

LIST OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	SCALE
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E-1100	GROUND FLOOR QUEUING SYSTEM LAYOUT	1:100

REFERENCE	SYMBOL	DESCRIPTION
F1		RECESSED IN FALSE CEILING (60X60)cm, LIGHTING FIXTURE ,31W LED ,4200LM,4000k frame aluminum powder-coated white, diffuser plastic (PMMA) opal, lateral light coupling with LED, lamps (LED) in Scope of delivery included, control gear dimmable (DALI height: 31mm) externally, Springs for ceiling installation included as standard Visible color: white IP: 20
F1E		DITTO AS ABOVE ,BUT WITH EMERGENCY KIT.
F2		Square recessed LED luminaire (60X60)cm,31w,4200LM,6000k, with translucent cover DW. Version with increased IP54 protection rating on room side. Generation of an enhanced depth effect in the room. Compliant to DIN 10500. The luminaires are suitable for applications in HALLS. System dimension 600 x 600 (MM). The optical system consists of a translucent, non-yellowing PMMA cover with high transmission factor. The cover surface is smooth and free of visible microprism structures. With narrow-wide light distribution. Glare evaluation (EN 12464-1) according to UGR a = 80.
F2E		DITTO AS ABOVE ,BUT WITH EMERGENCY KIT.
F3		SURFACE MOUNTED 36W LED MODULE,4000LM,6000K WITH SPECIAL FROSTED POLYCARBONATE FOR LED MODULE DIFFUSER IP65.
F3E		DITTO AS ABOVE ,BUT WITH EMERGENCY KIT.
F4		SURFACE MOUNTED 28W LED MODULE,3250LM,6000K WITH SPECIAL FROSTED POLYCARBONATE FOR LED MODULE DIFFUSER IP23.
F4E		DITTO AS ABOVE ,BUT WITH EMERGENCY KIT.
F5		PENDANT LUMINAIRES ,23W ,2550LM,IP40 1200mm,extruded aluminium profile base,plastic ,opal diffuser allows for brilliant glittering light along the lines,2-point steel cable suspension,adjustable ,4000k.
F6		RECESSED LINEAR LIGHT ,12W/m 1900lm,IP20,WIDTH 30 mm 4000k.
F7		Two lamps 2X16w,100 lum/W, recessed light,1362mm ,8194mm,die cast aluminium,powder coated with optical assembly miro-silver reflector or polycarbonate lens. IP20,4200LM,CRI=80,LIFE RATED 50,000 h, L70 B10,P.F = 0.9
F8		LuxSpace – high efficiency sustainable solution The highly energy-efficient LuxSpace family 12W 1074LM, makes it possible to achieve extremely low power consumption without sacrificing light quality in general lighting applications. This results in significant energy savings compared with traditional CFL solutions. LuxSpace features the latest LED technology and delivers reliable light output, stable color performance and high color-rendering. Downlight versions are available in three sizes and four outputs - LuxSpace Micro for 152 mm cut-outs, LuxSpace Mini (round and square versions) for 150 mm cut-outs and LuxSpace Compact (round and square versions) and Compact Power for 200 mm cut-outs – covering all downlight applications. Also available for general lighting applications is LuxSpace Surface-mounted. All LuxSpace models offer a compact look and feel, and a perfect fit. They are very easy to install, and their long lifetime means an end to the hassle of relamping. There is also a choice of accessories, ensuring maximum performance in all applications. In addition to LuxSpace for general lighting applications, LuxSpace Accent is also available (in fixed, adjustable and elbow versions) for high-flux accent lighting applications
F8E		DITTO AS ABOVE ,BUT WITH EMERGENCY KIT.
F9		TurnRound IP54 water-resistant – versatile downlight TurnRound12W 630LM 3000K IP54 water-resistant is a basic range of LED downlights designed for accent, ambience and guidance lighting in retail and hospitality applications. This part of the TurnRound family is protected against water ingress and can be used in wet environments like bathrooms, toilet areas and under-canopy applications. It comprises dimmable warm-white and neutral-white versions
F9E		DITTO AS ABOVE ,BUT WITH EMERGENCY KIT.
F10		15W LED ROUND (5cm diameter) FIXTURE ,IP44 WITH GLASS COVER 2000LM
F10E		DITTO AS ABOVE ,BUT WITH EMERGENCY KIT.
F11		20w led 1520LM ,IP65 SURFACE MOUNTED FIXTURE WITH OPAL POLYCARBONATE DIFFUSER AND POLYCARBONATE BODY HOUSING ,6000K ,WITH EMERGENCY KIT FOR 3 HOURS , FOR STAIRCASES.
F12		Series: Energo Darklight high quality recessed downlight with darklight effect. Recessed mounting frame: sheet steel, powder-coated. Recessed and bezel ring die-cast aluminium. Bezel ring with bayonet fixing. Heat sink made of black anodized extruded aluminium. Trumpet reflector: high purity aluminium, matt. Trumpet reflector for darklight effect. Homogeneous light distribution. Suitable for Recessed ceiling mounting. Simple mounting spring system for installation without tools. Including separate LED converter with connecting cable 400 mm. Suitable for through-wiring. The converter is compatible with DC, making it ideal for central battery systems.Through-wiring box (5 pole) available as accessory. Colour: white Diameter: 155 mm Height: 9 mm Cut-out diameter DA: 140 mm Recess height: 155 mm Luminaire recess height: 145 mm Lamp: LED Colour rendering index (CRI)US System power: 1 10 W Rated luminous flux: 1 1250 lm Glare evaluation UGR (at 8H) 1 16,2 Colour temperature: 1 4000 K Luminous efficiency: 125 lm/W Control gear: Regulated power supply Protection class: II Type of protection IP 20
F12E		DITTO AS ABOVE ,BUT WITH EMERGENCY KIT.
F13		24W ,3550 lum, PENDANT LUMINAIRES ,IP20,SUSPENSION LENGTH500-1200 mm,4000k,D=495mm CRI=80,LIFE RATED 50,000 h, L70 B10,P.F = 0.9
F14		PENDANT LUMINAIRE ,UNINTERRUPTED LIGHT LINE WITHOUT LIGHT LEAKAGE, DIFFERENT FORMS CAN BE CONFIGURED ,DIFFUSER MADE OF PLASTIC (NON YELLOWING PMMA) WITH AN OPAL OR MICROPRISMATIC FINISH,4000K 17W/water , 1650 lum, IP20,LIFE RATED 50,000 h, L70 B10,P.F = 0.9
F15		DIE-CAST ALUMINIUM WALL MOUNTED FIXTURE WITH VANDAL PROOF OPAL POLYCARBONATE DIFFUSER & 18W COMPACT FLUORESCENT LAMP, ALUMINIUM GREY COLOUR, IP-55
F16		LED STRIP 5W/m,650 lum /m, 3500k.
F17		LED TUPE 26W ,4000k,IP20
EM1		EMERGENCY LIGHTING FIXTURE, MAINTAINED/NON-MAINTAINED 2X8W FLUORESCENT LAMP, 3 HOUR DURATION, WALL MOUNTED (OVER DOOR) WITH RUN MAN SIGN, IP-54
EM2		DITTO AS EM1 BUT SUSPENDED MOUNTED
EX1		100W LED , FLOODLIGHT, WALL MOUNTED, DIE-CAST ALUMINIUM HOUSING, ANODIZED ALUMINIUM REFLECTOR, GALVANIZED STEEL MOUNTING BRACKET ,IP-65
EX2		54W LED , FLOODLIGHT, WALL MOUNTED, DIE-CAST ALUMINIUM HOUSING, ANODIZED ALUMINIUM REFLECTOR, GALVANIZED STEEL MOUNTING BRACKET ,IP-65
EX3		LED 20W ,2000lm, 100 lum/watt , 4000K,CRI=80,LIFE RATED 50,000 h,P.F = 0.9 , on top of wall ,Janfern ,IP65,3000K.
EX4		POLE MOUNTED h=3m, LED LIGHTING FIXTURES IP66,26W,100LM/WATT,3000K.

SYMBOL	DESCRIPTION
	13A, ONE GANG SOCKET SWITCHED OUTLET, WALL MOUNTED, IP-20, WITH LED, & WHITE COVER PLATE. AFC ABOVE FALSE CEILING. C CEILING MOUNTING
	13A, ONE GANG SOCKET SWITCHED OUTLET, WALL MOUNTED, WATER PROOF ,IP-44.
	13A, DOUBLE GANG SOCKET SWITCHED OUTLET, WALL MOUNTED IP-20, WITH LED, & WHITE COVER PLATE.
	13A, DOUBLE GANG SOCKET SWITCHED OUTLET, WALL MOUNTED ,WATER PROOF ,IP-44.
	8PIN, RA INDUSTRIAL SOCKET OUTLET.
	13A SWITCHED FUSED CONNECTION UNIT WITH NEON AND FLEX OUTLET
	13A (UN)SWITCHED FUSED CONNECTION UNIT WITH NEON AND FLEX OUTLET
	20A DOUBLE POLE SWITCH ,WITH FLEX OUTLET IN BASE,NEON AND HARNED.
	POWER POINT
	POINT FOR WARNING LIGHT ABOVE X-RAY ROOM DOOR,CONNECTED WITH X-RAY MACHINE.
	3- COMPARTMENT FLOOR BOX COMPRISED OF 2No.13A DUPLEX BRITISH STANDARD SOCKET OUTLET,1No. DATA OUTLET, 1No. TELEPHONE OUTLET.
	3- COMPARTMENT FLOOR BOX COMPRISED OF 2No.13A DUPLEX BRITISH STANDARD SOCKET OUTLET,1No. DATA OUTLET, 1No. TELEPHONE OUTLET, 1 NO. HDMI OUTLET.
	SPN, ISOLATING SWITCH, IP-45 (FOR RATING REFER TO DRAWINGS). P. DENOTES PEDESTAL MOUNTED
	TPN, ISOLATING SWITCH, IP-45 (FOR RATING REFER TO DRAWINGS). P. DENOTES PEDESTAL MOUNTED
	UNINTERRUPTIBLE POWER SUPPLY SYSTEM (UPS) COMPLETE WITH BY -PASS SWITCH " ON,OFF,BY-PASS" FINAL DISTRIBUTION BOARD (DB)
	SUBMAIN DISTRIBUTION BOARD: (SMDB)
	MAIN DISTRIBUTION BOARD (MDB)
	MOTOR CONTROL CENTER (MCC)
	AUTOMATIC TRANSFER SWITCH
	POWER TRANSFORMER
	DIESEL STANDBY GENERATOR
	(1mx1mx0.8m)ELECTRICAL MANHOLE
	(0.8mx0.8mx0.6m)LOW CURRENT MANHOLE

PUBLIC ADDRESS & VOICE EVACUATION SYSTEM

SYMBOL	DESCRIPTION
	LOUD SPEAKER RECESSED MOUNTED, 5W C/W TAP- CHANGING TRANSFORMER COLOR TO MATCH FALSE CEILING
	10W ,WALL MOUNTED SPEAKER.
	BACKGROUND MUSIC AND PUBLIC ADDRESS SYSTEM MAIN RACK.
	4 CH POWER AMPLIFIER.
	PAGING MIC
	END OF LINE

LIGHTING SWITCHES

SYMBOL	DESCRIPTION
	10A, 1 GANG , 1 WAY SWITCH
	10A, 2 GANG , 1 WAY SWITCH
	10A, 3 GANG , 1 WAY SWITCH
	10A, 1 GANG , 2 WAY SWITCH
	10A, 2GANG , 2 WAY SWITCH
	10A, 3GANG , 3 WAY SWITCH
	10A, 1 GANG INTERMEDIATE SWITCH
	10A, 2 GANG INTERMEDIATE SWITCH
	GRID SWITCH

TELEPHONE AND DATA SYSTEMS

SYMBOL	DESCRIPTION
	2NO. RJ45, DATA AND TELEPHONE OUTLETS
	1 NO. RJ45, DATA OUTLET
	1 NO. RJ45, TELEPHONE OUTLET
	2NO. RJ45, DATA OUTLETS
	24 PORT PATCH PANELS
	POE SWITCH
	PRIVATE AUTOMATIC BRANCH EXCHANGE .
	LOW CURRENT SYSTEMS CABLE TRAY
	INTERMEDIATE DISTRIBUTION FRAME
	IP CAMERA WITH 5 MEGA PIXEL High Resolution
	IP CAMERA (WATER PROOF) WITH 8 MEGA PIXEL High Resolution,IP66
	IP DOME CAMERA WITH 5 MEGA PIXEL High Resolution
	10. OUTLET
	19" RACK CABINET FOR NVR'S
	LED MONITOR 55"
	NETWORK VIDEO RECORDER.
	DATA CENTER RACK CABINET

ACCESS CONTROL SYSTEM

FIGURE	DESCRIPTION
	ACCESS CONTROLLED DOOR
	CARD READER
	REQUEST TO EXIT BUTTON
	END OF LINE
	24 VAC POWER SUPPLY
	ACCESS CONTROLLED PANEL FOR TWO DOORS

FIRE DETECTION & ALARM SYSTEM

SYMBOL	DESCRIPTION
	PHOTOELECTRIC SMOKE DETECTOR (ANALOGUE ADDRESSABLE TYPE)
	HEAT DETECTOR (ANALOGUE ADDRESSABLE TYPE)
	SHORT CIRCUIT ISOLATOR DEVICE
	CONTROL MODULE
	FIRE ALARM CONTROL PANEL (MAIN PANEL)
	ADDRESSABLE TYPE INDOOR MANUAL CALL POINT
	ADDRESSABLE TYPE INDOOR SOUNDER AND FLASHER
	MONITOR MODULE UNIT.
	DUCT DETECTOR
	OPTICAL BEAM DETECTOR (TRANSMITTER & RECEIVER)
	PHOTOELECTRIC SMOKE DETECTOR WALL MOUNTED. (ANALOGUE ADDRESSABLE TYPE)

CONFERENCE SYSTEM

SYMBOL	DESCRIPTION
	Digital Audio Processor For Conference System
	Digital Network Conference Processor
	2 CHANNELS 50W POWER AMPLIFIER
	Recording Unit
	AUDIO MIXER
	HD MIXER MATRIX HOST BOX
	HD video Conference Camera,1080P HD,High performance, wide viewing angle,large zoom ratio
	CEILING SPEAKER
	CHAIRMAN AND DELEGATE UNITS WITH MICROPHONE

QUEUING SYSTEM

SYMBOL	DESCRIPTION
	CEILING SPEAKER
	KEYPAD COUNTER TERMINAL
	COUNTER DISPLAY
	WAITING AREA DISPLAY
	CENTRAL CONTROL UNIT QUEUING STSTEM

NOTE

- 1-THE ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, MECHANICAL AND SPECIALIST DRAWINGS AND SPECIFICATIONS.
- 2-DO NOT SCALE FROM THE ELECTRICAL DRAWING LAYOUTS. WORK ACCORDING TO ARCHITECTURAL AND ELECTRICAL DETAILS.
- 3-CONDUIT SIZES SHALL BE SELECTED IN ACCORDANCE WITH THE RELEVANT B.S REGULATIONS AND LOCAL REGULATIONS.
- 4-MINIMUM CONDUIT SIZE TO BE # 20mm
- 5-ALL OUTLETS, SWITCHES, BOXES, ISOLATING SWITCHES AND FITTINGS IN PLANT ROOMS AND/OR EXPOSED TO EXTERNAL ENVIRONMENT SHALL BE IP-54.
- 6-ALL ELECTRICAL INSTALLATIONS IN CAR PARKS, ELECTRICAL & MECHANICAL PLANT ROOMS SHALL BE SURFACE TYPE USING GALVANIZED STEEL CONDUITS, TRUNKING & TRAYS
- 7-ALL SOCKET OUTLETS SHALL BE MINIMUM OF 13 AMPERE RATED UNLESS OTHER WISE INDICATED.
- 8-ALL CONCEALED RINGING CONDUITS SHALL RUN IN THE WALLS OR COLUMNS, CONDUITS SHALL NOT RUN IN PLASTER.
- 9-DRAWINGS ARE UNBIDRUMATIC ONLY. CONTRACTOR SHALL ESTABLISH EXACT LOCATION OF LIGHTING FIXTURES, SMOKE DETECTORS ,etc. IN FULL COORDINATION WITH OTHER SERVICES AND TO THE ENGINEER APPROVAL.
- 10-LIGHTING FIXTURE IN MECHANICAL ROOMS, SUBSTATION, ELECTRICAL ROOMS ... etc. SHALL BE INSTALLED IN FULL COORDINATION WITH CABLE TRAYS, HVAC DUCTS, CONDUIT ,etc. AND BE CHAIN SUSPENDED WHERE REQUIRED.
- 11-CONDUIT SIZES CALLED OUT ON THE DRAWINGS ARE NOT NECESSARILY BASED ON THE MINIMUM SIZE ALLOWED BY THE CODES AND MAY BE PURPOSELY OVERSIZED TO AVOID EXCESS CONDUIT HEATING AND VOLTAGE DROP.
- 12-ALL CIRCUITS SHALL INCLUDE AN INSULATED GREEN GROUNDING CONDUCTOR. THIS CONDUCTOR SHALL BE CARRIED IN ALL RACKWAYS INCLUDING THOSE INSTALLED FOR SWITCH LEADS AND SHALL BE CONNECTED TO THE DEVICE, LUMINAIRES, SOCKET OUTLET OR EQUIPMENT HOUSING USING A SUITABLE GROUNDING LUG.
- 13-RATING OF ALL MCCBs AND BUS-BARS,...etc. SHOWN ON THE DRAWINGS AT 40C AMBIENT TEMPERATURE.
- 14-EARTHING OF ALL EQUIPMENT SHALL BE IN ACCORDANCE WITH THE RELEVANT B.S REQUIREMENTS.
- 15-ALL MINATURE CIRCUIT BREAKERS SHALL HAVE A MINIMUM BREAKING CAPACITY OF 9KA
- 16-ALL ELCCBs SHALL HAVE A MINIMUM BREAKING CAPACITY OF 10KA.



NOTES:

PLOT NO : 1
DISTRICT : KARAK
BASIN : 14 TALAT EAWAHAD

REV. MARK DATE MADE BY REMARKS

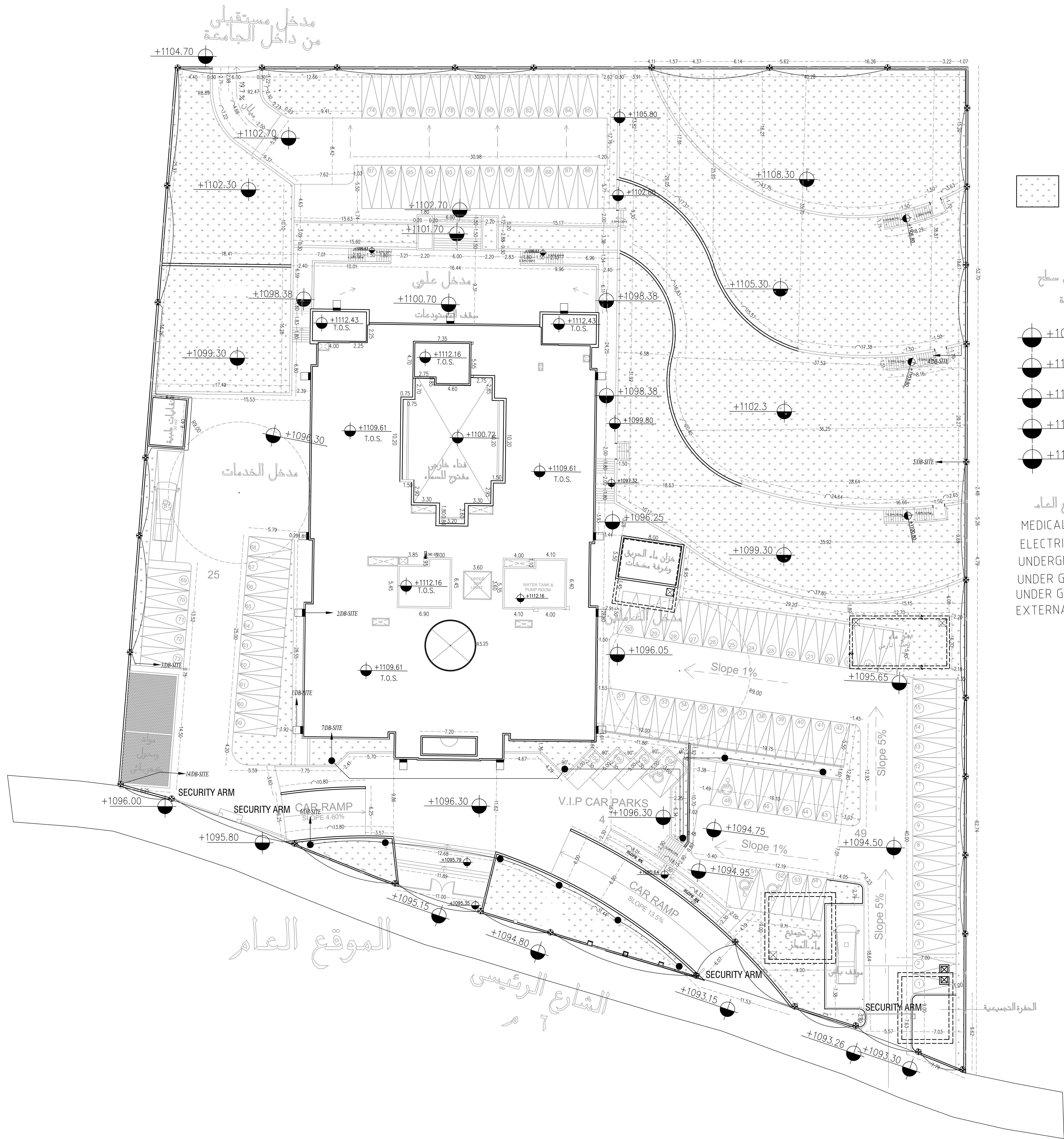
CLIENT THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS

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C E TEL:5829640-5829641 FAX:5829642
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PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY

DRG. TITLE LEGEND AND LIST OF ELECTRICAL DRAWINGS

DRAWN BY : ELEC.T SCALE: N.T.S
DESIGNED BY : A.F DATE : DEC.-2023
CHECKED BY : S.J PROJECT No. DRAWING No.
APPROVED BY: S.J E-000



مناطق خضراء
LANDSCAPE التفاصيل في مخطط

يتكون من ثلاث طوابق
أرضي، أول وثاني وطابق سطح
المشروع يقع على اراضي جامعة مؤتة

- منسوب بلاط الطابق الارضي +1096.30
- منسوب بلاط الطابق الاول +1100.72
- منسوب بلاط الطابق الثاني +1104.62
- منسوب عقدة الطابق الثاني +1109.61
- منسوب عقدة طابق السطح +1112.43 وغرف المصاعد

كما ويتوفر في المشروع في الموقع العام
MEDICAL WASTE ROOM
ELECTRIC GENERATOR
UNDERGROUND WATER TANK
UNDER GROUND SEPTIC COLLECTING TANK
UNDER GROUND RAIN WATER TANK
EXTERNAL FIRE ROOM & FIRE TANK

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PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

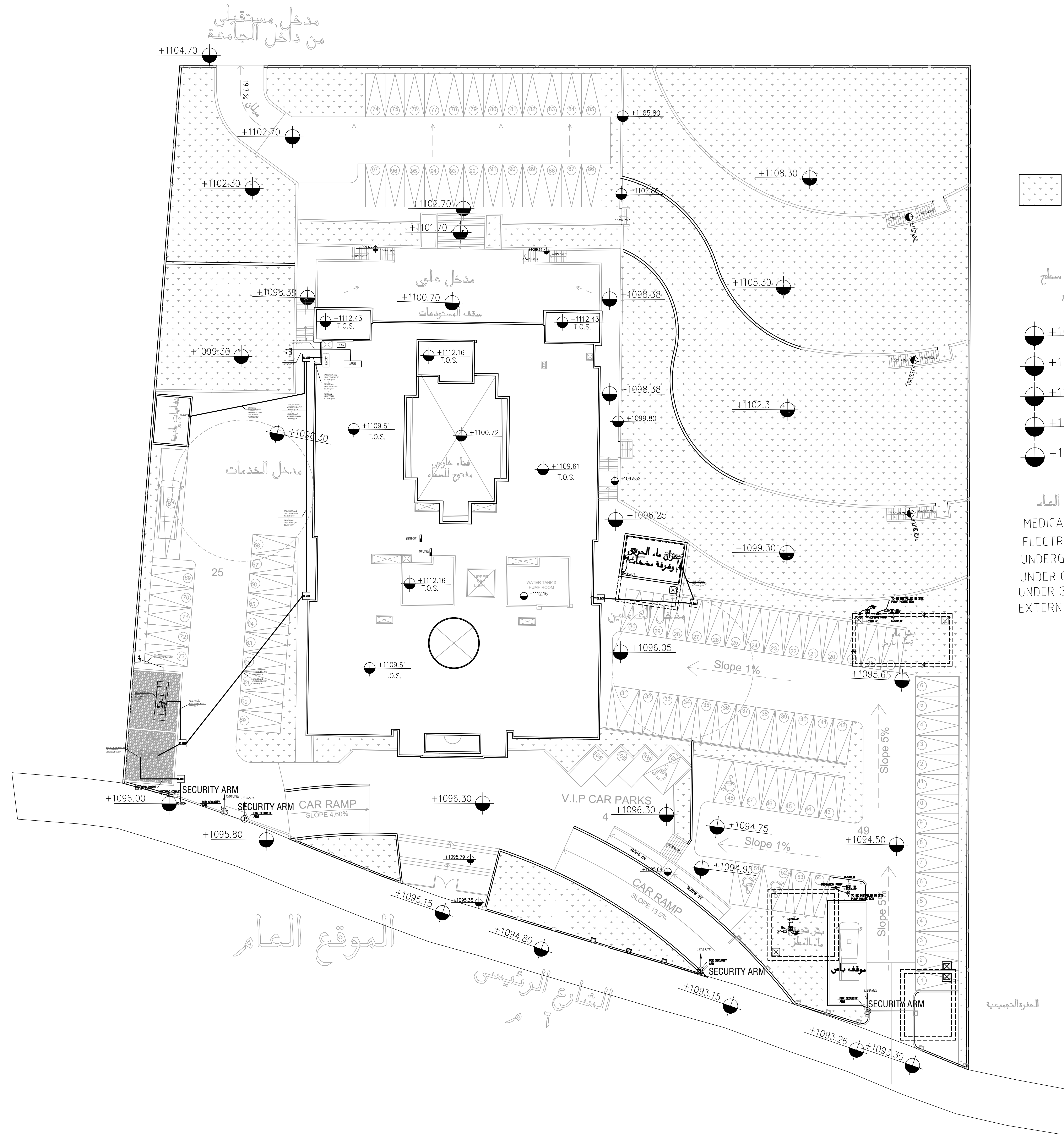
DRG. TITLE SITE PLAN
LIGHTING SYSTEM LAYOUT

DRAWN BY : ELEC.T SCALE: 1:200
DESIGNED BY : A.F DATE : DEC.-2023
CHECKED BY : S.J PROJECT No. DRAWING No.
APPROVED BY: S.J E-001



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M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	SITE PLAN POWER SYSTEM LAYOUT		
DRAWN BY : ELEC.T		SCALE: 1:200	
DESIGNED BY: A.F		DATE :DEC.-2023	
CHECKED BY: S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J			E-002

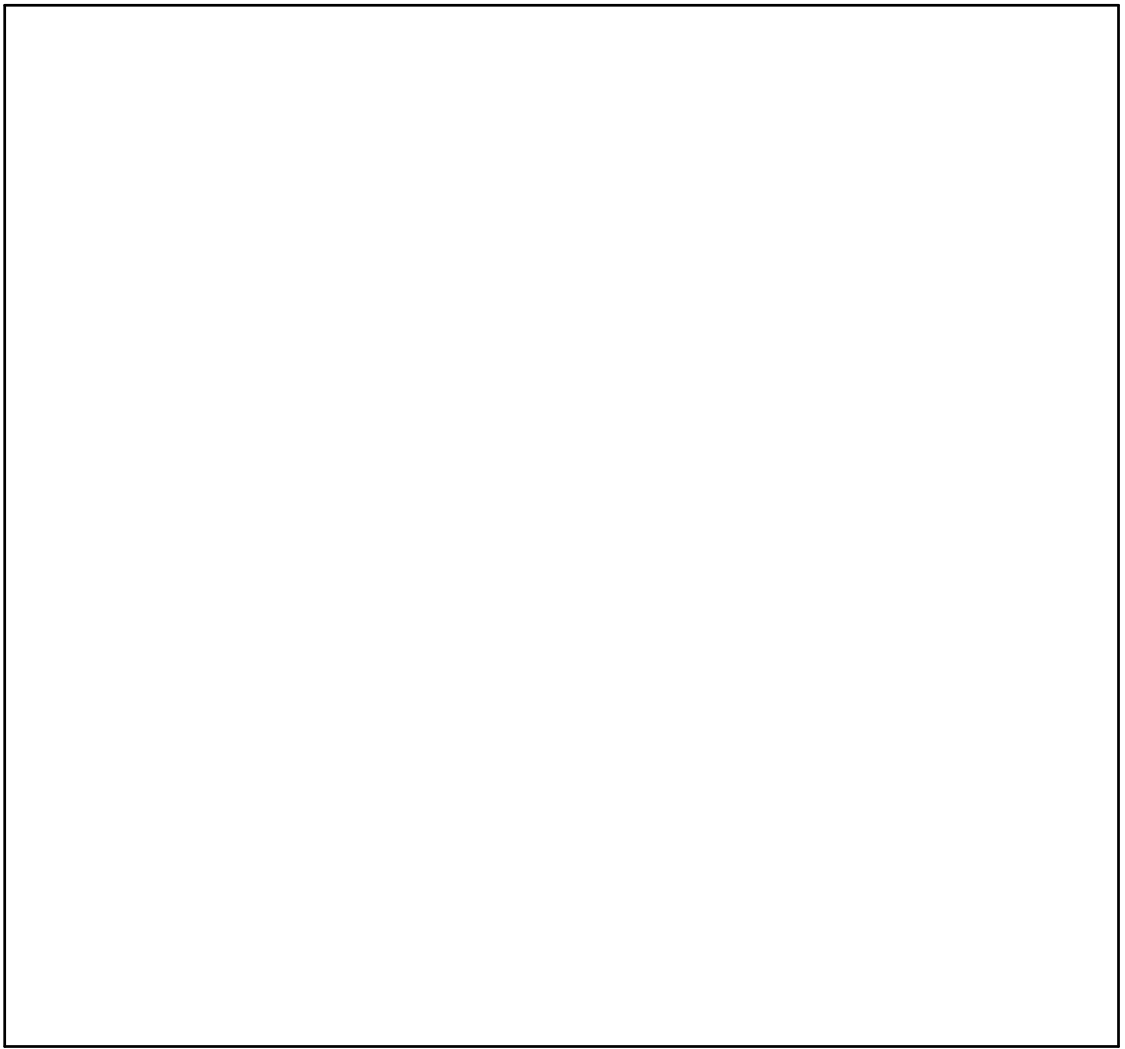


مناطق خضراء
التفاصيل في مخطط LANDSCAPE

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- منسوب عقدة الطابق الثاني +1109.61
- منسوب عقدة طابق السطح +1112.43 وغرف المصاعد

كما ويتوفر في المشروع في الموقع العام
MEDICAL WASTE ROOM
ELECTRIC GENERATOR
UNDERGROUND WATER TANK
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EXTERNAL FIRE ROOM & FIRE TANK



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PROJECT		NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY	
DRG. TITLE	SITE PLAN LOW CURRENT SYSTEM LAYOUT		
DRAWN BY : ELEC.T		SCALE : 1:200	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J		E-003	



NOTES:

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BASIN : 14 TALAT EAWAHAD

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PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

