

Proposed 2 Classroom, Health Room, Library at
Ga.Dhevvadhoo Sulthan Mohamed School
(02 Storey)

SERVICES DRAWINGS
Client: Ministry of Education

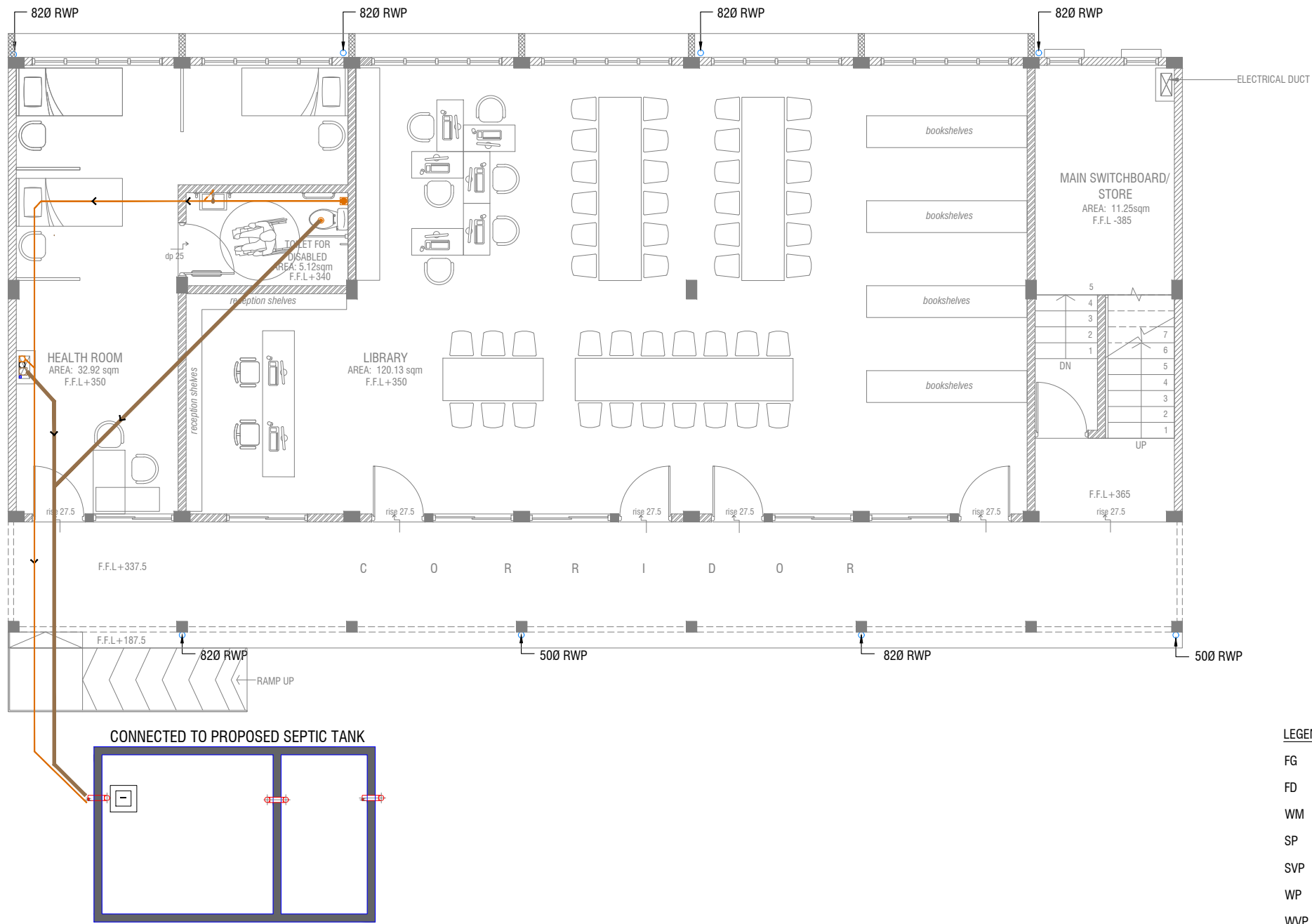


RIYAN PRIVATE LIMITED

t : +9603315049 f : +9603310776
e : info@riyan.com.mv
w : www.riyan.com.mv
3rd floor, H. Azum, Arneeneemagu, Male'

TABLE OF CONTENTS

DRAWING No.	TITLE	REVISION No.	DATE	REMARKS
S E R V I C E S		---	---	---
DR - 01 /03	GROUND FLOOR DRAINAGE LAYOUT	---	---	---
DR - 02 /03	FIRST FLOOR DRAINAGE LAYOUT	---	---	---
DR - 03 /03	ROOF DRAINAGE LAYOUT	---	---	---
PL - 01 / 02	GROUND FLOOR PLUMBING LAYOUT	---	---	---
PL - 02 / 02	FIRST FLOOR PLUMBING LAYOUT	---	---	---
EL - 01 / 02	GROUND FLOOR LIGHTING LAYOUT	---	---	---
EL - 02 / 02	FIRST FLOOR LIGHTING LAYOUT	---	---	---
EP - 01 / 02	GROUND FLOOR POWER LAYOUT	---	---	---
EP - 02 / 02	FIRST FLOOR POWER LAYOUT	---	---	---
FDP - 01 / 02	GROUND FLOOR FDP LAYOUT	---	---	---
FDP - 02 / 02	FIRST FLOOR FDP LAYOUT	---	---	---
DETAIL - 01 / 01	SEPTIC TANK DETAIL	---	---	---



GROUND 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 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.

