



JRCA Architects, Inc.
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ARCHITECTS

ADDENDUM NUMBER ONE

DATE OF ISSUANCE: August 16, 2019 **PROJECT NUMBER:** 19028

PROJECT: Snowbasin Clinic
3925 Snow Basin Road
Huntsville, Utah 84317 **ARCHITECT:** JRCA Architects, Inc.
577 South 200 East
Salt Lake City, Utah 84111

OWNER: Intermountain Healthcare
36 South State Street
Salt Lake City, Utah 84111

Incorporate the following revisions to the Specifications, Drawings and other Contract Documents of the above named project. General Items are not referenced. Revisions to the Specifications are referenced by section, page number, and paragraph number. Revisions to the Drawings are referenced by drawing sheet number. This addendum forms part of the Construction Documents.

The end of this Addendum is indicated by the note "END OF ADDENDUM". Attachments are located at the end of the Addendum and are referenced in the Addendum.

General Items:

| <u>Item No.</u> | <u>Section or Sheet No.</u> | <u>Description</u> |
|-----------------|-----------------------------|---|
| AD1-1 | N/A | Bid Due date and time will be moved to Thursday August 22, 2019 @ 2pm. |
| AD1-2 | N/A | Intermountain will have a \$2,000 allowance for moving sprinkler heads in the lobby. Please include line item in bid. |
| AD1-3 | N/A | Intermountain will include a \$4,000 allowance for x-ray of floor in clinic space in advance of trenching for any power or plumbing. Please include as line item in bid. |
| AD1-4 | N/A | Existing deck height is 12'-0". Due to the small space we would like to keep ceilings at 9'-0". The lobby will obviously remain the same height as existing and be a hard lid. HVAC and electrical accommodations have been made. |

Specification Items:

| <u>Item No.</u> | <u>Section or Sheet No.</u> | <u>Description</u> |
|-----------------|-----------------------------|--|
| AD1-5 | 06 41000 | Architectural Casework Specification updated to include laminate materials for both counters and cabinets. Laminate materials only, no quartz. |

Drawing Items:

| <u>Item No.</u> | <u>Section or Sheet No.</u> | <u>Description</u> |
|-----------------|-----------------------------|---|
| AD1-6 | DP101 | See demo plan indicating demo of any existing ceilings that will require access for new ceiling or MEP equipment. |
| AD1-7 | AE101 | See updated plan for wall type in IT room. |

| | | |
|--------|-------|--|
| AD1-8 | AE121 | See updated plan for specific finishes in IT room. |
| AD1-9 | AE131 | Lobby will be included in scope of work. Furniture will be provided by owner. |
| AD1-10 | AE411 | Elevation A2/AE411 for triage area is the same layout as exam rooms, size will be adjusted for the space. |
| AD1-11 | AE601 | See updated door schedule with door sizes and specifications. All sliding doors are owner purchased; contractor installed. All swing doors will be purchased and installed by contractor through Robert I. Merrill to match sliding door assemblies. Imaging room door will require lead lining. See finish schedule for door information. |

END OF ADDENDUM ONE

SECTION 06 4100
ARCHITECTURAL WOOD CASEWORK

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Specially fabricated cabinet units.
- B. Countertops.
- C. Hardware.

1.02 REFERENCE STANDARDS

- A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards; 2014.
- B. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards, U.S. Version 3.0; 2016.
- C. BHMA A156.9 - American National Standard for Cabinet Hardware; 2015.
- D. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
 - 1. Scale of Drawings: 1-1/2 inch to 1 foot, minimum.
 - 2. Provide the information required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS).
- C. Product Data: Provide data for hardware accessories.
- D. Samples: Submit actual samples of architectural cabinet construction, minimum 12 inches square, illustrating proposed cabinet, countertop, and shelf unit substrate and finish.

1.04 QUALITY ASSURANCE

- A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Protect units from moisture damage.

1.06 FIELD CONDITIONS

- A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

PART 2 PRODUCTS

2.01 CABINETS

- A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
- B. Plastic Laminate Cabinets:
 - 1. Finish - Exposed Exterior Surfaces: Decorative laminate.
 - 2. Finish - Exposed Interior Surfaces: Decorative laminate.
 - 3. Finish - Semi-Exposed Surfaces: Decorative laminate
 - 4. Finish - Concealed Surfaces: Manufacturer's option.
 - 5. Door and Drawer Front Edge Profiles: Square edge with thin applied band.
 - 6. Cabinet Style: Flush overlay.
 - 7. Cabinet Doors and Drawer Fronts: Flush style.
 - 8. Drawer Side Construction: Multiple-dovetailed.

2.02 WOOD-BASED COMPONENTS

- A. Wood fabricated from old growth timber is not permitted.

2.03 LAMINATE MATERIALS

- A. High-pressure Decorative Laminate Panel Products:
 - 1. Wilsonart:
 - a. Cabinets - Color: 8213K-28 Phantom Cocoa
 - b. Finish: Gloss Line Finish
 - c. Counters - Color: 4944-38 Casual Linen
 - d. Finish: Fine Velvet Finish
 - 2. Substitutions: No substitutions.
- B. Thermally Fused Laminate (TFL): Melamine resin, NEMA LD 3, Type VGL laminate panels.
- C. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.
- D. Provide specific types as indicated.
 - 1. Vertical Surfaces: VGS, 0.028 inch nominal thickness.

2.04 COUNTERTOPS

- A. Plastic Laminate Countertops: Medium density fiberboard substrate covered with HPDL, conventionally fabricated and self-edge banded.

2.05 ACCESSORIES

- A. Adhesive: Type recommended by fabricator to suit application.
- B. Plastic Edge Banding: Extruded PVC, convex shaped; smooth finish; self locking serrated tongue; of width to match component thickness.
 - 1. Color: As selected by Architect from manufacturer's standard range.
 - 2. Use at all exposed plywood edges.
 - 3. Use at all exposed shelf edges.
- C. Fasteners: Size and type to suit application.
- D. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.
- E. Concealed Joint Fasteners: Threaded steel.
- F. Grommets: Standard plastic, painted metal, or rubber grommets for cut-outs, in color to match adjacent surface.

2.06 HARDWARE

- A. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.
- B. Adjustable Shelf Supports: Standard side-mounted system using recessed metal shelf standards or multiple holes for pin supports and coordinated self rests, polished chrome finish, for nominal 1 inch spacing adjustments.
- C. Drawer and Door Pulls: "U" shaped wire pull, steel with chrome finish, 4 inch centers.
- D. Drawer Slides:
 - 1. Type: Full extension.
 - 2. Static Load Capacity: Commercial grade.
 - 3. Mounting: Side mounted.
 - 4. Stops: Integral type.
- E. Hinges: European style concealed self-closing type, steel with polished finish.

2.07 FABRICATION

- A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.

- C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
- D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.

2.08 SHOP FINISHING

- A. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:
 - 1. Transparent:
 - a. System - 2, Lacquer, Precatalyzed.
 - b. Sheen: Satin.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify adequacy of backing and support framing.
- B. Verify location and sizes of utility rough-in associated with work of this section.

3.02 INSTALLATION

- A. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.
- B. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- C. Use fixture attachments in concealed locations for wall mounted components.
- D. Use concealed joint fasteners to align and secure adjoining cabinet units.
- E. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.
- F. Secure cabinets to floor using appropriate angles and anchorages.
- G. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces.

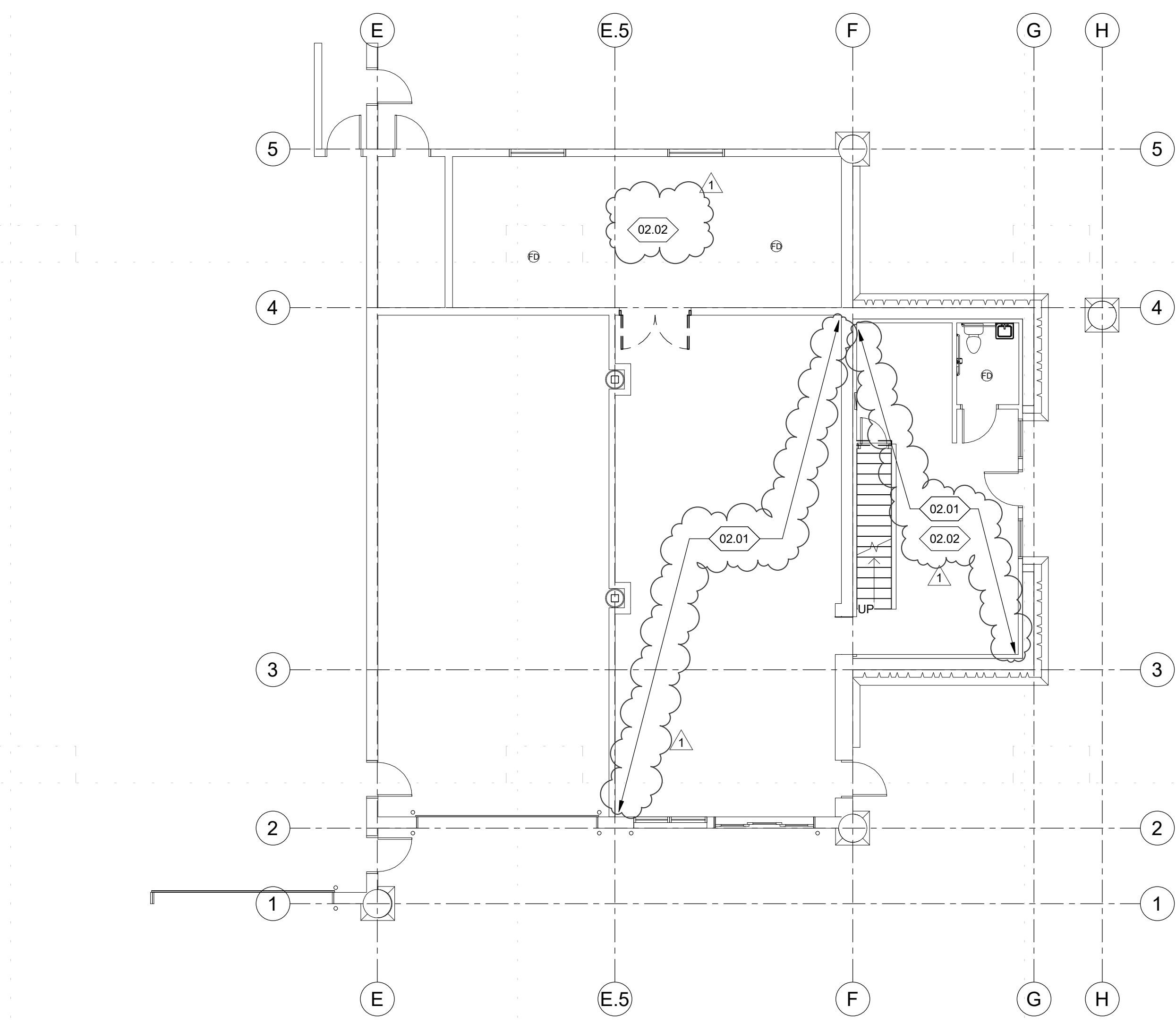
3.03 ADJUSTING

- A. Adjust moving or operating parts to function smoothly and correctly.

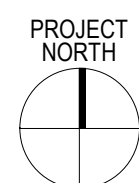
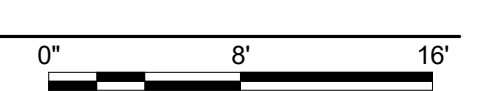
3.04 CLEANING

- A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

END OF SECTION



A3
DP101 DEMO MAIN LEVEL FLOOR PLAN
SCALE 1/8" = 1'-0"



GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS, AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE DOCUMENTED PRIOR TO COMMENCING DEMOLITION.
2. REFER TO MECHANICAL, ELECTRICAL, AND/OR PLUMBING DRAWINGS WHEN DEMOLITION REQUIRES REMOVAL OR TERMINATION OF SUCH UTILITIES.

KEY NOTES:

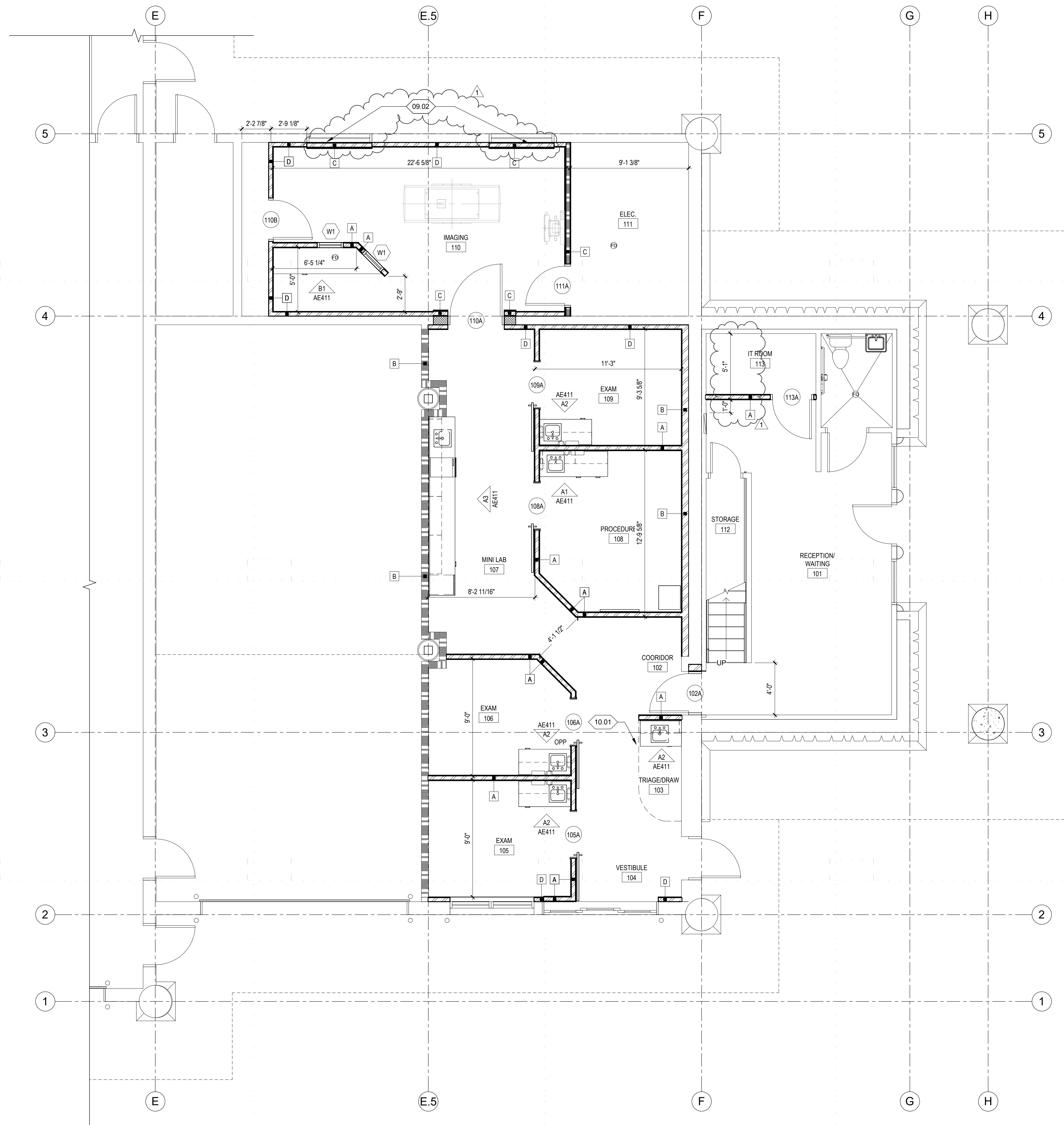
| Key Value | Keynote Text |
|-----------|--|
| 02.01 | DEMO ALL EXISTING CEILING WITHIN SPACE FOR ACCESS TO FLOOR JOISTS ABOVE AS NEEDED. |
| 02.02 | DEMO EXISTING FLOOR IN THIS AREA. PREP FLOOR FOR NEW MATERIAL. |

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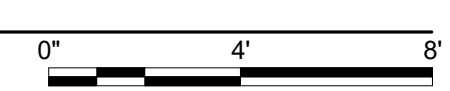
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| 07/31/2019 | | |
| DATE | REVISION | |
| 1 August 16, 2019 | Addendum One | |

**BUILDING
DEMOLITION
PLAN**

DP101



A4 FLOOR PLAN
AE101 SCALE 1/4" = 1'-0"



- GENERAL NOTES:**
- SEE SHEET G101 FOR ARCHITECTURAL LEGENDS, SYMBOLS, AND ABBREVIATIONS.
 - ALL DIMENSIONS ARE TO FACE OF STUD OR CMU IN NEW CONSTRUCTION, FACE OF FINISH IN EXISTING (U.N.O.).
 - ALL FLOOR FINISH CHANGES OCCUR AT CENTER LINE OF DOORS IN CLOSED POSITION U.N.O.
 - COORDINATE LOCATIONS OF ALL FLOOR AND ROOF DRAINS WITH PLUMBING PLANS.
 - SEE SHEET AE511 FOR WALL TYPES & DETAILS.
 - SEE SHEET AE601 FOR DOOR SCHEDULE.
 - ALL ANGLED WALLS ARE AT 45°, UNLESS NOTED OTHERWISE.
 - SEE E4/AE411 FOR TYPICAL TOILET ACCESSORIES INSTALLATION.

- KEY NOTES:**
- 09.02 BLACK OUT EXTERIOR SIDE OF WALL AGAINST WINDOW. WINDOWS WILL REMAIN FOR VISUAL APPEARANCE ON EXTERIOR OF BUILDING AS PER OWNER REQUEST.
 - 19.01 CURTAIN

- FLOOR PLAN LEGEND:**
- 1i WINDOW TAG, SEE WINDOW TYPES SHEET AE601
 - 101A DOOR TAG, SEE DOOR SCHEDULE SHEET AE601
 - ROOM NAME ROOM TAG, SEE FINISH SCHEDULE AE121
 - 1t WALL TYPE TAG, SEE SHEET AE511

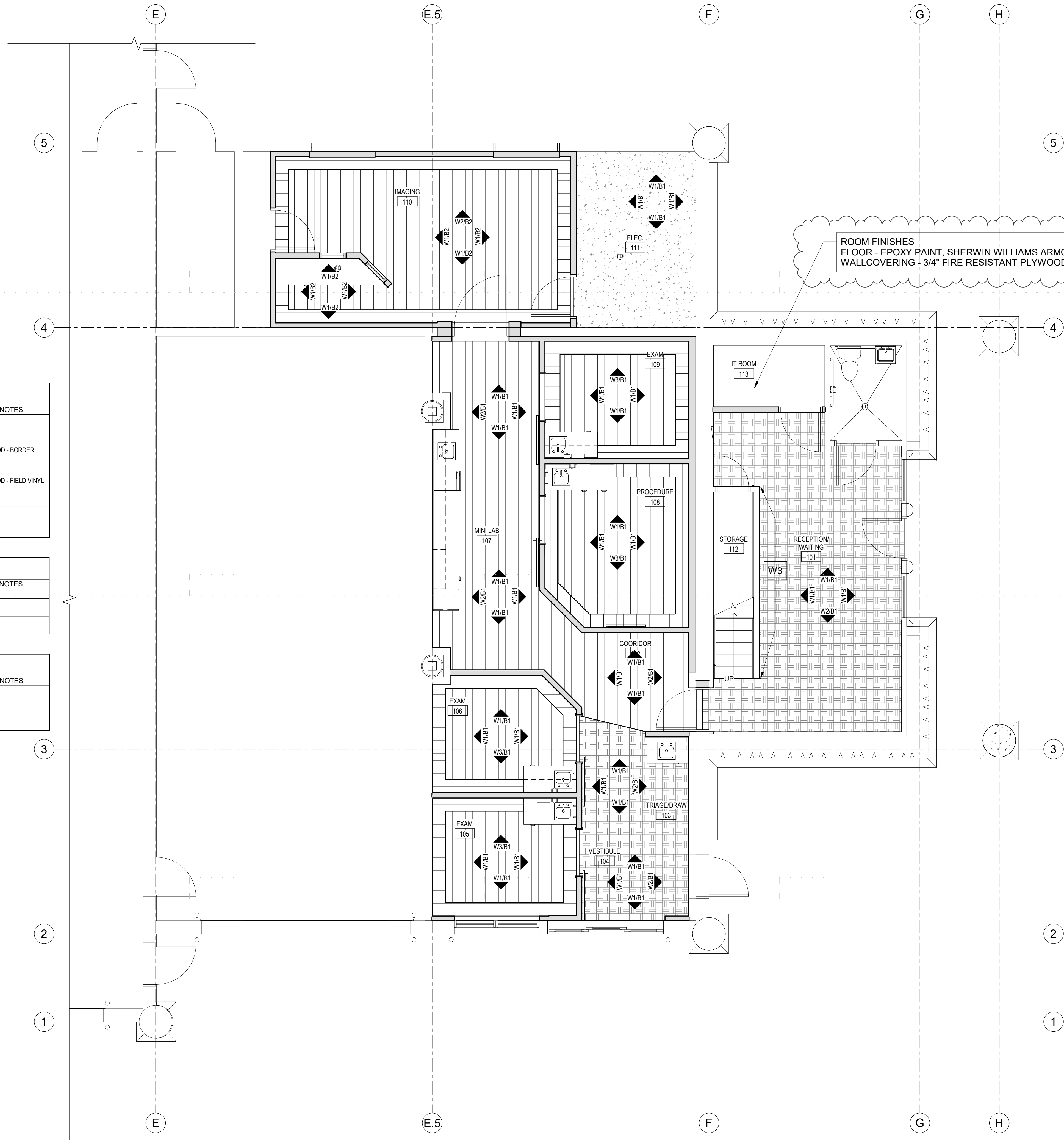
- INTERIOR WALL LEGEND:**
- WALL ASSEMBLY AS SCHEDULED

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| PERMIT/BID DOCUMENTS | |
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MAIN LEVEL FLOOR PLAN

AE101



| FLOOR FINISH LEGEND | | | | | | |
|---------------------|-----------|-----------------|-----------------------|-----------------------|-----------------|-------------------------|
| TYPE | FILL | DESCRIPTION | MANUFACTURER | PRODUCT | COLOR | NOTES |
| F1 | [Pattern] | WALK OFF MAT | SHAW CONTRACT | WELCOME II TILE 5T031 | CHARCOAL 31519 | |
| F2 | [Pattern] | VINYL | MANNINGTON COMMERCIAL | BIOSPEC | BEDROCK SR67369 | WELD ROD - BORDER VINYL |
| F3 | [Pattern] | VINYL | MANNINGTON COMMERCIAL | BIOSPEC | FLAX SR67361 | WELD ROD - FIELD VINYL |
| F4 | [Pattern] | SEALED CONCRETE | SEALED CONCRETE | | | |

| BASE FINISH LEGEND | | | | | | |
|--------------------|-----------|----------------------------|-----------------------|-----------------------|-----------|-------|
| TYPE | FILL | DESCRIPTION | MANUFACTURER | PRODUCT | COLOR | NOTES |
| B1 | [Pattern] | RUBBER BASE | JOHNSONITE | THERMOSET RUBBER BASE | MOON ROCK | |
| B2 | [Pattern] | INTEGRAL COVED SHEET VINYL | MANNINGTON COMMERCIAL | BIOSPEC | BEDROCK | |
| B3 | [Pattern] | INTEGRAL COVED SHEET VINYL | MANNINGTON COMMERCIAL | BIOSPEC | FLAX | |

| WALL FINISH LEGEND | | | | | | |
|--------------------|-----------|-------------|------------------|---------|----------------------|-------|
| TYPE | FILL | DESCRIPTION | MANUFACTURER | PRODUCT | COLOR | NOTES |
| W1 | [Pattern] | FIELD | SHERWIN WILLIAMS | | PURE WHITE SW7005 | |
| W2 | [Pattern] | ACCENT | SHERWIN WILLIAMS | | WORLDLY GRAY SW 7043 | |
| W3 | [Pattern] | ACCENT | SHERWIN WILLIAMS | | DISTANCE SW 7082 | |

GENERAL NOTES:

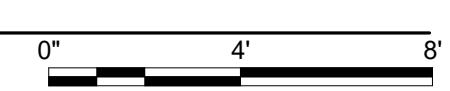
ROOM FINISHES
 FLOOR - EPOXY PAINT, SHERWIN WILLIAMS ARMORSEAL, 8100 GLOSS LT. GRAY
 WALLCOVERING - 3/4" FIRE RESISTANT PLYWOOD

ROOM FINISH SCHEDULE NOTES:

- 1. SEE DETAIL

KEY NOTES:

A4 MAIN FLOOR FINISH PLAN
 AE121 SCALE 1/4" = 1'-0"

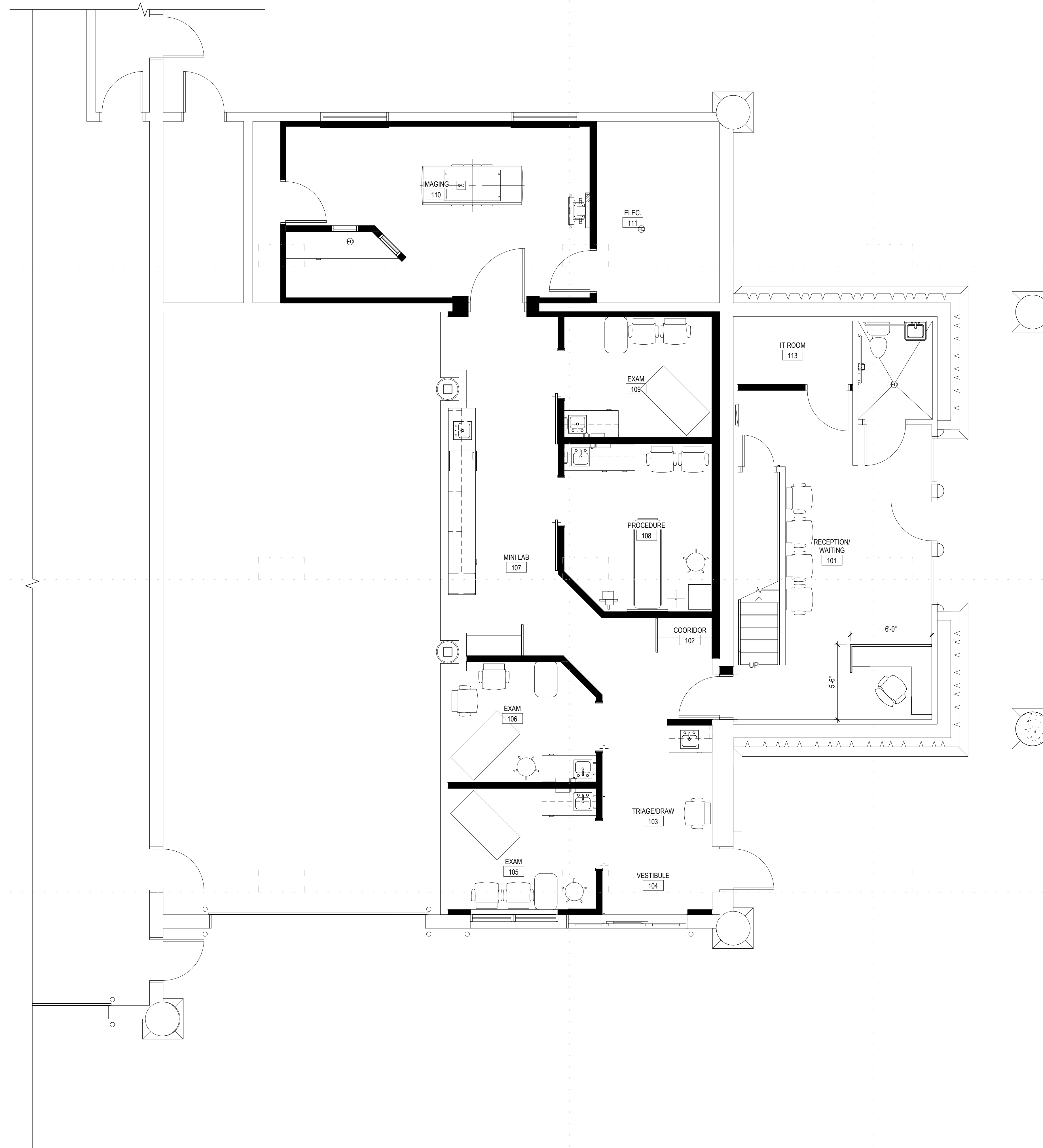


PROJECT #: 19028

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FINISH PLAN

AE121



GENERAL NOTES:

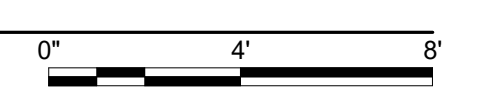
1. ALL FURNITURE SHOWN WILL BE PROVIDED BY OWNER. PLAN FOR ELECTRICAL COORDINATION ONLY.

