

BUILDING SERVICES DRAWINGS OF
PROPOSED 03 STOREY BUILDING AT

South Regional

Customs Head Office Addu City, Maradhoo























For - Customs Maldives














By Epoch Associates Pvt. Ltd



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A: 4A, 4th Floor, M. Ahigasdhoshuge, Fareedhee Magu Male' Republic of Maldives

POWER LEGEND












	13A Twin Socket
	13A Twin Socket In Floor Mount Pop-up Box
	13A Twin Socket With USB Ports
	13A Universal Twin Socket
	15A Switched Socket @ H.L.
	15A Socket In Polycarbonate Box
	15A Switch @ 1200mm From F.F.L.
	Shaver Socket For Toilets Only At 1000mm From F.F.L.
	20A Switched Neon Indicator For Electric Water Heater
	13A Power Socket
	13A Power Socket in Weatherproof Polycarbonate Enclosure At 1200mm From F.F.L.
	15A Cooker Socket 300mm From F.F.L.
	Distribution Board
	TPN Isolator
	High Level
	Angular Camera
	Digital/network Video Recorder
	Security Monitor
	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
	Boundary Covered By Distribution Board At The Respective Area

	Internet Switchboard
	IT Distribution Board
	Medianet Booster
	Computer Network Outlet
	Twin Computer Network Outlet
	Computer Network Outlet In Floor Mount Pop-up Box
	TV Socket Outlet
	HDMI Socket
	Emergency Light
	Private Automatic Branch Exchange (PABX)
	Push Button
	Biometric Door Lock With Card Reader at 1100
	Wireless Access Point

Notes: -

- All 13A Power Outlets For Kitchen Hood Or Under Cabinet Or Wardrobe Lights At 1800mm From F.F.L.
- All Twin Sockets At 300mm From F.F.L. Except Located At Kitchen Cupboard Area Which Shall Be At 1200mm From F.F.L.
- All Computer, TV And Telephone Points At 300mm From F.F.L.
- All 20A Switched Neon Indicator At 1200mm From F.F.L.















ACV LEGEND

	Variable Air Volume Box
	Ceiling Surface Supply Air Grill
	Ceiling Surface Return Air Grill
	Thermostat Connection Line
	Drain Line
	Refrigerant Line
	Supply Line
	Return Line
	Thermostat - Remote Controller
	1800 mm Length Air Curtain
	Ceiling Mounted Exhaust Fan

Notes:





















1. All Ceiling surface return air grills and AHU should be equipped with HEPA filters.
2. Number of Ceiling Surface Air Grills and duct layouts shall be confirmed from Manufacturers and consultants.
3. Duct size and ceiling surface return and supply grills size to be confirmed from Suppliers and Manufacturers.
4. VAV box specifications to be confirmed from suppliers and manufacturers.
5. VAV refrigerant pipes to be connected to AHU.
6. VAV condensate drain pipes to be connected to wash basin or kitchen sink, 25 Ø condensate drain pipe is extended in 32 Ø flex conduit into 40 Ø waste pipe of respective basin or sink.
7. Thermostat connection depends on the VAV specifications.

FDP LEGEND





























	CO ₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
	DCP Extinguisher (load: 6kg) In Polycarbonate Enclosure
	H ₂ O Extinguisher (load: 9L) In Polycarbonate Enclosure
	Manual Call Point
	Smoke Detector
	Heat Detector
	Beacon
	Sounder Bell
	Fire Blanket
	2.5mm ² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits
	Fire Alarm Control Panel
	Exit Sign
	Landing Valve
	Landing Valve

1. ALL DRY RISER PIPES SHOULD BE GALVANIZED, SCHEDULE 40.
2. ALL DRY RISER PIPES SHALL BE PAINTED IN RED AS PER REGULATION.
3. ALL SUPPORT/BACKET SHALL BE HOT DIPPED GALVANIZED.

LIGHTING LEGEND

	Ceiling Light (18W)
	Ceiling Light (12W)
	Recessed Ceiling Light (12W)
	Recessed Ceiling Light (8W)
	Ceiling Recessed Light (18W)
	Ceiling Down Light (18W) - Weather Proof
	Wall Light - Weather Proof Ip55 (low Level 8W)
	Pendant Light (12W)
	Weather Proof Wall Light IP55 (12W)
	Indoor Wall Light (18W)
	Night Light (6W)
	Bollard Light IP65 (12W)
	60W, HPS, Low Bay Light
	Spike Light
	Ceiling Mount Spot Light (3W) - Weather Proof
	600 X 600 Ceiling Recessed LED Panel
	Pendant Pool Table Light
	Ceiling Recessed Spot Light (3W)
	Light Switch (1 Gang - 4 Gang)
	Ceiling Mounted Exhaust Fan 90m3/hr



















PLUMBING LEGEND

	16Ø Cold Water Supply To Basin Faucet
	16Ø Cold Water Supply To Wall Tap
	16Ø Cold Water Supply To Bib Tap
	16Ø Cold Water Supply To Washing Machine Tap
	16Ø Cold Water Supply To Sink Tap
	16Ø Cold Water Supply To Bidet Shower
	16Ø Cold Water Supply To Cistern
	16Ø Cold Water Supply & 12Ø Hot Water Supply To Shower Mixer
	Instant Water Heater Above False Ceiling
	Gate Valve
	Rise In Wall
	Drop In Wall
	MWSC Meter
	25Ø Cold Water Supply Pipes Running Underground
	20Ø Cold Water Supply Pipes Running In Wall
	20Ø Cold Water Supply Pipes Running Above False Ceiling
	20Ø Cold Water Supply Pipes Running Underground
	12Ø Hot Water Supply Pipes
	25Ø Ground Water Supply Pipes Running Above False Ceiling
	16Ø Rain Water Supply Pipes
	25Ø Rain Water Supply Pipes
	16Ø Rain Water Supply To Bib Tap
	16Ø Rain Water Supply (RWS) Pipes
	Rain Water Pump
	Well / Ground Water Pump (Davey or equivalent)
	Angle Valve with cap for Ground Water Supply
	Foot Valve With Strainer
	Non Return Valve

Notes: -

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

DRAINAGE LEGEND

	Floor Drain
	Floor Gully
	40Ø Stub For Washing Machine Or Tub
	110Ø Soil Pipe (uPVC Pipe)
	110Ø Soil Vent Pipe (uPVC Pipe)
	82Ø Waste Pipe (uPVC Pipe)
	82Ø Waste Vent Pipe (uPVC Pipe)
	40Ø Waste Pipe (uPVC Pipe)
	63Ø Manhole Vent Pipe (uPVC Pipe)
	110Ø Rain Water Pipes (uPVC Pipe)
	Manhole
	Gully Trap
	110Ø Rainwater Outlet Perforated Cowl
	110Ø Rainwater Outlet
	Rodding Eye
	Clean Out Point
	Bottle Trap
	Bottle Trap For Sink

Notes: -

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

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December 2020

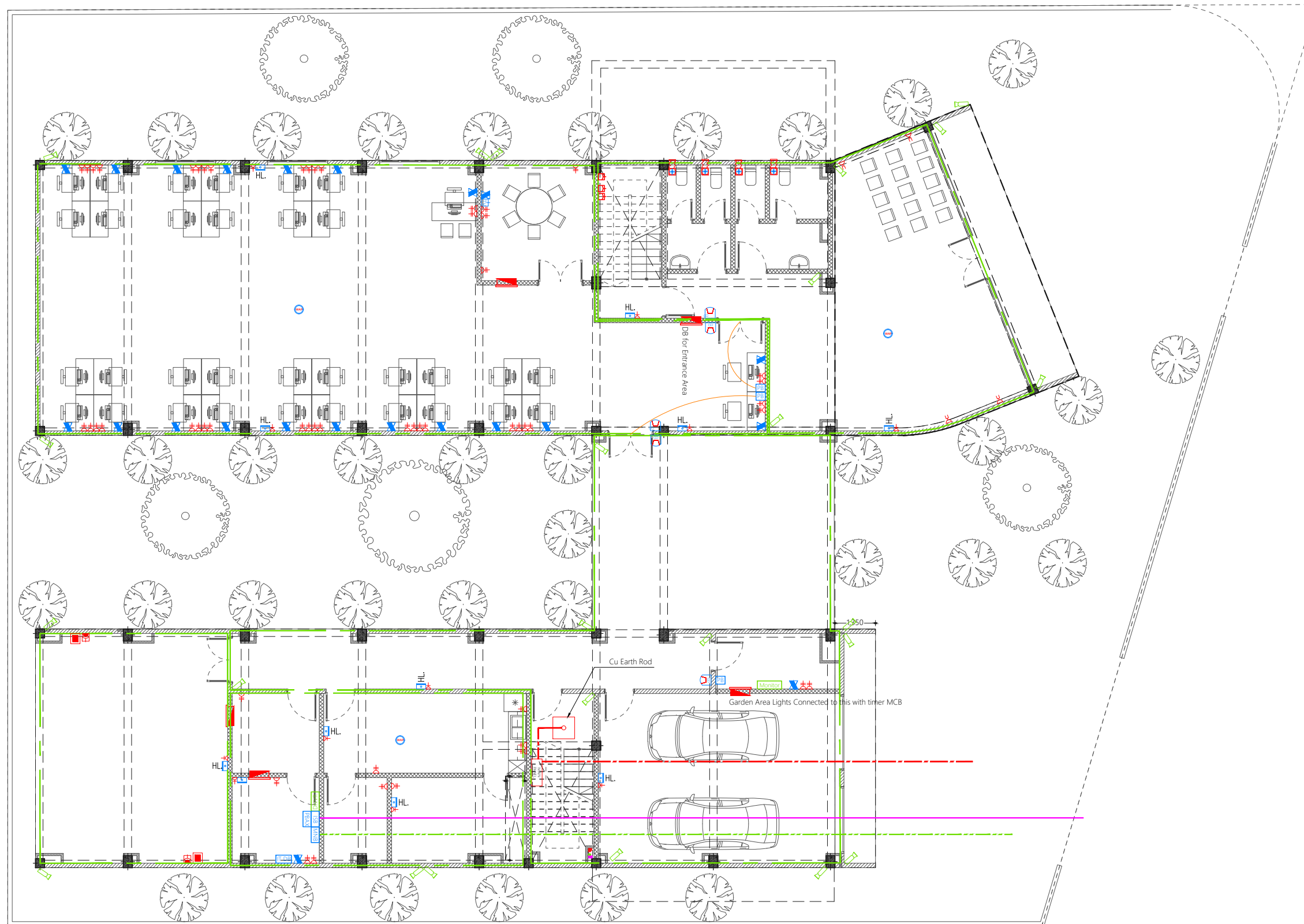
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LEGEND



