

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AND ONE INCH WIDE

SYMBOLS LEGEND table with columns SYMBOL and DESCRIPTION. Includes sections for REFERENCE AND LINE SYMBOLS, WIRING METHODS, and ELECTRICAL EQUIPMENT INDICATORS.

SYMBOLS LEGEND table with columns SYMBOL and DESCRIPTION. Includes sections for WIRING DEVICES, ELECTRICAL POWER AND DISTRIBUTION, and various electrical symbols.

SYMBOLS LEGEND table with columns SYMBOL and DESCRIPTION. Includes sections for ELECTRICAL POWER AND DISTRIBUTION, TRANSFORMERS, and various electrical symbols.

ABBREVIATIONS table with columns SYMBOL and DESCRIPTION. Includes a note: ALL ABBREVIATIONS MAY NOT BE USED. Lists various electrical abbreviations like 1P, 1PH, 1WAY, etc.

GENERAL ELECTRICAL NOTES table with columns NUMBER and DESCRIPTION. Contains 6 numbered notes regarding clarification methods, owner furnished items, and reflected ceiling plans.

ELECTRICAL SHEET INDEX table with columns SHEET NUMBER and DESCRIPTION. Lists sheets from EE001 to EY602.

DEFINITIONS table with columns TERM and DEFINITION. Includes a note: ALL DEFINITIONS MAY NOT BE USED. Defines terms like INDICATED, DIRECTED, APPROVED, etc.

Vertical sidebar containing logos for ENVIRONMENTS FOR HEALTH ARCHITECTURE, Intermountain Healthcare, SPECTRUM ENGINEERS, and INTERMOUNTAIN HEALTHCARE HOSPITAL - CT REMODEL. Includes project information and a professional engineer seal for Jason R. Worthen.

THE LINE SHOWN ABOVE IS EXACTLY
AS SHOWN ON THESE SHEETS
ON THE SAME PAGE SIZE

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).
	PANELBOARD WITH SUB FEED LUGS (ONE-LINE DIAGRAM).
	PANELBOARD WITH CIRCUIT BREAKER AND SUB FEED LUGS (ONE-LINE DIAGRAM).
	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
	TRANSFER SWITCH (ONE-LINE DIAGRAM).
	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
	EARTH GROUND (ONE-LINE DIAGRAM).
	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
	GENERATOR, ANNUNCIATOR (ONE-LINE DIAGRAM).
	PUSH BUTTON, REMOTE EMERGENCY STOP.
	GENERATOR, POWER (ONE-LINE DIAGRAM).
	KIRK-KEY MECHANICAL INTERLOCK (ONE-LINE DIAGRAM).
	METER.
	BROAD BAND FILTER (ONE-LINE DIAGRAM).
	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
	DIODE (ONE-LINE DIAGRAM).
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	STARTER OR MOTOR CONTROLLER.
	PUSHBUTTON.
	PUSHBUTTONS, MOTOR CONTROL.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
	DISTRIBUTION PANEL OR SWITCHBOARD.
	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
	TRANSFORMER (SEE ONE-LINE FOR SIZE)
	BUSWAY.
	SPECIALIZED TRANSFER SWITCH (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, DRAW OUT (ONE-LINE DIAGRAM).
	GENERATOR ENGINE START MONITORING SYSTEM GENERATOR MODULE (ONE-LINE DIAGRAM).
	GENERATOR ENGINE START MONITORING SYSTEM ATS MODULE (ONE-LINE DIAGRAM).
	PHASE ROTATION MONITOR (ONE-LINE DIAGRAM).

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
LIGHTING	
	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
	FIXTURE IDENTIFICATION: EMERGENCY LIGHTING FIXTURE WITH BATTERY PACK AND/ OR GENERATOR AND/ OR CENTRALIZED INVERTER AND/ OR CENTRALIZED UPS CONNECTION AS INDICATED IN PLANS. (W-3E) INDICATES FIXTURE TYPE AS SCHEDULED.
	EMERGENCY.
	NIGHT LIGHT: DO NOT SWITCH.
	EGRESS DIRECTION ARROW (EXIT SIGNS).
	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
	EXIT SIGN: SINGLE FACE; WALL MOUNTED
	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
	EXIT SIGN: DOUBLE FACE; WALL MOUNTED
LIGHTING CONTROL	
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
	PHOTOCELL.
	PHOTOCELL, WALL MOUNTED.
	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	VACANCY SENSOR, DUAL TECHNOLOGY, WALL.
	CEILING FAN.
	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
	SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
	DIMMER SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
	DIMMER SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
	LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER "a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS)
	DIGITAL LIGHTING ROOM CONTROLLER
	DIGITAL LIGHTING DIMMING CONTROLLER
	DIGITAL PLUG LOAD CONTROLLER
	LIGHTING NETWORK SWITCH.
	LIGHTING NETWORK ROUTER.
	LIGHTING NETWORK SEGMENT MANAGER
	LIGHTING NETWORK BRIDGE
	LIGHTING EMERGENCY TRANSFER DEVICE
	LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE SCHEDULE / DIAGRAM.
TWO-WAY COMMUNICATIONS	
	TWO-WAY COMMUNICATIONS MAIN CONTROL STATION (ANNUNCIATOR)
	TWO-WAY COMMUNICATIONS REMOTE CALL STATION
	DATA CONNECTION: TWO-WAY EMERGENCY COMMUNICATION SYSTEM.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
FIRE ALARM	
	FIRE ALARM ANNUNCIATOR PANEL.
	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
	FIRE ALARM TERMINAL CABINET: NAC, SLC, SPEAKER CIRCUITS; AMPLIFIERS, BATTERIES
	CONTROL PANEL FOR HVAC: SMOKE CONTROL, STAIR PRESSURIZATION.
	VOICE EVACUATION PANEL.
	PRE-ACTION CONTROL PANEL.
	REMOTE VOICE EVACUATION MICROPHONE.
	FIRE PUMP CONTROLLER.
	JOCKEY PUMP CONTROLLER.
	AUTOMATIC DOOR CLOSERS. DOOR CLOSERS SHALL BE FURNISHED WITH DOOR HARDWARE AND CONNECTED BY FIRE ALARM INSTALLER.
	CONTROL MODULE.
	MONITOR MODULE.
	FIRE ALARM MANUAL PULL STATION.
	SHUT DOWN RELAY. INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
	WATER FLOW SWITCH. FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	VALVE SUPERVISORY SWITCH, TAMPER SWITCH. TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	PRESSURE SUPERVISORY SWITCH. PRESSURE SWITCHES SHALL BE PROVIDED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	MAGNETIC DOOR HOLDER.
	DETECTOR, SMOKE.
	DETECTOR, SMOKE, WALL MOUNTED.
	DETECTOR, SMOKE WITH AUXILIARY CONTACT.
	DETECTOR, SMOKE, BEAM RECEIVER.
	DETECTOR, SMOKE, BEAM TRANSMITTER.
	DETECTOR, SMOKE, ELEVATOR RECALL DESIGNATION.
	DETECTOR, SMOKE WITH GUARD.
	DETECTOR, SMOKE, RESIDENTIAL.
	DETECTOR, SMOKE WITH STROBE.
	DETECTOR, SMOKE, RESIDENTIAL WITH SOUNDER BASE.
	DETECTOR, SMOKE, AIR SAMPLING SYSTEM PORT LOCATION.
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
	SMOKE DAMPER, 120V POWER FROM ELECTRICAL SYSTEM.
	COMBINATION FIRE/SMOKE DAMPER, 120V POWER FROM ELECTRICAL SYSTEM.
	REMOTE ALARM INDICATING AND TEST SWITCH.
	DETECTOR, HEAT.
	DETECTOR, CARBON MONOXIDE.
	STROBE, WALL MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, HORN/SPEAKER, WALL MOUNTED, WEATHERPROOF.
	ALARM, HORN/STROBE, WALL MOUNTED, ONE ASSEMBLY. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, CHIME/STROBE, WALL MOUNTED, ONE ASSEMBLY.
	ALARM, HORN/STROBE WITH GUARD, WALL MOUNTED, ONE ASSEMBLY.
	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	SPEAKER/STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	SPEAKER, CEILING MOUNTED.
	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
NURSE CALL	
	JUNCTION BOX.
	CORRIDOR LIGHT.
	BATHROOM PULL CORD STATION.
	DUTY STATION.
	EMERGENCY ASSISTANCE CALL STATION.
	EMERGENCY ASSISTANCE CODE BLUE CALL STATION.
	PATIENT STATION.
	STAFF STATION.
	TOUCH SCREEN NURSE CALL MASTER STATION.
	ZONE LIGHT CONTROLLER.
	NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.
SECURITY	
	SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.
	ACCESS CONTROL HEADEND EQUIPMENT.
	SECURITY CONTROL PANEL.
	INTRUSION DETECTION HEADEND EQUIPMENT.
	CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.
	CARD READER.
	KEYPAD/CARD READER COMBINATION.
	DOOR SWITCH, BALANCED MAGNETIC CONTROL.
	EXIT REQUEST.
	REMOTE DOOR RELEASE BUTTON.
	BELL.
	BUZZER.
	BUZZER, COMBINATION BELL.
	SENSOR, BURIED VEHICULAR.
	SENSOR, GLASS BREAK.
	SENSOR, VOLUMETRIC.
	CONTROLLED ACCESS POINT.
	INTERCOM STATION.
	DUAL TECHNOLOGY PASSIVE INFRARED SENSOR AND ULTRASONIC MOTION DETECTOR.
	PASSIVE INFRARED SENSOR.
	PANIC DURESS SWITCH.
	ULTRASONIC MOTION DETECTOR.
	ANNUNCIATOR PANEL.
	MASTER STATION, INTERCOM.
TV DISTRIBUTION	
	TV DISTRIBUTION CABLE, INDIVIDUAL DROPS.
	TV DISTRIBUTION CABLE, TRUNK.
	COMBINER.
	DIRECTIONAL COUPLER.
	DISTRIBUTION AMPLIFIER (ONE-LINE DIAGRAM).
	SPLITTER (ONE-LINE DIAGRAM).
	TV OUTLET.
	SATELLITE ANTENNA.
	TV ANTENNA (ONE-LINE DIAGRAM).
	TERMINATOR, 75 OHM (TV DISTRIBUTION).

ENVIRONMENTS FOR HEALTH ARCHITECTURE
 e4h
 833 South 200 East, SLC, UT 84111
 888.781.8441 | 801.595.6400
 BOSTON | BURLINGTON | DALLAS | FT. WORTH | NASHVILLE
 NEW YORK | PORTLAND | SALT LAKE CITY | WASHINGTON DC
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Intermountain Healthcare

SPECTRUM ENGINEERS
 324 S. State St., Suite 400
 Salt Lake City, UT 84111
 800-678-7077
 801-328-5151
 www.spectrum-engineers.com

INTERMOUNTAIN HEALTHCARE
INTERMOUNTAIN HEALTH CARE LAYTON HOSPITAL - CT REMODEL
 201 LAYTON PARKWAY
 LAYTON, UT 84041
 PROJECT: 702202

DATE	DESCRIPTION

PROFESSIONAL ENGINEER
 No. 1178781-2202
 JASON R. WORTHEN
 STATE OF UTAH
 09/28/2022

ORIG SUBMISSION: 09/28/22
CURRENT: CONSTRUCTION DOCUMENTS
 SHEET TITLE AND NUMBER:
EE002
 SYMBOLS LEGEND

COPPER PATCH CORD SCHEDULE

(CATEGORY 6A F/UTP CABLES W/RJ-45 CONNECTORS)

Table with 4 columns: LENGTH (FEET), COLOR, QUANTITY, UNIT COST (EACH). Rows for 5', 7', and 10' lengths.

COPPER PATCH CORD SCHEDULE

(CATEGORY 5E CABLES W/RJ-45 CONNECTORS)

Table with 4 columns: LENGTH (FEET), COLOR, QUANTITY, UNIT COST (EACH). Rows for 5', 7', and 10' lengths.

FIBER PATCH CORD SCHEDULE

(SINGLE-MODE W/LC CONNECTORS)

Table with 4 columns: LENGTH (METER), COLOR, QUANTITY, UNIT COST (EACH). Rows for 3' and 5' lengths.

WIRELESS PATCH CORD PATCH CORD SCHEDULE

(CATEGORY 6A F/UTP W RJ45 CONNECTORS)

Table with 4 columns: LENGTH (METER), COLOR, QUANTITY, UNIT COST (EACH). Row for 7' length.

CLINICAL ENGINEERING PATCH CORD SCHEDULE

(CATEGORY 6A F/UTP W RJ45 CONNECTORS)

Table with 4 columns: LENGTH (METER), COLOR, QUANTITY, UNIT COST (EACH). Rows for 5' and 7' lengths.

CLINIC/HOSPITAL - CABLE/OUTLET COLOR SCHEDULE

Table with 2 columns: COLOR, TYPE. Lists colors like BLACK, BLUE, GREY, ORANGE, RED, WHITE, YELLOW, GREEN and their corresponding types.

CLINIC/HOSPITAL - EQUIPMENT/CABLE LIST

THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION...

Main table listing equipment and cables. Columns: SYMBOL, ITEM DESCRIPTION, ACCEPTABLE TYPES. Includes items like STATION CABLE, FIBER OPTIC CABLE, VOICE OUTLET, etc.

CLINIC/HOSPITAL - GENERAL PROJECT NOTES

- 1. UNLESS OTHERWISE NOTED, INSTALL ALL CABLE INSIDE RACEWAY SYSTEMS.
2. PROVIDE PLENUM RATED CABLE IN ALL AIR PLENUMS.
3. LABEL ALL CABLE INSTALLED UNDER THIS CONTRACT...

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

Table mapping abbreviations to full names. Includes AUGMENTED, CATEGORY, EACH, EQUIPMENT ROOM, etc.

DEFINITIONS

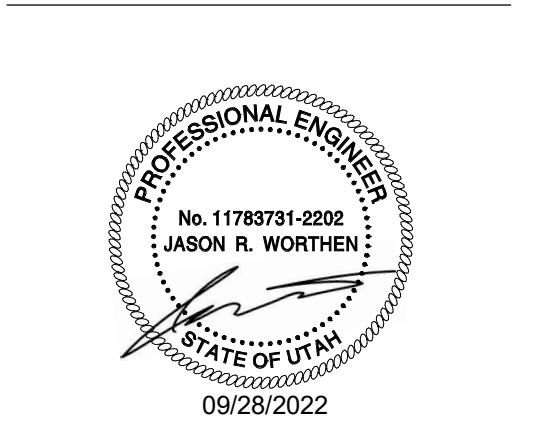
NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS.
DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED"...



INTERMOUNTAIN HEALTHCARE
INTERMOUNTAIN HEALTH CARE LAYTON
HOSPITAL - CT REMODEL
201 LAYTON PARKWAY
LAYTON, UT 84041

Table with 2 columns: DATE, DESCRIPTION. Intended for project updates.

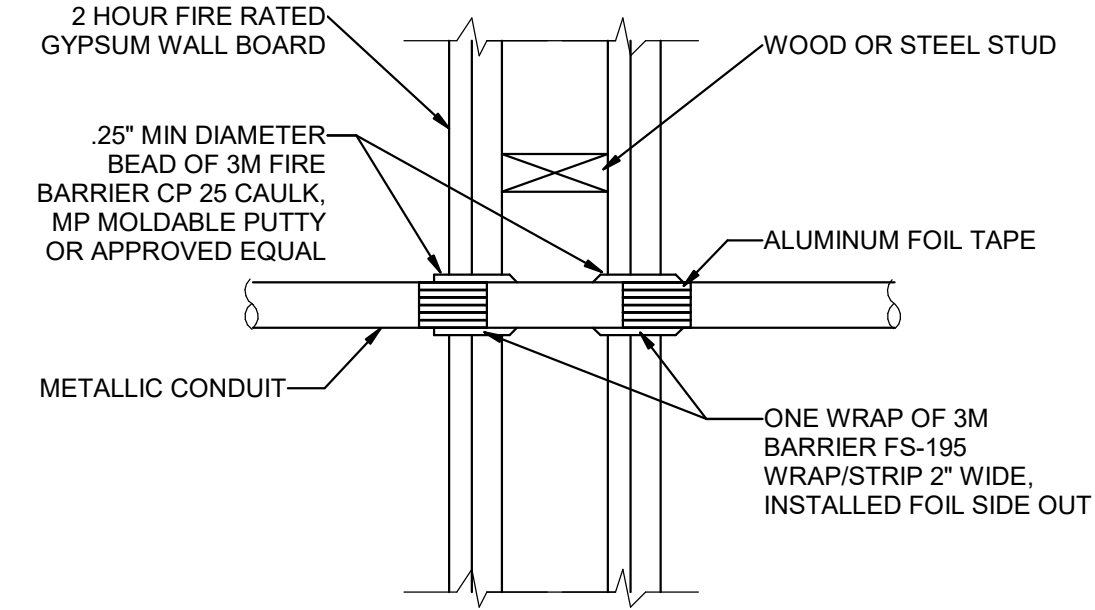


ORIG SUBMISSION: 09/28/22
CURRENT: CONSTRUCTION DOCUMENTS

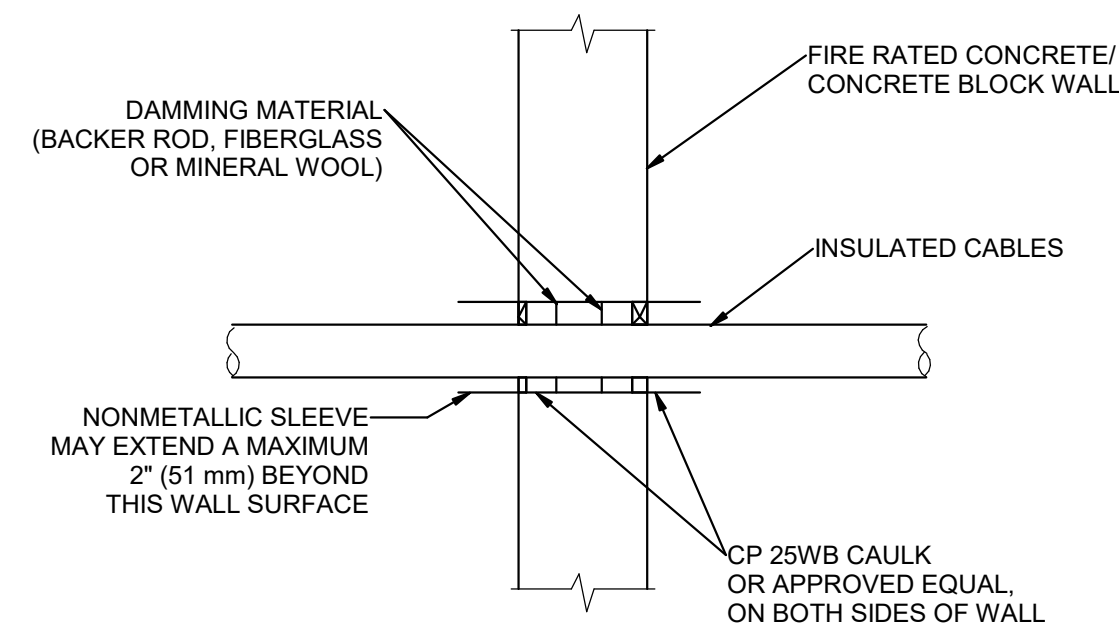
SHEET TITLE AND NUMBER: EE003
TELECOM SCHEDULES AND NOTES

PROJECT: 7022021

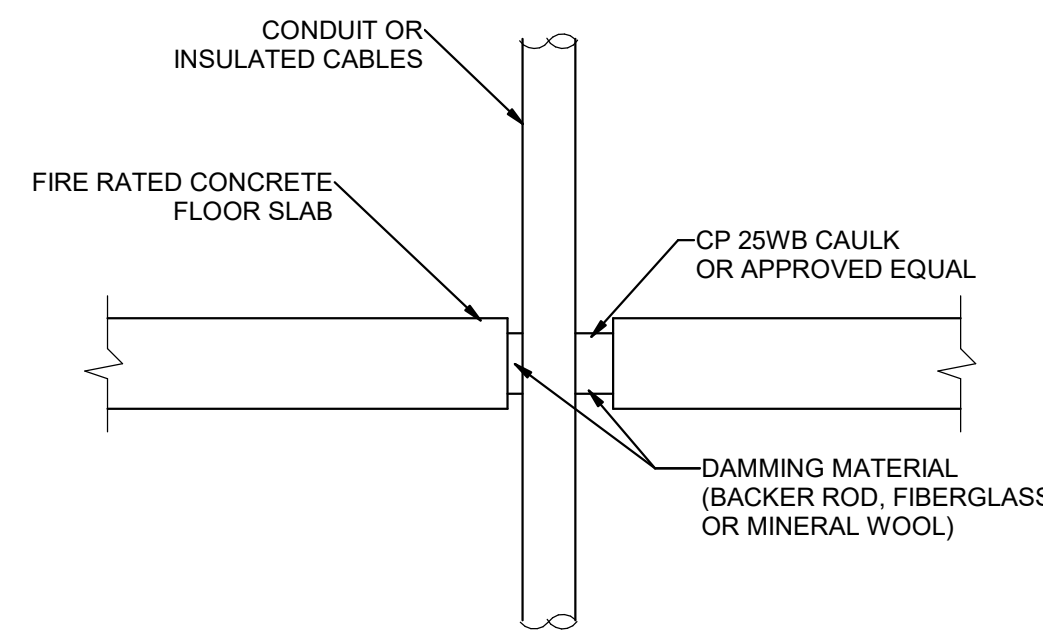
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH AS SHOWN ON THESE SHEETS UNLESS OTHERWISE NOTED OTHERWISE.



