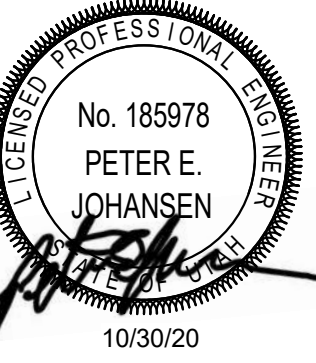


**SHEET KEYNOTES**

- 1 PROVIDE THE FOLLOWING TO EQUIPMENT ROOM: FOUR EMERGENCY ISOLATED 120 VOLT CIRCUITS, FOUR DATA DROPS, AND 120 VOLT CRITICAL BRANCH CIRCUIT OFR BREAKS AND BOOM MOTOR.
- 2 PROVIDE THE FOLLOWING TO ANESTHESIA BOOM: THREE ISOLATED 120 VOLT CIRCUITS, FROM CRITICAL BRANCH #1, AND THREE ISOLATED 20 AMP CIRCUITS FROM CRITICAL BRANCH #2 AND SIX DATA DROPS. SEE STERIS DRAWINGS FOR ADDITIONAL CONTRACTOR INSTALLATION RESPONSIBILITIES. ALSO PROVIDE 120 VOLT CRITICAL BRANCH POWER FOR BREAKS AND BOOM MOTOR.
- 3 POWER FOR ELAPSED TIME AND CURRENT TIME DIGITAL CLOCKS. RESET BUTTON WILL MOUNT BELOW AT NURSE CHART STATION.
- 4 PROVIDE 120 VOLT POWER TO MONITOR/LIGHT BOOM LSD01. SEE STERIS DRAWINGS FOR ADDITIONAL CONTRACTOR INSTALLATION RESPONSIBILITIES AUDIO/VIDEO CONNECTIONS, AC LINE VOLTAGE AND DC CONNECTION AND COMMUNICATION CABLING.
- 5 120 VOLT POWER SUPPLY FOR OR ROOM SURGICAL LIGHT. RUN LOW VOLTAGE CABLING TO CONTROL PANEL, AND TO STERIS LIGHTING BOOM. SEE STERIS DRAWINGS FOR INSTALLATION INSTRUCTIONS.
- 6 L6 30R LASER RECEPTACLE. CIRCUIT TO EXISTING LASER ISOLATION PANEL (XRY2) IN OR#1. PROVIDE REMOTE MONITOR WITH RECEPTACLE.
- 7 PROVIDE FOUR DATA JACKS ABOVE CEILING ADJACENT TO T1 J-BOX.
- 8 SURGICAL LIGHTING CONTROL PANELS. RUN LOW VOLTAGE CABLING TO POWER SUPPLY. SEE STERIS DRAWINGS.
- 9 PROVIDE DATA RECEPTACLE IN CEILING FOR STATUS CAMERA IN EACH OR ROOM.
- 10 RECEPTACLE LOCATED INSIDE PULL BOX V1.
- 11 POWER AND AV CONNECTION FOR WALL MOUNT MONITOR.

**GENERAL SHEET NOTES**



20320  
OCT. 30 2020

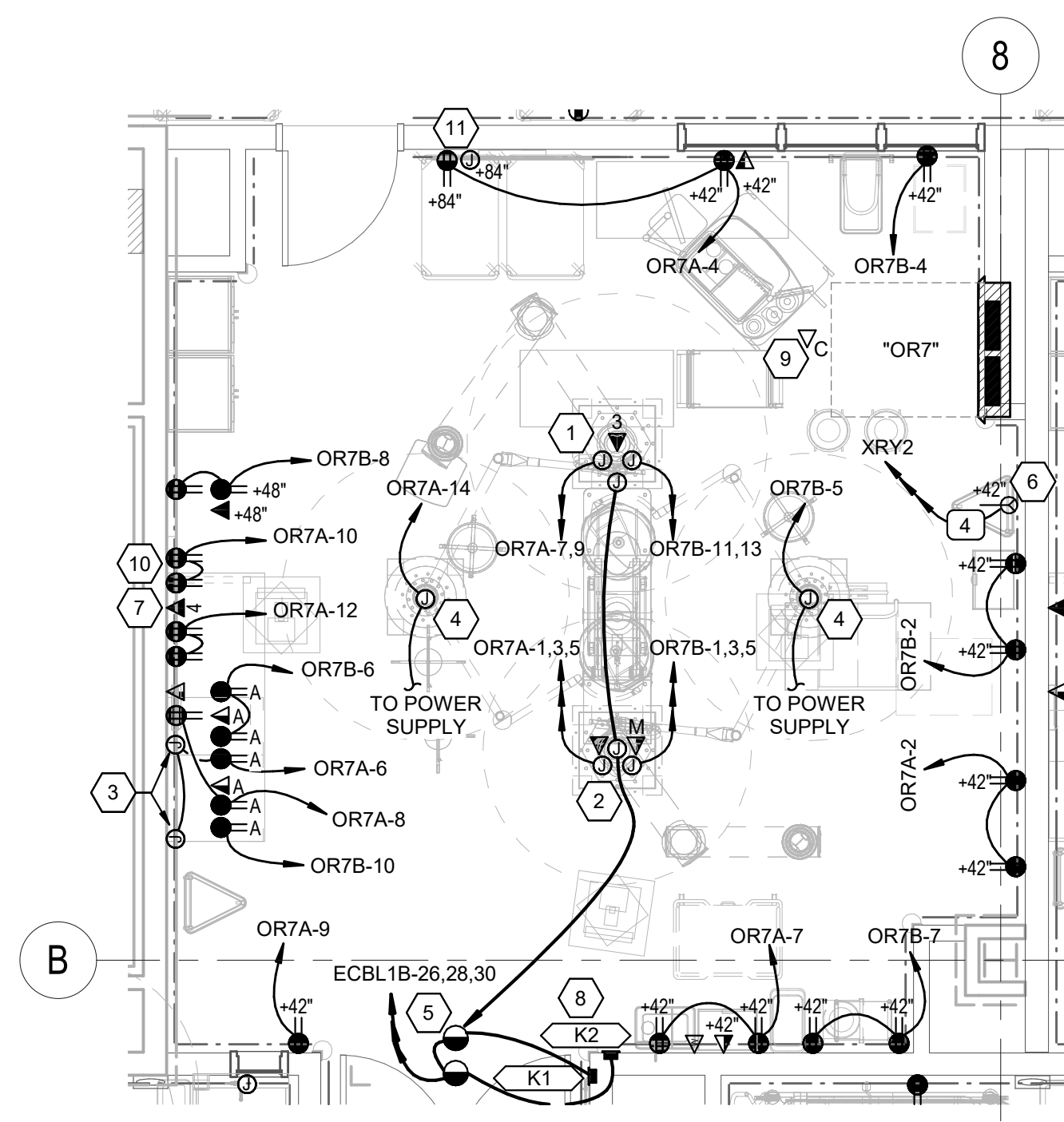
**MCKAY-DEE AMBULATORY SURGERY CENTER EXPANSION**

INTERMOUNTAIN HEALTHCARE  
3895 MEDICAL DRIVE, OGDEN, UTAH 84403

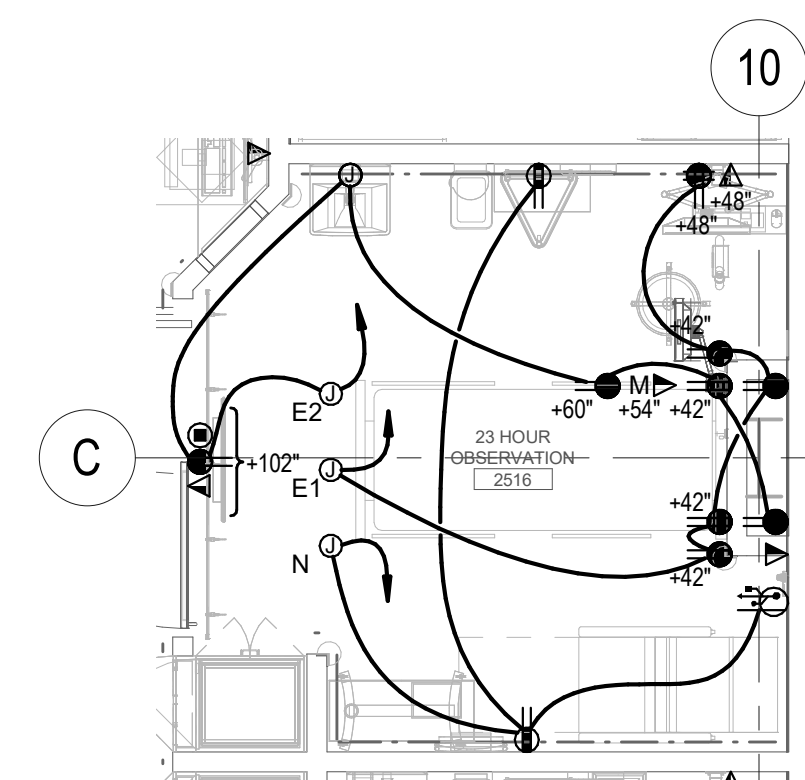
CONSTRUCTION DOCUMENTS

ENLARGED / TYPICAL  
POWER PLANS

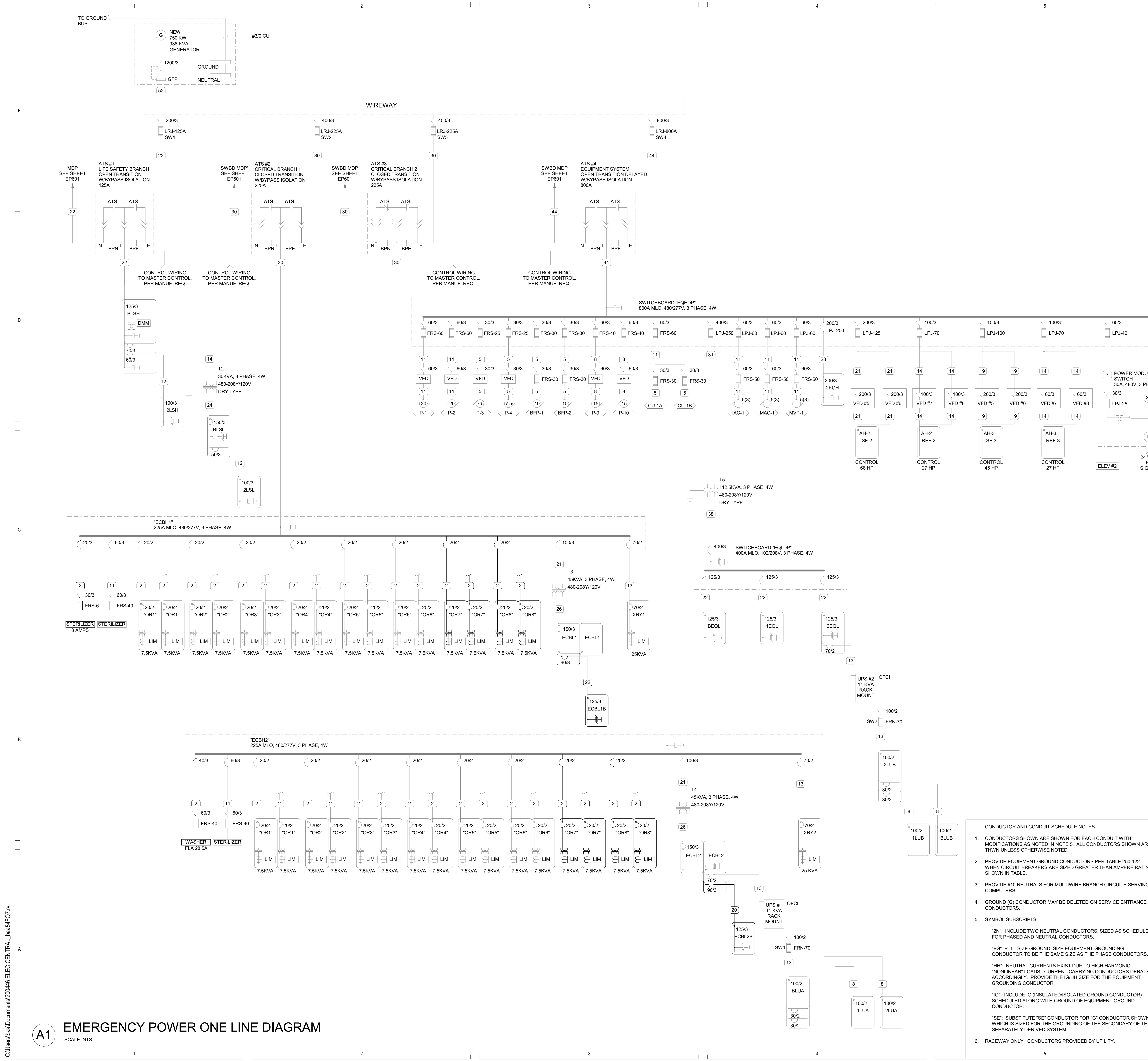
**EP401**



**A1 ENLARGED OR POWER PLAN**  
SCALE: 1/4" = 1'-0"



**A2 ENLARGED OBSERVATION ROOM  
POWER PLAN**  
SCALE: 1/4" = 1'-0"



**GENERAL SHEET NOTES**

- ALL TRANSFORMERS WILL BE GROUNDED TO GROUND BUS IN ELEC 0110.

**SHEET KEYNOTES**

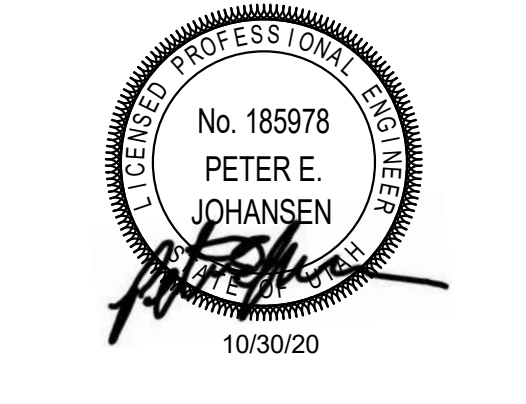
Blank area for sheet keynotes.

**COPPER CONDUCTOR AND CONDUIT SCHEDULE**

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

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

**A1 EMERGENCY POWER ONE LINE DIAGRAM**  
SCALE: NTS



REV	DATE	DESCRIPTION

VCBO NUMBER: 20230  
CLIENT NUMBER:  
DATE: OCT. 30. 2020

**MCKAY-DEE AMBULATORY SURGERY CENTER EXPANSION**  
INTERMOUNTAIN HEALTHCARE  
3895 MEDICAL DRIVE, OGDEN, UTAH 84403  
CONSTRUCTION DOCUMENTS