Ga.Dhevavadhoo Sulthan Mohamed School
2 Classroom, Health Room & Library - 2 Storey
Client: Ministry of Education

Rev no	Date
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	

RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameenemagu, Male'

Title: Ground Floor
Drainage Layout

Page: DR 01-03

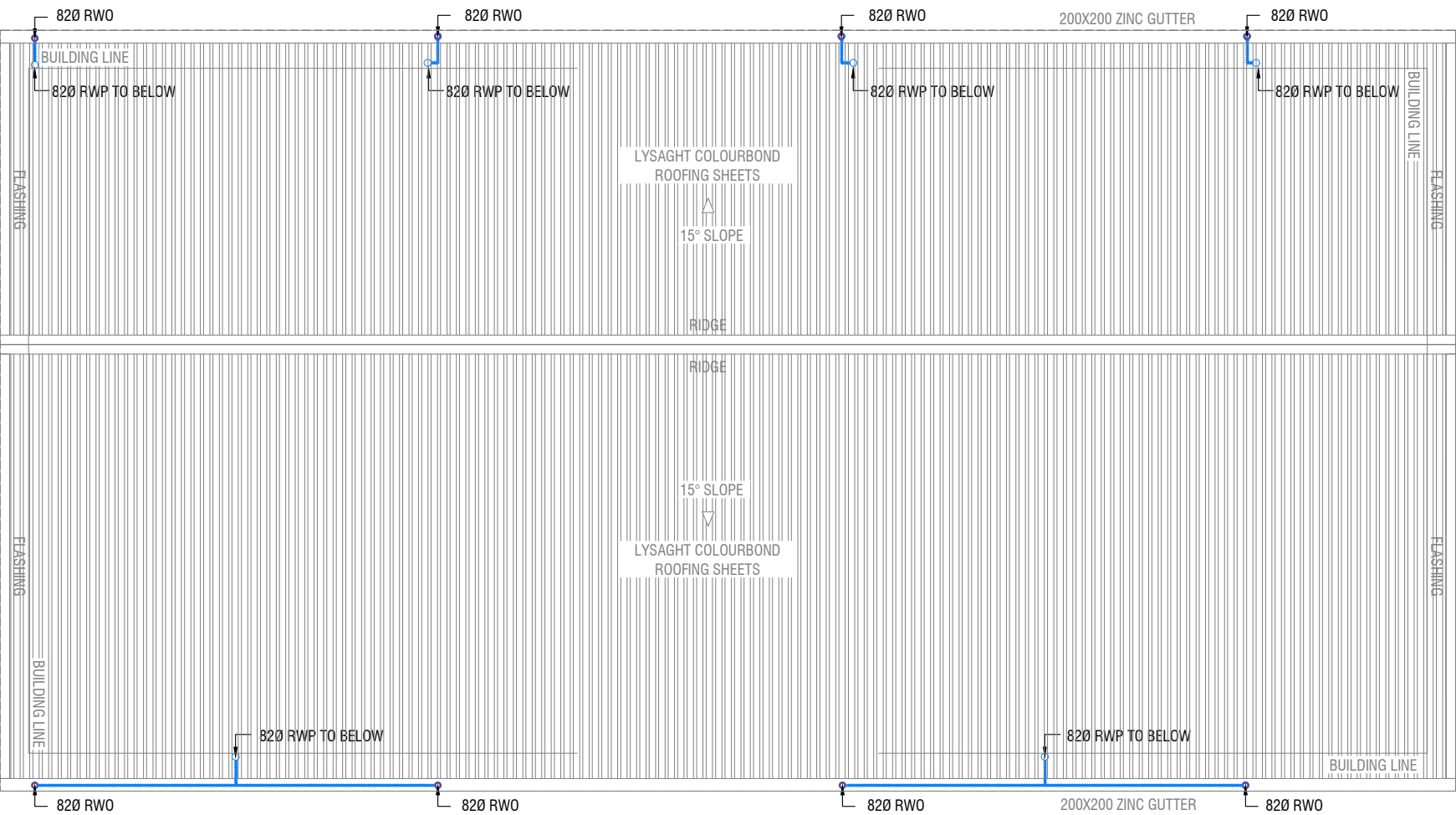


NOTE:
- ALL SOIL AND WASTE PIPES TO BE UNDER THE SLAB LEVEL.



t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameenemagu, Male'

Page: DR 02- 03



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

Ga.Dhevvhadhoo Sulthan Mohamed School
2 Classroom, Health Room & Library - 2 Storey

