







































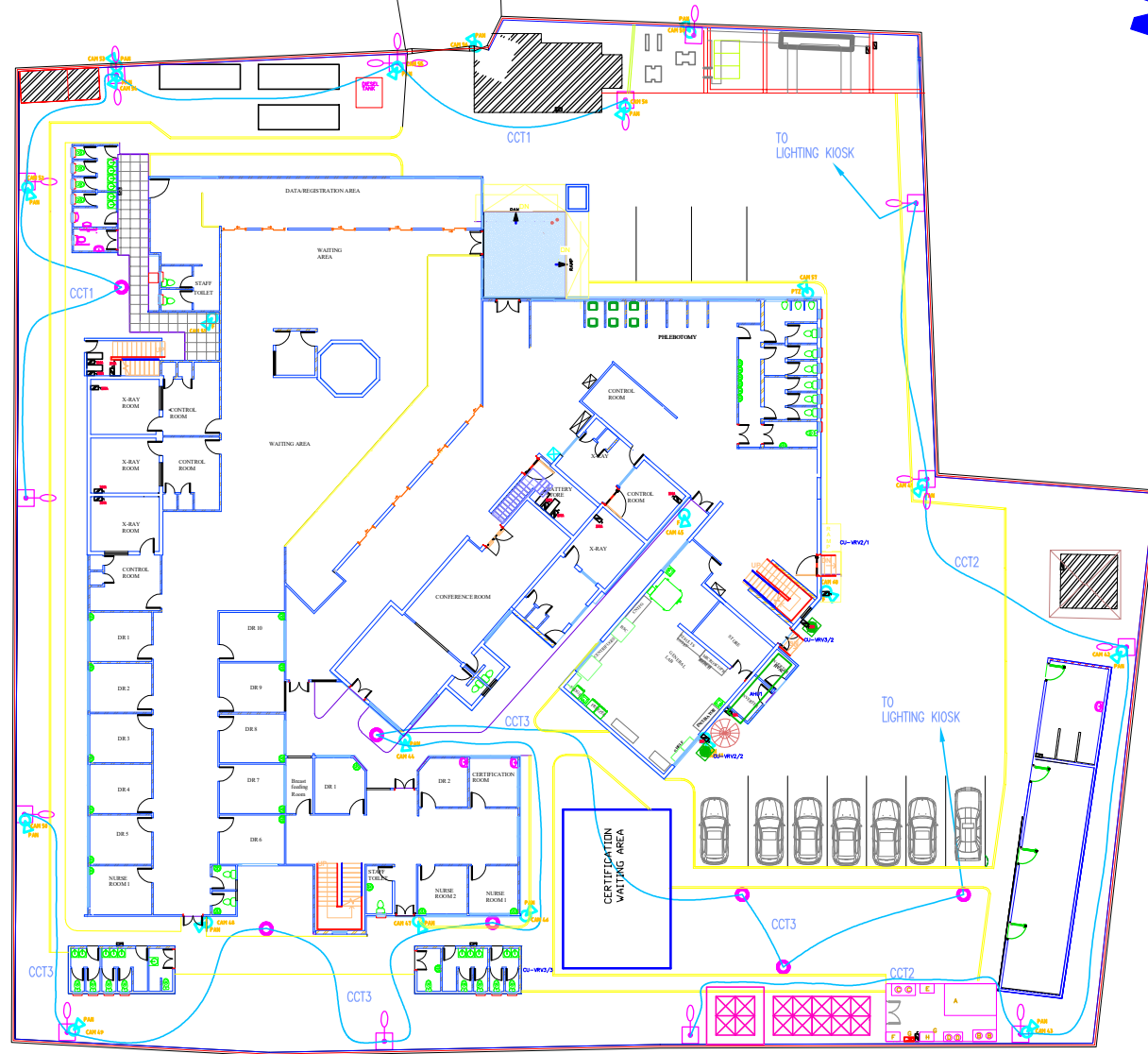


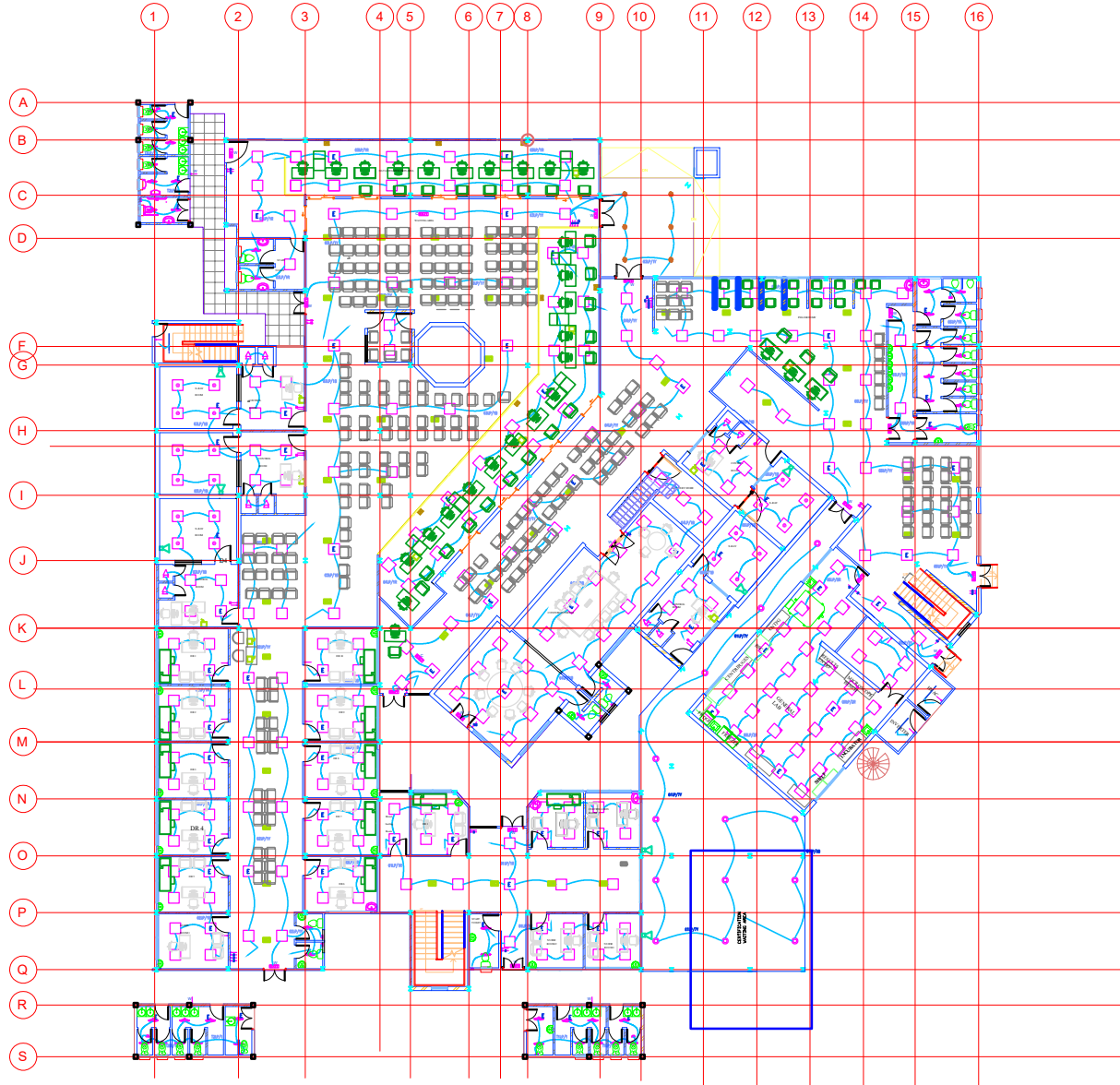
LIGHTING FITTINGS		ACCESSORIES		FIRE DETECTION AND ALARM SYSTEM	
<ul style="list-style-type: none"><li>LED FITTINGS MUST BE POWER FACTOR CORRECTED TO AT LEAST 90%.</li><li>ALL FITTINGS MUST BE SUPPLIED C/W LAMPS AND FINISH ACCESSORIES.</li></ul>		<ul style="list-style-type: none"><li>1A 1-WAY, 3-GANG SWITCH (PREFIX ADJACENT INDICATES NO. OF GRIDS. SINGLE GANGS DO NOT HAVE PREFIX) FLUSH MOUNTED, C/W WHITE MOULDED COVER PLATE e.g. LEGRAND 739191-135449</li><li>1B 1-WAY, 3-GANG SWITCH (PREFIX ADJACENT INDICATES NO. OF GRIDS.SINGLE GANGS DO NOT HAVE PREFIX) FLUSH MOUNTED, C/W WHITE MOULDED COVER PLATE e.g. LEGRAND 739191-755593</li><li>1A INTERMEDIATE SWITCH FLUSH MOUNTED, C/W WHITE MOULDED COVER PLATE e.g. LEGRAND</li><li>1A DIMMER SWITCH SUITABLE FOR DIMMING OF LED LIGHT FITTINGS. FLUSH MOUNTED, C/W WHITE MOULDED COVER PLATE e.g. LEGRAND</li><li>13A. UNSWITCHED CONNECTION UNIT C/W FLEX. OUTLET AND NEON e.g. LEGRAND 74368-75059</li></ul>		<ul style="list-style-type: none"><li>ANALOGUE ADDRESSABLE OPTICAL TYPE SENSOR e.g. GENT VIGILON.</li><li>ANALOGUE ADDRESSABLE OPTICAL TYPE WITH INTEGRAL SOUNDER AND STROBE e.g. GENT VIGILON.</li><li>ANALOGUE ADDRESSABLE HEAT SENSOR, FIXED TEMPERATURE TYPE e.g. GENT VIGILON.</li><li>ANALOGUE ADDRESSABLE BREAKGLASS CALLPOINT e.g. GENT VIGILON.</li><li>FAP 4-LOOP ANALOGUE ADDRESSABLE FIRE ALARM PANEL e.g. GENT VIGILON.</li></ul>	
 RECESSED DOWNLIGHT WITH 16W, 1600LM IP54 LED LAMP WITH EXTERNAL DRIVER. LEVANCE				SECURITY SYSTEM	
 DITTO BUT WITH BUILT-IN EMERGENCY KIT.				 N-ZONE INTELLIGENT SECURITY CONTROL PANEL. 'N' IS DEFINED ON DRAWINGS e.g. SCANTRONIC	
