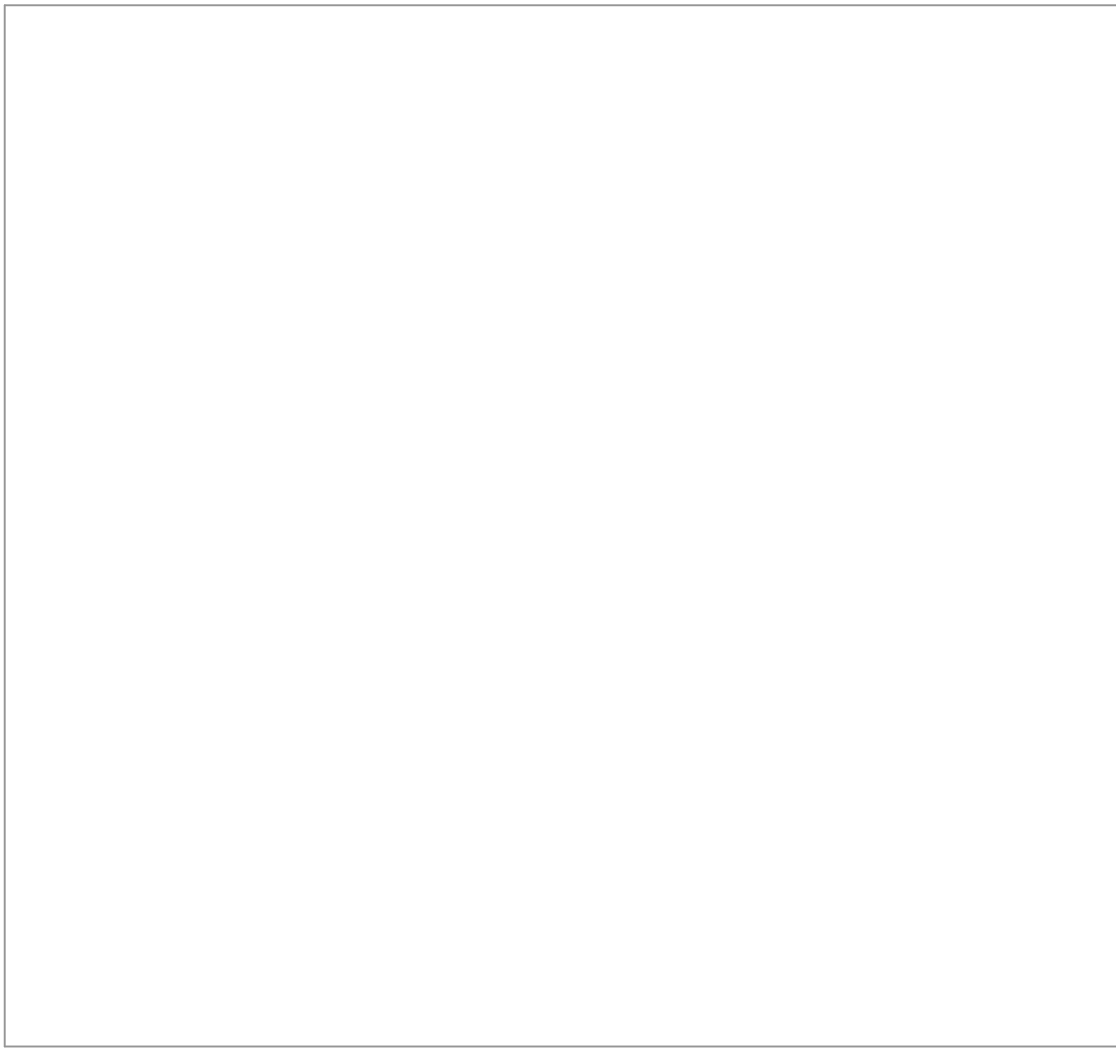



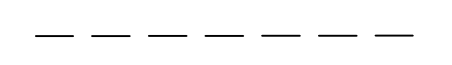
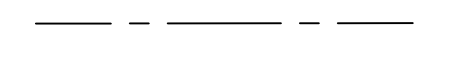
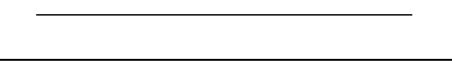
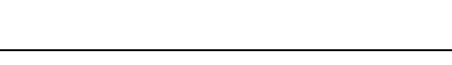
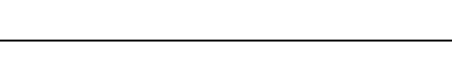
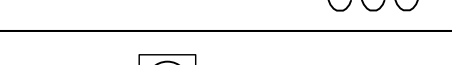
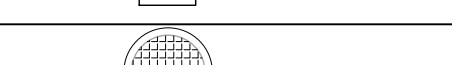
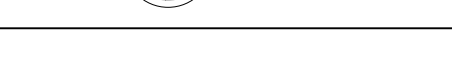
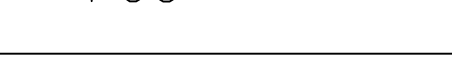
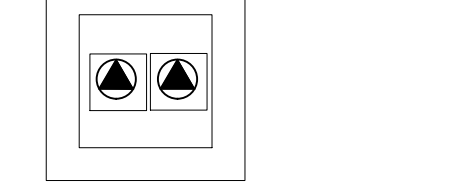
LIST OF DRAWINGS		
NO.	DRAWINGS NAME	SCALE
M-000	MECHANICAL LEGENDS	N.T.S
M-001	SITE PLAN: DRAINAGE SYSTEM LAYOUT	1:200
M-002	SITE PLAN: WATER SYSTEM LAYOUT	1:200
M-003	SITE PLAN: RAIN WATER AND IRRIGATION SYSTEM LAYOUT	1:200
M-004	SITE PLAN: FIRE FIGHTING SYSTEM LAYOUT	1:200
M-100	GROUND AND FIRST FLOOR: DRAINAGE SYSTEM LAYOUT	1:100
M-101	SECOND AND ROOF FLOOR: DRAINAGE SYSTEM LAYOUT	1:100
M-200	GROUND AND FIRST FLOOR: WATER SYSTEM LAYOUT	1:100
M-201	SECOND AND ROOF FLOOR: WATER SYSTEM LAYOUT	1:100
M-202	COLD WATER SYSTEM RISER DIAGRAM	N.T.S
M-203	HOT WATER SYSTEM RISER DIAGRAM	N.T.S
M-204	RO WATER SYSTEM RISER DIAGRAM	N.T.S
M-300	GROUND AND FIRST FLOOR: FIRE FIGHTING SYSTEM LAYOUT	1:100
M-301	SECOND FLOOR : FIRE FIGHTING SYSTEM LAYOUT	1:100
M-302	FIRE FIGHTING SYSTEM RISER DIAGRAM	N.T.S
M-400	GROUND AND FIRST FLOOR: HVAC – PIPING SYSTEM LAYOUT	1:100
M-401	SECOND AND ROOF FLOOR: HVAC – PIPING SYSTEM LAYOUT	1:100
M-500	GROUND AND FIRST FLOOR: HVAC – DUCTING SYSTEM LAYOUT	1:100
M-501	SECOND AND ROOF FLOOR: HVAC – DUCTING SYSTEM LAYOUT	1:100
M-600	GROUND & FIRST FLOOR: HVAC – FRESH & EXHAUST LAYOUT	1:100
M-601	SECOND FLOOR: HVAC – FRESH & EXHAUST LAYOUT	1:100
M-602	HVAC – FRESH & EXHAUST SYSTEM RISERS	N.T.S
M-700	GROUND FLOOR: HVAC–PRESSURIZATION &BALANCING LAYOUT	1:100
M-701	FIRST FLOOR: HVAC–PRESSURIZATION &BALANCING LAYOUT	1:100
M-702	SECOND FLOOR: HVAC–PRESSURIZATION &BALANCING LAYOUT	1:100
M-800	GROUND AND FIRST FLOOR: HVAC – CONDENSATION LAYOUT	1:100
M-801	SECOND FLOOR: HVAC – CONDENSATION LAYOUT	1:100
M-900	WASTE ROOM – MECHANICAL SYSTEMS	1:50
M-901	FIRE PUMP ROOM	1:50
M-1000	MECHANICAL SCHEDULES	N.T.S
M-1001	INSULATION LAYOUT	N.T.S
M-1100	MECHANICAL DETAILS-01	N.T.S
M-1101	MECHANICAL DETAILS-02	N.T.S
M-1102	MECHANICAL DETAILS-03	N.T.S
M-1103	MECHANICAL DETAILS-04	N.T.S
M-1104	MECHANICAL DETAILS 05	N.T.S


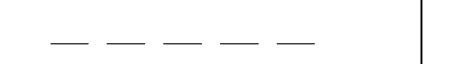
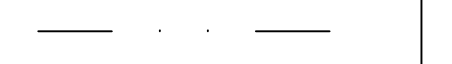
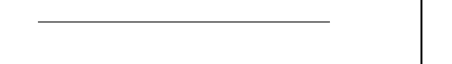
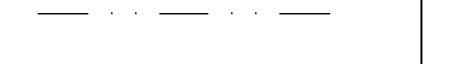

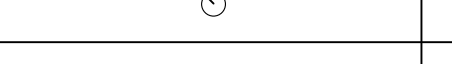
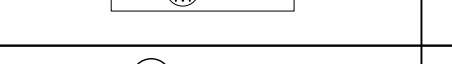
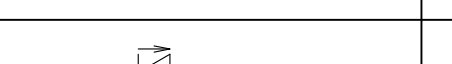

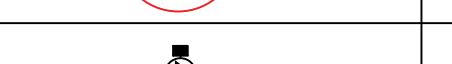

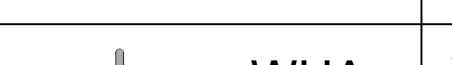
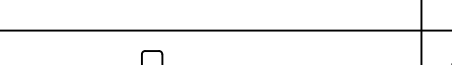
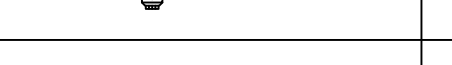
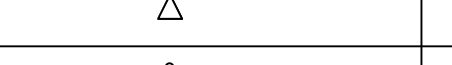
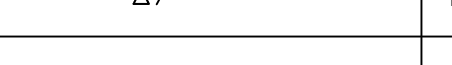



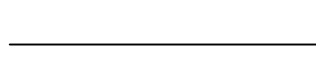
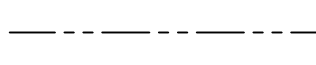
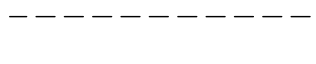
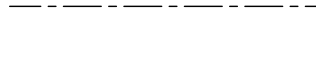
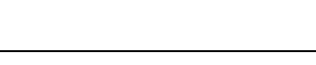
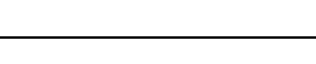

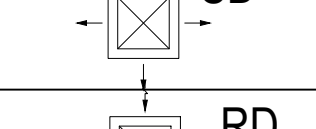
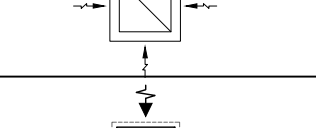
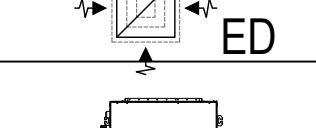
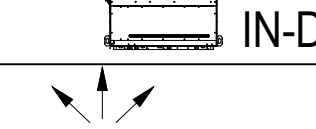

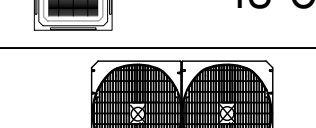
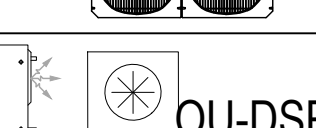
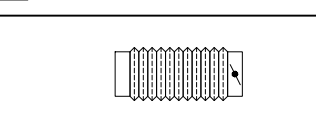
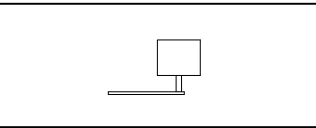
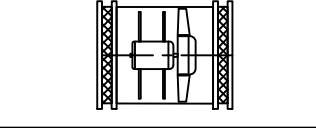
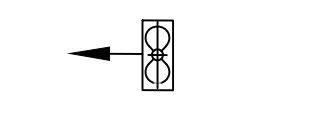
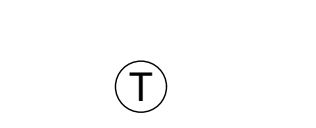
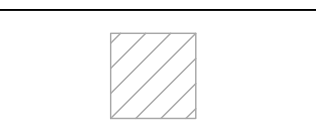
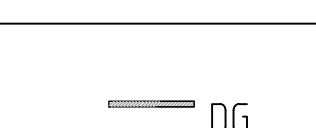
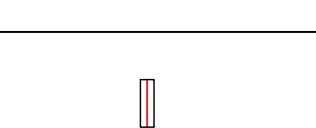
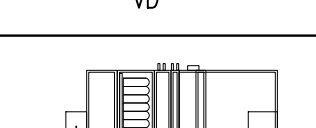
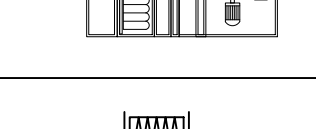
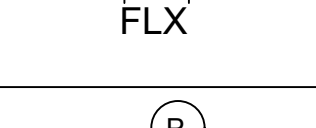
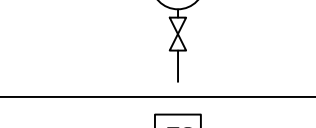
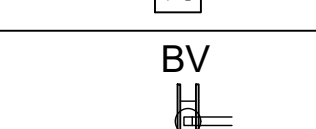
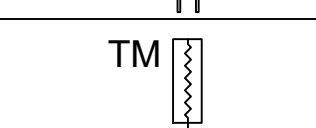
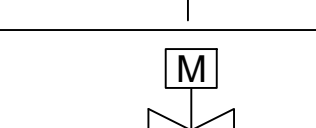



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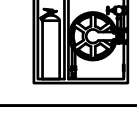
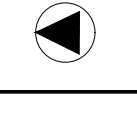
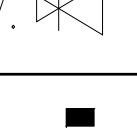
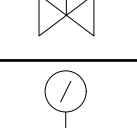
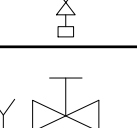
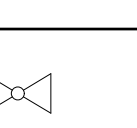
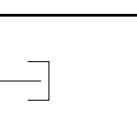
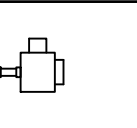
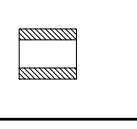
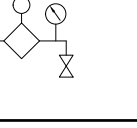
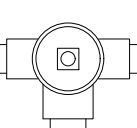
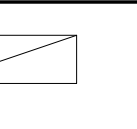
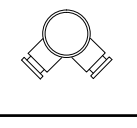
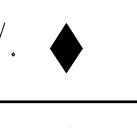
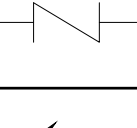
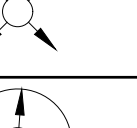
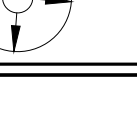
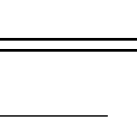
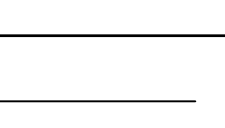
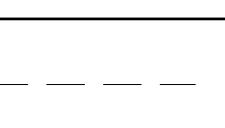
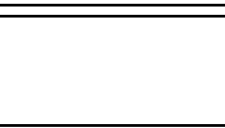
PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
REV. MARK	DATE	MADE BY	REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
MP CE	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	LIST OF MECHANICAL DRAWINGS		
DRAWN BY : MECH.T		SCALE: N.T.S	
DESIGNED BY : A.Q		DATE :DEC.-2023	
CHECKED BY : F.N		PROJECT No.	DRAWING No.
APPROVED BY: F.N			M-00

MECHANICAL ABBREVIATIONS		
LETTER	ABB.	DESCRIPTIONS
A	AC	AIR CONDITIONING
	AFC	ABOVE FALSE CEILING
C	CP	CONDENSATE DRAIN PIPE
	CCO	CEILING CLEAN OUT
	CWS	COLD WATER SUPPLY PIPE
D	DB	DRY BULB
	D/D	DROP DOWN
	DP	DRAIN PIPE
E	EA	EXHAUST AIR
	EAD	EXHAUST AIR DUCT
	EAF	EXHAUST AIR FAN
	ED	EXHAUST DIFFUSER
	EAL	EXHAUST AIR LOUVER
F	FA	FRESH AIR
	FAD	FRESH AIR DUCT
	F/A	FROM ABOVE
	F/B	FROM BELOW
	FD	FLOOR DRAIN
H	H/L	HIGH LEVEL
	HB	HOSE BIB
I	IU	INSIDE AC UNIT
K	kW	KILO WATT
L	L/L	LOW LEVEL
	L/s	LITER PER SECOND
M	m	METER
	m²	SQUARE METER
	m³	CUBIC METER
	mm	MILLIMETER
N	NRV	NON - RETURN VALVE
	NC	NORMALLY CLOSED
	NRD	NON RETURN DAMPER
	NO	NORMALLY OPEN
R	RAD	RETURN AIR DUCT
	RF	REFRIGERANT DX PIPE
	RD	RETURN DIFFUSER
	RLD	RETURN LINEAR SLOT DIFFUSER
	RWP	RAIN WATER PIPE
S	SAD	SUPPLY AIR DUCT
	SD	SUPPLY DIFFUSER
	SLD	SUPPLY LINEAR DIFFUSER
	SP	SOIL DRAIN PIPE
T	T	THERMOSTAT
	T/A	TO ABOVE
	T/B	TO BELOW
	TYP.	TYPICAL ANNOTATION FOR THE SAME FLOOR
U	U/G	UNDER GROUND
	U/S	UNDER SLAB
	U/T	UNDER TILES
V	VD	VOLUME DAMPER
	VP	VENT PIPE
	WP	WASTE DRAIN PIPE

DRAINAGE SYSTEM	
SYMBOLS	DESCRIPTIONS
	U/G DRAIN PIPE
	H/L VENT PIPE
	U/S, H/L DRAIN PIPE
	U/T DRAIN PIPE
	CONDENSATE PIPE
	RAIN WATER PIPE
	CEILING CLEAN OUT
	FLOOR DRAIN
	DRAIN MANHOLE
	FLOOR CLEAN OUT
	SUMESABLE PUMP

WATER SUPPLY SYSTEM	
SYMBOLS	DESCRIPTIONS
	COLD WATER SUPPLY
	HOT WATER SUPPLY
	HOT WATER RETURN
	R.O COLD WATER
	SOFT HOT WATER SUPPLY
	SOFT HOT WATER RETURN
	FLOATING VALVE
	MAIN WATER METER
	ELECTRICAL HEATER
	CHECK VALVE
	POLY ETHELYNE TANK
	BOOSTER PUMP
	AAV
	WHA
	THERMOSTATIC VALVE
	ISOLATING VALVE
	DOUBLE REGULATING VALVE
	EXP.J

	HVAC SYSTEM
SYMBOLS	DESCRIPTIONS
	SUPPLY AIR DUCT
	RETURN AIR DUCT
	FRESH AIR DUCT
	CLEAN EXHAUST AIR DUCT
	DIRTY EXHAUST AIR DUCT
	REFRIGERANT PIPE
	DIRECTION OF AIR FLOW
	4-WAY SUPPLY DIFFUSER
	4-WAY RETURN DIFFUSER
	4-WAY EXHAUST AIR DIFFUSER
	INDOOR VRF DUCTED AC UNIT
	INDOOR VRF WALL AC UNIT
	INDOOR VRF CASSETTE AC UNIT
	VRF OUTDOOR UNIT
	OUTDOOR DUCTED SPLIT AC UNIT
	FLEXIBLE DUCT
	VOLUME CONTROL DAMPER
	INLINE CENTRIFUGAL FAN
	WINDOW PROPELLER FAN WITH AUTOMATIC SHUTTER
	THERMOSTAT
	ACCESS PANEL (600X600) mm
	DOOR GRILLE
	VOLUME DAMPER
	AIR HANDLING UNIT
	FLEXIBLE CONNECTOR
	PRESSURE GAUGE
	FLOW SWITCH
	BUTTERFLY VALVE
	THERMOMETER
	MOTORIZED VALVE
	DOUBLE REGULATING VALVE
	STR

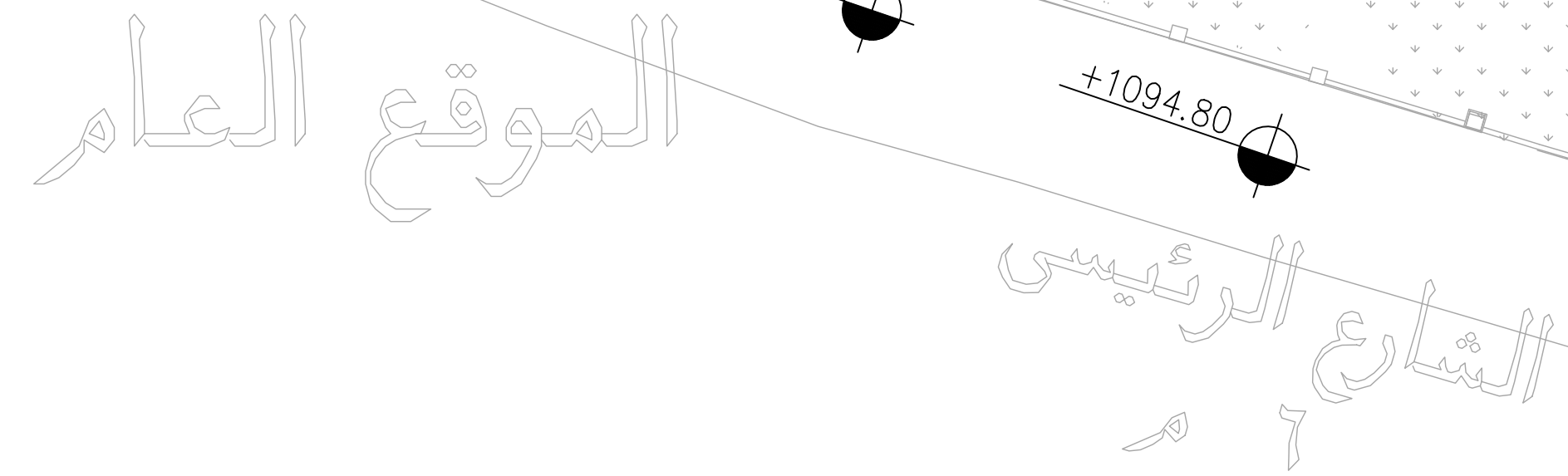
FIRE PROTECTION SYMBOLS	
Symbol	Description
F.H.C. 	HOSEREEL CABINET (WITH FIRE EXTINGUISHER)
F.P. 	FIRE FIGHTING PUMP
P.R.V. 	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
	PRESSURE GAUGE
OS&Y 	OUTSIDE & YOKE GATE VALVE
	INSPECTOR'S TEST CONNECTION
	CAP & FLUSHING CONNECTION
	LANDING VALVE
F.R.I. 	FIRE STOPPING OF INSULATED PIPE PENETRATIONS.
	ZONE CONTROL VALVE
F.H. 	FIRE HYDRANT, TWO HOSE OUTLETS AND PUMPER CONNECTION
	FIRE HYDRANT CABINET
S.C. 	FIRE DEPARTMENT INLET CONNECTION (SIAMESE CONNECTION)
A.C.V. 	ALARM CHECK VALVE
C.V. 	CHECK VALVE (WET)
	SPRINKLER HEAD – UPRIGHT (STANDARD RESPONSE)
	SPRINKLER HEAD – UPRIGHT & PENDENT
LINE DEFINITIONS	
	INDICATES MAIN LINE
	INDICATES BRANCHES
	INDICATES FIRE HOSE LINES
ABBREVIATION	
Diø	DIAMETER
D/D	DROP DOWN
F/A	FROM ABOVE
F/B	FROM BELOW
JP	JOCKEY PUMP
T/A	TO ABOVE
BS	BELOW SLAB



NOTES:

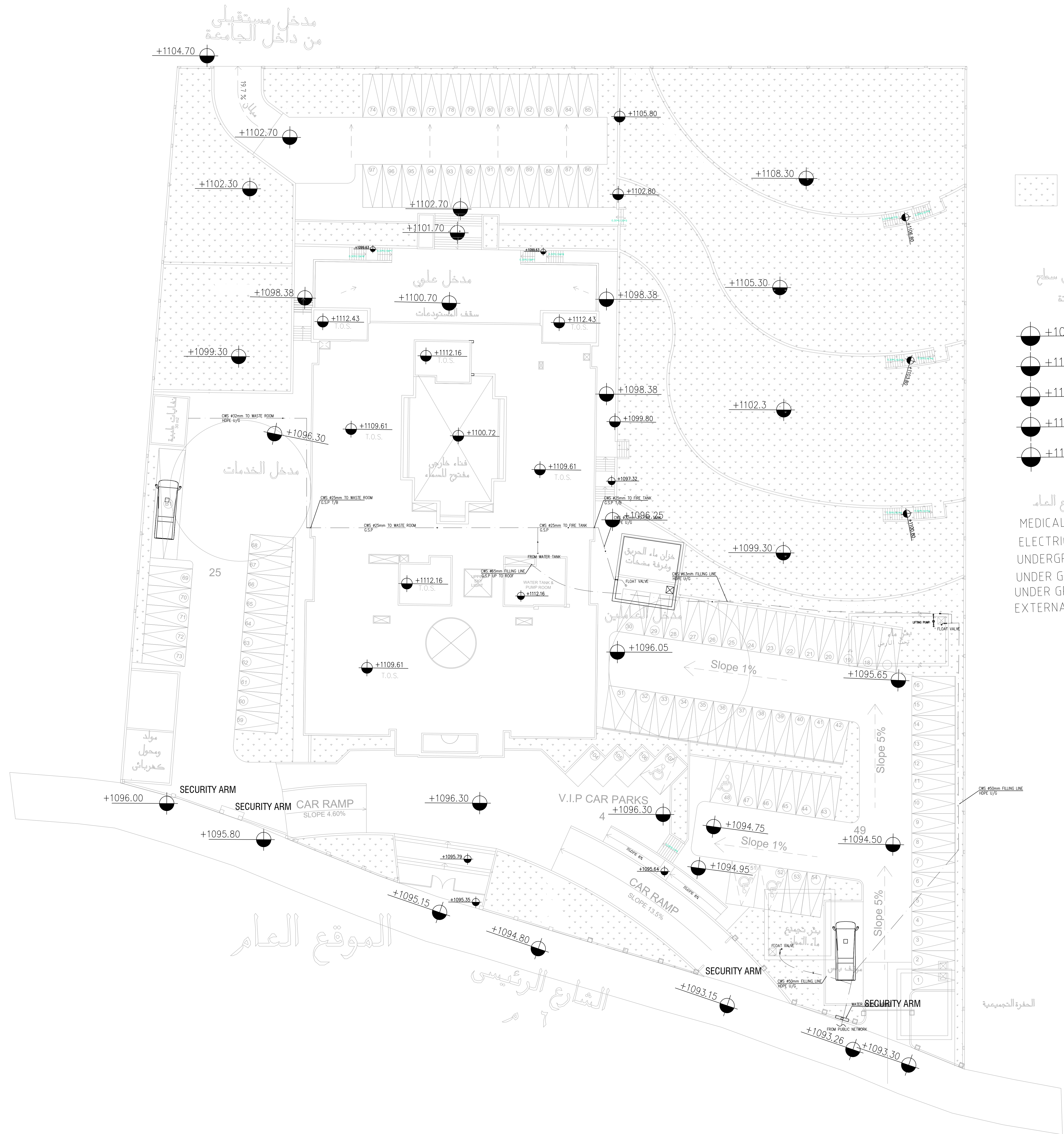
PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
REV.	MARK	DATE	MADE BY
REMARKS			
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	MECHANICAL LEGENDS		
DRAWN BY : MECH.T		SCALE: N.T.S	
DESIGNED BY : A.Q		DATE : DEC.-2023	
CHECKED BY : F.N		PROJECT No.	DRAWING No.
APPROVED BY: F.N			M-000

مدخل مستقبلي
من داخل الجامعة



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	SITE PLAN: DRAINAGE SYSTEM LAYOUT		
DRAWN BY : MECH.T		SCALE: 1:200	
DESIGNED BY : A.Q		DATE : DEC. - 2023	
CHECKED BY : F.N		PROJECT No.	DRAWING No.
APPROVED BY: F.N		M-001	



مناطق خضراء
التفاصيل في مخطط LANDSCAPE

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

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

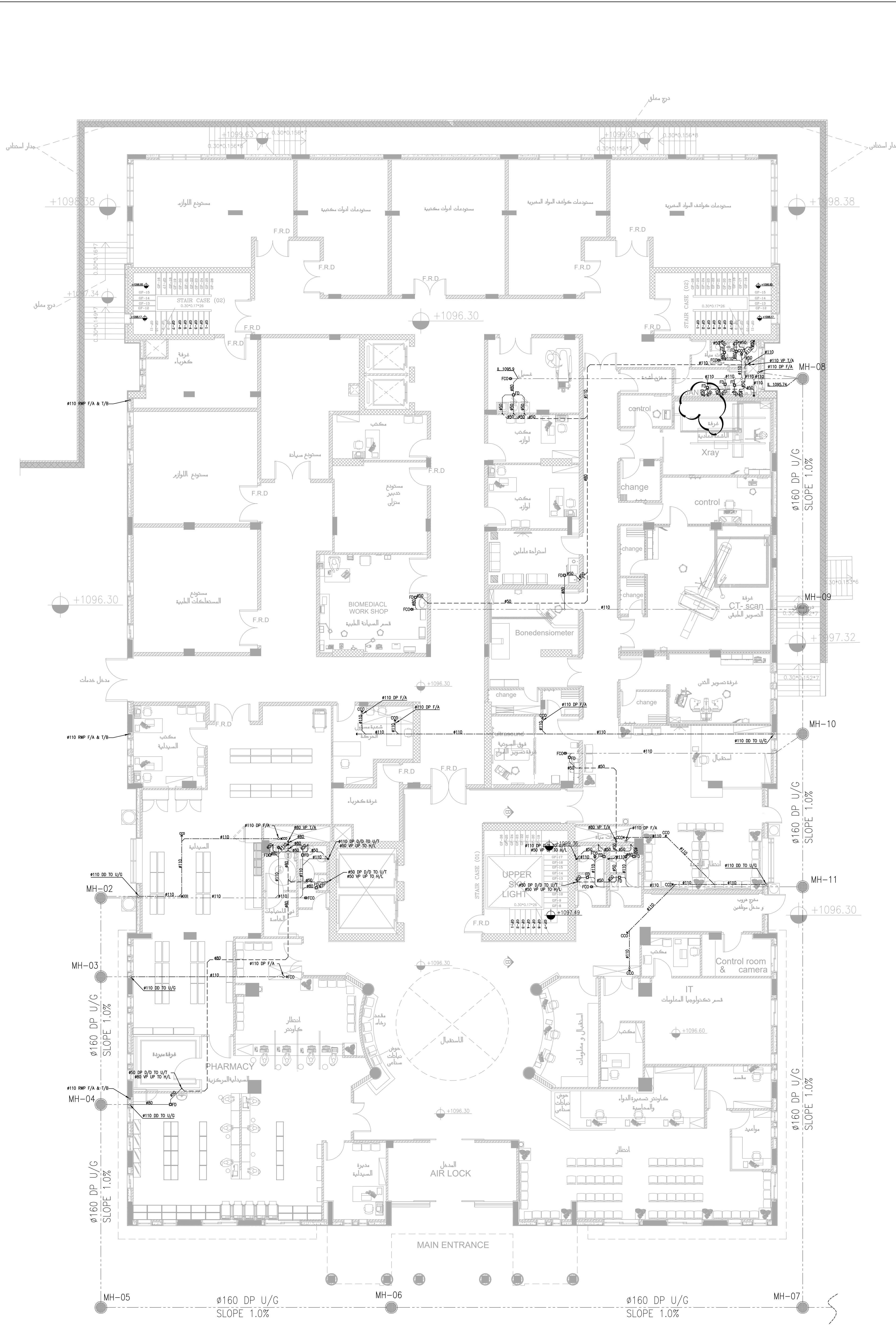
كما ويتوفر في المشروع في الموقع الماء
MEDICAL WASTE ROOM
ELECTRIC GENERATOR
UNDERGROUND WATER TANK
UNDER GROUND SEPTIC COLLECTING TANK
UNDER GROUND RAIN WATER TANK
EXTERNAL FIRE ROOM & FIRE TANK

NOTES:

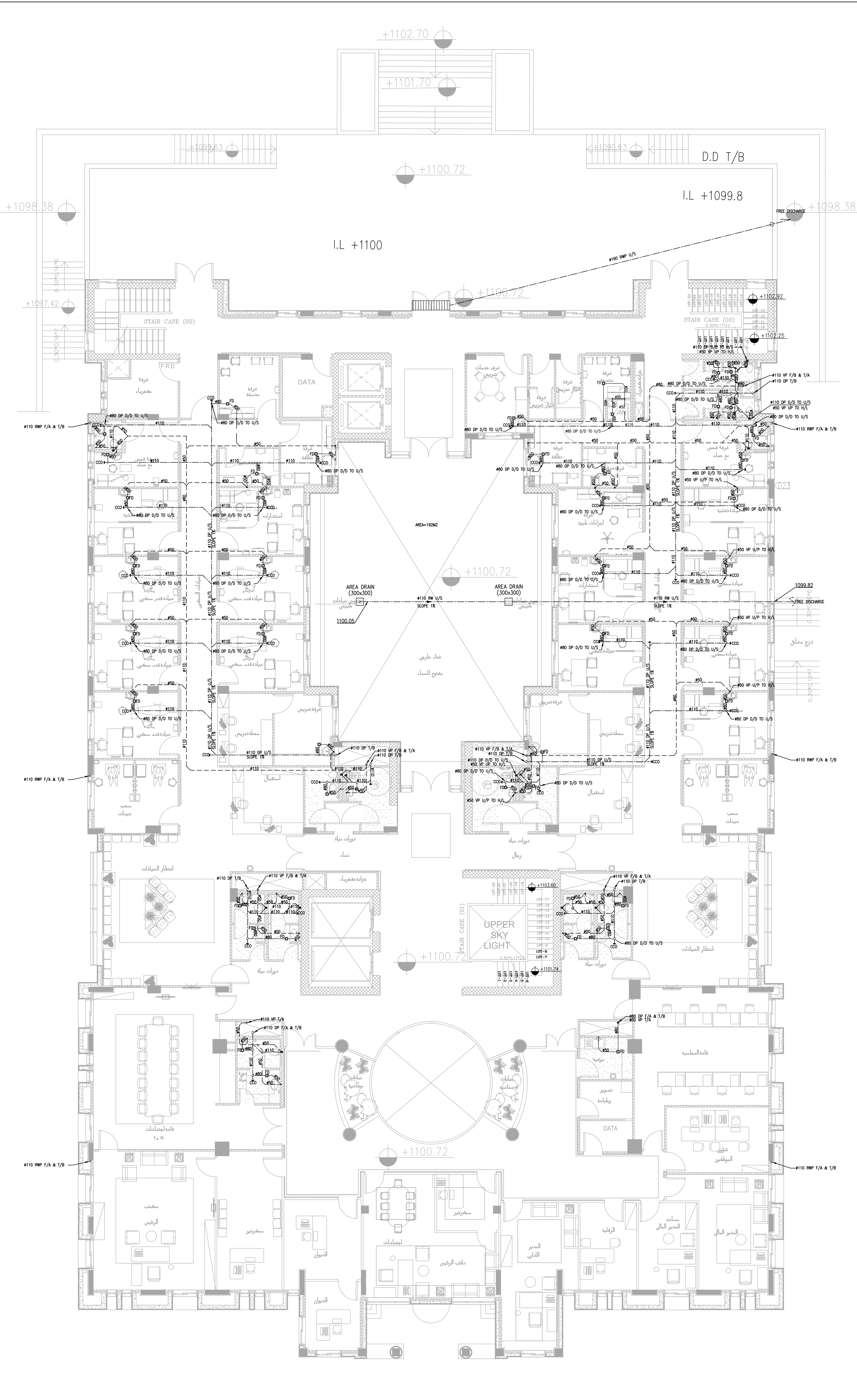
PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY		REMARKS	
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS				
MP CE	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo				
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY				
DRG. TITLE	SITE PLAN: WATER SYSTEM LAYOUT				
DRAWN BY : MECH.T				SCALE: 1:200	
DESIGNED BY : A.Q				DATE : DEC.-2023	
CHECKED BY : F.N				PROJECT No.	DRAWING No. M-002
APPROVED BY: F.N					



PLOT NO :		1	
DISTRICT :		KARAK	
BASIN :		14 TALAT EAWAHAD	
V. 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		
RG. TITLE	SITE PLAN: FIRE FIGHTING SYSTEM LAYOUT		
DRAWN BY : MECH.T		SCALE: 1:200	
DESIGNED BY : A.Q		DATE : DEC.-2023	
CHECKED BY : F.N		PROJECT NO.	DRAWING NO. M-004
APPROVED BY: F.N			



الطابق الارضي

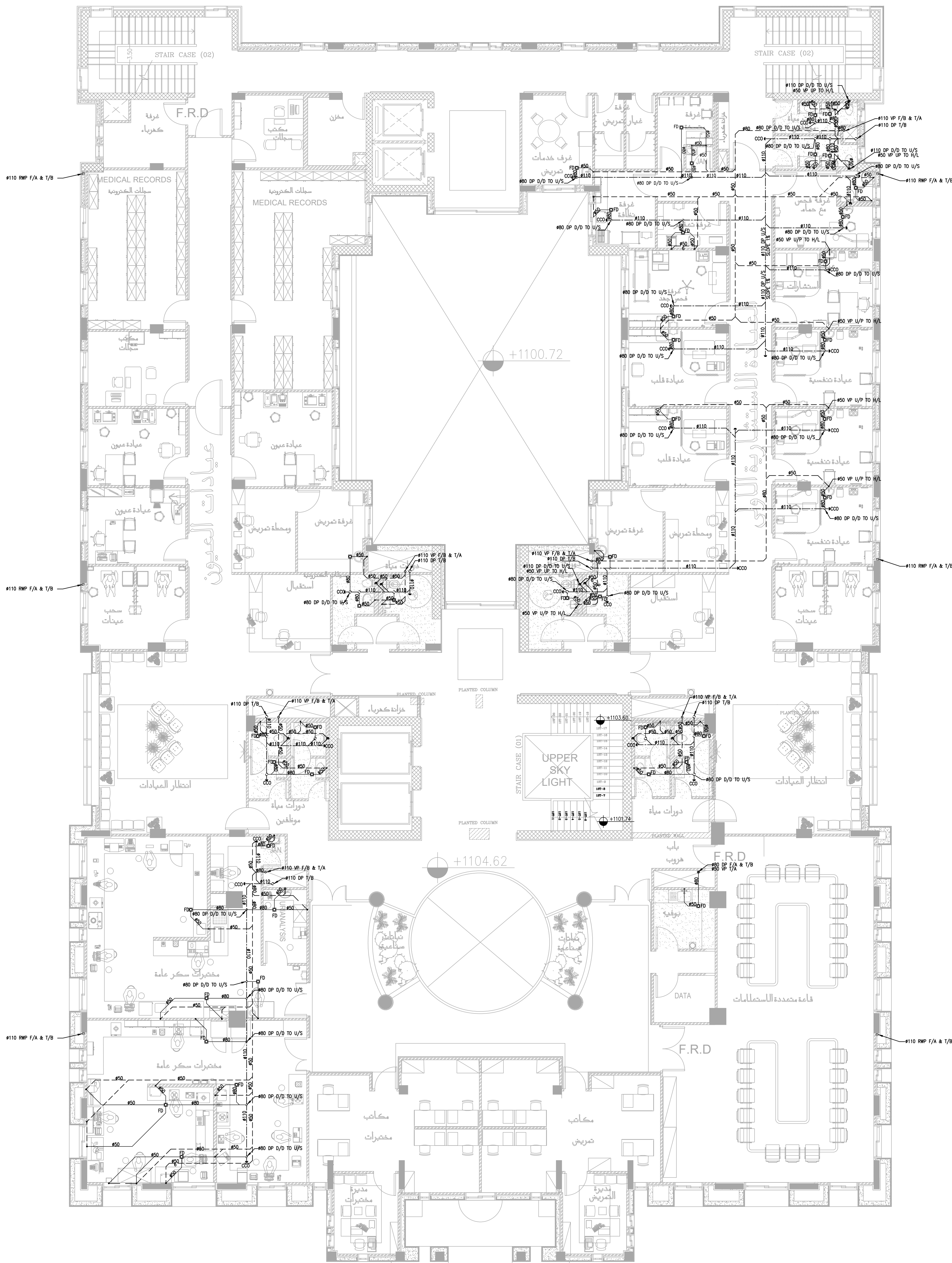


الطابق الاول

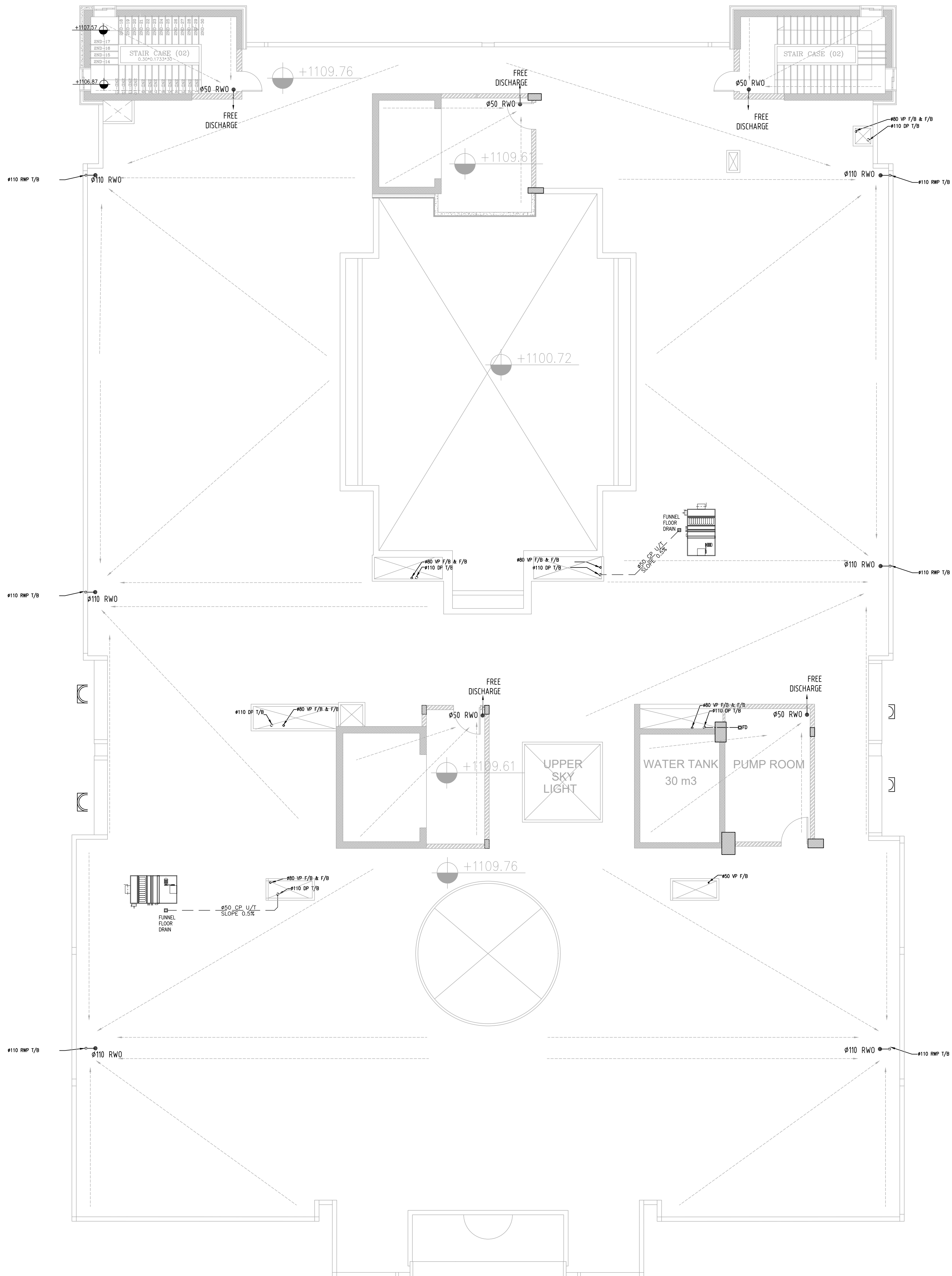
NOTES:

PLUMBING FIXTURE	CONNECT TO	PIPE SIZE (MM)
WC	TO MAIN PIPE	110
WB	TO FD	50
SHOWER	TO FD	50
SINK	TO FD	50
FD	TO MAIN PIPE	80
J.SINK	TO FD	50

PLOT NO	:	1		
DISTRICT	:	KARAK		
BASIN	:	14 TALAT EAWAHAD		
REV	MARK	DATE	MADE BY	REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
MPC	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 AND FIRST FLOOR: DRAINAGE SYSTEM LAYOUT			
DRAWN BY		: MECH.T	SCALE: 1:100	
DESIGNED BY		: A.Q	DATE : DEC.-2023	
CHECKED BY		: F.N	PROJECT No.	DRAWING No.
APPROVED BY: F.N				M-100



الطابق الثاني



طابق الروف

NOTES:

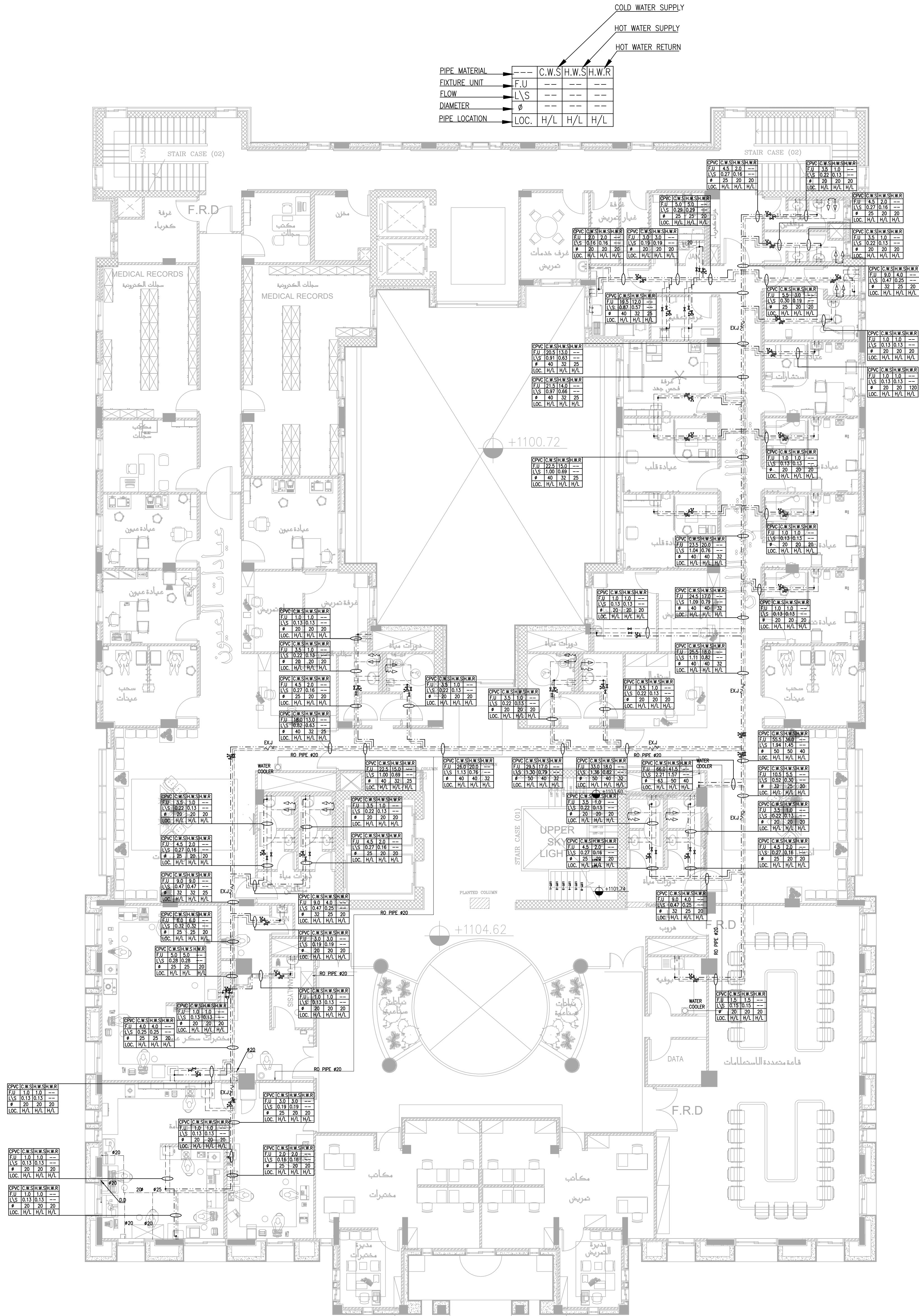
PIPE SIZE CONNECTING TO FIXTURE		
PLUMBING FIXTURE	CONNECT TO	PIPE SIZE (MM)
WC	TO MAIN PIPE	110
WB	TO FD	50
SHOWER	TO FD	50
SINK	TO FD	50
FD	TO MAIN PIPE	80
J.SINK	TO FD	50

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	SECOND AND ROOF FLOOR: DRAINAGE SYSTEM LAYOUT		
DRAWN BY : MECH.T		SCALE: 1:100	
DESIGNED BY : A.Q		DATE : DEC.-2023	
CHECKED BY: F.N		PROJECT No.	DRAWING No.
APPROVED BY: F.N			M-101

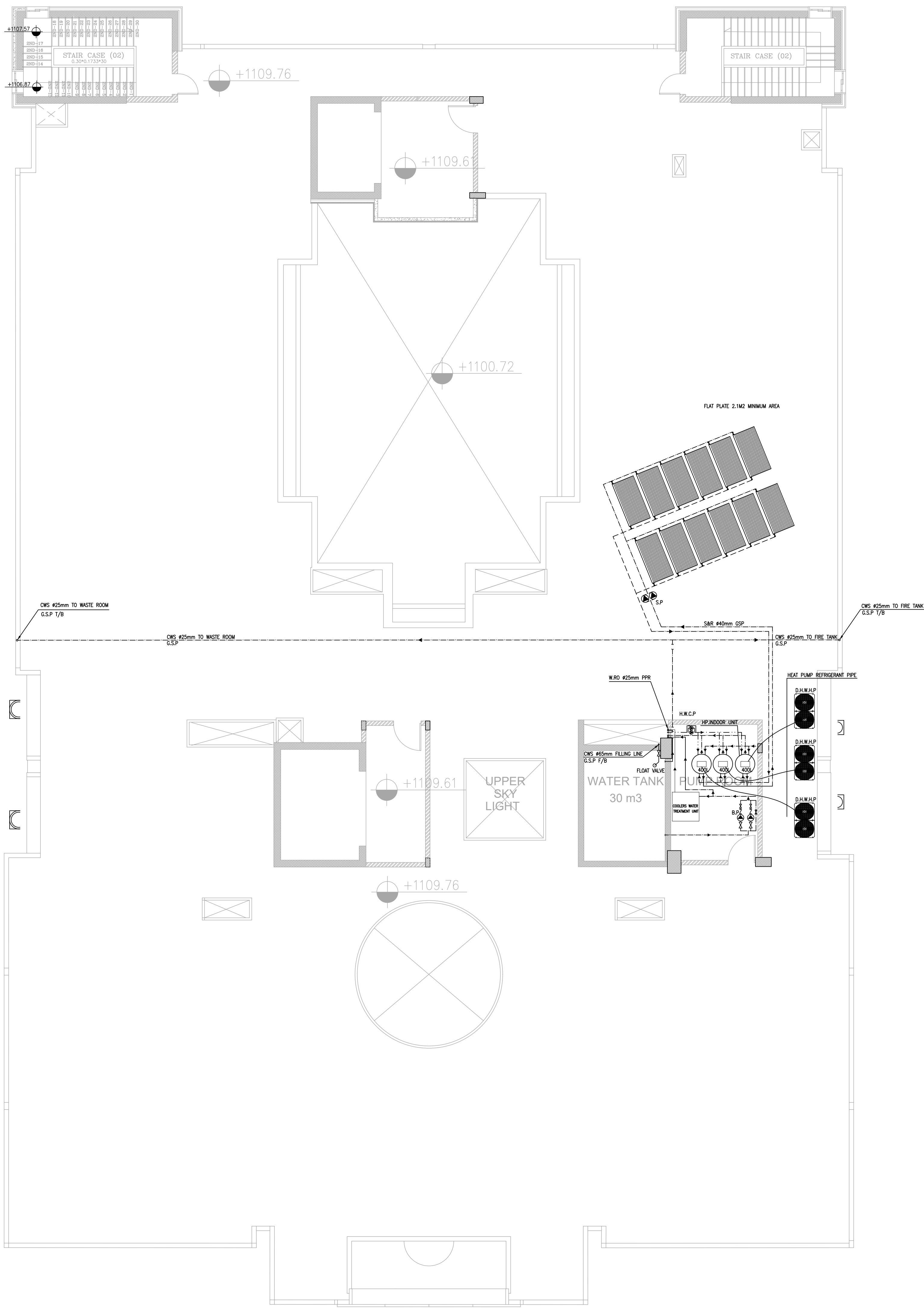


NOTES:

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. TITLE		GROUND AND FIRST FLOOR: WATER SYSTEM LAYOUT		
DRAWN BY : MECH.T			SCALE: 1:100	
DESIGNED BY : A.Q			DATE : DEC.-2023	
CHECKED BY : F.N			PROJECT No.	DRAWING No.
APPROVED BY: F.N				M-200



الطابق الثاني

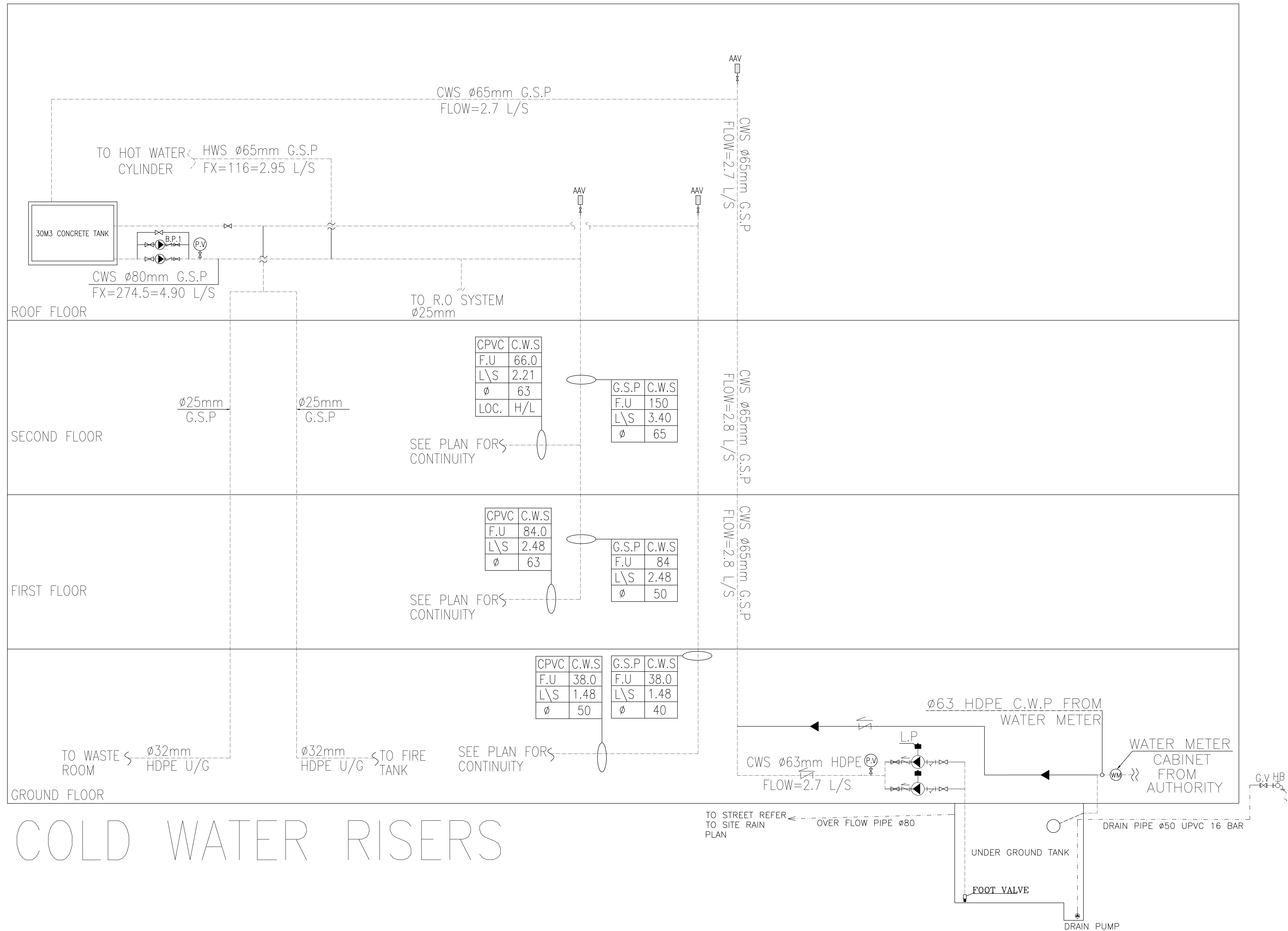


طابق الروف



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			
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		SECOND AND ROOF FLOOR: WATER SYSTEM LAYOUT	
DRAWN BY : MECH.T		SCALE: 1:100	
DESIGNED BY : A.Q		DATE : DEC.-2023	
CHECKED BY : F.N		PROJECT No.	DRAWING No.
APPROVED BY: F.N		M-201	



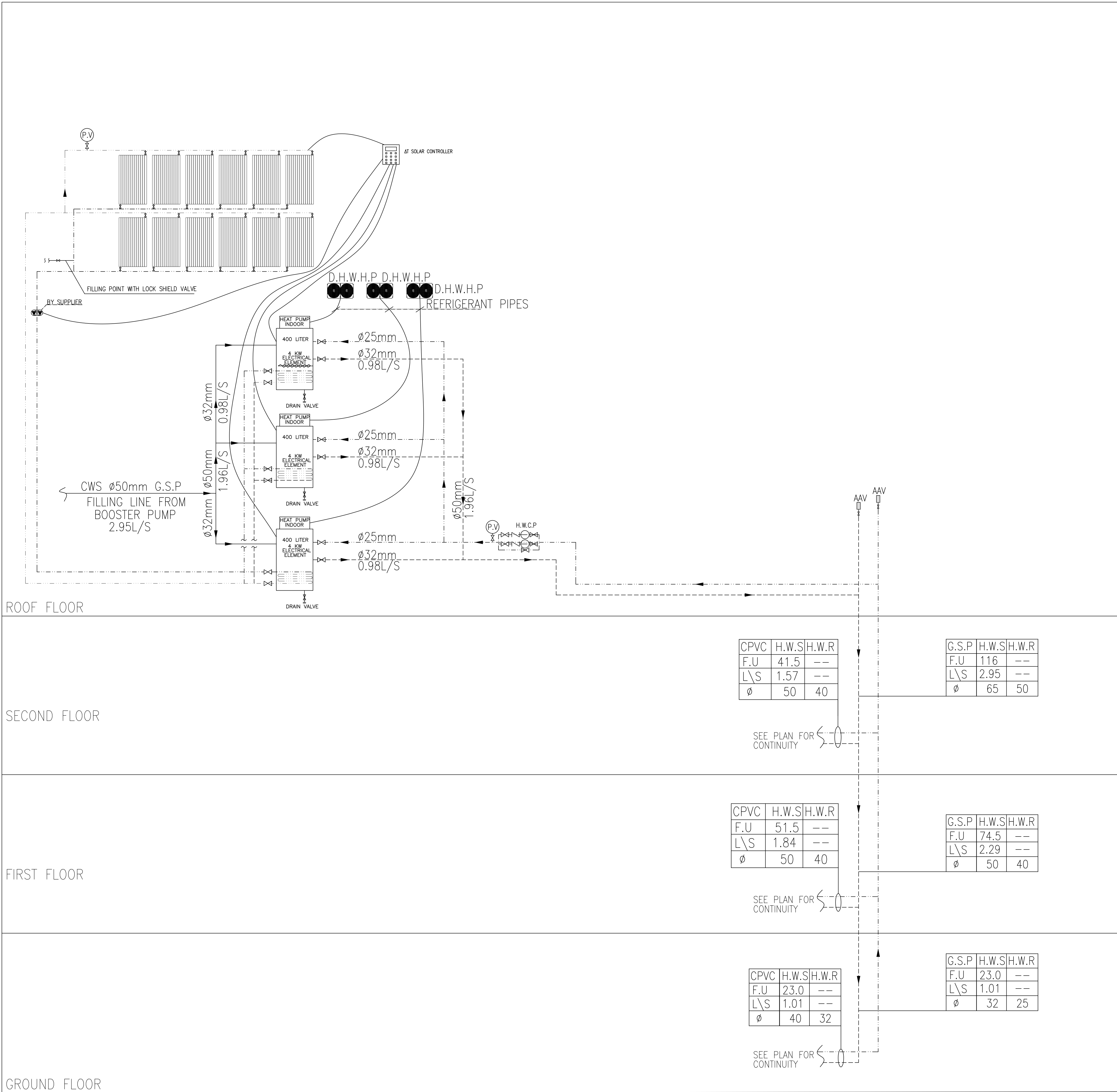
COLD WATER RISERS

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	COLD WATER SYSTEM RISER DIAGRAM		
DRAWN BY : MECH.T		SCALE: N.T.S	
DESIGNED BY: A.Q		DATE : DEC.-2023	
CHECKED BY: F.N		PROJECT No.	DRAWING No. M-202
APPROVED BY: F.N			

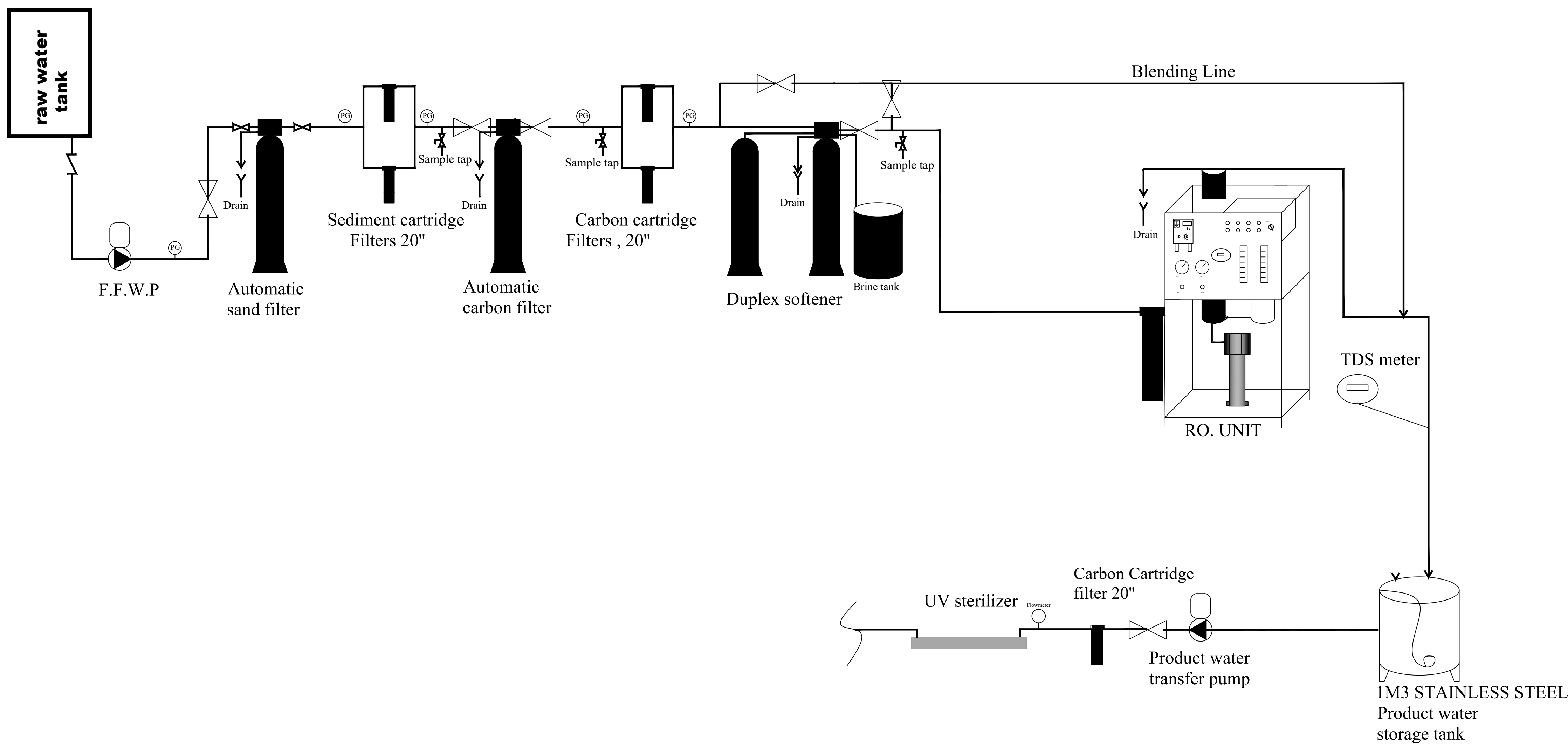


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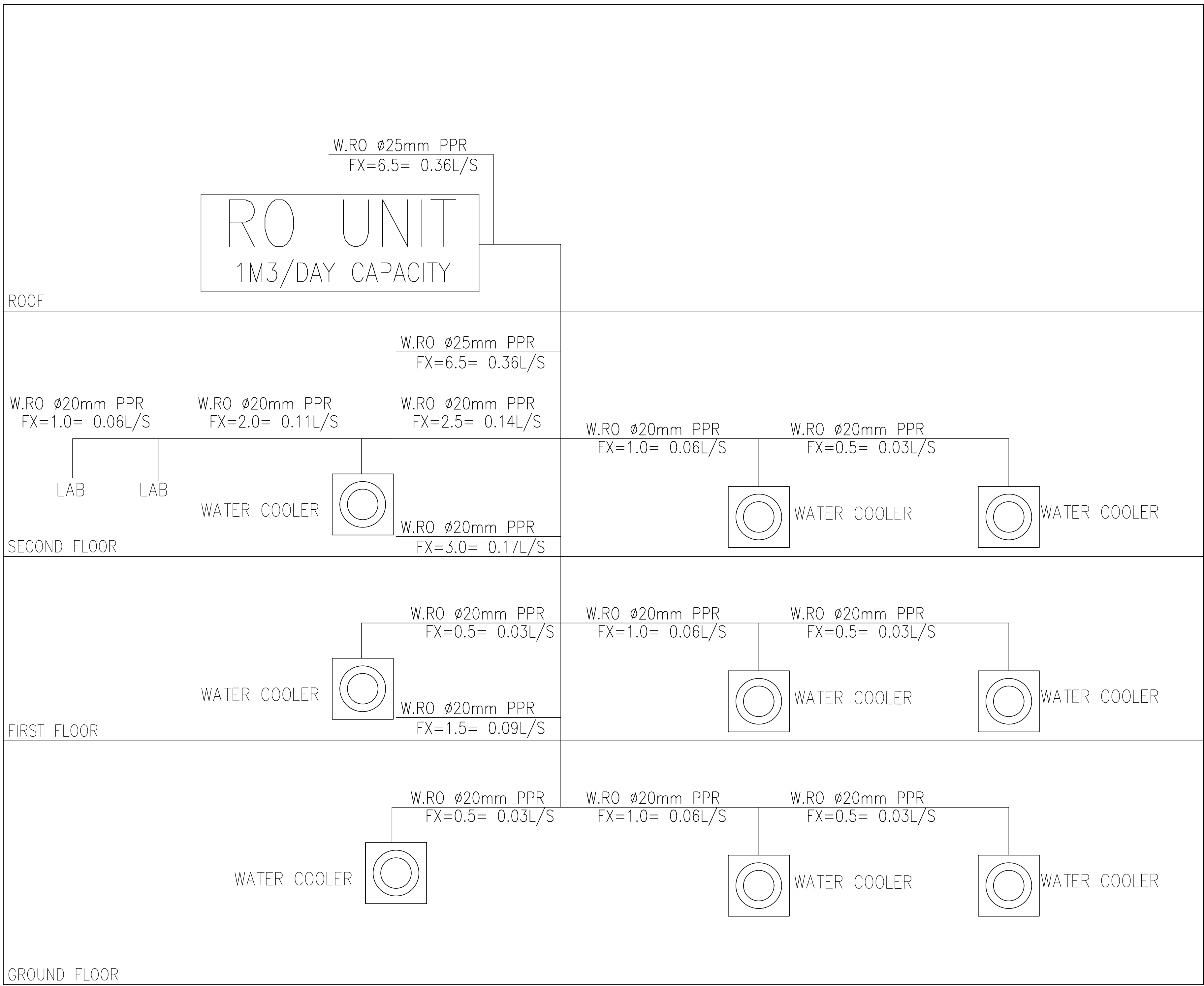


HOT WATER SYSTEM

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		HOT WATER SYSTEM RISER DIAGRAM	
DRAWN BY : MECH.T		SCALE: N.T.S	
DESIGNED BY : A.Q		DATE : DEC.-2023	
CHECKED BY : F.N		PROJECT No.	DRAWING No.
APPROVED BY: F.N		M-203	



FOUNTAIN WATER TREATMENT UNIT
DETAILS



RO WATER SYSTEM



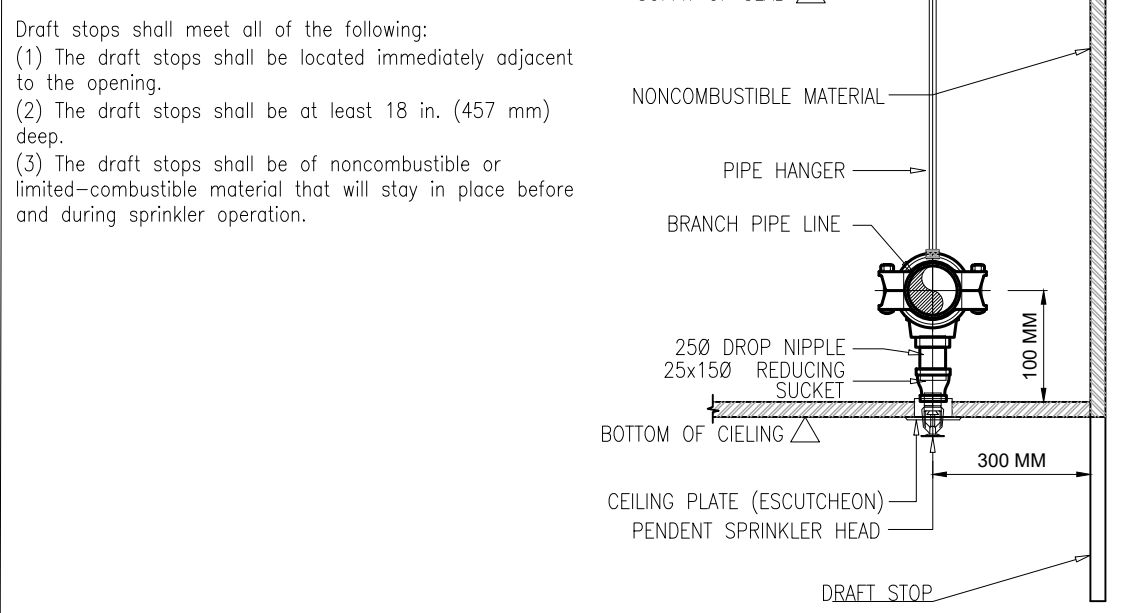
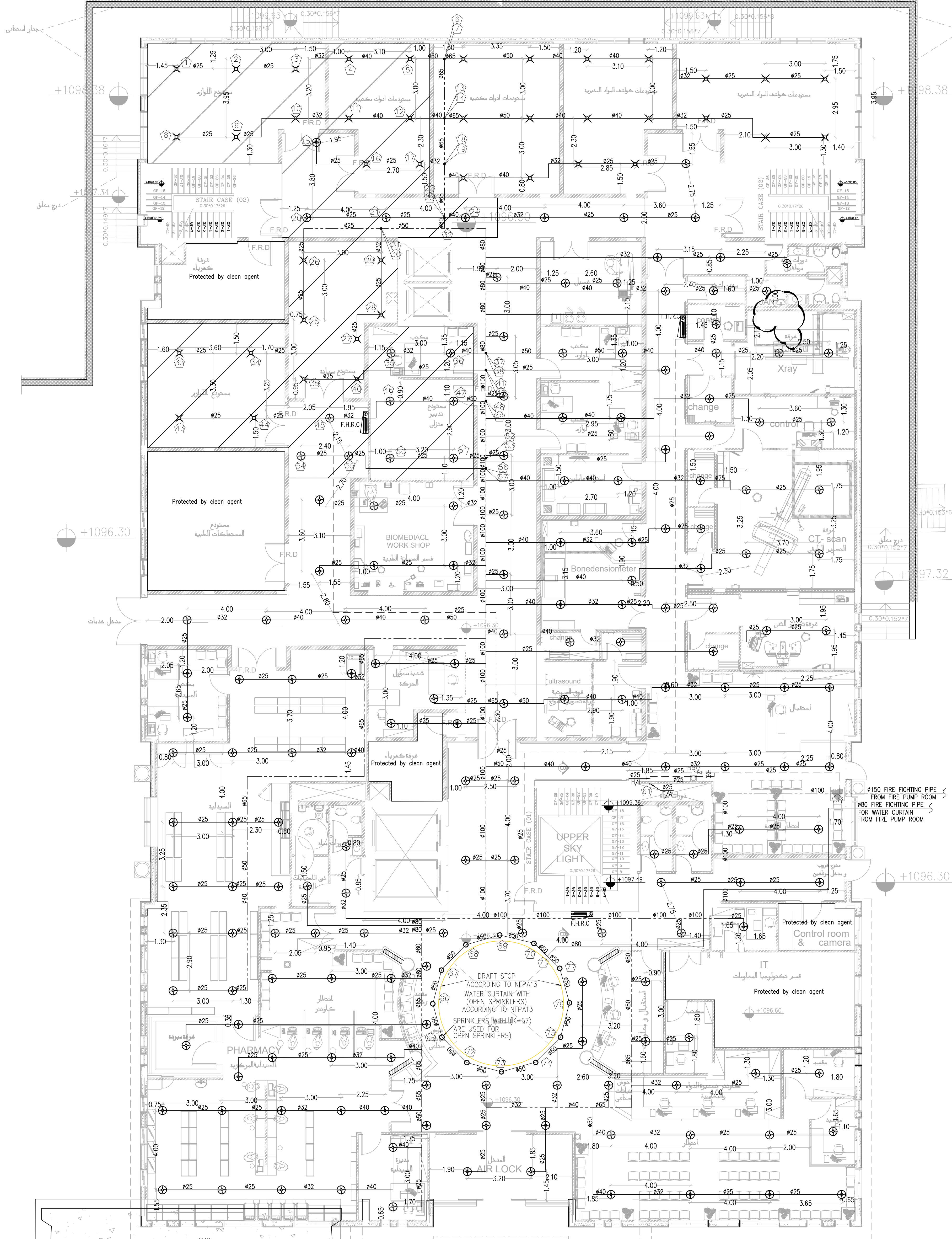
NOTES:

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		RO WATER SYSTEM RISER DIAGRAM		
DRAWN BY : MECH.T			SCALE: N.T.S	
DESIGNED BY : A.Q			DATE : DEC.-2023	
CHECKED BY : F.N			PROJECT No.	DRAWING No.
APPROVED BY: F.N			M-204	

7.5 L/MIN. M2
261 M2
NO. OF SPRINKLER IN DESIGN
AREA= 36

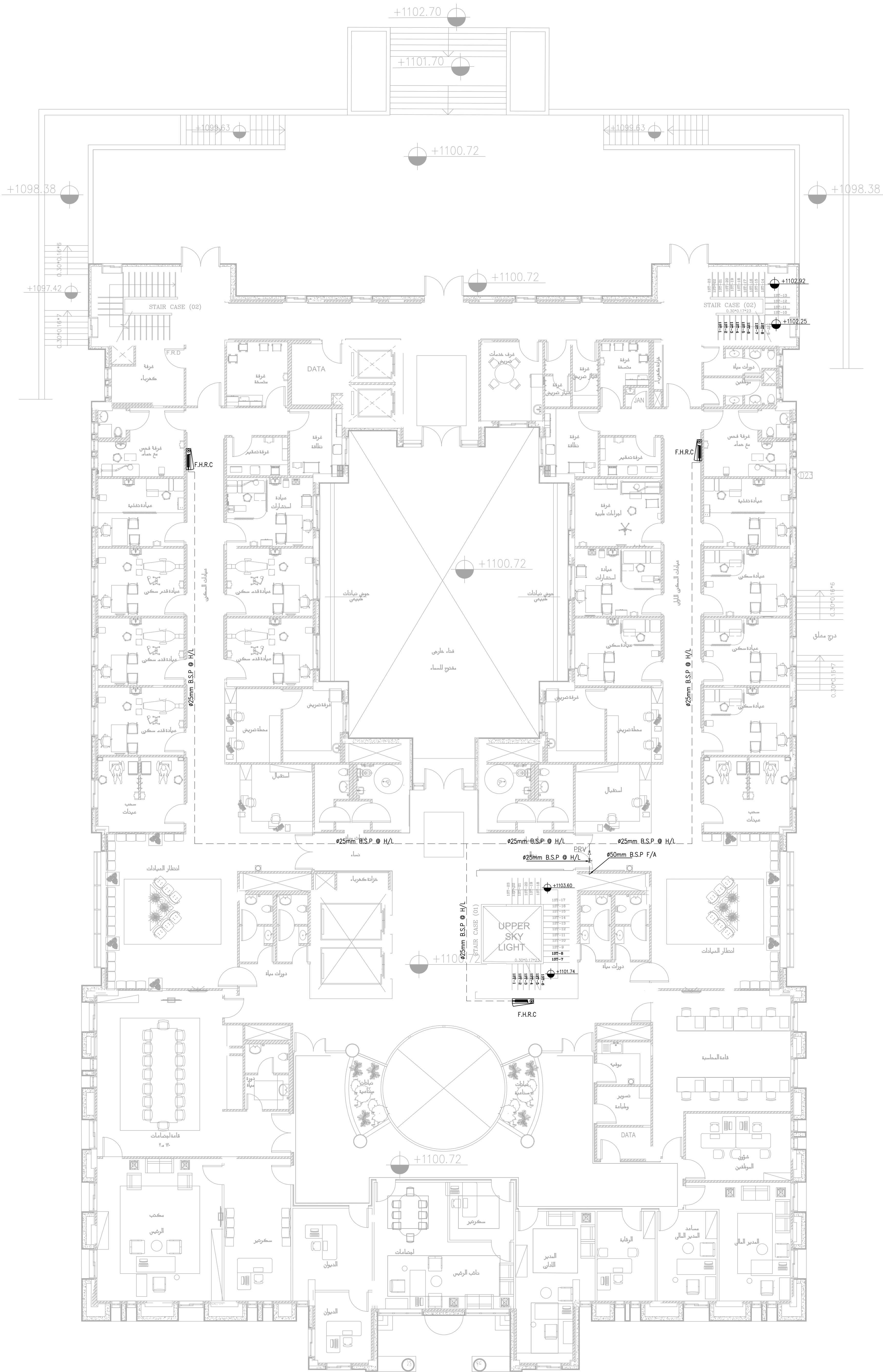
- ✕ upright sprinkler
- ⊕ pendant sprinkler
- open sprinkler deluge system
- false ceiling with no drop more than 60 cm

درج سقف



DRAFT STOP & SPRINKLER INSTALLATION DETAIL
SCALE: N.T.S.

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.jp

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

DRG. TITLE GROUND AND FIRST FLOOR:
FIRE FIGHTING SYSTEM LAYOUT

DRAWN BY : MECH.T SCALE: 1:100

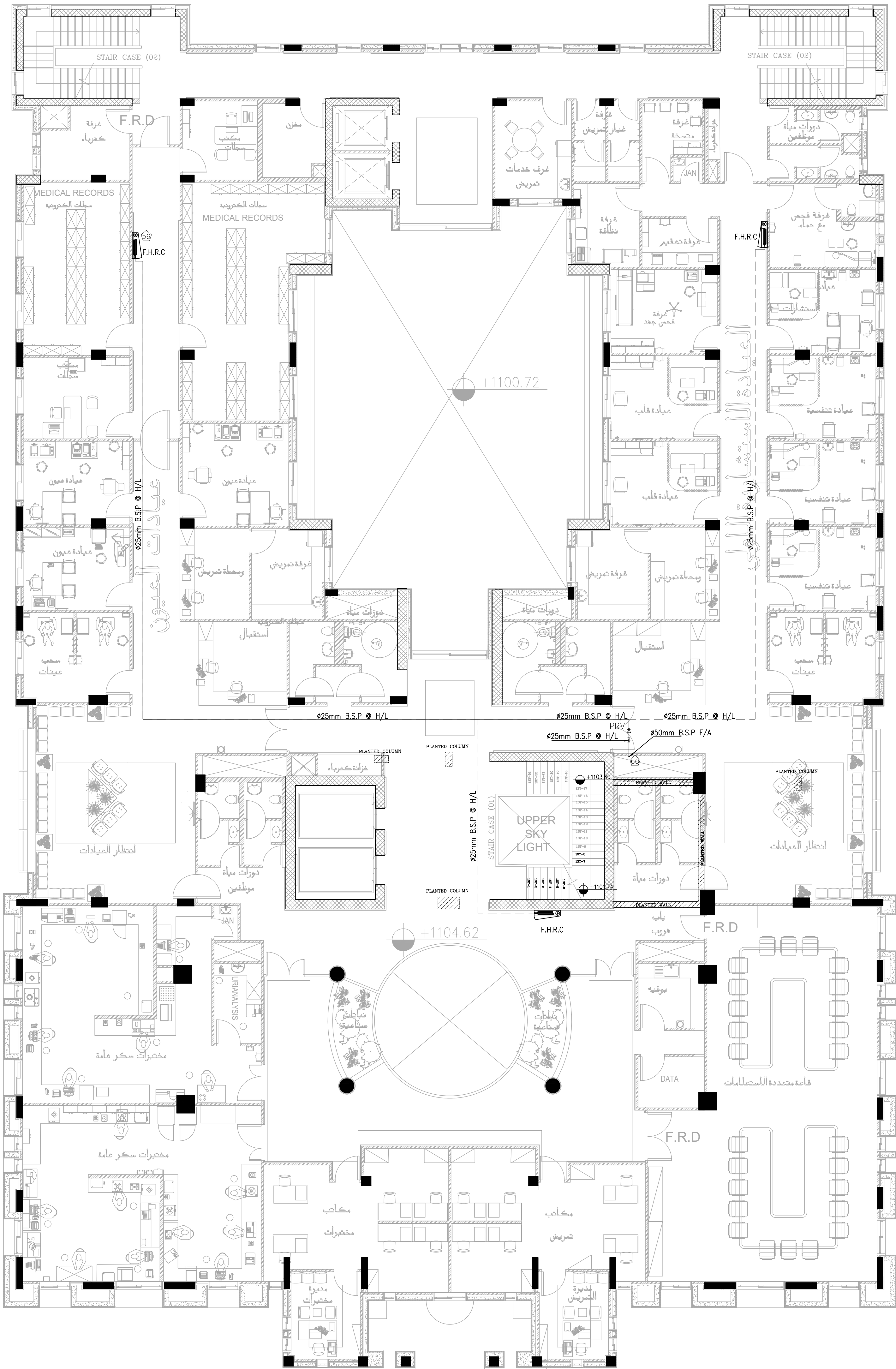
DESIGNED BY : A.Q DATE : DEC.-2023

CHECKED BY : F.N PROJECT No. DRAWING No.

APPROVED BY: F.N M-300



NOTES:



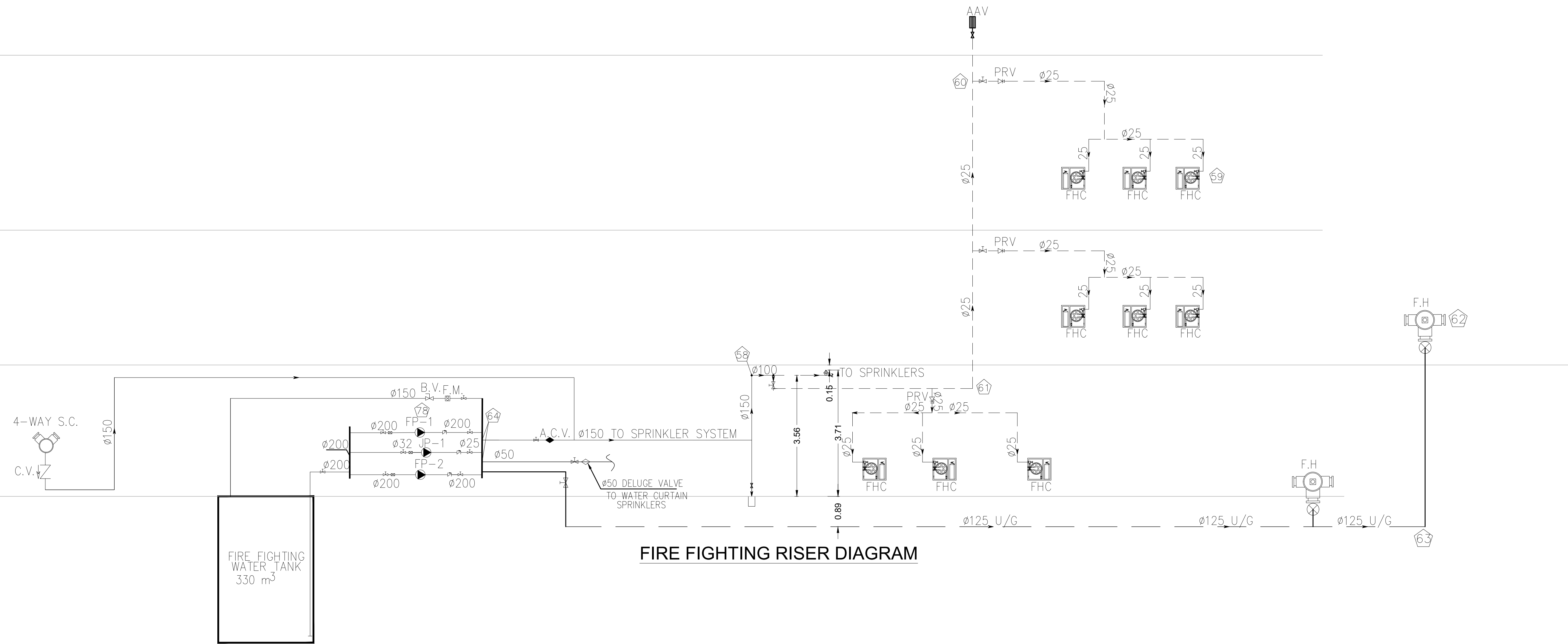
الطابق الثاني

PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
REV. MARK	DATE	MADE BY	REMARKS
CLIENT THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
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 FIGHTING SYSTEM LAYOUT			
DRAWN BY : MECH.T		SCALE : 1:100	
DESIGNED BY : A.Q		DATE : DEC.-2023	
CHECKED BY : F.N		PROJECT No.	DRAWING No.
APPROVED BY: F.N			M-301



PUMP REF. NO.		FLOW GPM	HEAD BAR	POWER SUPPLY	MOTOR KW	QTY.	TYPE
MAIN.	FP-1	1500	7.0	420/3/50	150	1- DUTY	VERTICAL TURBINE
STAND-BY.	FP-2	1500	7.0	420/3/50	150	1-STANDBY (ELECTRICAL)	VERTICAL TURBINE
JOCKEY.	J.P.	16	7.5	420/3/50	4	1 NO.	VERTICAL TURBINE

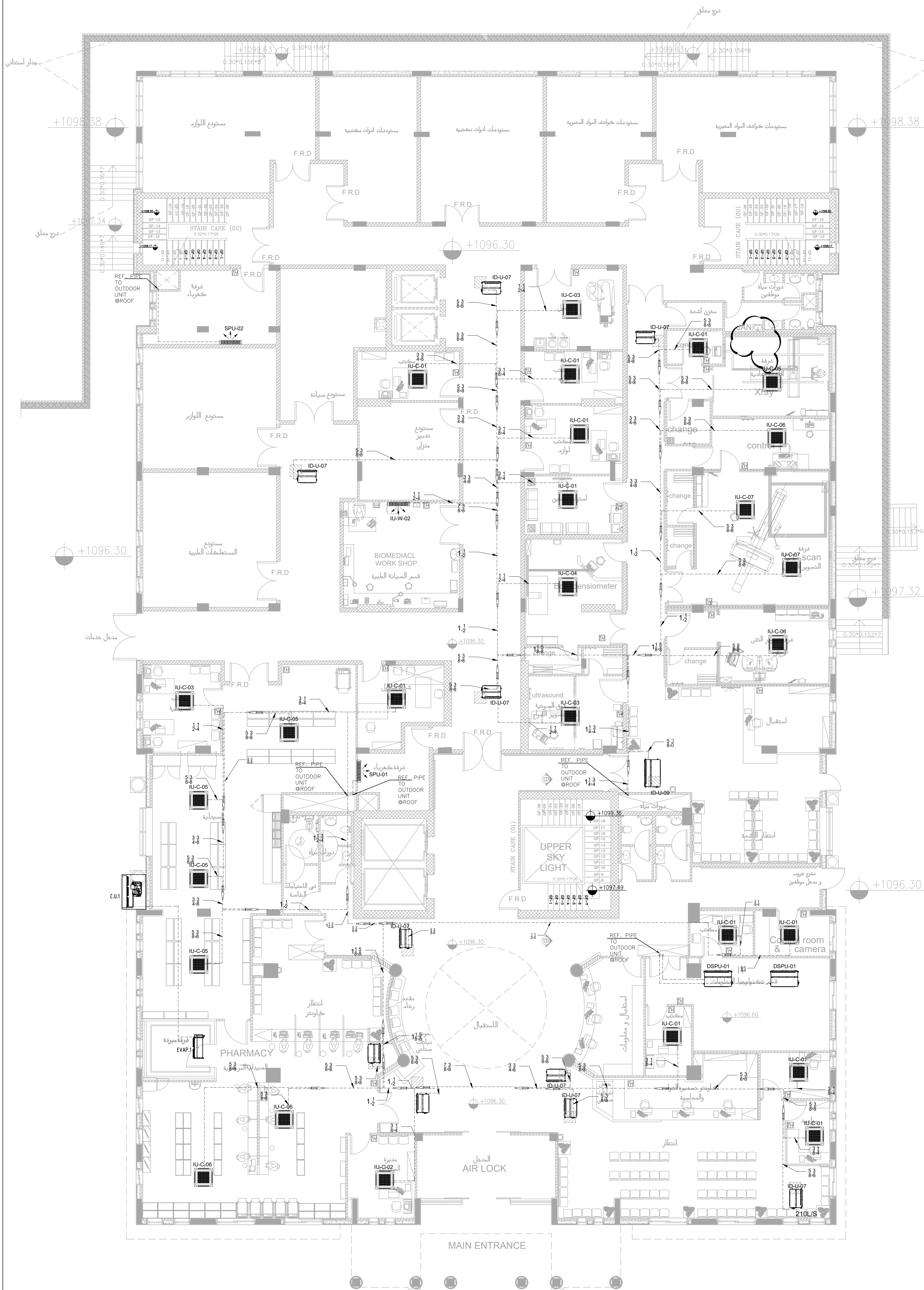
FIRE FIGHTING RISER DIAGRAM



RISER

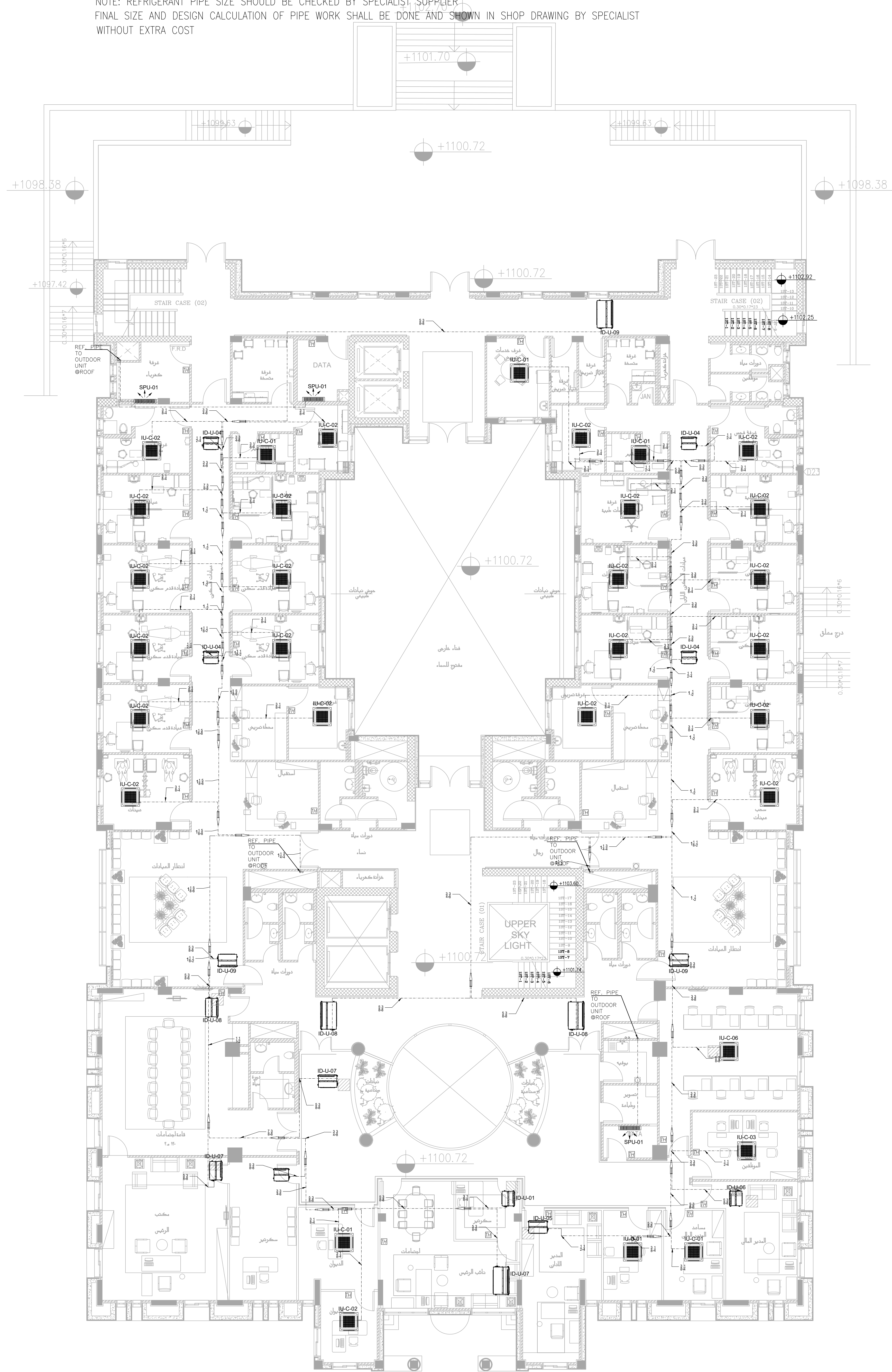
PLOT NO	:	1
DISTRICT	:	KARAK
BASIN	:	14 TALAT EAWAHAD
REV. MARK	DATE	MADE BY REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS	
M P	MADI & PARTNERS CONSULTING ENGINEERS	
C E	TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo	
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY	
DRG. TITLE	FIRE FIGHTING SYSTEM RISER	
DRAWN BY	: MECH.T	SCALE: N.T.S
DESIGNED BY	: A.Q	DATE : DEC. - 2023
CHECKED BY	: F.N	PROJECT No.
APPROVED BY	: F.N	DRAWING No. M-302

NOTE: REFRIGERANT PIPE SIZE SHOULD BE CHECKED BY SPECIALIST SUPPLIER.
FINAL SIZE AND DESIGN CALCULATION OF PIPE WORK SHALL BE DONE AND SHOWN IN SHOP DRAWING BY SPECIALIST
WITHOUT EXTRA COST



الطابق الارضى

NOTE: REFRIGERANT PIPE SIZE SHOULD BE CHECKED BY SPECIALIST SUPPLIER.
FINAL SIZE AND DESIGN CALCULATION OF PIPE WORK SHALL BE DONE AND SHOWN IN SHOP DRAWING BY SPECIALIST
WITHOUT EXTRA COST



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 : mpec@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

DRG. GROUND AND FIRST FLOOR:
TITLE HVAC -PIPING SYSTEM LAYOUT

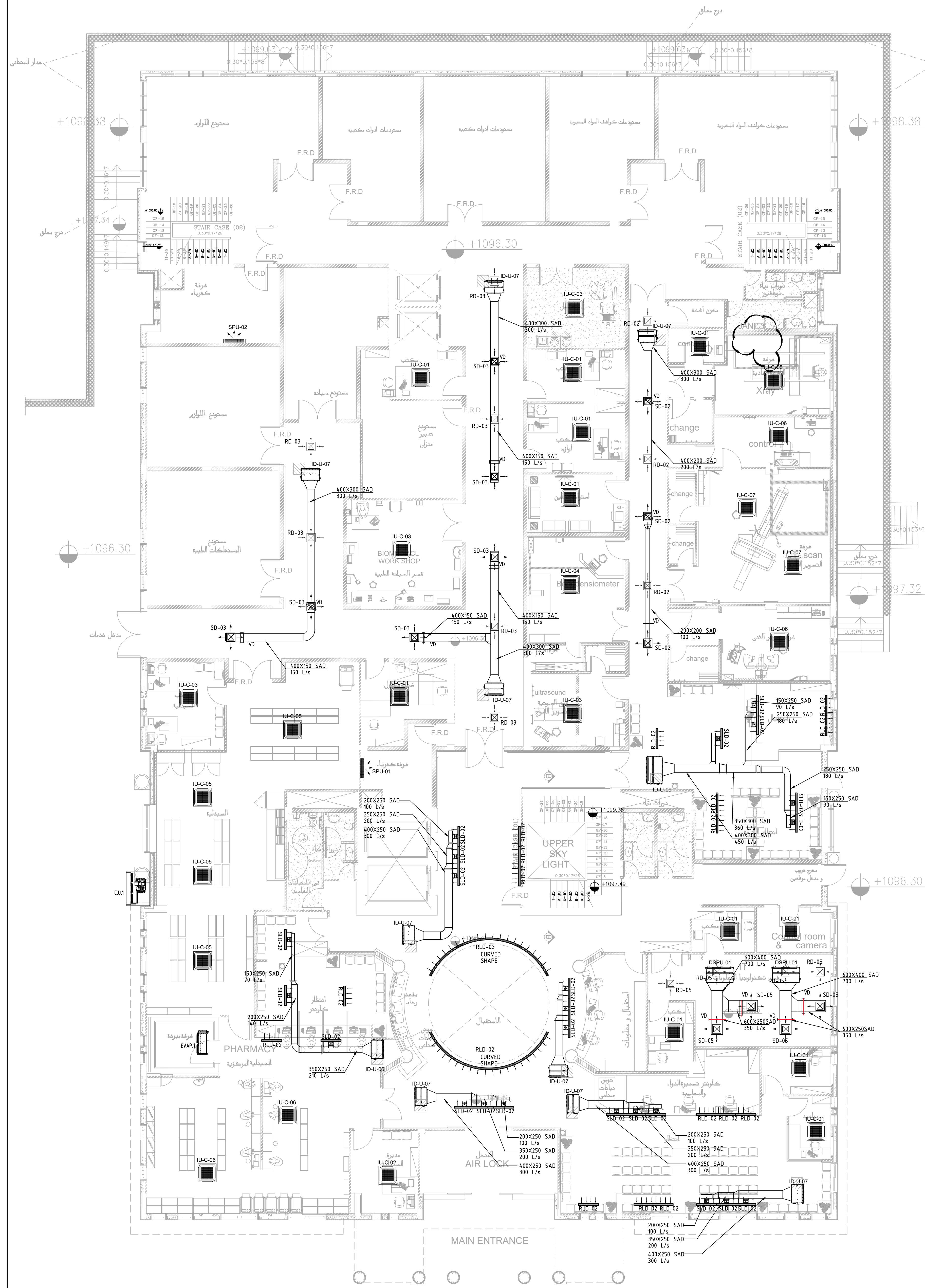
DRAWN BY : MECH.T SCALE: 1:100
DESIGNED BY : A.Q DATE :DEC.-2023
CHECKED BY : F.N PROJECT No. DRAWING No.
APPROVED BY: F.N M-400

This detailed mechanical floor plan for the 1st floor illustrates the layout of various rooms and the associated HVAC and mechanical systems. The plan includes the following elements:

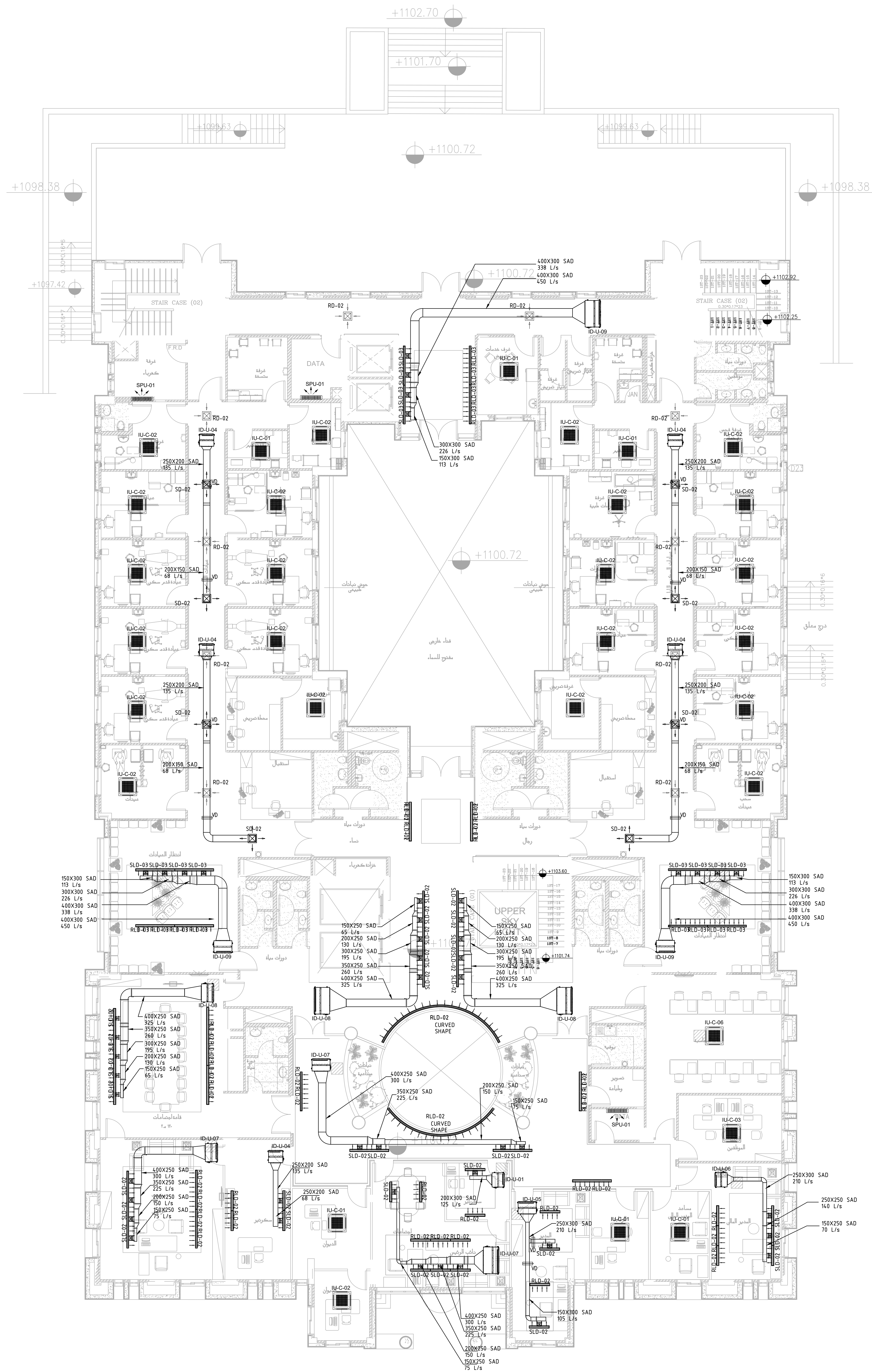
- Rooms and Spaces:** STAIR CASE (00), ELEC. ROOM, BASEMENT FLOOR, UPPER SKY LIGHT, WATER TANK (30 m³), PUMP ROOM, and DATA ROOM 1ST & 2ND FLOORS.
- Elevations:** Key elevations are marked throughout the plan, including +1109.57, +1109.47, +1109.76, +1109.6, +1100.72, +1109.61, and +1109.76.
- HVAC Systems:**
 - VRF Systems:** VRF-ODU-1ST-LEFT, VRF-ODU-2ND-LEFT, VRF-ODU-GR-DOWN, VRF-ODU-1ST-RIGHT, VRF-ODU-2ND-RIGHT, and VRF-ODU-GR-UP.
 - SPU Units:** SPU-01 units are located in the ELEC. ROOM, BASEMENT FLOOR, and DATA ROOM 1ST & 2ND FLOORS.
 - AHU Units:** AHU-LAB and AHU-01 are shown, along with their respective VRF-ODU-AHU-LAB and VRF-ODU-AHU-01.
- Mechanical Equipment:** A large circular unit, likely a fan or pump, is located in the center of the plan. Other equipment includes a VRF-ODU-FAHU-01 and a VRF-ODU-AHU-LAB.
- Pipes and Connections:** Various pipes are indicated, including REF. PIPE TO/FORM VRF, REF. PIPE TO/FORM VRF, and REF. PIPE TO/FORM VRF.
- Other Features:** The plan also shows a REF. PIPE TO, a REF. PIPE TO/FORM VRF, and a REF. PIPE TO/FORM VRF.



