PANEL SCHEDULES

CIRCUIT CODE: L – LIGHTING, R – RECEPTACLES, LM – LARGEST MOTOR, M – MOTOR, K – KITCHEN, H – ELECTRIC HEATING, W – ELECT. WATER HTR, A – AIR CONDITIONING, O – MISCELLANEOUS

PANEL: HL1

DATE: 6/30/10 8:48 AM
JOB: 10.0123
VOLTAGE: 480 / 277 3Ø 4W
BUS: 150A
MAINS: 150A L.O. MOUNTING: SURFACE
FULLY RATED AIC: 50,000 NEMA 1 ENCLOSURE

CKT NO	CODE	TRIP	POLE	DESCRIPTION	(NOTE)	ØA	ØB	ØC	ØA	ØB	ØC	(NOTE)	DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	L	20	1	LIGHTING – C.R. 100, 101, 102		3240			3240				LIGHTING – C.R 200, 201, 202	20	1	L	2
3	L	20	1	LIGHTING – C.R. 125, 126, 127			3240			3240			LIGHTING – C.R 222, 223, 224	20	1	L	4
5	L	20	1	LIGHTING – C.R. 122, 123, 124				3360			3240		LIGHTING – C.R 219, 220, 221	20	1	L	6
7	L	20	1	LIGHTING – C.R. 109, COMPUTER LAB		2986			2160				LIGHTING – C.R 203, 204	20	1	L	8
9	L	20	1	LIGHTING – RM 103 SCIENCE LAB			2550			1350			LIGHTING ROOM 208 – 215	20	1	L	10
11	L	20	1	FIRST FLOOR CORR NIGHT LIGHTING				1037			863		SECOND FLOOR CORR NIGHT LTG	20	1	L	12
13	L	20	1	FIRST FLOOR CORR AND TLT RM LTG		2183			1229				SECOND FLOOR CORR & TLT RM LTG	20	1	L	14
15	L	20	1	EXTERIOR BUILDING LIGHTING			2040			60			ELEVATOR MACHINE ROOM	20	1	L	16
17	L	20	1	EXTERIOR BUILDING LIGHTING				1840			1500		MEZZANINE LIGHTING	20	1	L	18
19		20	1	SPARE		–			–				PROVISION				20
21	L	20	1	EXTERIOR CANOPY LIGHTING			1755			–			PROVISION				22
23		20	1	SPARE				–			–		PROVISION				24
25		20	1	SPARE		–			–				PROVISION				26
27		20	1	SPARE			–			–			PROVISION				28
29		20	1	SPARE				–			–		PROVISION				30
31						–			–								32
33							–			–							34
35								–			–						36
37						–			–								38
39							–			–							40
41								–			–						42

PHASE TOTALS: PH A: 15048 | PH B: 14235 | PH C: 11840

TOTAL CONNECTED VA	41123
PANEL CONNECTED KVA	41.1
PANEL DEMAND KVA	51.4
PANEL DEMAND AMPS	61.8

PANEL NOTES:
- PROVIDE LUGS TO ACCOMMODATE CONDUCTOR SIZING
- PROVIDE FULL SIZE NEUTRAL BAR
- PROVIDE FULL SIZE EQUIPMENT GROUND BAR
- LOCKABLE COVER
- BOLT-ON BREAKERS

CALCULATION BY LOAD TYPE:

LIGHTING	41,123	VOLTAMPS x 1.25 =	51,404	VOLTAMPS
RECEPTACLES – 1ST 10KVA	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
RECEPTACLES – BALANCE	0	VOLTAMPS x 0.50 =	0	VOLTAMPS
LARGEST MOTOR LOAD	0	VOLTAMPS x 1.25 =	0	VOLTAMPS
BALANCE OF MOTOR LOADS	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
KITCHEN EQUIPMENT	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
ELECTRIC HEATING EQUIPMENT	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
ELECTRIC WATER HEATER	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
AIR CONDITIONING	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
MISC LOADS	0	VOLTAMPS x 1.00 =	0	VOLTAMPS

TOTAL CALCULATED DEMAND LOAD = 51,404 VOLTAMPS
61.8 FULL LOAD AMPS

PANEL: HP1

DATE: 6/30/10 8:48 AM
JOB: 10.0123
VOLTAGE: 480 / 277 3Ø 4W
BUS: 400A
MAINS: 400A L.O. MOUNTING: SURFACE
FULLY RATED AIC: 35,000 NEMA 1 ENCLOSURE

