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ARCHITECT
 HKS ARCHITECTS, INC.
 90 SOUTH 400 WEST, #110
 SALT LAKE CITY, UTAH 84101

CON1-DISCIPLINE
 CON1-COMPANY
 CON1-ADDRESS1
 CON1-ADDRESS2

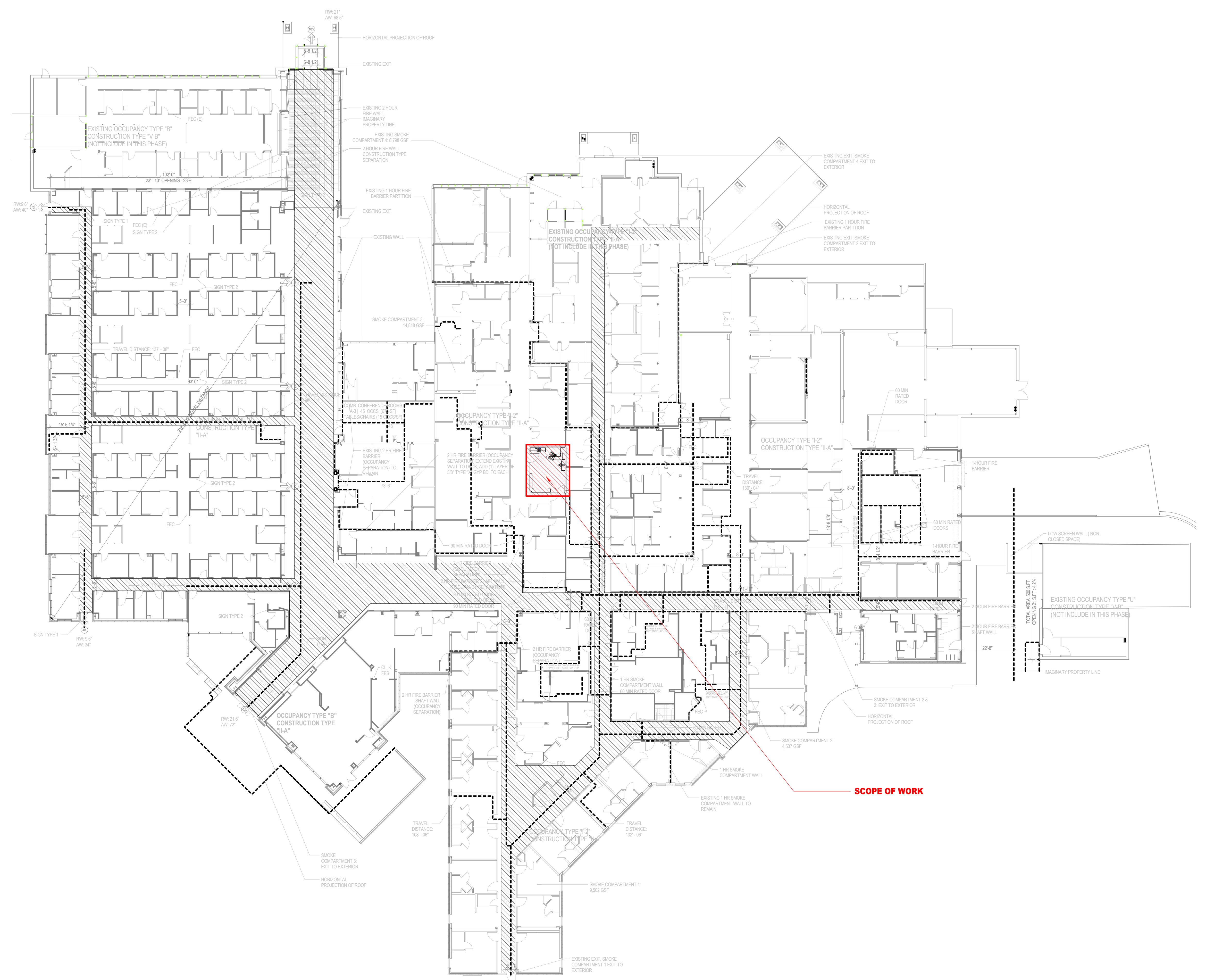
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HEBER FLUORO REPLACEMENT

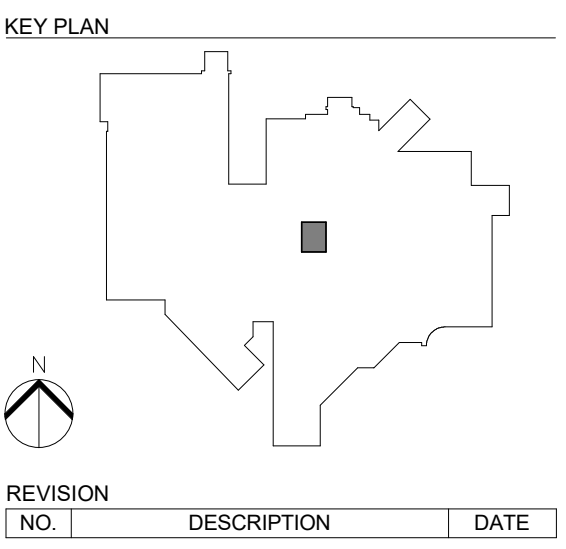
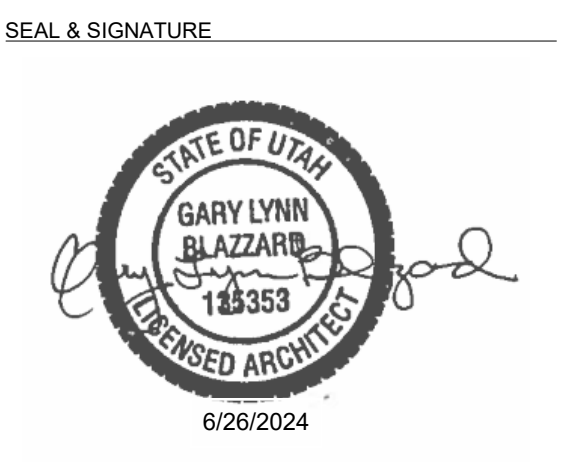
PROJECT ADDRESS: 1485 SOUTH HIGHWAY 40, HEBER CITY, UTAH



01 FLUOROSCOPY LIFE SAFETY PLAN
 3/64" = 1'-0"

LIFE SAFETY LEGEND	
ROOM NAME	NAME AND AREA
150 SF	
1 HR FIRE BARRIER	EXIT ENCLOSURE
1 HR SMOKE BARRIER	EXIT CORRIDOR
2 HR FIRE BARRIER	SUITE
2 HR SMOKE BARRIER	BUS. OCCUPANCY
SMOKE PARTITION (NON RATED)	ASSEMBLY
NON RATED WALL	STORAGE
SMOKE COMPARTMENT	
HORIZONTAL EXIT WALL	
OCCUPANCY SEPARATION WALL	
FDC	FIRE DEPARTMENT CONNECTION
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET
SHC	STANDPIPE HOSE CONNECTION CABINET
EKC	EMERGENCY KEY CABINET
EXIT SYMBOL	EXIT SIGN - HATCH
	INDICATES EXIT
	TEXT & ARROW
	INDICATES DIRECTION
	TRAVEL DISTANCE FROM THE MOST REMOTE POINT TO THE CLOSEST EXIT
	TRAVEL DISTANCE WITHIN A SMOKE ZONE TO AN ADJACENT SMOKE ZONE
EXIT TAG	AREA TAG
NUMBER	OFFICE
EXIT TYPE	NAME
CALC WIDTH	500 SF
EXIT FACTOR	.100 SF/OCC
OCC CAPACITY	5 OCCS
	AREA
	FACTOR
	OCC LOAD

DELETE IF NOT USED	
	EDUCATION
	GARAGE
	RESIDENTIAL
	RETAIL
	3 HR FIRE BARRIER
	4 HR FIRE BARRIER



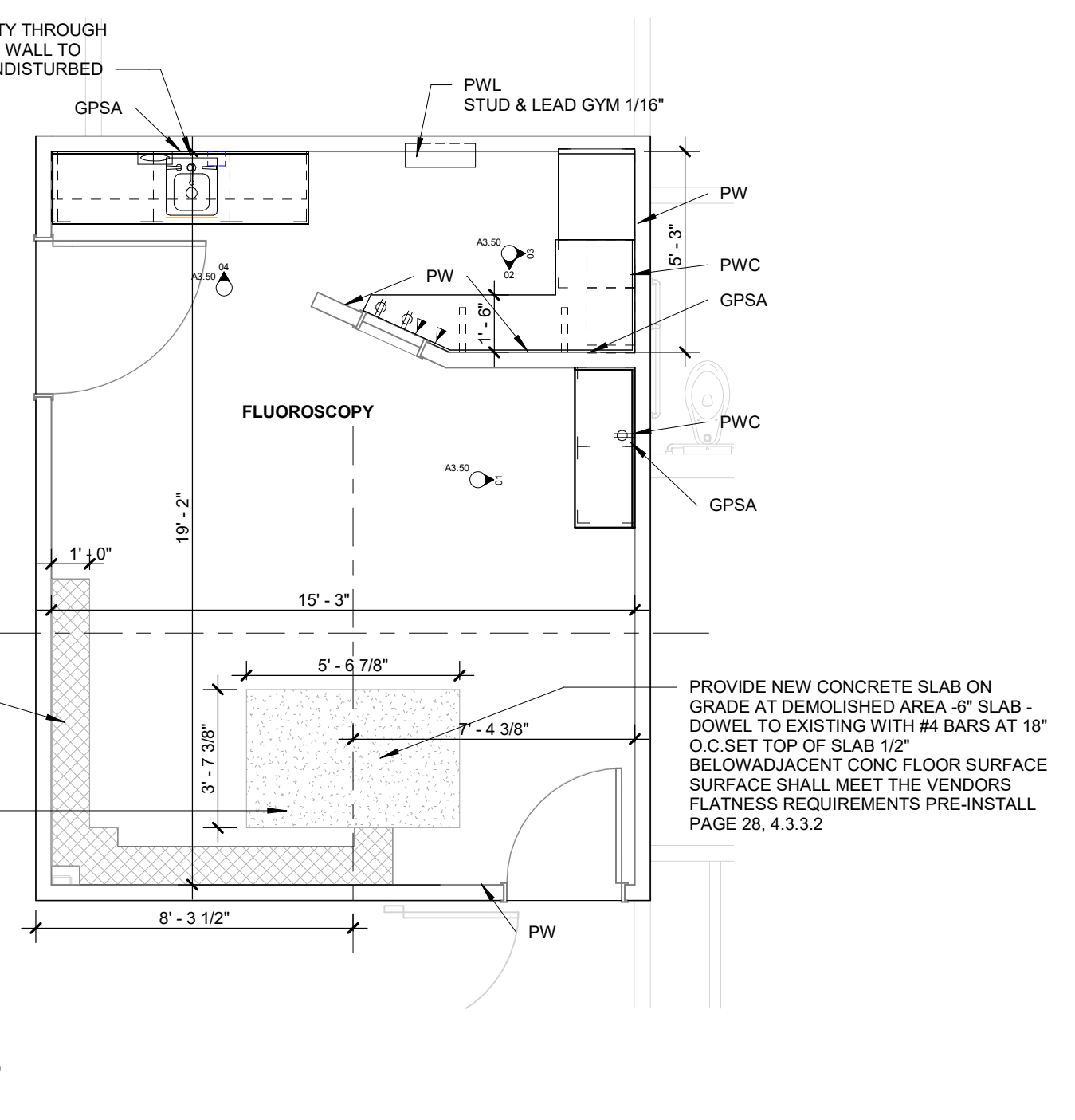
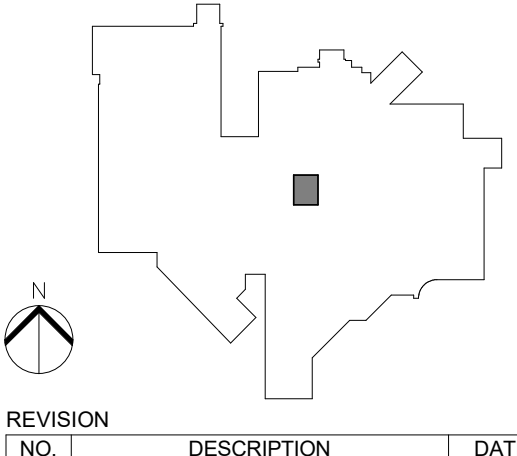
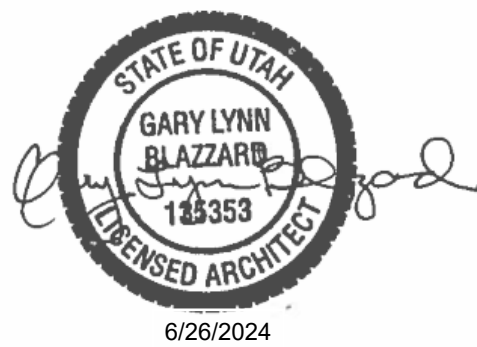
REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26651.000

DATE
06/20/2024

ISSUE
CONSTRUCTION DOCUMENTS

SHEET TITLE
LIFE SAFETY PLAN - CAMPUS



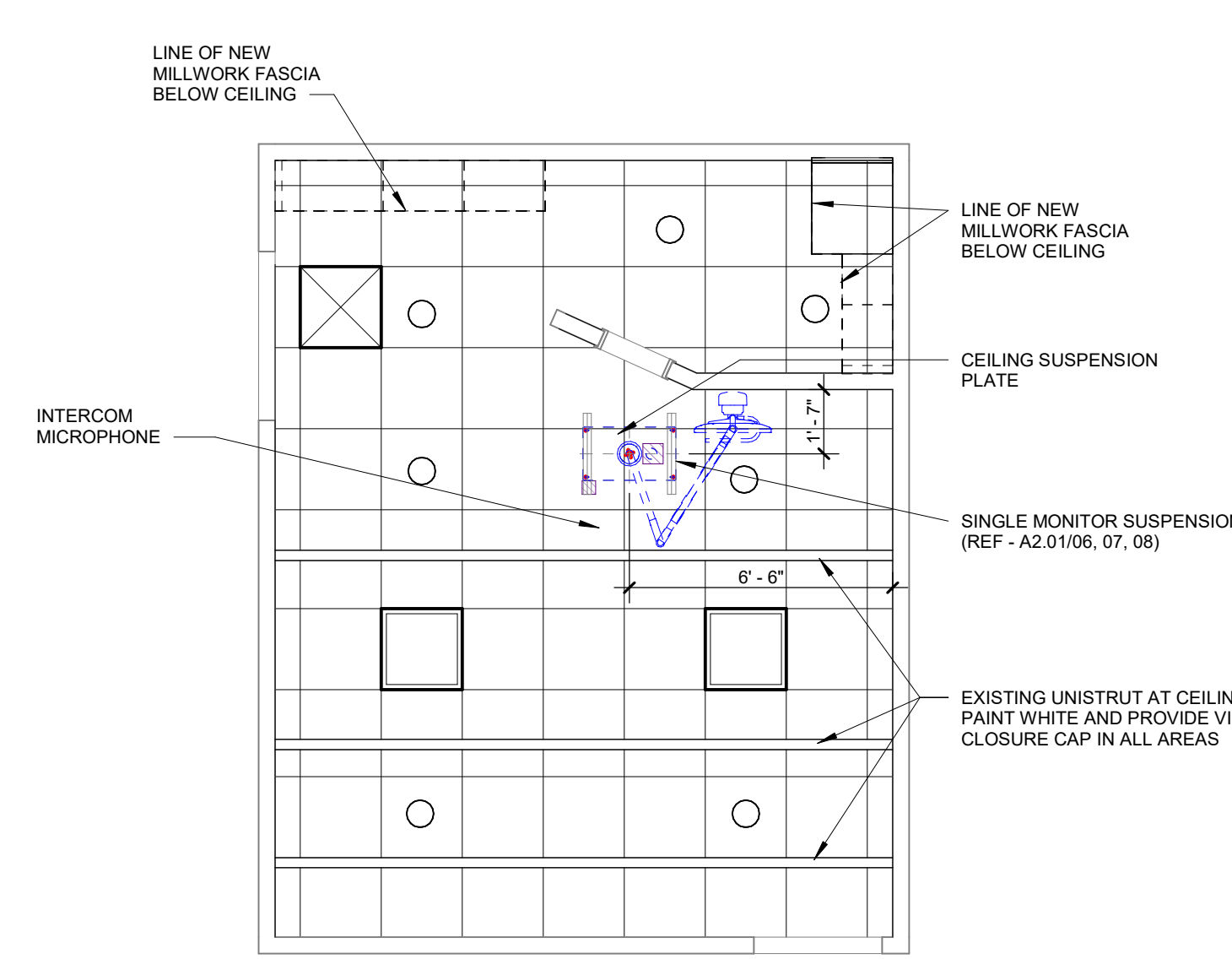
01 FLUOROSCOPY REMODEL PLAN
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES / KEYED NOTES

- DIMENSIONS INDICATED ARE TO FINISHED FACE OF GYPSUM BOARD
 - PATCH WALLS WHERE DISTURBED BY REMOVAL OF SHEET VINYL BASE, CABINET REMOVAL, UTILITY WORK, ETC.
 - INDICATES INTERIOR ELEVATIONS IN THIS ROOM. SEE SHEET A3.50N
- PW** - PATCH EXISTING GYP BD WALL AS NECESSARY AFTER INSTALLATION OF UTILITIES AND/OR WHERE EXISTING WALLS ARE REMOVED OR MODIFIED. NOT ALL LOCATIONS MAY BE INDICATED. COORDINATE WITH DEMOLITION AND UTILITY DRAWINGS. NOTE EXTENT OF PATCH MAY BE NOTED ON DRAWINGS
- PWL** - PATCH EXISTING LEAD WALL AS NECESSARY AFTER INSTALLATION OF UTILITIES AND/OR WHERE EXISTING WALLS ARE REMOVED OR MODIFIED. NOT ALL LOCATIONS MAY BE INDICATED. COORDINATE WITH DEMOLITION AND UTILITY DRAWINGS. NOTE EXTENT OF PATCH MAY BE NOTED ON DRAWINGS
- PWC** - PATCH EXISTING GYP BD WALL BEHIND CABINET AS NECESSARY
- EXSW** - EXISTING METAL STUD WALL SHALL BE PATCHED AND REPAIRED LEAD SHIELDING REPAIRED AFTER REMOVAL OF EQUIPMENT (SEE ON PICTURE A2.01F.08)
- WIEP** - WALL INFILL WHERE ELECTRICAL PANEL IS REMOVED, AS NOTED IN A2.01F.07, PROVIDE WALL FRAMING AND 1/16" LEAD SHIELDED GYP BD AT INFILL. LAP SHIELDING APPROPRIATELY

FINISH PLAN NOTES / KEYED NOTES

- CONTRACTOR SHALL REMOVE ACCESSORIES, ETC. BEFORE PAINTING, AND REPLACE ACCESSORIES, ETC. AFTER PAINTING
- EXTENT OF FINISHED VS NEW FLOORING AT EXISTING OPENINGS: TRANSITION OCCURS AT EXISTING FLOORING EXTENT

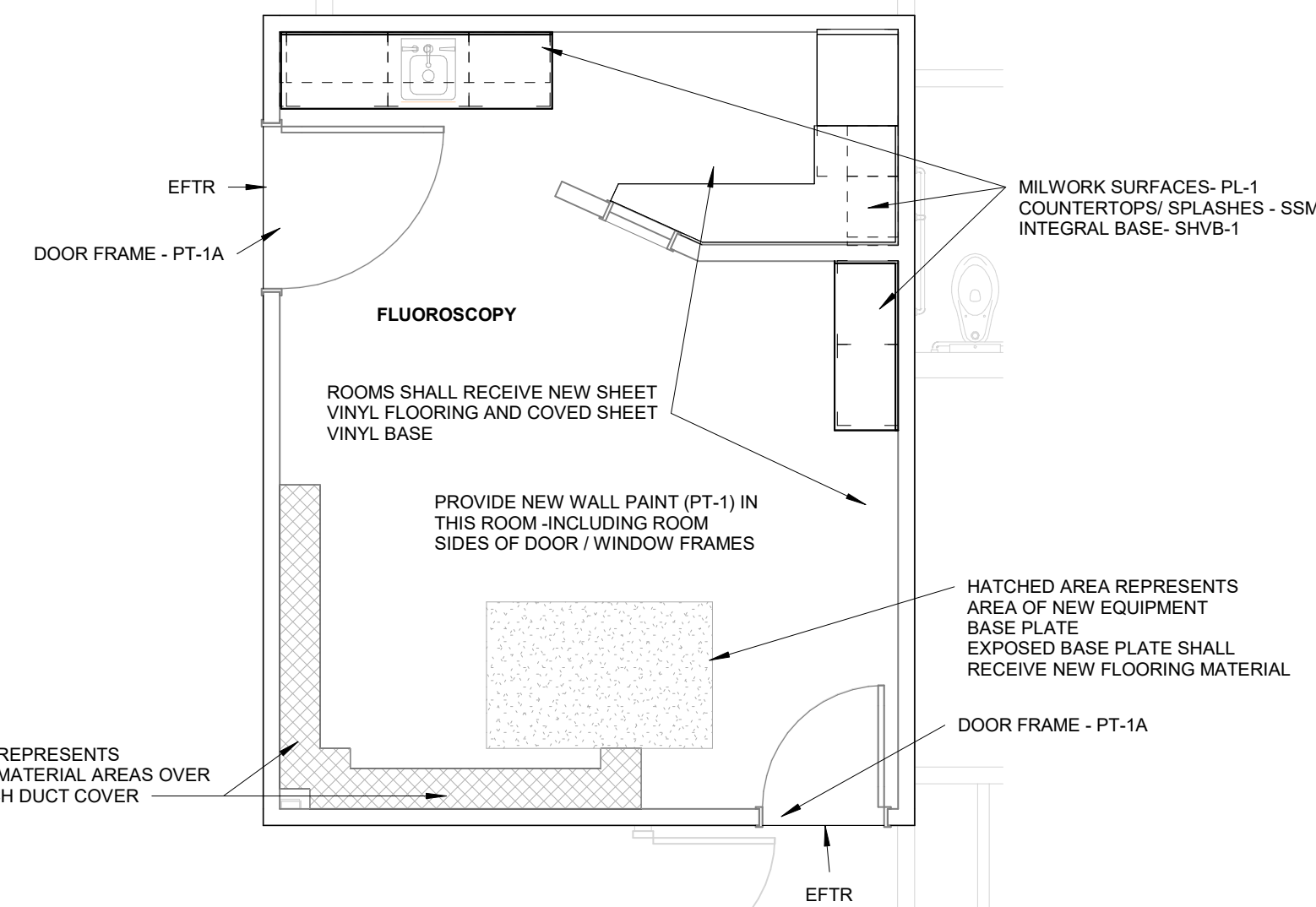


03 FLUOROSCOPY REMODEL RCP
1/4" = 1'-0"

CEILING SYMBOL LEGEND	
	GYPSUM BOARD CEILING
	GYPSUM BOARD CEILING
	SUPPLY AIR
	RETURN AIR
	EXHAUST AIR
	ACCESS PANEL
	FLUORESCENT LIGHT
	SUSPENDED LIGHT
	SUSPENDED FLUORESCENT LIGHT
	WALL MOUNTED FIXTURE
	CHANDELIER
	CONTROL JOINTS
	EXIT SIGN - HATCH INDICATES EXIT TEXT & ARROW INDICATES DIRECTION
	SMOKE DETECTOR
	FIRE ALARM / STROBE
	SPEAKER
	SPRINKLER
	PROJECTOR
	WALL WASHER
	PENDANT TYPE LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	DOWNLIGHT
	STRIP LIGHT

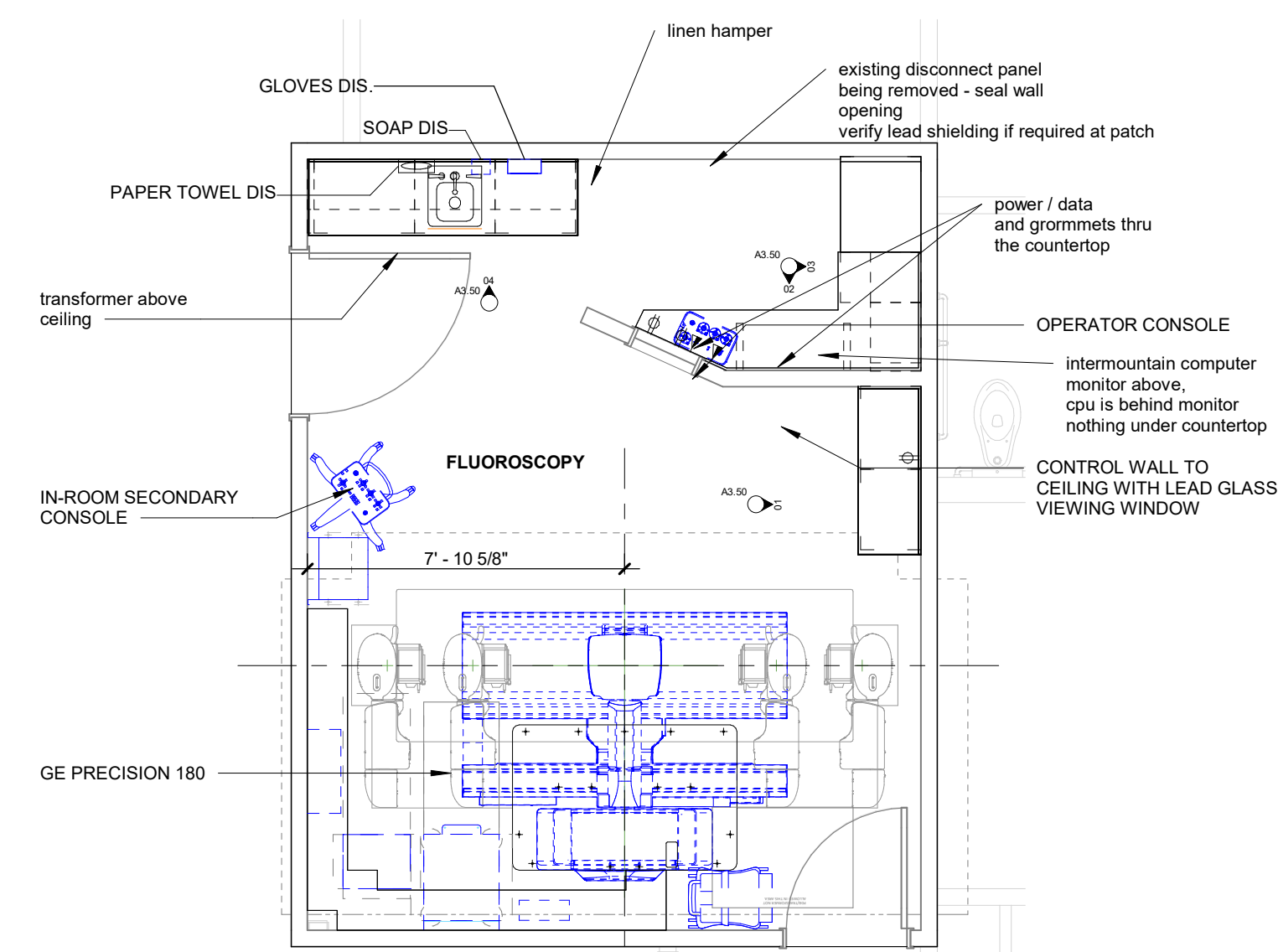
REFLECTED CEILING NOTES / KEYED NOTES

- CEILING HEIGHTS ARE AS INDICATED BY #.#.#'
 - LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, STROBES AND MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, UNLESS NOTED OTHERWISE.
- EXIST** - INDICATES EXISTING CEILING MATERIALS TO REMAIN
- CJ** - CONTROL JOINT LOCATIONS IN GYPSUM BOARD ASSEMBLIES IN WALLS THAT INTERSECT BULKHEADS
- WIEP** - DESIGNATES LOCATIONS WHERE THE WALL OR TALL CABINETS MILLWORK FASCIA EXTENDS TO CEILING (NOTED FOR REFERENCE / COORDINATION)
- LLU** - LIGHTS LINE UP
- CLS** - CENTER LIGHT IN CEILING SPACE
- CSF** - CEILING START POINT



