

Proposed 02 Classroom, ICT & Lab at
Gdh.Hoandedhdhoo School
(02 Storey)

SERVICES DRAWINGS
Client: Ministry of Education



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3rd floor, H. Azum, Amereemagau, Male'

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GROUND FLOOR DRAINAGE LAYOUT



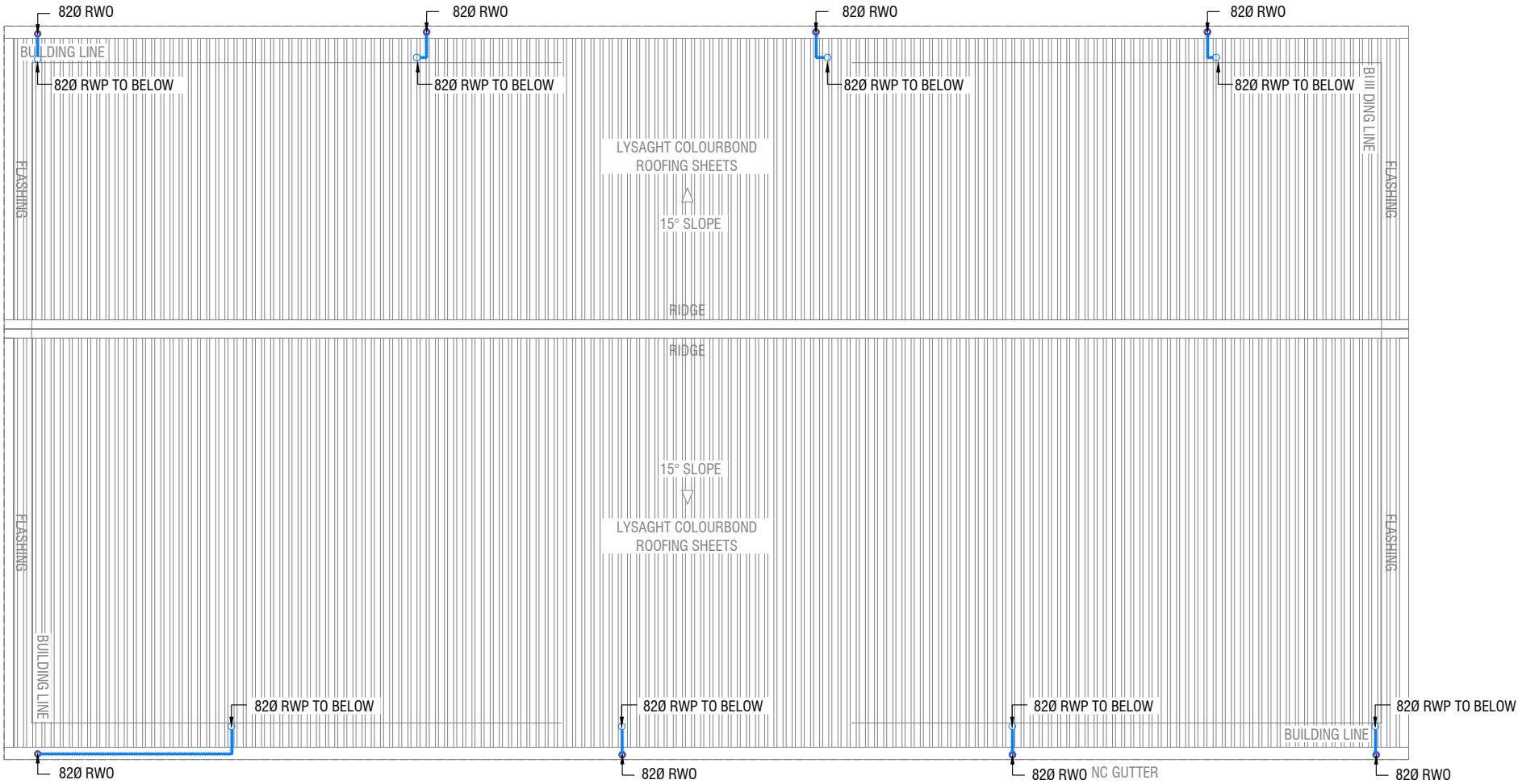


NOTE:
- ALL SOIL AND WASTE PIPES TO BE UNDER THE SLAB LEVEL.



Title: First Floor
Drainage Layout

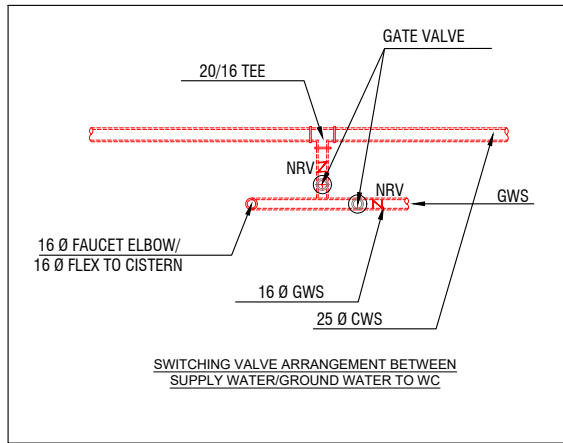
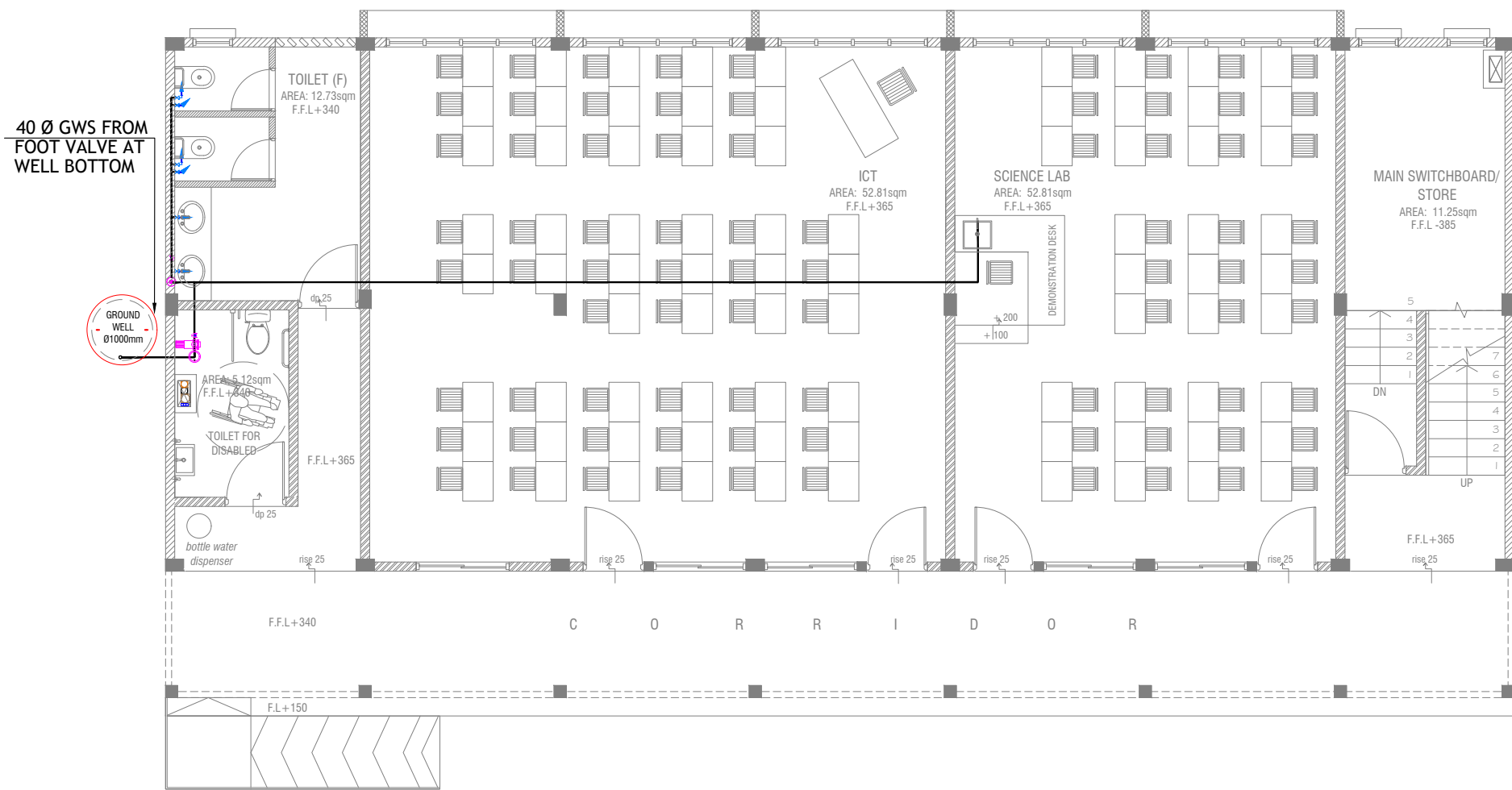
ROOF DRAINAGE LAYOUT