CKT NO	CODE	TRIP	POLE	DESCRIPTION	(NOTE)	ØA	ØB	ØC	ØA	ØB	ØC	(NOTE)	DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	A	150		AIR COOLED CHILLER ACC-1		29163			942				PUMP P-3	15		M	2
3	A			–			29163			942			2.0 HP			M	4
5	A		3	–				29163			942		–		3	M	6
7	A	150		AIR COOLED CHILLER ACC-2		29163			942				PUMP P-4	15		M	8
9	A			–			29163			942			2.0 HP			M	10
11	A		3	–				29163			942		–		3	M	12
13	LM	20		PUMP P-1		3047			–				SPARE	20	1		14
15	LM			7.5 HP			3047			–			SPARE	20	1		16
17	LM		3	–				3047			–		SPARE	20	1		18
19	M	20		PUMP P-2		3047			–				SPARE	20	1		20
21	M			7.5 HP			3047			–			SPARE	20	1		22
23	M		3	–				3047			–		SPARE	20	1		24
25		20	1	SPARE		–			–				PROVISION				26
27		20	1	SPARE			–			–			PROVISION				28
29		20	1	SPARE				–			–		PROVISION				30
31				PROVISION		–			–				PROVISION				32
33				PROVISION			–			–			PROVISION				34
35				PROVISION				–			–		PROVISION				36
37				PROVISION		–			–				PROVISION				38
39				PROVISION			–			–			PROVISION				40
41				PROVISION				–			–		PROVISION				42

PHASE TOTALS: PH A: 66304 | PH B: 66304 | PH C: 66304

TOTAL CONNECTED VA	198912
PANEL CONNECTED KVA	198.9
PANEL DEMAND KVA	201.2
PANEL DEMAND AMPS	242.0

PANEL NOTES:
- PROVIDE LUGS TO ACCOMMODATE CONDUCTOR SIZING
- PROVIDE FULL SIZE NEUTRAL BAR
- PROVIDE FULL SIZE EQUIPMENT GROUND BAR
- LOCKABLE COVER
- BOLT-ON BREAKERS

CALCULATION BY LOAD TYPE:

LIGHTING	0	VOLTAMPS x 1.25 =	0	VOLTAMPS
RECEPTACLES – 1ST 10KVA	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
RECEPTACLES – BALANCE	0	VOLTAMPS x 0.50 =	0	VOLTAMPS
LARGEST MOTOR LOAD	9,141	VOLTAMPS x 1.25 =	11,426	VOLTAMPS
BALANCE OF MOTOR LOADS	14,793	VOLTAMPS x 1.00 =	14,793	VOLTAMPS
KITCHEN EQUIPMENT	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
ELECTRIC HEATING EQUIPMENT	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
ELECTRIC WATER HEATER	0	VOLTAMPS x 0.50 =	0	VOLTAMPS
AIR CONDITIONING	174,978	VOLTAMPS x 1.00 =	174,978	VOLTAMPS
MISC LOADS	0	VOLTAMPS x 1.00 =	0	VOLTAMPS

TOTAL CALCULATED DEMAND LOAD = 201,197 VOLTAMPS
242.0 FULL LOAD AMPS

PANEL: HP2

DATE: 6/29/10 3:59 PM
JOB: 10.0123
VOLTAGE: 480 / 277 3Ø 4W
BUS: 400A
MAINS: 400 L.O. MOUNTING: SURFACE
FULLY RATED AIC: 35,000 NEMA 1 ENCLOSURE

CKT NO	CODE	TRIP	POLE	DESCRIPTION	(NOTE)	ØA	ØB	ØC	ØA	ØB	ØC	(NOTE)	DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	W	110		WATER HEATER WH-1		25000			8420				AIR HANDLING UNIT AHU-3	40		M	2
3	W						25000			8420			SUPPLY FAN / EXHAUST FAN			M	4
5	W		3					25000			8420				3	M	6
7	LM	40		AIR HANDLING UNIT AHU-1		8808			8420				AIR HANDLING UNIT AHU-4	40		M	8
9	LM			SUPPLY FAN / EXHAUST FAN			8808			8420			SUPPLY FAN / EXHAUST FAN			M	10
11	LM		3					8808			8420				3	M	12
13	M	40		AIR HANDLING UNIT AHU-1		8420			3333				UNIT HEATERS UH-2/UH-5	20		H	14
15	M			SUPPLY FAN / EXHAUST FAN			8420			3333						H	16
17	M		3					8420			3333				3	H	18
19		20	1	SPARE		–			3333				UNIT HEATERS UH-3/UH-4	20		H	20
21		20	1	SPARE			–			3333						H	22
23		20	1	SPARE				–			3333				3	H	24
25		20	1	SPARE		–			9418				ELEVATOR	75		M	26
27		20	1	SPARE			–			9418						M	28
29		20	1	SPARE				–			9418				3	M	30
31				PROVISION		–			–				PROVISION				32
33				PROVISION			–			–			PROVISION				34
35				PROVISION				–			–		PROVISION				36
37				PROVISION		–			–				PROVISION				38
39				PROVISION			–			–			PROVISION				40
41				PROVISION				–			–		PROVISION				42

