



Ha. Kelaa 12 Classroom Sen Room and Office Building

BUILDING SERVICES DRAWINGS
Ministry of Higher Education

Legend

13A Twin Socket

13A Power Socket

15A Switched Socket @ H.L. (Provision for AC)

13A Twin Socket In Floor Mount Pop-up Box

Distribution Board

HL

High Level

Emergency Light

Wall Mounted Speaker

Electricity Meter

Internet Switchboard

Public Address System

Computer Network Twin Outlet

Computer Network Twin Outlet In Floor Mount Pop-up Box

Telephone Extension

Telephone Extension In Floor Mount Pop-up Box

Telephone Outlet

Computer Network Outlet

HDMI Socket

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

#	REVISION	BY	APP	DATE

Project :
Ha. Kelaa 12 Classroom Sen
Room and Office Building
Client :
Ministry of Education, Maldives

Prepared by

EPOCH

T: +960 333 3528, E: info@epoch.associates,

W: www.epoch.associates, A:G.Rosary West, 3rd

Floor, Husnuheena Magu, Male', Maldives

DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
DRAWN: Hussain Rasheed	APPROVED: Mohamed Rassam

Page Title
Ground Floor Plan

Scale : A3 1:150

Doc No : -

Date : Sunday, April 02, 2023

Rev No : | **Pg :** PAC-01

GROUND FLOOR POWER AND ACV LAYOUT

1:150

Legend

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Page Title
First Floor Plan

Scale : A3 1:150

Doc No : -

Date :Sunday, April 02, 2023

Rev No : | **Pg :** PAC-02

FIRST FLOOR POWER AND ACV LAYOUT

1:150

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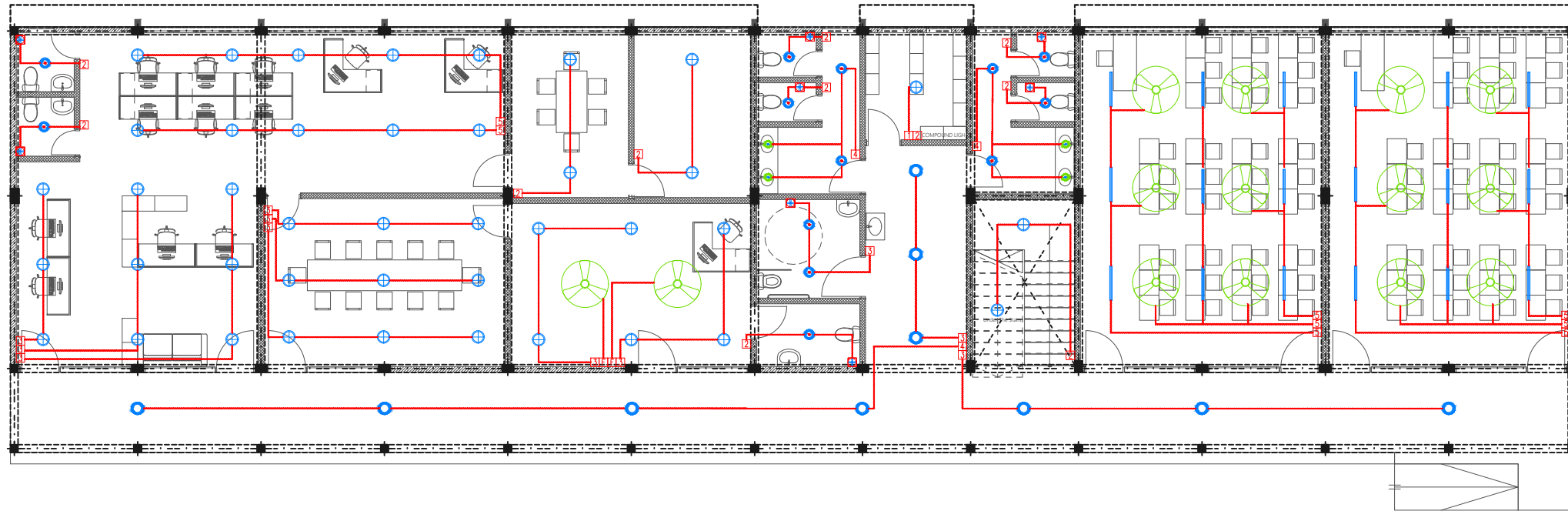
Page Title
Second Floor Plan
Scale : A3 1:150
Doc No : -
Date : Sunday, April 02, 2023
Rev No : | **Pg :** PAC-03

SECOND FLOOR POWER AND ACV LAYOUT

1:150

Legend

- Ceiling Light (18W)
- Ceiling Light (12W)
- Recessed Ceiling Light (12W)
- Ceiling Down Light (18W) - Weather Proof
- 3 Ft Led Tube Light
- 100W, HPS, Wall Mounted Light,JP 65
- Ceiling Recessed Spot Light (3W)
- Light Switch (1 Gang - 5 Gang)
- Ceiling Fan Switch With Controller
- 42" To 48" Ceiling Fan
- Ceiling Mounted Exhaust Fan 90m3/hr



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W: www.epoch.associates, A:G.Rosary West, 3rd
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DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
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Ground Floor Plan

