

Proposed 06 Classroom at  
Th.Thimarafushi school  
(03 Storey)

*SERVICES DRAWINGS*  
Client: Ministry of Education

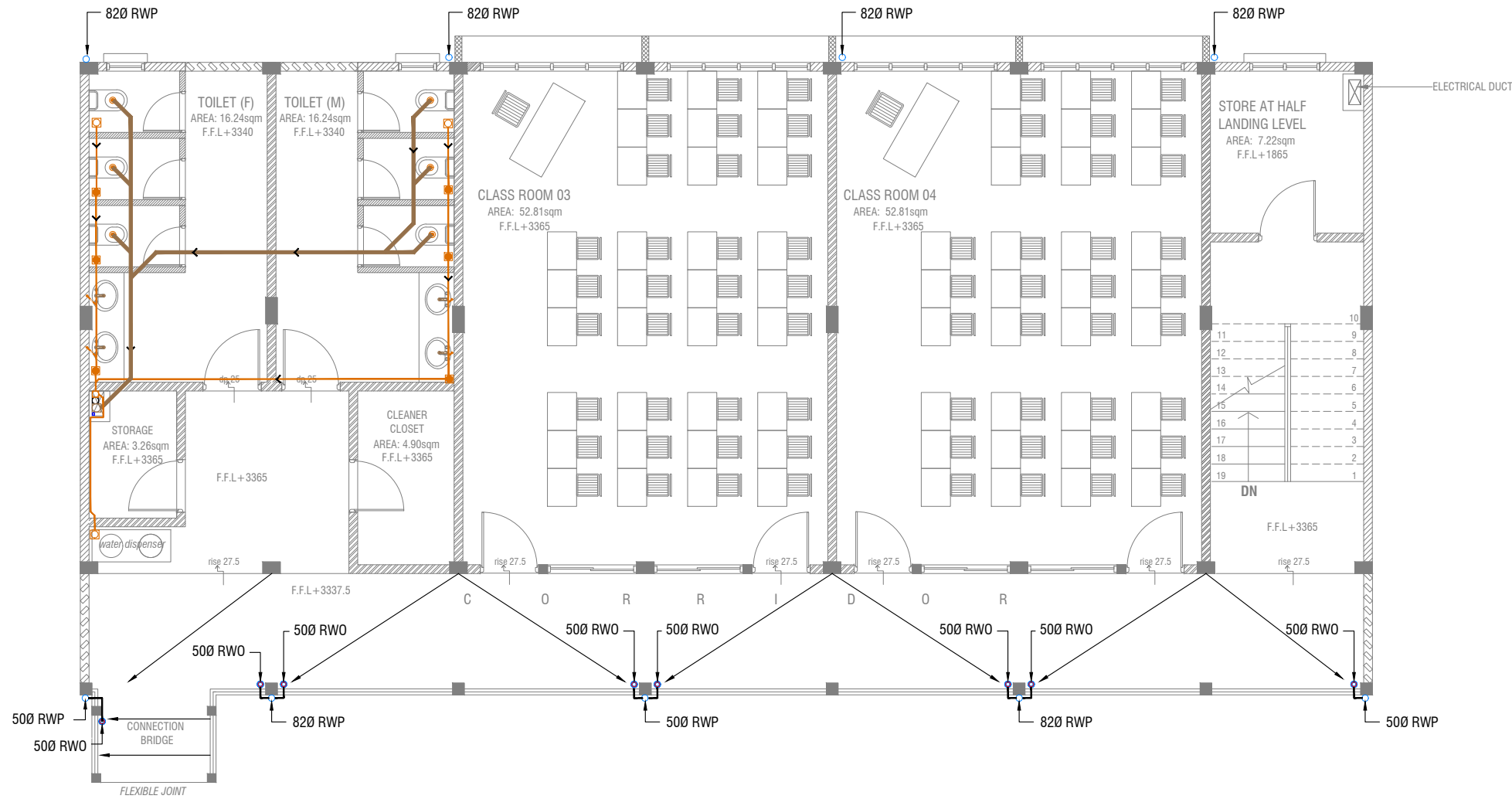


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e : info@riyan.com.mv  
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3rd floor, H. Azum, Ameeleemagu, Male'

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## FIRST - SECOND FLOOR DRAINAGE LAYOUT

