

BUILDING SERVICES DRAWINGS OF

PROPOSED 02 STOREY BUILDING AT

R. MAAKURATHU, 2 STOREY SCHOOL BUILDING
OFFICE, LIBRARY, STAFF ROOM AND LEADING
TEACHERS ROOM

For Ministry Of Education, Maldives




















By Epoch Associates Pvt. Ltd



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




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

Legend

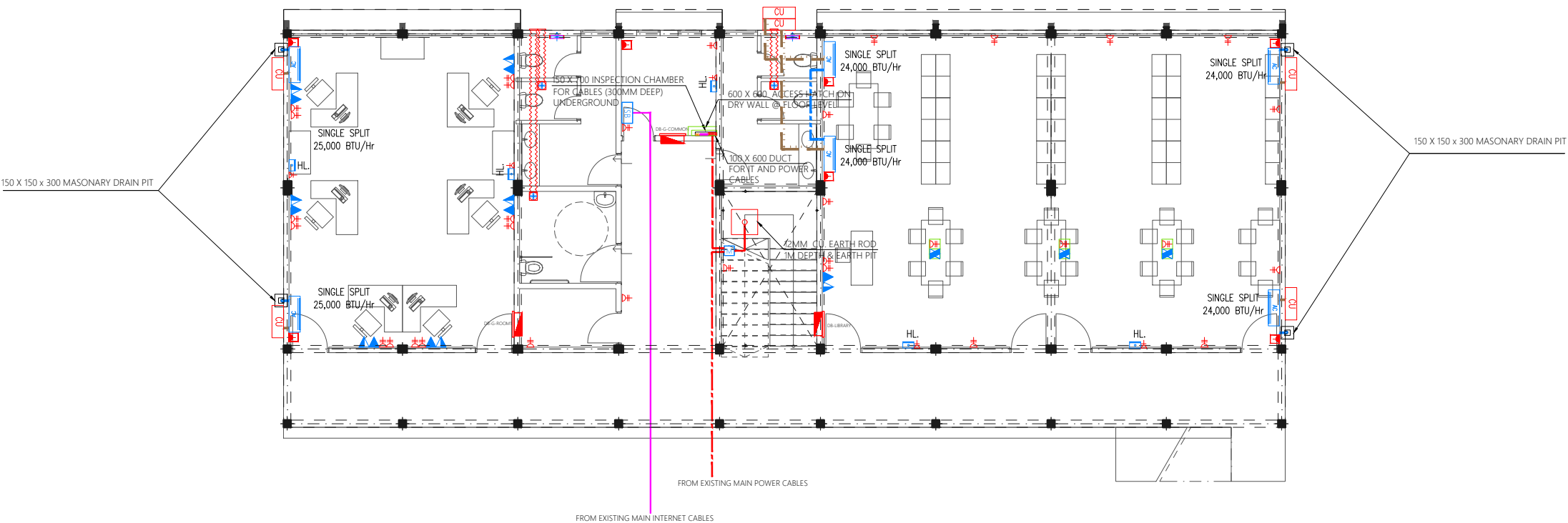
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|---|---|---|--|
|  | 13A Twin Socket |  | Computer Network Twin Outlet In Floor Mount Pop-up Box |
|  | 13A Power Socket |  | Telephone Outlet In Floor Mount Pop-up Box |
|  | 15A Switched Socket @ H.L. |  | Telephone Outlet |
|  | 13A Twin Socket In Floor Mount Pop-up Box |  | Computer Network Outlet |
|  | Distribution Board |  | HDMI Socket |
|  | HL. High Level |  | 82Ø PVC Duct For Tel./Internet Cable Lead In Below Ground Slab |
|  | Emergency Light |  | Main Incoming Cable For Power In 110Ø PVC Duct Below Ground Slab |
|  | Wall Mounted Speaker | | |
|  | Electricity Meter | | |
|  | Internet Switchboard | | |
|  | Public Address System | | |
|  | Computer Network Twin Outlet | | |

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

Legend

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

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



PROPOSED 02 STOREY
**Office, Library, Staff
Room, Leading
Teachers Room, R.
Maakurathu**




















Client:
Ministry Of Education

July 2021
Services By: **Mohamed Rassam**
Checked By:
Drawn By: **Hussain Rasheed**


