

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

***SERVICES DRAWINGS***  
Client: Ministry of Education



RIYAN PRIVATE LIMITED

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

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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

**NOTE:**  
 - ALL RAINWATER PIPES TO BE AT GROUND LEVEL DISCHARGED THROUGH A PERFORATED COWL OR TO A SOAK PIT  
 - ALL SOIL AND WASTE PIPES TO BE AT GROUND LEVEL, UNDER THE SLAB.

## GROUND FLOOR DRAINAGE LAYOUT

SCALE 1:100



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

Client: Ministry of Education

Rev no	Date
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5	

Project Number: RI/2020/006

Date: April 2021

Architect: Mariyam Irasha Shareef

Engineer: Mohamed Muthalib Waleed

Drawn by: Mariyam Leevan Jaleel

Services: Aishath Ahmed

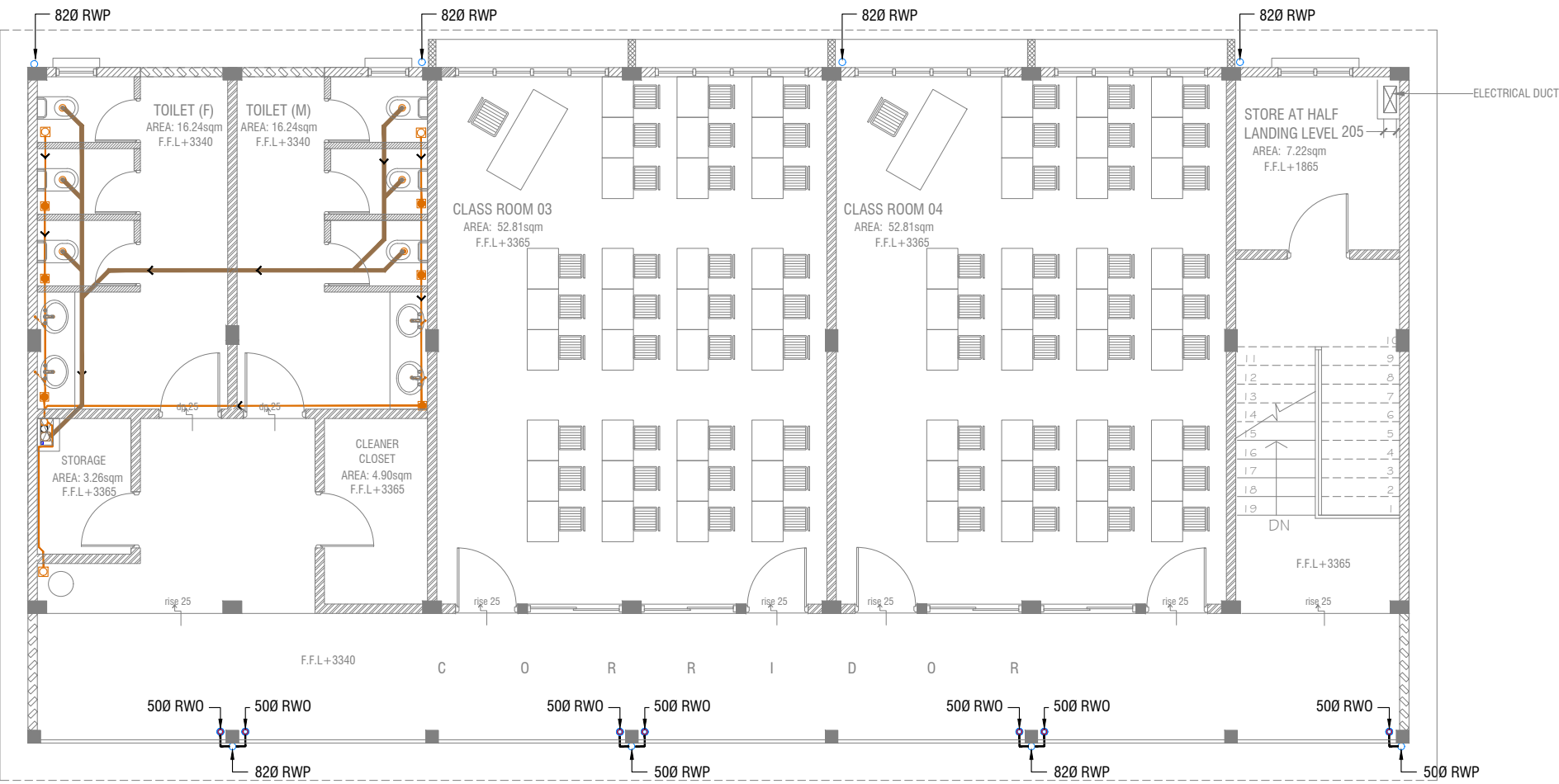
Interior: -

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

Title: Ground Floor  
 Drainage Layout

Page: DR 01-03



# FIRST FLOOR DRAINAGE LAYOUT

SCALE 1:100



## 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: RI/2020/006

Date: April 2021

Architect: Mariyam Irasha Shareef

Engineer: Mohamed Muthalib Waleed

Drawn by: Mariyam Leevan Jaleel

Services: Aishath Ahmed

Interior: -

Rev no

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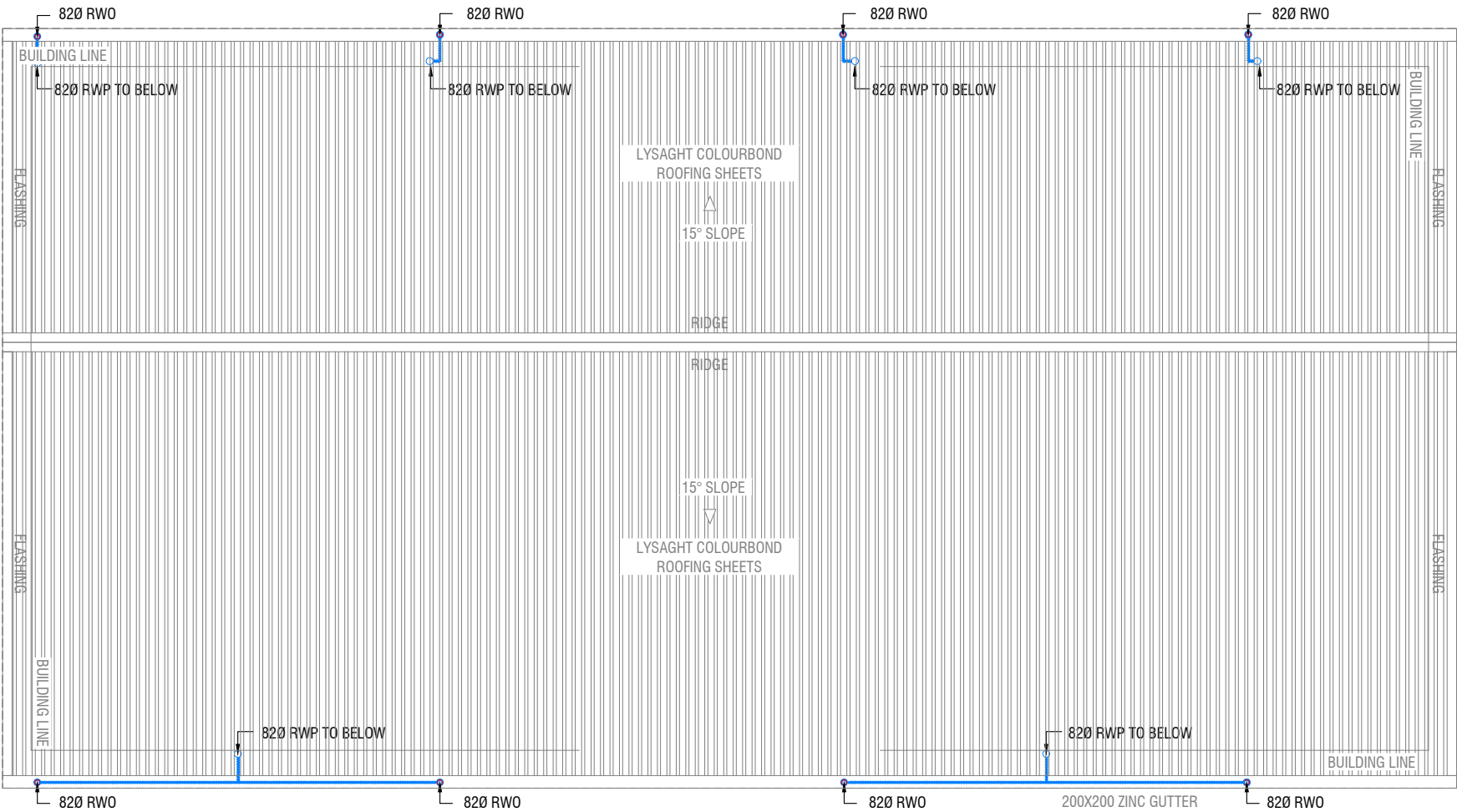
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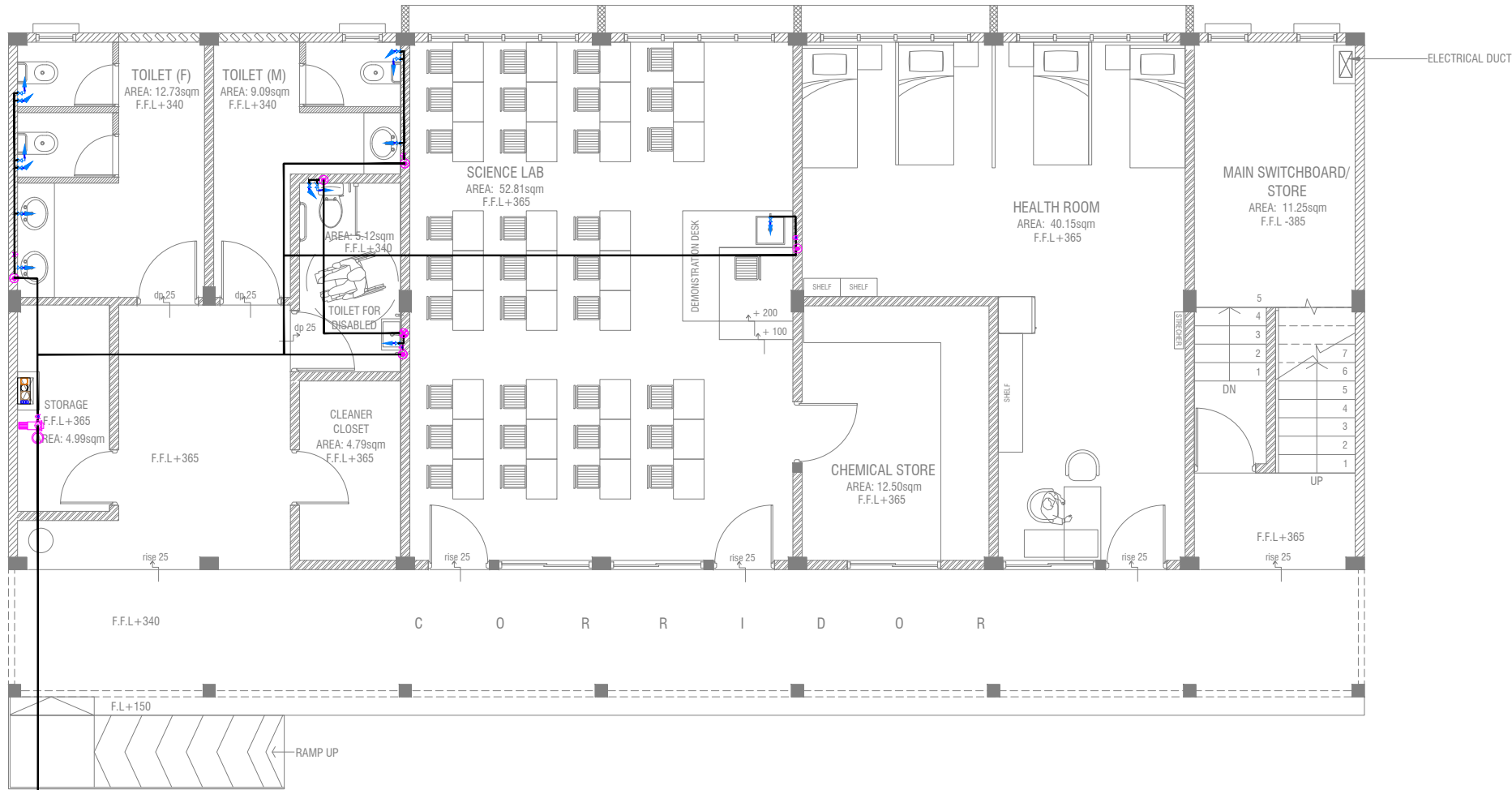
ROOF DRAINAGE LAYOUT



