

# HA. HOARAFUSHI HOSPITAL BUILDING SERVICES DRAWINGS

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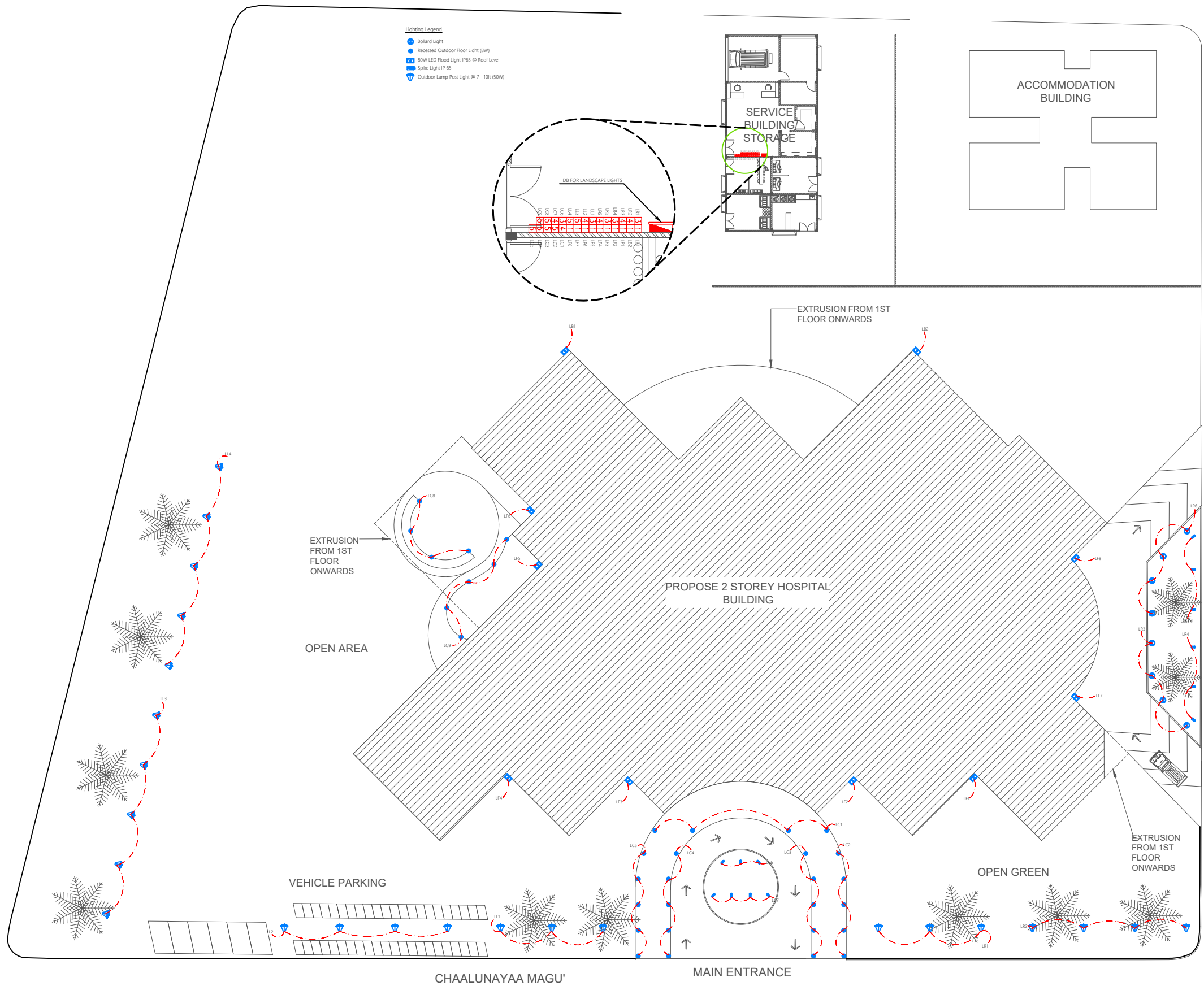
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CLIENT: MINISTRY OF HEALTH

DESIGN : SURVEY , DESIGN AND DEVELOPMENT SECTION | MTCC PLC

DATE: 19 AUGUST 2020

LOCATION: HA. HOARAFUSHI



# LIGHTING LAYOUT | LANDSCAPE

SCALE 1:500

PROJECT TITLE	HA. HOARAFUSHI HOSPITAL BUILDING
DRAWING TITLE	AS GIVEN

CLIENT & ADDRESS	MINISTRY OF HEALTH
PROJECT LOCATION	HA. HOARAFUSHI

DESIGN ARCHITECT: SURVEYING, DESIGN AND DEVELOPMENT SECTION	ENGINEER: IBRAHIM THOAM	STRUCTURAL CHECKER: ABDULLA RAMEEZ	PAPER A3	SCALE AS GVN
	ARCHITECT: AMINATH ZOONA	ARCHITECTURAL CHECKER: IRFAN WAHEED	DATE 19-08-2020	
	DRAWN BY: RASSAM	CHECKED BY: AMINATH SAMAHA		

REV	DESCRIPTION	DATE	APPR

SHEET IDENTIFICATION NUMBER	L1.01
SHEET TITLE	01



Lighting Legend

- 600 X 600 Rectangular LED Panel
- Recessed Baffle Trim Led Ceiling Light Type 2 (10w)
- Ceiling Recessed Spot Light (5w)
- Ceiling Light (12W)
- Bollard Light
- Pendant Light (12W)
- Recessed Outdoor Floor Light (3W)
- Weather Proof Wall Light IP55 (12W)

Decorative Pendant Light

LED Strip Light

LED Light Incorporated In Medical Bed Head Unit

Light Switch (1 Gang - 4 Gang)

