

Proposed 02 Classroom, Health Room & Science Lab at
Th.Omadhoo School
(02 Storey)

SERVICES DRAWINGS
Client: Ministry of Education

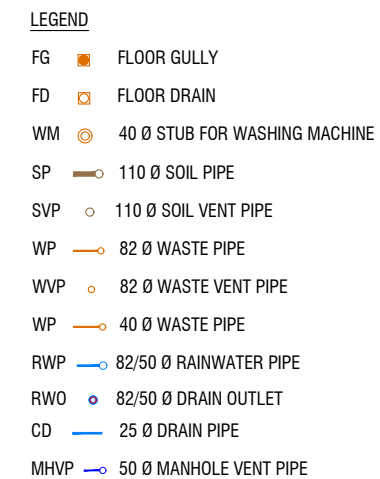


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FIRST FLOOR DRAINAGE LAYOUT



- 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

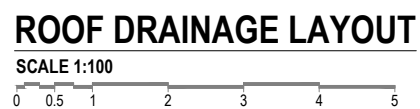
NOTE:
- ALL SOIL AND WASTE PIPES TO BE UNDER THE SLAB LEVEL.













Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)
Client: Ministry of Education

Project Number	Rev	Rev no	Date
RI/2020/006			
Date: April 2021			
Architect: Mariyam Irasha Shareef			
Engineer: Mohamed Muthalib Valeed			
Drawn by: Mariyam Leevan Jaleel			
Services: Aishath Ahmed			

