

BUILDING SERVICES DRAWINGS OF

PROPOSED 03 STOREY

**5 CLASSROOM BLOCK WITH STAFF ROOM, HEALTH ROOM
AND COMPUTER LAB, SH. NARUDHOO**

For Ministry Of Education




















By Epoch Associates Pvt. Ltd





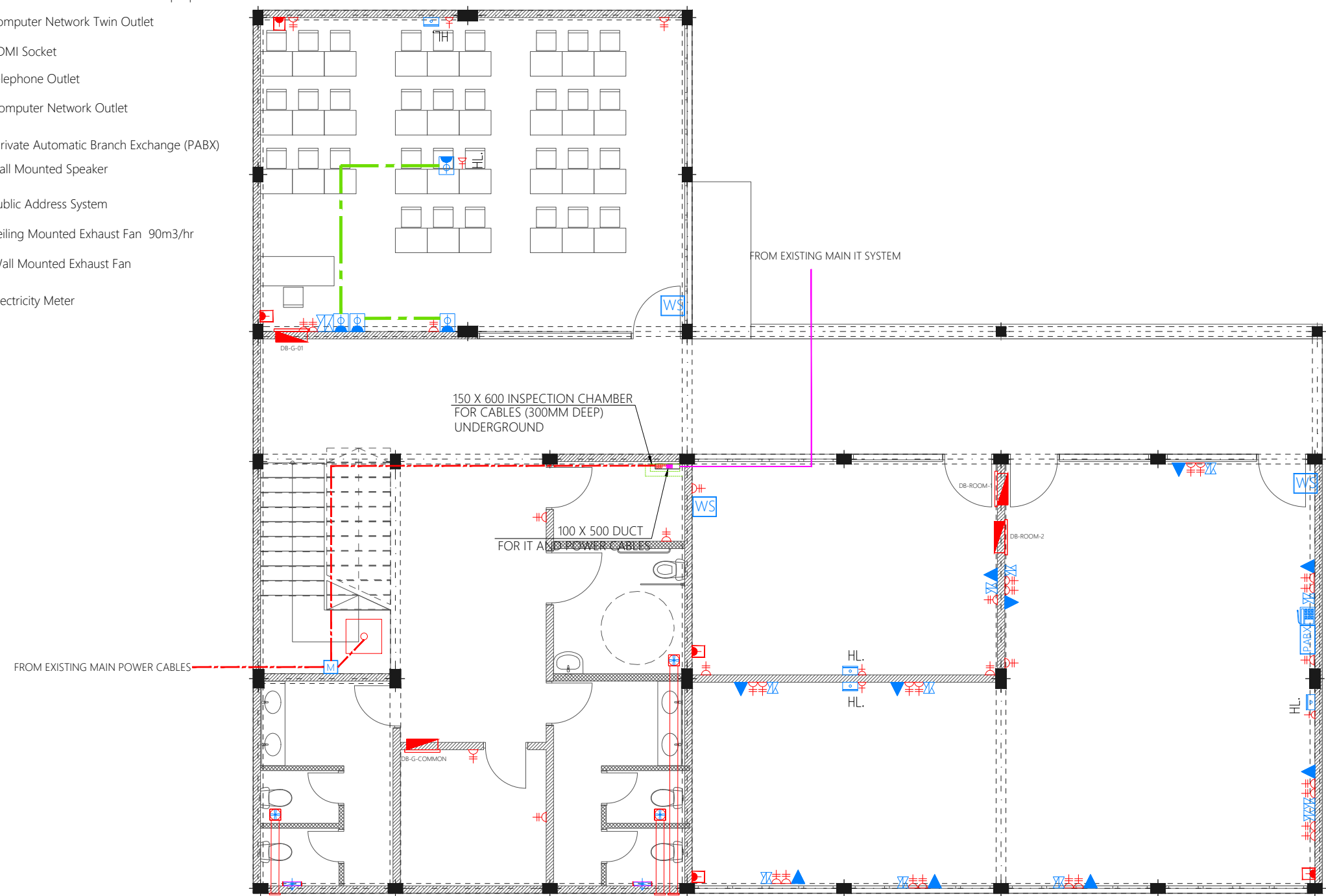
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A: 3rd Floor, G. Rosary West, Husnuheena Magu, Male' Republic of Maldives

Legend

-  13A Twin Socket
-  13A Power Socket
-  Distribution Board
-  15A Switched Socket @ H.L.
-  HL.
-  Emergency Light
-  Computer Network Outlet In Floor Mount Pop-up Box
-  Telephone Extension In Floor Mount Pop-up Box
-  13A Twin Socket In Floor Mount Pop-up Box
-  Computer Network Twin Outlet
-  HDMI Socket
-  Telephone Outlet
-  Computer Network Outlet
-  Private Automatic Branch Exchange (PABX)
-  Wall Mounted Speaker
-  Public Address System
-  Ceiling Mounted Exhaust Fan 90m3/hr
-  Wall Mounted Exhaust Fan
-  Electricity Meter

-  82Ø PVC Duct For Tel./Internet Cable Lead In Below Ground Slab
-  Main Incoming Cable For Power In 110Ø PVC Duct Below Ground Slab
- Notes: -
- All Twin Sockets At 300mm From F.F.L. Except Stated Otherwise
- All Computer, Telephone Points At 300mm From F.F.L.
- All electrical components shall be connected to respective Distribution Box in the same area as the component.
- All electrical components in common areas, corridors and staircase should be connected to Common Area DB
- Wall Speaker shall be connected to Public address system of school



PROPOSED 03 STOREY BUILDING
**5 CLASSROOM BLOCK
WITH STAFF ROOM,
HEALTH ROOM AND
COMPUTER LAB,
SH. NARUDHOO**

Client:
Ministry Of Education

February 2021

Services By: **Mohamed Rassam**
Checked By:
Drawn By: **Hussain Rasheed**



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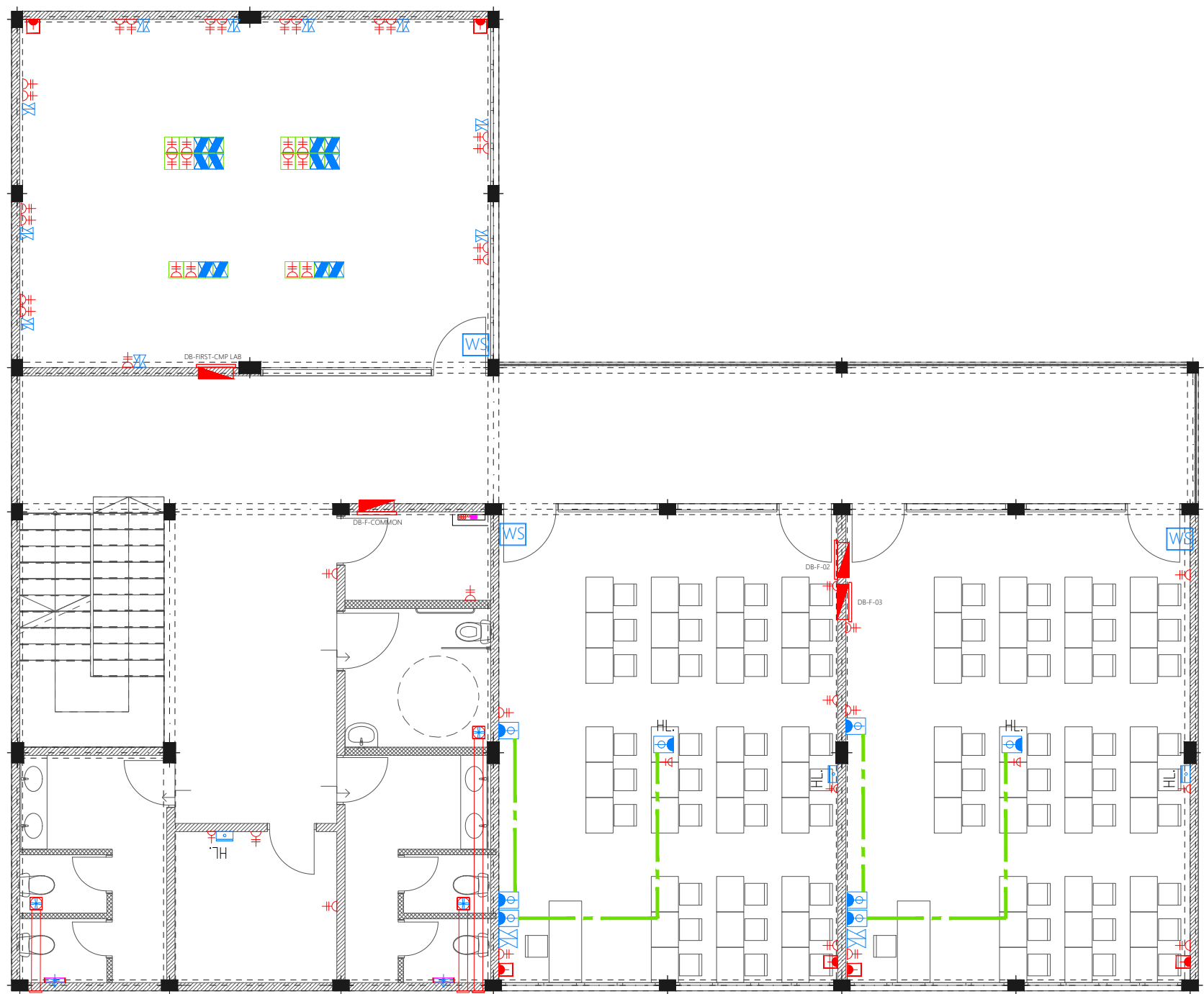
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Legend