Ceiling Fan Switch With Controller

False Ceiling

42" To 48" Ceiling Fan

96" To 120" Ceiling Fan

NON SKID  
PORCELAIN TILES

NON SKID PORCELAIN  
RISER TILE

LED LIGHT STRIP IN  
WARM COLOR

DETAIL A

LED Strip at floor level

REFER TO DETAIL A

REFER TO DETAIL

AT ROOF LEVEL

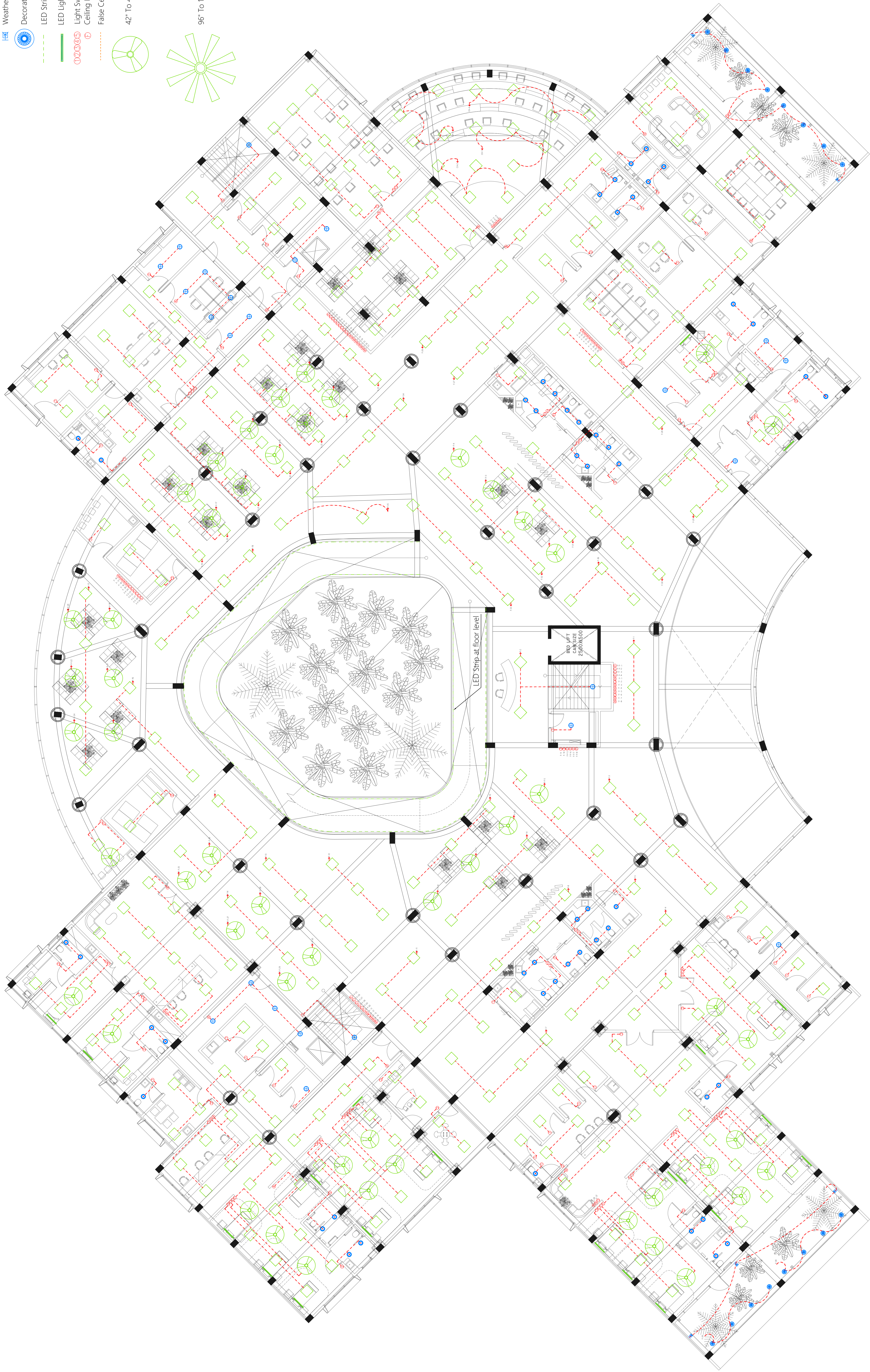
LIGHTING LAYOUT | GROUND FLOOR PLAN

SCALE 1:100



Lighting Legend

- 600 X 600 Rectangular LED Panel
- Recessed Baffle Trim Led Ceiling Light Type 2 (10w)
- Ceiling Recessed Spot Light (5w)
- Ceiling Light (12W)
- Bollard Light
- Pendant Light (12W)
- Recessed Outdoor Floor Light (3W)
- Weather Proof Wall Light IP55 (12W)
- Decorative Pendant Light
- LED Strip Light
- LED Light Incorporated in Medical Bed Head Unit
- Light Switch (1 Gang - 4 Gang)
- Ceiling Fan Switch With Controller
- False Ceiling
- 42" To 48" Ceiling Fan
- 96" To 120" Ceiling Fan



	PROJECT PA HOSPITAL HOSPITAL BUILDING DESIGNED BY ALSSEN	CLIENT MINISTRY OF HEALTH PA HOSPITAL	DESIGNER PA HOSPITAL DESIGNER PA HOSPITAL	PROJECT CODE PA HOSPITAL PROJECT CODE PA HOSPITAL	DATE 2024-12-01	SCALE 1:100	SHEET NO. L1.03

