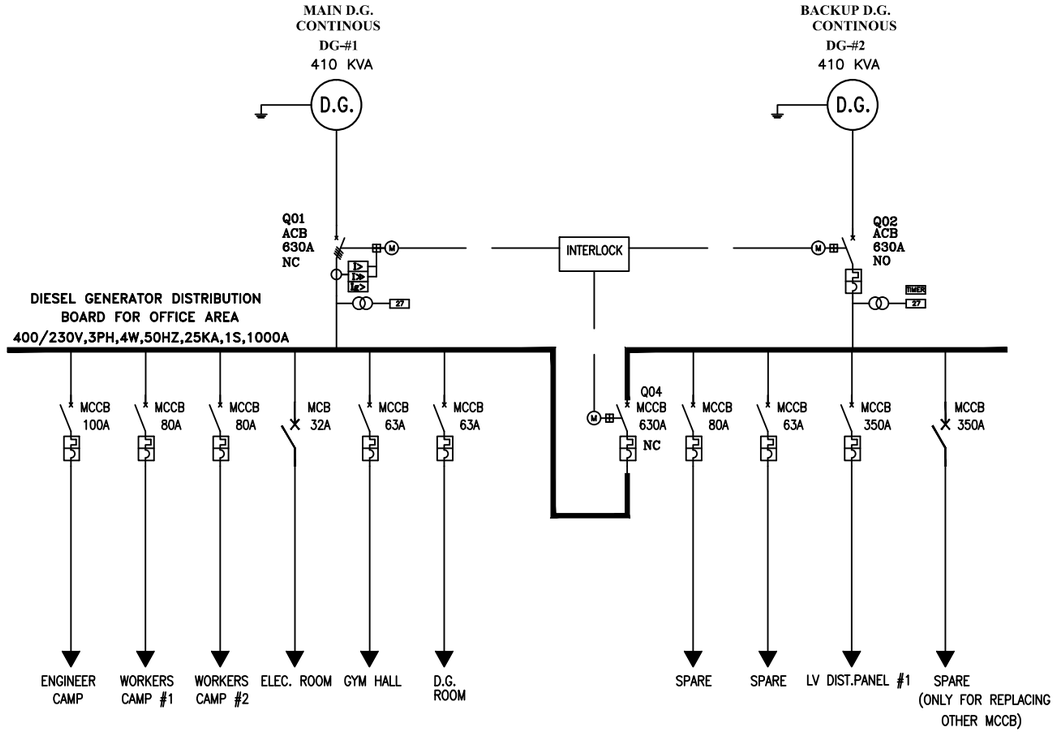

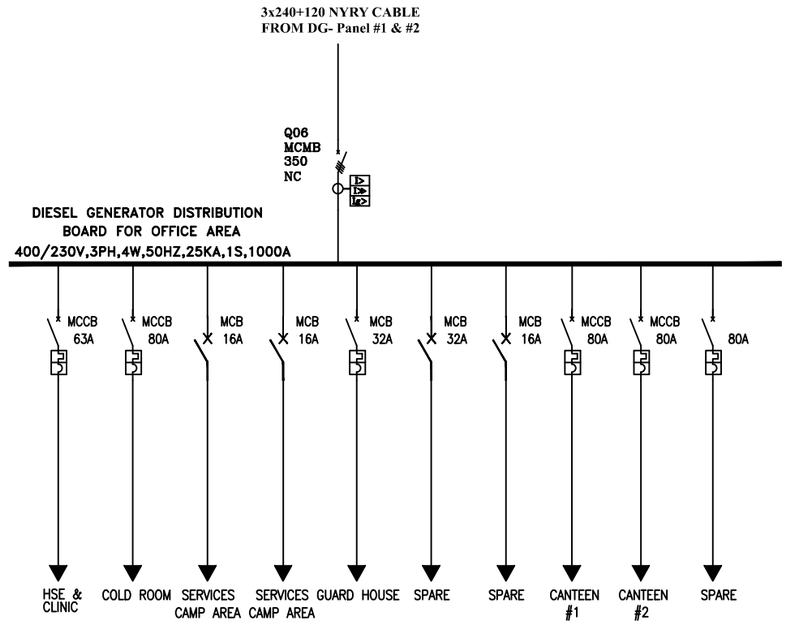

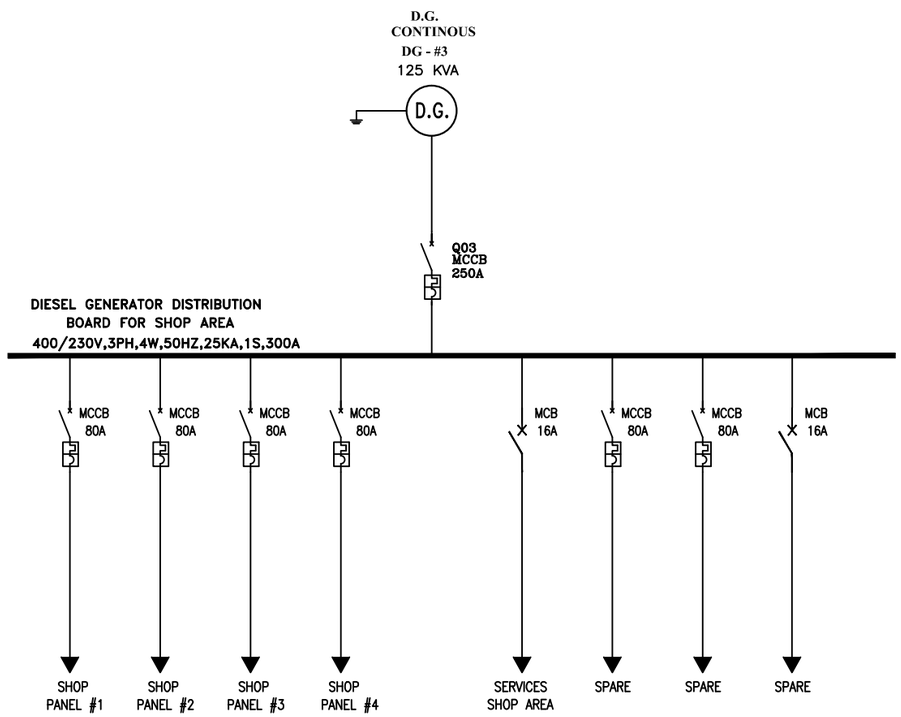

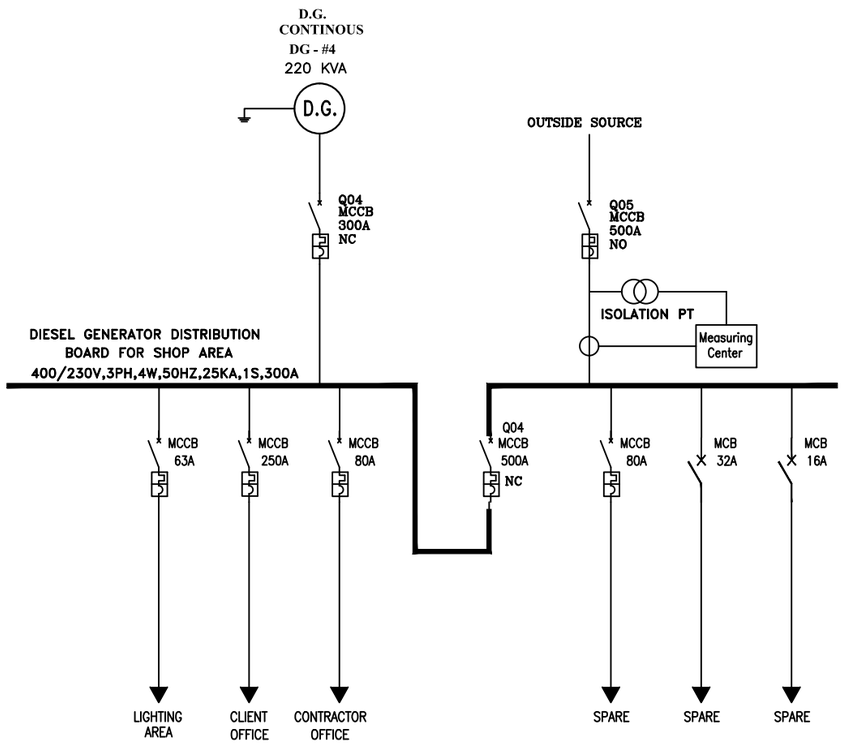

REFERENCE DRAWINGS

TITLE	DWG. No.
LIGHTING SYSTEM FOR CAMP AREA	

NOTES

NO.	SYMBOL	DISCRIPTION
1		4 POLE MOTORIZED LV CIRCUIT BREAKER (ACB) WITH O.L. AND S.C. AND GROUND FAULT PROTECTION ELECTRIC TRIP UNITS
2		AUTOMATIC CIRCUIT BREAKER MCCB / MCB WITH THERMAL OVERLOAD AND MAGNETIC TRIP
3		MINIATURE CIRCUIT BREAKER (MCB)
4	27	UNDER VOLTAGE RELAY
5	D.G	DIESEL GENERATOR
6	M	MOTORIZED MECHANISM
7	TIMER	TIMER (ON DELAY)
8		CURRENT TRANSFORMER
10		VOLTAGE TRANSFORMER
