

BUILDING SERVICES DRAWINGS OF

PROPOSED 03 STOREY

**CLASSROOMS, LIBRARY & OFFICE**

**HA. THURAAKUNU**

For Ministry Of Education

















By Epoch Associates Pvt. Ltd





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

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
-  Telephone Extension
-  WS
-  Public Address System
-  M

-  82Ø PVC Duct For Tel./Internet Cable Lead In Below Ground Slab
-  Main Incoming Cable For Power In 110Ø PVC Duct Below Ground Slab

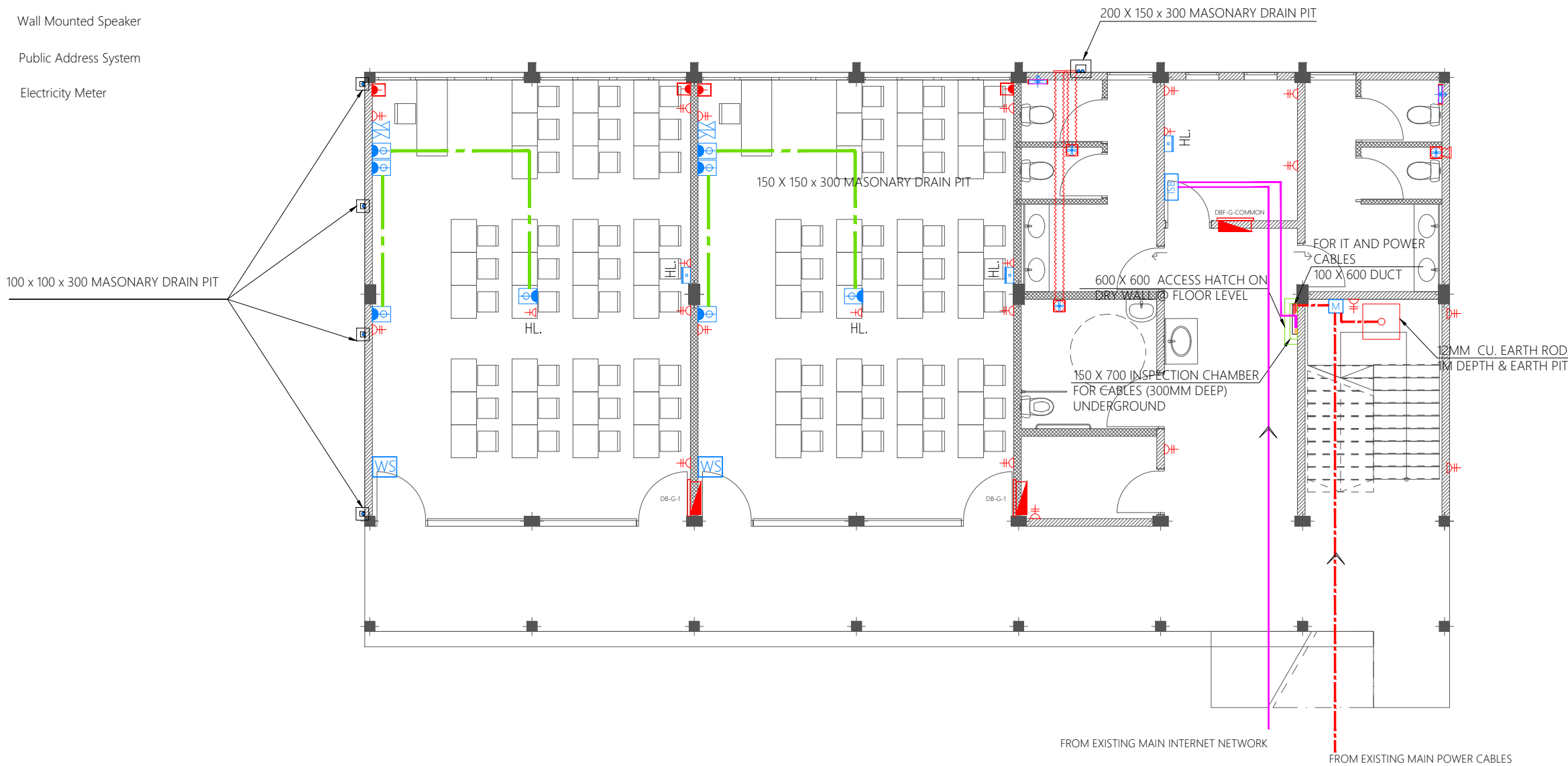
Notes: -

- 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

-  AC Wall Mount Air Conditioner
-  CU Outdoor Condensing Unit
-  Refrigerant Pipes
-  25Ø Condensate Drain Pipe
-  40Ø Condensate Drain Riser Pipe
-  Ceiling Mounted Exhaust Fan 90m3/hr
-  Wall Mounted Exhaust Fan

Notes: -

Where Condensate Drain Pipes Are 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



GROUND FLOOR POWER AND ACV LAYOUT

1:100

PROPOSED 03 STOREY BUILDING  
**OFFICE, LIBRARY &  
CLASSROOMS,  
HA. THURAAKUNU**

Client:  
**Ministry Of Education**

April 2021

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



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Rev: --- ---  
Page: PAC-01

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
- 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

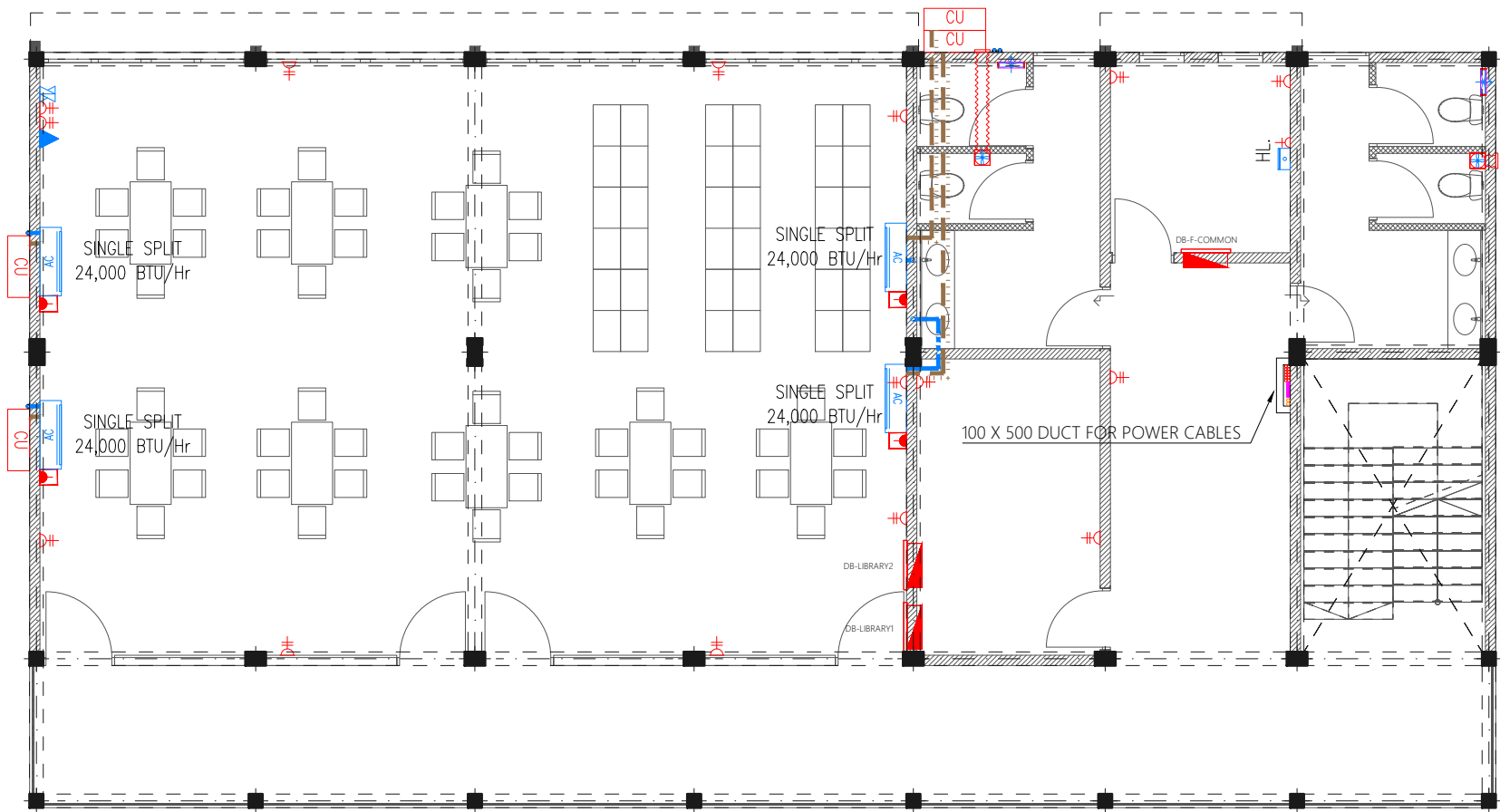
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- Wall Mount Air Conditioner
- Outdoor Condensing Unit
- Refrigerant Pipes
- 25Ø Condensate Drain Pipe
- 40Ø Condensate Drain Riser Pipe
- Ceiling Mounted Exhaust Fan 90m3/hr
- Wall Mounted Exhaust Fan