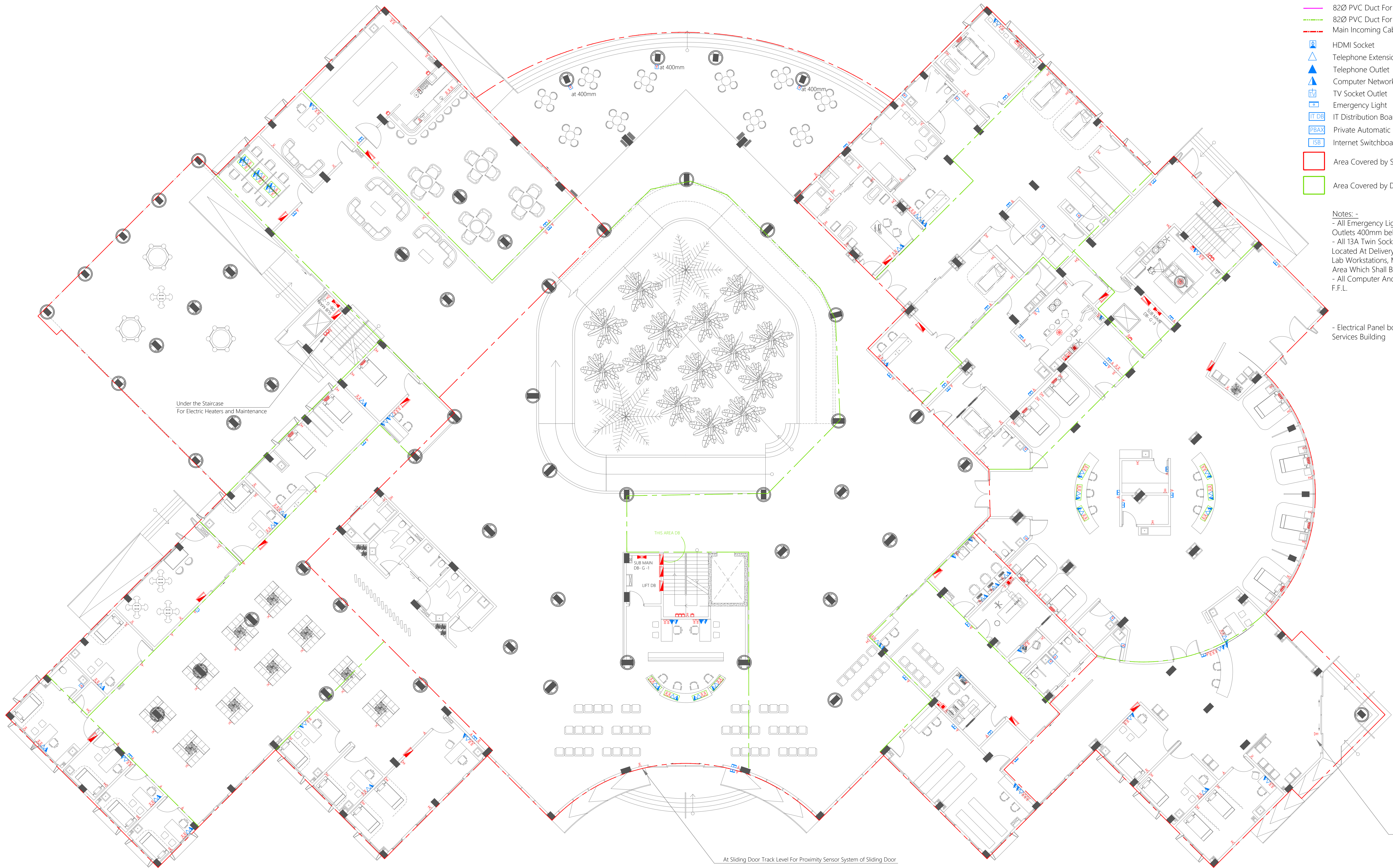
LIGHTING LAYOUT | FIRST FLOOR PLAN



PROJECT INFORMATION	
PROJECT NAME	PROJECT NUMBER
CLIENT NAME	CLIENT ADDRESS
DESIGNER NAME	DESIGNER ADDRESS
DATE	SCALE
REVISIONS	
NO.	DESCRIPTION
1	ISSUED FOR PERMIT
2	ISSUED FOR CONSTRUCTION
3	ISSUED FOR AS-BUILT
4	ISSUED FOR FINAL
5	ISSUED FOR ARCHIVE
6	ISSUED FOR CLOSURE
7	ISSUED FOR DECOMMISSION
8	ISSUED FOR DISPOSAL
9	ISSUED FOR RECYCLING
10	ISSUED FOR REUSE
11	ISSUED FOR REPAIR
12	ISSUED FOR REPLACEMENT
13	ISSUED FOR REMOVAL
14	ISSUED FOR RESTORATION
15	ISSUED FOR RETENTION
16	ISSUED FOR REUSE
17	ISSUED FOR REPAIR
18	ISSUED FOR REPLACEMENT
19	ISSUED FOR REMOVAL
20	ISSUED FOR RESTORATION
21	ISSUED FOR RETENTION
22	ISSUED FOR REUSE
23	ISSUED FOR REPAIR
24	ISSUED FOR REPLACEMENT
25	ISSUED FOR REMOVAL
26	ISSUED FOR RESTORATION
27	ISSUED FOR RETENTION
28	ISSUED FOR REUSE
29	ISSUED FOR REPAIR
30	ISSUED FOR REPLACEMENT
31	ISSUED FOR REMOVAL
32	ISSUED FOR RESTORATION
33	ISSUED FOR RETENTION
34	ISSUED FOR REUSE
35	ISSUED FOR REPAIR
36	ISSUED FOR REPLACEMENT
37	ISSUED FOR REMOVAL
38	ISSUED FOR RESTORATION
39	ISSUED FOR RETENTION
40	ISSUED FOR REUSE
41	ISSUED FOR REPAIR
42	ISSUED FOR REPLACEMENT
43	ISSUED FOR REMOVAL
44	ISSUED FOR RESTORATION
45	ISSUED FOR RETENTION
46	ISSUED FOR REUSE
47	ISSUED FOR REPAIR
48	ISSUED FOR REPLACEMENT
49	ISSUED FOR REMOVAL
50	ISSUED FOR RESTORATION
51	ISSUED FOR RETENTION
52	ISSUED FOR REUSE
53	ISSUED FOR REPAIR
54	ISSUED FOR REPLACEMENT
55	ISSUED FOR REMOVAL
56	ISSUED FOR RESTORATION
57	ISSUED FOR RETENTION
58	ISSUED FOR REUSE
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61	ISSUED FOR REMOVAL
62	ISSUED FOR RESTORATION
63	ISSUED FOR RETENTION
64	ISSUED FOR REUSE
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67	ISSUED FOR REMOVAL
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69	ISSUED FOR RETENTION
70	ISSUED FOR REUSE
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72	ISSUED FOR REPLACEMENT
73	ISSUED FOR REMOVAL
74	ISSUED FOR RESTORATION
75	ISSUED FOR RETENTION
76	ISSUED FOR REUSE
77	ISSUED FOR REPAIR
78	ISSUED FOR REPLACEMENT
79	ISSUED FOR REMOVAL
80	ISSUED FOR RESTORATION
81	ISSUED FOR RETENTION
82	ISSUED FOR REUSE
83	ISSUED FOR REPAIR
84	ISSUED FOR REPLACEMENT
85	ISSUED FOR REMOVAL
86	ISSUED FOR RESTORATION
87	ISSUED FOR RETENTION
88	ISSUED FOR REUSE
89	ISSUED FOR REPAIR
90	ISSUED FOR REPLACEMENT
91	ISSUED FOR REMOVAL
92	ISSUED FOR RESTORATION
93	ISSUED FOR RETENTION
94	ISSUED FOR REUSE
95	ISSUED FOR REPAIR
96	ISSUED FOR REPLACEMENT
97	ISSUED FOR REMOVAL
98	ISSUED FOR RESTORATION
99	ISSUED FOR RETENTION
100	ISSUED FOR REUSE

ELECTRICAL LAYOUT | GROUND FLOOR PLAN

SCALE 1:100



- Legend
- 13A Twin Socket
  - 13A Twin Socket With USB Ports
  - 15A Switch @ 1200mm From F.F.L.
  - 15A Socket In Polycarbonate Box
  - 15A Power Socket
  - Power Outlets On Bed Head Unit
  - Power Outlets On Medical Pendant
  - 13A Power Socket
  - 13A Power Socket In Polycarbonate Box at 1100MM UNLESS INDICATED OTHERWISE
  - TPN Isolator
  - Distribution Board
  - Sub Main Distribution Board
  - 82Ø PVC Duct For Tel./Internet Cable Lead In Below Ground Slab
  - 82Ø PVC Duct For TV Cable Lead In Below Ground Slab
  - Main Incoming Cable For Power In 110Ø PVC Duct Below Ground Slab
  - HDMI Socket
  - Telephone Extension
  - Telephone Outlet
  - Computer Network Outlet
  - TV Socket Outlet
  - Emergency Light
  - IT Distribution Board
  - Private Automatic Branch Exchange (PABX)
  - Internet Switchboard
  - Area Covered by Sub Main Distribution Board
  - Area Covered by Distribution Board

Notes:-

- All Emergency Lights, 13A Power Sockets and TV Socket Outlets 400mm below False Ceiling level
- All 13A Twin Sockets At 300mm From F.F.L. Except Located At Delivery Room, Theater, Resuscitation Room, Lab Workstations, Medical Preparation Area and Pantry Area Which Shall Be At 1200mm From F.F.L.
- All Computer And Telephone Points At 300mm From F.F.L.

- Electrical Panel board with meter shall be installed in Services Building

At Sliding Door Track Level For Proximity Sensor System of Sliding Door

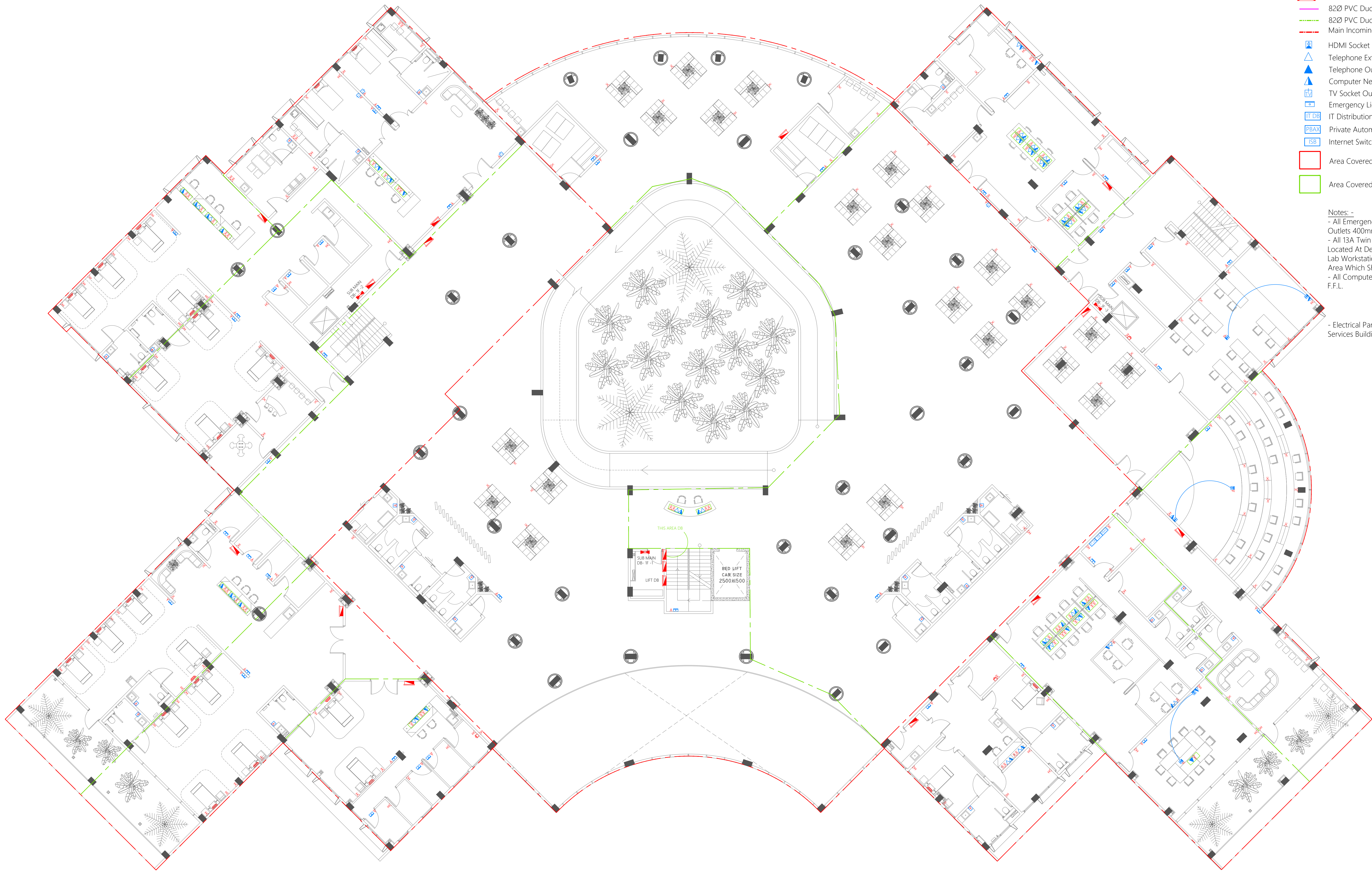
At Sliding Door Track Level For Proximity Sensor System of Sliding Door



PROJECT INFORMATION	
PROJECT NAME	PROJECT NUMBER
CLIENT INFORMATION	
CLIENT NAME	CLIENT ADDRESS
CLIENT PHONE	CLIENT EMAIL
DESIGNER INFORMATION	
DESIGNER NAME	DESIGNER ADDRESS
DESIGNER PHONE	DESIGNER EMAIL
DATE	
DATE	DATE
E.I/2	

