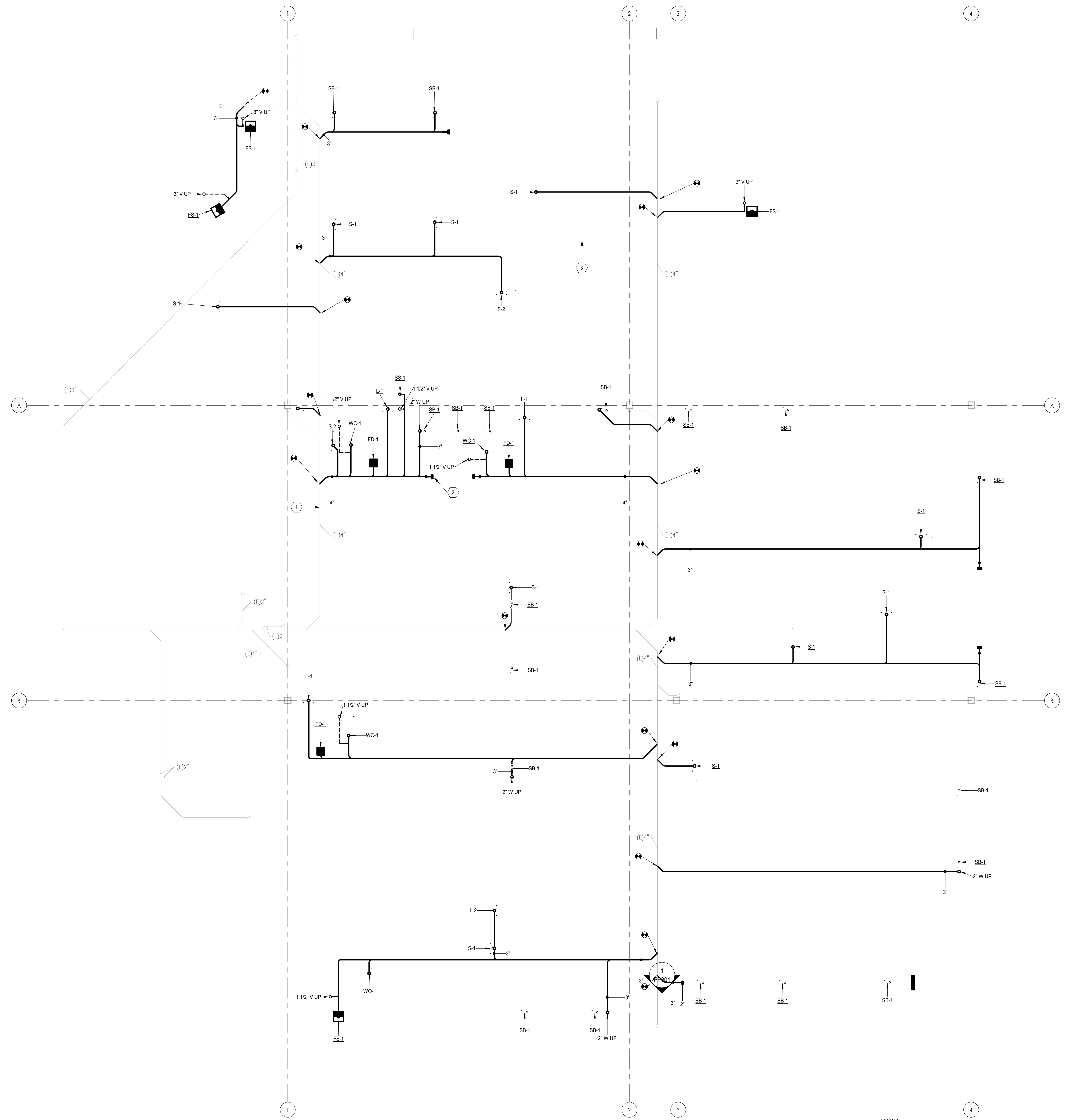




- KEYED NOTES**
- EXISTING ELEMENTS SHOWN LIGHT, TYPICAL.
 - CONTRACTOR RESPONSIBLE FOR COORDINATING AND LOCATING ALL CLEANOUTS PER CODE IN ADDITION TO CLEANOUTS CALLED OUT ON PLANS, TYPICAL.
 - WALLS SHOWN FROM ABOVE, TYPICAL.



1 BELOW GRADE PLUMBING PLAN
SCALE: 1/4" = 1'-0"

Intermountain Healthcare
Dialysis Clinic Expansion

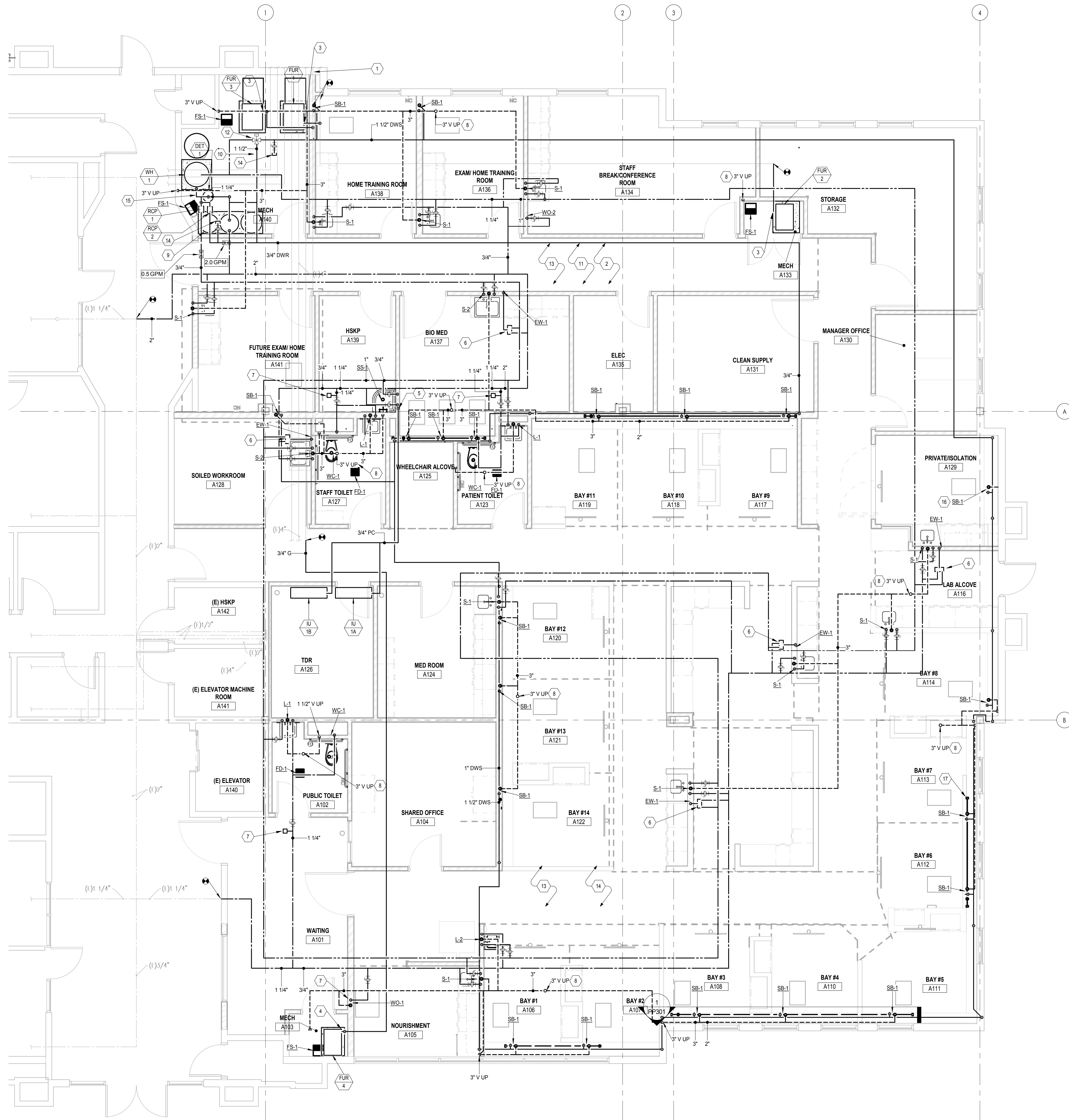
400 East 2400 South
Tooele, Utah 84074

NJRA Project # 19230.00
Construction Documents February 03, 2020

BELOW
GRADE
PLUMBING
PLAN

PP100

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- KEYED NOTES**
- EXISTING ELEMENTS SHOWN LIGHT TO REMAIN, TYPICAL.
 - INSTALL NEW FIRE SPRINKLERS.
 - RELOCATE EXISTING PRV
 - INSTALL NEW 4 OZ PRV.
 - DROP DOWN WALL AND TERMINATE IN SERVICE SINK.
 - THERMOSTATIC MIXING VALVE INSTALLED IN CEILING.
 - PROVIDE HAMMER ARRESTOR ON ALL FAST ACTING VALVES, TYPICAL.
 - FIELD VERIFY LOCATION OF EXISTING VENT LINES PENETRATING LEVEL 2 FLOOR. CONNECT NEW VENT LINES TO EXISTING VENT LINES PENETRATING LEVEL 2 FLOOR. RUN ADDITIONAL PIPING AS NECESSARY.
 - OWNER PROVIDED WATER SOFTENER.
 - CONNECT TO OWNER PROVIDED WATER SOFTENER.
 - ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE THROUGHOUT EACH REMODELED COMPARTMENT. TYPICAL. FIRE SPRINKLERS SHALL BE INSTALLED TO MEET NFPA 13-2016 REQUIREMENTS, TYPICAL.
 - INSTALL THERMOSTATIC MIXING VALVE FOR REVERSE OSMOSIS APPLICATIONS.
 - INSTALL FIRE SPRINKLER SPRINKLERS AND PIPING AS NECESSARY FOR THE REMODELED SPACE, INCLUDING NEW FLOOR PLAN, CEILING PLAN, AND CEILING HEIGHT ADJUSTMENTS. REFER TO THE ARCHITECTURAL SHEETS FOR COMPLETE SCOPE OF THE PROJECT.
 - VALVE AND CAP FOR OWNER TO CHLORINATE LINE.
 - CONNECT RETURN LINE TO WATER HEATER PER MANUFACTURER RECOMMENDATIONS.
 - SEE ARCHITECTURAL PLANS FOR ELEVATION AND EXACT LOCATION OF SUPPLY BOX, TYPICAL.
 - TYPICAL CLEANOUT, SEE PP301 FOR SECTION.



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Intermountain Healthcare
Dialysis Clinic Expansion

400 East 2400 South
 Tooele, Utah 84074

NJRA Project # 19230.00
 Construction Documents February 03, 2020

LEVEL 1
 PLUMBING
 PLAN

PP101

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

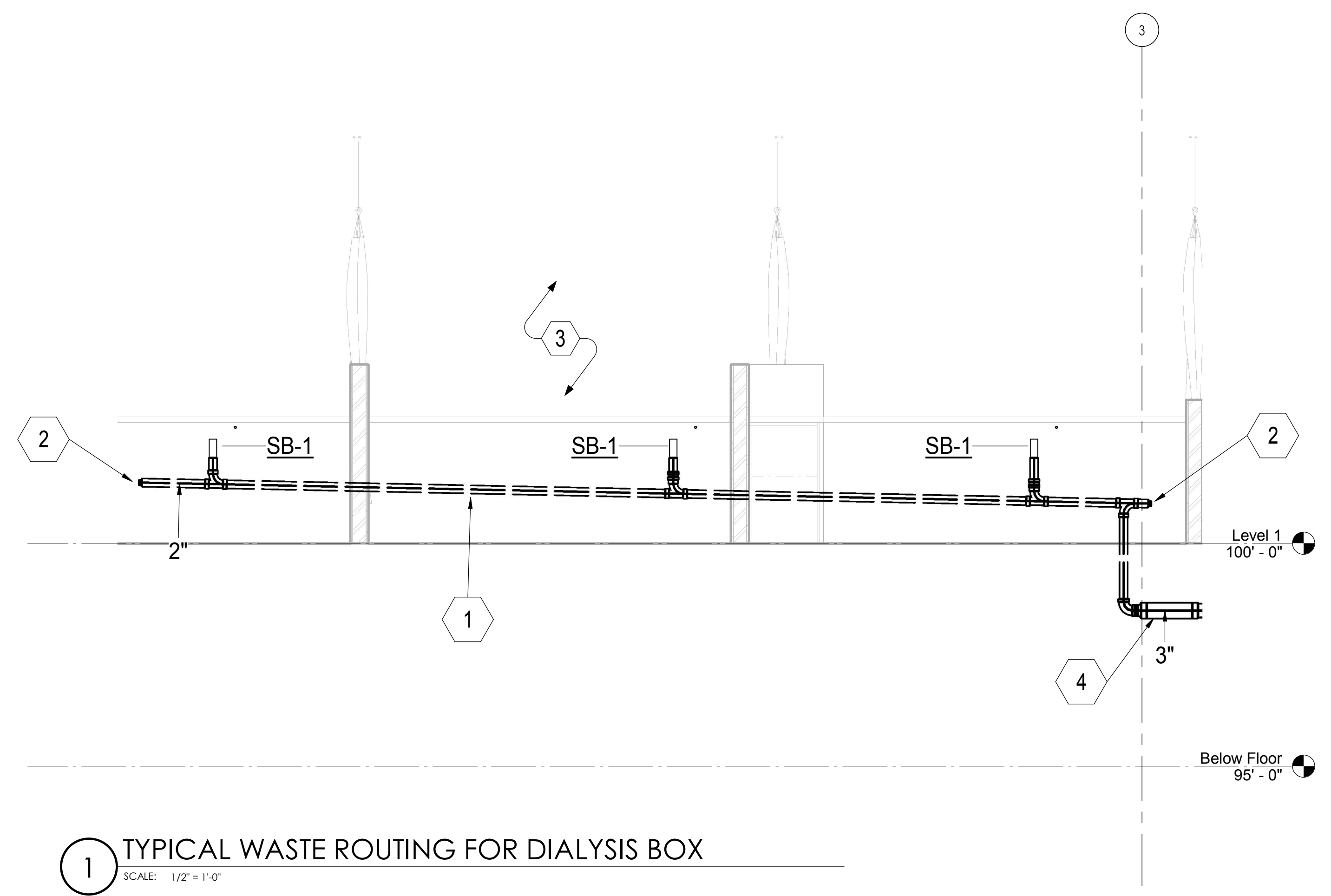


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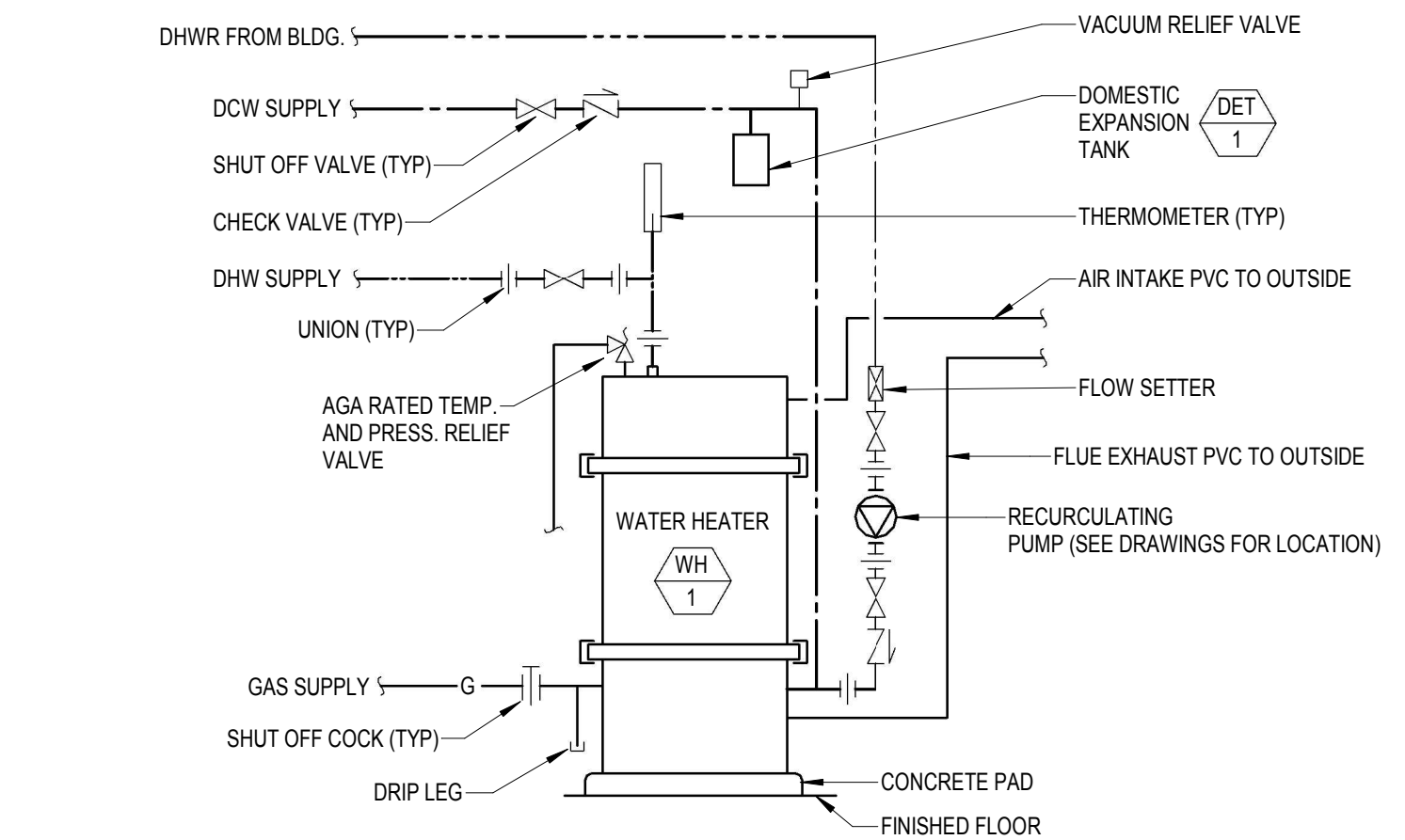


KEYED NOTES

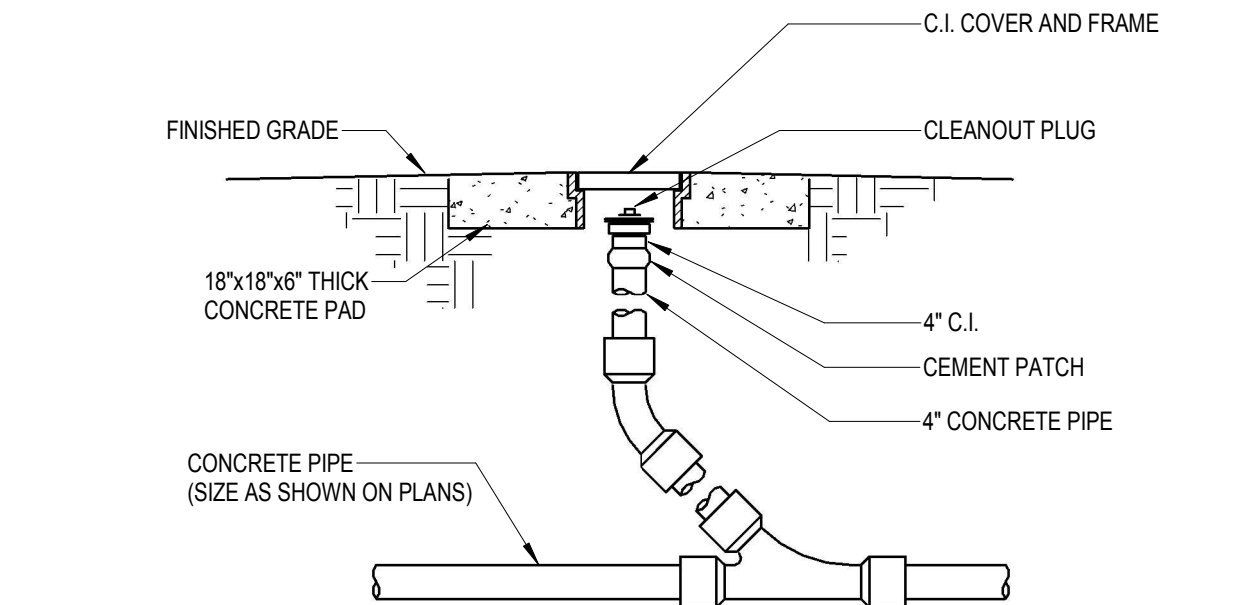
1. INSTALL PIPE WITH A 1/4 INCH PER FOOT SLOPE.
2. PROVIDE CLEANOUT ON BOTH THE HIGH AND LOW SIDE. COORDINATE FINISHED LOCATION WITH ARCHITECT.
3. CONTRACTOR RESPONSIBLE FOR COORDINATING DIALYSIS LOOP PIPING AND VENT LINES WITH ALL OTHER PIPE LINES IN WALL, TYPICAL.
4. BELOW GRADE PIPING SHALL BE SIZED AT 3" WITH A 1/8 INCH PER FOOT SLOPE.



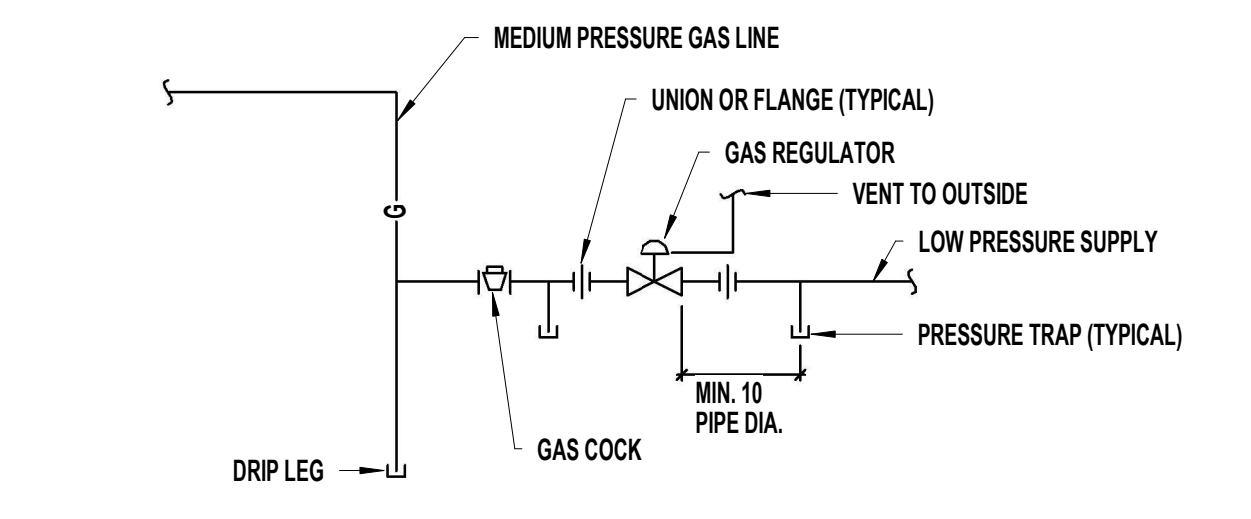
1 TYPICAL WASTE ROUTING FOR DIALYSIS BOX
SCALE: 1/2" = 1'-0"



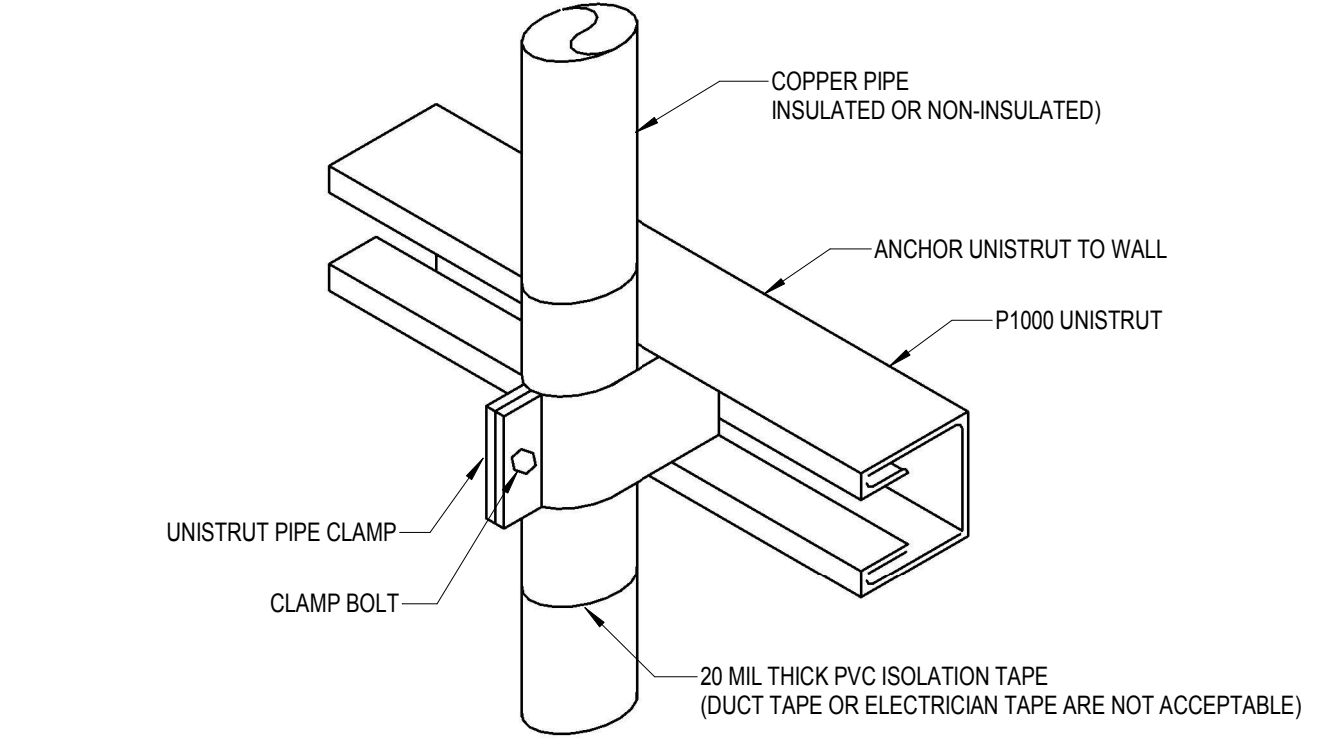
6 WATER HEATER DETAIL
SCALE: 1/2" = 1'-0"



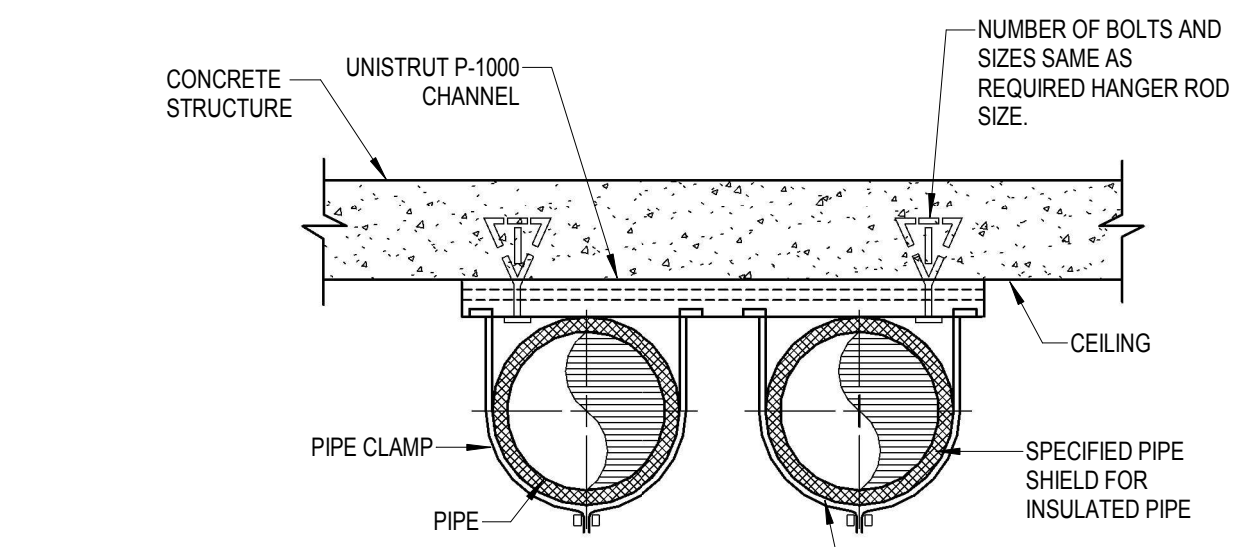
1 CLEANOUT TO GRADE DETAIL (COTG)
SCALE: 1/2" = 1'-0"



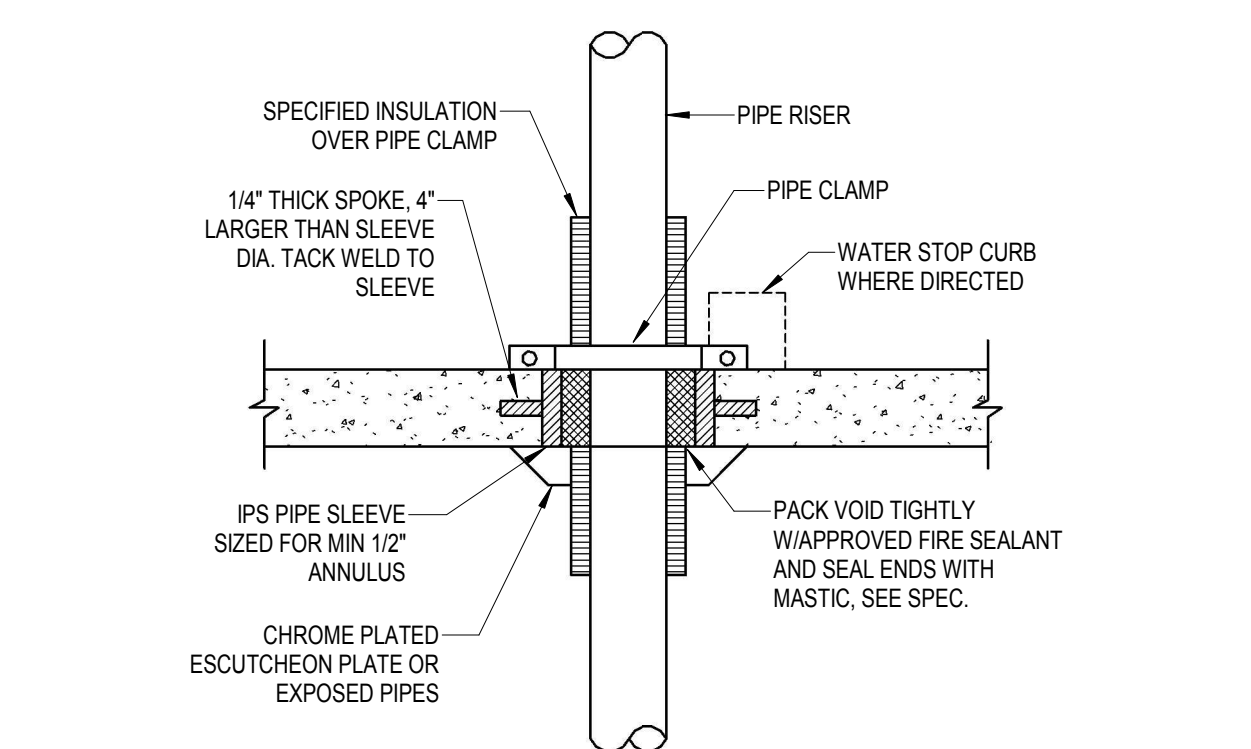
2 MEDIUM-TO-LOW PRESSURE GAS REGULATOR DETAIL
SCALE: 1/2" = 1'-0"



