

DISTRIBUTION BOARDS & FEEDER DATA SCHEDULES

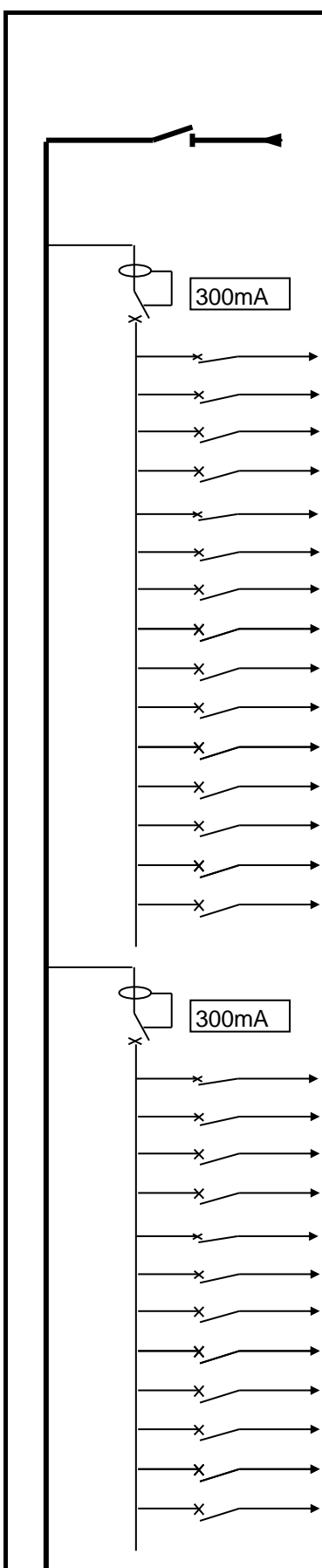
F E E D E R		PROTECTION DATA			FEEDER DATA							
Designation	Volts	Type	Frame Size Amp.	Trip Rating Amp.	Type	Size mm ²	Nb of Phases	App. Length m	Touching / Spaced/ Duct Bank	Flat / Trefoil / multicore	Connected LOAD Kva	Demand LOAD Amp / kVA
DP-OPD												
Incoming From Plant Room	415	MCCB	630	500	XLPE	2 x (4 C 120) + 2 x 70 E	3		touching	multicore	286.6	294 / 203.2
LP-GF	415	MCCB	160	100	XLPE	1 x (4 C, 35) + 1 x 6 E	3	5	touching	multicore	40.2	43 / 29.8
LP-F1	415	MCCB	160	100	XLPE	1 x (4 C, 35) + 1 x 6 E	3	30	touching	multicore	39.4	42 / 29.2
PP-GF	415	MCCB	160	160	XLPE	1 x (4 C, 70) + 1 x 35 E	3	41	touching	multicore	70	71 / 49.0
PP-F1	415	MCCB	250	200	XLPE	1 x (4 C, 95) + 1 x 50 E	3	35	touching	multicore	87	87 / 60.1
UPS-OPD	415	MCCB	160	100	XLPE	1 x (4 C, 35) + 1 x 16 E	3	15	touching	multicore	50	51 / 35.1
SPARE	415	MCCB	160	100	XLPE							
SPARE	415	MCCB	160	40	XLPE							
UDP-OPD												
Incoming From UPS	415	MCCB	160	80	XLPE	1 x (4 C 25) + 1 x 16 E	3	5	touching	multicore	39	51 / 35.1
UPP-GF	415	MCCB	160	40	XLPE	1 x (4 C, 10) + 1 x 10 E	3	5	touching	multicore	16	21 / 14.4
UPP-F1	415	MCCB	160	50	XLPE	1 x (4 C, 16) + 1 x 16 E	3	30	touching	multicore	23	30 / 20.7
SPARE	415	MCCB	160	40	XLPE							

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: Ground Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: LP-GF
Panel Type: Recessed Mounted