- 13A Twin Socket
- 13A Power Socket
- Distribution Board
- 15A Switched Socket @ H.L.
- HL. High Level
- Emergency Light
- Computer Network Outlet In Floor Mount Pop-up Box
- Telephone Extension In Floor Mount Pop-up Box
- 13A Twin Socket In Floor Mount Pop-up Box
- Computer Network Twin Outlet
- HDMI Socket
- Telephone Outlet
- Telephone Extension
- Wall Mounted Speaker
- Public Address System
- Ceiling Mounted Exhaust Fan 90m3/hr
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FIRST FLOOR POWER AND ACV LAYOUT

1:100

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5 CLASSROOM BLOCK
WITH STAFF ROOM,
HEALTH ROOM AND
COMPUTER LAB,
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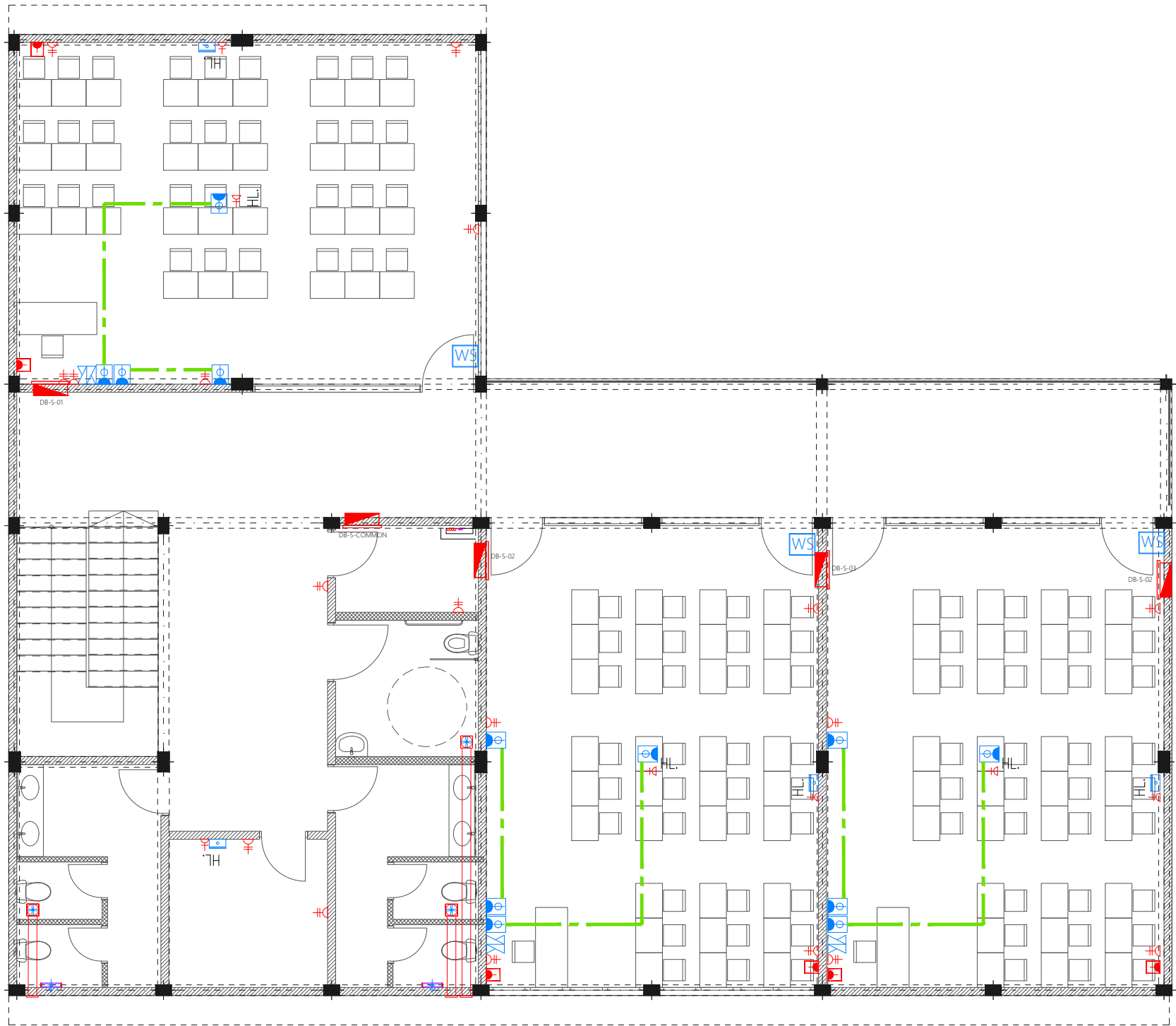
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Legend

-  13A Twin Socket
-  13A Power Socket
-  Distribution Board
-  15A Switched Socket @ H.L.
-  H.L. High Level
-  Emergency Light
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SECOND FLOOR POWER AND ACV LAYOUT

1:100

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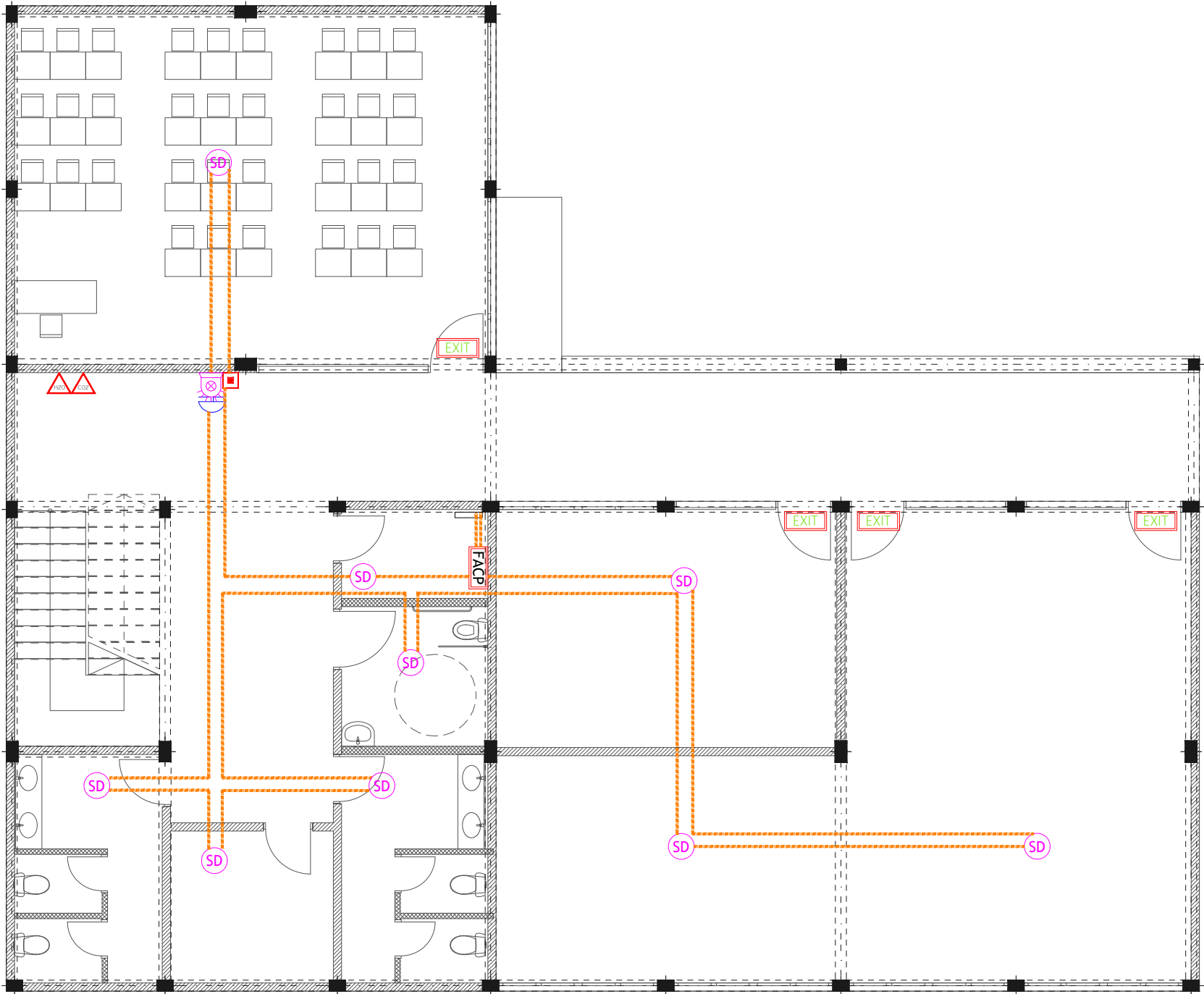
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Legend

