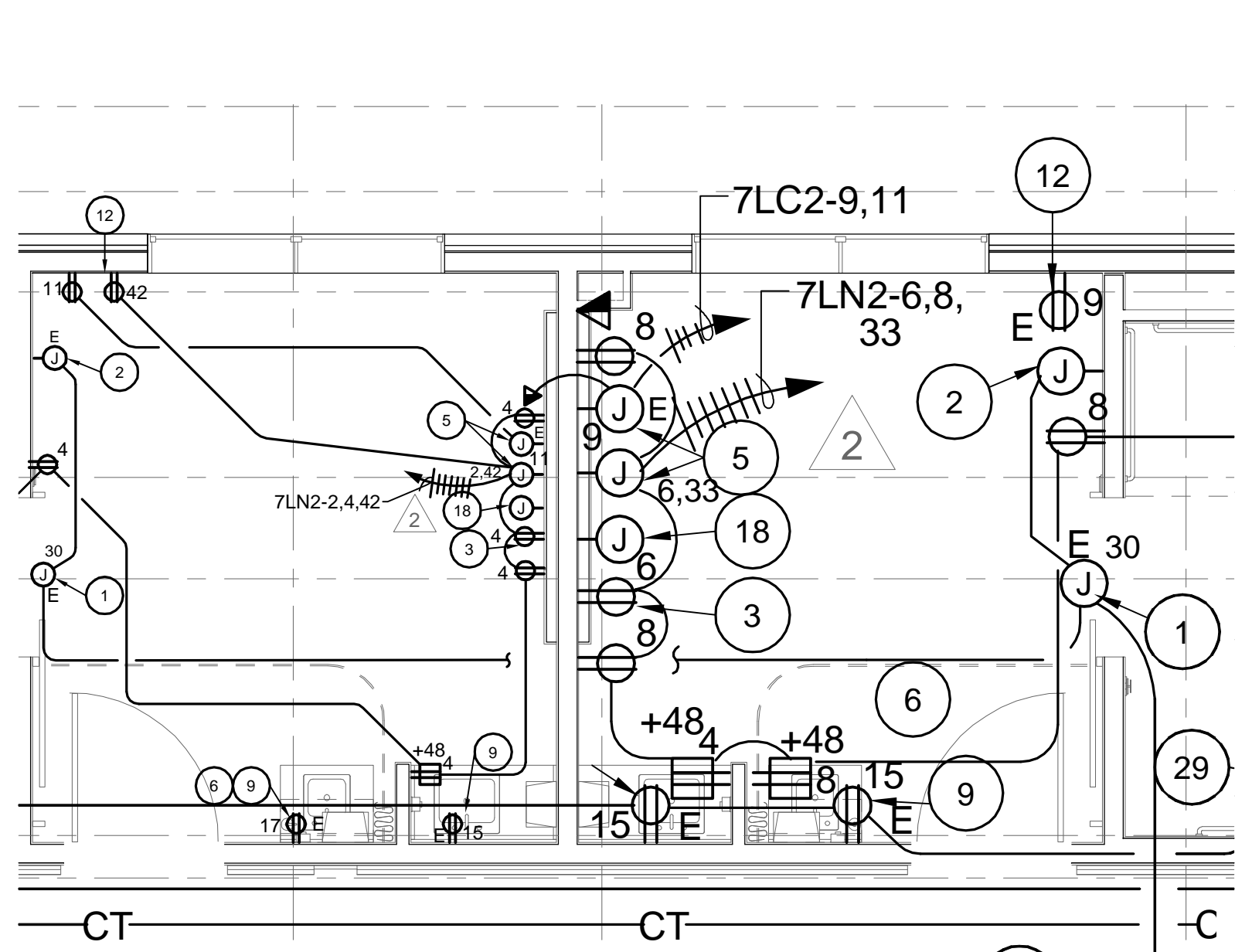
