

BUILDING SERVICES DRAWINGS OF
PROPOSED 03 STOREY
**MULTI PURPOSE HALL AND FOUR CLASSROOM
BLOCK, N. LANDHOO**
For Ministry Of Education

By Epoch Associates Pvt. Ltd



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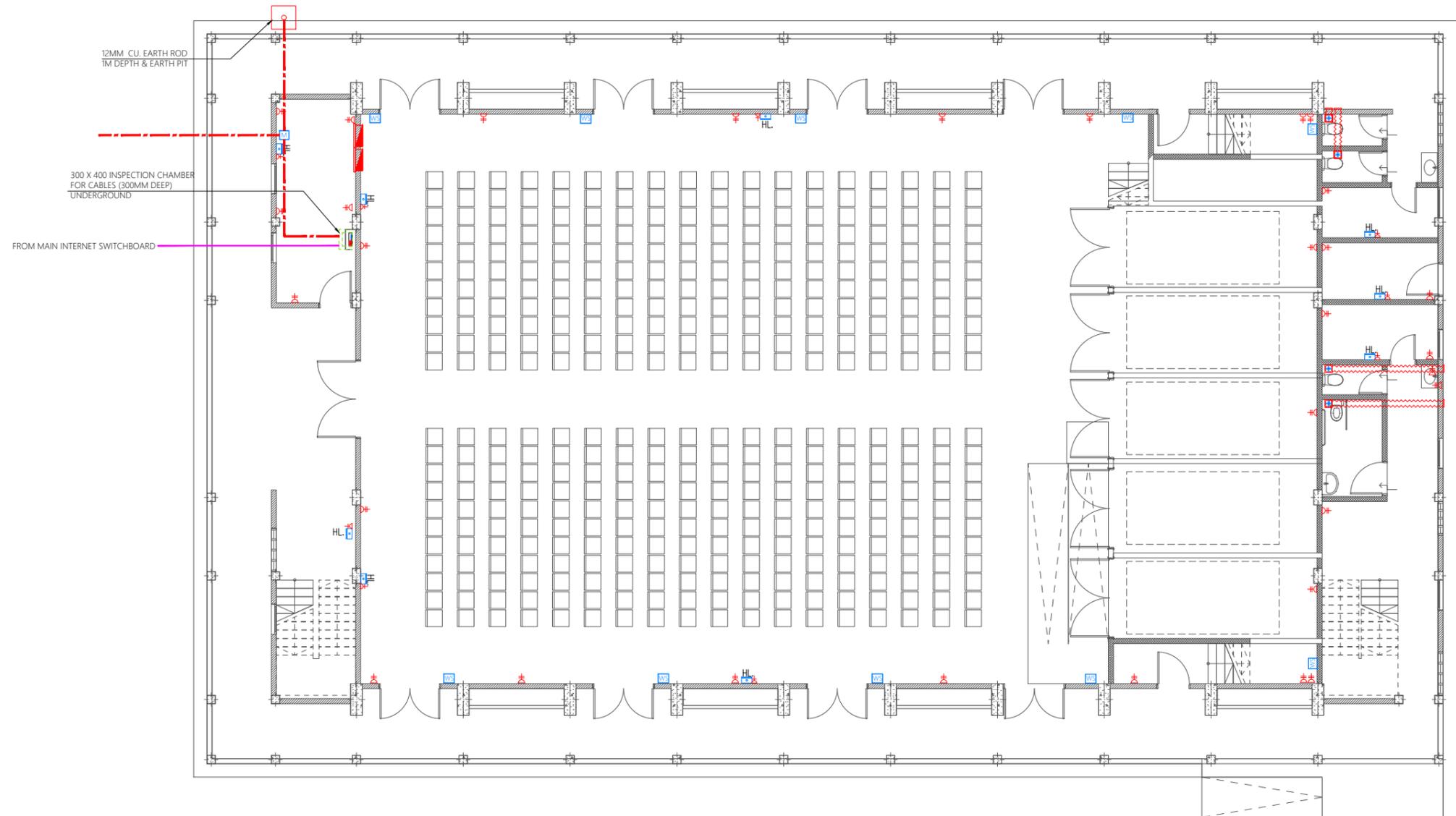
T: +960 333 3528 E: info@epoch.associates W: www.epoch.associates
A: 3rd Floor, G. Rosary West, Husnuheena Magu, Male' Republic of Maldives

Legend

-  13A Twin Socket
-  13A Power Socket
-  Distribution Board
-  HL. High Level
-  Computer Network Outlet
-  Emergency Light
-  WS Wall Mounted Speaker
-  M Electricity Meter
-  Public Address System
-  Computer Network Twin Outlet
-  HDMI Socket

-  Ceiling Mounted Exhaust Fan 90m3/hr
-  Main Incoming Cable For Power PVC Duct Below Ground
-  82Ø PVC Duct For Internet Cables Lead In 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



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**MULTIPURPOSE
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 Client:
Ministry Of Education

June 2021
 Services By: Mohamed Rassam
 Checked By:
 Drawn By: Hussain Rasheed



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 PAC-01

GROUND FLOOR POWER AND ACV LAYOUT

1:150

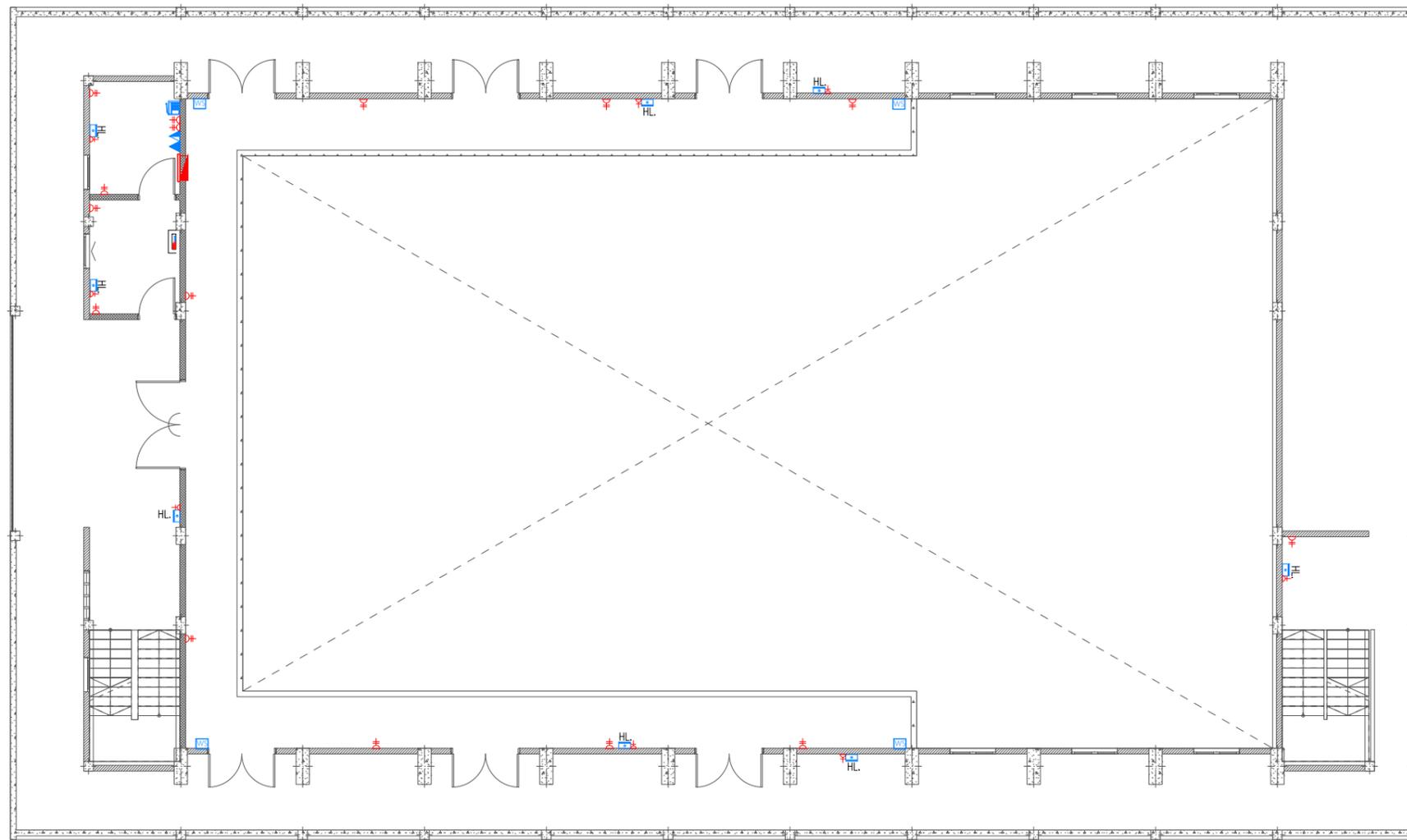
Legend

-  13A Twin Socket
-  13A Power Socket
-  Distribution Board
- HL. High Level
-  Computer Network Outlet
-  Emergency Light
-  Wall Mounted Speaker
-  Electricity Meter
-  Public Address System
-  Computer Network Twin Outlet
-  HDMI Socket