- LEGEND
- FG FLOOR GULLY
 - FD FLOOR DRAIN
 - WM 40 Ø STUB FOR WASHING MACHINE
 - SP 110 Ø SOIL PIPE
 - SVP 110 Ø SOIL VENT PIPE
 - WP 82 Ø WASTE PIPE
 - WVP 82 Ø WASTE VENT PIPE
 - WP 40 Ø WASTE PIPE
 - RWP 82/50 Ø RAINWATER PIPE
 - RWO 82/50 Ø DRAIN OUTLET
 - CD 25 Ø DRAIN PIPE
 - MHVP 50 Ø MANHOLE VENT PIPE

GROUND FLOOR PLUMBING LAYOUT

SCALE 1:100



LEGEND

- 16 Ø COLD WATER SUPPLY TO CISTERN
- 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
- 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
- GV GATE VALVE
- 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
- 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
- RISE IN WALL
- DROP IN WALL
- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- GROUND WATER SUPPLY

NOTE:

- THE WELL SHALL BE RELOCATED ACCORDING TO THE SALINITY OF THE GROUND WATER.
- BASED ON WELL LOCATION PUMP CAPACITY TO BE DECIDED

Gdh.Hoandedhdhoo School 2 Classroom, ICT & Lab Block (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: March 2021

Architect: Mariyam Irasha Shareef

Engineer: Mohamed Muthalib Waleed

Drawn by: Mariyam Irasha Shareef

Services: Aishath Ahmed

Rev no

Date

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Title: Ground Floor
Plumbing Layout

Page: PL 01-/02

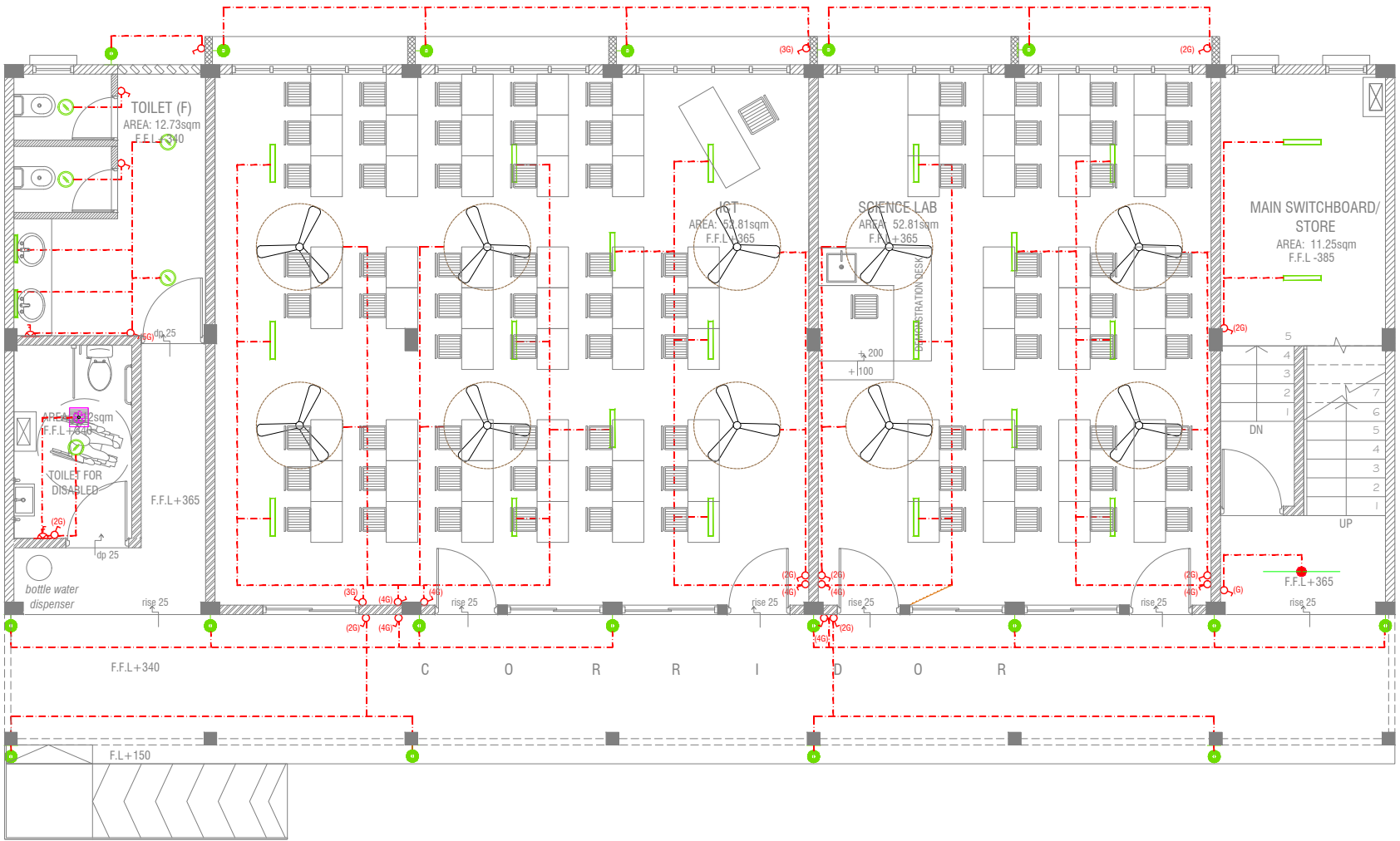
FIRST FLOOR PLUMBING LAYOUT



- LEGEND
- 16 Ø COLD WATER SUPPLY TO CISTERN
 - 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
 - 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
 - GV GATE VALVE
 - 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
 - 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
 - RISE IN WALL
 - DROP IN WALL
 - CWS COLD WATER SUPPLY
 - HWS HOT WATER SUPPLY
 - GROUND WATER SUPPLY