3 PIPE SUPPORT DETAIL
SCALE: 1/2" = 1'-0"



4 PIPE SUPPORT ON CEILING
SCALE: 1/2" = 1'-0"



5 PIPE THROUGH FLOOR SLAB DETAIL
SCALE: 1/2" = 1'-0"



PLUMBING FIXTURE SCHEDULE

wt	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	DESCRIPTION	SPECIFICATION
EW-1	EMERGENCY EYEWASH	1/2	1/2	---	---	COUNTER MOUNTED, TEPID WATER	GUARDIAN G5022BP EYEWASH/DRENCH HOSE DECK MOUNTED UNITS WITH SLOAN ETF-470-A SINGLE CHECK VALVES ON HOT AND COLD LINES AND GUARDIAN G3600LF THERMOSTATIC MIXING VALVE. INSTALL THE EYEWASH/DRENCH HOSE UNIT ON THE COUNTER NEXT TO THE SINK. INSTALL THE MIXING VALVE ABOVE THE CEILING WITH THE OUTLET TEMPERATURE SET TO 75-80°F.
FD-1	FLOOR DRAIN	---	---	2	1-1/2	FLOOR DRAIN	FLOOR DRAIN: SMITH FIGURE 2005Y-P050 FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6-INCH ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE. PROVIDE TRAP GUARD TYPE TRAP SEAL DEVICE.
FS-1	MECHANICAL ROOM FLOOR SINK	---	---	3	1-1/2	MECHANICAL ROOM FLOOR SINK	FLOOR SINK: SMITH FIGURE 3100Y CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT INTERIOR COATING, NICKEL BRONZE RIM AND SECURED 1/2 GRATE AND ALLUMINUM DOME BOTTOM STRAINER.
L-1	PUBLIC TOILET ROOM LAVATORY	1/2	1/2	1-1/2	1-1/2	WALL HUNG, VITREOUS CHINA, GOOSENECK FAUCET WITH WRISTBLADES	LAVATORY: KOHLER K2030, GREENWICH, 20" X 18", VITREOUS CHINA, WITH FRONT OVERFLOW, 8" CENTERS, CHICAGO 786-GN2FCXKABCP FAUCET, WITH WRIST BLADE HANDLES, GN2 5-1/4" RIGID/SWING GOOSENECK WITH PLAIN END SPOUT AND 0.5 GPM LAMINAR FLOW CONTROL IN SPOUT INLET. WATTS LFUSG-B-M2 THERMOSTATIC MIXING VALVE WITH SLOAN ETF-470-A SINGLE CHECK VALVES ON HOT AND COLD LINES. FLEXIBLE STAINLESS STEEL SUPPLIES WITH 1/4 TURN ANGLE STOPS. CHICAGO 327-XCP OPEN-GRID STRAINER AND CAST BRASS P-TRAP WITH CLEANOUT PLUG. SMITH 0700-Z CONCEALED ARM CHAIR CARRIER WITH FOOT SUPPORT. PROVIDE ADA COMPLIANT UNDER COUNTER PIPING WRAP BY TRUE-BRO, COLOR TO BE WHITE.
L-2	LAVATORY	1/2	1/2	1-1/2	1-1/2	WALL HUNG, VITREOUS CHINA, GOOSENECK FAUCET WITH WRISTBLADES	LAVATORY: KOHLER K2030, GREENWICH, 20" X 18", VITREOUS CHINA, WITH FRONT OVERFLOW, 8" CENTERS, CHICAGO 786-GN2FCXKABCP FAUCET, WITH WRIST BLADE HANDLES, GN2 5-1/4" RIGID/SWING GOOSENECK WITH PLAIN END SPOUT AND 1.5 GPM LAMINAR FLOW CONTROL IN SPOUT INLET. WATTS LFUSG-B-M2 THERMOSTATIC MIXING VALVE WITH SLOAN ETF-470-A SINGLE CHECK VALVES ON HOT AND COLD LINES. FLEXIBLE STAINLESS STEEL SUPPLIES WITH 1/4 TURN ANGLE STOPS. CHICAGO 327-XCP OPEN-GRID STRAINER AND CAST BRASS P-TRAP WITH CLEANOUT PLUG. SMITH 0700-Z CONCEALED ARM CHAIR CARRIER WITH FOOT SUPPORT. PROVIDE ADA COMPLIANT UNDER COUNTER PIPING WRAP BY TRUE-BRO, COLOR TO BE WHITE.
S-1	TYPICAL SINK	1/2	1/2	2	1-1/2	INTEGRAL, GOOSENECK FAUCET WITH WRISTBLADES	SINK: INTEGRAL SINK, CHICAGO 895-317GN2FCXKABCP FAUCET, WITH WRIST BLADE HANDLES, 5-1/4" GN2 RIGID/SWING GOOSENECK SPOUT WITH 1.5 GPM LAMINAR FLOW CONTROL IN SPOUT INLET. WATTS LFUSG-B-M2 THERMOSTATIC MIXING VALVE WITH SLOAN ETF-470-A SINGLE CHECK VALVES ON HOT AND COLD LINES. FLEXIBLE STAINLESS STEEL SUPPLIES WITH 1/4 TURN ANGLE STOPS AND CAST BRASS P-TRAP WITH CLEANOUT PLUG. REPLACE QUATURN COMPRESSION OPERATING CARTRIDGE WITH CERAMIC 1/4-TURN OPERATING CARTRIDGE. PROVIDE WITH PLAIN END SPOUT.
S-2	WORKROOM SINK	1/2	1/2	2	1-1/2	ADA, COUNTER MOUNTED, STAINLESS STEEL, GOOSENECK FAUCET WITH WRISTBLADES	SINK: JUST SLN-ADA-2131-A-GR 16" X 28" X 6-1/2" I.D. COUNTER MOUNT 18 GA. STAINLESS STEEL SINK WITH 3 HOLE 8" CENTERS DRILLING, INTEGRA STAINLESS STEEL FLAT GRID AND REAR CENTER DRAIN LOCATION. CHICAGO 786-GN2FCXKABCP FAUCET, WITH WRIST BLADE HANDLES, 8" GN2 RIGID/SWING GOOSENECK SPOUT WITH 1.5 GPM LAMINAR FLOW CONTROL IN SPOUT INLET. WATTS LFUSG-B-M2 THERMOSTATIC MIXING VALVE WITH SLOAN ETF-470-A SINGLE CHECK VALVES ON HOT AND COLD LINES. FLEXIBLE STAINLESS STEEL SUPPLIES WITH 1/4 TURN ANGLE STOPS AND CAST BRASS P-TRAP WITH CLEANOUT PLUG.
SB-1	SUPPLY BOX	3/4	---	2	1-1/2	SINGLE TEMP HOSE BOX, WASTE OUTLET, VACUUM BREAKER	HOSE AND SUPPLY BOX: ACORN 8181 STAINLESS STEEL RECESSED SUPPLY AND WASTE HOSE BOX WITH VACUUM BREAKER 3/4" MALE HOSE THREAD AND WHEEL HANDLE. PROVIDE WITH ABS P-ASSEMBLY.
SS-1	CORNER MOUNTED SERVICE SINK	1/2	1/2	3	1-1/2	CORNER FLOOR MOUNTED	SERVICE SINK (FLOOR MOUNTED): KOHLER K6710, WHITBY, 28 X 28-INCH, ENAMELED CAST IRON FLOOR-MOUNTED CORNER MODEL, K9146-3" DRAIN WITH STRAINER, NO. K8940 REMOVABLE VINYL-COATED RIM GUARD; CHICAGO 897-CP FAUCET WITH VACUUM BREAKER, SCREWDRIIVER STOPS IN SHANKS, 5 FOOT RUBBER HOSE AND CHICAGO 853 WALL HOOK. WATTS LFUSG-B-M2 THERMOSTATIC MIXING VALVE. WATTS # 7 DUAL CHECK VALVES ON HOT AND COLD LINES, INSTALLED IN CEILING ABOVE SERVICE SINK WITH ACCESS DOOR IF HARD CEILING.
WC-1	TYPICAL FLOOR MOUNTED WATER CLOSET	1	---	4	2	FLOOR MOUNTED	WATER CLOSET: KOHLER K-96057 HIGHCLIFF ULTRA VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL, 1-1/2" TOP SPUD, ADA TOILET WITH K-4670-C LUSTRA OPEN-FRONT SEAT. SLOAN ROYAL-111-1.28 GPF FLUSH VALVE; INSTALL ACTUATOR ON WIDE SIDE OF FIXTURE.
WO-1	WATER OUTLET	1/2	---	2	1-1/2	FLUSH MOUNTED IN WALL, WATER SUPPLY, DRAIN	WATER OUTLET BOX: WATER-TITE 82148 WASHING MACHINE OUTLET BOX WITH DRAIN QUARTER TURN BALL VALVE WITH WATER ARRESTOR FOR USE WITH ICE MACHINE. INSTALL ONLY COLD WATER BALL VALVE. NOTCH COUNTERTOP BACK-SPLASH AND INSTALL OUTLET BOX DRAIN FLUSH WITH COUNTERTOP. MATCH ARCHITECTURAL ELEVATIONS.
WO-2	WATER OUTLET	1/2	---	---	---	FLUSH MOUNTED IN WALL, WATER SUPPLY	FRIDGE CONNECTION: WATER-TITE AB9700HACP WATER OUTLET BOX WITH QUARTER TURN BALL VALVE AND WATER HAMMER ARRESTOR.

GAS FIRED WATER HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	INPUT LOAD (BTUH)	EFFICIENCY (%)	TYPE	RECOVERY RATE @ 100°F DELTA T	TANK SIZE (GAL)	FLUE SIZE (IN)	HEIGHT, DIAMETER (IN)	VIPH	NOTES
WH-1	AO SMITH BTH-199	MECH (A140)	199900	97	N GAS	235	100	4	77/28	120/1	1

1. PROVIDE WITH CONCENTRIC VENT SET.
2. SET LEAVING DISCHARGE TEMPERATURE FOR WATER HEATER TO 140 DEGREE FAHRENHEIT.

RECIRCULATION PUMP SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID FLOW RATE (GPM)	WORKING FLUID	HEAD LOSS (FT)	CONSTRUCTION	ELECTRICAL MOTOR SIZE (HP)	MOTOR SPEED (RPM)	VOLTPH/Hz	NOTES
RCP-1	B&G PR 34	MECH A140	DOMESTIC	0.5	WATER	5	LEAD-FREE BRONZE	1/6	1725	115/1/60	
RCP-2	B&G PR34	MECH A140	DOMESTIC	2	WATER	5	LEAD-FREE BRONZE	1/6	1725	115/1/60	

DOMESTIC EXPANSION TANK SCHEDULE

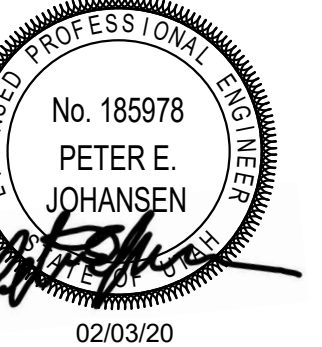
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID	WORKING FLUID	MIN. TANK ACCEPTANCE (GAL)	TANK SIZE (GAL)	RELIEF VALVE (PSIG)	DIA./HEIGHT (IN)	NPT FITTING (IN)	NOTES
DET-1	AMTROL ST-12-C	MECH A140	DOMESTIC	WATER	WATER	0.9	2	150	12/18	0.75	1

1. TANK LINER SUITABLE FOR POTABLE WATER

PIPING MINIMUM INSULATION THICKNESS

TEMPERATURE RANGE (°F)	CONDUCTIVITY, BTU-IN/H-F-T2 OF	MEAN RATING TEMPERATURE OF	PIPE SIZE (IN)					NOTES
			<1	1 to >1-1/2	1-1/2 to <4	4 to <8	8 & Larger	
>350	0.32 TO 0.34	250	4.5	5.0	5.0	5.0	5.0	12.3.4
251-350	0.29 TO 0.32	200	3.0	4.0	4.5	4.5	4.5	12.3.4
201-250	0.27 TO 0.30	150	2.5	2.5	2.5	3.0	3.0	12.3.4
141-200	0.25 TO 0.29	125	1.5	1.5	2.0	2.0	2.0	12.3.4
105-140	0.22 TO 0.28	100	1.0	1.0	1.5	1.5	1.5	12.3.4
40-60	0.21 TO 0.27	75	0.5	0.5	1.0	1.0	1.0	12.3.4
>40	0.20 TO 0.26	50	1.0	1.0	1.0	1.5	1.5	12.3.4

1. INSULATION THICKNESS FOR RUNOUT PIPING BETWEEN THE CONTROL VALVE AND HVAC EQUIPMENT MAY BE REDUCED TO 1"
2. INSULATION THICKNESS FOR PIPING LOCATED OUTDOORS OR EXPOSED TO OUTSIDE AIR SHALL BE INCREASED BY 1".
3. WHERE SCHEDULED THICKNESS DIFFERS FROM SPECIFICATIONS THE THICKER DIMENSION SHALL BE USED.
4. REFER TO ASHRAE 90.1-2016 TABLE 6.8.3.1 AND 6.8.3.2 FOR ADDITIONAL INFORMATION.

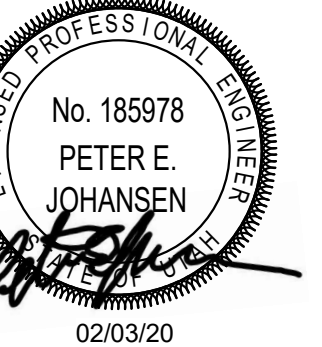


SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
30	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
31	TRANSFER SWITCH (ONE-LINE DIAGRAM).
33	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
33	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
34	GENERATOR, ANNUNCIATOR (ONE-LINE DIAGRAM).
35	GENERATOR, POWER (ONE-LINE DIAGRAM).
36	METER.
37	BROAD BAND FILTER (ONE-LINE DIAGRAM).
38	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
39	DIODE (ONE-LINE DIAGRAM).
40	AERIAL SERVICE WEATHER HEAD (ONE-LINE DIAGRAM).
41	DISCONNECT SWITCH, FUSED.
42	DISCONNECT SWITCH, UNFUSED.
43	STARTER, COMBINATION WITH DISCONNECT SWITCH.
44	STARTER OR MOTOR CONTROLLER.
45	PUSHBUTTON.
46	PUSHBUTTONS, MOTOR CONTROL.
47	PANELBOARD CABINET, FLUSH MOUNTED.
48	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
49	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
50	DISTRIBUTION PANEL OR SWITCHBOARD.
51	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
52	LIGHTING CONTROL STATION.
53	DIMMING ENTRY STATION OR CONTROL STATION, FLUSH MOUNTED.
54	CENTRAL PROCESSOR UNIT.
55	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
56	TRANSFORMER: NUMBER INDICATES KVA.
57	BUSWAY.
58	DUCT, TROLLEY.
59	RELAY CONTACT, NORMALLY CLOSED (ONE-LINE DIAGRAM).
60	RELAY CONTACT, NORMALLY OPEN (ONE-LINE DIAGRAM).
61	PUSHBUTTON, NORMALLY CLOSED (ONE-LINE DIAGRAM).
62	PUSHBUTTON, NORMALLY OPEN (ONE-LINE DIAGRAM).
63	PRESSURE SWITCH, CLOSE ON INCREASE (ONE-LINE DIAGRAM).
64	PRESSURE SWITCH, OPEN ON INCREASE (ONE-LINE DIAGRAM).
65	SWITCH, NORMALLY CLOSED FLOAT (ONE-LINE DIAGRAM).
66	SWITCH, NORMALLY OPEN FLOAT (ONE-LINE DIAGRAM).
67	SWITCH, NORMALLY CLOSED LIMIT (ONE-LINE DIAGRAM).
68	SWITCH, NORMALLY OPEN LIMIT (ONE-LINE DIAGRAM).
69	SWITCH, NORMALLY CLOSED TEMPERATURE ACTIVATED (ONE-LINE DIAGRAM).
70	SWITCH, NORMALLY OPEN TEMPERATURE ACTIVATED (ONE-LINE DIAGRAM).
71	SWITCH, NORMALLY CLOSED TIME DELAY (ONE-LINE DIAGRAM).
72	SWITCH, NORMALLY OPEN TIME DELAY (ONE-LINE DIAGRAM).
73	SWITCH, NORMALLY CLOSED FOOT OPERATED (ONE-LINE DIAGRAM).
74	SWITCH, MULTIPOSITION (ONE-LINE DIAGRAM).
75	SWITCH, SINGLE BREAK (ONE-LINE DIAGRAM).
76	SPECIALIZED TRANSFER SWITCH (ONE-LINE DIAGRAM).
77	ACCESSIBLE DOOR ENTRY PUSH PLATE OPERATOR.
78	CIRCUIT BREAKER, DRAW OUT (ONE-LINE DIAGRAM).

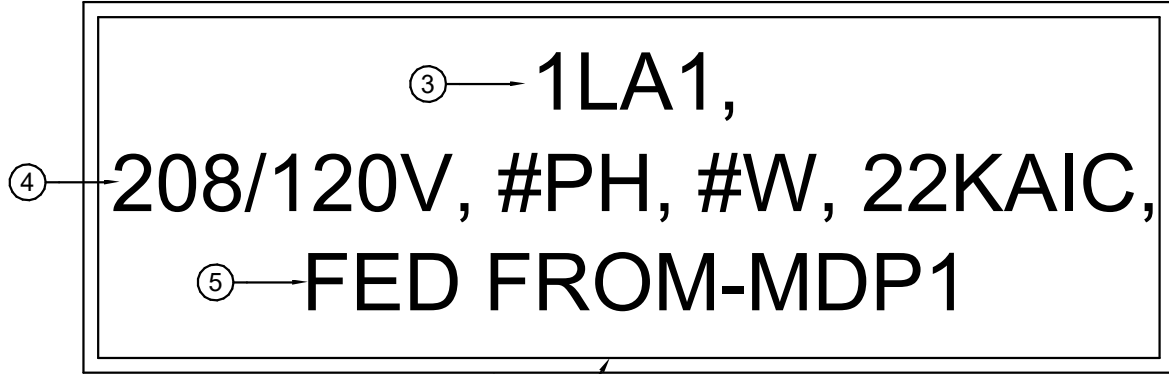
SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
FIRE ALARM	
01	FIRE SYSTEM ANNUNCIATOR.
02	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
03	FIRE ALARM NOTIFICATION POWER SUPPLY.
04	FIRE ALARM TRANSPONDER OR TRANSMITTER.
05	SMOKE CONTROL PANEL.
06	AUTOMATIC DOOR CLOSERS: DOOR CLOSERS SHALL BE FURNISHED WITH DOOR HARDWARE AND CONNECTED TO BY FIRE ALARM INSTALLERS.
07	CONTROL MODULE.
08	MONITOR MODULE.
09	FIRE ALARM MANUAL PULL STATION.
10	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
11	MAGNETIC DOOR HOLDER.
12	FIRE SERVICE OR EMERGENCY TELEPHONE STATION, ACCESSIBLE.
13	FIRE SERVICE OR EMERGENCY TELEPHONE STATION, HANDSET.
14	FIRE SERVICE OR EMERGENCY TELEPHONE STATION, JACK.
15	DETECTOR, SMOKE.
16	DETECTOR, SMOKE WITH AUXILIARY CONTACT.
17	DETECTOR, SMOKE, BEAM RECEIVER.
18	DETECTOR, SMOKE, BEAM TRANSMITTER.
19	DETECTOR, SMOKE, ELEVATOR RECALL DESIGNATION.
20	DETECTOR, SMOKE WITH GUARD.
21	DETECTOR, SMOKE, RESIDENTIAL.
22	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
23	DETECTOR, HEAT.
24	INDICATOR LAMP.
25	STROBE.
26	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
27	ALARM, HORN/SPEAKER, WEATHERPROOF.
28	ALARM, HORN/STROBE, ONE ASSEMBLY.
29	ALARM, HORN/STROBE, ONE ASSEMBLY. SUBSCRIPT INDICATES CANDELA RATING.
30	ALARM, CHIME/STROBE, ONE ASSEMBLY.
31	ALARM, HORN/STROBE WITH GUARD, ONE ASSEMBLY.
32	ALARM, MINI HORN/STROBE, ONE ASSEMBLY.
33	SPEAKER, EVACUATION.
34	SPEAKER, EVACUATION, COMBINATION STROBE.
35	DETECTOR, FLOW SWITCH: FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
36	DETECTOR, TAMPER SWITCH WITH VALVE: TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
37	SMOKE DAMPER.
38	FIRE AND SMOKE DAMPER.
39	BELL (GONG).
40	DETECTOR, CARBON MONOXIDE.
41	DETECTOR, SMOKE/STROBE, RESIDENTIAL.
42	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
43	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
44	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
TECHNOLOGY SYSTEMS	
01	TECHNOLOGY SYSTEM CABLE. SEE SPECIFIC JOB EQUIPMENT LIST FOR APPLICABLE DESIGNATIONS. EXAMPLES: C = CONTROL CABLE G = GROUND CABLE, 10 AWG, 1 CONDUCTOR, GREEN I = INSULATED M = MICROPHONE CABLE S = SPEAKER CABLE, 70 VOLT SYSTEM Z = SPEAKER CABLE, 8 OHM SYSTEM
02	SPEAKER, CEILING MOUNTED.
03	SPEAKER, WALL MOUNTED.
04	SPEAKER, 4".
05	SPEAKER, 6".
06	SPEAKER, 8".
07	SPEAKER, 12".
08	SPEAKER, BLIND MOUNT.
09	SPEAKER, EXISTING.
10	HORN.
11	HORN, WEATHER RESISTANT.
12	SPEAKER, MASKING.
13	SPEAKER, RECESSED.
14	SPEAKER, SURFACE.
15	SPEAKER, USER DEFINED.
16	SPEAKER, HIGH FREQUENCY.
17	SPEAKER, LOW FREQUENCY.
18	SPEAKER ENCLOSURE (CLUSTER).
19	CALL SWITCH, INTERCOM.
20	MICROPHONE, TABLE OR LECTERN MOUNTED.
21	EQUIPMENT CABINET.
22	MEDIA CONNECTION PLATE.
23	AUDIO/VISUAL OUTLET.
24	SCREEN, PROJECTION, CEILING MOUNTED.
25	PROJECTOR, CEILING MOUNTED.
26	VIDEO CONFERENCING CAMERA.
27	CONTROL PANEL.
28	MICROPHONE INPUT.
29	MICROPHONE INPUT, FLOOR MOUNTED.
30	REMOTE CONTROL INPUT.
31	POWER SWITCH.
32	SPEAKER SWITCH OR INPUT.
33	SOURCE SWITCH/VOLUME CONTROL.
34	TAPE RECORD OUTPUT.
35	VOLUME CONTROL.
36	HUB CABINET.
37	VIDEO MONITOR.
38	AUDIO DISTRIBUTION AMPLIFIER.
39	AUDIO PATCH PANEL.
40	CONNECTION PANEL.
41	DIGITAL VERSATILE DISC (DVD) PLAYER.
42	ASSISTED LISTENING EMITTER PANEL.
43	SIGNAL RELAY DPDT WITH SOCKET.
44	LINE DRIVER (VARIZONE DIGITAL PAGING SYSTEM).
45	POWER AMP MODULE (VARIZONE DIGITAL PAGING SYSTEM).
46	RGBHV DISTRIBUTION AMPLIFIER.
47	REMOTE CONTROL PANEL.
48	RGBHV MATRIX SWITCHER.
49	TRANSIENT VOLTAGE SURGE SUPPRESSOR, AC LINE CONDITIONER.
50	VIDEO CASSETTE RECORDER.
51	COMPOSITE VIDEO DISTRIBUTION AMPLIFIER.
52	COMPOSITE VIDEO MATRIX SWITCHER.
53	VIDEO PATCH PANEL.
54	S-VIDEO MATRIX SWITCHER.
55	AMPLIFIER (ONE-LINE DIAGRAM).
56	POWER BRIDGE (VARIZONE DIGITAL PAGING SYSTEM).
57	TERMINATOR (VARIZONE DIGITAL PAGING SYSTEM).
58	DIODE (ONE-LINE DIAGRAM).
59	TRANSFORMER, ISOLATION/MATCHING (ONE-LINE DIAGRAM).
60	TRANSFORMER, # WATT (ONE-LINE DIAGRAM).
61	MICROPHONE, HANDHELD (ONE-LINE DIAGRAM).
62	AUXILIARY INPUT.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
CLOCK	
01	CLOCK.
02	CLOCK, SURFACE WITH WIRE GUARD.
NURSE CALL	
01	JUNCTION BOX.
02	CORRIDOR LIGHT.
03	BATHROOM PULL CORD STATION.
04	DUTY STATION.
05	EMERGENCY ASSISTANCE CALL STATION.
06	EMERGENCY ASSISTANCE CODE BLUE CALL STATION.
07	PATIENT STATION.
08	STAFF STATION.
09	TOUCH SCREEN NURSE CALL MASTER STATION.
10	ZONE LIGHT CONTROLLER.
11	NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.
CCTV	
01	CCTV CABLE, POWER.
02	CCTV CABLE, VIDEO SIGNAL.
03	CCTV HEADEND EQUIPMENT.
04	CCTV MONITOR.
05	CCTV CAMERA/ENCLOSURE WITH LENS. TYPICAL. SEE SCHEDULE.
06	CCTV CAMERA WITH PAN, TILT AND ZOOM.
07	PANNING CAMERA TRANSVERSE ANGLE.
SECURITY	
01	SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.
02	ACCESS CONTROL HEADEND EQUIPMENT.
03	SECURITY CONTROL PANEL.
04	INTRUSION DETECTION HEADEND EQUIPMENT.
05	CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.
06	CARD READER.
07	KEYPAD/CARD READER COMBINATION.
08	DOOR SWITCH, BALANCED MAGNETIC CONTROL.
09	EXIT REQUEST.
10	REMOTE DOOR RELEASE BUTTON.
11	BELL.
12	BUZZER.
13	BUZZER, COMBINATION BELL.
14	SENSOR, BURIED VEHICULAR.
15	SENSOR, GLASS BREAK.
16	SENSOR, VOLUMETRIC.
17	CONTROLLED ACCESS POINT.
18	INTERCOM STATION.
19	DUAL TECHNOLOGY PASSIVE INFRARED SENSOR AND ULTRASONIC MOTION DETECTOR.
20	PASSIVE INFRARED SENSOR.
21	PANIC DURESS SWITCH.
22	ULTRASONIC MOTION DETECTOR.
23	ANNUNCIATOR PANEL.
24	MASTER STATION, INTERCOM.
TV DISTRIBUTION	
01	TV DISTRIBUTION CABLE, INDIVIDUAL DROPS.
02	TV DISTRIBUTION CABLE, TRUNK.
03	COMBINER.
04	DIRECTIONAL COUPLER.
05	DISTRIBUTION AMPLIFIER (ONE-LINE DIAGRAM).
06	SPLITTER (ONE-LINE DIAGRAM).
07	TV OUTLET.
08	SATELLITE ANTENNA.
09	TV ANTENNA (ONE-LINE DIAGRAM).
10	TERMINATOR, 75 OHM (TV DISTRIBUTION).



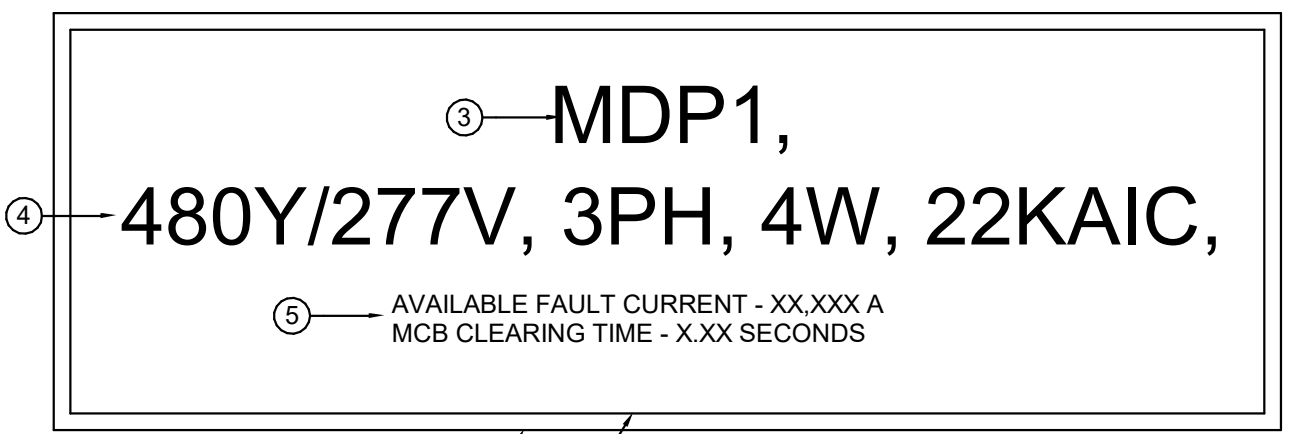
- ① LABEL TO BE PROVIDED AT EACH SWITCHBOARD, PANELBOARD, DISCONNECT/STARTER. LABEL IS TO BE 3" X REQUIRED LENGTH X 1/16" LAMINATED 2-PLY PLASTIC LAMACOID. LETTERS SHALL BE FORMED BY ENGRAVING OUTER WHITE PLY, EXPOSING BLACK PLY BENEATH.
- ② LABEL IS TO BE MOUNTED USING DOUBLE SIDED ADHESIVE TAPE COVERING THE BACK OF THE LABEL.
- ③ FIRST LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. REPLACE THE LETTERNUMBER WITH THOSE FOUND ON THE ONE-LINE DIAGRAM.
- ④ SECOND LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. THE FOLLOWING SHALL BE PROVIDED: VOLTAGE, PHASE, NUMBER OF WIRES, AND AIC RATING OF DEVICE.
- ⑤ THIRD LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. PROVIDE "FED FROM" AND REPLACE MDP1 WITH THE DEVICES NAME THAT FEEDS THE PANELBOARD.



NOTE: EMERGENCY PANELS SHALL USE LAMACOID WITH RED OUTERPLY, EXPOSING WHITE LETTERING BENEATH. CONTRACTOR TO USE SAME LABEL SCHEME EXCEPT FIRST 'X' IS REPLACED WITH 'E' FOR EMERGENCY. SECOND 'X' TO BE 'L' FOR LOW OR 'H' FOR HIGH VOLTAGE (480/277V). LAST 'W' TO BE REPLACED WITH LETTER INDICATING LOCATION OF PANEL.