 RECESSED DOWNLIGHT WITH 12X2W, 1200LM LED LAMP E.G. THORN CHANCE.				 STROBE/SILENT ALARM	
 WALL MOUNTED EMERGENCY EXIT SIGN LUMINAIRE FOR MAINTAINED MODE WITH 3-HOUR DURATION, DIRECTIONAL, SIGN AND B/W LINEAR LED FITTING				 PUSH BUTTON PANIC ALARM e.g. SCANTRONIC	
 CEILING/RECESSED EMERGENCY EXIT SIGN LUMINAIRE FOR MAINTAINED MODE WITH 3-HOUR DURATION, DIRECTIONAL, SIGN AND B/W LINEAR LED FITTING				SURVEILLANCE SYSTEM	
 SURFACE 3 HOUR DURATION EMERGENCY LUMINAIRE FOR NON-MAINTAINED LIGHTING e.g. THORN 9451438				 WALL MOUNTED DOME TYPE HIGH RESOLUTION CAMERA IP BASED. PANAMORFIC TYPE E.G. AXIS.	
 SURFACE MOUNTED DECORATIVE LIGHT FITTING TO IP54 COMPLETE WITH 23W LED P44, LEVANCE				 WALL MOUNTED DOME TYPE HIGH RESOLUTION CAMERA IP BASED. FIXED TYPE E.G. AXIS.	
 400x60mm RECESSED MODULAR FITTING WITH 4xW, 3600LM LED FITTING E.G. THORN BETA 2				 WALL MOUNTED DOME TYPE HIGH RESOLUTION CAMERA IP BASED. PTZ TYPE E.G. AXIS.	
 DITTO BUT WITH BUILT-IN EMERGENCY KIT.				ACCESS CONTROL SYSTEM	
 400x60mm RECESSED MODULAR FITTING WITH 4xW, 3600LM LED FITTING SUITABLE FOR DIMMING E.G. THORN BETA 2				 PROXIMITY CARD READER	
 DITTO BUT WITH BUILT-IN EMERGENCY KIT.				 DOOR OPENING MAGNET	
 1200MM LENGTH B/W, 450LM LED TUBE, BARE BATTEN TYPE SURFACE MOUNT E.G. THORN POPPACK.				 DOOR MONITORING CONTACT	
 DITTO BUT WITH BUILT-IN EMERGENCY KIT.				 EXIT BUTTON	
 ONE BATTERY IS EITHER FOR 3000 LED LAMP OR 6-WATT STANDARD DOUBLE ENDED, DOUBLE ENDED POLYCARBONATE BEAM. SINGLE END DUAL QUANTITY ADAPTOR. E26 PROJECTION 3 DEGREE 90° BEAM SIDE ENTRY FOR ANY COLOUR WITH 10MM EDGE WITH 4 ACTIVE ADDRESSABLE 1200MM DUAL QUANTITY. THREE ADDRESSABLE E.G. THORN 9451438 OR 4 ADDRESSABLE 1200MM				 X-RAY ROOM WARNING LIGHT	
