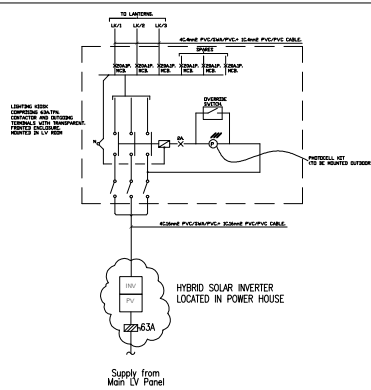


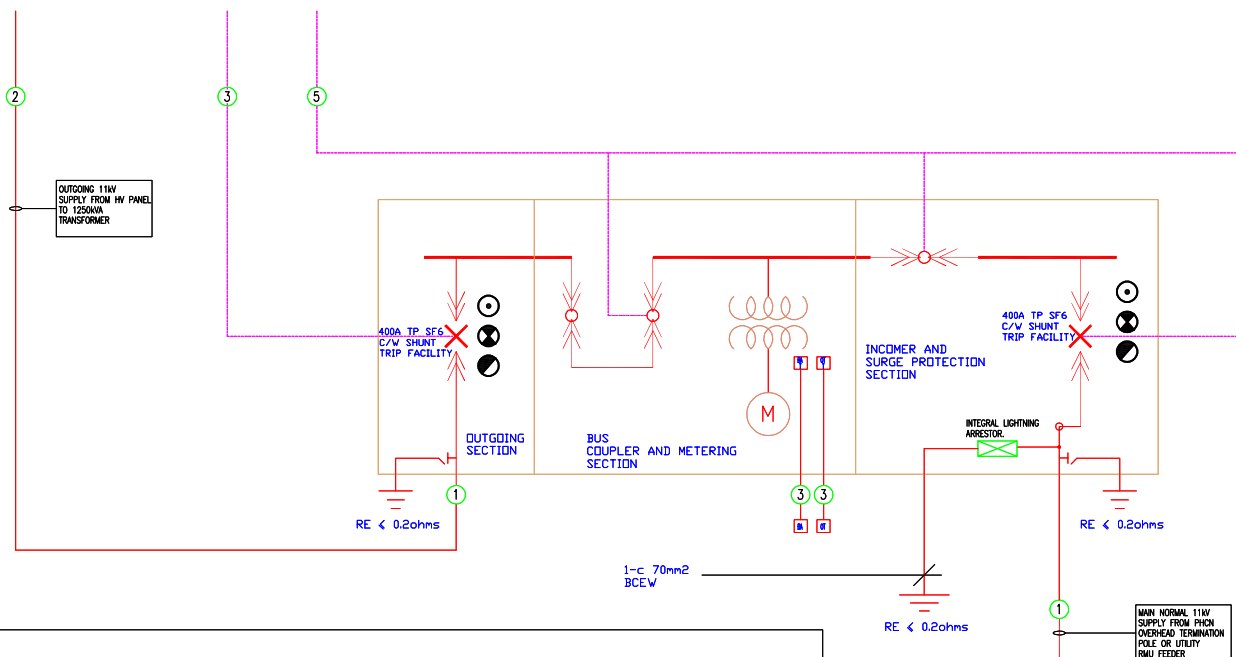
LOAD SUMMARY

LOAD TERMINAL	PHASE ROTATION	LOAD(KVA)			APPLIED DIVERSITY	LOAD(KVA)		
		R	Y	B		R	Y	B
SMB-A	RYB	640.5	637.5	639.2	0.7	448.2	446.4	447.5
SMB-B (OFF. INVERTER)	BRY	79.4	62.0	46.7	0.8	63.4	49.6	37.4
SMB-C (OFF. INVERTER)	YBR	55.5	54.4	41.3	0.8	44.4	43.4	33.0
SMB-D (TB LAB)	RYB	85.4	83.9	83.7	0.81	69.6	68.5	66.9
SMB-E (GEN LAB)	BRY	64.9	69.8	70.4	0.85	55.1	59.4	59.6
X-RAY RM INVERTER (XSD)	YBR	793.9	793.9	793.9	0.8	635.1	635.1	635.1
ODU VRV2 - TB LAB	RYB	7.2	7.2	7.2	1.0	7.2	7.2	7.2
ODU VRV3 - GEN LAB	BRY	9.1	9.1	9.1	1.0	9.1	9.1	9.1
AHU 1 (GENERAL LAB)	YBR	4.0	4.0	4.0	1.0	4.0	4.0	4.0
AHU 2 (TB LAB)	RYB	4.0	4.0	4.0	1.0	4.0	4.0	4.0
SMB-F (HVAC FSU PANEL)	BRY	108.8	108.8	108.8	0.7	76.1	76.1	76.1
DOT BUILDING	YBR	1.1	10.0	10.0	0.7	1.1	7.0	7.0
SPUTUM BUILDING	RYB	26.1	24.9	14.9	0.7	18.3	17.4	10.4
TOILET 1 BUILDING	BRY	10.0	10.0	11.0	0.7	7.0	7.0	7.7
TOILET 2 BUILDING	YBR	10.0	10.0	11.0	0.7	7.0	7.0	7.7
TOILET 3 BUILDING	RYB	10.0	10.0	11.0	0.7	7.0	7.0	7.7
EXTERNAL LIGHTING	BRY	7.8	5.4	5.2	1.0	7.8	5.4	5.2
GHLP-GATEHOUSE*	YBR	12.0	12.0	12.0	0.7	8.4	8.4	8.4
POWER HOUSE*	RYB	12.3	14.9	10.0	0.7	8.6	10.4	7.0
DIESEL PUMP	BRY	7.2	7.2	7.2	0.4	2.9	2.9	2.9
FIRE HOSE REEL	YBR	7.2	7.2	7.2	-	0.0	0.0	0.0
WATER PUMPS	RYB	7.2	7.2	7.2	0.6	4.3	4.3	4.3
BOREHOLE/WATER TREATMENT	BRY	16.0	16.0	16.0	0.4	6.4	6.4	6.4

TOTAL CONNECTED LOAD	1979.6	1969.4	1931					
MAX. DEMAND LOAD				1495.0	1486.0	1454.6		
PEAK MAX. DEMAND LOAD IN KW				828.6				
PEAK MAX. DEMAND LOAD IN KVA				1036				
NEW KVA BY PF IMPROVEMENT FROM 0.8 TO 0.92				900.7				
KVAR REQUIRED				266				
ALLOW FOR 20% SPARE CAPACITY IN KVA				1081				
RECOMMENDED GENERATOR CAPACITY IN KVA				1100				



LIGHTING KIOSK CONNECTION DETAILS



CABLE SCHEDULE

- 70mm2 3-CORE, 12kV XLPE, PVC ARMOURED, COPPER CABLE + 70mm2 PVC/PVC as CPC
- 4x1c 500mm2 PVC/PVC CABLE PER PHASE & NEUTRAL + 2x1c 500mm2 PVC/PVC CABLE AS CPC
- Control Cabling from the Bucholtz and Winding Temperature devices on Transformer to shunt trip of Outgoing HV Circuit Breaker on the HV Panel.
- Control Cabling from the Undervoltage/Phase Failure Relay device on the incoming Circuit Breaker of main LV Panel to set mounted Auto-Start Control Panel of Generators via the Generators' selector switch
- Control Cabling from Intertrip devices to shunt trip on Incoming Circuit Breaker on Main LV Panel and shunt trip of Incoming HV Circuit Breaker on the HV Panel.

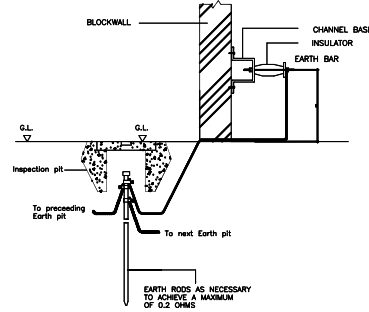
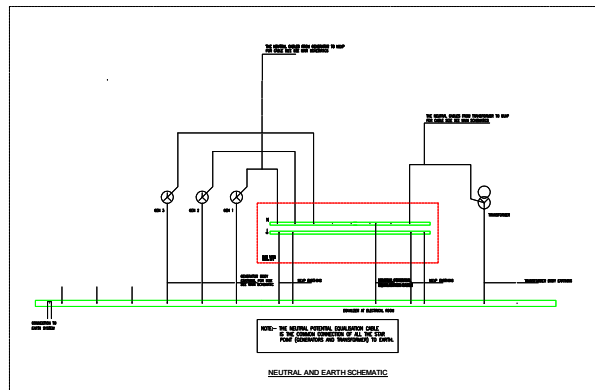
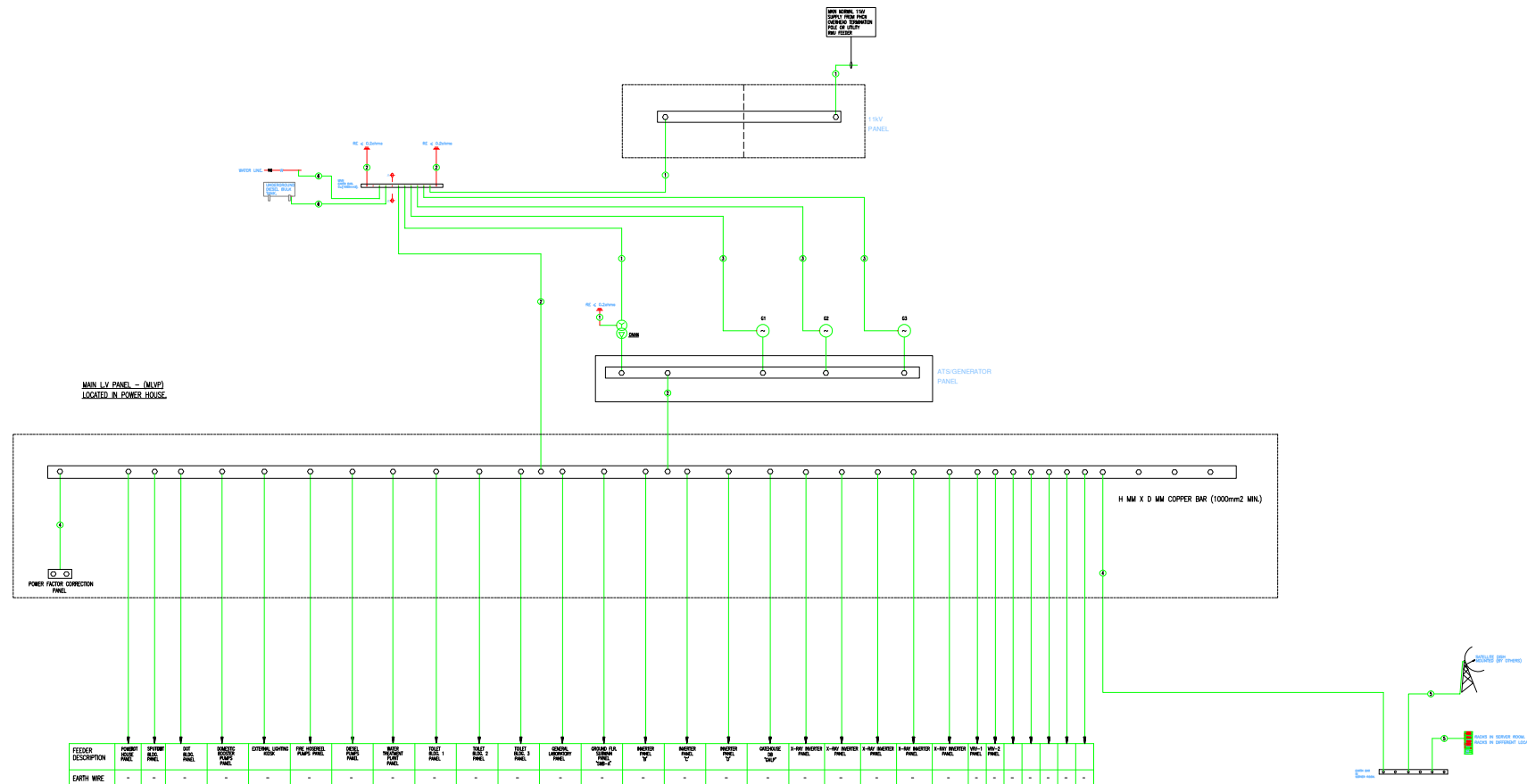
HWLEGEND.