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

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

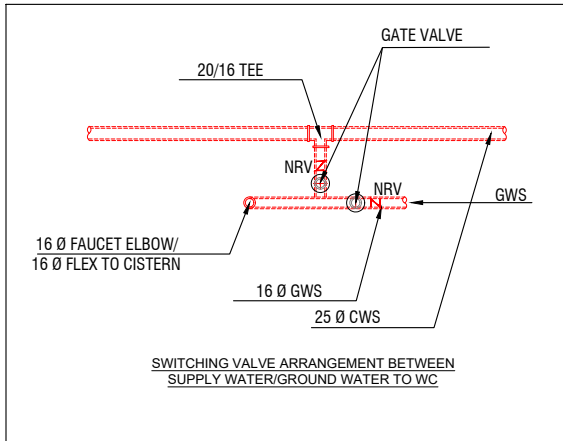




CONNECTED TO EXISTING GROUND WATER WELL

## 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

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 Muhtalib Waleed

Drawn by: Mariyam Leevan Jaleel

Services: Aishath Ahmed

Interior: -

Rev no

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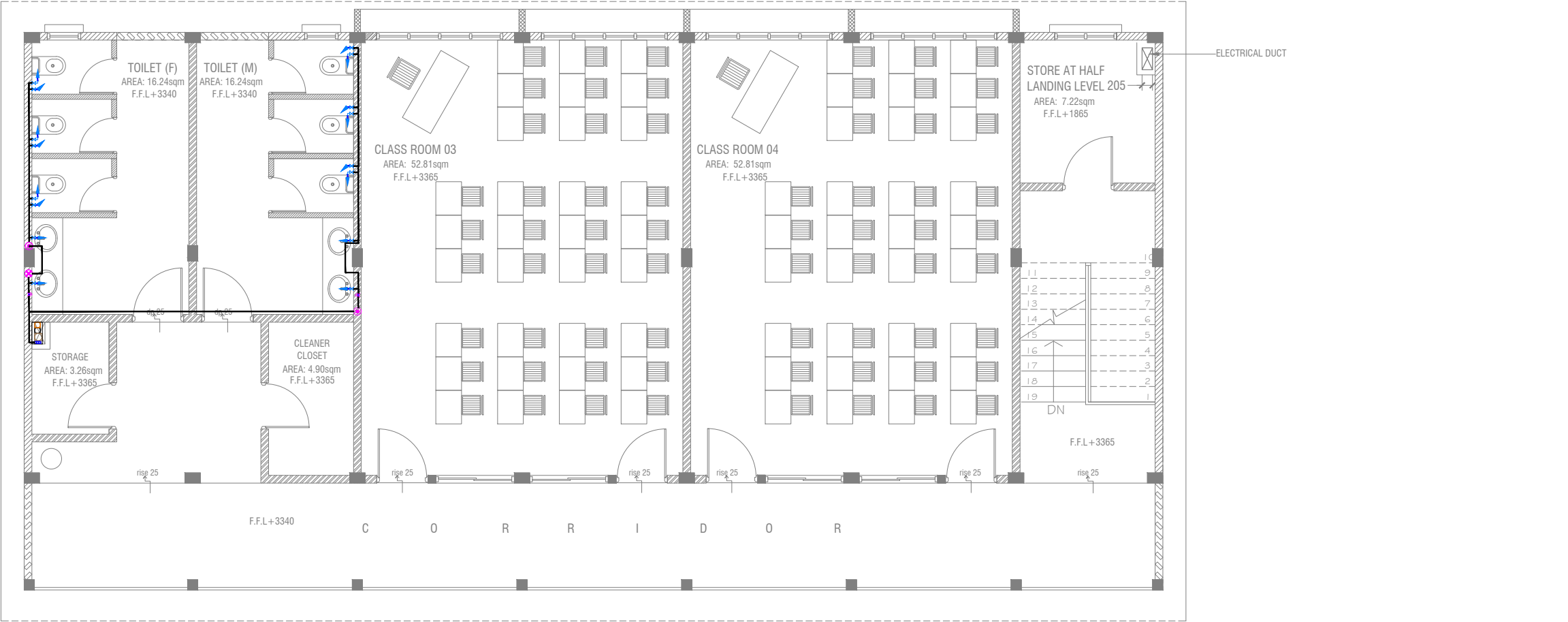
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FIRST FLOOR PLUMBING LAYOUT