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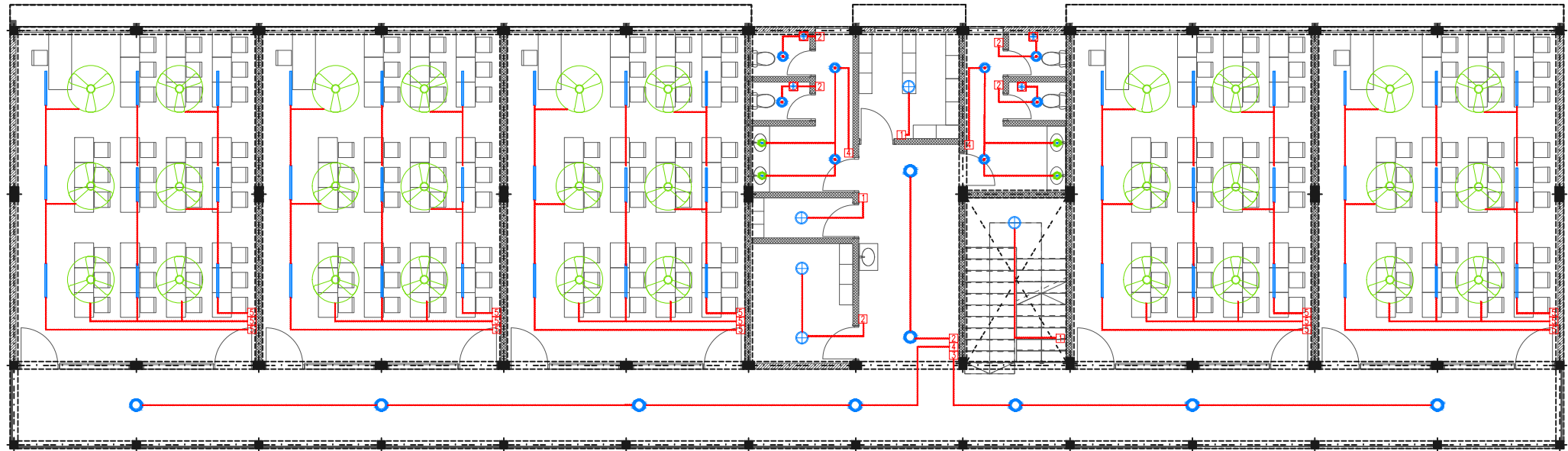
Rev No : | **Pg :** FDP-01

GROUND FLOOR LIGHTING LAYOUT

1:150

Legend

- Ceiling Light (18W)
- Ceiling Light (12W)
- Recessed Ceiling Light (12W)
- Ceiling Down Light (18W) - Weather Proof
- 3 Ft Led Tube Light
- 100W, HPS, Wall Mounted Light,JP 65
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First Floor Plan

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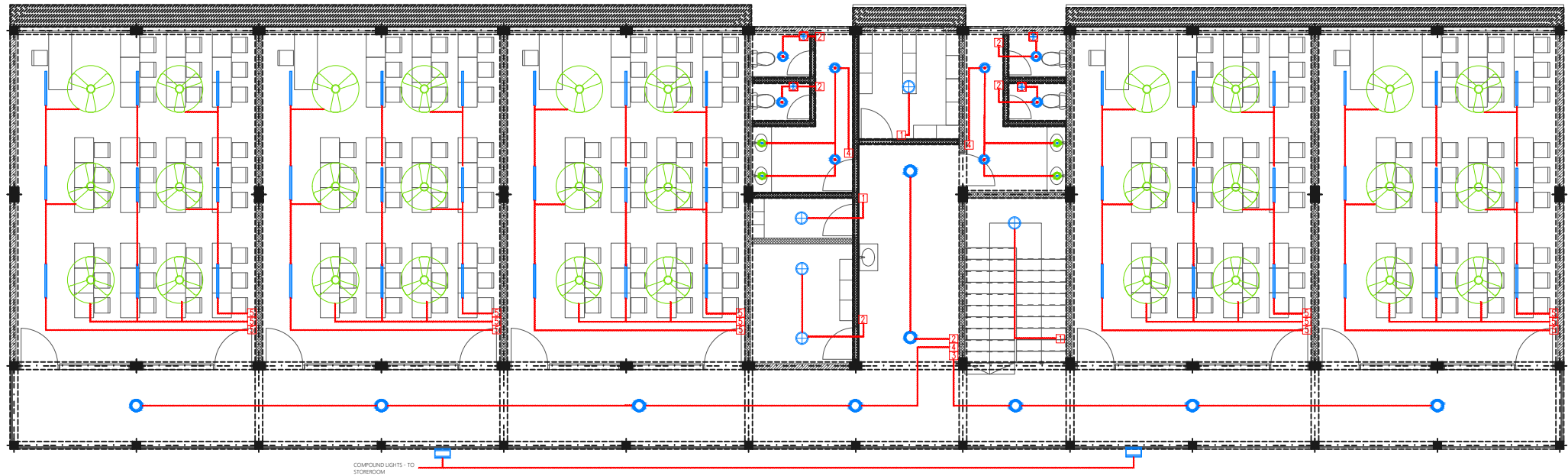
Rev No : | **Pg :** FDP-02

FIRST FLOOR LIGHTING LAYOUT

1:150

Legend

- Ceiling Light (18W)
- Ceiling Light (12W)
- Recessed Ceiling Light (12W)
- Ceiling Down Light (18W) - Weather Proof
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Second Floor Plan