 201x100 BUT WITH TWIN FLOODLIGHTS				PUBLIC ADDRESS SYSTEM	
 201x100 BUT WITH THREE FLOODLIGHTS				 6W/100V RECESSED SPEAKER C/W INTEGRAL TRANSFORMER, FILTER ETC. RCF HS 1026-W	
 AVAILABLE IN STEEL OR CAST IRON FOR POST TOP MOUNTING WITH UV RESISTANT POLYCARBONATE LENS SHIELD AND BREAK-RESISTANT GLASS PROJECTOR DOWNLIGHT, POWDER COATED SILVER COLOUR, FINISHED TO IP64. FLAT TOP REFLECTOR WITH MULTIPLE RING INDIRECT LIGHTING, FOR USE WITH DUAL LAMP. AS THORNE AVENUE 10100 BUT WITH 2X CENTRAL DOWNLIGHT WITH SILVER EFFECT RADIATOR 43. THORNE AVENUE 10100 1000				 10W/100V WALL MOUNTED SPEAKER C/W INTEGRAL TRANSFORMER, FILTER ETC. RCF HS 1026-W	
				 DESK TOP CONTROL CONSOLE C/W MICROPHONE, KEYPAD CONTROL, ALARM BUTTON e.g. RCF BM 8001	
				 PUBLIC ADDRESS 500W/100V POWER AMPLIFIER C/W PREAMPLIFIER/MIXER/POWER SUPPLY UNIT, 12-ZONE SWITCHING UNIT ETC. MOUNTED IN SUITABLY SIZED RACK e.g. RCF SPA 8000	
		OVERHEAD CABLE TRAYS			
		 POWER CABLE TRAY SUSPENDED WITH SUITABLE BRACKETS IN CEILING VOID e.g. ABB-145E			
		 TELECOM CABLE TRAY SUSPENDED WITH SUITABLE BRACKETS IN CEILING VOID e.g. ABB-145E			
		TELEPHONE & DATA			
		 WALL MOUNTED SINGLE RJ45 OUTLET FOR DATA USING CAT 4 CABLEING SYSTEM. SYSTEMAX RANGE			
		 WALL MOUNTED SINGLE RJ45 OUTLET FOR VOICE USING CAT 4 CABLEING SYSTEM. SYSTEMAX RANGE			
		 WIRED OUTLET WIRELESS ACCESS POINT MOUNTED AT HIGH LEVEL ON WALL			
		 TELECOMMUNICATION CABINET (COMPRISING OF PATCH PANELS, SWITCHES etc.) SYSTEMAX RANGE			
		CENTRAL TELEVISION SYSTEM			
		 CO-AXIAL TV/FM SOCKET OUTLET e.g. LEGRAND			
		 TELEVISION SIGNAL SPLITTER/AMPLIFIER e.g. TELES			



