



ELECTRICAL DRAWINGS

Palestine Hospital

Governarate : Sana'a

Construction of Administration Building and Warehouse

Electrical Drawing Index

NO.	NO. of D	Name of Drawing
		Electrical Drawing Index
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DRAWING NO.	E100.	Sheet Name:	
DRAWING REVISION	V/1	Electrical Drawing Index	
DATE:	Apr. 2024		
SCALE:			
Project Title:		Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a	
International Medical Corps IMC -Sana'a Office منظمة الهيئة الدولية - مكتب صنعاء			Republic of Yemen MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS

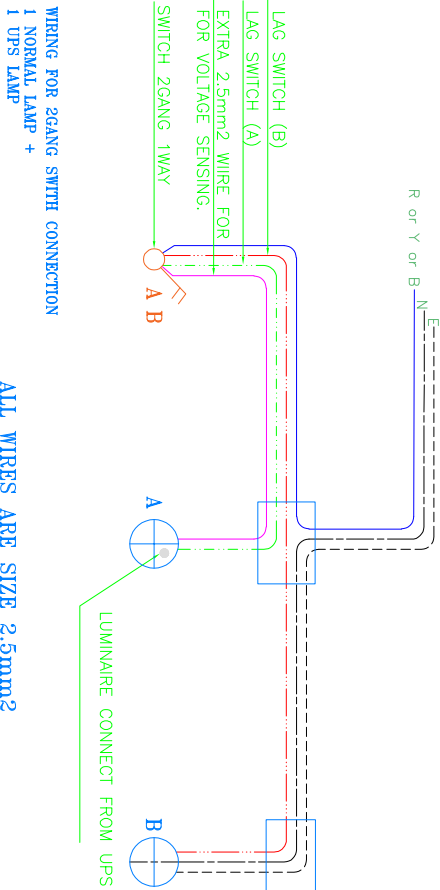


ELECTRICAL LUMINAIRES LEGEND

TYPE	SYMBOL	LUMINAIRE DESCRIPTION
L1		SURFACE CEILING MOUNTED LIGHTING LUMINAIRE WITH LED LAMP 1x20W, 2000lm - IP44 FOR BATHROOMS.
F2		HANGING LIGHT LIGHTING LUMINAIRE WITH LED LAMP 28W
L3		60CM X 60CM RECESSED CEILING MOUNTED LIGHTING LUMINAIRE WITH LED LAMP 36W-40W, 3600lm.
F4		EXHAUST FAN POINT, 150CM
L3		DITTO AS L3, BUT CONNECT FROM UPS
L1		DITTO AS L1, BUT CONNECT FROM UPS
F7		EMERGENCY EXIT SIGN ONE SIDED
F8		EMERGENCY EXIT SIGN DOUBLE SIDED

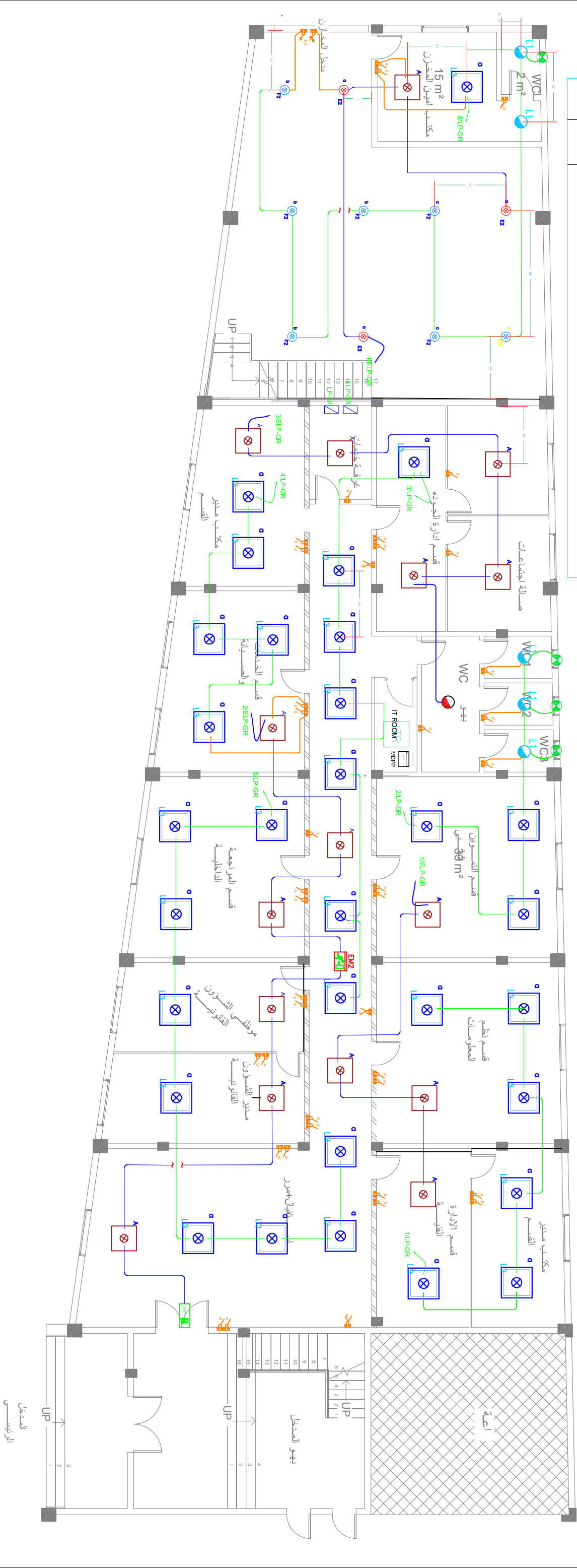
LIGHTING CONTROL SYSTEM LEGEND

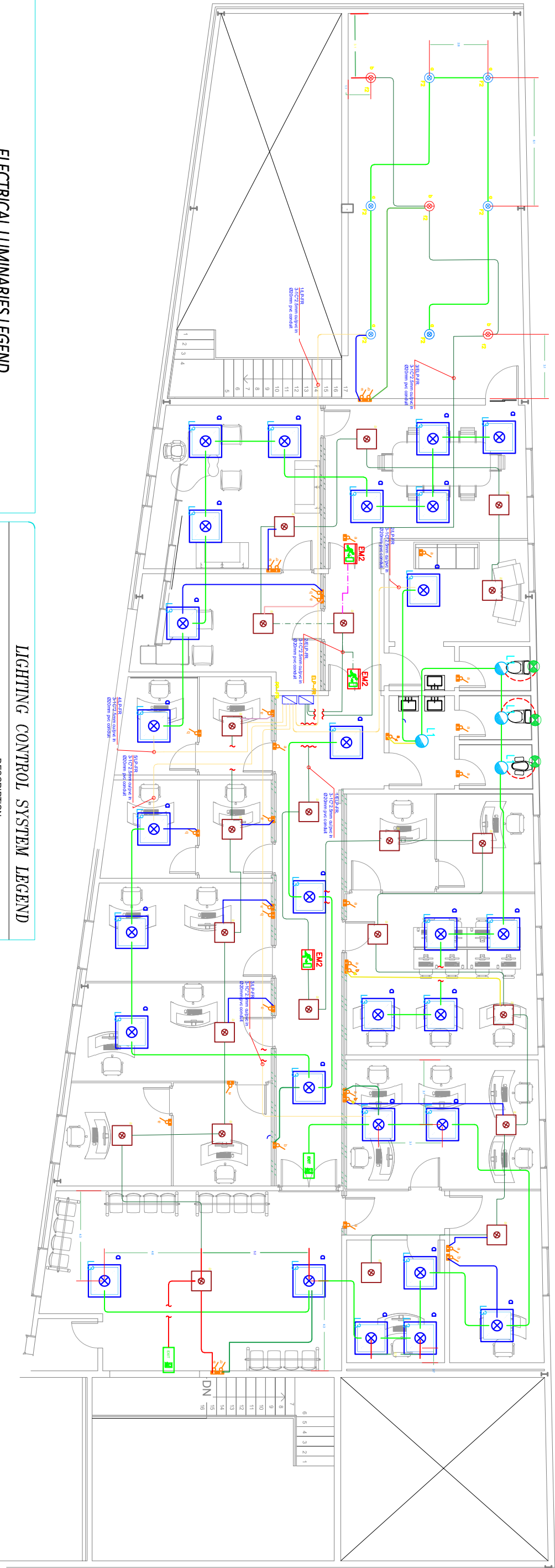
TYPE	SYMBOL	DESCRIPTION
		10A ONE GANG - ONE WAY LIGHTING SWITCH.
		10A TWO GANGS - ONE WAY LIGHTING SWITCH.
		10A THREE GANGS - ONE WAY LIGHTING SWITCH.
		10A ONE GANG - TWO WAY LIGHTING SWITCH.
		10A TWO GANGS - TWO WAY LIGHTING SWITCH.
		10A THREE GANGS - TWO WAY LIGHTING SWITCH.
		10A ONE GANG - INTERMEDIATE LIGHTING SWITCH.
		10A TWO GANGS - INTERMEDIATE LIGHTING SWITCH.
		10A SINGLE & TOW GANGS LIGHTING SWITCH-IP65.
		GRID SWITCH OF 18 GANGS.
		POWER OUTLET FOR EXHAUST FAN.
		NORMALLY CLOSE PUSHBUTTON.



WIRING FOR 2GANG SWITCH CONNECTION
1 NORMAL LAMP +
1 UPS LAMP

ALL WIRES ARE SIZE 2.5mm²



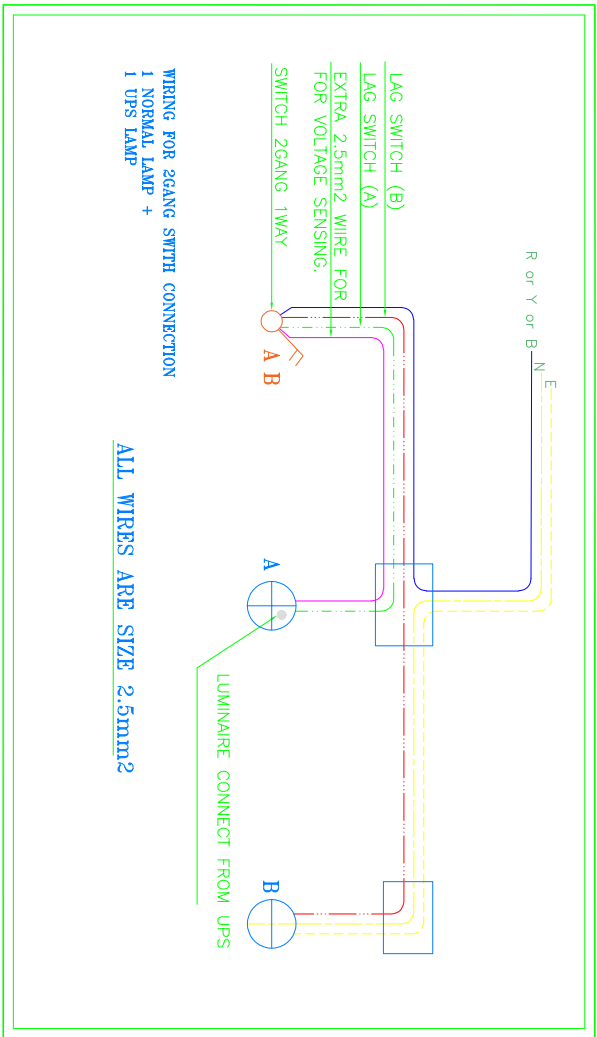


ELECTRICAL LUMINAIRES LEGEND

TYPE	SYMBOL	LUMINAIRE DESCRIPTION
L1		SURFACE CEILING MOUNTED LUMINAIRE WITH LED LAMP 1x320W ,2000lm - IP44 FOR BATHROOMS.
F2		HANGINGLIGHT LIGHTING LUMINAIRE WITH LED LAMP -28W
L3		60CM X 60CM RECESSED CEILING MOUNTED LIGHTING LUMINAIRE WITH LED LAMP 36W 40W, 3600lm.
F4		Exhaust fan point. 150CFM
F5		120CMX30CM RECESSED CEILING MOUNTED LIGHTING LUMINAIRE WITH LED LAMP 40W IP65.
F6		DITTO, BUT ANTIBACTERIAL IP44.
F7		DITTO, BUT ANTIBACTERIAL IP55.
F8		60CM X 60CM RECESSED CEILING MOUNTED LIGHTING LUMINAIRE WITH LED LAMP 40W AND WITH COMPONENTS NON FERROUS FOR MAGNETIC IMAGING AREAS.