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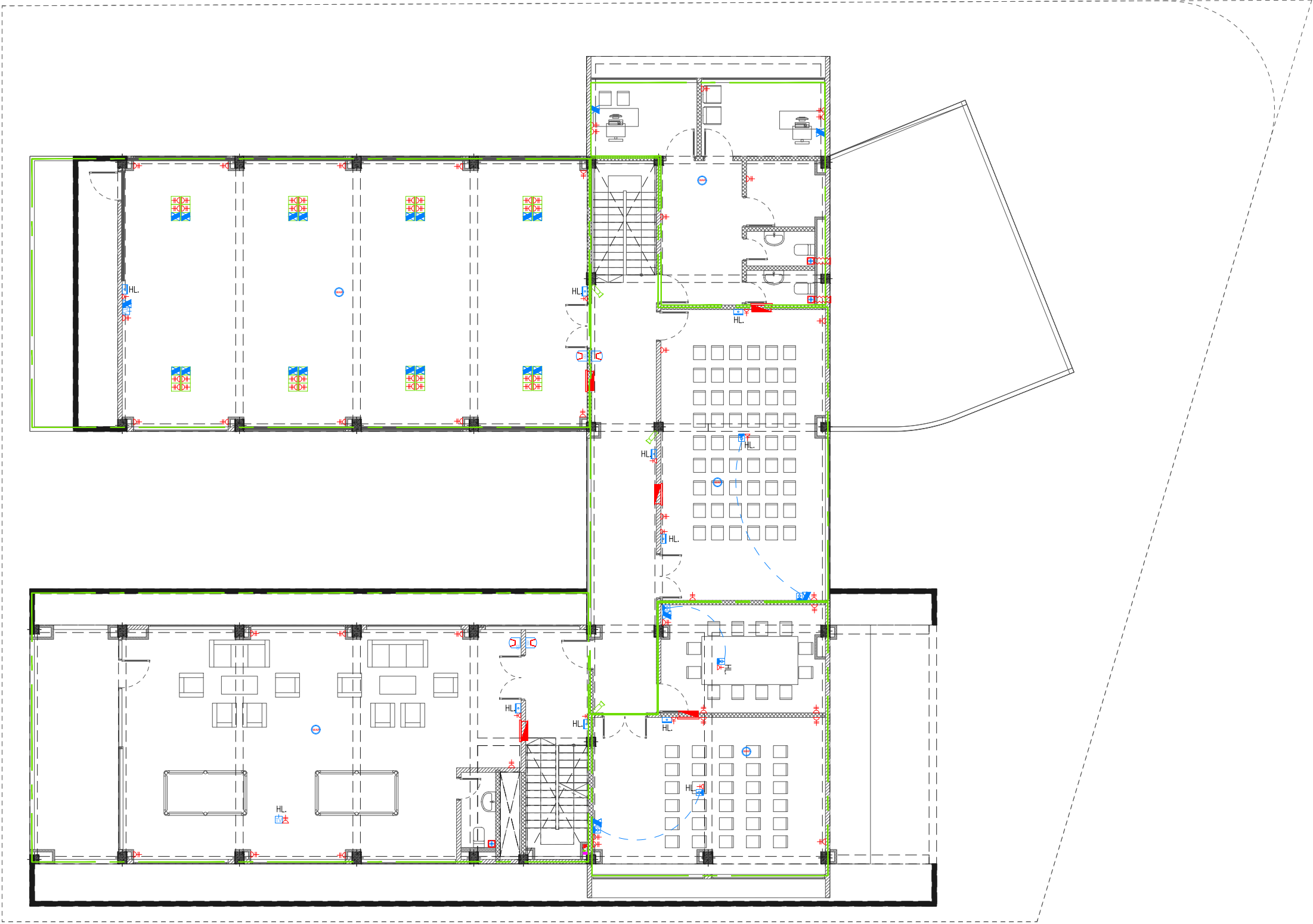


