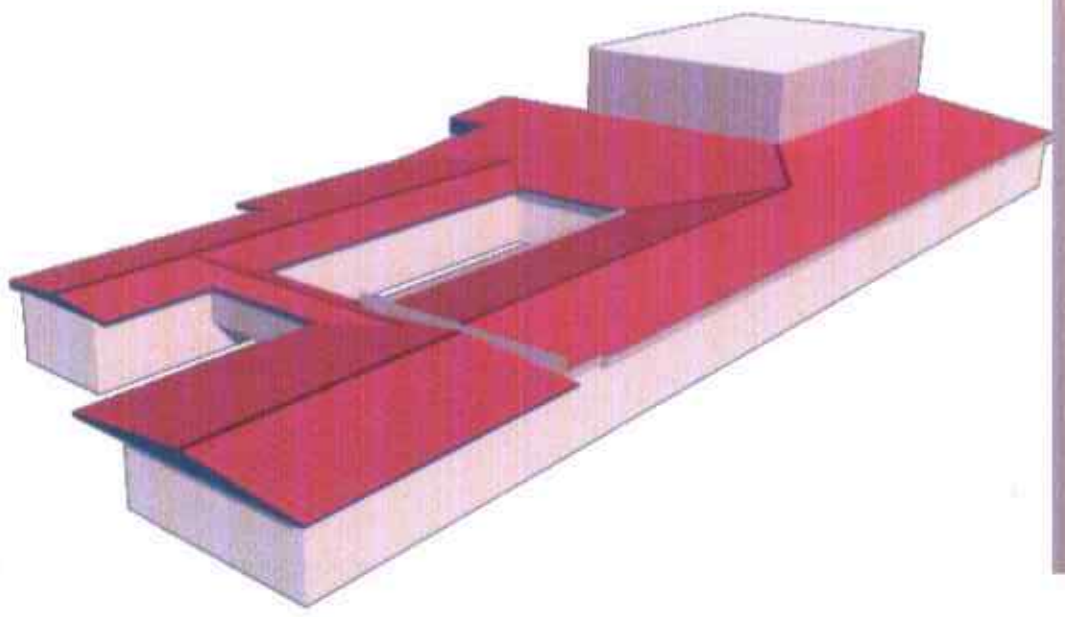

(ROOF)
PERSPECTIVE VIEW

(INTERIOR PERSPECTIVE)
PERSPECTIVE VIEW

THIS SITE

VICINITY MAP

THIS SITE

SITE DEVELOPMENT PLAN

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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS & HIGHWAYS
OFFICE OF THE BUILDING
O F F I C I A L

LINE AND GRADE

LAND USE AND ZONING

STRUCTURAL

ARCHITECTURAL

SANITARY

ELECTRICAL

MECHANICAL

ROOF EAVES
ROOF EAVES
ROOF EAVES
ROOF EAVES
OB SURGERY WARD
NURSE'S STATION
OB NORMAL WARD
BREASTFEEDING ROOM
PATHOLOGIC ROOM
PREMATURE
NURSE'S STATION
INST. SUPPLY
CLEAN UP ROOM
MALE LOUNGE
AFFILIATE ROOM
FEMALE LOUNGE
STAFF CORRIDOR
STERILE AREA
OB OPERATING ROOM
DELIVERY ROOM
OPTHA OPERATING ROOM
SURGERY OPERATING ROOM
RECOVERY ROOM
CSR
CSR
CSR
CSR
FEMALE SURGERY WARD
OPTHA ROOM
NURSE'S STATION
O.B PHILHEALTH ROOM
BURN ROOM
NEONATAL ROOM
PULMO-RESPIRATORY ROOM
PROPOSED NEONATAL ROOM
NURSE'S QUARTERS
CSR
DCILE WARD
L. MAMPES WARD
MALE SURGERY WARD
PHILHEALTH SURGERY WARD
STAIR DOWN
NURSE'S QUARTER'S
PEDIA GENERAL WARD
CARDIO /NEPHRO ROOM
PEDIA NURSE STATION
PUBLIC CR
NURSE STATION
I C U WATCHER'S ROOM
ROTARY WARD
D:\jcor\BUILDING LOGO\NEW LOGO5.png

SECOND FLOOR PLAN

A-2 | 1 | 1

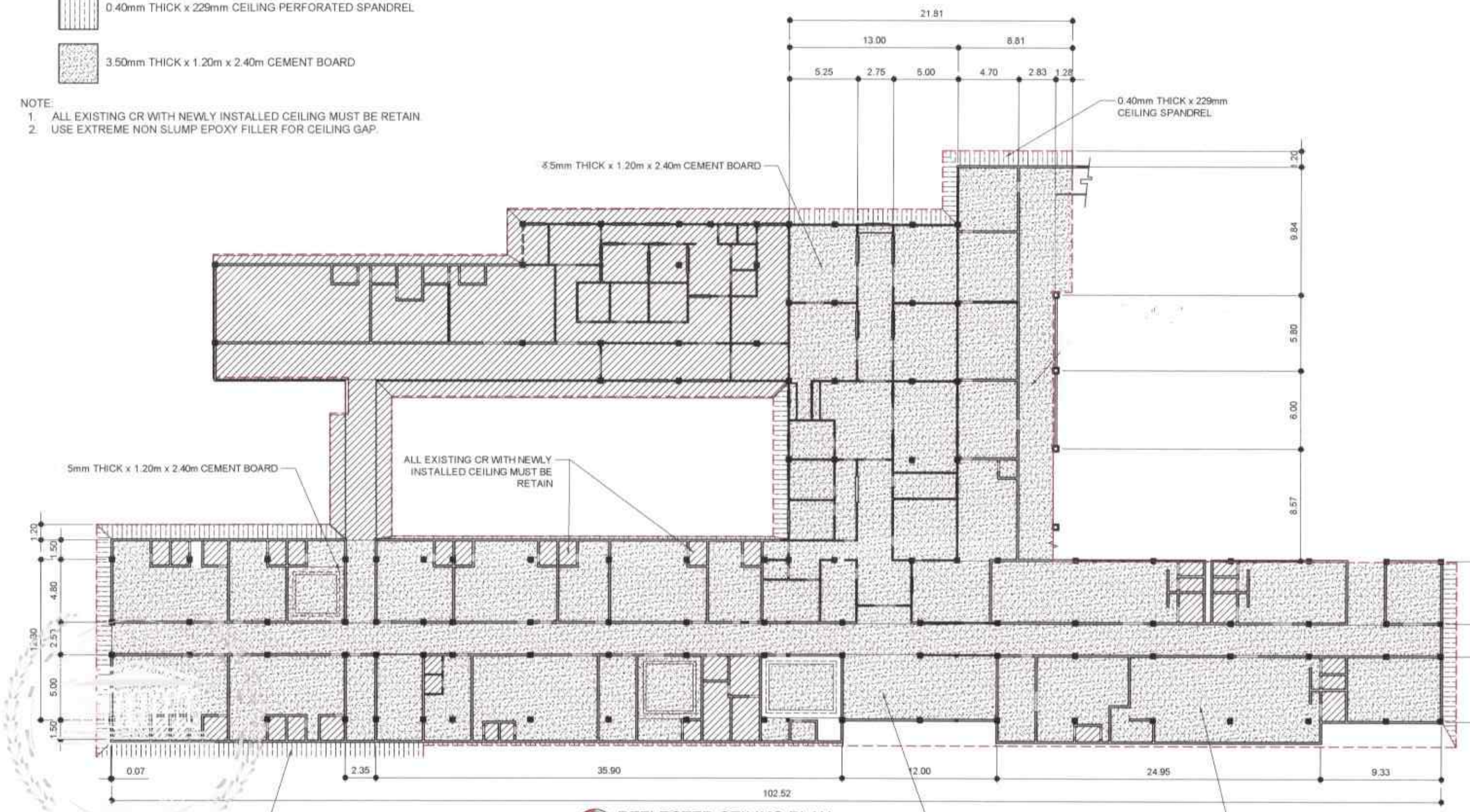
SCALE: 1:300 MTS

LEGEND

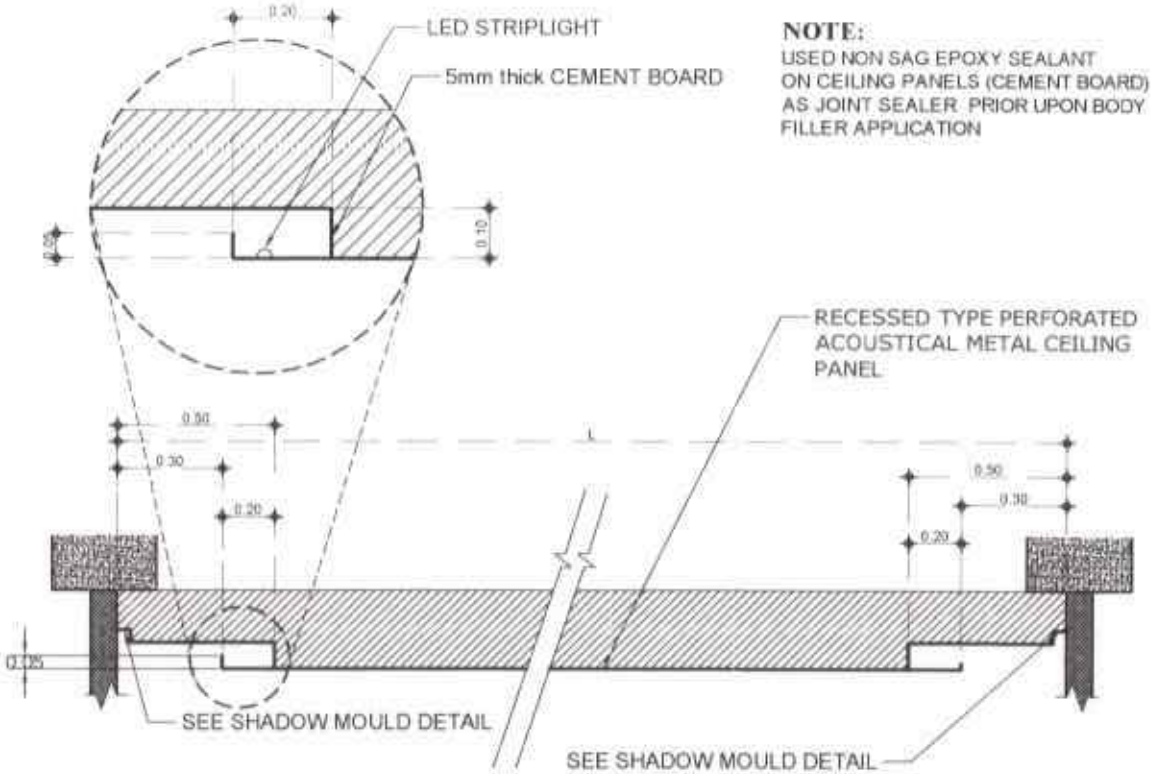
0.40mm THICK x 229mm CEILING PERFORATED SPANDREL

3.50mm THICK x 1.20m x 2.40m CEMENT BOARD

NOTE:
1. ALL EXISTING CR WITH NEWLY INSTALLED CEILING MUST BE RETAIN
2. USE EXTREME NON SLUMP EPOXY FILLER FOR CEILING GAP.

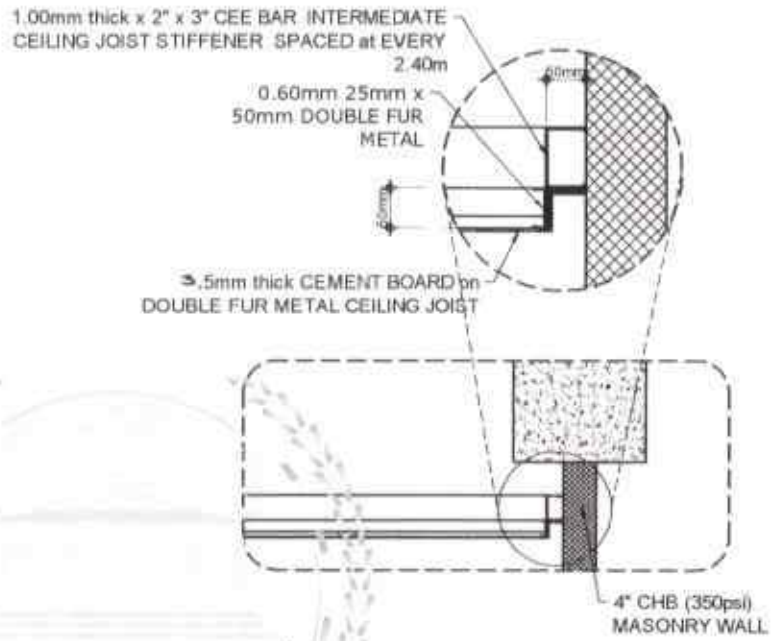


A-3 REFLECTED CEILING PLAN

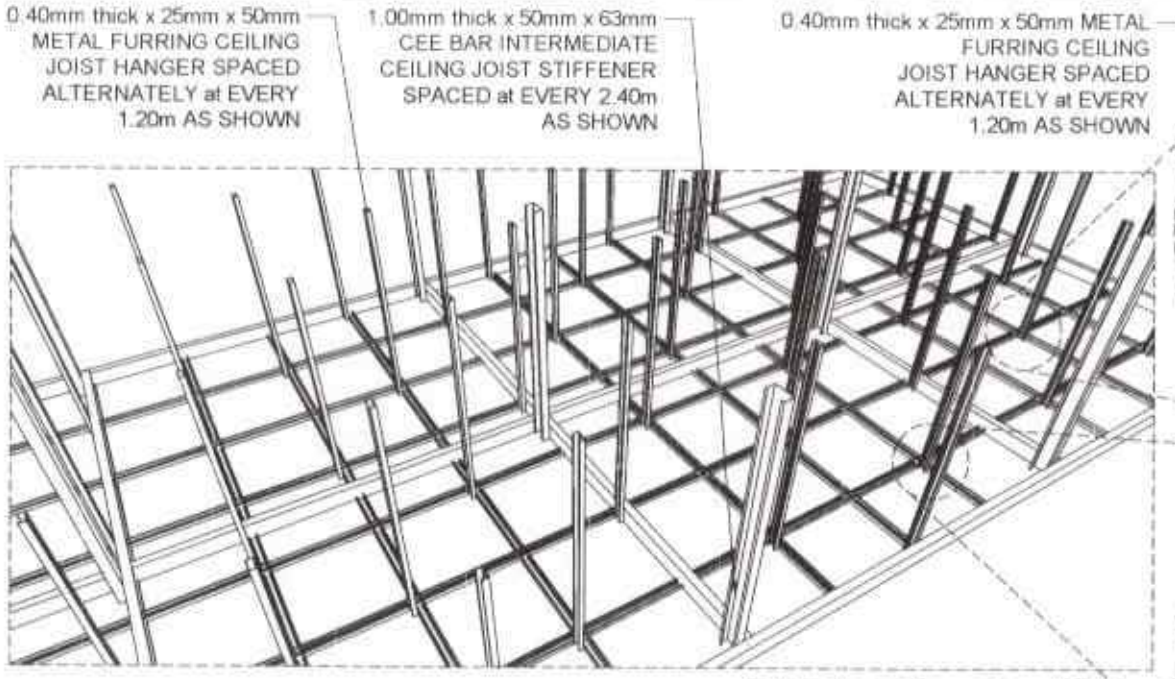


NOTE:
USED NON SAG EPOXY SEALANT ON CEILING PANELS (CEMENT BOARD) AS JOINT SEALER PRIOR UPON BODY FILLER APPLICATION

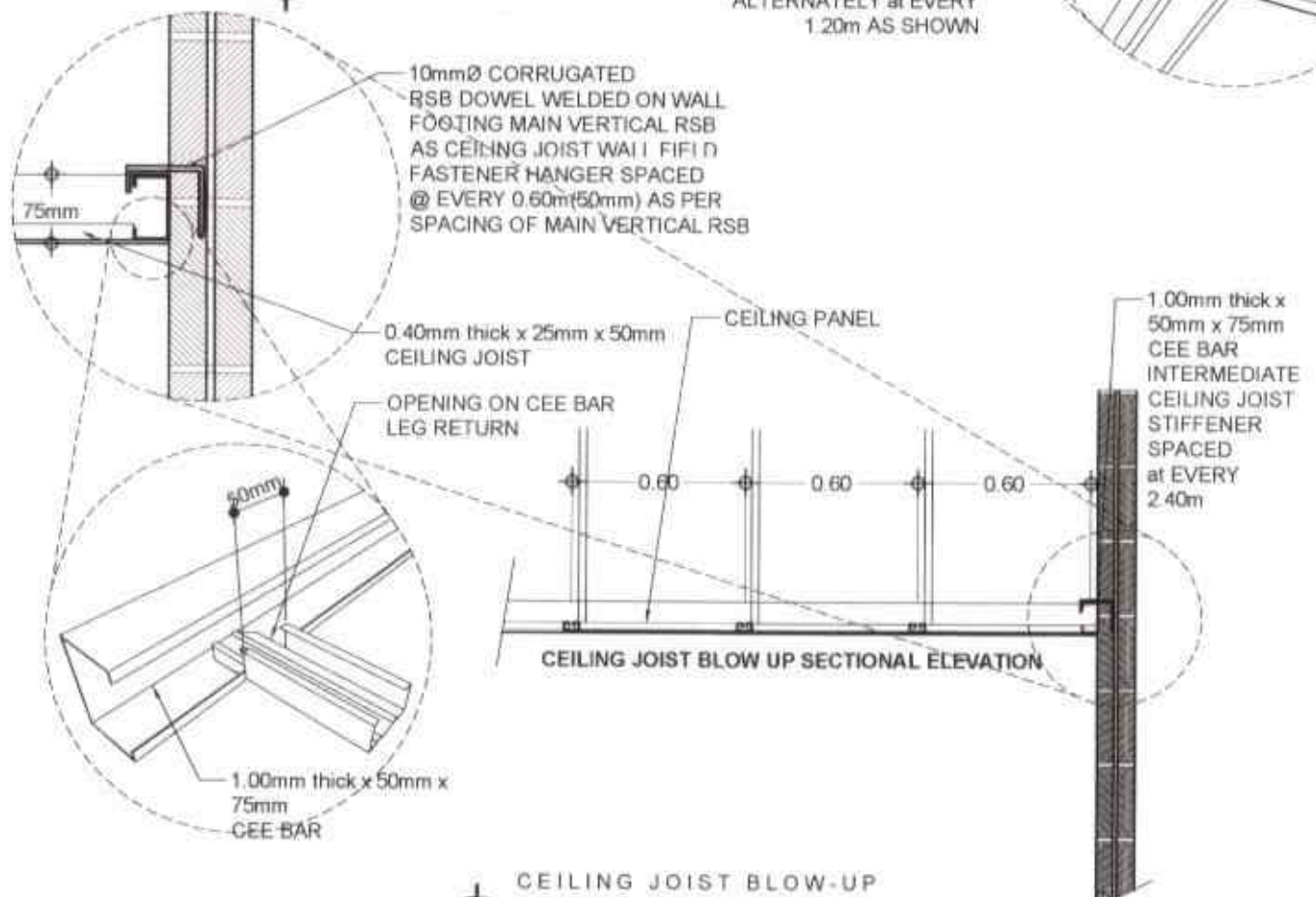
NURSE STATION
COVE LIGHT DETAIL
SCALE: NTS