ONE-LINE DIAGRAM  
**EP601**

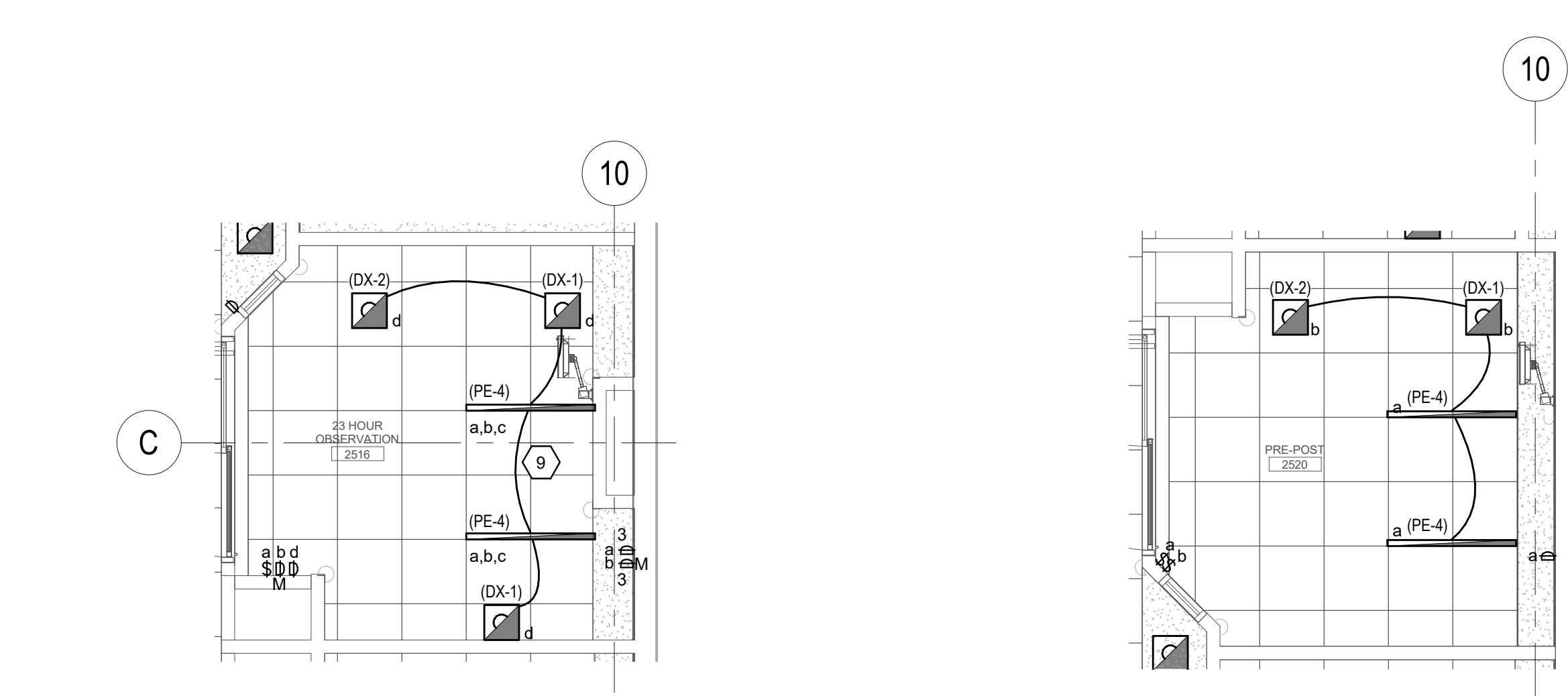


REV	DATE	DESCRIPTION

VCBO NUMBER: 20020  
CLIENT NUMBER:  
DATE: OCT. 30 2020

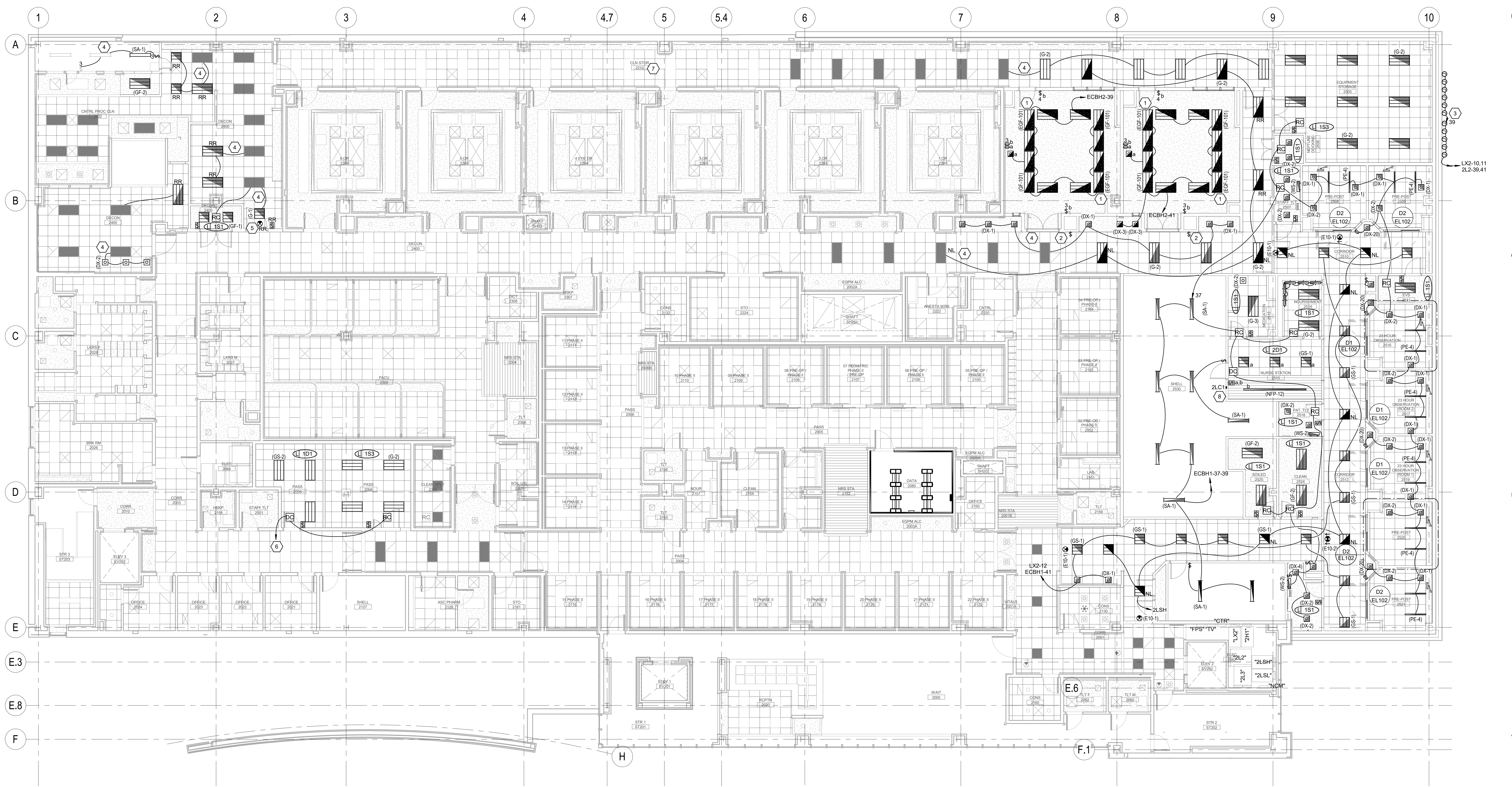
- ### SHEET KEYNOTES
- 1 PROVIDE EMERGENCY BATTERY PACK IN TWO GF-101 SURGERY FIXTURES.
  - 2 PROVIDE KEYED SWITCH AT 70" A.F.F. OUTSIDE EACH OR ROOM FOR TESTING BATTERY PACK IN EGF101-FIXTURES.
  - 3 RELOCATE 120V POWER TO EACH LETTER IN EXTERIOR SIGN. TOTAL NUMBER OF J-BOXES MUST BE COORDINATED WITH SIGN MANUFACTURER DRAWINGS. SIGN ON SOUTH FACE OF BUILDING WILL REQUIRE TWO 20 AMP CIRCUITS. EXTEND CIRCUITS FROM LIGHTING CONTROL PANEL TO NEW SIGN LOCATION.
  - 4 CIRCUIT TO EXISTING LIGHTING CIRCUIT AND CONTROLS FEEDING THIS AREA.
  - 5 RE-CIRCUIT EXIT SIGN TO EXISTING LIFE SAFETY CIRCUIT FEEDING EXIT SIGNS.
  - 6 CIRCUIT NEW FIXTURES AND NEW CONTROLS TO EXISTING CIRCUIT THAT PREVIOUSLY FED THIS AREA.
  - 7
  - 8 LIGHTING CONTROL OVERRIDE SWITCH FOR PATIENT CORRIDOR FIXTURES. RUN BACK TO EXISTING LEVITON GREEN MAX LIGHTING CONTROL PANEL, LX2 IN ELECTRICAL 20182. PROVIDE NEW RELAY. PROVIDE DIMMING CONTROL AT NURSE STATION.
  - 9 THREE-IN-ONE PATIENT LIGHT FIXTURES (PE-4). EXAM LIGHT (A) WILL BE CONTROLLED AT THE DOOR AND HEADWALL (DIMMING AT HEADWALL). AMBIENT LIGHT (B) WILL BE CONTROLLED BY MOMENTARY DIMMING SWITCHES AT DOOR, HEADWALL AND VIA NURSE CALL SPEAKER. READING LIGHT (C) WILL BE CONTROLLED VIA PILLOW SPEAKER. PROVIDE LOW VOLTAGE CONTROLLER TO CONNECT TO NURSE CALL PILLOW SPEAKER.

### GENERAL SHEET NOTES



**D1** TYPICAL OBSERVATION LIGHTING CONTROLS  
SCALE: 1/4" = 1'-0"

**D2** TYPICAL PRE-POST LIGHTING CONTROLS  
SCALE: 1/4" = 1'-0"



**A1** LIGHTING PLAN - LEVEL 02  
SCALE: 1/8" = 1'-0"

# INTERIOR LIGHTING FIXTURE SCHEDULE

## ABBREVIATIONS

### MOUNTING

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

### LUMINAIRE OPTIONS

ARHR - AIR RETURN AND HEAT REJECTION  
DL - DAMP LOCATION  
ECC - EARTHQUAKE CLIPS  
F - FUSING  
HLD - HINGED AND LATCHED DOOR  
HS - HOUSE SIDE SHIELD  
PS - PHOTOCELL SWITCH  
QRS - QUARTZ RESTRIKE  
ST - STATIC  
WGL - 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  
#DA - ACRYLIC #THICK (OPAL)  
GC - GLASS (CLEAR)  
GO - GLASS (OPAL)  
GF - GLASS (FROSTED)  
SGL - SOFT GLOW LENS  
HPL - HIGH PERFORMANCE LENS  
DO - DROP OPAL  
COL - CONVEX GLASS LENS  
S - SATIN LENS

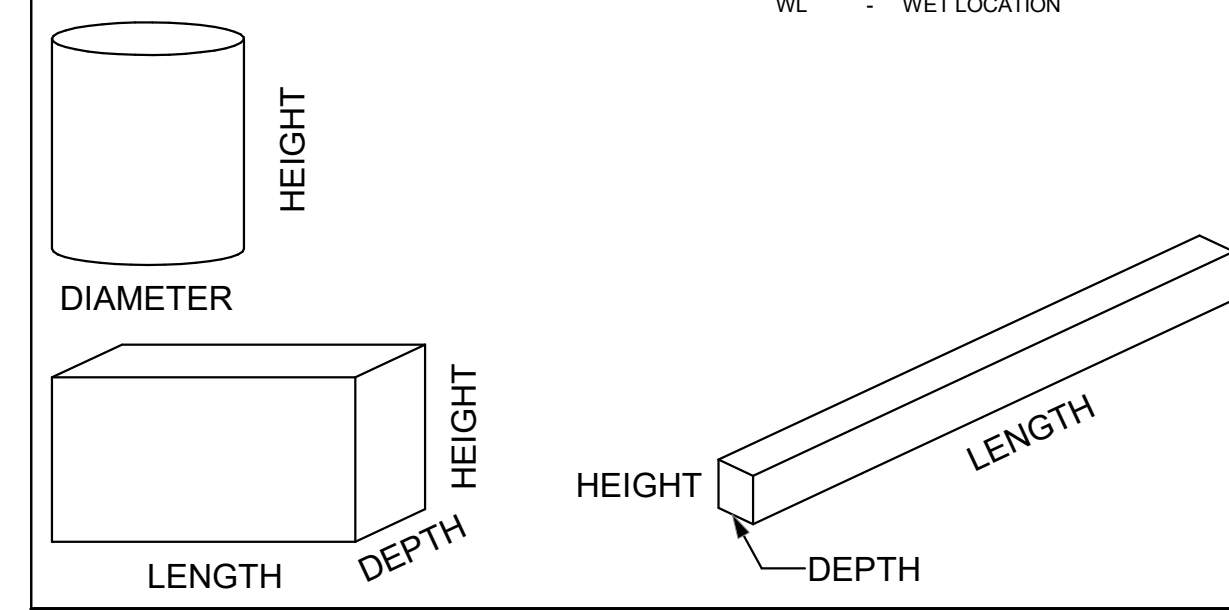
### REFLECTOR

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 RIDGESCENT  
IR - IRIDESCENT  
SL - SILVER  
GL - GOLD  
CA - CLEAR ALZAK

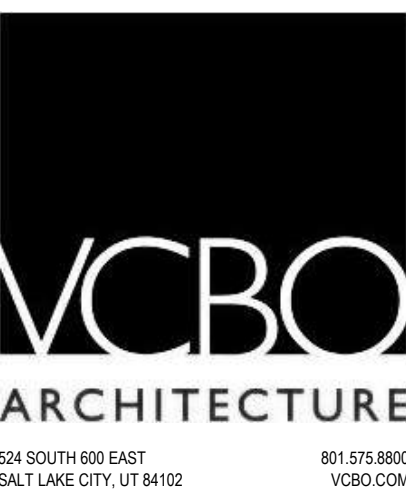
### NOTES

## GENERAL NOTES

- 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	FIGURE 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-TWR)	LITON (LHALD612034UE-D10/ RALD6SWF160-860-T35)	PORTFOLIO (LD68150010EUB810208 0356LBW2H HB26)
(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-TWR)	LITON (LHALD625C071-D10/ LRALD6SWF151-860-T35)	PORTFOLIO (LD6820010EUB810208 0356LBW2H HB26)
(DX-3)	6" ROUND, RECESSED LED DOWNLIGHT, SEMI-SPECULAR REFLECTOR, WHITE TRIM FINISH	-	-	-	0' - 6"	CR	LED	3500K		0-10V DIMMING (10%)	120/277	42	-	3500						GOTHAM (EVO-3535-6AR-WD-LSS-MVOLT-EZ10-TWR)	LITON (LHALD640C105UE-D10/ RALD6SWF350-860-T35)	PORTFOLIO (LD6840010EUB830508 0356LBW2H HB26)
(DX-4)	6" ROUND, RECESSED LED SHOWER DOWNLIGHT, LENSED, WHITE TRIM FINISH	-	-	-	0' - 6"	CR	LED	3500K		0-10V DIMMING (10%)	120/277	19	-	1500						GOTHAM (EVO-3515-6DFR-MVOLT-EZ10-TWR)	HALO (PD61500109PDM68835/ 64VDFWC)	INTENSE (SS6G3DR-L4-358-IC632-C-SF-CR)
(DX-20)	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-TWR)	LITON (LHALD625C071-D10/ LRALD6SWF151-860-T35)	PORTFOLIO (LD6820010EUB810208 0356LBW2H HB26)
(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)
(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)		
(G-3)	2' X 4' LED FLAT PANEL, GRID LAY-IN	4' - 0"	2' - 0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	60	-	6700						VIVIDLEDS (VVDES2461-35-V27-WH-D1)		
(GF-1)	2' X 2' LED FLAT PANEL, GRID LAY-IN, PROVIDE FLANGE KIT	2' - 0"	2' - 0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	40	-	3400			FLANGE KIT			VIVIDLEDS (VVDES2240-35-UNV-WH-D1)		
(GS-1)	2' X 2' LED TROFFER, EDGE LIT PANELS, GRID LAY-IN	2' - 0"	2' - 0"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	29	-	3400						METALUX (22EN-LD2-25-UNV-L835-C-D1-U)	LEDALITE (4111-D1-ST-L-8B-D-S-7-2-E)	
(GS-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)	
(NFP-12)	4" X 12" LINEAR DIRECT PENDANT, AIRCRAFT CABLE MOUNTED TO DECK, HUNG TO BE FLUSH WITH THE WOOD SLAT CEILING, CUSTOM LENGTH TO BE ABOUT 18" FROM CEILING TRANSITION OR HEADER AND 24" FROM WALLS, FIXTURE TO PROVIDE CUSTOM LENGTHS WITHIN 3" INCREMENTS, LENGTHS ARE CALLED OUT TO BE CLOSEST DIMENSION, CONTRACTOR TO FIELD VERIFY LENGTHS PRIOR TO ORDERING	12' - 0"	0' - 3"	-	-	CP	LED	3500K		0-10V DIMMING (1%)		150	WH	12500						PINNACLE (E4A-835-12-GX-U-OL1-1-W)		
(PE-4)	4" X 4" LAY IN GRID MOUNT, ASYMMETRIC OPTICS, AMBIENT, READING AND EXAM COMBO LIGHT, INGRESS DOOR, ANTIMICROBIAL FINISH ON ALL EXPOSED SURFACES, 3000 LUMENS AMBIENT, 5200 LUMENS EXAM, 950 LUMENS READING	4' - 0"	0' - 4"	-	-	CR	LED	3500K		0-10V DIMMING (10%)	120/277	100	-	9500						KENALL (MAERS4-48-G-RAS3M-20L/ 50L/8L-35K9-DIM1-DV)	HE WILLIAMS (MD4)	
(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 80CRI WH)	DAYBRITE (LF4FR3140UDZT)	METALUX (4SNLED-LD4-30SL-LW-U-NV-840-C01-U)
(UC-5)	UNDER CABINET STRIP LIGHT	2' - 0"	-	-	-		LED	3500K		ELV DIMMING	120/277	8		600						DAY-BRITE (LINC100E-L28-935-UNV-WHG-DIM)	KENALL (AUCLED-1-MW-11L35K-2 4-277)	AIREY-THOMPSON (13HC-N-35K-24-2-3-D11)



REV	DATE	DESCRIPTION

VCBO NUMBER: 20320  
CLIENT NUMBER:  
DATE: OCT. 30 2020

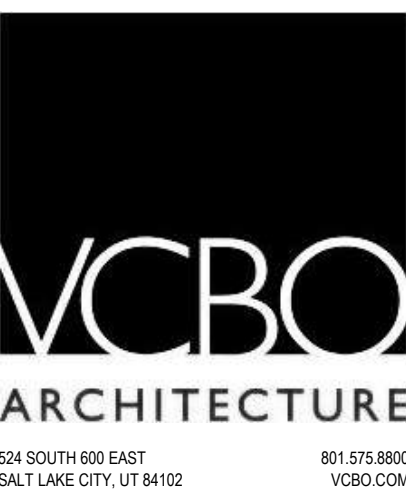
**MCKAY-DEE AMBULATORY SURGERY CENTER EXPANSION**  
 INTERMOUNTAIN HEALTHCARE  
 3895 MEDICAL DRIVE, OGDEN, UTAH 84403  
 CONSTRUCTION DOCUMENTS





## LIGHTING/SPACE CONTROL TYPE SCHEDULE

WIRING LEGEND	APPROVED MANUFACTURERS	LIGHTING CONTROL ID	GENERAL NOTES																	
_____ LINE VOLTAGE WIRING - - - - - 0-10V WIRING ----- CAT5 CABLING _____ WIRING BY OTHERS ○-○ TWP 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 PHOTOCELL 4. L = PLUG LOAD CONTROLLER 5. # = INSTANCE	1. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER. 2. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION. 3. PROVIDE CUSTOMIZED ENGRAVED PERMANENT BUTTON LABELS ON EACH SWITCH, LABEL TO MATCH BUTTON LABEL ID OR AS DIRECTED BY OWNER. 4. PART NUMBERS SHOWN ARE BASED ON WATTSTOPPER AS THE BASIS OF DESIGN. ALL APPROVED MANUFACTURERS ARE SUBJECT TO MEETING ALL FUNCTIONS AND CAPABILITIES OF THE BASIS OF DESIGN SYSTEM AND PRODUCTS. FAILURE TO MEET THESE SHALL REQUIRE THE CONTRACTOR TO PROVIDE A SYSTEM THAT DOES AT NOT ADDITIONAL COST. 5. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES. 6. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS. 7. WIRING MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED WIRING THAT WILL BOTH MEET THE MANUFACTURERS REQUIREMENTS AND MATCH WITH THE SHOWN SYSTEM. 8. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS INCLUDING OCCUPANCY SENSOR LAYOUT AND COVERAGE PATTERNS. PROVIDE 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"	-	-	-	-	-	-	-	-	
2D1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	-	15	RELAY CLOSED ON OCCUPANCY	-	-	TOGGLE PRESS- TOP-ON, PRESS- BOTTOM-OFF, HOLD TOP-RAISE, HOLD BOTTOM-"OFF/ LOWER"	FUNCTION: PRESET- SCENE #01 ZONE "a" 75% LABEL ID: "PRE #1"	FUNCTION: PRESET- SCENE #02 ZONE "a" 0% DIMMING LABEL ID: "PRE #2"	FUNCTION: PRESS- SELECT ZONE "a" FOR DIMMING LABEL ID: "ZONE a"	FUNCTION: PRESS- SELECT ZONE "b" FOR DIMMING LABEL ID: "ZONE b"	-	-	-	-	-	-