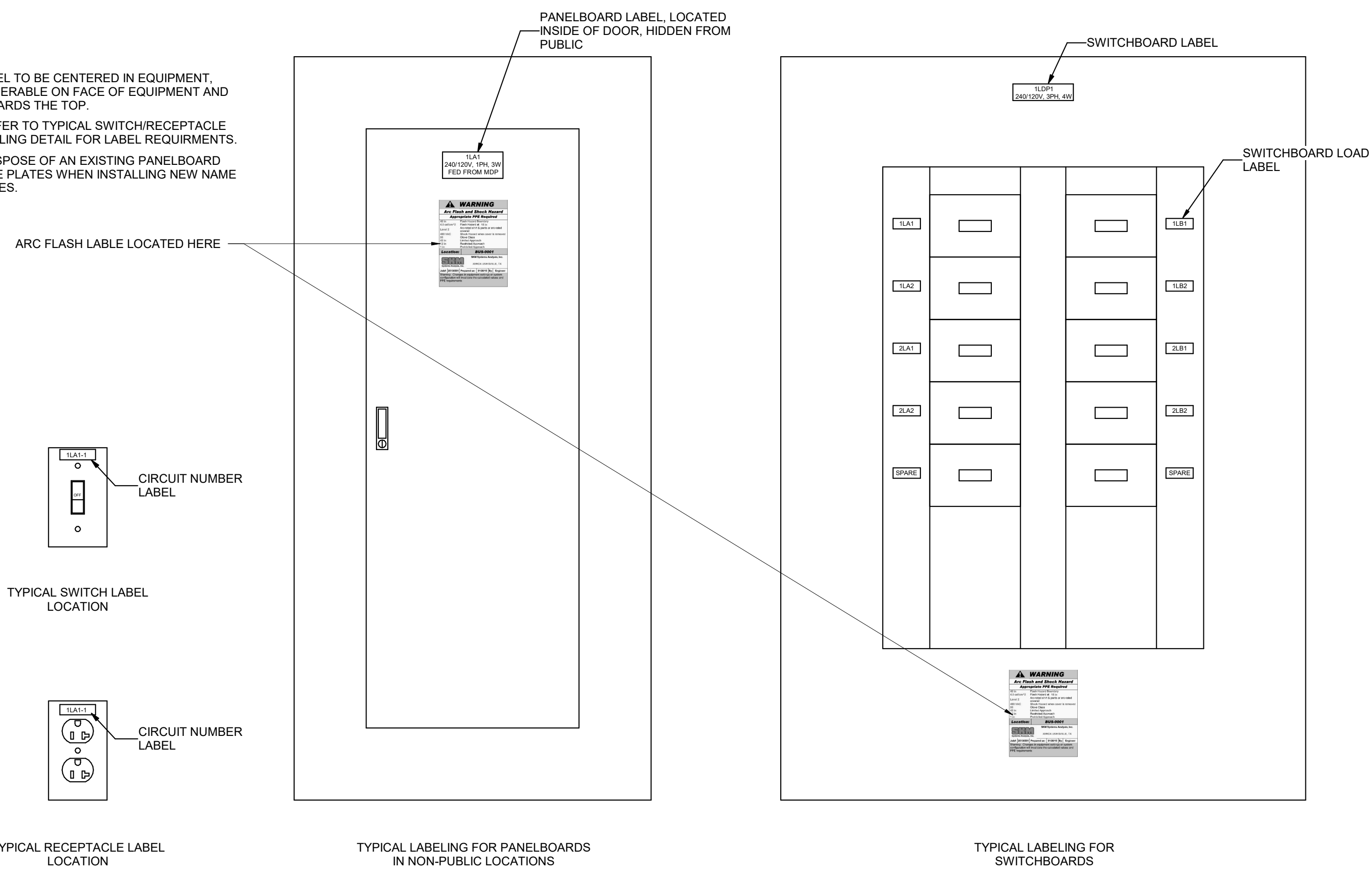
3 TYPICAL PANELBOARD/SWITCHBOARD LABEL
SCALE: NTS

- ① LABEL TO BE PROVIDED THAT IS TO BE 4" X REQUIRED LENGTH X 1/16" LAMINATED 2-PLY PLASTIC LAMACOID. LETTERS SHALL BE FORMED BY ENGRAVING OUTER WHITE PLY, EXPOSING BLACK PLY BENEATH.
- ② LABEL IS TO BE MOUNTED USING DOUBLE SIDED ADHESIVE TAPE COVERING THE BACK OF THE LABEL.
- ③ FIRST LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, WITH THE EQUIPMENT ID MATCHING PLANS.
- ④ SECOND LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. THE FOLLOWING SHALL BE PROVIDED: VOLTAGE, PHASE, NUMBER OF WIRES, AND AIC RATING OF GEAR.
- ⑤ THIRD & FOURTH LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. LABEL WITH ACTUAL AVAILABLE FAULT CURRENT AND ASSOCIATED CLEARING TIME.

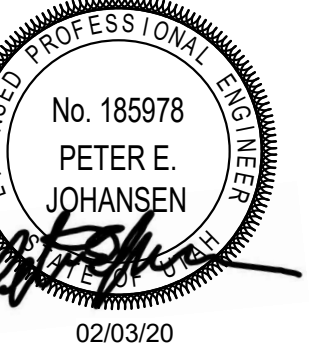


2 TYPICAL MAIN SERVICE EQUIPMENT/GEAR LABEL
SCALE: NTS

*LABEL TO BE CENTERED IN EQUIPMENT, PREFERABLE ON FACE OF EQUIPMENT AND TOWARDS THE TOP.
**REFER TO TYPICAL SWITCH/RECEPTACLE LABELING DETAIL FOR LABEL REQUIREMENTS.
***DISPOSE OF AN EXISTING PANELBOARD NAME PLATES WHEN INSTALLING NEW NAME PLATES.



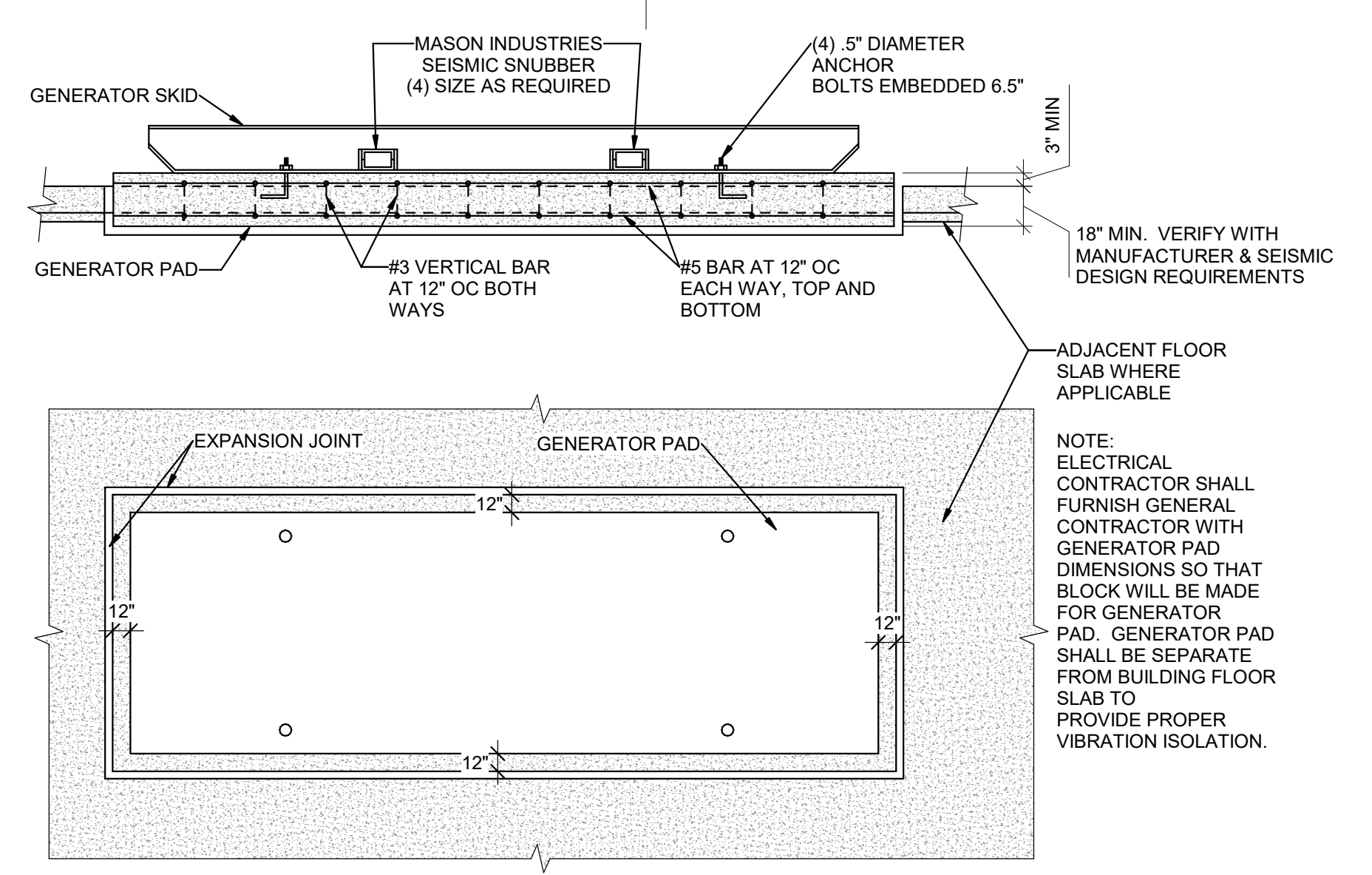
1 TYPICAL SWITCH, RECEPTACLE AND PANELBOARD LABELING LOCATION DETAIL
SCALE: NTS



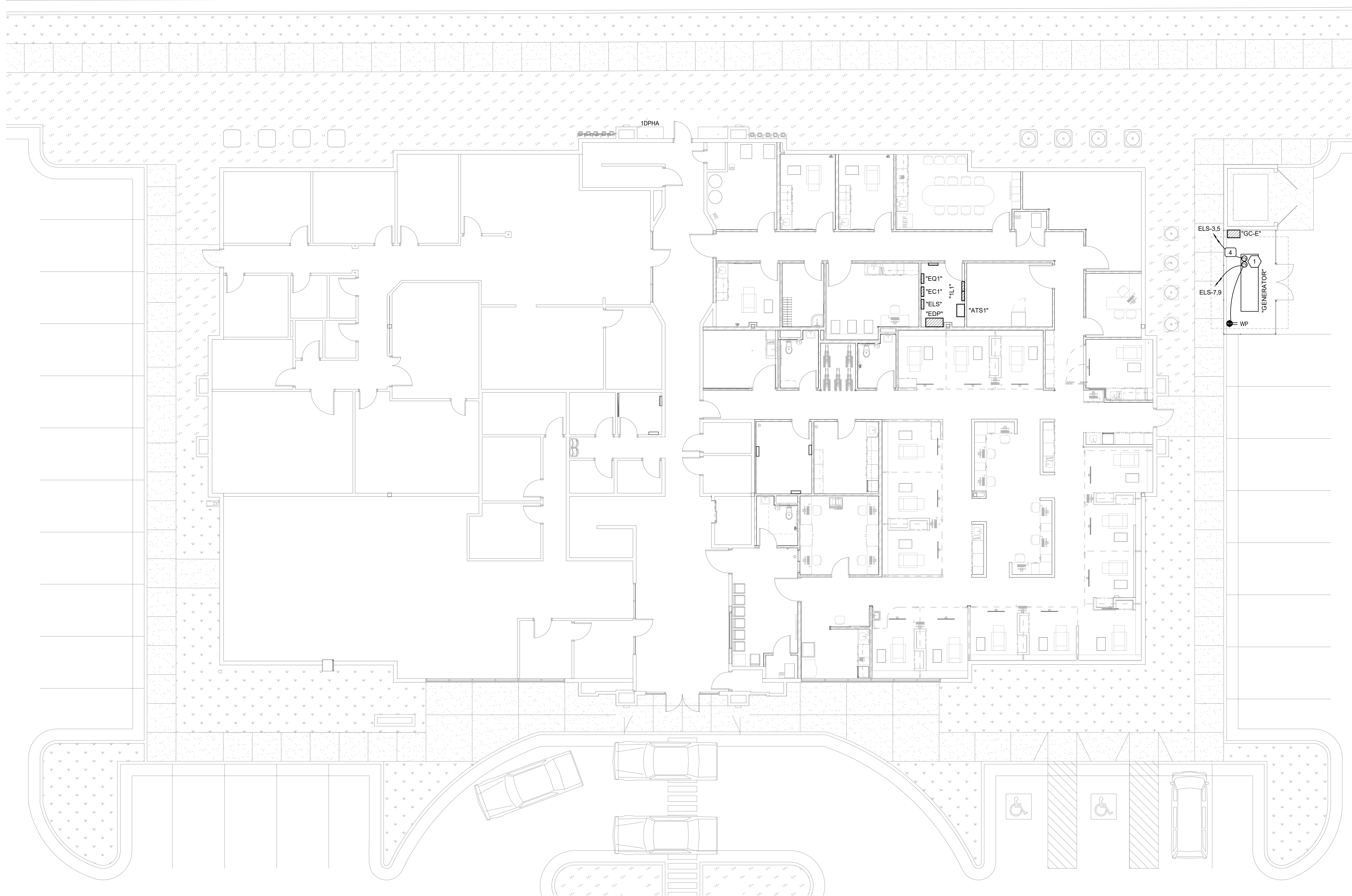
GENERAL SHEET NOTES

SHEET KEYNOTES

1 PROVIDE 30/2 AMP 208/1 VOLT CIRCUIT FOR BLOCK HEATER, AND TWO 120 VOLT 20 AMP CIRCUIT FOR BATTERY CHARGER AND CONTROLS. CIRCUIT RECEPTACLE WITH CONTROL CIRCUIT.



2 GENERATOR PAD DETAIL
SCALE: NTS



1 ELECTRICAL SITE PLAN
SCALE: 1/8" = 1'-0"

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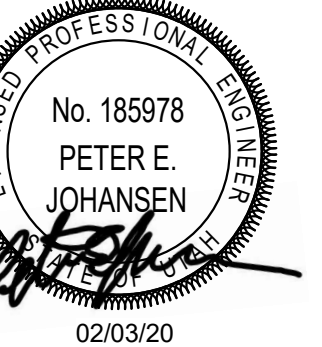
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ELECTRICAL
SITE PLAN

ES101

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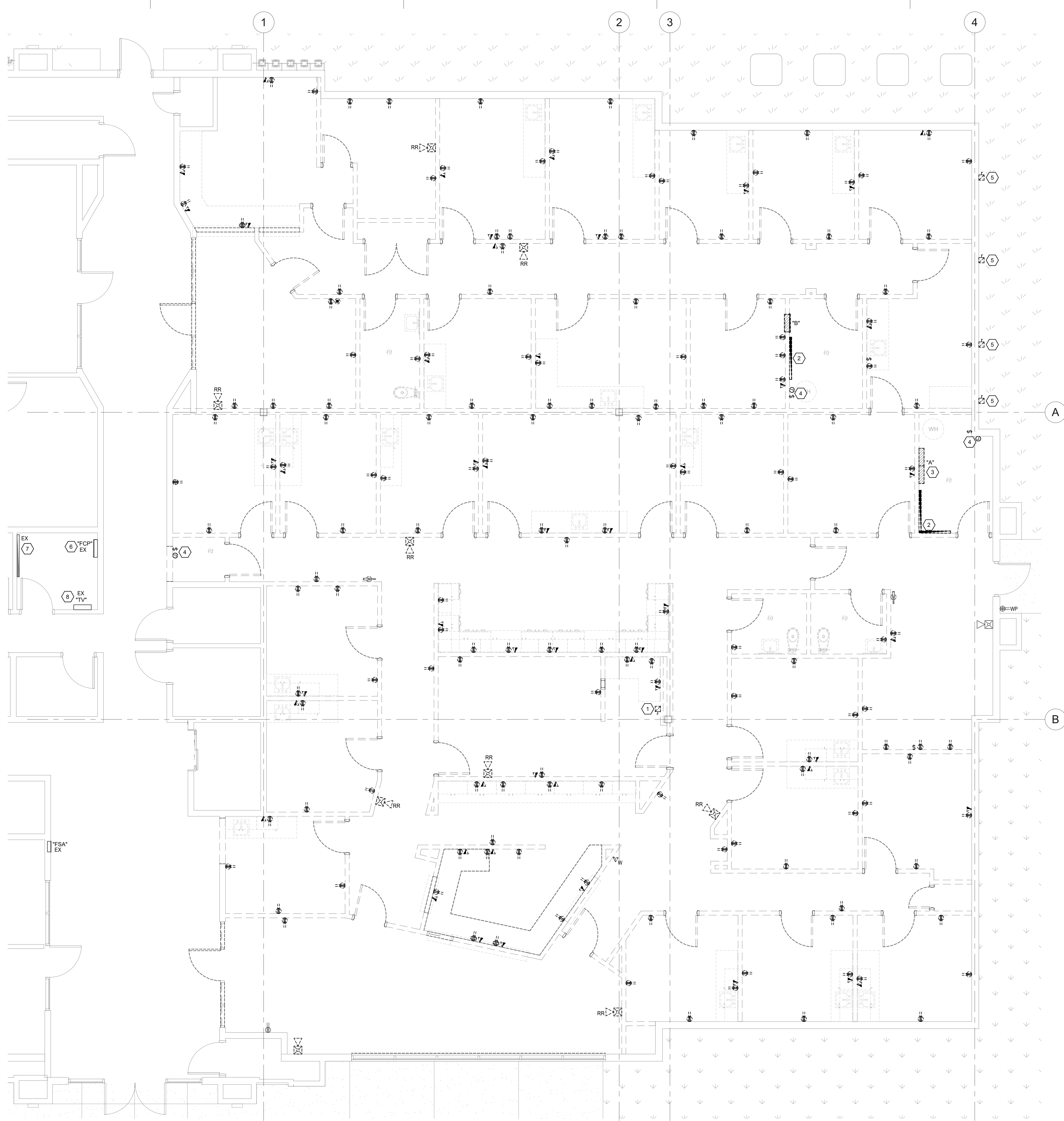


GENERAL SHEET NOTES

- 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.
- 2 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.
- 5 PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
- 6 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.
- 7 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

- 1 REMOVE 208/1 VOLT 200 AMP FUSED DISCONNECT WHICH PREVIOUSLY FED X-RAY EQUIPMENT. REMOVE ALL CORRESPONDING X-RAY CONDUIT AND CABLING.
- 2 REMOVE STRUCTURAL CABLING AND VOICE/DATA EQUIPMENT.
- 3 REMOVE 200 AMP PANEL A. FEEDER WILL BE SPLICED AND EXTENDED TO NEW BRANCH PANEL LOCATION.
- 4 REMOVE POWER TO FURNACE.
- 5 REMOVE POWER TO CONDENSING UNIT DISCONNECTS WHICH CORRESPOND TO THE FURNACES BEING DEMOLISHED IN THE CONSTRUCTION AREA.
- 6 EXISTING "SILENT KNIFE" FIRE ALARM CONTROL PANEL TO REMAIN.
- 7 EXISTING FIBER AND COPPER MDF EQUIPMENT TO REMAIN.
- 8 EXISTING TV HEAD-END.



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

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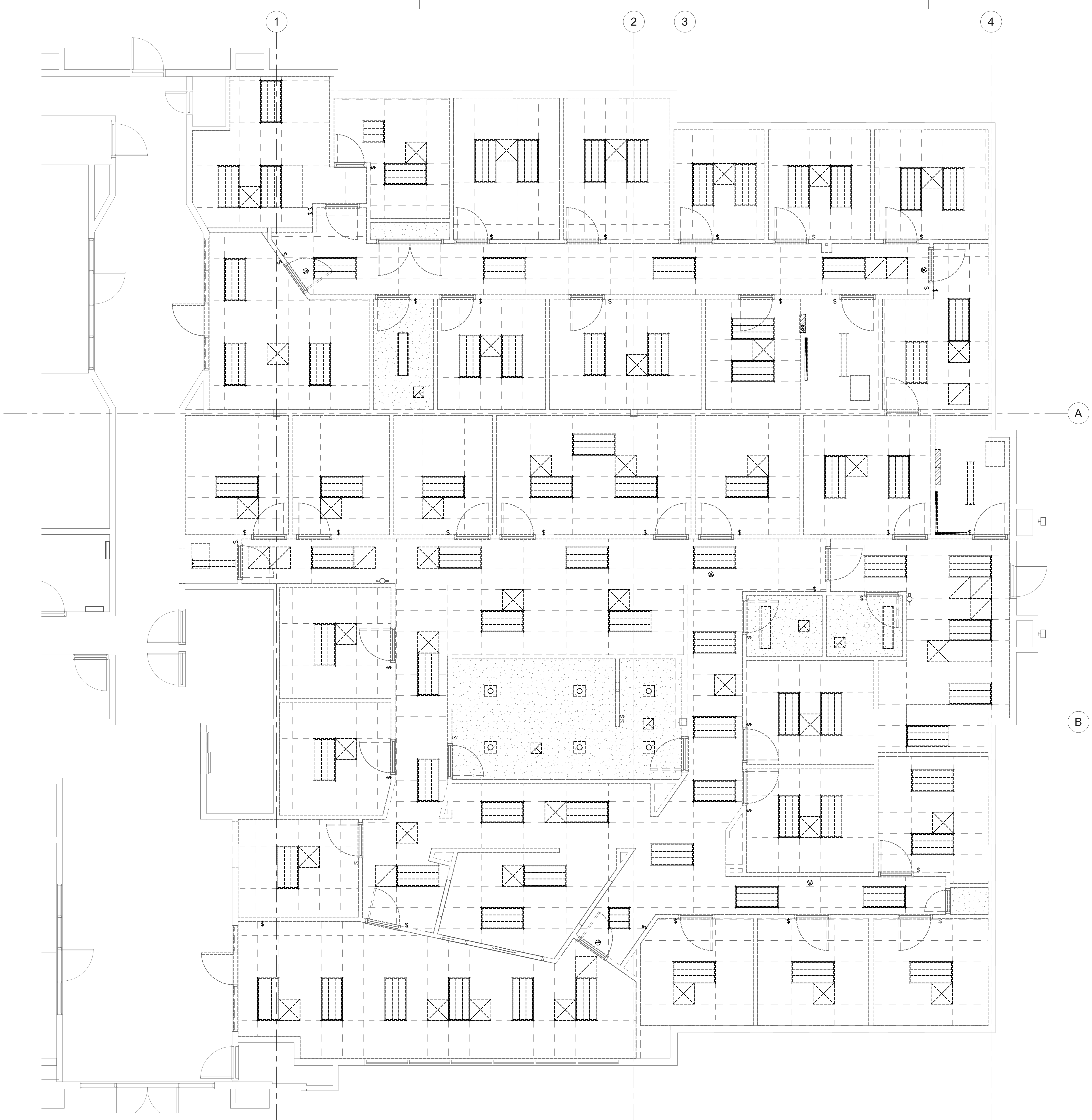
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DEMOLITION
POWER PLAN
LEVEL 1

EDP101

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

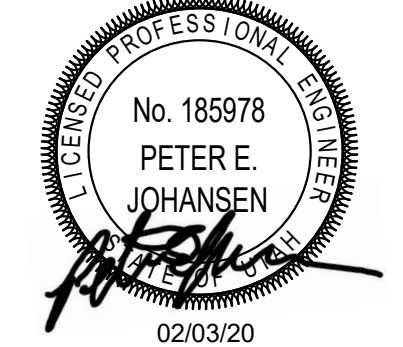
GENERAL SHEET NOTES

- 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.
- 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.
- 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.
- REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLEING 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.
- DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.

SHEET KEYNOTES



NJRA Architects, Inc.
5272 S. College Drive, Suite 104
Murray, Utah 84123 801.364.9259
www.njraarchitects.com

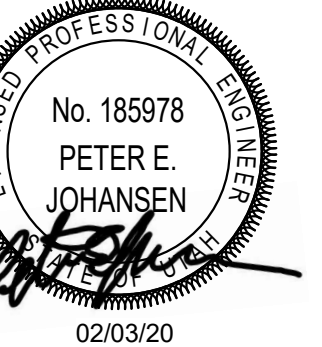


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DEMOLITION
LIGHTING
PLAN LEVEL 1

EDL101

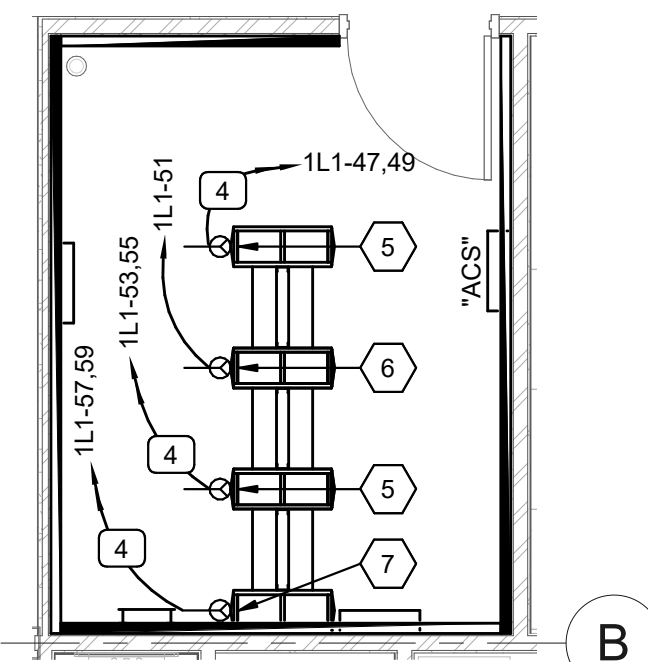
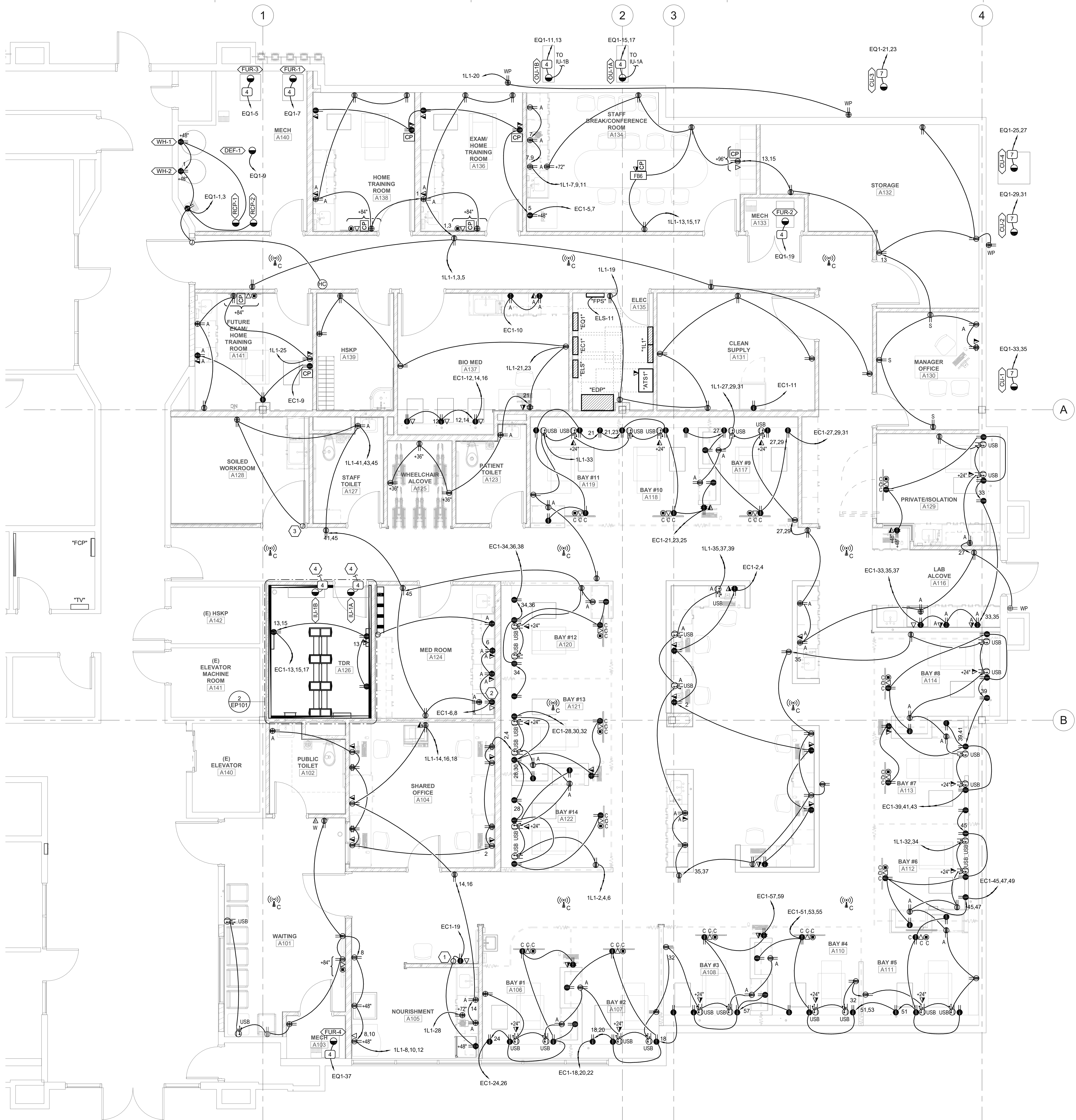


GENERAL SHEET NOTES

1 GROUNDING FOR ALL CIRCUITS TO MEET NEC 517-13 (a) & (b) REQUIREMENTS.

SHEET KEYNOTES

- 1 RUN .75" CONDUIT FROM IN-FLOOR SCALE TO MONITOR RECESSED IN WALL.
- 2 POWER AND DATA FOR U/C FRIDGE. FRIDGE WILL HAVE TEMP TRACKING.
- 3 PROVIDE 120 VOLT POWER TO SAFE-ZONE CLOSER.
- 4 CIRCUIT WITH OUT DOOR SPLIT SYSTEM UNIT.
- 5 L6/30 RECEPTACLE MOUNTED AT 76".
- 6 L5/20R RECEPTACLE MOUNTED AT 76".
- 7 L14/30 RECEPTACLE MOUNTED AT 71" AFF TO BOTTOM OF BOX.