30CT	3-POLE OVERCURRENT RELAY
EF	EARTH FAULT RELAY.
OT	OVER TEMPERATURE ALARM TRIP UNIT
OT	OVER TEMPERATURE DETECTION UNIT
	PROTECTION FUSE
	CURRENT TRANSFORMER
	TWIN WINDING VOLTAGE TRANSFORMER CLASS1.0, 33000/11000V STAR/STAR. VA RATING TO SUIT INSTRUMENTATION RELAY BURDENS.
	CIRCUIT BREAKER OPEN INDICATOR
	CIRCUIT BREAKER CLOSED INDICATOR
	CIRCUIT BREAKER 'TRIP' INDICATOR
BA	BUCHOLTZ ALARM TRIP UNIT
BA	BUCHOLTZ ALARM UNIT

HV. PANEL SCHEDULE.

BREAKERS:

- SF6 OR SIMILAR.
- POWER ASSISTED CLOSING.
- SHUNT TRIP.

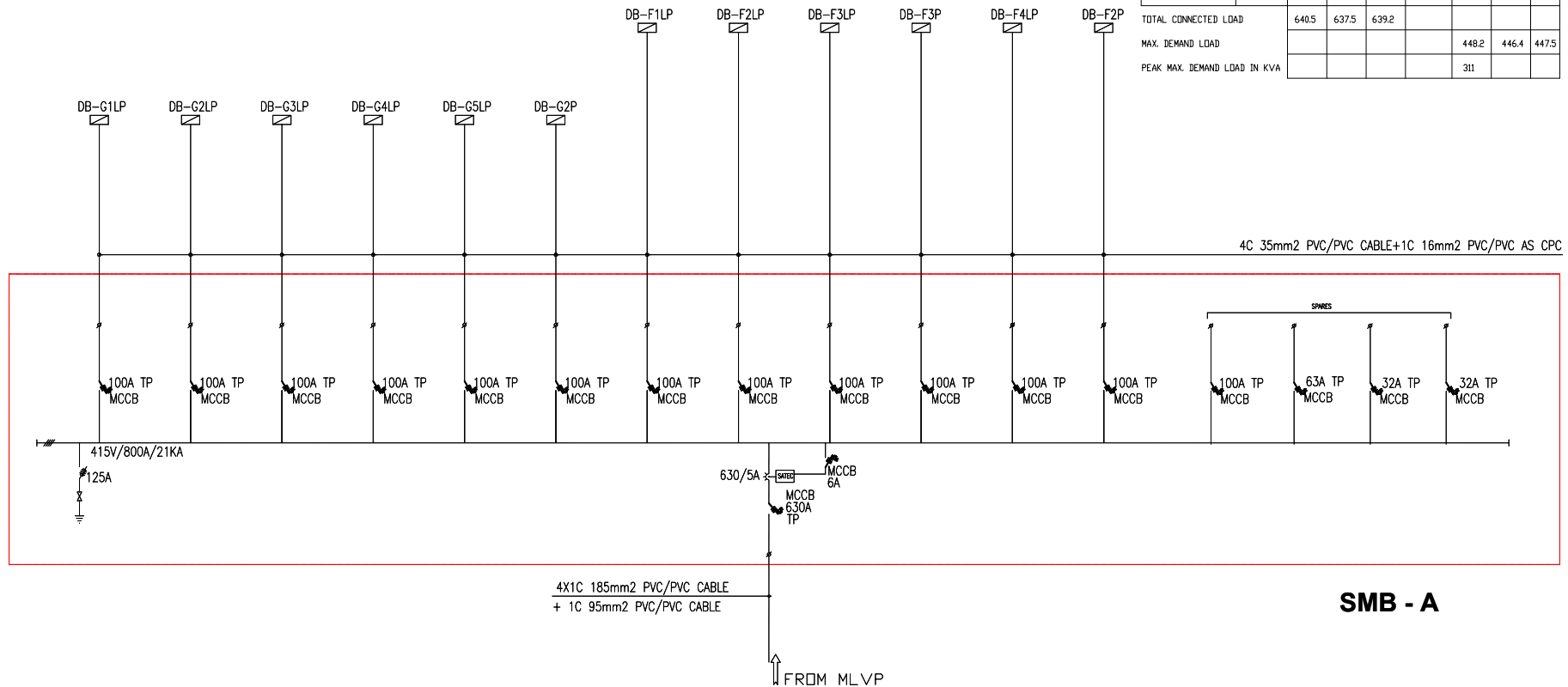


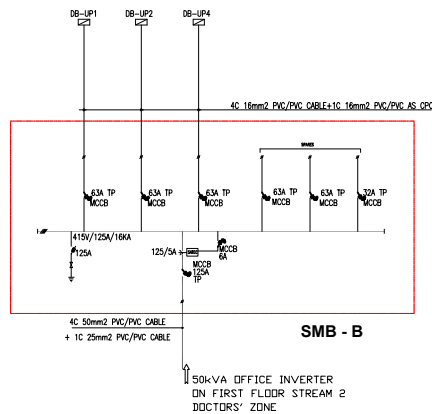
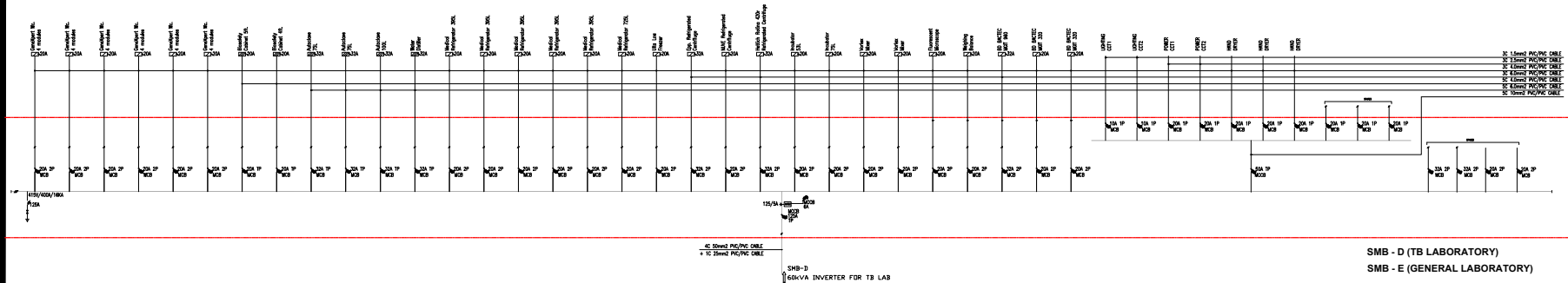
CPC CABLE SCHEDULE

- ① 1c 70mm² PVC/PVC CABLE
- ② 2x1c 500mm² PVC/PVC CABLE
- ③ 1c 240mm² PVC/PVC CABLE
- ④ 1c 10mm² PVC/PVC CABLE
- ⑤ 1c 6mm² PVC/PVC CABLE

LOAD SUMMARY

LOAD TERMINAL	PHASE ROTATION	LOAD(A)			APPLIED DIVERSITY	LOAD(A)		
		R	Y	B		R	Y	B
G1LP	RYB	60.6	51.4	54.9	0.7	42.4	36.0	38.4
G2LP	BRY	56.7	73.8	58.8	0.7	39.7	51.7	41.2
G3LP	YBR	42.3	46.8	21.8	0.7	29.6	32.8	15.2
G4LP	RYB	47.8	43.0	54.1	0.7	33.4	30.1	37.9
G5LP	BRY	52.9	63.7	60.6	0.7	37.0	44.6	42.4
G2P	YBR	70.0	60.0	70.0	0.7	49.0	42.0	49.0
F1LP	RYB	74.9	71.8	69.0	0.7	52.4	50.3	48.3
F2LP	BRY	30.2	26.4	30.0	0.7	21.1	18.5	21.0
F3P	YBR	60.0	50.0	60.0	0.7	42.0	35.0	42.0
F3LP	RYB	36.1	35.7	36.5	0.7	25.3	25.0	25.6
F4LP	BRY	39.0	44.9	43.5	0.7	27.3	31.4	30.5
F2P	YBR	70.0	70.0	80.0	0.7	49.0	49.0	56.0
TOTAL CONNECTED LOAD		640.5	637.5	639.2				
MAX. DEMAND LOAD						448.2	446.4	447.5
PEAK MAX. DEMAND LOAD IN KVA						311		



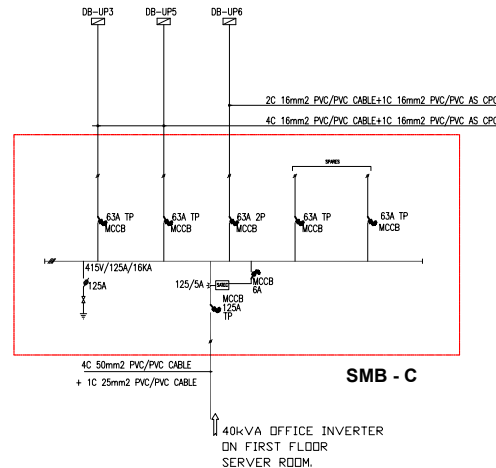


LOAD SUMMARY					APPL.		
LOAD TERMINAL	LOAD(A)			DF	LOAD(A)		
	R.	Y.	B.				
DB-UP1	17.4	17.4	8.7	0.8	13.9	13.9	7.0
DB-UP2	37.0	25.0	23.9	0.8	29.5	20.0	19.1
DB-UP4	25.0	19.6	14.1	0.8	20.0	15.7	11.3
TOTAL CONNECTED LOAD(A)	79.4	62.0	46.7				
MAX. DEMAND(A)					63.4	49.6	37.4
PEAK DEMAND LOAD (kVA)					43.9		