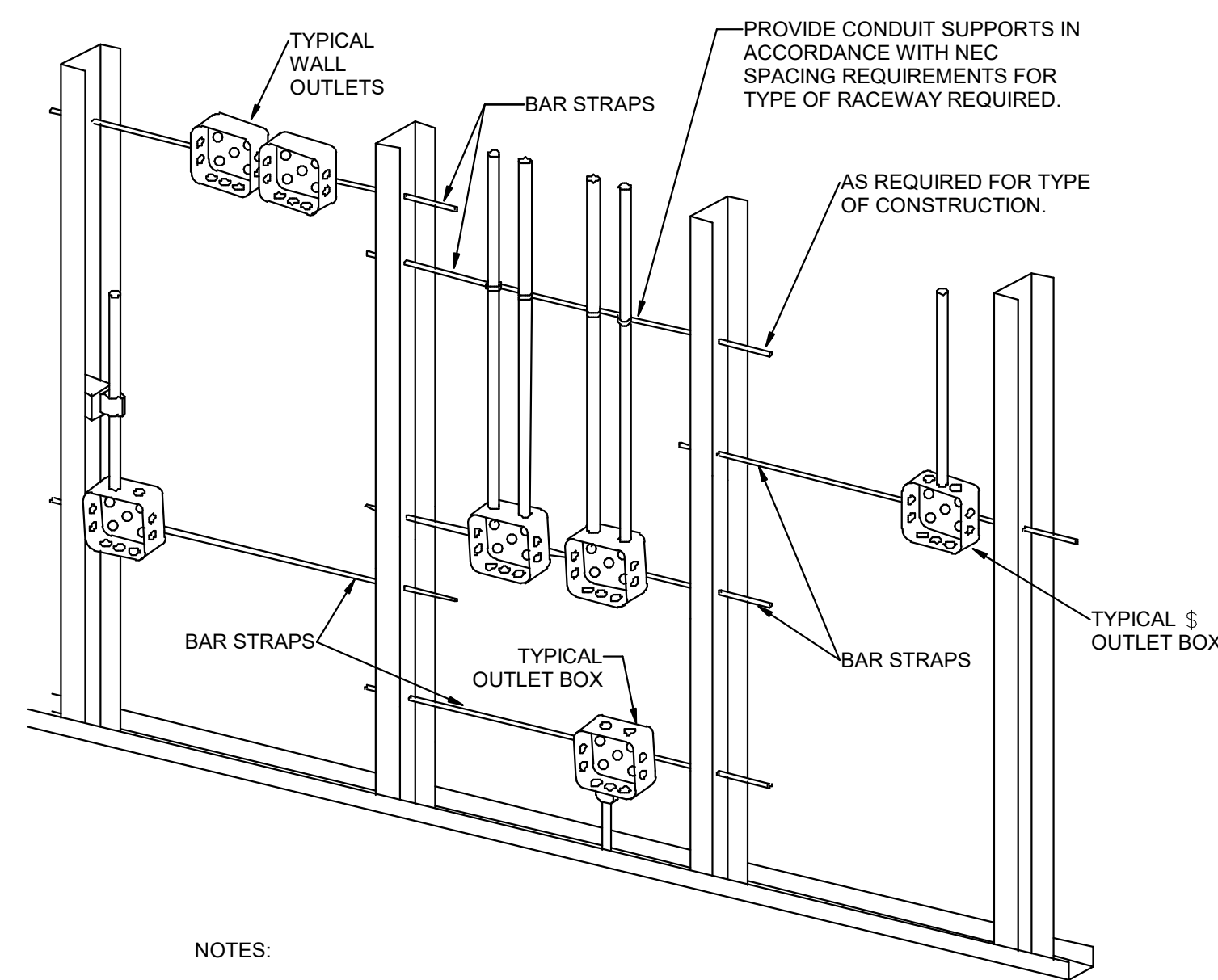
5 FIRE STOP FOR METAL CONDUIT THROUGH GYPSUM WALL BOARD
SCALE: NTS



6 TYPICAL FIRE STOP FOR CABLES/CONDUIT THROUGH CONCRETE WALLS
SCALE: NTS



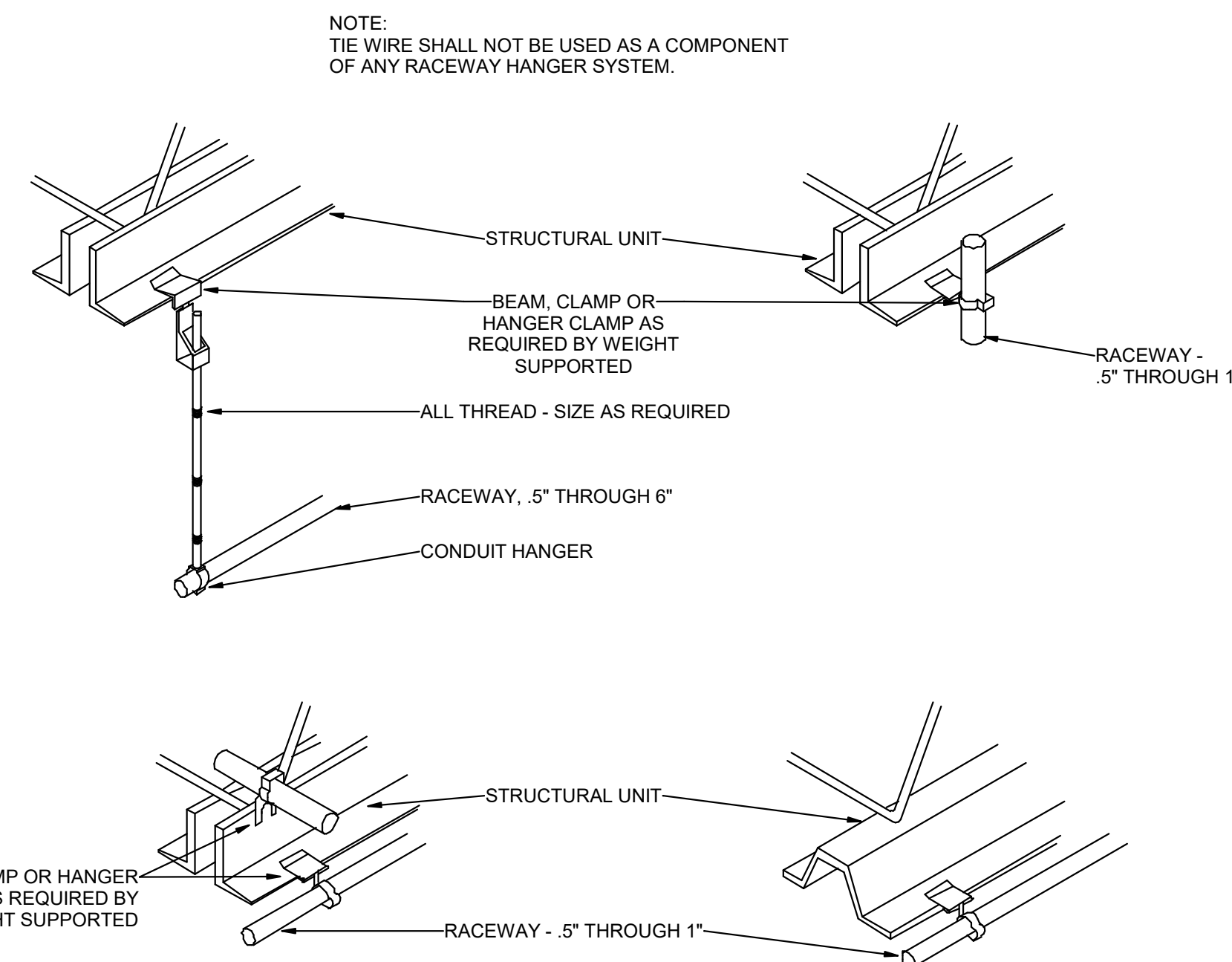
7 TYPICAL FIRE STOP FOR CABLES/CONDUIT THROUGH CONCRETE FLOORING
SCALE: NTS



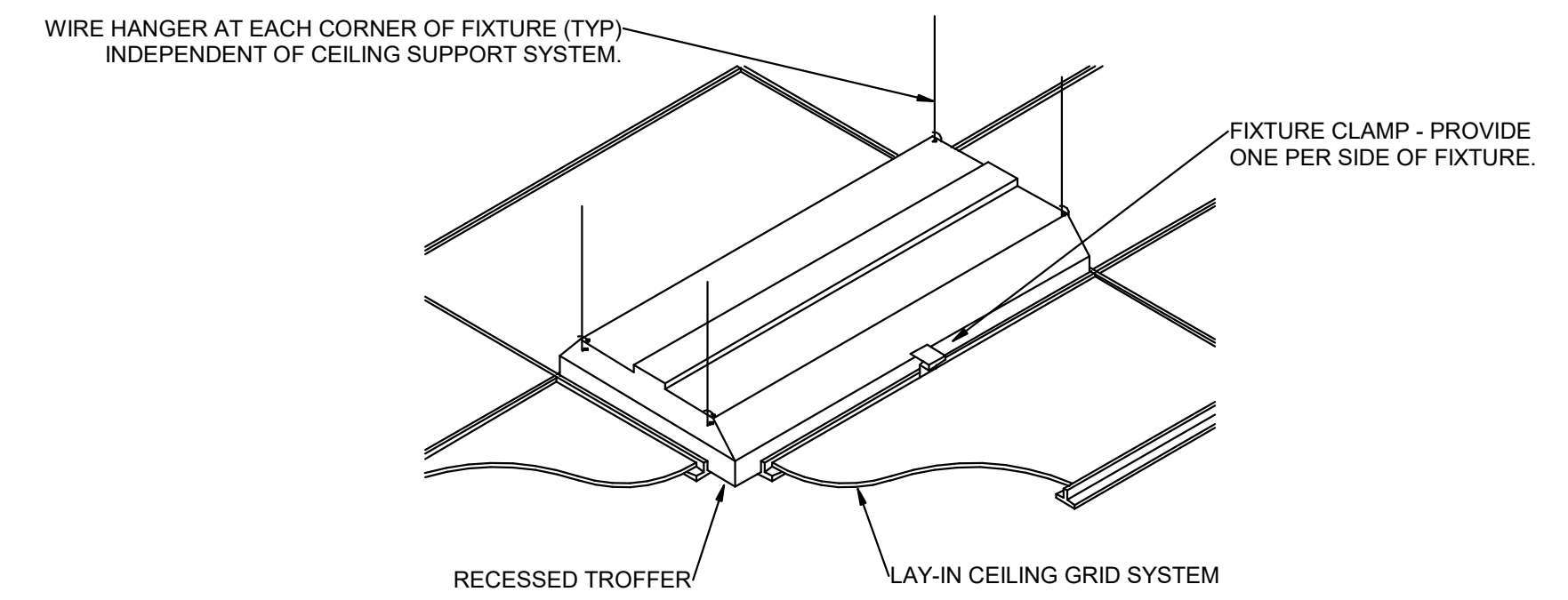
NOTES:

1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH IBC 714.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE OR LISTED, SOUND AND FIRE RATED PUTTY PADS SHALL BE USED ON THE OUTLET BOXES.
5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

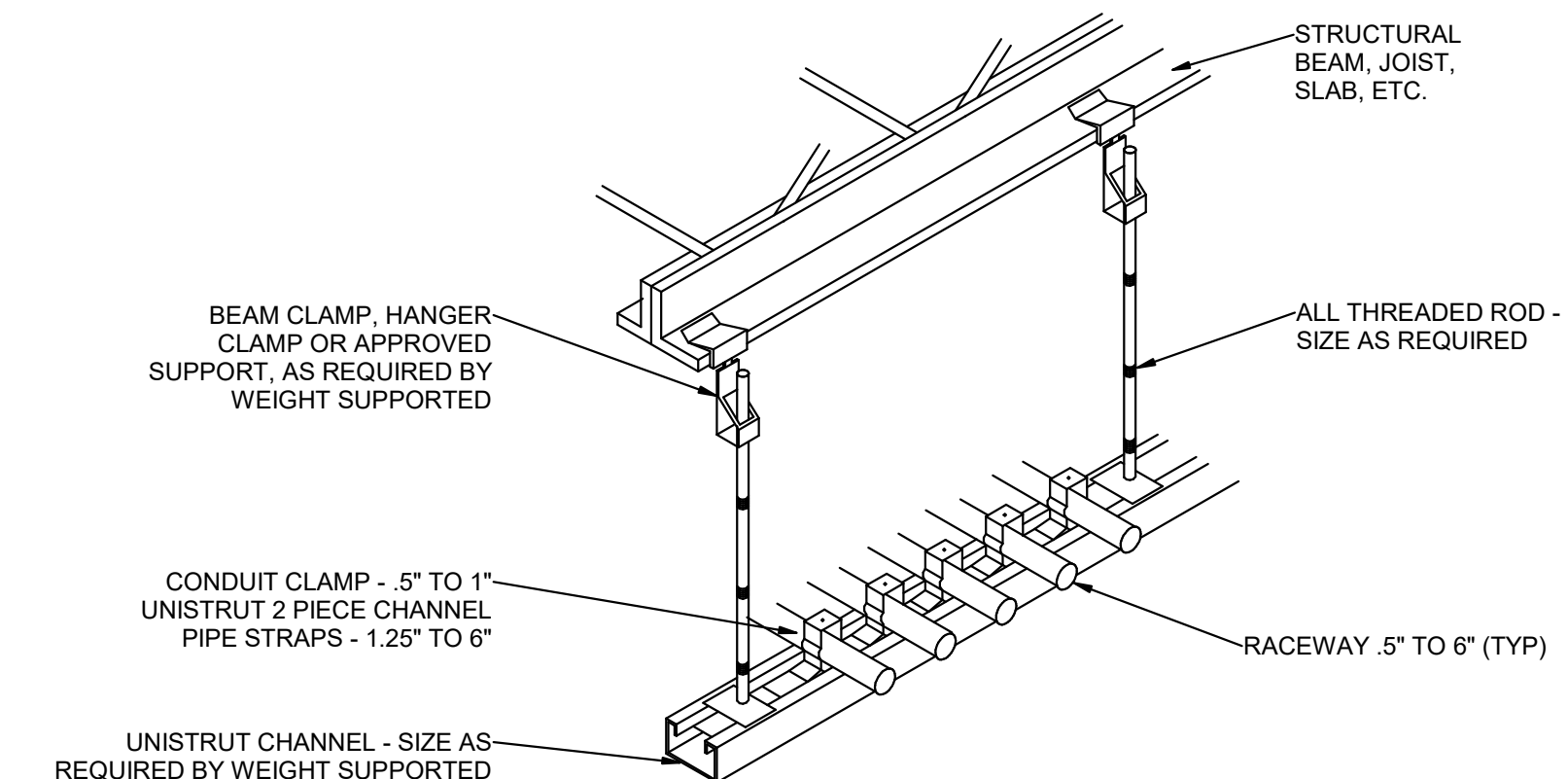
1 TYPICAL ROUGH-IN REQUIREMENTS DETAIL
SCALE: NTS



2 TYPICAL RACEWAY SUPPORT METHODS DETAIL
SCALE: NTS



4 RECESSED FIXTURE MOUNTING DETAIL
SCALE: NTS



3 TYPICAL CONDUIT RACK DETAIL
SCALE: NTS

DATE	DESCRIPTION

ELECTRICAL NOTES

- All wires specified shall be copper stranded, flexible, thermo-plastic, color coded, cut 10 foot long at outlet boxes, duct termination points or stubbed conduit ends. All conductors, power, signal and ground, must be run in a conduit or duct system. Electrical contractor shall ring out and tag all wires at both ends. Wire runs must be continuous copper stranded and free from splices.
 - Aluminum or solid wires are not allowed.
 - Wire sizes given are for use of equipment. Larger sizes may be required by local codes.
 - It is recommended that all wires be color coded, as required in accordance with national and local electrical codes.
 - Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or national codes.
 - Convenience outlets are not illustrated. Their number and location are to be specified by others. Locate at least one convenience outlet close to the system control, the power distribution unit and one on each wall of the procedure room. Use hospital approved outlet or equivalent.
 - General room illumination is not illustrated. Caution should be taken to avoid excessive heat from overhead spotlights. Damage can occur to ceiling mounting components and wiring if high wattage bulbs are used. Recommend low wattage bulbs no higher than 75 watts and use dimmer controls (except MR). Do not mount lights directly above areas where ceiling mounted accessories will be parked.
 - Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).
 - Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local electrical codes.
 - A special grounding system is required in all procedure rooms by some national and local codes. It is recommended in areas where patients might be examined or treated under present, future, or emergency conditions. Consult the governing electrical code and confer with appropriate customer administrative personnel to determine the areas requiring this type of grounding system.
 - The maximum point to point distances illustrated on this drawing must not be exceeded.
 - Physical connection of primary power to GE equipment is to be made by customers electrical contractor with the supervision of a GE representative. The GE representative would be required to identify the physical connection location, and insure proper handling of GE equipment.
 - GEHC conducts power audits to verify quality of power being delivered to the system. The customer's electrical contractor is required to be available to support this activity.

- All junction boxes, conduit, duct, duct dividers, switches, circuit breakers, cable tray, etc., are to be supplied and installed by customers electrical contractor.
- Conduit and duct runs shall have sweep radius bends
- Conduits and duct above ceiling or below finished floor must be installed as near to ceiling or floor as possible to reduce run length.
- Ceiling mounted junction boxes illustrated on this plan must be installed flush with finished ceiling.
- All ductwork must meet the following requirements:
 - Ductwork shall be metal with dividers and have removable, accessible covers.
 - Ductwork shall be certified/rated for electrical power purposes.
 - Ductwork shall be electrically and mechanically bonded together in an approved manner.
 - PVC as a substitute must be used in accordance with all local and national codes.
- All openings in raceway and access flooring are to be cut out and finished off with grommet material by the customers contractor.
- General contractor to insert pull cords for all cable run conduits between the equipment room and the operators control room.
- 10 foot pigtail at all junction points.
- Grounding is critical to equipment function and patient safety. Site must conform to wiring specifications shown on this plan.

CONNECTIVITY REQUIREMENTS

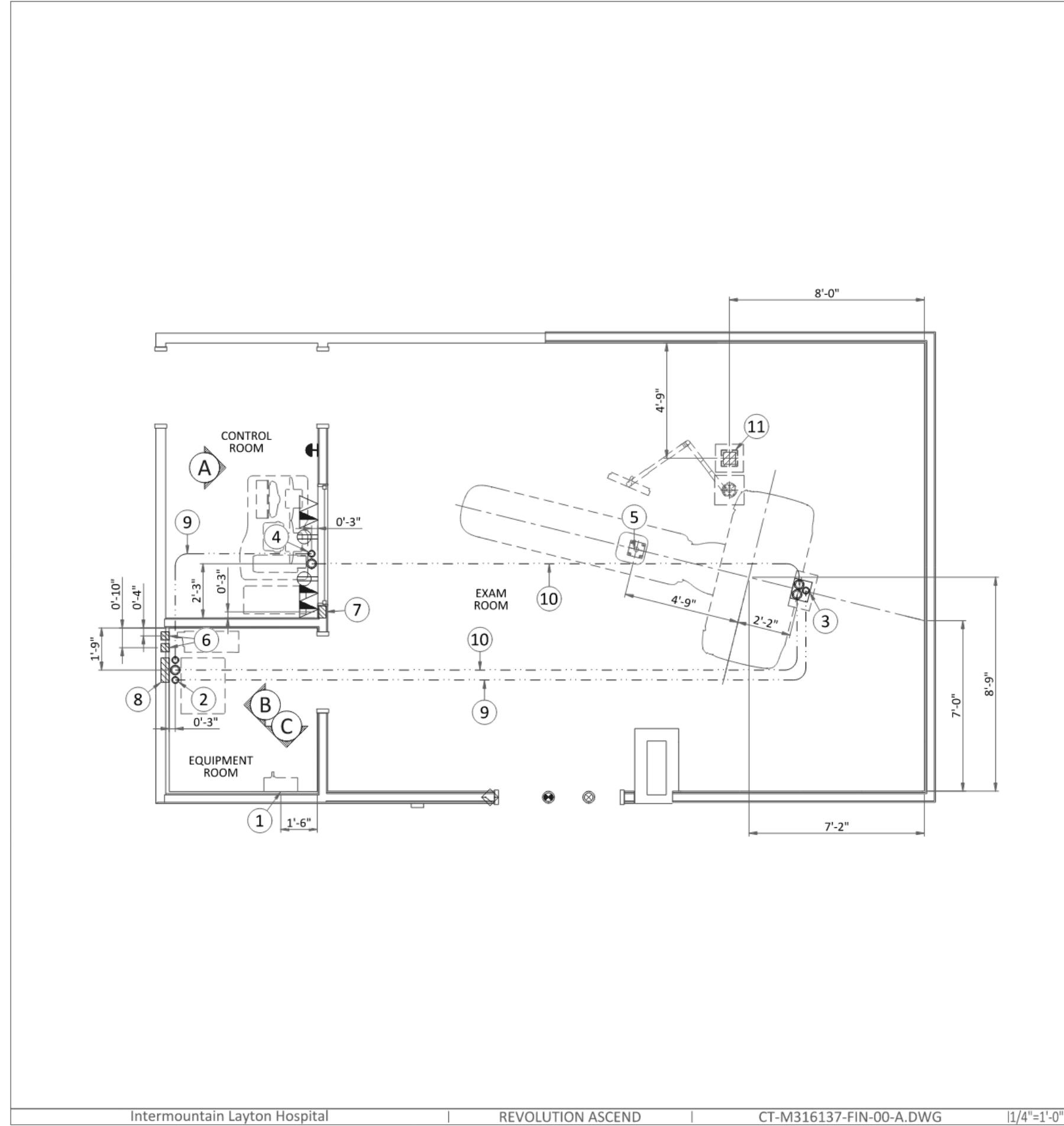
Your new GE Healthcare imaging modality will require local and remote connectivity to enable our full range of digital support:

- Local connectivity** - This allows your system to connect to local devices such as PACS and modality worklist. We will require network information to configure the system(s), and a live ethernet port(s) prior to the delivery of the system(s).
- Remote connectivity** - Your GE Healthcare service warranty includes InSite™ (applicable to InSite capable products), a powerful broadband-based service which enables digital tools that can help guard your hospital against equipment downtime and revenue loss by quickly connecting you to a GE Healthcare expert.

Depending on product family and software version, imaging systems can be connected in one of the following methods:

- TLS over TCP Port 443 (Preferred method for new products) via:
 - DNS resolution
 - Customer-provided Proxy or
 - GE Proxy (Available in some regions)
- Site-to-Site IPsec VPN tunnel

Please provide the GE project manager with the contact information for the resource that can provide information required to set up these connections. GEHC will send out communication to these contacts, which will include the project's Connectivity requirements, and a Connectivity form. This form will need to be completed and returned to GEHC prior to delivery of the system to ensure the system is tested and connectivity is enabled prior to the completion of the installation.

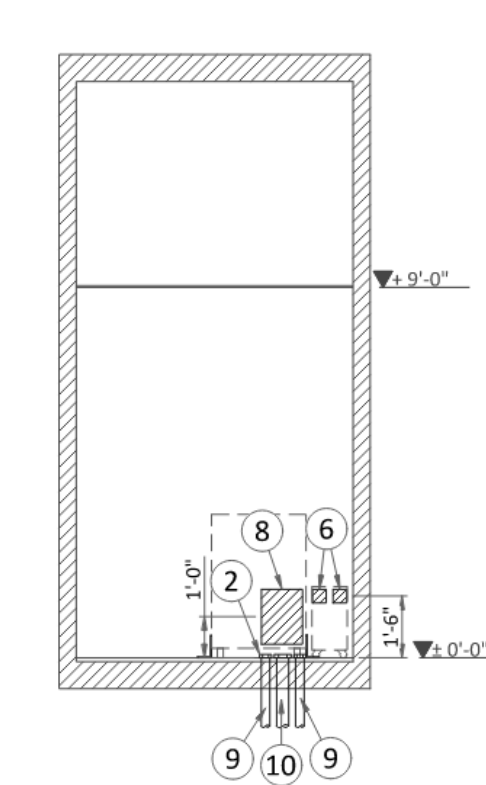
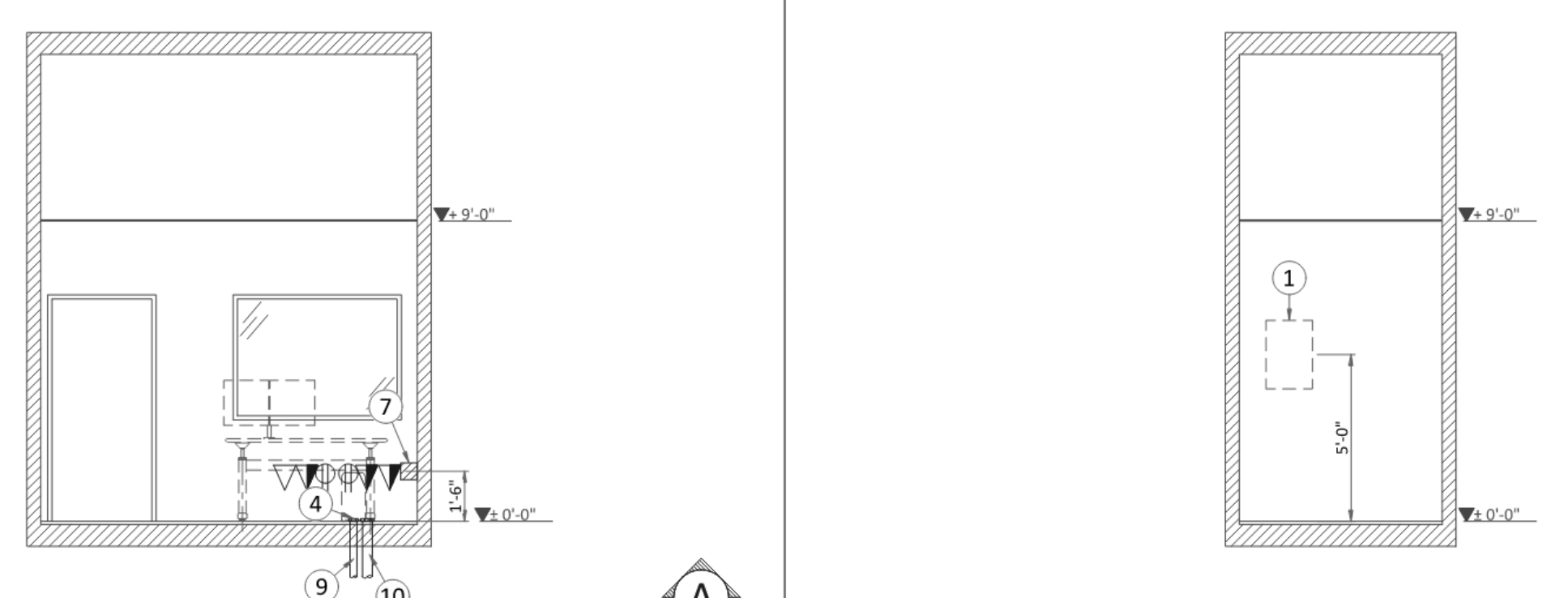


Item	Electrical Layout Item List
1	Main disconnect panel (MDP)
2	Suitable bushings & lock nuts (Power Distribution Unit)
3	Suitable bushings & lock nuts (Gantry)
4	Suitable bushings & lock nuts (Operator's Console)
5	Cable inlet above ceiling (Express Camera)
6	4" x 4" x 4" [100 x 100 x 100] box (Partial UPS)
7	6" x 6" x 4" [100 x 100 x 100] box (Control Room)
8	12" x 16" x 4" [150 x 150 x 100] box (Power Distribution Unit)
9	2 1/2" [63] conduit below floor
10	3 1/2" [90] conduit below floor
11	8" x 8" x 6" [200 x 200 x 150] box above ceiling (SmartView monitor)

ITEM	QTY	Electrical Outlet Legend
△		Dedicated telephone line(s)
□		Network outlet
⊕		Duplex hospital grade, dedicated wall outlet 120-v, single phase power
⊖		System emergency off (SEO), (recommended height 1.2m [48"] above floor)
⊙		X-Ray room warning light control panel
⊛		X-Ray Light
⊞		Door interlock switch (needed only if required by state/local codes)

Additional Conduit Runs (Contractor Supplied and Installed)					
From (Bubble # / Item)	To (Bubble # / Item)	Qty	Size		
			In.	mm	
3 Phase Power	1 Main Disconnect Panel	1	As req'd	As req'd	As req'd
1 Main Disconnect Panel	8 Power Distribution Unit	1	As req'd	As req'd	As req'd
8 Power Distribution Unit	Door Switch	1	1/2	13	
	Warning Light Control	1	1/2	13	
1 Phase Power		1	1/2	13	
5 Express Camera	7 Operator's Console	1	1 1/2	38	
1 Main Disconnect Panel	6 Partial UPS	1	1 1/4	30	
8 Power Distribution Unit		1	2	50	
2-4 SmartView Monitor	1 Operator's Console	1	1	25	
		1	2	50	

Intermountain Layton Hospital | REVOLUTION ASCEND | CT-M316137-FIN-00-A.DWG | iRev A | Date 29/Jul/2022 | E1 - Electrical Notes | 15/19



Intermountain Layton Hospital | REVOLUTION ASCEND | CT-M316137-FIN-00-A.DWG | 1/4"=1'-0" Rev A | Date 29/Jul/2022 | E3 - Electrical Elevations | 17/19

POWER REQUIREMENTS

POWER SUPPLY	3 PHASES+G 200/220/240/380/400/420/440/460/480 V ± 10%
FREQUENCIES	50/60 Hz ± 3 Hz
MAXIMUM POWER DEMAND	100 kVA
AVERAGE (CONTINUOUS) POWER DEMAND	20 kVA
POWER FACTOR	0.85

- Power supply should come into a main disconnect panel (MDP) containing the protective units and controls.
- The section of the supply cable should be calculated in accordance with its length and the maximum permissible voltage drops.
- There must be discrimination between supply cable protective device at the beginning of the installation (main low-voltage transformer side) and the protective devices in the MDP.

- SUPPLY CHARACTERISTICS**
- Power input must be separate from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers...).
 - All equipment (lighting, power outlets, etc...) installed with GE system components must be powered separately.
 - Phase imbalance 2% maximum.
 - Transients must be less than 1500V peak. (on a 400V line)

- GROUND SYSTEM**
- System of equipotential grounding.
 - Equipotential: The equipotential link will be by means of an equipotential bar. This equipotential bar should be connected to the protective earth conductors in the ducts of the non GE cableways and to additional equipotential connections linking up all the conducting units in the rooms where GE system units are located.

- CABLES**
- Power and cable installation must comply with the distribution diagram.
 - All cables must be isolated and flexible, cable color codes must comply with standards for electrical installation.
 - The cables from signaling and remote control (Y, SEO, L...) will go to MDP with a pigtail length of 1.5m, and will be connected during installation. Each conductor will be identified and isolated (screw connector).

- CABLEWAYS**
- The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to:
- Protecting cables against water (cableways should be waterproof).
 - Protecting cables against abnormal temperatures (proximity to heating pipes or ducts).
 - Protecting cables against temperature shocks.
 - Replacing cables (cableways should be large enough for cables to be replaced).
 - Metal cableways should be grounded.