-  CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point
-  Smoke Detector
-  Heat Detector
-  Beacon
-  Sounder Bell
-  2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits
-  Exit Sign
-  Fire Alarm Control Panel



GROUND FLOOR FDP LAYOUT
1:100

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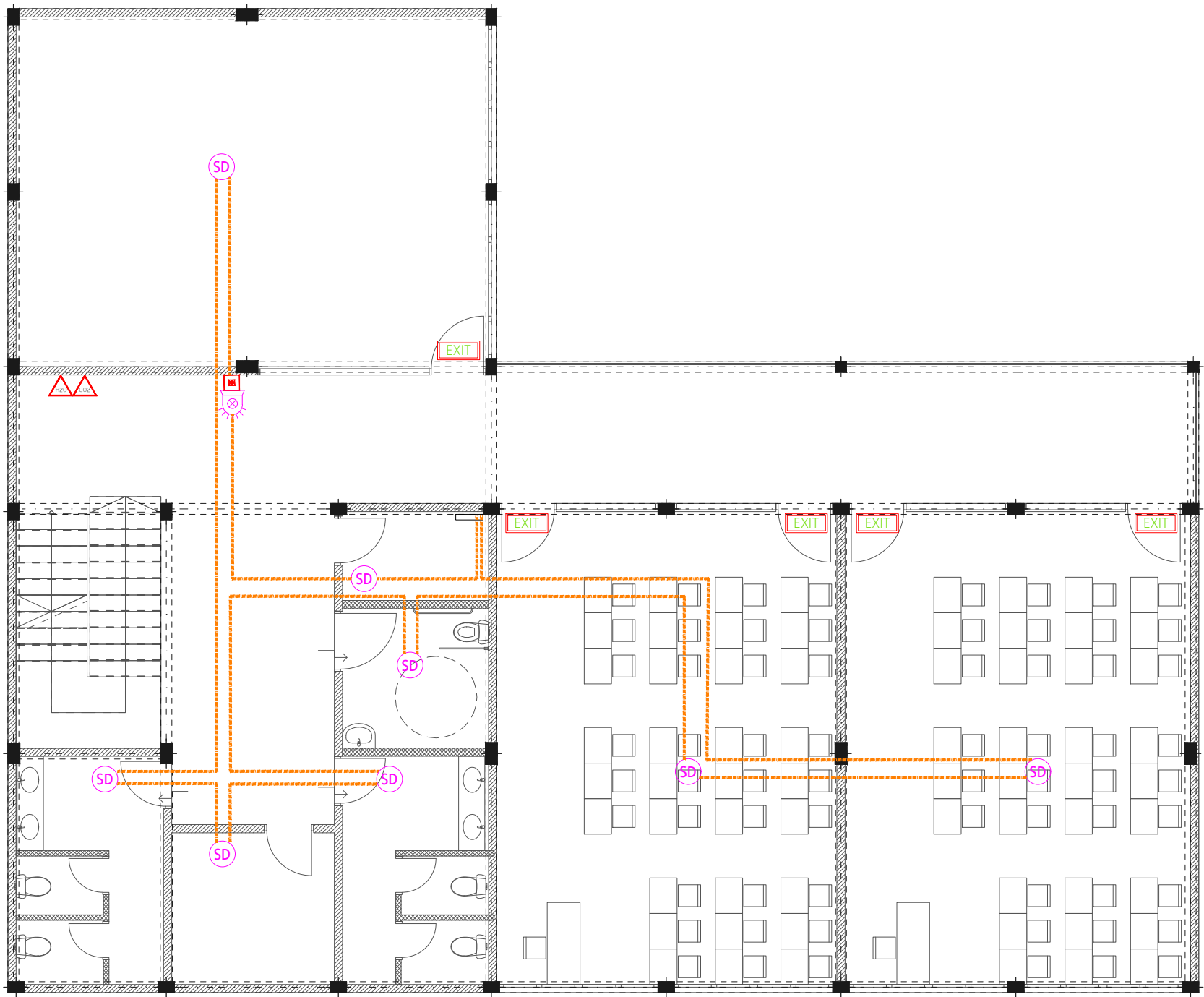
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Legend

-  CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point
-  Smoke Detector
-  Heat Detector
-  Beacon
-  Sounder Bell
-  2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits
-  Exit Sign
-  FACP



FIRST FLOOR FDP LAYOUT
1:100

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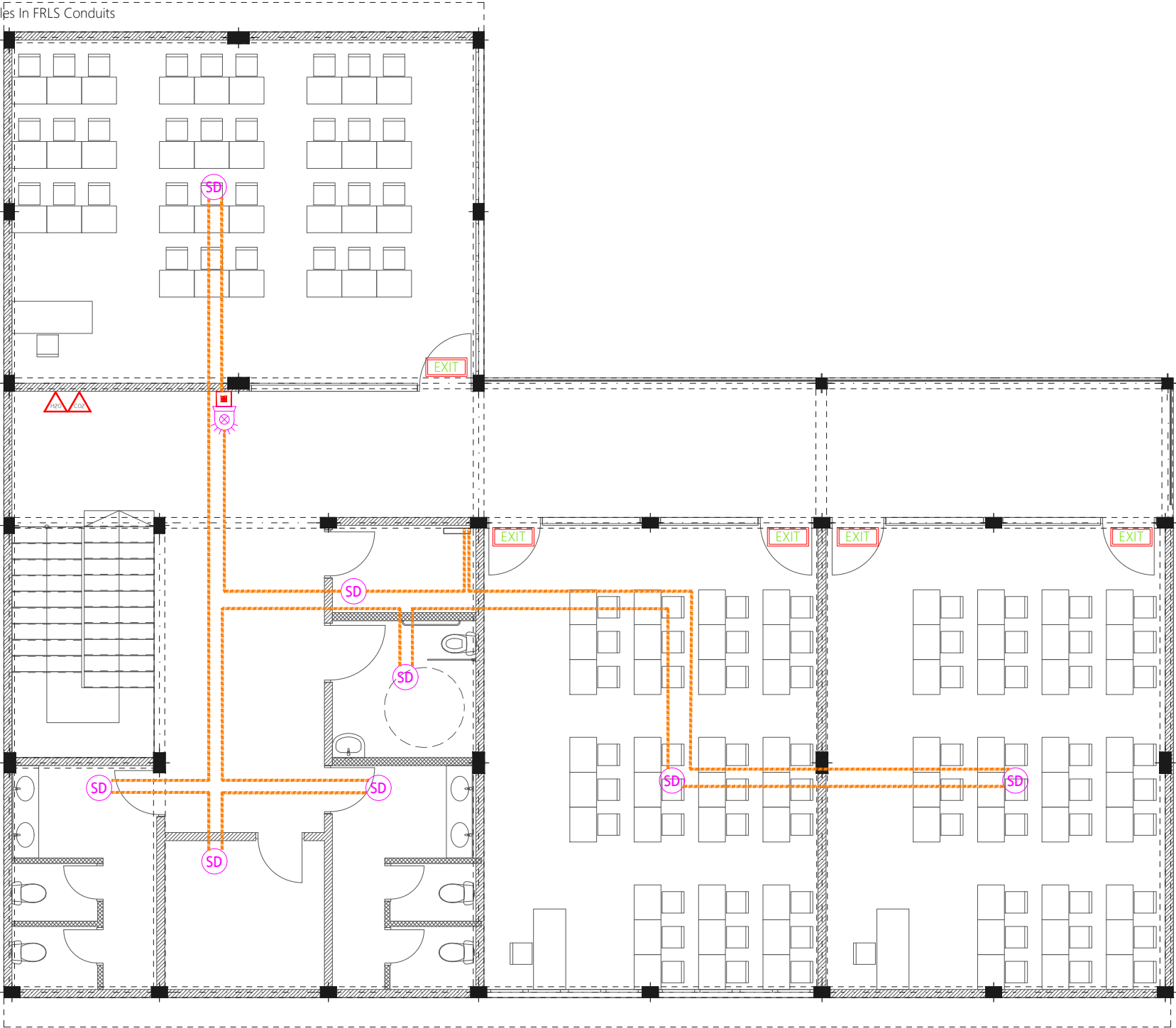
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Legend

-  CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point
-  Smoke Detector
-  Heat Detector
-  Beacon
-  Sounder Bell
-  2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits
-  Exit Sign
-  Fire Alarm Control Panel