PHASE TOTALS: PH A: 75152 | PH B: 75152 | PH C: 75152

TOTAL CONNECTED VA	225456
PANEL CONNECTED KVA	225.5
PANEL DEMAND KVA	184.6
PANEL DEMAND AMPS	222.0

PANEL NOTES:
- PROVIDE LUGS TO ACCOMMODATE CONDUCTOR SIZING
- PROVIDE FULL SIZE NEUTRAL BAR
- PROVIDE FULL SIZE EQUIPMENT GROUND BAR
- LOCKABLE COVER
- BOLT-ON BREAKERS

CALCULATION BY LOAD TYPE:

LIGHTING	0	VOLTAMPS x 1.25 =	0	VOLTAMPS
RECEPTACLES – 1ST 10KVA	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
RECEPTACLES – BALANCE	0	VOLTAMPS x 0.50 =	0	VOLTAMPS
LARGEST MOTOR LOAD	26,424	VOLTAMPS x 1.25 =	33,030	VOLTAMPS
BALANCE OF MOTOR LOADS	104,034	VOLTAMPS x 1.00 =	104,034	VOLTAMPS
KITCHEN EQUIPMENT	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
ELECTRIC HEATING EQUIPMENT	19,998	VOLTAMPS x 0.50 =	9,999	VOLTAMPS
ELECTRIC WATER HEATER	75,000	VOLTAMPS x 0.50 =	37,500	VOLTAMPS
AIR CONDITIONING	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
MISC LOADS	0	VOLTAMPS x 1.00 =	0	VOLTAMPS

TOTAL CALCULATED DEMAND LOAD = 184,563 VOLTAMPS
222.0 FULL LOAD AMPS

PANEL: L1A

DATE: 5/12/10 4:31 PM
JOB: 10.0123
VOLTAGE: 208 / 120 3Ø 4W
BUS: 150A
MAINS: 150A L.O. MOUNTING: SURFACE
FULLY RATED AIC: 10,000 NEMA 1 ENCLOSURE

CKT NO	CODE	TRIP	POLE	DESCRIPTION	(NOTE)	ØA	ØB	ØC	ØA	ØB	ØC	(NOTE)	DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	R	20	1	CLASSROOM 100 RECEPTACLES		540			540				CLASSROOM 129 RECEPTACLES	20	1	R	2
3	R	20	1	CLASSROOM 100 RECEPTACLES			540			540			CLASSROOM 129 RECEPTACLES	20	1	R	4
5	R	20	1	CLASSROOM 100 RECEPTACLES				540			540		CLASSROOM 129 RECEPTACLES	20	1	R	6
7	R	20	1	CLASSROOM 100 PROJ/SMART BOARD		780			780				CLASSROOM 129 PROJ/SMART BOARD	20	1	R	8
9	R	20	1	CLASSROOM 101 RECEPTACLES			540			540			CLASSROOM 128 RECEPTACLES	20	1	R	10
11	R	20	1	CLASSROOM 101 RECEPTACLES				540			540		CLASSROOM 128 RECEPTACLES	20	1	R	12
13	R	20	1	CLASSROOM 101 RECEPTACLES		540			540				CLASSROOM 128 RECEPTACLES	20	1	R	14
15	R	20	1	CLASSROOM 101 PROJ/SMART BOARD			780			780			CLASSROOM 128 PROJ/SMART BOARD	20	1	R	16
17	R	20	1	CLASSROOM 102 RECEPTACLES				540			540		CLASSROOM 127 RECEPTACLES	20	1	R	18
19	R	20	1	CLASSROOM 102 RECEPTACLES		540			540				CLASSROOM 127 RECEPTACLES	20	1	R	20
21	R	20	1	CLASSROOM 102 RECEPTACLES			540			540			CLASSROOM 127 RECEPTACLES	20	1	R	22
23	R	20	1	CLASSROOM 102 PROJ/SMART BOARD				780			780		CLASSROOM 127 PROJ/SMART BOARD	20	1	R	24
25	R	20	1	CLASSROOM 131 RECEPTACLES		540			540				CLASSROOM 109 RECEPTACLES	20	1	R	26
27	R	20	1	CLASSROOM 131 RECEPTACLES			540			540			CLASSROOM 109 RECEPTACLES	20	1	R	28
29	R	20	1	CLASSROOM 131 RECEPTACLES				540			540		CLASSROOM 109 RECEPTACLES	20	1	R	30
31	R	20	1	CLASSROOM 131 PROJ/SMART BOARD		780			780				CLASSROOM 109 PROJ/SMART BOARD	20	1	R	32
33	R	20	1	CLASSROOM 130 RECEPTACLES			540			900			TOILET ROOM RECEPTACLES	20	1	R	34
35	R	20	1	CLASSROOM 130 RECEPTACLES				540			720		CORRIDOR 132 RECEPTACLES	20	1	R	36
37	R	20	1	CLASSROOM 130 RECEPTACLES		540			720				CORRIDOR 124 RECEPTACLES	20	1	R	38
39	R	20	1	CLASSROOM 130 PROJ/SMART BOARD			780			–			SPARE	20	1		40
41		20	1	SPARE				–			–		SPARE	20	1		42