Client: Ministry of Education

Rev no	Date
-	-
-	-
-	-
-	-
-	-

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

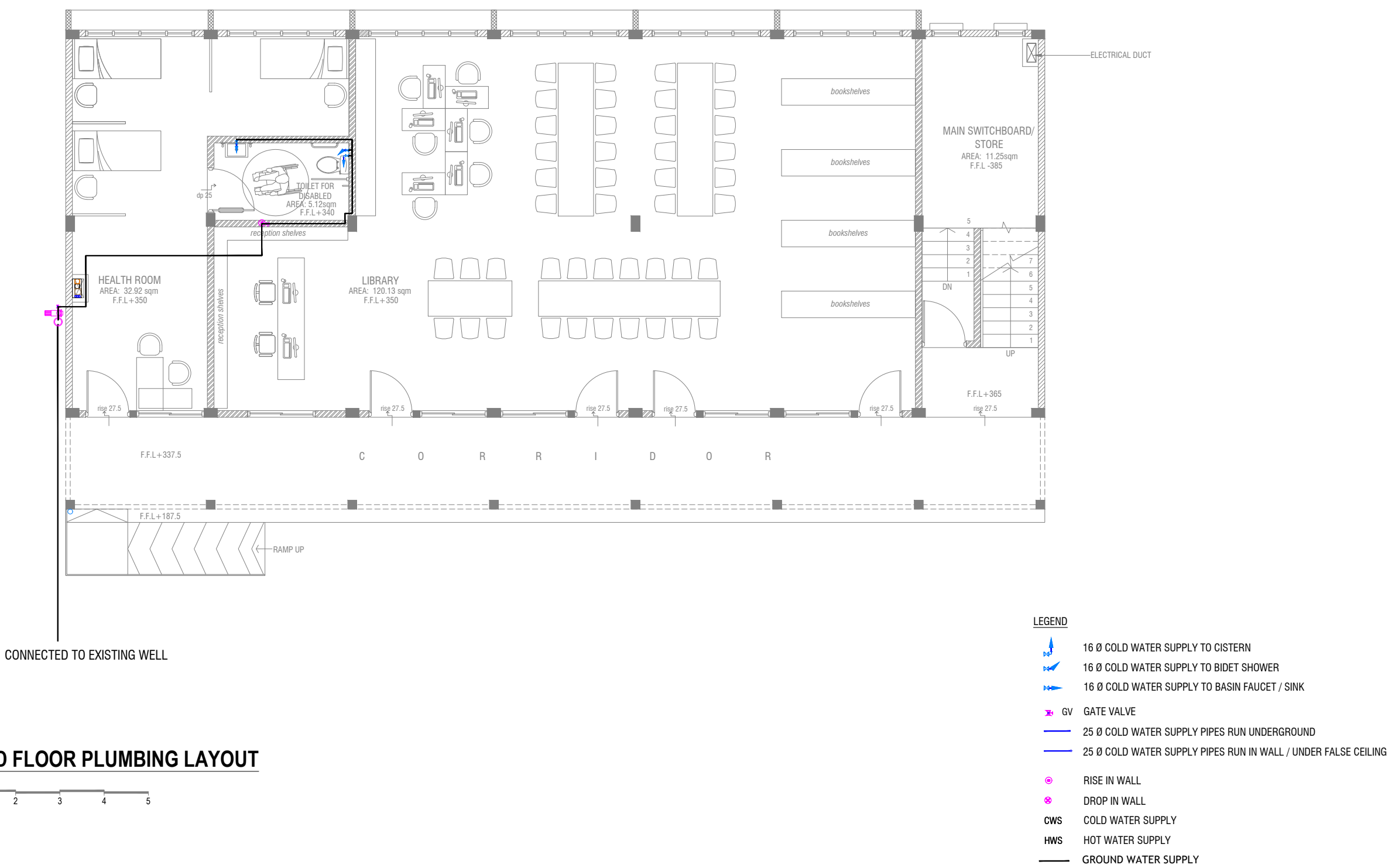


RIYAN PRIVATE LIMITED

t: +9603315049 f: +9603310776
e: info@riyan.com.mv
w: www.riyan.com.mv
3rd floor, H. Azum, Ameenemaguu, Male'

Title: Roof
Drainage Layout

Page: DR 03-03



GROUND FLOOR PLUMBING LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

Ga.Dhevadhoo Sulthan Mohamed School
2Classroom,Health Room & Library - 2 Storey
Client: Ministry of Education

Rev no	Date
1	11/01/2021
2	11/01/2021
3	11/01/2021
4	11/01/2021
5	11/01/2021

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



FIRST FLOOR PLUMBING LAYOUT



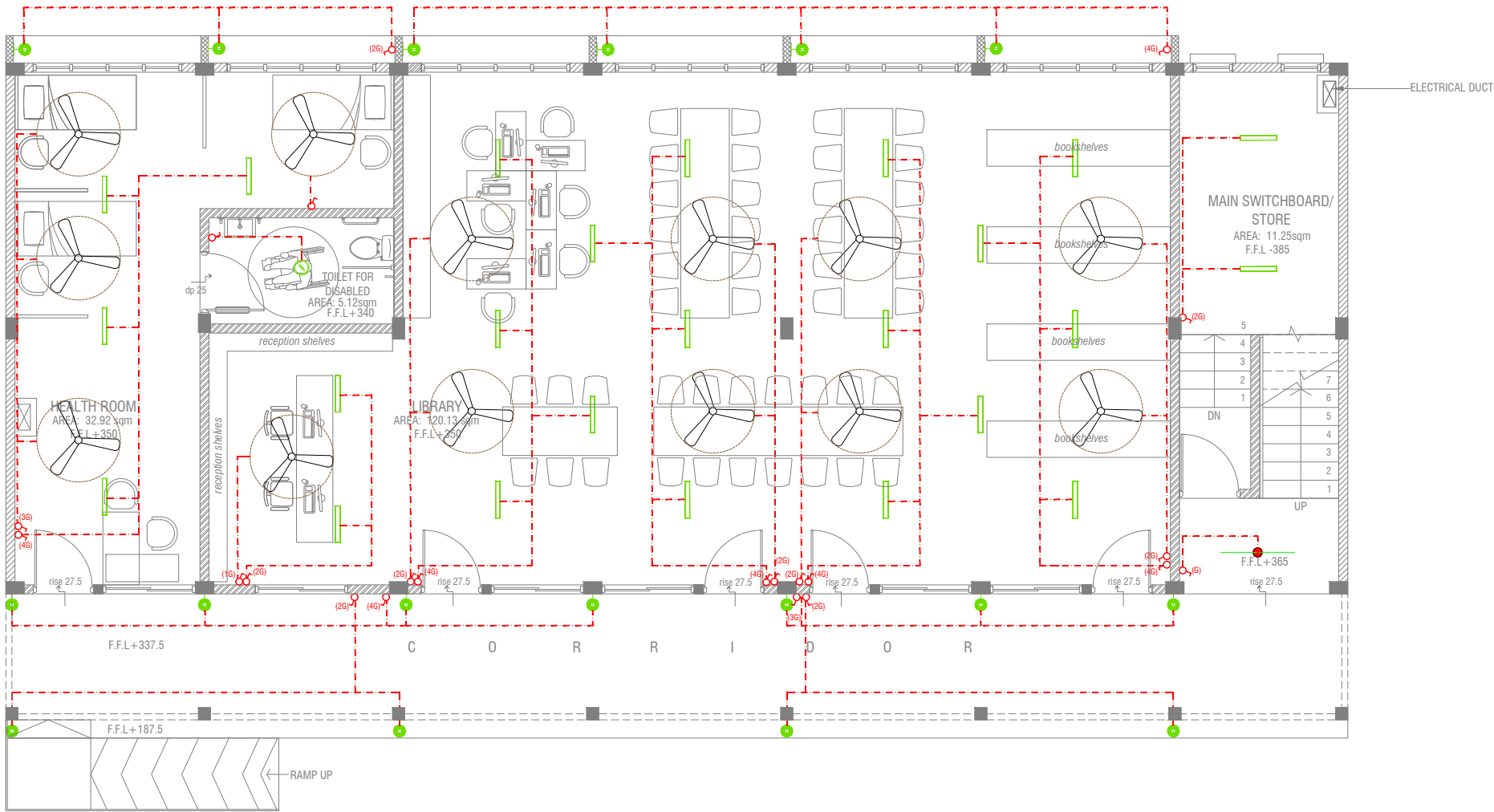
- LEGEND
- 16 Ø COLD WATER SUPPLY TO CISTERN
 - 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
 - 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
 - GV GATE VALVE
 - 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
 - 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
 - RISE IN WALL
 - DROP IN WALL
 -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