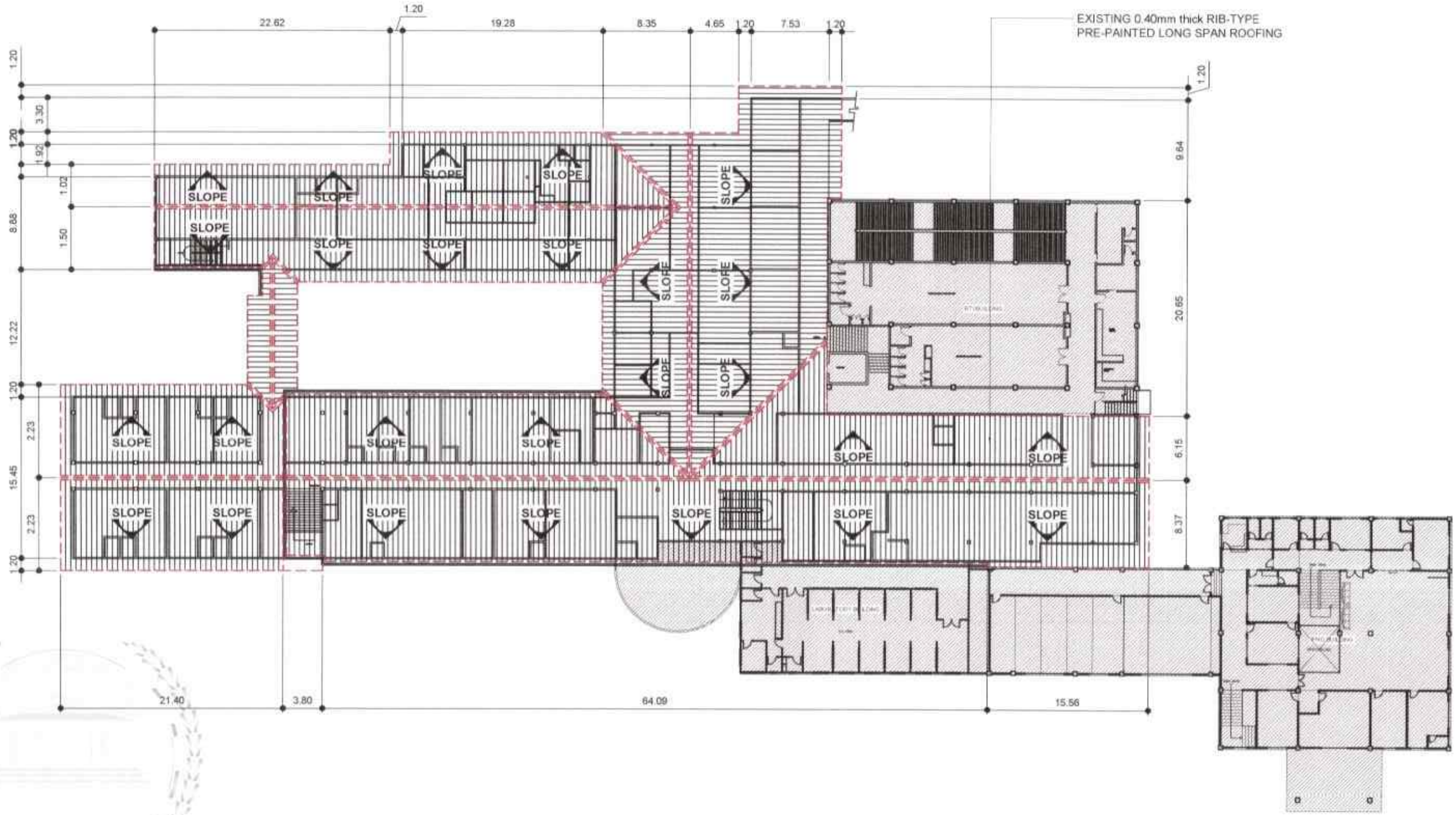
SHADOW MOULD DETAIL
SCALE: NTS



CEILING SHOP DRAWING
SCALE: NTS



CEILING JOIST BLOW-UP SECTIONAL ELEVATION



EXISTING ROOF PLAN

SCALE: 1:400 MTS

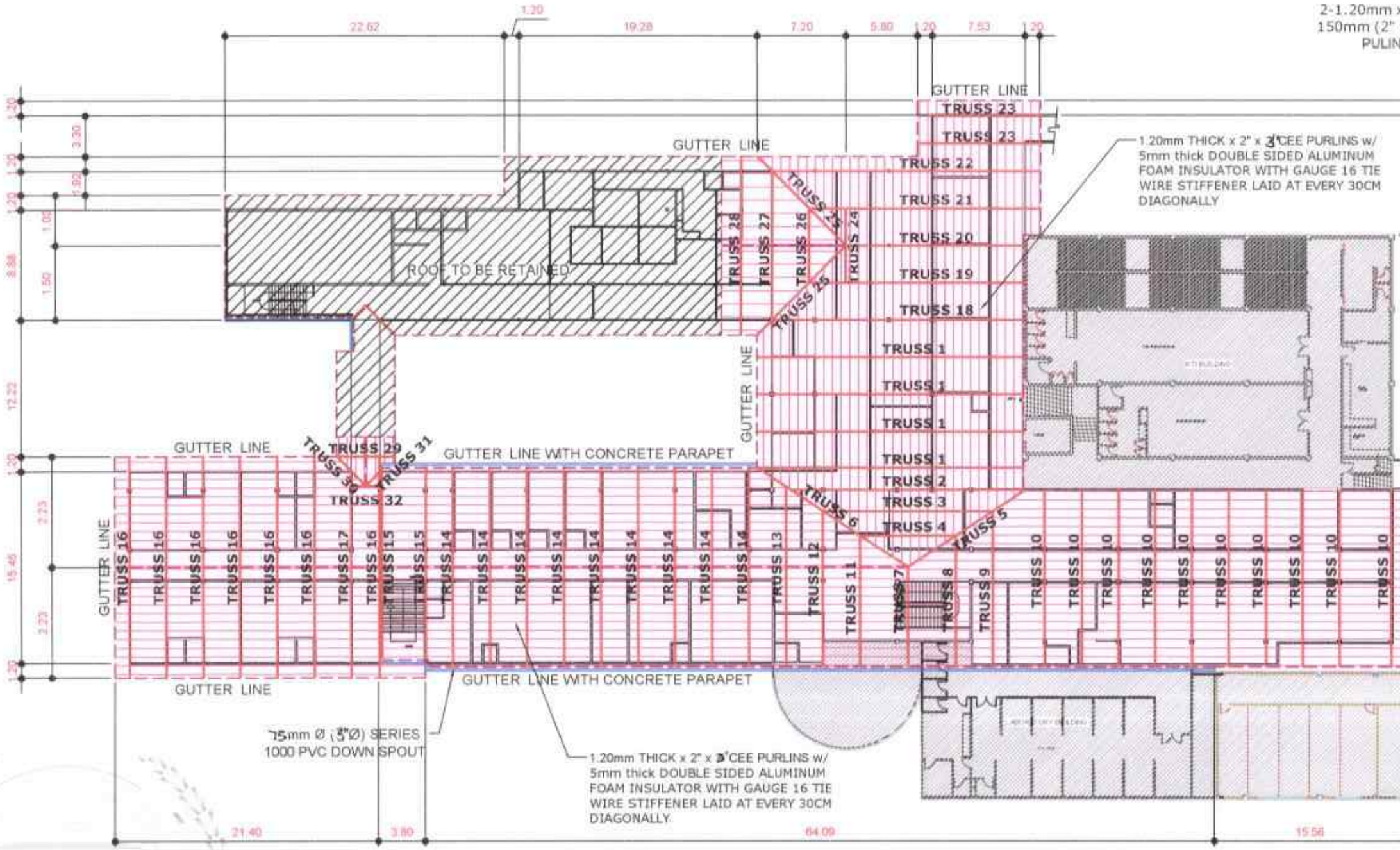
0.40mm thick RIB-TYPE PRE-PAINTED
LONG SPAN ROOFING (ROYAL BLUE)
w/ 5mm thick DOUBLE SIDED
ALUMINUM FOAM INSULATOR WITH
GAUGE 16 TIE WIRE STIFFENER
LAID AT EVERY 30CM DIAGONALLY

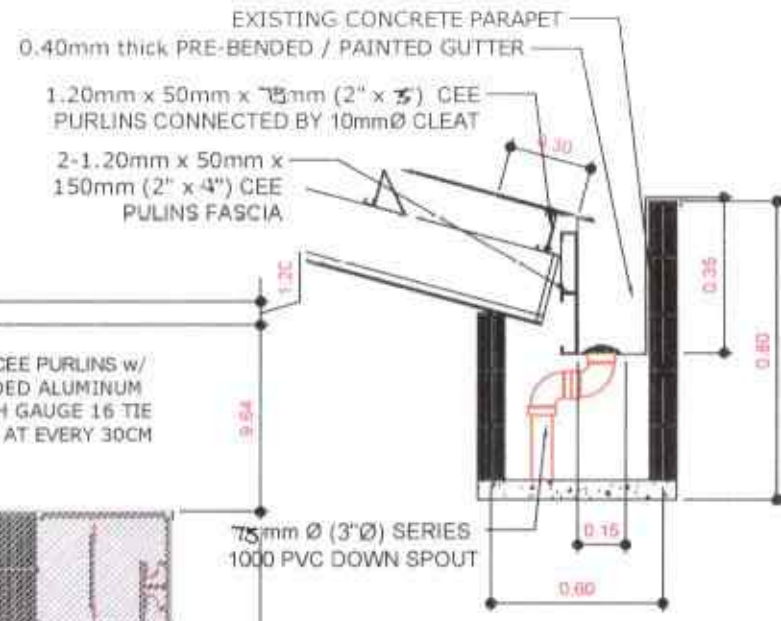
ROOF TO BE RETAINED

SLOPE

PROPOSED ROOF PLAN

S-2 / 1 SCALE: 1:400 MTS





NOTE:

1. APPLY CEMENTITOUS WATERPROOFING ON EXISTING INSIDE GUTTER PRIOR UPON INSTALLING THE INSIDE GUTTER

GUTTER DETAIL ON EXISTING CONCRETE PARAPET

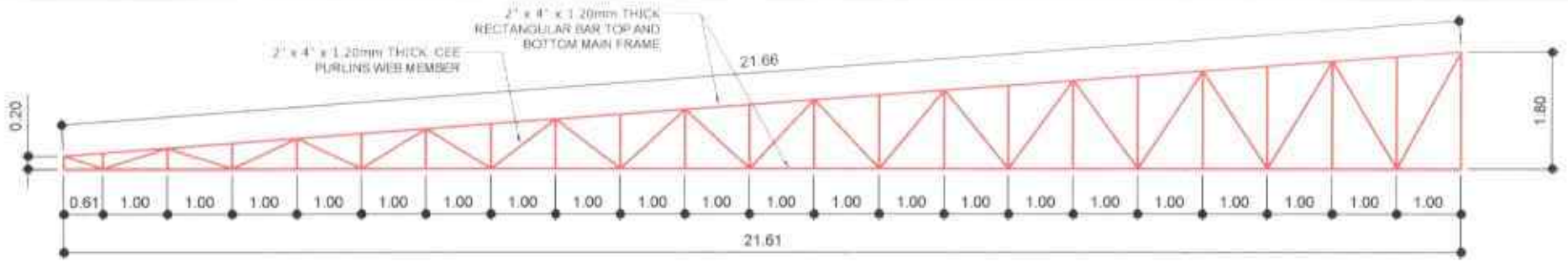
S-7

ROOF FRAMING PLAN

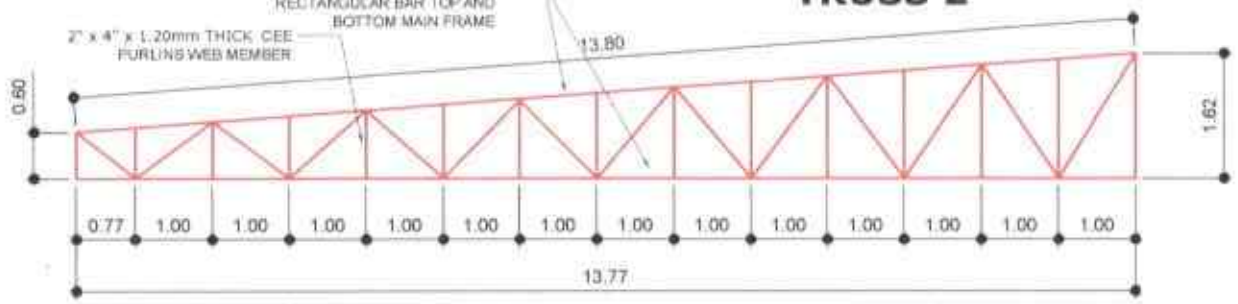
S-3

SCALE: 1:400 MTS

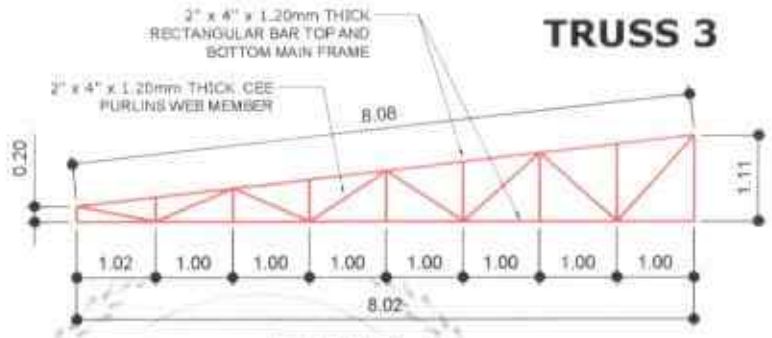
TRUSS 1



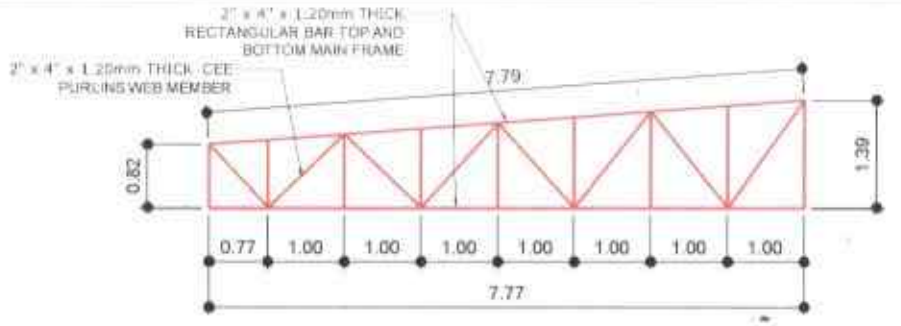
TRUSS 2



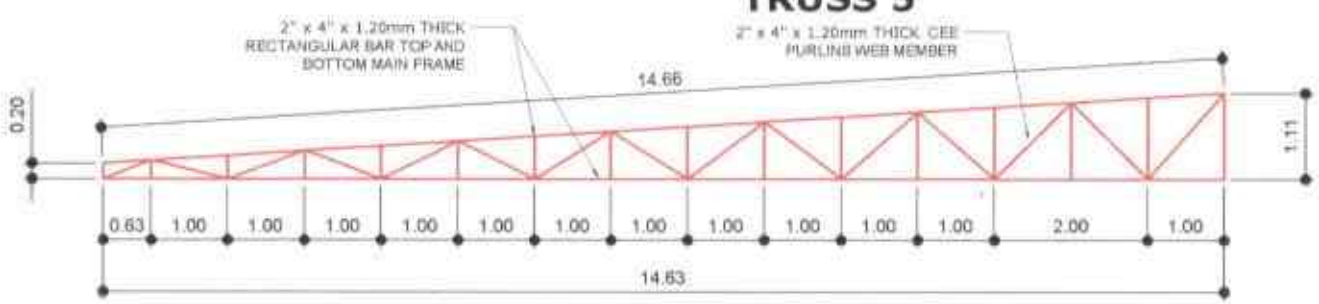
TRUSS 3



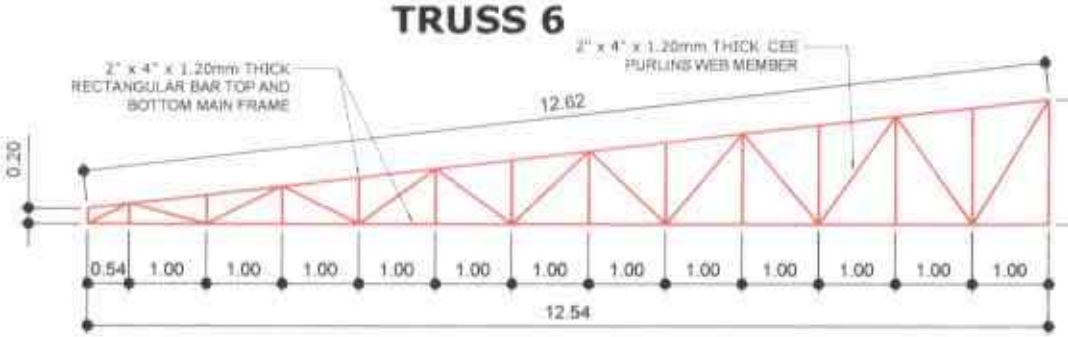
TRUSS 4



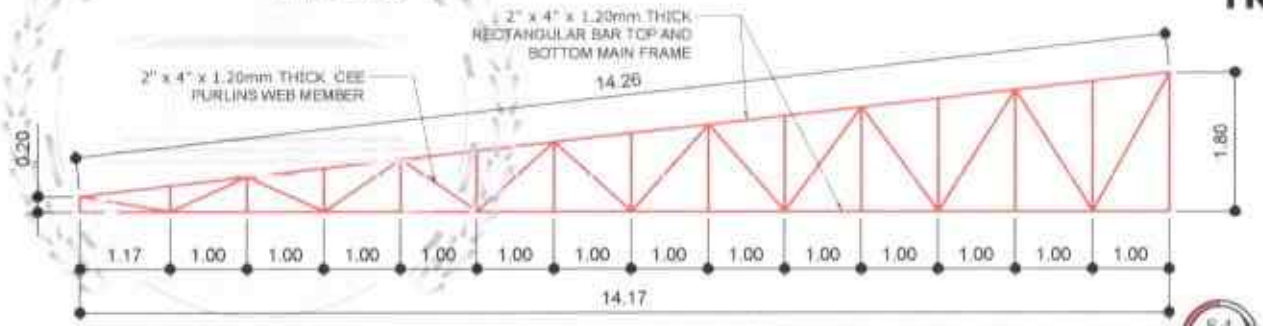
TRUSS 5



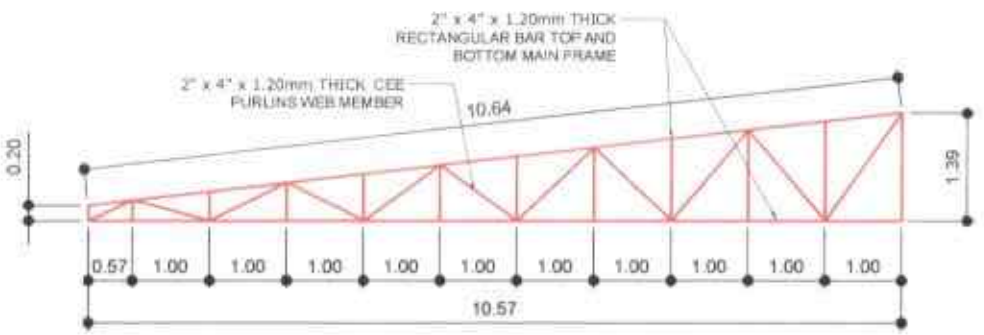
TRUSS 6



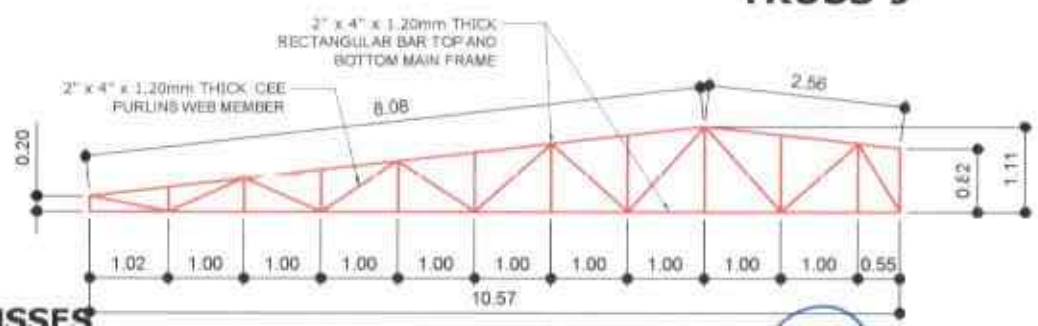
TRUSS 7



TRUSS 8

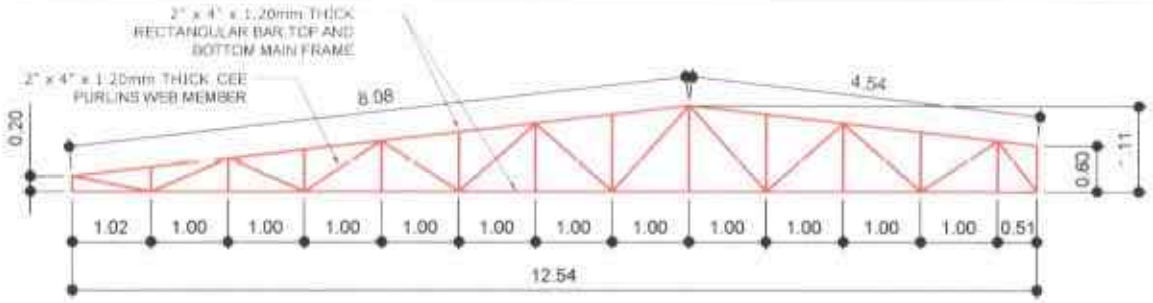


TRUSS 9

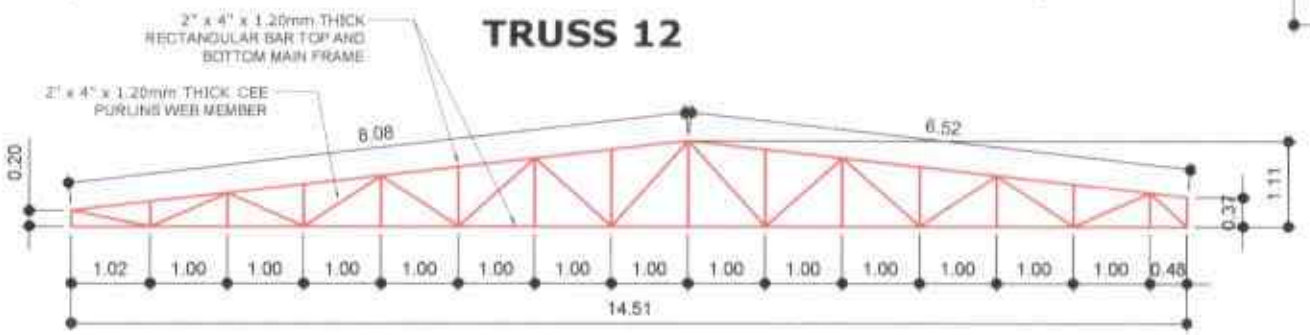


SCHEDULE OF TRUSSES

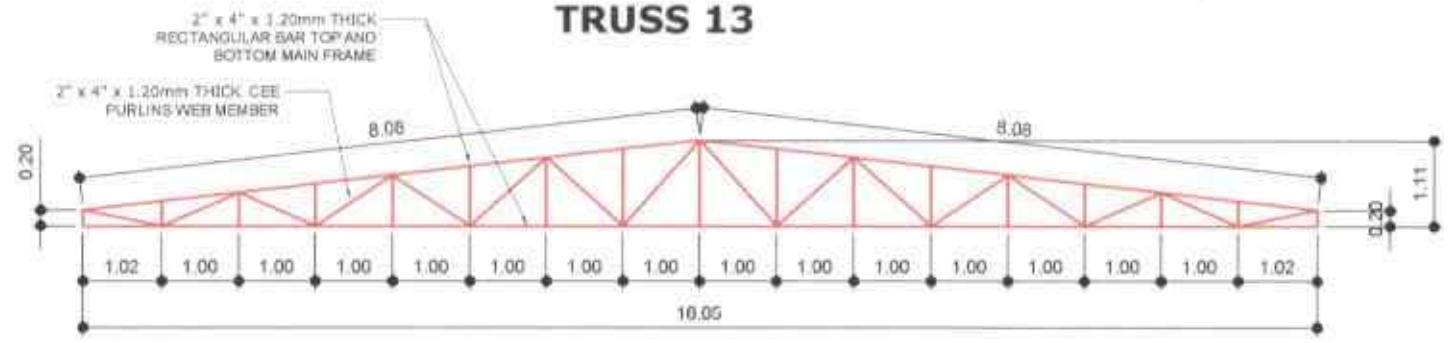
NOTE:
1. TRUSS DIMENSION M



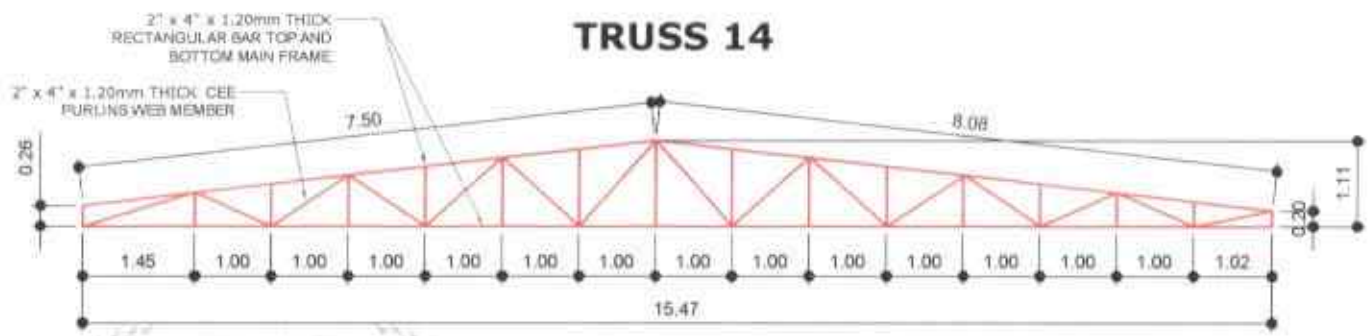
TRUSS 12



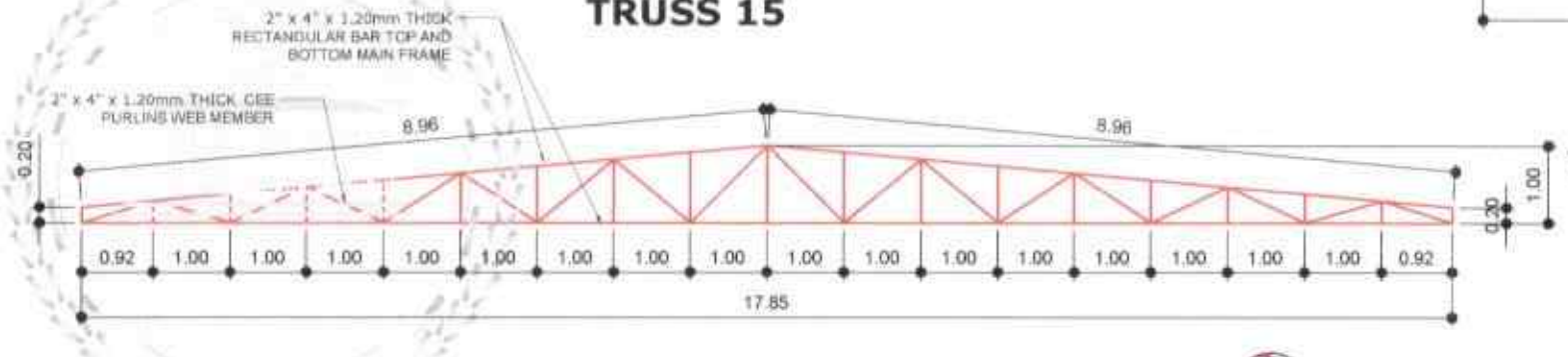
TRUSS 13



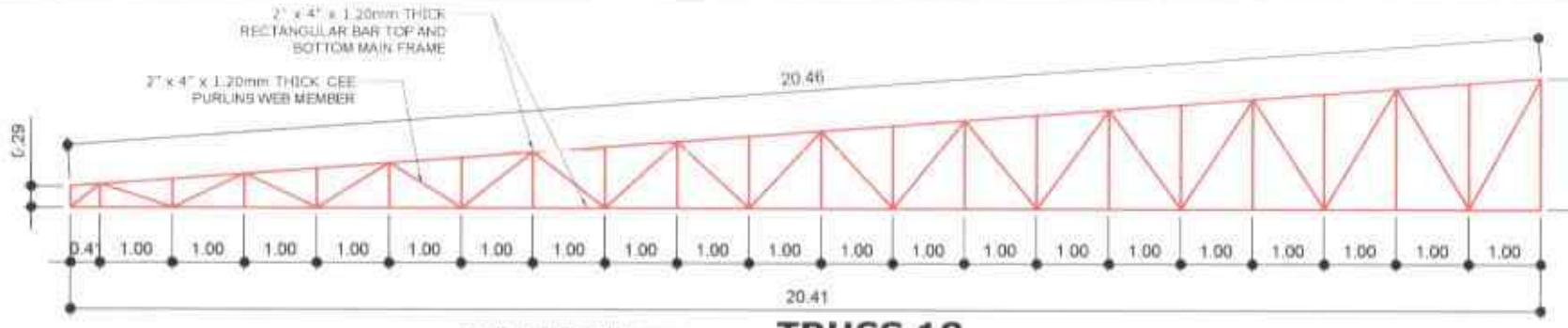
TRUSS 14



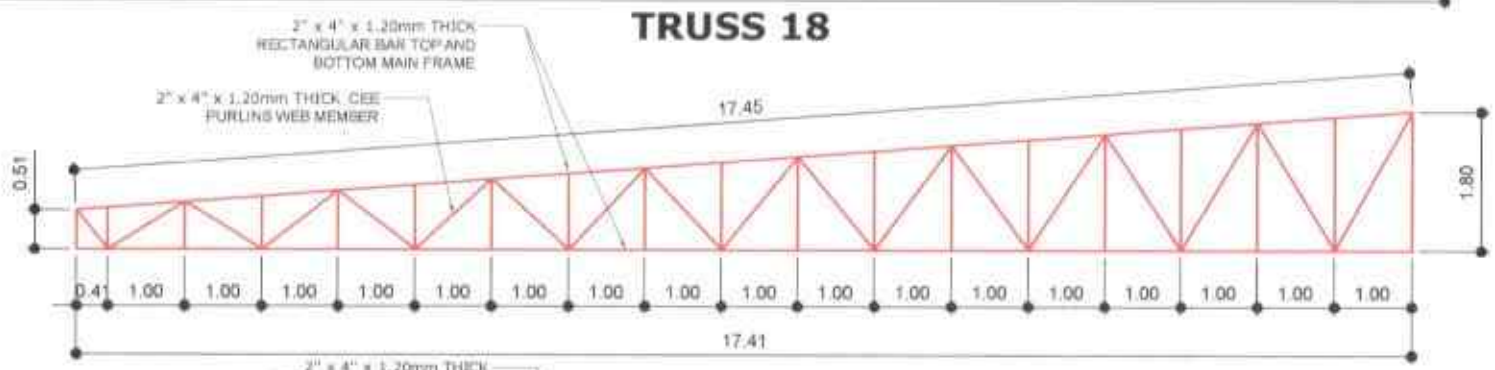
TRUSS 15



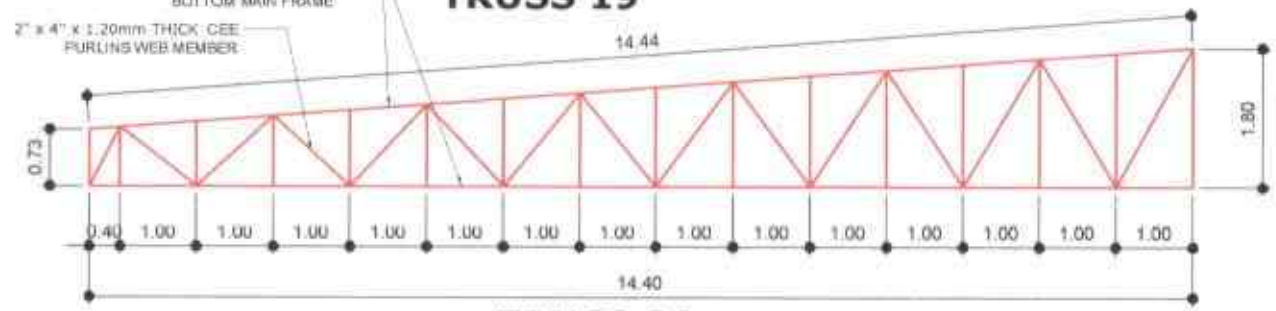
TRUSS 16



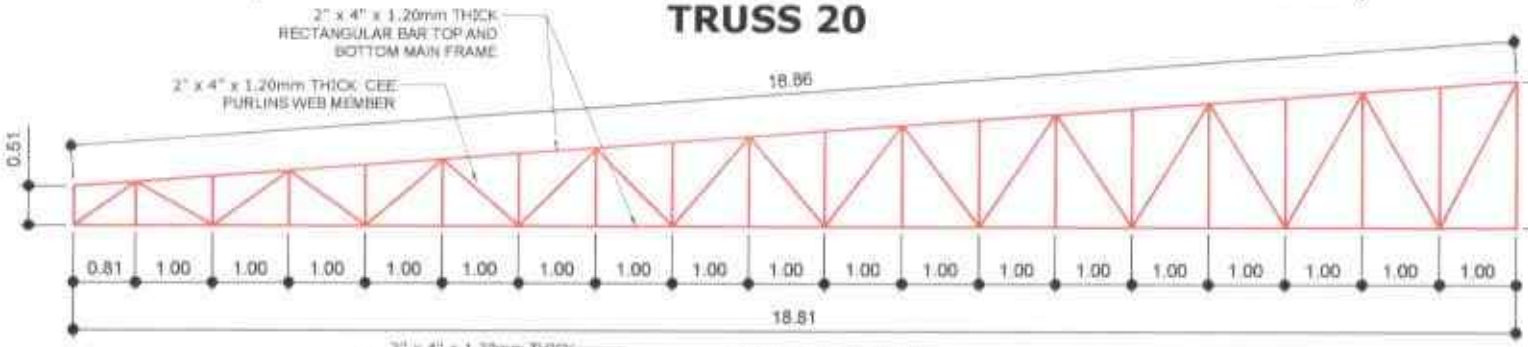
TRUSS 18



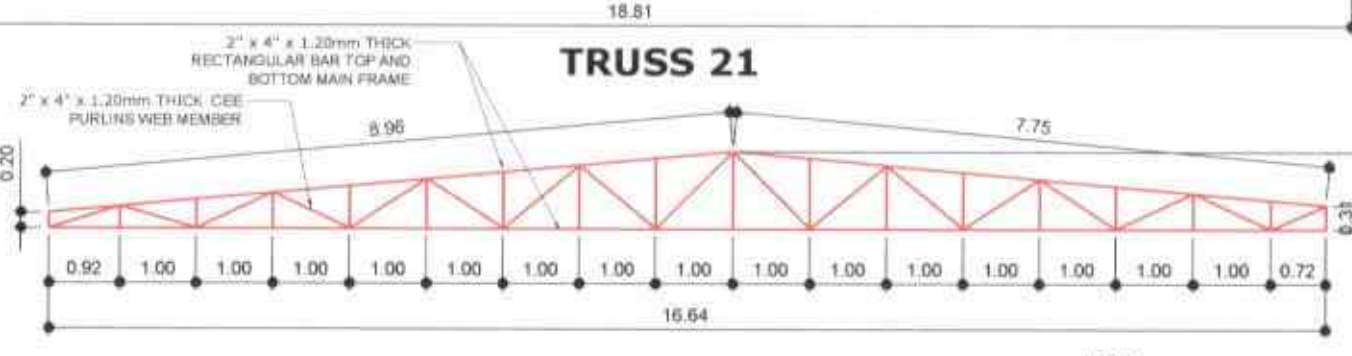
TRUSS 19



TRUSS 20



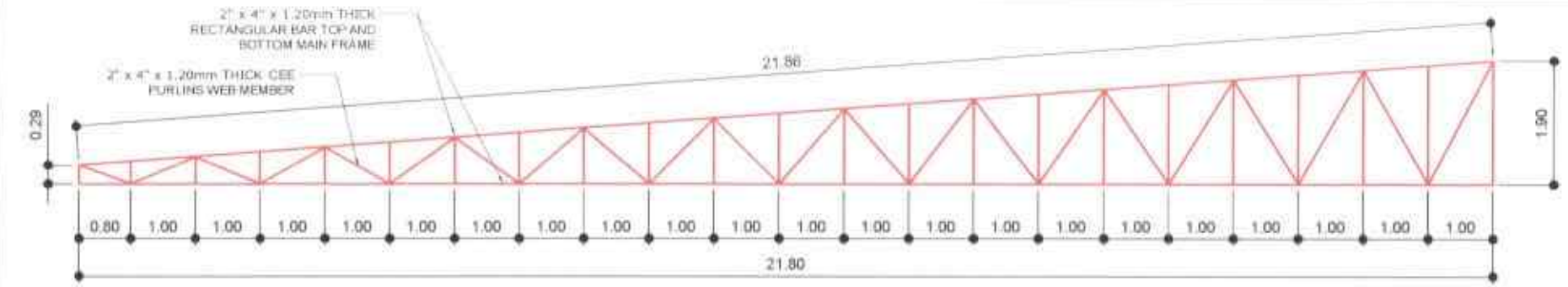
TRUSS 21



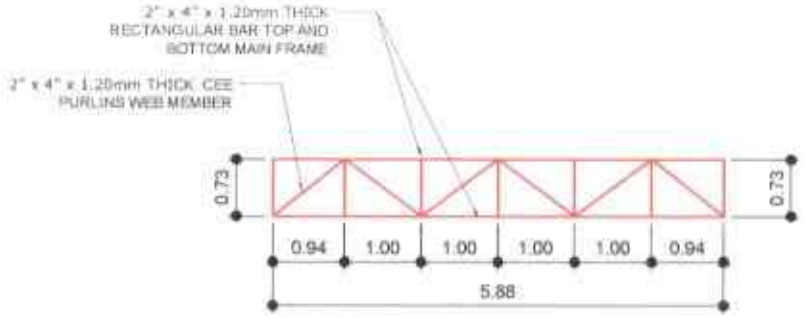
TRUSS 17

SCHEDULE OF TRUSSES

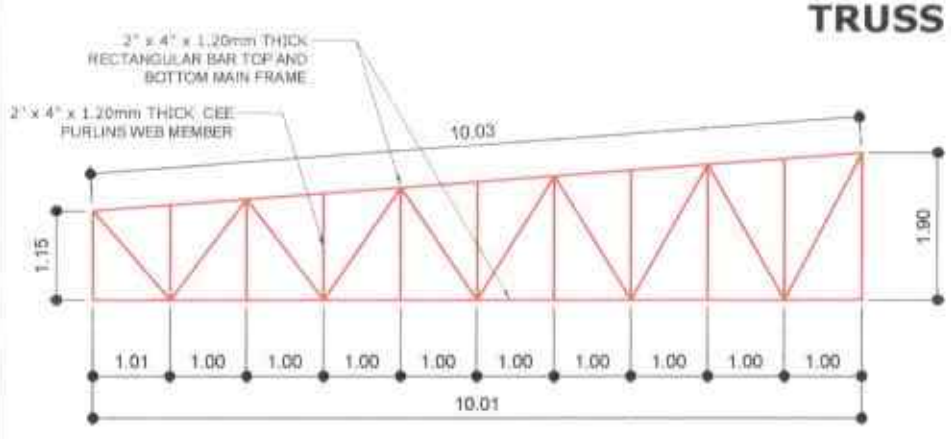
NOTE:
1. TRUSS DIMENSION M



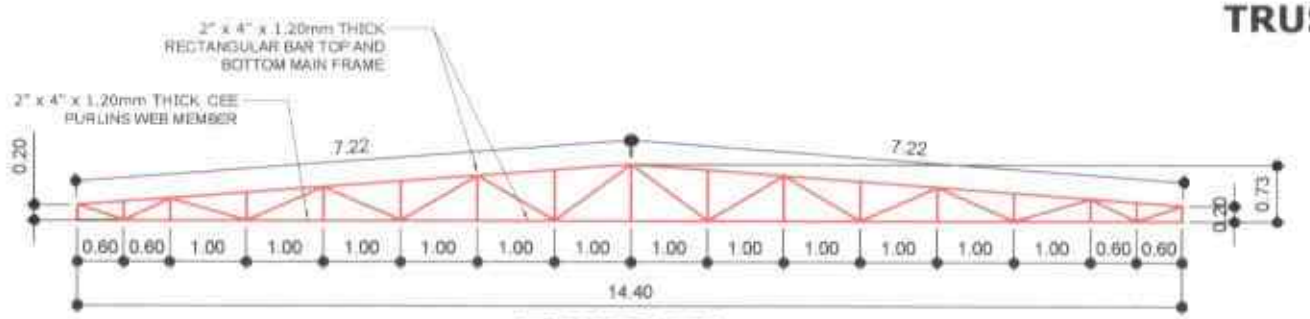
TRUSS 22



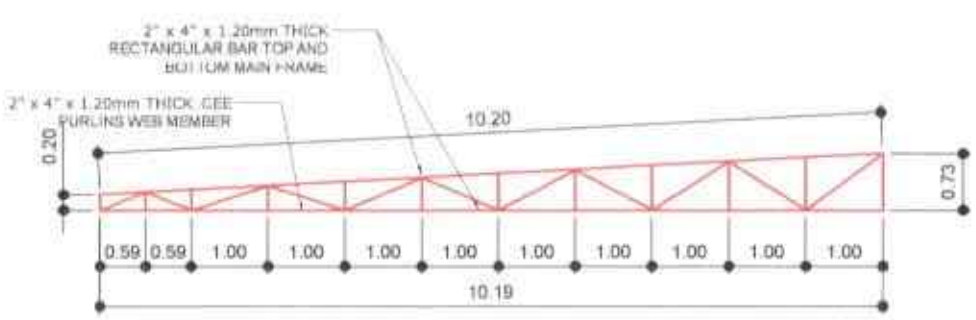
TRUSS 24



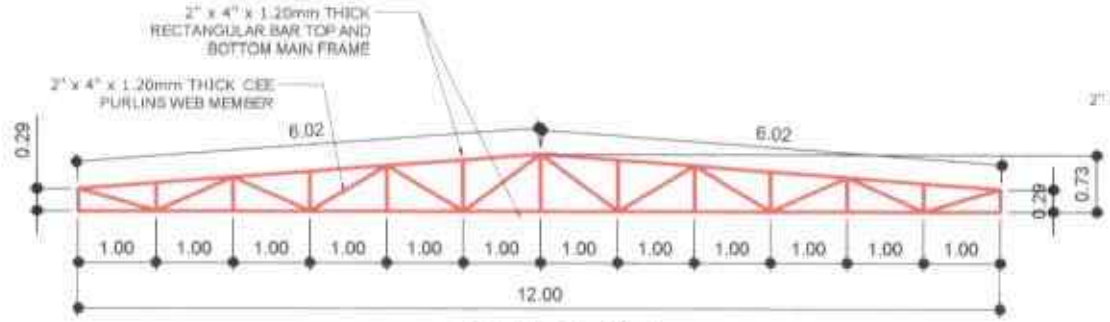
TRUSS 23



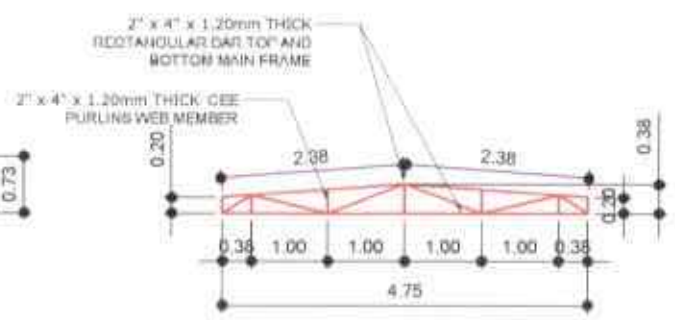
TRUSS 28



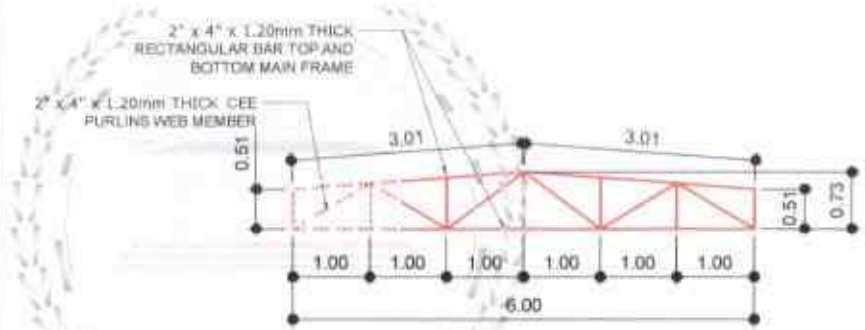
TRUSS 25



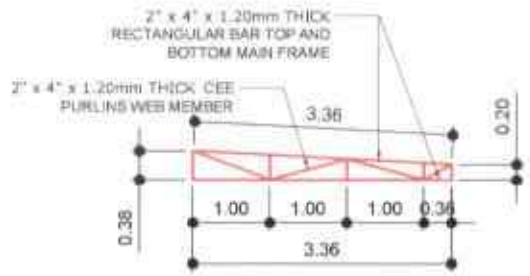
TRUSS 27



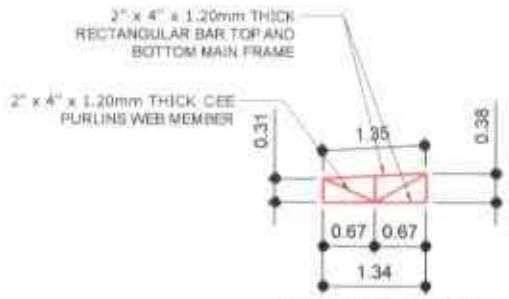
TRUSS 29



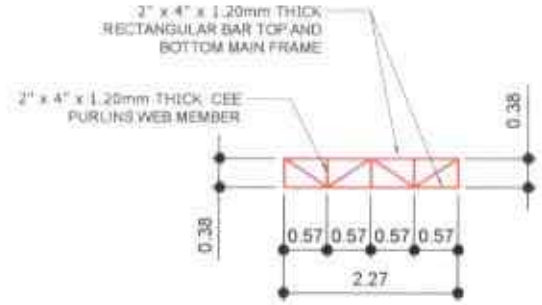
TRUSS 26



TRUSS 30



TRUSS 31



TRUSS 32

S-6 **SCHEDULE OF TRUSSES**

NOTE:
1. TRUSS DIMENSION M

LEGEND	