ELECTRICAL LAYOUT | FIRST FLOOR PLAN

SCALE 1:100



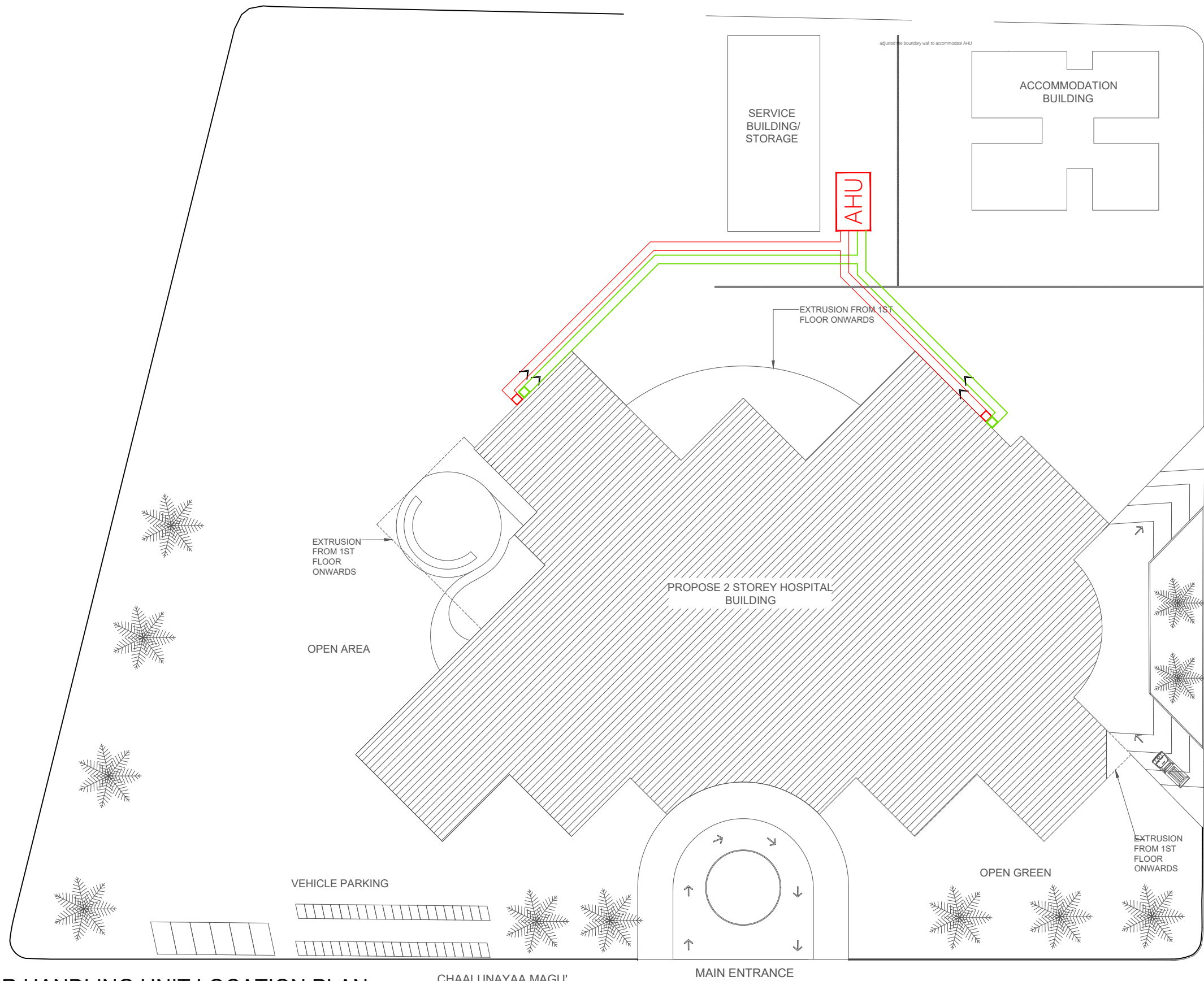
Legend

- 13A Twin Socket
- 13A Twin Socket With USB Ports
- 15A Switch @ 1200mm From F.F.L.
- 15A Socket In Polycarbonate Box
- 15A Power Socket
- Power Outlets On Bed Head Unit
- Power Outlets On Medical Pendant
- 13A Power Socket
- 13A Power Socket In Polycarbonate Box at 1100MM UNLESS INDICATED OTHERWISE
- TPN Isolator
- Distribution Board
- Sub Main Distribution Board
- 82Ø PVC Duct For Tel./Internet Cable Lead In Below Ground Slab
- 82Ø PVC Duct For TV Cable Lead In Below Ground Slab
- Main Incoming Cable For Power In 110Ø PVC Duct Below Ground Slab
- HDMI Socket
- Telephone Extension
- Telephone Outlet
- Computer Network Outlet
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- Area Covered by Sub Main Distribution Board
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Notes:-  
- All Emergency Lights, 13A Power Sockets and TV Socket Outlets 400mm below False Ceiling level  
- All 13A Twin Sockets At 300mm From F.F.L. Except Located At Delivery Room, Theater, Resuscitation Room, Lab Workstations, Medical Preparation Area and Pantry Area Which Shall Be At 1200mm From F.F.L.  
- All Computer And Telephone Points At 300mm From F.F.L.