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GROUND FLOOR POWER LAYOUT

1:100



FIRST FLOOR POWER LAYOUT
1:100

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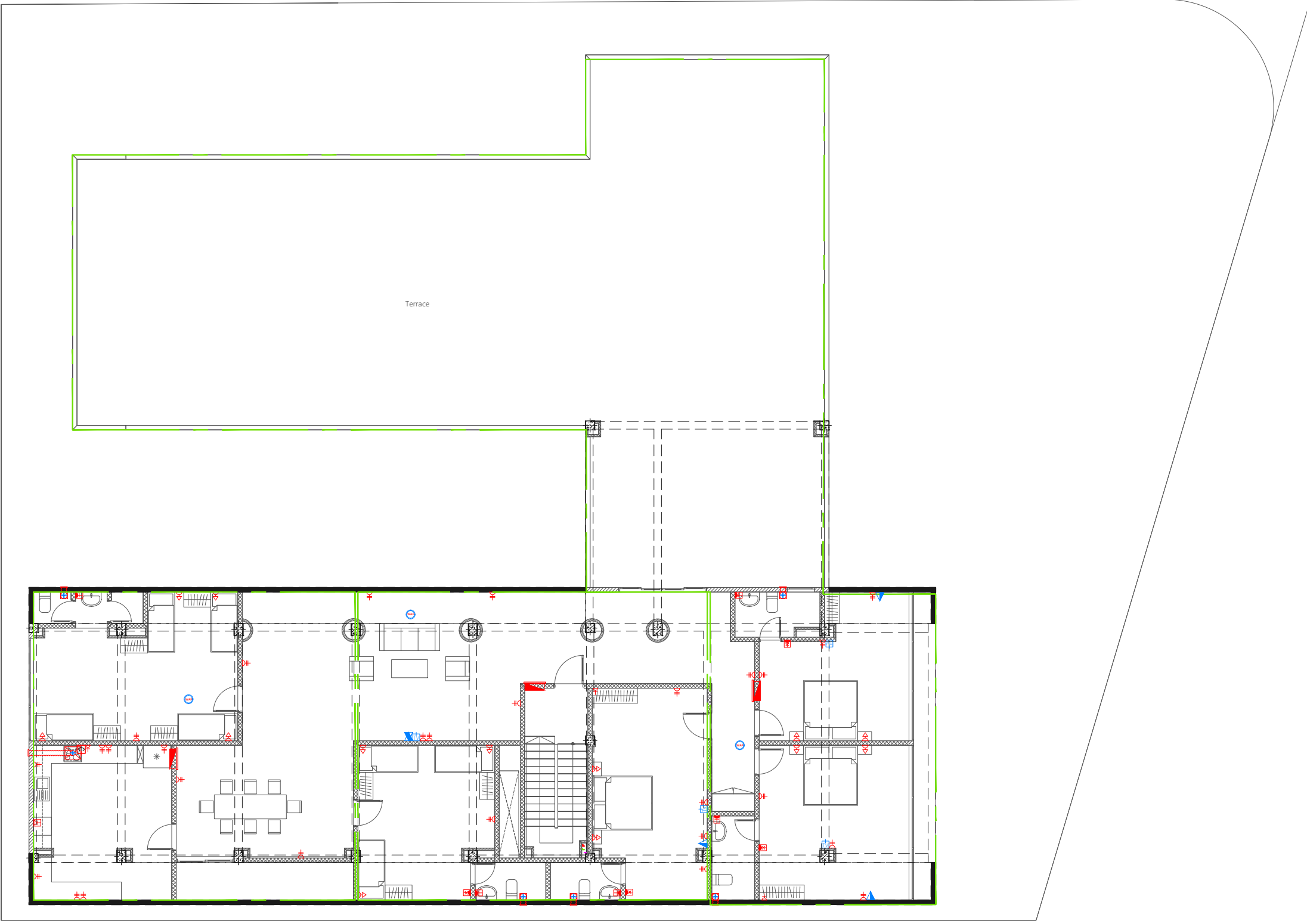
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TERRACE FLOOR POWER LAYOUT
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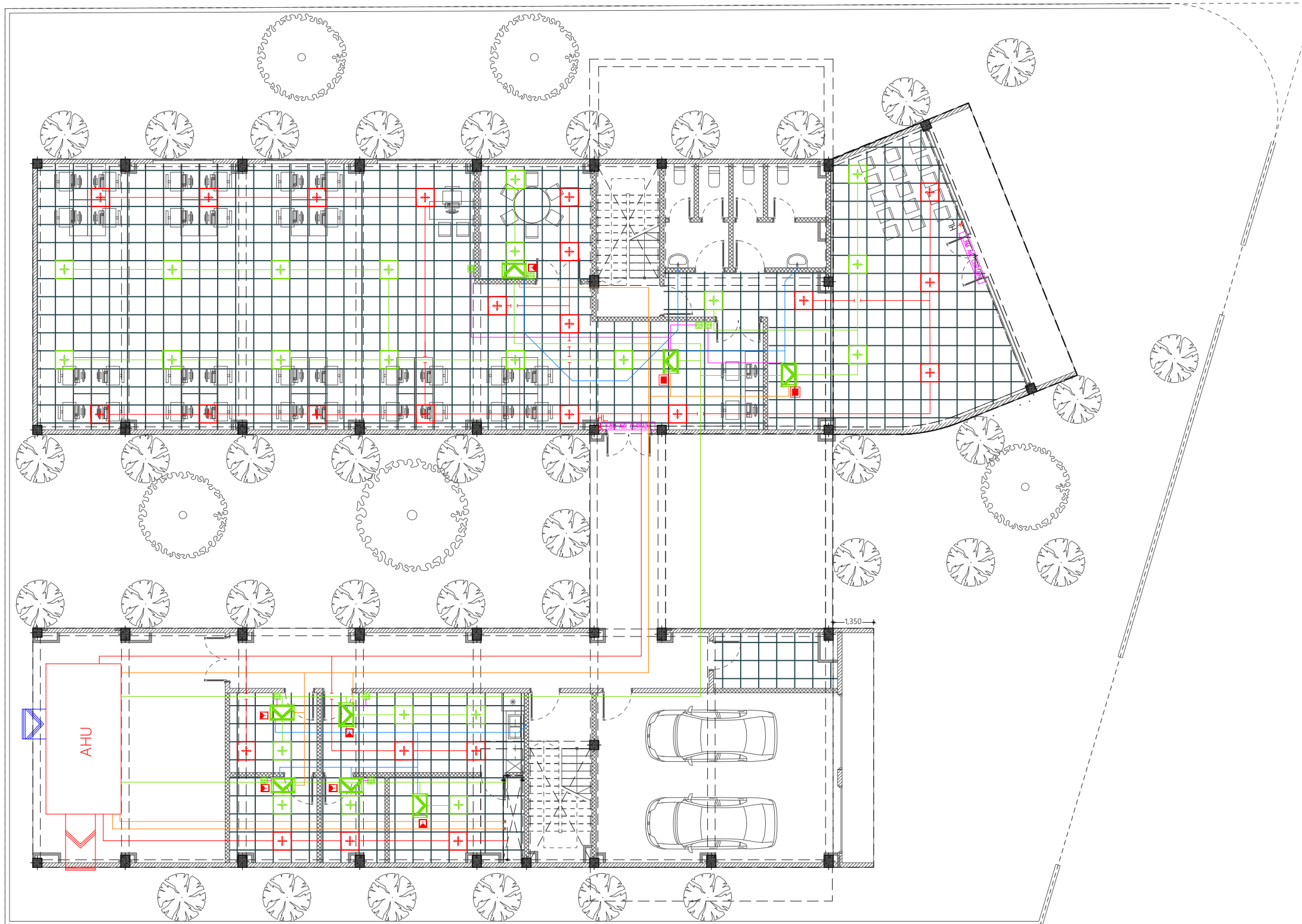
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GROUND FLOOR ACV LAYOUT
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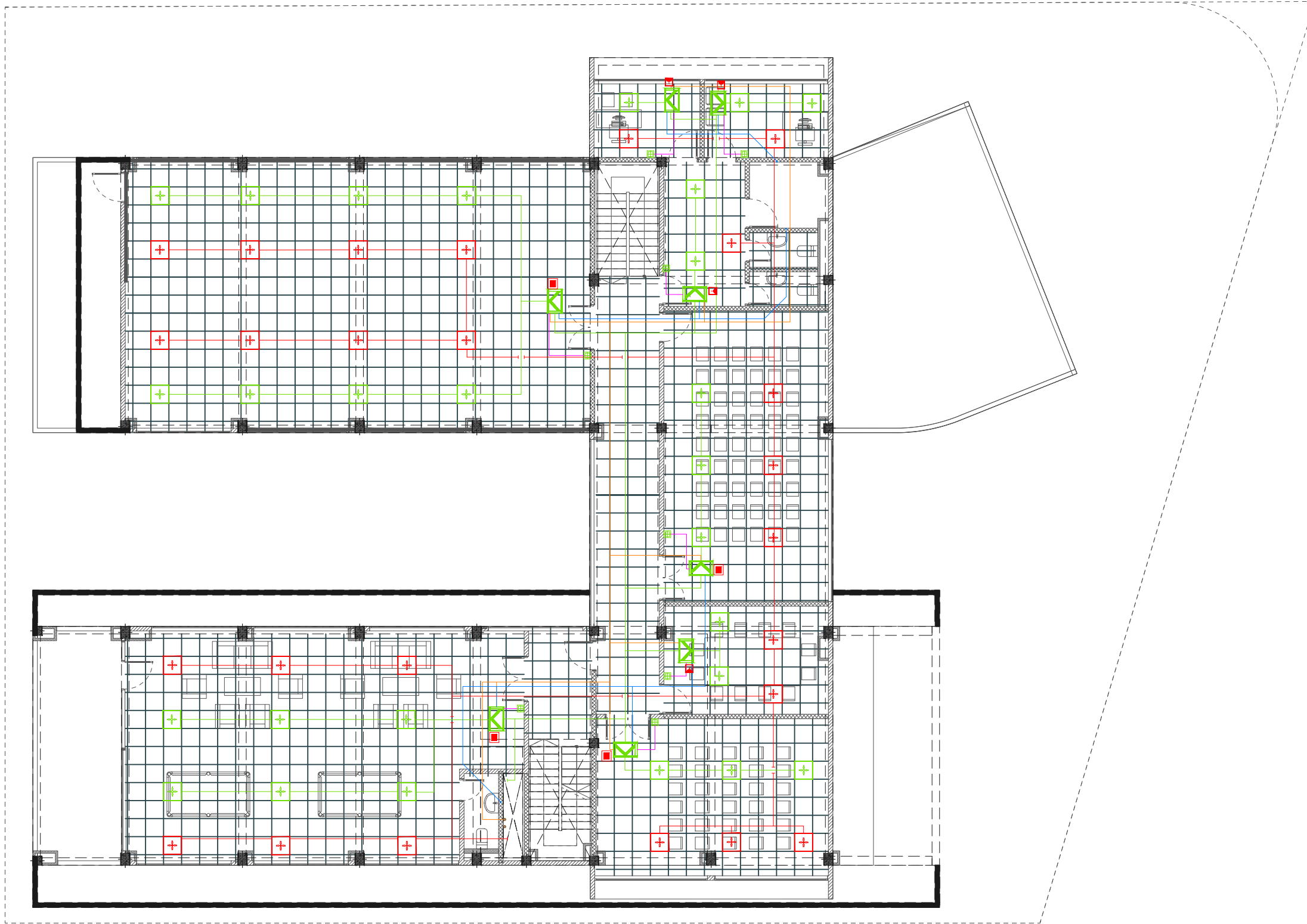
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FIRST FLOOR ACV LAYOUT