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

2 TDR A126 POWER PLAN
SCALE: 1/4" = 1'-0"

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Tooele Valley Dialysis Clinic Expansion

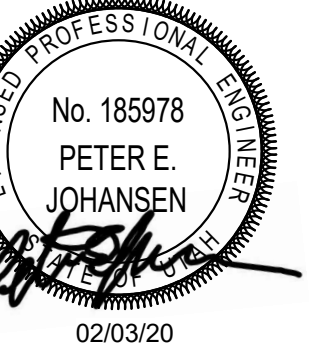
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POWER PLAN LEVEL 1

EP101

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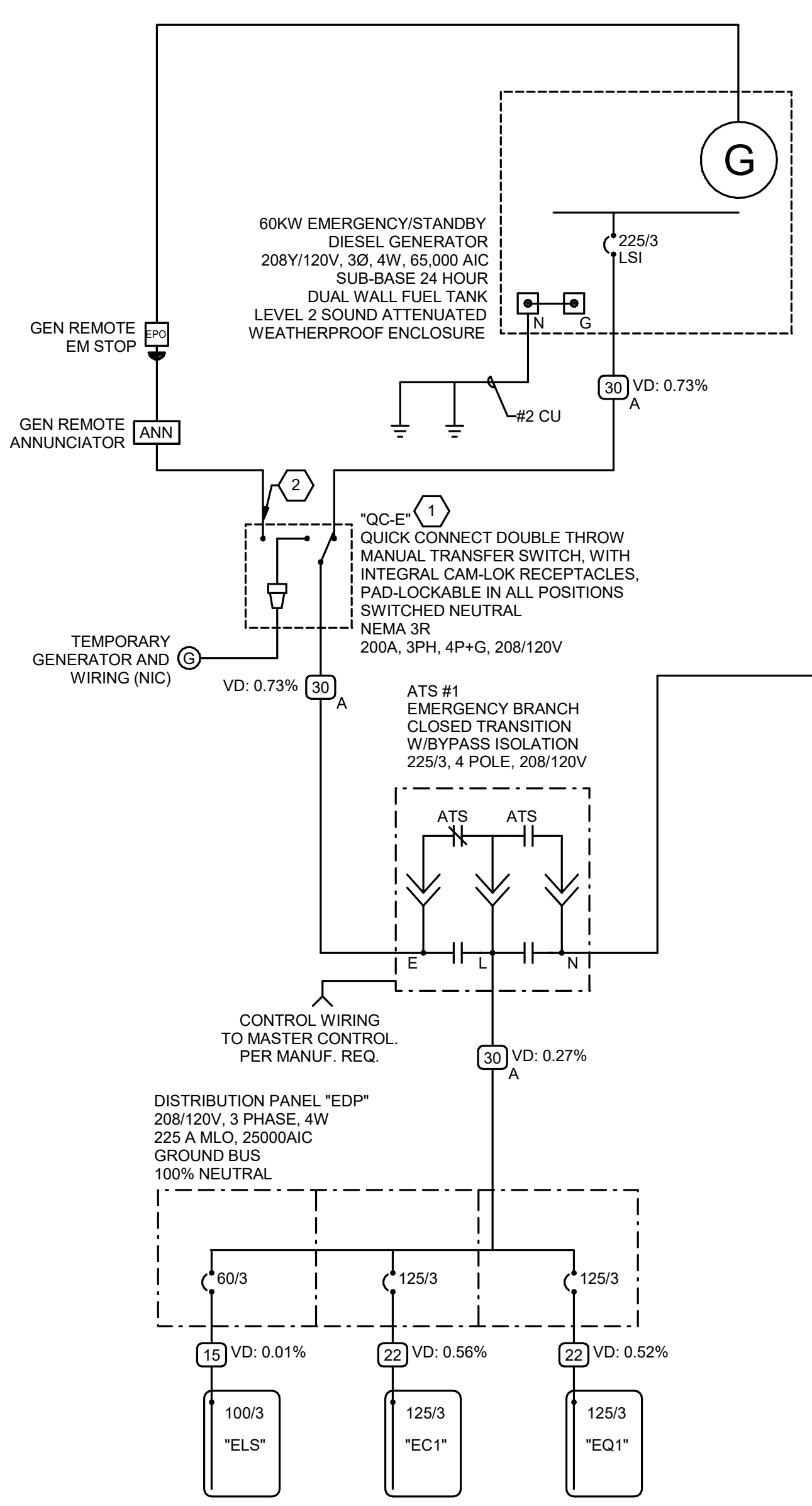
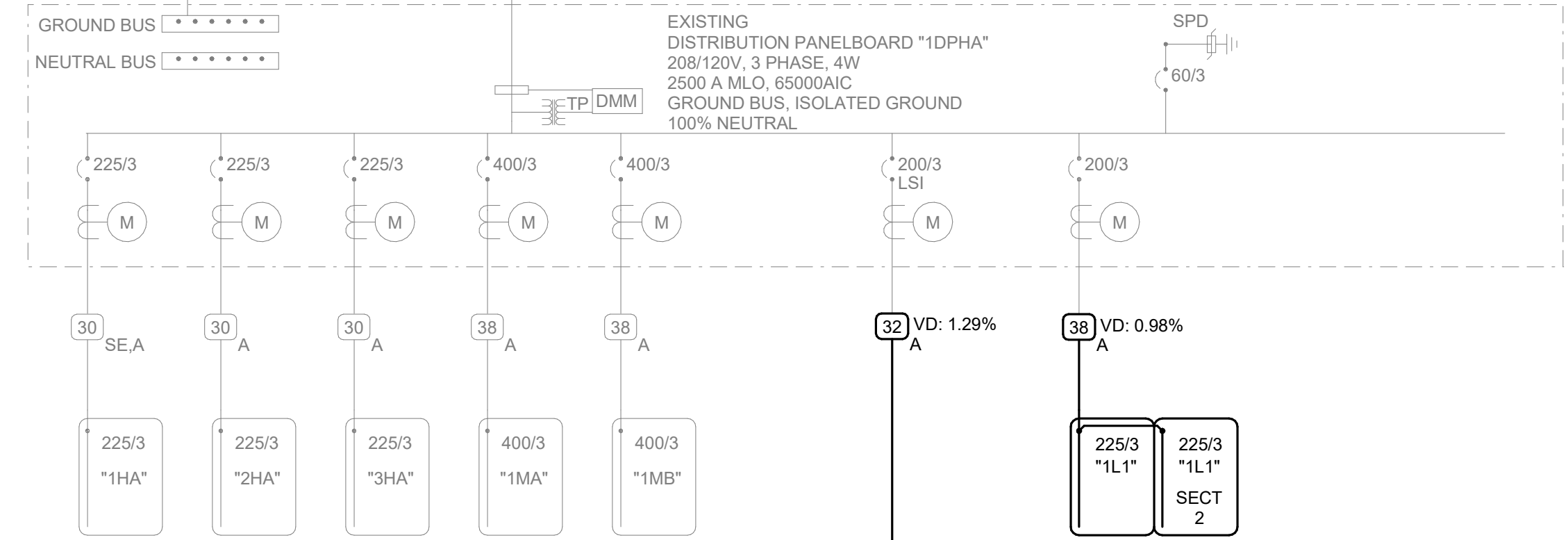
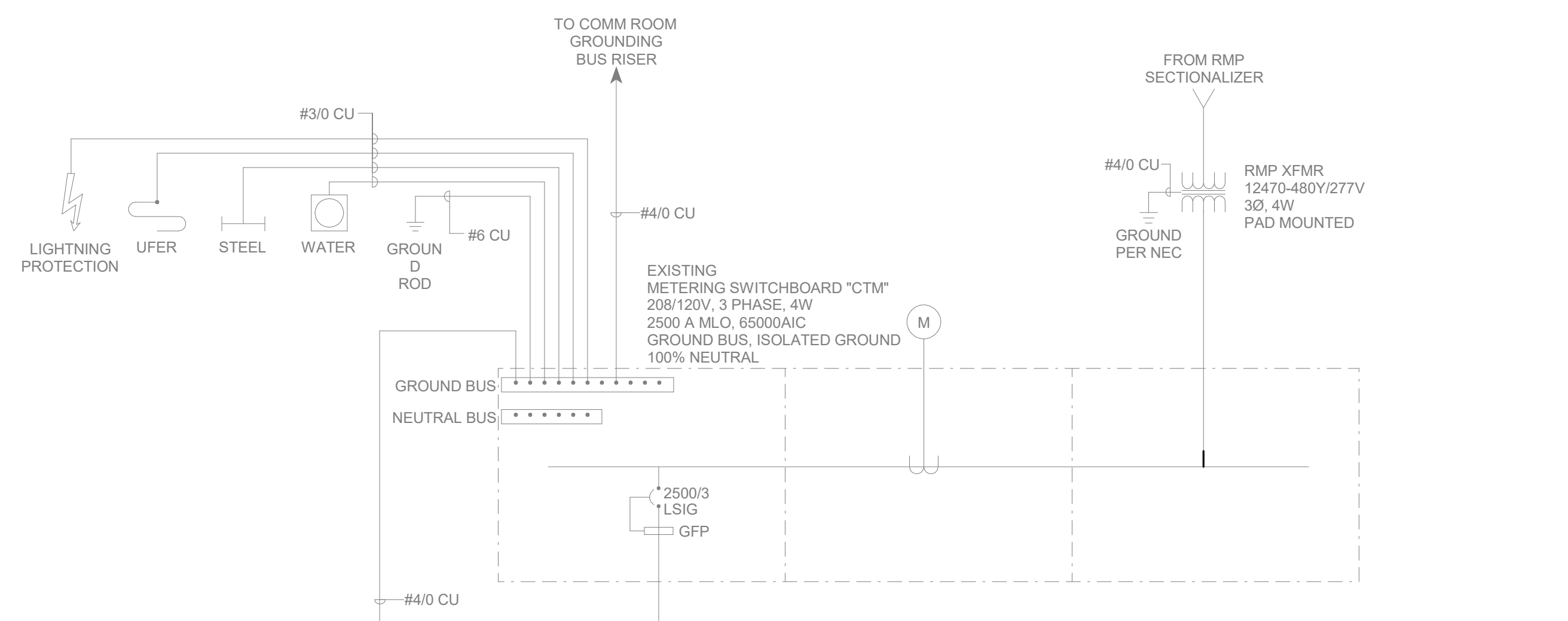
FAULT CURRENT TABLE

BUS	FAULT CURRENT
1L1	13,561 SCA
EC1	9,073 SCA
EDP	13,814 SCA
ELS	10,274 SCA
EQ1	8,113 SCA

PROVIDE FULLY RATED CIRCUIT BREAKERS IN PANELBOARDS FOR THE FAULT CURRENT SHOWN. SERIES RATINGS WITH NEXT LEVEL UPSTREAM OVERCURRENT PROTECTIVE DEVICES ARE PERMITTED SUBJECT TO FACTORY UL DOCUMENTATION OF SERIES RATING SUBMITTED TO ENGINEER. IF DEVICE OR EQUIPMENT FAULT CURRENT RATING IS NOT SHOWN, ASSUME 100,000 AIC.

- ### SHEET KEYNOTES
- CONTRACTOR SHALL SUBMIT VARIATIONS FROM ASSUMPTIONS PRIOR TO ORDERING EQUIPMENT.
 - THE SERVICE EQUIPMENT SHALL BE PROVIDED WITH A PERMANENT LABEL INCLUDING: NOMINAL SYSTEM VOLTAGE, AVAILABLE FAULT CURRENT, AND CLEARING TIME ON MAIN OVERCURRENT PROTECTIVE DEVICE BASED ON THE AVAILABLE FAULT CURRENT.

- ### GENERAL SHEET NOTES
- PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
 - REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
 - ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO ELECTRICAL SPECIFICATIONS FOR REQUIREMENTS.
 - PROVIDE PERFORMANCE TESTING FOR GROUND-FAULT PROTECTION SYSTEMS ON SITE WITH A WRITTEN RECORD OF THIS TEST SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PER 2011 NEC 230.95(C).



ALUMINUM CONDUCTOR AND CONDUIT SCHEDULE

SYM	AMP	CONDUIT SIZE	CONDUCTOR (NOTE 1) QTY	CONDUCTOR (NOTE 1) SIZE	G	IG	SE	NOTES
1A								
2A								
3A								
4A								
5A								
6A								
7A								
8A								
9A								
10A								
11A								
12A								
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60A								

COPPER CONDUCTOR AND CONDUIT SCHEDULE

SYM	AMP	HH AMPS	CONDUIT SIZE	CONDUCTOR (NOTE 1) QTY	CONDUCTOR (NOTE 1) SIZE	G	IG/HH	SE	NOTES
1	20	-	75	2	12	12	12	8	2
2	20	-	75	3	12	12	12	8	2.3
3	20	24	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	32	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	44	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	60	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	76	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	92	1.25	4	3	8	3	2	2
19	95	-	1.25	3	2	8	2	2	2
20	95	104	1.50	4	2	8	2	2	2
21	130	-	1.50	3	1	6	2	2	2
22	130	116	1.50	4	1	6	2	2	2
23	150	-	2	3	1/0	6	2	1/0	2
24	150	136	2	4	1/0	6	2	1/0	2
25	175	-	2	3	2/0	6	2	2/0	2
26	175	156	2	4	2/0	6	2	2/0	2
27	200	-	2	3	3/0	6	2	2/0	2
28	200	180	2.50	4	3/0	6	2	2/0	2
29	230	-	2.50	3	4/0	4	2	2/0	2
30	230	208	2.50	4	4/0	4	2	2/0	2
31	255	-	2.50	3	250	4	1	2/0	2
32	255	232	2.50	4	250	4	1	2/0	2
33	310	-	3	3	350	3	1/0	3/0	2
34	310	280	3	4	350	3	1/0	3/0	2
35	380	-	3.50	3	500	3	3/0	3/0	2
36	380	344	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	360	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	464	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	560	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	688	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	768	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	912	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	1032	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	1100	4 EA 3	4	350	3/0	4/0	3/0	4
53	1675	1520	5 EA 4	4	400	2/0	4/0	3/0	4
54	2010	1824	6 EA 4	4	400	250	250	250	4
55	2660	2408	7 EA 4	4	500	350	350	350	4
56	3040	2752	8 EA 4	4	500	500	500	500	4
57	4180	3784	11 EA 4	4	500	500	500	500	4
58	-	-	5 EA 4	-	-	-	-	-	6
59	-	-	5	-	-	-	-	-	6
60	-	-	10 EA 4	-	-	-	-	-	6

- #### CONDUIT AND CONDUCTOR SCHEDULE NOTES
- CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
 - PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
 - PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
 - GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
 - SYMBOL SUBSCRIPTS:
 - "2N": INCLUDE TWO NEUTRAL CONDUCTORS SIZED AS SCHEDULED FOR PHASE AND NEUTRAL CONDUCTORS WHERE THE CONDUCTOR IS #10 OR LARGER. INCLUDE A SINGLE 200% RATED CONDUCTOR THAT IS TWICE THE AMPACITY OF THE SCHEDULED PHASE AND NEUTRAL CONDUCTOR WHERE THE CONDUCTOR IS BELOW #10 IN SIZE.
 - "FG": FULL SIZE GROUND. SIZE EQUIPMENT GROUNDING CONDUCTOR TO BE 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 THE GROUND OF EQUIPMENT GROUND CONDUCTOR.
 - "SE": SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEM.
 - RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

ONE LINE DIAGRAM

SCALE: NTS

Intermountain Healthcare

Tooele Valley Dialysis Clinic Expansion

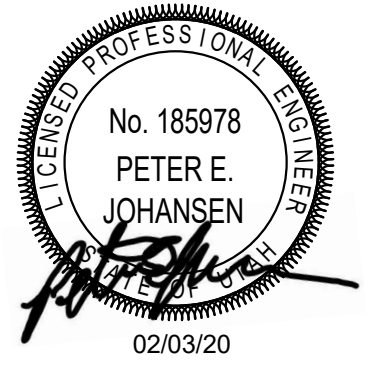
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2356 North 400 East, Suite # 102
Tooele, Utah 84074

NJRA Project # 19230.00
Construction Documents Feb 03, 2020

ONE-LINE
DIAGRAM

EP601

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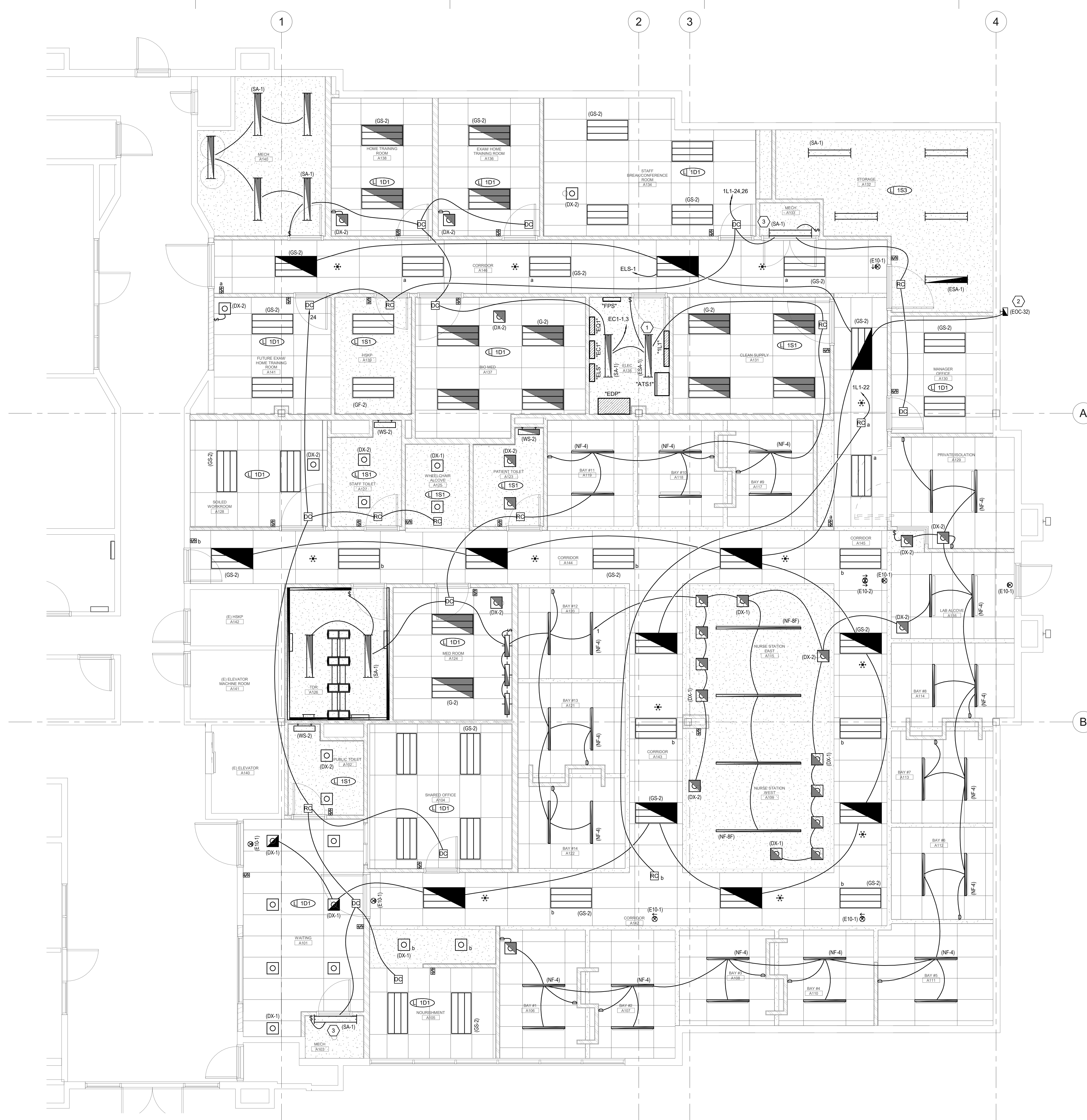
EQUIPMENT SCHEDULE

MARK	ITEM DESCRIPTION	LOAD DATA						WIRE AND CONDUIT SIZE	COND. AND CONDUIT SCHED.	OVERCURRENT PROTECTION			DISCONNECT			STARTER DATA											NOTES	MARK								
		HP	KW	MCA	FLA	VOLT	PH			Hz	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	SIZE	SPEED	CTRL VOLT	SELECTOR SWITCH	PUSH BUTTON	PILOT LAMP	NORMALLY OPEN CONTACTS			NORMALLY CLOSED CONTACTS	PHASE FAILURE RELAY	SCHEMATIC REFERENCE	REMOTE CTRL				
CU-1	CONDENSING UNIT, AIR COOLED			34		208	1	60	2 #8, #10 GR 1" CND	7	E	40A/2P CB	PANEL	E	60A/2P FRN 40	ADJ TO EQUIP	Q																	2	CU-1	
FUR-1	FURNACE	1		17.9		120	1	60	2 #10, #10 GR 0.75" CND	4	E	30A/1 CB	PANEL	E	30A/1P FRN 30	ADJ TO EQUIP	Q																		FUR-1	
CU-2	CONDENSING UNIT, AIR COOLED			34		208	1	60	2 #8, #10 GR 1" CND	7	E	40A/2P CB	PANEL	E	60A/2P FRN 40	ADJ TO EQUIP	Q																	2	CU-2	
FUR-2	FURNACE	1		17.9		120	1	60	2 #10, #10 GR 0.75" CND	4	E	30A/1 CB	PANEL	E	30A/1P FRN 30	ADJ TO EQUIP	Q																		FUR-2	
CU-3	CONDENSING UNIT, AIR COOLED			34		208	1	60	2 #8, #10 GR 1" CND	7	E	40A/2P CB	PANEL	E	60A/2P FRN 40	ADJ TO EQUIP	Q																	2	CU-3	
FUR-3	FURNACE	1		17.9		120	1	60	2 #10, #10 GR 0.75" CND	4	E	30A/1 CB	PANEL	E	30A/1P FRN 30	ADJ TO EQUIP	Q																		FUR-3	
CU-4	CONDENSING UNIT, AIR COOLED			34		208	1	60	2 #8, #10 GR 1" CND	7	E	40A/2P CB	PANEL	E	60A/2P FRN 40	ADJ TO EQUIP	Q																		CU-4	
FUR-4	FURNACE	1		17.9		120	1	60	2 #10, #10 GR 0.75" CND	4	E	30A/1 CB	PANEL	E	30A/1P FRN 30	ADJ TO EQUIP	Q																		FUR-4	
IU-1A	VRF INDOOR TDR A125					208	1	60	2 #10, #10 GR 0.75" CND	4	E	30A/2P CB	PANEL	E	30A/2P FRN 4	ADJ TO EQUIP	Q																	1	IU-1A	
IU-1B	VRF INDOOR TDR A125					208	1	60	2 #10, #10 GR 0.75" CND	4	E	30A/2P CB	PANEL	E	30A/2P FRN 4	ADJ TO EQUIP	Q																		1	IU-1B
OU-1A	VRF OUTDOOR UNIT			25		208	1	60	2 #10, #10 GR 0.75" CND	4	E	30A/2P CB	PANEL	E	30A/2P FRS 30	ADJ TO EQUIP	Q																		1	OU-1A
OU-1B	VRF OUTDOOR UNIT			25		208	1	60	2 #10, #10 GR 0.75" CND	4	E	30A/2P CB	PANEL	E	30A/2P FRS 30	ADJ TO EQUIP	Q																		1	OU-1B
DEF-1	FAN EXHAUST LEVEL 1		5			120	1	60	2 #12, #12 GR 0.75" CND	1	E	20A/1P CB	PANEL	Q	THERM SWITCH	ADJ TO EQUIP	Q																		1	DEF-1
RCP-1	RECIRC PUMP	0.2				120	1	60	2 #12, #12 GR 0.75" CND	1	E	20A/1P CB	PANEL	E	THERM SWITCH	ADJ TO EQUIP	Q																		RCP-1	
RCP-2	RECIRC PUMP	0.2				120	1	60	2 #12, #12 GR 0.75" CND	1	E	20A/1P CB	PANEL	E	THERM SWITCH	ADJ TO EQUIP	Q																		RCP-2	
WH-1	WATER HEATER					120	1	60	2 #12, #12 GR 0.75" CND	1	E	20A/1P CB	PANEL	E	PLUG	ADJ TO EQUIP	Q																		WH-1	
WH-2	WATER HEATER					120	1	60	2 #12, #12 GR 0.75" CND	1	E	20A/1P CB	PANEL	E	PLUG	ADJ TO EQUIP	Q																		WH-2	

(1) Circuit indoor split system unit with outdoor condensing unit
(2) Run new circuit to existing condensing unit. Re-use existing disconnect.

EQUIPMENT SCHEDULE KEY	
E	DIVISION 16
Q	FURNISHED WITH THE EQUIPMENT
*	COORDINATE WITH THE DIVISION 15 TEMPERATURE CONTROL INSTALLER
**	AUTOMATIC CONTROL WIRING BY DIVISION 15

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1 LIGHTING PLAN LEVEL 1

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

GENERAL SHEET NOTES

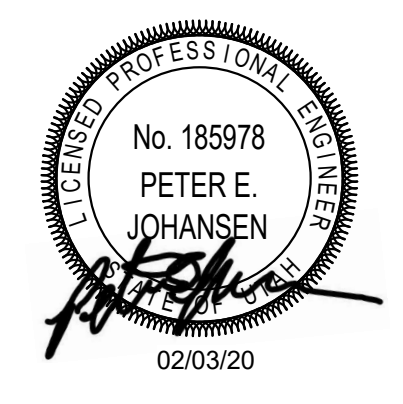
- 1 CIRCUIT ALL EXIT SIGNS TO ELS-14. DO NOT SWITCH.
- 2 SET DURATION FOR OCCUPANCY SENSORS IN HALLWAYS TO MAXIMUM SETTING.

SHEET KEYNOTES

- 1 PROVIDE BATTERY PACK IN FIXTURE OVER TRANSFER SWITCH.
- 2 PROVIDE BATTERY PACK AND PHOTO CELL IN WALL PACK BY GENERATOR.
- 3 WALL MOUNT STRIP LIGHT ABOVE DOOR.



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Tooele Valley Dialysis Clinic Expansion

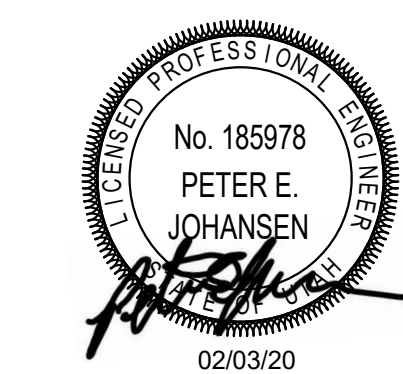
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Tooele, Utah 84074

NJRA Project # 19230.00
Construction Documents Feb 03, 2020

LIGHTING
PLAN LEVEL 1

EL101

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INTERIOR LIGHTING FIXTURE SCHEDULE

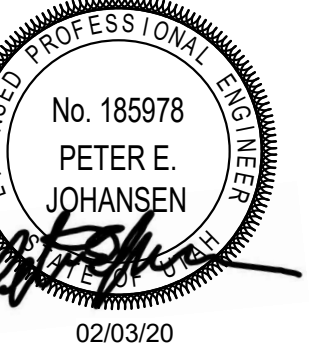
ABBREVIATIONS		GENERAL NOTES			
MOUNTING B - BASE C - CEILING F - FLANGE G - GRID P - PENDANT PL - POLE R - RECESSED S - SURFACE W - WALL	LUMINAIRE OPTIONS AR/R - AIR RETURN AND HEAT REJECTION DL - DAMP LOCATION EOC - EARTHQUAKE CLIPS F - FUSING HLD - HINGED AND LATCHED DOOR HS - HOUSE SIDE SHIELD PS - PHOTOCELL SWITCH QRS - QUARTZ RESTRIKE ST - STATIC WG - WIRE GUARD WL - WET LOCATION	FINISH MW - MATTE WHITE BL - BLACK SL - SILVER GL - GOLD CL - CLEAR PW - PAINTED WHITE EA - EXTRUDED ALUMINUM S - STEEL GS - GALVANIZED STEEL C - CAST CBA - COLOR BY ARCHITECT SCBA - STANDARD COLOR BY ARCHITECT CCA - CUSTOM COLOR BY ARCHITECT FS - MEETS FEDERAL STANDARD 209D TP - THERMALLY PROTECTED FL - FLUSH R - REGRESS M - MITERED	DIFFUSER/LENS #A - ACRYLIC #THICK #GA - ACRYLIC #THICK (OPAL) GC - GLASS (CLEAR) GO - GLASS (OPAL) GF - GLASS (FROSTED) SOL - SOFT GLOW LENS HPL - HIGH PERFORMANCE LENS DO - DROP OPAL CGL - CONVEX GLASS LENS S - SATIN LENS	REFLECTOR OP - NONE/OPEN SP - SPECULAR SS - SEMI-SPECULAR D - DIFFUSE (WHITE ENAMEL) SC - SPECULAR (COLORED) PR - PRISMATIC FDR - FULL DEPTH REFLECTOR DS - DIFFUSE (SEMI SPECULAR) SILVER LI - LOW RIDESCENT IR - IRRIDESCENT SL - SILVER GL - GOLD CA - CLEAR ALZAK	<ol style="list-style-type: none"> PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. 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. 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. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, DRIVERS, AND LAMPS. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER.

ID	DESCRIPTION	NOMINAL SIZE				MOUNTING	TYPE	COLOR TEMP	CRI	DRIVER CONFIGURATION	VOLTAGE	WATTS	FINISH	FIXTURE LUMENS	DIFFUSER/LENS	REFLECTOR	OPTIONS	NOTES	MANUFACTURER (CATALOG SERIES)			
		LENGTH	DEPTH	HEIGHT	DIAMETER/APERTURE														OPTION 1	OPTION 2	OPTION 3	
(DX-1)	6" ROUND, RECESSED LED DOWNLIGHT, SEMI-SPECULAR REFLECTOR, WHITE TRIM FINISH	-	-	-	0' - 6"	CR	LED	3500K		0-10V DIMMING (10%)	120/277	19	-	1500						GOTHAM (EVO-3515-6AR-WD-LSS-MVOLT-EZ10)	LITON (LHALD625C034UE-D10L RALD6SWF160-B60-T35)	HALO (PD6)
(DX-2)	6" ROUND, RECESSED LED DOWNLIGHT, SEMI-SPECULAR REFLECTOR, WHITE TRIM FINISH	-	-	-	0' - 6"	CR	LED	3500K		0-10V DIMMING (10%)	120/277	23	-	2000						GOTHAM (EVO-3520-6AR-WD-LSS-MVOLT-EZ10)	LITON (LHALD625C034UE-D10P1 LRA LD6SWF160-B60-T35)	HALO PD6
(DX-6)	6" ROUND, RECESSED LED LENSED DOWNLIGHT, WET LOCATION, REGRESSED LENS, WHITE REFLECTOR, WHITE TRIM FINISH	-	-	-	0' - 6"	CR	LED	3500K		0-10V DIMMING (<1%)	120/277	23	-	2000						GOTHAM (EVO-3520-6WR-WD-MVO-LT-EZ10)	INTENSE (SS6G3DR)	PRESCOLITE (LF6SL)
(E10-2)	EXIT SIGN, EDGE LIT LED ACRYLIC, DUAL FACE, GREEN LETTERING, BRUSHED ALUMINUM FINISH, UNIVERSAL MOUNTING	-	-	-	-	UNV	LED	GREEN		NO DIMMING		3	-	0			AC ONLY			DUAL-LITE (LECDGWA)	EVENLITE (TEX-AC-G-2M)	CHLORIDE (44RLU-2-G)
(ESA-1)	4' LED STRIP LIGHT, WHITE FINISH, INTEGRAL EMERGENCY BATTERY PACK	4' - 0"	-	-	-	CS	LED	3500K		NO DIMMING		42	-	3000			BATTERY PACK			LITHONIA (ZL2N-L48-3000L-MDD-MVOLT-40K-80CR-WH)	DAYBRITE (LF4FR3140UDZT)	METALUX (4SNLED-LD4-30SL-LW-U-NV-L840-CD1-U)
(G-1)	2' X 2' LED FLAT PANEL, GRID LAY-IN	2' - 0"	2' - 0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	40	-	3400						VIVIDLEDS (VVDES2240-35-UNV-WH-D1)		
(G-2)	2' X 4' LED FLAT PANEL, GRID LAY-IN	4' - 0"	2' - 0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	50	-	4300						VIVIDLEDS (VVDES2450-35-V27-WH-D1)		
(SS-2)	2' X 4' LED TROFFER, EDGE LIT PANELS, GRID LAY-IN	4' - 0"	2' - 0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	38	-	4300						METALUX (24EN-LD2-45-UNV-L835-C-D1-U)	LEDALITE (4224-D1-ST-L-8B-D-S-7-2-E)	
(NF-4)	4" X 4" LINEAR RECESSED SLOT, GRID MOUNT	4' - 0"	0' - 4"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	19	-	1500						PINNACLE (E4A-835-4-QX-U-OL1-1-W)		
(NF-8F)	4" X 8" LINEAR RECESSED SLOT, GRID MOUNT	8' - 0"	0' - 4"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	19	-	1500						PINNACLE (E4A-835-4-QX-U-OL1-1-W)		
(OC-32)	LED WALLPACK, RECESSED JBOX, FULLY GASKETED, WET LABEL, PROVIDE WITH INTEGRAL EMERGENCY BATTERY	-	-	-	-	WS	LED	4000K		0-10V DIMMING (10%)		52	BRZ	5000			BATTERY PACK			LITHONIA (WST LED P3 40K VW MVOLT ETWC DBXD)	MCGRAW EDISON (IST-C02-LED-E1-BL3-CBA-WM-SCBA-EBPL)	VISIONAIRE (MLB2-TX-48L-34K-UNV-4SNLED-LD4-30SL-LW-U-NV-L840-CD1-U)
(SA-1)	4' LED STRIP LIGHT, WHITE FINISH	4' - 0"	-	-	-	CS	LED	3500K		NO DIMMING	120/277	42	WH	3000						LITHONIA (ZL2N-L48-MDD-MVOLT 40K 80CR WH)	DAYBRITE (LF4FR3140UDZT)	METALUX (4SNLED-LD4-30SL-LW-U-NV-L840-CD1-U)
(UC-5)	UNDER CABINET	2' - 0"	-	-	-		LED	3500K		ELV DIMMING	120/277	8		600						DAY-BRITE (LINC3100E-L28-935-UNV-WHCS-DM)	KENALL (AUCLED-1-MW-11L39K-2-427)	AIREY-THOMPSON (13HC-N-35K-24-2-3-D11)
(W-3)	4" NARROW BODY WRAPAROUND, OPAL ACRYLIC LENS	4' - 0"	-	-	-	CS	LED	3500K		NO DIMMING	120/277	32	WH	4200						LITHONIA (LBL4-LP835)	COLUMBIA (LWC4-35VL-EU)	METALUX (WNLED-LD1-41-1-UNV-L8-35-CD1-U)

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Tooele Valley Dialysis Clinic Expansion

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Tooele, Utah 84074



LIGHTING/SPACE CONTROL TYPE SCHEDULE

WIRING LEGEND		APPROVED MANUFACTURERS	LIGHTING CONTROL ID	GENERAL NOTES															
_____ LINE VOLTAGE WIRING - - - - - 0-10V WIRING CAT5E CABLING _____ WIRING BY OTHERS ○---○ TMP SEGMENT NETWORK CABLING		1. WATTSTOPPER (BASIS OF DESIGN) 2. NLIGHT 3. HUBBEL BUILDING AUTOMATION 4. GREENGATE	1. # = NUMBER OF ZONES 2. D = DIMMING, S = SWITCHING 3. P = DAYLIGHT PHOTOCCELL 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. OCCUPANCY SENSOR LOCATIONS AND QUANTITIES TO BE DETERMINED BY MANUFACTURER, AND SHOWN ON SUBMITTED SHOP DRAWINGS. 6. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS. 7. WIRING MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED WIRING THAT WILL BOTH MEET THE MANUFACTURERS REQUIREMENTS AND MATCH WITH THE SHOWN SYSTEM. 8. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS INCLUDING OCCUPANCY SENSOR LAYOUT AND COVERAGE PATTERNS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR 100% COVERAGE OF SPACES WITH OCCUPANCY SENSOR CONTROL.															
ID	DETAIL	LIGHTS ON CONTROL	LIGHTS OFF CONTROL	LIGHTING CONTROL TYPE	DAYLIGHT SENSOR SETTING (FC)	TIME DELAY TO OFF (MIN.)	BAS AUX RELAY SIGNAL	PLUG LOAD CONTROLLER	NETWORKED CONTROLS	BUTTON_1	BUTTON_2	BUTTON_3	BUTTON_4	BUTTON_5	BUTTON_6	BUTTON_7	BUTTON_8	BUTTON_9	NOTES
1D1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP-ON/RAISE; BOTTOM-OFF/LOWER	-	-	-	-	-	-	-	-	-
1S1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	ON/OFF	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS-ON PRESS-OFF LABEL ID: ON/OFF	-	-	-	-	-	-	-	-	-
1S3		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	ON/OFF	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS-ON LABEL ID: ON	FUNCTION: PRESS-OFF LABEL ID: OFF	-	-	-	-	-	-	-	-

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CABLE/OUTLET COLOR SCHEDULE	
COLOR	TYPE
BLUE	ANALOG PHONE
BLUE	DATA
BLUE	IP SECURITY CAMERAS
YELLOW	WIRELESS

EQUIPMENT/CABLE LIST

THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS." THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION, WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. 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 SYMBOLS.