KEY NOTES:

PROJECT #: 19028

| PERMIT/BID DOCUMENTS | |
|----------------------|--------------|
| DATE | REVISION |
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| 1 August 16, 2019 | Addendum One |

A4 FURNISHINGS PLAN
 SCALE 1/4" = 1'-0"



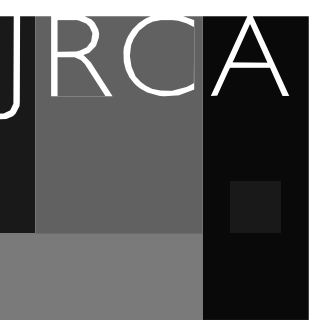
FURNISHINGS PLAN

AE131

GENERAL NOTES:

1 -

KEY NOTES:



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INTERMOUNTAIN SNOWBASIN CLINIC

3925 SNOW BASIN RD
HUNTSVILLE, UTAH 84317

PROJECT #: 19028

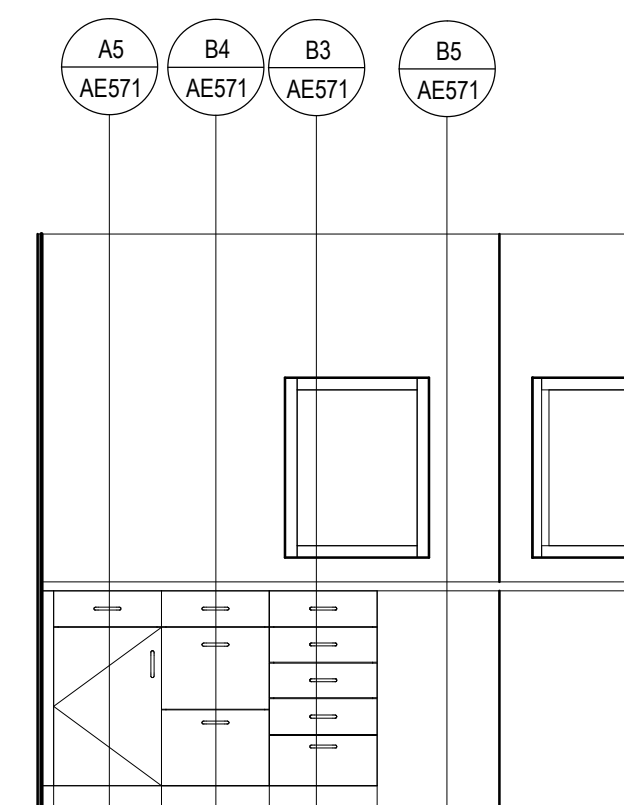
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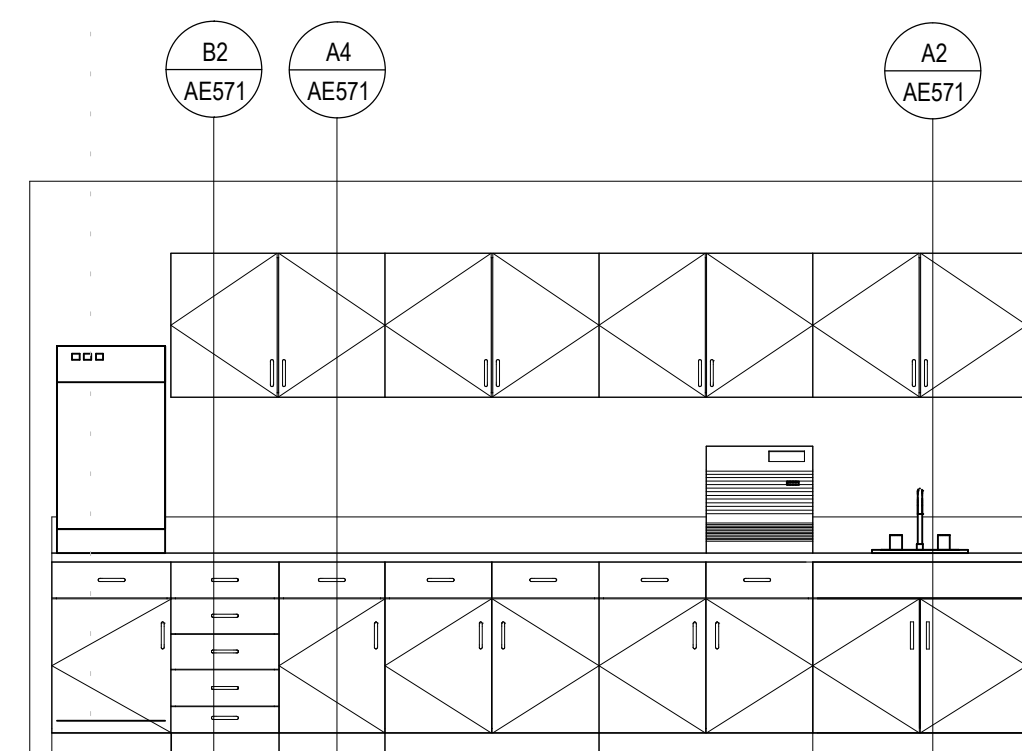
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INTERIOR ELEVATIONS

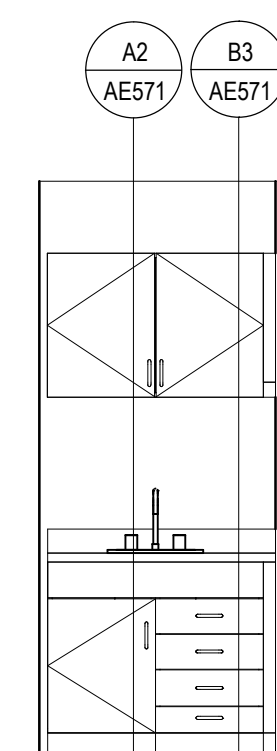
AE411



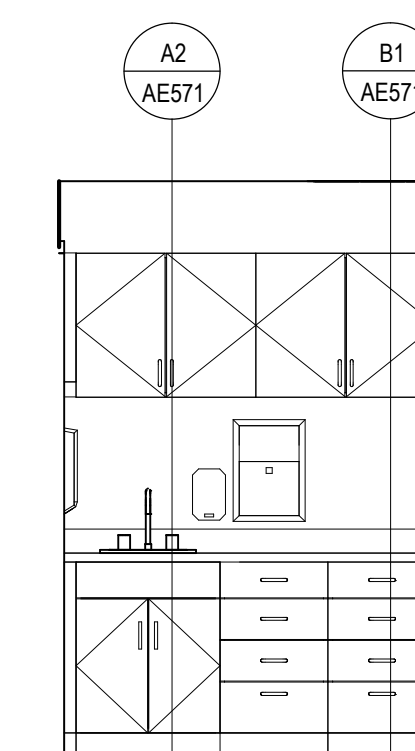
B1
AE411
INTERIOR ELEVATION
SCALE 3/8" = 1'-0"



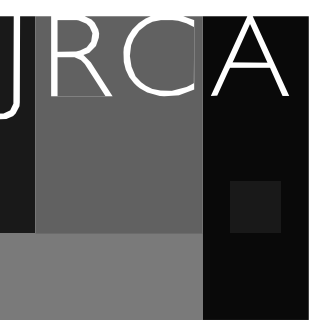
A3
AE411
Elevation 7 - a
SCALE 3/8" = 1'-0"



A2
AE411
INTERIOR ELEVATION
SCALE 3/8" = 1'-0"



A1
AE411
INTERIOR ELEVATION
SCALE 3/8" = 1'-0"



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INTERMOUNTAIN SNOWBASIN CLINIC

3925 SNOW BASIN RD
 HUNTSVILLE, UTAH 84317

PROJECT #: 19028

| PERMIT/BID DOCUMENTS | |
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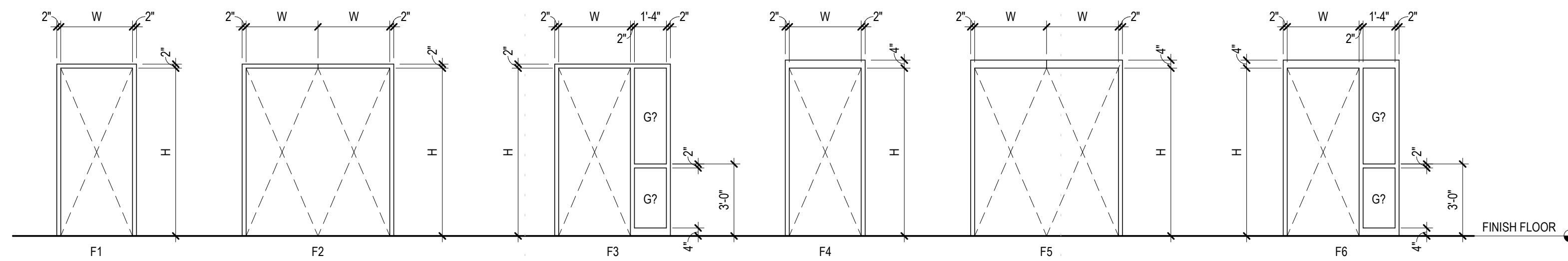
DOOR & FRAME
 TYPES /
 SCHEDULES

AE601

| DOOR | SIZE | | DOOR | | | | FRAME | | | DETAILS (AE591) | | ASSEMBLY FIRE RATING | NOTES |
|------|-------|--------|------|------|--------|---------|-------|------|--------|-----------------|------|----------------------|---------------------|
| | WIDTH | HEIGHT | TYPE | MATL | FINISH | GLAZING | TYPE | MATL | FINISH | HEAD | JAMB | | |
| 102A | 3'-0" | 7'-0" | D2 | WD | DF1 | | F1 | HM | FF1 | A2 | A1 | | |
| 105A | 3'-6" | 7'-0" | | WD | DF1 | | | | | | | | SLIDING ASSEMBLY |
| 106A | 3'-6" | 7'-0" | | WD | DF1 | | | | | | | | SLIDING ASSEMBLY |
| 108A | 3'-6" | 7'-0" | | WD | DF1 | | | | | | | | SLIDING ASSEMBLY |
| 109A | 3'-6" | 7'-0" | | WD | DF1 | | | | | | | | SLIDING ASSEMBLY |
| 109A | 3'-6" | 7'-0" | | WD | DF1 | | | | | | | | LEAD LINED ASSEMBLY |
| 110B | 3'-0" | 7'-0" | D1 | WD | DF1 | | F1 | HM | FF1 | A2 | A1 | | |
| 111A | 3'-0" | 7'-0" | D1 | WD | DF1 | | F1 | HM | FF1 | A2 | A1 | | |
| 113A | 3'-0" | 7'-0" | D2 | WD | DF1 | | F1 | HM | FF1 | A2 | A1 | | |



DOOR TYPES



DOOR FRAME TYPES

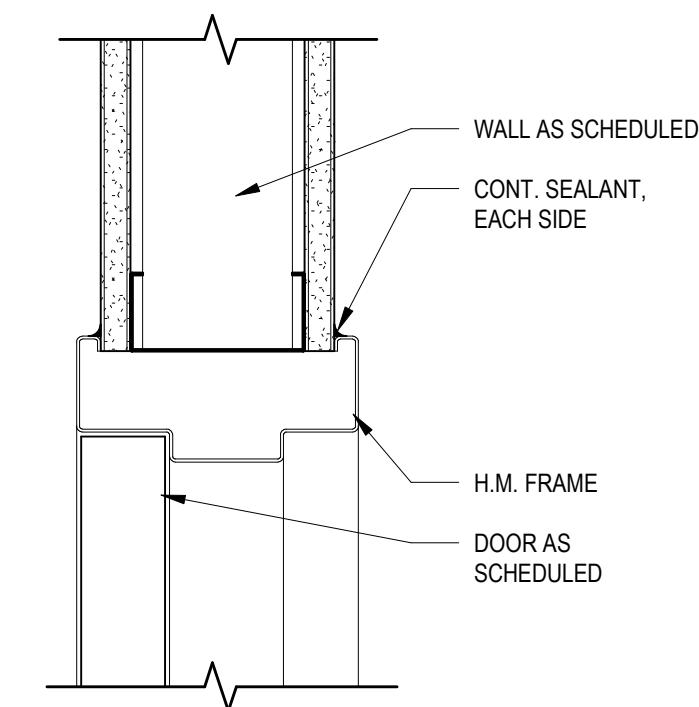
| FRAME FINISH LEGEND | |
|---------------------|--------------|
| FF1 | PAINTED H.M. |

| DOOR FINISH LEGEND | |
|--------------------|---|
| DF1 | WOOD - OSHKOSH, SLICED CHERRY, FINISH: AWI TR6: 600, COLOR: 102 |
| DF2 | PAINTED H.M. |

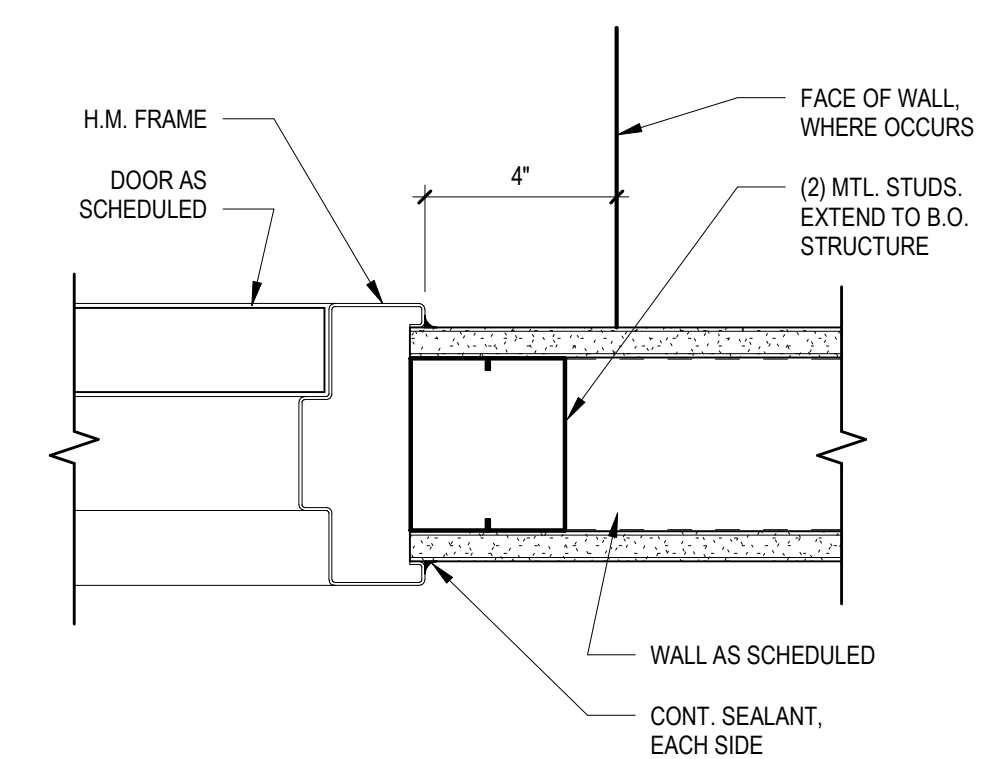
| DOOR MATERIAL LEGEND | |
|----------------------|-------------------|
| WD | WOOD - SOLID CORE |
| HM | HOLLOW METAL |
| AL | ALUMINUM |
| GZ | GLAZING |
| FRP | FIBERGLASS |

DOOR SCHEDULE NOTES:

1



B1 9-01 INTERIOR H.M. DOOR HEAD
 AE601 SCALE 3" = 1'-0"



A1 9-03 INTERIOR H.M. DOOR JAMB
 AE601 SCALE 3" = 1'-0"



MECHANICAL ADDENDUM 1

DATE: August 16, 2019
PROJECT NO: 19328
PROJECT: Intermountain Snowbasin Imaging

SPECIFICATIONS

SECTION - 230100

1. Add on page 12 under Factory Start Up:
Dedicated Outside Air Unit

SECTION - 230150

1. Add on page 8 after VRF Fan Coil:
Dedicated Outside Air

Amp readings for each fan coil

Supply air CFM for each fan coil

Outside air CFM for each fan coil

Make pressure drop across each fan coil

Record and report all of the above fan coil information and submit it with the commissioning report

SECTION - 230700

1. Add on page 1 under Submittals:
Dedicated Outside Air Unit
Electric Heating Coil

2. Add on page 2 after Electric Heaters:
Dedicated Outside Air Unit:

Fan coil heating units of the type, arrangement, and size shown on drawings shall be furnished and installed. Motors shall be permanent split capacitor units with overload protectors. Motor and fan bearings shall be permanently lubricated type.

Disposable filters with permanent metal holding frames shall be provided for the fan coil units.

Cabinets shall be galvanized steel with duct connections where concealed above ceilings.

Electric-Resistance Heating Coils: Nickel-chromium heating wire, free of expansion noise and hum, mounted in ceramic inserts in a galvanized-steel housing; with fuses in terminal box for overcurrent protection and limit controls for high-temperature protection. Terminate elements in stainless-steel machine-staked terminals secured with stainless-steel hardware. Electric heating coils are factory-wired

PRINCIPALS

Mechanical: Kim P. Harris, PE | Richard G. Reeder, PE, LEED AP BD+C | Byron R. Torgersen, PE | Jeffrey S. Watkins, PE | Donald K. Bradshaw, PE, CPD | Wade W. Bennion, PE, LEED AP | Steven T. Shepherd, PE, LEED AP | Benjamin L. Davis, PE | Ladd M. Birch, PE | Michael S. Mooney | Brad W. Rosenhan, PE | Ray D. Vernon, PE, LEED AP BD+C | Jed H. Lyman, PE | Scot E. Muir, PE, LEED AP BD+C | J. Howard Van Boerum, PE, FACEC (emeritus) | John D. Frank, PE (emeritus)

Electrical: Ryan C. Van Voast, PE

Civil and Fire Protection: David P. Baranowski, PE

and installed one or two state electric heating coil with over-temperature protection and magnetic contactors. Mercury contactors are not allowed. Secondary manual reset backup protection provided.

Fans shall double width, double inlet centrifugal type, direct driven.

Fan coil units shall be installed as shown on the drawings. Capacities and types are given on the drawings. Fan coil units shall be Trane, Carrier or York.

Electric Heating Coil:

Electric heating coil designed for mounting in ductwork. Nickel-chromium heating wire, free of expansion noise and hum, mounted in ceramic inserts in a galvanized-steel housing; with fuses in terminal box for overcurrent protection and limit controls for high-temperature protection. Terminate elements in stainless-steel machine-staked terminals secured with stainless-steel hardware. Electric heating coils are factory-wired and installed one or two state electric heating coil with over-temperature protection and magnetic contactors. Mercury contactors are not allowed. Secondary manual reset backup protection provided.

Electric heating coils shall be Tutco or Heatrex.

SECTION - 230900

1. Add on page 1 under Scope of Work:
Dedicated Outside Air Unit
Electric Heating Coil

SECTION - 230993

1. Add on page 3 before Dial-out:
Dedicated Outside Air Unit:

Based on building schedule, the control system shall enable the DOAS unit to operate during normally occupied hours, and shall remain off during un-occupied or morning warm-up/cool-down operation.

The control system shall monitor fan status, electric heat status and discharge air temperature and display this data on the graphical user interface. Should temperature drop below 50°F while heating is enabled, the system will generate an alarm in the system and display the alarm on the space graphic.

Provide discharge air temperature sensor in ductwork downstream of DOAS. Discharge air temperature sensor shall report to the ATC system and be graphically displayed. Unit operation shall be displayed at the ATC system graphics. Temperature control initial set point 72°F.

DRAWINGS

SHEET - MH101

1. Refer to attached for modifications to CFMs and duct sizes.

SHEET - MH501

1. Refer to attached for modifications and addition of details.

SHEET - MH601

1. Refer to attached for modifications to the Electric Heating Coil Schedule.
2. Refer to attached for modifications to the Dedicated Outside Air Unit Schedule.
3. Refer to attached for modifications to the VRF Outdoor Unit Schedule – Air Cooled.

SHEET - PL100

1. Refer to attached for modifications to notes and pipe sizes.

SHEET - PL101

1. Refer to attached for modifications to notes and pipe sizes.

WALK-THRU QUESTIONS / CLARIFICATIONS

1. Do we need a dog house and raised stand to protect the condenser from blowing ice and snow.
RESPONSE: *Please refer to the notes on the VRF Outdoor Unit Schedule – Air Cooled on MH601. Please refer to 12/MH501 for the outdoor unit mounting.*
2. The drawing just has the line set for the lobby HVAC head running across the ceiling. Do we want this exposed or in a raceway of some sort.
RESPONSE: *We take no exception to this being exposed.*
3. Can the lobby HVAC unit be relocated to the south wall so that it will have a long throw posed to short one.
RESPONSE: *Please refer to MH101 in Addendum 1.*
4. We need to verify the location of the outside air fan. Moving the fan further down the wall was discussed in the walk through.
RESPONSE: *Please refer to MH101 in Addendum 1.*
5. Can we get a spec for the HVAC in the ski patrol area.
RESPONSE: *Please refer to MH101 keyed note 4.*

PRIOR APPROVALS

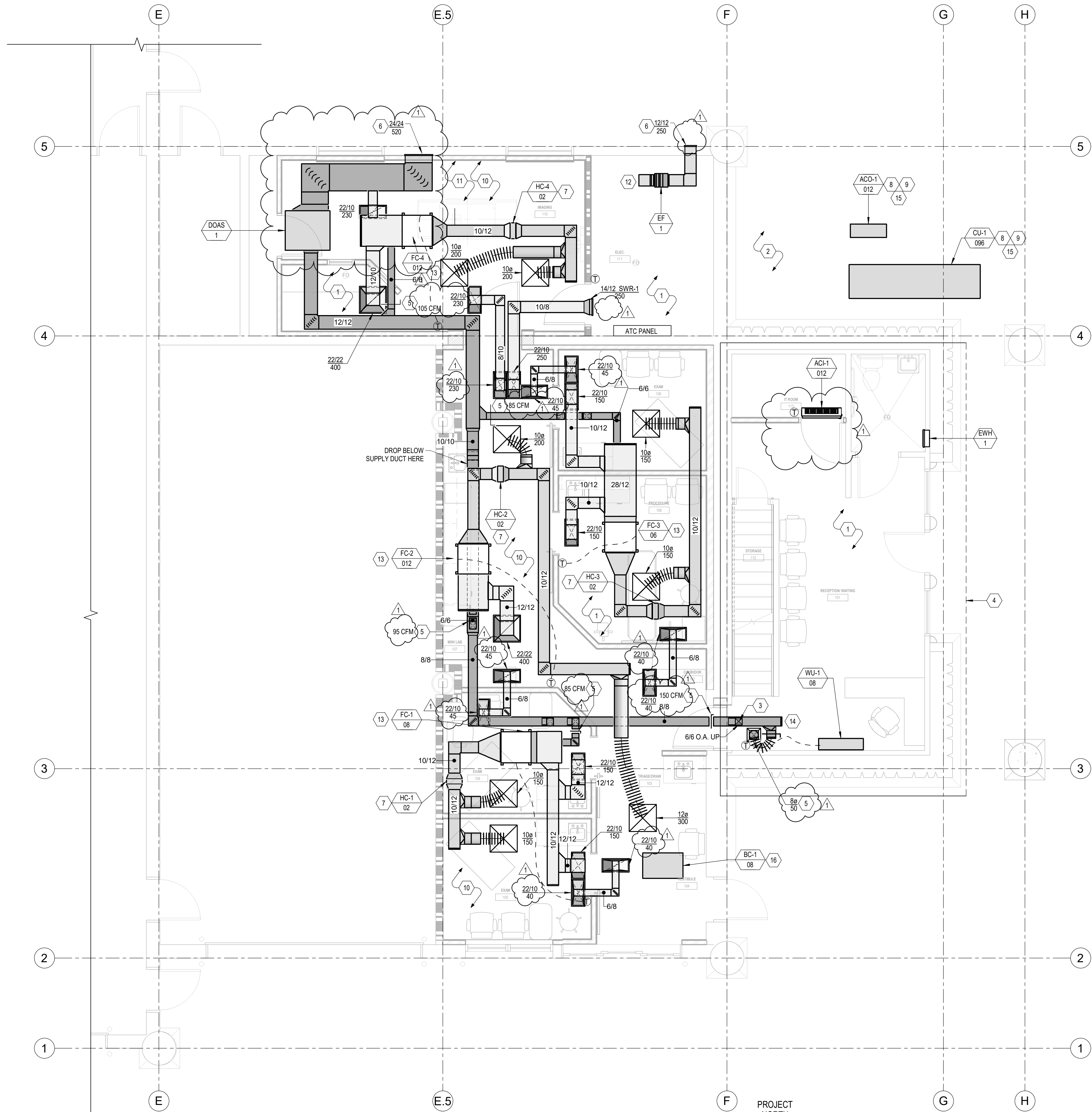
The following manufacturers, trade names and products are allowed to bid on a name brand only basis with the provision that they completely satisfy all and every requirement of the drawings, specifications and all addenda shall conform to the design, quality and standards specified, established and required for the complete and satisfactory installation and performance of the building and all its respective parts.