LIGHTING CONTROL SYSTEM LEGEND

TYPE	SYMBOL	DESCRIPTION
		10A ONE GANG - ONE WAY LIGHTING SWITCH.
		10A TWO GANGS - ONE WAY LIGHTING SWITCH.
		10A THREE GANGS - ONE WAY LIGHTING SWITCH.
		10A ONE GANG - TWO WAY LIGHTING SWITCH.
		10A TWO GANGS - TWO WAY LIGHTING SWITCH.
		10A THREE GANGS - TWO WAY LIGHTING SWITCH.
		10A ONE GANG - INTERMEDIATE LIGHTING SWITCH.
		10A TWO GANGS - INTERMEDIATE LIGHTING SWITCH.
		10A SINGLE & TOW GANGS LIGHTING SWITCH-IP65.
		GRID SWITCH OF 18 GANGS.
		POWER OUTLET FOR EXHAUST FAN.
		NORMALLY CLOSE PUSHBUTTON.



DRAWING NO.

E102.

DRAWING REVISION

V/1

DATE:

Apr. 2024

SCALE:

Sheet Name:

LIGHTING SYSTEM -FIRST FLOOR

Project Title:

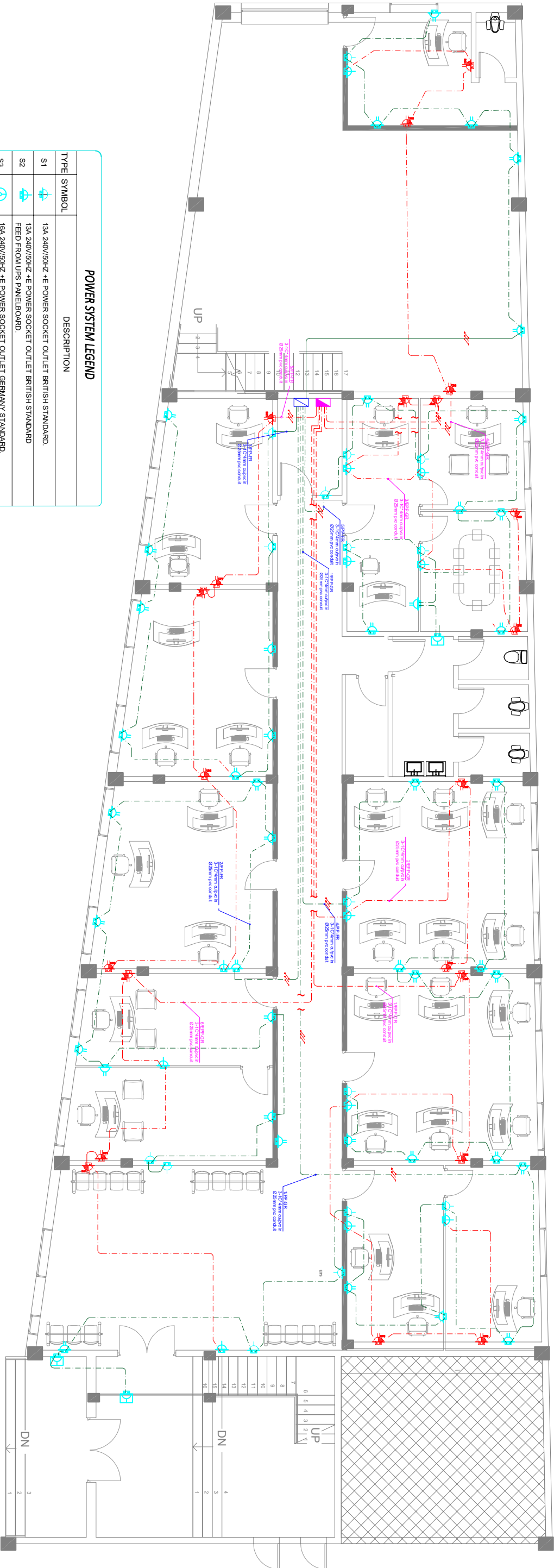
Construction of Administration Building and Warehouse
at The Palestine Hospital -Sana'a

IMC -Sana'a Office

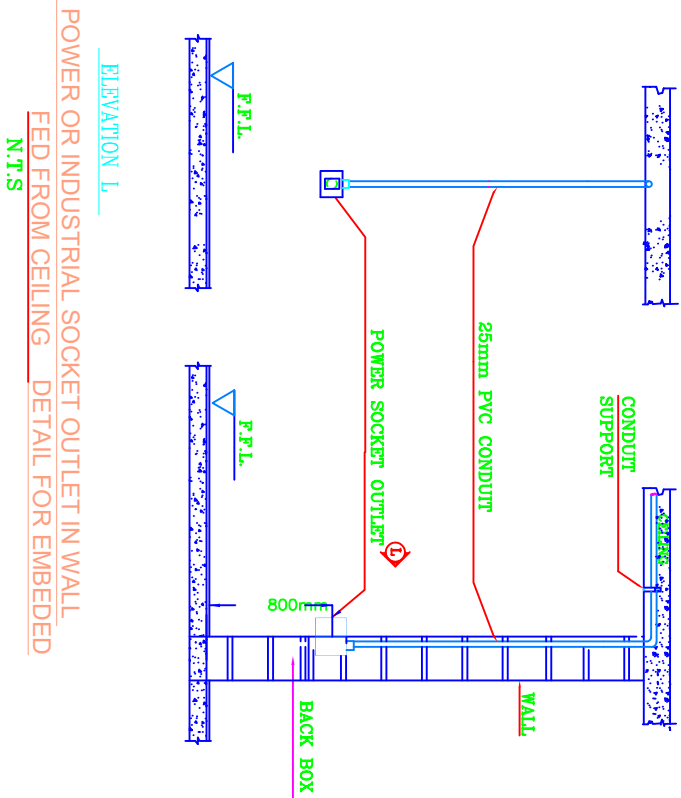
مظفة الهيئة الوطنية - مكتب صنعاء

Republic of Yemen

MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH
PLANNING AND DEVELOPMENT SECTOR GENERAL
ADMINISTRATION OF ENGINEERING AFFAIRS



POWER SYSTEM LEGEND		
TYPE	SYMBOL	DESCRIPTION
S1		13A 240V/50Hz +E POWER SOCKET OUTLET BRITISH STANDARD.
S2		13A 240V/50Hz +E POWER SOCKET OUTLET BRITISH STANDARD FEED FROM UPS PANELBOARD.
S3		16A 240V/50Hz +E POWER SOCKET OUTLET GERMANY STANDARD.
S4		16A 240V/50Hz +E POWER SOCKET OUTLET GERMANY STANDARD FEED FROM UPS PANELBOARD.
S5		13A 240V/50Hz +E DUPLEX SOCKET OUTLET BRITISH STANDARD.
S6		13A 240V/50Hz +E DUPLEX SOCKET OUTLET BRITISH STANDARD FEED FROM UPS PANEL BOARD.
S7		16A 240V/50Hz +E SINGLE SOCKET OUTLET GERMANY STANDARD FLOOR MOUNTED -IP65.
S8		4Pin 380V/50Hz INDUSTRIAL POWER SOCKET OUTLET.
S9		13A 240V/110V-50Hz +E SHAVER SOCKET OUTLET.
S10		380V/50Hz ISOLATOR-4P IP65.
S11		220V/50Hz ISOLATOR-DP IP65.
S12		220V/50Hz ISOLATOR-DP WITH MCB PROTECTION IP65 FOR FAN COOL UNIT. CEILING MOUNTED OR WALL ABOVE FALSE CEILING.
S13		20A 240V/50Hz 2P+E ELECTRICAL WATER HEATER SWITCH MOUNTED AT HEIGHT 1200MM.
S14		BED HEAD UNIT
S15		MEDICAL ISOLATION POWER SYSTEM PANEL
S16		AUTOMATIC TRANSFER SWITCH.
S17		AUTO-SYNCHRONIZING PANEL.
S18		PANEL-BOARD.
S19		AUTO-SYNCHRONIZING PANEL.
S20		MAIN DISTRIBUTION BOARD.
S20		PHOTO CELL. 10A 220V.



DRAWING NO.

E103.

DRAWING REVISION

V1

DATE:

Apr. 2024

SCALE:

Sheet Name:

POWER SOCKETS -GROUND FLOOR

Project Title:

Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a

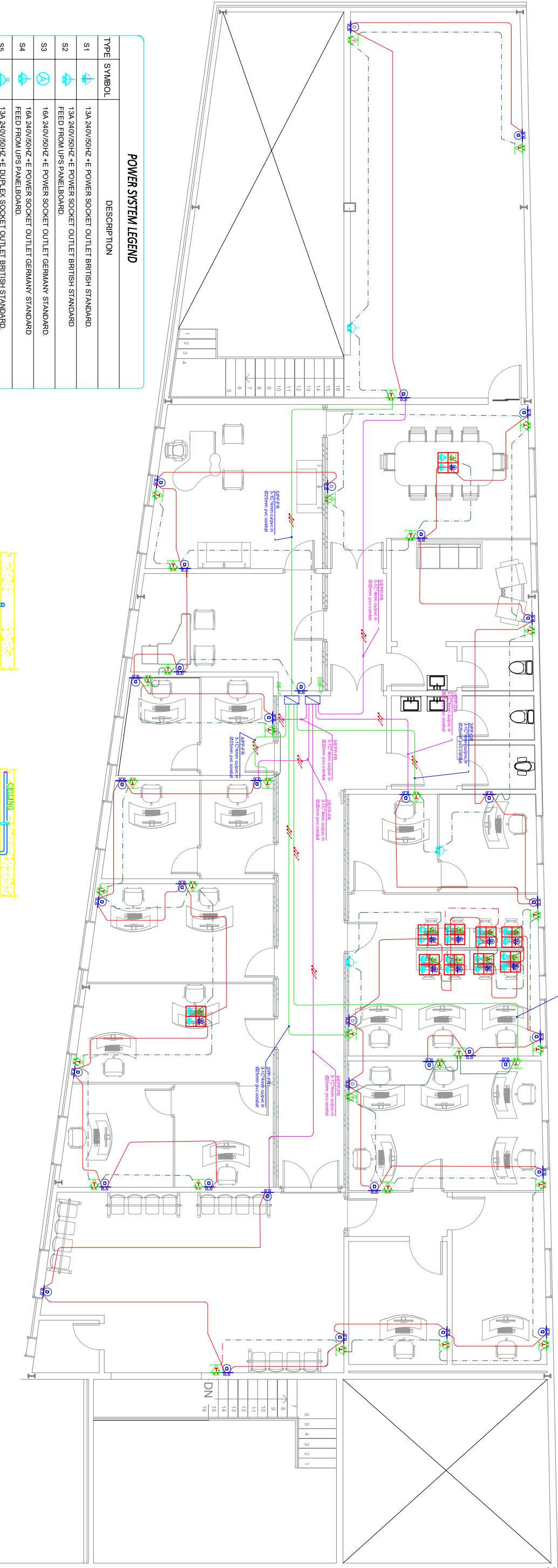
International Medical Corps

IMC -Sana'a Office

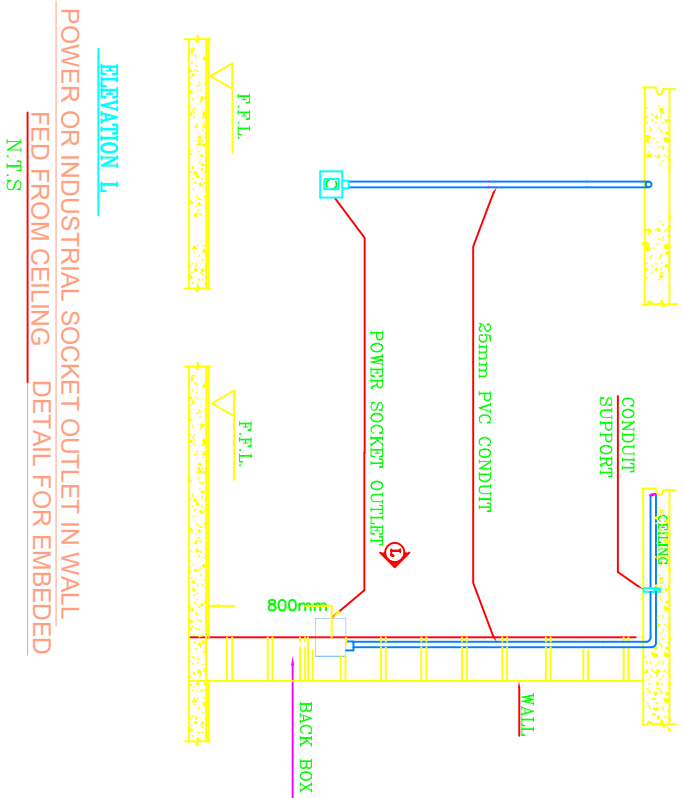
منظمة الصحة العالمية - مكتب صنعاء

Republic of Yemen

MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS



POWER SYSTEM LEGEND	
TYPE	SYMBOL
S1	13A 240V/50Hz +E POWER SOCKET OUTLET BRITISH STANDARD.
S2	13A 240V/50Hz +E POWER SOCKET OUTLET BRITISH STANDARD FEED FROM UPS PANELBOARD.
S3	16A 240V/50Hz +E POWER SOCKET OUTLET GERMANY STANDARD.
S4	16A 240V/50Hz +E POWER SOCKET OUTLET GERMANY STANDARD FEED FROM UPS PANELBOARD.
S5	13A 240V/50Hz +E DUPLEX SOCKET OUTLET BRITISH STANDARD.
S6	13A 240V/50Hz +E DUPLEX SOCKET OUTLET BRITISH STANDARD FEED FROM UPS PANEL BOARD.
S7	16A 240V/50Hz +E SINGLE SOCKET OUTLET GERMANY STANDARD FLOOR MOUNTED -IP65.
S8	4Pins 380V/50Hz INDUSTRIAL POWER SOCKET OUTLET.
S9	13A 240V/110V/50Hz +E SHAVER SOCKET OUTLET.
S10	380V/50Hz ISOLATOR-4P IP65.
S11	220V/50Hz ISOLATOR-DP IP65.
S12	220V/50Hz ISOLATOR-DP WITH MCB PROTECTION IP65 FOR FAN COOL UNIT, CEILING MOUNTED OR WALL ABOVE FALSE CEILING.
S13	20A 240V/50Hz 2P+E ELECTRICAL WATER HEATER SWITCH MOUNTED AT HEIGHT 1200MM.
S14	BED HEAD UNIT
S15	MEDICAL ISOLATION POWER SYSTEM PANEL.
S16	AUTOMATIC TRANSFER SWITCH.
S17	AUTO-SYNCHRONIZING PANEL.
S18	PANEL-BOARD.
S19	AUTO-SYNCHRONIZING PANEL.
S20	MAIN DISTRIBUTION BOARD.
S20	PC PHOTO CELL, 10A 220V.