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	SECOND AND ROOF FLOOR: HVAC - PIPING SYSTEM LAYOUT	
DRAWN BY : MECH.T		SCALE: 1:100
DESIGNED BY : A.Q		DATE : DEC.-2023
CHECKED BY : F.N		PROJECT No.
APPROVED BY: F.N		DRAWING No. M-401



الطابق الارضى



الطابق الاول



NOTES:

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

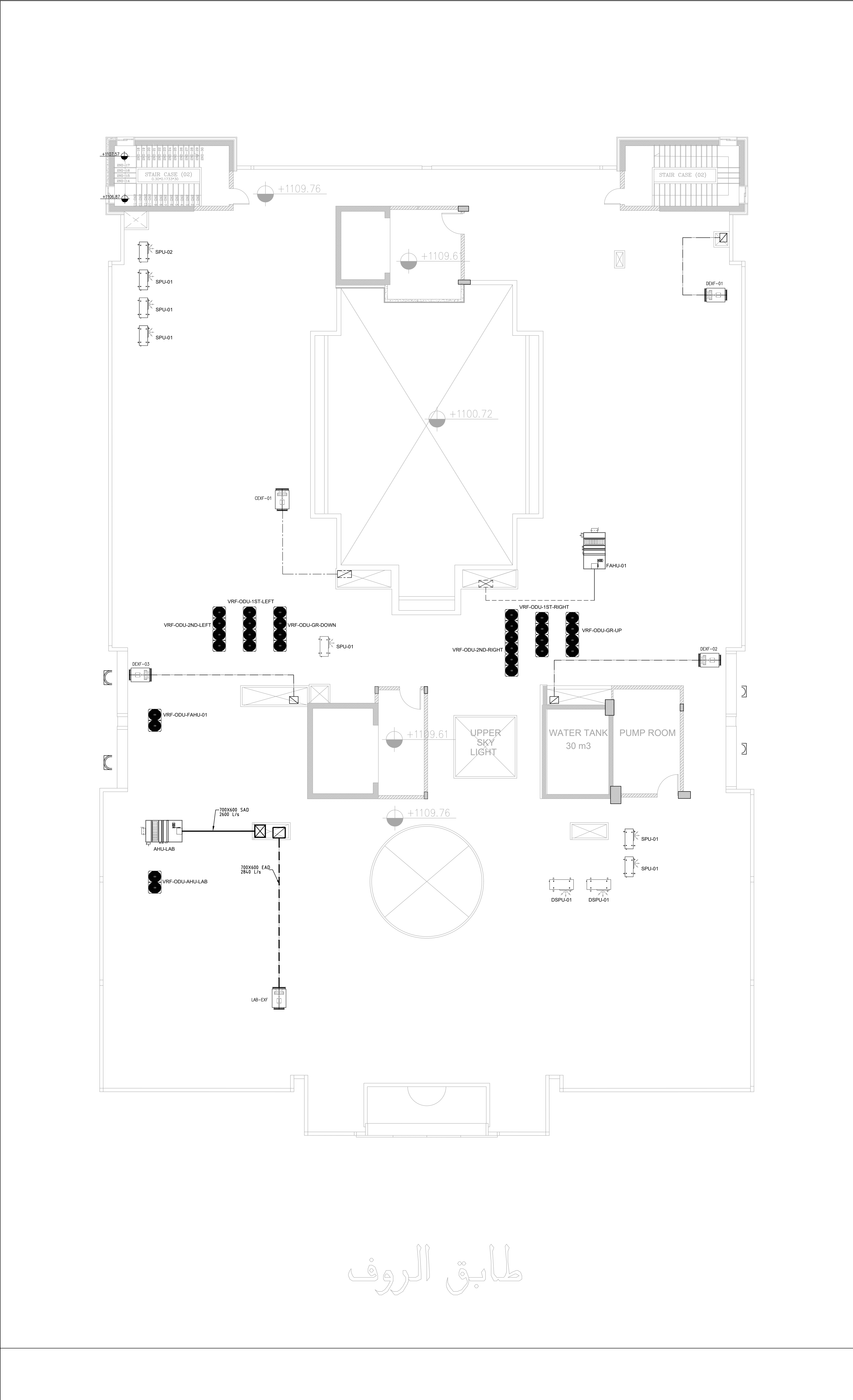
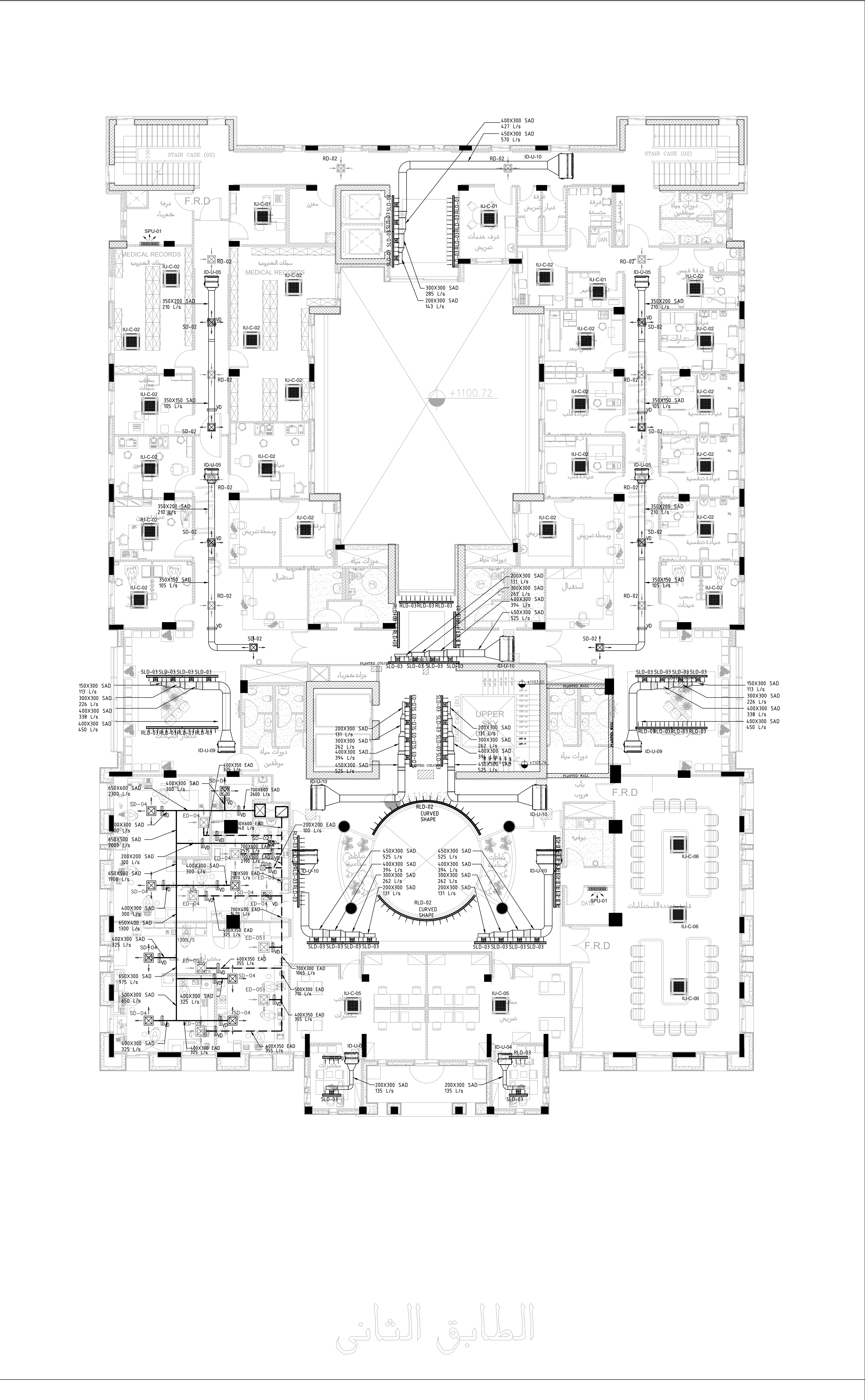
REV. MARK DATE MADE BY REMARKS
CLIENT THE NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

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 GROUND AND FIRST FLOOR:
HVAC - DUCTING SYSTEM LAYOUT

DRAWN BY : MECH.T SCALE: 1:100
DESIGNED BY : A.Q DATE : DEC.-2023
CHECKED BY : F.N PROJECT No. DRAWING No.
APPROVED BY: F.N M-500

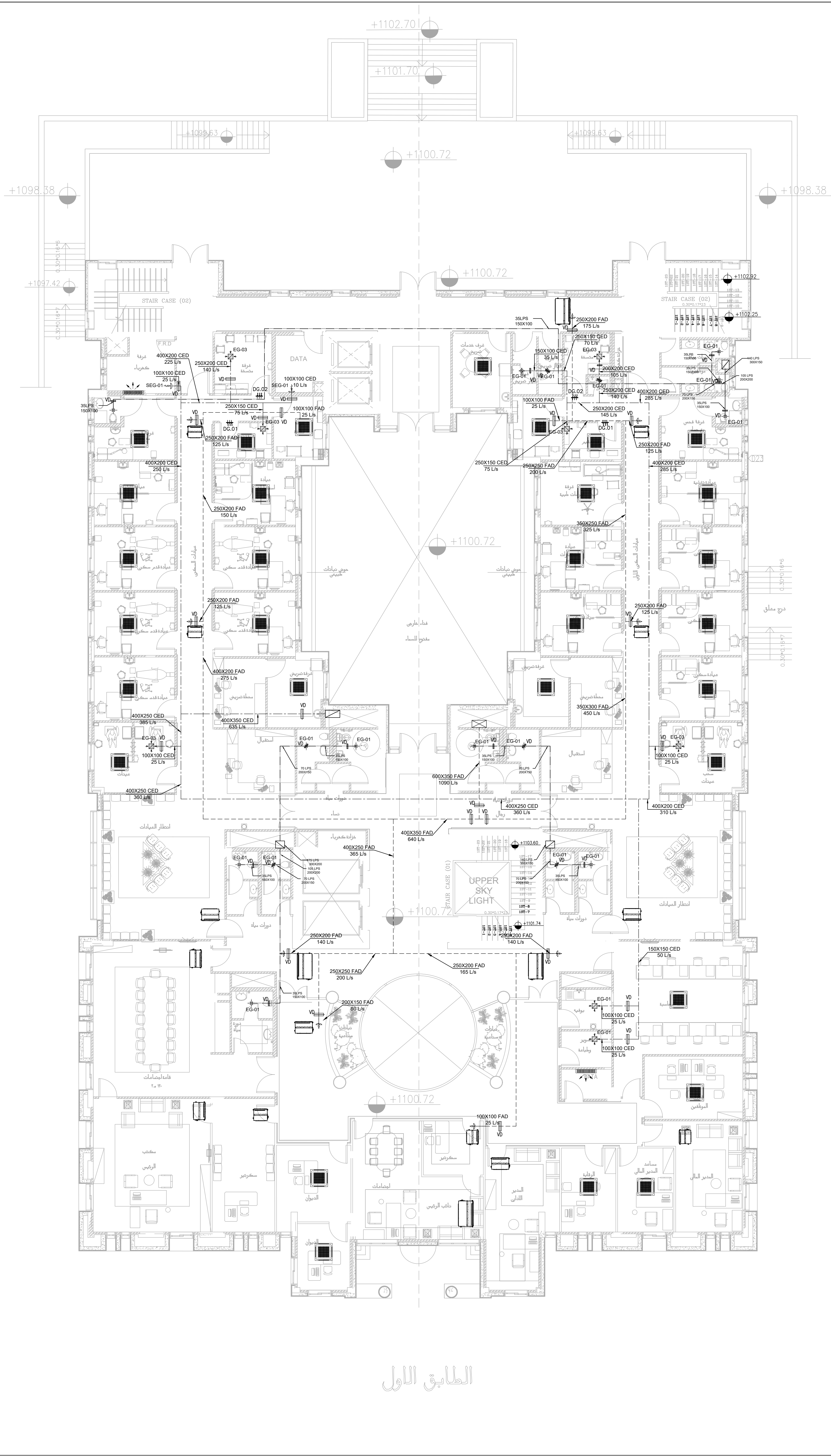
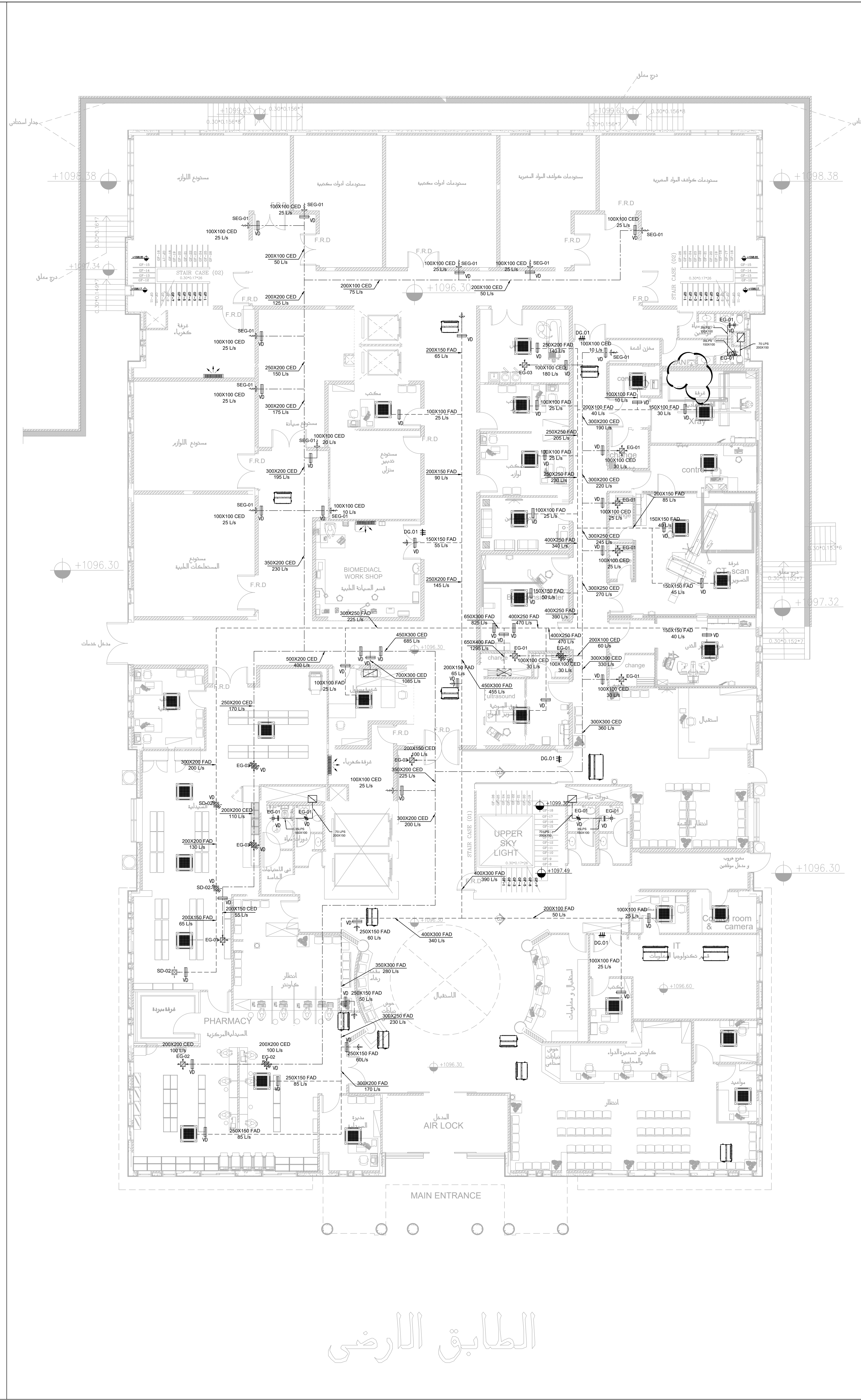


NOTES:

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.	SECOND AND ROOF FLOOR:			
TITLE	HVAC – DUCTING SYSTEM LAYOUT			
DRAWN BY		:	MECH.T	SCALE: 1:100
DESIGNED BY		:	A.Q	DATE :DEC.–2023
CHECKED BY		:	F.N	PROJECT No.
APPROVED BY: F.N				DRAWING No. M–501

الطابق الثاني

طابق الروف

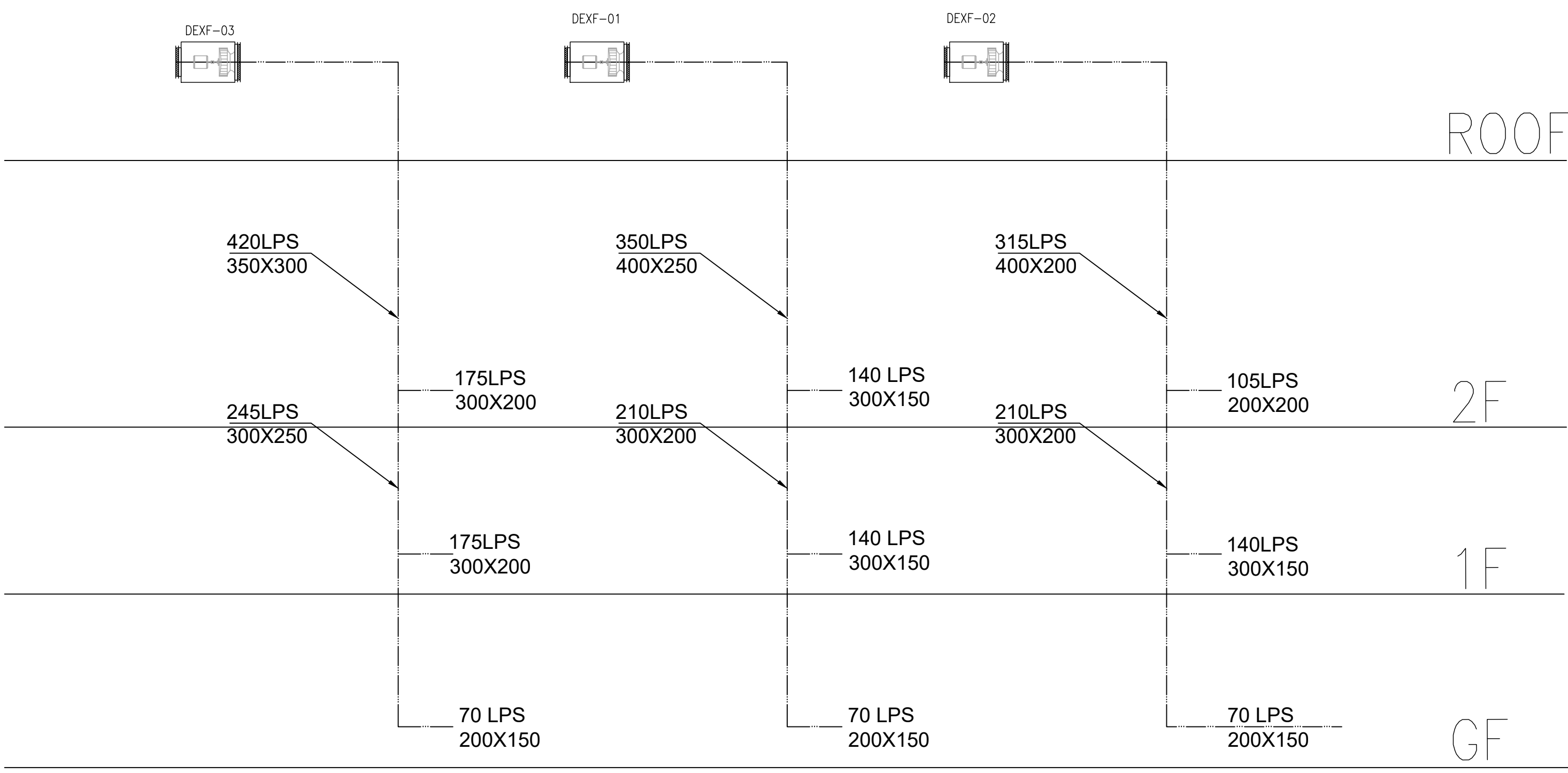


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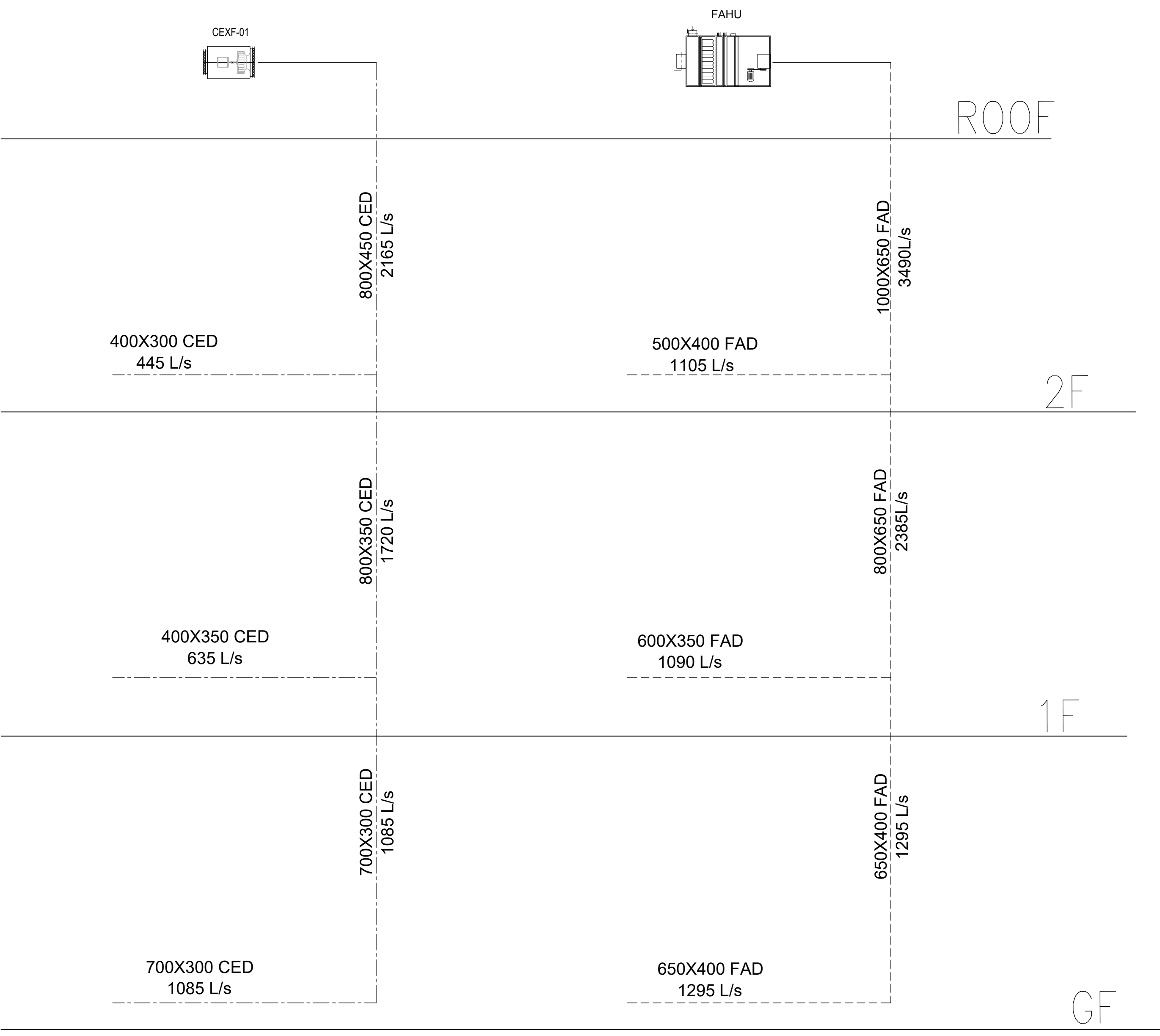
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DISTRICT		KARAK		
BASIN		14 TALAT EAWAHAD		
REV.	MARK	DATE	MADE BY	REMARKS
CLIENT		THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
M P C E	MADI & PARTNERS CONSULTING ENGINEERS			
	TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo			
PROJECT		NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE		GROUND AND FIRST FLOOR: HVAC - FRESH & EXHAUST SYSTEM LAYOUT		
DRAWN BY : MECH.T			SCALE: 1:100	
DESIGNED BY: A.Q			DATE : DEC.-2023	
CHECKED BY: F.N			PROJECT No.	DRAWING No.
APPROVED BY: F.N				M-600



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	MADANI & PARTNERS CONSULTING ENGINEERS TEL:5829640-5829641 FAX:5829642 e-mail : mpce@index.com.jo			
C	E				
PROJECT		NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY			
DRG. TITLE	SECOND FLOOR: HVAC – FRESH & EXHAUST SYSTEM LAYOUT				
DRAWN BY : MECH.T			SCALE: 1:100		
DESIGNED BY : A.Q			DATE : DEC.-2023		
CHECKED BY : F.N			PROJECT No.		DRAWING No.
APPROVED BY: F.N					M-601



DIRTY EXHAUST



CLEAN EXHAUST

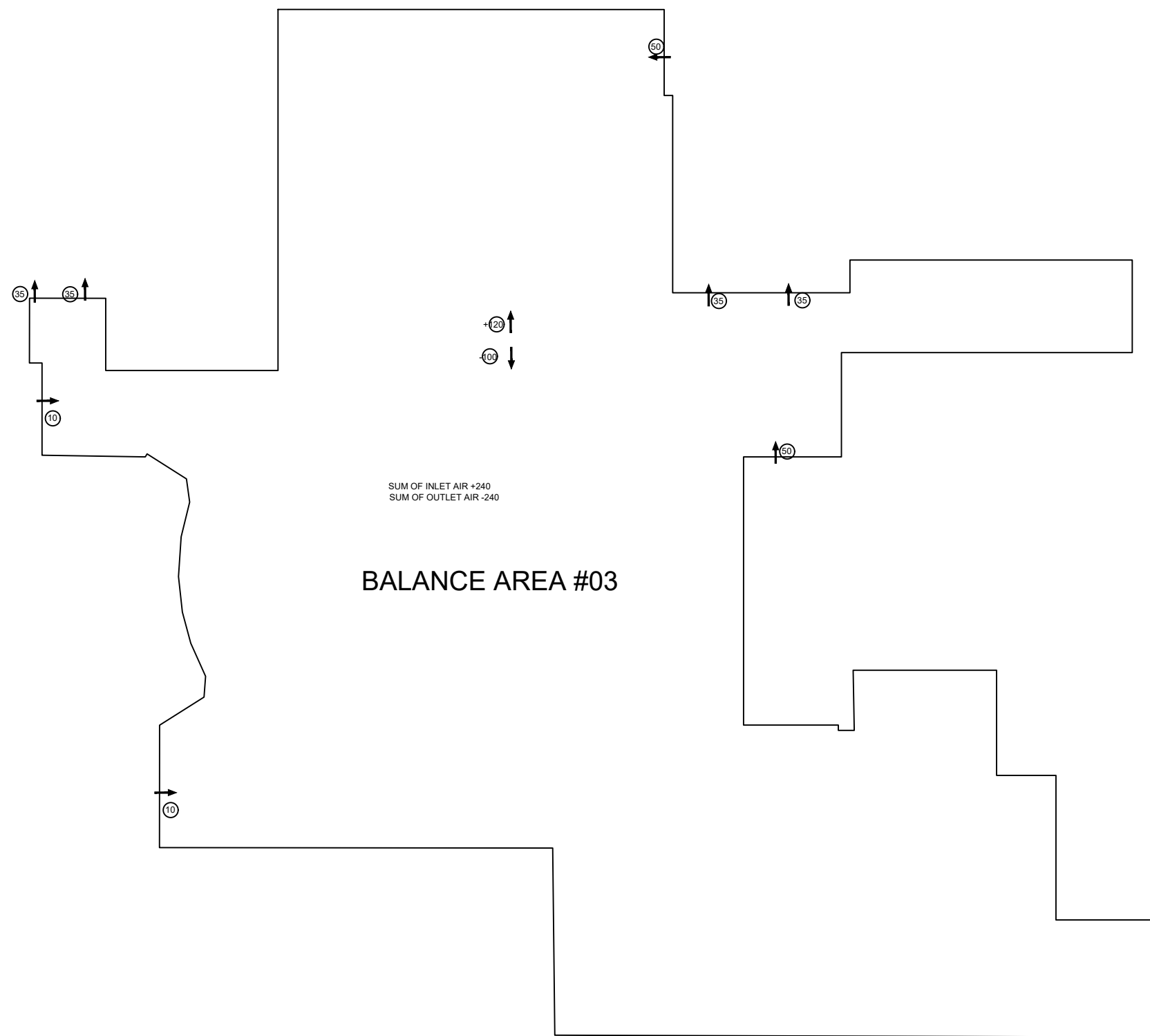
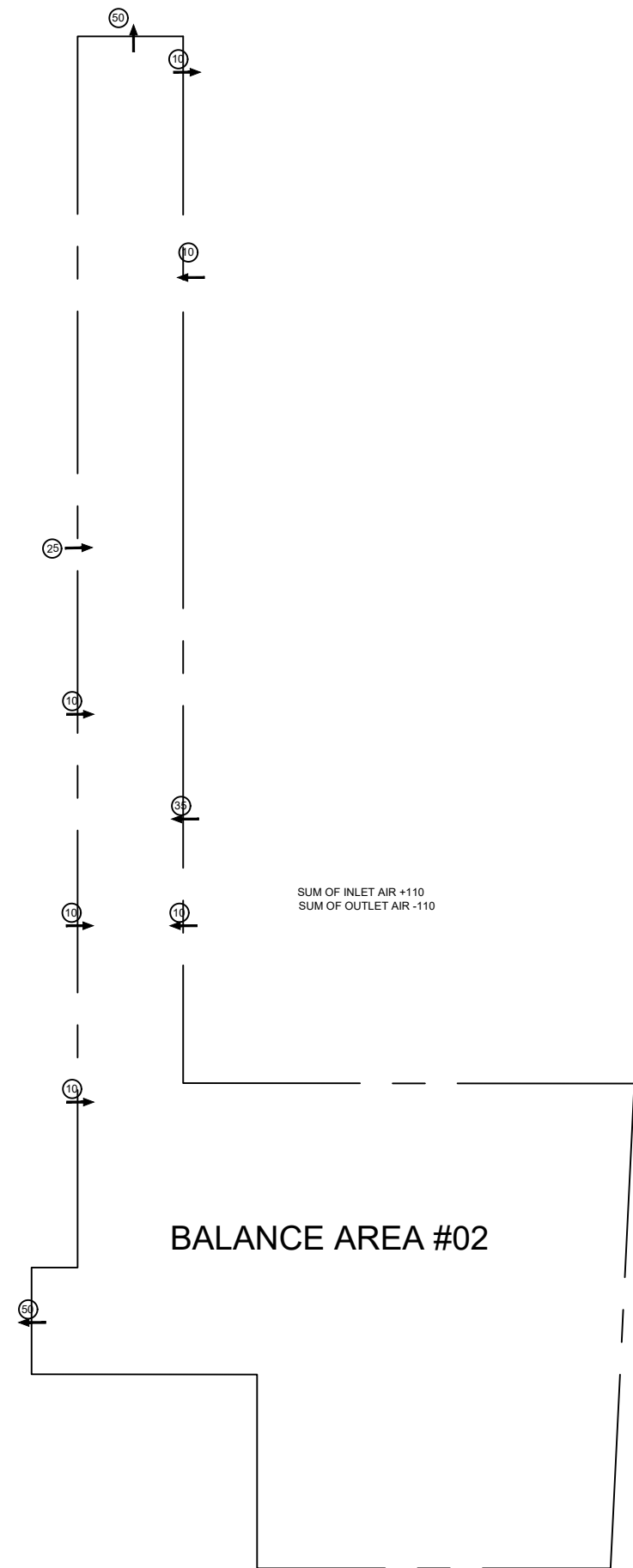
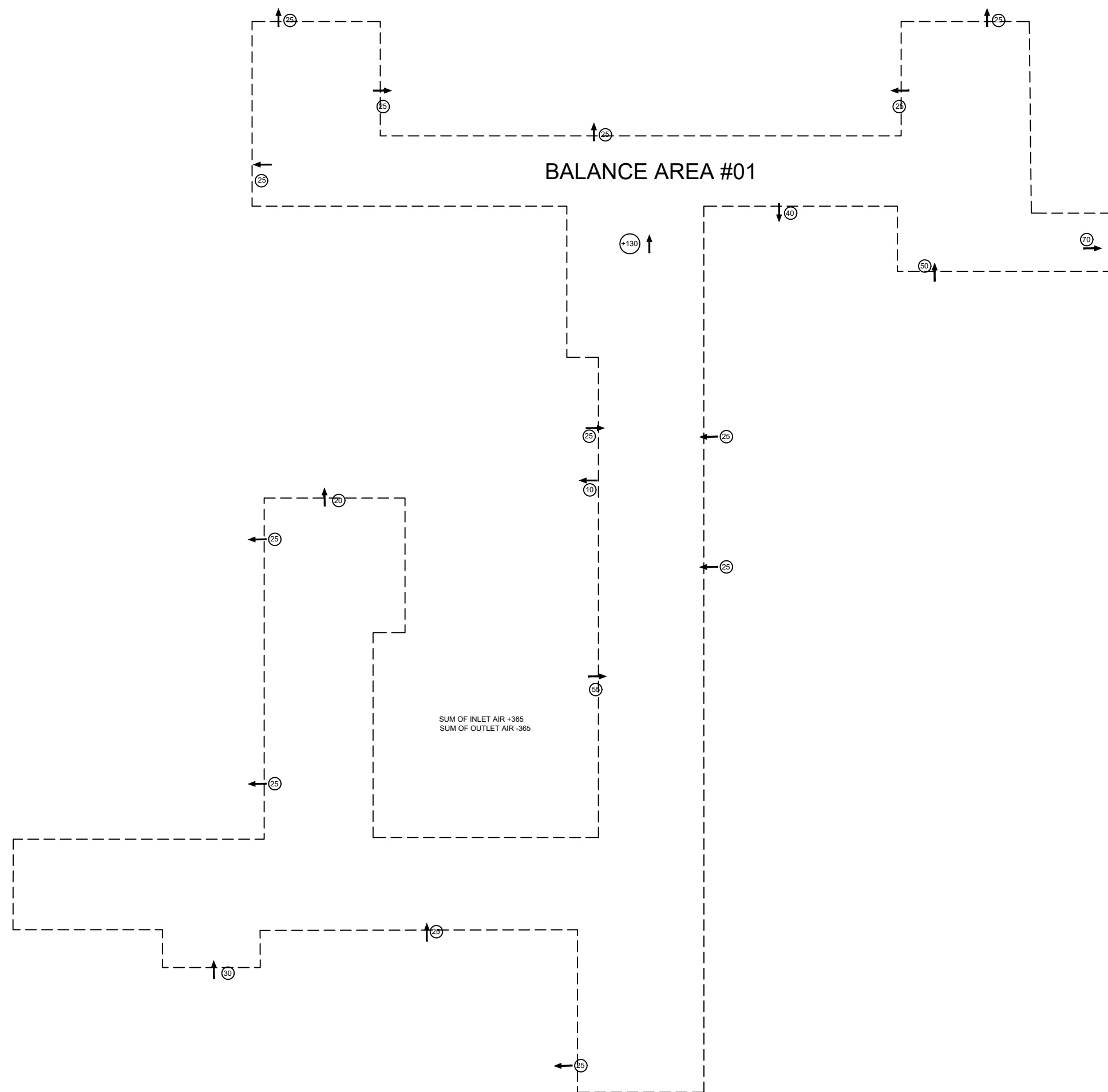
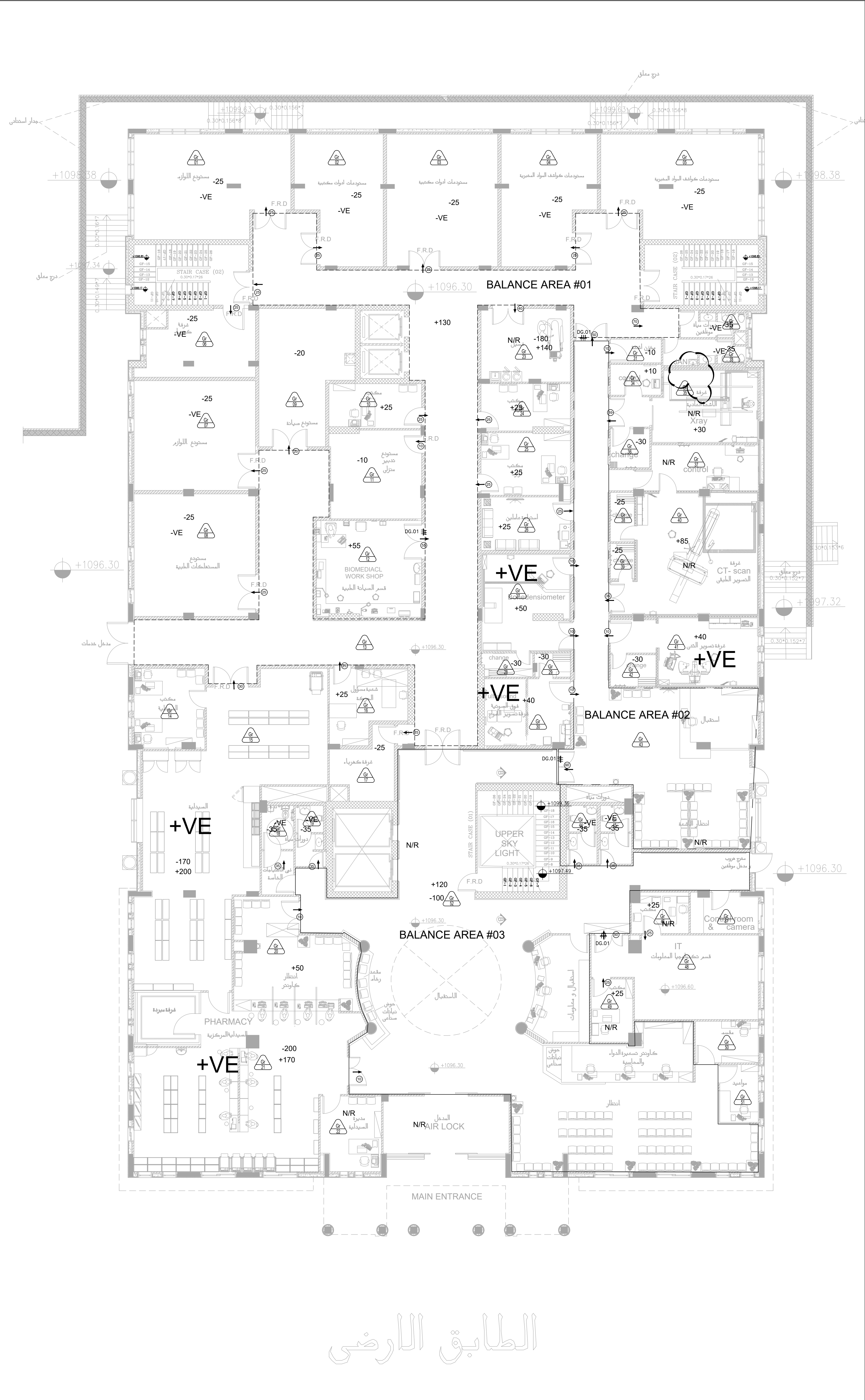
FRESH AIR

FRESH & EXHAUST RISER



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	HVAC – FRESH & EXHAUST SYSTEM RISERS		
DRAWN BY : MECH.T		SCALE: N.T.S	
DESIGNED BY : A.Q		DATE : DEC.-2023	
CHECKED BY : F.N		PROJECT No.	DRAWING No.
APPROVED BY: F.N			M-602

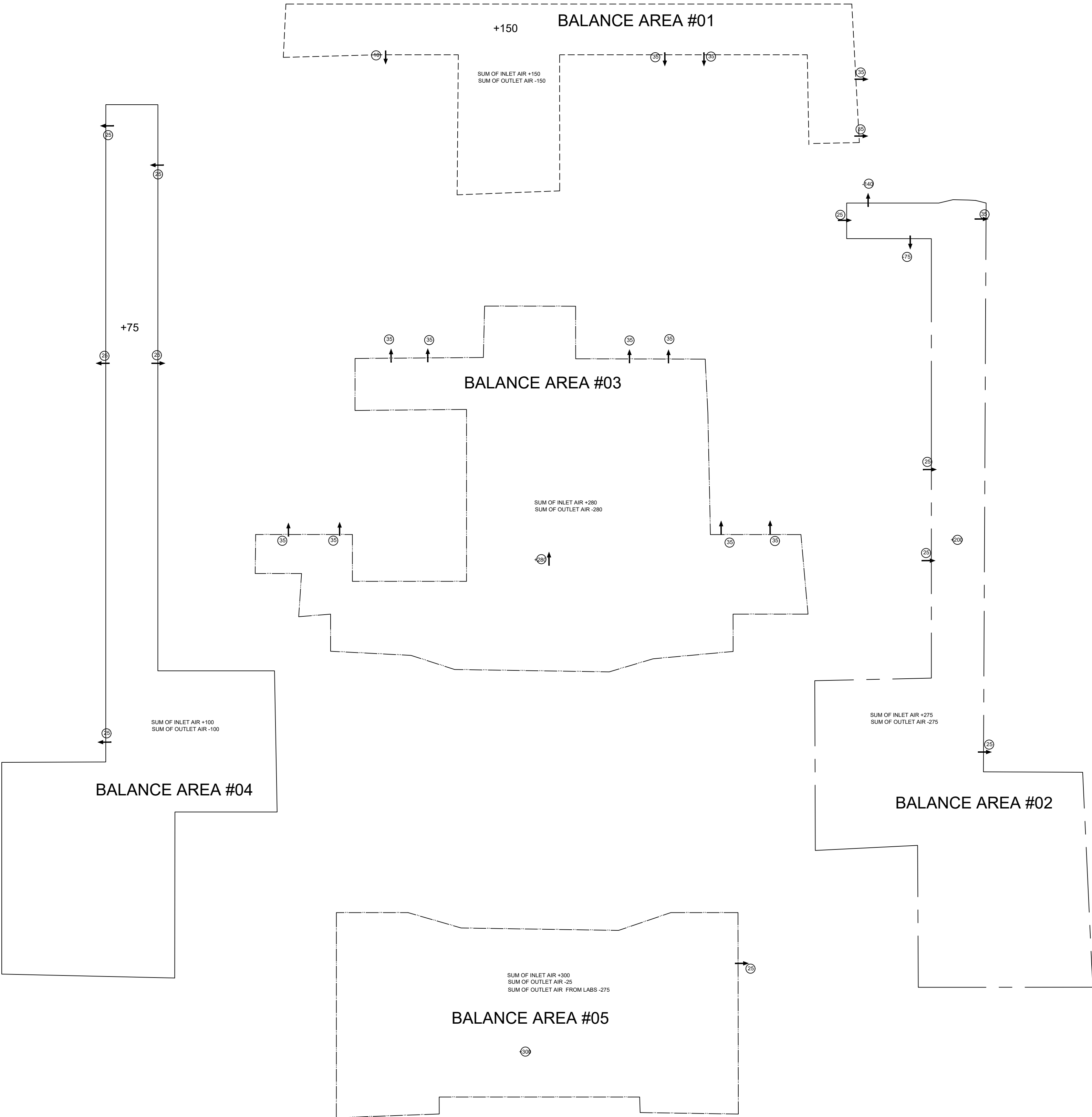
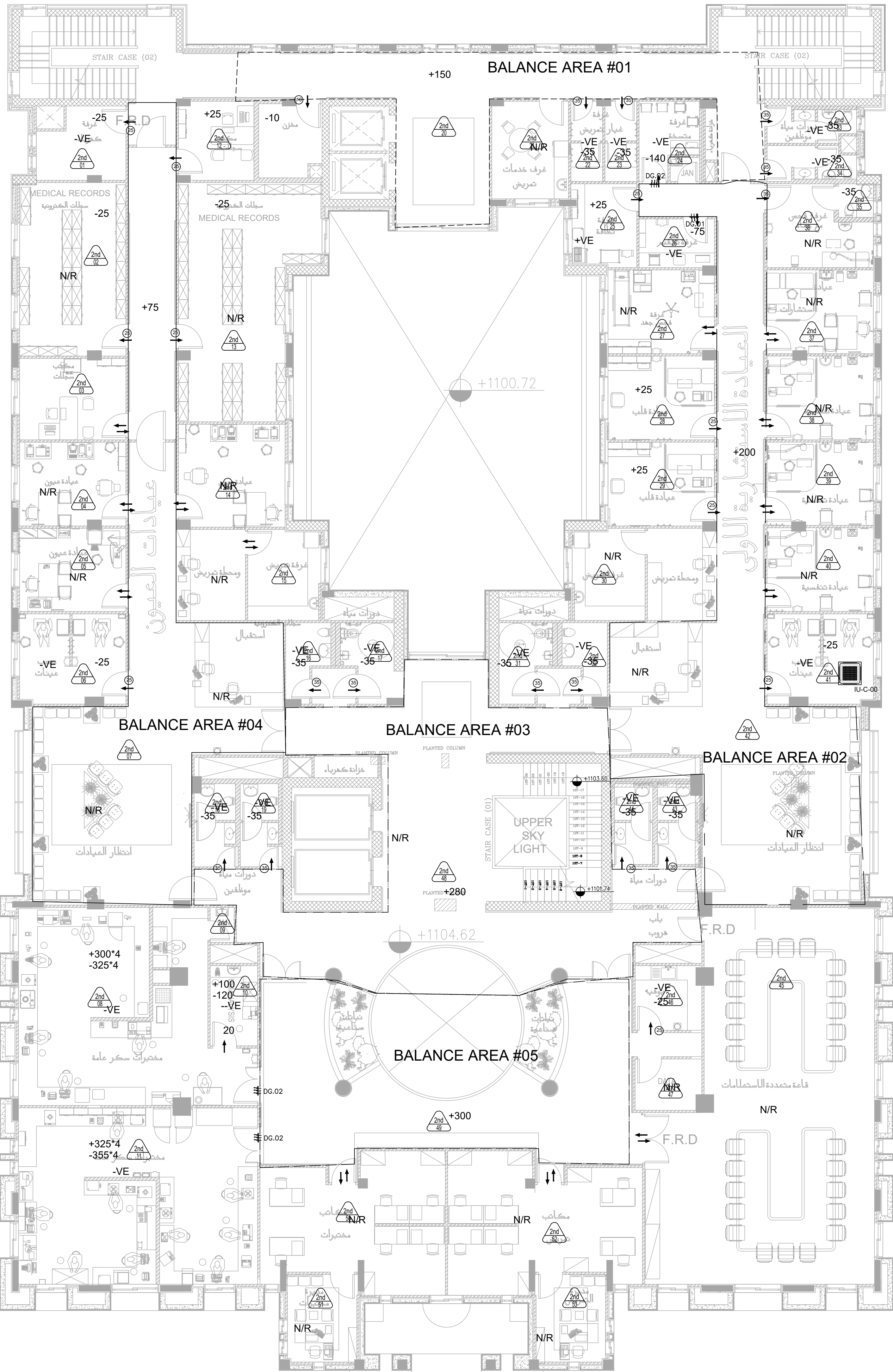


NOTES:

PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
V. MARK	DATE	MADE BY		REMARKS	
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS				
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				
RG.	GROUND FLOOR:				
TITLE	HVAC-PRESSURIZATION		&BALANCING LAYOUT		
DRAWN BY : MECH.T			SCALE: 1:100		
DESIGNED BY: A.Q			DATE : DEC.-2023		
CHECKED BY: F.N			PROJECT No.		
PPROVED BY: F.N			DRAWING No. M-700		



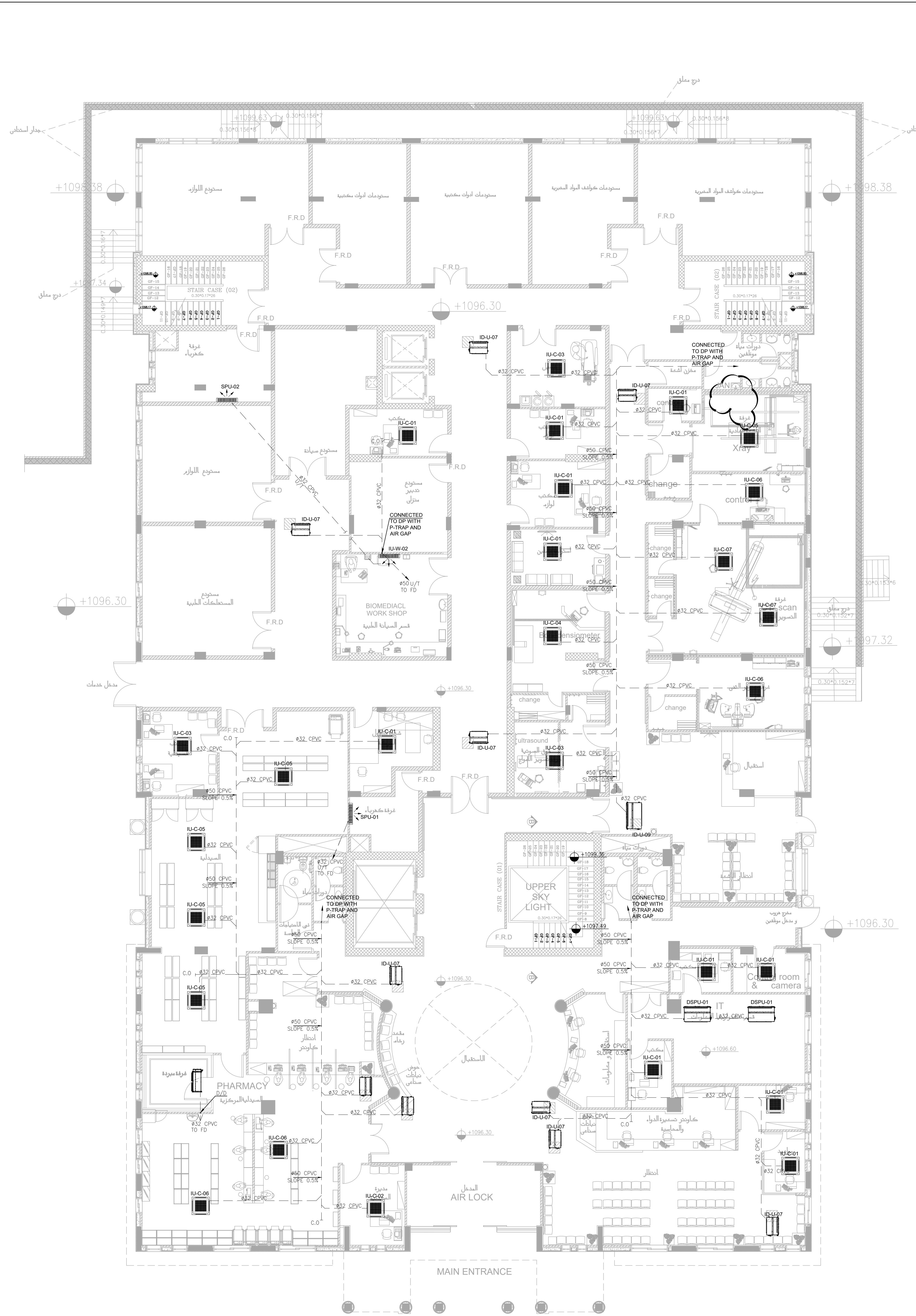
PLOT NO :		1	
DISTRICT :		KARAK	
BASIN :		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
CLIENT THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
MP CE		MADANI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo	
PROJECT		NATIONAL DIABETES AND ENDOCRINOLOGY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