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Legend

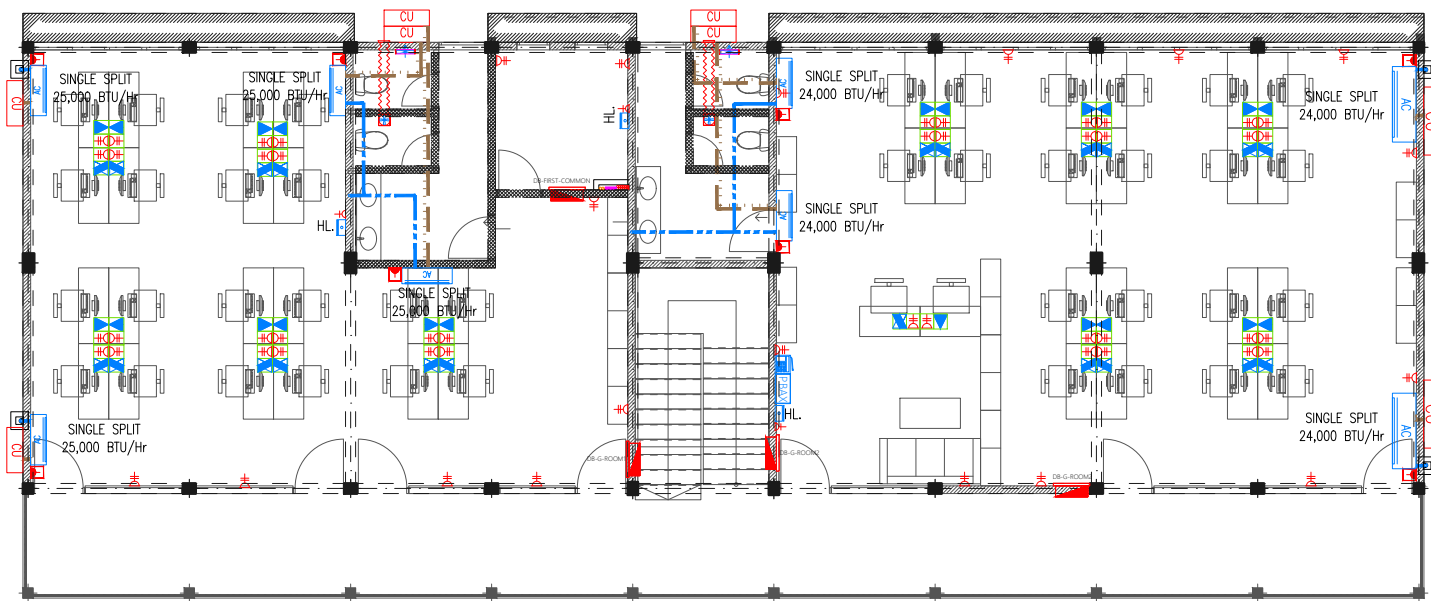
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|  | Wall Mounted Speaker | | |
|  | Electricity Meter | | |
|  | Internet Switchboard | | |
|  | Public Address System | | |
|  | Computer Network Twin Outlet | | |

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.
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Notes: -
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FIRST FLOOR POWER AND ACV LAYOUT

1:150

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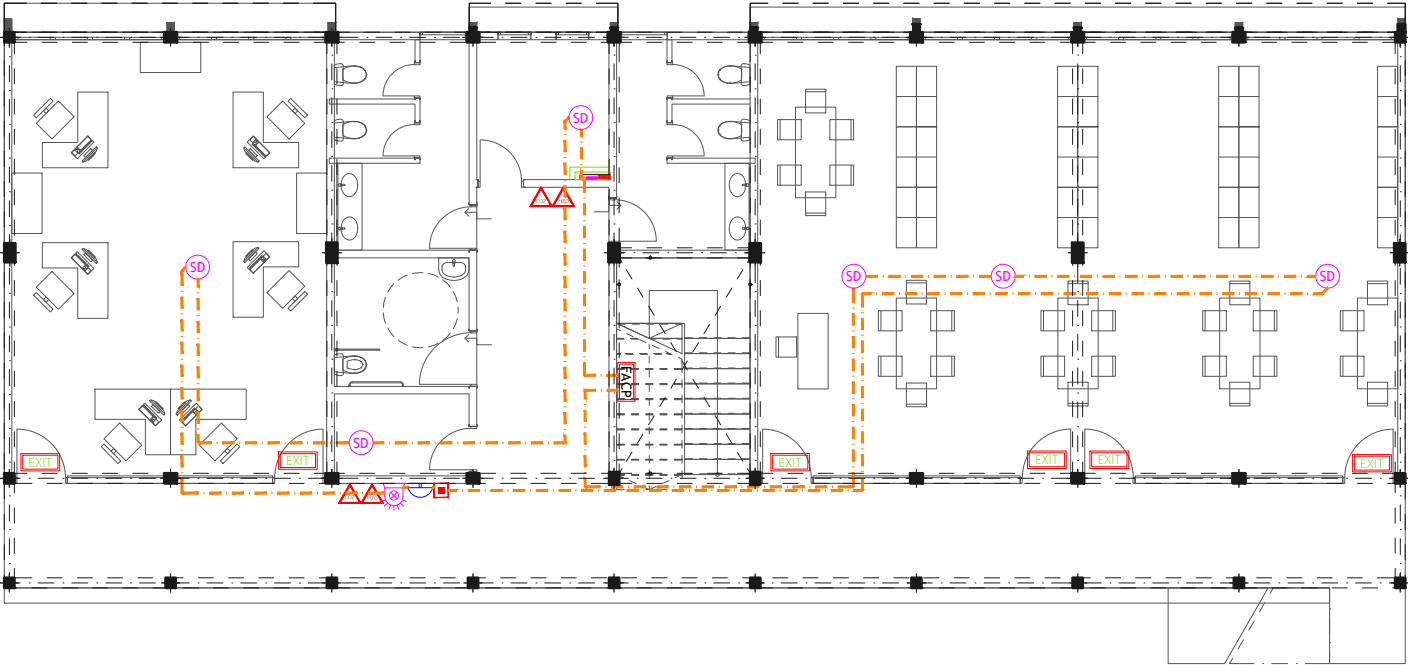
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Legend

