. Provide device equal to APC model #AP8830.
 - e. Rack Diagrams Frame Room 332
 - i. **ADD** one (1) 4-Post Rack to this room and label it "IDF.3". Rack shall be positioned similarly to what is illustrated in Frame Room 225.
 - ii. ADD two (2) vertical power distribution units housing 24 NEMA 5-20R plugs. Install one between each rack. Provide device equal to APC model #AP8830.
- 4. Drawing AV301 AV Electrical Plan Level 1
 - a. General notes
 - i. **DELETE** elevation call outs for room where PAC boxes were removed.
- 5. Drawing AV302 AV Electrical Plan Level 2
 - a. General notes
 - i. **DELETE** elevation call outs for room where PAC boxes were removed.
- 6. Drawing AV303 AV Electrical Plan Level 3
 - a. General notes
 - i. **DELETE** elevation call outs for room where PAC boxes were removed.

End of Addendum.

SECTION 000110

TABLE OF CONTENTS

PROCUREMENT AND CONTRACTING REQUIREMENTS

1.01 DIVISION 00 -- PROCUREMENT AND CONTRACTING REQUIREMENTS

- A 000101 Project Title Page
- B 000110 Table of Contents
- C 004322 Unit Prices Form REV1
- D 004323 Alternates Form REV1
- E 005000 Contracting Forms and Supplements

SPECIFICATIONS

2.01 DIVISION 01 -- GENERAL REQUIREMENTS

- A 011000 Summary
- B 012000 Price and Payment Procedures
- C 012100 Allowances REV1
- D 012200 Unit Prices REV1
- E 012300 Alternates REV1
- F 012500 Substitution Procedures
- G 013000 Administrative Requirements
- H 013553 Security Procedures
- I 014000 Quality Requirements
- J 014100 Regulatory Requirements
- K 015000 Temporary Facilities and Controls
- L 016000 Product Requirements
- M 017000 Execution and Closeout Requirements
- N 017419 Construction Waste Management and Disposal
- O 017800 Closeout Submittals

2.02 DIVISION 02 -- EXISTING CONDITIONS

- A 024100 Demolition
- 2.03 DIVISION 03 -- CONCRETE
 - A 033511 Concrete Floor Finishes
- 2.04 DIVISION 04 -- MASONRY
- 2.05 DIVISION 05 -- METALS

2.06 DIVISION 06 -- WOOD, PLASTICS, AND COMPOSITES

- A 061000 Rough Carpentry
- B 062000 Finish Carpentry
- C 064100 Architectural Wood Casework
- D 064200 Wood Paneling

2.07 DIVISION 07 -- THERMAL AND MOISTURE PROTECTION

- A 072700 Air Barriers
- B 075400 Thermoplastic Membrane Roofing
- C 076200 Sheet Metal Flashing and Trim
- D 079200 Joint Sealants

2.08 DIVISION 08 -- OPENINGS

- A 081213 Hollow Metal Frames
- B 081416 Flush Wood Doors
- C 083200 Sliding Glass Doors
- D 084313 Aluminum-Framed Storefronts REV 1
- E 087100 Door Hardware
- F 089100 Louvers

2.09 DIVISION 09 -- FINISHES

- A 090561 Common Work Results for Flooring Preparation
- B 092116 Gypsum Board Assemblies
- C 092216 Non-Structural Metal Framing
- D 093000 Tiling
- E 095100 Acoustical Ceilings
- F 096500 Resilient Flooring
- G 096813 Tile Carpeting
- H 099123 Interior Painting
- I 099300 Staining and Transparent Finishing
- J 099723 Concrete and Masonry Coatings REV 1

2.10 DIVISION 10 -- SPECIALTIES

- A 102600 Wall and Door Protection REV 1
- B 107500 Flagpoles
- 2.11 DIVISION 11 -- EQUIPMENT

2.12 DIVISION 12 -- FURNISHINGS

- A 122113 Horizontal Louver Blinds REV 1
- B 123600 Countertops
- 2.13 DIVISION 13 -- SPECIAL CONSTRUCTION

2.14 DIVISION 14 -- CONVEYING EQUIPMENT

2.15 DIVISION 21 -- FIRE SUPPRESSION

- A 210500 Common Work Results for Fire Suppression
- B 210548 Vibration and Seismic Controls for Fire Suppression Piping and Equipment
- C 210554 Identification for Fire Suppression Piping and Equipment
- D 211300 Fire Suppression Sprinkler Systems

2.16 DIVISION 22 -- PLUMBING

- A 220513 Common Motor Requiremeths for Plumbing Equipment
- B 220517 Sleeves and Slleve Seals for Plumbing Equipment
- C 220529 Hangers and Supprots for Plumbing Piping and Equipment
- D 220548 Vibration and Seismic Controls for Plumbing Piping and Equipment
- E 220553 Identification for Plumbing Piping and Equipment
- F 221005 Plumbing Piping
- G 221006 Plubing Piping Specialties
- H 2240 00 Plumbing Fixtures

2.17 DIVISION 23 -- HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)

- A 230513 Common Motor Requirements for HVAC Equipment
- B 230529 Hangers and Supports for HVAC Piping and Equipment
- C 230548 Vibration and Seismic Controls for HVAC
- D 230553 Identification for HVAC Piping and Equipment
- E 240593 Testing, Adjusting and Balancing for HVAC (REV 1)
- F 230713 Duct Insulation
- G 230913 Instrumentation and Control Devices for HVAC
- H 230923 Direct-Digital Control Systems for HVAC
- I 233100 HVAC Ducts and Casings
- J 233300 Air Duct Accessories
- K 233423 HVAC Power Ventilators
- L 233600 Air Terminal Units
- M 233700 Air Outlets and Inlets
- N 237223 Packaged Air-to-Air Energy Recovery Units
- O 233126.13 Small Capacity Split-System Air Conditioners

2.18 DIVISION 25 -- INTEGRATED AUTOMATION

2.19 DIVISION 26 -- ELECTRICAL

- A 260500 Common Work Results for Electrical
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- D 260526 Grounding and Bonding for Electrical Systems
- E 2605 29 Hangers and Supports for Electrical Systems
- F 260533.13 Conduit for Electrical Systems
- G 260533.16 Boxes for Electrical Systems
- H 260553 Identification for Electrical Systems
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- J 262726 Wiring Devices
- K 261816.16 Enclosed Switches
- L 265553 Static Uninteruptible Power Supply
- M 265100 Interior Lighting

2.20 DIVISION 27 -- COMMUNICATIONS

- A 270000 General Requirements for Communications Systems
- B 270505 Selective Demolition of Communications Systems
- C 270526 Grounding and Bonding for Communications Systems
- D 270528 Pathways for Communications Systems
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2.21 DIVISION 28 -- ELECTRONIC SAFETY AND SECURITY

- A 280000 General Requirements for Electronic Safety & Security Systems
- B 280505 Selective Demolition of Electronic Safety and Security Systems
- C 281300 Security Management System
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- F 283101 Intrusion Detection
- G 284600 Digital, Addressable Fire Alarm System
- 2.22 DIVISION 31 -- EARTHWORK

2.23 DIVISION 32 -- EXTERIOR IMPROVEMENTS

- A 321623 Sidewalks
- B 321723 Pavement Markings
- 2.24 DIVISION 33 -- UTILITIES
- 2.25 DIVISION 34 -- TRANSPORTATION
- 2.26 DIVISION 40 -- PROCESS INTEGRATION
- 2.27 DIVISION 46 -- WATER AND WASTEWATER EQUIPMENT
- **END OF SECTION**

SECTION 099123 INTERIOR PAINTING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A Surface preparation.
- B Field application of paints.
- C Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.
- D Do Not Paint or Finish the Following Items:
 - 1. Items factory-finished unless otherwise indicated; materials and products having factoryapplied primers are not considered factory finished.
 - 2. Items indicated to receive other finishes.
 - 3. Items indicated to remain unfinished.
 - 4. Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment.
 - 5. Floors, unless specifically indicated.
 - 6. Glass.
 - 7. Concealed pipes, ducts, and conduits.

1.02 REFERENCE STANDARDS

- A 40 CFR 59, Subpart D National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency current edition.
- B MPI (APSM) Master Painters Institute Architectural Painting Specification Manual Current Edition.
- C SSPC-SP 1 Solvent Cleaning 2015, with Editorial Revision (2016).
- D SSPC-SP 6 Commercial Blast Cleaning 2007.

1.03 SUBMITTALS

- A See Section 013000 Administrative Requirements, for submittal procedures.
- B Product Data: Provide complete list of products to be used, with the following information for each:
 - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g., "alkyd enamel").
 - 2. MPI product number (e.g., MPI #47).
 - 3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
- C Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified.
 - 1. Where sheen is specified, submit samples in only that sheen.
 - 2. Where sheen is not specified, discuss sheen options with Architect before preparing samples, to eliminate sheens not required.
 - 3. Allow 30 days for approval process, after receipt of complete samples by Architect.
- Maintenance Data: Submit data including finish schedule showing where each product/color/finish was used, product technical data sheets, material safety data sheets (MSDS), care and cleaning instructions, touch-up procedures, repair of painted and finished surfaces, and color samples of each color and finish used.
- E Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 016000 Product Requirements, for additional provisions.
 - 2. Extra Paint and Finish Materials: 1 gallon (4 L) of each color; from the same product run, store where directed.
 - 3. Label each container with color in addition to the manufacturer's label.

1.04 DELIVERY, STORAGE, AND HANDLING

- A Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.

1.05 FIELD CONDITIONS

- A Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C Provide lighting level of 80 ft candles (860 lx) measured mid-height at substrate surface.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A Provide paints and finishes from the same manufacturer to the greatest extent possible.
 - 1. If a single manufacturer cannot provide specified products; minor exceptions will be permitted provided approval by Architect is obtained using the specified procedures for substitutions.
- B Paints:

С

- 1. Rodda Paint Co: www.roddapaint.com/#sle.
- 2. Sherwin-Williams Company: www.sherwin-williams.com/#sle.
- 3. Miller Paint: www.millerpaint.com
- 4. Kelly Moore: www.kellymoore.com
- 5. As Approved by BSD Respresentative
- Primer Sealers: Same manufacturer as top coats.

2.02 PAINTS AND FINISHES - GENERAL

- A Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint.
 - 1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
 - 2. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.
 - 3. Supply each paint material in quantity required to complete entire project's work from a single production run.
 - 4. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.
- B Volatile Organic Compound (VOC) Content:
 - 1. Provide paints and finishes that comply with the most stringent requirements specified in the following:
 - a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
 - b. Ozone Transport Commission (OTC) Model Rule, Architectural, Industrial, and Maintenance Coatings; www.otcair.org; specifically:
 - 1) Opaque, Flat: 50 g/L, maximum.
 - 2) Opaque, Nonflat: 150 g/L, maximum.
 - 3) Opaque, High Gloss: 250 g/L, maximum.
 - c. Architectural coatings VOC limits of the State in which the Project is located.

2.

21019

at project site; or other method acceptable to authorities having jurisdiction.

