LL-2 Mechanical Piping Plan

SCALE: 1/4" = 1'-0"

1. STACK PIPING AND ROUTE CHILLED WATER PIPES ALONG SIDE EXISTING STACKED PIPING.

ROUTE CHILLED WATER PIPING ALONG EXISTING

CONCRETE WALL. MAKE CONNECTIONS TO CHILLER PER MANUFACTURER'S RECOMMENDATIONS. PIPING

TO BE COPPER, INSULATED WITH ALUMINUM JACKET RATED FOR EXTERIOR USE. NEW CHILLER PROVIDED BY MRI SUPPLIER AND

SEISMIC REQUIREMENTS FOR 1P = 1.5. ROUTE CHILLED WATER ABOVE EXISTING, REMOVE, UPDATE, AND REPLACE EXISTING METAL

CHILLED WATER PIPING RISE ALONG WITH EXISTING CHILLED WATER PIPE. SHAFT TO BE ADAPTED TO FIT NEW PIPING, SEE

FIELD VERIFY AND COORDINATE PIPE ROUTING THROUGH THE CEILING SPACE.

INSTALL CHILLER WITH FRONT, OR AIRFLOW SIDE,

MAINTAIN CHILLER CLEARANCES.

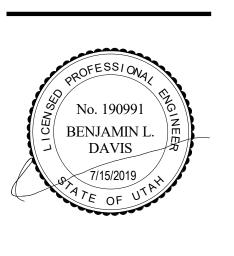
10. MOUNT GLYCOL FEEDS ON AVAILABLE WALL SPACE. FIELD VERIFY.

11. MOUNT EXPANSION TANK ON AVAILABLE WALL SPACE. FIELD VERIFY.

12. PUMPS STACKED, VERIFY INSTALL LOCATION ALLOWS ACCESS.

13. HEAT EXCHANGER TO BE INSTALLED AT THE SAME ELEVATION AS THE CHILLER. SNOW SHEILD SHALL BE EXTENDED TO COVER NEW PIPING AND HEAT EXCHANGER.

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VBFA Project Number: 19303

REV DATE DESCRIPTION

MRI CARING SUITE

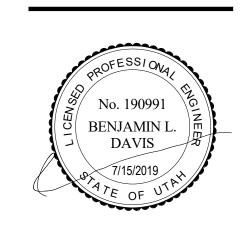
IMED BUILDIN



FIELD VERIFY AND COORDINATE PIPE ROUTING THROUGH THE CEILING SPACE.

- CHILLED WATER PIPES TO SERVE MRI EQUIPMENT. COORDINATE CONNECTION AND ROUTING WITH SITE SPECIFIC MRI DRAWING. SEE DETAIL 5/M501 FOR ALL COMPONENTS.
- PIPING DOWN TO LL2, SEE SHEET MP101 FOR CONTINUATION.
- COORDINATE VFD LOCATION WITH AVAILABLE WALL SPACE WITH NEW MRI EQUIPMENT LAYOUT.







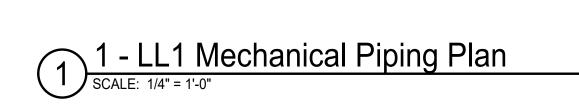
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REV DATE DESCRIPTION

CLIENT NUMBER: 07/15/2019

MRI CARING SUITE

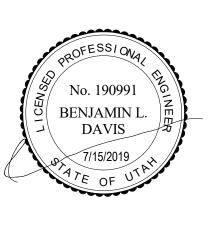
IMED BUILDING



REMOVE EXISTING 3/4" RPBP AND ASSOCIATED PIPING SERVING PREVIOUS MRI.

2. CAP REMOVED DOMESTIC COLD WATER LINE.





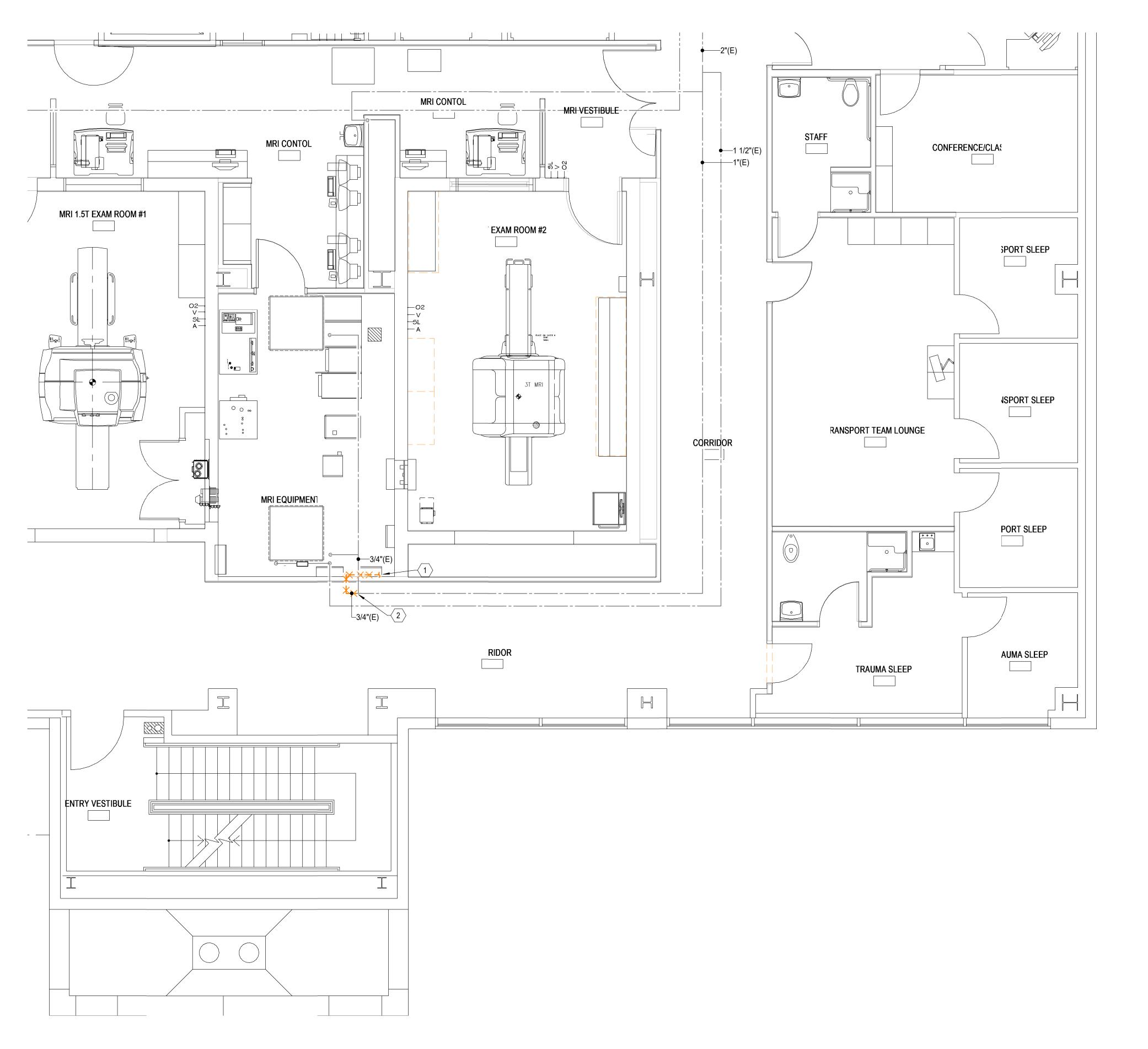


REV DATE DESCRIPTION

CLIENT NUMBER:

07/15/2019

MRI CARING SUITE IMED BUILDING



DROP LINE TO EXISTING FLOOR SINK AND TERMINATE WITH AIR GAP AT FLOOR SINK.

MECHANICAL EQUIPMENT. SEE SHEET MP101.





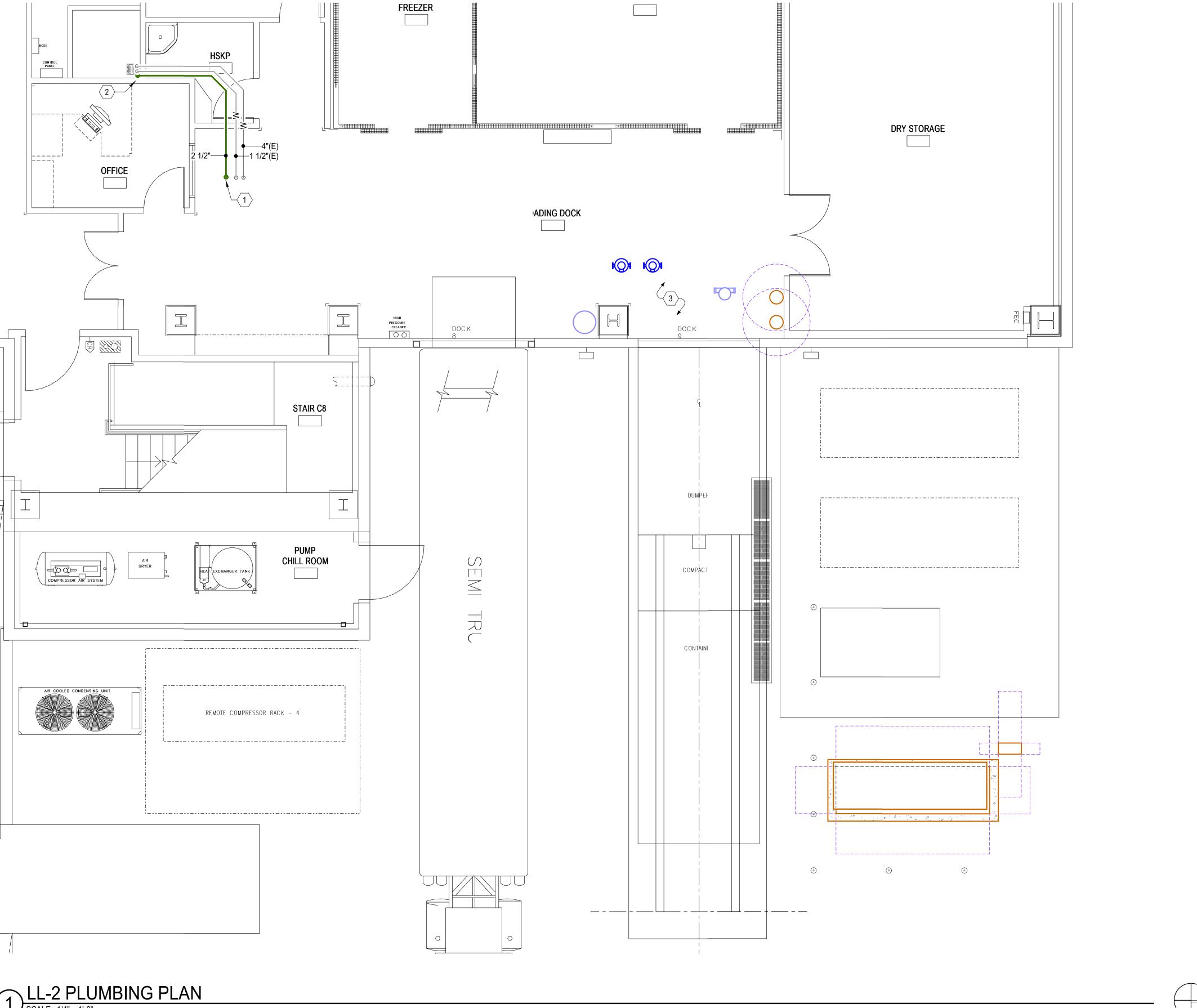


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REV DATE DESCRIPTION

MRI CARING SUITE

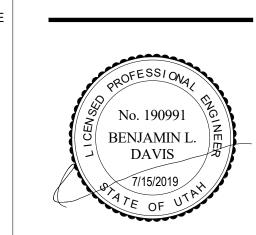
IMED BUILDING & INTERMOUNTAIN HEALTHCARE 5125 SOUTH COTTONWOOD STRI



EXTEND WATER LINE TO HEAT EXCHANGER PER MRI SITE SPECIFIC DRAWINGS. SEE DETAIL 5/M501.

DISCHARGE LINE FROM HEAT EXCHANGER. DROP LINE DOWN TO FLOOR BELOW AND RUN TO FLOOR SINK. SEE SHEET P101 FOR CONTINUATION.

CONNECT TO EXISTING 2" DOMESTIC COLD WATER LINE. FIELD VERIFY EXISTING CONDITIONS AND LOCATION.



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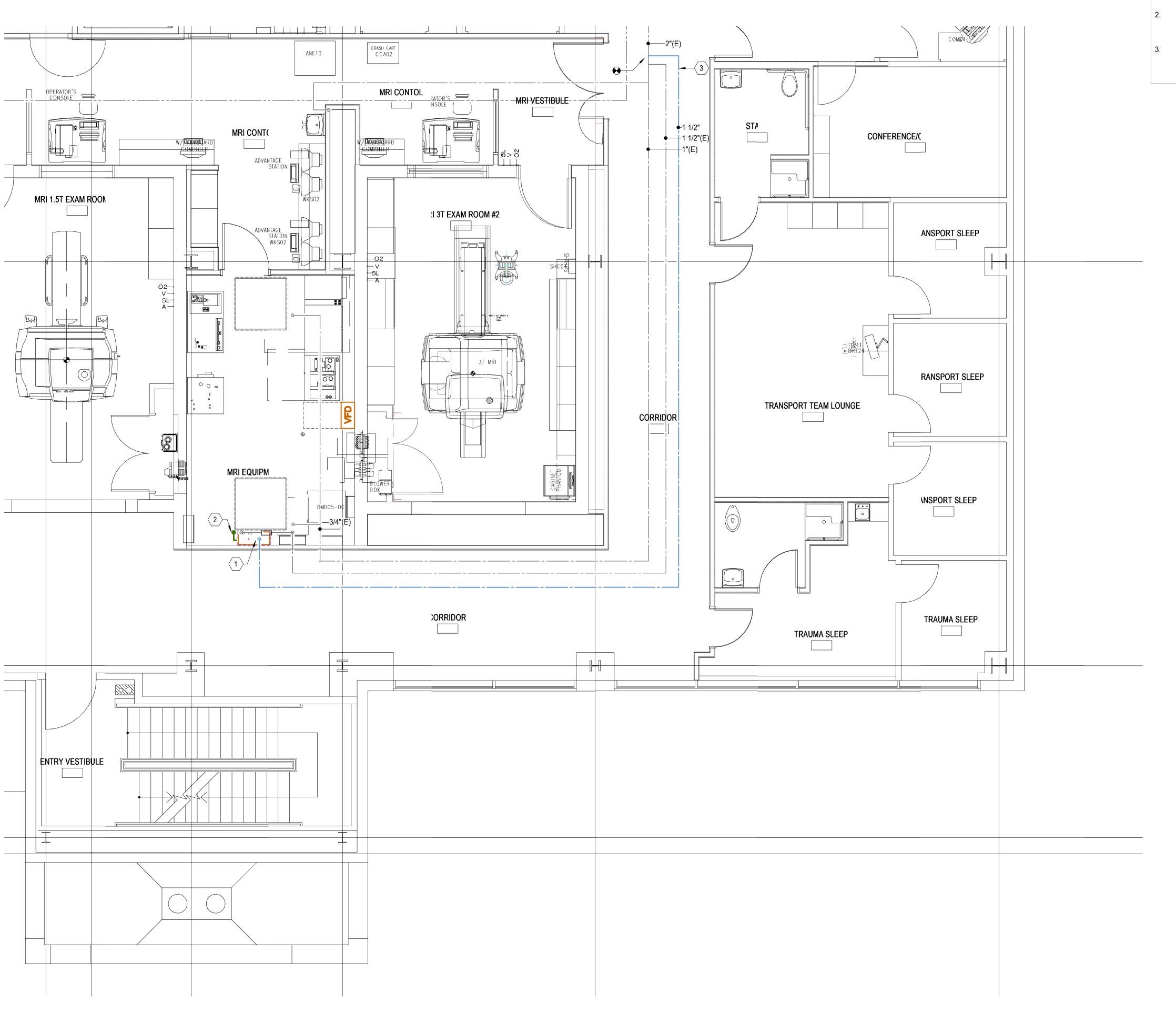
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REV DATE DESCRIPTION

MRI CARING SUITE

IMED BUILDING

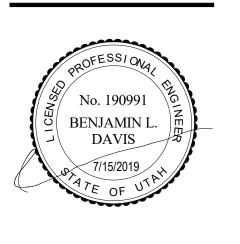
P102



KEYED NOTES

REMOVE EXISTING MV, MA, AND O2 BRANCH LINES SERVING MRI ROOM BACK TO MAIN.