Ga.Dhevvhadoo Sulthan Mohamed School
2 Classroom, Health Room & Library - 2 Storey
Client: Ministry of Education

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

Rev no	Date
1	
2	
3	
4	
5	

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



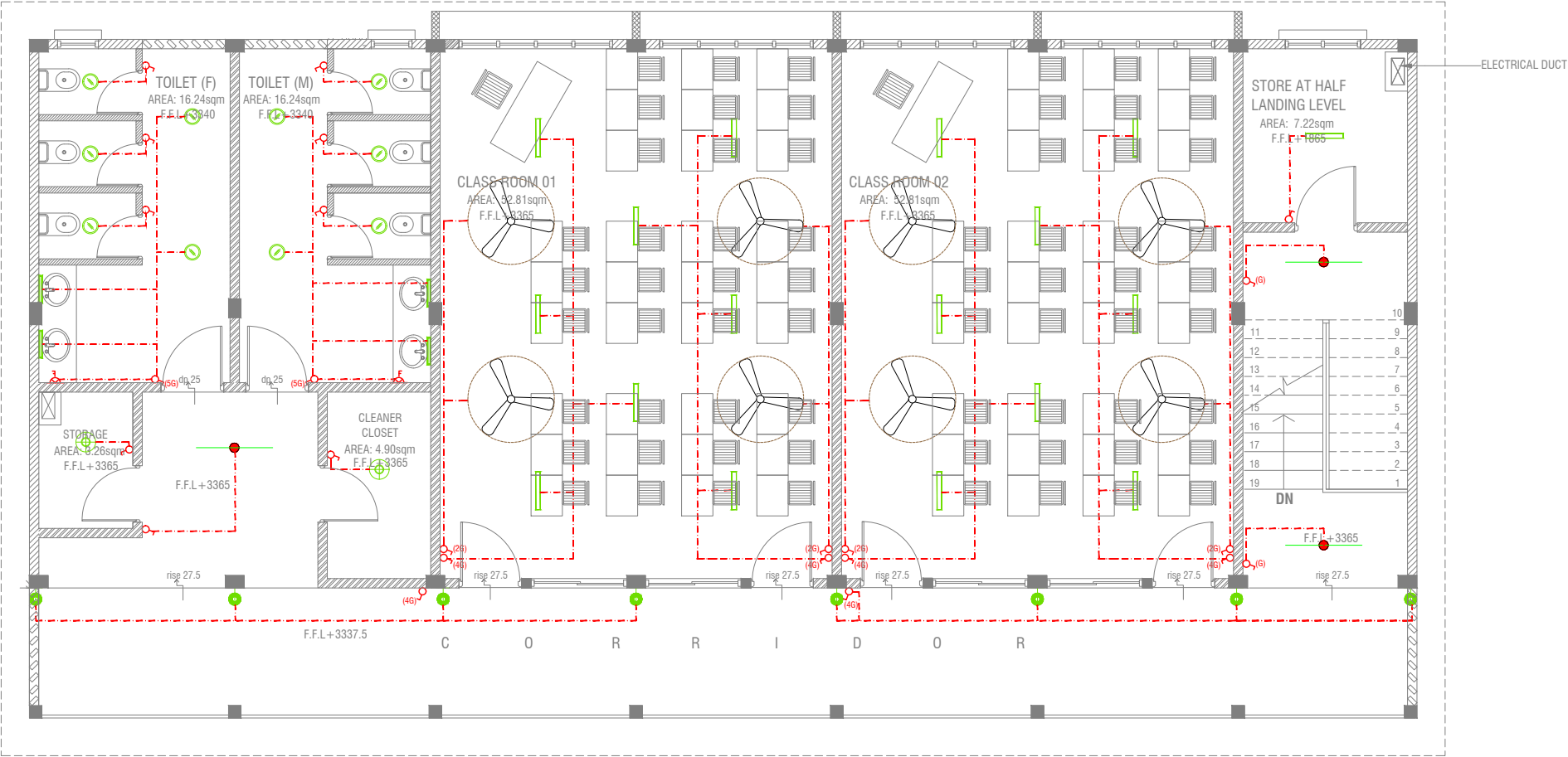
NOTE:

- 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

Ga.Dhevavadhoo Sulthan Mohamed School
2 Classroom, Health Room & Library - 2 Storey
Client: Ministry of Education

Rev no	Date
1	
2	
3	
4	

Project Number: RI/2020/006
Date: January 2021
Architect: Mariyam Irasha Shareef
Engineer: Mohamed Muhiithab Waleed
Drawn by: Mariyam 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)
- 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

FIRST FLOOR LIGHTING LAYOUT

SCALE 1:100



Ga.Dhevavadhoo Sulthan Mohamed School
2 Classroom, Health Room & Library - 2 Storey

Client: Ministry of Education

Rev no	Date
1	2020/01/06
2	2020/01/06
3	2020/01/06
4	2020/01/06
5	2020/01/06
6	2020/01/06
7	2020/01/06
8	2020/01/06
9	2020/01/06
10	2020/01/06
11	2020/01/06
12	2020/01/06
13	2020/01/06
14	2020/01/06
15	2020/01/06
16	2020/01/06
17	2020/01/06
18	2020/01/06
19	2020/01/06

Project Number: RI/2020/006

Date: January 2021

Architect : Mariyam Irasha Shareef

Engineer : Mohamed Muhiyeldin Waleed

Drawn by : Mariyam Leevan Jaleel

Services : Aishath Ahmed Interior



RIYAN PRIVATE LIMITED

t : +9603315049 f : +9603310776
e : info@riyan.com.mv
w : www.riyan.com.mv
3rd floor, H. Azum, Ameenemagau, Male'

Title: First Floor
Lighting Layout

Page: EL 02-02

[illegible]

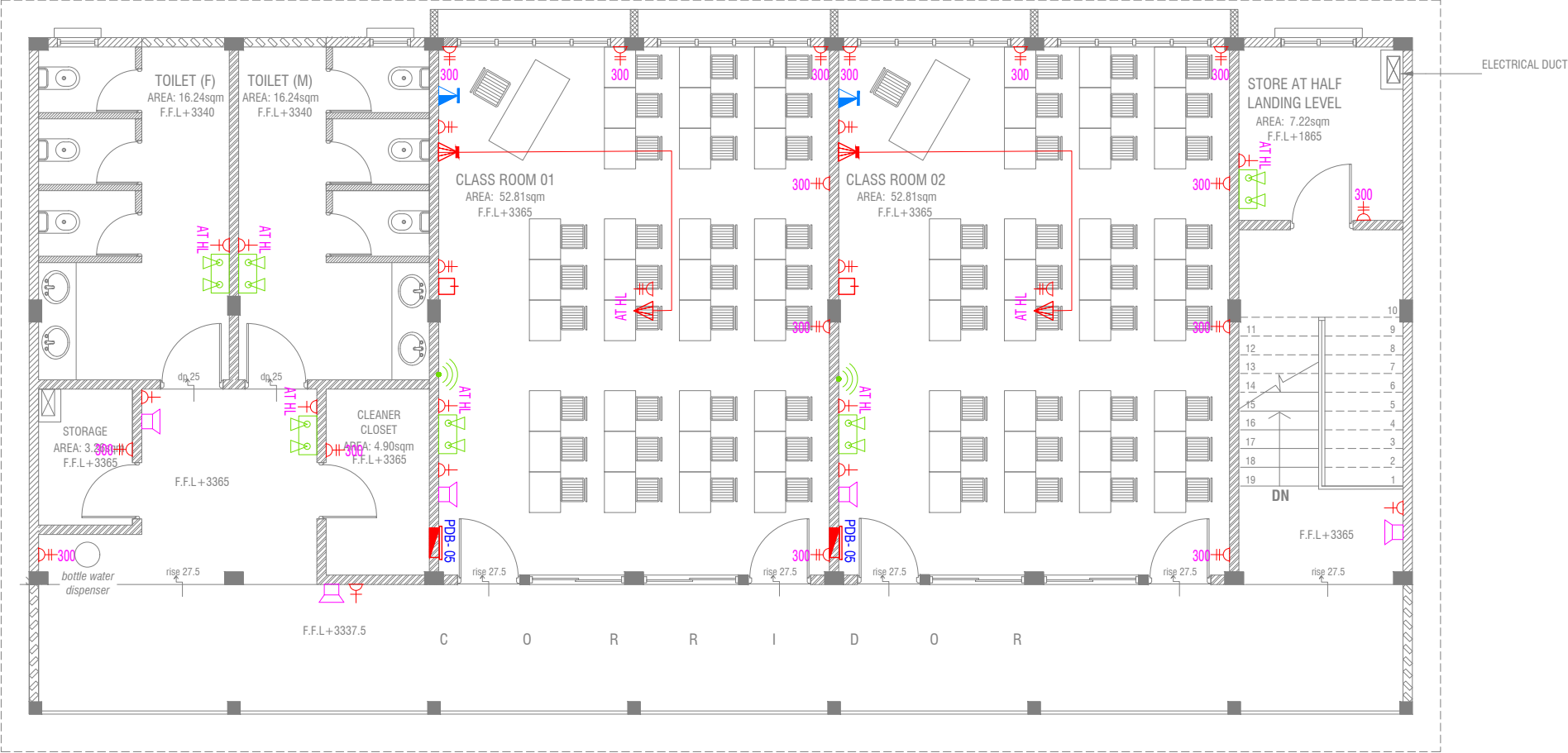
SCALE 1:100

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
- HDMI,VGA & RAC AV SOCKET
- DISTRIBUTION BOX
- SPEAKERS
- HDMI,VGA & RAC AV TWIN SOCKET
- COMPUTER NETWORK OUTLET
- 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