DRAWING NO.

E104.

DRAWING REVISION

V1

DATE:

Apr. 2024

SCALE:

Sheet Name:

POWER SOCKETS -FIRST FLOOR

Project Title:

Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a















International Medical Corps

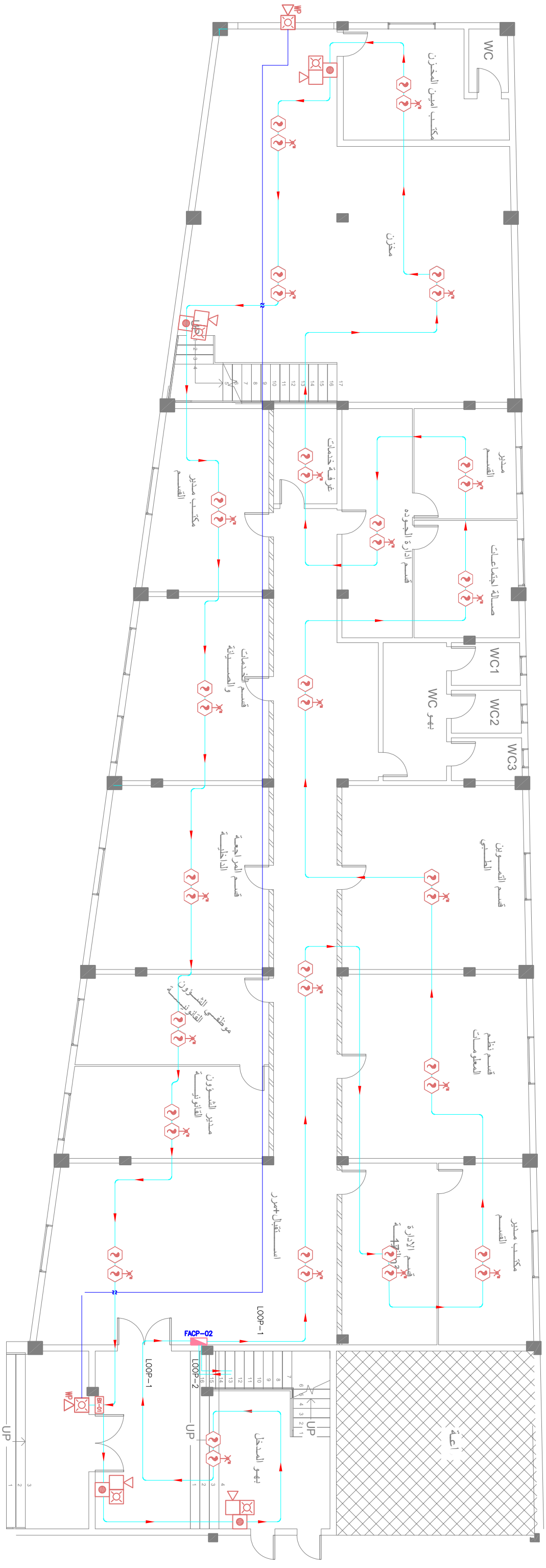
IMC -Sana'a Office

مظفمة الهيئة الدولية - مكتب صنعاء
















Republic of Yemen

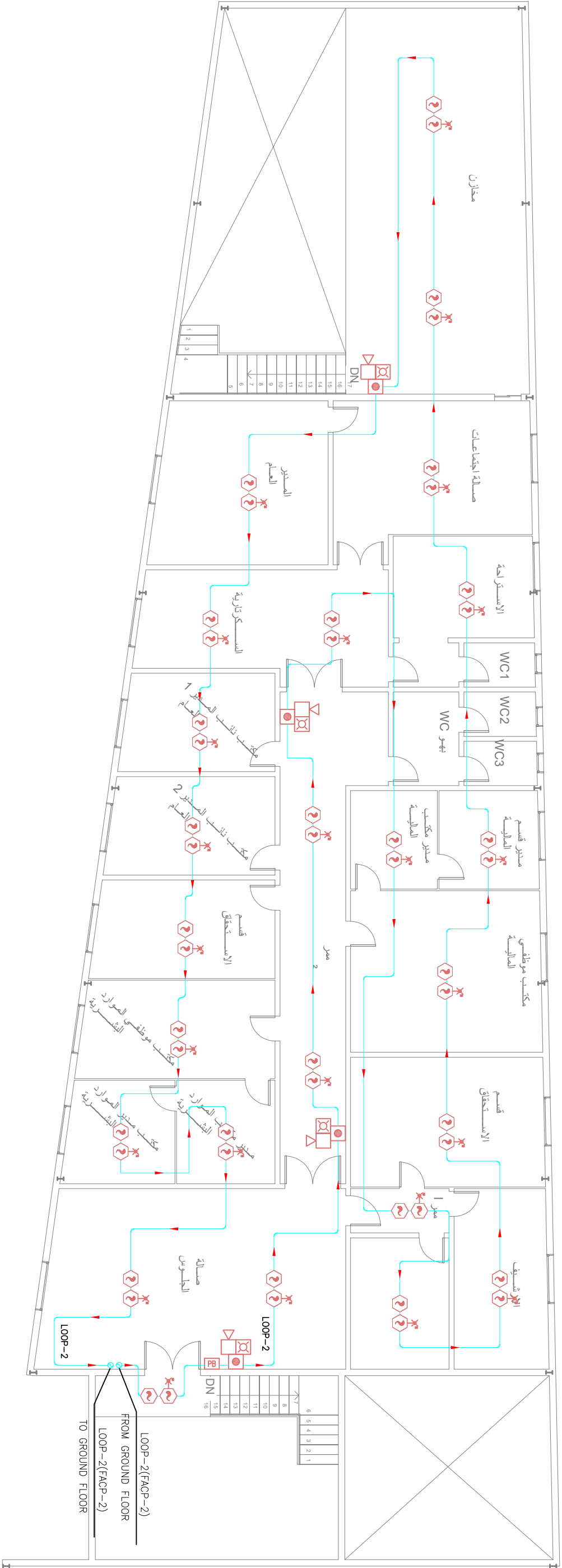
MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS


ADMINISTRATION and & store	
SYMBOLS	DESCRIPTION
	ADDRESSABLE FIRE ALARM CONTROL PANEL (FACP-04)
	ADDRESSABLE OPTICAL SMOKE DETECTOR
	REMOTE INDICATOR
	ADDRESSABLE HEAT DETECTOR
	ADDRESSABLE MANUAL CALL POINT
	ADDRESSABLE SOUNDER
	ADDRESSABLE FLASHER
	SOUNDER WITH FLASHER (WEATHER PROOF)
	OUTPUT/INPUT MODULE
	OUTPUT MODULE
	FIRE ALARM PULLBOX
	FIRE RATED ARMoured CABLE 2C X 1.5mm ² SIGNALING LINE CIRCUIT
	FIRE RATED ARMoured CABLE 2C X 2.5mm ² FOR POWER (24V)
	FIRE RATED ARMoured CABLE 2C X 2.5mm ² VISUAL NAC CIRCUIT
	SADDLE CLAMP SET (SS SCREW AND WALL PLUG)

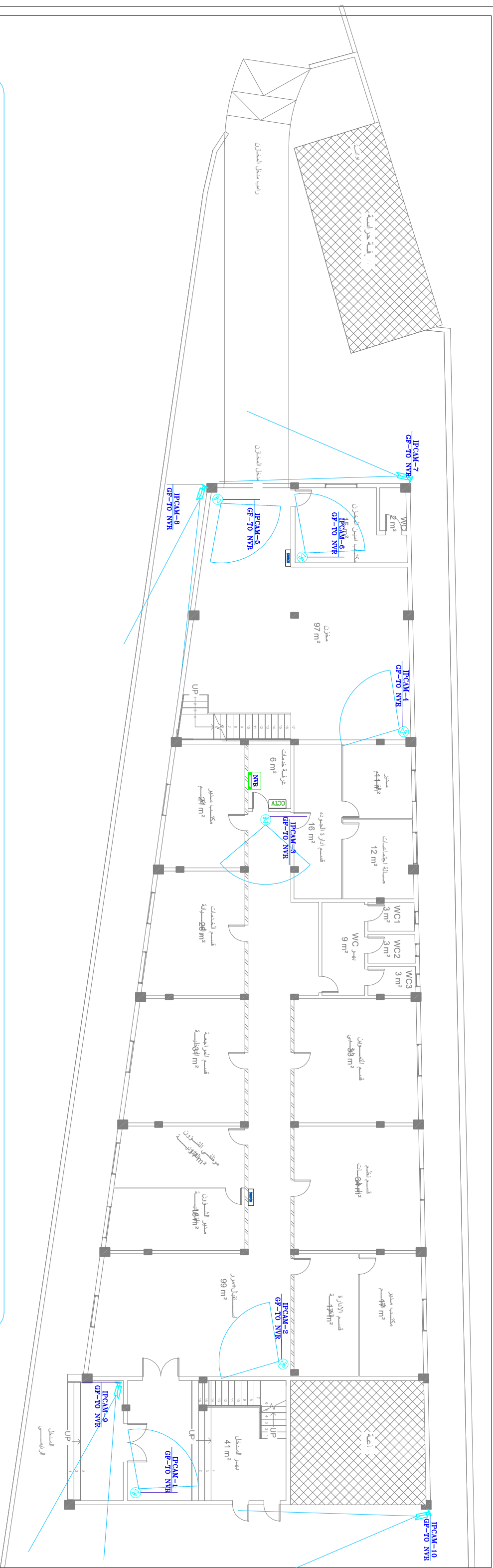







DRAWING NO.	E105.	Sheet Name:	Project Title:
DRAWING REVISION	V/1	FIRE ALARM SYSTEM -GROUND FLOOR	
DATE:	Apr. 2024		
SCALE:			
		Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a	Project Title:
		إنشاء مبنى الإدارة والمستودع في مستشفى فلسطين صنعاء	
		International Medical Corps IMC -Sana'a Office	Project Title:
		منظمة الهيئة الدولية - مكتب صنعاء	
		Republic of Yemen MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS	Project Title:

ADMINISTRATION and & store	
SYMBOLS	DESCRIPTION
	ADDRESSABLE FIRE ALARM CONTROL PANEL (FACP-04)
	ADDRESSABLE OPTICAL SMOKE DETECTOR
	REMOTE INDICATOR
	ADDRESSABLE HEAT DETECTOR
	ADDRESSABLE MANUAL CALL POINT
	ADDRESSABLE SOUNDER
	ADDRESSABLE FLASHER
	SOUNDER WITH FLASHER (WEATHER PROOF)
	OUTPUT/INPUT MODULE
	OUTPUT MODULE
	FIRE ALARM PULLBOX
	FIRE RATED ARMoured CABLE 2C X 1.5mm² SIGNALING LINE CIRCUIT
	FIRE RATED ARMoured CABLE 2C X 2.5mm² FOR POWER (24V)
	FIRE RATED ARMoured CABLE 2C X 2.5mm² VISUAL NAC CIRCUIT
	SADDLE CLAMP SET (SS SCREW AND WALL PLUG)



DRAWING NO.	E106.	Sheet Name:	Project Title:	Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a	IMC -Sana'a Office	International Medical Corps	منظمة الصحة الدولية - مكتب صنعاء	Republic of Yemen MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS	
DRAWING REVISION	V1								
DATE:	Apr. 2024								
SCALE:									