Notes: -

Where Condensate Drain Pipes Are 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



FIRST FLOOR POWER AND ACV LAYOUT

1:100

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Rev: ---  
Page: PAC-02

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
- 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: -  
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- Wall Mount Air Conditioner
- Outdoor Condensing Unit
- Refrigerant Pipes
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- 40Ø Condensate Drain Riser Pipe
- Ceiling Mounted Exhaust Fan 90m3/hr
- Wall Mounted Exhaust Fan

Notes: -  
Where Condensate Drain Pipes Are 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



SECOND FLOOR POWER AND ACV LAYOUT

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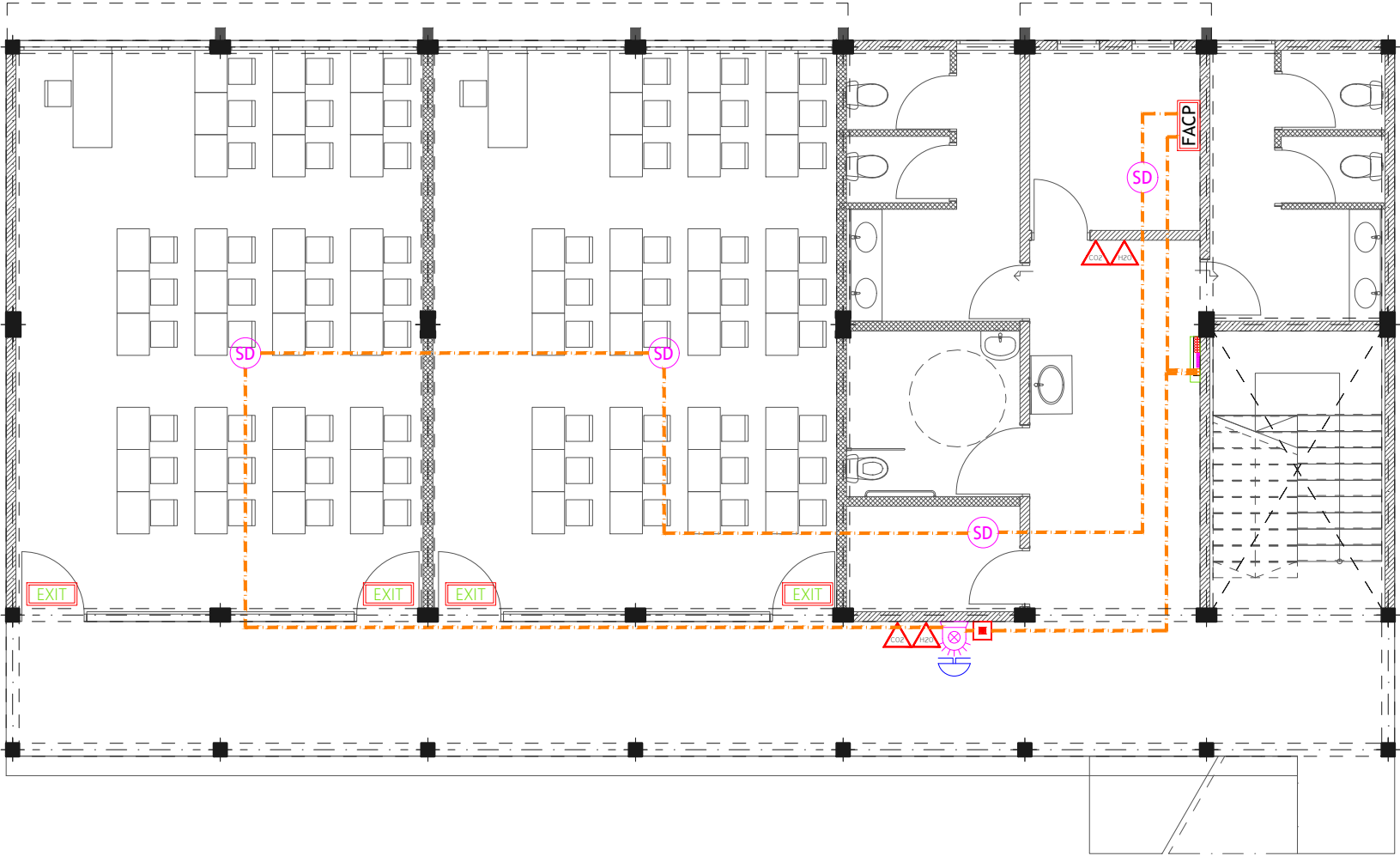
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Legend

-  CO<sub>2</sub> 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
-  Exit Sign
-  Fire Alarm Control Panel