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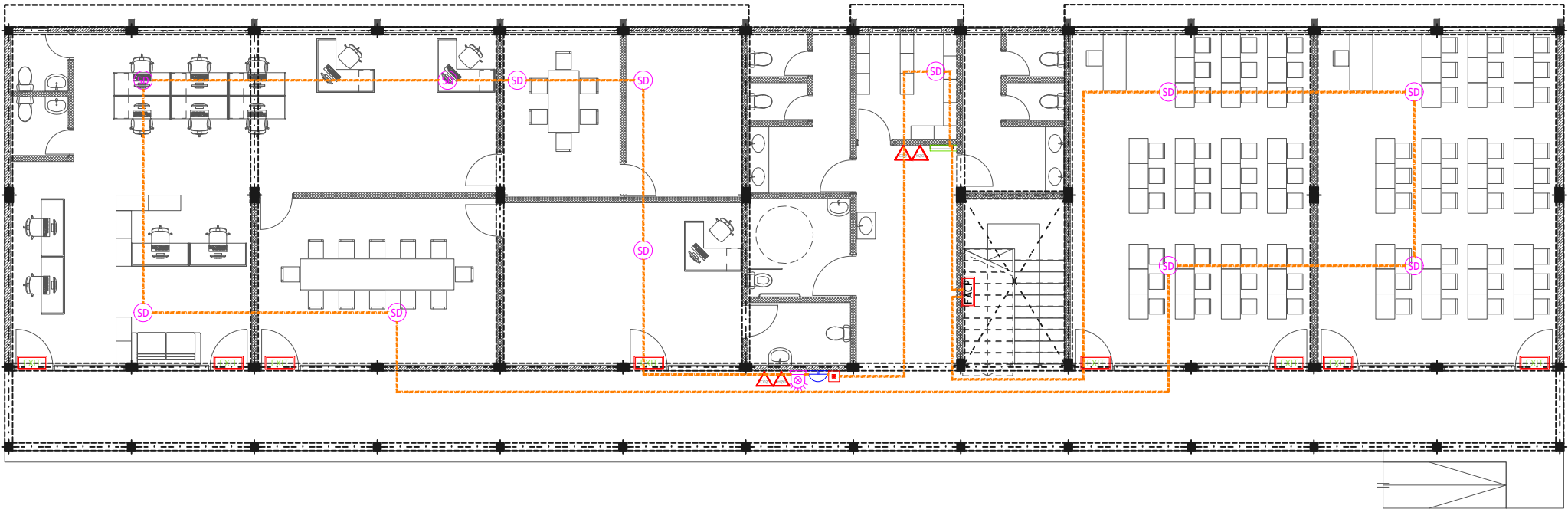
Rev No : | **Pg :** FDP-03

SECOND FLOOR LIGHTING LAYOUT

1:150

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



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Ground Floor Plan

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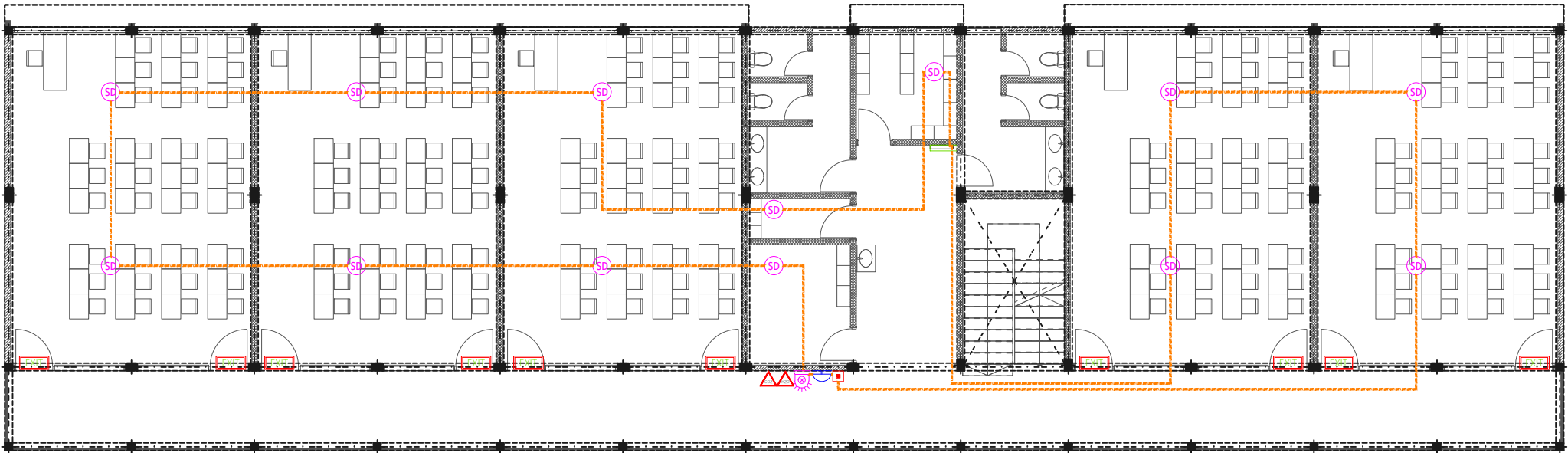
Rev No : | **Pg :** EL-01

GROUND FLOOR FIRE DETECTION AND PROTECTION LAYOUT

1:150

Legend

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



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Prepared by



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

DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
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First Floor Plan

