

MOTOR AND EQUIPMENT SCHEDULE-PHASE 1																				
MOTOR NO	DESCRIPTION OF MOTOR OR EQUIPMENT	LOCATION (ROOM NO)	LOAD IN HORSEPOWER (HP) OR FULL LOAD AMPS (FLA)	VOLTAGE, PHASE	PANEL AND CIRCUIT NUMBER OR MCC NUMBER	CONDUCTOR SIZE AND QUANTITY	GROUND CONDUCTOR SIZE	CONDUIT SIZE	CONTROLLER				DISCONNECT			CONTROL OR AUXILIARY DEVICE (SEE NOTES)				
									MAGNETIC STARTER/DISCONNECT STARTER SIZE	VARIABLE FREQUENCY DRIVE	MANUAL MOTOR CONTROLLER	TOGGLE SWITCH	DISCONNECT SIZE	FUSIBLE / NON FUSIBLE	NEMA RATING	DISCONNECT BY (DIV. NO.)	VFD	TIME SWITCH	THERMOSTAT	AMSTAT
1	DAU-5 INDOOR	BC-50	125 MCA	208, 3	EB4602-1,3,5	3 #1	#6	1-1/2"												
2	DAU-6 INDOOR	BC-90	125 MCA	208, 3	EB4602-7,9,11	3 #1	#6	1-1/2"												
3	DAU-8 OUTDOOR	1ST FLR ROOF	29 MCA	208, 3	EB4602-2,4,6	3 #10	#10	3/4"												
4	DAU-9 OUTDOOR	1ST FLR ROOF	29 MCA	208, 3	EB4602-8,10,12	3 #10	#10	3/4"												
5	M-EF-124	BLDG 1 ROOF	FRAC	120, 1	EXISTING CIRCUIT	2 #12	#12	3/4"												
6	M-EF-125	BLDG 1 ROOF	FRAC	120, 1	EXISTING CIRCUIT	2 #12	#12	3/4"												
7	M-AHU-4 SUPPLY FAN SF-4	PENTHOUSE	25 HP	208, 3	EB4653-19,21,23	3 #2	#6	1-1/2"												
8	M-AHU-4 RETURN FAN RF-4	PENTHOUSE	10 HP	208, 3	EB4653-13,15,17	3 #8	#10	1"												
9	M-AHU-64	BB-34	(4) 7.5 HP	208, 3	EB9091-NEW 125A/3P	3 #2	#6	1-1/2"												
10	M-AHU-4 SUPPLY FAN SF-4A	PENTHOUSE	25 HP	208, 3	EB4653-2,4,6	3 #4	#8	1-1/4"												
11	40-CIM-1	BLDG 40 LINK	FRAC	120, 1	EB401N1-EXISTING 20A/1P	2 #12	#12	3/4"												
12	40-HMP-3	BLDG 40 RM 112	1.5 HP	208, 3	EXISTING CIRCUIT	3 #12	#12	3/4"												
13	40-HMP-4	BLDG 40 RM 112	1.5 HP	208, 3	EXISTING CIRCUIT	3 #12	#12	3/4"												

NOTES FOR AUXILIARY CONTROL DEVICE  
1. ELECTRICAL CONTRACTOR TO FURNISH, SET, AND WIRE AUXILIARY CONTROL DEVICE  
2. ELECTRICAL CONTRACTOR TO SET, AND WIRE AUXILIARY CONTROL DEVICE FURNISHED BY OTHERS  
3. ELECTRICAL CONTRACTOR TO WIRE AUXILIARY CONTROL DEVICE FURNISHED AND SET BY OTHERS  
4. ELECTRICAL CONTRACTOR TO PROVIDE DUCT DETECTOR, FAN RELAY AND CONNECT TO FA SYSTEM