SCALE 1:100



Th.Thimarafushi School - 6 Classroom (03 Storey)  
Client: Ministry of Education

| Rev no | Date       |
|--------|------------|
| 1      | 11/02/2021 |
| 2      | 11/02/2021 |
| 3      | 11/02/2021 |
| 4      | 11/02/2021 |
| 5      | 11/02/2021 |

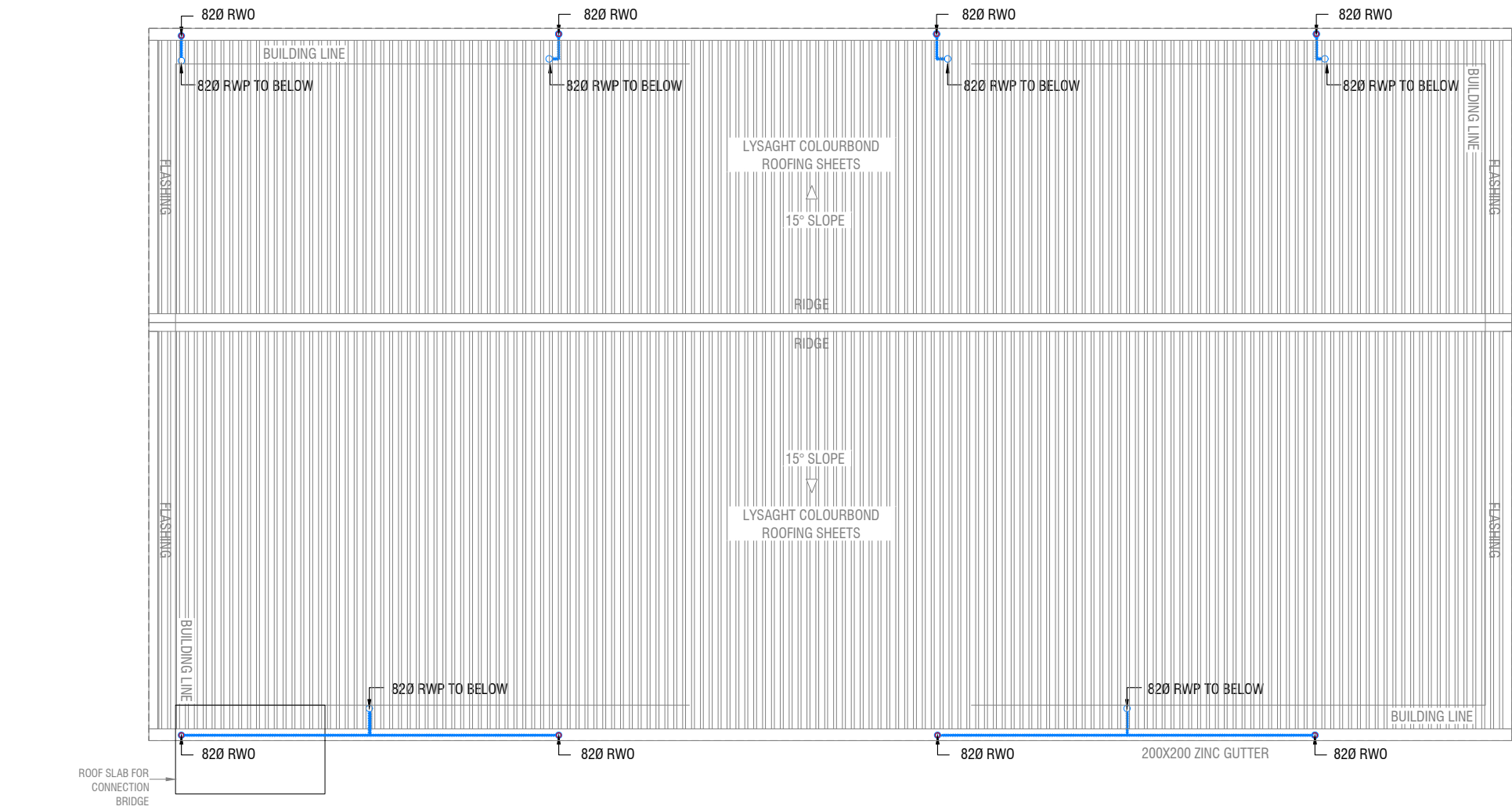
Project Number: RI/2020/006  
Date: February 2021  
Architect: Mariyam Irasha Shareef  
Engineer: Mohamed Muhtalib Waleed  
Drawn by: Mariyam Leevan Jaleel  
Services: Aishath Ahmed  
Interior: -



