PANELBOARD MDP-DFAC SURFACE MOUNTED
AMP. MAIN LUGS (OR) 800 AMP. MAIN BREAKER W/ 800 AMP. TRIP
CIRCUIT BREAKER TYPE 380/220 VOLTS 3 PHASE 4 WIRE 50 HZ 800 AMP. BUS

CKT. NO.	TRIP AMPS	NO. POLES	WIRE MM 2	GND MM2	CONDUIT MM	LOAD SERVED	LOAD-KVA A0	LOAD-KVA B0	LOAD-KVA C0	LOAD-KVA A0	LOAD-KVA B0	LOAD-KVA C0	LOAD SERVED	CONDUIT MM	GND MM2	WIRE MM2	NO. POLES	TRIP AMPS	CKT. NO.
1							15.6			33.0									2
3	150	3	70.0	16.0	40	DFAC1		21.8			34.5		DFAC2	60	25.0	150.0	3	250	4
5									24.4			32.5							6
7							27.1			61.5									8
9	225	3	120.0	25.0	50	DFAC3		24.1			53.1		DFAC4	(2) 50	(2) 10.0	(2) 95.0	3	400	10
11									23.8			55.9							12
13																			14
15	100	3				SPARE							SPARE				3	100	16
17																			18
							42.7	45.9	48.2	94.5	87.6	88.4							

TOTAL CONN. LOAD PER PHASE (KVA): A0 137.2 B0 133.5 C0 136.6

TOTAL CONN. LOAD 407.3 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 285.11

* MAIN BREAKER SHALL BE 3P EARTH GROUND TYPE

PANELBOARD DFAC1 SURFACE MOUNTED
AMP. MAIN LUGS (OR) 150 AMP. MAIN BREAKER W/ 150 AMP. TRIP
CIRCUIT BREAKER TYPE 380/220 VOLTS 3 PHASE 4 WIRE 50 HZ 225 AMP. BUS

CKT. NO.	TRIP AMPS	NO. POLES	WIRE MM 2	GND MM2	CONDUIT MM	LOAD SERVED	LOAD-KVA A0	LOAD-KVA B0	LOAD-KVA C0	LOAD-KVA A0	LOAD-KVA B0	LOAD-KVA C0	LOAD SERVED	CONDUIT MM	GND MM2	WIRE MM2	NO. POLES	TRIP AMPS	CKT. NO.
1	20	1	4.0	4.0	20	LIGHTING – RM 102	2.5			1.5			CEILING FANS – RM 101, 102	20	4.0	4.0	1	20	2
3	20	1	4.0	4.0	20	LIGHTING – RM 102		2.5			2.5		CEILING FANS – RM 102, 103	20	4.0	4.0	1	20	4
5	20	1	4.0	4.0	20	LIGHTING – RM 102			2.5			2.5	RECEPTACLES – RM 103	20	4.0	4.0	1	20	6
7	20	1	4.0	4.0	20	LIGHTING – RM 102	2.5			0.8			RECEPTACLES – RM 103	20	4.0	4.0	1	20	8
9	20	1	4.0	4.0	20	LIGHTING – RM 103		2.5			0.6		RECEPTACLES – RM 102, EXTERIOR	20	4.0	4.0	1	20	10
11	20	1	4.0	4.0	20	LIGHTING – RM 100, 105			0.7			1.0	RECEPTACLES – RM 102	20	4.0	4.0	1	20	12
13	20	1	4.0	4.0	20	LIGHTING – RM 101	0.7			0.8			RECEPTACLES – RM 102	20	4.0	4.0	1	20	14
15	20	1	4.0	4.0	20	LIGHTING – 108, 109		2.0			0.8		RECEPTACLES – RM 102	20	4.0	4.0	1	20	16
17	20	1	4.0	4.0	20	LIGHTING – RM 108, 116, 117			1.6			0.8	RECEPTACLES – RM 102, EXTERIOR	20	4.0	4.0	1	20	18
19	20	1	4.0	4.0	20	LIGHTING – RM 111–114, 119–123	2.0			0.8			RECEPTACLES – RM 102	20	4.0	4.0	1	20	20
21	20	1	4.0	4.0	20	LIGHTING – RM 110		1.8			0.8		RECEPTACLES –RM 119	20	4.0	4.0	1	20	22
23	20	1	4.0	4.0	20	LIGHTING – RM 124			1.2			0.8	RECEPTACLES – RM 115, 121, EXT.	20	4.0	4.0	1	20	24
25	20	1	4.0	4.0	20	EXHAUST FAN #3 – RM 117	0.5			0.6			RECEPTACLES – RM 107	20	4.0	4.0	1	20	26
27	20	1	4.0	4.0	20	EXHAUST FAN #8 – RM 114		0.5			1.5		CEILING FANS – RM 107, 109, 119	20	4.0	4.0	1	20	28
29	20	1	4.0	4.0	20	EXHAUST HOOD LIGHTING			3.2			1.2	RECEPTACLES – 109,111,112,113	20	4.0	4.0	1	20	30
31	20	1	4.0	4.0	20	FREEZER RM – 111	1.0			0.8			RECEPTACLES – RM 124	20	4.0	4.0	1	20	32
33	20	1	4.0	4.0	20	REFRIGERATOR 2 RM – 112		1.0			0.8		RECEPTACLES – RM 108, 109	20	4.0	4.0	1	20	34
35	20	1	4.0	4.0	20	REFRIGERATOR 1 RM – 113			1.0			0.8	RECEPTACLES – RM 109	20	4.0	4.0	1	20	36
37	20	1	4.0	4.0	20	FACP – RM 123	0.5			0.6			RECEPTACLES – RM 110	20	4.0	4.0	1	20	38
39	30	1	6.0	6.0	20	KITCHEN EXHAUST FAN #6 – RM 124		3.9			0.6		RECEPTACLES – RM 110	20	4.0	4.0	1	20	40
41	30	1	6.0	6.0	20	KITCHEN EXHAUST FAN #7 – RM 124			3.9			6.4	MAKE UP AIR FAN #5 – RM 110	25	6.0	25.0	1	60	42
							9.7	14.2	14.1	5.9	7.6	13.5							