GROUND FLOOR FDP LAYOUT  
1:100











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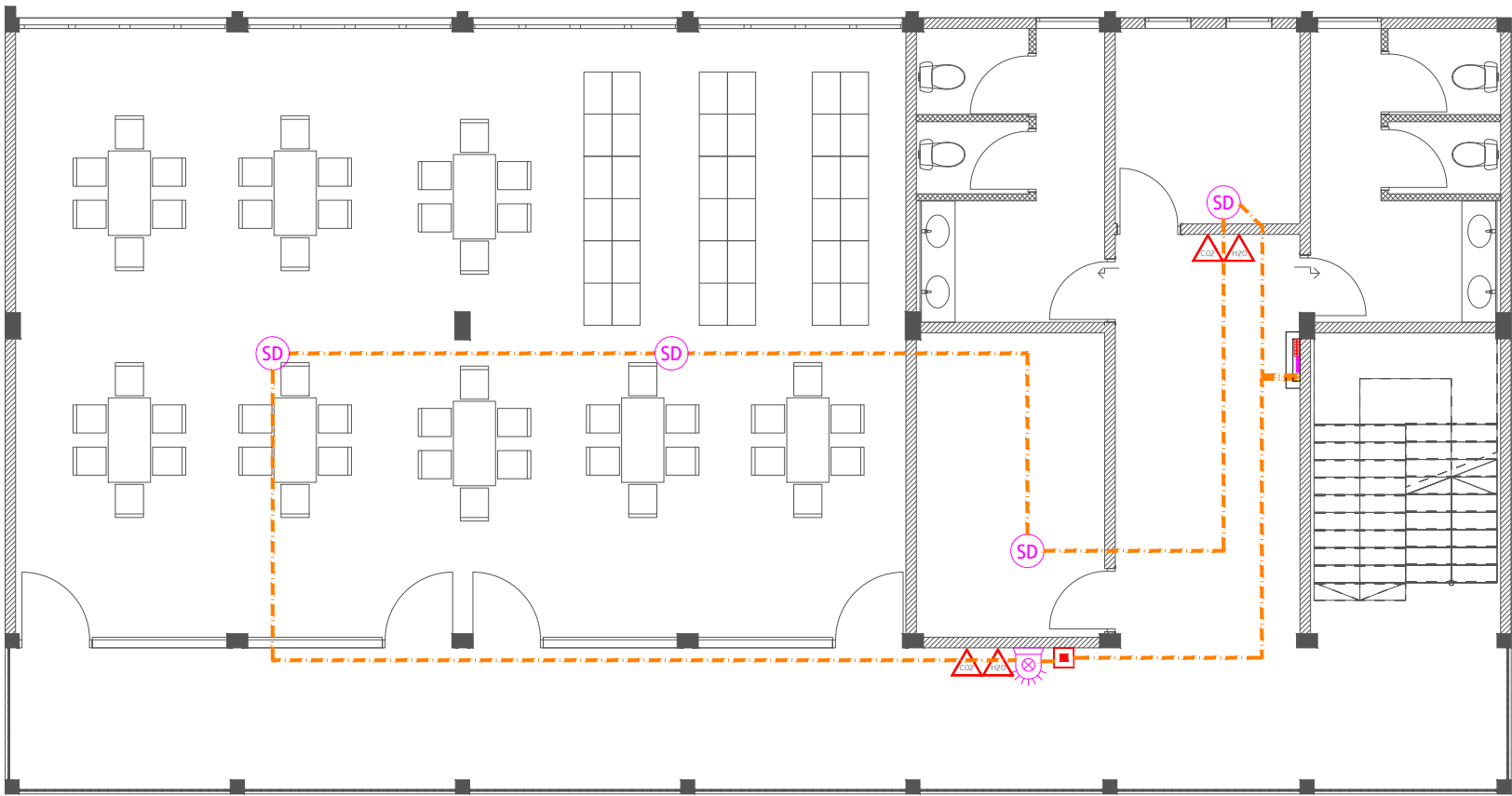
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---	FDP -01
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Legend

-  CO<sub>2</sub> 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
-  Exit Sign
-  Fire Alarm Control Panel



FIRST FLOOR FDP LAYOUT  
1:100











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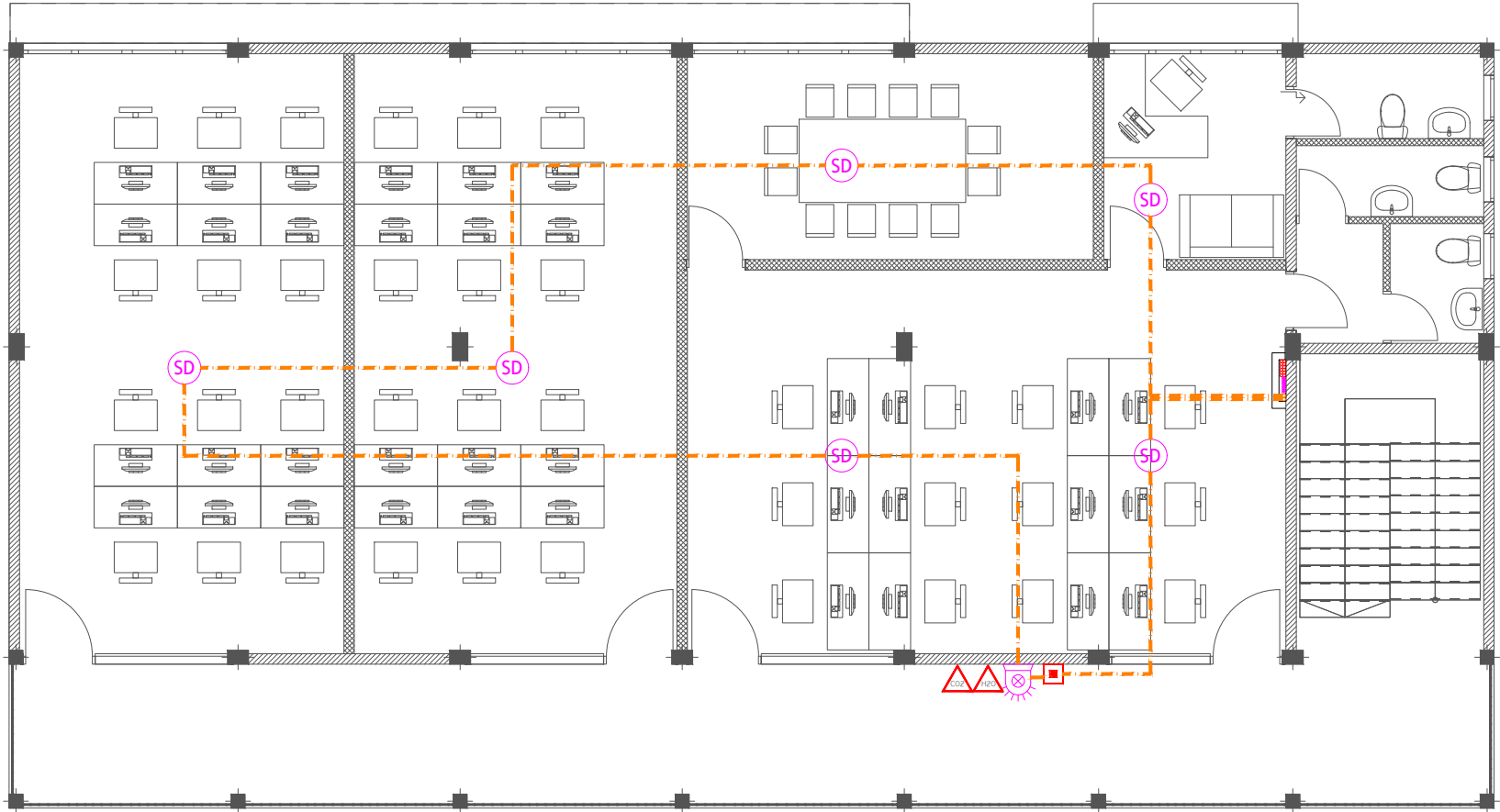
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Legend

-  CO<sub>2</sub> 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
-  EXIT Sign
-  FACP Fire Alarm Control Panel