Item

Water Heater
Diffusers, Registers, and Grilles
Louvers
High Efficiency Branch Take-Off Fittings
Volume Dampers
Flexible Ductwork
Damper Regulators

Manufacturer

Chronmite
Carnes, Krueger
Cesco, United Enertech
Air-Rite
Air-Rite, United Enertech
JPL, Thermaflex
United Enertech



1 MAIN LEVEL MECHANICAL PLAN
 SCALE: 1/4" = 1'-0"
 PROJECT NORTH

KEYED NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCT SIZES, PIPE SIZES AND LOCATIONS PRIOR TO BEGINNING ANY WORK. IF ANY DISCREPANCIES, ERRORS, CONFLICTS OR CONCERNS ARE UNCOVERED BY THE CONTRACTORS THEY SHALL BRING THEM TO THE OWNER/ENGINEER'S ATTENTION PRIOR TO ANY WORK PROGRESSING FOR RESOLUTION.
2. OUTDOOR UNITS TO MAINTAIN 4-FEET CLEAR OF ELECTRICAL TRANSFORMER.
3. ROUTE OUTSIDE AIR DUCT UP TO SKI PATROL OFFICE ABOVE. ROUTE DUCT TO BELOW CEILING ABOVE AT HIGHEST CEILING SLOPE AND TERMINATE WITH ELBOW AND 6X6 DUCT MOUNTED GRILLE. BALANCE TO 100 CFM.
4. LOCATE WU-2012 ON WALL CENTERED ABOVE WINDOW IN SKI PATROL OFFICE. COORDINATE THERMOSTAT LOCATION WITH SNOWBASIN.
5. BALANCE OUTSIDE AIR CFM AS INDICATED. LOCATE IN ACCESSIBLE LOCATION. COORDINATE WITH ARCHITECT. (TYPICAL)
6. LOCATE TOP OF LOUVER TO MATCH EXISTING LOUVER HEIGHT ON ADJACENT WALL. COORDINATE LOCATION WITH ARCHITECT. MAINTAIN MINIMUM OF 10'-0" BETWEEN INTAKE AND RELIEF LOUVERS.
7. MAINTAIN 4'-0" CLEARANCE FROM FAN COIL UNIT DISCHARGE TO ELECTRIC COIL PER NATIONAL ELECTRICAL CODE.
 MAINTAIN SNOW REMOVAL FROM REQUIRED CLEARANCE AREAS.
9. LOCATE UNIT TO BE CLEAR OF ROOF SNOW FALL LINE.
10. BRANCH DUCT AND DIFFUSER, GRILLE OR REGISTER NECK SIZE SHALL BE THE SAME SIZE, UNLESS OTHERWISE NOTED. (TYP)
11. COORDINATE CEILING SPACE WITH REQUIRED CONDUIT POP-UP RAY MACHINE.
12. ORIENT ELBOW OPENING TOWARD STRUCTURE.
13. LOCATE PAN COIL UNIT ABOVE CEILING TO ALLOW FOR 18-INCH X 18-INCH REQUIRED ACCESS. VERIFY WITH MANUFACTURER. (TYPICAL)
14. COORDINATE DUCTWORK BETWEEN FLOOR JOISTS AT THIS APPROXIMATE LOCATION.
15. COORDINATE REFRIGERANT PIPING WITH OWNER, TENANT AND ARCHITECT TO MINIMIZE IMPACT TO EXTERIOR AT PENETRATION AT BUILDING.
16. MAINTAIN BRANCH CONTROLLER CLEARANCES, VERIFY WITH MANUFACTURER.

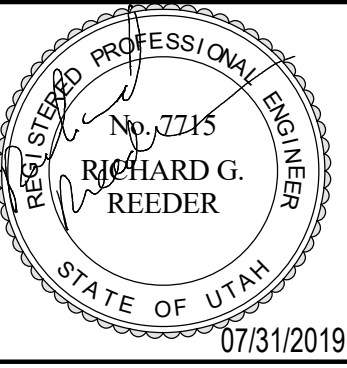
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 VBFA Project Number: 18045

INTERMOUNTAIN SNOWBASIN CLINIC
 3925 SNOW BASIN RD
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PROJECT #: 19028

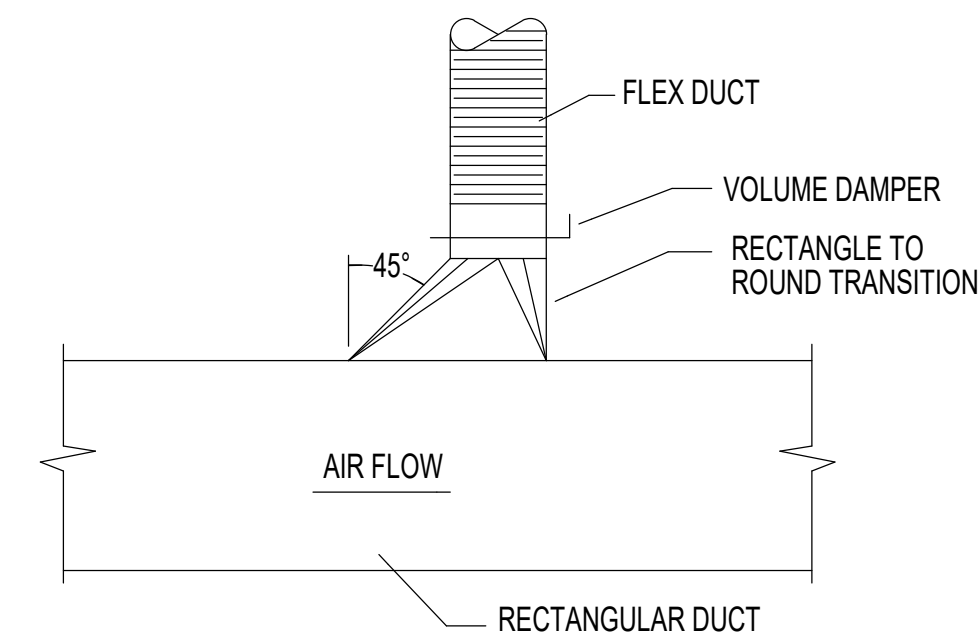
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| 1 | 8/16/19 Addendum 1 |



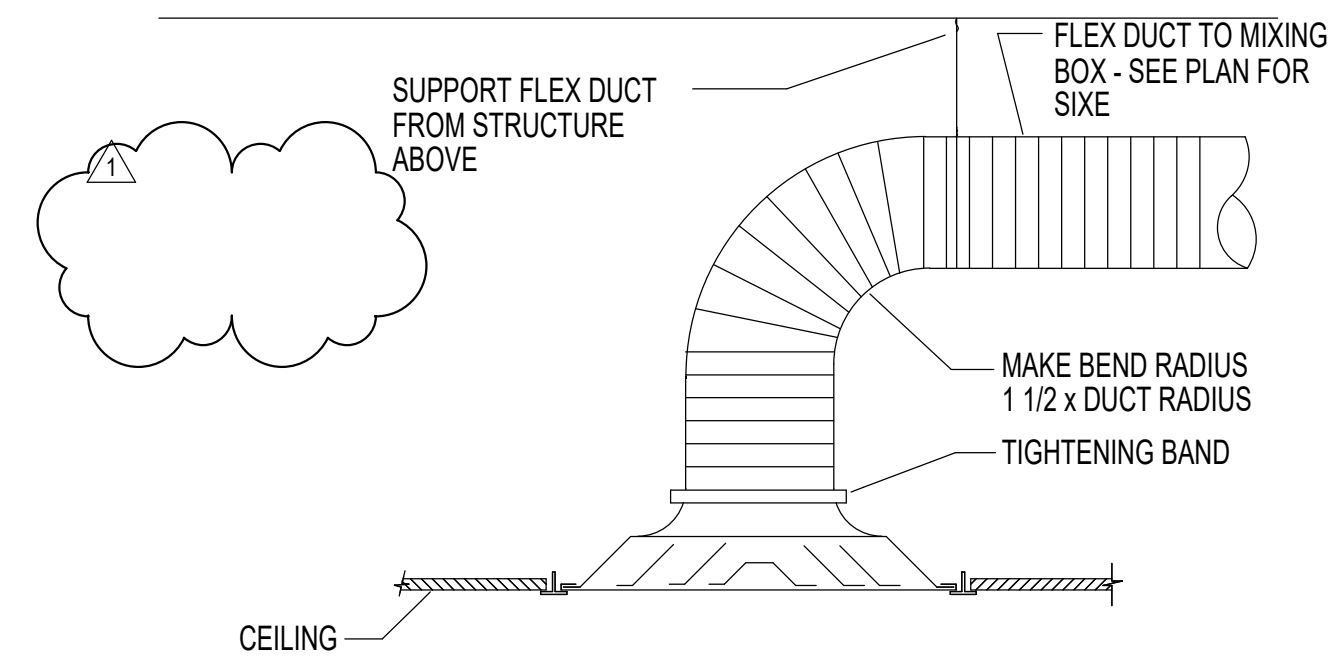
MAIN LEVEL MECHANICAL PLAN

MH101

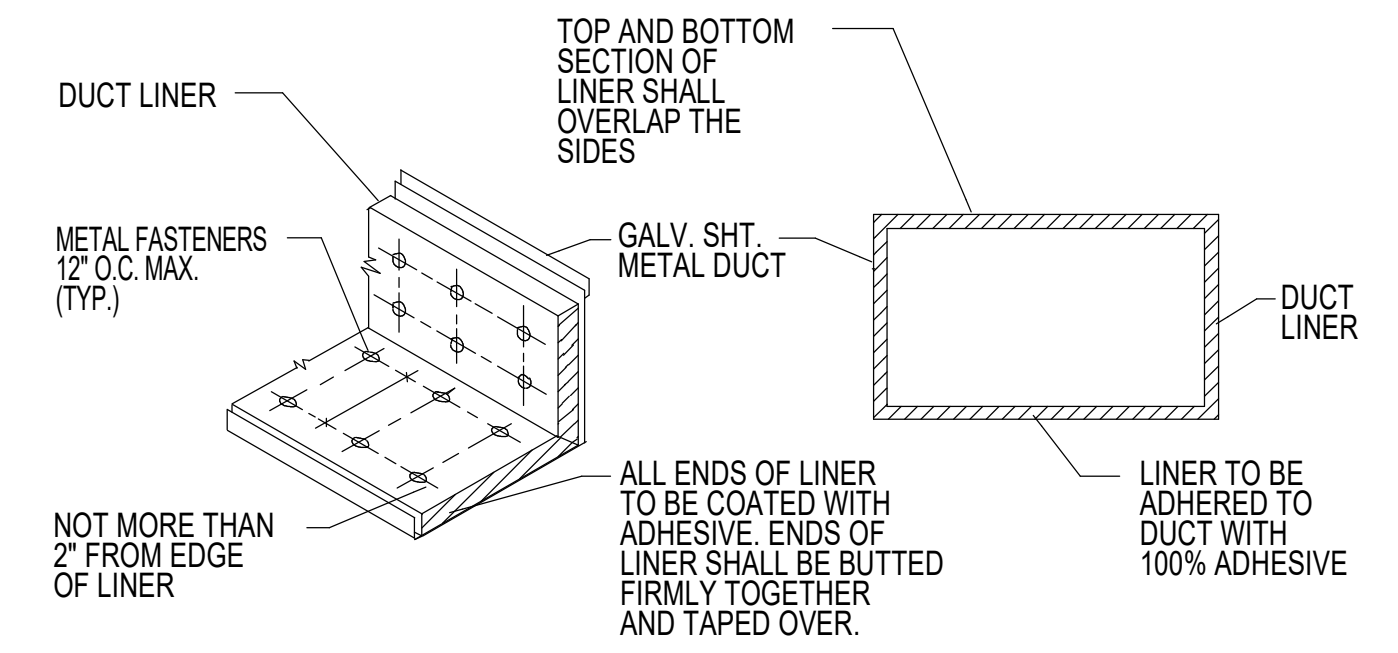
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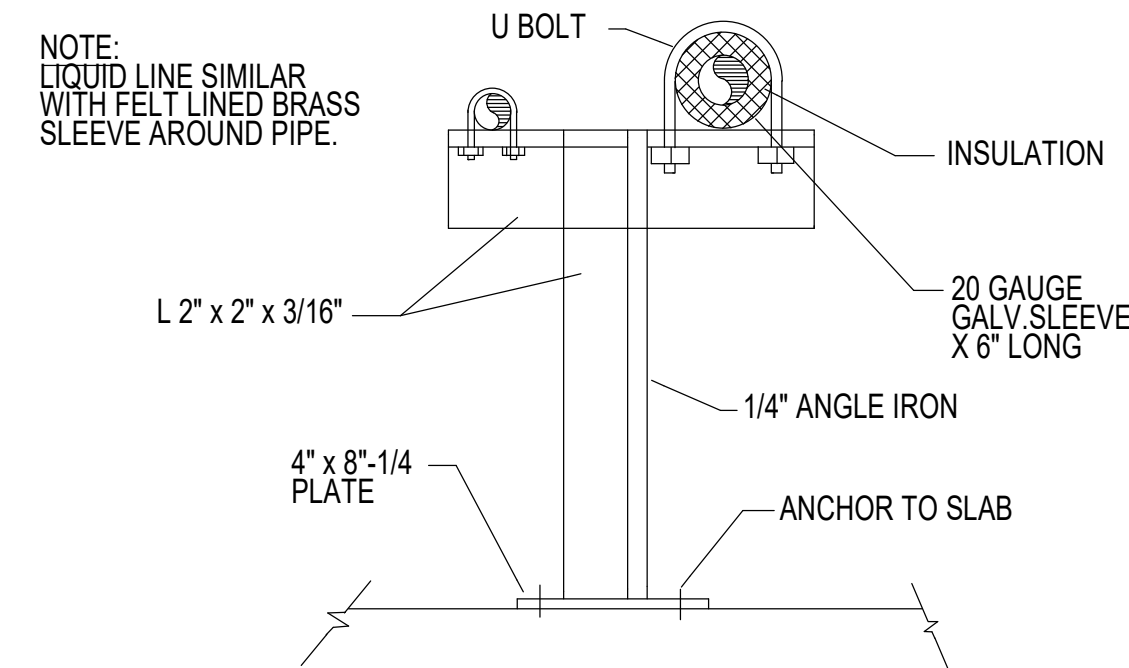
9 HIGH EFFICIENCY TAKE-OFF DETAIL
NO SCALE



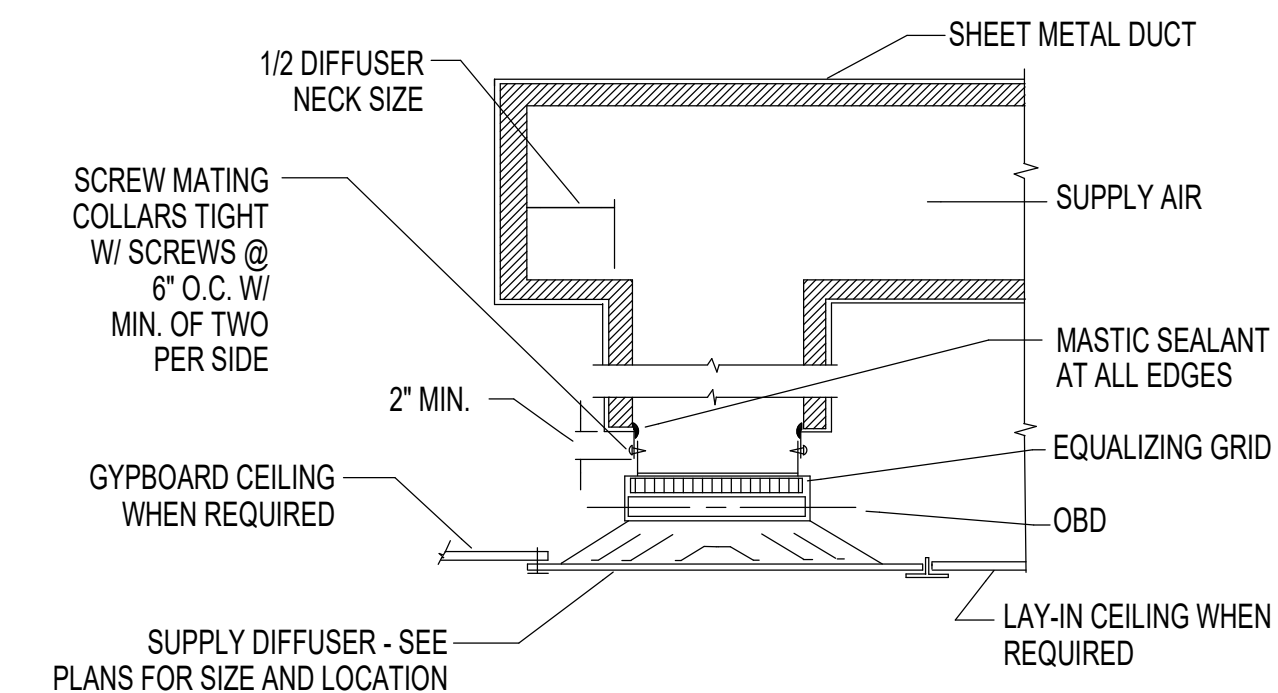
5 DIFFUSER CONNECTION DETAIL
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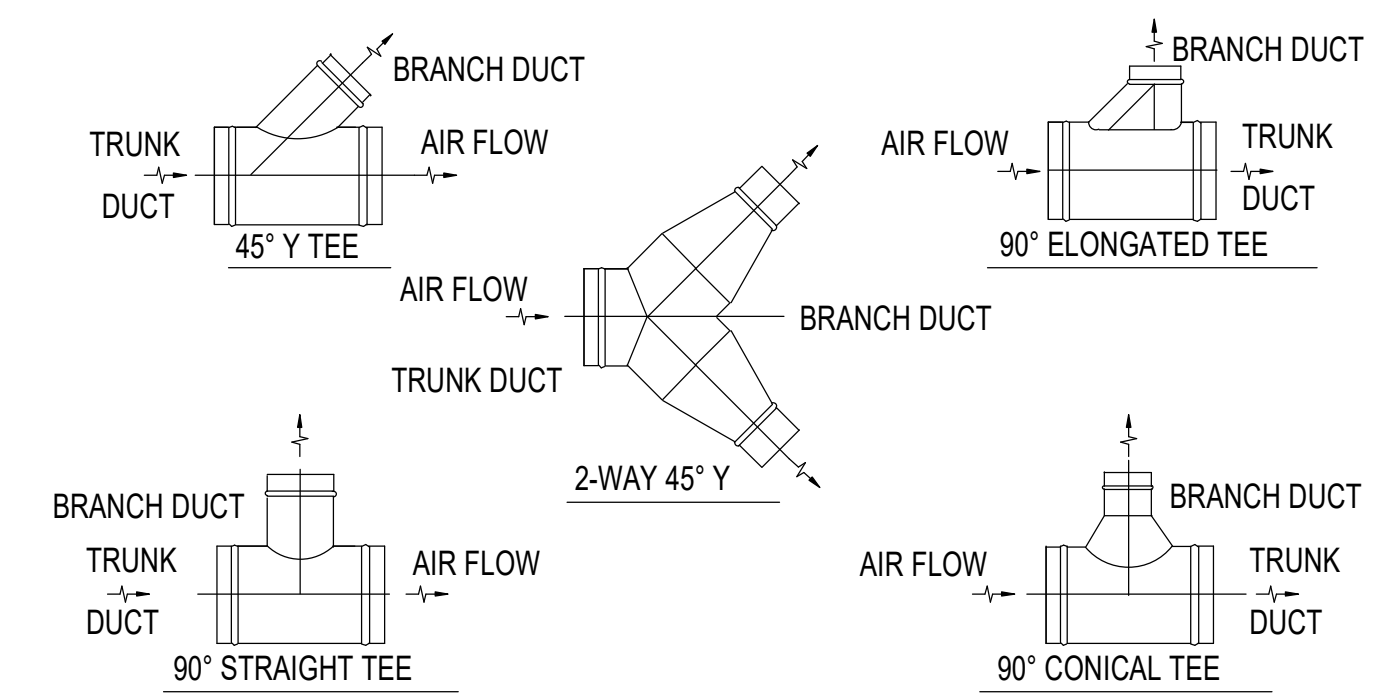
1 DUCT LINER DETAIL
NO SCALE



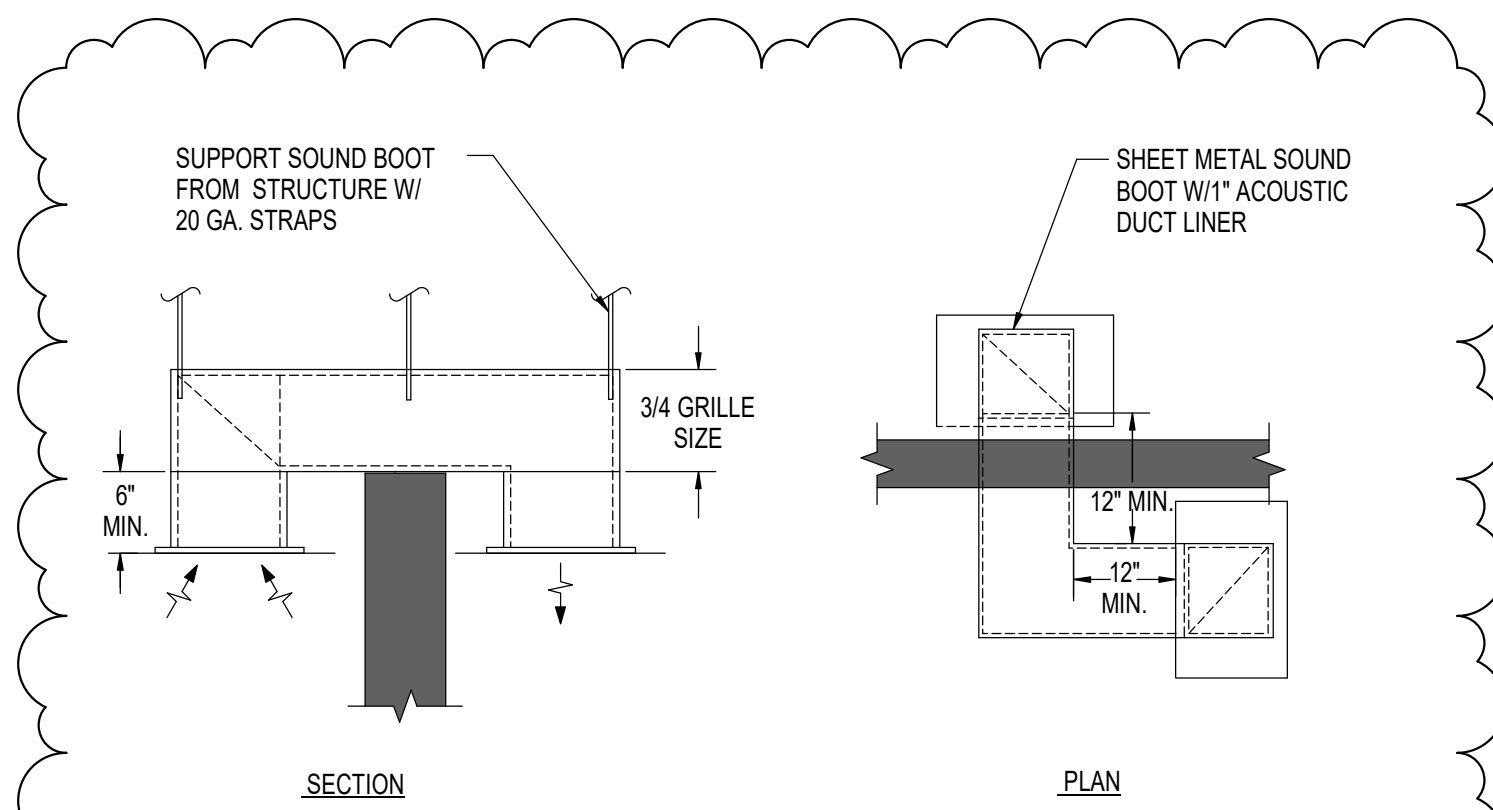
10 EXTERIOR REFRIGERANT PIPE SUPPORT
NO SCALE