TOTAL CONN. LOAD PER PHASE (KVA): A0 15.6 B0 21.8 C0 27.6

TOTAL CONN. LOAD 65.0 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 45.5

* MAIN BREAKER SHALL BE 3P EARTH GROUND TYPE

PANELBOARD DFAC3 SURFACE MOUNTED
AMP. MAIN LUGS (OR) 225 AMP. MAIN BREAKER W/ 225 AMP. TRIP
CIRCUIT BREAKER TYPE 380/220 VOLTS 3 PHASE 4 WIRE 50 HZ 225 AMP. BUS

CKT. NO.	TRIP AMPS	NO. POLES	WIRE MM 2	GND MM2	CONDUIT MM	LOAD SERVED	LOAD-KVA A0	LOAD-KVA B0	LOAD-KVA C0	LOAD-KVA A0	LOAD-KVA B0	LOAD-KVA C0	LOAD SERVED	CONDUIT MM	GND MM2	WIRE MM2	NO. POLES	TRIP AMPS	CKT. NO.
1	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102	2.5			1.3			ELECTRIC HEAT #2 – RM 100	20	4	4	2	20	2
3								2.5			1.3								4
5	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102			2.5			2.0	ELECTRIC HEAT #4 – RM 100	20	4	4	2	20	6
7							2.5			2.0									8
9	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102		2.0			1.3		ELECTRIC HEAT #2 – RM 105	20	4	4	2	20	10
11									2.0			1.3							12
13	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102	2.5			2.0			ELECTRIC HEAT #4 – RM 101	20	4	4	2	20	14
15								2.5			2.0								16
17	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102			2.5			2.0	ELECTRIC HEAT #4 – RM 101	20	4	4	2	20	18
19							2.5			2.0									20
21	20	2	4.0	4.0	20	ELECTRIC HEAT #4 – RM 103		2.0			0.5		EXHAUST FAN #5 – RM 119	20	4	4	1	20	22
23									2.0			0.5	EXHAUST FAN #9 – RM 120	20	4	4	1	20	24
25	20	2	4.0	4.0	20	ELECTRIC HEAT #4 – RM 103	2.0			1.3			ELECTRIC HEAT #2 – RM 119	20	4	4	2	20	26
27								2.0			1.3								28
29	20	2	4.0	4.0	20	ELECTRIC HEAT #4 – RM 103			2.0			2.0	ELECTRIC HEAT #4 – RM 121	20	4	4	2	20	30
31							2.0			2.0									32
33	20	2	4.0	4.0	20	ELECTRIC HEAT #4 – RM 103		2.0			0.5		EXHAUST FAN #7 – RM 114	20	4	4	1	20	34
35									2.0			0.5	EXHAUST FAN #4 – RM 116	20	4	4	1	20	36
37	20	2	4.0	4.0	20	ELECTRIC HEAT #4 – RM 103	2.0			0.5			EXHAUST FAN #10 – RM 122	20	4	4	1	20	38
39								2.0			2.0		EXTERIOR BUILDING LIGHTING	20	4	4	1	20	40
41	20	1	4.0	4.0	20	EXHAUST HOOD LIGHTING			2.6			2.0	EXTERIOR BUILDING LIGHTING	20	4	4	1	20	42
							16.0	15.0	15.6	11.1	9.1	10.8							