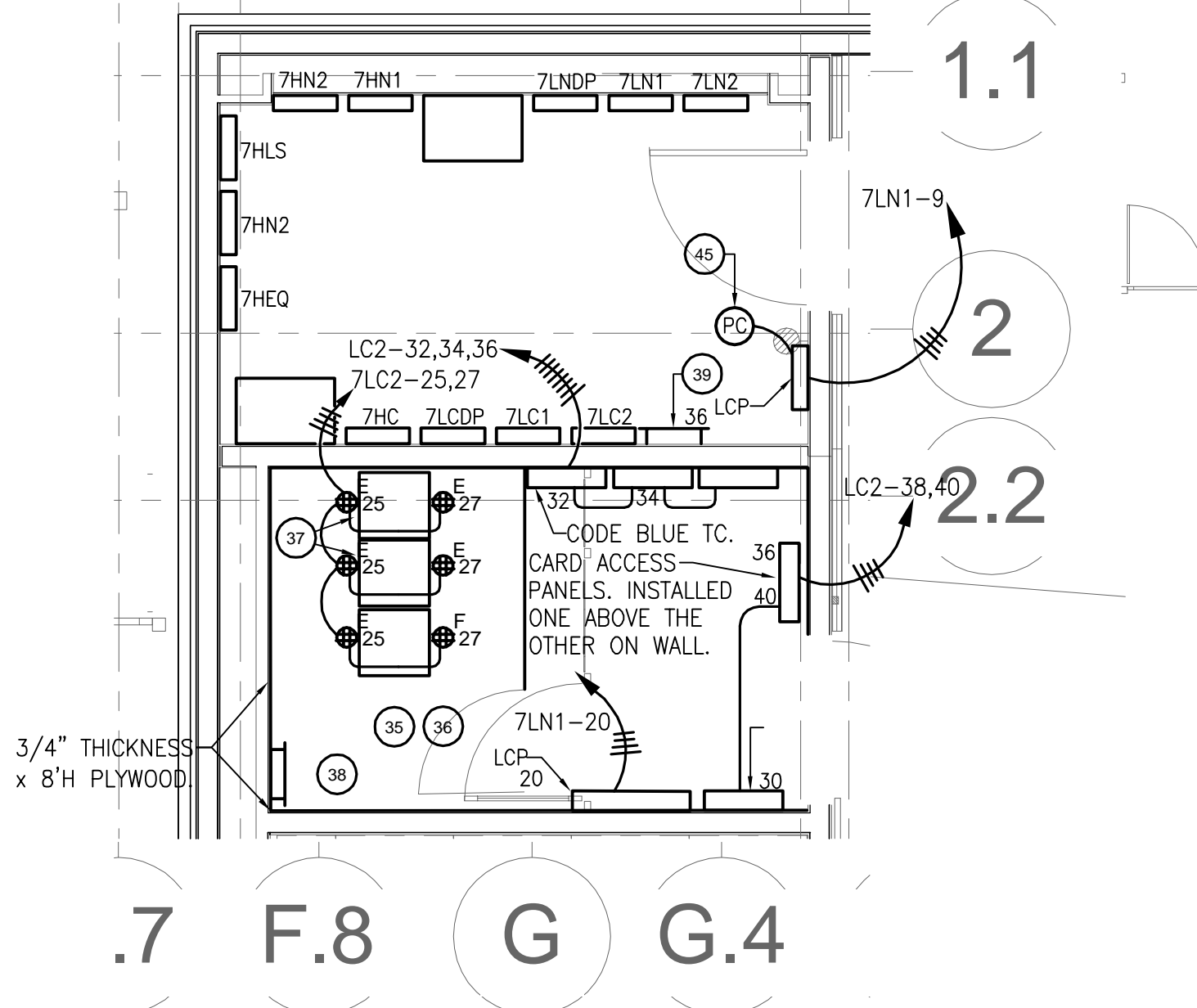