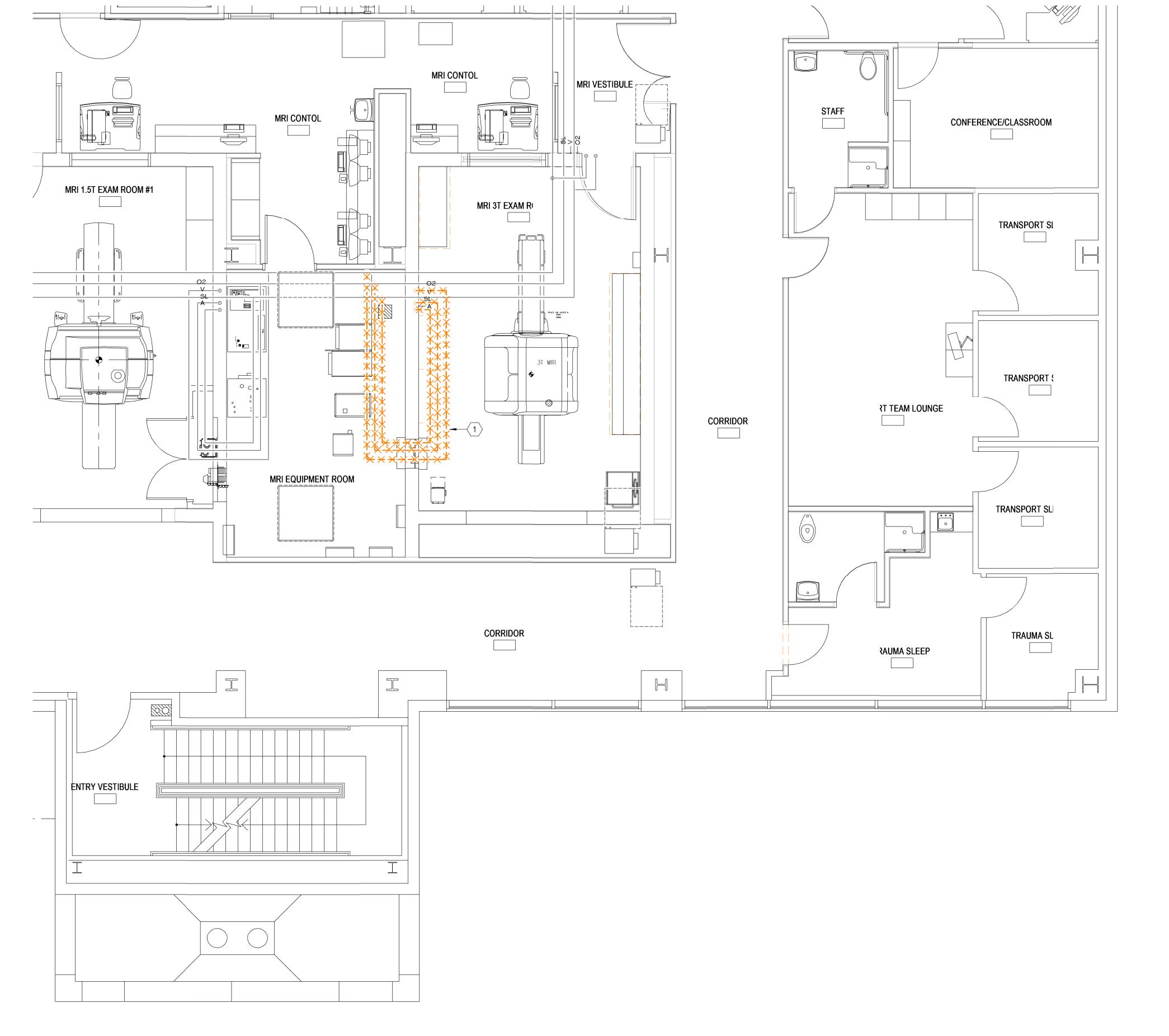






REV DATE DESCRIPTION

- MRI CARING SUITE



1 LL1 MEDICAL GAS DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

KEYED NOTES

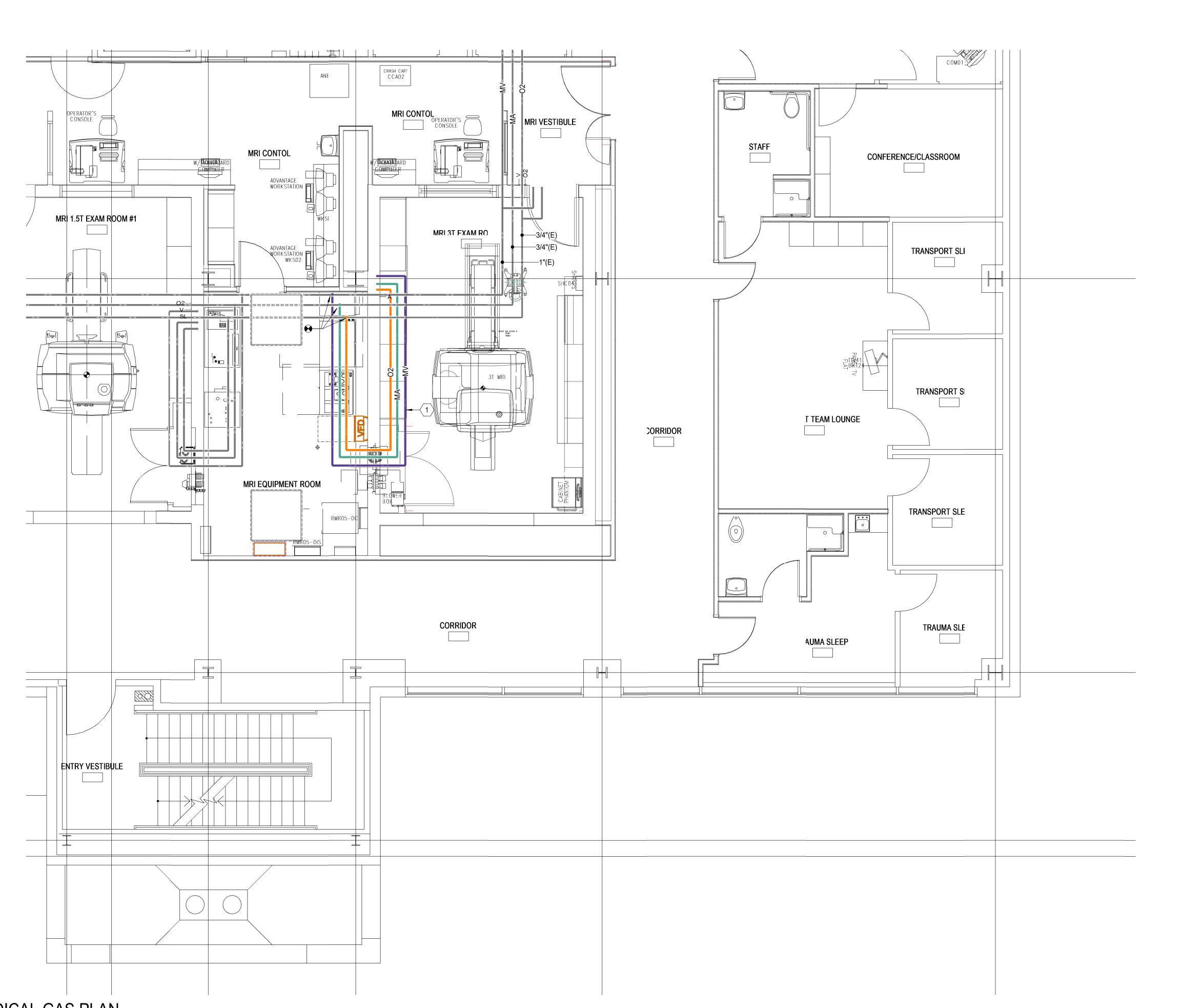
ROUTE NEW MV, MA, AND O2 BRANCH LINES SERVING MRI ROOM THROUGH NEW PENETRATION PANEL. TERMINATE AT NEW MEDICAL GAS OUTLET, SEE ARCHITECTURAL ELEVATIONS.



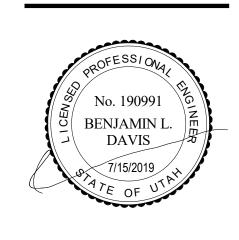




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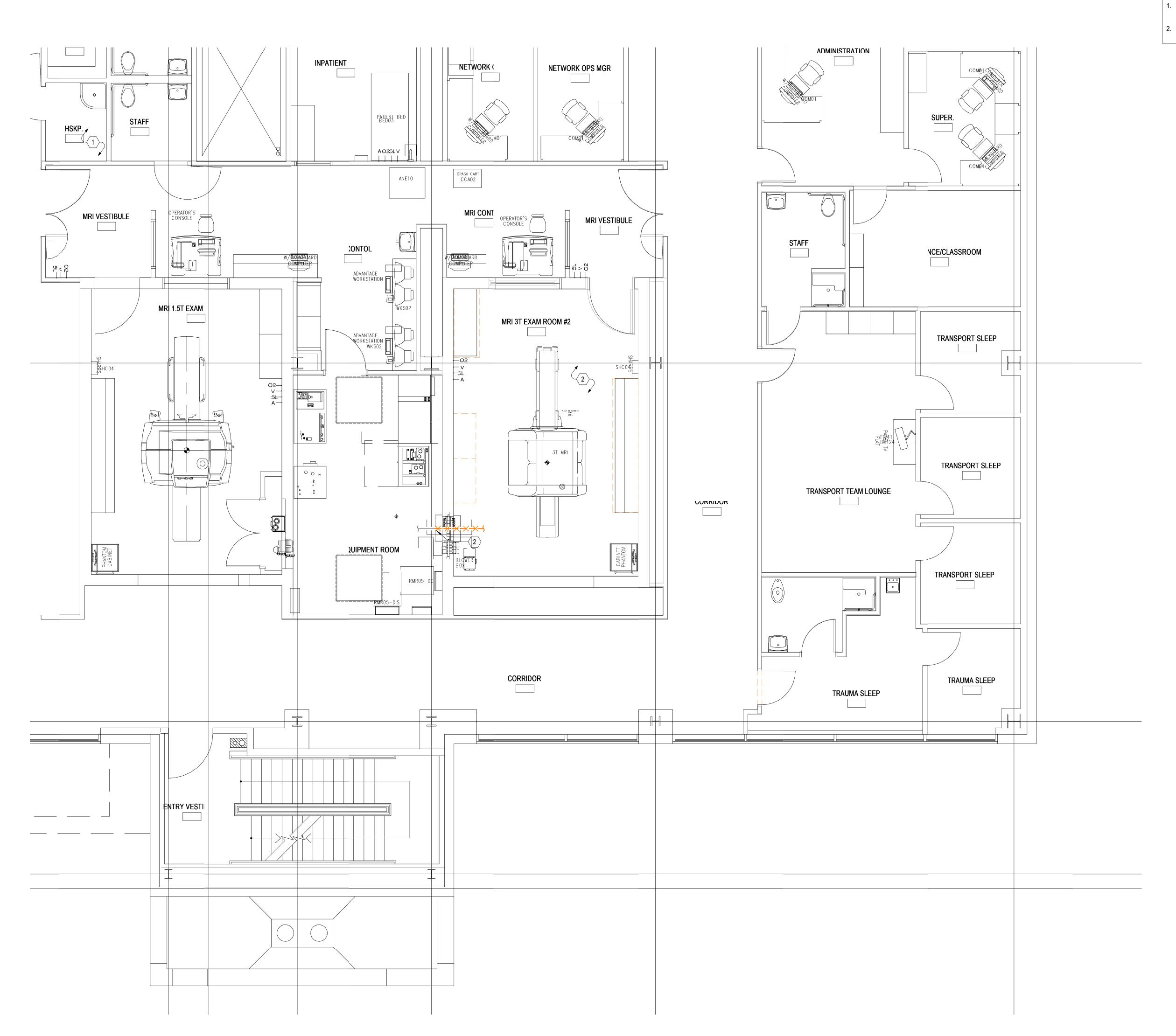






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REV DATE DESCRIPTION

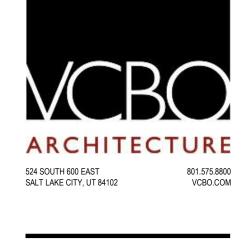


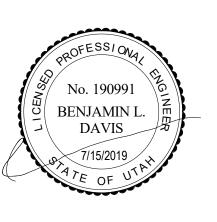
KEYED NOTES

PREACTION PIPING SHALL BE GAVLANIZED, TYPICAL. PROVIDE COPPER PIPING AND HARDWARE FOR MRI.

