

Proposed 16 Classroom & Computer Lab at
Mohamed Jamaluddin School, Gn.Fuvahmulah
(04 Storey)

SERVICES DRAWINGS
Client: Ministry of Education



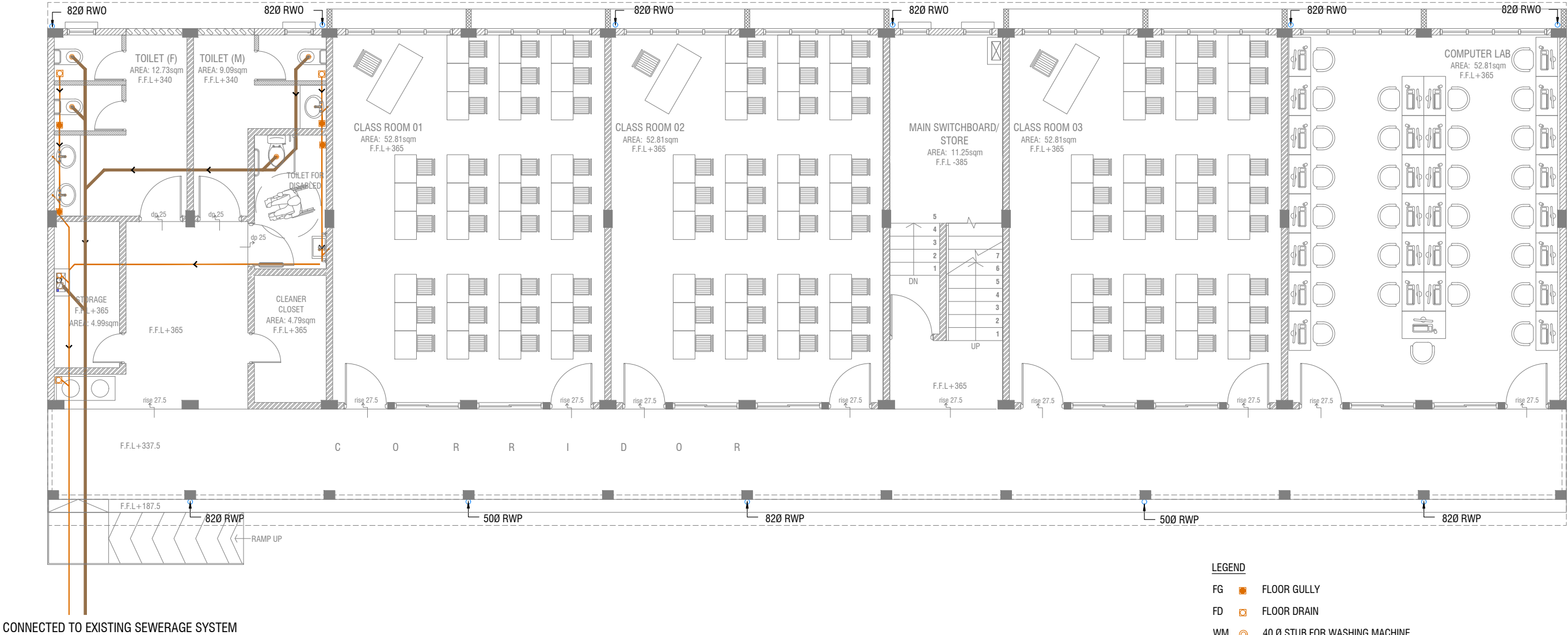
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3rd floor, H. Azum, Ameeleemagu, Male'

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CONNECTED TO EXISTING SEWERAGE SYSTEM

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



Mohamed Jamaludheen School,Gn.Fuvahmulah - 16 Classroom and Computer Lab (04 Storey)