MOTOR AND EQUIPMENT SCHEDULE-PHASE 3																				
MOTOR NO	DESCRIPTION OF MOTOR OR EQUIPMENT	LOCATION (ROOM NO)	LOAD IN HORSEPOWER (HP) OR FULL LOAD AMPS (FLA)	VOLTAGE, PHASE	PANEL AND CIRCUIT NUMBER OR MCC NUMBER	CONDUCTOR SIZE AND QUANTITY	GROUND CONDUCTOR SIZE	CONDUIT SIZE	CONTROLLER				DISCONNECT			CONTROL OR AUXILIARY DEVICE (SEE NOTES)				
									MAGNETIC STARTER/DISCONNECT STARTER SIZE	VARIABLE FREQUENCY DRIVE	MANUAL MOTOR CONTROLLER	TOGGLE SWITCH	DISCONNECT SIZE	FUSIBLE / NON FUSIBLE	NEMA RATING	DISCONNECT BY (DIV. NO.)	VFD	TIME SWITCH	THERMOSTAT	AMSTAT
1	M-EF-15	BLDG 46 ROOF	5 HP	208, 3	46201 - NEW 35A/3P	3 #10	#10	3/4"												
2	M-EF-17	BLDG 1 ROOF	3 HP	208, 3	1104-EXISTING 20A/3P	EXISTING														
3	NOT USED																			
4	M-EF-36	BLDG 46 ROOF	3 HP	208, 3	465C2-1,3,5 (EXISTING 20A/3P)	EXISTING														
5	M-EF-39	BLDG 46 ROOF	1.5 HP	208, 3	465C2-7,9,11 (EXISTING 20A/3P)	EXISTING														
6	M-EF-41	BLDG 1 ROOF	2 HP	208, 3	MCC-181 (EXISTING)	EXISTING														
7	M-EF-47	BLDG 1 ROOF	3 HP	208, 3	EB12E1-16,18,20 (EXISTING 20A/3P)	EXISTING														
8	M-EF-48	BLDG 1 ROOF	3 HP	208, 3	EB12E1-22,24,26 (EXISTING 20A/3P)	EXISTING														
9	NOT USED																			
10	M-EF-71	BLDG 1 ROOF	1.5 HP	208, 3	EB12E1-20A/3P	EXISTING														
11	M-EF-73	BLDG 9 ROOF	3 HP	208, 3	EB95C3-NEW 20A/3P	3 #12	#12	3/4"												
12	M-EF-118	BA-55A	1/8 HP	120, 1	9052-30	2 #12	#12	3/4"												
13	13-SF-1	BLDG 13 MECH RM	20 HP	208, 3	1310C - NEW 100A/3P	3 #4	#8	1-1/4"												
14	13-EF-1	BLDG 13 MECH RM	7.5 HP	208, 3	1310C-EXISTING 50A/3P	3 #10	#10	3/4"												
15	13-FC-1	BLDG 13	2 HP	208, 3	1310C-2,4,6	3 #12	#12	3/4"												
16	13-ACCH-1	BLDG 13 EXTERIOR	77 TON	480, 3	TRANSFORMER T13-1	3 #3/0	#6	2"												
17	13-CMP-1	BLDG 13 MECH RM	5 HP	208, 3	1310C-7,9,11	3 #10	#10	3/4"												
18	13-CMP-2	BLDG 13 MECH RM	5 HP	208, 3	1310C-13,15,17	3 #10	#10	3/4"												
19	13-EF-2	BLDG 13 MECH RM	2 HP	208, 3	1310C-1,3,5	3 #12	#12	3/4"												
20	13-FC-2	BLDG 13 MECH RM	5 HP	208, 3	1310C-8,10,12	3 #10	#10	3/4"												
21	M-DAU-15 INDOOR	BA-65A	40 MCA	208, 3	9082-32,34,36	3 #8	#10	3/4"												
22	M-DAU-15 OUTDOOR	EXTERIOR-ON GRADE	5 MCA	208, 3	9082-38,40,42	3 #12	#12	3/4"												

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3. ELECTRICAL CONTRACTOR TO WIRE EXISTING AUXILIARY CONTROL DEVICE FURNISHED AND SET BY OTHERS  
4. ELECTRICAL CONTRACTOR TO PROVIDE DUCT DETECTOR, FAN RELAY AND CONNECT TO FA SYSTEM