2.03 PAINT SYSTEMS - INTERIOR

- A Paint I-OP Interior Surfaces to be Painted, Unless Otherwise Indicated: Including gypsum board, concrete, concrete masonry units, brick, wood, plaster, uncoated steel, shop primed steel, galvanized steel, aluminum, and acoustical ceilings.
 - 1. Two top coats and one coat primer.
 - 2. Primer Coat: PVA
 - 3. Top Coat(s): Institutional Low Odor/VOC Interior Latex; MPI #143, 144, 145, 146, 147, or 148.
 - a. Products:
 - 1) Basis of Design: Rodda Paint, Unique II.
 - b. Sheen:
 - 1) Interior Gypsum Board Partitions: Eggshell (REV1)
 - 2) Gypsum Board Ceilings: Flat (REV1)
 - 3) <u>Doors, Trim & Woodwork: Semi-Gloss (REV1)</u>
- B Paint I-OP-MD-DT Medium Duty Door/Trim: For surfaces subject to frequent contact by occupants, including metals and wood:
 - 1. Two top coats
 - 2. Top Coat(s): Interior Light Industrial Coating, Water Based; MPI #151, 153 or 154.
 - a. Products:
 - Basis of Design: Rodda Multi Master DTM Acrylic Semi-Gloss Enamel, 548901. (MPI #153)

PART 3 EXECUTION

3.01 PREPARATION

- A Clean surfaces thoroughly and correct defects prior to application.
- B Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.
- D Seal surfaces that might cause bleed through or staining of topcoat.
- E Concrete:
- F Masonry:
- G Gypsum Board: Fill minor defects with filler compound. Spot prime defects after repair.
- H Plaster: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.
- I Aluminum: Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
- J Galvanized Surfaces:
- K Ferrous Metal:
 - 1. Solvent clean according to SSPC-SP 1.
 - 2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
 - 3. Remove rust, loose mill scale, and other foreign substances using using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning". Protect from corrosion until coated.
- L Wood Surfaces to Receive Opaque Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried;

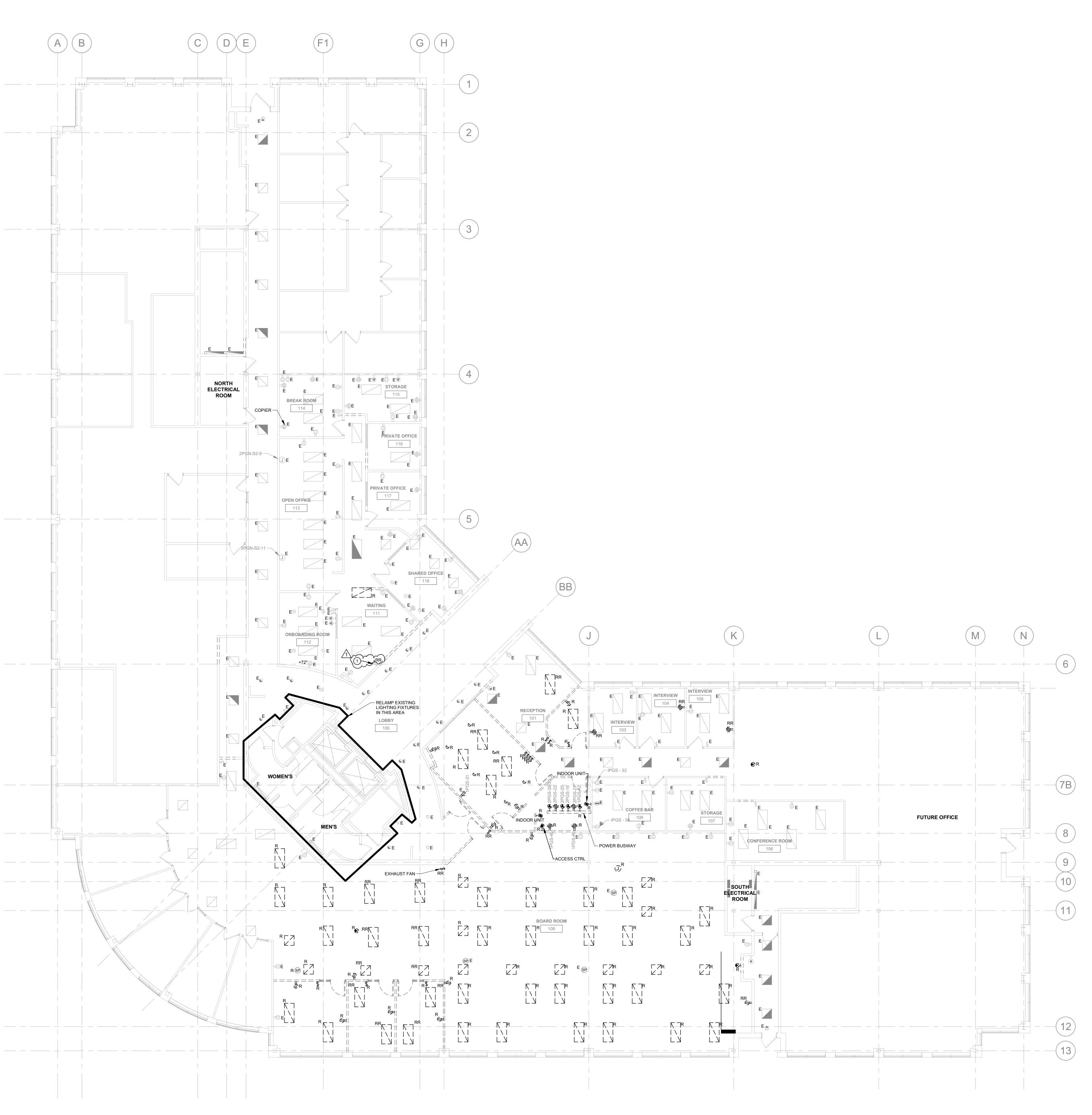
BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

sand between coats. Back prime concealed surfaces before installation.

3.02 APPLICATION

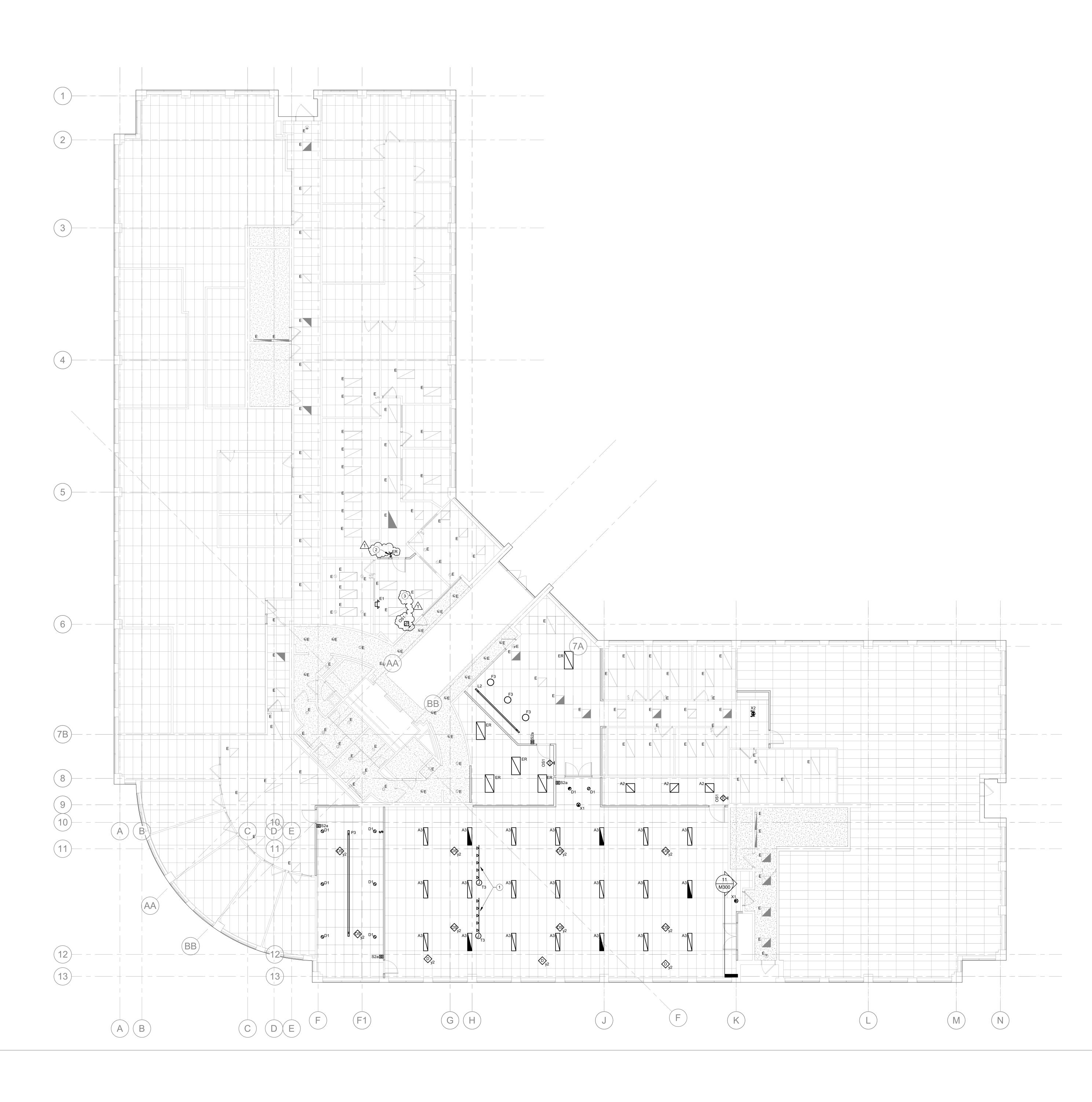
- A Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
- B Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- C Apply each coat to uniform appearance in thicknesses specified by manufacturer.
- D Sand wood and metal surfaces lightly between coats to achieve required finish.
- E Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- F Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

END OF SECTION



ELECTRICAL DEMOLITION PLAN - LEVEL 1 1/8" = 1'-0"

| <u>ELEC</u> A. | CTRICAL DEMOLITION NOTES DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN DEPRESENTATION OF ACCESSORIES AND INCIDENTALIS TO BE | HBX |
|-------------------|---|---|
| | REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND EXISTING CONDITIONS, PRIOR TO THE SUBMITTING OF A BID FOR THIS PROJECT. | HBx STUDIO WWW.HBX-STUDIO.COM COPYRIGHT 2019 |
| В. С. | | COSTERED PROFESSION |
| | CONDITIONS HAS BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH DO NOT SHOW, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS. | TO THE LOS MAN |
| D. | CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND REMOVALS. WIRING SHALL BE REMOVED. ALL WIRING FOR THE REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED | EXPIRES: 6/30/2023 REVISIONS: 1 REVISION 1 3/11/22 |
| E. | AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE IMMEDIATE DEMOLITION AREA SHALL BE MAINTAINED. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY | |
| | THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND | ΙΛΟΙ |
| F. | DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE. PANELBOARDS, DISCONNECTS, FIXTURES, WIRING DEVICES, SIGNAL DEVICES, ETC., SHOWN ON PLANS SHALL BE REMOVED | KCL |
| 0 | UNLESS NOTED OTHERWISE. REMOVAL SHALL BE DONE IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION WORK. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS. | 312 NW 10th Ave Suite 100 Portland, OR 97209 |
| G. | EXISTING FURNITURE JUNCTION BOXES AT WINDOWS: REMOVE EXPOSED SURFACE RACEWAY BACK TO SOURCE JUNCTION BOX AND PROVIDE BLANK COVER AT EXISTING FLUSH JUNCTION BOX. PREPARE FOR EXTENSION TO NEW MODULAR FURNITURE LOCATIONS PER PLANS. | |
| H. | WHERE EXISTING LIGHTING IS BEING REMOVED, MAINTAIN EXISTING BRANCH CIRCUITING IN THE ROOM OR AREA TO REFEED RELOCATED OR NEW FIXTURES PER PLAN. FIELD TRACE AND IDENTIFY BRANCH CIRCUIT AND SWITCHLEGS AND PREPARE FOR RECONNECTION. REFER TO LIGHTING PLANS FOR ADDITIONAL REQUIREMENTS. | |
| I. | ABBREVIATIONS: E - EXISTING ITEM TO REMAIN ER - NEW LOCATION OF EXISTING ITEM N - NEW ITEM IN EXISTING LOCATION R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER RN - REPLACE EXISTING WITH NEW RR - EXISTING ITEM TO BE REMOVED AND RELOCATED | |
| | EXISTING OVERRIDE AND RELAY CONTROL FOR EXISTING OFFICE SUITE. REMOVE AND RELOCATE. SEE LIGHTING PLAN SHEET E101 FOR ADDITIONAL REQUIREMENTS. | REMODEL |
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| | | SUMMIT |
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| | | 97006 N |
| | | TON, OREGO |
| | | : AVE BEAVEF |
| | | SUMMIT BUILDING 1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006 PERMIT DOCUMENTATION |
| | | |
| | | PROJECT: 21019 DATE: 02.18.2022 |
| | | ELECTRICAL DEMOLITION - LEVEL 1 ED101 |
| | | |