DRG. TITLE GROUND FLOOR
LIGHTING SYSTEM LAYOUT

DRAWN BY : ELEC.T

SCALE: 1:100

DESIGNED BY : A.F

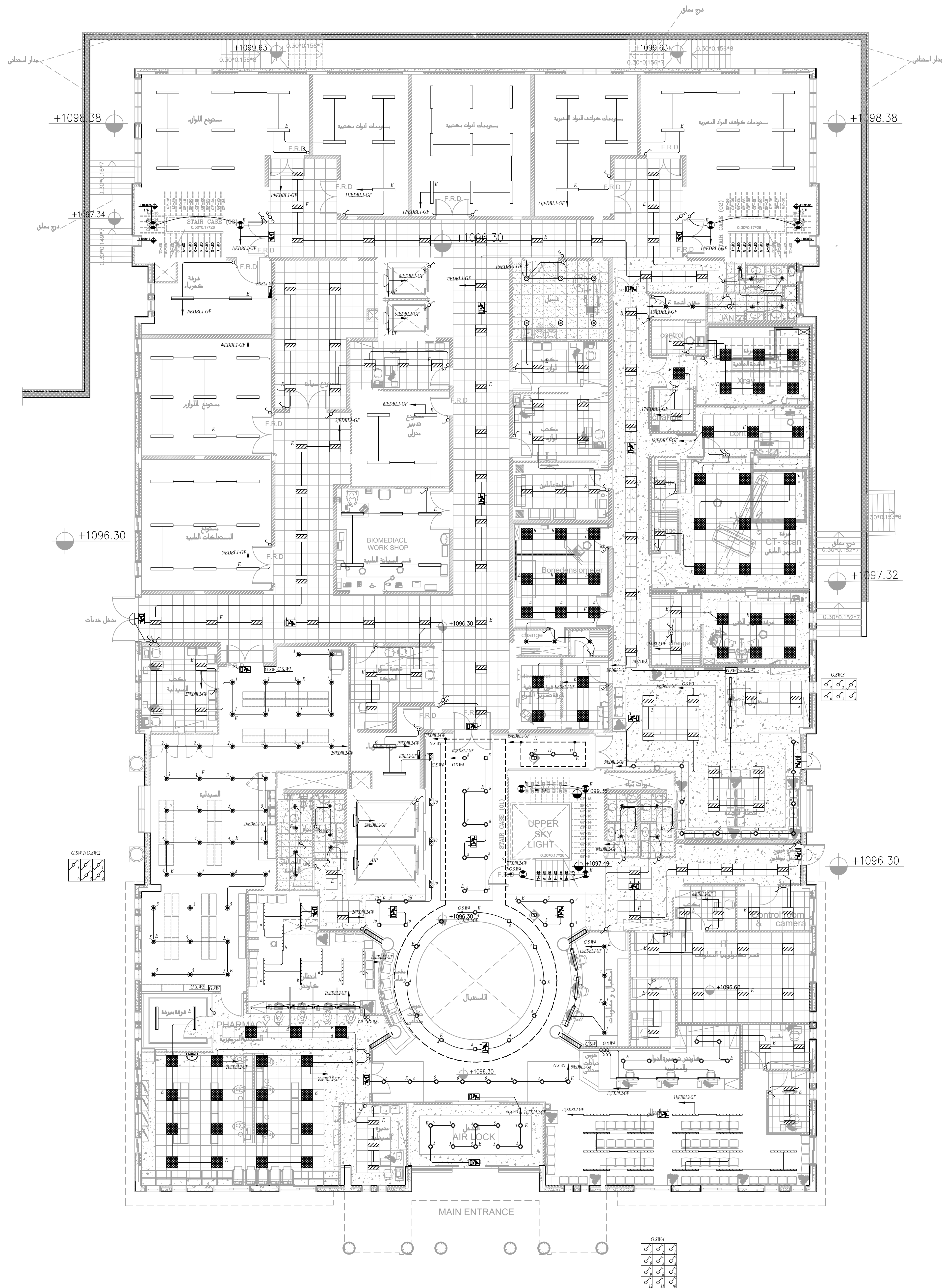
DATE :DEC.-2023

CHECKED BY : S.J

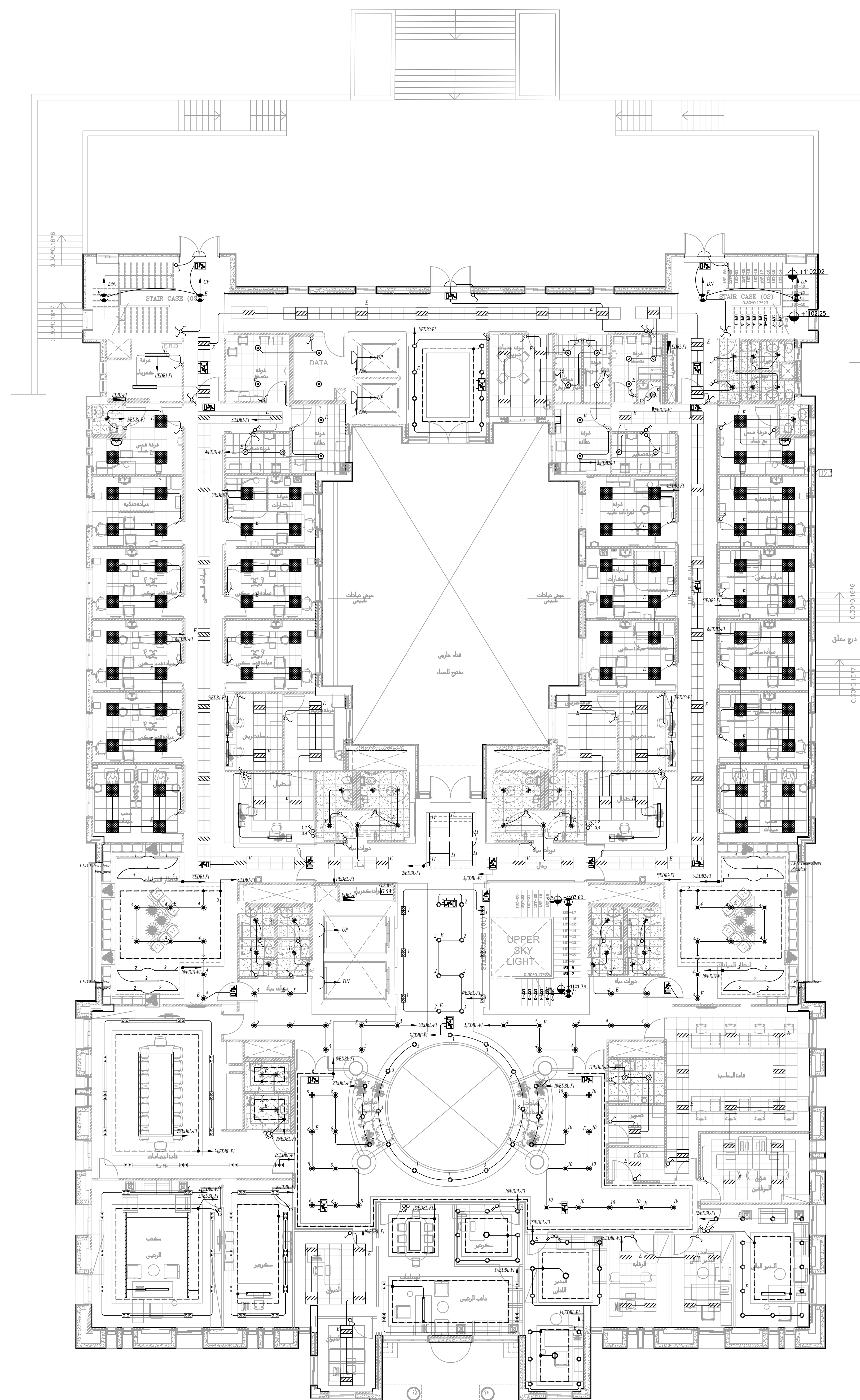
PROJECT No. DRAWING No.

APPROVED BY: S.J

E-100

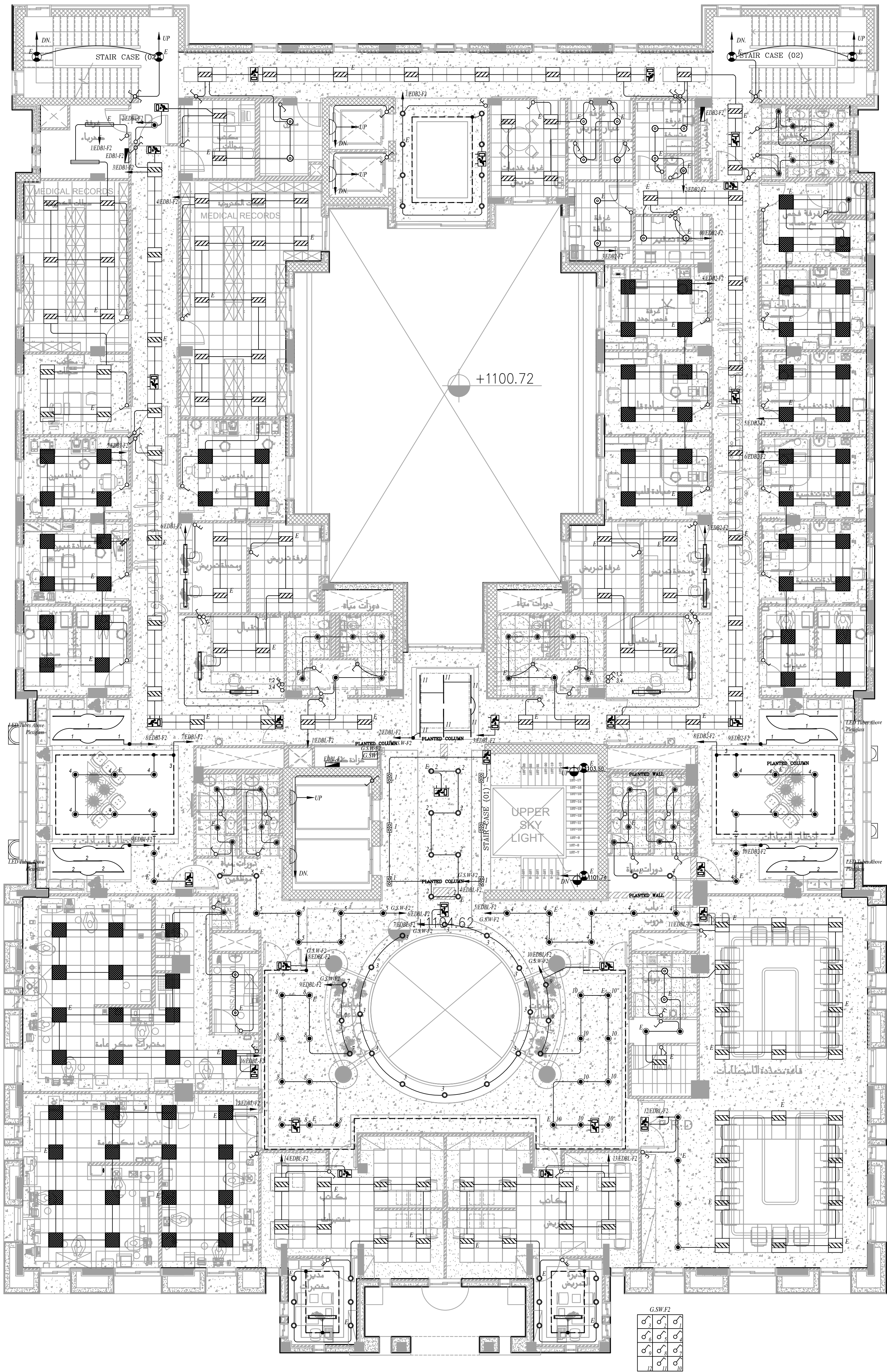


الطابق الارضى



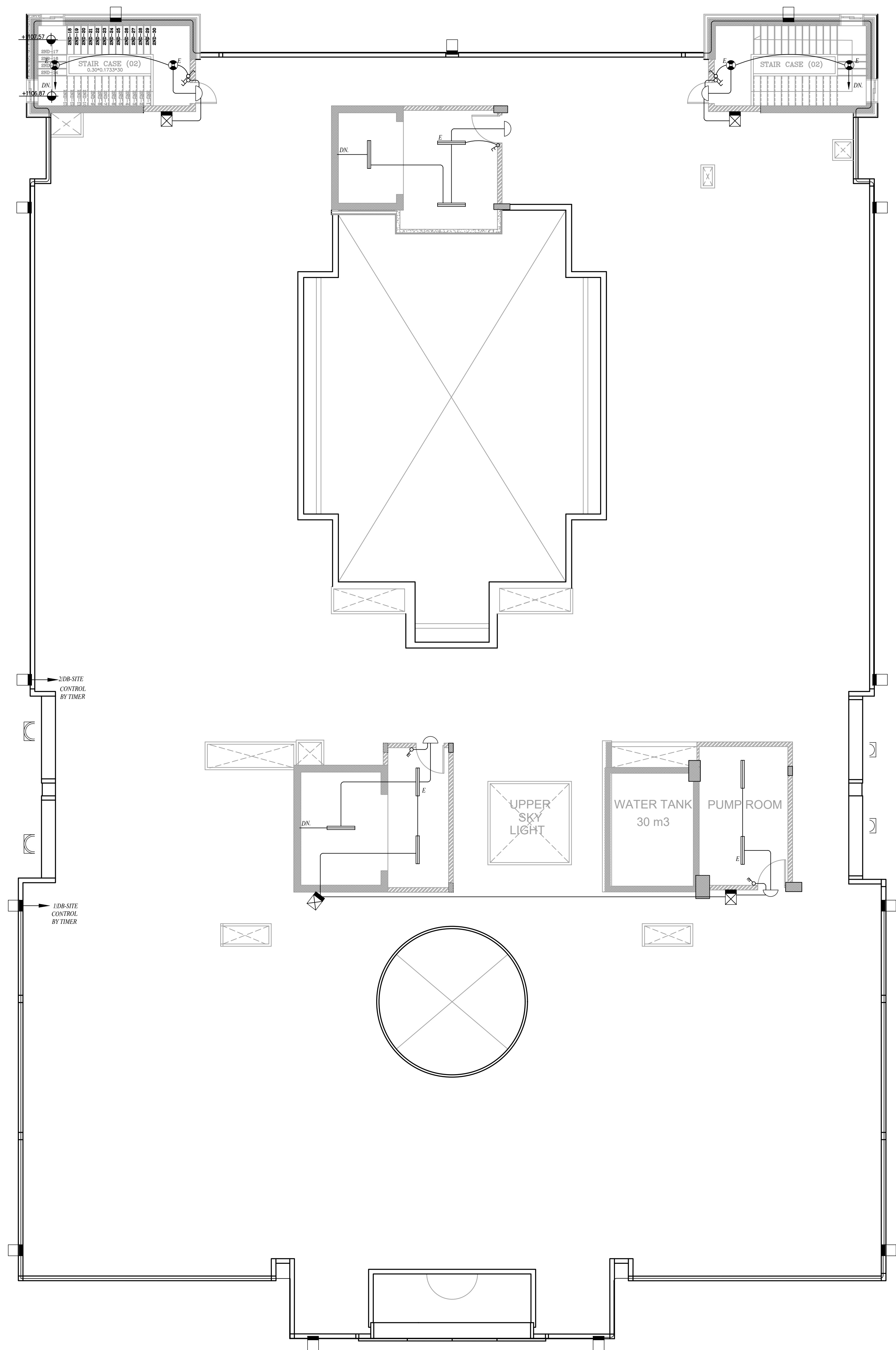
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PROJECT		NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY			
DRG. TITLE		FIRST FLOOR LIGHTING SYSTEM LAYOUT			
DRAWN BY : ELEC.T				SCALE : 1:100	
DESIGNED BY : A.F				DATE : DEC.-2023	
CHECKED BY : S.J				PROJECT NO.	DRAWING NO.
APPROVED BY: S.J				E-101	



NOTES:

PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
REV.	MARK	DATE	MADE BY
REMARKS			
CLIENT THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
M P MADI & PARTNERS CONSULTING ENGINEERS C E TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo			
PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY			
DRG. SECOND FLOOR TITLE LIGHTING SYSTEM LAYOUT			
DRAWN BY : ELEC.T		SCALE : 1:100	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J			E-102

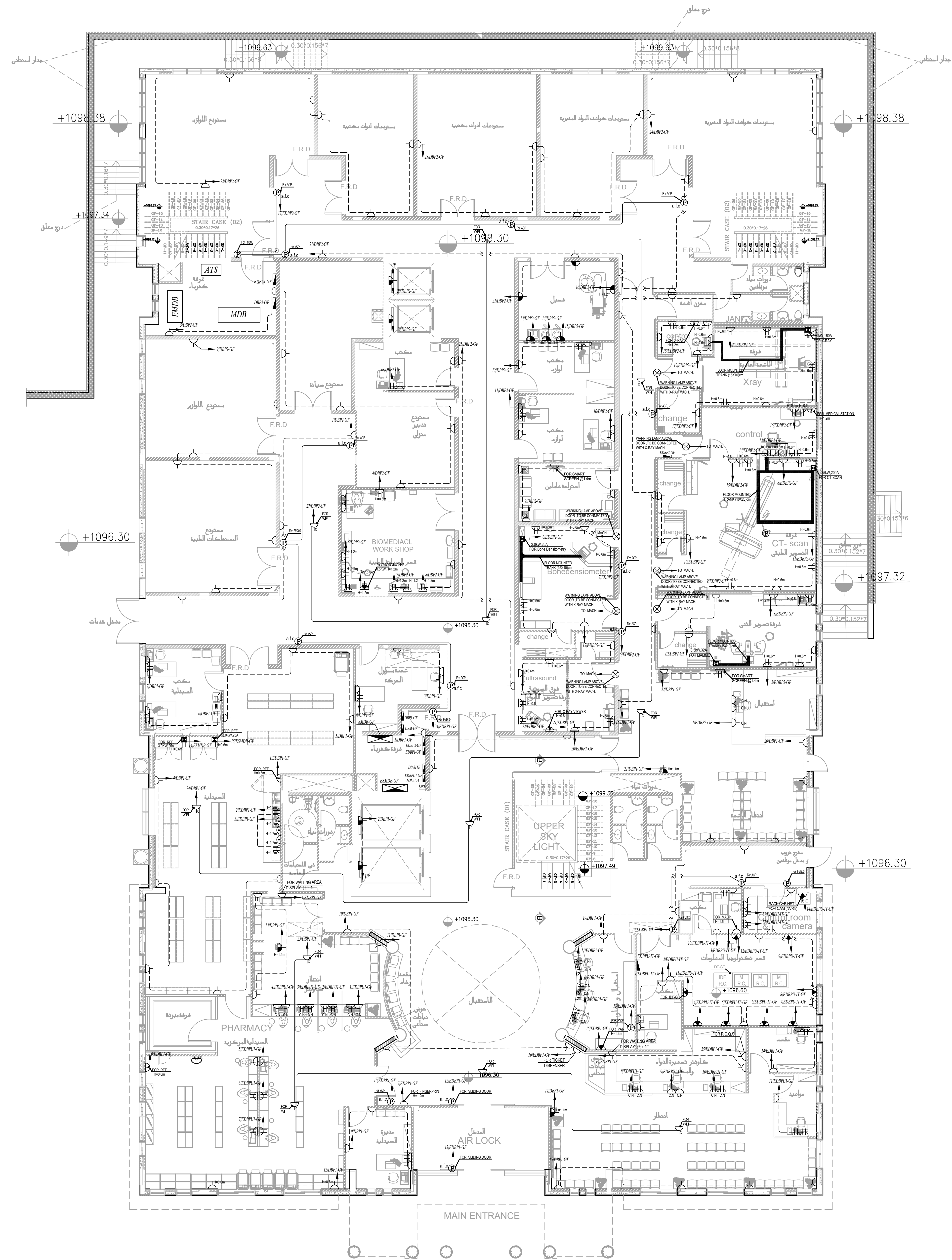


طابق الروف



NOTES:

PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
REV. MARK	DATE	MADE BY	REMARKS
CLIENT THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
M P C E		MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo	
PROJECT		NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY	
DRG. TITLE		ROOF FLOOR LIGHTING SYSTEM LAYOUT	
DRAWN BY : ELEC.T		SCALE : 1:100	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J			E-103

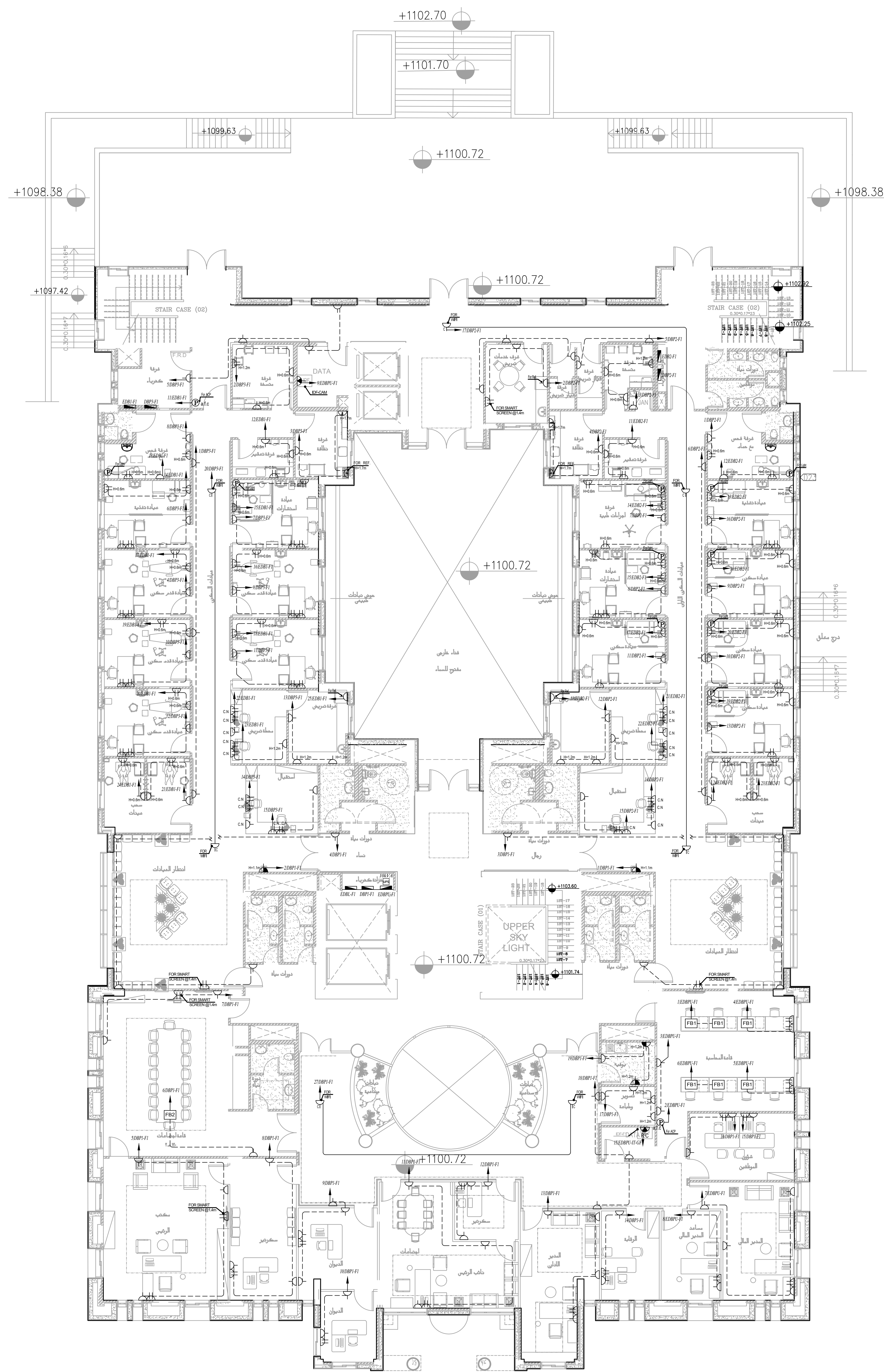


الطابق الارضى



NOTES:

PLOT NO		1	
DISTRICT		KARAK	
BASIN		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	GROUND FLOOR POWER SYSTEM LAYOUT		
DRAWN BY : ELEC.T		SCALE: 1:100	
DESIGNED BY: A.F		DATE :DEC.-2023	
CHECKED BY: S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J		E-200	



الطابق الاول

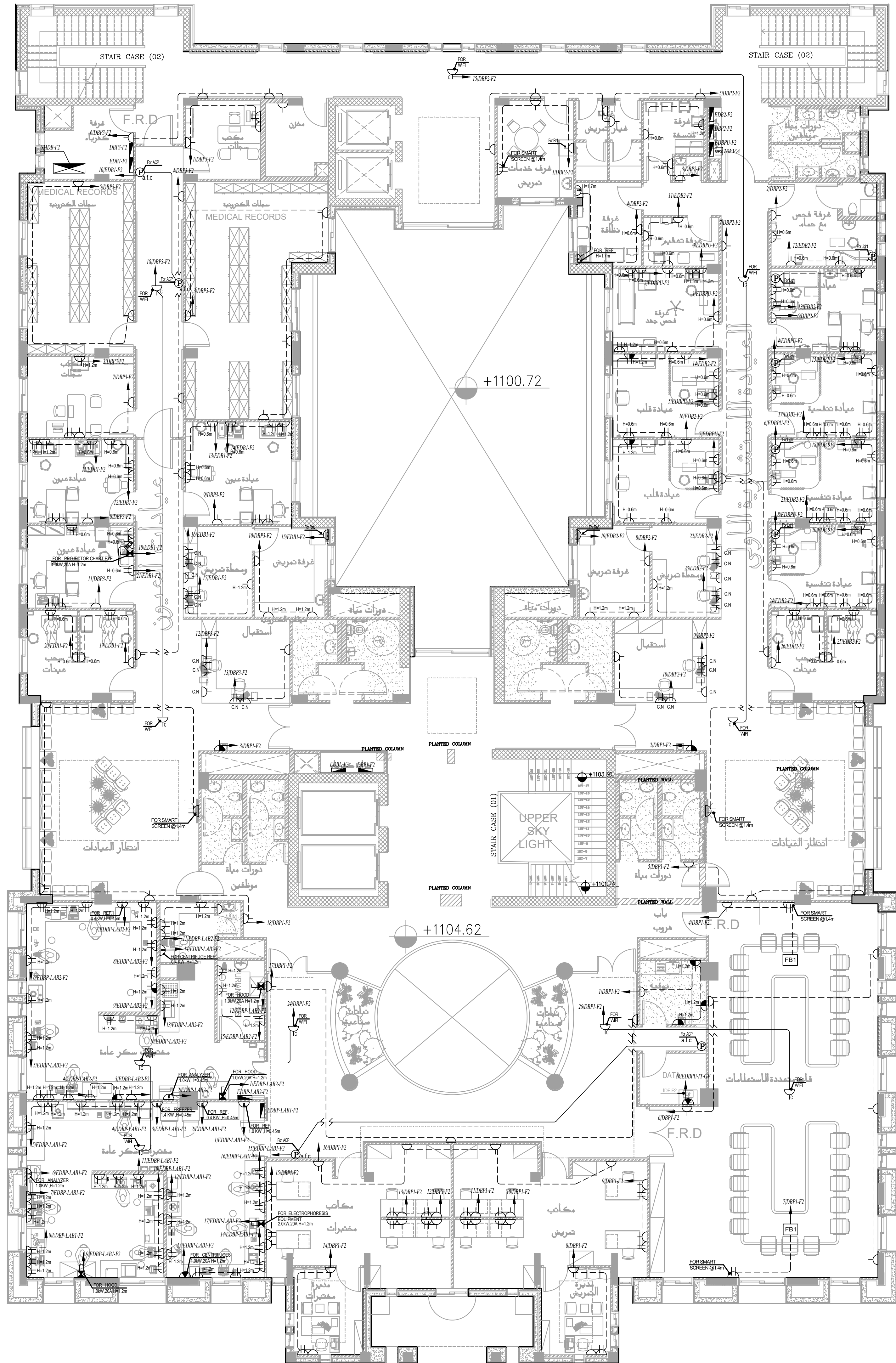


NOTES:

PLOT NO : 1	
DISTRICT : KARAK	
BASIN : 14 TALAT EAWAHAD	
REV. MARK	DATE
MADE BY	
REMARKS	
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY
DRG. TITLE	FIRST FLOOR POWER SYSTEM LAYOUT
DRAWN BY : ELEC.T	
SCALE: 1:100	
DESIGNED BY : A.F	
DATE : DEC.-2023	
CHECKED BY : S.J	
PROJECT No. DRAWING No.	
APPROVED BY: S.J	
E-201	



NOTES:

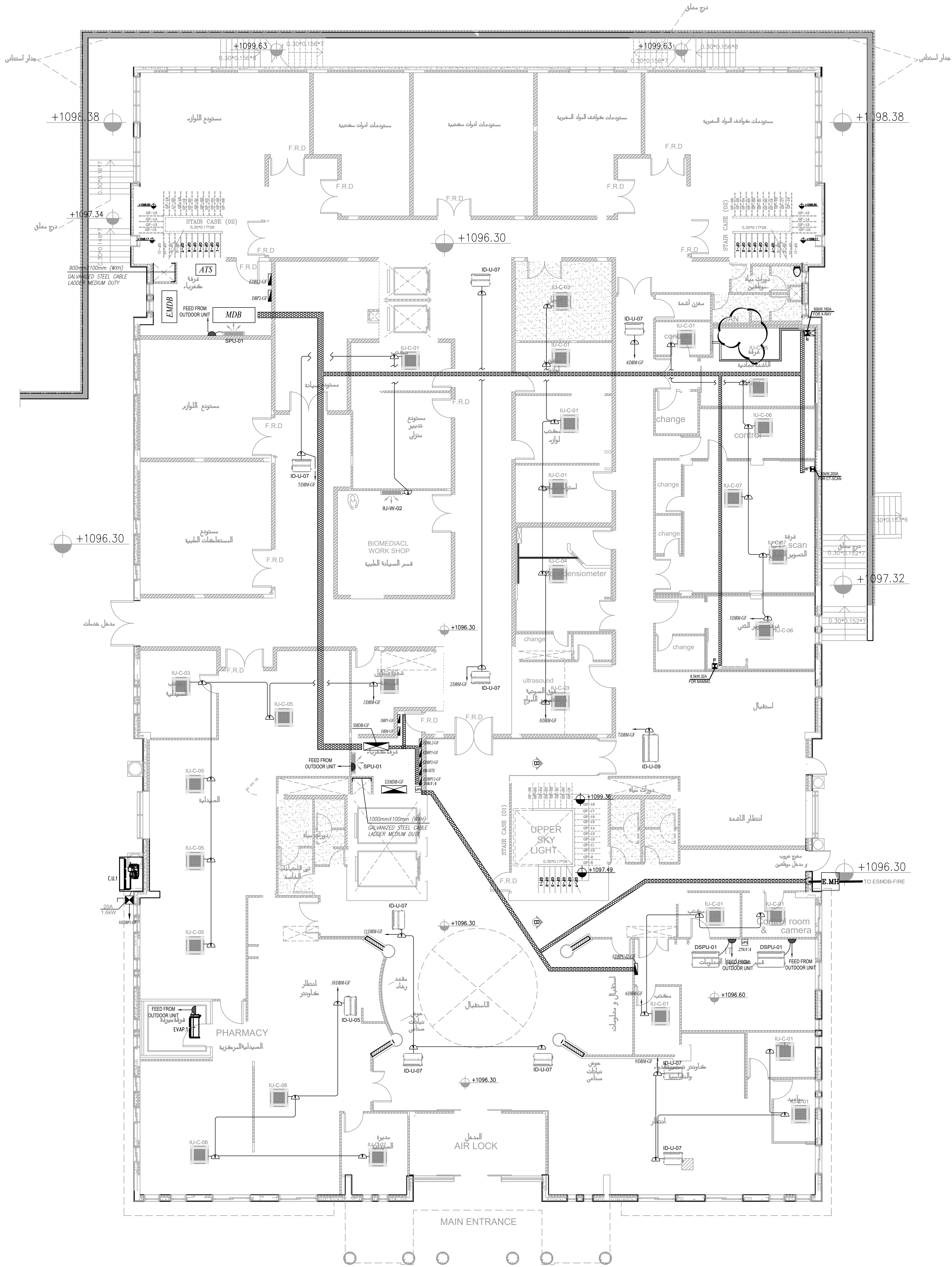


PLOT NO		1	
DISTRICT		KARAK	
BASIN		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
CLIENT THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
M P C E		MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo	
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	SECOND FLOOR POWER SYSTEM LAYOUT		
DRAWN BY : ELEC.T		SCALE: 1:100	
DESIGNED BY : A.F		DATE : DEC. -2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No. E-202
APPROVED BY: S.J			

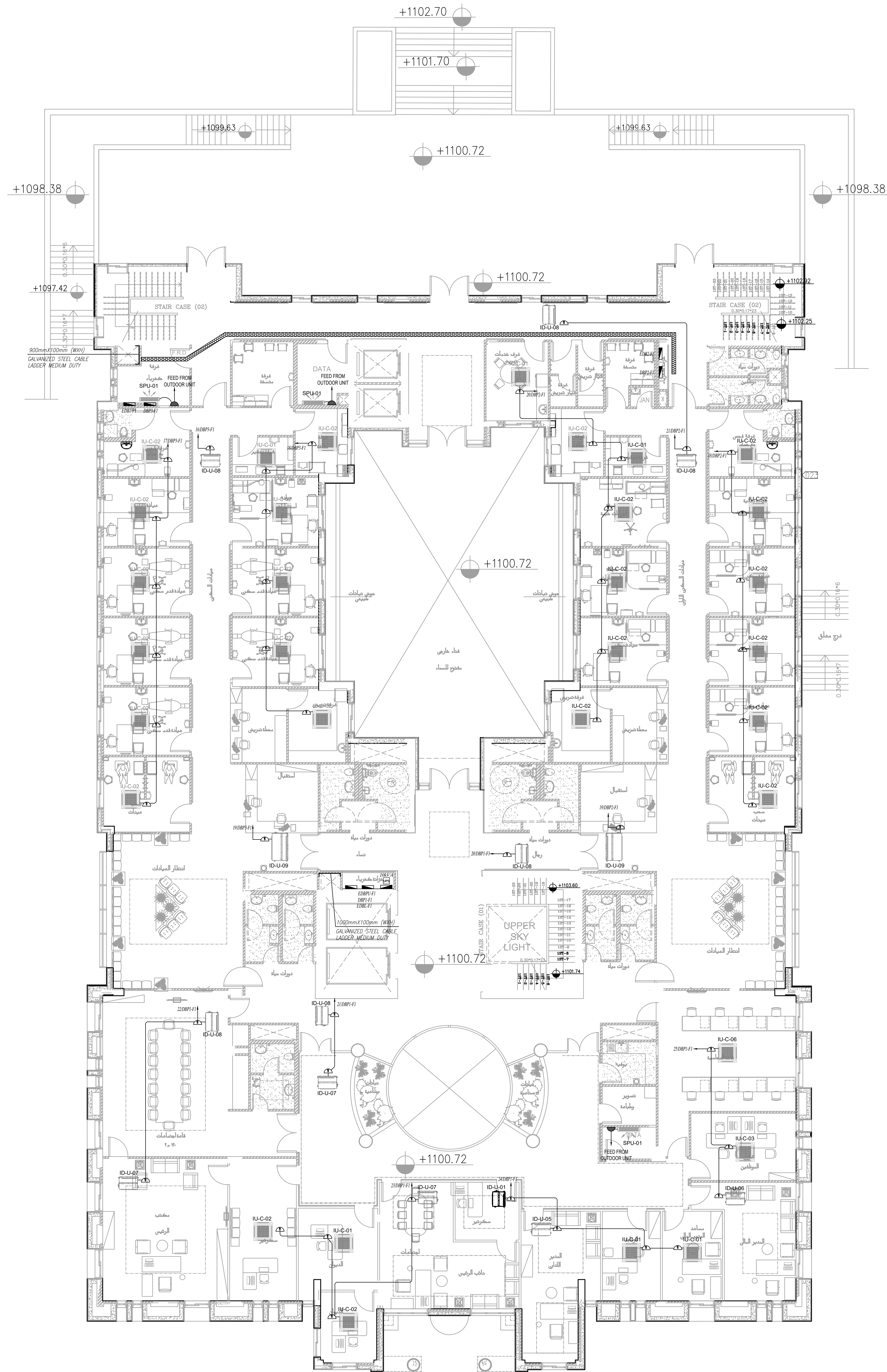


NOTES:

PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY		REMARKS	
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS				
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo				
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY				
DRG. TITLE	GROUND FLOOR POWER FOR MECH. SYSTEM LAYOUT				
DRAWN BY : ELEC.T				SCALE : 1:100	
DESIGNED BY : A.F				DATE : DEC.-2023	
CHECKED BY : S.J				PROJECT No.	DRAWING No. E-300
APPROVED BY: S.J					



الطابق الارضى



الطابق الاول



NOTES:

PLOT NO : 1
DISTRICT : KARAK
BASIN : 14 TALAT EAWAHAD

REV. MARK DATE MADE BY REMARKS
CLIENT THE NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

MP MADI & PARTNERS CONSULTING ENGINEERS
CE TEL.5829640-5829641 FAX.5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

DRG. TITLE FIRST FLOOR
POWER FOR MECH. SYSTEM LAYOUT

DRAWN BY : ELEC.T SCALE : 1:100

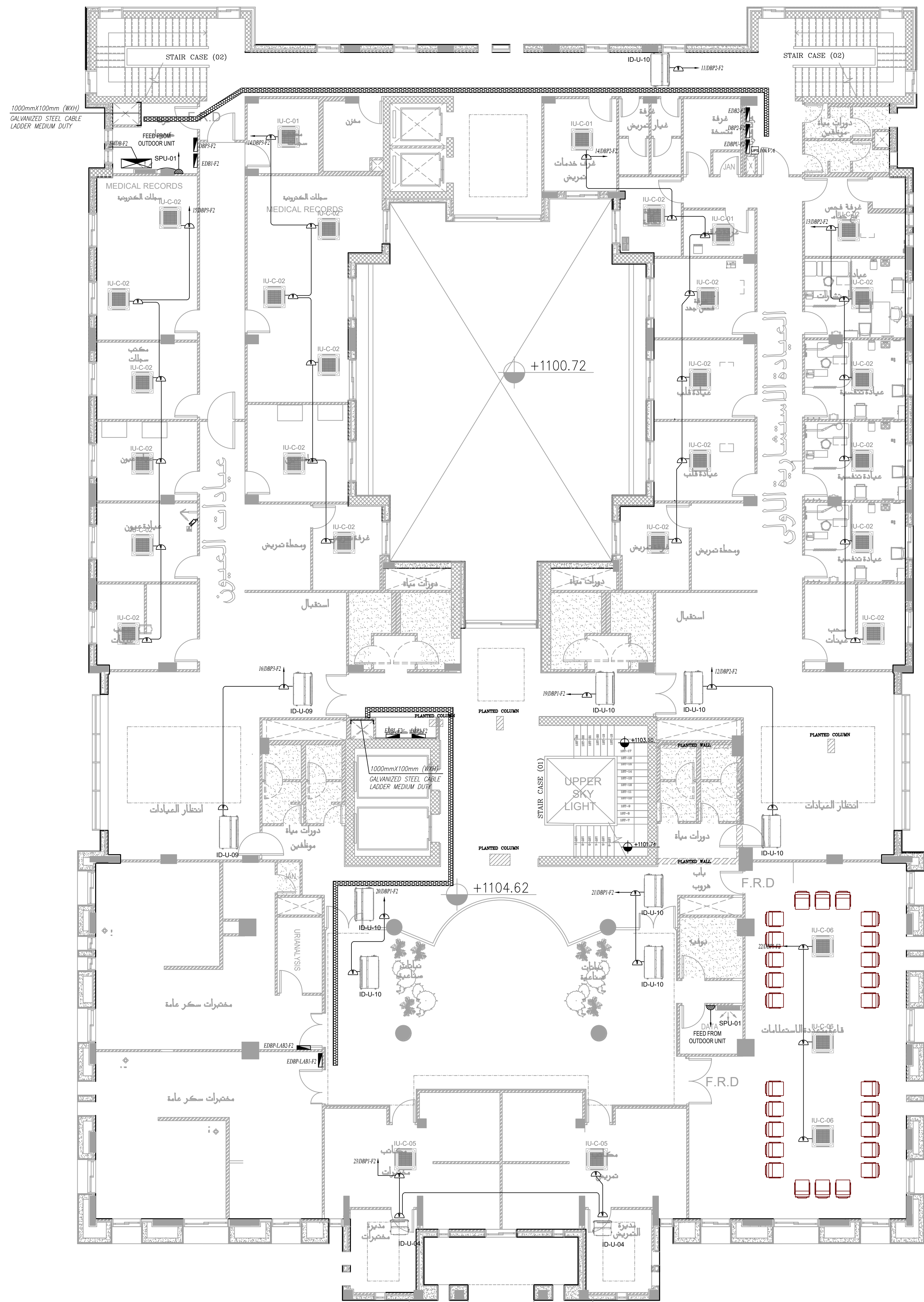
DESIGNED BY : A.F DATE : DEC.-2023

CHECKED BY : S.J PROJECT No. DRAWING No.