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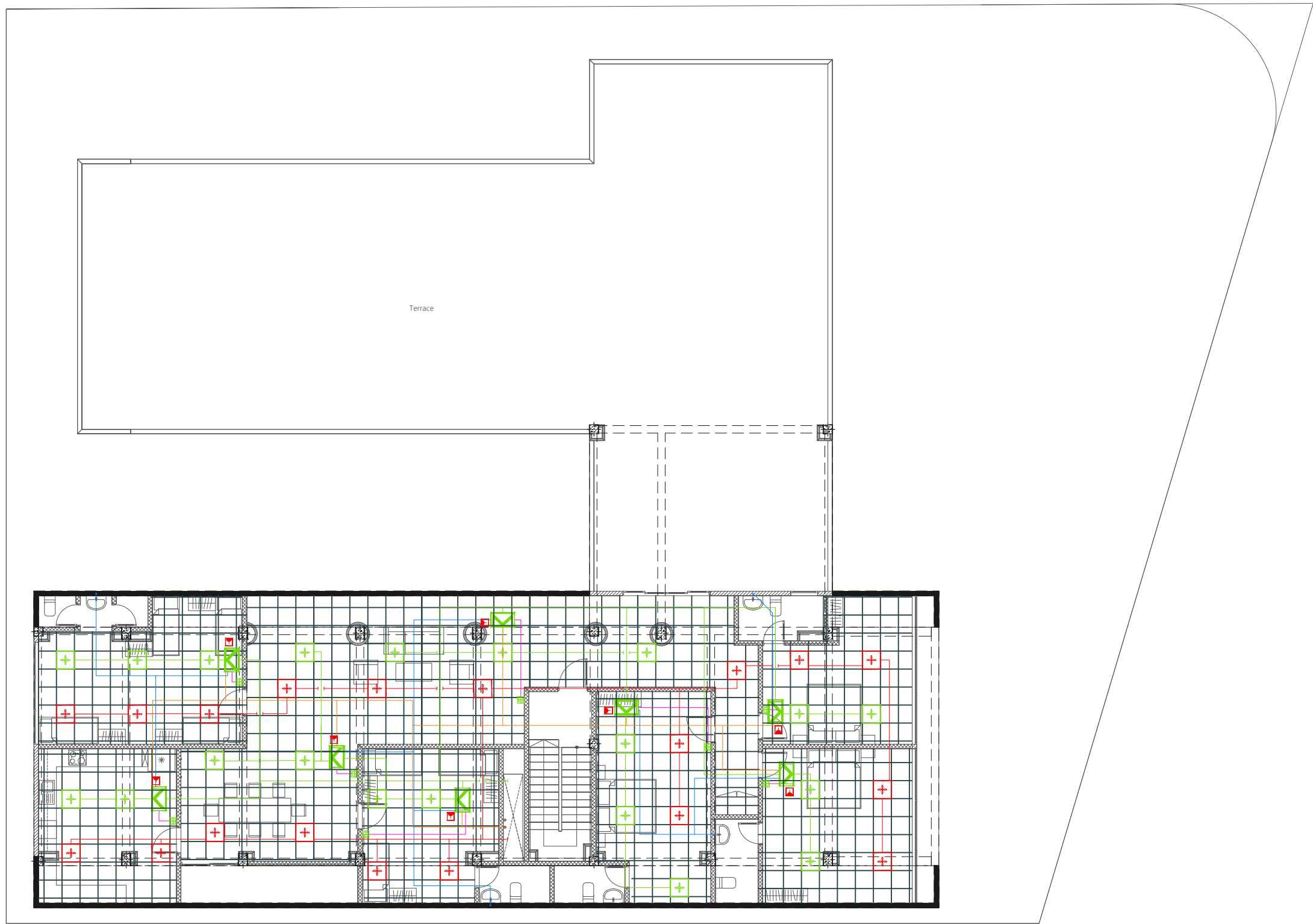
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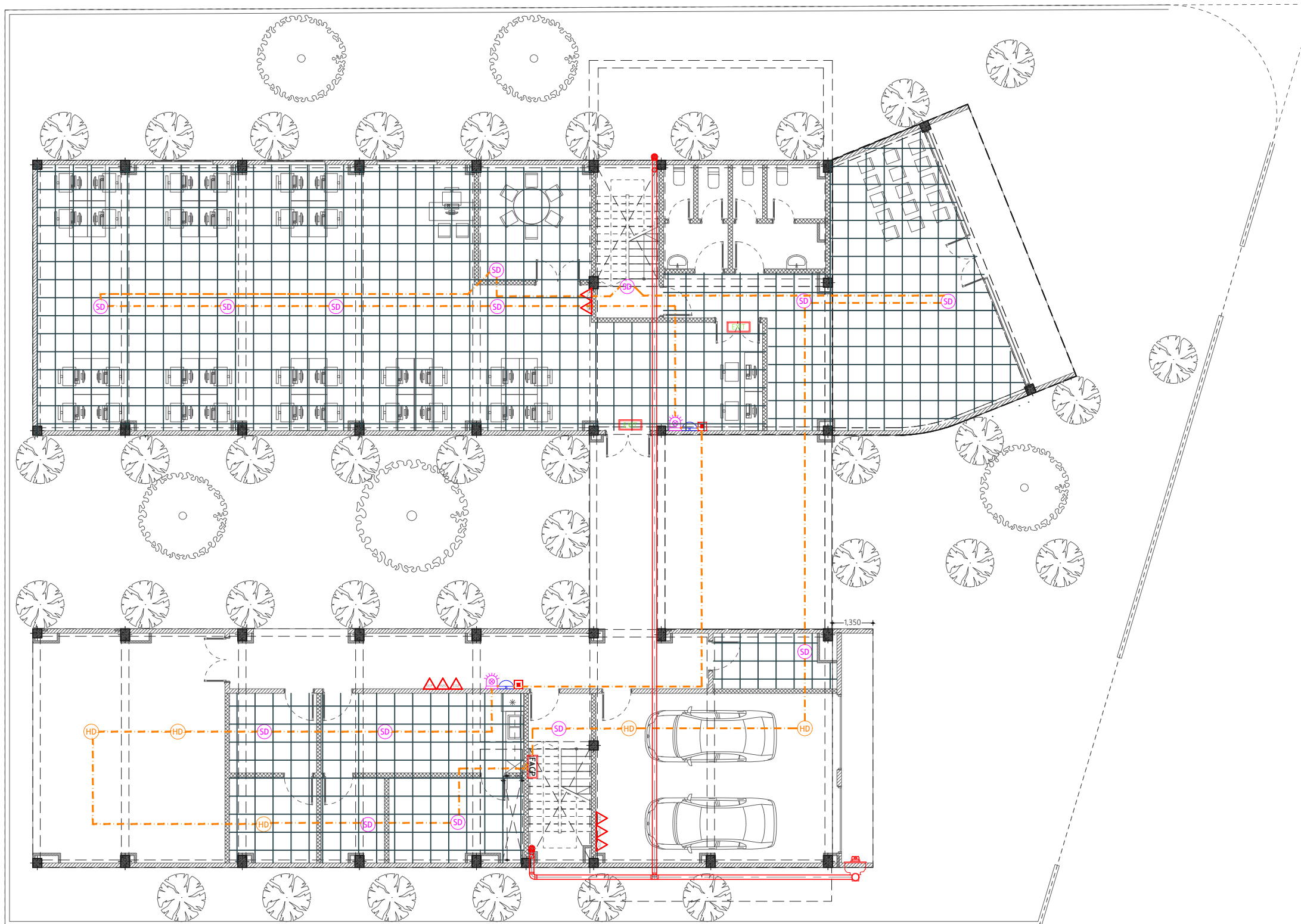
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GROUND FLOOR FDP LAYOUT
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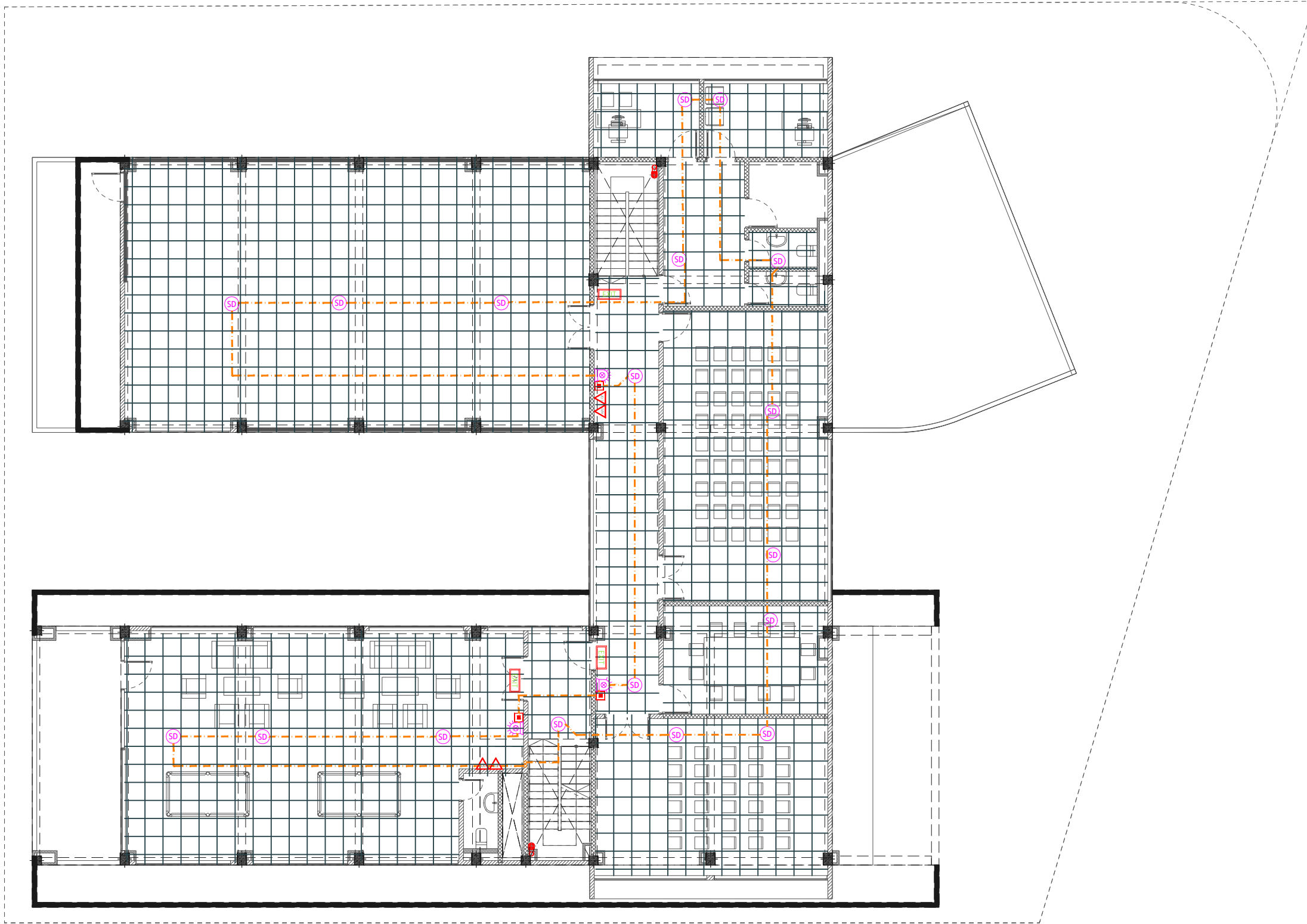
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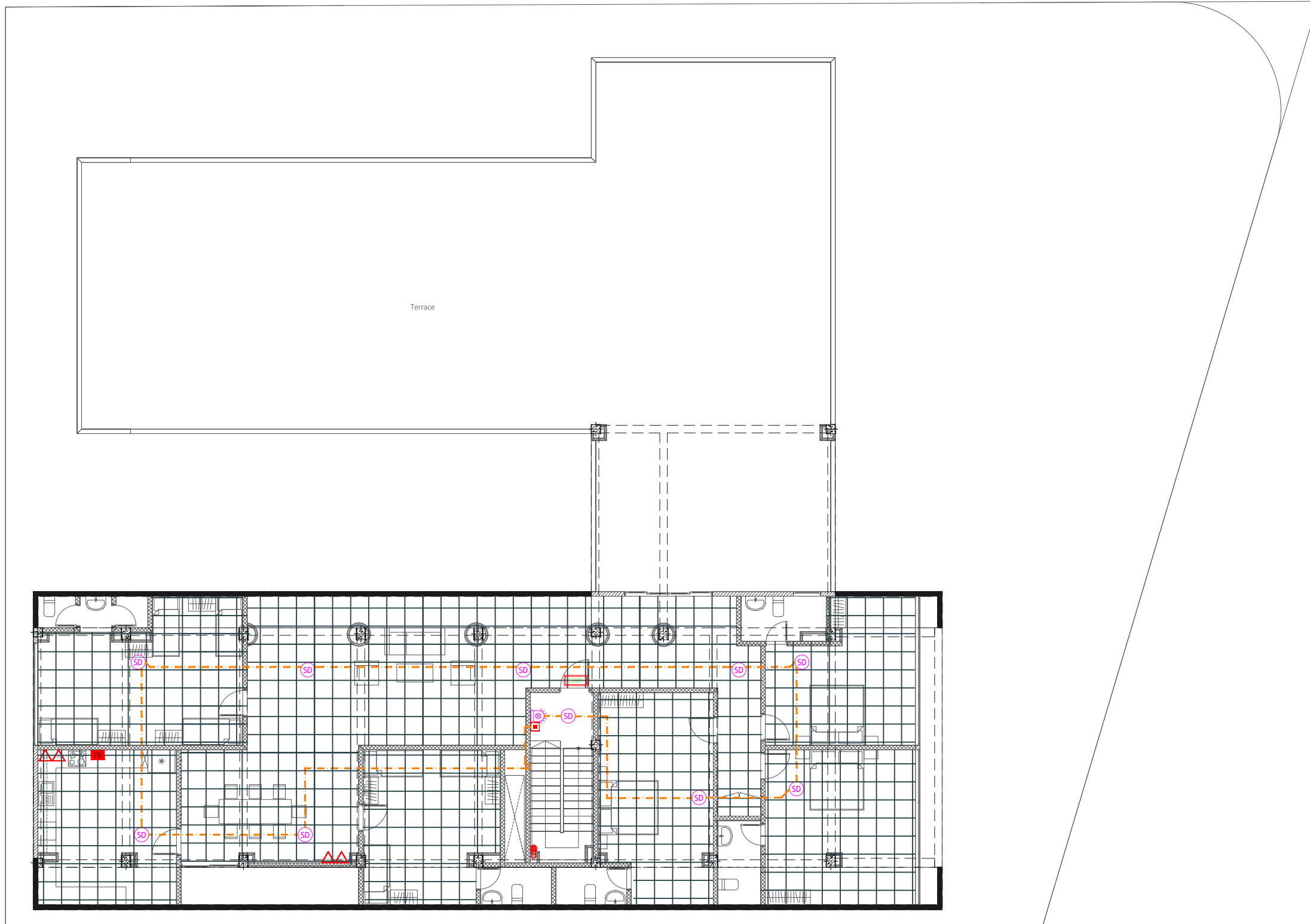
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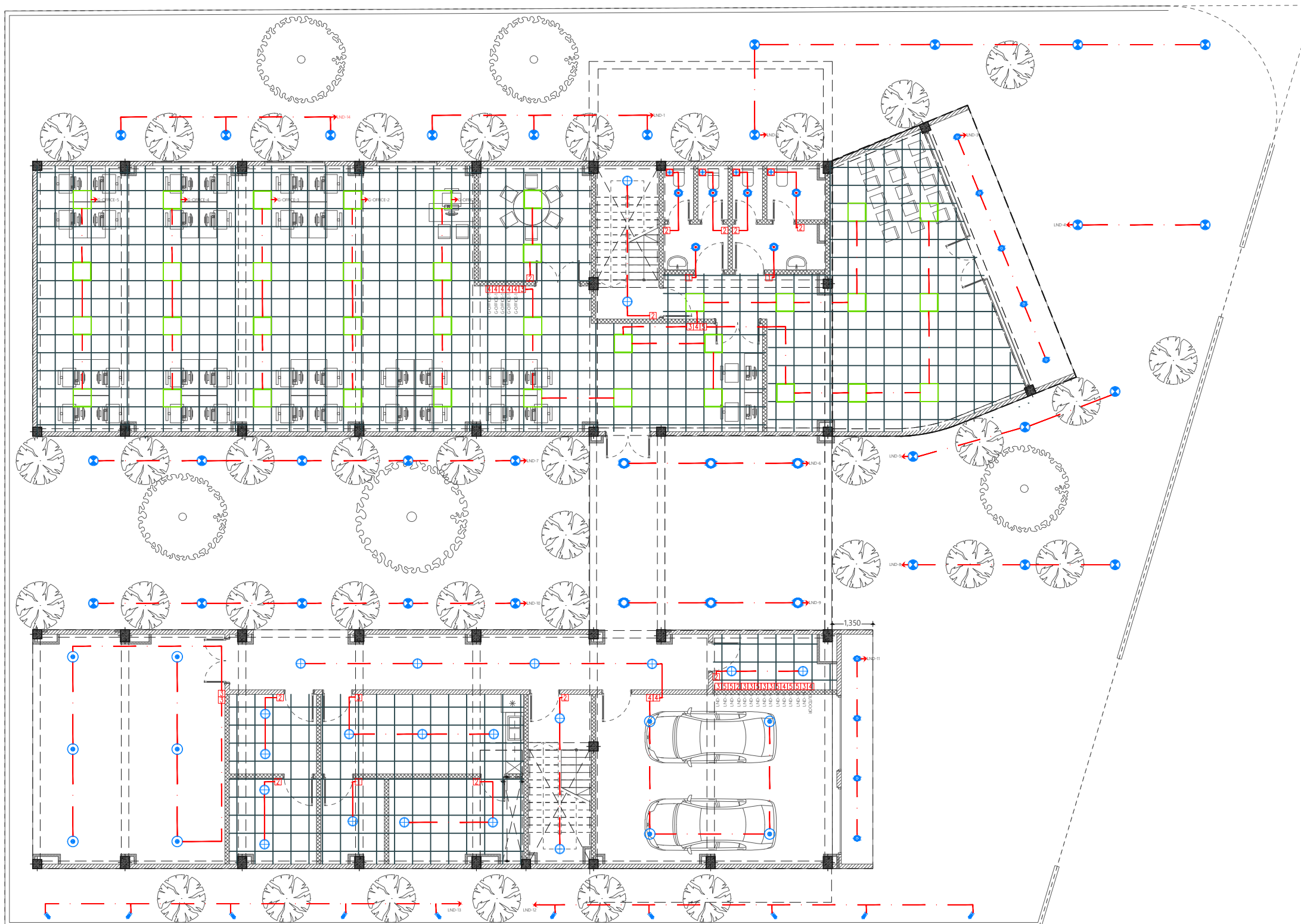
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GROUND FLOOR LIGHTING LAYOUT

