

Proposed 10 Classroom at
Th.Gaadhiffushi School
(03 Storey)

SERVICES DRAWINGS
Client: Ministry of Education



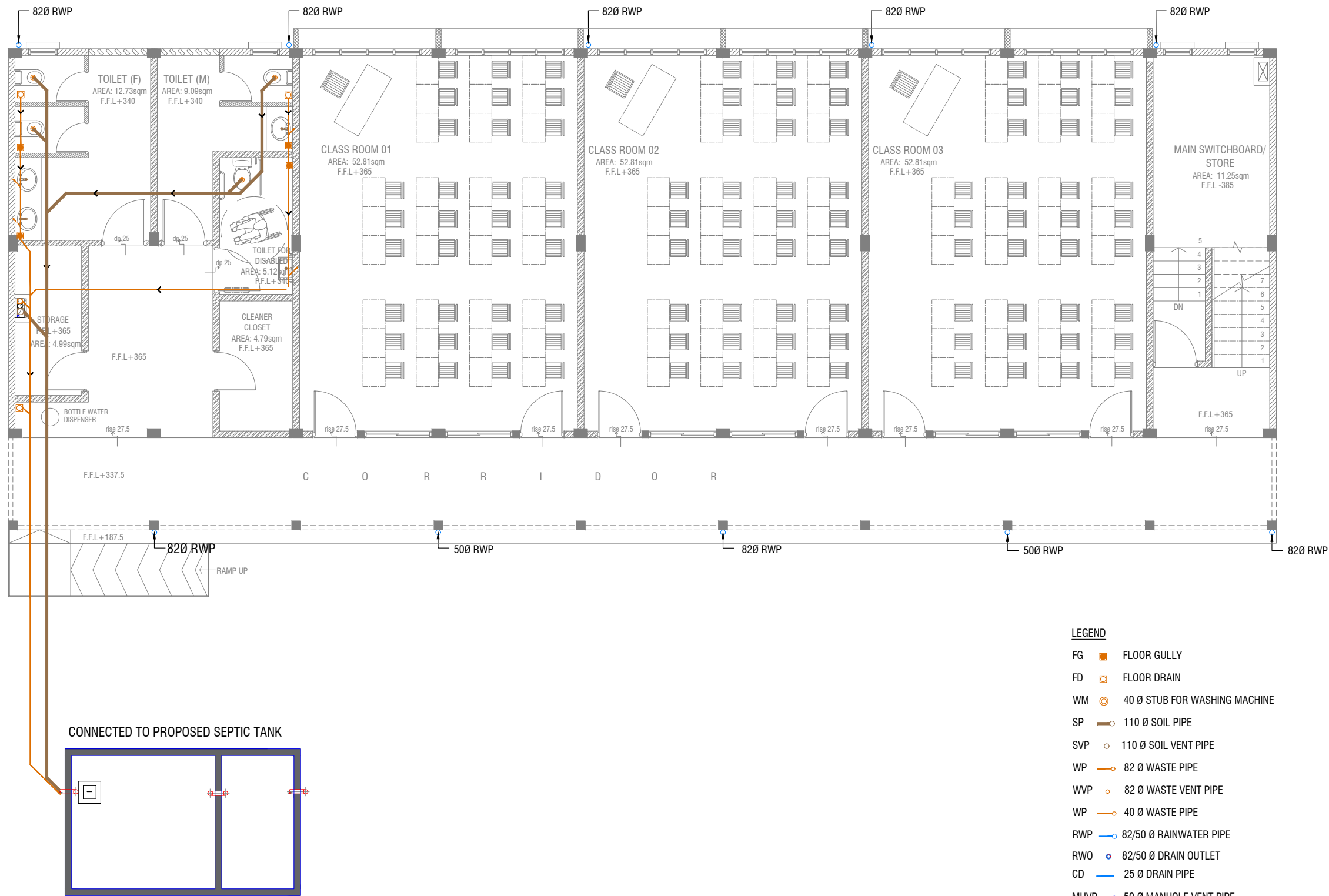
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3rd floor, H. Azum, Arneeneemagu, Male'

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GROUND FLOOR DRAINAGE LAYOUT

SCALE 1:100



Th Gaadhiffushi School 10 Classroom Block (3 story)
Client: Ministry of Education

Project Number: RI/2020/006

Date: January 2021

Architect: Maryam Irasha Shareef
Engineer: Mohamed Muhtalib Waleed
Drawn by: Maryam Leevan Jaleel
Services: Aishath Ahmed

Rev no	Date
1	
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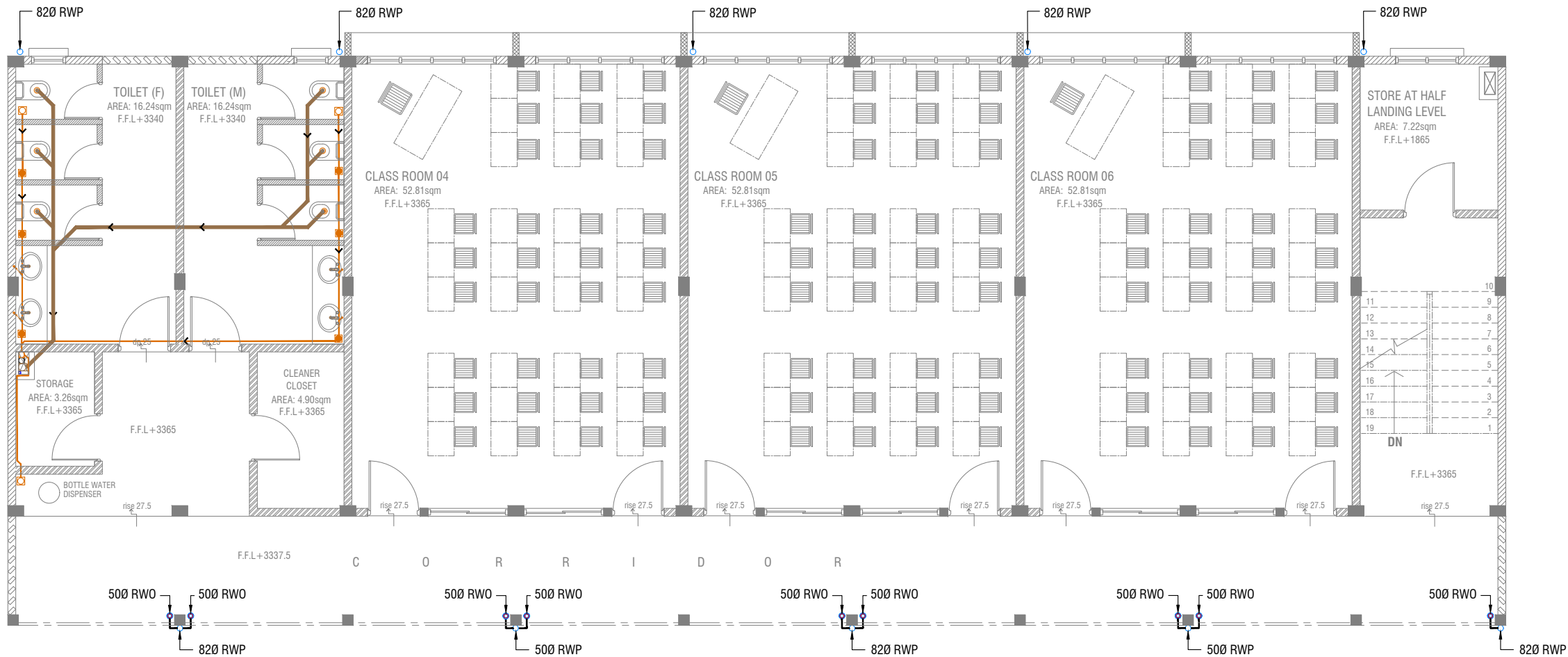