1 <u>LIGHTING PLAN - LEVEL 1</u> 1/8" = 1'-0"

LIGHTING GENERAL NOTES A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY HBx STUDIO COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, WWW.HBX-STUDIO.COM LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, COPYRIGHT 2019 MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. DED PROFE B. RELOCATED AND NEW FIXTURES SHALL UTILIZE THE EXISTING BRANCH CIRCUIT PREVIOUSLY FEEDING THE AREA WHERE LIGHTING IS REMOVED. 31NER AREAS WITH OCCUPANCY SENSOR CONTROLS SHALL BE CONNECTED 94252 DIRECTLY TO THE LIGHTING BRANCH CIRCUIT CONSTANT HOT. AREAS WHICH ARE IN COMMON AREAS WITHOUT OCCUPANCY SENSOR CONTROL SHALL BE CONNECTED TO THE EXISTING TIMED-OFF COMMON AREA OREGON SWITCHLEG. FIELD TRACE AND IDENTIFY BRANCH CIRCUIT AND a SWITCHLEGS AFFECTING EACH AREA OF WORK AND EXTEND EXISTING LIGHTING BRANCH CIRCUIT AND/OR SWITCHLEG AS APPLICABLE FOR THE KOB R. SPACE. EXPIRES: 6/30/2023 **REVISIONS**: 1 REVISION 1 3/11/22 KEYNOTES (#) TRACK LIGHTS TO BE FOCUSED AND AIMED AT BOARD SEATING AREA. VERIFY LOCATION OF TRACK LIGHTING WITH OWNER AND ARCHITECT PRIOR TO 1 NEW LOCATION OF EXISTING RELAY CONTROL AND OVERRIDE SWITCH FOR EXISTING OFFICE SUITE. FIELD LOCATE AND INTERCEPT EXISTING UNSWITCHED LIGHTING BRANCH CIRCUIT IN THIS AREA. EXISTING LIGHTS IN WAITING 111 TO BE DISCONNECTED FROM EXISTING RELAY CONTROL, FED BY EXISTING BRANCH CIRCUIT AND CONTROLLED VIA NEW OCCUPANCY SENSOR AS SPECIFIED. ENGINEERING 312 NW 10th Ave Suite 100 Portland, OR 97209 ₩ SUM 1260 PFF PROJECT: 21019 DATE: 02.18.2022 ELECTRICAL LIGHTING PLAN -LEVEL 1 E101

| ABBR | REVI/ | ATIONS: | | | | | | |
|------|--------------------------------|------------------------------|--------------|-------------|---|--|--|--|
| 1 | NEMA 1 ENCLOSURE | | | | | | | |
| 3R | NE | MA 3R ENCLOS | SURE | | | | | |
| 4 | NE | MA 4 ENCLOSU | IRE | | | | | |
| 4X | NE | NEMA 4X ENCLOSURE | | | | | | |
| BO | PROVIDED BY OTHERS | | | | | | | |
| СВ | CIF | RCUIT BREAKE | R IN PANEL | | | | | |
| CSD | COMBINATION STARTER/DISCONNECT | | | | | | | |
| СР | CO | RD AND PLUG | PROVIDED W | /ITH UNIT | | | | |
| ECB | ΕN | CLOSED CIRCL | JIT BREAKER | R | | | | |
| FAR | FIF | RE ALARM SHU | TDOWN RELA | λΥ | | | | |
| FDS | FU | SED DISCONNE | ECT SWITCH, | HEAVY DUTY | 1 | | | |
| GF | GR | OUND FAULT C | CIRCUIT INTE | RRUPTION | | | | |
| HOA | HA | ND-OFF-AUTO | | | | | | |
| | | | | | | | | |
| | | ELEC | TRICAL C | HARACTE | - | | | |
| TAG | | | DUAGE | MOTOR | | | | |
| | | VOLTAGE | PHASE | HP | | | | |
| CU- | -1 | 208 V | 1 | - | | | | |
| CU- | | 208 V | 1 | - | | | | |
| EDH | I-1 | 480 V | 3 | - | - | | | |
| EF- | -1 | 120 V | 1 | - | | | | |
| ERV | /-1 | 208 V | 1 | 1 | | | | |
| SS- | -1 | 208 V | 1 | - | | | | |
| SS- | -2 | 208 V | 1 | - | | | | |
| VAV | ′-1 | 120 V | 1 | - | | | | |
| VAV | ′- 2 | 120 V | 1 | - | | | | |
| | | | | | | | | |
| NO | TES | <u>:</u> | | | | | | |
| Α. | | PROVIDE FUS | E AMP RATIN | NGS PER EQI | J | | | |
| В. | | SAFETY DISCO AND MAINTAIN | | - | _ | | | |
| C. | | CONDUIT SHA | LL BE CONC | EALED BELO | ٧ | | | |
| D. | | CONTRACTOR | R TO CONFIR | M OVERCUR | F | | | |

EQUIPMENT CONNECTION SCHEDULE

INT INTEGRAL WITH EQUIPMENT FROM FACTORY

MMS MANUAL MOTOR STARTER WITH FUSES NFD NON-FUSED DISCONNECT SWITCH, HEAVY DUTY

RD RETURN AIR DUCT DETECTOR RSR RUN STATUS RELAY, NORMALLY OPEN

SD SUPPLY AIR DUCT DETECTOR SSP START/STOP PUSHBUTTON WITH PILOT

SS START/STOP PUSHBUTTON

DED WITH UNIT KER RELAY VITCH, HEAVY DUTY

ST SHUNT TRIP TOR TIME DELAY OFF RELAY

TS TOGGLE SWITCH WITH PLUG FUSE VFD VARIABLE FREQUENCY DRIVE

| <u>AL C</u> | CHARACTERISTICS | | | DISCONNECT | | | | <u>NTROLS</u> | | |
|-------------|--------------------|-----------|------------|-------------|-----------------------|-----------------------|----------------------------|----------------|-------------|---|
| ASE | MOTOR <u>HP</u> | <u>KW</u> | <u>MCA</u> | <u>TYPE</u> | <u>SIZE</u> (AMPS) | <u>NEMA</u> RATING | <u>FUSE SIZE</u> (AMPS) | <u>STARTER</u> | DESCRIPTION | REMARKS |
| 1 | - | - | 14 | FDS | 30 | 3R | 20 | - | - | POWERS SS-1. |
| 1 | - | - | 14 | FDS | 30 | 3R | 20 | - | - | POWERS SS-2. |
| 3 | - | 7 | 8.4 | BO | - | - | - | - | - | PROVIDE CONTACTOR/RELAY TO INTERLOCK EDH-1 WITH ERV- |
| 1 | - | 0.093 | 0.8 | TS | 20 | 1 | - | - | - | PROVIDE WALL MOUNTED TOGGLE SWITCH AND LABEL "EXHAU MECHANICAL SCHEDULES FOR ADDITIONAL REQUIREMENTS. |
| 1 | 1 | - | 9.9 | BO | - | - | - | - | - | |
| 1 | - | - | 1 | TS | 20 | 1 | - | - | - | POWER FED FROM OUTDOOR UNIT AT ROOF. PROVIDE CONDU ROOF UNIT AND WIRING CONNECTIONS PER MANUFACTURER F |
| 1 | - | - | 1 | TS | 20 | 1 | - | - | - | POWER FED FROM OUTDOOR UNIT AT ROOF. PROVIDE CONDU ROOF UNIT AND WIRING CONNECTIONS PER MANUFACTURER F |
| 1 | - | - | 1 | TS | 20 | 1 | - | - | - | |
| 1 | - | - | 1 | TS | 20 | 1 | - | - | - | |
| | | | | | | | | | | |

RATINGS PER EQUIPMENT NAMEPLATE, WHERE FUSES ARE INSTALLED.

SWITCHES AT ROOF SHALL BE MOUNTED ON PIPE OR METAL STRUT VERTICAL SUPPORT, ADJACENT TO MECHANICAL EQUIPMENT AND LABELED. COORDINATE LOCATION WITH MECHANICAL SYSTEM INSTALLER SS CLEARANCE TO MECHANICAL EQUIPMENT. SEAL ROOF PENETRATIONS PER ARCHITECTURAL ROOFING REQUIREMENTS.

ONCEALED BELOW ROOF, EXCEPT FOR STUB-UP CONNECTIONS TO EQUIPMENT AND DISCONNECTS, UNLESS OTHERWISE NOTED OR APPROVED. D. CONTRACTOR TO CONFIRM OVERCURRENT PROTECTION RATINGS RECOMMENDED BY MANUFACTURER OF APPROVED EQUIPMENT PRIOR TO ORDERING AND INSTALLATION OF CIRCUIT BREAKERS IN PANELS.

LIGHTING FIXTURE SCHEDULE

- NOTES: 1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED. 2. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING
- LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN. 3. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.
- 4. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES. VERIFY MOUNTING OPTIONS WITH FIELD CONDITIONS PRIOR TO SUBMITTALS. 5. AIM AND TARGET ADJUSTABLE LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE OWNER AND ARCHITECT.
- INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT. 6. TRACK LIGHTING SHALL INCLUDE FITTINGS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION AT THE CEILING LOCATIONS PROPOSED.
- 7. EMERGENCY FIXTURE SYMBOLS NOTED ON THE DRAWINGS SHALL BE AS SCHEDULED BELOW, WITH THE ADDITION OF INTEGRAL 90-MINUTE BATTERY PACK OPERATION. PROVIDE CONSTANT HOT AND SWITCH LEG TO FIXTURES WITH INTEGRAL EMERGENCY...

