

# Proposed Multipurpose Hall Building at Th.Omadhoo School

*SERVICES DRAWINGS*

Client: Ministry of Education



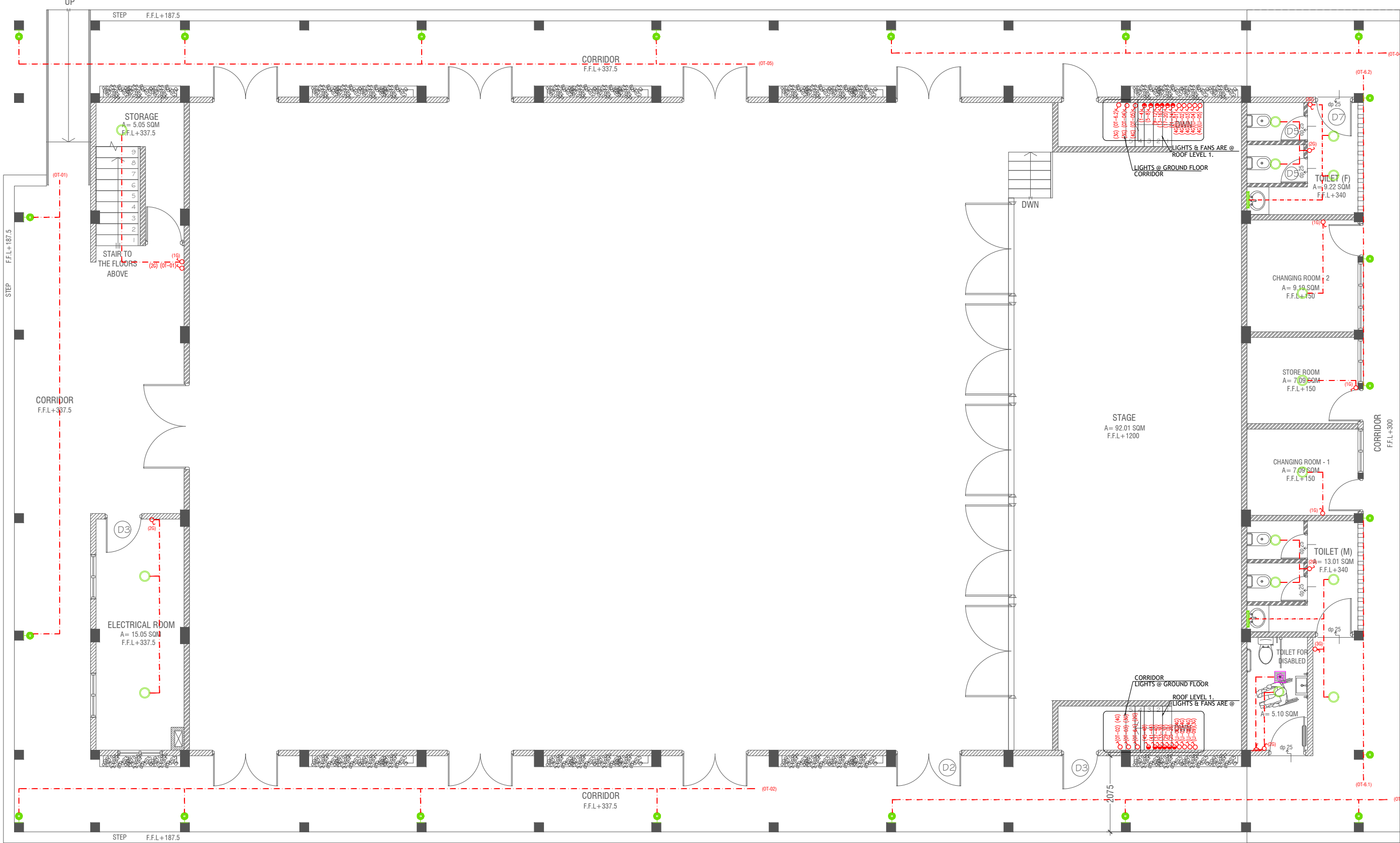
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3rd floor, H. Azum, Ameenemaguu, Male'

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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)

- EXHAUST ( CEILING MOUNTED )
- FLEX OUTLET FOR EXHAUST
- 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"