MOTOR AND EQUIPMENT SCHEDULE-PHASE 2																				
MOTOR NO	DESCRIPTION OF MOTOR OR EQUIPMENT	LOCATION (ROOM NO)	LOAD IN HORSEPOWER (HP) OR FULL LOAD AMPS (FLA)	VOLTAGE, PHASE	PANEL AND CIRCUIT NUMBER OR MCC NUMBER	CONDUCTOR SIZE AND QUANTITY	GROUND CONDUCTOR SIZE	CONDUIT SIZE	CONTROLLER				DISCONNECT			CONTROL OR AUXILIARY DEVICE (SEE NOTES)				
									MAGNETIC STARTER/DISCONNECT STARTER SIZE	VARIABLE FREQUENCY DRIVE	MANUAL MOTOR CONTROLLER	TOGGLE SWITCH	DISCONNECT SIZE	FUSIBLE / NON FUSIBLE	NEMA RATING	DISCONNECT BY (DIV. NO.)	VFD	TIME SWITCH	THERMOSTAT	AMSTAT
1	1-AC-1	ON GRADE	1.5 HP	208, 3	EB10E2P-NEW 25A/3P	3 #10	#10	3/4"												
2	1-AC-2	2ND FLR ROOF	1.5 HP	208, 3	EB12E1-NEW 25A/3P	3 #10	#10	3/4"												
3	AHU22 SF-22 (2 THUS)	SE 08	10 HP	208, 3	EB13C1-NEW 50A/3P	3 #8	#10	3/4"												
4	NOT USED																			
5	AC-4	1ST FLR ROOF	43 MCA	208, 3	EB10C2-EXISTING 50A/3P	3 #8	#10	3/4"												
6	AC-4	1ST FLR ROOF	43 MCA	208, 3	EB10C2-NEW 50A/3P	3 #8	#10	3/4"												
7	AHU1 SF-1	BA-01	20 HP	208, 3	MCCB-NEW 100A/3P	3 #4	#8	1-1/4"												
8	AHU1 RF-1	BA-01	10 HP	208, 3	MCCB-NEW 60A/3P	3 #8	#10	3/4"												
9	AHU5 SF-5	2A-01	25 HP	208, 3	EB40E2-NEW 110A/3P	3 #2	#8	1-1/4"												
10	AHU5 RF-5	3A-01	7.5 HP	208, 3	EB93C2-1,3,5	3 #8	#8	3/4"												
11	AHU5 SF-6	3A-01	15 HP	208, 3	EB93C2-7,9,11	3 #6	#10	3/4"												
12	AHU5 RF-6	2A-01	5 HP	208, 3	EB40E2-NEW 40A/3P	3 #10	#10	3/4"												
13	SS1 (6 THUS)	SEE DWG	.4 MCA	208, 1	EB10C2-EXISTING 15A/2P	2 #12	#12	3/4"												
14	SS2 (2 THUS)	SEE DWG	.4 MCA	208, 1	EB10C2-EXISTING 15A/2P	2 #12	#12	3/4"												
15	SS3 (5 THUS)	SEE DWG	.4 MCA	208, 1	EB10C2-EXISTING 15A/2P	2 #12	#12	3/4"												
16	SS4 (8 THUS)	SEE DWG	.4 MCA	208, 1	EB10C2-EXISTING 15A/2P	2 #12	#12	3/4"												

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MOTOR AND EQUIPMENT SCHEDULE-PHASE 4																				
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1	M-HMP-17	BC-79	5 HP	208, 3	MCCB-1	3 #10	#10	3/4"												
2	M-HMP-18	BC-79	5 HP	208, 3	MCCB-1	3 #10	#10	3/4"												
3	M-CMP-6	BC-79	10 HP	208, 3	MCCB-1 NEW 40A/3P	3 #8	#8	3/4"												
4	M-CMP-7	BC-79	10 HP	208, 3	MCCB-1 NEW 40A/3P	3 #8	#8	3/4"												
5	AHU2 SF-2 (6 THUS IN FAN ARRAY)	BA-01	15 HP	208, 3	MCCB-SEE DWG5	SEE DRAWINGS														
6	AHU2 RF-2	BA-01	15 HP	208, 3	MCCB-SEE DWG5	3 #8	#8	3/4"												
7	AHU7 SF-7	BLDG 46 PENT	20 HP	208, 3	465C2-NEW 100A/3P	3 #4	#8	1-1/4"												
8	AHU7 RF-7	BLDG 46 PENT	7.5 HP	208, 3	465C2-NEW 50A/3P	3 #10	#10	3/4"												
9	AHU-82	BC-59	5 HP	208, 3	EB4602-19,21,23	3 #10	#10	3/4"												
10	DAU-16 INDOOR	BE-09	71 MCA	208, 3	10E8-NEW 80A/3P	3 #4	#8	1-1/4"												
11	DAU-16 OUTDOOR	1ST FLOOR ROOF	19 MCA	208, 3	10E8-NEW 30A/3P	3 #10	#10	3/4"												
12	DAU-17 INDOOR	BB-54A	19 FLA	208, 3	9082-31,33	2 #10	#8	3/4"												
13	DAU-17 OUTDOOR	2ND FLOOR ROOF	3/4 HP	208, 3	9082-2,4,6	3 #12	#12	3/4"												
14	DAU-18 INDOOR	BB-54A	67 MCA	208, 3	9082-7,9,11	3 #4	#8	1"												
15	DAU-18 OUTDOOR	2ND FLOOR ROOF	10 MCA	208, 3	9082-8,10,12	3 #12	#12	3/4"												
16	DAU-19 INDOOR	BB-34A	67 MCA	208, 3	9082-13,15,17	3 #4	#8	1"												
17	DAU-19 OUTDOOR	2ND FLOOR ROOF	10 MCA	208, 3	9082-14,16,18	3 #12	#12	3/4"												