SECOND FLOOR FDP LAYOUT  
1:100

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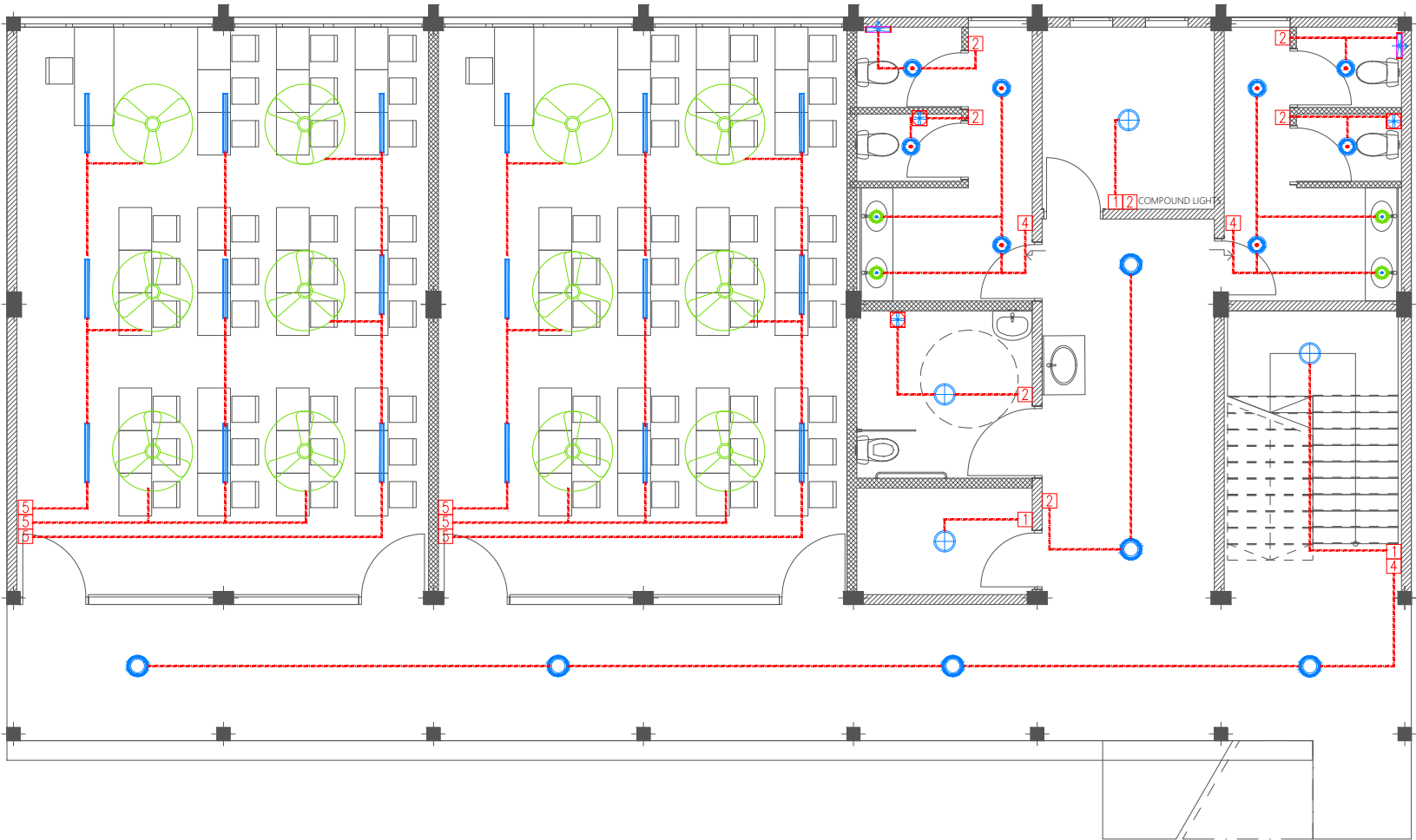
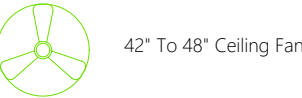
  