SMB - B

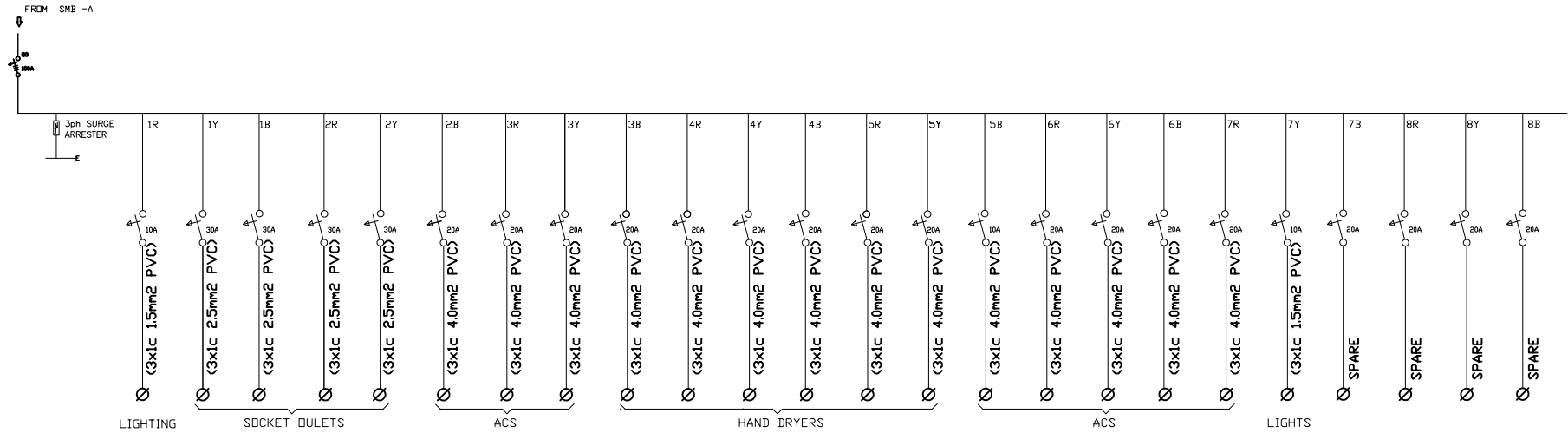
LOAD SUMMARY					APPL.		
LOAD TERMINAL	LOAD(A)			DF	LOAD(A)		
	R.	Y.	B.				
GeneXpert Mc. 4 modules x 6no.	2.8	2.8	2.8	0.8	2.2	2.2	2.2
Biosafety Cabinet 5ft	4.9	4.9	4.9	0.8	3.9	3.9	3.9
Biosafety Cabinet 4ft	3.5	3.5	3.5	0.8	2.8	2.8	2.8
Autoclave 75L x 2no.	10.8	10.8	10.8	0.8	8.6	8.6	8.6
Autoclave 100L	8.1	8.1	8.1	0.8	6.5	6.5	6.5
Water Distiller	13.5	13.5	13.5	0.8	10.8	10.8	10.8
Medical Refrigerator 395L x 5no.	3.6	3.6	1.8	1.0	3.6	3.6	1.8
Medical Refrigerator 725L	-	-	3.9	1.0	-	-	3.9
Ultra Low Freezer	4.7	-	-	1.0	4.7	-	-
Epp. Refrigerated Centrifuge	-	9.0	-	1.0	-	9.0	-
NUVE Refrigerated Centrifuge	-	-	4.3	1.0	-	-	4.3
Hettich Rottina Refrigerated Centrifuge	8.0	-	-	1.0	8.0	-	-
Incubator 53L	-	5.4	-	1.0	-	5.4	-
Incubator 75L	-	-	6.8	1.0	-	-	6.8
Vortex Mixer x 2no.	-	2.0	-	0.8	-	-	1.6
Fluorescent Microscope	-	0.2	-	0.8	-	0.2	-
Weighing Balance	-	1.0	-	0.8	-	0.8	-
BD BACTEC NGIT 960	-	-	10.0	0.8	-	-	8.0
BD BACTEC NGIT 320 x 2no.	5.0	5.0	-	0.8	4.0	4.0	-
TOTAL CONNECTED LOAD(A)	64.9	69.8	70.4		55.1	59.4	59.6
LIGHTING CCT1	7.2	-	-	1.0	7.2	-	-
LIGHTING CCT2	-	4.1	-	1.0	-	4.1	-
POWER CCT1	-	-	3.3	0.7	-	-	2.3
POWER CCT2	-	-	-	0.7	2.3	-	-
HAND DRYER x 3no.	10.0	10.0	10.0	0.5	5.0	5.0	5.0
TOTAL CONNECTED LOAD(A)	85.4	83.9	83.7				
MAX. DEMAND (A)					69.6	68.5	66.9
PEAK DEMAND LOAD (kVA)					48.0		

LOADS ARE ONLY PRESENT IN TB LABORATORY

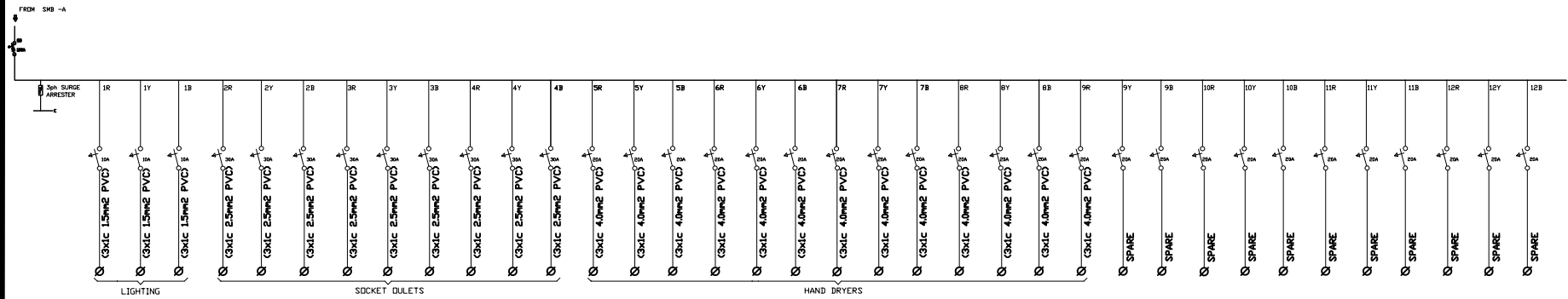


LOAD SUMMARY					APPL.		
LOAD TERMINAL	LOAD(A)			DF	LOAD(A)		
	R.	Y.	B.				
DB-UP3	35.9	37.0	23.9	0.8	28.7	29.5	19.1
DB-UP5	19.6	17.4	17.4	0.8	15.7	13.9	13.9
DB-UP6	-	-	8.7	0.8	-	-	7.0
TOTAL CONNECTED LOAD(A)	55.5	54.4	50.0				
MAX. DEMAND(A)					44.4	43.4	40.0
PEAK DEMAND LOAD (kVA)					31.0		

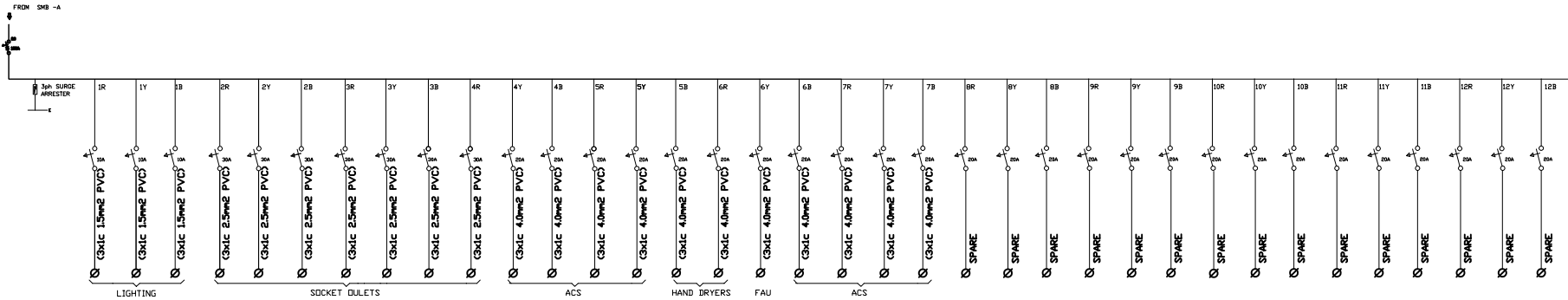
SMB - C



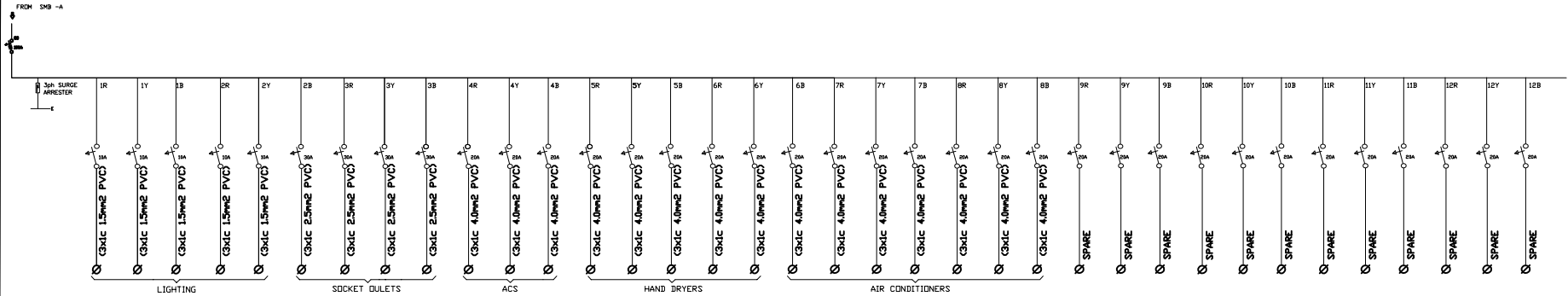
PANEL		LOCATION				VOLTAGE			FLUSH			MCB			BUS SIZE		
G1P		GROUND FLOOR, STREAM 2 DOCTORS' ZONE				230/415V			SURFACE			100A MAIN ISOL 100A			30 A 60 A 100 A 400 A		
		300/4WIRE															
CIRCUIT	ITEM/LOAD	M C B R A T I N G	P O L E	C A B L E S I Z E mm ²	PHASE			PHASE			C P C S I Z E mm ²	C A B L E S I Z E mm ²	P O L E	M C B R A T I N G	ITEM/LOAD	CIRCUIT	
					R	Y	B	R	Y	B							
1R	L	10A	1	1.5	1.5	1346	-	-	600	-	-	2.5	2.5	1	30A	S	2
1Y	S	30A	1	2.5	2.5	-	900	-	-	900	-	2.5	2.5	1	30A	S	2
1B	S	30A	1	2.5	2.5	-	-	900	-	-	1840	4.0	4.0	1	20A	AC	2
3R	AC	20A	1	4.0	4.0	1840	-	-	1840	-	-	4.0	4.0	1	20A	HD	4
3Y	AC	20A	1	4.0	4.0	-	1840	-	-	1840	-	4.0	4.0	1	20A	HD	4
3B	HD	20A	1	4.0	4.0	-	-	1840	-	-	1840	4.0	4.0	1	20A	HD	4
5R	HD	20A	1	4.0	4.0	1840	-	-	1840	-	-	4.0	4.0	1	20A	AC	6
5Y	HD	20A	1	4.0	4.0	-	1840	-	-	1840	-	4.0	4.0	1	20A	AC	6
5B	AC	10A	1	4.0	4.0	-	-	1840	-	-	1840	4.0	4.0	1	20A	AC	6
7R	AC	20A	1	4.0	4.0	1840	-	-	-	-	-	-	-	1	20A	SPARES	8
7Y	L	20A	1	1.5	1.5	-	298	-	-	-	-	-	-	1	20A		8
7B	SPARE	20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		8
						PHASE R		PHASE Y		PHASE B		PEAK LOAD			PEAK AMPS		
						11146		9459		10100		11146					
TOTAL CONNECTED LOAD (WATTS)						11146		9459		10100		11146					
TOTAL CONNECTED LOAD (VA)						13933		11824		12625		13933			80.6		
AT 0.7 DIVERSITY FACTOR						9753		8277		8836		9753			42.4		
LEGEND						REMARKS											
L : LIGHTING CIRCUITS S :13A SWITCHED SOCKET OUTLET RING CIRCUITS AC :AIR CONDITIONER UNIT. HD :HAND DRYER						CABLE SIZE : 4c - 35mmsq PVC/PVC COPPER CABLE. 1c - 16mmsq PVC/PVC AS CPC. BOARD SIZE : 100A 8-WAY TPN MCB DISTRIBUTION BOARD WITH 100A TPN INTEGRAL ISOLATOR											