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FIRST FLOOR POWER AND ACV LAYOUT

1:150

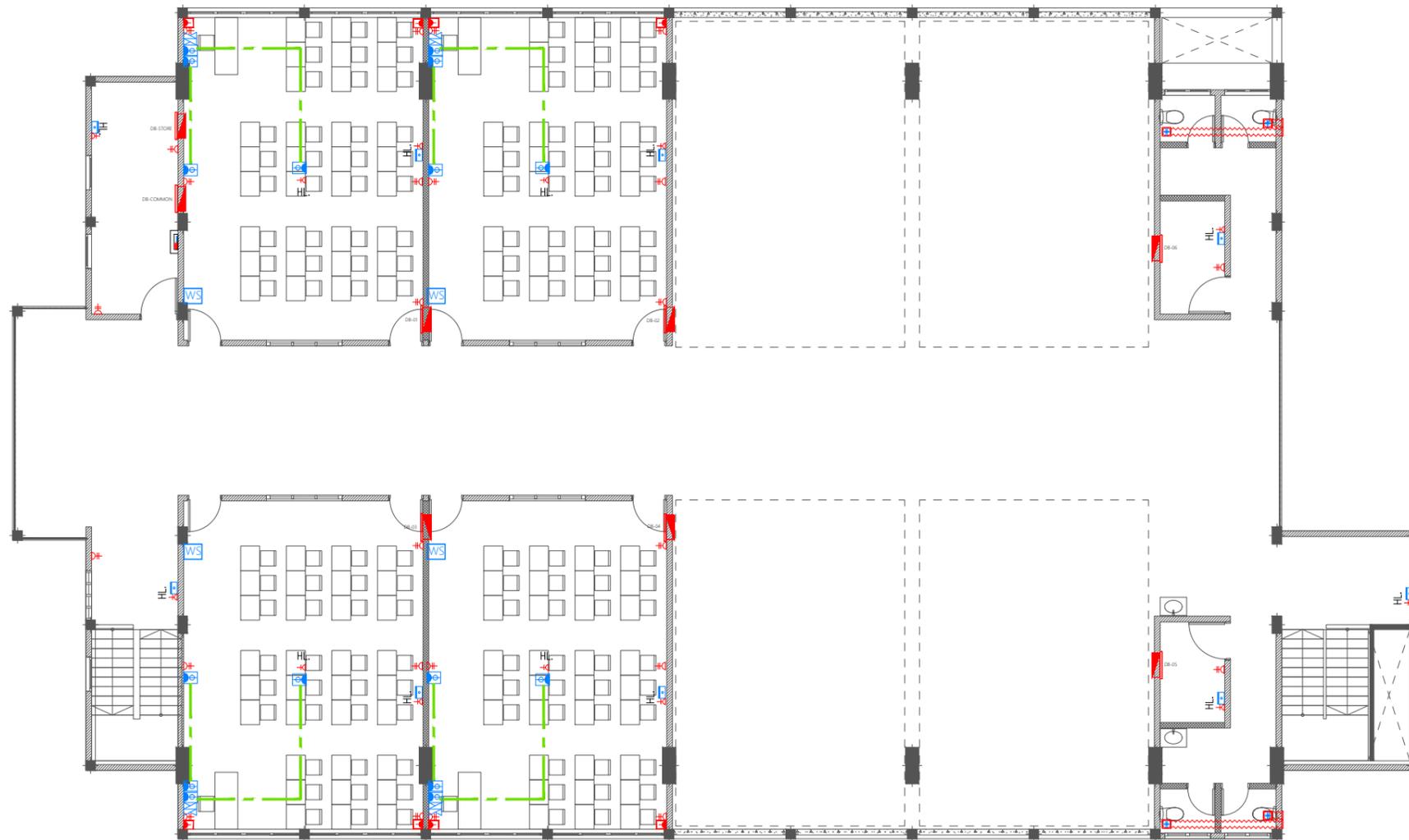
Legend

-  13A Twin Socket
-  13A Power Socket
-  15A Switched Socket @ H.L.
-  Distribution Board
-  HL. High Level
-  Computer Network Outlet
-  Emergency Light
-  WS Wall Mounted Speaker
-  M Electricity Meter
-  Public Address System
-  Computer Network Twin Outlet
-  HDMI Socket

-  Ceiling Mounted Exhaust Fan 90m3/hr
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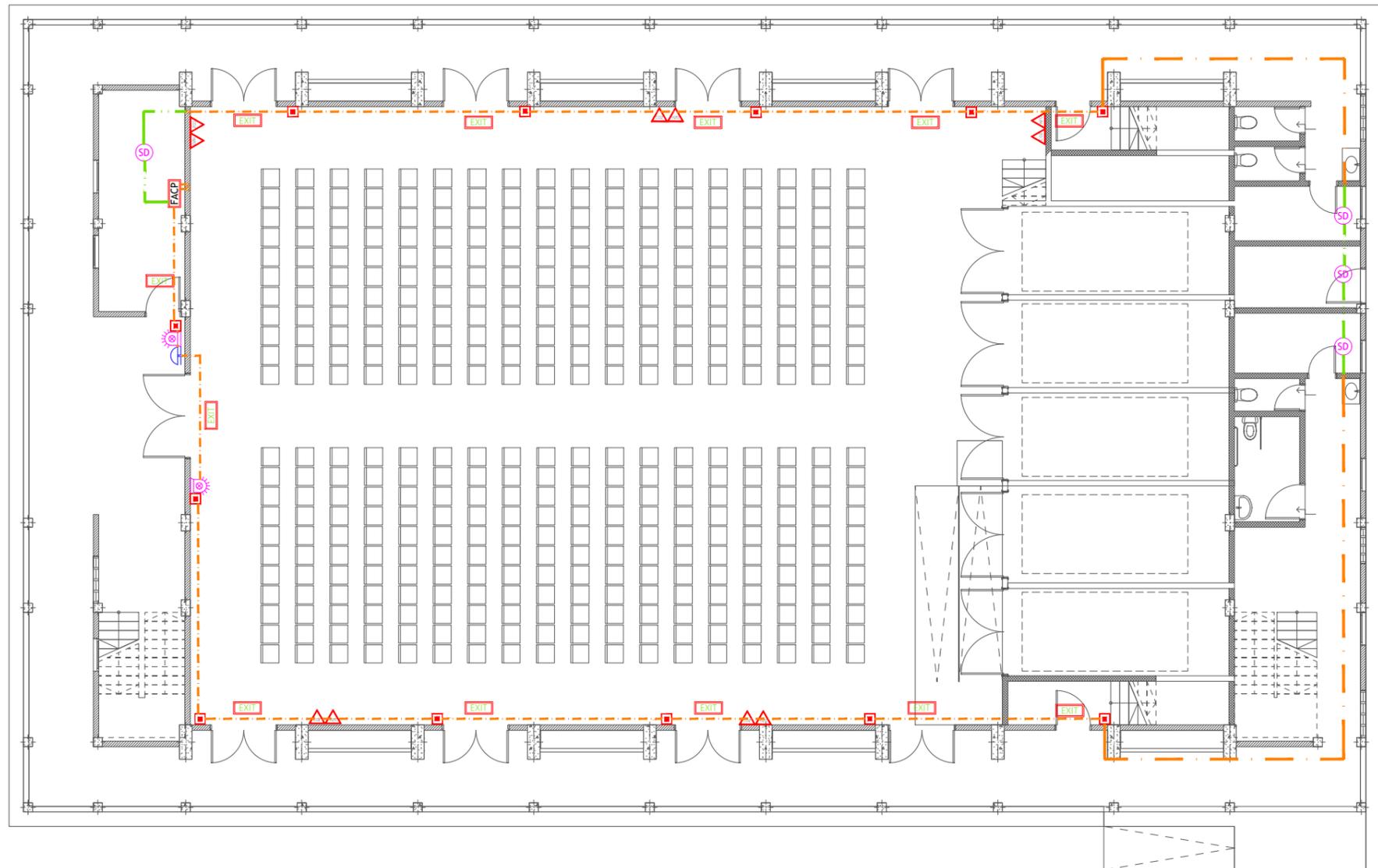
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SECOND FLOOR POWER AND ACV LAYOUT