Th.Omadhoo School Hall  
Client: Ministry of Education

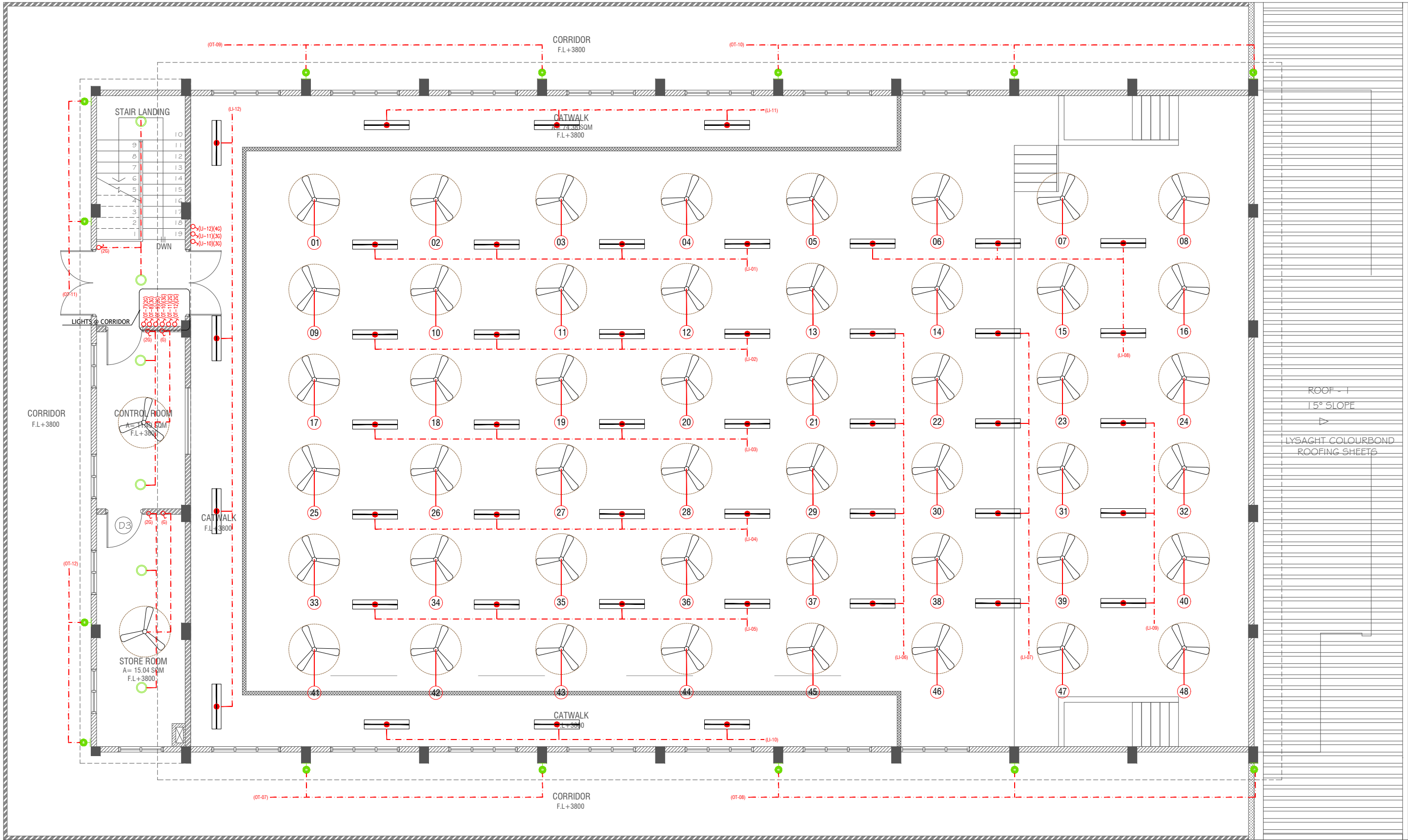
Project Number: B/2020/006  
Date: March 2021  
Architect: Mariyam Iqbal Shareef  
Engineer: Mohamed Muthalib Waleed  
Services: Aqash Ahmed  
Interior: -



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Title: Ground Floor Lighting Layout  
Page: EL - 01/02

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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)

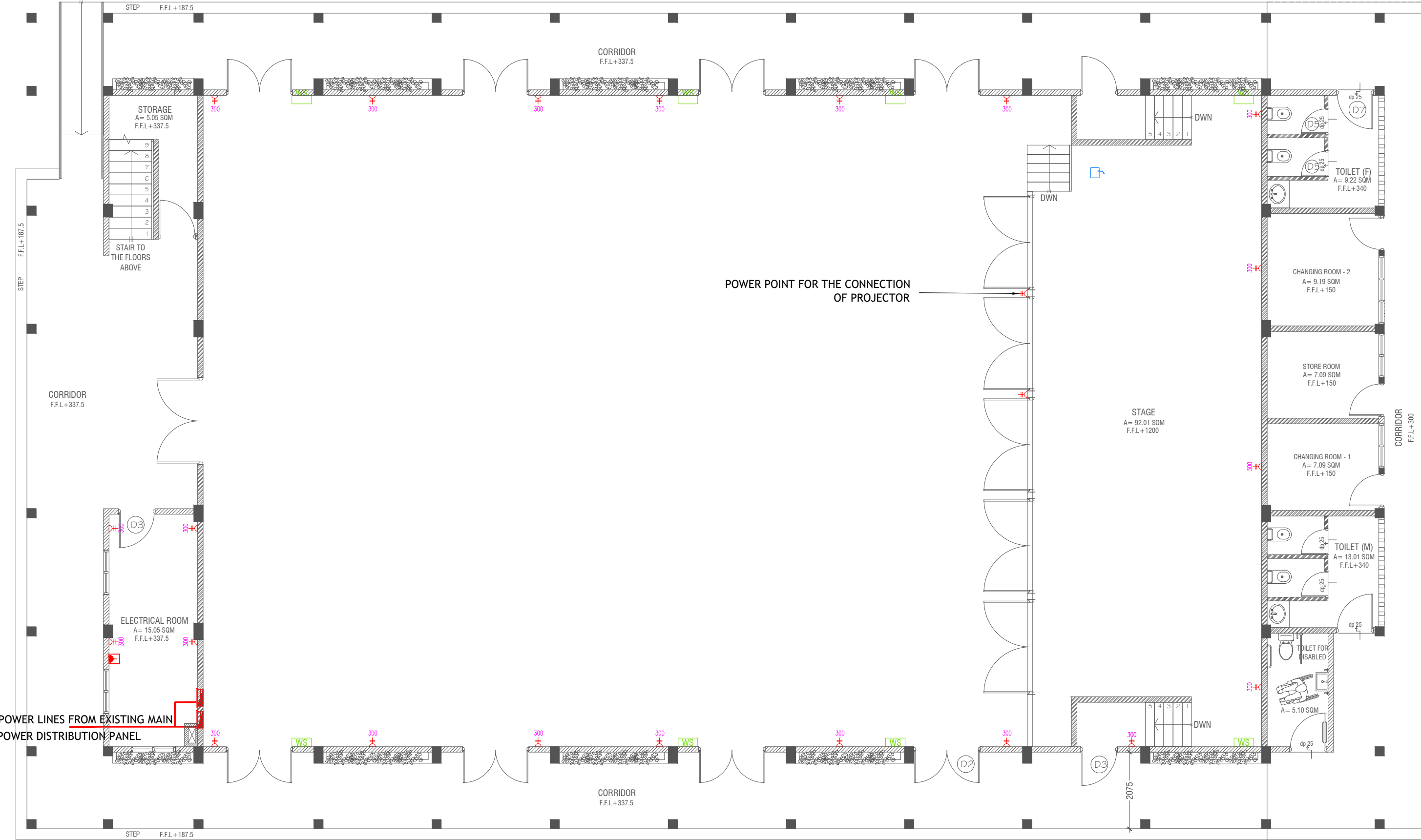
- LIGHT SWITCH
- CEILING FAN SWITCH (4G)
- CIRCUIT LINE
- SWITCHING LINE