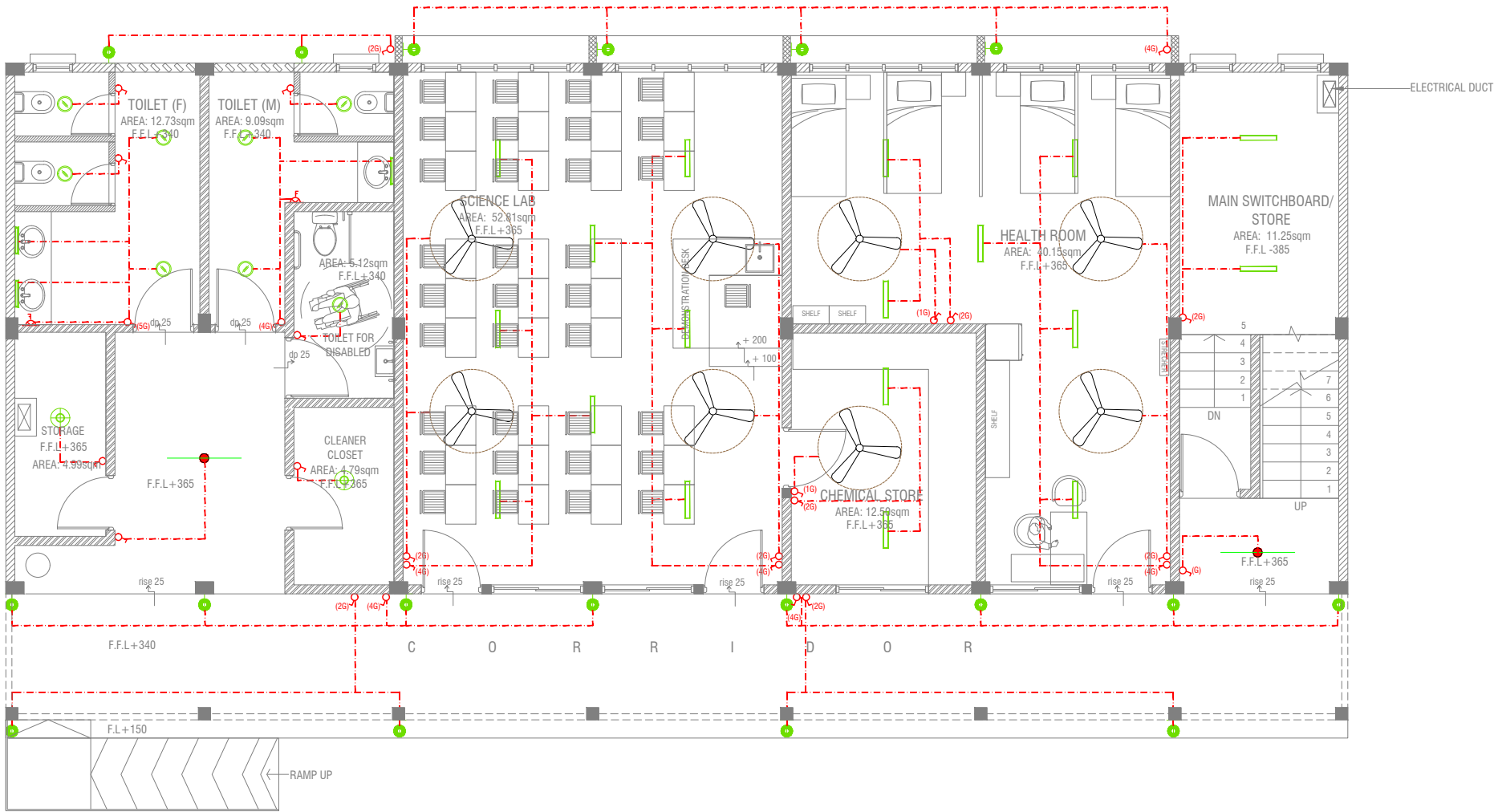


- LEGEND
- 16 Ø COLD WATER SUPPLY TO CISTERN
  - 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
  - 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
  - GV GATE VALVE
  - 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
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  - RISE IN WALL
  - DROP IN WALL
  - CWS COLD 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: RI/2020/006	Rev no	Date
Date: April 2021	1	
Architect: Mariyam Irasha Shareef	2	
Engineer: Mohamed Muthalib Waleed	3	
Drawn by: Mariyam Leevan Jaleel	4	
Services: Aishath Ahmed	5	
Interior: -	6	

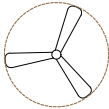
GROUND FLOOR LIGHTING LAYOUT



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

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 Muhtalib Walleed

Drawn by: Mariyam Leevan Jaleel

Services: Aishath Ahmed

Interior: -

Date

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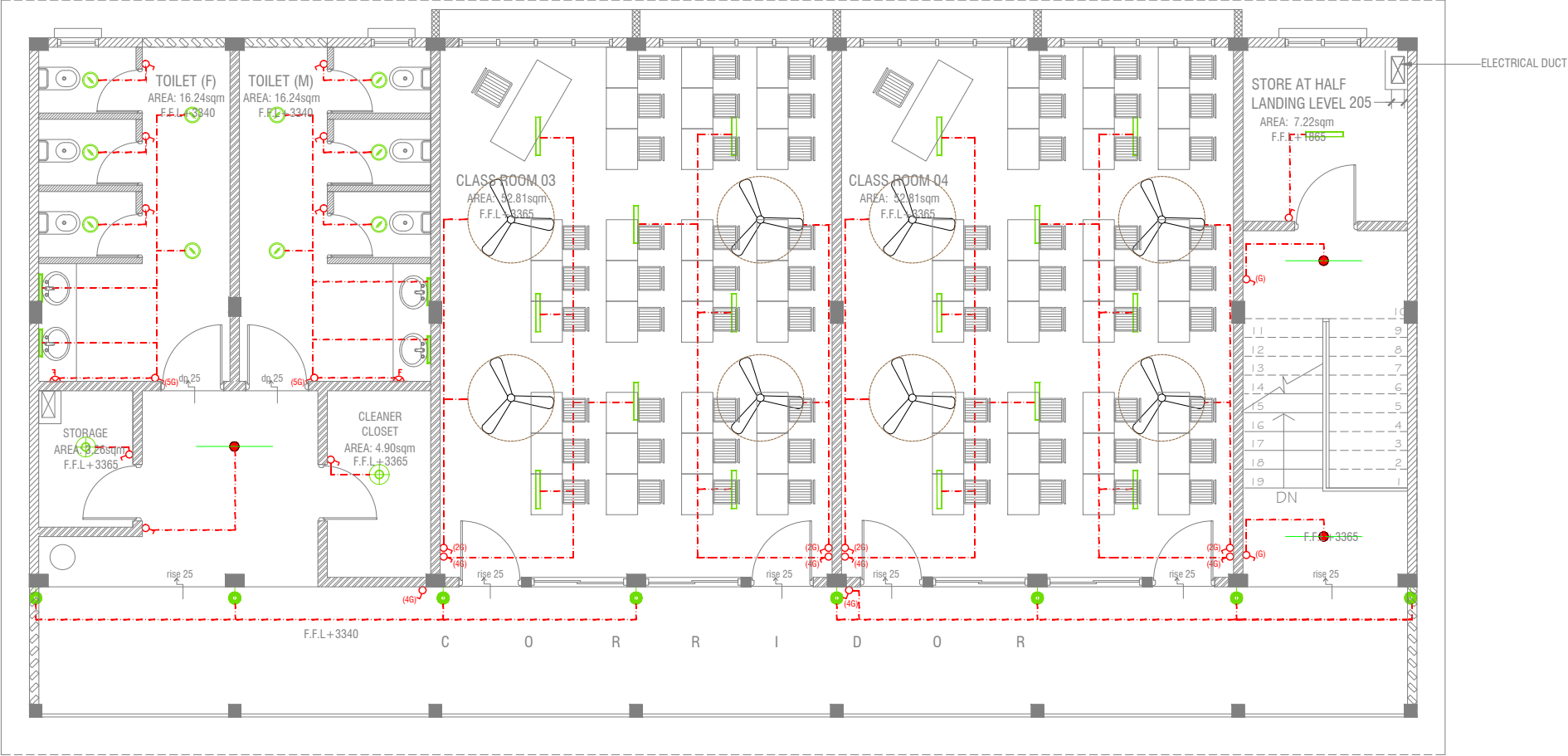
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3rd floor, H. Azum, Ameenemagu, Male'

