

# Proposed Multipurpose Hall & 4 Classroom Building at AA.Maalhos School

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



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t : +9603315049 f : +9603310776  
e : info@riyan.com.mv

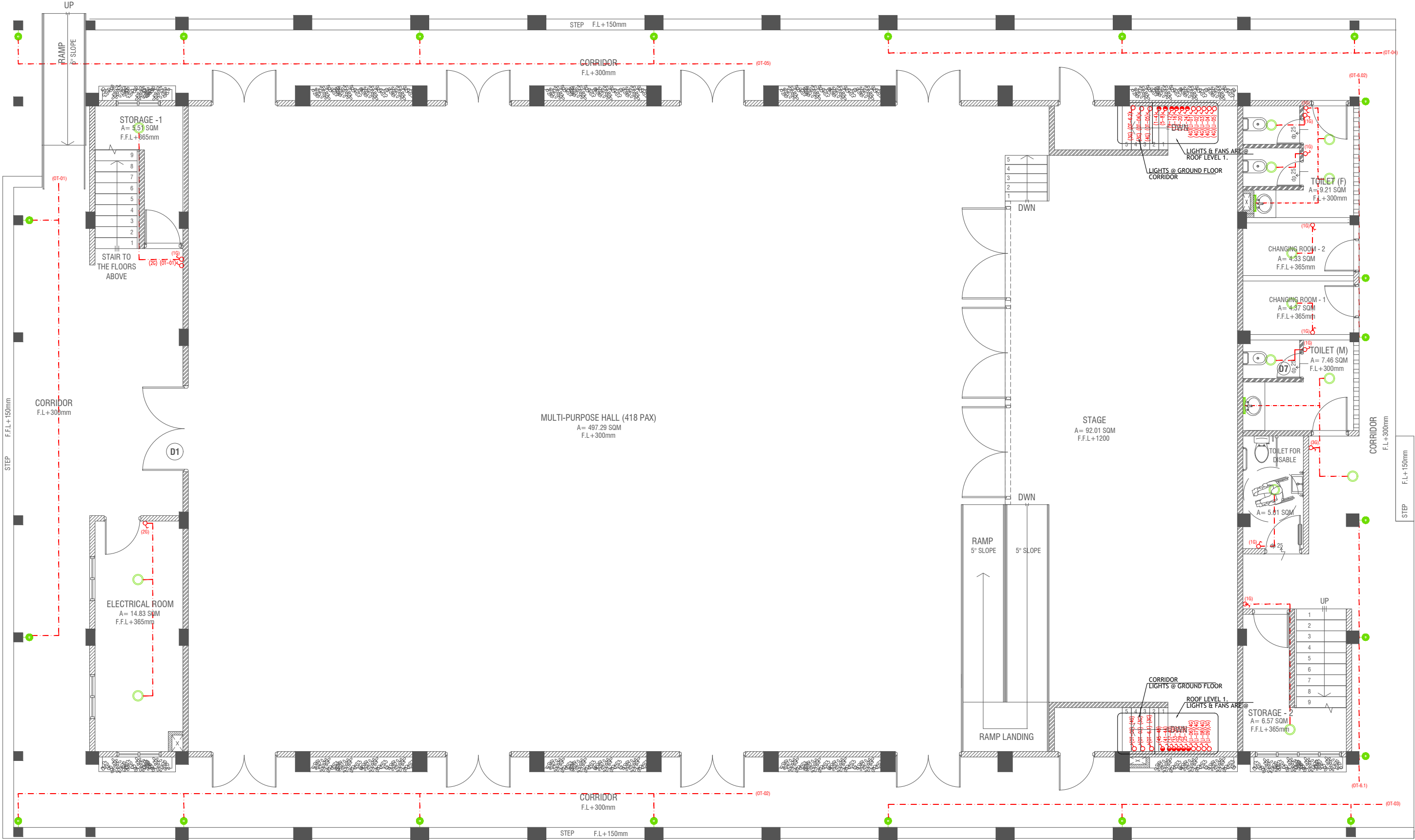
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3rd floor, H. Azum, Armeenemagau, Male'

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## GROUND FLOOR LIGHTING LAYOUT

SCALE 1:100



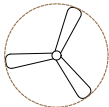
### LEGEND



4 x 55W PLL Lamps  
(Wire guard, Polycarbonate diffuser, Emergency and dimming versions)

C2

LED CEILING DOWN LIGHT ( 18W)



CEILING FAN (52" - 54")

WPD

40W (IP 65) OUT DOOR WALL LIGHT

ML

MIRROR LIGHT (7W LED LIGHT)



LIGHT SWITCH



CEILING FAN SWITCH (4G)



CIRCUIT LINE



SWITCHING LINE

### 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

### NOTE:

-THE DOWNROD OF THE FANS IN THE HALL SHOULD BE NOT LESS THAN 60"

AA Maalhos School Multipurpose Hall & 4 Classroom  
Client: Ministry of Education

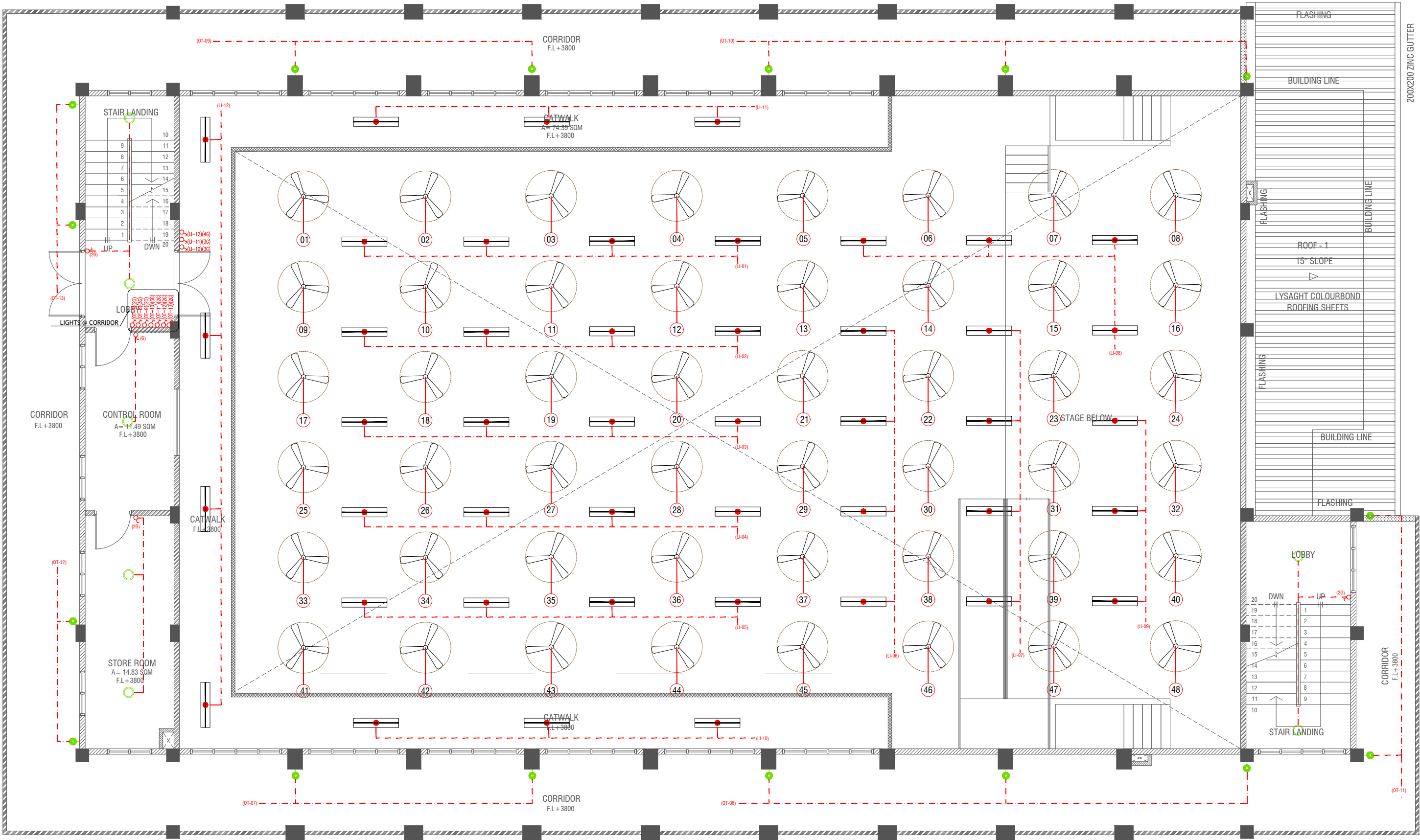
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2	2023/05/04
3	2023/05/04
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6	2023/05/04
7	2023/05/04
8	2023/05/04
9	2023/05/04



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t: +963 250491 f: +963 250776  
e: info@riyan.com.jo  
www.riyan.com.jo  
3rd floor, H. Azam, Amman, Jordan

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


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## FIRST FLOOR LIGHTING LAYOUT


SCALE 1:100


### LEGEND





 4 x 55W PLL Lamps  
(Wire guard, Polycarbonate diffuser, Emergency and dimming versions)

C2  LED CEILING DOWN LIGHT ( 18W)

 CEILING FAN (52" - 54")

WPD  40W (IP 65) OUT DOOR WALL LIGHT

ML  MIRROR LIGHT (7W LED LIGHT)

 LIGHT SWITCH  
 CEILING FAN SWITCH  
 CIRCUIT LINE  
 SWITCHING LINE

NOTE:  
-THE DOWNROD OF THE FANS IN THE HALL SHOULD BE NOT LESS THAN 60"