PHASE TOTALS: PH A: 8700 | PH B: 8100 | PH C: 7140

TOTAL CONNECTED VA	23940
PANEL CONNECTED KVA	23.9
PANEL DEMAND KVA	17.0
PANEL DEMAND AMPS	47.1

PANEL NOTES:
- PROVIDE LUGS TO ACCOMMODATE CONDUCTOR SIZING
- PROVIDE FULL SIZE NEUTRAL BAR
- PROVIDE FULL SIZE EQUIPMENT GROUND BAR
- LOCKABLE COVER
- BOLT-ON BREAKERS

CALCULATION BY LOAD TYPE:

LIGHTING	0	VOLTAMPS x 1.25 =	0	VOLTAMPS
RECEPTACLES – 1ST 10KVA	10,000	VOLTAMPS x 1.00 =	10,000	VOLTAMPS
RECEPTACLES – BALANCE	13,940	VOLTAMPS x 0.50 =	6,970	VOLTAMPS
LARGEST MOTOR LOAD	0	VOLTAMPS x 1.25 =	0	VOLTAMPS
BALANCE OF MOTOR LOADS	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
KITCHEN EQUIPMENT	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
ELECTRIC HEATING EQUIPMENT	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
ELECTRIC WATER HEATER	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
AIR CONDITIONING	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
MISC LOADS	0	VOLTAMPS x 1.00 =	0	VOLTAMPS

TOTAL CALCULATED DEMAND LOAD = 16,970 VOLTAMPS
47.1 FULL LOAD AMPS

PANEL: L1B

DATE: 6/29/10 3:56 PM
JOB: 10.0123
VOLTAGE: 208 / 120 3Ø 4W
BUS: 150A
MAINS: 150A L.O. MOUNTING: SURFACE
FULLY RATED AIC: 10,000 NEMA 1 ENCLOSURE