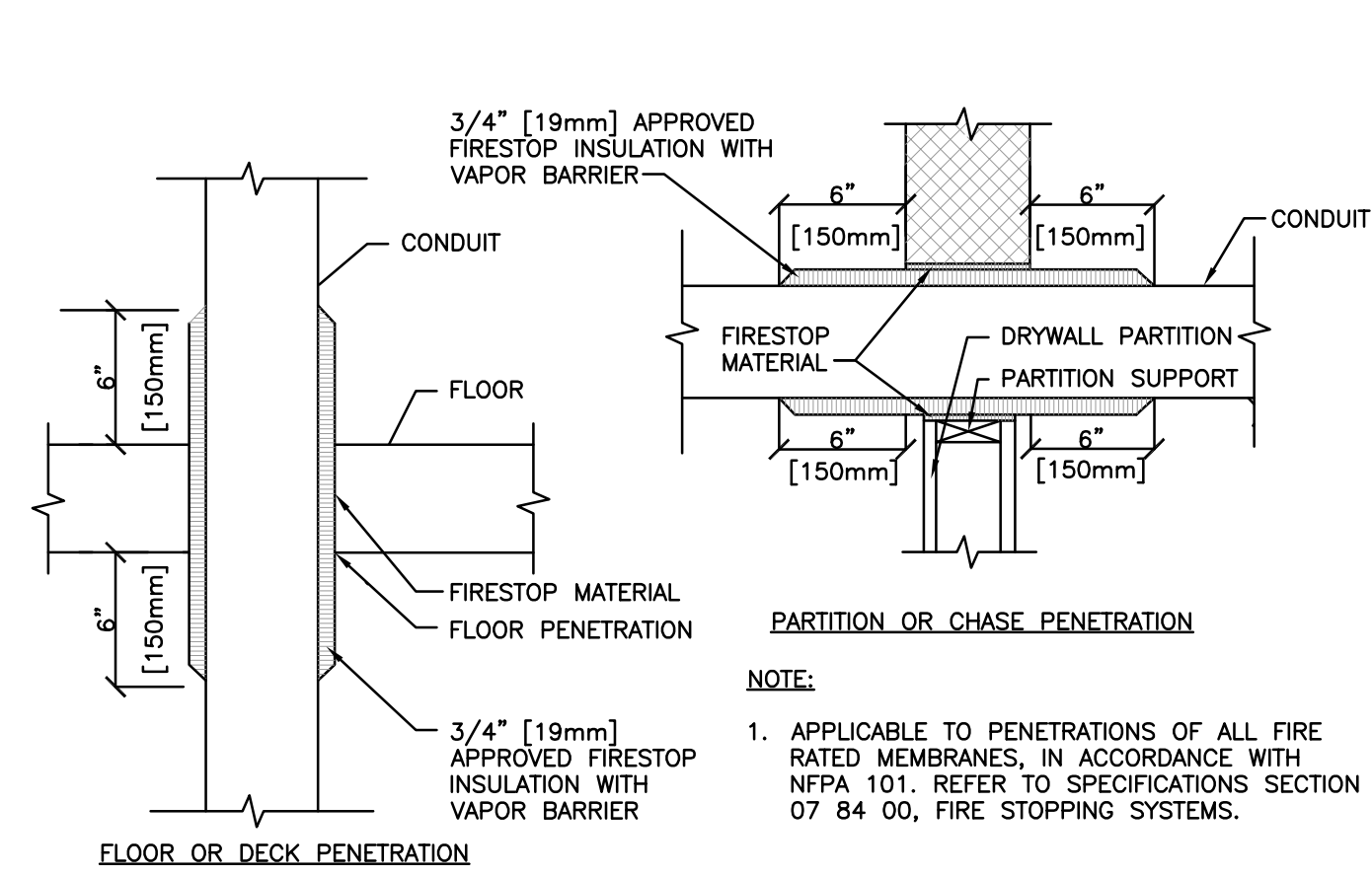
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ELECTRIC HEAT SCHEDULE					
NO.	DESCRIPTION	KW	VOLTS	PH	REMARKS
FFH-1	CABINET UNIT HEATER	4	208	3	RECESSED CEILING INTEGRAL THERMOSTAT EQUAL TO BERKO FFH SERIES
FFH-2	CABINET UNIT HEATER	4	208	3	RECESSED CEILING INTEGRAL THERMOSTAT EQUAL TO BERKO FFH SERIES
FFH-3	CABINET UNIT HEATER	4	208	3	RECESSED CEILING INTEGRAL THERMOSTAT EQUAL TO BERKO FFH SERIES
FFH-4	CABINET UNIT HEATER	4	208	3	RECESSED CEILING INTEGRAL THERMOSTAT EQUAL TO BERKO FFH SERIES