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Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  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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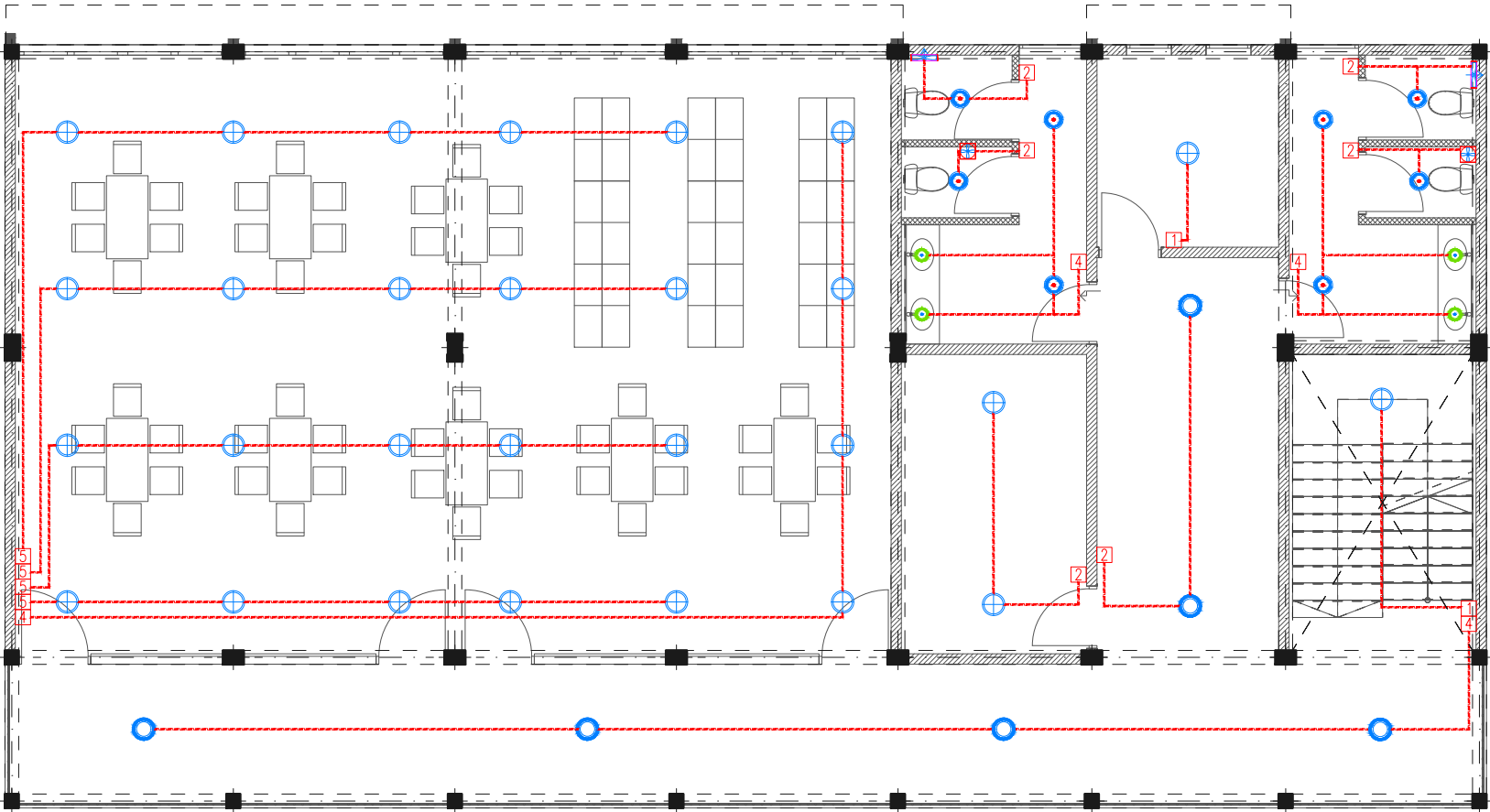
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Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  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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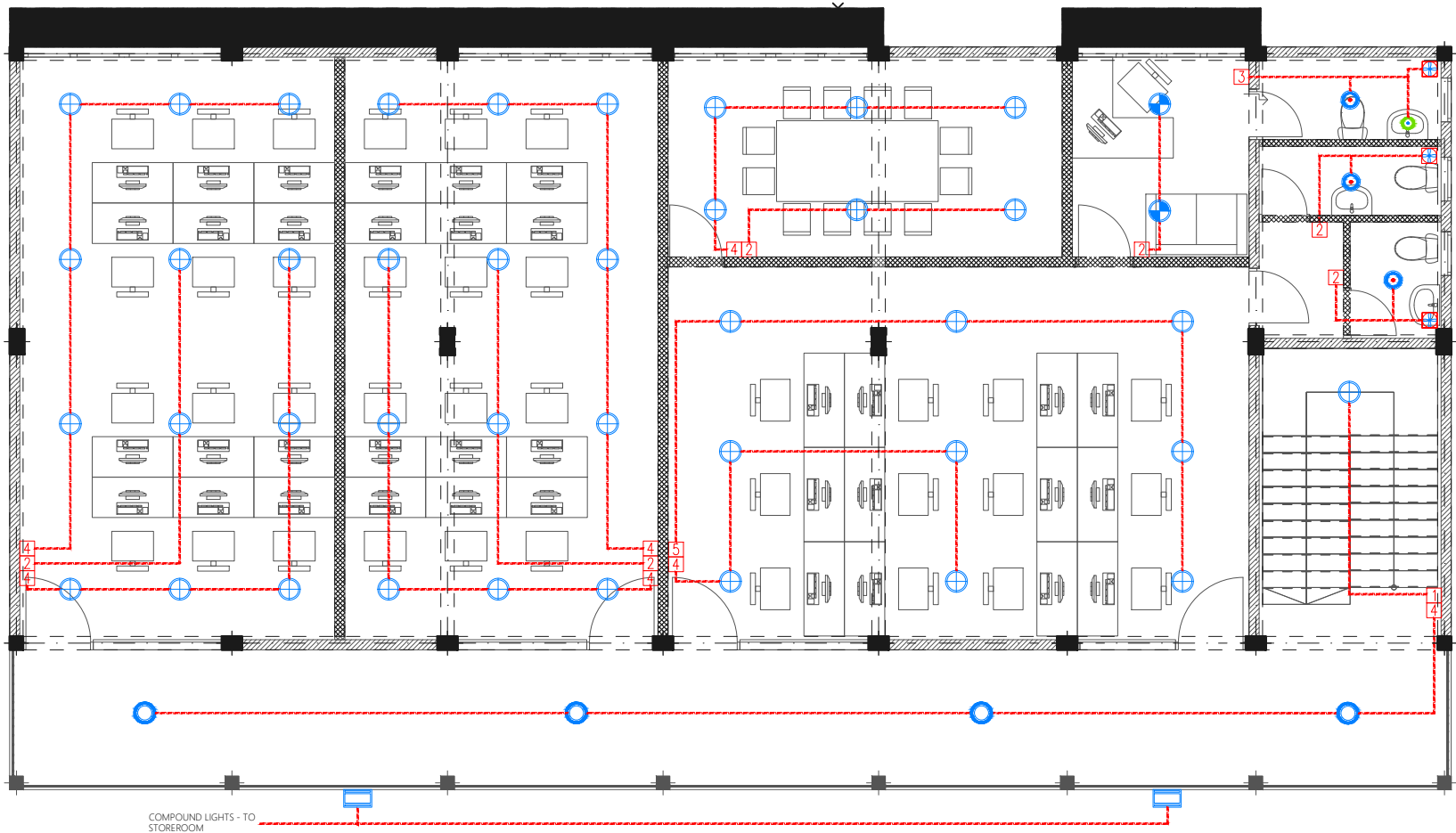
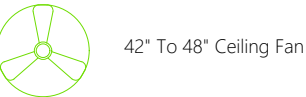
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---	EL -02
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Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  100W, HPS, Wall Mounted Light, IP 65
-  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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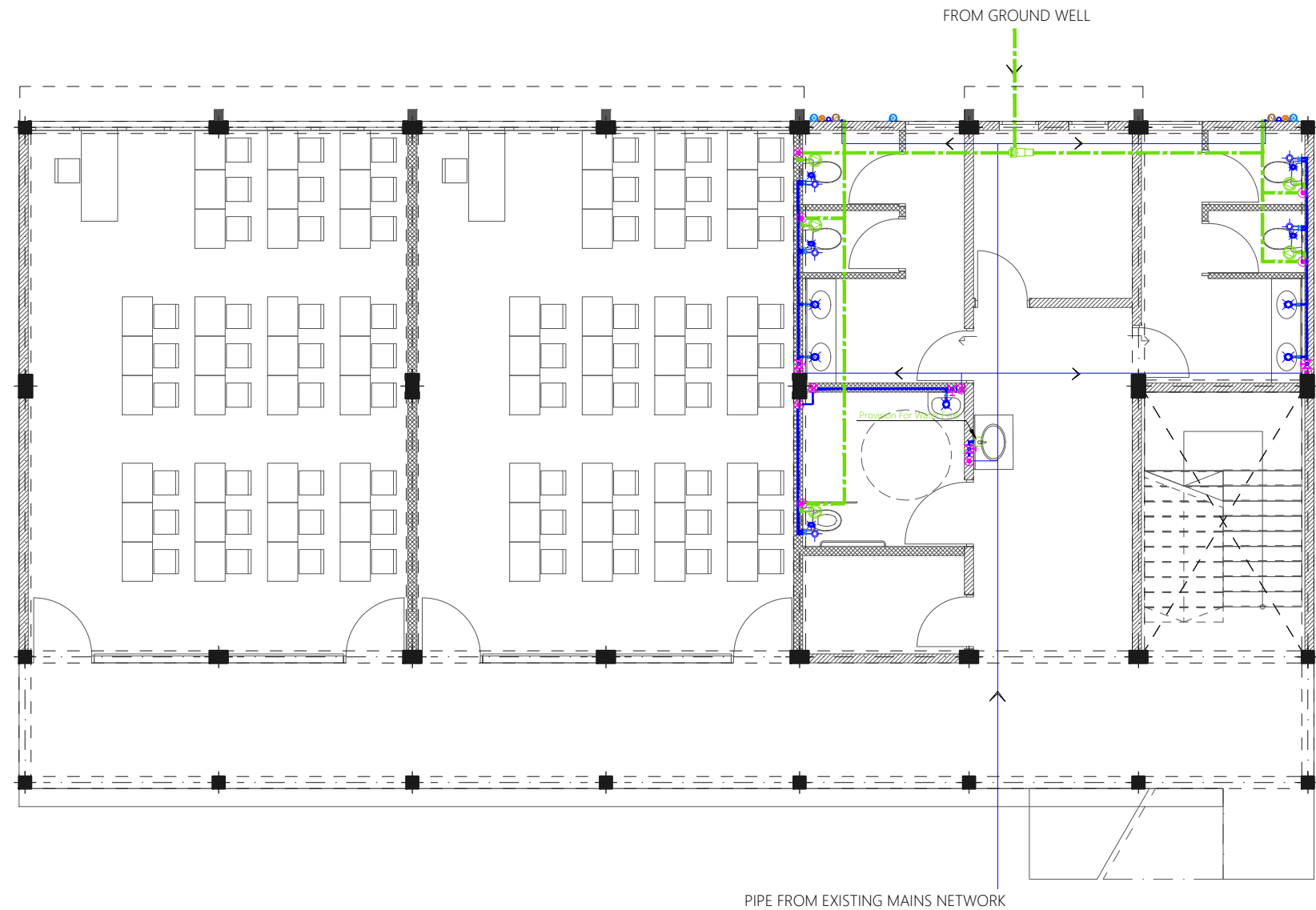
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Legend