04 FLUOROSCOPY REMODEL FINISH PLAN
1/4" = 1'-0"

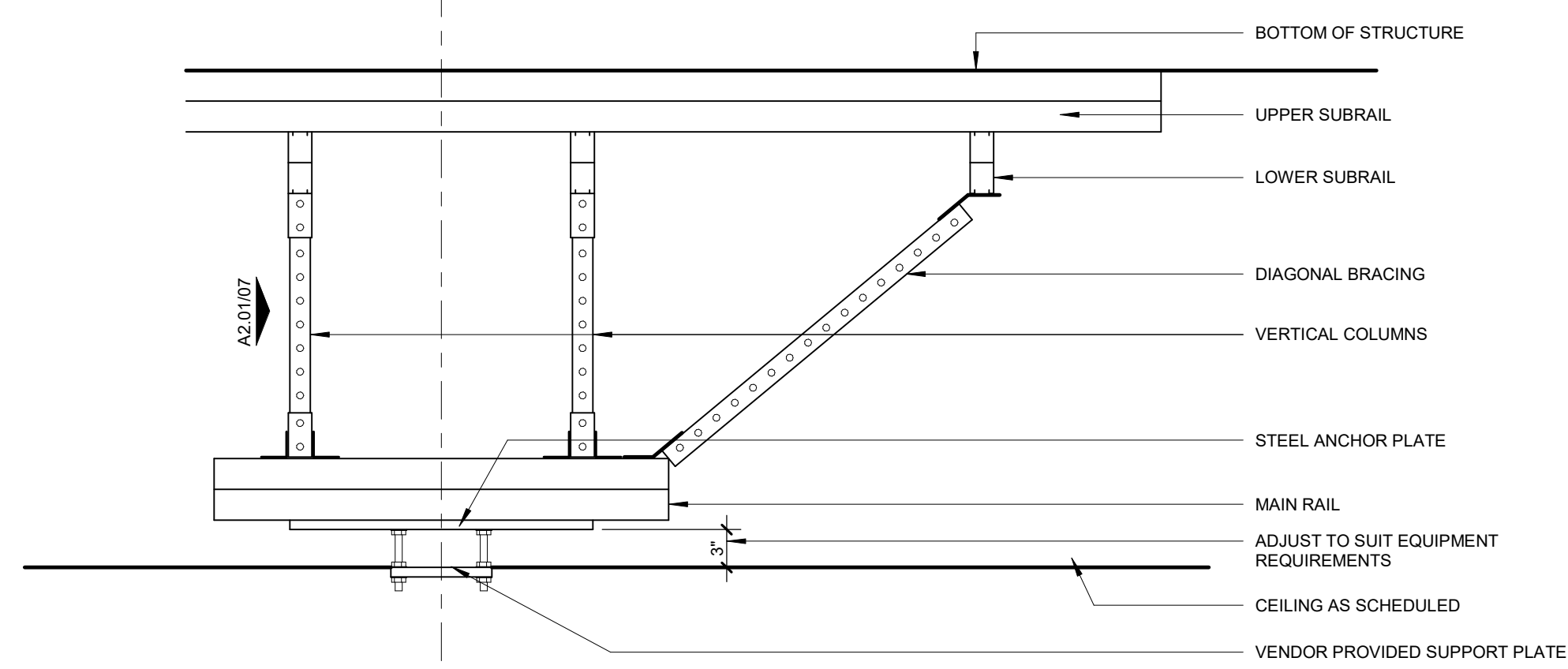
FINISH MATERIALS SCHEDULE			
FINISH CODE	MANUFACTURER	STYLE/COLOR	NOTES
ACT-1	USG	STYLE: ECLIPSE, 24"X24", WHITE, STRAIGHT EDGE, 15X16" HEAVY DUTY GRID SYSTEM, WHITE	
SHV-1	MANNINGTON	STYLE: - BIOSPEC MD, TOASTED SESAME 15333	TYPICAL SHEET VINYL FLOORING
PT-1	SHERWIN WILLIAMS	STYLE/COLOR: BISCUIT 6112, EGG SHELL	TYPICAL PAINT FOR WALLS
PL-1	PIONITE	STYLE/COLOR: PIONITE WW011, KINGSKEY, RUN GRAIN VERTICAL	TYPICAL PLASTIC LAMINATE VERTICAL SURFACES
SSM-1	LG HAUSYS	STYLE: HI-MACS, PORTLAND	TYPICAL SOLID SURFACE COUNTERTOPS / SPLASHES
PT-2	SHERWIN WILLIAMS	STYLE/COLOR: SHERWIN WILLIAMS, MATCH EXISTING DARKER BROWN COLOR	ACCENT PAINT, WHERE INDICATED
SHVB-1	MANNINGTON	STYLE: - BIOSPEC MD, TOASTED SESAME 15333	INTEGRAL BASE AT SHV-1
PT-1A	SHERWIN WILLIAMS	STYLE / COLOR: SW WEATHER SHINGLE	DOOR FRAMES, WINDOW FRAMES



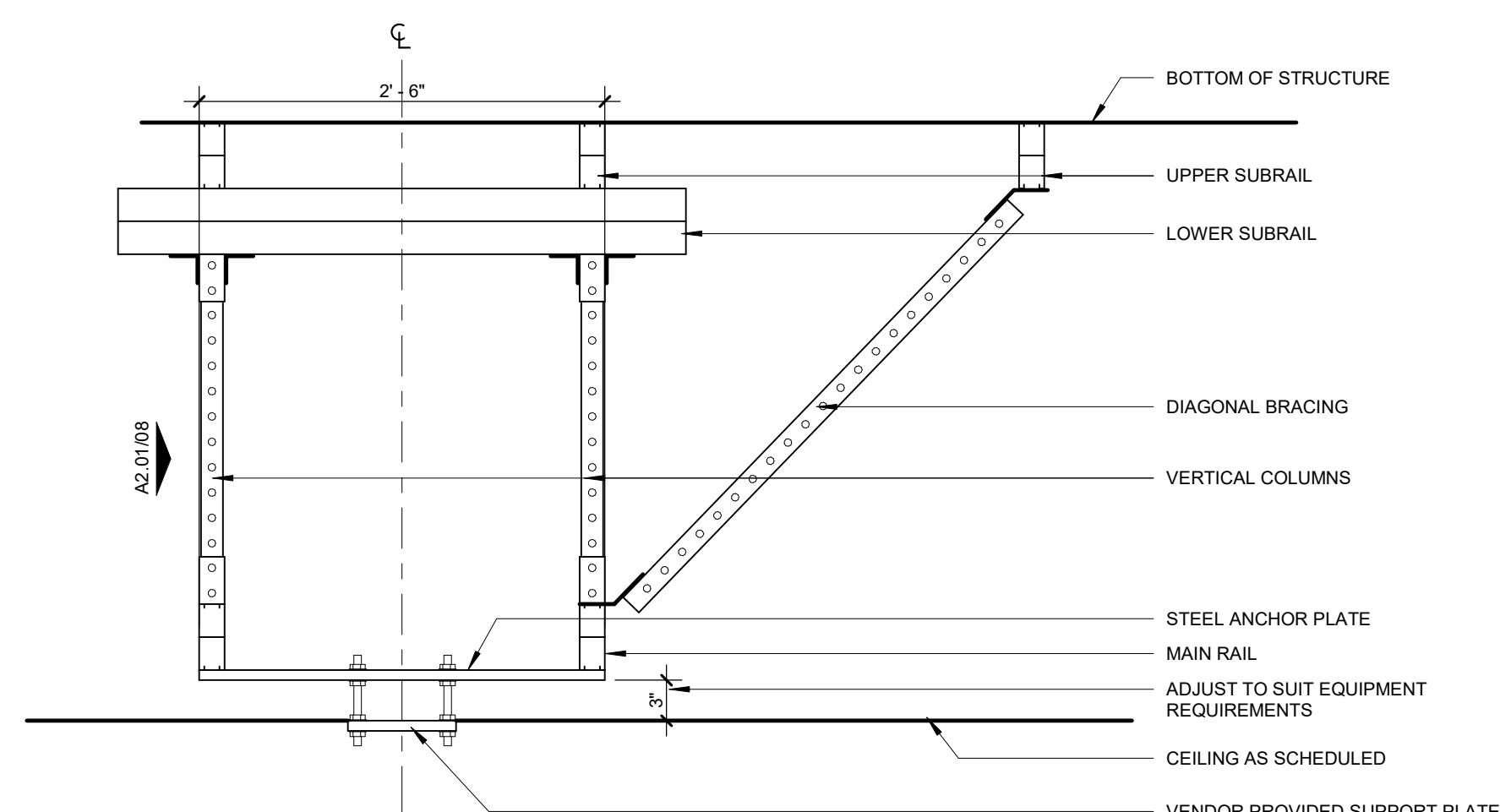
05 FLUOROSCOPY REMODEL EQUIP PLAN
1/4" = 1'-0"

EQUIPMENT GENERAL NOTES

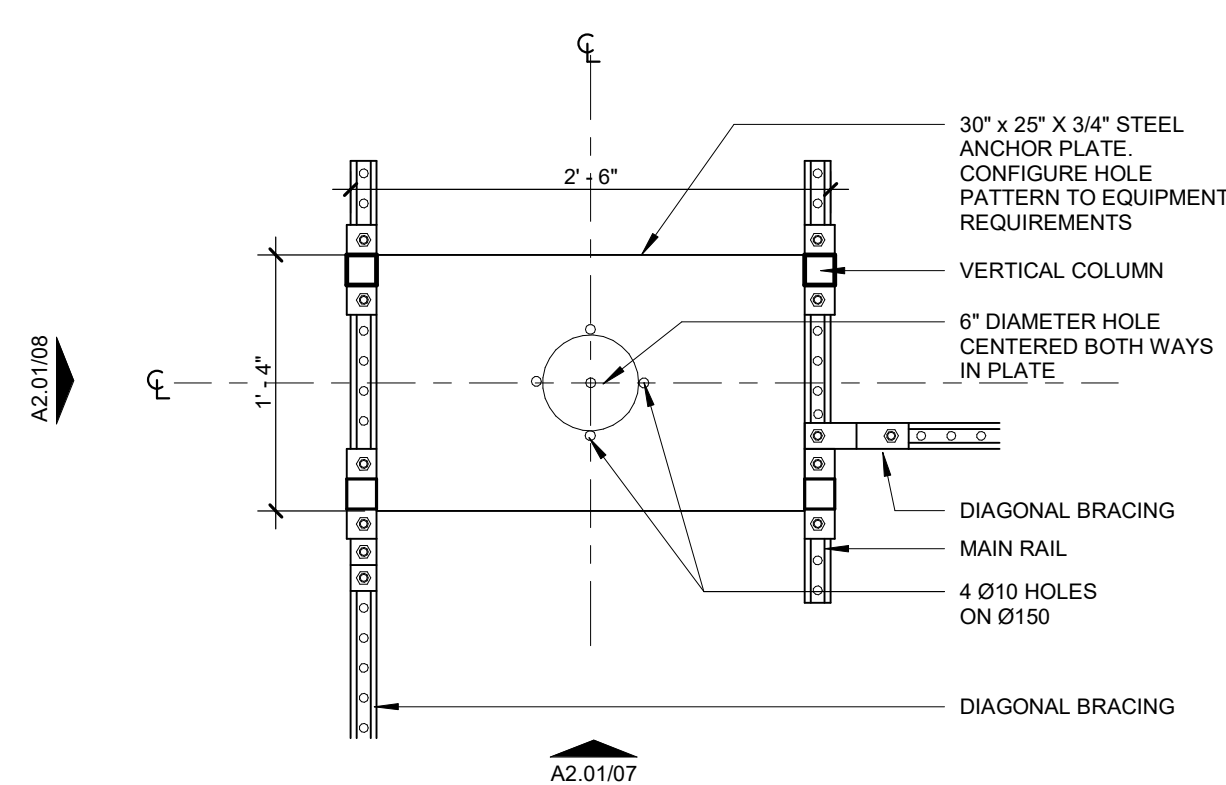
- REFER TO EQUIPMENT LIST FOR EQUIPMENT THAT MAY OCCUR AT EQUIPMENT AND SUPPLY ALCOVES
- IT EQUIPMENT (IE PRINTERS, COPIERS) ARE OFFICE
- FURNISHINGS ARE INDICATED ON THESE SHEETS FOR SPACIAL REFERENCE IN RELATION TO EQUIPMENT. REFER TO FURNITURE PLANS FOR SPECIFIC FURNITURE LAYOUTS INFORMATION
- ROOMS WITH THE NOTE TO "REF. #N#\" SHALL HAVE THE SAME EQUIPMENT AS THE ROOM REFERENCED
- REFER TO SHEET A3.21 - 3.23 ENLARGED TOILET ROOMS FOR EQUIPMENT ITEMS IN THOSE ROOMS
- SEE INT LOCATIONS INDICATE AREAS WHICH MAY NOT SHOW ALL OF THE EQUIPMENT OR ACCESSORY ITEMS IN THIS AREA. REFER TO INTERIOR ELEVATIONS FOR THOSE ITEMS
- SEE LOCATIONS ARE ELECTRICAL FLOOR BOXES, SHOWN FOR COORDINATION WITH FURNISHINGS. BOXES ARE DIMENSIONED ON THE FLOOR PLANS. SEE ELECTRICAL FOR BOX TYPE



08 CEILING MONITOR SUPPORT- SIDE VIEW
1" = 1'-0"



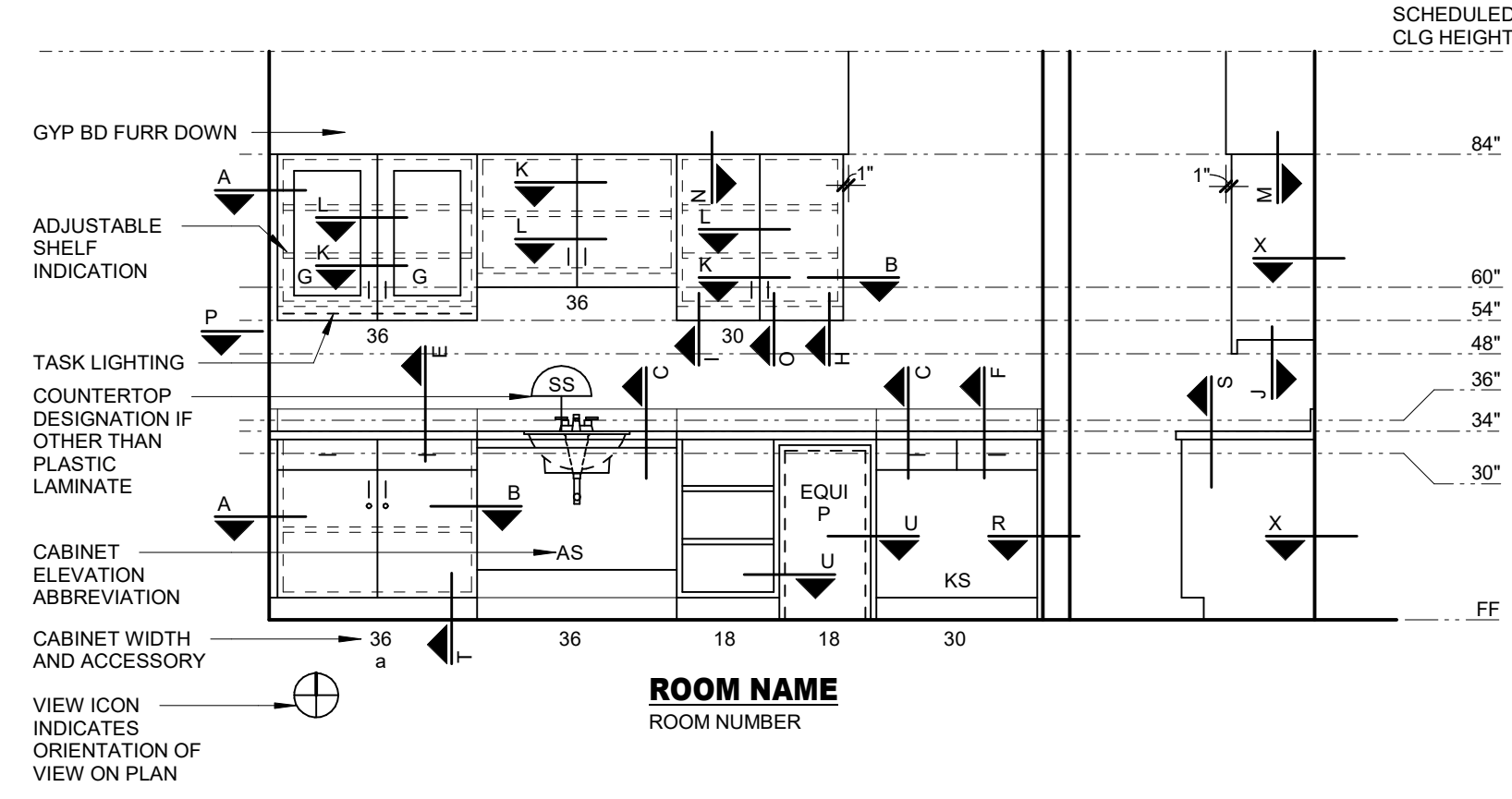
07 CEILING MONITOR SUPPORT- FRONT VIEW
1" = 1'-0"



06 CEILING MONITOR SUPPORT- PLAN
1" = 1'-0"

CABINET LEGEND

CABINET ELEVATION LEGEND



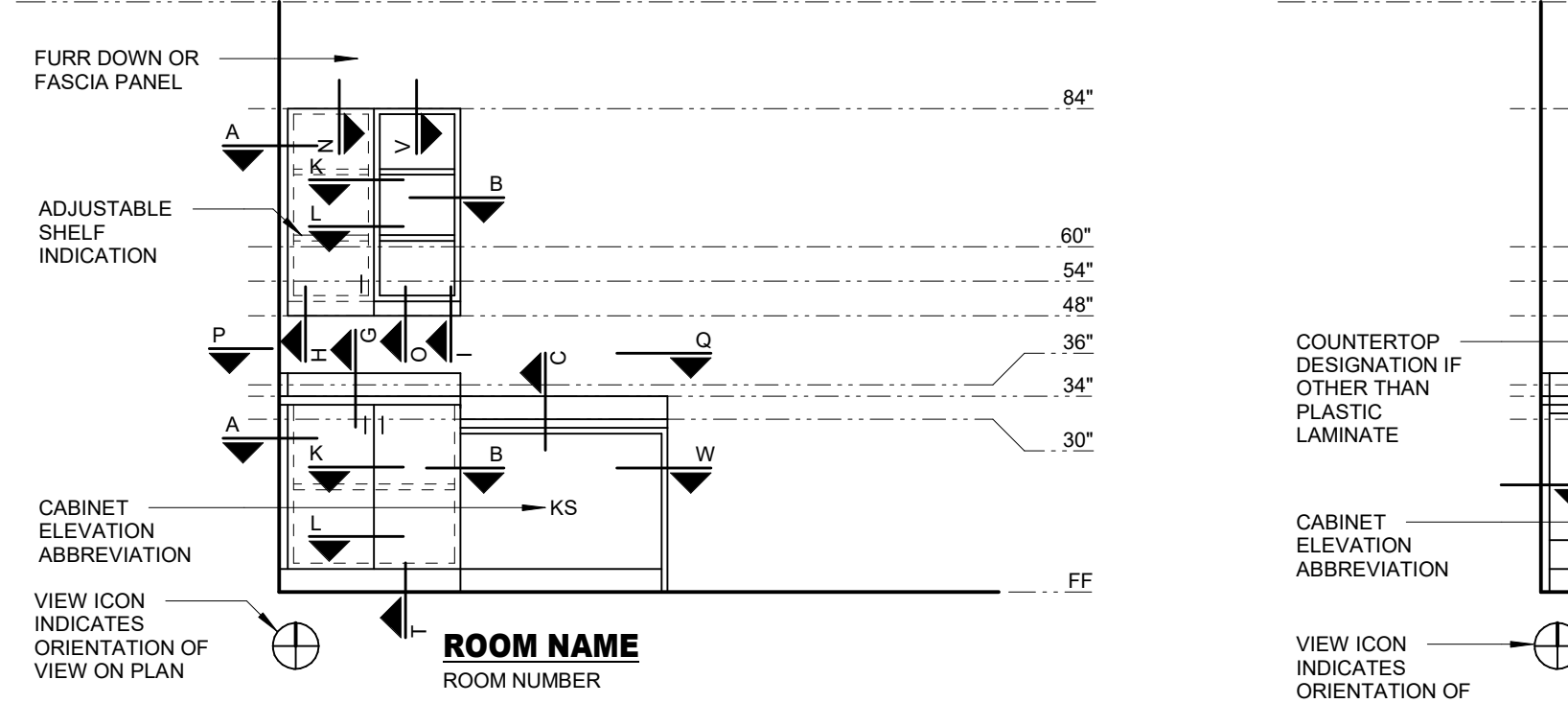
ACCESSORY LEGEND (LOWER CASE LETTERS ONLY)

- a - DRAWER / CABINET LOCK
- b - WASTE CHUTE - 6" DIA HOLE IN COUNTERTOP
- c - SLIDING WRITING SHELF
- d - GROMMET
- e - PLUM CLAD PANEL INSERT TO MATCH CABINET DOOR / DRAWERS
- f - COUNTERTOP SUPPORT BRACE - SEE CABINET DETAIL 'Y'

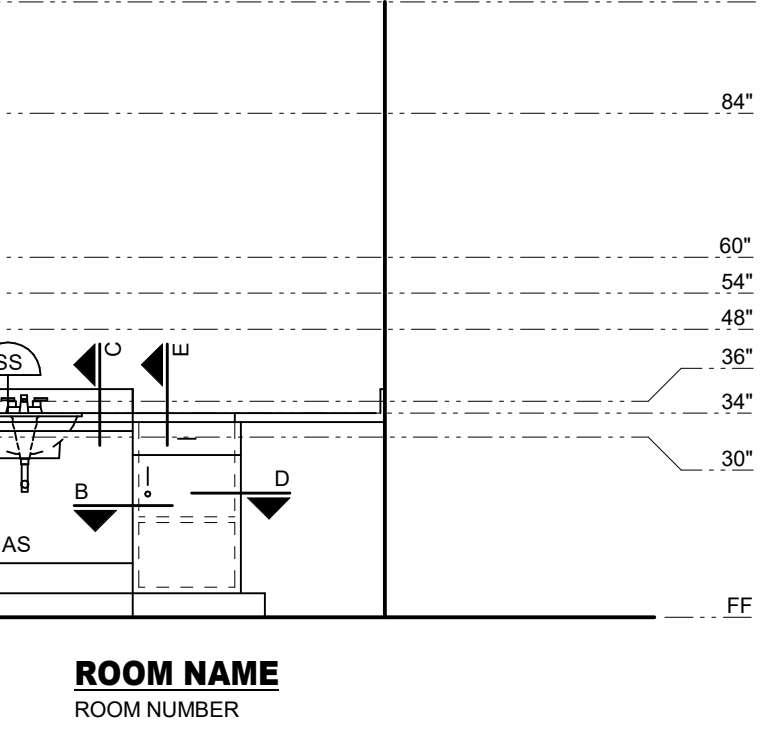
ELEVATION ABBREVIATION LEGEND

- AS - ACCESSIBLE SINK
- F - FILE DRAWER
- FP - FIXED SHELF
- FP - FILLER PANEL
- KB - KEYBOARD DRAWER
- KS - KNEE SPACE
- G - GLASS FRONT
- TL - TASK LIGHTING

CABINET ELEVATION LEGEND



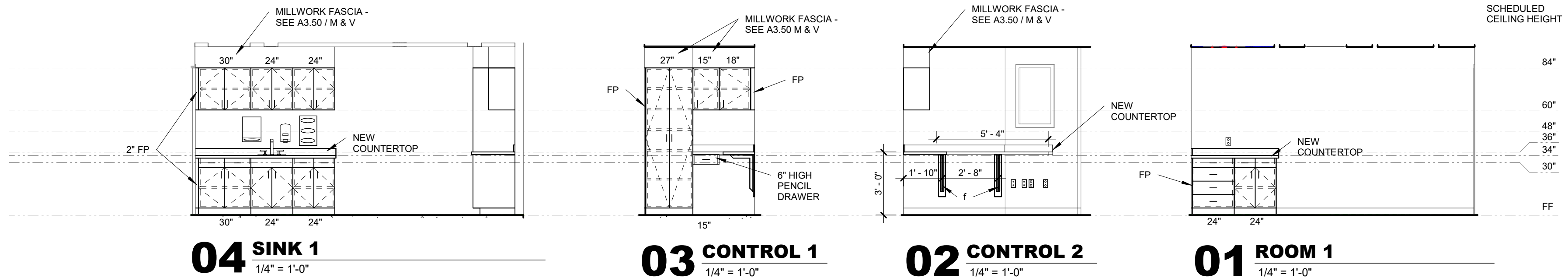
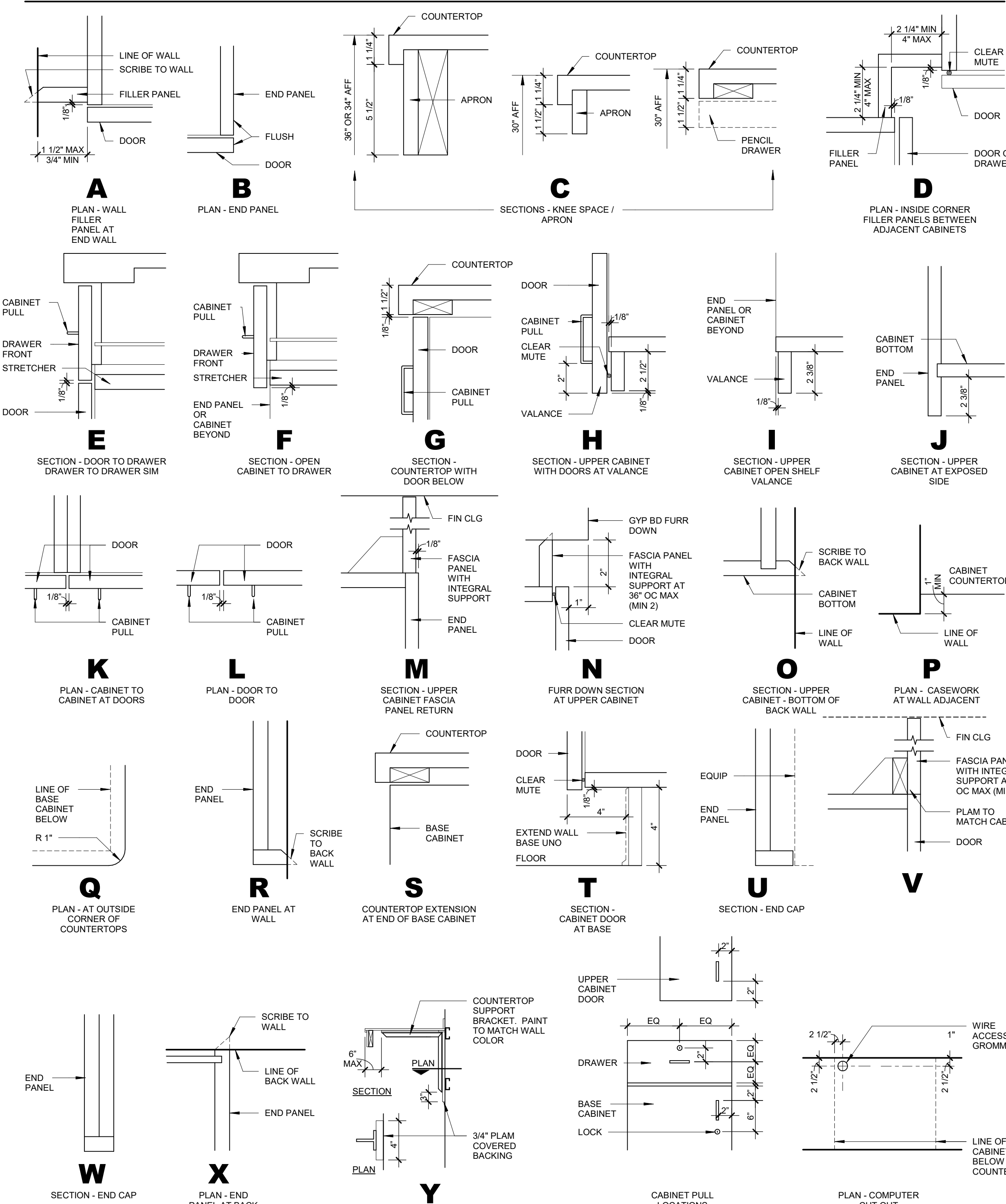
CABINET ELEVATION LEGEND



CABINET GENERAL NOTES

1. CABINET WIDTHS TO BE BASED ON MODULE INCREMENTS OF 3" UNO.
2. PROVIDE FILLER PANELS TO FINISH OUT TO SCRIBE CABINETS TO WALL.
3. PROVIDE FILLER PANELS AND TRIM WHERE EQUIPMENT IS LOCATED WITHIN CABINETS.
4. PROVIDE FINISHED END PANELS END RETURNS AT OPEN ENDED CABINETS, KNEE SPACES, AND ACCESSIBLE SINKS.
5. PROVIDE 1/2" THICK FINISHED END PANEL AT FREE STANDING END OF ACCESSIBLE SINKS AND KNEE SPACES.
6. WHEN FILLER PANELS ARE REQUIRED AT BOTH ENDS OF CASEWORK TERMINATION, BOTH FILLER PANELS SHALL BE EQUAL WIDTH.
7. PROVIDE WALL BRACKET SUPPORTS AT 36" OC MAX TO SUPPORT COUNTERTOP AT CONTINUOUS KNEE SPACE.
8. PROVIDE END SPLASH WHEN COUNTERTOP IS ADJACENT TO WALL AT SIDES.
9. PROVIDE HOLES FOR GROMMETS IN COUNTERTOPS AND AT THE FOLLOWING LOCATIONS:
 - EACH WIRE ACCESS HOLE WITH GROMMET AT KNEE SPACE.
 - WIRE ACCESS HOLES WITH GROMMETS AS INDICATED.
10. PROVIDE ADJUSTABLE SHELVES IN CABINETS AT THE FOLLOWING LOCATIONS UNO ON ELEVATIONS:
 - BASE CABINET - 1 SHELF
 - FULL HEIGHT CABINET - 5 SHELVES, 1 FIXED
 - WALL CABINET - 1 SHELF AT 24" HIGH, 2 SHELVES AT TALLER CABINETS
 - NOTE: ALL SHELVES TO BE 1" THICK
11. GLASS FRONTS TO BE 1/4" THICK CLEAR TEMPERED GLASS UNO.
12. PROVIDE AN APRON AT ALL KNEE SPACES 30" OR HIGHER UNO.