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3rd floor, H. Azum, Ameenemagu, Male'

Title: Ground Floor
Drainage Layout

Page: DR 01-y04



FIRST FLOOR DRAINAGE LAYOUT

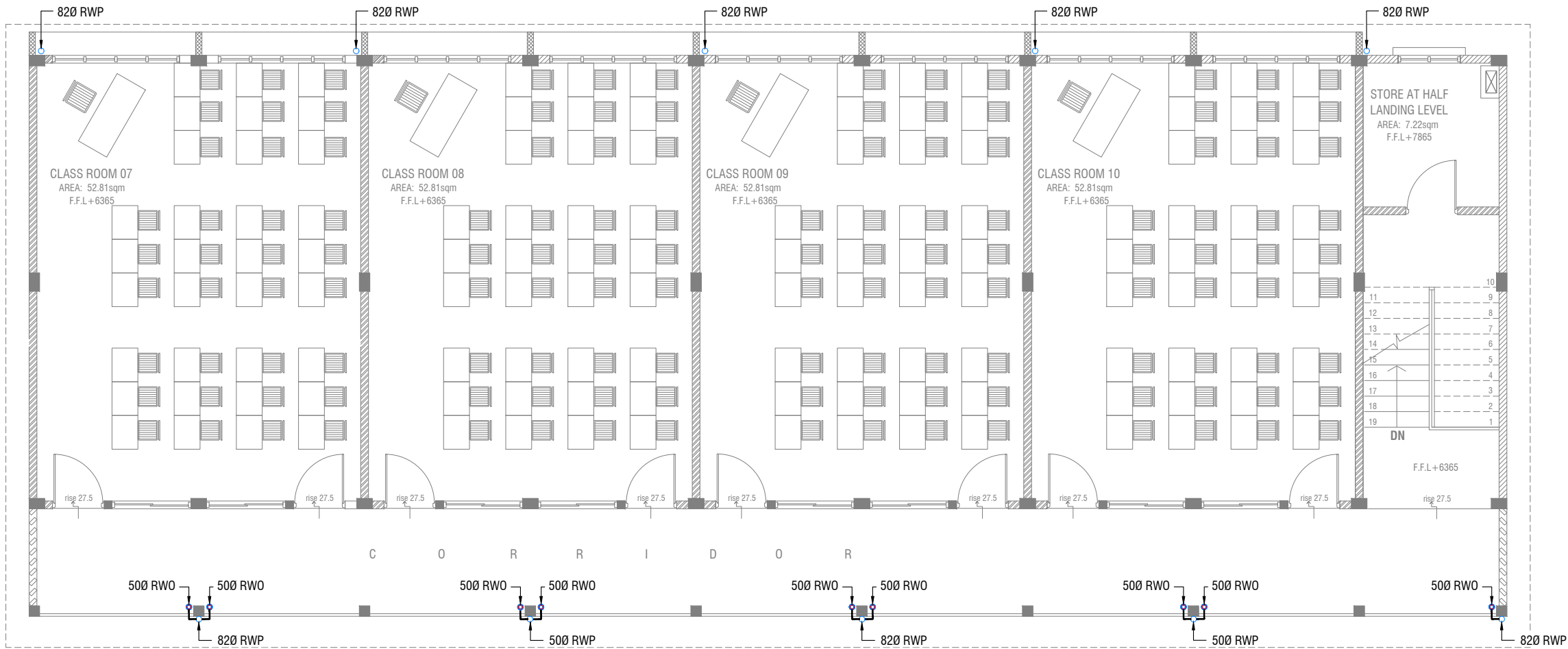


LEGEND

- 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.



SECOND FLOOR DRAINAGE LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

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.Gaadhiffushi School 10 Classroom Block (3 story)
Client: Ministry of Education

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



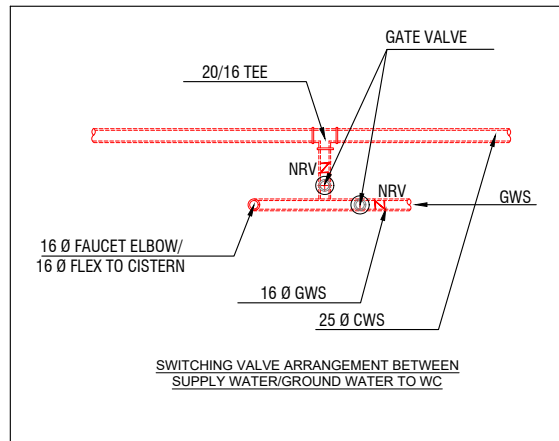
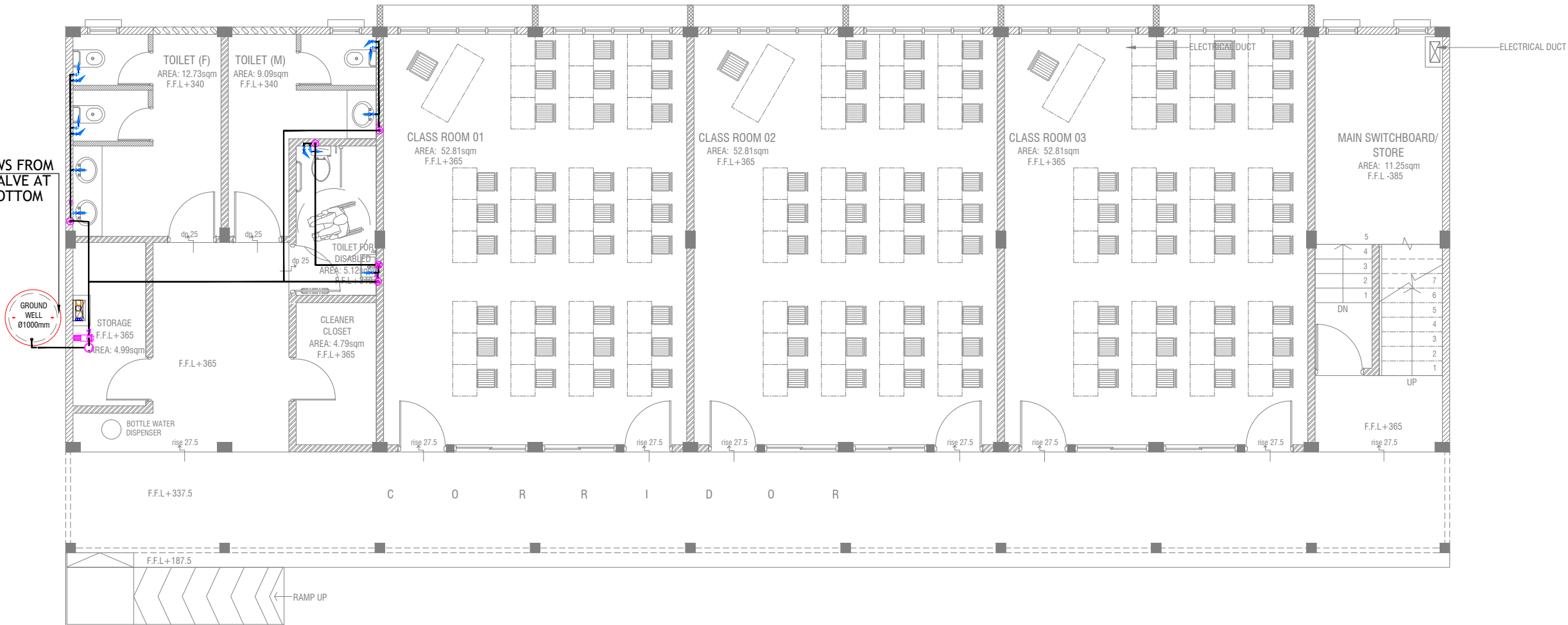
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3rd floor, H. Azum, Ammeenemagu, Male'