MARK	DESCRIPTION
	4" ROUND VERTICAL PINLIGHT, RECESSED TYPE, PARTIAL FROSTED GLASS COVER WITH LED BULB 5W, DAYLIGHT
	6" VERTICAL PINLIGHT GLOSS REFLECTOR E27 WITH LED BULB 11W DAYLIGHT
	40W, 1.2m X 0.3m LED PANEL LIGHT, 3,000 LUMENS
	18W, 2m X 1.20m LED STRAIGHT FLUORESCE TUBE,RECESSED LOUVER TYPE
	8" CEILING EXHAUST FAN
	PANEL BOARD
	6WATTS WARM WHITE, LED STRIP LIGHT

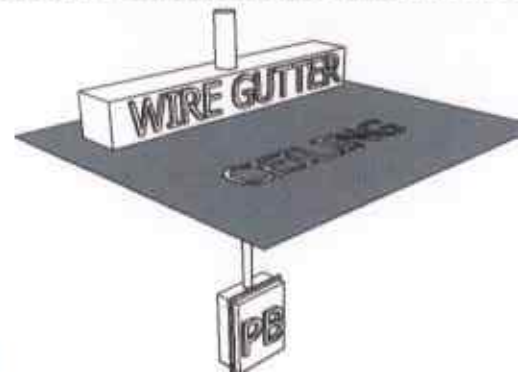
NOTE :

USE SURFACE TYPE/SURFACE MOUNTED SWITCHES FOR THE REPLACEMENT OF OLD/EXISTING SWITCHES.

EXISTING FUSE TYPE BREAKER AND KNIFE SWITCH IN THE PEDIA NURSE STATION SHALL BE REMOVED; CIRCUIT SHALL BE

PROPOSED LIGHTING LAY-OUT

SCALE 1: 100 MTS



LEGEND

MARK	DESCRIPTION
	4" ROUND VERTICAL PINLIGHT, RECESSED TYPE, PARTIAL FROSTED GLASS COVER WITH LED BULB 5W, DAYLIGHT
	6" VERTICAL PINLIGHT GLOSS REFLECTOR E27 WITH LED BULB 11 DAYLIGHT
	40W, 1.2m X 0.3m LED PANEL LIGHT, 3,000 LUMENS
	18W, 2m X 1.20m LED STRAIGHT FLUORESC TUBE,RECESSED LOUVER TYPE
	8" CEILING EXHAUST FAN
	PANEL BOARD
	6WATTS WARM WHITE, LED STRIP LIGHT

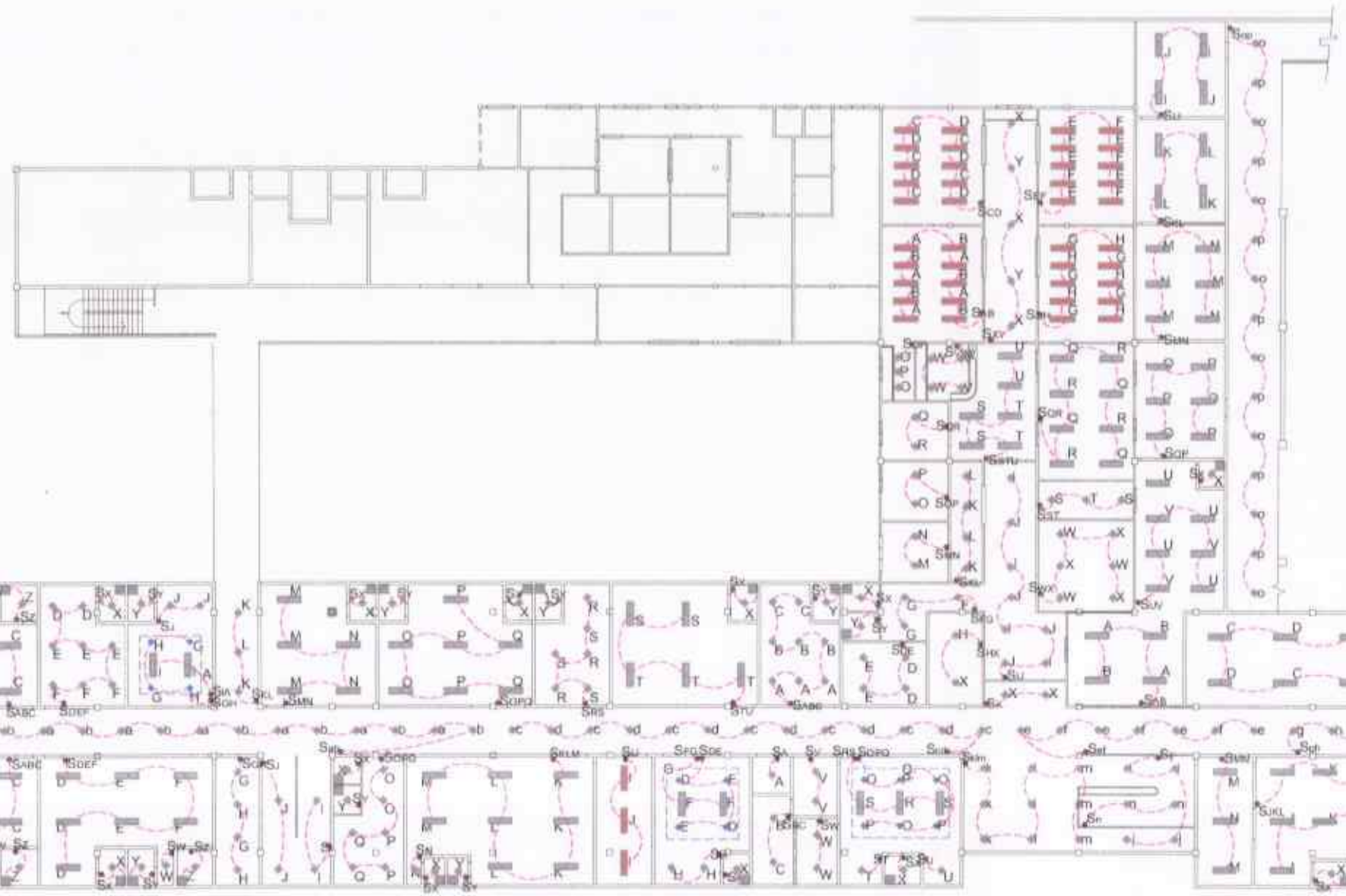
NOTE :

USE SURFACE TYPE/SURFACE MOUNTED SWITCHES FOR THE REPLACEMENT OF OLD/EXISTING SWITCHES.

EXISTING FUSE TYPE BREAKER AND KNIFE SWITCH IN THE PEDIA NURSE STATION SHALL BE REMOVED; CIRCUIT SHALL BE

ELECTRICAL PANEL BOARD LAYOUT

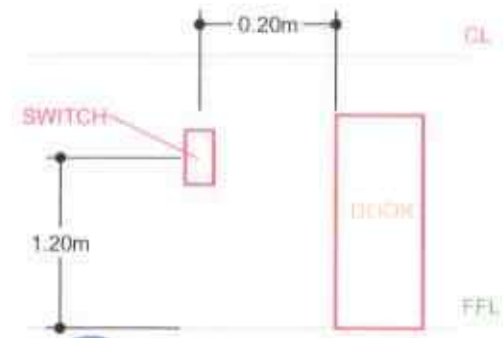
SCALE 1: 100 MTS



PROPOSED SWITCHES LAY-OUT

SCALE 1: 100 MTS

LEGEND	
MARK	DESCRIPTION
	4" ROUND VERTICAL PINLIGHT, RECESSED TYPE, PARTIAL FROSTED GLASS COVER WITH LED BULB 5W, DAYLIGHT
	6" VERTICAL PINLIGHT GLOSS REFLECTOR E27 WITH LED BULB 11 DAYLIGHT
	40W, 1.2m X 0.3m LED PANEL LIGHT, 3,000 LUMENS
	18W, 2m X 1.20m LED STRAIGHT FLUORESC TUBE,RECESSED LOUVER TYPE
	8" CEILING EXHAUST FAN
	PANEL BOARD
	6WATTS WARM WHITE, LED STRIP LIGHT

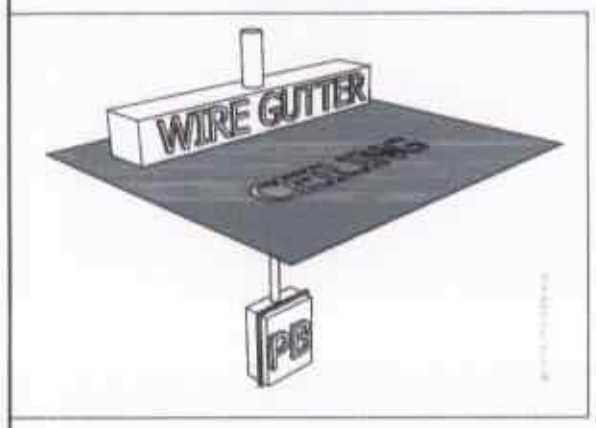


NOTE :

USE SURFACE TYPE/SURFACE MOUNTED SWITCHES FOR THE REPLACEMENT OF OLD/EXISTING SWITCHES.