ARCHITECTURAL CABINET TYPICAL DETAILS



DEMOLITION LEGEND

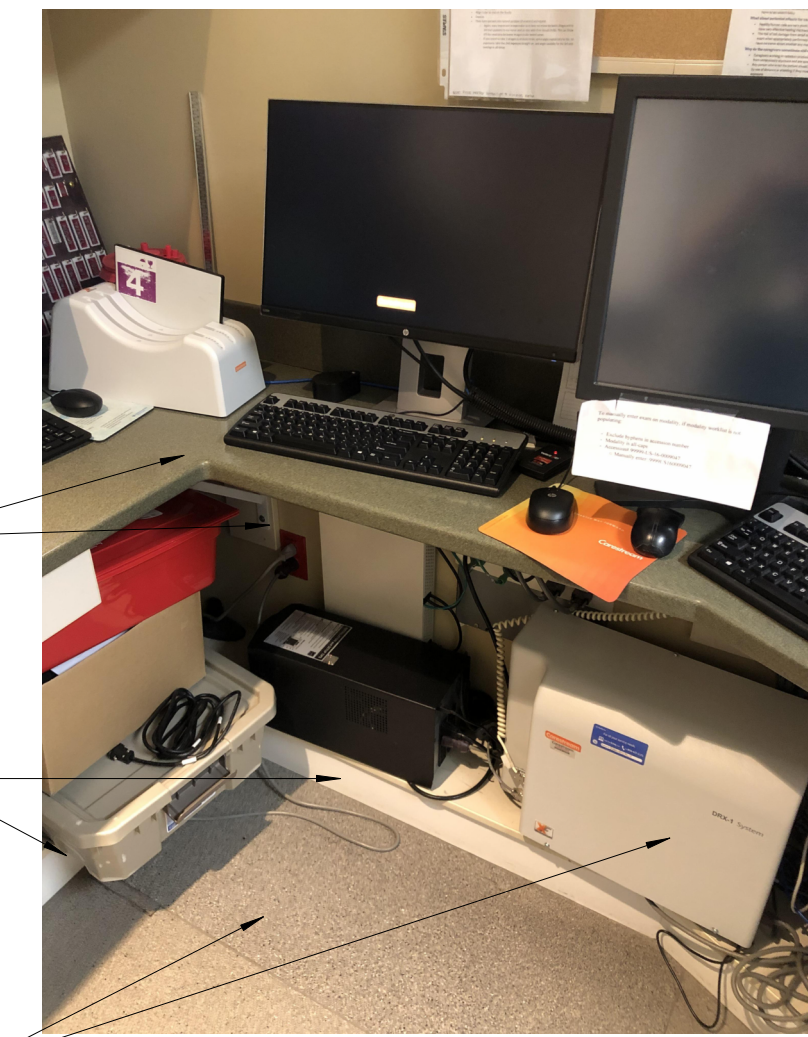
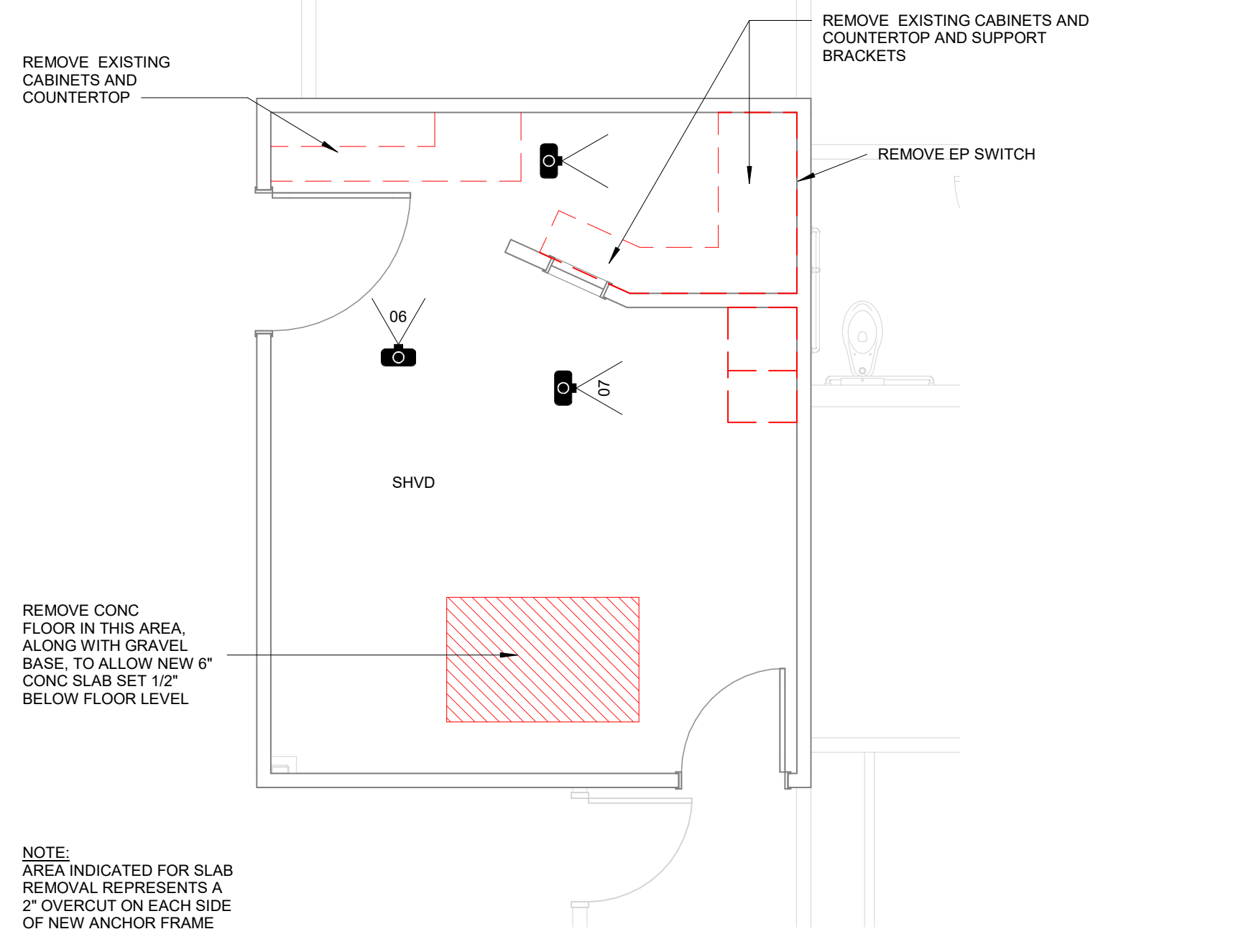
- INDICATES WALLS TO BE REMOVED (WALLS EXTEND TO ABOVE CEILING TYP)
- MILLWORK, DOORS, ETC. TO BE REMOVED, TYP SEE DEMOLITION NOTES FOR SPECIFIC INFORMATION CONCERNING ITEMS INDICATED.
- DOOR AND/OR FRAME TO BE REMOVED, SEE DEMOLITION NOTES FOR SPECIFIC INFORMATION ABOUT OPENINGS

DEMOLITION NOTES

1. DEMOLITION SHALL INCLUDE REMOVAL OF ALL FLOORING ADHESIVES DOWN TO CONCRETE SLAB ON GRADE, READY FOR FINAL FLOOR FINISH
2. OWNER SHALL REMOVE ALL EQUIPMENT AND ACCESSORIES FROM AREAS BEING REMODELED THIS INCLUDES, BUT IS NOT LIMITED TO, MEDICAL EQUIPMENT, CHART HOLDERS, SIGNAGE, BROCHURE RACKS, TOILET ACCESSORIES, PICTURES, COMPUTER EQUIPMENT, ETC.
3. ITEMS TO BE SALVAGED ARE DESIGNATED ON THE PLANS OR AS NOTED BELOW: (A) REFER TO UTILITY DRAWINGS FOR ITEMS UNDER VARIOUS DISCIPLINES TO BE SALVAGED
4. DEMOLITION SHALL FOLLOW OWNER'S ICRA REQUIREMENTS. TEMPORARY WALLS SHALL SEAL AGAINST EXISTING ROOF DECK. REMOVE AND REPLACE EXISTING STICK PANELED INSULATION AT UNDERSIDE OF ROOF DECK AS NECESSARY FOR PROPER WALL SEAL.
5. REFER TO FINISH PLAN FOR FLOORING REMOVAL EXTENTS WHERE PARTIAL REMOVAL IS REQUIRED
6. REFER TO ROOF DEMOLITION PLAN FOR ROOF ELEMENTS / ROOF DEMOLITION PICTURES
7. DEMOLITION AREA PICTURES ARE INDICATED BY SYMBOL. REFER TO PICTURE INDICATED NEXT TO SYMBOL.

DEMOLITION KEYED NOTES

- SHVD - SHEET VINYL FLOORING AND INTEGRAL COVE BASE TO BE REMOVED. COORDINATE EXTENT AT EXISTING ROOMS WITH FINISH PLAN
- SPSA - GYPSUM BOARD REMOVAL ON WALLS IN THIS ROOM AS NECESSARY FOR UTILITY WORK IN WALL CAVITY. COORDINATE EXTENT WITH UTILITY DRAWINGS (NOT ALL LOCATIONS ARE NOTED)
- SGOZ - SLAB ON GRADE DEMOLITION FOR UNDERSLAB UTILITY DEMOLITION / REMODEL WORK. APPROXIMATE AREA SHOWN HATCHED.

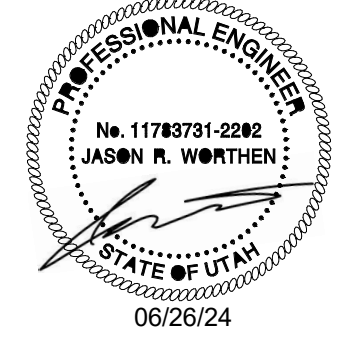


SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
LIGHTING	
(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
(W-3E)	FIXTURE IDENTIFICATION: EMERGENCY LIGHTING FIXTURE WITH BATTERY PACK AND/ OR GENERATOR AND/ OR CENTRALIZED INVERTER AND/ OR CENTRALIZED UPS CONNECTION AS INDICATED IN PLANS. (W-3E) INDICATES FIXTURE TYPE AS SCHEDULED.
EM	EMERGENCY.
NL	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.
P	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.
a,b	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)
RC	DIGITAL LIGHTING ROOM CONTROLLER
DC	DIGITAL LIGHTING DIMMING CONTROLLER
LC	DIGITAL PLUG LOAD CONTROLLER
LS	LIGHTING NETWORK SWITCH.
NR	LIGHTING NETWORK ROUTER.
SM	LIGHTING NETWORK SEGMENT MANAGER
NB	LIGHTING NETWORK BRIDGE
ET	LIGHTING EMERGENCY TRANSFER DEVICE
L X	LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE SCHEDULE / DIAGRAM.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
FIRE ALARM	
FAA	FIRE ALARM ANNUNCIATOR PANEL.
FACP	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
FATC	FIRE ALARM TERMINAL CABINET: NAC, SLC, SPEAKER CIRCUITS; AMPLIFIERS, BATTERIES
HVAC	CONTROL PANEL FOR HVAC: SMOKE CONTROL, STAIR PRESSURIZATION.
EVAC	VOICE EVACUATION PANEL.
PRE	PRE-ACTION CONTROL PANEL.
MIC	REMOTE VOICE EVACUATION MICROPHONE.
FPC	FIRE PUMP CONTROLLER.
JPC	JOCKEY PUMP CONTROLLER.
C	AUTOMATIC DOOR CLOSERS: DOOR CLOSERS SHALL BE FURNISHED WITH DOOR HARDWARE AND CONNECTED BY FIRE ALARM INSTALLER.
CM	CONTROL MODULE.
MM	MONITOR MODULE.
F	FIRE ALARM MANUAL PULL STATION.
R	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
FS	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.
VS	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.
PS	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.
⊗ _A	DETECTOR, SMOKE WITH AUXILIARY CONTACT.
⊗ _{BR}	DETECTOR, SMOKE, BEAM RECEIVER.
⊗ _{BT}	DETECTOR, SMOKE, BEAM TRANSMITTER.
⊗ _E	DETECTOR, SMOKE, ELEVATOR RECALL DESIGNATION.
⊗ _G	DETECTOR, SMOKE WITH GUARD.
⊗ _R	DETECTOR, SMOKE, RESIDENTIAL.
⊗ _S	DETECTOR, SMOKE WITH STROBE.
⊗ _{RS}	DETECTOR, SMOKE, RESIDENTIAL WITH SOUNDER BASE.
⊗ _{AS}	DETECTOR, SMOKE, AIR SAMPLING SYSTEM PORT LOCATION.
⊗	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
⌋ _{SD}	SMOKE DAMPER. 120V POWER FROM ELECTRICAL SYSTEM.
⊗ _{FSD}	COMBINATION FIRE/SMOKE DAMPER. 120V POWER FROM ELECTRICAL SYSTEM.
⊗ _R TS	REMOTE ALARM INDICATING AND TEST SWITCH.
⊗	DETECTOR, HEAT.
⊗	DETECTOR, CARBON MONOXIDE.
⊗	STROBE, WALL MOUNTED.
⊗ ₇₅	STROBE, WALL MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
⊗ _{WP}	ALARM, HORN/SPEAKER, WALL MOUNTED, WEATHERPROOF.
⊗	ALARM, HORN/STROBE, WALL MOUNTED, ONE ASSEMBLY.
⊗ ₇₅	ALARM, HORN/STROBE, WALL MOUNTED, ONE ASSEMBLY, SUBSCRIPT INDICATES CANDELA RATING.
⊗ _C	ALARM, CHIME/STROBE, WALL MOUNTED, ONE ASSEMBLY.
⊗ _G	ALARM, HORN/STROBE WITH GUARD, WALL MOUNTED, ONE ASSEMBLY.
⊗ _M	ALARM, MINI HORN/STROBE, WALL MOUNTED, ONE ASSEMBLY.
⊗	SPEAKER, WALL MOUNTED, EVACUATION.
⊗	SPEAKER, WALL MOUNTED, EVACUATION, COMBINATION STROBE.
⊗ ₇₅	SPEAKER, WALL MOUNTED, EVACUATION, COMBINATION STROBE. SUBSCRIPT INDICATES CANDELLA RATING.
⊗ ₇₅	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
⊗ ₇₅	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
⊗ ₇₅	SPEAKER/STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
⊗	SPEAKER, CEILING MOUNTED.
⊗ ₇₅	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
⊗	BELL, ELECTRIC, 120V FROM ELECTRICAL SYSTEM OR 24V FROM FIRE ALARM SYSTEM

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
SECURITY	
—X—	SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.
ACC	ACCESS CONTROL HEADEND EQUIPMENT.
CTR	SECURITY CONTROL PANEL.
SEC	INTRUSION DETECTION HEADEND EQUIPMENT.
#1	CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.
CR	CARD READER.
KCR	KEYPAD/CARD READER COMBINATION.
⊖	DOOR SWITCH, BALANCED MAGNETIC CONTROL.
⊗ ER	EXIT REQUEST.
⊗ RL	REMOTE DOOR RELEASE BUTTON.
⊖	BELL.
⊖	BUZZER.
⊖	BUZZER, COMBINATION BELL.
⊖	SENSOR, BURIED VEHICULAR.
⊖	SENSOR, GLASS BREAK.
⊖	SENSOR, VOLUMETRIC.
CA	CONTROLLED ACCESS POINT.
IC	INTERCOM STATION.
IRU	DUAL TECHNOLOGY PASSIVE INFRARED SENSOR AND ULTRASONIC MOTION DETECTOR.
IR	PASSIVE INFRARED SENSOR.
P	PANIC DURESS SWITCH.
U	ULTRASONIC MOTION DETECTOR.
AP	ANNUNCIATOR PANEL.
MSI	MASTER STATION, INTERCOM.

SEAL & SIGNATURE



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KEY PLAN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26651.000
DATE
06/26/24
ISSUE

SHEET TITLE
SYMBOLS LEGEND

SHEET NO.

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CATEGORY INSERT COLOR SCHEDULE	
INSERT COLOR	TYPE/ APPLICATION
BLACK	TV COAX
BLUE	ANALOG PHONE
BLUE	DATA
BLUE	SECURITY CAMERAS
GRAY	SECURITY CARD READERS
ORANGE	CLINICAL ENGINEERING / NURSE CALL
RED	FIRE SYSTEMS
RED	FORESEER
WHITE	PUBLIC ADDRESS
YELLOW	WIRELESS
GREEN	VENDOR NETWORK

COPPER PATCH CORD SCHEDULE (CATEGORY 6A F/UTP CABLES W/RJ-45 CONNECTORS)				
LENGTH (FEET)	COLOR	QUANTITY	UNIT COST (EACH)	
5'	BLUE	20% OF TOTAL PORTS IN TDR'S	-	
7'	BLUE	60% OF TOTAL PORTS IN TDR'S	-	
10'	BLUE	20% OF TOTAL PORTS IN TDR'S	-	

COPPER PATCH CORD SCHEDULE (CATEGORY 5E CABLES W/RJ-45 CONNECTORS)				
LENGTH (FEET)	COLOR	QUANTITY	UNIT COST (EACH)	
5'	BLUE	15	-	
7'	BLUE	15	-	
10'	BLUE	15	-	

FIBER PATCH CORD SCHEDULE (SINGLE-MODE W/LC CONNECTORS)				
LENGTH (METER)	COLOR	QUANTITY	UNIT COST (EACH)	
3	YELLOW	-	-	
5	YELLOW	-	-	

WIRELESS PATCH CORD PATCH CORD SCHEDULE (CATEGORY 6A F/UTP W RJ45 CONNECTORS)				
LENGTH (METER)	COLOR	QUANTITY	UNIT COST (EACH)	
7'	YELLOW	100% OF TOTAL PORTS IN TDR'S	-	

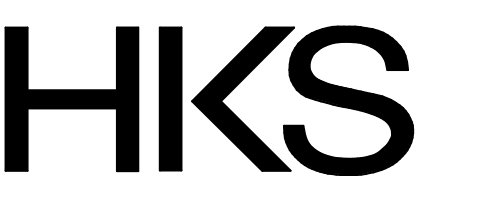
CLINICAL ENGINEERING PATCH CORD SCHEDULE (CATEGORY 6A F/UTP W RJ45 CONNECTORS)				
LENGTH (METER)	COLOR	QUANTITY	UNIT COST (EACH)	
5'	ORANGE	70% OF TOTAL PORTS IN TDR'S	-	
7'	ORANGE	30% OF TOTAL PORTS IN TDR'S	-	

EQUIPMENT/CABLE LIST		
THE ITEMS INDICATED BELOW SHALL NOT BE CONSIDERED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION, WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS OTHERWISE SPECIFIED. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS, WHICH MAY NOT BE LISTED HERE, FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
SYMBOL	ITEM DESCRIPTION	ACCEPTABLE TYPES
	VOICE OUTLET, SINGLE GANG FACEPLATE, WHITE W/WALL HUNG PHONE MOUNTING STUDS, ONE POSITION W/ CATEGORY 6A INSERT	SIEMON MX-WP-Z6AS-SS
	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON 10GMX-FPS04-02 SIEMON Z6A-S06 SIEMON MX-BL-02 SIEMON 10GMX-FPS04-02 SIEMON Z6A-S06 SIEMON MX-BL-02
	BLANK INSERT, WHITE	SIEMON MX-BL-02
	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON MX-BL-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON MX-BL-02
	BLANK INSERT, WHITE	SIEMON MX-BL-02
	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON MX-BL-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON MX-BL-02
	BLANK INSERT, WHITE	SIEMON MX-BL-02
	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION (C=CEILING MOUNTED BOX)	SIEMON MX-SM22-02
	CATEGORY 6A JACK - DATA, YELLOW	SIEMON Z6A-S05
	48 PORT, 2RU ANGLED PATCH PANEL, 110 STYLE TERMINATION	SIEMON HD5-48A SIEMON PNL-BLNKA-1 SIEMON Z6AS-PA-48
	48 PORT, 1RU ANGLED PATCH PANEL, WITH OUTLETS - DETACHABLE REAR MNG	SIEMON Z6AS-PNL-U48K
	48 PORT, 2RU FLAT PATCH PANEL, WITH OUTLETS - FIXED MNG	SIEMON Z6AS-PA-48
	48 PORT, 1RU ANGLED PATCH PANEL, WITH OUTLETS - DETACHABLE REAR MNG	SIEMON UPS-F1-24K-RS SIEMON UPS-A1-48L-RS SIEMON UPS-F2-48K-RS SIEMON Z6AS-PA-48
	24 PORT, 1RU FLAT PATCH PANEL, WITH OUTLETS	SIEMON HD5-24A
	48 PORT, 1RU ANGLED PATCH PANEL, WITH OUTLETS	SIEMON LVE-21-4MD-FD1A SIEMON LVS12-LSUARJAB1A SIEMON LVA-BLANK-01A
	48 PORT, 1RU ANGLED PATCH PANEL, WITH OUTLETS	PANDUIT PR2HF4 PANDUIT PR2HF2
	24 PORT, 1RU FLAT PATCH PANEL, 110 STYLE TERMINATION	CHATS WORTH 40096-715
	HORIZONTAL WIRE MANAGERS, 4RU	CORNING PSM-1U CORNING PSM-1
	HORIZONTAL WIRE MANAGERS, FRONT ONLY, 2RU, BLACK	SURGE GATE CAT6A-LAN
	VERTICAL WIRE MANAGERS, 10" WIDTH, DOUBLE SIDED, BLACK, 8"	CHATS WORTH 55053-715
	POWER SUPPLY UNIT, 12 PORT, 1RU	
	MODULAR POWER SUPPLY, 67 VDC	
	BUILDING ENTRANCE TERMINAL, CAT 6A, 110 STYLE TERMINATION	
	EQUIPMENT RACK 19" x 8", 52 RU, BLACK	DCE E456212122001S DCE E456212122001S DCE E456212122001S DCE E457212122001S DCE E457212122001S DCE E457212122001S DCE E457212122001S
	DATA CENTER CABINETS 23.6" x 47.3" x 7", 45RU x 600mm x 1200mm, BLACK, WITH 2 SIDES	CHATS WORTH 11840-748
	DATA CENTER CABINET, 45RU x 600mm x 1200mm, BLACK, WITH 1 SIDE	
	DATA CENTER CABINET, 45RU x 600mm x 1200mm, BLACK	
	DATA CENTER CABINETS 27.6" x 47.3" x 7", 45RU x 700mm x 1200mm, BLACK, WITH 2 SIDES	
	DATA CENTER CABINET, 45RU x 700mm x 1200mm, BLACK, WITH 1 SIDE	
	DATA CENTER CABINET, 45RU x 700mm x 1200mm, BLACK	
	WALL MOUNTED CABINET, 48"(H) x 24"(D), 26RU, BLACK, SOLID METAL DOOR	
	WALL MOUNTED RACK, 53.6" H x 17" D, 26RU, BLACK	CHATS WORTH 11807-718
	HEAVY DUTY SWING GATE KIT	CHATS WORTH 12795-701
	CABLE RUNWAY - 24" BLACK WITH ALL REQUIRED MOUNTING ACCESSORIES	CHATS WORTH 10250-724
	CABLE RUNWAY - 18" BLACK WITH ALL REQUIRED MOUNTING ACCESSORIES	CHATS WORTH 10250-718
	BUTT SPLICE KIT, BLACK	CHATS WORTH 11301-701
	JUNCTION SPLICE KIT, BLACK	CHATS WORTH 11302-701
	FOOT KIT, BLACK	CHATS WORTH 11309-701
	6" CHANNEL RACK TO RUNWAY, BLACK	CHATS WORTH 12409-724
	18" TRIANGLE BRACKETS, BLACK	CHATS WORTH 11746-718
	24" TRIANGLE BRACKETS, BLACK	CHATS WORTH 11746-724
	END CLOSING KIT, CABLE RUNWAY, BLACK	CHATS WORTH 11700-724
	18" WALL ANGLE SUPPORT KIT, CABLE RUNWAY, BLACK	CHATS WORTH 11421-718
	24" WALL ANGLE SUPPORT KIT, CABLE RUNWAY, BLACK	CHATS WORTH 11421-724
	CABLE RUNWAY ELEVATION KIT, 6"	CHATS WORTH 10506-706
	CABLE RUNWAY RADIUS DROP	CHATS WORTH 12100-712
	CABLE BASKET TRAY, GALVANIZED (REFER TO FLOOR PLANS FOR CABLE TRAY SIZING)	CABLOFIL, LEGRAND, WBT, OR COOPER B-LINE
	FIRE-RATED SLEEVES (2"x2" FOR ROOM PENETRATIONS, 4"x4" FOR J-HOOK PATHWAYS)	STIE EZ PATH, HILT
	SMOKE/ ACOUSTICAL-RATED SLEEVES (2"x2" FOR ROOM PENETRATIONS, 4"x4" FOR J-HOOK PATHWAYS)	STIE EZ PATH, HILT
	TRIPLE-TREE J-HOOKS	CADDY CAT64HPSWM3
	PLYWOOD BACKBOARD, 3/4"x4"x8", GRADE AC, FIRE-TREATED & PAINTED WHITE (MOUNT 6" AFF)	
	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR	
	TELECOMMUNICATIONS GROUNDING BUS BAR	

NOTE: ALL RACKS, LADDER, PATCH PANELS AND ACCESSORIES SHALL BE BLACK IN COLOR.