**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"



POWER LINES FROM EXISTING MAIN  
POWER DISTRIBUTION PANEL

POWER POINT FOR THE CONNECTION  
OF PROJECTOR

STAGE  
A= 92.01 SQM  
F.F.L+1200

CHANGING ROOM - 2  
A= 9.19 SQM  
F.F.L+150

STORE ROOM  
A= 7.09 SQM  
F.F.L+150

CHANGING ROOM - 1  
A= 7.09 SQM  
F.F.L+150

TOILET (M)  
A= 13.01 SQM  
F.F.L+340

TOILET FOR  
DISABLED  
A= 5.10 SQM

CORRIDOR  
F.F.L+300

CORRIDOR  
F.F.L+337.5

CORRIDOR  
F.F.L+340

CORRIDOR  
F.F.L+340

CORRIDOR  
F.F.L+340

CORRIDOR  
F.F.L+340

CORRIDOR  
F.F.L+340

CORRIDOR  
F.F.L+340

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F.F.L+340

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F.F.L+340

CORRIDOR  
F.F.L+340

CORRIDOR  
F.F.L+340

CORRIDOR  
F.F.L+340

**GROUND FLOOR POWER LAYOUT**  
SCALE 1:100

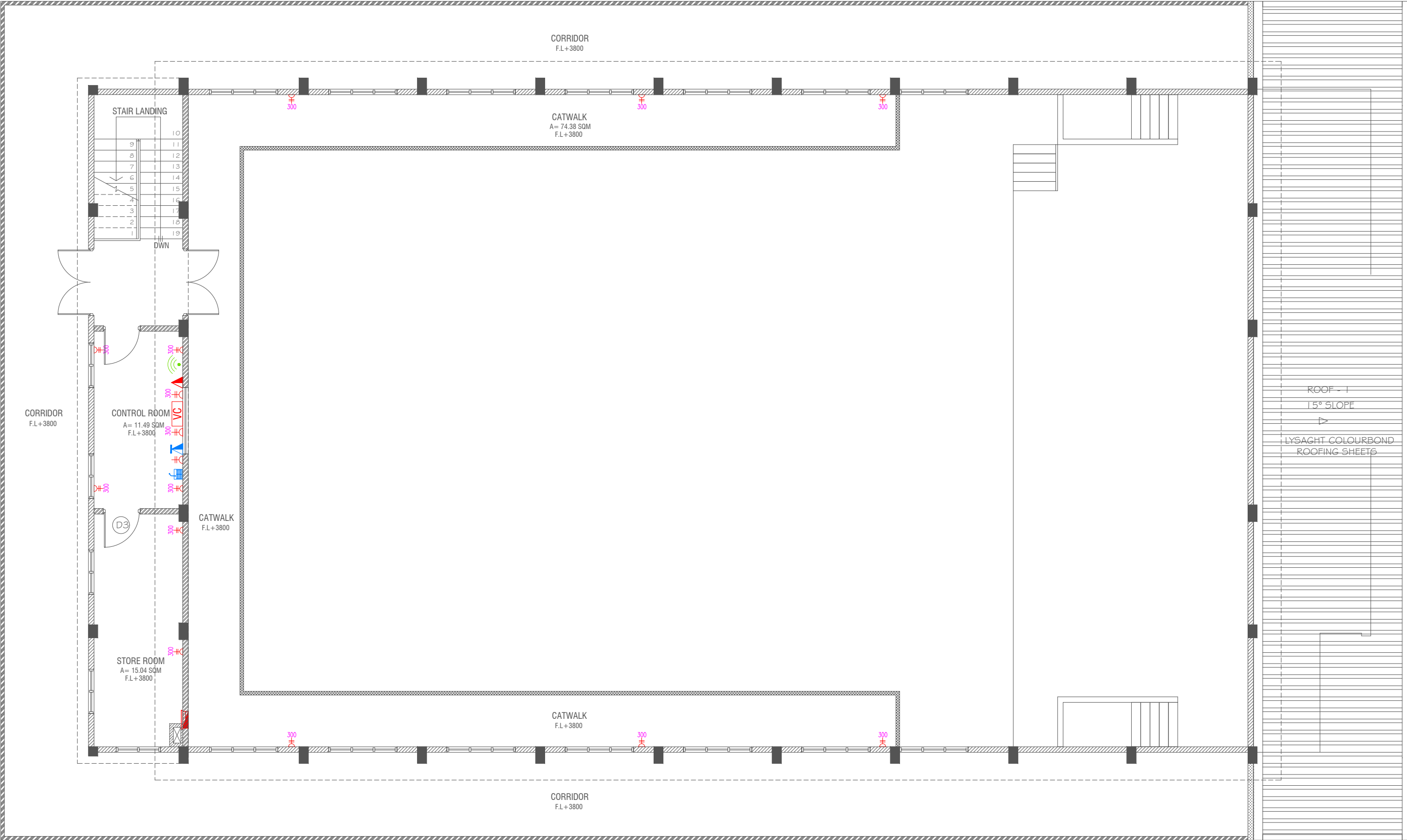
- PHONE EXTENSION
- COMPUTER NETWORK OUTLET (RJ 45 CONNECTORS)
- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER POINT
- 13A TWIN SOCKET OUTLET
- 15A.SWITCHED/ SPUR UNIT @ H.L.
- DISTRIBUTION BOX
- WALL SPEAKERS AT CEILING LEVEL
- WIRED MIC CONTROLLED FROM THE CONTROL ROOM