Title: Ground Floor  
Lighting Layout

Page: EL 01-02





# 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
- EXHAUST

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

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 Muththalib Waleed

Drawn by: Mariyam Leevan Jaleel

Services: Aishath Ahmed

Interior: -

Rev no

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PVC DUCT FOR DATA CABLE LEAD IN BELOW GR.SLAB



**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 CHECK IF THE EXISTING MAIN PANEL BOARD CAN CATER THE PROPOSED BUILDING, IF NOT, TO SUPPLY AND INSTALL PANEL BOARD WITH kWh METER. WIRING AND CONNECTION TO MAIN PANEL BOARD FROM MAIN ELECTRICAL NETWORK TO BE DECIDED ON SITE

**GROUND FLOOR POWER LAYOUT**

SCALE 1:100



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 Waleed

Drawn by: Mariyam Leevan Jaleel

Services: Aishath Ahmed

Interior: -

Date

Rev no

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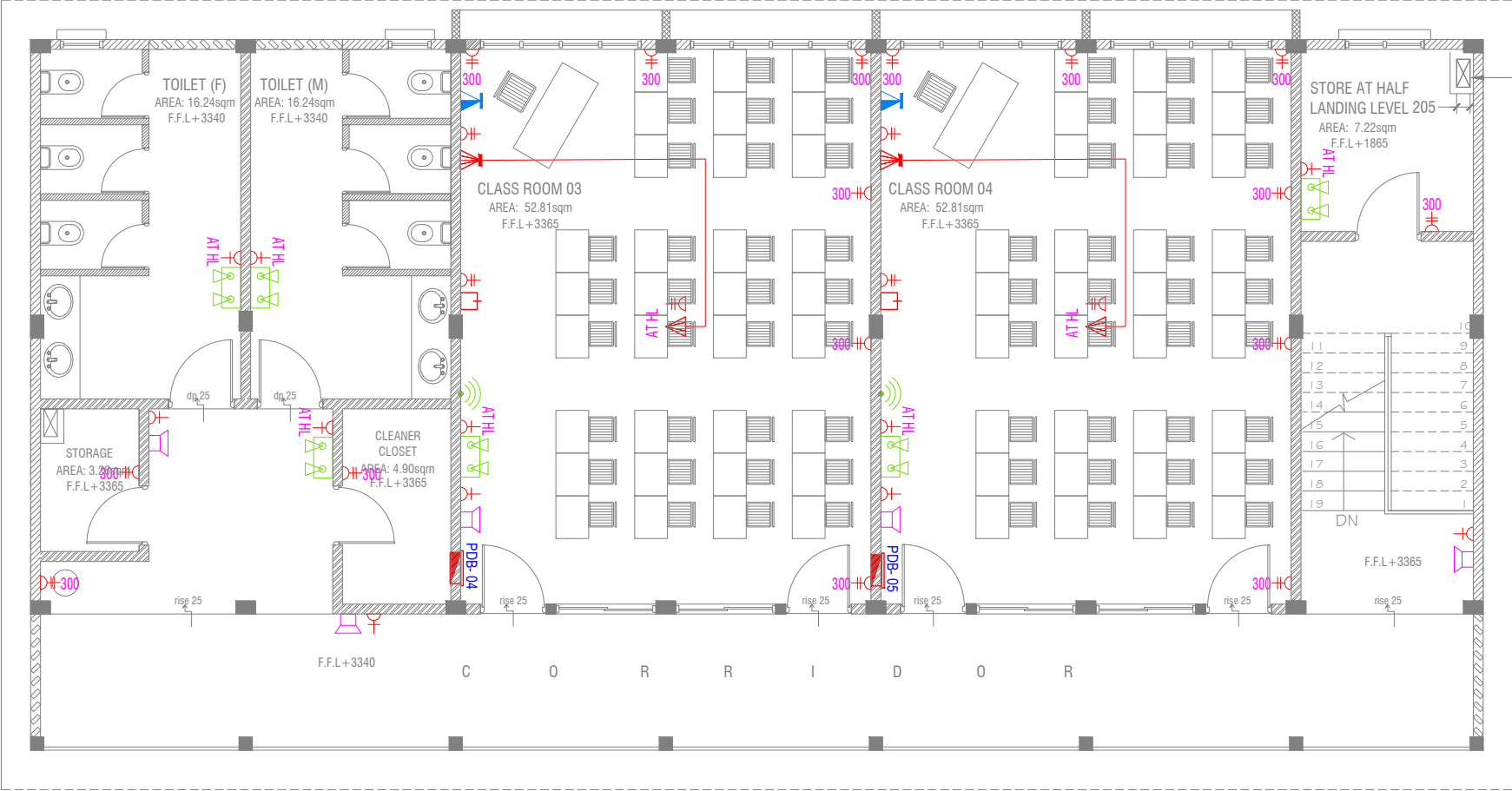
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ELECTRICAL DUCT

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

TO CHECK IF THE EXISTING MAIN PANEL BOARD CAN CATER THE PROPOSED BUILDING, IF NOT, TO SUPPLY AND INSTALL PANEL BOARD WITH KWh METER. WIRING AND CONNECTION TO MAIN PANEL BOARD FROM MAIN ELECTRICAL NETWORK TO BE DECIDED ON SITE