SHEET KEYNOTES

- UNLESS OTHERWISE NOTED, INSTALL ALL CABLE INSIDE RACEWAY SYSTEMS. WHERE RACEWAY SYSTEMS HAVE NOT BEEN PROVIDED OR SPECIFIED, INSTALL CABLE THROUGH THE SPECIFIED "CADDY" CLIPS AT THE MINIMUM INTERVALS IDENTIFIED IN THE SPECIFICATIONS. SUPPORT "CADDY" CLIPS DIRECTLY FROM THE BUILDING STRUCTURE, NOT FROM OTHER BUILDING SYSTEM SUPPORT WIRES OR CABLE.
- PROVIDE PLENUM RATED CABLE IN ALL AIR PLENUMS. IF A PLENUM RATED CABLE IS NOT SPECIFIED, PROVIDE THE PLENUM RATED EQUIVALENT TO THE SPECIFIED CABLE.
- LABEL ALL CABLE INSTALLED UNDER THIS CONTRACT REGARDLESS OF LENGTH.
- THE EQUIPMENT LABELING IDENTIFIED ON DETAILS IN THESE DRAWINGS ARE EXAMPLES ONLY OF THE ACTUAL LABELING, WHICH IS REQUIRED AS PART OF THIS CONTRACT. PRIOR TO FABRICATION, SUBMIT THE NOMENCLATURE FOR ALL LABELS TO THE OWNER FOR REVIEW. THIS REQUIREMENT INCLUDES, BUT IS NOT LIMITED TO, ALL CABLE LABELING AND ALL EQUIPMENT LABELING.
- IF OUTLET IS TERMINATED IN CEILING SPACE, LABEL THE T-BAR GRID WITH THE OUTLET NUMBER FOR EASY LOCATION AND IDENTIFICATION.
- GROUND ALL EQUIPMENT RACKS INSTALLED UNDER THIS CONTRACT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- FOR EVERY FULL SPECIFIED, COIL 15 FEET OF EXCESS CABLE AT THE STATION END FOR FUTURE USE. NEATLY COIL 15 FEET ABOVE THE CEILING OR BELOW THE FLOOR, WHERE APPLICABLE.
- PROVIDE THE QUANTITY OF PATCH PANELS REQUIRED +20% FOR THE TOTAL DATA OUTLETS SHOWN ON FLOOR PLANS FOR THE PARTICULAR LEVEL.
- RACK SPACE ALLOCATION SHOULD BE FOLLOWED PER DRAWINGS. IF THERE IS A SYSTEM THAT HAS NO RACK SPACE AVAILABLE, PLEASE CALL BOE SAUSED0 AT 801-707-3805.
- COORDINATE WITH ALL SUB-CONTRACTORS TO ENSURE THAT ALL CABLES ARE PROTECTED FROM ANY DIRECT PAINT OR INCIDENTAL OVERSPRAY.
- CONTRACTOR TO PROVIDE FIRE-RATED SLEEVES THROUGH 1-HOUR RATED WALLS AND HIGHER. NUMBER OF SLEEVES TO BE DETERMINED AND CALCULATED BY MAXIMUM CABLE TRAY CAPACITY AT WALL PENETRATION. FINAL QUANTITY OF SLEEVES TO BE DETERMINED BY CONTRACTOR.
- CONTRACTOR TO PROVIDE SMOKE AND ACOUSTICAL-RATED SLEEVES THROUGH SMOKE WALLS AND ALL OTHER NON-RATED PENETRATIONS. (2) 4" SLEEVES PER ROOM FOR CABLE CAPACITY AND SERVICE SEPARATION. FINAL QUANTITY OF SLEEVES TO BE DETERMINED BY CONTRACTOR.
- CONTRACTOR TO PROVIDE FIRE-RATED SLEEVES THROUGH 1-HOUR RATED WALLS AND HIGHER. (1) SLEEVE PER J-HOOK PATHWAY FOR CABLE CAPACITY AND SERVICE SEPARATION.
- CONTRACTOR TO PROVIDE SMOKE AND ACOUSTICAL-RATED SLEEVES THROUGH SMOKE WALLS AND ALL OTHER NON-RATED PENETRATIONS. (1) SLEEVE PER J-HOOK PATHWAY FOR CABLE CAPACITY AND SERVICE SEPARATION.
- THE USE OF ZIP-TIES IS NOT ALLOWED TO BUNDLE CABLES (LACE OR TRAIN) IN LADDER RACK, CABLE TRAY, OR TO FINAL TERMINATION POINT. CONTRACTOR SHOULD UTILIZE "HOOK AND LOOP" FOR BUNDLING OF ALL CABLES.
- THE USE OF ZIP-TIES IS NOT ALLOWED FOR THE SUPPORT OF CABLE, OR THE ATTACHMENT OF CABLES IN ANY CEILING SPACE. THE USE OF J-HOOKS IS REQUIRED FOR NON-CONTINUOUS PATHWAYS IN CEILINGS. CONTRACTORS SHOULD UTILIZE "HOOK AND LOOP" FOR BUNDLING OF ALL CABLES.



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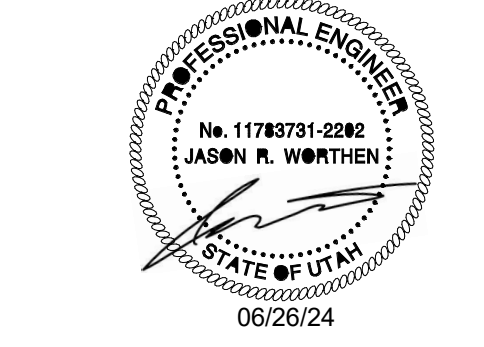
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KEY PLAN

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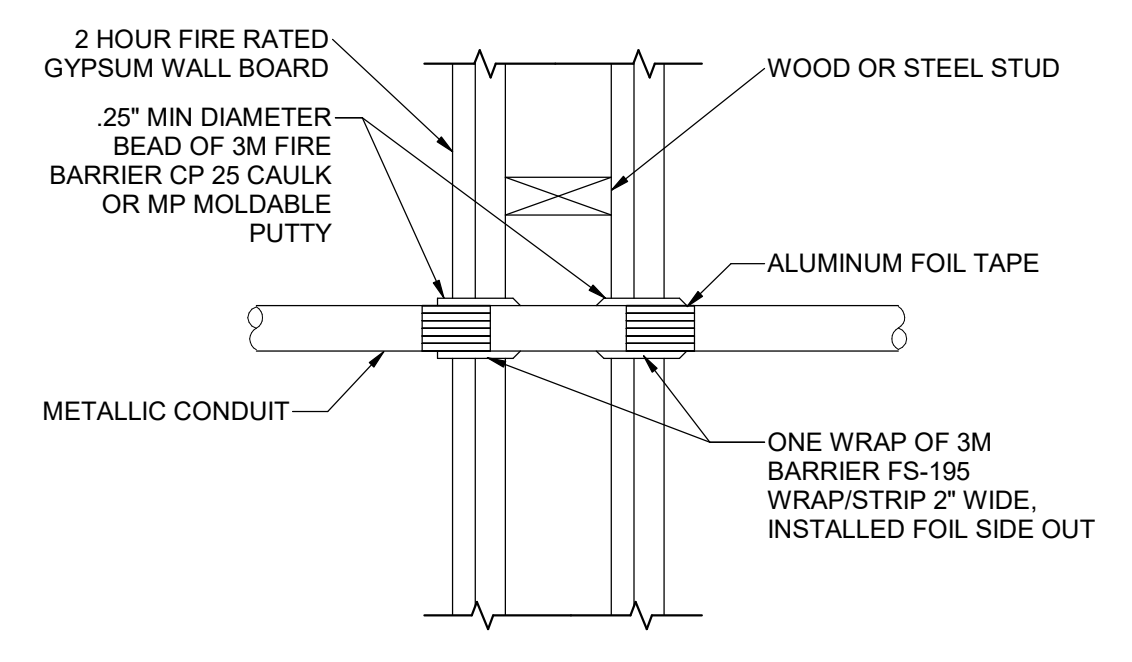
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SHEET TITLE
TELECOM SCHEDULES AND NOTES

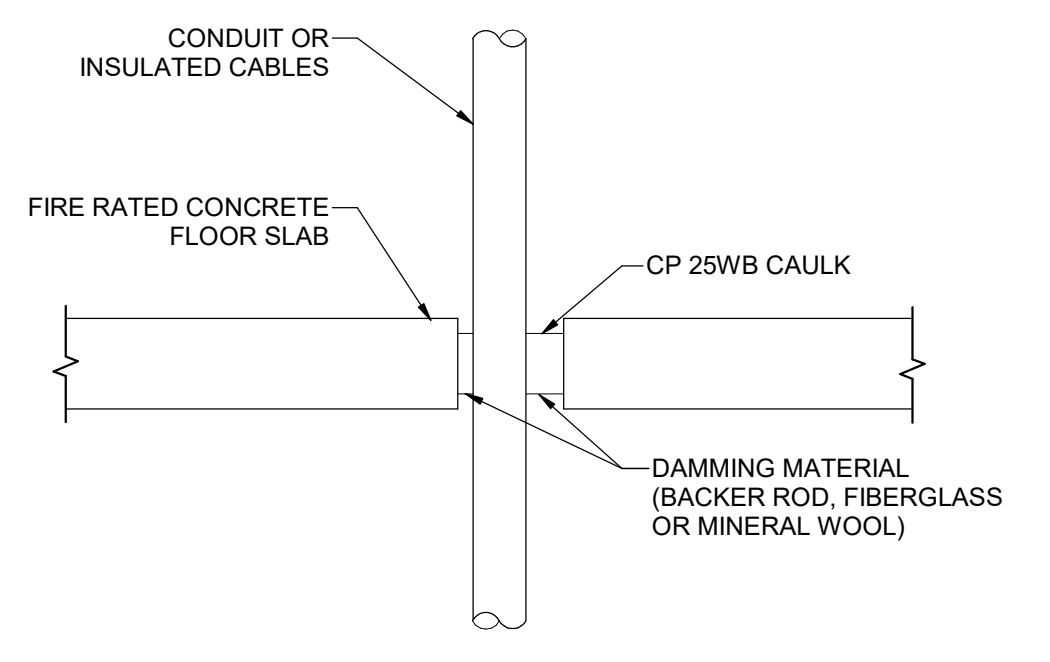
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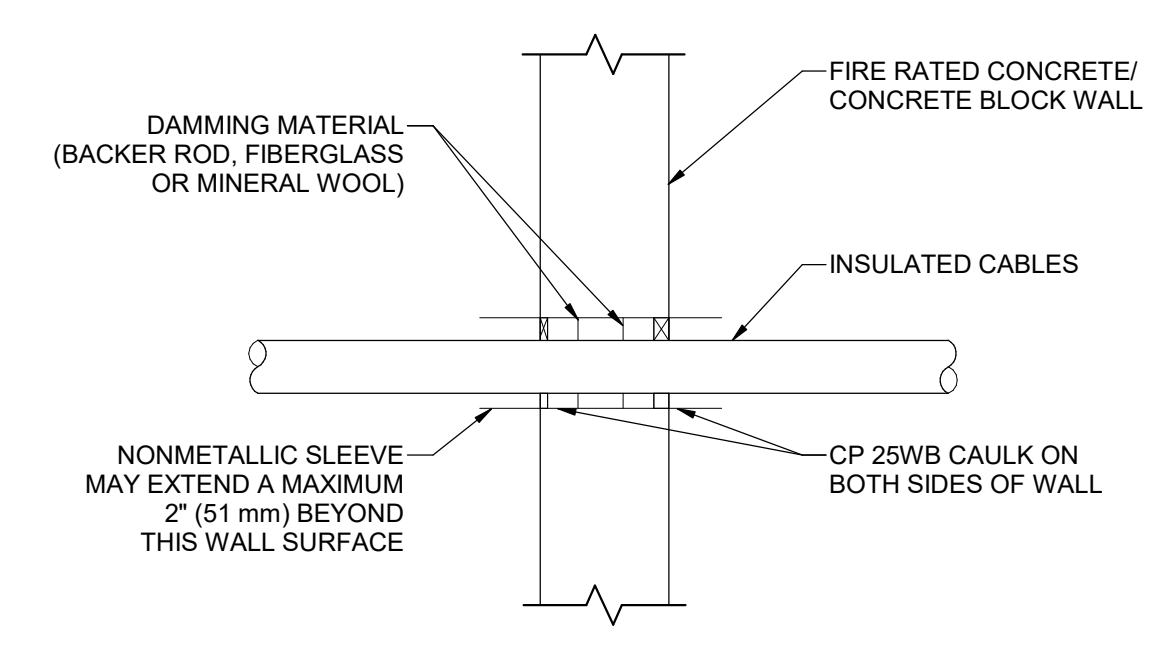
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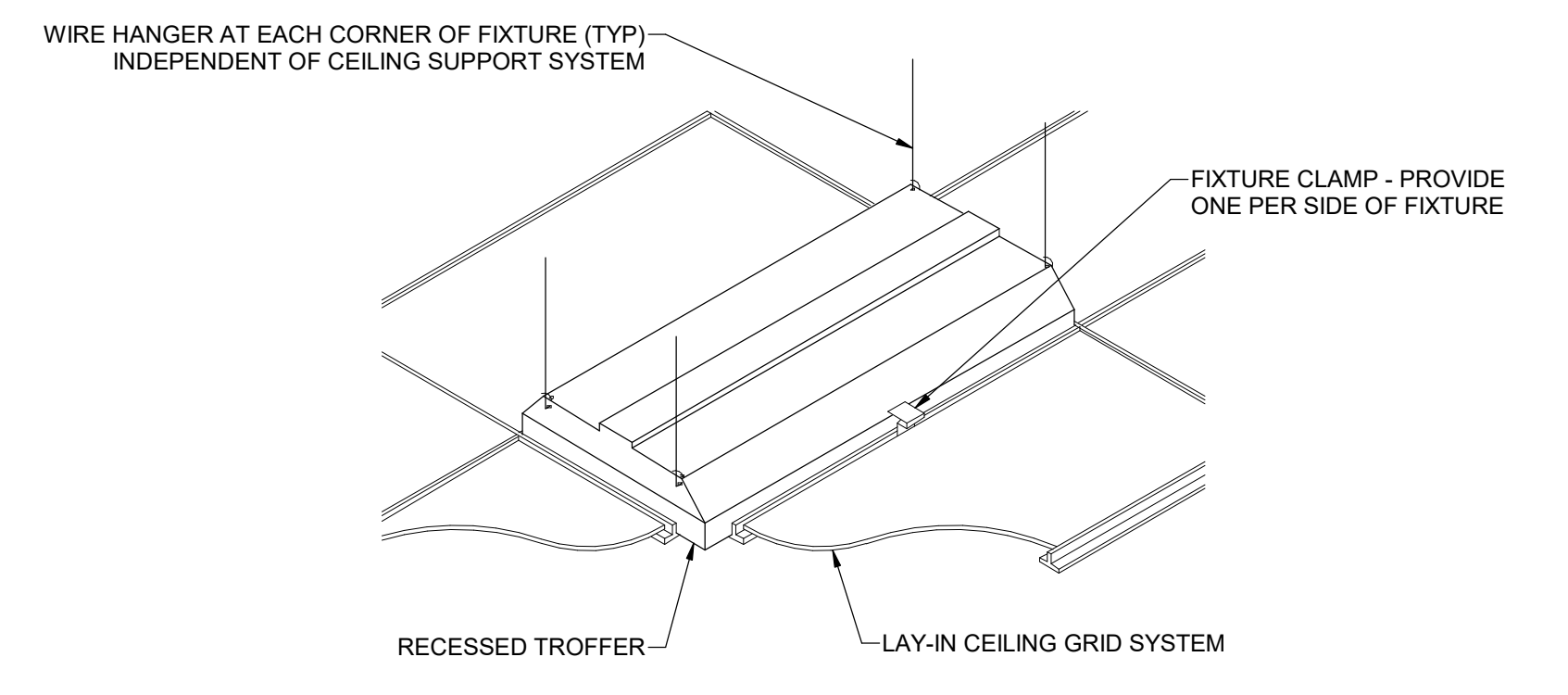
5 FIRE STOP FOR METAL CONDUIT THROUGH GYPSUM WALL BOARD1
 SCALE: NTS



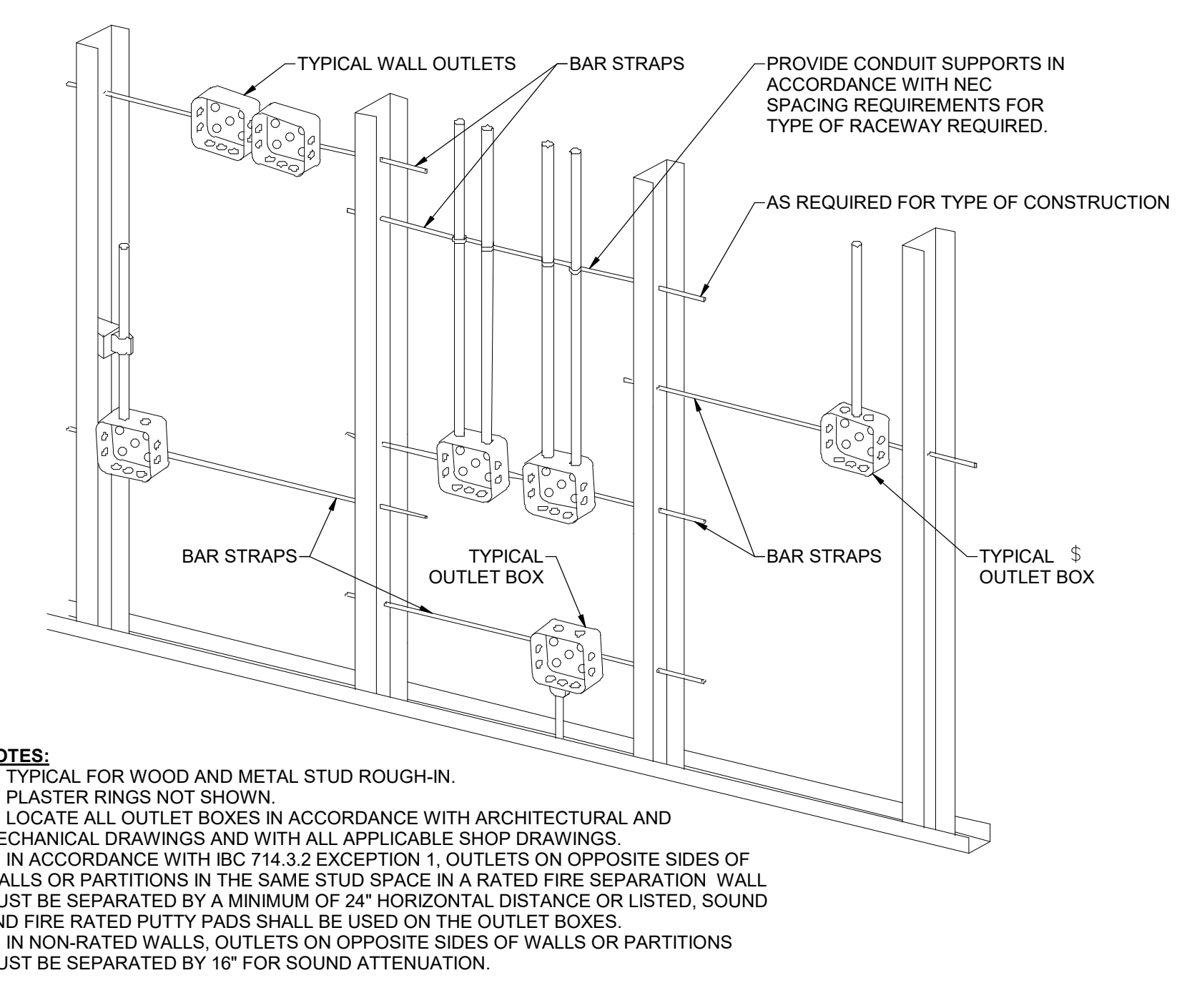
6 TYPICAL FIRE STOP FOR CABLES/CONDUIT THROUGH CONCRETE FLOORING1
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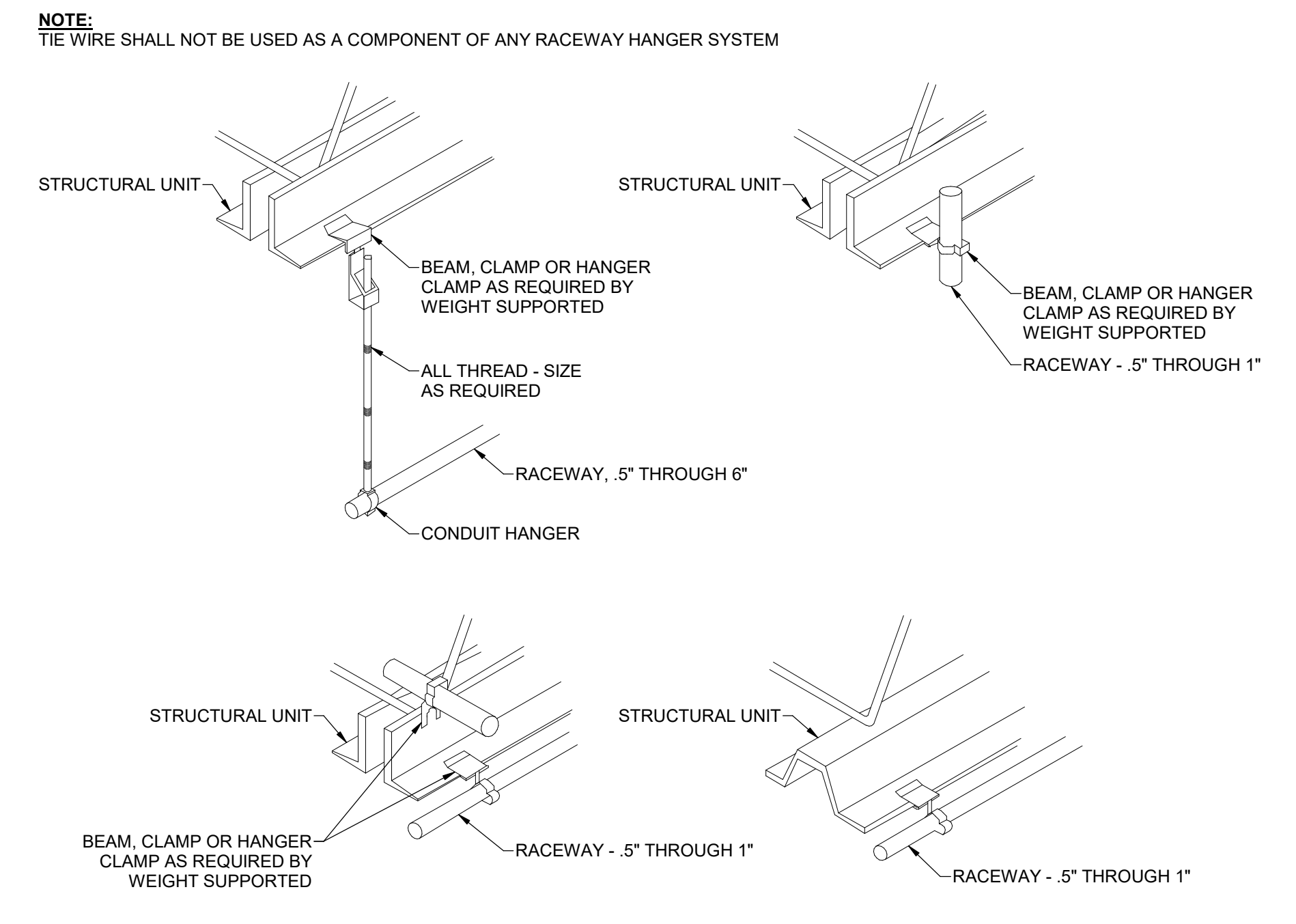
7 TYPICAL FIRE STOP FOR CABLES/CONDUIT THROUGH CONCRETE WALLS1
 SCALE: NTS



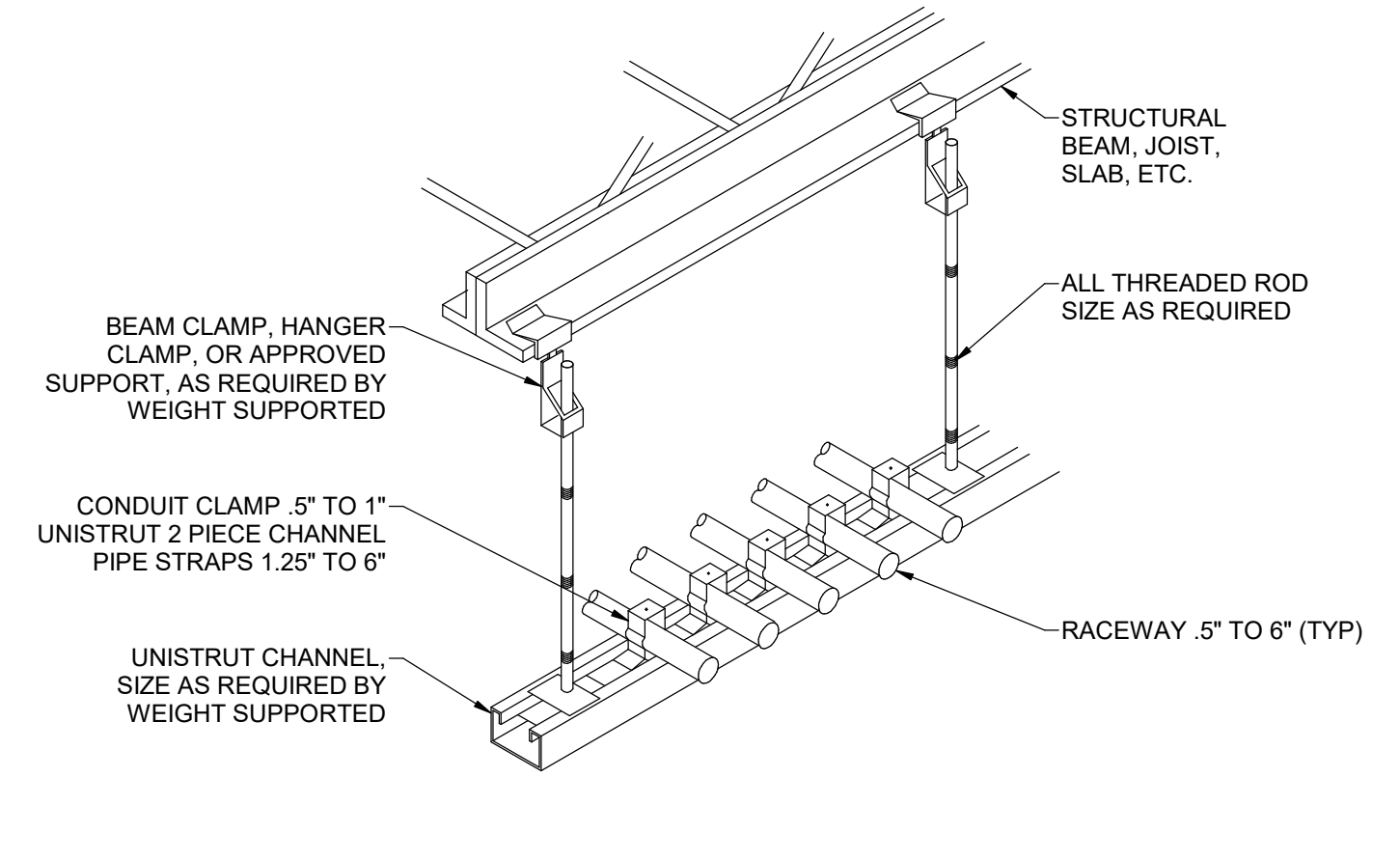
4 RECESSED FIXTURE MOUNTING DETAIL1
 SCALE: NTS



1 TYPICAL ROUGH-IN REQUIREMENTS DETAIL1
 SCALE: NTS



2 TYPICAL RACEWAY SUPPORT METHODS DETAIL1
 SCALE: NTS

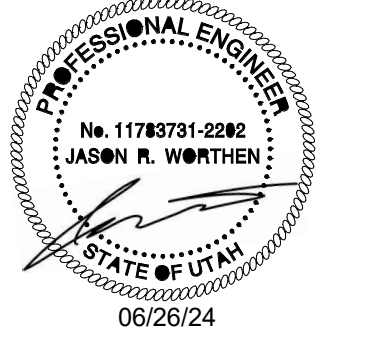


3 TYPICAL CONDUIT RACK DETAIL1
 SCALE: NTS

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.