GROUND FLOOR PLUMBING LAYOUT

SCALE 1:100



40 Ø GWS FROM
FOOT VALVE AT
WELL BOTTOM



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.Gaadhiffushi School 10 Classroom Block (3 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: January 2021

Architect: Mariyam Irasha Shareef

Engineer: Mohamed Muthalib Waleed

Drawn by: Mariyam Leeuan Jaleel

Services: Alshath Ahmed

Interior: -

Rev no

Date

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CONNECTED TO EXISTING WELL

FIRST FLOOR PLUMBING LAYOUT



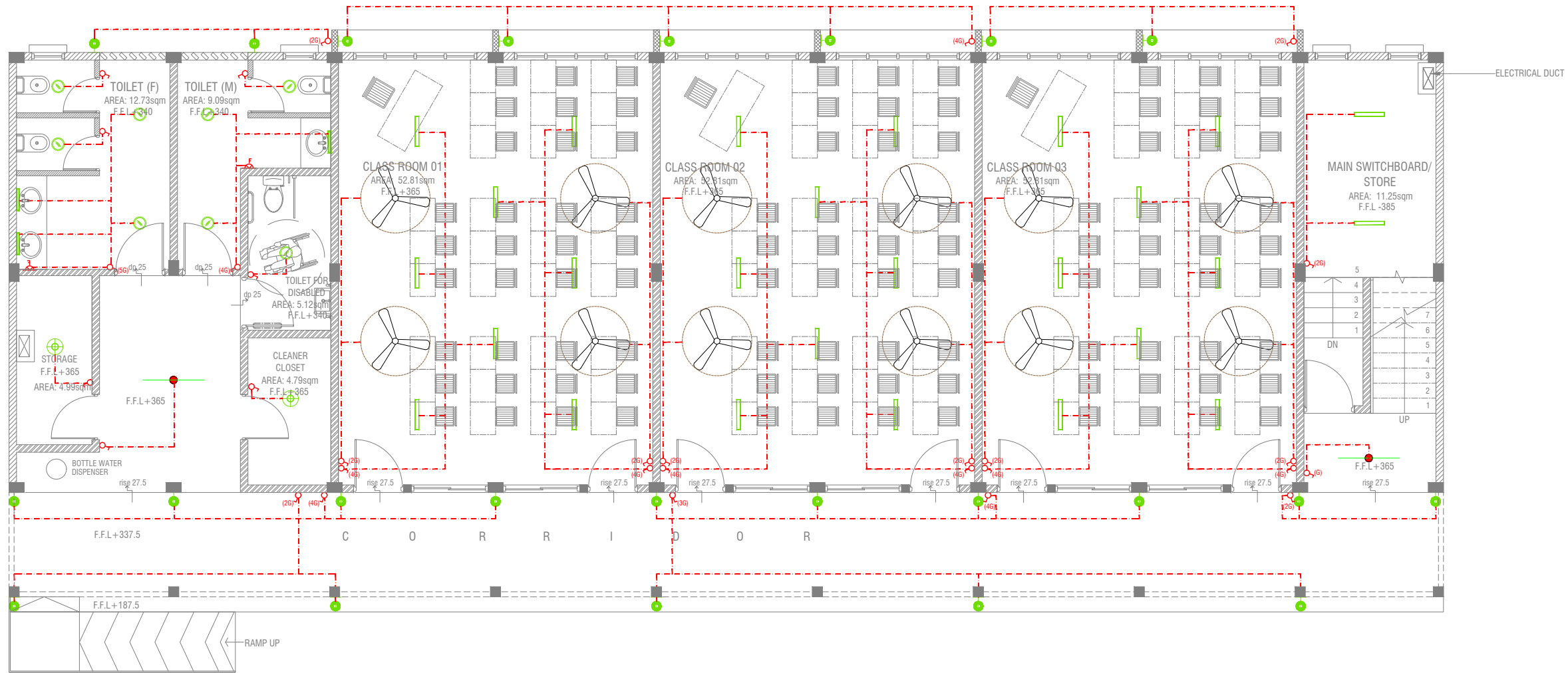
- LEGEND**
- 16 Ø COLD WATER SUPPLY TO CISTERN
 - 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
 - 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
 - GV GATE VALVE
 - 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
 - 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
 - RISE IN WALL
 - DROP IN WALL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

Th.Gaadhiffushi School 10 Classroom Block (3 story)
Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: January 2021	1	
Architect: Mariyam Irasha Shareef	2	
Engineer: Mohamed Muththalib Waleed	3	
Drawn by: Mariyam Leevan Jaleel	4	
Services: Aishah Ahmed	5	
Interior: -	6	

GROUND FLOOR LIGHTING LAYOUT

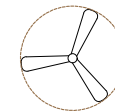
SCALE 1:100



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
- 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. Gaadhiffushi School 10 Classroom Block (3 story)
Client: Ministry of Education