REV	DATE	DESCRIPTION

VCBO NUMBER: 20320  
 CLIENT NUMBER:  
 DATE: OCT. 20 2020

**MCKAY-DEE AMBULATORY SURGERY CENTER EXPANSION**  
 INTERMOUNTAIN HEALTHCARE  
 3895 MEDICAL DRIVE, OGDEN, UTAH 84403  
 CONSTRUCTION DOCUMENTS

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

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

STATION PATCH CORD SCHEDULE (CATEGORY 6A F/UTP CABLES W/RJ-45 CONNECTORS)			
LENGTH (FEET)	COLOR	QUANTITY	UNIT COST (EACH)
7'	BLUE	40% OF TOTAL PORTS IN TDRS	
10'	BLUE	40% OF TOTAL PORTS IN TDRS	
15'	BLUE	20% OF TOTAL PORTS IN TDRS	

FIBER PATCH CORD SCHEDULE (SINGLE-MODE W/LC CONNECTORS)			
LENGTH (METER)	COLOR	QUANTITY	UNIT COST (EACH)
-	-	-	-
3	YELLOW	4	-
5	YELLOW	4	-

WIRELESS PATCH CORD PATCH CORD SCHEDULE (CATEGORY 6A F/UTP W RJ/45 CONNECTORS)			
LENGTH (METER)	COLOR	QUANTITY	UNIT COST (EACH)
7'	YELLOW	100% OF TOTAL PORTS IN TDRS	

CLINICAL ENGINEERING PATCH CORD SCHEDULE (CATEGORY 6A F/UTP W RJ/45 CONNECTORS)			
LENGTH (METER)	COLOR	QUANTITY	UNIT COST (EACH)
5'	ORANGE	70% OF TOTAL PORTS IN TDRS	
7'	ORANGE	30% OF TOTAL PORTS IN TDRS	

EQUIPMENT/CABLE LIST		
REQUIREMENTS 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
	STATION CABLE, DATA - CATEGORY 6A FUTP PLENUM, ORANGE, CLINICAL ENGINEERING	SIEMON 9A6P4-A5-09-R1A
	STATION CABLE, DATA - CATEGORY 5E RISER, GREEN VENDOR NETWORK	SIEMON 9C5R4-E2-07-R1A
▽	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 10GM-FPS02-02
▽	CATEGORY 6A JACK - DATA, BLUE	SIEMON 26A-S06
▽	BLANK INSERT, WHITE	SIEMON MX-BL-02
▽	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 2 POSITION	SIEMON 10GM-FPS02-02
▽	CATEGORY 6A JACK - DATA, BLUE	SIEMON 26A-S06
F	DATA OUTLET, FURNITURE FACEPLATE, BLACK	SIEMON MX-LUMA-01
F	CATERGPRU 6A JACK - DATA, BLUE	SIEMON 26A-S06
F	BLANK MODULE, BLACK	SIEMON MX-BL-01
▽	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON 10GM-FPS04-02
▽	CATEGORY 6A JACK - DATA, BLUE	SIEMON 26A-S06
▽	BLANK INSERT, WHITE	SIEMON MX-BL-02
3F	DATA OUTLET, FURNITURE FACEPLATE, BLACK	SIEMON MX-LUMA-01
3F	CATEGORY 6A JACK - DATA, BLUE	SIEMON 26A-S06
3F	BLANK MODULE, BLACK	SIEMON MX-BL-01
4	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON 10GM-FPS04-02
4	CATEGORY 6A JACK - DATA, BLUE	SIEMON 26A-S06
WAP	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	SIEMON MX-SMZ2-02
W	CATEGORY 6A JACK - DATA, YELLOW	SIEMON 26A-S05
M	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON 10GM-FPS04-02
M	CATEGORY 6A JACK - DATA, ORANGE	SIEMON 26A-S09
□	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 1 POSITION	SIEMON MX-SMZ1-02
□	CATEGORY 6A JACK - DATA, BLUE	SIEMON 26A-S06
[SPP1]	48 PORT, 1RU ANGLE PATCH PANEL WITH OUTLETS	SIEMON 26AS-PA-48
[RPP1]	48 PORT, 2RU ANGLE PATCH PANEL, 110 STYLE	SIEMON HDS-48A
[CEPP1]	48 PORT, 1RU ANGLE PATCH PANEL WITH OUTLETS	SIEMON 26AS-PA-48
	COPPER, PATCH CORD, 6A FUTP, BLUE 5'	SIEMON ZM6A-S-05-06
	COPPER, PATCH CORD, 6A FUTP, BLUE 7'	SIEMON ZM6A-S-07-06
	COPPER, PATCH CORD, 6A FUTP, BLUE 10'	SIEMON ZM6A-S-10-06
	COPPER, PATCH CORD, 6A FUTP, YELLOW 7'	SIEMON ZM6A-S-07-05
	COPPER, PATCH CORD, 6A FUTP, ORANGE 5'	SIEMON ZM6A-S-05-09
	COPPER, PATCH CORD, 6A FUTP, ORANGE 7'	SIEMON ZM6A-S-07-09
	COPPER, PATCH CORD, 5E, BLUE 5'	SIEMON MC5E-06-06-06
	COPPER, PATCH CORD, 5E, BLUE 7'	SIEMON MC5E-07-06-06

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

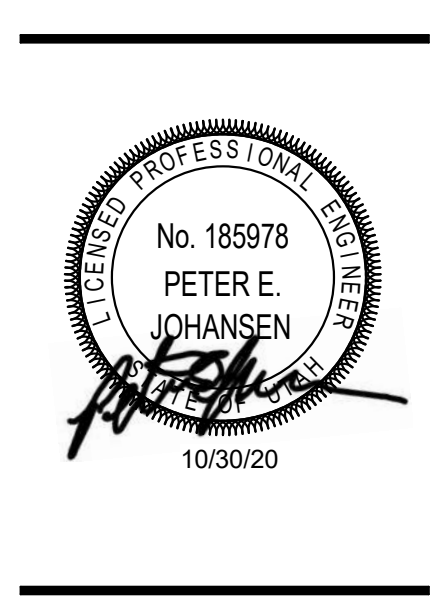
- ### GENERAL PROJECT NOTES
- UNLESS OTHERWISE NOTED, INSTALL ALL CABLE INSIDE RACEWAY SYSTEMS. WHERE RACEWAY SYSTEMS HAVE NOT BEEN PROVIDED OR SPECIFIED, INSTALL CABLE THROUGH THE SPECIFIED "CADDY" CLIPS AT THE MINIMUM INTERVALS IDENTIFIED IN THE SPECIFICATIONS. SUPPORT "CADDY" CLIPS DIRECTLY FROM THE 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 SAUSEDAT 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
WVM	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...



**SPECTRUM ENGINEERS**  
 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

REV	DATE	DESCRIPTION

VCBO NUMBER: 20230  
 CLIENT NUMBER:  
 DATE: OCT. 30 2020

**MCKAY-DEE AMBULATORY SURGERY CENTER EXPANSION**  
 INTERMOUNTAIN HEALTHCARE  
 3895 MEDICAL DRIVE, OGDEN, UTAH 84403  
 CONSTRUCTION DOCUMENTS

REV	DATE	DESCRIPTION

VCBO NUMBER: 20200  
CLIENT NUMBER:  
DATE: OCT. 30 2020

**△ SHEET KEYNOTES**

**GENERAL SHEET NOTES**



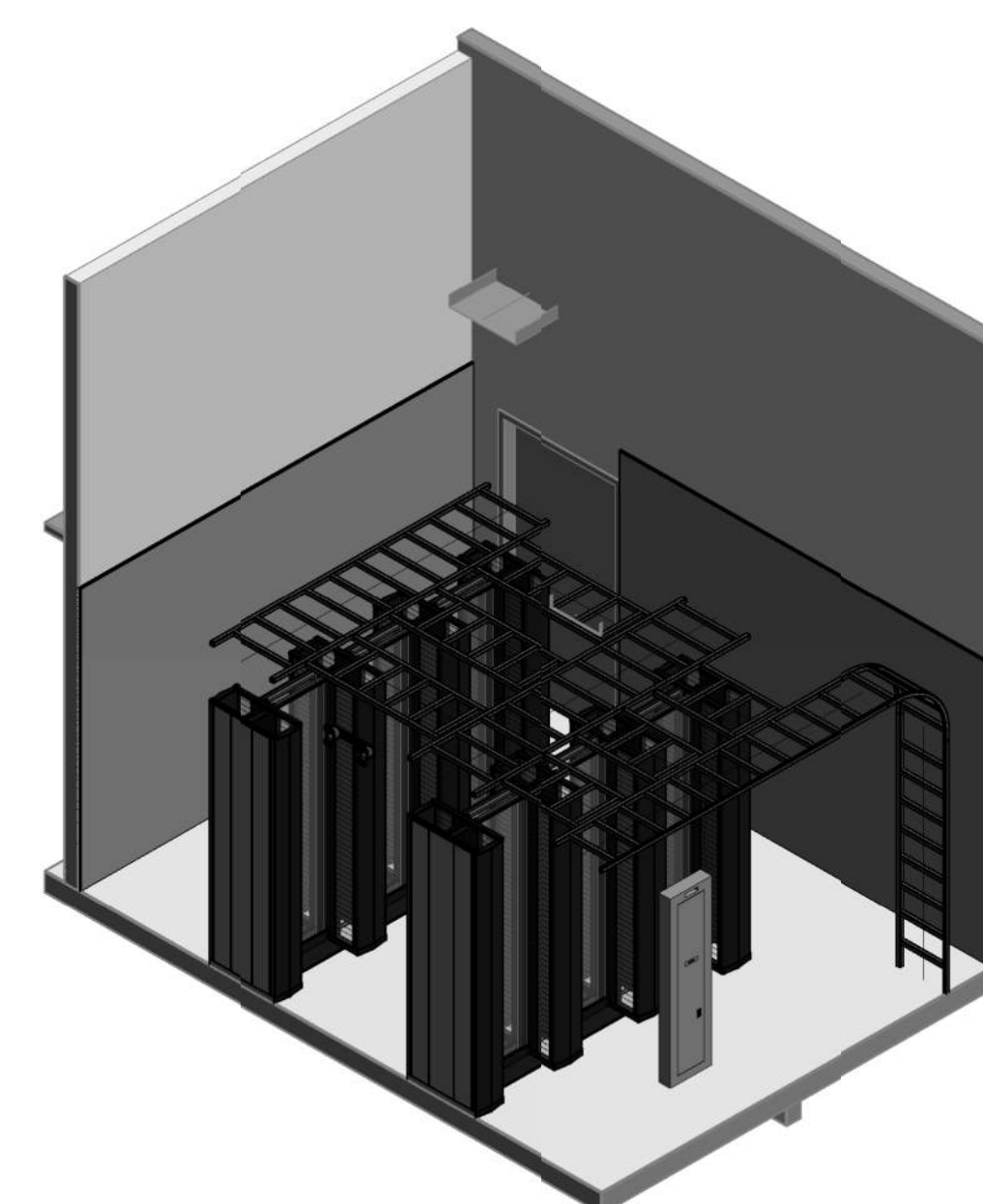
**A1 TELECOM PLAN - LEVEL 02**  
SCALE: 1/8" = 1'-0"

C:\Users\baal\Documents\200446 ELEC CENTRAL\_baal\F07.M

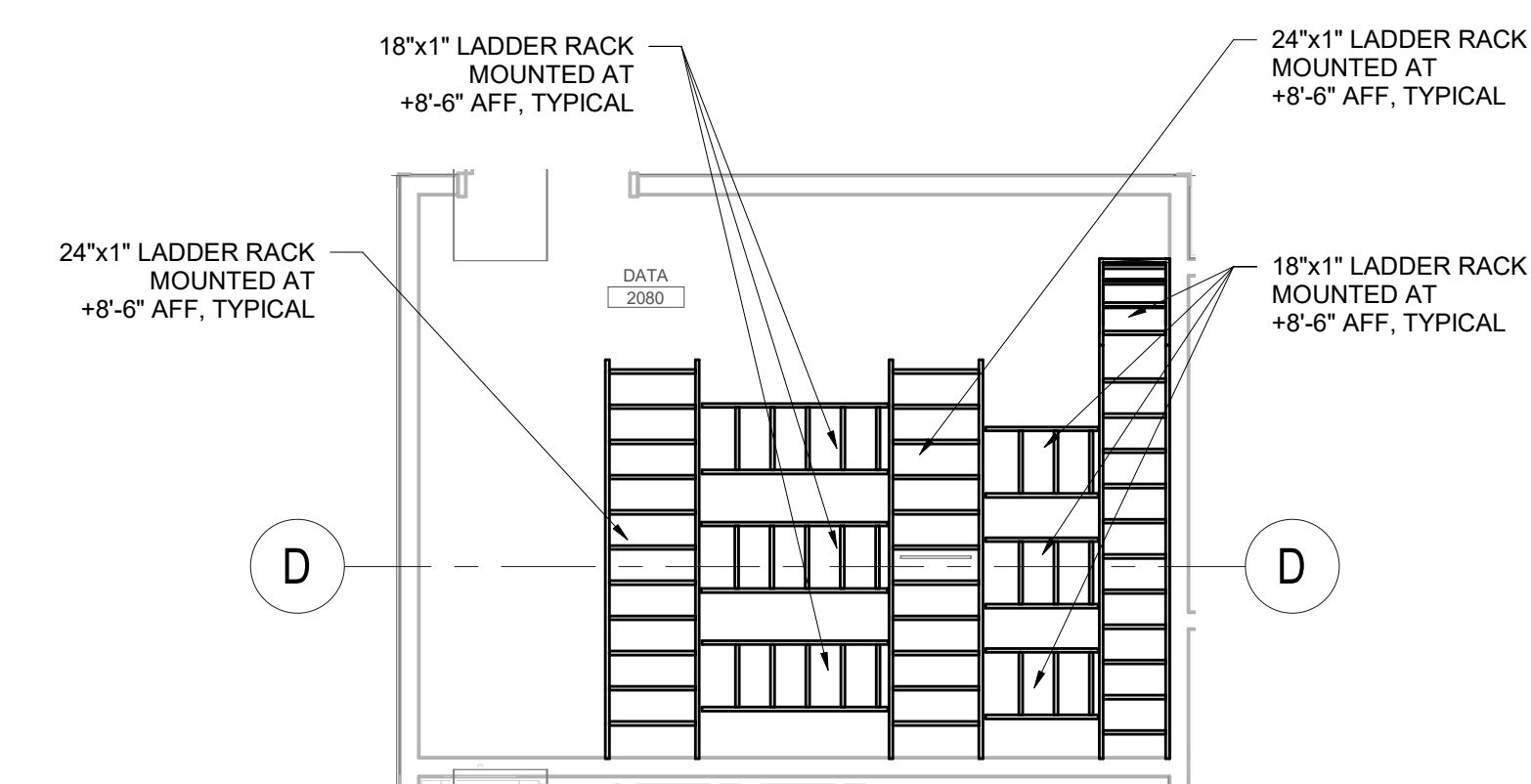


REV	DATE	DESCRIPTION

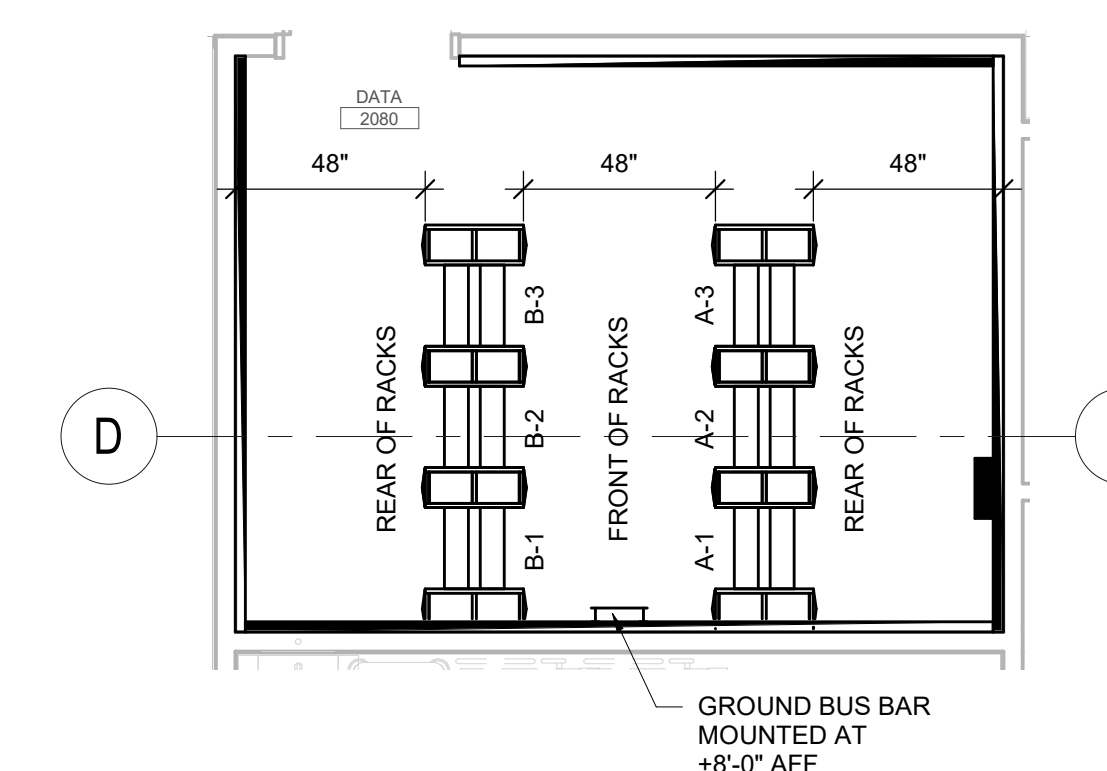
VCBO NUMBER: 20320  
CLIENT NUMBER:  
DATE: OCT. 30 2020