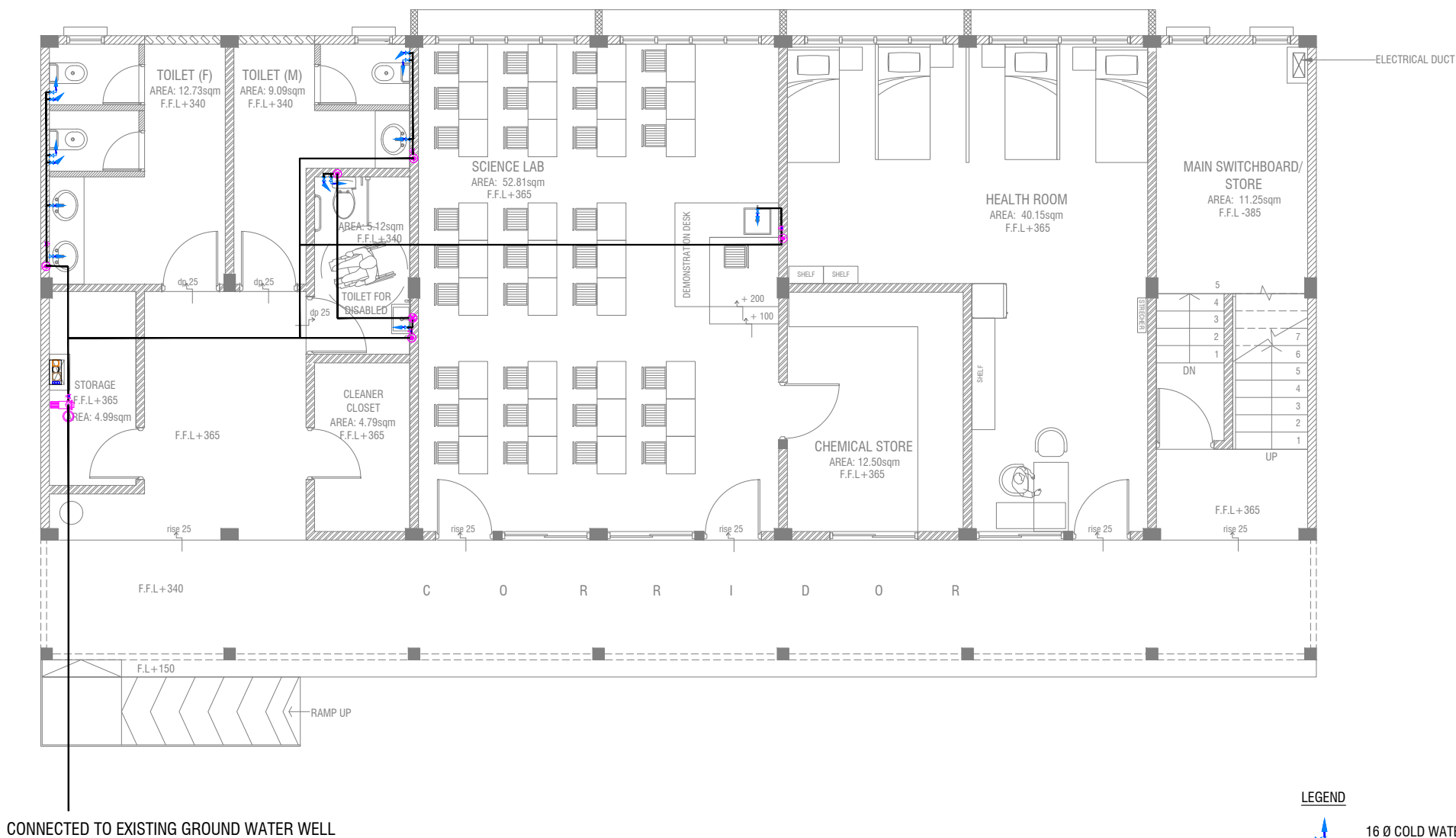


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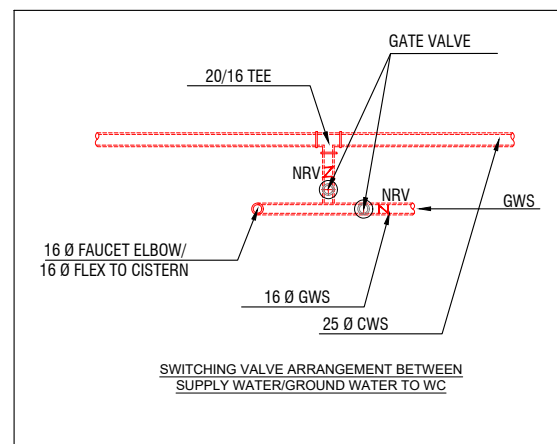
LEGEND	
FG	 FLOOR GULLY
FD	 FLOOR DRAIN
WM	 40 Ø STUB FOR WASHING MACHINE
SP	 110 Ø SOIL PIPE
SVP	 110 Ø SOIL VENT PIPE
WP	 82 Ø WASTE PIPE
WVP	 82 Ø WASTE VENT PIPE
WP	 40 Ø WASTE PIPE
RWP	 82/50 Ø RAINWATER PIPE
RWO	 82/50 Ø DRAIN OUTLET
CD	 25 Ø DRAIN PIPE
MHVP	 50 Ø MANHOLE VENT PIPE