Scale : A3 1:150

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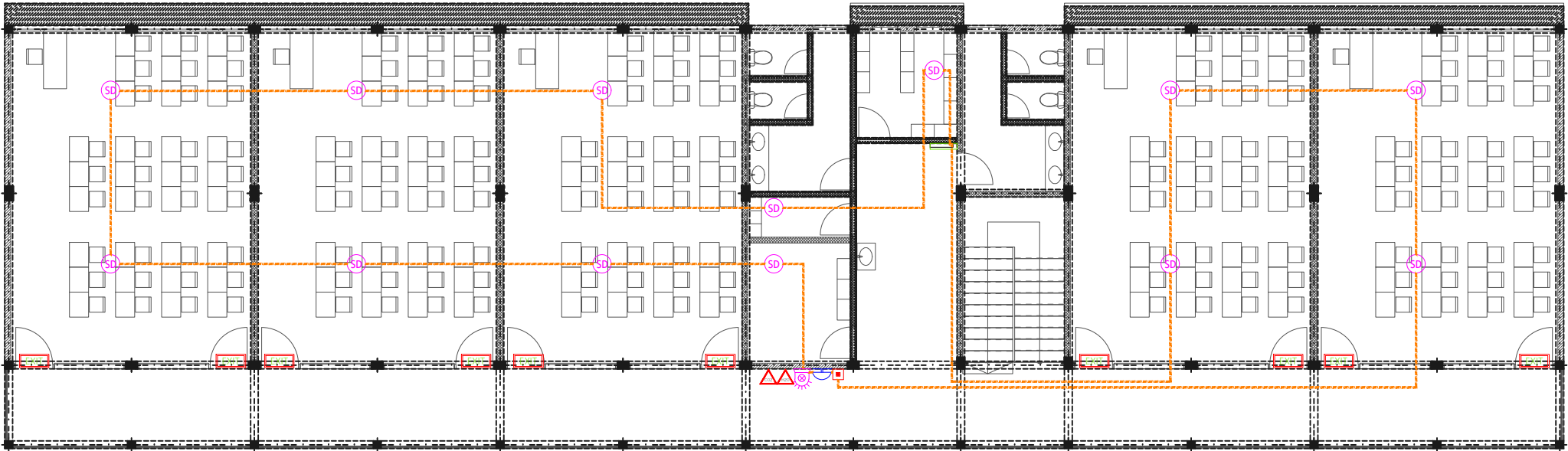
Rev No : | **Pg :** EL-02

FIRST FLOOR FIRE DETECTION AND PROTECTION LAYOUT

1:150

Legend

-  CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point
-  Smoke Detector
-  Heat Detector
-  Beacon
-  Sunder Bell
-  2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits
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Second Floor Plan

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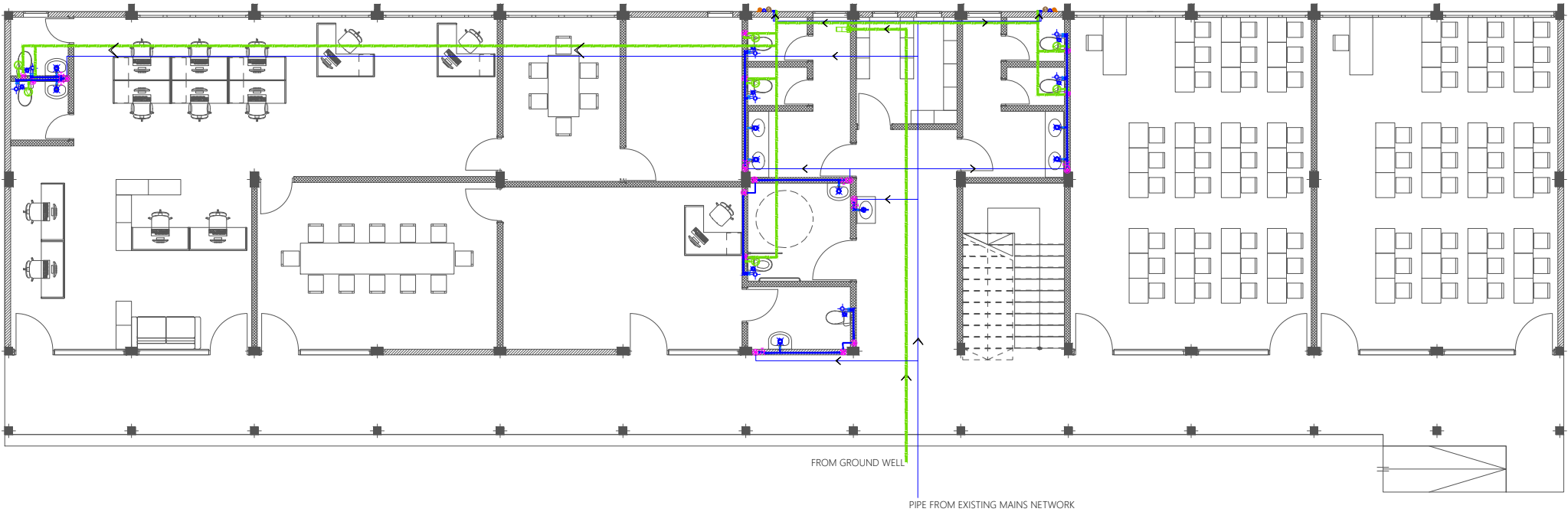
SECOND FLOOR FIRE DETECTION AND PROTECTION LAYOUT