NO.	REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	24 MAY 20	JIA
2	ISSUED FOR REVIEW	20 MAY 20	QJW
3	ISSUED FOR REVIEW	28 JUNE 20	QJW
4	ISSUED FOR TENDER	07 SEP 20	QJW
5	ISSUED FOR TENDER	15 SEP 20	QJW

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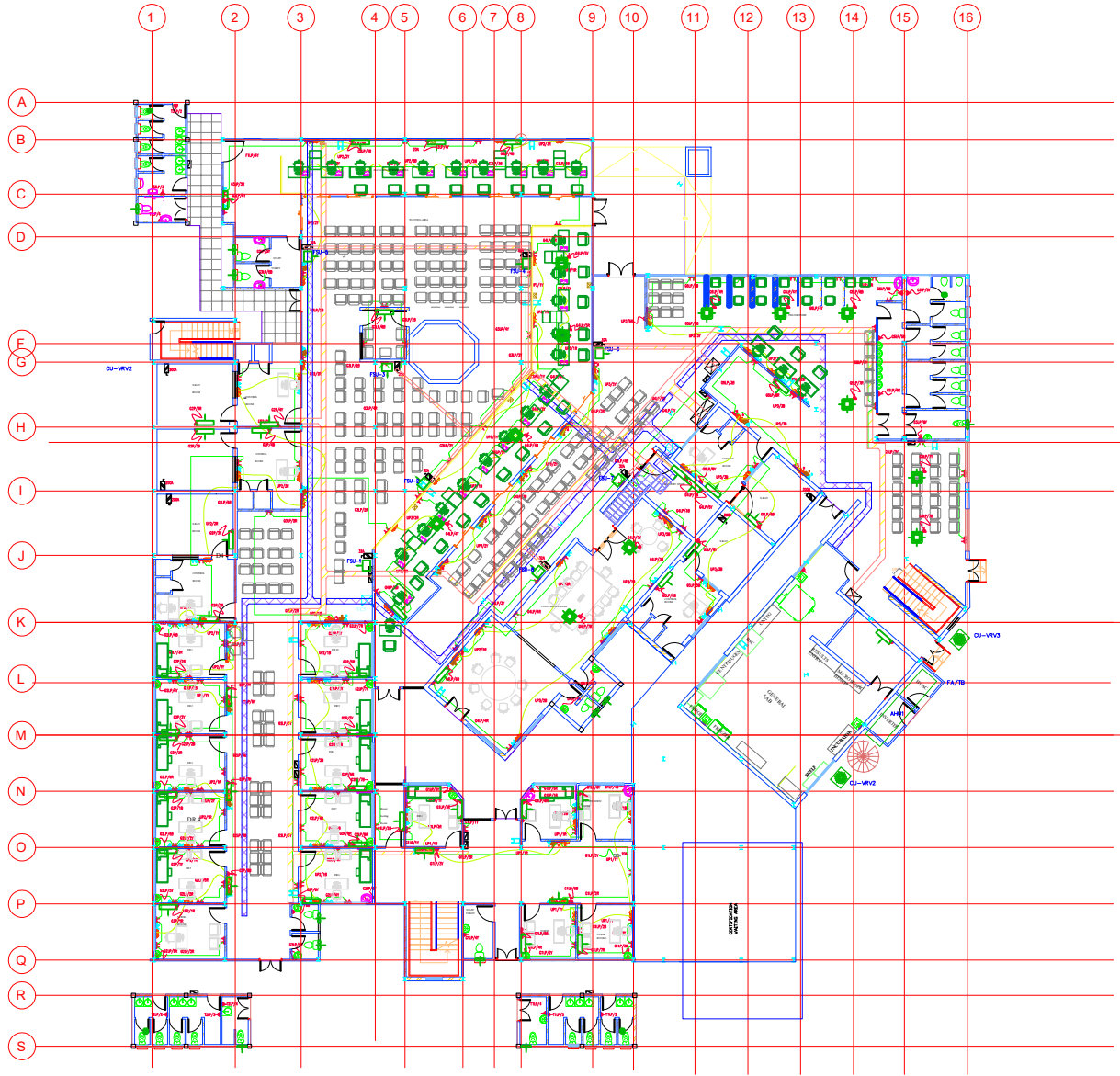
## NOTES



NO.	REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	24 MAR 23	AA
2	ISSUED FOR REVIEW	20 MAY 23	QJM
3	ISSUED FOR REVIEW	28 JUN 23	QJM
4	ISSUED FOR TENDER	01 SEPT 23	QJM
5	ISSUED FOR TENDER	15 SEPT 23	QJM

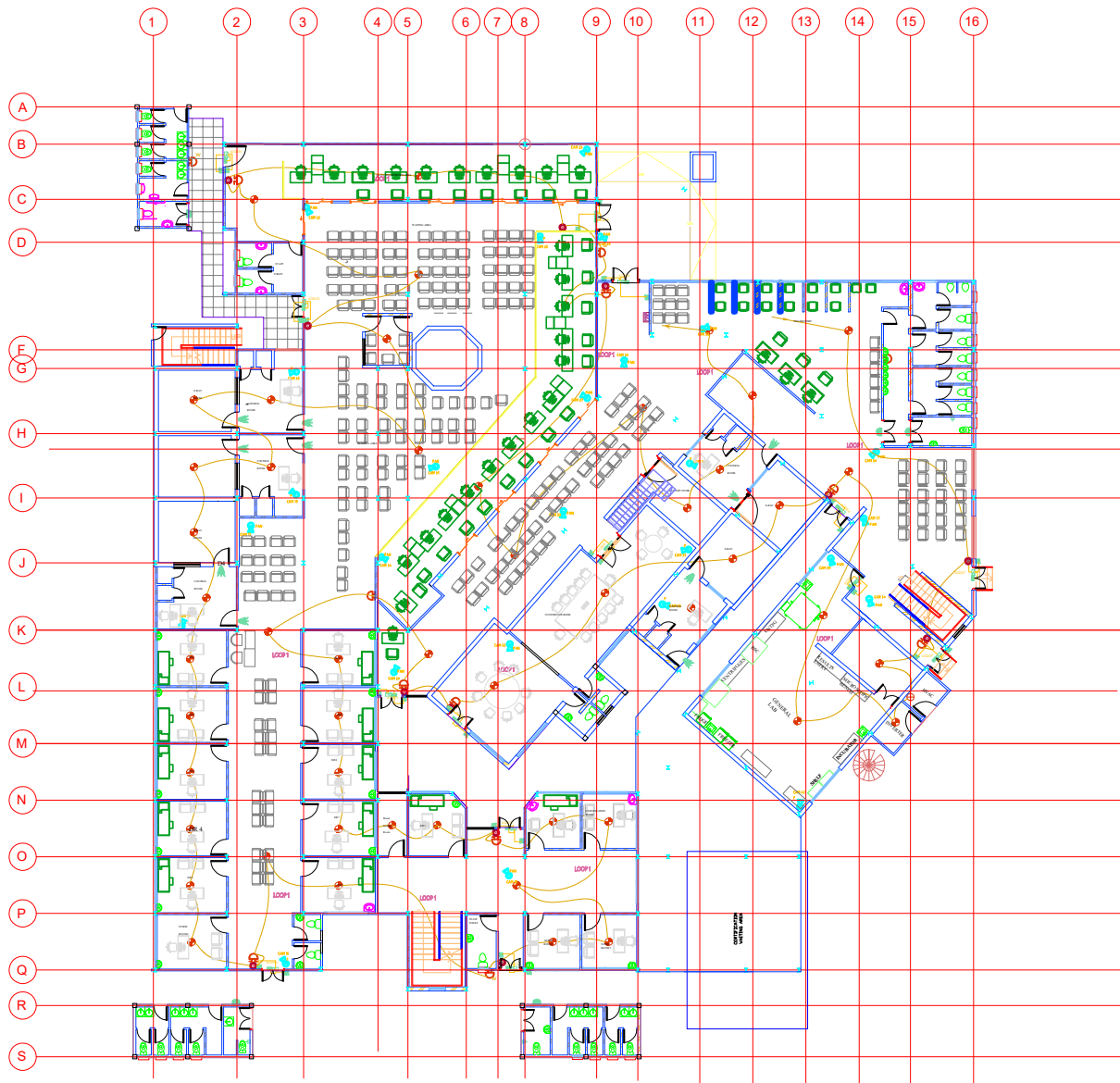
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SHEET CONTENT	GROUND FLOOR LIGHTING AND P.A.	SHEET NO.
SCALE	NIS	P E03
CHECKED	QJM / DRAWN	FILENAME
APPROVED	QJM / DATE	PROJECT NO.
		P067/E/03
		PJ2023



