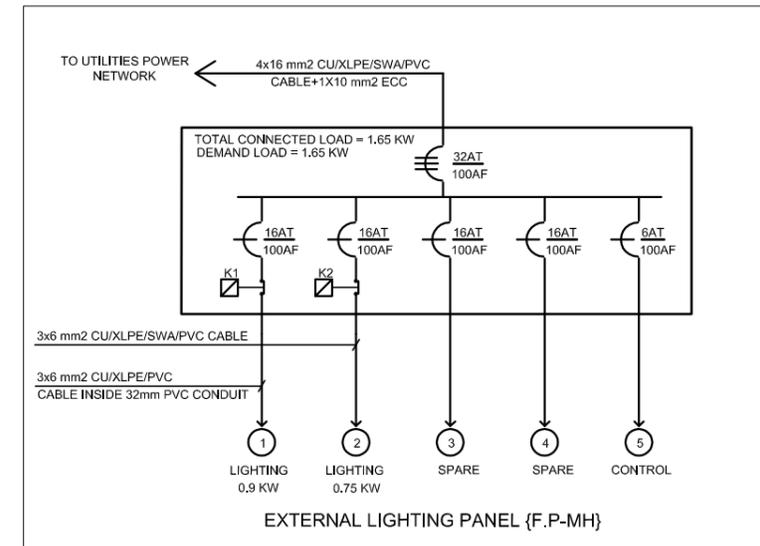
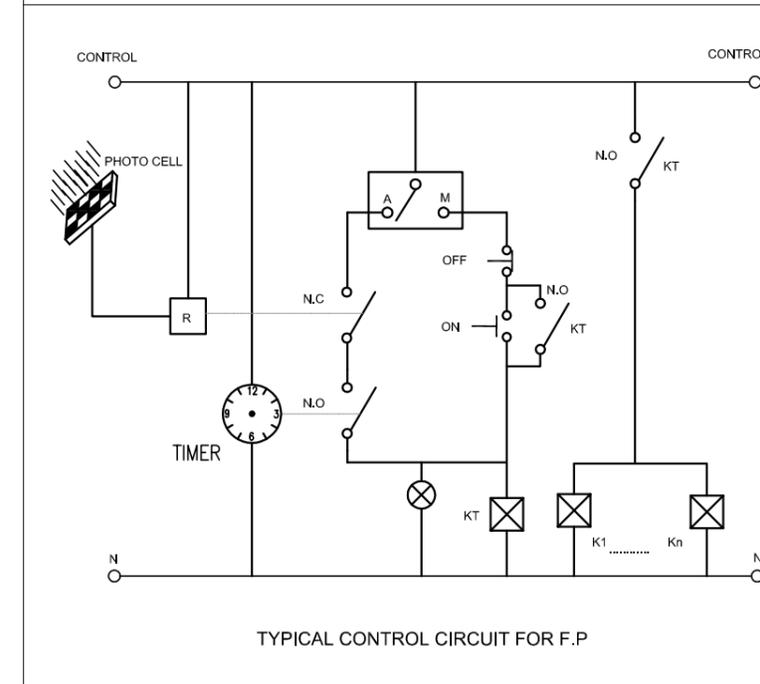


SCALE:1:500



EXTERNAL LIGHTING PANEL (F.P.-MH)



TYPICAL CONTROL CIRCUIT FOR F.P.

SCALE:NTS

**NOTES :**

1. ALL DIMENSIONS ARE IN MILLIMETERS AND STATIONS ARE IN KILOMETERS UNLESS OTHERWISE INDICATED.
2. THE FINAL SIZES FOR CABLES AND BREAKERS TO BE MODIFIED BY CONTRACTOR BASED ON THE FOLLOWING:
  - STREET LIGHTING FINAL SELECTION.
  - COORDINATION WITH JEPCO AND IMPLEMENT ANY REQUIREMENTS INCLUDING THE ACTUAL DISTANCE BETWEEN PANEL BOARDS AND ACTUAL LOCATIONS OF TRANSFORMERS.
  - FINAL LIGHTING, VOLTAGE DROP AND SHORT CIRCUIT CALCULATIONS BASED ON ABOVE MENTIONED ITEMS AND REQUIREMENTS.
3. CABLES TO BE PROTECTED BY UPVC CONDUIT WITH CONCRETE ENCASUREMENT AT EACH ROAD CROSSING.
4. BOLTS AND CONDUITS TO BE FIXED BY MEANS OF A TEMPLATE WHILE CASTING THE BLOCK.
5. THE STEEL WIRE ARMOUR OF THE CABLES TO BE BONDED TO THE POLE BY MEANS OF SUITABLE CLAMPS.
6. EACH PANEL BOARDS SHOULD HAVE ITS EARTHING ROD IN ADDITION TO MAIN EARTHING LEAD.
7. IT IS THE CONTRACTOR RESPONSIBILITY TO PROVIDE FOR THE ENGINEER'S APPROVAL A COMPLETE LIGHTING STUDY WHERE THE FOLLOWING VALUES FOR ROAD PARAMETERS SHALL BE ACHIEVED:

- $L_n \geq 1.5 \text{ cd/m}^2$
- $U_0 \geq 0.4$
- $U_l \geq 0.7$
- $T_l < 10$
- $SR \geq 0.5$

**LEGEND:**

A	10 METER HEIGHT SINGLE ARM STREET LIGHTING POLE WITH 1 NOLED LUMINAIRE WITH WATTAGE $\leq 150$ WATT, AND WITH EFFICACY $\geq 140$ LUMEN/WATT, AND CCT $\geq 4500$ K IP68, HOUSING MADE OF DIE-CAST ALUMINIUM.
F.P.	ROAD LIGHTING FEEDER PILLAR X INDICATES FEEDER PILLAR TAG
---	UPVC CONDUIT WITH CONCRETE ENCASUREMENT

Rev.	Date	Description	Checked

Client  
 Greater Amman Municipality

Project Name  
 BUS RAPID TRANSIT (BRT) SYSTEM IN AMMAN - PACKAGE (16) MAHATTA CONNECTOR

Consultants  
**steer davis gleave**  
**CONSOLIDATED CONSULTANTS GROUP**

Drawing Title  
 ROAD LIGHTING LAYOUT & FEEDER PILLAR DETAILS

Designed By	R.ALAHWAL	Date	MAY, 2018
Drawn By	R.ALAHWAL	Stage	-
Checked By	H.KHALIL	Sheet Size	A1
Approved By	S.AYYASH	Scale	AS SHOWN
Drawing No.:	EL-01	Rev.	00