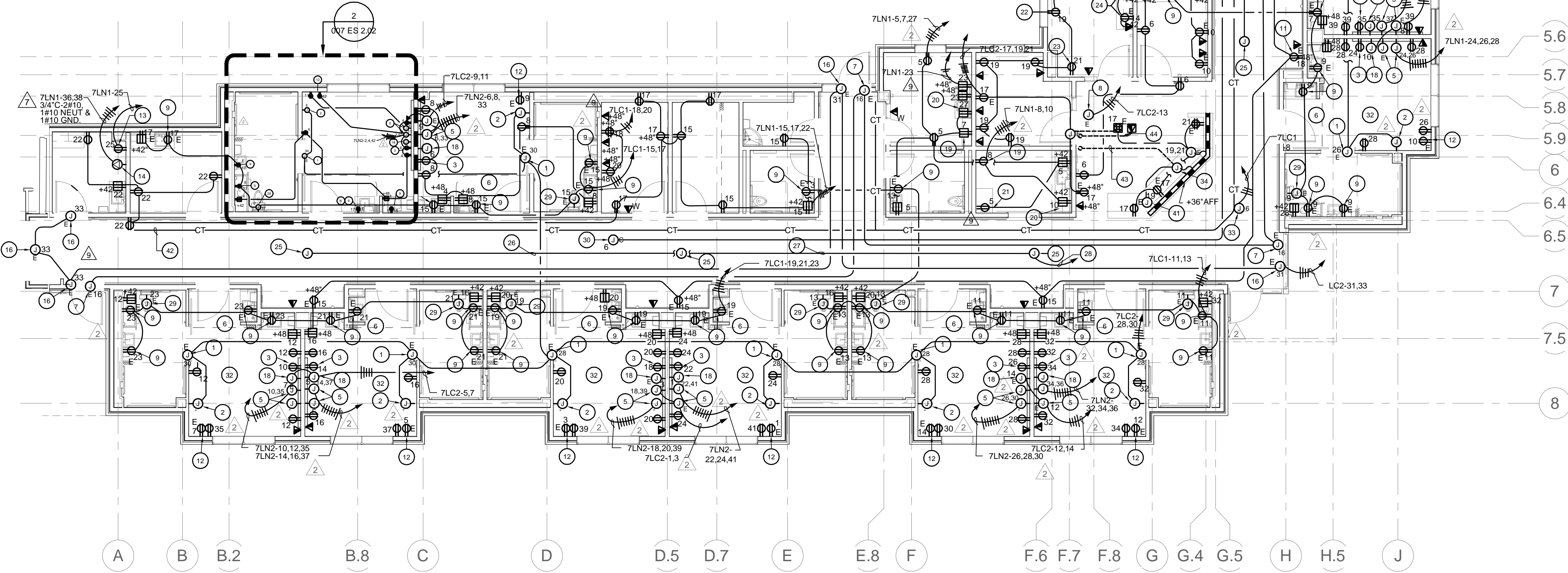
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