1:150

Legend

-  CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  DCP Extinguisher (load: 6kg) In Polycarbonate Enclosure
-  H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point (At 1200mm from F.F.L.)
-  Smoke Detector
-  Beacon
-  Sounder Bell
-  2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits (Running Underground)
-  2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits (Above False Ceiling or Through Slab)
-  Fire Alarm Control Panel
-  Exit Sign



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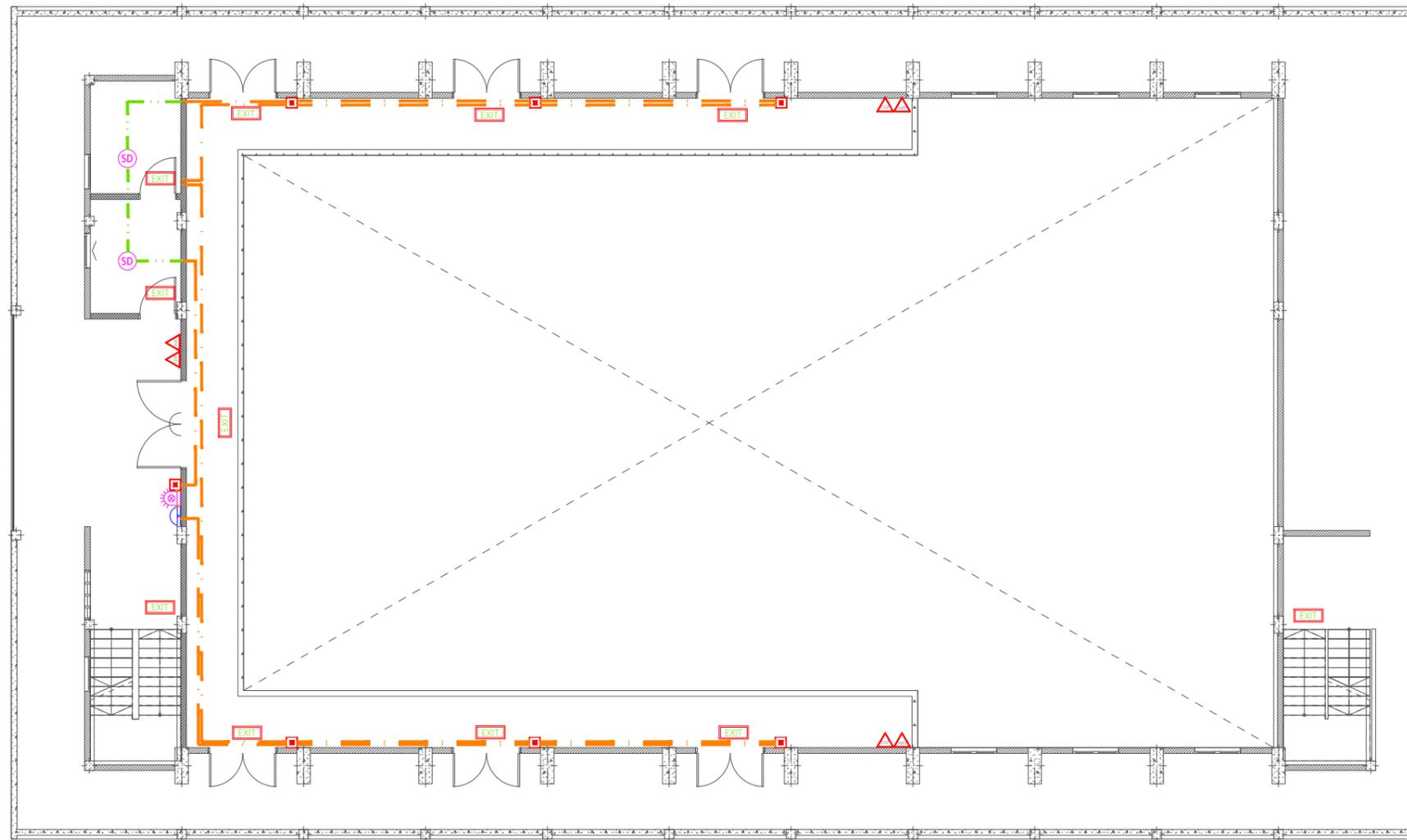
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GROUND FLOOR FDP LAYOUT

1:150

Legend

-  CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  DCP Extinguisher (load: 6kg) In Polycarbonate Enclosure
-  H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point (At 1200mm from F.F.L.)
-  Smoke Detector
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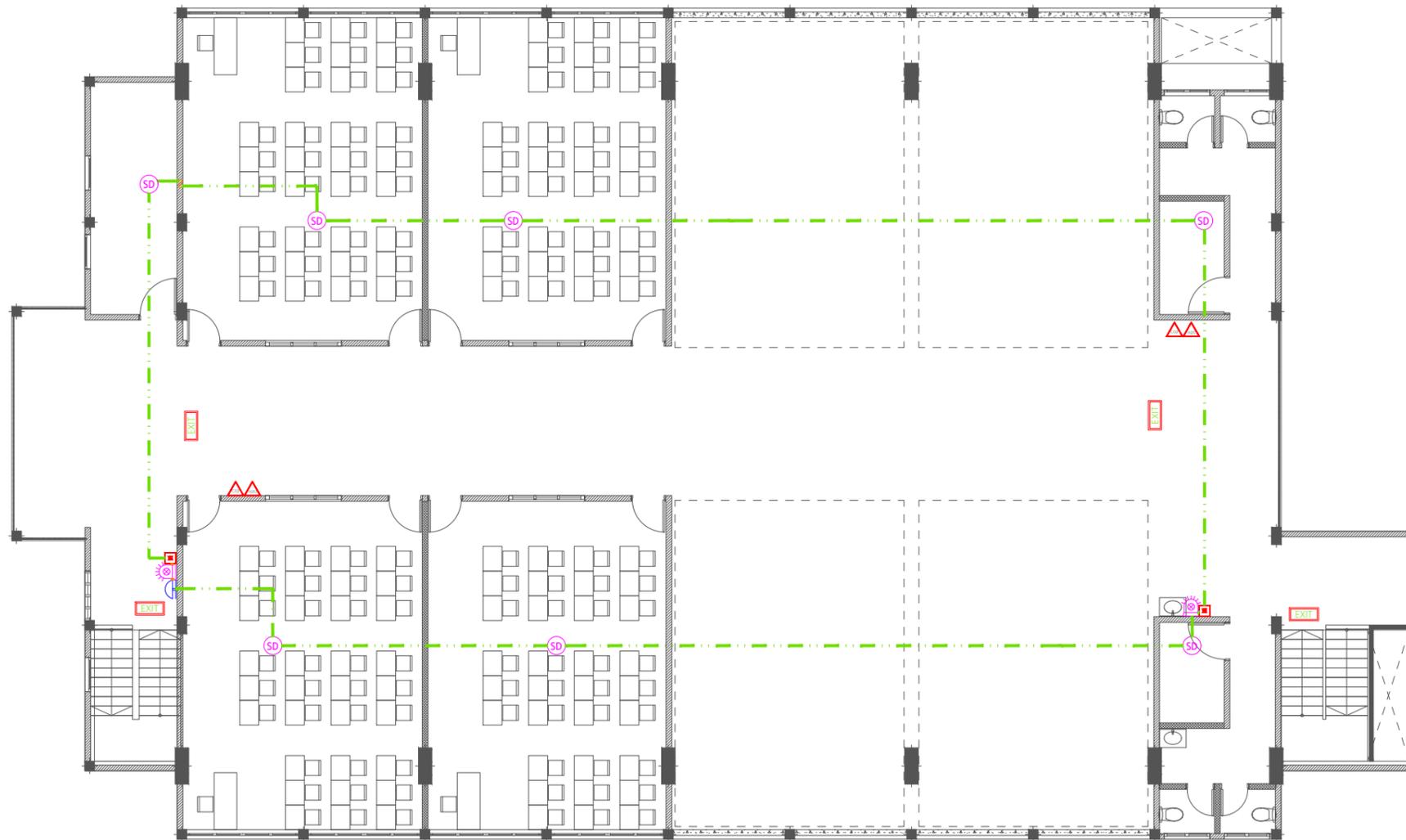
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FIRST FLOOR FDP LAYOUT
 1:150