Project Number: RI/2020/006

Date: January 2021

Architect: Mariyam Irasha Shareef

Engineer: Mohamed Muththilab Valeed

Drawn by: Mariyam Leevan Jaleel

Services: Aishath Ahmed

Interior: -



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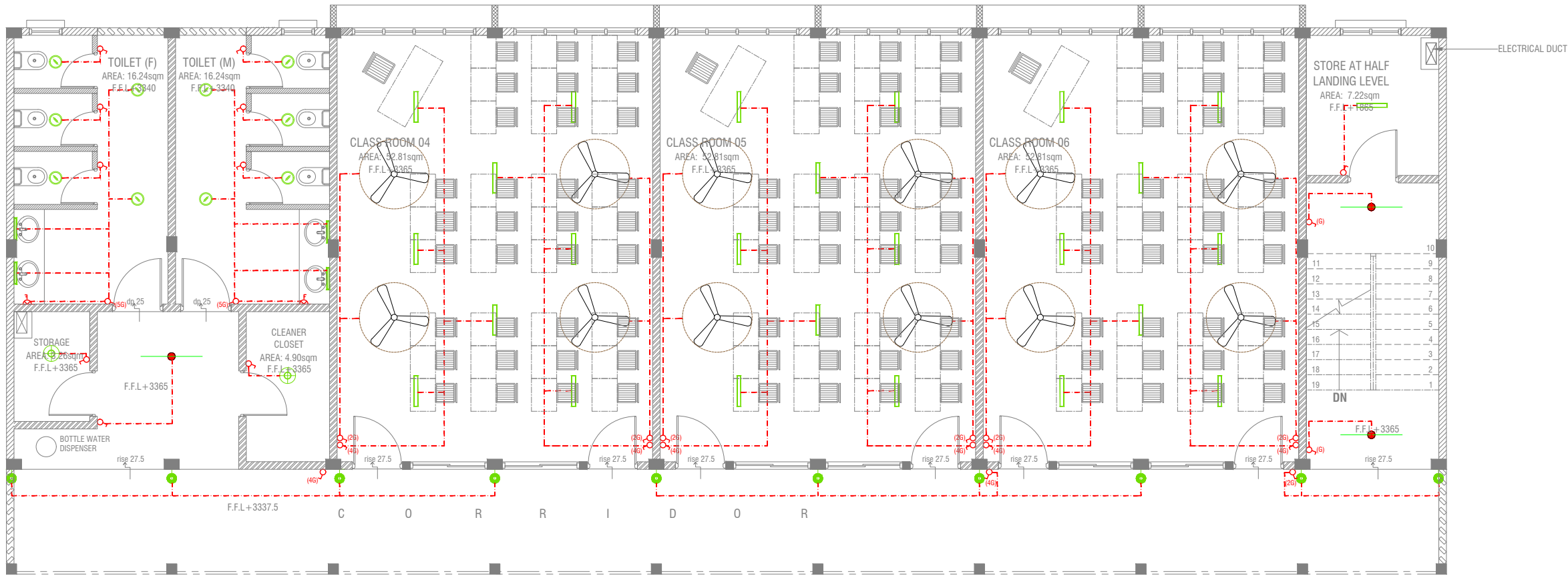
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3rd floor, H. Azum, Ameeremaguu, Male'

Title: Ground Floor
Lighting Layout

Page: EL-01-03

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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
- 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.Gaadhiffushi School 10 Classroom Block (3 story)
Client: Ministry of Education

Rev no	Date
1	10/01/2021
2	10/01/2021
3	10/01/2021
4	10/01/2021
5	10/01/2021

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

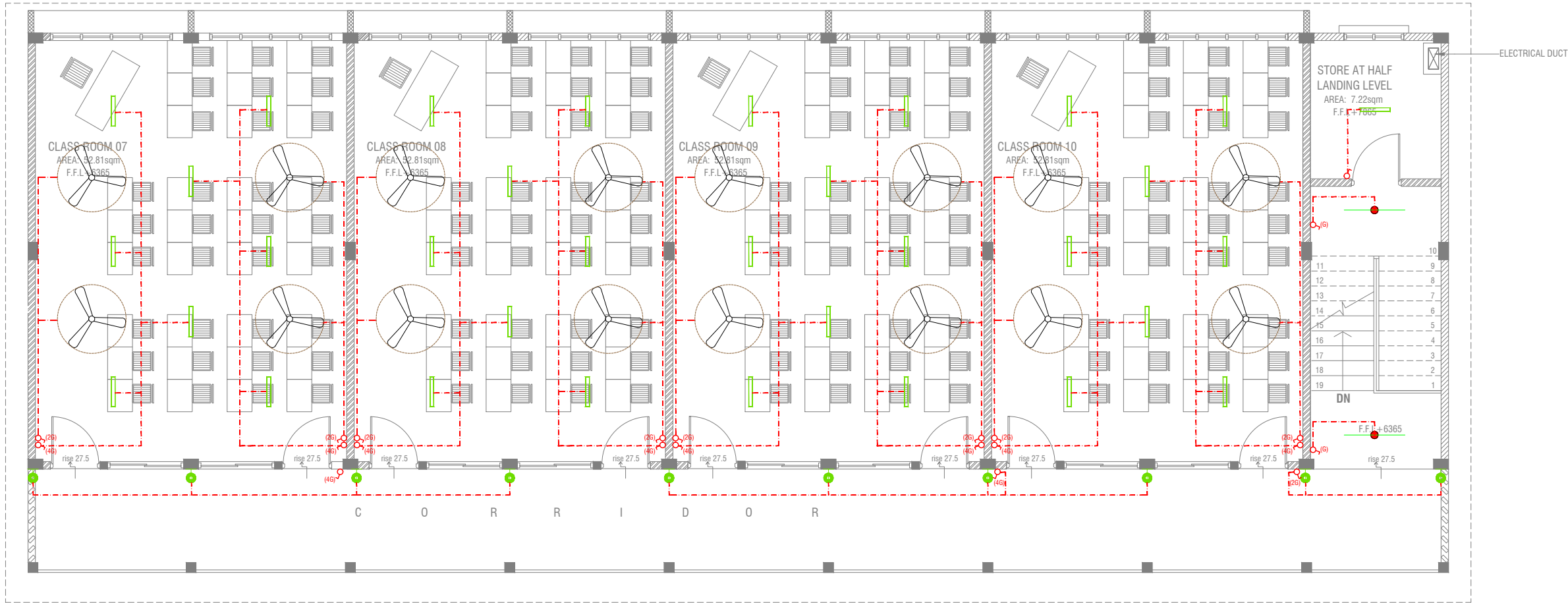


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3rd floor, H. Azum, Ameenemagu, Male'

Title: First Floor
Lighting Layout
Page: EL 02-03

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SECOND 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.Gaadhiffushi School 10 Classroom Block (3 story)
Client: Ministry of Education

Project Number: RI/2020/006

Date: January 2021

Architect : Maryam Irasha Shareef

Engineer : Mohamed Muthalib Waleed

Drawn by : Maryam Leevan Jaleel

Services : Aishath Ahmed

Interior : -

Rev no	Date
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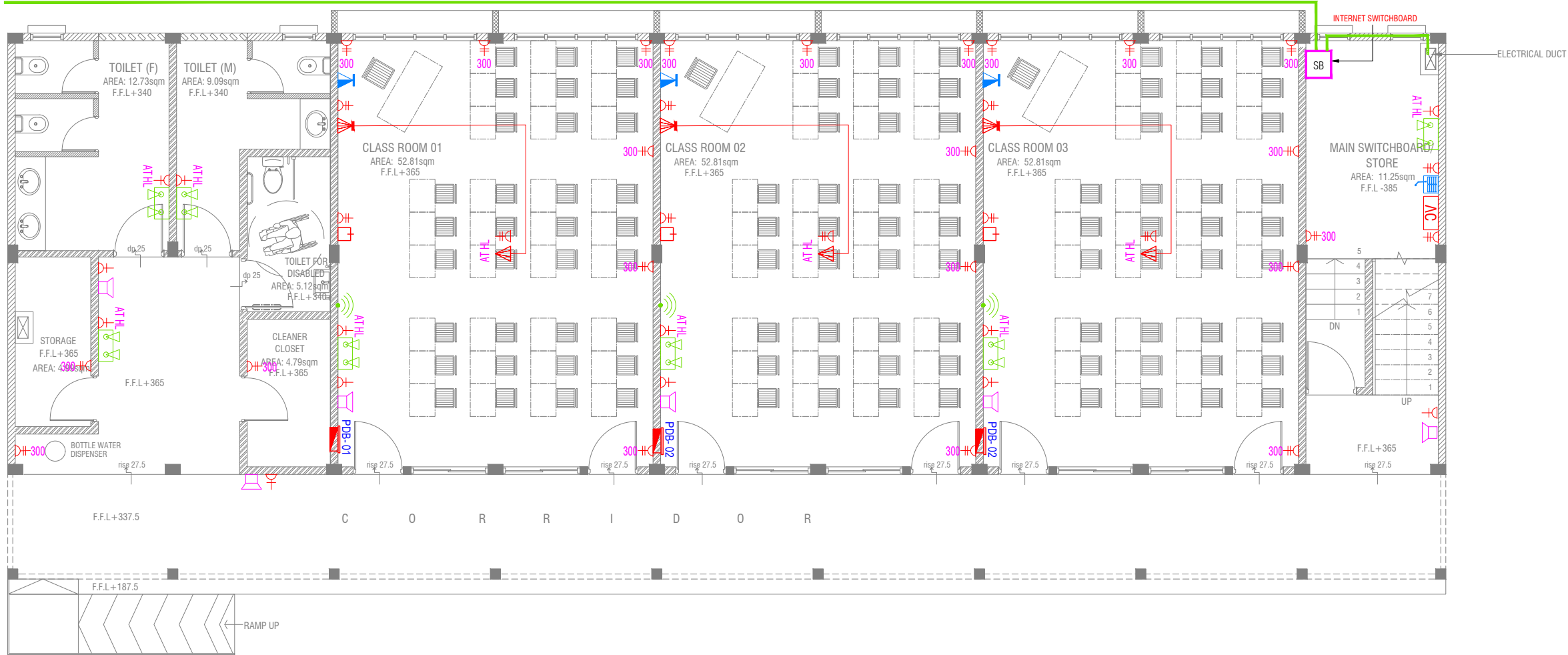
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Title: Second Floor
Lighting Layout