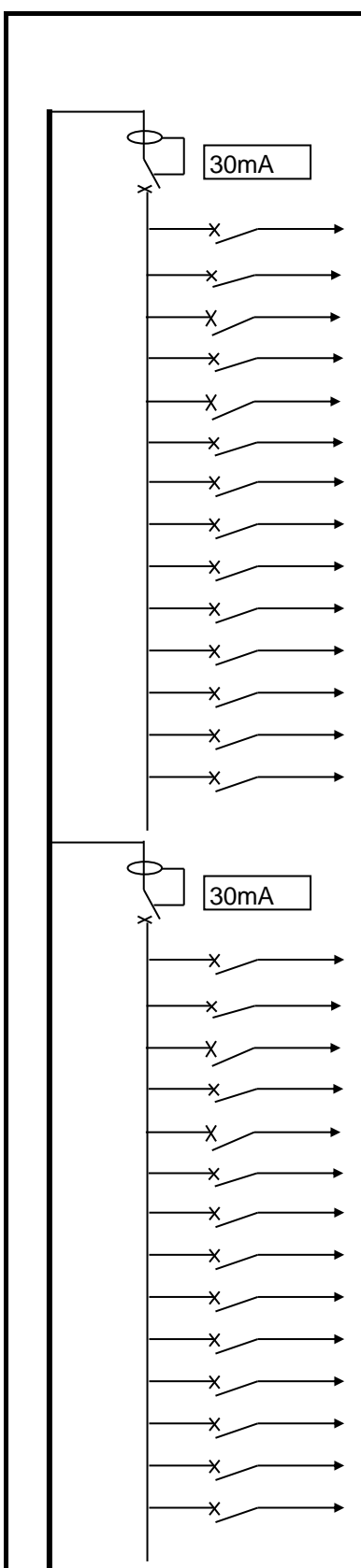
Circuit Ref	Circuit Breaker		Control	Wires (mm2)	Load (VA)			Designation of Load
	Poles (Nb)	Rate (A)			R	Y	B	
M.S.	4	100		35				<div>MD: Motion Detector</div> <div>LR: Latching Relay</div>
	4	32						
L1	1P+N	16	CT	2.5	257.4			Corridor
L2	1P+N	16	CT	2.5		158.4		Reception& waiting area/Cariology
L3	1P+N	16	CT	2.5			198.0	Reception& waiting area/Neuro-Resp
L4	1P+N	16	CT	2.5	158.4			Corridor
L5	1P+N	16	CT	2.5		245.4		Waiting Area
L6	1P+N	16	CT	2.5			555.8	Entrance
L7	1P+N	16		2.5	198.0			Public Pharmacy/Gift shop
L8	1P+N	16		2.5		304.0		Clean utility
L9	1P+N	16		2.5			252.0	Dirty utility/Staff toilets(M)&(F)
L10	1P+N	16		2.5	254.4			Gen.consult R.(1)&(2)/Equip.Store
L11	1P+N	16		2.5		350.4		Gen. consult R.(4)&(5)Elec.R./Server R.
L12	1P+N	16		2.5			217.8	Cardiac Consut. Rooms
	1P+N	16						SPARE
	1P+N	16						SPARE
	1P+N	16						SPARE
	4	32						
L13	1P+N	16		2.5	235			Cardiac Consut. Rooms
L14	1P+N	16		2.5		237.6		Consultation R. Neurology/Egg/Emg
L15	1P+N	16		2.5			175.2	Pulmonary Consult. Examination Rooms
L16	1P+N	16		2.5	440.4			Gymnasium
L17	1P+N	16		2.5		344.8		Hydrotherapy Pool
L18	1P+N	16		2.5			302.4	Toilets(M)&(F)
L19	1P+N	16		2.5	421.2			Staff Lounge /Changing &Shower(M)&(F)/Lockers
L20	1P+N	16		2.5		370		Utility/Waiting Area/Toilets(M)&(F)
L21	1P+N	16		2.5			85	EXIT sign/Emergency
L22	1P+N	16		2.5	65			EXIT sign/Emergency
L23	1P+N	16		-		-		Spare
L24	1P+N	16		-			-	Spare

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: Ground Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: LP-GF
Panel Type: Recessed Mounted