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

ThOmadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)
Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Mariyam Irshad Shareef

Engineer: Mohamed Muthalib Waleed

Drawn by: Mariyam Leevan Jaleel

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

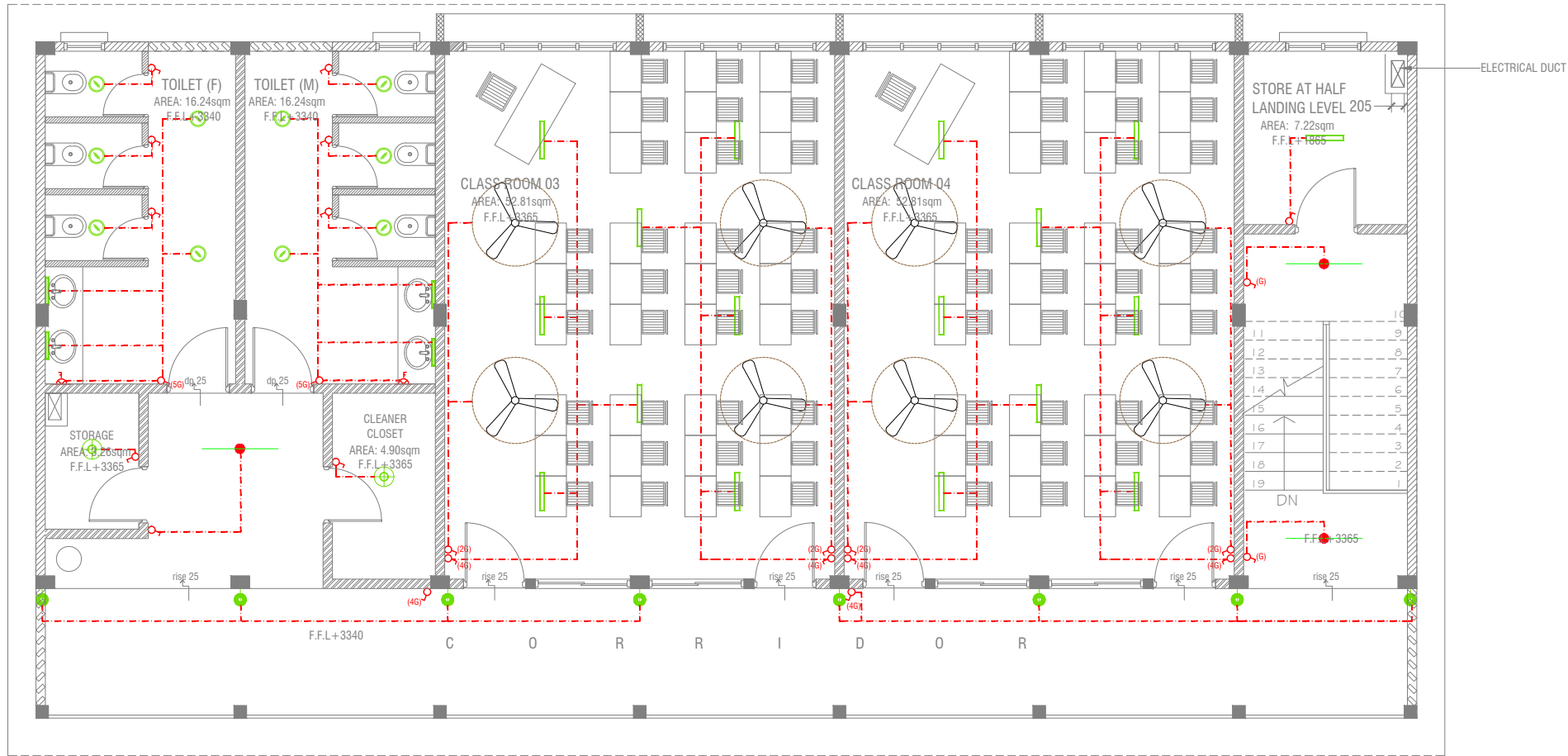
Th Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