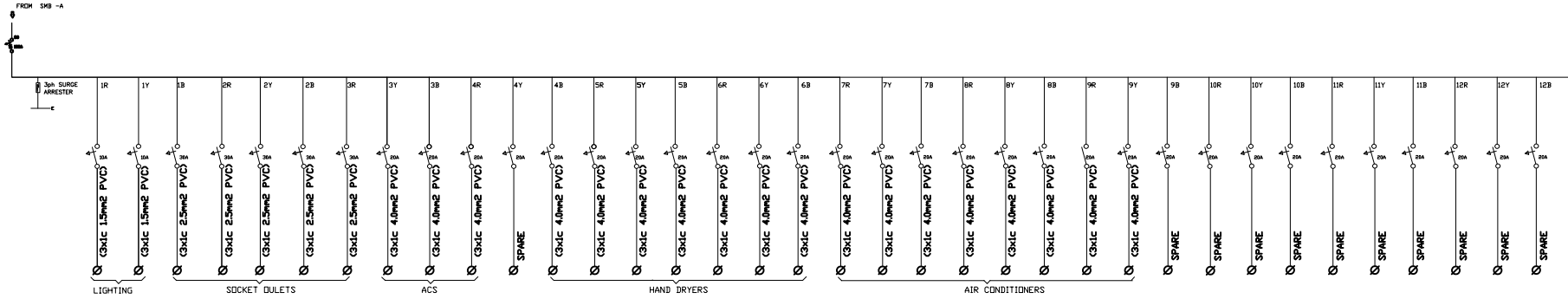
PANEL		LOCATION				VOLTAGE		FLUSH <u>✓</u>		MCB		BUS SIZE					
Q2P		GROUND FLOOR, STREAM 1 DOCTORS' ZONE				230/415V 3W/4WRE		SURFACE <u>X</u>		100A MAIN ISOL 100A		30 A <u>✓</u> 60 A <u>✓</u> 100 A <u>✓</u> 400 A <u>X</u>					
C I R C U I T	ITEM/LOAD	M C B R A T I N G	P O L E	C P C S I Z E mm ² /mm ²	PHASE			PHASE			C P C S I Z E mm ² /mm ²	P O L E	M C B R A T I N G	ITEM/LOAD	C I R C U I T		
					R	Y	B	R	Y	B							
1R	L	10A	1	1.5	1.5	960	—	—	900	—	—	2.5	2.5	1	30A	S	2R
1Y	L	10A	1	1.5	1.5	—	760	—	—	1050	—	2.5	2.5	1	30A	S	2Y
1B	L	10A	1	1.5	1.5	—	—	815	—	—	900	2.5	2.5	1	30A	S	2B
3R	S	30A	1	2.5	2.5	900	—	—	900	—	—	2.5	2.5	1	30A	S	4R
3Y	S	30A	1	2.5	2.5	—	900	—	—	750	—	2.5	2.5	1	30A	S	4Y
3B	S	30A	1	2.5	2.5	—	—	900	—	—	450	2.5	2.5	1	30A	S	4B
5R	HD	20A	1	4.0	4.0	1840	—	—	1840	—	—	4.0	4.0	1	20A	HD	6R
5Y	HD	20A	1	4.0	4.0	—	1840	—	—	1840	—	4.0	4.0	1	20A	HD	6Y
5B	HD	20A	1	4.0	4.0	—	—	1840	—	—	1840	4.0	4.0	1	20A	HD	6B
7R	HD	20A	1	4.0	4.0	1840	—	—	1840	—	—	4.0	4.0	1	20A	HD	8R
7Y	HD	20A	1	4.0	4.0	—	1840	—	—	1840	—	4.0	4.0	1	20A	HD	8Y
7B	HD	20A	1	4.0	4.0	—	—	1840	—	1840	4.0	4.0	1	20A	HD	8B	
9R	HD	20A	1	4.0	4.0	1840	—	—	—	—	—	—	—	1	20A		10R
9Y		20A	1	—	—	—	—	—	—	—	—	—	—	1	20A		10Y
9B		20A	1	—	—	—	—	—	—	—	—	—	—	1	20A		10B
11R	SPARES	20A	1	—	—	—	—	—	—	—	—	—	—	1	20A	SPARES	12R
11Y		20A	1	—	—	—	—	—	—	—	—	—	—	1	20A		12Y
11B		20A	1	—	—	—	—	—	—	—	—	—	—	1	20A		12B
		20A	1	—	—	—	—	—	—	—	—	—	—	1	20A		
					PHASE R		PHASE Y		PHASE B		PEAK LOAD		PDK AMPS				
TOTAL CONNECTED LOAD (WATTS)					12860		10820		10425		12860						
TOTAL CONNECTED LOAD (VA)					16975		13525		13031		16975		73.8				
AT 0.7 DIVERSITY FACTOR					11253		9468		9122		11253		51.7				
LEGEND																	
REMARKS																	
L : LIGHTING CIRCUITS S :13A SWITCHED SOCKET OUTLET RING CIRCUITS AC :AIR CONDITIONER UNIT. HD :HAND DRYER.									CABLE SIZE : 4c - 35mm ² PVC/PVC COPPER CABLE. 1c - 16mm ² PVC/PVC/AS CPC. BOARD SIZE : 100A 12-WAY TPN MCB DISTRIBUTION BOARD WITH 100A TYPICAL INTEGRAL ISOLATOR								



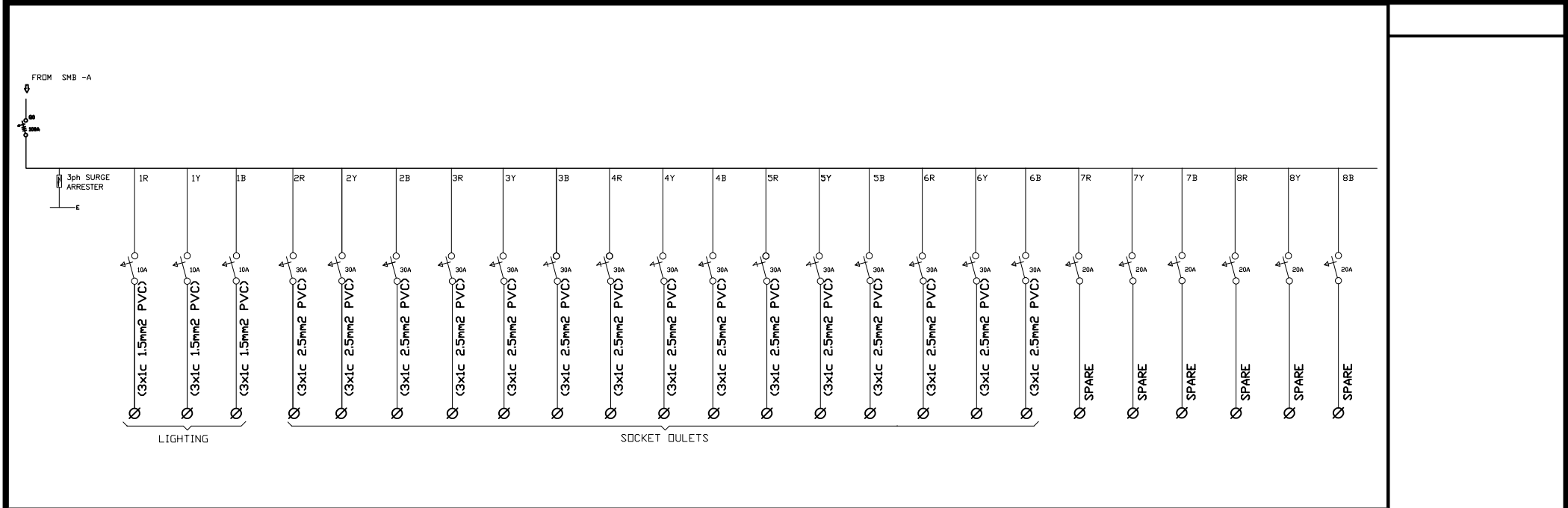
PANEL		LOCATION				VOLTAGE		FLUSH		MCCB		BUS SIZE					
G4P		GROUND FLOOR, STREAM 2 DATA REG. ZONE				230/415V 3Ø/4WIRE		✓ X		100A MAIN ISOL 100A		30 A X 60 A X 100 A ✓ 400 A X					
CIRCUIT	ITEM/LOAD	MCB RATING	POLE	CABLE SIZE mm2	CPC SIZE mm2	PHASE			PHASE			CPC SIZE mm2	CABLE SIZE mm2	POLE	MCB RATING	ITEM/LOAD	CIRCUIT
						R	Y	B	R	Y	B						
1R	L	10A	1	1.5	1.5	720	-	-	900	-	-	2.5	2.5	1	30A	S	2R
1Y	L	10A	1	1.5	1.5	-	746	-	-	900	-	2.5	2.5	1	30A	S	2Y
1B	L	10A	1	1.5	1.5	-	-	1110	-	-	750	2.5	2.5	1	30A	S	2B
3R	S	30A	1	2.5	2.5	750	-	-	900	-	-	2.5	2.5	1	30A	S	4R
3Y	S	30A	1	2.5	2.5	-	750	-	-	1840	-	4.0	4.0	1	20A	AC	4Y
3B	S	30A	1	2.5	2.5	-	-	750	-	-	1840	4.0	4.0	1	20A	AC	4B
5R	AC	20A	1	4.0	4.0	1840	-	-	1840	-	-	4.0	4.0	1	20A	HD	6R
5Y	AC	20A	1	4.0	4.0	-	1840	-	-	-	-	-	-	1	20A	SPARE	6Y
5B	HD	20A	1	4.0	4.0	-	-	1840	-	-	1840	4.0	4.0	1	20A	AC	6B
7R	AC	20A	1	4.0	4.0	1840	-	-	-	-	-	-	-	1	20A	SPARES	8R
7Y	AC	20A	1	4.0	4.0	-	1840	-	-	-	-	-	-	1	20A		8Y
7B	AC	20A	1	4.0	4.0	-	-	1840	-	-	-	-	-	1	20A		8B
9R	SPARES	20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		10R
9Y		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		10Y
9B		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		10B
11R		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		12R
11Y	20A	1	-	-	-	-	-	-	-	-	-	-	-	1	20A	12Y	
11B	20A	1	-	-	-	-	-	-	-	-	-	-	-	1	20A	12B	
TOTAL CONNECTED LOAD (WATTS)						8790	7916		9970		9970		PEAK AMPS				
TOTAL CONNECTED LOAD (VA)						10988	9895		12463		12463		54.1				
AT 0.7 DIVERSITY FACTOR						7691	6927		8724		8724		37.9				
LEGEND						REMARKS											
L : LIGHTING CIRCUITS S :13A SWITCHED SOCKET OUTLET RING CIRCUITS AC :AIR CONDITIONER UNIT. HD :HAND DRYER						CABLE SIZE : 4c - 35mmsq PVC/PVC COPPER CABLE. 1c - 16mmsq PVC/PVC AS CPC. BOARD SIZE : 100A 12-WAY TPN MCB DISTRIBUTION BOARD WITH 100A TPN INTEGRAL ISOLATOR											