SYMBOL	ITEM DESCRIPTION	ACCEPTABLE TYPES
	STATION CABLE, DATA - CATEGORY 6A FUTP RISER, BLUE, DATA	SIEMON 9A6R4-A5-06-R1A
	STATION CABLE, DATA - CATEGORY 6A FUTP PLENUM, YELLOW, WIRELESS DATA	SIEMON 9A6P4-A5-05-R1A
	50 PAIR CATEGORY 3 RISER CABLE, GRAY	GENERAL CABLE 2133161.99 OR EQUAL
	FIBER OPTIC CABLE, SINGLEMODE, 24 STRAND, ARMORED, RISER CABLE, YELLOW	SIEMON 96C8R02ALE205A
	LC CONNECTOR, SIMPLEX SINGLEMODE	SIEMON FC1-LC-SM-802
∇	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, 2 POSITION	SIEMON 10GMX-FP802-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06
	BLANK INSERT, WHITE	SIEMON MX-BL-02
∇	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 2 POSITION	SIEMON 10GMX-FP802-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06
2 ∇ A	DATA OUTLET, FURNITURE FACEPLATE, BLACK	SIEMON MX-UMA-01
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06
	BLANK MODULE, BLACK	SIEMON MX-BL-01
C	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	SIEMON MX-SM22-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06
(+) C	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	SIEMON MX-SM22-02
	CATEGORY 6A JACK - DATA, YELLOW	SIEMON Z6A-S05
	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 1 POSITION	SIEMON MX-SM21-02
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06
SPP1	48 PORT, 1RU ANGLE PATCH PANEL WITH OUTLETS	SIEMON Z6AS-PA-48
RPP1	48 PORT, 2RU ANGLE PATCH PANEL, 110 STYLE	SIEMON HD5-48A
	FIBER PATCH PANEL, 3RU	SIEMON RIC3-48E-01
PPPT	FIBER SPLICE CASSETTE, 12 FIBER, LC CONNECTOR	SIEMON RSC12-LCUSMA1
	BLANK ADAPTER PLATE, BLACK	SIEMON RIC-F-BLNM-01
HWM	HORIZONTAL WIRE MANAGERS, 4RU	PANDUIT NCMHAEF4
VWM	VERTICAL WIRE MANAGERS, DOUBLE SIDED, BLACK, 8" TALL x 10" WIDE	CHATS WORTH 40096-715
	EQUIPMENT RACK 19" x 8", 52 RU, BLACK	CHATS WORTH 55053-715
	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
	TRIANGLE BRACKETS, BLACK	CHATS WORTH 11746-724
	END CLOSING KIT, CABLE RUNWAY, BLACK	CHATS WORTH 11700-724
	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
	PLYWOOD BACKBOARD, 4' x 8', GRADE AC, FIRE TREATED & PAINTED	-
	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR	-
	TELECOMMUNICATIONS GROUNDING BUS BAR	-

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

GENERAL PROJECT NOTES

- 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 CABLE PULL SPECIFIED, COIL 15' OF EXCESS CABLE AT THE STATION END FOR FUTURE USE. NEATLY COIL 15' ABOVE THE CEILING OR BELOW 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 YOU HAVE A SYSTEM THAT HAS NOT RACK ALLOCATION PLEASE CALL BOE SAUSEDO AT 801-707-3805.
- ALL DATA LOCATIONS ARE NOT SHOWN IN ET SHEETS. REFER TO ENLARGED POWER PLANS FOR DATA LOCATIONS IF NOT SHOWN ON ET SHEETS.

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

A	AUGMENTED
CAT	CATEGORY
E	ENHANCED
EA	EACH
ER	EQUIPMENT ROOM
FPP	FIBER PATCH PANEL
GIG	GIGA HERTZ
HWM	HORIZONTAL WIRE MANAGEMENT
NIC	NOT IN CONTRACT
OE	OWNER ELECTRONICS
PNM	PLENUM
PR	PAIR
PS	POWER SUPPLY
RPP	RISER PATCH PANEL
SPP	STATION PATCH PANEL
TC	TELECOMMUNICATIONS ROOM
TYP	TYPICAL
VWM	VERTICAL WIRE MANAGEMENT

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.

APPROVE: 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."

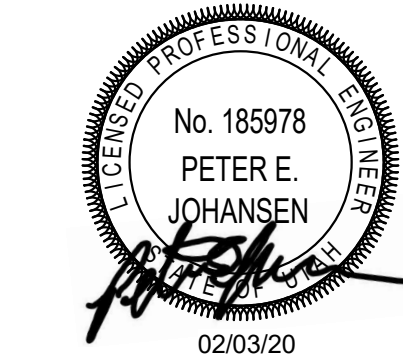
PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

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 OPERATIONS THEY ARE ENGAGED TO PERFORM.

ELECTRONIC SYSTEMS: THE TERM "ELECTRONIC 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....



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Tooele Valley Dialysis Clinic Expansion

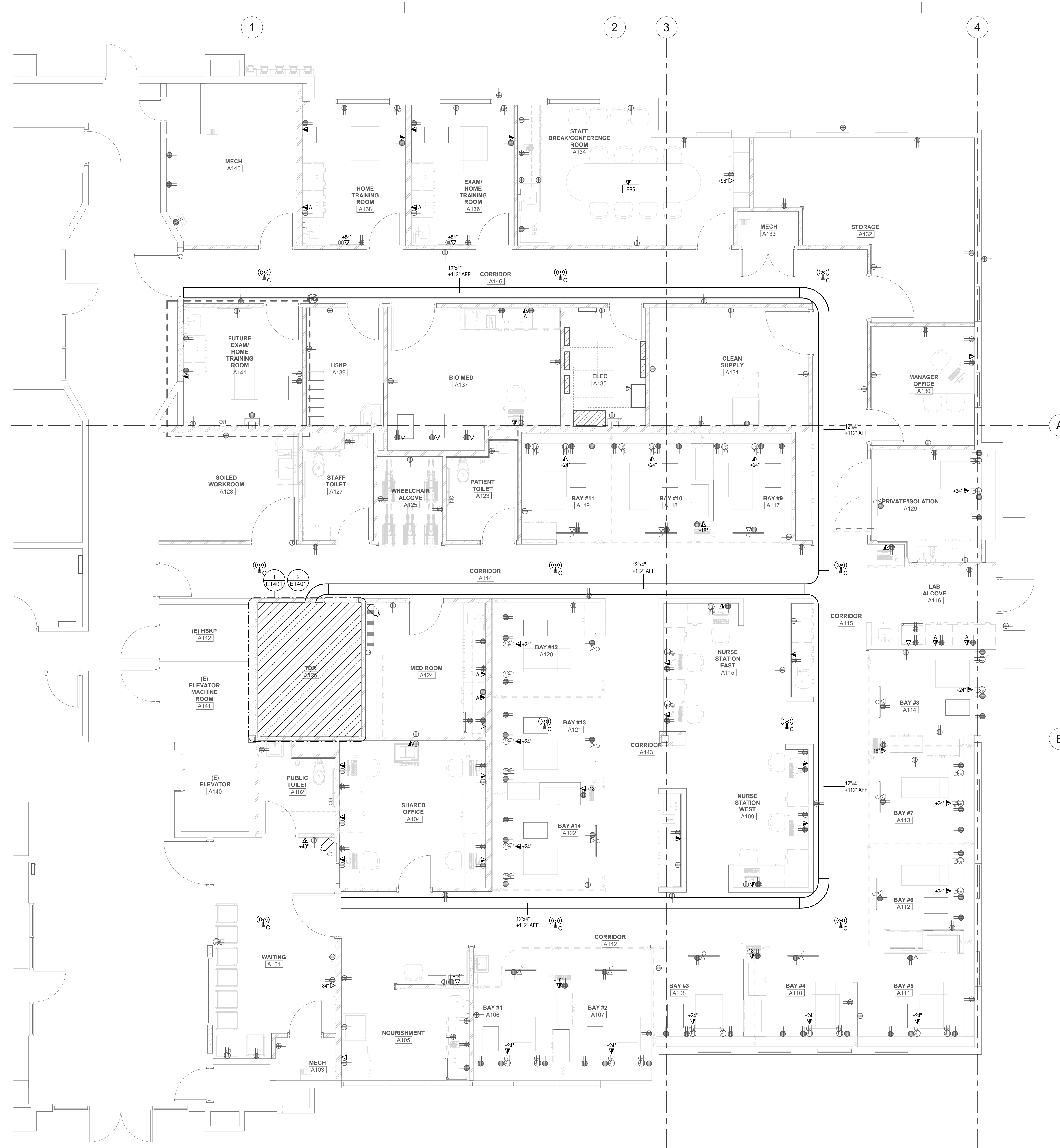
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TELECOM
SCHEDULES
AND NOTES

ET001

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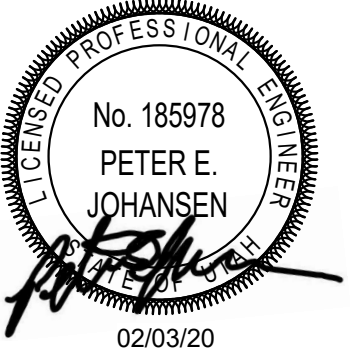


GENERAL SHEET NOTES

SHEET KEYNOTES



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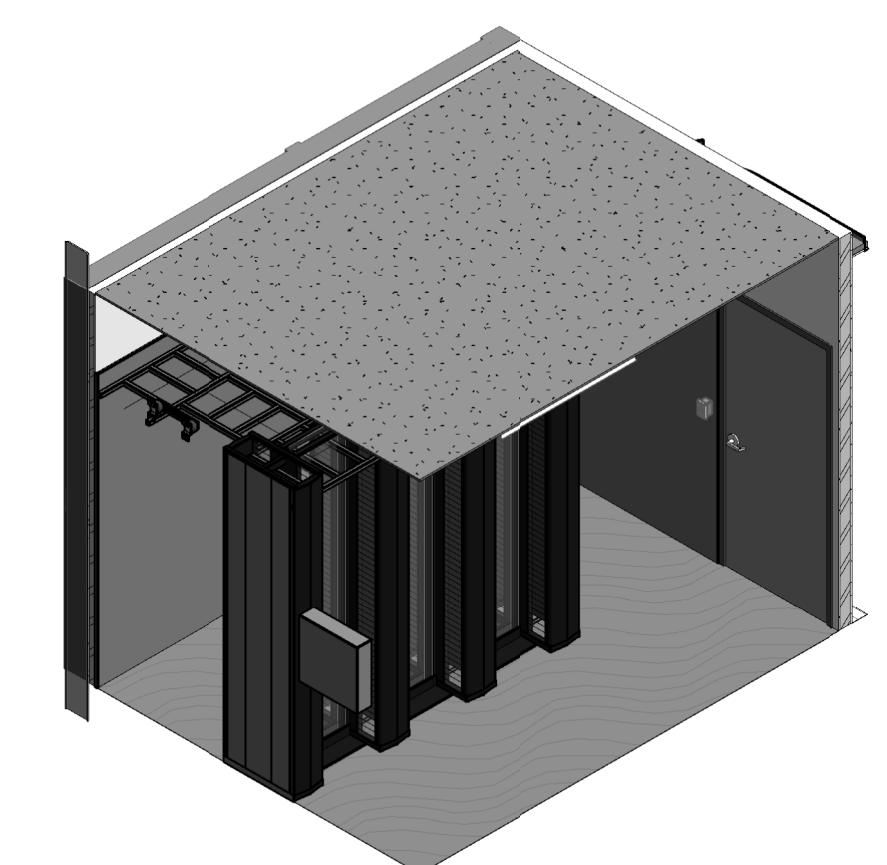
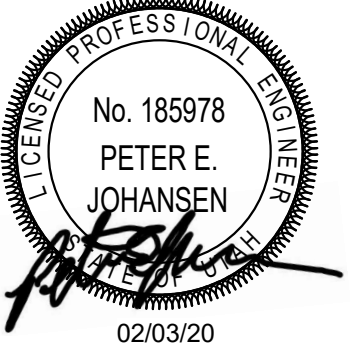
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TELECOM
PLAN LEVEL 1

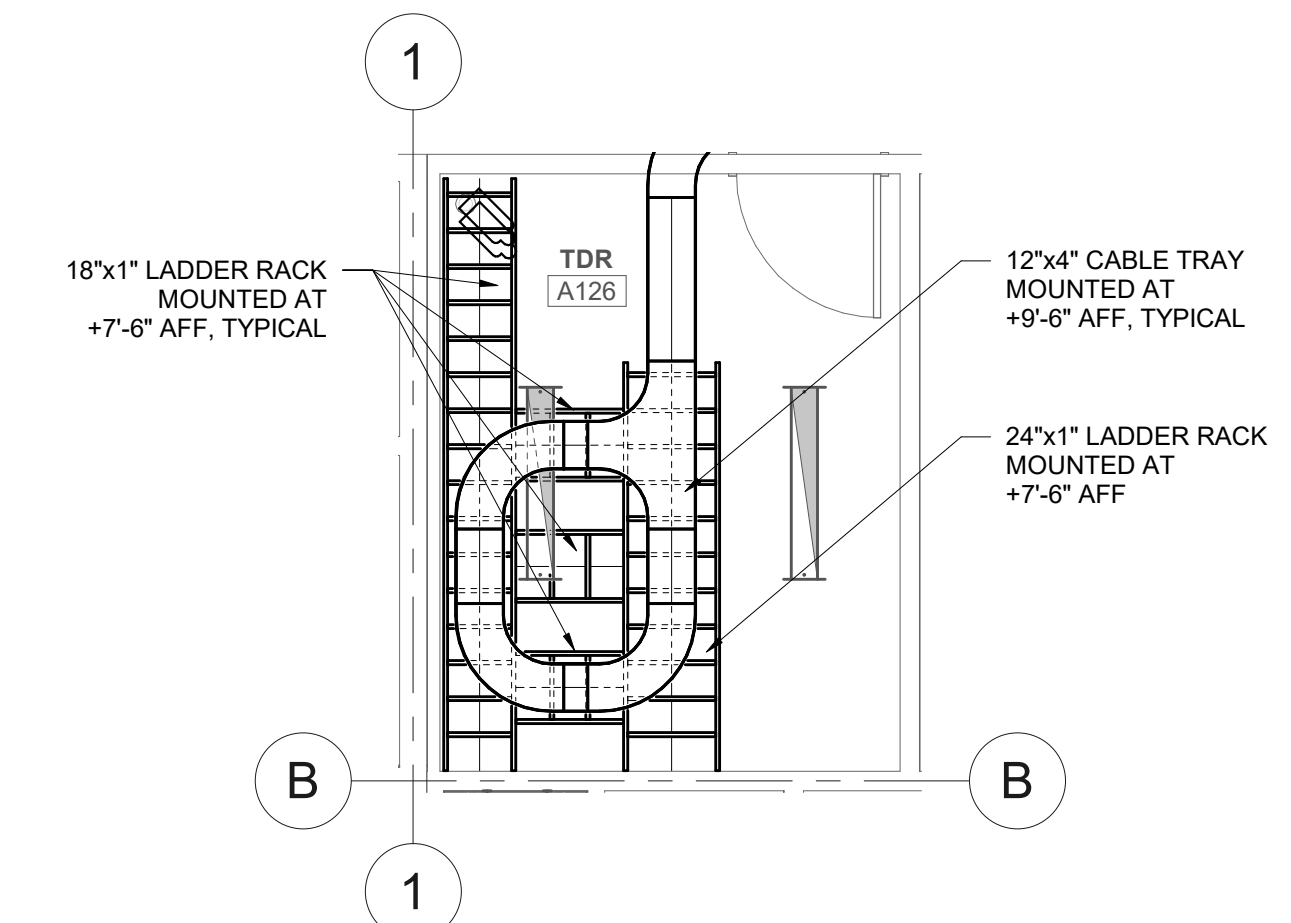
ET101

1 TELECOM PLAN LEVEL 1

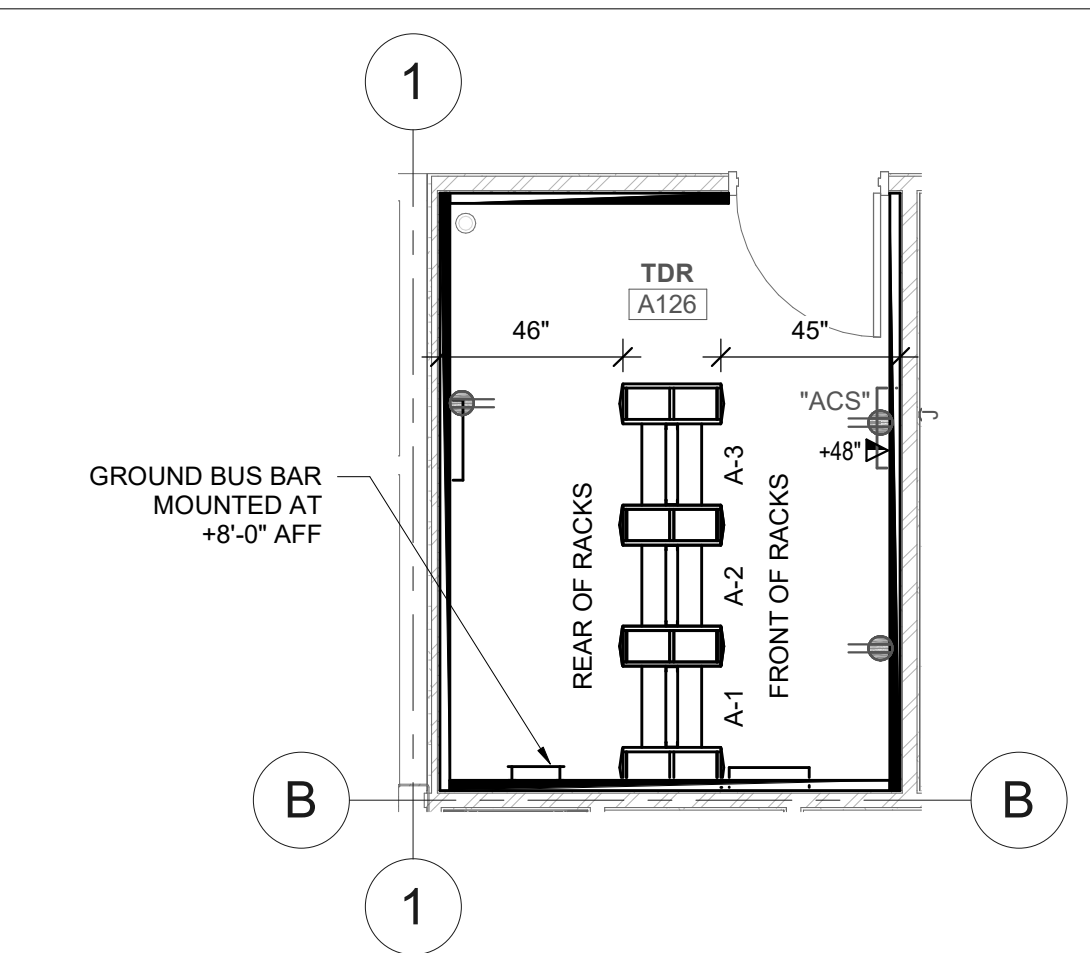
SCALE: 1/4" = 1'-0"



3 ENLARGED TDR A126 ISOMETRIC PLAN
SCALE:

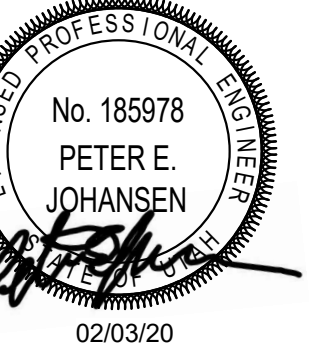


2 ENLARGED TDR A126 LADDER RACK PLAN
SCALE: 1/4" = 1'-0"

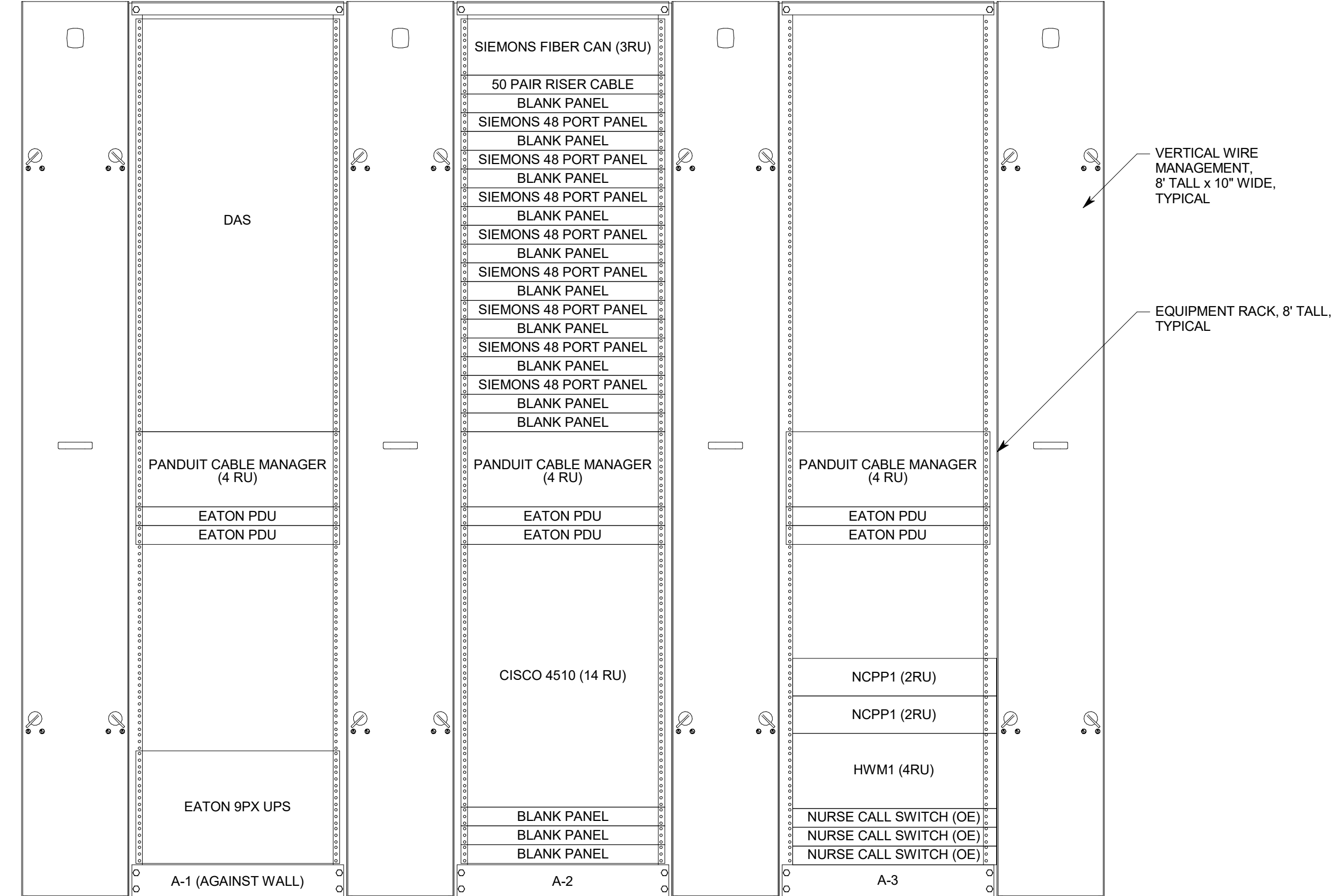


1 ENLARGED TDR A126 EQUIPMENT RACK PLAN
SCALE: 1/4" = 1'-0"

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DATA DEVICE DROP SCHEDULE - TDR A126				
DATA DEVICE TYPE	DETAIL LOCATION	COMM ROOM LOCATION	TOTAL BY FLOOR	Num of Drops
LEVEL 1				
CEILING DATA - CAMERA (1-DROP)	SEE DETAIL 7/ET502	TDR A126	2	2
CEILING WIRELESS ACCESS POINT (2-DROP)	SEE DETAIL 6/ET502	TDR A126	11	22
FLOOR DATA (2-DROP)	SEE DETAIL 2/ET502	TDR A126	1	2
WALL DATA (1-DROP)	SEE DETAIL 5/ET502	TDR A126	11	11
WALL DATA (2-DROP)	SEE DETAIL 1/ET502	TDR A126	40	80
WALL DATA - ABOVE COUNTER (2-DROP)	SEE DETAIL 1/ET502	TDR A126	10	20
WALL DATA - PHONE (1-DROP)	SEE DETAIL 2/ET502	TDR A126	1	1
Grand total			76	138



1 TELECOM RACK ELEVATION DETAIL, TDR A126
NO SCALE

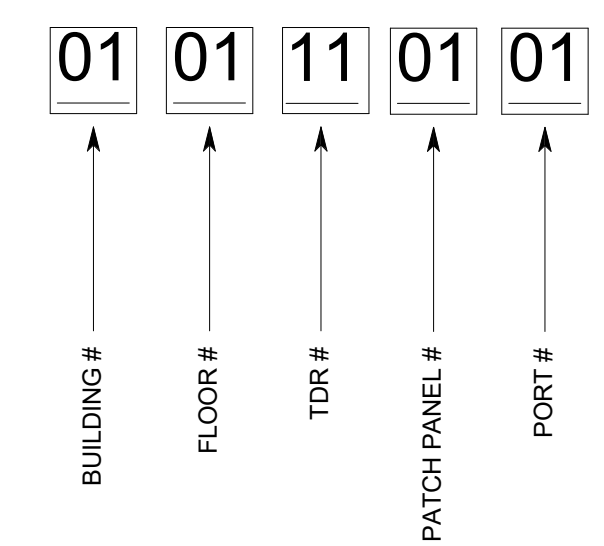
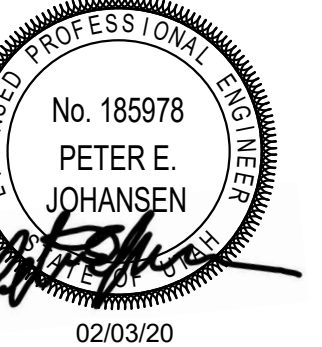
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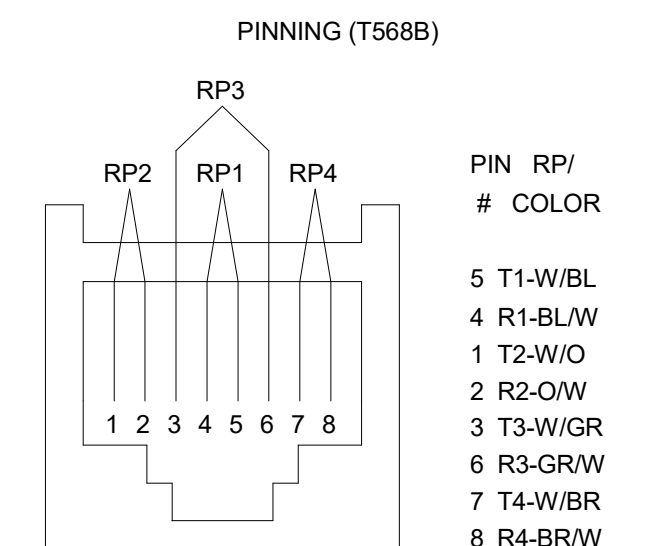
NJRA Project # 19230.00
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TELECOM
EQUIPMENT
RACK
ELEVATIONS