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

Interior: -

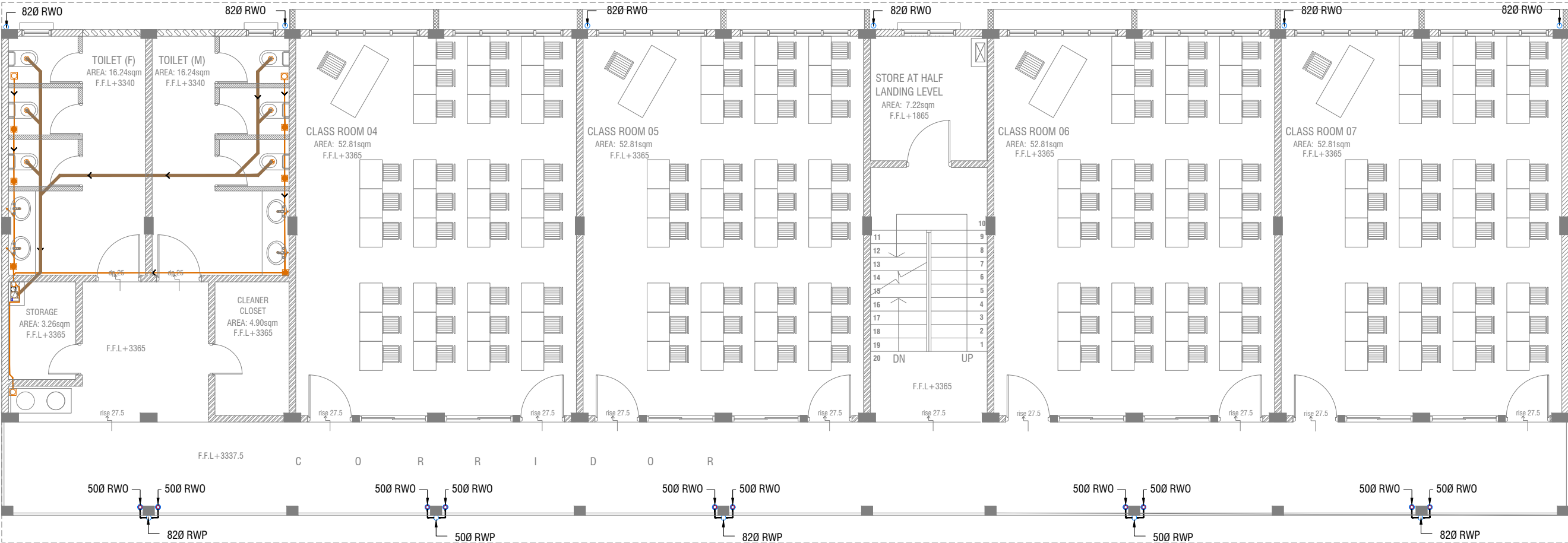
Rev no	Date
1	
2	
3	
4	

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

Title: Ground Floor Drainage Layout

Page: DR 01-04



FIRST - SECOND 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

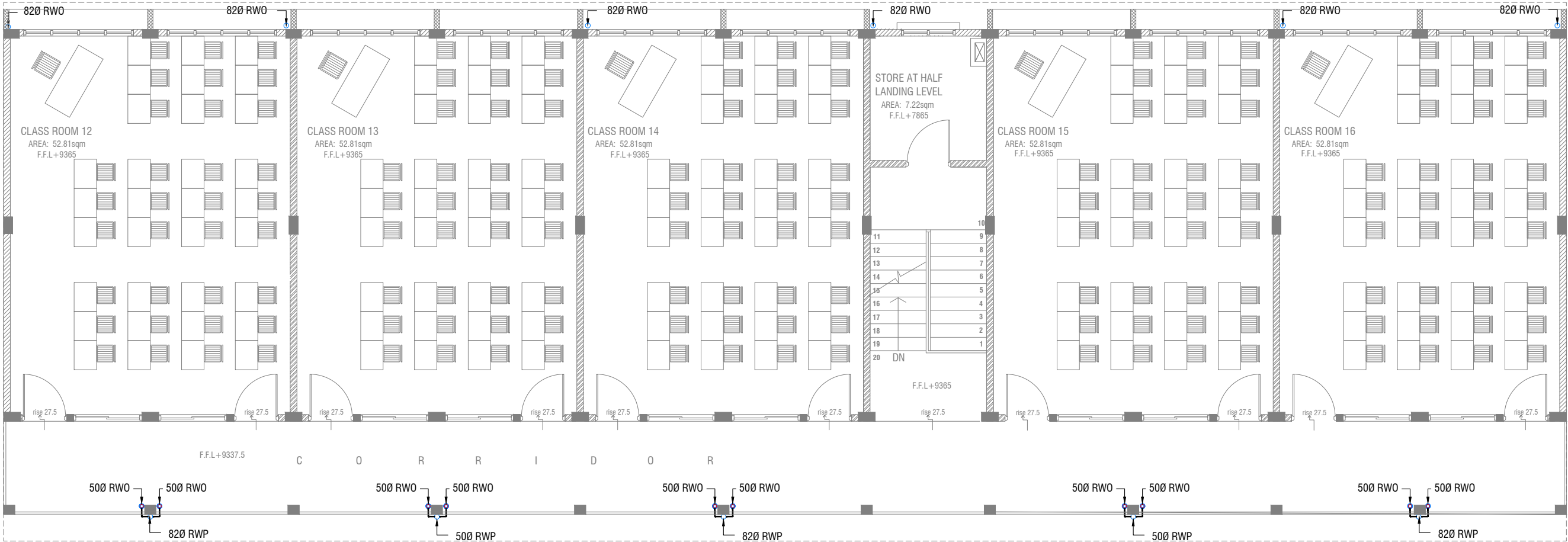
NOTE:

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

Mohamed Jamaludheen School,Gn.Fuvahmulah - 16 Classroom and Computer Lab (04 Storey)