3 ENLARGED PLAN - SCI BED 102
007 ES 2.02 SCALE: 1/4" = 1'-0"



2 ENLARGED ELECT. ROOM/IT ROOM
007 ES 2.02 SCALE: 1/4" = 1'-0"



1 ELECTRICAL POWER & DATA/PHONE FLOOR PLAN
007 ES 2.02 SCALE: 1/8" = 1'-0"

KEYED NOTES:

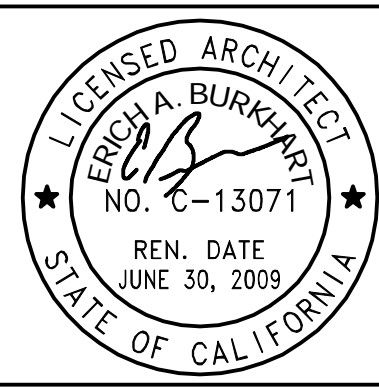
- J-BOX FOR POWER CONNECTION TO AUTOMATIC SLIDING DOOR. VERIFY EXACT LOCATION ON JOBSITE (120V, 3.15A ASSUMED)
- J-BOX FOR AUTOMATIC SLIDING DOOR CONTROL. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- RECEPTACLE OUTLET FOR TV. INSTALL NEXT TO TV BRACKET. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- PRINTER (120V, 5A ASSUMED)
- J-BOX FOR POWER CONNECTION TO HEADWALL. VERIFY EXACT LOCATION WITH HEADWALL MANUFACTURER.
- SEE SCI BED 102 FOR TYPICAL WIRING.
- J-BOX FOR POWER CONNECTION TO POWER SUPPLY FOR CARD-READER. COORDINATE EXACT LOCATION ON JOBSITE.
- J-BOX FOR POWER CONNECTION TO MEDICAL GAS ALARM PANEL.
- RECEPTACLE FOR AUTO-SENSOR. MOUNT BELOW SINK. COORDINATE EXACT LOCATION ON JOBSITE.
- J-BOX FOR POWER CONNECTION TO IRRIGATION CONTROLLER. (120V, 2A ASSUMED)
- CRASH CART (120V, 1.5A ASSUMED)
- RECEPTACLE FOR POWER CONNECTION TO PATIENT LIFT. INSTALL HIGH ON WALL. VERIFY EXACT LOCATION ON JOBSITE (120V, 1.5A ASSUMED)
- WASHER (120V, 400W)
- NEMA 14-30R OUTLET FOR ELECTRICAL DRYER (220V, 30A)
- NOT USED.
- J-BOX FOR POWER CONNECTION TO AUTOMATIC DOOR. VERIFY EXACT LOCATION ON JOBSITE. (120V, 5A ASSUMED)
- FLAT SCREEN TV. INSTALL NEXT TO TV OUTLET. (120V, 2A ASSUMED)
- JUNCTION BOX FOR DATA/PHONE CONNECTION TO HEADWALL. VERIFY EXACT LOCATION ON JOBSITE. PROVIDE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
- REFRIGERATOR (120V, 8A ASSUMED)
- MICROWAVE (120V, 900W ASSUMED)
- ICE MAKER (120V, 6A ASSUMED)
- SHREDDER
- PRINTER/COPIER/FAX (120V, 5A ASSUMED)
- PRINTER (120V, 5A ASSUMED)
- DATA SYSTEM WIRELESS ACCESS POINT
- 3/4"C-(1)D1
- 1"C-(2) D1
- 1-3/4"C-(3) D1 TO DATA/PHONE RACK IN IT ROOM
- JUNCTION BOX FOR POWER CONNECTION TO AUTOMATIC FLUSH VALVE. VERIFY EXACT LOCATION ON JOBSITE.
- JUNCTION BOX FOR POWER CONNECTION TO FSD'S. PROVIDE INDIVIDUAL DISCONNECTING MEANS AT EACH FSD. COORDINATE LOCATION & QUANTITY OF FSD'S WITH FIRE ALARM & MECHANICAL DRAWINGS.
- RECEPTACLE ON DATA/PHONE RACK.
- SEE SCI BED G-102 & G-103 FOR TYPICAL CIRCUITING.
- JUNCTION BOX FOR POWER CONNECTION TO VAV BOXES. PROVIDE DISCONNECTING MEANS AT EACH VAV BOX. COORDINATE LOCATION & QUANTITY WITH MECHANICAL DRAWINGS.
- JUNCTION BOX FOR DATA/PHONE CONNECTION.
- RACK FOR GUEST NETWORK SYSTEM SHALL BE LOCKABLE
- TYPICAL-INSTALL RECEPTACLE OUTLET ON DATA RACK. COORDINATE INSTALLATION WITH RACK MANUFACTURER
- PROVIDE UPS IN EACH RACK FOR EQUIPMENT COMMUNICATION.
- MAIN GROUND BUS BAR FOR LOW VOLTAGE SYSTEMS. PROVIDE MINIMUM 1#6 AWG IN 3/4" CONDUIT FROM MAIN GROUND BUS TO EQUIPMENT RACKS.
- MAIN GROUND BUS BAR. BOND TO MAIN ELECTRICAL GROUND USING #4/0 AWG COPPER CONDUCTOR.
- 3/4"C-2#10 & 1#10 GND CONTINUE TO THE OUTDOOR UNIT 7/CU-1 ON ROOF. SEE SHEET 007 ES 2.31 FOR CONTINUATION.
- J-BOX FOR POWER CONNECTION TO TASK LIGHTING (F5). COORDINATE EXACT LOCATION ON JOBSITE.
- CABLE TRAY FOR DATA/PHONE SYSTEM.
- 2" - CONDUIT
- 3/4" - CONDUIT
- PHOTOCELL INSTALL AT 18" ABOVE ROOF, FACING NORTH.

RECORD DRAWING
THESE RECORD DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CONSULTANT HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

CONSTRUCTION DOCUMENTS FULLY SPRINKLERED

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9 Bulletin #8	5/01/2013
3 As Built	07/10/15
2 Addendum 1	07/28/11

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Drawing Title
POWER & DATA/PHONE FLOOR PLAN & ENLARGED ELECTRICAL ROOM
Approved Project Director
Date:

Project Title
**VA Palo Alto Healthcare System
Spinal Cord Injury Replacement
Unit**
Location
3801 Miranda Avenue, Palo Alto
Date
07-10-2015
Checked
TB
Drawn
MT

Project Number
640-380
Building Number
007
Drawing Number
007 ES 2.02
Dwg. of.