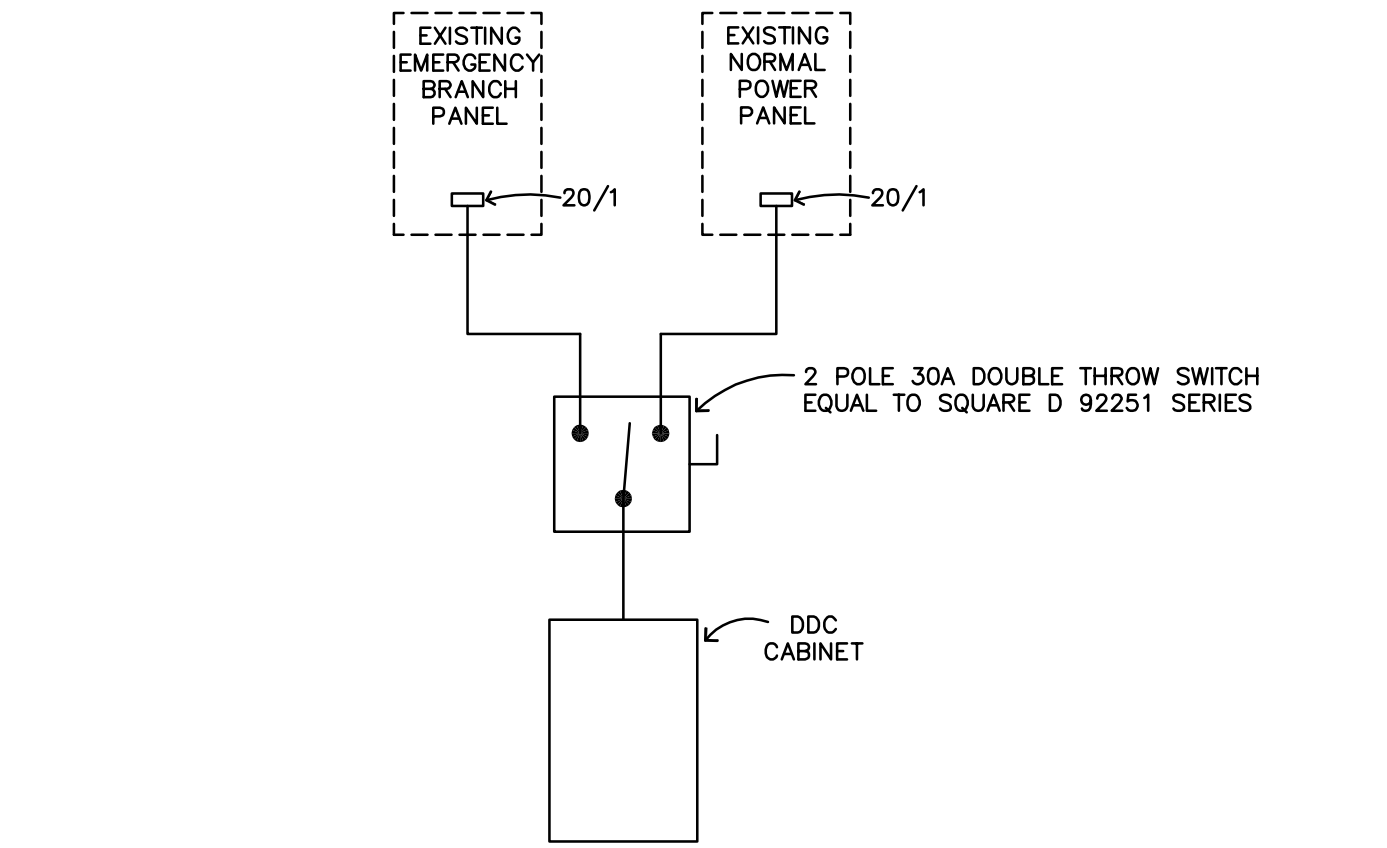
Revisions	Date



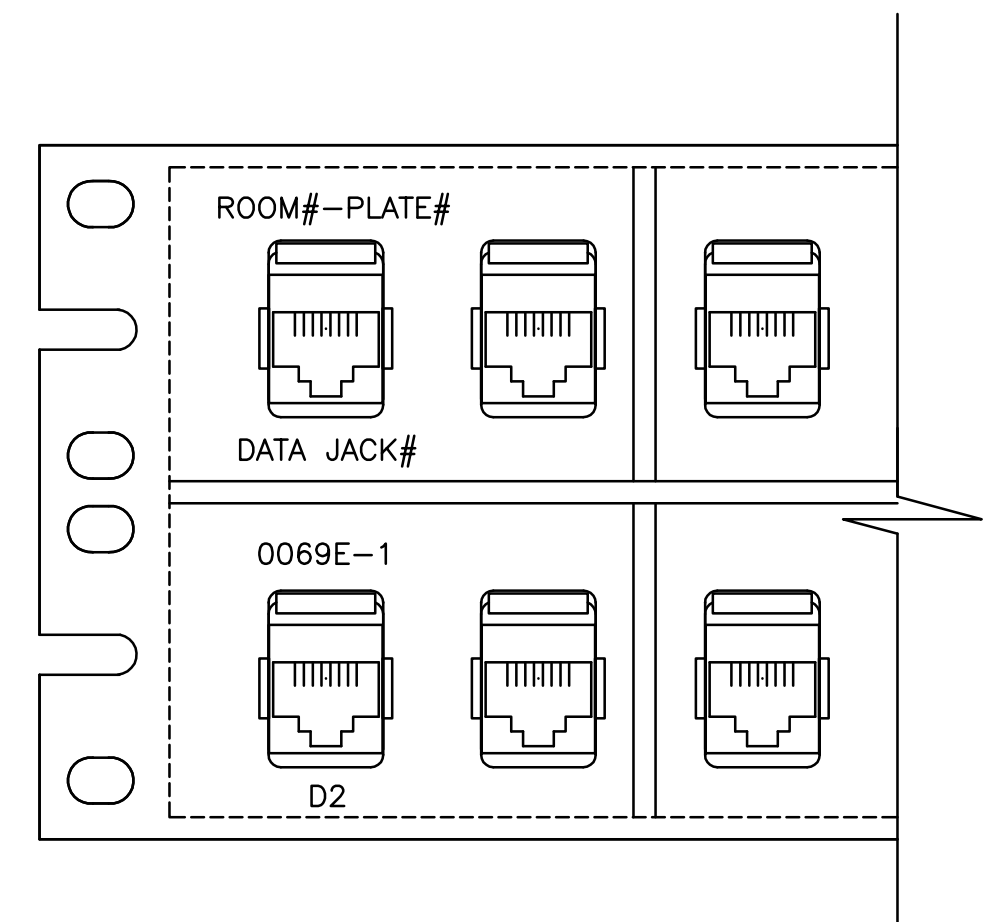
**Dept. of Veterans Affairs  
Medical Center**  
2101 Elm Street  
Fargo, ND 58102



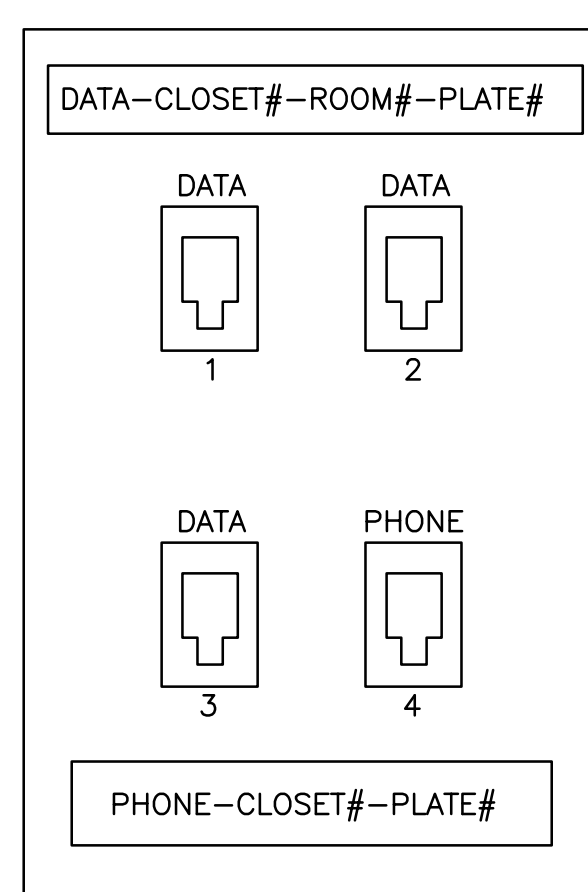
1 CONDUIT PENETRATION OF SMOKE/FIRE BARRIERS  
E6.1 NO SCALE



4 TYPICAL POWER TRANSFER ONE-LINE  
E6.1 NO SCALE



2 PATCH PANEL SAMPLE LABELS  
E6.1 NO SCALE



3 TYPICAL COMMUNICATIONS DETAIL  
E6.1 NO SCALE

- NOTES:
1. (3) DATA, (1) PHONE JACK.
  2. SEE SECTION 27 1005 FOR PLATE AND JACK REQUIREMENTS.
  3. DATA JACKS TO BE ORANGE COLOR, PHONE JACKS TO BE IVORY.
  4. PLATES ARE LABELED AS SHOWN, NUMBER PLATES ARE CLOCKWISE FROM THE DOOR.
  5. LABEL ALL VOICE AND DATA CABLES AT BOTH ENDS WITH "DATA CLOSET# - ROOM# - PLATE# - JACK#"
  6. ALL (4) JACKS TO BE CATEGORY 6e CABLES.
  7. DATA JACKS ARE NUMBERED LEFT TO RIGHT, TOP TO BOTTOM