Client: Ministry of Education

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



THIRD 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

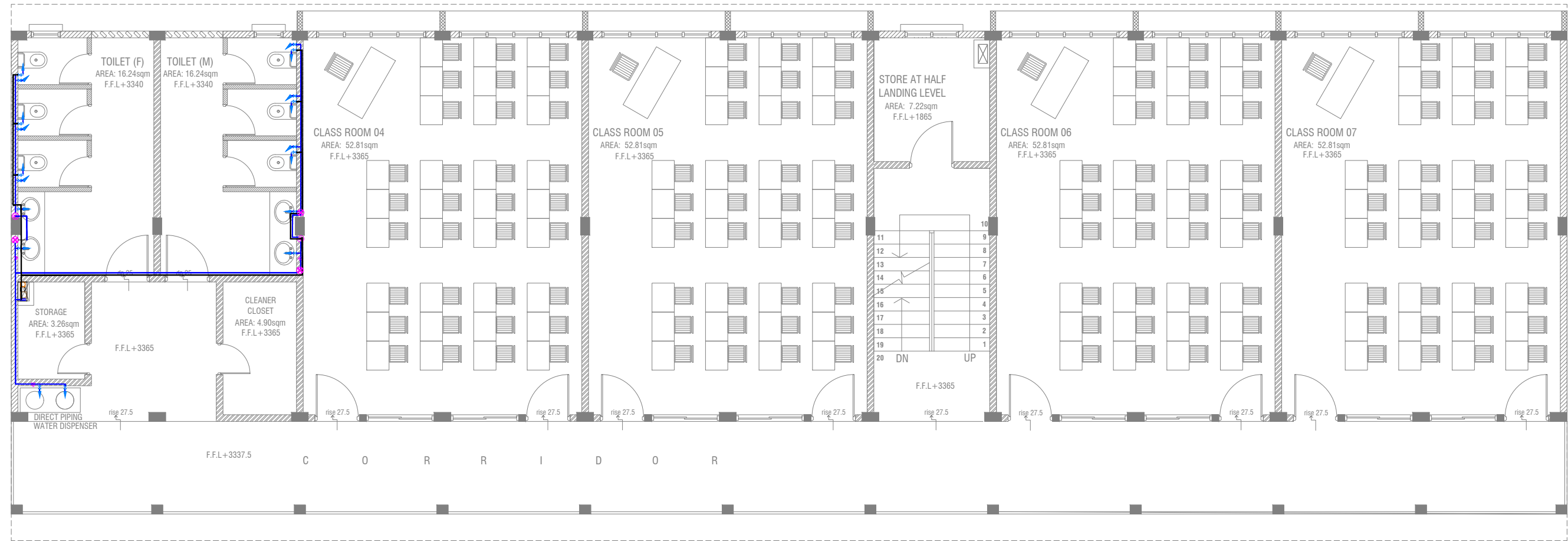
NOTE:

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

Mohamed Jamaludheen School,Gn.Fuvahmulah - 16 Classroom and Computer Lab (04 Storey)

Client: Ministry of Education

Project Number: RI/2020/006	Rev no	Date
Date: January 2021	-	-
Architect : Maryam Irasha Shareef	-	-
Engineer : Mohamed Muhtalib Waleed	-	-
Drawn By : Maryam Lervan Jaleel	-	-
Services : Aishath Ahmed	-	-
Interior : -	-	-



FIRST - SECOND 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

Mohamed Jamaludheen School,Gn.Fuvahmulah - 16 Classroom and Computer Lab (04 Storey)

Client: Ministry of Education

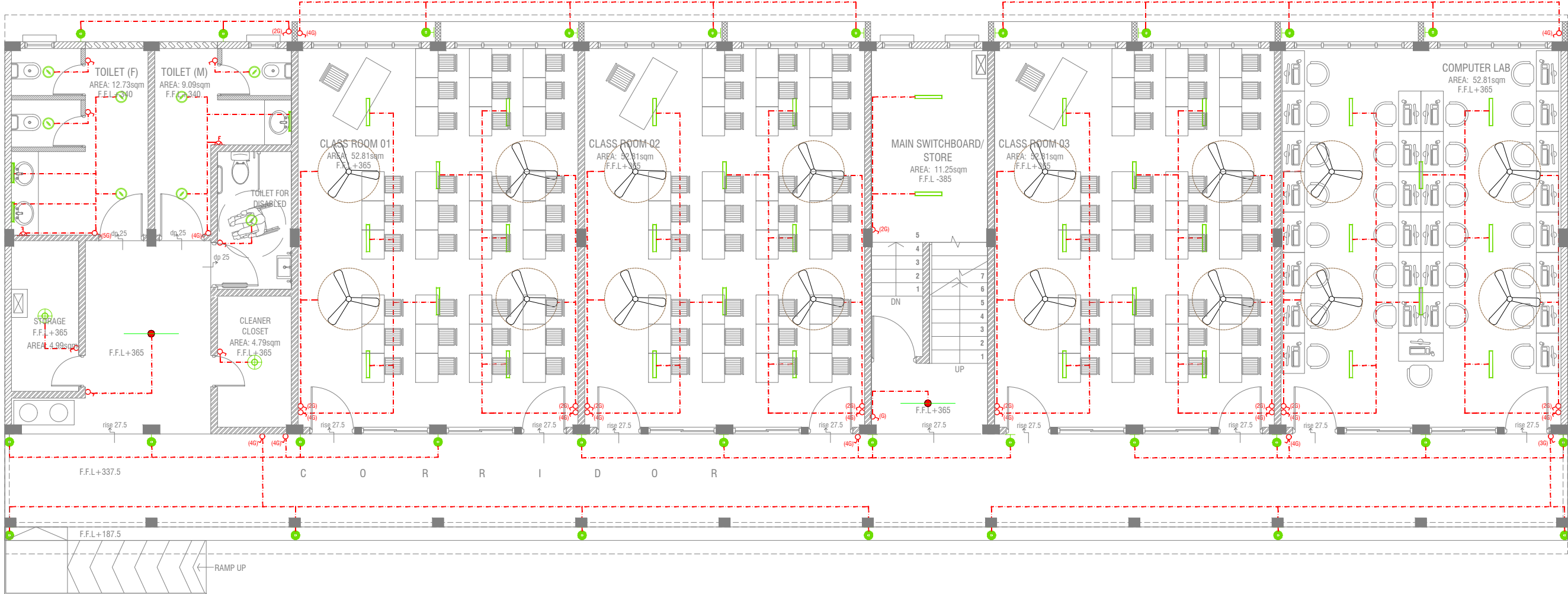
Project Number: RI/2020/006
Date: January 2021
Architect: Mariyam Iqasha Shareef
Engineer: Mohamed Muththalib Waleed
Drawn by: Mariyam Leevan Jaleel
Services: Aishath Ahmed
Interior: -