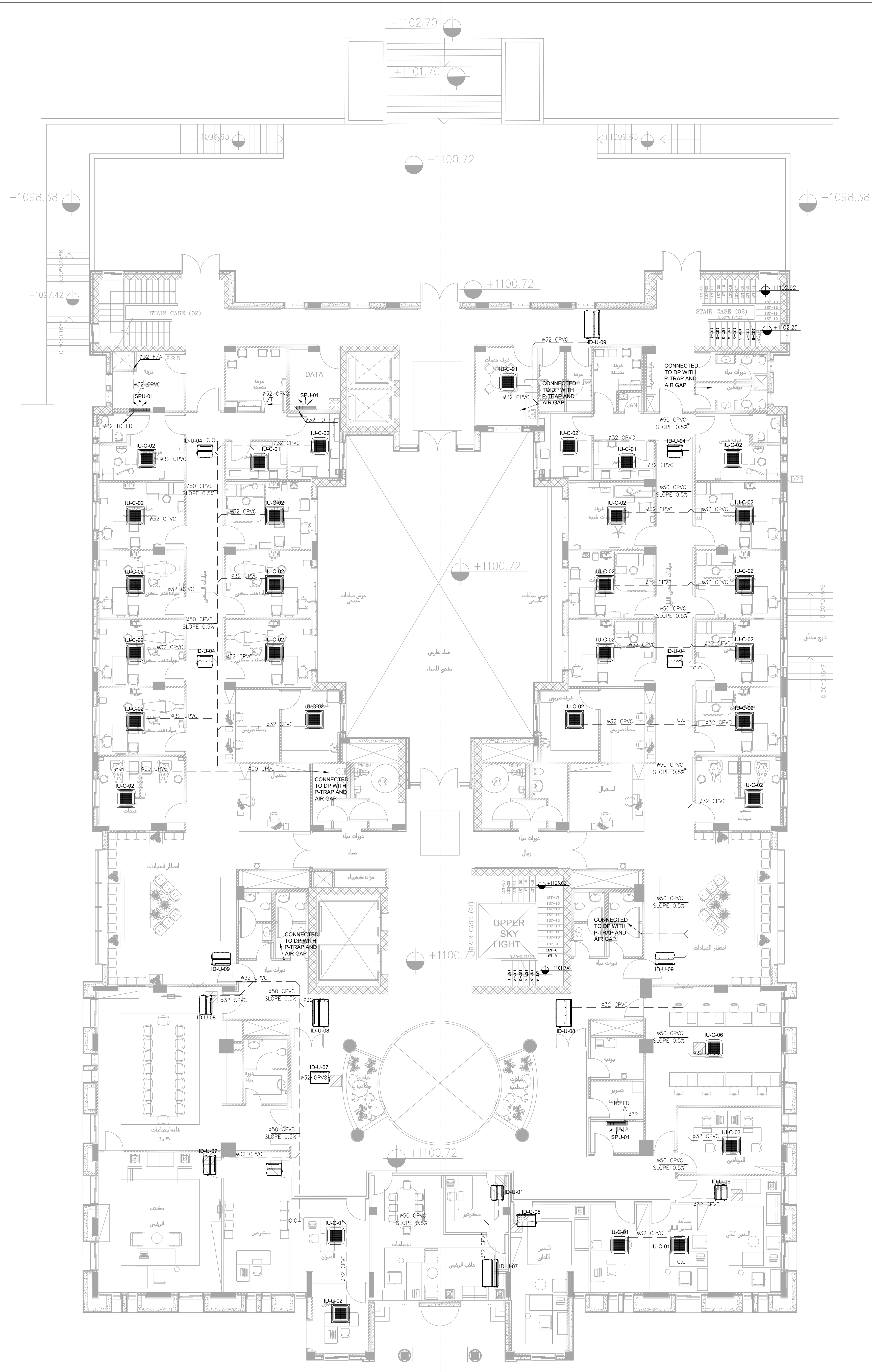
NOTES:

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	SECOND FLOOR: HVAC-PRESSURIZATION &BALANCING LAYOUT		
DRAWN BY : MECH.T		SCALE: 1:100	
DESIGNED BY : A.Q		DATE :DEC.-2023	
CHECKED BY : F.N		PROJECT No.	DRAWING No.
APPROVED BY: F.N		M-702	

الطابق الثاني



الطابق الارضى

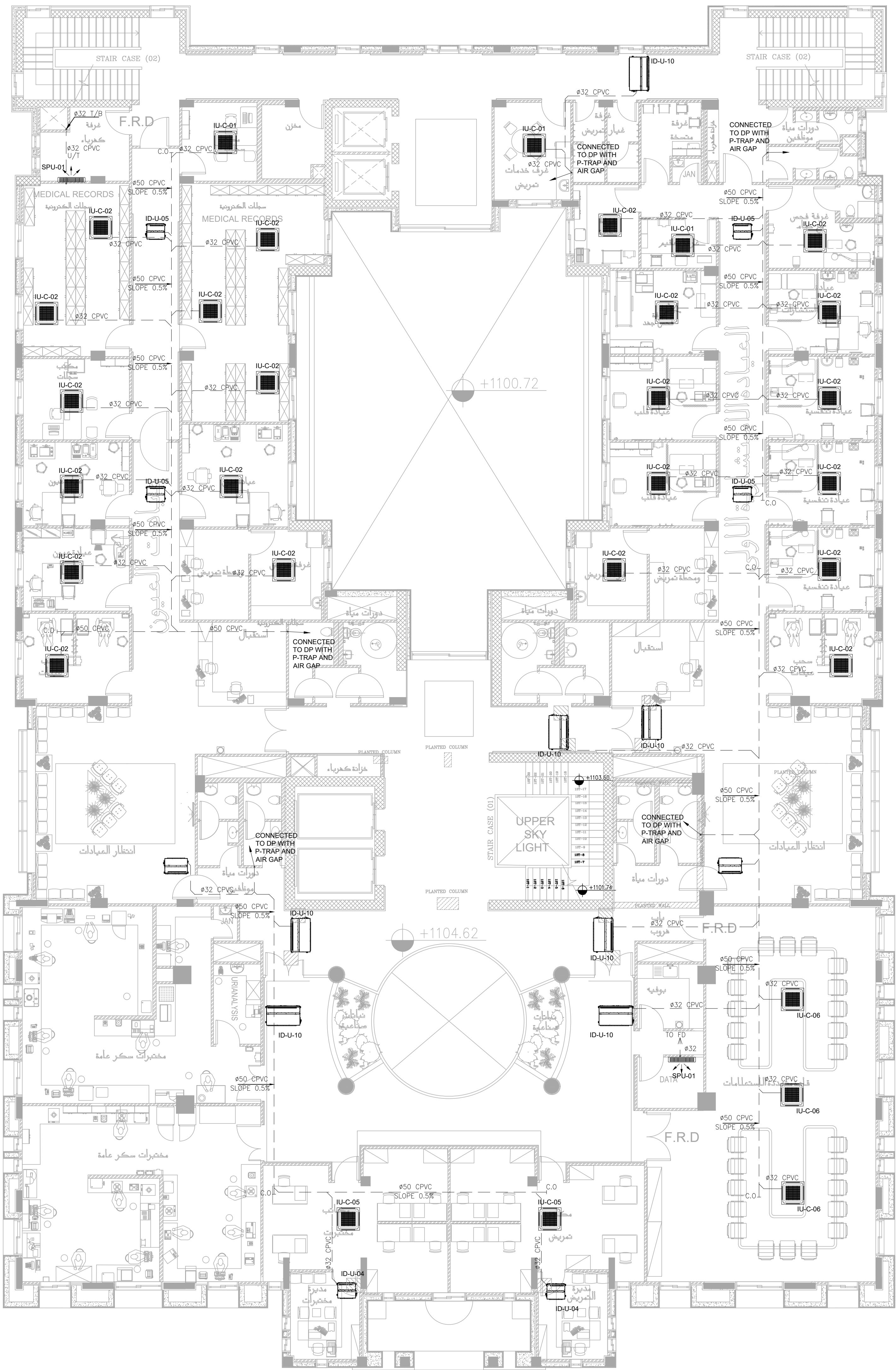


الطابق الاول



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		
MPC	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 AND FIRST FLOOR: HVAC CONDENSATION LAYOUT			
DRAWN BY		MECH.T		SCALE: 1:100
DESIGNED BY		A.Q		DATE : DEC.-2023
CHECKED BY		F.N		PROJECT No. DRAWING No. M-800
APPROVED BY		F.N		

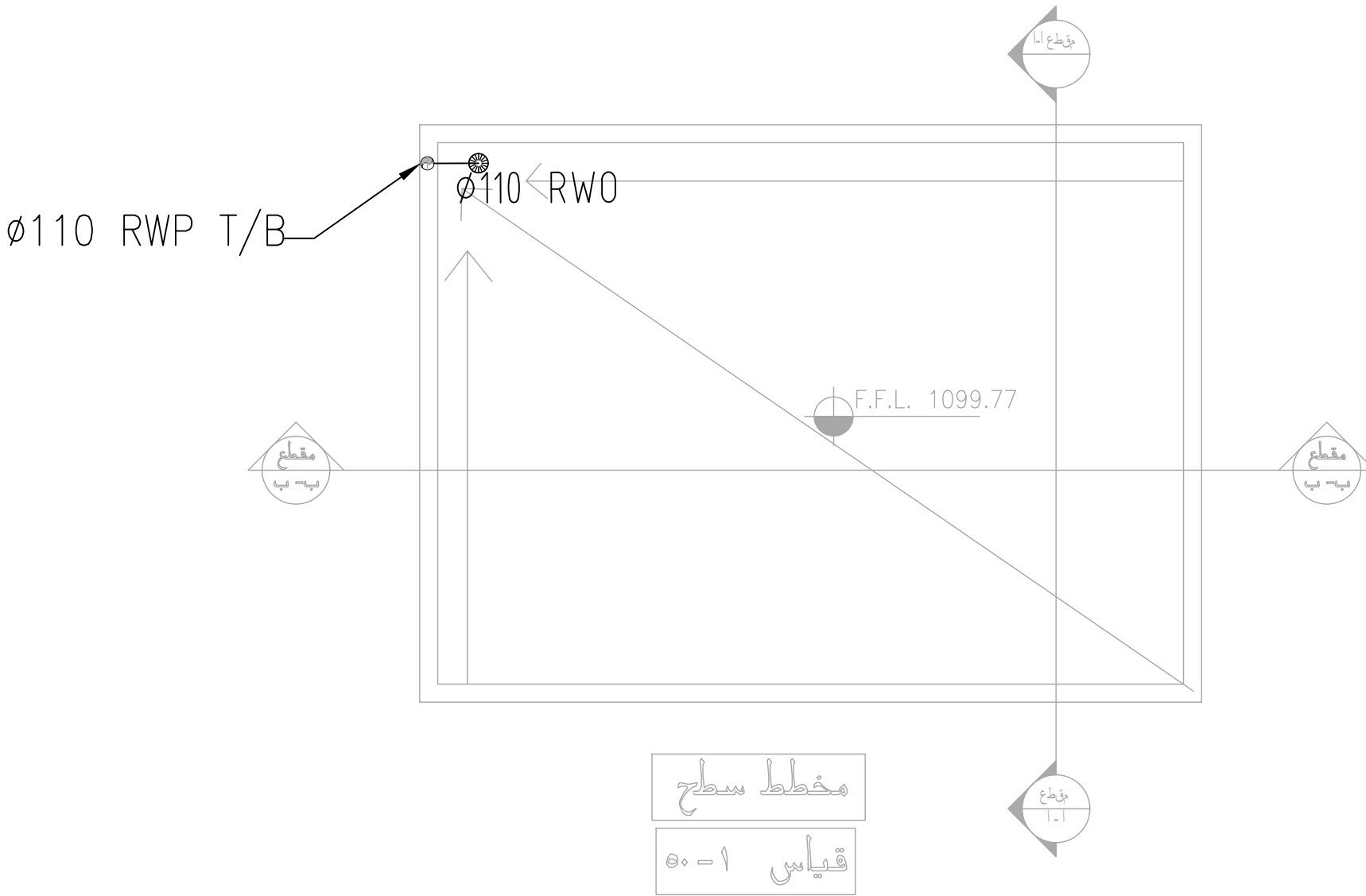
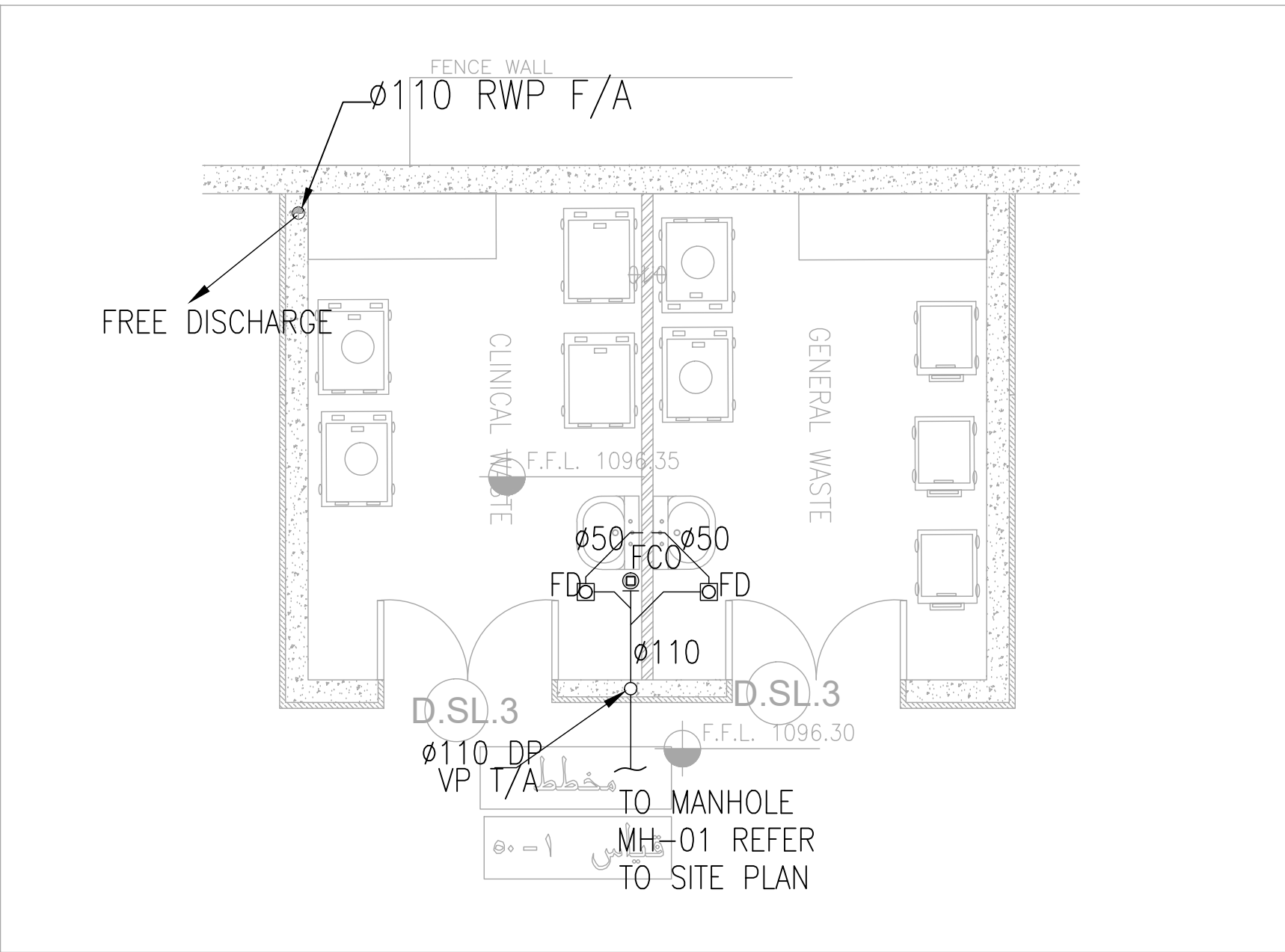


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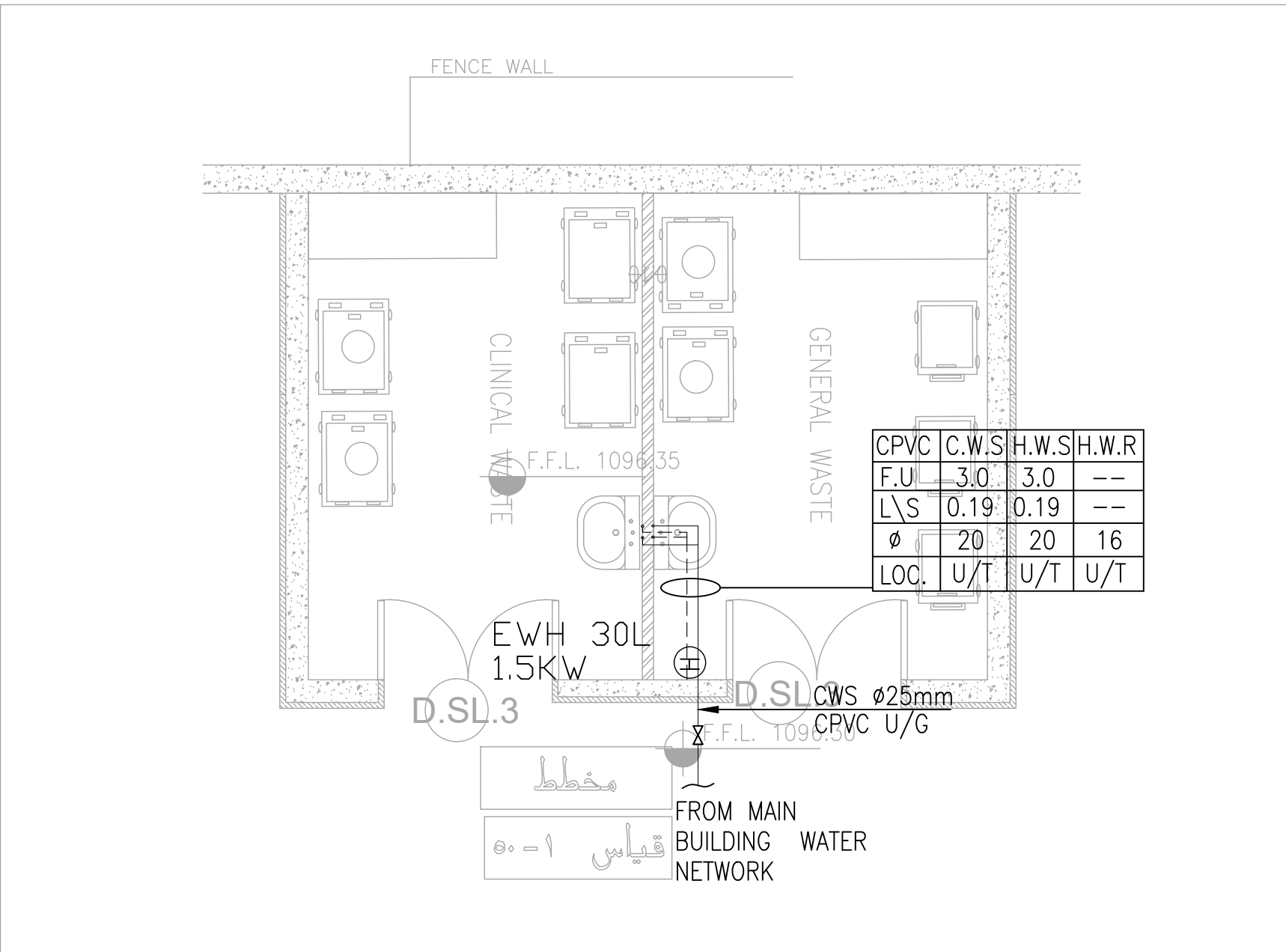


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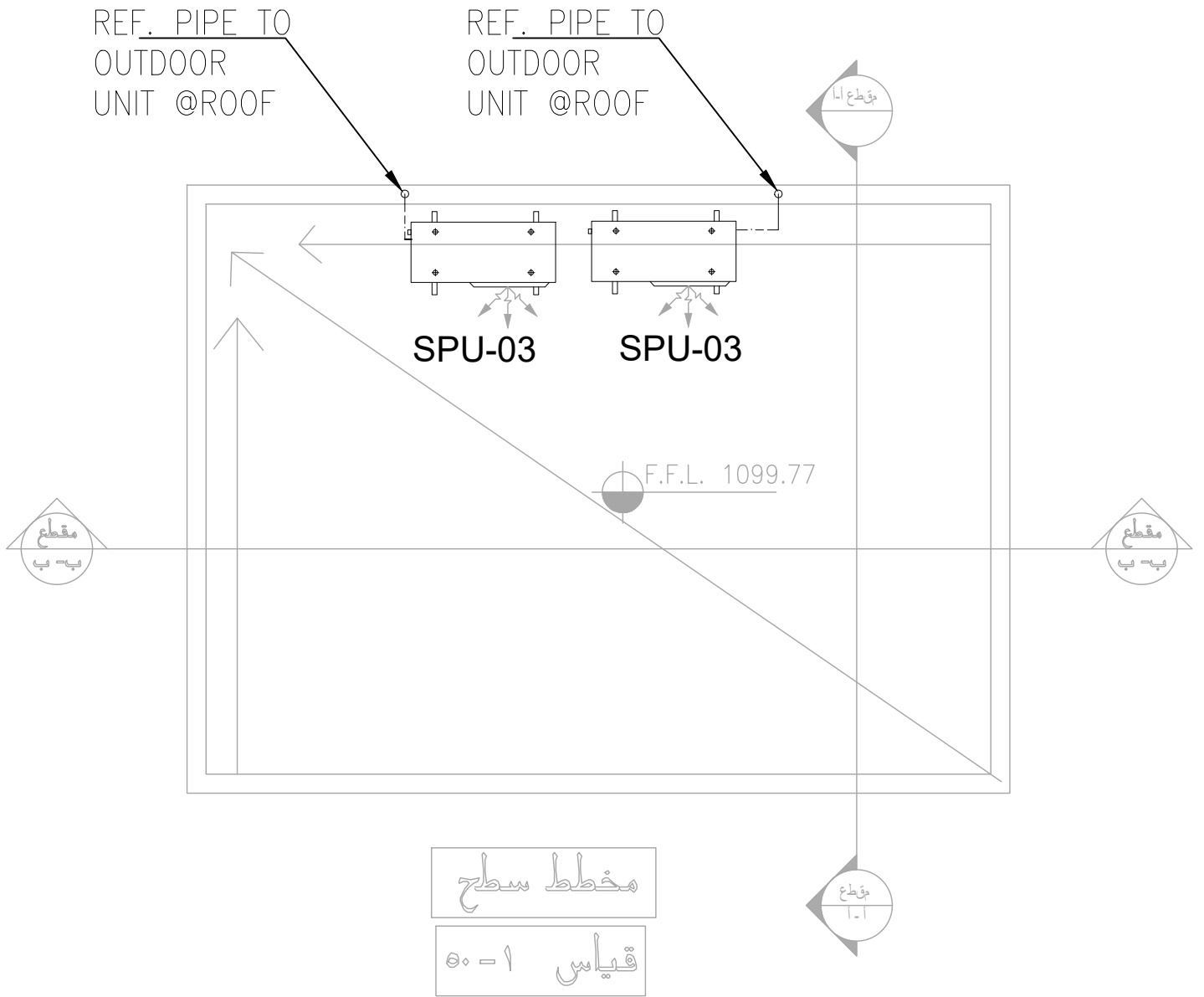
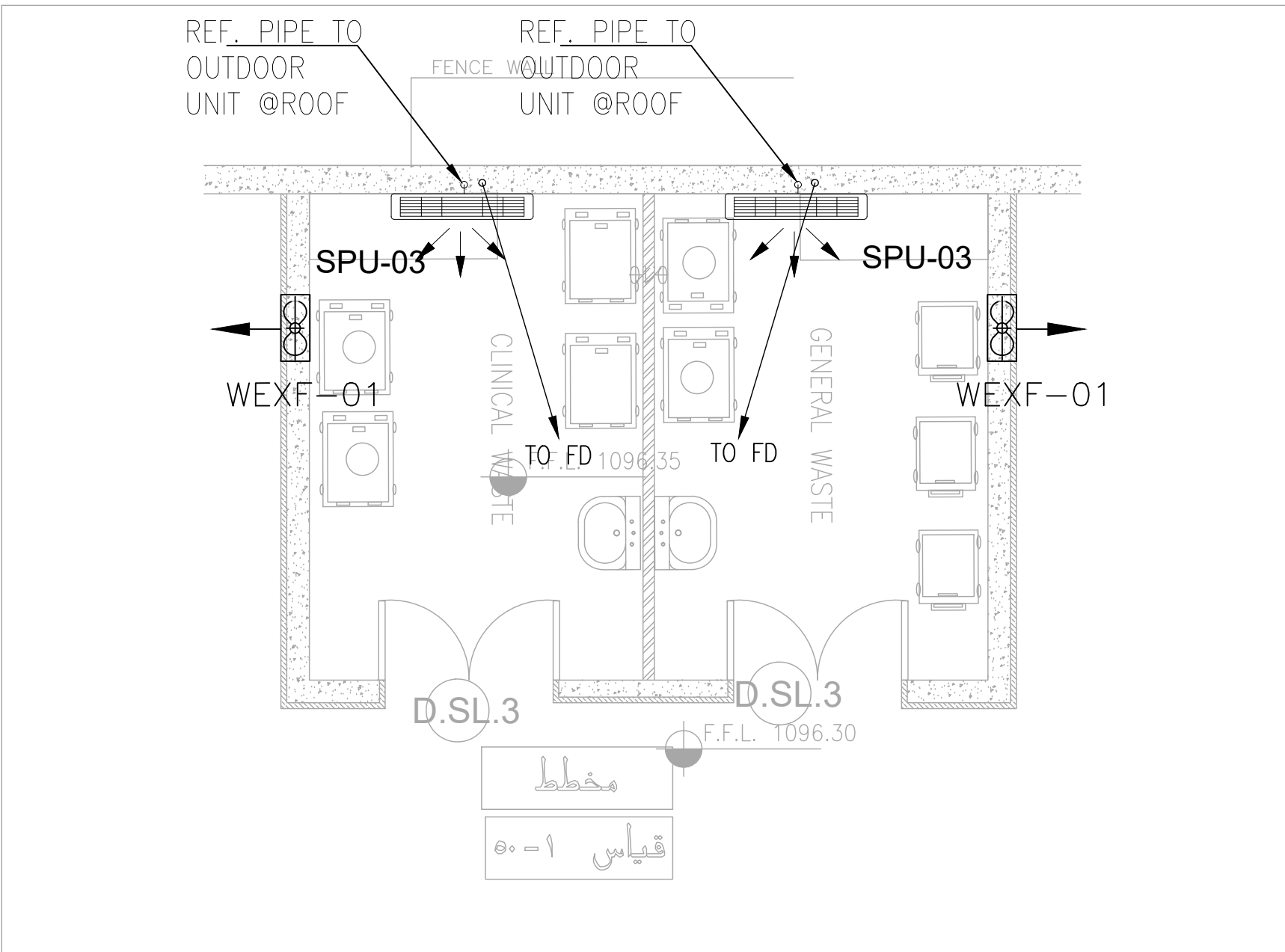
PLOT NO		1	
DISTRICT		KARAK	
BASIN		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
CLIENT THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
MADI & PARTNERS CONSULTING ENGINEERS C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
	PROJECT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



DRAINAGE SYSTEM



WATER SYSTEM

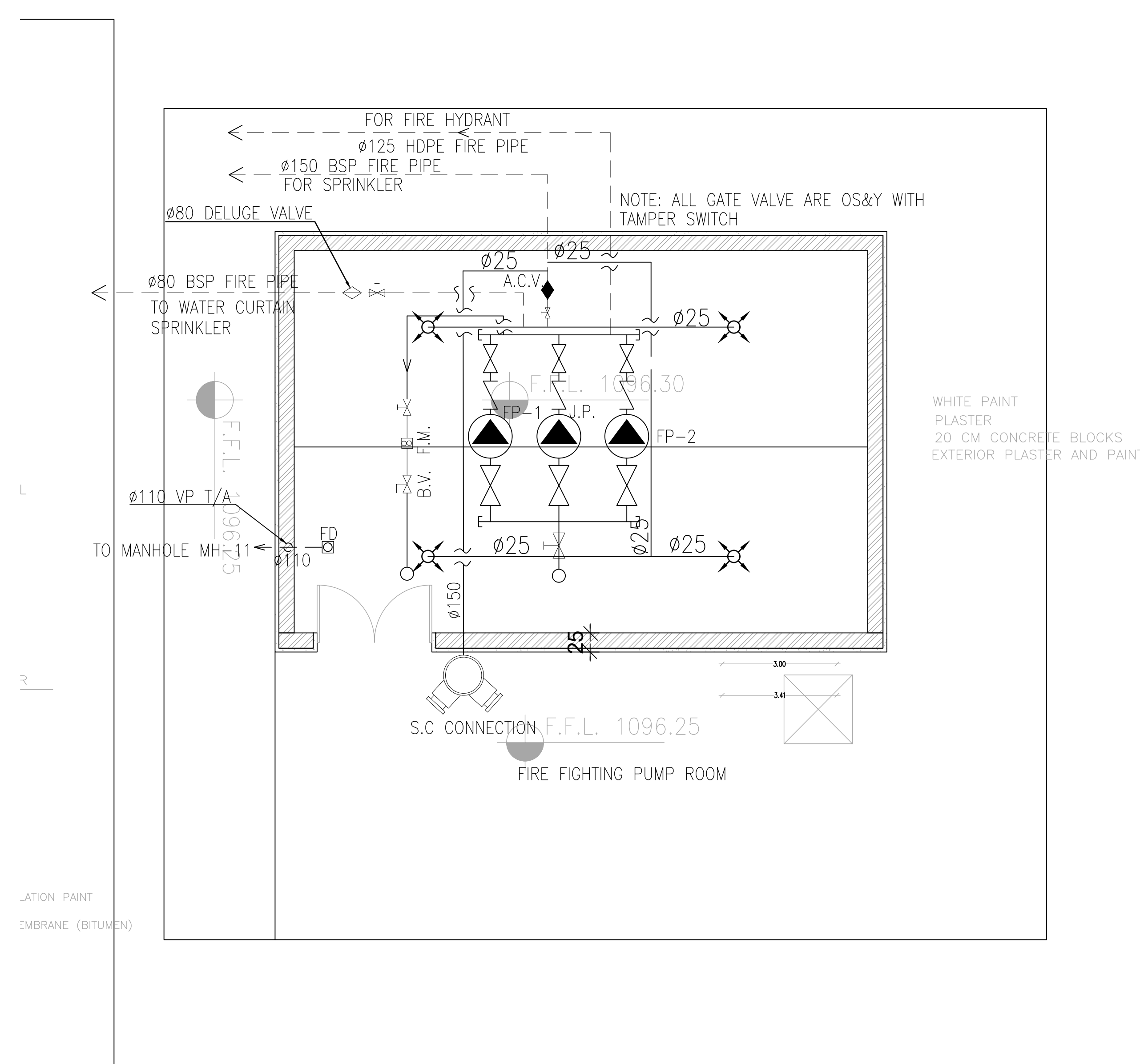


HVAC SYSTEM

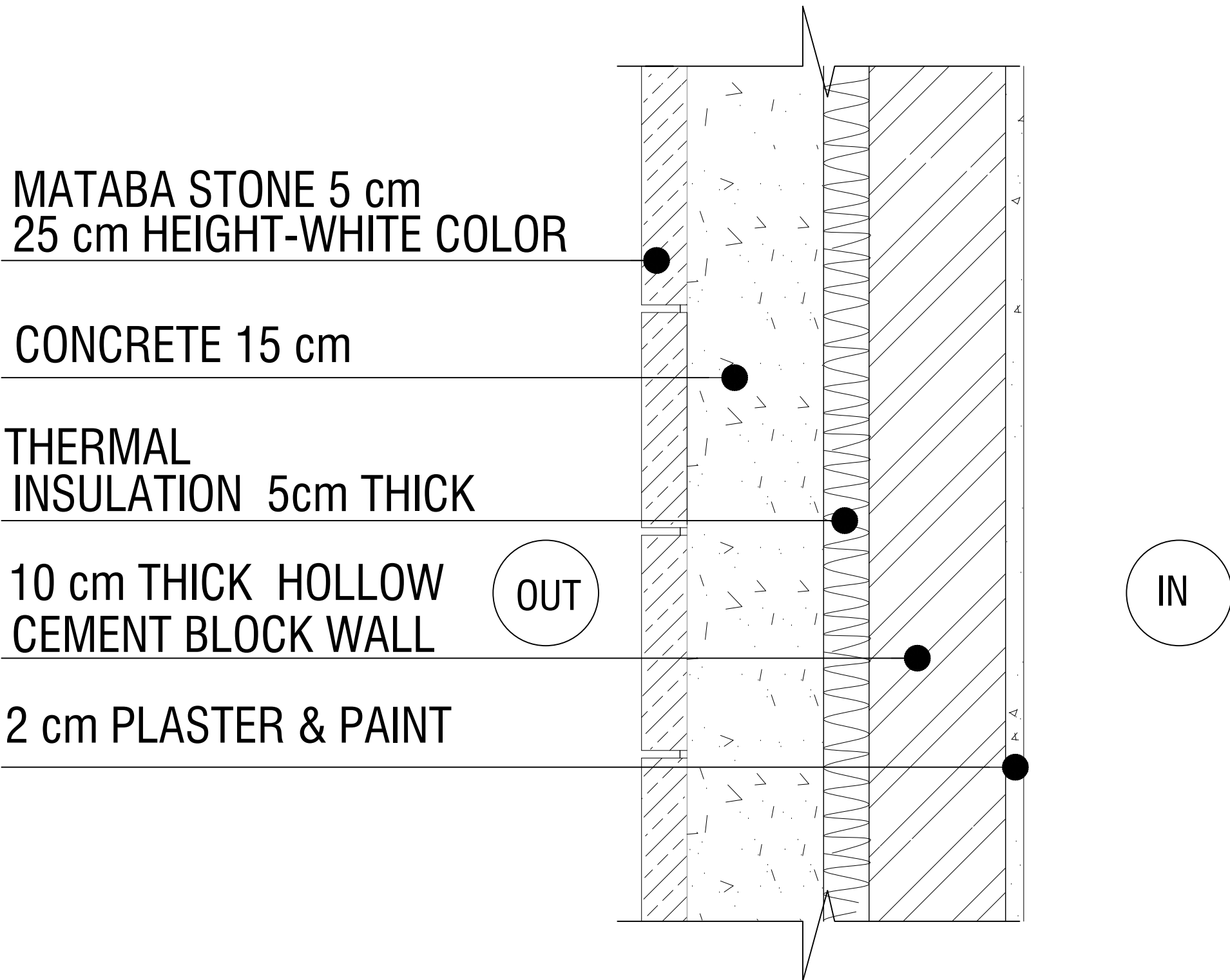
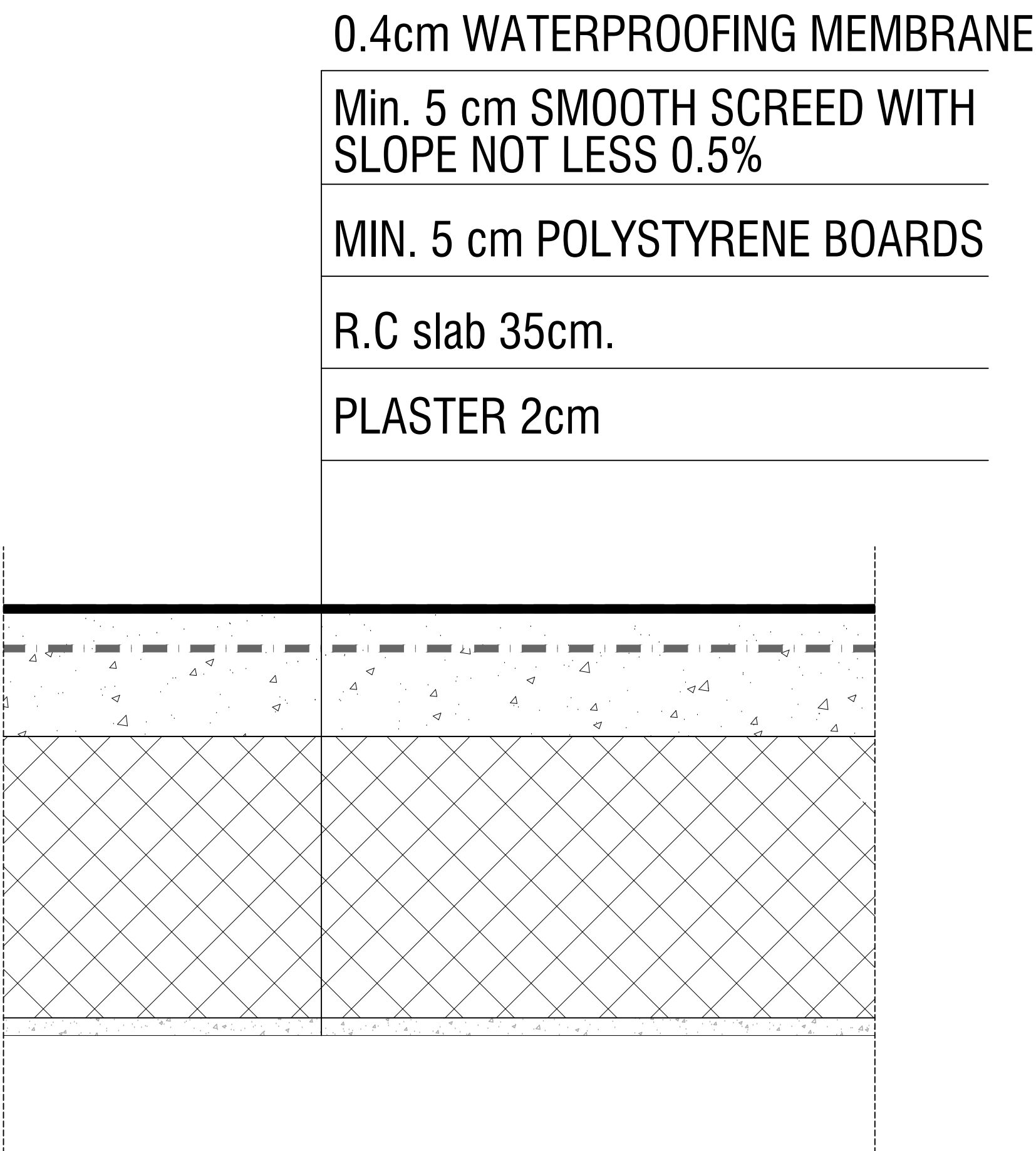


NOTES:

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	WASTE ROOM MECHANICAL SYSTEMS				
DRAWN BY			:	MECH.T	
SCALE:			1:50		
DESIGNED BY			:	A.Q	
DATE			:DEC.-2023		
CHECKED BY			:	F.N	
PROJECT No.			DRAWING No.		
APPROVED BY			:	F.N	
			M-900		



PLOT NO :		1	
DISTRICT :		KARAK	
BASIN :		14 TALAT EAWAHAD	
IV. MARK	DATE	MADE BY	REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
	<div> <div>M P C E</div> <div> MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo </div> </div>		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
ORG. TITLE	FIRE PUMP ROOM		
DRAWN BY :		MECH.T	SCALE: 1:50
DESIGNED BY :		A.Q	DATE : DEC.-2023
CHECKED BY :		F.N	PROJECT No. DRAWING No. M-901
APPROVED BY :		F.N	



ROOF THERMAL TRANSMITTANCE CALCULATION

LAYER	MATERIAL	THICKNESS (L) mm	CONDUCTIVITY (W/m.K)	RESISTANCE (m2.K/W)
1	EXTERNAL AIR	—	—	0.06
2	MEMBRANE	4.0	0.18	0.022
3	SCREED CONCRETE	50	1.00	0.05
4	EXTRUDED POLYSTYRENE (35 KG/m3)	50	0.030	1.67
5	CONCRETE SOLID SLAB	350	1.75	0.20
6	PLASTER	20	1.20	0.0167
7	INTERNAL AIR	—	—	0.12
TOTAL				2.14

U roof=0.46 W/m² C

U=1/R=1/2.14=0.46W/m² C

WALL THERMAL TRANSMITTANCE CALCULATION

LAYER	MATERIAL	THICKNESS (L) mm	CONDUCTIVITY (W/m.K)	RESISTANCE (m2.K/W)
1	EXTERNAL AIR	—	—	0.06
2	STONE	50	2.2	0.022
3	CONCRETE	150	1.75	0.086
4	EXTRUDED POLYSTYRENE (35 KG/m3)	50	0.03	1.67
5	HOLLOW BLOCK	100	1.1	0.091
6	CEMENT PLASTER	20	1.2	0.0167
7	INTERNAL AIR	—	—	0.12
TOTAL				2.066

U=1/R=1/2.066=0.48 W/m² C

U WALL=0.48 W/m² C

A: ALL AREA: 2580 M²

A1: GLASS AREA: 428 M²

A2: DOOR AREA: 15 M²

A3: NET AREA: 2137 M²

UxA=U1xA1+U2xA2+U3xA3

Ux2580 = 3.5 x428 + 3.5 x 15 +U3x(2137)

U : AS IN JORDAINIAN CODE MUST NOT EXCEED 1.6 W/m².c°

SO:

U3(WALL)= 0.48 W/m².c° < 0.57

Ux2580 = 3.5 x428 + 3.5 x 15 +0.48x(2137)

U=.....1.0..... W/m².c° ≤ 1.6



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 INSULATION LAYOUT

DRAWN BY : MECH.T SCALE: N.T.S

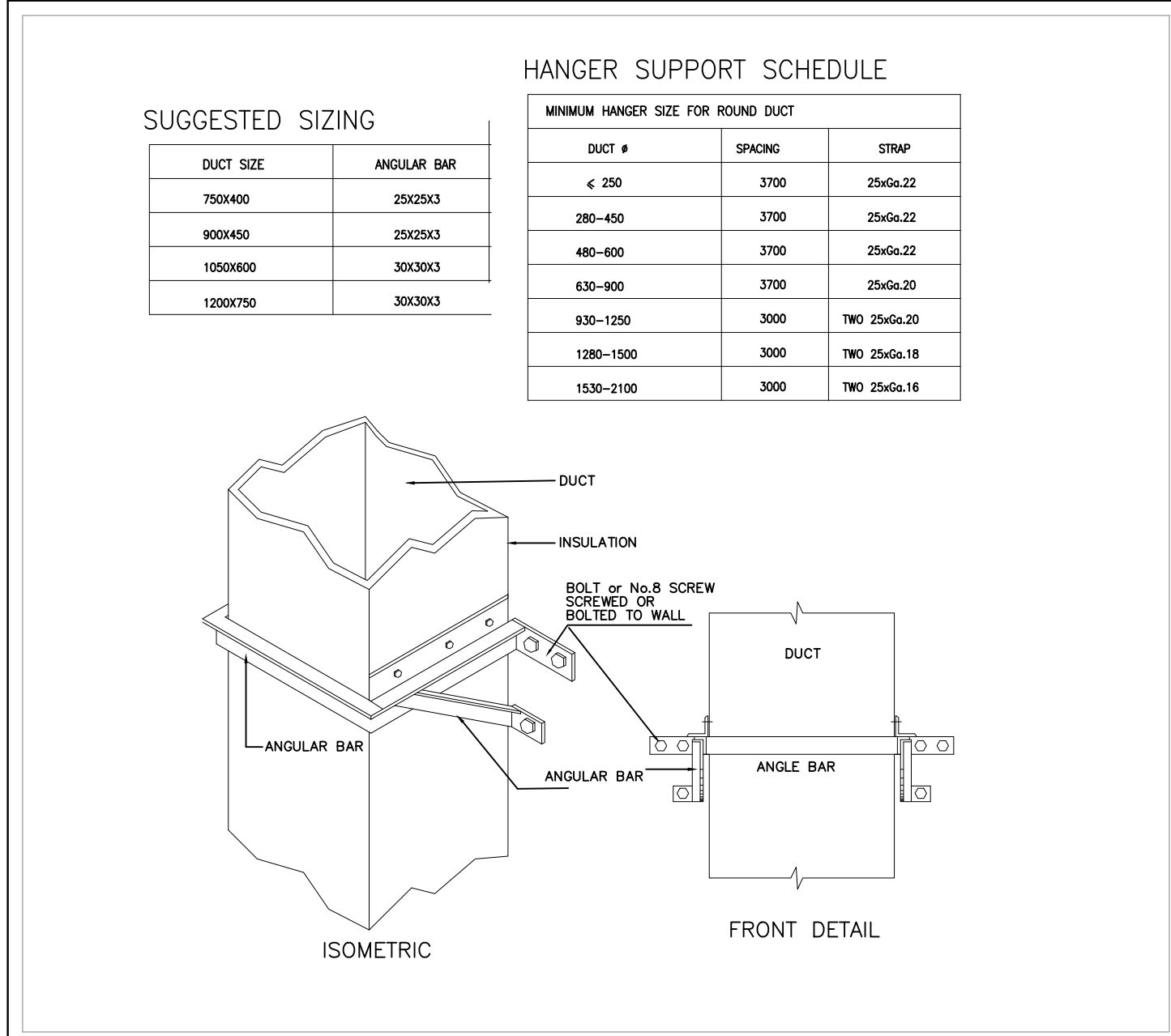
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CHECKED BY : F.N

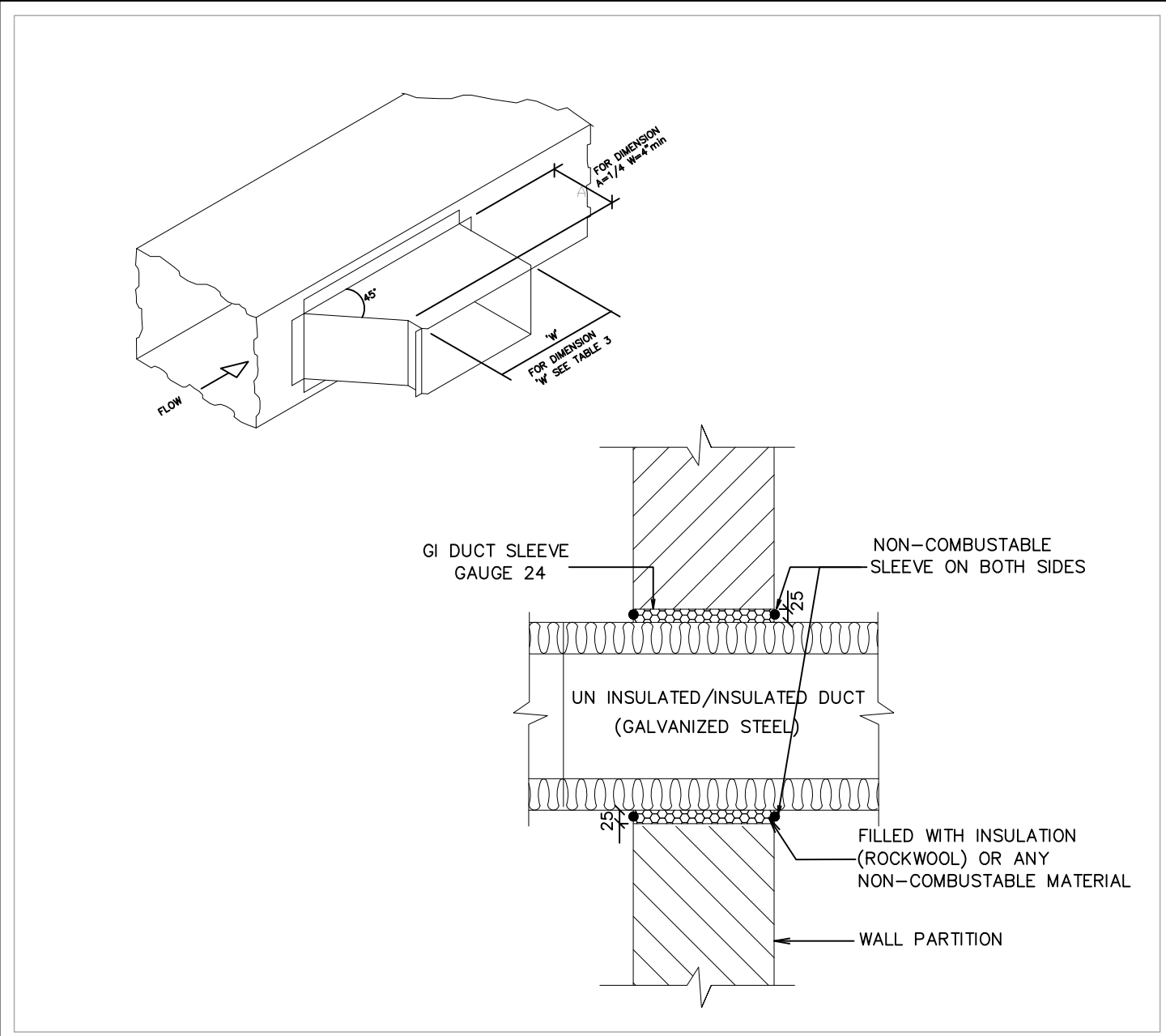
PROJECT No. DRAWING No.