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POWER DISTRIBUTION

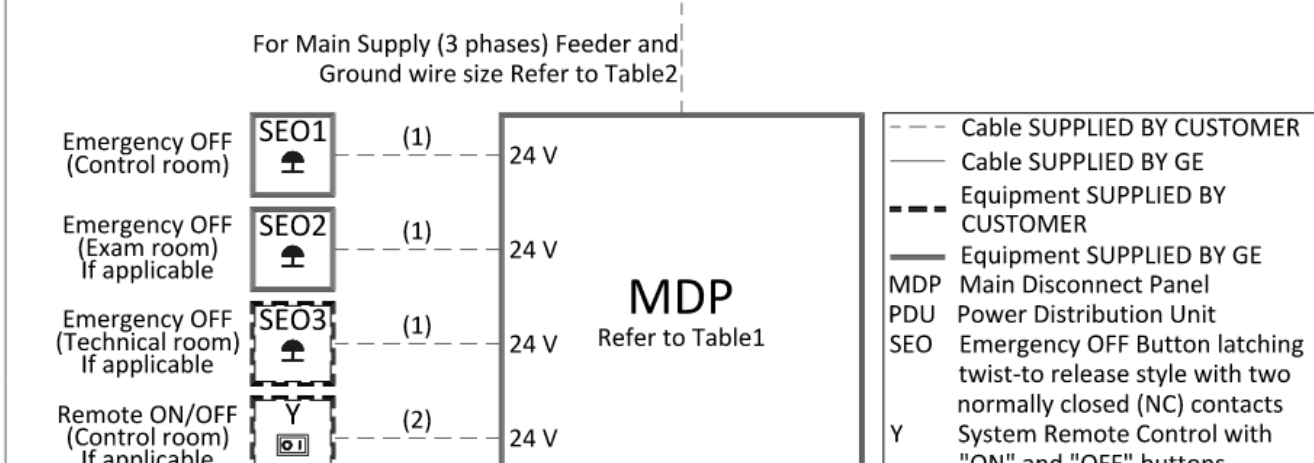


Table 1: GE Supplied Main Disconnect Panel (MDP)			
Region	CAT number	Amps	
Global except EMEA(440-480 V)	E45028B	90	
Global except EMEA(380-420 V)	E45028C	110	
EMEA(380-420 V)	E450218B (3)	125	

Table 2: Feeder Table

The information below assumes the use of copper wire, rated 75 C and run in steel conduit. All ampacity is determined in accordance with the National Electrical Code (NFPA 70), Table 310-16 (2002). The ampacity of the circuit protection device listed above determines the minimum feeder size, except where total source regulation limits require a larger size.

Feeder length from Power Substation to MDP - ft (m)	Minimum Wire Size, AWG or MCM (mm ²)/VAC									
	200 VAC	220 VAC	240 VAC	380 VAC	400 VAC	420 VAC	440 VAC	460 VAC	480 VAC	
50 (15)	1/0 (55)	1/0 (55)	1/0 (55)	2 (35)	2 (35)	3 (30)	3 (30)	3 (30)	3 (30)	
100 (30)	2/0 (70)	1/0 (55)	1/0 (55)	2 (35)	2 (35)	3 (30)	3 (30)	3 (30)	3 (30)	
150 (46)	4/0 (100)	3/0 (85)	3/0 (85)	2 (35)	2 (35)	3 (30)	3 (30)	3 (30)	3 (30)	
200 (61)	5/0 (125)	4/0 (100)	4/0 (100)	2 (35)	2 (35)	3 (30)	3 (30)	3 (30)	3 (30)	
250 (76)	6/0 (170)	5/0 (125)	5/0 (125)	1 (45)	1 (45)	2 (35)	2 (35)	2 (35)	2 (35)	
300 (91)	7/0 (215)	6/0 (170)	5/0 (125)	1/0 (55)	1/0 (55)	1 (45)	1 (45)	2 (35)	2 (35)	
350 (107)	8/0 (275)	7/0 (215)	6/0 (170)	2/0 (70)	2/0 (70)	1/0 (55)	1/0 (55)	1 (45)	1 (45)	
400 (122)	8/0 (275)	7/0 (215)	7/0 (215)	2/0 (70)	2/0 (70)	1/0 (55)	1/0 (55)	1/0 (55)	1 (45)	
Sub-Feeder length from MDP to PDU - ft (m)	1/0 (55)	1/0 (55)	1/0 (55)	2 (35)	2 (35)	3 (30)	3 (30)	3 (30)	3 (30)	
Grounding										
Run a dedicated 1/0 [55 mm ²] or larger insulated copper ground wire from the power source to the MDP and from MDP to the PDU. Run the ground wire in the same raceway with the three-phase wires.										

- Notes:
- Wire size: 2x2mm² [14AWG] and 1x2mm² [14AWG] GND
 - Wire size: 6x2mm² [14AWG] and 1x2mm² [14AWG] GND
 - GE supplied MDP option E450218B includes a 10 meter long power cable (H07RN-F) with wire size 4x50mm² and a 50 meter long control cable with wire size 2x1.5mm²

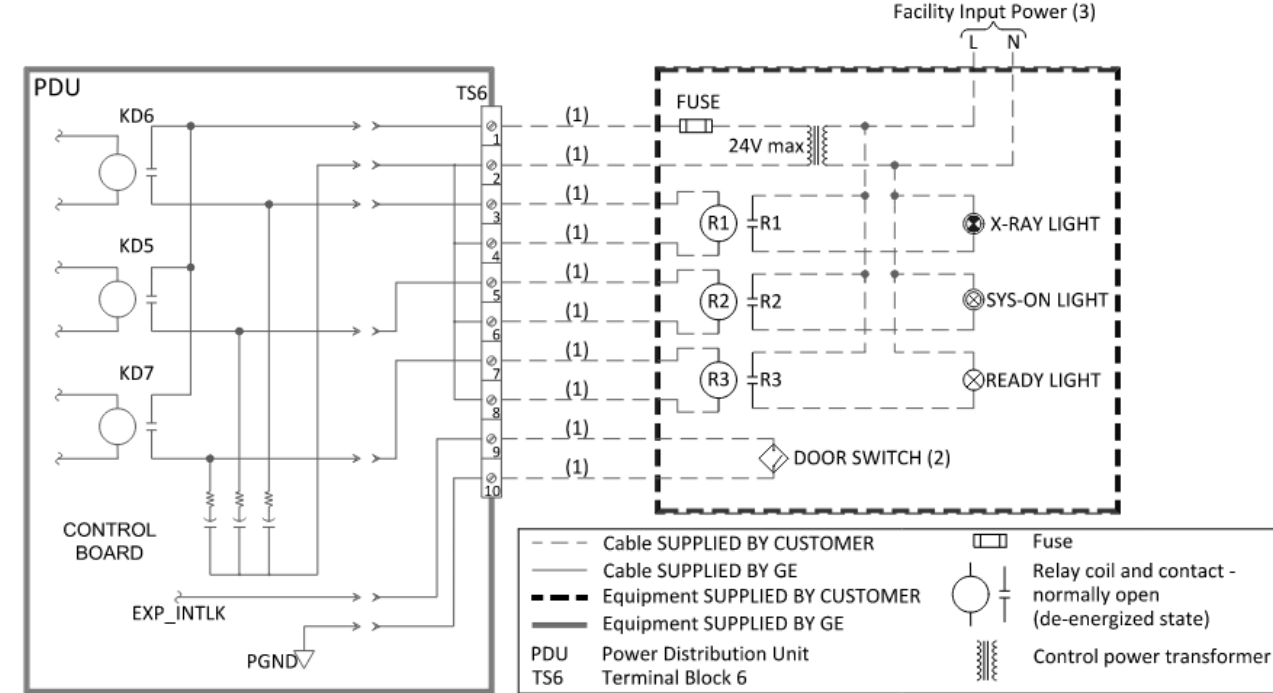
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DATE	DESCRIPTION

DATE	DESCRIPTION

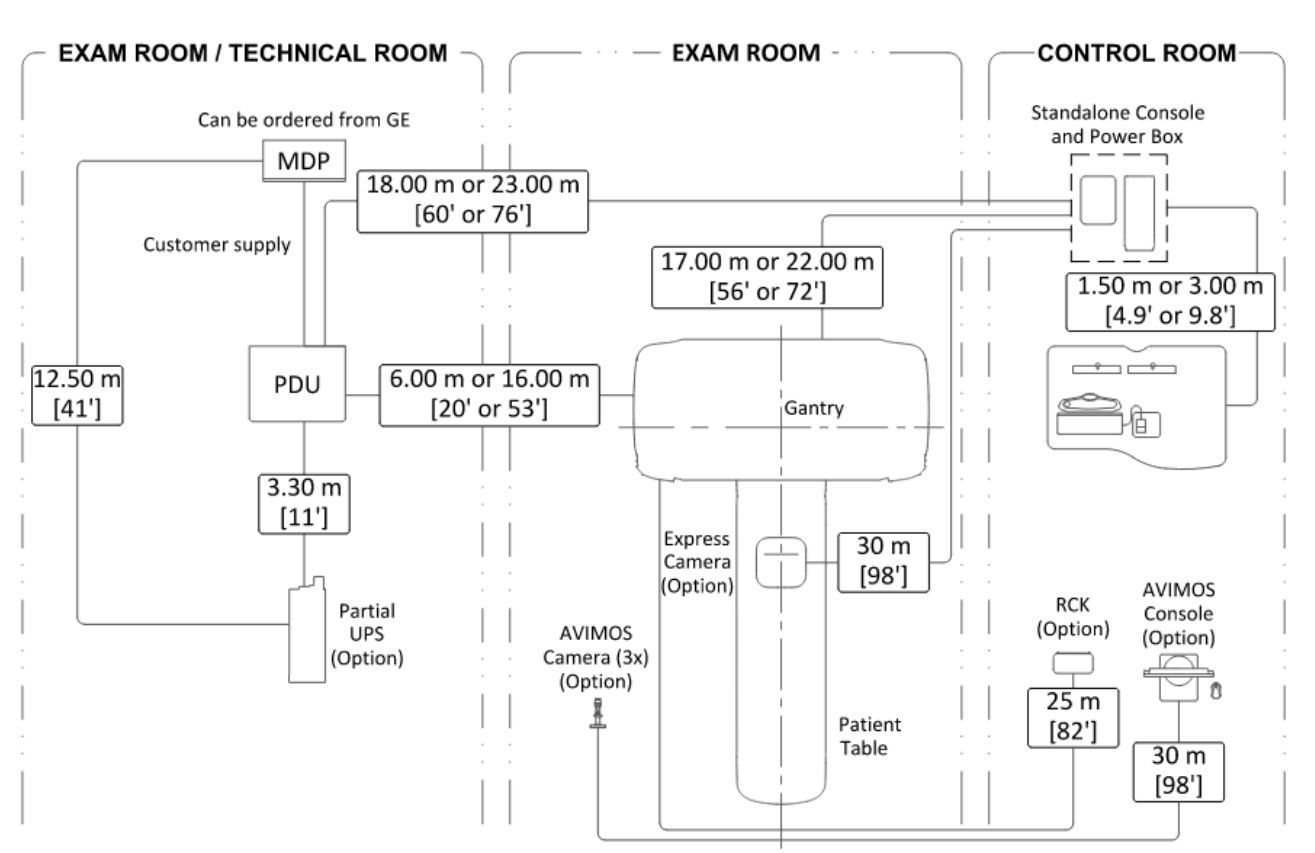
THE LINE SHOWN ABOVE IS EXACTLY
 ONE INCH IN SIZE
 UNLESS OTHERWISE NOTED

SCAN ROOM WARNING LIGHT AND DOOR INTERLOCK



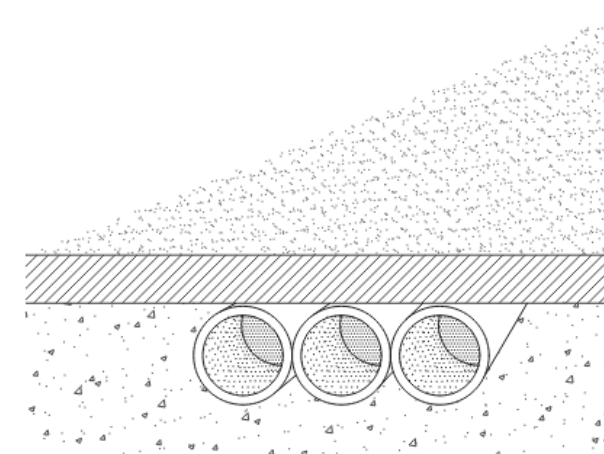
Notes:
 (1) Wire size: 2mm² [14 AWG] at 24V
 (2) Door Interlock circuit is jumpered out if a door switch is not provided.
 (3) Grounding not shown on the detail, but must comply with local codes.

INTERCONNECTIONS



TYPICAL CABLE MANAGEMENT

CONDUIT IN THE FLOOR



NOT TO SCALE

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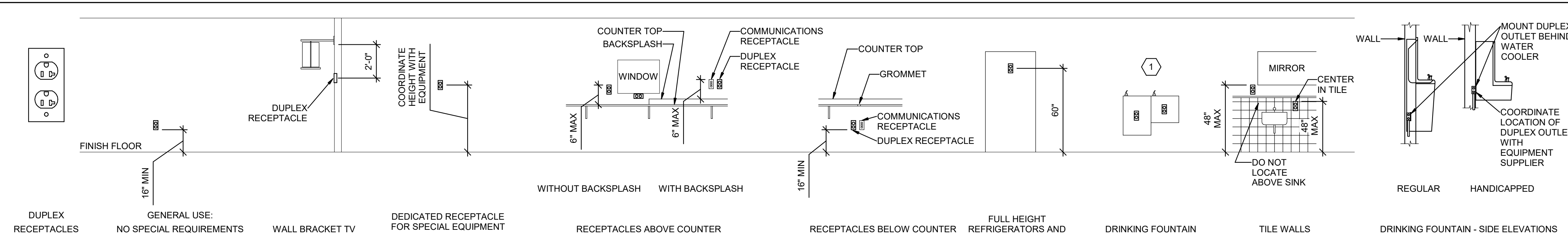
DATE	DESCRIPTION

PROFESSIONAL ENGINEER
 No. 11789781-2202
 JASON R. WORTHEN
 STATE OF UTAH
 09/28/2022

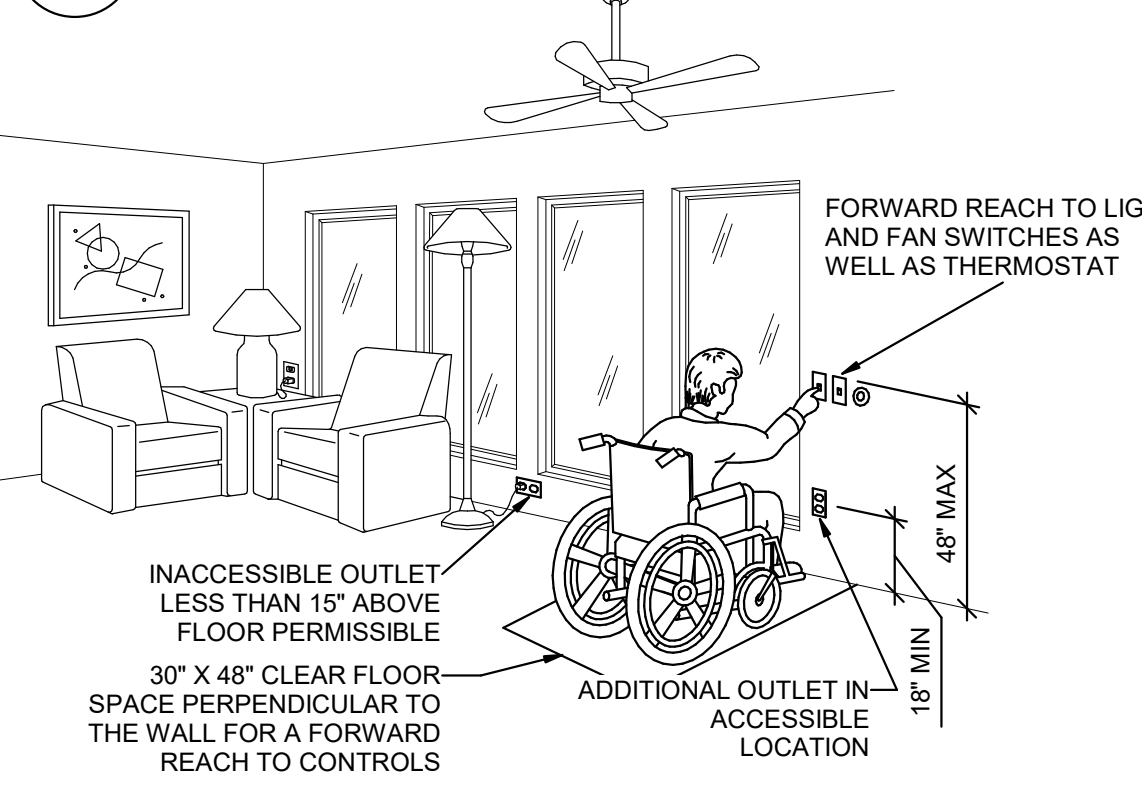
ORIG SUBMISSION: 09/28/22
 CURRENT: CONSTRUCTION DOCUMENTS

SHEET TITLE AND NUMBER:
EE503
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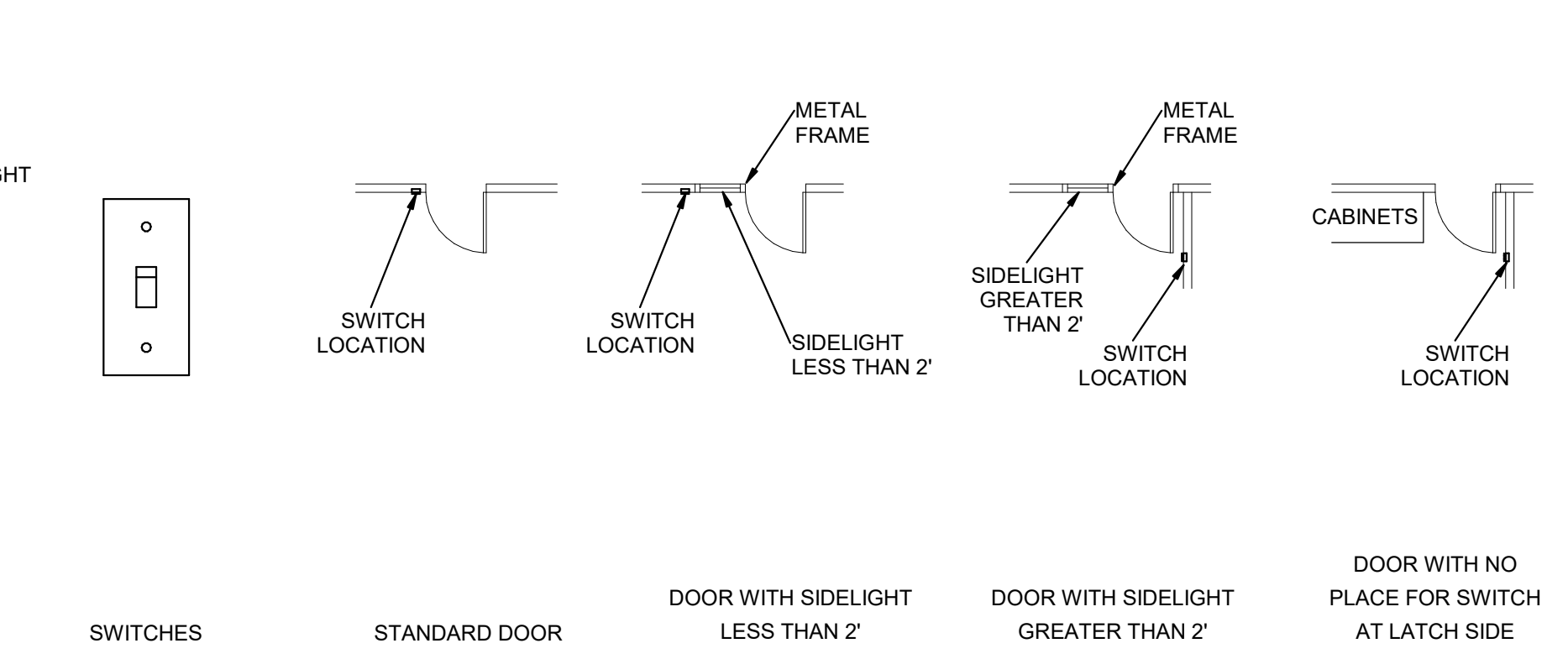
THE LINE SHOWN ABOVE IS EXACTLY ON THE FINISH FLOOR SURFACE UNLESS OTHERWISE NOTED



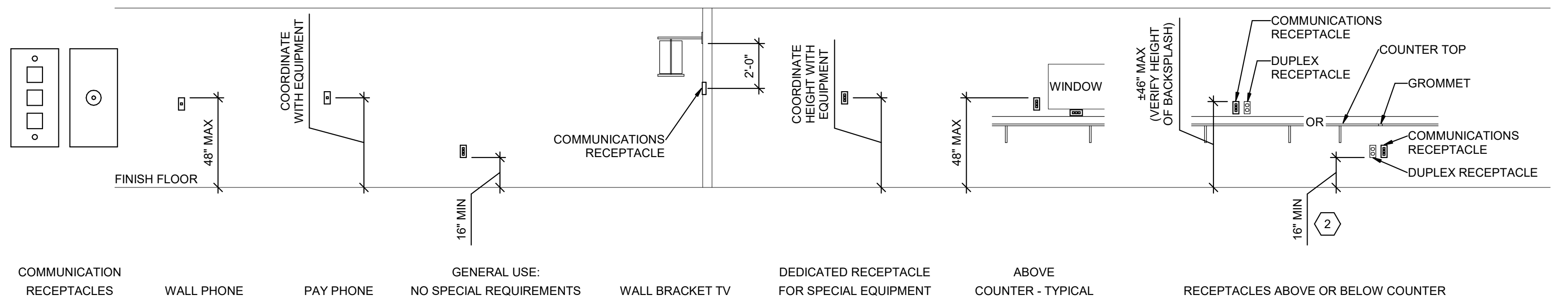
9 RECEPTACLE MOUNTING DETAILS
SCALE: NTS



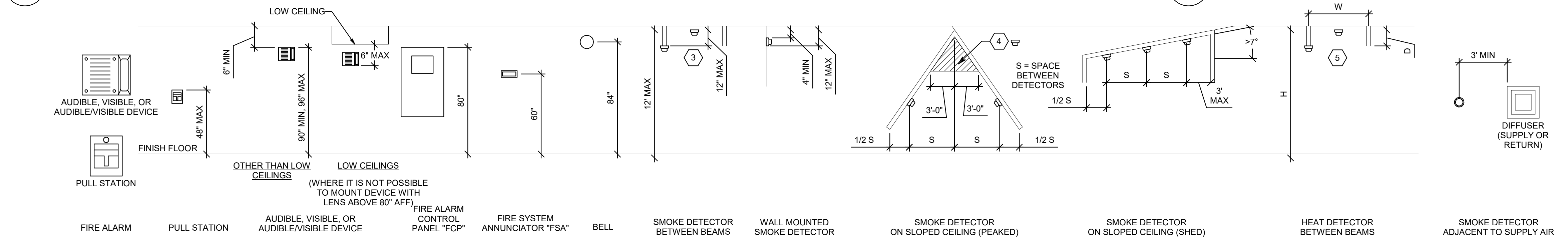
7 ADA DETAIL
SCALE: NTS



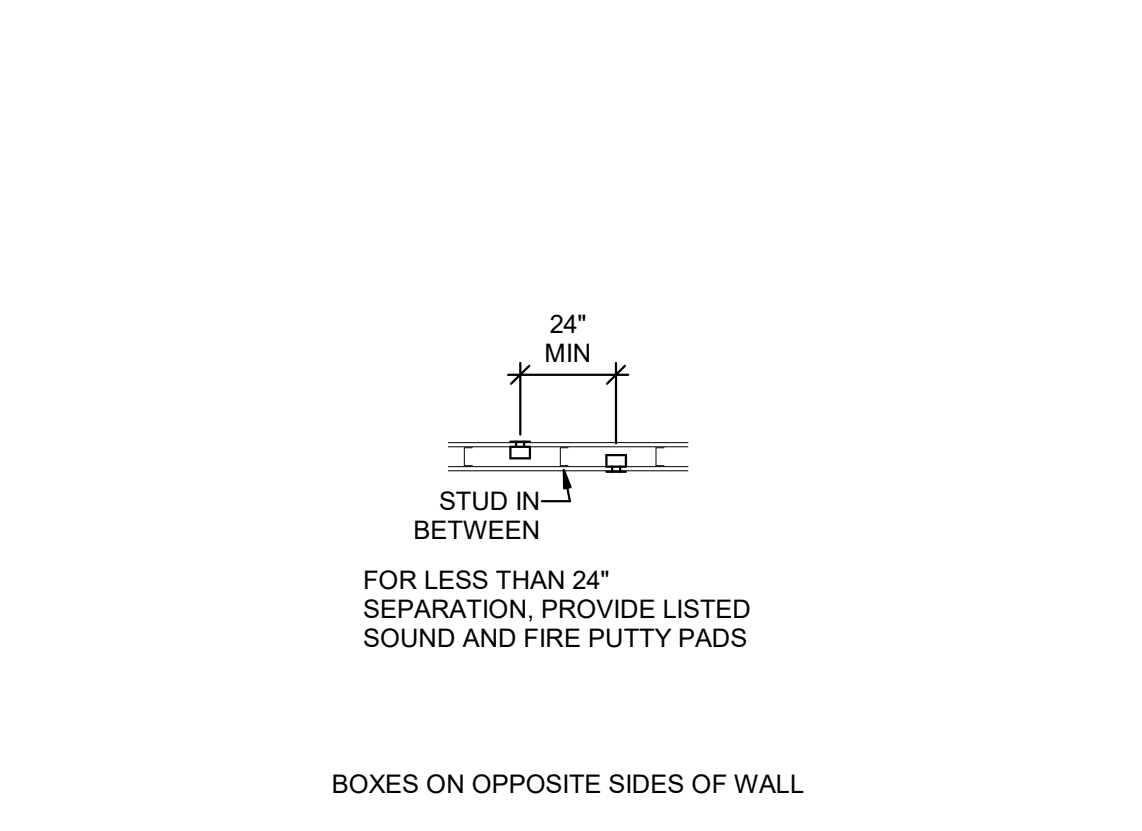
8 SWITCH MOUNTING DETAILS
SCALE: NTS



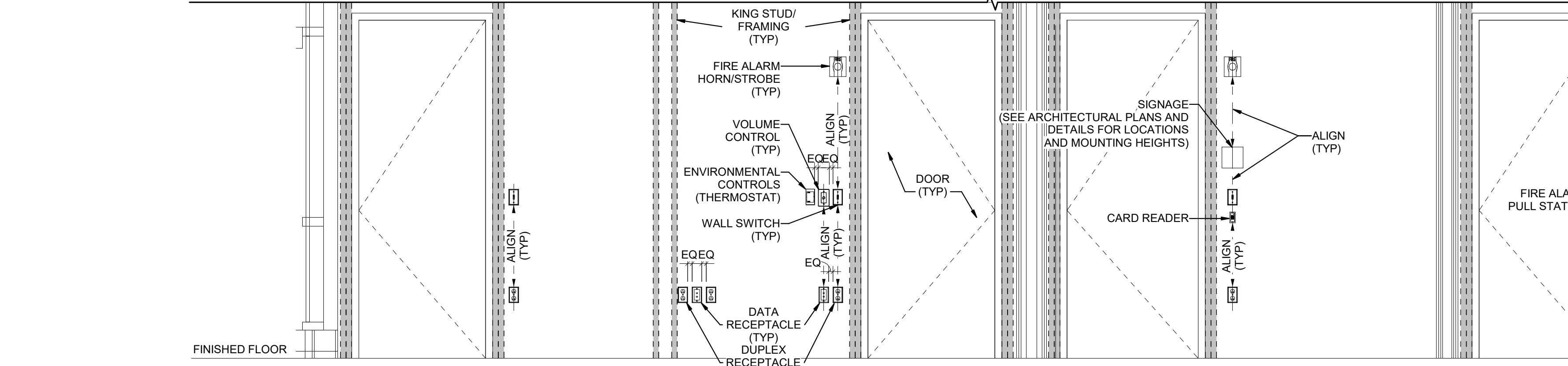
5 COMMUNICATIONS MOUNTING DETAILS
SCALE: NTS