Legend

-  CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  DCP Extinguisher (load: 6kg) In Polycarbonate Enclosure
-  H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point (At 1200mm from F.F.L.)
-  Smoke Detector
-  Beacon
-  Sounder Bell
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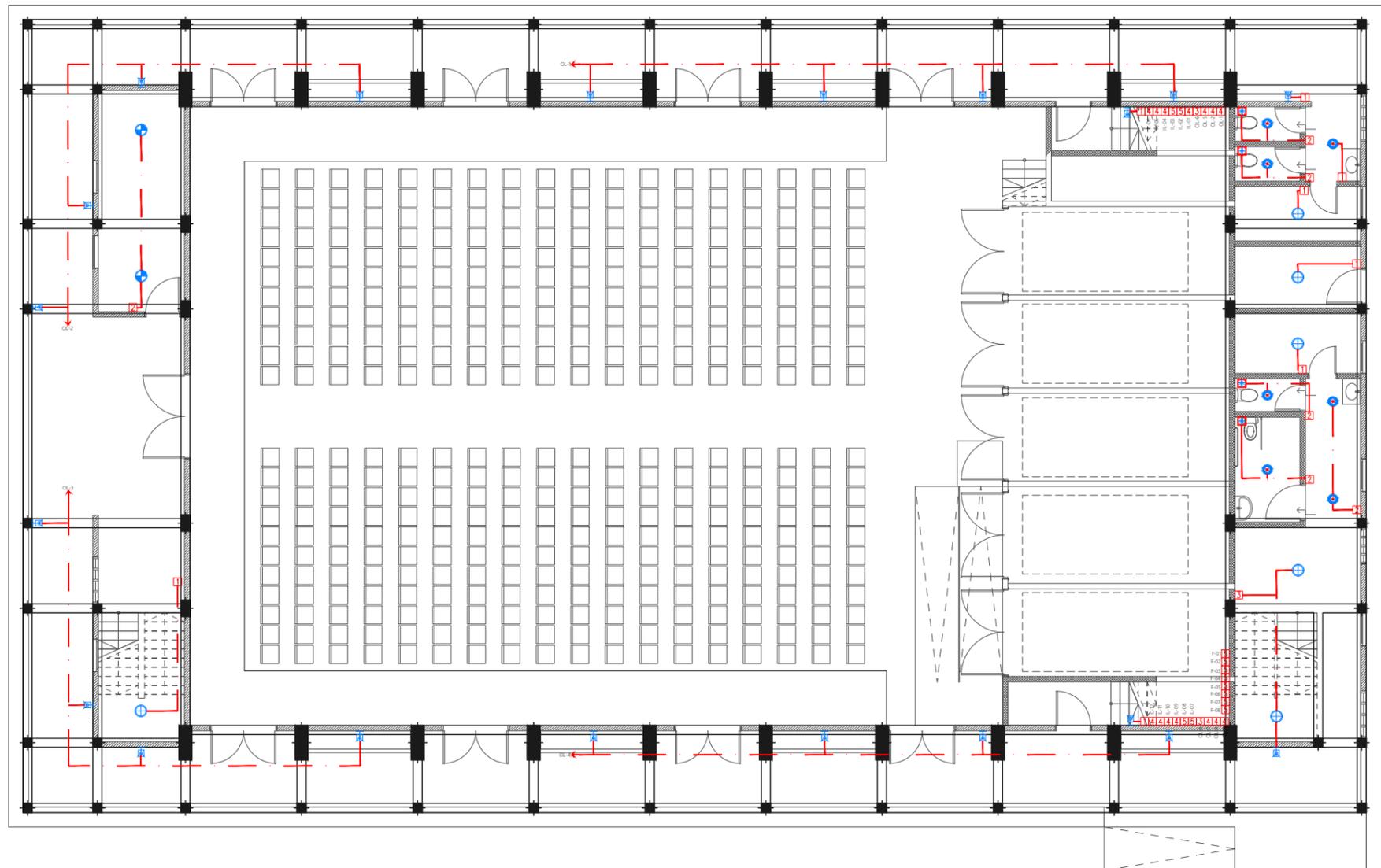
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SECOND FLOOR FDP LAYOUT

1:150

Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  Weather Proof Wall Light IP55 (12W)
-  3 Ft Led Tube Light
-  2 x 50W PLL Tube Light
-  Light and Fan Switch (1 Gang - 5 Gang)
-  42" To 48" Ceiling Fan
-  Ceiling Mounted Exhaust Fan 90m3/hr



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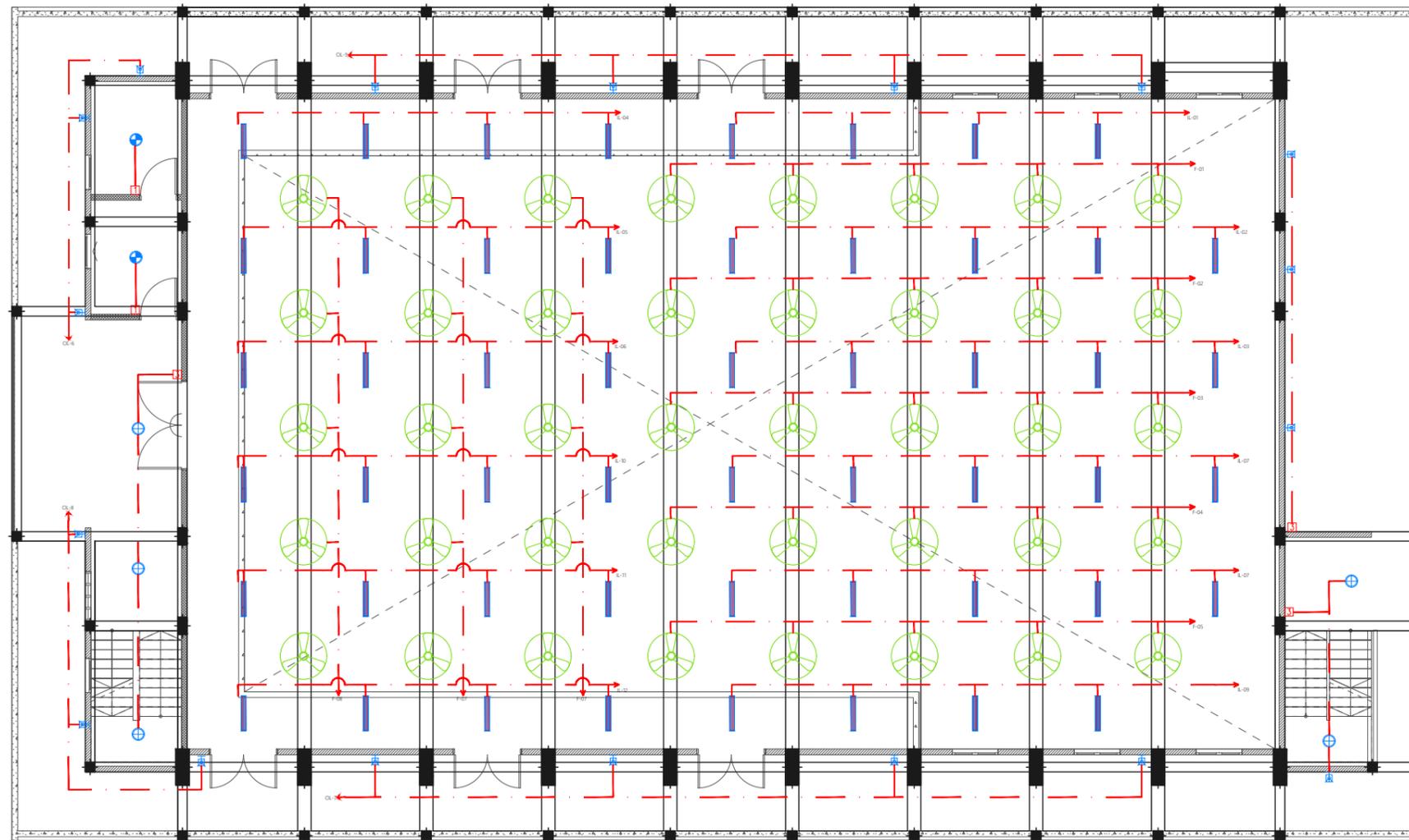
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 EL -01

Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  Weather Proof Wall Light IP55 (12W)
-  3 Ft Led Tube Light
-  2 x 50W PLL Tube Light
-  Light and Fan Switch (1 Gang - 5 Gang)
-  42" To 48" Ceiling Fan
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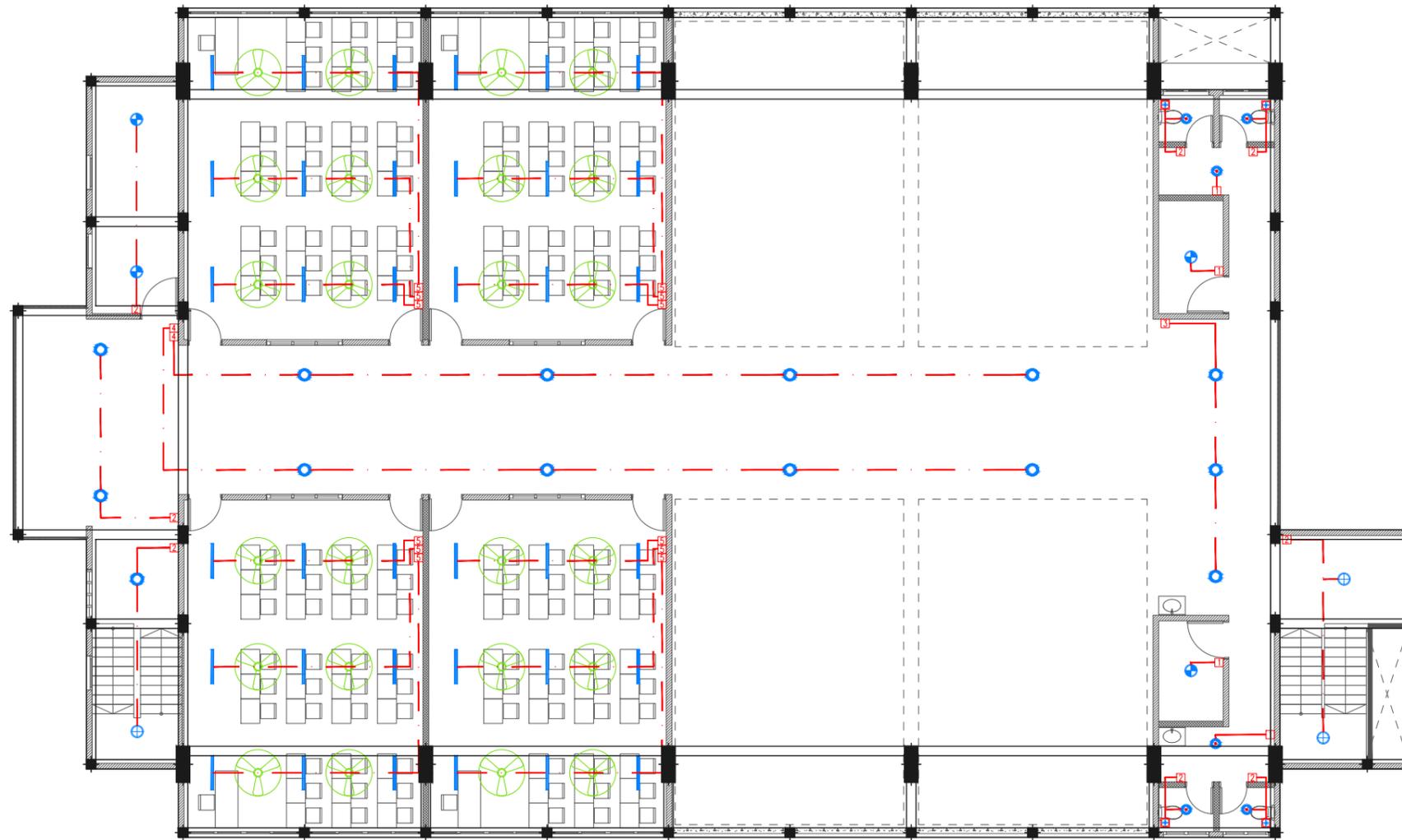
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 EL -02

Legend

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-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  Weather Proof Wall Light IP55 (12W)
-  3 Ft Led Tube Light
-  2 x 50W PLL Tube Light
-  Light and Fan Switch (1 Gang - 5 Gang)
-  42" To 48" Ceiling Fan
-  Ceiling Mounted Exhaust Fan 90m3/hr



SECOND FLOOR LIGHTING LAYOUT
1:150

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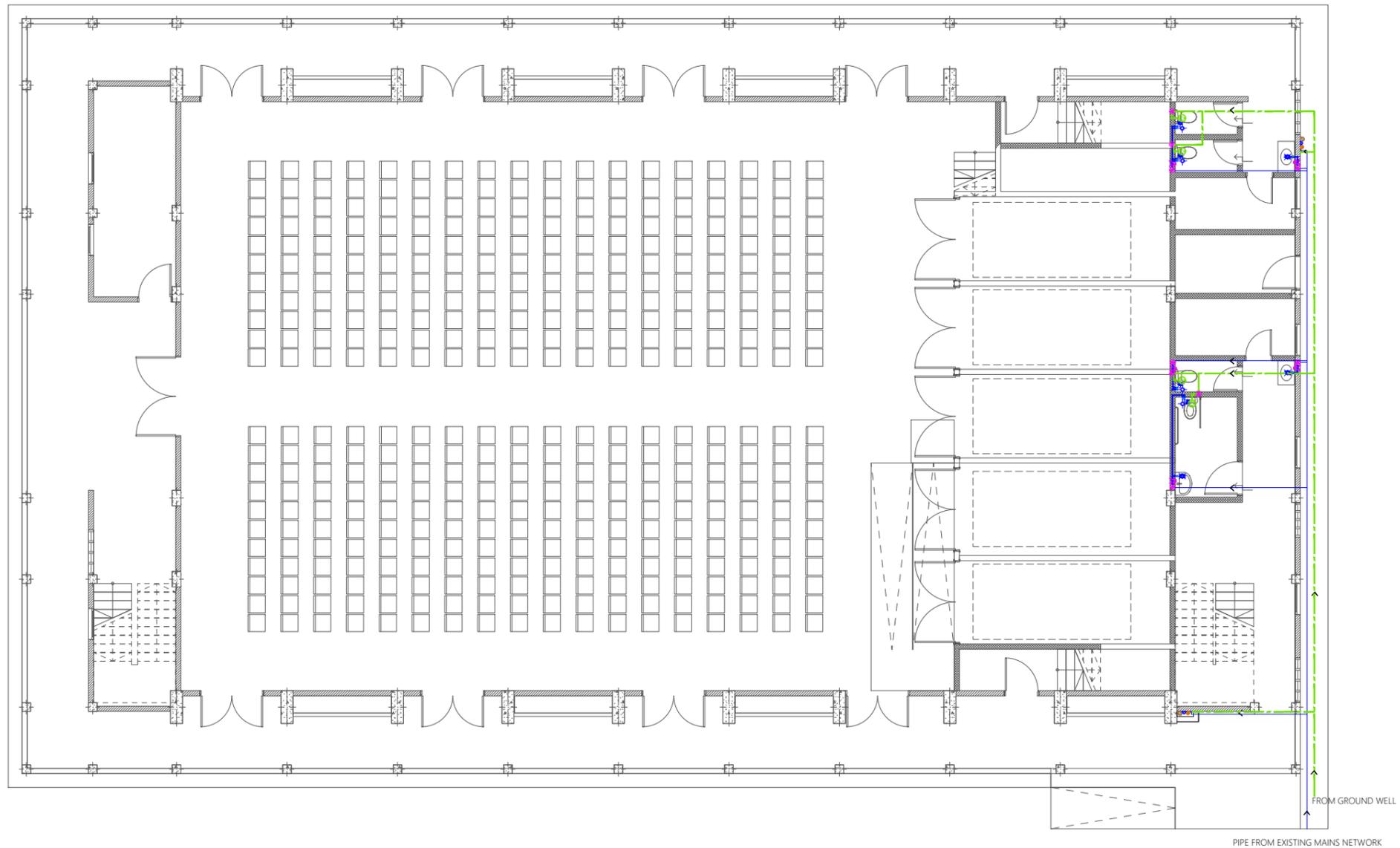
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Legend