Rev no	Date
-	-
-	-
-	-
-	-

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Title: First - Second Floor
Plumbing Layout
Page: PL 02- 02

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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



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

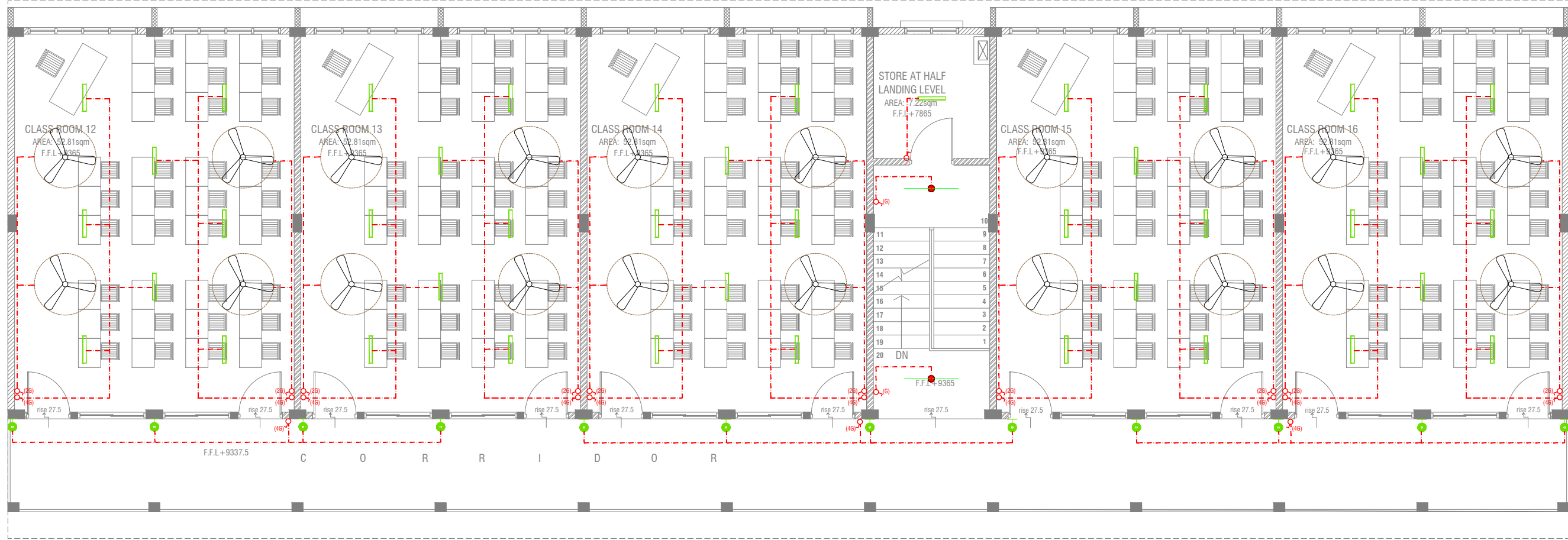
Mohamed Jamaludheen School, Gn.Fuvahmulah - 16 Classroom and Computer Lab (04 Storey)
Client: Ministry of Education

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

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

Title: Ground Floor
Lighting Layout
Page: EL 01-03

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THIRD 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
 - EXAUST

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

Mohamed Jamaludheen School,Gn.Fuvahmulah - 16 Classroom and Computer Lab (04 Storey)