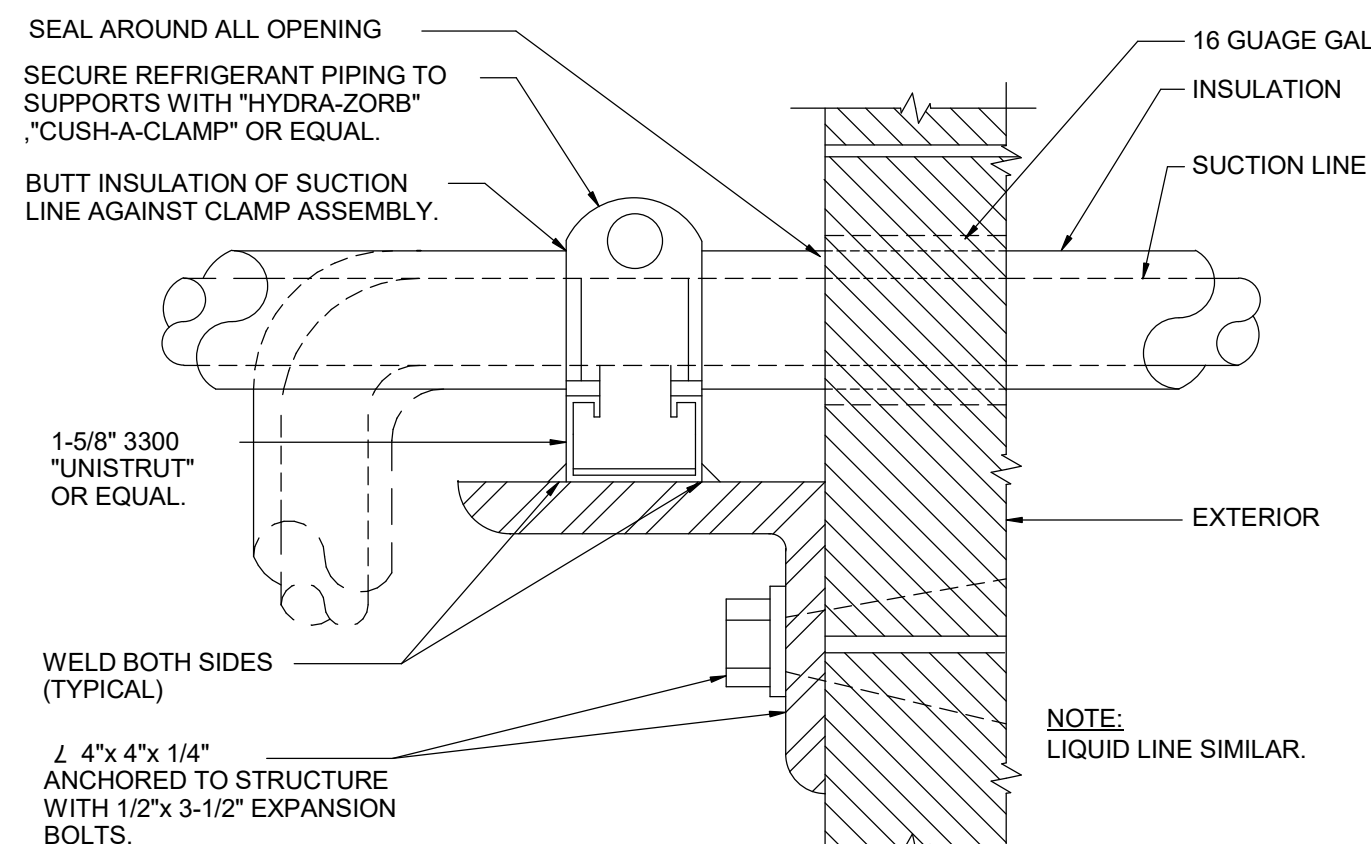
6 TYPICAL CEILING DIFFUSER DETAIL
NO SCALE



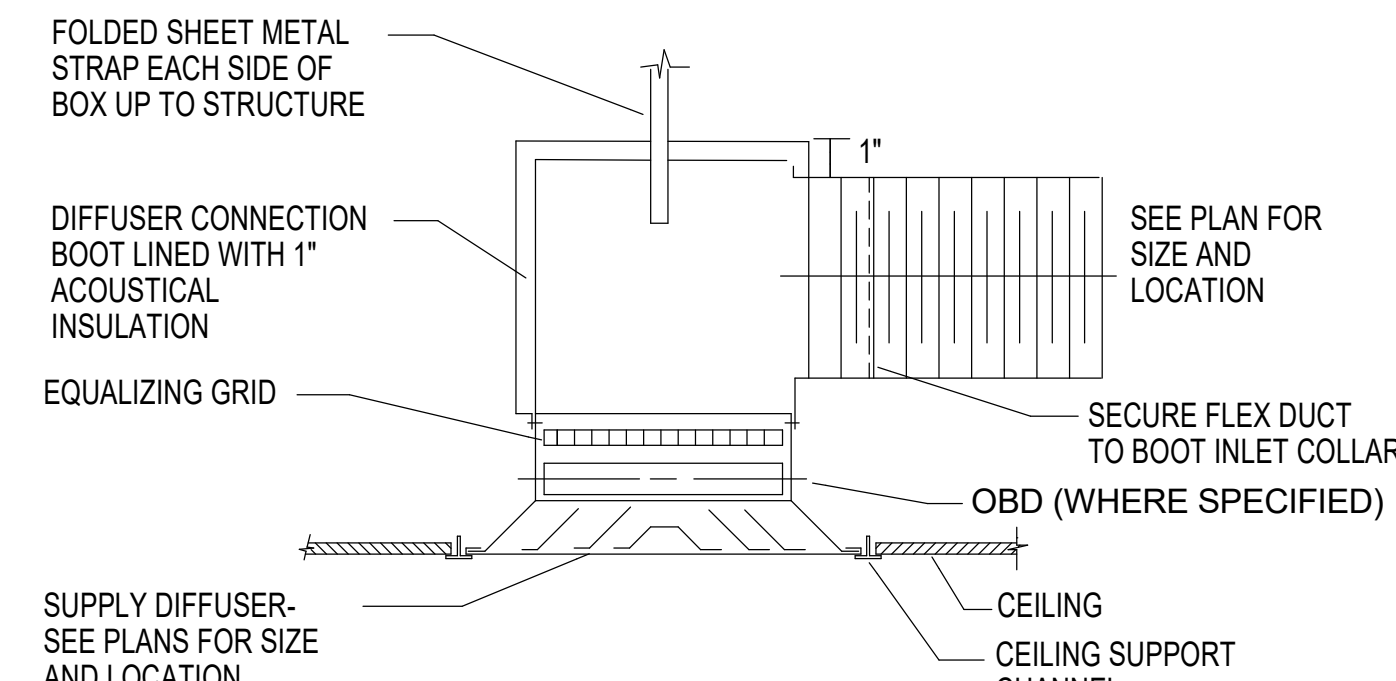
2 ROUND DUCT BRANCH TAKE-OFF DETAILS
NO SCALE



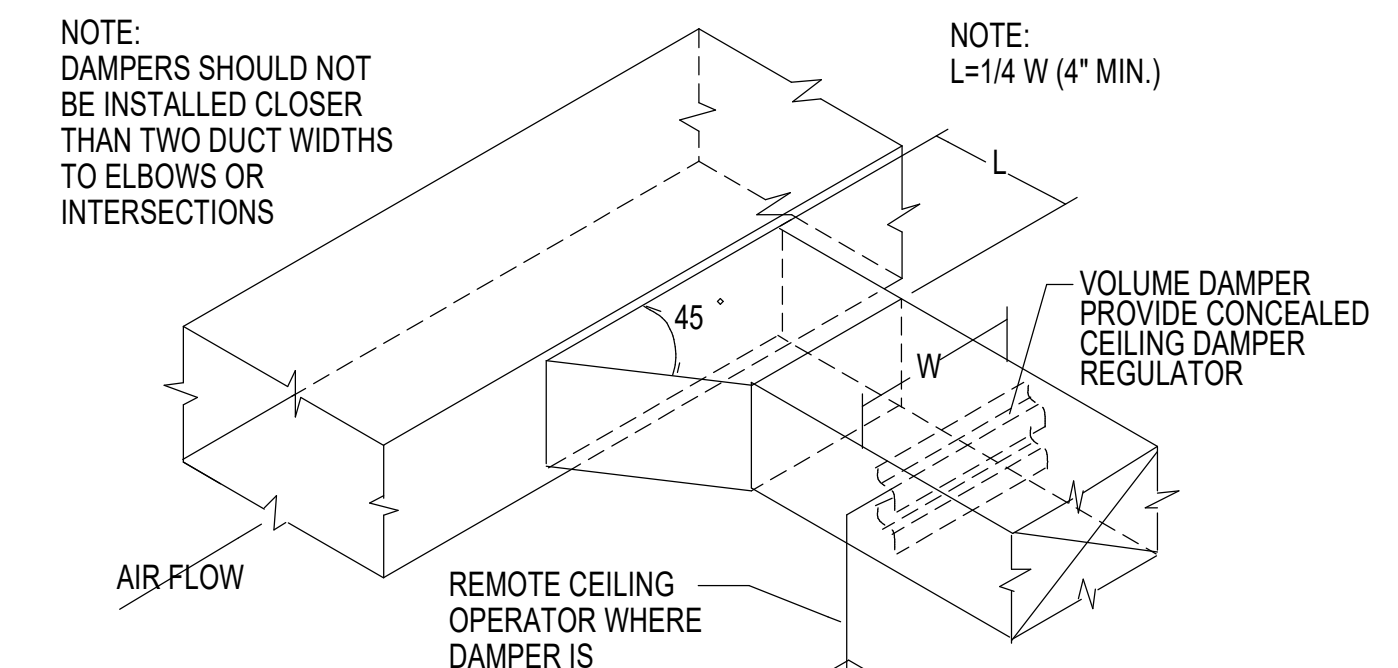
14 TRANSFER AIR GRILLE DETAIL
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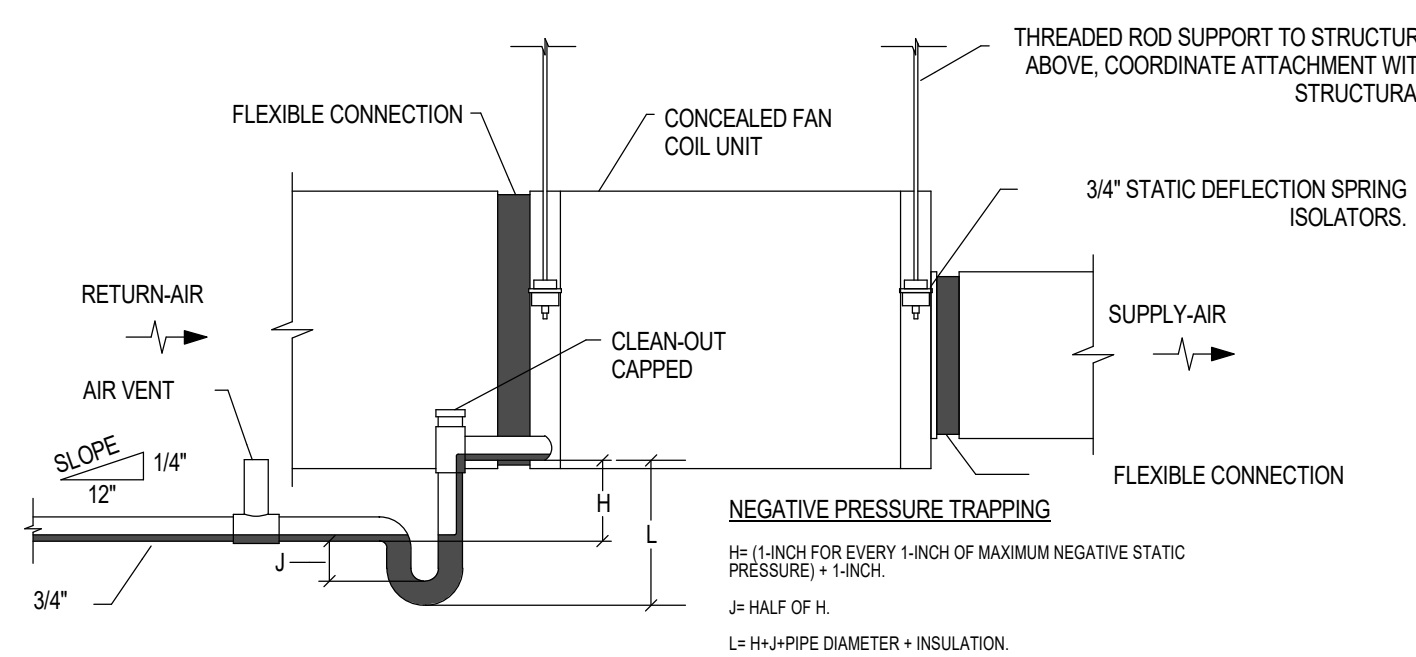
11 REFRIGERANT PIPE ANCHOR AT WALL DETAIL
NO SCALE



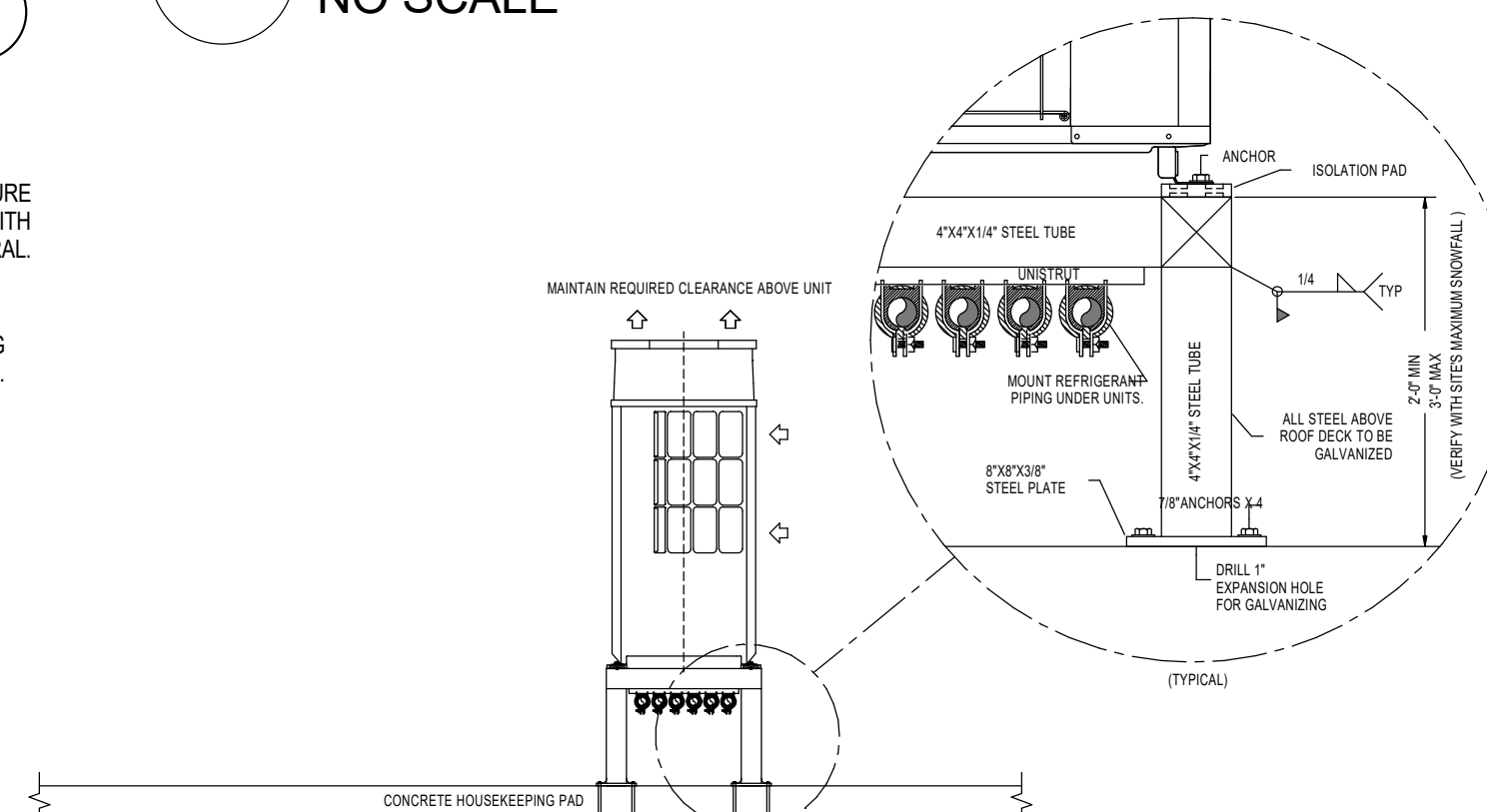
7 SUPPLY DIFFUSER W/ FLEX DUCT DETAIL
NO SCALE



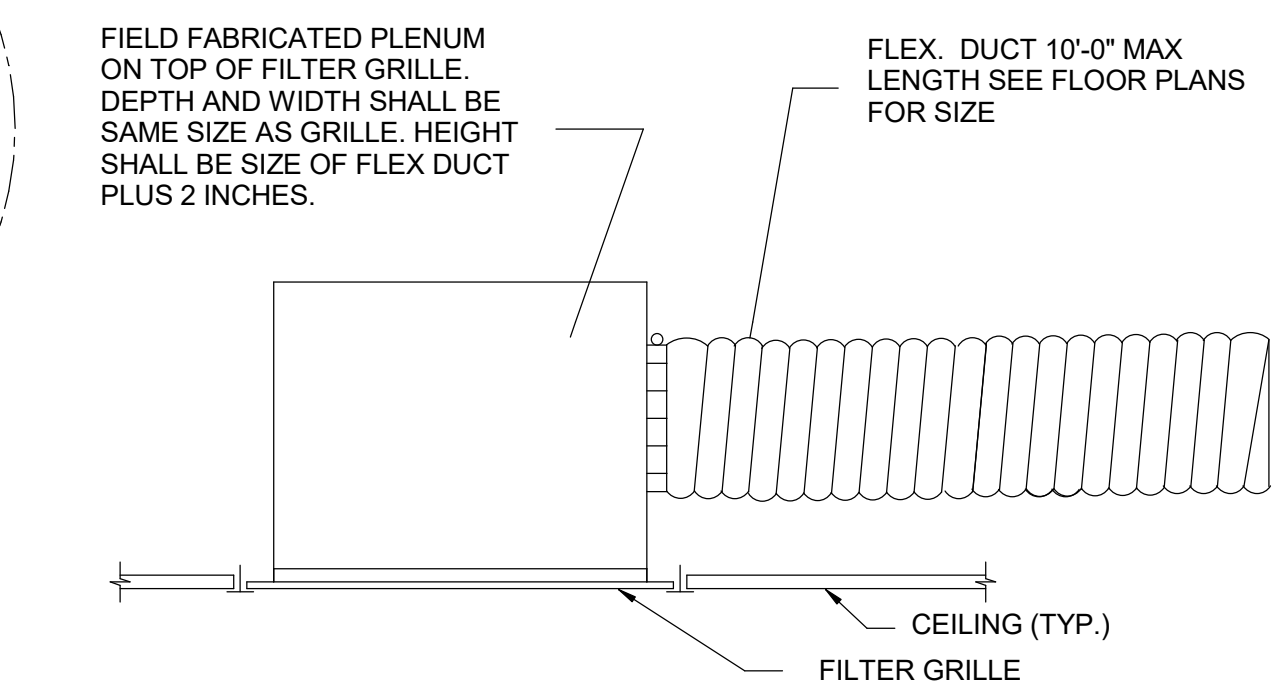
3 BRANCH DUCT TAKE-OFF & DAMPER DETAIL
NO SCALE



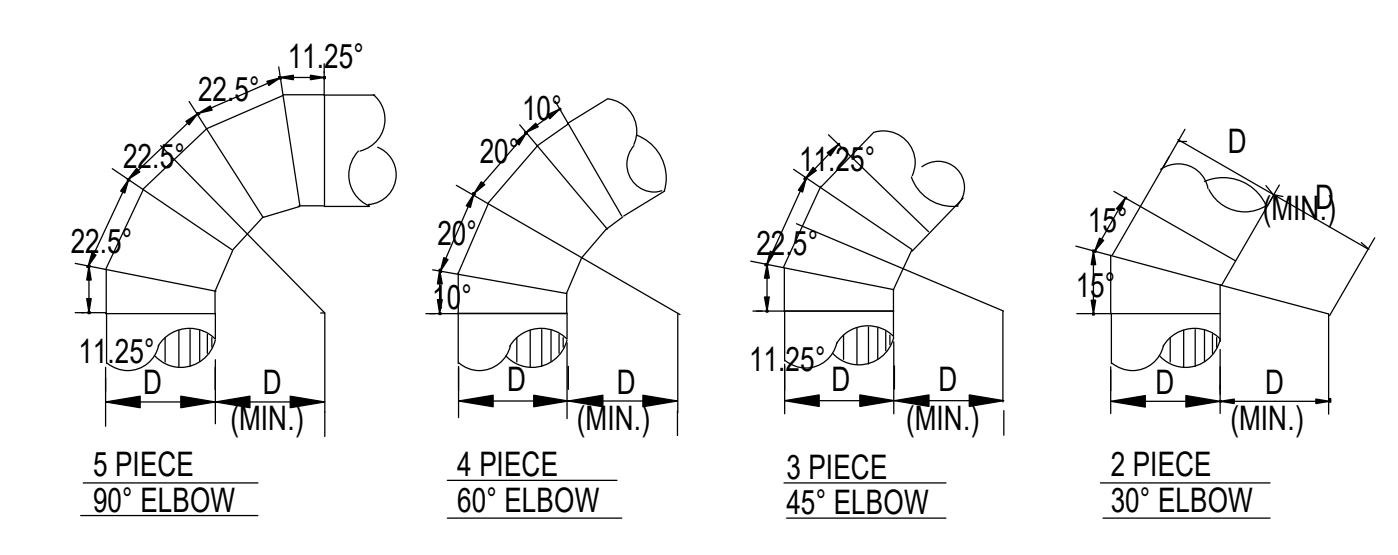
13 FAN COIL CONDENSATE P-TRAP DETAIL
NO SCALE



12 VRF OUTDOOR UNIT SUPPORT DETAIL
NO SCALE



8 FILTER RETURN GRILLE DETAIL
NO SCALE



4 ROUND DUCT ELBOW DETAILS
NO SCALE

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| DATE | REVISION |
| 1 8/16/19 | Addendum 1 |

PROFESSIONAL ENGINEER
No. 2745
RICHARD G. REEDER
STATE OF UTAH
07/31/2019

MECHANICAL DETAILS

MH501

| ELECTRIC HEATING COIL SCHEDULE | | | | | | | | | |
|--------------------------------|--------------|--------------|--------|------------|--------------|------------|-------------|---------------------|--|
| ID | MANUFACTURER | MODEL NUMBER | STAGES | ELECTRICAL | | PHYSICAL | | NOTES | |
| | | | | KW | VOLTS/PHASE | WIDTH (IN) | HEIGHT (IN) | | |
| HC-02 | TUTCO | DHC | 2 | 2 | 208 / 3 / 60 | 53.5 | 7.06 | 1, 2, 3, 4, 5, 6, 7 | |

1. INCLUDE ON-24 RELAY KIT TO CONTROL DUCT HEATERS AS SECOND STAGE TO THE VRF FAN COILS.
2. INCLUDE FAN INTERLOCK WITH AUTOMATIC LIMIT SWITCH FOR PRIMARY OVER TEMPERATURE PROTECTION.
3. INCLUDE MANUAL RESET LIMIT SWITCH FOR SECONDARY OVER TEMPERATURE PROTECTION.
4. ALL CONTROL BOXES TO BE INSTALLED TO MATCH SAME ACCESS AS FAN COIL UNIT.
5. INCLUDE AIR FLOW SWITCH TO PREVENT HEATER FROM BEING ENERGIZED WHEN FAN IS NOT ON.
6. BASIS OF DESIGN AIR TEMPERATURE RISE IS 20 DEG F.
7. MAINTAIN CLEARANCE IN FRONT OF THE HEATER ELECTRICAL PANELS TO COMPLY WITH THE NATIONAL ELECTRIC CODE.

| VRF INDOOR UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | |
|--------------------------|------------------|----------------|---------------|---------------------------------|----------------------|--------------------------|-----------------------------|-------------------------------|----------------------|--------------------------|--------------------------------|--------------|------|--------------------------------|--------------|--------------|------------------------------|--------------|--|-------|
| IDENTIFICATION | MANUFACTURER | MODEL NUMBER | AIRFLOW (CFM) | MAX STATIC PRESSURE (IN. WATER) | COOLING CAPACITY | | | | HEATING CAPACITY | | | | COIL | ELECTRICAL | | | | PHYSICAL | | NOTES |
| | | | | | NOMINAL LOAD (BTU/H) | RATED TOTAL LOAD (BTU/H) | RATED SENSIBLE LOAD (BTU/H) | DESIGN ENT AIR TEMP DBWB (°F) | NOMINAL LOAD (BTU/H) | RATED TOTAL LOAD (BTU/H) | RATED DESIGN ENT AIR TEMP (°F) | REFRIG. TYPE | | MINIMUM CIRCUIT AMPACITY (MCA) | TOTAL (MOCP) | VOLTS/ PHASE | DEPTH / LENGTH / HEIGHT (IN) | WEIGHT (LBS) | | |
| FC-06 | TRANE MITSUBISHI | TPEFY006M143A | 300 | 0.6 | 6,000 | 4,689 | 4,689 | 80 / 67 | 6,700 | 3,277 | 70 | R-410A | 1.05 | 15 | 208 / 1 | 30 / 30 / 10 | 50 | 1, 2 | | |
| FC-08 | TRANE MITSUBISHI | TPEFY008M143A | 300 | 0.6 | 8,000 | 6,253 | 5,796 | 80 / 67 | 9,000 | 6,929 | 70 | R-410A | 1.05 | 15 | 208 / 1 | 30 / 30 / 10 | 50 | 1, 2 | | |
| FC-12 | TRANE MITSUBISHI | TPEFY012M143A | 400 | 0.6 | 12,000 | 9,377 | 7,300 | 80 / 67 | 13,500 | 6,604 | 70 | R-410A | 1.20 | 15 | 208 / 1 | 30 / 30 / 10 | 50 | 1, 2 | | |
| WU-08 | TRANE MITSUBISHI | TPKFY008HM142A | 413 | - | 8,000 | 6,253 | 6,167 | 80 / 67 | 9,000 | 6,929 | 70 | R-410A | 0.38 | 15 | 208 / 1 | 10 / 40 / 15 | 30 | 1, 3 | | |
| WU-12 | TRANE MITSUBISHI | TPKFY012HM142A | 413 | - | 12,000 | 9,377 | 7,806 | 80 / 67 | 13,500 | 6,604 | 70 | R-410A | 0.38 | 15 | 208 / 1 | 10 / 40 / 15 | 30 | 1, 3 | | |

1. COORDINATE WITH ELECTRICAL TO PROVIDE FUSED DISCONNECT, TO BE INSTALLED BY DIVISION 26.
2. PROVIDE AIR FILTERS.
3. PROVIDE ACCESSORY CONDENSATE.

| VRF BRANCH CONTROLLER SCHEDULE | | | | | | | |
|--------------------------------|-------------------------------|-----------------|-------------|-----------------|--------------------------------|--------------|---------|
| ID | MANUFACTURER AND MODEL NUMBER | TYPE (MAIN/SUB) | REFRIGERANT | NUMBER OF PORTS | ELECTRICAL | | NOTES |
| | | | | | MINIMUM CIRCUIT AMPACITY (MCA) | VOLTS/ PHASE | |
| BC-8 | MITSUBISHI TCMBM0108JA11N4 | MAIN | R-410A | 8 | 1.65 | 208 / 1 | 1, 2, 3 |

1. PROVIDE WITH DIAMONDBACK BALL VALVES, BV-SERIES, FULL-PORT, R410A RATED.
2. PROVIDE WITH MINI-ORANGE 230, 0.11A, 16 W, 60 HZ, 0.5 GPM @ 8 FL. OF HEAD.
3. PROVIDE WITH FUSED DISCONNECT, TO BE INSTALLED BY DIVISION 26.