Project Number	Rev	Rev no	Date
RI/2020/006	01	1	2020/04/01
Architect			Mariyam Irasha Shareef
Engineer			Mohamed Muthalib Waleed
Drawn by			Mariyam Leevan Jaleel
Services			Aishath Ahmed

FIRST FLOOR LIGHTING LAYOUT

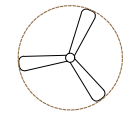
SCALE 1:100



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

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Mariyam Irasha Shareef

Engineer: Mohamed Muthalib Valeed

Drawn by: Mariyam Leevan Jaleel

Services: Aishath Ahmed

Rev no

Date



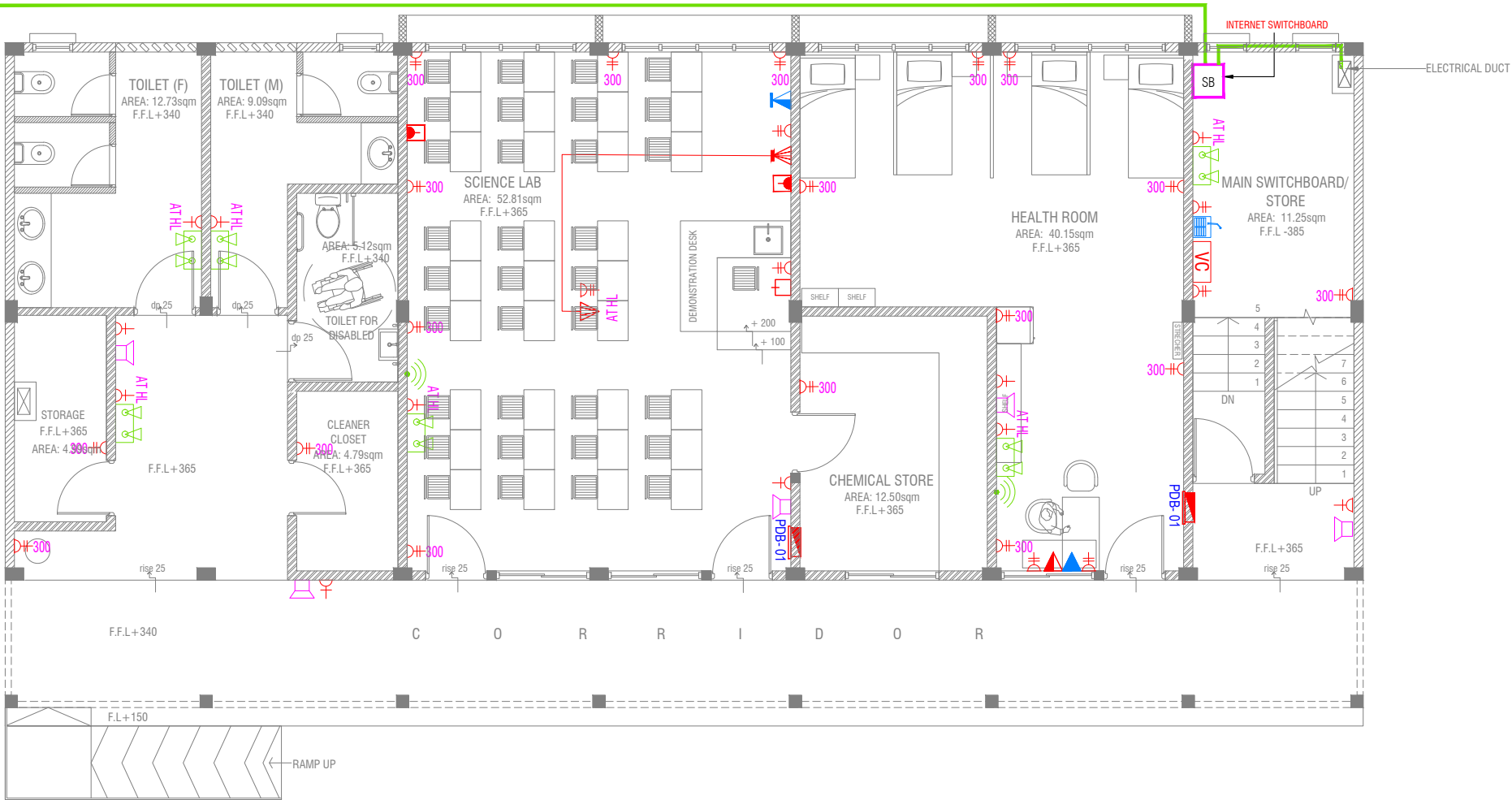
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Title: First Floor
Lighting Layout