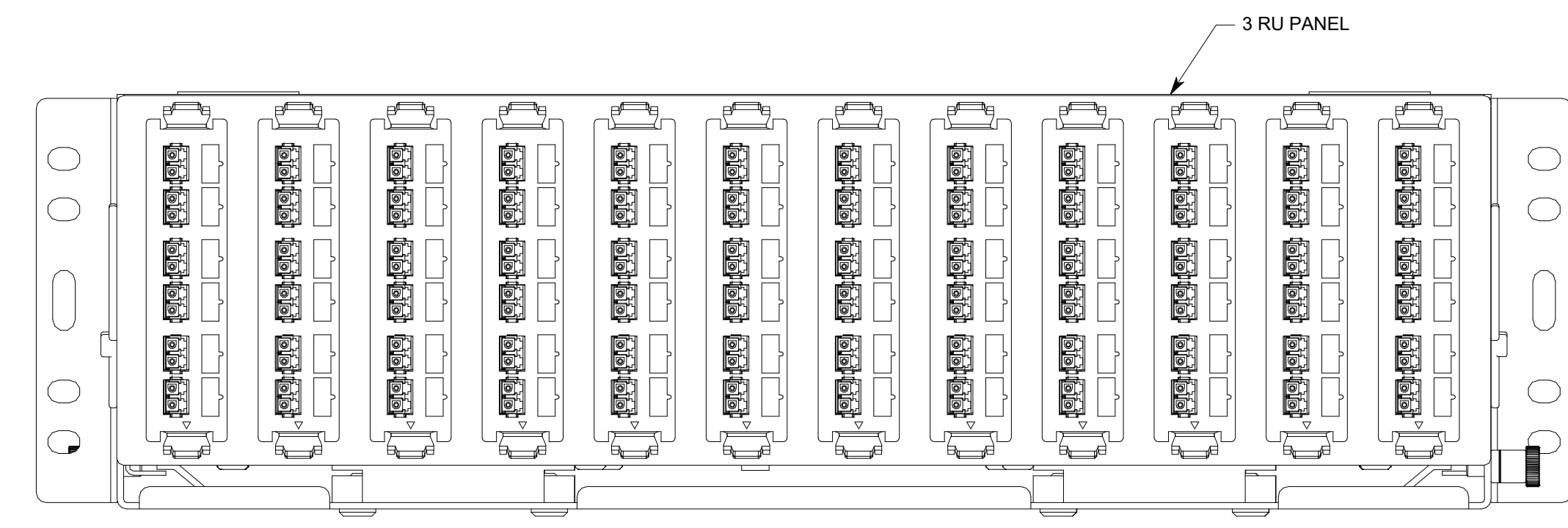
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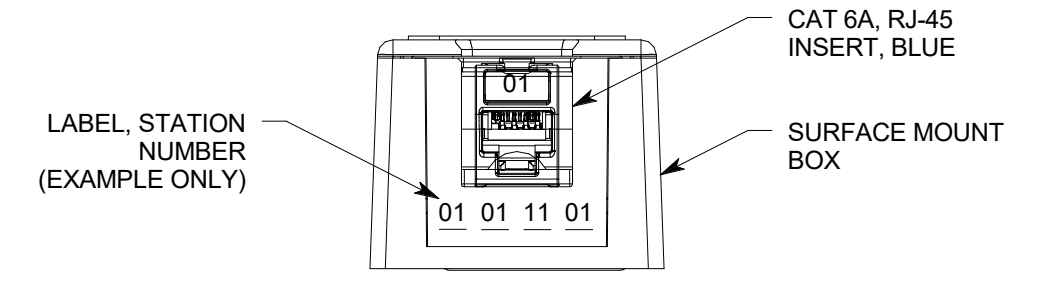
8 CABLE ID EXAMPLE DETAIL
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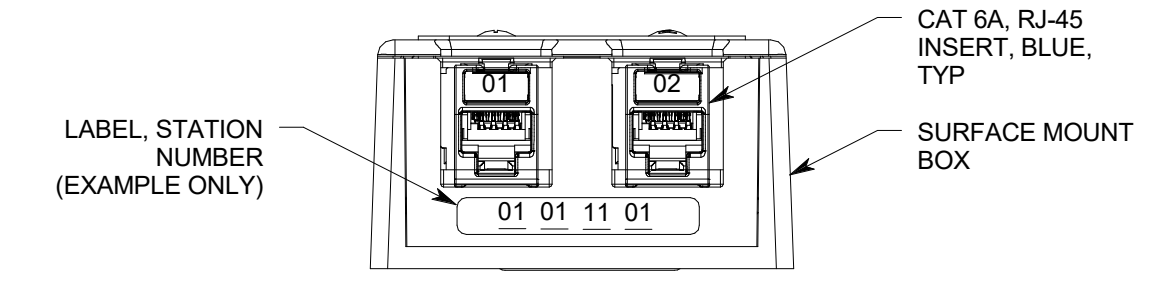
4 TYPICAL VOICE-DATA OUTLET PINNING DETAIL
NO SCALE



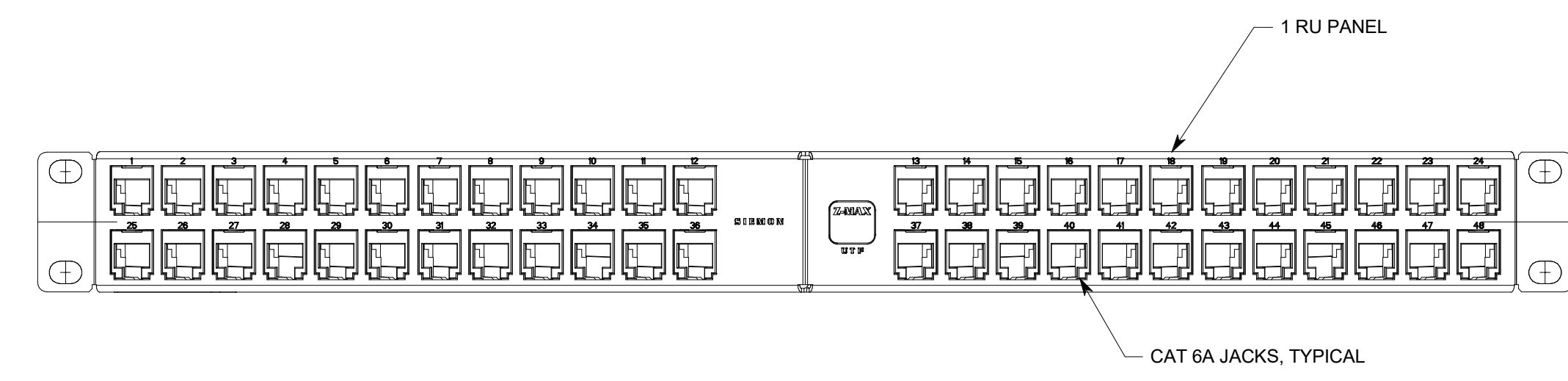
11 FIBER PATCH PANEL, (FPP1), TEC/TSER
NO SCALE



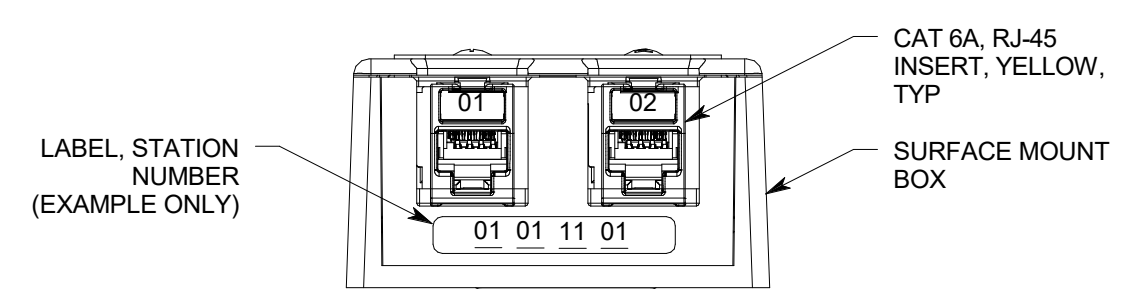
7 TYPICAL CAMERA DATA OUTLET
NO SCALE



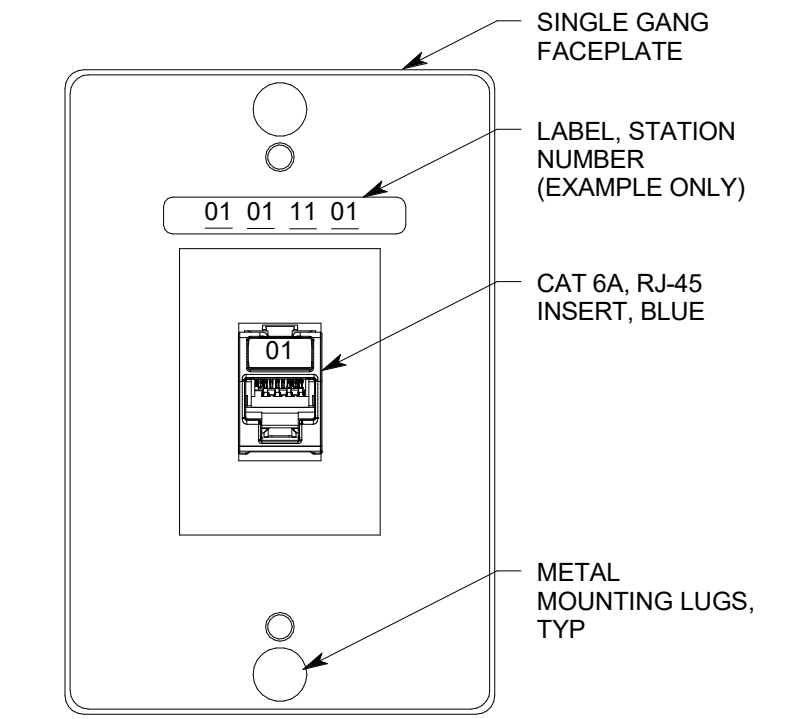
3 TYPICAL CEILING DATA OUTLET
NO SCALE



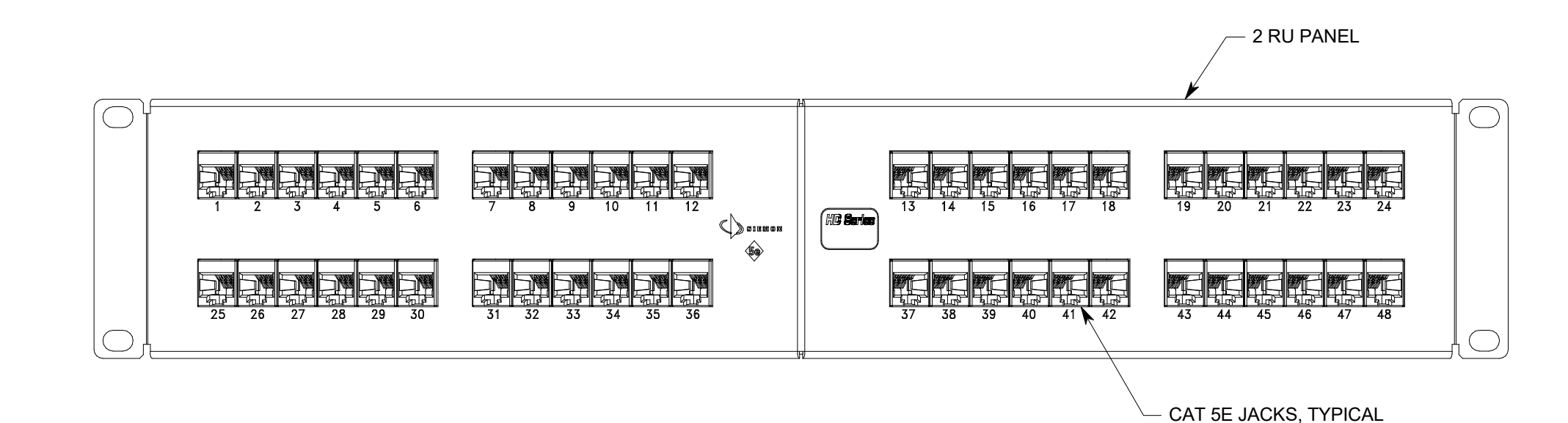
10 STATION PATCH PANEL, (SPP1), TDR
NO SCALE



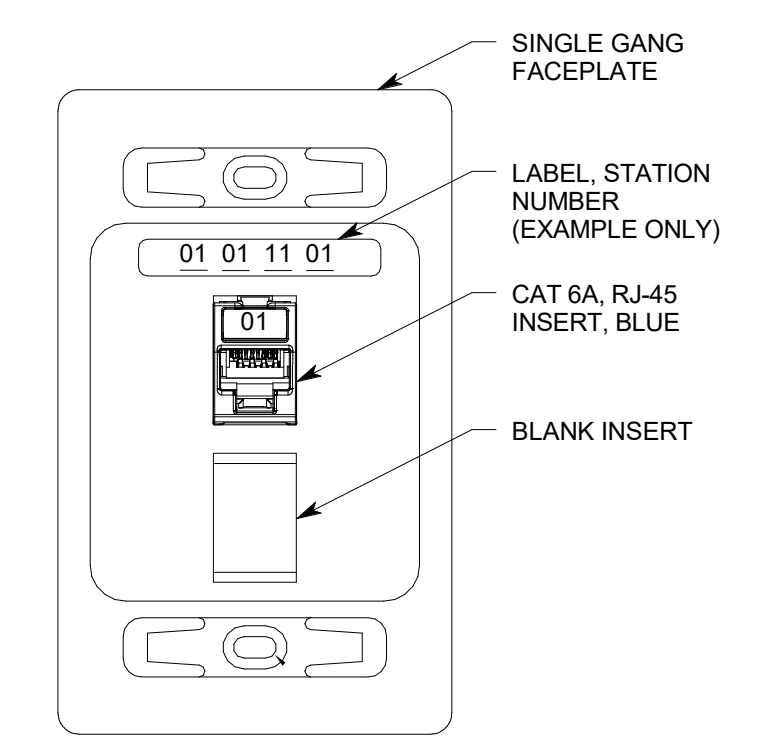
6 TYPICAL 'WAP' DATA OUTLET
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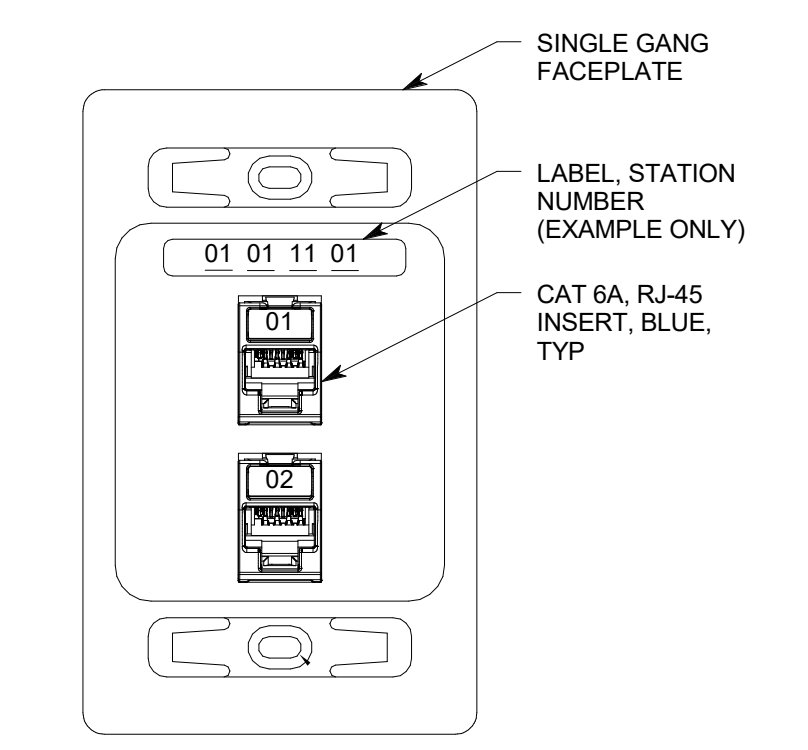
2 TYPICAL PHONE DATA OUTLET
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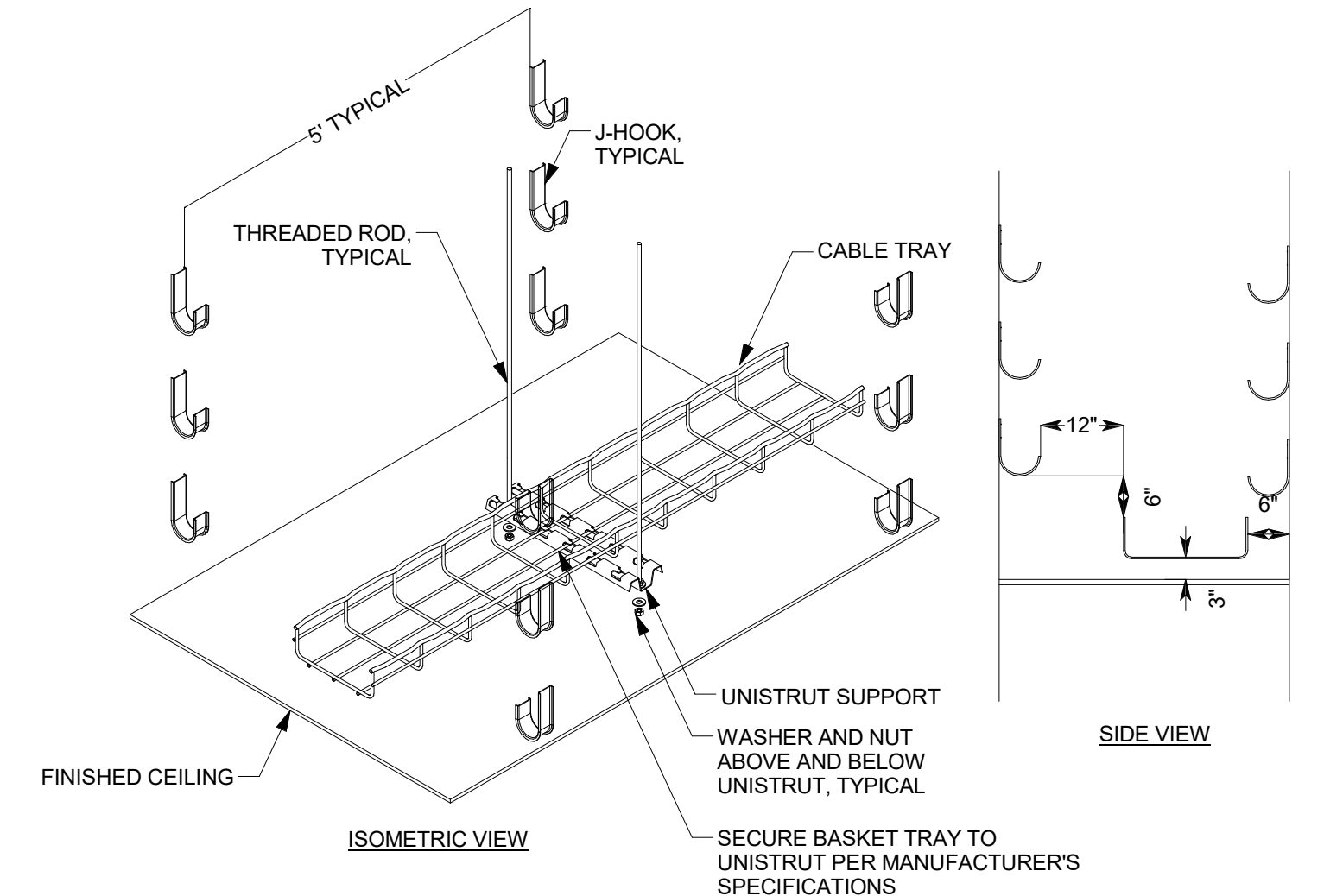
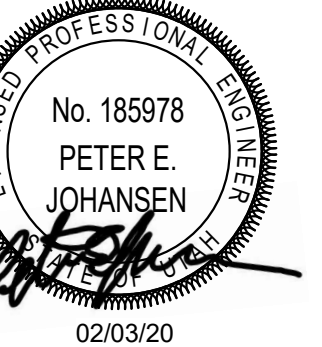
9 RISER PATCH PANEL, (RPP1), TDR, TEC/TSER
NO SCALE



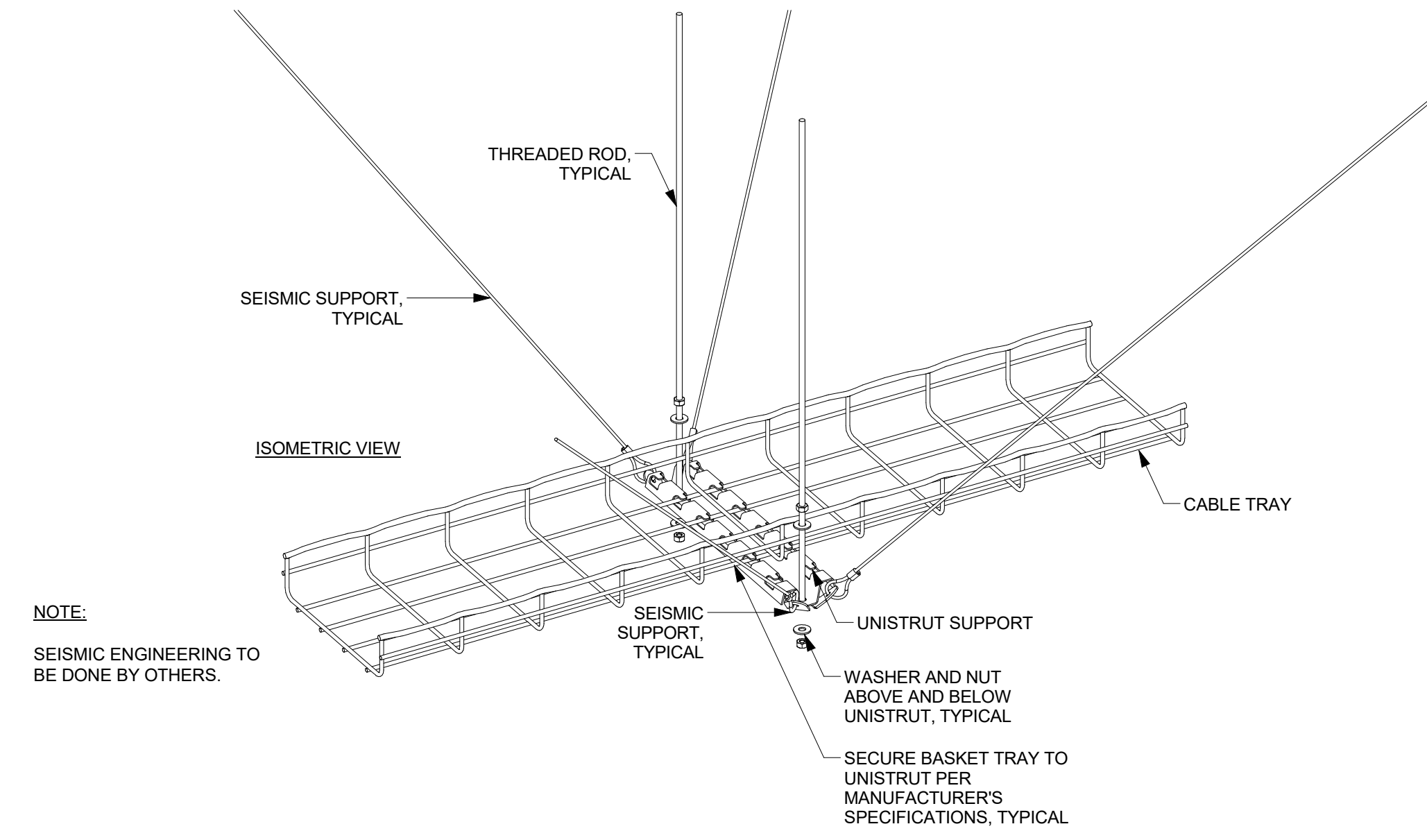
5 TYPICAL WALL DATA OUTLET
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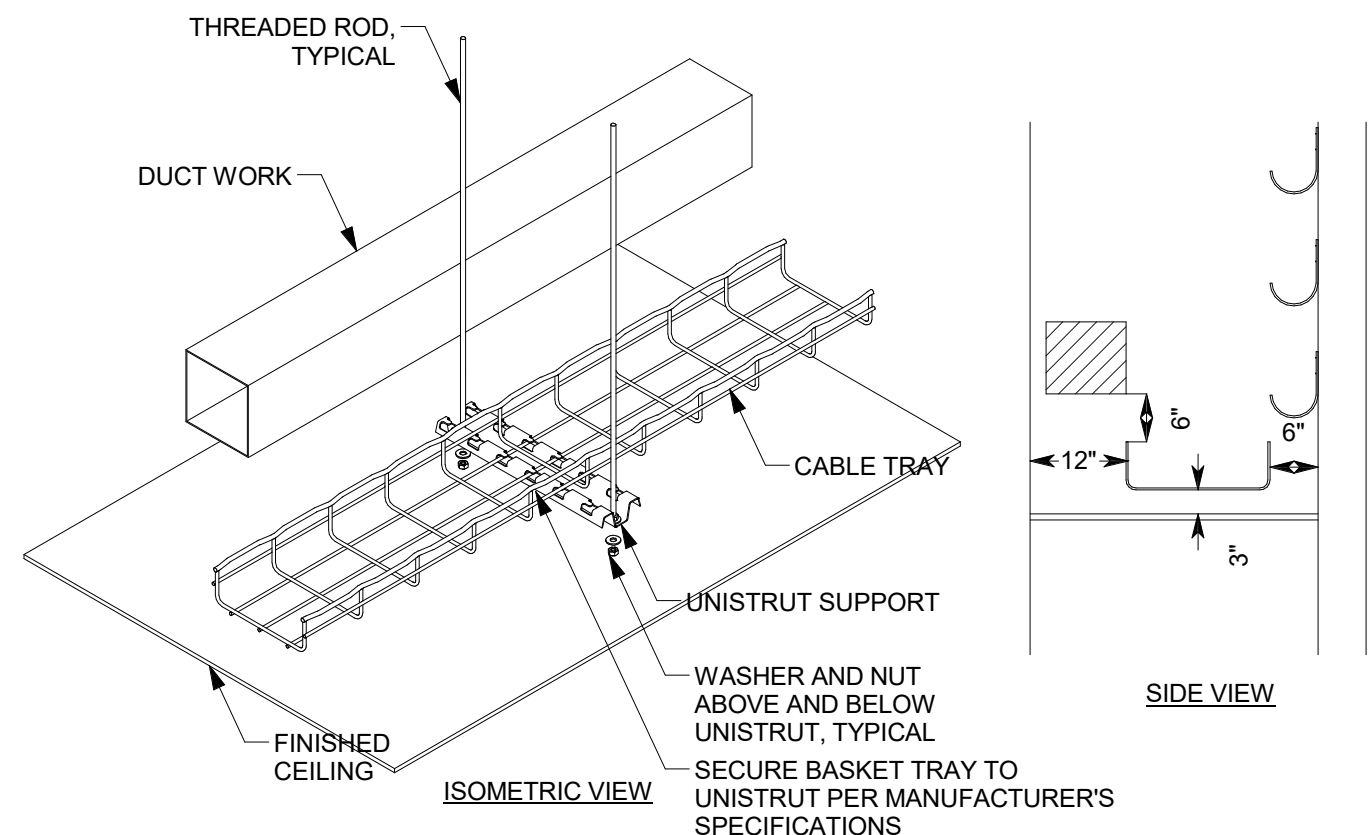
1 TYPICAL WALL DATA OUTLET
NO SCALE



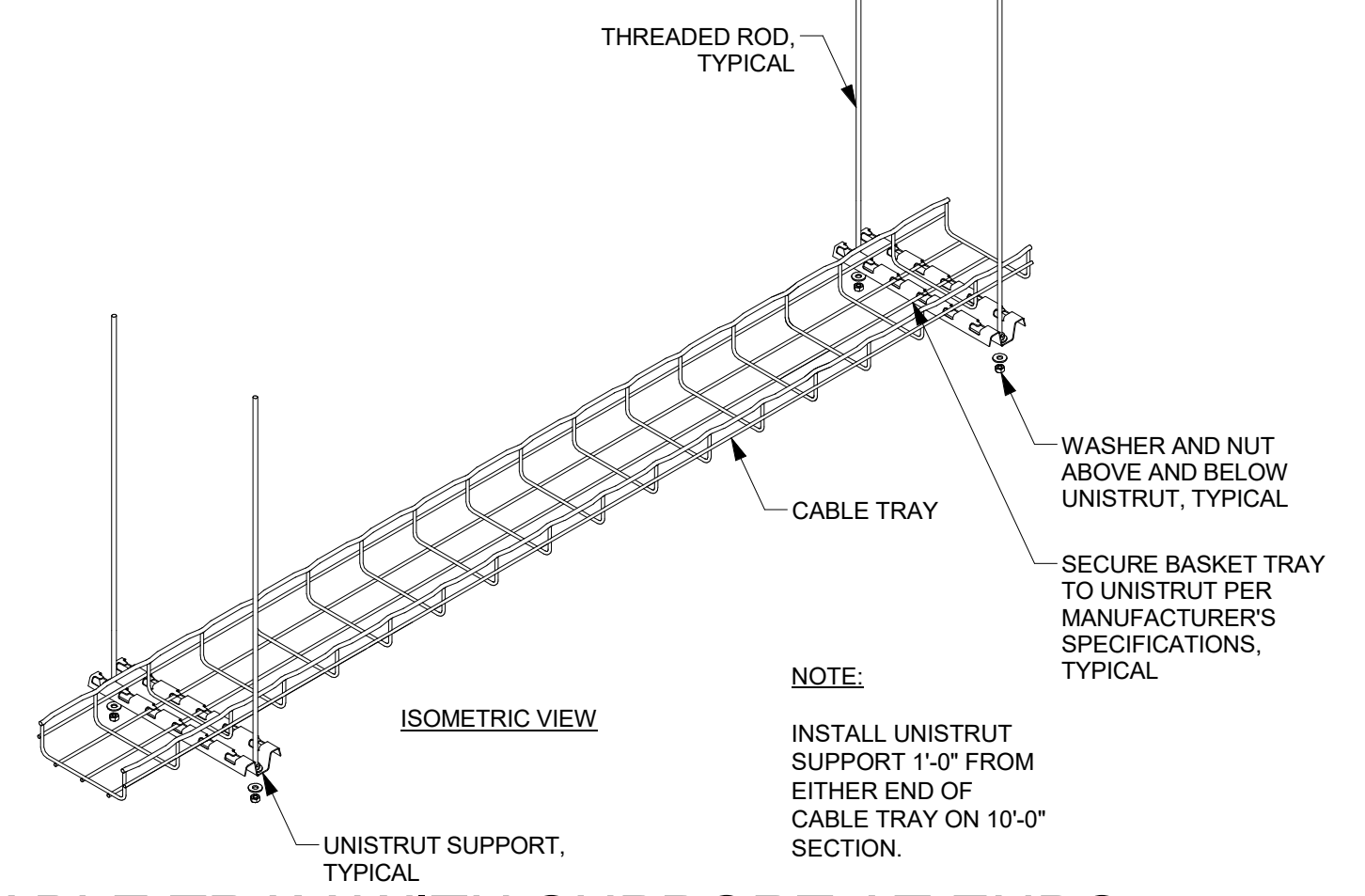
8 TYPICAL CABLE TRAY WITH J-HOOK INSTALL
NO SCALE