CKT NO	CODE	TRIP	POLE	DESCRIPTION	(NOTE)	ØA	ØB	ØC	ØA	ØB	ØC	(NOTE)	DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	R	20	1	COMPUTER LAB CORD REELS		540			180				I.T. ROOM RECEPTACLE	20	1	R	2
3	R	20	1	COMPUTER LAB CORD REELS			540			180			I.T. ROOM RECEPTACLE	20	1	R	4
5	R	20	1	COMPUTER LAB CORD REELS				540			180		I.T. ROOM RECEPTACLE	20	1	R	6
7	R	20	1	COMPUTER LAB RECEPTACLES		54			360				I.T. ROOM RECEPTACLES	20	1	R	8
9	R	20	1	COMPUTER LAB RECEPTACLES			540			360			I.T. ROOM RECEPTACLES	20	1	R	10
11	R	20	1	COMPUTER LAB RECEPTACLES				540			180		I.T. ROOM RECEPTACLES	20	1	O	12
13	R	20	1	COMPUTER LAB RECEPTACLES		540			–				SPARE	20	1		14
15	R	20	1	COMPUTER LAB RECEPTACLES			360			500			EMS PANEL	20	1	O	16
17	R	20	1	COMPUTER LAB PROJ/SMART BOARD				780			–		SPARE	20	1		18
19	R	20	1	ADMIN ROOM 119 RECEPTACLES		720			1000				LIGHTING RELAY PANELS	20	1	O	20
21	R	20	1	ADMIN ROOM 118 RECEPTACLES			720			500		(1)	FIRE ALARM APPLIANCE PANEL	20	1	O	22
23	R	20	1	ADMIN ROOM 117 RECEPTACLES				720			500	(1)	FIRE ALARM APPLIANCE PANEL	20	1	O	24
25	R	20	1	ADMIN ROOM TLT RM RECEPTACLES		900							PROVISION				26
27		20	1	SPARE			–			–			PROVISION				28
29		20	1	SPARE				–			–		PROVISION				30
31		20	1	SPARE		–			–				PROVISION				32
33		20	1	SPARE			–			–			PROVISION				34
35		20	1	SPARE				–			–		PROVISION				36
37		20	1	SPARE		–			–				PROVISION				38
39		20	1	SPARE			–			–			PROVISION				40
41		20	1	SPARE				–			–		PROVISION				42

PHASE TOTALS: PH A: 4294 | PH B: 3700 | PH C: 3440

TOTAL CONNECTED VA	11434
PANEL CONNECTED KVA	11.4
PANEL DEMAND KVA	10.8
PANEL DEMAND AMPS	29.9

PANEL NOTES:
- PROVIDE LUGS TO ACCOMMODATE CONDUCTOR SIZING
- PROVIDE FULL SIZE NEUTRAL BAR
- PROVIDE FULL SIZE EQUIPMENT GROUND BAR
- LOCKABLE COVER
- BOLT-ON BREAKERS
- (1) PROVIDE HANDLE LOCK ON CIRCUIT BREAKER

CALCULATION BY LOAD TYPE:

LIGHTING	0	VOLTAMPS x 1.25 =	0	VOLTAMPS
RECEPTACLES – 1ST 10KVA	8,764	VOLTAMPS x 1.00 =	8,764	VOLTAMPS
RECEPTACLES – BALANCE	0	VOLTAMPS x 0.50 =	0	VOLTAMPS
LARGEST MOTOR LOAD	0	VOLTAMPS x 1.25 =	0	VOLTAMPS
BALANCE OF MOTOR LOADS	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
KITCHEN EQUIPMENT	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
ELECTRIC HEATING EQUIPMENT	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
ELECTRIC WATER HEATER	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
AIR CONDITIONING	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
MISC LOADS	2,680	VOLTAMPS x 0.75 =	2,010	VOLTAMPS

TOTAL CALCULATED DEMAND LOAD = 10,764 VOLTAMPS
29.9 FULL LOAD AMPS

PANEL: L1C

DATE: 6/29/10 3:56 PM
JOB: 10.0123
VOLTAGE: 208 / 120 3Ø 4W
BUS: 150A
MAINS: 150A L.O. MOUNTING: SURFACE
FULLY RATED AIC: 10,000 NEMA 1 ENCLOSURE