| TYPE | MANUFACTURER | MODEL | DESCRIPTION | VOLTAGE | LOAD-VA | LAMP TYPE | APPROVED EQUALS |
|------|---------------|---|---|---------|---------|-----------------------|-----------------------|
| A1 | MARK | WHSPR-2X4-90CRI-4000LM-MIN1-MVOLT-SWC-ZT | LED RECESSED 2X4, WITH SOFT WHITE ACRYLIC SHIELD, WHITE, 90CRI | 277 V | 34 VA | LED 3500K 4000LM | LEDALITE SILKSPACE |
| A2 | MARK | WHSPR-2X2-90CRI-4000LM-NODIM-MVOLT-SWC | LED RECESSED 2X2, WITH SOFT WHITE ACRYLIC SHIELD, WHITE, 90CRI | 277 V | 38 VA | LED 3500K 4000LM | LEDALITE SILKSPACE |
| A3 | MARK | WHSPR-1X4-90CRI-4800LM-MIN1-MVOLT-SWC-ZT | RECESSED TROFFER 1X4, WITH SOFT WHITE ACRYLIC SHIELD, WHITE, 90CRI | 277 V | 49 VA | LED 3500K 4800LM | LEDALITE SILKSPACE |
| D1 | GOTHAM | EVO6-35-20-AR-MWD-LSS-MVOLT-GZ1 | 6IN LED OPEN DOWNLIGHT, WITH CLEAR FLANGE AND SEMI-SPECULAR FINISH | 277 V | 20 VA | LED 3500K 2000LM | LIGHTOLIER CALCULITE |
| E1 | LITHONIA | ELM4L | EMERGENCY LIGHT, WALL MOUNTED, WHITE THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, WITH 90-MINUTE BATTERY BACKUP | 277 V | 2 VA | LED | EATON/COOPER, PHILIPS |
| F1 | RBW | PASTILLE 1 DISC PAS-1D-D-PC20-35-277 10 DEX | LED INTERIOR WALL SCONCE, WHITE, 90CRI | 277 V | 8 VA | LED 3500K 430LM | |
| F2 | RBW | CENTRO CTF-18-PC20-35-277 10 DIN | LED SURFACE MOUNTED FIXTURE - 18IN ROUND, WHITE, 90CRI | 277 V | 30 VA | LED 3500K 2400LM | |
| F3 | TECH LIGHTING | KOSA 18 | LED SURFACE MOUNTED FIXTURE - 18IN ROUND, WHITE, 90CRI, 0-10V DIMMING | 277 V | 22 VA | LED 3000K 900LM | |
| L1 | LITHONIA | ZL1N-L48-5000LM-FST-MVOLT-35K-80CRI-WH-HC(LENGTH) | 4FT LED STRIP WITH FROSTED LENS, CUSTOM LENGTH CHAIN HUNG PENDANT MOUNT AT 9"-6" FT AFF. CONFIRM PROPER CLEARANCE FROM LADDER TRAY IN FRAME ROOM. | 277 V | 25 VA | LED 3500K 3200LM | |
| L2 | AXIS | BEAM 2 TB2SLED-750-90-35-WW-S(14)-W-UNV-DP-1-S | 14FT LED LINEAR SURFACE MOUNT, DIRECT WALLWASH, 90CRI. MOUNT 2FT SETBACK FROM WALL, FLUSH TO CEILING WITH THREADED ROD THROUGH CEILING TILE. | 277 V | 90 VA | LED 3500K 750LM/FT | |
| P1 | FINELIGHT | HPX-P-ID-8-S-B-835-TG-277-SC-FC1%-FA100-C2-F E-SW | 8FT LED LINEAR PENDANT FIXTURE, DIRECT/INDIRECT. VERIFY MOUNTING HEIGHT WITH ARCHITECT. | 277 V | 62 VA | LED 3500K 7560LM | CORONET LS3 |
| P2 | FINELIGHT | HPX-P-ID-16-S-B-835-TG-277-SC-FC1%-FA100-C2-F E-SW | 16FT LED LINEAR PENDANT FIXTURE, DIRECT/INDIRECT. VERIFY MOUNTING HEIGHT WITH ARCHITECT. | 277 V | 124 VA | LED 3500K 15120LM | |
| P3 | FINELIGHT | HPX-P-ID-24-S-B-835-TG-277-SC-FC1%-FA100-C2-F E-SW | 24FT LED LINEAR PENDANT FIXTURE, DIRECT/INDIRECT. VERIFY MOUNTING HEIGHT WITH ARCHITECT. | 277 V | 185 VA | LED 3500K 22680LM | CORONET LS3 |
| T1 | WAC | WHK-5028W-935-WT GLARE SHIELD: 5028-HSHR-WHT W SERIES TRACK | 24FT LED TRACK, 3X4 WALL WASH HEADS, BLACK FINISH, 90CRI. MOUNT TRACK 3FT SETBACK FROM WALL, SPACE HEADS 3FT ON CENTER, TOTAL OF (8) 28W HEADS. 1-AMP CURRENT LIMITER. SET AT 30 DEGREES AND ADJUST IN FIELD. | 277 V | 224 VA | LED 3500K | |
| T2 | WAC | WHK-5028W-935-WT GLARE SHIELD: 5028-HSHR-WHT W SERIES TRACK | 16FT LED TRACK, 3X4 WALL WASH HEADS, BLACK FINISH, 90CRI. MOUNT TRACK 3FT SETBACK FROM WALL, SPACE HEADS 3FT ON CENTER, TOTAL OF (5) 28W HEADS. 1-AMP CURRENT LIMITER. SET AT 30 DEGREES AND ADJUST IN FIELD. | 277 V | 140 VA | LED 3500K | |
| Т3 | WAC | PALOMA WHK-4023-835-WT W SERIES TRACK | 8FT LED TRACK, 45-DEGREE BEAM, BLACK FINISH, 90CRI. SPACE HEADS 1.5FT ON CENTER, TOTAL OF (5) 22W HEADS. 1-AMP CURRENT LIMITER. AIM AND ADJUST BEAM IN FIELD AS DIRECTED BY OWNER. | 277 V | 110 VA | LED 3500K | $\sim \sim 1$ |
| X1 | LITHONIA | LQM-S-W-3-G-MVOLT-ELN | LED EXIT SIGN, SINGLE FACE, UNIVERSAL MOUNTING, WITH 90-MINUTE BATTERY BACKUP | 277 V | 5 VA | GREEN LED | |
| X2 | LITHONIA | LQM-S-W-3-G-MVOLT-ELN | LED EXIT SIGN, DOUBLE FACE, UNIVERSAL MOUNTING, WITH 90-MINUTE BATTERY BACKUP. CHEVRONS AS SHOWN ON PLANS. | 277 V | 5 VA | GREEN LED | |

| | LIGHTING CONTROLS SCHEDULE |
|-----------------|--|
| NO [.] | TES: |
| 1. | ALL DEVICES SHALL BE U.L. OR SIMILARLY LISTED. |
| 2 | ALL DEVICES PROVIDED WITH MANUFACTURER LIMITED 5 YEAR WARRANTY. |
| 3. | PROVIDE LIGHTING CONTROLS WITH MANUFACTURER COMPLIANT POWER PACKS AND LOW VOLTAGE ROOM CONTROLLERS IN QUAN MANUFACTURER OR MANUFACTURERS REP TO PROVIDE DEVICE QUANTITES, LAYOUTS AND TYPICAL WIRING DETAILS DURING SHOP CONNECTION, NO WIRELESS ARE ACCEPTED. PROVIDE DIMMING COMPATIBLE DEVICES WHERE DIMMING CONTROLS ARE SHOWN. CO |
| 4. | INSTALL LOW VOLTAGE POWER PACKS AND ROOM CONTROLLERS ABOVE NEARBY ACCESSIBLE CEILING TILES OR IN MECHANICAL/ST POWERPACKS EXPOSED IN COMMON SPACES OR IN INACCESSIBLE LOCATIONS. |
| 5. | PROVIDE FACTORY AUTHORIZED REPRESENTATIVE TO DEMONSTRATE TYPICAL INSTALLATION AND COMMISSIONING OF EQUIPMENT. |
| 6. | WHERE APPROVED EQUAL MANUFACTURER PRODUCTS SENSOR COVERAGE OR LOAD RATINGS DIFFER FROM BASIS OF DESIGN, CON DEVICES AS NECCESARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. |
| 7. | EMERGENCY LIGHTING AND BATTERY BACKUP COMPONENTS SHALL BE TESTED AND LISTED AS COMPATIBLE BY MANUFACTURER WIT |

8. UNLESS INDICATED OTHERWISE, LIGHTING CONTROL SCHEMES/OPERATION SHALL BE AS FOLLOWS:

 CORRIDORS, RECEPTION,
 EXISTING RELAY SYSTEM WITH MANUAL ON LOW-VOLTAGE TOGGLES AND AUTOMATIC TIMED OFF OFF OPERATION.

 VESTIBULES, COMMON
 CONTRACTOR

SPACES:

BOARD ROOM: SENSORS PROGRAMMED FOR VACANCY MODE, MANUAL ON/AUTOMATIC OFF OPERATION 20 MINUTE TIME DELAY. DIMMING CONTROL OF FIXTURES WITHIN DAYLIGHT ZONES SHALL BE BY ALWAYS ON DAYLIGHT SENSOR. INTEGRATED PROVISIONS FOR THREE (3) PRESET SCENES BY DRY CONTACT INTERFACE WITH AV SYSTEM. VERIFY PRESET CONTROLS WITH OWNER... ALL OTHER SPACES SENSORS PROGRAMMED FOR VACANCY MODE, MANUAL ON/AUTOMATIC OFF OPERATION 20 MINUTE TIME DELAY. DIMMING CONTROL OF FIXTURES WITHIN DAYLIGHT ZONES SHALL BE BY ALWAYS ON DAYLIGHT SENSOR.

| | | | | | | DESIGNED BY: INITIALS |
|-------------|--|-------------------------|------------------------------|---------------------|-------------------------|------------------------|
| <u>TYPE</u> | DESCRIPTION | ELECTRICAL | MOUNTING | SENSOR TYPE | COVERAGE | APPROVED MANUFACTURERS |
| OS1 | WALL SWITCH OCCUPANCY SENSOR. DEVICE FINISH MATCHING WIRING DEVICES SPEC. RATED FOR MIN 1/6 HP MOTOR. INTEGRAL AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. 8-30 MINUTE TIMER SETTINGS. | 277V | WALL SWITCH / SINGLE GANG | PASSIVE INFRARED | 1000 SQ FT / 180 DEG | WATTSTOPPER |
| S1a | SINGLE ZONE CONTROL LIGHT SWITCH. DIMMING LIGHTING CONTROL. LIGHTING CONTROLS NETWORK COMPATIBLE DEVICE. ROOM CONTROLLER COMPATIBLE, ENABLING MULTI-ZONE SWITCHING CONTROL AND MULTI-SOURCE DIMMING. PROVIDED WITH MANUFACTURER DECORATIVE WALLPLATE. DEVICE FINISH MATCHING WIRING DEVICES SPEC. | LOW VOLTAGE | WALL SWITCH / SINGLE GANG | N/A | N/A | WATTSTOPPER |
| S2a | TWO ZONE CONTROL LIGHT SWITCH. DIMMING LIGHTING CONTROL. LIGHTING CONTROLS NETWORK COMPATIBLE DEVICE. ROOM CONTROLLER COMPATIBLE, ENABLING MULTI-ZONE SWITCHING CONTROL AND MULTI-SOURCE DIMMING. PROVIDED WITH MANUFACTURER DECORATIVE WALLPLATE. DEVICE FINISH MATCHING WIRING DEVICES SPEC. | LOW VOLTAGE | WALL SWITCH / SINGLE GANG | N/A | N/A | WATTSTOPPER |
| D y2 | CONTINUOUS DIMMING 0-10V CONTROL PHOTOCELL. LIGHTING CONTROLS NETWORK COMPATIBLE DEVICE. ROOM CONTROLLER COMPATIBLE, ENABLING MULTI-ZONE SWITCHING CONTROL AND MULTI-SOURCE DIMMING. 0-500 FC LIGHT SENSITIVITY WITH ADJUSTABLE THRESHOLD. ADJUSTABLE DIMMING TIME DELAY. | LOW VOLTAGE | CEILING | CLOSED LOOP | N/A | WATTSTOPPER |
| OS OS2 | WALL SWITCH OCCUPANCY SENSOR. DEVICE FINISH MATCHING WIRING DEVICES SPEC. RATED FOR MIN 1/6 HP MOTOR. INTEGRAL AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. 8-30 MINUTE TIMER SETTINGS. | 277V / 0-10V DIMMING | WALL SWITCH / SINGLE GANG | DUAL-TECH | 1000 SQ FT / 180 DEG | WATTSTOPPER |
| OS y2 | CEILING MOUNTED OCCUPANCY/VACANCY SENSOR. WHITE FINISH. AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. 8-30 MINUTE TIMER SETTINGS. INDOOR USE. | LOW VOLTAGE | CEILING / 8'-12' MH | DUAL-TECH | 2000 SQ FT / 360 DEG | WATTSTOPPER |

RV-1. HAUST FAN". REFER TO

DUIT FROM INDOOR UNIT TO

ER REQUIREMENTS. IDUIT FROM INDOOR UNIT TO ER REQUIREMENTS.

8. LIGHTING FIXTURE EQUAL ALTERNATES DIFFERING FROM THE SPECIFIED MANUFACTURER AND MODEL ARE SUBJECT TO REVIEW AND APPROVAL BY OWNER AND ARCHITECT. FOOTCANDLE CALCULATIONS OF THE APPLICATION WILL BE REQUIRED UPON...

ANTITY REQUIRED TO INSTALL A COMPLETE AND OPERATIONAL SYSTEM. OP SUBMITTAL PROCESS. LIGHTING CONTROL COMPONENTS SHALL BE WIRING COORDINATE DIMMING TYPE WITH LIGHTING FIXTURES SHOWN. REFER TO...

STORAGE SPACES ADJACENT TO CONTROLLED FIXTURES. DO NOT INSTALL

CONTRACTOR AND MANUFACTURER ARE RESPONSIBLE FOR PROVIDING ADDITIONAL WITH NORMAL LIGHTING CONTROLS IN ALL AREAS.