APPROVED BY: S.J E-301



NOTES:



الطابق الثاني

PLOT NO : 1

DISTRICT : KARAK

BASIN : 14 TALAT EAWAHAD

REV. MARK DATE MADE BY REMARKS

CLIENT THE NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

M P MADI & PARTNERS CONSULTING ENGINEERS
C E TEL.5829640-5829641 FAX.5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

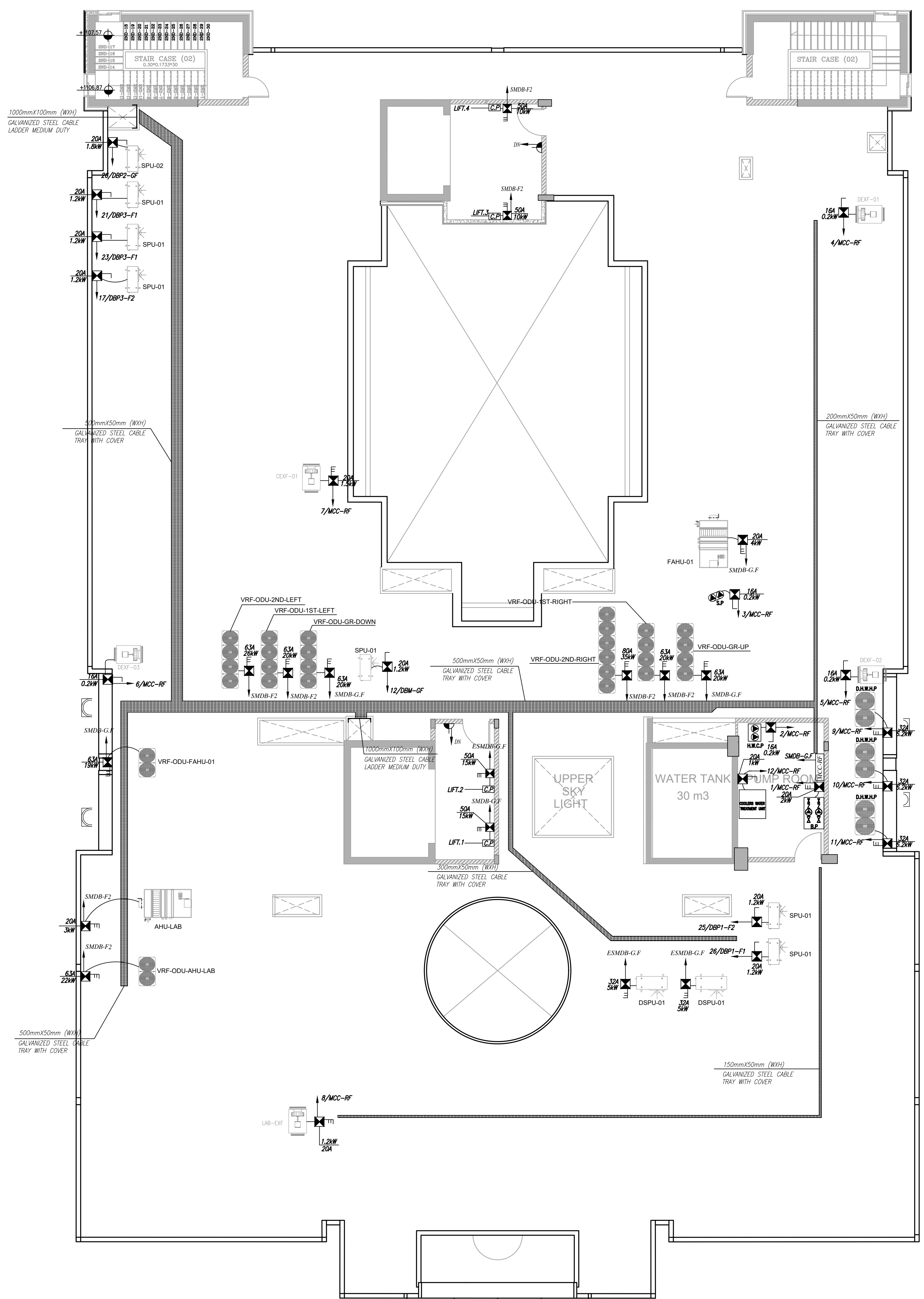
DRG. TITLE SECOND FLOOR
POWER FOR MECH. SYSTEM LAYOUT

DRAWN BY : ELEC.T SCALE : 1:100

DESIGNED BY : A.F DATE : DEC.-2023

CHECKED BY : S.J PROJECT No. DRAWING No.

APPROVED BY: S.J E-302

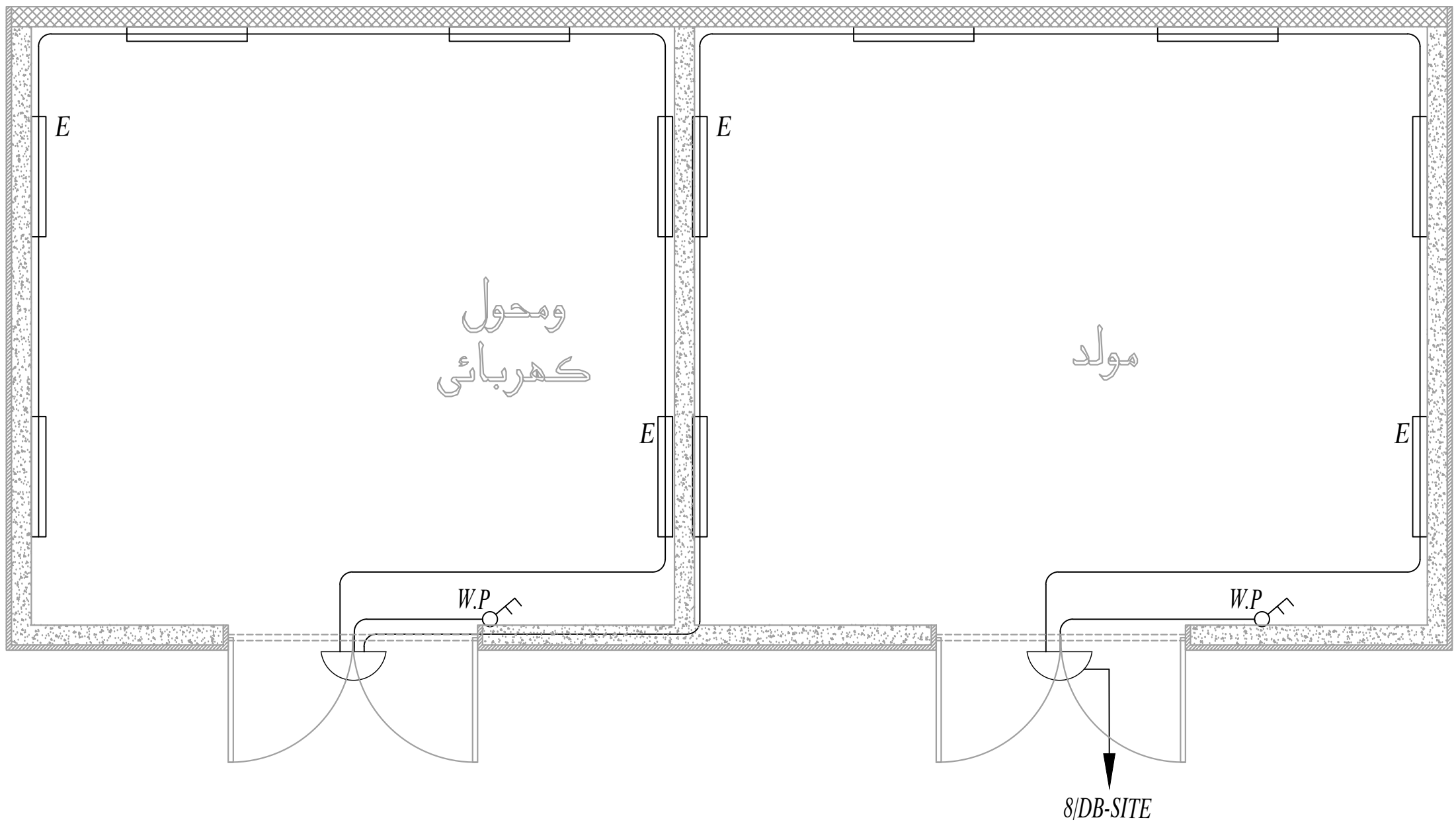


طابق الروف

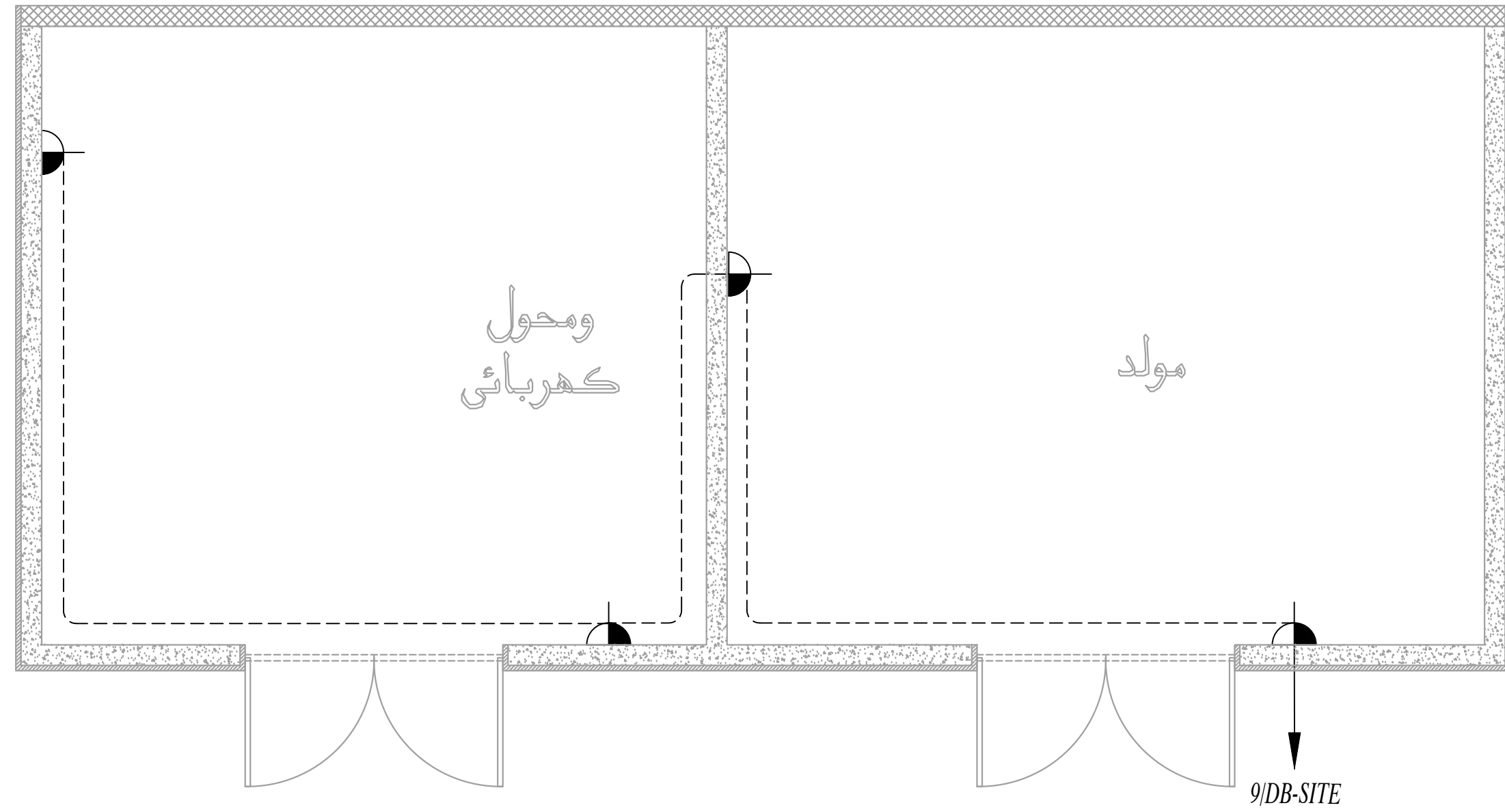


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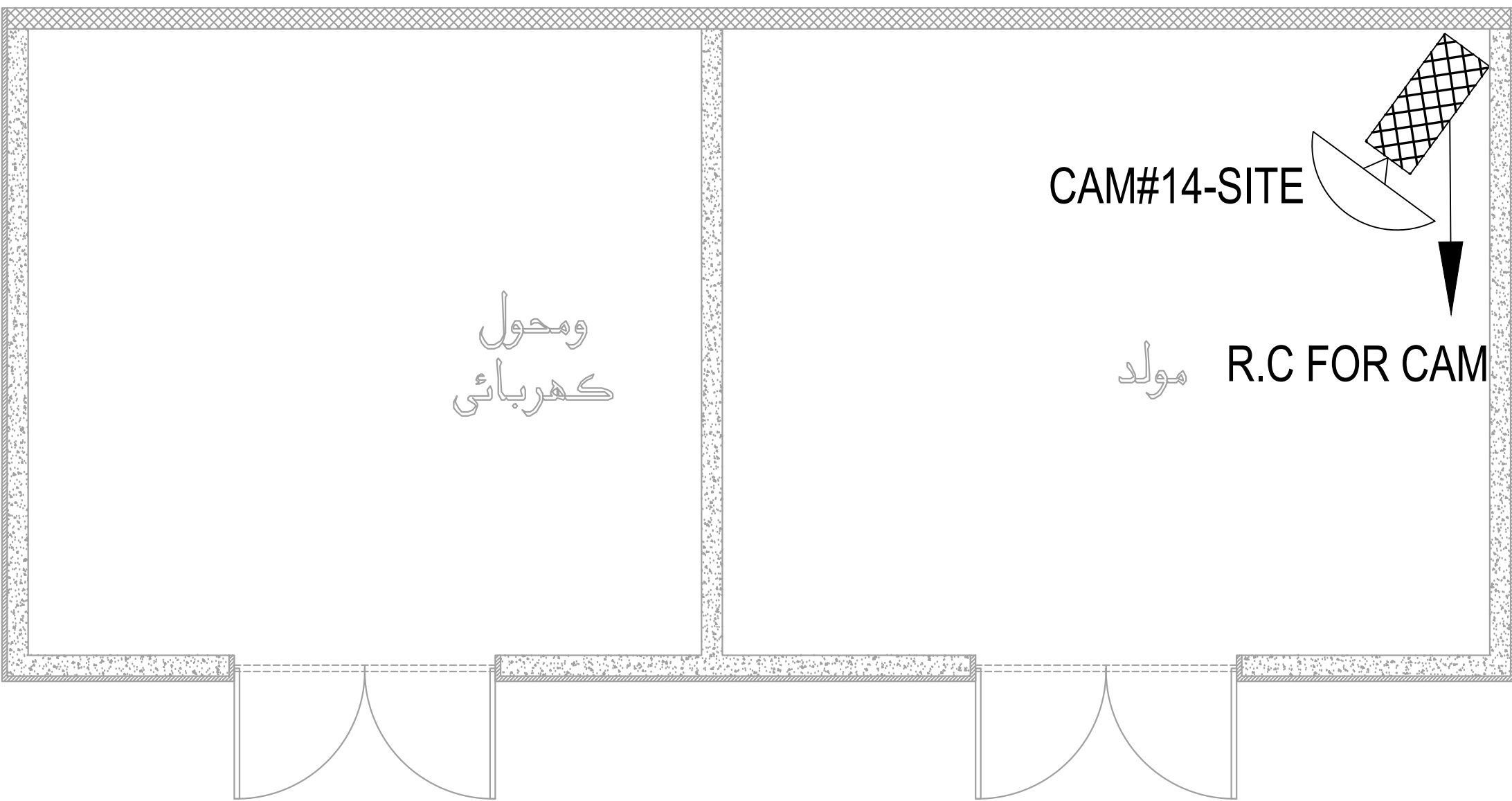
PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
REV. MARK	DATE	MADE BY	REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
MP CE	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	ROOF FLOOR POWER FOR MECH. SYSTEM LAYOUT		
DRAWN BY : ELEC.T		SCALE : 1:100	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J			E-303



LIGHTING SYSTEM



POWER SYSTEM

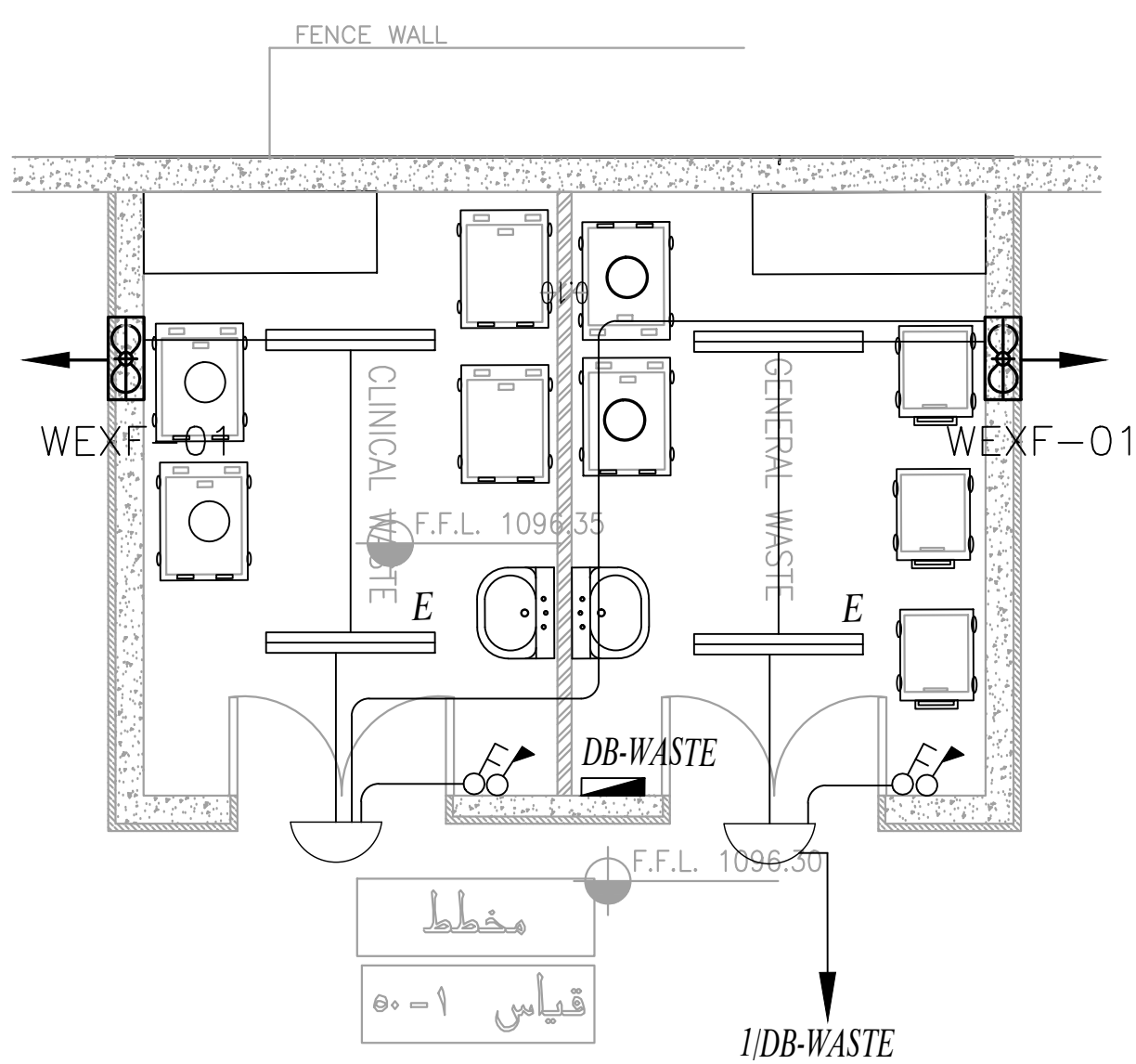


CCTV SYSTEM

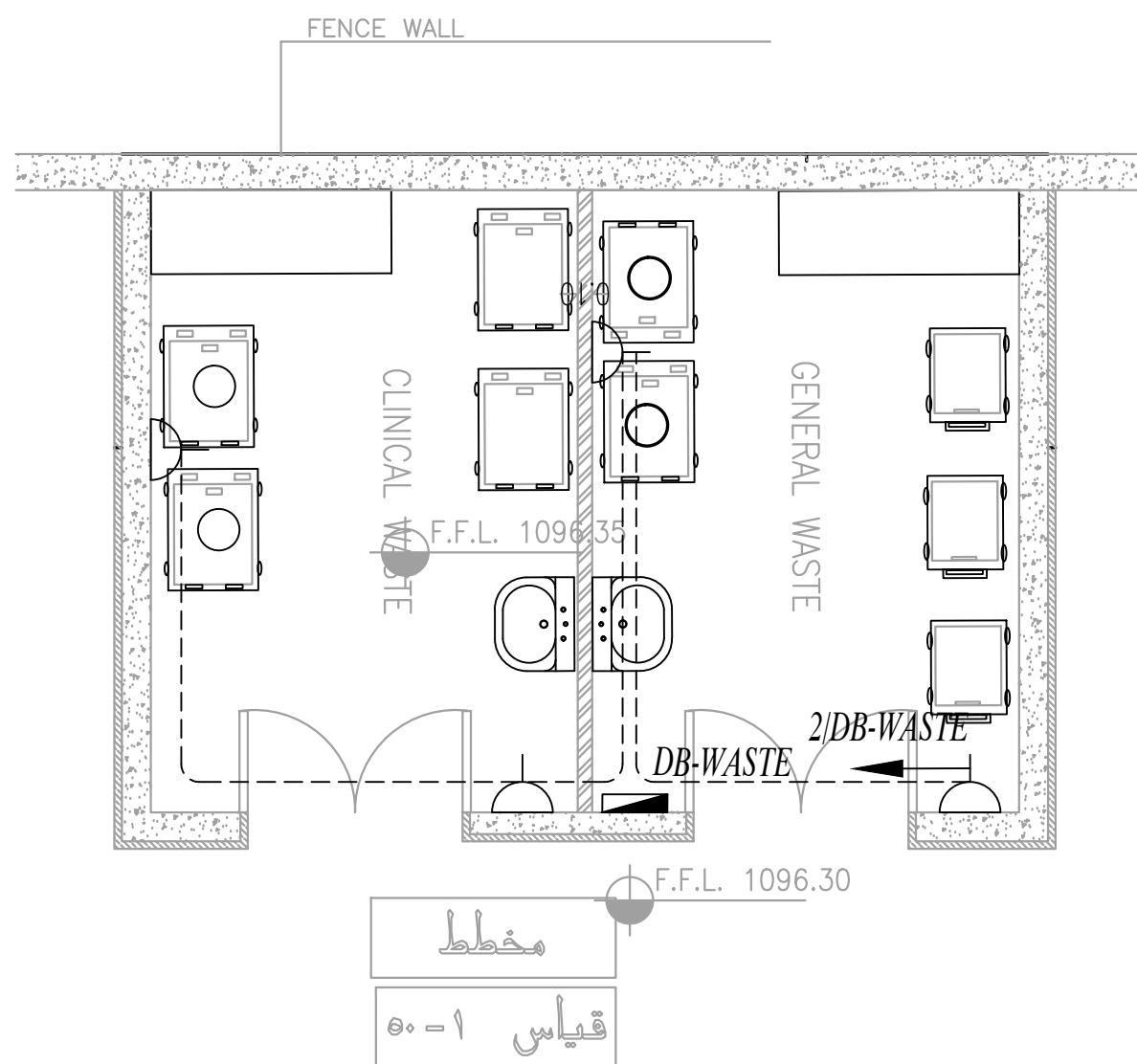


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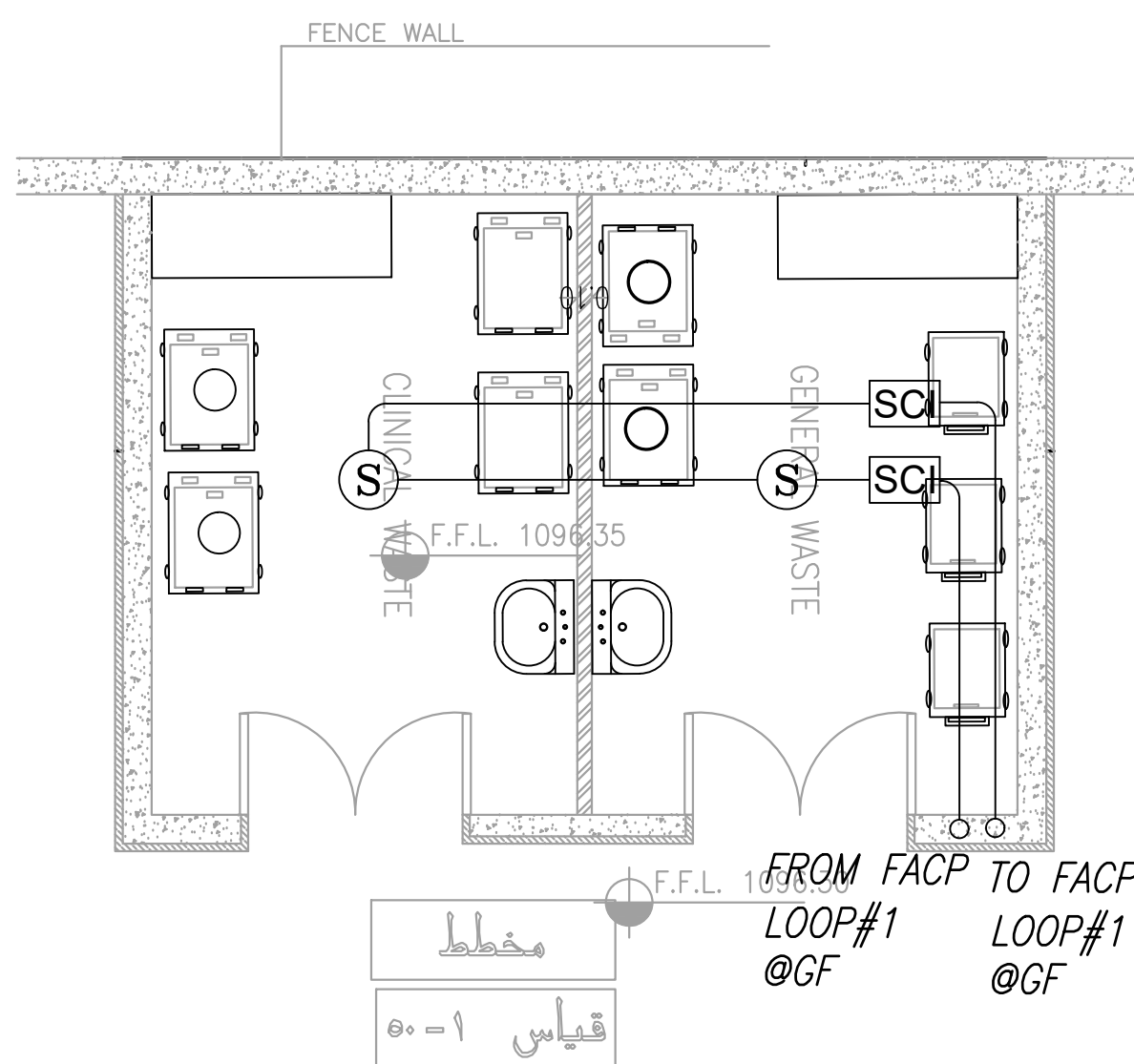
PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
V. MARK	DATE	MADE BY	REMARKS		
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS				
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo				
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY				
DRG. TITLE	GENERATOR AND TRANSFORMER ROOM – AND GENERAL WASTE ELECTRICAL SYSTEMS LAYOUT				
DRAWN BY : ELECT			SCALE : 1:50		
DESIGNED BY : A.F			DATE : DEC.-2023		
CHECKED BY : S.J			PROJECT No.		
APPROVED BY: S.J			DRAWING No. E-400		