1:150

- Legend
- 160 Cold Water Supply To Basin Faucet
 - 160 Cold Water Supply To Bidet Shower
 - 160 Cold Water Supply To Cistern
 - 160 Cold Water Supply To Water Filter Tap
 - Gate Valve
 - Rise In Wall
 - Drop In Wall
 - Angle Valve with cap for Ground Water Supply
 - 250 Cold Water Supply Pipes Running Underground
 - 200 Cold Water Supply Pipes Running In Wall
 - 200 Cold Water Supply Pipes Running Above False Ceiling
 - 200 Cold Water Supply Pipes Running Underground
 - 250 Ground Water Supply Pipes
 - Well Water Pump

Notes: -

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



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Page Title
Ground Floor Plan

Scale : A3 1:150


Doc No : -


Date : Sunday, April 02, 2023


Rev No : | **Pg :** PL-01


GROUND FLOOR PLUMBING LAYOUT


1:150


- Legend
- 


160 Cold Water Supply To Basin Faucet
- 


160 Cold Water Supply To Bidet Shower
- 


160 Cold Water Supply To Cistern
- 


160 Cold Water Supply To Water Filter Tap
- 


Gate Valve
- 


Rise In Wall
- 

Drop In Wall
- 

Angle Valve with cap for Ground Water Supply
- 

250 Cold Water Supply Pipes Running Underground
- 

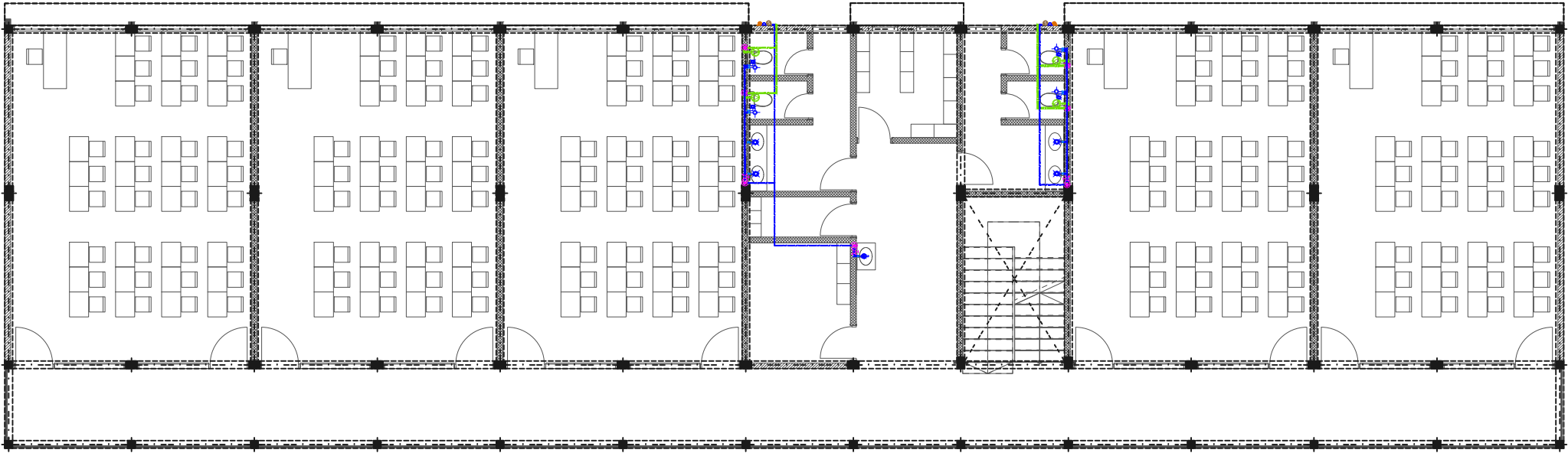
200 Cold Water Supply Pipes Running In Wall
- 

200 Cold Water Supply Pipes Running Above False Ceiling
- 

250 Ground Water Supply Pipes

Notes: -

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



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DESIGNER: Hussain Rasheed	CHECKED: Mohamed Rassam
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Page Title
First Floor Plan