SUI 126

DATE: 02.18.2022

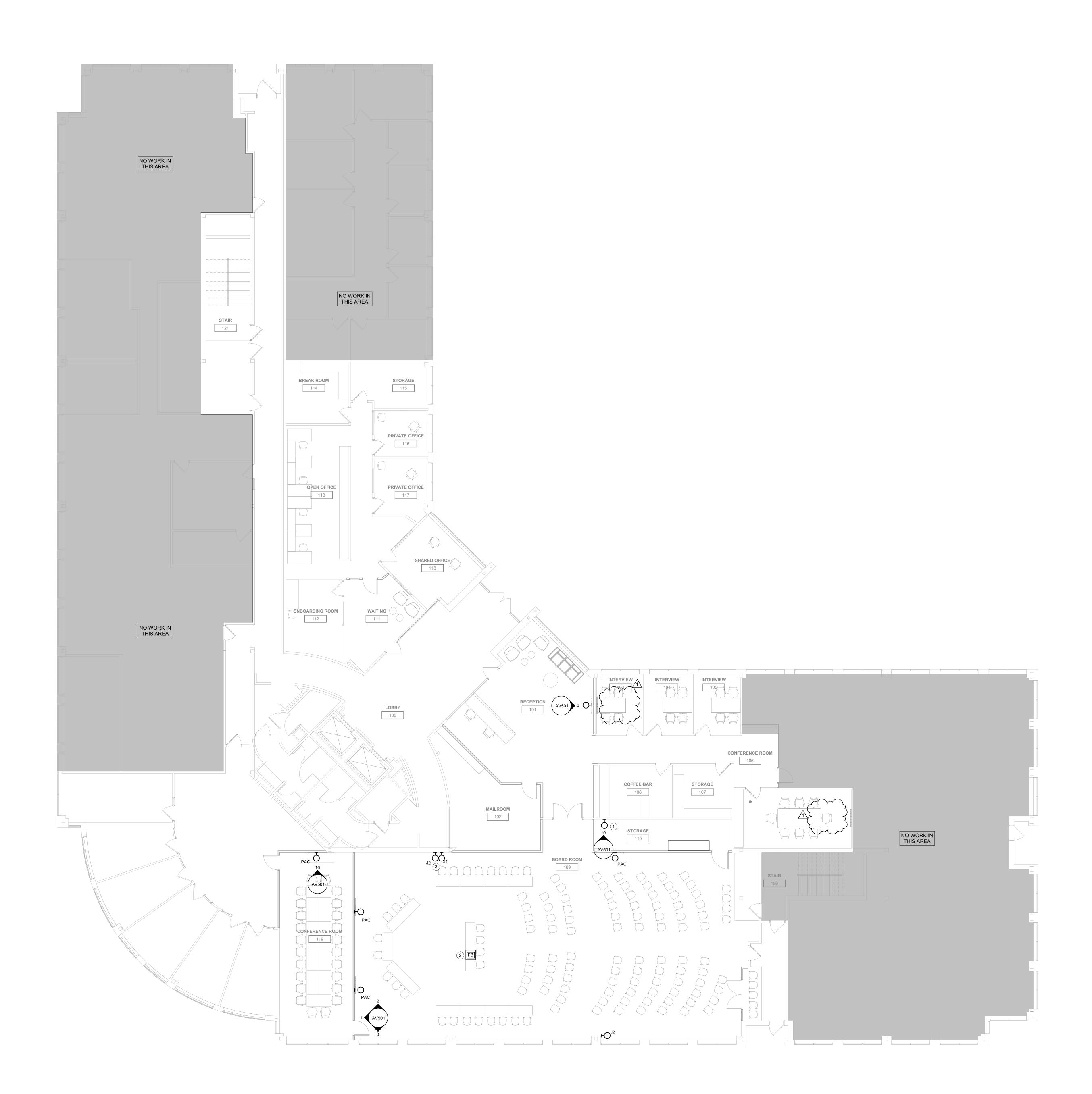
21019

ELECTRICAL SCHEDULES E301

PROJECT:









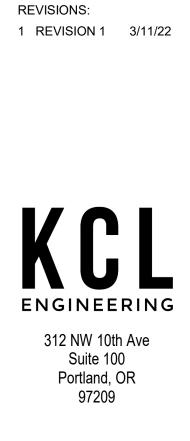
| <u>GEN</u> | ERAL NOTES |
|------------|---|
| Α. | COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. |

- B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.
- C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.
- SECURITY MANAGEMENT SYSTEM CABLING.D.SEE AV ELEVATION DRAWINGS FOR LOCATING AV J BOXES.
- E. TELECOM AND POWER ARE SHOWN FOR REFERENCE ONLY. SEE TELECOM AND ELECTRICAL SETS FOR MORE INFORMATION.

Wall or floor plate for AV connections. See elevations and electrical for more details Wireless for all table microphones, no connection to floor box

AV wall control panel and AV wall connection panel to be beyond custom graphics on wall. Confirm J box placement with architect before installing.

KEYNOTES (#)



HBx STUDIO

FRED PROFES

WGINEED

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R. KOB

OREGON

EXPIRES: 6/30/2023

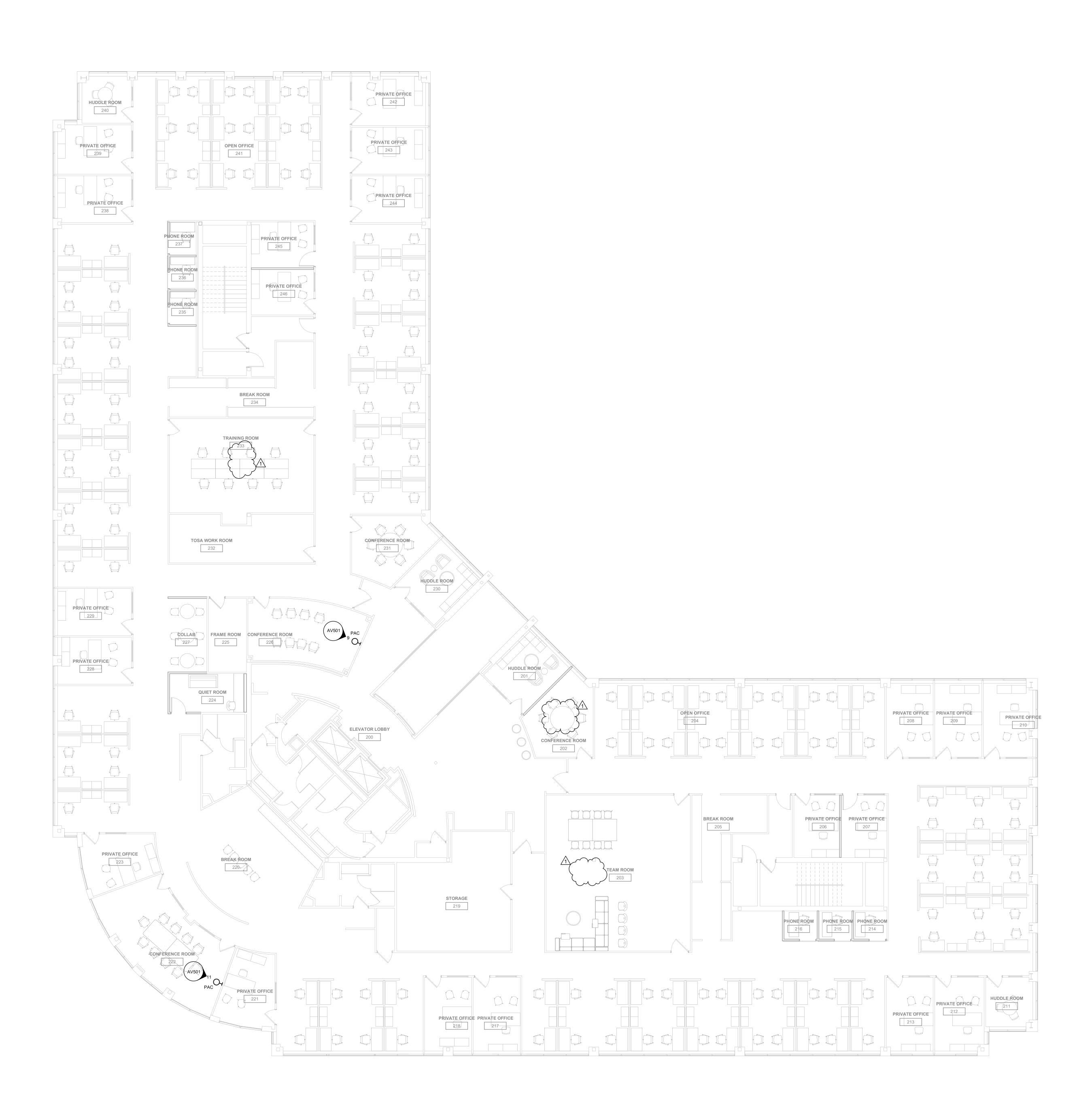
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ERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

| SUMMIT BUILDING 1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006 | PERMIT DOCUMENTATION |
|---|----------------------|
| ROJECT: ATE: | 21019 02.18.2022 |
| | |

AUDIO VISUAL ELECTRICAL PLAN - LEVEL 1 AV301

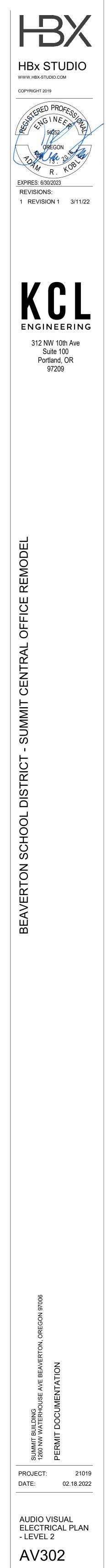


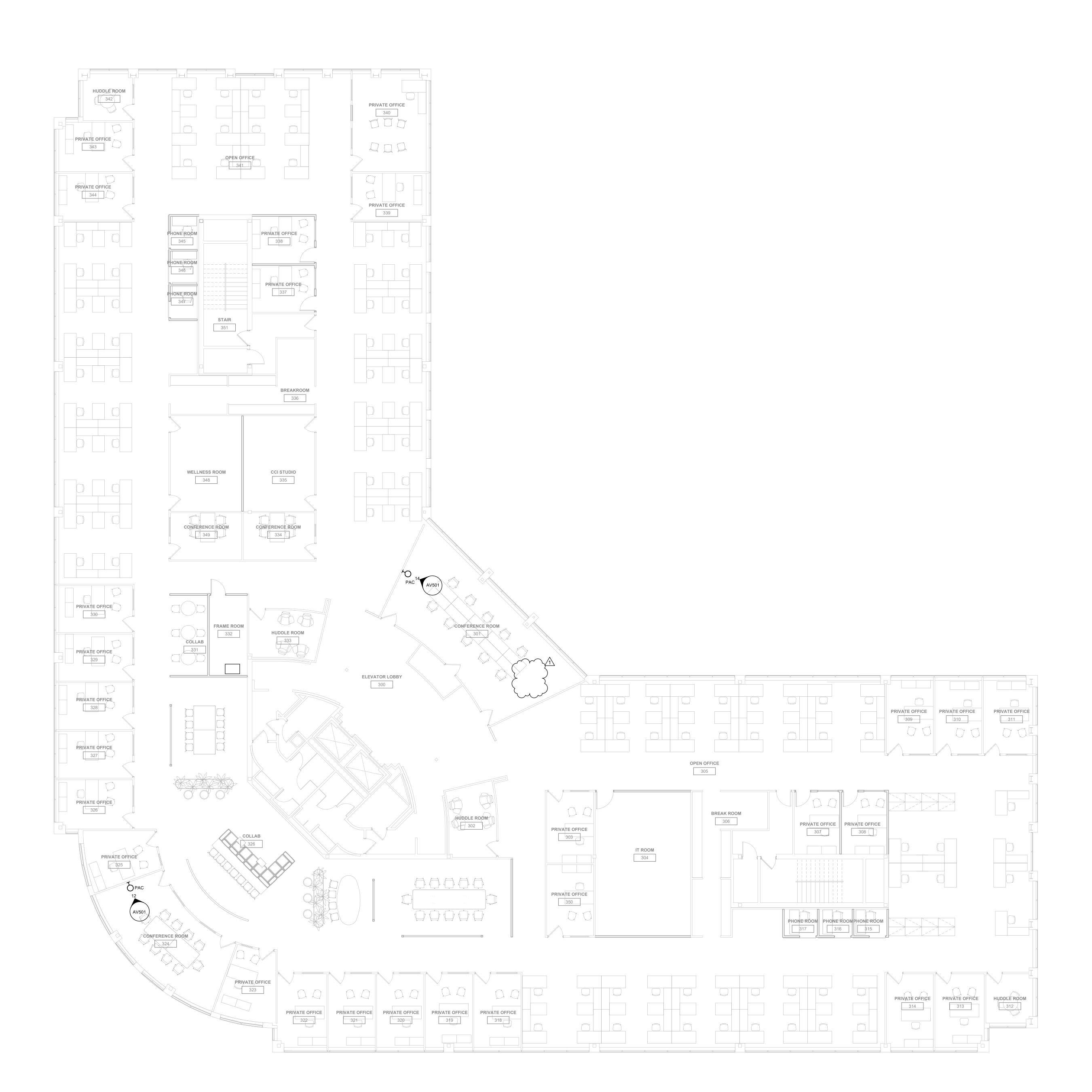
TECHNOLOGY AUDIO VISUAL ELECTRICAL PLAN - LEVEL 2 1/8" = 1'-0"