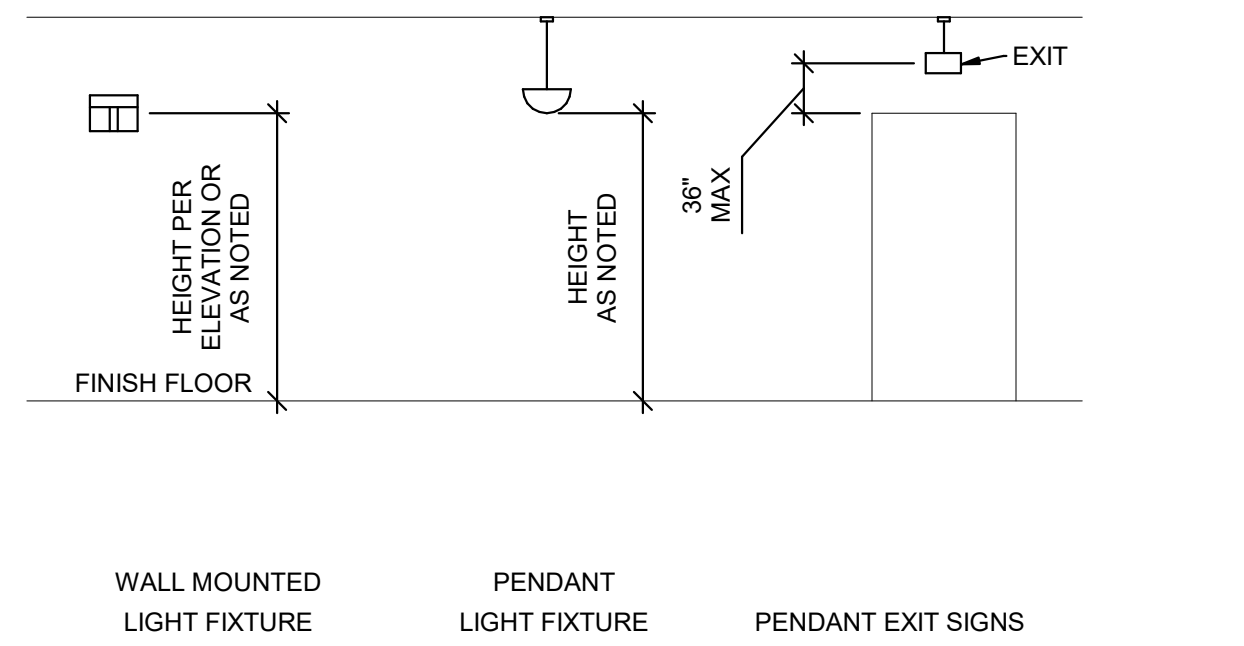
3 FIRE ALARM MOUNTING DETAILS
SCALE: NTS



1 BOX MOUNTING DETAILS
SCALE: NTS



2 TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL
SCALE: NTS



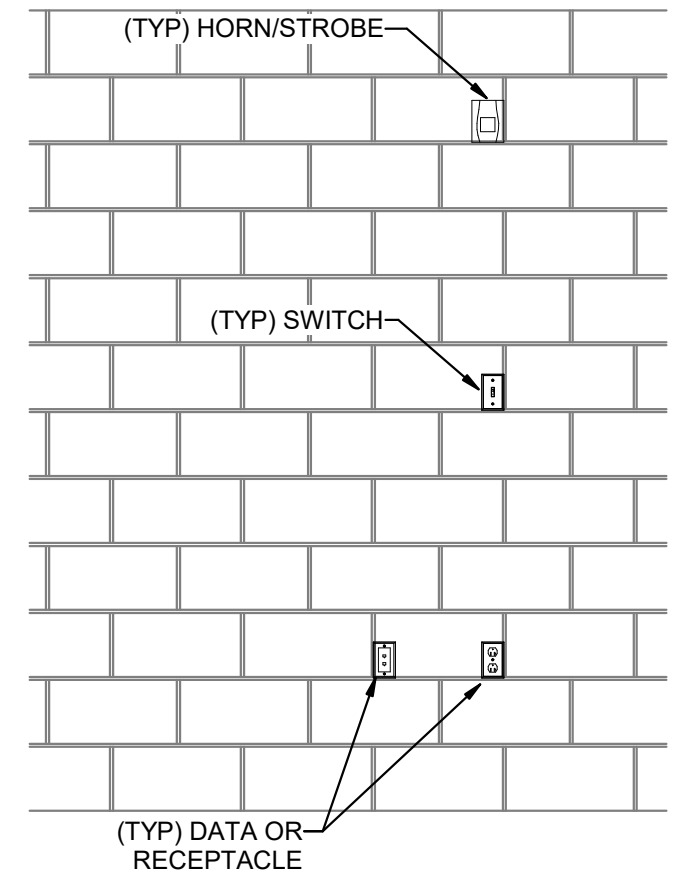
6 LIGHTING MOUNTING DETAILS
SCALE: NTS

GENERAL SHEET NOTES

1. DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:
 - 1 - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).
 - 2 - EQUIPMENT SHOP DRAWINGS.
 - 3 - FIELD INSTRUCTIONS.
2. LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
3. MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
4. MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
5. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
6. LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
7. VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
8. LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.
9. WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

SHEET KEYNOTES

1. LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.
3. LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY .5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS, REFER TO NFPA 72.
4. LOCATE DETECTOR ANYWHERE IN SHADED AREA BUT NOT IN TOP 4\"/>



4 CMU DEVICE MOUNTING ALIGNMENT DETAIL
SCALE: NTS

CMU DEVICE MOUNTING ALIGNMENT DETAIL

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801-328-5151
fax: 801-328-5155
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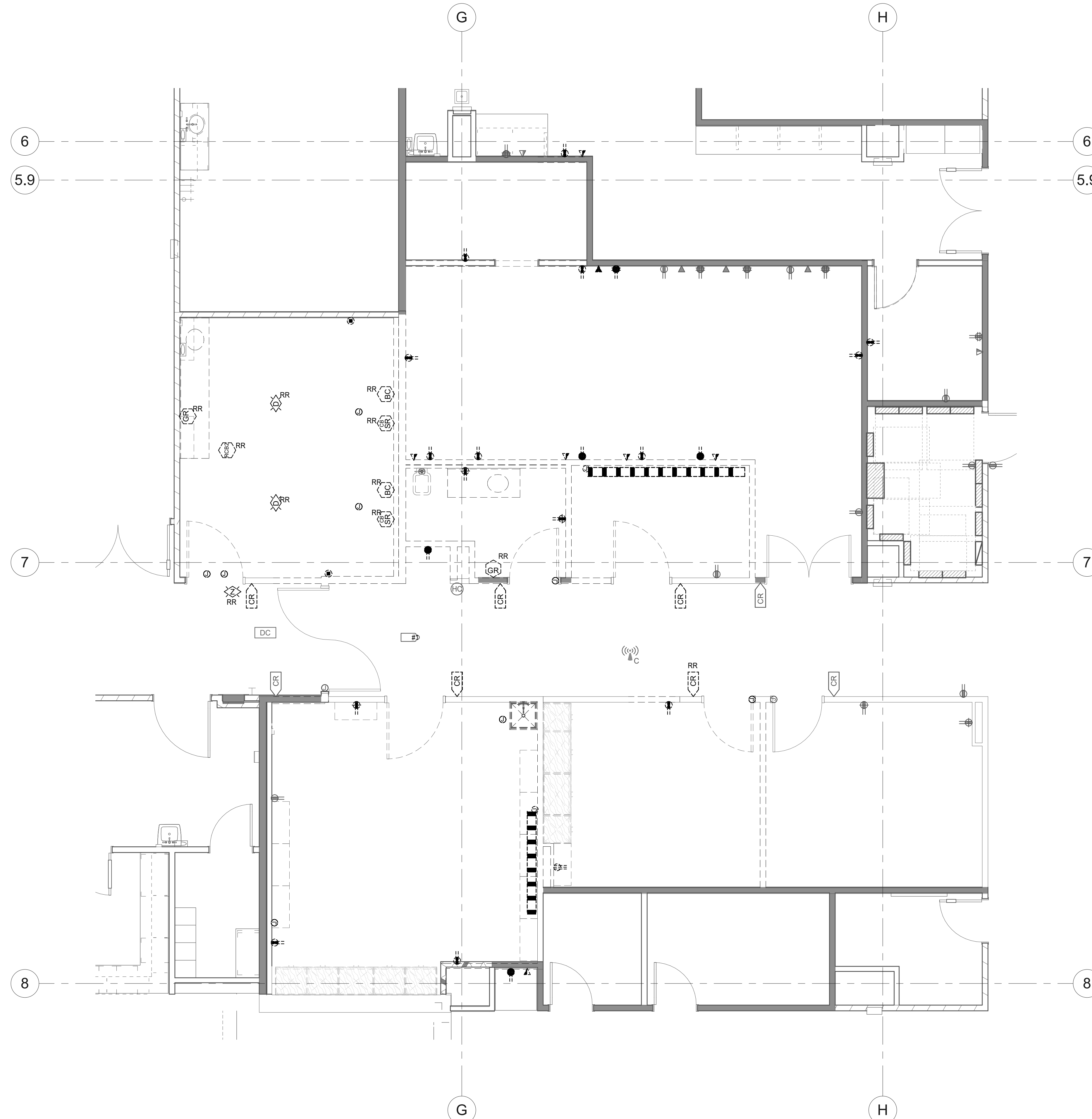
INTERMOUNTAIN HEALTHCARE
INTERMOUNTAIN HEALTH CARE LAYTON
HOSPITAL - CT MODEL
201 LAYTON PARKWAY
LAYTON, UT 84041
PROJECT: 7022021

DATE	DESCRIPTION

PROFESSIONAL ENGINEER
No. 11789731-2202
JASON R. WORTHEN
STATE OF UTAH
09/28/2022

ORIG SUBMISSION: 09/28/22
CURRENT: CONSTRUCTION DOCUMENTS
SHEET TITLE AND NUMBER:
EE701
TYPICAL MOUNTING HEIGHT DETAILS

THE LINE SHOWN ABOVE IS EXACTLY
 ONE FOOT FROM THE CENTER
 OF THE WALL UNLESS NOTED
 OTHERWISE.



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

GENERAL SHEET NOTES

- 1 UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS.
- 2 SALVAGE ALL LIGHT FIXTURES, TWIST-LOCK RECEPTACLES AND WALLPLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO OWNER. PROTECT SALVAGED EQUIPMENT FROM DAMAGE.
- 3 PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
- 4 PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
- 5 REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED. WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, RE-ROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.
- 6 REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AND INDICATING LOOPS WHERE EXISTING DEVICES ARE REMOVED.
- 7 REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
- 8 DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.
- 9 REFER TO ARCHITECTURAL DRAWINGS FOR REMOVAL OF MOTORS, CONDUIT, CONDUCTOR AND CONTROL WIRING ASSOCIATED WITH EXISTING MOTORIZED DOORS, PARTITIONS AND LIGHTING.
- 10 REMOVE FEEDERS FOR ALL DEMOLISHED PANELS, DISCONNECTS, ETC. BACK TO SOURCE
- 11 ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.
- 12 ALL HVAC UNITS TO BE REMOVED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED RACEWAYS AND CONDUCTORS BACK TO SOURCE.

SHEET KEYNOTES

DATE	DESCRIPTION

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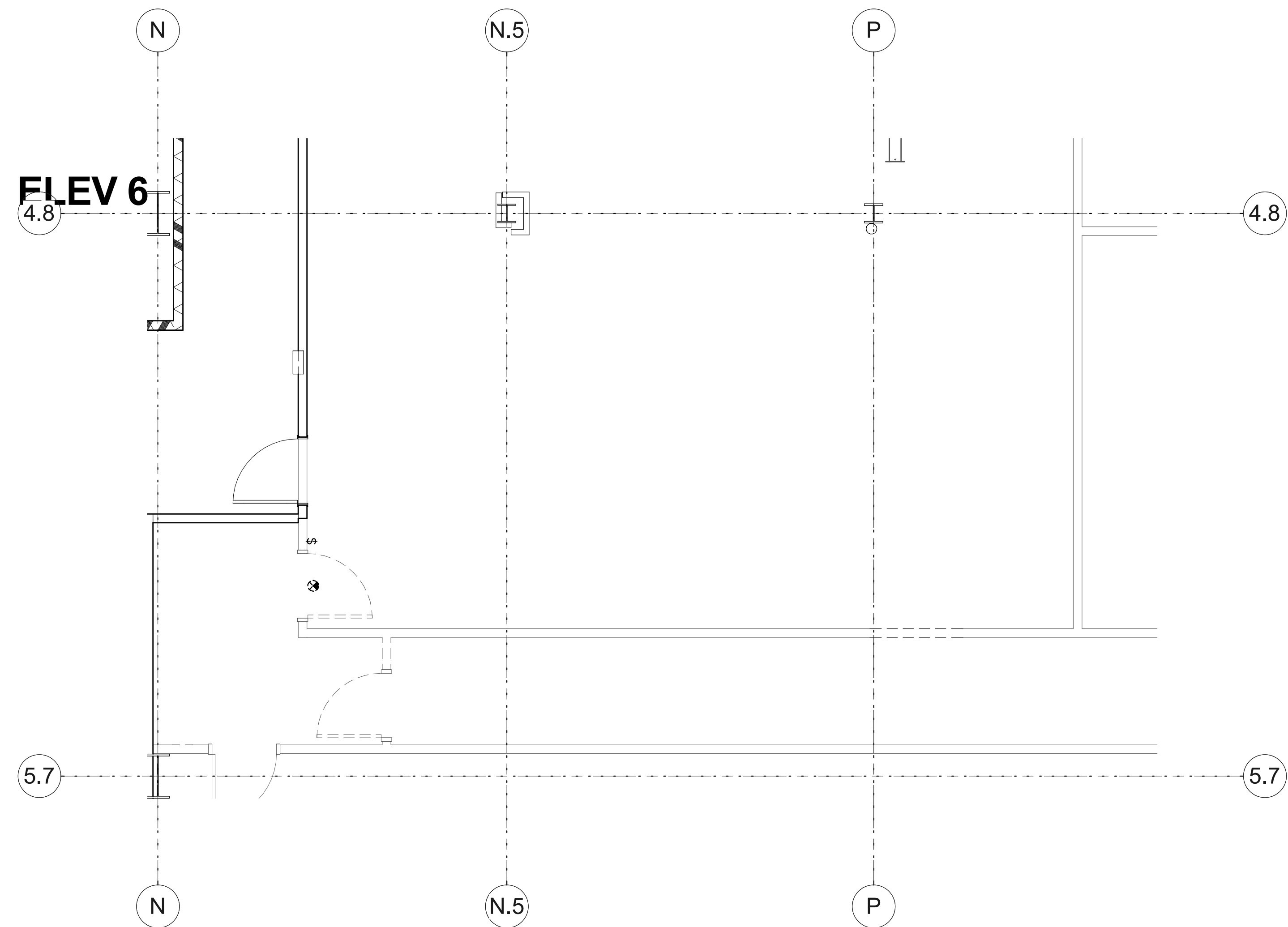
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PROFESSIONAL ENGINEER
 No. 11789781-2202
 JASON R. WORTHEN
 STATE OF UTAH
 09/28/2022

ORIG SUBMISSION: 09/28/22
 CURRENT: CONSTRUCTION DOCUMENTS
 SHEET TITLE AND NUMBER:
EDP101
 LEVEL 1 ELECTRICAL DEMOLITION PLAN

THE LINE SHOWN ABOVE IS EXACTLY
 ONE FOOT FROM THE CENTERLINE
 OF THE MAIN PANEL SIZE



1 LEVEL 3 ELECTRICAL DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

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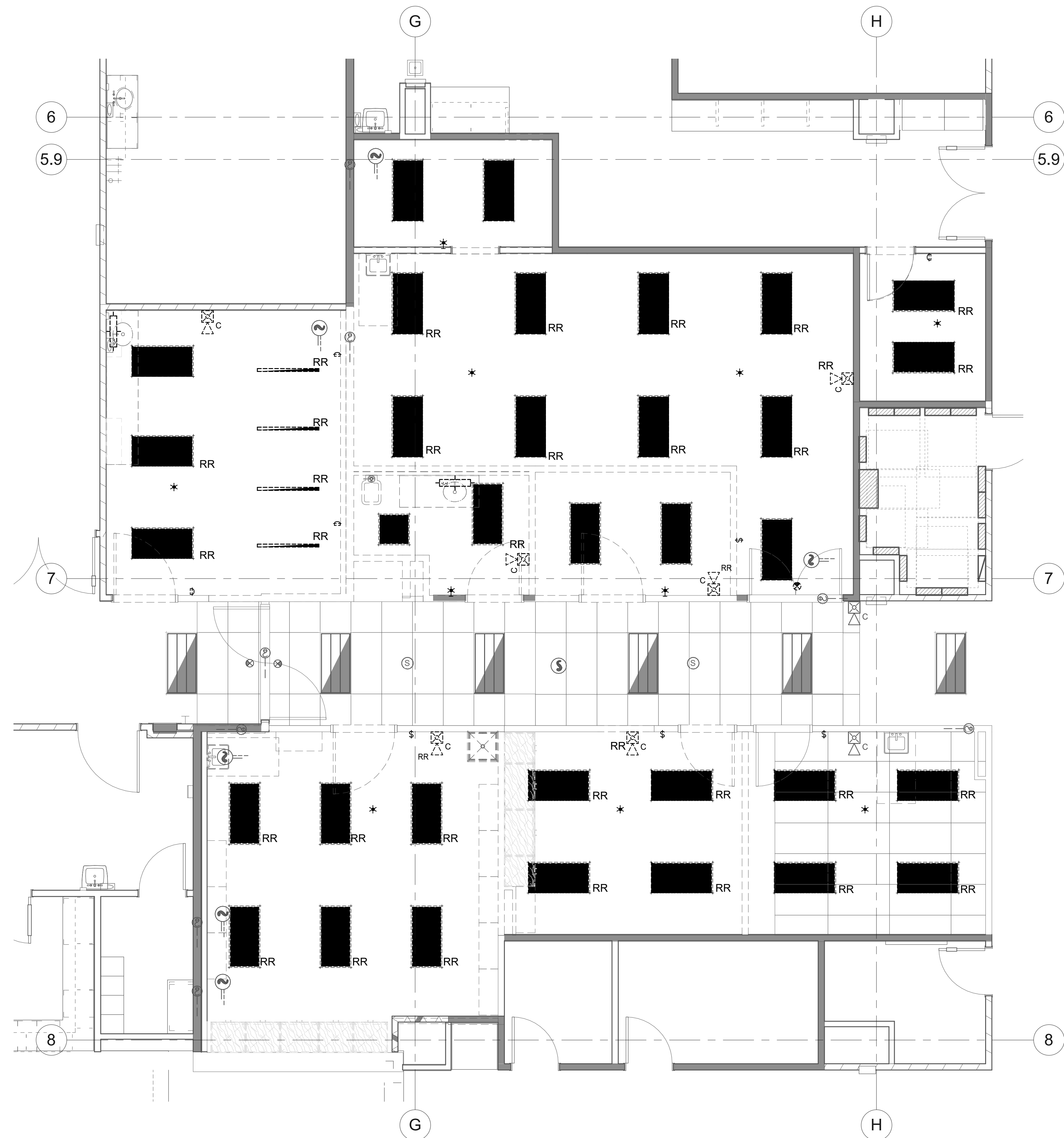
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PROFESSIONAL ENGINEER
 No. 11789781-2202
 JASON R. WORTHEN
 STATE OF UTAH
 09/28/2022

ORIG SUBMISSION: 09/28/22
 CURRENT: CONSTRUCTION DOCUMENTS
 SHEET TITLE AND NUMBER:
EDP102
 LEVEL 3 ELECTRICAL DEMOLITION PLAN

THE LINE SHOWN ABOVE IS EXACTLY
ON THE CENTERLINE OF THE SHEETS
ON THE SAME PAGE SIZE



1 LEVEL 1 CEILING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

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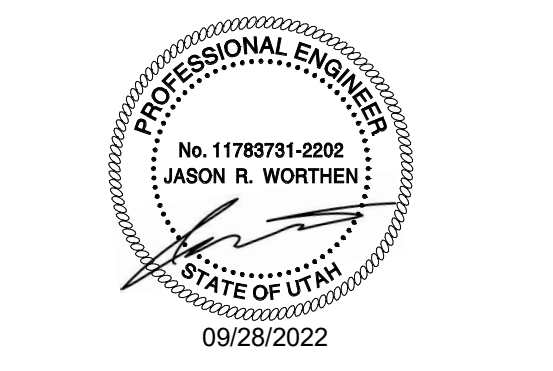
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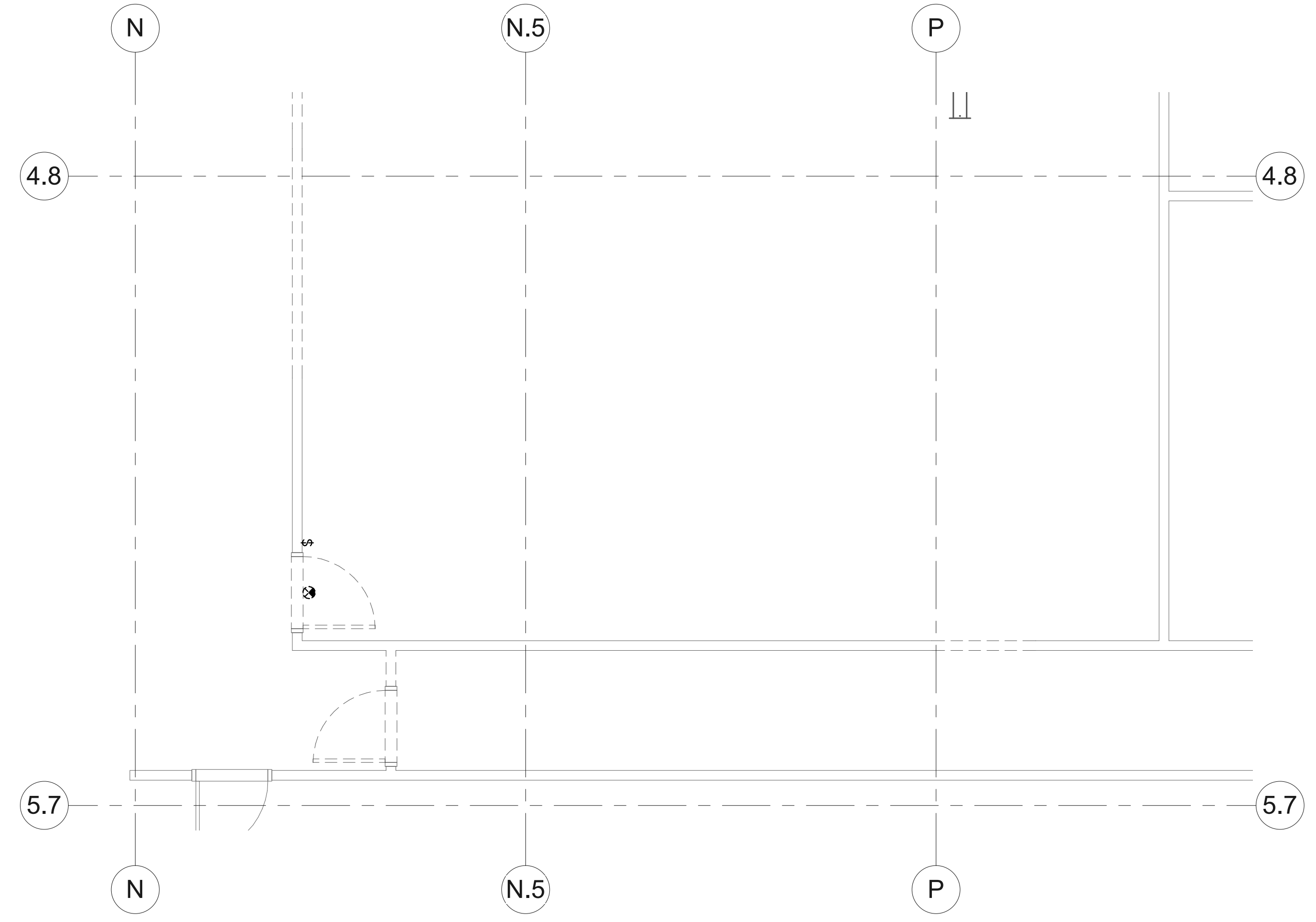
SHEET TITLE AND NUMBER:
EDL101
 LEVEL 1 CEILING DEMOLITION PLAN

THE LINE SHOWN ABOVE IS EXACTLY
 ONE FOOT FROM THE SHEETS
 ORIGINAL PAPER SIZE

GENERAL SHEET NOTES

- 1 UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS.
- 2 SALVAGE ALL LIGHT FIXTURES, TWIST-LOCK RECEPTACLES AND WALLPLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO OWNER. PROTECT SALVAGED EQUIPMENT FROM DAMAGE.
- 3 PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
- 4 PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
- 5 REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED. WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, RE-ROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.
- 6 REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AND INDICATING LOOPS WHERE EXISTING DEVICES ARE REMOVED.
- 7 REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
- 8 DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.
- 9 REFER TO ARCHITECTURAL DRAWINGS FOR REMOVAL OF MOTORS, CONDUIT, CONDUCTOR AND CONTROL WIRING ASSOCIATED WITH EXISTING MOTORIZED DOORS, PARTITIONS AND LIGHTING.
- 10 REMOVE FEEDERS FOR ALL DEMOLISHED PANELS, DISCONNECTS, ETC. BACK TO SOURCE
- 11 ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.
- 12 ALL HVAC UNITS TO BE REMOVED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED RACEWAYS AND CONDUCTORS BACK TO SOURCE.