-  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



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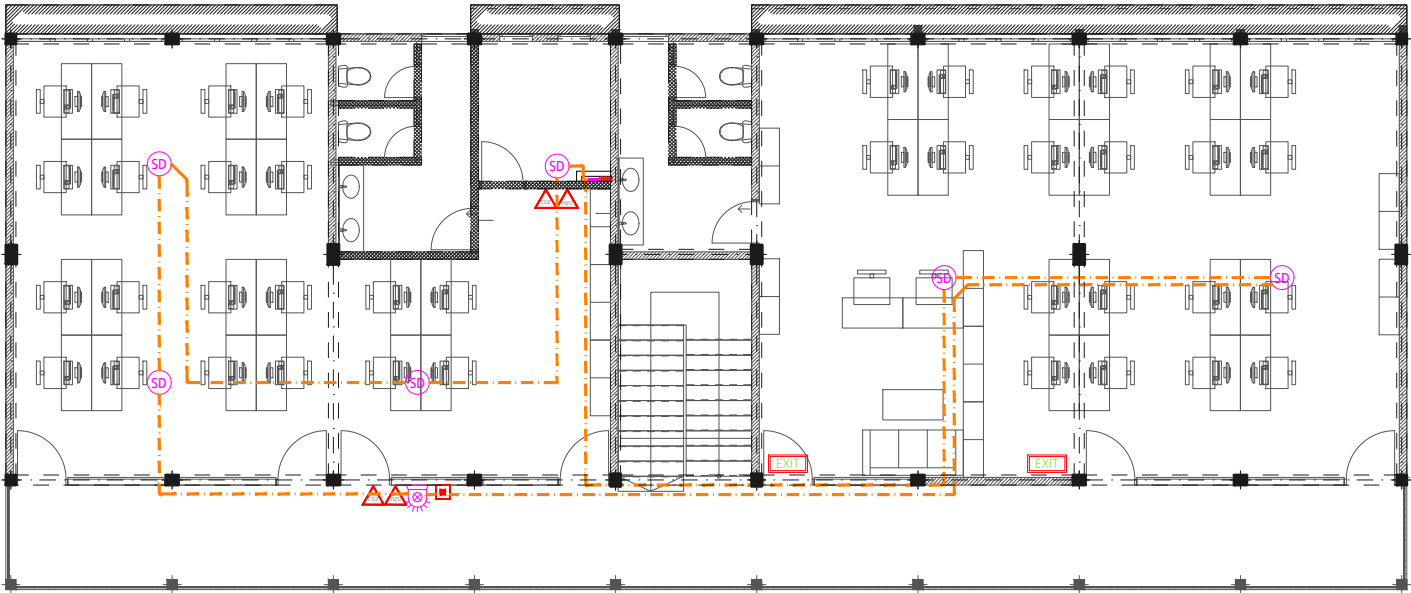
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Legend