Page: EL 03-03

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PVC DUCT FOR DATA CABLE LEAD IN BELOW GR.SLAB



GROUND FLOOR POWER LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

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
- 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

Th. Gaadhiffushi School 10 Classroom Block (3 story)
Client: Ministry of Education

Project Number: RI/2020/006

Date: January 2021

Architect : Mariyam Irasha Shareef

Engineer : Mohamed Muthalib Waleed

Drawn by : Mariyam Leevan Jaleel

Services : Aishath Ahmed

Interior : -



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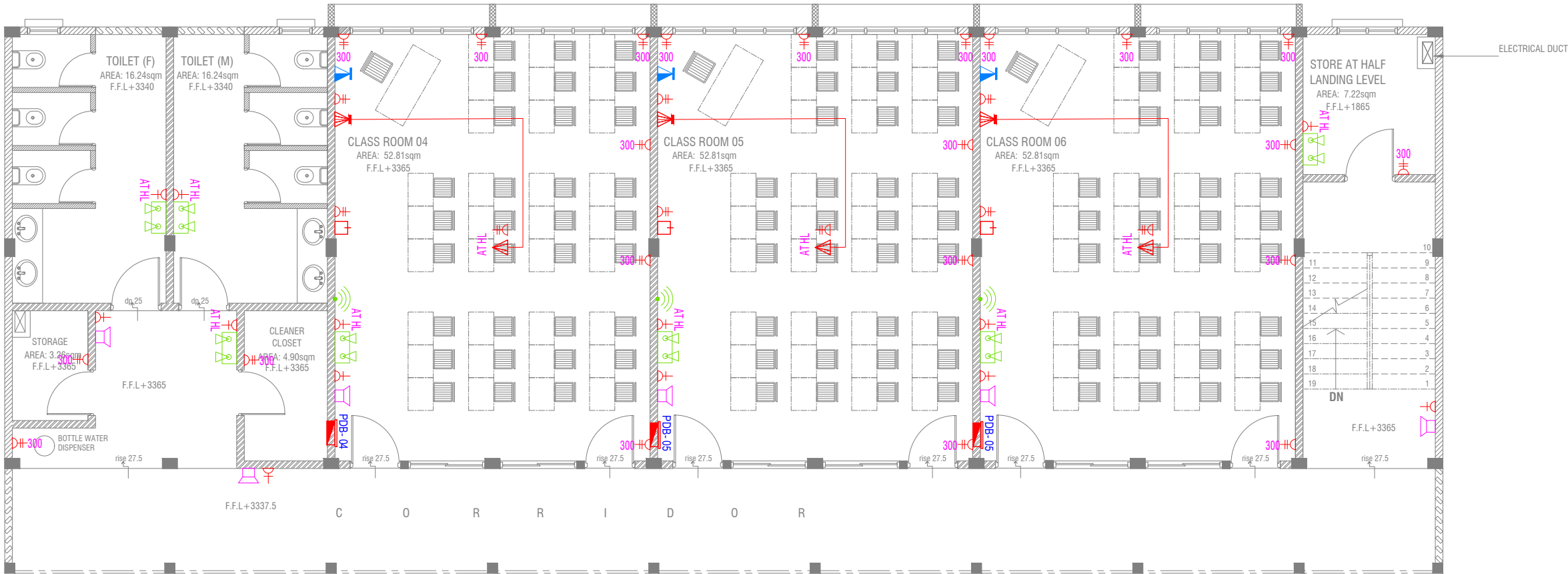
Title: Ground Floor
Power Layout

Page: EP 01-03

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FIRST 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

- 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

Th.Gaadhifushi School 10 Classroom Block (3 story)
Client: Ministry of Education

Project Number: RJ/2020/006
Date: January 2021

Architect : Mariyam Irasha Shareef
Engineer : Mohamed Munthaliab Waleed
Drawn by : Mariyam Leevan Jaleel
Services : Aishath Ahmed

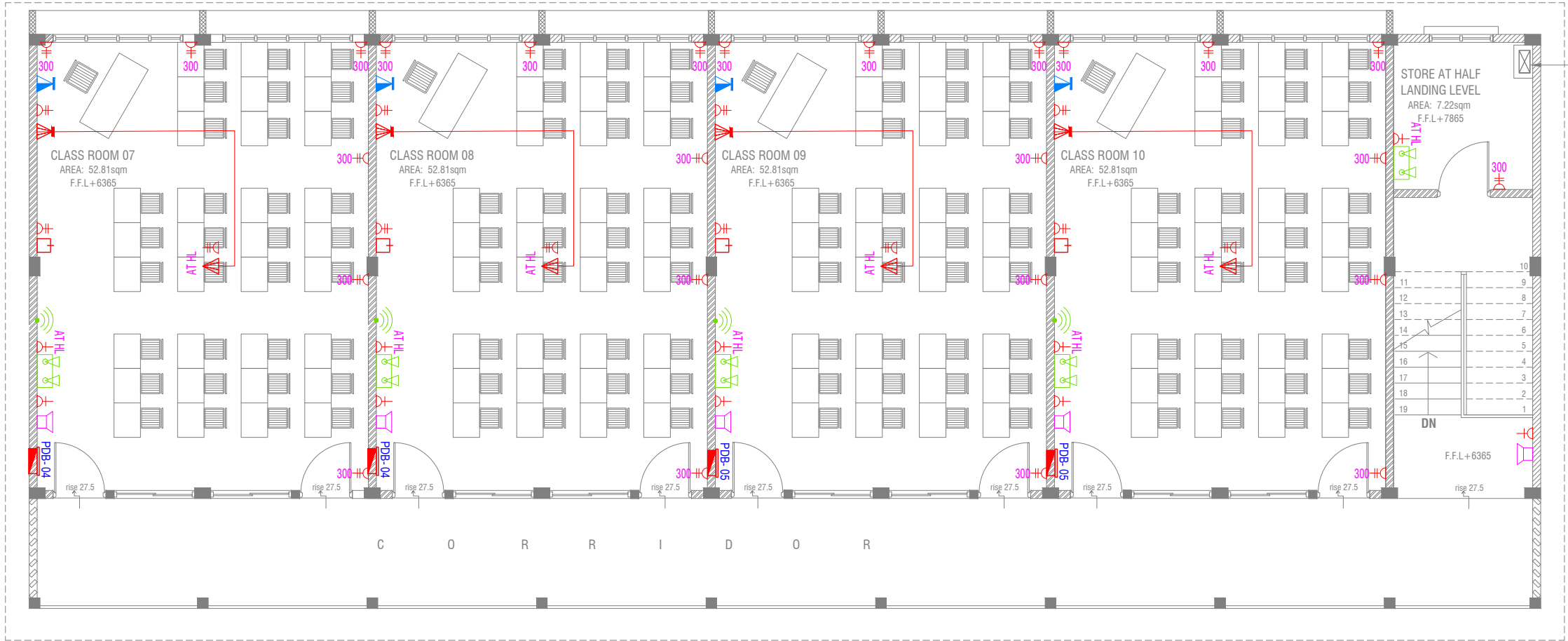
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3rd floor, H. Azum, Ameeneemagu, Male'