NO.	REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	24 MAR 23	AIA
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3	ISSUED FOR REVIEW	28 JUNE 23	QAW
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NOTES

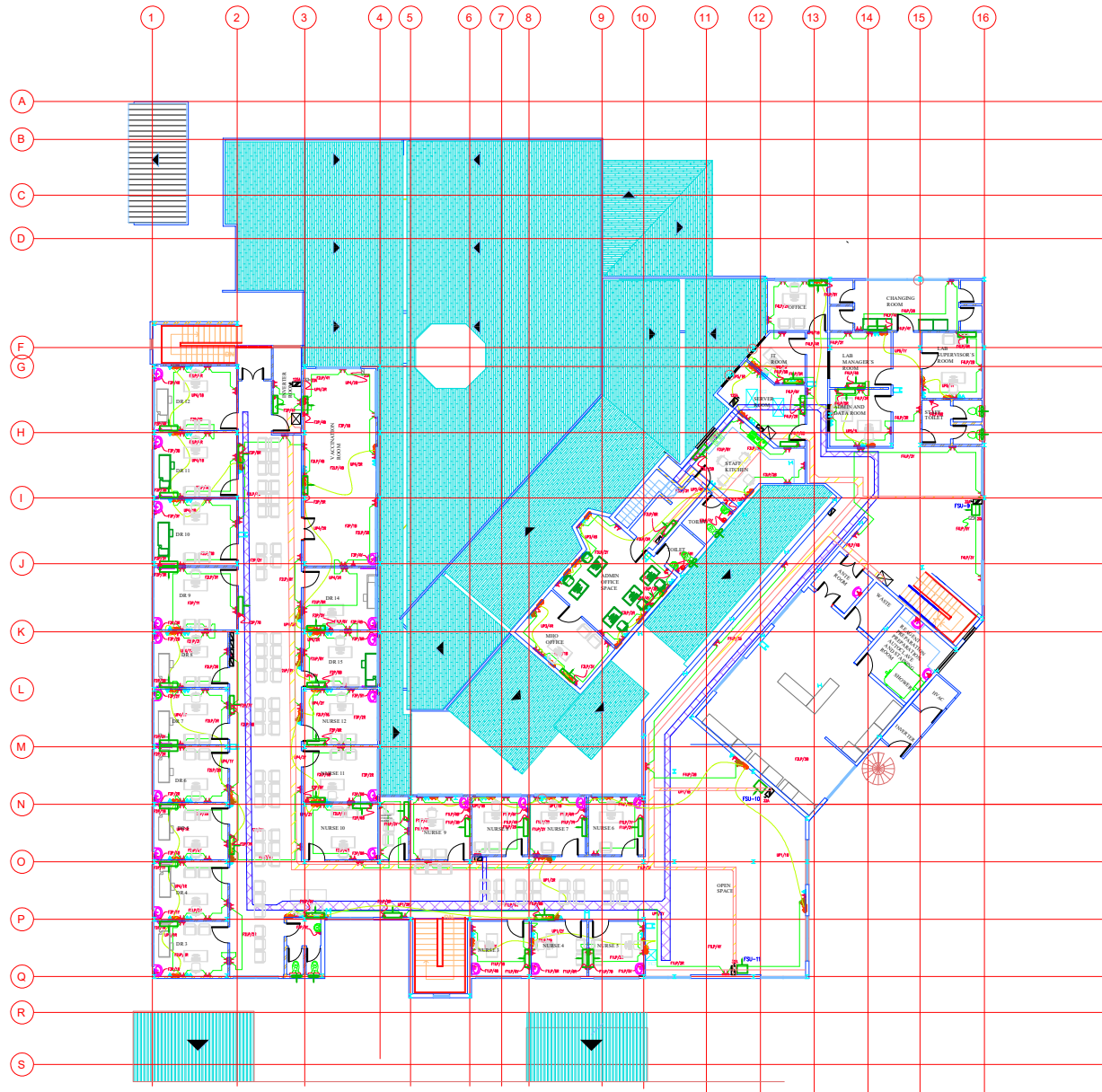
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2	ISSUED FOR REVIEW	20 MAY 20	QAW
3	ISSUED FOR REVIEW	02 JUNE 20	QAW
4	ISSUED FOR TENDER	07 SEPT 20	QAW
5	ISSUED FOR TENDER	10 SEPT 20	QAW