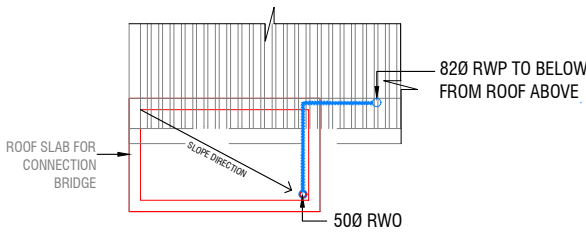
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Title: First - Second Floor  
Drainage Layout  
Page: DR 02- 03



**ROOF DRAINAGE LAYOUT**  
SCALE 1:100



**ROOF SLAB 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

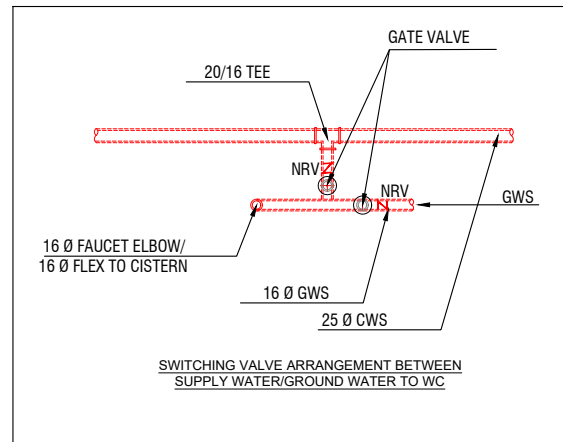
Th.Thimarafushi School - 6 Classroom (03 Storey)  
Client: Ministry of Education

| Rev no | Date       |
|--------|------------|
| 1      | 2020/02/06 |
| 2      | 2020/02/06 |
| 3      | 2020/02/06 |
| 4      | 2020/02/06 |
| 5      | 2020/02/06 |

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



**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. Thimarafushi School - 6 Classroom (03 Storey)  
Client: Ministry of Education

| Rev no | Date |
|--------|------|
| 1      |      |
| 2      |      |
| 3      |      |
| 4      |      |
| 5      |      |