-  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
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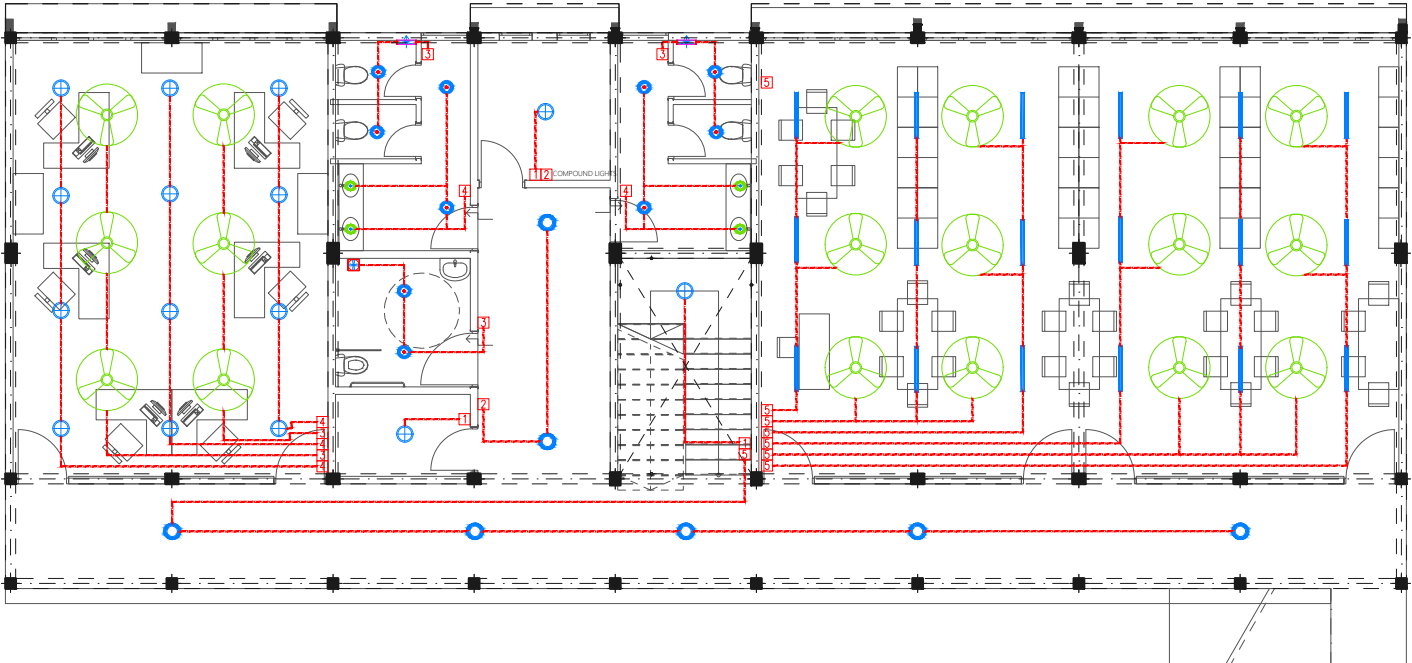
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Legend

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



GROUND FLOOR LIGHTING LAYOUT

1:150

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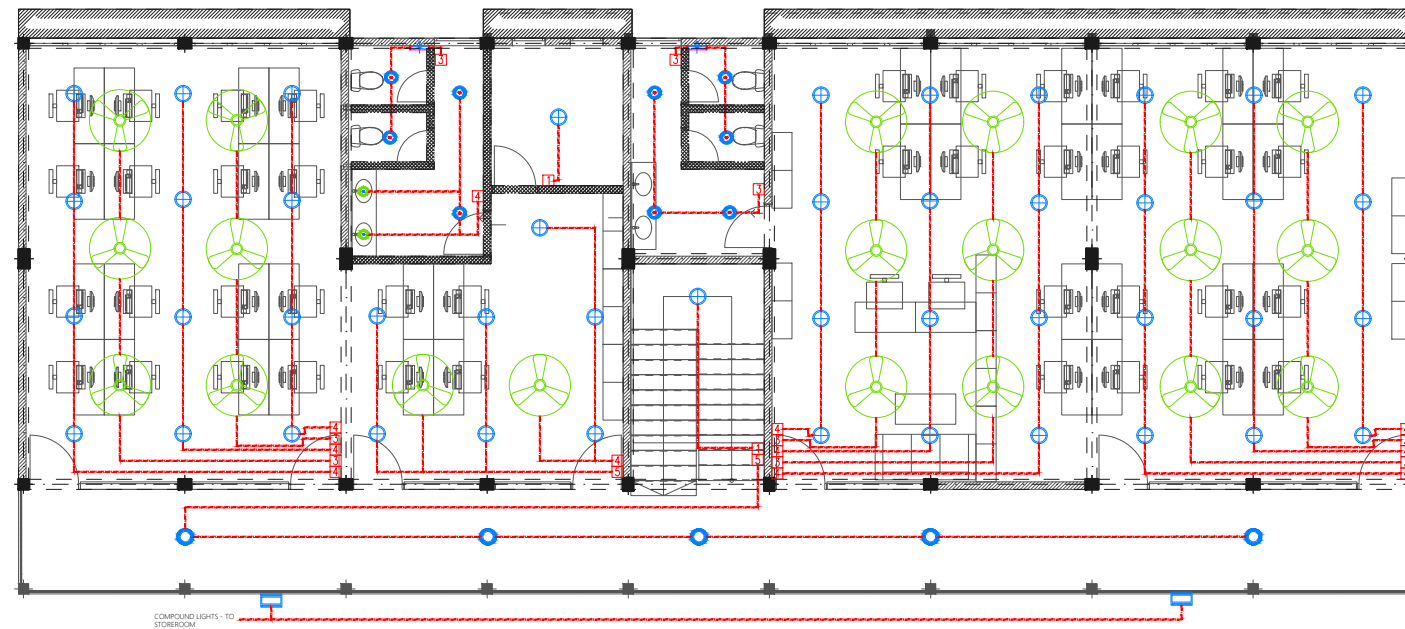
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| Rev: | Page: |
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Legend