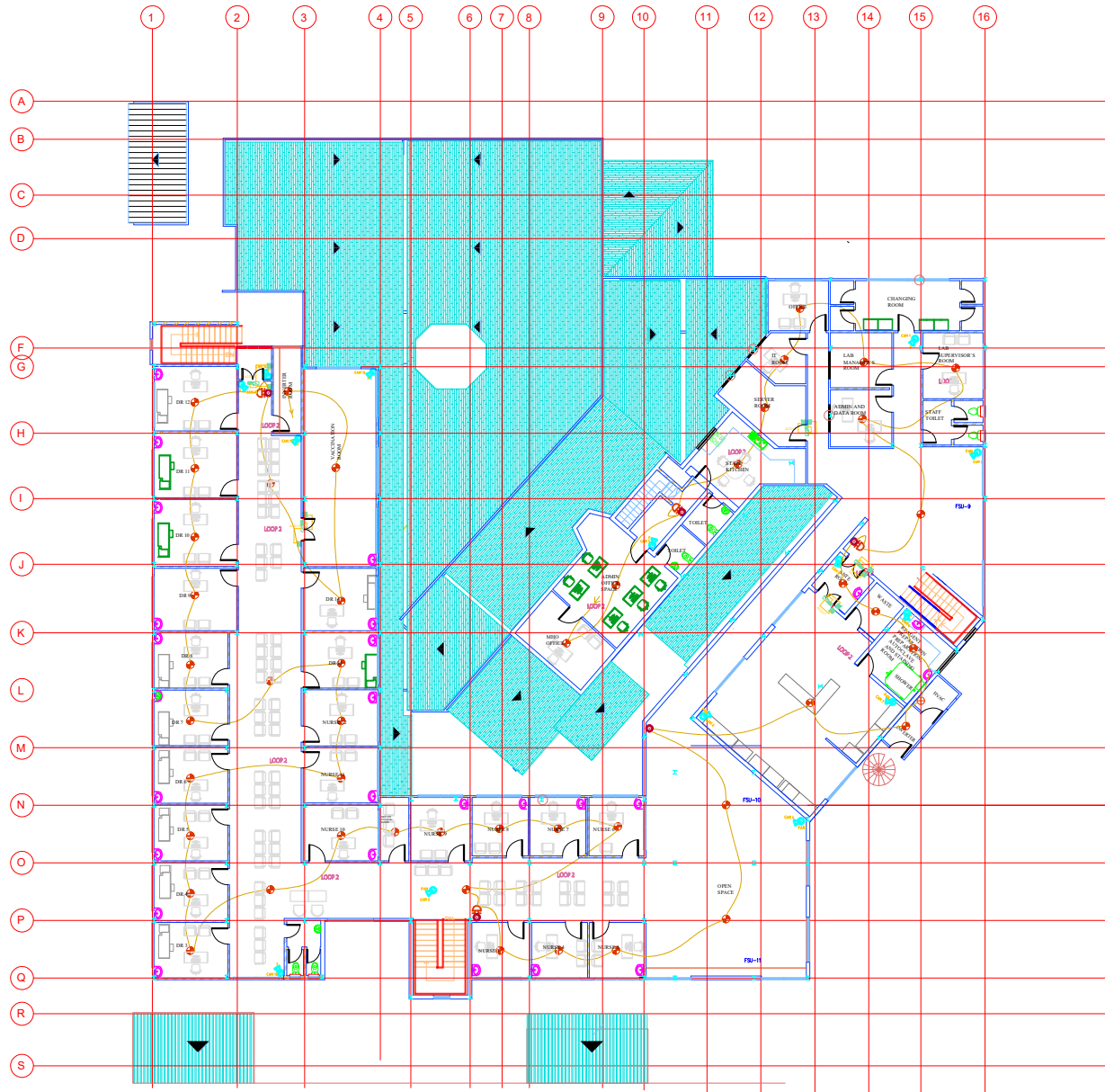
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SHEET CONTENT	GROUND FLOOR FIRE AND SECURITY	SHEET NO.
SCALE: NIS	FILE NAME: P967/E/05	P E05
CHECKED: QAW / DRAWN: QAW	APPROVED: QAW / DATE: 10 SEPT 20	PROJ. NO. PJ2023