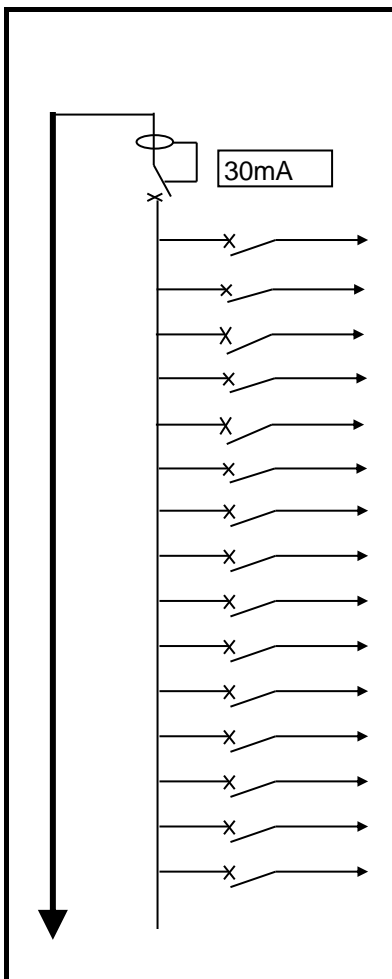
Circuit Ref	Circuit Breaker		Control	Wires (mm ²)	Load (VA)			Designation of Load
	Poles (Nb)	Rate (A)			R	Y	B	
	4	32						
S1	1P+N	20		4	720			Corridor
S2	1P+N	20		4		1260		Reception& waiting area/Neuro-Resp
S3	1P+N	20		4			990	Egg/Emg
S4	1P+N	20		4	810			Consultation R. Neurology
S5	1P+N	20		4		810		Consultation R. Neurology
S6	1P+N	20		4			990	Pulmonary Consult. Examination Room
S7	1P+N	20		4	990			Pulmonary Consult. Examination Room
S8	1P+N	20		4		1620		Echocardiography ultrasound / Holter monit.
S9	1P+N	20		4			990	Cardiac Consut. Exam. Room / Ecg (2)
S10	1P+N	20		4	990			Cardiac Consut. Exam. Room / Ecg (1)
S11	1P+N	20		4		990		Cardiac Consut. Room / Stress Test
S12	1P+N	20		4			1260	Reception& waiting area/Cariology
	1P+N	20						SPARE
	1P+N	20						SPARE
	4	32						
S13	1P+N	20		4	990			General consult Room 5
S14	1P+N	20		4		990		General consult Room 4
S15	1P+N	20		4			900	Corridor / Equip.Store
S16	1P+N	20		4	990			General consult Room 2
S17	1P+N	20		4		990		General consult Room 1
S18	1P+N	20		4			540	Supervisor's Office
S19	1P+N	20		4	1440			Clean Utility/ Dirty Utility/Staff TLts
S20	1P+N	20		4		900		Reception & cas./ Archive store
S21	1P+N	20		4			900	Entrance / Gift Shop
S22	1P+N	20		4	1440			Waiting Area
S23	1P+N	20		4		810		Waiting Area VIP / Utility
S24	1P+N	20		4			630	Pantry / Lounge
	1P+N	20						SPARE
	1P+N	20						SPARE

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: Ground Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: LP-GF
Panel Type: Recessed Mounted



Circuit Ref	Circuit Breaker		Control	Wires (mm2)	Load (VA)		
	Poles (Nb)	Rate (A)			R	Y	B
	4	32					
S25	1P+N	20		4	500		
S26	1P+N	20		4		1080	
S27	1P+N	20		4			500
S28	1P+N	20		4	540		
S29	1P+N	20		4		900	
S30	1P+N	20		4			720
S31	1P+N	20		4	900		
S32	1P+N	20		4		900	
S33	1P+N	20		4			900
S34	1P+N	20		4	500		
S35	1P+N	20		4		500	
S36	1P+N	20		4			720
zz	1P+N	20		4	500		
S35	1P+N	20		4		500	
S36	1P+N	20		4			720

Designation of Load
Pantry / Lounge (18.1)
Lockers / Staff Lounge
Staff Lounge (18.1)
Staff Shower/Changing
Hydrotherapy Pool
Treatment Room (2) & (3)
Treatment Room (1) / Clean Utility
Gymnasium
Gymnasium
Gymnasium (32)
Gymnasium (33.6)
Electrical R./ Server Room
Gymnasium (32)
Gymnasium (33.6)
Electrical R./ Server Room

Breaking Capacity: 6KA
Lighting
Socket
Mechanical
Misc / Kitchen
Main Switch

Circuit Breaker (A)			Connected Load (VA)			
Frame	Rate		R	Y	B	Total
			2029	2011	1786	5826.2
			11310	12250	10760	34320
	100		13339	14261	12546	40146

Diversity Factor	Required Load (VA)
1	5826
0.7	24024
	29850

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: First Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: LP-F1
Panel Type: Recessed Mounted

Circuit Ref	Circuit Breaker		Control	Wires (mm ²)	Load (VA)			Designation of Load
	Poles (Nb)	Rate (A)			R	Y	B	
M.S.	4	100		35				<div>MD: Motion Detector</div> <div>LR: Latching Relay</div> <div>PC: Photo Cell</div>
	4	32						
L1	1P+N	16		2.5	278.6			Reception & Control
L2	1P+N	16		2.5		277.2		Corridor
L3	1P+N	16		2.5			297.0	Corridor
L4	1P+N	16		2.5	297.0			Corridor
L5	1P+N	16		2.5		271.2		Waiting area
L6	1P+N	16		2.5			319.2	Pantry/staff Lounge/Clean Utility/Store
L7	1P+N	16		2.5	268.8			Toilets(M)&(F)
L8	1P+N	16		2.5		192.0		Waiting area (VIP)/Gen. consult.
L9	1P+N	16		2.5			192.0	General Consul.Examination Rooms
L10	1P+N	16		2.5	217.8			Ophthalmology Consult.
L11	1P+N	16		2.5		198.0		Ophthalmology Procedure/Consult.
L12	1P+N	16		2.5			198.0	Xtray/Dental Consult.
	1P+N	16						Spare
	1P+N	16						Spare
	1P+N	16						Spare
	4	32						
L13	1P+N	16		2.5	192.0			Obstetrics&Gynaecology Consult.
L14	1P+N	16		2.5		376.2		Dental Lab. Consultt.
L15	1P+N	16		2.5			172.2	Obstetrics&Gynaecology Consult.
L16	1P+N	16		2.5	192.0			Nephrology & Urology Consult.
L17	1P+N	16		2.5		192.0		Urodynamics
L18	1P+N	16		2.5			237.6	Gen. Consult./Equip.Store/Drug Store
L19	1P+N	16		2.5	237.6			Ear,Nose, Throat Consult.
L20	1P+N	16		2.5		396.0		Endocrinology Clinic
L21	1P+N	16		2.5			237.6	Gen. Consult./Ear,Nose, Throat Consult.
L22	1P+N	16		2.5	35.0			EXIT sign/Emergency
L23	1P+N	16		2.5		75.0		EXIT sign/Emergency
	1P+N	16						Spare
	1P+N	16						Spare
	1P+N	16						Spare