APPROVED BY: F.N

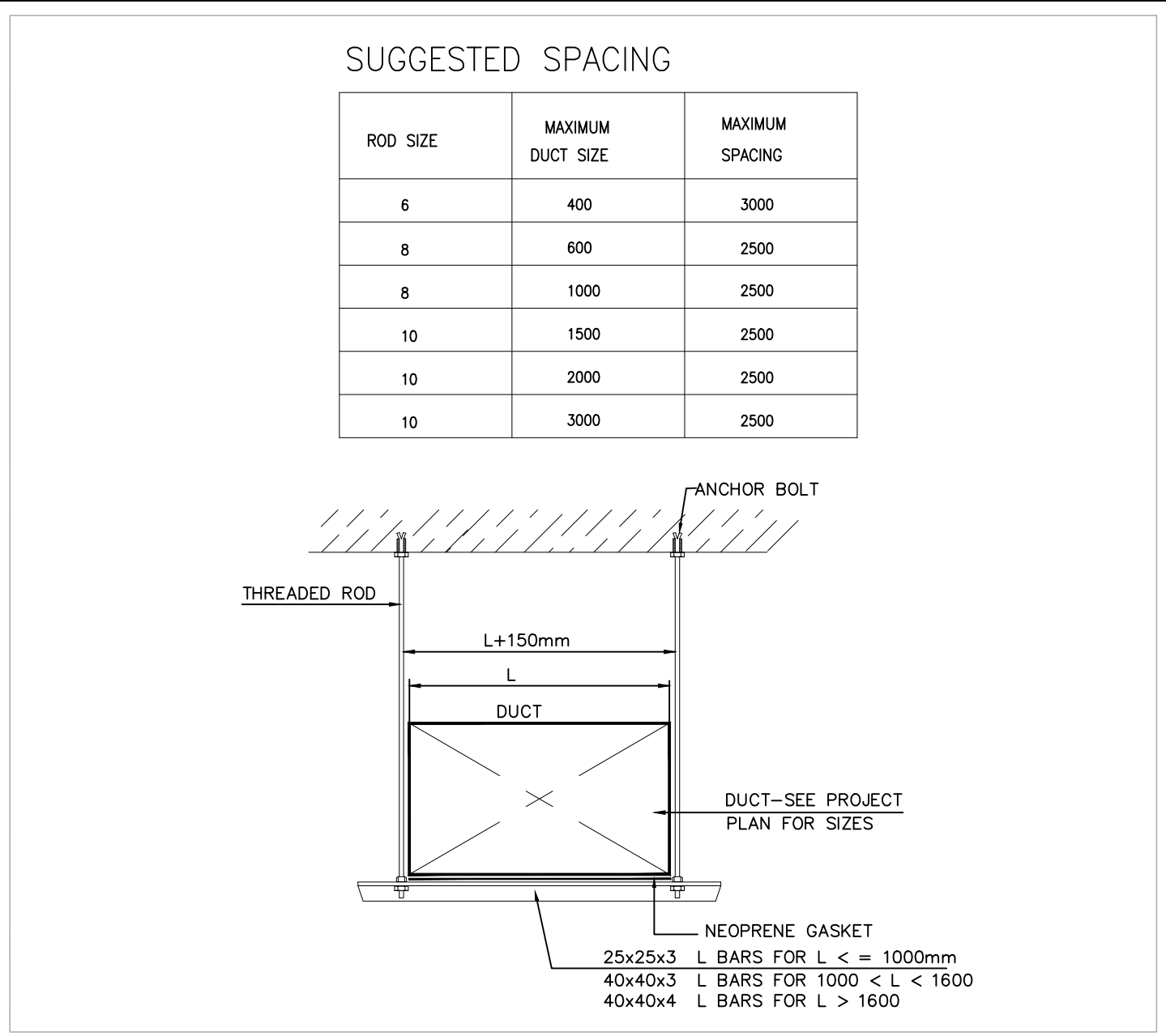
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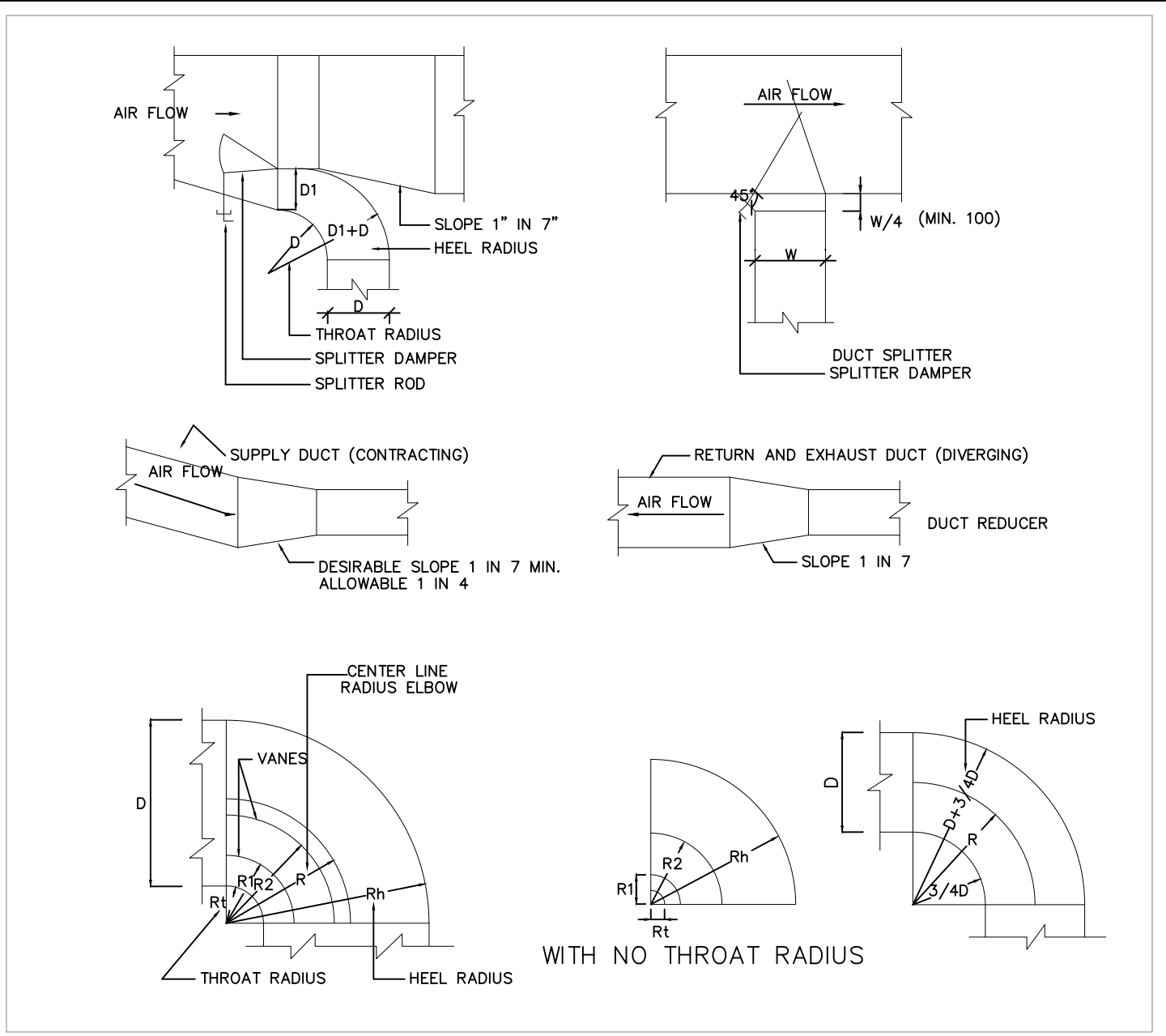
DETAIL 01
RECTANGULAR DUCT SUPPORT FROM WALL



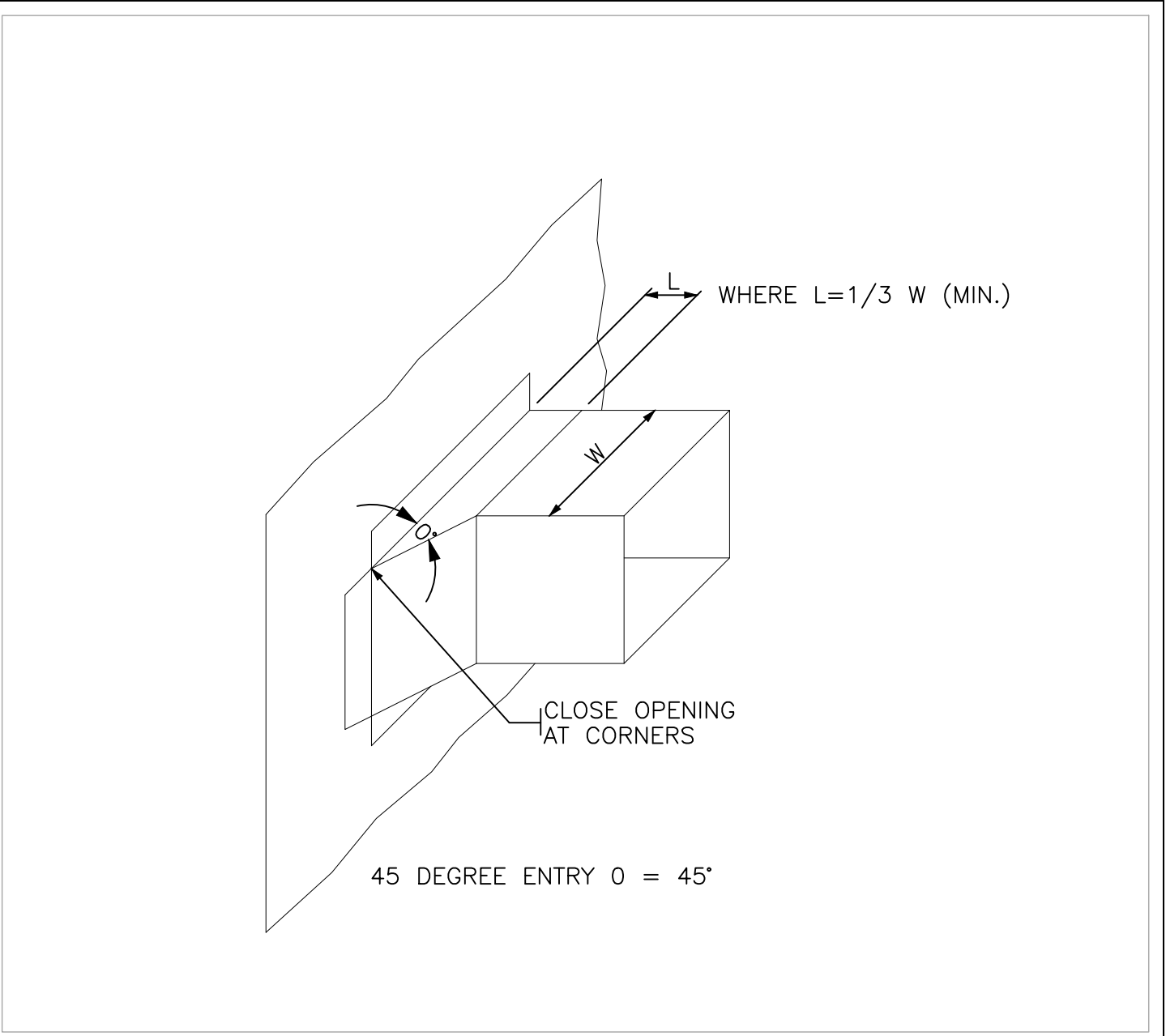
DETAIL 02
DUCT RUNNING THROUGH HOLLOW BLOCK WALL



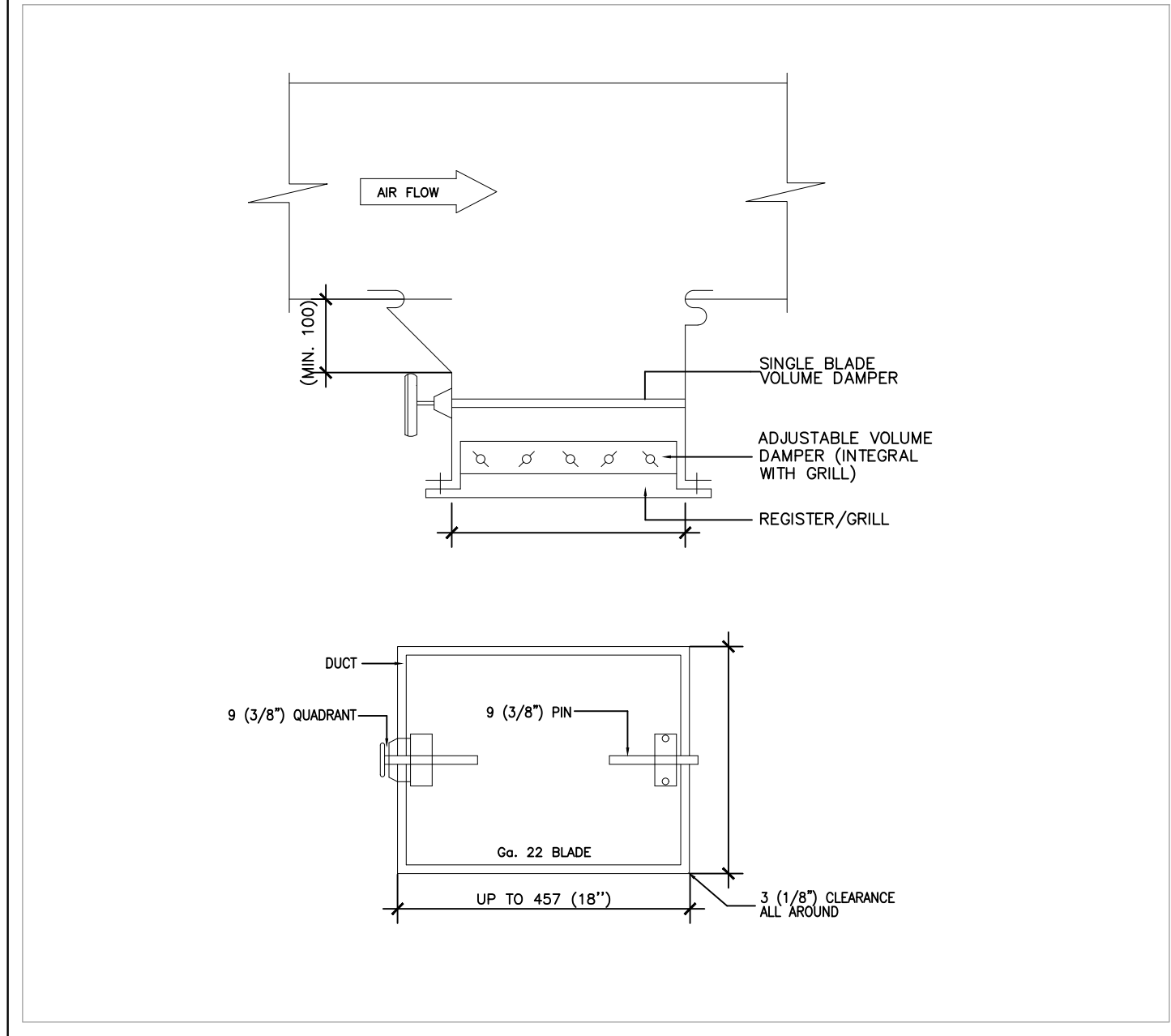
DETAIL 03
RECTANGULAR DUCT HANGER SUPPORT



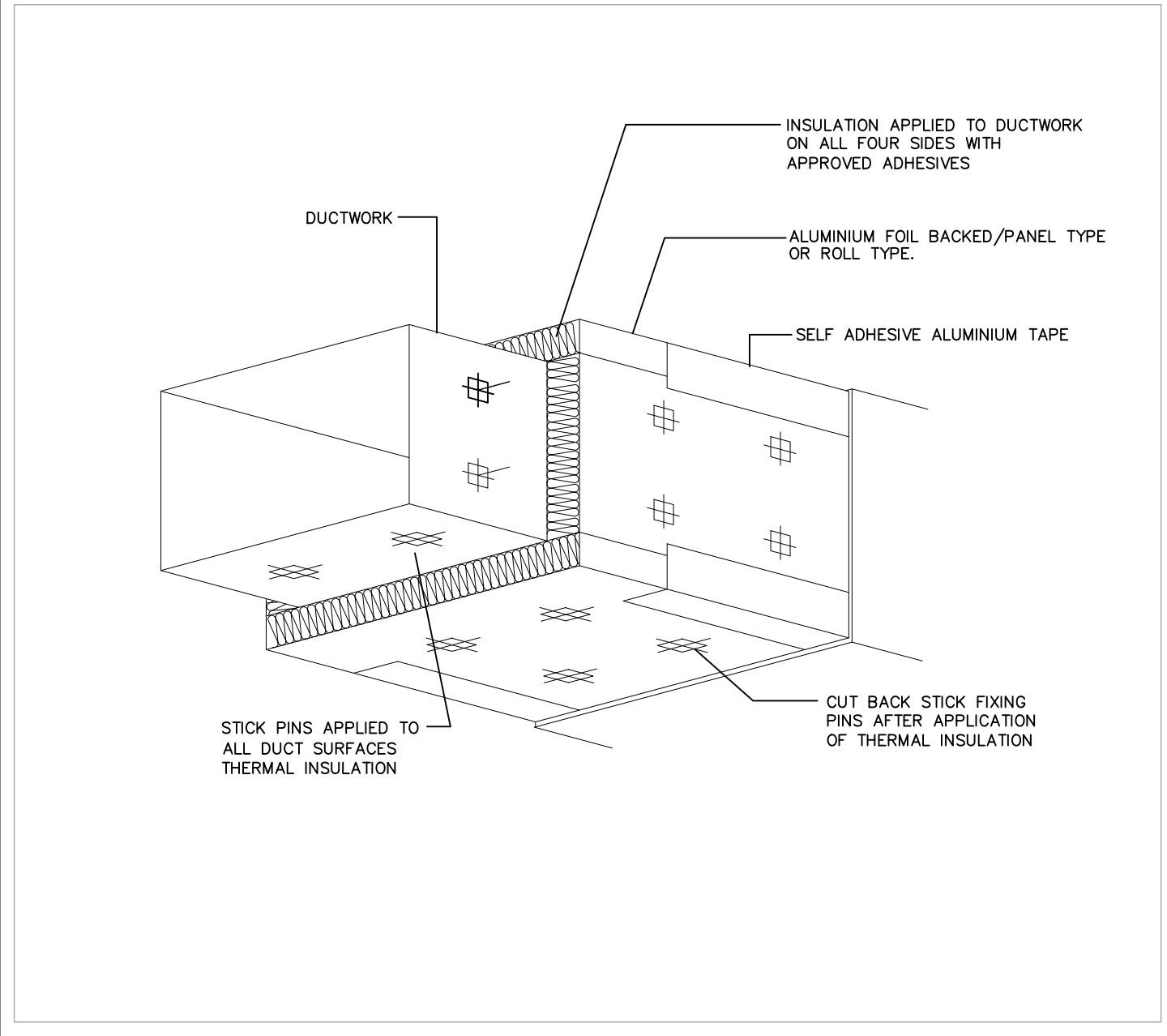
DETAIL 04
RECTANGULAR ELBOW DUCT DETAILS



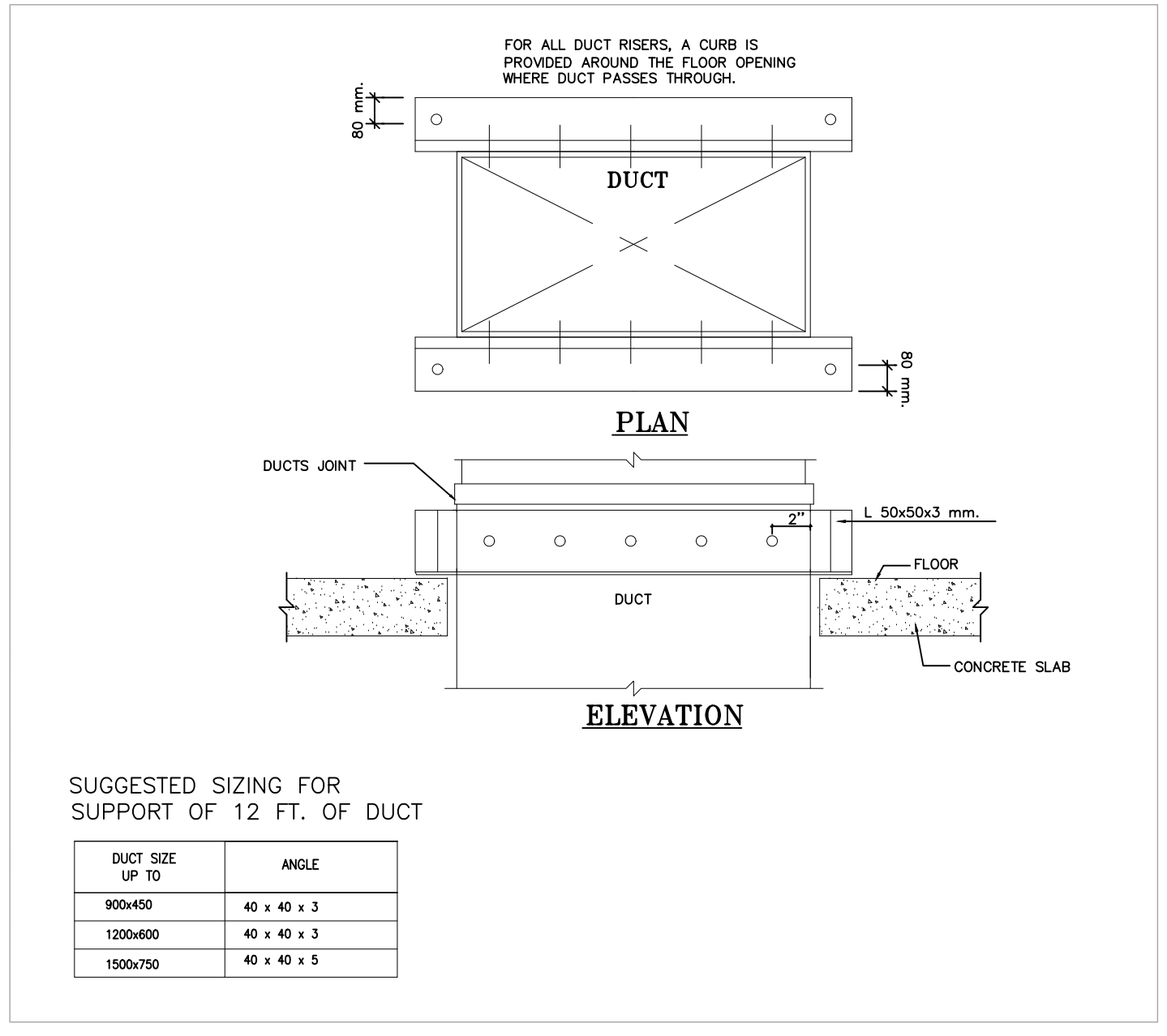
DETAIL 05
BRANCH CONNECTION DETAIL



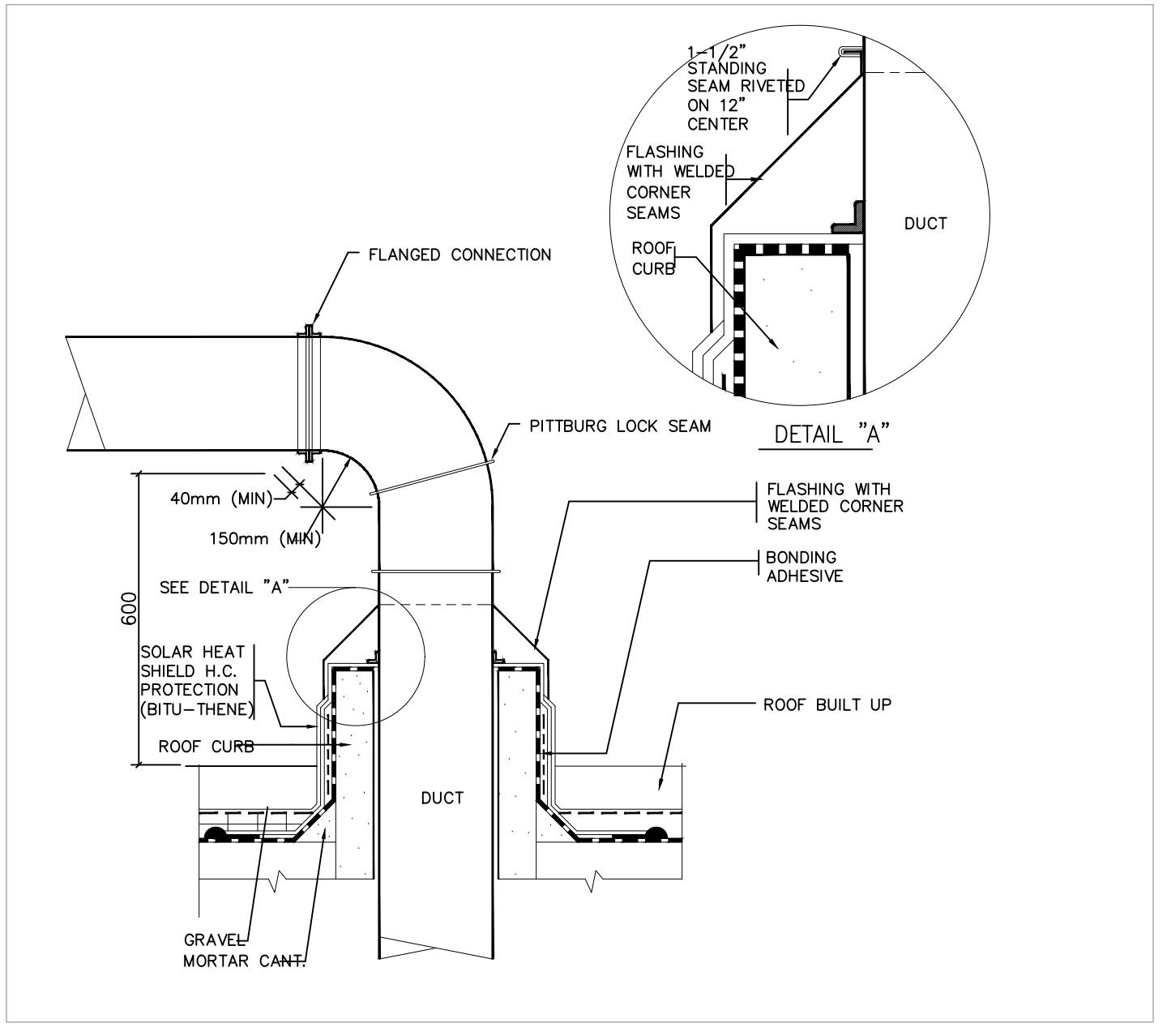
DETAIL 06
SINGLE BLADE VOLUME DAMPER



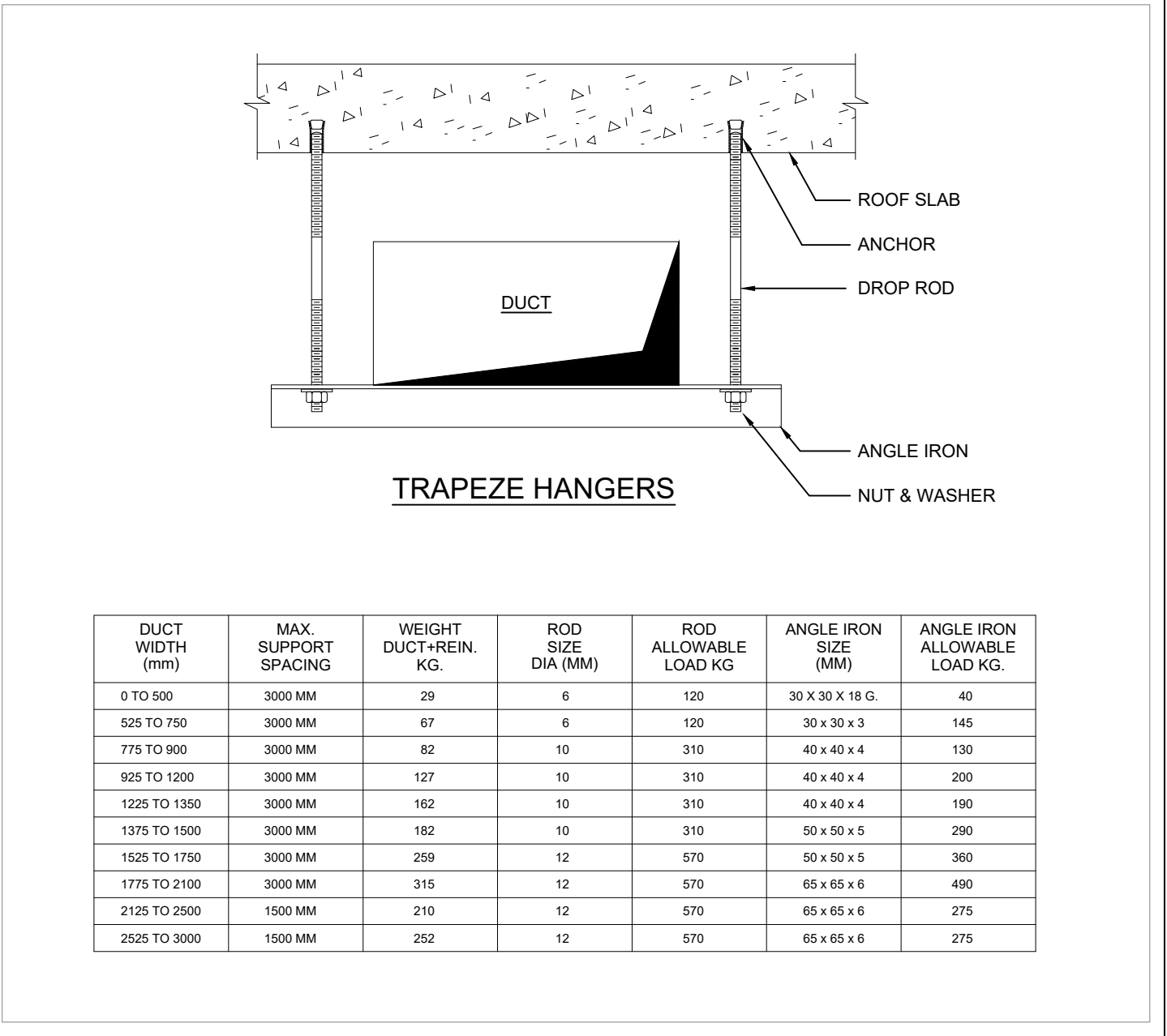
DETAIL 07
EXTERNAL INSULATION TO RECTANGULAR DUCT



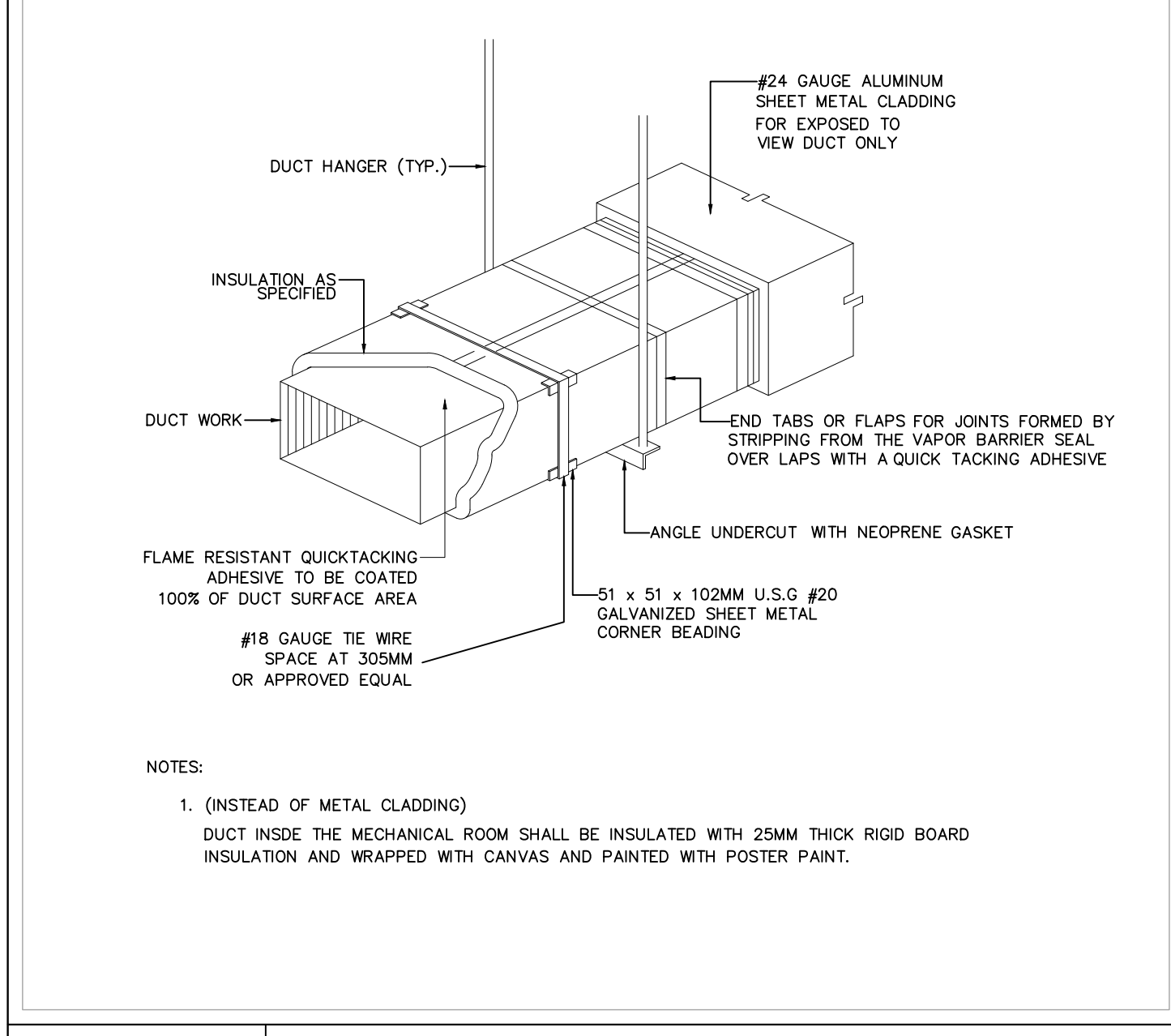
DETAIL 08
DUCT RISER SUPPORT



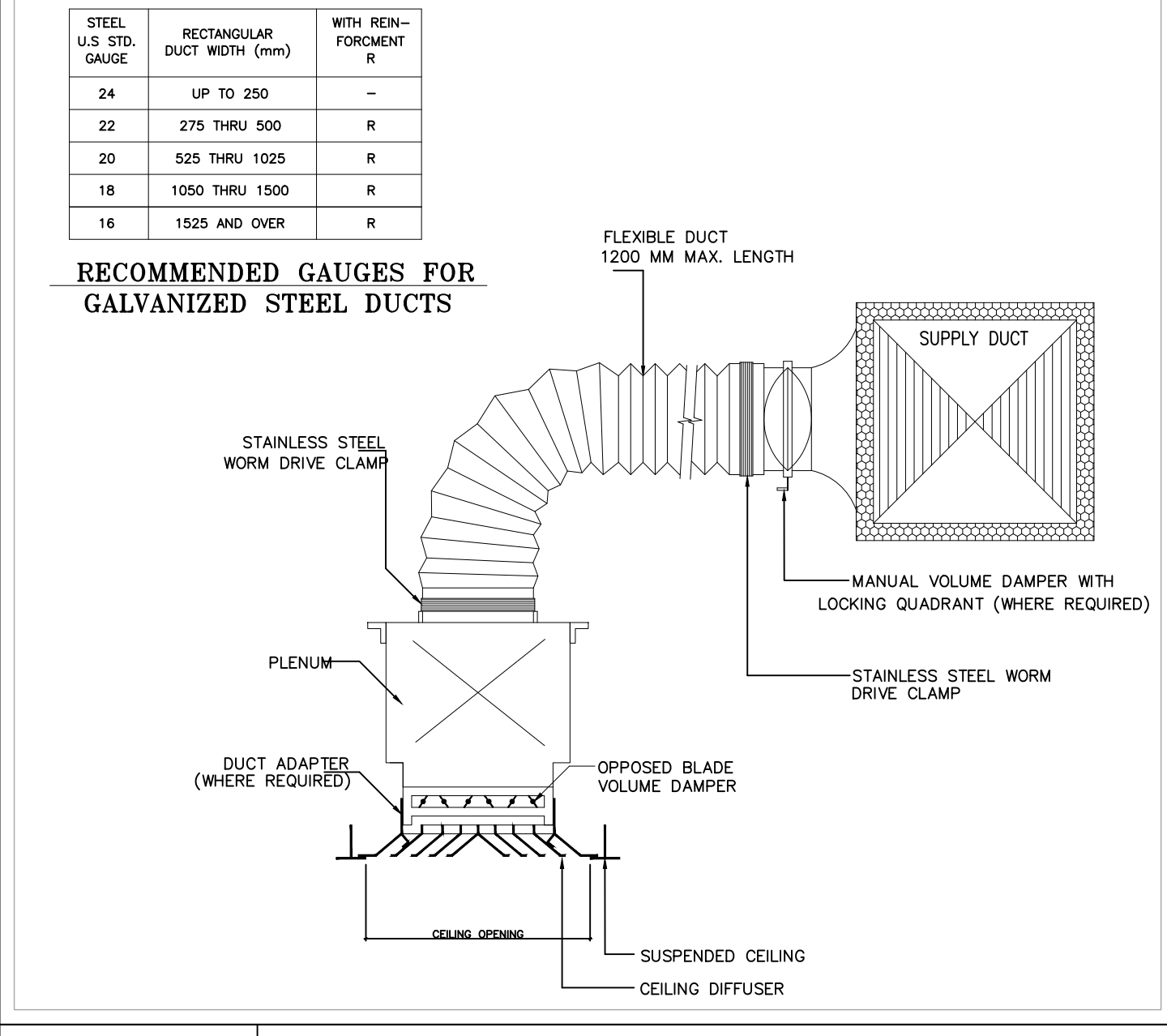
DETAIL 09
SUPPLY/RETURN DUCT PENETRATION THRU ROOF DETAIL



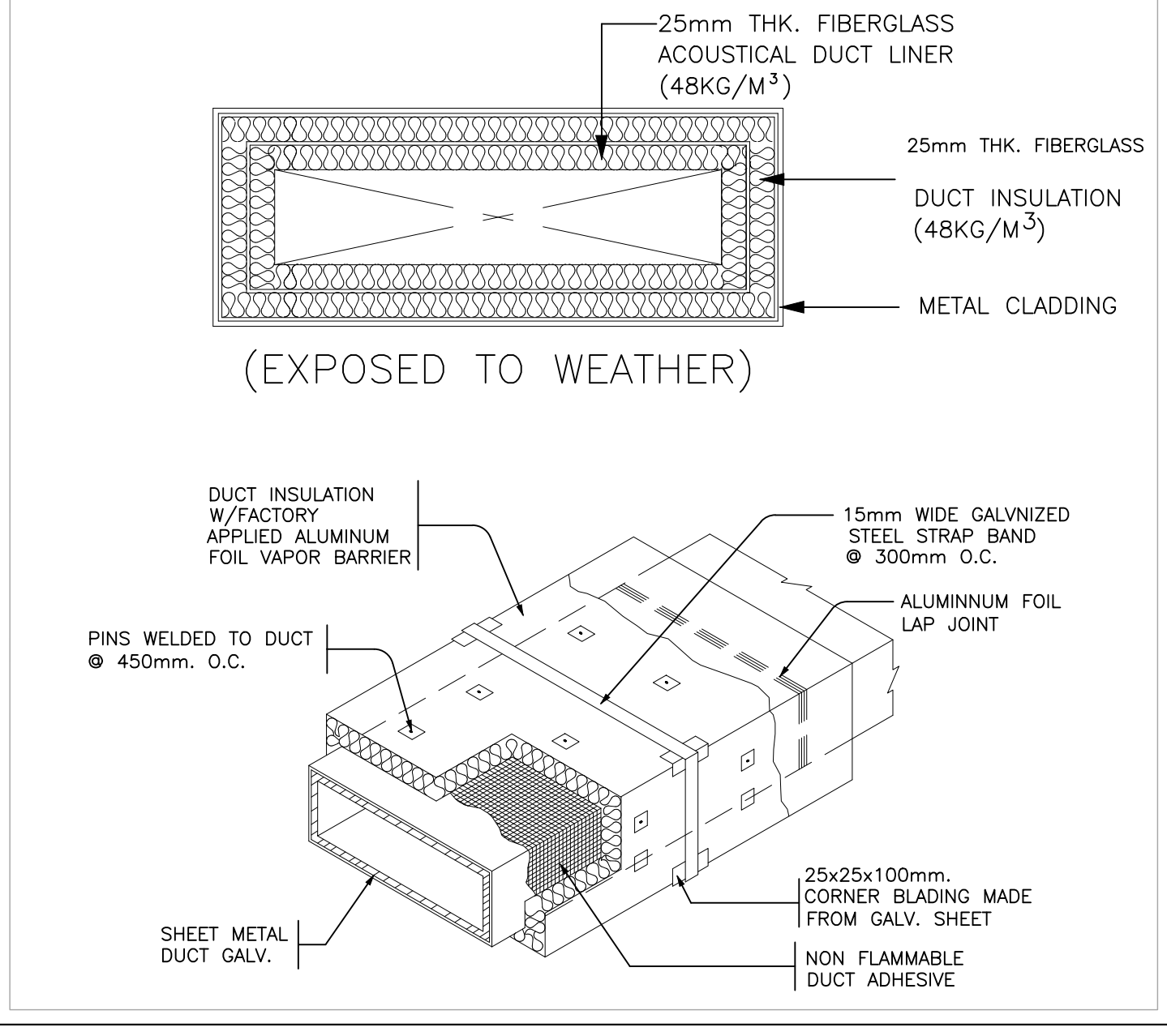
DETAIL 10
DUCT SUPPORTS



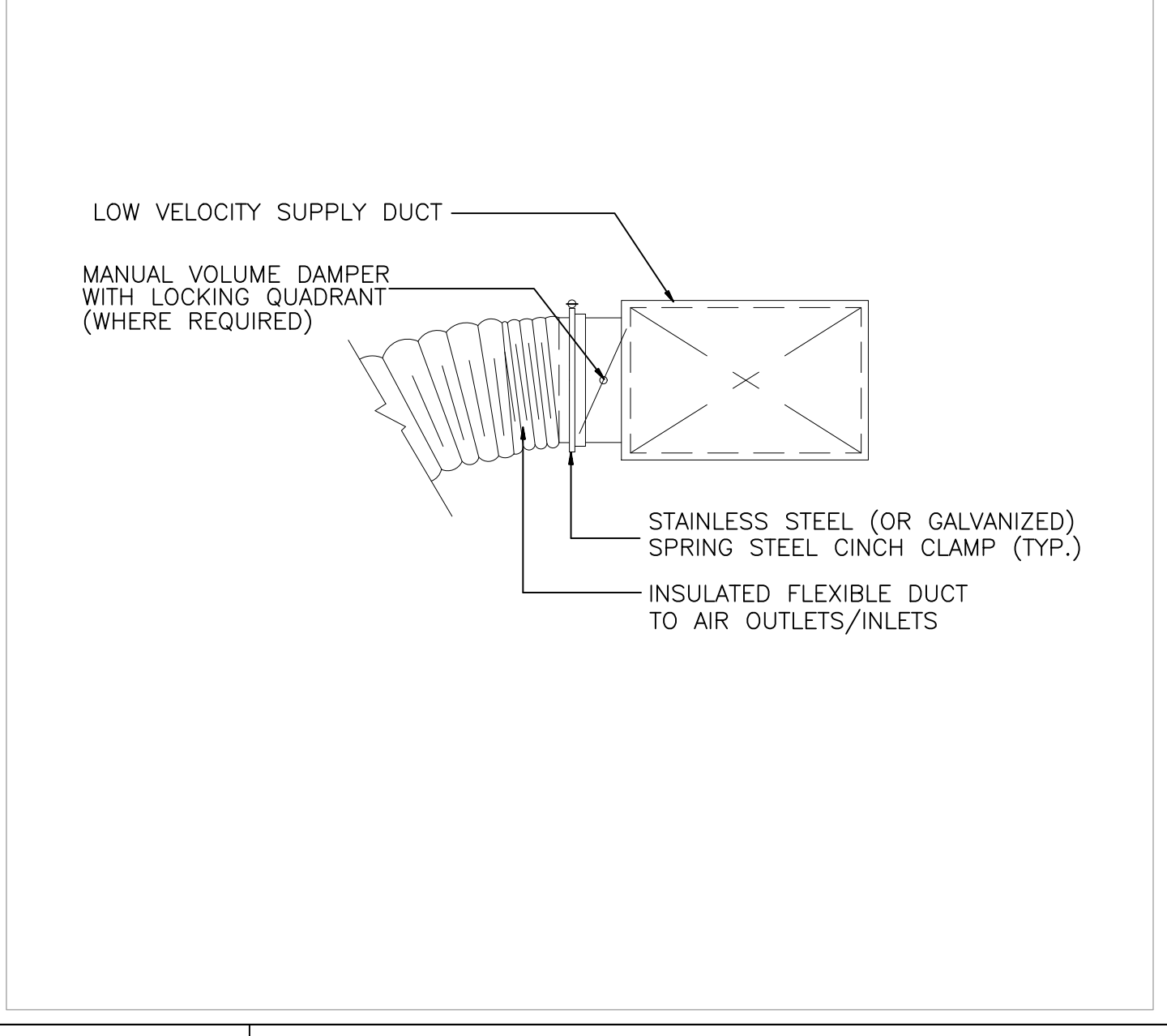
DETAIL 11
INDOOR DUCT INSULATION AND HANGER



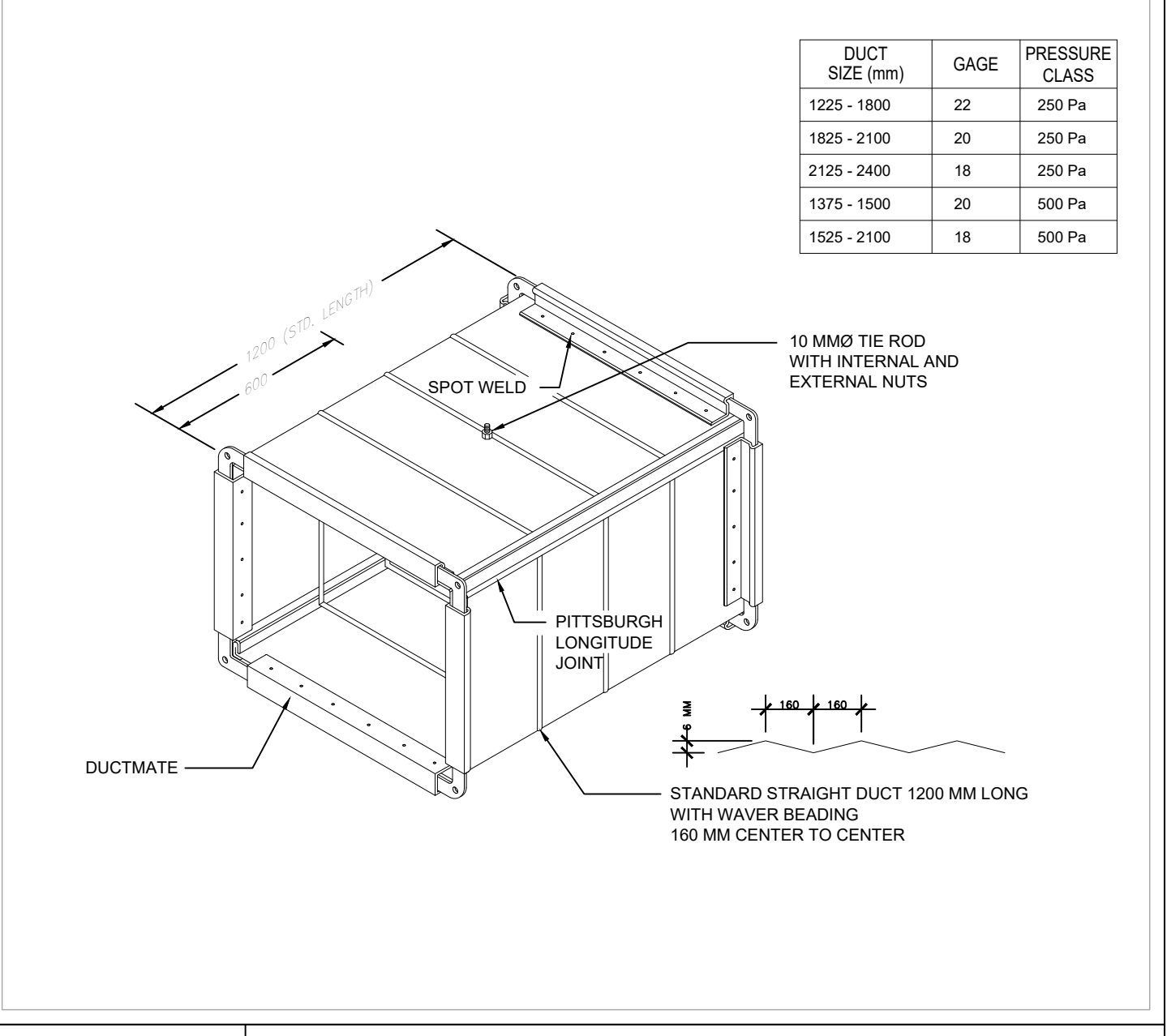
DETAIL 12
SQUARE SUPPLY CEILING DIFFUSER



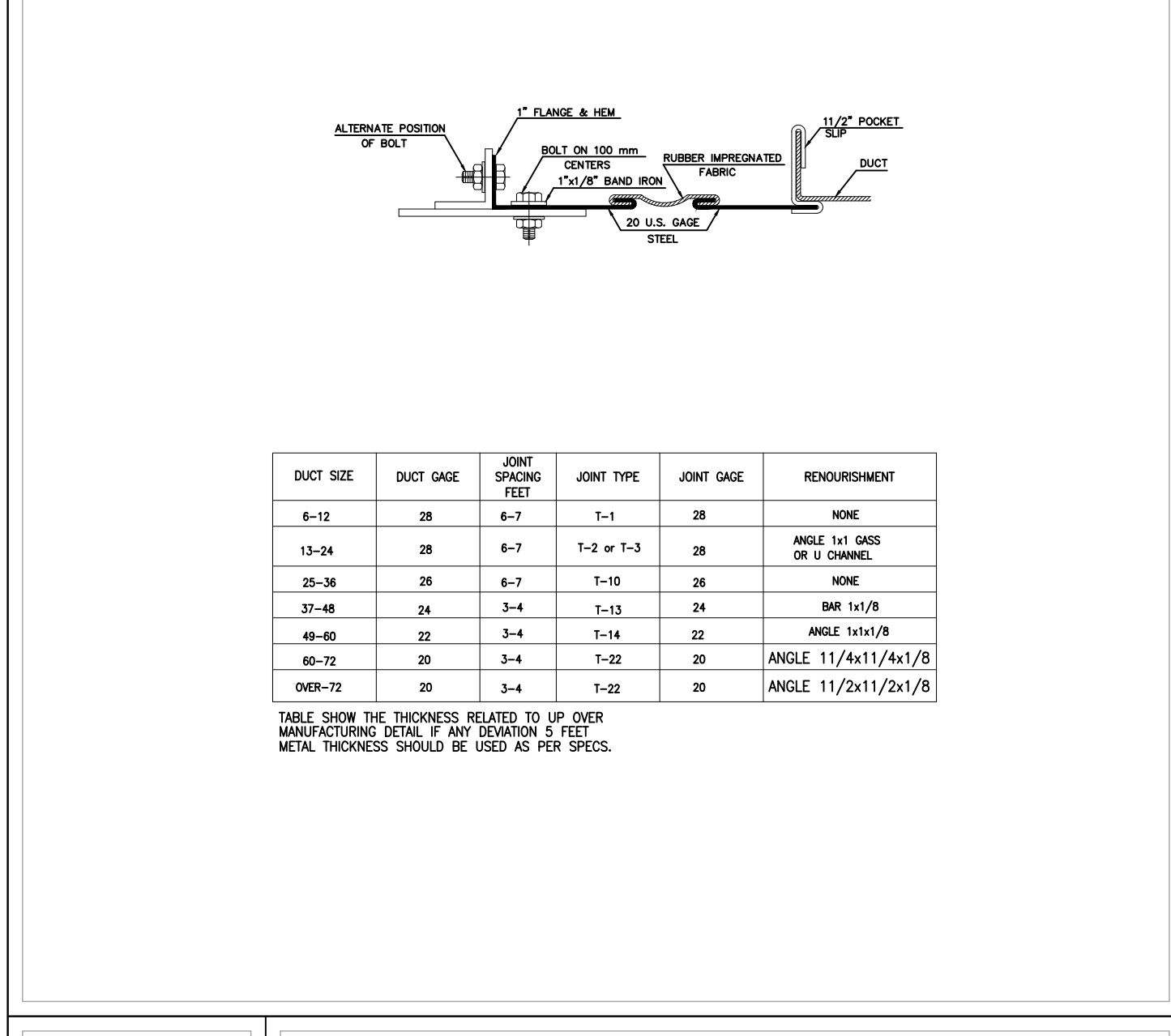
DETAIL 13
DUCT INSULATION DETAIL



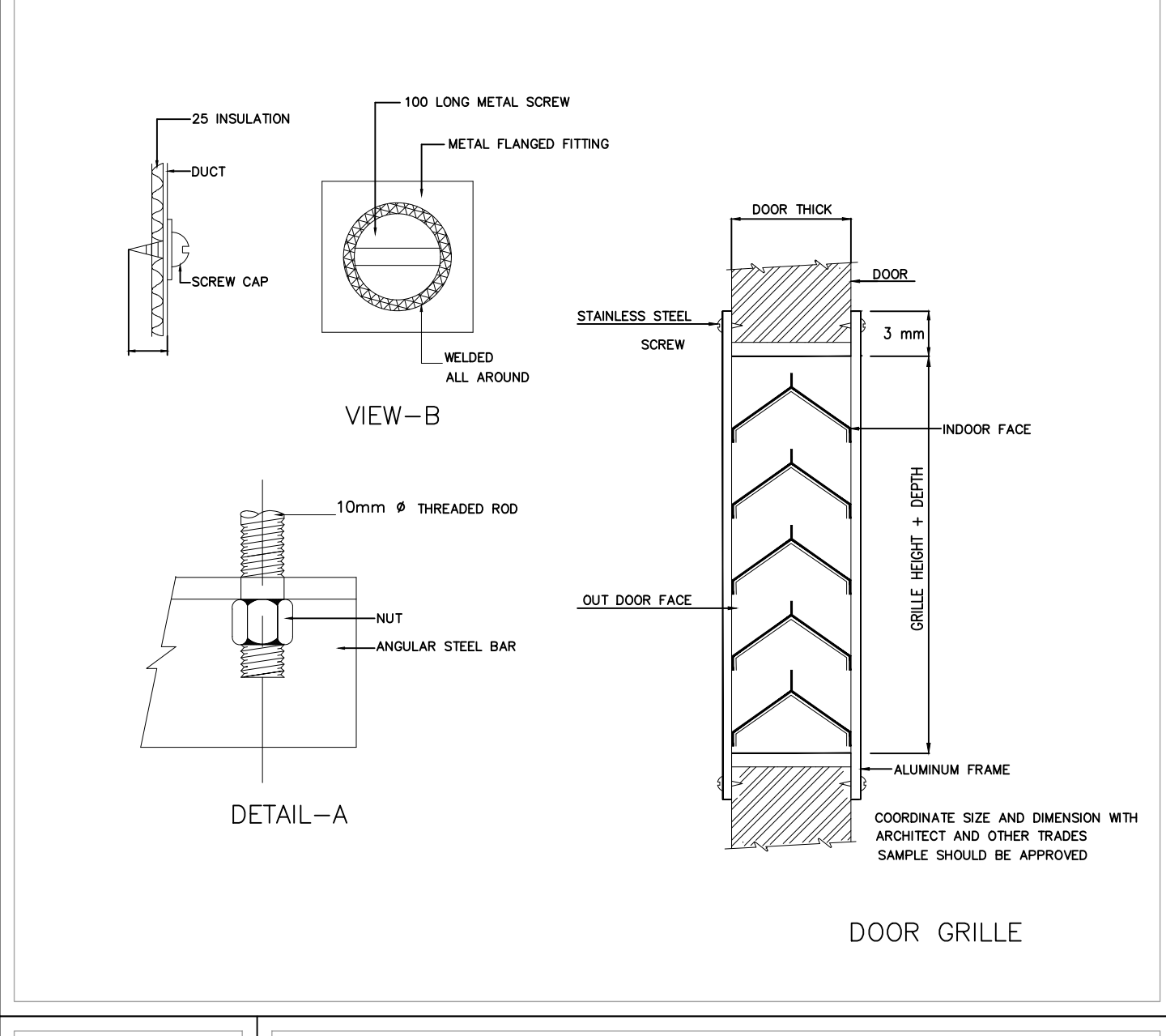
DETAIL 14
INSULATED FLEXIBLE DUCT INSTALLATION DETAIL