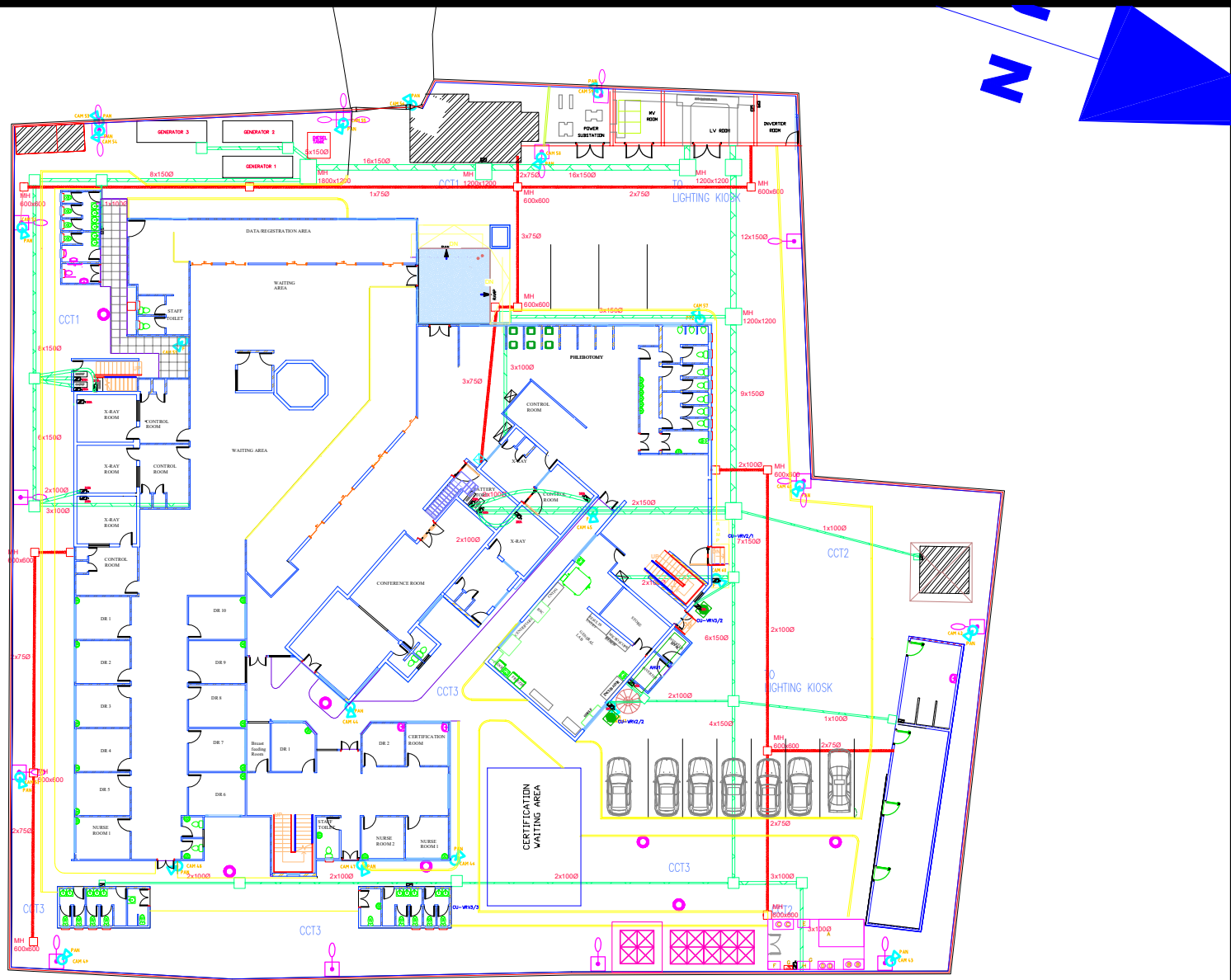


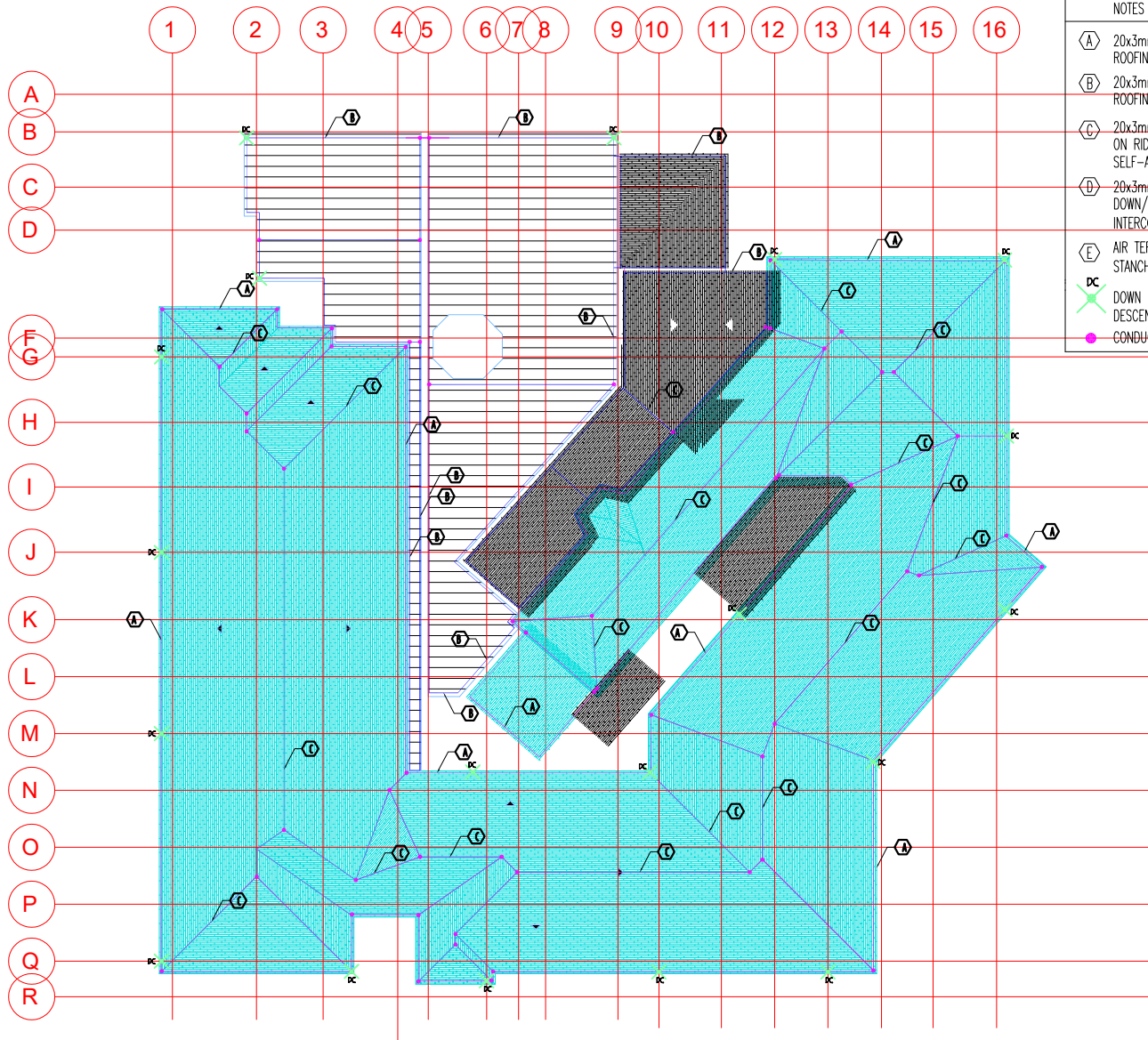
NO.	REVISIONS	DATE	BY
1	ISSUED FOR REVIEW	24 MAR 23	AW
2	ISSUED FOR REVIEW	20 MAY 23	QJW
3	ISSUED FOR REVIEW	28 JUNE 23	QJW
4	ISSUED FOR TENDER	01 SEPT. 23	QJW
5	ISSUED FOR TENDER	15 SEPT. 23	QJW

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SCALE	NIS	FILENAME	PROJ. NO.
CHECKED	QJW / DRAWN	P067/E/08	PJ2023
APPROVED	QJW / DATE		