LEGEND

MARK	DESCRIPTION
	4" ROUND VERTICAL PINLIGHT, RECESSED TYPE, PARTIAL FROSTED GLASS COVER WITH LED BULB 5W, DAYLIGHT
	6" VERTICAL PINLIGHT GLOSS REFLECTOR E27 WITH LED BULB 11W, DAYLIGHT
	40W, 1.2m X 0.3m LED PANEL LIGHT, 3,000 LUMENS
	18W, 2m X 1.20m LED STRAIGHT FLUORESCENT TUBE,RECESSED LOUVER TYPE
	8" CEILING EXHAUST FAN
	PANEL BOARD
	6WATTS WARM WHITE, LED STRIP LIGHT



NOTE :

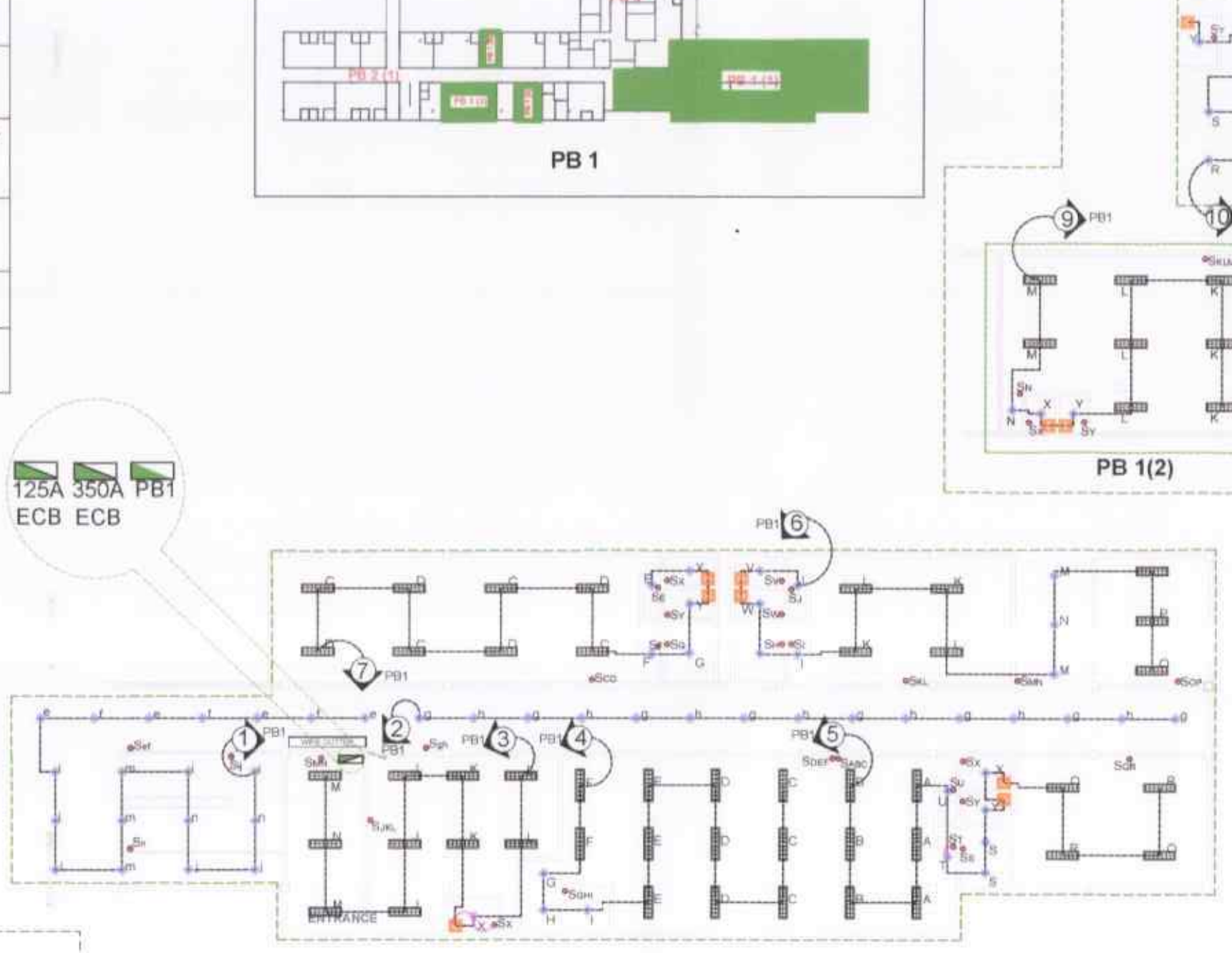
USE SURFACE TYPE/SURFACE MOUNTED SWITCHES FOR THE REPLACEMENT OF OLD/EXISTING SWITCHES.

EXISTING FUSE TYPE BREAKER AND KNIFE SWITCH IN THE PEDIA

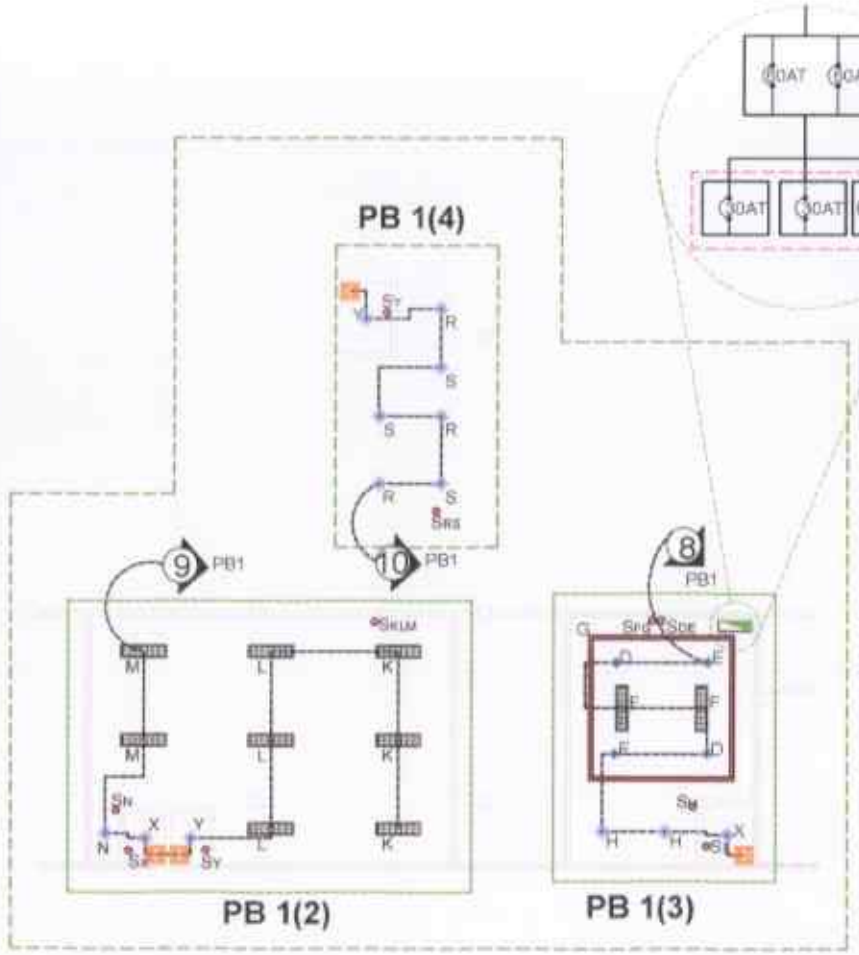
KEYPLAN

PB 1

125A ECB 350A ECB PB1

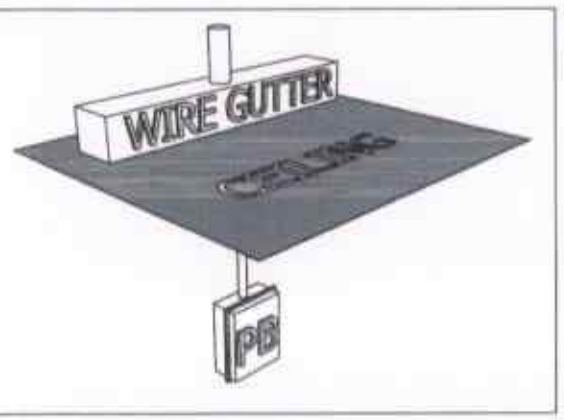


PB 1(1)



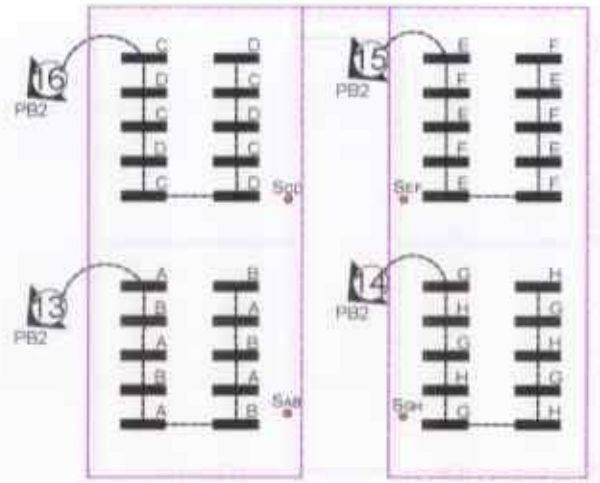
PROPOSED LIGHTING LAY-OUT (PB1)

LEGEND	
MARK	DESCRIPTION
	4" ROUND VERTICAL PINLIGHT, RECESSED TYPE, PARTIAL FROSTED GLASS COVER WITH LED BULB 5W, DAYLIGHT
	6" VERTICAL PINLIGHT GLOSS REFLECTOR E27 WITH LED BULB 11W, DAYLIGHT
	40W, 1.2m X 0.3m LED PANEL LIGHT, 3,000 LUMENS
	18W, 2m X 1.20m LED STRAIGHT FLUORESCENT TUBE,RECESSED LOUVER TYPE
	8" CEILING EXHAUST FAN
	PANEL BOARD
	6WATTS WARM WHITE, LED STRIP LIGHT

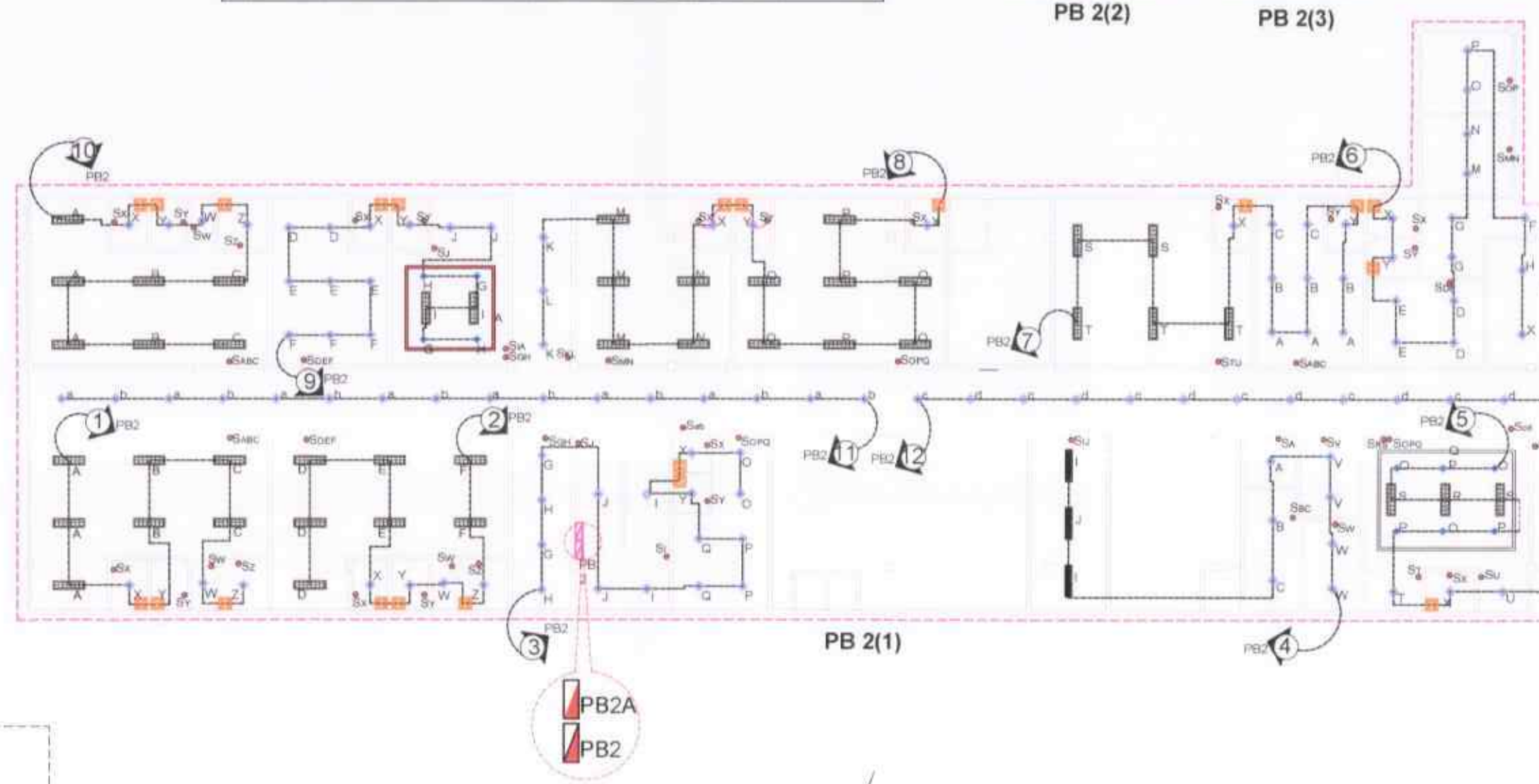


KEYPLAN

PB 2



PB 2(2) PB 2(3)



PB 2(1)

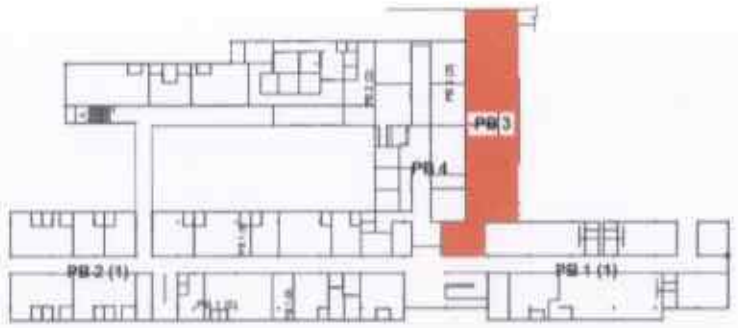
NOTE :

USE SURFACE TYPE/SURFACE MOUNTED SWITCHES FOR THE REPLACEMENT OF OLD/EXISTING SWITCHES.

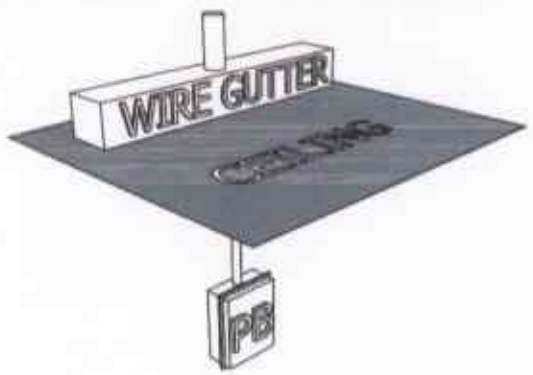
EXISTING FUSE TYPE BREAKER AND KNIFE SWITCH IN THE PEDIA

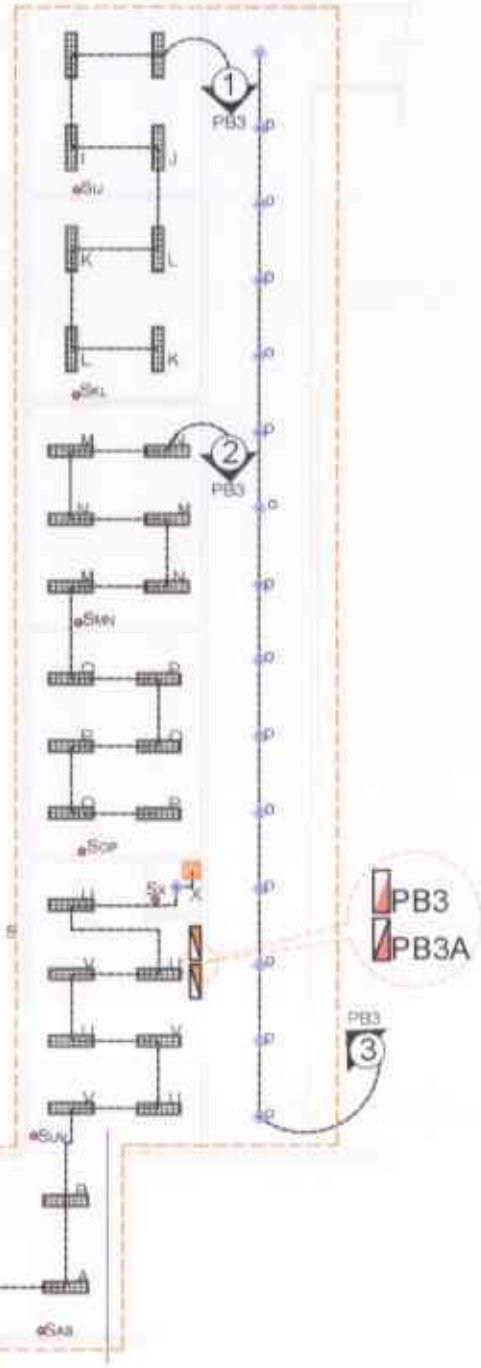
PROPOSED LIGHTING LAY-OUT (PB2)

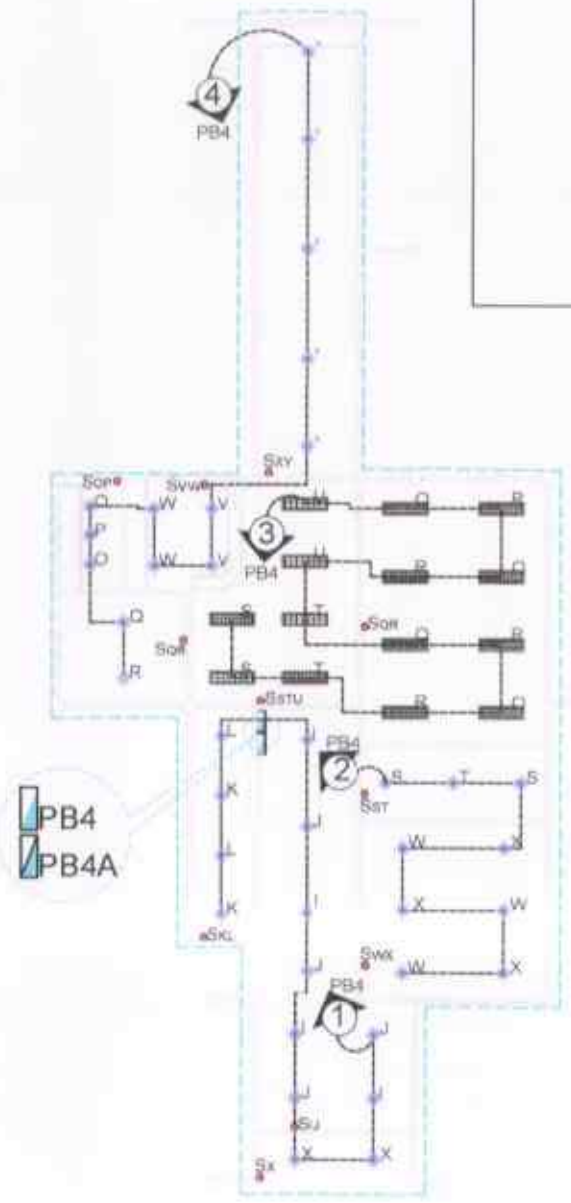
KEYPLAN



PB 3







KEYPLAN

PB 4

LEGEND	
MARK	DESCRIPTION
	4" ROUND VERTICAL PINLIGHT, RECESSED TYPE, PARTIAL FROSTED GLASS COVER WITH LED BULB 5W, DAYLIGHT
	6" VERTICAL PINLIGHT GLOSS REFLECTOR E27 WITH LED BULB 11W, DAYLIGHT
	40W, 1.2m X 0.3m LED PANEL LIGHT, 3,000 LUMENS
	18W, 2m X 1.20m LED STRAIGHT FLUORESCENT TUBE,RECESSED LOUVER TYPE
	8" CEILING EXHAUST FAN
	PANEL BOARD

NOTE :

USE SURFACE TYPE/SURFACE MOUNTED SWITCHES FOR THE REPLACEMENT OF OLD/EXISTING SWITCHES.