PANELBOARD LOAD SCHEDULE														
PANEL:		MAIN:		ENCLOSURE:		LOCATION:								
EB465C3		MLO		NEMA 1		PENTHOUSE								
RATING: 225 AMP		AIC RATING: 22,000		MOUNTING: SURFACE		FED FROM: EBE								
CKT #	TRIP AMPS	POLE	LOAD IN VOLT-AMPERES	LOAD DESCRIPTION	PH	LOAD IN VOLT-AMPERES	LOAD DESCRIPTION	PH	LOAD IN VOLT-AMPERES	LOAD DESCRIPTION	PH	TRIP AMPS	POLE	CKT #
1	15		1320	EF-37 A	A	7440	SF-4A	A	100			2		2
3			1320	(EXISTING EQ) B	B	7440	SEE NOTE#1	B				4		4
7	50	3	2500	PANEL ESM65C1 C	C		SPARE	C	30			8		8
9			2500	(EXISTING EQ) B	B		SPARE	B				10		10
11			2500		C		SPARE	C	3			12		12
15	60		3840	RF-4 A	A		SPARE	A	20			14		14
15			3840		B		SPARE	B				16		16
17			3840		C		SPARE	C	3			18		18
19	110		8400	SF-4 A	A		SPARE	A	20			20		20
21			8400		B		SPARE	B				22		22
23			8400		C		SPARE	C	3			24		24
25	40		9400		A		SPARE	A	15			26		26
27					B		SPARE	B				28		28
29					C		SPARE	C	15			30		30
31	15				A		SPARE	A	15			32		32
33					B		SPARE	B				34		34
35					C		SPARE	C				36		36
37	20	1			A		SPARE	A	20			38		38
39	20	1			B		SPARE	B	20			40		40
41	20	1			C		SPARE	C	20			42		42

PANELBOARD LOAD SCHEDULE														
PANEL:		MAIN:		ENCLOSURE:		LOCATION:								
90W2		MLO		NEMA 1		BSMT MECH RM								
RATING: 225 AMP		AIC RATING: 22,000		MOUNTING: SURFACE		FED FROM: BLDG 9 SWBD								
CKT #	TRIP AMPS	POLE	LOAD IN VOLT-AMPERES	LOAD DESCRIPTION	PH	LOAD IN VOLT-AMPERES	LOAD DESCRIPTION	PH	LOAD IN VOLT-AMPERES	LOAD DESCRIPTION	PH	TRIP AMPS	POLE	CKT #
1	15			SPARE	A	444	DAQU-17 OUTDOOR	A	15			2		2
3					B	444		B	3			4		4
5	20	1			C	444		C	3			6		6
7	70		8040	DAQU-18 A	A	1080	DAQU-18 OUTDOOR	A	15			8		8
9			8040		B	1080		B				10		10
11			8040		C	1080		C	3			12		12
13	70		8040	DAQU-19 A	A	1080	DAQU-19 OUTDOOR	A	15			14		14
15			8040		B	1080		B				16		16
17			8040		C	1080		C	3			18		18
19	15			SPARE	A		SPARE	A	20			20		20
21					B		SPARE	B				22		22
23					C		SPARE	C	3			24		24
25	15			SPARE	A		SPARE	A	30			26		26
27					B		SPARE	B				28		28
29					C		SPARE	C	3			30		30
31	40		2000	DAQU-17 A	A		SPARE	A	30			32		32
33			2000		B		SPARE	B				34		34
35	20	1			C		SPARE	C	3			36		36
37	20	1			A		SPARE	A	20			38		38
39	20	1			B		SPARE	B	20			40		40
41	20	1			C		SPARE	C	20			42		42

