ELECTRICAL

...ODE WITH THE RULES AND REGULATION OF THE NATIONAL AND LOCAL AUTHORITIES CONCERNED.

...PONED IN THE ENFORCEMENT OF THE ELECTRICAL LAWS AND ORDINANCES ... WITH THE RULES AND REGULATION OF THE UTILITY COMPANY CONCERNED.

1. SERVICE TO THE BUILDING AND DISTRIBUTION SHALL BE 230 V SINGLE PHASE, 2W+E, 60HZ.
2. SERVICE ENTRANCE CONDUCTOR SHALL BE IN RIGID STEEL CONDUIT
3. BRANCH CONDUIT WIRING SHALL BE IN PVC (POLYVINYL CHLORIDE), AND SMALLEST SIZE SHALL BE $\frac{3}{4}$" TRADE SIZE.
4. SMALLEST SIZE OF WIRE SHALL BE 3.5mm² FOR LIGHTING AND FOR CONVENIENCE OUTLET, AND SHALL BE INSTALLED AT 600V.
5. LIGHT SWITCHES SHALL BE RATED AT 15A, 240V
6. OUTLET BOXES SHALL BE GALVANIZING STEEL PRESSED:
   - A. CEILING LIGHTING: 2" DEEP JUNCTION BOX O.K. FOR 1 TO 4 CONDUIT ENTRIES
   - B. WALL SWITCHES: 2" DEEP UTILITY BOX O.K. FOR 4-GANG TO 3-GANG SWITCH ON ONE STRAP
   - C. CONVENIENCE OUTLET: 2" DEEP UTILITY BOX FOR 1 OR 2 CONDUIT ENTRIES
7. MOUNTING HEIGHT SHALL BE AS FOLLOWS
   - A. SWITCHES: 1.4 METERS ABOVE FLOOR
   - B. CONVENIENCE OUTLET: 0.30 METERS ABOVE FLOOR OR AS INDICATED
   - C. PANELBOARDS: 1.60 METERS ABOVE FLOOR
8. ALL ELECTRICAL MATERIALS, DEVICES, EQUIPMENT AND ACCESSORIES TO BE INSTALLED SHALL BE NEW AND APPROVED TYPE FOR THE LOCATION AND PURPOSES.
9. DATA PRESENTED ON THE PLAN ARE ACCURATE AS PRELIMINARY SURVEY THAT PLANNING CAN BE DETERMINED BUT ALL DIMENSION IS DIRECTED ON ACCURACY AND CANNOT BE GUARANTEED. FIELD VERIFICATION OF ALL DIMENSION IS DIRECTED ON ACTUAL EXECUTION OF WORK. THIS IS FOR GUIDANCE, BUT LEVELS SHALL BE GOVERNED BY FIELD CONDITIONS.

LEGEND

$\bullet S_{3pc}$	THREE POLE, SINGLE THROW SWITCH IN THREE GANG-PLATE COVER, 15AMPS, 220 V
$\bullet S_{2w}$	TWO-WAY SWITCH 15AMPS, 220V IN ONE GANG PLATE COVER
$\bullet S_{3w}$	THREE-WAY SWITCH 15AMPS, 220V IN ONE GANG-PLATE COVER
(1)	CIRCUIT HOMERUN NO. INDICATE CIRCUIT NUMBER
	SERVICE ENTRANCE
	LIGHTING PANEL
	DUPLEX CONVENIENCE OUTLET 250V, 15AMPS, GROUNDING TYPE
	2 x 40 / 12" x 48 RECESSED DIFFUSER LUMINAIRE

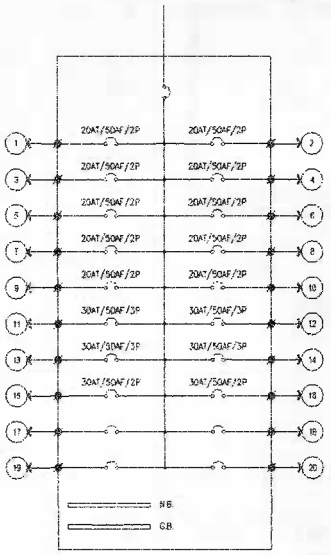
DESCRIPTION: ME (MAIN EXTENTION)

PROTECTION 100AT / 100AF I 3P VOLTAGE 400AV / 60 BOLT ON

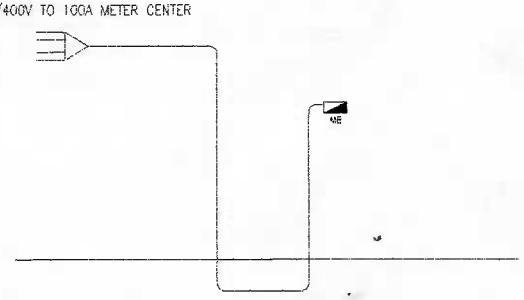
CKT. NO	CIRCUIT BREAKER RATING POLE	TRIP	FRAME	WIRE / CABLE SIZE	GROUND WIRE	CONDUIT	LOAD DESCRIPTION	VA LOAD	AMPERE LOAD AB	BC	CA	3 Ø
1	1	20	50	2-3.5mm²	1-3.5mm²	20mmØ PVC	L.O. (15)	1000	6.5			
2	1	20	50	2-3.5mm²	1-3.5mm²	20mmØ PVC	L.O. (15)	1000	6.5			
3	1	20	50	2-3.5mm²	1-3.5mm²	20mmØ PVC	L.O. (18)	1800			7.8	
4	1	20	50	2-3.5mm²	1-3.5mm²	20mmØ PVC	L.O. (23)	2300			10	
5	1	20	50	2-3.5mm²	1-3.5mm²	20mmØ PVC	C.O. (9)	1800		7.8		
6	1	20	50	2-3.5mm²	1-3.5mm²	20mmØ PVC	C.O. (9)	1800		7.8		
7	1	20	50	2-3.5mm²	1-3.5mm²	20mmØ PVC	A/C 1HP		8			
8	1	20	50	2-3.5mm²	1-3.5mm²	20mmØ PVC	A/C 2HP		12			
9	1	20	50				SPARE					
10	1	20	50				SPARE					
11	3	30	50	3-5.5mm²	1-5.5mm²	20mmØ PVC	3 TONNER					6.1
12	3	30	50	3-5.5mm²	1-5.5mm²	20mmØ PVC	3 TONNER					6.1
13	3	30	50	3-5.5mm²	1-5.5mm²	20mmØ PVC	5 TONNER					9.7
14	3	30	50	3-5.5mm²	1-5.5mm²	20mmØ PVC	5 TONNER					9.7

LOAD COMPUTATION:

I = (32 + 31.6) + 25% (9.7)
= 64.6 + 2.425 = 67 AMP
= 67 (1.2) = 83.78
USE: 100AT / 100AF / 3P
4-30mm2 THHN
1 - 8 mm2 THW
Ø 40mmØPVC



2 E 03 PANEL BOARD DIAGRAM
SCALE NTS



POWER RISER DIAGRAM
NTS SCALE

PROPOSED REPAIR OF GSS AND DAO OFFICE

PHILIPPINE PUBLIC SAFETY COLLEGE