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 Waleed

Drawn by: Mariyam Leevan Jaleel

Services: Aishath Ahmed

Interior: -

Date

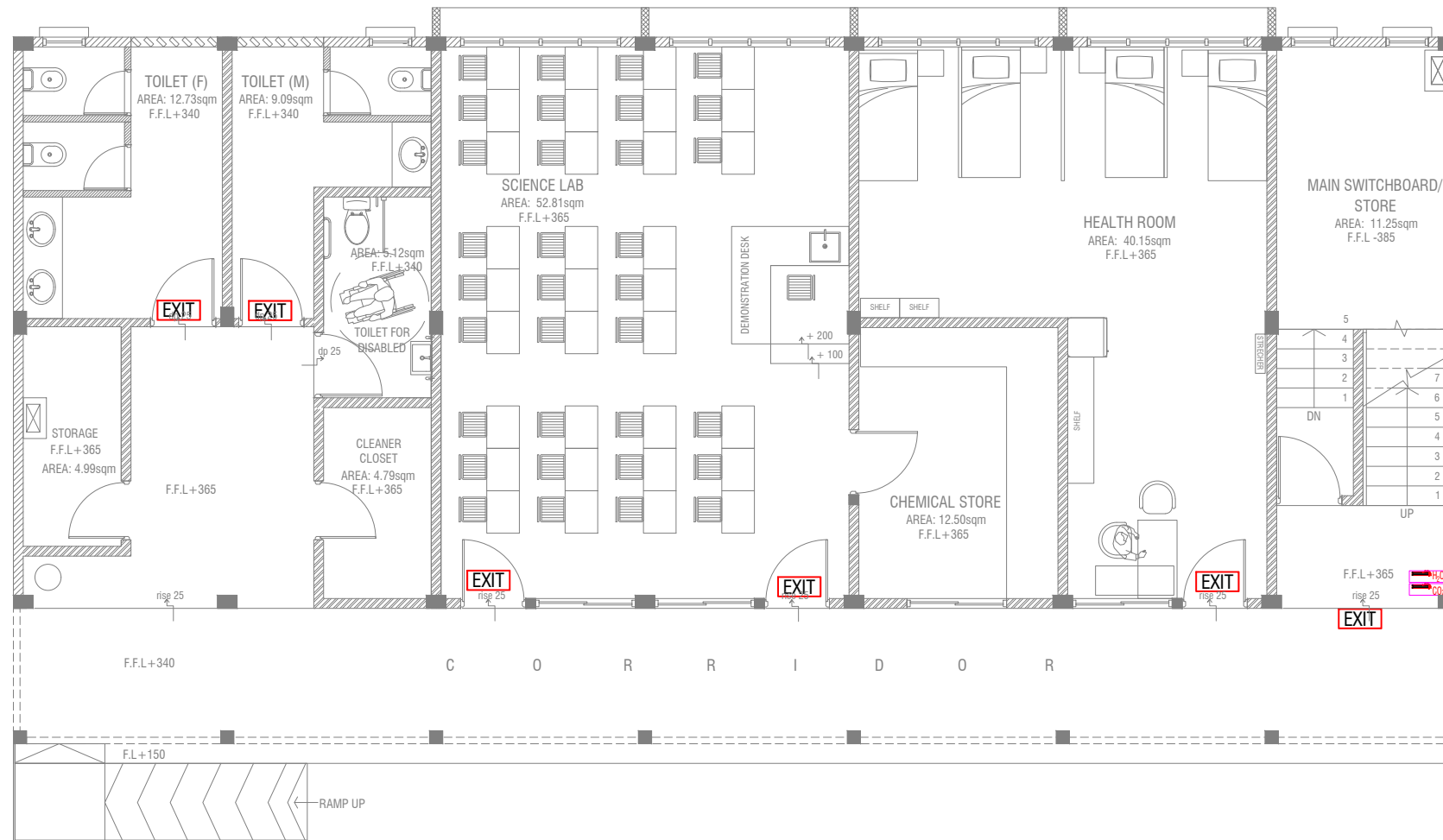
Rev no

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Title: First Floor  
Power Layout

Page: EP 02-02




## GROUND FLOOR FDP LAYOUT

**SCALE 1:100**



### LEGEND

**EXIT**      EXIT SIGN

 CO<sub>2</sub> EXTINGUISHER (LOAD: 2KG) IN  
POLYCARBONATE ENCLOSURE(TYP.)

 H<sub>2</sub>O 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



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FDP Layout

Page: FDP 01-02

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 : Mariv

**Architect :** Mariyam Irasha Shareef  
**Engineer :** Mohamed Muththalib Waleed

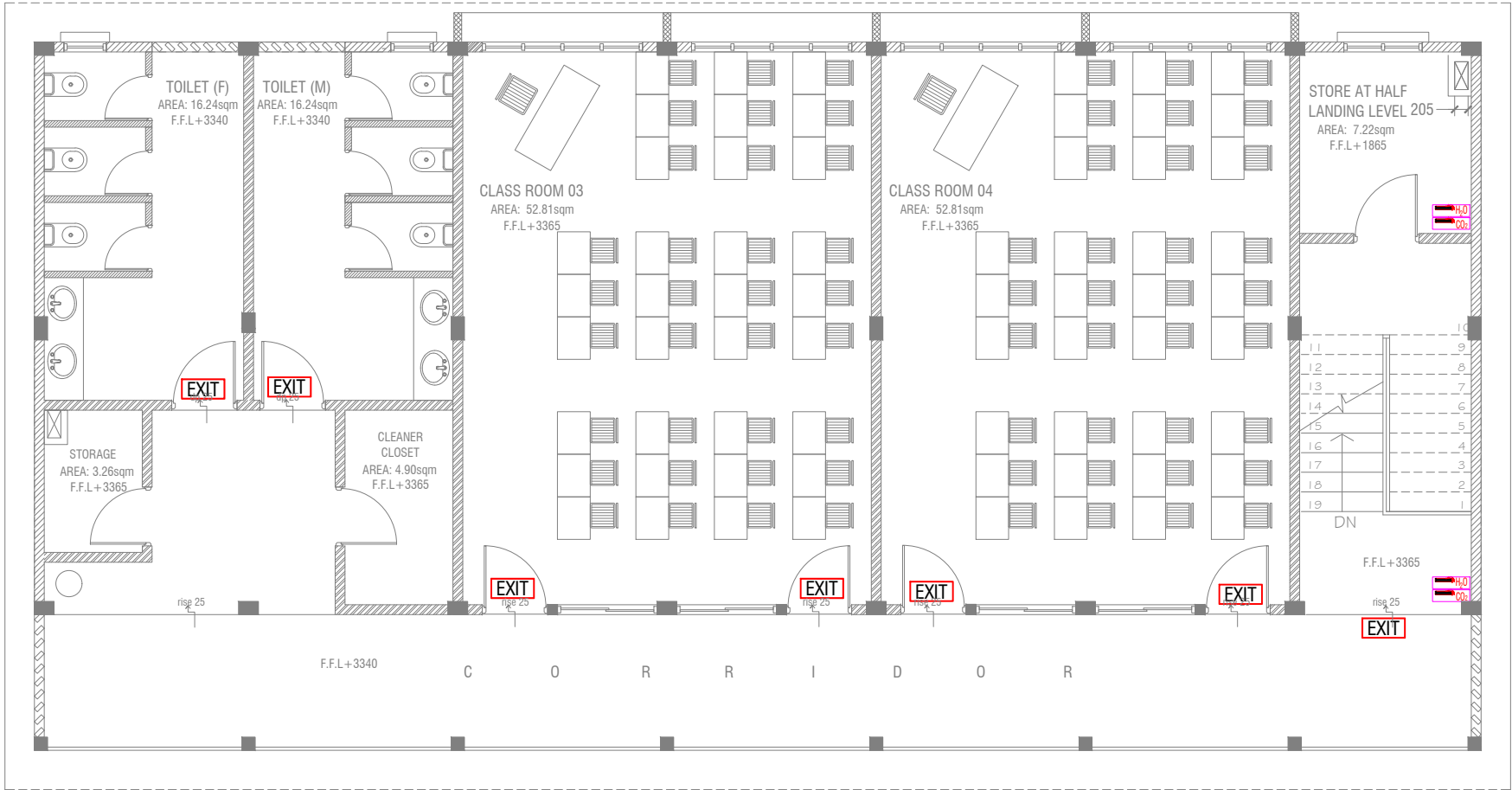
Engineer : Mohamed Muthalib w  
 Drawn by : Mariyam Leevan Jaleel  
 Services : Aishath Ahmed