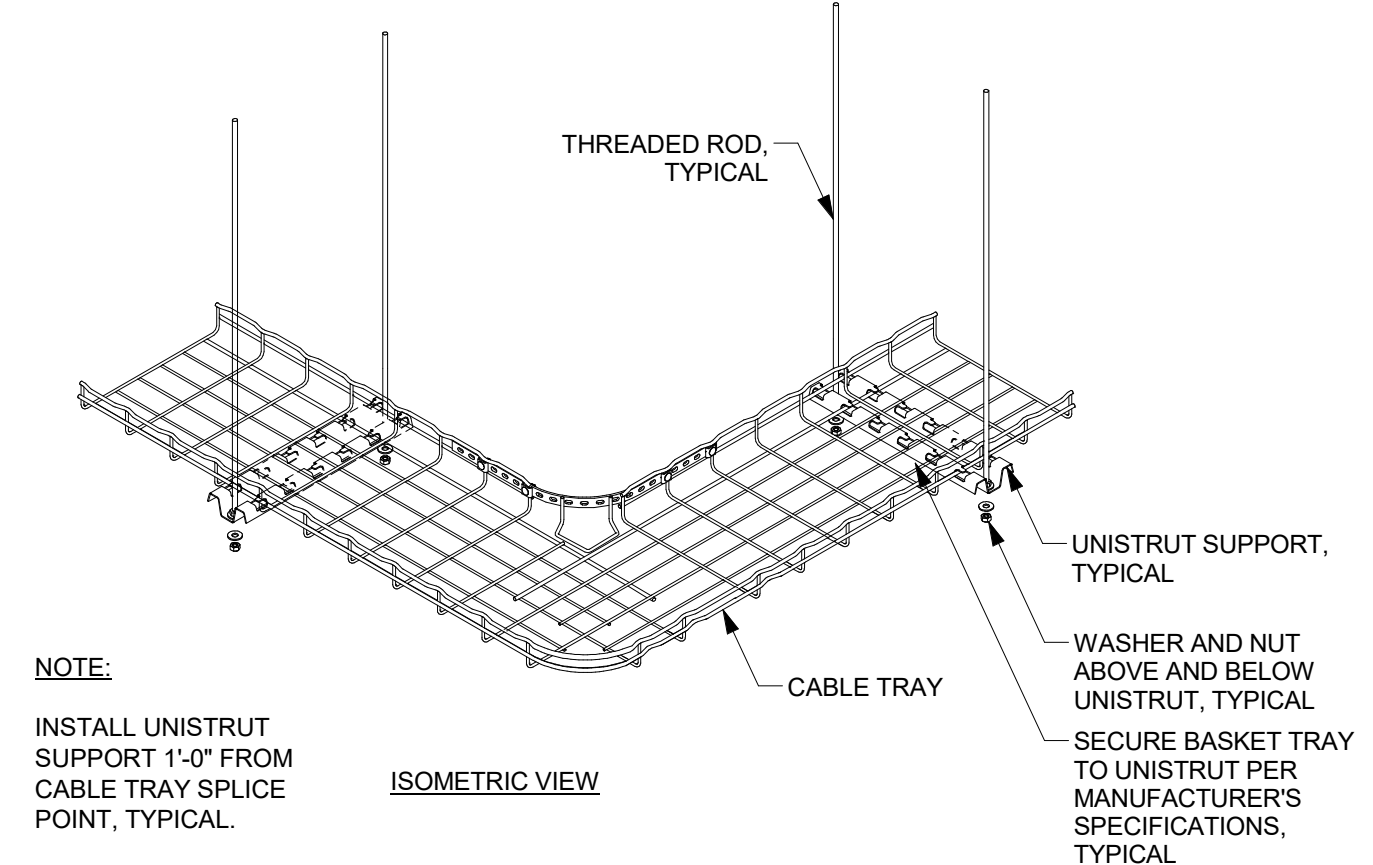
4 CABLE TRAY WITH SEISMIC SUPPORTS
NO SCALE



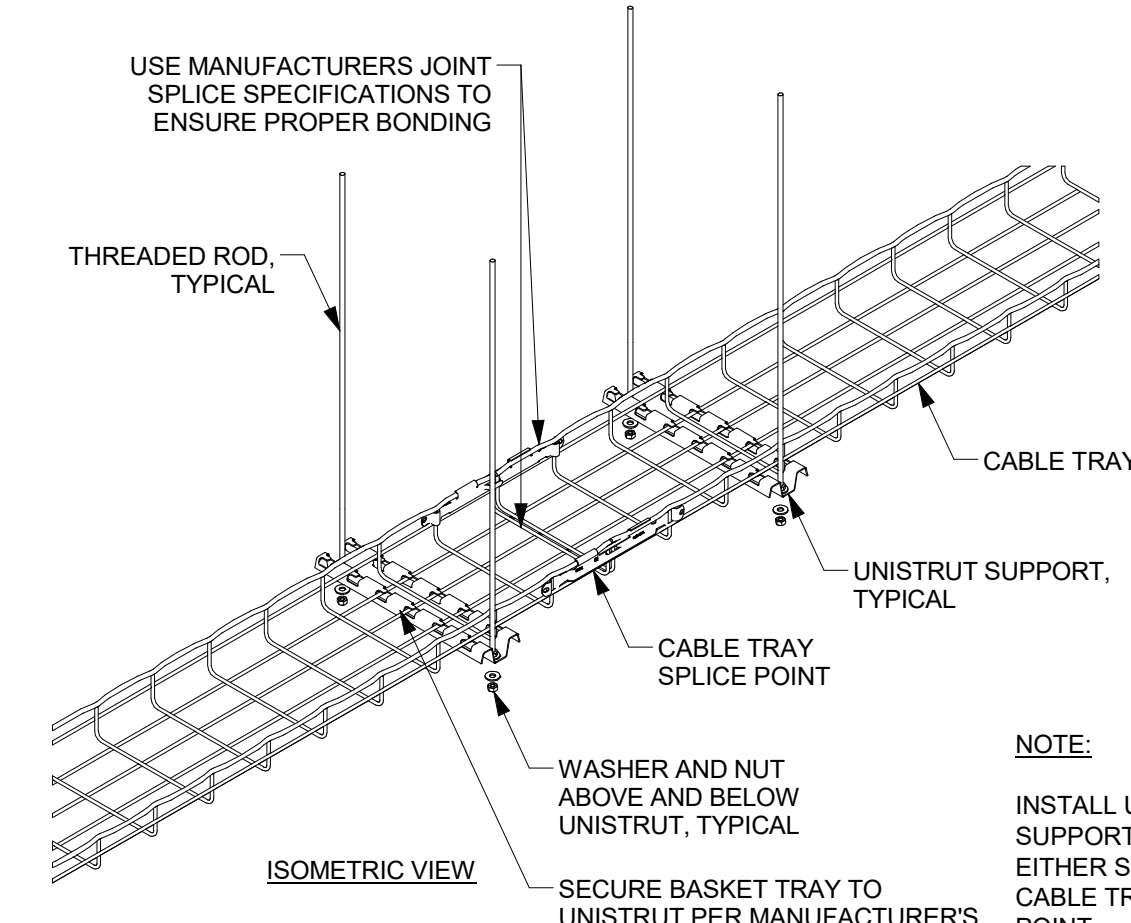
7 TYPICAL CABLE TRAY WITH PARALLEL OBSTRUCTION
NO SCALE



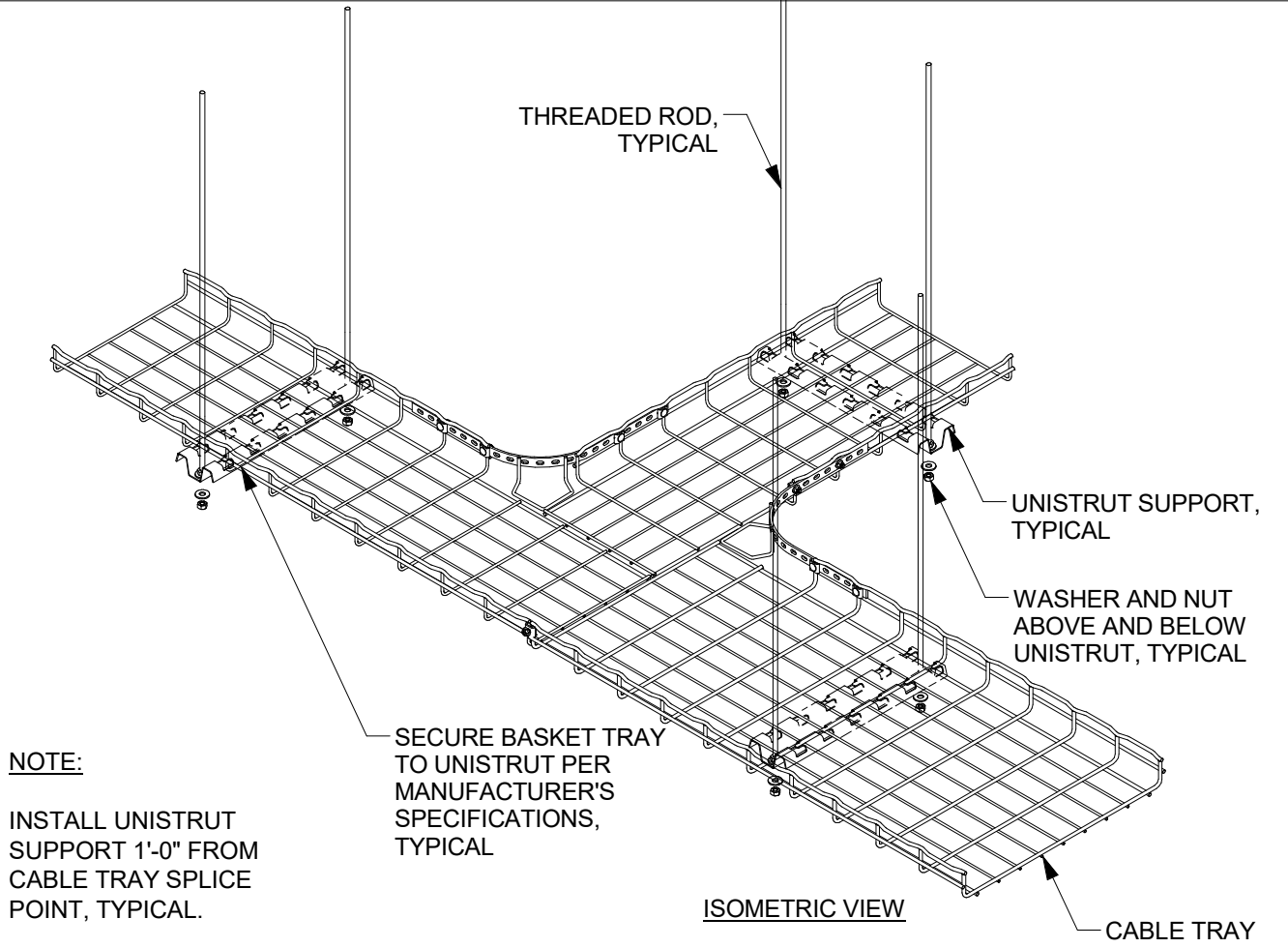
3 10' CABLE TRAY WITH SUPPORT AT ENDS
NO SCALE



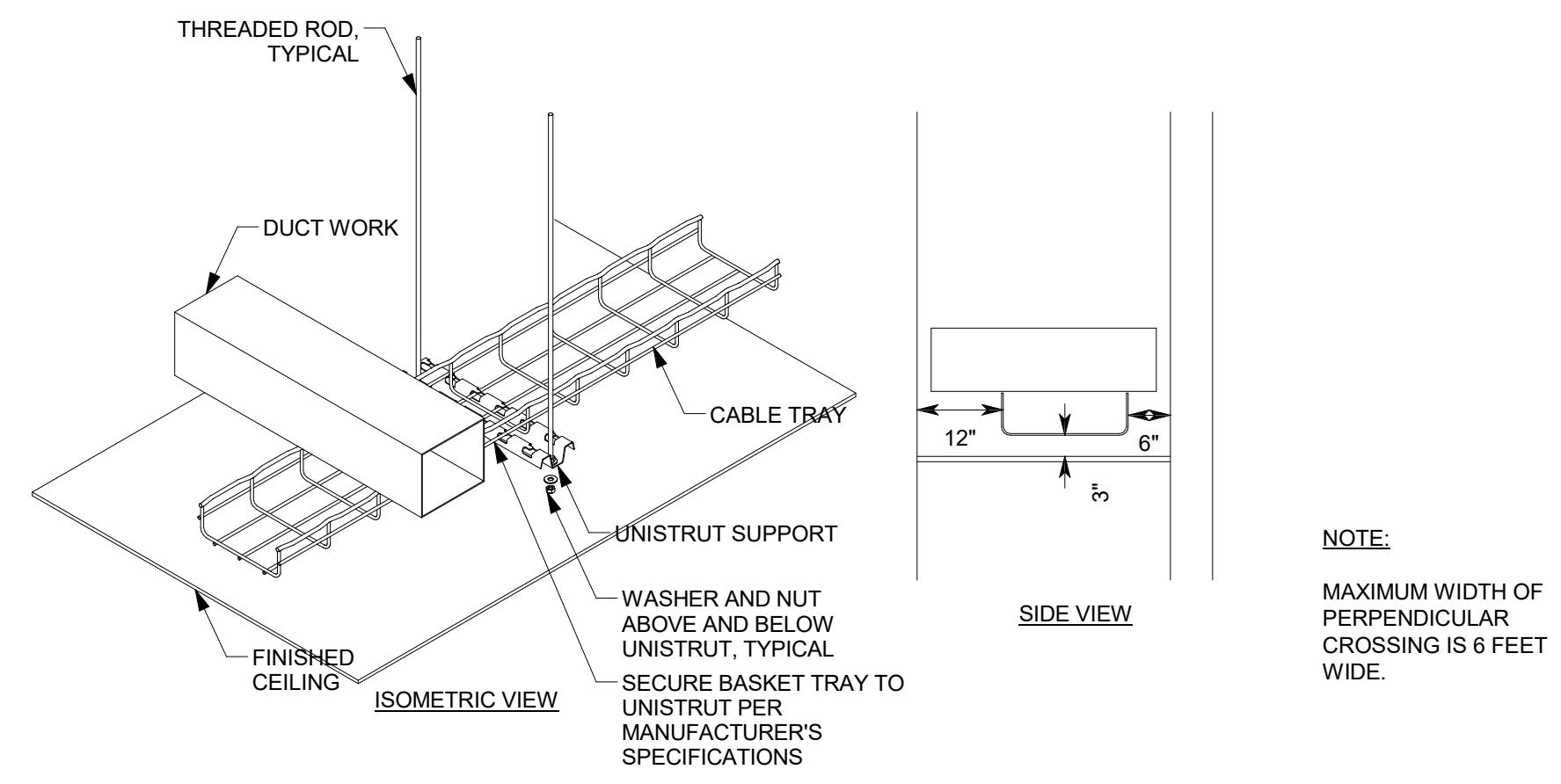
6 CABLE TRAY 90 DEGREE BEND WITH SUPPORTS
NO SCALE



2 CABLE TRAY WITH SUPPORT AT SPLICE POINT
NO SCALE



5 CABLE TRAY INTERSECTION WITH SUPPORTS
NO SCALE



1 TYPICAL CABLE TRAY WITH PERPENDICULAR CROSSING
NO SCALE

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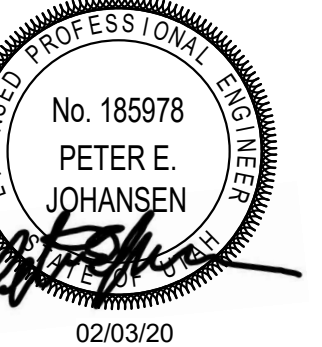
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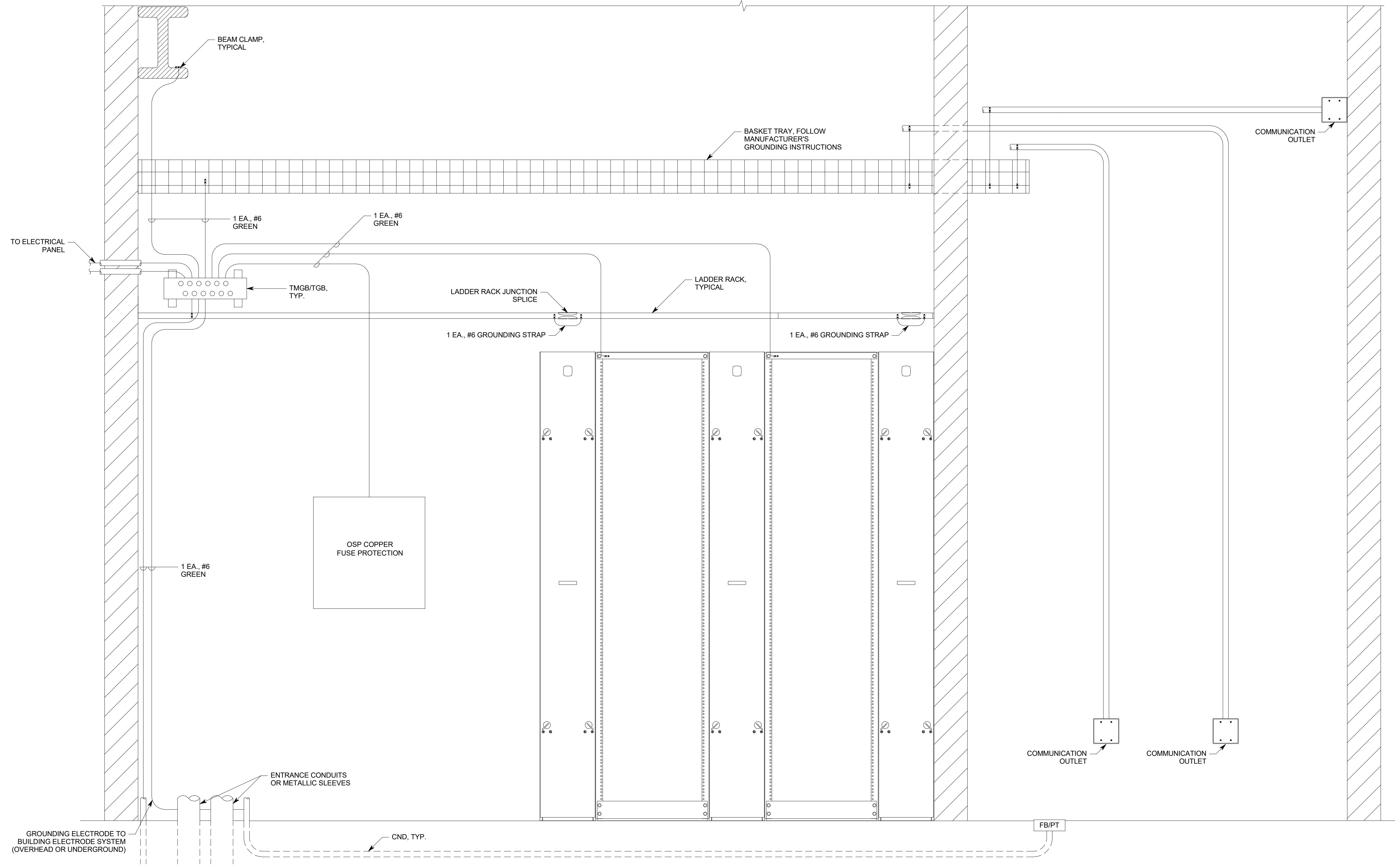
TELECOM
DETAILS

ET503

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- GENERAL NOTES:**
1. ALL LOW VOLTAGE COMMUNICATIONS CONDUIT SHALL BE GROUNDED TO BASKET TRAY OR TELECOMMUNICATIONS GROUNDING BUS BAR.
 2. "TMGB" SHOULD BE 1/4"x4"x24".
 3. "TGB" SHOULD BE 1/4"x2"x24".
 4. EMT CONDUIT GROUNDING CLAMP SHOULD BE ELECTROLYTIC CAST BRONZE. PANDUIT PART NUMBER GPL-"X"-X", OR EQUAL.
 5. RIGID CONDUIT GROUND CLAMP SHOULD BE O-Z/GEDNEY BLG-XXXX, OR HBLG-XXXX, OR EQUAL.
 6. GROUNDING LUGS SHOULD BE TWO HOLE LONG BARREL LUGS. PANDUIT PART NUMBER LCC6, OR EQUAL.



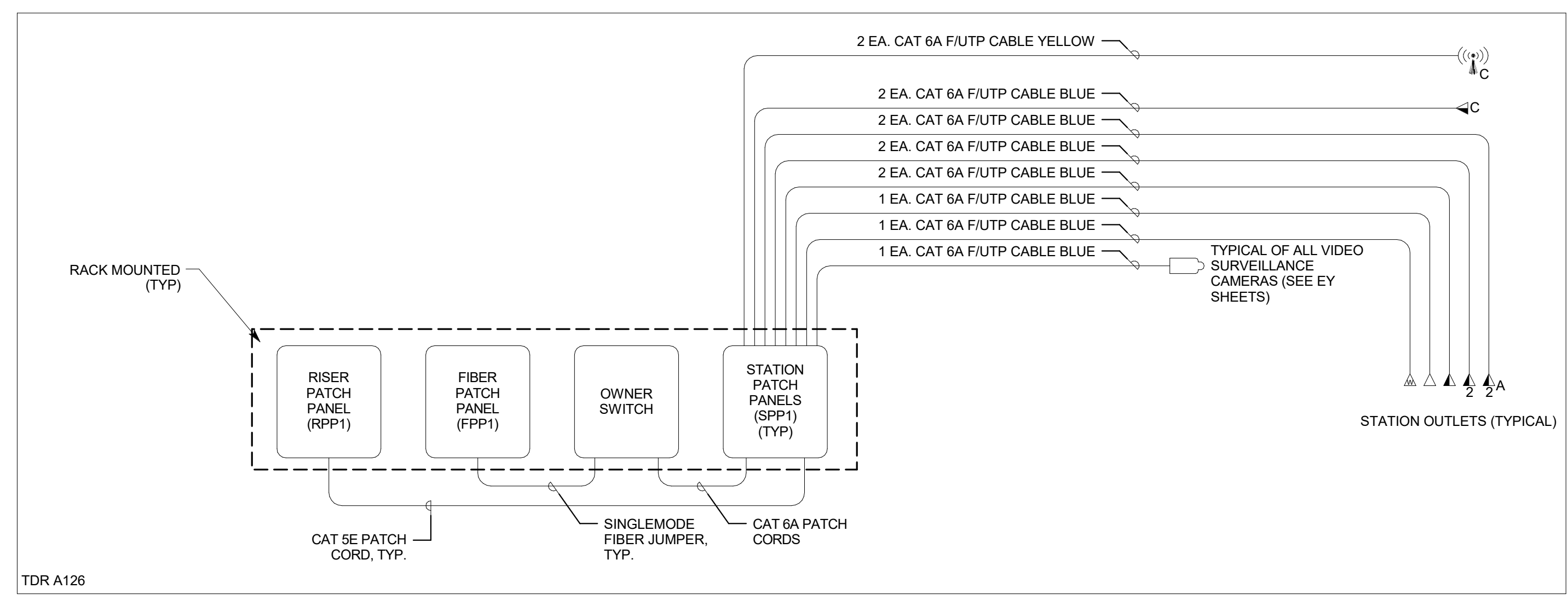
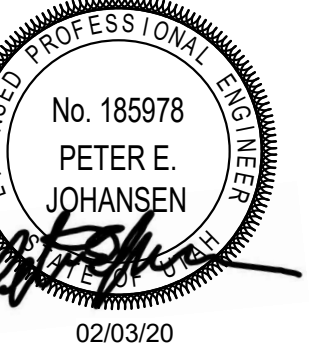
1 TELECOM EQUIPMENT RACK GROUNDING DETAIL
NO SCALE

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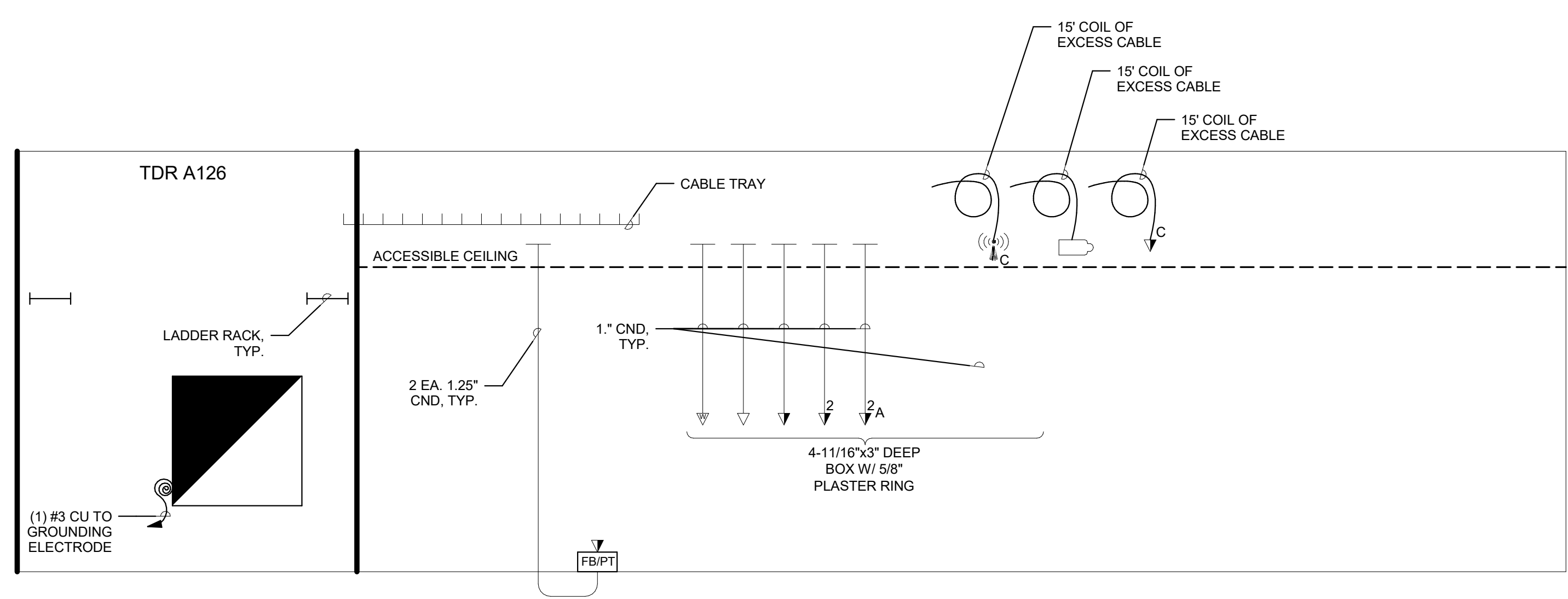
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TELECOM
EQUIPMENT
RACK
GROUNDING
DETAIL
ET504

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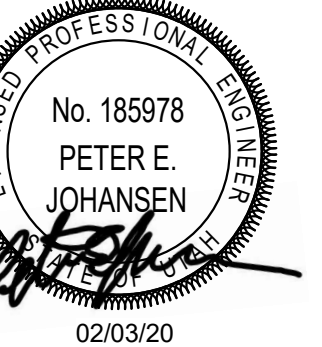


2 TELECOM CABLE RISER DIAGRAM
NO SCALE



1 TELECOM CONDUIT RISER DIAGRAM
NO SCALE

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GENERAL SHEET NOTES

SHEET KEYNOTES

1 PROVIDE NEW 8 DOOR ACCESS CONTROL PANEL.

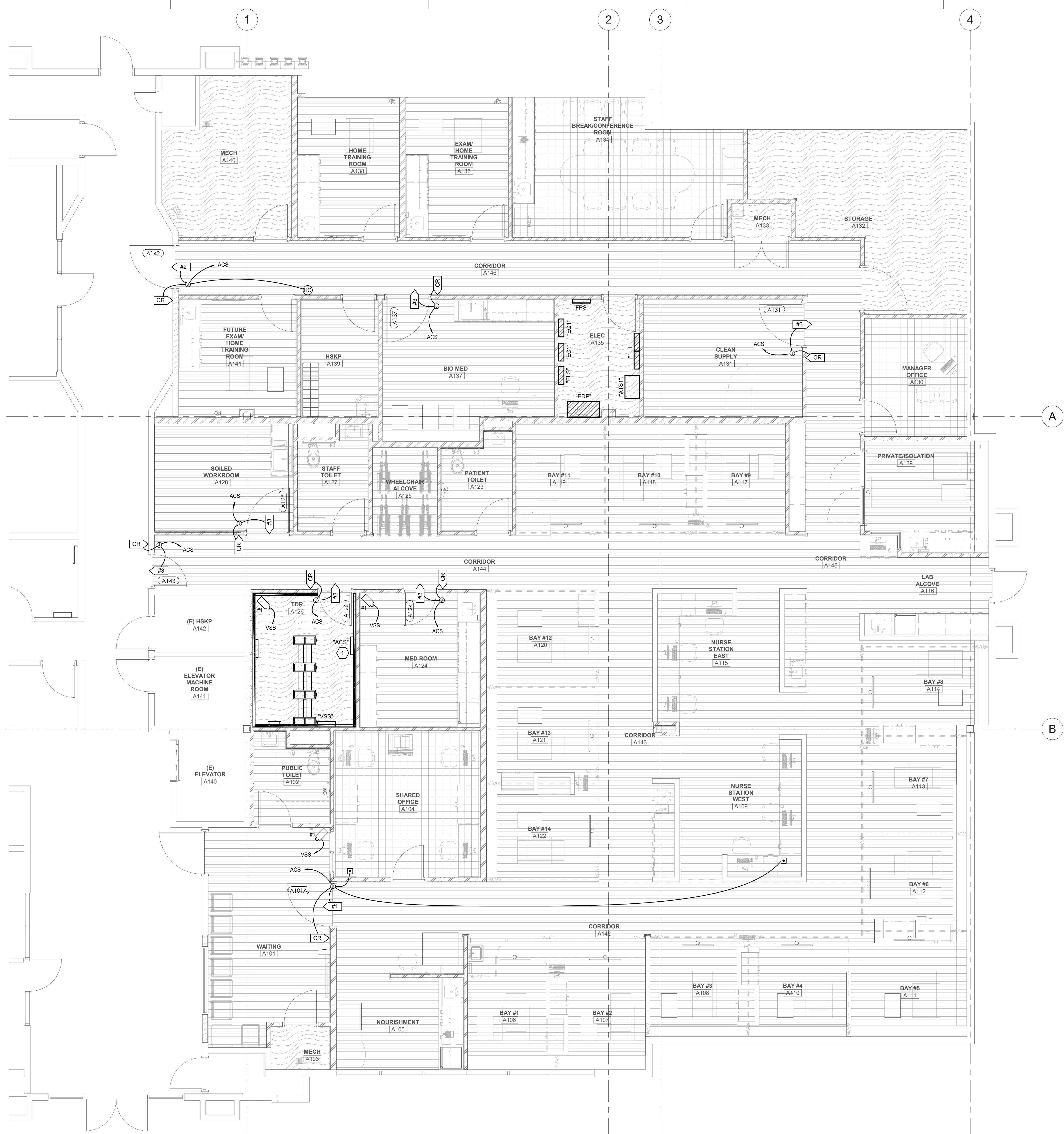
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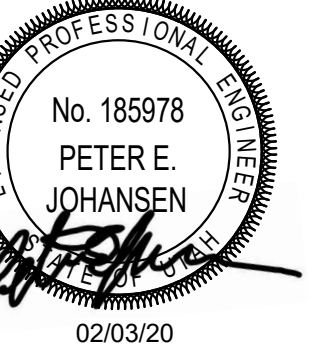
SECURITY PLAN LEVEL 1