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: First Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: LP-F1
Panel Type: Recessed Mounted

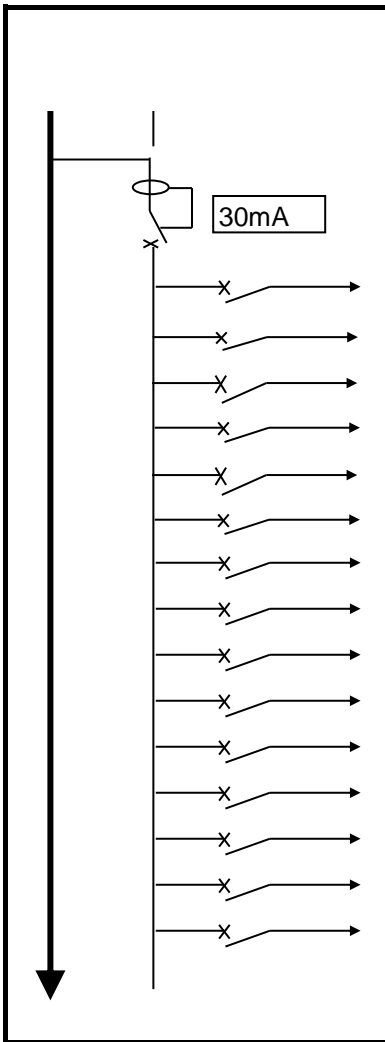
Circuit Ref	Circuit Breaker		Control	Wires (mm2)	Load (VA)			Designation of Load
	Poles (Nb)	Rate (A)			R	Y	B	
	4	32						
S1	1P+N	20		4	900			Store/Dirty Utility/Toilets
S2	1P+N	20		4		720		Reception & Control
S3	1P+N	20		4			1170	Pantry/staff Lounge/Clean Utility
S4	1P+N	20		4	180			Pantry
S5	1P+N	20		4		180		Pantry
S6	1P+N	20		4			810	General Consul.Examination Room
S7	1P+N	20		4	630			Waiting area (VIP)
S8	1P+N	20		4		1440		General Consul.Examination Rooms
S9	1P+N	20		4			900	Xray / Dental Consult.Examination Room
S10	1P+N	20		4	540			Dental Consult.Examination Room
S11	1P+N	20		4		1080		Dental Consult.Examination Room
S12	1P+N	20		4			1080	Dental Consult.Examination Room
	1P+N	20						Spare
	1P+N	20						Spare
	1P+N	20						Spare
	4	32						
S13	1P+N	20		4	900			Dental Lab./ Equip. Store
S14	1P+N	20		4		720		General Consul.Examination Room
S15	1P+N	20		4			1080	Secretary Office/Hospital Nutritionist
S16	1P+N	20		4	1080			Drug Store / Endocrinology Clinic 1
S17	1P+N	20		4		1260		Endocrinology Clinic 2&3
S18	1P+N	20		4			900	Ophthalmology Consult.
S19	1P+N	20		4	900			Ophthalmology Consult.
S20	1P+N	20		4		1260		Ophthalmology Procedure/Optomety Preparation
S21	1P+N	20		4			810	Obstetrics&Gynaecology Consult.
S22	1P+N	20		4	1710			Ophthalmology Consult./Obstetrics&Gynaecology Consult.
S23	1P+N	20		4		810		Obstetrics&Gynaecology Consult.
S24	1P+N	20		4			810	Nephrology & Urology Consult.
	1P+N	20						Spare
	1P+N	20						Spare
	1P+N	20						Spare

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: First Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: LP-F1
Panel Type: Recessed Mounted