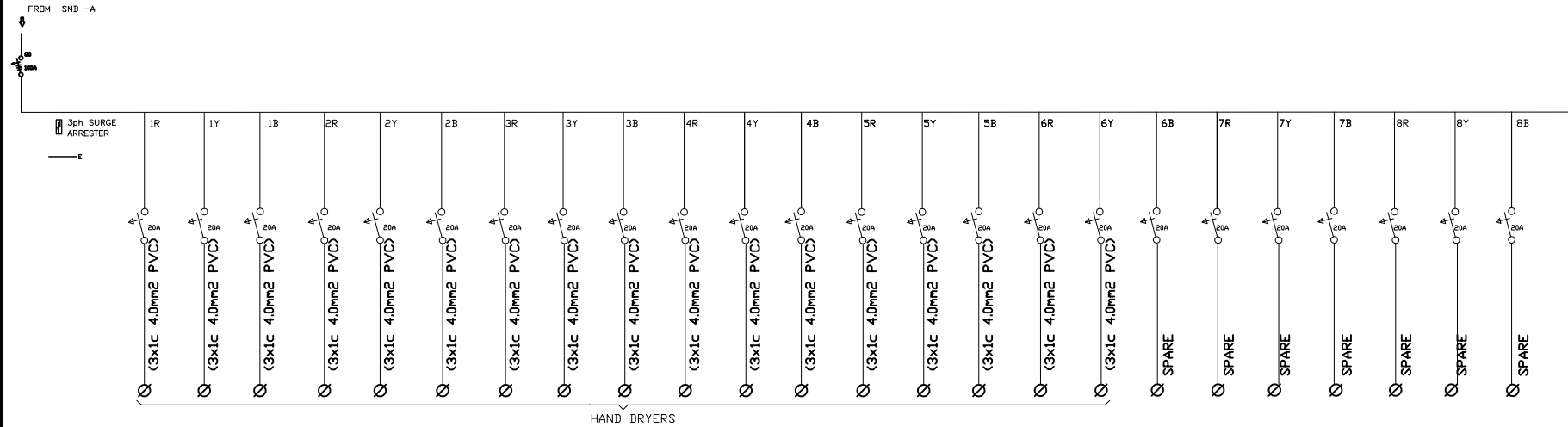
PANEL		LOCATION				VOLTAGE			FLUSH <input checked="" type="checkbox"/>			MCCB			BUS SIZE		
GSLP		GROUND FLOOR, STREAM 2 PHLEBOTOMY ZONE				230/415V			SURFACE <input checked="" type="checkbox"/>			100A MAIN ISOL 100A			30 A <input checked="" type="checkbox"/> 60 A <input checked="" type="checkbox"/> 100 A <input checked="" type="checkbox"/> 400 A <input checked="" type="checkbox"/>		
CIRCUIT	ITEM/LOAD	MCB RATING	POLE	CABLE SIZE	PHASE			PHASE			CABLE SIZE	POLE	MCB RATING	ITEM/LOAD	CIRCUIT		
					R	Y	B	R	Y	B							
1R	L	10A	1	1.5	1.5	550	-	-	1215	-	-	1.5	1.5	1	10A	L	2R
1Y	L	10A	1	1.5	1.5	-	1091	-	-	255	-	1.5	1.5	1	10A	L	2Y
1B	L	10A	1	1.5	1.5	-	-	720	-	-	900	2.5	2.5	1	30A	S	2B
3R	S	30A	1	2.5	2.5	750	-	-	1840	-	-	4.0	4.0	1	20A	AC	4R
3Y	S	30A	1	2.5	2.5	-	600	-	-	1840	-	4.0	4.0	1	20A	AC	4Y
3B	S	30A	1	2.5	2.5	-	-	750	-	-	-	4.0	4.0	1	20A	SPARE	4B
5R	HD	20A	1	4.0	4.0	1840	-	-	1840	-	-	4.0	4.0	1	20A	HD	6R
5Y	HD	20A	1	4.0	4.0	-	1840	-	-	1840	-	4.0	4.0	1	20A	HD	6Y
5B	HD	20A	1	4.0	4.0	-	-	1840	-	-	1840	4.0	4.0	1	20A	AC	6B
7R	AC	20A	1	4.0	4.0	1840	-	-	1840	-	-	4.0	4.0	1	20A	AC	8R
7Y	AC	20A	1	4.0	4.0	-	1840	-	-	1840	-	4.0	4.0	1	20A	AC	8Y
7B	AC	20A	1	4.0	4.0	-	-	1840	-	-	1840	4.0	4.0	1	20A	AC	8B
9R	SPARES	20A	1	-	-	-	-	-	-	-	-	-	-	1	20A	SPARES	10R
9Y		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		10Y
9B		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		10B
11R		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		12R
11Y		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		12Y
11B		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		12B
						PHASE R		PHASE Y		PHASE B		PEAK LOAD			PEAK AMPS		
	TOTAL CONNECTED LOAD (WATTS)					11715		11146		9730		11715					
	TOTAL CONNECTED LOAD (VA)					14644		13933		12163		14644			63.7		
	AT 0.7 DIVERSITY FACTOR					10251		9753		8514		10251			44.6		
	LEGEND										REMARKS						
L : LIGHTING CIRCUITS S :13A SWITCHED SOCKET OUTLET RING CIRCUITS AC :AIR CONDITIONER UNIT. HD :HAND DRYER										CABLE SIZE : 4c – 35mmsq PVC/PVC COPPER CABLE. 1c – 16mmsq PVC/PVC AS CPC. BOARD SIZE : 100A 12–WAY TPN MCB DISTRIBUTION BOARD WITH 100A TPN INTEGRAL ISOLATOR							



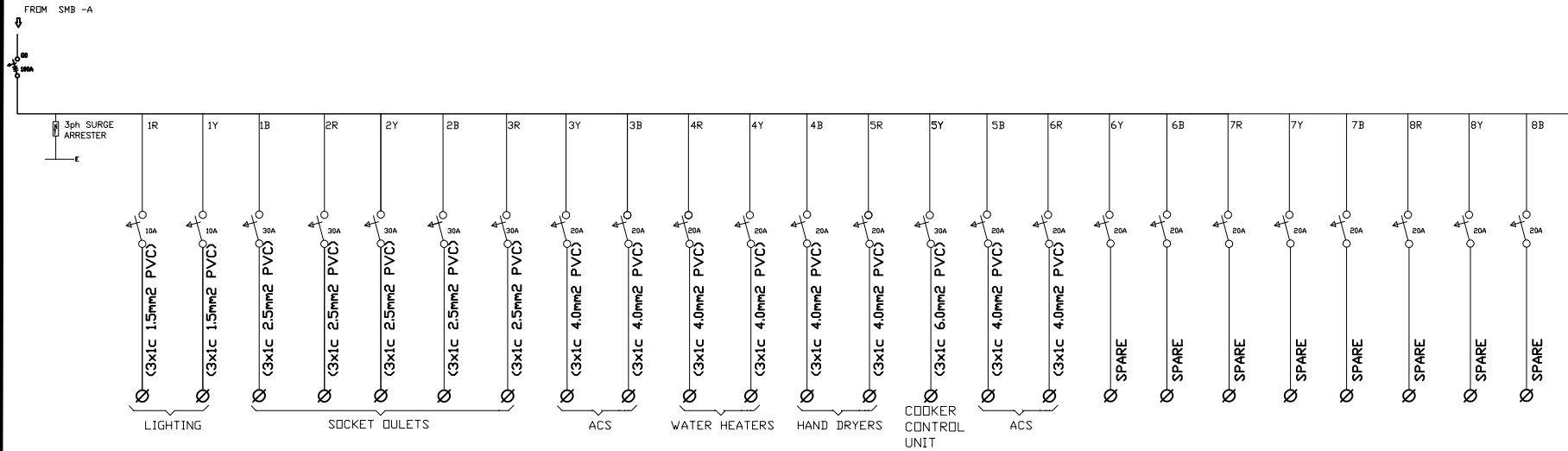
PANEL FILP		LOCATION FIRST FLOOR, STREAM 2 NURSES' ZONE				VOLTAGE 230/415V 3Ø/4WIRE			FLUSH <input checked="" type="checkbox"/> SURFACE <input checked="" type="checkbox"/>			MCB 100A MAIN ISOL 100A			BUS SIZE 30 A <input checked="" type="checkbox"/> 60 A <input checked="" type="checkbox"/> 100 A <input checked="" type="checkbox"/> 400 A <input checked="" type="checkbox"/>																				
CIRCUIT	ITEM/LOAD	MCB RATING	P OL E	C A B L E S I Z E mm2	C P C S I Z E mm2	PHASE			PHASE			C P C S I Z E mm2	C A B L E S I Z E mm2	P OL E	MCB RATING	ITEM/LOAD	CIRCUIT																		
						R	Y	B	R	Y	B																								
1R	L	10A	1	1.5	1.5	940	—	—	900	—	—	2.5	2.5	1	30A	S	2R																		
1Y	L	10A	1	1.5	1.5	—	1280	—	—	900	—	2.5	2.5	1	30A	S	2Y																		
1B	S	30A	1	2.5	2.5	—	—	750	—	—	900	2.5	2.5	1	30A	S	2B																		
3R	S	30A	1	2.5	2.5	900	—	—	1840	—	—	4.0	4.0	1	20A	AC	4R																		
3Y	AC	20A	1	4.0	4.0	—	1840	—	—	—	—	—	—	1	20A	SPARE	4Y																		
3B	AC	20A	1	4.0	4.0	—	—	1840	—	—	1840	4.0	4.0	1	20A	HD	4B																		
5R	HD	20A	1	4.0	4.0	1840	—	—	1840	—	—	4.0	4.0	1	20A	HD	6R																		
5Y	HD	20A	1	4.0	4.0	—	1840	—	—	1840	—	4.0	4.0	1	20A	HD	6Y																		
5B	HD	20A	1	4.0	4.0	—	—	1840	—	—	1840	4.0	4.0	1	20A	HD	6B																		
7R	AC	20A	1	4.0	4.0	1840	—	—	1840	—	—	4.0	4.0	1	20A	AC	8R																		
7Y	AC	20A	1	4.0	4.0	—	1840	—	—	1840	—	4.0	4.0	1	20A	AC	8Y																		
7B	AC	20A	1	4.0	4.0	—	—	1840	—	—	1840	4.0	4.0	1	20A	AC	8B																		
9R	AC	20A	1	4.0	4.0	1840	—	—	—	—	—	—	—	1	20A	SPARES	10R																		
9Y	AC	20A	1	4.0	4.0	—	1840	—	—	—	—	—	—	1	20A		10Y																		
9B	SPARES	20A	1			—	—	—	—	—	—	—	—	1	20A		10B																		
11R		20A	1			—	—	—	—	—	—	—	—	1	20A		12R																		
11Y		20A	1			—	—	—	—	—	—	—	—	1	20A		12Y																		
11B		20A	1			—	—	—	—	—	—	—	—	1	20A	12B																			
TOTAL CONNECTED LOAD (WATTS)						13780	13220		12690		13780		PEAK AMPS																						
TOTAL CONNECTED LOAD (VA)						17225	16525		15863		17225		74.9																						
AT 0.7 DIVERSITY FACTOR						12058	11568		11104		12058		52.4																						
LEGEND										REMARKS																									
L : LIGHTING CIRCUITS S :13A SWITCHED SOCKET OUTLET RING CIRCUITS AC :AIR CONDITIONER UNIT. HD :HAND DRYER																		CABLE SIZE : 4c – 35mmsq PVC/PVC COPPER CABLE. 1c – 16mmsq PVC/PVC AS CPC. BOARD SIZE : 100A 12–WAY TPN MCB DISTRIBUTION BOARD WITH 100A TPN INTEGRAL ISOLATOR																	



