PANEL: MH (5)

DATE: 03/03/04 TIME: 07:47:53
JOB: 6431

PANEL VOLTAGE: 208/120 3Φ 4 W
BUS: 225A
MAINS: 225A MCB LOCATION: MATERIALS HANDLING BLDG
AIC RATING: 10,000 MOUNTING: SURFACE

CIRCUIT CODE: blank or N : NON-CONTINUOUS
L : LONG-CONTINUOUS
R : DEMANDABLE RECEPTACLES
K : KITCHEN NO. OF EQUIPMENT: 0

CKT NO	CODE	TRIP	POLE	LOAD DESCRIPTION	(NOTE)	M	R	L	ΦA	ΦB	ΦC	ABC	ΦA	ΦB	ΦC	L	R	M	(NOTE)	LOAD DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	L	20	1	LIGHTING				7	1225				360				2			RECEPTS	20	1	R	2
3	L		2	---						1225				540			3			RECEPTS	20	1	R	4
5	L	20	1	LIGHTING				7			1225				540		3			RECEPTS	20	1	R	6
7	L		2	---					1225				500							DOOR OPERATOR	20		N	8
9	L	20		LIGHTING				7		1225				500						–			N	10
11	L		2	---							1225				500					–		3	N	12
13	N	20	1	FOG SYSTEM					500				4500							FOG SYSTEM PUMP	50		N	14
15	N	20	1	WATER SOFTENER						500				4500						–			N	16
17	L	20		LIGHTING				7			1225				4500					–		3	N	18
19	L		2	---					1225				910				4			LIGHTING	20		L	20
21	L	20	1	LIGHTING				4		130				910						–		2	L	22
23	N	20		EF-16							1320				910		4			LIGHTING	20		L	24
25	N			–					1320				910							–		2	L	26
27	N		3	–						1320				1320						EF-14	20		N	28
29	N	20	1	FACP							250				1320					–			N	30
31	N	20	1	SPARE					–				1320							–		3	N	32
33	N	20	1	SPARE						–				1320						EF-15	20		N	34
35	N			---							–				1320					–			N	36
37			3	---					–				1320							–		3	N	38
39	N	20		EH-1						1250				720						SUMP PUMP	20	1	N	40
41	N		2	---							1250				–					SPARE	20	1		42

PANEL NOTES:

SERIES RATING CALCULATION

EF-14 = 4KVA
EF-15 = 4KVA
EF-16 = 4KVA
DOORS = 1.5KVA
FOG = 13.5KVA
SUMP = 0.7KVA
= 27.7KVA/208V, 3Φ = 75A
75 < 1% OF 10K BREAKER

(9)

PHASE TOTALS ΦA: 15315 ΦB: 15460 ΦC: 15585 TOTAL CONNECTED VA 46360

CONNECTED VA (CODE N)	31350
CONNECTED VA (CODE L)	13570
CONNECTED VA (CODE R)	1440
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	46.4
PANEL DEMAND KVA	49.8
PANEL DEMAND AMPS	138.1
HIGH Φ AMPS W/DEMAND	139.4