- 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

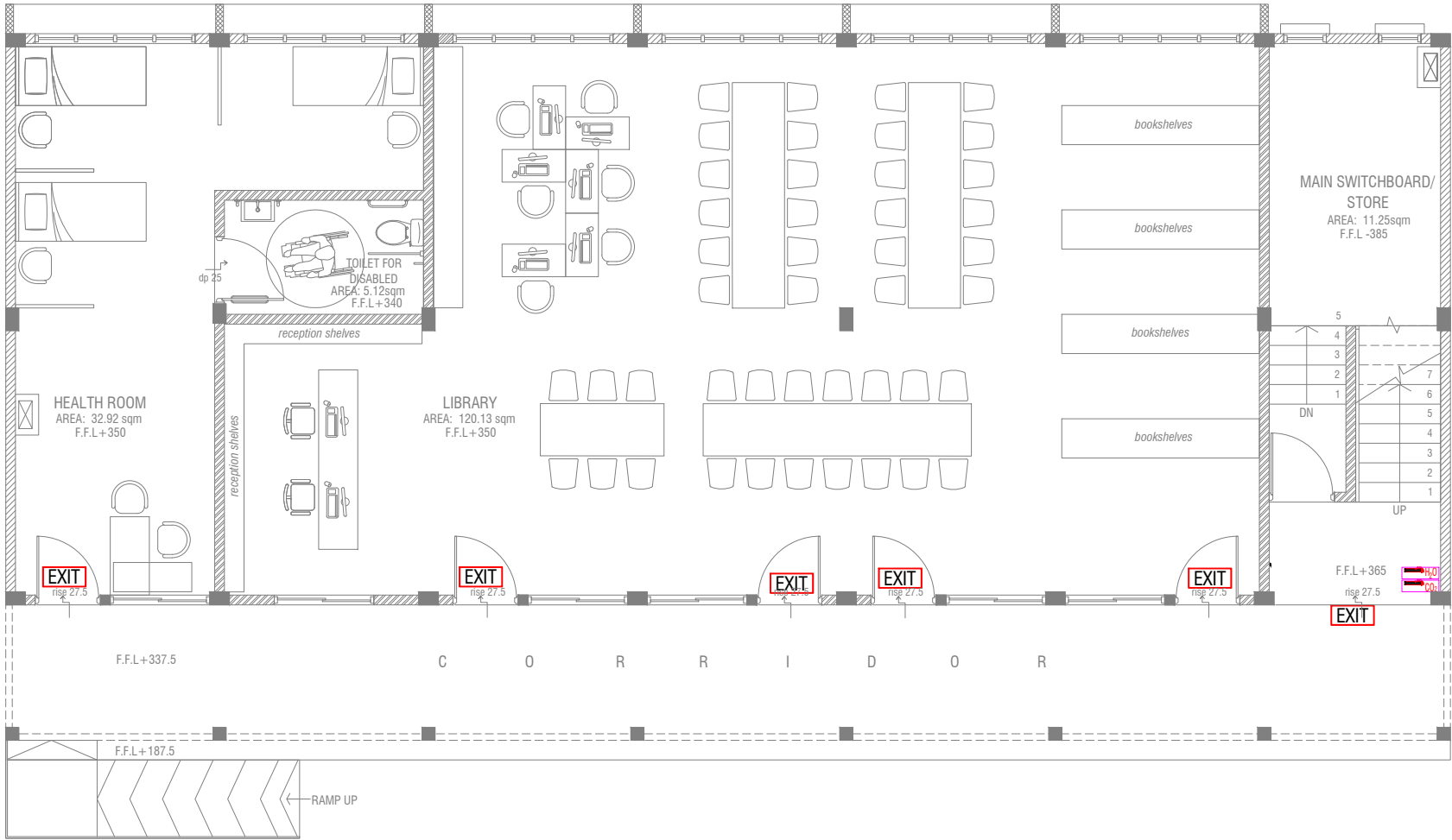
SPEAKERS TO BE CONNECTED TO THE MAIN PA SYSTEM OF THE SCHOOL

FIRST FLOOR POWER LAYOUT

SCALE 1:100

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

Ga.Dhevadhoo Sulthan Mohamed School
2 Classroom,Health Room & Library - 2 Storey
Client: Ministry of Education

Rev no	Date
--	-----
--	-----
--	-----
--	-----

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



RIYAN PRIVATE LIMITED
t : +9603315049 f : +9603310776
e : info@riyan.com.mv
w : www.riyan.com.mv
3rd floor, H. Azum, Ameenemagau, Male'