SECOND 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

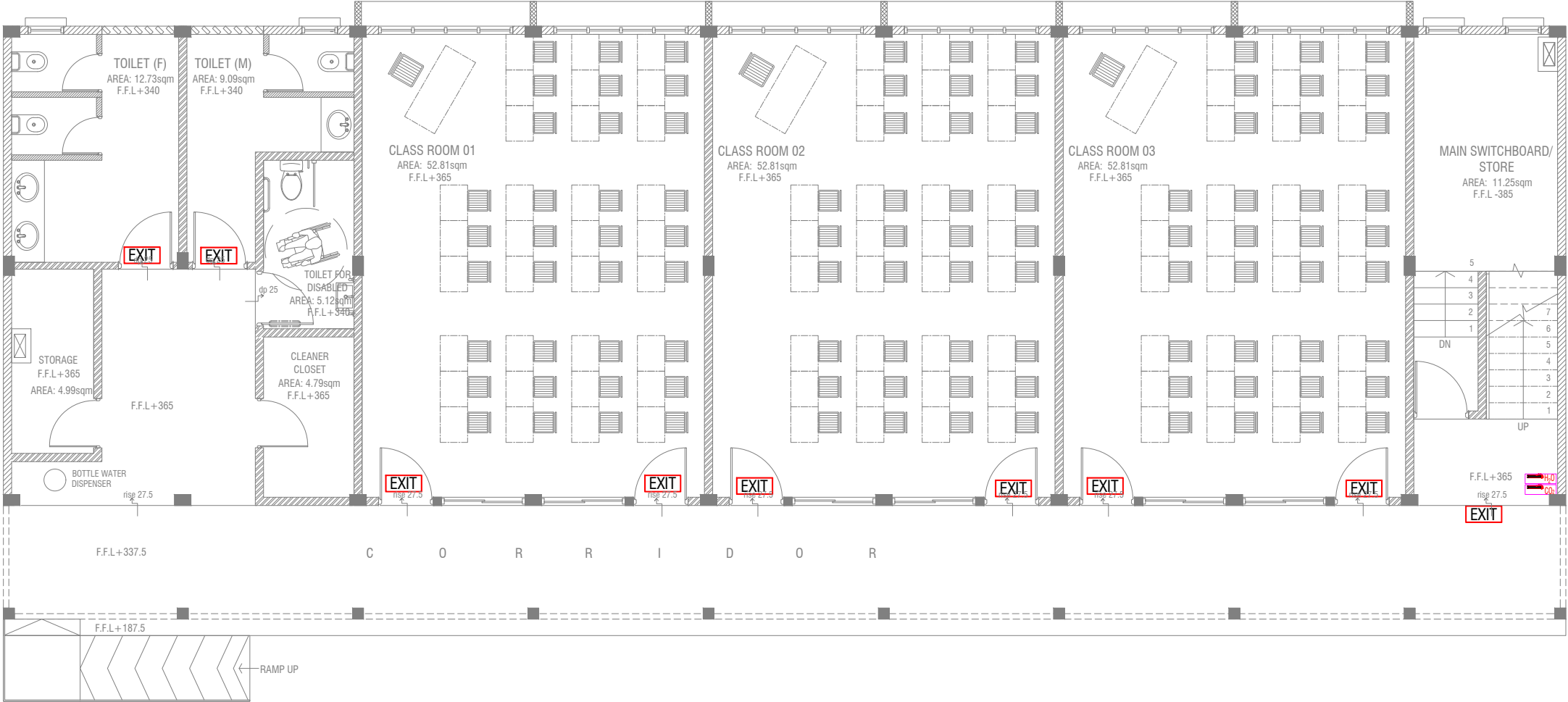
Th.Gaadhiffushi School 10 Classroom Block (3 story)
Client: Ministry of Education

Rev no	Date
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-	-
-	-

Project Number: R/2020/006
Date: January 2021
Architect : Maryam Irasha Shareef
Engineer : Mohamed Muththailb Waleed
Drawn by : Maryam Leevan Jaleel
Services : Aishath Ahmed
Interior : -






Title: Second Floor Power Layout
Page: EP 03-03



GROUND FLOOR FDP LAYOUT



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/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

Th.Gaadhiffushi School 10 Classroom Block (3 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: January 2021