- Electrical Panel board with meter shall be installed in Services Building





A/C LAYOUT | AIR HANDLING UNIT LOCATION PLAN  
SCALE 1:500

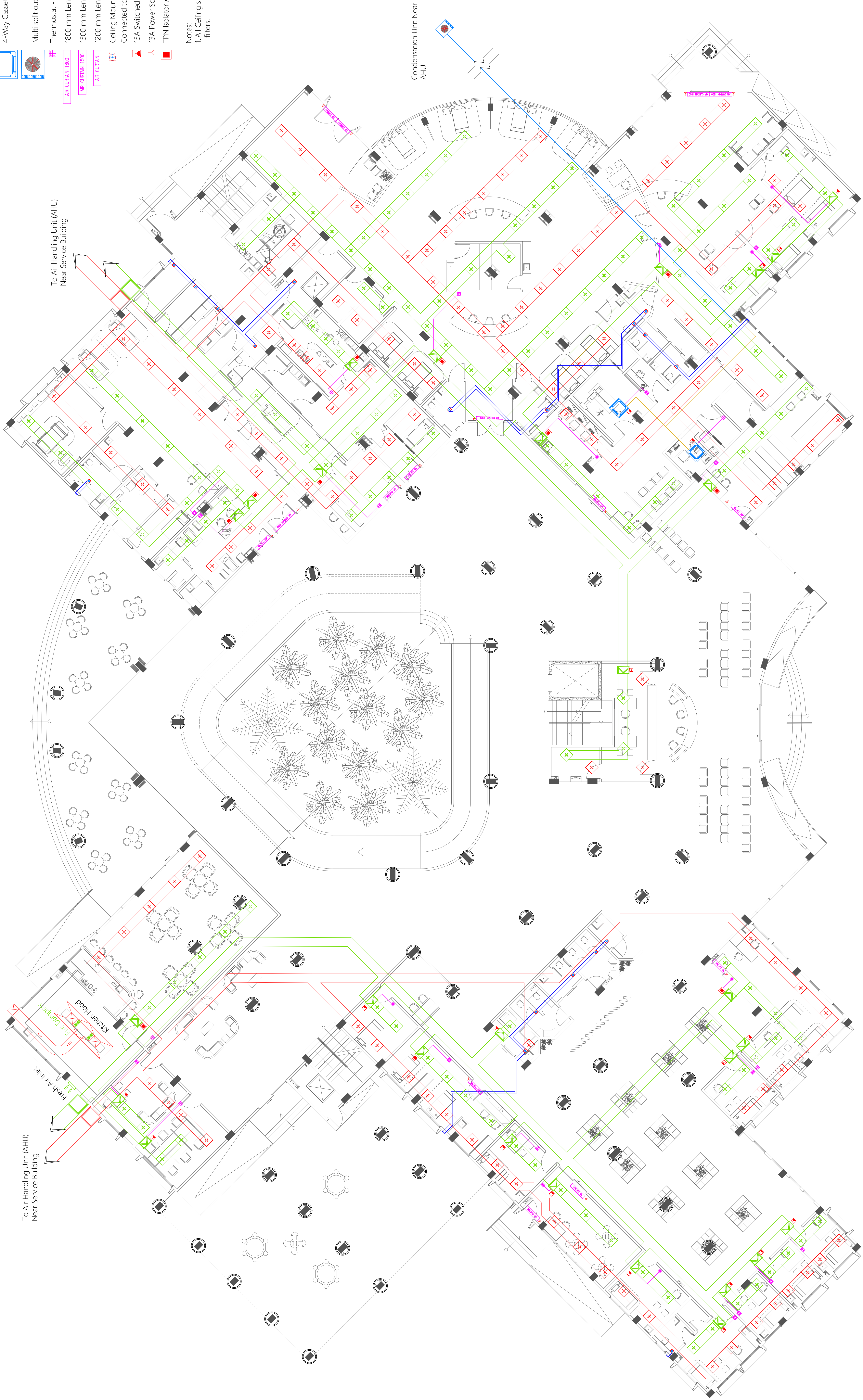


 <b>MTCC</b> MALDIVES TRANSPORT & CONTRACTING COMPANY PLC <small>SURVEY, DESIGN AND DEVELOPMENT SECTION CONSTRUCTION AND PROJECTS MANAGEMENT DEPARTMENT MTCC TOWER, BODU THAKURUPPANA MAGU, MALE 20181, REPUBLIC OF MALDIVES. PHONE: +(960) 332 6822 FAX: +(960) 333 3835 E-MAIL: design.development@mtcc.com.mv</small>	PROJECT TITLE HA. HOARAFUSHI HOSPITAL BUILDING	CLIENT & ADDRESS MINISTRY OF HEALTH	DESIGN ARCHITECT: SURVEYING, DESIGN AND DEVELOPMENT SECTION				REV	DESCRIPTION	DATE	APPR	SHEET IDENTIFICATION NUMBER <b>M1.01</b>  SHEET TITLE 06
	DRAWING TITLE AS GIVEN	PROJECT LOCATION HA. HOARAFUSHI	ENGINEER: IBRAHIM THOAM	STRUCTURAL CHECKER: ABDULLA RAMEEZ							
			ARCHITECT: AMINATH ZOONA	ARCHITECTURAL CHECKER: IRFAN WAHEED	PAPER A3	SCALE AS GVN					
			DRAWN BY: RASSAM	CHECKED BY: AMINATH SAMAHA	DATE 19-08-2020						



Legend

- Refrigerant Pipes above False Ceiling
- Refrigerant Pipes Below Ground
- Ceiling Concealed Airconditioner
- Ceiling Surface Supply Air Grill
- Ceiling Surface Return Air Grill
- 4-Way Cassette Air Conditioner
- Multi split outdoor condensing unit (floor standing)
- Thermostat - Remote Controller
- 1800 mm Length Air Curtain
- 1500 mm Length Air Curtain
- 1200 mm Length Air Curtain
- Ceiling Mounted Exhaust Fan
- Connected to Respective Light Switches for the same area
- 15A Switched Socket above False Ceiling
- 13A Power Socket at Air Curtain Level
- TPN Isolator Above False Ceiling
- Notes:  
1. All Ceiling surface grills should be equipped with HEPA filters.

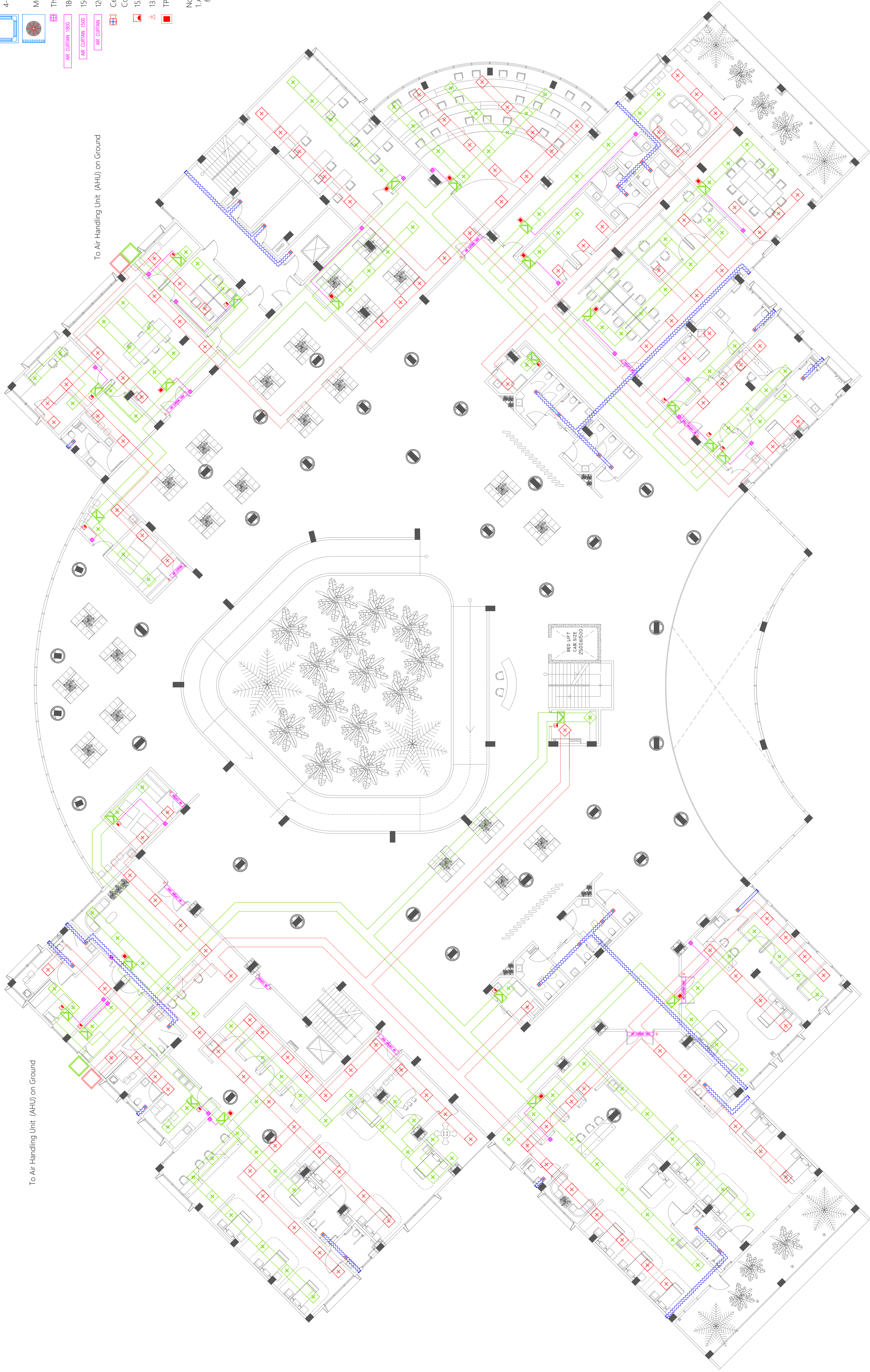
















Legend

- Refrigerant Pipes above False Ceiling
- Refrigerant Pipes Below Ground
- Ceiling Concealed Airconditioner
- Ceiling Surface Supply Air Grill
- Ceiling Surface Return Air Grill
- 4-Way Cassette Air Conditioner
- Multi split outdoor condensing unit (floor standing)
- Thermostat - Remote Controller
- 1800 mm Length Air Curtain
- 1500 mm Length Air Curtain
- 1200 mm Length Air Curtain
- Ceiling Mounted Exhaust Fan
- Connected to Respective Light Switches for the same area
- 15A Switched Socket above False Ceiling
- 13A Power Socket at Air Curtain Level
- TPN Isolator Above False Ceiling

Notes:  
1. All Ceiling surface grills should be equipped with HEPA filters.