1:100

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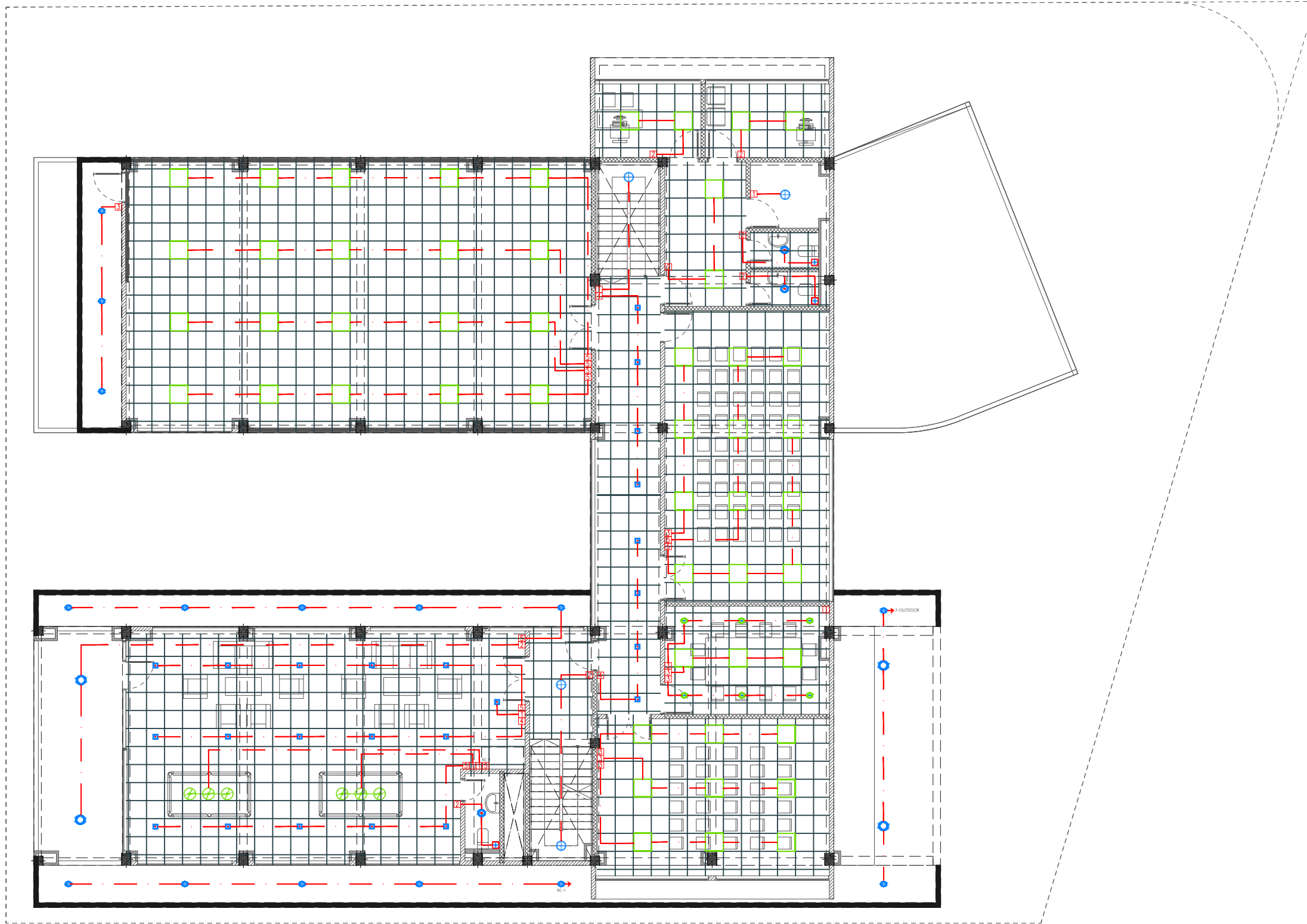
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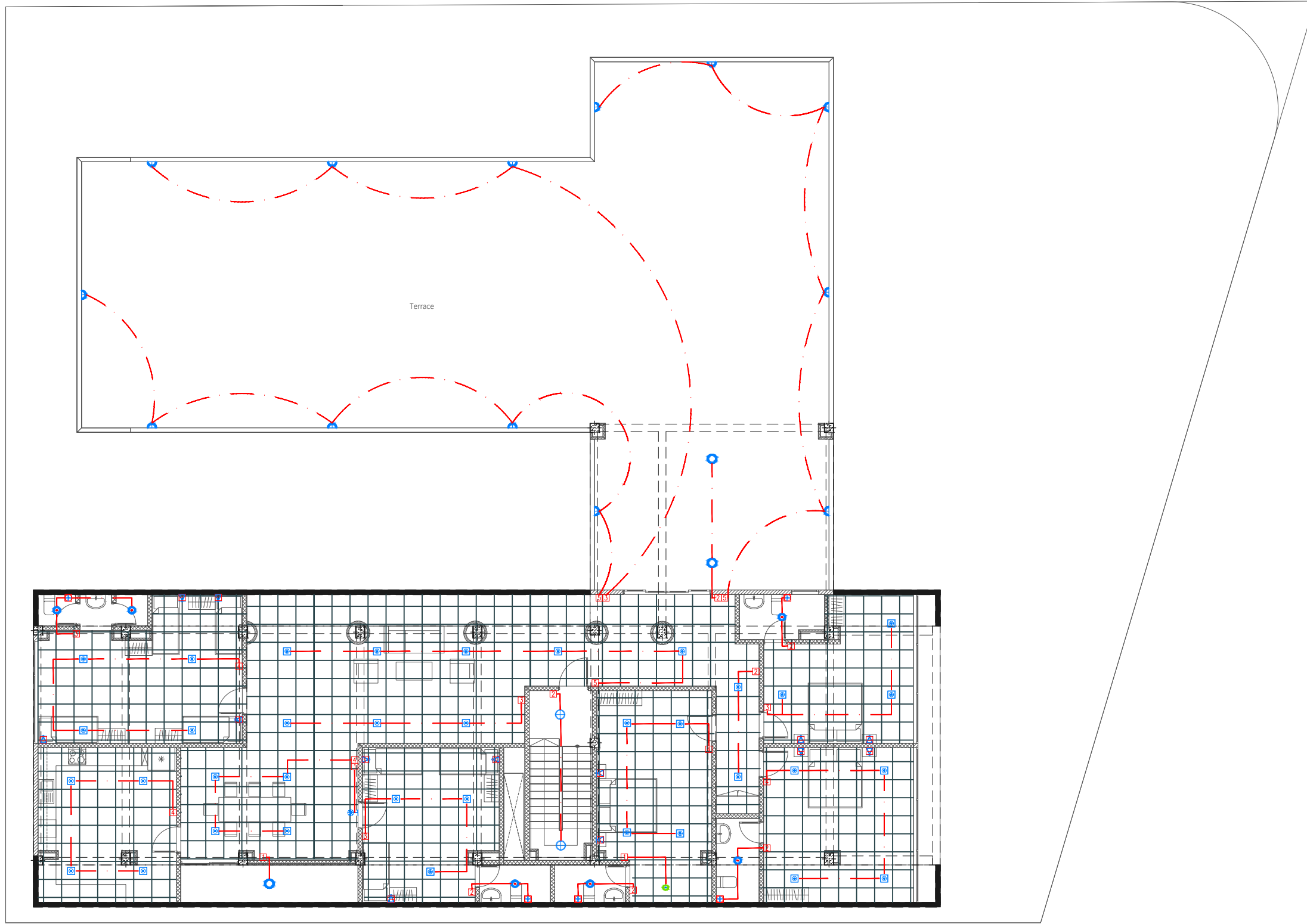
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TERRACE FLOOR LIGHTING LAYOUT