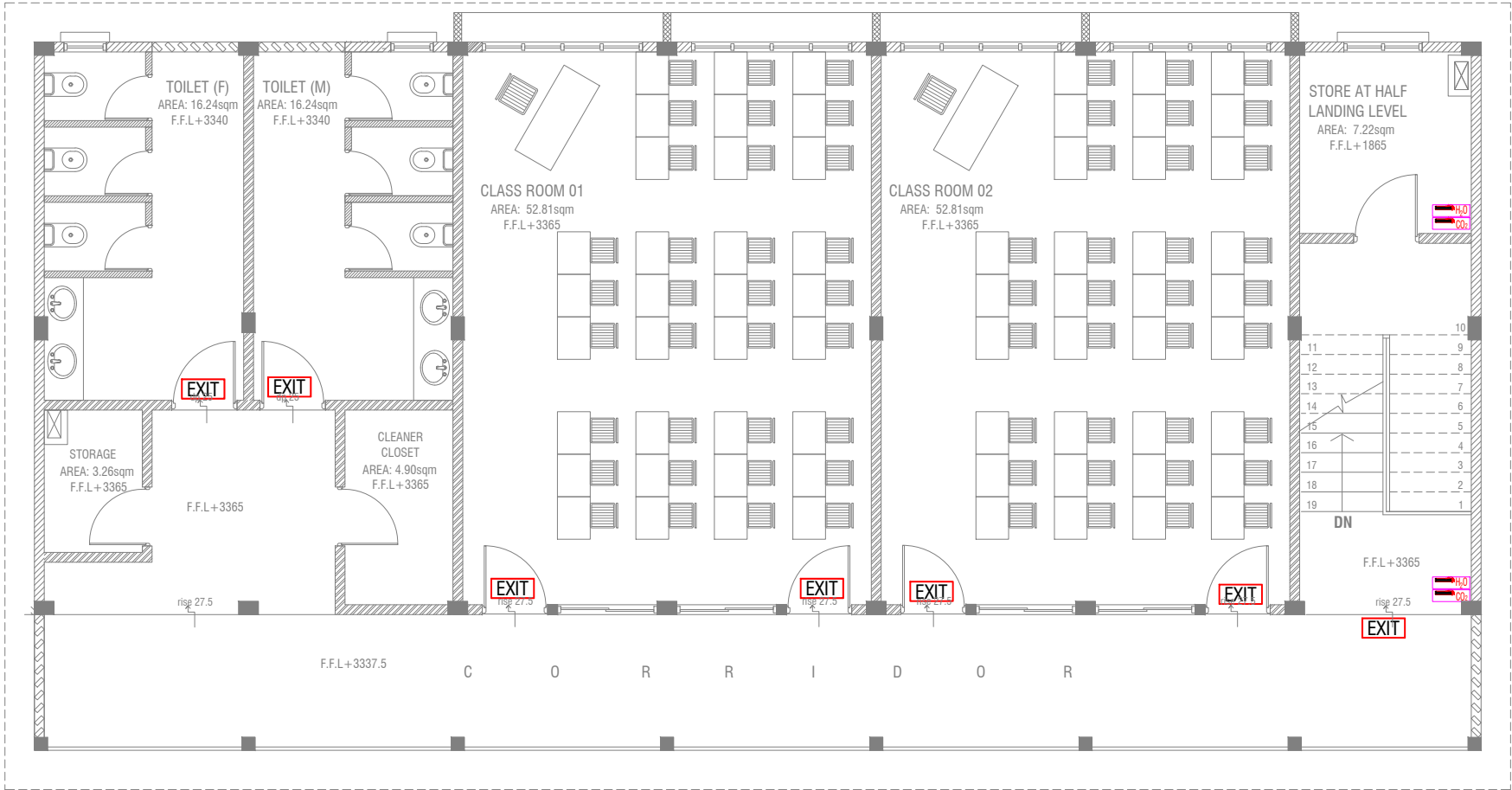
Title: Ground Floor
FDP Layout

Page: FDP 01-02

The contents of these drawings remain as a property of Riyam Private Limited. Any use other than those expressly stated is a violation of this copyright

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.

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

Ga.Dhewadhoo Sulthan Mohamed School
2Classroom,Health Room & Library - 2 Storey
Client: Ministry of Education

