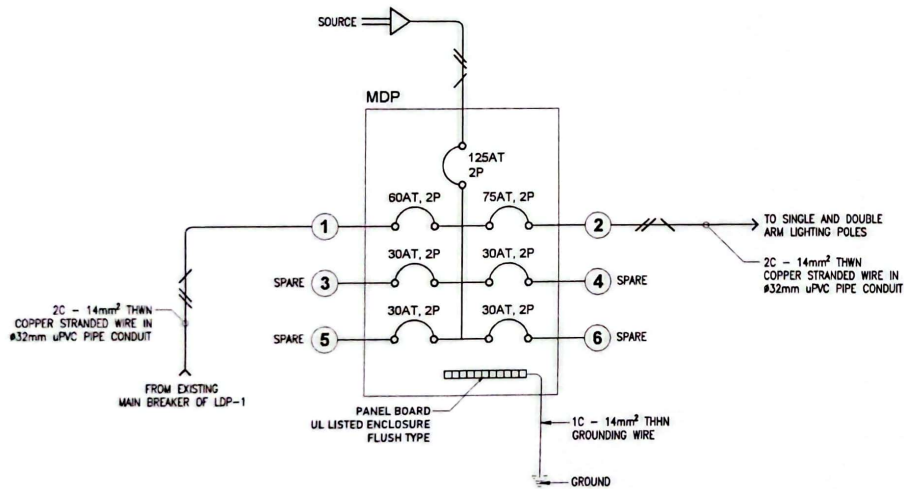


# SCHEDULE OF LOADS

MAIN DISTRIBUTION PANEL																		
CKT NO.	C.B. RATING				CONNECTED LOADS							VA	AMPS	FEEDER			RACEWAY	
	VOLTS	AT	AF	POLE	LO	CO	SPO	EL	OTHERS	DESCRIPTION OF LOADS	WIRE			SIZE (mm2)	TYPE	SIZE (mm2)	CONDUIT	
1	230	60	100	2						EXISTING MAIN BREAKER OF LDP-1	6500	28.26	2	14	THHN	32	uPVC	
2	230	75	100	2	30					SINGLE AND DOUBLE ARM LIGHTING POLES	6000	26.09	2	14	THHN	32	uPVC	
3	230	30	50	2					1	SPARE	1200	5.22	2	3.5	THHN	25	uPVC	
4	230	30	50	2					1	SPARE	1200	5.22	2	3.5	THHN	25	uPVC	
5	230	30	50	2					1	SPARE	1200	5.22	2	3.5	THHN	25	uPVC	
6	230	30	50	2					1	SPARE	1200	5.22	2	3.5	THHN	25	uPVC	
TOTAL	230	125	150	2	30	0	0	0	4	MAIN	17300	75.22	2	38-14	THWN	40	uPVC	



## COMPUTATION OF CONNECTED LOADS

### TOTAL LOADS:

OTHER LOADS	=	6,500VA
LIGHTING LOADS	=	6,000VA
SPARE (4)	=	4,800VA
TOTAL	=	17,300VA

### COMPUTATION:

$I$	=	75.22 AMPERES
$I_L$	=	$75.22A \times 1.25$
$I_t$	=	94.02 AMPERES

### MAIN FEEDER CONDUCTOR:

USE:  
 2C - 2C-38mm² THWN COPPER STRANDED WIRE IN #40mm PNS 14 uPVC CONDUIT PIPE  
 1C - 14mm² THWN GROUNDING WIRE

### MAIN PROTECTION DEVICE:

USE:  
 125AT, 150AF, 2-POLE, 230 VOLTS  
 18 KAIC (MIN.) BOLT-ON TYPE MCCB



PORT MANAGEMENT OFFICE OF BICOL  
 REGIONAL GOVERNMENT CENTER,  
 BAWIS, LEGAZPI CITY 4502

PROJECT TITLE

MAINTENANCE OF POWERHOUSE, GUARDHOUSE, ENTRANCE AND EXIT GATES

PORT OF MATNOC, SORSOGON

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MA. MAGNOLIA SINSON-REQUEJO

PORT MANAGER

SHEET NO.

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OCT. 16, 2023