EXISTING FUSE TYPE BREAKER AND KNIFE SWITCH IN THE PEDIA

PROPOSED LIGHTING LAY-OUT (PB3&4)

LEGEND	
MARK	DESCRIPTION
JB	JUNCTION BOX
SB	SQUARE BOX
UB	UTILITY BOX
PB	PULL BOX
	POLYVINYL CHLORIDE CONDUIT (PVC)/FLEXIBLE HOSE
	20WATTS, 8" CEILING EXHAUST FAN
	9WATTS WARM WHITE, LED STRIP LIG

125A ECB 350A ECB PB1

PVC PIPE (CONDUITS)

PVC SQUARE BOX

GROUND WIRE
USE BARE OR GREEN
WIRE FOR GROUNDING

USE PVC CLIP
TO SECURE THE CONDUITS
TO THE SQUARE BOX /

WIRE NUTS / CONNECTION
COLORED CAPS (RED, BLUE, AND YELLOW)
USED TO SECURE WIRE CONNECTION

PROPOSED LIGHTING CONDUIT LAY-OUT (PB1)

SCALE 1: 100 MTS

PVC JUNCTION BOX

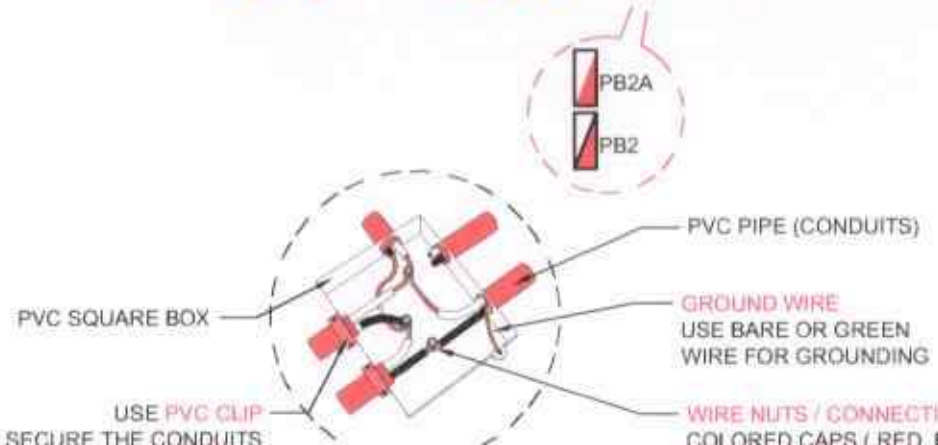
¾ inch Ø PVC PIP

CEILING

PVC JUNCTIO BOX

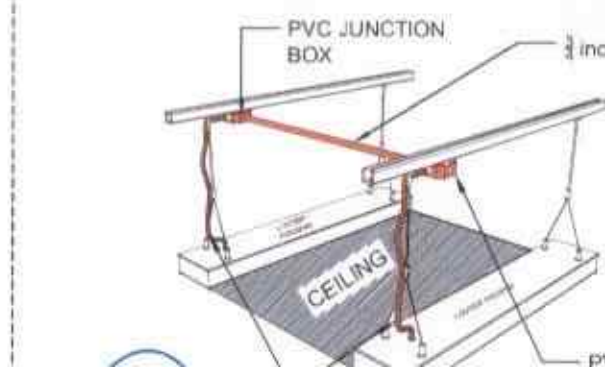
¾ inch Ø ORANGE PVC

LEGEND	
MARK	DESCRIPTION
JB	JUNCTION BOX
SB	SQUARE BOX
UB	UTILITY BOX
PB	PULL BOX
—	POLYVINYL CHLORIDE CONDUIT (PVC)/FLEXIBLE HOSE
	20WATTS, 8" CEILING EXHAUST FAN
	9WATTS WARM WHITE, LED STRIP LIGHT

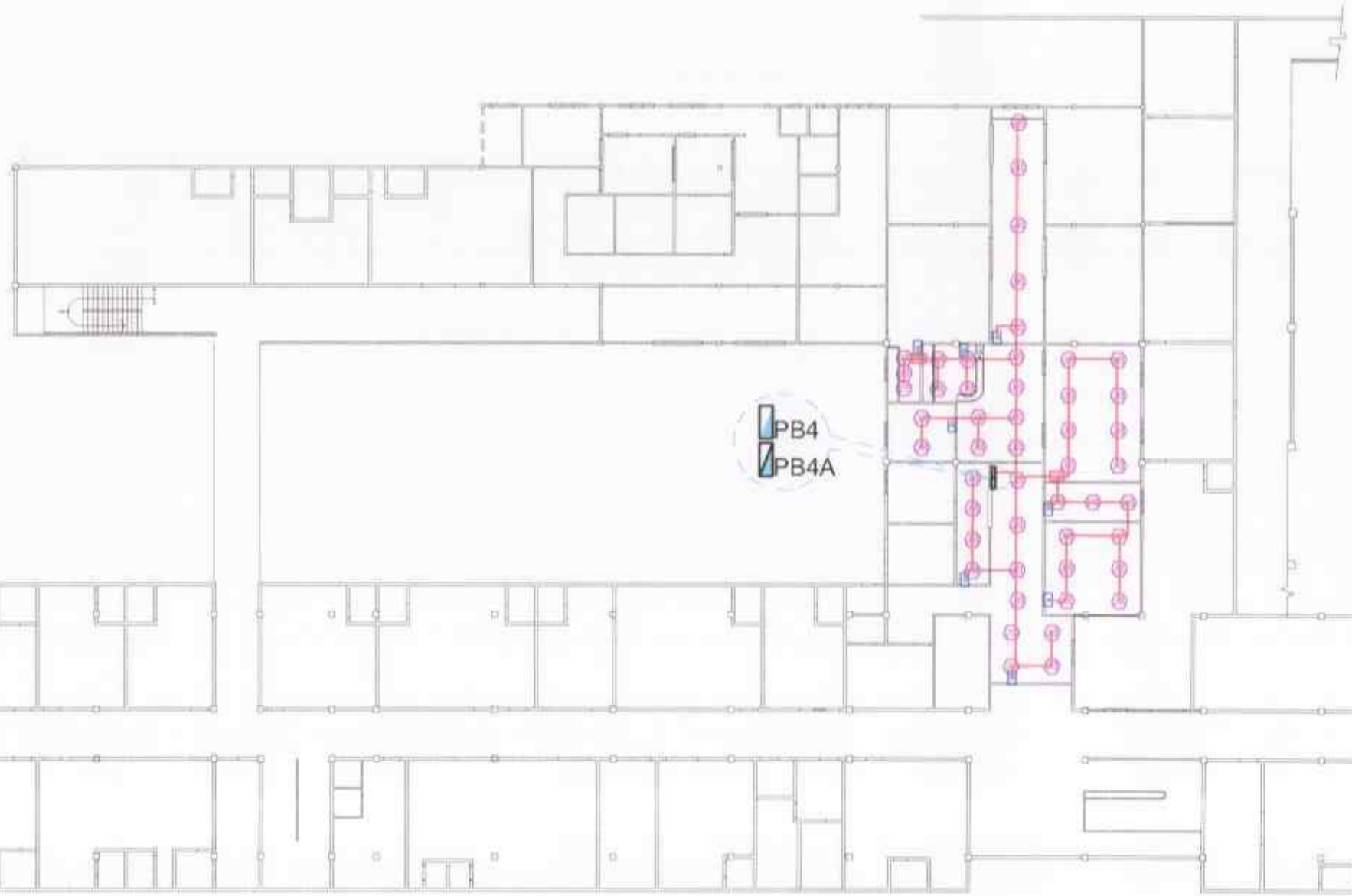


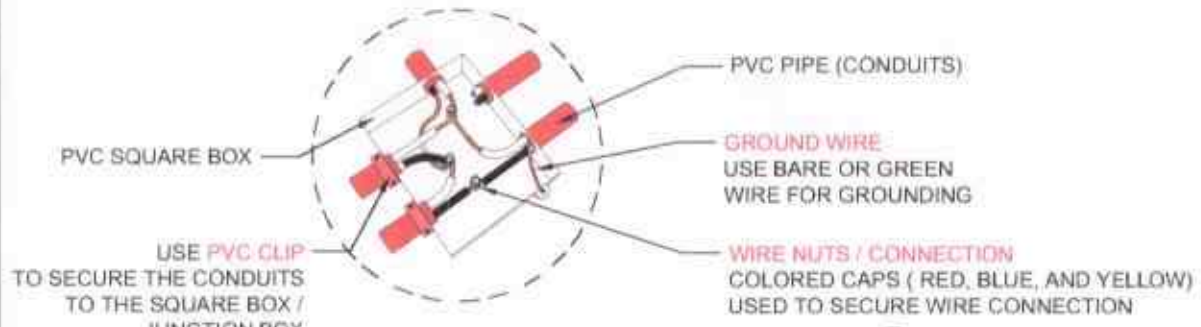
PROPOSED LIGHTING CONDUIT LAY-OUT (PB 2)

SCALE 1: 100 MTS

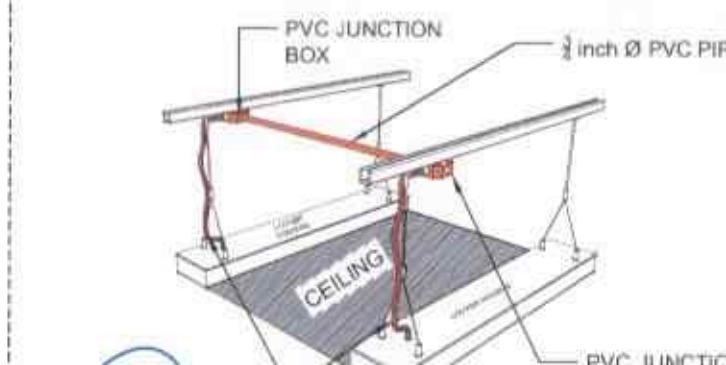


LEGEND	
MARK	DESCRIPTION
JB	JUNCTION BOX
SB	SQUARE BOX
UB	UTILITY BOX
PB	PULL BOX
	POLYVINYL CHLORIDE CONDUIT (PVC)/FLEXIBLE HOSE
	20WATTS, 8" CEILING EXHAUST FAN
	9WATTS WARM WHITE, LED STRIP LIGH

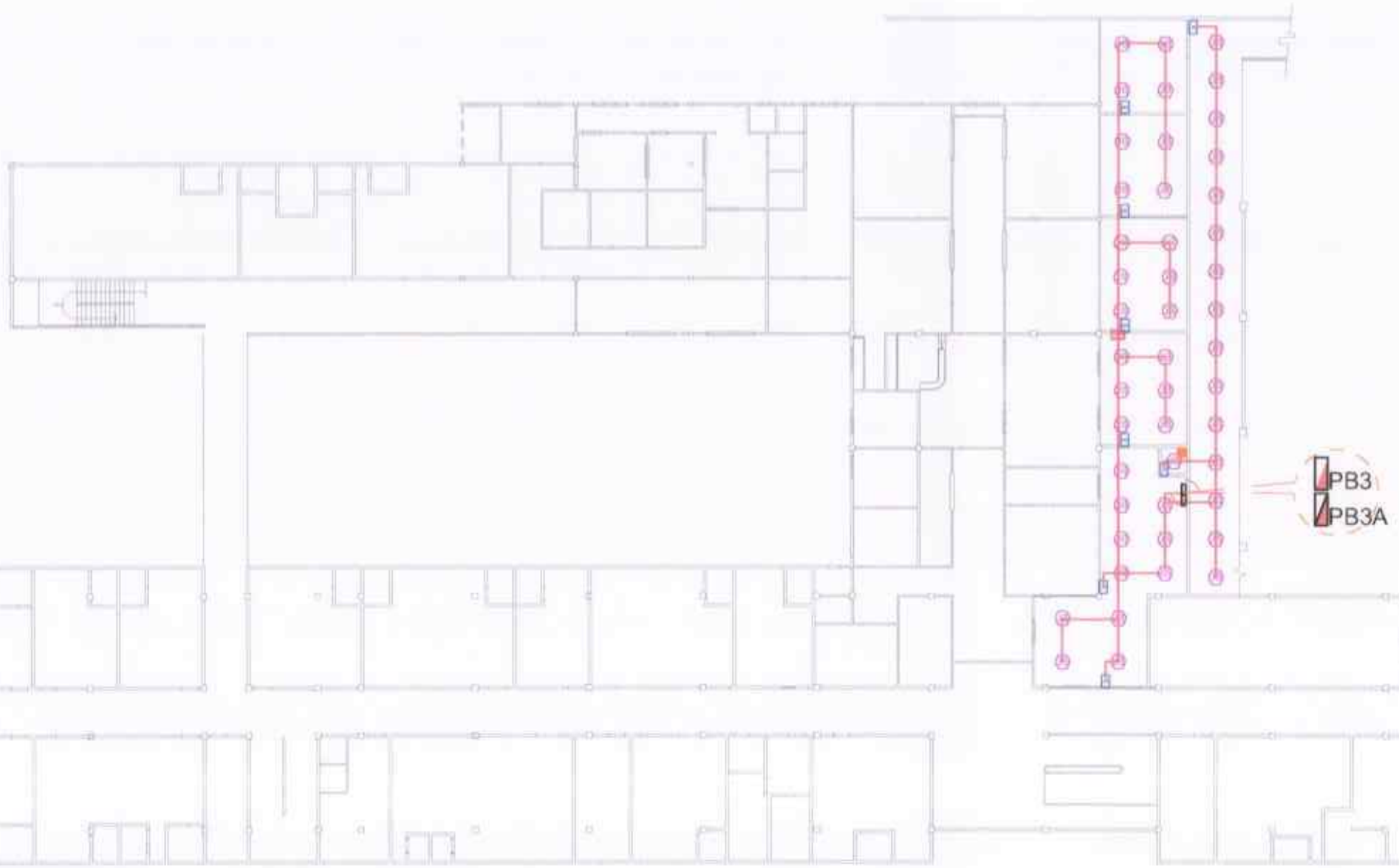


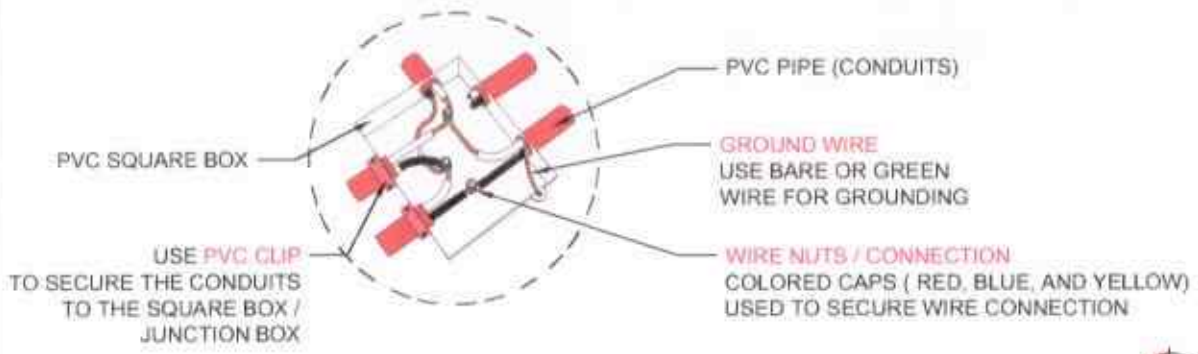


PROPOSED LIGHTING CONDUIT LAY-OUT (PB 3)

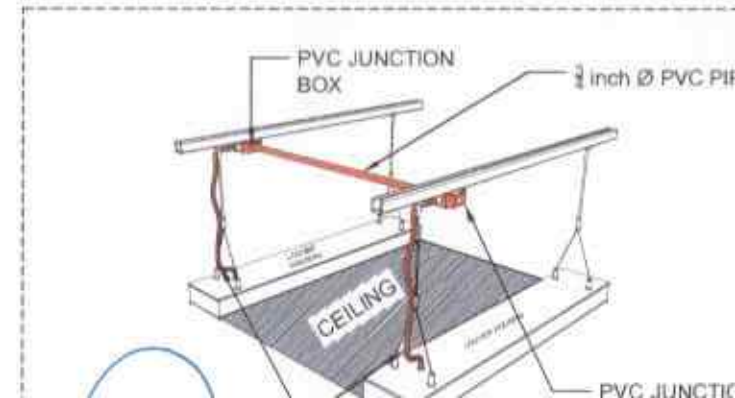


LEGEND	
MARK	DESCRIPTION
JB	JUNCTION BOX
SB	SQUARE BOX
UB	UTILITY BOX
PB	PULL BOX
	POLYVINYL CHLORIDE CONDUIT (PVC)/FLEXIBLE HOSE
	20WATTS, 8" CEILING EXHAUST FAN
	9WATTS WARM WHITE, LED STRIP LIG





PROPOSED LIGHTING CONDUIT LAY-OUT (PB 4)



PB1 - PANEL BOARD 1

CIRCUIT NO.	DESCRIPTION	QTY.	VA	VOLT	AMPERES AB	BC	CA	CKT. PROTECTION	SIZE OF WIRE	SIZE OF CONDUIT
1	LIGHTING OUTLET	19	342	230		1.49		15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
2	LIGHTING OUTLET	15	270	230		1.17		15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
3	LIGHTING OUTLET	12	238	230			1.03	15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
4	LIGHTING OUTLET	14	274	230	1.19			15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
5	LIGHTING OUTLET	18	348	230		1.51		15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
6	LIGHTING OUTLET	17	324	230			1.41	15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
7	LIGHTING OUTLET	15	290	230	1.26			15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
8	LIGHTING OUTLET	11	284	230		1.23		15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
9	LIGHTING OUTLET	13	254	230			1.10	15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
10	LIGHTING OUTLET	8	146	230	0.63			15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
11	SPARE FOR POWER OUTLET	8	1440	230		6.26		20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
12	SPARE FOR POWER OUTLET	8	1440	230			6.26	20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
13	SPARE FOR POWER OUTLET	8	1440	230	6.26			20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
14	SPARE FOR POWER OUTLET	8	1440	230		6.26		20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
15	SPARE FOR ACU (2.5HP)	1	3450	230			15	30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
16	SPARE FOR ACU (2HP)	1	2760	230	12			30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
17	SPARE	-	2300	230		10		-	-	-
18	SPARE	-	1000	230			4.35	-	-	-
					27.60	26.62	28.06			

I_R = 23.35 (1.73) + (0.25*12) = 43.44 A — FEEDER : 3 - 14mm² THHN + 1- 5.5mm² THHN WIRE (G) IN 32mm Ø PVC PIPE — MAIN CB: 100AT, 60Hz, 230V, 3P

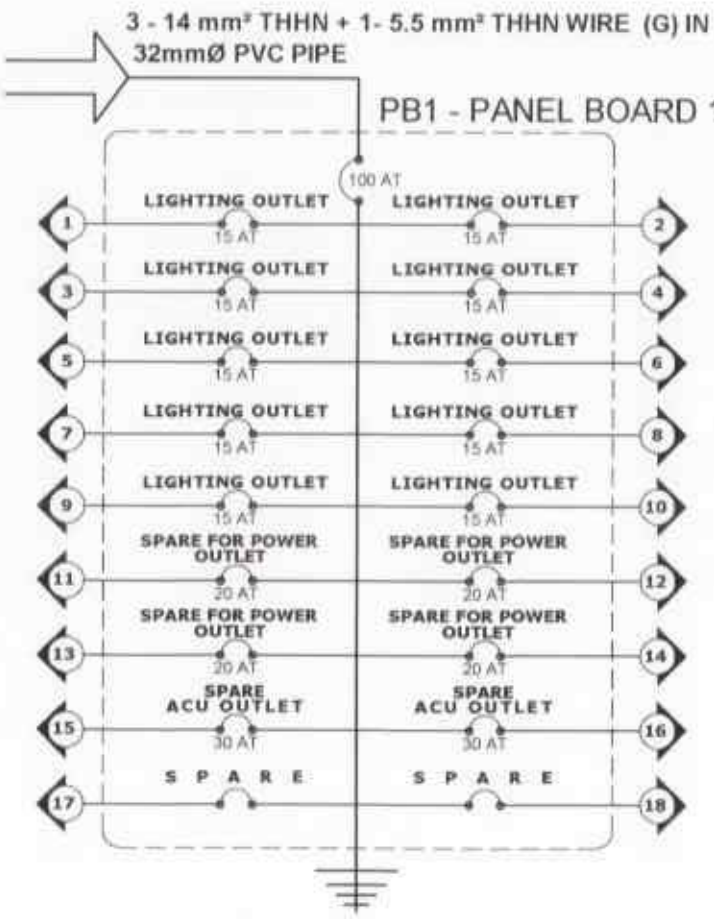
PB2A - PANEL BOARD 2A (AIRCONDITIONING UNIT PANEL)