NOTE:
 TIE WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER SYSTEM

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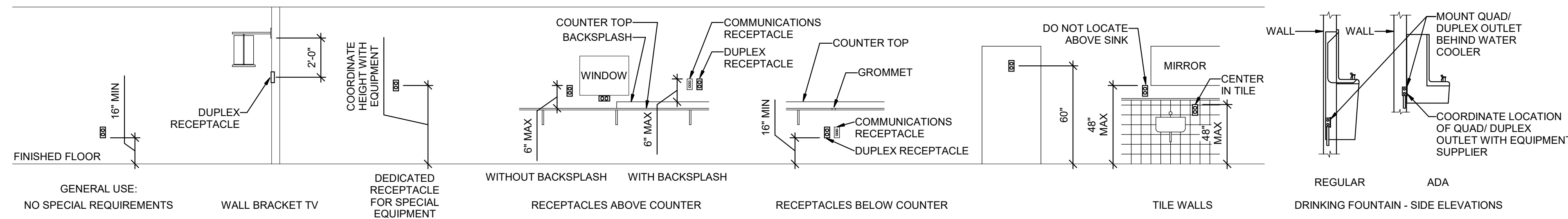
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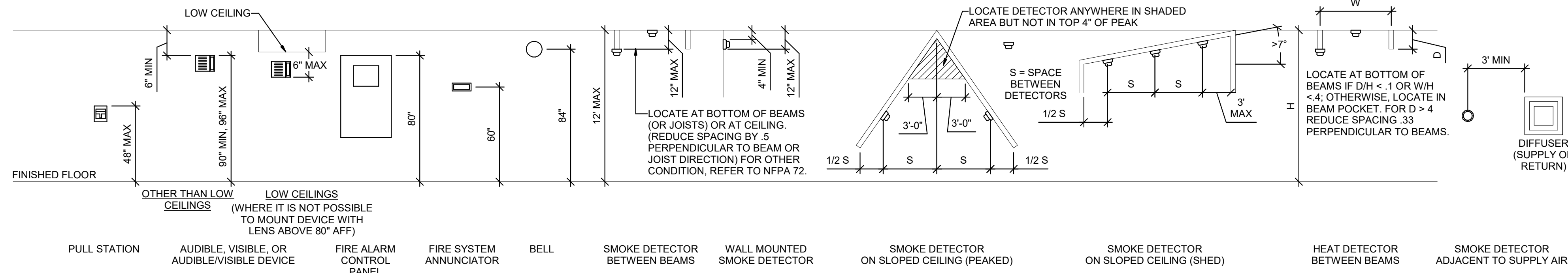
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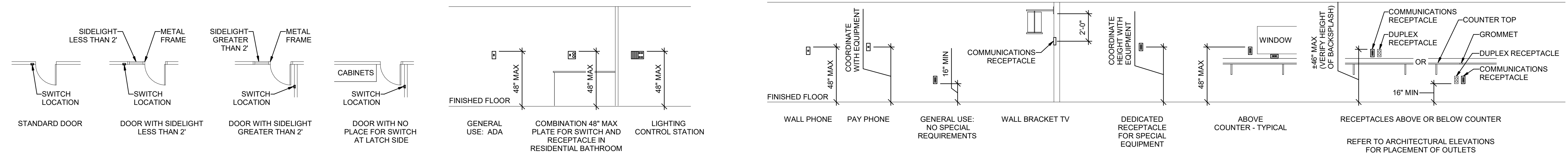
E2 RECEPTACLE MOUNTING DETAILS

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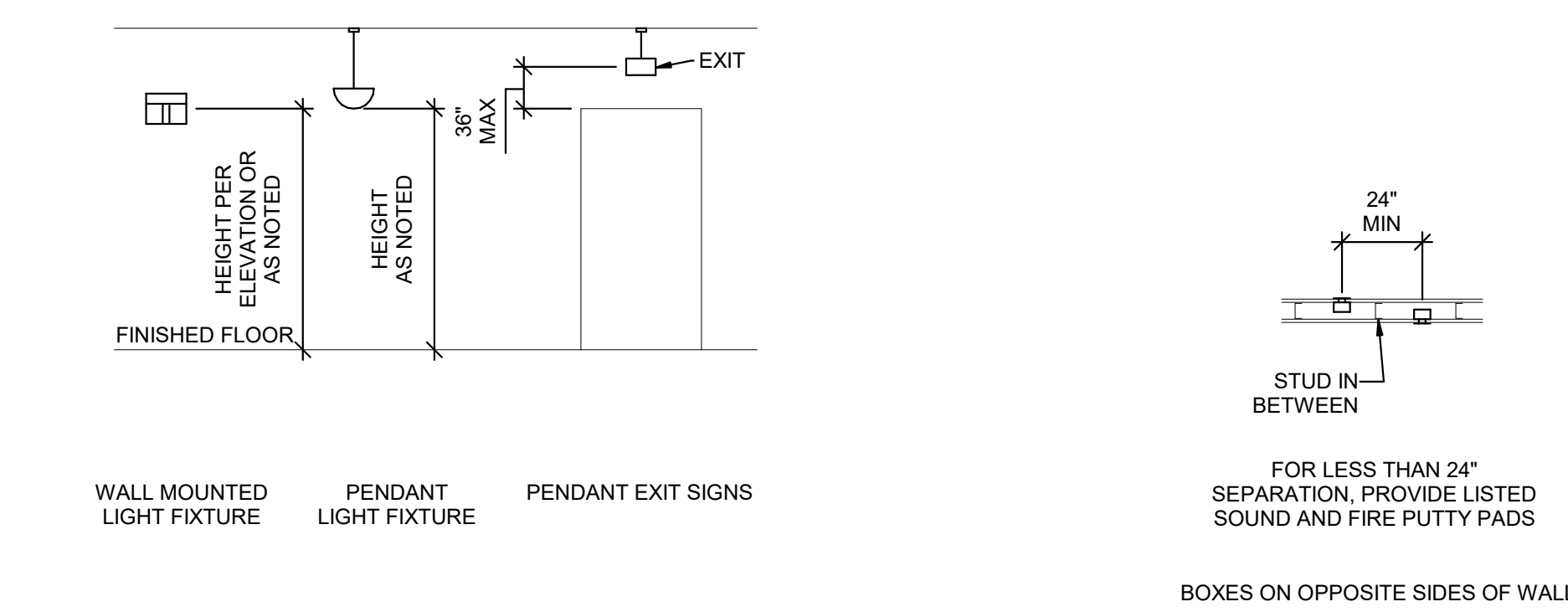
D2 FIRE ALARM MOUNTING DETAILS

SCALE: NTS



C2 SWITCH MOUNTING DETAILS

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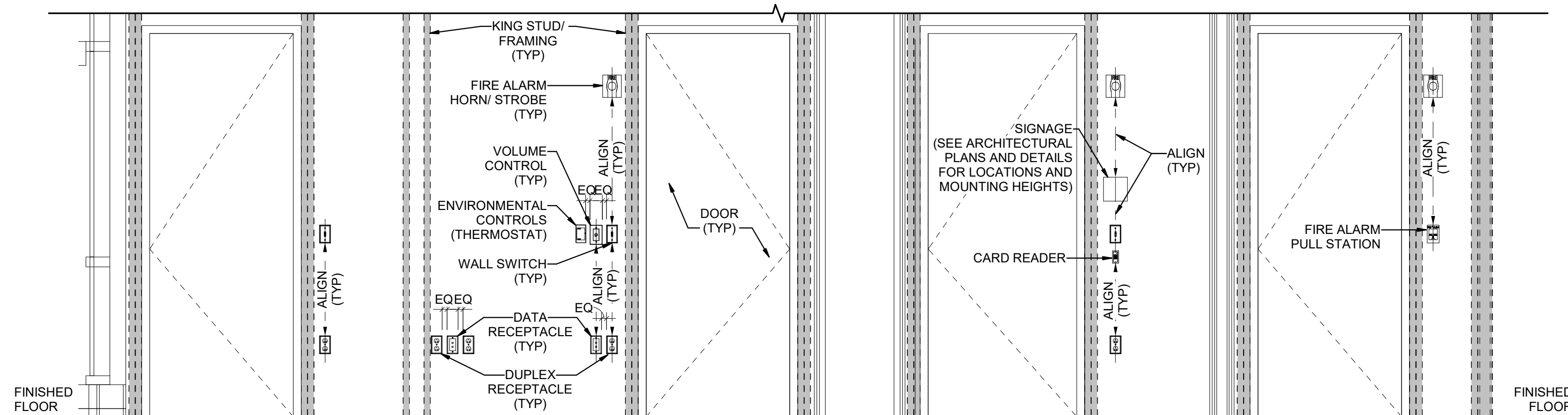


B2 LIGHTING MOUNTING DETAILS

SCALE: NTS

C4 COMMUNICATIONS MOUNTING DETAILS

SCALE: NTS



B3 BOX MOUNTING DETAILS

SCALE: NTS

B4 TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL

SCALE: NTS

GENERAL SHEET NOTES

- MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:
 A - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).
 B - EQUIPMENT SHOP DRAWINGS.
 C - FIELD INSTRUCTIONS.
- LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
- 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.
- MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
- SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
- LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
- VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
- LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.
- 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.



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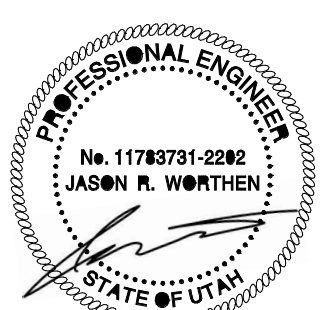
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 CON3-ADDRESS2

CON4-DISCIPLINE
 CON4-COMPANY
 CON4-ADDRESS1
 CON4-ADDRESS2

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KEY PLAN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
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 DATE
06/26/24
 ISSUE

SHEET TITLE
TYPICAL MOUNTING DETAILS

SHEET NO.

EE701

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 PRINT DATE: 06/26/24 10:21:23 AM TEMPLATE VERSION: 21124

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 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.
- 3 PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
- 4 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.
- 5 DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.
- 6 REMOVE FEEDERS FOR ALL DEMOLISHED PANELS, DISCONNECTS, ETC. BACK TO SOURCE
- 7 ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.
- 8 CONTRACTOR TO TRACE AND LABEL ALL EXISTING LOADS TO REMAIN, THAT ARE CURRENTLY FED FROM PANELS THAT ARE BEING DEMOLISHED IN THIS PHASE. THESE LOADS TO BE RE-FED FROM NEW PANELS IN NEXT PHASE.

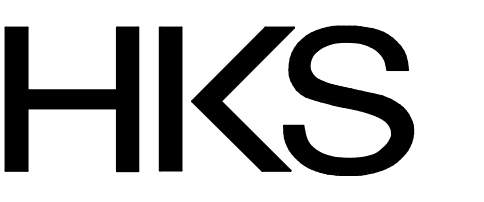
ARCHITECT
 HKS ARCHITECTS, INC.
 222 MAIN ST, ST #230
 SALT LAKE CITY, UTAH 84101

CON1-DISCIPLINE
 CON1-COMPANY
 CON1-ADDRESS1
 CON1-ADDRESS2

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 CON2-COMPANY
 CON2-ADDRESS1
 CON2-ADDRESS2

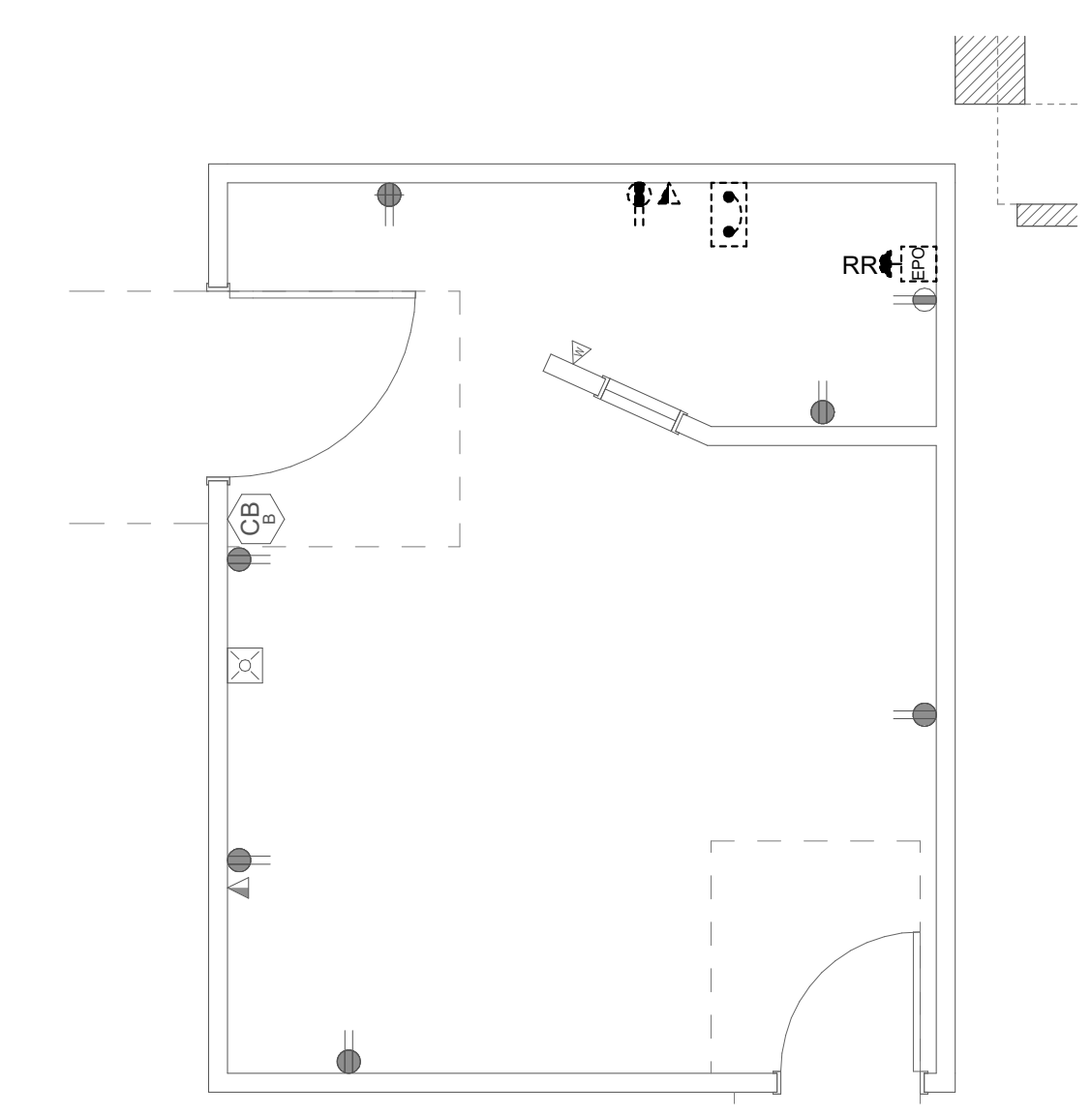
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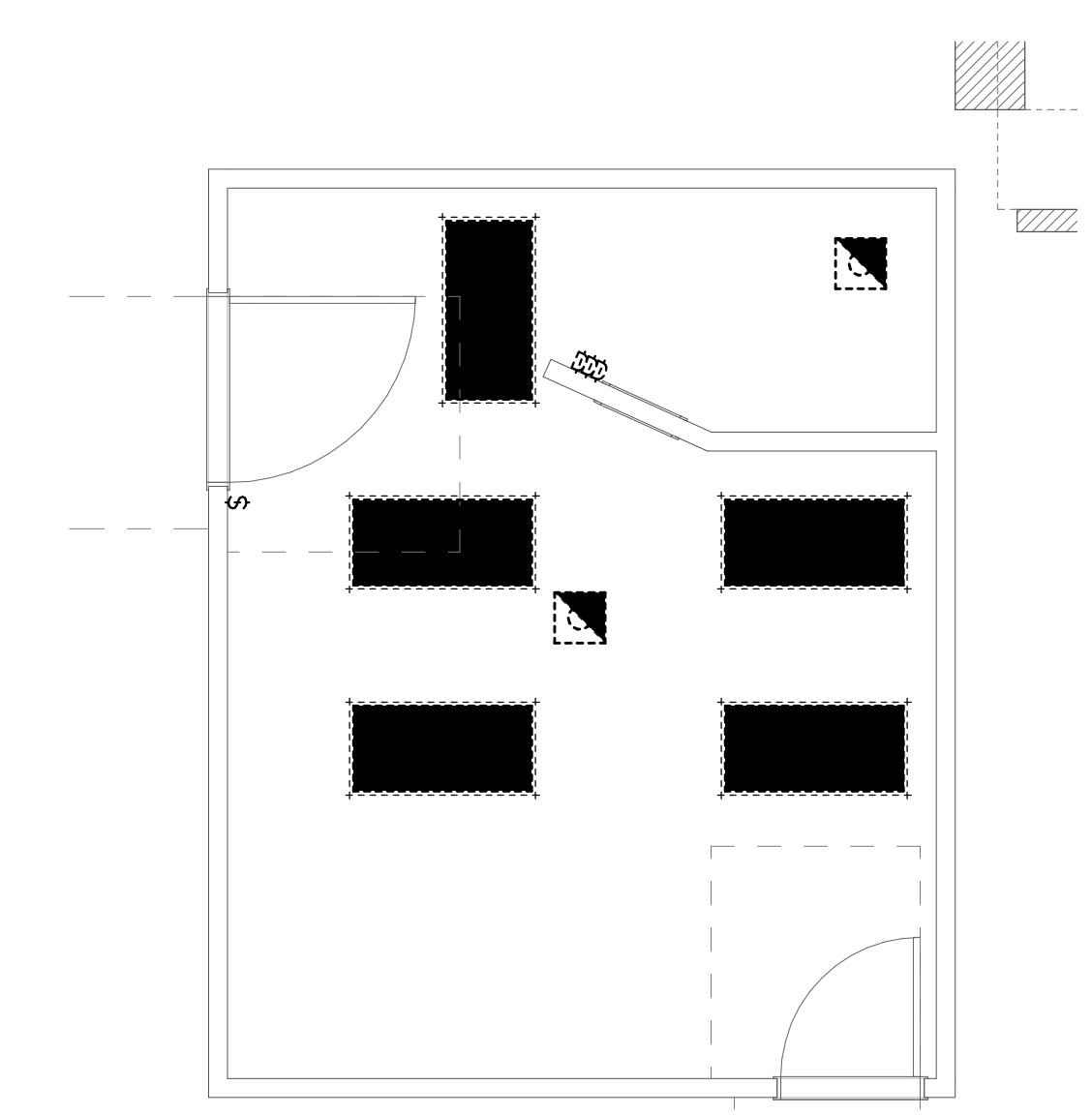


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 PROJECT ADDRESS:

SHEET KEYNOTES

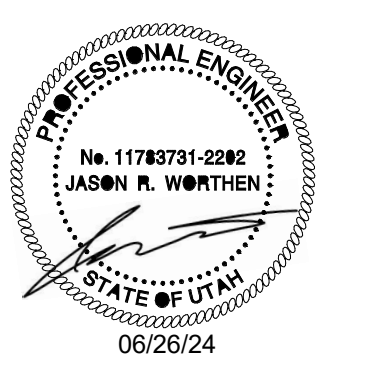


2 LEVEL 1 ELECTRICAL DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"



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

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KEY PLAN



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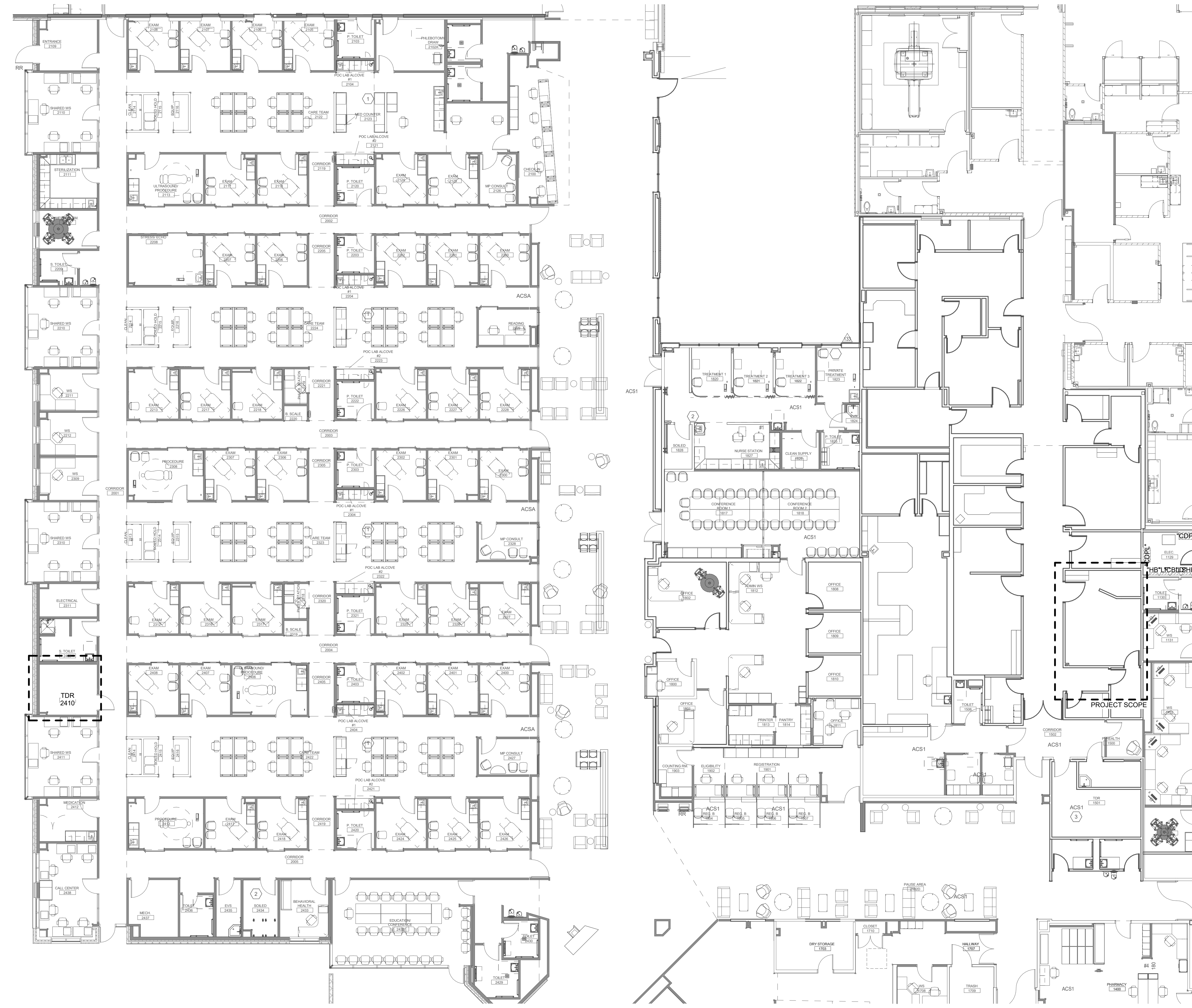
HKS PROJECT NUMBER
26651.000
 DATE
06/26/24
 ISSUE

SHEET TITLE
LEVEL 1 ELECTRICAL DEMOLITION PLAN

SHEET NO.

ED101

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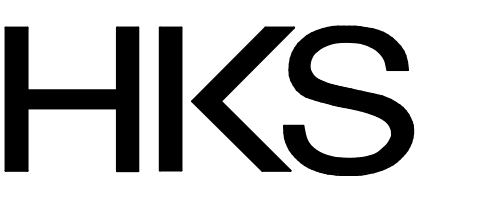


1 LEVEL 1 OVERALL POWER PLAN
SCALE: 1" = 10'-0"

GENERAL SHEET NOTES

- 1 ALL RECEPTACLES WITHIN 6' OF THE EDGE OF A SINK SHALL BE GFCI PROTECTED.
- 2 ALL WIRING IN PATIENT CARE AREAS SHALL MEET THE REQUIREMENTS OF NEC 517.13.
- 3 CONTRACTOR TO REFER TO GE IMAGING DRAWINGS FOR ADDITIONAL RESPONSIBILITIES.
- 4 PROVIDE DEDICATED NEUTRALS FOR ALL BRANCH CIRCUITS.