Gdh.Hoandedhdhoo School 2 Classroom, ICT & Lab Block (2 story)
Client: Ministry of Education
Project Number: RI/2020/006
Date: March 2021
Architect: Mariyam Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Drawn by: Mariyam Irasha Shareef
Services: Aishath Ahmed

GROUND FLOOR LIGHTING LAYOUT



LEGEND

- WPD 40W (IP 65) OUT DOOR WALL LIGHT
- ML MIRROR LIGHT (7W LED LIGHT)
- H2 LED RECESSED DOWN LIGHT 12W
- CL LED CEILING LIGHT 18W
- WP LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
- C2 LED CEILING DOWN LIGHT (18W)
- LIGHT SWITCH
- SWITCHING LINE
- EXHAUST FAN (CEILING MOUNTED)
- FLEX OUTLET

CL2 LED TUBE LIGHT WITH OPAL CASING



NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
- ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS

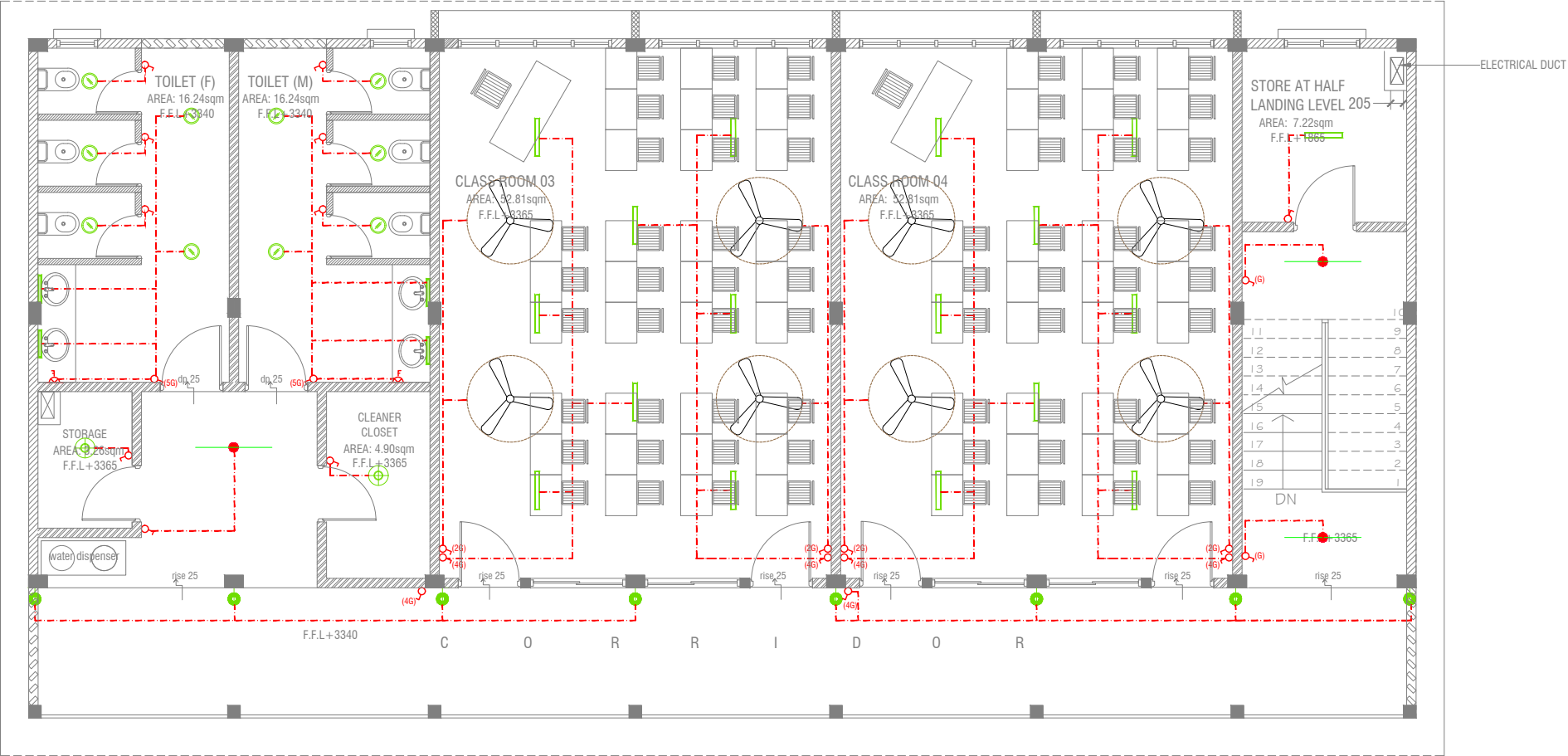
Gdh.Hoandedhdhoo School 2 Classroom, ICT & Lab Block (2 story)
Client: Ministry of Education

Rev no	Date
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FIRST FLOOR LIGHTING LAYOUT



LEGEND

- WPD 40W (IP 65) OUT DOOR WALL LIGHT
- ML MIRROR LIGHT (7W LED LIGHT)
- H2 LED RECESSED DOWN LIGHT 12W
- CL LED CEILING LIGHT 18W
- WP LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
- C2 LED CEILING DOWN LIGHT (18W)
- LIGHT SWITCH
- SWITCHING LINE
- FLEX OUTLET