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

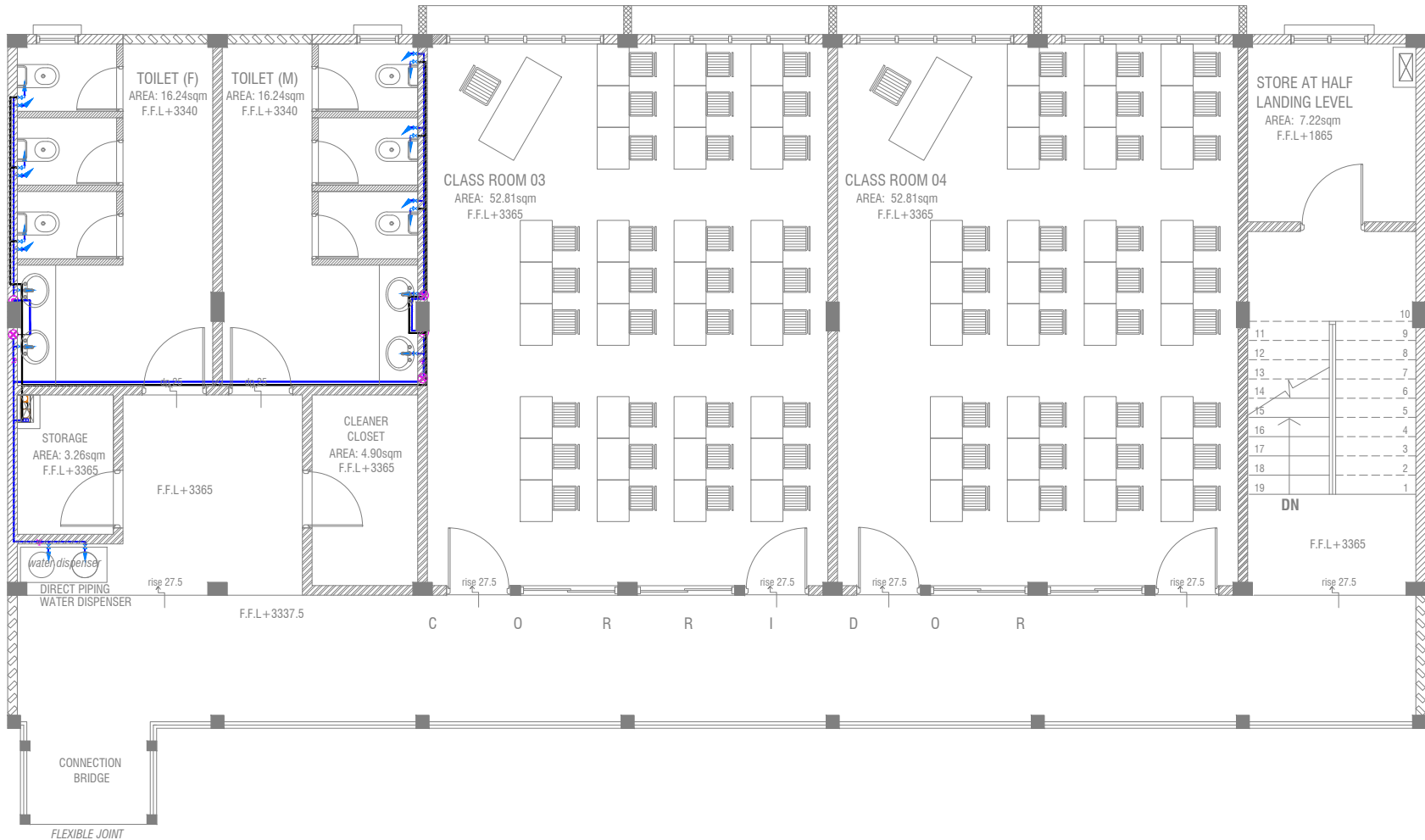


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3rd floor, H. Azum, Ameenemagu, Male'

Title: Ground Floor  
Plumbing Layout

Page: PL 01-/02



## 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
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- HWS HOT WATER SUPPLY
- GROUND WATER SUPPLY

Th.Thimarafushi School - 6 Classroom (03 Storey)