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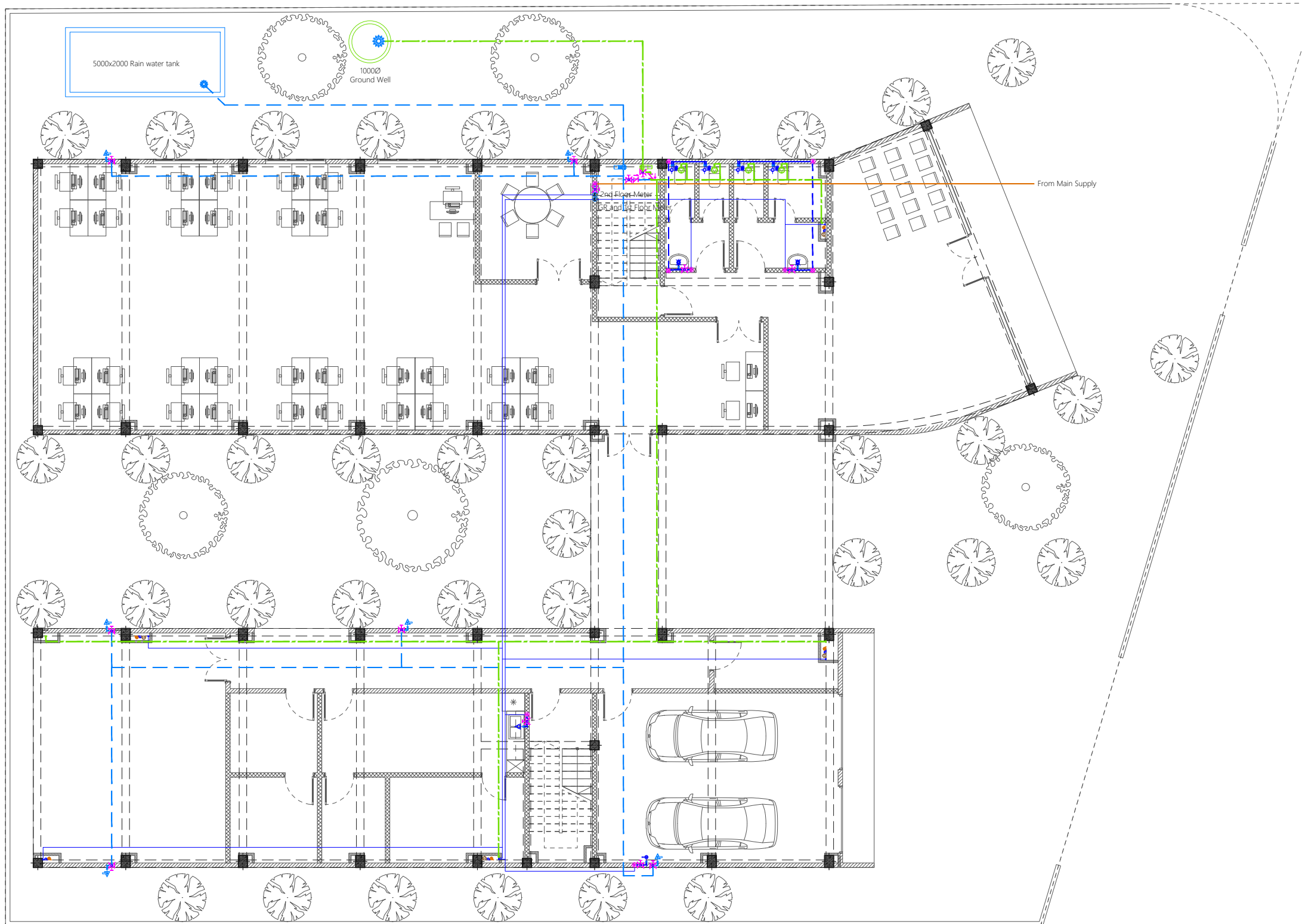
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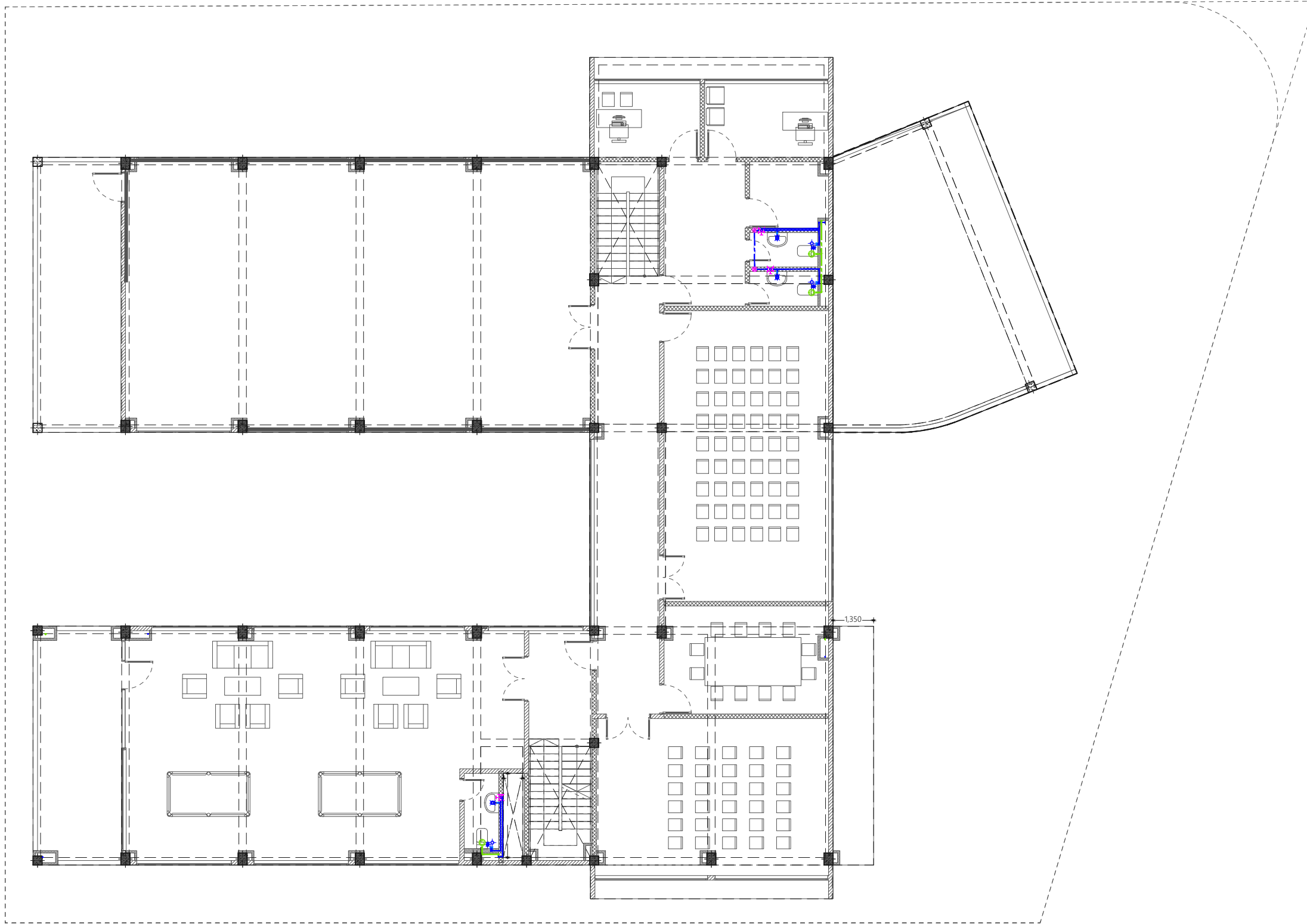


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GROUND FLOOR PLUMBING LAYOUT

1:100



FIRST FLOOR PLUMBING LAYOUT
1:100

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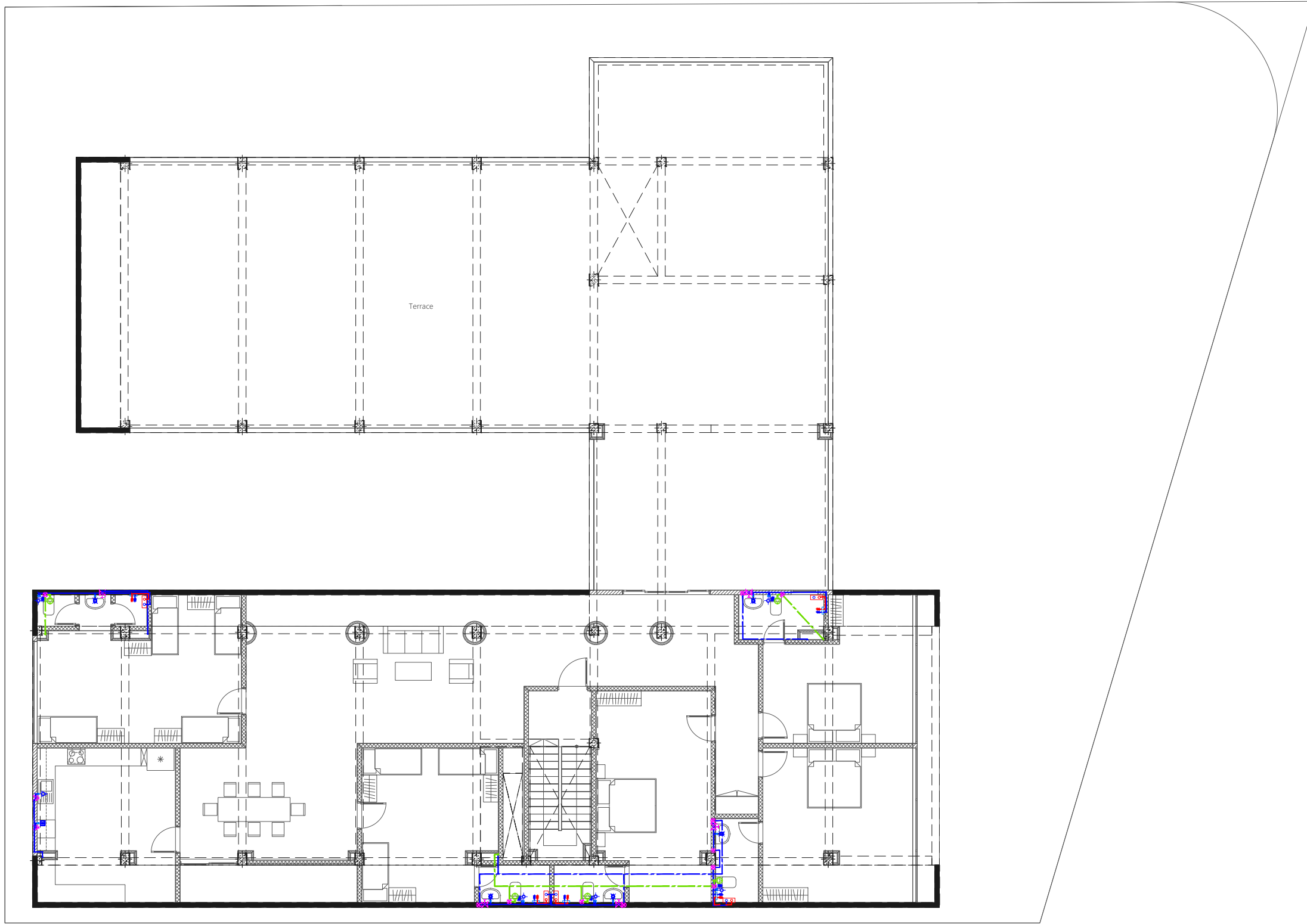
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TERRACE FLOOR PLUMBING LAYOUT
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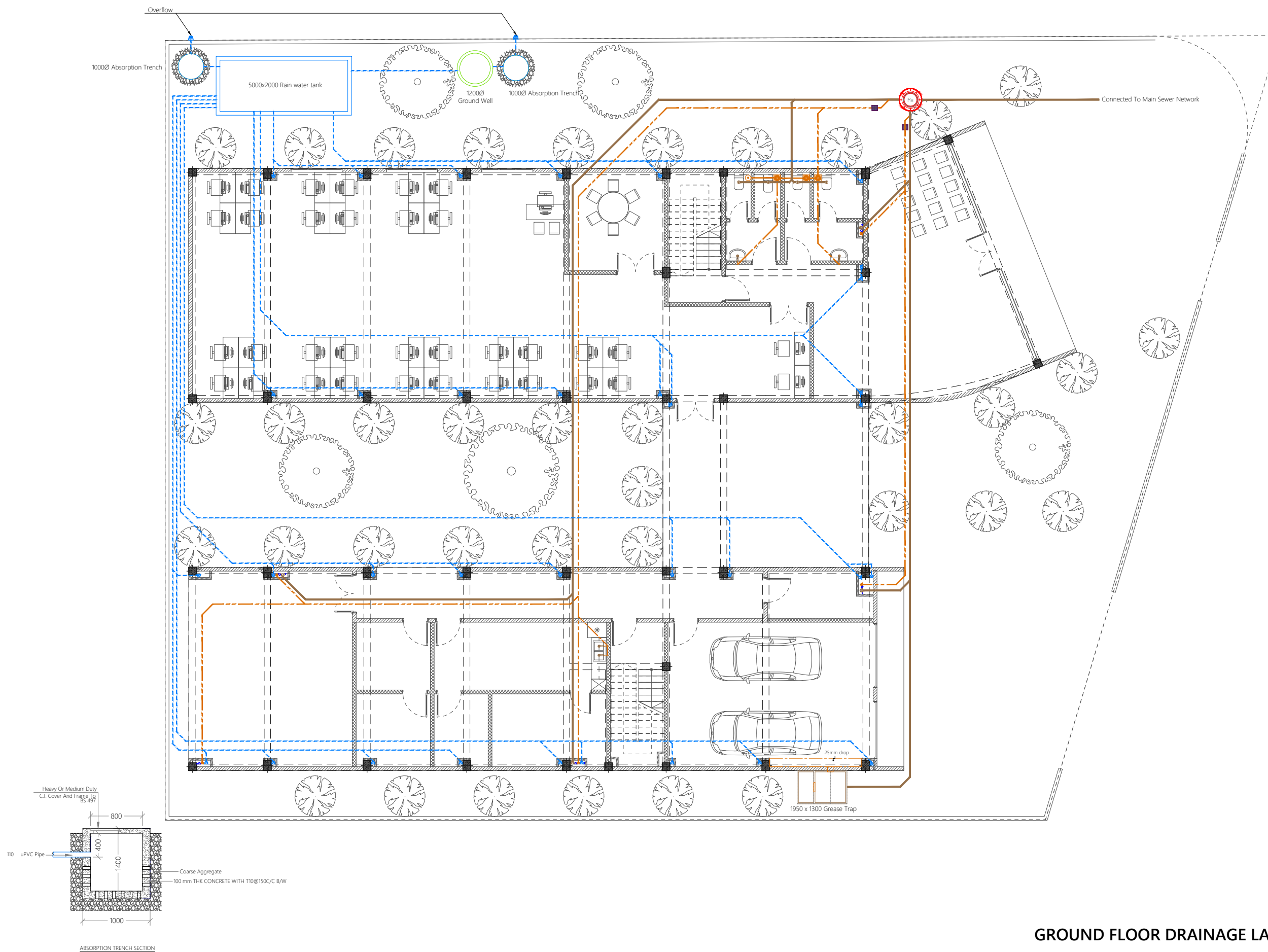
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GROUND FLOOR DRAINAGE LAYOUT