CKT NO	CODE	TRIP	POLE	DESCRIPTION	(NOTE)	ØA	ØB	ØC	ØA	ØB	ØC	(NOTE)	DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	R	20	1	SCIENCE LAB CORD REELS		540			235				ELEVATOR PIT LIGHT/RECEPTACLES	20	1	R	2
3	R	20	1	SCIENCE LAB CORD REELS			360			526			ELEVATOR PIT SUMP PUMP	20	1	M	4
5	R	20	1	SCIENCE LAB CORD REELS				360			900		EXTERIOR RECEPTACLES	20	1	R	6
7	R	20	1	SCIENCE LAB RECEPTACLES		540			620				DRINKING FOUNTAIN	20	1	R	8
9	R	20	1	SCIENCE LAB RECEPTACLES			540			620			DRINKING FOUNTAIN	20	1	R	10
11	R	20	1	SCIENCE LAB FUME HOOD				1200			500		VAV BOXES	20	1	O	12
13	R	20	1	SCIENCE LAB RECEPTACLES		540			900				VAV BOXES	20	1	O	14
15	R	20	1	SCIENCE LAB RECEPTACLES			540			720			EXTERIOR RECEPTACLES	20	1	R	16
17	R	20	1	SCIENCE LAB PROJ/SMART BOARD				780			1258		SPLIT SYSTEM AC-1/CU-1	20		A	18
19	R	20	1	SCIENCE LAB RECEPTACLES		540			1258						2	A	20
21	R	20	1	SCIENCE STOR. RM RECEPTACLES			540			1250			UNIT HEATER UH-1	20		H	22
23	R	20	1	BOILER RM RECEPTACLES				900			1250				2	H	24
25	O	20	1	AIR COOLED CHILLER CONTROLS		500			–				SPARE	20	1		26
27	O	20	1	AIR COOLED CHILLER CONTROLS			500			1176			EXHAUST FAN EF-5	20	1	LM	28
29		20	1	SPARE				–			–		SPARE	20	1		30
31	O	20	1	RELAY SWITCH B-1		432			–				SPARE	20	1		32
33	O	20	1	ELECTRIC HAND DRYER	(1)		1500			864			EXHAUST FAN EF-6	20	1	M	34
35				PROVISION				–			864		EXHAUST FAN EF-4	20	1	M	36
37	O	20	1	ELECTRIC HAND DRYER	(1)	1500			–				SPARE	20	1		38
39				PROVISION			–			–			SPARE	20	1		40
41				PROVISION				–			–		SPARE	20	1		42

PHASE TOTALS: PH A: 7605 | PH B: 9138 | PH C: 8012

TOTAL CONNECTED VA	24755
PANEL CONNECTED KVA	24.8
PANEL DEMAND KVA	22.1
PANEL DEMAND AMPS	61.4

PANEL NOTES:
- PROVIDE LUGS TO ACCOMMODATE CONDUCTOR SIZING
- PROVIDE FULL SIZE NEUTRAL BAR
- PROVIDE FULL SIZE EQUIPMENT GROUND BAR
- LOCKABLE COVER
- BOLT-ON BREAKERS
- (1) PROVIDE GFCI CIRCUIT BREAKER

CALCULATION BY LOAD TYPE:

LIGHTING	0	VOLTAMPS x 1.25 =	0	VOLTAMPS
RECEPTACLES – 1ST 10KVA	10,000	VOLTAMPS x 1.00 =	10,000	VOLTAMPS
RECEPTACLES – BALANCE	475	VOLTAMPS x 0.50 =	238	VOLTAMPS
LARGEST MOTOR LOAD	1,176	VOLTAMPS x 1.25 =	1,470	VOLTAMPS
BALANCE OF MOTOR LOADS	2,256	VOLTAMPS x 1.00 =	2,256	VOLTAMPS
KITCHEN EQUIPMENT	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
ELECTRIC HEATING EQUIPMENT	2,500	VOLTAMPS x 0.50 =	1,250	VOLTAMPS
ELECTRIC WATER HEATER	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
AIR CONDITIONING	2,516	VOLTAMPS x 1.00 =	2,516	VOLTAMPS
MISC LOADS	5,832	VOLTAMPS x 0.75 =	4,374	VOLTAMPS

TOTAL CALCULATED DEMAND LOAD = 22,104 VOLTAMPS
61.4 FULL LOAD AMPS

PANEL: L2A

DATE: 5/12/10 4:38 PM
JOB: 10.0123
VOLTAGE: 208 / 120 3Ø 4W
BUS: 150A
MAINS: 150A L.O. MOUNTING: SURFACE
FULLY RATED AIC: 10,000 NEMA 1 ENCLOSURE