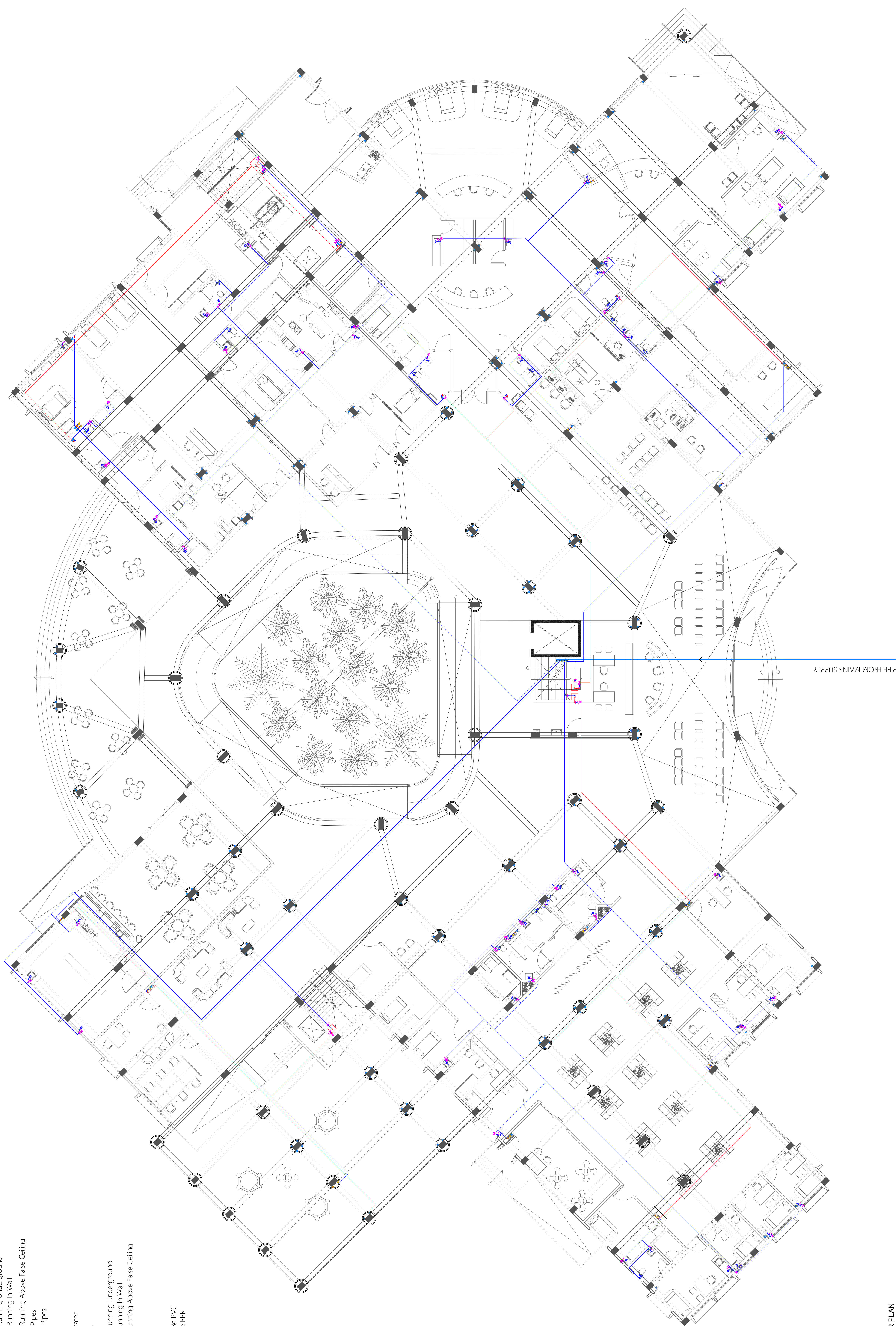




- |  |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|
| 160° Cold Water Supply To Basin Faucet   | 250° Cold Water Supply Pipes Running Underground                                    | 200° Cold Water Supply Pipes Running In Wall  | 200° Cold Water Supply Pipes Running Above False Ceiling                            | 160° Rain Water Supply (RWS) Pipes  | 250° Rain Water Supply Pipes  | 230° Hot Water Supply Pipes   | 200° Floor Standing Water Heater  | 100° Wall-Hung Water Heater   | 400° Hot Water Supply Pipes Running Underground                                     | 120° Hot Water Supply Pipes Running In Wall   | 120° Hot Water Supply Pipes Running Above False Ceiling                             |
|  |  |  |  |  |  |  |  |  |  |  |  |

Notes: -

- All Cold Water Pipes Should Be PVC
- SII Hot Water Pipes Should Be PPR



PIPE FROM MAINS SUPPLY

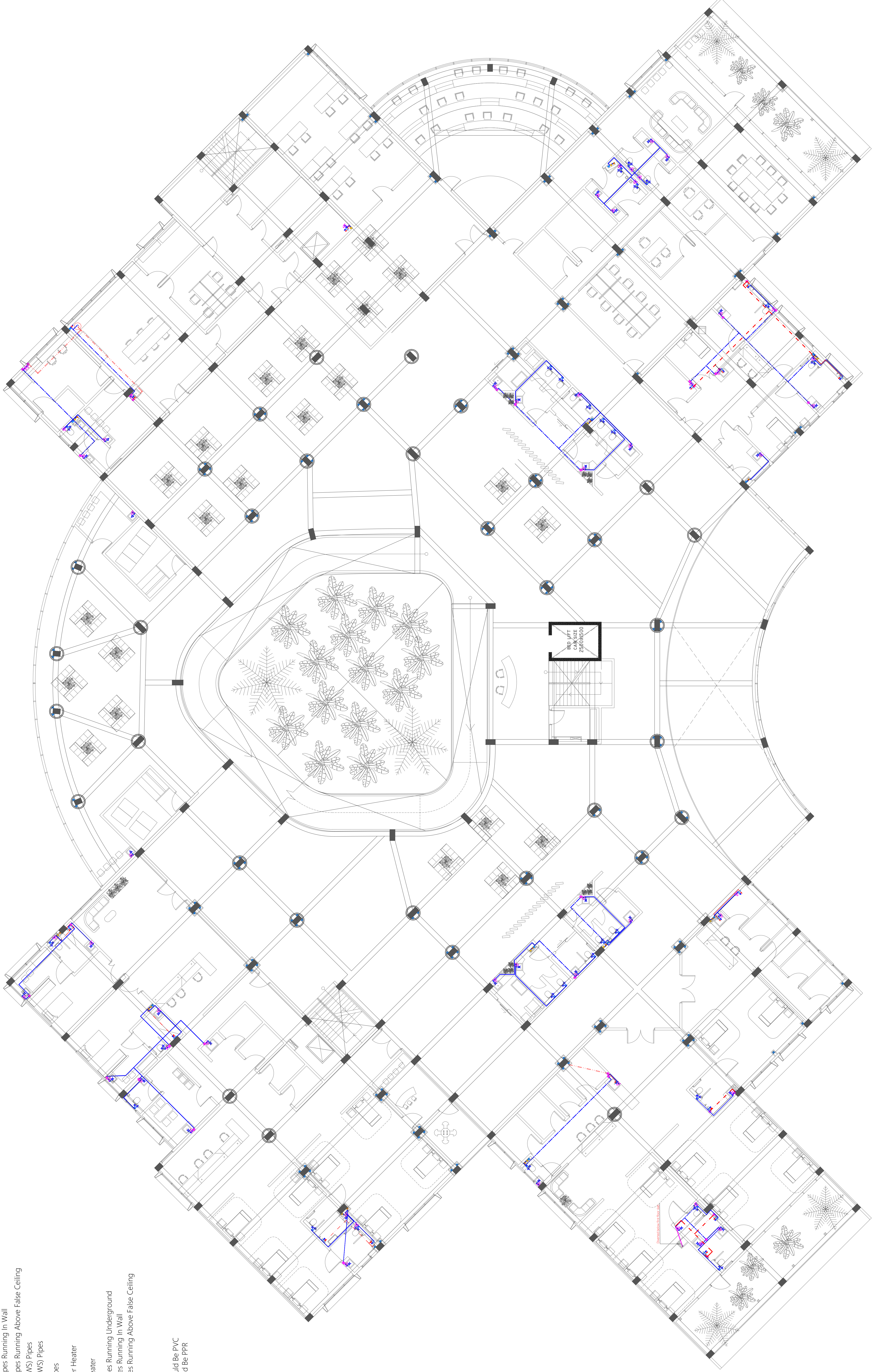


Legend

- 160 Cold Water Supply To Basin Faucet
- 160 Cold Water Supply To Wall Tap
- 160 Cold Water Supply To Sink Tap
- 160 Cold Water Supply To Bidet Shower
- 160 Cold Water Supply To Cistern
- 160 Cold Water Supply & 120 Hot Water Supply To Shower Mixer
- 160 Cold Water Supply & 120 Hot Water Supply To Basin Mixer Faucet
- 200 Cold Water Supply & 200 Hot Water Supply To Bedpan Washer
- 160 Cold Water Supply & 120 Hot Water Supply To Scrub Sink
- Gate Valve
- Rise In Wall
- Drop In Wall
- 250 Cold Water Supply Pipes Running Underground
- 200 Cold Water Supply Pipes Running In Wall
- 200 Cold Water Supply Pipes Running Above False Ceiling
- 160 Rain Water Supply (RWS) Pipes
- 250 Hot Water Supply (RWS) Pipes
- 250 Hot Water Supply Pipes
- 200L Floor Standing Water Heater
- 100L Wall-Hung Water Heater
- 400 Hot Water Supply Pipes Running Underground
- 120 Hot Water Supply Pipes Running In Wall
- 120 Hot Water Supply Pipes Running Above False Ceiling