Client: Ministry of Education

Project Number: RI/2020/006

Date: February 2021

Architect: Mariyam Irasha Shareef

Engineer: Mohamed Muththalib Waleed

Drawn by: Mariyam Leevan Jaleel

Services: Aishath Ahmed

Interior: -

Rev no

Date

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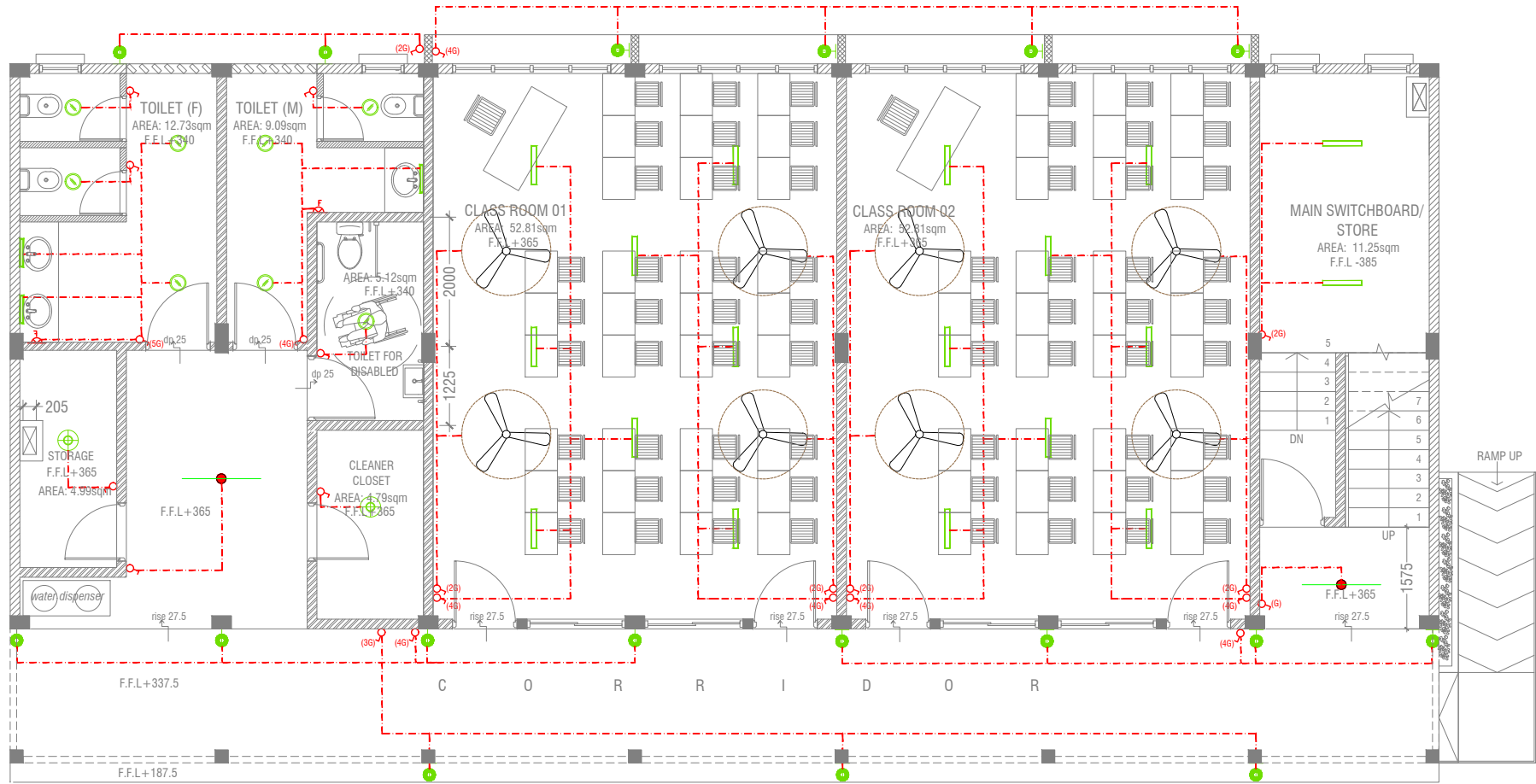
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GROUND FLOOR LIGHTING LAYOUT