**C5 ENLARGED DATA 2080 ISOMETRIC PLAN**  
SCALE:



**B5 ENLARGED DATA 2080 LADDER RACK PLAN**  
SCALE: 1/4" = 1'-0"



**A5 ENLARGED DATA 2080 EQUIPMENT RACK PLAN**  
SCALE: 1/4" = 1'-0"

1. COORDINATE WIRE TERMINATION AND PATCH PANEL PLACEMENT WITH IHC REPRESENTATIVE SCOTT PETERSON 801-699-7890

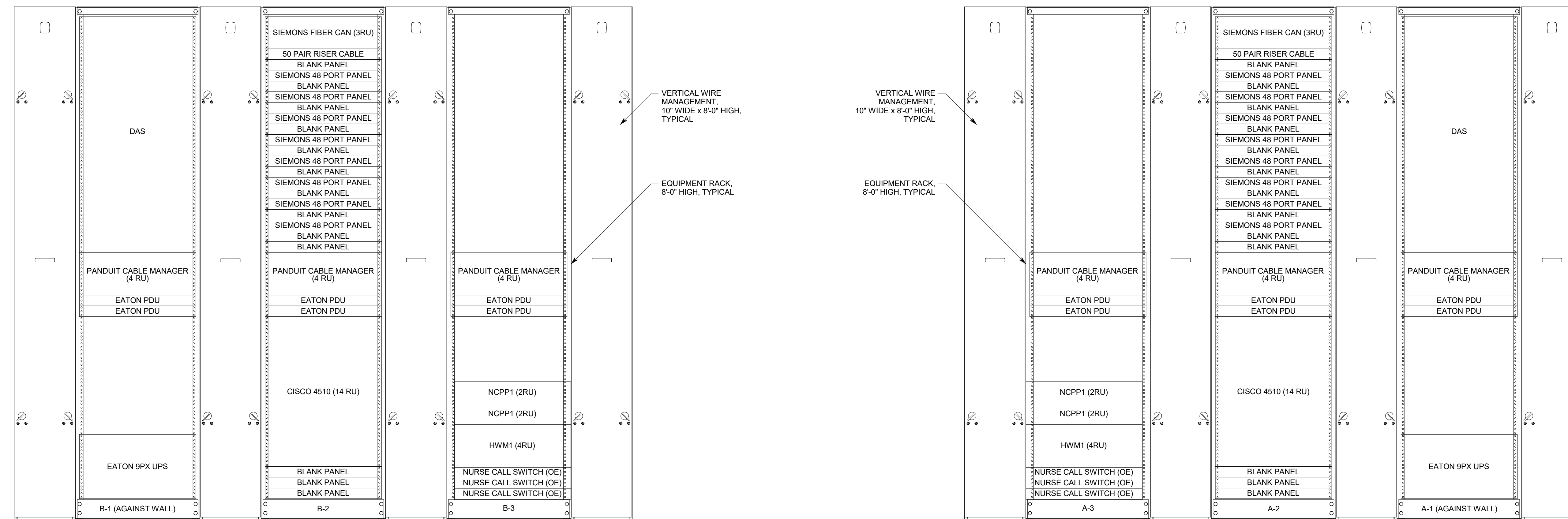


REV DATE DESCRIPTION

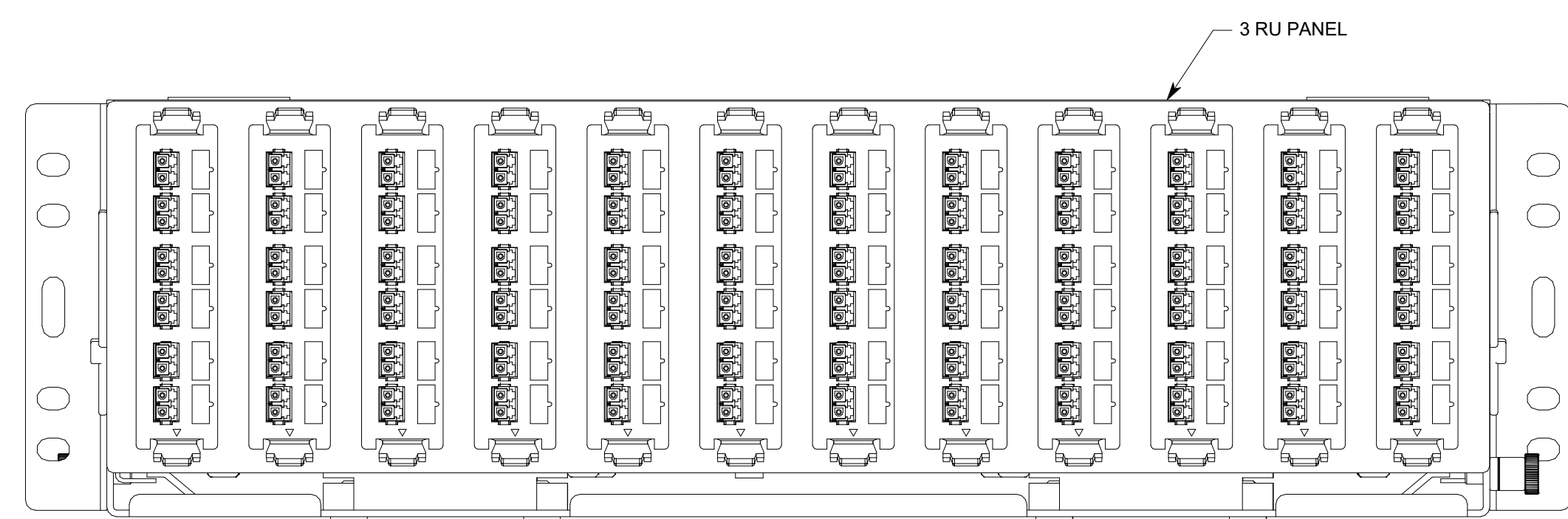
VCBO NUMBER: 20320  
CLIENT NUMBER:  
DATE: OCT. 30 2020

**MCKAY-DEE AMBULATORY SURGERY CENTER EXPANSION**  
INTERMOUNTAIN HEALTHCARE  
3895 MEDICAL DRIVE, OGDEN, UTAH 84403  
CONSTRUCTION DOCUMENTS

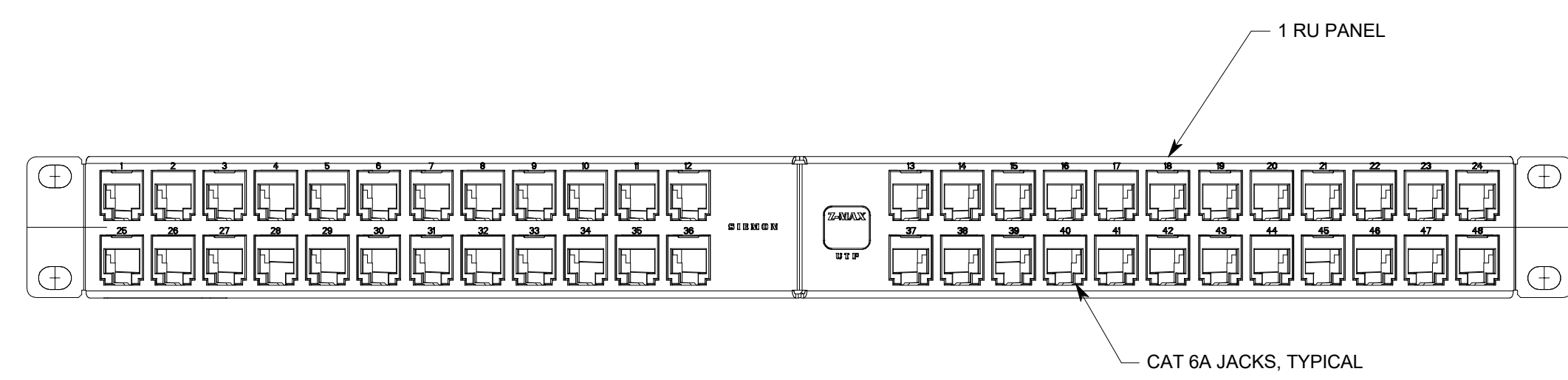
DATA DEVICE DROP SCHEDULE - DATA 2080				
DATA DEVICE TYPE	DETAIL LOCATION	COMM ROOM LOCATION	TOTAL BY FLOOR	Num of Drops
PLAN - LEVEL 02				
CAMERA (1-DROP)	SEE DETAIL 13/ET502	DATA 2080	5	5
CEILING WIRELESS ACCESS POINT (2-DROP)	SEE DETAIL 9/ET502	DATA 2080	3	6
WALL DATA (1-DROP)	SEE DETAIL 12/ET502	DATA 2080	3	3
WALL DATA (2-DROP)	SEE DETAIL 7/ET502	DATA 2080	45	90
WALL DATA (3-DROP)	SEE DETAIL 11/ET502	DATA 2080	6	18
WALL DATA (4-DROP)	SEE DETAIL 6/ET502	DATA 2080	2	8
WALL DATA - ABOVE COUNTER (2-DROP)	SEE DETAIL 7/ET502	DATA 2080	7	14
WALL DATA - CLINICAL (2-DROP)	SEE DETAIL 2/ET502	DATA 2080	9	18
WALL DATA - PHONE (1-DROP)	SEE DETAIL 1/ET502	DATA 2080	3	3
Grand total			83	165



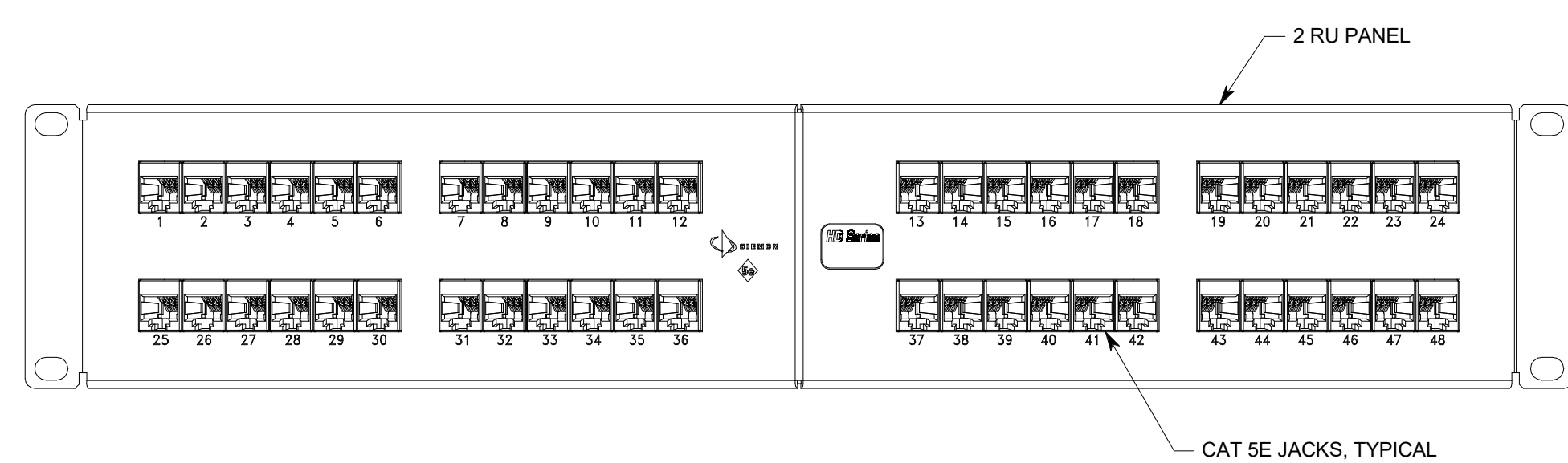
**A2** TELECOM RACK ELEVATION DETAIL, LEVEL 2, DATA 2080  
NO SCALE



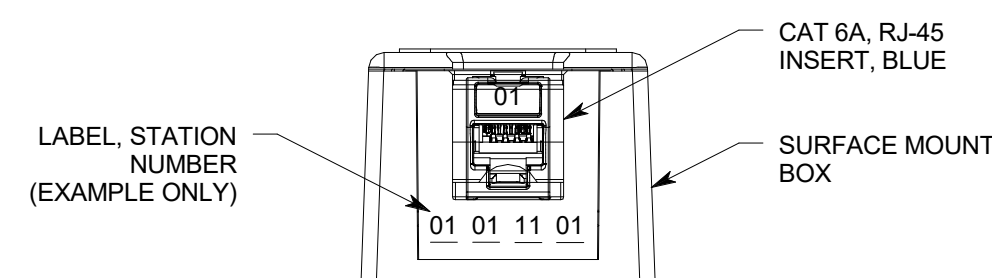
**16 FIBER PATCH PANEL, (FPP1), TEC/TSER**  
NO SCALE



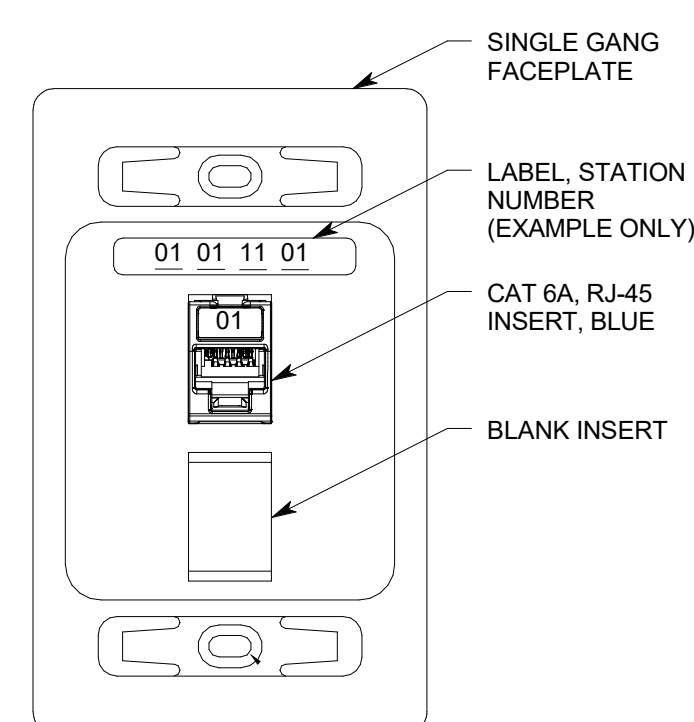
**15 STATION PATCH PANEL, (SPP1), TDR**  
NO SCALE



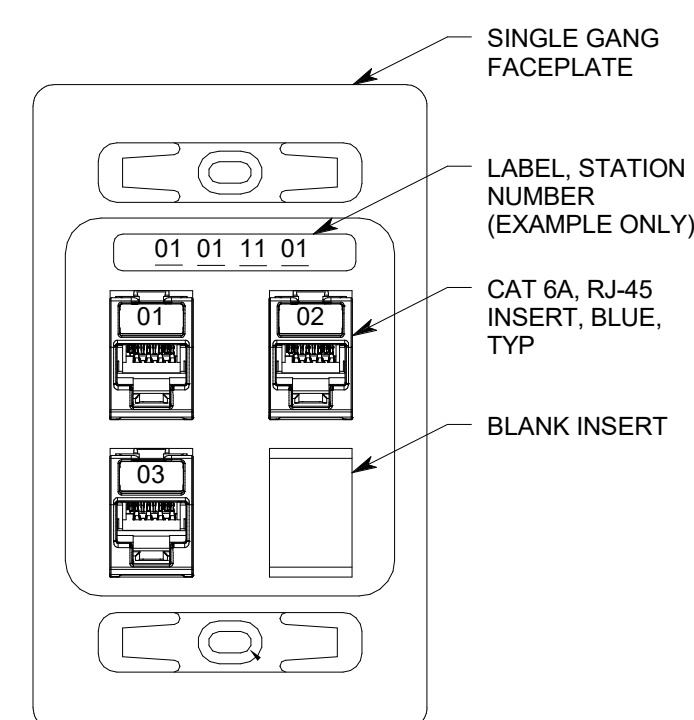
**14 RISER PATCH PANEL, (RPP1), TDR, TEC/TSER**  
NO SCALE



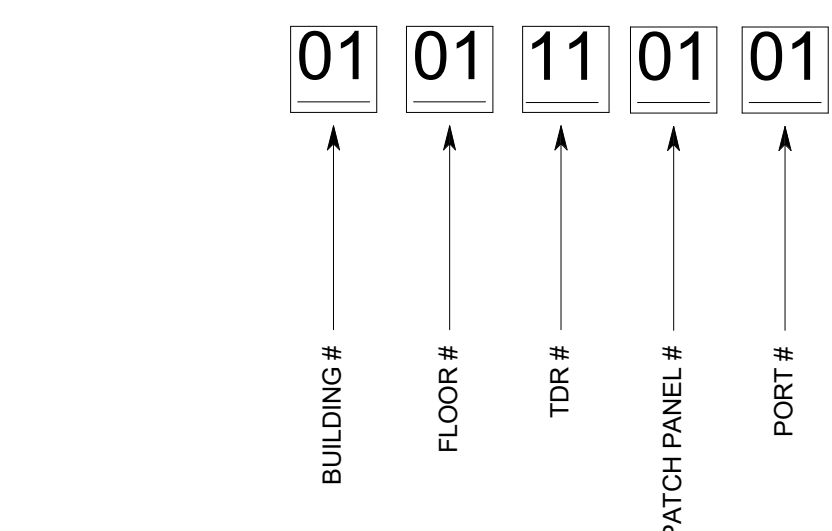
**13 TYPICAL 1-PORT CAMERA DATA OUTLET**  
NO SCALE



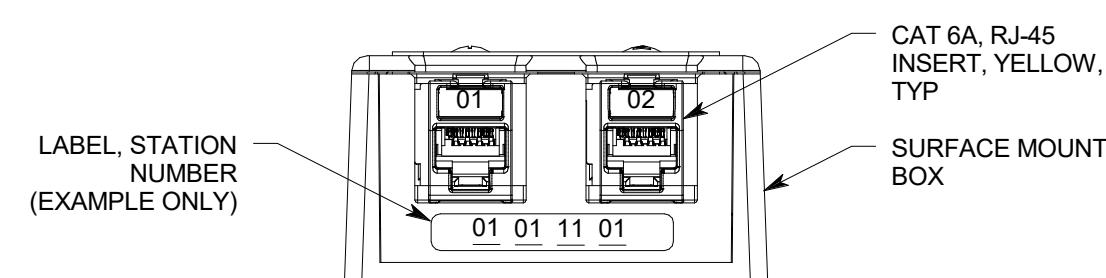
**12 TYPICAL 1-PORT DATA OUTLET**  
NO SCALE