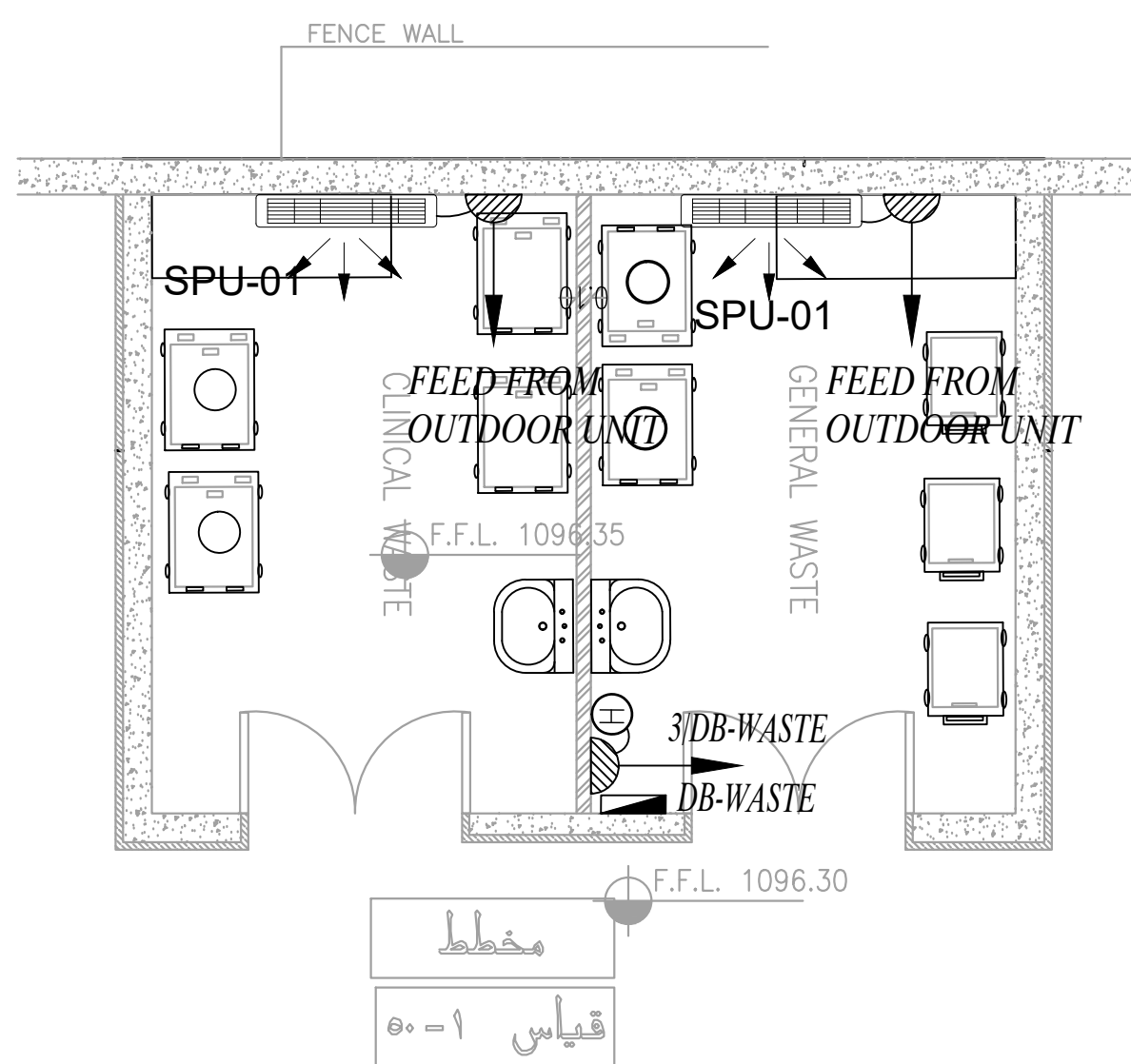
LIGHTING SYSTEM



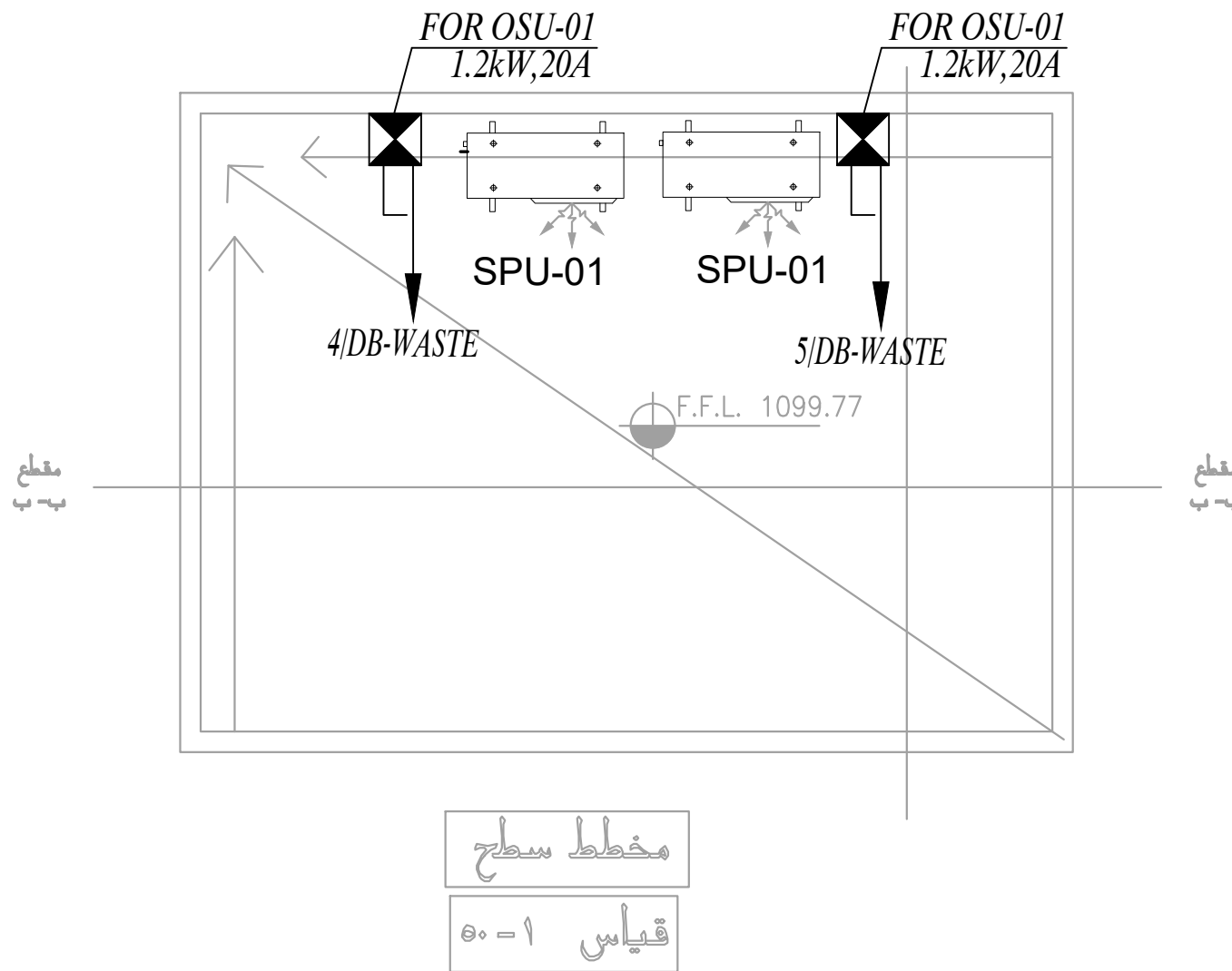
POWER SYSTEM



FIRE ALARM SYSTEM



POWER FOR MECH. SYSTEM



DISTRIBUTION PANEL BOARD											
PROJECT:	Diabetes-Karak		LOCATION:		WATER ROOM		PANEL REF:		DB-WASTE		
VOLTAGE & FREQ. : 1PHASE, 230V, 50HZ					CABLE SIZE			3x10mm ² Cu/XLPE/PVC			
					MAIN SUPPLY FROM:			MDB			
Designation Load	Wire size mm ²	Phase Load In W	Trip Rating				Phase Load In W	Wire size mm ²	Designation Load		
	CB NO	TRIP R	CB NO	TRIP R	CB NO	TRIP R					
LIGHTING	2.5	250	1	10	16	2	800	4	SOCKET OUTLETS		
E.H.W	4	1500	3	20	20	4	1200	4	SPU-01		
SPU-01	4	1200	5	20	16	8			SPARE		
SPARE	7	15	16	8					SPARE		
Subtotal		2500					2500				
32MCCB											
Total Connected W	4950			Lighting	Socket	MISC	TOTAL				
DEMAND LOAD W	4045.0		Connected W	250	800	3500	4950				
			DEMAND FACT	1	0.8	0.85					
PANEL LOAD kW	4.0		W	250	480	3315	4045				
FULL LOAD CURRENT INCLUDING FUTURE LOAD (A) (10%)	20.7										

NOTES:

PLOT NO : 1

DISTRICT : KARAK

BASIN : 14 TALAT EAWAHAD

REV. MARK DATE MADE BY REMARKS

CLIENT THE NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

MP MADI & PARTNERS CONSULTING ENGINEERS
CE TEL:5829640-5829641 FAX:5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

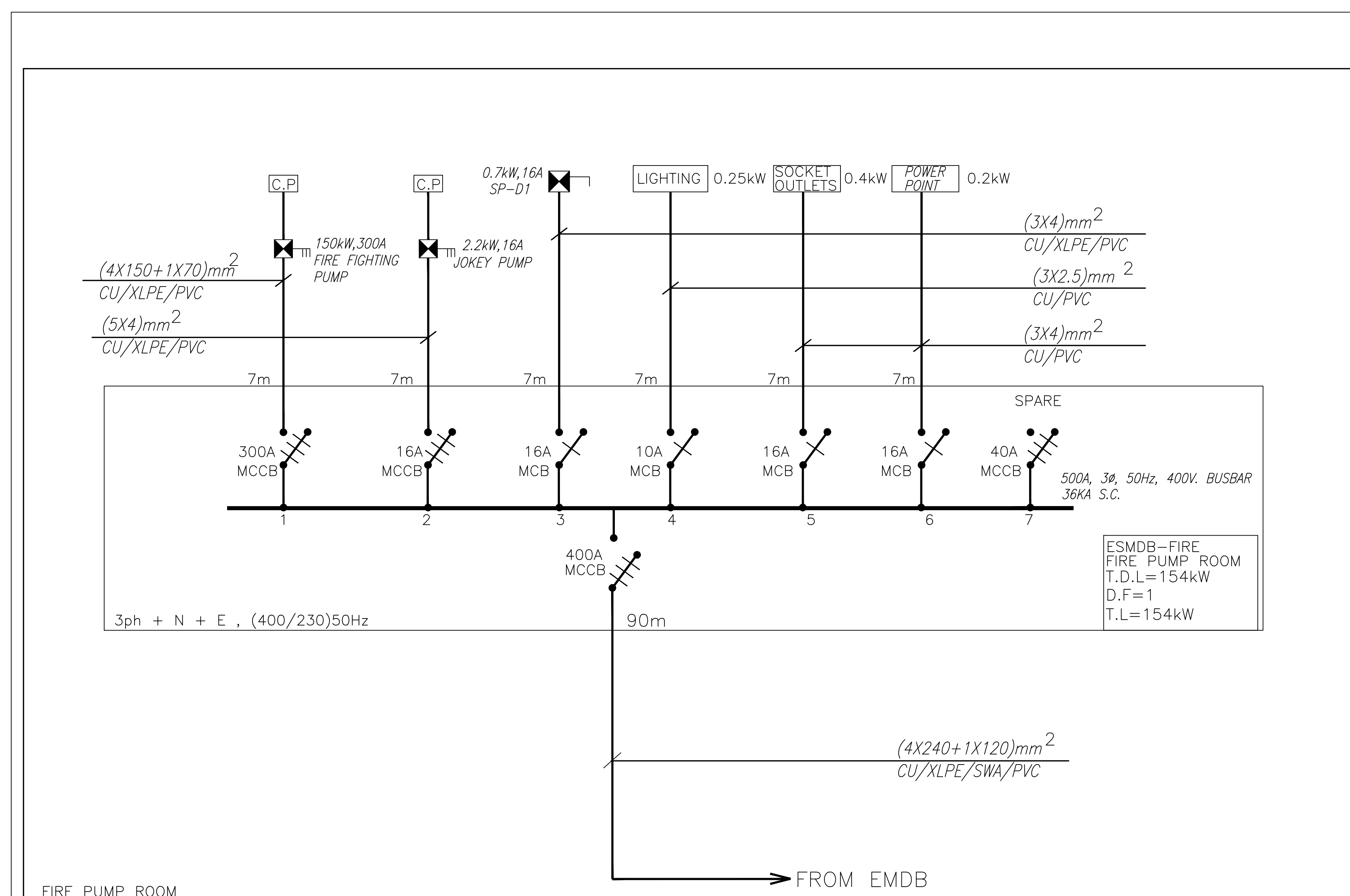
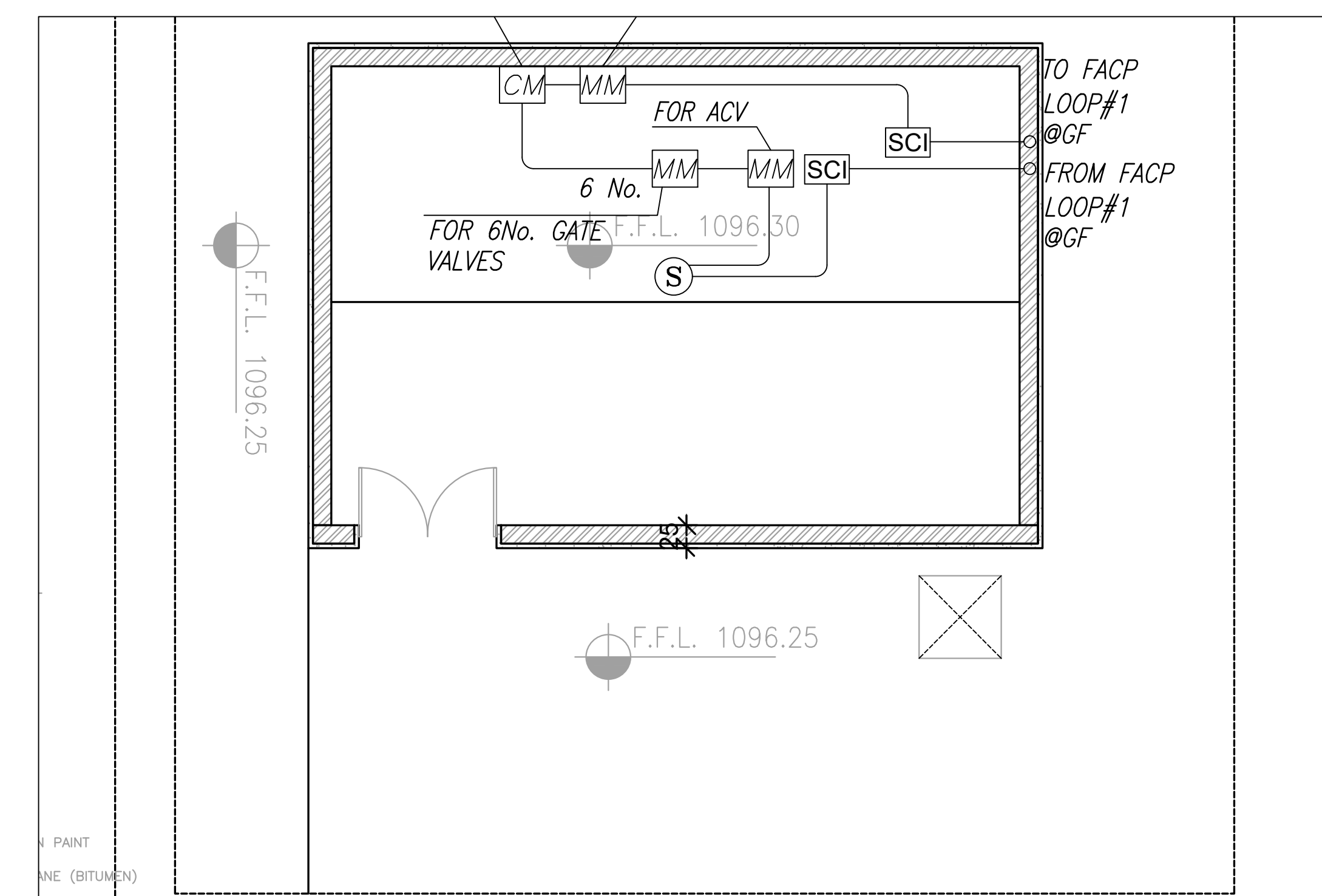
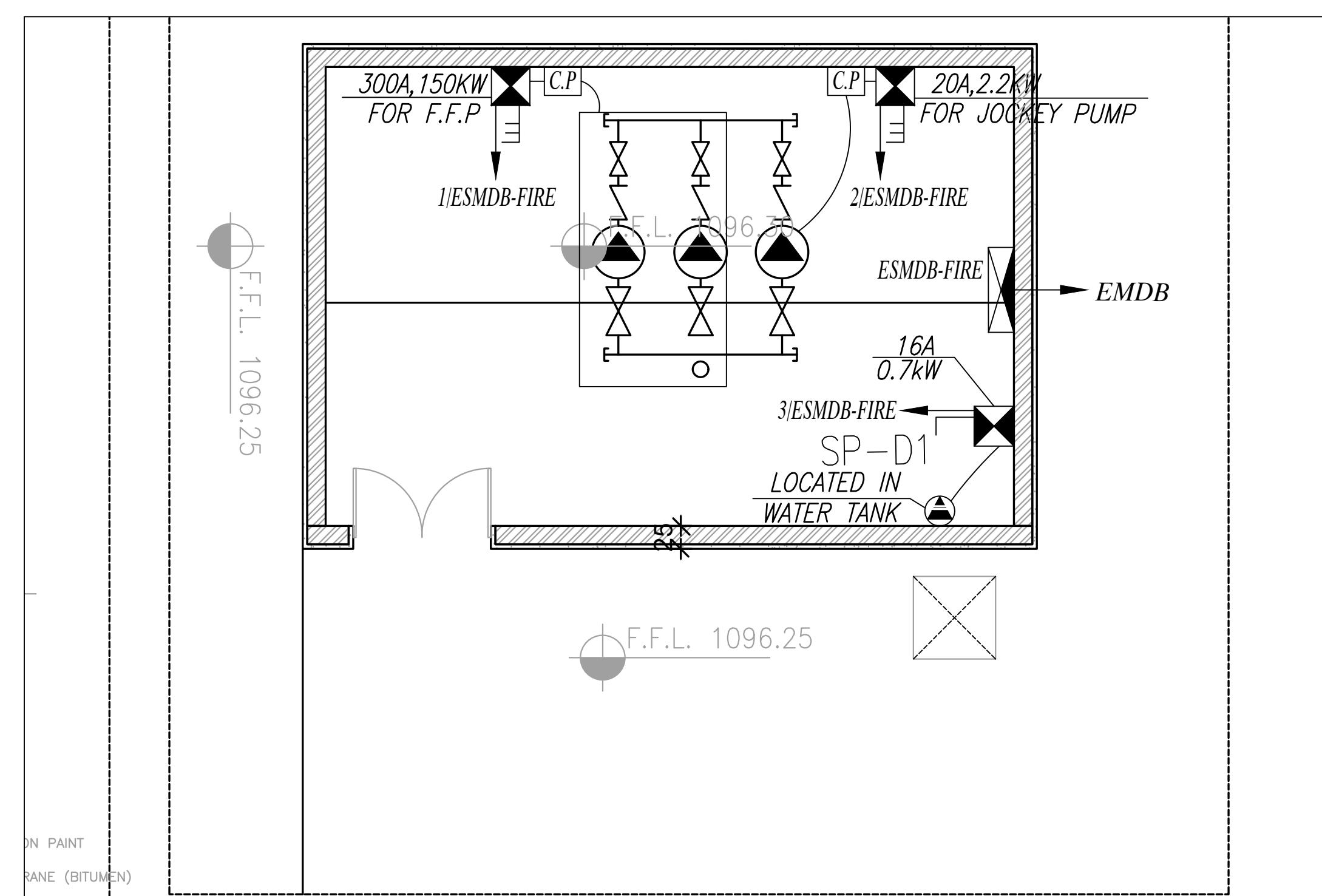
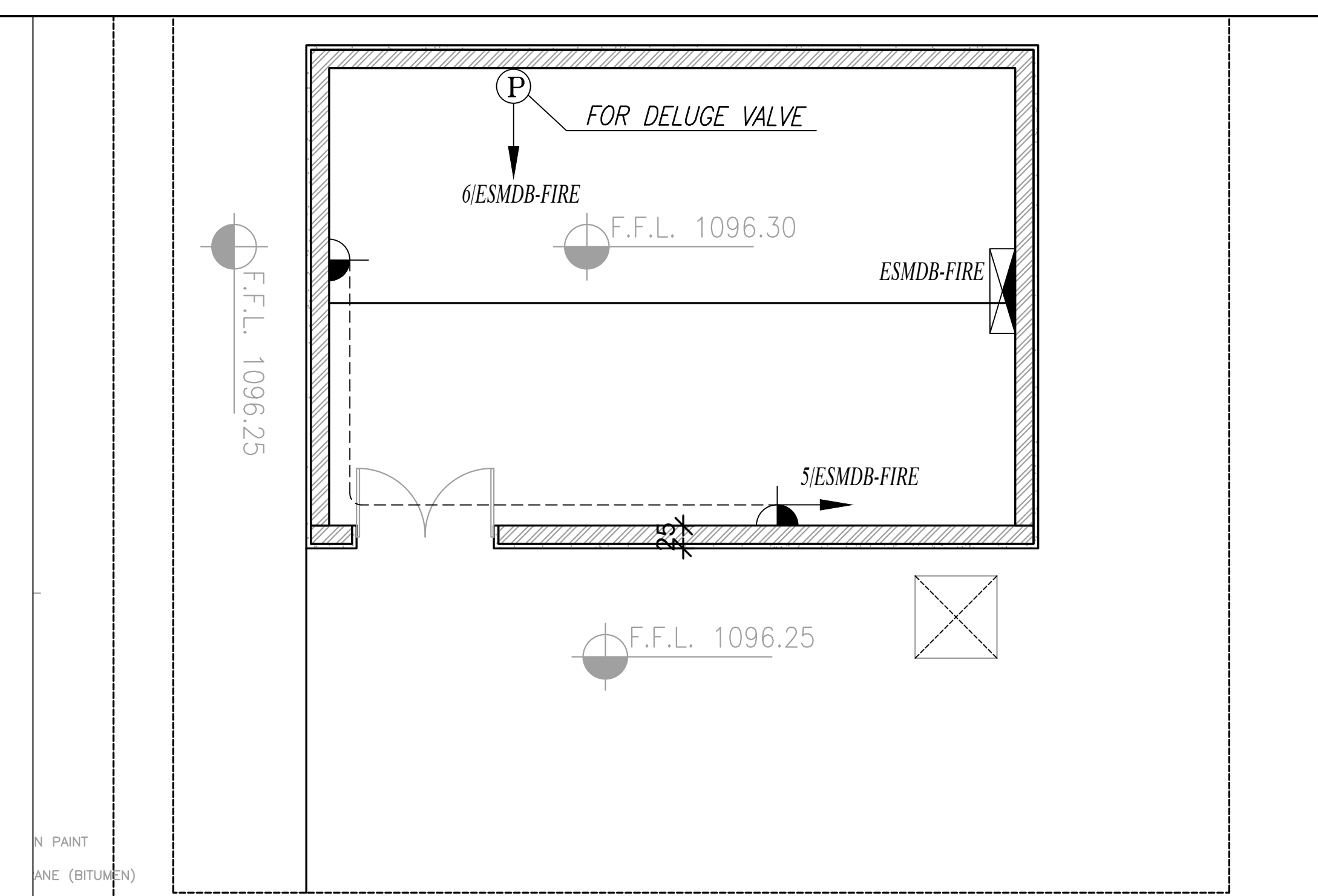
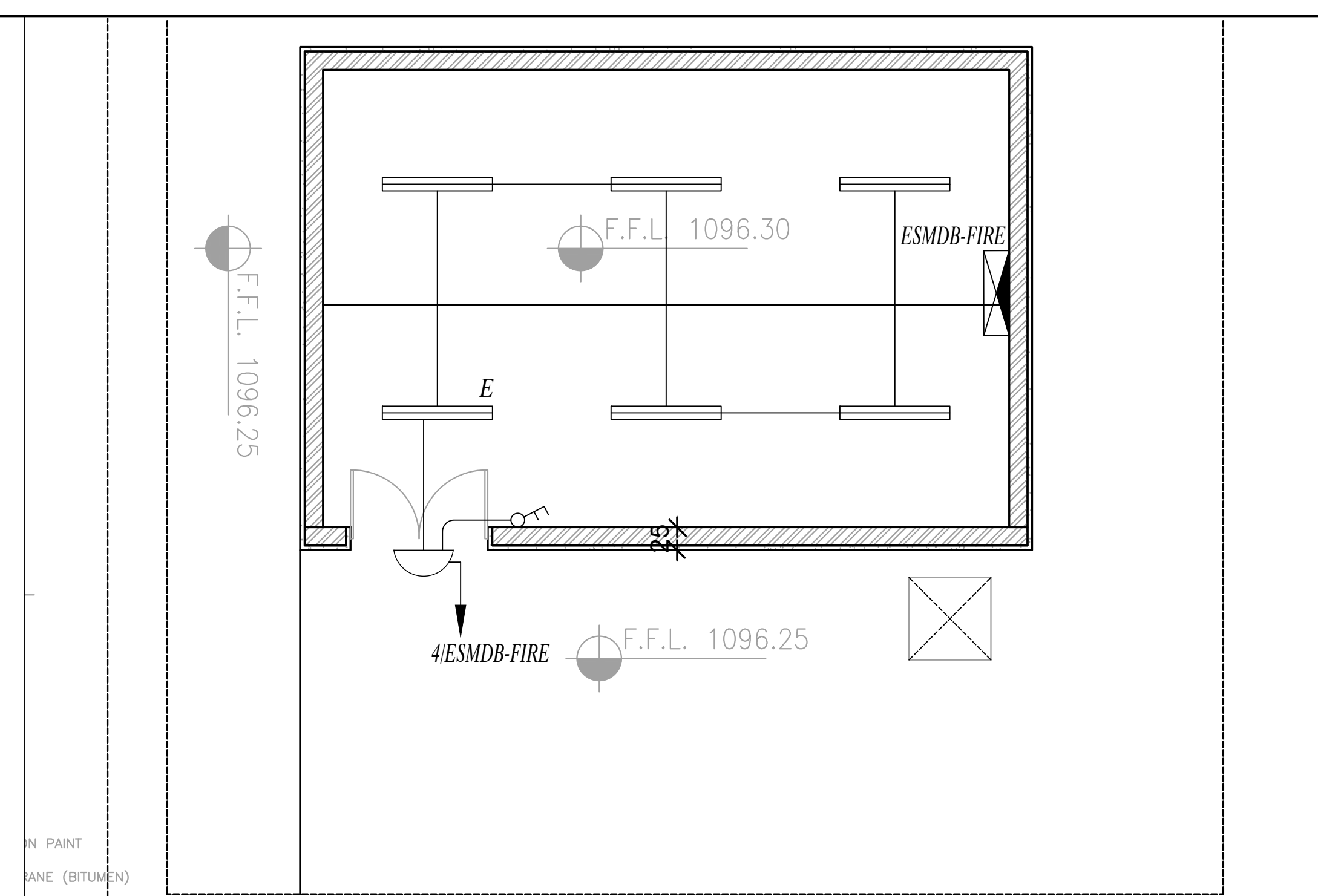
DRG. GENERAL WASTE ROOM
TITLE ELECTRICAL SYSTEM LAYOUT

DRAWN BY : ELEC.T SCALE: 1:50

DESIGNED BY : A.F DATE : DEC.-2023


CHECKED BY : S.J PROJECT No. DRAWING No.


APPROVED BY: S.J E-401



NOTES:

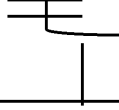
PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY		REMARKS	
CLIENT		THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
M P C E		MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo			
PROJECT		NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY			
DRG. TITLE		FIRE ROOM: ELECTRICAL SYSTEM LAYOUT			
DRAWN BY : ELEC.T				SCALE: 1:50	
DESIGNED BY : A.F				DATE : DEC. - 2023	
CHECKED BY : S.J				PROJECT No.	
APPROVED BY : S.J				DRAWING No. E-402	

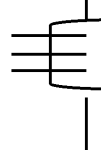
DISTRIBUTION PANEL BOARD																				
PROJECT:	Diabetes-Karak				LOCATION:				GROUND FLOOR				PANEL REF:				DBP1-GF			
VOLTAGE & FREQ. : 3PHASE, 400/230V, 50HZ											CABLE SIZE				(4X16+1X16)mm2 Cu/XLPE/PVC					
											MAIN SUPPLY FROM:				SMDB-GF					
Designation Load	wire size mm2	Phase Load In W			Trip Rating						Phase Load In W			wire size mm2	Designation Load					
		R	Y	B	CT NO	MCB (A)	R	Y	B	CT NO	MCB (A)	R	Y			B				
SOCKET OUTLETS	4	600			1	16		16	2	600		4	SOCKET OUTLETS							
SOCKET OUTLETS	4		700		3	16		16	4		1000	4	SOCKET OUTLETS							
SOCKET OUTLETS	4			600	5	16		16	6		700	4	SOCKET OUTLETS							
SOCKET OUTLETS	4	500			7	16		16	8	500		4	SOCKET OUTLETS							
SOCKET OUTLETS	4		700		9	16		16	10		600	4	SOCKET OUTLETS							
SOCKET OUTLETS	4			600	11	16		16	12		600	4	SOCKET OUTLETS							
FOR WATER COOLER	4	200			13	16		16	14	200		4	SOCKET OUTLETS							
FOR WATER COOLER	4		800		15	16		16	16			SPARE								
SPARE					17	16		16	18			4	SOCKET OUTLETS							
SOCKET OUTLETS	4	600			19	16		16	20	800		4	SOCKET OUTLETS							
FOR WATER COOLER	4		200		21	16		16	22		500	4	SOCKET OUTLETS							
SOCKET OUTLETS	4			1000	23	16		16	24		600	4	SOCKET OUTLETS							
SOCKET OUTLETS	4	600			25	16		16	26			SPARE								
SPARE					27	16		16	28			SPARE								
SPARE					29	16		16	30			SPARE								
Subtotal		2500		2400	2200					2100				2100	1900					
40A MCCB																				
Total Connected W		4600	4500	4100					Lighting		Socket Outlet		MISC		TOTAL					
CONNECTED LOAD W		13200.0				Connected W				R	Y	B	4600	4600						
DEMAND LOAD W		7920.0				DEMAND FACT				R	Y	B	4100	4100						
PANEL LOAD kW		7.92				Demand W				R	Y	B	2760	2760						
										R	Y	B	2700	2700						
										R	Y	B	2480	2460						
FULL LOAD CURRENT INCLUDING FUTURE LOAD (A) (20%)																				
16.1																				

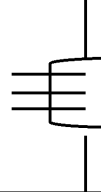
DISTRIBUTION PANEL BOARD																
PROJECT:	Diabetes-Karak			LOCATION:	GROUND FLOOR			PANEL REF:			EDBL1-GF					
VOLTAGE & FREQ. : 3PHASE, 400/230V, 50HZ											CABLE SIZE		(4X16+1X16)mm2 Cu/XLPE/PVC			
											MAIN SUPPLY FROM:		EMDB			
Designation Load	wire size mm2	Phase Load In W			Trip Rating			Phase Load In W			wire size mm2	Designation Load				
		R	Y	B	CT NO	MCB (A)	R Y B	CT NO	MCB (A)	R	Y	B				
LIGHTING	2.5	300			1	10		2	350				2.5	LIGHTING		
LIGHTING	2.5		400		3	10		10	4		250		2.5	LIGHTING		
LIGHTING	2.5			250	5	10		10	6		350		2.5	LIGHTING		
LIGHTING	2.5	350			7	10		10	8		100		2.5	LIGHTING		
LIGHTING	2.5		200		9	10		10	10		400		2.5	LIGHTING		
LIGHTING	2.5			400	11	10		10	12		250		2.5	LIGHTING		
LIGHTING	2.5	400			13	10		10	14		300		2.5	LIGHTING		
LIGHTING	2.5		150		15	10		10	16		350		2.5	LIGHTING		
LIGHTING	2.5			300	17	10		10	18		450		2.5	LIGHTING		
SPARE					19	10		10	20					SPARE		
SPARE					21	10		10	22					SPARE		
SPARE					23	10		10	24					SPARE		
Subtotal		1050	750	950				750 1000 1050								
40A MCCB																
Total Connected W		1800	1750	2000				Lighting	Socket Outlet	MISC	TOTAL					
CONNECTED LOAD W		5550.0				Connected W	R	1800	0		1800					
							Y	1750	0		1750					
							B	2000	0		2000					
DEMAND LOAD W		5550.0				DEMAND FACT		1	0.6	0.85						
PANEL LOAD kW		5.55				Demand W	R	1800	0		1800					
							Y	1750	0		1750					
							B	2000	0		2000					
FULL LOAD CURRENT INCLUDING FUTURE LOAD (A) (20%)																
11.3																

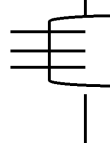
DISTRIBUTION PANEL BOARD																
PROJECT:	Diabetes-Karak		LOCATION:		GROUND FLOOR		PANEL REF:		EDBP2-GF							
									CABLE SIZE							
									MAIN SUPPLY FROM:							
VOLTAGE & FREQ. : 3PHASE, 400/230V, 50HZ																
Designation Load		wire size mm2	Phase Load In W			Trip Rating			Phase Load In W			wire size mm2	Designation Load			
			R	Y	B	CT NO	MCB (A)	R	Y	B	CT NO	MCB (A)	R	Y	B	
SOCKET OUTLETS	4	800				1	16				2	800			4	
SOCKET OUTLETS	4		900			3	16				16	4	600		4	
FOR ACP	4			600	5	16					16	6		2000	4	
SOCKET OUTLETS	4	800				7	16				20	8	600		4	
SOCKET OUTLETS	4		900			9	16				16	10	700		4	
SOCKET OUTLETS	4		500			11	16				16	12	1000		4	
SOCKET OUTLETS	4	900				13	16				16	14	600		4	
SOCKET OUTLETS	4		1100			15	16				16	16	900		4	
SOCKET OUTLETS	4			1000	17	16					16	18		1000	4	
SOCKET OUTLETS	4	800				19	16				16	20	600		4	
FOR ACP	4		800			21	16				16	22			SPARE	
SPARE						23	16				16	24			SPARE	
Subtotal			3300	3700	2100							2600	2200	4000		
<div><div></div><div></div><div></div></div> 40A MCCB																
Total Connected W		5900	5900	6100			Lighting		Socket Outlet		MISC		TOTAL			
CONNECTED LOAD W		17900.0			Connected W		R	Y	B	5900	5900		5900			
DEMAND LOAD W		10740.0			DEMAND FACT		R	Y	B	6100	6100		6100			
PANEL LOAD kW		10.74			Demand W		R	Y	B	3540	3540		3540			
FULL LOAD CURRENT INCLUDING FUTURE LOAD (A) (20%)		21.9					R	Y	B	3540	3540		3540			