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.Thimaraufushi School - 6 Classroom (03 Storey)  
Client: Ministry of Education

| Rev no | Date |
|--------|------|
| 1      |      |
| 2      |      |
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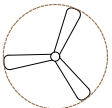
Project Number: RI/2020/006  
Date: February 2021  
Architect: Maryam Irasha Shareef  
Engineer: Mohamed Muthalib Waleed  
Drawn by: Maryam Leevan Jaleel  
Services: Aishath Ahmed  
Interior: -



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)
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- EXHAUST

CL2 LED TUBE LIGHT WITH OPAL CASING



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FIRST - SECOND FLOOR LIGHTING LAYOUT

SCALE 1:100



Th. Thimarafushi School - 6 Classroom (03 Storey)

Client: Ministry of Education

Project Number: RI/2020/006

Date: February 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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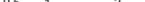
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**SCALE 1:100**

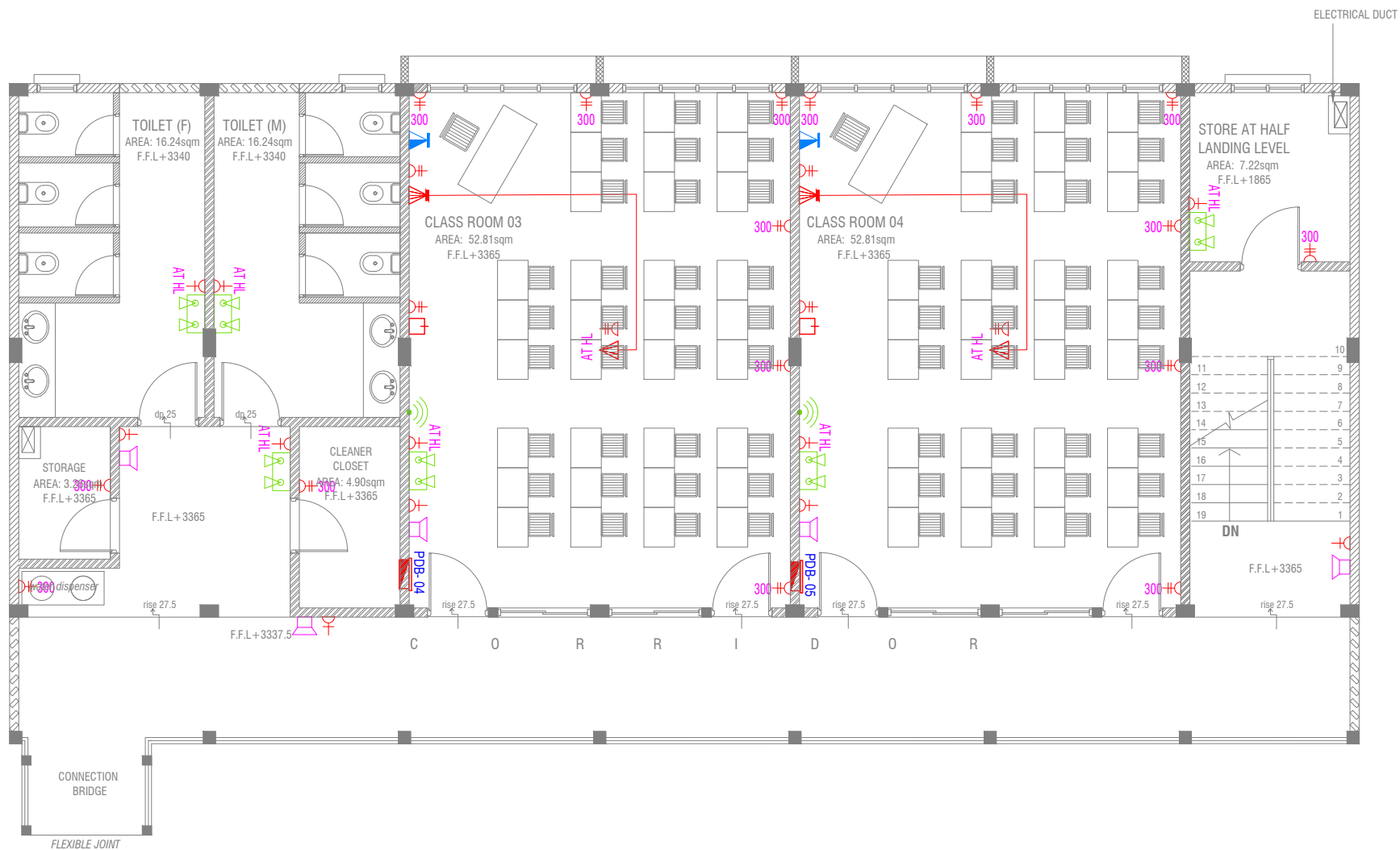


1. ALL WIRING TO BE OF APPROVED STANDARDS
2. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
5. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

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

ALL ELECTRICAL COMPONENT TO BE CONNECTED  
TO THEIR RESPECTIVE DB

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



FIRST - 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
- TWO GANG TV/SAT 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.Thimarafushi School - 6 Classroom (03 Storey)  
Client: Ministry of Education

Project Number: RI/2020/006

Date: February 2021

Architect: Maryam Irasha Shareef

Engineer: Mohamed Muhtalib Waleed

Drawn by: Maryam Leevan Jaleel

Services: Aishath Ahmed

Interior: -

Rev no

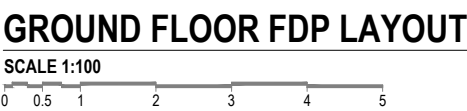
Date

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Title: First - Second Floor  
Power Layout