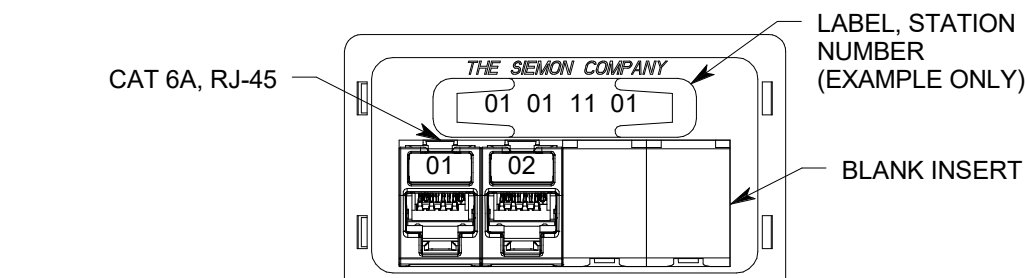
**11 TYPICAL 3-PORT DATA OUTLET**  
NO SCALE



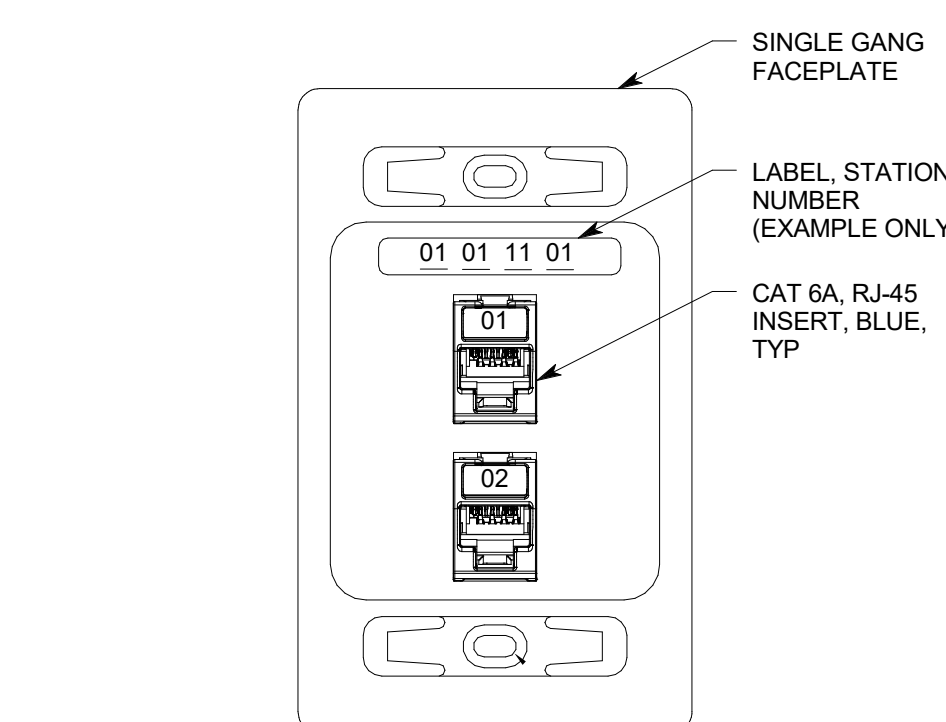
**10 CABLE ID EXAMPLE DETAIL**  
NO SCALE



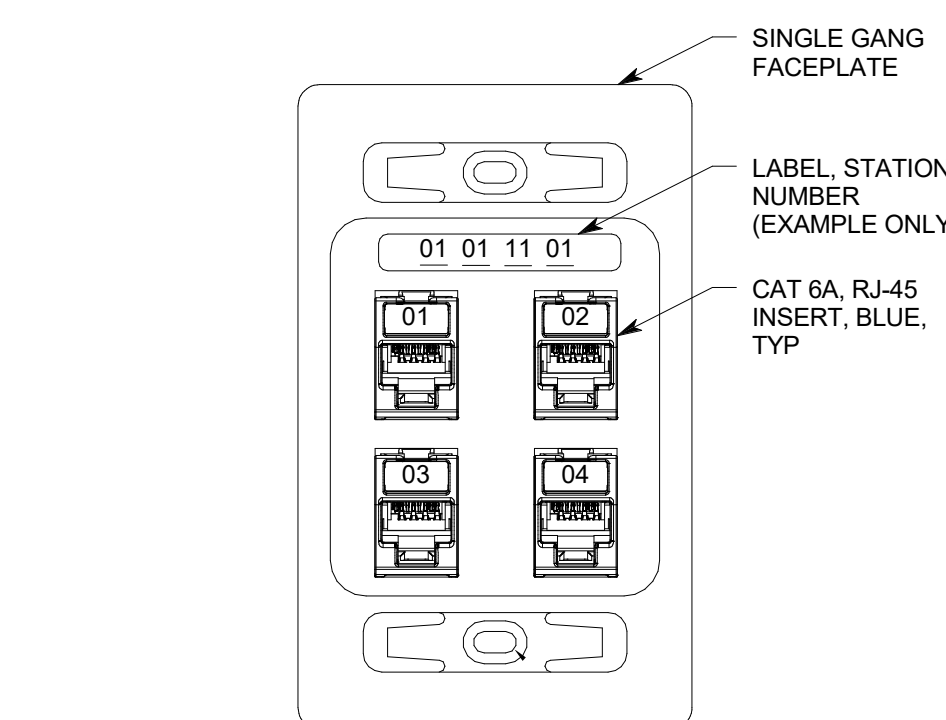
**9 TYPICAL 'WAP' DATA OUTLET**  
NO SCALE



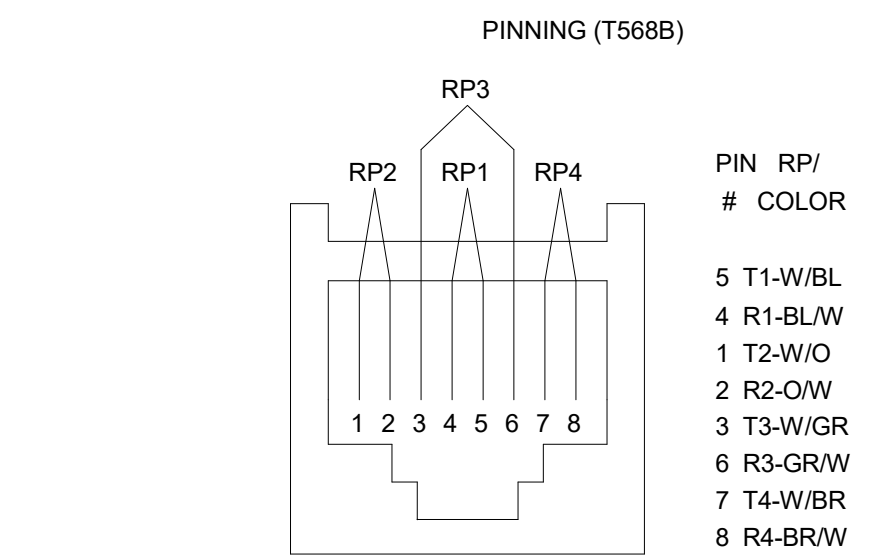
**8 TYPICAL 2-PORT FURN DATA OUTLET**  
NO SCALE



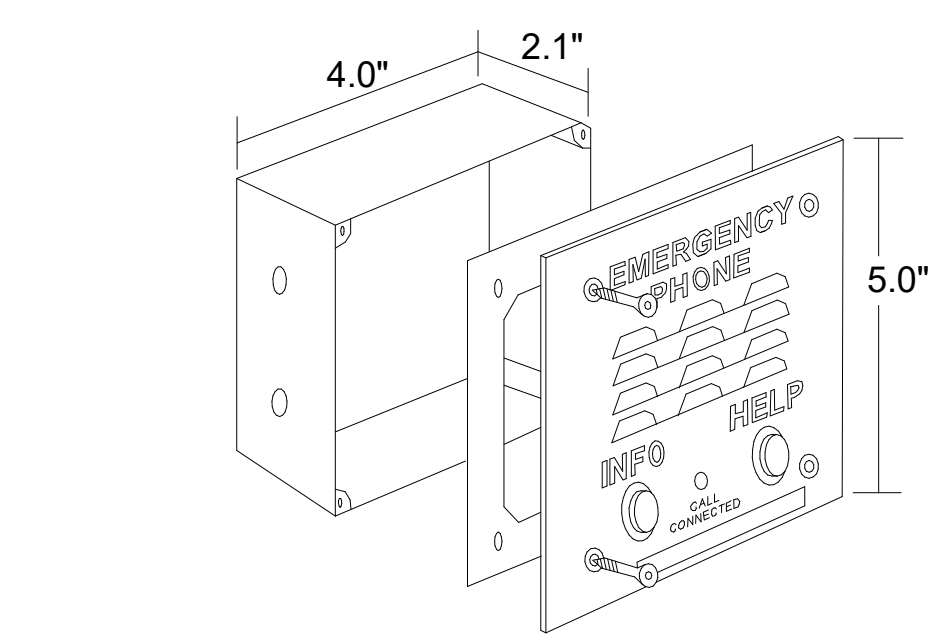
**7 TYPICAL 2-PORT DATA OUTLET**  
NO SCALE



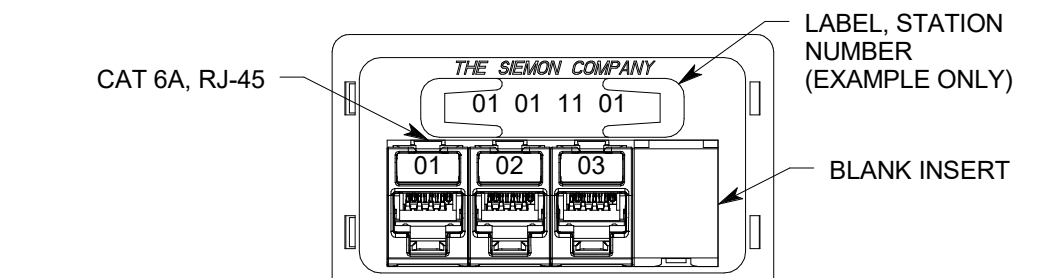
**6 TYPICAL 4-PORT DATA OUTLET**  
NO SCALE



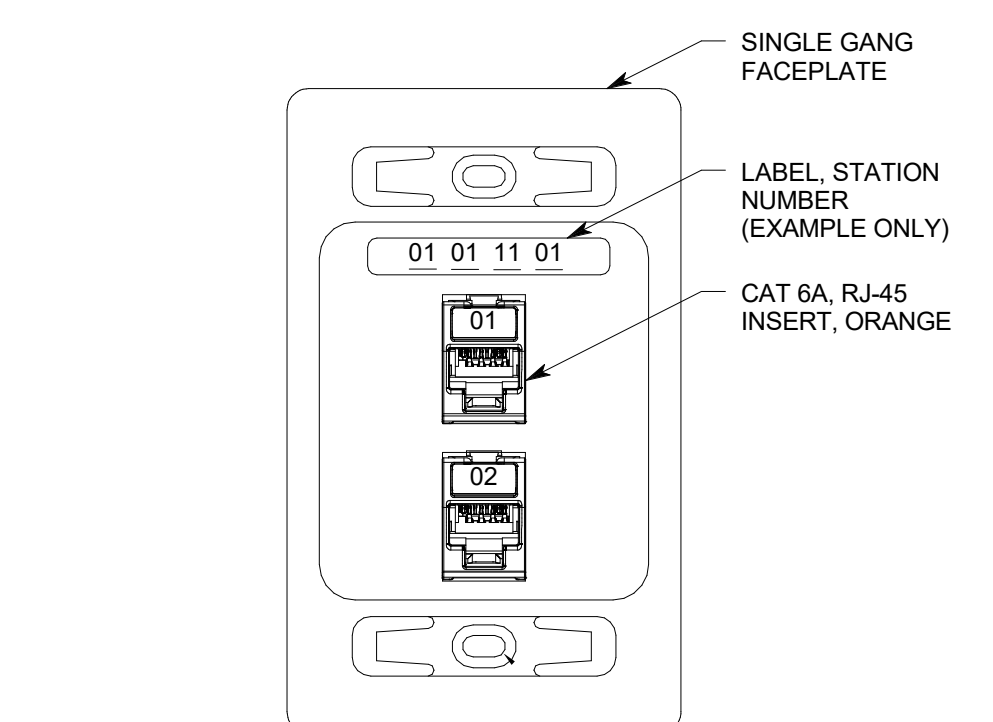
**5 TYPICAL VOICE-DATA OUTLET PINNING DETAIL**  
NO SCALE



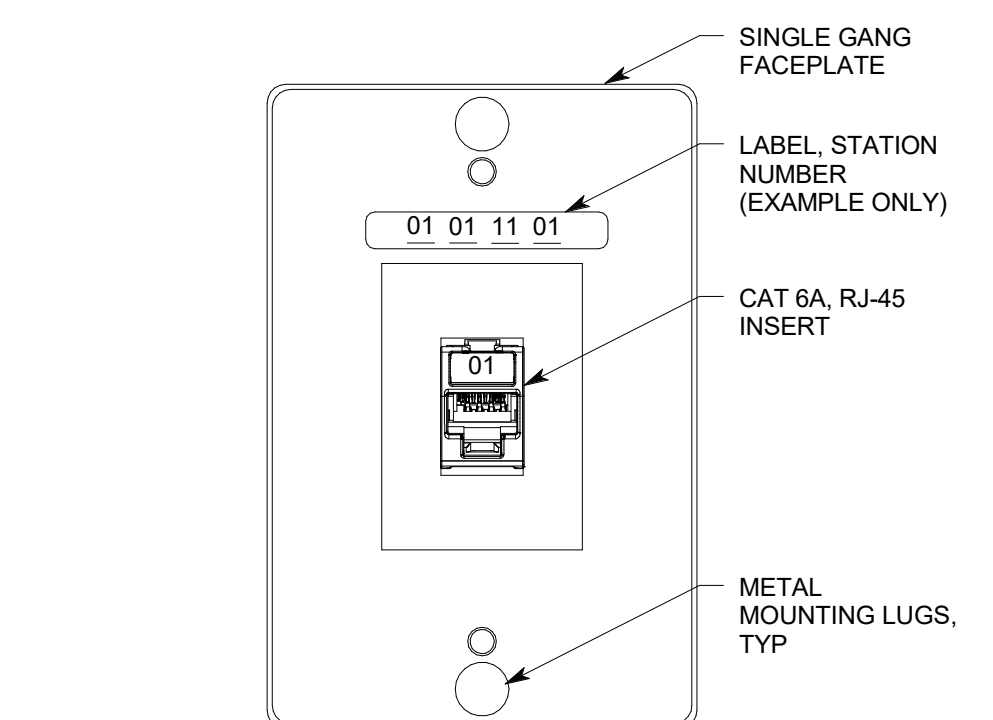
**4 EMERGENCY WALL PHONE VOICE OUTLET**  
NO SCALE