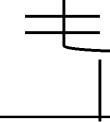
DISTRIBUTION PANEL BOARD																
PROJECT:	Diabetes-Karak		LOCATION:	GROUND FLOOR		PANEL REF:	DBP2-GF									
							VOLTAGE & FREQ. : 3PHASE, 400/230V, 50HZ							CABLE SIZE		
														MAIN SUPPLY FROM:		
Designation Load	wire size mm2	Phase Load In W			Trip Rating			Phase Load In W			wire size mm2	Designation Load				
		R	Y	B	CT NO	MCB (A)	R Y B	CT NO	MCB (A)	R Y B						
SOCKET OUTLETS	4	600			1	16		2	1200		4	SOCKET OUTLETS				
SOCKET OUTLETS	4		1200		3	16		16	4		900	4	SOCKET OUTLETS			
SOCKET OUTLETS	4			900	5	16		16	6		500	4	SOCKET OUTLETS			
SOCKET OUTLETS	4	600			7	16		16	8	600		4	SOCKET OUTLETS			
SOCKET OUTLETS	4		900		9	16		16	10		500	4	SOCKET OUTLETS			
SOCKET OUTLETS	4			700	11	16		16	12		700	4	SOCKET OUTLETS			
SOCKET OUTLETS	4	500			13	16		16	14	500		4	SOCKET OUTLETS			
SOCKET OUTLETS	4		500		15	16		16	16		500	4	SOCKET OUTLETS			
SOCKET OUTLETS	4			800	17	16		16	18		700	4	SOCKET OUTLETS			
SOCKET OUTLETS	4	200			19	16		16	20	400		4	SOCKET OUTLETS			
SOCKET OUTLETS	4		400		21	16		16	22	1200		4	SOCKET OUTLETS			
SOCKET OUTLETS	4			1200	23	16		16	24		600	4	SOCKET OUTLETS			
SOCKET OUTLETS	4	600			25	16		20	26	1800		4	SPU02			
SOCKET OUTLETS	4			800	27	16		16	28			SPARE				
SOCKET OUTLETS	4			800	29	16		16	30			SPARE				
Subtotal		2700	3800	3600					4500	3100	2500					
<div><div></div><div>40A MCCB</div></div>																
Total Connected W	7200	6900	6100					Lighting	Socket Outlet	MISC		TOTAL				
CONNECTED LOAD W	20200.0						Connected W	R	5400	1800	7200					
							Y	B	6600		6900					
DEMAND LOAD W	11040.0						DEM FACT	B	6100	6100						
								1	0.6	0.85	6100					
PANEL LOAD KW	11.04						Demand W	R	4140	4140						
								B	3660	3660						
FULL LOAD CURRENT INCLUDING FUTURE LOAD (A) (20%)	22.5										4460					


DISTRIBUTION PANEL BOARD																
PROJECT:	Diabetes-Karak	LOCATION:			FIRST FLOOR			PANEL REF:			DBP1-F1					
VOLTAGE & FREQ. : 3PHASE, 400/230V, 50HZ									CABLE SIZE			(4X16+1X16)mm2 Cu/XLPE/PVC				
									MAIN SUPPLY FROM:			SMDB-GF				
Designation Load	wire size mm2	Phase Load In W			Trip Rating						Phase Load In W			wire size mm2	Designation Load	
		R	Y	B	CT NO	MCB (A)	R	Y	B	MCB (A)	CT NO	R	Y	B		
FOR WATER COOLER	4	200			1	16				16	2	200			4	FOR WATER COOLER
SOCKET OUTLETS	4		1000		3	16				16	4		1000		4	SOCKET OUTLETS
SOCKET OUTLETS	4			1200	5	16				16	6			800	4	SOCKET OUTLETS
SOCKET OUTLETS	4	700			7	16				16	8	900			4	SOCKET OUTLETS
SOCKET OUTLETS	4		1100		9	16				16	10		700		4	SOCKET OUTLETS
SOCKET OUTLETS	4			900	11	16				16	12			900	4	SOCKET OUTLETS
SOCKET OUTLETS	4	900			13	16				16	14	700			4	SOCKET OUTLETS
SOCKET OUTLETS	4		500		15	16				16	16		700		4	SOCKET OUTLETS
SOCKET OUTLETS	4			800	17	16				16	18			600	4	SOCKET OUTLETS
SOCKET OUTLETS	4	600			19	16				16	20	150			4	A.C.I.U
A.C.I.U	4		250		21	16				16	22		250		4	A.C.I.U
A.C.I.U	4			250	23	16				16	24			250	4	A.C.I.U
A.C.I.U	4	250			25	16				20	26	1200			4	SPU-01
SOCKET OUTLETS	4		400		27	16				16	28					SPARE
SPARE					29	16				16	30					SPARE
Subtotal		2650 3250 3150						3150 2650 2550								
40A MCCB																
Total Connected W	5800	5900	5700	Connected W			R	Lighting			Socket Outlet	MISC	TOTAL			
CONNECTED LOAD W	17400.0			Y						4200	1600	5800				
DEMAND LOAD W	11090.0			B						5400	500	5900				
				DEM FACT			1			0.6	0.85	5700				
PANEL LOAD kW	11.09			Demand W			R				2520	1360	3880			
FULL LOAD CURRENT INCLUDING FUTURE LOAD (A) (20%)	22.6			Y						3240	425	3665				
				B						3120	425	3545				

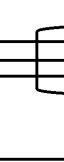
DISTRIBUTION PANEL BOARD															
PROJECT:	Diabetes-Karak			LOCATION:		FIRST FLOOR				PANEL REF:		EDBL-F1			
VOLTAGE & FREQ. : 3PHASE, 400/230V, 50HZ										CABLE SIZE		(4X16+1X16)mm2 Cu/XLPE/PVC			
										MAIN SUPPLY FROM:		ESMDB			
Designation Load	wire size mm2	Phase Load In W			Trip Rating						Phase Load In W			wire size mm2	Designation Load
		R	Y	B	CT NO	MCB (A)	R	Y	B	MCB (A)	CT NO	R	Y		
LIGHTING	2.5	150			1	10				2	150			2.5	LIGHTING
LIGHTING	2.5		150		3	10				4		350		2.5	LIGHTING
LIGHTING	2.5			200	5	10				6			200	2.5	LIGHTING
LIGHTING	2.5	200			7	10				8	200			2.5	LIGHTING
LIGHTING	2.5		150		9	10				10		150		2.5	LIGHTING
LIGHTING	2.5			500	11	10				12			250	2.5	LIGHTING
LIGHTING	2.5	150			13	10				14	150			2.5	LIGHTING
LIGHTING	2.5		200		15	10				16		150		2.5	LIGHTING
LIGHTING	2.5			250	17	10				18			100	2.5	LIGHTING
LIGHTING	2.5	200			19	10				20	400			2.5	LIGHTING
LIGHTING	2.5		200		21	10				22		350		2.5	LIGHTING
LIGHTING	2.5			400	23	10				24			100	2.5	LIGHTING
LIGHTING	2.5	200			25	10				26	100			2.5	LIGHTING
SPARE					27	10				28					SPARE
SPARE					29	10				30					SPARE
Subtotal		900 700 1350							40A MCCB		1000 1000 650				
Total Connected W	1900	1700	2000					Lighting		Socket Outlet		MISC	TOTAL		
CONNECTED LOAD W	5600.0			Connected W		R	1900	0	0	1900					
DEMAND LOAD W	5600.0					Y	1700	0	0	1700					
				B	2000	0	0	2000							
PANEL LOAD kW	5.60			DEM FACT			1	0.6	0.85						
						R	1900	0	0	1900					
						Y	1700	0	0	1700					
						B	2000	0	0	2000					
FULL LOAD CURRENT INCLUDING FUTURE LOAD (A) (20%)	11.4														

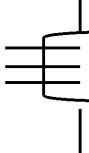
DISTRIBUTION PANEL BOARD															
PROJECT:		Diabetes-Karak		LOCATION:		FIRST FLOOR				PANEL REF:		EDBPU-F1			
VOLTAGE & FREQ. : 3PHASE, 400/230V, 50HZ										CABLE SIZE		(4X16+1X16)mm2 Cu/XLPE/PVC			
										MAIN SUPPLY FROM:		ESMDB			
Designation Load	wire size mm2	Phase Load In W			Trip Rating						Phase Load In W			wire size mm2	Designation Load
		R	Y	B	CT NO	MCB (A)	R	Y	B	MCB (A)	CT NO	R	Y		
SOCKET OUTLETS	4	1200			1	16				2	200			4	FOR ACP
SOCKET OUTLETS	4		400		3	16				4	1200			4	SOCKET OUTLETS
SOCKET OUTLETS	4			1200	5	16				6		1200		4	SOCKET OUTLETS
SOCKET OUTLETS	4	1100			7	16				8	700			4	SOCKET OUTLETS
FOR IDF-CAM	4		1200		9	16				10					SPARE
SPARE					11	16				12					SPARE
Subtotal		2300		1600	1200						900		1200	1200	
40A MCCB															
Total Connected W		3200	2800	2400				Lighting		Socket Outlet		MISC	TOTAL		
CONNECTED LOAD W		8400.0			Connected W		R			3200		0	3200		
							Y			2800		0	2800		
DEMAND LOAD W		5040.0			DEM FACT		B			2400		0	2400		
							1			0.6		0.85			
PANEL LOAD kW		5.04			Demand W		R			1920		0	1920		
							Y			1680		0	1680		
							B			1440		0	1440		
FULL LOAD CURRENT INCLUDING FUTURE LOAD (A) (20%)		10.3													

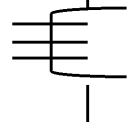
DISTRIBUTION PANEL BOARD															
PROJECT:	Diabetes-Karak			LOCATION:		FIRST FLOOR				PANEL REF:		EDB2-F1			
VOLTAGE & FREQ. : 3PHASE, 400/230V, 50HZ										CABLE SIZE		(4X16+1X16)mm2 Cu/XLPE/PVC			
										MAIN SUPPLY FROM:		EMDB			
Designation Load	wire size mm2	Phase Load In W			Trip Rating						Phase Load In W			wire size mm2	Designation Load
		R	Y	B	CT NO	MCB (A)	R	Y	B	MCB (A)	CT NO	R	Y		
LIGHTING	2.5	200			1	10				2	150			2.5	LIGHTING
LIGHTING	2.5		200		3	10				4		380		2.5	LIGHTING
LIGHTING	2.5			380	5	10				6			380	2.5	LIGHTING
LIGHTING	2.5	300			7	10				8	200			2.5	LIGHTING
LIGHTING	2.5		150		9	10				10		150		2.5	LIGHTING
SOCKET OUTLETS	4			700	11	16				12		700	4	4	SOCKET OUTLETS
SOCKET OUTLETS	4	800			13	16				14	1100			4	SOCKET OUTLETS
SOCKET OUTLETS	4		1100		15	16				16		1100		4	SOCKET OUTLETS
SOCKET OUTLETS	4			1000	17	16				18			400	4	FOR REF.
SOCKET OUTLETS	4	1000			19	16				20	1000			4	SOCKET OUTLETS
SOCKET OUTLETS	4		800		21	16				22		800		4	SOCKET OUTLETS
SOCKET OUTLETS	4			500	23	16				24			700	4	SOCKET OUTLETS
SPARE					25	16				26					SPARE
SPARE					27	16				28					SPARE
SPARE					29	16				30					SPARE
Subtotal		2300 2250 2580									2450 2430 2180			40A MCCB	
Total Connected W		4750	4680	4760				Lighting		Socket Outlet		MISC	TOTAL		
CONNECTED LOAD W		14190.0			Connected W			R	850	3900		0	4750		
DEMAND LOAD W		9510.0			DEM FACT			Y	880	3800		0	4680		
								B	760	4000		0	4760		
PANEL LOAD kW		9.51			Demand W			R	850	2340		0	3190		
								Y	880	2280		0	3160		
								B	760	2400		0	3160		
FULL LOAD CURRENT INCLUDING FUTURE LOAD (A) (20%)		19.4													

DISTRIBUTION PANEL BOARD																
PROJECT:		Diabetes-Karak		LOCATION:		FIRST FLOOR				PANEL REF:		EDB1-F1				
VOLTAGE & FREQ. : 3PHASE, 400/230V, 50HZ										CABLE SIZE		(4X16+1X16)mm2 Cu/XLPE/PVC				
										MAIN SUPPLY FROM:		EMDB				
Designation Load	wire size mm2	Phase Load In W			Trip Rating						Phase Load In W			wire size mm2	Designation Load	
		R	Y	B	CT NO	MCB (A)	R	Y	B	MCB (A)	CT NO	R	Y			B
LIGHTING	2.5	400			1	10				2	350				2.5	LIGHTING
LIGHTING	2.5		400		3	10				4	100				2.5	LIGHTING
LIGHTING	2.5			380	5	10				6	380				2.5	LIGHTING
LIGHTING	2.5	300			7	10				8	200				2.5	LIGHTING
LIGHTING	2.5		150		9	10				10	150				2.5	LIGHTING
FOR ACP	4			200	11	16				12		700			4	SOCKET OUTLETS
SOCKET OUTLETS	4	700			13	16				14	600				4	SOCKET OUTLETS
SOCKET OUTLETS	4		1100		15	16				16	600	600			4	SOCKET OUTLETS
SOCKET OUTLETS	4			600	17	16				18			600		4	SOCKET OUTLETS
SOCKET OUTLETS	4	600			19	16				20	600				4	SOCKET OUTLETS
SOCKET OUTLETS	4		700		21	16				22		800			4	SOCKET OUTLETS
SOCKET OUTLETS	4			800	23	16				24			500		4	SOCKET OUTLETS
FOR REF.	4	400			25	16				26						SPARE
SPARE					27	16				28						SPARE
SPARE					29	16				30						SPARE
Subtotal		2400		2350	1980				1750			1650	2180			
40A MCCB																
Total Connected W		4150	4000	4160				Lighting		Socket Outlet		MISC	TOTAL			
CONNECTED LOAD W		12310.0			Connected W			R	1250	2900		0	4150			
								Y	800	3200		0	4000			
								B	760	3400		0	4160			
DEMAND LOAD W		8510.0			DEM FACT				1	0.6		0.85				
								R	1250	1740		0	2690			
								Y	800	1920		0	2720			
								B	760	2040		0	2800			
FULL LOAD CURRENT INCLUDING FUTURE LOAD (A) (20%)		17.3														

DISTRIBUTION PANEL BOARD																				
PROJECT:		Diabetes-Karak			LOCATION:			SECOND FLOOR				PANEL REF:			DBP1-F2					
VOLTAGE & FREQ. : 3PHASE, 400/230V, 50HZ												CABLE SIZE			(4X16+1X16)mm2 Cu/XLPE/PVC					
												MAIN SUPPLY FROM:			SMDB-GF					
Designation Load		wire size mm2	Phase Load In W			Trip Rating						Phase Load In W			wire size mm2	Designation Load				
			R	Y	B	CT NO	MCB (A)	R	Y	B	MCB (A)	CT NO	R	Y	B					
SOCKET OUTLETS		4	800			1	16				16	2	200				4	FOR WATER COOLER		
FOR WATER COOLER		4		200		3	16				16	4		1100			4	SOCKET OUTLETS		
SOCKET OUTLETS		4			1100	5	16				16	6			1000		4	SOCKET OUTLETS		
SOCKET OUTLETS		4	900			7	16				16	8	700				4	SOCKET OUTLETS		
SOCKET OUTLETS		4		1000		9	16				16	10		1000			4	SOCKET OUTLETS		
SOCKET OUTLETS		4			1000	11	16				16	12			1000		4	SOCKET OUTLETS		
SOCKET OUTLETS		4	1000			13	16				16	14	700				4	SOCKET OUTLETS		
SOCKET OUTLETS		4		1000		15	16				16	16		800			4	SOCKET OUTLETS		
SOCKET OUTLETS		4			600	17	16				16	18			1100		4	SOCKET OUTLETS		
A.C.I.U		4	250			19	16				16	20	500				4	A.C.I.U		
A.C.I.U		4		500		21	16				16	22		300			4	A.C.I.U		
A.C.I.U		4			300	23	16				16	24			600		4	SOCKET OUTLETS		
SPU-01		4	1200			25	20				16	26	400				4	SOCKET OUTLETS		
SPARE						27	16				16	28						SPARE		
SPARE						29	16				16	30						SPARE		
Subtotal			4150	2700	3000					40A MCCB				2500	3200	3700				
Total Connected W		6650	5900	6700							Lighting		Socket Outlet		MISC		TOTAL			
CONNECTED LOAD W		19250.0			Connected W		Y					4700		1950		6650				
DEMAND LOAD W		12312.5					B					5100		800		5900				
					DEM FACT			1				6400		300		6700				
PANEL LOAD kW		12.31			Demand W		Y					2820		1658		4478				
							Y					3060		680		3740				
							B					3840		255		4095				
FULL LOAD CURRENT INCLUDING FUTURE LOAD (A) (20%)		25.1																		

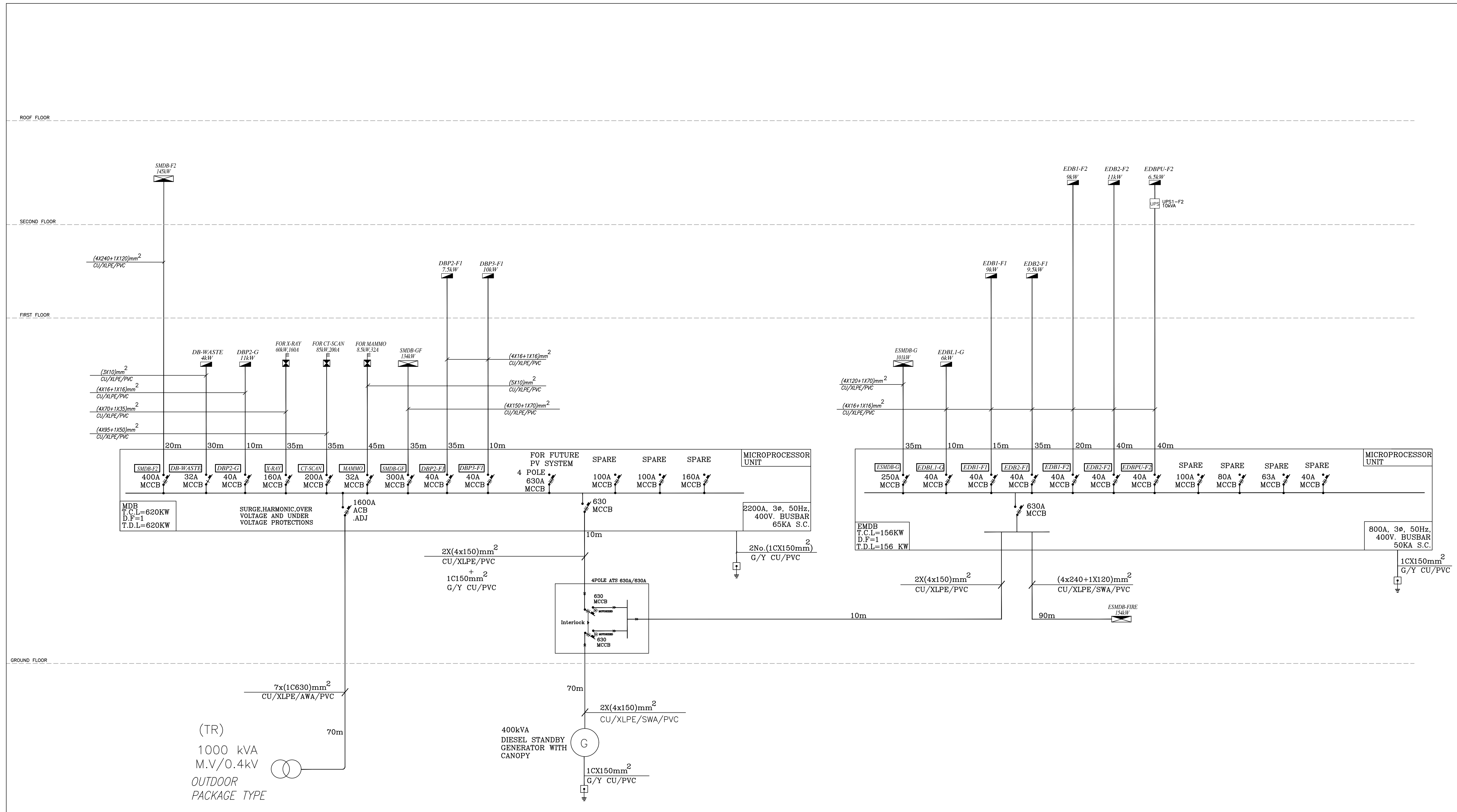
DISTRIBUTION PANEL BOARD																				
PROJECT:		Diabetes-Karak			LOCATION:			SECOND FLOOR			PANEL REF:			EDBL-F2						
VOLTAGE & FREQ. : 3PHASE, 400/230V, 50HZ												CABLE SIZE			(4X16+1X16)mm2 Cu/XLPE/PVC					
												MAIN SUPPLY FROM:			ESMDB-GF					
Designation Load	wire size mm2	Phase Load In W			Trip Rating						Phase Load In W			wire size mm2	Designation Load					
		R	Y	B	CT NO	MCB (A)	R	Y	B	MCB (A)	CT NO	R	Y			B				
LIGHTING	2.5	150			1	10				10	2	150			2.5	LIGHTING				
LIGHTING	2.5		150		3	10				10	4		350		2.5	LIGHTING				
LIGHTING	2.5			200	5	10				10	6			200	2.5	LIGHTING				
LIGHTING	2.5	200			7	10				10	8	200			2.5	LIGHTING				
LIGHTING	2.5		150		9	10				10	10		150		2.5	LIGHTING				
LIGHTING	2.5			400	11	10				10	12			400	2.5	LIGHTING				
LIGHTING	2.5	350			13	10				10	14	350			2.5	LIGHTING				
LIGHTING	2.5		500		15	10				10	16		400		2.5	LIGHTING				
SPARE					17	10				10	18					SPARE				
Subtotal		700 800 600						40A MCCB			700 900 600									
Total Connected W		1400	1700	1200				Lighting			Socket Outlet			MISC			TOTAL			
CONNECTED LOAD W		4300.0			Connected W			R	1400			0			0			1400		
								Y	1700			0			0			1700		
DEMAND LOAD W		4300.0			DEM FACT			B	1200			0			0			1200		
									1			0.6			0.85					
PANEL LOAD kW		4.30			Demand W			R	1400			0			0			1400		
								Y	1700			0			0			1700		
								B	1200			0			0			1200		
FULL LOAD CURRENT INCLUDING FUTURE LOAD (A) (20%)		8.8																		

DISTRIBUTION PANEL BOARD																			
PROJECT:		Diabetes-Karak		LOCATION:		SECOND FLOOR		PANEL REF:		EDBP-LAB1-F2									
VOLTAGE & FREQ. : 3PHASE, 400/230V, 50HZ										CABLE SIZE		(4X16+1X16)mm2 Cu/XLPE/PVC							
										MAIN SUPPLY FROM:		ESMDBG-GF							
Designation Load	wire size mm2	Phase Load In W			Trip Rating						Phase Load In W			wire size mm2	Designation Load				
		R	Y	B	CT NO	MCB (A)	R	Y	B	MCB (A)	CT NO	R	Y			B			
FOR REF	4	1000			1	16				16	2	400		4	FOR REF.				
FOR FREEZER	4		1400		3	16				16	4	900		4	SOCKET OUTLETS				
SOCKET OUTLETS	4			900	5	16				16	6		1000	4	FOR ANALYZER				
SOCKET OUTLETS	4	900			7	16				16	8	900		4	SOCKET OUTLETS				
I.S FOOR HOOD	4		1000		9	16				16	10	1200		4	SOCKET OUTLETS				
SOCKET OUTLETS	4			900	11	16				16	12		900	4	SOCKET OUTLETS				
FOR CENTRIFUGES	4	1000			13	16				16	14	1200		4	SOCKET OUTLETS				
FOR ACP	4		400		15	16				16	16	900		4	SOCKET OUTLETS				
FOR Electrophoresis Equipment	4			2000	17	20				16	18				SPARE				
SPARE					19	16				16	20				SPARE				
SPARE					21	16				16	22				SPARE				
SPARE					23	16				16	24				SPARE				
Subtotal		2900 2800 3800													2500 3000 1900				
40A MCCB																			
Total Connected W		5400	5800	5700	Connected W		Lighting		Socket Outlet		MISC		TOTAL						
CONNECTED LOAD W		16900.0			Y				5400		0		5400						
					B				5800		0		5800						
DEMAND LOAD W		10140.0			DEM FACT		1		0.6		0.85		5700						
					Y				3240		0		3240						
PANEL LOAD kW		10.14			Demand W		Y		3480		0		3480						
					B				3420		0		3420						
FULL LOAD CURRENT INCLUDING FUTURE LOAD (A) (20%)		20.7																	

DISTRIBUTION PANEL BOARD																
PROJECT:		Diabetes-Karak		LOCATION:		SECOND FLOOR			PANEL REF:		DBP2-F2					
VOLTAGE & FREQ. : 3PHASE, 400/230V, 50HZ									CABLE SIZE		(4X16+1X16)mm2 Cu/XLPE/PVC					
									MAIN SUPPLY FROM:		SMDB-F2					
Designation Load	wire size mm2	Phase Load In W			Trip Rating						Phase Load In W			wire size mm2	Designation Load	
		R	Y	B	CT NO	MCB (A)	R	Y	B	MCB (A)	CT NO	R	Y			B
SOCKET OUTLETS	4	700			1	16				16	2	500			4	SOCKET OUTLETS
SOCKET OUTLETS	4		700		3	16				16	4		700		4	SOCKET OUTLETS
SOCKET OUTLETS	4			1000	5	16				16	6			900	4	SOCKET OUTLETS
SOCKET OUTLETS	4	600			7	16				16	8	600			4	SOCKET OUTLETS
SOCKET OUTLETS	4		800		9	16				16	10		800		4	SOCKET OUTLETS
A.C.I.U	4			300	11	16				16	12			500	4	A.C.I.U
A.C.I.U	4	300			13	16				16	14	300			4	A.C.I.U
SOCKET OUTLETS	4		600		15	16				16	16					SPARE
SPARE					17	16				16	18					SPARE
Subtotal		1600 2100 1300						1400 1500 1400			40A MCCB					
Total Connected W		3000	3600	2700				Lighting		Socket Outlet		MISC		TOTAL		
CONNECTED LOAD W		9300.0			Connected W		R	2400		600		3000				
					Y		B	3600		0		3600				
DEMAND LOAD W		5930.0			DEM FACT		1		1900		800		2700			
					R				0.6		0.85					
PANEL LOAD kW		5.93			Demand W		R	1440		510		1950				
					Y				2160		0		2160			
					B				1140		680		1820			
FULL LOAD CURRENT INCLUDING FUTURE LOAD (A) (20%)		12.1														



NOTES:



supply point	Served load	Load	Current	Main breaker	Cable Length	Cable Cross Section	Voltage Drop Ratio as per IEE Regulations	Cable Voltage Drop* Current* Length* Voltage Drop Ratio	Cable Voltage Drop (%) = Voltage Drop/400 volt*100%	Overall Voltage Drop
TR- 1000 Kva	MDB-DIABETES KARAK	616	1047	1600	70	7(1C630)	0.085	6.23	1.56	1.56
MDB	SMD-B-F2	145	247	400	20	4X240	0.21	1.04	0.26	1.8
	SMD-B-G.F	130	221	300	35	4X150	0.30	2.32	0.58	2.1
	DBP2-GF	11	19	40	10	4X16	2.50	0.47	0.12	1.7
	X-RAY	60	102	160	35	4X70	0.60	2.14	0.54	2.1
	CT-SCAN	85	145	200	35	4X65	0.45	2.28	0.57	2.1
	MAMMO	8.5	14	32	45	5X10	4.00	2.60	0.65	2.2
	DBP2-F1	7	12	40	35	4X16	2.50	1.04	0.26	1.8
	DBP3-F1	9	15	40	10	4X16	2.50	0.38	0.10	1.7
	EMDB	156	265	400	10	2(4X150)	0.15	0.40	0.10	1.7
EMDB	DB-WASTE	4	20	32	30	3X10	4.70	2.88	1.25	2.8
	ESMD-B-G.F	101	172	250	35	4X120	0.37	2.22	0.56	2.2
	EDBL1-G.F	6	10	40	10	4X16	2.5	0.26	0.06	1.7
	EDB1-F1	9	15	40	15	4X16	2.5	0.57	0.14	1.8
	EDB2-F1	10	17	40	35	4X16	2.5	1.49	0.37	2.0
	EDB1-F2	9	15	40	20	4X16	2.5	0.77	0.19	1.8
	EDB2-F2	11	19	40	40	4X16	2.5	1.87	0.47	2.1
	EDBPU-F2	6	10	40	40	4X16	2.5	1.02	0.26	1.9
	EDBL2-GF	6	10	40	7	4X16	2.5	0.18	0.04	2.26
ESMD-B-GF	EDBP1-GF	7	12	40	7	4X16	2.5	0.21	0.05	2.27
	EDBP2-GF	10	17	40	7	4X16	2.5	0.30	0.07	2.29
	EDBPU1-GF	6	10	40	7	4X16	2.5	0.18	0.04	2.26
	EDBU1-GF	20	34	50	25	4X16	2.5	2.13	0.53	2.74
	EDBL1-F1	6	10	40	15	4X16	2.5	0.38	0.10	2.31
	EDBU-F1	5	9	40	15	4X16	2.5	0.32	0.08	2.29
	EDBL2-F2	5	9	40	20	4X16	2.5	0.43	0.11	2.32
	EDBP1-LAB-F2	10	17	40	40	4X16	2.5	0.43	0.10	2.64
	EDBP2-LAB-F2	7	12	40	40	4X16	2.5	1.19	0.30	2.51
	LIFT-02	15	26	50	40	4X16	2.5	2.55	0.64	2.85
	DBPU-01	5	9	32	60	4X16	2.5	1.28	0.32	2.53
	DBPU-01	5	9	32	60	4X16	2.5	1.28	0.32	2.53
	REF	3	15	25	15	3X6	7.9	1.82	0.79	3.00
	REF	3	15	25	15	3X6	7.9	1.82	0.79	3.00
	DBP1-GF	8	14	40	7	4X16	2.5	0.24	0.06	2.20
SMD-B-G.F	DBM-GF	5	9	40	7	4X16	2.5	0.15	0.04	2.16
	DBP1-F1	10	17	40	15	4X16	2.5	0.64	0.16	2.30
	DBP1-F2	12	20	40	20	4X16	2.5	1.02	0.26	2.39
	MCC-RF	32	54	80	50	4X25	1.15	3.78	0.94	2.92
	VRF-G-UP	20	34	63	40	4X25	1.65	2.24	0.56	2.70
	VRF-G-DOWN	20	34	63	40	4X25	1.65	2.24	0.56	2.70
	VRF-FAHU	19	32	63	45	4X25	1.65	2.40	0.60	2.74
	FAHU-01	4	7	20	45	5X4	10	3.68	0.77	2.90
	LIFT-02	15	26	50	40	4X16	2.5	2.55	0.64	2.78
	DBP3-F2	8	14	40	5	4X16	2.5	0.17	0.04	1.86
SMD-B-F2	DBP2-F2	6	10	40	30	4X16	2.5	0.77	0.19	2.01
	LIFT-03	10	17	50	30	4X16	2.5	1.28	0.32	2.14
	LIFT-04	10	17	50	30	4X16	2.5	1.28	0.32	2.14
	VRF-F1	20	34	63	55	4X16	2.5	4.68	1.17	2.99
	VRF-F2	35	60	80	55	4X25	1.15	3.76	0.94	2.76
	VRF-F1	20	34	63	45	4X25	1.65	2.52	0.63	2.45
	VRF-F2	26	44	63	45	4X25	1.65	3.28	0.82	2.64
	VRF-LAB	22	37	63	45	4X25	1.65	2.78	0.69	2.51
	AHU-LAB	3	5	20	45	5X4	10	2.30	0.57	2.39

PLOT NO : 1

DISTRICT : KARAK

BASIN : 14 TALAT EAWAHAD

REV. MARK DATE MADE BY REMARKS

CLIENT THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS

MP MADI & PARTNERS CONSULTING ENGINEERS
C E TEL:5829640-5829641 FAX:5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY

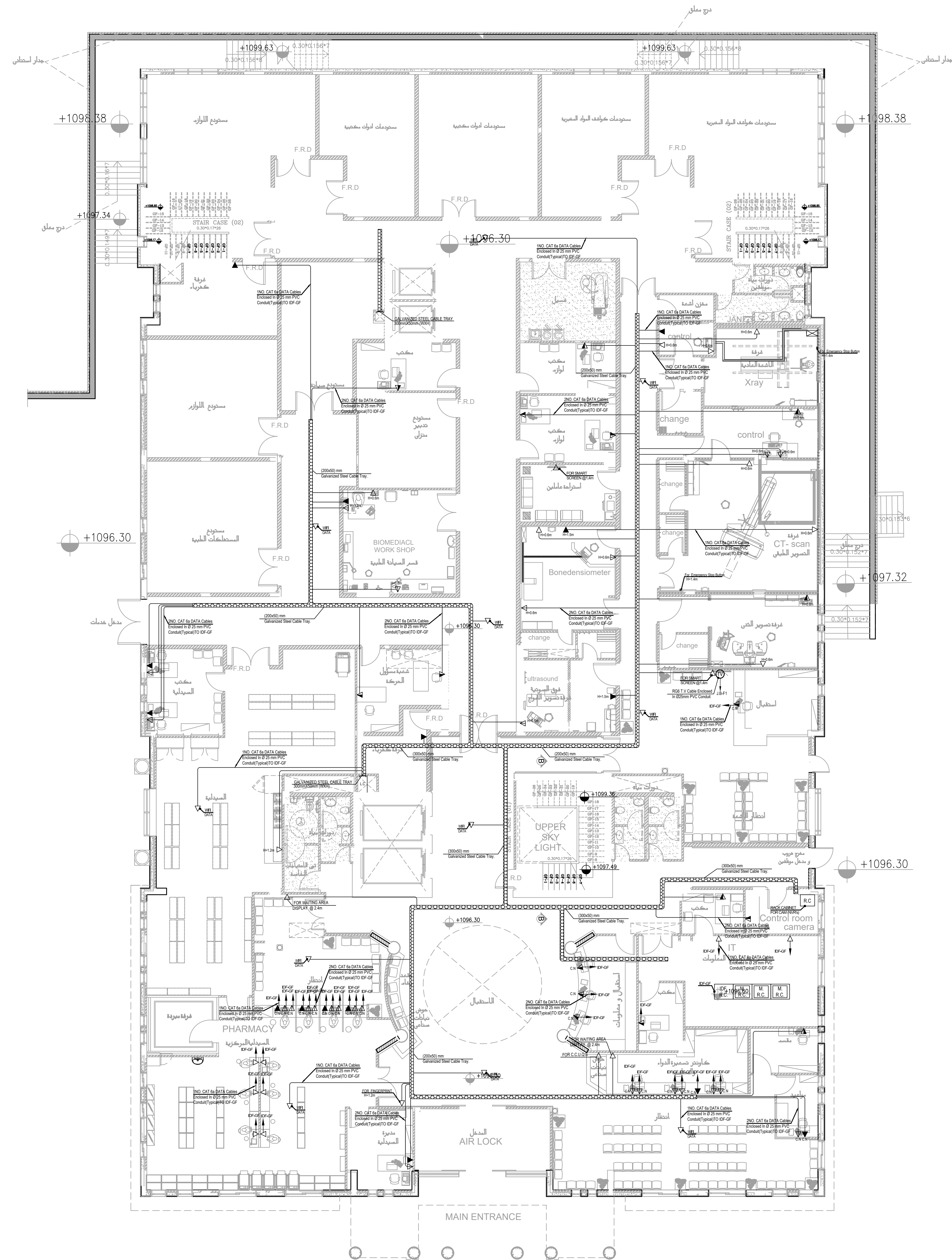
DRG. TITLE POWER SYSTEM RISER DIAGRAM

DRAWN BY : ELEC.T SCALE: 1:100

DESIGNED BY : A.F DATE : DEC.-2023

CHECKED BY : S.J PROJECT No. DRAWING No.