- 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

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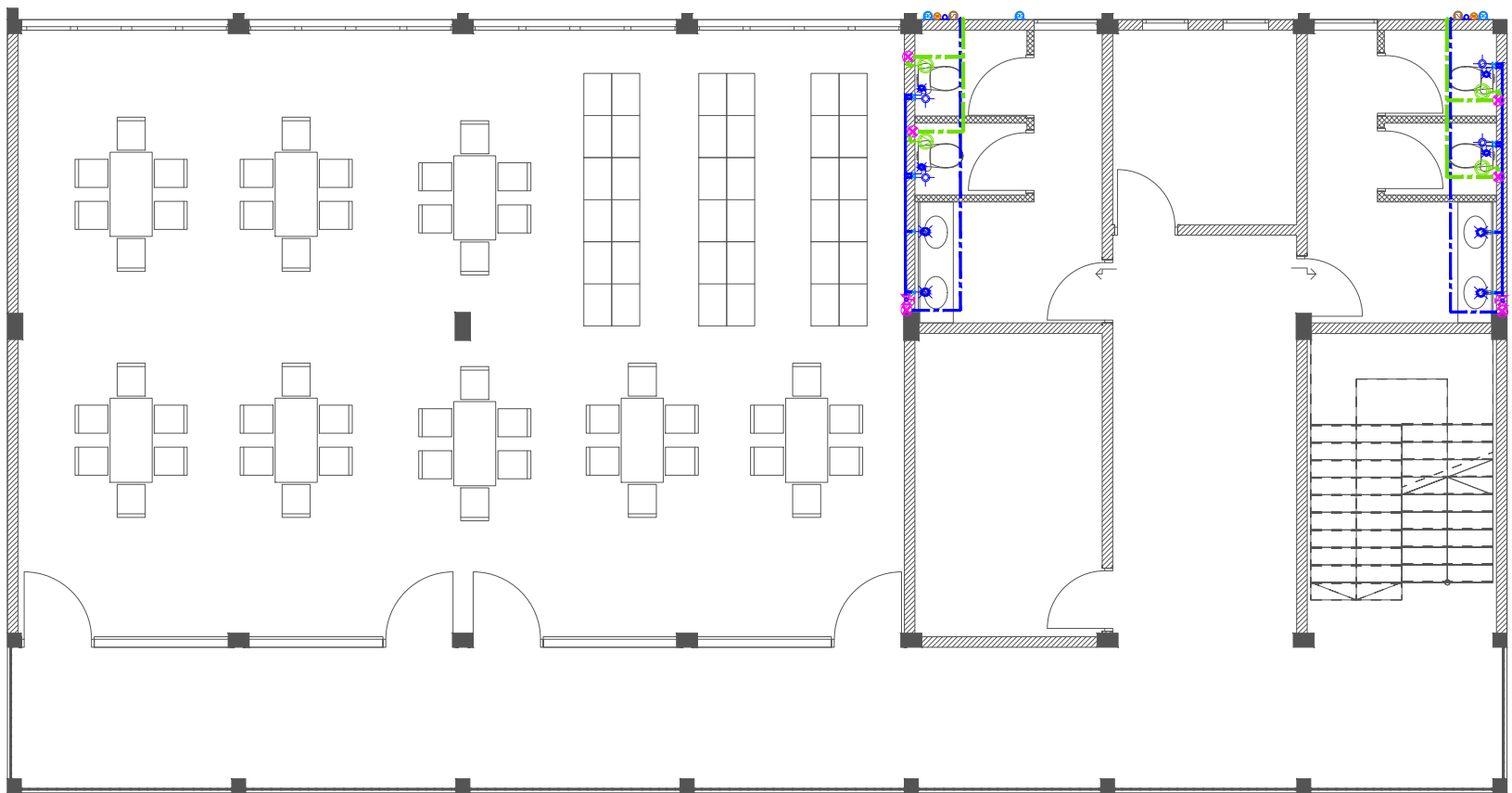
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Legend

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- Gate Valve
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Notes: -

- All Cold Water Pipes Should Be PVC
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FIRST FLOOR PLUMBING LAYOUT

1:100

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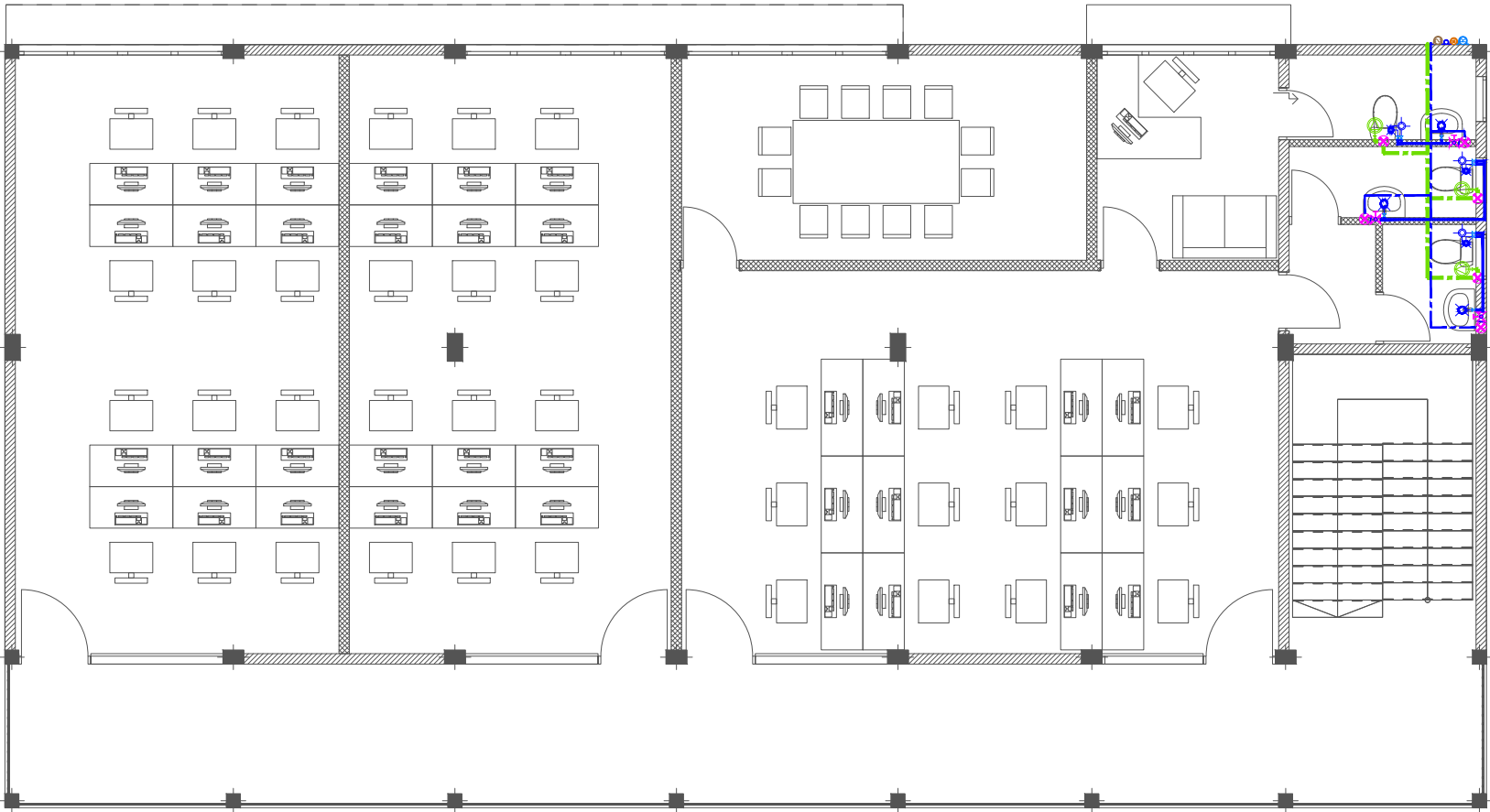
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Legend

