

EXISTING PANELBOARD				LD1		LOCATION: ELECTRICAL 2092		FED FROM: MDS					
600 AMP MRL				480Y/277V		3 PH 4 W		MOUNT: SURFACE		PANEL ALARMING RATED (KAIC): EXISTING			
CKT	BKRK	POLE	LOAD	A	B	C	LOAD	POLE	BKRK	CKT			
1	20 A	1	SPARE	0.0	0.0		SPARE	1	20 A	2			
3	20 A	1	LTG 2070-2106		1.8	2.4	LTG 2083-2103	1	20 A	4			
5	20 A	1	SPARE			0.0	0.0	1	20 A	6			
7	20 A	1	SPARE	0.0	0.0		SPARE	1	20 A	8			
9	20 A	1	SPARE		0.0	0.0		1	20 A	10			
11	20 A	1	LTG 2060-2068			1.1	1.0	LTG 2012, 2010, 2008A, 2011	1	20 A	12		
13	20 A	1	SPARE	0.0	0.0		SPARE	1	20 A	14			
15	20 A	1	SPARE		0.0	0.0	SPARE	1	20 A	16			
17	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	18		
19				7.6	4.8								
21	350 A	3	PD01 VIA TDD1		1.8	0.0	PD02VIA TDD2	3	225 A	20			
23	--	--				3.3	0.0			24			
25	--	--	SPACE ONLY	0.0	0.0			SPACE ONLY	--	26			
27	--	--	SPACE ONLY		0.0	0.0		SPACE ONLY	--	28			
29	--	--	SPACE ONLY			0.0	0.0	SPACE ONLY	--	30			
31	--	--	SPACE ONLY	0.0	0.0			SPACE ONLY	--	32			
33	--	--	SPACE ONLY		0.0	0.0		SPACE ONLY	--	34			
35	--	--	SPACE ONLY			0.0	0.0	SPACE ONLY	--	36			
37	--	--	SPACE ONLY	0.0	0.0			SPACE ONLY	--	38			
39	--	--	SPACE ONLY		0.0	0.0		SPACE ONLY	--	40			
41	--	--	SPACE ONLY			0.0	0.0	SPACE ONLY	--	42			
				12 kVA	6 kVA	5 kVA							
				45 A	22 A	19 A							

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6.50mA PER 2008 NEC 42.22. DED. NEUTRAL. (EB) = EXISTING BREAKER
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4.5mA PER 2008 NEC 210.8. DED. NEUTRAL. (RB) = REPLACE BREAKER WITH SIZE INDICATED
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG 4.X. (PB) = REPLACE BREAKER IN EXISTING SPACE
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

LOADS FOR EXISTING CIRCUITS ARE ASSUMED

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	6.28 kVA	125.00%	7.85 kVA	Total Conn. Load: 23.7 kVA
EXTERIOR LIGHTING	0.00 kVA	0.00%	0.00 kVA	
RECEPTACLES	5.04 kVA	100.00%	5.04 kVA	Total Est. Demand: 25.3 kVA
AC/ HEAT PUMP	9.50 kVA	100.00%	9.50 kVA	Total Conn. Current: 29 A
ELECTRIC HEAT	0.00 kVA	0.00%	0.00 kVA	Total Est. Demand... 30 A
KITCHEN	0.00 kVA	0.00%	0.00 kVA	
MISCELLANEOUS	2.90 kVA	100.00%	2.90 kVA	

EXISTING PANELBOARD				LF1		LOCATION: ELECTRICAL 2031		FED FROM: MDS	
600 AMP MLO				480Y/277V		3 PH 4 W		MOUNT: SURFACE	
						PANEL ASSEMBLY RATED (KAIC): 10 KAIC			
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR
CKT	BRKR	POLE							CKT
1	20 A	1	SPARE	0.0	0.0		SPARE	1	20 A
3	20 A	1	LTG 2033 - 2052		1.9	2.2	LTG 2014 - 2040	1	20 A
5	20 A	1	SPARE			0.0	0.0	SPARE	1
7	20 A	1	SPARE	0.0	0.0			SPARE	1
9	20 A	1	SPARE		0.0	0.0		SPARE	1
11	20 A	1	LTG 2001, 2008			1.7	1.7	LTG 2001 - 2006	1
13	20 A	1	SPARE	0.0	0.0			SPARE	1
15	20 A	1	SPARE		0.0	2.0	CORRIDOR LTG	1	20 A
17	20 A	1	SPARE			0.0	0.0	SPARE	1
19				6.9	7.3				20
21	225 A	3	PDF1 VIA TDF1		1.1	0.0	PDF2 VIA TF2	3	350 A
23	--	--				0.0	0.0		24
25	--	--	SPACE ONLY	0.0	A			SPACE ONLY	--
27	--	--	SPACE ONLY		0.0	0.0		SPACE ONLY	--
29	--	--	SPACE ONLY				0.0	0.0	SPACE ONLY
31	--	--	SPACE ONLY	0.0	0.0			SPACE ONLY	--
33	--	--	SPACE ONLY		0.0	0.0		SPACE ONLY	--
35	--	--	SPACE ONLY			0.0	0.0	SPACE ONLY	--
37	--	--	SPACE ONLY	0.0	0.0			SPACE ONLY	--
39	--	--	SPACE ONLY		0.0	0.0		SPACE ONLY	--
41	--	--	SPACE ONLY			0.0	0.0	SPACE ONLY	--
				14 kVA	7 kVA	3 kVA			
				53 A	28 A	12 A			

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT. 6-50mA PER 2000 NEC 427.22. DED. NEUTRAL. (EB) = EXISTING BREAKER
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4.6mA PER 2008 NEC 210.8. DED. NEUTRAL. (RB) = REPLACE BREAKER WITH SIZE INDICATED
(LC) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING. (FB) = PROVIDE BREAKER IN EXISTING SPACE
(LC) = ROUTE TO LOAD VIA LIGHTING CABLETRAY, REF DETAIL ON DWG. E.4.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

LOADS FOR EXISTING CIRCUITS ARE ASSUMED

Load Classification	Connected Load	Demand Factor	Estimated Demand	Pannel Totals
INTERIOR LIGHTING	9.47 kVA	125.00%	11.83 kVA	Total Conn. Load: 24.7 kVA Total Est. Demand: 27.1 kVA Total Conn. Current: 30 A Total Est. Demand... 33 A
EXTERIOR LIGHTING	0.00 kVA	0.00%	0.00 kVA	
RECEPTACLES	0.36 kVA	100.00%	0.36 kVA	
AC / HEAT PUMP	14.48 kVA	100.00%	14.48 kVA	
ELECTRIC HEAT	0.00 kVA	0.00%	0.00 kVA	
KITCHEN	0.00 kVA	0.00%	0.00 kVA	
MISCELLANEOUS	0.40 kVA	100.00%	0.40 kVA	