CCVT SYSTEMS LEGEND		
TYPE	SYMBOL	DESCRIPTION
		INDOOR DOME CAMERA.
		FIXED OUTDOOR TYPE NORMAL CAMERA.
		NETWORK VIDEO RECORDER (NVR) WITH POE SWITCH CONTAINED IN XXU RACK.
		POE SWITCH
		CCTV CONSOLE & MONITOR EQUIPMENT

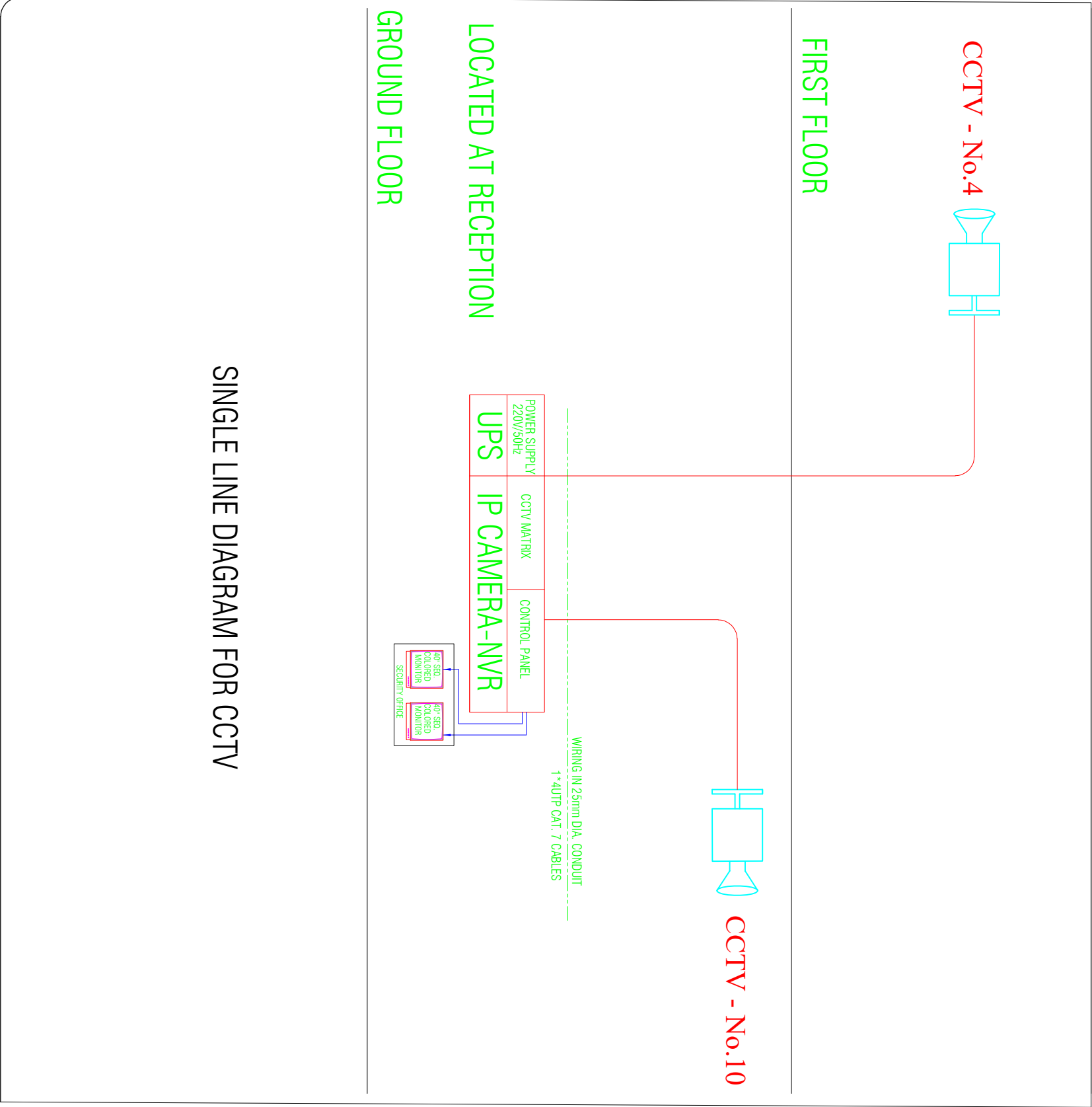
DRAWING NO.	E107.	Sheet Name:	
DRAWING REVISION	V/1	Project Title:	
DATE:	Apr. 2024	Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a	
SCALE:		International Medical Corps IMC -Sana'a Office منظمة الصحة العالمية - مكتب صنعاء	
		Republic of Yemen MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS	

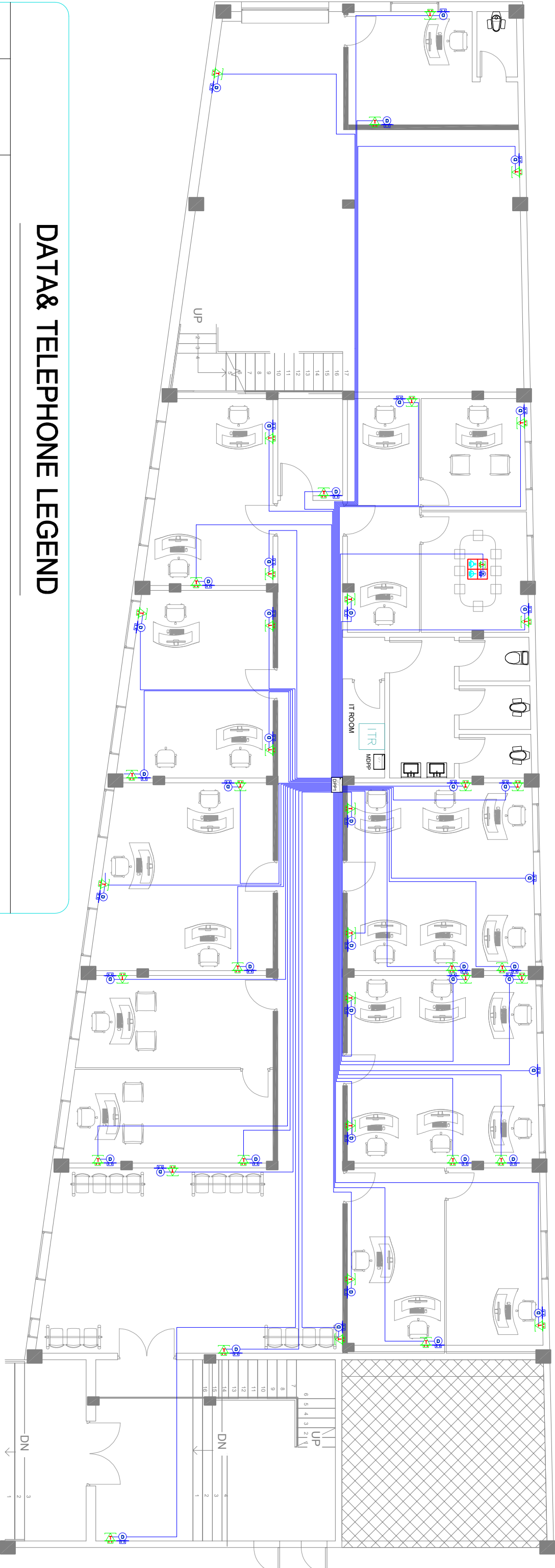


CCVT SYSTEMS LEGEND

TYPE	SYMBOL	DESCRIPTION
		INDOOR DOME CAMERA.
		FIXED OUTDOOR TYPE NORMAL CAMERA.
		NETWORK VIDEO RECORDER (NVR) WITH POE SWITCH CONTAINED IN XXU RACK.
		POE SWITCH
		CCTV CONSOLE & MONITOR EQUIPMENT

DRAWING NO.	E108.	Sheet Name:	Project Title:	
DRAWING REVISION	V/1		Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a	
DATE:	Apr. 2024		 International Medical Corps IMC -Sana'a Office	
SCALE:			مظفئة الهيئة الدولية - مكتب صنعاء	
			Republic of Yemen MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS	
				





DATA& TELEPHONE LEGEND

TYPE	SYMBOL	DESCRIPTION
		RJ45 CAT7 OUTLET FOR DATA
		RJ45 CAT7 OUTLET FOR TELEPHONE
		FLOOR BOX CONTAINS :- (DOUBLE SOCKET(NORMAL)+SINGLE SOCKET(UPS)+TEL.+DATA)
		SUB DATA CABINET WITH SWITCH & PATCH PANEL CONSISTING OF 10/100 RJ-45 PORTS WITH PoE, ALL CONTAINED IN RACK CABINET WITH SIZE xxU AS SPECIFIED IN LAYOUTS.
		MAIN DATA CABINET WITH SWITCH & PATCH PANEL CONSISTING OF 10/100 RJ-45 PORTS WITH PoE, ALL CONTAINED IN RACK CABINET WITH SIZE xxU AS SPECIFIED IN LAYOUTS.
		IT RACK

DRAWING NO.

E110.

Sheet Name:

DATA AND TELEPHONE SYSTEM GROUND FLOOR

DRAWING REVISION

V/1

DATE:

Apr. 2024

SCALE:

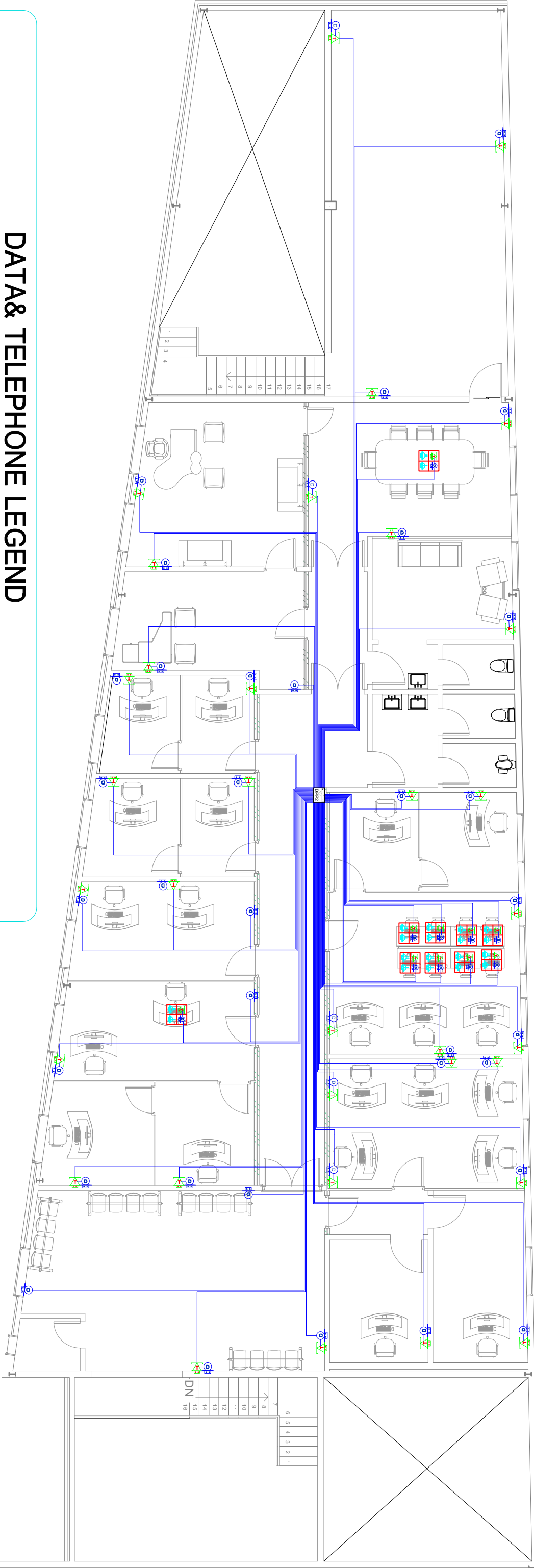
Project Title:

Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a

International Medical Corps
IMC - Sana'a Office
منظمة الصحة الدولية - مكتب صنعاء



Republic of Yemen

MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS

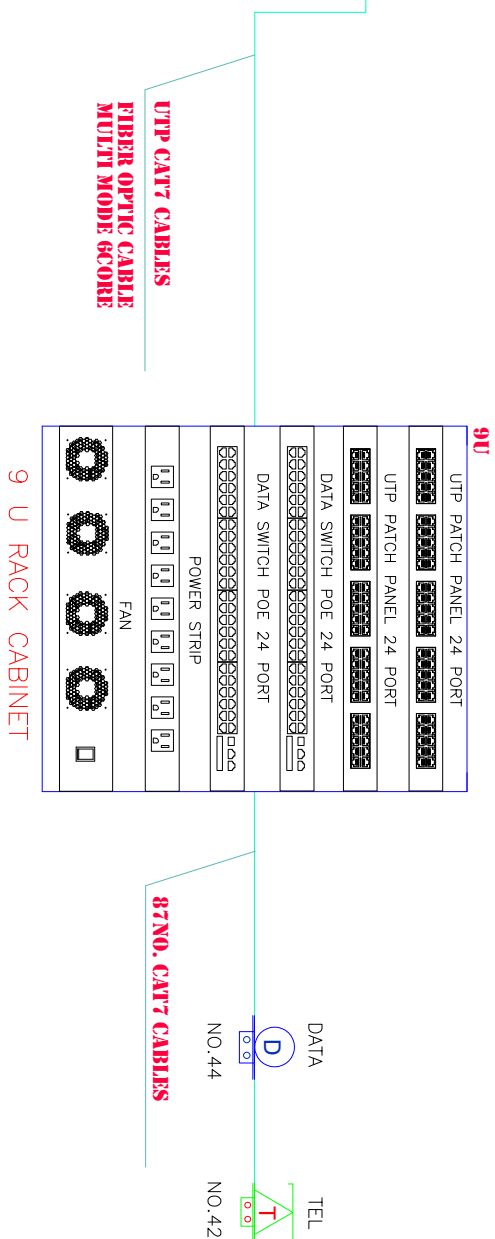
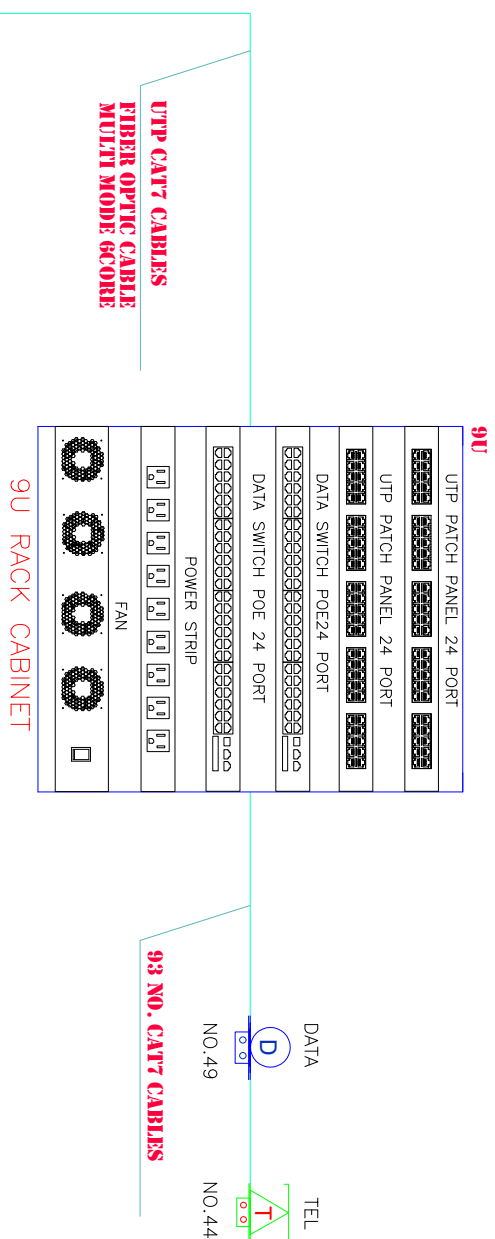
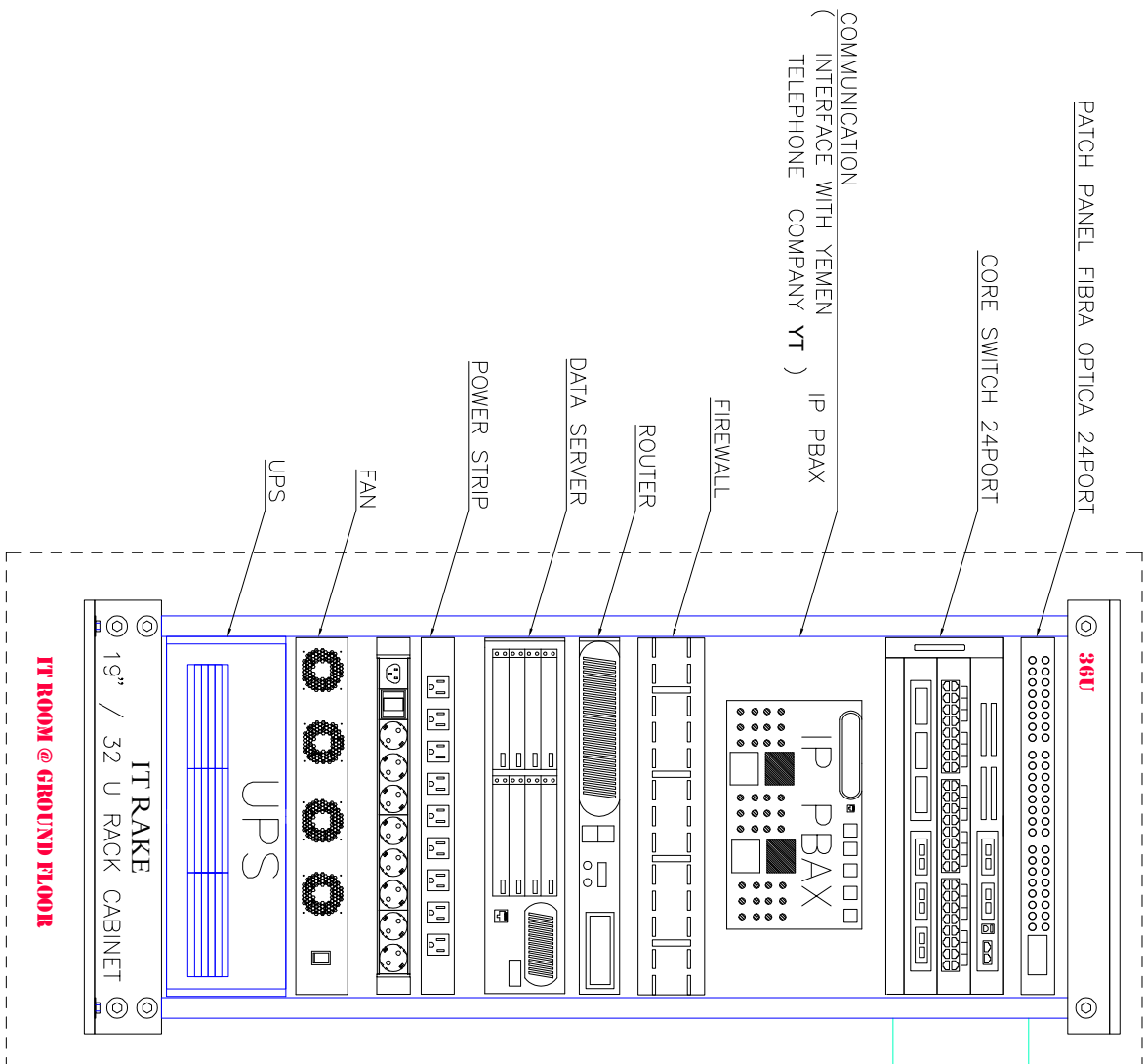




DATA& TELEPHONE LEGEND

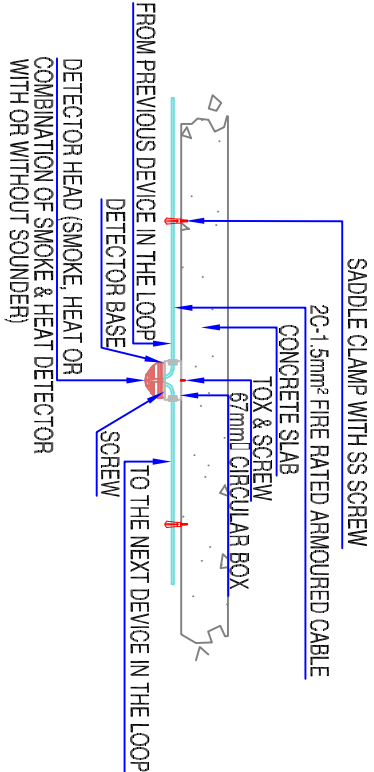
TYPE	SYMBOL	DESCRIPTION
		RJ45 CAT7 OUTLET FOR DATA
		RJ45 CAT7 OUTLET FOR TELEPHONE
		FLOOR BOX CONTAINS :- (DOUBLE SOCKET(NORMAL)+SINGLE SOCKET(UPS)+TEL.+DATA)
		SUB DATA CABINET WITH SWITCH & PATCH PANEL CONSISTING OF 10/100 RJ-45 PORTS WITH PoE, ALL CONTAINED IN RACK CABINET WITH SIZE xxU AS SPECIFIED IN LAYOUTS.
		MAIN DATA CABINET WITH SWITCH & PATCH PANEL CONSISTING OF 10/100 RJ-45 PORTS WITH PoE, ALL CONTAINED IN RACK CABINET WITH SIZE xxU AS SPECIFIED IN LAYOUTS.
		IT RACK

DRAWING NO.	E111.	Sheet Name:	Project Title:		
DRAWING REVISION	V/1			IMC - Sana'a Office	
DATE:	Apr. 2024			مظففة الهيئة الدولية - مكتب صنعاء	
SCALE:				إششاء مبنى الإدارة والمستودع في مستشفى فلسطين صنعاء	
				Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a	
					Republic of Yemen
					MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS

FIRST FLOOR

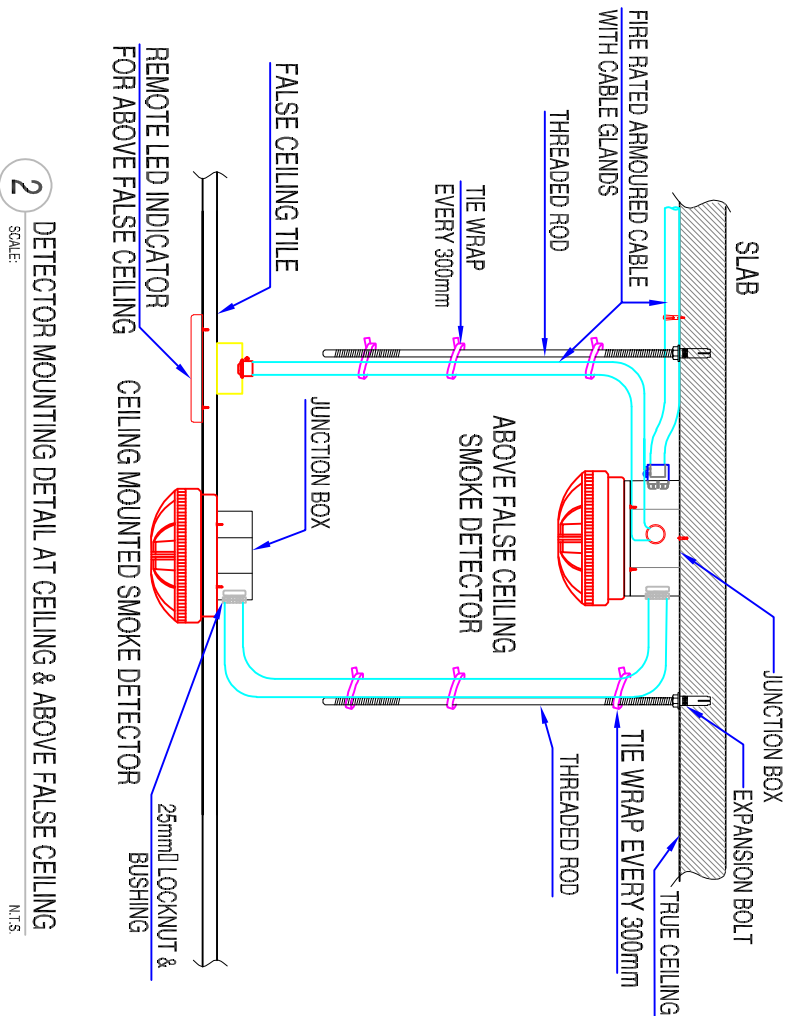


DRAWING NO.	E112.	Sheet Name: Data and Telephone System Riser Diagram-	Project Title: Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a إنشاء مبنى الإدارة والمستودع في مستشفى فلسطين صنعاء	 International Medical Corps IMC -Sana'a Office منظمة الهيئة الدولية - مكتب صنعاء	Republic of Yemen MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS 
DRAWING REVISION	V1				
DATE:	Apr. 2024				
SCALE:					