Circuit Ref	Circuit Breaker		Control	Wires (mm2)	Load (VA)			Designation of Load
	Poles (Nb)	Rate (A)			R	Y	B	
	4	32						
S25	1P+N	20		4	810			Obstetrics&Gynaecology Consult.
S26	1P+N	20		4		990		Nephrology & Urology Consult.
S27	1P+N	20		4			720	Urodynamics
S28	1P+N	20		4	1260			Urodynamics / Secretary Office
S29	1P+N	20		4		1440		Ear,Nose, Throat Consult.
S30	1P+N	20		4			1350	Ear,Nose, Throat Consult./Audiometry
S31	1P+N	20		4	810			General Consul.Examination Rooms
S32	1P+N	20		4		900		Waiting Area
S33	1P+N	20		4			900	Corridor
S34	1P+N	20		4	720			Corridor
S35	1P+N	20		4		900		Corridor
S36	1P+N	20		4			720	Corridor
S37	1P+N	20		4	720			Corridor
	1P+N	20						Spare
	1P+N	20						Spare

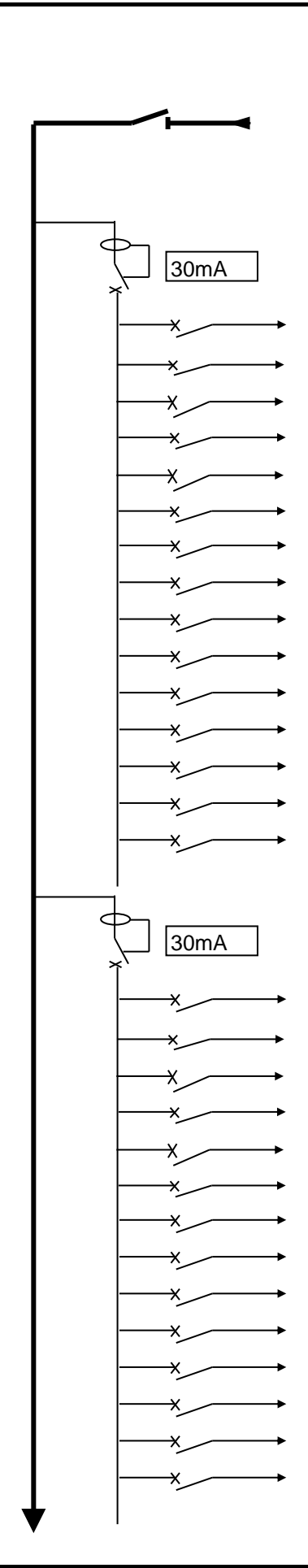
Breaking Capacity: 6KA	Circuit Breaker (A)		Connected Load (VA)				Diversity Factor	Requird Load (VA)
	Frame	Rate	R	Y	B	Total		
Lighting			1719	1978	1654	5350	1	5350
Socket			11160	11700	11250	34110	0.7	23877
Mechanical						0		
Misc / Kitchen						0		
Main Switch		100	12879	13678	12904	39460		29227

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: Ground Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: UPP-GF
Panel Type: Recessed Mounted



Circuit Ref	Circuit Breaker		Control	Wires (mm2)	Load (VA)			Designation of Load
	Poles (Nb)	Rate (A)			R	Y	B	
M.S.	4	40		10				MD: Motion Detector LR: Latching Relay
	4	25						
S1	1P+N	20		4	1350			Reception&Cas/Supervisor's Office
S2	1P+N	20		4		720		General consult Room 2
S3	1P+N	20		4			990	General consult Room 1
S4	1P+N	20		4	720			General consult Room 5
S5	1P+N	20		4		720		General consult Room 4
S6	1P+N	20		4			1260	Cardiac Consut. Exam. Room / Ecg (1) & Stress Test
S7	1P+N	20		4	180			Cardiac Consut. Exam. Room / Stress Test
S8	1P+N	20		4		180		Cardiac Consut. Exam. Room / Stress Test
S9	1P+N	20		4			180	Cardiac Consut. Exam. Room / Stress Test
S10	1P+N	20		4	180			Cardiac Consut. Exam. Room / Stress Test
S11	1P+N	20		4		540		Reception& waiting area/Cariology
S12	1P+N	20		4			720	Holter Monitoring
	1P+N	20						SPARE
	1P+N	20						SPARE
	1P+N	20						SPARE
	4	25						
S13	1P+N	20		4	720			Echocardiography ultrasound
S14	1P+N	20		4		540		Cardiac Consut. Exam. Room / Ecg (2)
S15	1P+N	20		4			540	Reception& waiting area/Neuro-Resp
S16	1P+N	20		4	720			Pulmonary Consult. Examination Room
S17	1P+N	20		4		720		Pulmonary Consult. Examination Room
S18	1P+N	20		4			720	Consultation R. Neurology
S19	1P+N	20		4	720			Consultation R. Neurology
S20	1P+N	20		4		720		EEG/EMG
S21	1P+N	20		4			1350	Gymnasum
S22	1P+N	20		4	750			Server Room
S23	1P+N	20		4		750		Server Room
	1P+N	20						SPARE
	1P+N	20						SPARE
	1P+N	20						SPARE