- 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

TO SUPPLY AND INSTALL PANEL BOARD WITH KWH  
METER. WIRING AND CONNECTION TO MAIN PANEL  
BOARD FROM MAIN ELECTRICAL NETWORK  
TO BE DECIDED ON SITE (PANEL BOARD SHALL BE  
LOCATED AT ELECTRICAL ROOM)



# FIRST FLOOR POWER LAYOUT

SCALE 1:100

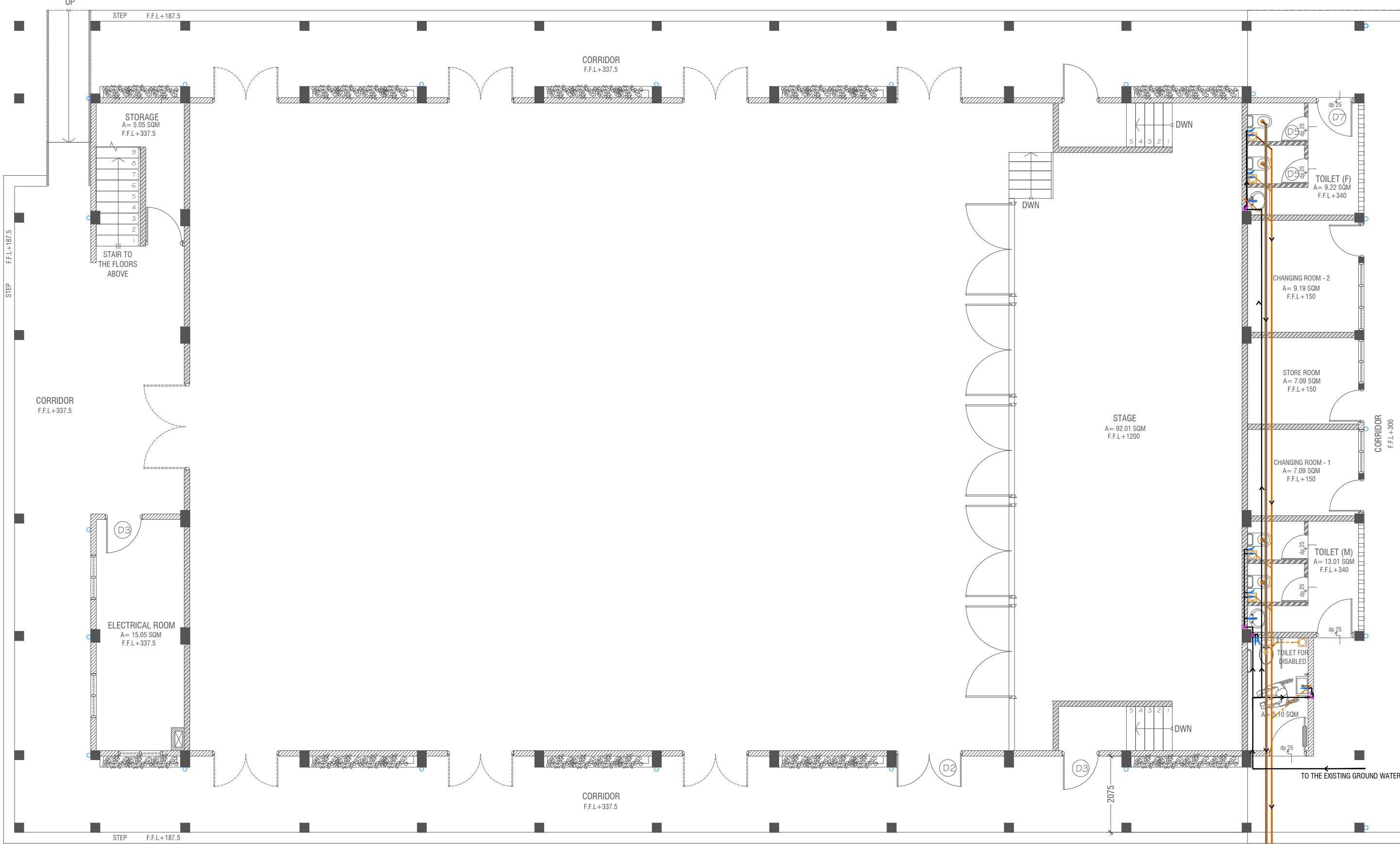


- DATA POINT
- PUBLIC ADDRESS SYSTEM
- PHONE EXTENSION
- COMPUTER NETWORK OUTLET (RJ 45 CONNECTORS)
- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER POINT
- 13A TWIN SOCKET OUTLET
- 15A.SWITCHED/ SPUR UNIT @ H.L.
- DISTRIBUTION BOX
- WALL SPEAKERS AT CEILING LEVEL
- VOLUME CONTROLLER