PANEL: LA

DATE: 03/14/03 TIME: 09:59:42
JOB: 6431

PANEL VOLTAGE: 208/120 3Φ 4 W
BUS: 225A
MAINS: L.O. LOCATION: MECH. CLOSET #F111
AIC RATING: 10,000 MOUNTING: SURFACE

CIRCUIT CODE: blank or N : NON-CONTINUOUS
L : LONG-CONTINUOUS
R : DEMANDABLE RECEPTACLES
K : KITCHEN NO. OF EQUIPMENT: 0

CKT NO	CODE	TRIP	POLE	LOAD DESCRIPTION	(NOTE)	M	R	L	ΦA	ΦB	ΦC	ABC	ΦA	ΦB	ΦC	L	R	M	(NOTE)	LOAD DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	L	20	1	LTG				15	1110				775			5				EXT LIGHTS	20		L	2
3	L	20	1	LTG				11		1050				775		5				–		2	L	4
5	L	20	1	LTG – CREW RM F110				16			1396				775	5				EXT LIGHTS	20		L	6
7	L	20	1	LTG – CREW RM F110				16	1396				775			5				–		2	L	8
9	L	20	1	LTG – WOMENS RR				16		1152				1365		6				EXT LIGHTS	20		L	10
11	L	20	1	LTG – MENS RR				16			1090				1365	6				–		2	L	12
13	L	20	1	LTG – CREW RM F122				10	1200				1365			6				EXT LIGHTS	20		L	14
15	L	20	1	LTG – CREW RM F122				10		1200				1365		6				–		2	L	16
17	L	20	1	LTG – OFFICE F125				11			1350				250					IRRIG. CONTROL	20	1	N	18
19	L	20	1	LTG – HALL F138				10	1126				–							SPARE	20	1		20
21	L	20	1	LTG – OFFICES				15		1350				–						SPARE	20	1		22
23	L	20	1	LTG – OFFICES				14			1320				–					SPARE	20	1		24
25	L	20	1	LTG – RECEPTION F101				20	1592				–							SPARE	20	1		26
27	L	20	1	LTG – CONFERENCE F104				8		1200				–						SPARE	20	1		28
29	L	20	1	LTG – CONFERENCE F104				10			1140				–					SPARE	20	1		30
31	L	20	1	LTG – BLDG EXT				12	1140				–							SPARE	20	1		32
33	L	20	1	LTG – BLDG EXT				5		650				180						GATE RECEPT	20	1	N	34
35		20	1	SPARE					–						480					GATE MOTOR	20	1	N	36
37		20	1	SPARE						–			480							GATE MOTOR	20	1	N	38
39		20	1	SPARE							–			480						GATE MOTOR	20	1	N	40
41		20	1	SPARE								–			480					GATE MOTOR	20	1	N	42

PANEL NOTES:

PHASE TOTALS ΦA: 10959 ΦB: 10767 ΦC: 9646 TOTAL CONNECTED VA 31372

CONNECTED VA (CODE N)	2170
CONNECTED VA (CODE L)	29022
CONNECTED VA (CODE R)	180
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	31.4
PANEL DEMAND KVA	38.6
PANEL DEMAND AMPS	107.2
HIGH Φ AMPS W/DEMAND	113.2

PANEL: LB

DATE: 03/14/03 TIME: 09:54:55
JOB: 6431

PANEL VOLTAGE: 208/120 3Φ 4 W
BUS: 225A
MAINS: L.O. LOCATION: MECH CLOSET F111
AIC RATING: 10,000 MOUNTING: SURFACE

CIRCUIT CODE: blank or N : NON-CONTINUOUS
L : LONG-CONTINUOUS
R : DEMANDABLE RECEPTACLES
K : KITCHEN NO. OF EQUIPMENT: 0

CKT NO	CODE	TRIP	POLE	LOAD DESCRIPTION	(NOTE)	M	R	L	ΦA	ΦB	ΦC	ABC	ΦA	ΦB	ΦC	L	R	M	(NOTE)	LOAD DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	R	20	1	SITE RECEPTS				3	540				480							GATE MOTOR	20	1	N	2
3	R	20	1	SITE RECEPTS				3		540				480						GATE MOTOR	20	1	N	4
5	R	20	1	SITE RECEPTS				2			360				180					GATE RECEPT	20	1	R	6
7	R	20	1	RECEPTS				7	1260				1080					6		RECEPTS	20	1	R	8
9	R	20	1	RECEPTS				7		1260				1260				7		RECEPTS	20	1	R	10
11	R	20	1	RECEPTS				7			1260				1080			6		RECEPTS	20	1	R	12
13	R	20	1	RECEPTS					180				180							RECEPTS	20	1	R	14
15	R	20	1	RECEPTS						180				180						RECEPTS	20	1	R	16
17	N	20	1	EWC							250				250					EWC	20	1	N	18
19	R	20	1	RECEPTS				7	1260				1080					6		RECEPTS	20	1	R	20
21	R	20	1	RECEPTS				5		900				900				5		RECEPTS	20	1	R	22
23	R	20	1	RECEPTS				7			1260				900			5		RECEPTS	20	1	R	24
25	R	20	1	BREAKROOM RECEPTS				2	360				720					4		RECEPTS	20	1	R	26
27	R	20	1	BREAKROOM RECEPTS				2		360				480						GATE MOTOR	20	1	N	28
29	R	20	1	BREAKROOM RECEPTS				1			720				480					GATE MOTOR	20	1	N	30
31		20	1	SPARE					–				–							SPARE	20	1		32
33		20	1	SPARE						–				–						SPARE	20	1		34
35	R	20	1	RECEPTS				3			540				–					SPARE	20	1		36
37	R	20	1	RECEPTS				3	540				720							EF-1	20	1	N	38
39	R	20	1	RECEPTS				2		360				1200						EF-2	20	1	N	40
41	N	20	1	HCP-1, WH-1							500				500					FA PANEL	20	1	N	42