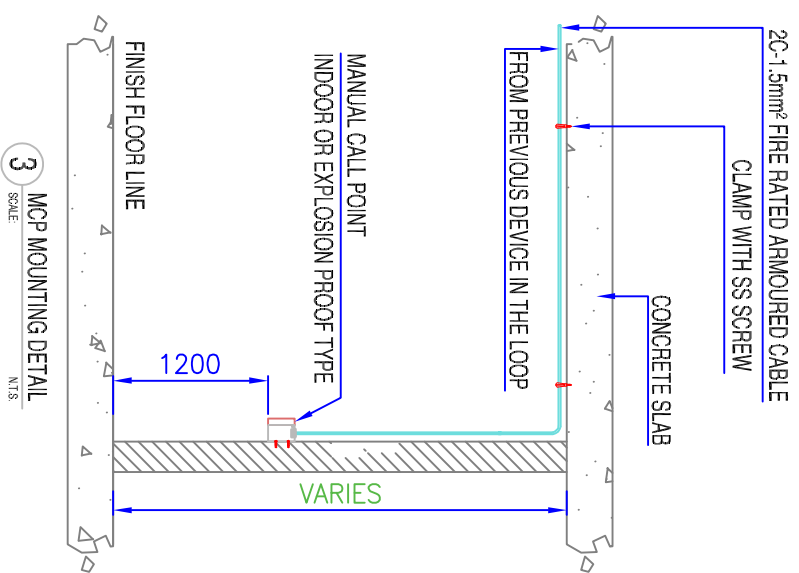
1
SCALE
N/S

DETECTOR MOUNTING DETAIL INDOOR & EXPLOSION PROOF TYPE



2
SCALE
N/S

DETECTOR MOUNTING DETAIL AT CEILING & ABOVE FALSE CEILING

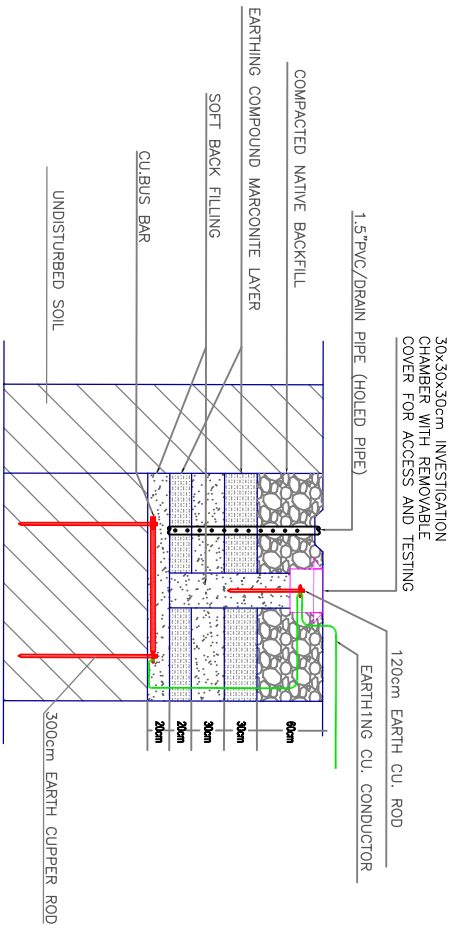
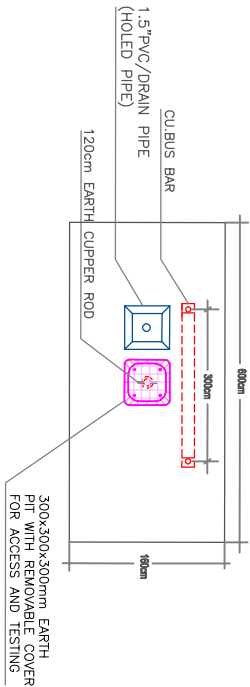


3
SCALE
N/S

MCP MOUNTING DETAIL

DRAWING NO.	E114.	Sheet Name:	Project Title:	International Medical Corps	Republic of Yemen
DRAWING REVISION	V/1		Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a	IMC -Sana'a Office	MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS
DATE:	Apr. 2024	Fire Alarm Detail1	إنشاء مبنى الإدارة والمستودع في مستشفى فلسطين صنعاء	مظقة الهيئة الدولية - مكتب صنعاء	
SCALE:					

TYPE E1

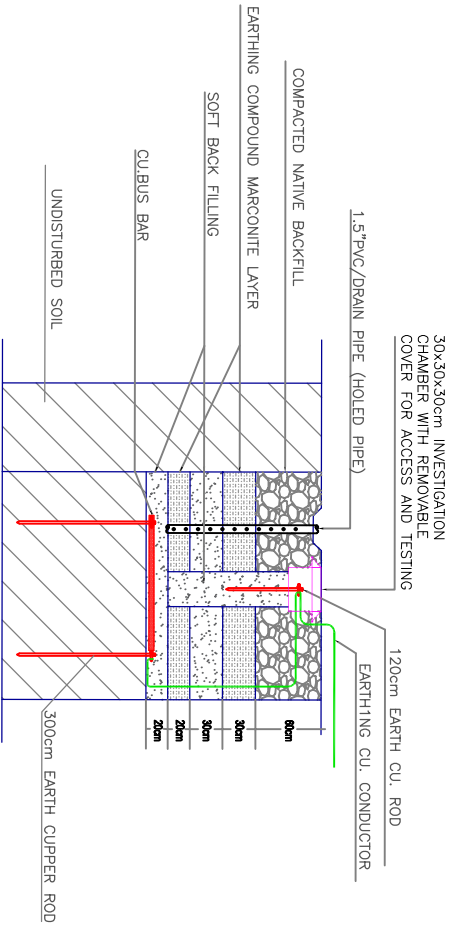
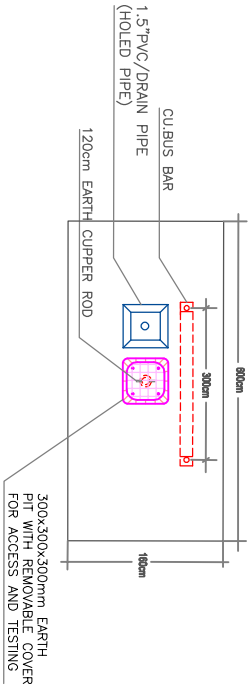


TYPICAL DETAILS FOR EARTHING PIT (TYPE E1)
SCALE NTS

NOTE (FOR ELECTRICAL NETWORK):

RESISTANCE OF EARTHING SHOULD NOT EXCEED 5Ω.

TYPE E2



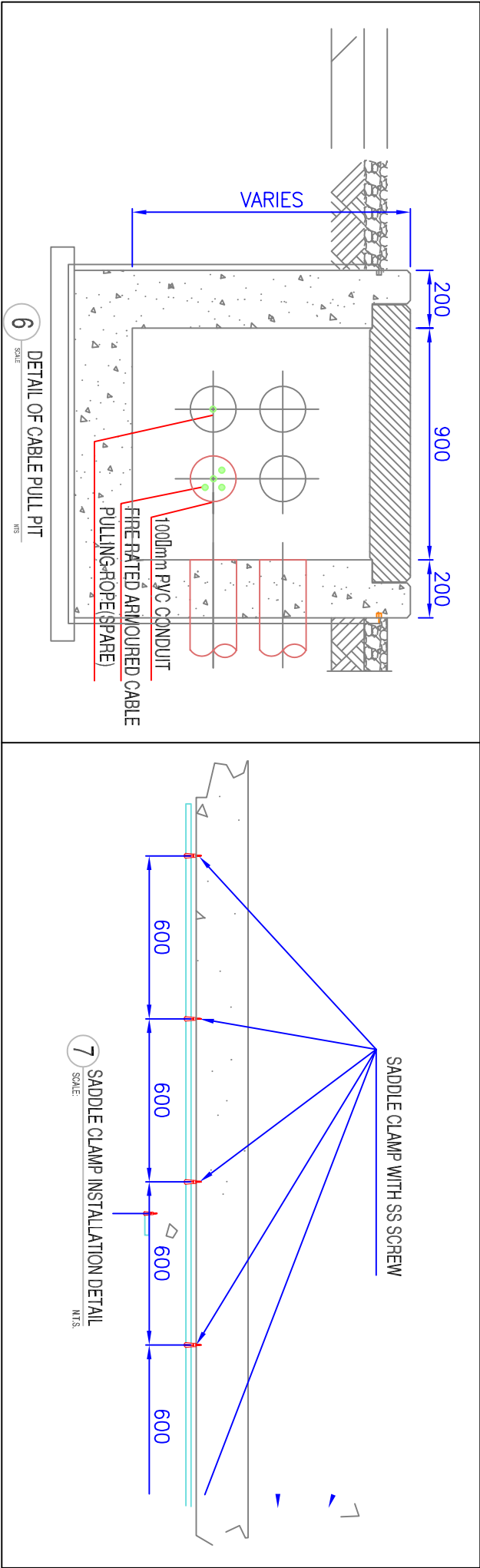
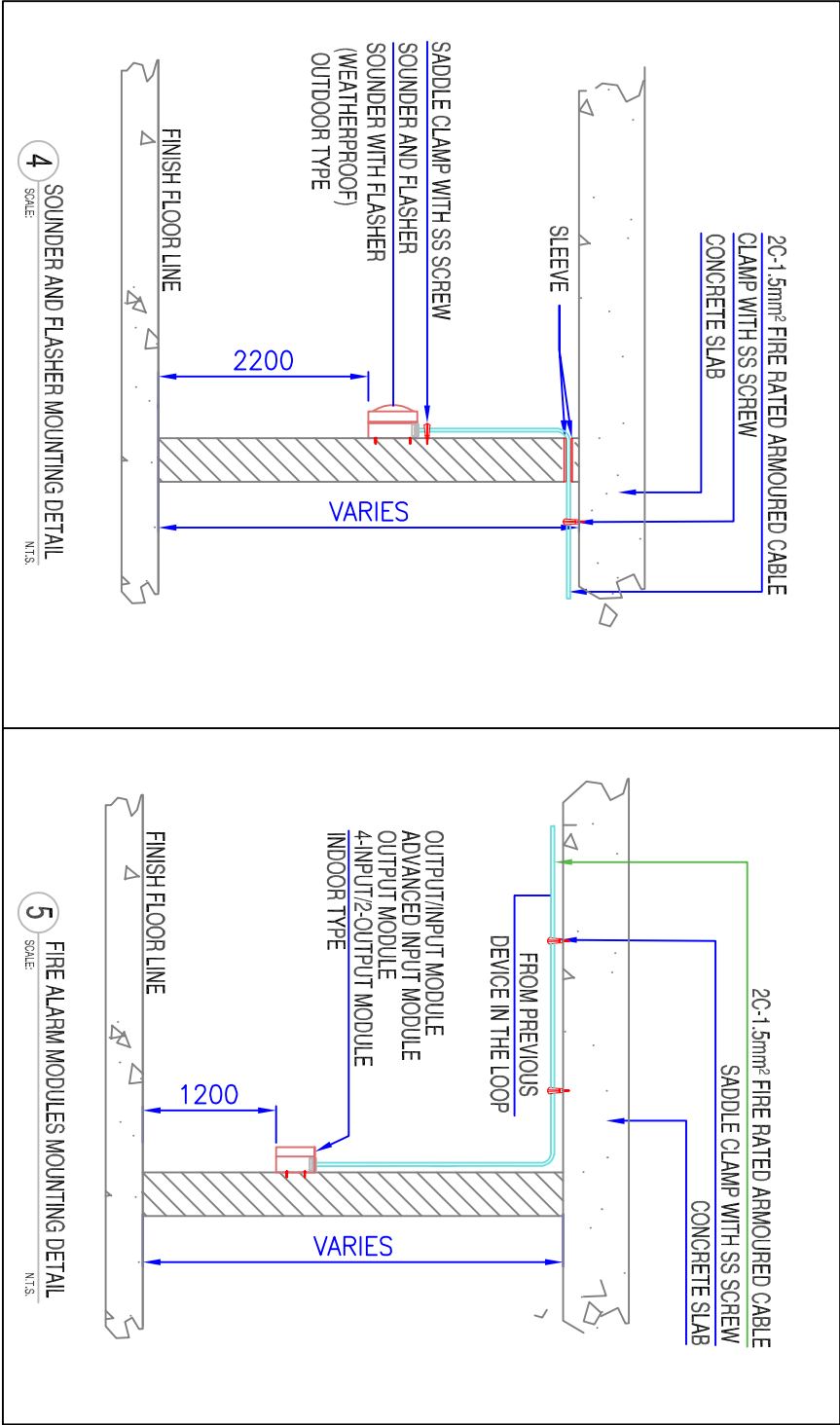
TYPICAL DETAILS FOR EARTHING PIT (TYPE E2)
SCALE NTS

NOTE (FOR LOW CURRENT NETWORKS):

RESISTANCE OF EARTHING SHOULD NOT EXCEED 2Ω.