-  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

Notes: -

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



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GROUND FLOOR PLUMBING LAYOUT

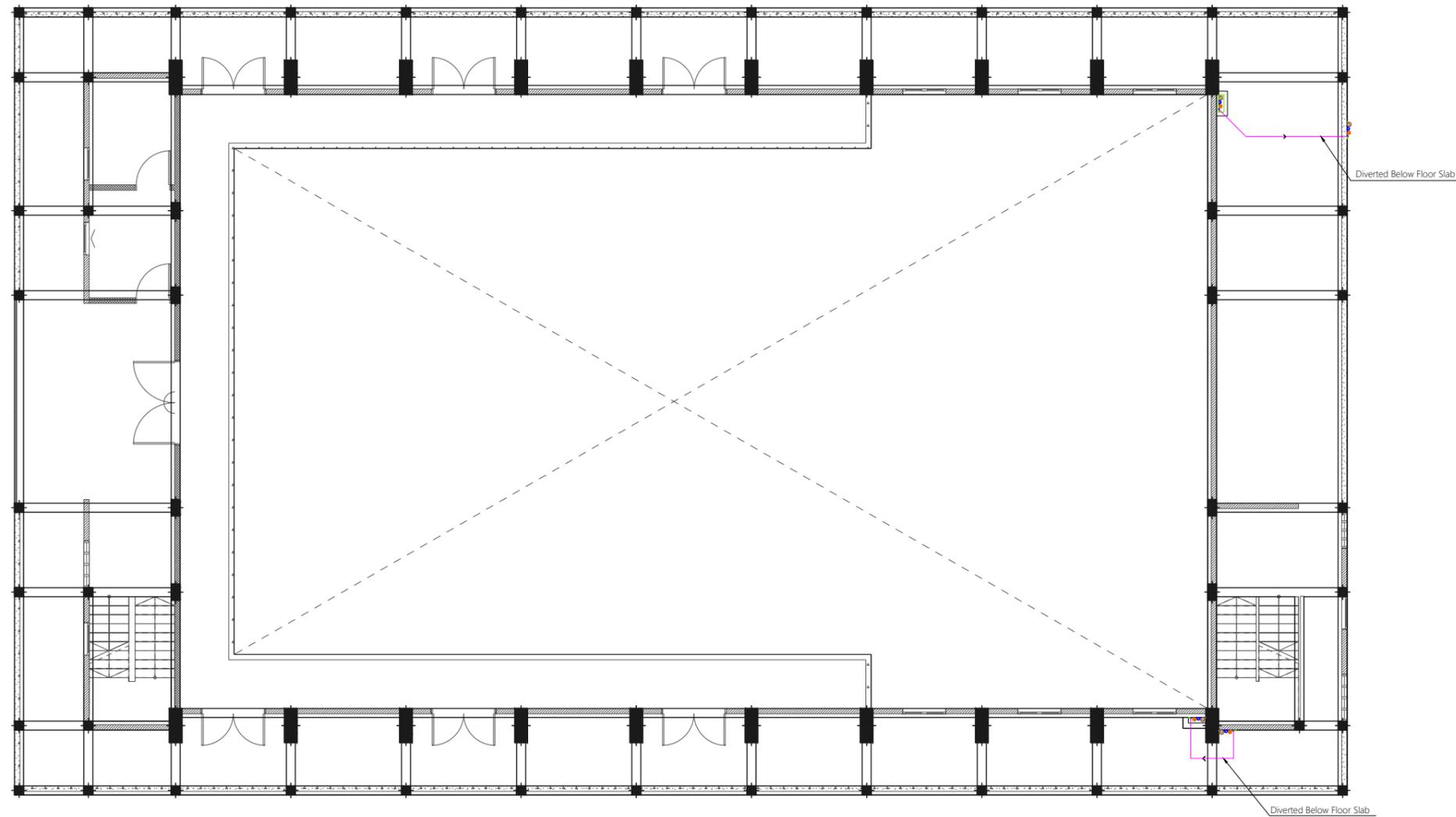
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Legend

-  16Ø Cold Water Supply To Basin Faucet
-  16Ø Cold Water Supply To Bidet Shower
-  16Ø Cold Water Supply To Cistern
-  Gate Valve
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-  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
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FIRST FLOOR PLUMBING LAYOUT

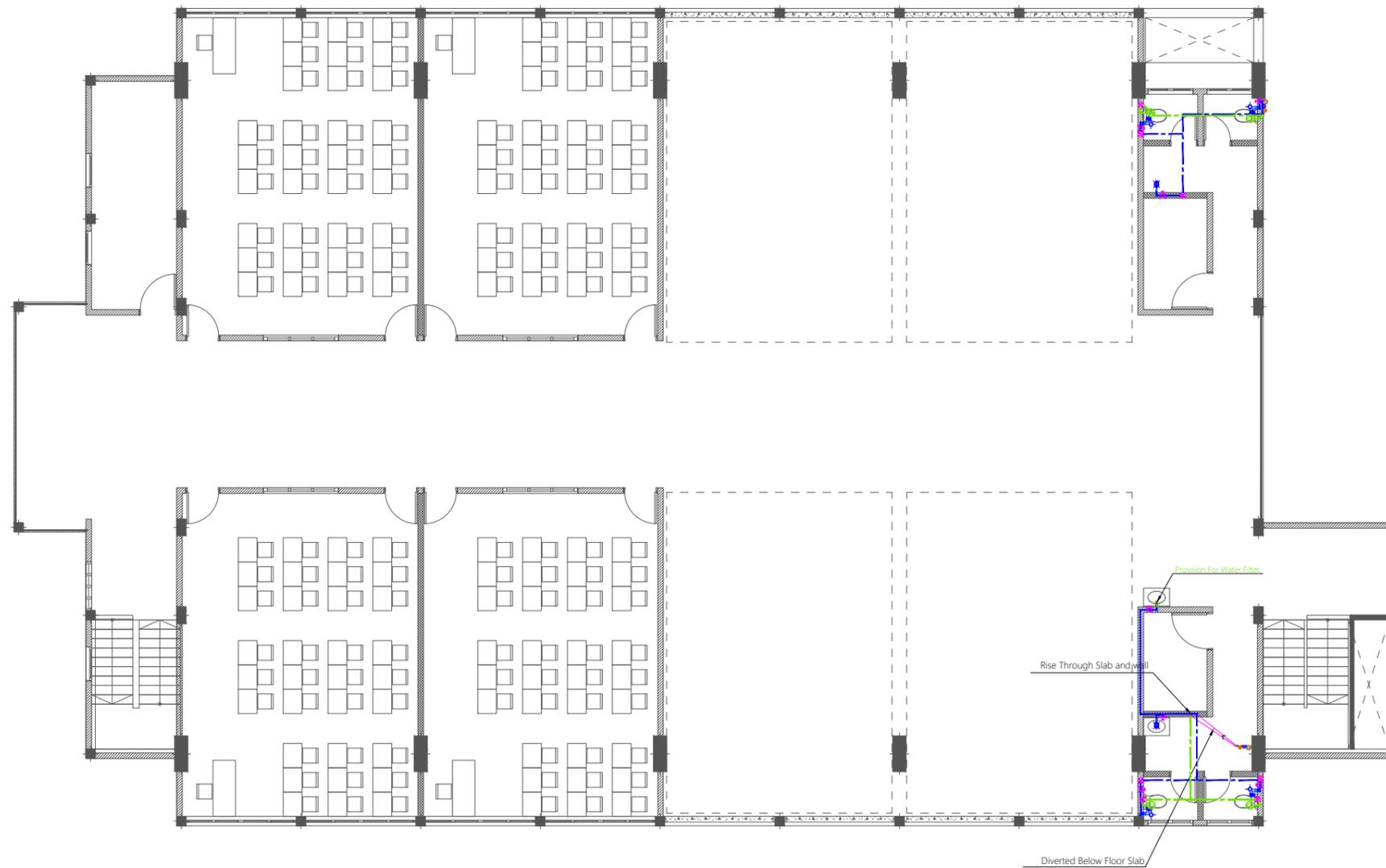
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Legend