| VRF OUTDOOR UNIT SCHEDULE - AIR COOLED | | | | | | | | | | | | | | |
|--|------------------|-----------------|-------------|--|--|------------------------------------|------------------------------------|--------------------------------|------|--------------|--------------|-----------------------------|------------------|-------|
| ID | MANUFACTURER | MODEL NUMBER | REFRIGERANT | TOTAL NOMINAL COOLING CAPACITY (BTU/H) | TOTAL NOMINAL HEATING CAPACITY (BTU/H) | SUMMER AMBIENT AIR TEMP. DBWB (°F) | WINTER AMBIENT AIR TEMP. DBWB (°F) | ELECTRICAL | | | MOTOR HP | HEIGHT / WIDTH / DEPTH (IN) | WEIGHT (LBS) | NOTES |
| | | | | | | | | MINIMUM CIRCUIT AMPACITY (MCA) | MOCP | VOLTS/ PHASE | | | | |
| CJ-096 | TRANE MITSUBISHI | TURRYH0963AN4AN | R-410A | 96,000 | 108,000 | 88 / 67 | -16 | 44 | 70 | 208 / 3 | 75 / 50 / 30 | 600 | 1, 2, 3, 4, 5, 6 | |

1. UNIT SHALL BE CAPABLE OF OPERATION DOWN TO -25°F.
2. DUAL ELECTRICAL CONNECTION.
3. PROVIDE WITH FUSED DISCONNECT, TO BE INSTALLED BY DIVISION 26.
4. PROVIDE WITH SNOW HOODS AND HAIL GUARDS.
5. PROVIDE WITH BASEPAN HEATER.
6. MAINTAIN CLEARANCES TO OBSTRUCTIONS SUCH AS WALLS, OVERHANGS AND OTHER EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.

| DEDICATED OUTSIDE AIR UNIT | | | | | | | | | | | | | | | |
|----------------------------|--------------|-----------------------|-----------------------------|--------------------------------------|---------------------------|--------------------|----------------------------|-----|------|-------|----------|------------------------------|--------------|-------|---------|
| ID | MANUFACTURER | MODEL NO | OUTSIDE AIR FLOW RATE (CFM) | TOTAL STATIC PRESSURE DROP (IN. H2O) | HEATING | | ELECTRICAL | | | | MOTOR HP | LENGTH / WIDTH / HEIGHT (IN) | WEIGHT (LBS) | NOTES | |
| | | | | | TEMPERATURE RISE (DEG. F) | HEATING LOAD (MBH) | ELECTRIC HEATING COIL (KW) | MCA | MOCP | VPH | | | | | FILTERS |
| DOAS-1 | TRANE | BCD030E1*140422110ABA | 750 | 0.6 | 62 | 37.56 | 11 | 44 | 4.6 | 208/3 | 1 | MERV 13 | 354020 | 220 | 1, 2 |

1. PROVIDE WITH DISCONNECT, DISCONNECT INSTALLED BY DIVISION 26.
2. INTERLOCK WITH OUTSIDE AIR ATC DAMPER.

| SPLIT SYSTEM A/C UNITS | | | | | | | | | | | | | | | | |
|------------------------|--------------|--------------|------------------------|----------|-----------|-------------------------|---------------|------------|---------------|------------------|--------------------|-------------|-------------------|-----|---------------------|-------|
| ID | MANUFACTURER | MODEL NUMBER | COOLING CAPACITY (BTU) | LOCATION | CFM RANGE | DIMENSIONS W" x H" x D" | WEIGHT (LBS.) | AMPS (MCA) | FAN MOTOR FLA | VOLTS/PHASE | EFFICIENCY | | REFRIGERANT LINES | | | NOTES |
| | | | | | | | | | | | MINIMUM SEER @ ARI | REFRIGERANT | LIQUID | GAS | | |
| ACH-012 | MITSUBISHI | PKA-A12HA | 12,000 | INDOOR | 530 | 34 x 34 x 12 | 46 | 1.0 | 0.36 | 208-230 / 1 / 60 | 27 | R-410A | 1/4 | 1/2 | 1, 2, 3, 4, 5, 6, 7 | |
| ACO-012 | MITSUBISHI | PLY-A12NH43 | | OUTDOOR | - | 33 x 12 x 25 | 92 | 11 | 0.50 | | | | | | | |

1. CONDENSING UNIT TO BE SIZED MATCHED TO INDOOR UNIT AND TO BE BY SAME MANUFACTURER AS INDOOR UNIT.
2. PROVIDE FACTORY MOUNTED STAND FOR CONDENSING UNIT.
3. PROVIDE FACTORY WIND BAFFLE AND LOW AMBIENT HEAD CONTROLLER TO ALLOW COOLING OPERATION DOWN TO 0 DEG. F. D.B.
4. WIRELESS REMOTE CONTROLLER, PROVIDE WALL MOUNTED HOLDER.
5. PROVIDE ACCESSORY CONDENSATE PUMP FOR INDOOR UNIT.
6. INDOOR UNIT IS TO BE POWERED FROM OUTDOOR UNIT.
7. PROVIDE WITH FUSED DISCONNECT, TO BE INSTALLED BY DIVISION 26.

| FAN SCHEDULE | | | | | | | | |
|--------------|--------------|--------------|--------|----------------------------|-----------------------------|-----------------|-------------------|-------|
| ID | MANUFACTURER | MODEL NUMBER | TYPE | AIR | | ELECTRICAL | | NOTES |
| | | | | MAXIMUM AIRFLOW RATE (CFM) | STATIC PRESSURE (IN. WATER) | MOTOR SIZE (HP) | MOTOR SPEED (RPM) | |
| EF-1 | COOK | 90SQM15D | INLINE | 250 | 0.50 | 1/6 | 1710 | 1201 |

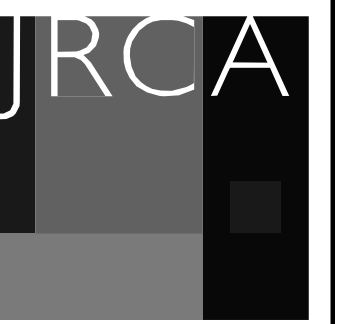
1. CONTROL FAN WITH A LINE VOLTAGE THERMOSTAT. WIRING AND T-STAT BY ATC CONTRACTOR.
2. PROVIDE WITH 0-10 VDC CONTACTS FOR REMOTE SPEED CONTROL.

| ELECTRIC WALL HEATER | | | | | | | |
|----------------------|--------------|--------------|--------------------|-----|------------|------------------|-------|
| SYMBOL | MANUFACTURER | MODEL NUMBER | AIR | | ELECTRICAL | | NOTES |
| | | | AIRFLOW RATE (CFM) | KW | AMPS | VOLTS/ PHASE/ HZ | |
| EW-1 | MARLEY | CWRH150F | 100 | 1.5 | 12.5 | 1201 | 1 |

1. PROVIDE WITH REMOTE MOUNTED SINGLE STAGE THERMOSTAT.

| GRILLES, REGISTERS AND DIFFUSERS | | | | |
|----------------------------------|--------------|-------|--------|---|
| ID | MANUFACTURER | MODEL | MAX NC | DESCRIPTION |
| CD-1 | EH PRICE | SPD | 30 | SQUARE PLAQUE FACE CEILING DIFFUSERS. REMOVABLE FACE. C.W.I.O.B.D. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. |
| RG-1 EG-1 | EH PRICE | PDDR | 30 | REMOVABLE FACE AND CORE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. UNITS SHALL HAVE 1/2" x 1/2" x 1/2" SQUARES. NECK SIZE SHALL BE 22X22 UNLESS NOTED OTHERWISE. PROVIDE WITH FILTER UNLESS NOTED OTHERWISE. |
| SWR-1 | EH PRICE | 535 | 30 | SIDEWALL RETURN AIR GRILLE. HORIZONTAL STATIONARY 45 DEG DEFLECTION VANES SET ON 1/2 INCH CENTER. COMPLETE WITH OBD ADJUSTABLE THROUGH FACE. |

NOTE: UNLESS NOTED OTHERWISE CD-1 TYPICAL SQUARE DIFFUSER; RG-1 TYPICAL RETURN AIR GRILLE; EG-1 TYPICAL EXHAUST GRILLE



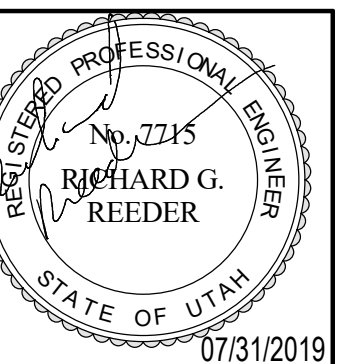
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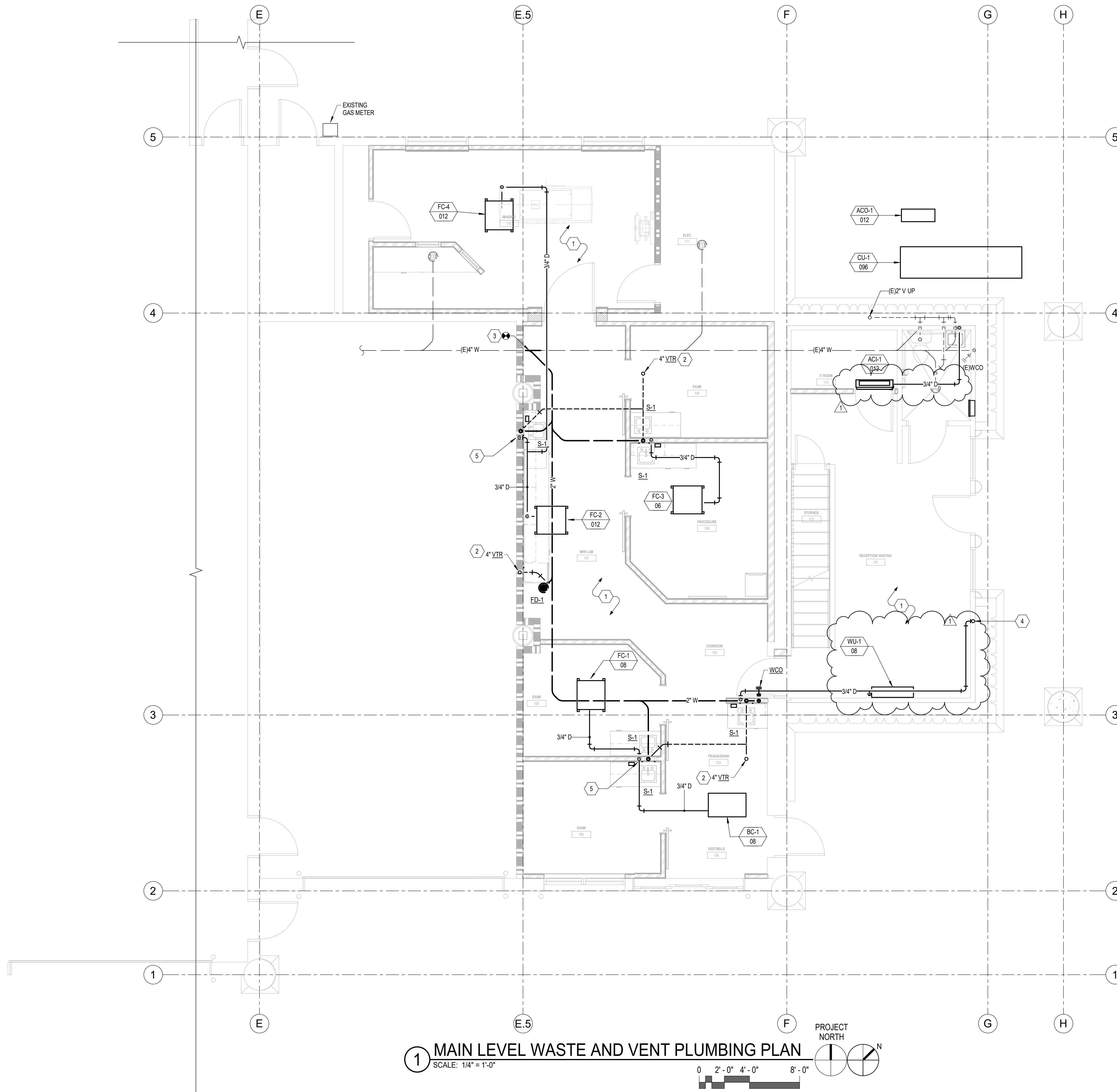
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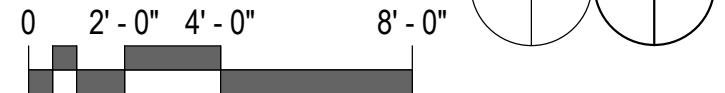


MECHANICAL SCHEDULES

MH601



1 MAIN LEVEL WASTE AND VENT PLUMBING PLAN
 SCALE: 1/4" = 1'-0"
 PROJECT NORTH



KEYED NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCT SIZES, PIPE SIZES AND LOCATIONS PRIOR TO BEGINNING ANY WORK. IF ANY DISCREPANCIES, ERRORS, CONFLICTS OR CONCERNS ARE UNCOVERED BY THE CONTRACTORS THEY SHALL BRING THEM TO THE OWNER/ENGINEER'S ATTENTION PRIOR TO ANY WORK PROGRESSING FOR RESOLUTION.
2. ROUTE VTR THROUGH MEZZANINE LEVEL ABOVE. COORDINATE FINAL LOCATIONS WITH SNOWBASIN. LOCATE NO LESS THAN 25-FEET FROM ANY FRESH AIR INTAKE.
3. FIELD VERIFY EXISTING SANITARY BELOW FINISHED FLOOR PRIOR TO ROUTING NEW SANITARY. FIELD VERIFY NEW CONNECTION.
4. ROUTE 3/4\" CONDENSATE FROM WU-2 ON WALL ABOVE WINDOW. DROP CONDENSATE THROUGH FLOOR SOUTH OF WINDOW. COMBINE WITH CONDENSATE FROM WU-1.
5. REFER TO PLUMBING DETAILS FOR CONDENSATE ROUTING. (TYPICAL)

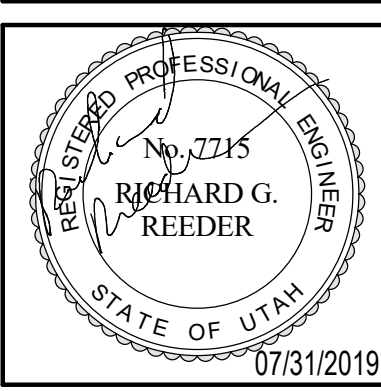
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 VBFA Project Number: 18045

INTERMOUNTAIN SNOWBASIN CLINIC
 3925 SNOW BASIN RD
 HUNTSVILLE, UTAH 84317

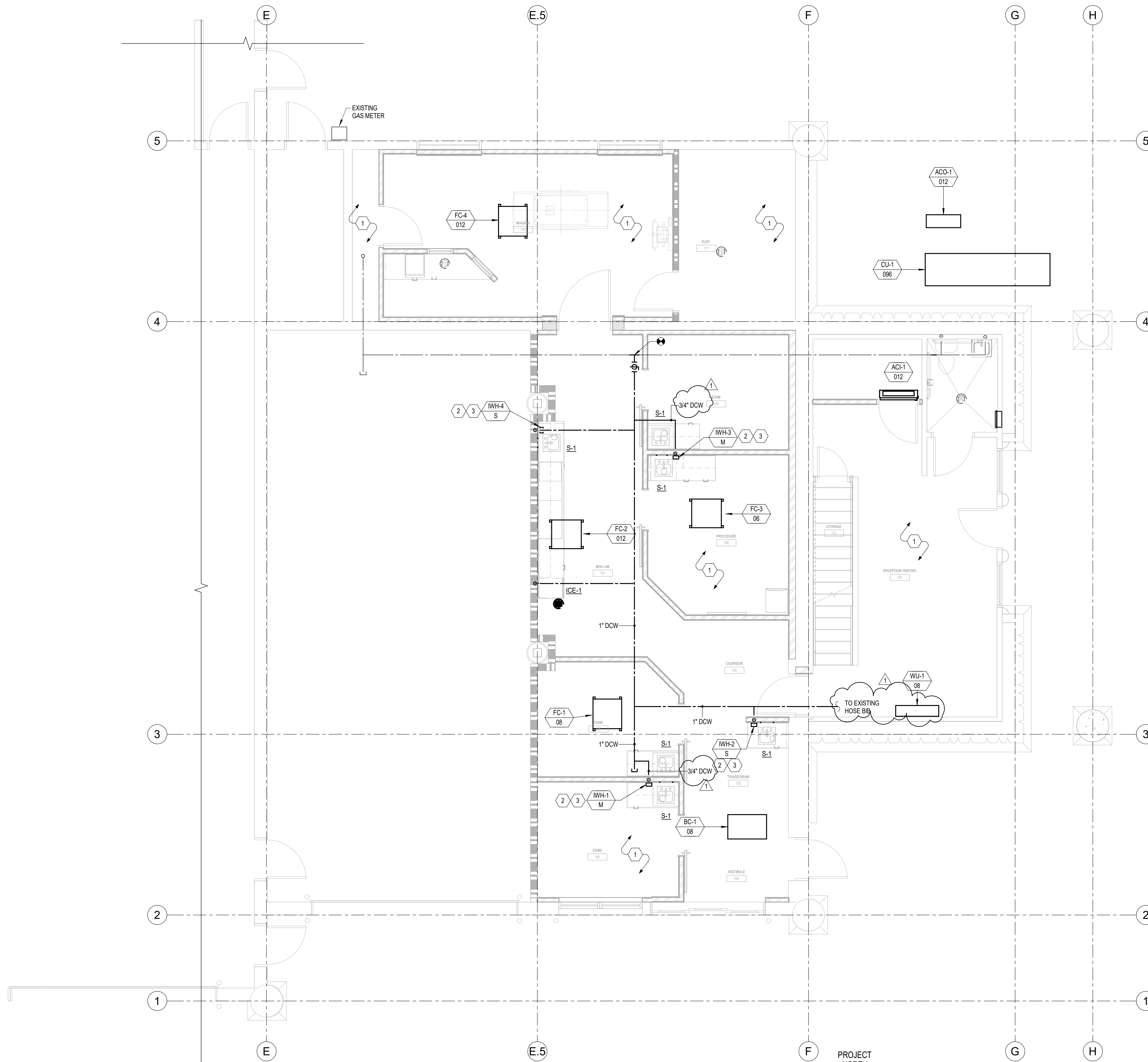
PROJECT #: 19028

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| 07/31/2019 | | |
| DATE | REVISION | |
| 1 | 8/16/19 | Addendum 1 |



MAIN LEVEL WASTE AND VENT PLUMBING PLAN

PL100



- ### KEYED NOTES
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCT SIZES, PIPE SIZES AND LOCATIONS PRIOR TO BEGINNING ANY WORK. IF ANY DISCREPANCIES, ERRORS, CONFLICTS OR CONCERNS ARE UNCOVERED BY THE CONTRACTORS THEY SHALL BRING THEM TO THE OWNER/ENGINEER'S ATTENTION PRIOR TO ANY WORK PROCEEDING FOR RESOLUTION.
 - ROUTE DHW AS REQUIRED TO WATER HEATER.
 - ROUTE DCW AS REQUIRED TO LAV(S).

1 MAIN LEVEL PLUMBING PLAN
 SCALE: 1/4" = 1'-0"
 0 2'-0" 4'-0" 8'-0"

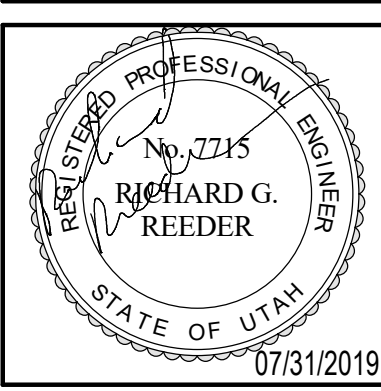
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MAIN LEVEL PLUMBING PLAN

PL101



ELECTRICAL ADDENDUM 1

DATE: August 16, 2019

PROJECT NO: 19328

PROJECT: Intermountain Snowbasin Imaging

DRAWINGS

SHEET - EE501

1. Delete Detail 5/EE501 Programmable Lighting Control Detail.

SHEET - EL101

1. Change fixture types in Reception to AF and AFE.
2. Delete (2) type A fixtures in IT room and add (1) type B fixture.
3. Add dimming switches and dimmer module in Imaging 110. Add keyed note 6.
4. Circuit exam light in Procedure 108 to room lighting circuit. Add keyed note 7.

SHEET - EP101

1. Delete Panel L6.
2. Add power and data for two wall mounted TV monitors.
3. Add ceiling mounted data outlet for wireless access point.
4. Relocate data outlets in exam rooms to opposite wall.
5. Relocate the new fire alarm panel to the IT room.

SHEET - EP111

1. Circuit ACO-1 to Panel L1 in lieu of Panel L5.

SHEET - EP111

1. Revised entire sheet.

SHEET - EY101

1. Add fire alarm pull station and flow switch in fire riser room.

SHEET - EE601

1. Delete Panel L6.

SHEET - EE602

1. Delete Panel L6.
2. Revise Panel L5.
3. Luminaire Schedule: Add fixture types AF and AFE. They shall be the same as fixture type A and AE except that they shall be provided with a flange mounting kit.

PRINCIPALS

Mechanical: Kim P. Harris, PE | Richard G. Reeder, PE, LEED AP BD+C | Byron R. Torgersen, PE | Jeffrey S. Watkins, PE | Donald K. Bradshaw, PE, CPD | Wade W. Bennion, PE, LEED AP | Steven T. Shepherd, PE, LEED AP | Benjamin L. Davis, PE | Ladd M. Birch, PE | Michael S. Mooney | Brad W. Rosenhan, PE | Ray D. Vernon, PE, LEED AP BD+C | Jed H. Lyman, PE | Scot E. Muir, PE, LEED AP BD+C | J. Howard Van Boerum, PE, FACEC (emeritus) | John D. Frank, PE (emeritus)

Electrical: Ryan C. Van Voast, PE

Civil and Fire Protection: David P. Baranowski, PE

PRIOR APPROVALS

The following manufacturers, trade names and products are allowed to bid on a name brand only basis with the provision that they completely satisfy all and every requirement of the drawings, specifications and all addenda shall conform to the design, quality and standards specified, established and required for the complete and satisfactory installation and performance of the building and all its respective parts.

LIGHTING FIXTURES:

| <u>Item</u> | <u>Manufacturer</u> |
|--------------------|--|
| Type C | Liton, Juno, Nora |
| Type D | Indessa, Lightway, Metalux |
| Type X1 | Dual Lite, Exitronix, Isolite, Emergensee |

LIGHTING CONTROLS:

**Lutron/Hubbell
Crestron**

RADIOGRAPHIC CONSTRUCTION NOTES

SITE PREPARATIO PRIOR TO DELIVERY

All plans, drawings and specifications provided by Simons X-Ray and the Manufacturer are necessary for proper equipment function and use. Changes are possible but not recommended. **ANY CHANGE MUST BE APPROVED IN WRITINNG BY SIMONS X-RAY.** All work and products supplied must meet Federal, State and Local codes, including the National Electric Code including Article 660 related to Medical X-Ray. Incoming power is critical! The x-ray system is a non-linear load. Adequate building transformer KVA and K-factor for x-ray and for building use must meet 100% of the demand load. **FAILURE TO COMPLY WITH ALL SPECIFICATIONS MAY RESULT IN INCREASED INSTALLATION COSTS AND/OR A DECREASE IN EQUIPMENT LIFE EXPECTANCY, AND MY VOID THE MANUFACTRERS WARRANTY. COSTS RESULTING FROM NON-COMPLIANC ARE THE RESPONSIBILITY OF THE PURCHASER.** Call Simons X-Ray with any questions.

J-Box Schedule and Construction Notes

J BOX and GUTTER

SIZE & KO SCHEDULE

| <u>DESIGNATION</u> | <u>EQUIPMENT</u> | <u>SIZE & KO SCHEDULE</u> | <u>LOCATION</u> |
|--------------------|--|---|--|
| A1 | Main Power | Circuit breaker (or shunt trip) 3-phase x-ray generator power. See pg.3 Power Requirements and explanation | Flush with finished wall per code |
| A2 | Load Center for Aux. Equipment | Circuit breaker, knife switch or light switch 20Amp, 110VAC Power for: Table, Tubestand and Collimator Power for: CR - Reader, CPU and Monitor | Flush with finished wall Coordinate with "A" |
| B | Incoming Power | 6"x6" pullbox with cover | Recessed in wall, <u>bottom box at floor level</u> not higher |
| C | Control Cabinet Interconnect wiring | RWT 10 Square D recessed trough | Recessed: Open above ceiling and below floor |
| D | Table | 12" x 12" pullbox with cover | FLUSH with finished floor |
| E | Wall Bucky | 6"x6" pullbox with cover | Flush with finished wall Center at 48" AFF |
| F | Control Desk | 6"x6" pullbox with cover | Mount under counter |
| I | Cable Drape | 6" diameter nipple | Flush with finished ceiling |
| G | Collimator | 6"x6" pullbox with cover | Flush with finished wall Center at 60" AFF, close to the wall trough |
| H1,2,3 | Warning Light(s) | "X-Ray In Use" light. Outlet box DO NOT POWER | Mount outlet box centered above entry door, facing outside of the x-ray room Note: may not need all three |
| P | CR Processor | 4-gang 115VAC outlet Two (2) Network Ports | *Coordinate exact location with Konica/IHC |

CONDUIT SCHEDULE

***All wire to be copper, thnn stranded.**

Use shortest routes possible. Leave 6' pigtails (unless otherwise specified)

| Conduits | From - To | Conduit Size | Wire Size |
|----------|-----------|---|------------------------------|
| #1 | A1 to B | 1ea. Size as needed, per code | See pg. 3 Power Requirements |
| #2 | A2 to C | 1ea. Size as needed, per code (110V, 20Amp) | 3ea. #18 gauge, 6' tails |
| #3 | C to D | 2ea. C. | Empty |
| #4 | C to E | 2ea. C. | Empty |
| #5 | C to F | 1ea. 1-1/2" C. 25' Maximum run length | Empty |
| #6 | C to I | Wire ladder/raceway above ceiling to contain high-voltage and interconnect wiring | Empty |
| #7 | C to G | | Empty |
| #8 | C to H | 1ea. Size as needed, per code | 3ea. #18 gauge, 3' tails |

Construction Notes

- <1> Provide Radiation Shielding per Physicist report. 7' height. Solid Core doors.
Control Room window(s) Suggest 18"x24", mounted 60" AFF to window center
- <2> Provide convenience outlets throughout the room per code, including at least two outlets above the countertop in the control area
- <3> Provide countertop/shelving for x-ray control and monitors. Coordinate all cabinetry and shelving with x-ray and digital equipment needs
- <4> Provide backing (2" x 6" x 24"), centered 84" AFF to support wall bucky mounting points
Center 54" from the perpendicular wall. Backing needs to withstand 1,000lbs. pull weight
- <5> Area of floor under the x-ray Table and Tubestand Base **MUST** be plumb and level within 1/8".
Table anchors to withstand 500lbs. pull weight. Tubestand anchors to withstand 200lbs pull weight
NOTE: In-floor radiant heat pipes must not be use in this area due to anchor penetrations
- <6> General area lighting in x-ray room on dimmer switch located in the control room area
Separate dimmable lighting in control area
- <7> Facility to provide and install equipment to facilitate digital imaging. 115VAC, 20Amp power is needed (4-gang outlet) and two internet ports connected to facility server with static IP addresses provided to Simons X-Ray before equipment delivery

SITE PREPARATION PRIOR TO EQUIPMENT DELIVERY

All plans, drawings, specifications provided by Simons X-Ray are integral to the installation and are subject to change based upon unique circumstances or alterations by the manufacturer. All work and products must meet Federal, State and Local codes.