CL2 LED TUBE LIGHT WITH OPAL CASING



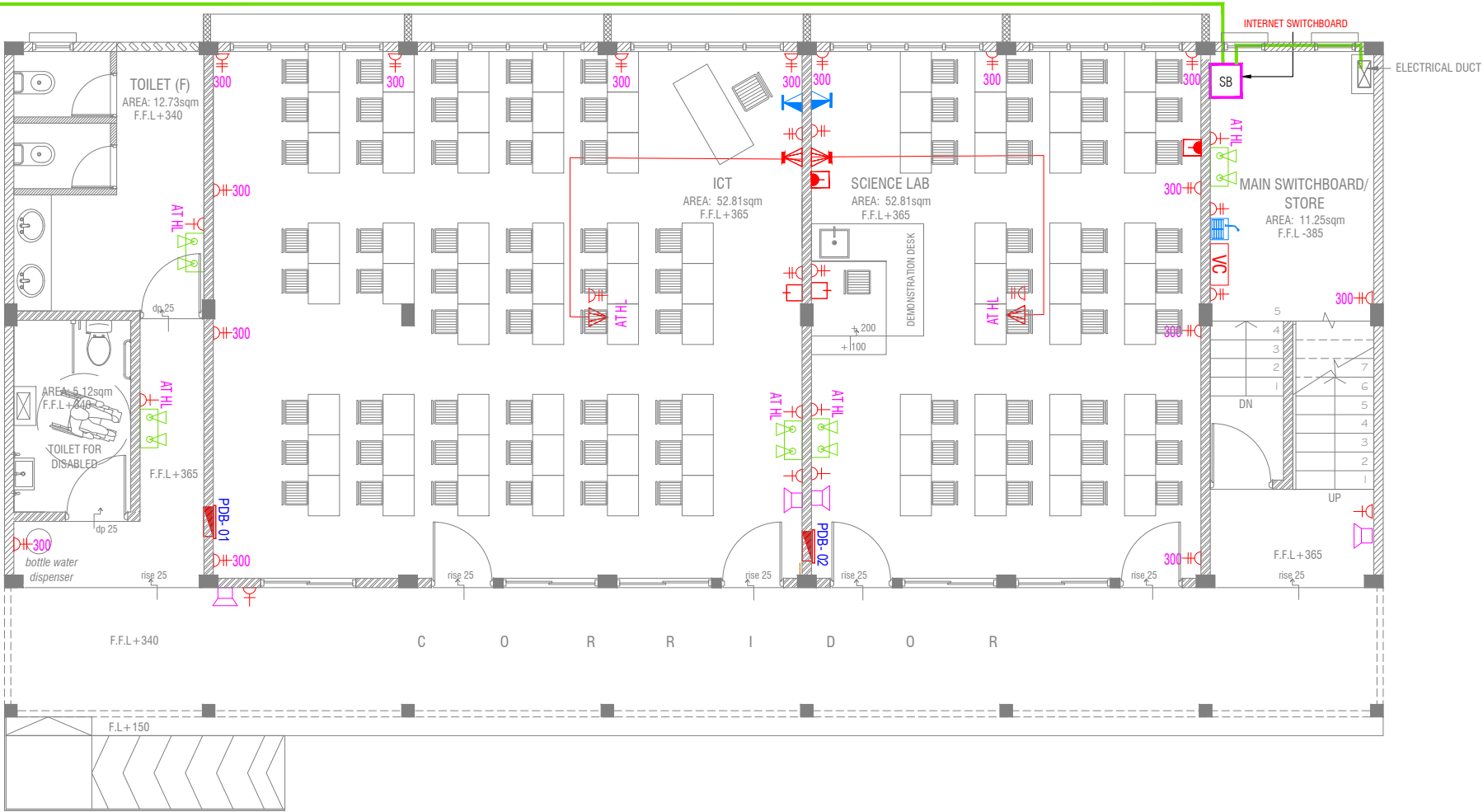
CEILING FAN (52" - 54")

NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
- ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS

Rev no	Date
1	
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PVC DUCT FOR DATA CABLE LEAD IN BELOW GR.SLAB



GROUND FLOOR POWER LAYOUT

SCALE 1:100



NOTE:

1. ALL WIRING TO BE OF APPROVED STANDARDS
2. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
5. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

LEGEND

- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER OUTLET
- 13A TWIN SOCKET OUTLET
- HDMI,VGA & RAC AV SOCKET
- DISTRIBUTION BOX
- SPEAKERS
- HDMI,VGA & RAC AV TWIN SOCKET
- TWIN COMPUTER NETWORK OUTLET
- DATA POINT
- TWO GANG / TV SOCKET
- 15A.SWITCHED/ SPUR UNIT @ H.L.

- PAGING MIC
- VOLUME CONTROLLER
- EMERGENCY LIGHT

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

TO SUPPLY AND INSTALL PANEL BOARD WITH KWH METER. WIRING AND CONNECTION TO MAIN PANEL BOARD FROM MAIN ELECTRICAL NETWORK (LOCATED AT MAIN SWITCH BOARD / STORE)

GdH.Hoandedhdhoo School 2 Classroom, ICT & Lab Block (2 story)

Client: Ministry of Education

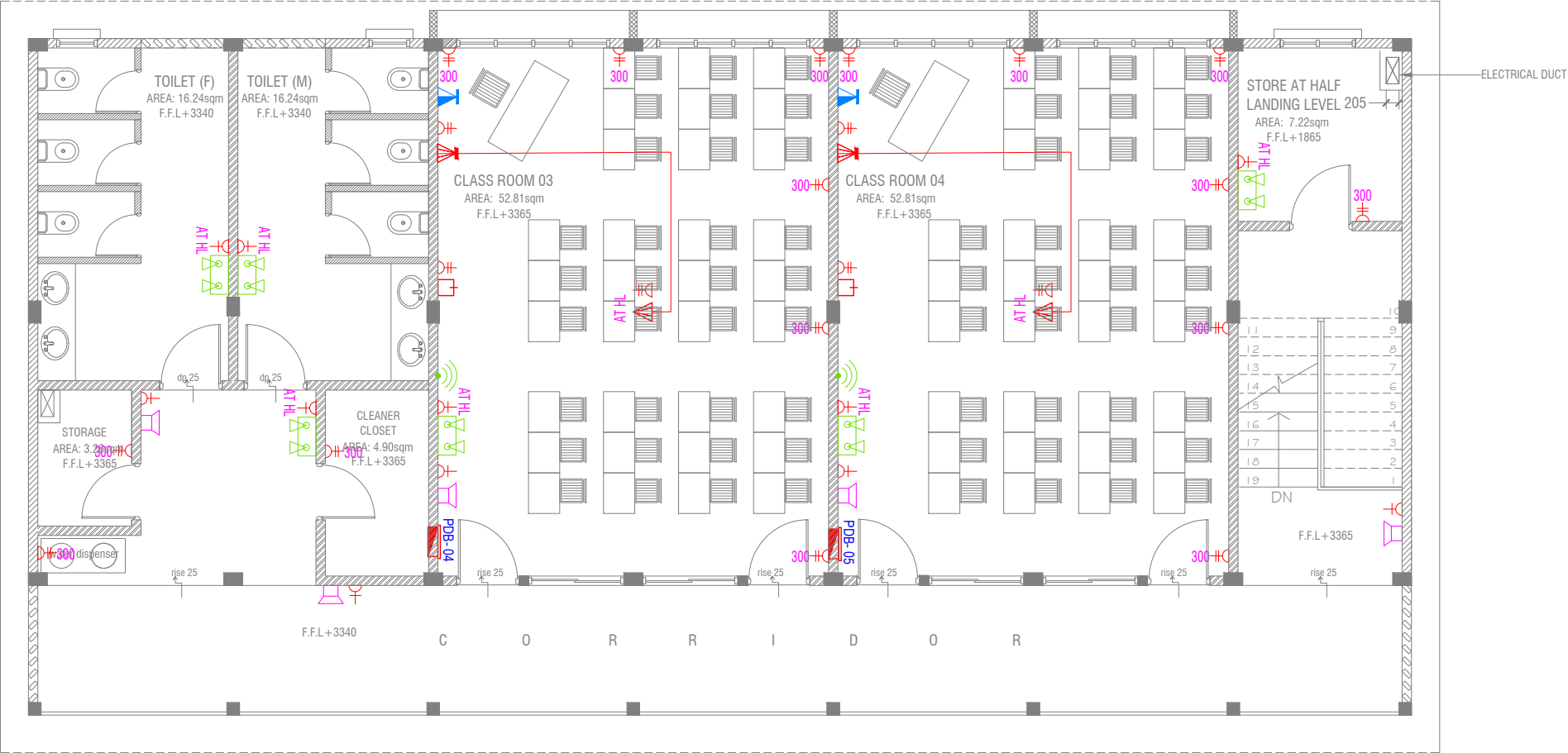
Rev no	Date
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Title: Ground Floor
Power Layout

Page: EP 01-02



FIRST FLOOR POWER LAYOUT



- NOTE:**
1. ALL WIRING TO BE OF APPROVED STANDARDS
 2. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
 3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
 4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
 5. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