SHEET KEYNOTES



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CON1-DISCIPLINE
CON1-COMPANY
CON1-ADDRESS1
CON1-ADDRESS2

CON2-DISCIPLINE
CON2-COMPANY
CON2-ADDRESS1
CON2-ADDRESS2

CON3-DISCIPLINE
CON3-COMPANY
CON3-ADDRESS1
CON3-ADDRESS2

CON4-DISCIPLINE
CON4-COMPANY
CON4-ADDRESS1
CON4-ADDRESS2

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REPLACEMENT**
PROJECT ADDRESS:

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KEY PLAN

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HKS PROJECT NUMBER
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DATE
06/26/24
ISSUE

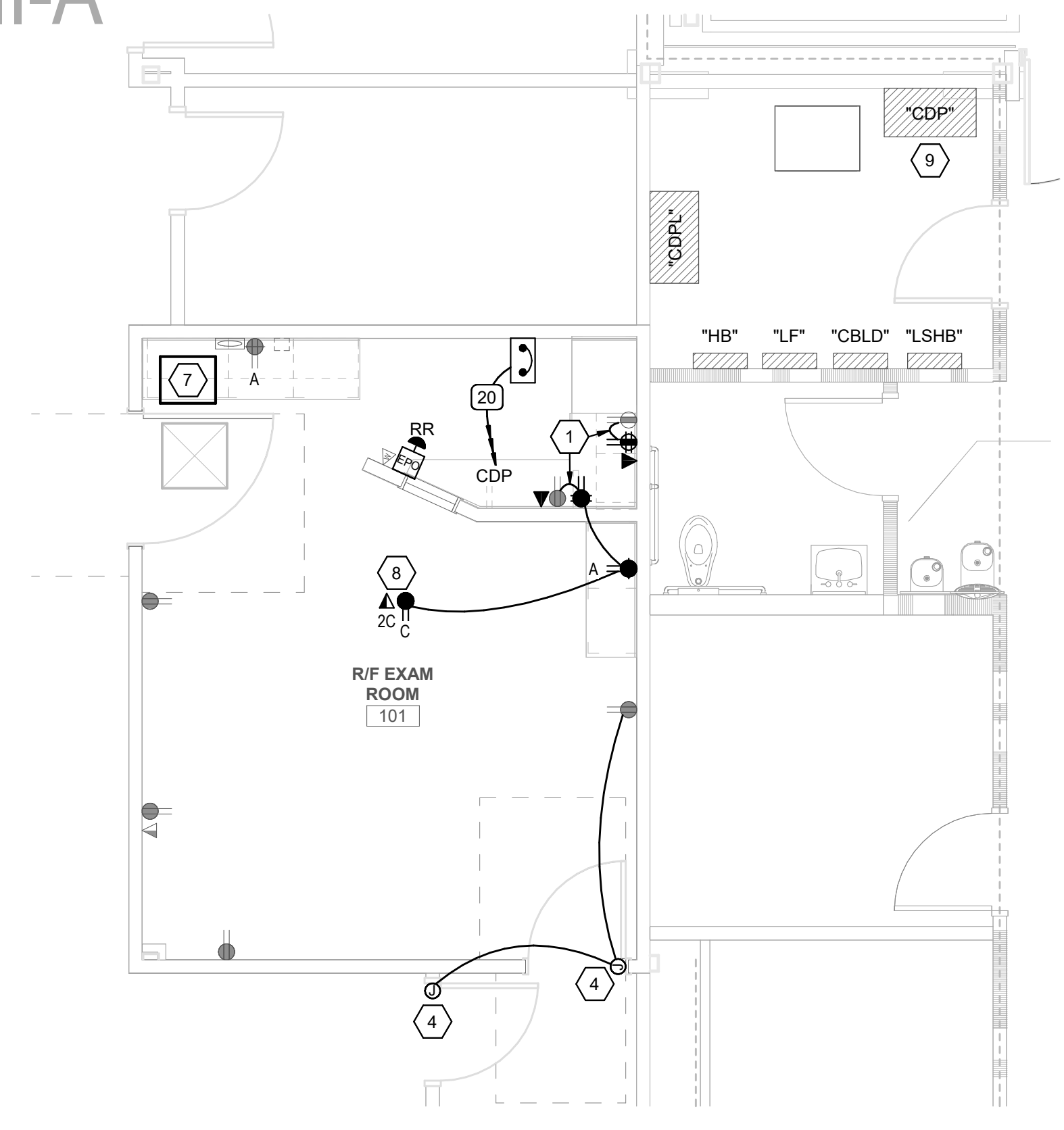
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**LEVEL 1 OVERALL
POWER PLAN**

SHEET NO.
EP100

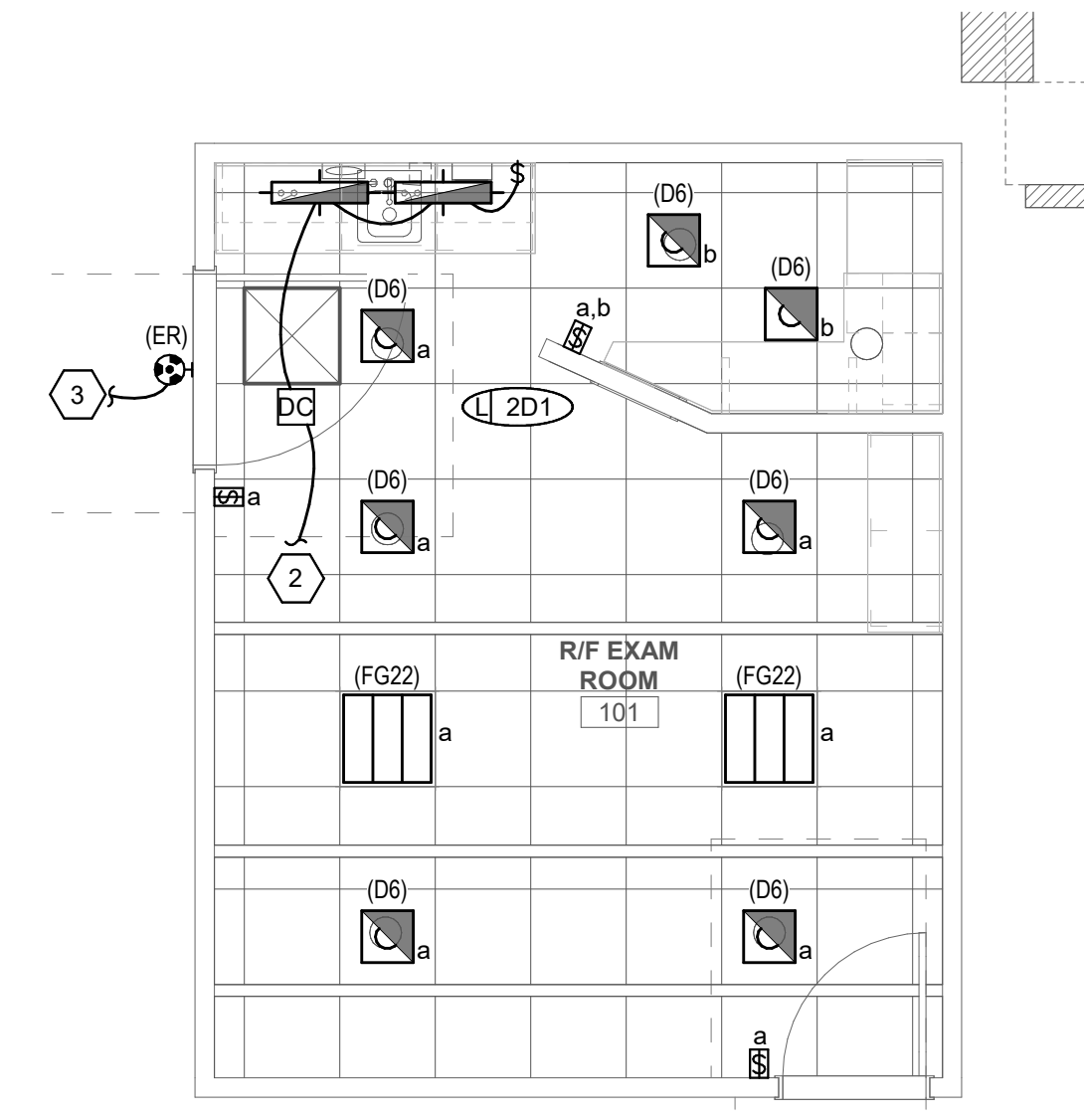
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 TEMP/PLOT VERSION: 21124

CONSTRUCTION TYPE "II-A"

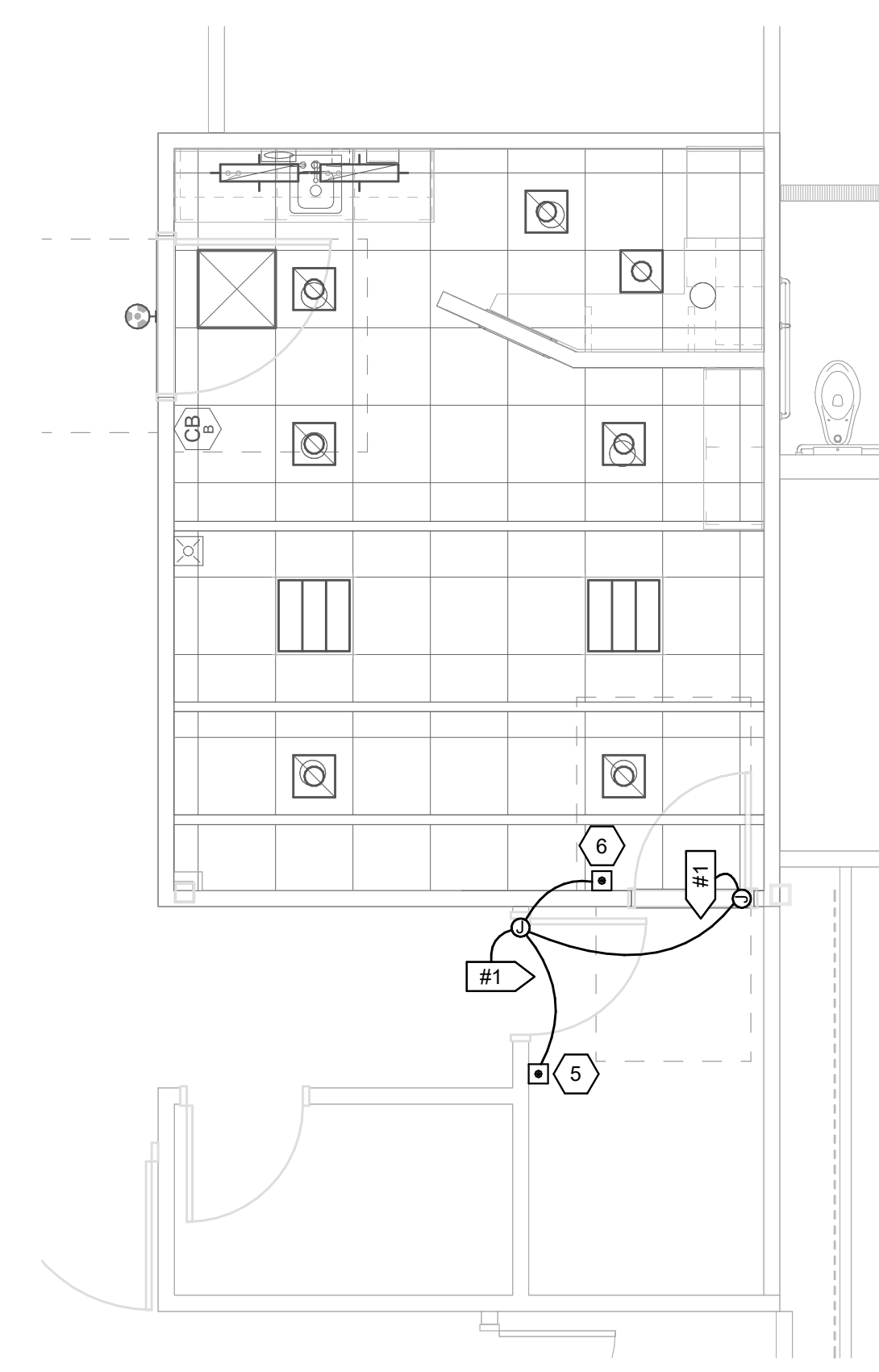
1 LEVEL 1 POWER PLAN
SCALE: 1/4" = 1'-0"



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



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

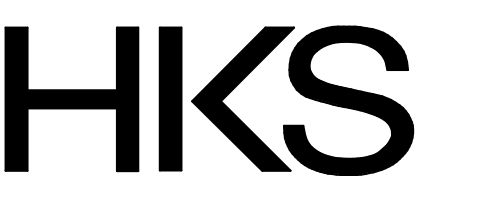


GENERAL SHEET NOTES

- 1 ALL RECEPTACLES WITHIN 6' OF THE EDGE OF A SINK SHALL BE GFCI PROTECTED.
- 2 ALL WIRING IN PATIENT CARE AREAS SHALL MEET THE REQUIREMENTS OF NEC 517.13.
- 3 CONTRACTOR TO REFER TO GE IMAGING DRAWINGS FOR ADDITIONAL RESPONSIBILITIES.
- 4 PROVIDE DEDICATED NEUTRALS FOR ALL BRANCH CIRCUITS.

SHEET KEYNOTES

- 1 CONNECT TO THE EXISTING 120V CIRCUIT FEEDING THIS SPACE.
- 2 CONNECT TO THE EXISTING LIGHTING CIRCUIT THAT PREVIOUSLY FED THIS SPACE.
- 3 CONNECT TO A NEARBY 120V CIRCUIT. REFER TO GE DRAWING FOR ADDITIONAL "IN-USE" LIGHT REQUIREMENTS.
- 4 PROVIDE 120V CIRCUIT TO 24V TRANSFORMER FOR ELECTRICAL LOCKS.
- 5 PROVIDE PUSH BUTTON TO LOCK BOTH PATIENT TOILET DOORS.
- 6 PROVIDE PUSH BUTTON TO UNLOCK PATIENT TOILET DOORS.
- 7 MOUNT THE GE 15KVA TRANSFORMER ON UNISTRUT IN THE CEILING SPACE. PROVIDE A DISCONNECT ADJACENT TO THE EQUIPMENT.
- 8 PROVIDE 120V POWER AND DATA FOR THE BOOM.
- 9 PROVIDE A NEW 100/3P FRS FUSE IN THE EXISTING SIEMENS PANEL CDP.



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CON1-DISCIPLINE
 CON1-COMPANY
 CON1-ADDRESS1
 CON1-ADDRESS2

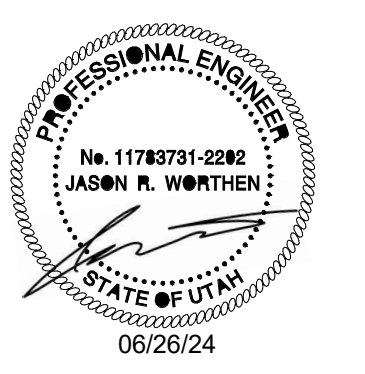
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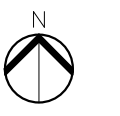
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 PROJECT ADDRESS:

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KEY PLAN



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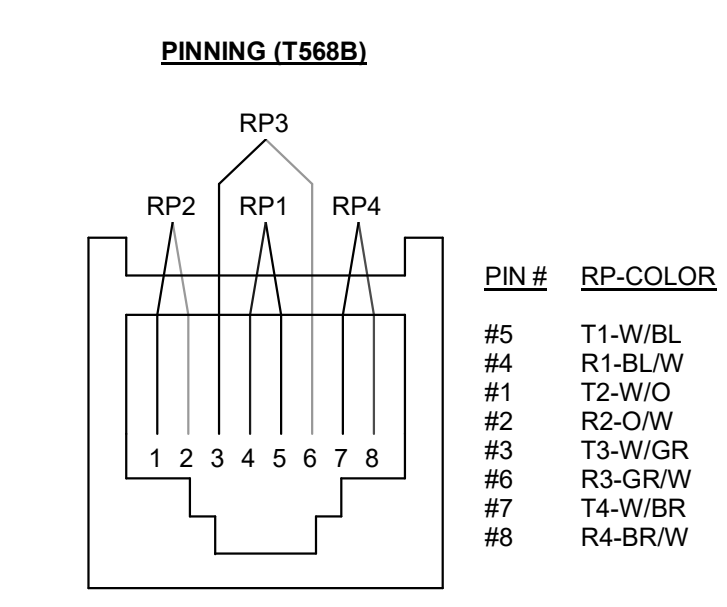
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26651.000
 DATE
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SHEET TITLE
LEVEL 1 ELECTRICAL PLANS

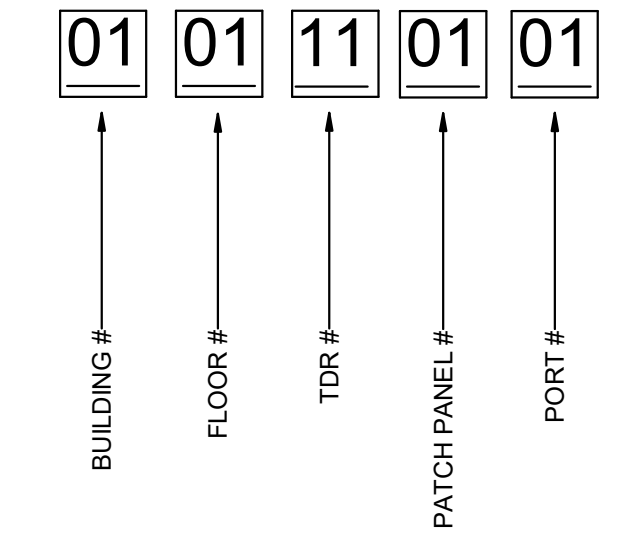
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EP101

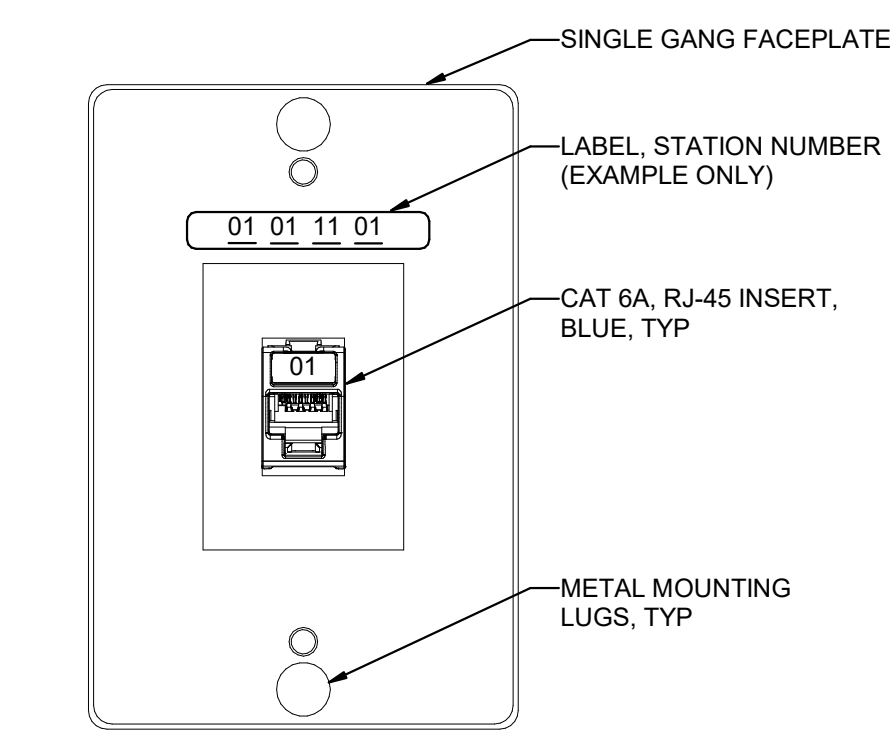
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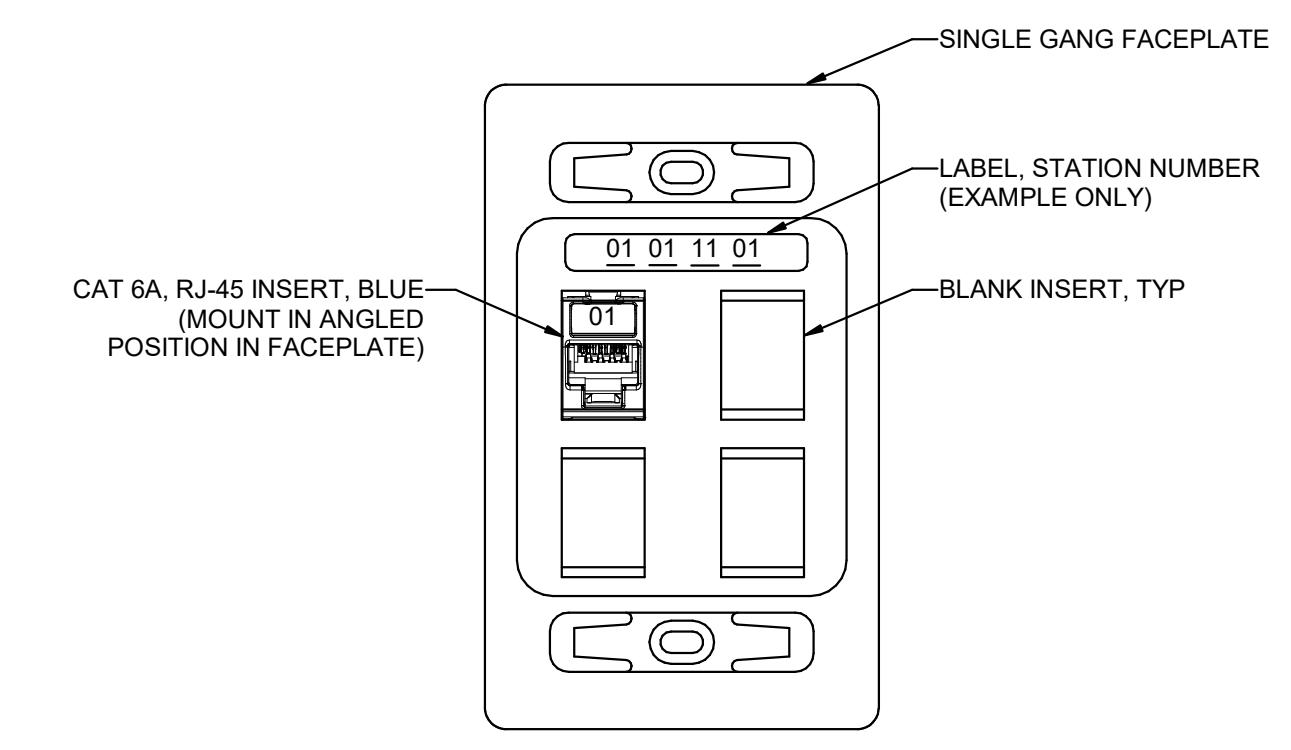
5 TYPICAL VOICE/DATA OUTLET PINNING DETAIL
 SCALE: NTS



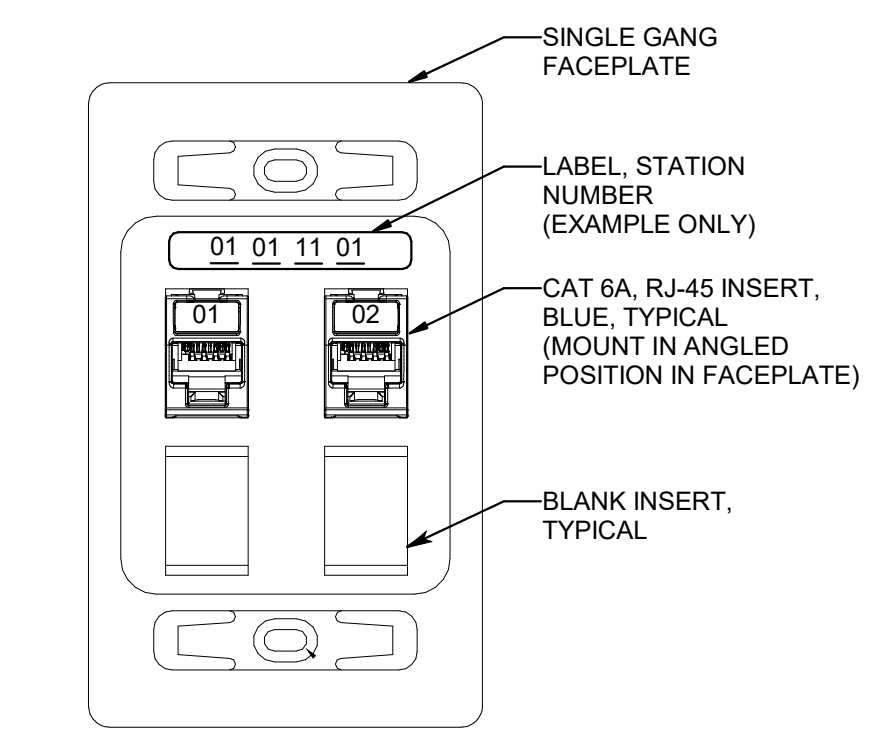
6 TYPICAL CABLE ID EXAMPLE DETAIL
 SCALE: NTS



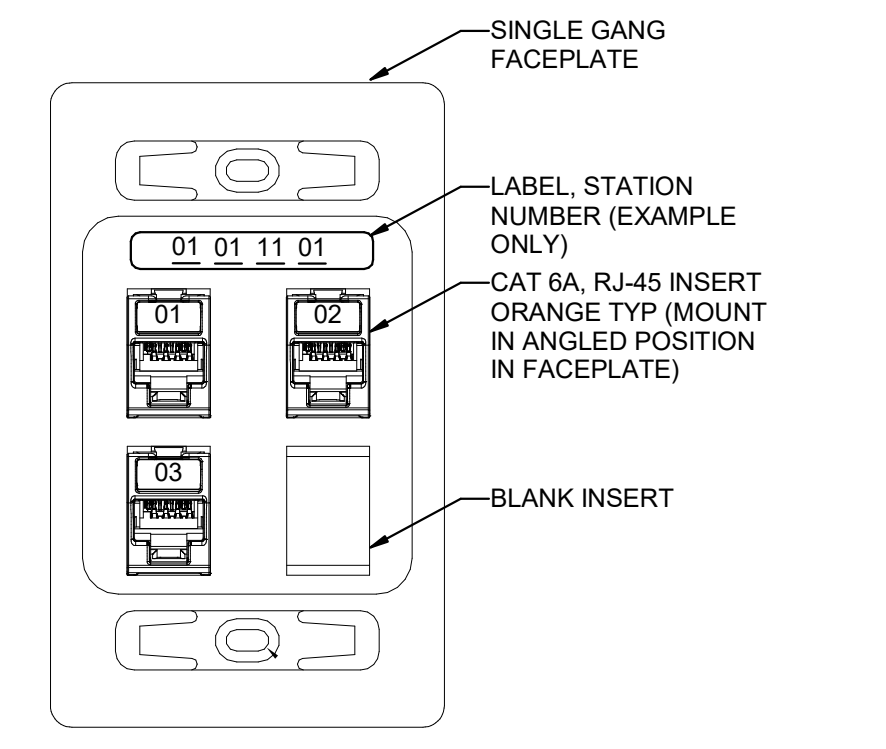
3 TYPICAL 1-PORT WALL PHONE OUTLET
 SCALE: NTS



4 TYPICAL 1-PORT WALL DATA OUTLET
 SCALE: NTS



1 TYPICAL 2-PORT WALL DATA OUTLET
 SCALE: NTS



2 TYPICAL 3-PORT PHYS MON WALL DATA OUTLET
 SCALE: NTS

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KEY PLAN

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HKS PROJECT NUMBER
26651.000
 DATE
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 ISSUE

SHEET TITLE
TELECOM DETAILS

SHEET NO.
EP501

TITLE BLOCK VERSION: 20210830
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CONNECTIVITY REQUIREMENTS

All Digital systems are equipped with Broadband fast Ethernet hardware for Service Diagnostics. The systems equipped with Digital Imaging are capable of placing electronic images on the Hospital image Ethernet Network (DICOM).