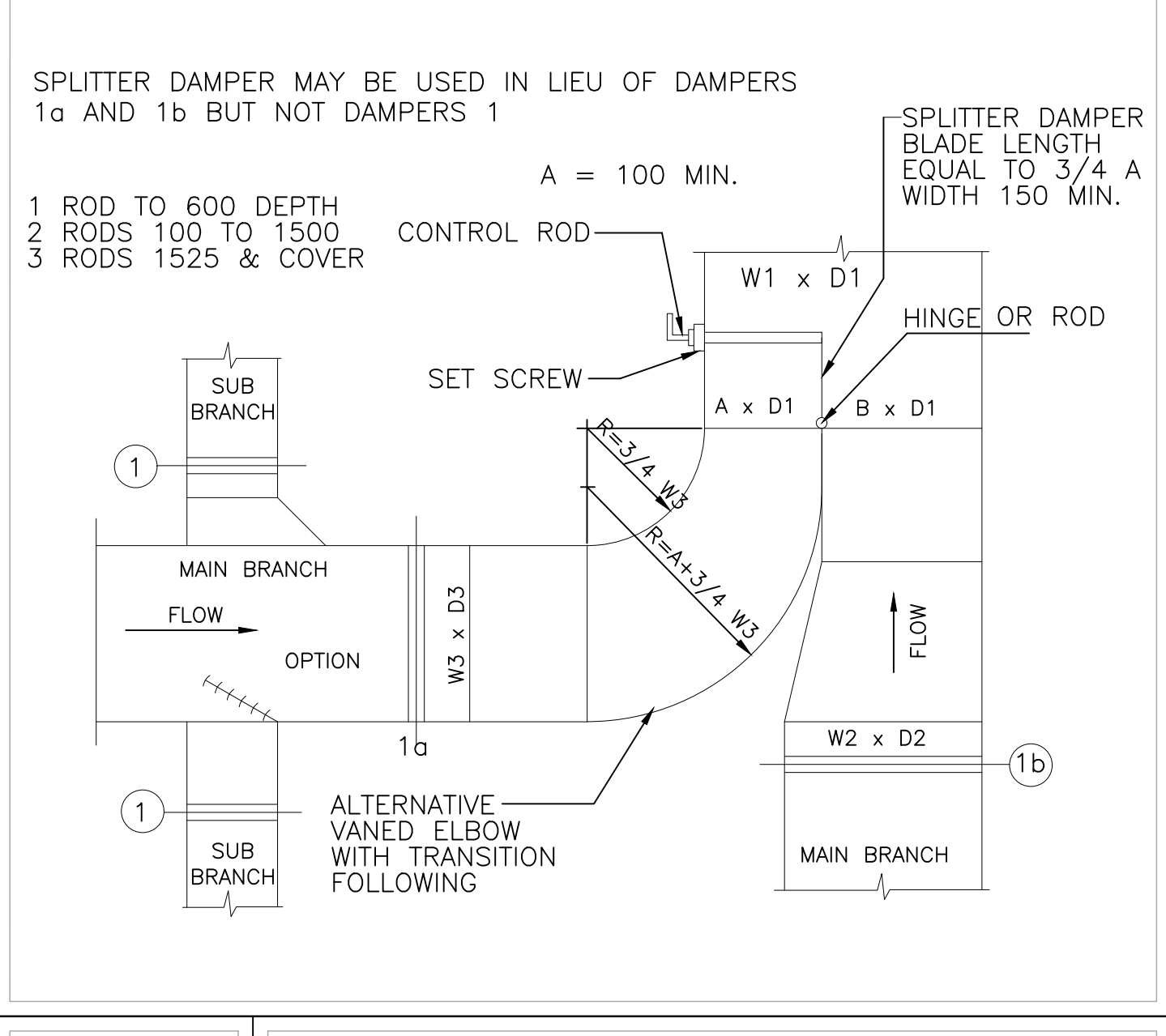
DETAIL 15
DUCT CONSTRUCTION



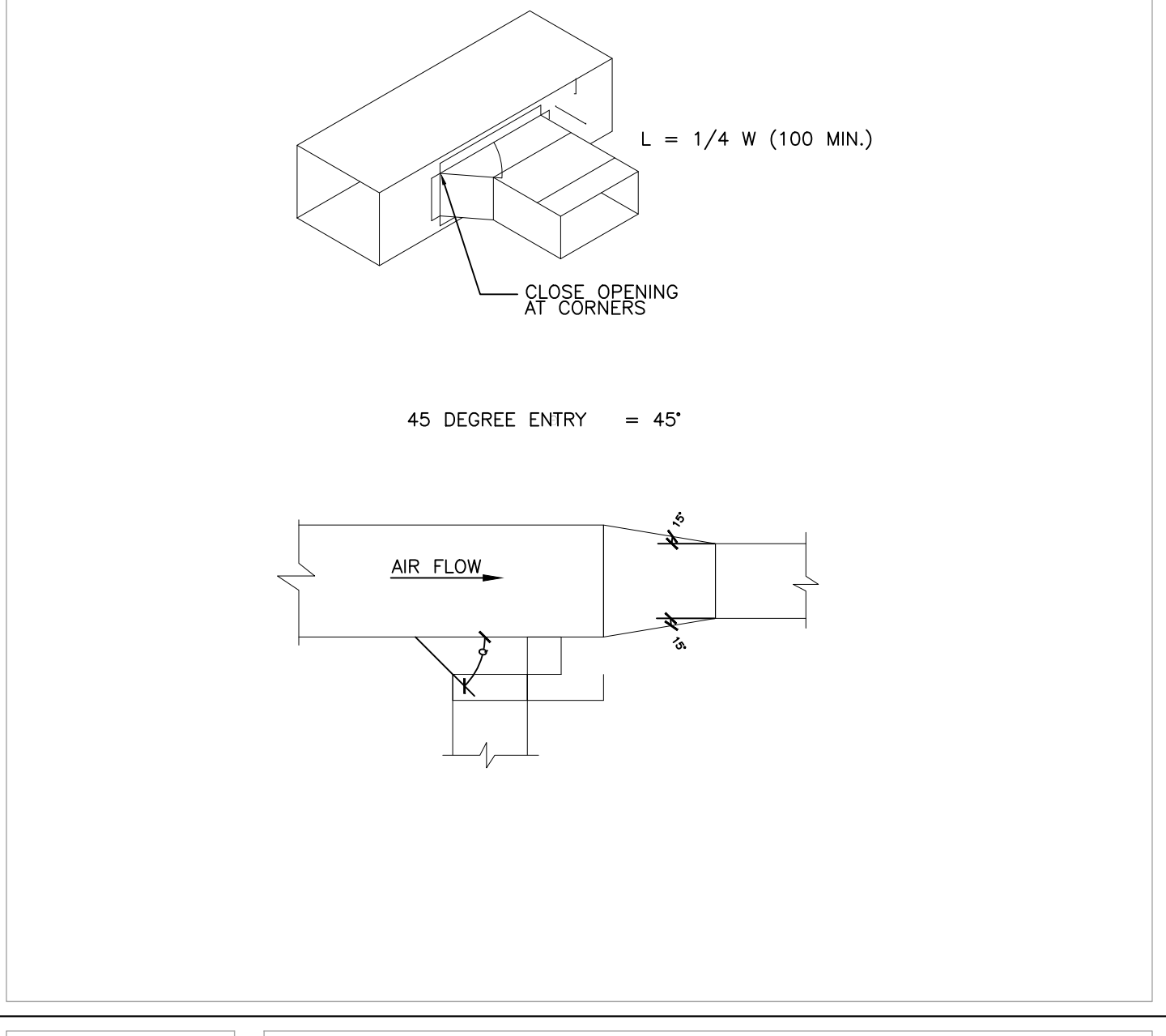
DETAIL 16
RECTANGULAR-FLEXIBLE CONNECTION DUCT TRANSVERSE JOINTS



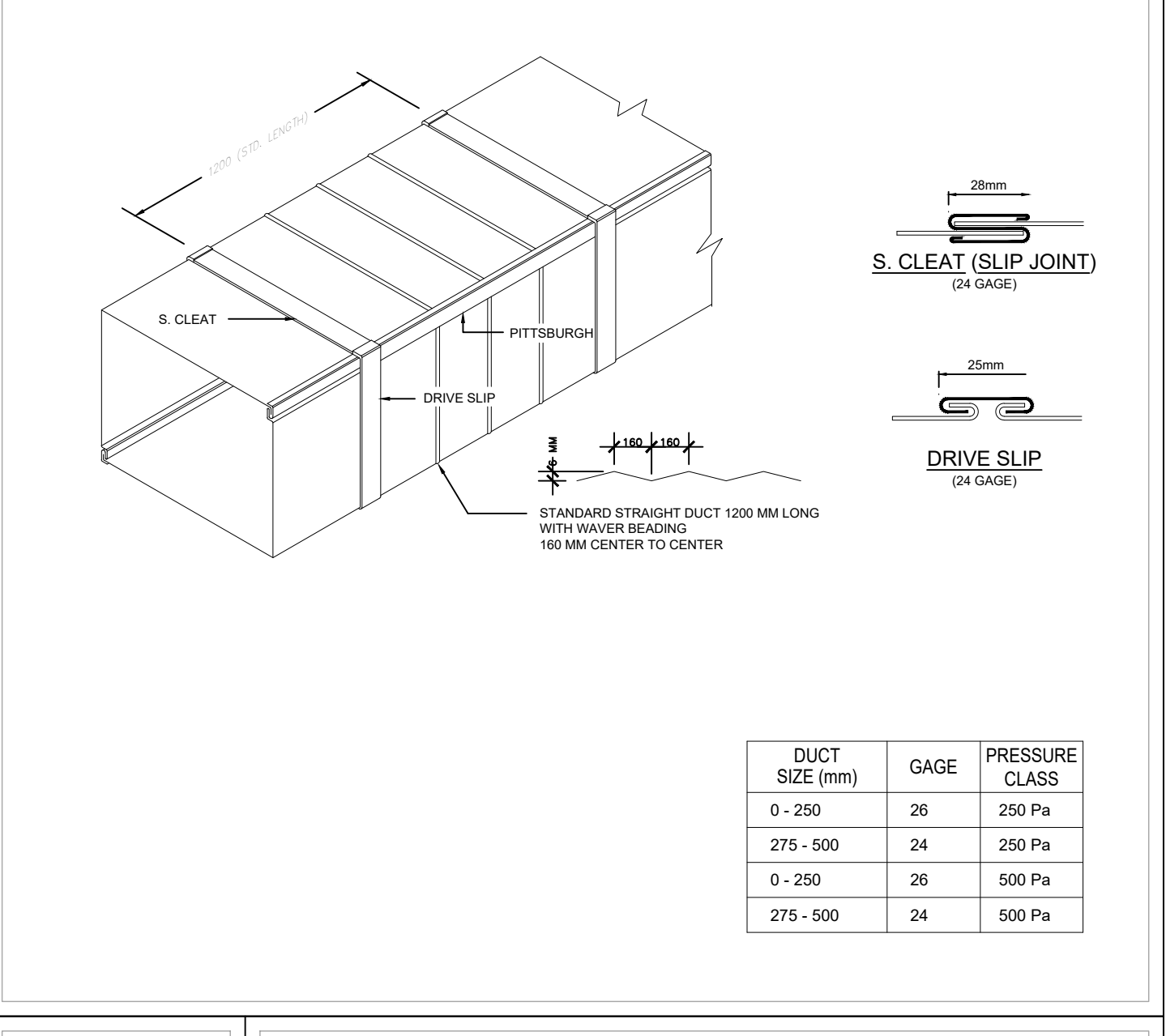
DETAIL 17
DUCT TEST HOLE DETAIL



DETAIL 18
TYPICAL SUPPLY DUCT



DETAIL 19
BRANCH & REDUCER



DETAIL 20
DUCT CONSTRUCTION

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

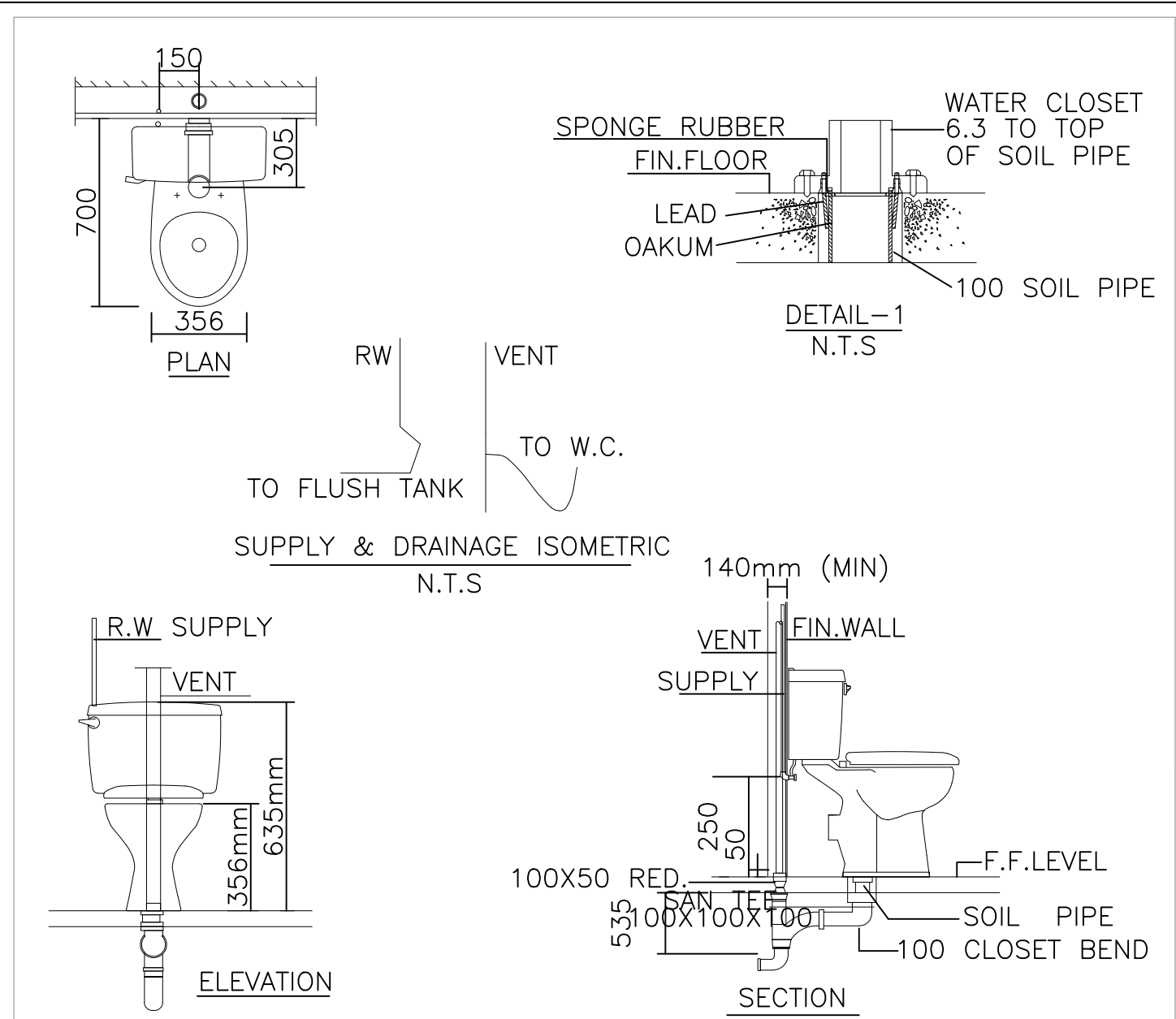
DRG. TITLE MECHANICAL DETAILS 01

DRAWN BY : MECH.T SCALE: NTS

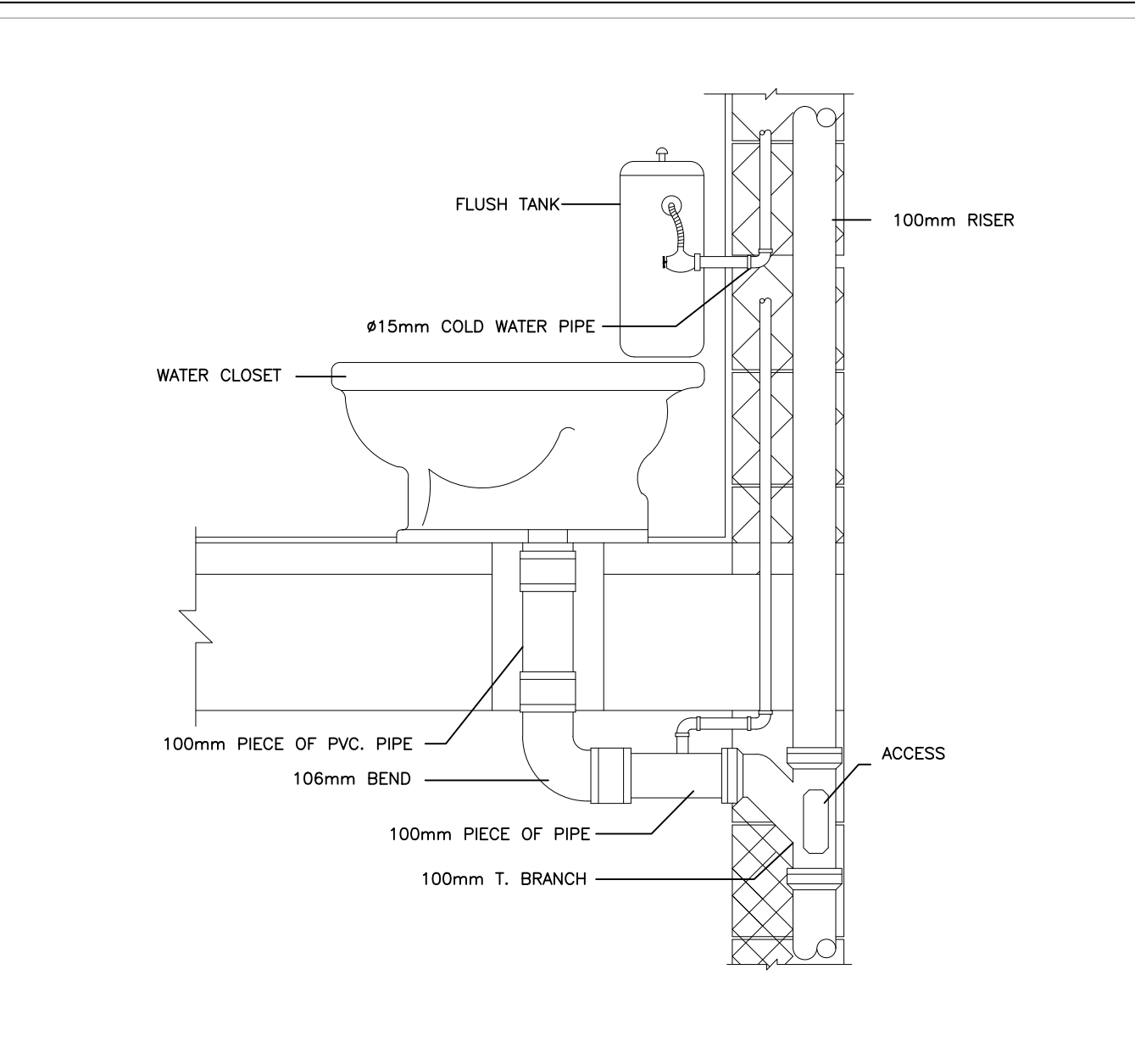
DESIGNED BY : A.Q DATE : DEC.-2023

CHECKED BY : F.N PROJECT No. DRAWING No.

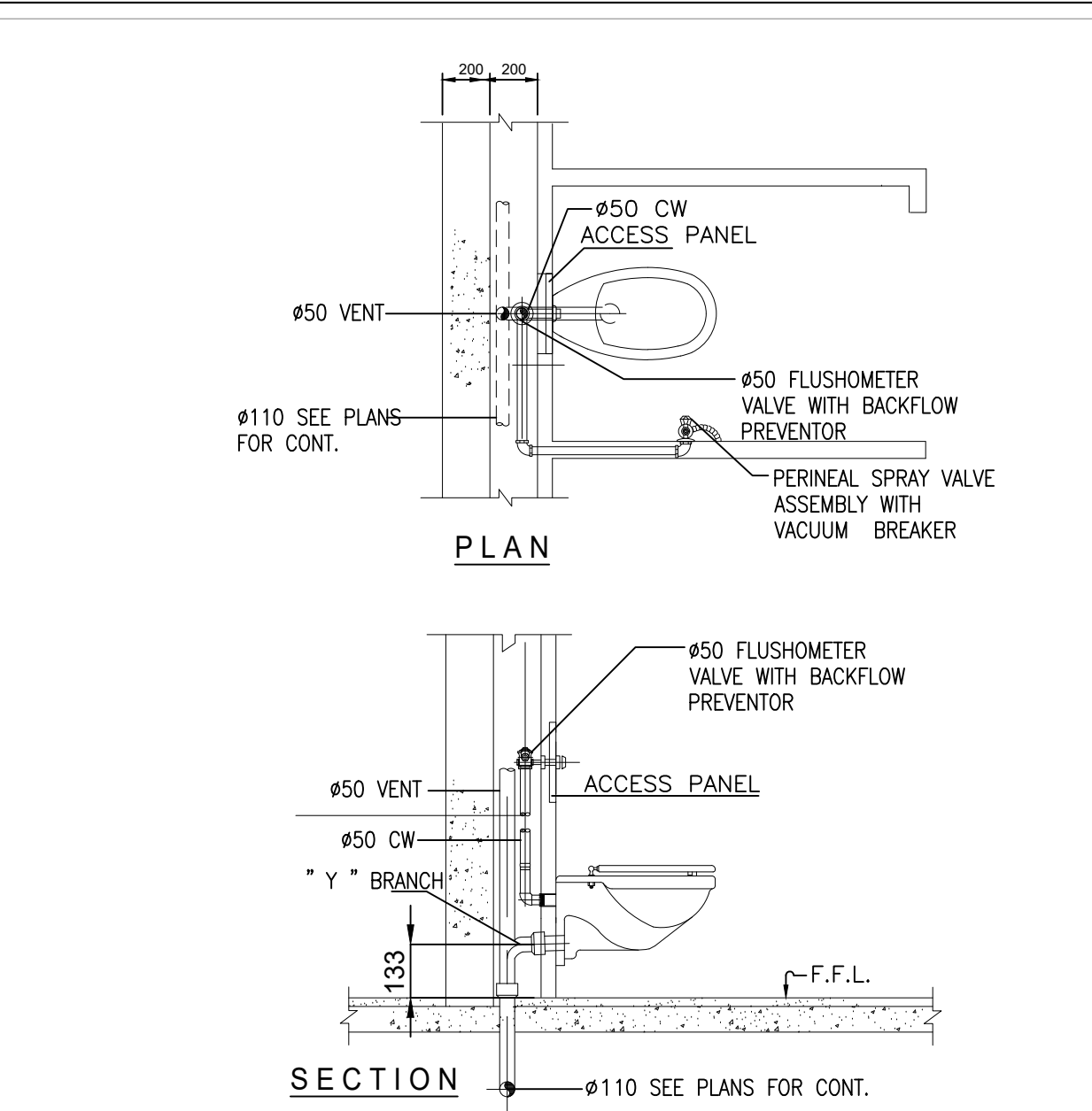
APPROVED BY: F.N M-1100



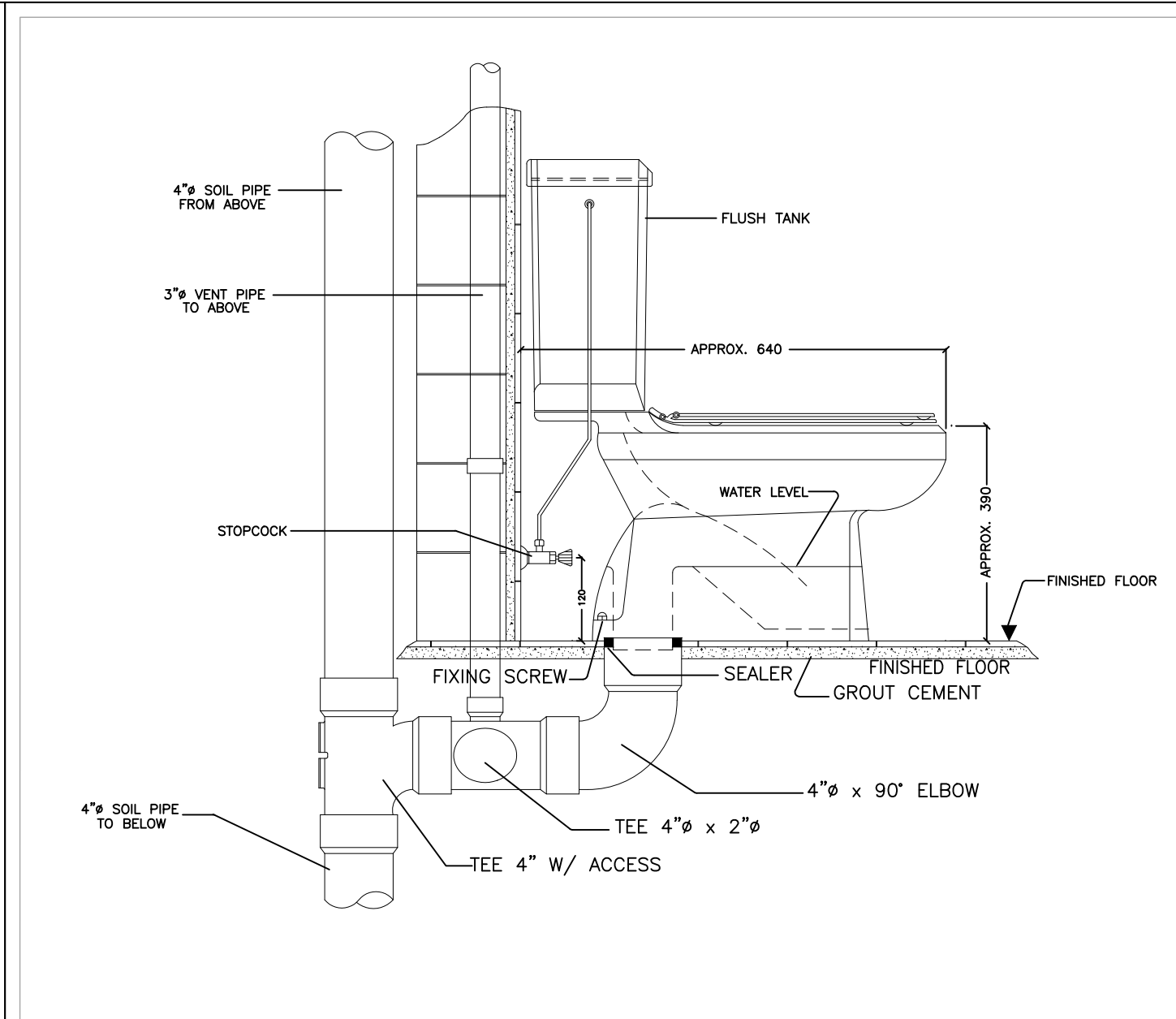
DETAIL 01 WESTERN WATER CLOSET (FLUSH TANK) DETAIL



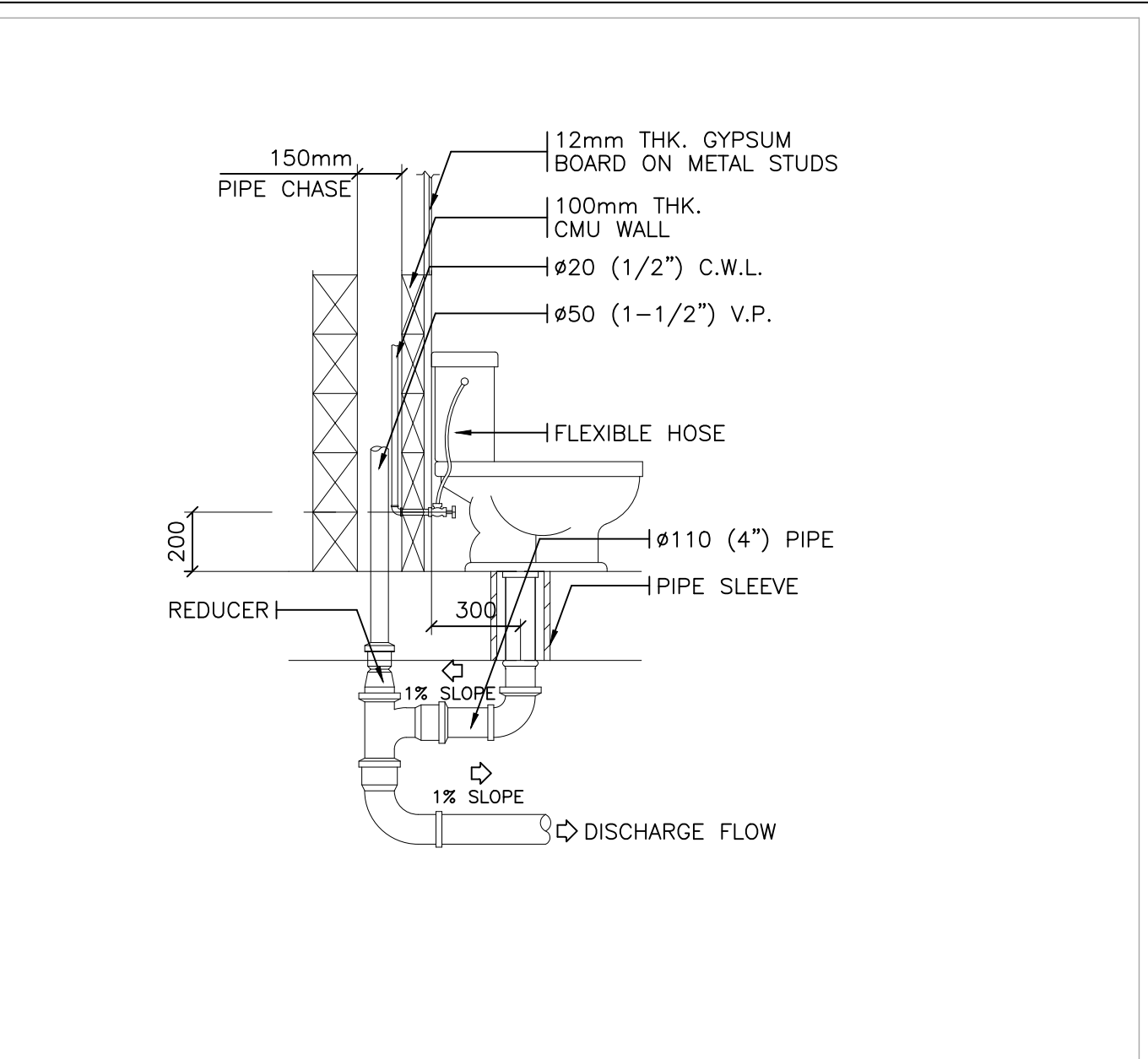
DETAIL 02 WESTERN WATER CLOSET DETAILS



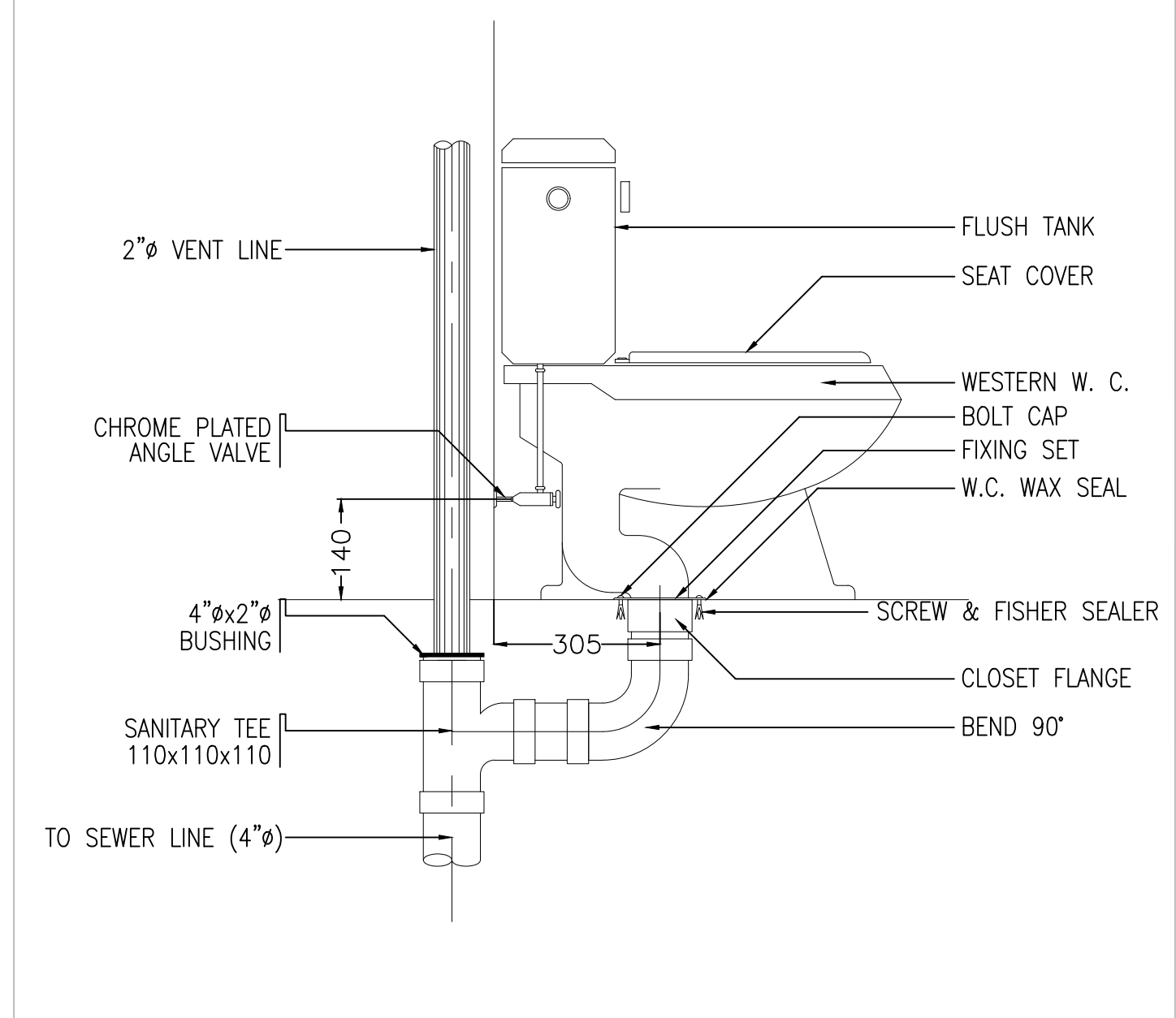
DETAIL 03 WESTERN WATER CLOSET (FLUSH VALVE) DETAIL



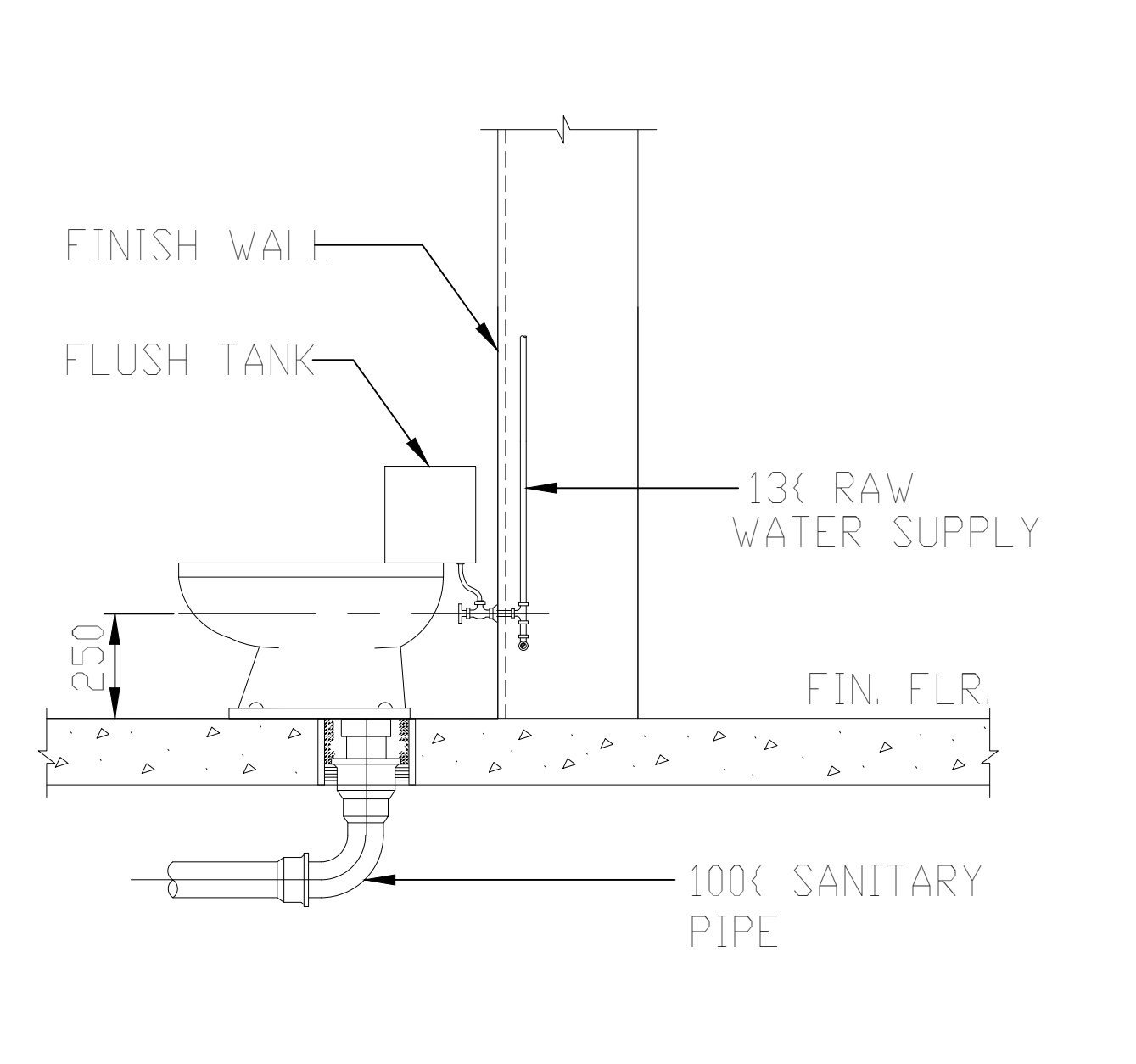
DETAIL 04 WATER CLOSET INSTALLATION DETAIL



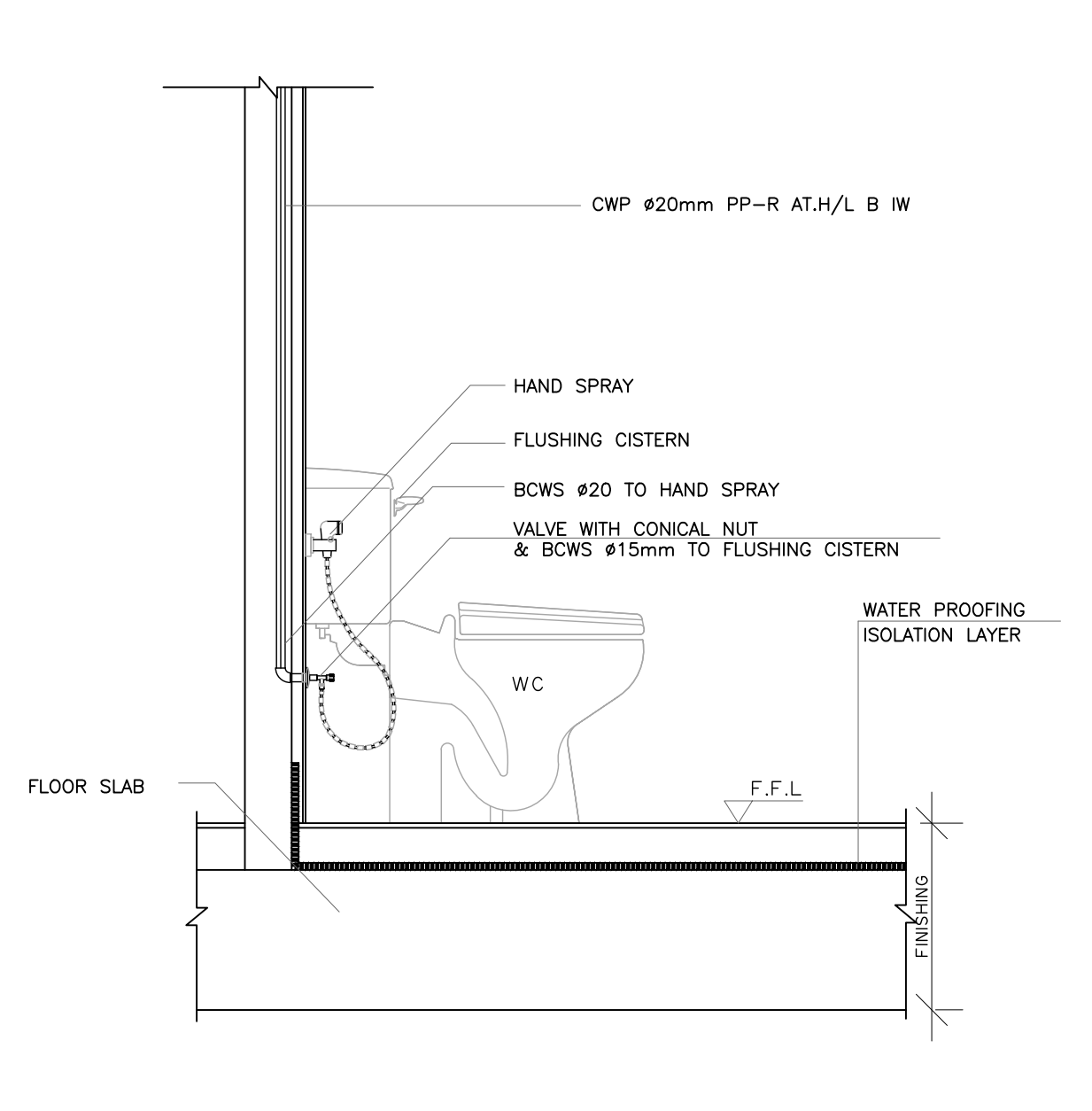
DETAIL 05 WATER CLOSET PIPING INSTALLATION DETAIL



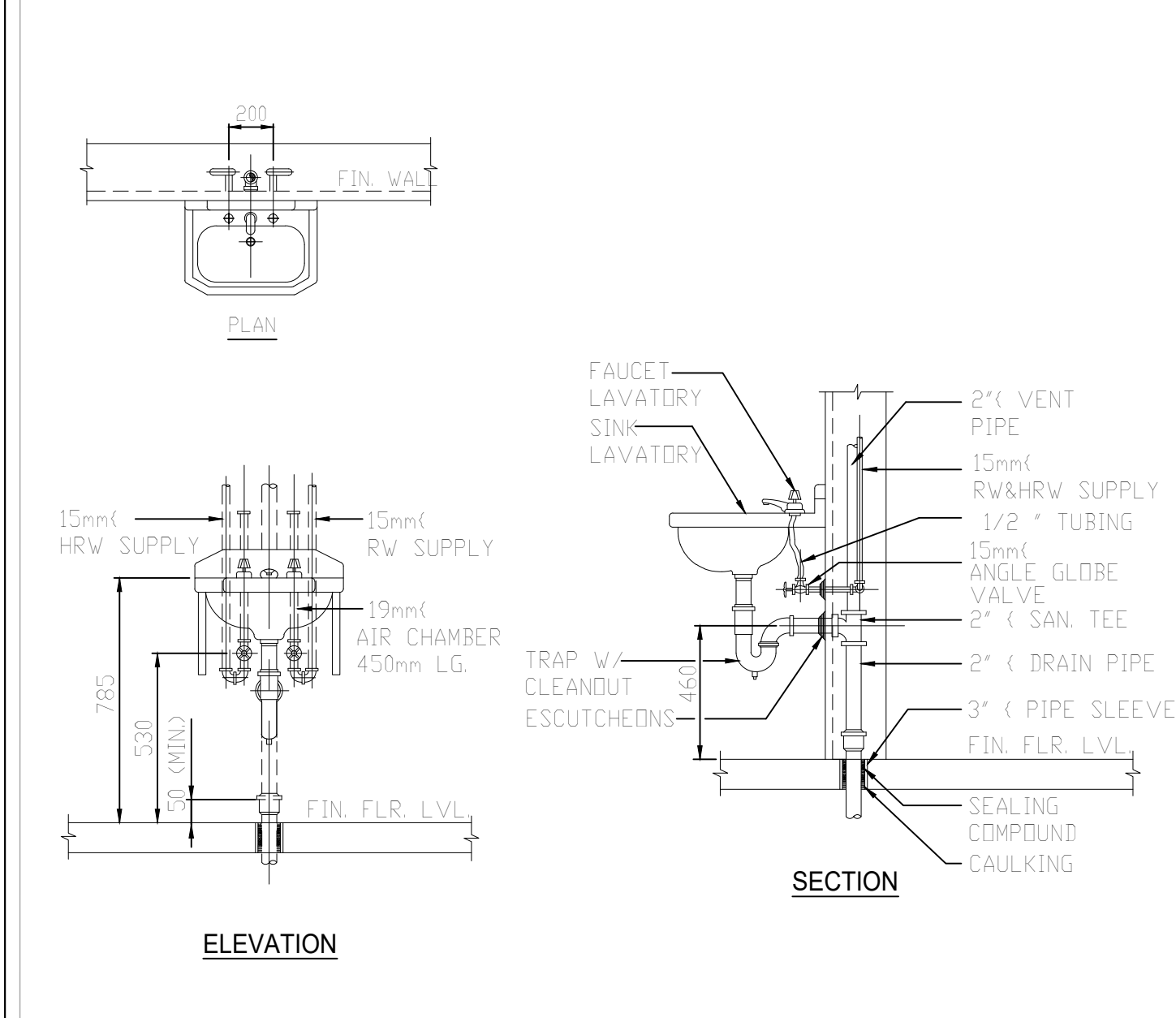
DETAIL 06 WESTERN W.C. (FLOOR MOUNTED) DRAINAGE INSTALLATION DETAIL



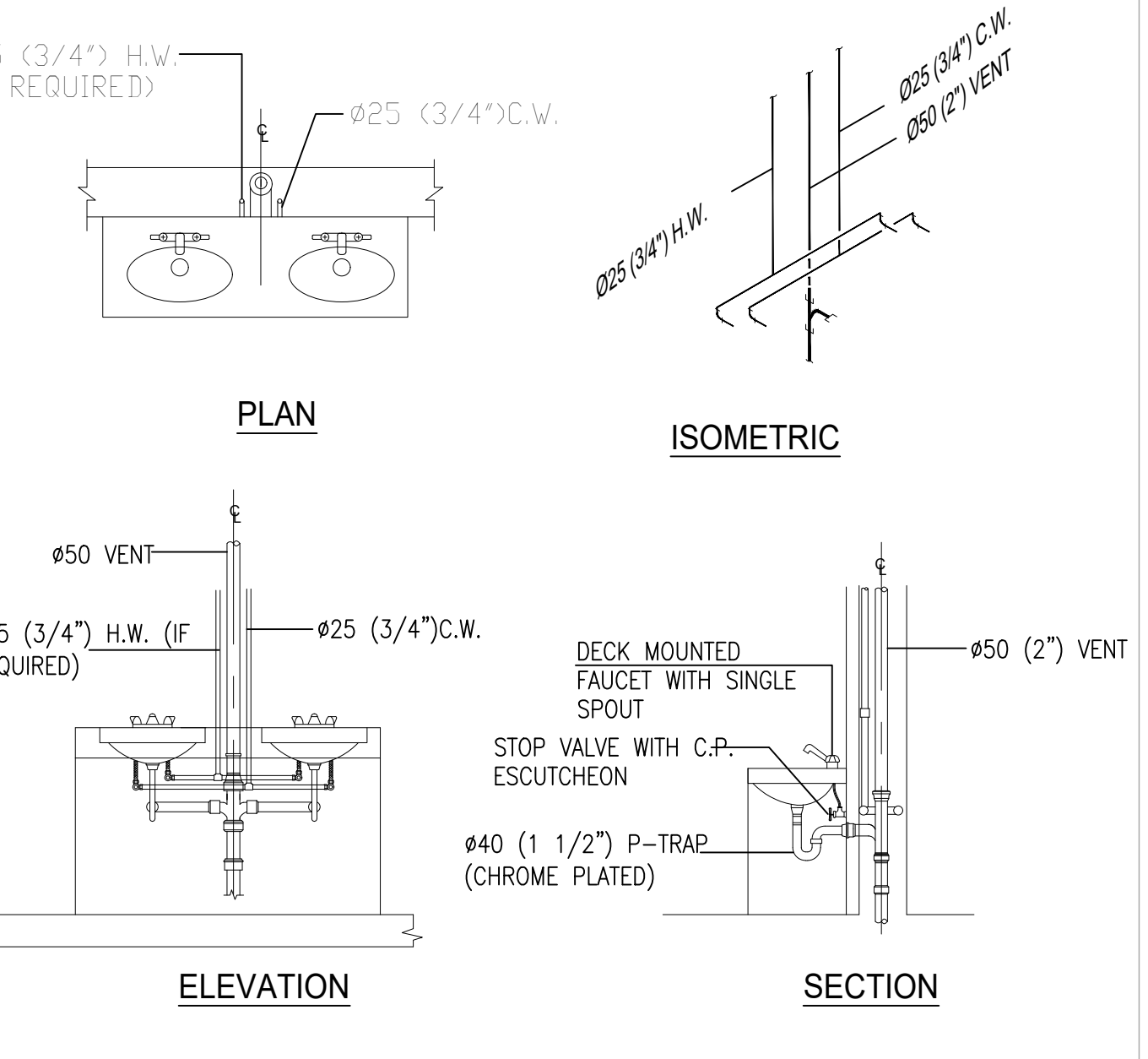
DETAIL 07 WESTERN WATER CLOSET INSTALLATION DETAIL



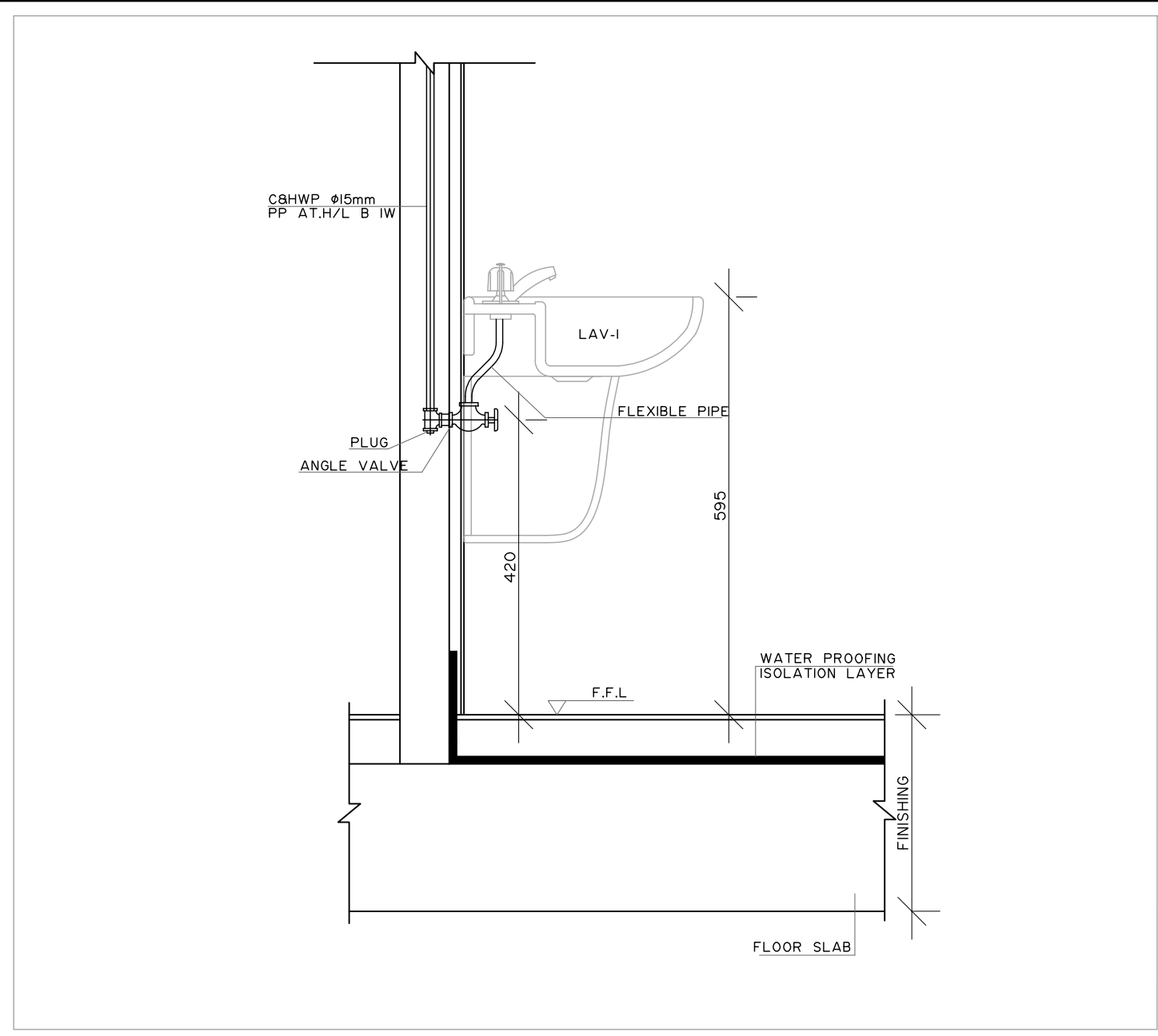
DETAIL 08 WATER CLOSET WATER SUPPLY SYSTEM (SECTION)



