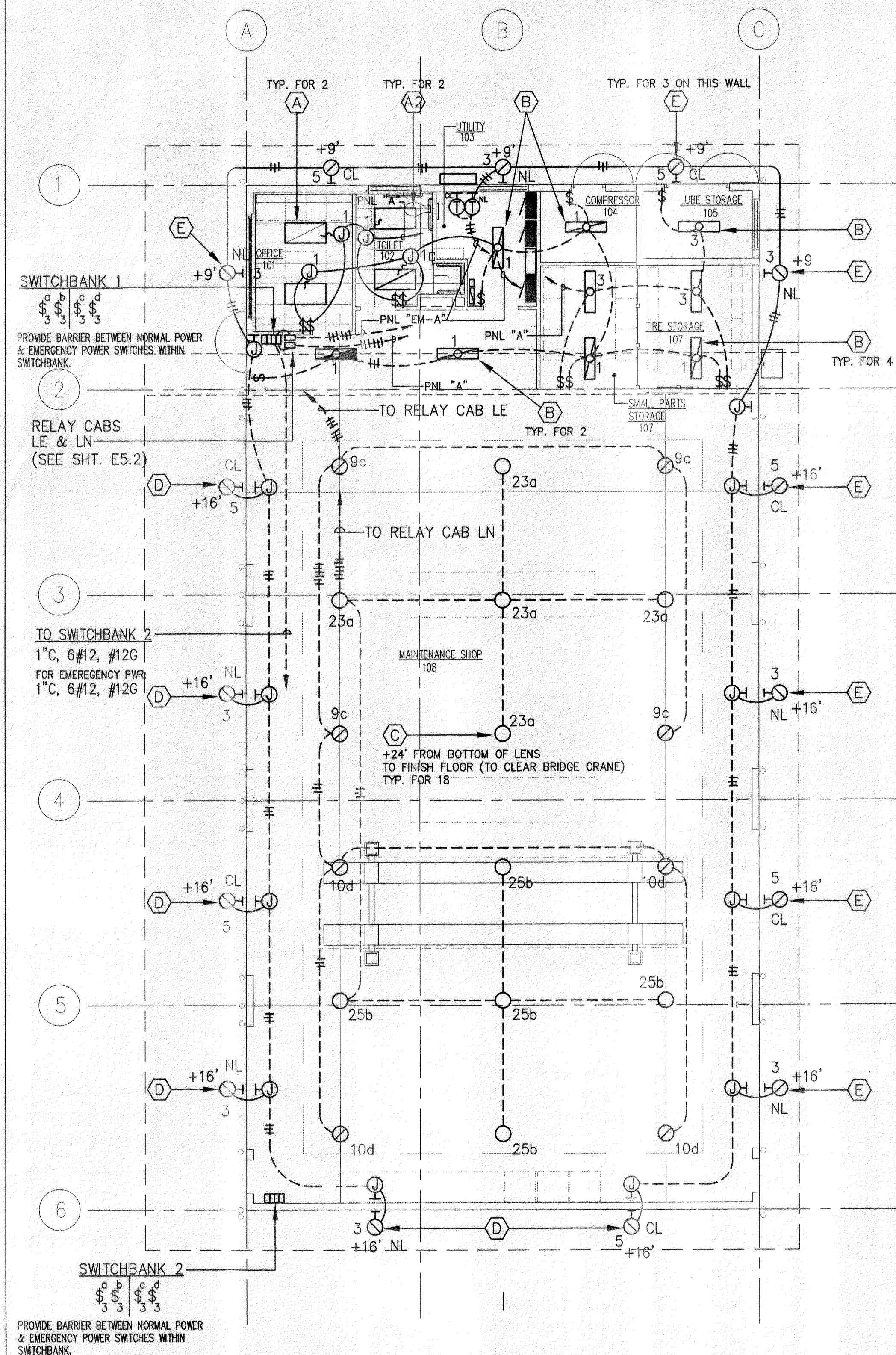