AREA PROTECTED BY EXISTING SINGLE INTERLOCK, PREACTION SYSTEM WITH ELECTRIC ACTIVATION. COORDINATE HEAD PLACEMENT WITH ARCHITECTURAL REFLECTED CEILING PLANS AND MRI SPECIFIC SITE DRAWINGS. COORDINATE PIPE ROUTING WITH OTHER CEILING ELEMENTS.

CONNECT TO EXISTING FIRE PIPING AND ROUTE THROUGH PENETRATION PANEL.





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VBFA Project Number: 19303

REV DATE DESCRIPTION

FP101

| | 1 |
|----------------------------|---|
| | SYMBOLS LEGEND |
| SYMBOL | DESCRIPTION |
| | CE AND LINE SYMBOLS |
| A5 E-501 | DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN. |
| A5 E-201 | ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN. |
| A5 E-201 | ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN. |
| ROOM NAME | ROOM IDENTIFIER WITH ROOM NAME AND NUMBER. |
| 5 (1) | KEYNOTE INDICATOR. |
| 5 1 | REVISION INDICATOR. |
| CU-1 | EQUIPMENT INDICATOR. |
| X-X XMDP | MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION. |
|)—\ <u>\</u> | BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING |
| \sim | BREAK, ROUND |
| MATCH LINE SEE XX/X-XXX | MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE. |
| 3 | NEW LINE: MEDIUM LINE. |
| | HIDDEN FEATURES LINE: HIDDEN, THIN LINE |
| | EXISTING TO REMAIN LINE: THIN LINE. |
| | DEMOLITION LINE: DASHED WIDE LINE |
| | PROPERTY LINE: DASHED, WIDE LINE. CONTRACT LIMIT LINE: DASHDOT, WIDE LINE. |
| XXX EF-X | ELECTRICAL EQUIPMENT INDICATOR. "XXX" INDICATES TYPE OF EQUIPMENT OR EQUIPMENT ID. "EF-X" IDENTIFIES MECHANICAL EQUIPMENT BEING SERVED. REFER TO EQUIPMENT SCHEDULE |
| X-X XKP | FOR ADDITIONAL INFORMATION. KITCHEN EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XKP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT |
| | SCHEDULE FOR ADDITIONAL INFORMATION. |
| /IRING ME | <u> </u> |
| | WIRING. WIRING TURNED UP OR TOWARDS OBSERVER. |
| 0 | WIRING TURNED DOWN OR AWAY FROM OBSERVER. |
| | BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF |
| A-1,3,5 | ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS. |
| A-1,3,5 | BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS. |
| A-1,3,5 | BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. SMALL CROSS LINES INDICATE NUMBER OF CONDUCTORS OR CABLES. LARGER CROSS LINE INDICATES EQUIPMENT GROUND. WAVY CROSS LINE INDICATES INSULATED/ ISOLATED GROUND. FOR BRANCH WIRING, CROSS LINES INDICATE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS. |
| ····· | FLEXIBLE WIRING. |
| 3 | WIRING AND/OR RACEWAY: THIN LINE. WHERE "X" = : |
| x | CATV = CABLE TELEVISION NC = NURSE CALL CCTV = CLOSED CIRCUIT P = POWER TELEVISION RC = RIGID CONDUIT FA = FIRE ALARM S = SOUND FO = FIBER OPTICS T = TELEPHONE I = INTERCOM TV = TELEVISION |
| | OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND |
| | WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED. LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE. |
| + | CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK. |
| 1 | CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM. |
| HC | ADA ACCESS PUSH PLATE |
| 0 | JUNCTION BOX. |
| \mathbb{O}_{SC} | JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION. |
| O _{SE} | JUNCTION BOX, SECURITY SYSTEM. PROVIDE CONDUIT AND ROUGH-IN PER SECURITY DRAWINGS. |
| | JUNCTION BOX, DUCT, UNDERFLOOR. TRIPLE, DOUBLE OR SINGLE DUCT SYSTEM AS INDICATED BY THE NUMBER OF PARALLEL LINES. DESIGNATIONS AS SHOWN FOR WIRING |
| | AND/OR RACEWAY SYMBOLS. |
| | DUCT CELL FLOOR HEADER. |
| I ' | PULL BOX. |
| РВ | CARLE TRAV AROVE ACCESSIBLE OF UNIO |
| C C | CABLE TRAY ABOVE ACCESSIBLE CEILING. WIREWAY |
| PB | CABLE TRAY ABOVE ACCESSIBLE CEILING. WIREWAY. EARTH GROUND (ONE-LINE DIAGRAM). |
| | WIREWAY. |
| C C | WIREWAY. EARTH GROUND (ONE-LINE DIAGRAM). |
| | WIREWAY. EARTH GROUND (ONE-LINE DIAGRAM). JUNCTION BOX, CEILING. |

| | 2 | | 3 |
|---------------------|---|-----------------------------|--|
| | | | |
| CVMPOL | SYMBOLS LEGEND | CVMDOL | SYMBOLS LEGEND |
| SYMBOL WIRING DI | DESCRIPTION FVICES | SYMBOL FLECTRIC | DESCRIPTION AL POWER AND DISTRIBUTION |
| 01 | RECEPTACLE, SINGLE: NEMA 5-20R. | 01 | FUSE WITH RATING (ONE-LINE DIAGRAM). |
| 02 | RECEPTACLE, DUPLEX: NEMA 5-20R. | 02 | |
| 03 b A | RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R. | | DISCONNECT, FUSED (ONE-LINE DIAGRAM). |
| ⁰⁴ | RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R. | 03 | DISCONNECT, NONFUSED (ONE-LINE DIAGRAM). |
| ⁰⁵ | RECEPTACLE, DUPLEX, DEDICATED CIRCUIT: NEMA 5-20R. | 04 | |
| 06 Ц | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE | | |
| ∯ DF | MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS. | | DISCONNECT WITH FUSE AND MOTOR STARTER COMBINATION |
| 07 d IG | RECEPTACLE, DUPLEX, ISOLATED GROUND: NEMA 5-20R. | 5 | (ONE-LINE DIAGRAM). |
| 08 | RECEPTACLE, DUPLEX, SWITCHED: NEMA 5-20R. | | |
| 10 UC | RECEPTACLE, DUPLEX, FLOOR, UNDER CARPET: NEMA 5-20R. | 05 | |
| ₩w | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE": NEMA 5-20R. | 06 | OVERLOAD RELAY (ONE-LINE DIAGRAM). |
| <u>11</u> Ц | RECEPTACLE, DUPLEX, WEATHERPROOF: NEMA 5-20R. | Ţ | STARTER (ONE-LINE DIAGRAM). |
| 12 WP | RECEPTACLE, DUPLEX, HOSPITAL GRADE: NEMA 5-20R. | 07 <u> </u> | |
| 13 | RECEPTACLE, DUPLEX ON EMERGENCY POWER: NEMA 5-20R. | | CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM). |
| 14 📙 | RECEPTACLE, DUPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R. | 08 | CIRCUIT BREAKER, MOLDED CASE WITH SHUNT TRIP |
| 15 | RECEPTACLE, DUPLEX, CONNECTED TO UPS: NEMA 5-20R. | ▼ | (ONE-LINE DIAGRAM). |
| 16 | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R. | 10 | OIDOUIT DDEAKED, OOLID OTATE (ONE LINE DIA ODAM) |
| 17 | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE: NEMA 5-20R. | | CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM). |
| 18 <u>I</u> | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: | 11 | CIRCUIT BREAKER, SOLID STATE WITH GROUND FAULT |
| 19 | NEMA 5-20R. | 12 GFP | PROTECTION (ONE-LINE DIAGRAM). |
| ₩P | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R. | 16 | MOTOR. |
| 21 | RECEPTACLE, DUPLEX, RECESSED: NEMA 5-20R. | <u> </u> | TRANSFORMER (ONE-LINE DIAGRAM). |
| <u></u> в | RECEPTACLE, DUPLEX, SWITCHED, RECESSED: NEMA 5-20R. RECEPTACLE, QUADRAPLEX: NEMA 5-20R. | 20 | DELTA CONNECTION (ONE-LINE DIAGRAM). |
| 23 | RECEPTACLE, QUADRAPLEX ON EMERGENCY | 21 | |
| 24 | POWER: NEMA 5-20R. RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE: NEMA 5-20R. | = | WYE CONNECTION (ONE-LINE DIAGRAM). |
| 25 | RECEPTACLE, QUADRAPLEX, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R. | 23 | |
| 26 | RECEPTACLE, QUADRAPLEX, CONNECTED TO UPS: NEMA 5-20R. | 225/3 "1H" | PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM). |
| 27 | RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R. | | |
| 28 | RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG. | 24 225/3 | PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE |
| 30 | RECEPTACLE, SPECIAL PURPOSE ON EMERGENCY POWER. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG. | "1H" | AS SHOWN (ONE-LINE DIAGRAM). |
| 31 | RECEPTACLE, DRYER: NEMA 14-30R. | 27 | |
| 32—(C) | RECEPTACLE, RANGE: NEMA 14-50R. RECEPTACLE, CLOCK HANGER: NEMA 5-15R. | 225/3 "1H" 225/3 "1H" | PANELBOARD WITH SUB FEED LUGS (ONE-LINE DIAGRAM). |
| 33 | MULTI-OUTLET ASSEMBLY: NEMA 5-20R. | 31 | J |
| 34 (D) | DROP CORD. SEE DETAIL. | | TRANSFER SWITCH (ONE-LINE DIAGRAM). |
| 35 T | THERMOSTAT. | 32 | |
| 36 FB# | FLUSH FLOOR BOX. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL | | DIGITAL MULTIMETER (ONE-LINE DIAGRAM). |
| | SPECIFICATIONS FOR CONFIGURATION AND DEVICES. | 33 - 1 | SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM). |
| 37 PP# | POWER POLE. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR | VFC VFD | VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM). |
| 38 | CONFIGURATION AND DEVICES. | 42 | DISCONNECT SWITCH, FUSED. |
| PT# | FLUSH FIRE RATED POKE THRU. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES. | 43 X h | DISCONNECT SWITCH, UNFUSED. |
| 39 Ф | SWITCH, DIMMER. | 44 | STARTER, COMBINATION WITH DISCONNECT SWITCH. STARTER OR MOTOR CONTROLLER. |
| 40 X \$ | SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED). | 45 | PUSHBUTTON. |
| 41 X \$2 | SWITCH, DOUBLE POLE ("x" INDICATES FIXTURES CONTROLLED). | 46 | PUSHBUTTONS, MOTOR CONTROL. |
| 42 X \$3 | SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED). | 47 | PANELBOARD CABINET, FLUSH MOUNTED. |
| 43 X \$4 | SWITCH, FOUR-WAY ("x" INDICATES FIXTURES CONTROLLED). | 48 | PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION. |
| 44 \$DS | SWITCH, DOOR. | 49 | PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION. |
| 45 \$K | SWITCH, KEY OPERATED. | 50 | DISTRIBUTION PANEL OR SWITCHBOARD. |
| \$LM | SWITCH, LOW VOLTAGE MASTER. | DP# | |
| \$M | SWITCH, MOMENTARY. | LP 52 _ | LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE. |
| \$0S | SWITCH, OCCUPANCY SENSOR. SWITCH, PILOT LIGHT. | 55 \$ST | LIGHTING CONTROL STATION. SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD |
| \$P 50 \$T | SWITCH, TIMER OPERATED. | 56 75 | PROTECTION. TRANSFORMER: NUMBER INDICATES kVA. |
| 51 \$WP | SWITCH, WEATHERPROOF. | 00 | RED CABLING IHC |
| 52 | RECEPTACLE, DUPLEX, TAMPER RESISTANT: NEMA 5-20R. | 01 V | IHC COMMUNICATIONS DEVICE (1 DATA). |
| 53 | RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, HOSPITAL GRADE: NEMA 5-20R. | 02 | IHC COMMUNICATIONS DEVICE (1 DATA / 1 ANALOG). |
| 54 Ц | RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT | 03 | IHC COMMUNICATIONS DEVICE (1 DATA WALL PHONE). |
| • | INTERRUPTER, HOSPITAL GRADE ON EMERGENCY POWER: NEMA 5-20R. | 04 V | IHC COMMUNICATIONS DEVICE (2 DATA). |
| 55 56 Lt | RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, CONNECTED TO UPS: NEMA 5-20R. | 05 ▼ 3 | IHC COMMUNICATIONS DEVICE (3 DATA). |
| 56 | RECEPTACLE, SINGLE PLEX, WITH USB OUTLET | 07 | IHC COMMUNICATIONS DEVICE (4 DATA). |
| ₩ # | RECEPTACLE, DULEX, RECESSED, NEMA 5-20R, AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD) | 07 ▼ 6 | IHC COMMUNICATIONS DEVICE (6 DATA). IHC COMMUNICATIONS DEVICE PHYSIOLOGICAL MONITOR |
| 58 | | 09 ▼ WAP | (1 DATA). IHC COMMUNICATIONS DEVICE WIRELESS ACCESS POINT (2 |
| # | RECEPTACLE, QUADRAPLEX, RECESSED, NEMA 5-20R, AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO PLANS FOR CONTROL METHOD) | A MAL | DATA). |
| 59 | | | |