Page: EL 02-02

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

- ▲ COMPUTER NETWORK OUTLET (RJ 45 CONNECTORS)
- ▲ 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
- 🔌 15A SWITCHED/ SPUR UNIT @ H.L.
- 🔌 TWO GANG / TV SOCKET

- 🔊 PAGING MIC
- VC VOLUME CONTROLLER
- EM 📶 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)

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

Project Number	Rev	Date
RI/2020/006		
Date: April 2021		
Architect: Mariyam Irasha Shareef		
Engineer: Mohamed Munthaliq Waleed		
Drawn by: Mariyam Leevan Jaleel		
Services: Aishath Ahmed		



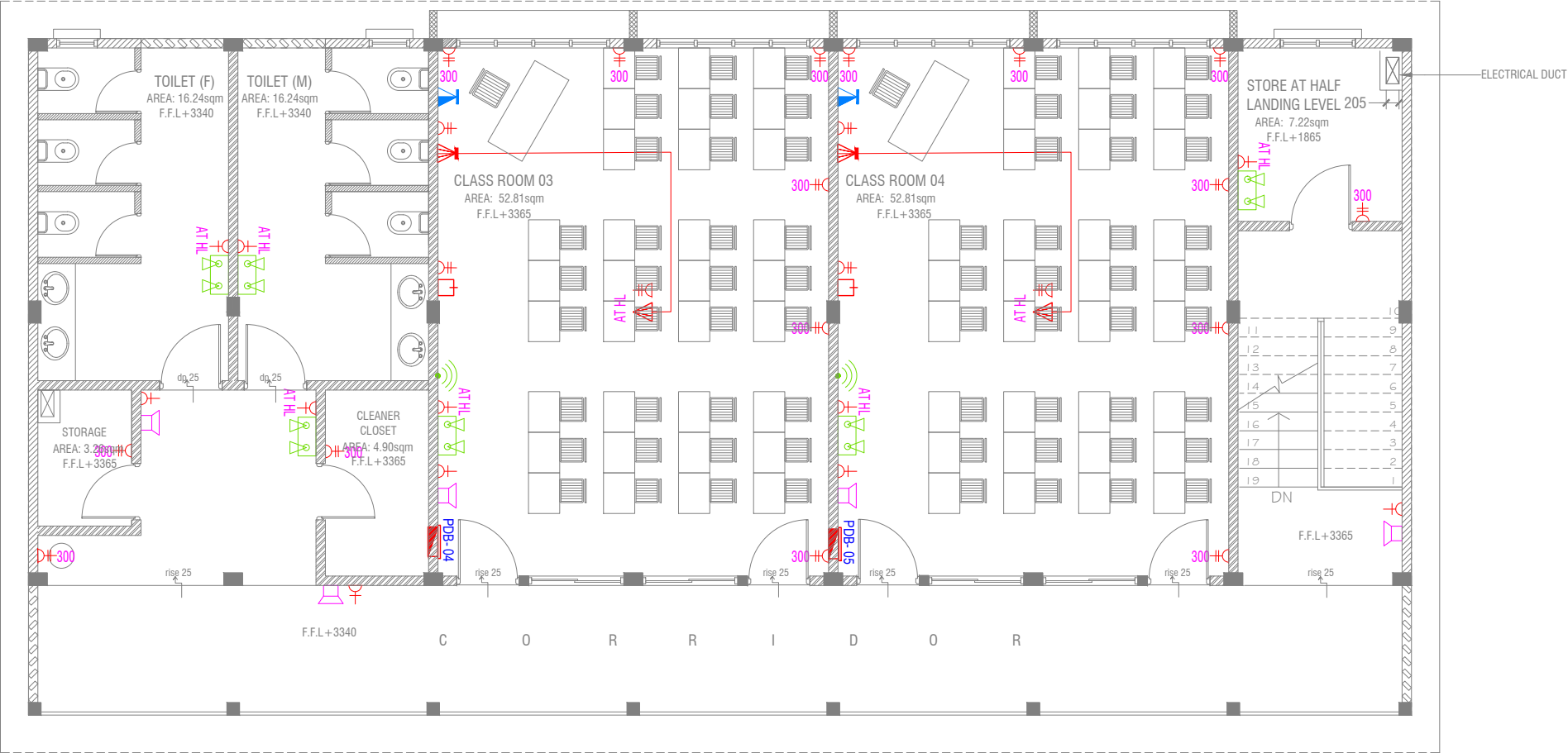
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Title: Ground Floor Power Layout