APPROVED BY: S.J E-504

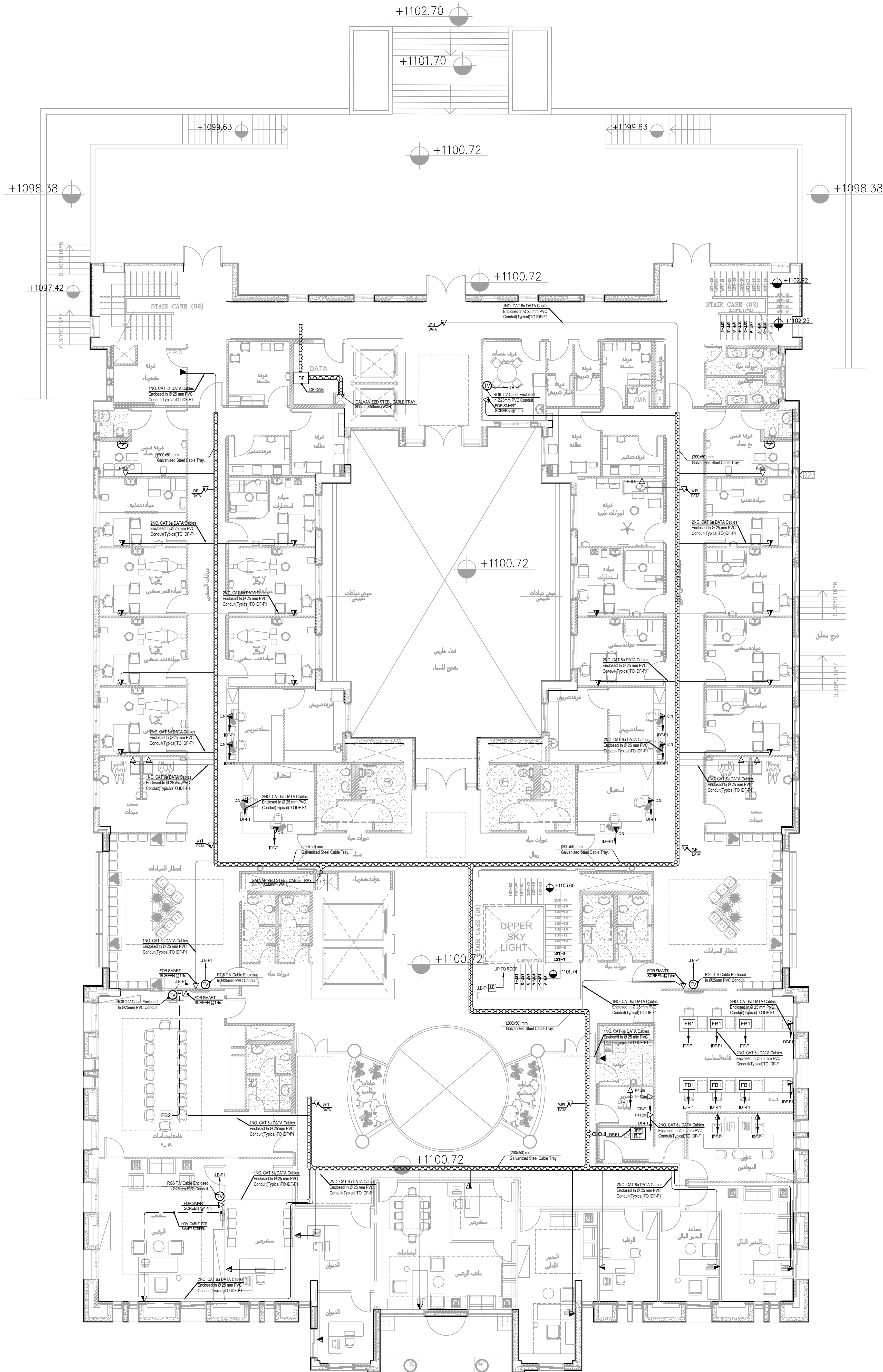


NOTES:

REV. MARK	DATE	MADE BY	REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
MP CE	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	GROUND FLOOR LOW CURRENT SYSTEM LAYOUT		
DRAWN BY : ELEC.T		SCALE: 1:100	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J		E-600	



NOTES:



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PLOT NO : 1
DISTRICT : KARAK
BASIN : 14 TALAT EAWAHAD

REV. MARK DATE MADE BY REMARKS

CLIENT THE NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

MP MADI & PARTNERS CONSULTING ENGINEERS
CE TEL:5829640-5829641 FAX:5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

DRG. TITLE FIRST FLOOR
LOW CURRENT SYSTEM LAYOUT

DRAWN BY : ELEC.T SCALE : 1:100

DESIGNED BY : A.F DATE : DEC.-2023

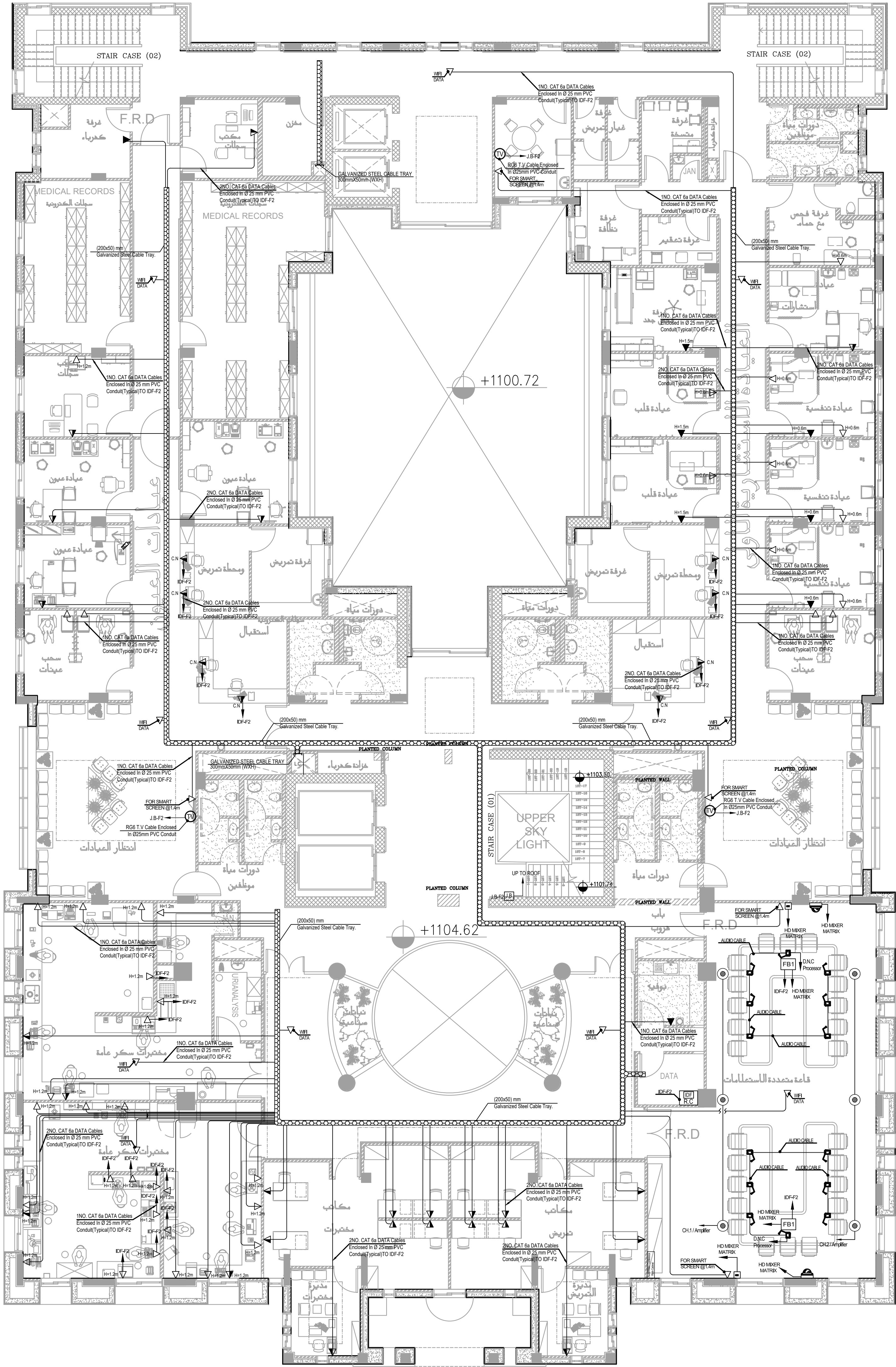
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APPROVED BY: S.J E-601

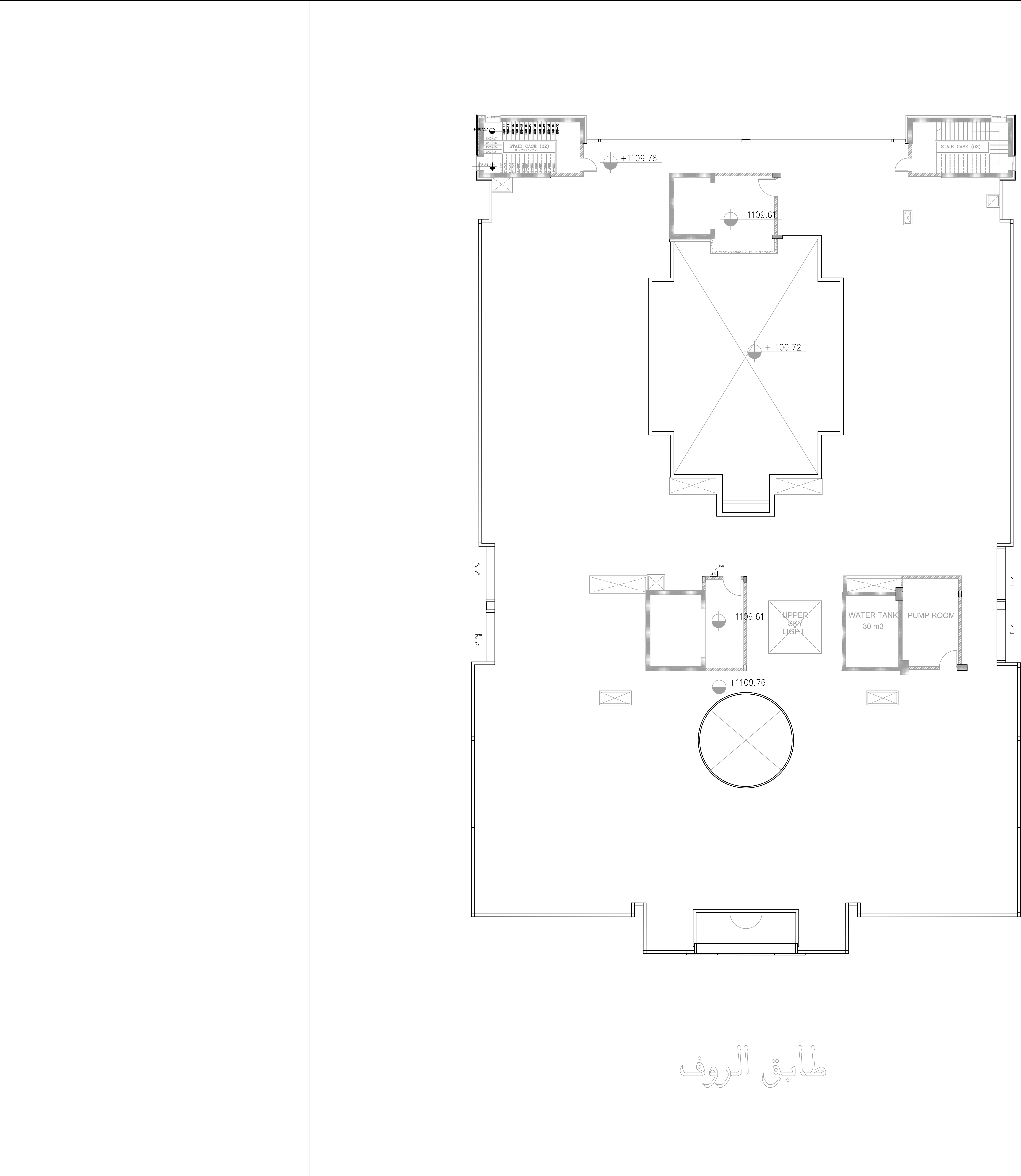


NOTES:

PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
V. MARK	DATE	MADE BY		REMARKS	
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS				
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo				
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY				
DRG. TITLE	SECOND FLOOR LOW CURRENT SYSTEM LAYOUT				
DRAWN BY			:		ELEC.T
SCALE			1:100		
DESIGNED BY			:		A.F
DATE			DEC.-2023		
CHECKED BY			:		S.J
PROJECT No.			DRAWING No.		
APPROVED BY			:		S.J
			E-602		



الطابق الثاني



طابق الروف



NOTES:

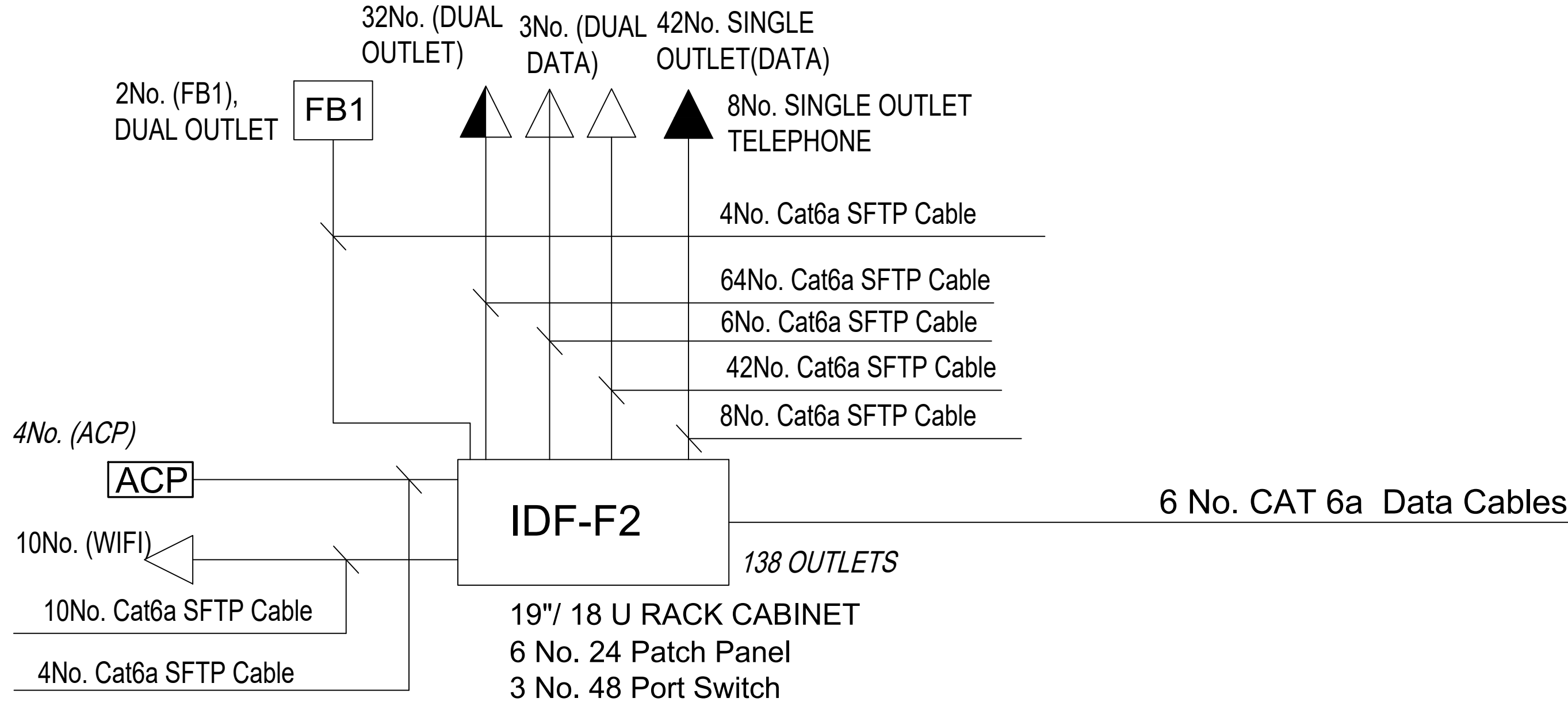
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DISTRICT : KARAK	
BASIN : 14 TALAT EAWAHAD	
REV. MARK	DATE
MADE BY	
REMARKS	
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS
MP CE	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY
DRG. TITLE	ROOF FLOOR LOW CURRENT SYSTEM LAYOUT
DRAWN BY : ELEC.T	
SCALE : 1:100	
DESIGNED BY : A.F	
DATE : DEC.-2023	
CHECKED BY : S.J	
PROJECT No.	
DRAWING No.	
APPROVED BY: S.J	
E-603	



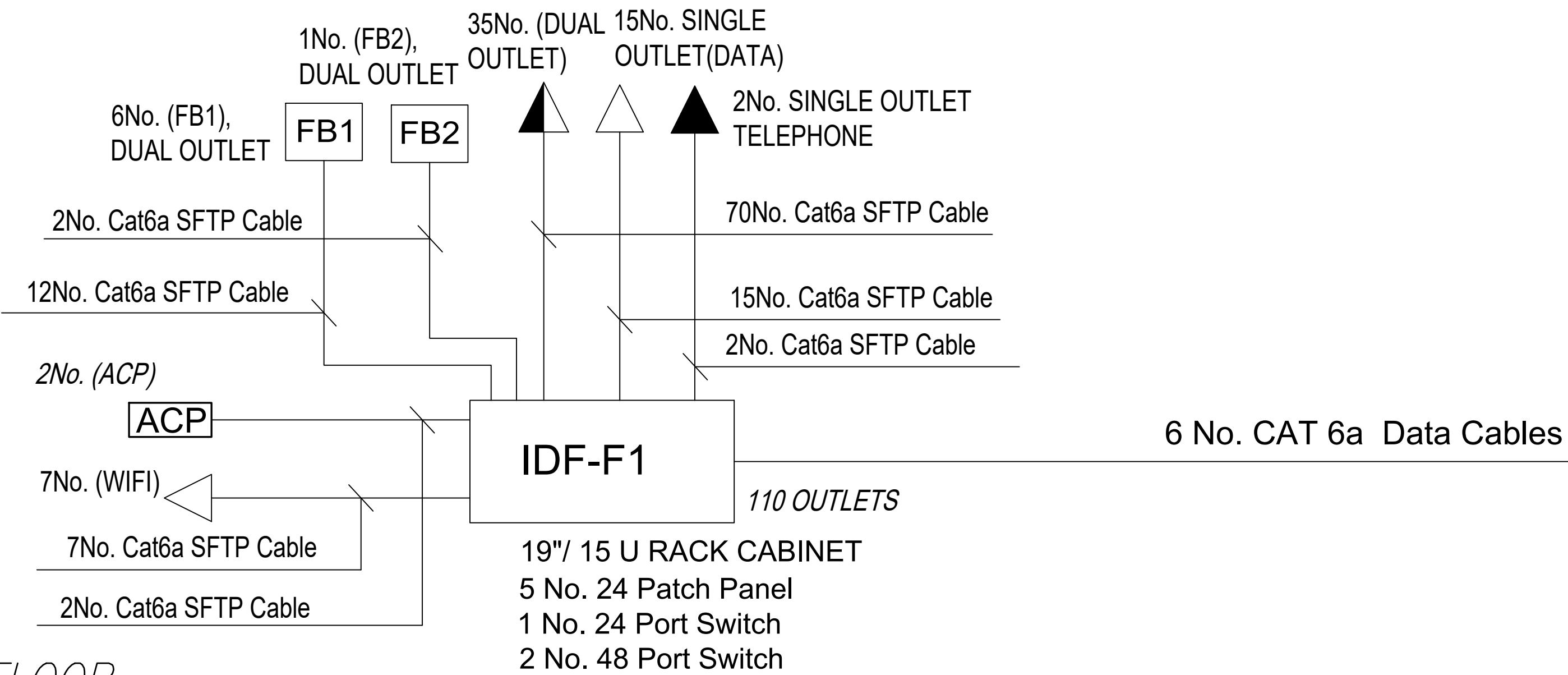
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PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY		REMARKS	
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS				
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo				
	PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY			
DRG. TITLE	LOW CURRENT SYSTEM RISER DIAGRAM				
DRAWN BY : ELEC.T			SCALE: N.T.S		
DESIGNED BY : A.F			DATE : DEC.-2023		
CHECKED BY : S.J			PROJECT No.		
APPROVED BY: S.J			DRAWING No.		
			E-604		

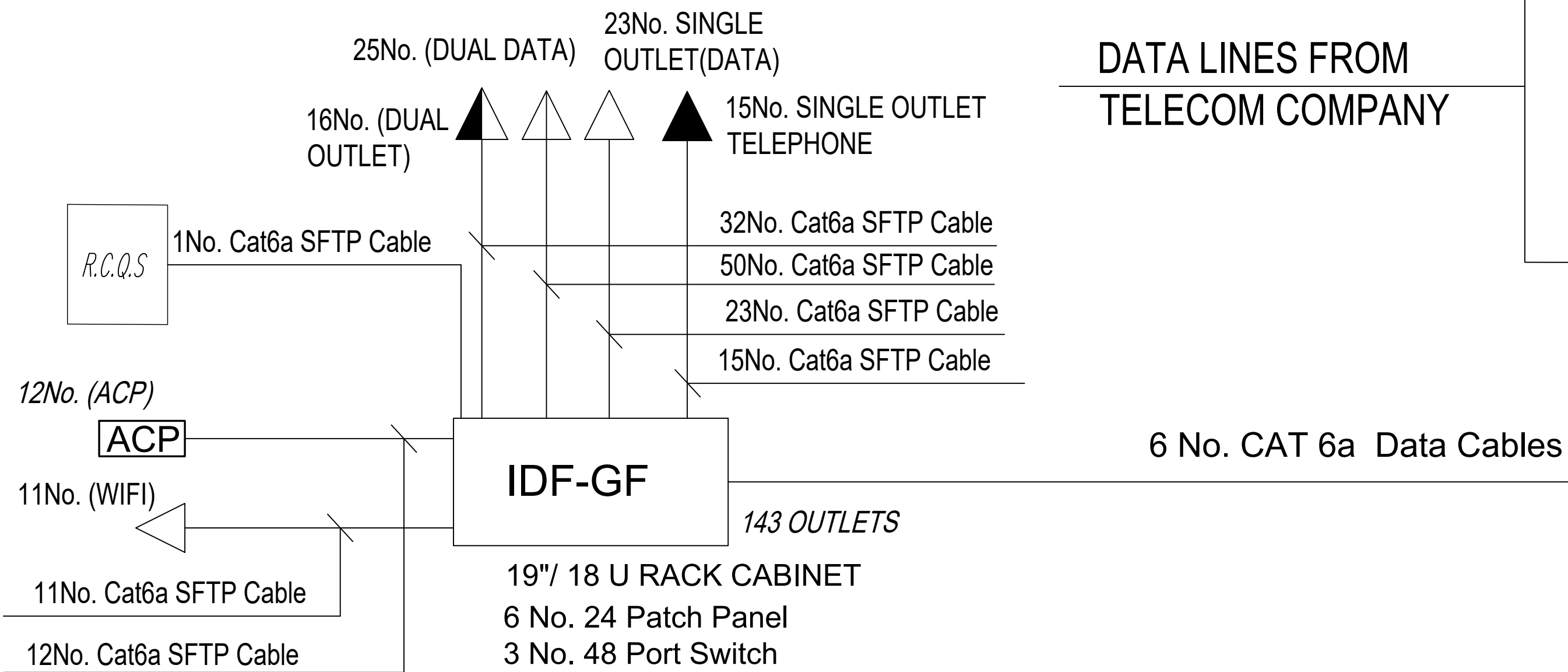
ROOF FLOOR



2ND FLOOR



1ST FLOOR



GROUND FLOOR

Main Rack Cabinets
Located in Server
Room
@ GROUND Floor

PABX

120 IN. LINES / 6 EX. LINES

RACK CABINET
FOR CAM (NVR's)

Located in Control Room
@ GROUND Floor

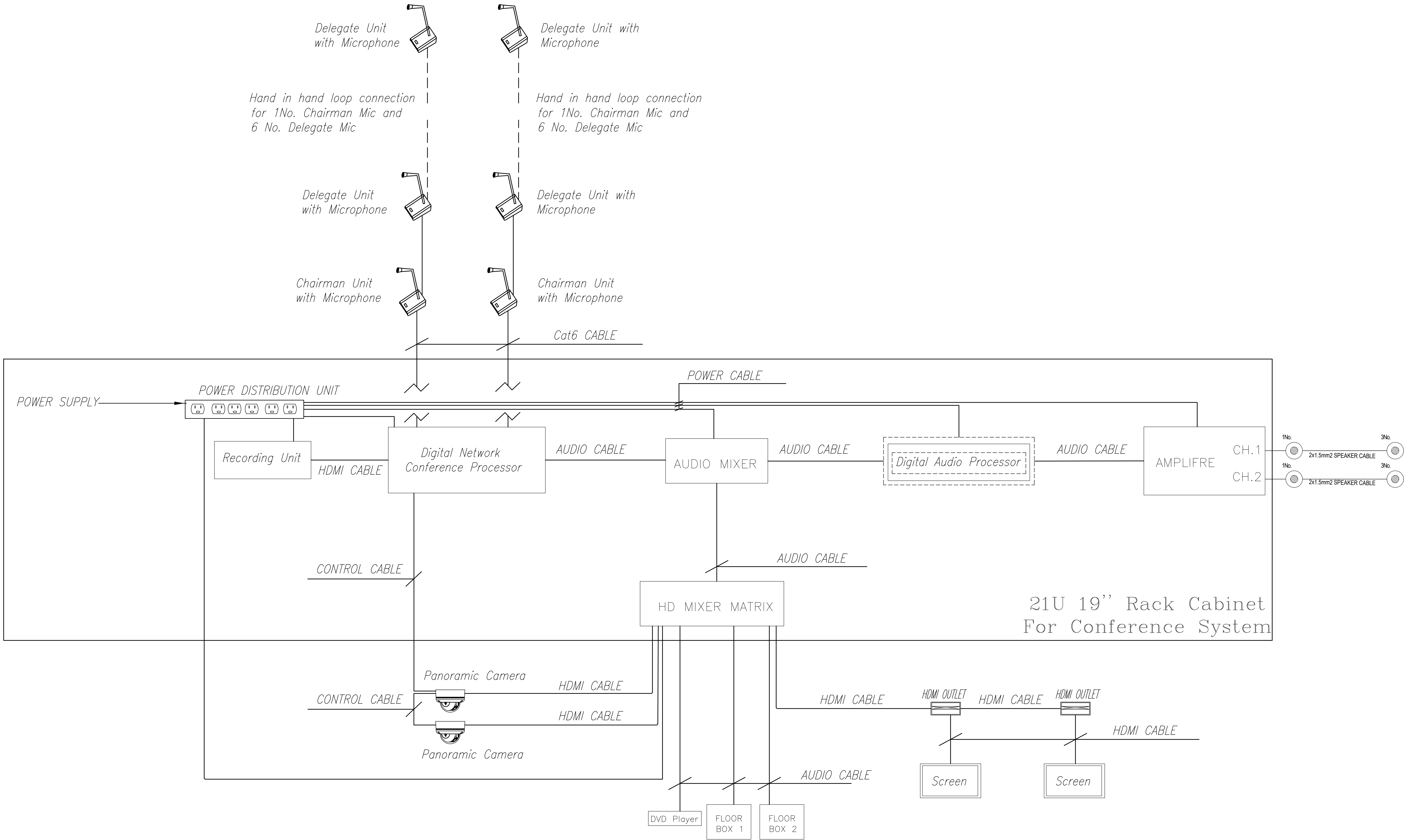
19" 24 U RACK CABINET

DATA SYSTEM SCHEMATIC RISER DIAGRAM

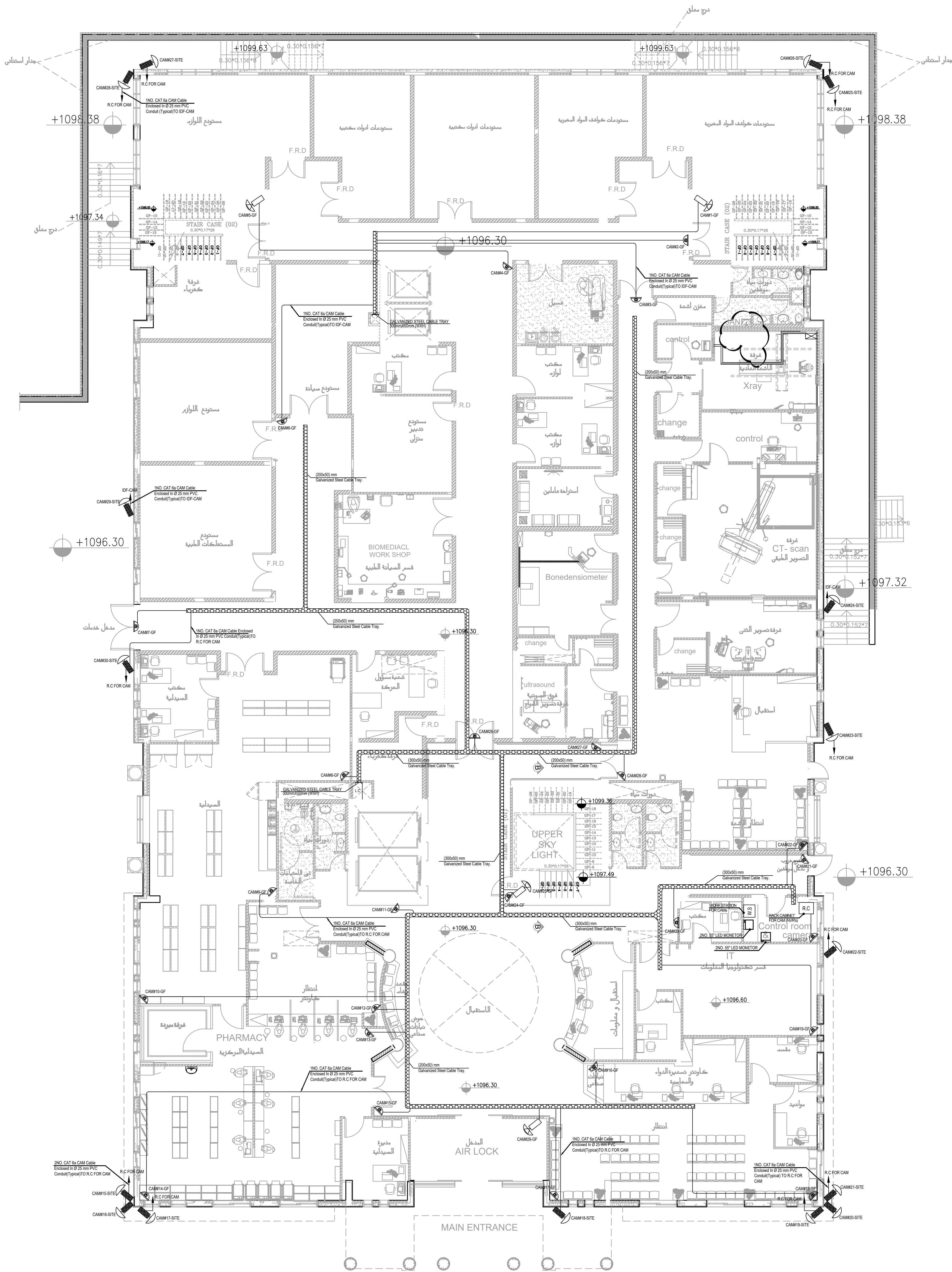


NOTES:

PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY		REMARKS	
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS				
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo				
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY				
DRG. TITLE	CONFERENCE SYSTEM RISER DIAGRAM				
DRAWN BY : ELEC.T				SCALE: N.T.S	
DESIGNED BY : A.F				DATE : DEC.-2023	
CHECKED BY : S.J				PROJECT No. DRAWING No.	
APPROVED BY: S.J				E-605	



CONFERENCE SYSTEM RISER DIAGRAM



NOTES:

PLOT NO : 1

DISTRICT : KARAK

BASIN : 14 TALAT EAWAHAD

REV. MARK DATE MADE BY REMARKS

CLIENT THE NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

MP MADI & PARTNERS CONSULTING ENGINEERS
C E TEL.5829640-5829641 FAX.5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

DRG. TITLE GROUND FLOOR
CCTV SYSTEM LAYOUT

DRAWN BY : ELEC.T

SCALE: 1:100

DESIGNED BY : A.F

DATE :DEC.-2023

CHECKED BY : S.J

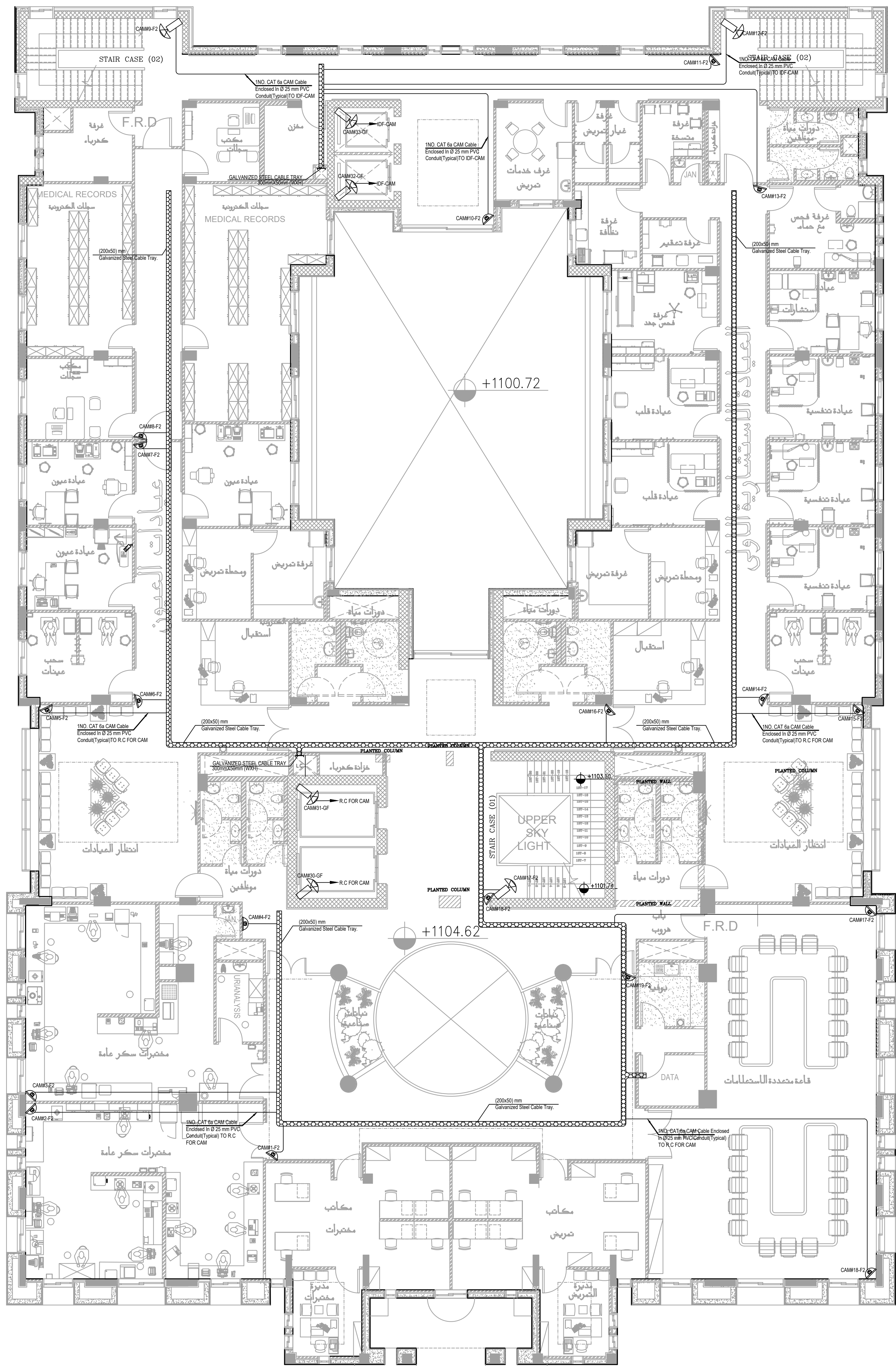
PROJECT No. DRAWING No.