-  Ceiling Light (18W)
-  Ceiling Light (12W)
-  Recessed Ceiling Light (12W)
-  Ceiling Down Light (18W) - Weather Proof
-  3 Ft Led Tube Light
-  100W, HPS, Wall Mounted Light, IP 65
-  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
1:150

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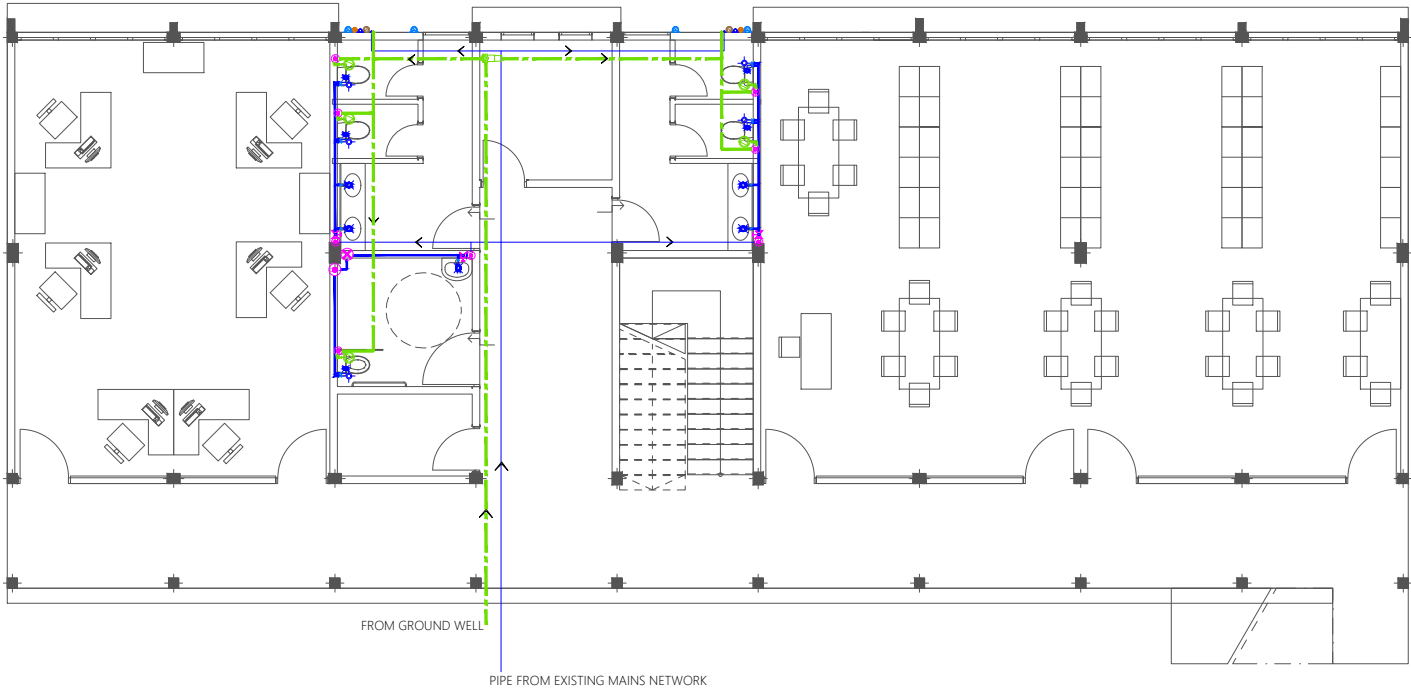
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- Legend
- 16Ø Cold Water Supply To Basin Faucet
 - 16Ø Cold Water Supply To Bidet Shower
 - 16Ø Cold Water Supply To Cistern
 - Gate Valve
 - Rise In Wall
 - Drop In Wall
 - Angle Valve with cap for Ground Water Supply
 - 25Ø Cold Water Supply Pipes 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
 - Well Water Pump