- 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  
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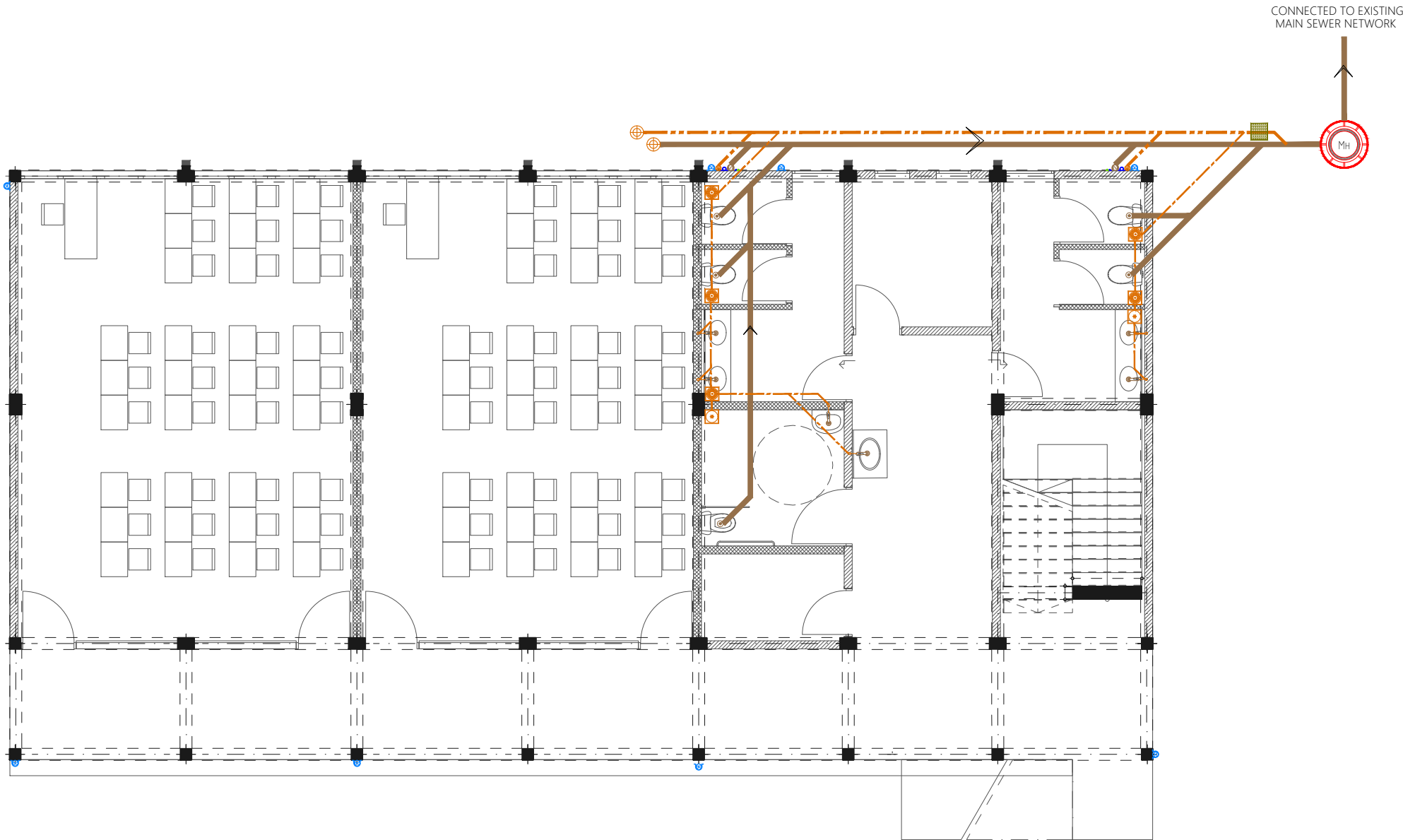
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Legend

- 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
- Rodding Eye
- 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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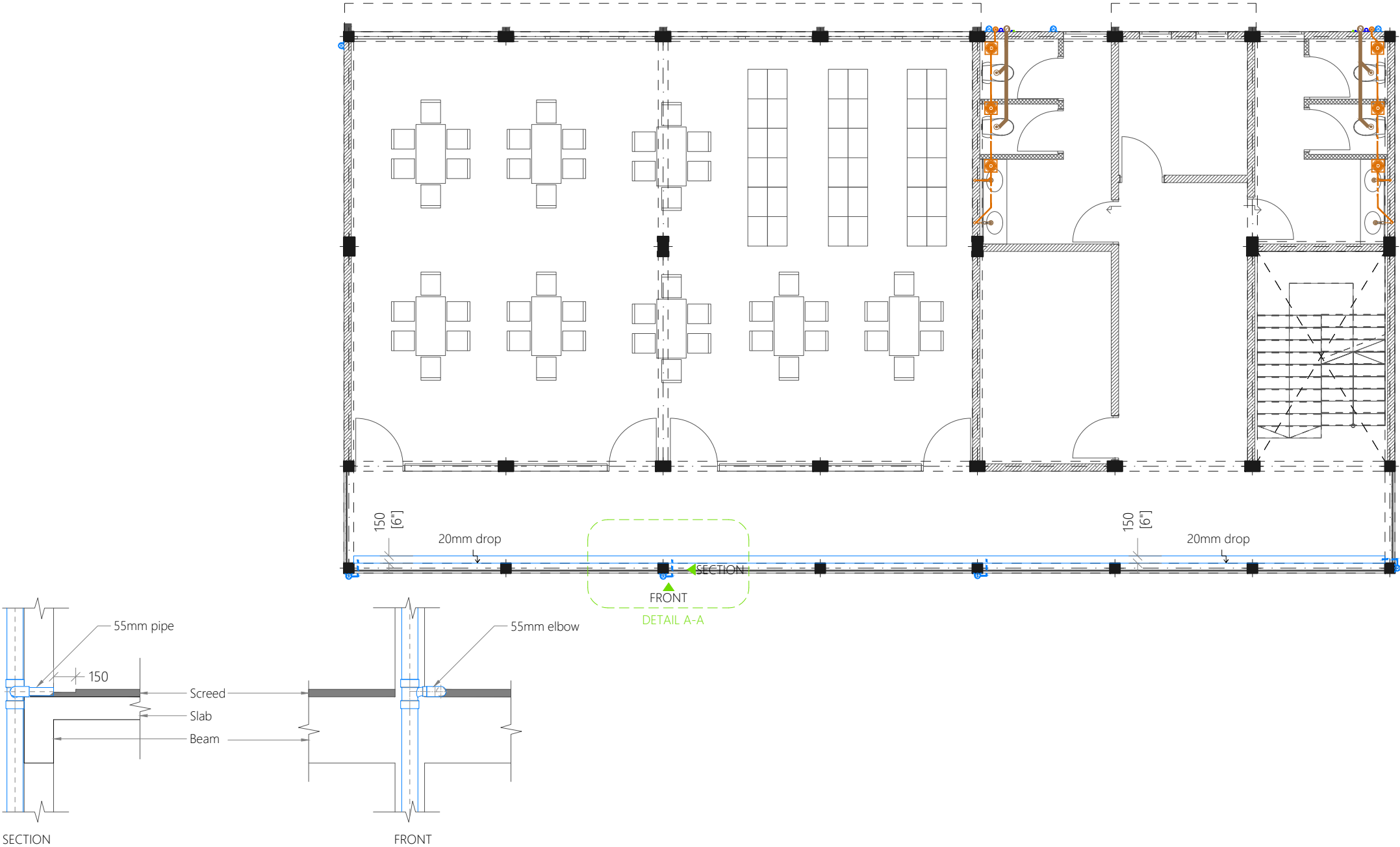
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Legend

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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)
- 63Ø Manhole Vent Pipe (uPVC Pipe)
- 110Ø Rain Water Pipes (uPVC Pipe)
- 110Ø Rainwater Outlet Perforated Cowl
- Gully Trap
- 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