APPROVED BY: S.J

E-700



PLOT NO		1	
DISTRICT		KARAK	
BASIN		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
CLIENT		THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS	
MP	MADI & PARTNERS CONSULTING ENGINEERS		
CE	TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	FIRST FLOOR CCTV SYSTEM LAYOUT		
DRAWN BY : ELEC.T		SCALE: 1:100	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J		E-701	



الطابق الثاني



NOTES:

PLOT NO : 1
DISTRICT : KARAK
BASIN : 14 TALAT EAWAHAD

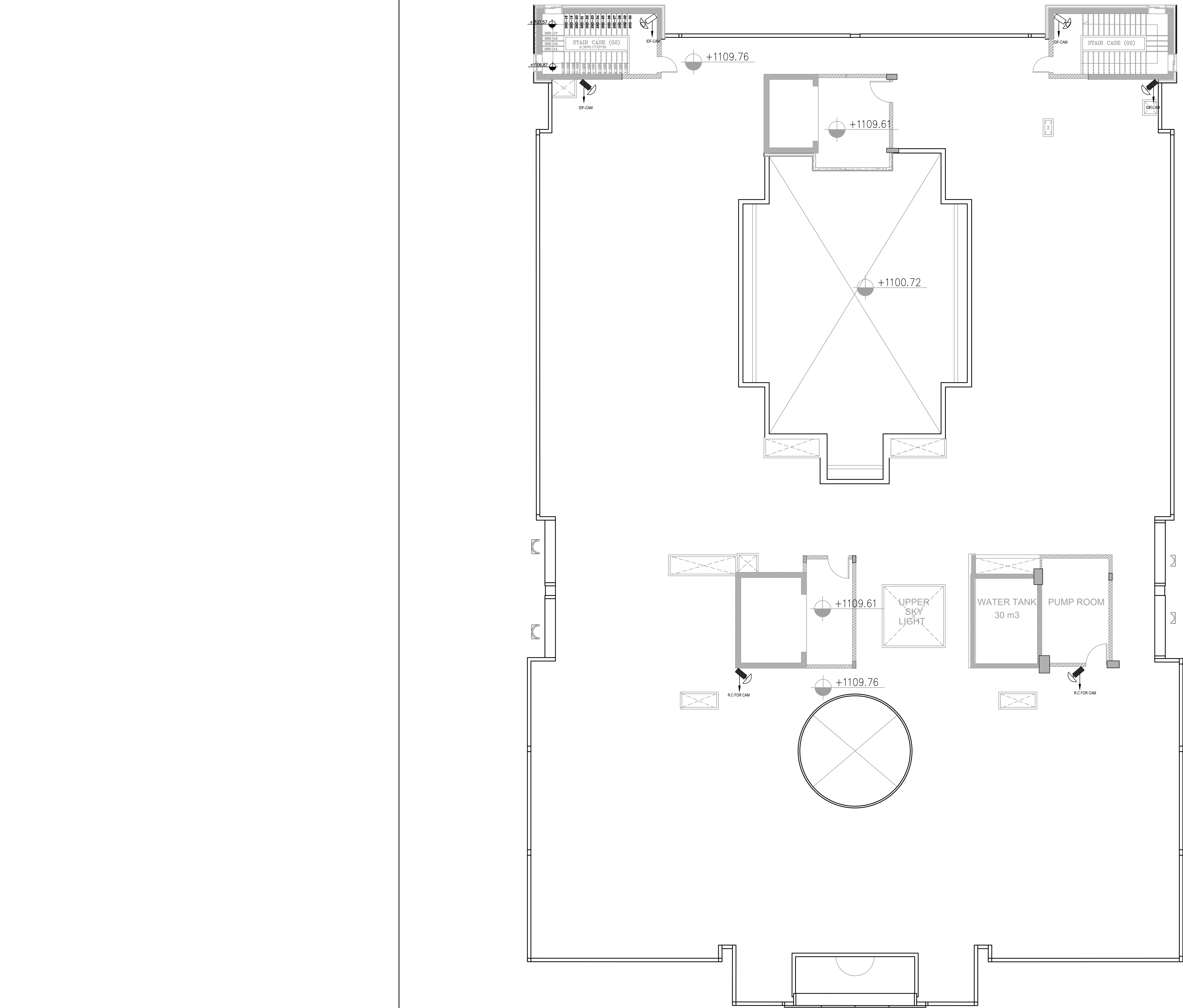
REV. MARK DATE MADE BY REMARKS
CLIENT THE NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

M P MADI & PARTNERS CONSULTING ENGINEERS
C E TEL.5829640-5829641 FAX.5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

DRG. SECOND FLOOR
TITLE CCTV SYSTEM LAYOUT

DRAWN BY : ELEC.T SCALE: 1:100
DESIGNED BY : A.F DATE : DEC.-2023
CHECKED BY : S.J PROJECT No. DRAWING No.
APPROVED BY: S.J E-702

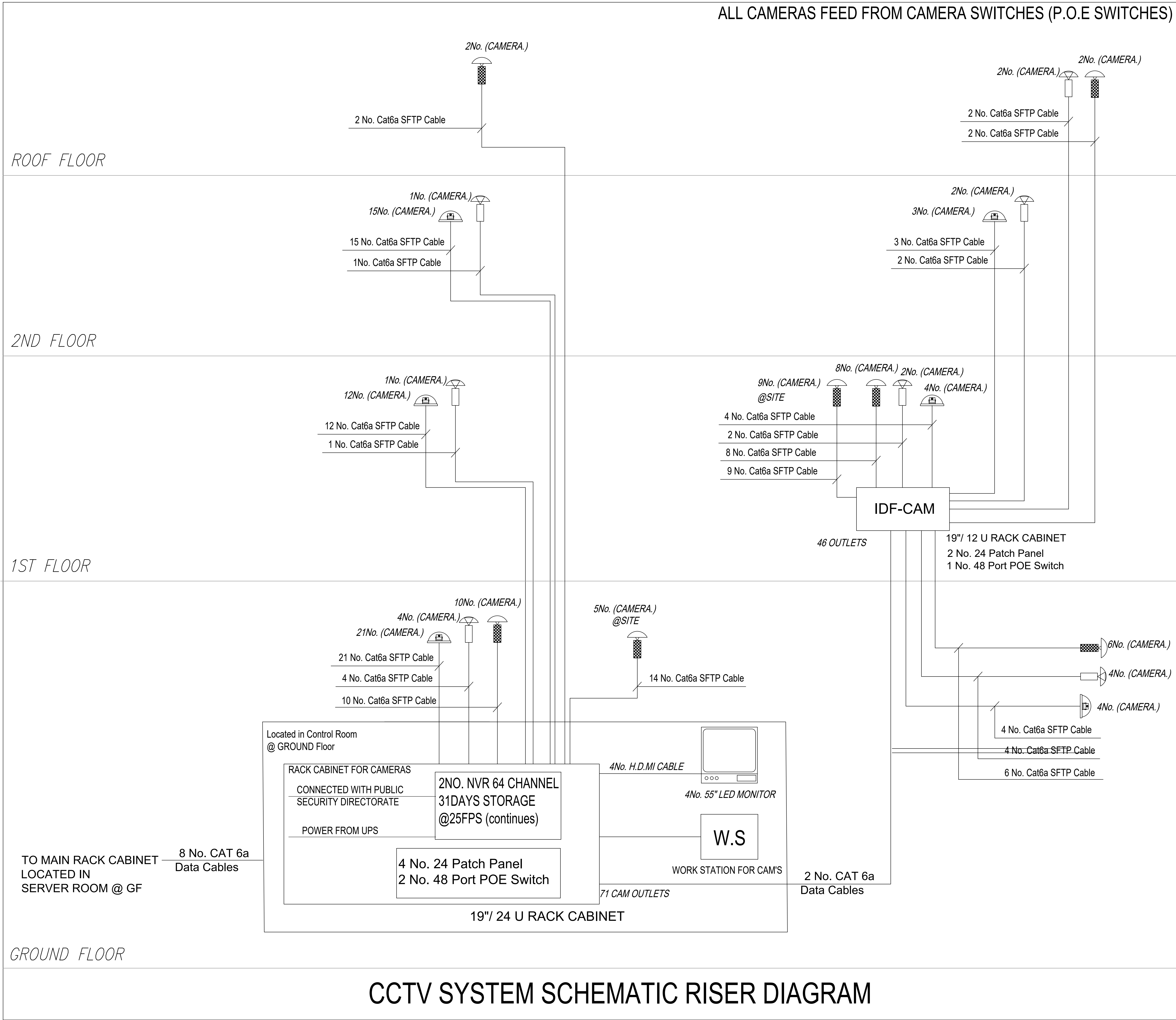




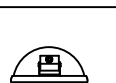


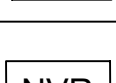
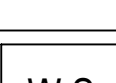
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NOTES:

PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
REV. MARK	DATE	MADE BY	REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
MP CE	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	ROOF FLOOR CCTV SYSTEM LAYOUT		
DRAWN BY : ELEC.T		SCALE : 1:100	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J			E-703

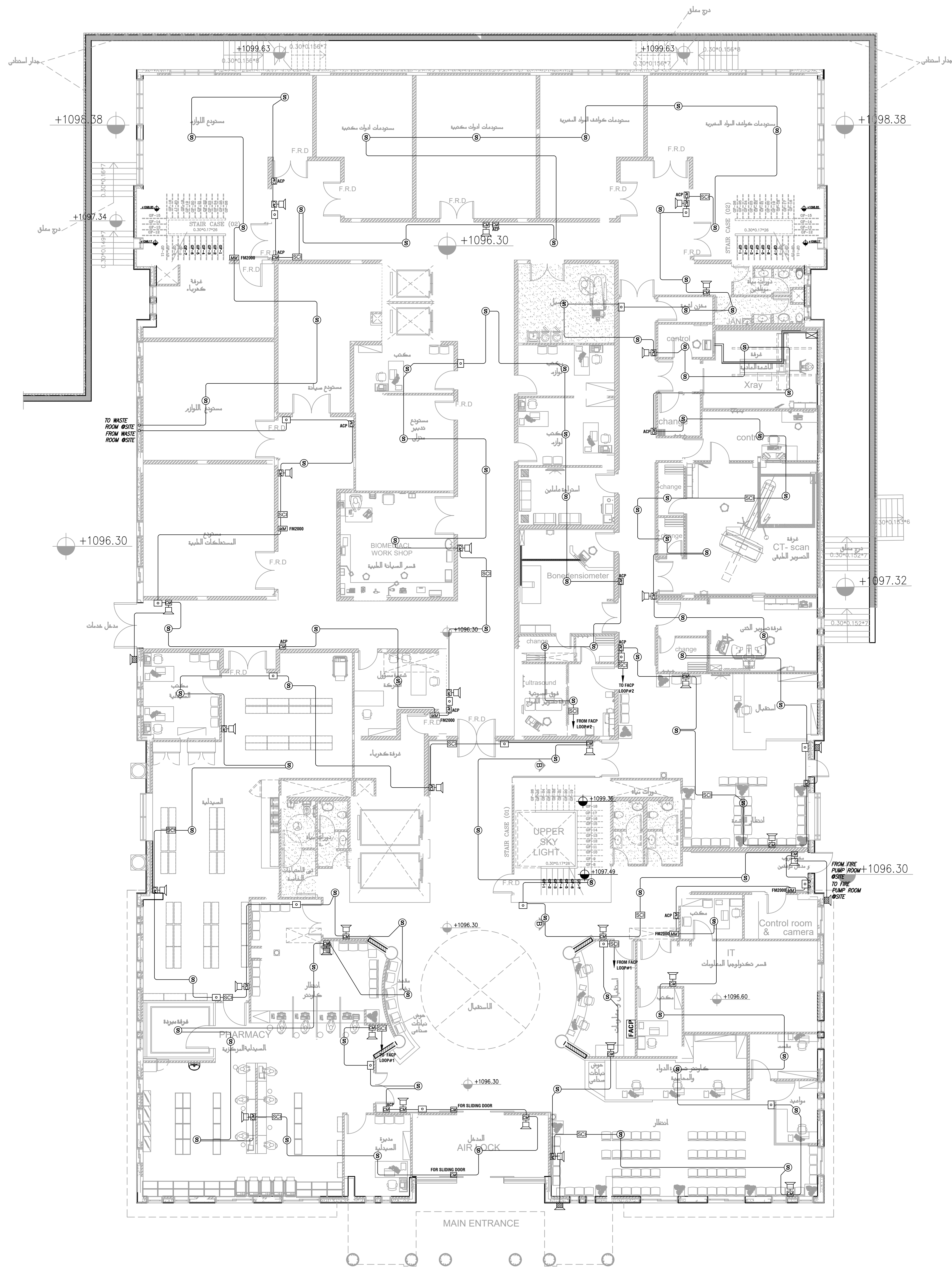


CCTV SYSTEM LEGEND	
SYMBOL	DESCRIPTION
	IP CAMERA WITH 5 MEGA PIXEL High Resolution
	IP CAMERA (WATER PROOF) WITH 8 MEGA PIXEL High Resolution,IP66
	IP DOME CAMERA WITH 5 MEGA PIXEL High Resolution
	19" RACK CABINET FOR NVR'S
	LED MONITOR 55" .
	NETWORK VIDEO RECORDER.
	WORK STATION



NOTES:

PLOT NO		1	
DISTRICT		KARAK	
BASIN		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
CLIENT THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	CCTV SYSTEM SCHEMATIC RISER DIAGRAM		
DRAWN BY : ELEC.T		SCALE : N.T.S	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J		E-704	

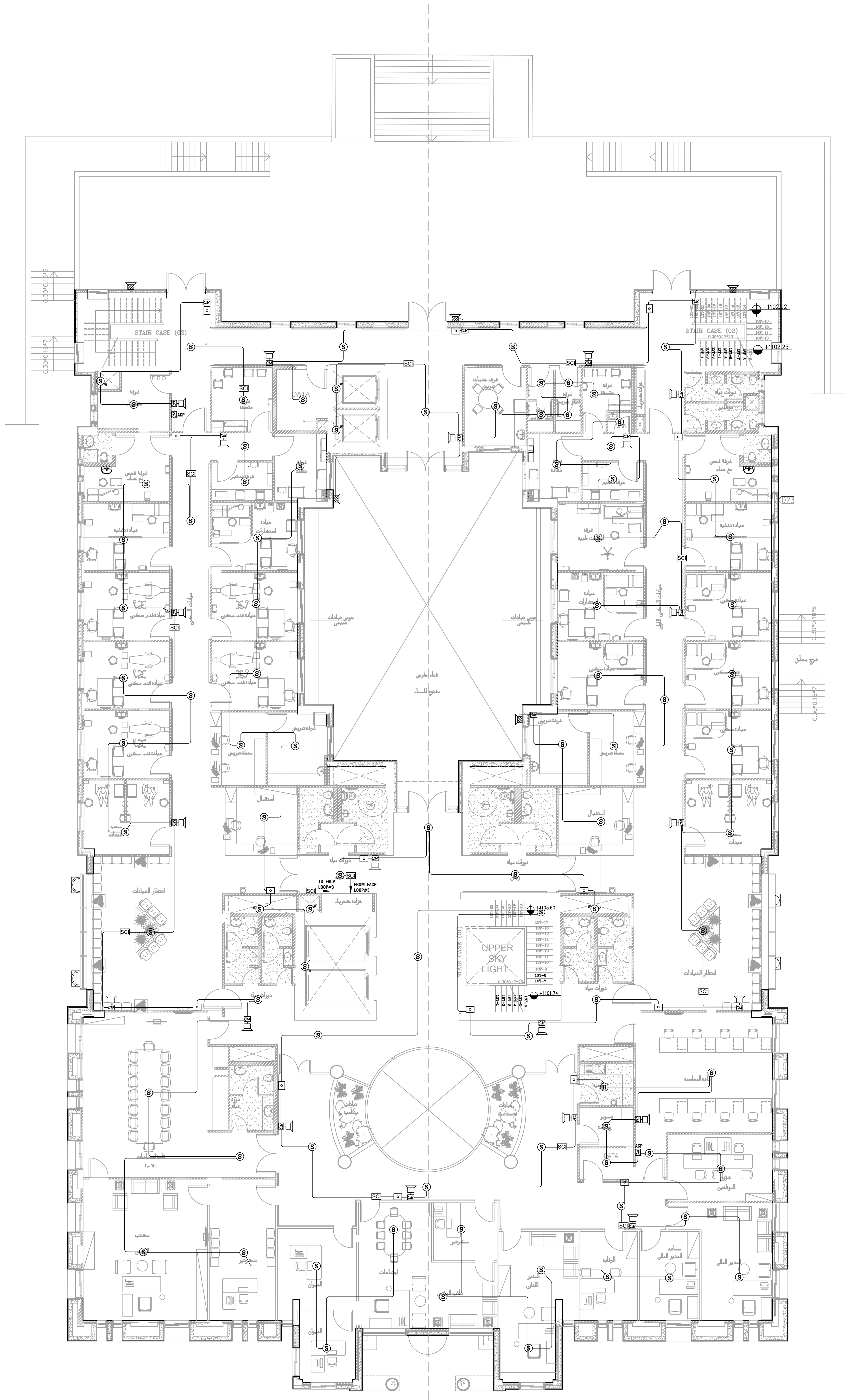


الطابق الارضى



NOTES:

PLOT NO		:	1	
DISTRICT		:	KARAK	
BASIN		:	14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS	
CLIENT		THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
M	P	MADI & PARTNERS CONSULTING ENGINEERS		
C	E	TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT		NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	GROUND FLOOR FIRE ALARM SYSTEM LAYOUT			
DRAWN BY : ELEC.T			SCALE : 1:100	
DESIGNED BY : A.F			DATE : DEC.-2023	
CHECKED BY : S.J			PROJECT No.	DRAWING No.
APPROVED BY: S.J				
			E-800	

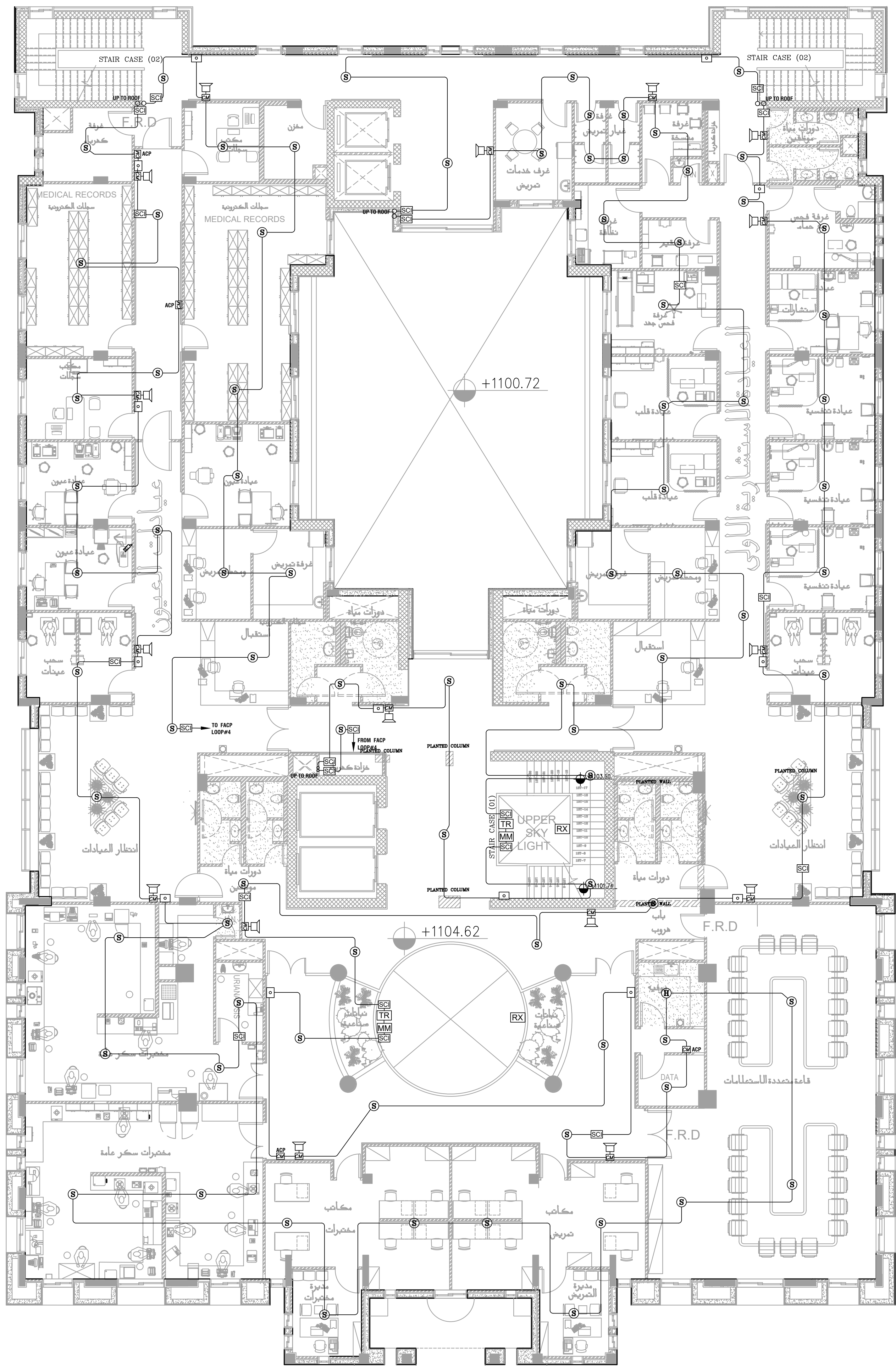


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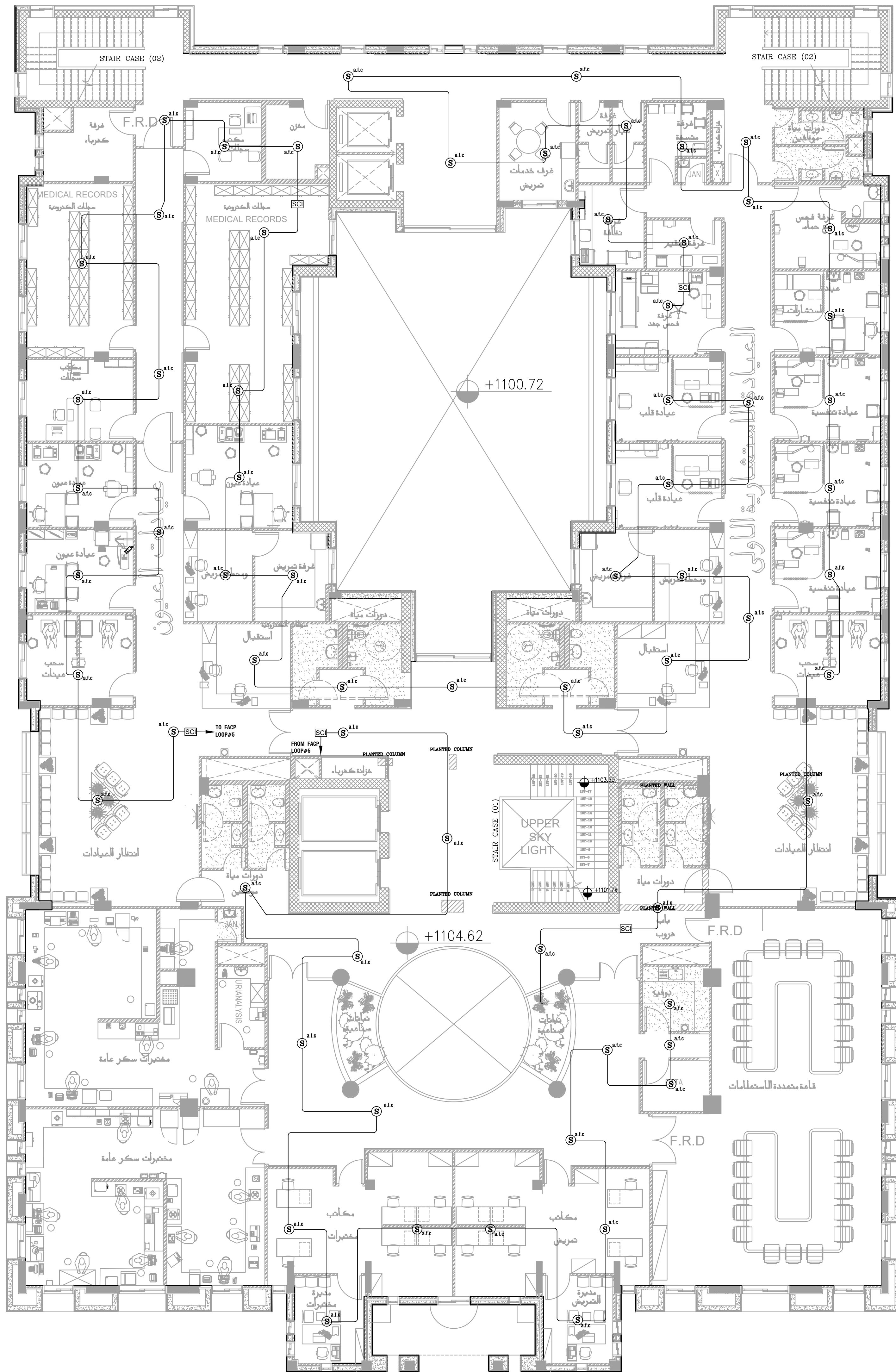


NOTES:

PLOT NO		1	
DISTRICT		KARAK	
BASIN		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
M P C E	MADI & PARTNERS CONSULTING ENGINEERS		
	TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	FIRST FLOOR FIRE ALARM SYSTEM LAYOUT		
DRAWN BY : ELEC.T		SCALE: 1:100	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No. E-801
APPROVED BY: S.J			



الطابق الثاني

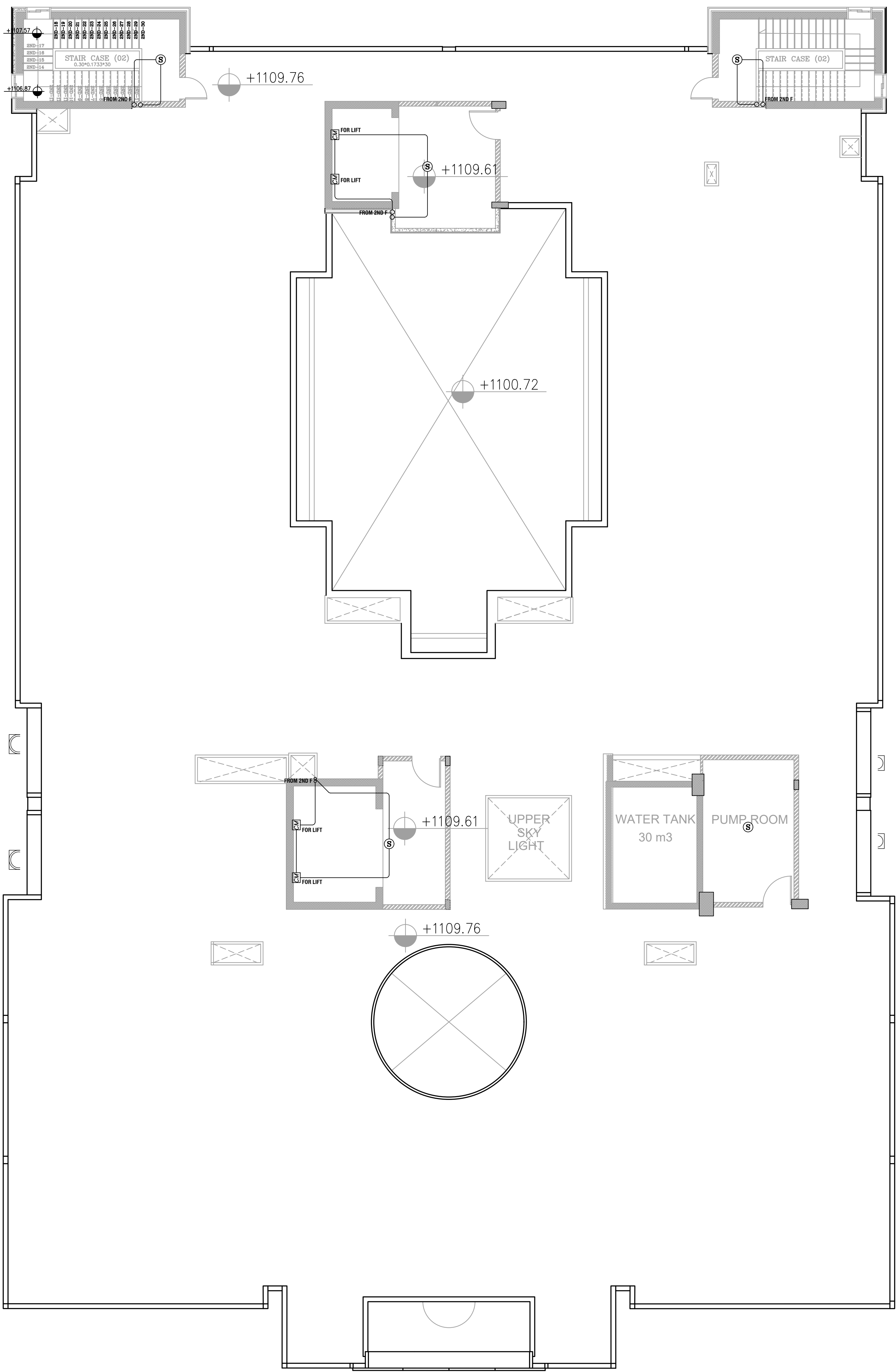


الطابق الثاني



NOTES:

PLOT NO		1	
DISTRICT		KARAK	
BASIN		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
CLIENT THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	SECOND FLOOR FIRE ALARM SYSTEM LAYOUT FIRE ALARM SYSTEM (ABOVE FOR CEILING)		
DRAWN BY : ELEC.T		SCALE: 1:100	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J		E-802	