### NOTE:

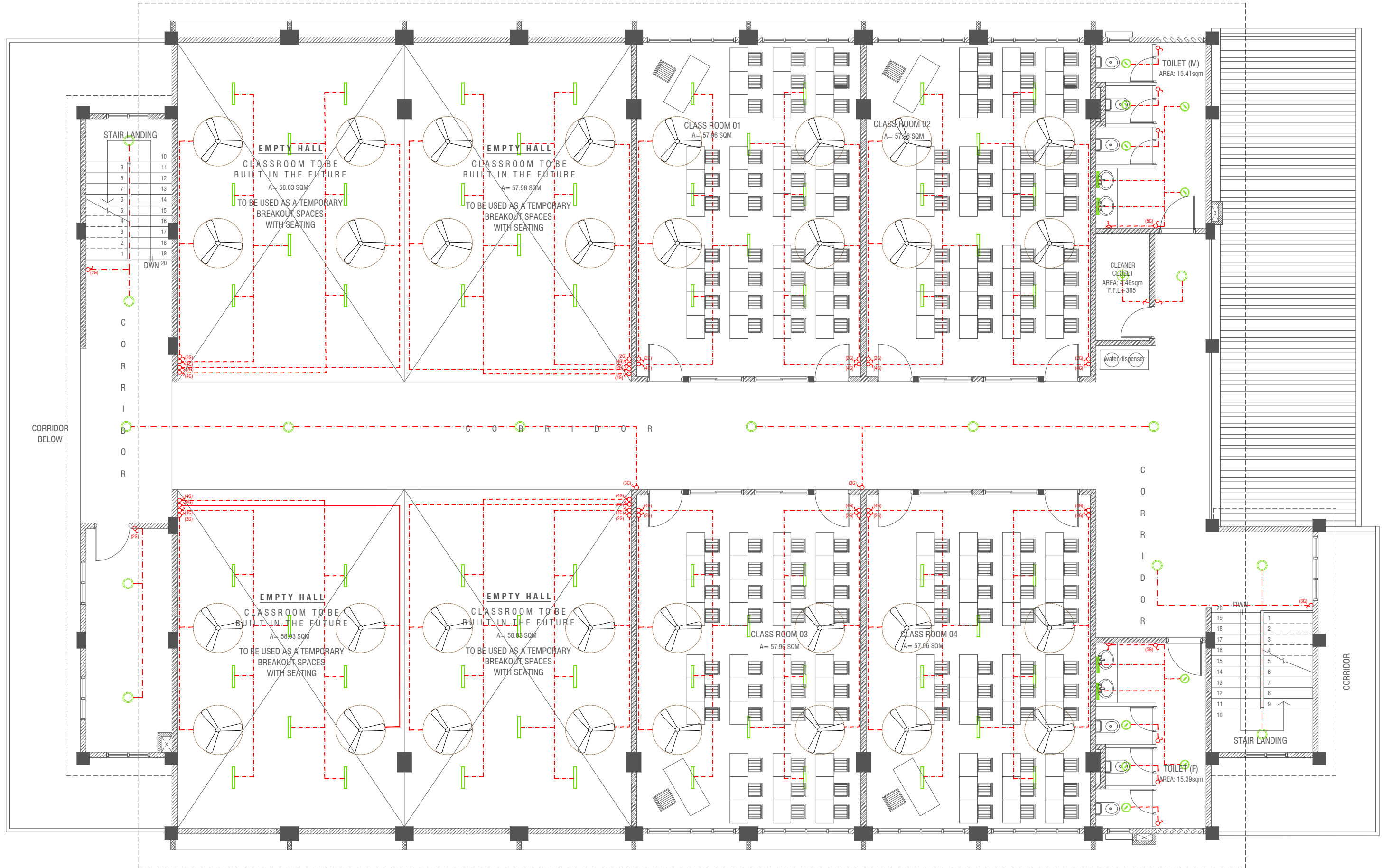
- ALL WIRING TO BE OF STELCO APPROVED STANDARDS  
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL  
-ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB  
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS

AA.Maalhos School Multipurpose Hall & 4 Classroom  
Client: Ministry of Education

Project Number: B/2020/006  
Date: March 2021  
Architect: Fatimah Leena Jaleel  
Engineer: Mohamed Muthaib Waleed  
Services: Ashraf Ahmed  
Interior: -

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t: +963 25049 f: +963 250776  
e: info@ryan.com.jo  
www.ryan.com.jo  
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Title: 1st Floor  
Lighting Layout  
Page: EL - 02/03



## SECOND 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

AA Maalhos School Multipurpose Hall & 4 Classroom  
Client: Ministry of Education

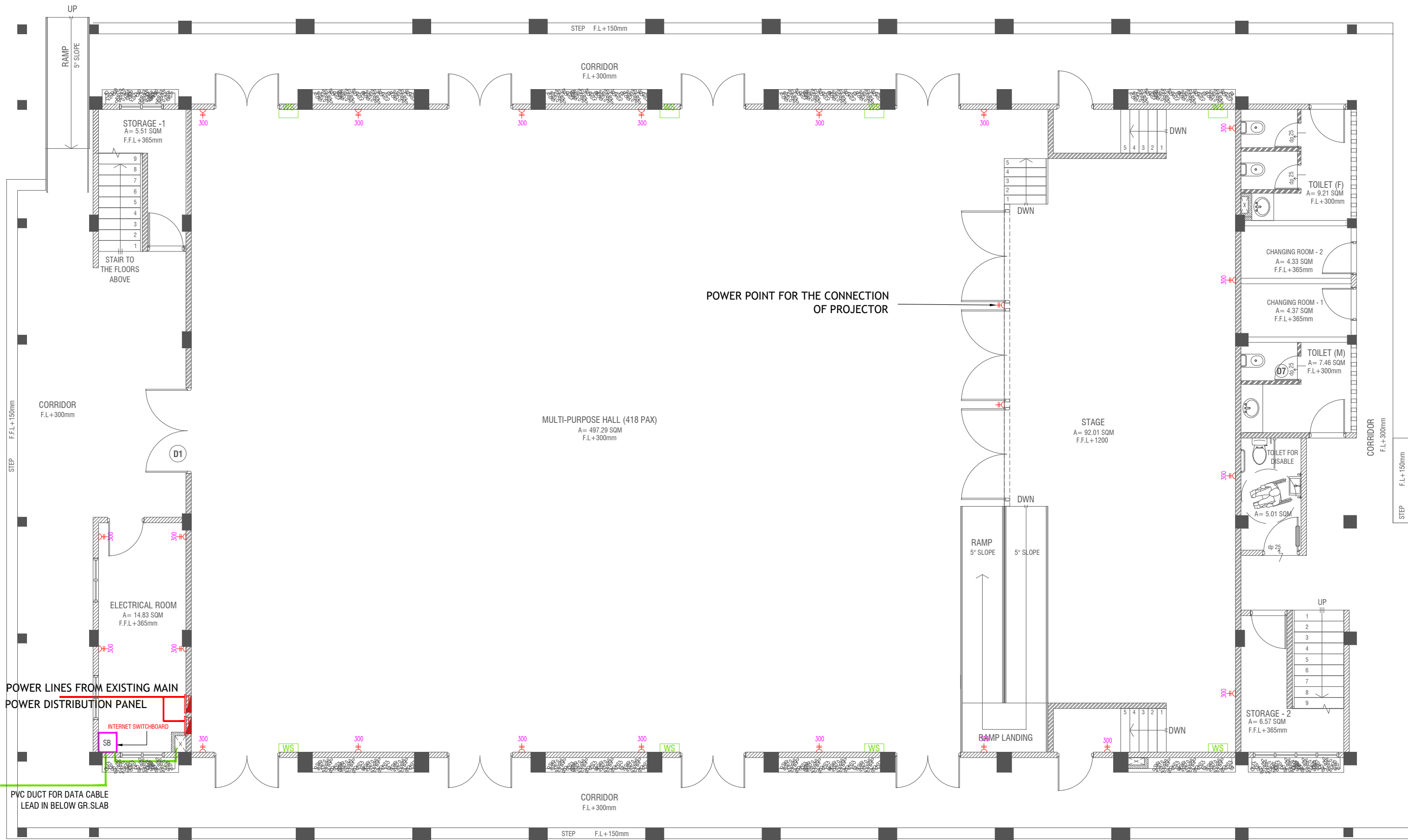
Project Number: B/2020/006  
Date: March 2021  
Architect: Fatimah Leena Jaleel  
Engineer: Mohamed Muthaib Waleed  
Services: A/Abdullah Alsharif  
Interior: A/Abdullah Alsharif



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t: +963 250491 f: +963 250776  
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Title: Second Floor Lighting Layout  
Page: EL - 03/03

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# GROUND FLOOR POWER LAYOUT

SCALE 1:100

- PHONE EXTENSION
- COMPUTER NETWORK OUTLET (RJ 45 CONNECTORS)
- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER POINT
- 13A TWIN SOCKET OUTLET
- 15A.SWITCHED/ SPUR UNIT @ H.L.
- DISTRIBUTION BOX
- WALL SPEAKERS AT CEILING LEVEL