SECOND FLOOR FDP LAYOUT
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



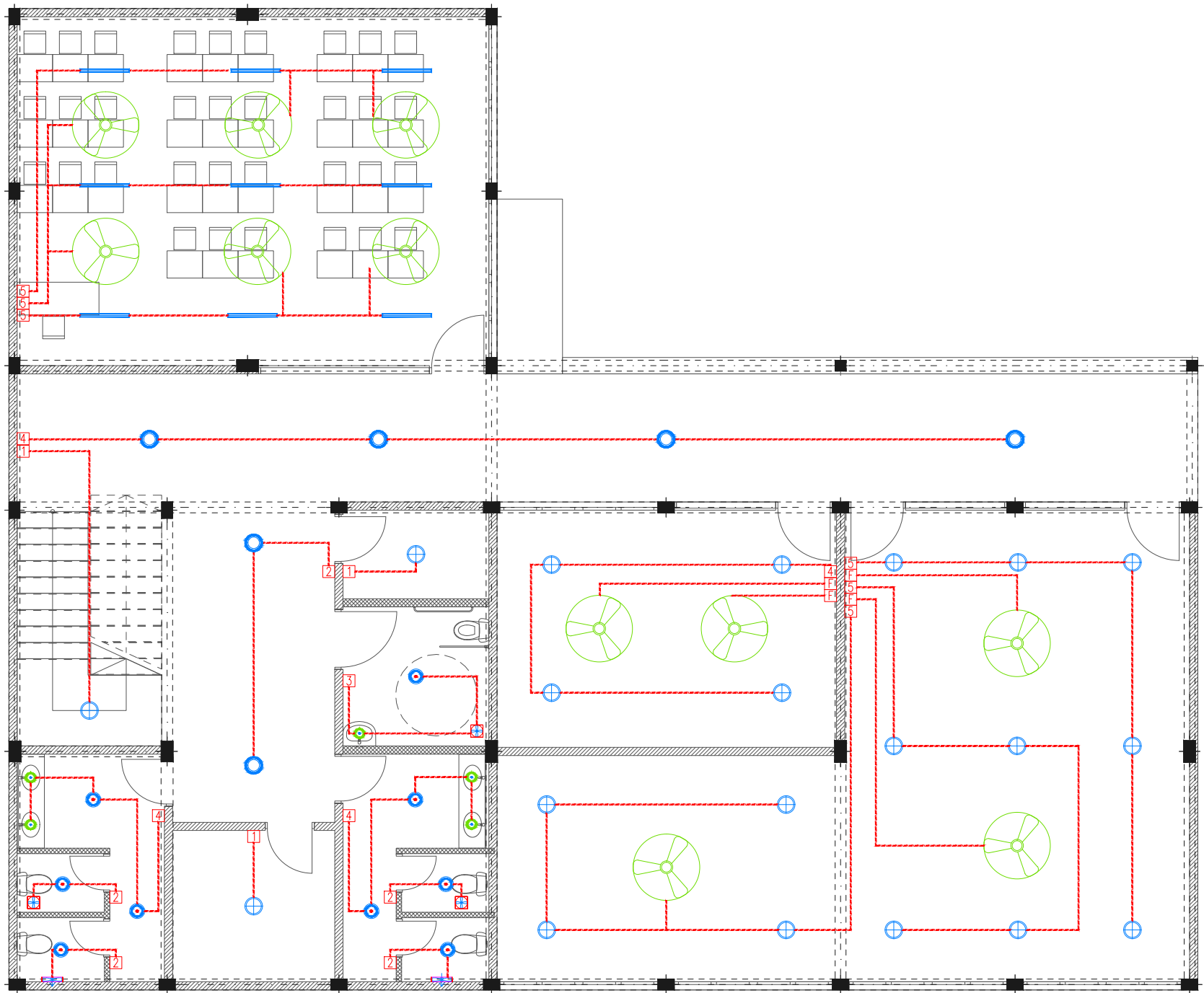
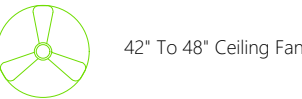
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Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  Weather Proof Wall Light IP65 (40W) - For Compound Lighting
-  3 Ft Led Tube Light
-  Ceiling Recessed Spot Light (3W)
-  Light Switch (1 Gang - 5 Gang)
-  Ceiling Fan Switch With Controller



GROUND FLOOR LIGHTING LAYOUT

1:100

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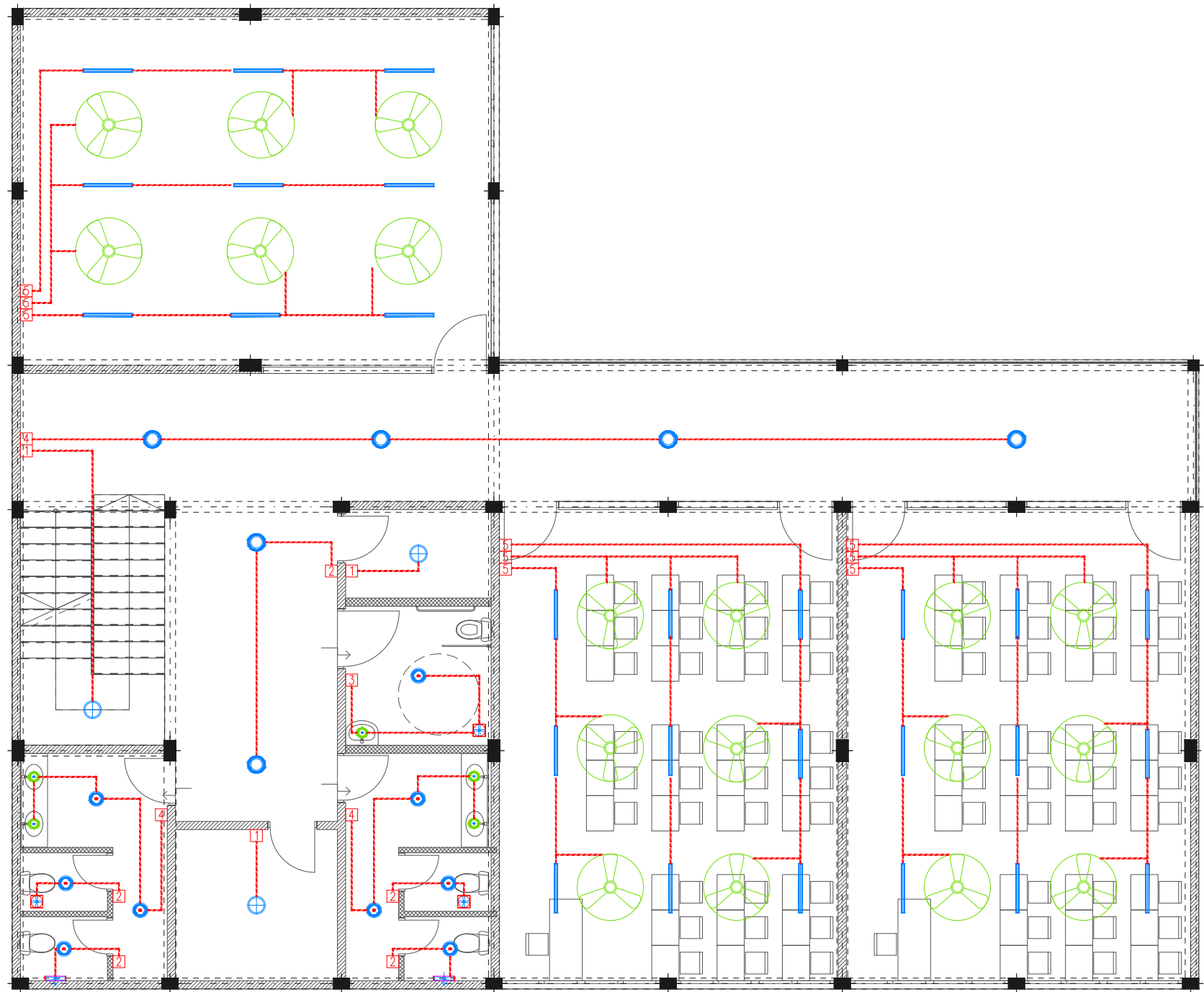
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---	EL -01
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Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  Weather Proof Wall Light IP65 (40W) - For Compound Lighting
-  3 Ft Led Tube Light
-  Ceiling Recessed Spot Light (3W)
-  Light Switch (1 Gang - 5 Gang)
-  Ceiling Fan Switch With Controller
-  42" To 48" Ceiling Fan