**3 TYPICAL 3-PORT FURN DATA OUTLET**  
NO SCALE



**2 TYPICAL 2-PORT PHYS MON DATA OUTLET**  
NO SCALE

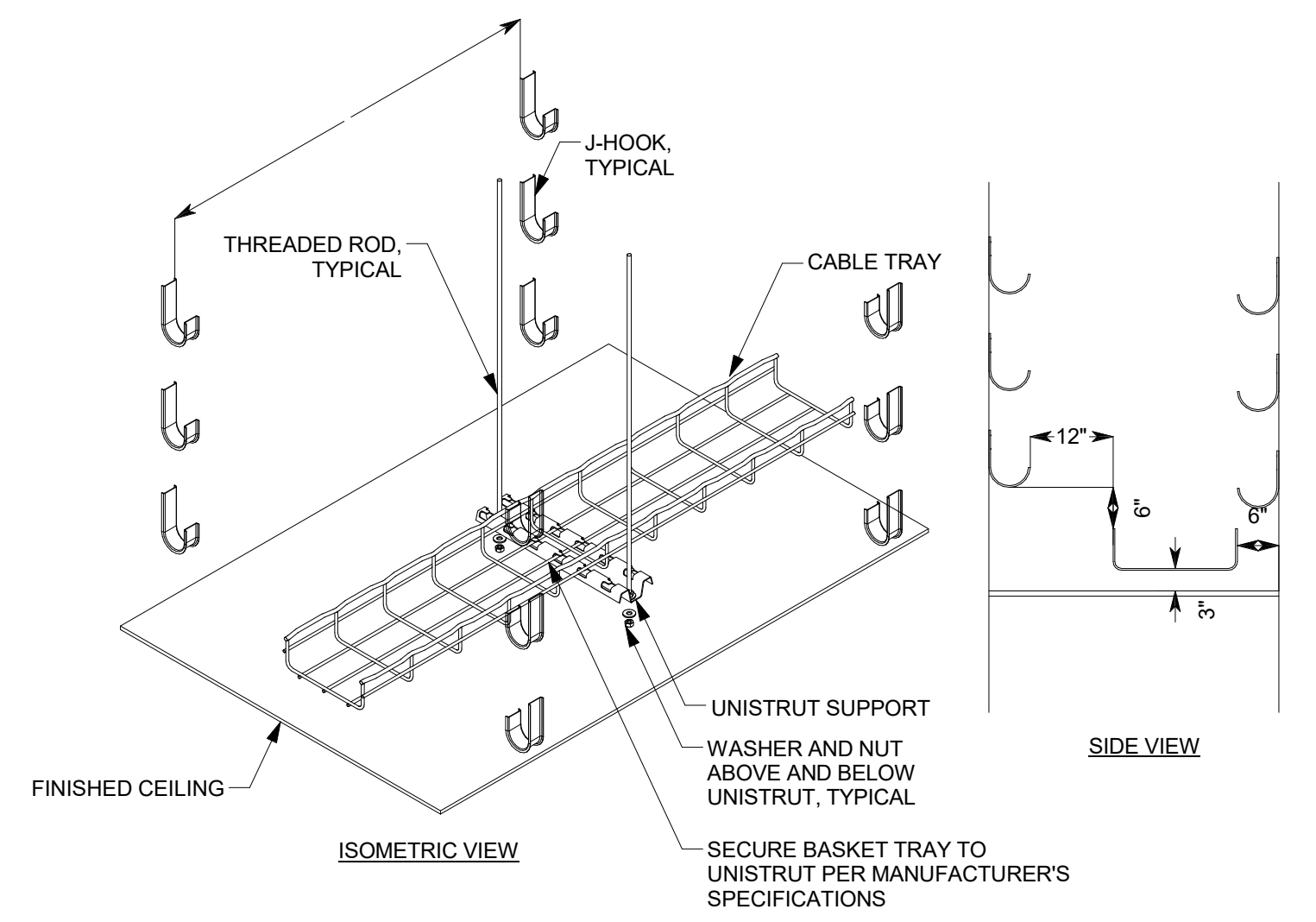


**1 TYPICAL WALL PHONE OUTLET**  
NO SCALE

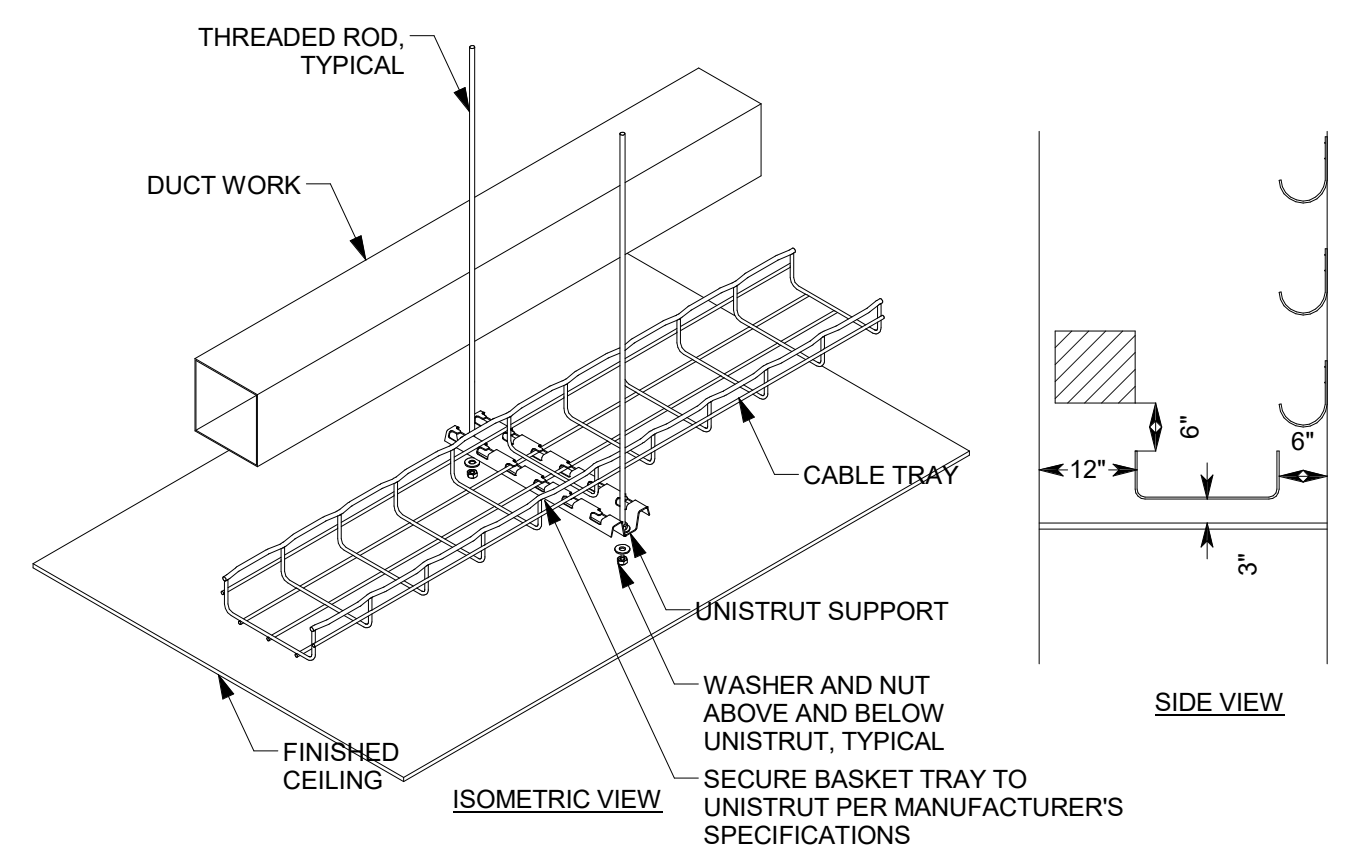


REV	DATE	DESCRIPTION
-----	------	-------------

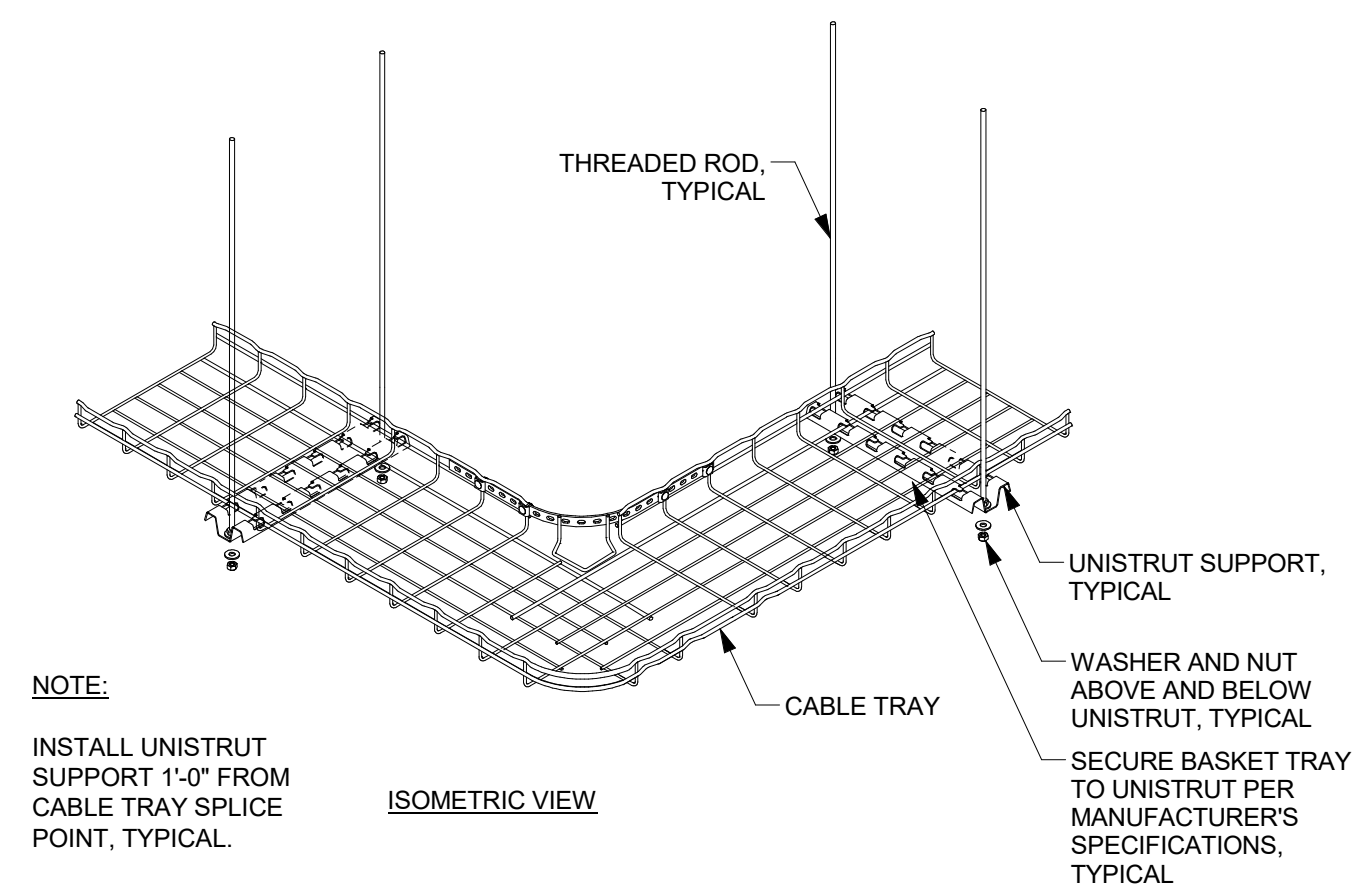
VCBO NUMBER:	20320
CLIENT NUMBER:	
DATE:	OCT. 30 2020



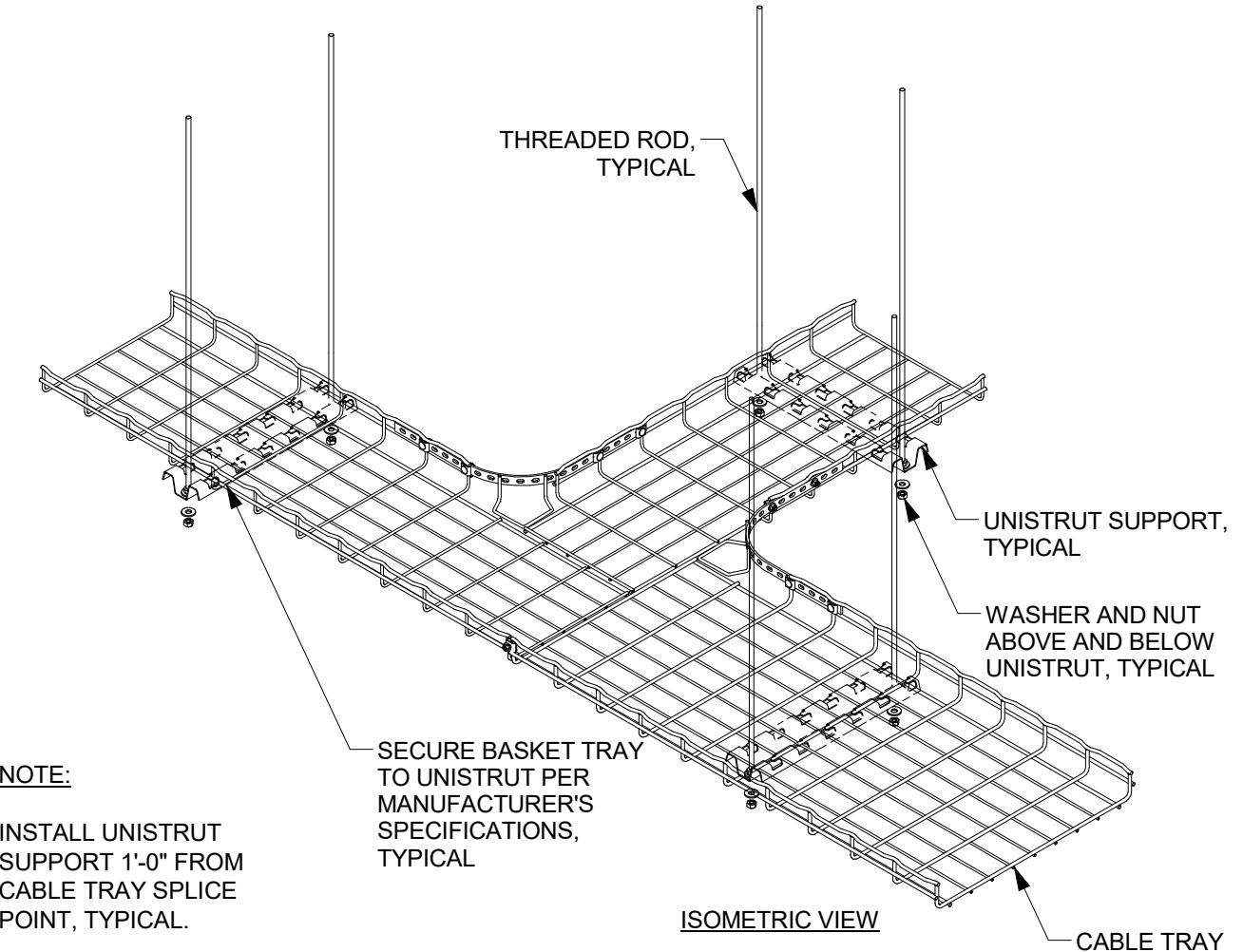
**8** TYPICAL CABLE TRAY WITH J-HOOK INSTALL  
NO SCALE



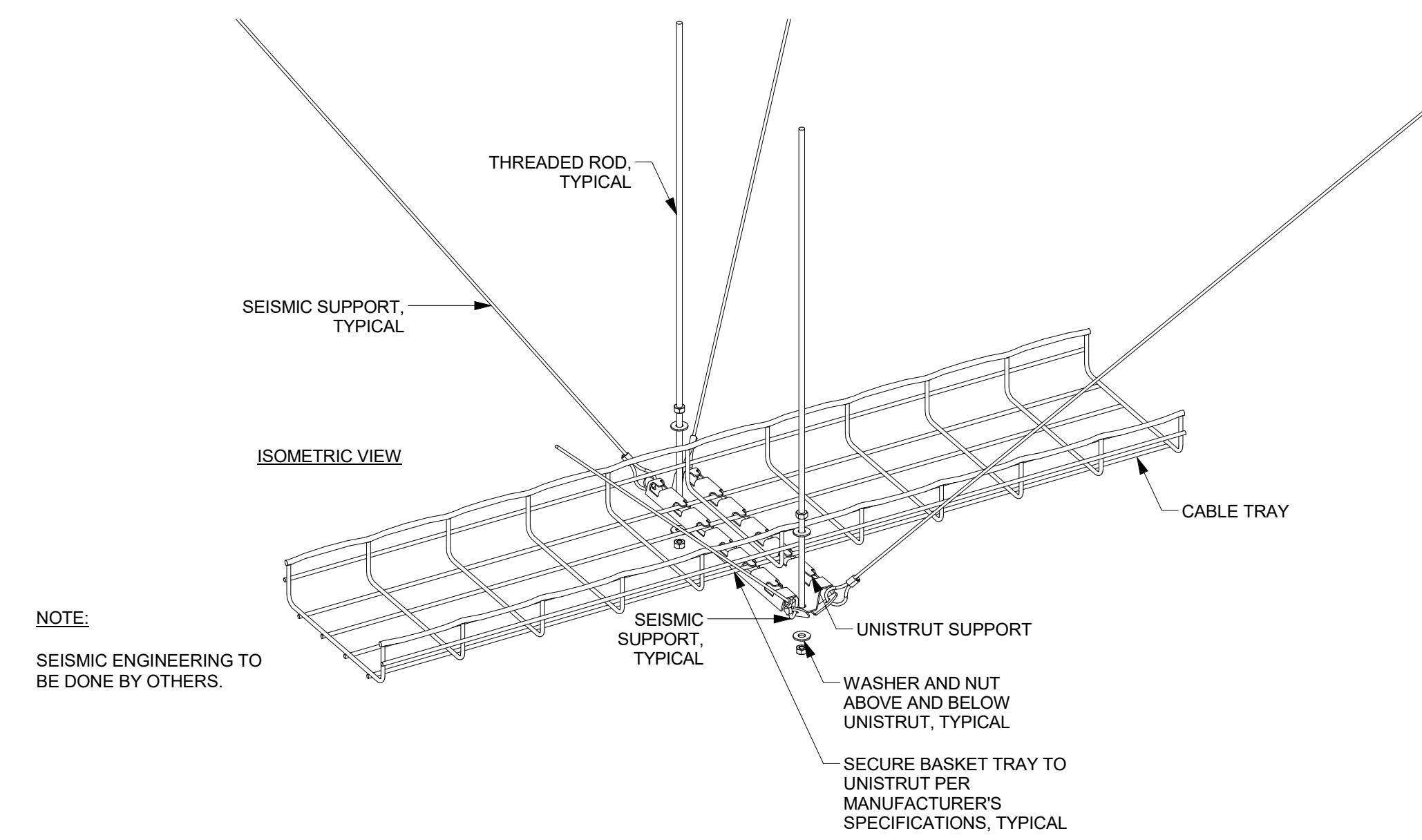
**7** TYPICAL CABLE TRAY WITH PARALLEL OBSTRUCTION  
NO SCALE



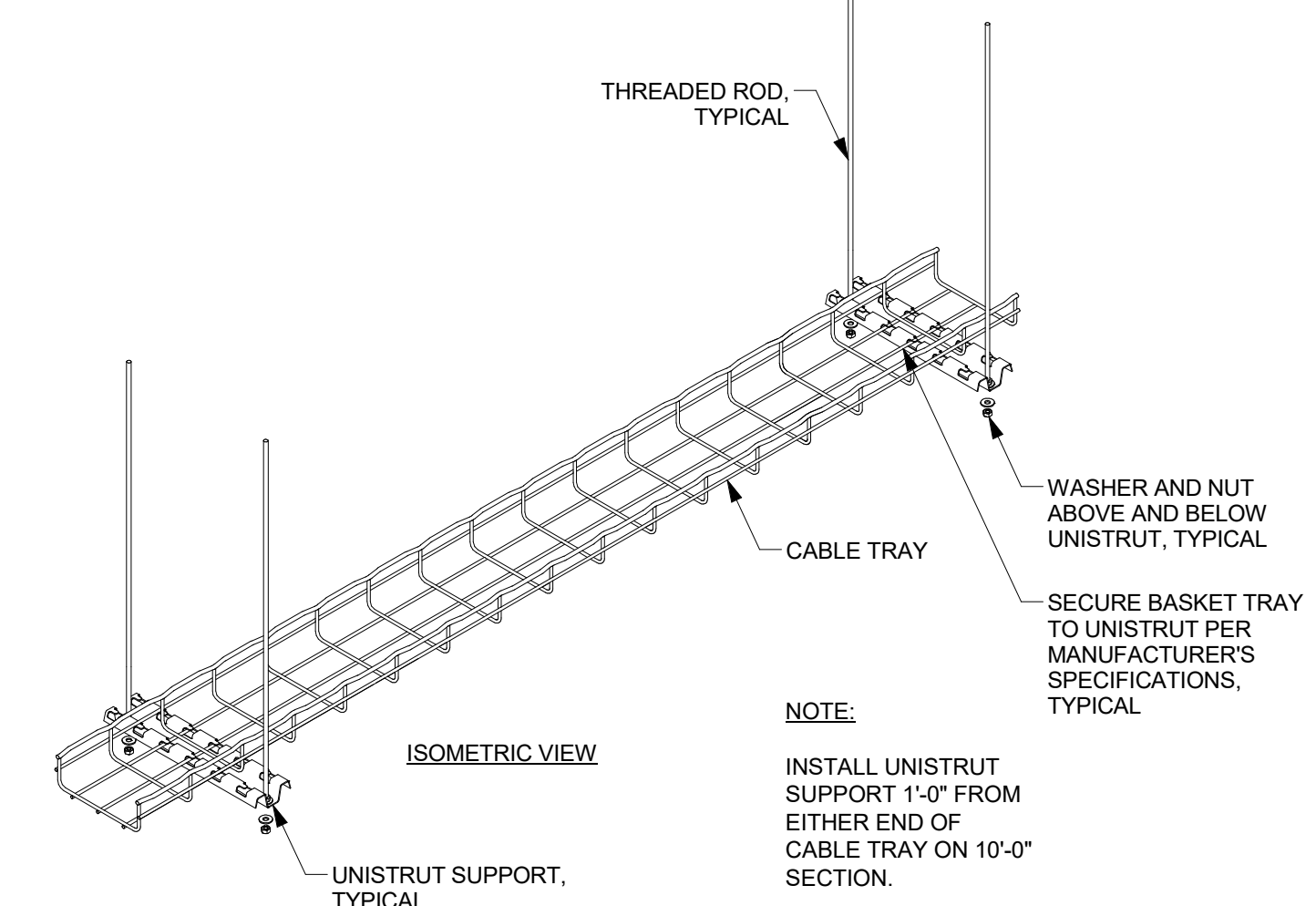
**6** CABLE TRAY 90 DEGREE BEND WITH SUPPORTS  
NO SCALE