GENERAL NOTES

- A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.
- C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.
- D. ABBREVIATIONS: N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)



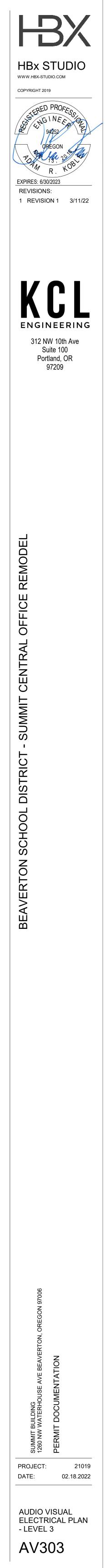


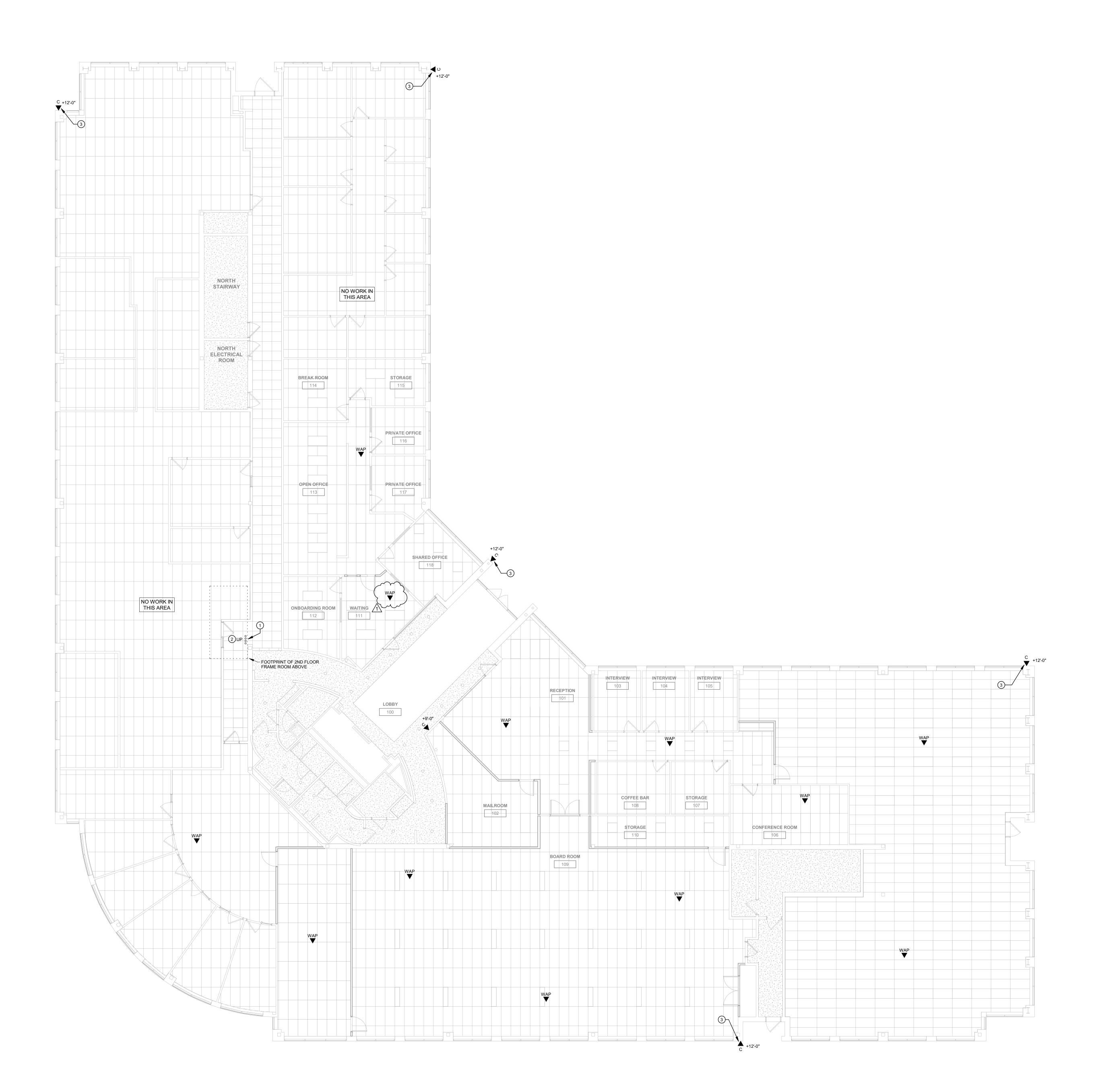
TECHNOLOGY AUDIO VISUAL ELECTRICAL PLAN - LEVEL 3 1/8" = 1'-0"

GENERAL NOTES

- A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.
- C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.
- D. ABBREVIATIONS: N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)





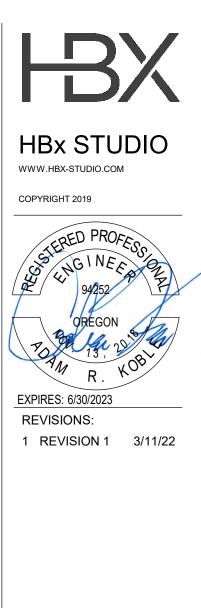
TECHNOLOGY COMMUNICATIONS CEILING PLAN - LEVEL 1 1/8" = 1'-0"

GENERAL NOTES

- A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
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KEYNOTES (#)

- PROVIDE FOUR (4) 4" CONDUIT SLEEVE FLOOR PENETRATIONS FROM THIS FRAME ROOM DOWN TO THE FLOOR BELOW. UTILIZE THESE PATHWAYS FOR TELECOMMUNICATIONS CABLING AND ALL OTHER SPECIAL SYSTEMS.
 ROUTE ALL 1ST FLOOR DATA CABLING TO THE 2ND FLOOR
- 2 ROUTE ALL 1ST FLOOR DATA CABLING TO THE 2ND FLOOR FRAME ROOM.
 3 PROVIDE AN EXTERIOR WEATHERPROOF PENETRATION FOR THE CORNER MOUNTED VIDEO SURVEILLANCE CAMERA CABLING. TERMINATE CABLE ON THE INTERIOR OF THE BUILDING UTILIZING A SURFACE MOUNT JACK. FINAL
- CABEING. TERMINATE CABLE ON THE INTERIOR OF THE BUILDING UTILIZING A SURFACE MOUNT JACK. FINAL CONNECTION TO THE CAMERA SHALL BE THROUGH THE USE OF A MANUFACTURER TERMINATED PATCH CABLE. DIRECT CAMERA ATTACHMENT WILL NOT BE ACCEPTED.

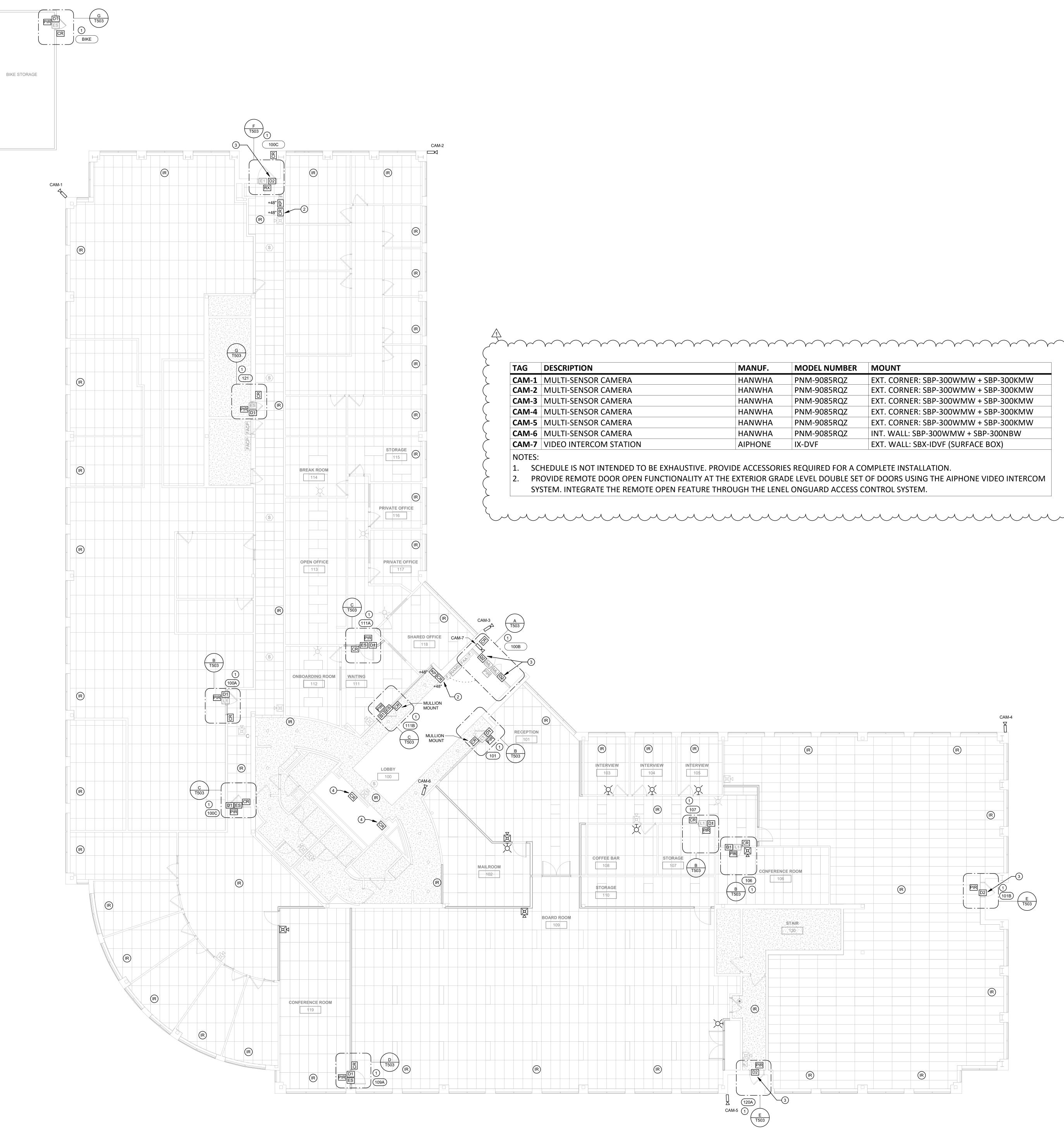




RTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

| SUMMIT BUILDING 1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006 | PERMIT DOCUMENTATION | |
|---|----------------------|---------------------|
| PROJECT: | | 210 |
| DATE: | | 02.18.20 |
| TECHNC COMMUI CEILING LEVEL 1 | NIC | GY ATION AN - |