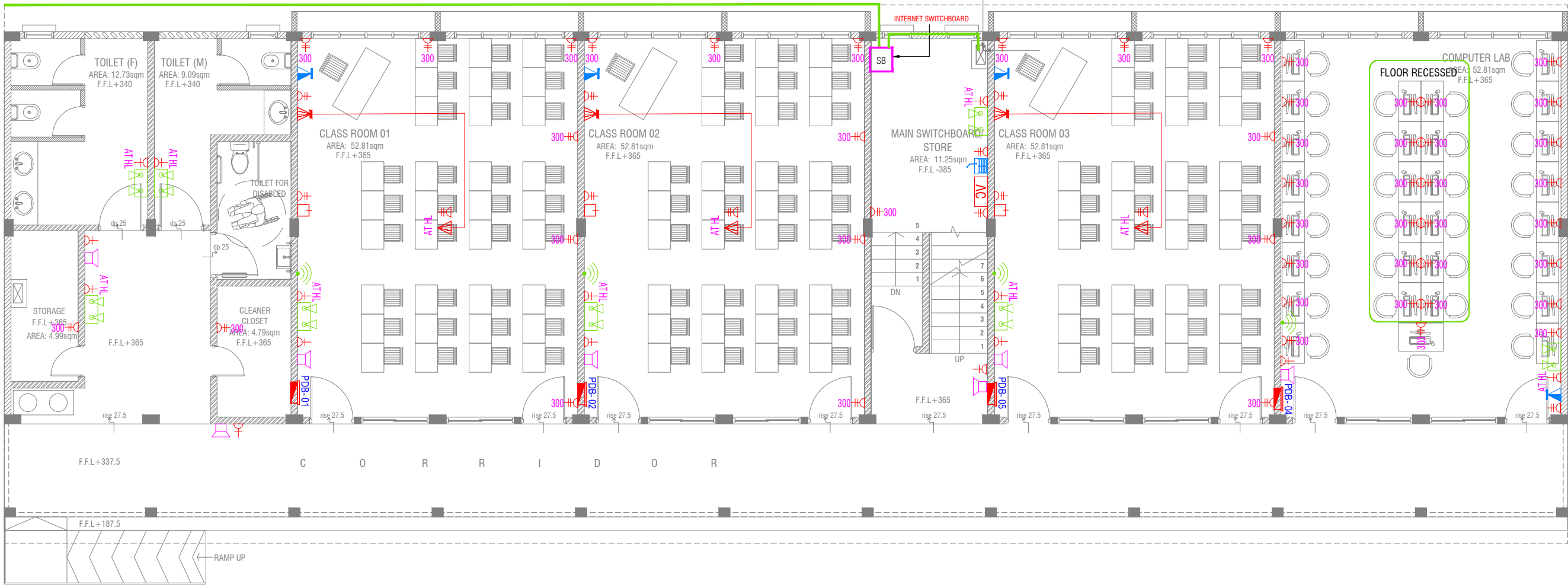
Client: Ministry of Education

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


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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

- 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

Mohamed Jamaludheen School,Gn.Fuvahmulah - 16 Classroom and Computer Lab (04 Storey)
Client: Ministry of Education

Project Number: RI/2020/006

Date: January 2021

Architect: Mariyam Irasha Shareef

Engineer: Mohamed Muththalib Waleed

Drawn by: Mariyam Leezan Jaleel

Services: Aishath Ahmed

Interior: -



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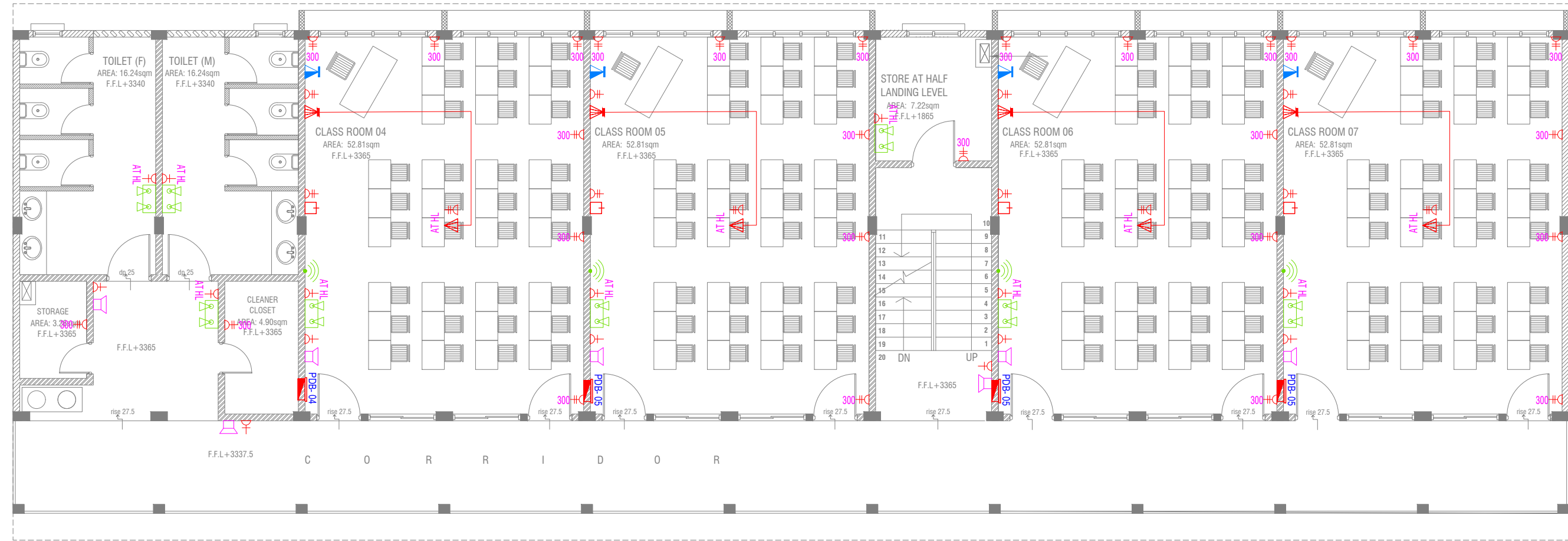
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3rd floor, H. Azum, Ameenemogu, Male'