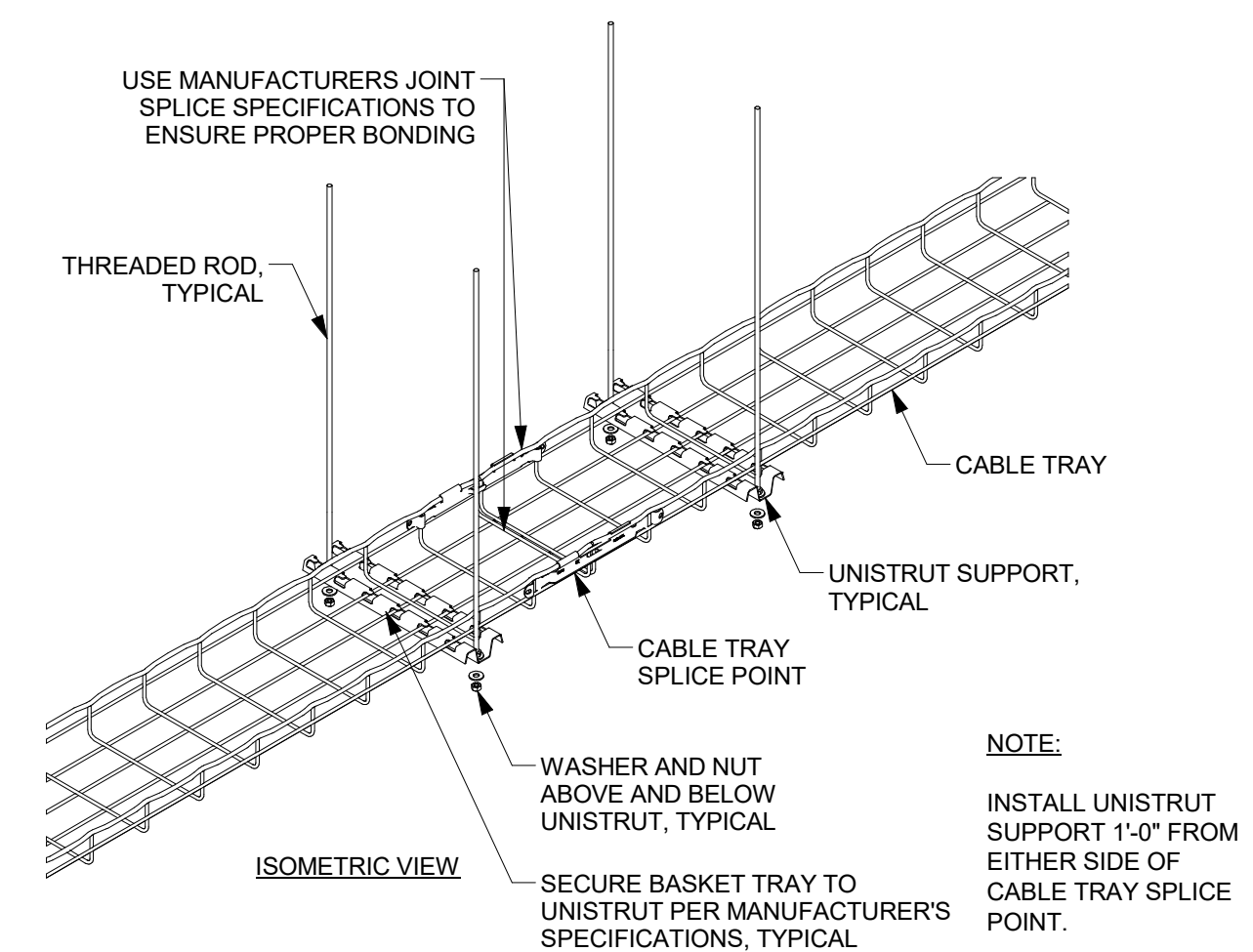
**5** CABLE TRAY INTERSECTION WITH SUPPORTS  
NO SCALE



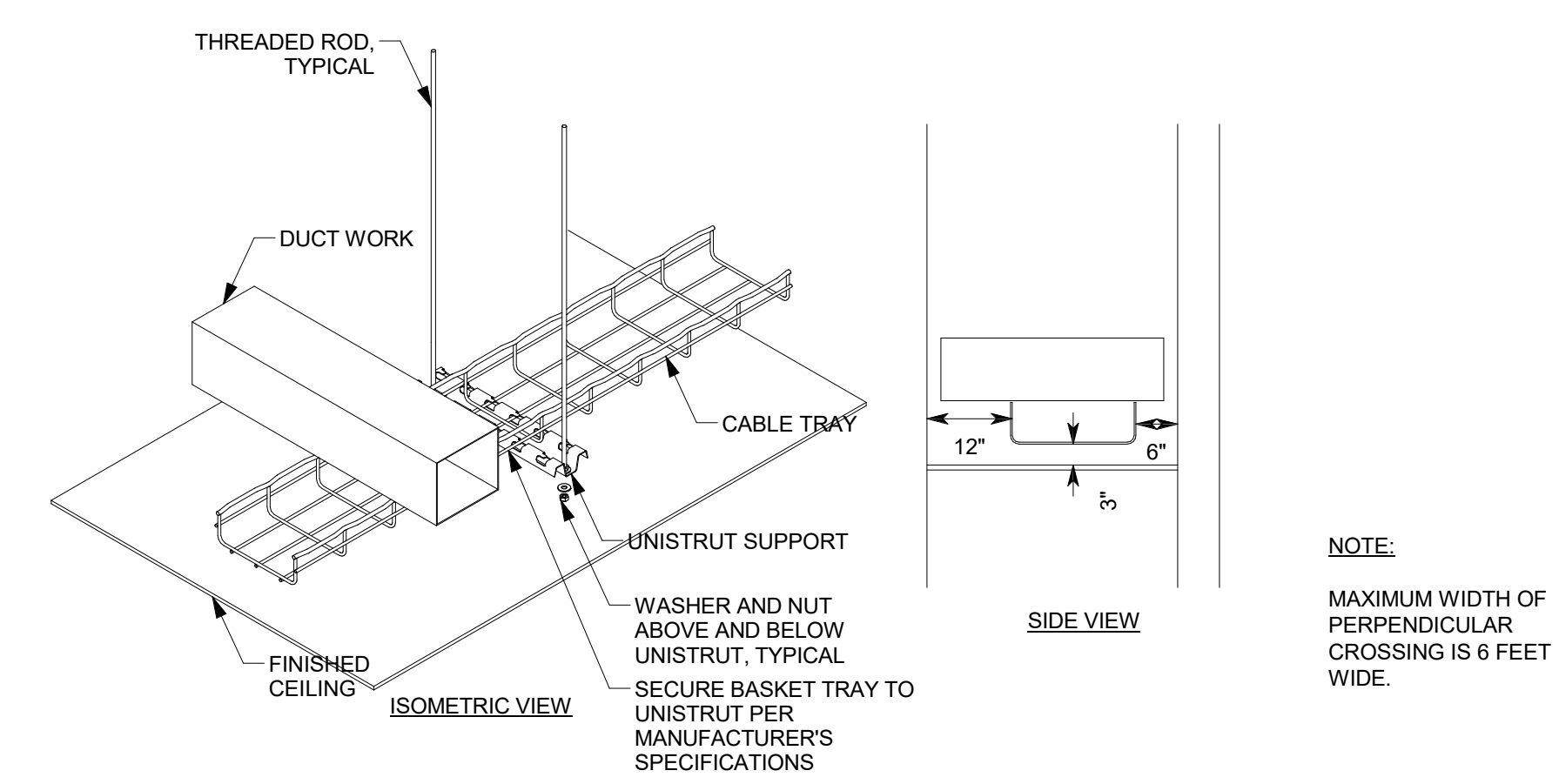
**4** CABLE TRAY WITH SEISMIC SUPPORTS  
NO SCALE



**3** 10' CABLE TRAY WITH SUPPORT AT ENDS  
NO SCALE



**2** CABLE TRAY WITH SUPPORT AT SPLICE POINT  
NO SCALE



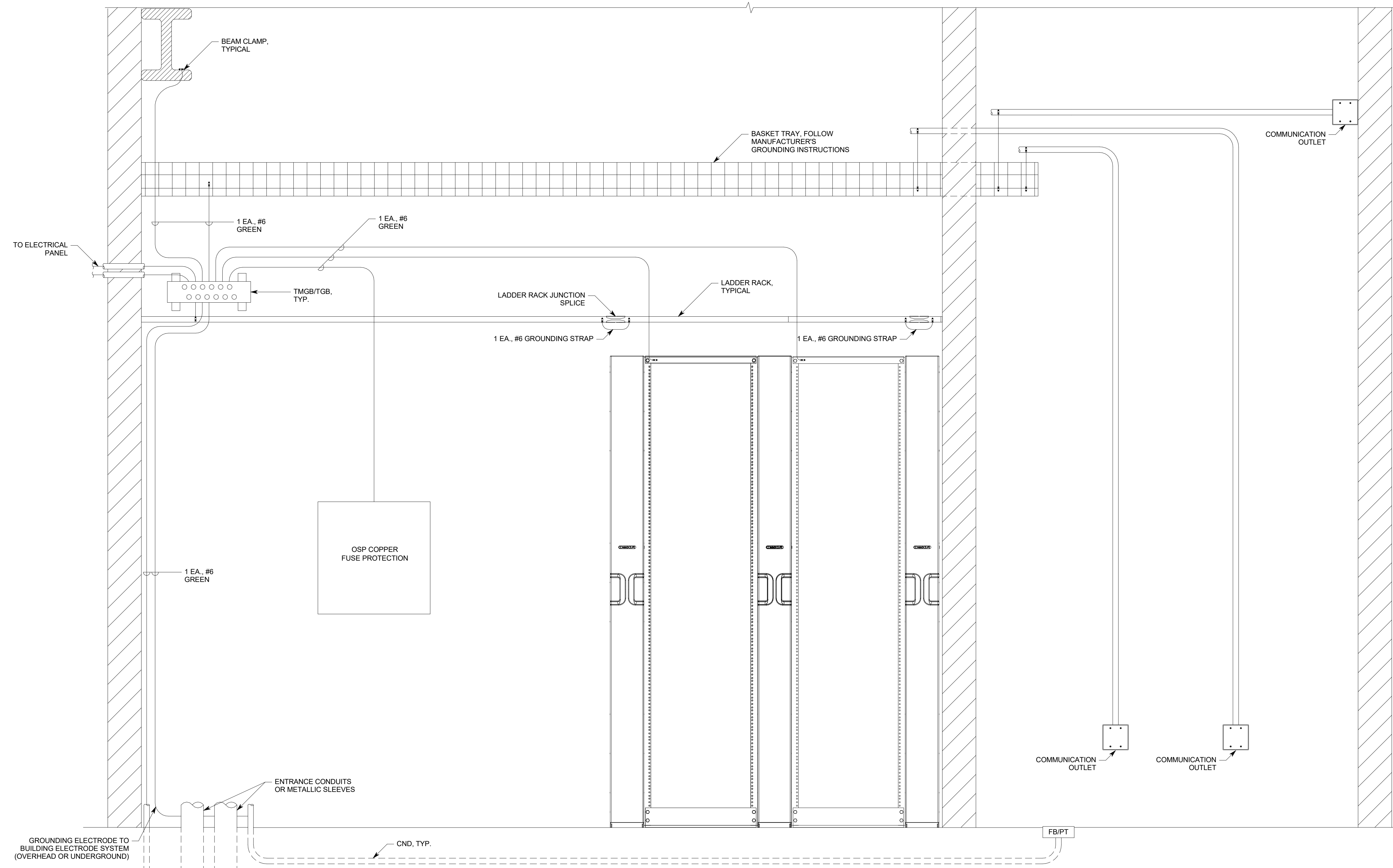
**1** TYPICAL CABLE TRAY WITH PERPENDICULAR CROSSING  
NO SCALE

REV	DATE	DESCRIPTION

VCBO NUMBER: 20320  
CLIENT NUMBER:  
DATE: OCT. 30 2020

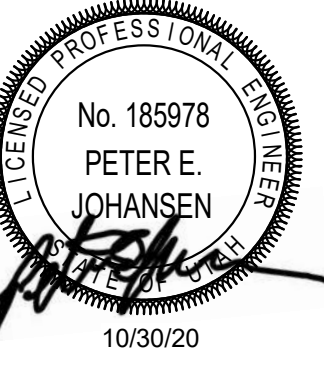
**MCKAY-DEE AMBULATORY SURGERY CENTER EXPANSION**  
INTERMOUNTAIN HEALTHCARE  
3895 MEDICAL DRIVE, OGDEN, UTAH 84403  
CONSTRUCTION DOCUMENTS

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



**A2** TELECOM EQUIPMENT RACK GROUNDING DETAIL  
NO SCALE

1. SEE "EC" SHEETS FOR NURSE CALL LOCATIONS.



REV	DATE	DESCRIPTION

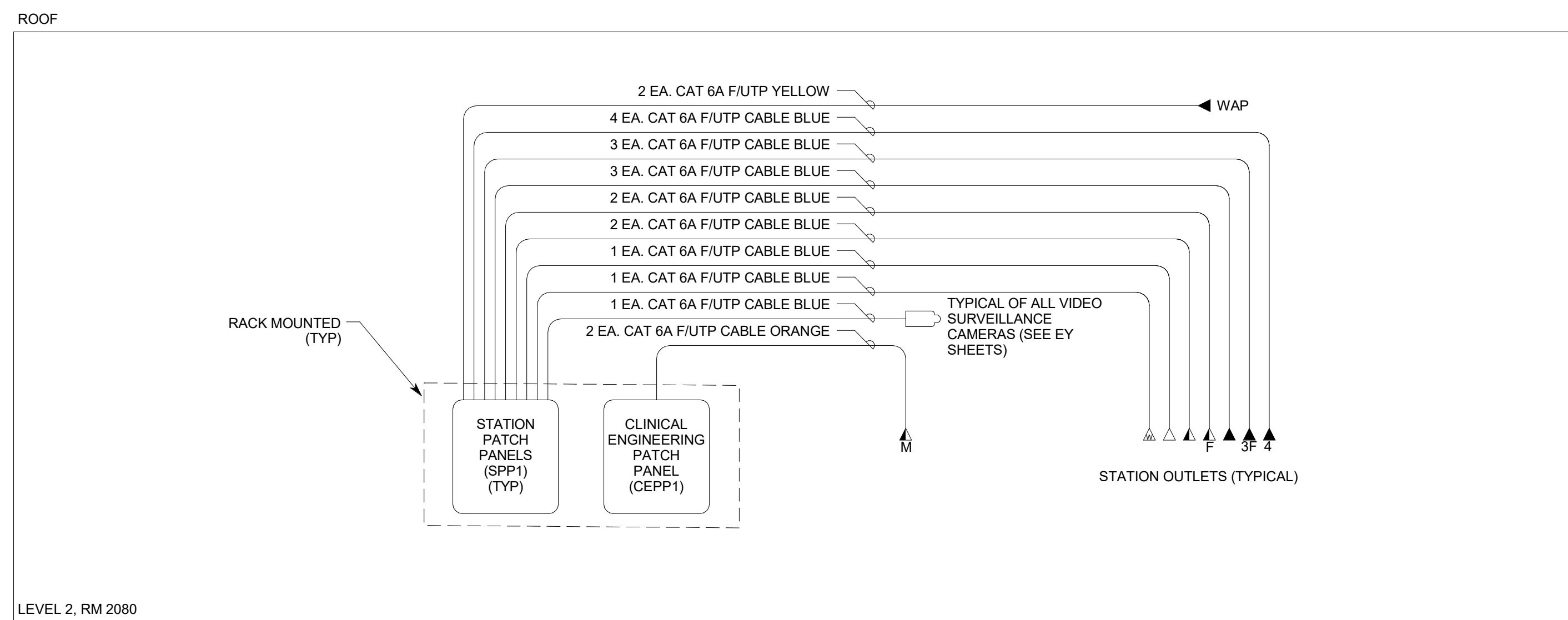
VCBO NUMBER: 20320  
CLIENT NUMBER:  
DATE: OCT. 30 2020