**Office of
Facilities
Management**



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one inch = one foot

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one eighth inch = one foot

Panel: 7HC		Bus Rating (Amps): 100									
Main: MLD		Volts (L-L): 480									
Enclosure: NEMA-1		Phase: 3									
AC Rating: 22,000		Wires: 4									
Ckt	Description	Load (kVA)	OC Device Amps	Poles	Phase	OC Device Amps	Poles	Load (kVA)	Load Type	Description	Ckt
1	SPARE	20	1	A	20	1	0.96	1	LIGHTING		2
3	SPARE	20	1	B	20	1	1.20	1	LIGHTING - SOI BED		4
5	SPARE	20	1	A	20	1	1.90	1	LIGHTING - SOI BED		6
7	SPARE	20	1	A	20	1	1.90	1	SPARE		8
9	SPARE	20	1	B	20	1	2.0	1	SPARE		10
11	SPARE	20	1	A	20	1	2.0	1	SPARE		12
13	SPARE	20	1	A	20	1	2.0	1	SPARE		14
15	SPARE	20	1	B	20	1	2.0	1	SPARE		16
17	SPARE	20	1	A	20	1	2.0	1	SPARE		18
19	SPACE								SPACE		20
21	SPACE				B				SPACE		22
23	SPACE				C				SPACE		24
25	SPACE				A				SPACE		26
27	SPACE				A				SPACE		28
29	SPACE				C				SPACE		30
31	SPACE				A				SPACE		32
33	SPACE				B				SPACE		34
35	SPACE				A				SPACE		36
37	SPACE				A				SPACE		38
39	SPACE				B	125	3	15.36	7	PANEL - 7LCOP (THRU TRANS 7TCT)	40
41	SPACE				C			15.36	7	PANEL - 7LCOP (THRU TRANS 7TCT)	42
TOTAL (kVA)											
						16.32	16.56	17.28			
LOAD TYPE (NUMBER)											
LOAD TYPE (DESCRIPTION)											
TOTAL CONNECTED LOAD (kVA)											
DEMAND MULTIPLIER:											
		1.00	1.25	formula	1.00	1.25	1.00	1.00	1.00		
TOTAL DESIGN LOAD											
TOTAL AMP											
NOTE:											
*Type 2 (receptacles) formula is as follows: If the Total Connected Load is greater than 100kVA, Then the demand load is ((Connected Load - 10) * .5) +10, Else Demand Load equals Connected Load.											