Services : A  
Interior : -




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FIRST FLOOR FDP LAYOUT

SCALE 1:100



LEGEND

-  EXIT SIGN
-  CO<sub>2</sub> EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
-  H<sub>2</sub>O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

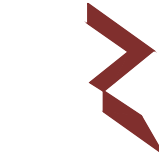
ALL FIRE CABLES AND CONDUITS SHOULD BE FIRE RETARDANT LOW SMOKE (FRLS) TYPE.

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

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



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FDP Layout  
Page: FDP 02-02

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

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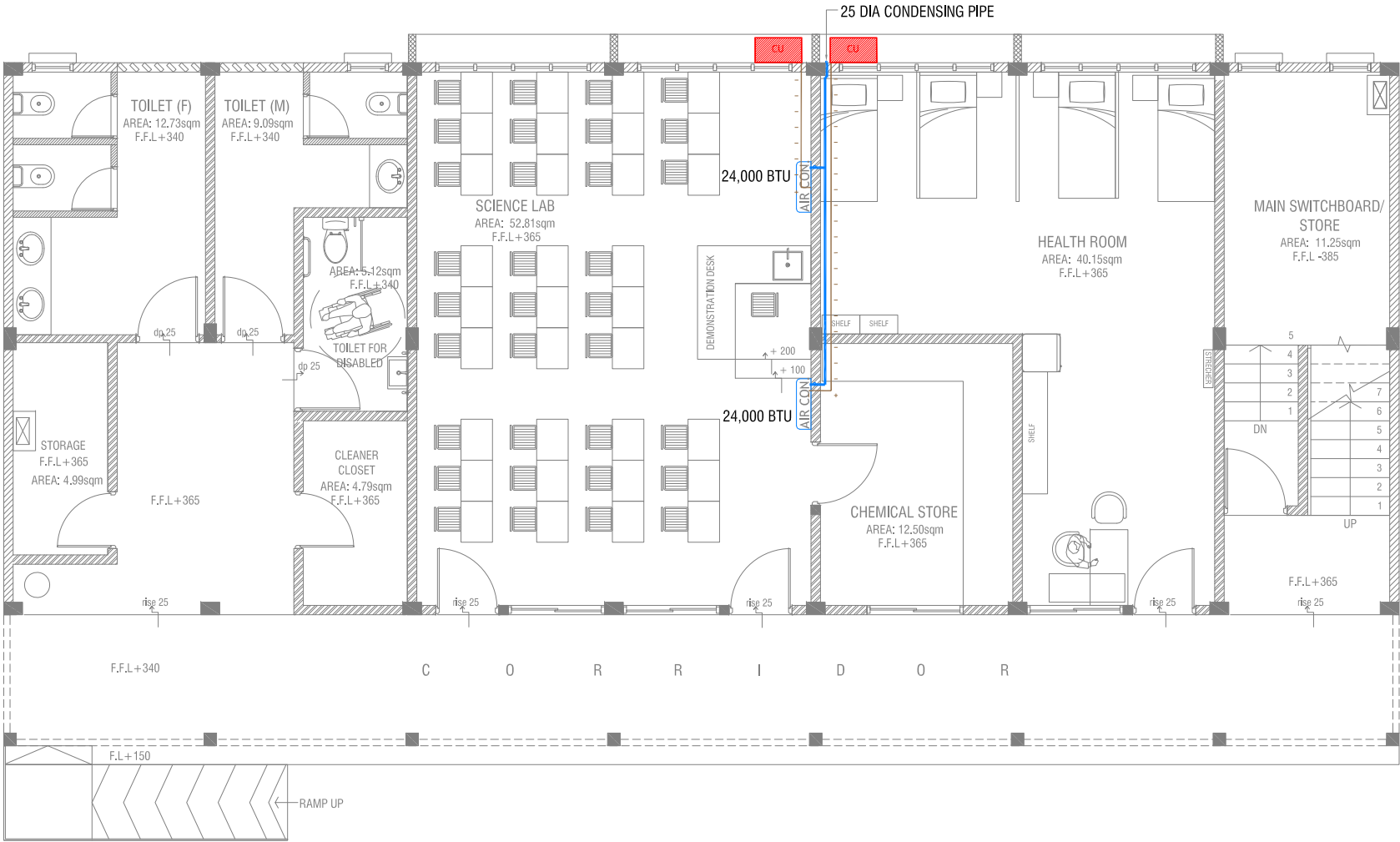
GROUND FLOOR ACV LAYOUT