CIRCUIT NO.	DESCRIPTION	QTY.	VA	VOLT	AMPERES AB	BC	CA	CKT. PROTECTION	SIZE OF WIRE	SIZE OF CONDUIT
1	SPARE FOR ACU (1.5HP)	1	2300	230	10			30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
2	SPARE FOR ACU (1.5HP)	1	2300	230		10		30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
3	SPARE FOR ACU (1.5HP)	1	2300	230			10	30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
4	SPARE FOR ACU (1HP)	1	1840	230	8			30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
5	SPARE FOR ACU (1.5HP)	1	2300	230		10		30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
6	SPARE FOR ACU (2HP)	1	2760	230			12	30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
7	SPARE FOR ACU (1HP)	1	1840	230	8			30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
8	SPARE FOR ACU (1.5HP)	1	2300	230		10		30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
9	SPARE	1	1840	230			8	30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
10	SPARE	1	1840	230	8			30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
					34.00	30.00	30.00			

I_T = 34.00*(1.73) + (0.25*12) = 61.89 A
FOR CONDUCTOR PROTECTION = 61.89 * 1.25 = 77.36 A — FEEDER : 3 - 22mm² THHN + 1- 8.0mm² THHN WIRE (G) IN 40mm Ø PVC PIPE — MAIN CB: 100AT, 60Hz, 230V, 3P

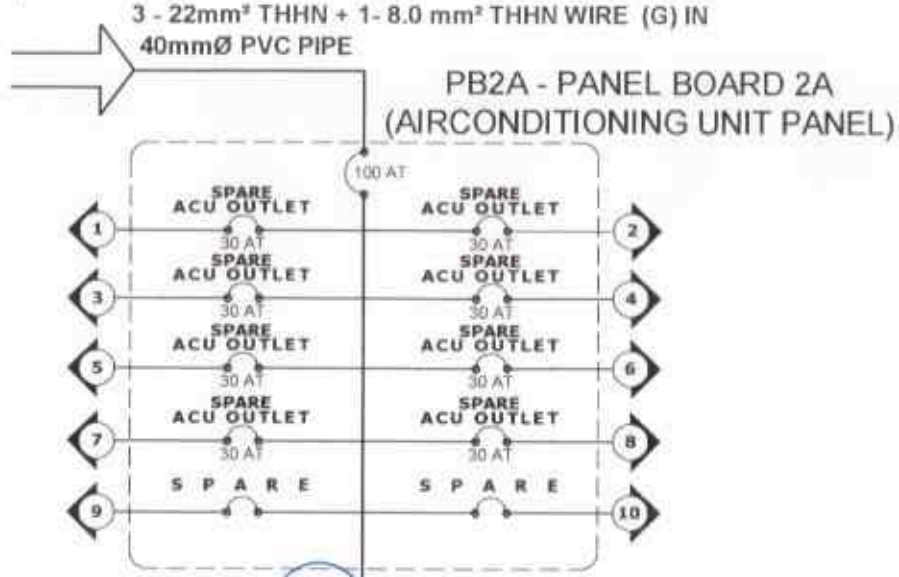
E-11 / 1 2

ONE LINE DIAGRAM (PB1)



E-11 / 2 2

ONE LINE DIAGRAM (PB2A)

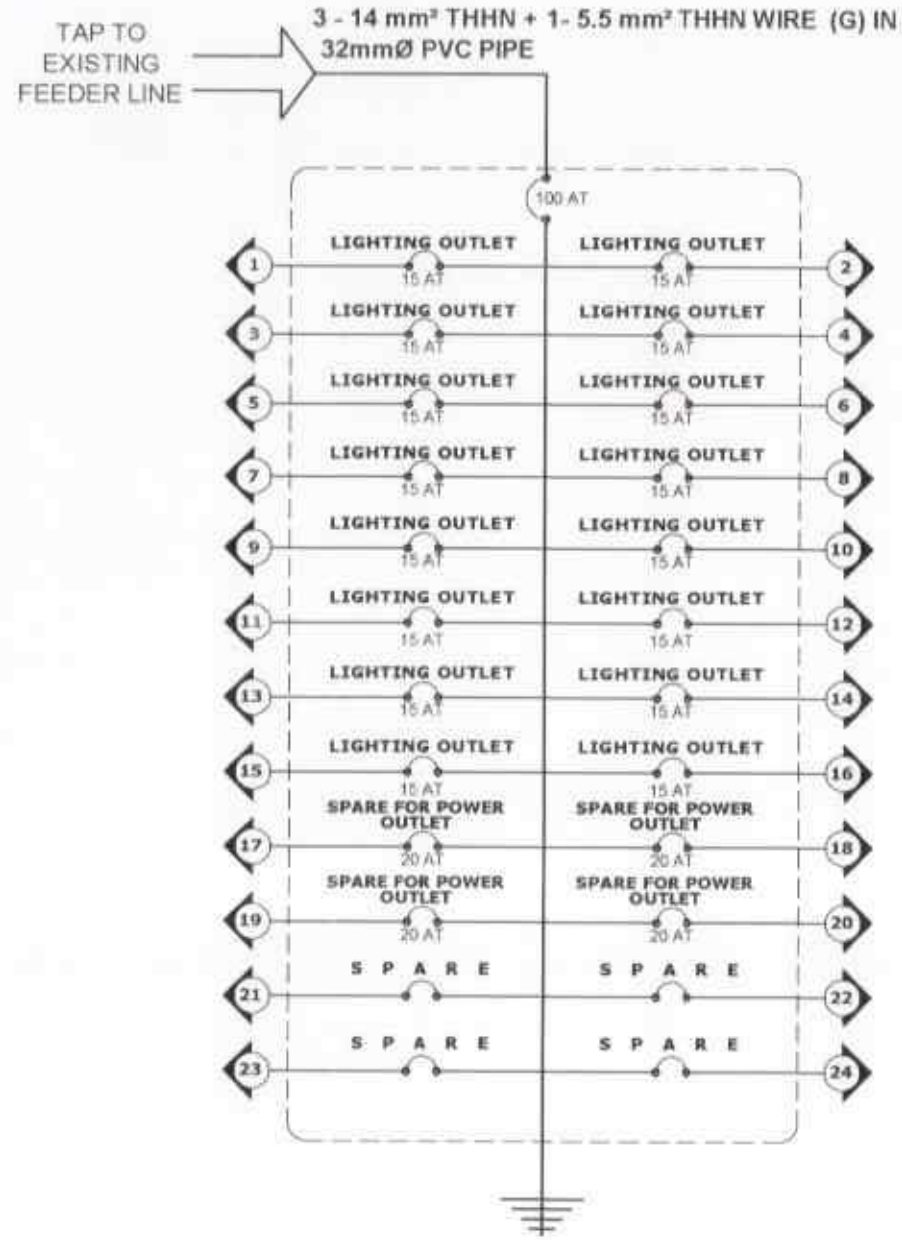


PB2 - PANEL BOARD 2

CIRCUIT NO.	DESCRIPTION	QTY.	VA	VOLT	AMPERES AB	BC	CA	CKT. PROTECTION	SIZE OF WIRE	SIZE OF CONDUIT
1	LIGHTING OUTLET	14	272	230	1.18			15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
2	LIGHTING OUTLET	14	272	230		1.18		15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
3	LIGHTING OUTLET	18	328	230			1.43	15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
4	LIGHTING OUTLET	7	276	230	1.20			15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
5	LIGHTING OUTLET	17	418	230		1.82		15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
6	LIGHTING OUTLET	17	310	230			1.35	15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
7	LIGHTING OUTLET	17	320	230	1.40			15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
8	LIGHTING OUTLET	21	408	230		1.77		15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
9	LIGHTING OUTLET	21	316	230			1.37	15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
10	LIGHTING OUTLET	14	272	230	1.18			15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
11	LIGHTING OUTLET	16	288	230		1.25		15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
12	LIGHTING OUTLET	15	270	230			1.17	15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
13	LIGHTING OUTLET	10	500	230	2.17			15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
14	LIGHTING OUTLET	10	500	230		2.17		15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
15	LIGHTING OUTLET	10	500	230			2.17	15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
16	LIGHTING OUTLET	10	500	230	2.17			15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
17	SPARE FOR POWER OUTLET	8	1440	230		6.26		20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
18	SPARE FOR POWER OUTLET	8	1440	230			6.26	20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
19	SPARE FOR POWER OUTLET	8	1440	230	6.26			20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
20	SPARE FOR POWER OUTLET	8	1440	230		6.26		20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
21	SPARE		1440	230			6.26	-	-	-
22	SPARE		1440	230	6.26			-	-	-
23	SPARE		500	230		2.17		-	-	-
24	SPARE		500	230			2.17	-	-	-
					21.82	22.88	22.18			

I_T = 22.88*(1.73) = 39.63 A | FEEDER 3 - 14mm² THHN + 1- 5.5mm² THHN WIRE (G) IN 32mm Ø PVC PIPE | MAIN CB: 100AT, 60Hz, 230V, 3P

E-12 ONE LINE DIAGRAM (PB2)



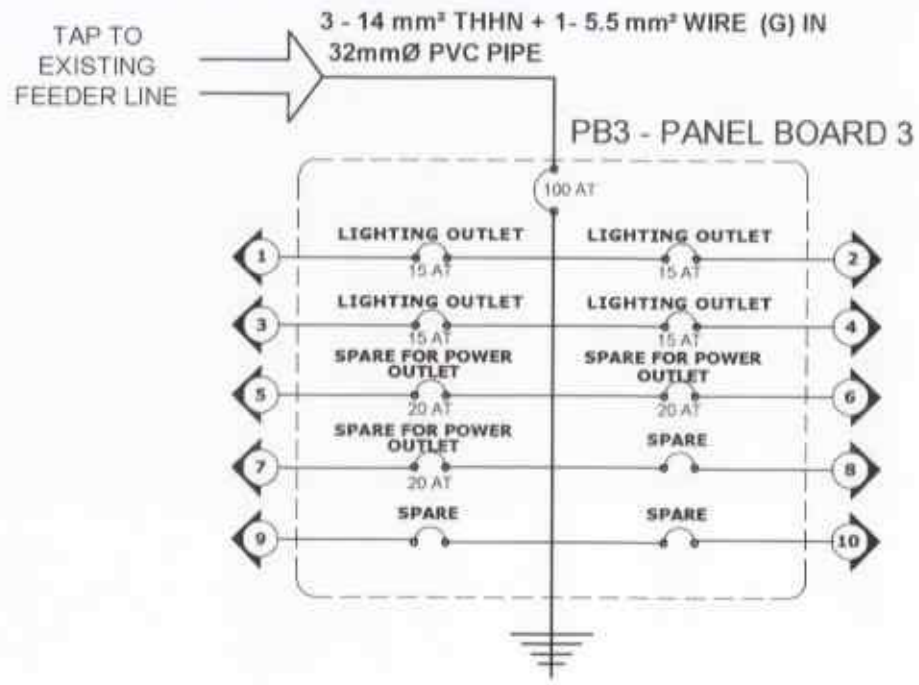
PB3 - PANEL BOARD 3

CIRCUIT NO.	DESCRIPTION	QTY.	VA	VOLT	AMPERES AB	BC	CA	CKT. PROTECTION	SIZE OF WIRE	SIZE OF CONDUIT
1	LIGHTING OUTLET	8	160	230	0.70			15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
2	LIGHTING OUTLET	12	240	230		1.04		15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
3	LIGHTING OUTLET	15	270	230			1.17	15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
4	LIGHTING OUTLET	13	258	230	1.12			15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
5	SPARE FOR POWER OUTLET	8	1440	230		6.26		20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
6	SPARE FOR POWER OUTLET	8	1440	230			6.26	20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
7	SPARE FOR POWER OUTLET	8	1440	230	6.26			20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
8	SPARE	-	1000	230		4.35		-	-	-
9	SPARE	-	1000	230			4.35	-	-	-
10	SPARE	-	1000	230	4.35			-	-	-
					12.43	11.65	11.78			

I_T = 12.43*(1.73) = 21.53A — FEEDER : 3 - 14mm² THHN + 1- 5.5mm² THHN WIRE (G) IN 32mm Ø PVC PIPE — MAIN CB: 100AT, 60Hz, 230V, 3P

E-13 | 1 | 2

ONE LINE DIAGRAM (PB3)



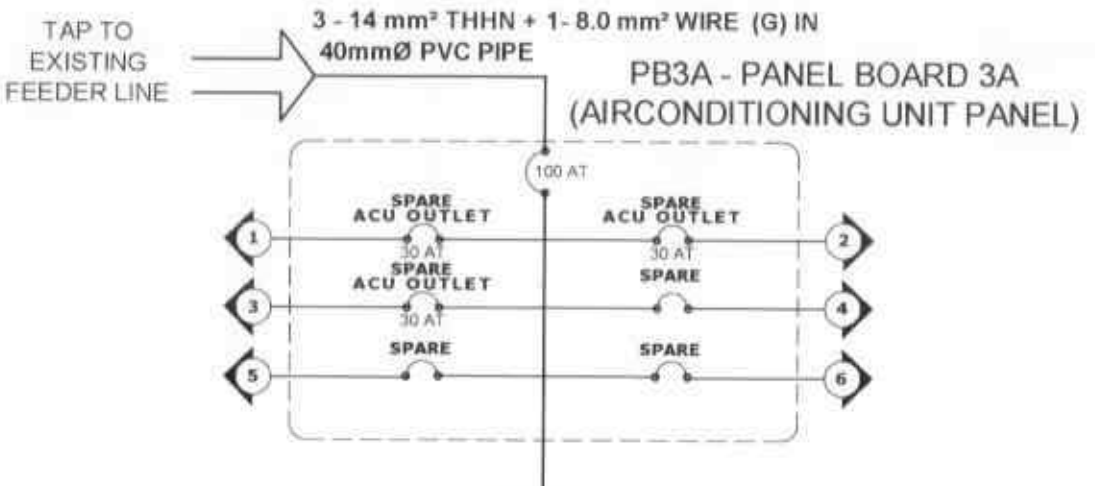
PB3A - PANEL BOARD 3A (AIRCONDITIONING UNIT PANEL)

CIRCUIT NO.	DESCRIPTION	QTY.	VA	VOLT	AMPERES AB	BC	CA	CKT. PROTECTION	SIZE OF WIRE	SIZE OF CONDUIT
1	SPARE FOR ACU (3TR)	1	4600	230	20			30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
2	SPARE FOR ACU (2HP)	1	2760	230		12		30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
3	SPARE FOR ACU (2HP)	1	2760	230			12	30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
4	SPARE	-	2760	230	12			-	-	-
5	SPARE	-	4600	230		20		-	-	-
6	SPARE	-	4600	230			20	-	-	-
					32.00	32.00	32.00			

I_T = 32.00*(1.73) + (0.25*20) = 60.43 A
FOR CONDUCTOR PROTECTION = 60.43 * 1.25 = 75.53 A — FEEDER : 3 - 14mm² THHN + 1- 8.0mm² THHN WIRE (G) IN 40mm Ø PVC PIPE — MAIN CB: 100AT, 60Hz, 230V, 3P

E-13 | 2 | 2

ONE LINE DIAGRAM (PB3A)



PB4 - OPERATING ROOM PANEL BOARD

CIRCUIT NO.	DESCRIPTION	QTY.	VA	VOLT	AMPERES AB	AMPERES BC	AMPERES CA	CKT. PROTECTION	SIZE OF WIRE	SIZE OF CONDUIT
1	LIGHTING OUTLET	14	252	230	1.10			15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
2	LIGHTING OUTLET	9	162	230		0.70		15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
3	LIGHTING OUTLET	14	280	230			1.22	15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
4	LIGHTING OUTLET	14	252	230	1.10			15 AT	2-2.0 mm² THHN	20mm Ø UPVC PIPE
5	SPARE FOR POWER OUTLET	8	1440	230		6.26		20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
6	SPARE FOR POWER OUTLET	8	1440	230			6.26	20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
7	SPARE FOR POWER OUTLET	8	1440	230	6.26			20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
8	SPARE FOR POWER OUTLET	6	1080	230		4.70		20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
9	SPARE FOR POWER OUTLET	5	900	230			3.91	20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
10	SPARE FOR POWER OUTLET	8	1440	230	6.26			20 AT	2-3.5 mm² THHN	20mm Ø UPVC PIPE
11	SPARE	-	1000	230		4.35		-	-	-
12	SPARE	-	1000	230			4.35	-	-	-
					14.72	16.01	15.74			

I_T = 16.01*(1.73) = 27.73 A | FEEDER : 3 - 14mm² THHN + 1- 5.5mm² THHN WIRE (G) IN 32mm Ø PVC PIPE | MAIN CB: 100AT, 60Hz, 230V, 3P

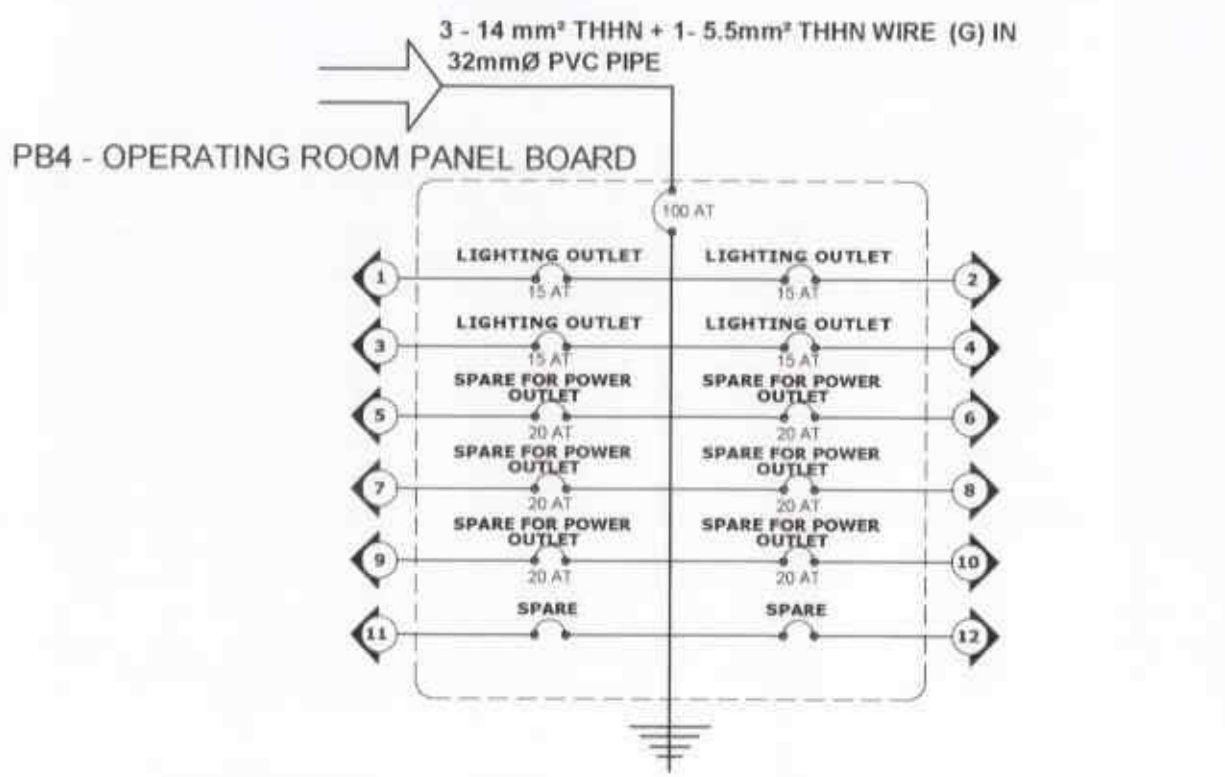
PB4A - PANEL BOARD4A (AIRCONDITIONING UNIT PANEL)