Panel: 7HN2		Bus Rating (Amps): 100										
Main: MLD		Volts (L-L): 480										
Enclosure: NEMA-1		Phase: 3										
AC Rating: 22,000		Wires: 4										
Ckt	Description	Load Type	Load (kVA)	OC Device Amps	Poles	Phase	OC Device Amps	Poles	Load (kVA)	Load Type	Description	Ckt
1	LIGHTING - SOI BEDS	20	1	20	1	A	20	1	0.80	1	SPARE	2
3	LIGHTING - SOI BEDS	20	1	20	1	B	20	1	1.20	1	SPARE	4
5	LIGHTING	20	1	20	1	A	20	1	1.90	1	SPARE	6
7	LIGHTING - CORRIDOR, NURSES STAT.	20	1	20	1	A	20	1	1.50	1	SPARE	8
9	LIGHTING - CORRIDOR	20	1	20	1	B	20	1	1.70	1	SPARE	10
11	EXTERIOR LIGHTING	20	1	20	1	C	20	1	1.00	1	SPARE	12
13	SPARE	20	1	20	1	A	20	1	2.0	1	SPARE	14
15	SPARE	20	1	20	1	B	20	1	2.0	1	SPARE	16
17	SPARE	20	1	20	1	A	20	1	2.0	1	SPARE	18
19	SPARE	20	1	20	1	A	20	1	2.0	1	SPARE	20
21	SPARE	20	1	20	1	A	20	1	2.0	1	SPARE	22
23	SPARE	20	1	20	1	B	20	1	2.0	1	SPARE	24
25	SPARE	20	1	20	1	A	20	1	2.0	1	SPARE	26
27	SPARE	20	1	20	1	B	20	1	2.0	1	SPARE	28
29	SPARE	20	1	20	1	A	20	1	2.0	1	SPARE	30
31	SPARE	20	1	20	1	A	20	1	2.0	1	SPARE	32
33	SPARE	20	1	20	1	B	20	1	2.0	1	SPARE	34
35	SPARE	20	1	20	1	A	20	1	2.0	1	SPARE	36
37	SPARE	20	1	20	1	A	20	1	2.0	1	SPARE	38
39	SPARE	20	1	20	1	B	20	1	2.0	1	SPARE	40
41	SPARE	20	1	20	1	C	20	1	2.0	1	SPARE	42
TOTAL (kVA)							2.30	3.40	2.90			
LOAD TYPE (NUMBER)												
LOAD TYPE (DESCRIPTION)												
TOTAL CONNECTED LOAD (kVA)		0 P.M. L	1 Lighting	2 Recept	3 Motors	4 L. Mot.	5 Kitchen	6 Elevator	7 Equip	8 Total		
		0.00	8.60	0.00	0.00	0.00	0.00	0.00	0.00	8.60		
DEMAND MULTIPLIER:		1.00	1.25	formula	1.00	1.25	1.00	1.00	1.00			
TOTAL DESIGN LOAD		0.00	10.75	0.00	0.00	0.00	0.00	0.00	0.00	10.75 kVA		
TOTAL AMP										12.93 A		
NOTE:												
*Type 2 (receptacles) formula is as follows: If the Total Connected Load is greater than 100KVA, Then the demand load is ((Connected Load - 10) * .5) +10, Else Demand Load equals Connected Load.												

Panel: 7LN1		Bus Rating (Amps): 125									
Main: MLD		Volts (L-L): 208									
Enclosure: NEMA-1		Phase: 3									
AC Rating: 14,000		Wires: 4									
Ckt	Description	Load Type	Load (kVA)	OC Device Amps Poles	Phase	OC Device Amps Poles	Load Type	Description	Ckt		
1	RECEPTACLES	2	0.80	20 1	A	20 1	0.80	2	RECEPTACLES	2	
3	RECEPTACLES	2	0.90	20 1	B	20 1	0.90	2	RECEPTACLES	4	
5	RECEPTACLES	2	1.62	20 1	C	20 1	0.90	2	RECEPTACLES	6	
7	REFRIGERATOR	2	0.96	20 1	A	20 1	0.96	2	REFRIGERATOR	8	
9	LCP	7	0.60	20 1	B	20 1	1.00	2	MICROWAVE	10	
11	SPARE	20	1	A	20	20 1	0.96	2	REFRIGERATOR	12	
13	SPARE	20	1	A	20	20 1	1.00	2	MICROWAVE	14	
15	RECEPTACLES	2	0.72	20 1	B	20 1	0.28	1	VAULT - LIGHTING & RECEPT	16	
17	RECEPTACLES	2	0.72	20 1	C	20 1	0.10	7	FIRE SPRINKLER BELL	18	
19	RECEPTACLES	2	0.90	20 1	A	20 1	0.60	7	MATV-TC	20	
21	PRINTER/COPPER/FAX	2	1.00	20 1	B	20 1	0.12	2	RECEPTACLES	22	
23	RECEPTACLES	2	0.36	20 1	C	20 1	0.72	2	RECEPT-SOI BED	24	
25	WASHER	7	0.40	20 1	A	20 1	0.72	2	RECEPT-SOI BED	26	
27	MICROWAVE	2	1.00	20 1	B	20 1	0.90	2	RECEPT-SOI BED	28	
29	RECEPT-SOI BED	2	0.72	20 1	A	20	1	0.72	20	SPARE	30
31	RECEPT-SOI BED	2	0.72	20 1	B	20	1	0.72	20	SPARE	32
33	RECEPT-SOI BED	2	0.90	20 1	C	20	1	2.50	7	ELECTRIC DRIVER	34
35	RECEPT-SOI BED	2	0.72	20 1	A	20	1	2.50	7	ELECTRIC DRIVER	36
37	RECEPT-SOI BED	2	0.72	20 1	B	20	1	3.64	4	VAULT - FOUNTAIN PUMP	38
39	RECEPT-SOI BED	2	0.90	20 1	C	20	1	3.64	4	VAULT - FOUNTAIN PUMP	40
41	SPARE	20	1								
TOTAL (kVA)											
LOAD TYPE (NUMBER)											
LOAD TYPE (DESCRIPTION)											
TOTAL CONNECTED LOAD (kVA)											
DEMAND MULTIPLIER:											
TOTAL DESIGN LOAD											
TOTAL AMP											
NOTE:											
*Type 2 (receptacles) formula is as follows: If the Total Connected Load is greater than 10KVA, Then the demand load is ((Connected Load - 10) * .5) +10, Else Demand Load equals Connected Load.											