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

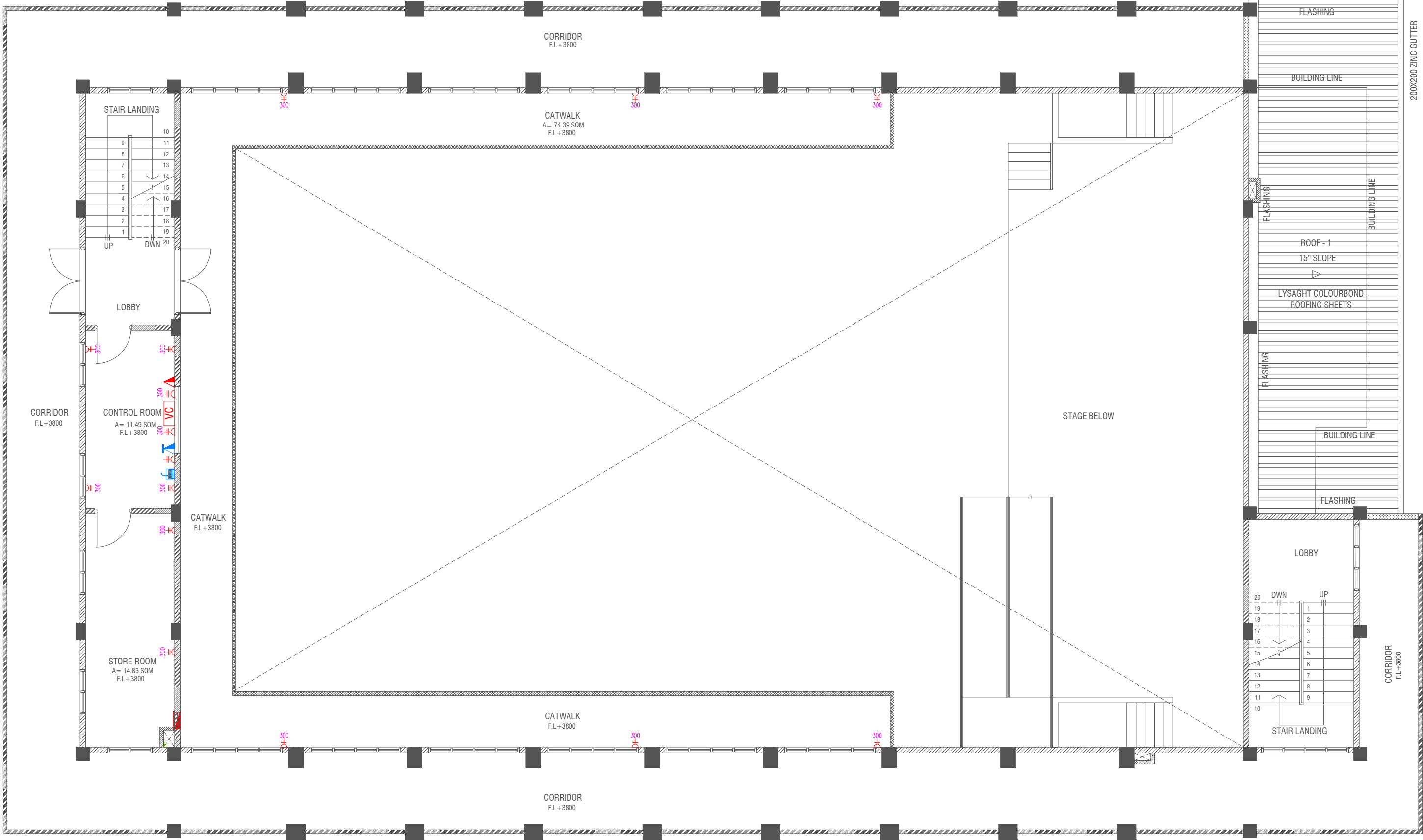
ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

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

AA Maalhos School Multipurpose Hall & 4 Classroom  
Client: Ministry of Education

Rev no	Date
1	2021/05/01
2	2021/05/01
3	2021/05/01
4	2021/05/01
5	2021/05/01
6	2021/05/01
7	2021/05/01
8	2021/05/01
9	2021/05/01





FIRST FLOOR POWER LAYOUT



- PUBLIC ADDRESS SYSTEM
- PHONE EXTENSION
- COMPUTER NETWORK OUTLET (RJ 45 CONNECTORS)
- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER POINT
- 13A TWIN SOCKET OUTLET
- 15A.SWITCHED/ SPUR UNIT @ H.L.
- DISTRIBUTION BOX
- WALL SPEAKERS AT CEILING LEVEL
- VOLUME CONTROLLER

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

ALL ELECTRICAL COMPONENT TO BE CONNECTED TO THEIR RESPECTIVE DB

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

AA.Maalhoh School Multipurpose Hall & 4 Classroom  
Client: Ministry of Education

Rev no	Date
01	2023/03/06
02	2023/03/06
03	2023/03/06
04	2023/03/06
05	2023/03/06
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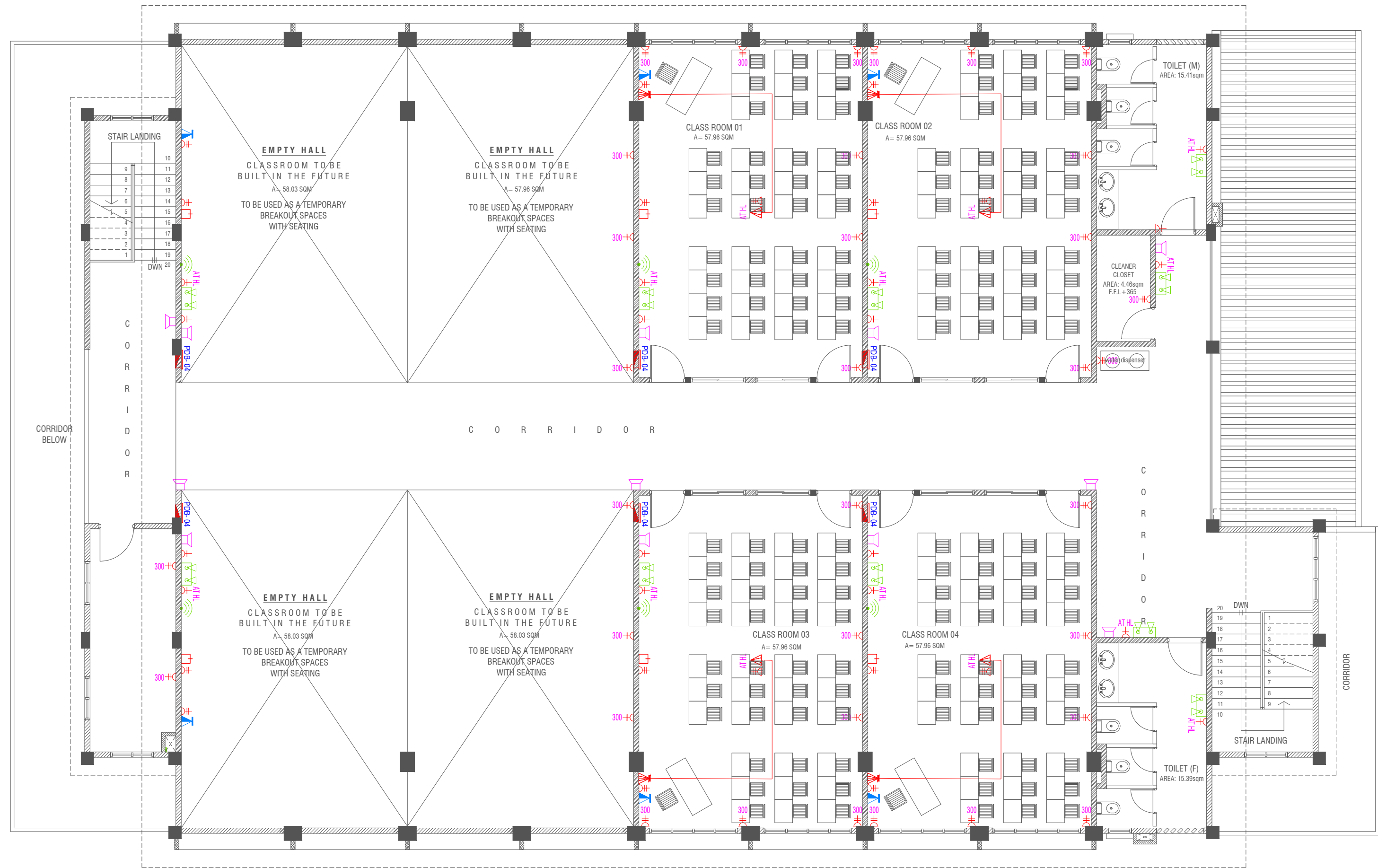
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e: info@riyan.com.sa  
www.riyan.com.sa  
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Title: 1st Floor Power Layout  
Page: EP - 02/03

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SECOND FLOOR POWER LAYOUT

SCALE 1:100



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
- TWO GANG / TV SOCKET OUTLET

- 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

NOTE:

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

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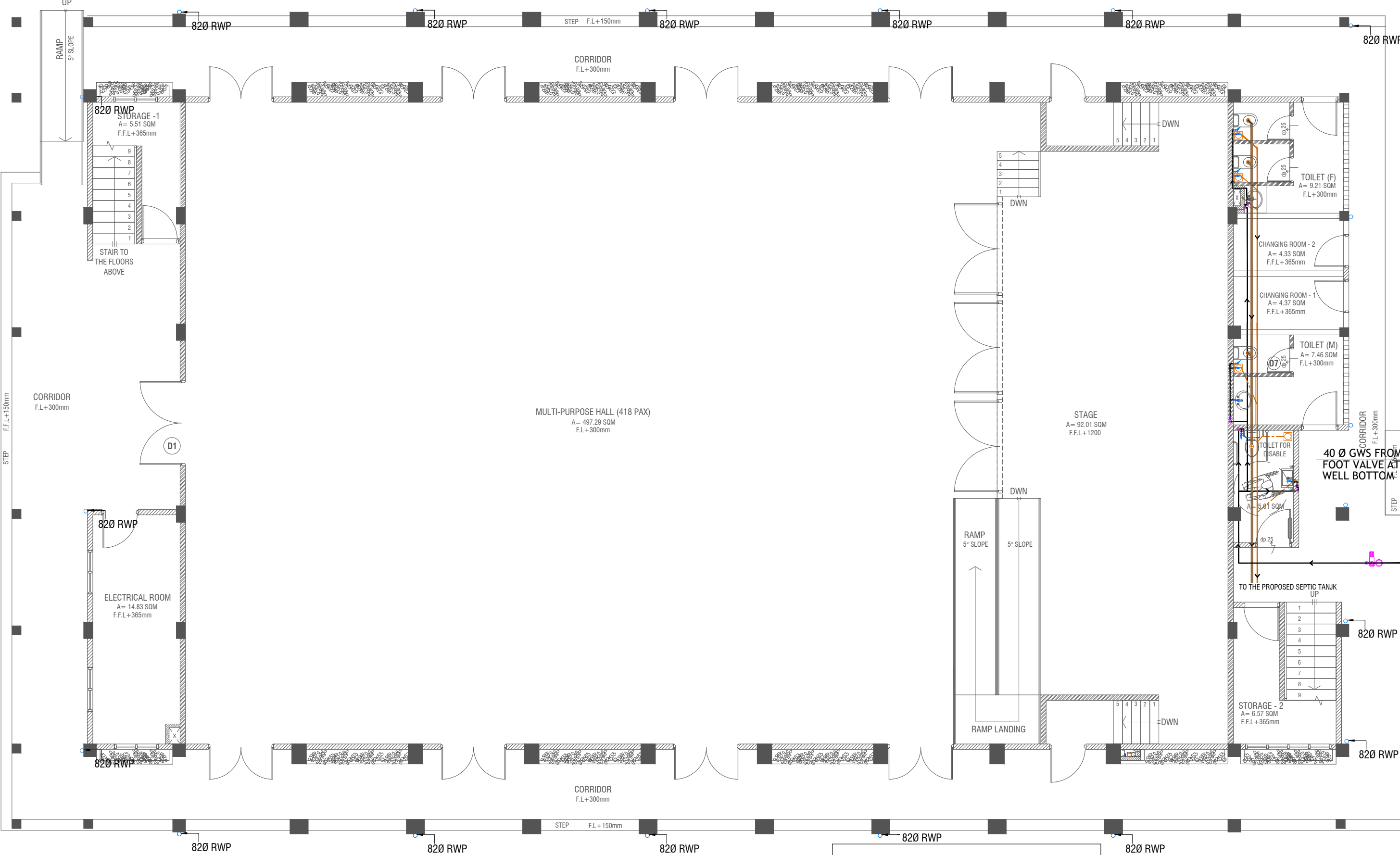
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20	2023/03/03

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t: +9632550491 f: +9632550776  
e: info@riyan.com.om  
www.riyan.com.om  
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Title: 2nd Floor Power Layout  
Page: EP - 03/03

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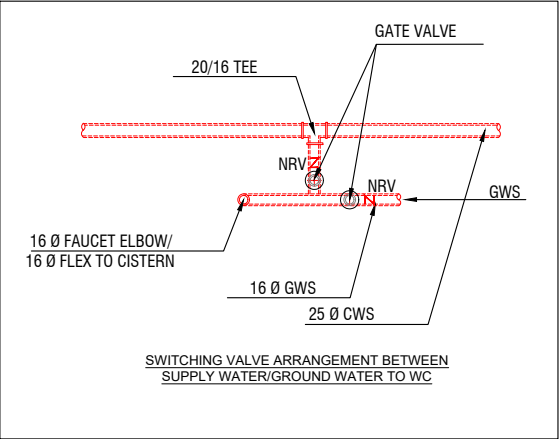


GROUND FLOOR PLUMBING & DRAINAGE LAYOUT

SCALE 1:100

LEGEND

- FC 160 COLD WATER SUPPLY FAUCET / WALL TAP/SINK
- GV 160 COLD WATER SUPPLY TO CISTERN
- GV GATE VALVE
- RISE IN WALL
- DROP IN WALL
- 320 COLD WATER SUPPLY PIPES RUNNING UNDERGROUND
- 250 COLD WATER SUPPLY PIPES RUNNING IN WALLS
- 250 COLD WATER SUPPLY PIPES RUNNING UNDERGROUND
- 250 COLD WATER SUPPLY PIPES RUNNING ABOVE FALSE CEILING
- FLOOR DRAIN
- FLOOR GULLY
- 1100 SOIL PIPE (CPVC PIPE)
- 820 WASTE PIPE (CPVC PIPE)
- 400 WASTE PIPE (CPVC PIPE)
- 500 WASTE PIPE (CPVC PIPE)
- 820 MANHOLE VENT PIPE (CPVC PIPE)
- BOTTLE TRAP
- GROUND WATER SUPPLY



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.  
- ALL COLD WATER PIPES SHOULD BE CPVC

NOTE:  
- THE WELL SHALL BE RELOCATED ACCORDING TO THE SALINITY OF THE GROUND WATER.  
- BASED ON WELL LOCATION PUMP CAPACITY AND LOACTION TO BE DECIDED

AA.Maalhosh School Multipurpose Hall & 4 Classroom

Client: Ministry of Education

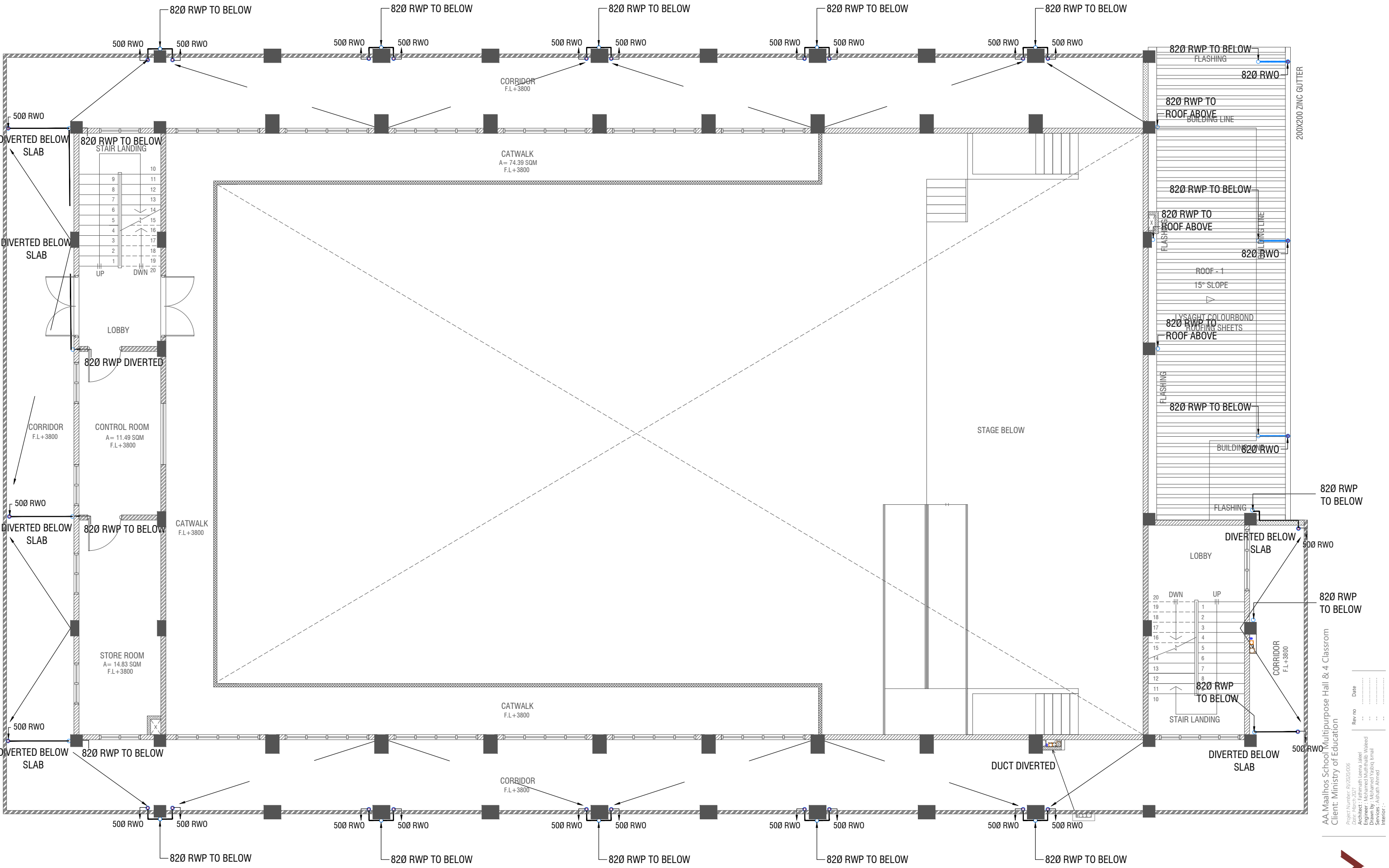
Project Number: B/2020/006  
Date: March 2021  
Architect: Fatimah Leena Jaleel  
Engineer: Mohamed Muthalib Valsad  
Services: Architectural, Structural, MEP, Electrical, Plumbing, Sanitary, Fire, Security, IT, etc.  
Interior: -



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t: +960325049 f: +9603303776  
e: info@riyan.com.mv  
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3rd floor, H. Azam, Arvenemogga, Malé