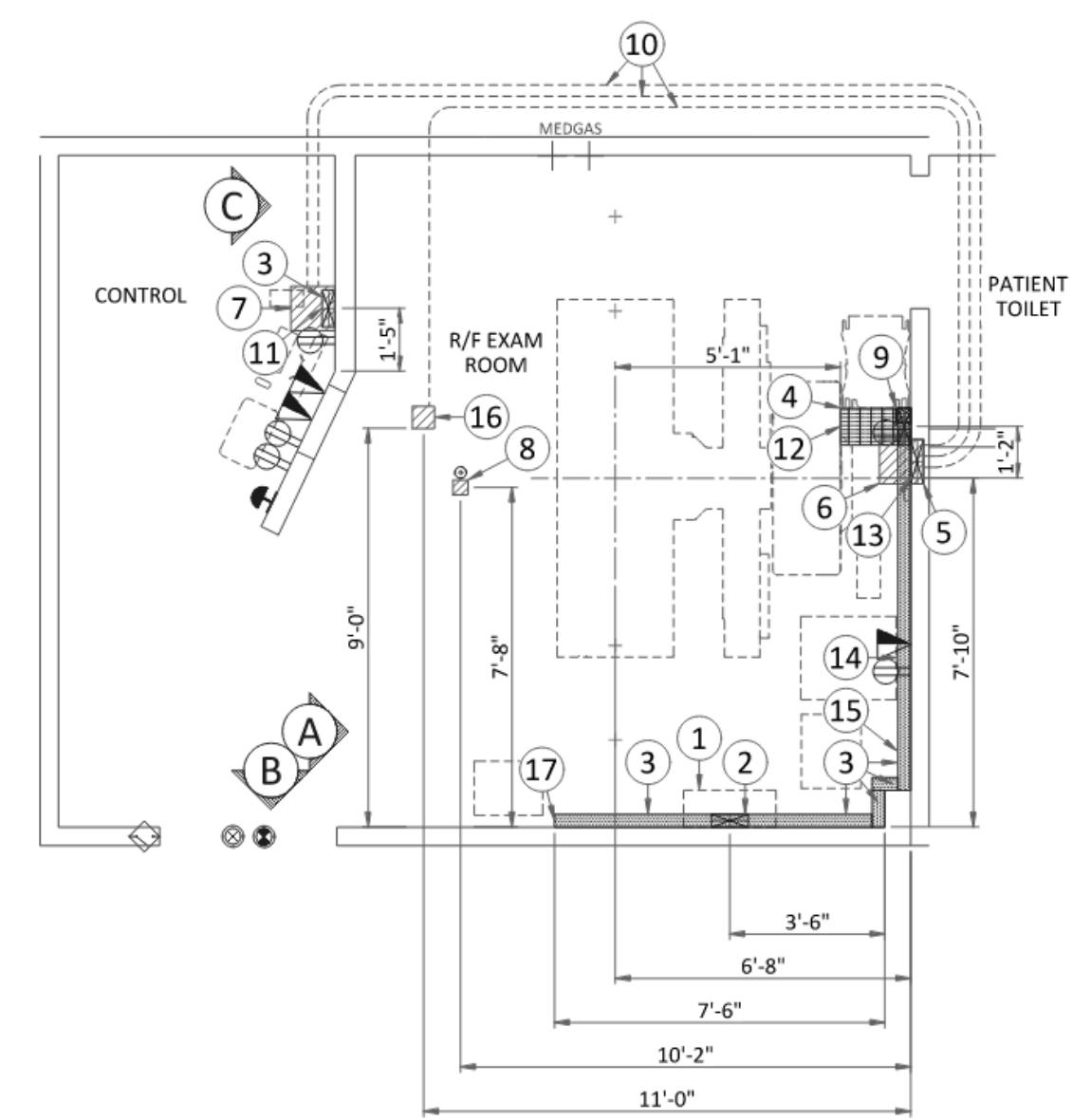
The Digital PC (part of the Digital subsystem) is the connectivity point between the system and the hospital. For a Broadband connection, it is the purchaser's responsibility to provide the connection at the Ethernet port on the Digital PC via a Cat 5 Ethernet cable and the hospital Ethernet connection.

Note: System hardware is rated at 100/1000Mbps transfer rate. Hospital connections must be rated for 100/1000Mbps for optimal performance. One RJ45 Ethernet plus should be present in the room.

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 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 customer's 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.

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Item	Electrical Layout Item List
1	Power Distribution Box (PDB)
2	10' x 3 1/2" (250 x 100) Surface wall duct with minimum 2 dividers
3	10' x 3 1/2" (250 x 100) Surface wall duct with minimum 2 dividers
4	10' x 3 1/2" (250 x 100) Surface floor duct with minimum 2 dividers
5	Existing 12' x 3 1/2" (300 x 100) Flush wall duct with minimum 2 dividers
6	Box above ceiling - size per local code
7	Box above ceiling - size per local code
8	4" x 4" x 4" (100 x 100 x 100) Flush ceiling box (Intercom Microphone)
9	4" x 4" x 4" (100 x 100 x 100) Box attached to duct (TMS Readiness Kit)
10	2 1/2" [64] Conduit above ceiling
11	Grommeted opening (Operator and Intercom Consoles)
12	Grommeted opening (Table)
13	Grommeted opening (Intercom Loudspeaker)
14	Grommeted opening (Digital Systems Cabinet)
15	Grommeted opening (Generator Cabinet)
16	Box above ceiling - size per local code (Monitor)
17	Grommeted opening (Transformer)

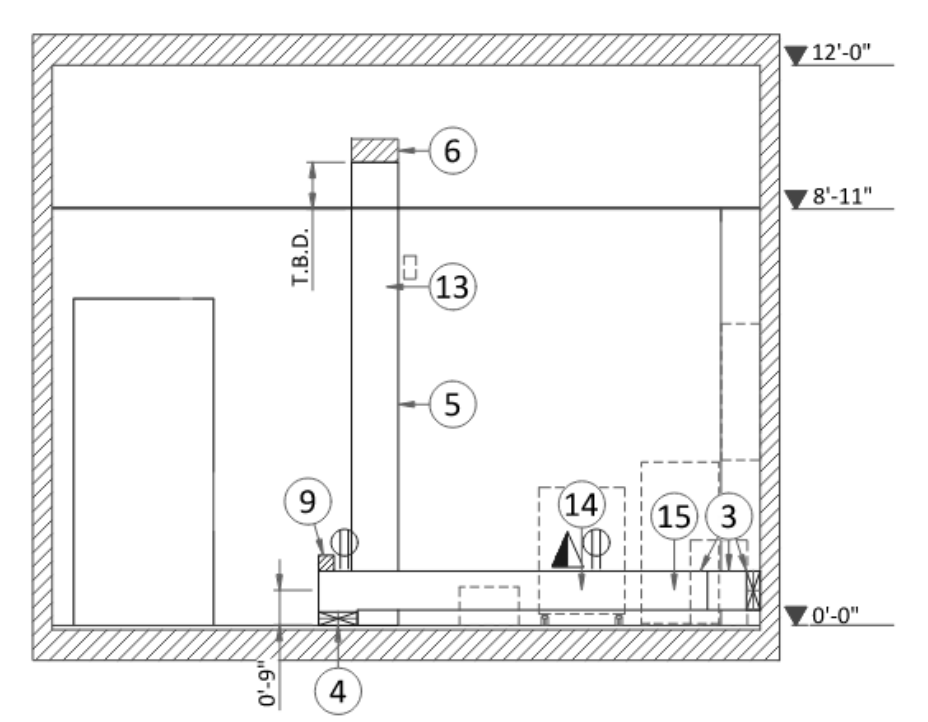
ITEM	QTY	Electrical Outlet Legend
⊕		System emergency off (SEO), (recommended height 1.2m [48"] above floor)
⊗		X-Ray room warning light control panel
⊕		X-Ray ON lamp (L1) - 24V
⊕		Door interlock switch (needed only if required by state/local codes)
⊕		Dupes hospital grade, dedicated wall outlet 120-v, single phase power
⊕		Network outlet

Existing Electrical Note:
Use existing duct/conduits where possible. Additional duct/conduit runs may be necessary if existing system is inadequate in size and/or location for this installation. Verify existing size and location.

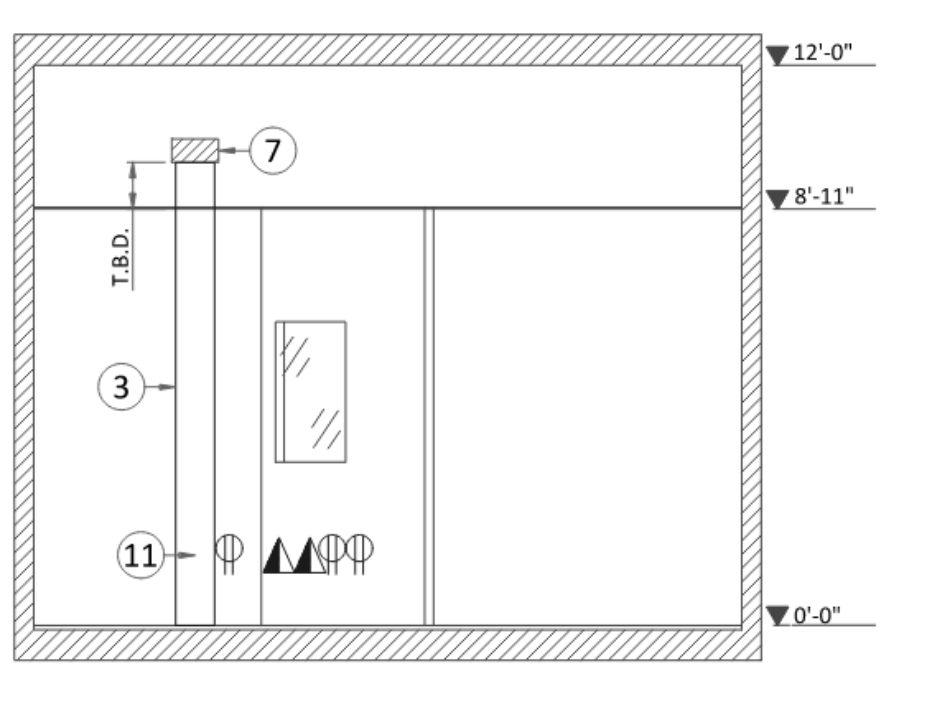
Cable Length Note:
Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).

Additional Conduit Runs (Contractor Supplied and Installed)				
From (Bubble # / Item)	To (Bubble # / Item)	Qty	Size	
			In.	mm
3 phase power	1 Power Distribution Box	1	As req'd	As req'd
1 Power Distribution Box	Emergency off	1	1/2"	16
	OTS On/off switch	1	1/2"	16
Warning light		1	1/2"	16
1 phase power	Warning light control	1	As req'd	As req'd
	Door Switch	1	1/2"	16
6 Generator	Intercom Loudspeaker	1	1	25
	Intercom Microphone	1	1	25
7 Intercom Console	Intercom Loudspeaker	1	1	25
	Intercom Microphone	1	1	25

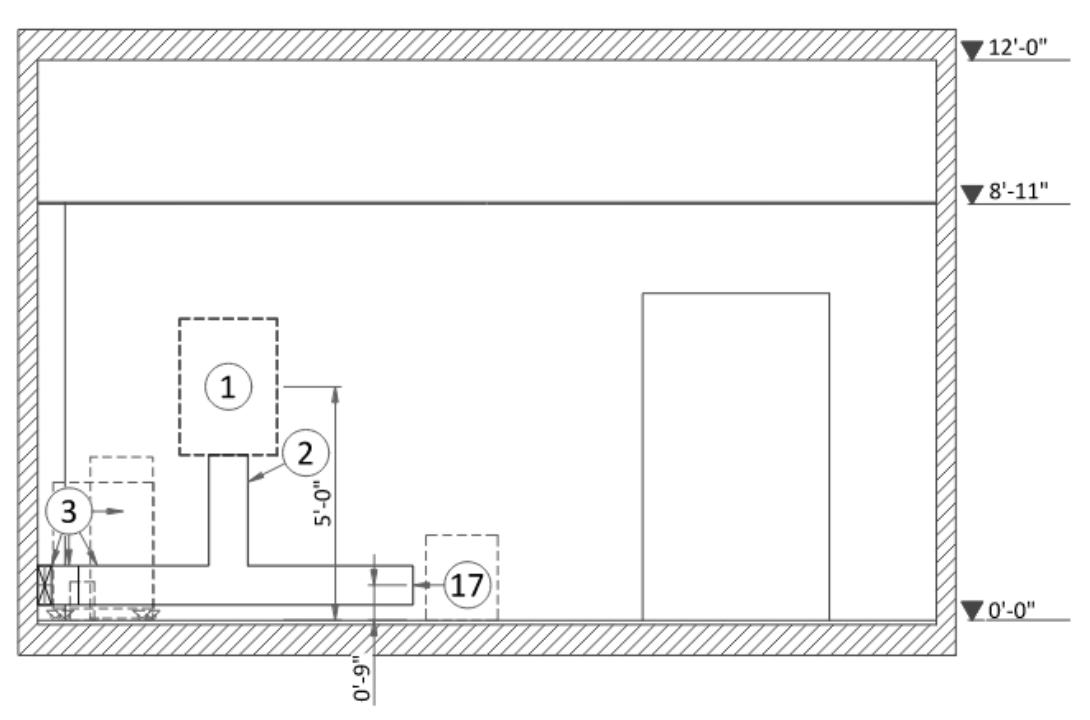
Heber Valley Hospital | PRECISION 180 | RF-M319702-FIN-00-B.DWG | 11/4"-1'-0" Rev B | Date: 27/Feb/2024 | E2 - Electrical Layout | 13/16



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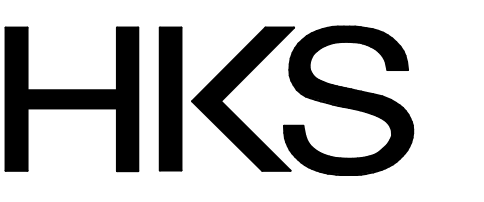


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B

Heber Valley Hospital | PRECISION 180 | RF-M319702-FIN-00-B.DWG | 11/4"-1'-0" Rev B | Date: 27/Feb/2024 | E3 - Electrical Elevations | 14/16



ARCHITECT
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222 MAIN ST, ST #230
SALT LAKE CITY, UTAH 84101

CON1-DISCIPLINE
CON1-COMPANY
CON1-ADDRESS1
CON1-ADDRESS2

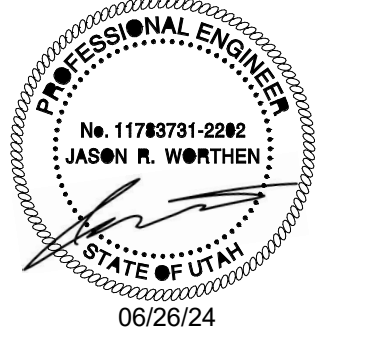
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CON3-DISCIPLINE
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CON3-ADDRESS1
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CON4-DISCIPLINE
CON4-COMPANY
CON4-ADDRESS1
CON4-ADDRESS2

HEBER FLUORO REPLACEMENT
 PROJECT ADDRESS:

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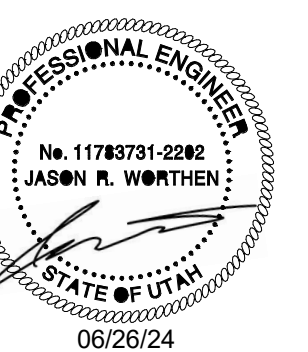
KEY PLAN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26651.000
DATE
06/26/24
ISSUE

SHEET TITLE
GE DRAWINGS

SHEET NO.
EP502



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REVISION NO.	DESCRIPTION	DATE

POWER REQUIREMENTS

GENERATOR TYPE	65 kW	80 kW
POWER SUPPLY	Wye 3 PHASE + G 480V ±10%	
MAINS FREQUENCY	50/60 Hz ± 2%	
LINE INPUT REACTIVE POWER (PEAK)	95 kVA	119 kVA
LINE INPUT ACTIVE POWER	65 kW	80 kW

- Line supply should come into a power distribution box (PDB) containing the protective units and controls. The PDB does not require a neutral line.
- 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 PDB.

SUPPLY CHARACTERISTICS

- Power input must be separated 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.

GROUND SYSTEM

- Ground resistance lower than 2 Ohms is suggested.
- 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 units are located.

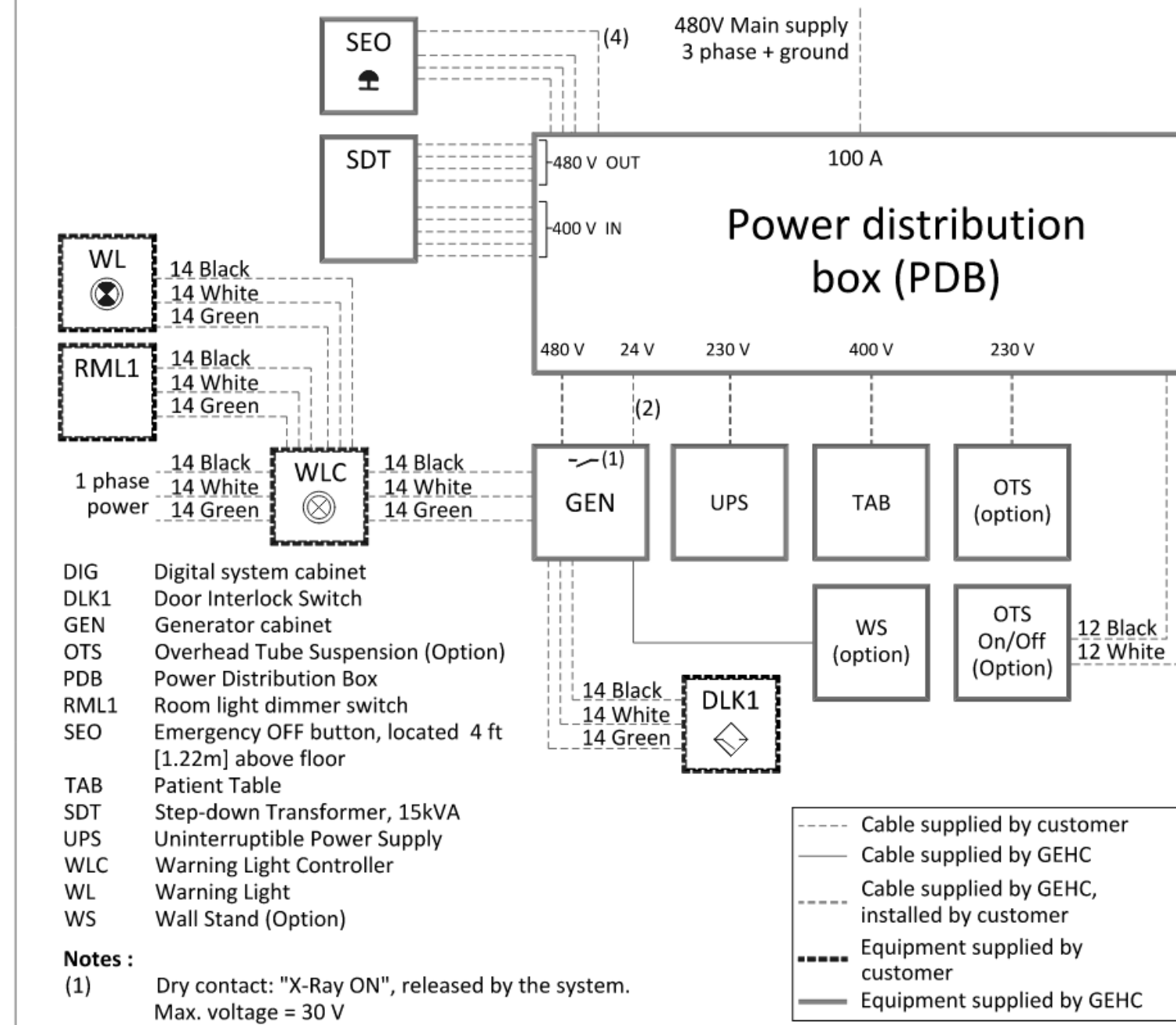
CABLES

- Power and cable installation must comply with the distribution diagram below.
- All cables must be isolated and flexible, cable color codes must comply with standards for electrical installation.
- Case PDB furnished by GE: The cables for signals and remote control (Y, SEO, L...) will go to PDB 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.

POWER DISTRIBUTION



- DIG Digital system cabinet
- DLK1 Door Interlock Switch
- GEN Generator cabinet
- OTS Overhead Tube Suspension (Option)
- PDB Power Distribution Box
- RML1 Room light dimmer switch
- SEO Emergency OFF button, located 4 ft [1.22m] above floor
- TAB Patient Table
- SDT Step-down Transformer, 15kVA
- UPS Uninterruptible Power Supply
- WLC Warning Light Controller
- WL Warning Light
- WS Wall Stand (Option)

Notes:

- Dry contact: "X-Ray ON", released by the system. Max. voltage = 30 V
- H07RN-F cable with 6.56 ft (2m) extra length on the floor behind the back of generator cabinet (only if required per local requirements)
- Max lug size 8 AWG
- Fourth wire only needed with UPS option for USA

INPUT VOLTAGE	MINIMUM FEEDER WIRE SIZE IN mm² AND (AWG)							
	15m (50')	30m (100')	46m (150')	61m (200')	77m (250')	92m (300')	107m (350')	122m (400')
480 VAC	*35 (3)	*35 (3)	*35 (3)	*35 (3)	35 (2)	50 (1)	70 (1/0)	70 (1/0)

* MINIMUM WIRE SIZE FOR CIRCUIT BREAKER, BASED ON RECOMMENDED OVERCURRENT PROTECTION

GENERAL NOTES

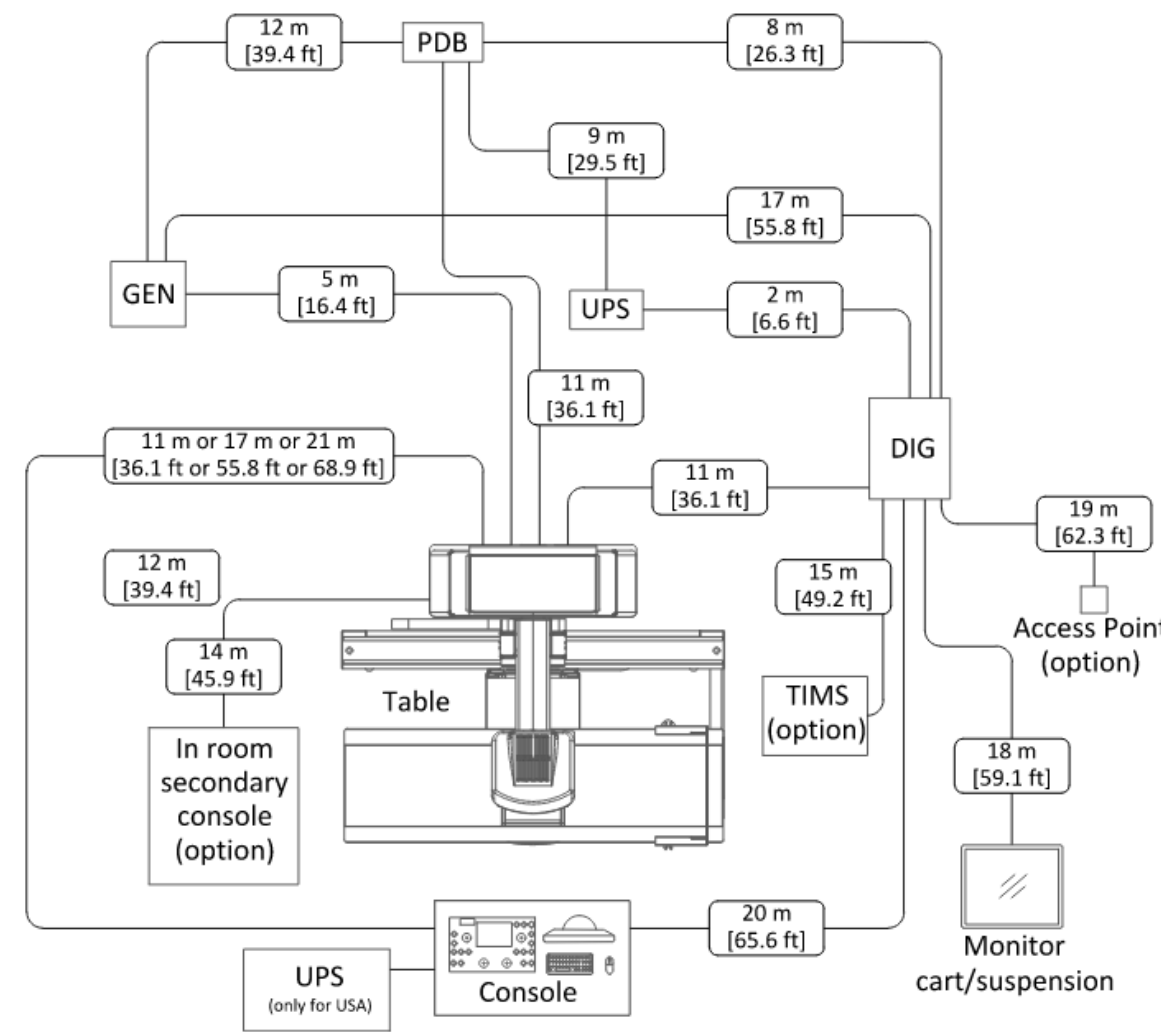
- In all cases qualified personnel must verify that the feeder (at the point of take-off) and the run to the Radiology system meet all the requirements stated in the FIM.
- For a single unit installation, the minimum transformer size is 112.5kva, synthesized power feed is not acceptable. Maximum allowable transient voltage excursions are 2.5% of rated line voltage at a maximum duration of 5 cycles and frequency of 10 times per hour.
- Ground wire will be same size as power cable. Ground will run from the equipment back to the power source/main grounding point and always travel in the same conduit with the feeders and neutral. Neutral must be terminated inside the main disconnect panel and not at any GE cabinet.