SHEET KEYNOTES

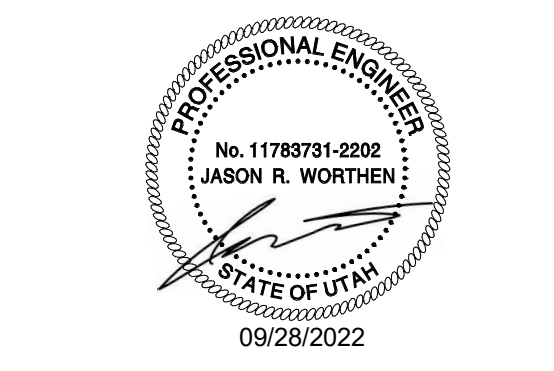


1 LEVEL 3 CEILING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"



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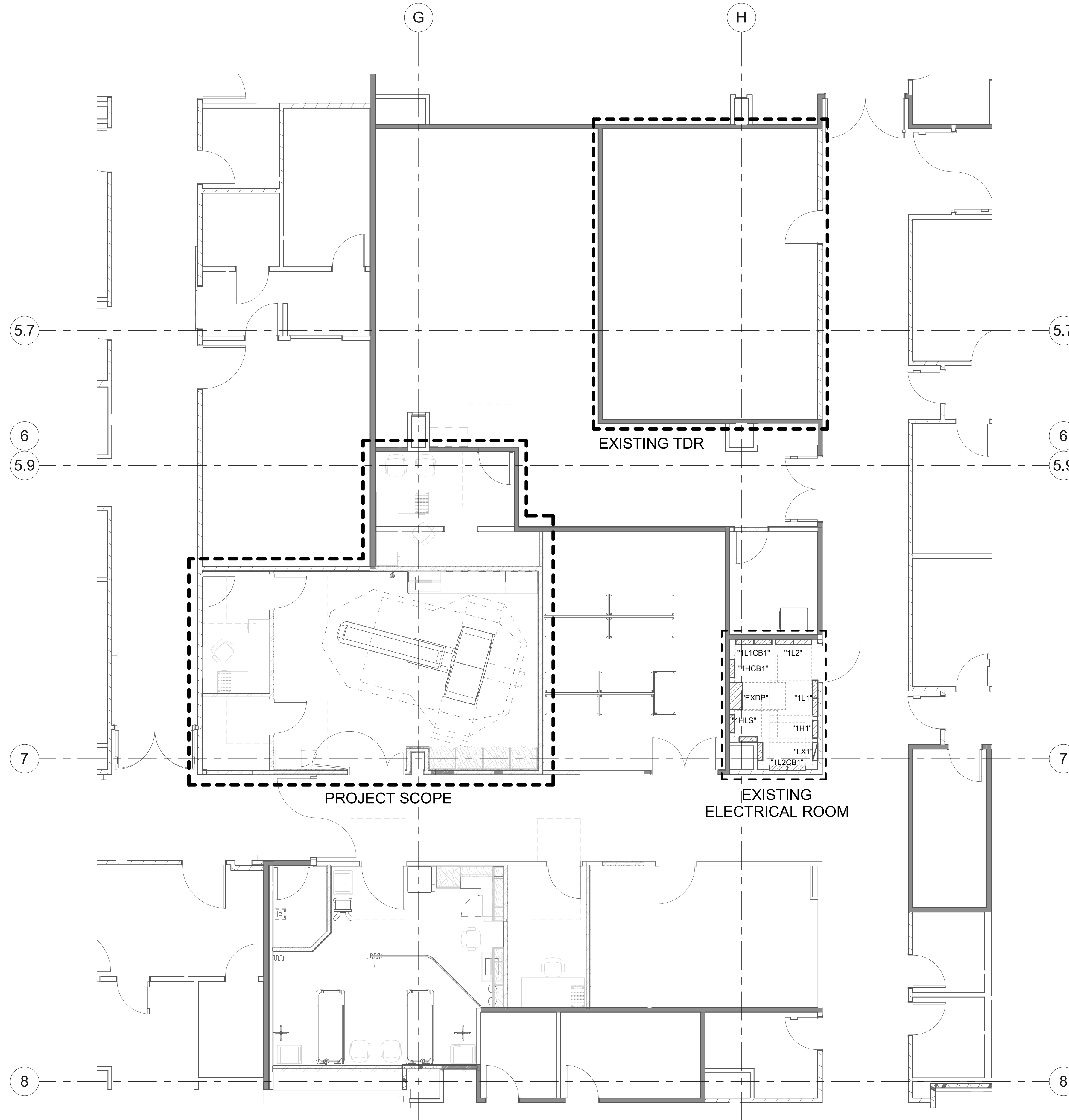


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SHEET TITLE AND NUMBER:
EDL102
 LEVEL 3 CEILING DEMOLITION
 PLAN

PROJECT: 7022021

THE LINE SHOWN ABOVE IS EXACTLY
 ONE FOOT FROM THE CENTER OF
 THE SHEET



1 LEVEL 1 POWER PLAN OVERALL

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

- 1 ALL RECEPTACLES WITHIN 6' OF THE EDGE OF A SINK SHALL BE GFCI PROTECTED.
- 2 PROVIDE DEDICATED NEUTRALS FOR ALL NEW BRANCH CIRCUITS.
- 3 CONTRACTOR TO REFER TO CT DRAWINGS FOR ADDITIONAL RESPONSIBILITIES.
- 4 ALL WIRING IN PATIENT CARE AREAS SHALL MEET THE REQUIREMENTS OF NEC5617.13
- 5 PROVIDE NEW TYPED PANEL SCHEDULES FOR ALL PANELS AFFECTED BY PROJECT SCOPE.

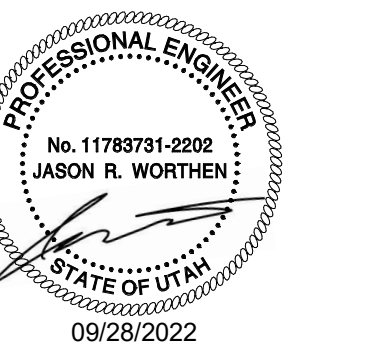
SHEET KEYNOTES



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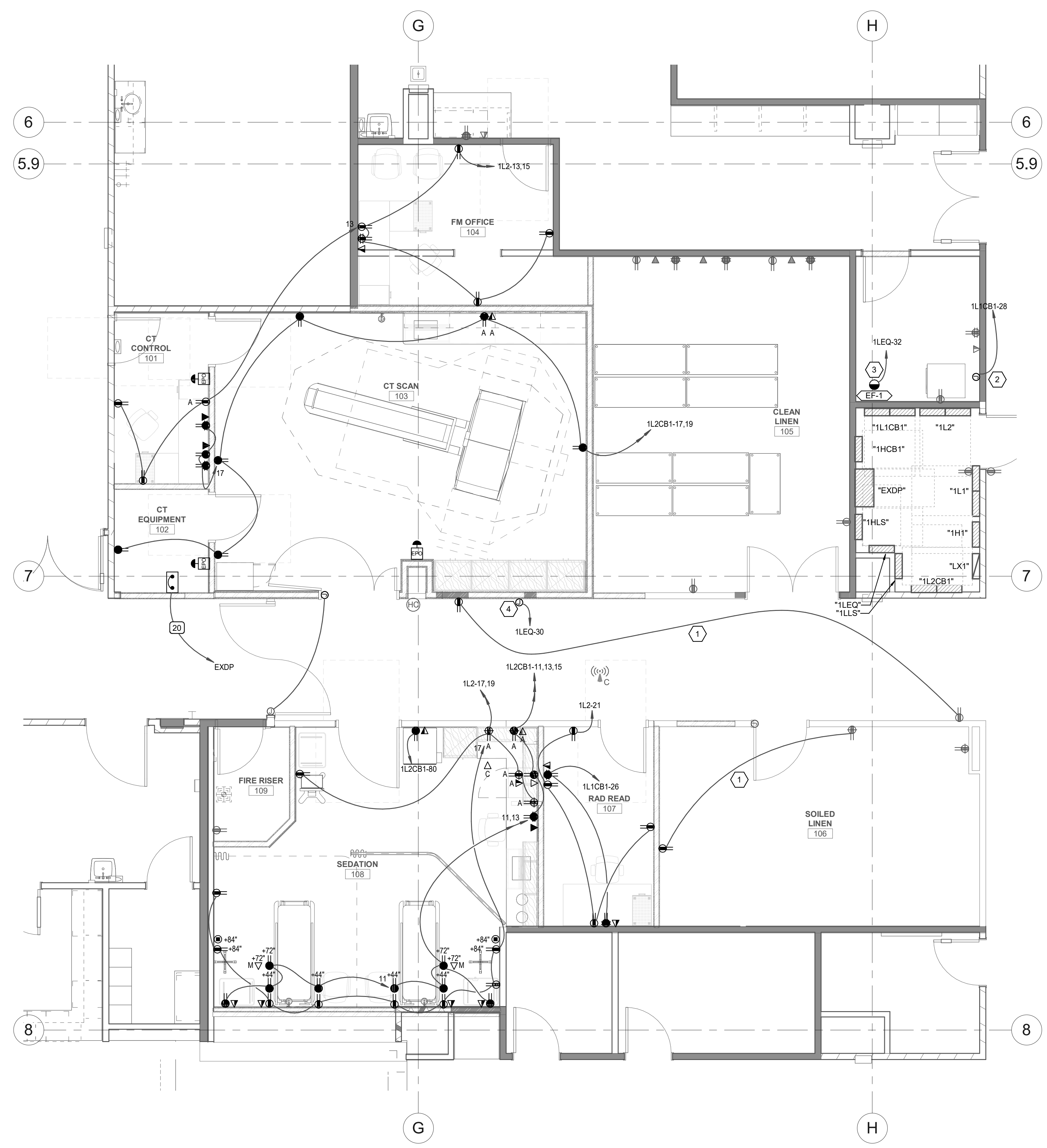
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SHEET TITLE AND NUMBER:

EP100

LEVEL 1 POWER PLAN OVERALL

THE LINE SHOWN ABOVE IS EXACTLY
 ONE FOOT LONG IN ALL SHEETS
 UNLESS OTHERWISE NOTED



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

GENERAL SHEET NOTES

- 1 ALL RECEPTACLES WITHIN 6' OF THE EDGE OF A SINK SHALL BE GFCI PROTECTED.
- 2 PROVIDE DEDICATED NEUTRALS FOR ALL NEW BRANCH CIRCUITS.
- 3 CONTRACTOR TO REFER TO CT DRAWINGS FOR ADDITIONAL RESPONSIBILITIES.
- 4 ALL WIRING IN PATIENT CARE AREAS SHALL MEET THE REQUIREMENTS OF NEC617.13
- 5 PROVIDE NEW TYPED PANEL SCHEDULES FOR ALL PANELS AFFECTED BY PROJECT SCOPE.

SHEET KEYNOTES

- 1 CONNECT TO EXISTING 120V RECEPTACLE CIRCUIT.
- 2 PROVIDE 120V CIRCUIT FOR GAS DRYER.
- 3 PROVIDE A 30A/1P FUSED DISCONNECT WITH AN FRN 15A/1P FUSE.
- 4 PROVIDE A JBOX ABOVE CEILING WITH 120V POWER FOR VAV CONTROLS.

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DATE	DESCRIPTION

PROFESSIONAL ENGINEER
 No. 11789781-2202
 JASON R. WORTHEN
 STATE OF UTAH
 09/28/2022

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 CURRENT: CONSTRUCTION DOCUMENTS

SHEET TITLE AND NUMBER:
EP101
 LEVEL 1 POWER PLAN

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 UNLESS OTHERWISE NOTED
 ORIGINAL PAPER SIZE

SHEET KEYNOTES

GENERAL SHEET NOTES

- 1 ALL RECEPTACLES WITHIN 6' OF THE EDGE OF A SINK SHALL BE GFCI PROTECTED.
- 2 PROVIDE DEDICATED NEUTRALS FOR ALL NEW BRANCH CIRCUITS.
- 3 CONTRACTOR TO REFER TO CT DRAWINGS FOR ADDITIONAL RESPONSIBILITIES.
- 4 ALL WIRING IN PATIENT CARE AREAS SHALL MEET THE REQUIREMENTS OF NEC5617.13
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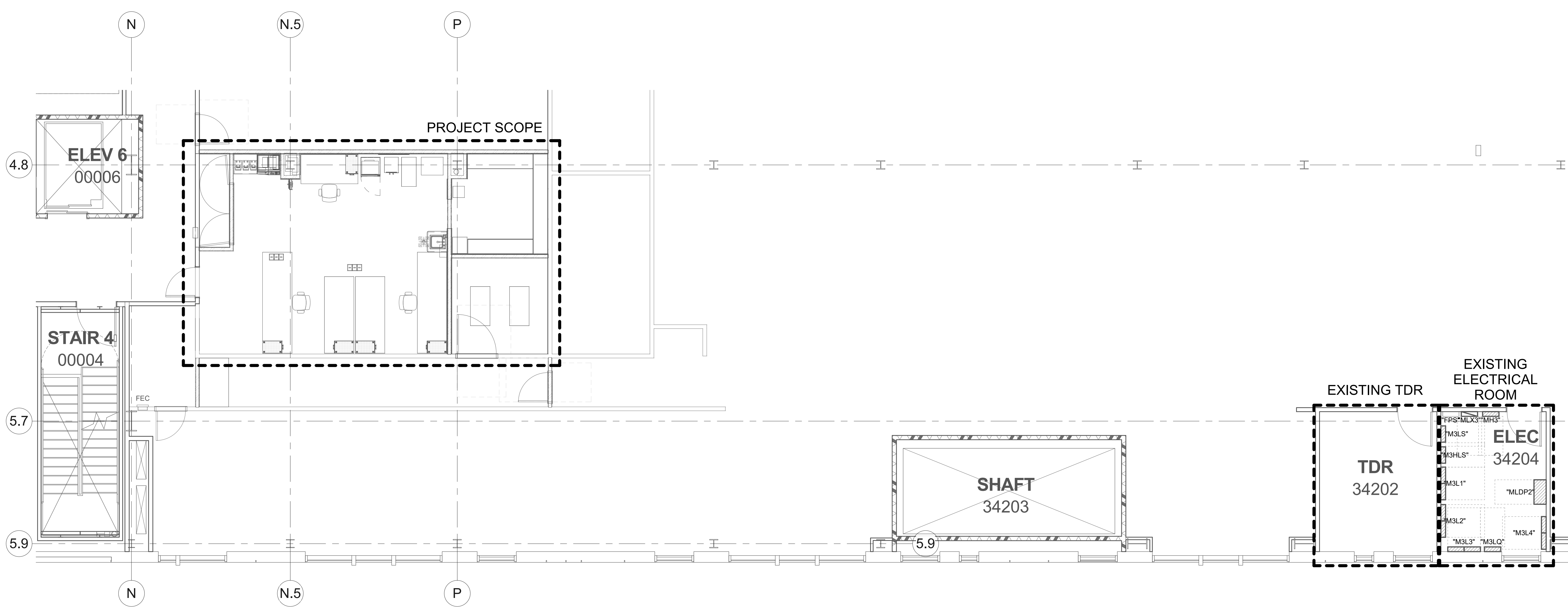
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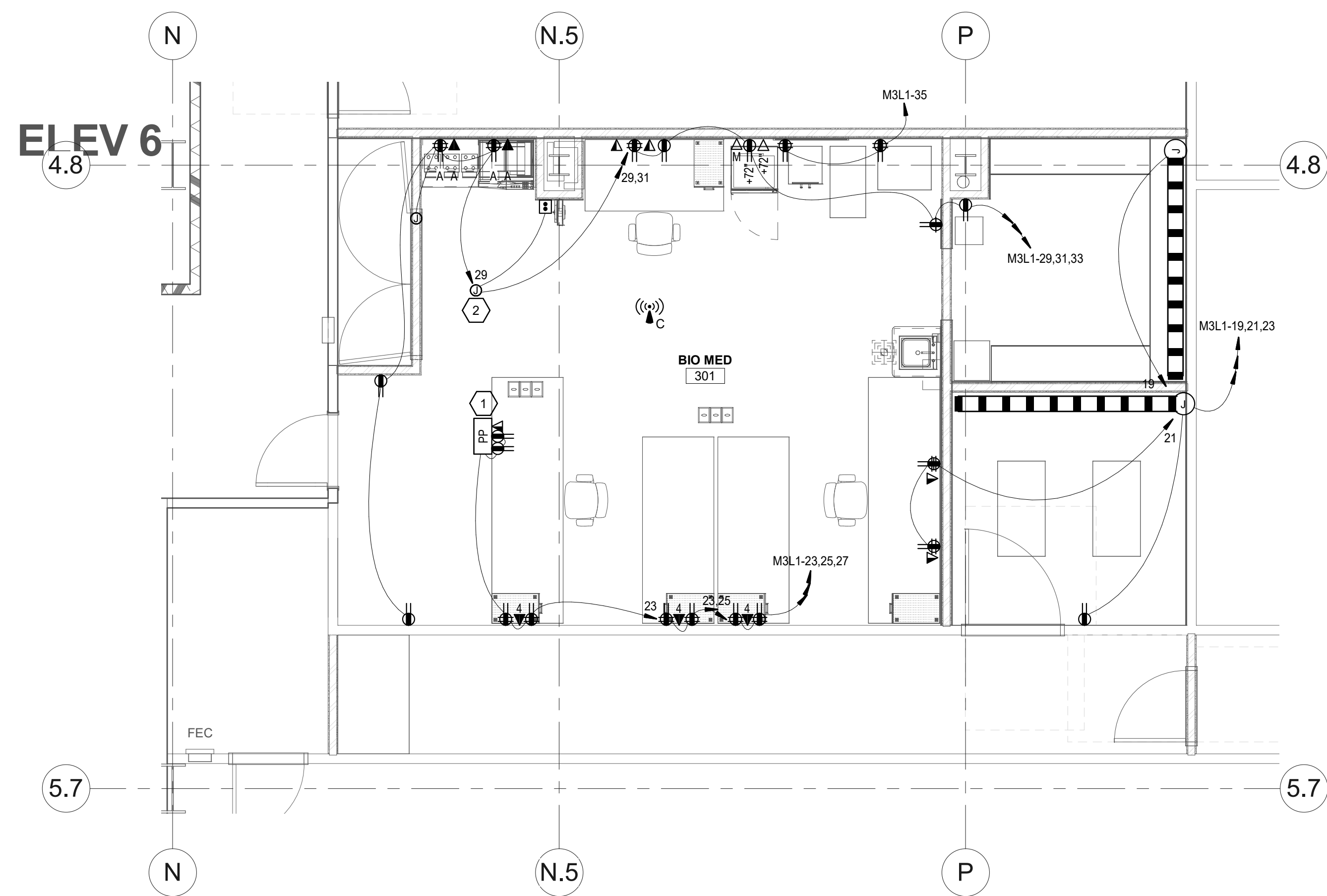


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 CURRENT: CONSTRUCTION DOCUMENTS
 SHEET TITLE AND NUMBER:
EP102
 LEVEL 3 POWER PLAN OVERALL



1 LEVEL 3 POWER PLAN OVERALL
 SCALE: 3/16" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY
 ONE FOOT FROM THE SHEETS
 ORIGINAL PAPER SIZE



1 LEVEL 3 POWER PLAN
 SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

- 1 ALL RECEPTACLES WITHIN 6' OF THE EDGE OF A SINK SHALL BE GFCI PROTECTED.
- 2 PROVIDE DEDICATED NEUTRALS FOR ALL NEW BRANCH CIRCUITS.
- 3 CONTRACTOR TO REFER TO CT DRAWINGS FOR ADDITIONAL RESPONSIBILITIES.
- 4 ALL WIRING IN PATIENT CARE AREAS SHALL MEET THE REQUIREMENTS OF NEC5617.13
- 5 PROVIDE NEW TYPED PANEL SCHEDULES FOR ALL PANELS AFFECTED BY PROJECT SCOPE.

SHEET KEYNOTES

- 1 PROVIDE A LEGRAND 30TP-2WH POWER POLE OR EQUIVALENT.
- 2 PROVIDE A 120V CIRCUIT FOR LIFT.

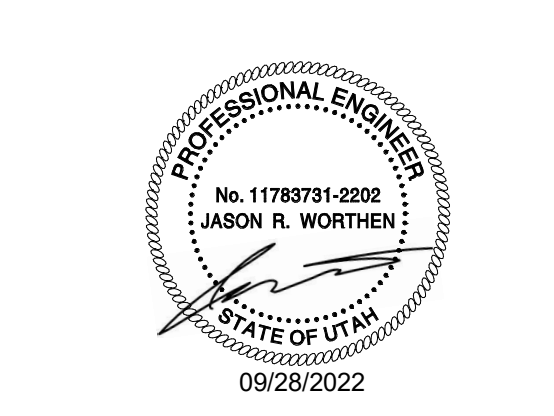
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SHEET TITLE AND NUMBER:
EP103
 LEVEL 3 POWER PLAN

THE LINE SHOWN ABOVE IS EXACTLY ONE LINE FROM THE SHEETS OF THIS DRAWING. SEE THE ORIGINAL DRAWING FOR THE COMPLETE SET OF SHEETS.

COPPER CONDUCTOR AND CONDUIT SCHEDULE

SCHEDULE NUMBER (E.G.) 5 IG
SUBSCRIPT (NOTE 5)

SYM	AMP	CONDUIT SIZE	CONDUCTOR(NOTE 1)			IG/HH	SE	NOTES
			QTY	SIZE	G			
1	20	.75	2	12	12	12	8	2
2	20	.75	3	12	12	12	8	2,3
3	20	.75	4	12	12	12	8	2,3
4	30	.75	2	10	10	10	8	2
5	30	.75	3	10	10	10	8	2
6	30	.75	4	10	10	10	8	2
7	40	1	2	8	10	8	6	2
8	40	1	3	8	10	8	6	2
9	40	1	4	8	10	8	6	2
10	55	1	2	6	10	8	4	2
11	55	1	3	6	10	8	4	2
12	55	1.25	4	6	10	8	4	2
13	70	1	2	4	8	4	2	2
14	70	1.25	3	4	8	4	2	2
15	70	1.25	4	4	8	4	2	2
16	85	1.25	2	3	8	3	2	2
17	85	1.25	3	3	8	3	2	2
18	85	1.25	4	3	8	3	2	2
19	95	1.25	3	2	8	2	2	2
20	95	1.50	4	2	8	2	2	2
21	130	1.50	3	1	6	2	2	2
22	130	1.50	4	1	6	2	2	2
23	150	2	3	1/0	6	2	1/0	2
24	150	2	4	1/0	6	2	1/0	2
25	175	2	3	2/0	6	2	2/0	2
26	175	2	4	2/0	6	2	2/0	2
27	200	2	3	3/0	6	2	2/0	2
28	200	2.50	4	3/0	6	2	2/0	2
29	230	2.50	3	4/0	4	2	2/0	2
30	230	2.50	4	4/0	4	2	2/0	2
31	255	2.50	3	250	4	1	2/0	2
32	255	2.50	4	250	4	1	2/0	2
33	310	3	3	350	3	1/0	3/0	2
34	310	3	4	350	3	1/0	3/0	2
35	380	3.50	3	500	3	3/0	3/0	2
36	380	4	4	500	3	3/0	3/0	2
37	400	2 EA 2	3	3/0	3	3/0	3/0	2
38	400	2 EA 2.50	4	3/0	3	3/0	3/0	2
39	510	2 EA 2.50	3	250	1	4/0	3/0	2
40	510	2 EA 3	4	250	1	4/0	3/0	2
41	620	2 EA 3	3	350	1/0	4/0	3/0	2,4
42	620	2 EA 3	4	350	1/0	4/0	3/0	2,4
43	760	2 EA 3.50	3	500	1/0	4/0	3/0	2,4
44	760	2 EA 4	4	500	1/0	4/0	3/0	2,4
45	855	3 EA 3	3	300	2/0	4/0	3/0	2,4
46	855	3 EA 3	4	300	2/0	4/0	3/0	2,4
47	1000	3 EA 3.50	3	400	2/0	4/0	3/0	4
48	1000	3 EA 3.50	4	400	2/0	4/0	3/0	4
49	1140	3 EA 4	3	500	3/0	4/0	3/0	4
50	1140	3 EA 4	4	500	3/0	4/0	3/0	4
51	1240	4 EA 3	3	350	3/0	4/0	3/0	4
52	1240	4 EA 3	4	350	3/0	4/0	3/0	4
53	1675	5 EA 4	4	400	4/0	4/0	4/0	4
54	2010	6 EA 4	4	400	250	250	250	4
55	2660	7 EA 4	4	500	350	350	350	4
56	3040	8 EA 4	4	500	500	500	500	4
57	4180	11 EA 4	4	500	500	500	500	4
58		5 EA 4						6
59		5						6
60		10 EA 4						6

GENERAL SHEET NOTES

SHEET KEYNOTES

- GROUNDING CONDUCTORS TO BE THE SAME SIZE AS CURRENT CARRYING CONDUCTORS.