Notes: -

- All Cold Water Pipes Should Be PVC
- All Hot Water Pipes Should Be PPR



	PROJECT PA HOSPITAL HOSPITAL BUILDING	DESIGNED BY AL-SAYED	CHECKED BY AL-SAYED	DRAWN BY AL-SAYED	DATE 2023/01/01	SCALE 1:100	SHEET NO. P1 02	TOTAL SHEETS 10	PROJECT NO. P1 02	SHEET NO. P1 02

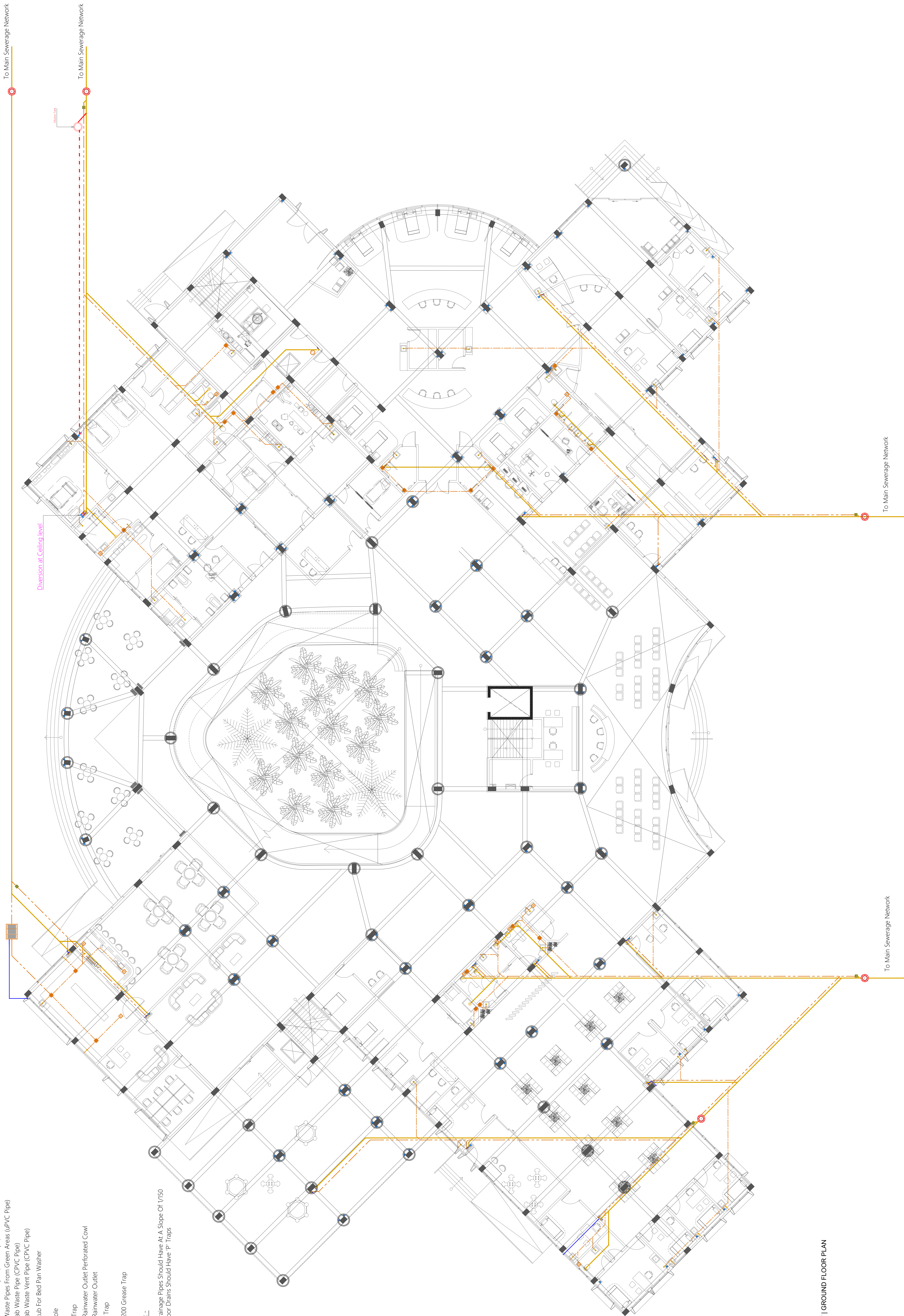


Legend

- Floor Drain
- Floor Gully
- 820 Stub For Washing Machine Or Tub
- 1100 Soil Pipe (uPVC Pipe)
- 1100 Soil Vent Pipe (uPVC Pipe)
- 820 Waste Pipe (uPVC Pipe)
- 820 Waste Vent Pipe (uPVC Pipe)
- 400 Waste Pipe (uPVC Pipe)
- 1100 Waste Pipe For Laundry (uPVC Pipe)
- 630 Manhole Vent Pipe (uPVC Pipe)
- 1100 Rain Water Pipes (uPVC Pipe)
- 1100 Waste Pipes From Green Areas (uPVC Pipe)
- 820 Lab Waste Pipe (CPVC Pipe)
- 820 Lab Waste Vent Pipe (CPVC Pipe)
- 900 Stub For Bed Pan Washer
- Manhole
- Gully Trap
- 1100 Rainwater Outlet Perforated Cowl
- 1100 Rainwater Outlet
- Bottle Trap
- 900x1200 Grease Trap

Notes:-

- All Drainage Pipes Should Have At A Slope Of 1/150
- All Floor Drains Should Have 1" Traps



Diversion at Ceiling level


To Main Sewerage Network

To Main Sewerage Network

To Main Sewerage Network

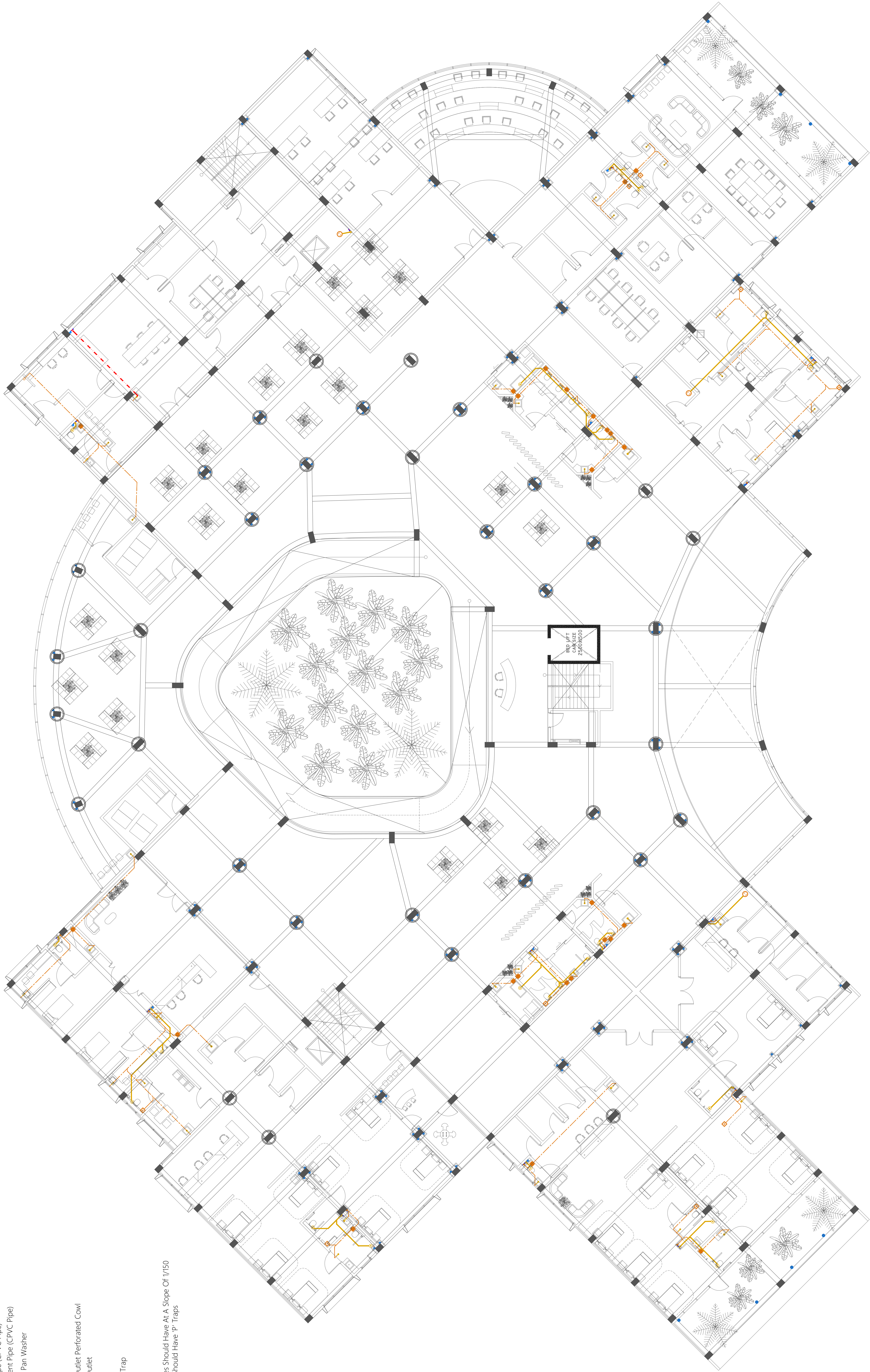
To Main Sewerage Network

WASTE WATER LAYOUT | GROUND FLOOR PLAN

	PROJECT PA HOSPITAL HOSPITAL BUILDING	PREPARED BY ARCHITECT AL-SAYED	DESIGNED BY PA HOSPITAL	DATE 2023/05/01	REVISION NO.	DATE	BY	APP. BY	DATE	BY	APP. BY