PANEL NOTES:

PHASE TOTALS ΦA: 8400 ΦB: 8100 ΦC: 8280 TOTAL CONNECTED VA 24780

CONNECTED VA (CODE N)	5340
CONNECTED VA (CODE L)	0
CONNECTED VA (CODE R)	19440
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	24.8
PANEL DEMAND KVA	20.1
PANEL DEMAND AMPS	55.7
HIGH Φ AMPS W/DEMAND	56.6

APPROVAL IS FOR CLOUDED AREAS ONLY. SEE ORIGINALS (10)

PANEL: LC

DATE: 02/11/04 TIME: 13:31:34
JOB: 6431

PANEL VOLTAGE: 208/120 3Φ 4 W
BUS: 225A
MAINS: L.O. LOCATION: MECH CLOSET
AIC RATING: 10,000 MOUNTING: SURFACE

CIRCUIT CODE: blank or N : NON-CONTINUOUS
L : LONG-CONTINUOUS
R : DEMANDABLE RECEPTACLES
K : KITCHEN NO. OF EQUIPMENT: 0

CKT NO	CODE	TRIP	POLE	LOAD DESCRIPTION	(NOTE)	M	R	L	ΦA	ΦB	ΦC	ABC	ΦA	ΦB	ΦC	L	R	M	(NOTE)	LOAD DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	R	20	1	MODULAR FURNITURE				5	900				1080					6		MODULAR FURNITURE	20	1	R	2
3	R	20	1	MODULAR FURNITURE				5		900				1080				6		MODULAR FURNITURE	20	1	R	4
5	R	20	1	MODULAR FURNITURE				5			900				1080			6		MODULAR FURNITURE	20	1	R	6
7	R	20	1	MODULAR FURNITURE				5	900				1080					6		MODULAR FURNITURE	20	1	R	8
9	R	20	1	MODULAR FURNITURE				5		900				1080				6		MODULAR FURNITURE	20	1	R	10
11	R	20	1	MODULAR FURNITURE				5			900				1080			6		MODULAR FURNITURE	20	1	R	12
13	R	20	1	MODULAR FURNITURE				6	1080				720					4		MODULAR FURNITURE	20	1	R	14
15	R	20	1	MODULAR FURNITURE				6		1080				720				4		MODULAR FURNITURE	20	1	R	16
17	R	20	1	MODULAR FURNITURE				6			1080				720			4		MODULAR FURNITURE	20	1	R	18
19	R	20	1	RECEPTS				5	1080				900					5		RECEPTS	20	1	R	20
21	R	20	1	RECEPTS				7		1260				900				5		RECEPTS	20	1	R	22
23	R	20	1	RECEPTS				7			1260				900			5		RECEPTS	20	1	R	24
25	N	20	1	COPIER				1	1 500				500					1		COPIER	20	1	N	26
27	R	20	1	RECEPTS				4		720				360				2		RECEPTS	20	1	R	28
29	R	20	1	RECEPTS				2			360				360			2		RECEPTS	20	1	R	30
31		20	1	SPARE					–				–							SPARE	20	1		32
33		20	1	SPARE						–				–						SPARE	20	1		34
35		20	1	SPARE							–				–					SPARE	20	1		36
37		20	1	SPARE					–				–							SPARE	20	1		38
39		20	1	SPARE						–				–						SPARE	20	1		40
41		20	1	SPARE							–				–					SPARE	20	1		42