Scale : A3 1:150


Doc No : -


Date :Sunday, April 02, 2023


Rev No : | **Pg :** PL-02


FIRST FLOOR PLUMBING LAYOUT


1:150


- Legend
- 


160 Cold Water Supply To Basin Faucet
- 


160 Cold Water Supply To Bidet Shower
- 


160 Cold Water Supply To Cistern
- 


160 Cold Water Supply To Water Filter Tap
- 


Gate Valve
- 


Rise In Wall
- 

Drop In Wall
- 

Angle Valve with cap for Ground Water Supply
- 

250 Cold Water Supply Pipes Running Underground
- 

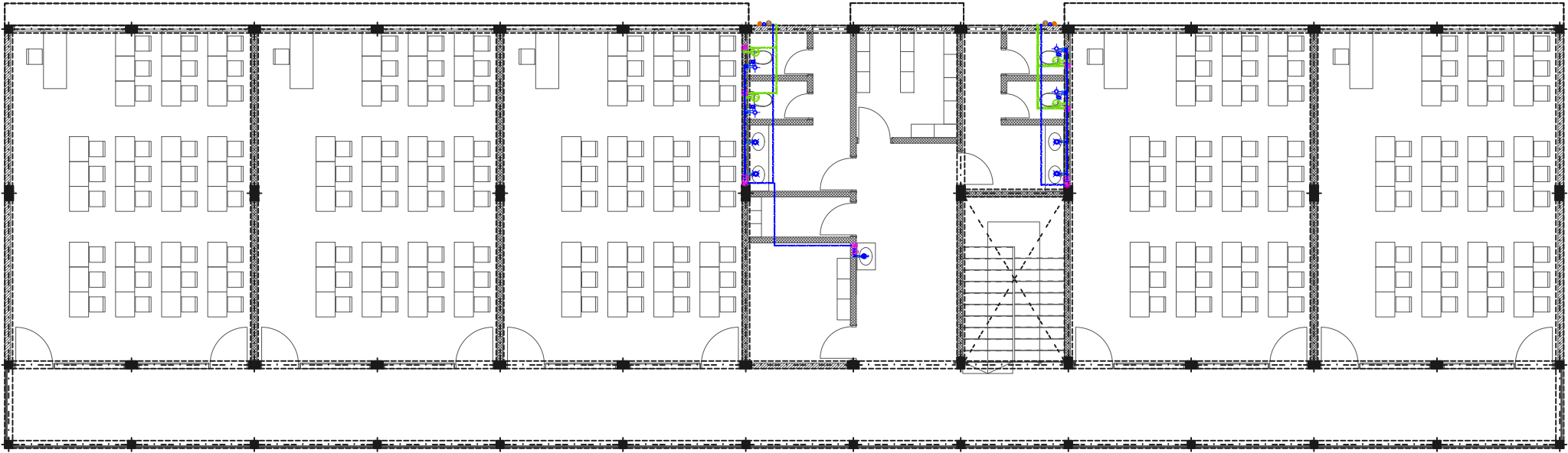
200 Cold Water Supply Pipes Running In Wall
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200 Cold Water Supply Pipes Running Above False Ceiling
- 

250 Ground Water Supply Pipes

Notes: -

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- All Hot Water Pipes Should Be PPR



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Page Title

Second Floor Plan

Scale : A3 1:150

Doc No : -

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Pg : PL-03

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)

110Ø Rainwater Outlet Perforated Cowl

Gully Trap

Manhole

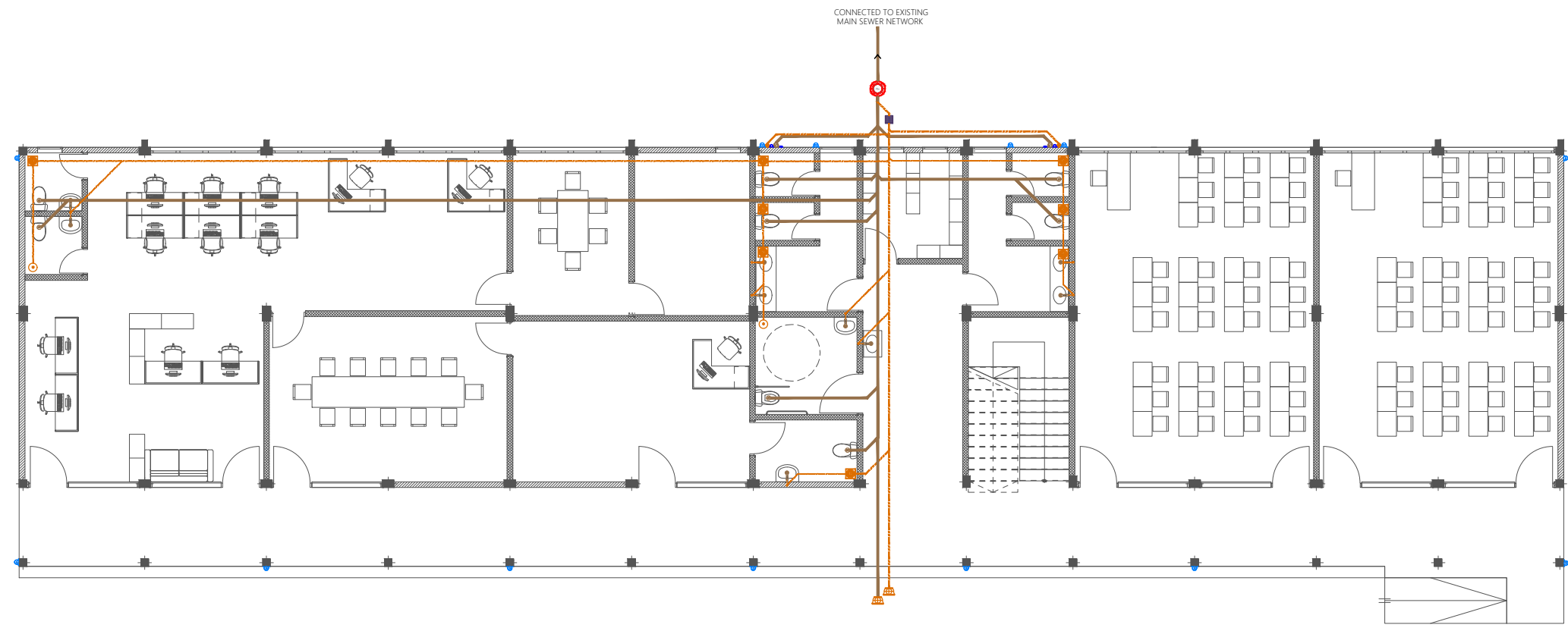
Clean Out Point

Bottle Trap

Notes: -

-All Drainage Pipes Should Have At A Slope Of 1/150

-All Floor Drains Should Have "P" Traps



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Page Title
Ground Floor Plan