- 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

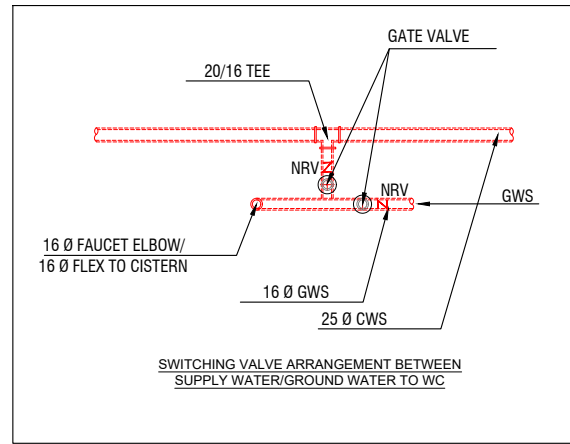


# GROUND FLOOR PLUMBING & DRAINAGE LAYOUT

SCALE 1:100

## LEGEND

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

Th.Omadhoo School Hall  
Client: Ministry of Education

Project Number: B/2020/006  
Date: March 2021  
Architect: Narayan Isha Shareef  
Engineer: Mohamed Muthalib Waleed  
Services: Aishah Ahmed  
Interior :-

Rev no  
Date

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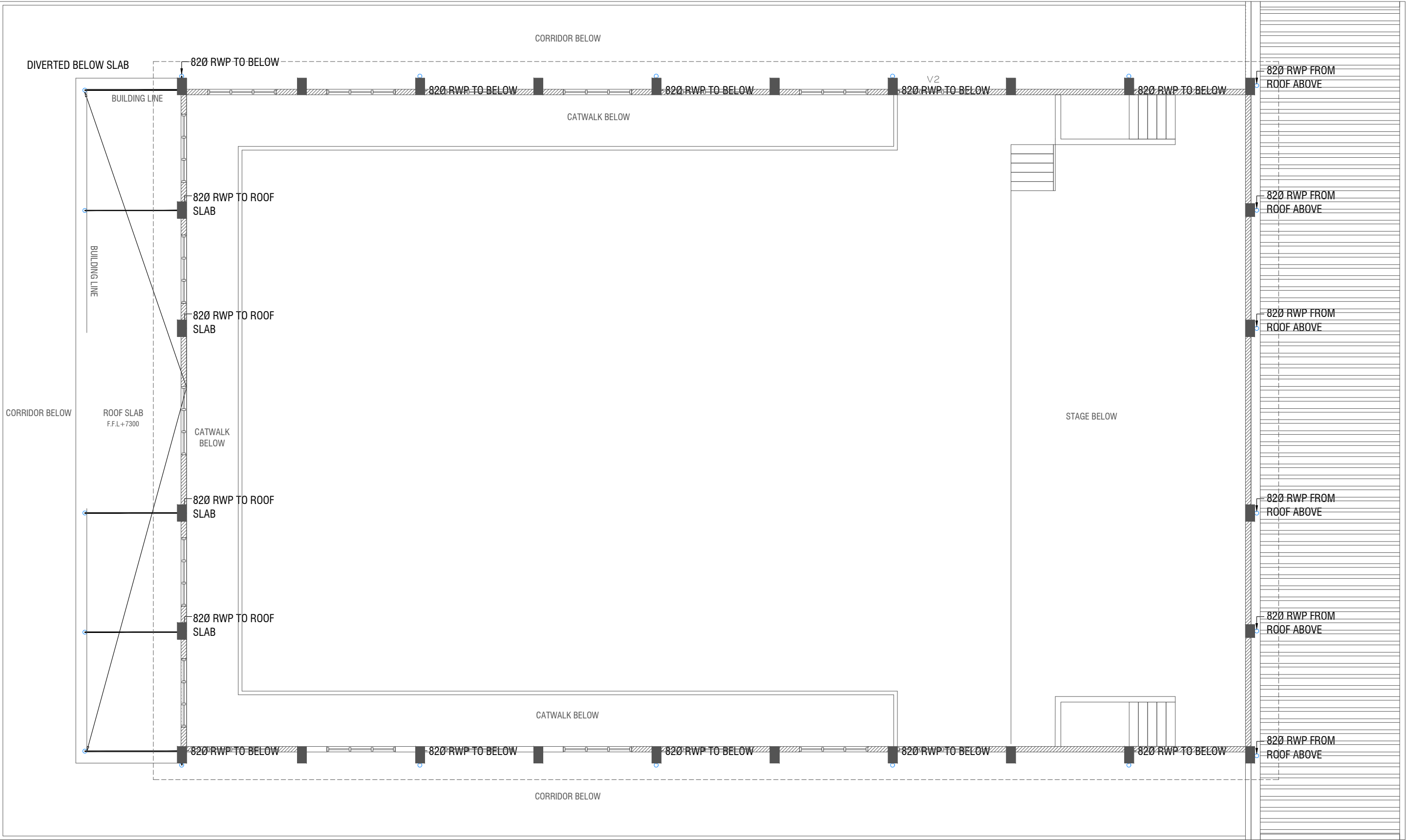
Title: Ground Floor Plumbing & Drainage Layout  
Page: DR - 01/04