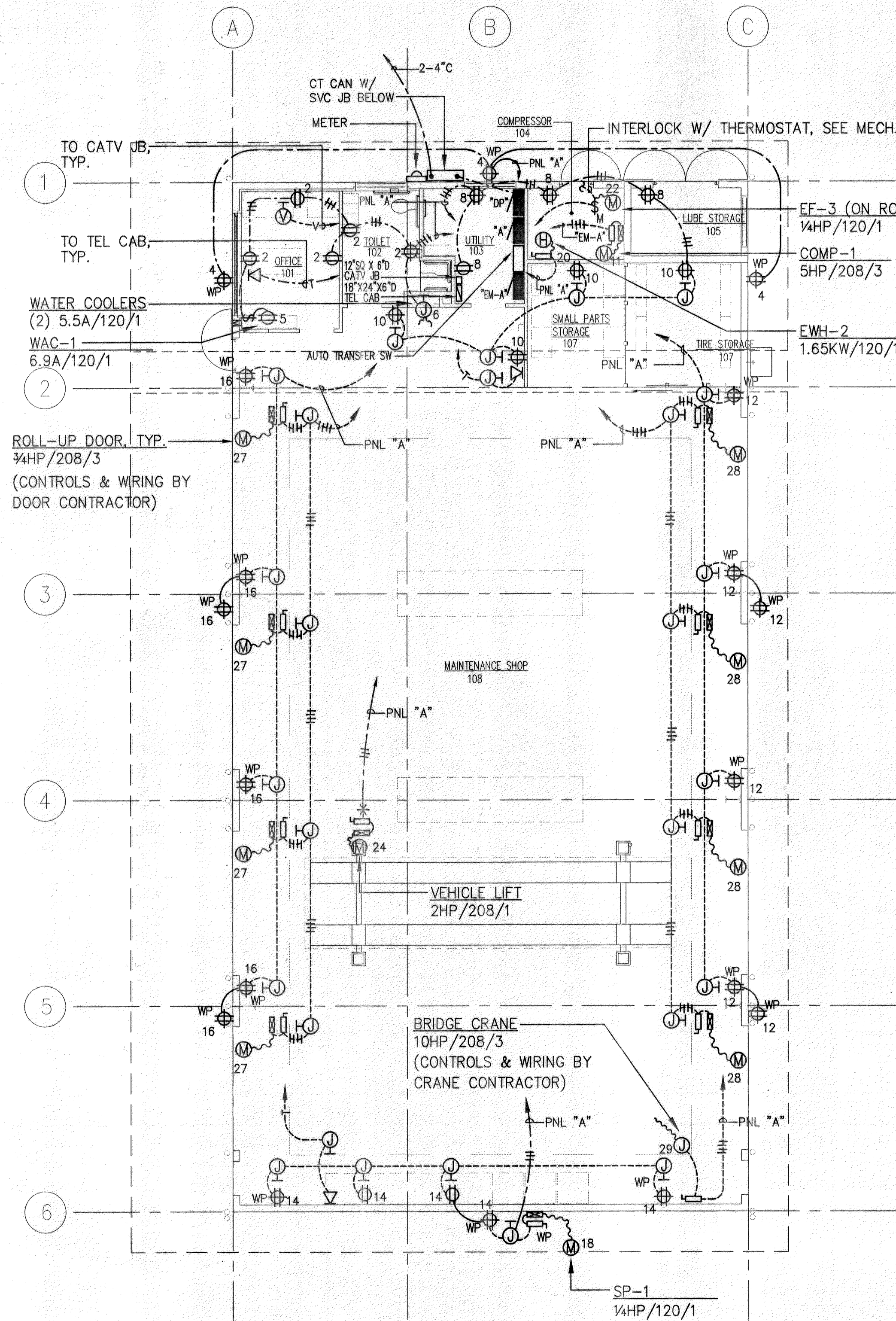