EY101



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

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SECURITY EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING *	ROUGH-IN	QTY	ACCEPTABLE TYPES
[CR]	CARD READER	40"	4SQ W/ 1G RING	0FP	SEE SECTION 281300
[CRF]	CARD READER FOR FRIDGE AND/OR FREEZER	40"	4SQ W/ 1G RING	0FP	PROVIDE HID READER WITH HES 660 SERIES LOCKSET
[#1]	CARD ACCESS DOOR TYPE. TYPICAL. REFER TO CARD ACCESS DOOR TYPE SCHEDULE.	SEE SCHEDULE	SEE SCHEDULE	0FP	REFER TO CARD ACCESS DOOR TYPE SCHEDULE & SECTION 281300
[AH]	APERIO HUB (IP)	CEILING	1G BOX	0FP	PROVIDE APERIO HUB MODEL AH-40-IN2-NNNN
[CR]	WIRELESS READER AND LOCKSET FOR MED CABINET	ON CABINET	SURFACE MOUNTED	0FP	PROVIDE HES K100 WIRELESS READER/LOCKSET
[I]	IP INTERCOM WALL STATION	54"	4SQ W/ 1G RING	0FP	PROVIDE AXIS A8004-VE NETWORK VIDEO DOOR STATION
[#1]	VSS CAMERA/ENCLOSURE TYPE. TYPICAL. REFER TO VSS CAMERA/ENCLOSURE TYPE SCHEDULE.	SEE SCHEDULE	SEE SCHEDULE	0FP	SEE VSS CAMERA/ENCLOSURE TYPE SCHEDULE
[P]	PANIC BUTTON	DESK	SURFACE MOUNT	0FP	SEE SECTION 281300
[ACS]	CARD ACCESS CONTROLLERS & PWR SUPPLIES	72"	4"x4" GUTTER & STUBS AIR	A/R	SEE SECTION 281300
[VSS]	VIDEO SURVEILLANCE SYSTEM	RACK MOUNTED			COORDINATE WITH OWNER

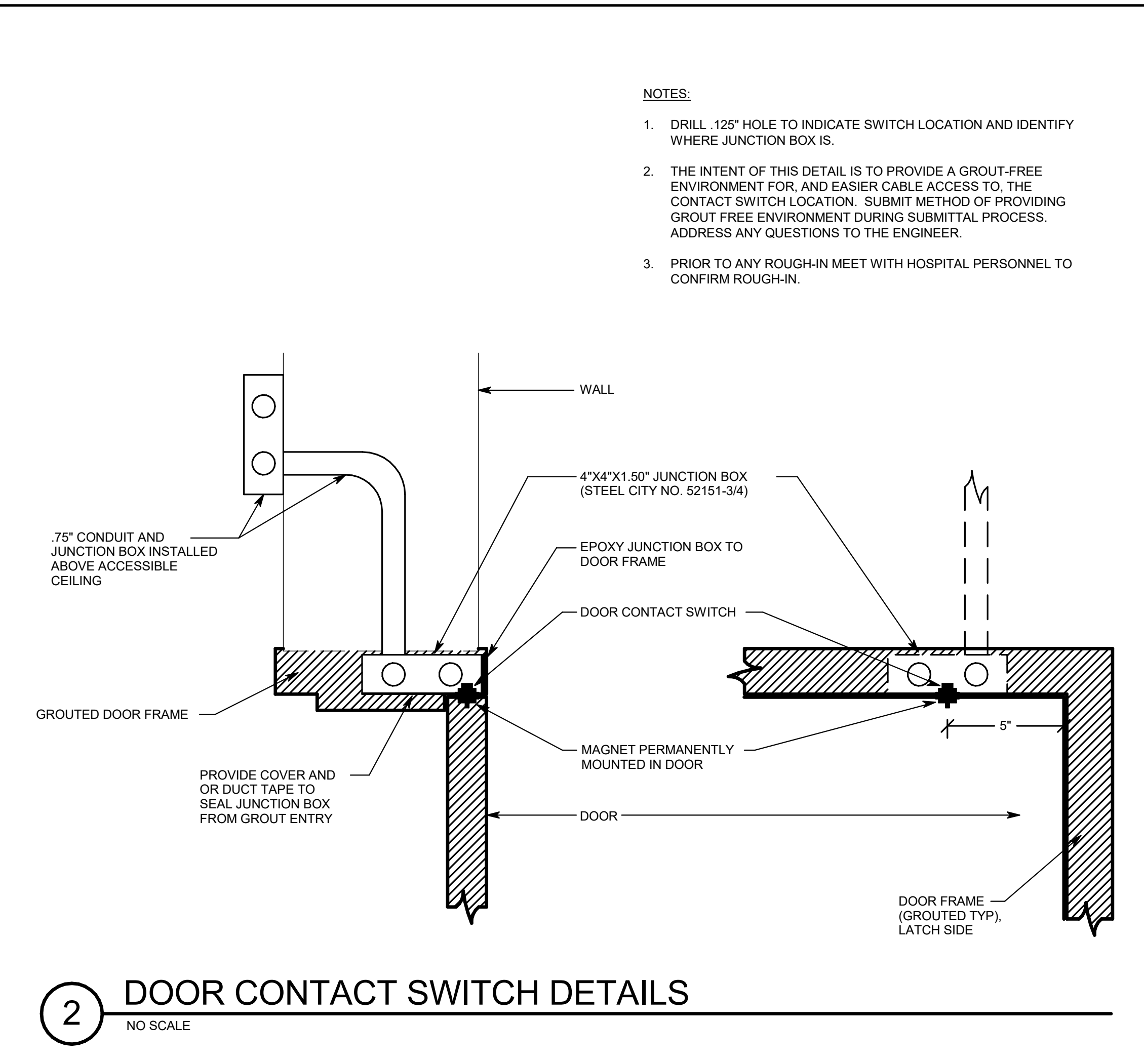
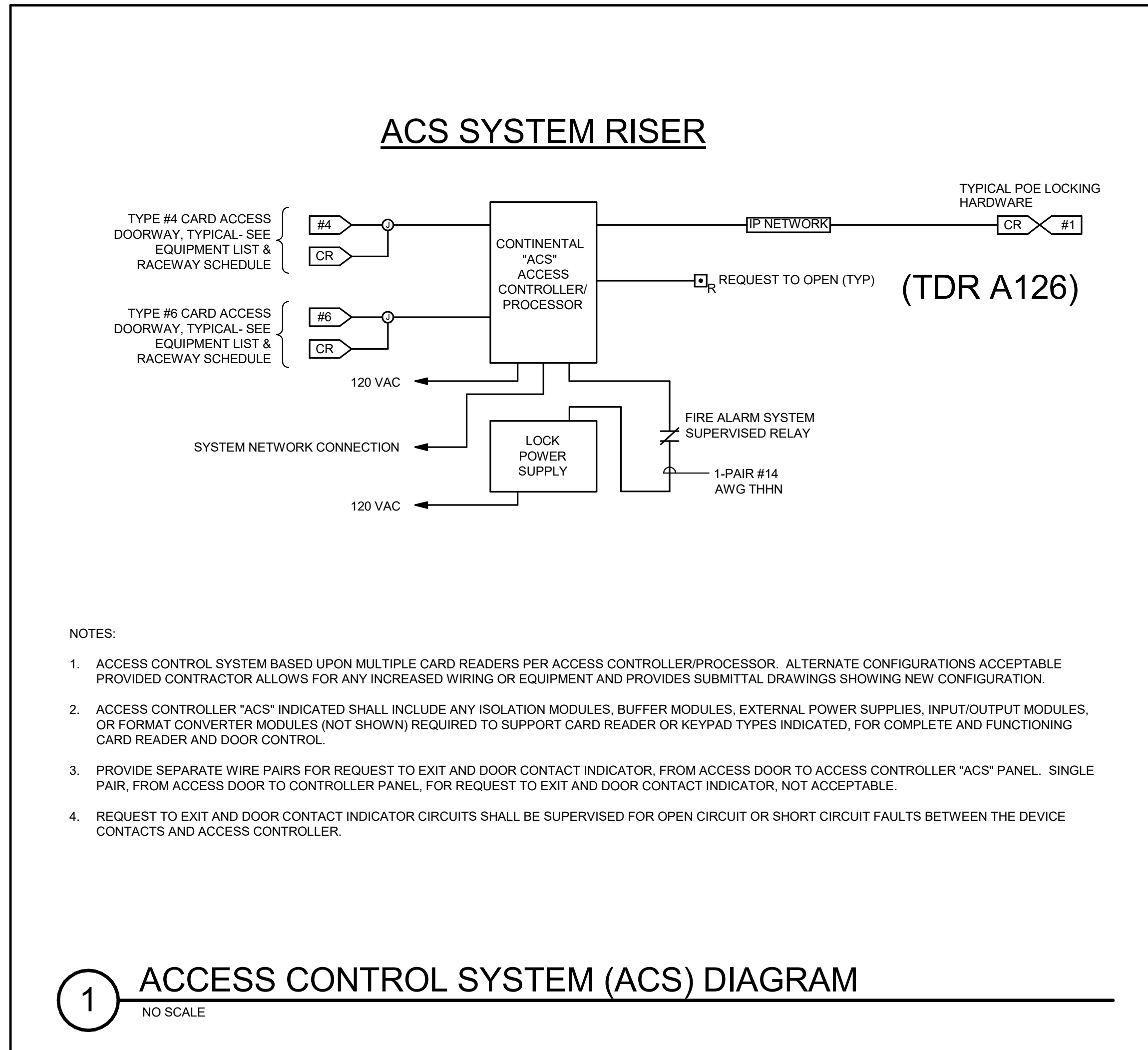
* COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS BEFORE INSTALLATION.

VSS CAMERA ROUGH-IN TYPE SCHEDULE

CAMERA TYPE NUMBER	SYMBOL	DESCRIPTION	INCLUDES
TYPE 1 & TYPE 4	VSS# [E1]	INTERIOR CAMERA (CEILING MOUNTED)	* JUNCTION BOX ABOVE ACCESSIBLE CEILING WITH 1" CONDUIT TO VSS OR NEAREST CABLE TRAY. PROVIDE 1 EACH, CAT 6, PLENUM RATED CABLE PER CAMERA LOCATION, UNLESS OTHERWISE NOTED.
TYPE 2	VSS# [E2]	INTERIOR CAMERA (WALL MOUNTED)	* JUNCTION BOX AT +90" ABOVE FINISHED FLOOR, WITH 1" CONDUIT BACK TO VSS OR NEAREST CABLE TRAY. PROVIDE 1 EACH, CAT 6, PLENUM RATED CABLE PER CAMERA LOCATION, UNLESS OTHERWISE NOTED.
TYPE 3	VSS# [E3]	EXTERIOR CAMERA (WALL MOUNTED)	* JUNCTION BOX AT +138" ABOVE FINISHED FLOOR, WITH 1" CONDUIT BACK TO VSS OR NEAREST CABLE TRAY. PROVIDE 1 EACH, CAT 6, PLENUM RATED CABLE PER CAMERA LOCATION, UNLESS OTHERWISE NOTED.

VSS CAMERA SCHEDULE

TYPE	INTERIOR (INT)/ EXTERIOR (EXT)	DESCRIPTION	AXIS MODEL #
1	INT	FIXED DOME, VARIFOCAAL, CEILING MOUNT	P3374
2	INT	FIXED DOME, VARIFOCAAL, WALL MOUNT	P3374
3	EXT	FIXED DOME, VARIFOCAAL, WALL MOUNT	Q3505-VE
4	INT/EXT	FIXED DOME, CEILING MOUNT (360°)	P3707-PE



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

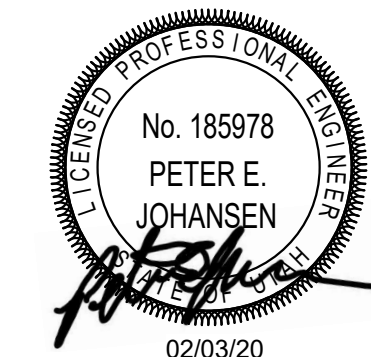
ABBREVIATIONS

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

CARD ACCESS DOOR TYPE SCHEDULE						
DOOR TYPE #	SYMBOL	DESCRIPTION	PROTECTED SIDE ELEVATION	UNPROTECTED SIDE ELEVATION	LOCK TYPE(S)	DIVISION OF WORK AND COMMENTS
TYPE 1		SINGLE DOOR, 1 CARD READER			ELECTRIC LOCKSET	SECURITY CONTRACTOR PROVIDES: <ul style="list-style-type: none"> CR, FH, DH HARDWARE CONTRACTOR PROVIDES: <ul style="list-style-type: none"> EL, EH, LPS, FH, DH LOCK CONTROLLED BY: <ul style="list-style-type: none"> CR
TYPE 2		SINGLE DOOR, 1 CARD READER WITH AUTO OPENER			ELECTRIC STRIKE	SECURITY CONTRACTOR PROVIDES: <ul style="list-style-type: none"> CR, FH, DH HARDWARE CONTRACTOR PROVIDES: <ul style="list-style-type: none"> ES, LPS LOCK CONTROLLED BY: <ul style="list-style-type: none"> CR
TYPE 3		SINGLE DOOR, 1 CARD READER			ELECTRIC LOCKSET	SECURITY CONTRACTOR PROVIDES: <ul style="list-style-type: none"> CR, FH, DH HARDWARE CONTRACTOR PROVIDES: <ul style="list-style-type: none"> EL, EH, LPS, FH, DH LOCK CONTROLLED BY: <ul style="list-style-type: none"> CR



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Tooele Valley Dialysis Clinic Expansion

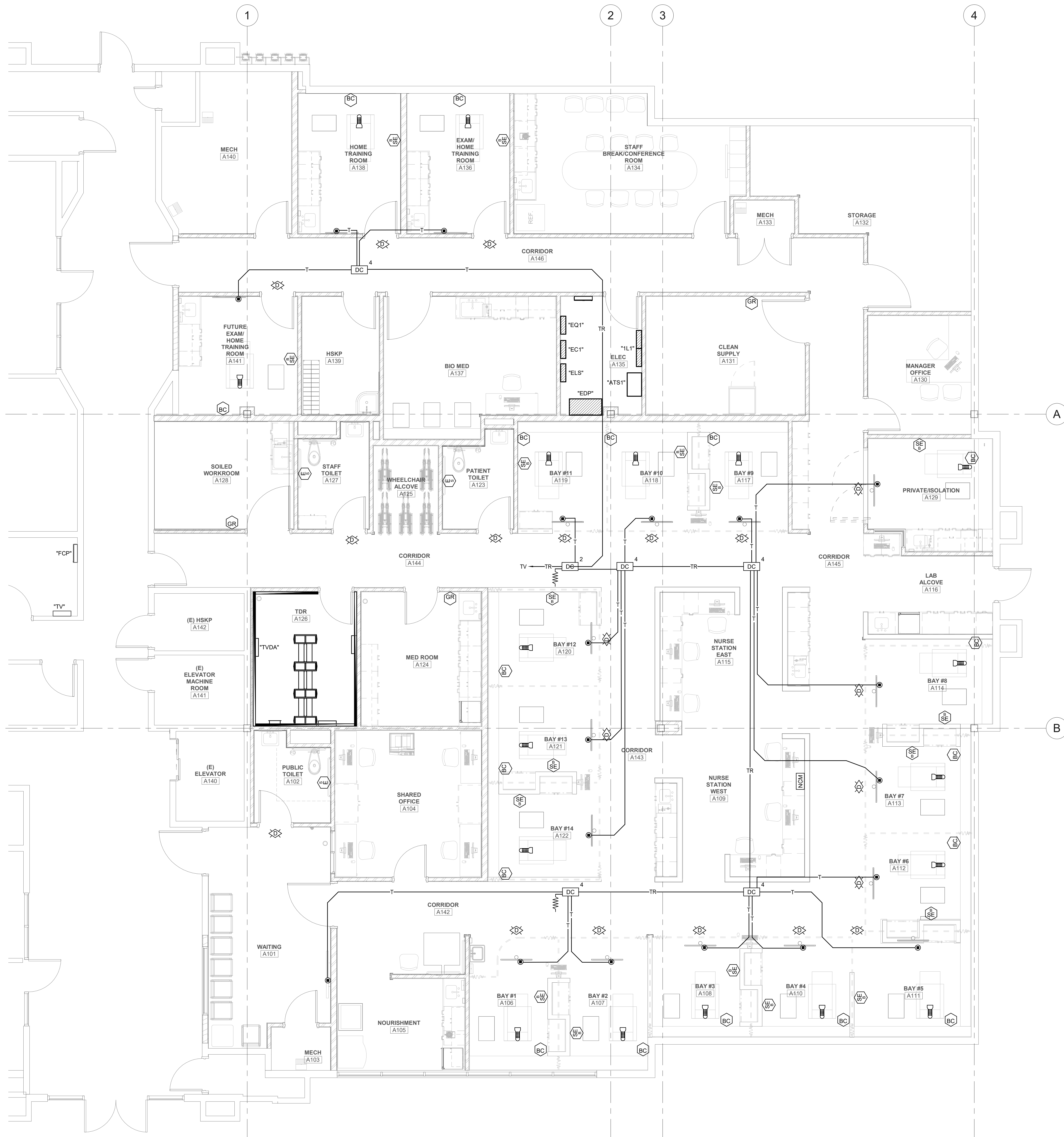
Northpointe Medical Park, Bldg B
 2356 North 400 East, Suite # 102
 Tooele, Utah 84074

NJRA Project # 19230.00
 Construction Documents Feb 03, 2020

SECURITY
 DETAILS &
 DIAGRAM

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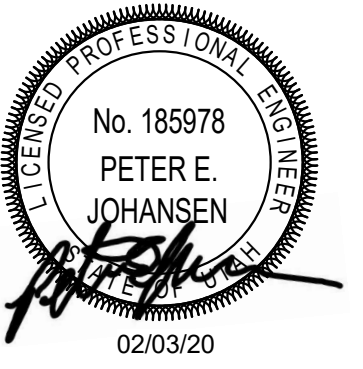
1 SYSTEMS PLAN LEVEL 1
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

SHEET KEYNOTES



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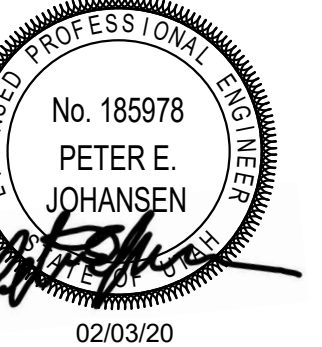
Tooele Valley Dialysis Clinic Expansion

Northpointe Medical Park, Bldg B
2356 North 400 East, Suite # 102
Tooele, Utah 84074

NJRA Project # 19230.00
Construction Documents Feb 03, 2020

**SYSTEMS PLAN
LEVEL 1**

EC101

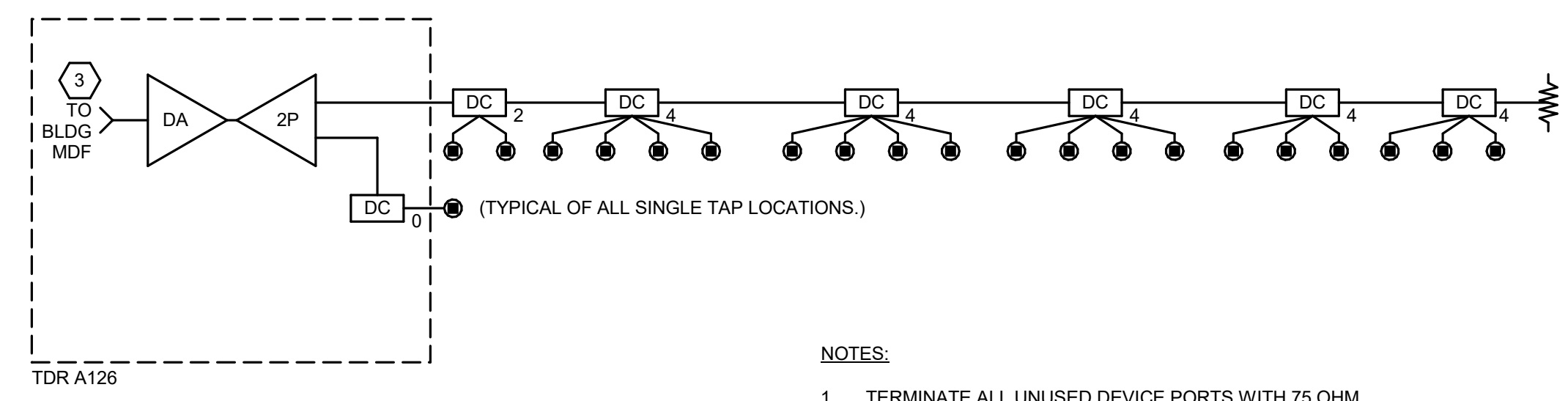


NURSE CALL SYMBOL LIST

SYMBOL	MANUF.	PART #	DESCRIPTION	BACKBOX	BOX MOUNTING HEIGHT
[NCM]	HILL-ROM	P250NNC1B00	STAFF CONSOLE, DESK MOUNT	STEEL CITY 58371 3/4R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[NCM] _W	HILL-ROM	P254NNC3A00	STAFF CONSOLE, WALL MOUNT	STEEL CITY 58371 3/4R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[GA]	HILL-ROM	P254NNC3B00	GRAPHICAL ANNUNCIATOR	STEEL CITY 58371 3/4R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[ASBC]	HILL-ROM	P250NNC1B00	AUDIO STATION BED CONNECTOR (ASBC)	GARVIN 52181-3/4 WITH GARVIN 52C13 RING, OR ANY OTHER 4" SQUARE 3.5" DEEP BACK BOX WITH SINGLE GANG MUD RING.	REFER TO ELEVATION DRAWINGS
[EQ]	HILL-ROM	P2516A01	EQUIPMENT RECEPTACLE, WITH CALL CORD	STEEL CITY 58371 3/4R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[LED]	HILL-ROM	P2506NNC1B00	LED LIGHT, SINGLE LED	RACO 231, WITH RACO 778 RING, OR ANY OTHER 4" SQUARE 2 1/8" DEEP BACK BOX.	REFER TO ELEVATION DRAWINGS
[LED]	HILL-ROM	P2506NNC8A00-D	ICON BASED-LIGHT LED DOME LIGHT	STEEL CITY CYLE-3/4, RACO 591, OR ANY OTHER 3.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[LED]	HILL-ROM	P2506NNC8A00-7	ICON BASED-LIGHT LED ZONE LIGHT	STEEL CITY CYLE-3/4, RACO 591, OR ANY OTHER 3.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[POE-24]	HILL-ROM	P2519NNC1A24	POE SWITCH		REFER TO ELEVATION DRAWINGS
[PB]	HILL-ROM	P2520A07	CODE BLUE PUSH BUTTON SWITCH	RACO 561 BACK BOX.	REFER TO ELEVATION DRAWINGS
[PB]	HILL-ROM	P2520A07	CODE PINK PUSH BUTTON SWITCH	RACO 561 BACK BOX.	REFER TO ELEVATION DRAWINGS
[PB]	HILL-ROM	P2520A07	PUSH FOR ASSISTANCE PUSH BUTTON SWITCH	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[PB]	HILL-ROM	P2520A08	STAFF EMERGENCY PUSH BUTTON SWITCH	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[S]	HILL-ROM	P2520B01	BATH SWITCH, W/CANCEL, SUPERVISED	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[S]	HILL-ROM	P2520B02	BATH SWITCH, W/O CANCEL, SUPERVISED	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[UPS, APC Mount Non-34mm]	HILL-ROM	P2521B02	UPS, RACK MOUNTABLE, 2U - NON-SEISMIC		REFER TO ELEVATION DRAWINGS
[STN]	HILL-ROM	P254NNC1B01	STAFF STATION - STANDARD ROOM STATION W/ CODE	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[STN]	HILL-ROM	P254NNC1B01	STAFF STATION - STANDARD ROOM STATION W/O CODE	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[GRS]	HILL-ROM	P254NNC2C00	GRAPHICAL ROOM STATION (GRS) - STAFF	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[GRS]	HILL-ROM	P254NNC2C11	GRAPHICAL ROOM STATION (GRS) - PATIENT	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[RAC]	HILL-ROM	P254NNC4A10	REMOTE AUDIO DEVICE	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[RCB]	HILL-ROM	P259NNC2A00	RCB2 ROOM CONTROL BOARD	STEEL CITY GW-235G, RACO 696 OR ANY OTHER 3.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[RTLS]	HILL-ROM	RTLS-CLOSED	RTLS - STAFF LOCATING LOCATION-CLOSED AREA	STEEL CITY GW-225G, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[RTLS]	HILL-ROM	RTLS-OPEN	RTLS - STAFF LOCATING LOCATION-GLASS/OPEN AREA	STEEL CITY GW-225G, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[RTLS]	HILL-ROM	RTLS-BAY	RTLS - STAFF LOCATING LOCATION-BAY	STEEL CITY GW-225G, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
[PIL]	HILL-ROM		PILLOW SPEAKER, REQUIRES ASBC.		
[R]	CURBELL	MAP985A	REMOTE ENTERTAINMENT STATION	STEEL CITY GW-225C, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ELEVATION DRAWINGS

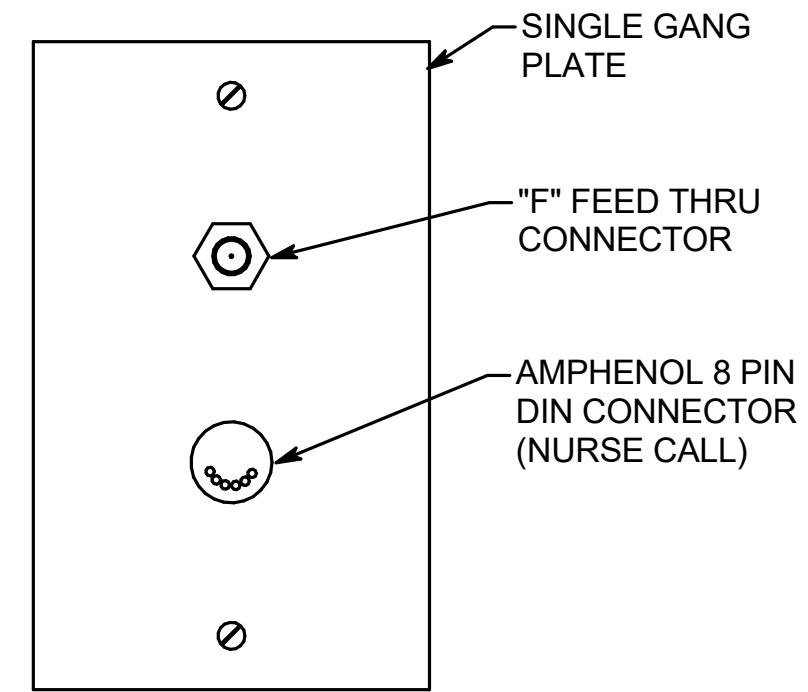
TV DISTRIBUTION EQUIPMENT LIST

SYMBOL	DESCRIPTION	QTY	ACCEPTABLE TYPES
[4P]	MULTI-PORT SPLITTER	0FP	2-PORT BLONDER TONGUE SXRS-2 4-PORT BLONDER TONGUE SXRS-4
[DA]	BROADBAND AMPLIFIER	0FP	BLONDER TONGUE MUVB-25
[DC] X	DIRECTIONAL COUPLER (X = NUMBER OF PORTS)	0FP	BLONDER TONGUE SRT-4A, SRT-2A
[WTP]	WALL TAP PLATE	0FP	BLONDER TONGUE VERSATAP SERIES MODEL V-1GF-FT W/ COVER PLATE
[75]	RF TERMINATOR	A/R	75 OHM TERMINATOR
[C]	COAXIAL CABLE, HORIZONTAL DROP	A/R	RG-6 (SEE SPECIFICATIONS)
[TR]	COAXIAL CABLE, TRUNK	A/R	RG-11 (SEE SPECIFICATIONS)



- NOTES:
1. TERMINATE ALL UNUSED DEVICE PORTS WITH 75 OHM TERMINATING CONNECTORS.
 2. ALL TV OUTLET JACKS SHALL PROVIDE AT LEAST +2dBmV OF VIDEO SIGNAL.
 3. PROVIDE A SIGNAL GREATER THAN OR EQUAL TO 25dbm.

1 TV DISTRIBUTION SYSTEM DIAGRAM
NO SCALE

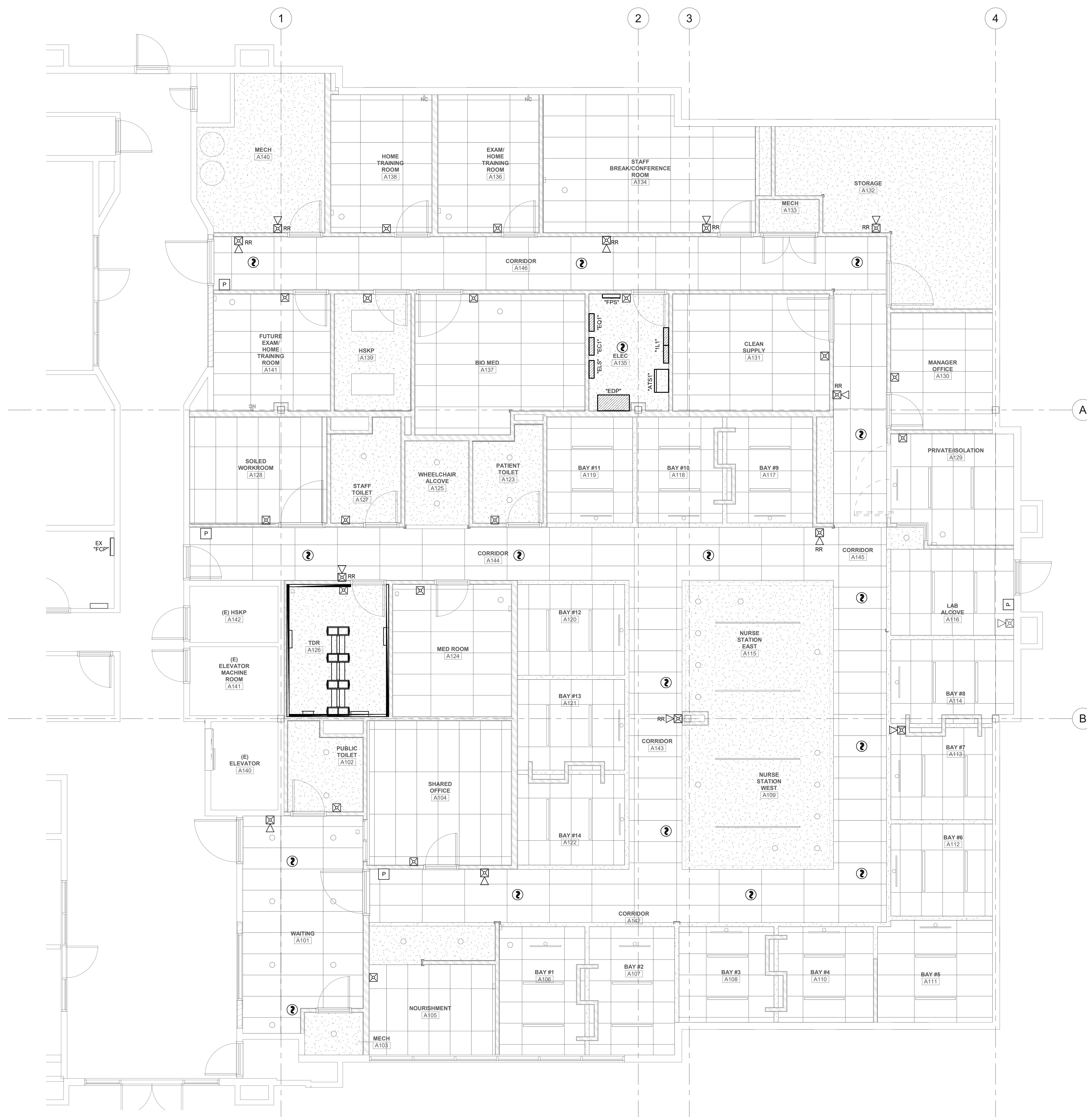


- NOTES:
1. PROVIDE AMPHENOL CONNECTOR ON TV PLATES IN PATIENT ROOMS. NON-PATIENT LOCATIONS HAVE THE 'F' CONNECTOR ONLY. CABLE TERMINATION TO AMPHENOL CONNECTOR WILL BE BY NURSE CALL INSTALLER.

2 TV OUTLET PLATE DETAIL
NO SCALE

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

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**FIRE ALARM
PLAN LEVEL 1**

FA101