INTERCONNECTION

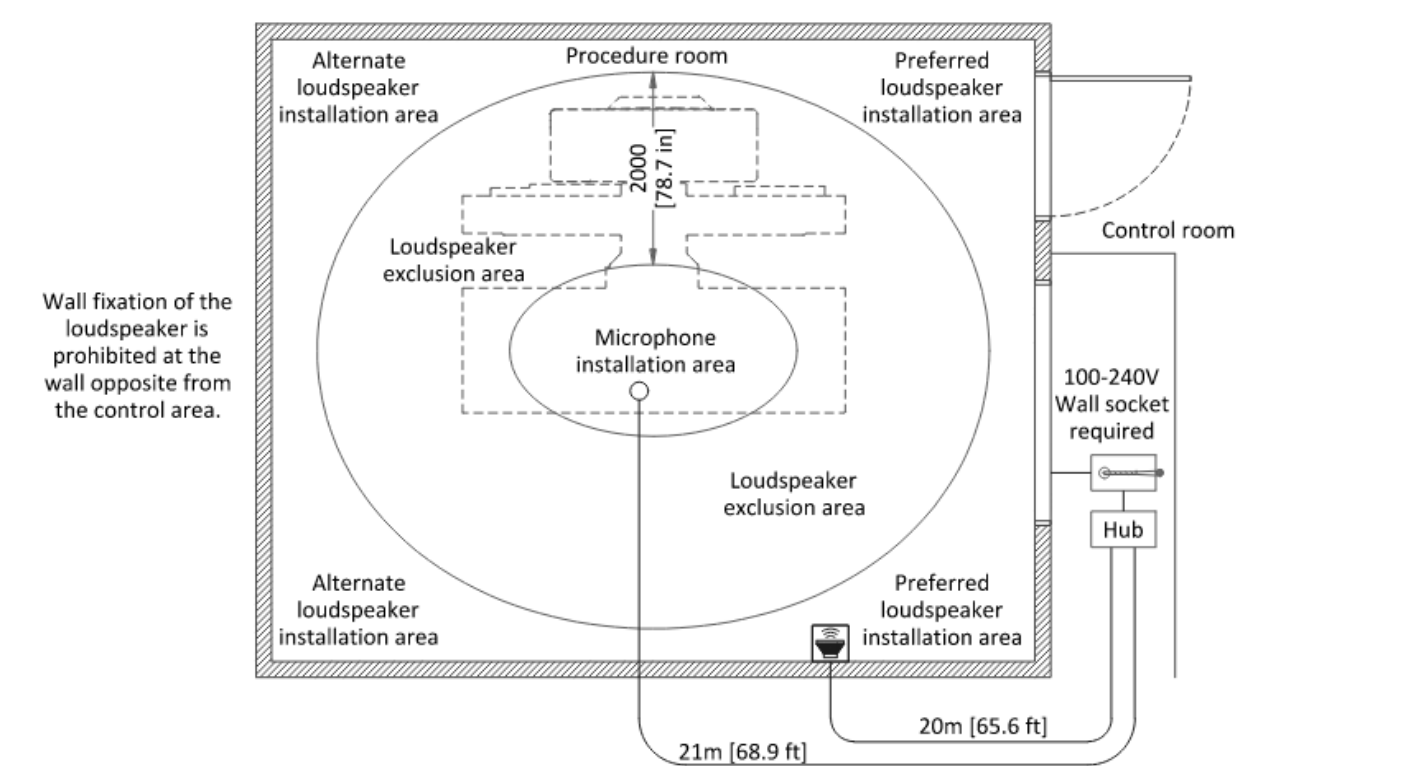
STANDARD CONFIGURATION

LEGEND

- DIG Digital System Cabinet
- GEN Generator Cabinet
- PDB Power Distribution Box
- UPS Uninterruptible Power Supply



CLARSON PUBLIC IV INTERCOM

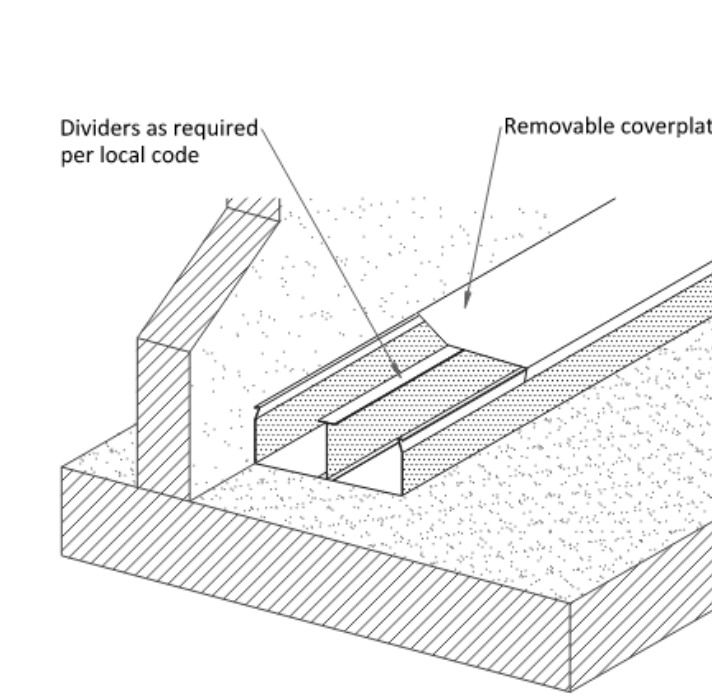


Wall fixation of the loudspeaker is prohibited at the wall opposite from the control area.

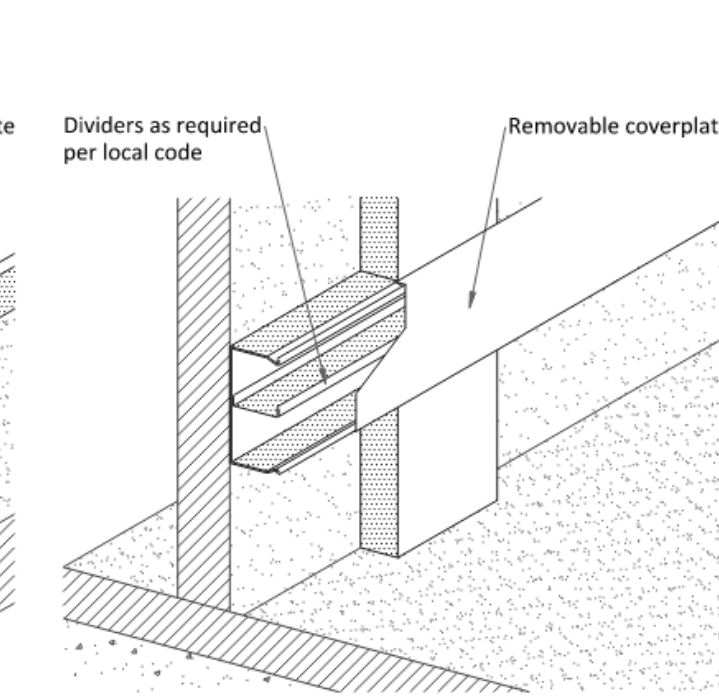
Cables and fasteners are supplied with the intercom kit and installed by the GE FSE. Final position of ceiling microphone to be determined by GE FSE at time of installation to ensure that no collision hazards are possible.

TYPICAL CABLE MANAGEMENT

DUCT ON THE FLOOR



WALL DUCT



NOT TO SCALE

TITLE BLOCK VERSION: 20210830
MODEL: C:\Bentley\OneDrive\SPECTRUM\ENGINEERS\Documents\24242\EP601.dwg
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SHEET KEYNOTES

1. GROUNDING CONDUCTOR IS THE SAME SIZE AS CURRENT CARRYING CONDUCTOR.



ARCHITECT
HKS ARCHITECTS, INC.
222 MAIN ST, ST #230
SALT LAKE CITY, UTAH 84101

CON1-DISCIPLINE
CON1-COMPANY
CON1-ADDRESS1
CON1-ADDRESS2

CON2-DISCIPLINE
CON2-COMPANY
CON2-ADDRESS1
CON2-ADDRESS2

CON3-DISCIPLINE
CON3-COMPANY
CON3-ADDRESS1
CON3-ADDRESS2

CON4-DISCIPLINE
CON4-COMPANY
CON4-ADDRESS1
CON4-ADDRESS2

ALUMINUM CONDUCTOR AND CONDUIT SCHEDULE

SYM	AMP	CONDUIT SIZE	CONDUCTOR(NOTE 1)			IG	SE	NOTES
			QTY	SIZE	G			
[21] A	135	2	3	2/0	4	1/0	4	2,7
[22] A	135	2	4	2/0	4	1/0	4	2,7
[23] A	155	2	3	3/0	4	1/0	4	2,7
[24] A	155	2	4	3/0	4	1/0	4	2,7
[25] A	180	2	3	4/0	4	1/0	2	2,7
[26] A	180	2.50	4	4/0	4	1/0	2	2,7
[27] A	205	2.50	3	250	4	1/0	2	2,7
[28] A	205	3	4	250	4	1/0	2	2,7
[29] A	230	2.50	3	300	2	1/0	1/0	2,7
[30] A	230	3	4	300	2	1/0	1/0	2,7
[31] A	250	3	3	350	2	2/0	1/0	2,7
[32] A	250	3	4	350	2	2/0	1/0	2,7
[33] A	310	3	3	500	1	3/0	1/0	2,7
[34] A	310	4	4	500	1	3/0	1/0	2,7
[35] A	360	2 EA 2.50	3	4/0	1	4/0	3/0	2,7
[36] A	360	2 EA 3	4	4/0	1	4/0	3/0	2,7
[37] A	410	2 EA 2.50	3	250	1/0	4/0	3/0	2,7
[38] A	410	2 EA 2.50	4	250	1/0	4/0	3/0	2,7
[39] A	500	2 EA 3	3	350	1/0	300	3/0	2,4,7
[40] A	500	2 EA 3	4	350	1/0	300	3/0	2,4,7
[41] A	620	2 EA 3	3	500	3/0	300	3/0	2,4,7
[42] A	620	2 EA 4	4	500	3/0	300	3/0	2,4,7
[43] A	770	2 EA 4	3	750	3/0	300	4/0	2,4,7
[44] A	770	2 EA 4	4	750	3/0	300	4/0	2,4,7
[45] A	810	3 EA 4	3	400	4/0	300	250	2,4,7
[46] A	810	3 EA 4	4	400	4/0	300	250	2,4,7
[47] A	1000	4 EA 3	3	350	4/0	300	250	4,7
[48] A	1000	4 EA 3	4	350	4/0	300	250	4,7
[49] A	1080	4 EA 4	3	400	250	300	250	4,7
[50] A	1080	4 EA 4	4	400	250	300	250	4,7
[51] A	1240	4 EA 4	3	500	350	300	250	4,7
[52] A	1240	4 EA 4	4	500	350	200	250	4,7
[53] A	1700	5 EA 4	4	600	400	350	250	4,7
[54] A	2040	6 EA 4	4	600	400	500	250	4,7
[55] A	2695	7 EA 4	4	750	600	770	750	4,7
[56] A	3080	8 EA 4	4	750	600	750	750	4,7
[57] A	4235	11 EA 4	4	750	800	750	750	4,7
[58] A							6	
[59] A							6	

CONDUCTOR AND CONDUIT SCHEDULE NOTES

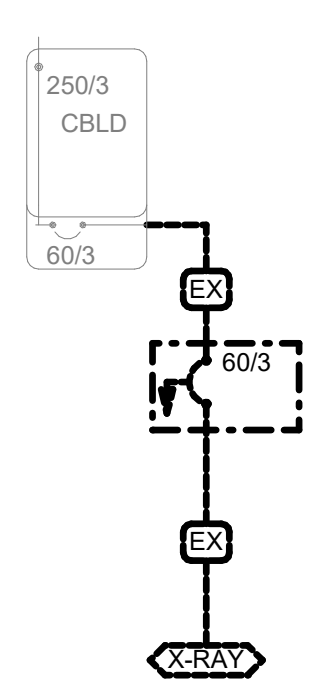
- CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
- PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
- PROVIDE #10 NEUTRALS FOR MULTIWIRED BRANCH CIRCUITS SERVING COMPUTERS.
- GROUND CONDUCTOR SHALL BE OMITTED BETWEEN THE UTILITY TRANSFORMER AND THE FIRST OVERCURRENT PROTECTIVE DEVICE.
- 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 IGHH SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.
 - "IG": INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR) SCHEDULED ALONG WITH GROUND OF EQUIPMENT GROUND CONDUCTOR.
 - "SBJ": SUBSTITUTE "SBJ" CONDUCTOR FOR "G" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE SYSTEM BONDING JUMPER OF THE SEPARATELY DERIVED SYSTEM.
- ALUMINUM CONDUCTORS NOT TO BE USED FOR CONNECTION TO MOTORS OR MOTOR DRIVEN EQUIPMENT.

CONDUCTOR AND CONDUIT SCHEDULE

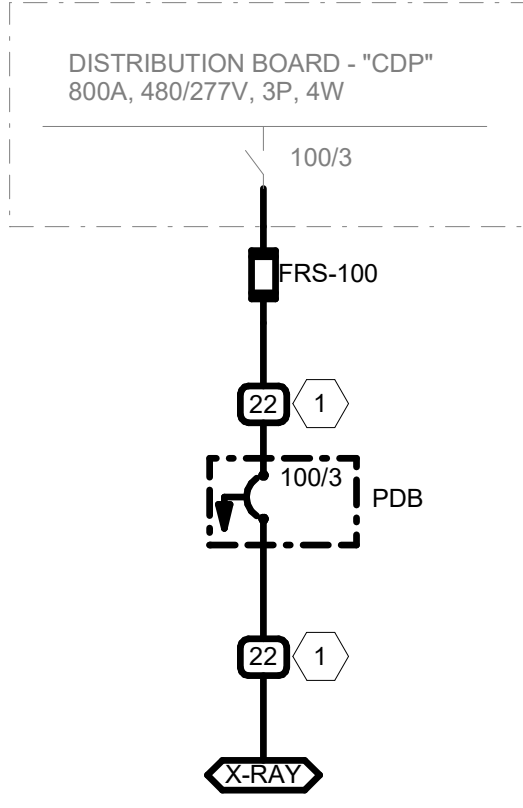
SYM	AMP	CONDUIT SIZE	CONDUCTOR(NOTE 1)			IG	SE	NOTES
			QTY	SIZE	G			
[1]	20	.75	2	12	12	12	8	2
[2]	20	.75	3	12	12	12	8	2,3
[3]	20	.75	4	12	12	12	8	2,3
[4]	30	.75	2	10	10	10	8	2
[5]	30	.75	3	10	10	10	8	2
[6]	30	.75	4	10	10	10	8	2
[7]	40	1	2	8	10	8	6	2
[8]	40	1	3	8	10	8	6	2
[9]	40	1	4	8	10	8	6	2
[10]	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 3.50	4	400	4/0	4/0	4/0	4
[54]	2010	6 EA 3.50	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]		3 EA 4					6	
[59]		6					6	
[60]		8 EA 4					6	

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 MULTIWIRED BRANCH CIRCUITS SERVING COMPUTERS.
- GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
- WHEN SYMBOL SUBSCRIPT INDICATES "IG", INCLUDE "IG" OR INSULATED GROUND CONDUCTOR SCHEDULED ALONG WITH GROUND OR EQUIPMENT GROUND CONDUCTOR. WHEN SYMBOL SUBSCRIPT INDICATES "SE", SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEMS.
- RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.



1 DEMOLITION ONE-LINE DIAGRAM
SCALE: NTS



2 NEW ONE-LINE DIAGRAM
SCALE: NTS

HEBER FLUORO REPLACEMENT

SEAL & SIGNATURE

SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
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801-328-5155
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KEY PLAN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26651.000
DATE
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ISSUE

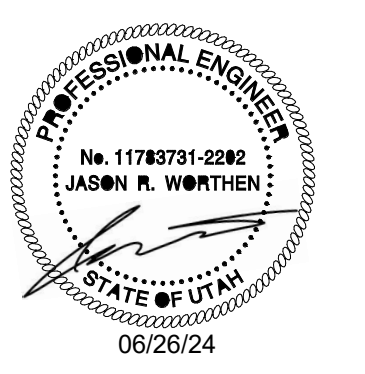
SHEET TITLE
ONE-LINE DIAGRAM

SHEET NO.
EP601

HEBER FLUORO
REPLACEMENT

PROJECT ADDRESS:

SEAL & SIGNATURE



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KEY PLAN

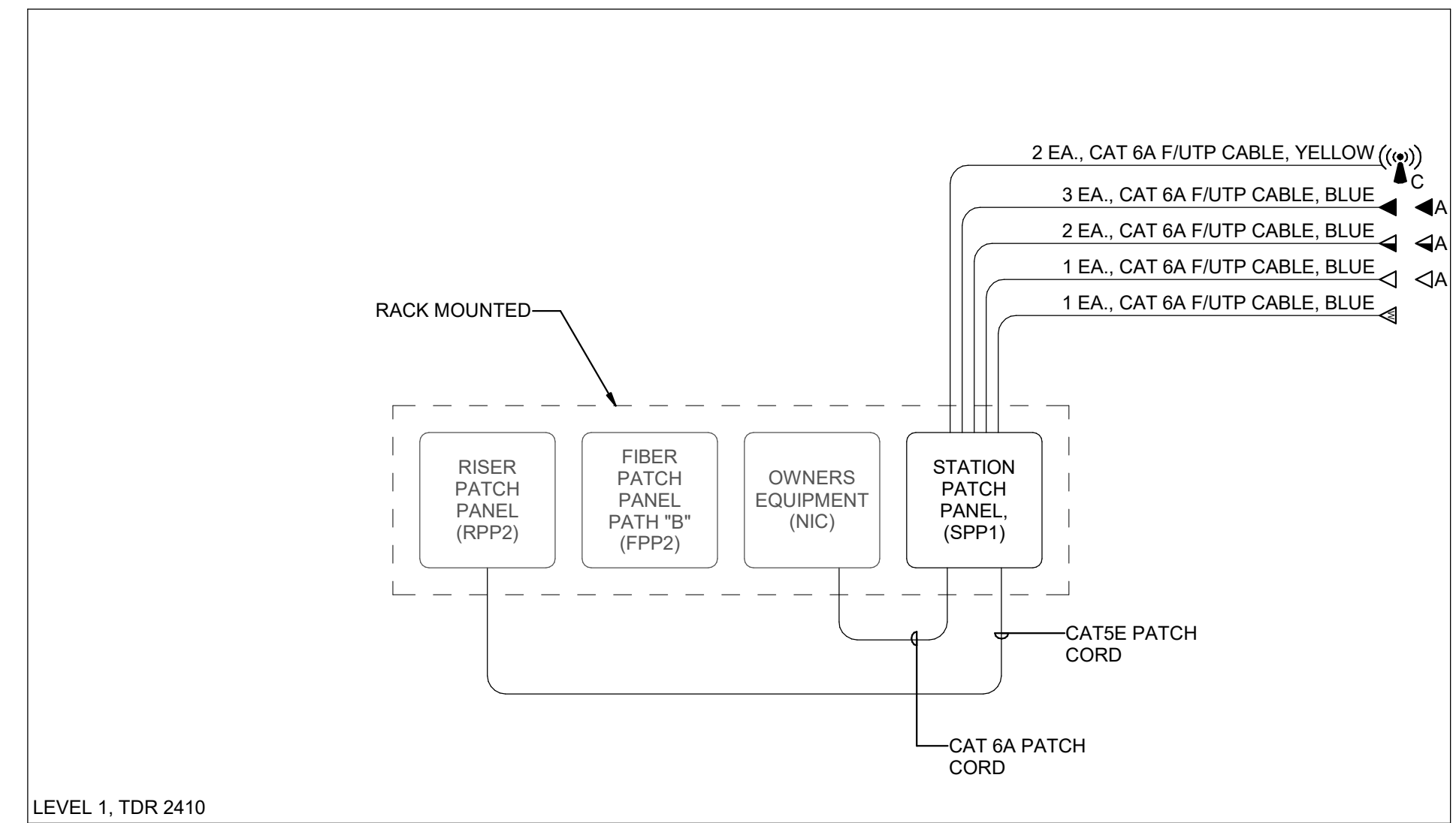
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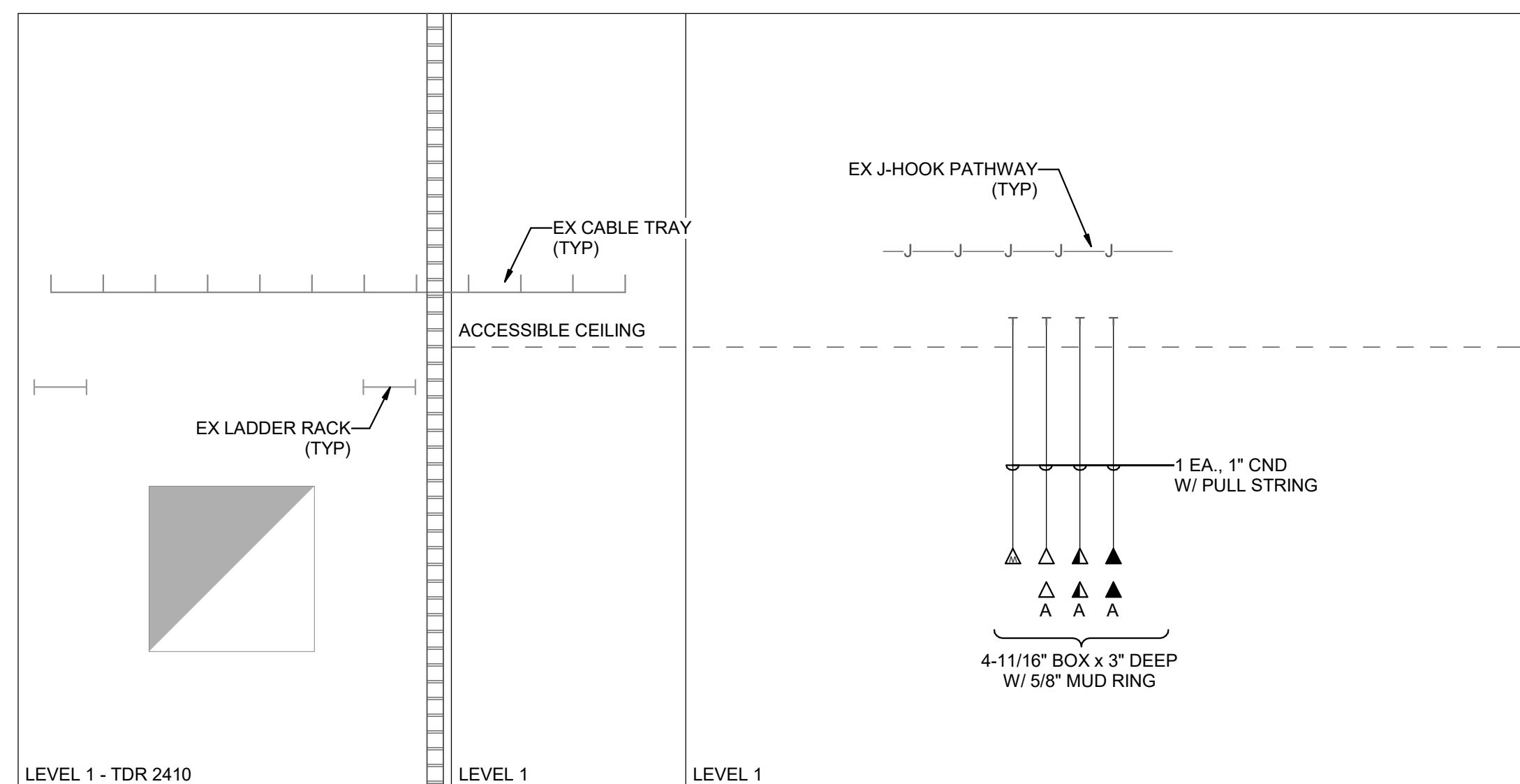
SHEET TITLE
TELECOM RISER DIAGRAMS

SHEET NO.

EP602



1 TELECOM CABLE RISER DIAGRAM
SCALE: 1/8" = 1'-0"

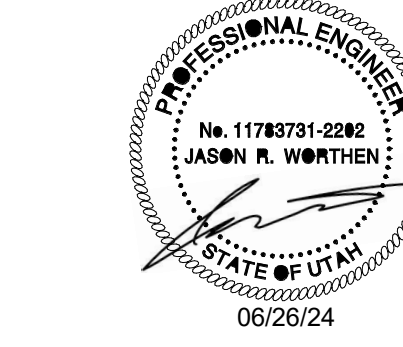


2 TELECOM CONDUIT RISER DIAGRAM
SCALE: 1/8" = 1'-0"

LIGHTING/SPACE CONTROL TYPE SCHEDULE																				
WIRING LEGEND	APPROVED MANUFACTURERS	LIGHTING CONTROL ID	GENERAL NOTES						GENERAL NOTES											
_____ LINE VOLTAGE WIRING - - - - - 0-10V WIRING - - - - - CATSE CABLING _____ WIRING BY OTHERS ○-○ TWP 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	
ZD1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	-	15	RELAY CLOSED ON OCCUPANCY	-	-	TOGGLE PRESS: TOP-ON, PRESS: BOTTOM-OFF, HOLD: TOP-RAISE, HOLD: BOTTOM-OFF/LOWER	FUNCTION: PRESET SCENE #01 ZONE "a" 75% LABEL ID: "PRE #1"	FUNCTION: PRESET SCENE #02 ZONE "b" 75% LABEL ID: "PRE #2"	FUNCTION: PRESET SCENE #03 ZONE "a" 0% LABEL ID: "ZONE a"	FUNCTION: PRESET SCENE #04 ZONE "b" 0% LABEL ID: "ZONE b"	-	-	-	-	-	-

INTERIOR LIGHTING FIXTURE SCHEDULE										
GENERAL NOTES										
1. 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. 2. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES. 3. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION. 4. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. 5. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS. 6. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER. 7. 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.										
ID	DESCRIPTION	SIZE (NOMINAL)	DELIVERED DIRECT LUMENS	DELIVERED INDIRECT LUMENS	COLOR TEMP	CRI	TYPE	VOLTAGE	WATTS	MANUFACTURER (CATALOG SERIES)
(D6)	DESCRIPTION: 6" ROUND, RECESSED LED DOWNLIGHT, SEMI-SPECULAR REFLECTOR MOUNTING: CEILING, RECESSED FINISH: WHITE TRIM FINISH OPTICS: - OPTIONS: - EM: -	LENGTH: - WIDTH: - DEPTH: - DIAMETER: 6" - 6"	1,500		3500K		0-10V DIMMING (1%)	120/277	19	GOTHAM (EVO 35/15 AR LSS MWD MVOLT G21 TRW) HALO (HCS15D010HM612835 61MDHW) LIGHTOLIER (BRNPRDL1583CCZ10U)
(ER)	DESCRIPTION: X-RAY IN USE LIGHT MOUNTING: WALL FINISH: SCBA OPTICS: - OPTIONS: - EM: -	LENGTH: - WIDTH: - DEPTH: -			RED		NO DIMMING	120/277	3	KENALL (METMSU MW R X-RAY IN USE DT) LITHONIA (LOM P W 1 R 120-277 SW16 X-RAY IN USE) CHLORIDE (AMS GW XRAY IN USE RFR) EMERGENSEE (SEEXEL-1-G-A-CUST OM-XRAY IN USE)
(FG22)	DESCRIPTION: 2' X 2' LED FLAT PANEL, GRID LAY-IN MOUNTING: CEILING, RECESSED FINISH: SCBA OPTICS: - OPTIONS: - EM: -	LENGTH: 2' - 0" WIDTH: 2' - 0" DEPTH: -	3,400		3500K		0-10V DIMMING (1%)	120/277	40	DAYBRITE (2FP238L840WDSUNVDIM) LITHONIA (EPANL) TRULY GREEN SOLUTIONS (882440-35-S-F)
(UC2)	DESCRIPTION: 2' LED UNDERCABINET LIGHT MOUNTING: SURFACE FINISH: SCBA OPTICS: - OPTIONS: - EM: -	LENGTH: 2' - 0" WIDTH: - DEPTH: -	600		3500K		ELV DIMMING	120/277	8	DAY-BRITE (LINC5100E-L28-935-UNV-WHG-DIM) KENALL (AUCLED-1-MW-11L35K-24-277) AIREY-THOMPSON (13HC-A-35K-24-2-3-D11) KELVIX (UC22 3040 010V 120/277 WH)

HEBER FLUORO REPLACEMENT



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801-328-5151
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KEY PLAN

REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
26651.000
DATE
06/26/24
ISSUE

SHEET TITLE
LIGHTING SCHEDULES

SHEET NO.
EL601

TITLE BLOCK VERSION: 20210830
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