Breaking Capacity: 6KA	Circuit Breaker (A)			Connected Load (VA)				Diversity Factor	Requird Load (VA)
	Frame	Rate		R	Y	B	Total		
Lighting									
Socket				5340	4890	5760	15990	0.9	14391
Mechanical									

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: Ground Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: UPP-GF
Panel Type: Recessed Mounted

	Circuit Ref	Circuit Beaker		Control	Wires (mm2)	Load (VA)			Designation of Load	
		Poles (Nb)	Rate (A)			R	Y	B		
Misc / Kitchen										
Main Switch		40			5340	4890	5760	15990		14391

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: First Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: UPP-F1
Panel Type: Recessed Mounted

Circuit Ref	Circuit Breaker		Control	Wires (mm ²)	Load (VA)			Designation of Load
	Poles (Nb)	Rate (A)			R	Y	B	
M.S.	4	50		16				<div>MD: Motion Detector</div> <div>LR: Latching Relay</div>
	4	32						
S1	1P+N	20		4	1080			Reception & Control
S2	1P+N	20		4		1080		General Consul.Examination Rooms
S3	1P+N	20		4			810	General Consul.Examination Room/Xray
S4	1P+N	20		4	810			Dental Consult.Examination Room
S5	1P+N	20		4		810		Dental Consult.Examination Room
S6	1P+N	20		4			810	Dental Consult.Examination Room
S7	1P+N	20		4	810			Dental Consult.Examination Room
S8	1P+N	20		4		810		Dental Consult.Examination Room
S9	1P+N	20		4			810	Dental Consult.Examination Room
S10	1P+N	20		4	720			General Consul.Examination Room
S11	1P+N	20		4		1530		Drug Store / Hospital Nutritionist / Secretary Office
S12	1P+N	20		4			540	Endocrinology Clinic 1
	1P+N	20						SPARE
	1P+N	20						SPARE
	1P+N	20						SPARE
	4	32						
S13	1P+N	20		4	720			Endocrinology Clinic 2
S14	1P+N	20		4		720		Endocrinology Clinic 3
S15	1P+N	20		4			1080	Ophthalmology Consult.Rooms
S16	1P+N	20		4	1080			Ophthalmology Consult./ Ophthalmology Procedure
S17	1P+N	20		4		1080		Obstetrics&Gynaecology Consult.
S18	1P+N	20		4			990	Obstetrics&Gynaecology Consult.
S19	1P+N	20		4	720			Nephrology & Urology Consult.
S20	1P+N	20		4		1080		Obstetrics&Gynaecology / Nephrology & Urology Consult.
S21	1P+N	20		4			1080	Urodynamics
S22	1P+N	20		4	720			Ear,Nose, Throat Consult.
S23	1P+N	20		4		1260		Ear,Nose, Throat Consult./ Secretary Office
S24	1P+N	20		4			1170	Ear,Nose, Throat Consult./Audiometry
S25	1P+N	20		4	720			General Consul.Examination Room
	1P+N	20						SPARE
	1P+N	20						SPARE
	1P+N	20						SPARE

Breaking Capacity: 6KA	Circuit Breaker (A)		Connected Load (VA)				Diversity Factor	Requird Load (VA)
	Frame	Rate	R	Y	B	Total		
Lighting								
Socket			7380	8370	7290	23040	0.9	20736
Mechanical								
Misc / Kitchen								

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: First Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: UPP-F1
Panel Type: Recessed Mounted

	Circuit Ref	Circuit Breaker		Control	Wires (mm2)	Load (VA)			Designation of Load	
		Poles (Nb)	Rate (A)			R	Y	B		
Main Switch		50			7380	8370	7290	23040		20736

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: First Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: PP-F1
Panel Type: Recessed Mounted