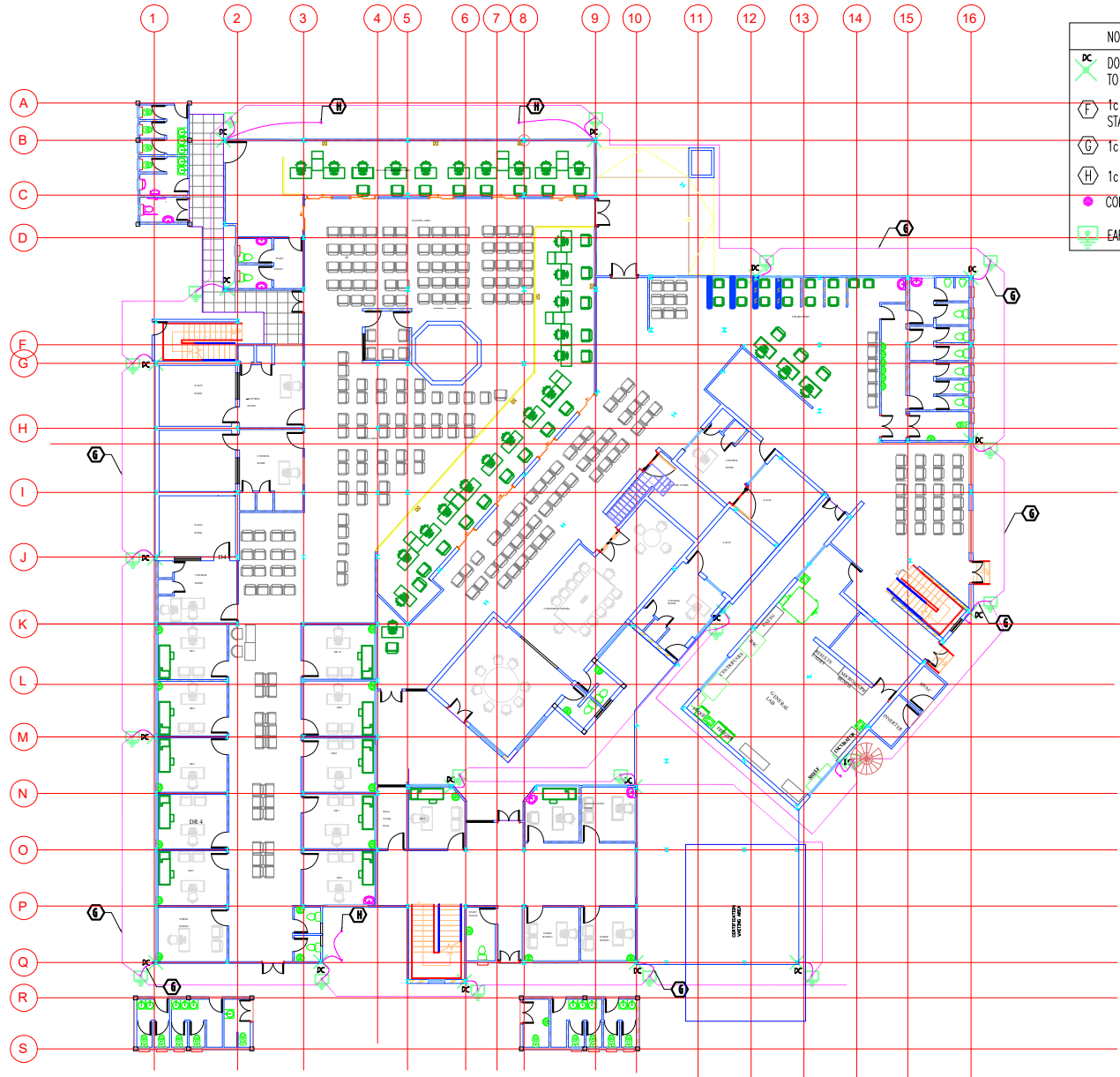






# NOTES FOR AIR TERMINATION:

- (A) 20x3mm PERIMETER AIR TERMINATION COPPER TAPE LAID ON UPPER ROOFING SHEETS WITH SELF-ADHESIVE SADDLES.
- (B) 20x3mm PERIMETER AIR TERMINATION COPPER TAPE LAID ON LOWER ROOFING SHEETS WITH SELF-ADHESIVE SADDLES.
- (C) 20x3mm INTERCONNECTING AIR TERMINATION COPPER TAPE LAID ON RIDGE OF UPPER/LOWER ROOFING SHEETS WITH SPECIAL SELF-ADHESIVE SADDLES.
- (D) 20x3mm INTERCONNECTING AIR TERMINATION COPPER TAPE DROPS DOWN/BELOW TO LOWER ROOF TO CONNECT TO PERIMETER TAPE & INTERCONNECTING COPPER TAPES LAID ON ROOFING SHEETS.
- (E) AIR TERMINATION TAPES DROPS DOWN TO DOWN CONDUCTOR LAID ON STANCHIONS BELOW.
- DC DOWN CONDUCTOR WITH SADDLES CALD WELDED TO STEEL STANCHIONS DESCENDING TO EARTH TERMINATION AT GROUND LEVEL BELOW.
- CONDUCTOR DROPS, RISES OR JUNCTION POINT.



# NOTES FOR EARTH TERMINATION:

- DC DOWN CONDUCTOR WITH SADDLES CALD WELDED TO STEEL STANCHIONS TO CONNECT TO EARTH TERMINATION/PIT AT GROUND LEVEL BELOW.
- F 1c 70mm<sup>2</sup> BCEW CONNECTS TO EARTH PIT ADJACENT TO STEEL STANCHION VIA TEST CLAMP CALD WELDED TO STANCHION.
- G 1c 70mm<sup>2</sup> BCEW RING EARTH ELECTRODE.
- H 1c 70mm<sup>2</sup> BCEW EQUIPOTENTIAL BOND TO OUTDOOR HVAC EQUIPMENT.
- CONDUCTOR DROP OR JOINT.
- EARTH TERMINATION.