1:100

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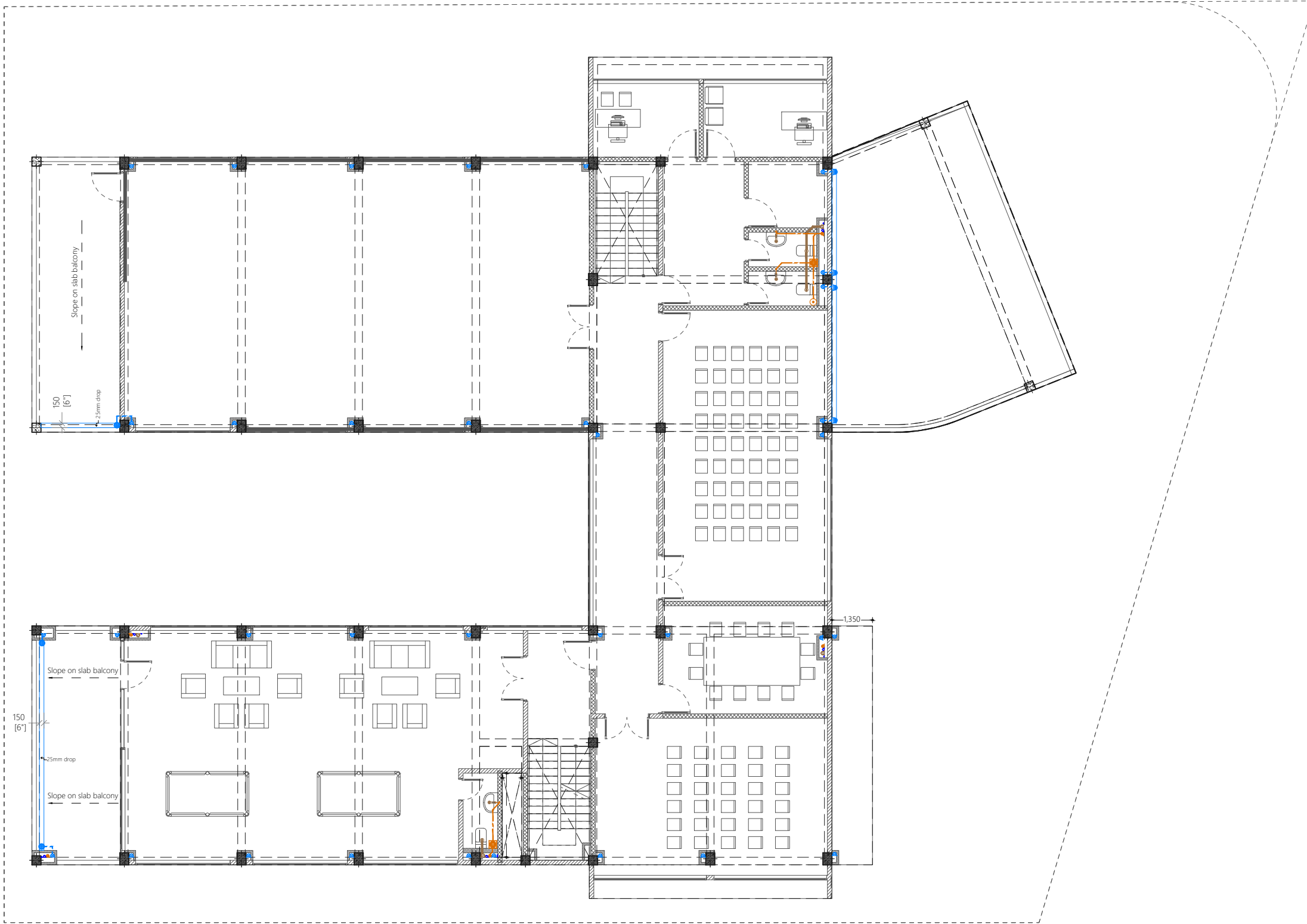
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FIRST FLOOR DRAINAGE LAYOUT
1:100

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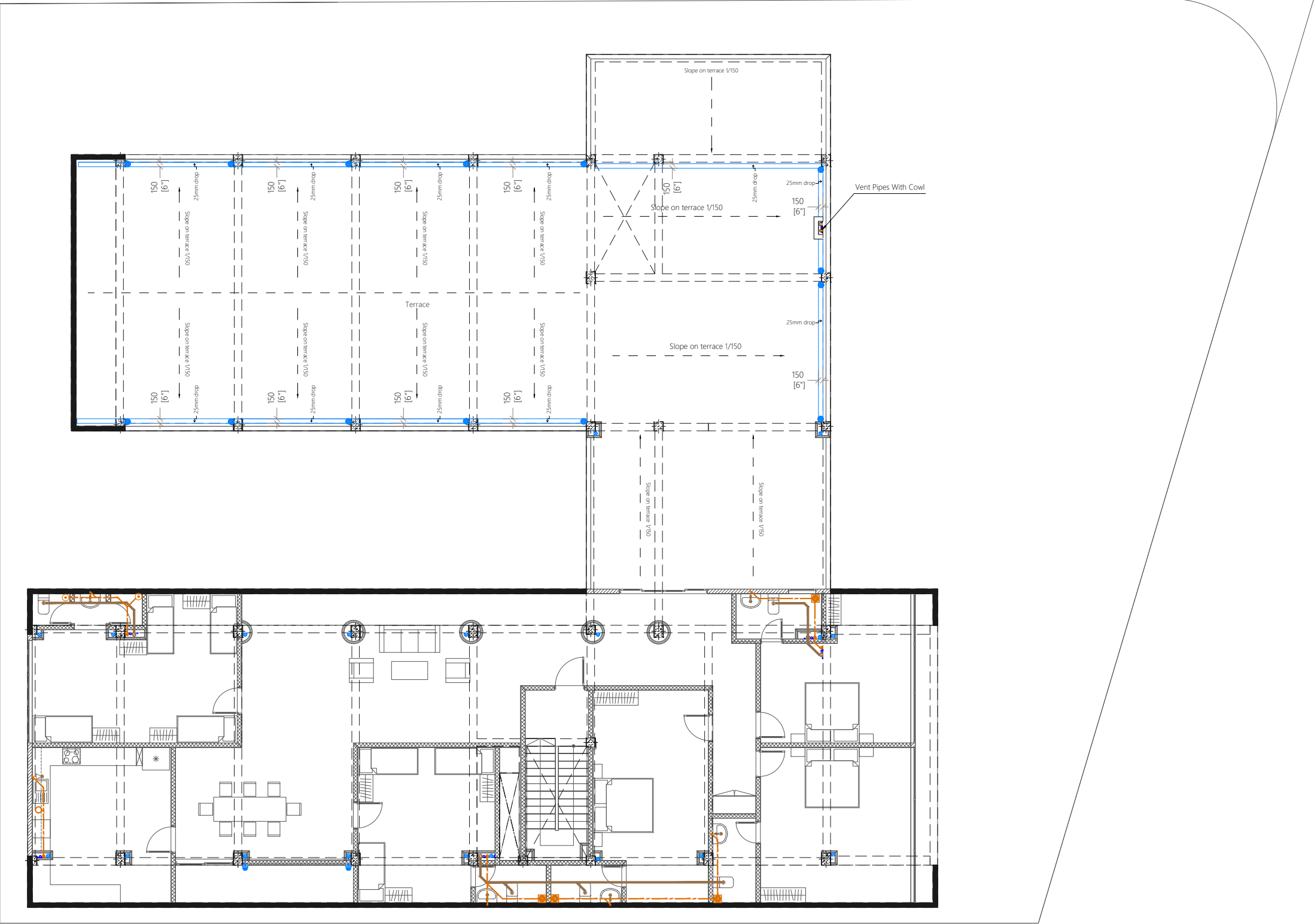
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TERRACE FLOOR DRAINAGE LAYOUT