Circuit Ref	Circuit Breaker		Control	Wires (mm ²)	Load (VA)			Designation of Load
	Poles (Nb)	Rate (A)			R	Y	B	
M.S.	4	200		95				<div>MD: Motion Detector</div> <div>LR: Latching Relay</div>
	4	32						
M1	1P+N	20		4	500			EWB (20L)
M2	1P+N	20		4		500		EWB (20L)
M3	1P+N	20		4			500	EWB (20L) / Toilets
M4	1P+N	20		4		500		EWB (20L) / Toilets
M5	1P+N	20		4			500	EWB (20L) / Toilets
M6	1P+N	20		4	500			EWB (20L)
M7	1P+N	20		4		500		EWB (20L) / Toilets
M8	1P+N	20		4			500	EWB (20L) / Toilets
M9	1P+N	20		4	500			EWB (20L) / Toilets
M64	1P+N	20		4		500		EWB (20L)
	1P+N	20						SPARE
	1P+N	20						SPARE
M10	1P+N	20		4		250		EF-1 / Corridor
M11	1P+N	20		4			250	EF-1 / Toilets
M12	1P+N	20		4	250			EF-1 / Corridor
M13	1P+N	20		4		250		EF-1 / Corridor
M14	1P+N	20		4	-		2500	A/C Waiting Area
M15	1P+N	20		4	2500			A/C Waiting Area
M16	1P+N	20		4		1750		A/C Ophthalmology Consult.
M17	1P+N	20		4			1500	A/C Ophthalmology Consult.
M18	1P+N	20		4	1500			A/C Visual Field Testing
M19	1P+N	20		4		1750		A/C Ophthalmology Consult.
M20	1P+N	20		4			1500	A/C Optometry Preparation
M21	1P+N	20		4	1500			A/C Optometry Preparation
M22	1P+N	20		4		1500		A/C Ophthalmology Procedure
M23	1P+N	20		4			1750	A/C Obstetrics&Gynaecology Consult.
M24	1P+N	20		4	1750			A/C Obstetrics&Gynaecology Consult.
M25	1P+N	20		4		1750		A/C Obstetrics&Gynaecology Consult.
M26	1P+N	20		4			1750	A/C Obstetrics&Gynaecology Consult.
M27	1P+N	20		4	1750			A/C Nephrology & Urology Consult.
M28	1P+N	20		4		1750		A/C Nephrology & Urology Consult.
M29	1P+N	20		4			1750	A/C Urodynamics
M30	1P+N	20		4	1750			A/C Urodynamics
M31	1P+N	20		4		1750		A/C Secretary Office
M32	1P+N	20		4			1750	A/C Ear,Nose, Throat Consult.
M33	1P+N	20		4	1750			A/C Ear,Nose, Throat Consult.
M34	1P+N	20		4		1750		A/C General Consul.Examination Room
M35	1P+N	20		4			1750	A/C Ear,Nose, Throat Consult.

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: First Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: PP-F1
Panel Type: Recessed Mounted

Circuit Ref	Circuit Breaker		Control	Wires (mm2)	Load (VA)			Designation of Load
	Poles (Nb)	Rate (A)			R	Y	B	
M36	1P+N	20		4	1750			A/C Audiometry
M37	1P+N	20		4		1500		A/C Endocrinology Clinic 3
M38	1P+N	20		4			1500	A/C Endocrinology Clinic 2
M39	1P+N	20		4	1500			A/C Secretary Office Endocrinology

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: First Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: PP-F1
Panel Type: Recessed Mounted

	Circuit Ref	Circuit Breaker		Control	Wires (mm ²)	Load (VA)			Designation of Load
		Poles (Nb)	Rate (A)			R	Y	B	
	M40	1P+N	20		4		1500		A/C Hospital Nutritionist
	M41	1P+N	20		4			1500	A/C Endocrinology Clinic 1
	M42	1P+N	20		4	1500			A/C General Consul.Examination Room
	M43	1P+N	20		4		1500		A/C Equipment Store
	M44	1P+N	20		4			1500	A/C Drug Store
	M45	1P+N	20		4	1750			A/C Dental Consult.Examination Room
	M46	1P+N	20		4		1500		A/C Dental Consult.Examination Room
	M47	1P+N	20		4			1750	A/C Dental Lab.
	M48	1P+N	20		4	1750			A/C Dental Consult.Examination Room
	M49	1P+N	20		4		1750		A/C Dental Consult.Examination Room
	M50	1P+N	20		4			1500	A/C Panoramic Xray
	M51	1P+N	20		4	1750			A/C Dental Consult.Examination Room
	M52	1P+N	20		4		1750		A/C Dental Consult.Examination Room
	M53	1P+N	20		4			1750	A/C General Consul.Examination Room
	M54	1P+N	20		4	1750			A/C General Consul.Examination Room
	M55	1P+N	20		4		1750		A/C Waiting Area VIP
	M56	1P+N	20		4			1750	A/C General Consul.Examination Room
	M57	1P+N	20		4	1500			A/C Staff Lounge
	M58	1P+N	20		4		1500		A/C Pantry
	M59	1P+N	20		4			1500	A/C Clean Utility
	M60	1P+N	20		4	2500			A/C Records
	M61,62,63	3P+N	20		4	500	500	500	Booster Pump
		1P+N	20		4				SPARE
		1P+N	20		4				SPARE
		1P+N	20		4				SPARE

Breaking Capacity: 6KA	Circuit Breaker (A)		Connected Load (VA)				Diversity Factor	Requird Load (VA)
	Frame	Rate	R	Y	B	Total		
Lighting								0
Socket								0
Mechanical			30500	27750	29250	87500	0.7	61250
Misc / Kitchen								0
Main Switch		200	30500	27750	29250	87500		61250