Title: Ground Floor Plumbing & Drainage Layout  
Page: DR - 01/05

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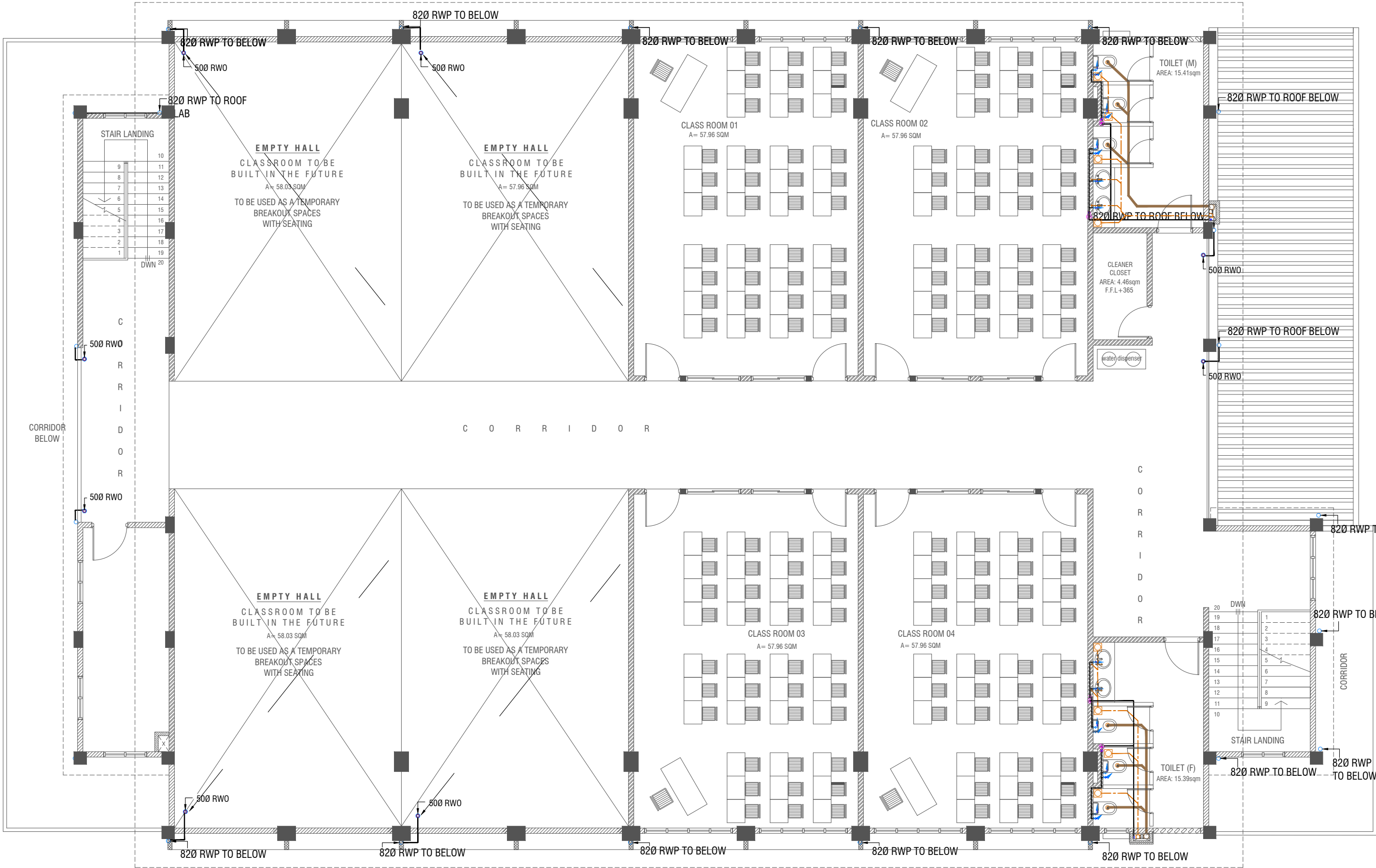


FIRST FLOOR DRAINAGE LAYOUT

SCALE 1:100

- 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



SECOND FLOOR DRAINAGE LAYOUT



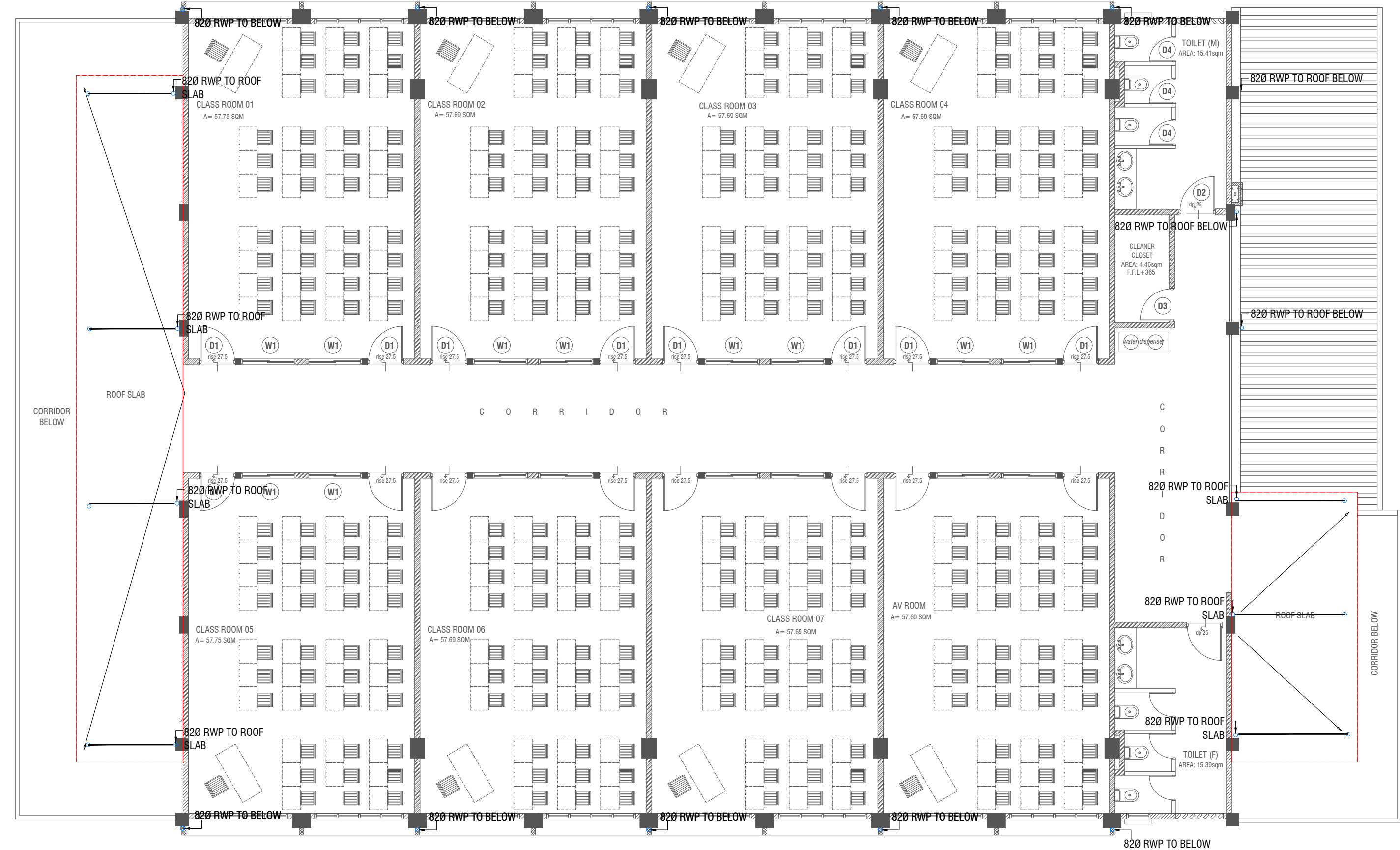
- RWP 82/50 Ø RAINWATER PIPE
- RWO 82/50 Ø DRAIN OUTLET
- CD 25 Ø DRAIN PIPE
- MHVP 50 Ø MANHOLE VENT PIPE

NOTE:  
- ALL RAINWATER PIPES TO BE AT GROUND LEVEL  
DISCHARGED THROUGH A PERFORATED COWL OR TO A SOAK PIT

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Client: Ministry of Education  
Project Number: B/2020/006  
Date: March 2021  
Architect: Fatimah Leena Jaleel  
Engineer: Mohamed Muthaib Waleed  
Services: Ashraf Ahmed  
Interior: -

RIYAN PRIVATE LIMITED  
t: +960325049 f: +9603303076  
e: info@riyan.com.mv  
www.riyan.com.mv  
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ROOF -1 DRAINAGE LAYOUT



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Client: Ministry of Education

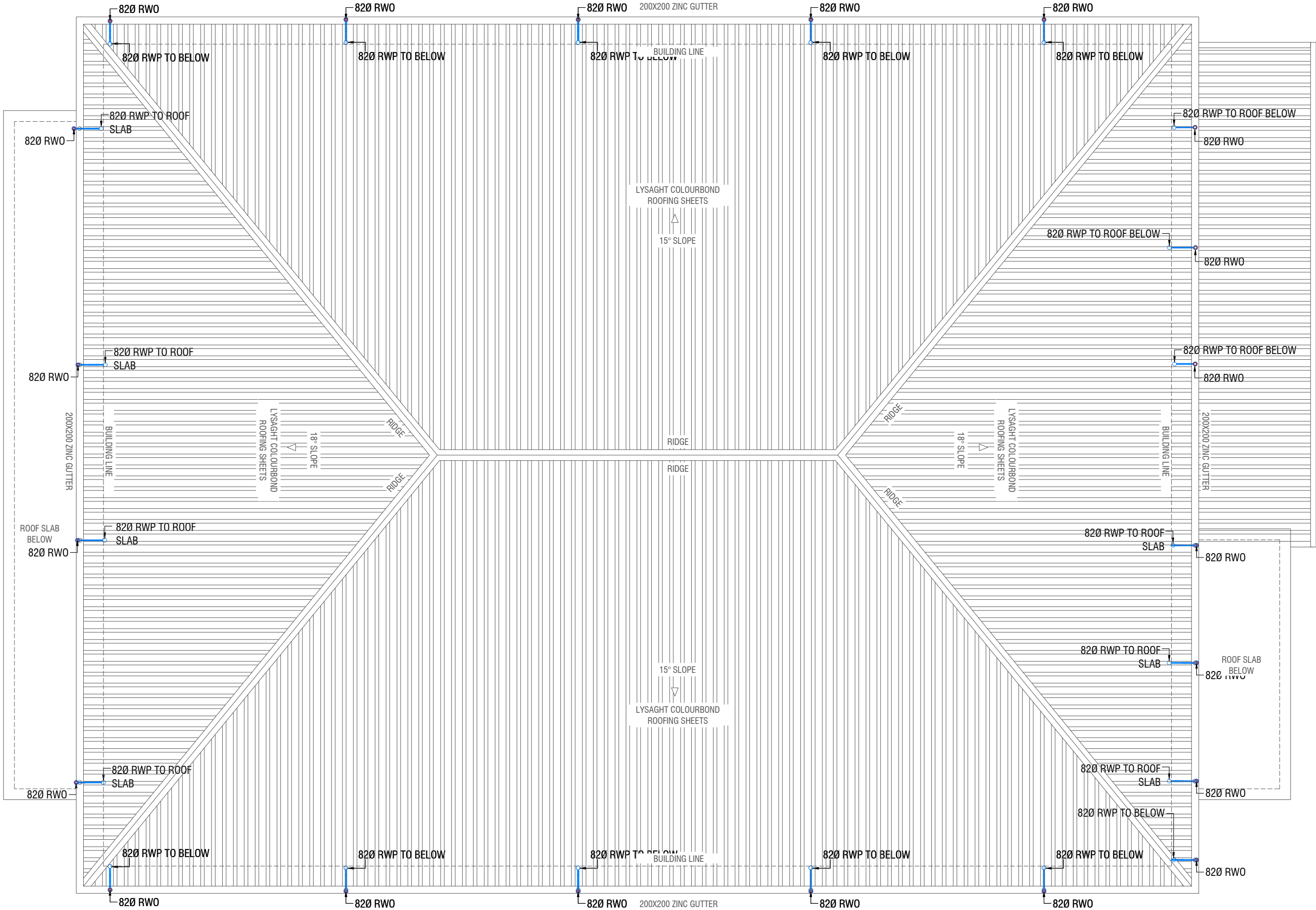
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## ROOF PLAN - 2 DRAINAGE LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