DRAWING NO.	E115.	Sheet Name:		
DRAWING REVISION	V/1	Project Title: Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a إششاء مبنى الإدارة والمستودع في مستشفى فلسطين صنعاء		
DATE:	Apr. 2024			
SCALE:				
ELECTRICAL DETILS 3		Project Title: Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a إششاء مبنى الإدارة والمستودع في مستشفى فلسطين صنعاء		
		International Medical Corps IMC -Sana'a Office مظقة الهيئة الدولية - مكتب صنعاء		
		Republic of Yemen MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS		

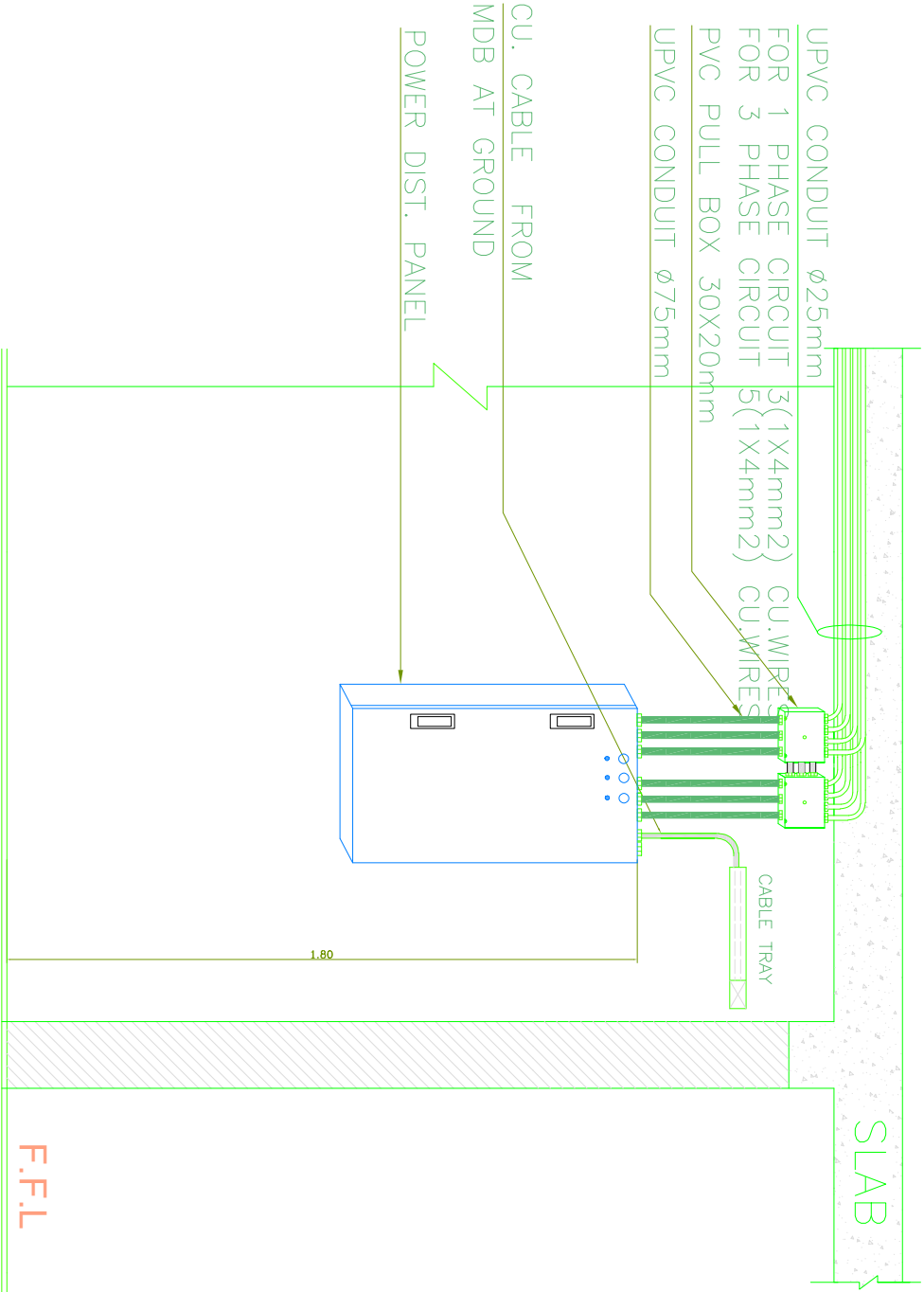




DRAWING NO.	E116.	Sheet Name:	Project Title:		
DRAWING REVISION	V/1		Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a	International Medical Corps	Republic of Yemen
DATE:	Apr. 2024	fire Alarm Detail2	إنشاء مبنى الإدارة والمستودع في مستشفى فلسطين صنعاء	IMC -Sana'a Office	MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS
SCALE:				منظمة الصحة الدولية - مكتب صنعاء	

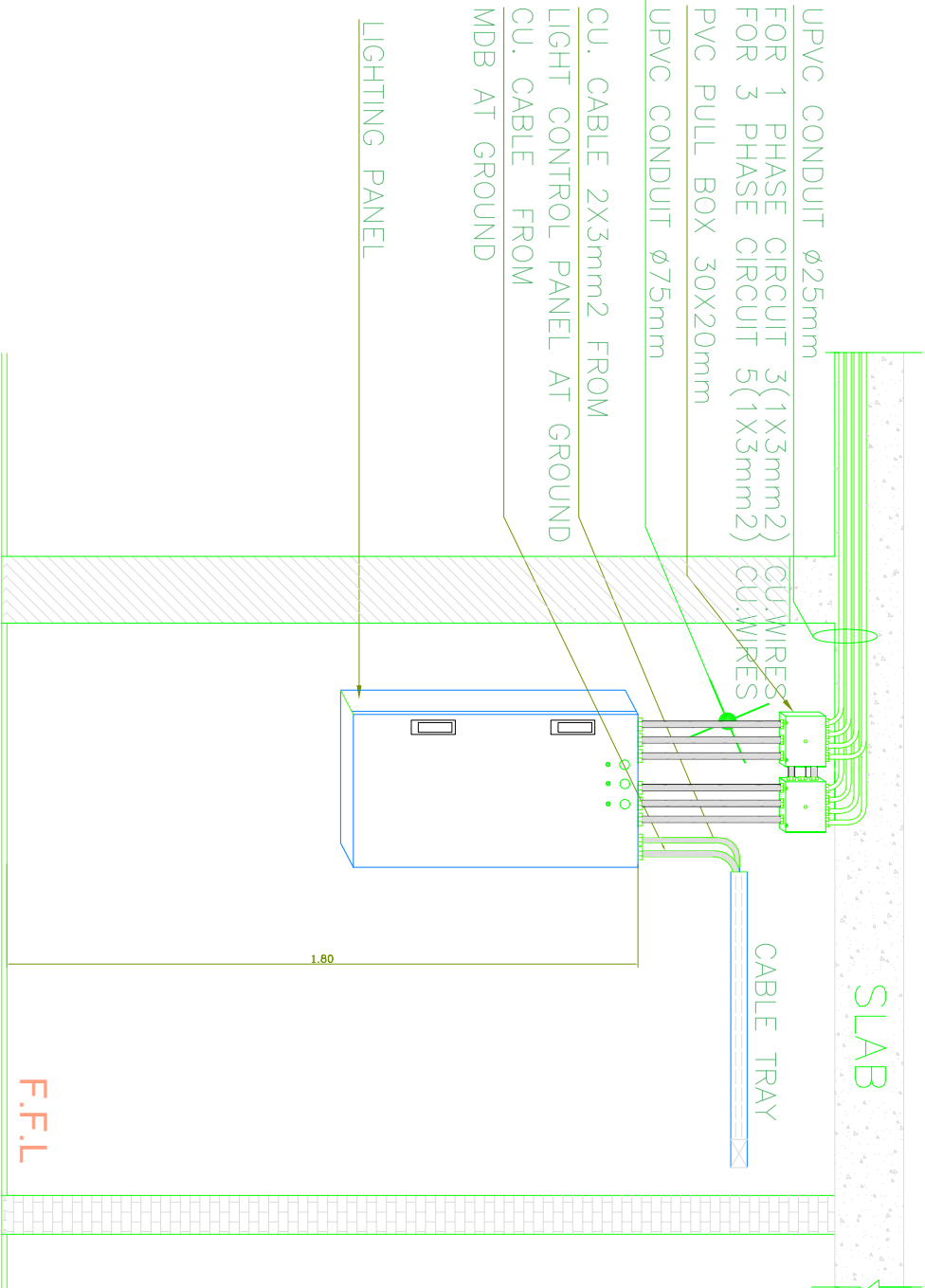
DRAWING NO.	E117.	Sheet Name:	Project Title: Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a		Republic of Yemen MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS
DRAWING REVISION	V/1	Date:	Apr. 2024	إشاد مينى الإدارة والمستودع فى مستشفى فلسطين صنعاء	
SCALE:					

<p>TYPICAL DETAIL FOR EXIT INSTALLATION N.T.S</p>	<p>TYPICAL DETAIL FOR DOWN LIGHT INSTALLATION N.T.S</p>	<p>TYPICAL DETAILS FOR POWER DIST PANELS N.T.S</p>	<p>TYPICAL DETAILS FOR LIGHTING DIST PANELS N.T.S</p>
<p>SURFACE MOUNTED LUMINAIRE N.T.S DETAIL NO.1</p>	<p>RECESSED MOUNTED FLUORESCENT FIXTURE N.T.S</p>	<p>TYPICAL DETAIL FOR ERECTIONLIGHT FIXTURES EQUIPPED WITH BACK UP BATTERY N.T.S</p>	<p>TYPICAL DETAILS FOR CONDUIT ROUT TO FEED 2 LIGHT FIXTURES IN 2 DIFF FLOORS N.T.S</p>



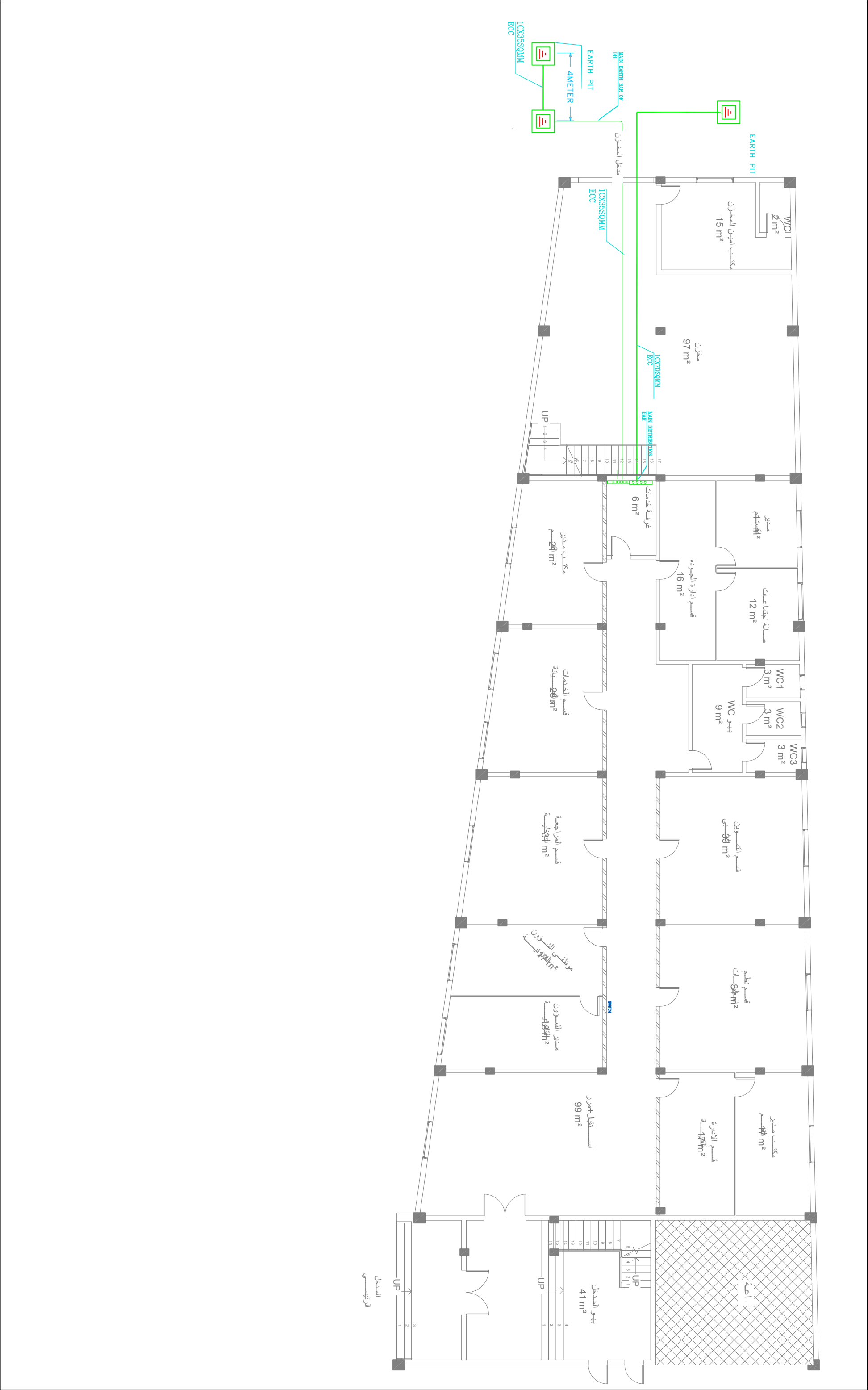
TYPICAL DETAILS FOR POWER DIST. PANELS

N.T.S



TYPICAL DETAILS FOR LIGHTING DIST. PANELS

DRAWING NO.	E118.	Sheet Name:	
DRAWING REVISION	V1	Project Title: Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a	
DATE:	Apr. 2024		
SCALE:			
ELECTRICAL DETILS 4		<div>Project Title:</div> <div>Construction of Administration Building and Warehouse at The Palestine Hospital -Sana'a</div> <div>إششاء مبنى الإدارة والمستودع في مستشفى فلسطين صنعاء</div>	<div><div><div>International Medical Corps</div><div>IMC - Sana'a Office</div><div>مظقة الهيئة الدولية - مكتب صنعاء</div></div></div> <div><div>Republic of Yemen</div><div>MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS</div><div></div></div>