- LEGEND**
- TELEPHONE OUTLET (RJ11, CONNECTOR)
 - 13A POWER OUTLET
 - 13A TWIN SOCKET OUTLET
 - HDMI,VGA & RAC AV SOCKET
 - DISTRIBUTION BOX
 - SPEAKERS
 - HDMI,VGA & RAC AV TWIN SOCKET
 - TWIN COMPUTER NETWORK OUTLET
 - DATA POINT
 - TWO GANG / TV SOCKET

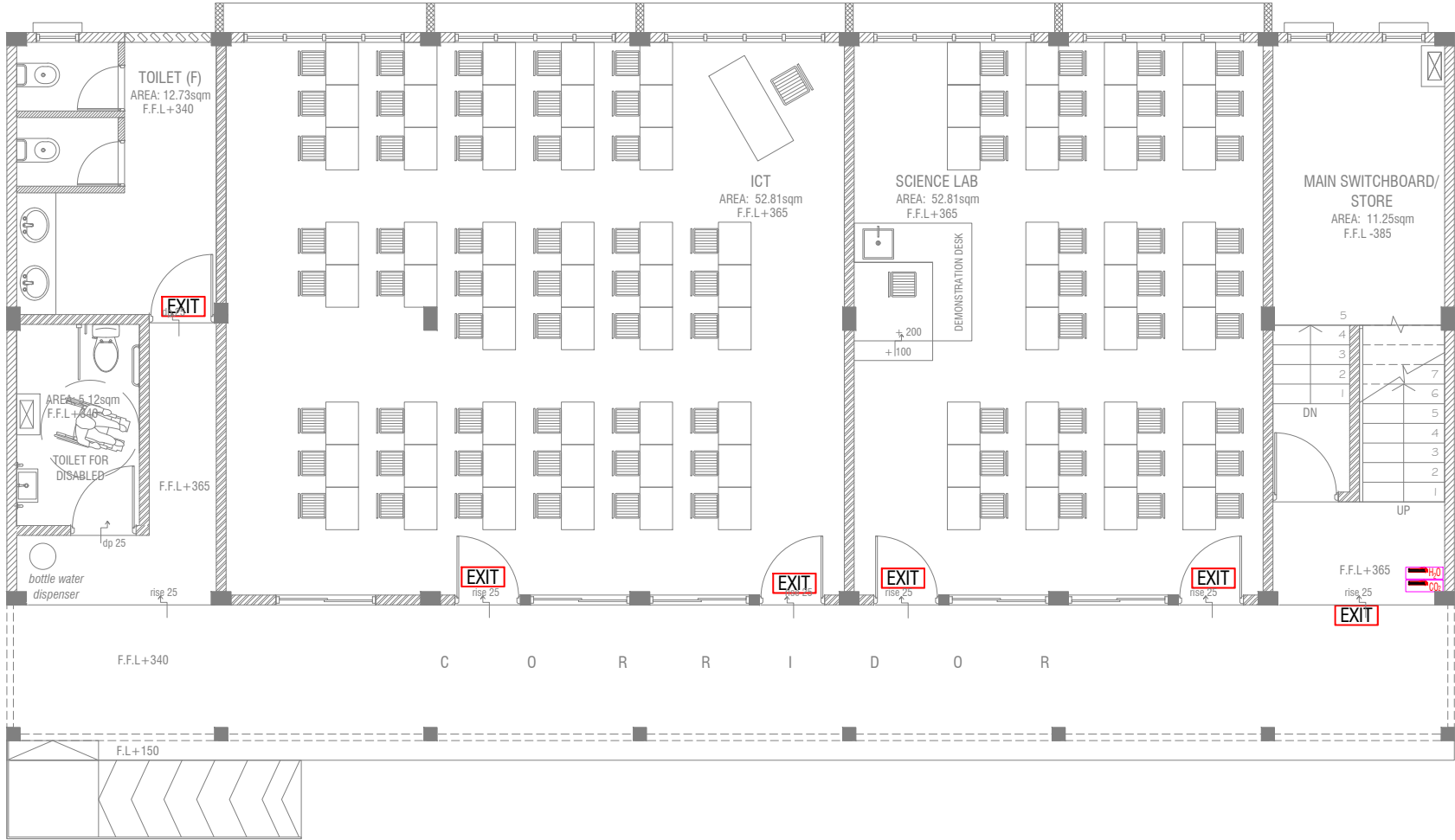
- PAGING MIC
- VOLUME CONTROLLER
- EMERGENCY LIGHT

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

GROUND FLOOR FDP LAYOUT

SCALE 1:100



LEGEND

- EXIT SIGN
- CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- H₂O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

ALL FIRE CABLES AND CONDUITS SHOULD BE FIRE RETARDANT LOW SMOKE (FRLS) TYPE.

ALL FIRE RATED DOOR SHOULD COME WITH PACKING (EXPANSION SEAL TRAP)

- 1.ALL PIPES SHOULD BE GALVANIZED,SCHEDULE 40.
2. ALL PIPE SHALL BE PAINTED IN RED AS PER REGULATION.
3. ALL SUPPORT/BRACKET SHALL BE HOT DIPPED GALVANIZED TO 100MM
- 4.ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

-IF THE INSTALLATION OF CEILING IS CARRIED OUT LOWER THAN BEAM BOTTOM ,SMOKE DETECTORS SHOULD BE PLACED AS INDICATED ON THE DRAWING.
-ALTERNATIVELY IF THE INSTALLATION OF CEILING IS CARRIED OUT EQUAL TO BEAM BOTTOM OR IF THE CEILING IS NOT INSTALLED , SMOKE DETECTORS ARE TO BE PLACED IN BETWEEN EACH BEAM

Gdh.Hoandeddhoo School 2 Classroom, ICT & Lab Block (2 story)
Client: Ministry of Education

Rev no	Date
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Project Number: RI/2020/006
Date: March 2021
Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muththalib Waleed
Drawn by : Mariyam Irasha Shareef
Services : Aishath Ahmed
Interior : -