FIRST FLOOR LIGHTING LAYOUT
1:100

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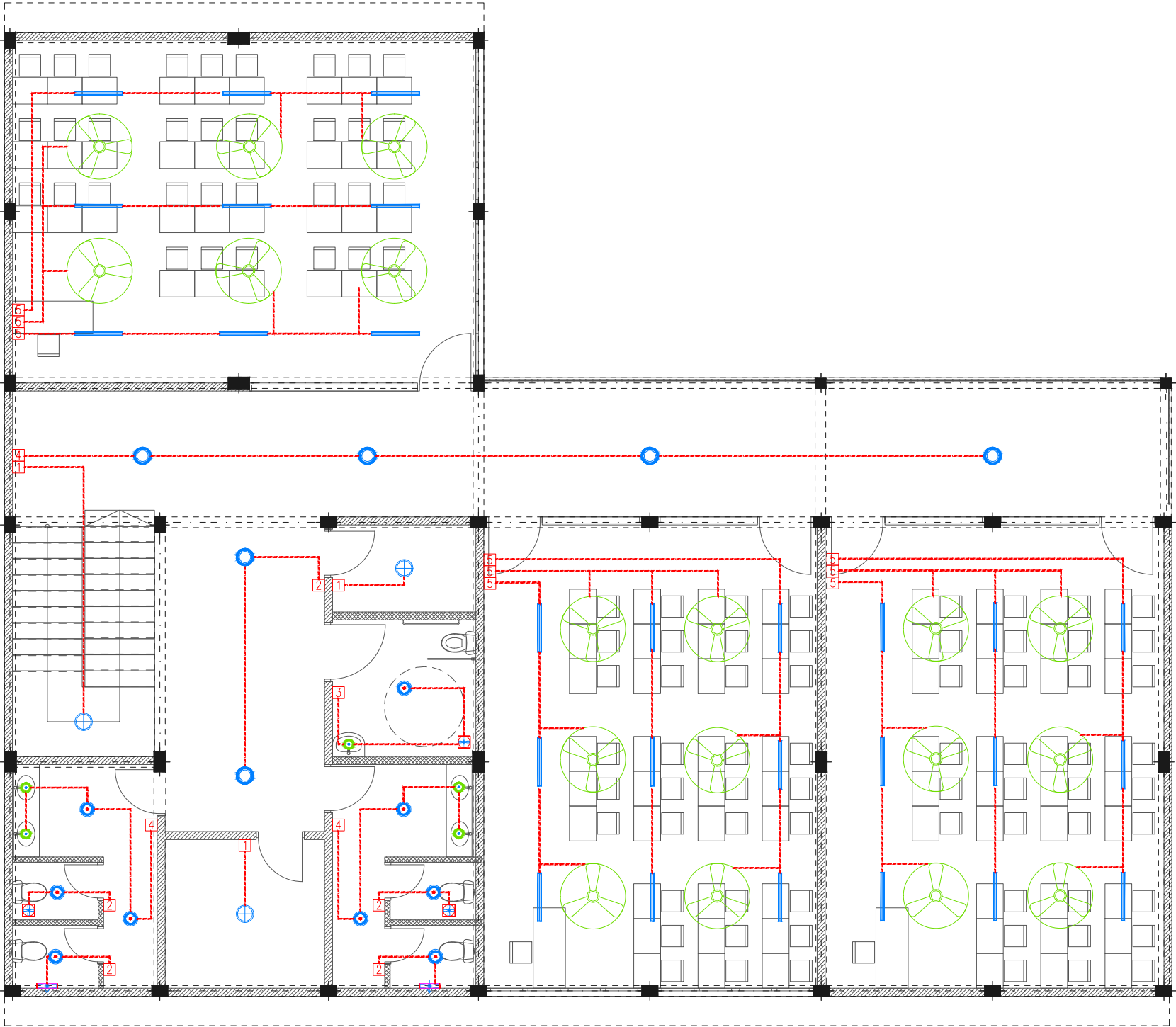
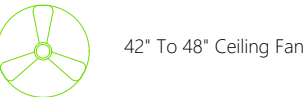
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Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  Weather Proof Wall Light IP65 (40W) - For Compound Lighting
-  3 Ft Led Tube Light
-  Ceiling Recessed Spot Light (3W)
-  Light Switch (1 Gang - 5 Gang)
-  Ceiling Fan Switch With Controller



SECOND FLOOR LIGHTING LAYOUT

1:100

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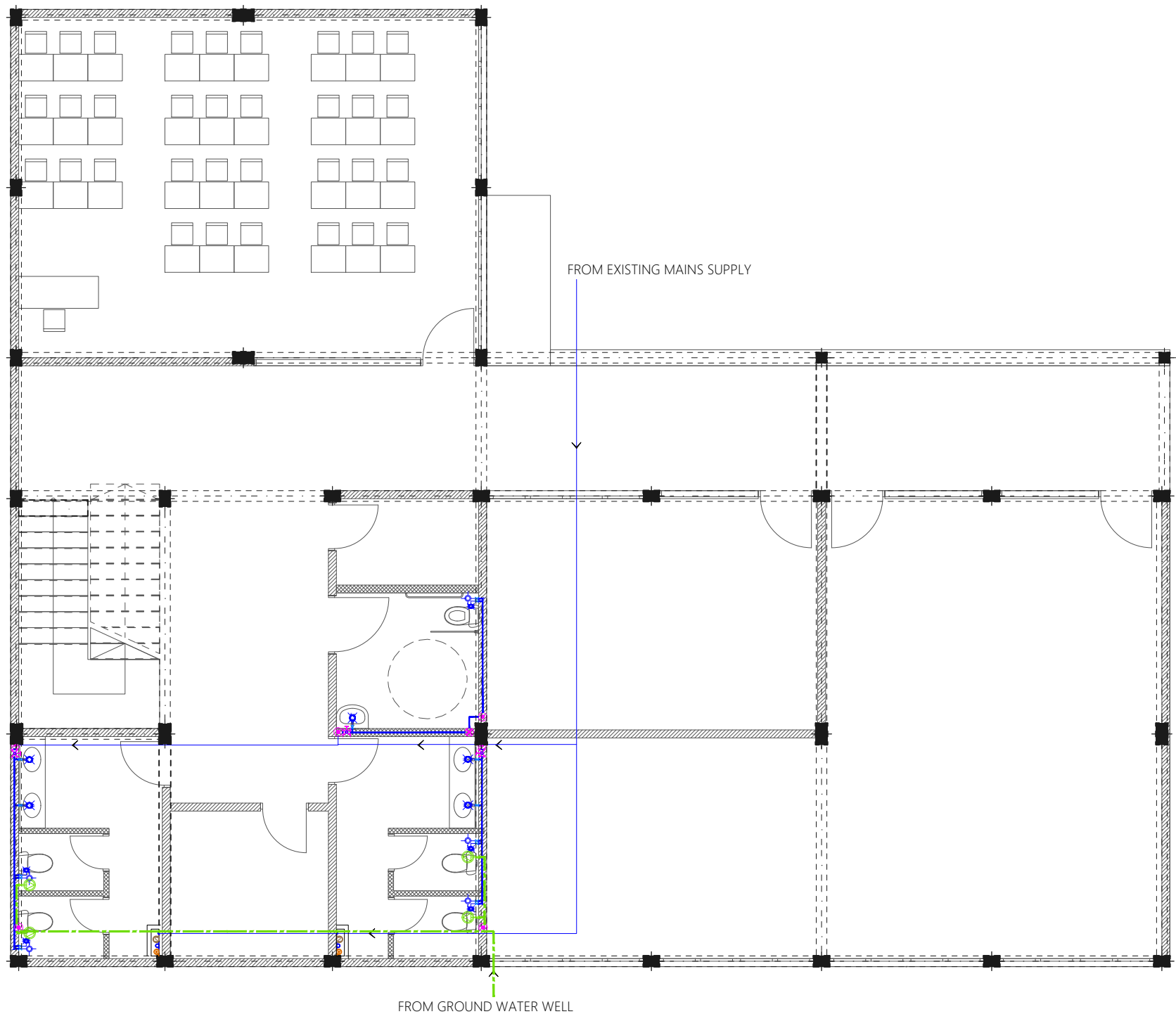
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Legend

- 16Ø Cold Water Supply To Basin Faucet
- 16Ø Cold Water Supply To Bidet Shower
- 16Ø Cold Water Supply To Cistern
- Gate Valve
- Rise In Wall
- Drop In Wall
- Angle Valve with cap for Ground Water Supply
- 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
- 25Ø Ground Water Supply Pipes Running Above False Ceiling