Responsibility of Purchaser:

Pre-installation refers to work necessary to plan and prepare a site for installation of x-ray equipment and are the responsibility of the facility including the following:

1. Procuring materials required
2. Installing materials required before delivery of x-ray components
3. Cost of alterations and modifications when note specifically provided in the sales contract
4. Procurement of qualified Radiation-Safety Survey and the installation of appropriate radiation shielding

Preparations per Simons X-Ray and Manufacturer's specifications are required prior to beginning the x-ray installation

ELECTRICAL REQUIREMENTS FOR QUANTUM, QUEST HF SERIES GENERATORS

40kw Generator -- Three-phase Input

Note: The following are typical values and are dependent on current requirements and lengths of the cable run

QUANTUM *Quest*, High Frequency Generator

| Model | Voltage (VAC) | Wire Size (AWG) / Length | | | Disconnect to Generator Max 15ft. | Momentary Line Current (AMP) | Service Rating (AMP) | Distribution TFMR Rating (kVA) | Line Resistance (OHM) | Ground Wire Size (AWG) |
|-------|---------------|--------------------------|----------|----------|--------------------------------------|------------------------------|----------------------|--------------------------------|-----------------------|------------------------|
| | | 50 Feet | 100 Feet | 200 Feet | | | | | | |
| QG-40 | 208 | #2 | #00 | #0000 | #4 AWG | 160 | 85 | 50 | 0.017 | #4 |
| 40kW | 240 | #2 | #0 | #000 | #6 AWG | 140 | 70 | 50 | 0.27 | #4 |

NOTES: These specifications are a provided for general guidance. All wiring and grounding should be in compliance with National Electrical Code (NFPA No. 79) or local electrical code

Wire size from Distribution Transformer to disconnect Switch

Input Voltage is THREE PHASE. ALL WIRE MUST BE COPPER

Input Voltage: 208 - 257 (+/- 5%) VAC, 50/60 Hz, (configured at time of the order)

Note: Voltage must be Three-phase Y-configuration, measured line-to-line, balanced to earth ground
(additional Neutral Wire may be used if required by local electrical code)

Line regulation: 5% at full load

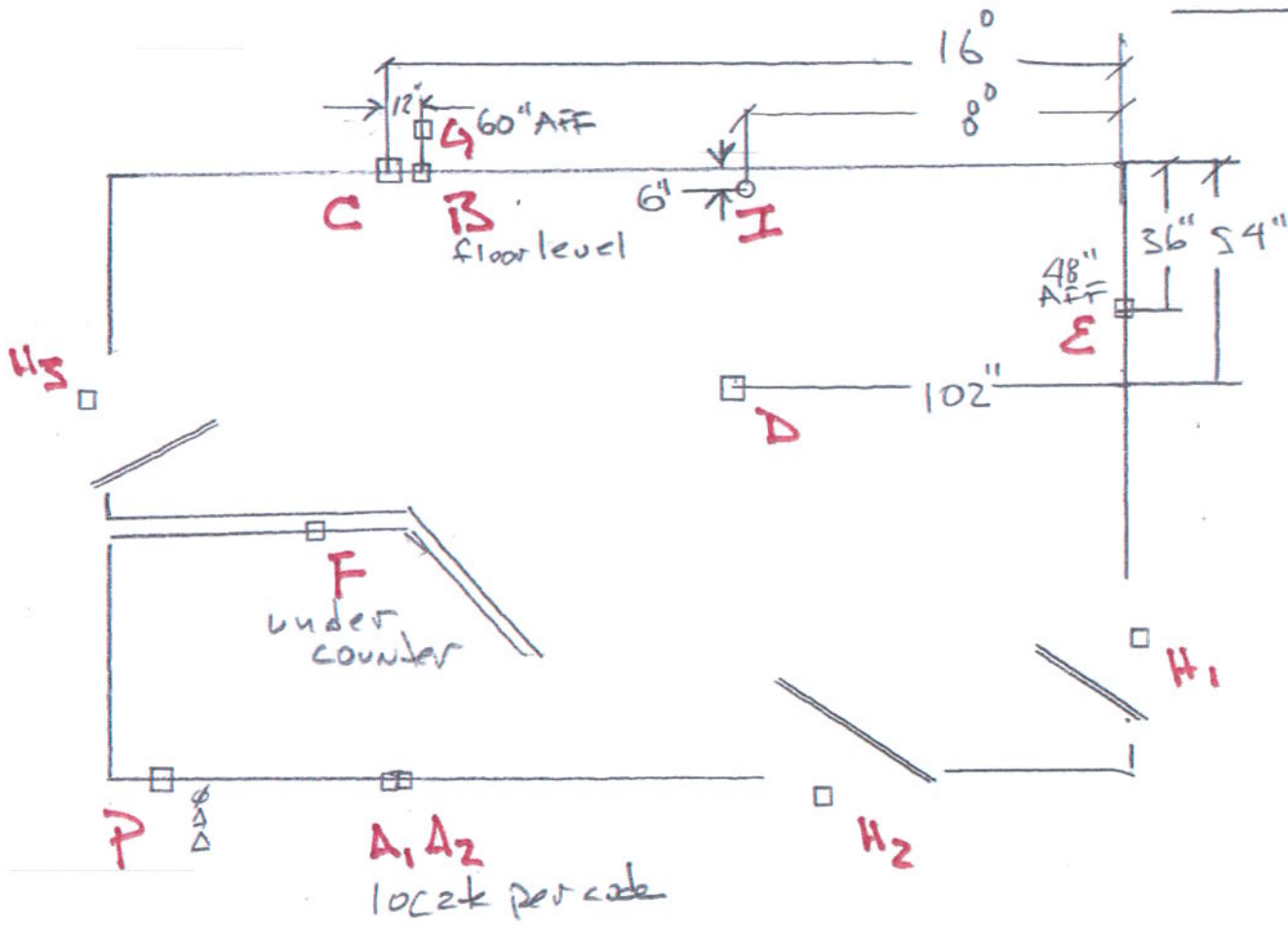
Input Current: Less than .5 Amps long term: maximum line current measured at 125kVp at the maximum kW output

*Insulation rating of the wire must be at least 50% of momentary line current

*Disconnect Switch: To be located within reach of the operator, per code

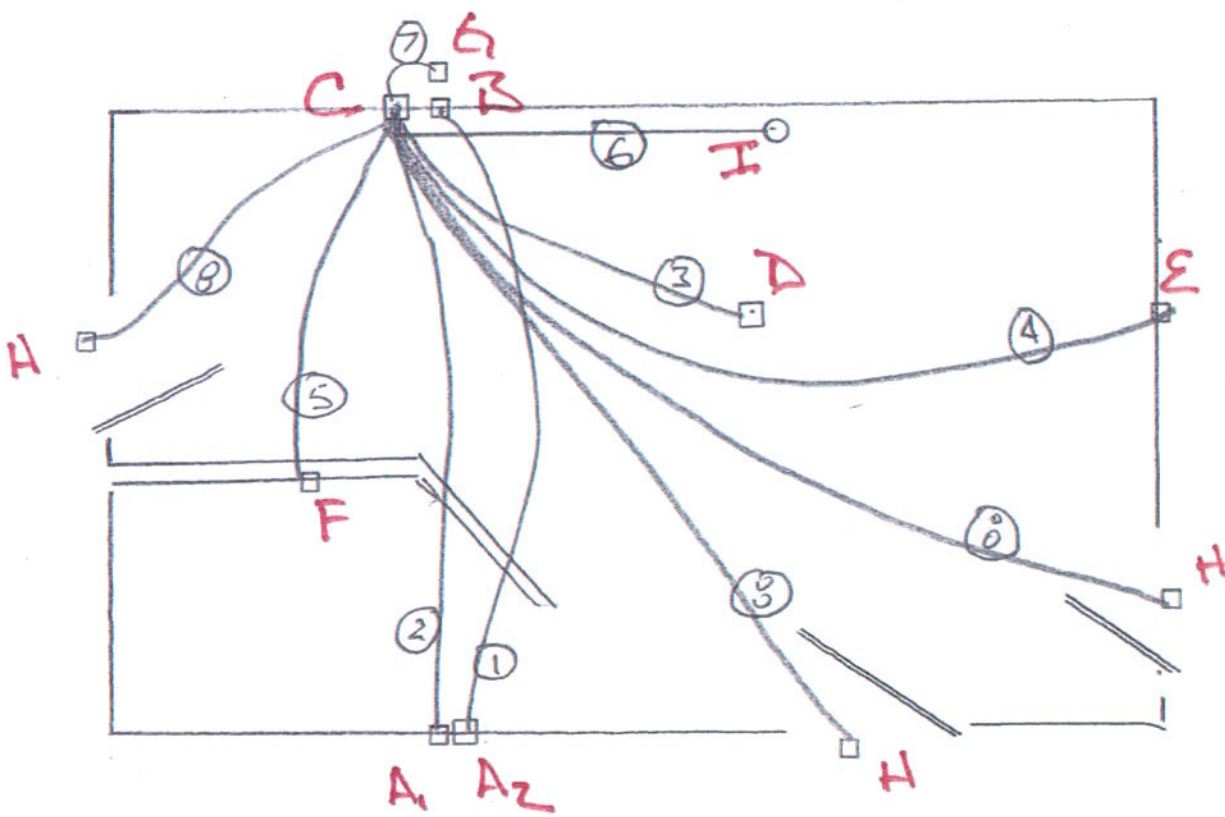
NOTE: Power is for x-ray unit ONLY and cannot be use for other office applications

Specifications subject to change. Please consult Simons X-Ray prior to final power supply hook-up

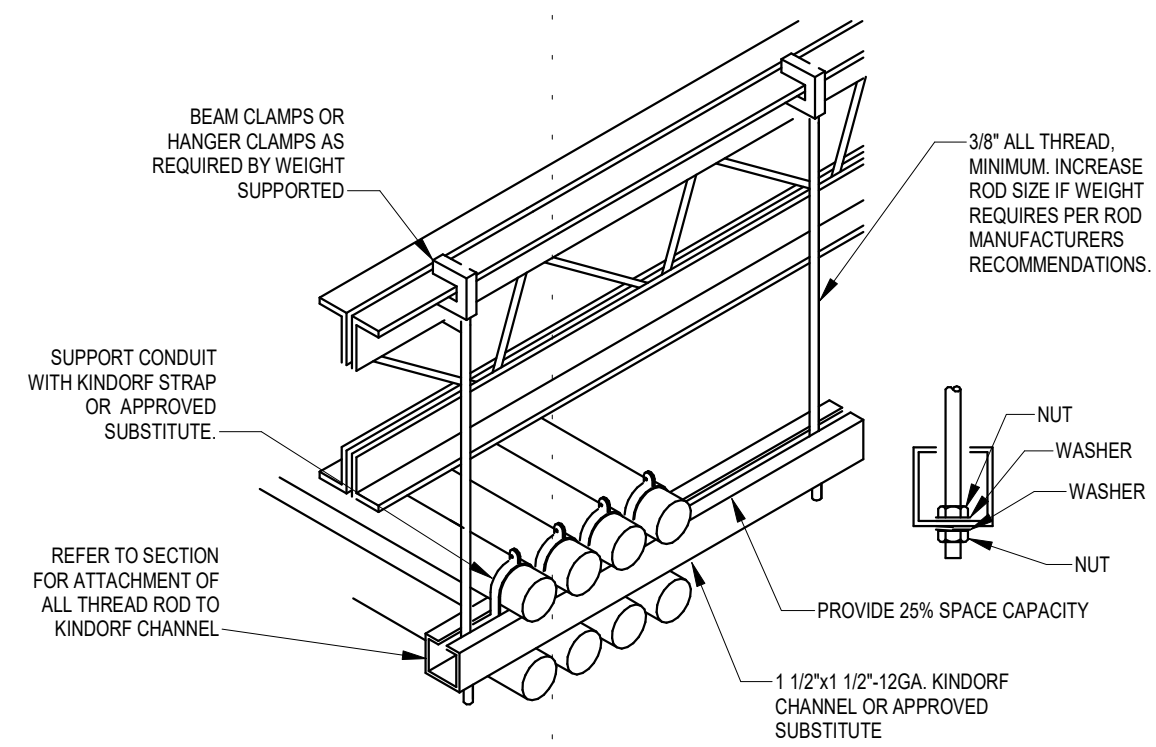


IHC, Snowbasin
1/4" = 1' 7-5-2019
Simons X-Ray

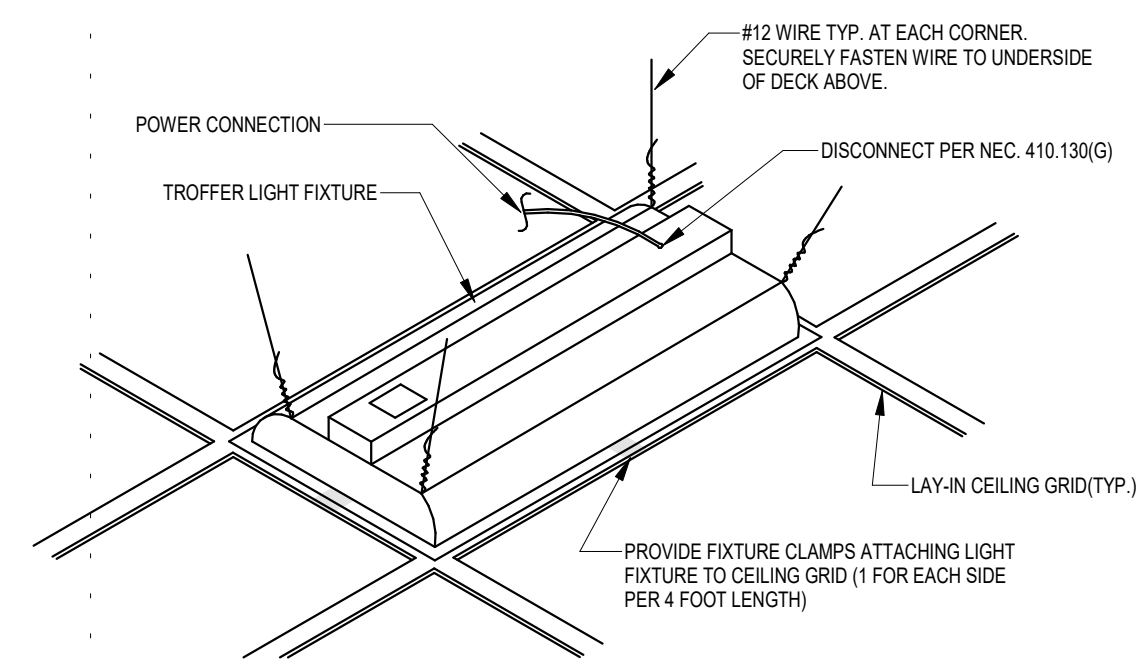
Conduit



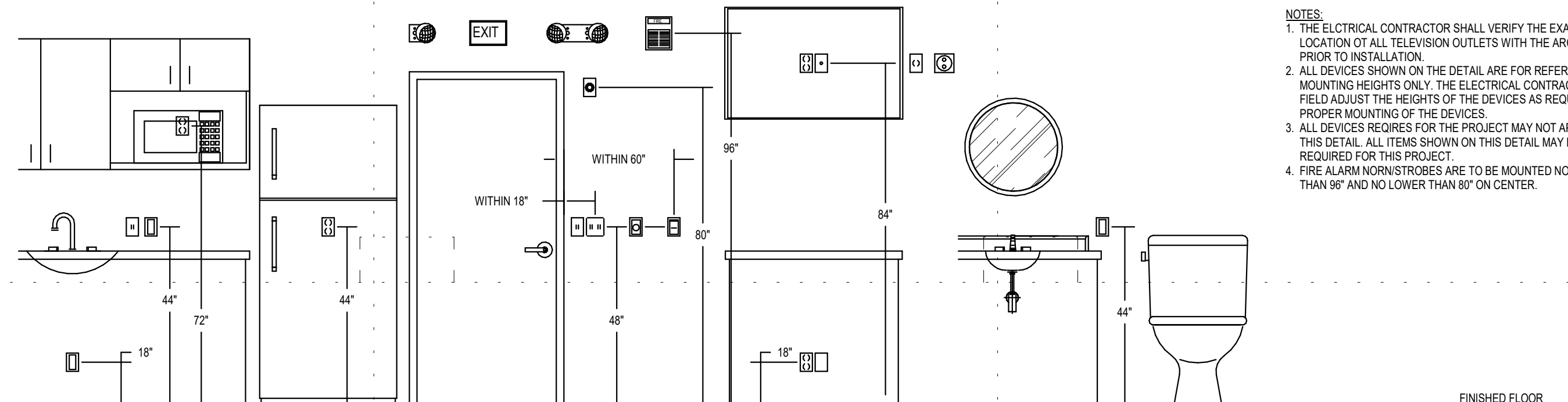
IHC, Snowbasin
1/4" = 1' 7-5-2019
Simons X-Ray



6 TRAPEZE SUPPORT DETAIL
EE501 NO SCALE

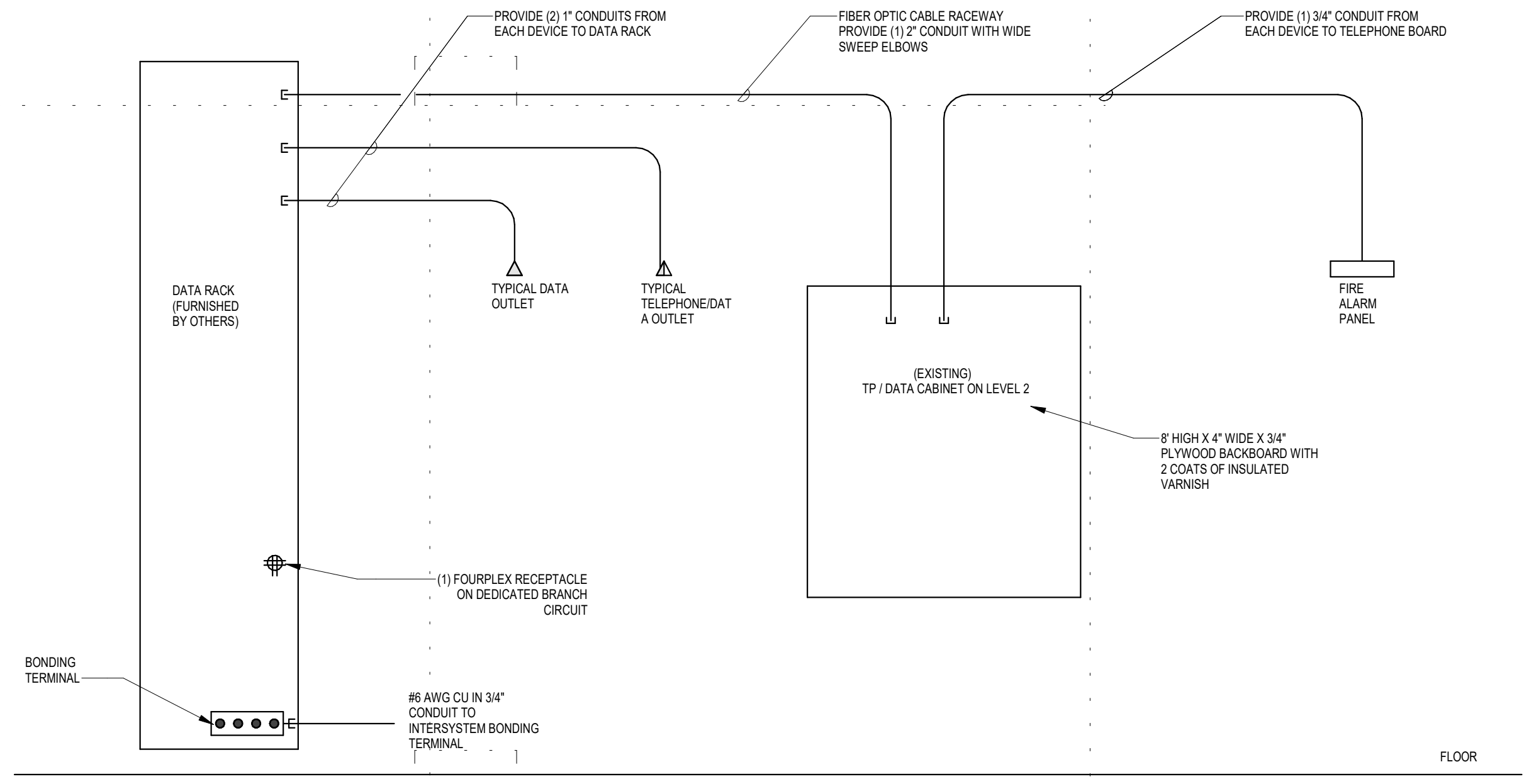


7 RECESSED FIXTURE MOUNTING DIAGRAM
EE501 NO SCALE



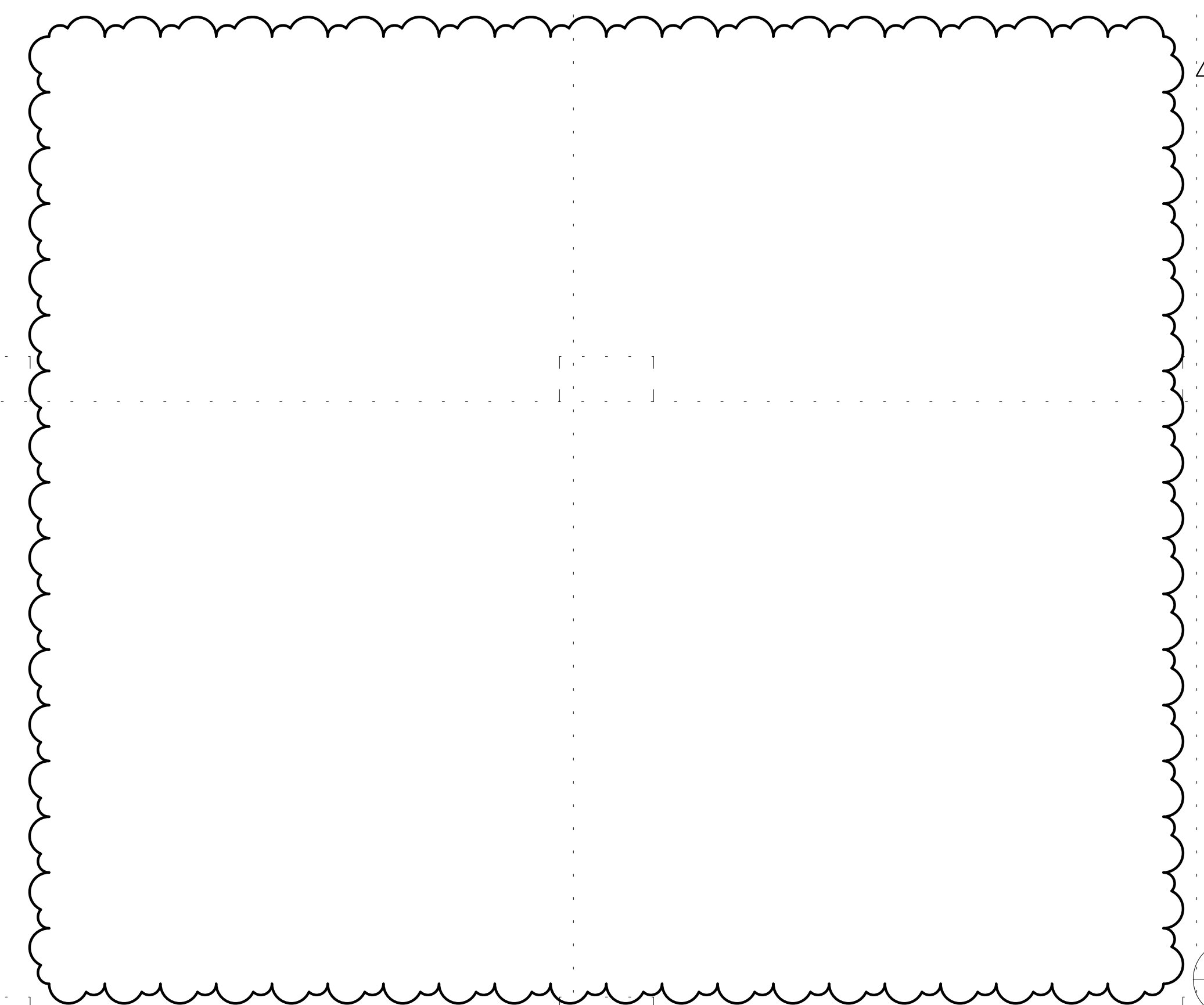
1 MOUNTING HEIGHT DETAIL
EE501 NO SCALE

NOTES:
1. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL TELEVISION OUTLETS WITH THE ARCHITECT PRIOR TO INSTALLATION.
2. ALL DEVICES SHOWN ON THE DETAIL ARE FOR REFERENCES OF MOUNTING HEIGHTS ONLY. THE ELECTRICAL CONTRACTOR SHALL FIELD ADJUST THE HEIGHTS OF THE DEVICES AS REQUIRED FOR PROPER MOUNTING OF THE DEVICES.
3. ALL DEVICES REQUIRED FOR THE PROJECT MAY NOT APPEAR ON THIS DETAIL. ALL ITEMS SHOWN ON THIS DETAIL MAY NOT BE REQUIRED FOR THIS PROJECT.
4. FIRE ALARM NOTIFICATIONS ARE TO BE MOUNTED NO HIGHER THAN 96" AND NO LOWER THAN 80" ON CENTER.