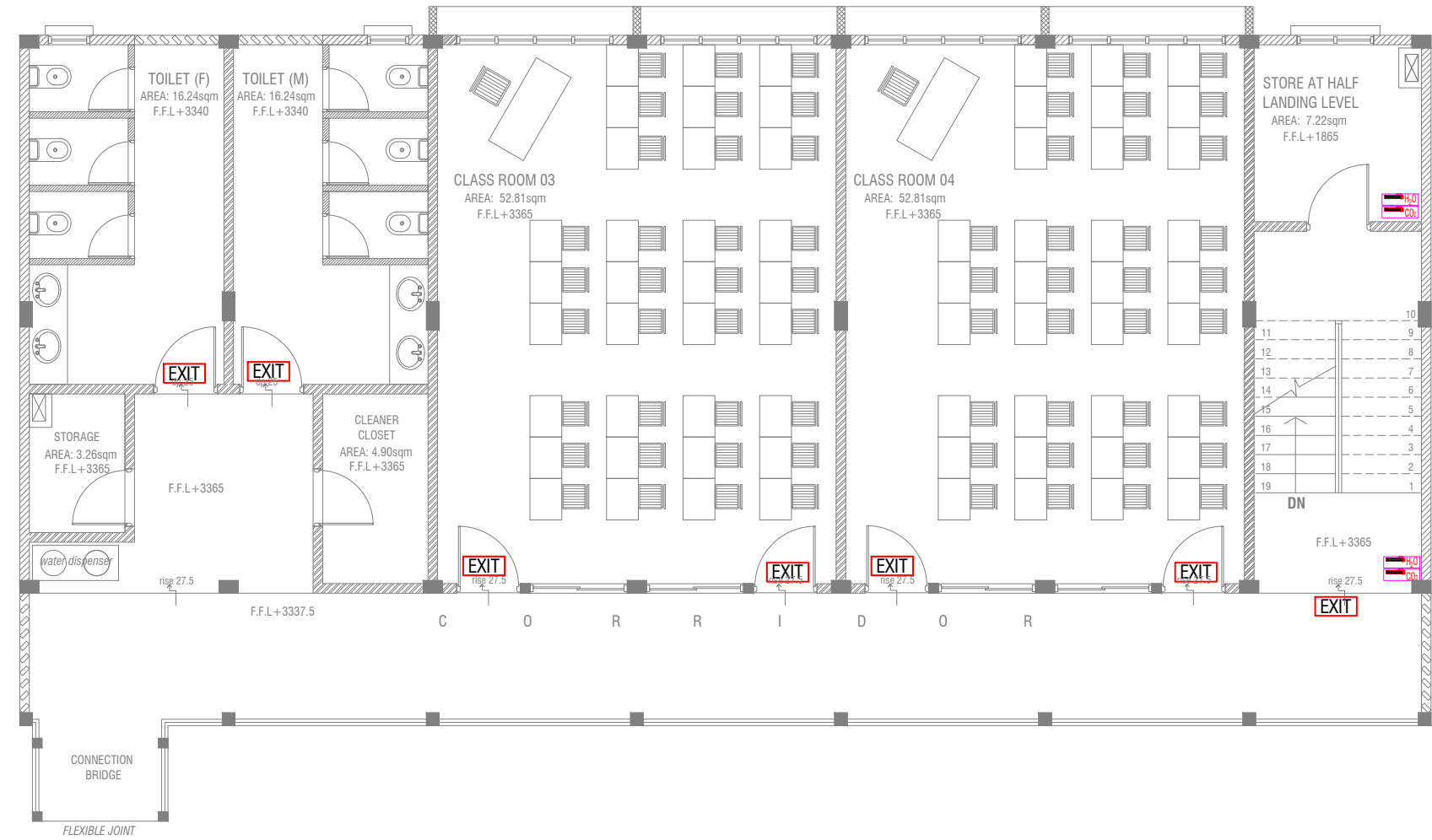
Page: EP 02-02



|   |  |
|---|--|
|  | 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 RATED DOOR SHOULD COME WITH PACKING (EXPANSION SEAL TRAP)




- 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 - SECOND FLOOR FDP LAYOUT



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/BRAKET 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.Thimarafushi School - 6 Classroom (03 Storey)  
Client: Ministry of Education

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



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Title: First - Second Floor  
FDP Layout

Page: FDP 02-02

Technical drawing of a circular part. The drawing shows two concentric circles. The outer circle is labeled with a diameter dimension of  $\varnothing 1150$ . The inner circle is labeled with a diameter dimension of  $\varnothing 1000$ . The circles are divided into segments by radial lines. The drawing is oriented vertically, with the dimensions labeled along the vertical axis.

**SCALE 1:20**



Technical drawing of a water table cross-section. The drawing shows a rectangular structure with reinforcement bars (T10) at 150 C/C T/B. The top and bottom reinforcement bars are labeled "T10 @ 150 C/C T/B". The vertical reinforcement bars are labeled "T10 @ 150 C/C T/B". The drawing includes dimensions: 1500mm for the total height, 150mm for the top reinforcement bar height, 75mm for the vertical reinforcement bar height, 1000mm for the total width, and 1150mm for the width of the reinforcement bars. A note on the left states: "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 located at the bottom corners, each with a width of 900 mm and a height of 150 mm. The remaining material at the corners is 50 mm wide and 50 mm high. The drawing includes dimension lines and arrows indicating the measurements.

- 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**