Architect : Mariyam Irasha Shareef

Engineer : Mohamed Muthalib Waleed

Drawn by : Mariyam Leevan Jaleel

Services : Aishath Ahmed

Interior : -

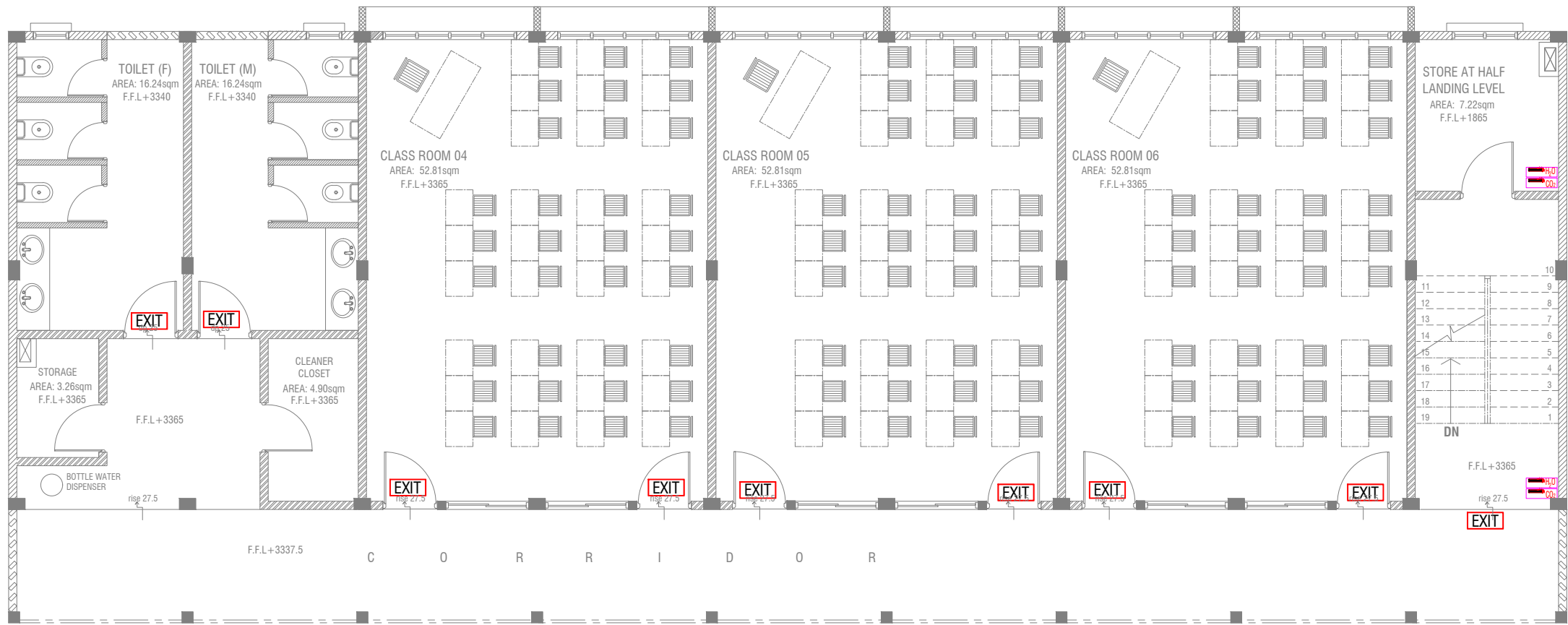


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3rd floor, H. Azum, Armeenemagau, Male'

Title: Ground Floor
FDP Layout

Page: FDP 01-03



FIRST FLOOR FDP LAYOUT



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)

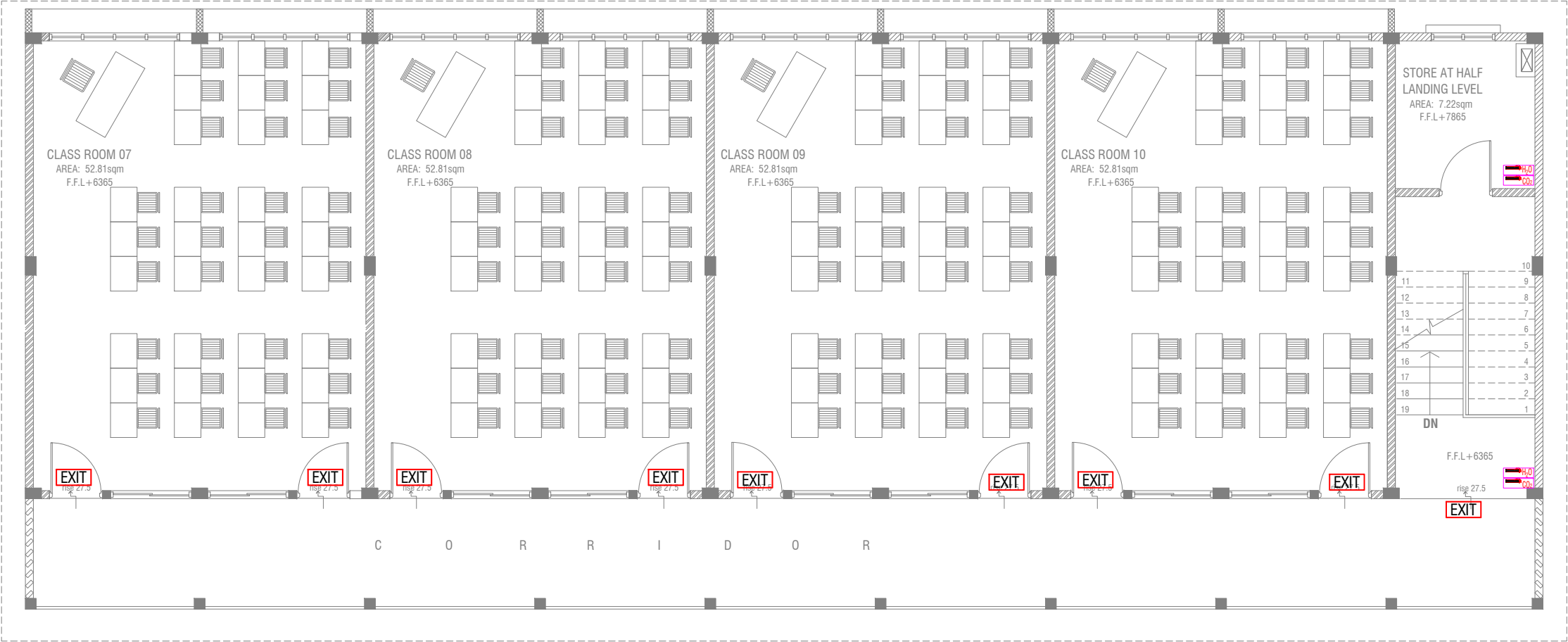
- 1.ALL PIPES SHOULD BE GALVANIZED,SCHEDULE 40.
2. ALL PIPE SHALL BE PAINTED IN RED AS PER REGULATION.
3. ALL SUPPORT/BACKET SHALL BE HOT DIPPED GALVANIZED TO 100MM 4.ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

-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

Th.Gaadhiffushi School 10 Classroom Block (3 story)
Client: Ministry of Education

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



SECOND FLOOR FDP LAYOUT



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/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

Th.Gaadhiffushi School 10 Classroom Block (3 story)
Client: Ministry of Education