INDICATES A RECEPTACLE IS AUTOMATICALLY CONTROLLED THROUGH TIME OR OCCUPANCY BASED CONTROLS (REFER TO

PLANS FOR CONTROL METHOD)

| | DESCRIPTION DESCRIPTION DESCRIPTION |
|---|--|
| 01 | REFER TO FIXTURE SCHEDULE FOR SYMBOLS) |
| (W-3) | FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED. |
| 02 (W-3) | |
| | CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATE FIXTURE TYPE AS SCHEDULED. |
| 03 EM | EMERGENCY. |
| 04 NL | NIGHT LIGHT: DO NOT SWITCH. |
| 05 | EGRESS DIRECTION ARROW (EXIT SIGNS). |
| 06 LV | LOW VOLTAGE LIGHTING TRANSFORMER. |
| 07 | EXIT SIGN: SINGLE FACE; CEILING MOUNTED |
| 08 🕸 🔄 | EXIT SIGN: SINGLE FACE; WALL MOUNTED |
| 09 | EXIT SIGN: DOUBLE FACE; CEILING MOUNTED |
| 10 | EXIT SIGN: DOUBLE FACE; WALL MOUNTED |
| LIGHTING (| |
| 02 02 | OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING. |
| 02 <u></u> 3 | OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL. |
| ⊕ ∩4 | OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL. |
| *∪ 05 ~ | OCCUPANCY SENSOR, ULTRASONIC, OMNI-DIRECTIONAL, CEILING. |
| (R) | OCCUPANCY SENSOR CONTROL RELAY. |
| 07 | VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING. |
| 08 | VACANCY SENSOR, DUAL TECHNOLOGY, WALL. |
| P) | PHOTOCELL. |
| 13 TC | TIME CLOCK. |
| 13 SP | OCCUPANCY SENSOR, SWITCH PACK. |
| a,b | LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER "a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURA |
| 19 | AND PROGRAMMING REQUIREMENTS) |
| DC | DIGITAL LIGHTING DIMMING CONTROLLER |
| 20 LC | DIGITAL PLUG LOAD CONTROLLER |
| 23 RC | DIGITAL LIGHTING ROOM CONTROLLER |
| 26 X | LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE SCHEDULE / DIAGRAM. |
| °CCTV | |
| 01—P | CCTV CABLE, POWER. |
| 02V | CCTV CABLE, VIDEO SIGNAL. |
| O3 CCTV | CCTV HEADEND EQUIPMENT. |
| 04 M | CCTV MONITOR. |
| 05 | CCTV CAMERA/ENCLOSURE WITH LENS, TYPICAL. SEE SCHEI |
| PTZ > | CCTV CAMERA WITH PAN, TILT AND ZOOM. |
| 07 360° | PANNING CAMERA TRANSVERSE ANGLE. |
| | · · · · · · |
| O | JUNCTION BOX. |
| <u> </u> | DUTY STATION. |
| Ē | EMERGENCY ASSISTANCE CALL STATION. |
| Есв | EMERGENCY ASSISTANCE CODE BLUE CALL STATION. |
| P | PATIENT STATION. |
| S | STAFF STATION. |
| NCM | TOUCH SCREEN NURSE CALL MASTER STATION. |
| TV DISTRIE | BUTION |
| 01T | TV DISTRIBUTION CABLE, INDIVIDUAL DROPS. |
| 02—TR | TV DISTRIBUTION CABLE, TRUNK. |
| 03 CMB | COMBINER. |
| 04 DC | DIRECTIONAL COUPLER. |
| 05 DA | DISTRIBUTION AMPLIFIER (ONE-LINE DIAGRAM). |
| | The state of the s |
| 06 SPL | SPLITTER (ONE-LINE DIAGRAM). |
| | |
| 07 | TV OUTLET. |
| 08 | SATELLITE ANTENNA. |
| 09 | TV ANTENNA (ONE-LINE DIAGRAM). |
| ¹⁰ -\\\\\- | TERMINATOR, 75 OHM (TV DISTRIBUTION). |
| SECURITY | |
| 01.= | SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE. |
| 01—X | ACCESS CONTROL HEADEND EQUIPMENT. |
| 02 ACC | · · · · · · · · · · · · · · · · · · |
| 02 | SECURITY CONTROL PANEL. |
| 02 ACC | |
| 02 ACC O3 CTR | SECURITY CONTROL PANEL. |
| 02 ACC 03 CTR 04 SEC | SECURITY CONTROL PANEL. INTRUSION DETECTION HEADEND EQUIPMENT. CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE |
| 02 ACC 03 CTR 04 SEC 05 #1 | SECURITY CONTROL PANEL. INTRUSION DETECTION HEADEND EQUIPMENT. CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE. |
| 02 ACC 03 CTR 04 SEC 05 #1 06 CR 07 KCR | SECURITY CONTROL PANEL. INTRUSION DETECTION HEADEND EQUIPMENT. CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE. CARD READER. |
| 02 ACC 03 CTR 04 SEC 05 #1 06 CR 07 KCR | SECURITY CONTROL PANEL. INTRUSION DETECTION HEADEND EQUIPMENT. CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE. CARD READER. KEYPAD/CARD READER COMBINATION. |
| 02 ACC 03 CTR 04 SEC 05 #1 06 CR 07 KCR | 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. |

REMOTE DOOR RELEASE BUTTON.

| D | ABBREVIATIONS | | | | |
|--------------------------------|-------------------------------|---|-------------------|---|--|
| SYMBOLS) | 4D CINC | NOTE: ALL ABBREVIAT | | | |
| TURE TYPE AS | 1PH SING | GLE POLE GLE-PHASE -WAY | kV kVA kVAR | KILOVOLT KILOVOLT AMPERE KILOVOLT AMPERE REACTIVE | |
| | | -CONDUCTOR -WAY | kW kWh | KILOWATT KILOWATT HOUR | |
| ATTERY PACK, W-3) INDICATES | 3WAY THR | EE-CONDUCTOR EE-WAY | LED LFMC | LIGHT EMITTING DIODE LIQUID TIGHT FLEXIBLE METAL CONDUIT | |
| , | OUTI | DRUPLE RECEPTACLE LET R-POLE DOUBLE THROW | LFNC | LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT | |
| | | R-POLE SINGLE THROW R-WIRE | LPS LRA | LOW PRESSURE SODIUM LOCKED ROTOR AMPS | |
| | A ABO | R-WAY VE COUNTER | LTG LV MATV | LIGHTING LOW VOLTAGE MASTER ANTENNA TELEVISION | |
| | | ORED CABLE RICANS WITH DISABILITIES | MAX | SYSTEM MAXIMUM | |
| | | ACENT VE FINISHED FLOOR | MC MCA | METAL CLAD MINIMUM CIRCUIT AMPS | |
| | AIC AMP | VE FINISHED GRADE ERE INTERRUPTING ACITY | MCB MCC MCP | MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTION | |
| | | MINUM | MDP MG | MAIN DISTRIBUTION PANEL MOTOR GENERATOR | |
| | AP ACCI | UNCIATOR ESS POINT (WIRELESS | MH MIN | MANHOLE MINIMUM | |
| | | A) EQUIRED S SHORT CIRCUIT | MLO MOCP | MAIN LUGS ONLY MAXIMUM OVERCURRENT PROTECTION | |
| | | OMATIC TRANSFER | NA NC | NOT APPLICABLE NORMALLY CLOSED | |
| ALL. | AWG AME | O VISUAL RICAN WIRE GAGE | NEC NEMA | NATIONAL ELECTRICAL CODE NATIOANL ELECTRICAL | |
| RECTIONAL. | XFMR | K-BOOST TRANSFORMER ING MOUNTED | NFC | MANUFACTURERS ASSOCIATION NATIONAL FIRE CODE | |
| ECTIONAL, | CATV COM TELE | MUNITY ANTENNA EVISION | NFPA | NATIONAL FIRE PROTECTION ASSOCIATION | |
| | CCBA CUS | CUIT BREAKER TOM COLOR AS SELECTED RCHITECT | NIC NL | NOT IN CONTRACT NIGHT LIGHT | |
| | CCTV CLOS | SED CIRCUIT TELEVISION TRACTOR FURNISHED/ | NO NTS OC | NORMALLY OPEN NOT TO SCALE ON CENTER | |
| | CON CF/OI CON | TRACTOR INSTALLED TRACTOR FURNISHED/ | OCP OF/CI | OVER CURRENT PROTECTION OWNER FURNISHED/ | |
| | CFBA CUS | IER INSTALLED TOM FINISH AS SELECTED RCHITECT | OF/OI | CONTRACTOR INSTALLED OWNER FURNISHED/ OWNER INSTALLED | |
| | CKT CIRC | | OFP OH DR | OBTAIN FROM PLANS OVERHEAD (COILING) DOOR | |
| | | VENIENCE OUTLET | OL PB | OVERHEAD (COILING) BOOK OVERLOAD PUSHBUTTON | |
| VITCH: LETTER ER TO PLANS, | REPI | TRACTING OFFICER'S RESENTATIVE TROL PANEL | PF PH | POWER FACTOR PHASE | |
| N CONFIGURATION | CT CUR | RENT TRANSFORMER LE TELEVISION | PNL PT PTZ | PANEL POTENTIAL TRANSFORMER PAN/TILT/ZOOM | |
| | | OF SOUND LEVEL | QTY R | QUANTITY REMOVE | |
| | THRO | BLE POLE, DOUBLE DW CONNECT SWITCH | RCP RMC | REFLECTED CEILING PLAN RIGID METAL CONDUIT | |
| | EA EACH | | RNC RPM | RIGID NONMETAL CONDUIT REVOLUTIONS PER MINUTE | |
| S TYPE. SEE | ENT ELEC | CTRICAL METALLIC TUBING CTRIC NONMETALLIC | RR S/S SCA | REMOVE AND RELOCATE START/STOP SHORT CIRCUIT AMPS | |
| | | NG RGENCY POWER OFF IPMENT | SCBA | STANDARD COLOR AS SELECTED BY ARCHITECT | |
| | EX EXIS | TING NITURE MOUNTED | SF SFBA | SQUARE FOOT (FEET) STANDARD FINISH AS | |
| | | ALARM ALARM CONTROL PANEL | SPD SPDT | SELECTED BY ARCHITECT SURGE PROTECTIVE DEVICE SINGLE POLE, DOUBLE THROW | |
| | FMC FLEX | LOAD AMPS (IBLE METAL CONDUIT | SPEC SPST | SPECIFICATION SINGLE POLE, SINGLE THROW | |
| | FVNR FULL | GHT ON BOARD . VOLTAGE -REVERSING | ST SWBD | SINGLE THROW SWITCHBOARD | |
| AL. SEE SCHEDULE. | FVR FULL G GRO | . VOLTAGE REVERSING UND | SWGR TL TP | SWITCHGEAR TWIST LOCK | |
| | GFCI GRO | ERATOR UND FAULT INTERRUPTER | TP TTB | TELEPHONE POLE TWISTED PAIR TELEPHONE TERMINAL BOARD | |
| | HD HEA | UND FAULT PROTECTION VY DUTY I INTENSITY DISCHARGE | TV TVSS | TELEVISION TRANSIENT VOLTAGE SURGE | |
| | HOA HANI | D-OFF-AUTOMATIC SE POWER | TYP UF | SUPPRESSER TYPICAL UNDERFLOOR | |
| | HPS HIGH | I POWER FACTOR I PRESSURE SODIUM | UGND UPS | UNDERGROUND UNINTERRUPTIBLE POWER | |
| | HZ HER | I VOLTAGE TZ IT/ OUTPUT | V | SUPPLY VOLTS | |
| TATION. | IG ISOL | ATED GROUND RMEDIATE METAL | VA VFC/VF D | VOLT AMPERE VARIABLE FREQUENCY MOTOR CONTROLLER | |
| | | LATED/ ISOLATED | W/ W/O | WITH WITHOUT | |
| | | ARED CTION BOX | WP XFMR | WEATHERPROOF TRANSFORMER | |
| N. | | | | | |
| | | SYMBOLS | SIF | GEND | |
| | SYMBOL | DESCRIPTION | | OLIND | |
| | TECHNOLO | DGY SYSTEMS | | | |
| | ⁰² S _# | SPEAKER, CEILING MOUN | ITED. | | |
| | ⁰³ +S _# | SPEAKER, WALL MOUNTE | ED. | | |
| | 21 | EQUIPMENT CABINET. | | | |
| | 40 CP# | CONNECTION PANEL. | | | |
| | FIRE ALAR | M | | | |
| | 02 FCP | FIRE ALARM CONTROL PA | ANEL, SEM | II-RECESSED. | |
| | 03 FPS | FIRE ALARM NOTIFICATIO | N POWER | SUPPLY. | |
| | 07 CM | CONTROL MODULE. | | | |
| | 09 MM | MONITOR MODULE. | | | |
| | 11 | FIRE ALARM MANUAL PULL STATION. | | | |
| FOR CABLE | 5 | MAGNETIC DOOR HOLDER. | | | |
| | 22 | DETECTOR, SMOKE. | | | |
| | S | DETECTOR, SMOKE, DUC | T WITH HO | DUSING AND SAMPLING TUBE. | |
| | 23 | DETECTOR MEAT | | | |
| SEE | 25 | DETECTOR, HEAT. STROBE. | | | |
| | | ALARM, HORN/STROBE, C | NE ASSFI | MBLY. | |
| | 37 | , | | | |
| DL. | | SMOKE DAMPER. | | | |

FIRE AND SMOKE DAMPER.

| ^ T | 10110 |] | | GENERAL ELECTRICAL NOTES |
|---|---|---|----|---|
| ATIONS | | | 4 | OLADIEIOATION METUODO, ATTUE TIME OF DIDDING DIDDEDO CUALL FAMILIADIZE |
| NS MAY NOT BE USED. | | | 1. | CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, |
| kV kVA kVAR kW kWh LED LFMC | KILOVOLT KILOVOLT AMPERE KILOVOLT AMPERE REACTIVE KILOWATT KILOWATT HOUR LIGHT EMITTING DIODE LIQUID TIGHT FLEXIBLE METAL CONDUIT | | | MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED. |
| LFNC LPS LRA LTG | LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT LOW PRESSURE SODIUM LOCKED ROTOR AMPS LIGHTING | | 2. | OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM. |
| LV MATV | LOW VOLTAGE MASTER ANTENNA TELEVISION SYSTEM | | | A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT. |
| MAX MC MCA MCB | MAXIMUM METAL CLAD MINIMUM CIRCUIT AMPS MAIN CIRCUIT BREAKER | | | B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH |

| | MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER. |
|----|---|
| C. | THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATE OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS. |

THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE

FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR

MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF

EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.

SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.

REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES. OR SCHEDULES ON THE DRAWINGS. OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

ELECTRICAL SHEET INDEX

EE001 SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES EE501 TYPICAL MOUNTING HEIGHT DETAILS EE502 ELECTRICAL DETAILS EE701 GE DRAWINGS

EE702 GE DRAWINGS ED111 LOWER LEVEL 1 ELECTRICAL DEMOLITION PLAN EP101 LOWER LEVEL 1 OVERALL POWER PLAN EP102 LOWER LEVEL 2 OVERALL POWER PLAN EP111 LOWER LEVEL 1 POWER PLAN

OPERATIONS THEY ARE ENGAGED TO PERFORM.