- 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

AA Maalhos School Multipurpose Hall & 4 Classroom  
Client: Ministry of Education

Rev no	Date
1	05/05/2021
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5	05/05/2021
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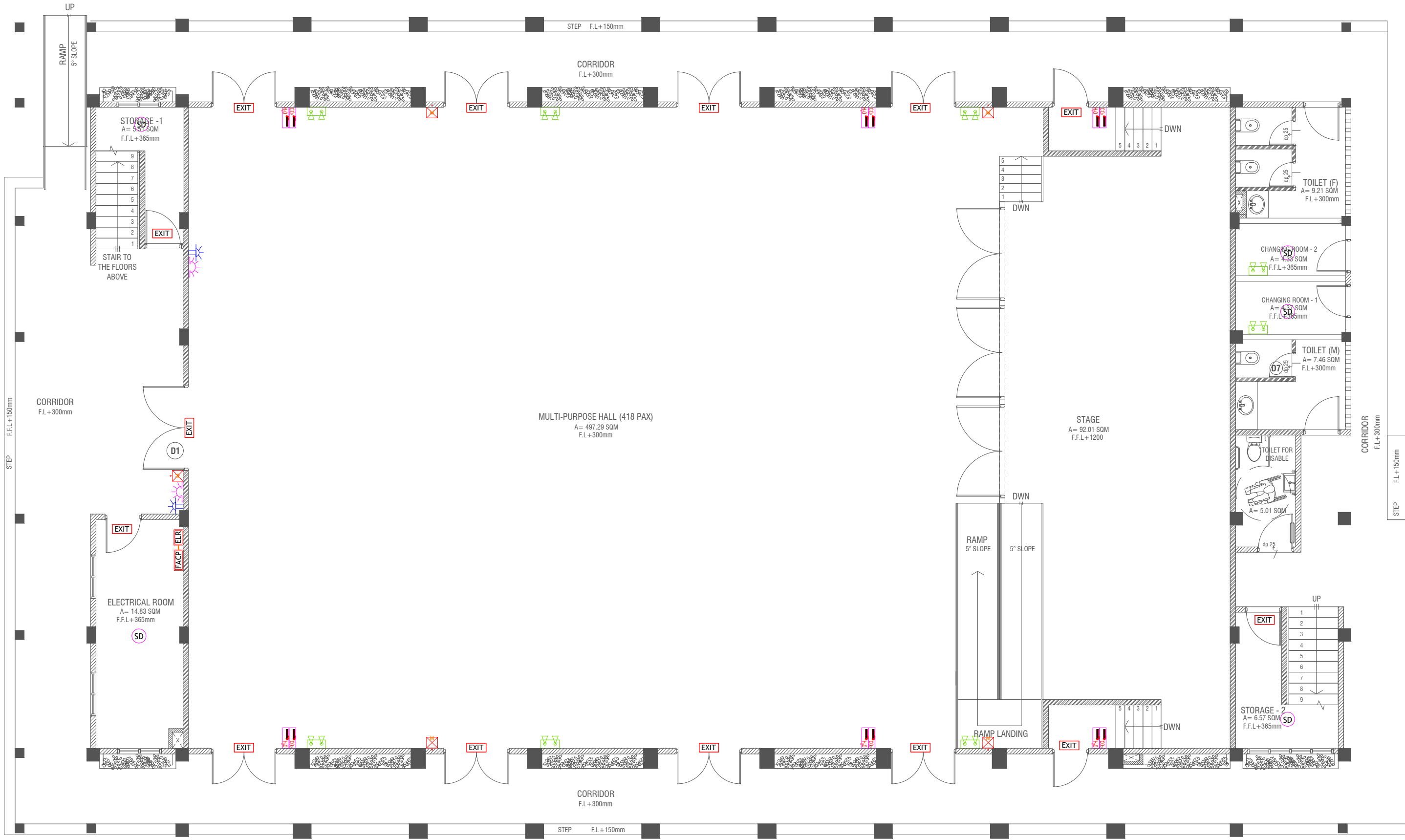


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Title: Roof Plan - 2  
Drainage Layout  
Page: DR - 05/05

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# GROUND FLOOR FDP LAYOUT

SCALE 1:100



- LEGEND
- SD SMOKE DETECTOR
  - HD HEAT DETECTOR
  - EXIT EXIT SIGN
  - EM EMERGENCY LIGHT

- CO<sub>2</sub> EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- WET CHEMICAL FIRE EXTINGUISHER (LOAD: 7.2KG)
- H<sub>2</sub>O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

- ELR END OF LINE RESISTANCE
- FACP FIRE ALARM CONTROL PANEL
- MANUAL CALL POINT (RESETTABLE)
- BEACON
- SOUNDER/BELL (85 DB)

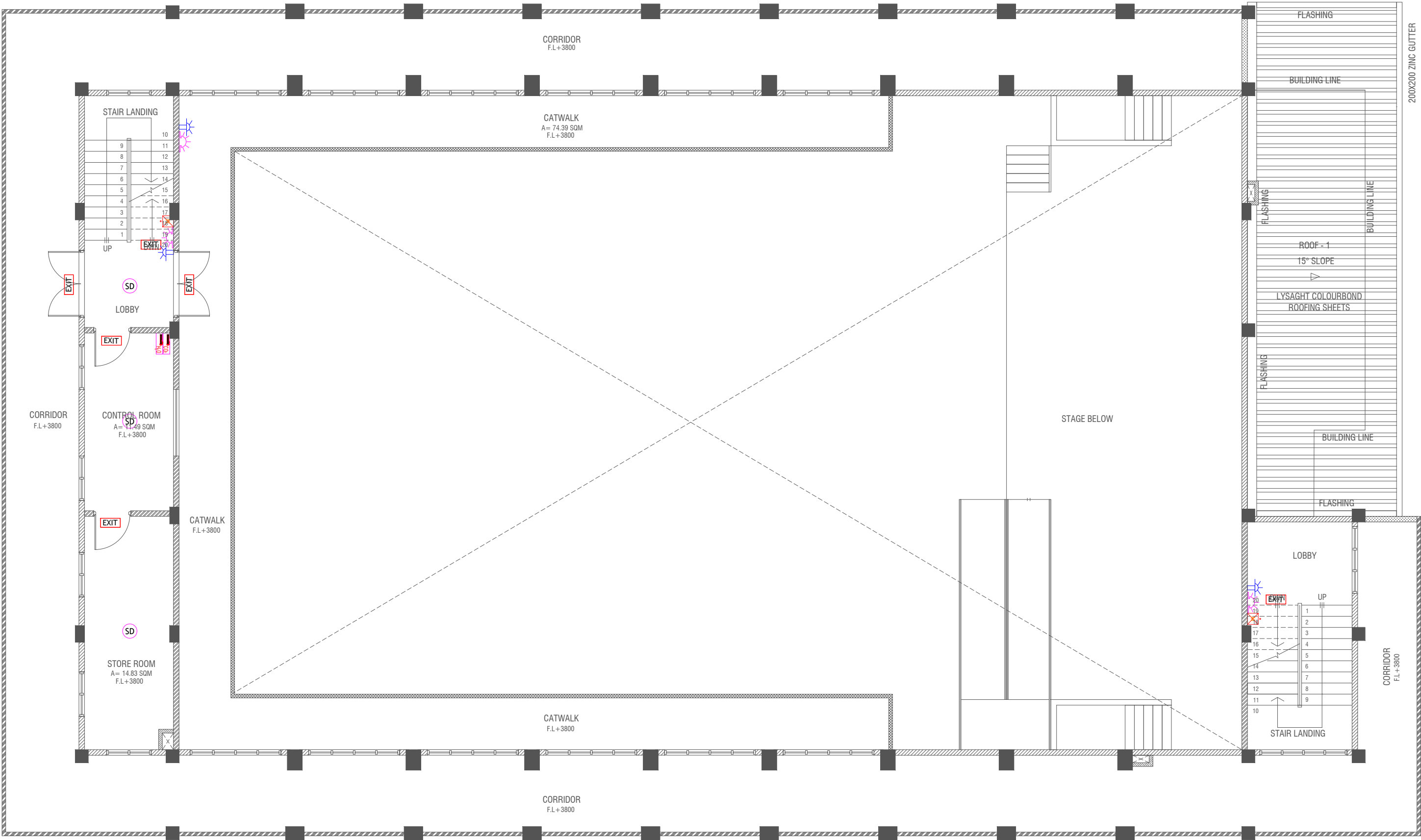
- ALL FIRE RATED DOOR SHOULD COME WITH PACKING/EXPANSION SEAL TRUMP
1. ALL PIPES SHOULD BE GALVANIZED SCHEDULE 40.  
2. ALL PIPES SHALL BE PAINTED IN RED AS PER REGULATION.  
3. ALL SUPPORT/BRAKETS SHALL BE HOT DIPPED GALVANIZED TO 100MM.  
4. ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