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: Ground Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: PP-GF
Panel Type: Recessed Mounted

Circuit Ref	Circuit Breaker		Control	Wires (mm ²)	Load (VA)			Designation of Load
	Poles (Nb)	Rate (A)			R	Y	B	
M.S.	4	160		70				<div>MD: Motion Detector</div> <div>LR: Latching Relay</div>
	4	32						
M1	1P+N	20		4	500			EWB (20L) / Dirty Utility
M2	1P+N	20		4		500		EWB (20L) / Dirty Utility
M3	1P+N	20		4			1500	EWB (80L) / Hydrotherapy Pool Toilets
M4	1P+N	20		4	1500			EWB (80L) / Hydrotherapy Pool Toilets
M5	1P+N	20		4		1500		EWB (80L) / Staff Shower Changing
M6	1P+N	20		4			500	EWB (20L) / Shower
	1P+N	20						SPARE
	1P+N	20						SPARE
	1P+N	20						SPARE
M8	1P+N	20		4		250		EF-1 / Waiting Area Toilets
M9	1P+N	20		4			250	EF-2 / Waiting Area Toilets
M10	1P+N	20		4	250			EF-1 / Hydrotherapy Pool
M11	1P+N	20		4		1750		A/C Waiting Area
M12	1P+N	20		4			1750	A/C Waiting Area
M13	1P+N	20		4	1500			A/C Waiting Area VIP
M14	1P+N	20		4		2500		A/C Hydrotherapy Pool
M15	1P+N	20		4			2500	A/C Hydrotherapy Pool
M16	1P+N	20		4	1500			A/C Staff Lounge
M17	1P+N	20		4		1500		A/C Treatment Room (2)
M18	1P+N	20		4			1500	A/C Treatment Room (3)
M19	1P+N	20		4	1500			A/C Treatment Room (1)
M20	1P+N	20		4		1750		A/C Gymnasium
M21	1P+N	20		4			1750	A/C Gymnasium
M22	1P+N	20		4	1750			A/C Gymnasium
M23	1P+N	20		4		1500		A/C Gymnasium Office
M24	1P+N	20		4			1750	A/C Consultation R. Neurology
M25	1P+N	20		4	1500			A/C Consultation R. Neurology
M26	1P+N	20		4		1500		A/C EEG/EMG
M27	1P+N	20		4			1750	A/C Pulmonary Consult. Examination Room
M28	1P+N	20		4	1750			A/C Pulmonary Consult. Examination Room
M29	1P+N	20		4		1750		A/C Reception& waiting area/Neuro-Resp
M30	1P+N	20		4			1750	A/C Reception& waiting area/Neuro-Resp

FINAL BRANCH CIRCUIT PANELBOARD

Building: SOH Hospital
Location: Ground Floor

Voltage: 415/240V.
Frequency: 50Hz

Panel Ref.: PP-GF
Panel Type: Recessed Mounted

	Circuit Ref	Circuit Breaker		Control	Wires (mm2)	Load (VA)			Designation of Load
		Poles (Nb)	Rate (A)			R	Y	B	
	M31	1P+N	20		4	1750			A/C Cardiac Consult. Exam. Room / Ecg (2)
	M32	1P+N	20		4		1500		A/C Echocardiography ultrasound
	M33	1P+N	20		4			1500	A/C Holter Monitoring
	M34	1P+N	20		4	1750			A/C Reception & waiting area/Cariology
	M35	1P+N	20		4		1750		A/C Cardiac Consult. Room / Stress Test
	M36	1P+N	20		4			1750	A/C Cardiac Consult. Exam. Room / Ecg (1)
	M37	1P+N	20		4	1500			A/C General consult Room 4
	M38	1P+N	20		4		1500		A/C General consult Room 5
	M39	1P+N	20		4			1500	A/C General consult Room 2
	M40	1P+N	20		4	1500			A/C General consult Room 1
	M41	1P+N	20		4		1500		A/C Pantry / Lounge
	M42	1P+N	20		4			1500	A/C Clean Utility
	M43	1P+N	20		4	1750			A/C Reception & Cas
	M44	1P+N	20		4		1500		A/C Supervisor's Office
	M45	1P+N	20		4			2500	A/C Public Pharmacy
	M46	1P+N	20		4	1750			A/C Electrical Room
	M47	1P+N	20		4		1750		A/C Server Room
		1P+N	20						SPARE
		1P+N	20						SPARE
		1P+N	20						SPARE
		1P+N	20						SPARE

Breaking Capacity: 6KA	Circuit Breaker (A)		Connected Load (VA)				Diversity Factor	Required Load (VA)
	Frame	Rate	R	Y	B	Total		
Lighting								
Socket								
Mechanical			21750	24000	23750	69500	0.7	48650
Misc / Kitchen								
Main Switch		160	21750	24000	23750	69500		48650