EP601 ONE-LINE DIAGRAM EL111 LOWER LEVEL 1 LIGHTING PLAN

EY111 LOWER LEVEL 1 AUXILIARY PLAN

524 SOUTH 600 EAST SALT LAKE CITY, UT 84102



SPECTRUM 324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

DATE DESCRIPTION

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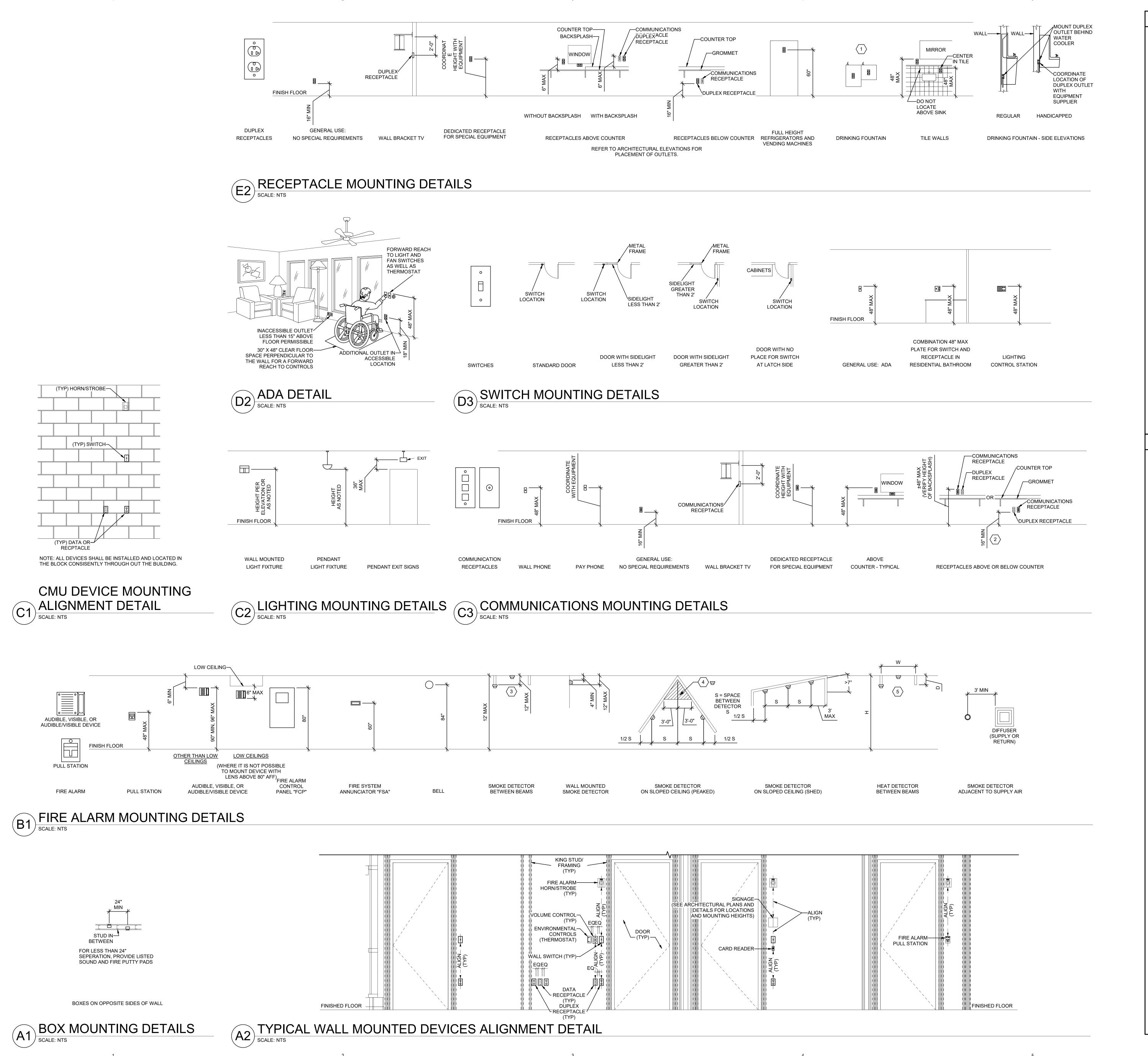
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CLIENT NUMBER:

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ABBREVIATIONS, AND **GENERAL NOTES**



GENERAL SHEET NOTES

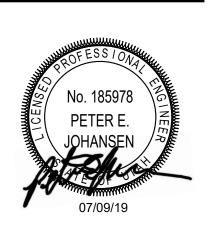
- DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:
 - 1 ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).
 - 2 EQUIPMENT SHOP DRAWINGS.
 - 3 FIELD INSTRUCTIONS.
 - LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED 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 WIREING 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.

SHEET KEYNOTES

- LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS.
- REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.
- LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY .5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS,
- LOCATE DETECTOR ANYWHERE IN SHADED AREA BUT NOT IN TOP 4" OF PEAK.
- LOCATE AT BOTTOM OF BEAMS IF D/H < .1 OR W/H < .4; OTHERWISE, LOCATE IN BEAM POCKET. FOR D > 4 REDUCE SPACING .33 PERPENDICULAR TO BEAMS.

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07/15/2019

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SUITE ARING C MR 5

BUIL IMED

TYPICAL MOUNTING HEIGHT **DETAILS**



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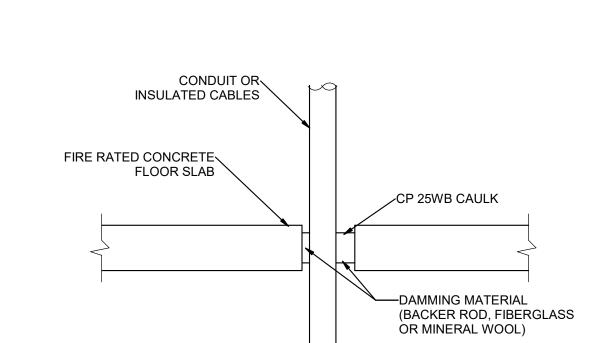
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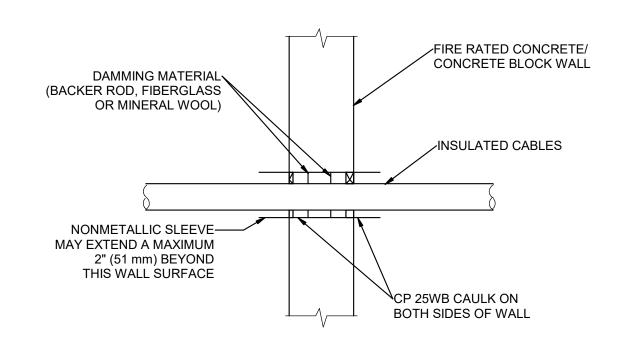
BUILDIN

ELECTRICAL DETAILS

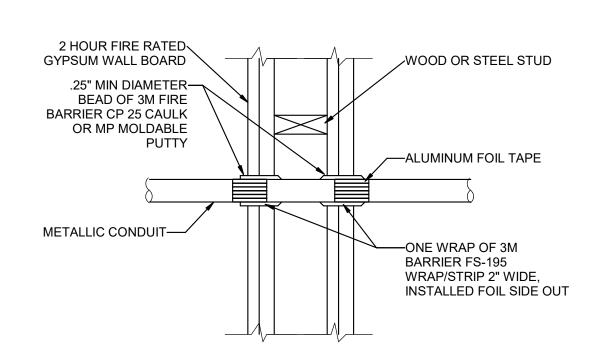




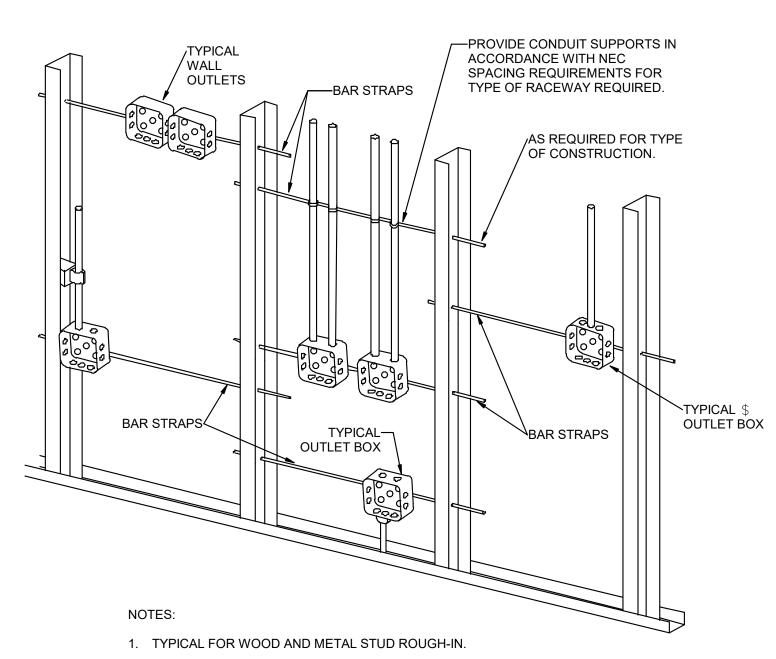
TYPICAL FIRE STOP FOR CABLES/CONDUIT THROUGH C1 CONCRETE FLOORING SCALE: NTS



TYPICAL FIRE STOP FOR CABLES/CONDUIT THROUGH CONCRETE WALLS



FIRE STOP FOR METAL CONDUIT C3 THROUGH GYPSUM WALL BOARD SCALE: NTS

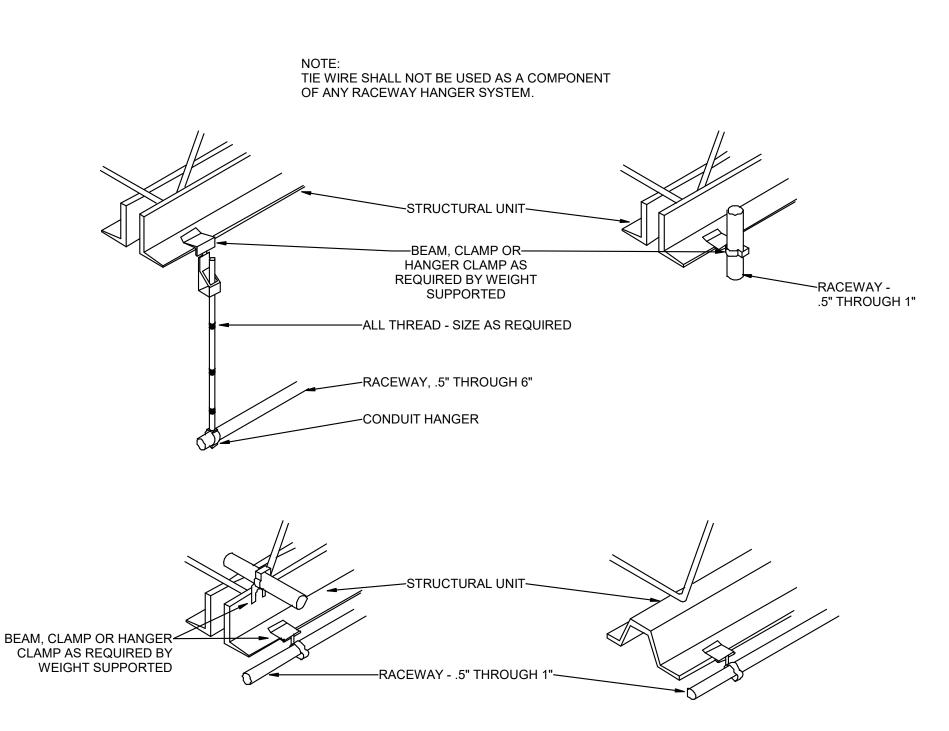


2. PLASTER RINGS NOT SHOWN.

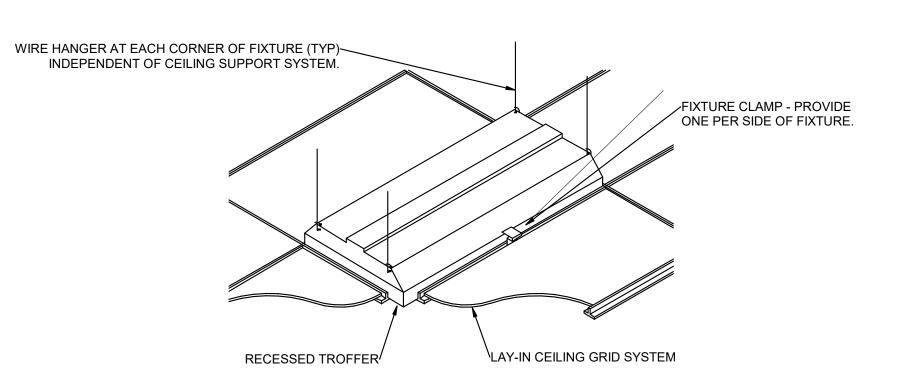
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS. 4. IN ACCORDANCE WITH IBC 714.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE OR LISTED, SOUND AND FIRE RATED PUTTY PADS SHALL BE USED ON THE OUTLET

5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

TYPICAL ROUGH-IN REQUIREMENTS A1 DETAIL SCALE: NTS







RECESSED FIXTURE MOUNTING DETAIL

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

CONNECTIVITY REQUIREMENTS

Broadband Connections are necessary during the installation process and going forward to ensure full support from the Engineering Teams for the customers system. Maximum performance and availability for the customers system is maintained and closely monitored during the lifetime of the system. Proactive and reactive maintenance is available utilising the wide range of digital tools using the connectivity solutions listed below:

- Site-to-Site VPN/GE Solution
- Site-to-Site VPN/Customer Solution Connection through Dedicated Service Network
- Internet Access connectivity for InSite 2.0

The requirements for these connectivity solutions are explained in the broadband solutions catalogue (separate document).

1. 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

ELECTRICAL NOTES

must be continuous copper stranded and free from splices. 1.1. Aluminum or solid wires are not allowed.

2. Wire sizes given are for use of equipment. Larger sizes may be required by local codes. 3. It is recommended that all wires be color coded, as required in accordance with national and local electrical

4. Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or

national codes. 5. 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. 6. 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. 7. 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

8. Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local

9. 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.

10. The maximum point to point distances illustrated on this drawing must not be exceeded. 11. 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. 12. 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

• Ceiling mounted junction boxes illustrated on this plan must be installed flush with finished ceiling. • All ductwork must meet the following requirements:

1. Ductwork shall be metal with dividers and have removable, accessible covers.

2.Ductwork shall be certified/rated for electrical power purposes. 3.Ductwork shall be electrically and mechanically bonded together in an approved manner.