Title: Ground Floor
Power Layout

Page: EP 01-03

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FIRST - SECOND 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
- 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

Mohamed Jamaludheen School,Gn.Fuvahmulah - 16 Classroom and Computer Lab (04 Storey)
Client: Ministry of Education

Project Number: RI/2020/006

Date: January 2021

Architect : Maryam Irasha Shareef

Engineer : Mohamed Muththalib Waleed

Drawn by : Maryam Leevan Jaleel

Services : Aishath Ahmed

Interior : -

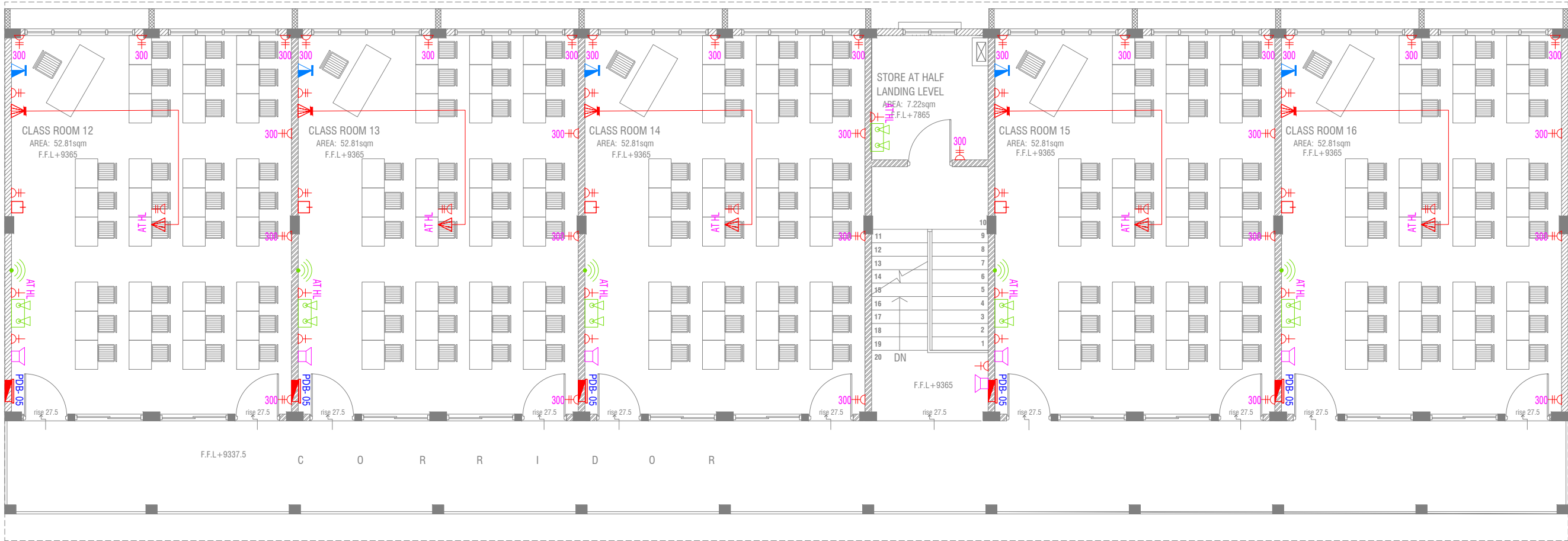


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3rd floor, H. Azumi, Ameenemaguu, Male'

Title: First - Second Floor
Power Layout

Page: EP 02- 03



THIRD 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

Mohamed Jamaludheen School,Gn.Fuvahmulah - 16 Classroom and Computer Lab (04 Storey)
Client: Ministry of Education