PANELBOARD LOAD SCHEDULE														
PANEL:		MAIN:		ENCLOSURE:		LOCATION:								
131C5		MLO		NEMA 1		BLDG 13 ELEC.								
RATING: 225 AMP		AIC RATING: 22,000		MOUNTING: SURFACE		FED FROM: 131C2								
CKT #	TRIP AMPS	POLE	LOAD IN VOLT-AMPERES	LOAD DESCRIPTION	PH	LOAD IN VOLT-AMPERES	LOAD DESCRIPTION	PH	LOAD IN VOLT-AMPERES	LOAD DESCRIPTION	PH	TRIP AMPS	POLE	CKT #
1	15		960	13-EF-2 A	A	13-FC-1		A	15			2		2
3			960		B			B				4		4
5	20	3	2100	13-CWP-1 A	A	13-FC-2		A	35			6		6
7	25	1	2100		B			B				8		8
9			2100		C			C	3			10		10
11			2100	13-CWP-2 A	A	SPARE		A	30			12		12
13	25		2100		B			B				14		14
15			2100		C			C	3			16		16
17	30	3		SPARE	A		SPARE	A	20			18		18
19					B			B				20		20
21					C			C				22		22
23	30	3	1600	EXISTING LOAD A	A	EXISTING LOAD		A	30			24		24
25			1600	EXISTING LOAD B	B	EXISTING LOAD		B				26		26
27			1600	EXISTING LOAD C	C	EXISTING LOAD		C	2			28		28
29	20	1	1600	EXISTING LOAD A	A	EXISTING LOAD		A	20			30		30
31			1600	EXISTING LOAD B	B	EXISTING LOAD		B				32		32
33			1600	EXISTING LOAD C	C	EXISTING LOAD		C				34		34
35	20	1	1600	EXISTING LOAD A	A	EXISTING LOAD		A	20			36		36
37			1600	EXISTING LOAD B	B	EXISTING LOAD		B				38		38
39	20	1	1600	EXISTING LOAD A	A	EXISTING LOAD		A	20			40		40
41			1600	EXISTING LOAD B	B	EXISTING LOAD		B				42		42
43	30	2		SPARE	A		SPARE	A	20			44		44
45					B		SPARE	B				46		46
47	30	2		SPARE	A		SPARE	A	20			48		48
49					B		SPARE	B				50		50
51	20	1			C		SPARE	C	20			52		52
53					A		SPARE	A	20			54		54

PANELBOARD LOAD SCHEDULE														
PANEL:		MAIN:		ENCLOSURE:		LOCATION:								
131C1		MLO		NEMA 1		BLDG 13 ELEC.								
RATING: 225 AMP		AIC RATING: 22,000		MOUNTING: SURFACE		FED FROM: 131C2								
CKT #	TRIP AMPS	POLE	LOAD IN VOLT-AMPERES	LOAD DESCRIPTION	PH	LOAD IN VOLT-AMPERES	LOAD DESCRIPTION	PH	LOAD IN VOLT-AMPERES	LOAD DESCRIPTION	PH	TRIP AMPS	POLE	CKT #
1	20	1	1600	EXISTING LOAD A	A	EXISTING LOAD		A	20			2		2
3			1600	EXISTING LOAD B	B	EXISTING LOAD		B				4		4
5	20	1	1600	EXISTING LOAD C	C	EXISTING LOAD		C	20			6		6
7	20	1	1600	EXISTING LOAD A	A	EXISTING LOAD		A	20			8		8
9			1600	EXISTING LOAD B	B	EXISTING LOAD		B				10		10
11			1600	EXISTING LOAD C	C	EXISTING LOAD		C	20			12		12
13	20	1	1600	EXISTING LOAD A	A	EXISTING LOAD		A	20			14		14
15			1600	EXISTING LOAD B	B	EXISTING LOAD		B				16		16
17			1600	EXISTING LOAD C	C	EXISTING LOAD		C	20			18		18
19	20	1	1600	EXISTING LOAD A	A	EXISTING LOAD		A	20			20		20
21			1600	EXISTING LOAD B	B	EXISTING LOAD		B				22		22
23			1600	EXISTING LOAD C	C	EXISTING LOAD		C	20			24		24
25			1600	EXISTING LOAD A	A	EXISTING LOAD		A	20			26		26
27			1600	EXISTING LOAD B	B	EXISTING LOAD		B				28		28
29			1600	EXISTING LOAD C	C	EXISTING LOAD		C	20			30		30
31	20	1	1600	EXISTING LOAD A	A	EXISTING LOAD		A	20			32		32
33			1600	EXISTING LOAD B	B	EXISTING LOAD		B				34		34
35			1600	EXISTING LOAD C	C	EXISTING LOAD		C				36		36
37	40	2		EXISTING LOAD A	A	EXISTING LOAD		A	20			38		38
39				EXISTING LOAD B	B	EXISTING LOAD		B				40		40
41				EXISTING LOAD C	C	EXISTING LOAD		C				42		42
43	20	1		SPARE	A		SPARE	A	20			44		44
45				SPARE	B		SPARE	B				46		46
47	20	1		SPARE	A		SPARE	A	20			48		48
49				SPARE	B		SPARE	B				50		50
51				SPARE	C									