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Client: Ministry of Education

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# FIRST FLOOR FDP LAYOUT

SCALE 1:100



## LEGEND

- SMOKE DETECTOR
- HEAT DETECTOR
- EXIT SIGN
- EMERGENCY LIGHT

- CO<sub>2</sub> EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- WET CHEMICAL FIRE EXTINGUISHER (LOAD: 7.2KG)
- H<sub>2</sub>O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

- END OF LINE RESISTANCE
- FIRE ALARM CONTROL PANEL
- MANUAL CALL POINT (RESETTABLE)
- BEACON
- SOUNDER/BELL (85 DB)

- 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 100% OF
- 4. ALL FIRE EXTINGUISHER INSIDE CABINETS, (CABINET SHOULD BE PROVIDED)

AA.Maalhos School Multipurpose Hall & 4 Classroom  
Client: Ministry of Education

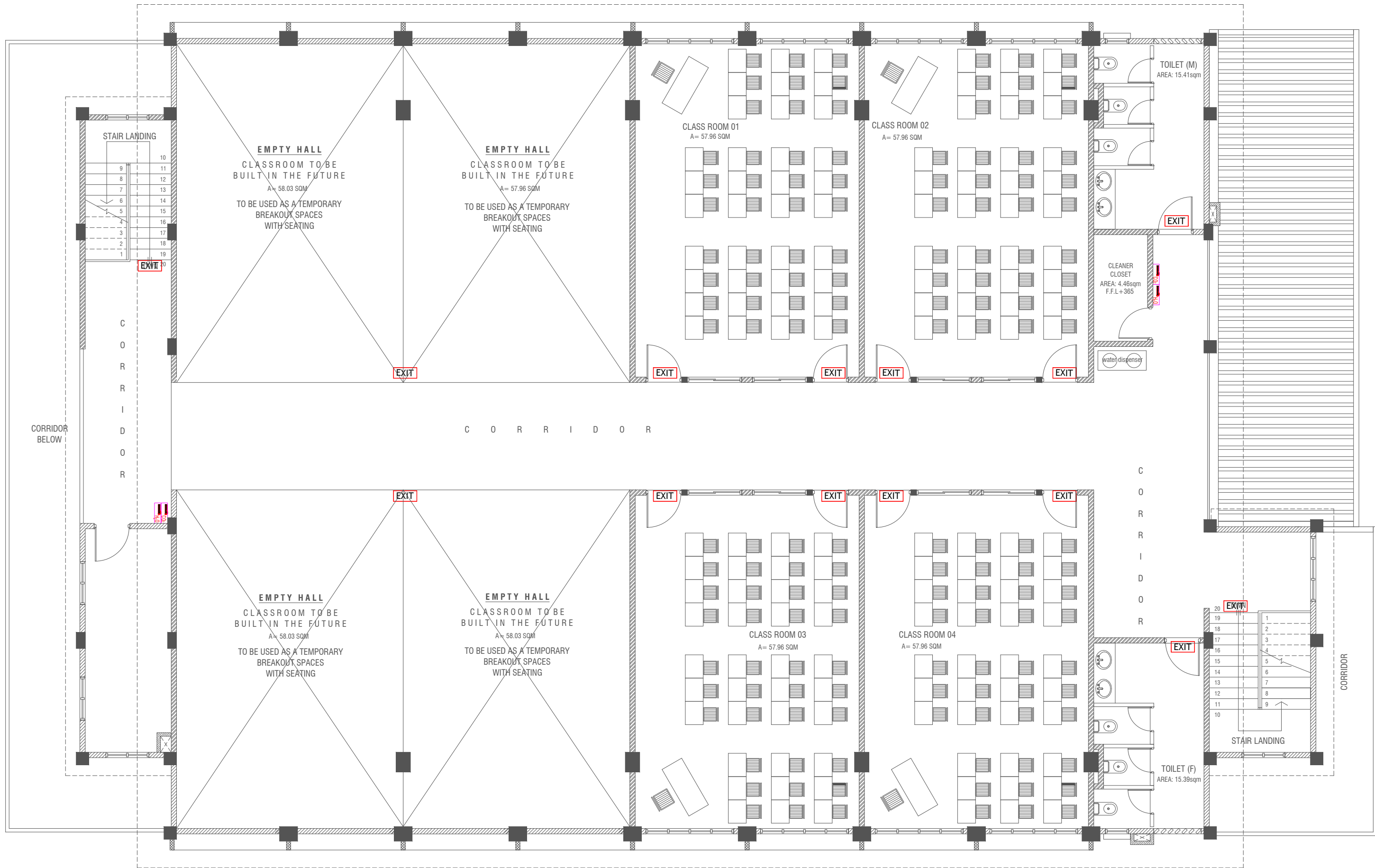
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2	2023/05/04
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5	2023/05/04
6	2023/05/04
7	2023/05/04
8	2023/05/04
9	2023/05/04
10	2023/05/04

Project Number: R/2023/005  
Date: May/2023  
Architect: Fatimah Leena Jaleel  
Engineer: Mohamed Muthaib Vaided  
Services: Aishah Ahmed  
Interior :-



RIYAN PRIVATE LIMITED

t: +963215049 f: +963210776  
e: info@riyan.com.mv  
www.riyan.com.mv  
3rd floor, H. Azam, Ammanmogu, Malé



SECOND 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

AA.Maailhos School Multipurpose Hall & 4 Classroom  
Client: Ministry of Education