Notes: -

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



GROUND FLOOR PLUMBING LAYOUT
1:150

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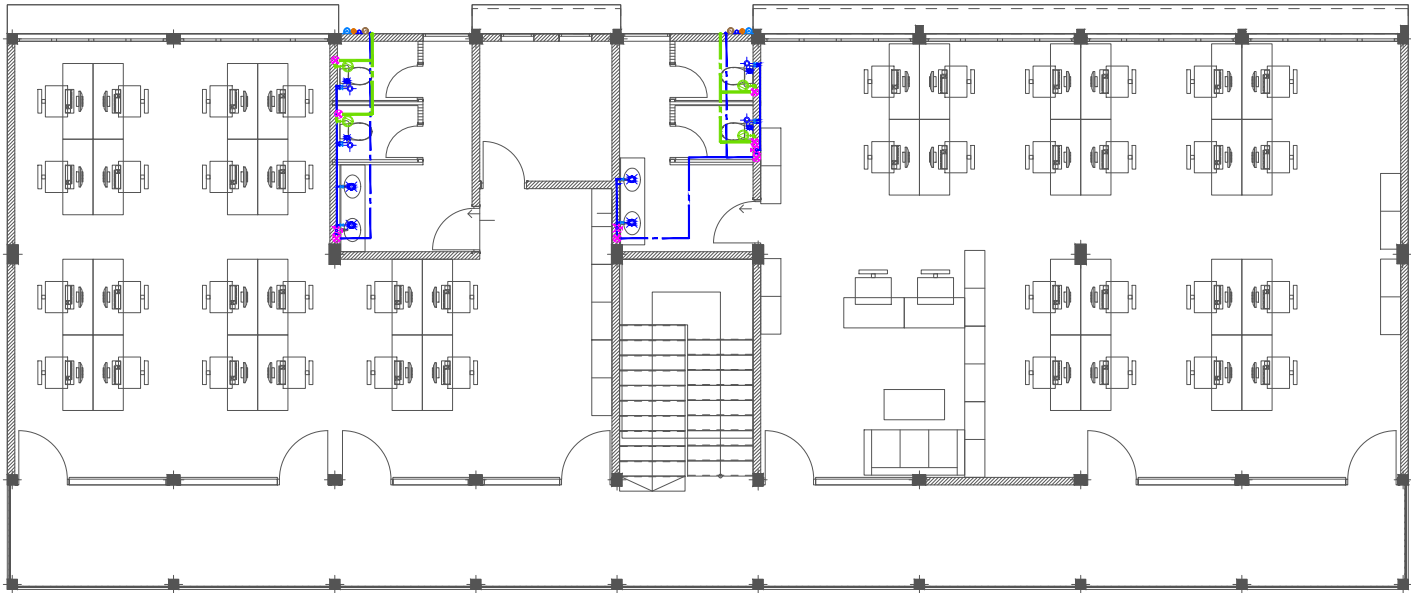
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Page: PL -01

- Legend
- 16Ø Cold Water Supply To Basin Faucet
 - 16Ø Cold Water Supply To Bidet Shower
 - 16Ø Cold Water Supply To Cistern
 - Gate Valve
 - Rise Through Slab
 - 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



FIRST FLOOR PLUMBING LAYOUT
1:150

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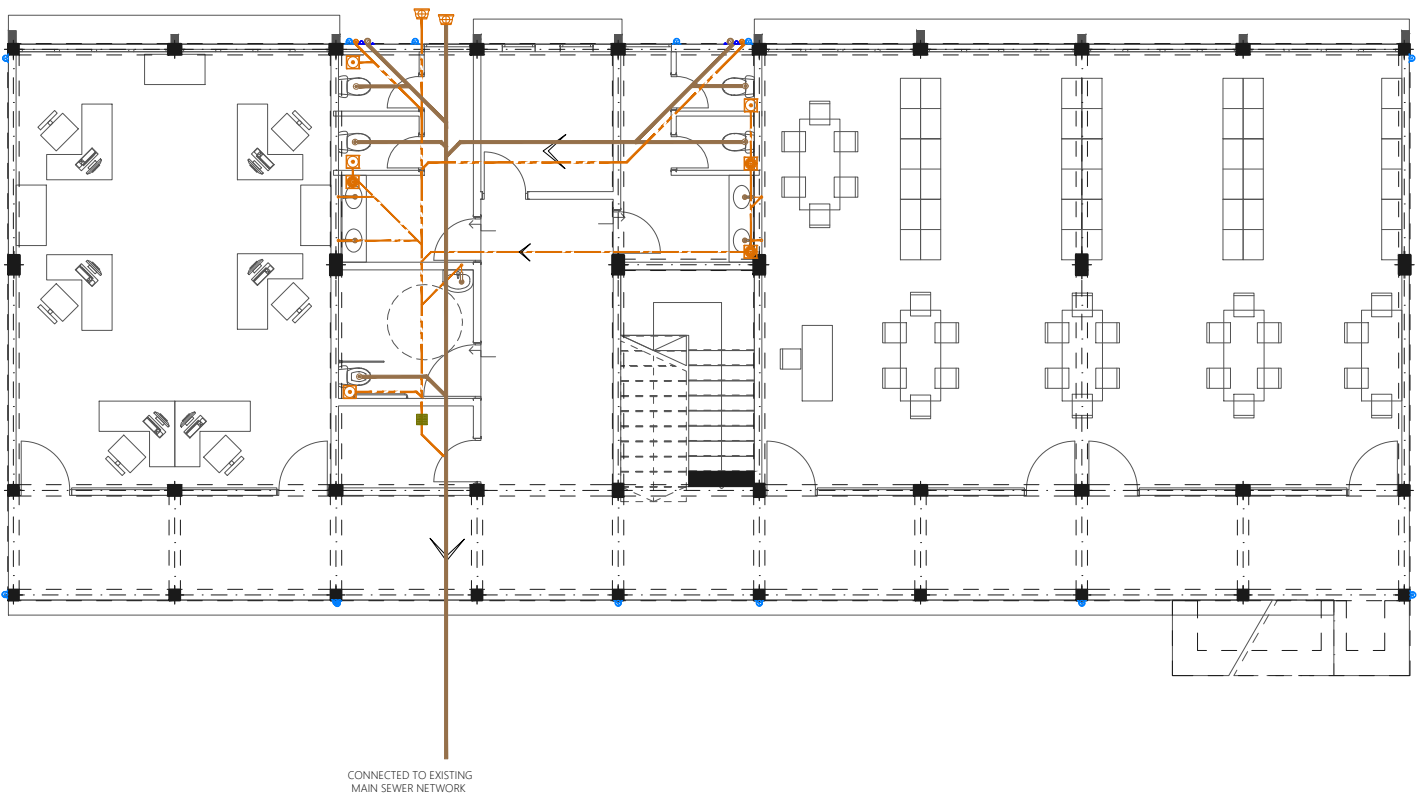