T201



TECHNOLOGY SAFETY & SECURITY CEILING PLAN - LEVEL 1 1/8" = 1'-0"

| | HANWHA | PNM-9085RQZ | INT. WALL: SBP-300WMW + SBP-300NBW | |
|-------|---------------|---------------------|---|---------|
| | AIPHONE | IX-DVF | EXT. WALL: SBX-IDVF (SURFACE BOX) | Ź |
| | | | | \prec |
| ROVID | E ACCESSORIES | REQUIRED FOR A COI | MPLETE INSTALLATION. | ζ |
| THE E | XTERIOR GRADE | ELEVEL DOUBLE SET C | OF DOORS USING THE AIPHONE VIDEO INTERCOM | 5 |
| THROU | JGH THE LENEL | ONGUARD ACCESS CC | ONTROL SYSTEM. | |
| | | | | 5 |

| MANUF. | MODEL NUMBER | MOUNT |
|---------|---------------------|--------------------------------------|
| HANWHA | PNM-9085RQZ | EXT. CORNER: SBP-300WMW + SBP-300KMW |
| HANWHA | PNM-9085RQZ | EXT. CORNER: SBP-300WMW + SBP-300KMW |
| HANWHA | PNM-9085RQZ | EXT. CORNER: SBP-300WMW + SBP-300KMW |
| HANWHA | PNM-9085RQZ | EXT. CORNER: SBP-300WMW + SBP-300KMW |
| HANWHA | PNM-9085RQZ | EXT. CORNER: SBP-300WMW + SBP-300KMW |
| HANWHA | PNM-9085RQZ | INT. WALL: SBP-300WMW + SBP-300NBW |
| AIPHONE | IX-DVF | EXT. WALL: SBX-IDVF (SURFACE BOX) |

GENERAL NOTES

- A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
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(#)

KEYNOTES

- ACCESS CONTROL OPENING. REFER TO THE ACCESS CONTROL 1 DETAILS FOR ROUGH-IN, WIRING AND DEVICE REQUIREMENTS. PROVIDE A PROXIMITY CARD READER ADJACENT TO THE INTRUSION DETECTION KEYPAD. PROXIMITY READER SHALL BE DEDICATED TO ARMING AND DISARMING THE BUILDING USING GROUPS WITHIN THE LENEL ONGUARD SOFTWARE. WIRING FROM THE LNL-1320 READER BOARD SHALL BE INTERFACED WITH THE DEDICATED INPUT ON THE BOSCH INTRUSION DETECTION PANEL THAT ALLOWS FOR ARMING AND
- DISARMING BASED ON CONTACT CLOSURE. EXTERIOR PERIMETER DOOR. NEW DOOR POSITION SWITCH(ES) SHALL BE DOUBLE-POLE, DOUBLE-THROW. INTERFACE ONE SET OF CONTACTS TO THE ACCESS CONTROL SYSTEM AND THE SECOND SET TO THE INTRUSION DETECTION SYSTEM.
- EXISTING ELEVATOR FLOOR CONTROL THROUGH THE HONEYWELL 4 WINPAK ACCESS CONTROL SYSTEM. PROVIDE NEW CARD READERS AND RE-INTERFACE THE ELEVATOR FLOOR CONTROL CABLING WITH THE NEW LENEL ONGUARD ACCESS CONTROL SYSTEM.

94252 EXPIRES: 6/30/2023 **REVISIONS:** 1 REVISION 1 3/11/22 ENGINEERING 312 NW 10th Ave Suite 100 Portland, OR 97209

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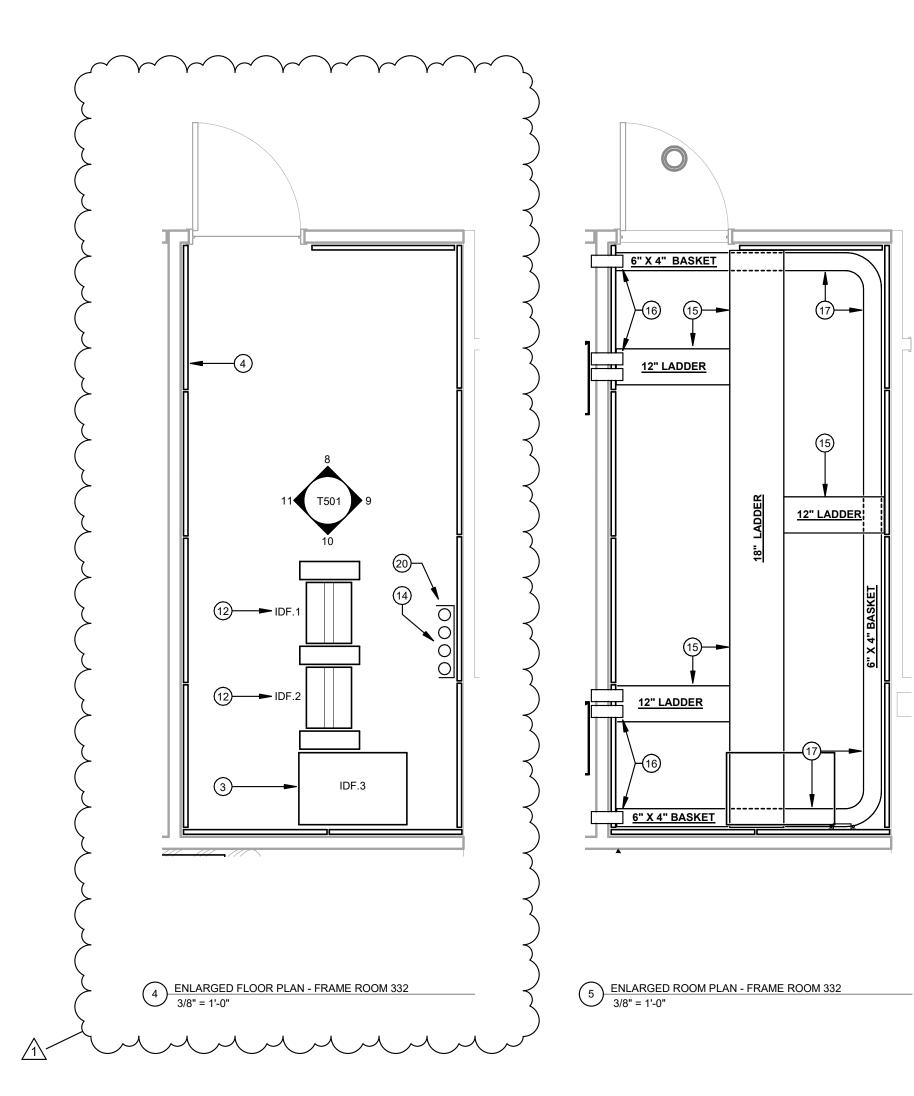
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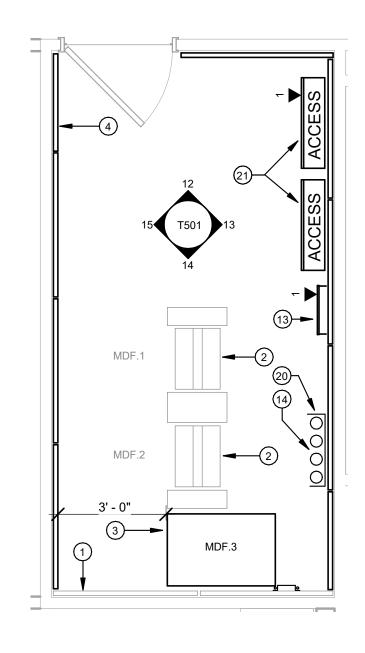
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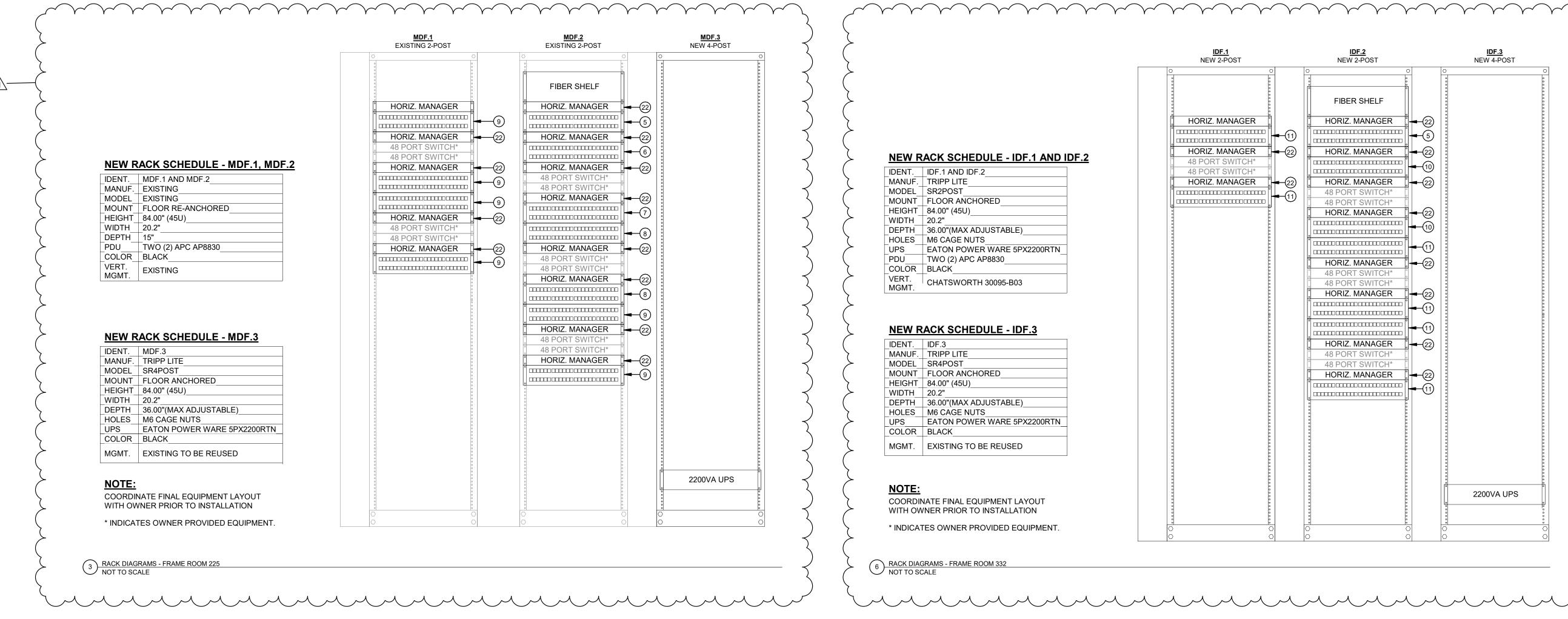
| SUMMIT BUILDING 1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006 | PERMIT DOCUMENTATION | | |
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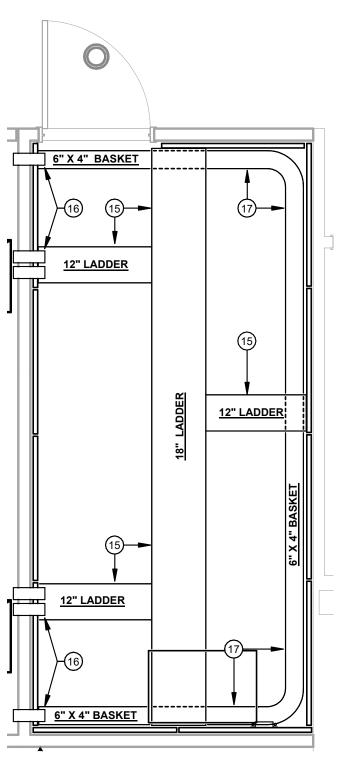
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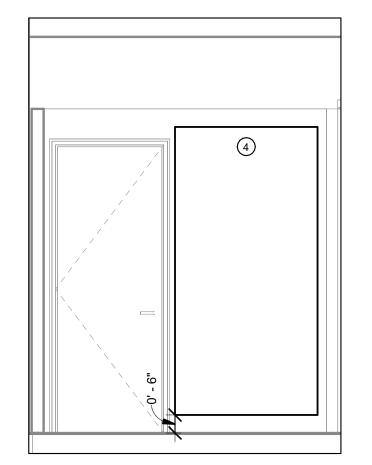