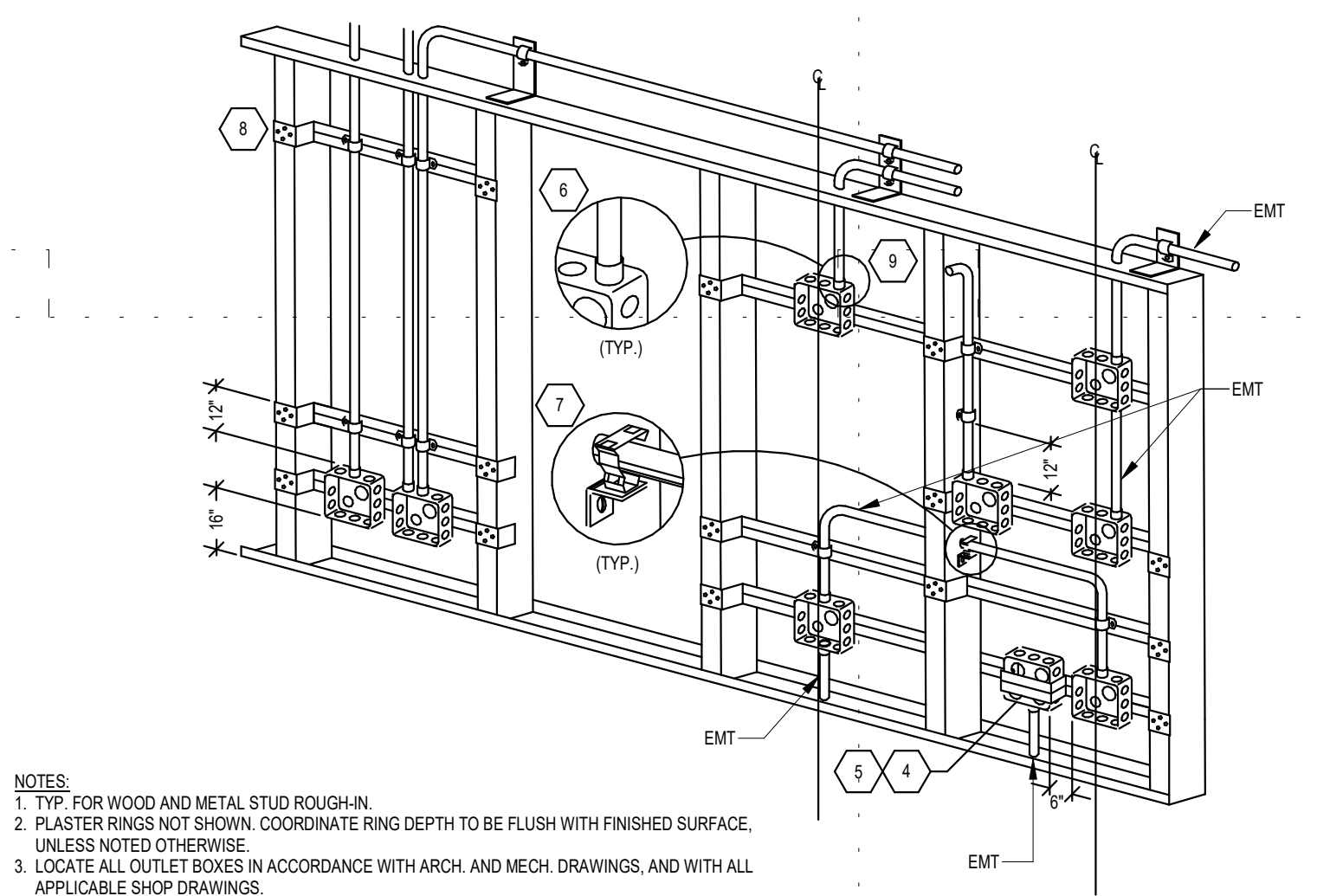


2 TELEPHONE/DATA RACEWAY DIAGRAM
EE501 NO SCALE

NOTES:
1. PROVIDE PULLCORD IN ALL EMPTY RACEWAYS.
2. BOND ALL RACEWAY AND METAL RACKS TO BONDING TERMINAL.
3. PROVIDE BLANK COVERPLATES ON ALL UNUSED BOXES.



3 ROUGH-IN DETAIL
EE501 NO SCALE

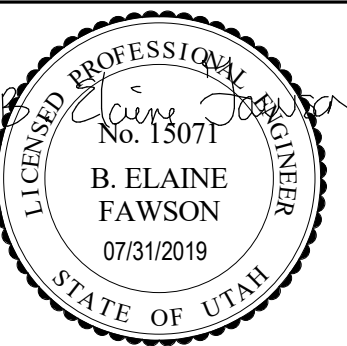


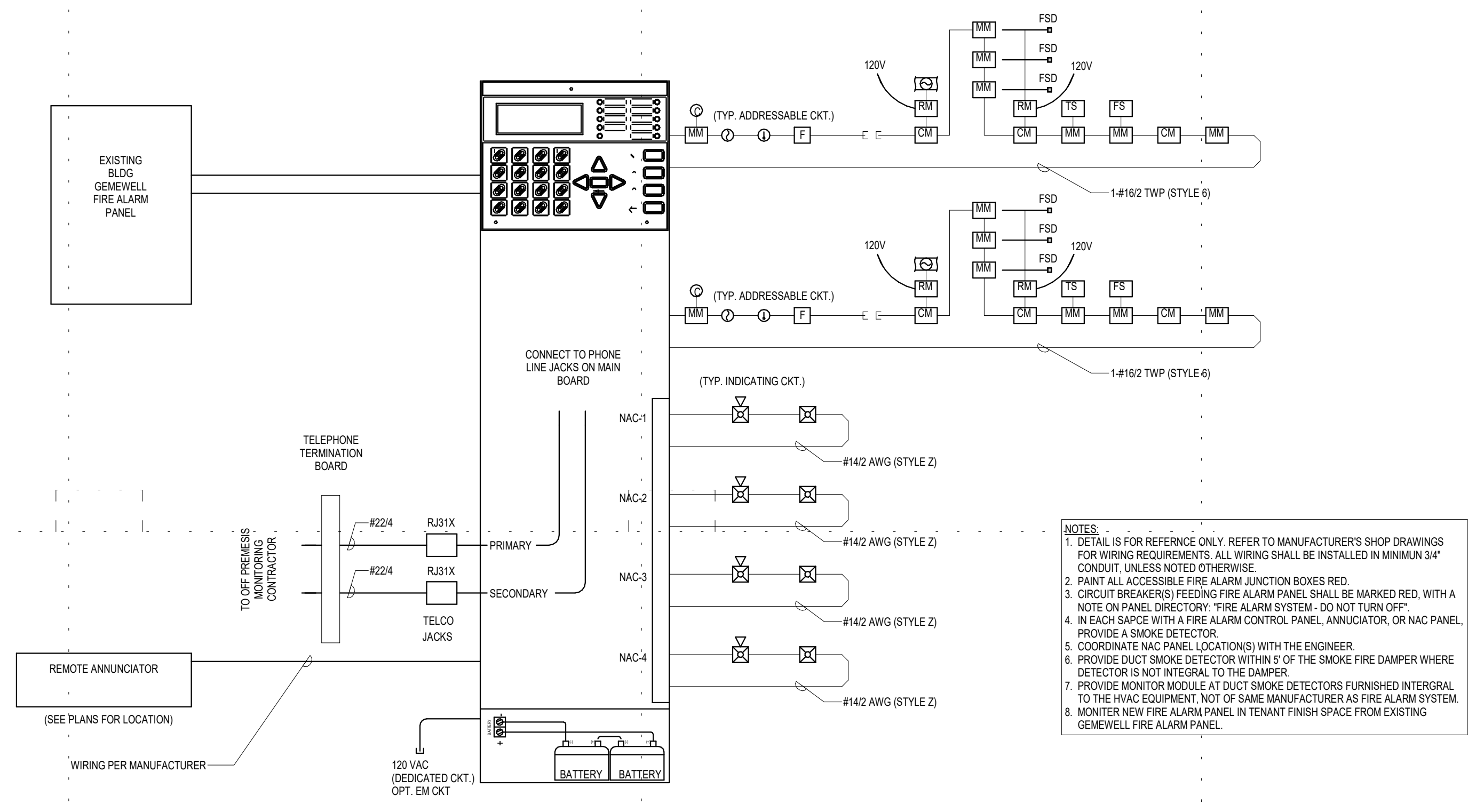
8 RACEWAY SUPPORT METHODS DIAGRAM
EE501 NO SCALE

NOTES:
1. WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER SYSTEM.
2. DO NOT NOT SUPPORT ANY RACEWAY THAN THAN 1" FROM BOTTOM CORD OF STEEL TRUSSES.

NOTES:
1. TYP. FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN. COORDINATE RING DEPTH TO BE FLUSH WITH FINISHED SURFACE, UNLESS NOTED OTHERWISE.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCH. AND MECH. DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACEMUST BE SEPARATED BY A MIN. OF 6" HORIZONTAL DISTANCE.
5. ELECTRICAL BOXES INSTALLED IN FIRE RESISTANT WALLS OR PARTITIONS SHALL COMPLY WITH IBC 714.3.2.
6. INSULATED THOAT EMT CONNECTOR.
7. CADDY FASTENER THROUGH STUD CABLE/CONDUIT SUPPORT FB12P.
8. ADJUSTABLE BAR HANGER.
9. TYPICAL DEVICE JUNCTION BOX.

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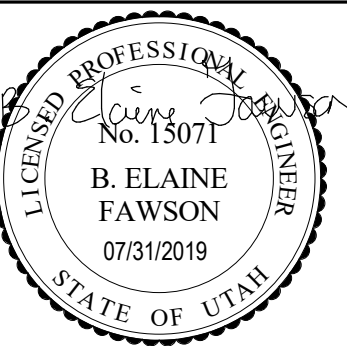




- NOTES:**
1. DETAIL IS FOR REFERENCE ONLY. REFER TO MANUFACTURER'S SHOP DRAWINGS FOR WIRING REQUIREMENTS. ALL WIRING SHALL BE INSTALLED IN MINIMUM 3/4" CONDUIT, UNLESS NOTED OTHERWISE.
 2. PAINT ALL ACCESSIBLE FIRE ALARM JUNCTION BOXES RED.
 3. CIRCUIT BREAKER(S) FEEDING FIRE ALARM PANEL SHALL BE MARKED RED, WITH A NOTE ON PANEL DIRECTORY: "FIRE ALARM SYSTEM - DO NOT TURN OFF".
 4. IN EACH SPACE WITH A FIRE ALARM CONTROL PANEL, ANNUNCIATOR, OR NAC PANEL, PROVIDE A SMOKE DETECTOR.
 5. COORDINATE NAC PANEL LOCATION(S) WITH THE ENGINEER.
 6. PROVIDE DUCT SMOKE DETECTOR WITHIN 5' OF THE SMOKE FIRE DAMPER WHERE DETECTOR IS NOT INTEGRAL TO THE DAMPER.
 7. PROVIDE MONITOR MODULE AT DUCT SMOKE DETECTORS FURNISHED INTERGRAL TO THE HVAC EQUIPMENT, NOT OF SAME MANUFACTURER AS FIRE ALARM SYSTEM.
 8. MONITOR NEW FIRE ALARM PANEL IN TENANT FINISH SPACE FROM EXISTING GEMEVELL FIRE ALARM PANEL.

LEVEL 1
1 FIRE RISER DIAGRAM
 EE502 NO SCALE

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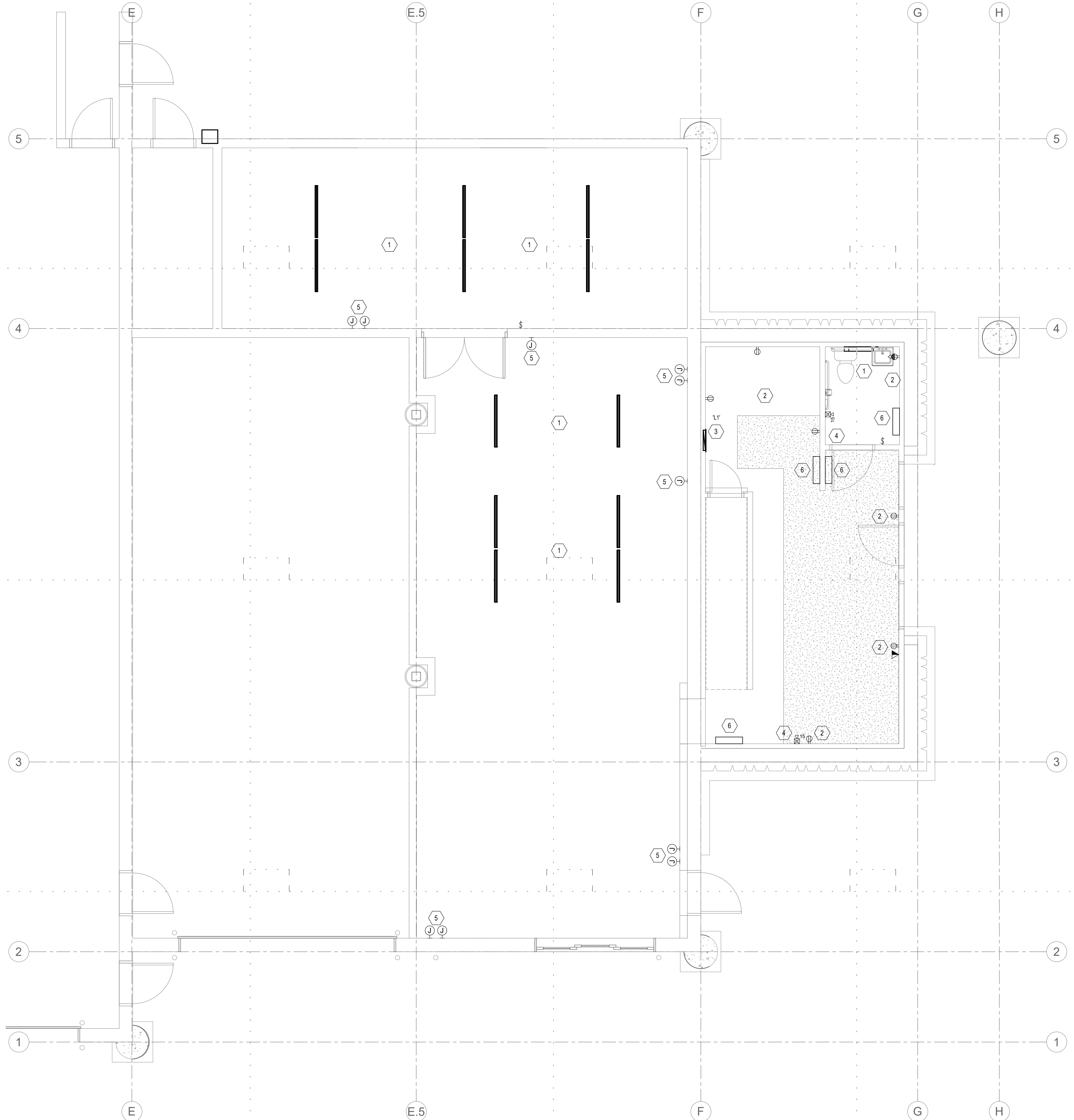


ELECTRICAL
DETAILS

EE502

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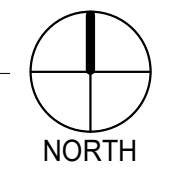
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KEYED NOTES

- 1 REMOVE EXISTING LIGHT FIXTURES AND RETURN TO THE OWNER, OR PROPERLY DISPOSE OF. REMOVE EXISTING LIGHT SWITCHES. REMOVE EXISTING EXPOSED CONDUIT AND REMOVE WIRING BACK TO THE PANEL, OR TO THE FIRST ACTIVE LIGHT OUTSIDE THE REMODEL AREA THAT REMAINS IN SERVICE. PROVIDE ALL WORK REQUIRED TO MAINTAIN EXISTING LIGHTS ON OUTSIDE THE REMODEL AREA IN SERVICE.
- 2 REMOVE EXISTING RECEPTACLES AND REPLACE WITH NEW RECEPTACLES AND COVERPLATES. EXTEND WIRING TO EXISTING PANEL L1 AS REQUIRED.
- 3 EXISTING PANEL L1 TO REMAIN AT EXISTING LOCATION. MAINTAIN NEC CLEARANCES.
- 4 REMOVE EXISTING GAMEWELL FIRE ALARM HORN/STROBE. MAINTAIN EXISTING FIRE ALARM LOOP.
- 5 PROVIDE BLANK COVERPLATES OVER EXISTING JUNCTION BOXES WHICH REMAIN IN SERVICE.
- 6 REMOVE WIRING FROM EXISTING WALL HEATERS BACK TO THE PANEL.

1 LEVEL 1 ELECTRICAL DEMOLITION PLAN
ED101 1/4" = 1'-0"



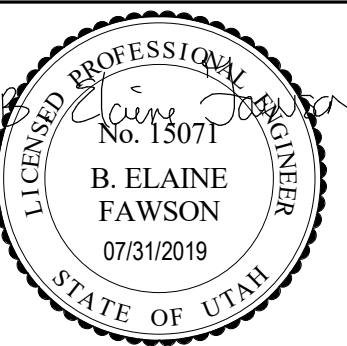
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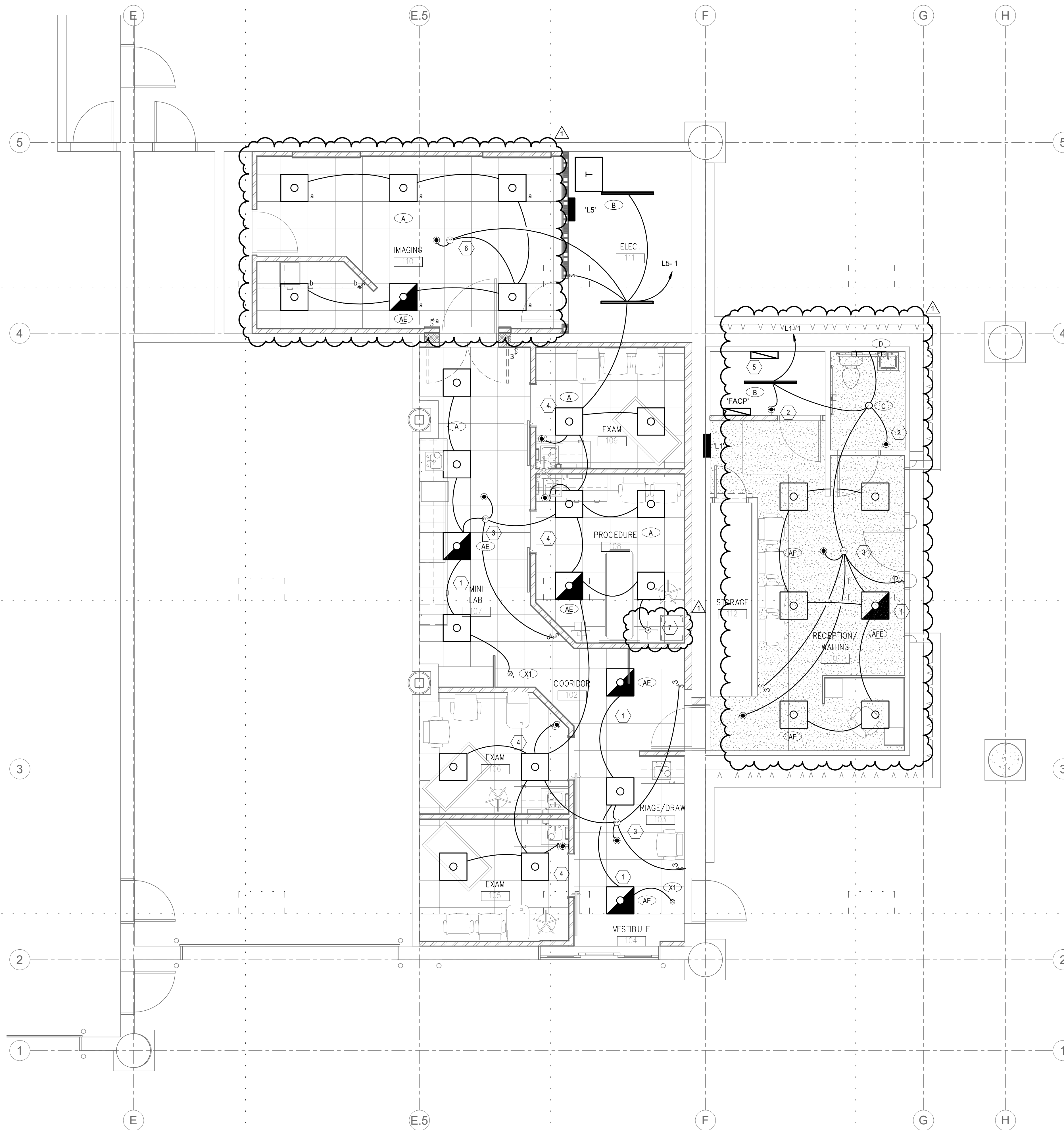


LEVEL 1 ELECTRICAL DEMOLITION PLANS

ED101

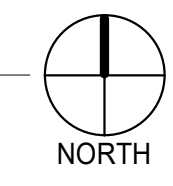
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- KEYED NOTES**
- 1 EXTEND A HOT CONDUCTOR AHEAD OF THE POWER PACK OR VACANCY SENSOR TO THE EMERGENCY BATTERY PACK. USE SAME CIRCUIT PROVIDED FOR NORMAL OPERATION OF THE FIXTURES.
 - 2 PROVIDE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR SWITCH.
 - 3 PROVIDE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSORS, POWER PACK, LOW VOLTAGE SWITCHES AND LOW VOLTAGE WIRING AS REQUIRED.
 - 4 PROVIDE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR/DIMMER SWITCH AND LOW VOLTAGE WIRING AS REQUIRED.
 - 5 CIRCUIT TO A SPARE 20 AMP 1 POLE CIRCUIT BREAKER IN EXISTING PANEL L1.
 - 6 PROVIDE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSORS, DIMMING MODULES, POWER PACK, LOW VOLTAGE DIMMER SWITCHES AND LOW VOLTAGE WIRING AS REQUIRED.
 - 7 INSTALL OWNER FURNISHED EXAM LIGHT AND CIRCUIT TO ROOM LIGHTING CIRCUIT AS REQUIRED.

1 LEVEL 1 LIGHTING PLAN
 EL101 1/4" = 1'-0"



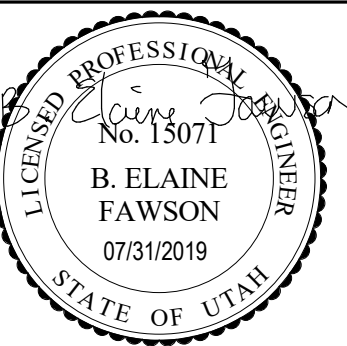
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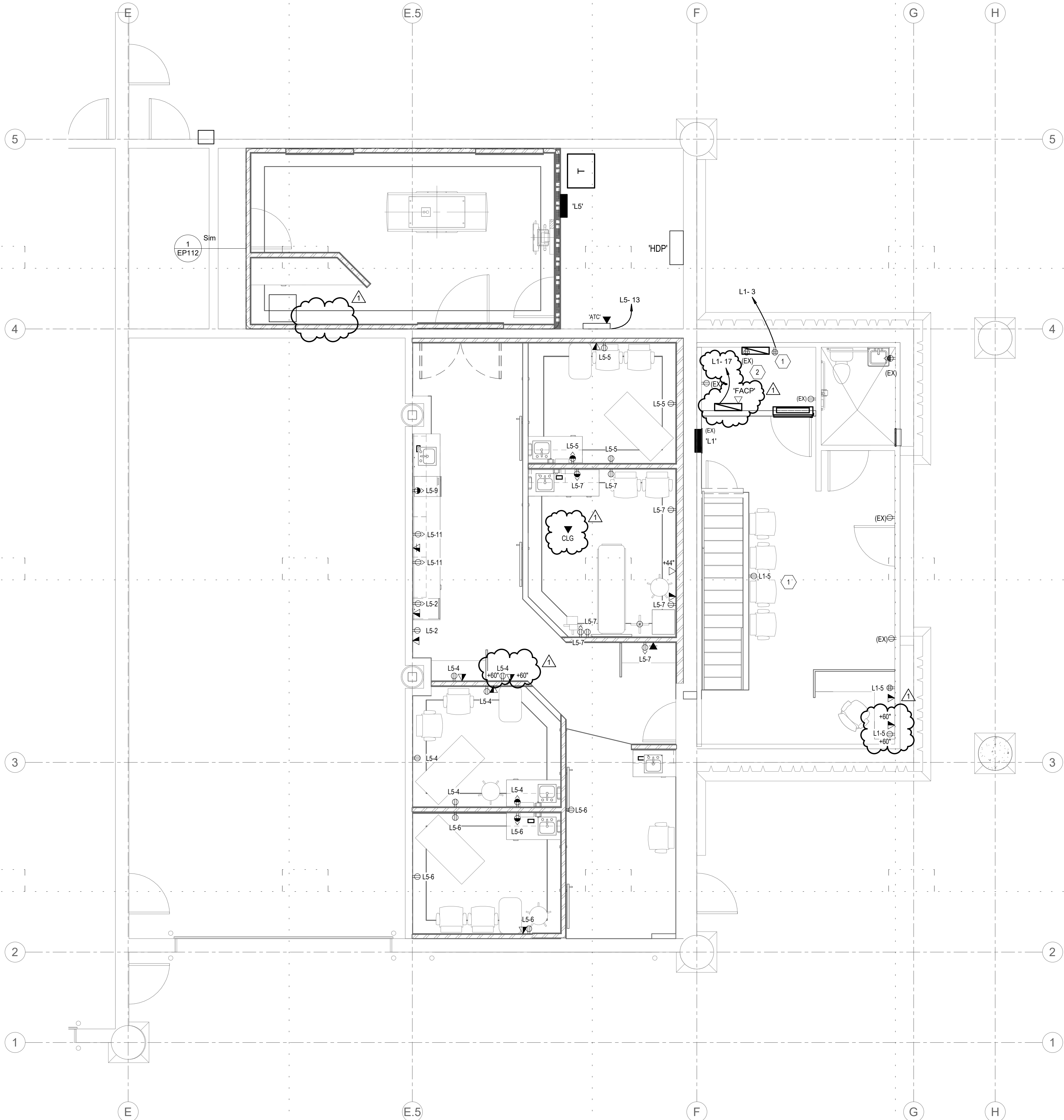


LIGHTING PLAN

EL101

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KEYED NOTES

- 1 CIRCUIT TO A SPARE 20 AMP 1 POLE CIRCUIT BREAKER IN EXISTING PANEL L1.
- 2 NEW WALL MOUNTED DATA RACK FURNISHED AND INSTALLED BY THE OWNER. COORDINATE FOURPLEX RECEPTACLE LOCATION WITH THE CABINET. PROVIDE A 2" CONDUIT TO THE EXISTING DATA RACK ON LEVEL 2 WITH A PULL STRING.