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- Legend
- Floor Drain
 - Floor Gully
 - 110Ø Soil Pipe (uPVC Pipe)
 - 110Ø Soil Vent Pipe (uPVC Pipe)
 - 82Ø Waste Pipe (uPVC Pipe)
 - 82Ø Waste Vent Pipe (uPVC Pipe)
 - 40Ø Waste Pipe (uPVC Pipe)
 - 63Ø Manhole Vent Pipe (uPVC Pipe)
 - 110Ø Rain Water Pipes (uPVC Pipe)
 - 110Ø Rainwater Outlet Perforated Cowl
 - Gully Trap
 - Clean Out Point
 - Bottle Trap

Notes: -

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



GROUND FLOOR DRAINAGE LAYOUT
1:150

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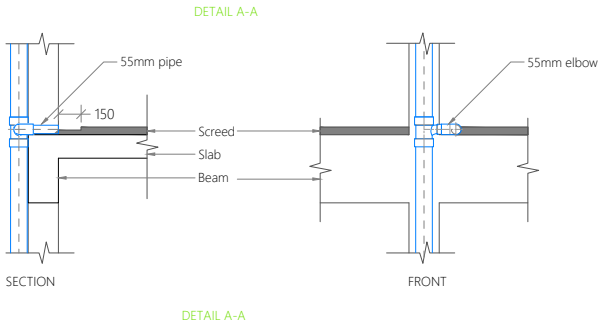
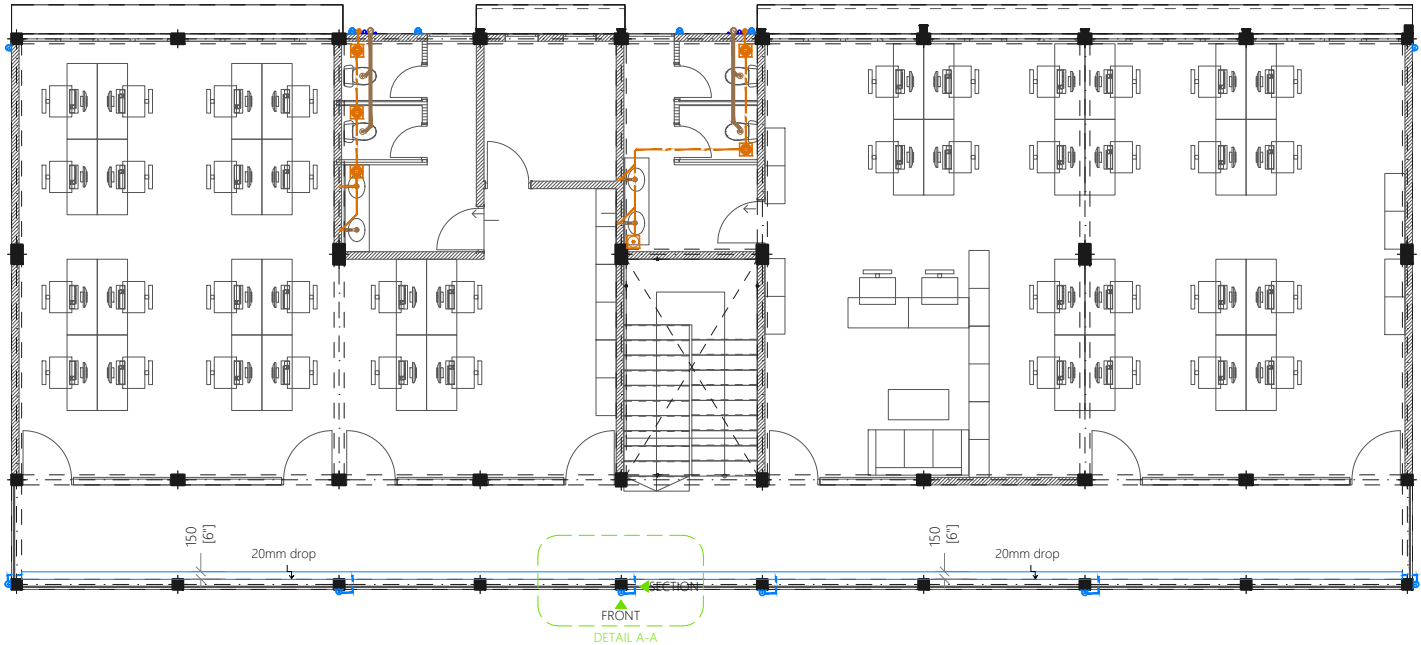