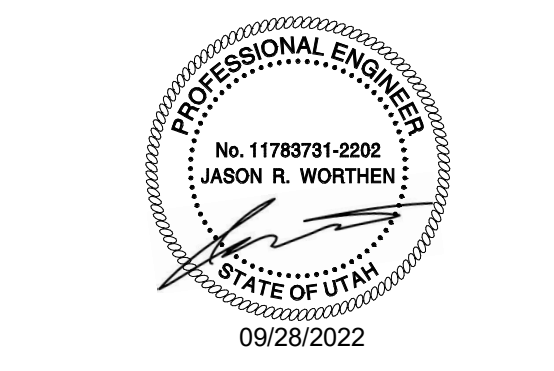
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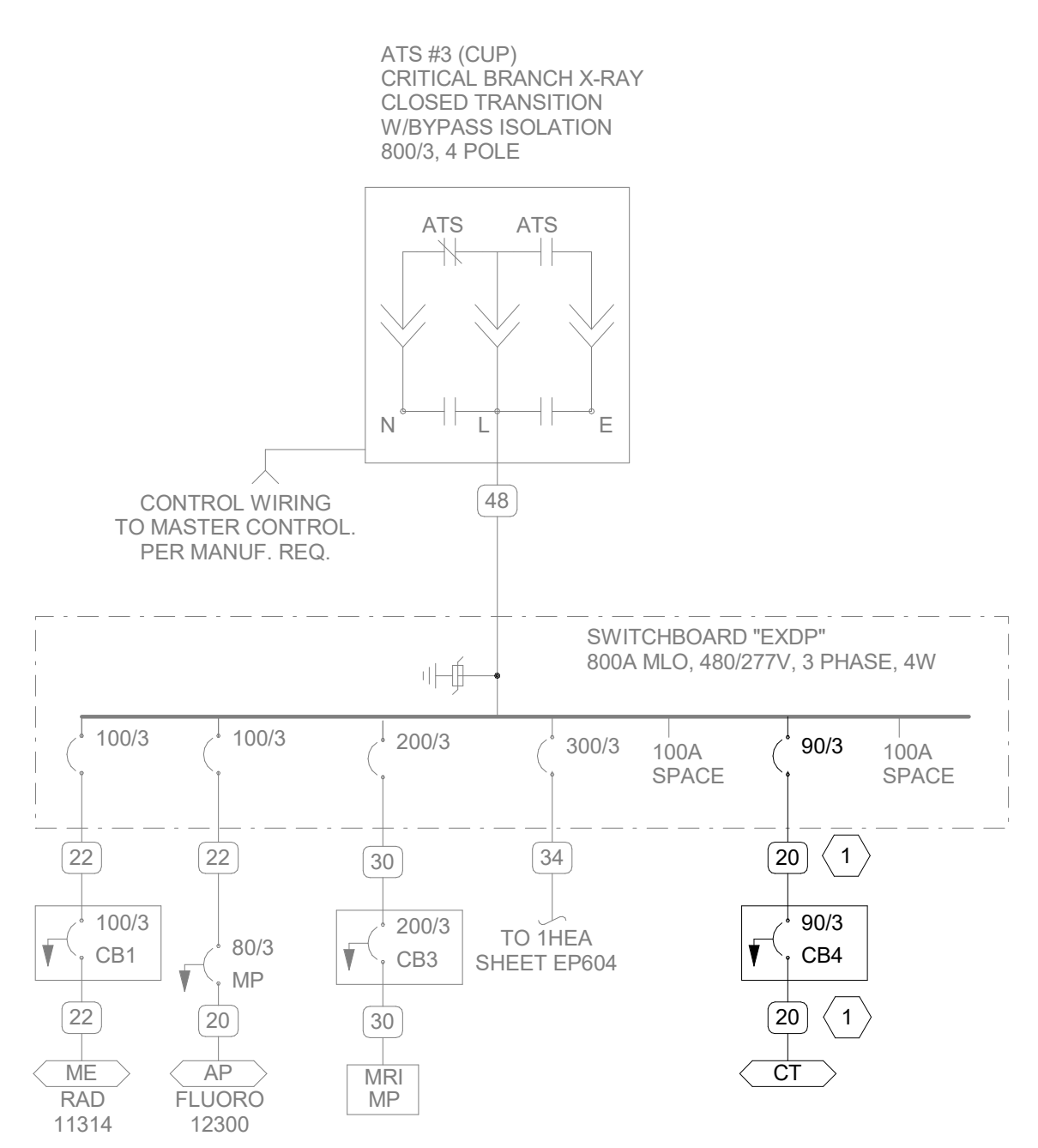
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 SHEET TITLE AND NUMBER:

EP601

ONE-LINE DIAGRAM



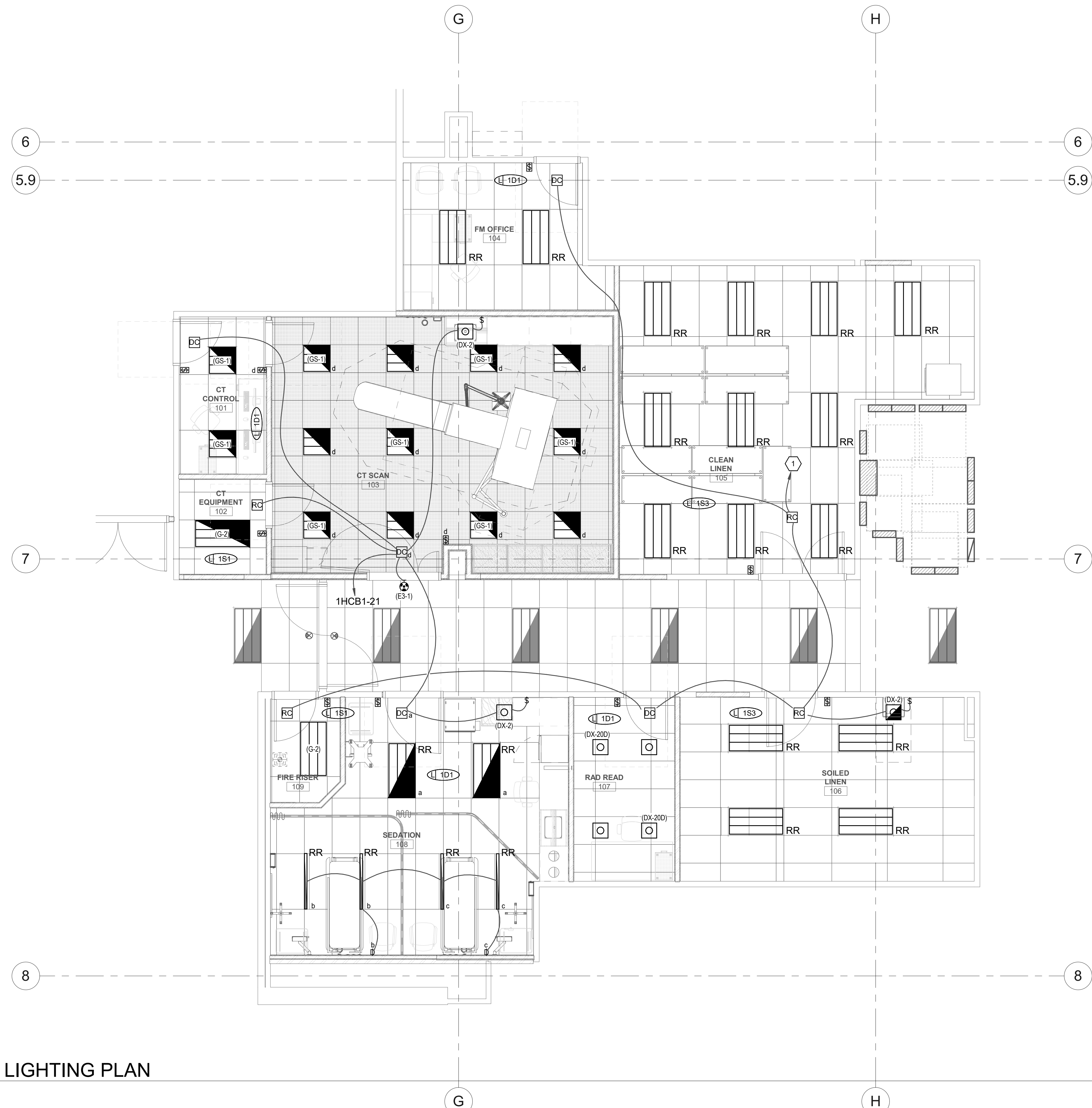
1 ONE LINE DIAGRAM

SCALE: NTS

CONDUCTOR AND CONDUIT SCHEDULE NOTES

- CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
- PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
- PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
- GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
- SYMBOL SUBSCRIPTS:
 - *"2N": INCLUDE TWO NEUTRAL CONDUCTORS, SIZED AS SCHEDULED FOR PHASED AND NEUTRAL CONDUCTORS.
 - *"FG": FULL SIZE GROUND, SIZE EQUIPMENT GROUNDING CONDUCTOR TO BE THE SAME SIZE AS THE PHASE CONDUCTORS.
 - *"HH": NEUTRAL CURRENTS EXIST DUE TO HIGH HARMONIC "NONLINEAR" LOADS. CURRENT CARRYING CONDUCTORS DERATED ACCORDINGLY. PROVIDE THE IG/HH SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.
 - *"IG": INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR) SCHEDULED ALONG WITH GROUND OF EQUIPMENT GROUND CONDUCTOR.
 - *"SE": SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEM.
- RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

THE LINE SHOWN ABOVE IS EXACTLY
 ONE FOOT LONG. ALL DIMENSIONS
 ON THIS SHEET ARE IN FEET AND
 INCHES UNLESS OTHERWISE NOTED.



1 LEVEL 1 LIGHTING PLAN
 SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

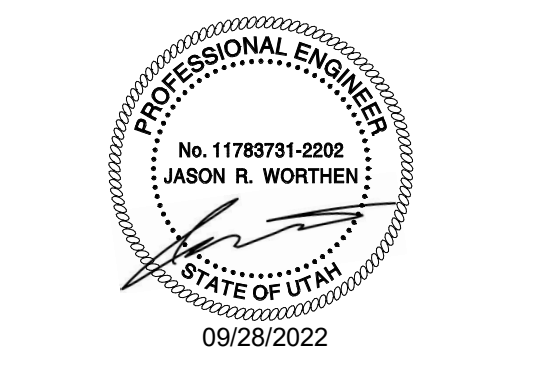
SHEET KEYNOTES

1 CONNECT TO EXISTING LIGHTING CIRCUIT FEEDING LIGHT FIXTURES IN THIS AREA.



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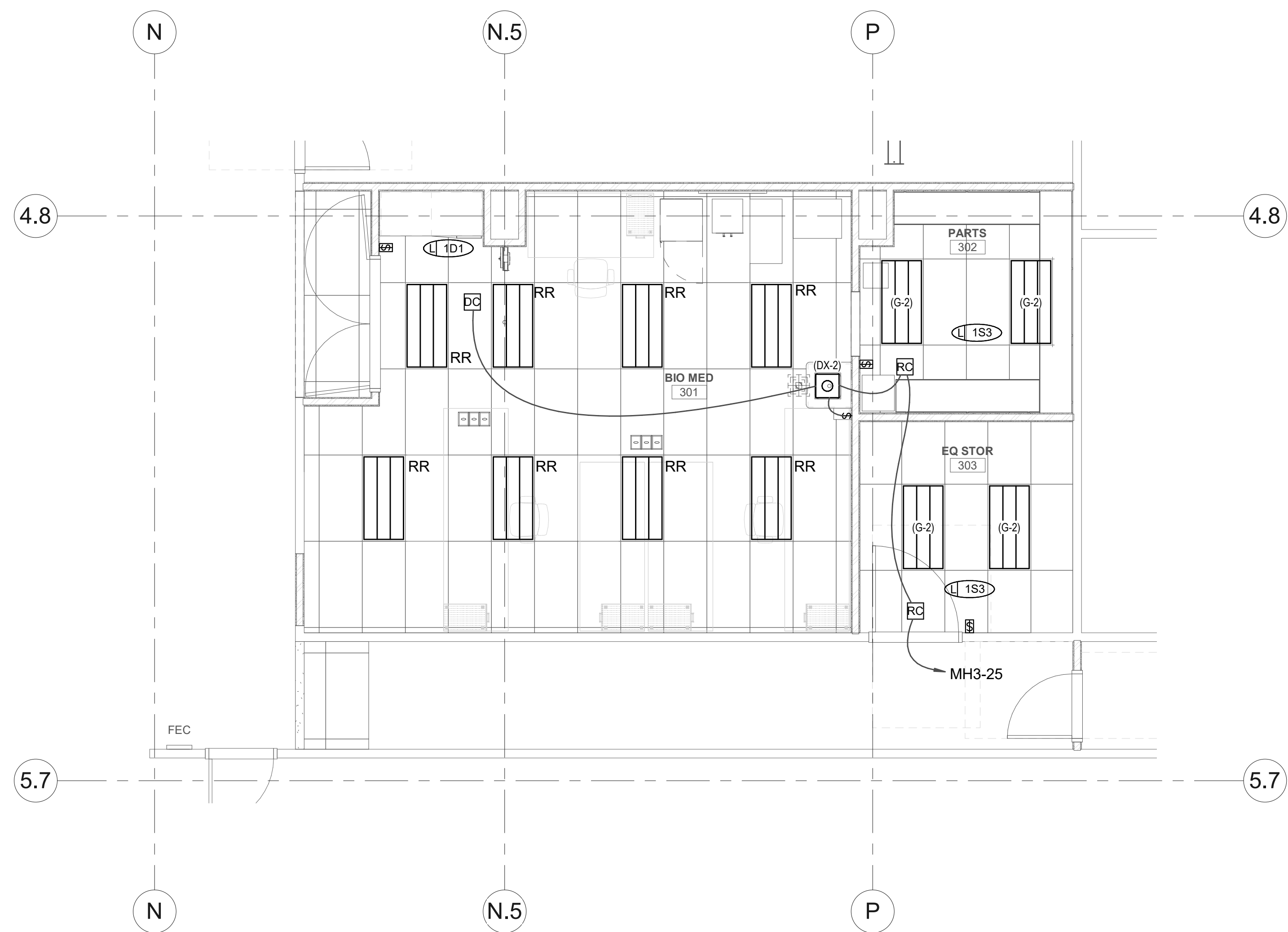


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SHEET TITLE AND NUMBER:
EL101
 LEVEL 1 LIGHTING PLAN

PROJECT: 7022021

THE LINE SHOWN ABOVE IS EXACTLY
 ONE FOOT FROM THE CENTERLINE
 OF THE ROOMS SHOWN BELOW
 UNLESS OTHERWISE NOTED



1 LEVEL 3 LIGHTING PLAN
 SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

SHEET KEYNOTES

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EL102
 LEVEL 3 LIGHTING PLAN

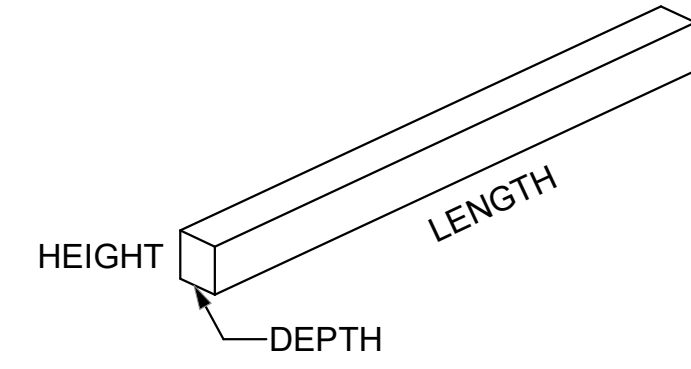
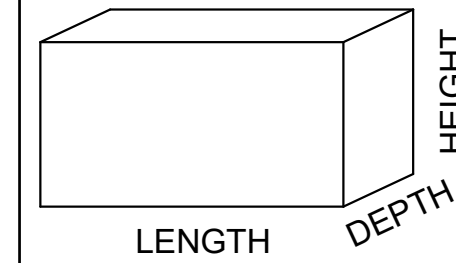
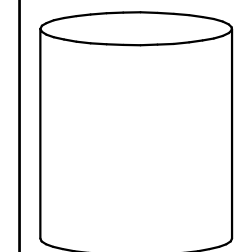
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INTERIOR LIGHTING FIXTURE SCHEDULE

ABBREVIATIONS

MOUNTING

- B - BASE
- C - CEILING
- F - FLANGE
- G - GRID
- P - PENDANT
- PL - POLE
- R - RECESSED
- S - SURFACE
- W - WALL



LUMINAIRE OPTIONS

- ARHR - AIR RETURN AND HEAT REJECTION
- DL - DAMP LOCATION
- EOC - EARTHQUAKE CLIPS
- F - FUSING
- HLD - HINGED AND LATCHED DOOR
- HS - HOUSE SIDE SHIELD
- PS - PHOTOCCELL SWITCH
- QRS - QUARTZ RESTRIKE
- ST - STATIC
- WG - WIRE GUARD
- WL - WET LOCATION

FINISH

- MMW - MATTE WHITE
- BL - BLACK
- SL - SILVER
- GL - GOLD
- CL - CLEAR
- PNW - PAINTED WHITE
- EA - EXTRUDED ALUMINUM
- S - STEEL
- GS - GALVANIZED STEEL
- C - CAST
- CBA - COLOR BY ARCHITECT
- SCBA - STANDARD COLOR BY ARCHITECT
- CCA - CUSTOM COLOR BY ARCHITECT
- FS - MEETS FEDERAL STANDARD 209D
- TP - THERMALLY PROTECTED
- FL - FLUSH
- R - REGRESS
- M - MITERED

DIFFUSER/LENS

- #A - ACRYLIC #THICK
- #OA - ACRYLIC #THICK (OPAL)
- GC - GLASS (CLEAR)
- GO - GLASS (OPAL)
- GF - GLASS (FROSTED)
- SGL - SOFT GLOW LENS
- HPL - HIGH PERFORMANCE LENS
- DO - DROP OPAL
- CGL - CONVEX GLASS LENS
- S - SATIN LENS

REFLECTOR

- OP - NONE/OPEN
- SP - SPECULAR
- SS - SEMI-SPECULAR
- D - DIFFUSE (WHITE ENAMEL)
- SC - SPECULAR (COLORED)
- PR - PRISMATIC
- FDR - FULL DEPTH REFLECTOR
- DS - DIFFUSE (SEMI SPECULAR) SILVER
- LI - LOW IRIDESCENT
- IR - IRIDESCENT
- SL - SILVER
- GL - GOLD
- CA - CLEAR ALZAK

NOTES

GENERAL NOTES

1. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER.
2. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES.
3. SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING, THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING.
4. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES.
5. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION.
6. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS.
7. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS.
8. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, DRIVERS, AND LAMPS.
9. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER.

ID	DESCRIPTION	NOMINAL SIZE				MOUNTING	TYPE	COLOR TEMP	CRI	DRIVER CONFIGURATION	VOLTAGE	WATTS	FINISH	FIXTURE LUMENS	DIFFUSER/LENS	REFLECTOR	OPTIONS	NOTES	MANUFACTURER (CATALOG SERIES)			
		LENGTH	DEPTH	HEIGHT	DIAMETER/APERTURE														OPTION 1	OPTION 2	OPTION 3	
(DX-2)	6" ROUND, RECESSED LED DOWNLIGHT, SEMI-SPECULAR REFLECTOR, WHITE TRIM FINISH	-	-	-	0' - 6"	CR	LED	3500K		0-10V DIMMING (10%)	120/277	23	-	2000			-			GOTHAM (EVO-35/20-6AR-WD-LSS-MVOLT-EZ10-TWR)	LITON (LHALD625CO71-D10/LRALD63WF151-B60-T35)	HALO (HC6)
(DX-20D)	6" ROUND, RECESSED LED DOWNLIGHT, SEMI-SPECULAR REFLECTOR, WHITE TRIM FINISH	-	-	-	0' - 6"	CR	LED	3500K		0-10V DIMMING (10%)	120/277	23	-	2000			-			GOTHAM (ECO-35/20)	LITON (LHALD62)	HALO (HC6)
(E3-1)	X-RAY IN USE WARNING LIGHT	-	-	-	-	UNV	LED			NO DIMMING	120/277	3	-	0			-			DUEAL-LITE (SESRSW4)		
(G-2)	2' X 4' LED FLAT PANEL, GRID LAY-IN	4' - 0"	2' - 0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	50	-	4300			-			TRULY GREEN (88)	LITHONIA (EPANL)	DAYBRITE (FXP)
(GS-1)	2' X 2' LED TROFFER, EDGE LIT PANELS, GRID LAY-IN	2' - 0"	2' - 0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	29	-	3400			-			METALUX (22EN-LD2-25-UNV-L835-C-D1-U)	HE WILLIAMS (AP-22-L43/835-DM1-UMV)	LITHONIA (EVNX)

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 INTERMOUNTAIN HEALTH CARE LAYTON
 HOSPITAL - CT REMODEL
 207 LAYTON PARKWAY
 LAYTON, UT 84041

DATE	DESCRIPTION

PROFESSIONAL ENGINEER
 No. 11789781-2202
 JASON R. WORTHEN
 STATE OF UTAH
 09/28/2022

ORIG SUBMISSION: 09/28/22
 CURRENT: CONSTRUCTION DOCUMENTS
 SHEET TITLE AND NUMBER:
EL601
 INTERIOR LIGHTING FIXTURE SCHEDULE

PROJECT: 7022021

LIGHTING/SPACE CONTROL TYPE SCHEDULE

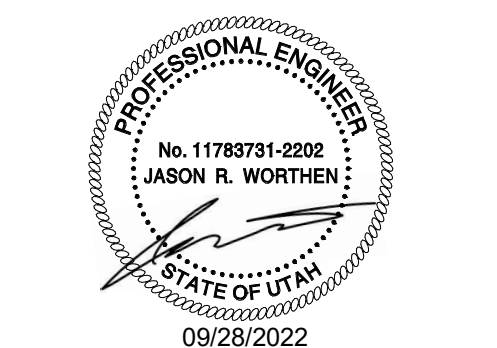
WIRING LEGEND	APPROVED MANUFACTURERS	LIGHTING CONTROL ID	GENERAL NOTES	GENERAL NOTES
— LINE VOLTAGE WIRING - - - - 0-10V WIRING - - - - CAT5E CABLING — WIRING BY OTHERS ○—○ TMP SEGMENT NETWORK CABLING	1. WATTSTOPPER (BASIS OF DESIGN) 2. NLIGHT 3. HUBBELL BUILDING AUTOMATION 4. GREENGATE	1. # = NUMBER OF ZONES 2. D = DIMMING, S = SWITCHING 3. P = DAYLIGHT PHOTOCELL 4. L = PLUG LOAD CONTROLLER 5. # = INSTANCE	1. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER. 2. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION. 3. PROVIDE CUSTOMIZED ENGRAVED PERMANENT BUTTON LABELS ON EACH SWITCH, LABEL TO MATCH BUTTON LABEL ID OR AS DIRECTED BY OWNER. 4. PART NUMBERS SHOWN ARE BASED ON WATTSTOPPER AS THE BASIS OF DESIGN. ALL APPROVED MANUFACTURERS ARE SUBJECT TO MEETING ALL FUNCTIONS AND CAPABILITIES OF THE BASIS OF DESIGN SYSTEM AND PRODUCTS. FAILURE TO MEET THESE SHALL REQUIRE THE CONTRACTOR TO PROVIDE A SYSTEM THAT DOES AT NOT ADDITIONAL COST.	5. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES. 6. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS. 7. WIRING MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED WIRING THAT WILL BOTH MEET THE MANUFACTURERS REQUIREMENTS AND MATCH WITH THE SHOWN SYSTEM. 8. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS INCLUDING OCCUPANCY SENSOR LAYOUT AND COVERAGE PATTERNS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR 100% COVERAGE OF SPACES WITH OCCUPANCY SENSOR CONTROL.

ID	DETAIL	LIGHTS ON CONTROL	LIGHTS OFF CONTROL	LIGHTING CONTROL TYPE	DAYLIGHT SENSOR SETTING (FC)	TIME DELAY TO OFF (MIN.)	BAS AUX RELAY SIGNAL	PLUG LOAD CONTROLLER	NETWORKED CONTROLS	BUTTON_1	BUTTON_2	BUTTON_3	BUTTON_4	BUTTON_5	BUTTON_6	BUTTON_7	BUTTON_8	BUTTON_9	NOTES
1D1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP "ON/RAISE" BOTTOM "OFF/LOWER"	-	-	-	-	-	-	-	-	-
1S1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	ON/OFF	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS-ON PRESS-OFF LABEL ID: "ON/OFF"	-	-	-	-	-	-	-	-	-
1S3		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	ON/OFF	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS-ON LABEL ID: "ON"	FUNCTION: PRESS-OFF LABEL ID: "OFF"	-	-	-	-	-	-	-	-



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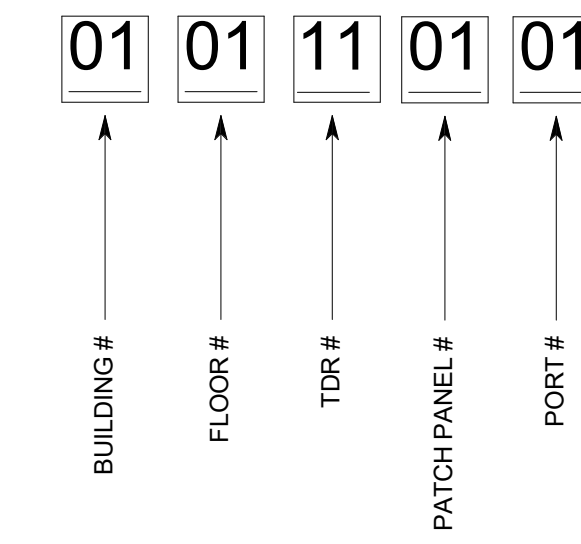


ORIG SUBMISSION: 09/28/22
 CURRENT: CONSTRUCTION DOCUMENTS
 SHEET TITLE AND NUMBER:
EL602
 LIGHTING CONTROL SCHEDULES

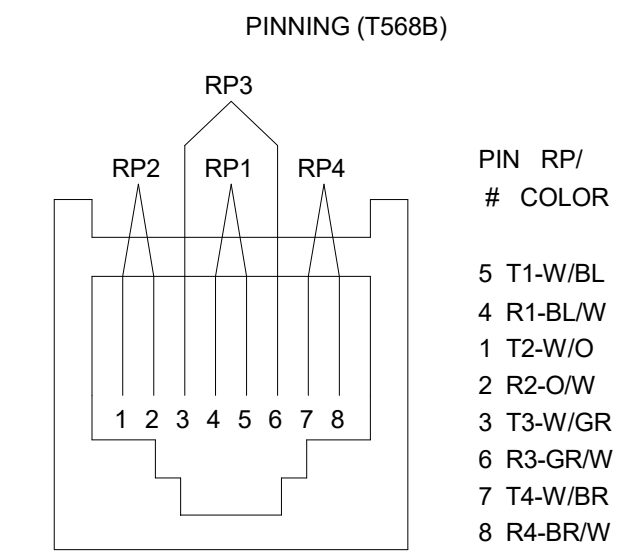
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH EQUAL TO THE ORIGINAL SIZE

PROJECT: 7022021

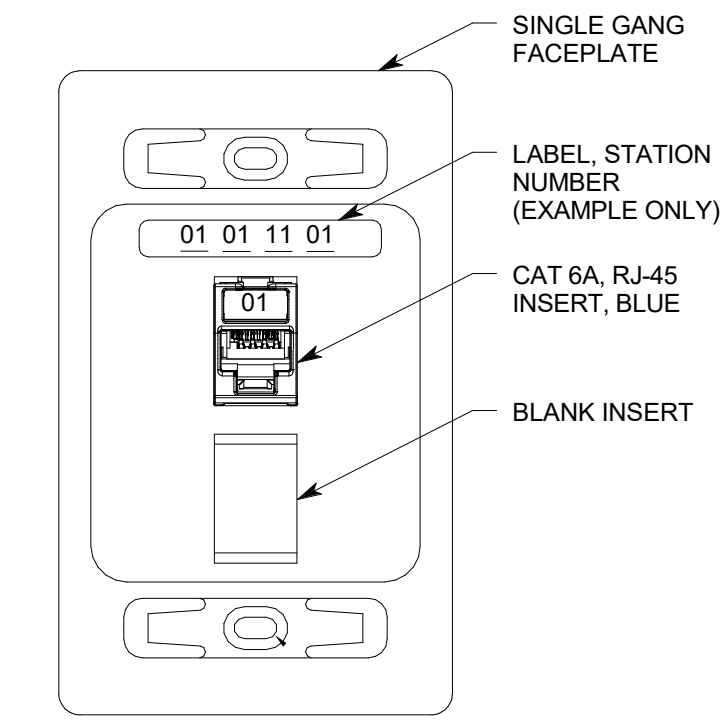
THE LINE SHOWN ABOVE IS EXACTLY
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 UNLESS OTHERWISE SPECIFIED
 ARE IN INCHES.