Notes: -

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



GROUND FLOOR PLUMBING LAYOUT

1:100

PROPOSED 03 STOREY BUILDING
**5 CLASSROOM BLOCK
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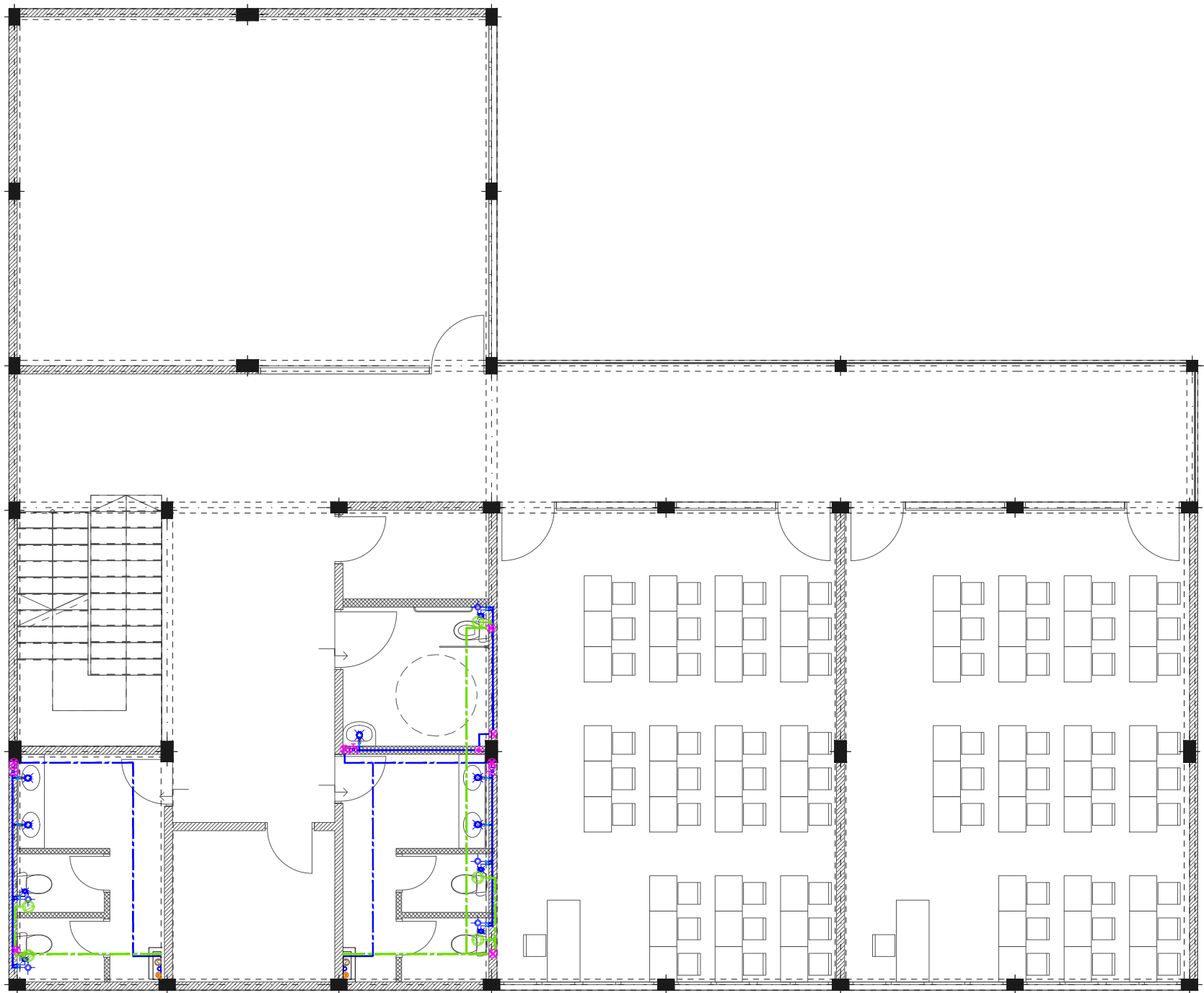
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Legend

- 16Ø Cold Water Supply To Basin Faucet
- 16Ø Cold Water Supply To Bidet Shower
- 16Ø Cold Water Supply To Cistern
- Gate Valve
- Rise In Wall
- Drop In Wall
- Angle Valve with cap for Ground Water Supply
- 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
- 25Ø Ground Water Supply Pipes Running Above False Ceiling

Notes: -

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



FIRST FLOOR PLUMBING LAYOUT

1:100

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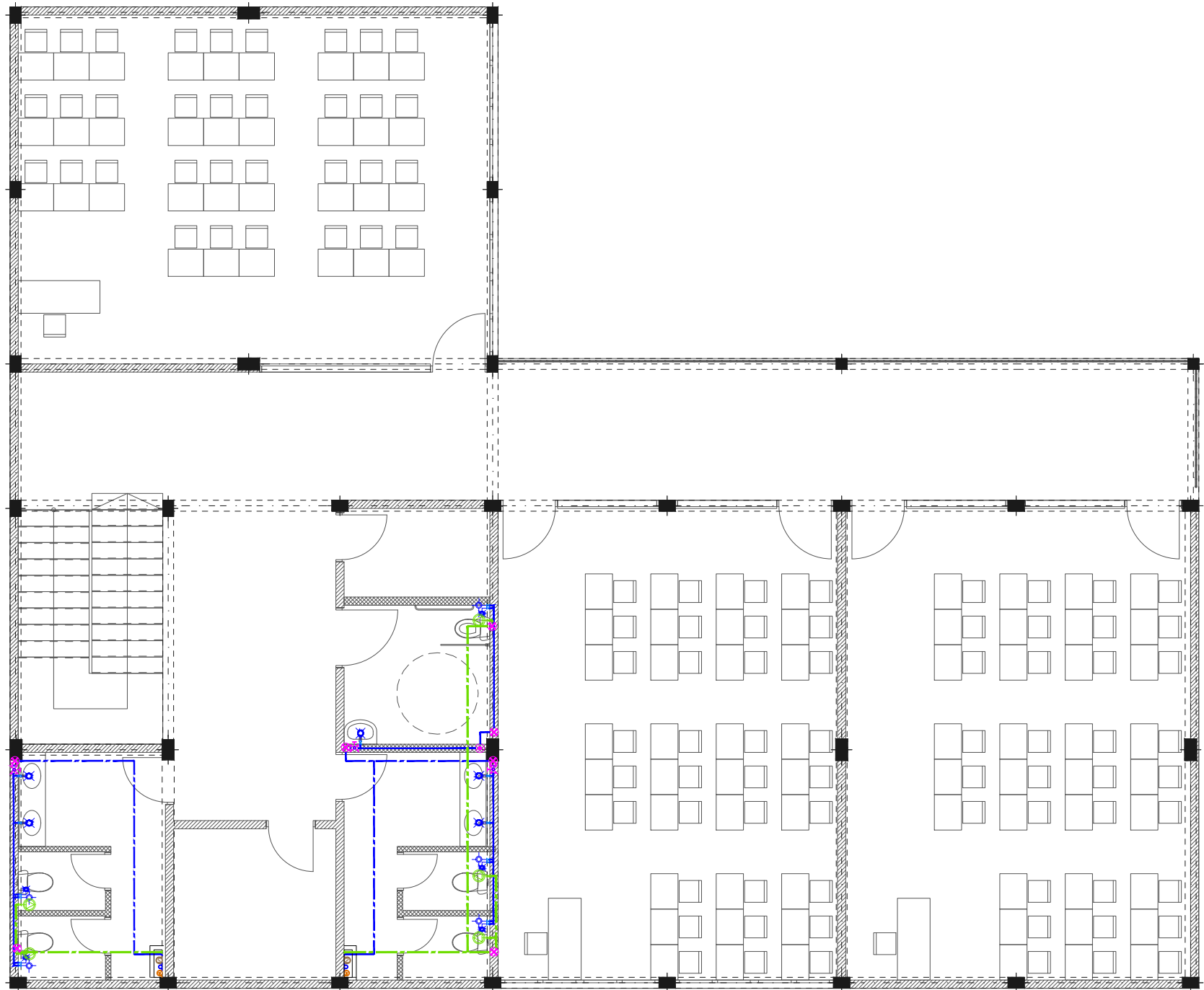
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Legend

- 16Ø Cold Water Supply To Basin Faucet
- 16Ø Cold Water Supply To Bidet Shower
- 16Ø Cold Water Supply To Cistern
- Gate Valve
- Rise In Wall
- Drop In Wall
- Angle Valve with cap for Ground Water Supply
- 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
- 25Ø Ground Water Supply Pipes Running Above False Ceiling