4.PVC as a substitute must be used in accordance with all local and national codes. • All openings in access flooring are to be cut out and finished off with grommet material by the customers

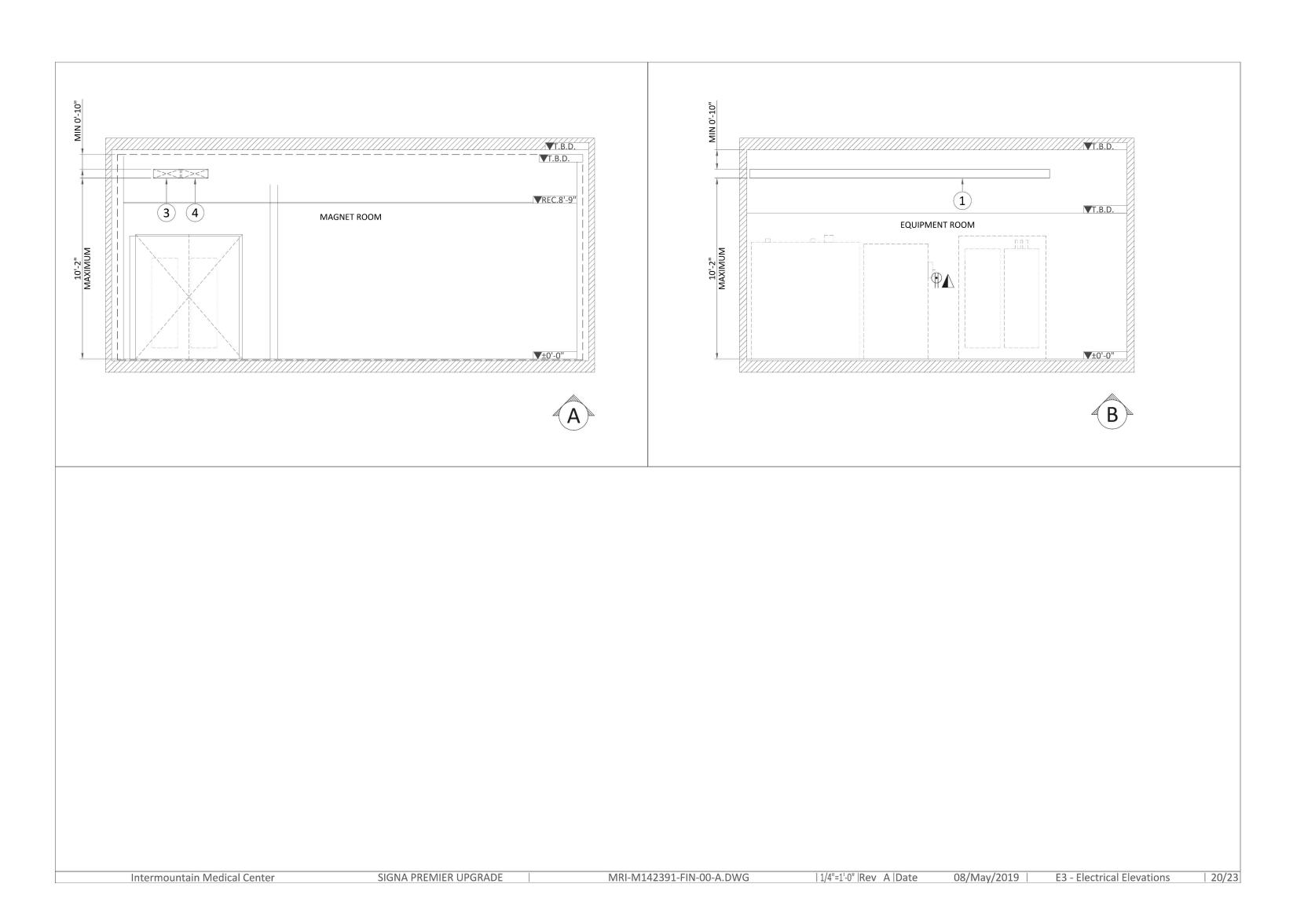
• General contractor to insert pull cords for all cable run conduits between the equipment room and the operators control room.

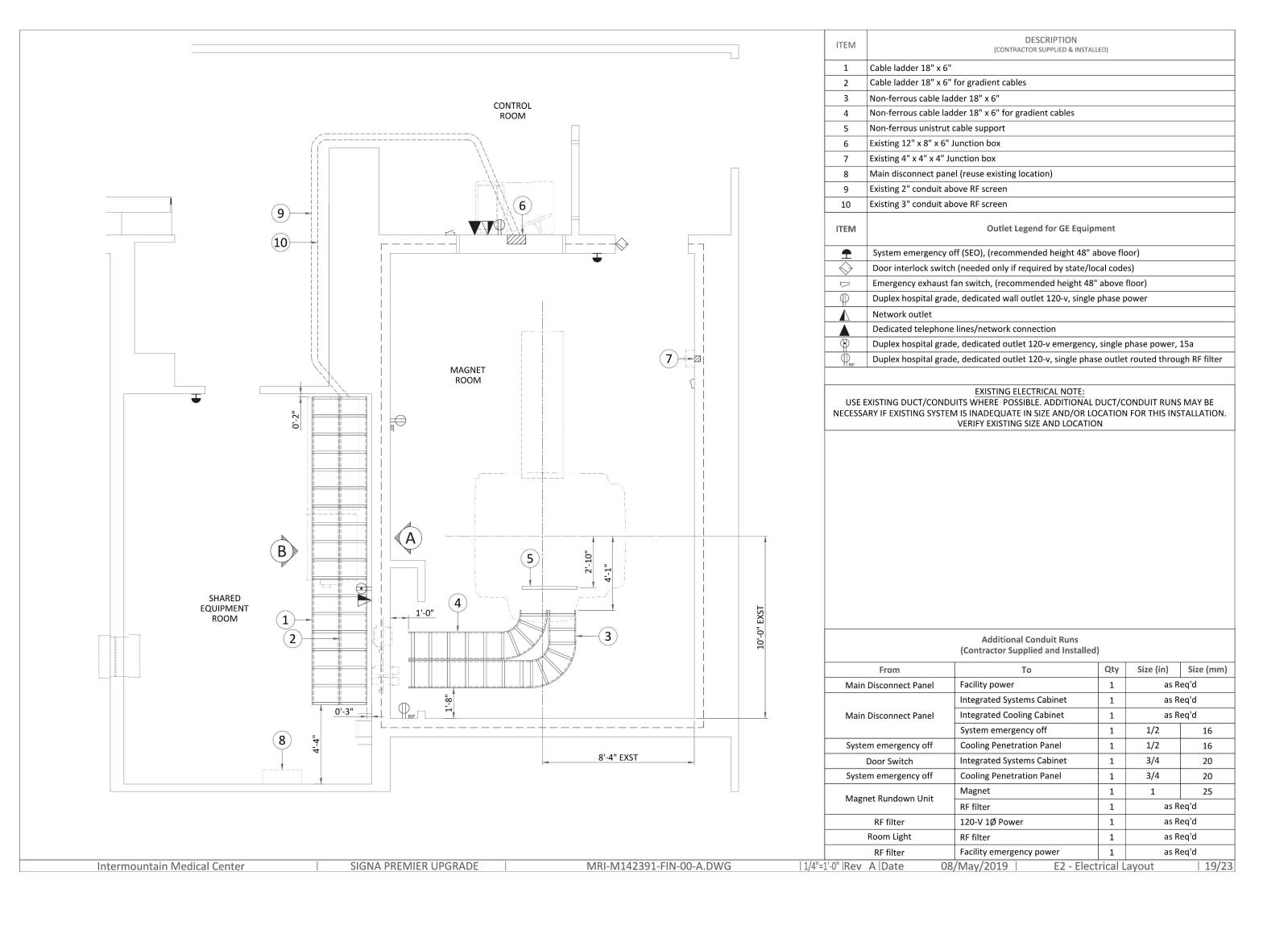
10 foot pigtails at all junction points.

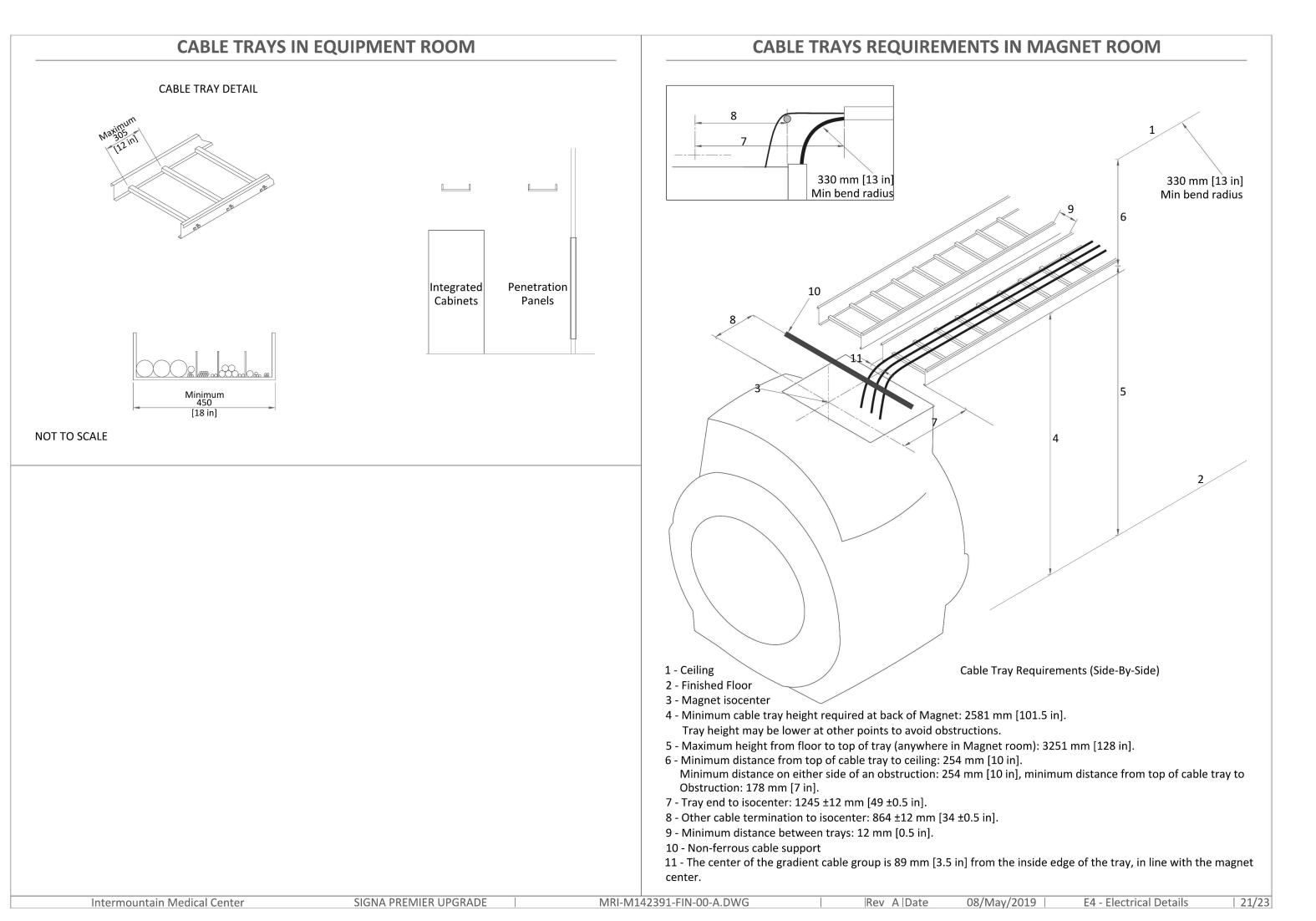
• Grounding is critical to equipment function and patient safety. Site must conform to wiring specifications shown on this plan.

MRI-M142391-FIN-00-A.DWG Intermountain Medical Center SIGNA PREMIER UPGRADE | Rev A | Date 08/May/2019 | E1 - Electrical Notes

electrical codes.









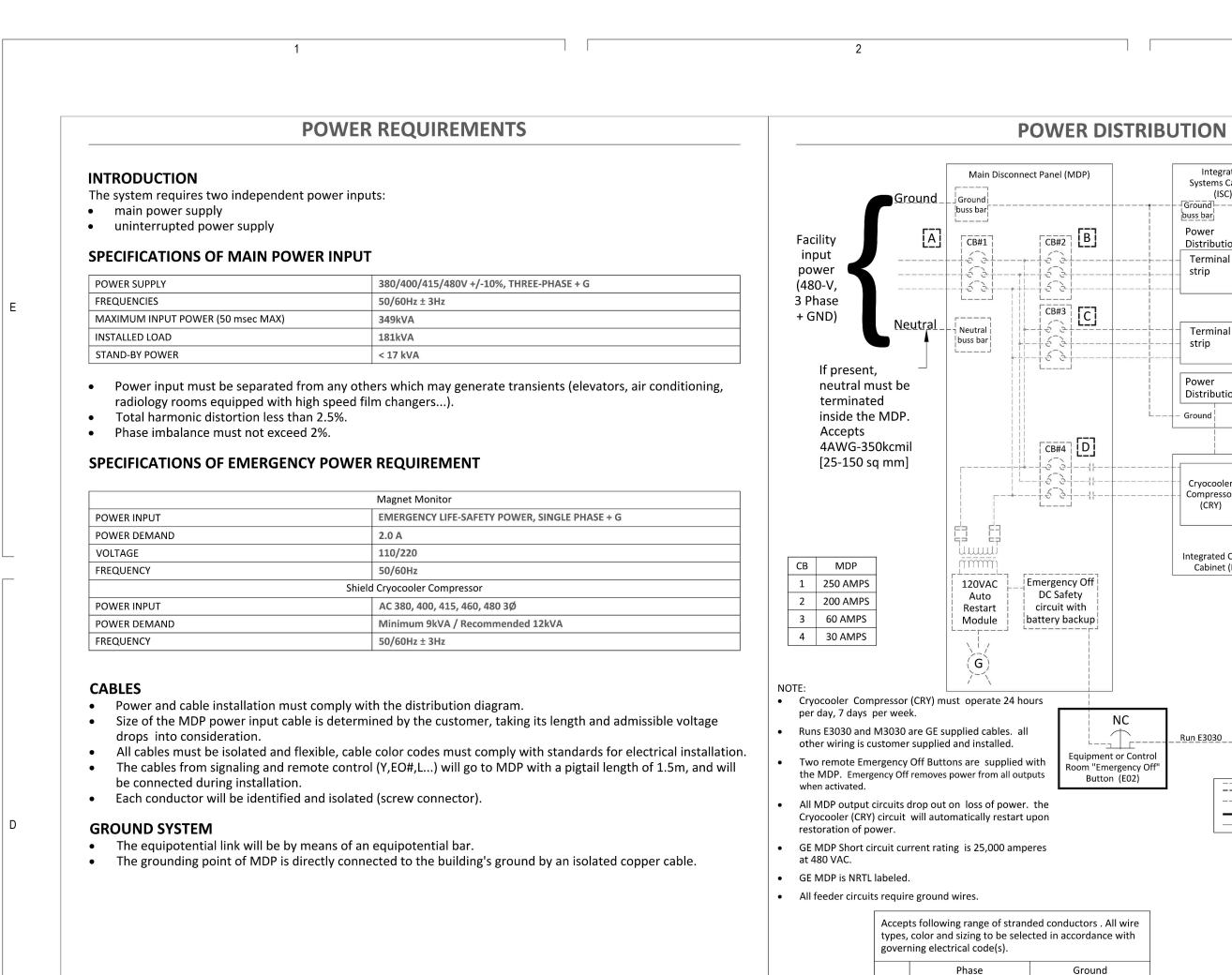


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DATE DESCRIPTION

CLIENT NUMBER: DATE: 07/15/2019

ARING IMED BUILDIN



SIGNA PREMIER UPGRADE

Intermountain Medical Center

Integrated Systems Cabinet

(ISC)