-  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
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SECOND FLOOR PLUMBING LAYOUT

1:150

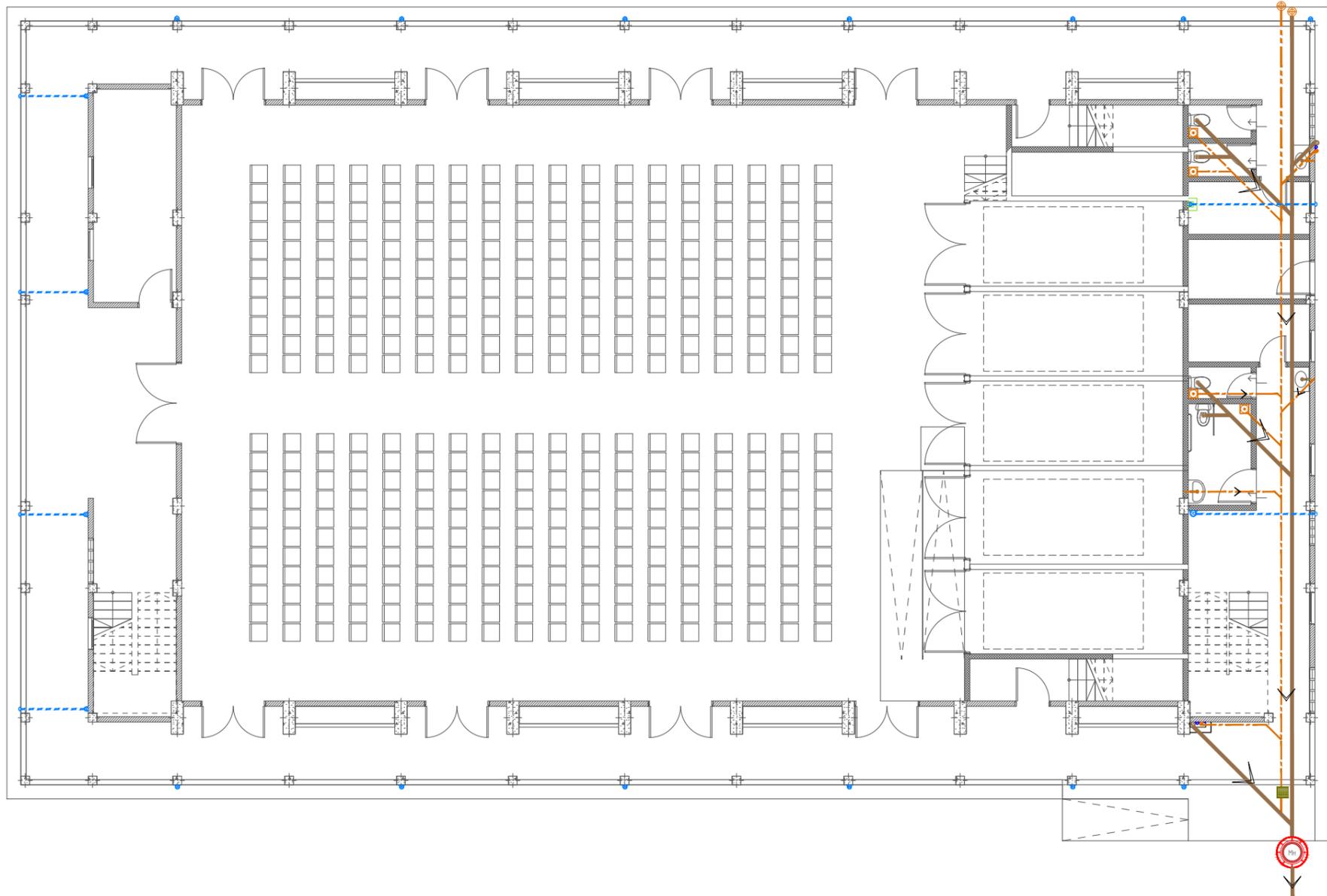
Legend

-  Floor Drain
-  Floor Gully
-  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)

-  Bottle Trap
-  Manhole
-  Gully Trap

Notes: -

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



CONNECTED TO EXISTING MAIN SEWER NETWORK

GROUND FLOOR DRAINAGE LAYOUT

1:150

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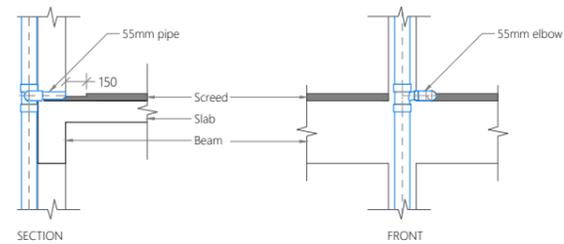
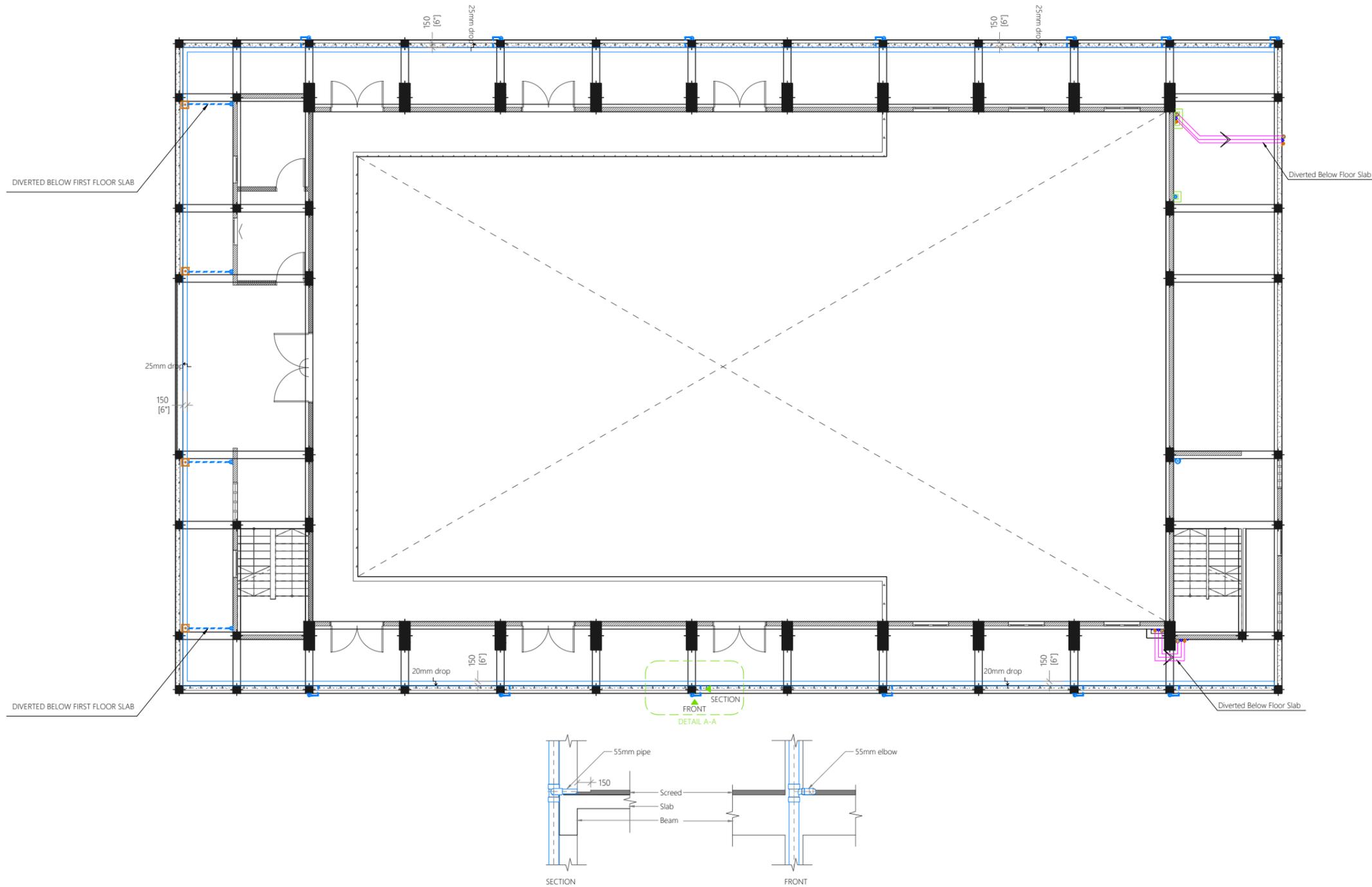
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Legend