Rev no	Date
-	-
-	-
-	-
-	-

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 : -



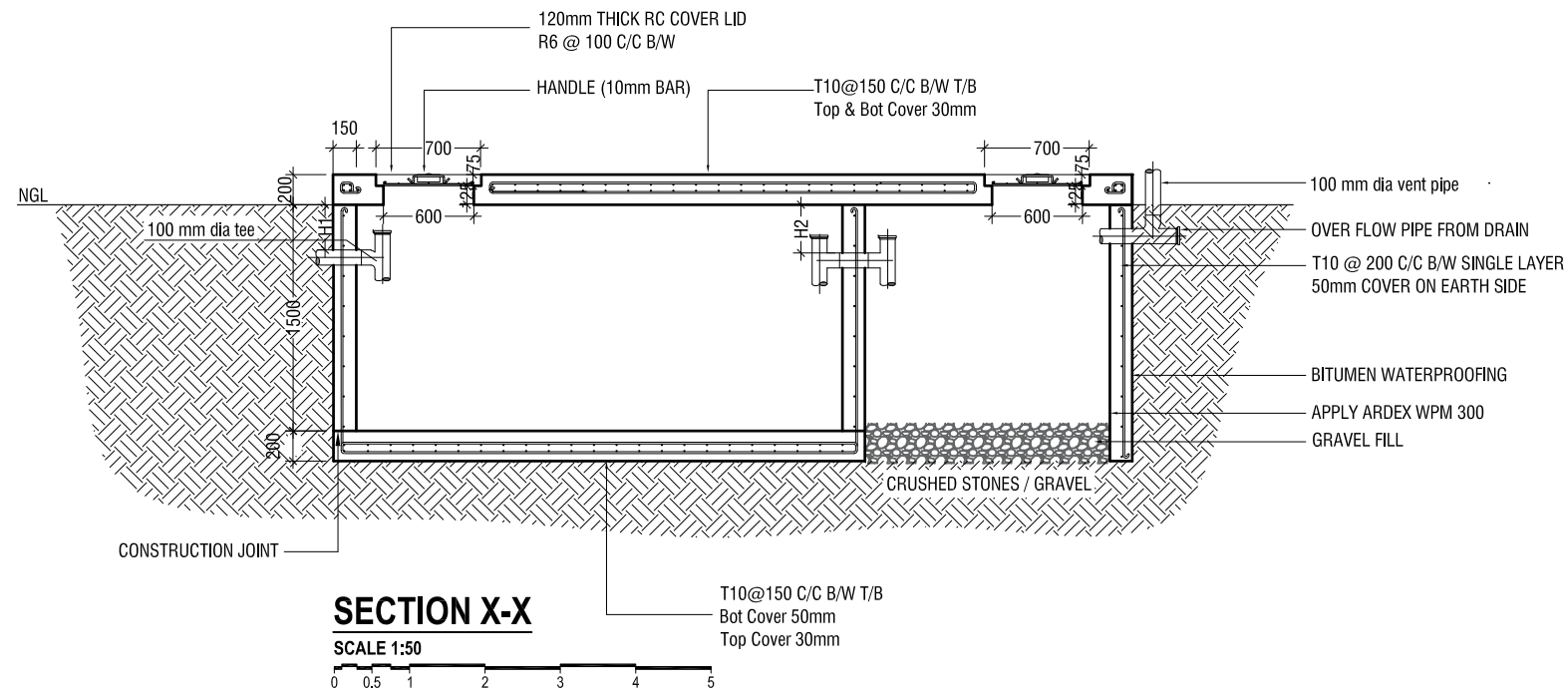
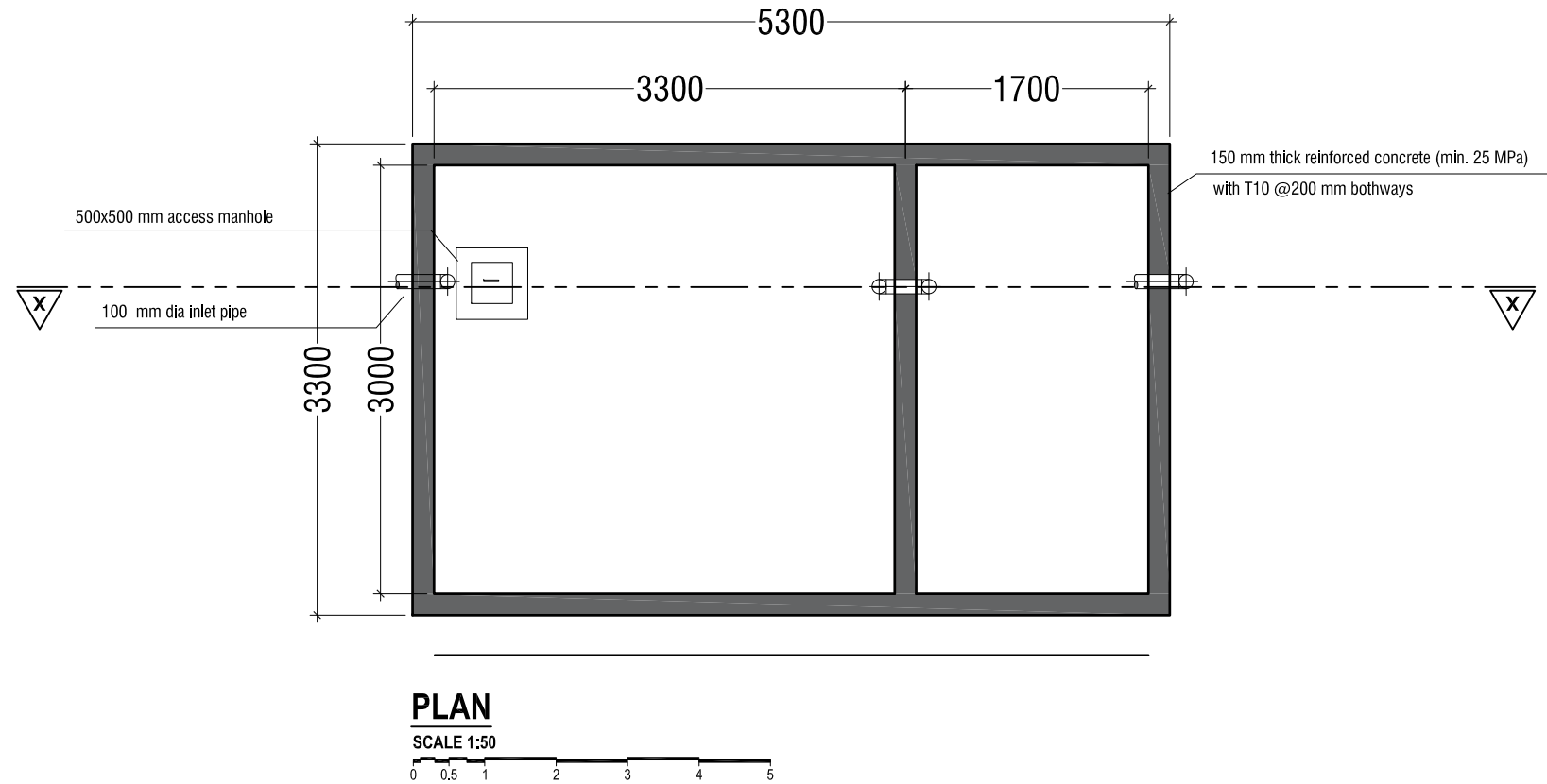
RIYAN PRIVATE LIMITED

t : +9603315049 f : +9603310776
e : info@riyan.com.mv
w : www.riyan.com.mv
3rd floor, H. Azum, Ameenemoggu, Male'

Title: First Floor
FDP Layout

Page: FDP 02-02

The contents of these drawings remain as a property of Riyan Private Limited. Any use other than those expressly stated is a violation of this copyright



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



Ga.Dhewadhoo Sulthan Mohamed School
2 Classroom, Health Room & Library - 2 Storey
Client: Ministry of Education

Rev no	Date
--	----
--	----
--	----
--	----
--	----

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



RYAN PRIVATE LIMITED

t : +9603315049 f : +9603310776
e : info@ryan.com.mv
w : www.ryan.com.mv
3rd floor, H. Azum, Ameermeenagu, Male*

Title: Septic Tank Detail

Page: Detail - 01/01

The contents of these drawings remain as a property of RYAN Private Limited. Any use other than those expressly stated is a violation of this copyright.