Distribution Unit

Terminal

Terminal

Distribution

Cryocooler

Compressor

(CRY)

Integrated Cooling Cabinet (ICC)

6-250 16-120

6-250 16-120

8-350 6-150

8-350 6-150

12-3/0 2.5-70

10-14 4-1.5

MRI-M142391-FIN-00-A.DWG

- Ground

strip

strip

RF common ground stud (do

not ground RF room to any point other than the PDU)

RF shield

_ Cable SUPPLIED by CUSTOMER

Equipment SUPPLIED by CUSTOMER

Equipment SUPPLIED by GE

Rtotal =

| Rev A | Date 08/May/2019 | E5 - Power Requirements | 22/23

Resistance =

Cable SUPPLIED by GE - Customer Installed

MAIN FEEDER CALCULATION

Continuous Power

Vph-ph * √3

Irms * 1.25

Peak Power

Vph-ph * √3

Vph-ph * 4%

Vloss

lpk * √3

Rtotal

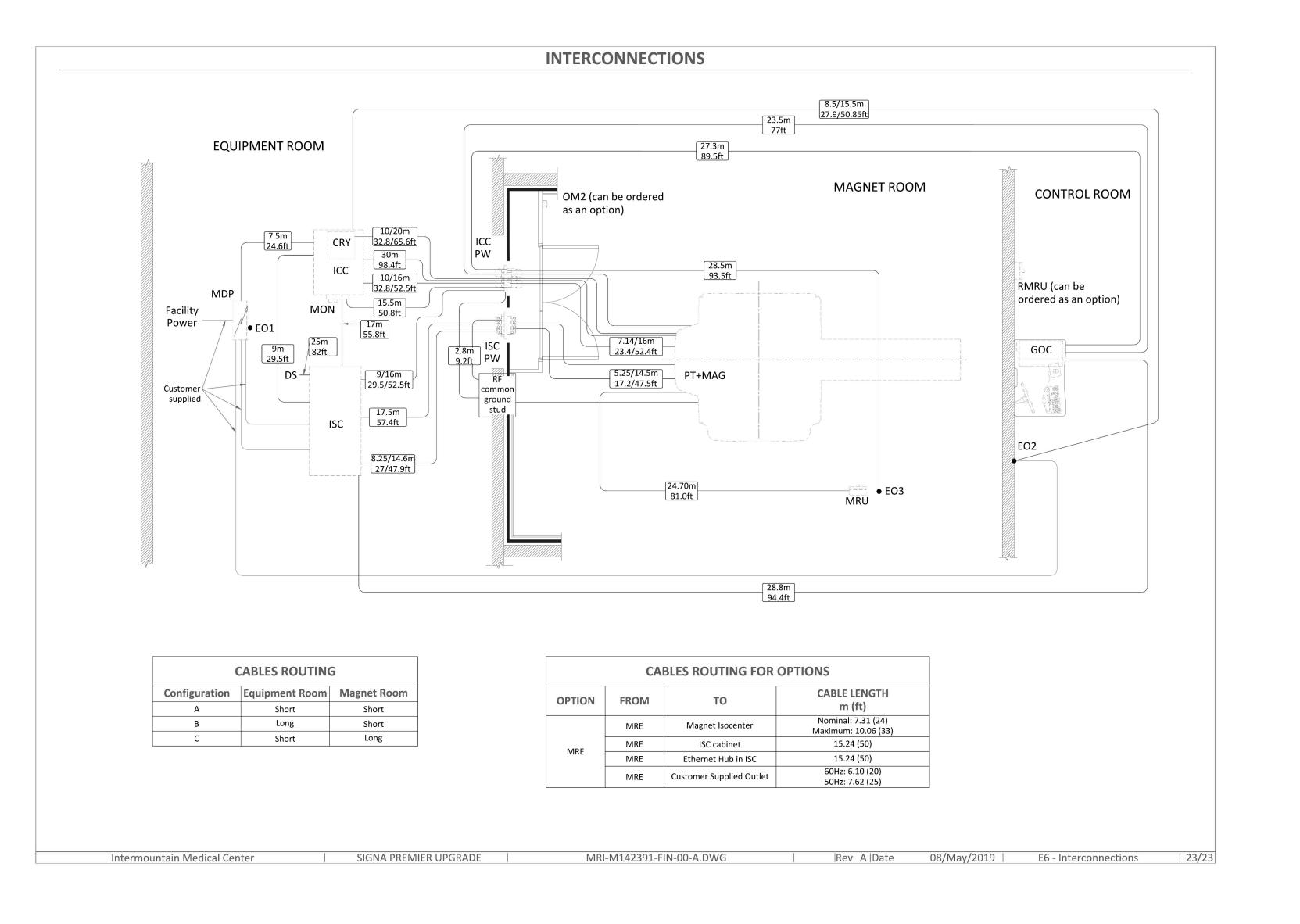
Cable length

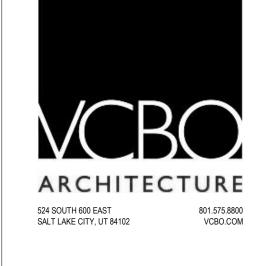
Run M3030

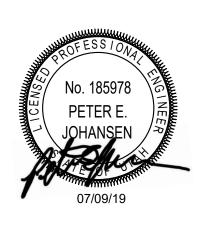
Magnet Room "Emergency Off" Button (E01)

□NC

buss bar







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| |

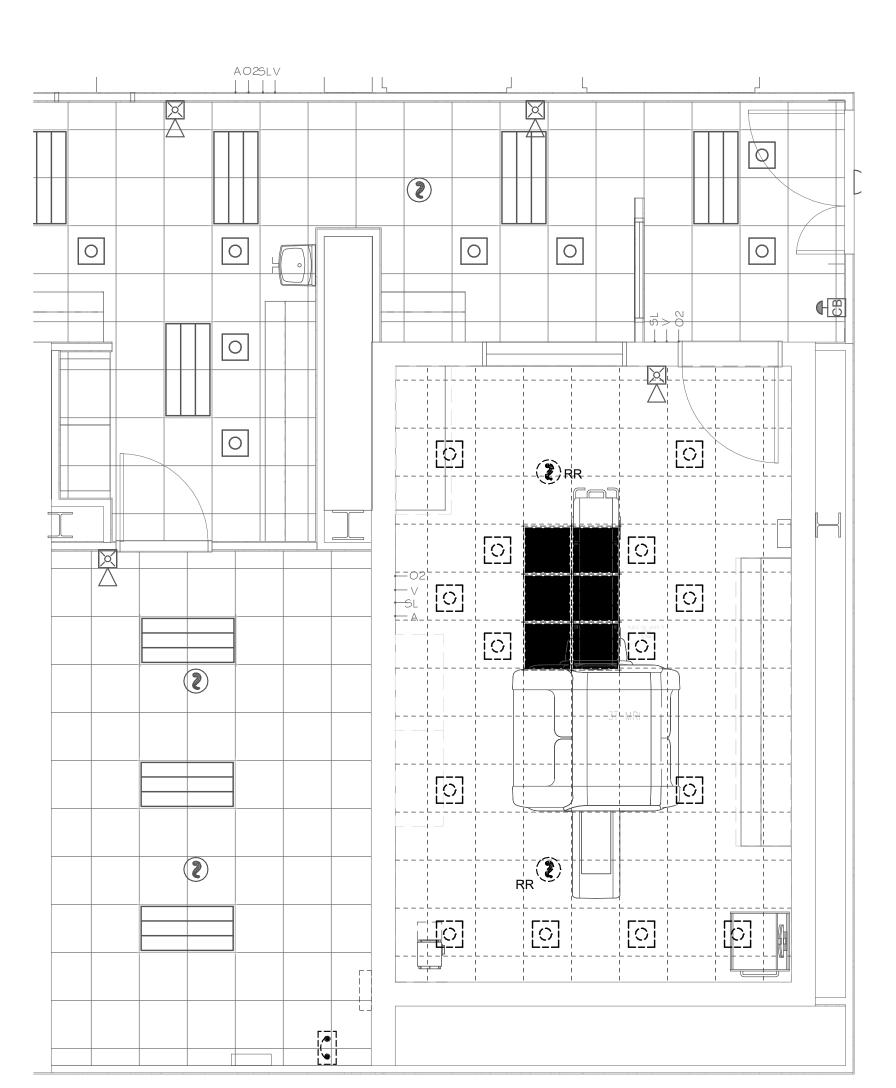
DATE DESCRIPTION

19480 00000 07/15/2019

IMED BUILDIN

LOWER LEVEL 1 ELECTRICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



LOWER LEVEL 1 CEILING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

- 1 UNLESS OTHERWISE INDICATED, REMOVE ALL LIGHTING FIXTURES, OUTLETS, DEVICES AND EQUIPMENT IN HATCHED AREAS. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO THE PANELBOARD OF ORIGINATION. SYSTEMATICALLY CHECK EACH BRANCH PANELBOARD CIRCUIT TO VERIFY EACH THAT CIRCUIT BREAKER NO LONGER HAS ANY ACTIVE LOADS, DISCONNECT THE WIRING AND TURN THE CIRCUIT BREAKER OFF. ANY REMAINING ACTIVE LOADS SHALL BE LABELED AT THE PANELBOARD AS TO WHAT LOAD IS SERVED.
 - 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.
- 3 SALVAGE ALL POWER POLES, LIGHT FIXTURES, TWIST-LOCK RECEPTACLES AND WALLPLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO OWNER. PROTECT SALVAGED EQUIPMENT FROM DAMAGE.
- 4 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.
- PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
- REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED.
 WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, REROUTE THE
 RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.
- 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.
- 8 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.
- 9 DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.

○ SHEET KEYNOTES

- REMOVE EXISTING LIGHTING CONTROLS FOR MRI 3T EXAM ROOM #2.
- 2 REMOVE EXISTING DISCONNECT PANEL FOR MRI.





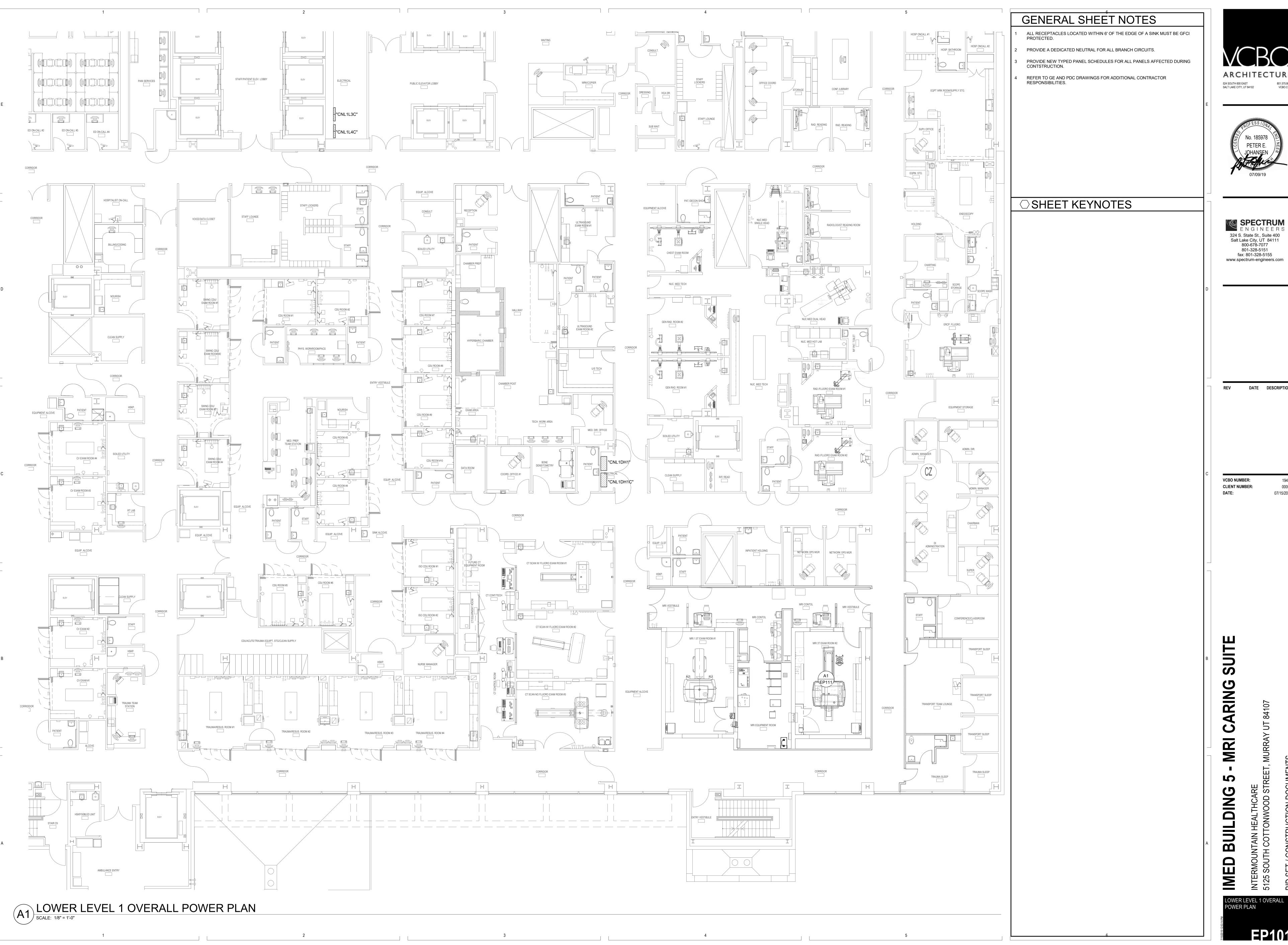
SPECTRUM ENGINEERS

> 19[,] 00(07/15/2)