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

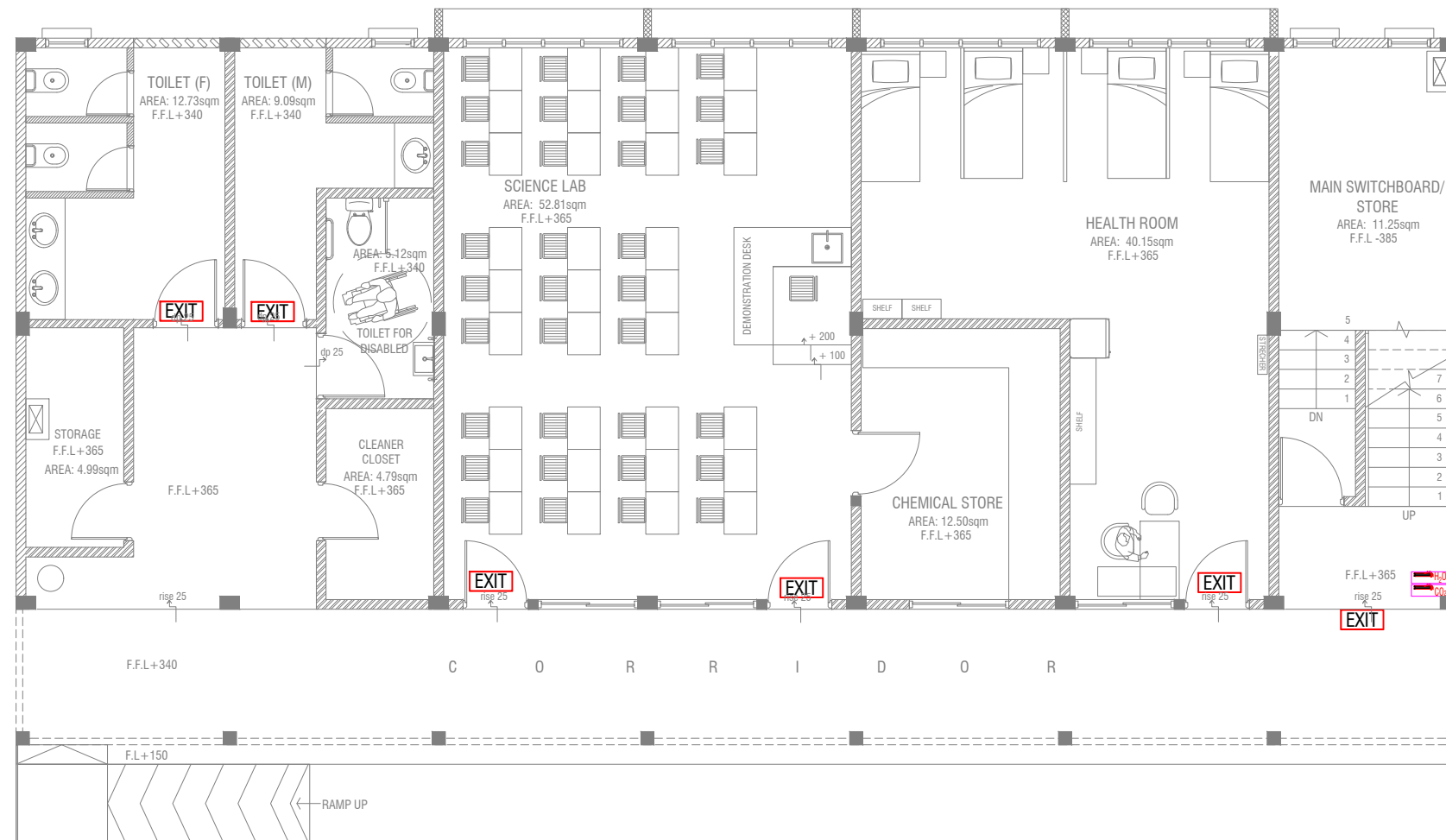
LEGEND

- 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

- 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

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/BACKET