Notes: -

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



SECOND FLOOR PLUMBING LAYOUT

1:100

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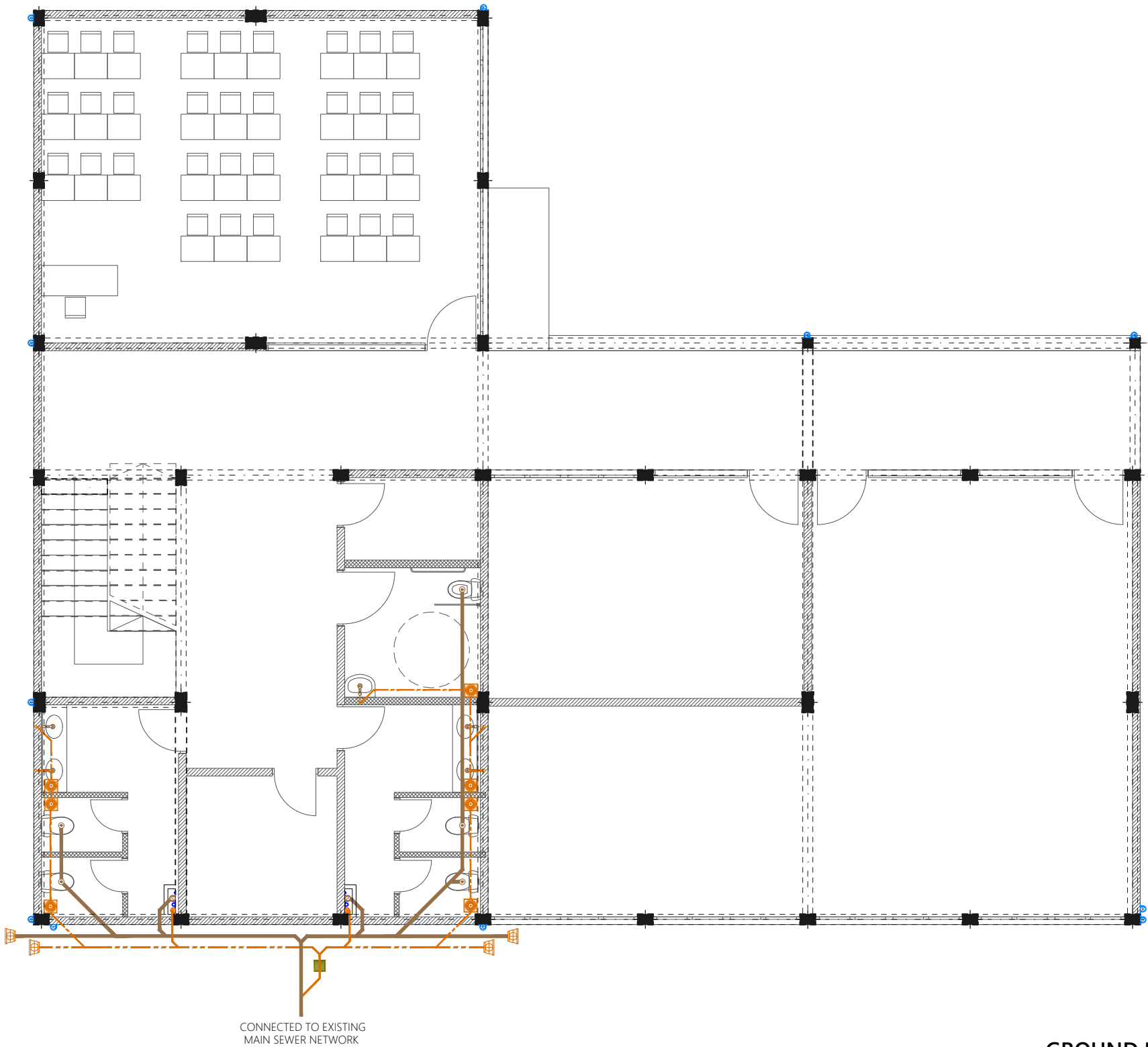
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Legend

- 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)
- 110Ø Rainwater Outlet Perforated Cowl
- Gully Trap
- Clean Out Point
- Bottle Trap
- Floor Drain
- Floor Gully

Notes: -

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



GROUND FLOOR DRAINAGE LAYOUT

1:100

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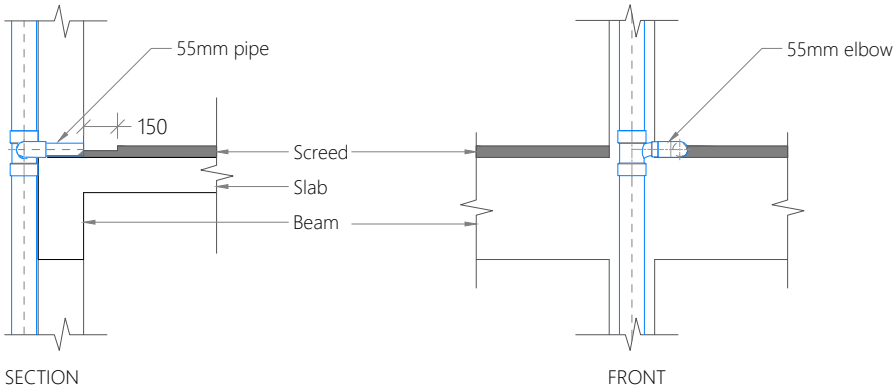
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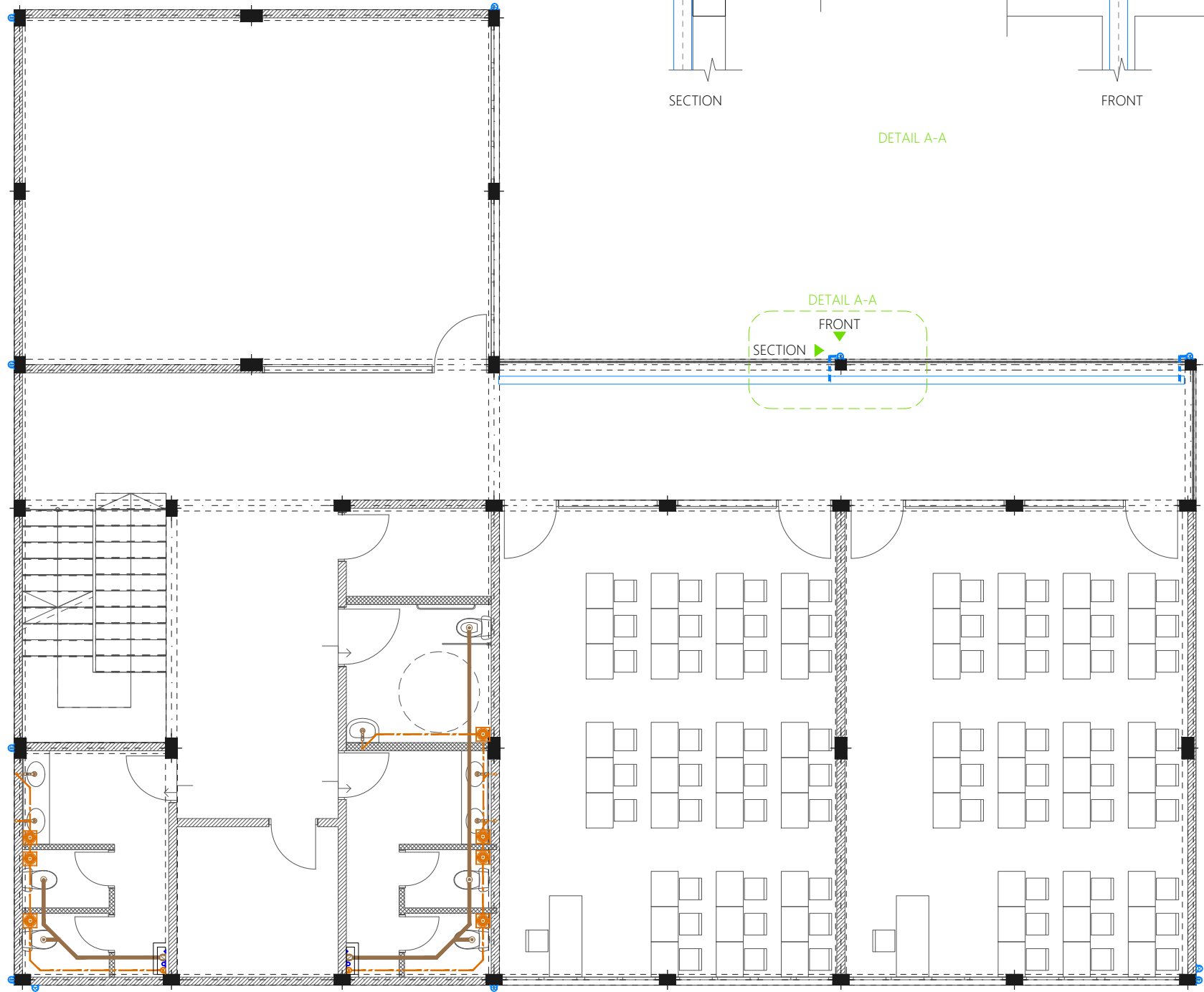
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- Gully Trap
- Clean Out Point
- Bottle Trap
- Floor Drain
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Notes: -

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- All Floor Drains Should Have 'P' Traps