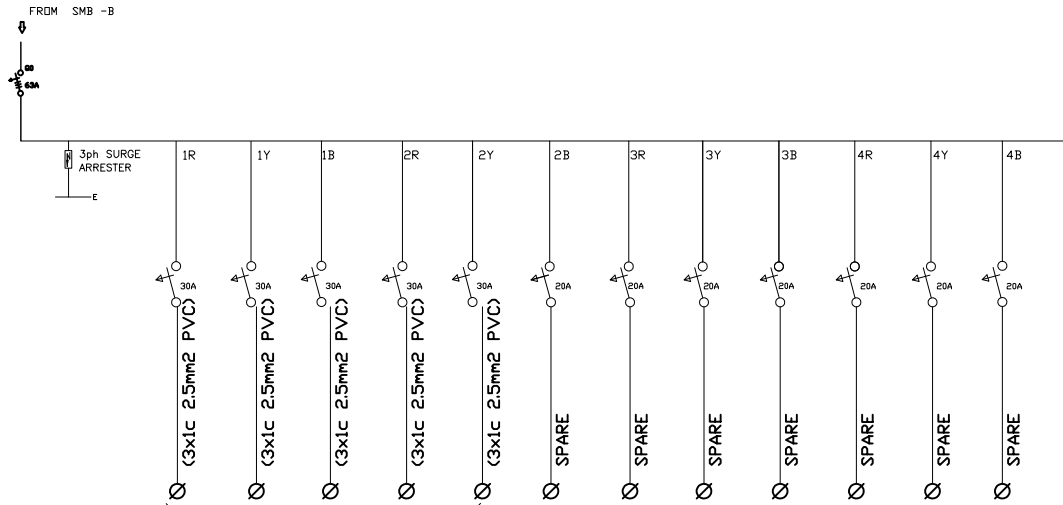
PANEL FLP		LOCATION FIRST FLOOR, STREAM 2 DOCTORS' ZONE				VOLTAGE 230/415V 3Ø/4WIRE				FLUSH <input checked="" type="checkbox"/> SURFACE <input checked="" type="checkbox"/>		MCDB 100A MAIN ISOL 100A		BUS SIZE 30 A <input checked="" type="checkbox"/> 60 A <input checked="" type="checkbox"/> 100 A <input checked="" type="checkbox"/> 400 A <input checked="" type="checkbox"/>					
CIRCUIT	ITEM/LOAD	MCB RATING	POLE	CABLE SIZE mm ²	CPC SIZE mm ²	PHASE			PHASE			CPC SIZE mm ²	CABLE SIZE mm ²	POLE	MCB RATING	ITEM/LOAD	CIRCUIT		
						R	Y	B	R	Y	B								
1R	L	10A	1	1.5	1.5	900	-	-	900	-	-	2.5	2.5	1	30A	S	2R		
1Y	L	10A	1	1.5	1.5	-	1315	-	-	900	-	-	2.5	2.5	1	30A	S	2Y	
1B	L	10A	1	1.5	1.5	-	-	1352	-	-	900	-	-	2.5	2.5	1	30A	S	2B
3R	S	30A	1	2.5	2.5	900	-	-	900	-	-	2.5	2.5	1	30A	S	4R		
3Y	S	30A	1	2.5	2.5	-	900	-	-	900	-	-	2.5	2.5	1	30A	S	4Y	
3B	S	30A	1	2.5	2.5	-	-	900	-	-	750	-	-	2.5	2.5	1	30A	S	4B
5R	S	30A	1	2.5	2.5	600	-	-	600	-	-	2.5	2.5	1	30A	S	6R		
5Y	S	30A	1	2.5	2.5	-	900	-	-	600	-	-	2.5	2.5	1	30A	S	6Y	
5B	S	30A	1	2.5	2.5	-	-	750	-	-	900	-	-	2.5	2.5	1	30A	S	6B
7R	SPARES	20A	1	-	-	-	-	-	-	-	-	-	-	1	20A	SPARES	8R		
7Y		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		8Y		
7B		20A	1	-	-	-	-	-	-	-	-	-	-	-	1		20A	8B	
						PHASE R		PHASE Y		PHASE B		PEAK LOAD			PEAK AMPS				
TOTAL CONNECTED LOAD (WATTS)						4860		5515		5552		5552							
TOTAL CONNECTED LOAD (VA)						6075		6894		6940		6940			30.2				
AT 0.7 DIVERSITY FACTOR						4253		4826		4858		4858			21.1				
LEGEND										REMARKS									
L : LIGHTING CIRCUIT S :13A SWITCHED SOCKET OUTLET RING CIRCUITS AC :AIR CONDITIONER UNIT. HD :HAND DRYER										CABLE SIZE : 4c - 35mmsq PVC/PVC COPPER CABLE. 1c - 16mmsq PVC/PVC AS CPC. BOARD SIZE : 100A 8-WAY TPN MCB DISTRIBUTION BOARD WITH 100A TPN INTEGRAL ISOLATOR									



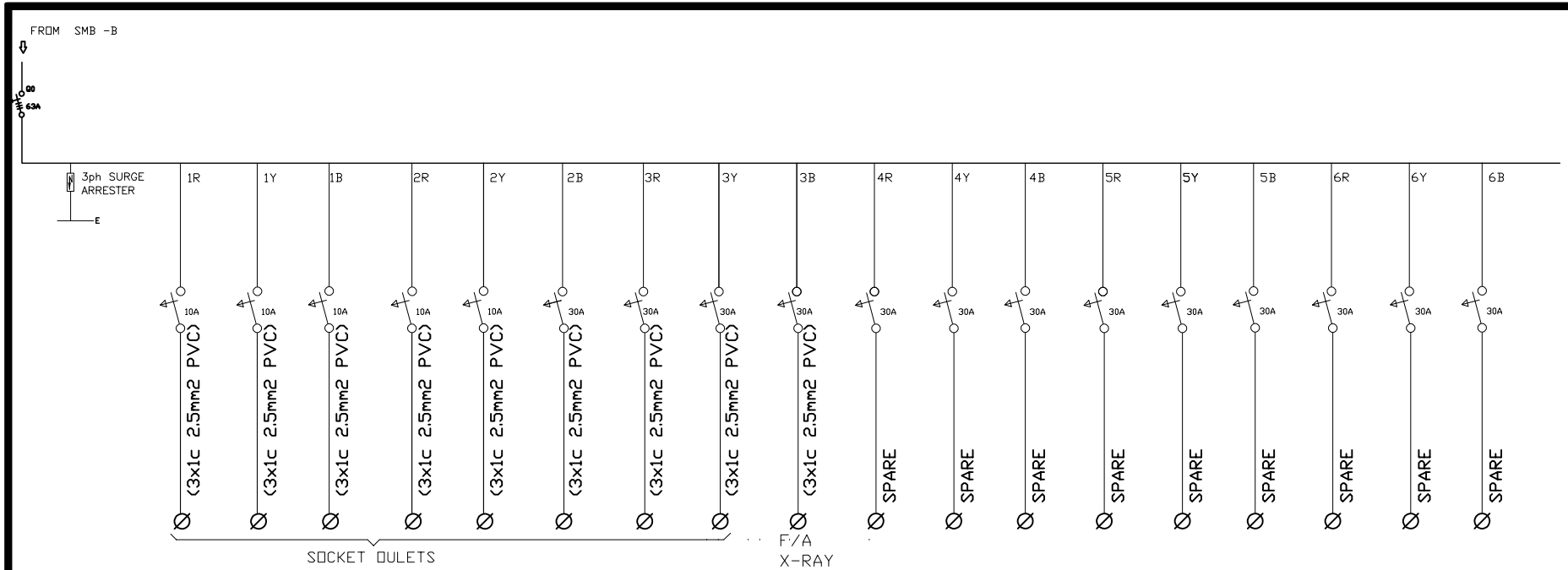
PANEL		LOCATION				VOLTAGE		FLUSH <input checked="" type="checkbox"/>		SURFACE <input type="checkbox"/>		MCCB		BUS SIZE					
F3P		FIRST FLOOR, STREAM 2 DOCTORS' ZONE				230/415V						100A MAIN ISOL 100A		30 A <input type="checkbox"/> 60 A <input type="checkbox"/> 100 A <input checked="" type="checkbox"/> 400 A <input type="checkbox"/>					
CIRCUIT	ITEM/LOAD	MCB RATING	POLE	CABLE SIZE	CPC SIZE	PHASE			PHASE			CABLE SIZE	CPC SIZE	POLE	MCB RATING	ITEM/LOAD	CIRCUIT		
						R	Y	B	R	Y	B								
						mm ²	mm ²	mm ²	mm ²	mm ²	mm ²								
1R	HD	20A	1	4.0	4.0	1840	-	-	1840	-	-	4.0	4.0	1	20A	HD	2R		
1Y	HD	20A	1	4.0	4.0	-	1840	-	-	1840	-	4.0	4.0	1	20A	HD	2Y		
1B	HD	20A	1	4.0	4.0	-	-	1840	-	-	1840	4.0	4.0	1	20A	HD	2B		
3R	HD	20A	1	4.0	4.0	1840	-	-	1840	-	-	4.0	4.0	1	20A	HD	4R		
3Y	HD	20A	1	4.0	4.0	-	1840	-	-	1840	-	4.0	4.0	1	20A	HD	4Y		
3B	HD	20A	1	4.0	4.0	-	-	1840	-	-	1840	4.0	4.0	1	20A	HD	4B		
5R	HD	20A	1	4.0	4.0	1840	-	-	1840	-	-	4.0	4.0	1	20A	HD	6R		
5Y	HD	20A	1	4.0	4.0	-	1840	-	-	1840	-	4.0	4.0	1	20A	HD	6Y		
5B	HD	20A	1	4.0	4.0	-	-	1840	-	-	1840	-	4.0	4.0	1	20A	HD	6B	
7R	SPARES	20A	1	4.0	4.0	-	-	-	-	-	-	4.0	4.0	1	20A	SPARES	8R		
7Y		20A	1	4.0	4.0	-	-	-	-	-	-	4.0	4.0	1	20A		8Y		
7B		20A	1	4.0	4.0	-	-	-	-	-	-	4.0	4.0	1	20A		8B		
						PHASE R			PHASE Y			PHASE B			PEAK LOAD		PEAK AMPS		
	TOTAL CONNECTED LOAD (WATTS)					11040			11040			9200			11040				
	TOTAL CONNECTED LOAD (VA)					13800			13800			11500			13800		72.6		
	AT 0.7 DIVERSITY FACTOR					9660			9660			8050			9660		50.8		
LEGEND										REMARKS									
L : LIGHTING CIRCUITS S : 13A SWITCHED SOCKET OUTLET RING CIRCUITS AC :AIR CONDITIONER UNIT. HD :HAND DRYER.										CABLE SIZE : 4c - 35mmsq PVC/PVC COPPER CABLE. 1c - 16mmsq PVC/PVC AS CPC. BOARD SIZE : 100A 8-WAY TPN MCB DISTRIBUTION BOARD WITH 100A TPN INTEGRAL ISOLATOR									