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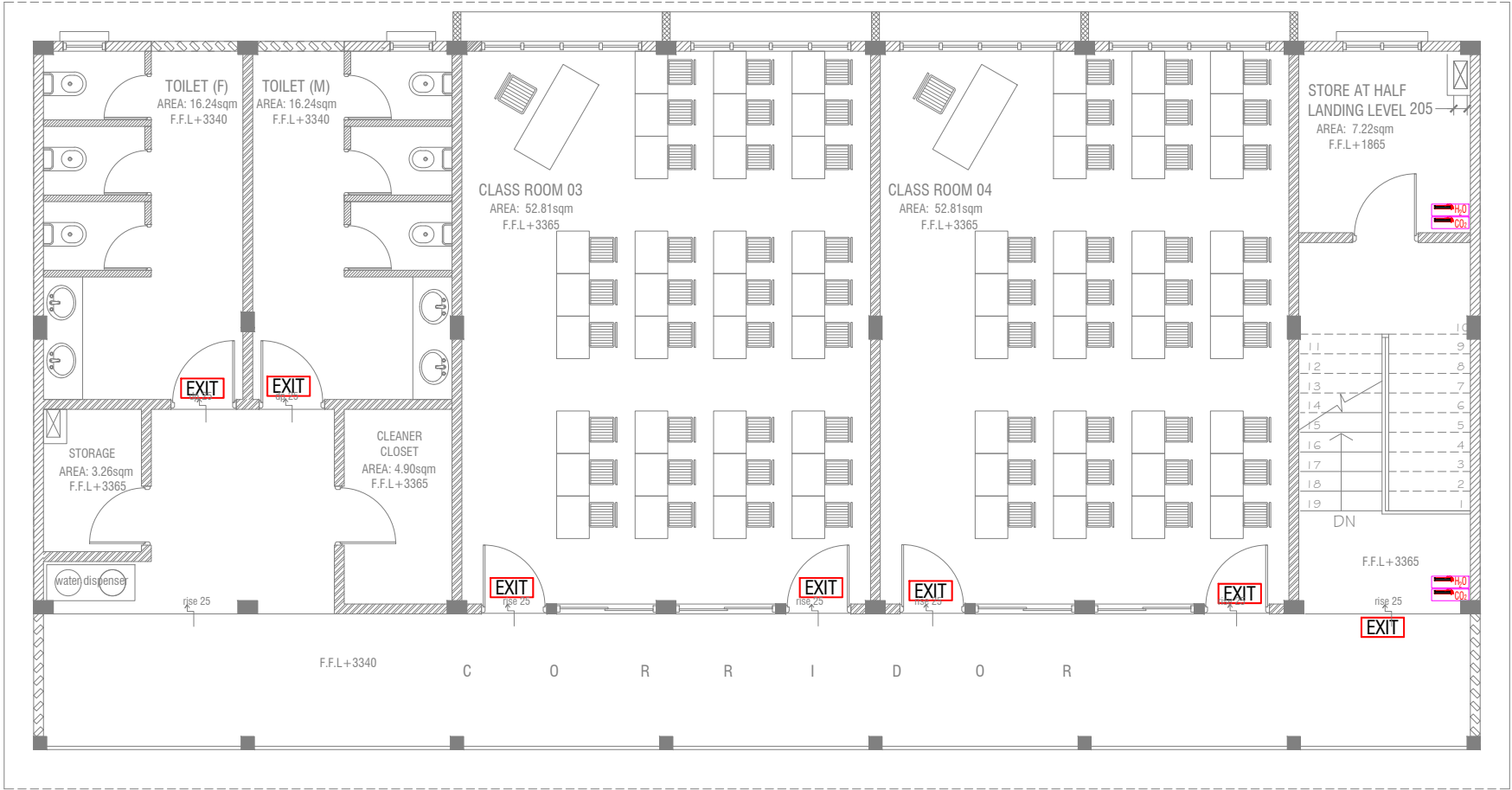
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Title: Ground Floor
FDP Layout

Page: FDP 01-02

FIRST FLOOR FDP LAYOUT

SCALE 1:100



LEGEND

- EXIT SIGN
- CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- H₂O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

ALL FIRE CABLES AND CONDUITS SHOULD BE FIRE RETARDANT LOW SMOKE (FRLS) TYPE.

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Project Number: RI/2020/006	Rev no	Date
Date: March 2021	---	---
Architect : Mariyam Irasha Shareef	---	---
Engineer : Mohamed Muththailb Waleed	---	---
Drawn by : Mariyam Irasha Shareef	---	---
Services : Aishath Ahmed	---	---
Interior : -	---	---



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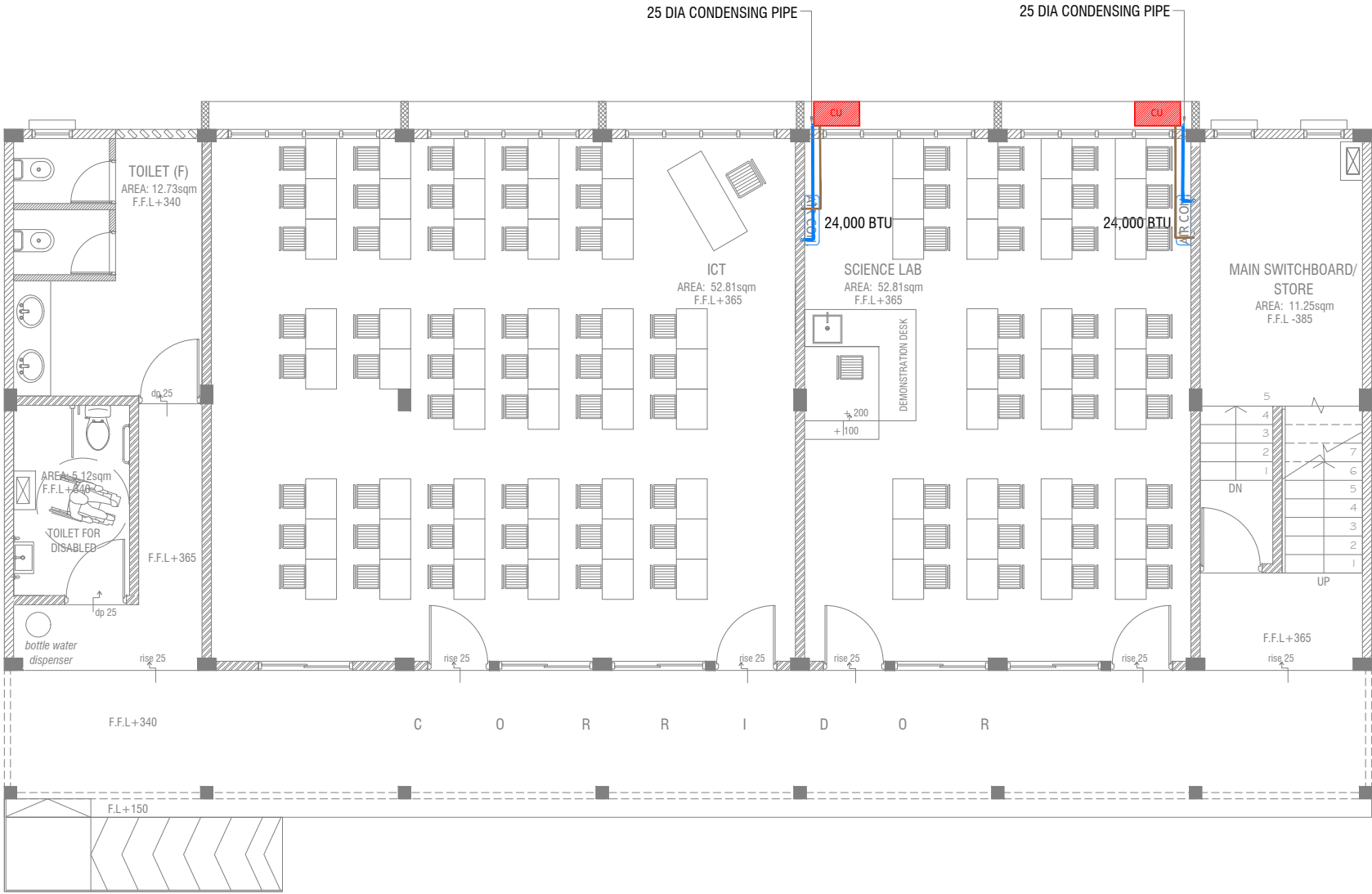
GROUND FLOOR ACV LAYOUT

SCALE 1:100



LEGEND

- REFRIGERANT PIPES
- 25 Ø CONDENSATE DRAIN PIPE
- CONDENSING UNIT



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Client: Ministry of Education