CIRCUIT NO.	DESCRIPTION	QTY.	VA	VOLT	AMPERES AB	AMPERES BC	AMPERES CA	CKT. PROTECTION	SIZE OF WIRE	SIZE OF CONDUIT
1	SPARE FOR ACU (3TR)	1	4600	230	20			30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
2	SPARE FOR ACU (3TR)	1	4600	230		20		30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
3	SPARE FOR ACU (3TR)	1	4600	230			20	30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
4	SPARE FOR ACU (2HP)	1	2760	230	12			30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
5	SPARE FOR ACU (3HP)	1	3910	230		17		30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
6	SPARE FOR ACU (3TR)	1	4600	230			20	30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
7	SPARE FOR ACU (2HP)	1	2760	230	12			30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
8	SPARE FOR ACU (2HP)	1	2760	230		12		30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
9	SPARE FOR ACU (2HP)	1	2760	230			12	30 AT	2-5.5 mm² THHN	20mm Ø UPVC PIPE
10	SPARE	-	1840	230	8			-	-	-
					52.00	49.00	52.00			

I_T = 52.00 (1.73) + (0.25*20) = 95.10 A
FOR CONDUCTOR PROTECTOR = 95.10 * 1.25 = 118.90 A | FEEDER : 3 - 38mm² THHN + 1- 14mm² THHN WIRE (G) IN 50mm Ø PVC PIPE | MAIN CB 125AT, 60Hz, 230V, 3P

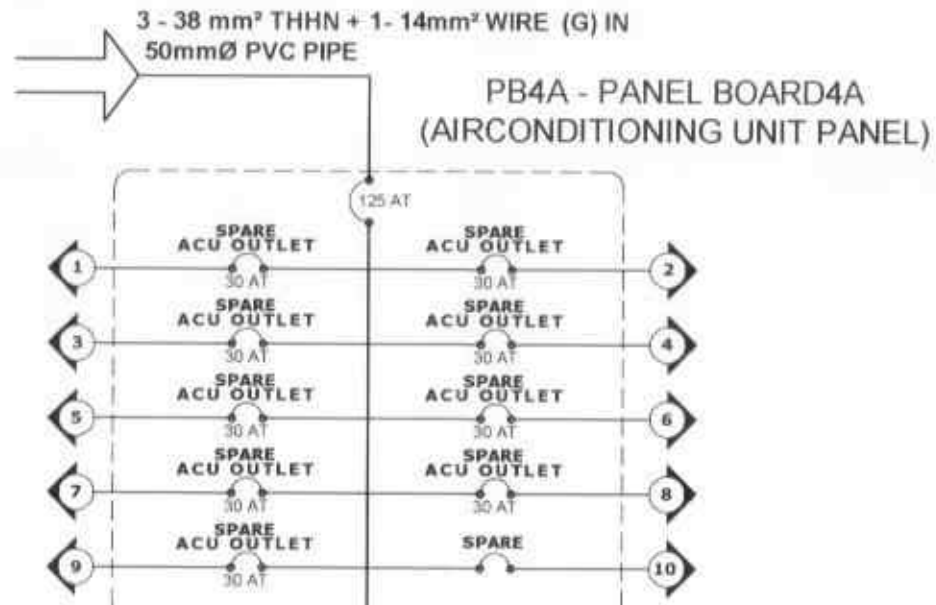
E-14 1 2

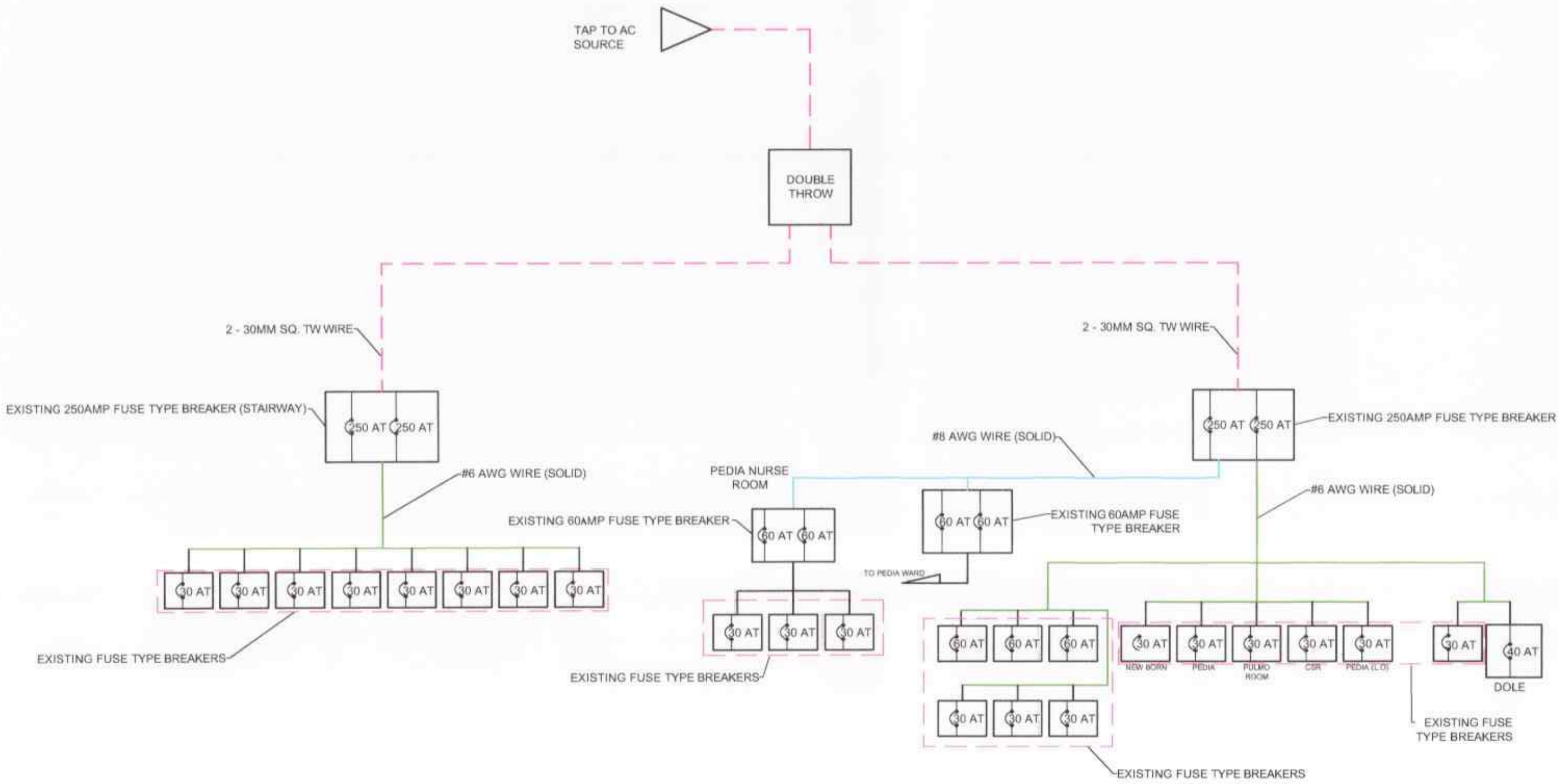
ONE LINE DIAGRAM (PB4)



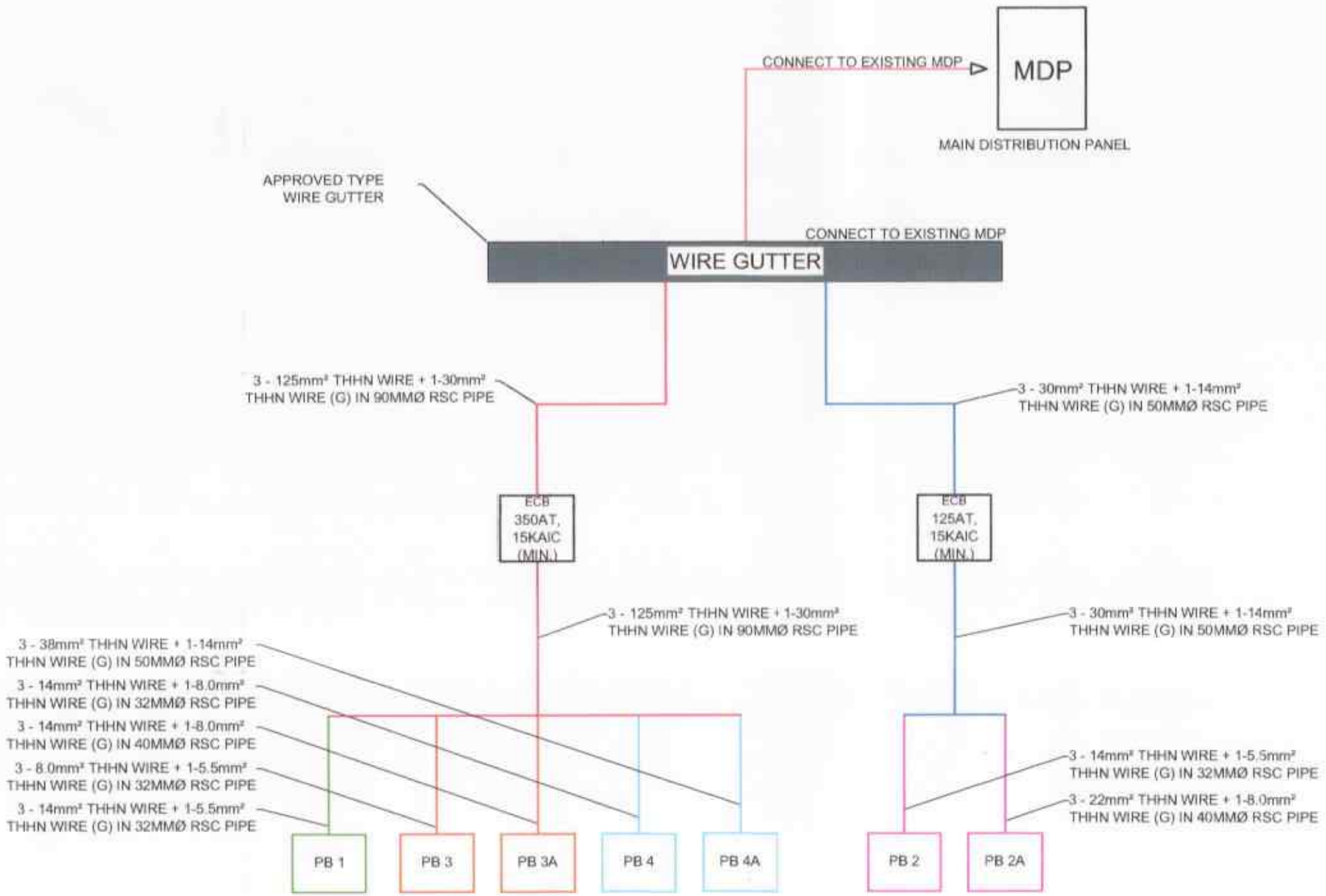
E-14 2 2

ONE LINE DIAGRAM (PB4A)





E-15 **EXISTING SINGLE LINE DIAGRAM**



PROPOSED SINGLE LINE DIAGRAM

NOTES & SPECIFICATION

1. ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE(PEC). THE RULES AND REGULATION OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY THE ELECTRICAL WORKS SHALL BE UNDER IMMEDIATE SUPERVISION OF DULY REGISTERED ELECTRICAL ENGINEER.

2. THE ELECTRICAL SERVICE POWER IS 2-PHASE, 3-WIRE, 230V AC, 60Hz.

3. WIRING METHOD SHALL BE AS FOLLOWS:
   a. FEEDERS AND RISER
   b. LIGHTING, POWER RECEPTACLE
   -POLYVINYL CHLORIDE CONDUIT
   BRANCH CKT. & AUXILIARY
   SCH. 40. SERIES 1000

4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED N THE PLAN. THE MINIMUM SIZE OF THE WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 2.0mm AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 15mm TRADE NOMINAL SIZE.

5. ALL OUTLET BOXES SHALL BE POLYVINYL CHLORIDE CONDUIT BRANCH CKT. & AUXILIARY SCH. 40. SERIES 1000

6. ALL MATERIAL TO BE USED SHALL BE BRAND NEW AND OF APPROVED TYPE IN PARTICULAR SPECIFIED LOCATION AND AS PER PURPOSE OF USAGE.

7. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:

   a. LIGHT SWITCH - 1.20M ABOVE FINISH FLOOR

8. ALL ELECTRICAL ROUGHING INS/CONDUITS MUST BE CHECKED BY THE DESIGNER AND THE PROJECT ENGINEER PRIOR TO PULLING OF WIRES.

SUMMARY OF LOADS

	PANEL BOARD	VOLTAGE	AMPERES			CIRCUIT PROTECTION	SIZE OF WIRE	SIZE OF CONDUIT
			AB	BC	CA			
1	PB1	230	43.44	43.44	43.44	60 AT	3 - 14mm² THHN WIRE + 1-5.5mm² THHN WIRE (G)	32 mmØ RSC Pipe
2	PB3	230	21.53	21.53	21.53	60 AT	3 - 8.0mm² THHN WIRE + 1-5.5mm² THHN WIRE (G)	32 mmØ RSC Pipe
3	PB3A	230	60.43	60.43	60.43	100 AT	3 - 14mm² THHN WIRE + 1-8.0mm² THHN WIRE (G)	40 mmØ RSC Pipe
4	PB4	230	27.73	27.73	27.73	60 AT	3 - 14mm² THHN WIRE + 1-5.5mm² THHN WIRE (G)	32 mmØ RSC Pipe
5	PB4A	230	95.10	95.10	95.10	125 AT	3 - 38mm² THHN WIRE + 1-14mm² THHN WIRE (G)	50 mmØ RSC Pipe
	I_T = 248.23 A		248.23	248.23	248.23			
FEEDER : 3 - 125mm² THHN + 1-30mm² THHN WIRE (G) 90mm Ø PVC PIPE							MAIN CB: 350A, 15KAIC minimum, 230V, 3P	

SUMMARY OF LOADS (STAIRWAY)

	PANEL BOARD	VOLTAGE	AMPERES			CIRCUIT PROTECTION	SIZE OF WIRE	SIZE OF CONDUIT
			AB	BC	CA			
1	PB2	230	39.63	39.63	39.63	60 AT	3 - 14mm² THHN WIRE + 1-5.5mm² THHN WIRE (G)	32 mmØ RSC Pipe
2	PB2A	230	61.89	61.89	61.89	100 AT	3 - 22mm² THHN WIRE + 1-8.0mm² THHN WIRE (G)	40 mmØ RSC Pipe
	I_T = 101.52 A		101.52	101.52	101.52			
FEEDER : 3 - 30mm² THHN + 1-14mm² THHN WIRE (G) 50mm Ø PVC PIPE							MAIN CB: 125A, 15KAIC minimum, 230V, 3P	

LOCATION MAP

LEGEND

MARK	DESCRIPTION
	4" ROUND VERTICAL PINLIGHT, RECESSED TY PARTIAL FROSTED GLAS COVER WITH LED BULB DAYLIGHT
	6" VERTICAL PINLIGHT GLOSS REFLECTOR E27 WITH LED BULB 11W, DAYLIGHT
	40W, 1.2m X 0.3m LED PANEL LIGHT, 3,000 LUMENS
	18W, 2m X 1.20m LED STRAIGHT FLUORESCENT TUBE,RECESSED LOUVER TYPE
Sx	1 GANG SURFACE TYPE SWITCH
Sxx	2 GANG SURFACE TYPE SWITCH
Sxxx	3 GANG SURFACE TYPE SWITCH
JB	JUNCTION BOX
UB	UTILITY BOX
PB	PULL BOX
	8" CEILING EXHAUST FAN
	CIRCUIT HOMERUN
	SWITCH HOMERUN
	PANEL BOARD
	PVC PIPE CONDUIT
	6WATTS WARM WHITE, LE STRIP LIGHT

2.0625

8'

4'

4'

Billboard (8' x 8' Tarpaulin Fully Furnished)

APEX LINE OF BILLBOARD

2" x 2" x 10' Coco Lumber
SUPPORT

2" x 3" x 10' Coco Lumber
STAKE

2" x 3" x 10' Coco Lumber
MAIN FRAME

8'

2" x 3" x 10' Coco Lumber
POST

1.0000

0.8000

NATURAL GRADE LINE

1.0000

2" x 2" x 10' Coco Lumber

2" x 3" x 10' Coco Lumber
MAIN FRAME

4'

2" x 3" x 10' Coco Lumber
POST

1.0000

1.0000

2" x 3" x 10' Coco Lumber
STAKE

2" x 3" x 10' Coco Lumber
STAKE

4'

2" x 2" x 10' Coco Lumber
SUPPORT

2" x 2" x 10' Coco Lumber
SUPPORT

2.0

Billboard (8' x 8' Tarpaulin Fully Furnished)

4'

4'

8'

A-5 1|3 **TYPICAL SIDE ELEVATION**
SCALE 1:25 M

A-5 2|3 **FRONT ELEVATION**
SCALE 1:25 M

A-5 3|3 **TOP VIEW**
SCALE 1:25 M

8 ft

Annex "A"

Name of Agency
Business Address

Project : _____ Cost : _____

Location : _____ Fund Source/s : _____

Implementing Agency / ies : _____

Development Patner / s : _____

Contractor / Supplier : _____

Brief Description of Project :

Project Details :

Project Date			Project Status				REMARKS
Duration	Started	Target Date of Completion	Percentage of Completion	As of (Date)	Cost Incurred to Date	Date Completed	

For particulars or complaints about this project, please contact the COA Provincial Office which has audit jurisdiction on this project.

Address : Provincial Capitol Compound, Alunan Avenue,
Koronadal City, South Cotabato

Contact Nos. (083) 228-2462 and (083) 228-2453

H:\FOI\Contract Nos. ES083-TF228-2462 and 083-228-2453\TARPAULIN BILLBOARD TEMPLATE (Formal 3x4) FINAL.png

"THIS IS WHERE YOUR PAID TAXES GO"

8 ft

8 ft