PANEL NOTES:

1. FURNISH WITH ISOLATED GROUND BUS.

PHASE TOTALS ΦA: 8740 ΦB: 9000 ΦC: 8640 TOTAL CONNECTED VA 26380

CONNECTED VA (CODE N)	1000
CONNECTED VA (CODE L)	0
CONNECTED VA (CODE R)	25380
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	26.4
PANEL DEMAND KVA	18.7
PANEL DEMAND AMPS	51.9
HIGH Φ AMPS W/DEMAND	75.0

PANEL: LD

DATE: 03/03/03 TIME: 07:09:02 (9)
JOB: 6431

PANEL VOLTAGE: 208/120 3Φ 4 W
BUS: 400A
MAINS: L.O. LOCATION: MECHANICAL CLOSET F111
AIC RATING: 22,000 MOUNTING: SURFACE

CIRCUIT CODE: blank or N : NON-CONTINUOUS
L : LONG-CONTINUOUS
R : DEMANDABLE RECEPTACLES
K : KITCHEN NO. OF EQUIPMENT: 0

CKT NO	CODE	TRIP	POLE	LOAD DESCRIPTION	(NOTE)	M	R	L	ΦA	ΦB	ΦC	ABC	ΦA	ΦB	ΦC	L	R	M	(NOTE)	LOAD DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	N	25		AC-1					2280				3936							AC-8	40		N	2
3	N			–						2280				3936						–		3	N	4
5	N		3	–							2280				3936					–		3	N	6
7	N	30		AC-2					2700				3936							AC-9	40		N	8
9	N			–						2700				3936						–			N	10
11	N		3	–							2700				3936					–		3	N	12
13	N	40		AC-3					3936				3936							AC-10	40		N	14
15	N			–						3936				3936						–			N	16
17	N		3	–							3936				3936					–		3	N	18
19	N	25		AC-4					2280				3936							AC-11	40		N	20
21	N			–						2280				3936						–			N	22
23	N		3	–							2280				3936					–		3	N	24
25	N	30		AC-5					2700				540							AC-12A	15		N	26
27	N			–						2700				540						–		2	N	28
29	N		3	–							2700				1740					AC-12B	20		N	30
31	N	30		AC-6					2700				1740							–		2	N	32
33	N			–						2700				2700						AC-13				34
35	N		3	–							2700				2700					–				36
37	N	30		AC-7					2700				2700							–				38
39	N			–						2700					–					SPARE	20	1		40
41	N		3	–							2700					–				SPARE	20	1		42

PANEL NOTES:

PHASE TOTALS ΦA: 40020 ΦB: 38280 ΦC: 39480 TOTAL CONNECTED VA 117780

CONNECTED VA (CODE N)	117780
CONNECTED VA (CODE L)	0
CONNECTED VA (CODE R)	0
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	117.8
PANEL DEMAND KVA	117.8
PANEL DEMAND AMPS	327.0
HIGH Φ AMPS W/DEMAND	333.5