Scale : A3 1:150

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GROUND FLOOR DRAINAGE 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)

110Ø Rainwater Outlet Perforated Cowl

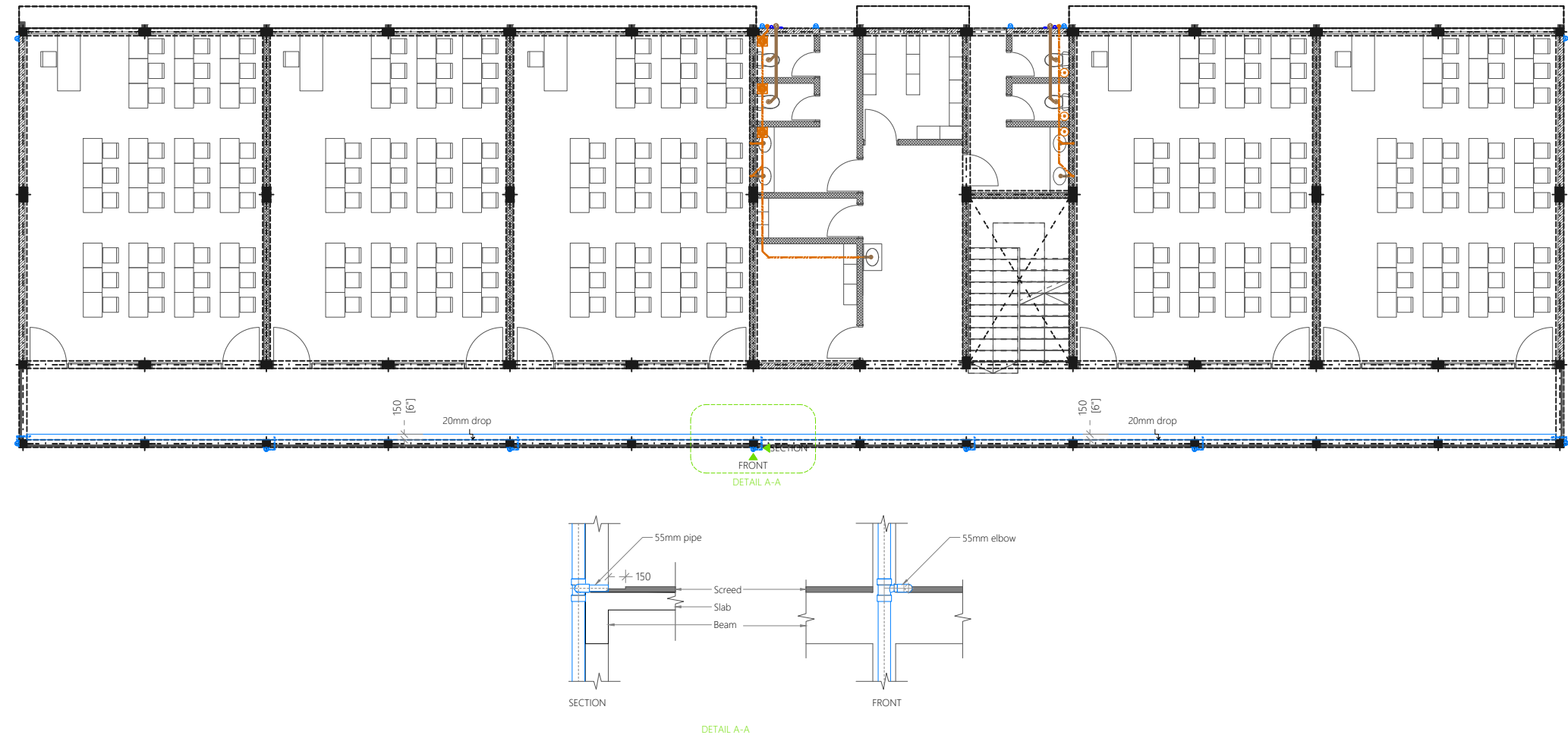
Gully Trap

Bottle Trap

Notes: -

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First Floor Plan

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Rev No : | **Pg :** DR-02

FIRST FLOOR DRAINAGE LAYOUT

1:150

Legend

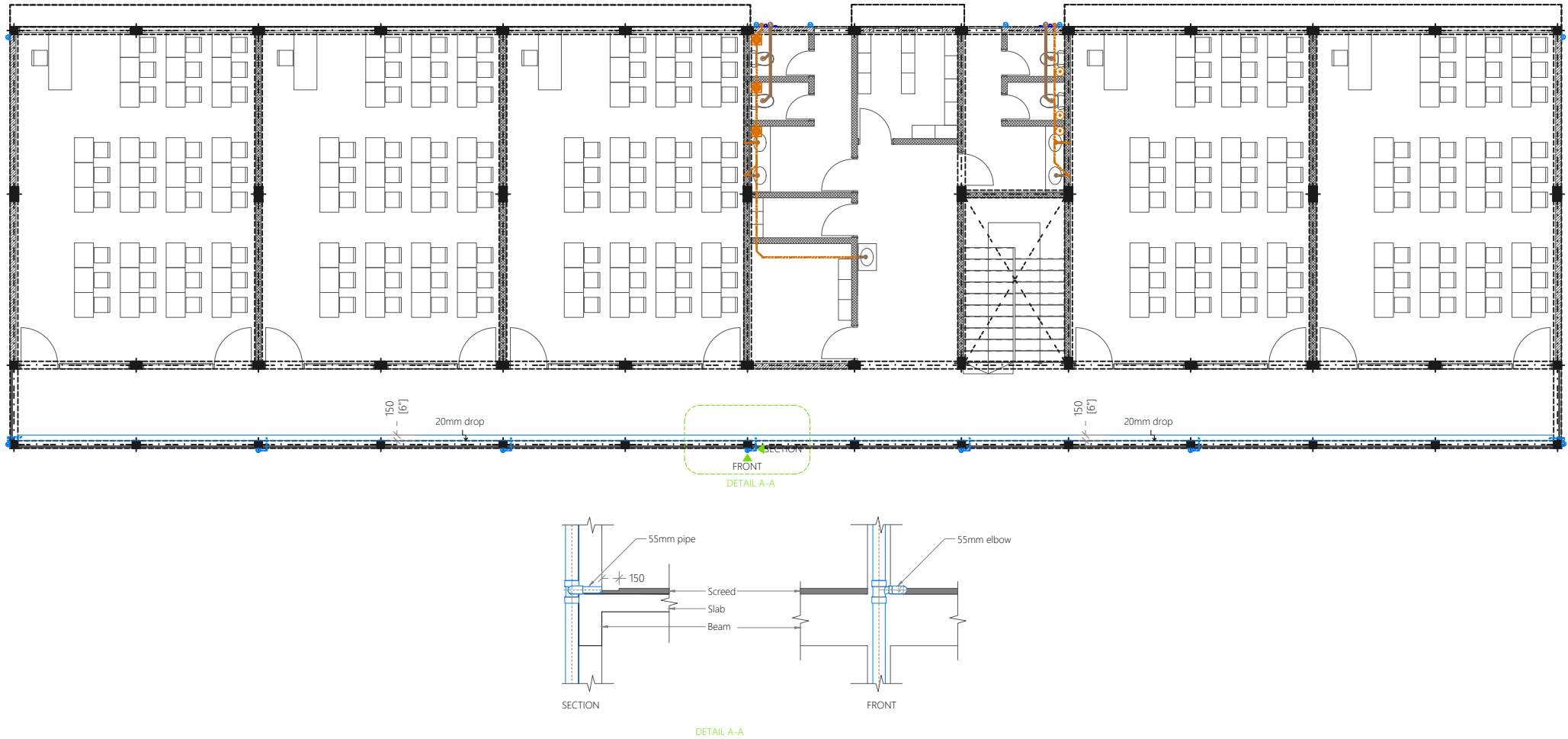