TOTAL CONN. LOAD PER PHASE (KVA): A0 27.1 B0 24.1 C0 26.4

TOTAL CONN. LOAD 77.6 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 54.3

* MAIN BREAKER SHALL BE 3P EARTH GROUND TYPE

PANELBOARD DFAC2 SURFACE MOUNTED
. AMP. MAIN LUGS (OR) 250 AMP. MAIN BREAKER W/ 250 AMP. TRIP
CIRCUIT BREAKER TYPE 380/220 VOLTS 3 PHASE 4 WIRE 50 HZ 400 AMP. BUS

CKT. NO.	TRIP AMPS	NO. POLES	WIRE MM 2	GND MM2	CONDUIT MM	LOAD SERVED	LOAD-KVA A0	LOAD-KVA B0	LOAD-KVA C0	LOAD-KVA A0	LOAD-KVA B0	LOAD-KVA C0	LOAD SERVED	CONDUIT MM	GND MM2	WIRE MM2	NO. POLES	TRIP AMPS	CKT. NO.
1	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102	2.5			2.5			ELECTRIC HEAT #5 – RM 102	20	4.0	4.0	2	20	2
3								2.5			2.5								4
5	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102			2.5			2.5	ELECTRIC HEAT #5 – RM 102	20	4.0	4.0	2	20	6
7							2.5			2.5									8
9	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102		2.5			2.5		ELECTRIC HEAT #5 – RM 102	20	4.0	4.0	2	20	10
11									2.5			2.5							12
13	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102	2.5			2.5			ELECTRIC HEAT #5 – RM 102	20	4.0	4.0	2	20	14
15								2.5			2.5								16
17	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102			2.5			2.5	ELECTRIC HEAT #5 – RM 102	20	4.0	4.0	2	20	18
19							2.5			2.5									20
21	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102		2.5			2.5		ELECTRIC HEAT #5 – RM 102	20	4.0	4.0	2	20	22
23									2.5			2.5							24
25	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102	2.5			2.5			ELECTRIC HEAT #5 – RM 102	20	4.0	4.0	2	20	26
27								2.5			2.5								28
29	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102			2.5			2.5	ELECTRIC HEAT #5 – RM 102	20	4.0	4.0	2	20	30
31							2.5			2.5									32
33	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102		2.5			2.5		ELECTRIC HEAT #5 – RM 102	20	4.0	4.0	2	20	34
35									2.5			2.5							36
37	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 102	2.5			0.5			EXHAUST FAN #6 – RM 123	20	4.0	4.0	1	20	38
39								2.5			2.0		ELECTRIC HEAT #4 – RM 115	20	4.0	4.0	2	20	40
41	20	1	4.0	4.0	20	EXHAUST FAN #1 – RM 105			0.5			2.0							42
							17.5	17.5	15.5	16	17	17							