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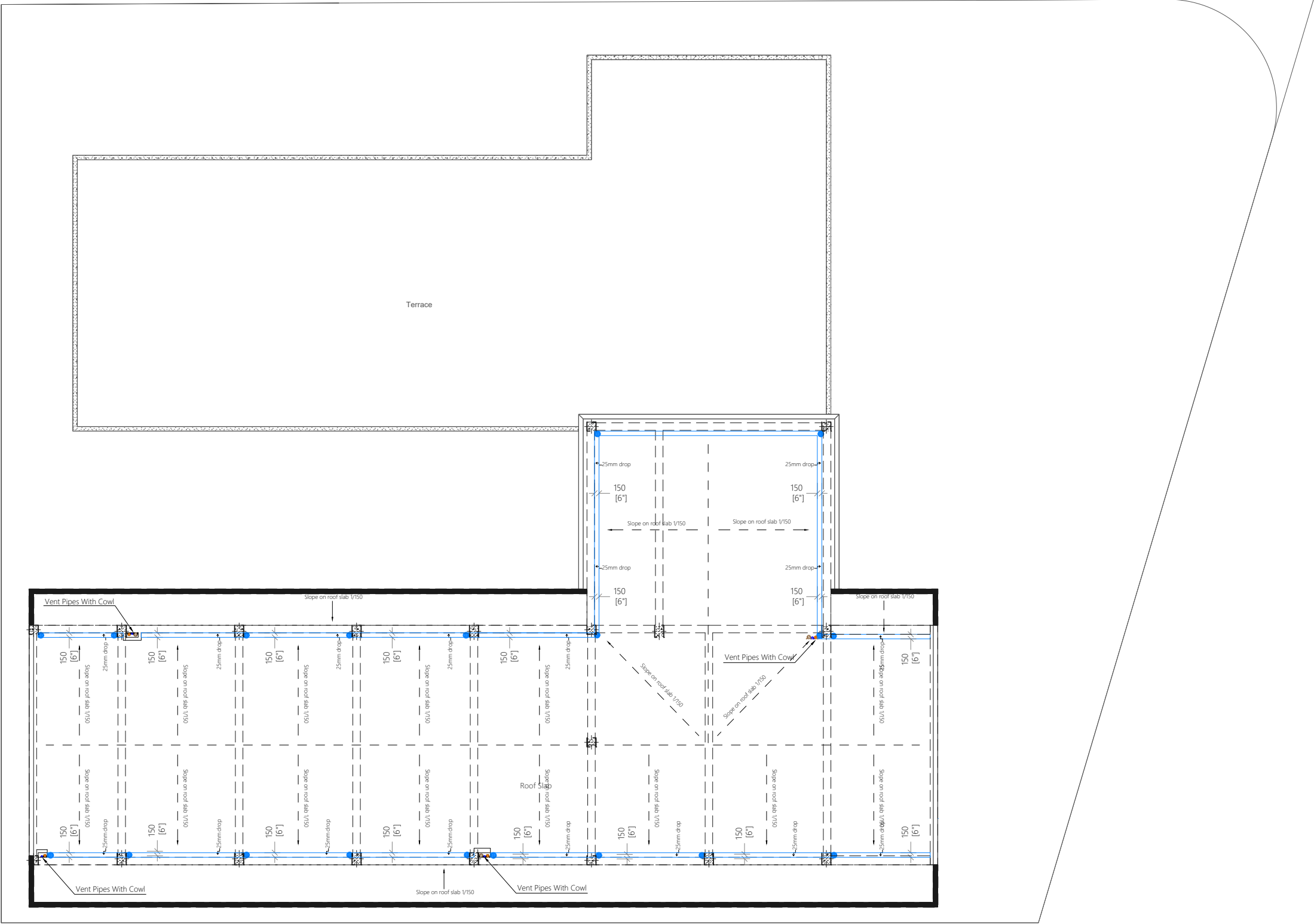
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ROOF DRAINAGE LAYOUT
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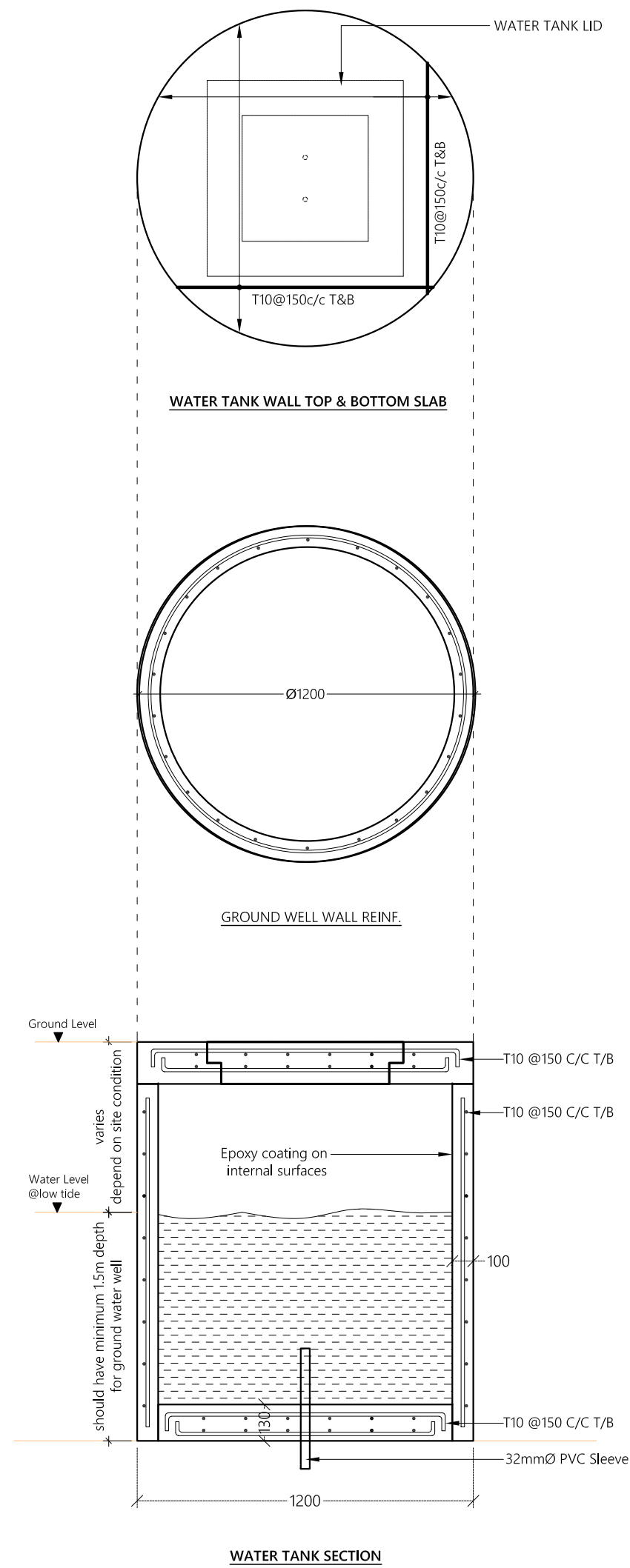
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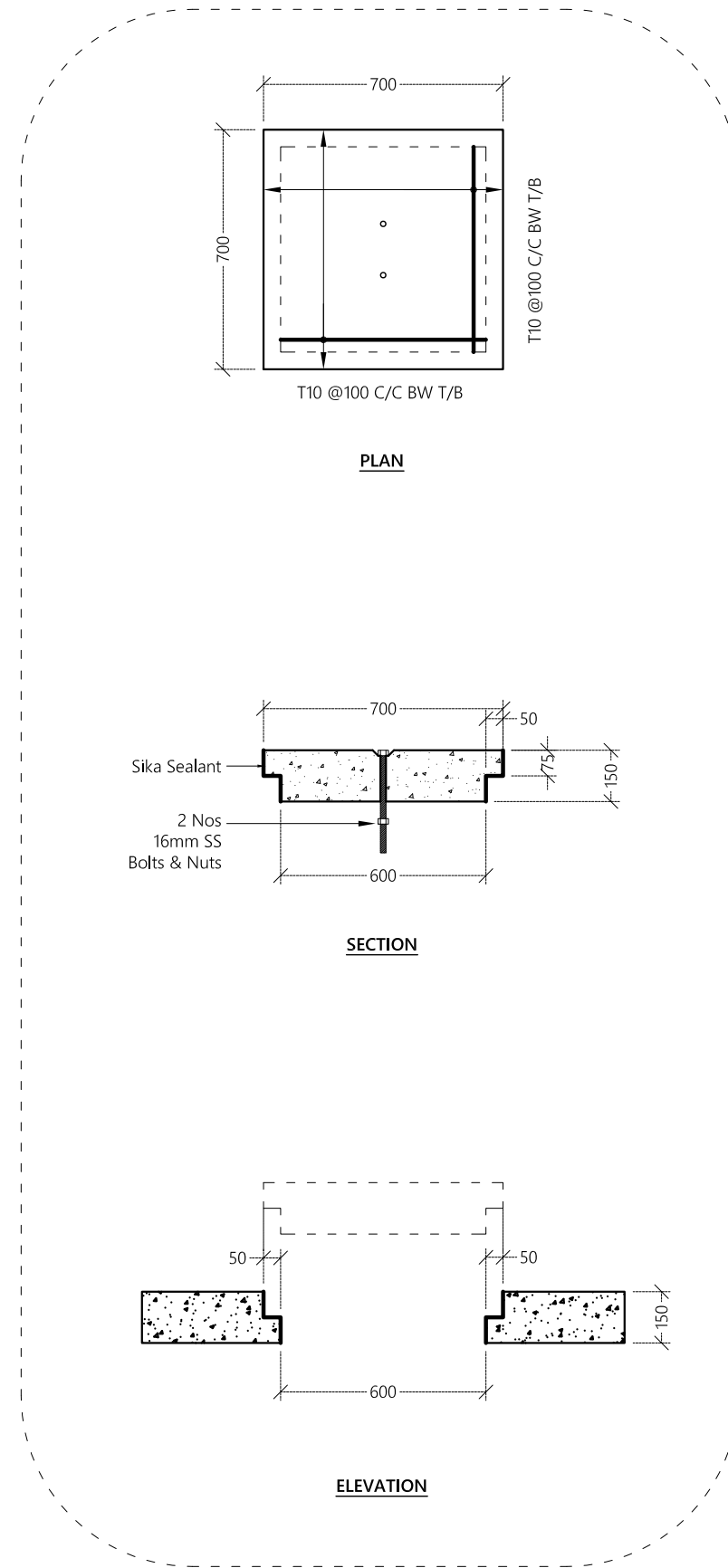
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GROUND WATER WELL DETAILS
1:20

Note:
All concrete works below ground and at terrace level to be treated with waterproofing chemical



GROUND WATER WELL LID DETAILS
1:20

PROPOSED 03 STOREY BUILDING AT
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Client:
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December 2020
Architect: Mohamed Haasaan
Engineer: Insaan Waheed
Drawn By: Aishath Shadhny Afzal



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