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 : Madiyam Irasha Shareef

Engineer : Mohamed Muththalib Waleed

Drawn by : Madiyam Leevan Jaleel

Services : Alshah Ahmed

Interior : -

Rev no	Date
-	-
-	-
-	-
-	-



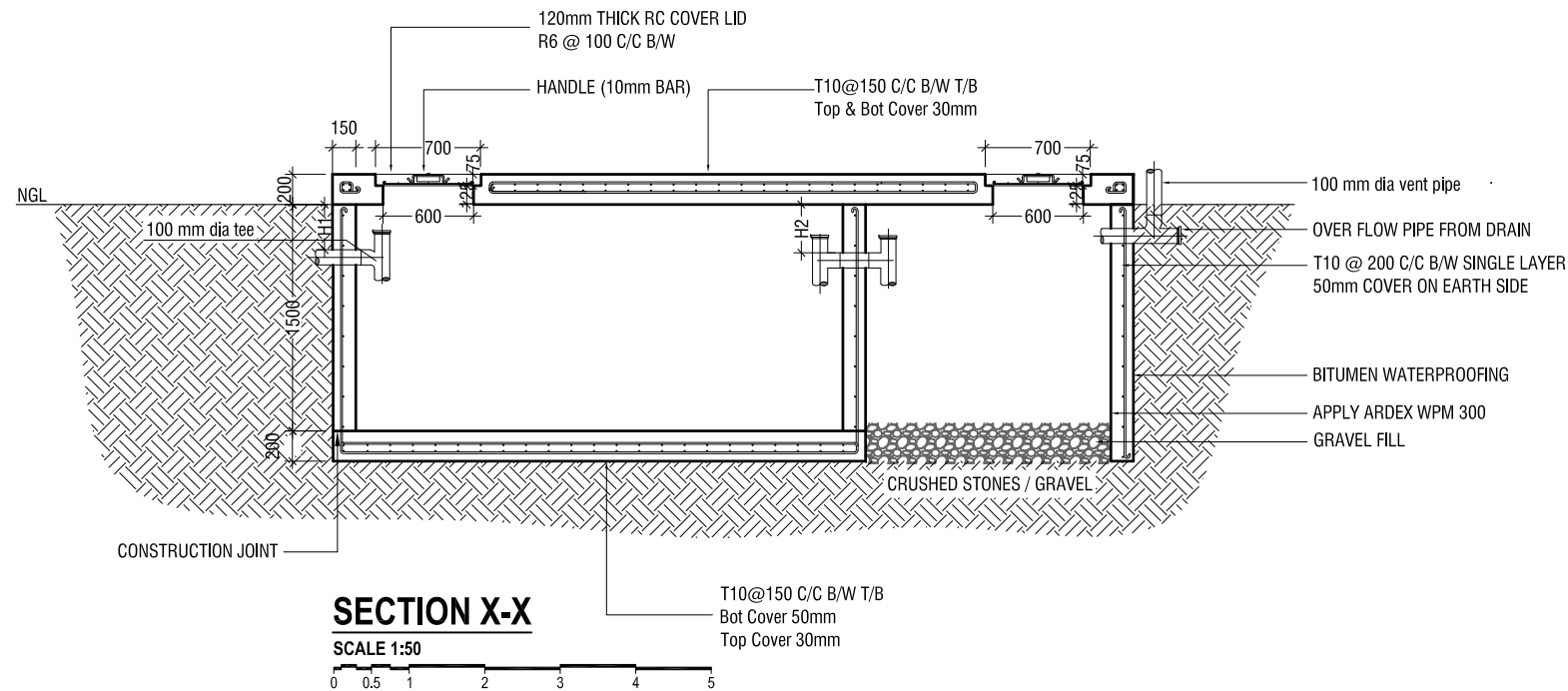
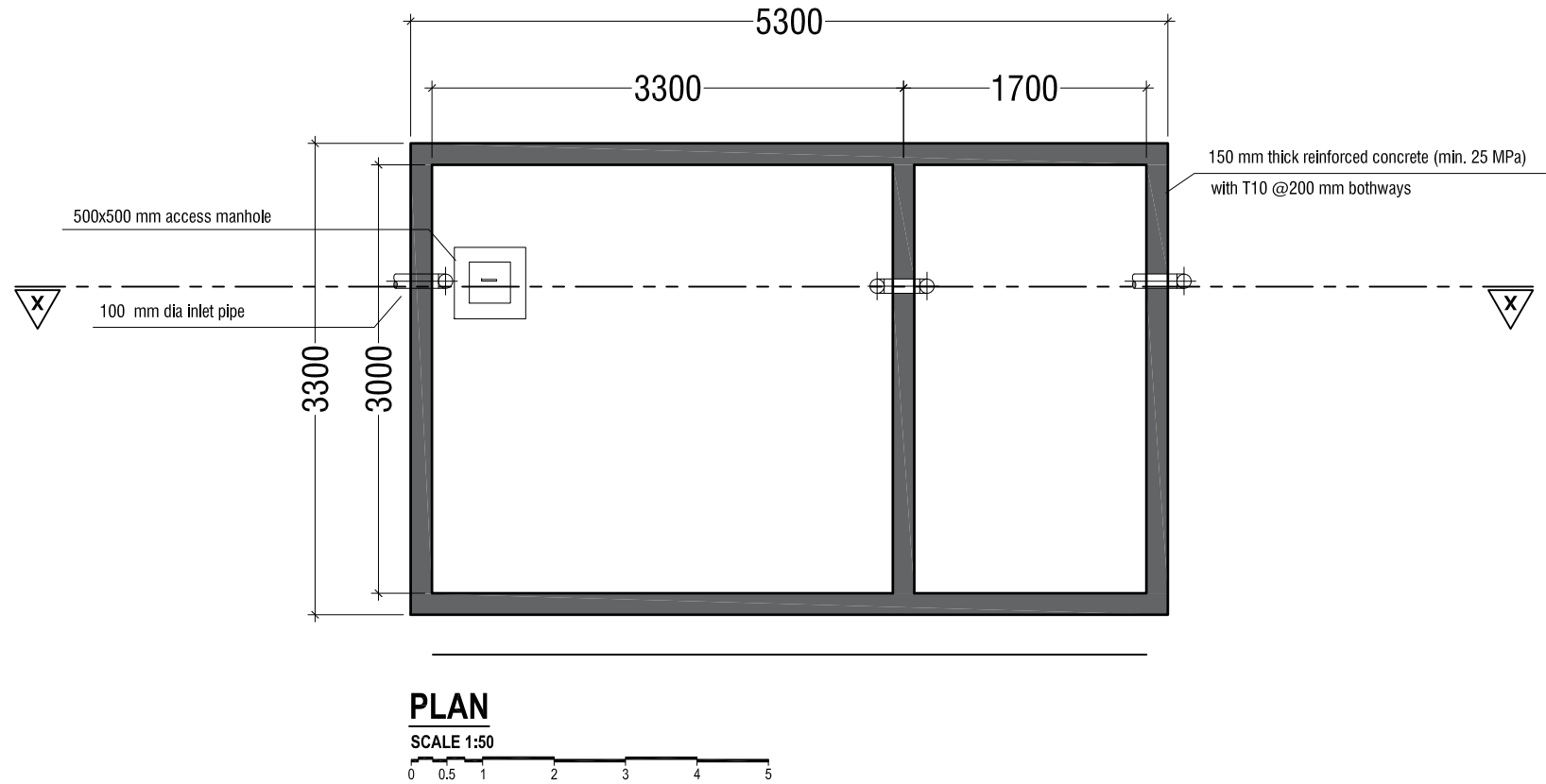
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ACV Layout

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## SEPTIC TANK DETAIL

SCALE 1:50

0 0.5 1 2 3 4 5

### 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

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	10/04/2021
2	10/04/2021
3	10/04/2021
4	10/04/2021
5	10/04/2021

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

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