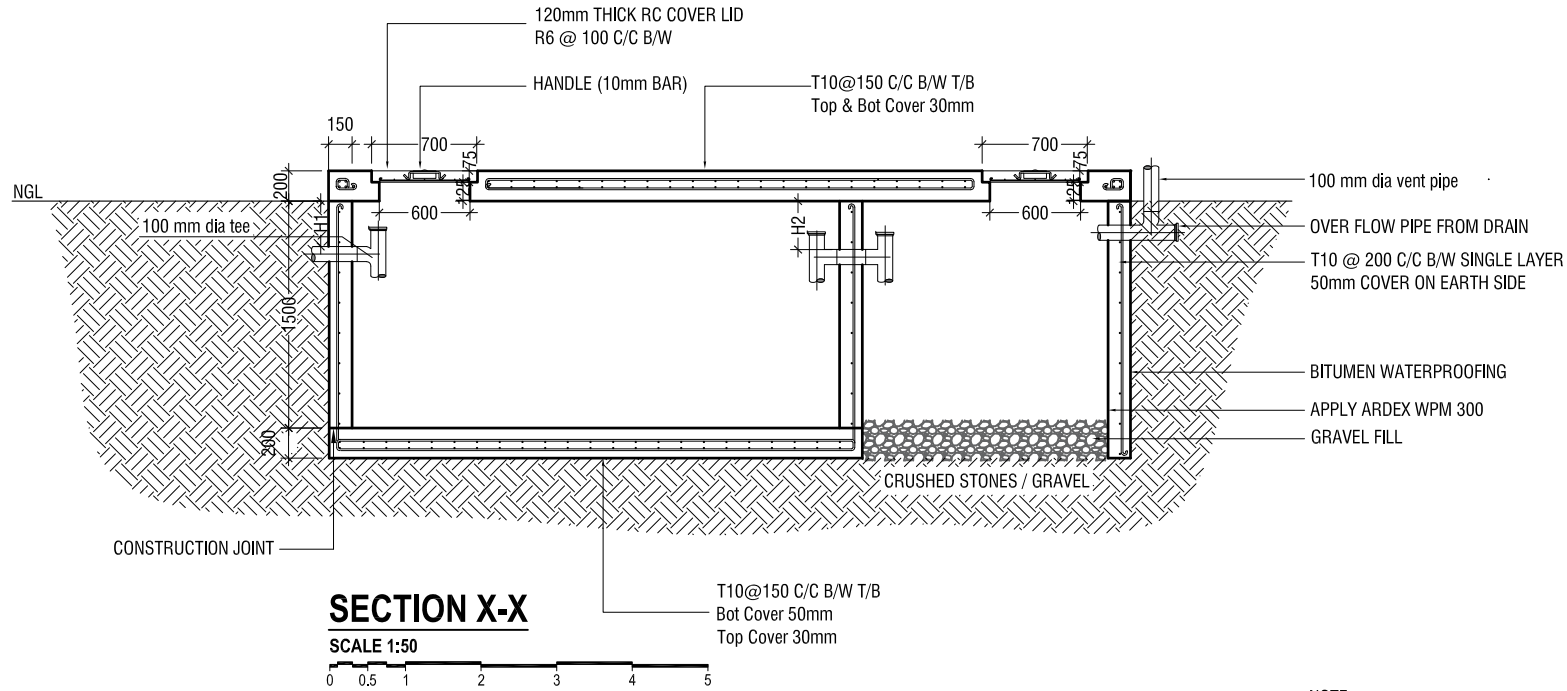
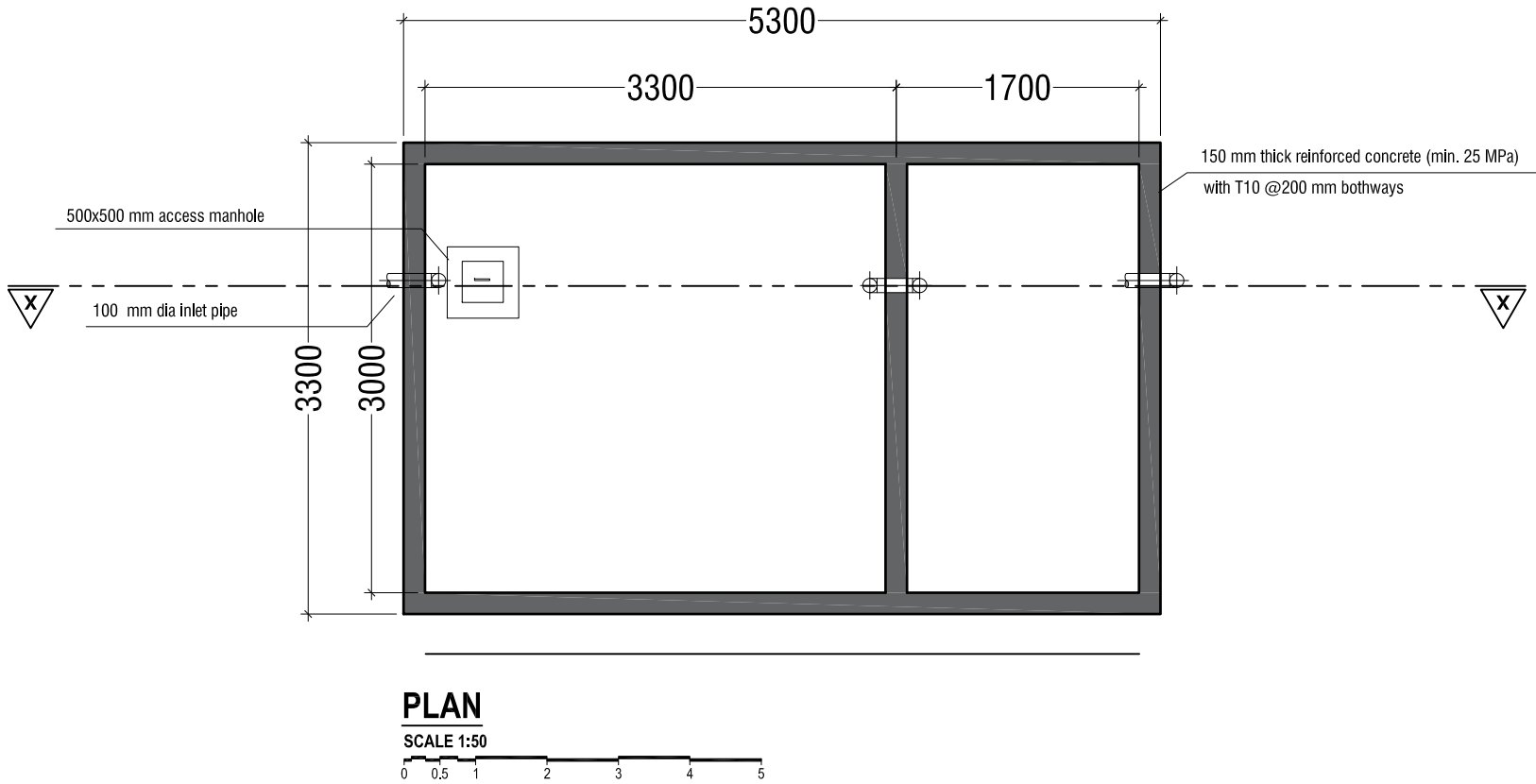
Project Number: RI/2020/006	Rev no	Date
Date: January 2021	-	-
Architect : Mariyam Irasha Shareef	-	-
Engineer : Mohamed Muththalib Waleed	-	-
Drawn by : Mariyam Leeyan Jaleel	-	-
Services : Aishath Ahmed	-	-
Interior : -	-	-



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w : www.riyan.com.mv
3rd floor, H. Azum, Ameermeenagu, Male'

Title: Second Floor
FDP Layout
Page: FDP 03-03

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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.Gaadhiffushi School 10 Classroom Block (3 story)

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Architect : Maryam Irasha Shareef	--	----
Engineer : Mohamed Muhtalib Waleed	--	----
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3rd floor, H. Azum, Ameenemogoo, Male'

Title: Septic Tank Detail

Page: DETAIL 01-02

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SCALE 1:20



to be decided at site, water table must be available for at least 1500mm

150

75

130

1000

1150

T10 @ 150 C/C T/B

T10 @ 150 C/C T/B

T10 @ 150 C/C T/B

Technical drawing of a rectangular frame with dimensions. The overall width is 1150 and the overall height is 1000. The frame has a thickness of 50. The inner opening is 1000 wide and 900 high. The bottom edge of the frame is 150 high.

- 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

SCALE 1:20



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rd floor, H. Azum, Ameenemagu, Male'

Title: Ground Water Well
Detail

Page: DETAIL 02-02

Th. Gaadhiffushi School 10 Classroom Block (3 story)
Client: Ministry of Education

Rev no	Date
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Project Number: RI/2020/006
Date: January, 2021
Architect : Maryam Irasha Shareef
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Services : Aishath Ahmed
Interior : -

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