DRAWING NO.	E119.	Sheet Name:	Project Title:	International Medical Corps IMC - Sana'a Office	Republic of Yemen MINISTRY OF PUBLIC HEALTH AND POPULATION HEALTH PLANNING AND DEVELOPMENT SECTOR GENERAL ADMINISTRATION OF ENGINEERING AFFAIRS
DRAWING REVISION	V1				
DATE:	Apr. 2024				
SCALE:					



إنشاء مبنى الإدارة والمستودع في مستشفى فلسطين - صنعاء
Construction of administration building and warehouse at the Palestine Hospital - Sana'a

Load Schedule Calculation Sheet

Panel Data :

Panel Tag No. :	DB-G	Rated Volt :	380 / 220V
Panel Location :	servece room	Rated Frequency :	50 Hz
Panel Type :	Power Loads/ 24 ways	I.C. Current :	25 kAm
Mounting :	Wall Recessed	40 A	
IP Degree :	55	Main C.B. Rating:	MCCB


Main Feeder Data :

Feeding Panel Tag No. :	
Feeding Panel Location :	
Mian Cable Length :	10.00 m.
Cross Sectional Area :	4Cx 10mm ² + - CU/XLPE/PVC + E=10mm ²
Cable Type / Insulation :	CU / XLPE / PVC

Important Notes

ALL Short circuits : 10KAm
All cables are produced by BAHRA
(Main circuit Breaker): 40
Mian Cable Length : 10.00 m.

CT NO.	DESIGNATION OF LOAD	WIRE	PHASE LOAD			MCB			MCB		PHASE LOAD			WIRE	DESIGNATION OF LOAD	CT NO.
		SIZE mm ²	R	Y	B	Rating	Poles		Poles	Rating	R	Y	B	SIZE mm ²		
1	LP1_ LIGHTING	2x2.5+2.5	300			10	2	1						2x2.5+2.5	L2_ LIGHTING	2
3	L3_ LIGHTING (LP-GR)	2x2.5+2.5		400		10	2	3				200		2x2.5+2.5	L4_ LIGHTING	4
5	L5_ LIGHTING	2x2.5+2.5			450	10	2	5					276	2x2.5+2.5	L6_ LIGHTING	6
7	PP1_SOCKET Outlets	2x4+4	2125			16	2	7			2125			2x4+4	P2_SOCKET Outlets	8
9	P3_SOCKET Outlets	2x4+4		1813		16	2	9				2200		2x4+4	P4_SOCKET Outlets	10
11	P5_SOCKET Outlets	2x4+4			2800	16	2	11					1250	2x4+4	P6_SOCKET Outlets	12
13	SPARE					16	2	13							SPARE	14
15	SPARE					16	2	15							SPARE	16
17	SPARE					10	2	17							SPCRE	18
19	SPARE					10	2	19							SPCRE	20
21	SPARE					10	2	21							SPCRE	22
23	SPARE							23							SPCRE	24
	SPARE															

Sub. Total Power (VA)			2425.00	2212.50	3250.00				2341.00	2400.00	1526.00	Sub. Total Power (VA)		
Total Connected Power (VA)			4766.00	4612.50	4776.00	14155 VA								
Total Connected Current (A)						27 A								
Avg. (VA) Power / Phase :			4718.166667 VA											
% Balance :			101.01	97.76	101.23									

14.155 kVA

	Lighting Loads	Power Loads	A/C Loads	Others	Total Power
Connected Power (kVA)	1.842	12.313	0.000	0.000	14.155
% Demand Factor	100%	70%	50%	100%	
Demand Load (kVA)	1.842	8.619	0.000	0.000	10.461



إنشاء مبنى الإدارة والمستودع في مستشفى فلسطين - صنعاء
Construction of administration building and warehouse at the Palestine Hospital - Sana'a

Load Schedule Calculation Sheet

Panel Data :

Panel Tag No. :	EDB-G	Rated Volt :	380 / 220V
Panel Location :	servece room	Rated Frequency :	50 Hz
Panel Type :	Power Loads/ 18 ways	I.C. Current :	25 kAm
Mounting :	Wall Recessed	Main C.B. Rating:	32 A
IP Degree :	55		MCCB

Main Feeder Data :

Feeding Panel Tag No. :	
Feeding Panel Location :	
Mian Cable Length :	10.00 m.
Cross Sectional Area :	4Cx 6mm ² + - CU/XLPE/PVC + E=10mm ²
Cable Type / Insulation :	CU / XLPE / PVC

Important Notes

ALL Short circuits : 10KAm
All cables are produced by Al-Fanar Company
(Main circuit Breaker): 32
Mian Cable Length : 25.00 m.

CT NO.	DESIGNATION OF LOAD	WIRE	PHASE LOAD			MCB			MCB		PHASE LOAD			WIRE	DESIGNATION OF LOAD	CT NO.
		SIZE mm ²	R	Y	B	Rating	Poles		Poles	Rating	R	Y	B	SIZE mm ²		
1	L1_ LIGHTING	2x2.5+2.5			200	10	2	1		10	326			2x2.5+2.5	L2_ LIGHTING	2
3	L3_ LIGHTING	2x2.5+2.5		275		10	2	3		10			125	2x2.5+2.5	L4_ LIGHTING	4
5	P1_SOCKET Outlets	2x4+4	1260			10	2	5		10	540			2x4+4	P2_SOCKET Outlets	6
7	P3_SOCKET Outlets	2x4+4		1260		20	2	7		20		720		2x4+4	P4_SOCKET Outlets	8
9	P5_SOCKET Outlets	2x4+4			900	20	2	9		20			900	2x4+4	P6_SOCKET Outlets	10
11	SPARE	2x4+4				20	2	11		20					SPARE	12
13	SPARE					20	2	13		20					SPARE	14
15	SPARE					10	2	15		10					SPARE	16
17	SPARE					10	2	17		10					SPCRE	18

Sub. Total Power (VA)	1260.00	1535.00	1100.00
	866.00	720.00	1025.00
Total Connected Power (VA)	2126.00	2255.00	2125.00
Total Connected Current (A)			
Avg. (VA) Power / Phase :	2168.666667		VA
% Balance :	98.03	103.98	97.99

6.506 kVA

	Lighting Loads	Power Loads	A/C Loads	Others	Total Power
Connected Power (kVA)	0.926	5.580	0.000	0.000	6.506
% Demand Factor	100%	70%	50%	100%	
Demand Load (kVA)	0.926	3.906	0.000	0.000	4.832



إنشاء مبنى الإدارة والمستودع في مستشفى فلسطين - صنعاء
Construction of administration building and warehouse at the Palestine Hospital - Sana'a

Load Schedule Calculation Sheet

Panel Data :

Panel Tag No. :	DB-F	Rated Volt :	380 / 220V
Panel Location :	servece room	Rated Frequency :	50 Hz
Panel Type :	Power Loads/ 18 ways	I.C. Current :	25 kAm
Mounting :	Wall Recessed	Main C.B. Rating:	40 A
IP Degree :	55		MCCB

Main Feeder Data :

Feeding Panel Tag No. :	
Feeding Panel Location :	
Mian Cable Length :	10.00 m.
Cross Sectional Area :	4Cx 10mm ² + - CU/XLPE/PVC + E=10mm ² mm ²
Cable Type / Insulation :	CU / XLPE / PVC

Important Notes

ALL Short circuits : 10KAm
All cables are produced by Al-Fanar Company
(Main circuit Breaker): 40 A
Mian Cable Length : 25.00 m.

CT NO.	DESIGNATION OF LOAD	WIRE	PHASE LOAD			MCB			MCB		PHASE LOAD			WIRE	DESIGNATION OF LOAD	CT NO.
		SIZE	VA			Rating	Poles		Poles	Rating	VA			SIZE		
		mm ²	R	Y	B						R	Y	B	mm ²		
1	L1_ LIGHTING	2x2.5+2.5			210	10	2	1	2	10		350		2x2.5+2.5	L2_ LIGHTING	2
3	L3_ LIGHTING	2x2.5+2.5			406	10	2	3	4	10			450	2x2.5+2.5	L4_ LIGHTING	4
5	L5_ LIGHTING	2x2.5+2.5		300		10	2	5	6	20	2160			2x4+4	P1_ SOCKET Outlets	6
7	P2_ SOCKET Outlets	2x4+4	1800			20	2	7	8	20			1440	2x4+4	P3_ SOCKET Outlets	8
9	P4_ SOCKET Outlets	2x4+4			1260	20	2	9	10	16					SPARE	10
11	P5_ SOCKET Outlets	2x4+4		720		20	2	11	12	16					SPARE	12
13	WATER HEATER1	2x4+4		2500		16	2	13	14	16					SPARE	14
15	SPARE					16	2	15	16	16					SPARE	16
17	SPCRE					10	2	17	18	10					SPCRE	18

Sub. Total Power (VA)	1800.00	3520.00	1876.00								2160.00	350.00	1890.00	Sub. Total Power (VA)
Total Connected Power (VA)	2160.00	350.00	1890.00											
Total Connected Current (A)	3960.00	3870.00	3766.00	11596	VA									
				22	A									
Avg. (VA) Power / Phase :	3865.333333	VA												
% Balance :	102.45	100.12	97.43											
				11.596	kVA									

	Lighting Loads	Power Loads	A/C Loads	Others	Total Power
Connected Power (kVA)	1.716	7.380	0.000	2.500	11.596
% Demand Factor	100%	70%	50%	100%	
Demand Load (kVA)	1.716	5.166	0.000	2.500	9.382



إنشاء مبنى الإدارة والمستودع في مستشفى فلسطين - صنعاء
Construction of administration building and warehouse at the Palestine Hospital - Sana'a

Load Schedule Calculation Sheet

Panel Data :

Panel Tag No. :	EDB-F	Rated Volt :	380 / 220V
Panel Location :	servece room	Rated Frequency :	50 Hz
Panel Type :	Power Loads/ 18 ways	I.C. Current :	25 kAm
Mounting :	Wall Recessed	40 A	
IP Degree :	55	Main C.B. Rating:	MCCB

Main Feeder Data :

Feeding Panel Tag No. :	
Feeding Panel Location :	
Mian Cable Length :	10.00 m.
Cross Sectional Area :	4Cx 6mm ² + - CU/XLPE/PVC + E= mm ²
Cable Type / Insulation :	CU / XLPE / PVC

Important Notes

ALL Short circuits : 10KAm
All cables are produced by Al-Fanar Company
(Main circuit Breaker): 40 A
Mian Cable Length : 25.00 m.

CT NO.	DESIGNATION OF LOAD	WIRE	PHASE LOAD			MCB			MCB		PHASE LOAD			WIRE	DESIGNATION OF LOAD	CT NO.
		SIZE mm ²	R	Y	B	Rating	Poles		Poles	Rating	R	Y	B	SIZE mm ²		
1	L1_ LIGHTING (ELP-FR)	2x2.5+2.5		450		10	2	1			300			2x2.5+2.5	L2_ LIGHTING (LP-GR)	2
3	L3_ LIGHTING (LP-GR)	2x2.5+2.5		105		10	2	3						2x2.5+2.6	SPARE	4
5	SPARE					10	2	5						2x2.5+2.7	SPARE	6
7	PP1_SOCKET Outlets	2x4+4	1260			20	2	7					1080	2x4+4	P2_SOCKET Outlets(PP-GF)	8
9	P3_SOCKET Outlets(PP-GF)	2x4+4		1440		20	2	9					1080	2x4+4	P4_SOCKET Outlets(PP-GF)	10
11	P5_SOCKET Outlets(PP-GF)	2x4+4	540			1	2	11						2x4+4	P6_SOCKET Outlets(PP-GF)	12
13	SPARE					20	2	13							P4_SOCKET cctv	14
15	SPARE					10	2	15							SPARE	16
17	SPCRE					20	2	17							SPARE	18

Sub. Total Power (VA)	1800.00	1995.00	0.00
	300.00	0.00	2160.00
Total Connected Power (VA)	2100.00	1995.00	2160.00
Total Connected Current (A)			
Avg. (VA) Power / Phase :	2085		VA
% Balance :	100.72	95.68	103.60

6.255 kVA

Main C.B. 32A MCCB

	Lighting Loads	Power Loads	A/C Loads	Others	Total Power
Connected Power (kVA)	0.855	5.400	0.000	0.000	6.255
% Demand Factor	100%	70%	50%	100%	
Demand Load (kVA)	0.855	3.780	0.000	0.000	4.635