LIGHTING CONTROL PANEL-LCP					REMARKS
INPUT TYPE	RELAY NO.	CIRCUIT #	ROOM OR AREA CONTROLLED		
ASTRONOMICAL CLOCK, SWITCH	a	7HN2-7	CORRIDOR 143		
SPARE	c				
ASTRONOMICAL CLOCK, SWITCH	e	7HN2-7	NURSE STATION G-115		
ASTRONOMICAL CLOCK, SWITCH	f	7HN2-9	CORRIDOR 150		
ASTRONOMICAL CLOCK, SWITCH	g	7HN2-9	CORRIDOR 150		
PHOTOCELL	a	7HN2-11	EXTERIOR LIGHTING		
SPARE					FUTURE
SPARE					FUTURE
SPARE					FUTURE
SPARE					FUTURE

Panel:	7HN1						Bus Rating (Amps):		400							
Main:	400/3P MAIN BREAKER						Volts (L-L):		480							
Enclosure:	NEMA-1						Phase:		3							
AC Rating:	22,000						Wires:		4							
Ckt	Description	Load Type	Load (kVA)	OC Device	Amps	Poles	Phase	OC Device	Amps	Poles	Load (kVA)	Load Type	Description	Ckt		
1	PANEL - 7LNDP (THRU TRANS-7TCT)	7	13.30	125	3	A	B	C	60	3			SPARE	2		
3	PANEL - 7LNDP (THRU TRANS-7TCT)	7	13.30												SPARE	4
5	PANEL - 7LNDP (THRU TRANS-7TCT)	7	13.30												SPARE	6
7	PANEL - 7HN2	7	3.58										TVSS	8		
9	PANEL - 7HN2	7	3.58	100	3								TVSS	10		
11	PANEL - 7HN2	7	3.58										TVSS	12		
13	SPARE	20	1										SPARE	14		
15	SPARE	20	1										SPARE	16		
17	SPARE	20	1										SPARE	18		
19	SPARE	20	1				A	B	C				SPARE	20		
21	SPARE	20	1					B	C				SPARE	22		
23	SPARE	20	1						C				SPARE	24		
25	SPARE	20	1				A	B	C				SPARE	26		
27	SPARE	20	1					B	C				SPARE	28		
29	SPARE	20	1					A	C				SPARE	30		
31	SPARE	20	1										SPARE	32		
33	SPARE	20	1				A	B	C				SPARE	34		
35	SPARE	20	1					A	C				SPARE	36		
37	SPARE	20	1										SPARE	38		
39	SPARE	20	1										SPARE	40		
41	SPARE	20	1										SPARE	42		
TOTAL (kVA)								22.97	22.97	22.97						
LOAD TYPE (NUMBER)																
LOAD TYPE (DESCRIPTION)																
TOTAL CONNECTED LOAD (kVA)		P.Lt.	Lt.	1	2	3	4	5	6	7	8	9	10	11	12	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
DEMAND MULTIPLIER:		1.00	1.25	formula	1.00	1.25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
TOTAL DESIGN LOAD		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.91	66.91	66.91	kVA	66.91	66.91	
TOTAL AMP															82.89	Amp
NOTE:																
*Type 2 (receptacles) formula is as follows: if the Total Connected Load is greater than 100kVA, then the demand load is (Connected Load - 10) * .5 +10; i.e Demand Load equals Connected Load.																