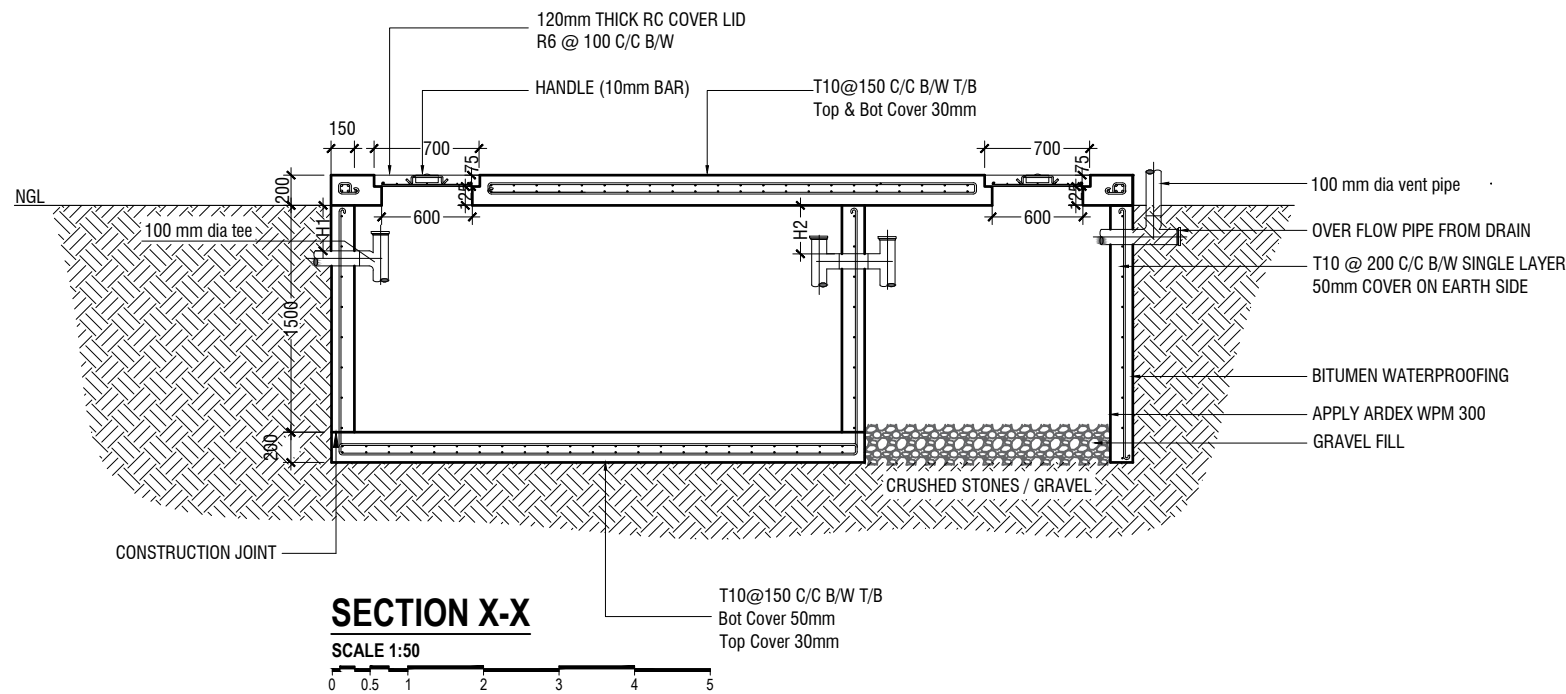
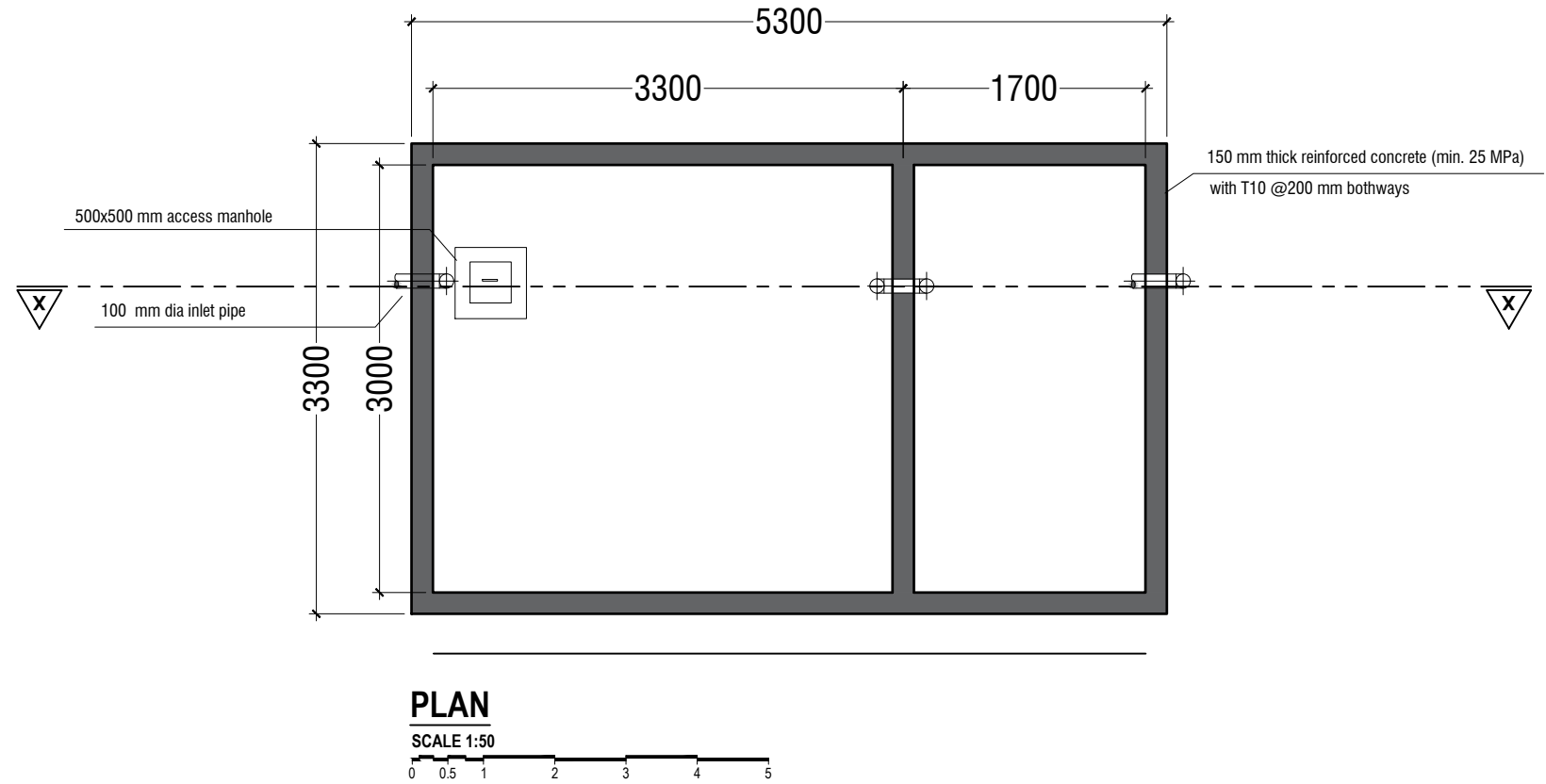
Project Number: B/2020/006  
Date: March 2021  
Architect: Fatimah Leena Jaleel  
Engineer: Mohamed Muthaib Valsad  
Services: Aishah Ahmed  
Interior :-



RIYAN PRIVATE LIMITED  
t: +9603250491 f: +9603303076  
e: info@riyan.com.mv  
www.riyan.com.mv  
3rd floor, H. Azam, Ammanmogu, Malé

Title: 2nd Floor FDP Layout  
Page: FDP - 03/03

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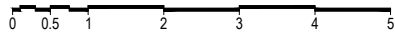
**NOTE:**

H1 < H2

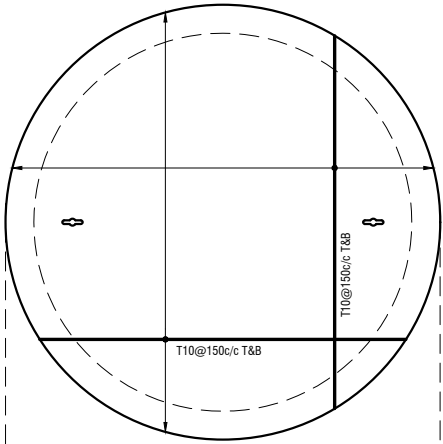
- TOP AND BOTTOM OF SEPTIC TANK SHOULD BE OF 200mm THICK
- BITUMINOUS WATERPROOFING TO BE APPLIED BELOW GROUND SURFACE
- REINFORCEMENT TO HAVE A COVER OF 50mm FROM EARTH

**SEPTIC TANK DETAIL**

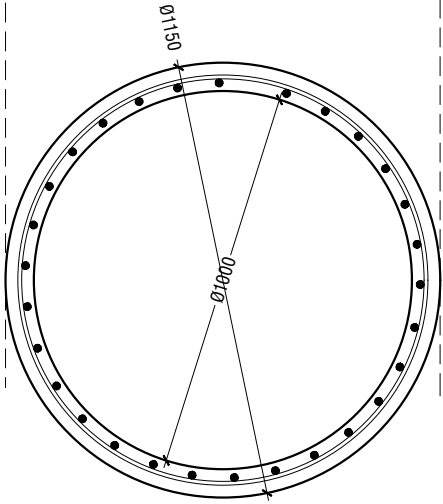
SCALE 1:50



WATER TANK WALL TOP & BOTTOM SLAB



WATER TANK WALL REINF.

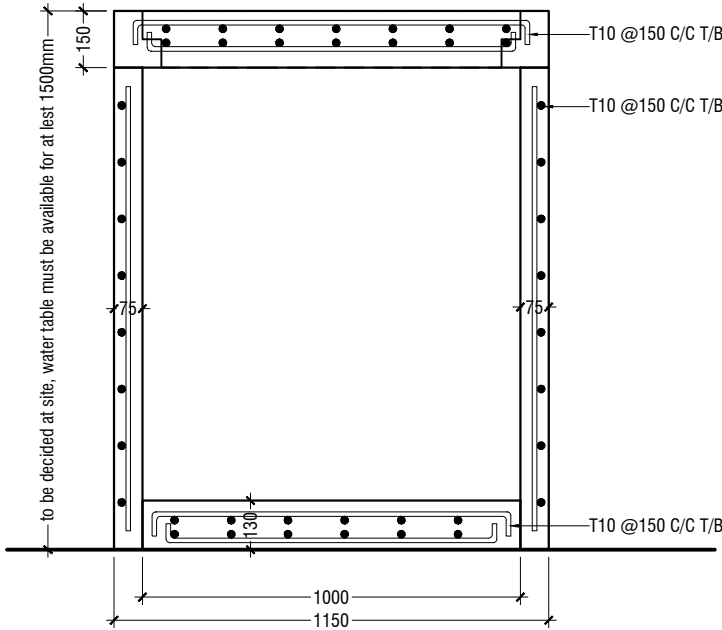


## WATER TANK DETAILS

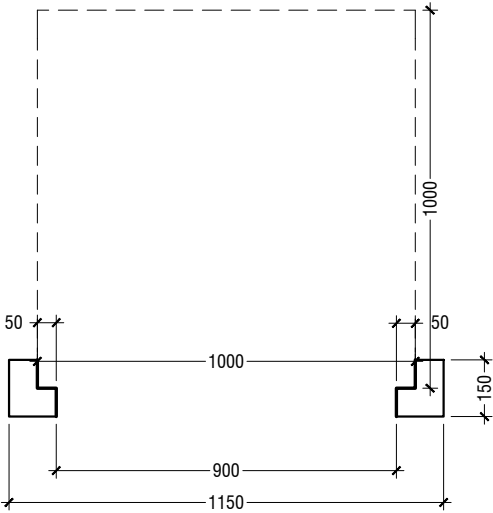
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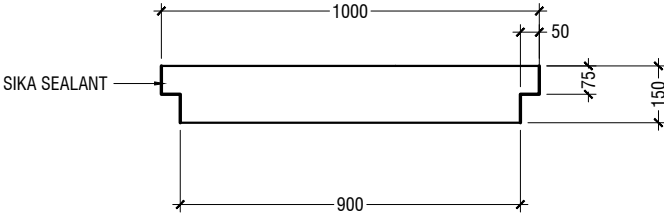
WATER TANK SECTION



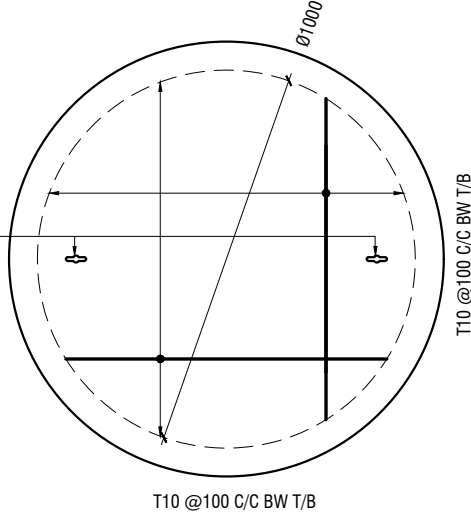
ELEVATION



SECTION



PLAN



### NOTE:

- 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

## WATER TANK LID DETAILS

SCALE 1:20