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Floor Gully

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Page Title
Second Floor Plan

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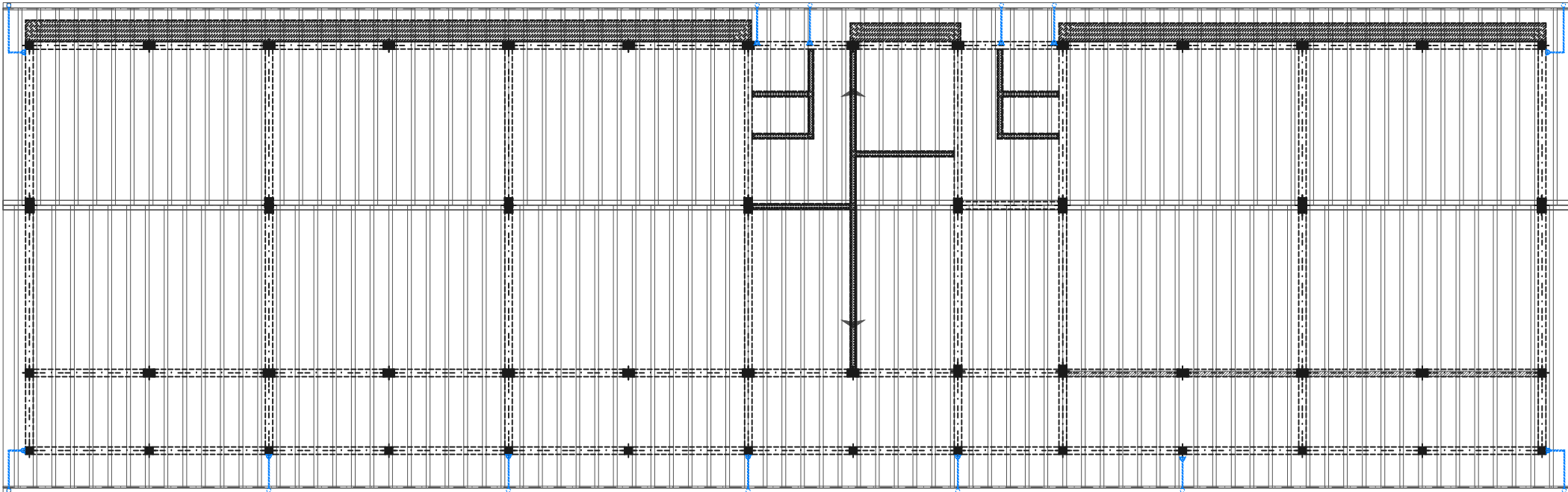
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Rev No : | **Pg :** DR-03

SECOND FLOOR DRAINAGE LAYOUT

1:150



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Page Title
Roof Plan

Scale : A3 1:150

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ROOF DRAINAGE LAYOUT

1:150