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Date: March 2021	
Architect: Mariyam Irasha Shareef	
Engineer: Mohamed Muthalib Walleed	
Drawn by: Mariyam Irasha Shareef	
Services: Aishath Ahmed	
Interior: -	

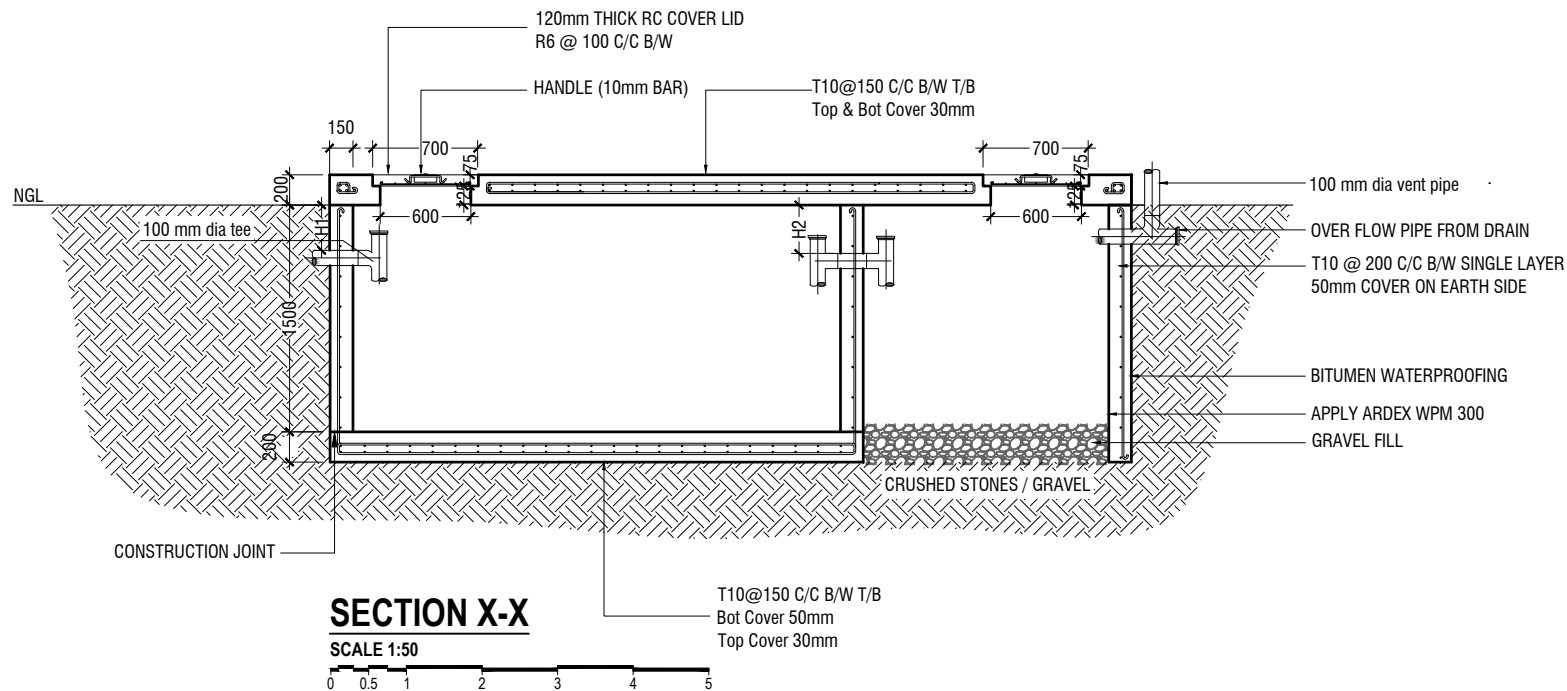
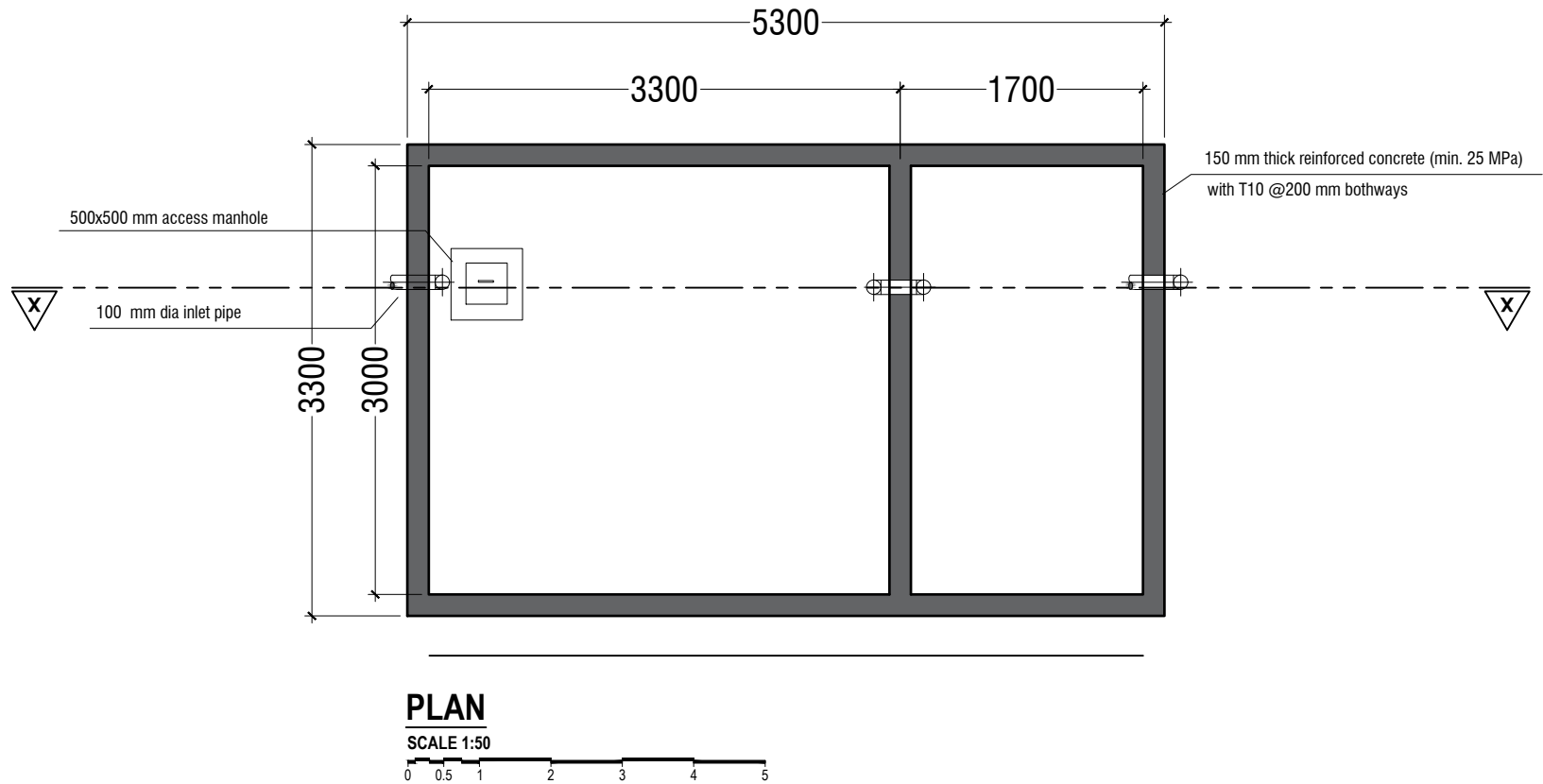