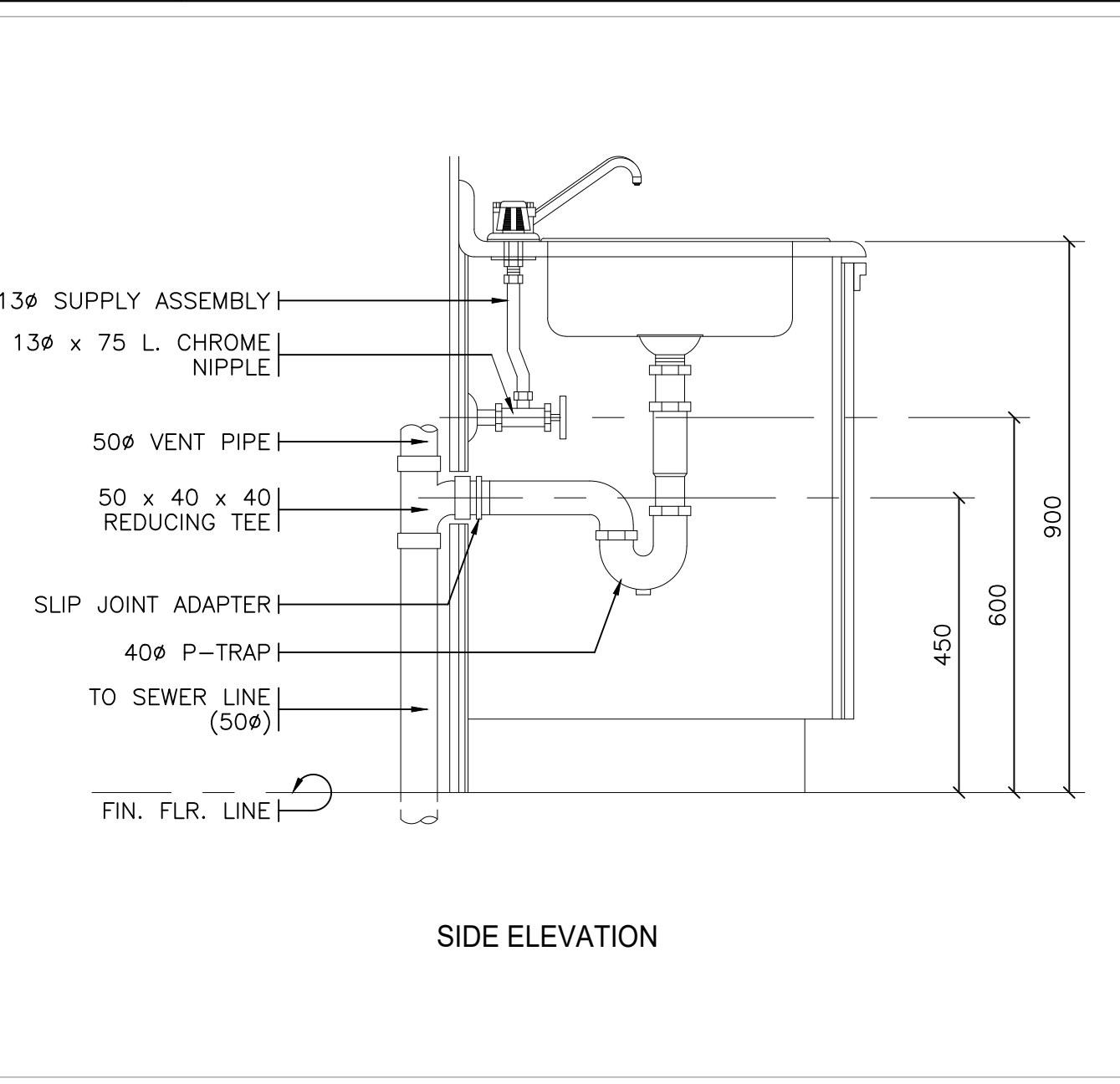
DETAIL 09 LAVATORY INSTALLATION DETAIL



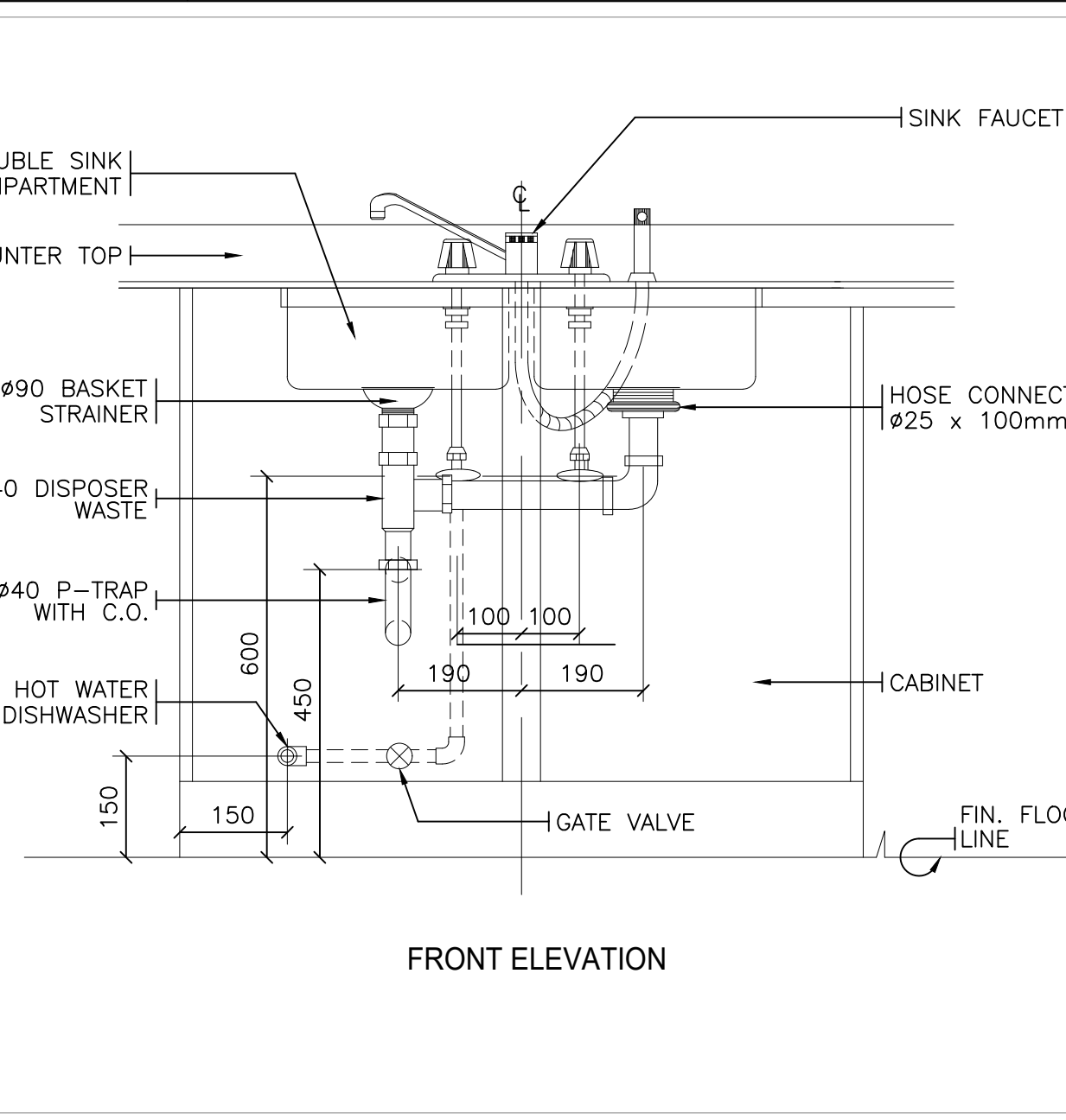
DETAIL 10 STAFF LAVATORY (L-1)



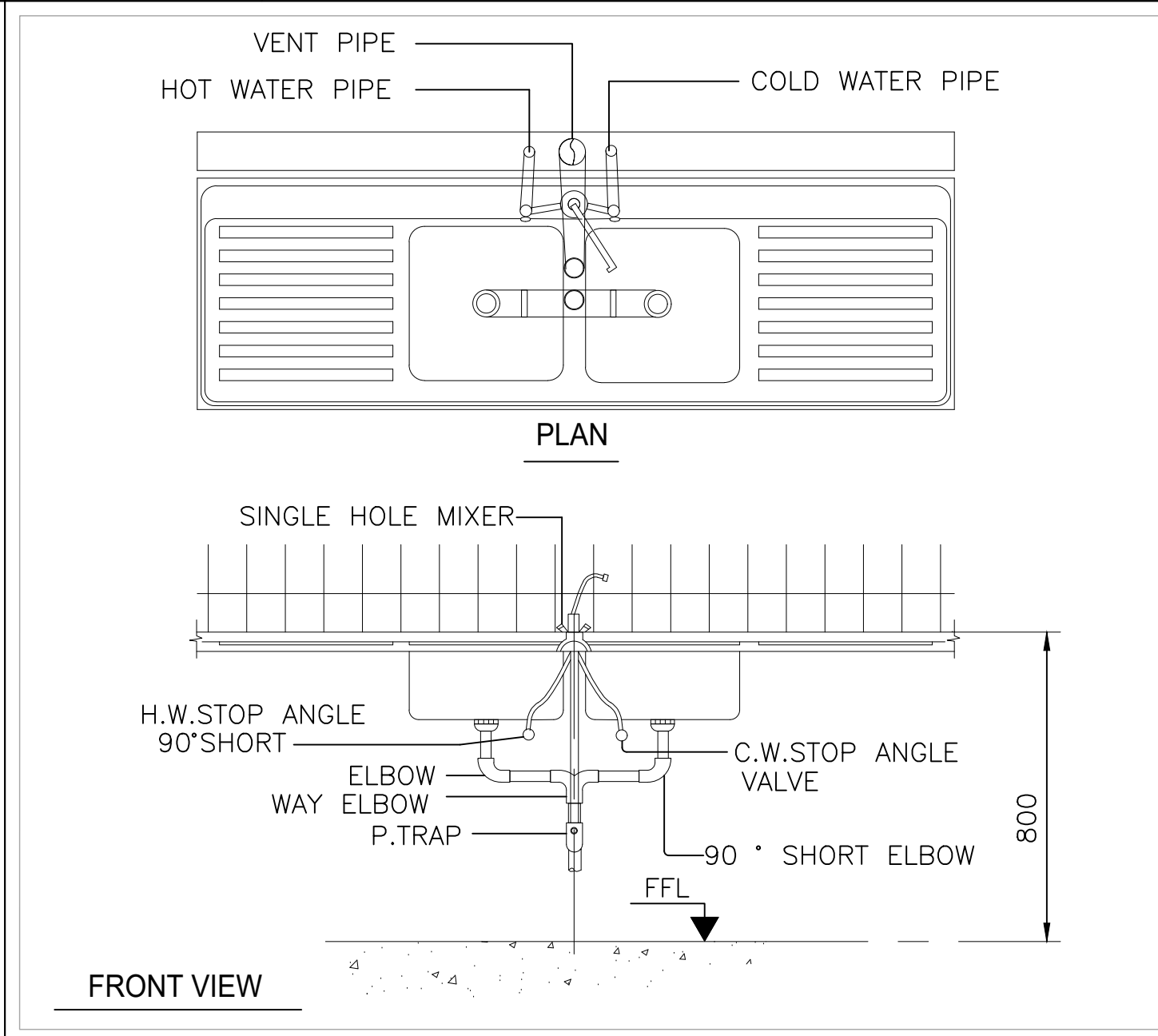
DETAIL 11 WALL PEDESTAL LAVATORY (G0855 + E7492) SUPPLY SYSTEM



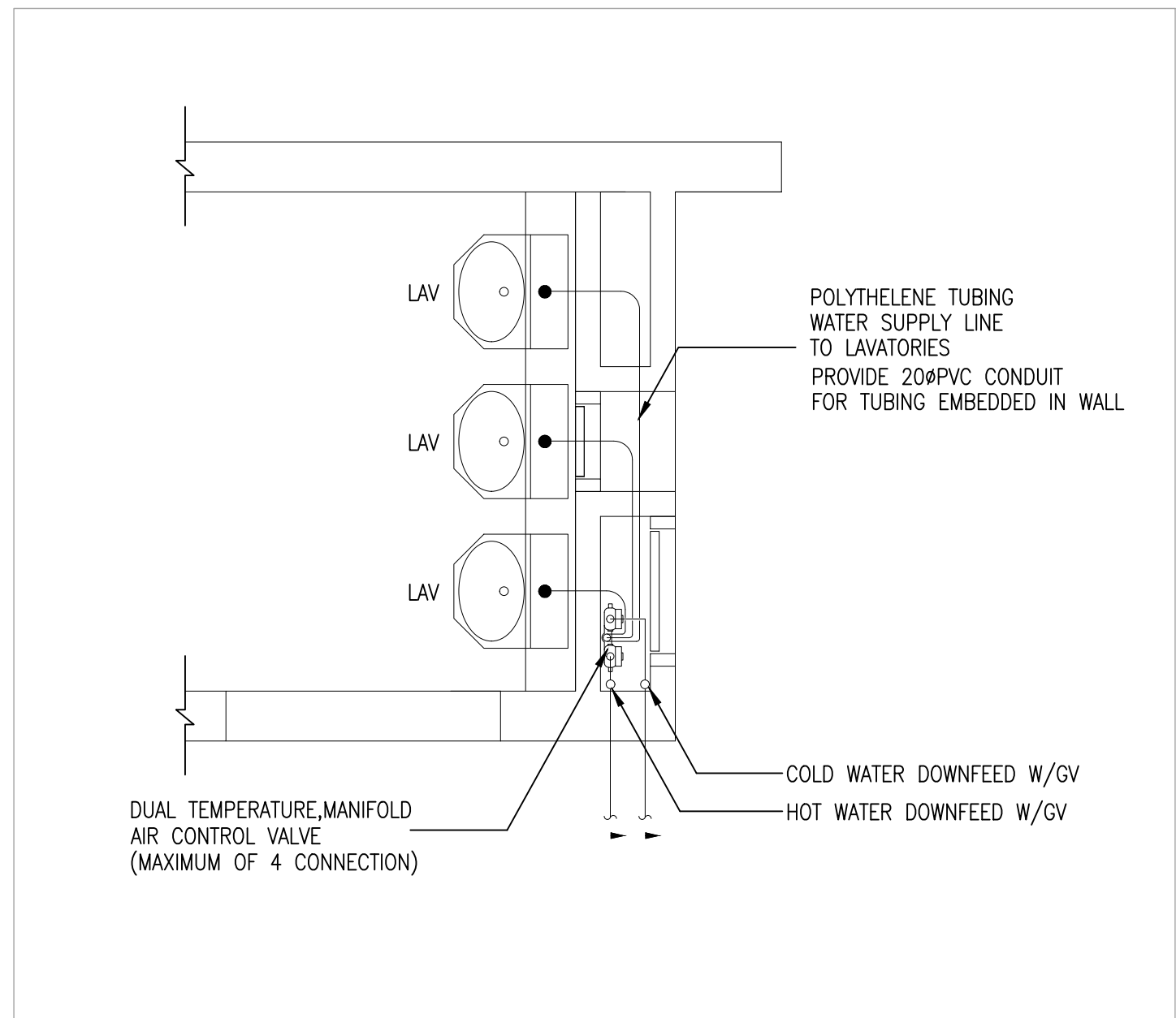
DETAIL 12 KITCHEN SINK INSTALLATION DETAIL



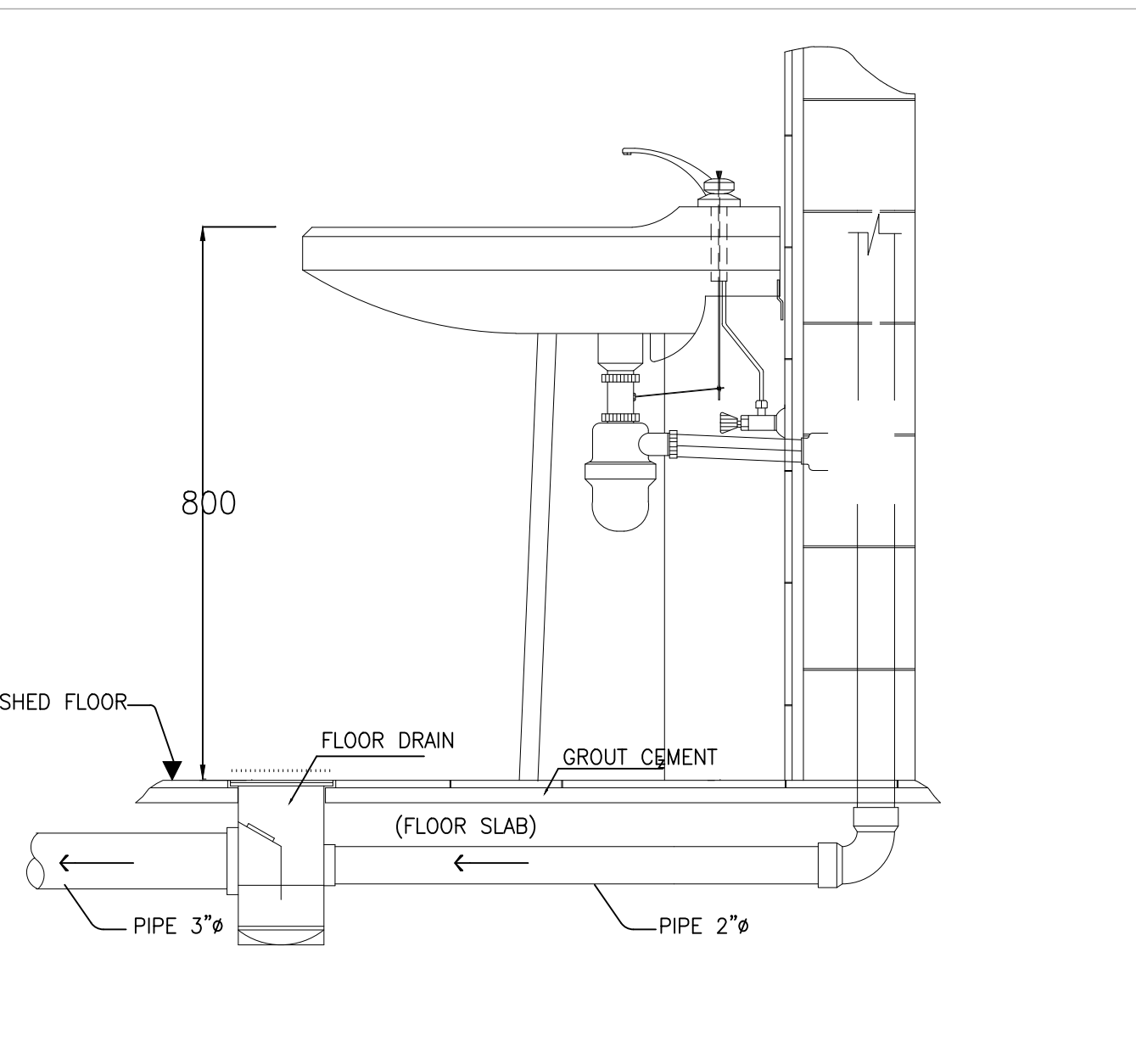
DETAIL 13 TWO COMPARTMENT SINK DETAIL



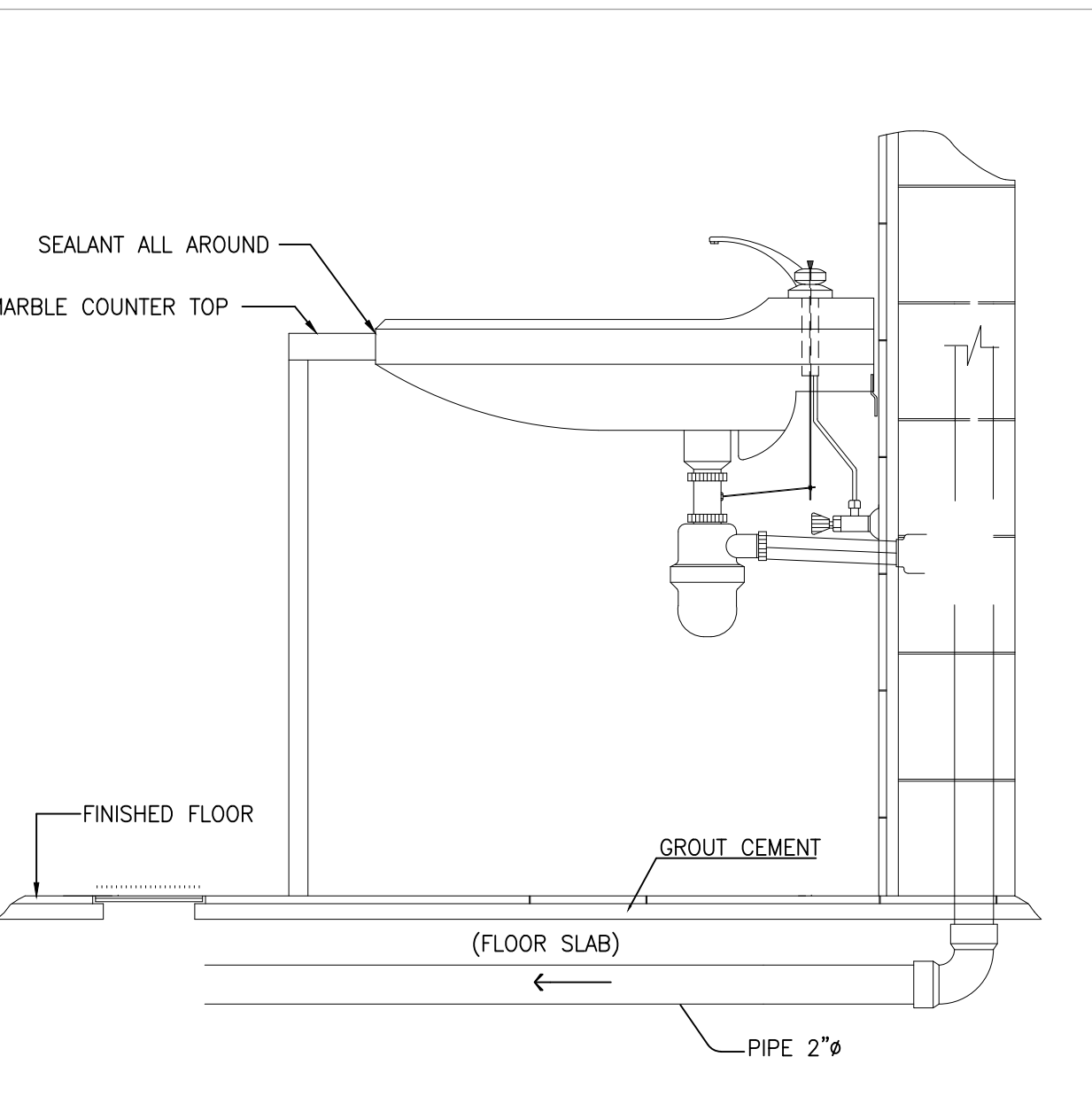
DETAIL 14 KITCHEN SINK



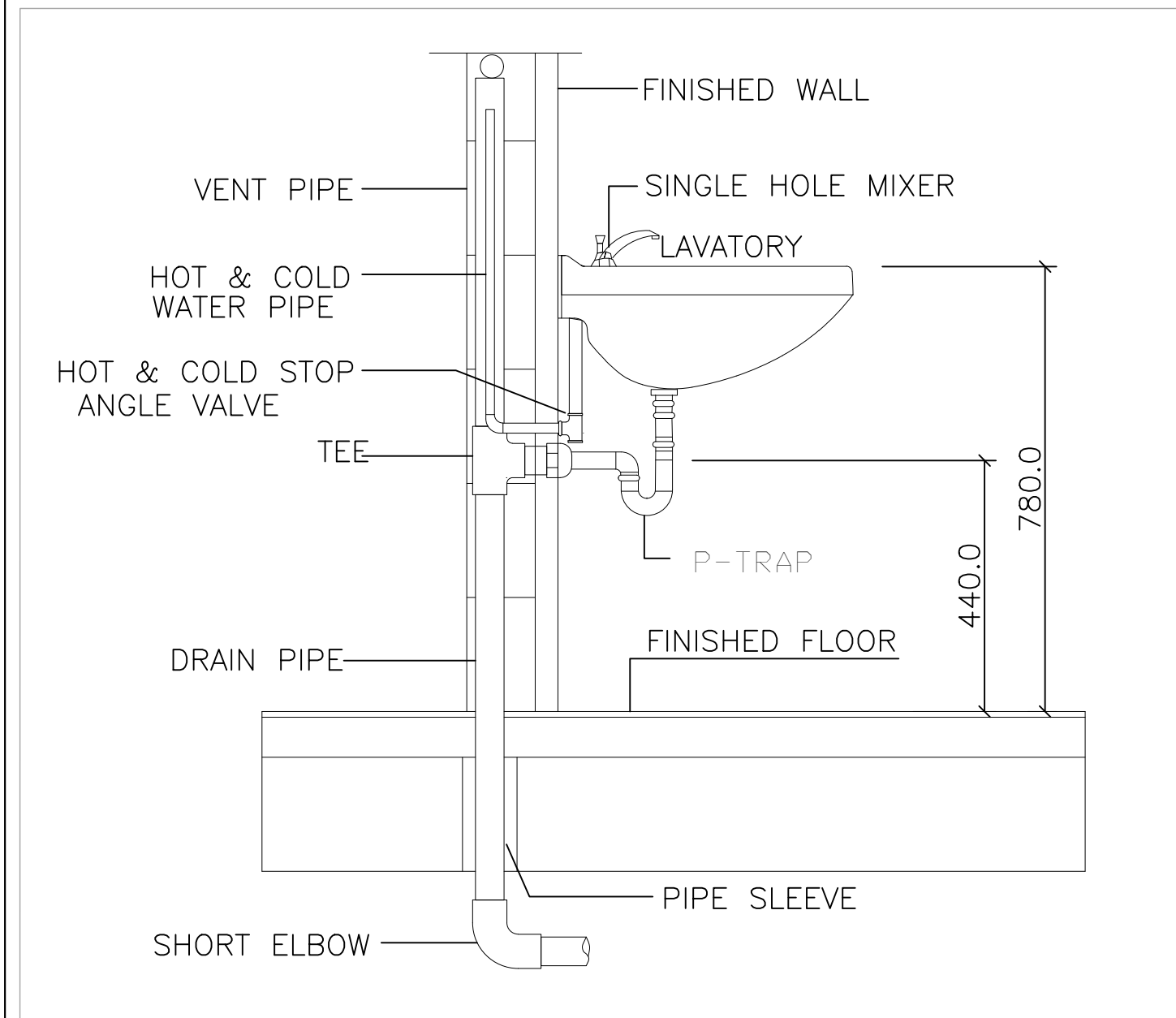
DETAIL 15 TYPICAL PIPING INSTALLATION FOR LAVATORIES IN DETENTION AREA



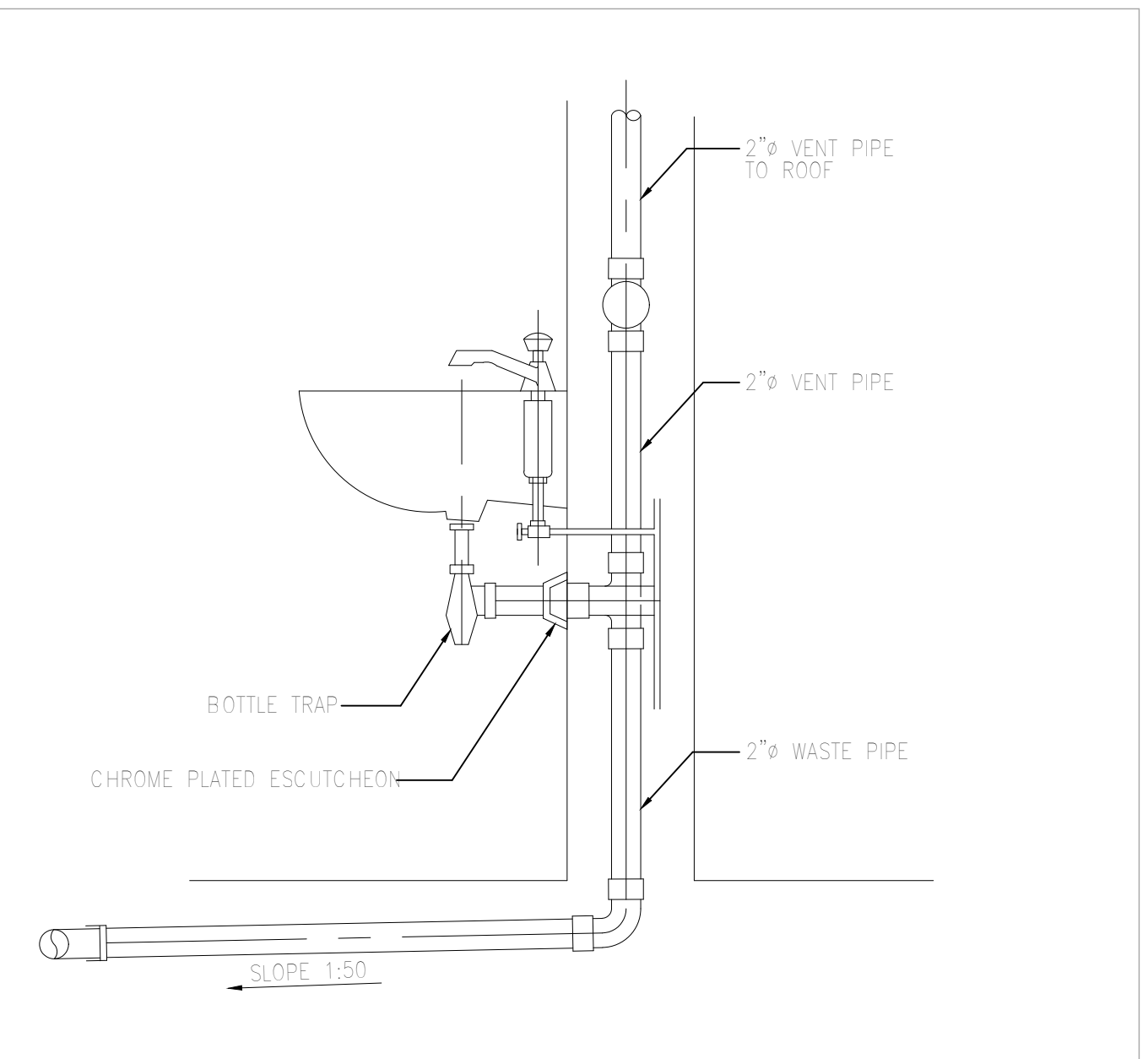
DETAIL 16 LAVATORY INSTALLATION DETAIL



DETAIL 17 LAVATORY INSTALLATION DETAIL



DETAIL 18 LAVATORY DETAILS

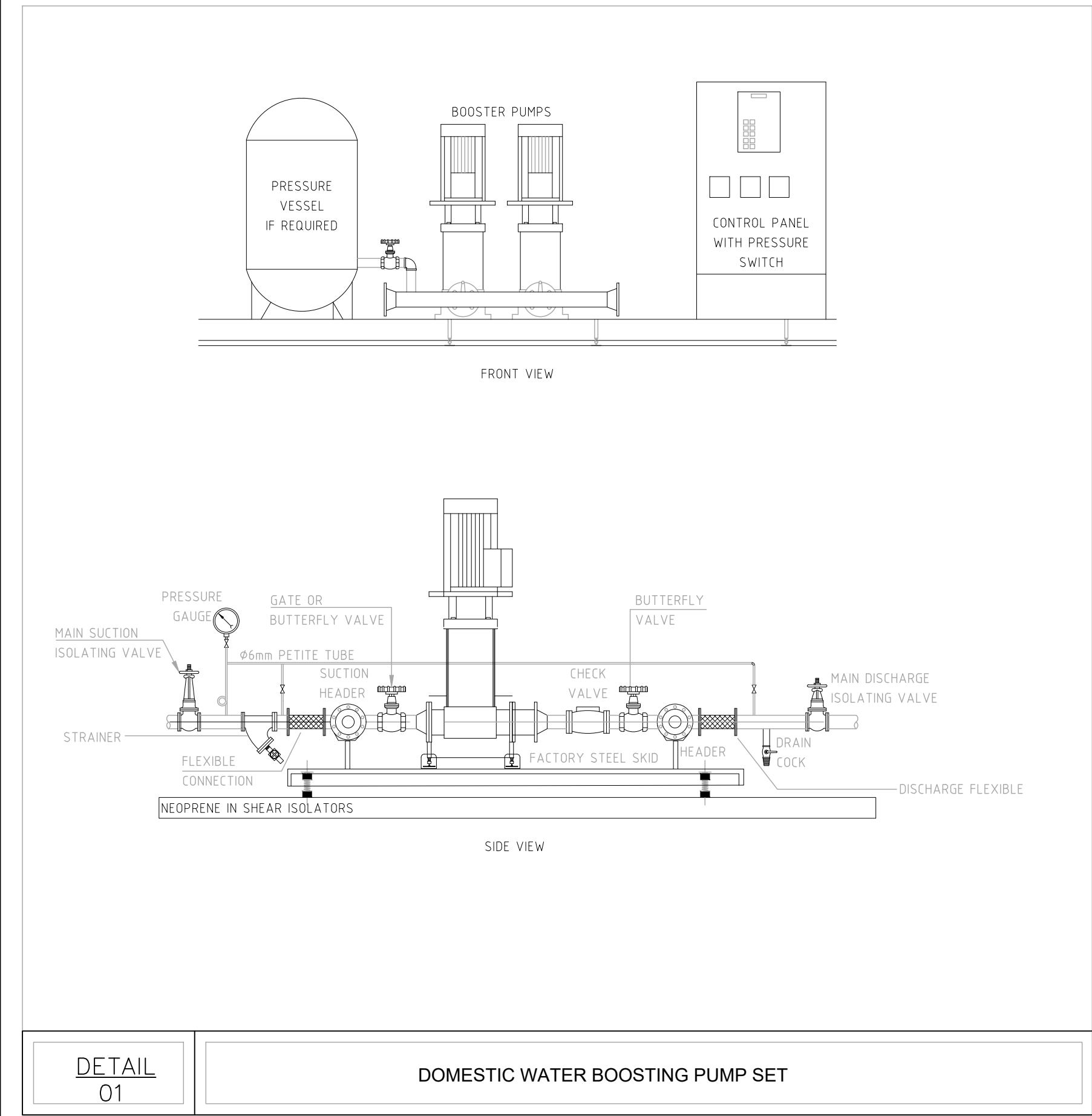


DETAIL 19 LAVATORY DRAIN PIPING DETAILS

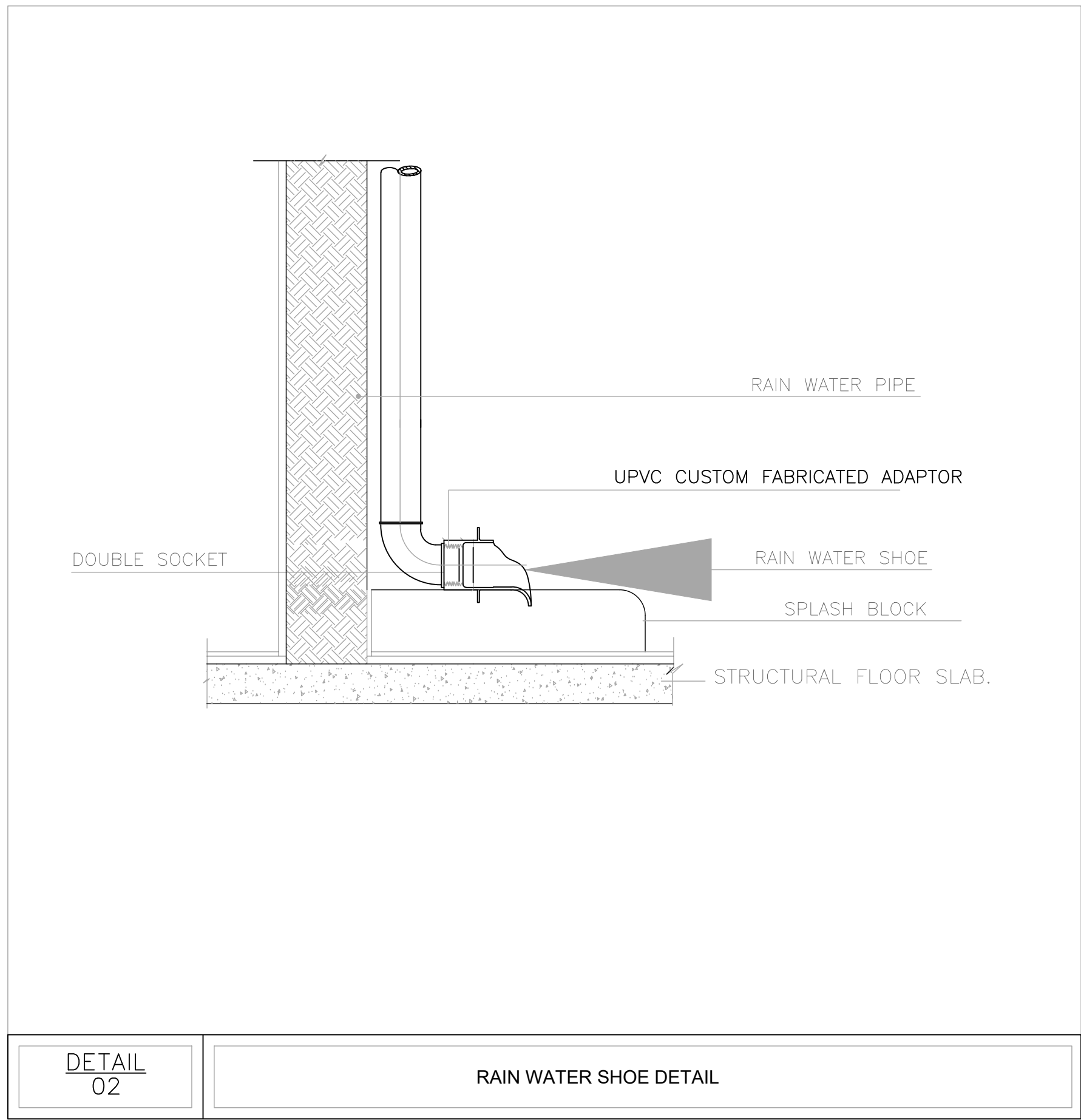


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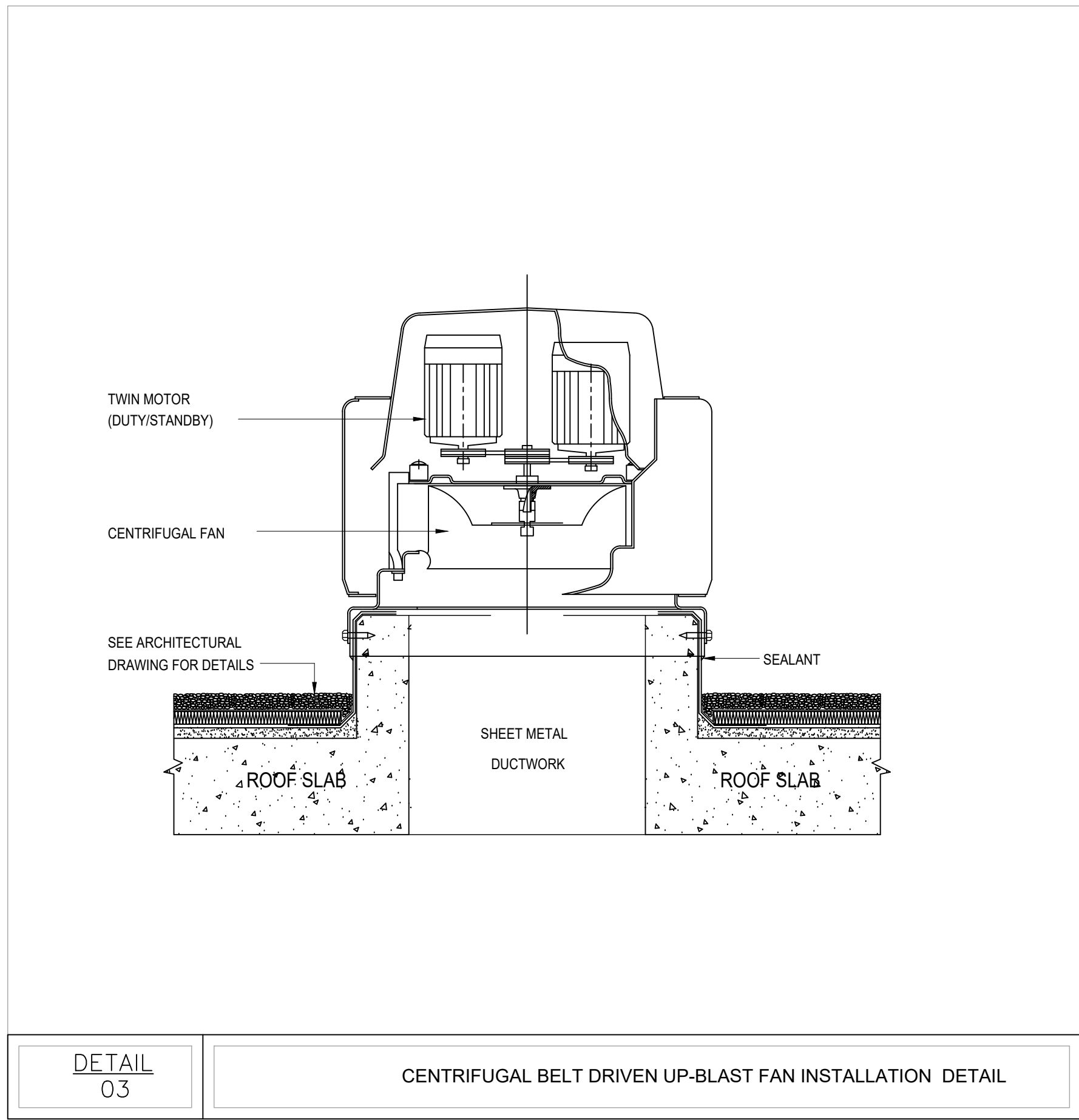
PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
V. MARK	DATE	MADE BY	REMARKS		
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS				
M P	MADI & PARTNERS CONSULTING ENGINEERS				
C E	TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo				
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY				
DRG. TITLE	MECHANICAL DETAILS 02				
DRAWN BY			:	MECH.T	
SCALE:			NTS		
DESIGNED BY			:	A.Q	
DATE			: DEC.-2023		
CHECKED BY			:	F.N	
PROJECT No.			DRAWING No.		
APPROVED BY			:	F.N	
			M-1101		



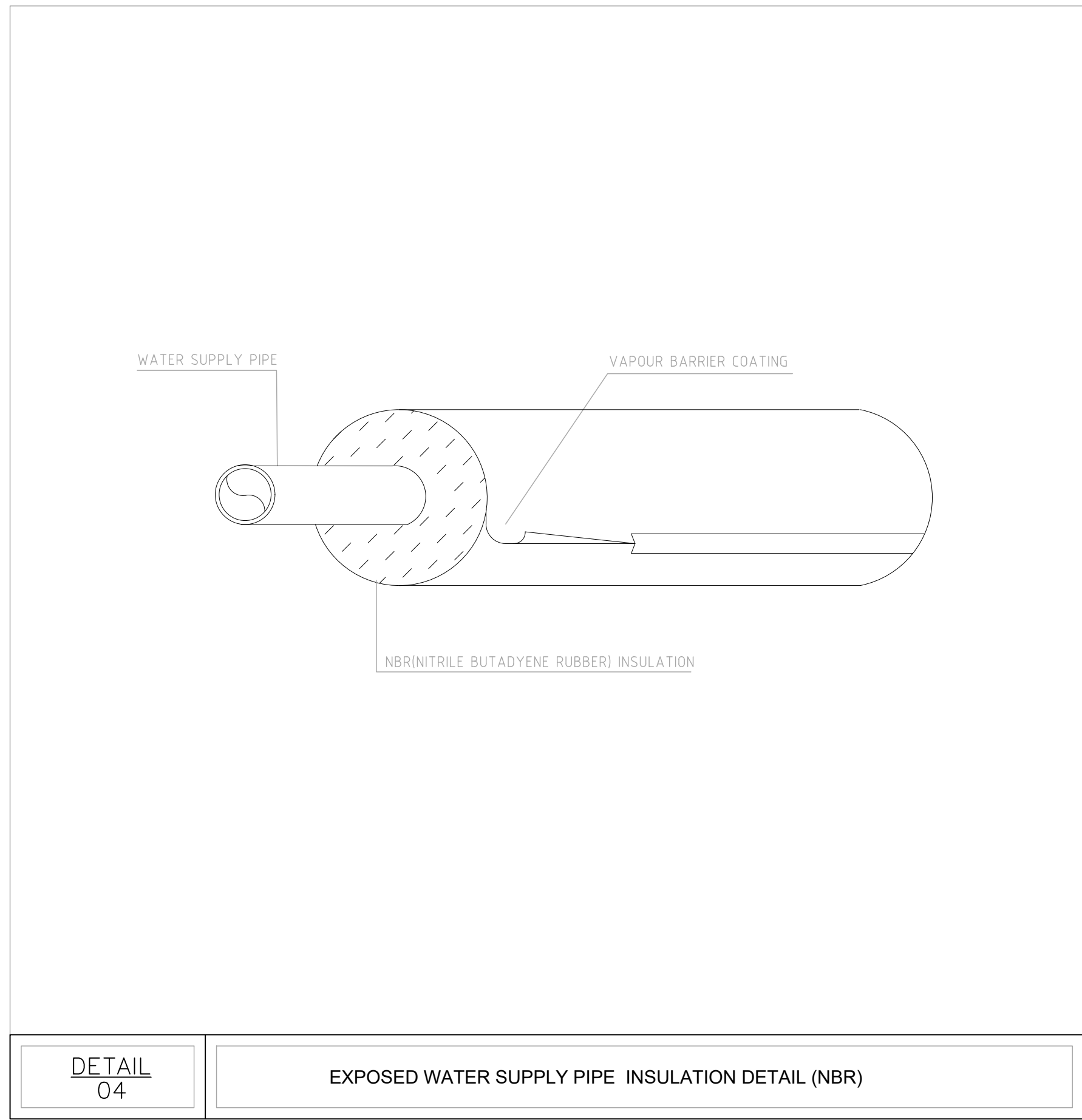
DETAIL 01 DOMESTIC WATER BOOSTING PUMP SET