CKT NO	CODE	TRIP	POLE	DESCRIPTION	(NOTE)	ØA	ØB	ØC	ØA	ØB	ØC	(NOTE)	DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	R	20	1	CLASSROOM 200 RECEPTACLES		540			540				CLASSROOM 222 RECEPTACLES	20	1	R	2
3	R	20	1	CLASSROOM 200 RECEPTACLES			540			540			CLASSROOM 222 RECEPTACLES	20	1	R	4
5	R	20	1	CLASSROOM 200 RECEPTACLES				540			540		CLASSROOM 222 RECEPTACLES	20	1	R	6
7	R	20	1	CLASSROOM 200 PROJ/SMART BOARD		780			780				CLASSROOM 222 PROJ/SMART BOARD	20	1	R	8
9	R	20	1	CLASSROOM 201 RECEPTACLES			540			540			CLASSROOM 221 RECEPTACLES	20	1	R	10
11	R	20	1	CLASSROOM 201 RECEPTACLES				540			540		CLASSROOM 221 RECEPTACLES	20	1	R	12
13	R	20	1	CLASSROOM 201 RECEPTACLES		540			540				CLASSROOM 221 RECEPTACLES	20	1	R	14
15	R	20	1	CLASSROOM 201 PROJ/SMART BOARD			780			780			CLASSROOM 221 PROJ/SMART BOARD	20	1	R	16
17	R	20	1	CLASSROOM 202 RECEPTACLES				540			540		CLASSROOM 220 RECEPTACLES	20	1	R	18
19	R	20	1	CLASSROOM 202 RECEPTACLES		540			540				CLASSROOM 220 RECEPTACLES	20	1	R	20
21	R	20	1	CLASSROOM 202 RECEPTACLES			540			540			CLASSROOM 220 RECEPTACLES	20	1	R	22
23	R	20	1	CLASSROOM 202 PROJ/SMART BOARD				780			780		CLASSROOM 220 PROJ/SMART BOARD	20	1	R	24
25	R	20	1	CLASSROOM 203 RECEPTACLES		540			540				CLASSROOM 219 RECEPTACLES	20	1	R	26
27	R	20	1	CLASSROOM 203 RECEPTACLES			540			540			CLASSROOM 219 RECEPTACLES	20	1	R	28
29	R	20	1	CLASSROOM 203 RECEPTACLES				540			540		CLASSROOM 219 RECEPTACLES	20	1	R	30
31	R	20	1	CLASSROOM 203 PROJ/SMART BOARD		780			780				CLASSROOM 219 PROJ/SMART BOARD	20	1	R	32
33	R	20	1	CLASSROOM 204 RECEPTACLES			540			540			CLASSROOM 218 RECEPTACLES	20	1	R	34
35	R	20	1	CLASSROOM 204 RECEPTACLES				540			540		CLASSROOM 218 RECEPTACLES	20	1	R	36
37	R	20	1	CLASSROOM 204 RECEPTACLES		540			540				CLASSROOM 218 RECEPTACLES	20	1	R	38
39	R	20	1	CLASSROOM 204 PROJ/SMART BOARD			780			780			CLASSROOM 218 PROJ/SMART BOARD	20	1	R	40
41		20	1	SPARE				–			–		SPARE	20	1		42

PHASE TOTALS: PH A: 8520 | PH B: 8520 | PH C: 6960

TOTAL CONNECTED VA	24000
PANEL CONNECTED KVA	24.0
PANEL DEMAND KVA	17.0
PANEL DEMAND AMPS	47.2

PANEL NOTES:
- PROVIDE LUGS TO ACCOMMODATE CONDUCTOR SIZING
- PROVIDE FULL SIZE NEUTRAL BAR
- PROVIDE FULL SIZE EQUIPMENT GROUND BAR
- LOCKABLE COVER
- BOLT-ON BREAKERS

CALCULATION BY LOAD TYPE:

LIGHTING	0	VOLTAMPS x 1.25 =	0	VOLTAMPS
RECEPTACLES – 1ST 10KVA	10,000	VOLTAMPS x 1.00 =	10,000	VOLTAMPS
RECEPTACLES – BALANCE	14,000	VOLTAMPS x 0.50 =	7,000	VOLTAMPS
LARGEST MOTOR LOAD	0	VOLTAMPS x 1.25 =	0	VOLTAMPS
BALANCE OF MOTOR LOADS	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
KITCHEN EQUIPMENT	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
ELECTRIC HEATING EQUIPMENT	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
ELECTRIC WATER HEATER	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
AIR CONDITIONING	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
MISC LOADS	0	VOLTAMPS x 1.00 =	0	VOLTAMPS

TOTAL CALCULATED DEMAND LOAD = 17,000 VOLTAMPS
47.2 FULL LOAD AMPS

PANEL: L2B

DATE: 6/30/10 8:48 AM
JOB: 10.0123
VOLTAGE: 208 / 120 3Ø 4W
BUS: 150A
MAINS: 150A L.O. MOUNTING: SURFACE
FULLY RATED AIC: 10,000 NEMA 1 ENCLOSURE