**MCKAY-DEE AMBULATORY SURGERY CENTER EXPANSION**

INTERMOUNTAIN HEALTHCARE  
3895 MEDICAL DRIVE, OGDEN, UTAH 84403

CONSTRUCTION DOCUMENTS

TELECOM RISER DIAGRAMS



**A1 TELECOM CABLE RISER DIAGRAM**

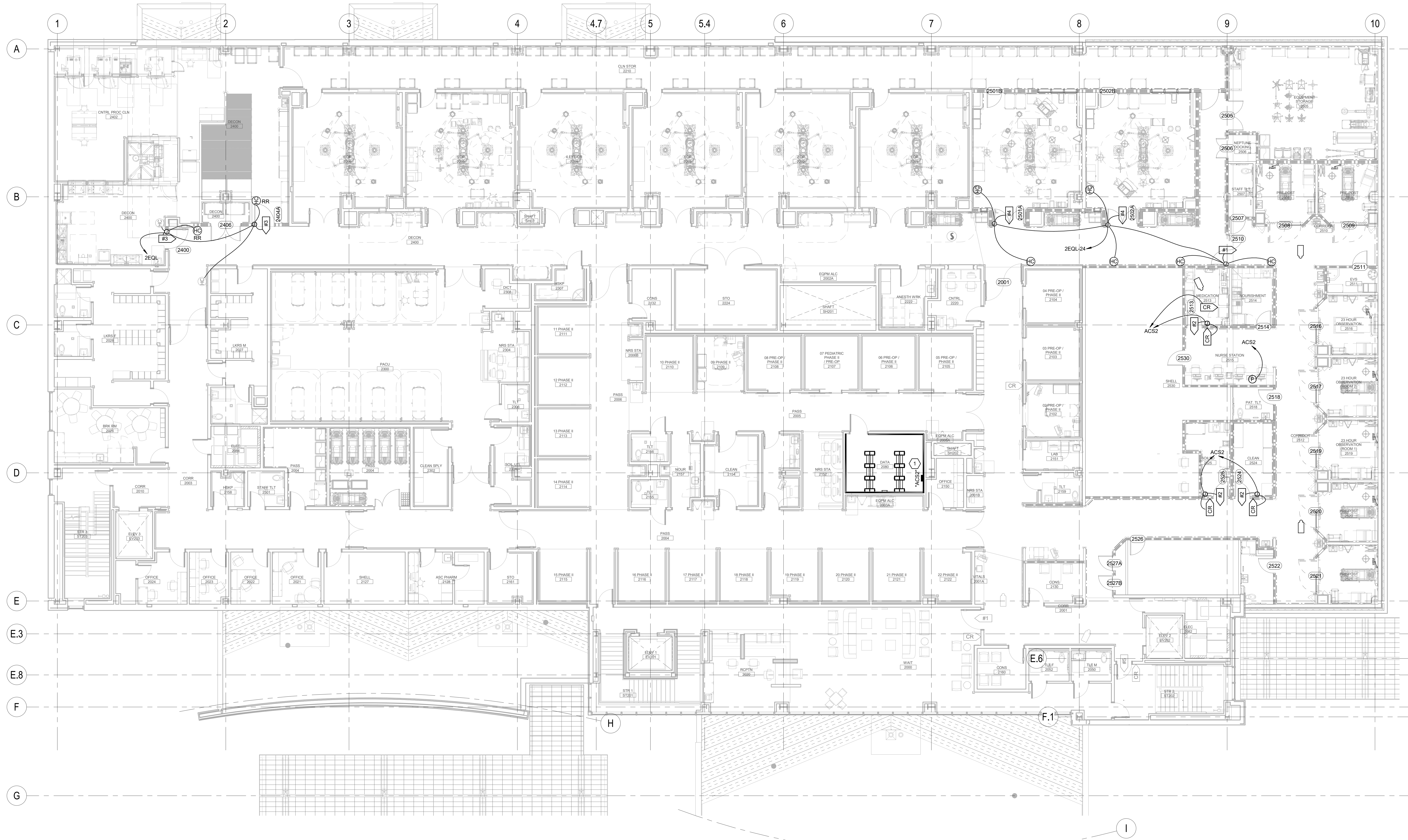
NO SCALE



SHEET KEYNOTES	GENERAL SHEET NOTES

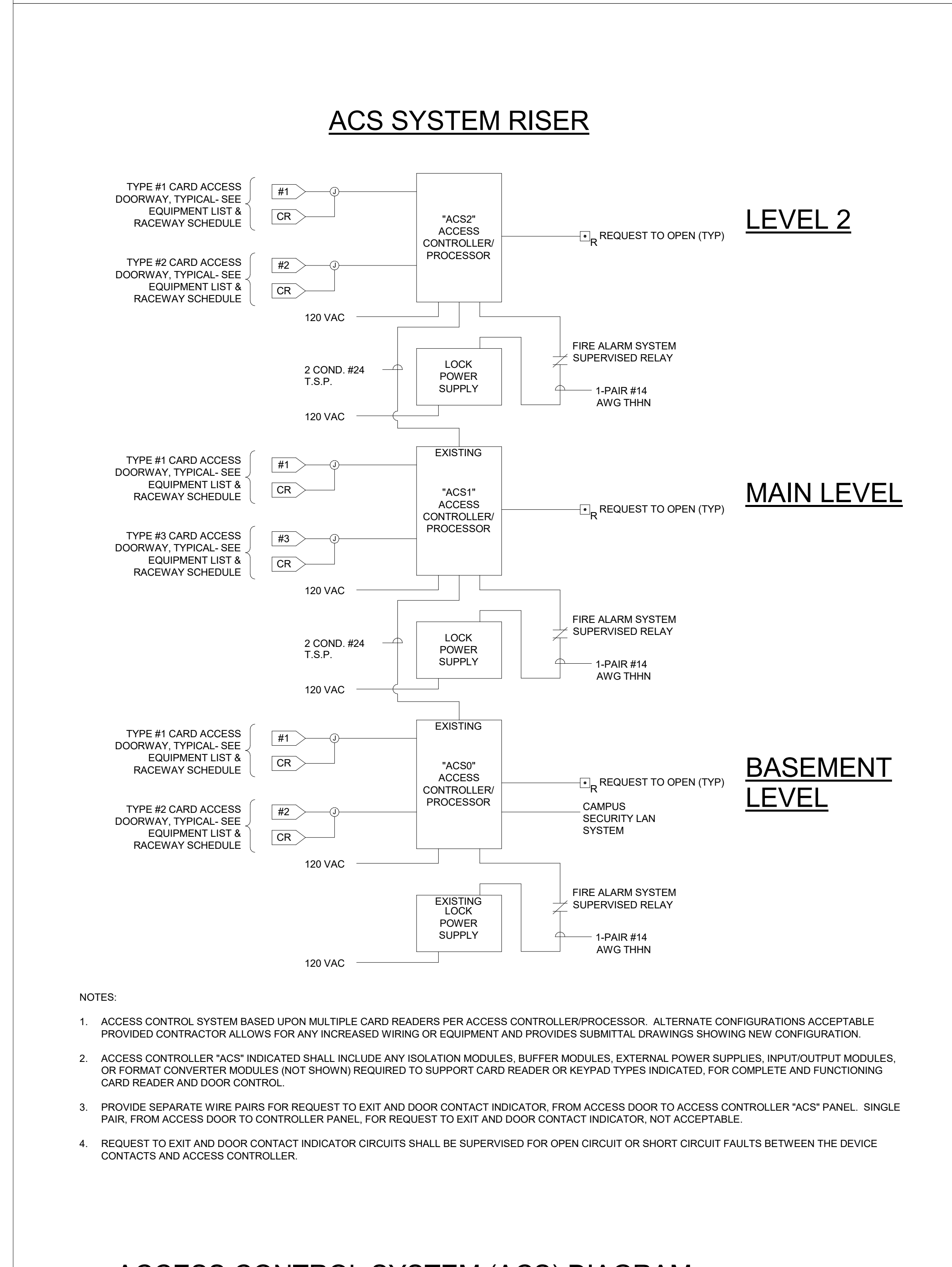
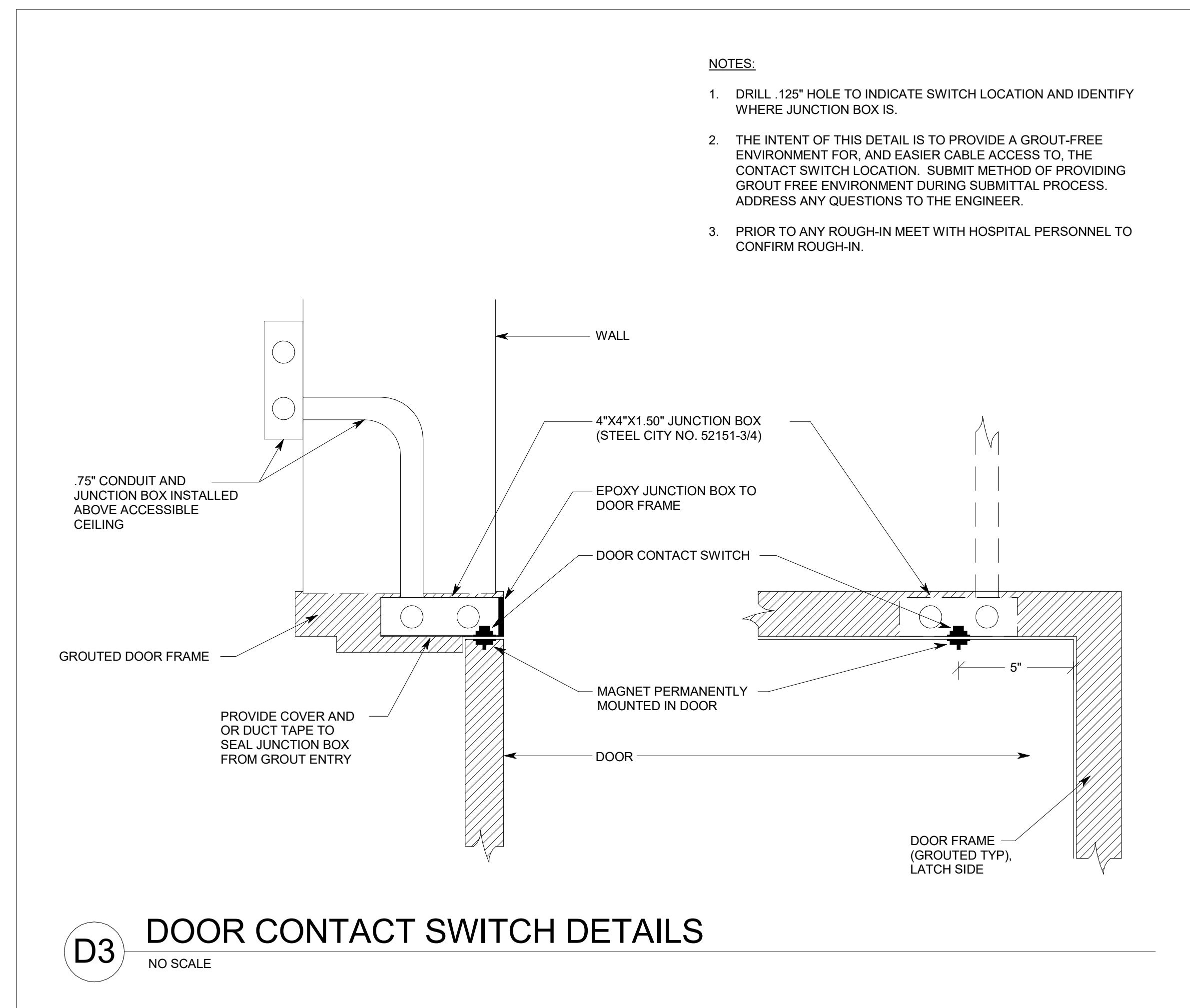
REV	DATE	DESCRIPTION

VCBO NUMBER: 20320  
CLIENT NUMBER:  
DATE: OCT. 30 2020



**1 LEVEL 2 AUXILIARY PLAN**  
SCALE: 1/8" = 1'-0"

C:\Users\baal\Documents\200446 ELEC CENTRAL\_baal\F07.rvt



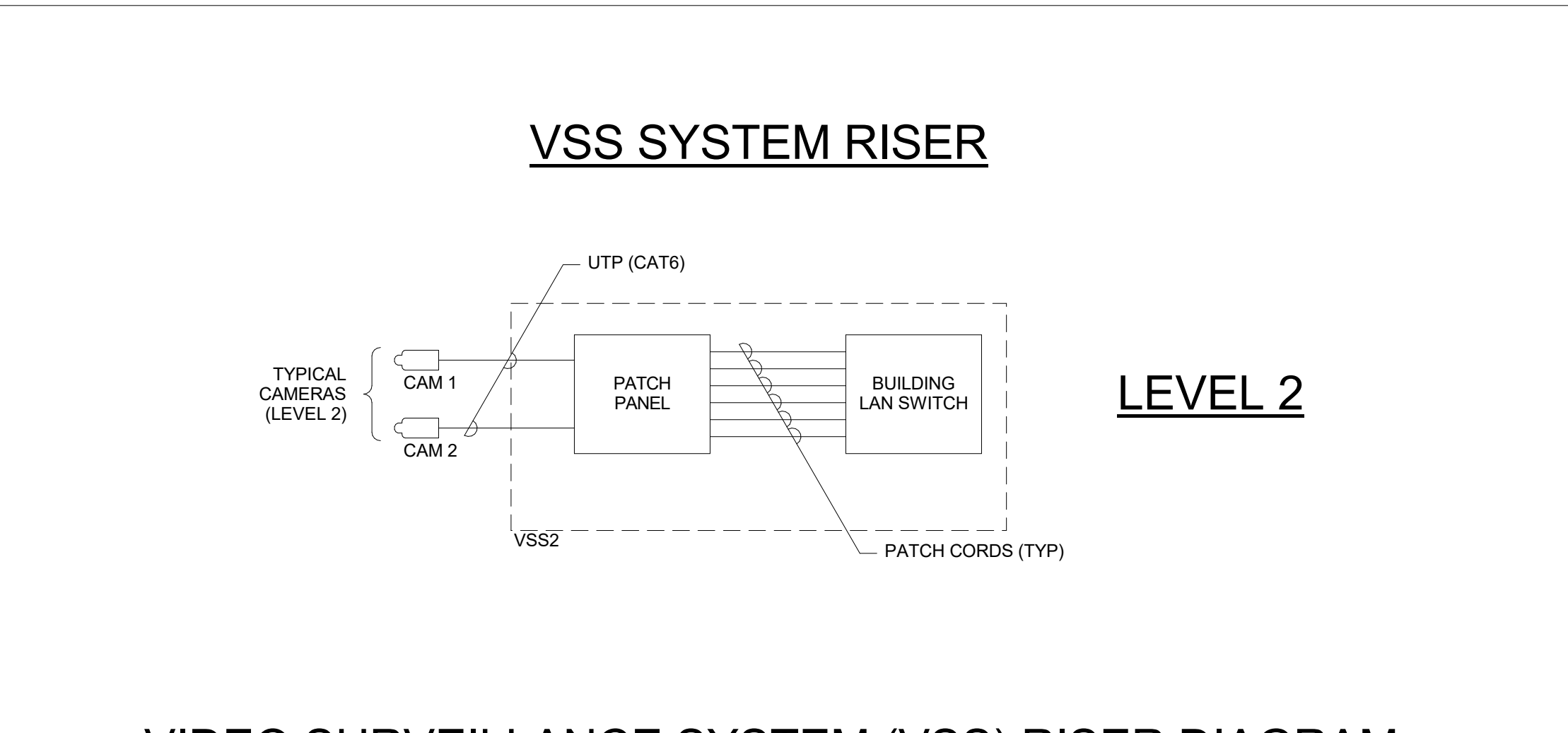
**SECURITY EQUIPMENT SCHEDULE**

SYMBOL	DESCRIPTION	MOUNTING *	ROUGH-IN	QTY	ACCEPTABLE TYPES
CR	CARD READER	40"	4SQ W/ 1G RINGS	OFF	SEE SECTION 281300
#1	CARD ACCESS DOOR TYPE, TYPICAL. REFER TO CARD ACCESS DOOR TYPE SCHEDULE & SECTION 281300	SEE SCHEDULE	SEE SCHEDULE	OFF	REFER TO CARD ACCESS DOOR TYPE SCHEDULE & SECTION 281300
P	PANIC BUTTON	DESK	SURFACE MOUNT	OFF	SEE SECTION 281300
#1	VSS CAMERA/ENCLOSURE TYPE, TYPICAL. REFER TO VSS CAMERA/ENCLOSURE TYPE SCHEDULE	SEE SCHEDULE	SEE SCHEDULE	OFF	SEE VSS CAMERA/ENCLOSURE TYPE SCHEDULE
ACS	CARD ACCESS CONTROLLERS & PWR SUPPLIES	72"	4"x4" GLUTTER & STUBS A/R	A/R	SEE SECTION 281300
VSS	VIDEO SURVEILLANCE SYSTEM	RACK MOUNTED			COORDINATE WITH OWNER
SCP	SYSTEM ARM/ DISARM PANEL	WALL @ +48"	SINGLE GANG	1	DSX
SEC	SECURITY PANEL (PHARMACY)	WALL	SURFACE MOUNT	1	DSX

\* COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS BEFORE INSTALLATION.

**VSS CAMERA SCHEDULE**

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



**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
- ASR = 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
- OPP = OBTAIN FROM PLANS
- PB = PUSH BUTTON RELEASE
- PH = PANIC HARDWARE
- PP = PUSH PAD ACTUATOR
- PS = POWER SUPPLY
- PED = POE EXIT DEVICE
- PEL = POE ELECTRIC LOCKSET
- 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		DOUBLE DOOR, W/ AUTO OPENER AND 2 ACTUATORS FRAME POWER TRANSFER			ELECTRIC EXIT DEVICE	SECURITY CONTRACTOR PROVIDES: • CR, FH, DH HARDWARE CONTRACTOR PROVIDES: • EED, EPT, ADA, LPS, FH, DH, AO LOCK CONTROLLED BY: • ADA
TYPE 2		SINGLE DOOR, 1 CARD READER ELECTRIC HINGE POWER TRANSFER			ELECTRIC LOCKSET	SECURITY CONTRACTOR PROVIDES: • CR, FH, DH HARDWARE CONTRACTOR PROVIDES: • EL, EH, LPS LOCK CONTROLLED BY: • CR
TYPE 3		SINGLE DOOR, WITH AUTO OPENER AND 2 ACTUATORS			ELECTRIC STRIKE	SECURITY CONTRACTOR PROVIDES: • CR, FH, DH HARDWARE CONTRACTOR PROVIDES: • ES, LPS, ADA, AO LOCK CONTROLLED BY: • ADA
TYPE 4		DOUBLE DOOR, W/ AUTO OPENER AND 2 ACTUATORS FRAME POWER TRANSFER			ELECTRIC STRIKE	SECURITY CONTRACTOR PROVIDES: • ES, EPT, ADA, LPS, FH, DH, AO LOCK CONTROLLED BY: • ADA



REV	DATE	DESCRIPTION

VCBO NUMBER: 20320  
CLIENT NUMBER:  
DATE: OCT. 30 2020

**MCKAY-DEE AMBULATORY SURGERY CENTER EXPANSION**  
INTERMOUNTAIN HEALTHCARE  
3895 MEDICAL DRIVE, OGDEN, UTAH 84403  
CONSTRUCTION DOCUMENTS