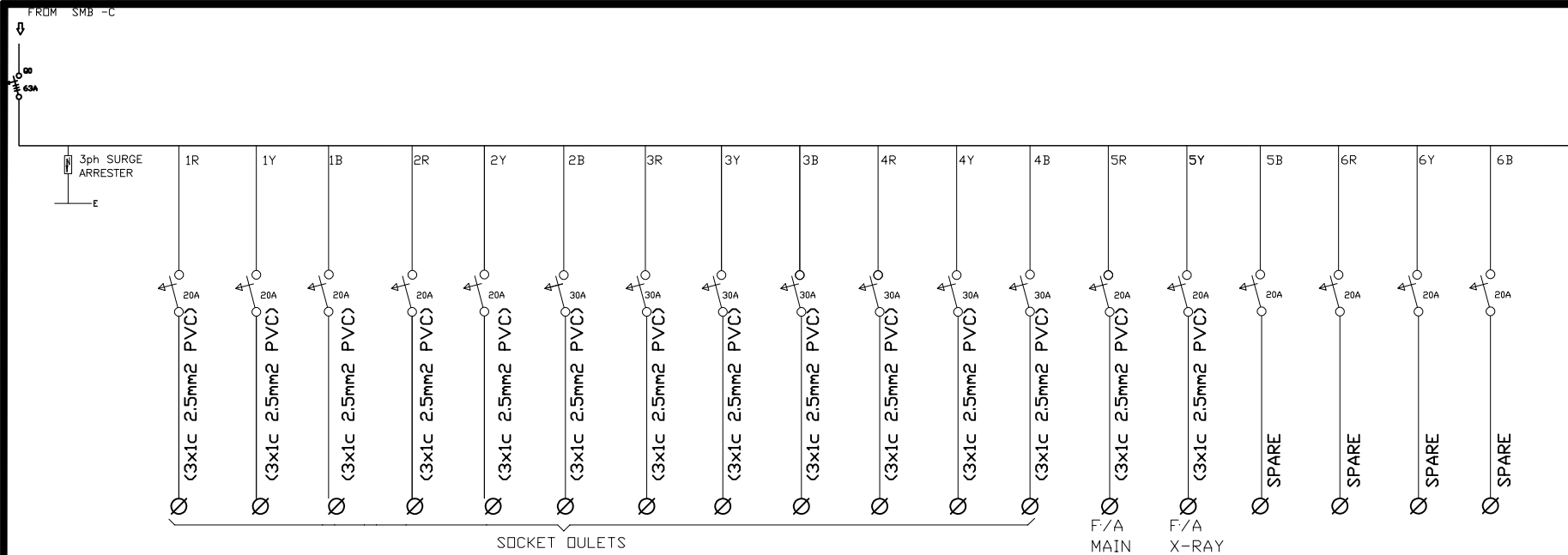
PANEL F3LP		LOCATION FIRST FLOOR, ADMIN				VOLTAGE 230/415V 3Ø/4WIRE			FLUSH ✓ SURFACE X			MCCB 100A MAIN ISOL 100A			BUS SIZE 30 A X 60 A X 100 A ✓ 400 A X			
CIRCUIT	ITEM/LOAD	MCBRATING	POLE	CABLESIZEmm2	CPCSIZEmm2	PHASE			PHASE			CPCSIZEmm2	CABLESIZEmm2	POLE	MCBRATING	ITEM/LOAD	CIRCUIT	
						R	Y	B	R	Y	B							
1R	L	10A	1	1.5	1.5	560	-	-	750	-	-	2.5	2.5	1	30A	S	2R	
1Y	L	10A	1	1.5	1.5	-	420	-	-	600	-	2.5	2.5	1	30A	S	2Y	
1B	S	30A	1	2.5	2.5	-	-	750	-	-	450	2.5	2.5	1	30A	S	2B	
3R	S	30A	1	2.5	2.5	450	-	-	1200	-	-	4.0	4.0	1	20A	WH	4R	
3Y	AC	20A	1	4.0	4.0	-	1840	-	-	1200	-	4.0	4.0	1	20A	WH	4Y	
3B	AC	20A	1	4.0	4.0	-	-	1840	-	-	1840	4.0	4.0	1	20A	HD	4B	
5R	HD	20A	1	4.0	4.0	1840	-	-	1840	-	-	4.0	4.0	1	20A	AC	6R	
5Y	CCU	30A	1	6.0	6.0	-	2500	-	-	-	-	-	-	1	20A	SPARES	6Y	
5B	AC	20A	1	4.0	4.0	-	-	1840	-	-	-	-	-	1	20A		6B	
7R	SPARES	20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		8R	
7Y		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		8Y	
7B		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A	8B		
						PHASE R		PHASE Y		PHASE B		PEAK LOAD			PEAK AMPS			
TOTAL CONNECTED LOAD (WATTS)						6640		6560		6720		6720						
TOTAL CONNECTED LOAD (VA)						8300		8200		8400		8400			36.5			
AT 0.7 DIVERSITY FACTOR						5810		5740		5880		5880			25.6			
LEGEND										REMARKS								
L : LIGHTING CIRCUITS S :13A SWITCHED SOCKET OUTLET RING CIRCUITS AC :AIR CONDITIONER UNIT. HD :HAND DRYER										CABLE SIZE : 4c - 35mmsq PVC/PVC COPPER CABLE. 1c - 16mmsq PVC/PVC AS CPC. BOARD SIZE : 100A 8-WAY TPN MCB DISTRIBUTION BOARD WITH 100A TPN INTEGRAL ISOLATOR								



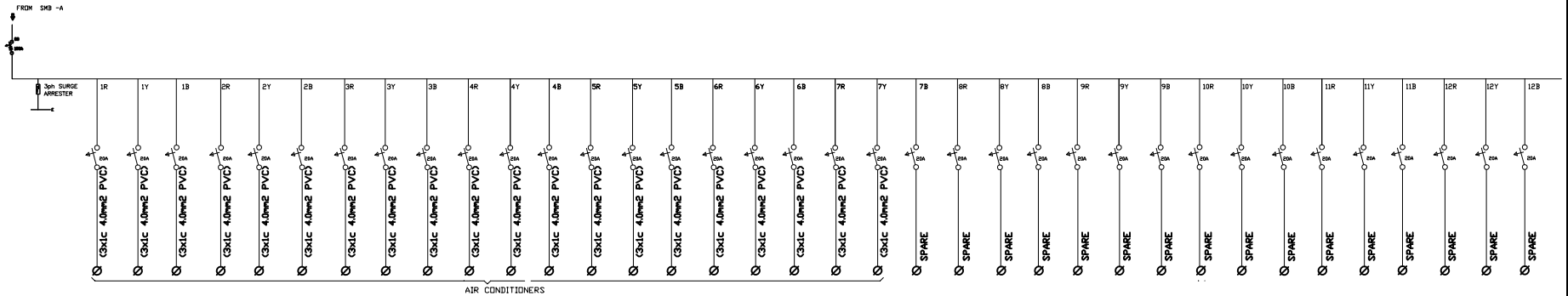
PANEL F4LP		SOCKET OUTLETS LOCATION FIRST FLOOR, LAB OFFICES					VOLTAGE 230/415V 3Ø/4WIRE			FLUSH <input checked="" type="checkbox"/> SURFACE <input checked="" type="checkbox"/>			MCCB 100A MAIN ISOL 100A			BUS SIZE 30 A <input checked="" type="checkbox"/> 60 A <input checked="" type="checkbox"/> 100 A <input checked="" type="checkbox"/> 400 A <input checked="" type="checkbox"/>		
CIRCUIT	ITEM/LOAD	MCB RATING	P O L E	C A B L E S I Z E mm²	C D C S I Z E mm²	PHASE			PHASE			C A B L E S I Z E mm²	P O L E	MCB RATING	ITEM/LOAD	CIRCUIT		
						R	Y	B	R	Y	B							
1R	L	10A	1	1.5	1.5	940	-	-	900	-	-	2.5	2.5	1	30A	S	2R	
1Y	L	10A	1	1.5	1.5	-	835	-	-	900	-	2.5	2.5	1	30A	S	2Y	
1B	L	10A	1	1.5	1.5	-	-	160	-	-	900	2.5	2.5	1	30A	S	2B	
3R	S	30A	1	2.5	2.5	900	-	-	1840	-	-	4.0	4.0	1	20A	AC	4R	
3Y	S	30A	1	2.5	2.5	-	750	-	-	1840	-	4.0	4.0	1	20A	AC	4Y	
3B	S	30A	1	2.5	2.5	-	-	600	-	-	1840	4.0	4.0	1	20A	AC	4B	
5R	AC	20A	1	4.0	4.0	1840	-	-	1840	-	-	4.0	4.0	1	20A	HD	6R	
5Y	AC	20A	1	4.0	4.0	-	1840	-	-	1840	-	4.0	4.0	1	20A	AC	6Y	
5B	AC	20A	1	4.0	4.0	-	-	1840	-	-	1840	4.0	4.0	1	20A	AC	6B	
7R	SPARES	20A	1	-	-	-	-	-	-	-	-	-	-	1	20A	SPARES	8R	
7Y		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		8Y	
7B		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		8B	
						PHASE R		PHASE Y		PHASE B		PEAK LOAD			PEAK AMPS			
TOTAL CONNECTED LOAD (WATTS)						8260		8005		7180		8260						
TOTAL CONNECTED LOAD (VA)						10325		10006		8975		10325			44.9			
AT 0.7 DIVERSITY FACTOR						7228		7004		6283		7228			31.4			
LEGEND										REMARKS								
L : LIGHTING CIRCUITS S :13A SWITCHED SOCKET OUTLET RING CIRCUITS AC :AIR CONDITIONER UNIT. HD :HAND DRYER										CABLE SIZE : 4c - 35mmsq PVC/PVC COPPER CABLE. 1c - 16mmsq PVC/PVC AS CPC. BOARD SIZE : 100A 8-WAY TPN MCB DISTRIBUTION BOARD WITH 100A TPN INTEGRAL ISOLATOR								