BUILDING 5 - MRI CARING SUITE

IMED INTERMOUT 5125 SOUT

ED111

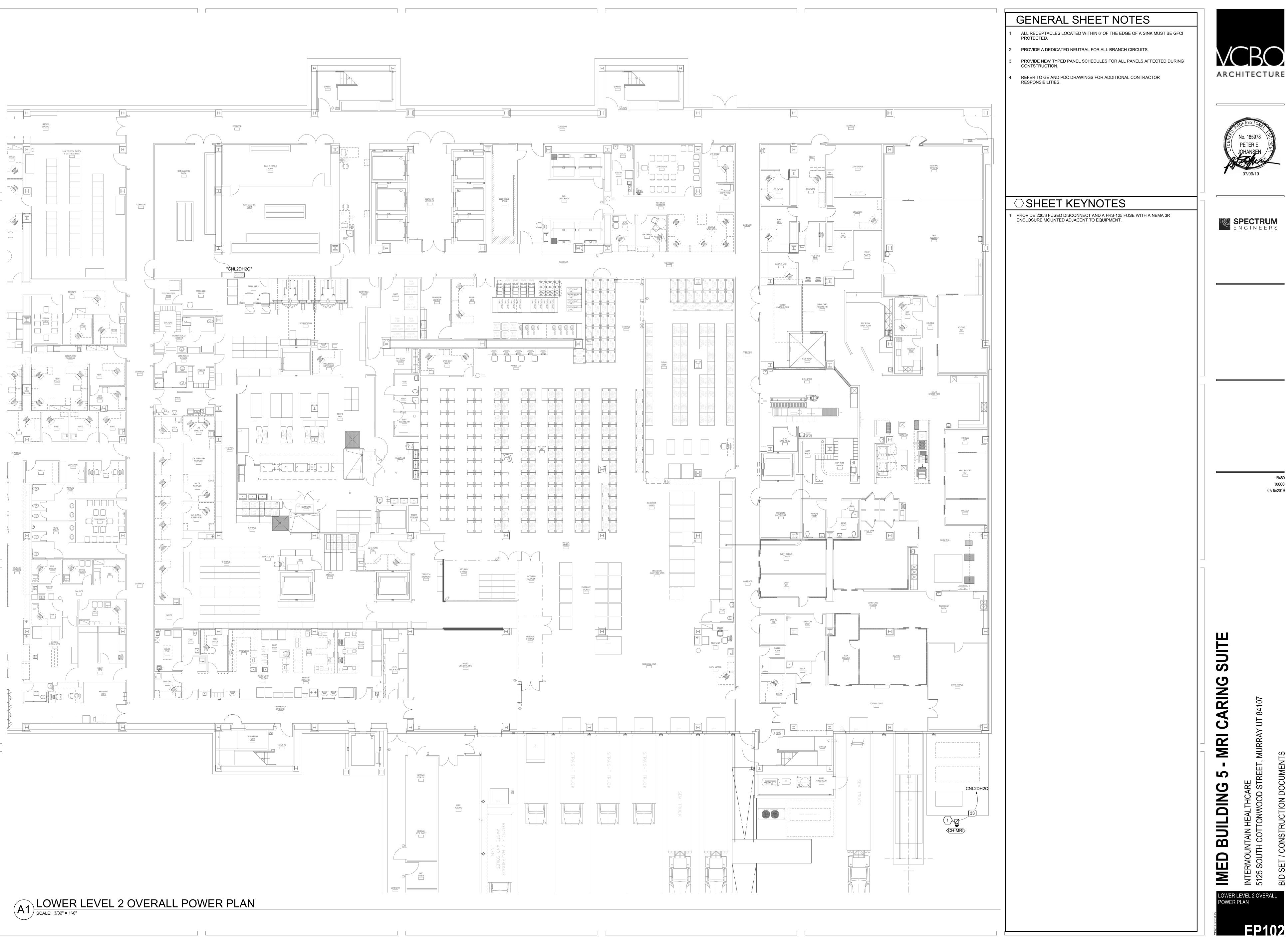


ARCHITECTURE 524 SOUTH 600 EAST SALT LAKE CITY, UT 84102



DATE DESCRIPTION

EP101





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EP102

GENERAL SHEET NOTES

- 1 ALL RECEPTACLES LOCATED WITHIN 6' OF THE EDGE OF A SINK MUST BE GFCI PROTECTED.
- 2 PROVIDE A DEDICATED NEUTRAL FOR ALL BRANCH CIRCUITS.
- 3 PROVIDE NEW TYPED PANEL SCHEDULES FOR ALL PANELS AFFECTED DURING CONTSTRUCTION.
- 4 REFER TO GE AND PDC DRAWINGS FOR ADDITIONAL CONTRACTOR RESPONSIBILITIES.

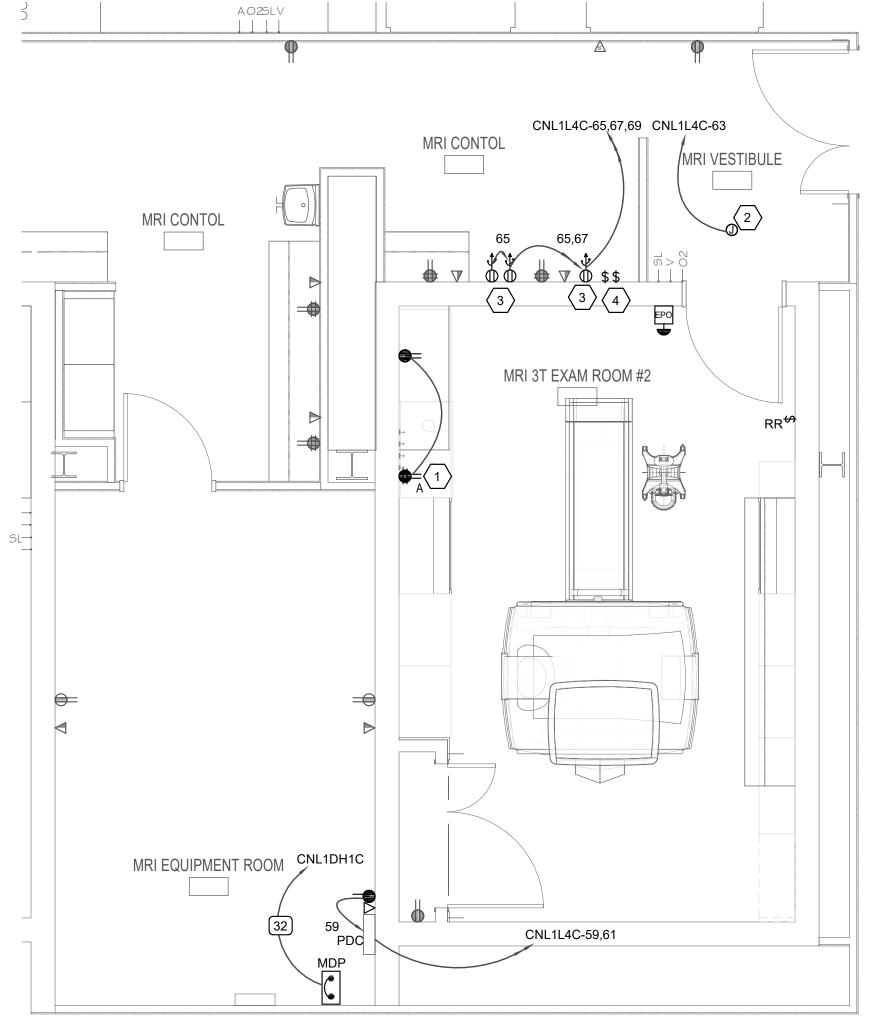




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○ SHEET KEYNOTES

- CIRCUIT NEW FOUR-PLEX TO THE SAME CIRCUIT THAT FED THE FOUR-PLEX THAT WAS DEMOLISHED.
- 2 PROVIDE 120V CIRCUIT TO RF DOOR CONTROL BOX.
- 3 PROVIDE UBS8200XX WALL OUTLETS.
- 4 PROVIDE LEVITON 1081 OR EQUIVALENT WALL SWITCHES.



LOWER LEVEL 1 POWER PLAN

SCALE: 1/4" = 1'-0"

1948 0000 07/15/201

VG 5 - MRI CARING SUITE

INTERMOUNTAIN HEALTHCARE 5125 SOUTH COTTONWOOD STREET, MURRAY

LOWER LEVEL 1 POWER PLAN

- GROUNDING CONDUCTOR TO BE THE SAME
- SIZE AS CURRENT CARRYING CONDUCTORS. MRI MDP WILL BE FURNISHED WITH MRI EQUIPMENT, AND INSTALLED BY ELECTRICAL CONTRACTOR.
- PROVIDE NEW CIRCUIT BREAKER IN EXISTING GE DISTRIBUTION PANEL.





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DATE DESCRIPTION

CLIENT NUMBER:

07/15/2019 DATE:

ARING

BUILDIN

IMED **ONE-LINE DIAGRAM**

BRANCH CIRCUIT CONDUCTOR AND CONDUIT SIZING TABLE

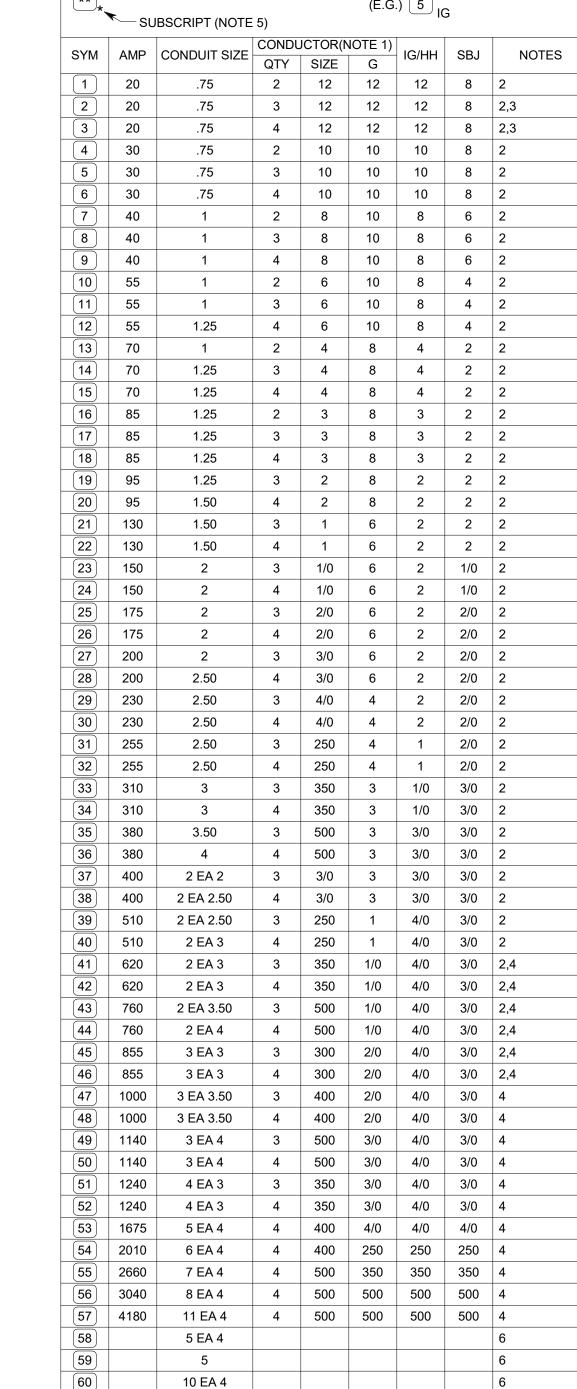
| AND OC | | | \DLL |
|-----------------------------|-------------------|---|------------|
| CIRCUIT AMPACITY/VOLTAGE | CIRCUIT LENGTH | CONDUCTOR SIZE (PHASE, NEUTRAL AND GR) | CONDUIT SI |
| AWFACTIT/VOLTAGE | LLINGIII | , , | |
| 20A/120V | 0' - 60' | #12 AWG | 0.75" Ø |
| 20A/120V | 60' - 95' | #10 AWG | 0.75" Ø |
| 20A/120V | 95' - 150' | #8 AWG | 1" Ø |
| 20A/120V | 150' - 240' | #6 AWG | 1.25" Ø |
| 20A/277V | 0' - 140' | #12 AWG | 0.75" Ø |
| 20A/277V | 140' - 220' | #10 AWG | 0.75" Ø |
| 20A/277V | 220' - 350' | #8 AWG | 1" Ø |
| 20A/277V | 350' - 550' | #6 AWG | 1.25" Ø |
| | | • | • |

- 1. WIRE SIZING IS BASED ON COPPER CONDUCTORS SUPPLYING A 20A, 120V CIRCUIT AT THE INDICATED VOLTAGE, ASSUMED TO BE 80% LOADED (16A), WITH MAXIMUM VOLTAGE DROP OF 3% AT THE LOAD.
- 2. DOWN-SIZED WIRE AT DEVICE/LOAD AS REQUIRED AND TERMINATE CONDUCTORS IN A SAFE AND CODE COMPLIANT MANNER.
- 3. CONDUIT SIZE IS BASED ON A MAXIMUM OF 3 CIRCUITS PER CONDUIT, EACH WITH A SEPARATE NEUTRAL CONDUCTOR.

COPPER CONDUCTOR AND CONDUIT SCHEDULE

(E.G.) 5 IG

- SCHEDULE NUMBER



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.
- 3. PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING
- 4. 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 IG/HH SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.
 - "IG": INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR) SCHEDULED ALONG WITH GROUND OF EQUIPMENT GROUND

6. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

"SBJ": SUBSTITUTE "SBJ" CONDUCTOR FOR "G" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE SYSTEM BONDING JUMPER OF THE SEPARATELY DERIVED SYSTEM.

2 NEW WORK ONE-LINE
SCALE: NTS

FLUORO RAD SCAN RAD EXAM

EXISTING PANEL "CNL1DH1"

EXISTING PANEL "CNL2DH2Q"

600A, 277/480V, 3 PHASE, 4W

800A, 277/480V, 3 PHASE, 4W

100/3 100/3 125/3 100/3 100/3 125/3 175/3 250/3

GEN CHEŠT MRI

 $\langle , \rangle \langle ,$

30/3 (25/3 (25/3 (25/3 (50/3

WDS01 WDS02 WDS02 WDS02 WDS02 WC01 DTCN6 K-6 K-4

¹ 350/3 ¹ 60/3 ¹ 70/3 ¹ 125/3

250/3 MMDP (MRI#1) 2

√ 60/3

PDU

PDU

FRS-125

CHILLER

DEMOLITION ONE-LINE

EXAM SCAN

EXISTING PANEL "CNL1DH1"

600A, 277/480V, 3 PHASE, 4W

GEN RAD GEN RAD CHEST CT

100/3 100/3 100/3 100/3 100/3 100/3 125/3

EXISTING EXISTING

LOWER LEVEL 1 LIGHTING PLAN

SCALE: 1/4" = 1'-0"

ARCHITECTURE



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○ SHEET KEYNOTES

1 LIGHTING TO BE PROVIDED BY PDC AND INSTALLED BY CONTRACTOR. REFER TO PDC DRAWINGS.



IMED BUILDIN

GENERAL SHEET NOTES ○ SHEET KEYNOTES BUILDIN

MRI EQUIPMENT ROOM LOWER LEVEL 1 AUXILIARY PLAN

SCALE: 1/4" = 1'-0" 524 SOUTH 600 EAST 801.575.8800 SALT LAKE CITY, UT 84102 VCBO.COM



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REV DATE DESCRIPTION

IMED **EY111**