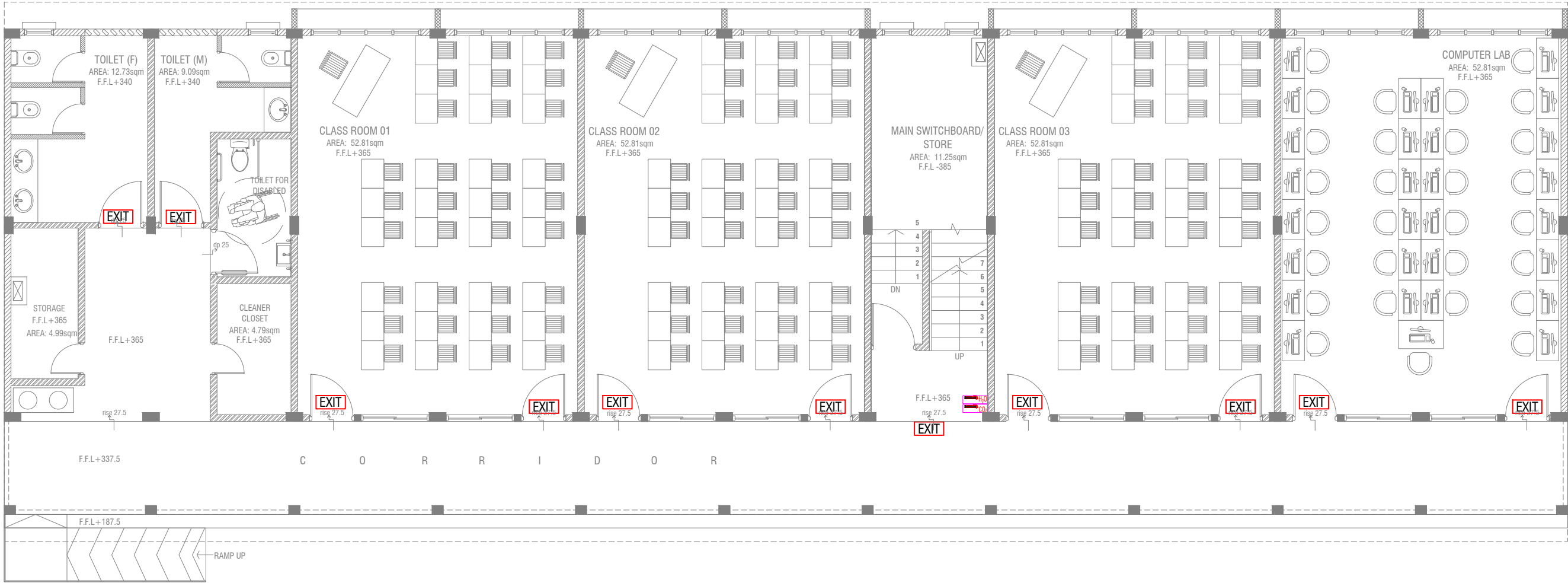


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3rd floor, H. Azum, Armeenemmagu, Male'

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

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

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

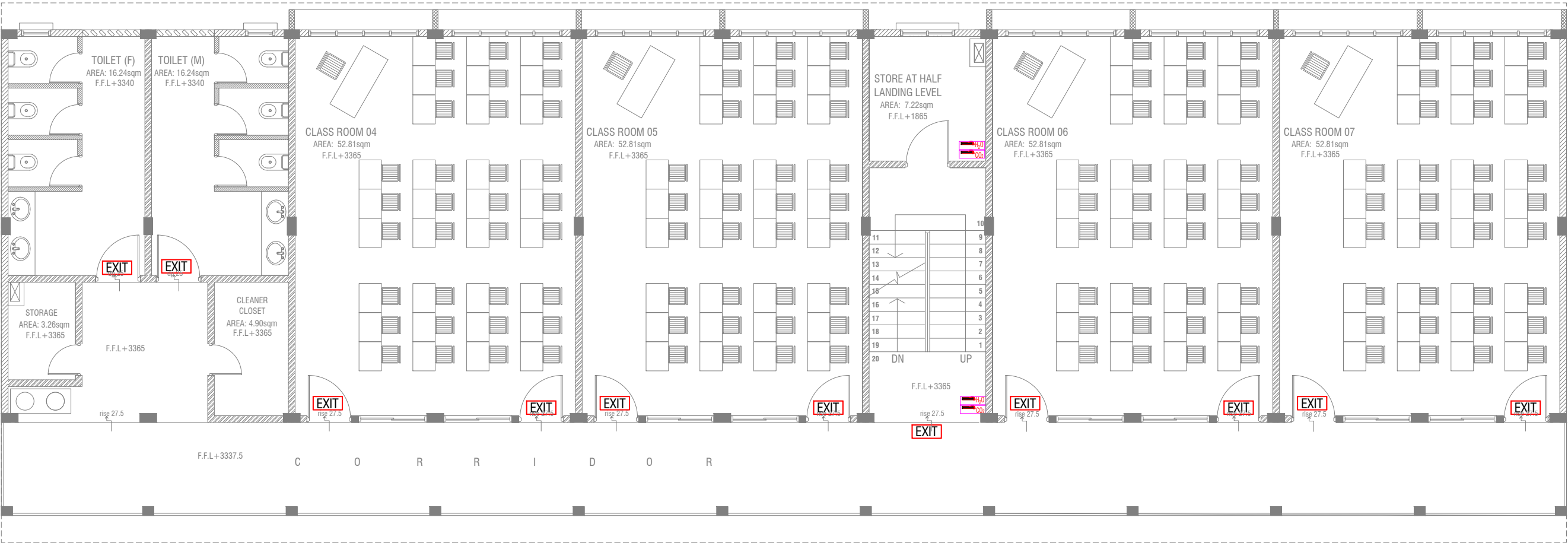
-IF THE INSTALLATION OF CEILING IS CARRIED OUT LOWER THAN BEAM BOTTOM ,SMOKE DETECTORS SHOULD BE PLACED AS INDICATED ON THE DRAWING.
-ALTERNATIVELY IF THE INSTALLATION OF CEILING IS CARRIED OUT EQUAL TO BEAM BOTTOM OR IF THE CEILING IS NOT INSTALLED , SMOKE DETECTORS ARE TO BE PLACED IN BETWEEN EACH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