CKT NO	CODE	TRIP	POLE	DESCRIPTION	(NOTE)	ØA	ØB	ØC	ØA	ØB	ØC	(NOTE)	DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	R	20	1	CLASSROOM 209 RECEPTACLES		540			240				ELEVATOR MACHINE RM RECEPT/LTS	20	1	R	2
3	R	20	1	CLASSROOM 209 RECEPTACLES			540			500			ELEVATOR CONTROLS	20	1	O	4
5	R	20	1	CLASSROOM 209 RECEPTACLES				540			500		ELEVATOR LIGHTS	20	1	L	6
7	R	20	1	CLASSROOM 209 PROJ/SMART BOARD		780			600				VAV BOXES	20	1	O	8
9	R	20	1	CLASSROOM 211 RECEPTACLES			540			900			VAV BOXES	20	1	O	10
11	R	20	1	CLASSROOM 211 RECEPTACLES				540			620		DRINKING FOUNTAIN	20	1	R	12
13	R	20	1	CLASSROOM 211 RECEPTACLES		540			620				DRINKING FOUNTAIN	20	1	R	14
15	R	20	1	CLASSROOM 211 PROJ/SMART BOARD			780			900			TLT/BRK RM RECEPTACLES	20	1	R	16
17	R	20	1	CORRIDOR 218 RECEPTACLES				720			180		BREAKROOM RECEPTACLES	20	1	R	18
19	R	20	1	CONFERENCE ROOM RECEPTACLES		900			360				BREAKROOM RECEPTACLES	20	1	R	20
21		20	1	SPARE			–			540			BREAKROOM RECEPTACLES	20	1	R	22
23		20	1	SPARE				–			1080		CORRIDOR/TLT RECEPTACLES	20	1	R	24
25		20	1	SPARE		–			500				AHU-1 CONTROLS	20	1	O	26
27		20	1	SPARE			–			500			AHU-2 CONTROLS	20	1	O	28
29		20	1	SPARE				–			360		MEZZANINE RECEPTACLES	20	1	R	30
31		20	1	SPARE		–			500				AHU-3 CONTROLS	20	1	O	32
33				PROVISION			–			500			AHU-4 CONTROLS	20	1	O	34
35	O	20	1	ELECTRIC HAND DRYER	(1)			1500			540		ATTIC RECEPTACLES	20	1	R	36
37				PROVISION		–			864				EXHAUST FAN EF-1	20	1	M	38
39	O	20	1	ELECTRIC HAND DRYER	(1)		1500			1176			EXHAUST FAN EF-3	20	1	LM	40
41				PROVISION				–			715		EXH. FAN EF-2/CIRC PUMP CP-1	20	1	M	42

PHASE TOTALS: PH A: 6444 | PH B: 8376 | PH C: 7295

TOTAL CONNECTED VA	22115
PANEL CONNECTED KVA	22.1
PANEL DEMAND KVA	19.9
PANEL DEMAND AMPS	55.1

PANEL NOTES:
- PROVIDE LUGS TO ACCOMMODATE CONDUCTOR SIZING
- PROVIDE FULL SIZE NEUTRAL BAR
- PROVIDE FULL SIZE EQUIPMENT GROUND BAR
- LOCKABLE COVER
- BOLT-ON BREAKERS
- (1) PROVIDE GFCI CIRCUIT BREAKER

CALCULATION BY LOAD TYPE:

LIGHTING	500	VOLTAMPS x 1.25 =	625	VOLTAMPS
RECEPTACLES – 1ST 10KVA	10,000	VOLTAMPS x 1.00 =	10,000	VOLTAMPS
RECEPTACLES – BALANCE	1,860	VOLTAMPS x 0.50 =	930	VOLTAMPS
LARGEST MOTOR LOAD	1,176	VOLTAMPS x 1.25 =	1,470	VOLTAMPS
BALANCE OF MOTOR LOADS	1,579	VOLTAMPS x 1.00 =	1,579	VOLTAMPS
KITCHEN EQUIPMENT	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
ELECTRIC HEATING EQUIPMENT	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
ELECTRIC WATER HEATER	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
AIR CONDITIONING	0	VOLTAMPS x 1.00 =	0	VOLTAMPS
MISC LOADS	7,000	VOLTAMPS x 0.75 =	5,250	VOLTAMPS

TOTAL CALCULATED DEMAND LOAD = 19,854 VOLTAMPS
55.1 FULL LOAD AMPS

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no.	revisions	date
1		
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HARRY HURST MIDDLE SCHOOL WING ADDITION

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PANEL SCHEDULES

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MURRAY ARCHITECTS

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