- Legend**
- Floor Drain
  - Floor Gully
  - 820 Stub For Washing Machine Or Tub
  - 1100 Soil Pipe (uPVC Pipe)
  - 1100 Soil Vent Pipe (uPVC Pipe)
  - 820 Waste Pipe (uPVC Pipe)
  - 820 Waste Vent Pipe (uPVC Pipe)
  - 400 Waste Pipe (uPVC Pipe)
  - 1100 Waste Pipe For Laundry (uPVC Pipe)
  - 630 Manhole Vent Pipe (uPVC Pipe)
  - 1100 Rain Water Pipes (uPVC Pipe)
  - 1100 Waste Pipes From Green Areas (uPVC Pipe)
  - 820 Lab Waste Pipe (CPVC Pipe)
  - 820 Lab Waste Vent Pipe (CPVC Pipe)
  - 900 Stub For Bed Pan Washer
  - Manhole
  - Gully Trap
  - 1100 Rainwater Outlet Perforated Cowl
  - 1100 Rainwater Outlet
  - Bottle Trap
  - 900x1200 Grease Trap
- Notes :-**
- All Drainage Pipes Should Have At A Slope Of 1/150
  - All Floor Drains Should Have "P" Traps



	PROJECT PA HOSPITAL HOSPITAL BUILDING	DESIGNED BY AL SHEN	CHECKED BY PA HOSPITAL	DRAWN BY AL SHEN	DATE 10/10/2020	SCALE 1:100	SHEET NO. P1.04	TOTAL SHEETS 1	PROJECT NO. 10/10/2020	SHEET NO. P1.04

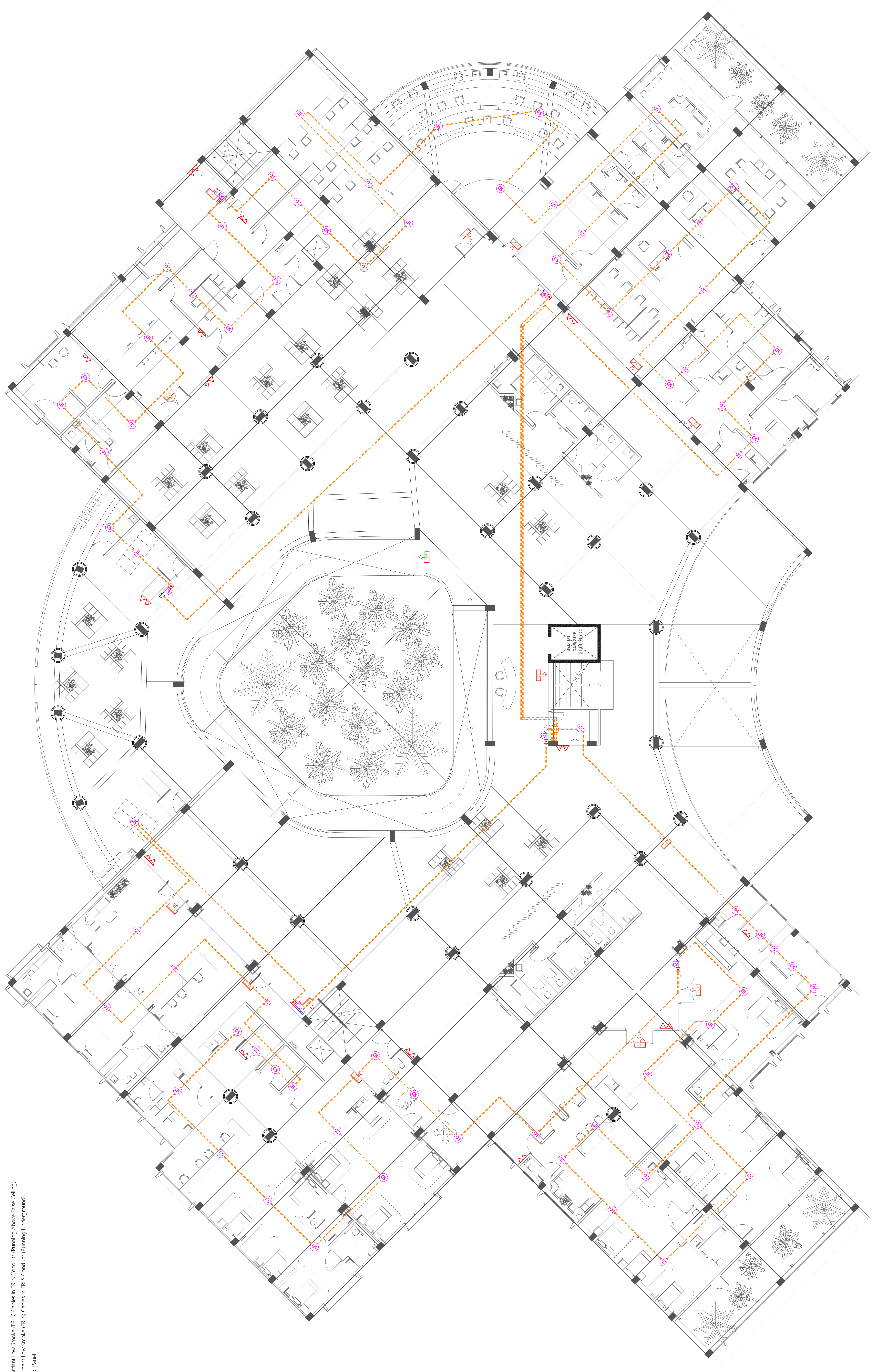
WASTE WATER LAYOUT | FIRST FLOOR PLAN







Wet Chemical Extinguisher (load 6L) in Polycarbonate Enclosure  
CO<sub>2</sub> Extinguisher (load 2kg) in Polycarbonate Enclosure  
DCP Extinguisher (load 2kg) in Polycarbonate Enclosure  
H<sub>2</sub>O Extinguisher (load 9L) in Polycarbonate Enclosure  
Manual Call Point  
Smoke Detector  
Heat Detector  
Beacon  
Sounder Bell  
2.5mm<sup>2</sup> Fire Retardant Low Smoke (FRLS) Cables in FRLS Conduits (Running Above False Ceiling)  
2.5mm<sup>2</sup> Fire Retardant Low Smoke (FRLS) Cables in FRLS Conduits (Running Underground)  
FACP  
Fire Alarm Control Panel  
Fire Blanket  
Exit Sign



	PROJECT: PA HOSPITAL BUILDING		PROJECT: PA HOSPITAL BUILDING		PROJECT: PA HOSPITAL BUILDING		PROJECT: PA HOSPITAL BUILDING		
	DESIGNER: AL SIVEN		DESIGNER: AL SIVEN		DESIGNER: AL SIVEN		DESIGNER: AL SIVEN		
	DRAWN BY: AL SIVEN		DRAWN BY: AL SIVEN		DRAWN BY: AL SIVEN		DRAWN BY: AL SIVEN		
	CHECKED BY: AL SIVEN		CHECKED BY: AL SIVEN		CHECKED BY: AL SIVEN		CHECKED BY: AL SIVEN		
DATE: 2023/05/01		DATE: 2023/05/01		DATE: 2023/05/01		DATE: 2023/05/01		DATE: 2023/05/01	
BY: 2023/05/01		BY: 2023/05/01		BY: 2023/05/01		BY: 2023/05/01		BY: 2023/05/01	
F1.02		F1.02		F1.02		F1.02		F1.02	

FIRE SAFETY LAYOUT | FIRST FLOOR PLAN