TOTAL CONN. LOAD PER PHASE (KVA): A0 33.5 B0 34.5 C0 32.5

TOTAL CONN. LOAD 100.5 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 70.4

* MAIN BREAKER SHALL BE 3P EARTH GROUND TYPE

PANELBOARD DFAC4 SURFACE MOUNTED
AMP. MAIN LUGS (OR) 400 AMP. MAIN BREAKER W/ 400 AMP. TRIP
CIRCUIT BREAKER TYPE 380/220 VOLTS 3 PHASE 4 WIRE 50 HZ 400 AMP. BUS

CKT. NO.	TRIP AMPS	NO. POLES	WIRE MM 2	GND MM2	CONDUIT MM	LOAD SERVED	LOAD-KVA A0	LOAD-KVA B0	LOAD-KVA C0	LOAD-KVA A0	LOAD-KVA B0	LOAD-KVA C0	LOAD SERVED	CONDUIT MM	GND MM2	WIRE MM2	NO. POLES	TRIP AMPS	CKT. NO.
1							8.0			2.0									2
3	60	3	25.0	10	25	WATER HEATER – RM 121		8.0			2.0		ELECTRIC HEAT #4 – RM 110	20	4.0	4.0	2	20	4
5									8.0			2.0							6
7							8.0			2.0			ELECTRIC HEAT #4 – RM 109	20	4.0	4.0	2	20	8
9	60	3	25.0	10	25	WATER HEATER – RM 121		8.0			2.0								10
11									8.0			2.0	ELECTRIC HEAT #4 – RM 110	20	4.0	4.0	2	20	12
13							8.0			2.0									14
15	60	3	25.0	10	25	WATER HEATER – RM 121		8.0			2.0		ELECTRIC HEAT #4 – RM 109	20	4.0	4.0	2	20	16
17									8.0			3.9	KITCHEN EXHAUST FAN #1 – RM 110	20	6.0	6.0	1	30	18
19	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 107	2.5			6.4			MAKE UP AIR #1 – RM 110	25	6.0	25.0	1	60	20
21								2.5			3.9		KITCHEN EXHAUST FAN #2 – RM 110	20	6.0	6.0	1	30	22
23	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 107			2.5			6.4	MAKE UP AIR #2 – RM 110	25	6.0	25.0	1	60	24
25							2.5			3.9			KITCHEN EXHAUST FAN #3 – RM 110	20	6.0	6.0	1	30	26
27	20	2	4.0	4.0	20	ELECTRIC HEAT #2 – RM 107		1.3			6.4		MAKE UP AIR #3 – RM 110	25	6.0	25.0	1	60	28
29									1.3			6.5	KITCHEN EXHAUST FAN #4 – RM 110	25	6.0	25.0	1	60	30
31	20	2	4.0	4.0	20	ELECTRIC HEAT #5 – RM 109	2.5			9.2			MAKE UP AIR #4 – RM 110	25	6.0	25.0	1	60	32
33								2.5			2.0		ELECTRIC HEAT #4 – RM 110	20	4.0	4.0	2	20	34
35	20	2	4.0	4.0	20	ELECTRIC HEAT #4 – RM 114			2.0			2.0							36
37							2.0			2.5									38
39	20	2	4.0	4.0	20	ELECTRIC HEAT #4 – RM 115		2.0			2.5		ELECTRIC HEAT #5 – RM 102	20	4.0	4.0	2	20	40
41									2.0			3.9	KITCHEN EXHAUST FAN #5 – RM 110	20	6.0	6.0	1	30	42
							33.5	32.3	31.8	28	20.8	26.7							

TOTAL CONN. LOAD PER PHASE (KVA): A0 61.5 B0 53.1 C0 58.5

TOTAL CONN. LOAD 173.1 KVA. 70 % DEMAND = ESTIMATED DEMAND LOAD 121.2

* MAIN BREAKER SHALL BE 3P EARTH GROUND TYPE

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A/E DESIGNER OF RECORD

SEAL:

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
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1/29/10
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PE-074251

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