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-  Floor Gully
-  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)
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-  Bottle Trap



FIRST FLOOR DRAINAGE LAYOUT
1:150

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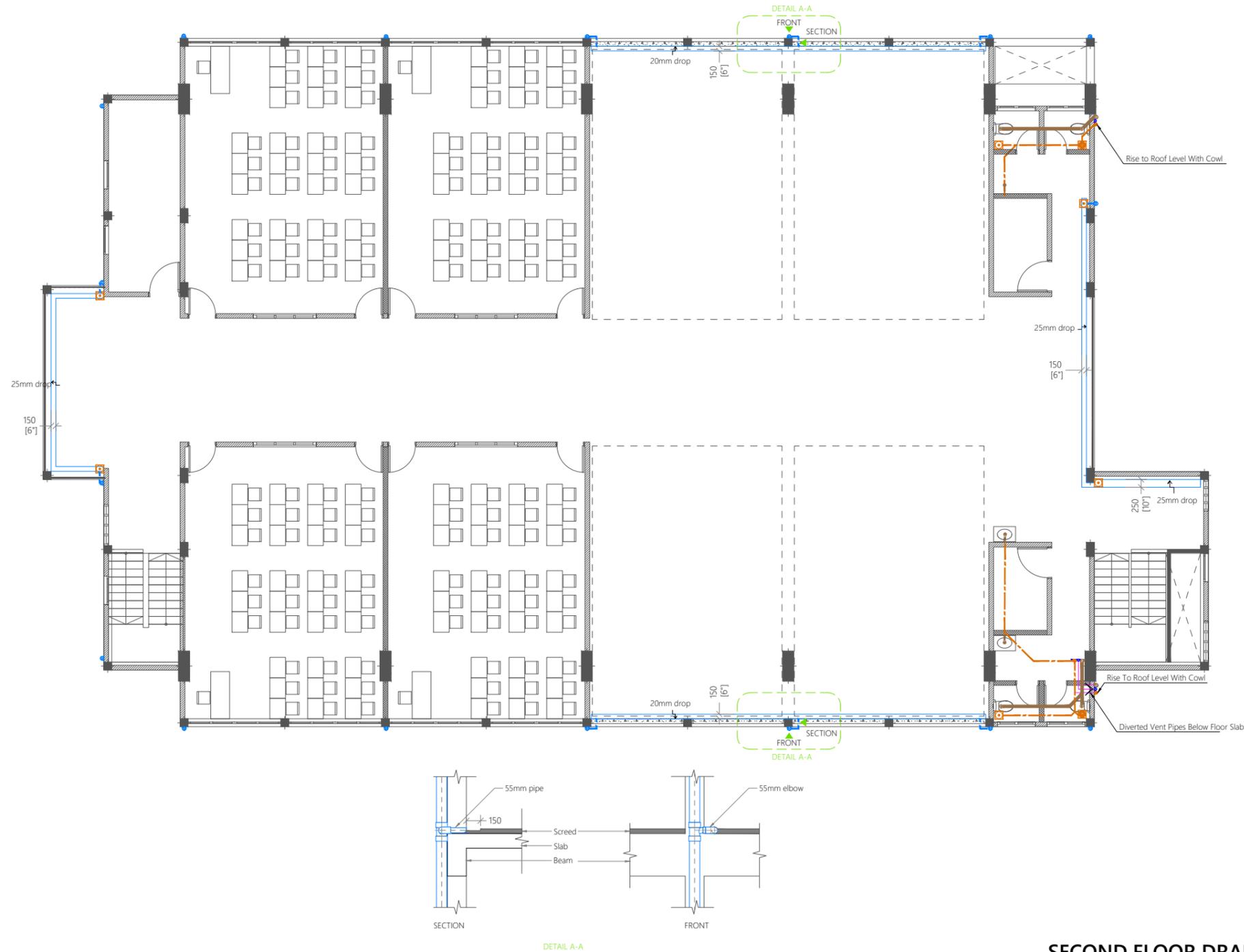
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Legend

-  Floor Drain
-  Floor Gully
-  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)
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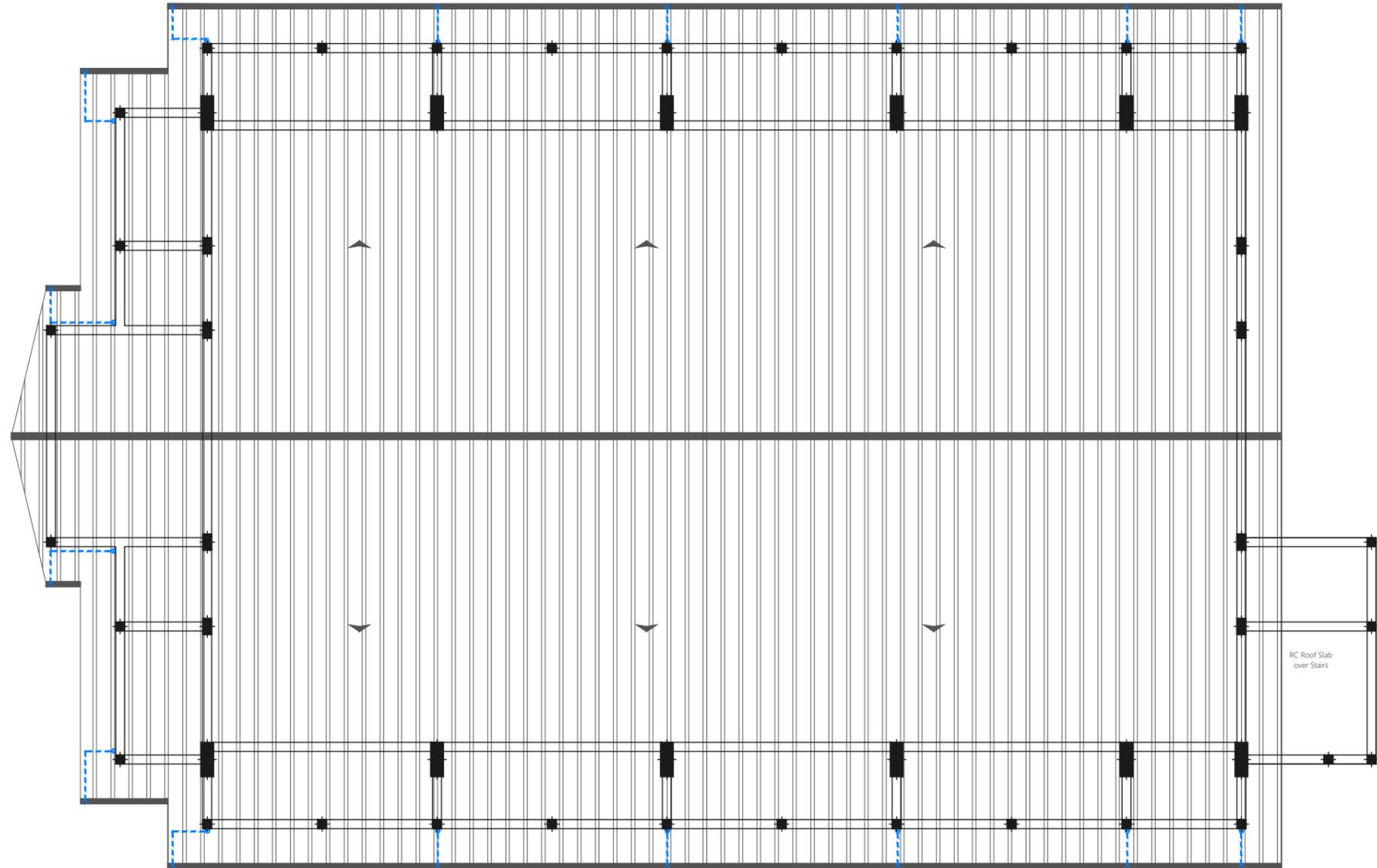
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SECOND FLOOR DRAINAGE LAYOUT

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Legend

--- 110Ø Rain Water Pipes (uPVC Pipe)



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ROOF DRAINAGE LAYOUT

1:150