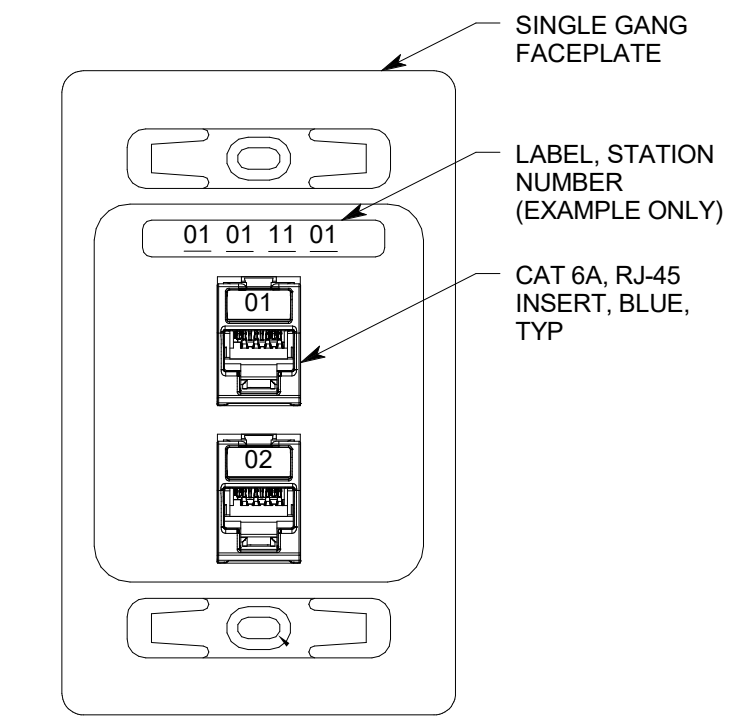
8 CABLE ID
 EXAMPLE DETAIL
 NO SCALE



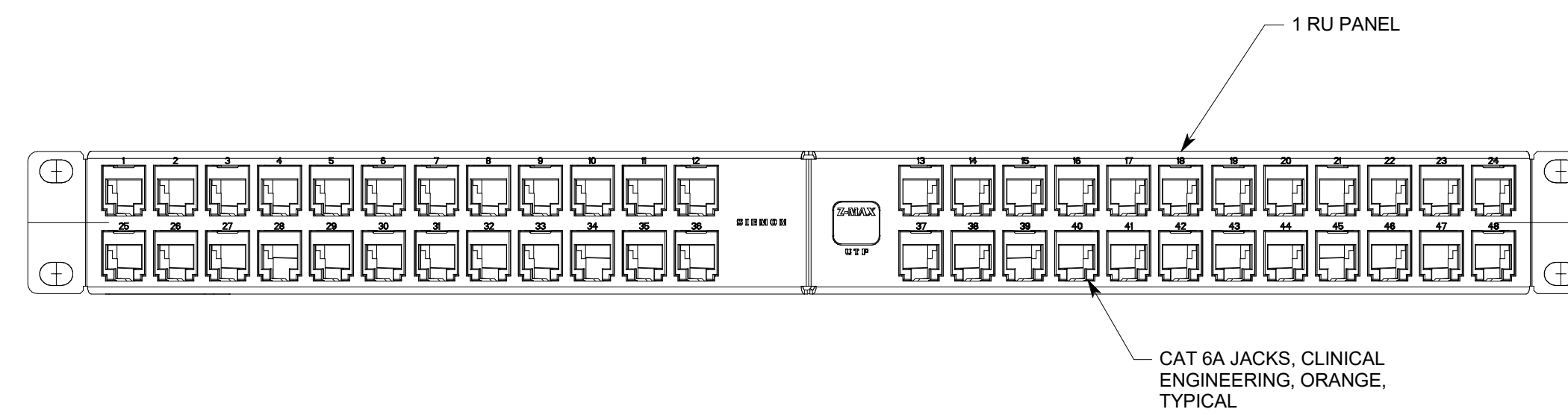
4 TYPICAL VOICE-DATA
 OUTLET PINNING DETAIL
 NO SCALE



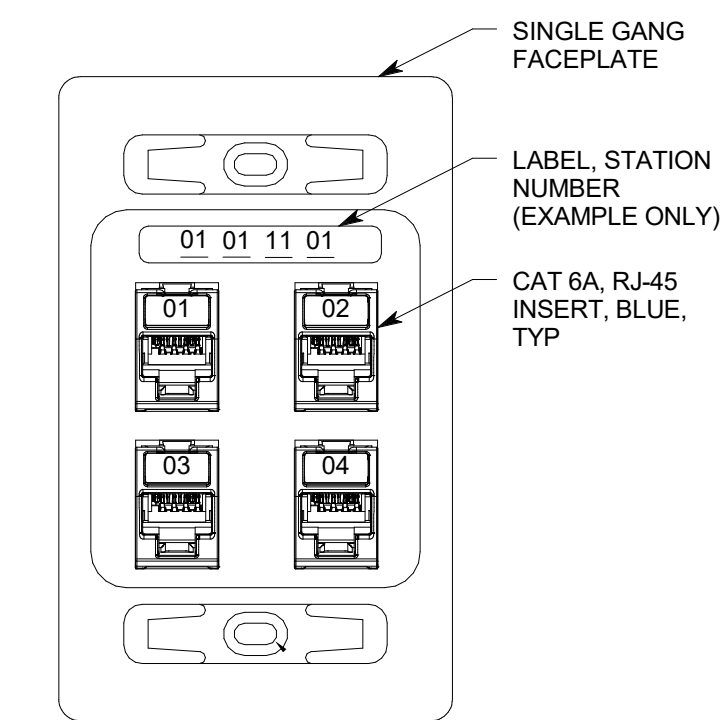
7 TYPICAL 1-PORT
 DATA OUTLET
 NO SCALE



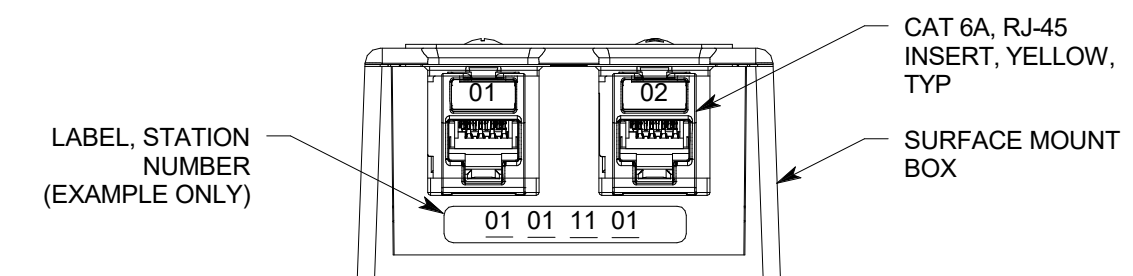
3 TYPICAL 2-PORT
 DATA OUTLET
 NO SCALE



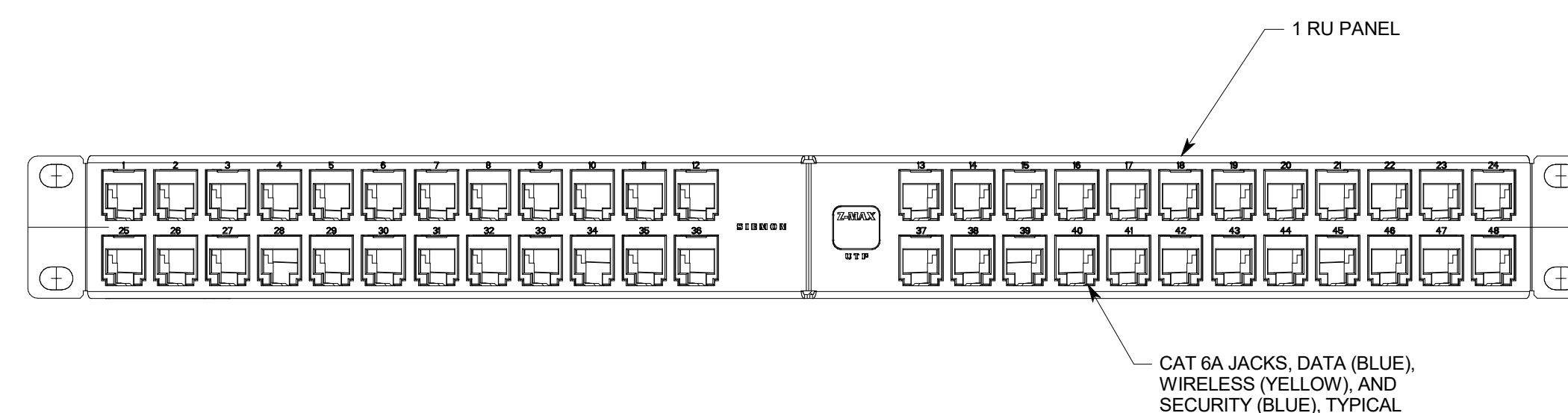
10 CLINICAL ENGINEERING PATCH PANEL, (CEPP1)
 NO SCALE



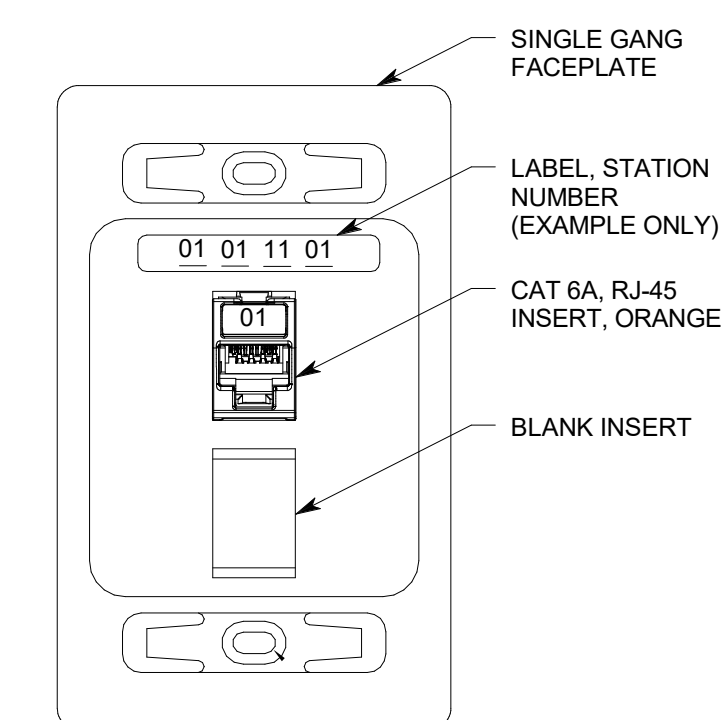
6 TYPICAL 4-PORT
 DATA OUTLET
 NO SCALE



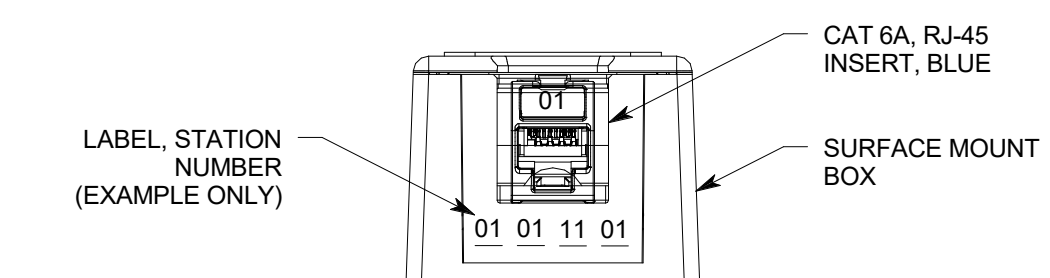
2 TYPICAL 'WAP'
 DATA OUTLET
 NO SCALE



9 STATION PATCH PANEL, (SPP1)
 NO SCALE



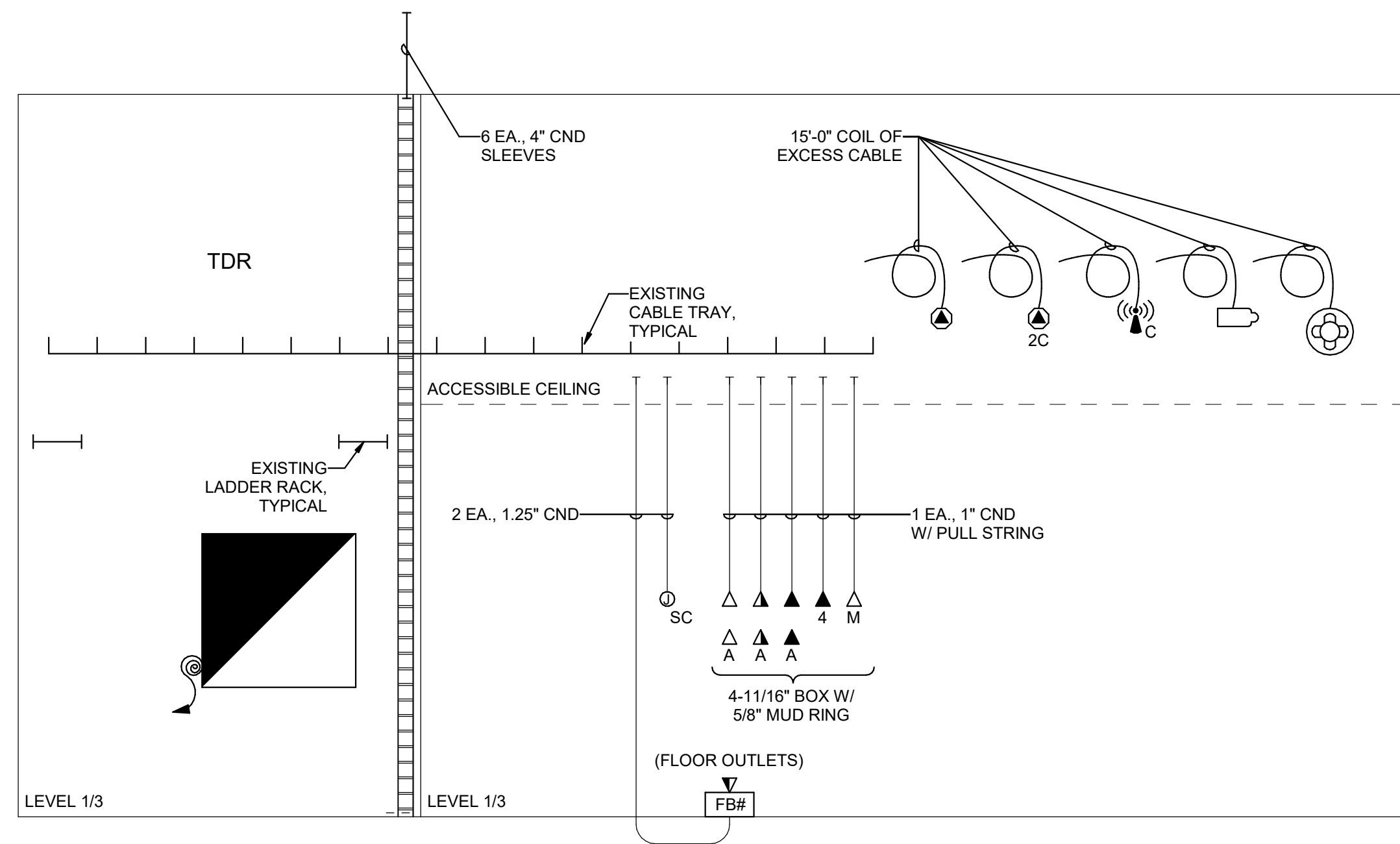
5 TYPICAL 1-PORT
 PHYS MON DATA OUTLET
 NO SCALE



1 TYPICAL 1-PORT
 CAMERA DATA OUTLET
 NO SCALE

DATE	DESCRIPTION

THE LINE SHOWN ABOVE IS EXACTLY
 ONE FOOT LONG. ALL DIMENSIONS
 ON THIS SHEET ARE TO THIS SCALE.



A4 TELECOM CONDUIT RISER DIAGRAM
 SCALE: NTS



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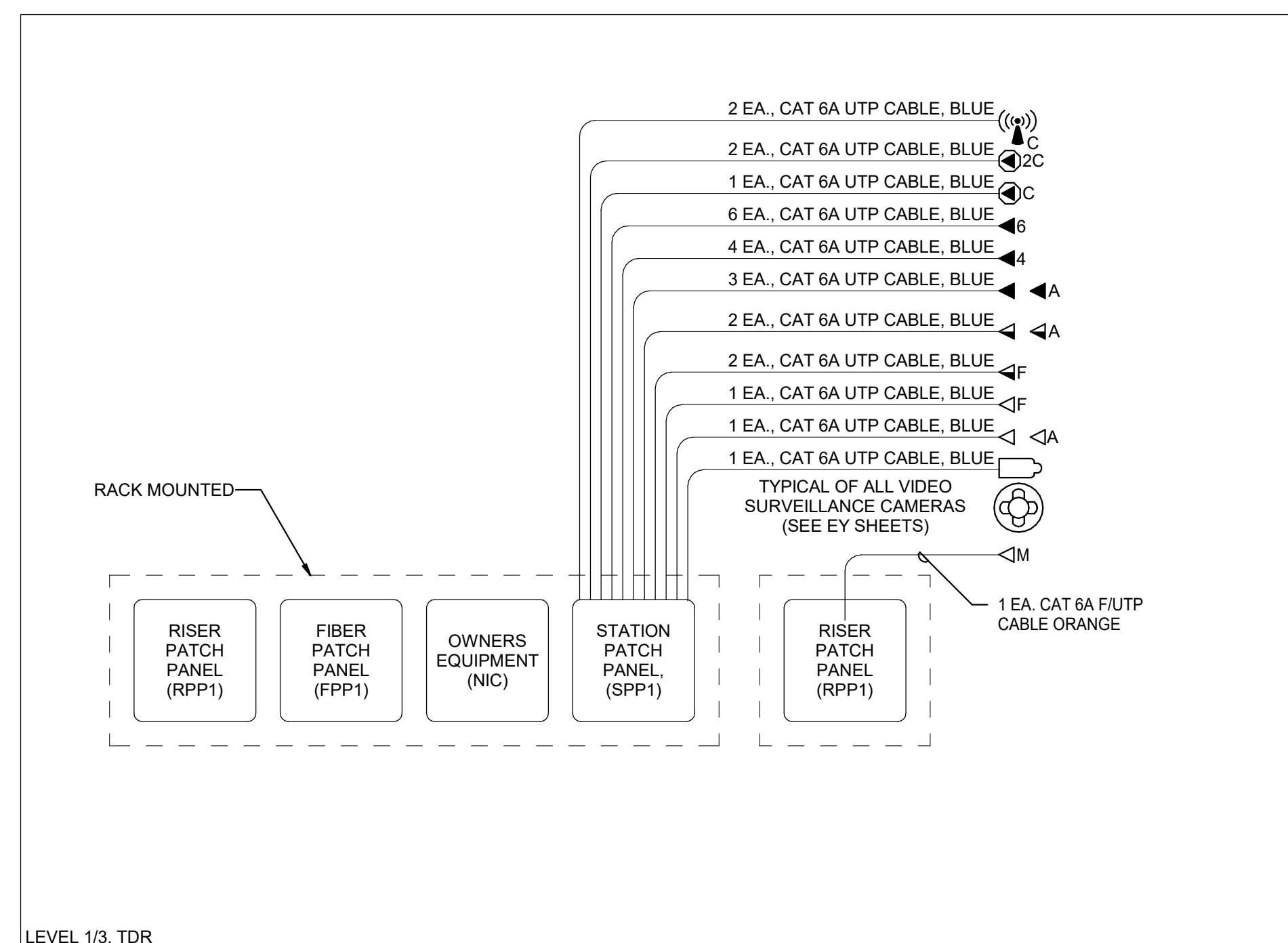
DATE	DESCRIPTION



ORIG SUBMISSION: 09/28/22
 CURRENT: CONSTRUCTION DOCUMENTS

SHEET TITLE AND NUMBER:
ET601
 TELECOM CONDUIT RISER
 DIAGRAM

THE LINE SHOWN ABOVE IS EXACTLY
 ONE FOOT LONG. SEE EY SHEETS
 FOR DIMENSIONS AND
 ORIGINAL PANEL SIZE.



LEVEL 1/3, TDR

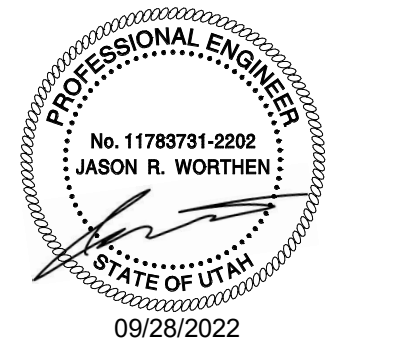
A4 TELECOM CABLE RISER DIAGRAM
 SCALE: NTS



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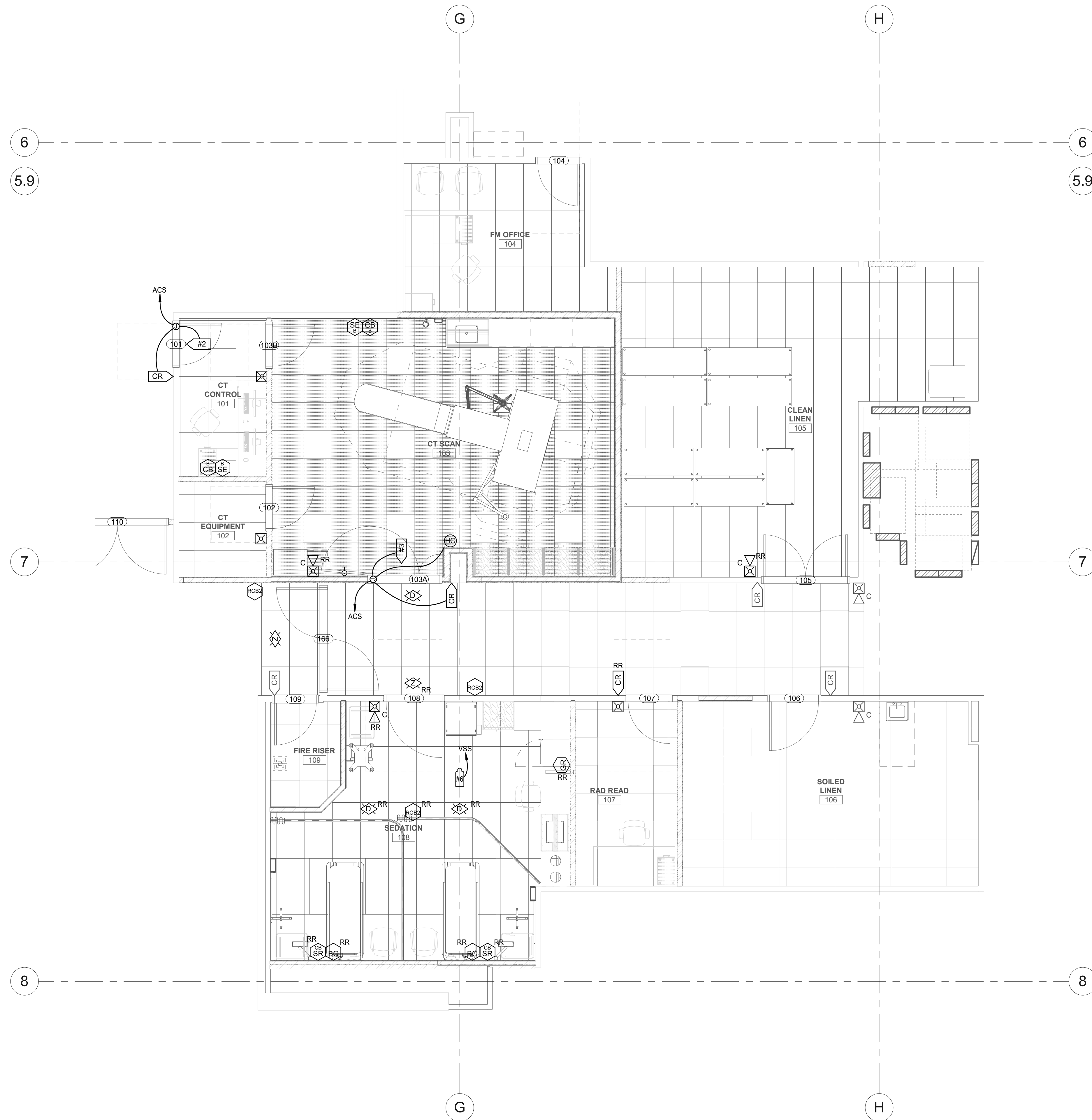
DATE	DESCRIPTION



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 CURRENT: CONSTRUCTION DOCUMENTS

SHEET TITLE AND NUMBER:
ET602
 TELECOM CABLE RISER DIAGRAM

THE LINE SHOWN ABOVE IS EXACTLY
 ONE FOOT LONG. ALL DIMENSIONS
 ON THIS SHEET ARE IN FEET AND
 INCHES UNLESS OTHERWISE NOTED.



1 LEVEL 1 AUXILIARY PLAN
 SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

SHEET KEYNOTES

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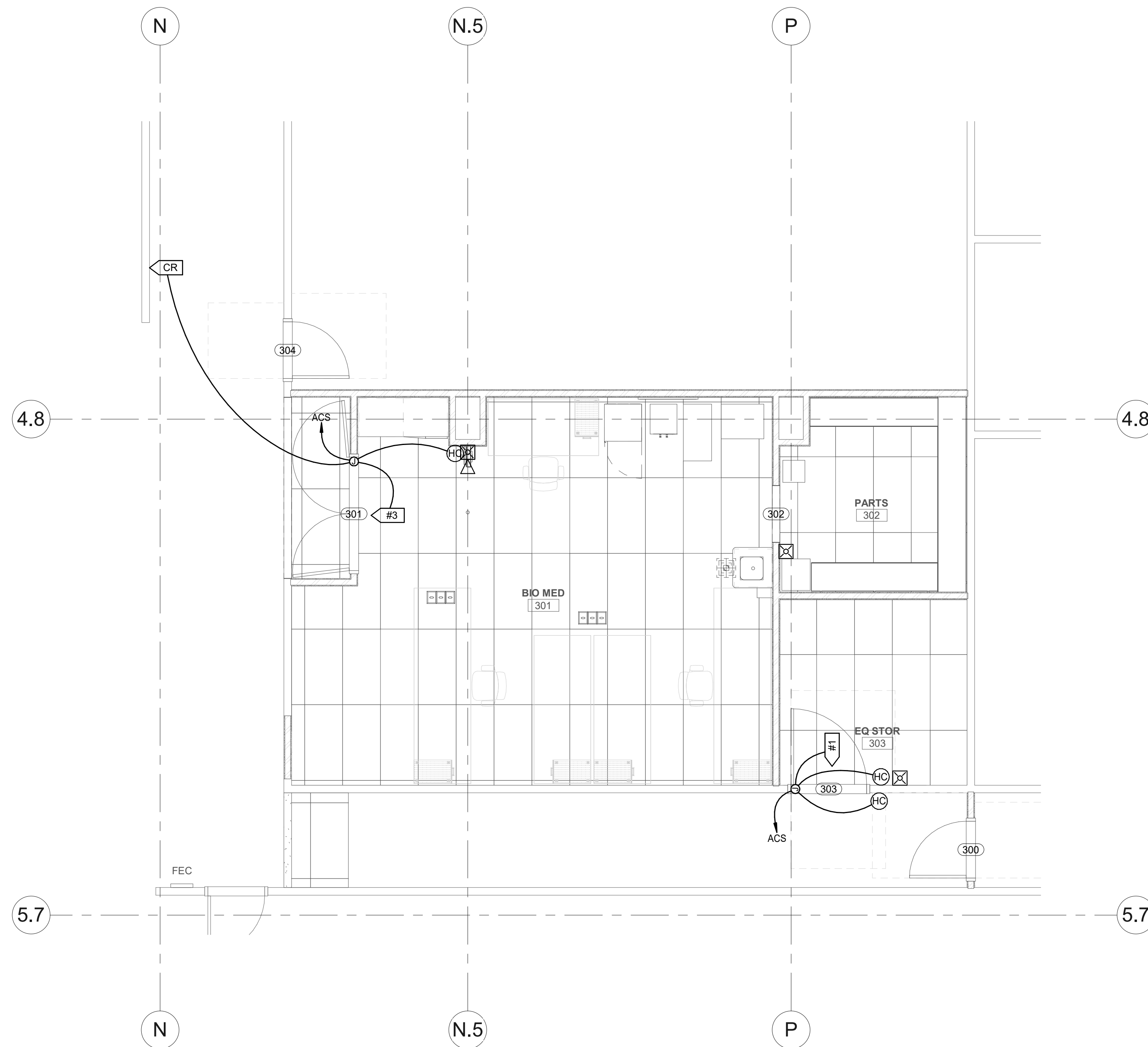
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DATE	DESCRIPTION



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 CURRENT: CONSTRUCTION DOCUMENTS
 SHEET TITLE AND NUMBER:
EY101
 LEVEL 1 AUXILIARY PLAN

THE LINE SHOWN ABOVE IS EXACTLY
 ONE FOOT LONG. ALL DIMENSIONS
 ON THIS SHEET ARE TO THIS SCALE.