DETAIL A-A



FIRST FLOOR DRAINAGE LAYOUT

1:100

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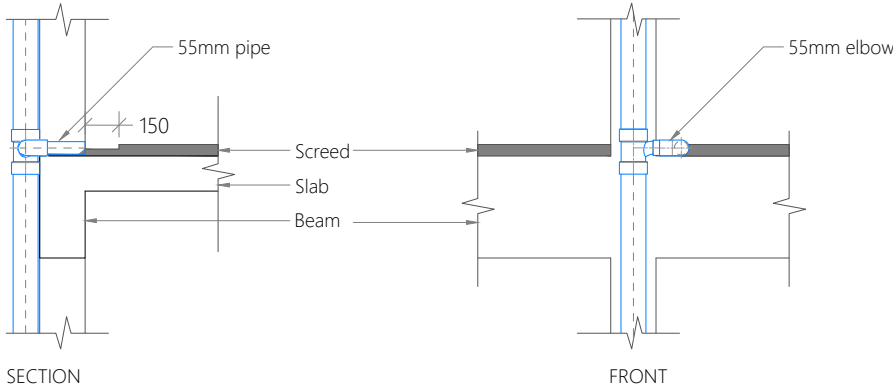
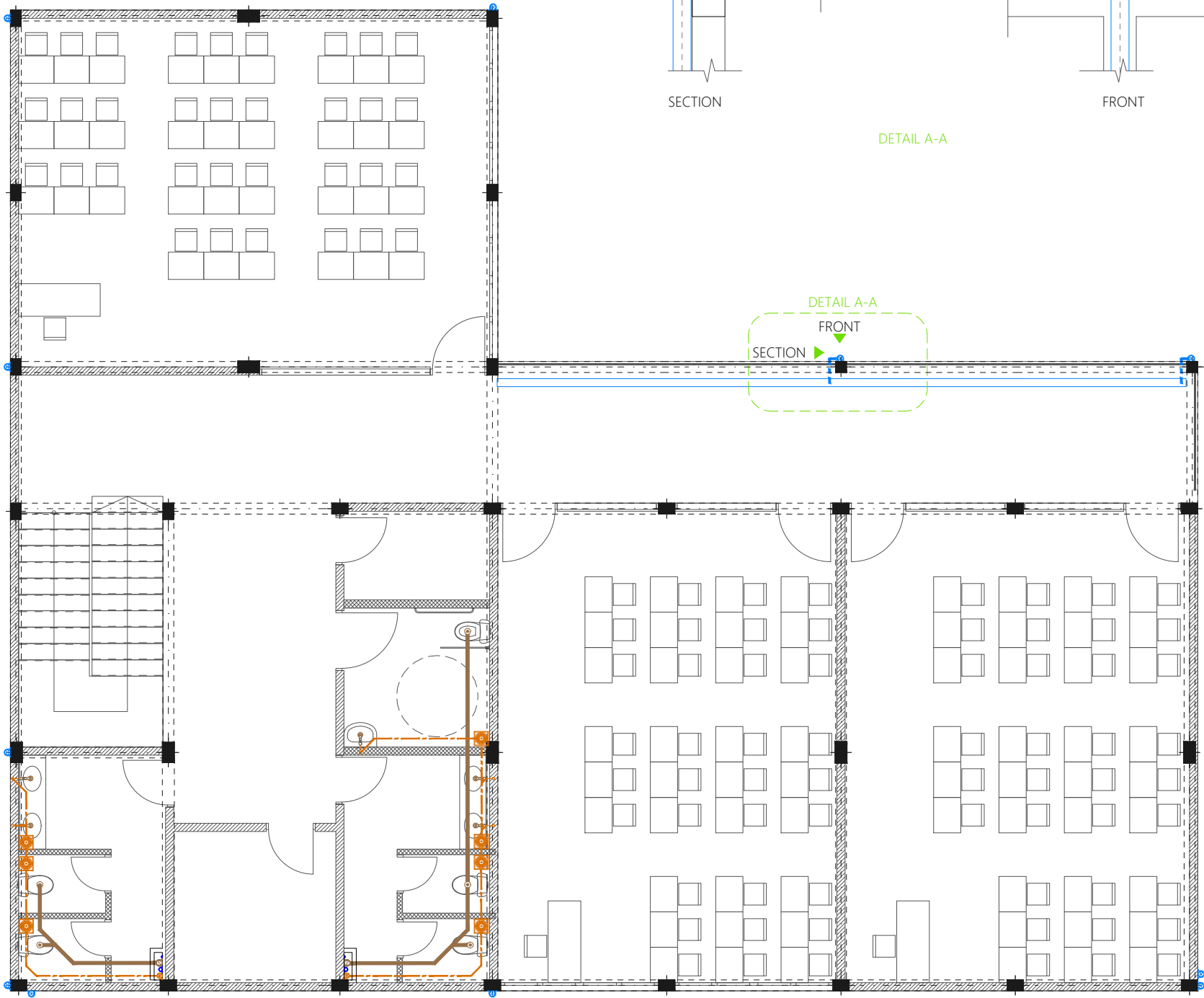
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Legend

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- 110Ø Soil Vent Pipe (uPVC Pipe)
- 82Ø Waste Pipe (uPVC Pipe)
- 82Ø Waste Vent Pipe (uPVC Pipe)
- 40Ø Waste Pipe (uPVC Pipe)
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- 110Ø Rain Water Pipes (uPVC Pipe)
- 110Ø Rainwater Outlet Perforated Cowl
- Gully Trap
- Clean Out Point
- Bottle Trap
- Floor Drain
- Floor Gully

Notes: -

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



SECOND FLOOR DRAINAGE LAYOUT
1:100

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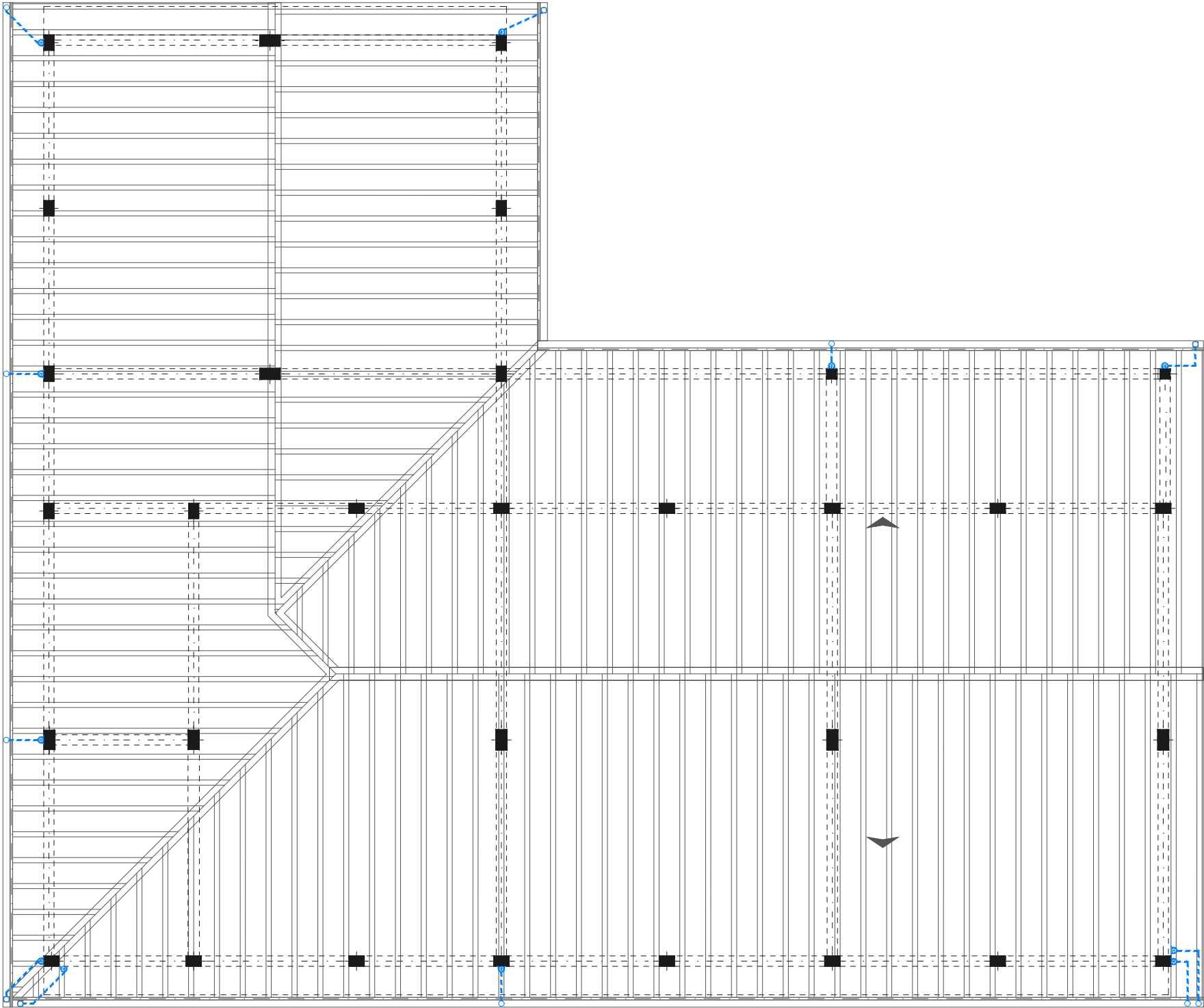
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Legend

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- Gully Trap
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Notes: -

- All Drainage Pipes Should Have At A Slope Of 1/150
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ROOF DRAINAGE LAYOUT
1:100

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