Mohamed Jamaludheen School,Gn.Fuvahmulah - 16 Classroom and Computer Lab (04 Storey)
Client: Ministry of Education

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



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FIRST - 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)

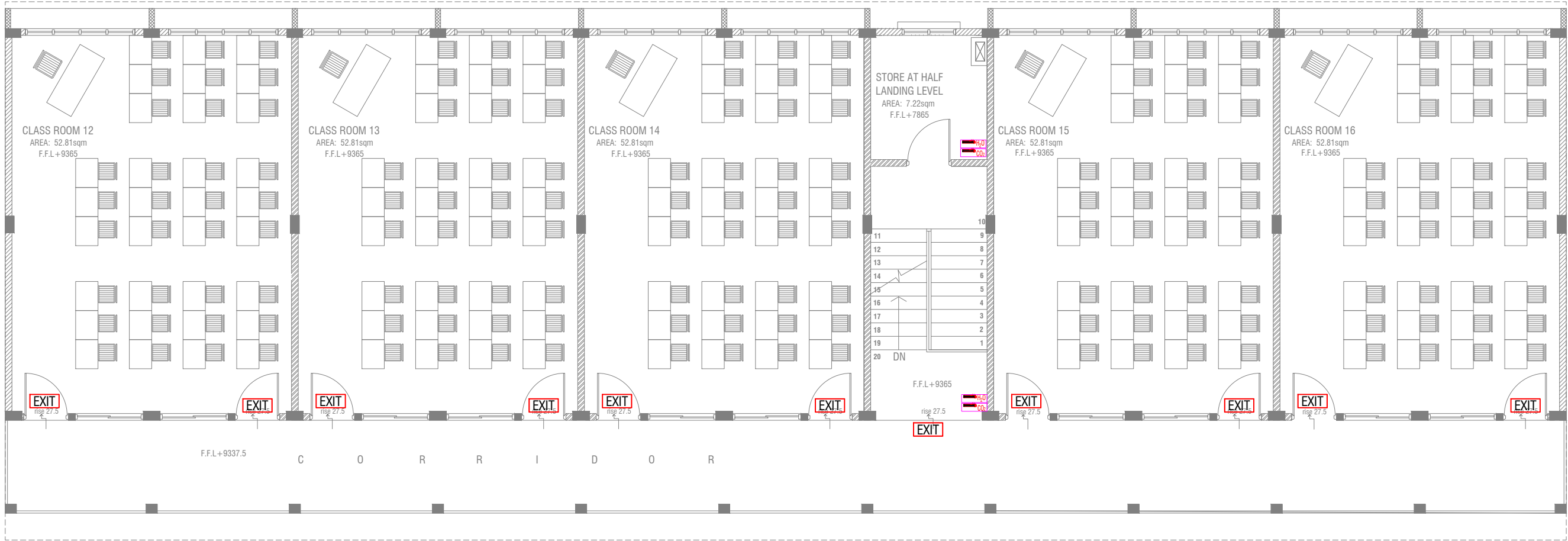
- 1.ALL PIPES SHOULD BE GALVANIZED,SCHEDULE 40.
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- 3. ALL SUPPORT/BACKET SHALL BE HOT DIPPED GALVANIZED TO 100MM
- 4.ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

-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

Mohamed Jamaludheen School,Gn.Fuvahmulah - 16 Classroom and Computer Lab (04 Storey)

Client: Ministry of Education

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



THIRD 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.)

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Mohamed Jamaludheen School, Gn.Fuvahmulah - 16 Classroom and Computer Lab (04 Storey)
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Project Number: RI/2020/006	Rev no	Date
Date: January 2021	--	-----
Architect : Mariyam Irasha Shareef	--	-----
Engineer : Mohamed Muththalib Waleed	--	-----
Drawn by : Mariyam Leevan Jaleel	--	-----
Services : Aishath Ahmed	--	-----
Interior : -	--	-----



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

Technical drawing of a water table showing dimensions and reinforcement details. The drawing includes the following specifications:

- Overall height: 1500mm
- Top reinforcement: T10 @ 150 C/C T/B
- Side reinforcement: T10 @ 150 C/C T/B
- Bottom reinforcement: T10 @ 150 C/C T/B
- Internal width: 1000mm
- Overall width: 1150mm
- Top flange thickness: 150mm
- Side flange thickness: 75mm
- Bottom flange thickness: 130mm

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

Technical drawing of a rectangular plate with two L-shaped cutouts. The overall dimensions are 1150 mm in width and 1000 mm in height. The cutouts are 50 mm wide and 150 mm high. The distance between the inner vertical faces of the cutouts is 900 mm. The distance from the left edge to the first cutout is 50 mm, and from the second cutout to the right edge is 50 mm. The distance between the horizontal faces of the cutouts is 1000 mm.

Technical drawing of the cross-section of a concrete beam. The drawing shows a rectangular cross-section with a total width of 1000 mm and a total height of 150 mm. The bottom reinforcement is located at a depth of 75 mm from the bottom edge. The top reinforcement is located at a depth of 50 mm from the top edge. The beam is labeled "SIKA SEALANT" on the left side. The bottom reinforcement is labeled "900" at the bottom center.

[illegible]

- 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