11	Measuring Center	MEASURING CENTER (A,V,W,VAR,KWH)

GENERAL NOTES

1- PANEL IS SELF-STANDING INDOOR TYPE, INCOMING AND OUTGOING FEEDERS FROM BOTTOM WITH PROTECTION CLASS IP42.

2- TYPE OF EARTHING SYSTEM IS TN-S AND THE CROSS SECTION OF EARTHING WIRE IS $185mm^2$ B.C.W .

3- DIESEL GENERATORS SHALL PROVIDE 550 KVA POWER IN CONTINUOUS OPERATION.

4- INTERLOCK WILL BE AS BELOW:

- Q01 AND Q04 ARE NORMALLY CLOSED.
- Q02 AND Q03 ARE NORMALLY OPEN.
- IF Q01 LOOSES VOLTAGE, IT OPENS, THEN Q02 CLOSES. TIME DELAY IS NECESSARY.
- IF BOTH Q01 AND Q02 BOTH LOOSE VOLTAGE, FIRST Q04 OPENS, THEN Q03 CLOSES AUTOMATICALLY AFTER TIME DELAY. IN THIS CASE,FIRST IT MUST BE CHECKED THAT Q03 FEEDER HAS VOLTAGE.

REV.	DATE	DESCRIPTION	PREP.	CHKD.	P.M. APPD.	CONTRACTOR APPD.	COMPANY APPD.
6	23.08.14	ISSUED FOR COMMENT	M.SAMADI	B.MAFI			
5	19.08.14	ISSUED FOR COMMENT	M.SAMADI	B.MAFI			
4	19.08.14	ISSUED FOR COMMENT	M.SAMADI	B.MAFI			
3	17.08.14	ISSUED FOR COMMENT	M.SAMADI	B.MAFI			
2	16.08.14	ISSUED FOR COMMENT	M.SAMADI	B.MAFI			
1	28.07.14	ISSUED FOR COMMENT	M.SAMADI	B.MAFI			

TITLE:

SINGLE LINE DIAGRAM FOR DIESEL GENERATOR DISTRIBUTION PANEL

SCALE	DRAWING No.:	SIZE	CLASS	SHT. No.	REV.
NTSC		A2	2	1/1	5

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