SHALL BE HOT DIPPED GALVANIZED TO 100MM
4. ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

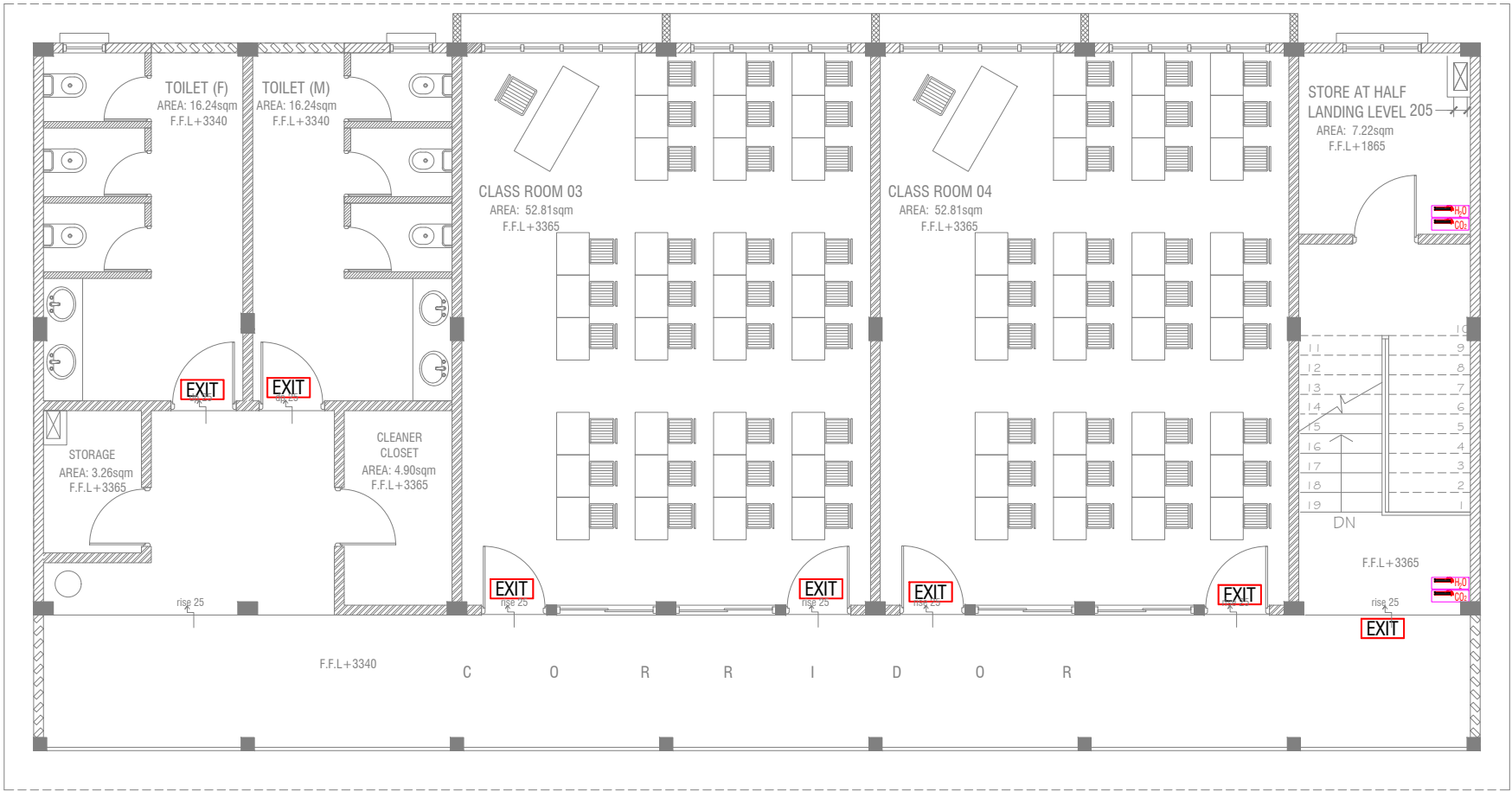
-IF THE INSTALLATION OF CEILING IS CARRIED OUT LOWER THAN BEAM BOTTOM ,SMOKE DETECTORS SHOULD BE PLACED AS INDICATED ON THE DRAWING.