PANEL: LE

DATE: 03/03/03 TIME: 07:07:48
JOB: 6431

PANEL VOLTAGE: 208/120 3Φ 4 W
BUS: 225A
MAINS: L.O. LOCATION: IT ROOM F109
AIC RATING: 10,000 MOUNTING: SURFACE

CIRCUIT CODE: blank or N : NON-CONTINUOUS
L : LONG-CONTINUOUS
R : DEMANDABLE RECEPTACLES
K : KITCHEN NO. OF EQUIPMENT: 0

CKT NO	CODE	TRIP	POLE	LOAD DESCRIPTION	(NOTE)	M	R	L	ΦA	ΦB	ΦC	ABC	ΦA	ΦB	ΦC	L	R	M	(NOTE)	LOAD DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	R	20	1	RECEPTS				2	360				500							SEC PANEL	20	1	N	2
3	R	20	1	RECEPTS				2		360				–						SPARE	20	1		4
5	R	20	1	RECEPTS				1			180				–					SPARE	20	1		6
7		20	1	SPARE					–				–							SPARE	20	1		8
9		20	1	SPARE						–				–						SPARE	20	1		10
11		20	1	SPARE							–				–					SPARE	20	1		12
13		20	1	SPARE					–				–							SPARE	20	1		14
15		20	1	SPARE						–				–						SPARE	20	1		16
17		20	1	SPARE							–				–					SPARE	20	1		18
19		20	1	SPARE					–				–							SPARE	20	1		20
21		20	1	SPARE						–				–						SPARE	20	1		22
23		20	1	SPARE							–				–					SPARE	20	1		24
25		20	1	SPARE					–				–							SPARE	20	1		26
27		20	1	SPARE						–				–						SPARE	20	1		28
29		20	1	SPARE							–				–					SPARE	20	1		30
31		20	1	SPARE					–				–							SPARE	20	1		32
33		20	1	SPARE						–				–						SPARE	20	1		34
35		20	1	SPARE							–				–					SPARE	20	1		36
37	N	20		SDC-1					1320				–							SPARE	20	1		38
39	N			---						1320				–						SPARE	20	1		40
41	N		3	---							1320				–					SPARE	20	1		42

PANEL NOTES:

(1)

PHASE TOTALS ΦA: 6710 ΦB: 5640 ΦC: 4420 TOTAL CONNECTED VA 16770

CONNECTED VA (CODE N)	13390
CONNECTED VA (CODE L)	480
CONNECTED VA (CODE R)	2900
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	16.8
PANEL DEMAND KVA	16.9
PANEL DEMAND AMPS	46.9
HIGH Φ AMPS W/DEMAND	55.9

PANEL: LBA

DATE: 08/29/02 TIME: 14:38:29
JOB: 6431

PANEL VOLTAGE: 208/120 3Φ 4 W
BUS: 225A
MAINS: L.O. LOCATION: STORAGE M108
AIC RATING: 10,000 MOUNTING: SURFACE

CIRCUIT CODE: blank or N : NON-CONTINUOUS
L : LONG-CONTINUOUS
R : DEMANDABLE RECEPTACLES
K : KITCHEN NO. OF EQUIPMENT: 0

CKT NO	CODE	TRIP	POLE	LOAD DESCRIPTION	(NOTE)	M	R	L	ΦA	ΦB	ΦC	ABC	ΦA	ΦB	ΦC	L	R	M	(NOTE)	LOAD DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	L	20	1	LIGHTING				11	660				910							EXT LIGHTS	20		L	2
3	L	20	1	LIGHTING				16		960				910						–		2	L	4
5	L	20	1	LIGHTING				24			1440				910					EXT LIGHTS	20		L	6
7	L	20	1	LTG – BLDG EXT				8	1170				910							–		2	L	8
9	R	20	1	RECEPTS				4		720				2250						WH-2	30		N	10
11	R	20	1	RECEPTS				3			540				2250					–		2	N	12
13	R	20	1	RECEPTS				4	720				720							EF-8	20	1	N	14
15	R	20	1	RECEPTS				4		720				720						EF-9	20	1	N	16
17	R	20	1	RECEPTS				4			720				720					EF-10	20	1	N	18
19	R	20	1	RECEPTS				3	540				720							EF-3	20	1	N	20
21	N	20	1	FACP						180				720						EF-4	20	1	N	22
23	N	20		MACHINE SHOP							500				720					EF-5	20	1	N	24
25	N		2	---					500				720							EF-6	20	1	N	26
27	N	20	1	SECURITY PANEL						500				720						EF-7	20	1	N	28
29	N	20	1	EC-4							180				720					EF-13	20	1	N	30
31	N	20		EH-2					1250				1200							EC-1	20	1	N	32
33	N		2	---						1250				1200						EC-2	20	1	N	34
35	N	20	1	RECEPT							2500				1200					EC-3	20	1	N	36
37	N	20	1	–					2500				500						(1)	HEAT TRACE	20		N	38
39	N	20	1	RECEPT						2500				500						---		2	N	40
41	N	20	1	–							2500				360		2			TELEPHONE BD.	20	1	N	42

PANEL NOTES:

(1) 30ma GFI BREAKER.