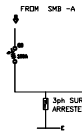
PANEL UP2		LOCATION GROUND FLOOR, STREAM 1 DOCTORS' ZONE				VOLTAGE 230/415V 3Ø/4WIRE		FLUSH <input checked="" type="checkbox"/> SURFACE <u> X </u>		MCBB <u>63A</u> MAIN ISOL <u>63A</u>		BUS SIZE 30 A <u> X </u> 60 A <u> ✓ </u> 100 A <u> X </u> 400 A <u> X </u>					
CIRCUIT	ITEM/LOAD	MCB RATING	P OLE	CABLE SIZE mm ²	CPC	PHASE			PHASE			CABLE SIZE mm ²	C P C	MCB P OLE RATING	ITEM/LOAD	CIRCUIT	
						R	Y	B	R	Y	B						
1R	S	30A	1	2.5	2.5	2400	-	-	2400	-	-	2.5	2.5	1	30A	S	2R
1Y	S	30A	1	2.5	2.5	-	2400	-	-	2000	-	2.5	2.5	1	30A	S	2Y
1B	S	30A	1	2.5	2.5	-	-	2400	-	-	2000	2.5	2.5	1	30A	S	2B
3R	S	30A	1	2.5	2.5	2000	-	-	-	-	-	-	-	1	20A	} SPARES	4R
3Y	FA-X-RAY	20A	1	2.5	2.5	-	600	-	-	-	-	-	-	1	20A		4Y
3B	} SPARES	20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		4B
5R		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A		6R
5Y		20A	1	-	-	-	-	-	-	-	-	-	-	1	20A	6Y	
5B	} SPARES	20A	1	-	-	-	-	-	-	-	-	-	-	1	20A	6B	



PANEL		LOCATION				VOLTAGE		FLUSH <input checked="" type="checkbox"/>		MCCB		BUS SIZE					
UP3		GROUND FLOOR, STREAM 2 DATA REG ZONE				230/415V		SURFACE <input checked="" type="checkbox"/>		63A MAIN ISOL 63A		30 A <input checked="" type="checkbox"/> 60 A <input checked="" type="checkbox"/> 100 A <input checked="" type="checkbox"/> 400 A <input checked="" type="checkbox"/>					
CIRCUIT	ITEM/LOAD	MCB RATING	POLE	CABLE SIZE mm ²	CPC CABLE SIZE mm ²	PHASE			PHASE			CIRCUIT					
						R	Y	B	R	Y	B						
1R	S	30A	1	2.5	2.5	2000	--	--	2000	--	--	2.5	2.5	1	30A	S	2R
1Y	S	30A	1	2.5	2.5	--	1600	--	--	2000	--	2.5	2.5	1	30A	S	2Y
1B	S	30A	1	2.5	2.5	--	--	2000	--	--	2000	2.5	2.5	1	30A	S	2B
3R	S	30A	1	2.5	2.5	1200	--	--	1200	--	--	2.5	2.5	1	30A	S	4R
3Y	S	30A	1	2.5	2.5	--	1600	--	--	1200	--	2.5	2.5	1	30A	S	4Y
3B	S	30A	1	2.5	2.5	--	--	2000	--	--	1600	2.5	2.5	1	30A	S	4B
5R	FA-MAIN	20A	1	2.5	2.5	200	--	--	--	--	--	1	20A	} SPARES	1	20A	6R
5Y	FA-X-RAY	20A	1	2.5	2.5	--	400	--	--	--	--	1	20A		1	20A	6Y
5B	SPARE	20A	1	--	--	--	--	--	--	--	--	1	20A		1	20A	6B



PANEL G2P		LOCATION GROUND FLOOR, STREAM 1 DOCTORS' ZONE				VOLTAGE 230/415V 3c/4WIRE			FLUSH <u>✓</u> SURFACE <u>X</u>			MCCB 100A MAIN ISOL 100A			BUS SIZE 30 A <u>X</u> 60 A <u>X</u> 100 A <u>✓</u> 400 A <u>X</u>		
CIRCUIT	ITEM/LOAD	MCB RATING	POL E	CABLE SIZE	CPC SIZE	PHASE			PHASE			CPC SIZE	CABLE SIZE	POL E	MCB RATING	ITEM/LOAD	CIRCUIT
						R	Y	B	R	Y	B						
1R	AC	20A	1	4.0	4.0	1840	—	—	1840	—	—	mm ²	mm ²	1	20A	AC	1
1Y	AC	20A	1	4.0	4.0	—	1840	—	—	1840	—	4.0	4.0	1	20A	AC	2
1B	AC	20A	1	4.0	4.0	—	—	1840	—	—	1840	4.0	4.0	1	20A	AC	2
3R	AC	20A	1	4.0	4.0	1840	—	—	1840	—	—	4.0	4.0	1	20A	AC	4
3Y	AC	20A	1	4.0	4.0	—	1840	—	—	1840	—	4.0	4.0	1	20A	AC	4
3B	AC	20A	1	4.0	4.0	—	—	1840	—	—	1840	4.0	4.0	1	20A	AC	4
5R	AC	20A	1	4.0	4.0	1840	—	—	1840	—	—	4.0	4.0	1	20A	AC	6
5Y	AC	20A	1	4.0	4.0	—	1840	—	—	1840	—	4.0	4.0	1	20A	AC	6
5B	AC	20A	1	4.0	4.0	—	—	1840	—	—	1840	4.0	4.0	1	20A	AC	6
7R	AC	20A	1	4.0	4.0	1840	—	—	—	—	—	—	—	1	20A	SPARES	8
7Y	AC	20A	1	4.0	4.0	—	1840	—	—	—	—	—	—	1	20A		8
7B	SPARE	20A	1	—	—	—	—	—	—	—	—	—	—	1	20A		8
9R	SPARES	20A	1	—	—	—	—	—	—	—	—	—	—	1	20A		9
9Y		20A	1	—	—	—	—	—	—	—	—	—	—	1	20A		9
9B		20A	1	—	—	—	—	—	—	—	—	—	—	1	20A		9
11R		20A	1	—	—	—	—	—	—	—	—	—	—	1	20A		1
11Y		20A	1	—	—	—	—	—	—	—	—	—	—	1	20A		1
11B	20A	1	—	—	—	—	—	—	—	—	—	—	—	1	20A	1	
						PHASE R	PHASE Y		PHASE B		PEAK LOAD		PEAK AMPS				
TOTAL CONNECTED LOAD (WATTS)						12880		12880		11040		12880					
TOTAL CONNECTED LOAD (VA)						16100		16100		13800		16100		70.0			
AT 0.7 DIVERSITY FACTOR						11270		11270		9660		11270		49.0			
LEGEND						REMARKS											
L : LIGHTING CIRCUITS						CABLE SIZE : 4c – 35mmsq PVC/PVC COPPER CABLE.											
S :13A SWITCHED SOCKET OUTLET RING CIRCUITS						1c – 16mmsq PVC/PVC AS CPC.											
AC :AIR CONDITIONER UNIT.						BOARD SIZE : 100A 12-WAY TPN MCB DISTRIBUTION BOARD											
HD :HAND DRYER.						WITH 100A TPN INTEGRAL ISOLATOR											



AIR CONDITIONERS

PANEL F2P		LOCATION FIRST FLOOR, STREAM 2 DOCTORS' ZONE				VOLTAGE 230/415V 3Ø/4WIRE			FLUSH <input checked="" type="checkbox"/> SURFACE <input checked="" type="checkbox"/>			MCCB 100A MAIN ISOL 100A		BUS SIZE 30 A <input checked="" type="checkbox"/> 60 A <input checked="" type="checkbox"/> 100 A <input checked="" type="checkbox"/> 400 A <input checked="" type="checkbox"/>				
CIRCUIT	ITEM/LOAD	MCB RATING	POLE	CABLE SIZE	CPC SIZE	PHASE			PHASE			CPC SIZE	CABLE SIZE	POLE	MCB RATING	ITEM/LOAD	CIRCUIT	
						R	Y	B	R	Y	B							
1R	AC	20A	1	4.0	4.0	1840	-	-	1840	-	-	4.0	4.0	1	20A	AC	2R	
1Y	AC	20A	1	4.0	4.0	-	1840	-	-	1840	-	4.0	4.0	1	20A	AC	2Y	
1B	AC	20A	1	4.0	4.0	-	-	1840	-	-	1840	4.0	4.0	1	20A	AC	2B	
3R	AC	20A	1	4.0	4.0	1840	-	-	1840	-	-	4.0	4.0	1	20A	AC	4R	
3Y	AC	20A	1	4.0	4.0	-	1840	-	-	1840	-	4.0	4.0	1	20A	AC	4Y	
3B	AC	20A	1	4.0	4.0	-	-	1840	-	-	1840	4.0	4.0	1	20A	AC	4B	
5R	AC	20A	1	4.0	4.0	1840	-	-	1840	-	-	4.0	4.0	1	20A	AC	6R	
5Y	AC	20A	1	4.0	4.0	-	1840	-	-	1840	-	4.0	4.0	1	20A	AC	6Y	
5B	AC	20A	1	4.0	4.0	-	-	1840	-	-	1840	4.0	4.0	1	20A	AC	6B	
7R	AC	20A	1	4.0	4.0	1840	-	-	1840	-	-	4.0	4.0	1	20A	AC	8R	
7Y	AC	20A	1	4.0	4.0	-	1840	-	-	-	-	-	-	1	20A	SPARE	8Y	
7B	AC	20A	1	4.0	4.0	-	-	1840	-	-	-	-	-	1	20A	SPARES	8B	
9R	SPARES	20A	1	-	-							-	-	1	20A		9R	
9Y		20A	1	-	-							-	-	1	20A		9Y	
9B		20A	1	-	-							-	-	1	20A		9B	
11R		20A	1	-	-							-	-	1	20A		11R	
11Y		20A	1	-	-							-	-	1	20A	11Y		
11B		20A	1	-	-							-	-	1	20A		11B	
						PHASE R	PHASE Y		PHASE B		PEAK LOAD		PEAK AMPS					
	TOTAL CONNECTED LOAD (WATTS)					14720	12880		12880		14720							
	TOTAL CONNECTED LOAD (VA)					18400	16100		16100		18400		80.0					
	AT 0.7 DIVERSITY FACTOR					12880	11270		11270		12880		56.0					
	LEGEND								REMARKS									
	L : LIGHTING CIRCUITS S :13A SWITCHED SOCKET OUTLET RING CIRCUITS AC :AIR CONDITIONER UNIT. HD :HAND DRYER.								CABLE SIZE : 4c - 35mmsq PVC/PVC COPPER CABLE. 1c - 16mmsq PVC/PVC AS CPC. BOARD SIZE : 100A 12-WAY TPN MCB DISTRIBUTION BOARD WITH 100A TPN INTEGRAL ISOLATOR									