-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



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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Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)
Client: Ministry of Education

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



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GROUND FLOOR ACV LAYOUT



LEGEND

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

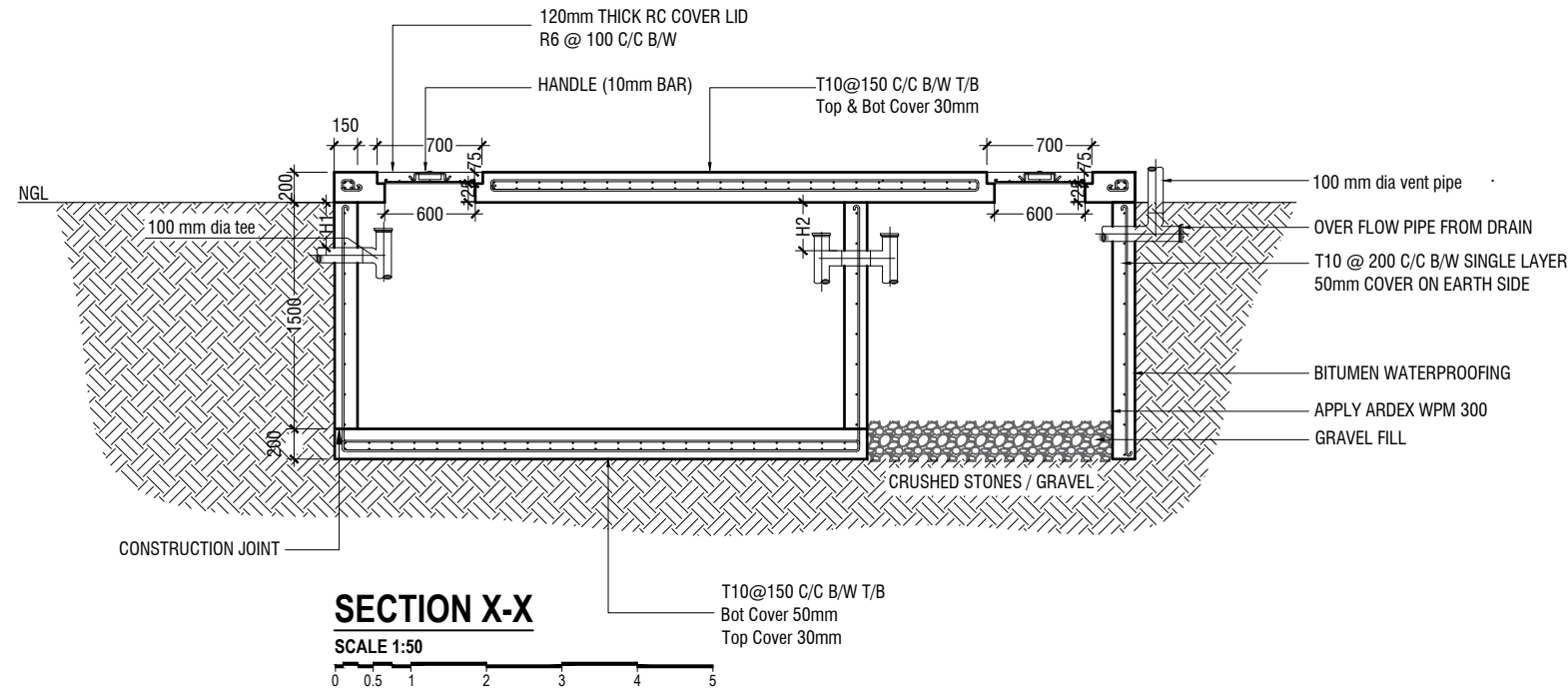
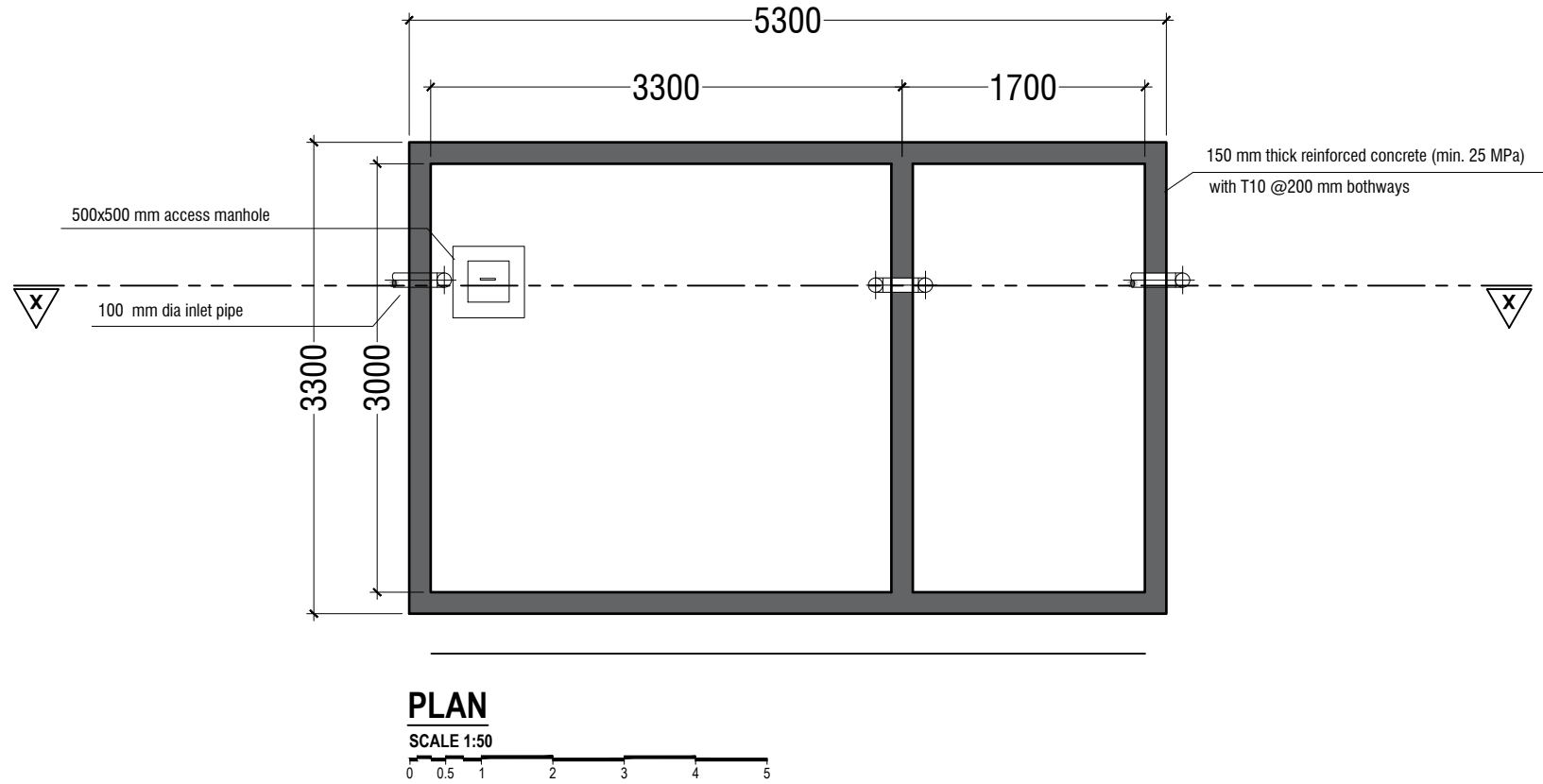
NOTE:
- ALL CONDENSING PIPES TO BE AT GROUND LEVEL
DISCHARGED THROUGH A PERFORATED COWL OR TO A SOAK PIT



Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

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



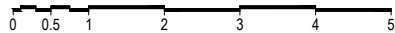
NOTE:

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



Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)
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Title: Septic Tank Detail

Page: Detail- 01-01

Rev no	Date
1	11/04/2021
2	11/04/2021
3	11/04/2021
4	11/04/2021
5	11/04/2021

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