1 LEVEL 1 POWER PLAN
1/4" = 1'-0"



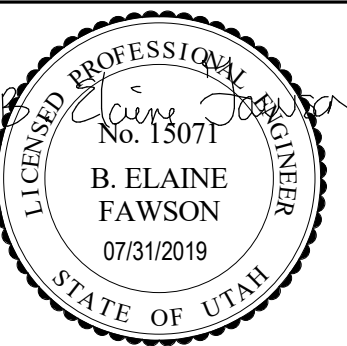
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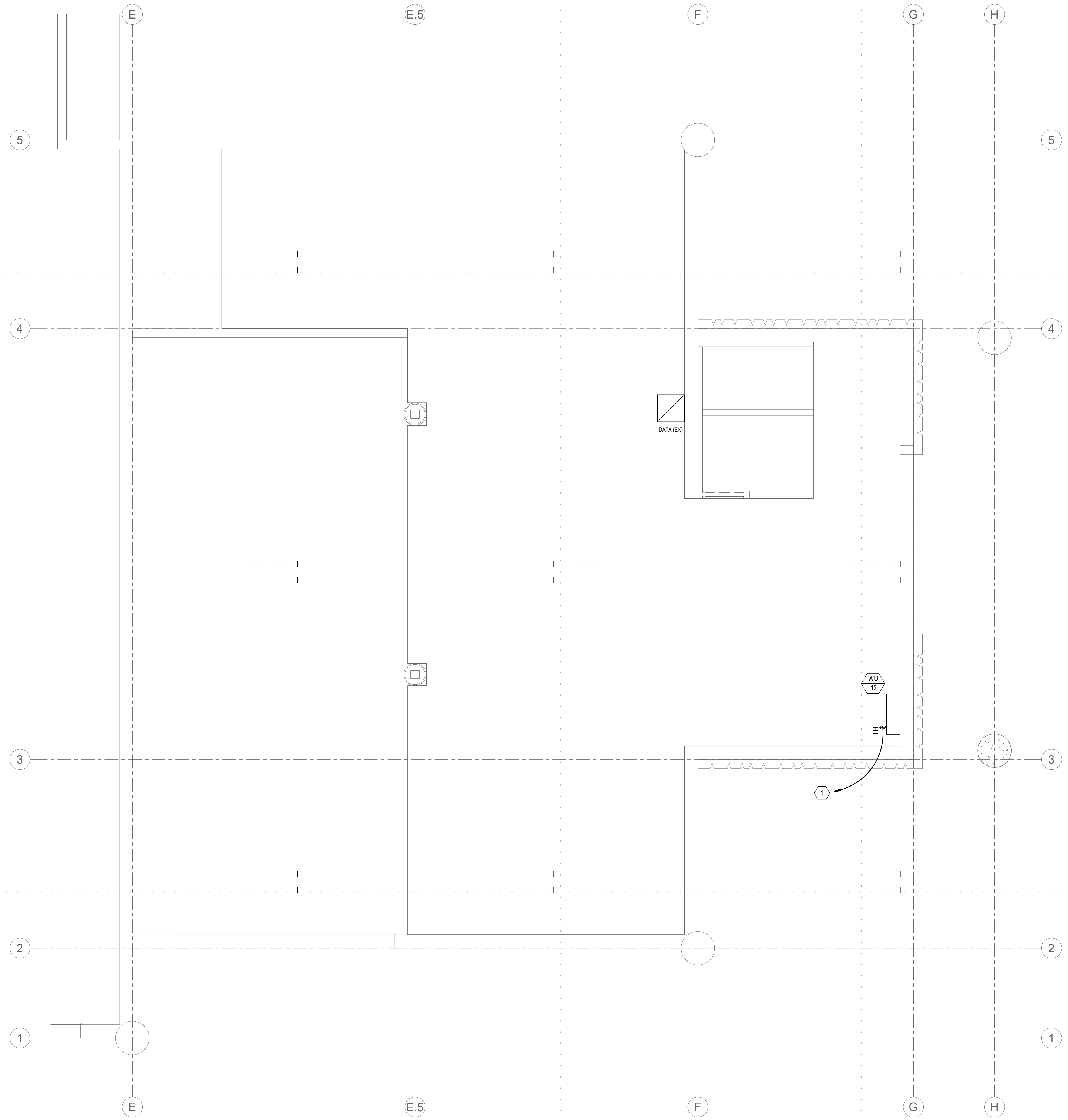


POWER PLAN

EP101

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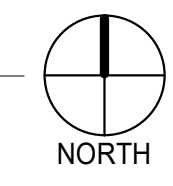
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KEYED NOTES

1 CIRCUIT TO SAME CIRCUIT AS WU-1 BELOW.

1 LEVEL 2 POWER PLAN
EP102 1/4" = 1'-0"



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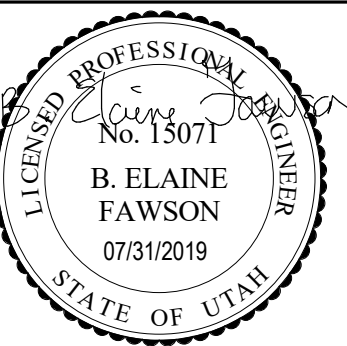
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ARCHITECTS
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INTERMOUNTAIN SNOWBASIN CLINIC

3925 SNOW BASIN RD
HUNTSVILLE, UTAH 84317

PROJECT #: 19328

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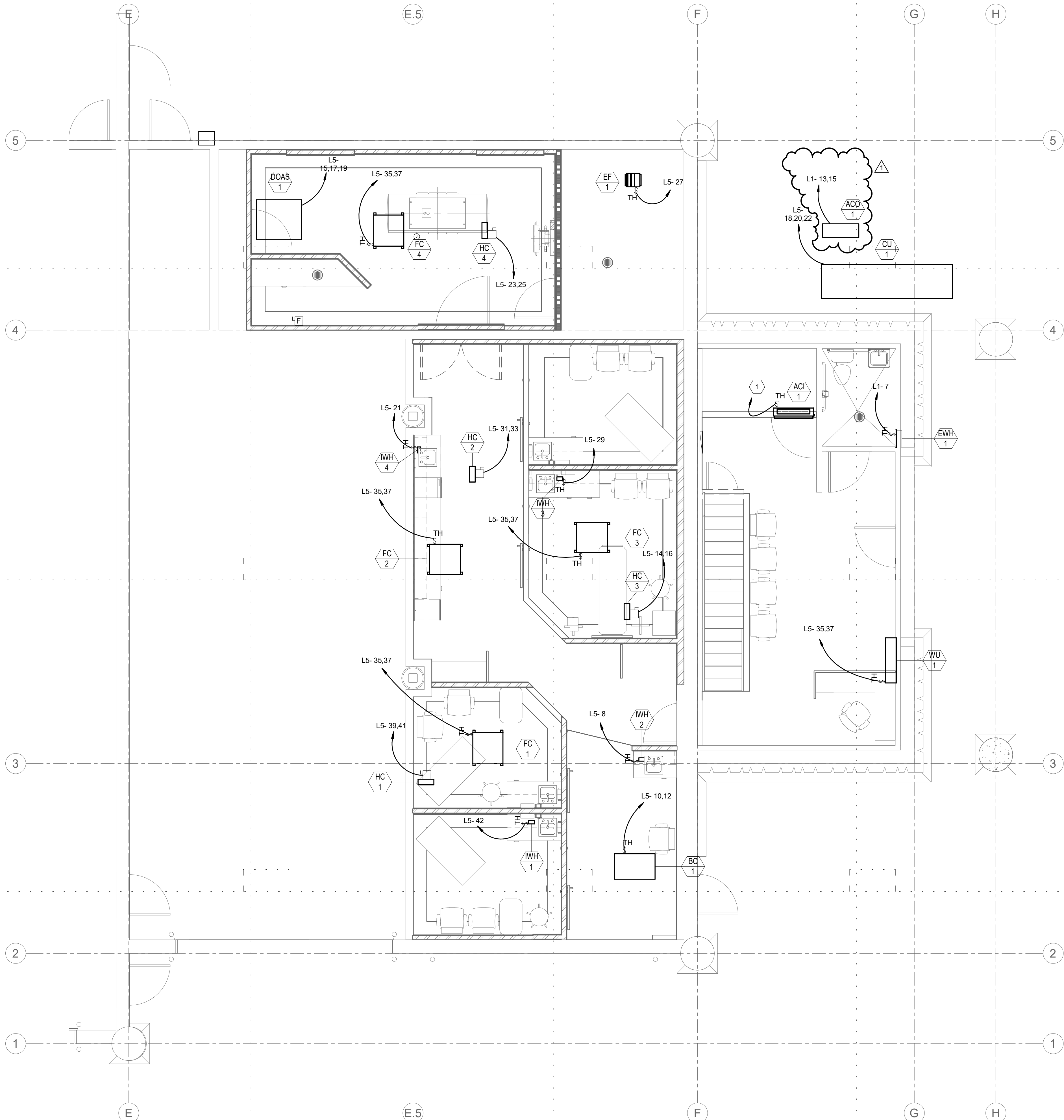


POWER PLAN

EP102

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KEYED NOTES

1 CIRCUIT INDOOR UNIT THROUGH OUT DOOR UNIT.

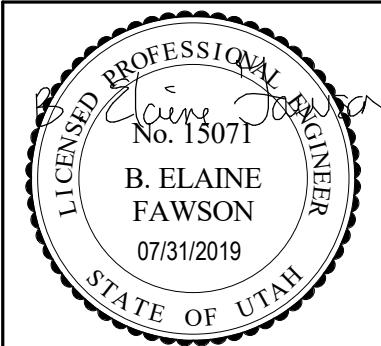
1 LEVEL 1 HVAC PLAN
EP111 1/4" = 1'-0"

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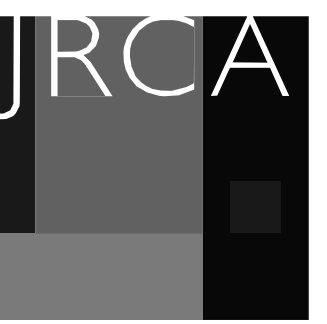
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HVAC POWER PLAN

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EP111



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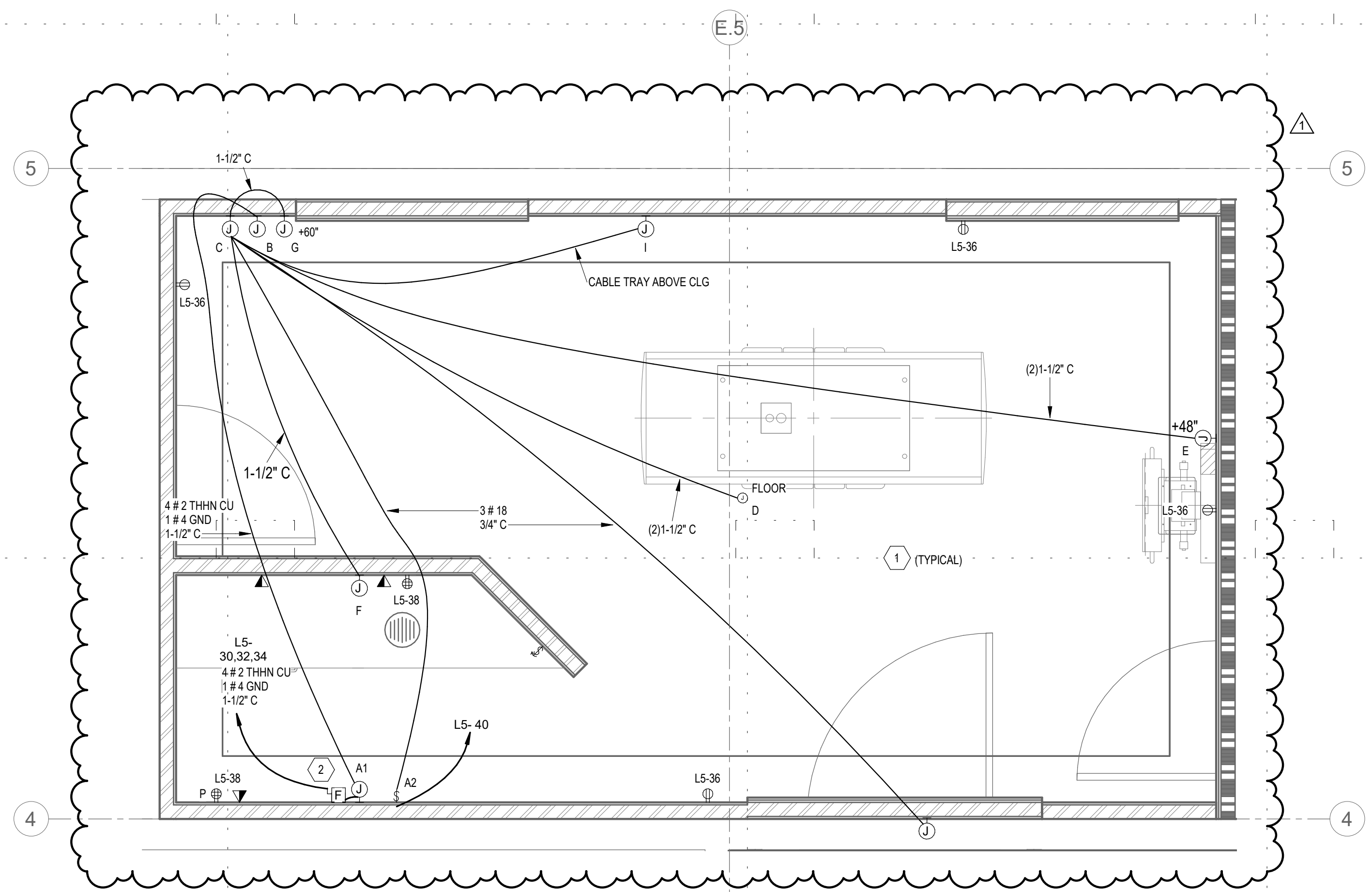
IMAGING ROOM
POWER PLAN

EP112

KEYED NOTES

1 DIVISION 26 INSTALLER SHALL PROVIDE JUNCTION BOXES, RACEWAY, CABLE TRAY, WIRING, AND ENCLOSED CIRCUIT BREAKER FOR X-RAY EQUIPMENT PER SIMONS X-RAY JUNCTION BOX SCHEDULE AND CONSTRUCTION NOTES, CONDUIT SCHEDULE, AND DIMENSIONED DRAWINGS. PROVIDE CUTTING AND PATCHING OF THE FLOOR AND WALLS AS REQUIRED FOR COMPLETE INSTALLATION.

2 PROVIDE 125 AMP 3 POLE 22,000 A.I.C ENCLOSED CIRCUIT BREAKER OR FUSED DISCONNECT SWITCH FOR X-RAY EQUIPMENT AT THIS LOCATION.

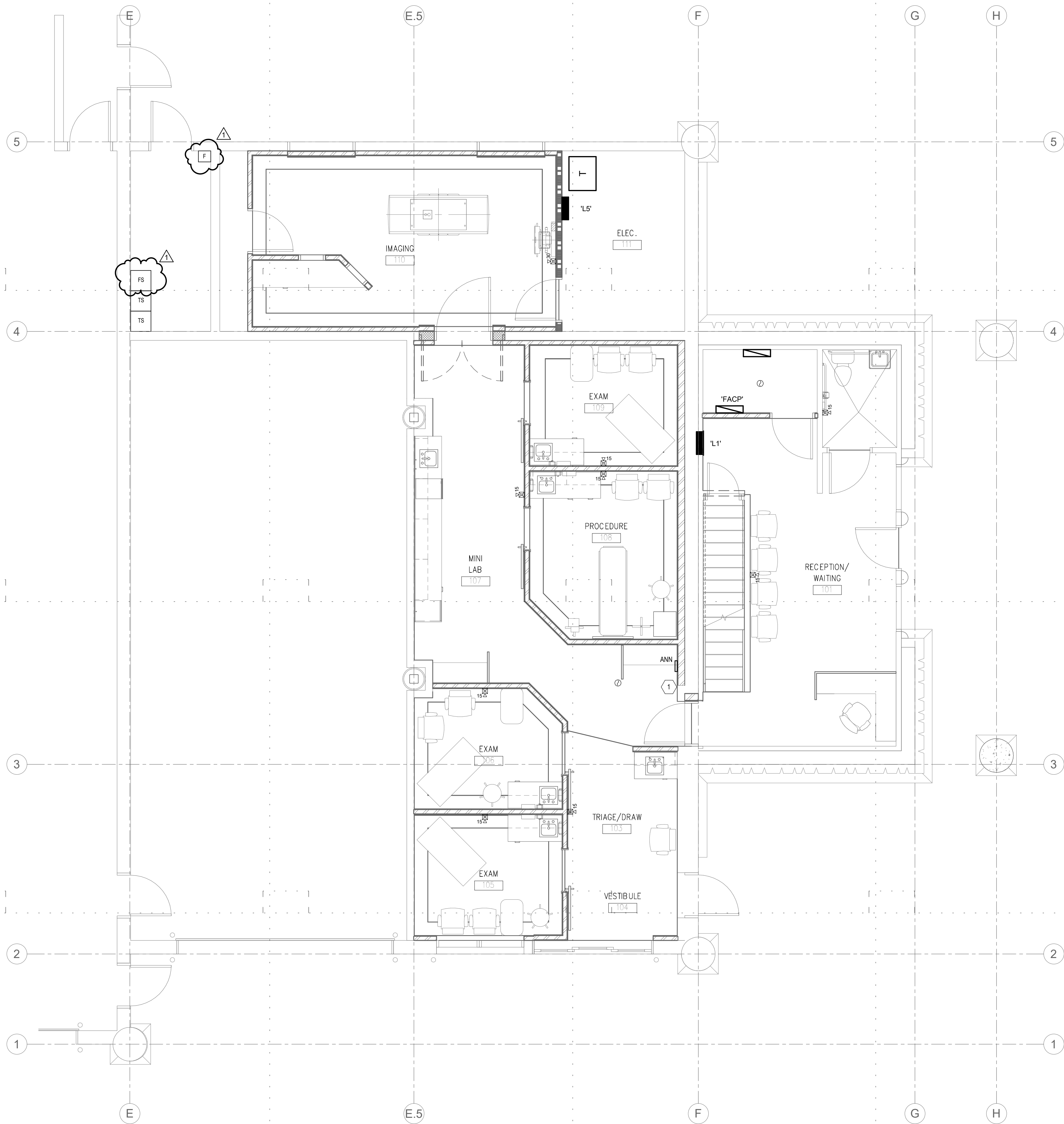


1 IMAGING POWER PLAN
EP112 1/2" = 1'-0"

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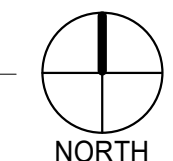
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KEYED NOTES

1 PROVIDE FLUSH MOUNTED FIRE ALARM REMOTE ANNUNCIATOR PANEL

1 LEVEL 1 SYSTEMS PLAN
EY101 1/4" = 1'-0"



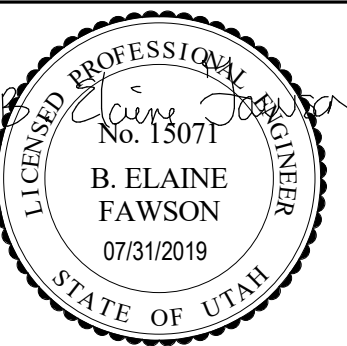
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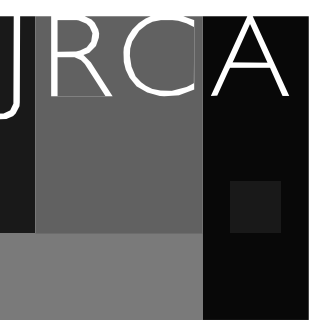
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SYSTEMS PLAN

EY101



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KEYED NOTES

1. ADD NEW 175A 3P 35,000 A.I.C. CIRCUIT BREAKER IN EXISTING 277/480V 3 PHASE CUTLER HAMMER DISTRIBUTION PANEL.

| CONDUCTOR & CONDUIT SCHEDULE - COPPER | | | | | | | |
|---------------------------------------|-----------|------|-----|------|--------|--------------|-------------|
| TYPE | CONDUCTOR | | | | | CONDUIT SIZE | KEYED NOTES |
| | AMP | SETS | QTY | SIZE | EQ GND | | |
| 40-4 | 40 | 1 | 4 | 8 | 10 | 3/4" | 1 |
| 400-4 | 400 | 2 | 4 | #3/0 | 3 | 2-1/2" | 1 |

GENERAL NOTES:

- THHN/THWN/THWN-2 FOR 400 KC MIL AND BELOW, XHHW/XHHW-2 FOR 500 KC MIL AND ABOVE.
- GROUND CONDUCTOR SHALL BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
- SIZE ALL CONDUITS IN ACCORDANCE WITH 2014 NEC CHAP 9, TABLE 1.

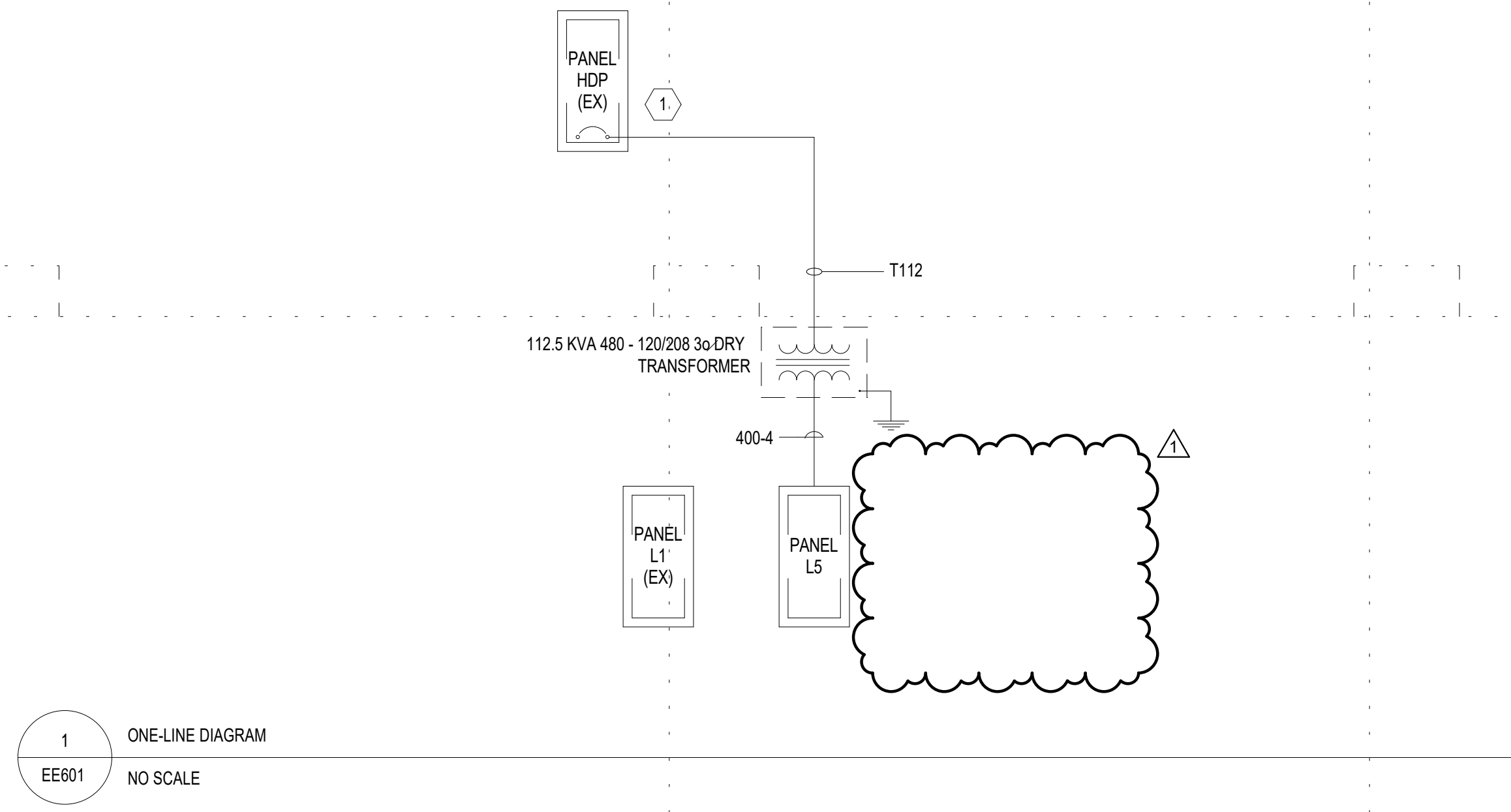
KEYED NOTES:

1. REFER TO 2014 NEC 310.16 FOR 75°C RATED COPPER AND 110.14(C)(1)(a) FOR 60°C COPPER.
2. 200% NEUTRAL (OR 2 NEUTRAL CONDUCTORS).
3. AMPACITY DERATED BY 80% DUE TO (4-6) CURRENT CARRYING CONDUCTORS AND IS BASED ON 2017 NEC 310.16 FOR 90°C RATED COPPER.

| TRANSFORMER FEEDER SCHEDULE - COPPER | | | | | | | | | |
|--------------------------------------|-------|---------|-----|----------------|------|------|--------------|---------------|---------|
| TYPE | KVA | AMPERES | | PRIMARY FEEDER | | | CONDUIT SIZE | GND ELECTRODE | |
| | | PRIM | SEC | QTY | SIZE | E.G. | | SIZE | CONDUIT |
| T112 | 112.5 | 136 | 312 | 3 | #1/0 | 6 | 1-1/2" | #1/0 | 3/4" |

GENERAL NOTES:

- REPRESENTATIVE OF STEP-DOWN DRY-TYPE TRANSFORMERS CONFIGURED TO 480V (DELTA PRIMARY) AND 208Y/120V (WYE SECONDARY), 3 PHASE.
- GROUNDING ELECTRODE CONDUCTOR SHALL BE OF TYPE THHN CU IN EMT CONDUIT.
- SIZE ALL CONDUITS IN ACCORDANCE WITH 2014 NEC CHAP 9, TABLE 1.
- COPPER THW FOR PRIMARY FEEDERS.



1 ONE-LINE DIAGRAM
EE601 NO SCALE

INTERMOUNTAIN SNOWBASIN CLINIC
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ONE-LINE DIAGRAM

EE601

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