1 LEVEL 3 AUXILIARY PLAN
 SCALE: 1/4" = 1'-0"

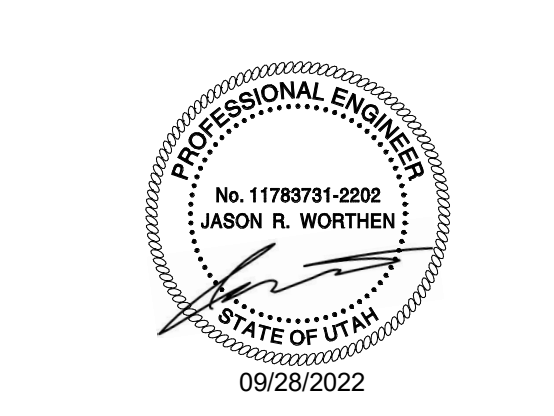
GENERAL SHEET NOTES

SHEET KEYNOTES



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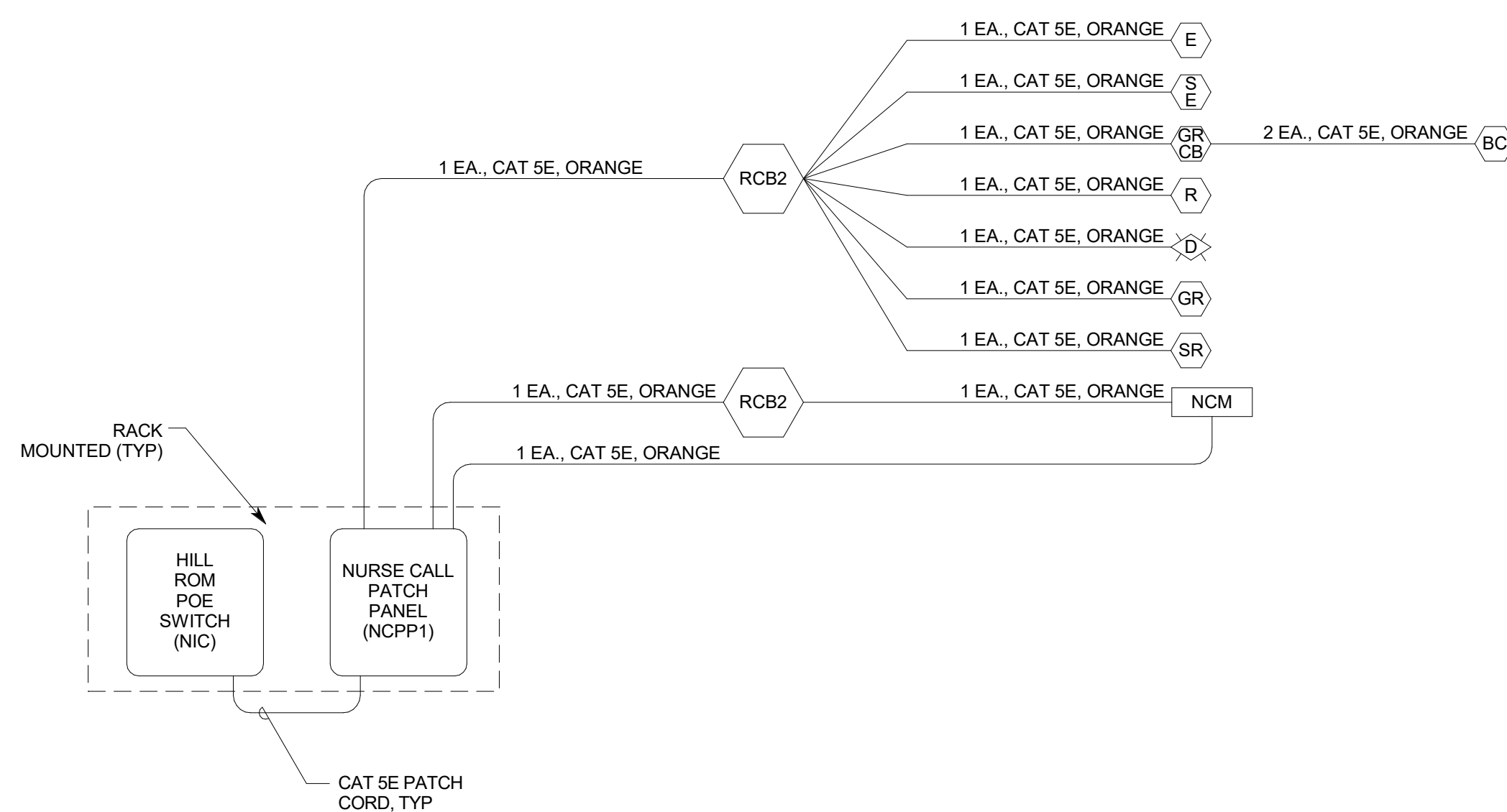


ORIG SUBMISSION: 09/28/22
 CURRENT: CONSTRUCTION DOCUMENTS

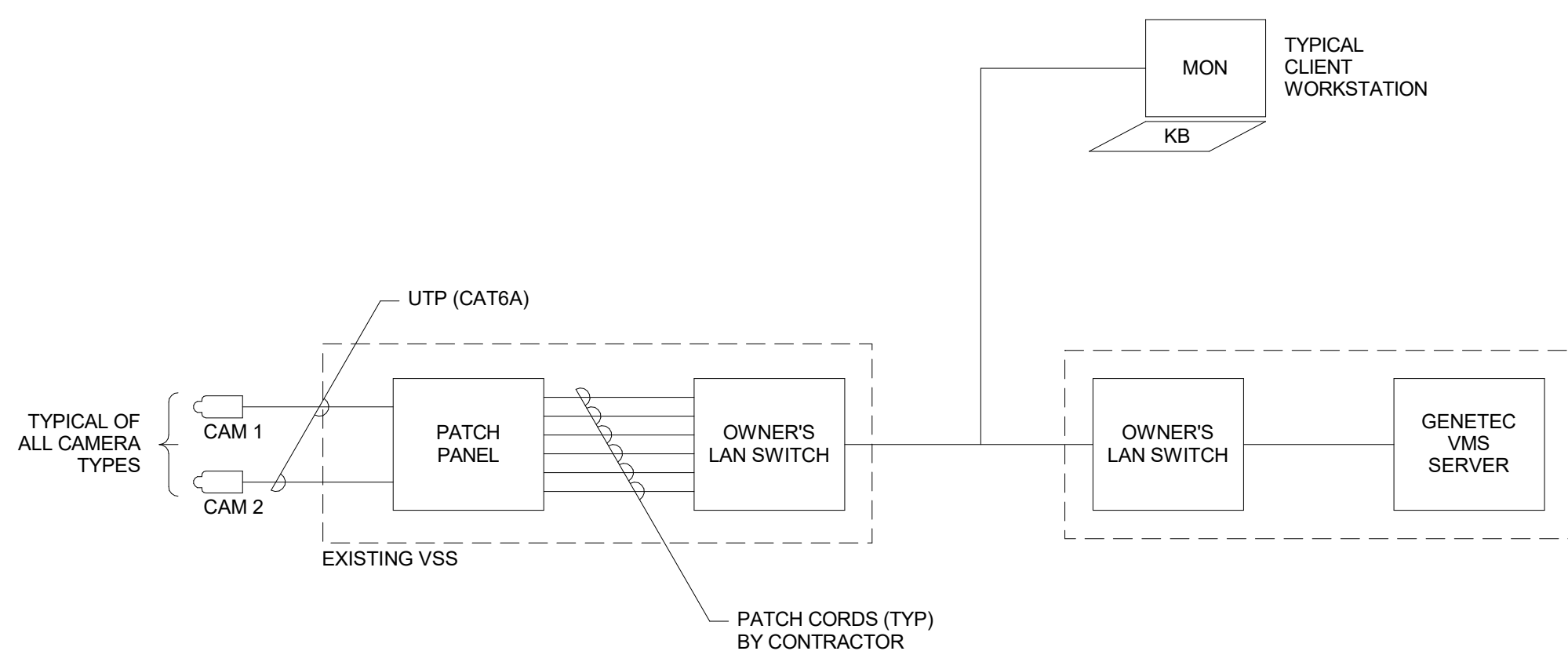
SHEET TITLE AND NUMBER:
EY102
 LEVEL 3 AUXILIARY PLAN

PROJECT: 7022021

THE LINE SHOWN ABOVE IS EXACTLY
 ONE INCH IN SIZE
 UNLESS OTHERWISE NOTED
 OTHERWISE, INCH SIZE

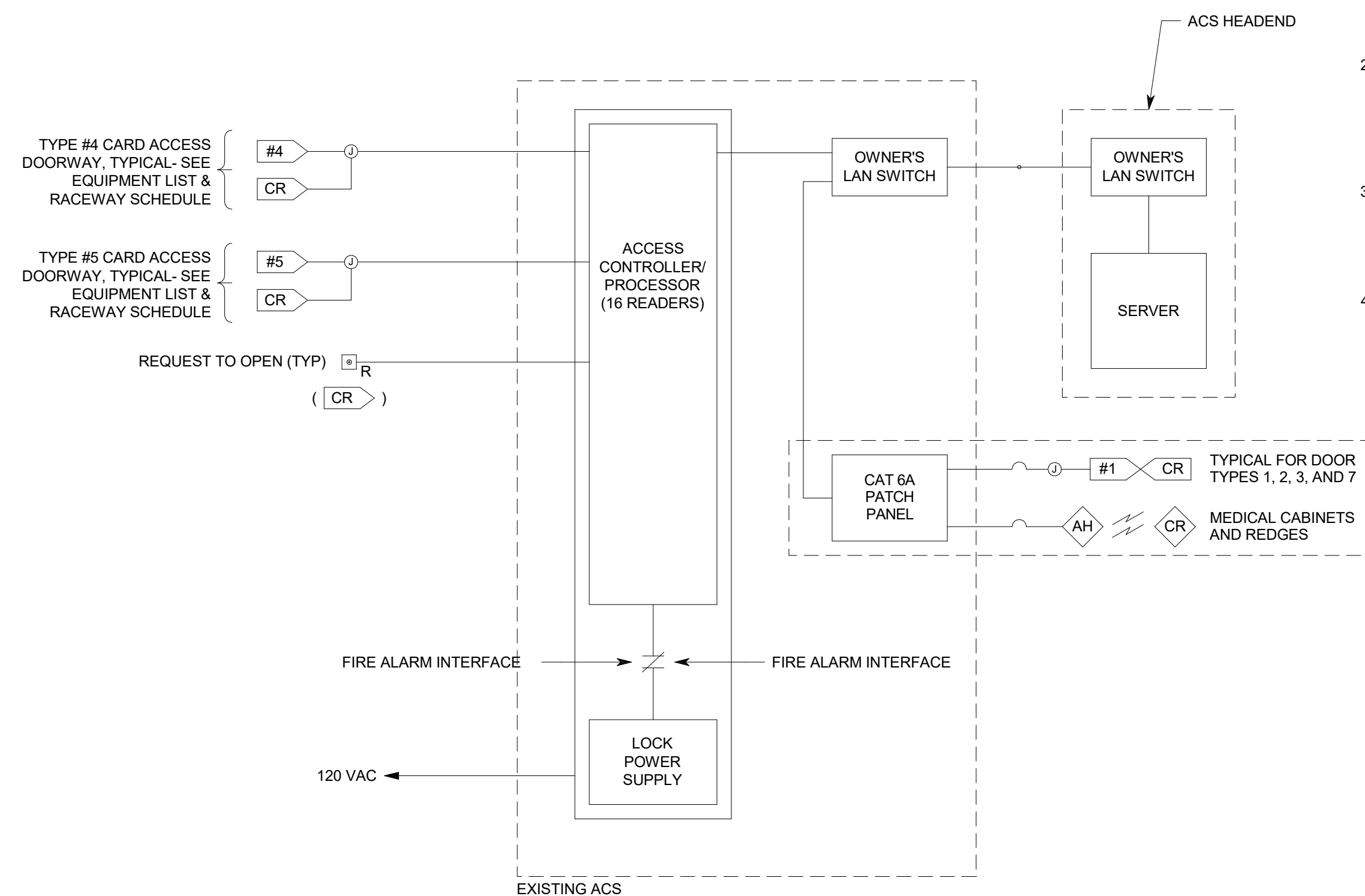


3 TYPICAL HILL-ROM NURSE CALL RISER DIAGRAM
 NO SCALE



1 VIDEO SURVEILLANCE (VSS) RISER DIAGRAM
 NO SCALE

ACS SYSTEM RISER



NOTES:

1. ACCESS CONTROL SYSTEM BASED UPON MULTIPLE CARD READERS PER ACCESS CONTROLLER/PROCESSOR. PROVIDE QUANTITY OF ISTAR PRO AND ISTAR ULTRA CONTROLLER'S PER ACS BASED ON IDENTIFIED ACCESS READER LOCATIONS SHOWN IN THE EY SHEET SERIES, PLUS 20%.
2. ACCESS CONTROLLER "ACS" INDICATED SHALL INCLUDE ANY ISOLATION MODULES, BUFFER MODULES, EXTERNAL POWER SUPPLIES, INPUT/OUTPUT MODULES, OR FORMAT CONVERTER MODULES (NOT SHOWN) REQUIRED TO SUPPORT CARD READER OR KEYPAD TYPES INDICATED, FOR COMPLETE AND FUNCTIONING CARD READER AND DOOR CONTROL.
3. PROVIDE SEPARATE WIRE PAIRS FOR REQUEST TO EXIT AND DOOR CONTACT INDICATOR, FROM ACCESS DOOR TO ACCESS CONTROLLER PANEL. SINGLE PAIR, FROM ACCESS DOOR TO CONTROLLER PANEL, FOR REQUEST TO EXIT AND DOOR CONTACT INDICATOR, NOT ACCEPTABLE.
4. REQUEST TO EXIT AND DOOR CONTACT INDICATOR CIRCUITS SHALL BE SUPERVISED FOR OPEN CIRCUIT OR SHORT CIRCUIT FAULTS BETWEEN THE DEVICE CONTACTS AND ACCESS CONTROLLER.

2 ACCESS CONTROL (ACS) RISER DIAGRAM
 NO SCALE

VSS CAMERA/ENCLOSURE ROUGH-IN SCHEDULE

DESCRIPTION	INCLUDES
INTERIOR CAMERA - FIXED DOME (CEILING MOUNTED)	* JUNCTION BOX ABOVE ACCESSIBLE CEILING WITH 1" CONDUIT TO VSS
INTERIOR CAMERA - FIXED DOME (WALL MOUNTED)	* JUNCTION BOX AT +90" ABOVE FINISHED FLOOR, WITH 1" CONDUIT BACK TO VSS
EXTERIOR CAMERA - FIXED DOME (WALL MOUNTED)	* JUNCTION BOX AT +120" ABOVE FINISHED FLOOR, WITH 1" CONDUIT BACK TO VSS

VSS CAMERA SCHEDULE

TYPE	INTERIOR (INT)/ EXTERIOR (EXT)	DESCRIPTION	AXIS MODEL #
1	INT	FIXED DOME, VARIFOCAL, CEILING MOUNT	P3375-V
2	INT	FIXED DOME, VARIFOCAL, WALL MOUNT	P3375-V
3	EXT	FIXED DOME, VARIFOCAL, WALL MOUNT	Q3515-LVE
4	INT/EXT	FIXED DOME, CEILING MOUNT (360°)	P3717-PLV
5	INT/EXT	FIXED DOME, CEILING MOUNT (180°)	P3807-PVE
6	INT	FIXED DOME, CEILING MOUNT DRUG DISPENSER	M3067-P0808-001
7	EXT	PARAPET MOUNT ARM, PAN TILT ZOOM	Q6075-E
8	INT	FIXED DOME, CEILING MOUNT DUAL SENSOR (360°)	P3715-PLVE

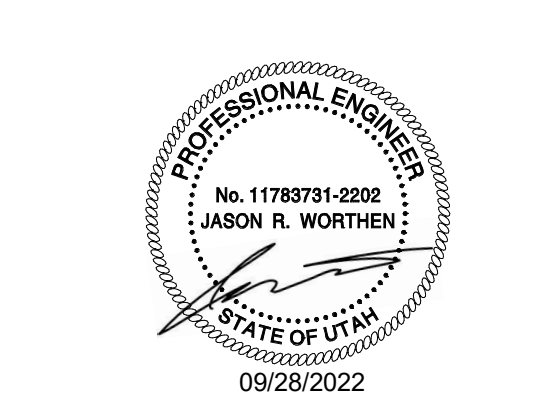
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DATE	DESCRIPTION



ORIG SUBMISSION: 09/28/22
 CURRENT:
 CONSTRUCTION DOCUMENTS
 SHEET TITLE AND NUMBER:
EY601
 AUXILIARY RISER DIAGRAMS

THE LINE SHOWN ABOVE IS EXACTLY
ONE INCH IN LENGTH
ON THIS DRAWING

NOTES

- PROVIDE RACEWAY AND EQUIPMENT AS INDICATED FOR CARD ACCESS DOOR TYPE INDICATED. REFER TO SECTION 281300 AND CARD ACCESS LOCK CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE CONCEALED .75" C TYPICAL FOR LINES SHOWN TO DEVICE BOXES ON PROTECTED SIDE AND UNPROTECTED SIDE ELEVATIONS.
- CONFIRM CORRECT CARD ACCESS DOOR RACEWAY, LOCK VOLTAGE, AND EXIT SWITCH CURRENT RATING (2 AMPS MIN.) WITH DIV. 8 FURNISHED CARD ACCESS DOOR HARDWARE PER DIV. 8 DOOR HARDWARE SPECIFICATIONS.
- LOCATE CARD READER BOX AS INDICATED ON FLOOR PLANS. RACEWAY AND BOXES BY DIV. 26. REFER TO 281300 FOR CARD ACCESS SYSTEM REQUIREMENTS.
- DOUBLE 4SQ J-BOX ON PROTECTED SIDE OF DOORWAY (SIDE OPPOSITE OF CARD READER) ABOVE ACCESSIBLE CEILING OR IN OTHER ACCESSIBLE LOCATION. PROVIDE COVER FOR J-BOX.
- ELECTRIC LOCKING HARDWARE (MAG LOCKS, ELECTRIC STRIKES, POWER TRANSFER HINGES, ETC.) BY DIV. 8. REVIEW DOOR HARDWARE FURNISHED AND VERIFY LOCK VOLTAGES AND OPERATIONAL FUNCTIONALITY OF LOCKS. CONTACT ENGINEER WITH QUESTIONS OR CONCERNS.

ABBREVIATIONS

1G	=	1-GANG OR SINGLE GANG
4SQ	=	FOUR SQUARE JUNCTION BOX
AO	=	AUTO OPENER
A/R	=	AS REQUIRED
ACC	=	ACCESSIBLE
ACS	=	ACCESS CONTROL SYSTEM CONTROLLER
ADA	=	ASSISTED DISABILITY OPENER
AED	=	ELECTRIC EXIT DEVICE/CR COMBO ON DOOR
AEL	=	ELECTRIC LOCK/CR COMBO ON DOOR
C	=	CONDUIT
CI	=	DOOR CONTACT INDICATOR SWITCH
CR	=	CARD READER
CR/MS	=	CARD READER/MAG STRIPE
DH	=	DOOR HARNESS
DBL	=	DOUBLE
DED	=	DELAYED EXIT DEVICE
DIR	=	DIRECTION
ED	=	EXIT DEVICE
EH	=	ELECTRIC HINGE
EL	=	ELECTRIC LOCKSET
ES	=	ELECTRIC STRIKE
EDL	=	ELECTRIC DEADLATCH
EED	=	ELECTRIFIED EXIT DEVICE
ELC	=	EMERGENCY LOCK CONTROL
EPT	=	ELECTRIC POWER TRANSFER
FA	=	FIRE ALARM SYSTEM
FH	=	FRAME HARNESS
HDWR	=	HARDWARE
IDS	=	INTRUSION DETECTION SYSTEM
KS	=	KEY SWITCH
LS	=	LOCK INDICATOR SWITCH IN HARDWARE
LX	=	PANIC HARDWARE LATCH POSITION SWITCH
LPS	=	LOCK POWER SUPPLY
MD	=	MOTION DETECTOR
ML	=	ELECTROMAGNETIC LOCK
OCC	=	OCCUPANCY
OFF	=	OBTAIN FROM PLANS
PB	=	PUSH BUTTON RELEASE
PH	=	PANIC HARDWARE
PP	=	PUSH PAD ACTUATOR
PS	=	POWER SUPPLY
PED	=	POE EXIT DEVICE
PEL	=	POE ELECTRIC LOCKSET
PWR	=	POWER
QTY	=	QUANTITY
RS	=	REMOTE OPEN SWITCH
REX	=	REQUEST TO EXIT SWITCH/FUNCTION
TLC	=	TIME/SYSTEM LOCK CONTROL
TYP	=	TYPICAL
W/	=	WITH

CARD ACCESS DOOR TYPE SCHEDULE

DOOR TYPE #	SYMBOL	DESCRIPTION	PROTECTED SIDE ELEVATION	UNPROTECTED SIDE ELEVATION	LOCK TYPE(S)	DIVISION OF WORK AND COMMENTS
TYPE 1		SINGLE DOOR, WITH AUTO OPENERS			ELECTRIC STRIKE	SECURITY CONTRACTOR PROVIDES: • FH HARDWARE CONTRACTOR PROVIDES: • ES, AO, PP LOCK CONTROLLED BY: • AO
TYPE 2		SINGLE DOOR, WITH CARD READER			ELECTRIC STRIKE	SECURITY CONTRACTOR PROVIDES: • CR, FH HARDWARE CONTRACTOR PROVIDES: • ES, LPS LOCK CONTROLLED BY: • CR
TYPE 3		DOUBLE DOOR, WITH AUTO OPENER & CARD READER			ELECTRIC STRIKE	SECURITY CONTRACTOR PROVIDES: • CR, FH, EPT HARDWARE CONTRACTOR PROVIDES: • DH, AO, PP, LPS LOCK CONTROLLED BY: • AO

SECURITY EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING *	ROUGH-IN	QTY	ACCEPTABLE TYPES
	CARD READER	40"	4SQ W/ 1G RING	OFF	SEE SECTION 281300
CR/KP	CARD READER OR KEYPAD CONTROLLED (EMT/AMBULANCE)	40"	4SQ W/ 1G RING	OFF	PROVIDE HID READER WITH HES 660 SERIES LOCKSET
CR/MS	CARD READER OR MAG STRIP CONTROLLED (PUBLIC ENTRY TO PATIENT FLOORS)	40"	4SQ W/ 1G RING	OFF	
CR/PP	CARD READER AND PIN PAD CONTROLLED (BEHAVIORAL HEALTH)	40"	4SQ W/ 1G RING	OFF	
CRF	CARD READER FOR FRIDGE AND/OR FREEZER	40"	4SQ W/ 1G RING	OFF	
#1	CARD ACCESS DOOR TYPE, TYPICAL. REFER TO CARD ACCESS DOOR TYPE SCHEDULE.	SEE SCHEDULE	SEE SCHEDULE	OFF	REFER TO CARD ACCESS DOOR TYPE SCHEDULE & SECTION 281300
CI	DOOR MONITOR - CONTACT INDICATOR SWITCH	SEE SCHEDULE	SEE SCHEDULE	OFF	SEE SECTION 281300
AH	APERIO HUB (IP)	CEILING	1G BOX	OFF	PROVIDE APERIO HUB MODEL AH-40-IN2-NNNN
CR	WIRELESS READER AND LOCKSET FOR MED CABINET	ON CABINET	PER MANUF.	OFF	PROVIDE HES K100 WIRELESS READER/LOCKSET
I	IP INTERCOM WALL STATION	54"	3-GANG VERTICAL BOX	OFF	PROVIDE AXIS A8004-VE NETWORK VIDEO DOOR STATION
T	VSS CAMERA/ENCLOSURE TYPE, TYPICAL. REFER TO VSS CAMERA/ENCLOSURE TYPE SCHEDULE.	SEE SCHEDULE	SEE SCHEDULE	OFF	SEE VSS CAMERA/ENCLOSURE TYPE SCHEDULE
P	DURESS BUTTON	UNDER COUNTER J-BOX - 18"	4SQ W/ 1G RING	OFF	SEE SECTION 281600
ACS	CARD ACCESS CONTROLLERS & PWR SUPPLIES	72"	4"x4" GUTTER & STUBS A/R	A/R	SEE SECTION 281300
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER "TVSS"	AS NOTED	A/R	A/R	
VSS	VIDEO SURVEILLANCE SYSTEM	RACK MOUNTED			COORDINATE WITH OWNER

* COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS BEFORE INSTALLATION.



INTERMOUNTAIN HEALTHCARE
INTERMOUNTAIN HEALTH CARE LAYTON
HOSPITAL - CT REMODEL
207 LAYTON PARKWAY
LAYTON, UT 84041

DATE	DESCRIPTION



ORIG SUBMISSION: 09/28/22
CURRENT: CONSTRUCTION DOCUMENTS
SHEET TITLE AND NUMBER:
EY602
SECURITY SCHEDULES