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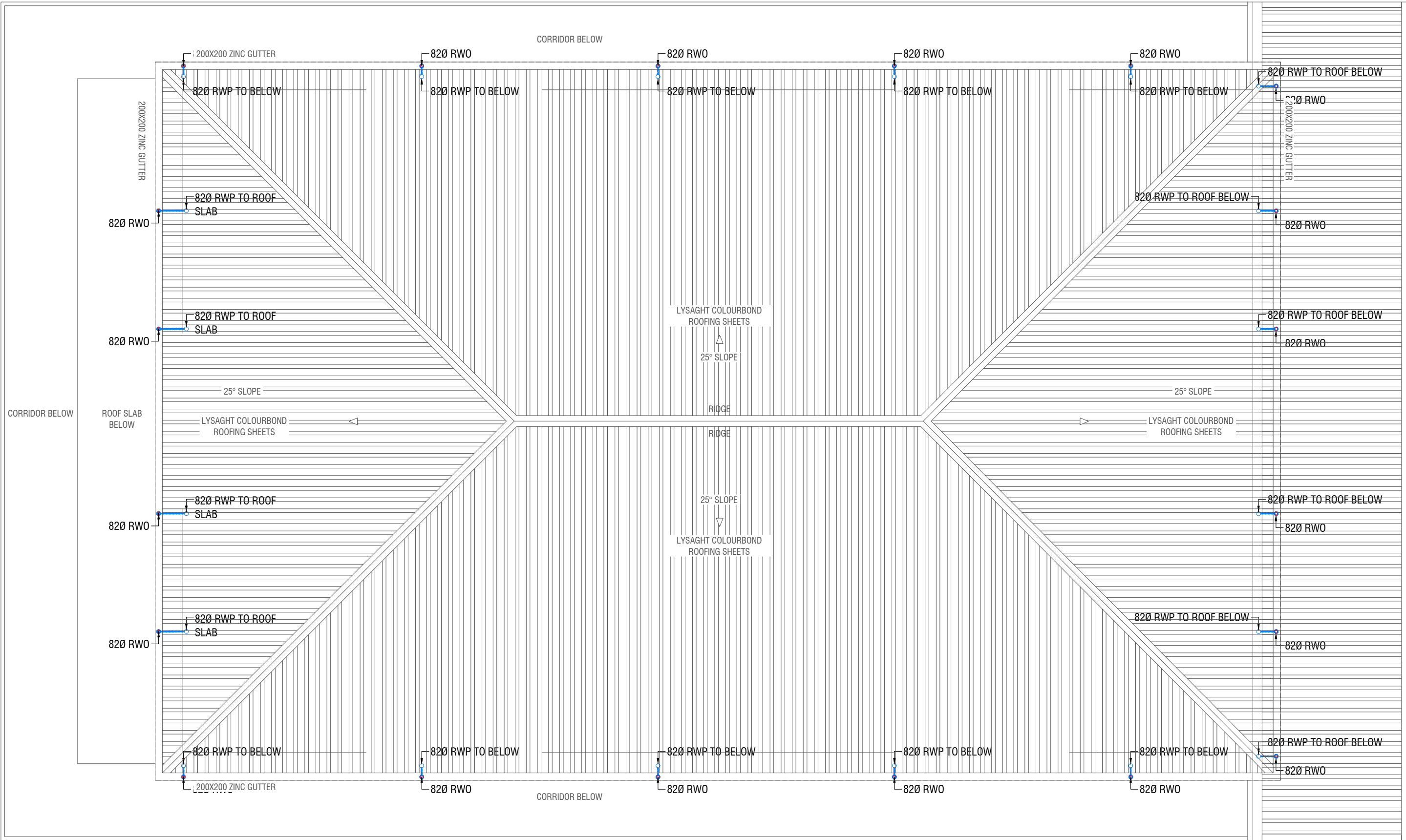