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Title: Ground Floor
ACV Layout

Page: ACV 01-01



NOTE:

H1 < H2

- TOP AND BOTTOM OF SEPTIC TANK SHOULD BE OF 200mm THICK
- BITUMINOUS WATERPROOFING TO BE APPLIED BELOW GROUND SURFACE
- REINFORCEMENT TO HAVE A COVER OF 50mm FROM EARTH

SEPTIC TANK DETAIL

SCALE 1:50



Gdh.Hoandedhdhoo School 2 Classroom, ICT & Lab Block (2 story)
Client: Ministry of Education

Rev no	Date
1	2020/06
2	2021/03
3	2021/03
4	2021/03
5	2021/03

Project Number: RI/2020/006
Date: March 2021
Architect : Mariyam Irasha Shareef
Engineer : Mohamed Muththailb Waleed
Drawn by : Mariyam Irasha Shareef
Services : Alstath Ahmed
Interior : -



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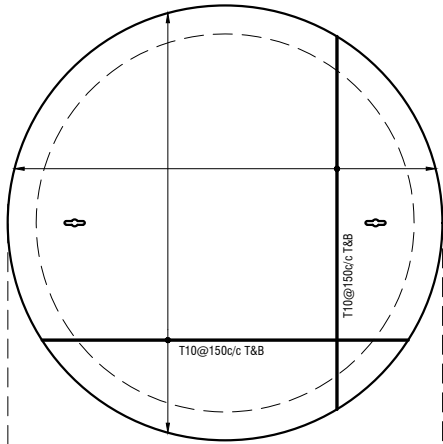
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Title: Septic Tank Detail

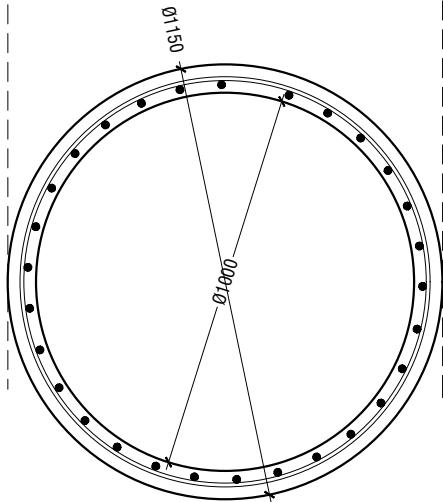
Page: Detail- 01-02

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WATER TANK WALL TOP & BOTTOM SLAB



WATER TANK WALL REINF.



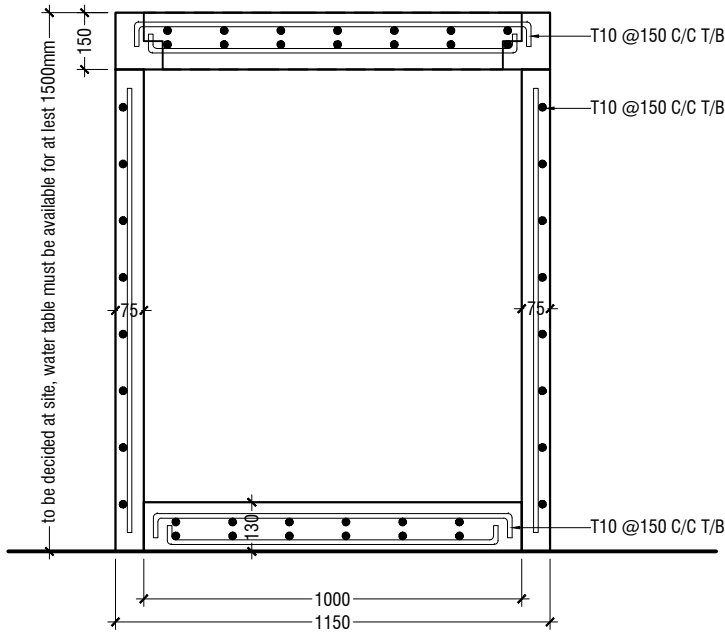
NOTE:
TO PROVIDE A NEW WELL IF THE EXISTING WELL CANNOT
CATER THE PROPOSED SCHOOL BUILDING

WATER TANK DETAILS

SCALE 1:20

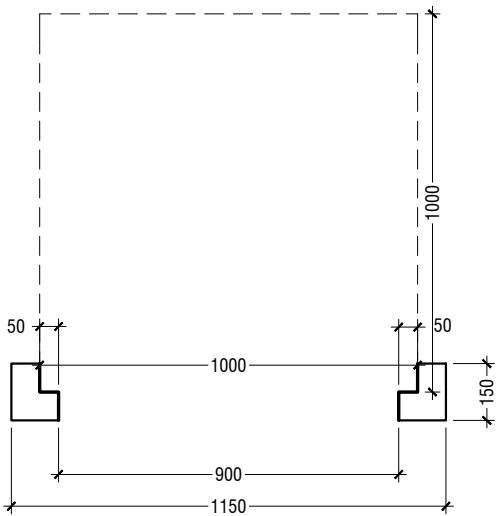


WATER TANK SECTION

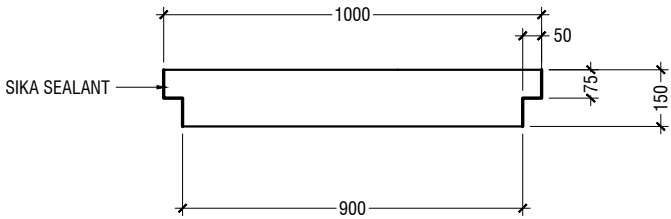


KEYHOLES (THE KEYHOLES SHALL BE
COVERED FROM A RUBBER SEALER ON TOP OF IT)

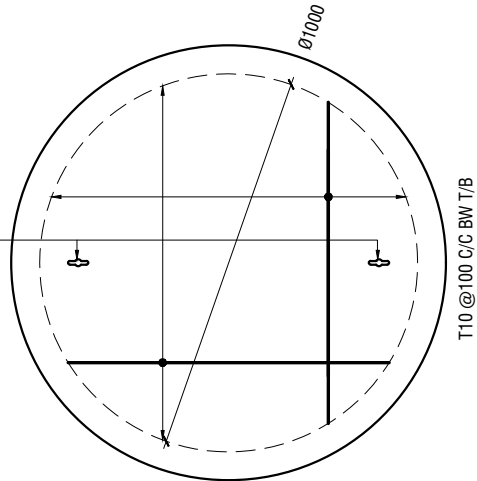
ELEVATION



SECTION



PLAN



NOTE:

- ALL CONCRETE WORKS BELOW GROUND AND AT TERRACE LEVEL TO BE TREATED WITH 'SIKA' WATERPROOFING CHEMICAL OR EQUIVALENT
- PROVIDE PROVISION FOR WATER ENTRANCE THROUGH THE BASE

WATER TANK LID DETAILS

SCALE 1:20



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Title: Ground Water Well
Detail

Page: Detail- 02-02