1 ENLARGED FLOOR PLAN - FRAME ROOM 225 3/8" = 1'-0"





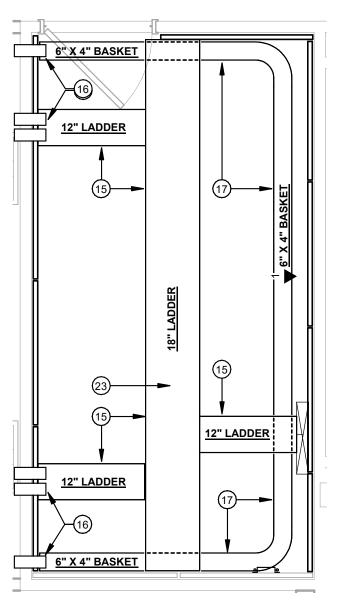


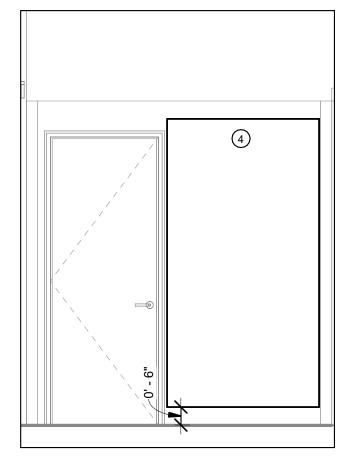
8 ELEVATION - FRAME ROOM 332 NORTH WALL 3/8" = 1'-0"

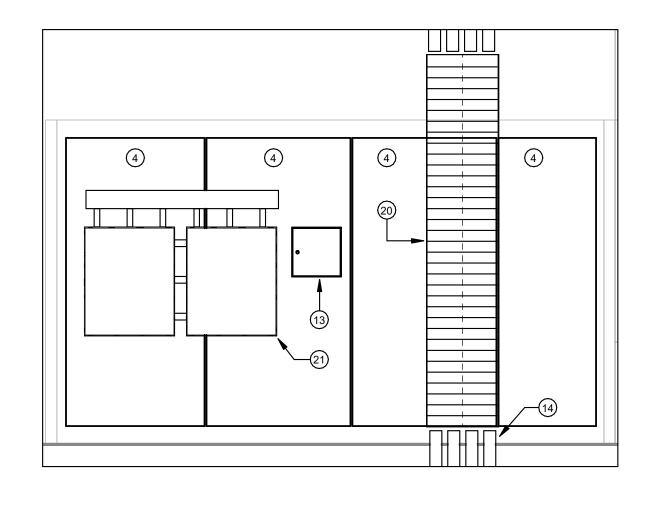
(4)(4)

9 ELEVATION - FRAME ROOM 332 EAST WALL

3/8" = 1'-0"



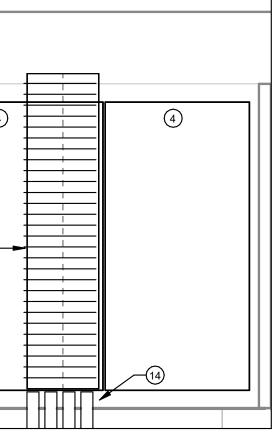


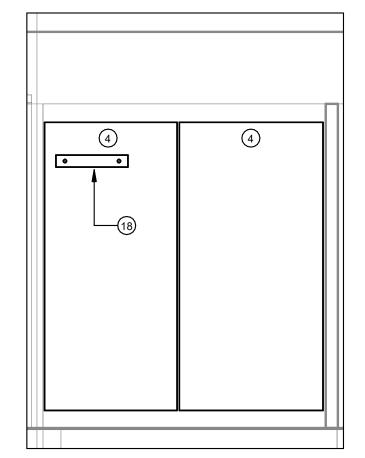


2 ENLARGED ROOM PLAN - FRAME ROOM 225 3/8" = 1'-0"

12 ELEVATION - FRAME ROOM 225 NORTH WALL 3/8" = 1'-0"

13 ELEVATION - FRAME ROOM 225 EAST WALL 3/8" = 1'-0"

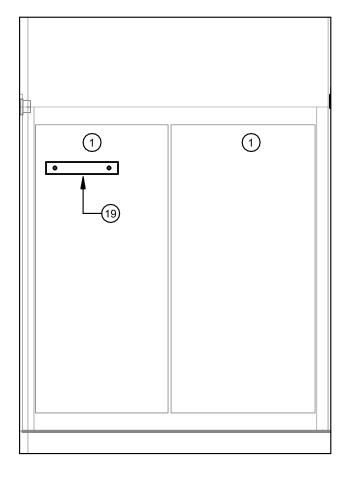




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(10) ELEVATION - FRAME ROOM 332 SOUTH WALL 3/8" = 1'-0"

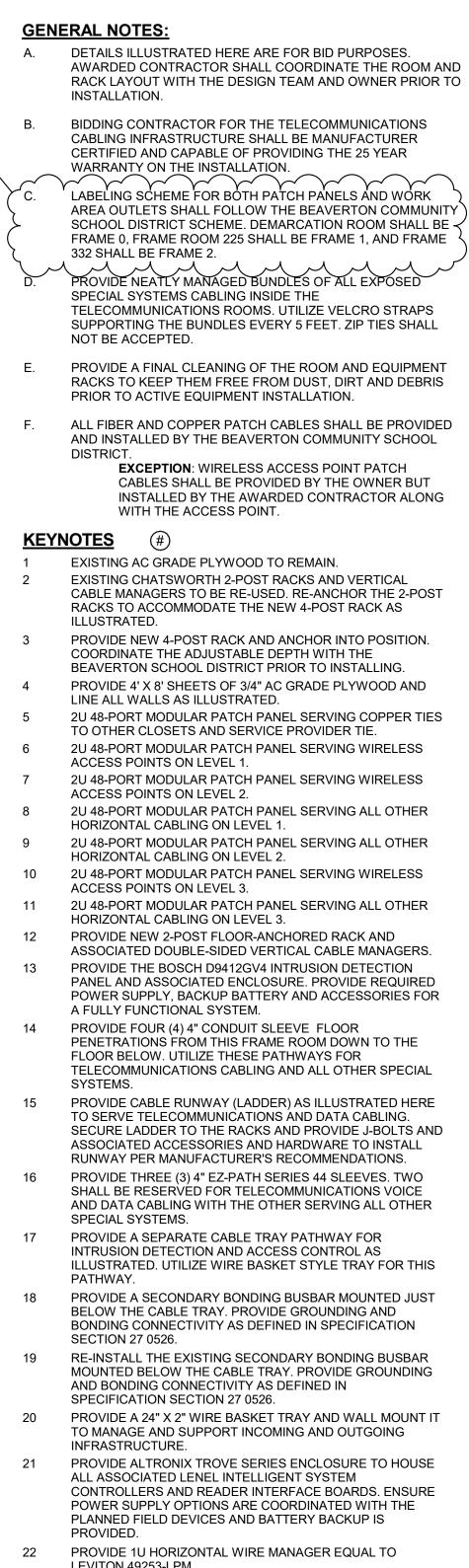
11 ELEVATION - FRAME ROOM 332 WEST WALL 3/8" = 1'-0"



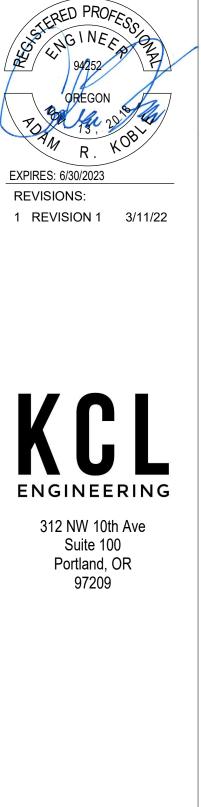
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| | | |

14 ELEVATION - FRAME ROOM 225 SOUTH WALL 3/8" = 1'-0"

15 ELEVATION - FRAME ROOM 225 WEST WALL 3/8" = 1'-0"



LEVITON 49253-LPM. PROVIDE CABLE DROPOUTS TO LADDER RUNWAY FOR EACH 23 LOCATION THAT CABLING EXITS THE RUNWAY.



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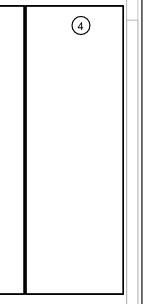
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| SUMMIT BUILDING 1260 NW WATERHOUSE AVE BEAV | PERMIT DOCUMENTATION | | |
| SUMMIT BL 1260 NW W | PERMIT | | |
| PROJECT: DATE: | 02.1 | 21019 8.2022 | |
| TECHNOLOGY DETAILS | | | |

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ATTENDANCE SHEET

Meeting: ITB 21-0016 Pre-Bid Conference

Project: Summit Building- General Contractor

Date & Time: March 1, 2022- 3:30 PM

| Name | Organization / Address | Phone Number | Email Address |
|----------------|---|----------------|------------------------------------|
| Eric Russ | Ross Builders NW 3155 SE Century Dul Suiko, Hilbrow | 503-430-0316 | bidse rossbuildersnw.com |
| Tyler Anderson | Codar Mill Construction 19465 SW 89th Ane-Juckton OR | 503-885-9370 | typer@cedarmillec.com |
| KEVIN HULD | Nulsonville Or | 503-230-6003 | khela e harverco - un |
| Lainee Perala | Perio Construction | 503-713-8483 | Lpevala a perlo biz |
| JASON ROACH | Anning Johnson Logis Sw Comerce, Cir Wilman. | 503-519-9170 | jroacheanningjohnion.com |
| Melinda Maahs | 2121 NW Thurman, Portan | 1 971-712-6926 | melinda mache EC Powers life . com |
| Todd ERTEIL | INLand Electric 360 Base line Hillsbirdon | | twee inlandegroup. Com |
| Marke Epling | Epling Electric, LLC 1295 SE 62= Ave. | 971-444-5721 | officeeeplingelectric.com |
| George MARUAN | ANDERSEN CONSTRUCTION 6712 N Cuttle circle | 503-969-6916 | gMATUHN @ Anderse W Const. Com |
| | | | |
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ATTENDANCE SHEET

Project: Summit Building- General Contractor Date & Time: March 1, 2022- 3:30 PM

| Name | Organization / Address | Phone Number | Email Address |
|-----------------|------------------------|------------------|---------------------------------|
| BEDO DURANOP | NEWS CONTRUCTION | 513 887.1728 | HEATHER @ INSIACONSTRUTTON. COM |
| Jeromy Barrett | Siegner and Company | 971-303-6414 | jevery Osiegnorand company. com |
| Jon Cook | Anderson Construction | 503-680-9133 | jcook Randerson-Lonst.com |
| EDDIE PHILLIPS | BSD | | |
| Adam Koble | KCL Everineering | 507-679-5454 | a Koble (à Kelenghang, an |
| AL BI-Dossary | KCL Engineerj | 503 - 502 - 7084 | AAL- Dossay & Kelensinenz. com |
| JASON MOMPHAN | B3b. | | |
| MICHAEL DARGETT | HER STUDIO | 541-968-9574 | MICHATEL COMX HEX-STUDIO. COM |
| Aaron Boyle | BSD | | |
| Mike Boell | B50 | | |
| CHAD WALKER | SKYWALD CONSTRUCTION | (360) 546-1625 | bidse skywardconstruction.com |
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