ROOF PLAN - 1 DRAINAGE LAYOUT



- 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



## ROOF PLAN - 2 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

Th.Omadhoo School Hall  
Client: Ministry of Education

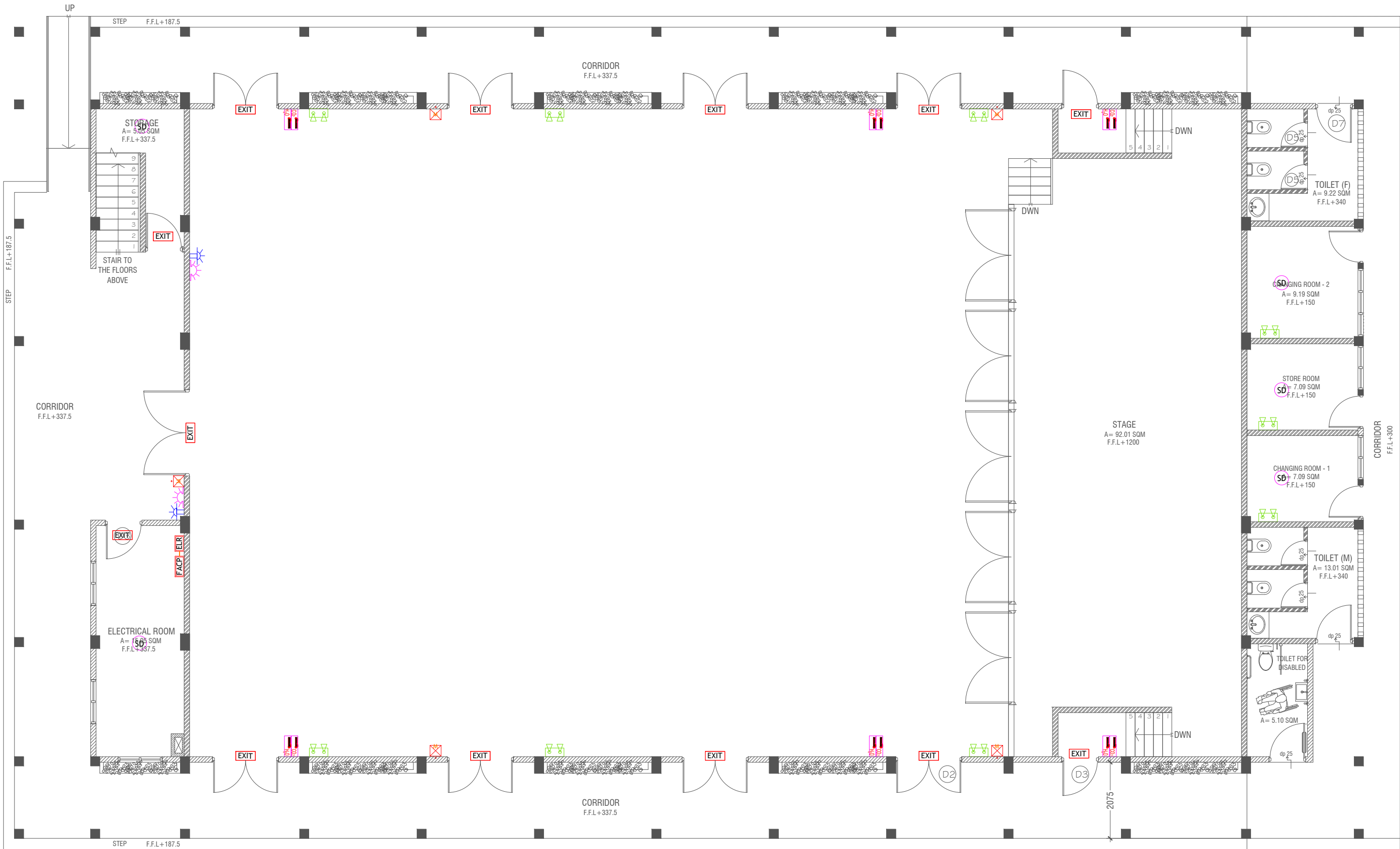
Project Number: B/2020/006  
Date: March 2021  
Architect: Mariyam Ibrahim Shareef  
Engineer: Mohamed Muthalib Waleed  
Services: Ashraf Ahmed  
Interior: -



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Title: Roof Plan - 2  
Drainage Layout  
Page: DR - 04/04

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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 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 1000AM.
4. ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

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Client: Ministry of Education

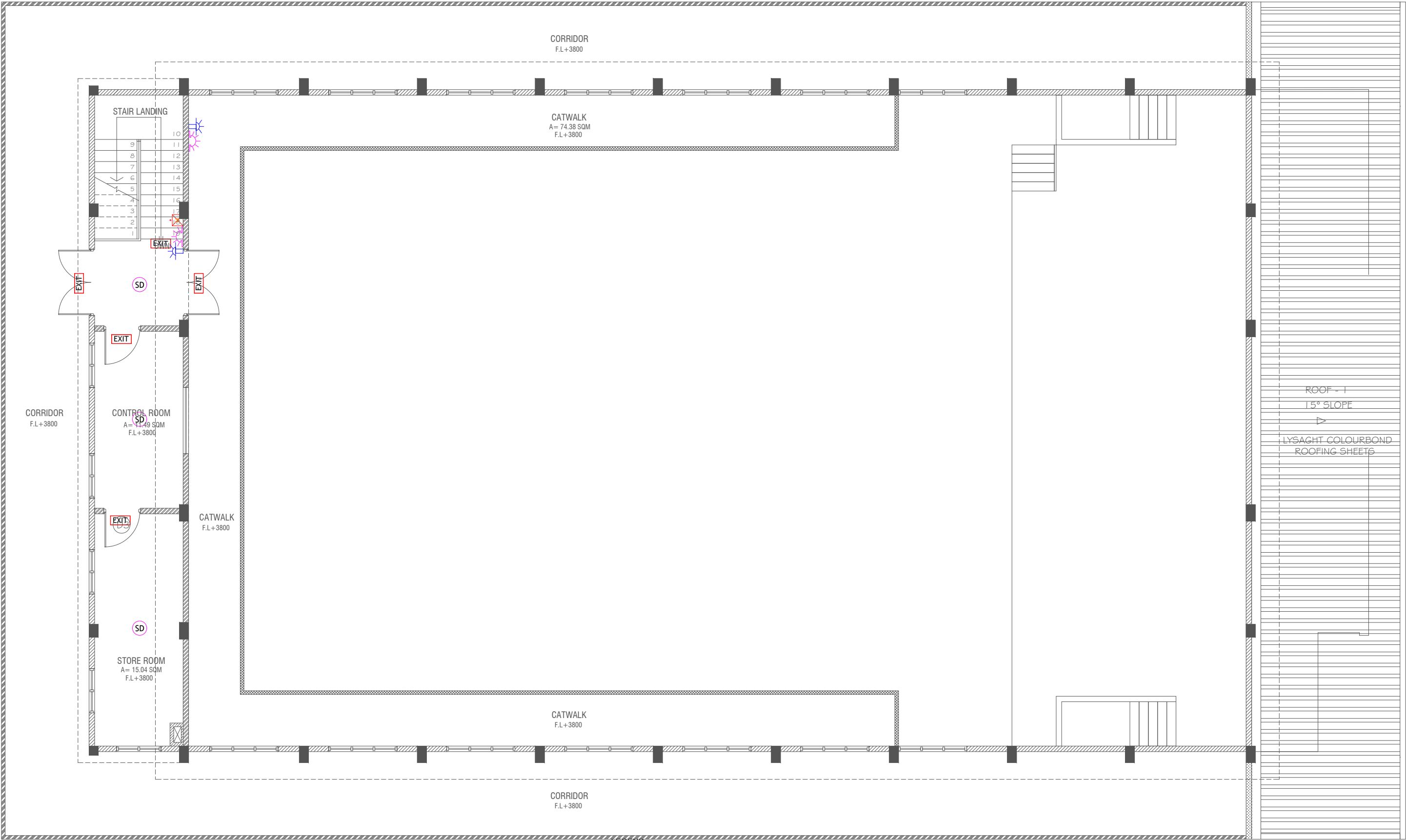
Project Number: B/2020/005  
Date: May/2021  
Architect: Mariyam Iqbal Shareef  
Engineer: Mohamed Muthalib Waleed  
Services: Architectural  
Interior: -



