



**1**  
**E2** **ELECTRICAL LIGHTING LAYOUT**  
SCALE 1/200METS

**SCHEDULE OF LOADS AND COMPUTATIONS :**

DISTRIBUTION PANELBOARD " DP "							
CKT. NO.	LOAD DESCRIPTION	VOLTS	VOLTS AMPERE	CURRENT (I)	CB RATING	SIZE OF WIRE	SIZE OF WIRE CONDUIT
1	CONVENIENCE OUTLETS	220	1440	6.55		2 - 14 AWG THHN/THWN	1 - 15 mm Ø PVC PIPE
2	SP. PURPOSE OUTLETS	220	900	4.10		2 - 14 AWG THHN/THWN	1 - 15 mm Ø PVC PIPE
3	ACU OUTLET	220	1400	6.36		2 - 12 AWG THHN/THWN	1 - 15 mm Ø PVC PIPE
4	SP. PURPOSE OUTLETS	220	3125	14.20		2 - 10 AWG THHN/THWN	1 - 15 mm Ø PVC PIPE
5	SP. PURPOSE OUTLETS	220	1350	6.14		2 - 14 AWG THHN/THWN	1 - 15 mm Ø PVC PIPE
6	LIGHTING OUTLETS	220	800	3.64		2 - 14 AWG THHN/THWN	1 - 15 mm Ø PVC PIPE
7	LIGHTING OUTLETS	220	800	3.64		2 - 14 AWG THHN/THWN	1 - 15 mm Ø PVC PIPE
8	LIGHTING OUTLETS	220	800	3.64		2 - 14 AWG THHN/THWN	1 - 15 mm Ø PVC PIPE
9	SPARE						
10	SPARE						
<b>T O T A L</b>			<b>10615</b>	<b>48.27</b>			

$I_{WIRE} = (I_{WIRE} \times DF) + 25\% \text{ LARGEST MOTOR}$   
 $= (48.27 \times 0.80) + (0.25 \times 14.20)$   
 $= 42.17 \text{ A}$

$I_{BREAKER} = (I_{WIRE} \times DF) + 250\% \text{ LARGEST MOTOR}$   
 $= 42.17 + (2.50 \times 14.20)$   
 $= 77.67 \text{ A}$

USE : 2 - 8 AWG THHN/THWN WIRE  
 USE : 100 AT MAIN, 220 V, 2P, 60Hz  
 10 BRANCHES W/ CENTER MAIN PANEL BOARD

**ELECTRICAL SYMBOLS :**

- 28 WATTS, 230 VOLTS, 60Hz, FLUORESCENT LIGHTING FIXTURE, BOX TYPE
- 18 WATTS LED LAMP
- 18 WATTS COMPACT FLUORESCENT LAMP WITH MEDIUM BASE, KEYLESS TYPE PORCELAIN RECEPTACLE OUTLET
- SINGLE POLE WALL SWITCH
- 2 SINGLE POLE WALL SWITCHES IN ONE SWITCH PLATE
- DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, 20A, 250VOLTS "WP" DENOTES WEATHERPROOF OUTLET
- DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, 20A, 250VOLTS
- SPECIAL PURPOSE OUTLET, GROUNDING TYPE, 20A, 250VOLTS
- CONCEALED OR EMBEDDED CONDUIT RUN
- UNDERGROUND OR UNDERFLOOR CONDUIT RUN
- UNDERGROUND OR UNDERFLOOR CONDUIT RUN
- CIRCUIT HOMERUN
- DISTRIBUTION PANELBOARD
- ELECTRIC SERVICE METER
- ELECTRIC SERVICE ENTRANCE
- PULL BOX / JUNCTION BOX WITH COVER PLATE
- GROUNDING SYSTEM