2. FURNISH WITH FEED THRU LUGS FOR FUTURE USE.

PHASE TOTALS ΦA: 13020 ΦB: 13850 ΦC: 15260 TOTAL CONNECTED VA 42130

CONNECTED VA (CODE N)	30300
CONNECTED VA (CODE L)	7870
CONNECTED VA (CODE R)	3960
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	42.1
PANEL DEMAND KVA	44.1
PANEL DEMAND AMPS	122.4
HIGH Φ AMPS W/DEMAND	132.1

PANEL: LBB

DATE: 02/04/04 TIME: 08:13:47
JOB: 6431

PANEL VOLTAGE: 208/120 3Φ 4 W
BUS: 225A
MAINS: L.O. LOCATION: WELDING SHOP M106
AIC RATING: 10,000 MOUNTING: SURFACE

CIRCUIT CODE: blank or N : NON-CONTINUOUS
L : LONG-CONTINUOUS
R : DEMANDABLE RECEPTACLES
K : KITCHEN NO. OF EQUIPMENT: 0

CKT NO	CODE	TRIP	POLE	LOAD DESCRIPTION	(NOTE)	M	R	L	ΦA	ΦB	ΦC	ABC	ΦA	ΦB	ΦC	L	R	M	(NOTE)	LOAD DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	N	20		METAL SAW					1666				500							GRINDER	20	1	N	2
3	N			---						1666				500						RECEPT	20	1	N	4
5	N		3	---							1666				500					RECEPT	20	1	N	6
7	N	50		WIRE FEED WELDER					3960				500							RECEPT	20	1	N	8
9	N			---						3960				500						RECEPT	20	1	N	10
11	N		3	---							3960				500					RECEPT	20	1	N	12
13	L	20	1	LIGHTS				8	480				1200							WES-1	20	1		14
15	N	20	1	EF-11						1200				–						SPARE	20	1		16
17	N	20	1	SFD							500				–					SPARE	20	1		18
19		20	1	SPARE					–				–							SPARE	20	1		20
21		20	1	SPARE						–				–						SPARE	20	1		22
23		20	1	SPARE							–				–					SPARE	20	1		24
25		20	1	SPARE					–				–							SPARE	20	1		26
27		20	1	SPARE						–				–						SPARE	20			28
29		20	1	SPARE							–				–					---		2		30
31		20	1	SPARE					–				–							SPARE	20			32
33		20	1	SPARE						–				–						---		2		34
35		20	1	SPARE							–				–					SPARE	20	1		36
37		20	1	SPARE					–				–							SPARE	20	1		38
39	N	25		MULTIPROCESS WELDER						13440				–						SPARE	20	1		40
41	N		2	---							13440				–					SPARE	20	1		42

PANEL NOTES:

(8)

PHASE TOTALS ΦA: 8306 ΦB: 21266 ΦC: 20566 TOTAL CONNECTED VA 50138

CONNECTED VA (CODE N)	49658
CONNECTED VA (CODE L)	480
CONNECTED VA (CODE R)	0
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	50.1
PANEL DEMAND KVA	50.3
PANEL DEMAND AMPS	139.5
HIGH Φ AMPS W/DEMAND	177.2

PANEL: LBC

DATE: 06/11/02 TIME: 08:03:01
JOB: 6431

PANEL VOLTAGE: 208/120 3Φ 4 W
BUS: 225A
MAINS: L.O. LOCATION: CARPENTER SHOP M105
AIC RATING: 10,000 MOUNTING: SURFACE, NEMA 4

CIRCUIT CODE: blank or N : NON-CONTINUOUS
L : LONG-CONTINUOUS