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Title: Ground Floor  
FDP Layout  
Page: FDP - 01/02

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# FIRST FLOOR FDP LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

## 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 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 1000AM.
4. ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

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Client: Ministry of Education

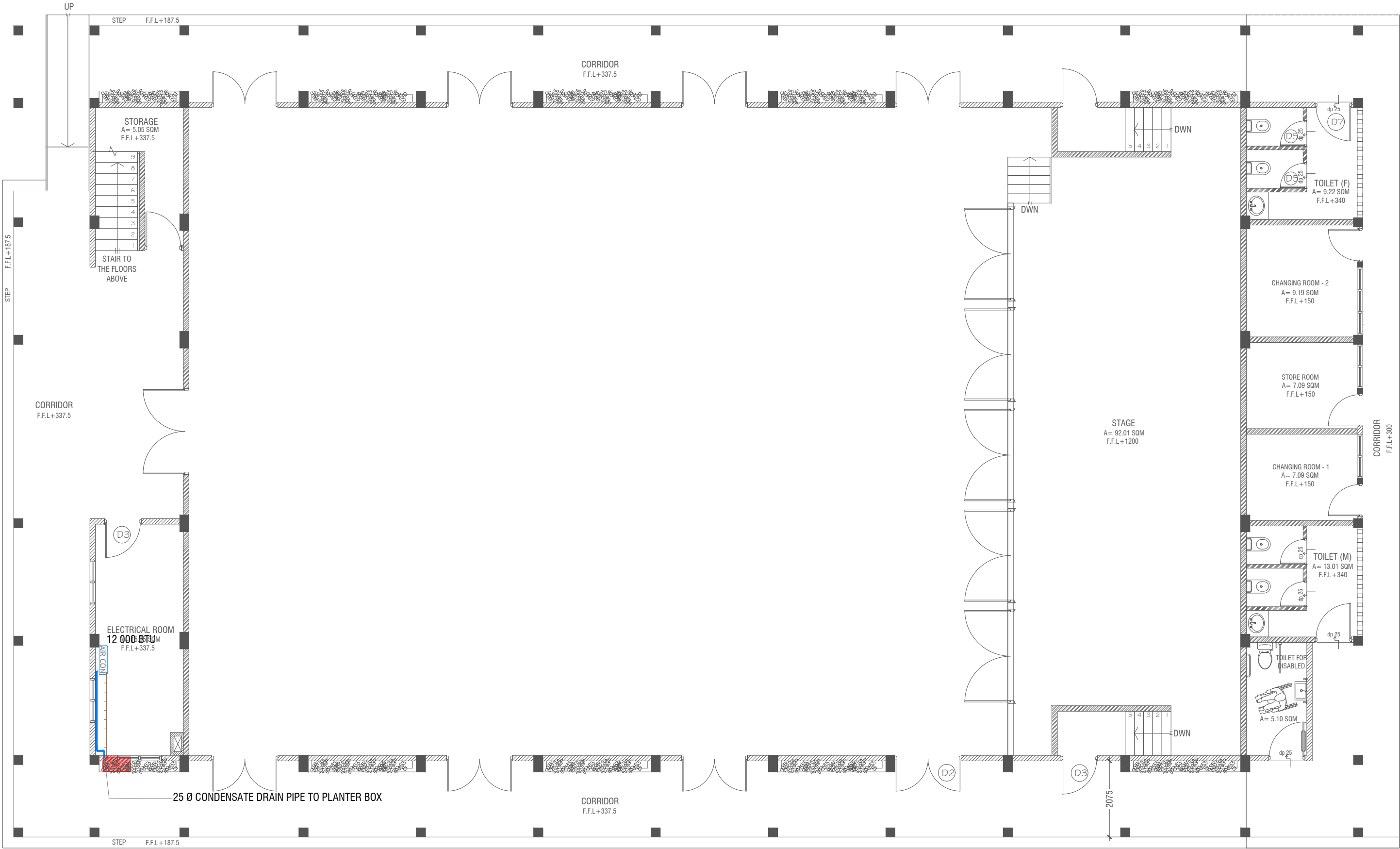
Project Number: B/2020/006  
Date: March 2021  
Architect: Mariyam Iqbal Shareef  
Engineer: Mohamed Muthalib Waleed  
Services: Ashraf Ahmed  
Interior: -



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Title: 1st Floor  
FDP Layout  
Page: FDP - 02/02

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**GROUND FLOOR ACV LAYOUT**  
SCALE 1:100

- LEGEND**
- REFRIGERANT PIPES ( SHALL NOT BE GREATER THAN 16FT FROM THE AIR-CONDITIONING SYSTEM TO OUTDOOR UNIT)
  - 25 Ø CONDENSATE DRAIN PIPE
  - CONDENSING UNIT