FIRST FLOOR DRAINAGE LAYOUT  
1:100

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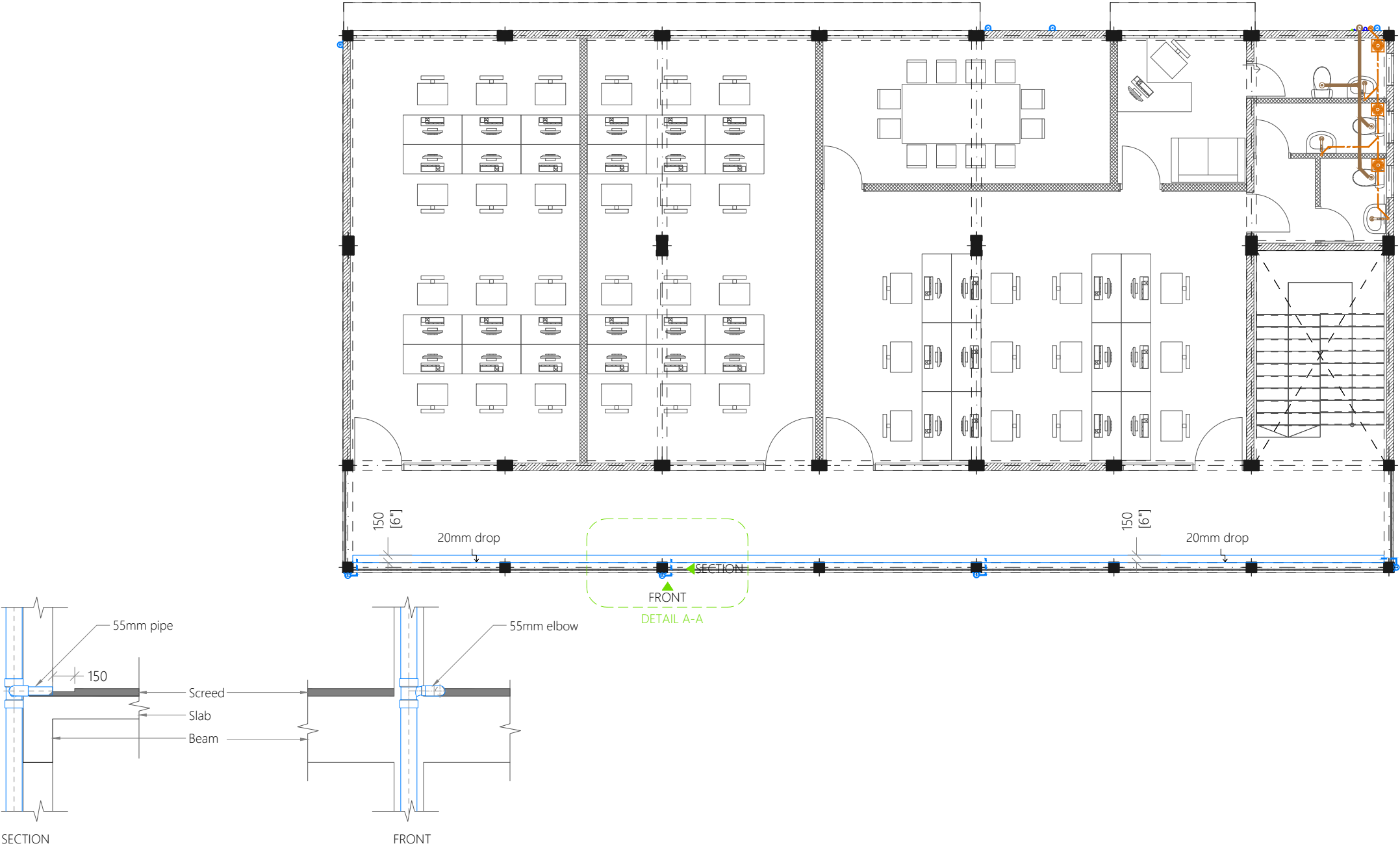
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Page: **DR- 02**

Legend

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- 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
- 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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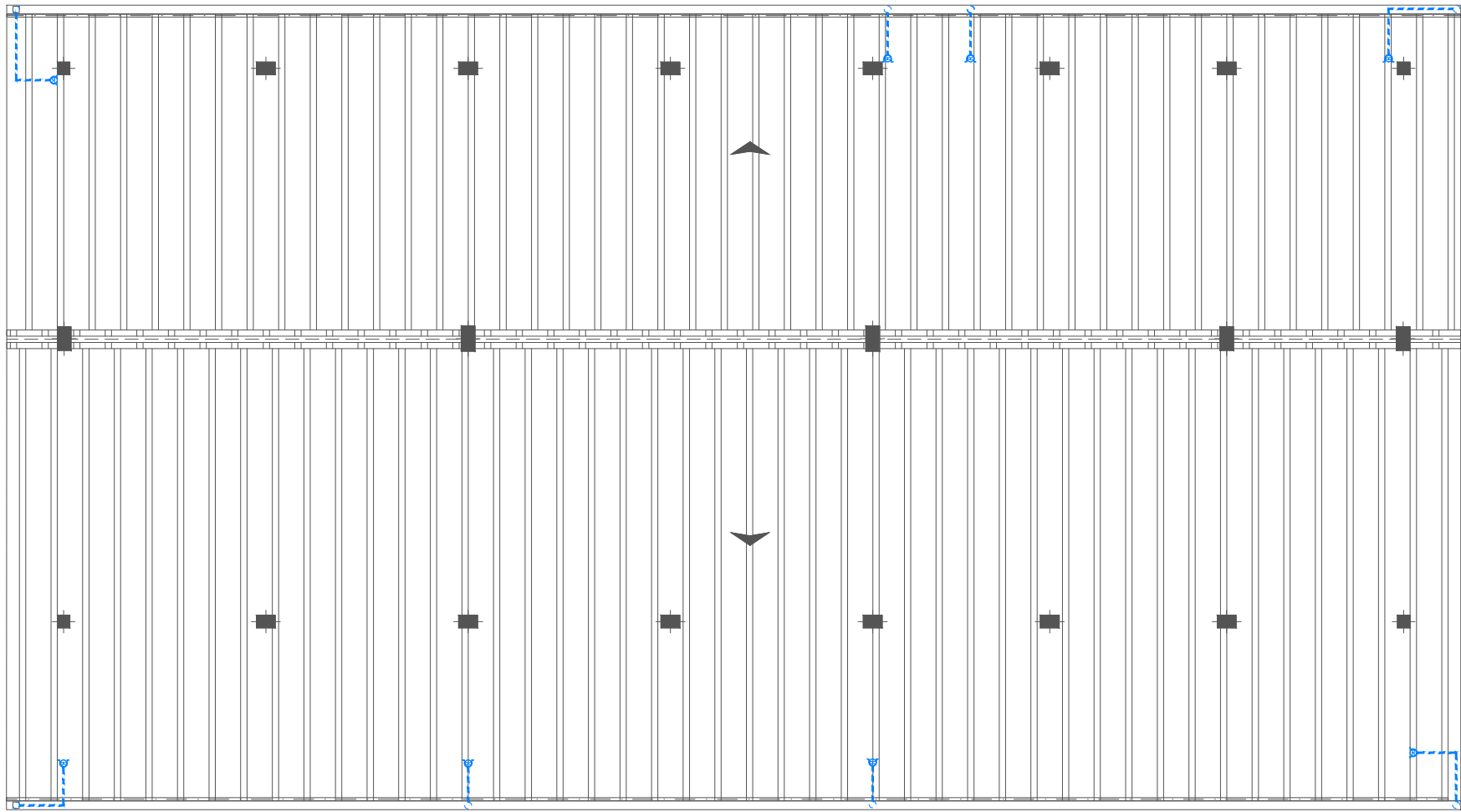


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