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- Legend
- Floor Drain
 - Floor Gully
 - 110Ø Soil Pipe (uPVC Pipe)
 - 110Ø Soil Vent Pipe (uPVC Pipe)
 - 82Ø Waste Pipe (uPVC Pipe)
 - 82Ø Waste Vent Pipe (uPVC Pipe)
 - 40Ø Waste Pipe (uPVC Pipe)
 - 63Ø Manhole Vent Pipe (uPVC Pipe)
 - 110Ø Rain Water Pipes (uPVC Pipe)
 - 110Ø Rainwater Outlet Perforated Cowl
 - Gully Trap
 - 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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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)


 82Ø Lab Waste Pipe (CPVC Pipe)


 82Ø Lab Waste Vent Pipe (CPVC Pipe)


 63Ø Manhole Vent Pipe (uPVC Pipe)

 110Ø Rain Water Pipes (uPVC Pipe)

 110Ø Rainwater Outlet Perforated Cowl

 Gully Trap

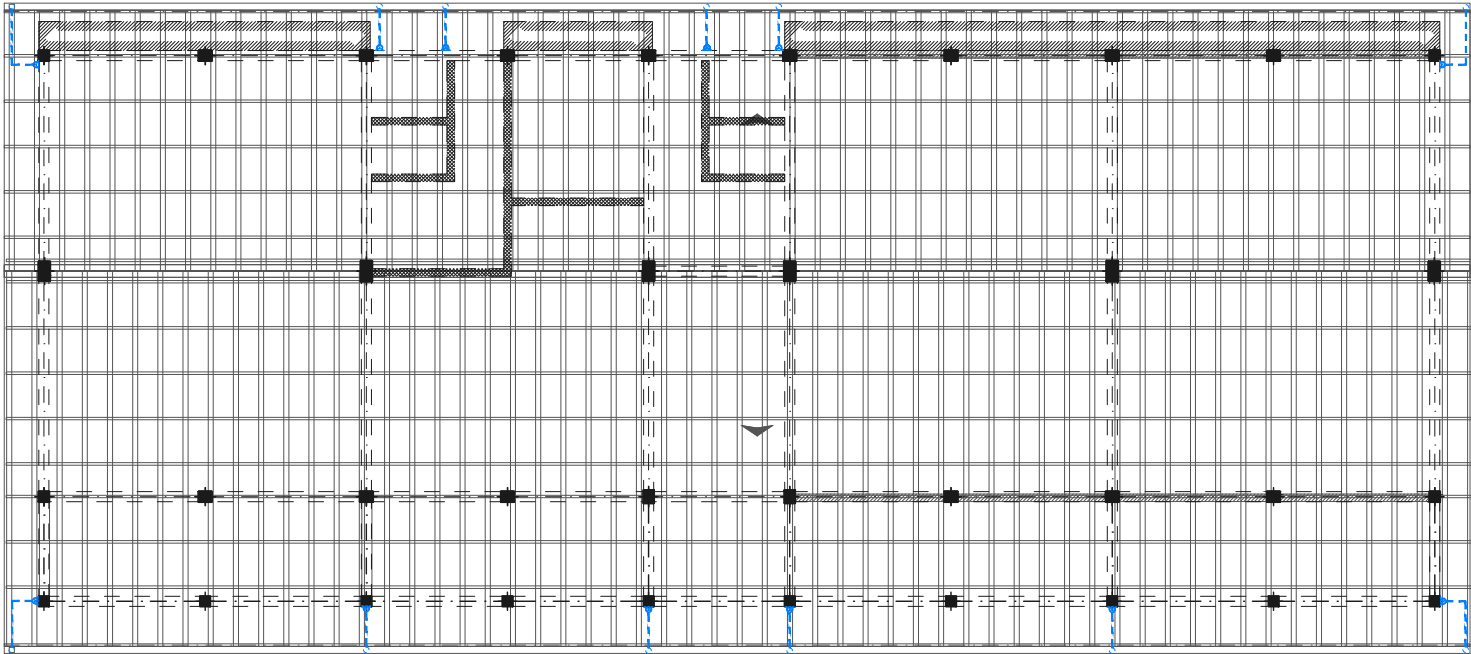
 Clean Out Point

 Bottle Trap

Notes: -

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

-All Floor Drains Should Have 'P' Traps



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