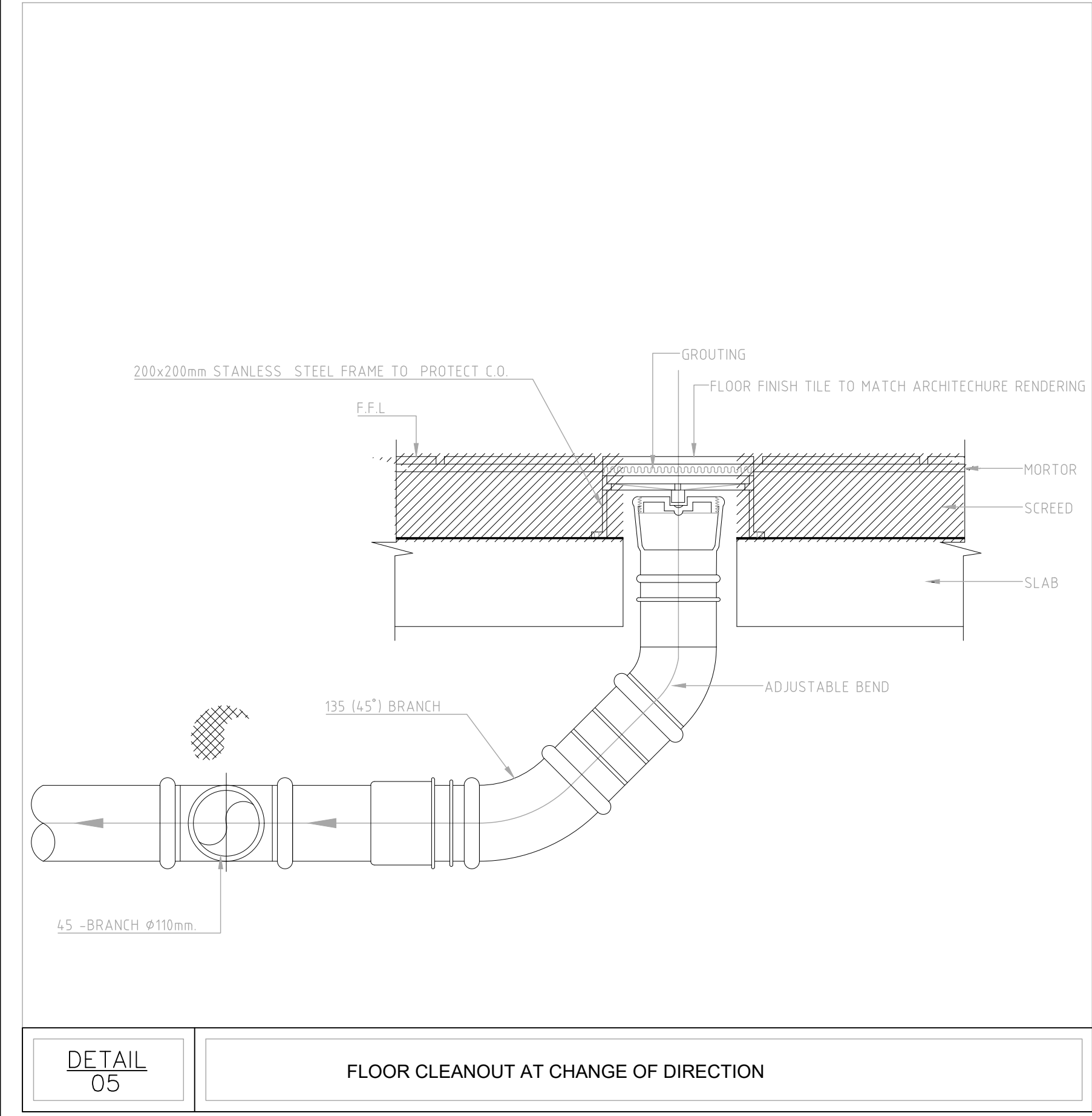
DETAIL 02 RAIN WATER SHOE DETAIL



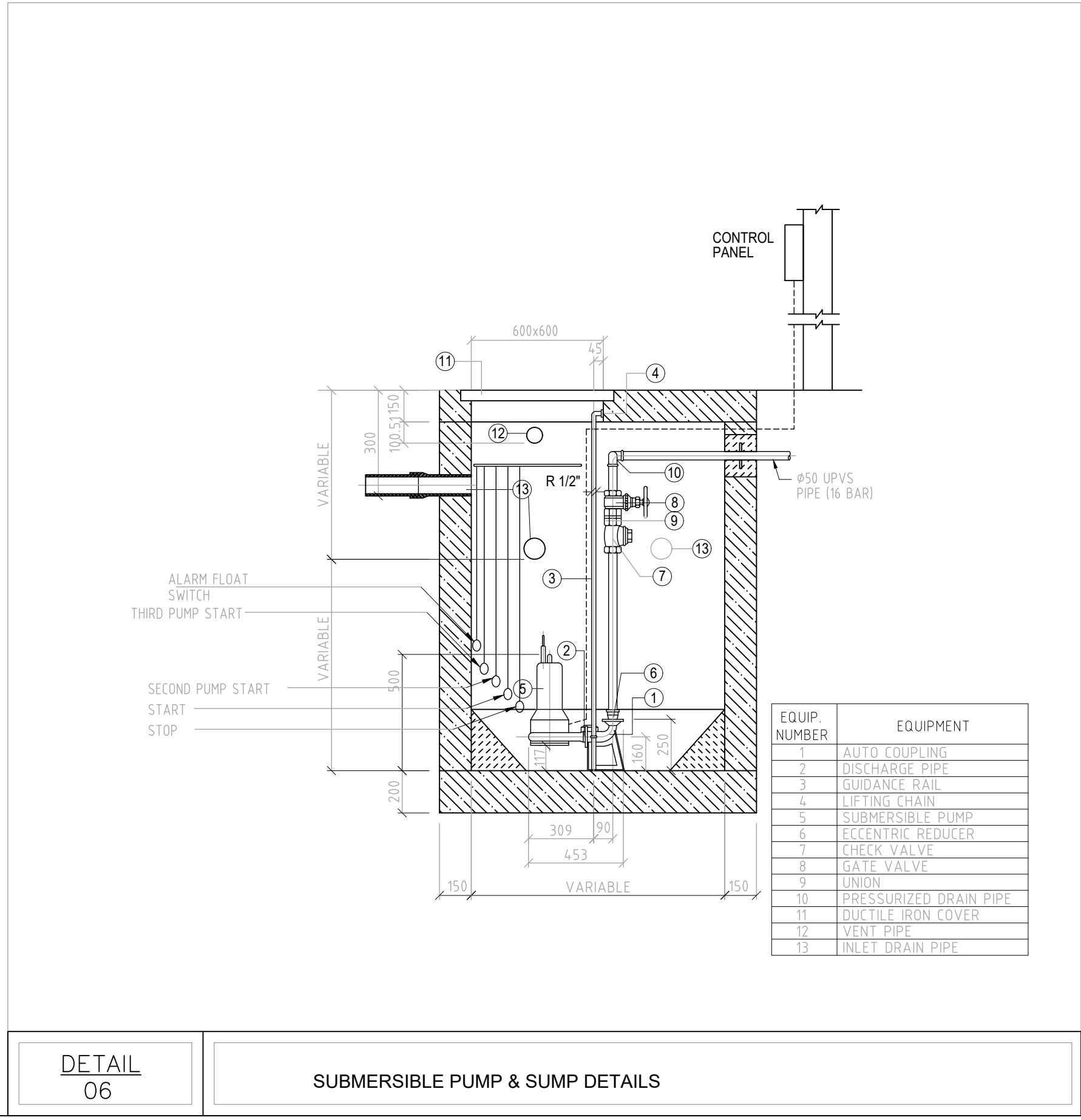
DETAIL 03 CENTRIFUGAL BELT DRIVEN UP-BLAST FAN INSTALLATION DETAIL



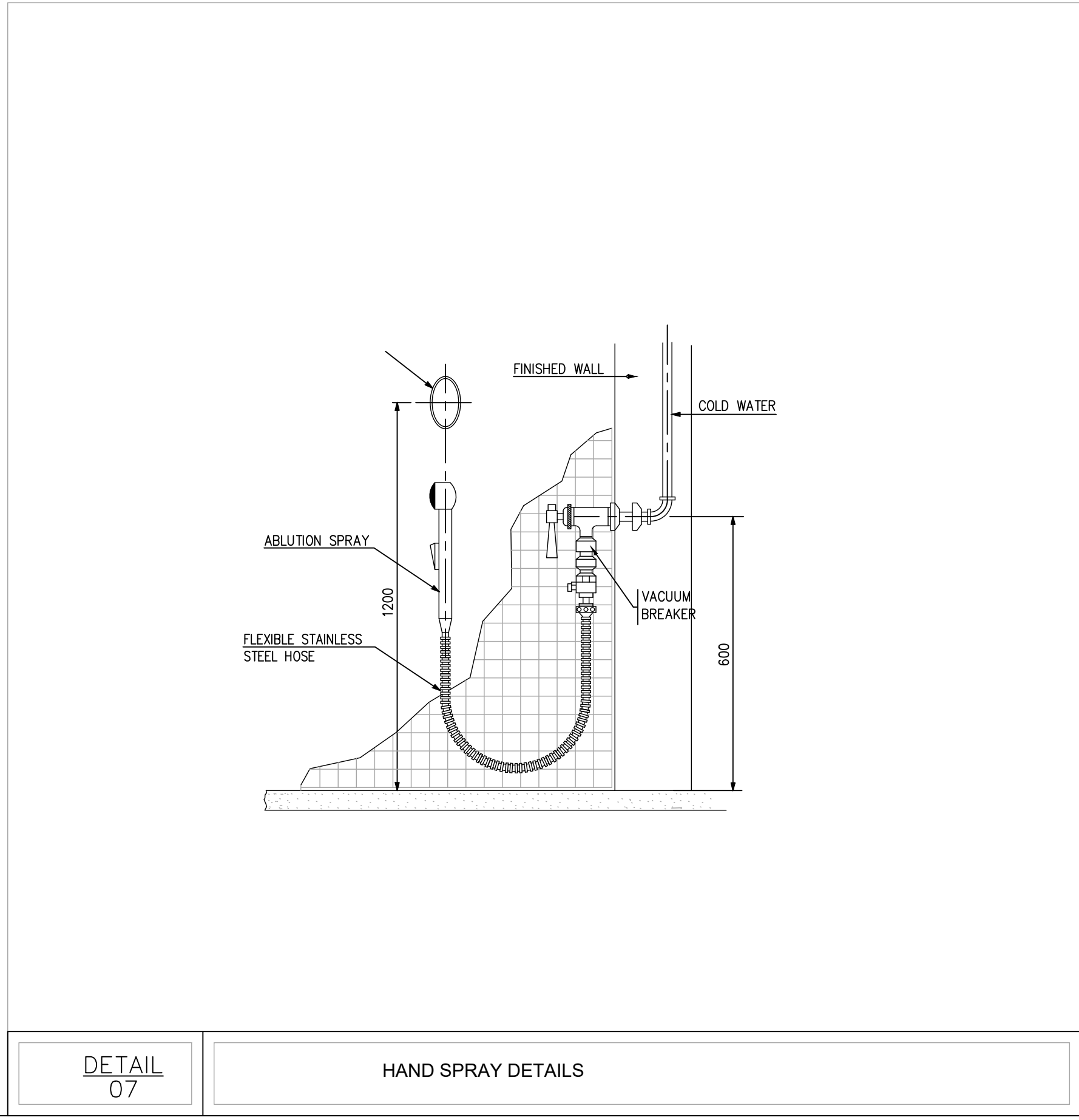
DETAIL 04 EXPOSED WATER SUPPLY PIPE INSULATION DETAIL (NBR)



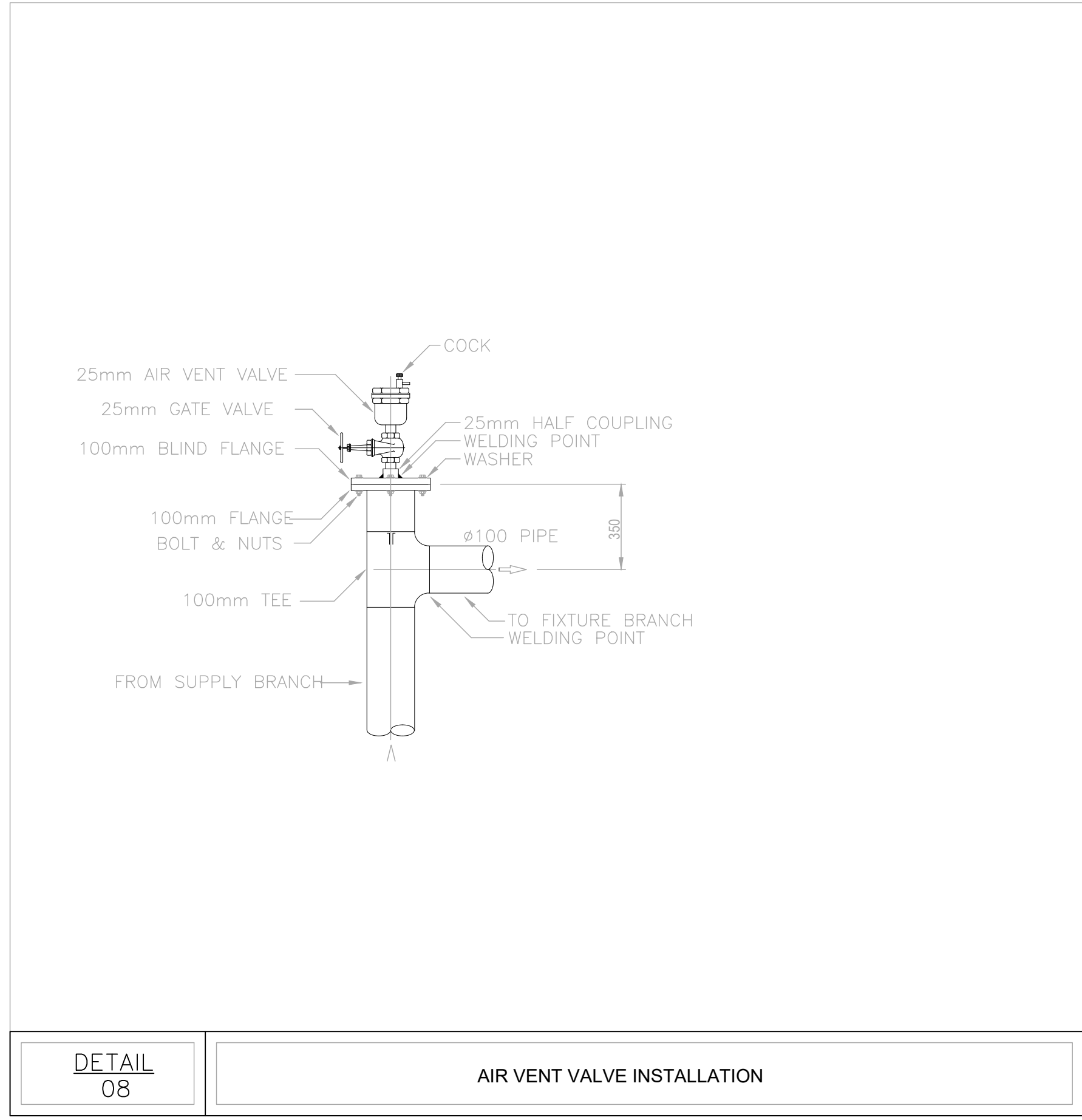
DETAIL 05 FLOOR CLEANOUT AT CHANGE OF DIRECTION



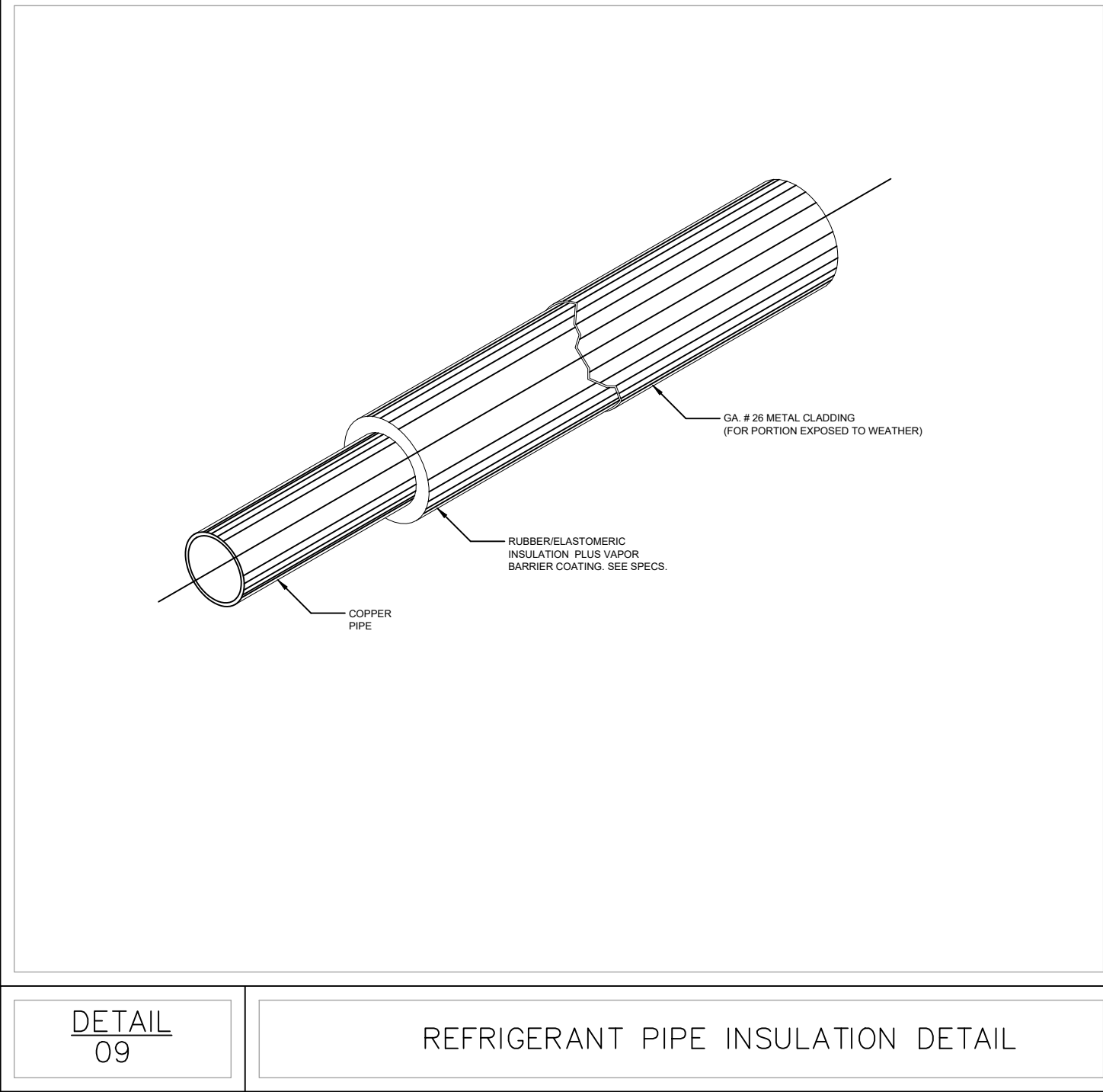
DETAIL 06 SUBMERSIBLE PUMP & SUMP DETAILS



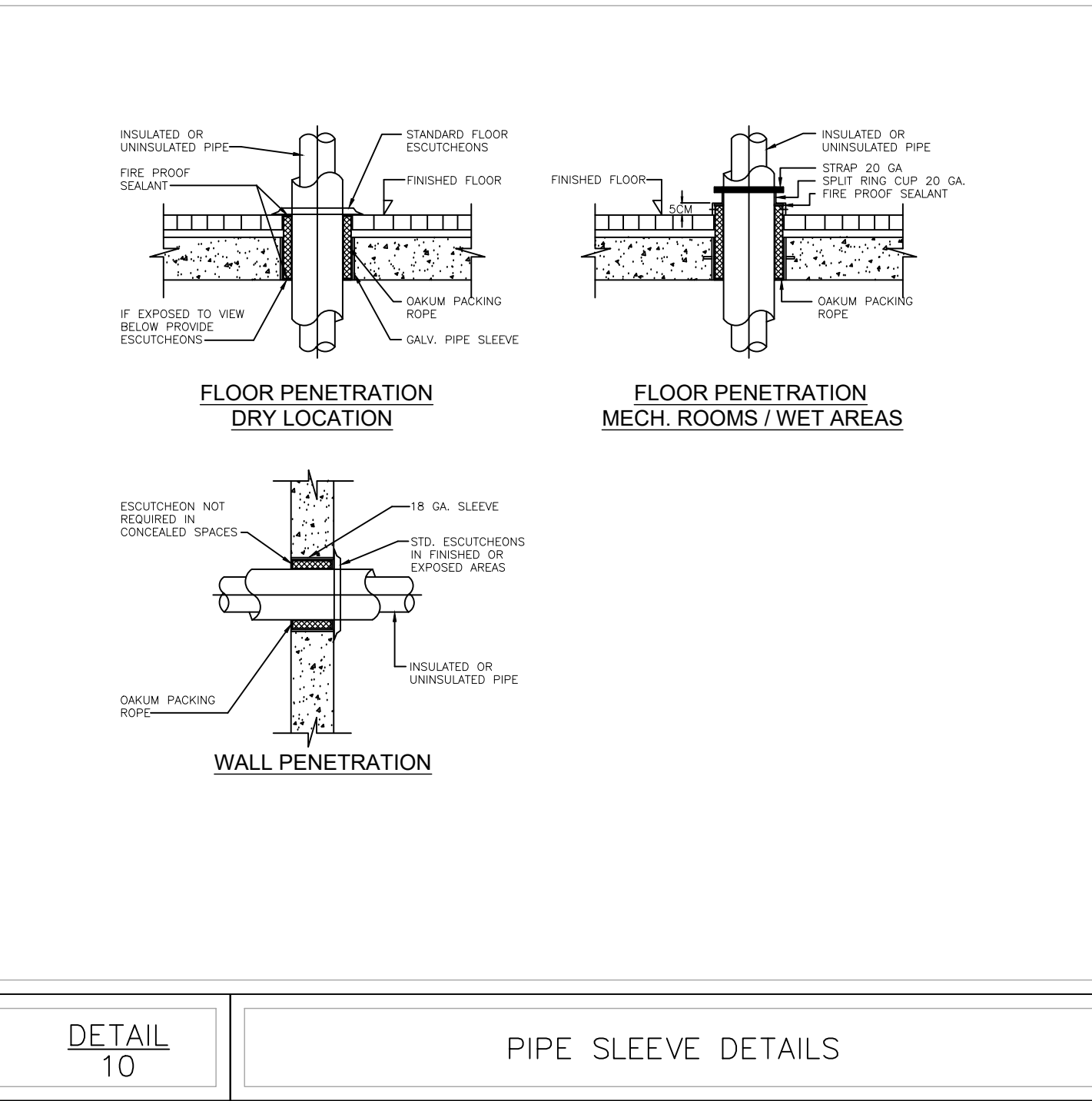
DETAIL 07 HAND SPRAY DETAILS



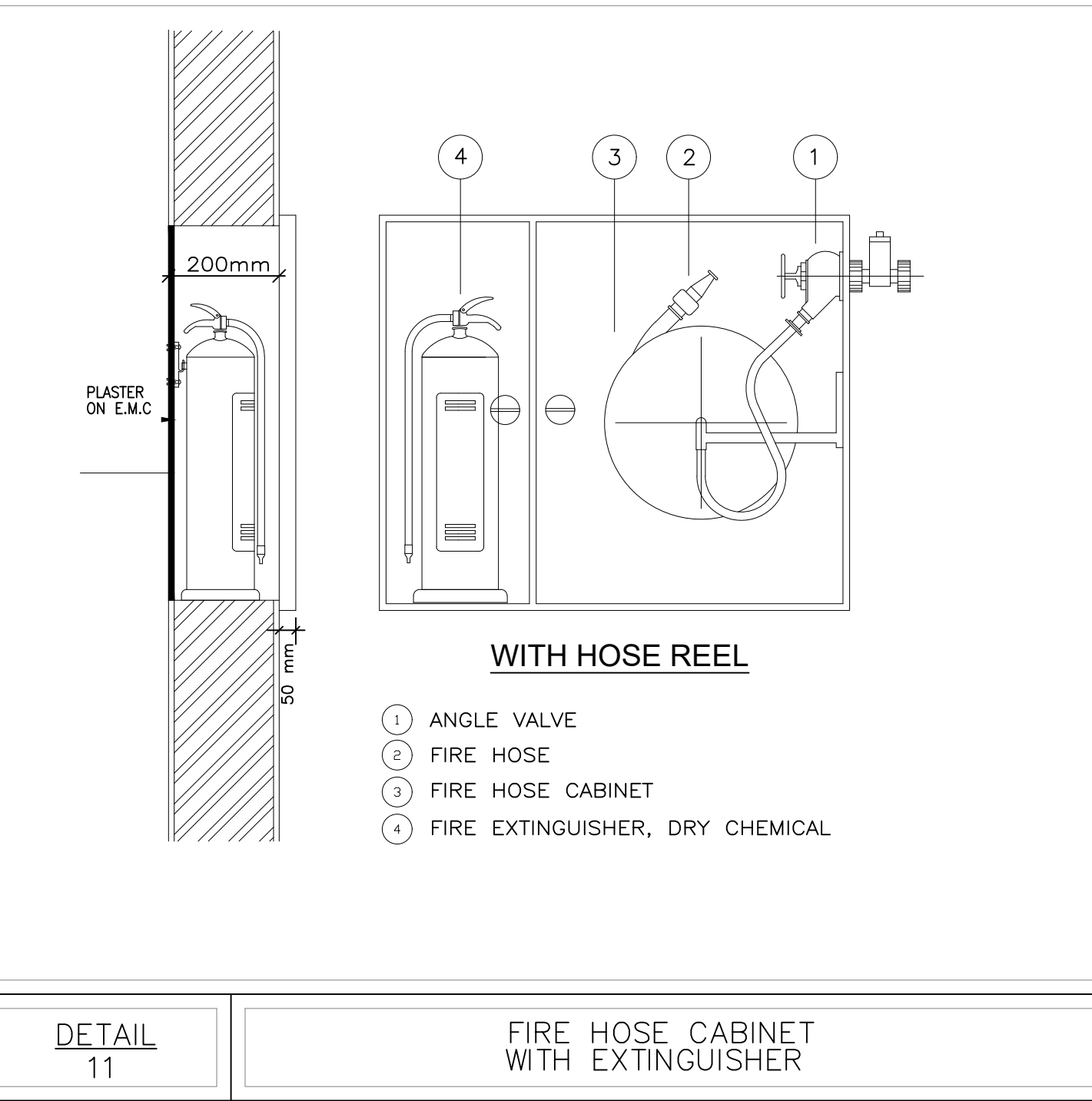
DETAIL 08 AIR VENT VALVE INSTALLATION



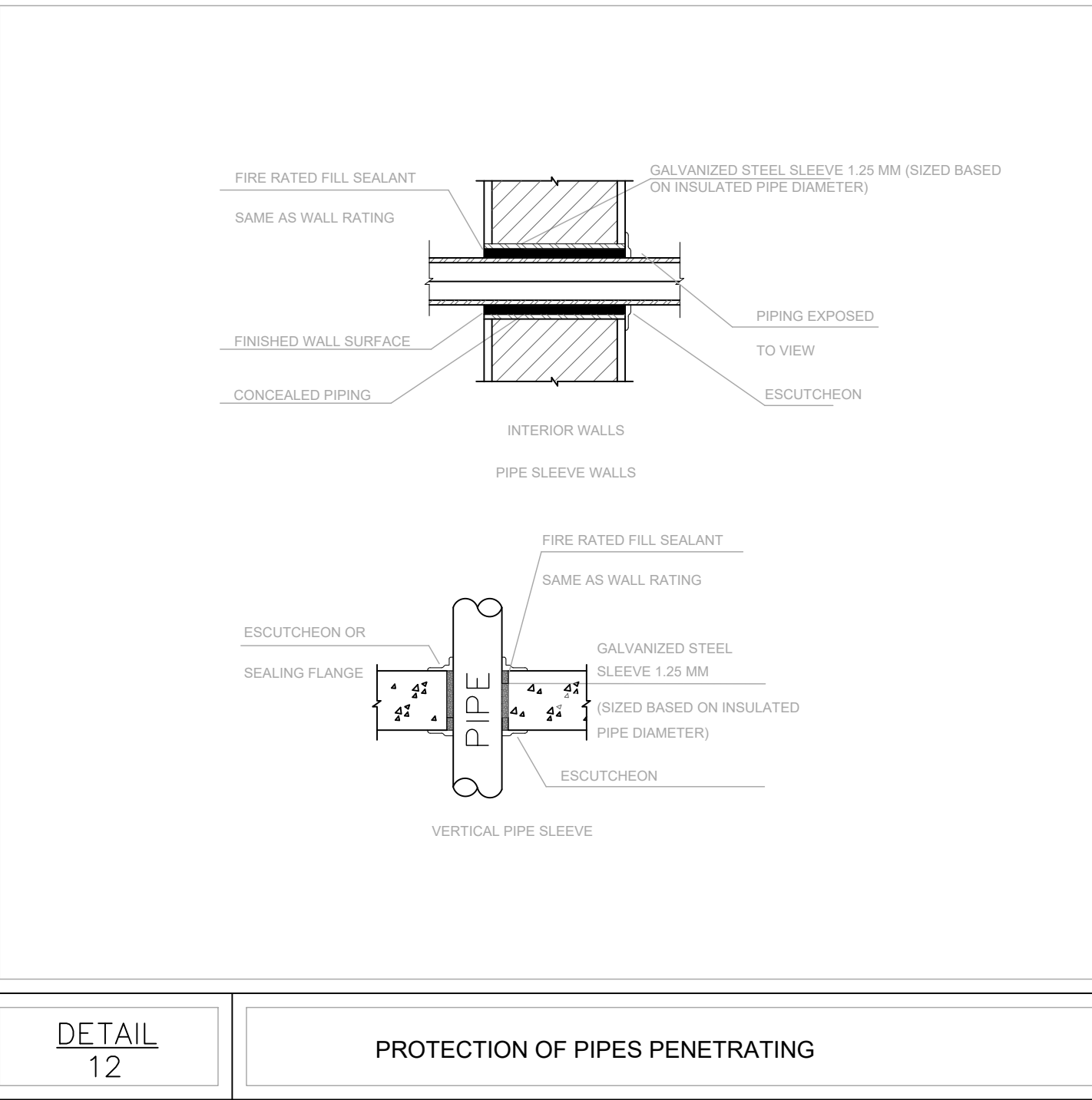
DETAIL 09 REFRIGERANT PIPE INSULATION DETAIL



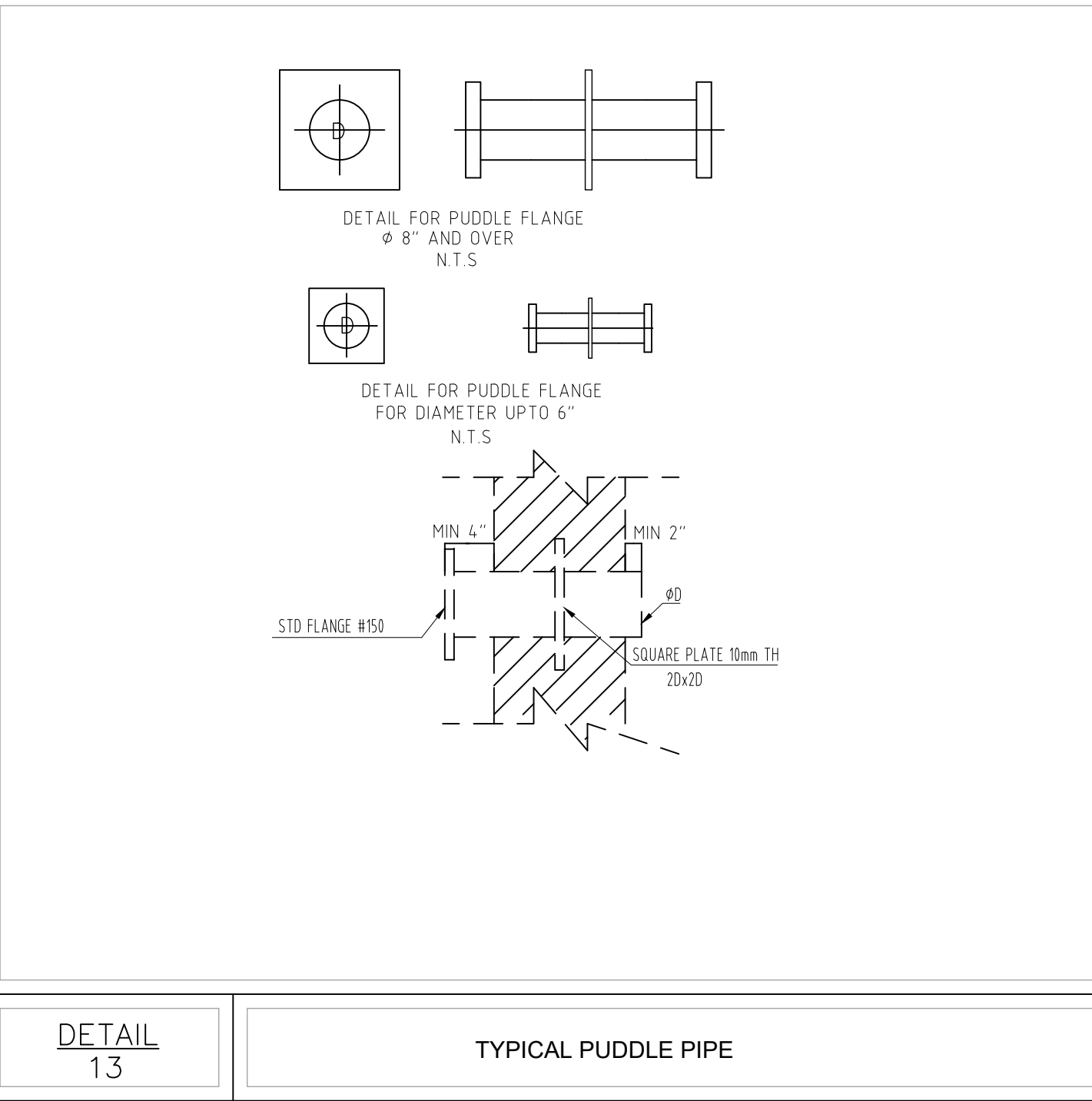
DETAIL 10 PIPE SLEEVE DETAILS



DETAIL 11 FIRE HOSE CABINET WITH EXTINGUISHER



DETAIL 12 PROTECTION OF PIPES PENETRATING



DETAIL 13 TYPICAL PUDDLE PIPE



NOTES:

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

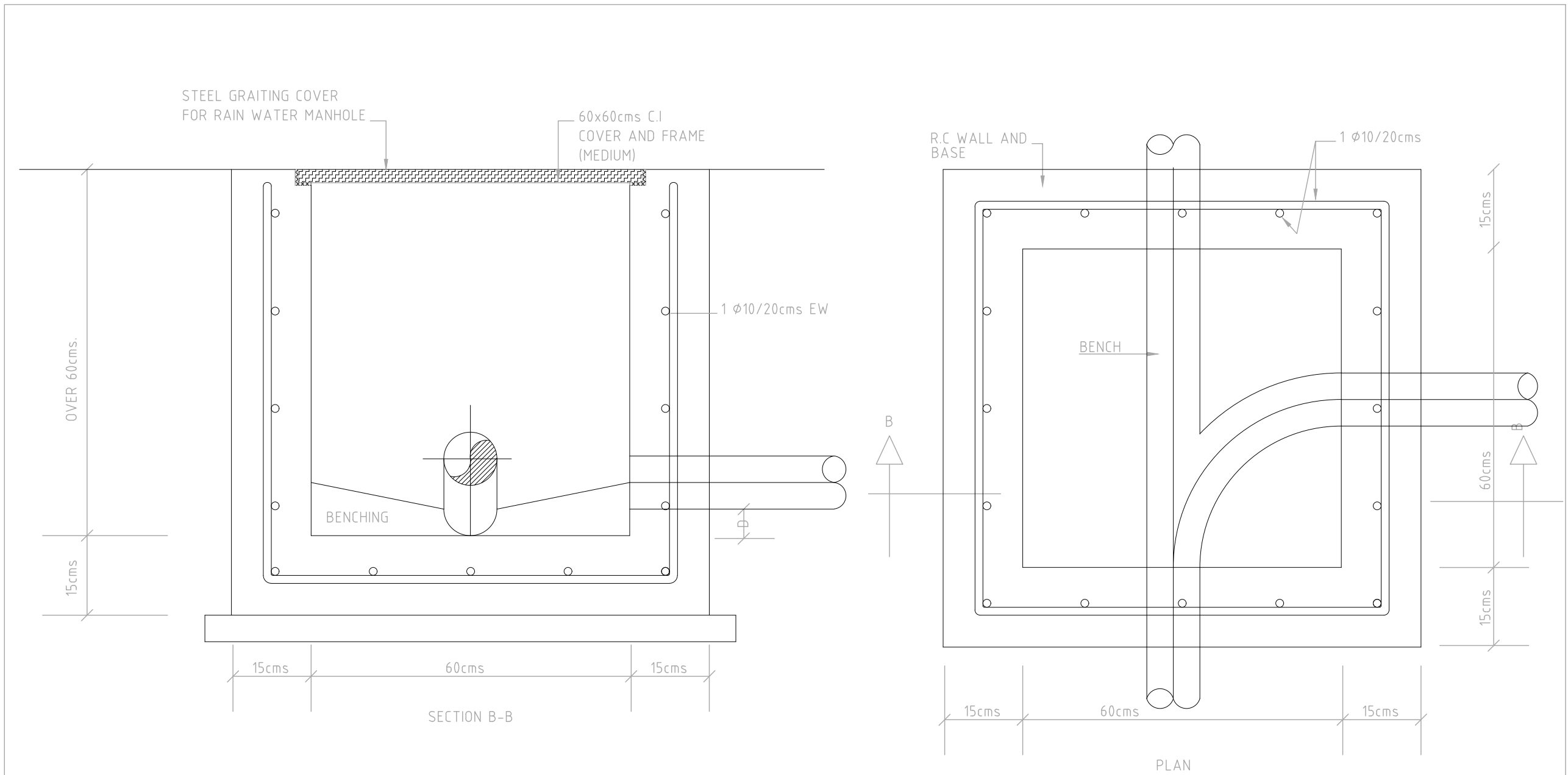
REV. MARK DATE MADE BY REMARKS
CLIENT THE NATIONAL CENTER FOR DIABETES
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MP MADI & PARTNERS CONSULTING ENGINEERS
CE TEL:5829640-5829641 FAX:5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

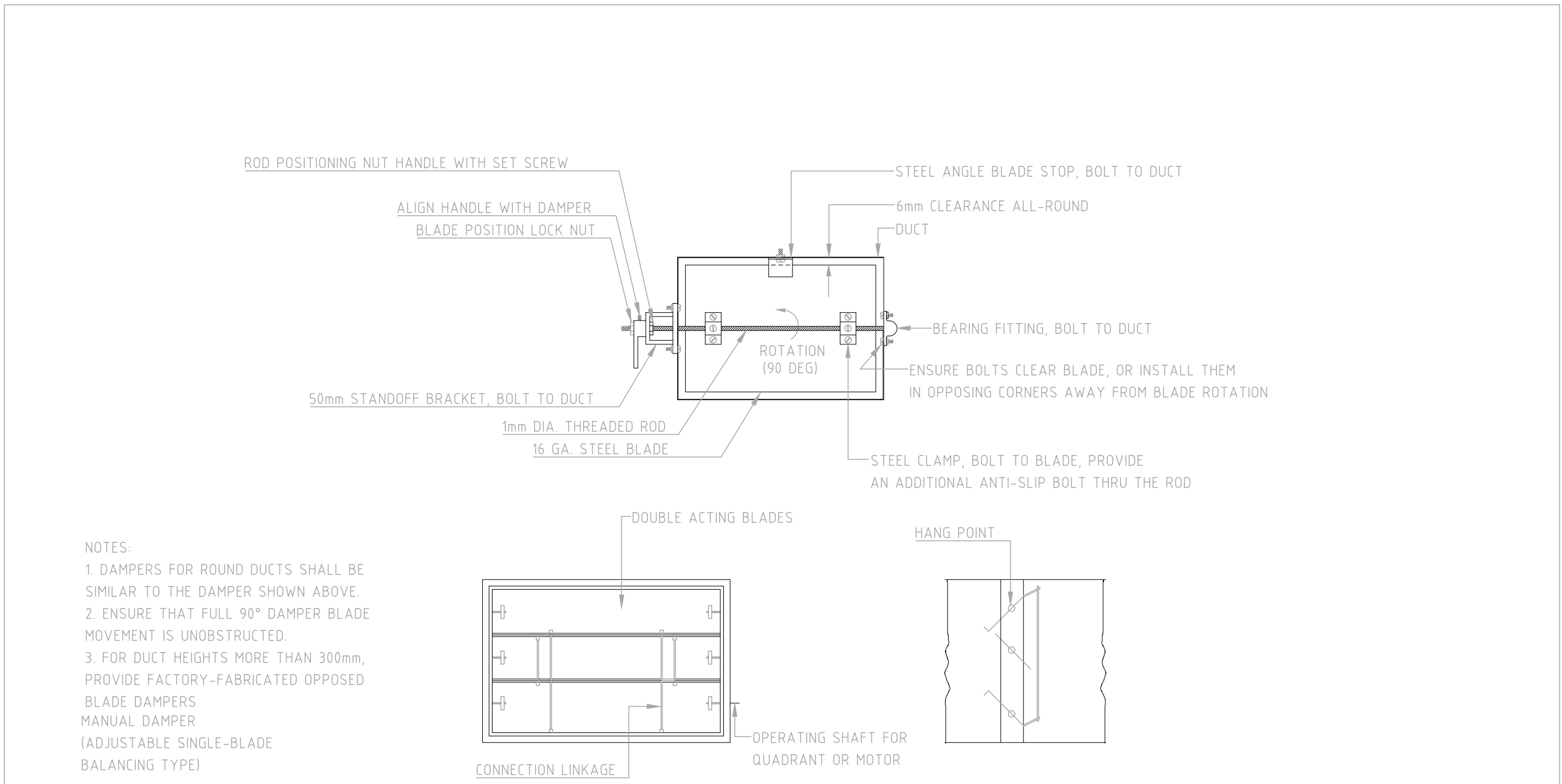
DRG. TITLE MECHANICAL DETAILS 03

DRAWN BY : MECH.T SCALE: NTS
DESIGNED BY : A.Q DATE : DEC.-2023
CHECKED BY : F.N PROJECT No. DRAWING No.
APPROVED BY: F.N M-1102



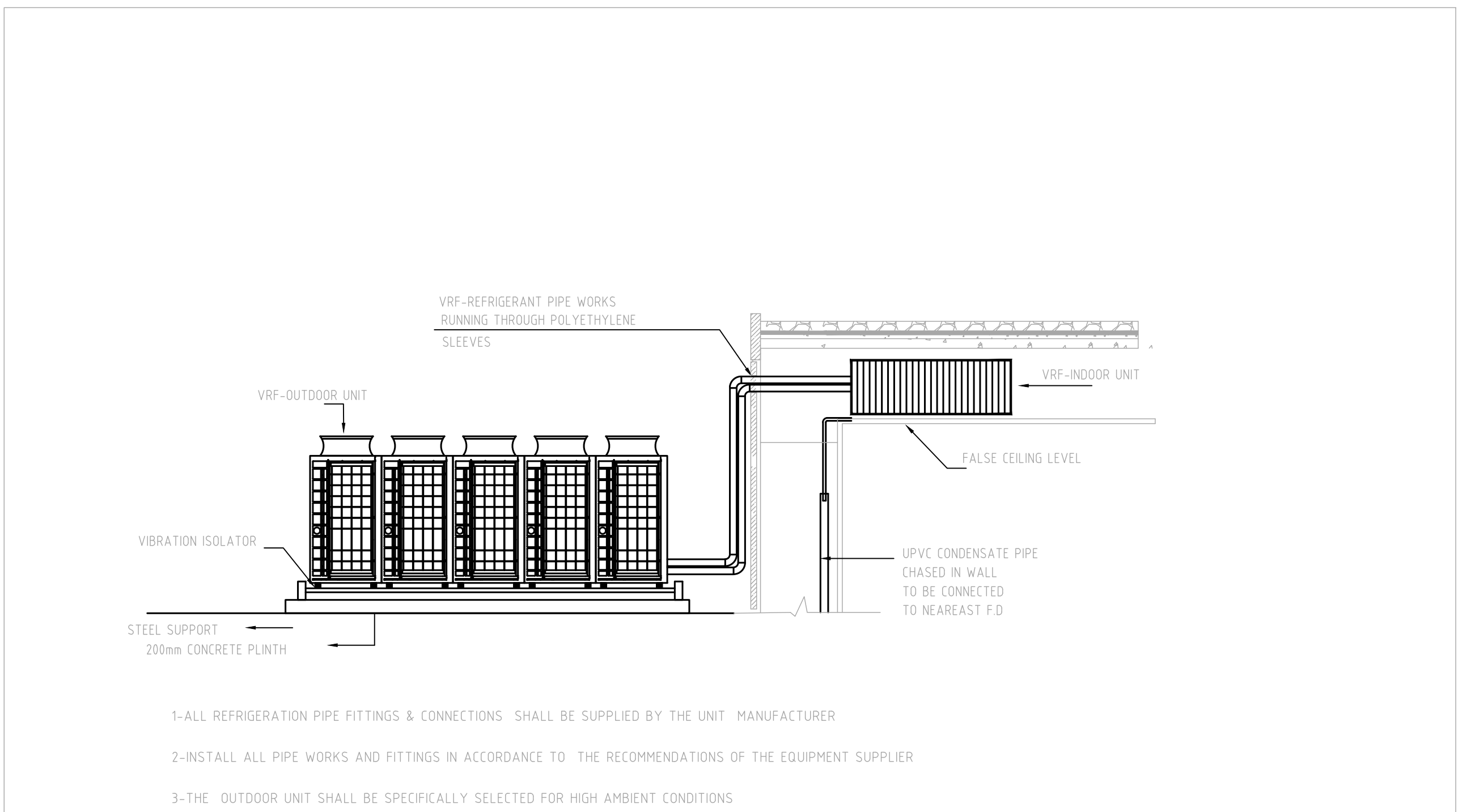
DETAIL 01

DRAINAGE MANHOLE - 60x60CM DEPTH 45CM-150CM.



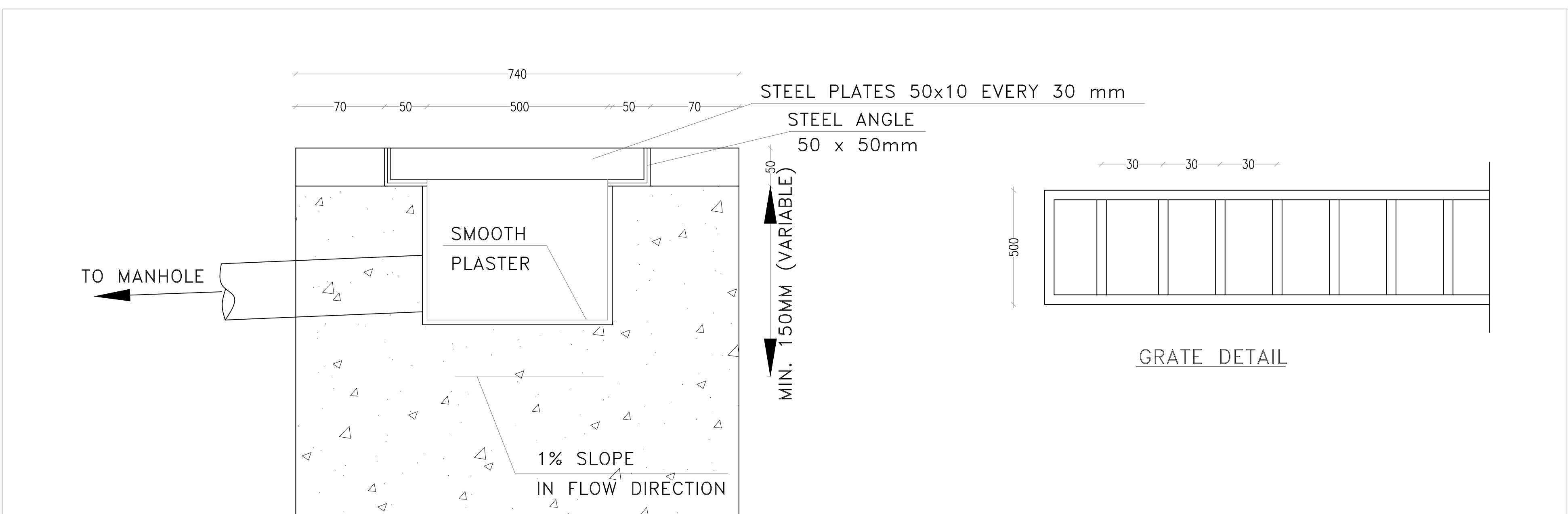
DETAIL 02

TYPICAL VOLUME DAMPERS



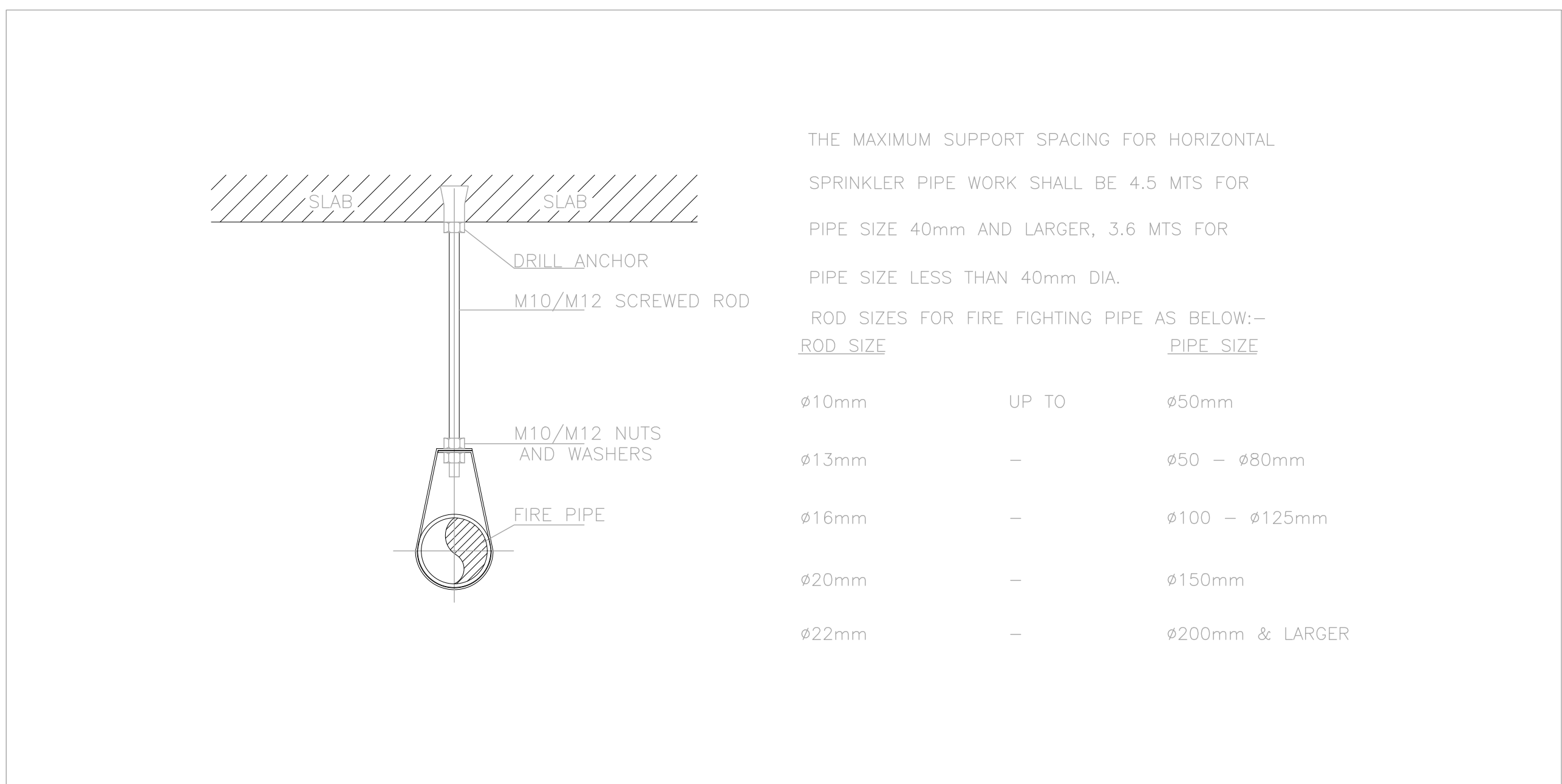
DETAIL 03

VRF INSTALLATION DETAIL



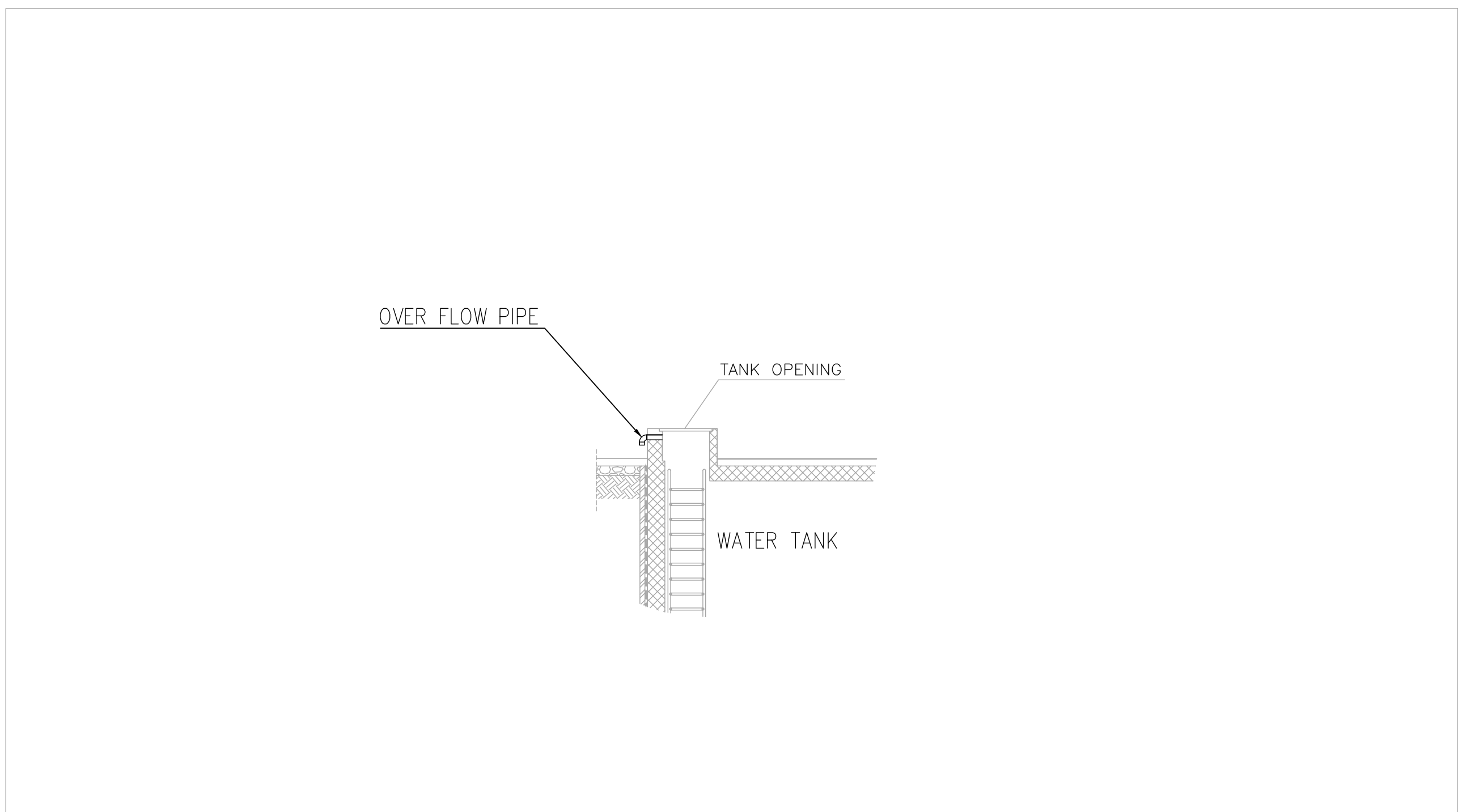
DETAIL 04

TYPICAL TRENCH



DETAIL 05

PIPE HANGER DETAIL



DETAIL 06

OVER FLOW DETAIL



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	MECHANICAL DETAILS 04				
DRAWN BY			:	MECH.T	
DESIGNED BY			:	A.Q	
CHECKED BY			:	F.N	
APPROVED BY			:	F.N	
SCALE			:	NTS	
DATE			:	DEC.-2023	
PROJECT No.			:	DRAWING No.	
			:	M-1103	