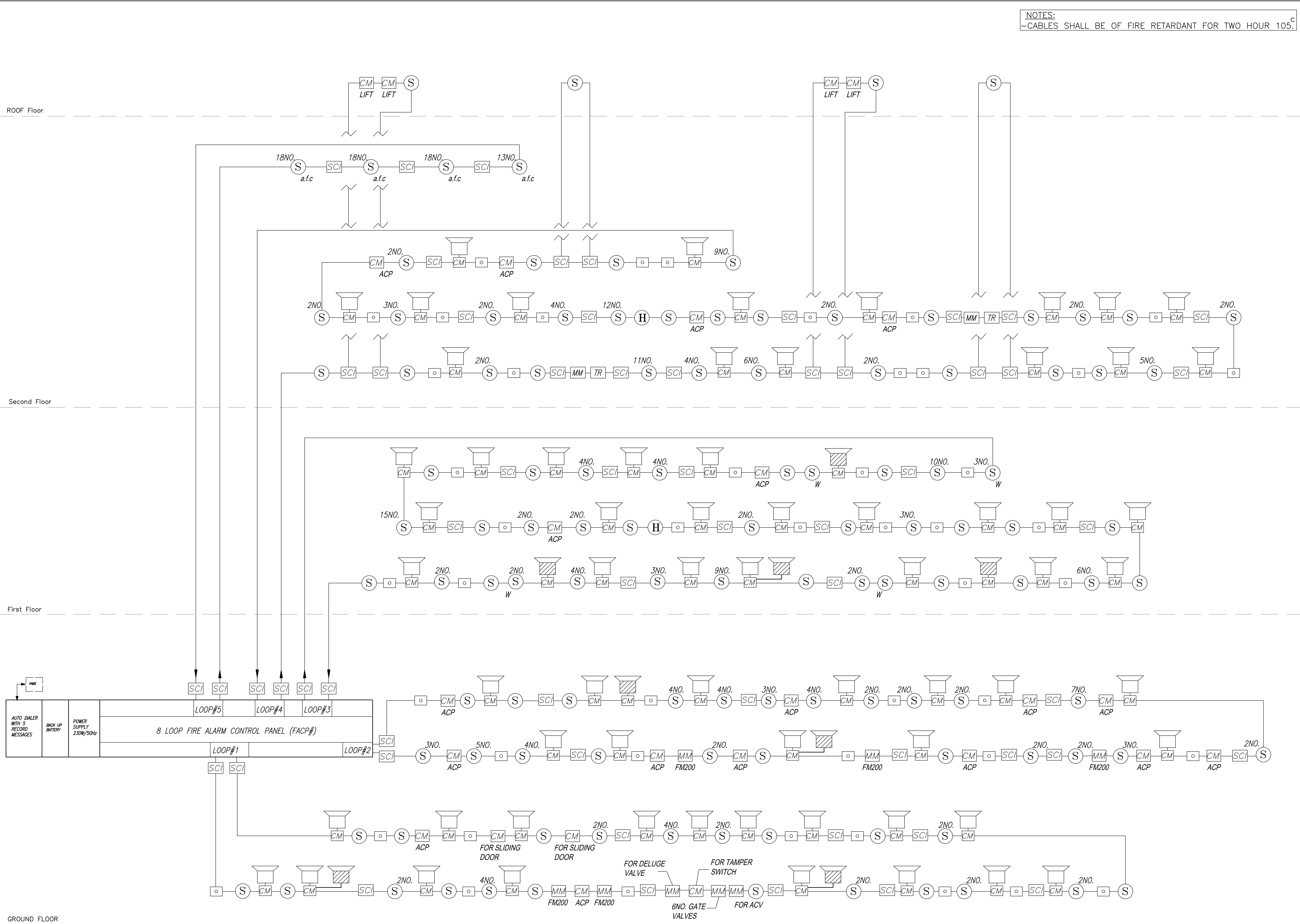


طابق الروف



NOTES:

PLOT NO		1	
DISTRICT		KARAK	
BASIN		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
CLIENT		THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS	
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
	PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	ROOF FLOOR FIRE ALARM SYSTEM LAYOUT		
DRAWN BY : ELEC.T		SCALE : 1:100	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No. E-803
APPROVED BY: S.J			



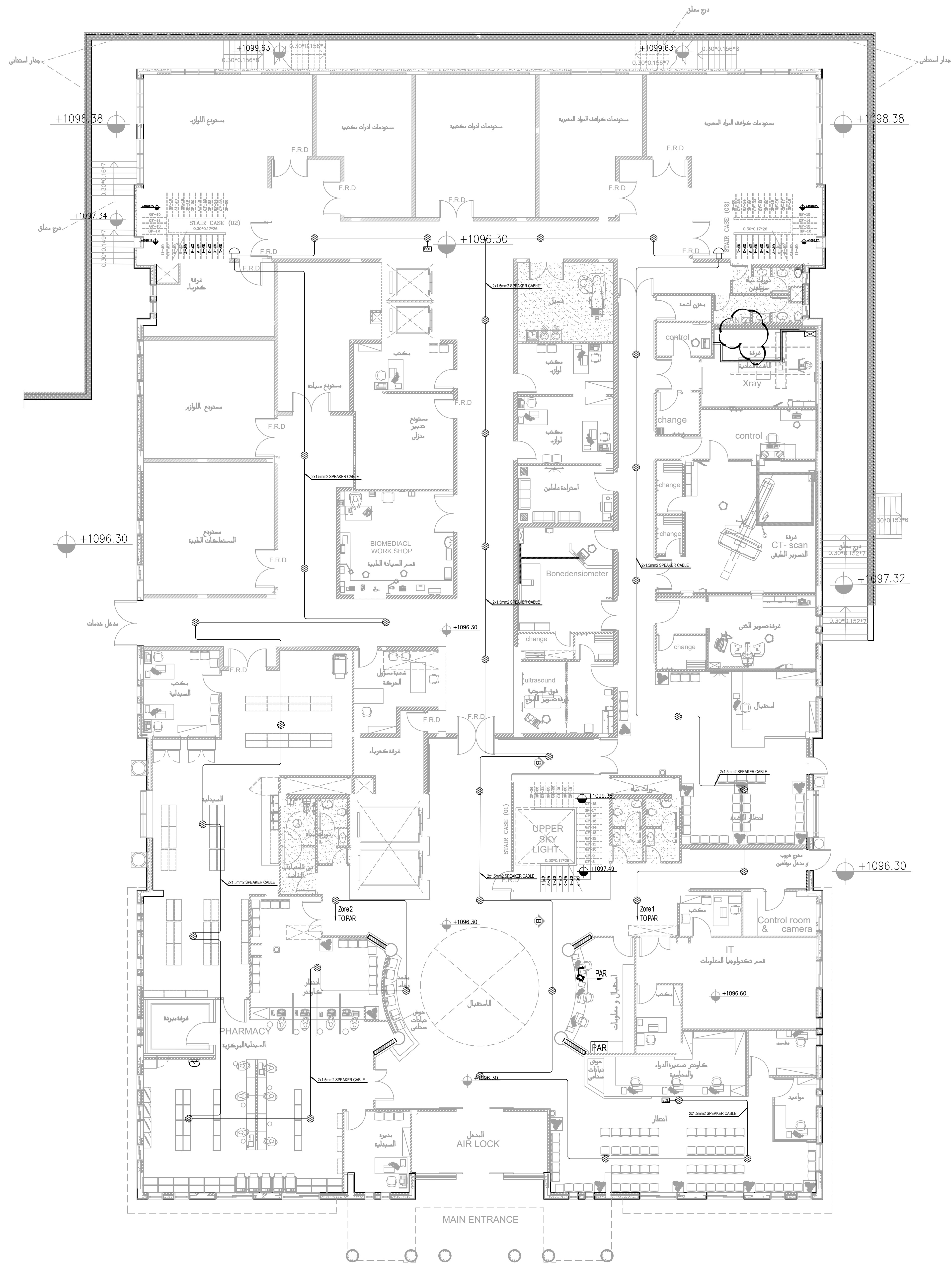
NOTES:
-CABLES SHALL BE OF FIRE RETARDANT FOR TWO HOUR 105.



NOTES:

PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
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CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS				
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo				
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY				
DRG. TITLE	FIRE ALARM SYSTEM RISER DIAGRAM				
DRAWN BY : ELEC.T				SCALE : N.T.S	
DESIGNED BY : A.F				DATE : DEC. - 2023	
CHECKED BY : S.J				PROJECT No.	
APPROVED BY: S.J				DRAWING No. E-804	

FIRE ALARM SYSTEM RISER DIAGRAM

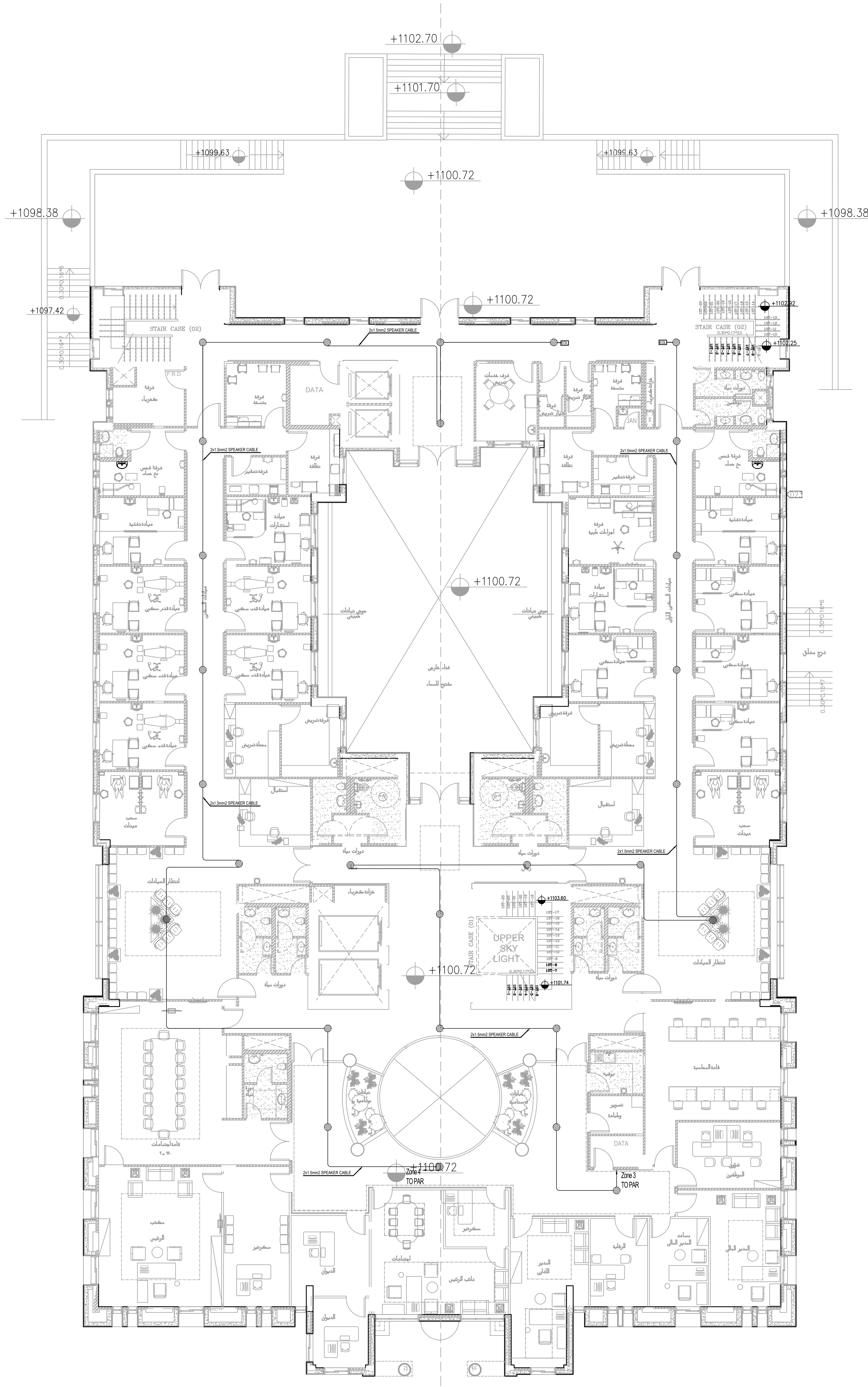


الطابق الارضى



NOTES:

PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
REV.	MARK	DATE	MADE BY
REMARKS			
CLIENT		THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS	
M P C E		MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo	
PROJECT		NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY	
DRG. TITLE		GROUND FLOOR PUBLIC ADDRESS SYSTEM LAYOUT	
DRAWN BY : ELEC.T		SCALE : 1:100	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No. DRAWING No.	
APPROVED BY: S.J		E-900	



الطابق الاول

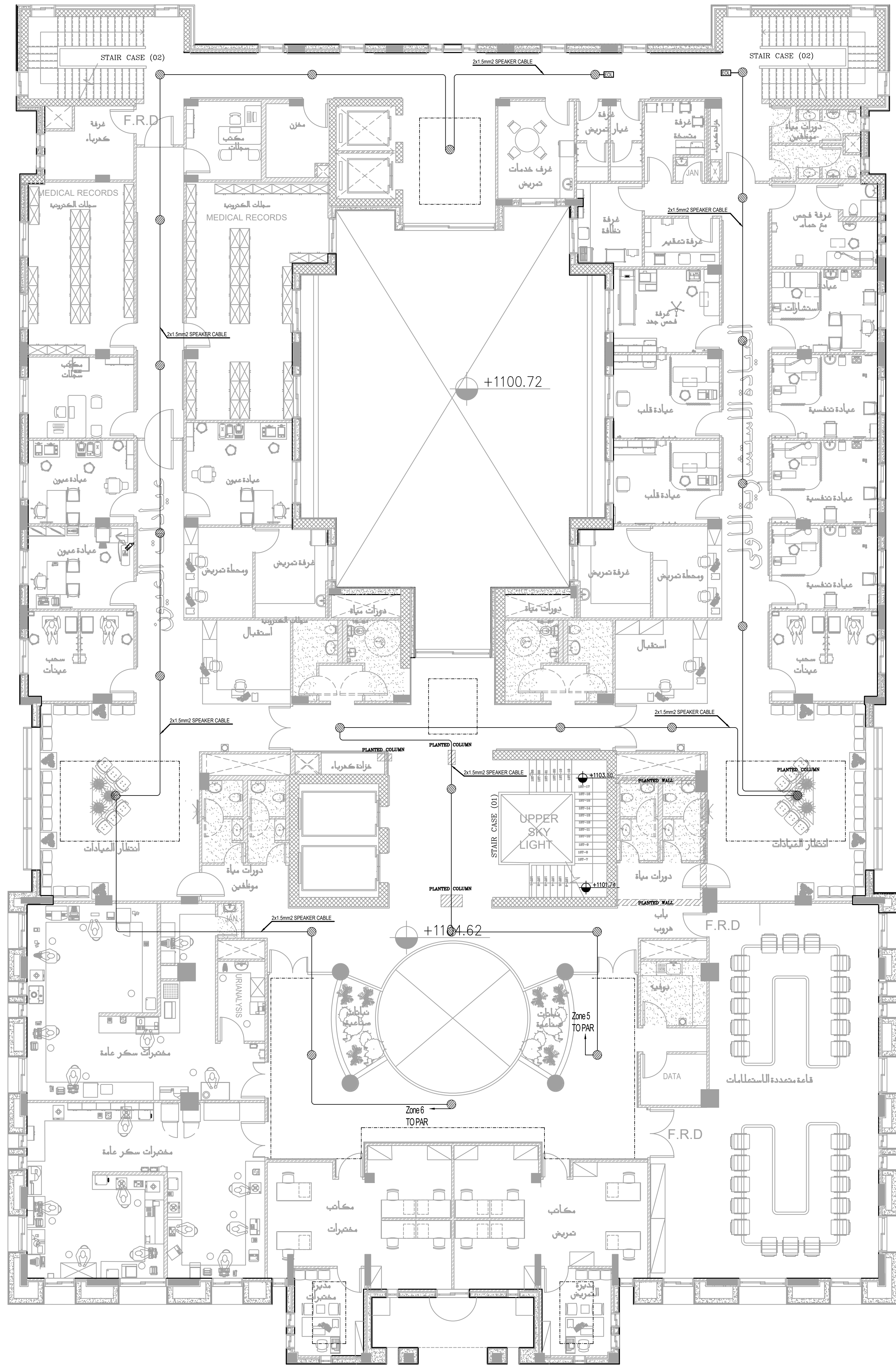


NOTES:

PLOT NO		1	
DISTRICT		KARAK	
BASIN		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
MP	MADI & PARTNERS CONSULTING ENGINEERS		
CE	TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	FIRST FLOOR PUBLIC ADDRESS SYSTEM LAYOUT		
DRAWN BY : ELEC.T		SCALE: 1:100	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J		E-901	

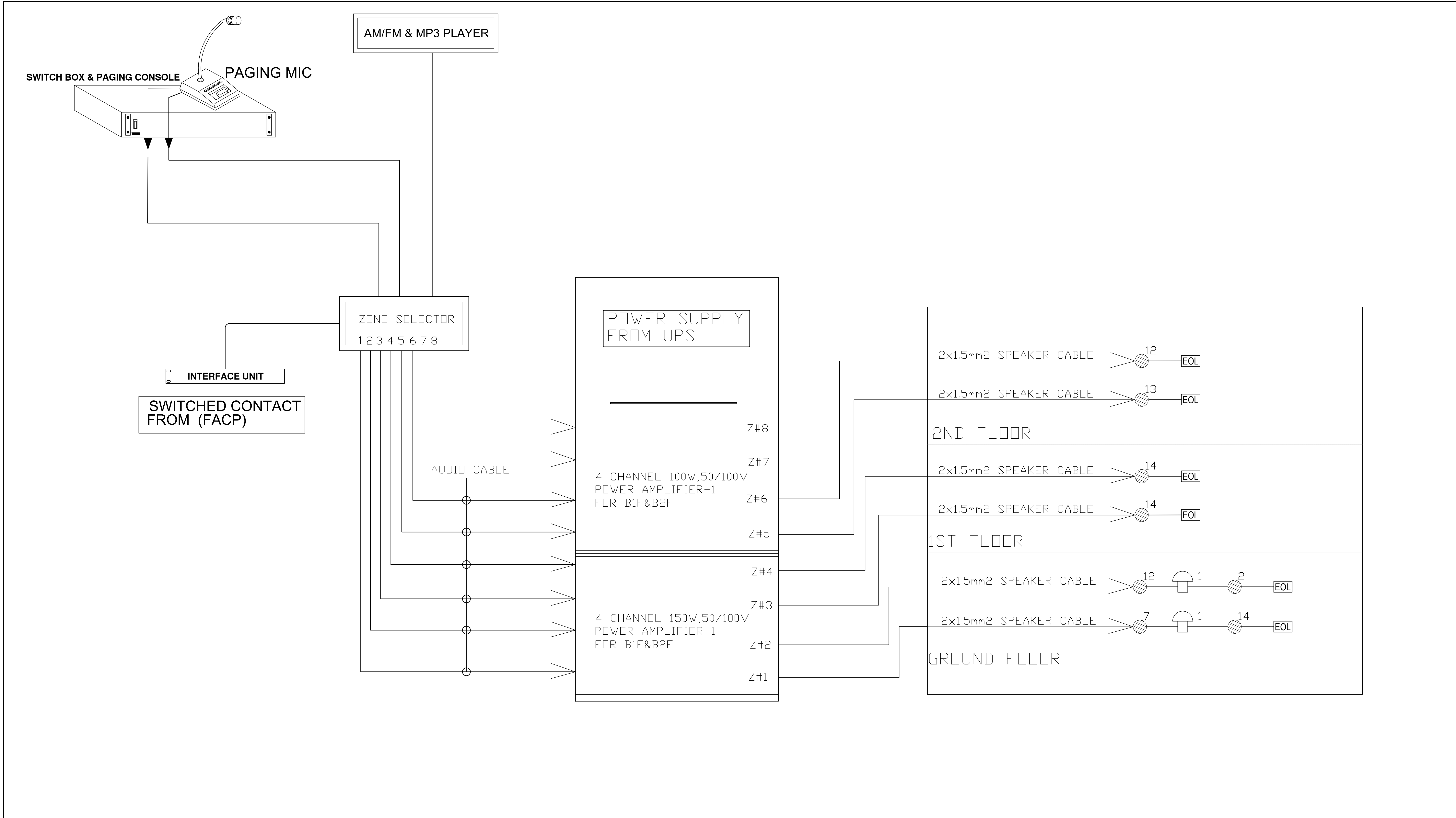


NOTES:



الطابق الثاني

PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
REV.	MARK	DATE	MADE BY
REMARKS			
CLIENT		THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS	
M P C E		MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo	
PROJECT		NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY	
DRG. TITLE		SECOND FLOOR PUBLIC ADDRESS SYSTEM LAYOUT	
DRAWN BY : ELEC.T		SCALE : 1:100	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No. DRAWING No.	
APPROVED BY: S.J		E-902	



PUBLIC ADDRESS SYSTEM SCHEMATIC RISER DIAGRAM



NOTES:

PLOT NO		1	
DISTRICT		KARAK	
BASIN		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
M P C E	MADI & PARTNERS CONSULTING ENGINEERS		
	TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	PUBLIC ADDRESS SYSTEM SCHEMATIC RISER		
DRAWN BY : ELEC.T		SCALE: N.T.S	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J			
		E-903	



NOTES:

PLOT NO : 1

DISTRICT : KARAK

BASIN : 14 TALAT EAWAHAD

REV. MARK DATE MADE BY REMARKS

CLIENT THE NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

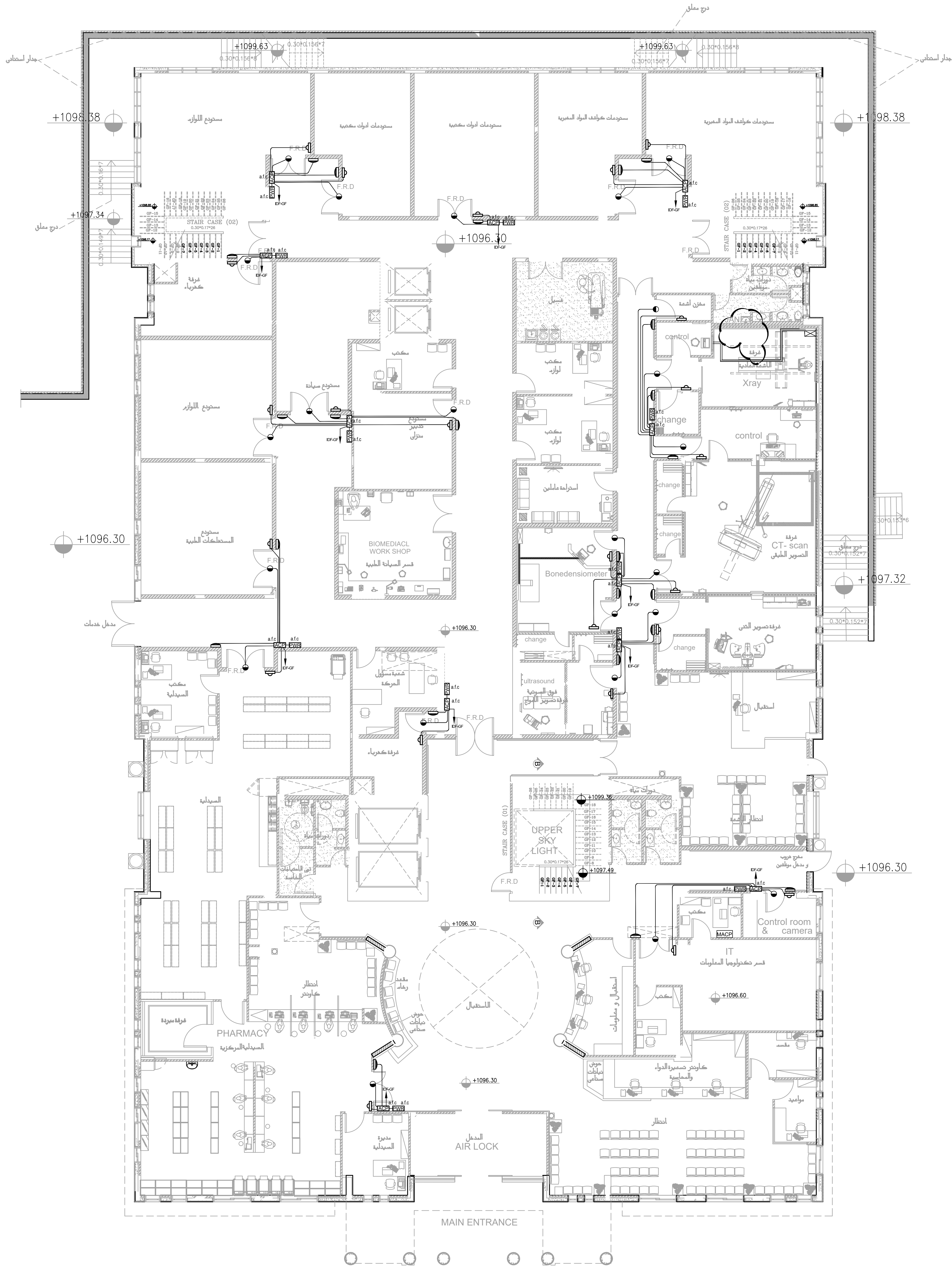
DRG. TITLE GROUND FLOOR
ACCESS CONTROL SYSTEM LAYOUT

DRAWN BY : ELEC.T SCALE: 1:100

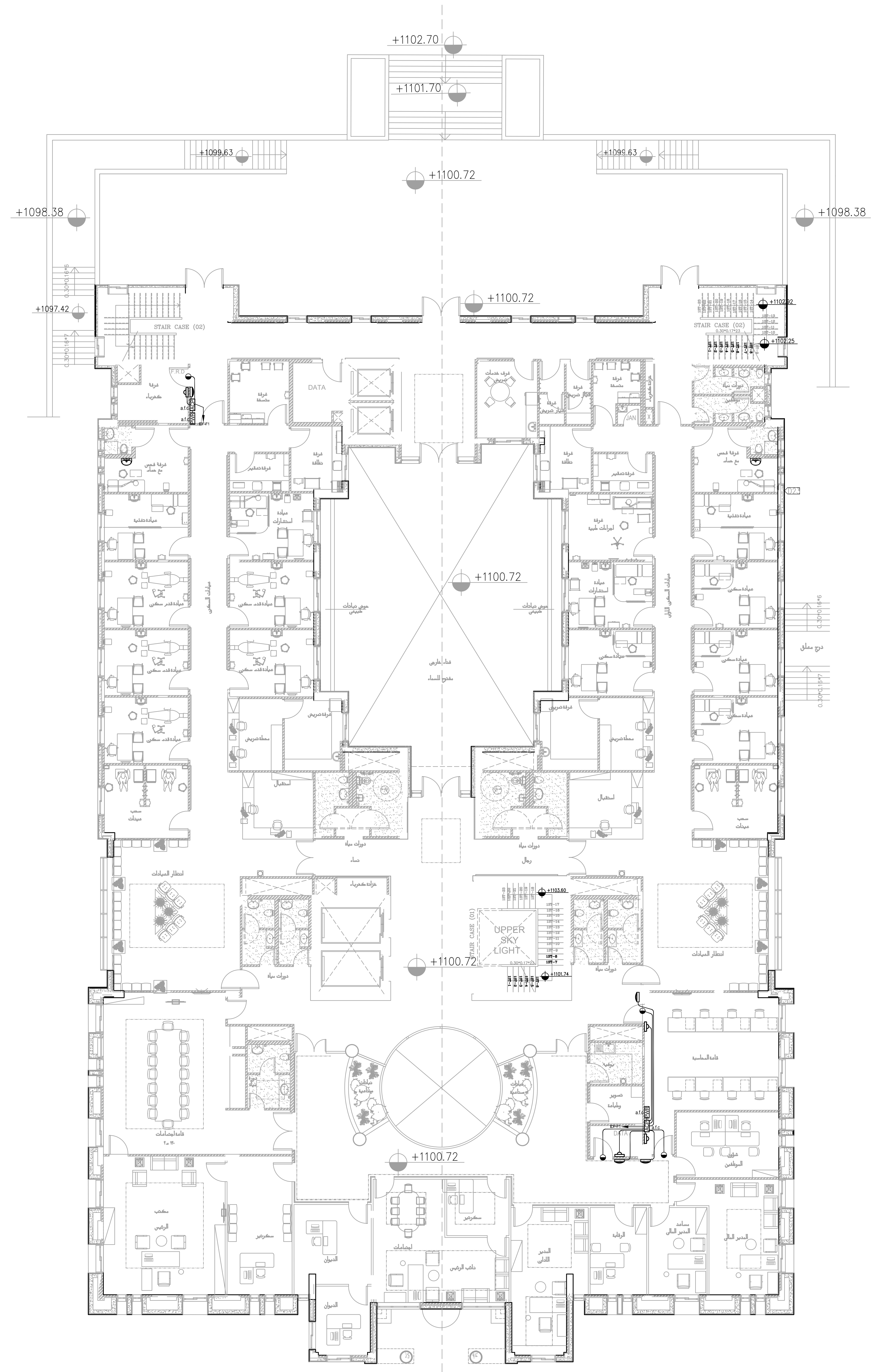
DESIGNED BY : A.F DATE : DEC.-2023

CHECKED BY : S.J PROJECT No. DRAWING No.

APPROVED BY: S.J E-1000

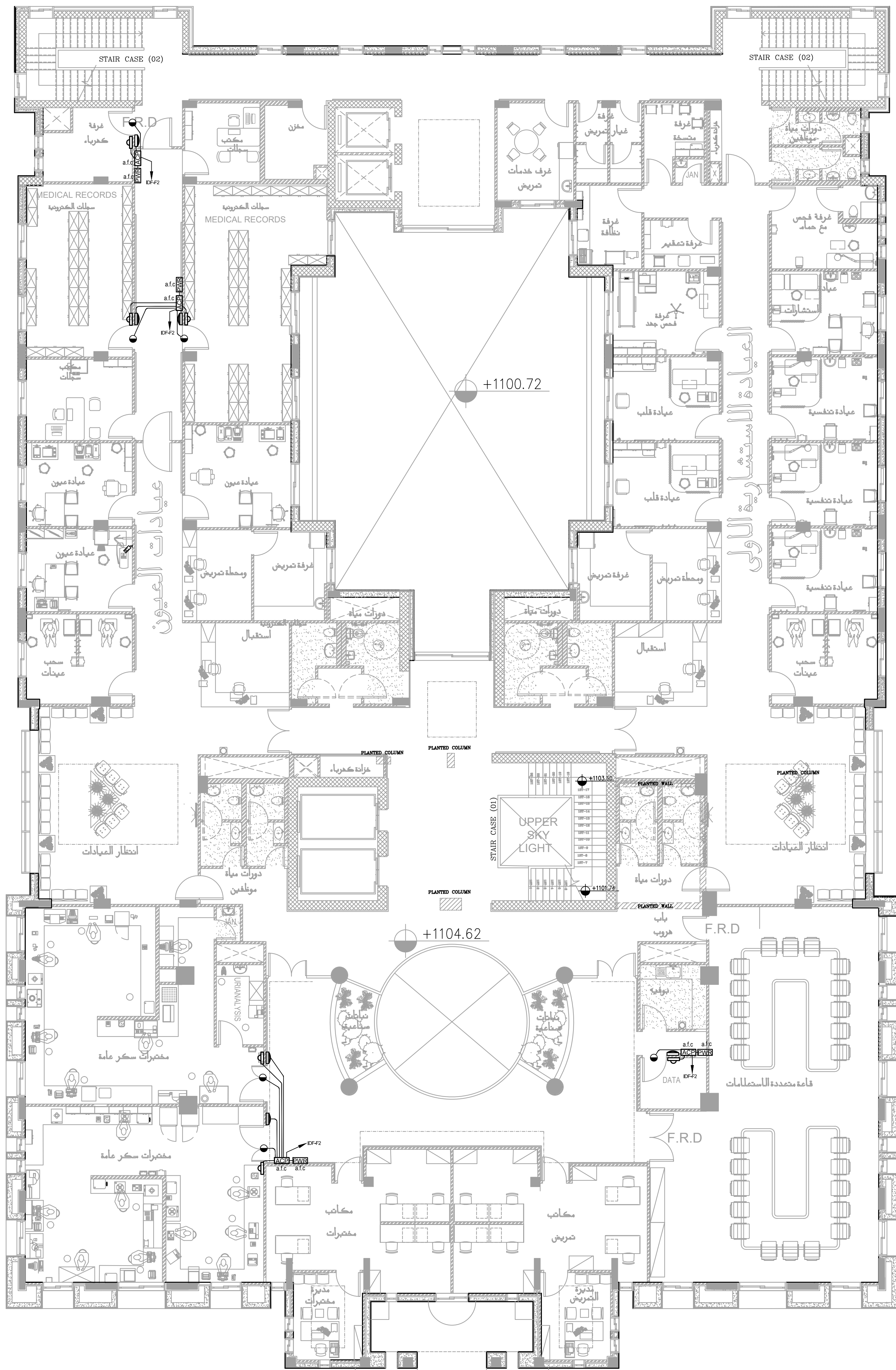


الطابق الارضى



APPROVED BY: S.J	E-1001
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E-1001

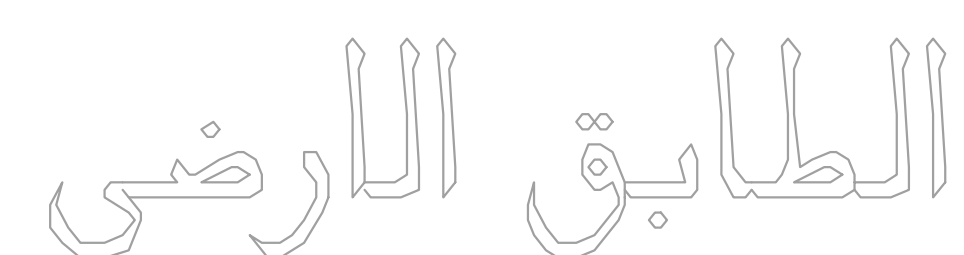


الطابق الثاني



NOTES:

PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
REV. MARK	DATE	MADE BY	REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	SECOND FLOOR ACCESS CONTROL SYSTEM LAYOUT		
DRAWN BY : ELEC.T		SCALE : 1:100	
DESIGNED BY : A.F		DATE : DEC.-2023	
CHECKED BY : S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J			E-1002



PLOT NO	:	1	
DISTRICT	:	KARAK	
BASIN	:	14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
M P	MADI & PARTNERS CONSULTING ENGINEERS		
C E	TEL.5829640 - 5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	GROUND FLOOR QUEUEING SYSTEM LAYOUT		
DRAWN BY : ELEC.T		SCALE: 1:100	
DESIGNED BY: A.F		DATE : DEC.-2023	
CHECKED BY: S.J		PROJECT No.	DRAWING No.
APPROVED BY: S.J		E-1100	