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-05-98	2002	93	99



MAINTENANCE BUILDING - LIGHTING PLAN
SCALE: 1/8" = 1'-0"



MAINTENANCE BUILDING - ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

- NOTES:**
- ALL RECEPTACLES AND TEL OUTLETS IN THIS BUILDING (WITH THE EXCEPTION OF THE OFFICE, TOILET AND UTILITY ROOMS) SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 30" ABOVE FINISHED FLOOR.
 - ELECTRICAL EQUIPMENT AND WIRING SHALL COMPLY WITH NEC ARTICLE 511. ENTIRE MAINTENANCE SHOP AREA SHALL BE CONSIDERED CLASS I, DIVISION 2 UP TO 18" ABOVE FINISH FLOOR.
 - PROVIDE EXPLOSION PROOF FITTINGS AND SEAL FOR ALL RISERS UP TO PANELS FROM WIRING WITHIN HAZARDOUS LOCATIONS. UP TO 18" ABOVE FINISH FLOOR.

PANEL "A" 208Y/120 VOLTS, 3 PHASE, 4 WIRE SOLID NEUT
TWO-SECTION, PANELS IDENTICAL, EXCEPT
3P225 A MAIN BKR / A LUGS ONLY/TWIN, SURFACE/FLUSH/SEMI-FLUSH
LOAD-CENTER/INDUSTRIAL BOLTED (OTHER SPECIAL FEATURES, GND BUS)

CIRCUIT NO.	BREAKERS POLE/AMPS	USE: S-S-SPARE, L-LIGHTS, R-RECEPTACLES, PFB-PROV. FUTURE BKRS	KVA ON BUSSES			WIRE SIZE
			A	B	C	
1	1 20	L - OFFICE, TOILET	0.3			12
2	1 20	R - OFFICE, TOILET	1.0			12
3	1 20	L - LUBE, SMALL PARTS, TIRE		0.3		12
4	1 20	R - EXTERIOR		0.6		12
5	1 20	WAC-1			0.8	-
6	1 20	WATER COOLERS			1.1	12
7	1 20	S	1.0			-
8	1 20	R - UTILITY, COMPRESSOR, LUBE	0.8			12
9	1 20	S		1.0		-
10	1 20	R - SHOP, SMALL PART, TIRE		0.8		12
11	1 20	S			1.0	-
12	1 20	R - SHOP, EXTERIOR (EAST WALL)			1.2	12
13	1 20	S	1.0			-
14	1 20	R - SHOP, EXTERIOR (SOUTH WALL)	1.0			12
15	1 20	S		1.0		-
16	1 20	R - SHOP, EXTERIOR (WEST WALL)		1.2		12
17	1 20	S			1.0	-
18	1 20	SP-1			0.7	12
19	1 20	S	1.0			-
20	1 20	EWB-2	1.7			12
21	1 20	S		1.0		-
22	1 20	EF-3		0.7		12
23	2 20	L - SHOP (SWITCH "a")	1.3		1.3	12
24	2 30	VEHICLE LIFT	1.4		1.4	10
25	2 20	L - SHOP (SWITCH "b")		1.3	1.3	12
26	2 -	PFB				-
27	3 30	ROLL-UP DOORS (WEST)	1.7	1.7	1.7	10
28	3 30	ROLL-UP DOORS (EAST)	1.7	1.7	1.7	10
29	3 60	BRIDGE CRANE	3.7	3.7	3.7	6
30	3 -	PFB				-
			17.6	15.0	16.9	TOTALS

ALLOWED KVA 49.5
DEMAND FACTOR USED82
DEMAND KVA 40.5

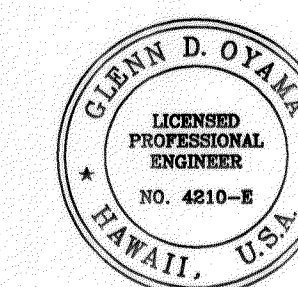
10,000 AIC MIN
SERIES RATED @ 100,000 AIC

PANEL "EM-A" 208Y/120 VOLTS, 3 PHASE, 4 WIRE SOLID NEUT
TWO-SECTION, PANELS IDENTICAL, EXCEPT
3P250 A MAIN BKR / A LUGS ONLY/TWIN, SURFACE/FLUSH/SEMI-FLUSH
LOAD-CENTER/INDUSTRIAL BOLTED (OTHER SPECIAL FEATURES, GND BUS)

CIRCUIT NO.	BREAKERS POLE/AMPS	USE: S-S-SPARE, L-LIGHTS, R-RECEPTACLES, PFB-PROV. FUTURE BKRS	KVA ON BUSSES			WIRE SIZE
			A	B	C	
1	1 20	L - GENERAL AREAS	0.9			12
2	1 20	S	1.0			12
3	1 20	L - EXTERIOR NL CIRCUIT		1.6		12
4	1 20	S		1.0		12
5	1 20	L - EXTERIOR CL CIRCUIT			1.4	12
6	1 20	S			1.0	-
7	1 20	S	1.0			-
8	1 20	S	1.0			-
9	2 20	L - SHOP (SWITCH "c")		1.0	1.0	12
10	2 20	L - SHOP (SWITCH "d")		1.0	1.0	12
11	3 30	COMP-1	1.8	1.8	1.8	10
12	3 50	PNL "EM-B" (LOCATED IN OFFICE BUILDING)	4.0	4.3	4.5	6
13						
14						
			9.7	10.7	10.7	TOTALS

ALLOWED KVA 31.1
DEMAND FACTOR USED84
DEMAND KVA 26.1

10,000 AIC MIN
SERIES RATED @ 100,000 AIC



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Glenn D. Oyama

MAINTENANCE BUILDING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
LIGHTING PLAN, POWER AND SIGNAL PLAN, PNL SCHEDLS
MOLOKAI BASEYARD
MOLOKAI INDUSTRIAL PARK
Project No. HWY-M-05-98

Scale: As Noted Date: SEPT. 13, 2001

SHEET No. E2.2 OF E2.4 SHEETS