

Proposed Multipurpose Hall Building at Aa.Mathiveri School

SERVICES DRAWINGS

Client: Ministry of Education

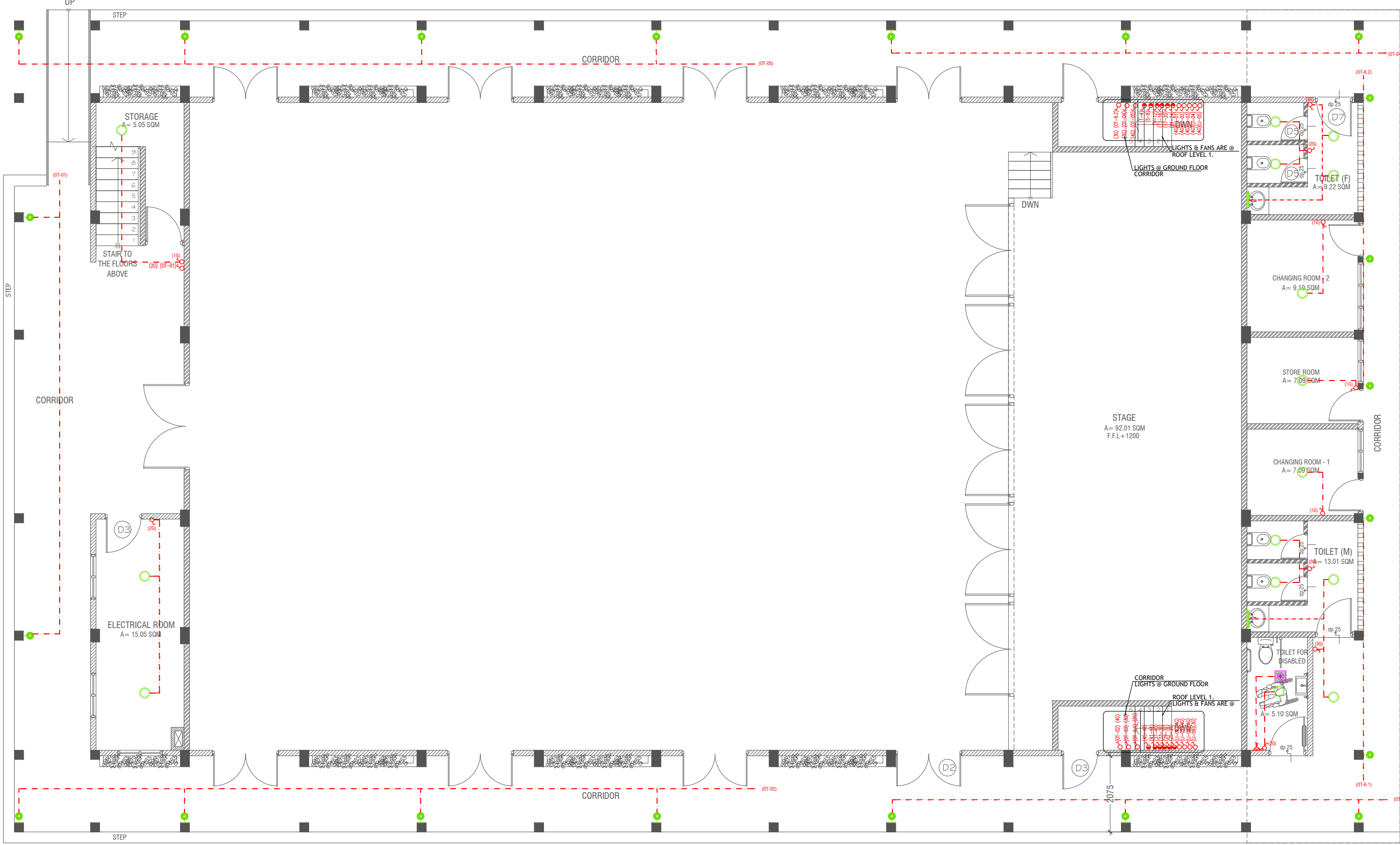


RIYAN PRIVATE LIMITED

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

TABLE OF CONTENTS

DRAWING No.	TITLE	REVISION No.	DATE	REMARKS
S E R V I C E S		---	---	---
EL - 01 / 02	GROUND FLOOR LIGHTING LAYOUT	---	---	---
EL - 02 / 02	1ST FLOOR LIGHTING LAYOUT	---	---	---
EP - 01 / 02	GROUND FLOOR POWER LAYOUT	---	---	---
EP - 02 / 02	1ST FLOOR POWER LAYOUT	---	---	---
DR - 01 /04	GROUND FLOOR PLUMBING & DRAINAGE LAYOUT	---	---	---
DR - 02 /04	1ST FLOOR DRAINAGE LAYOUT	---	---	---
DR - 03 /04	ROOF PLAN -1 DRAINAGE LAYOUT	---	---	---
DR - 04 /04	ROOF PLAN -2 DRAINAGE LAYOUT	---	---	---
FDP - 01 / 02	GROUND FLOOR FDP LAYOUT	---	---	---
FDP - 02 / 02	1ST FLOOR FDP LAYOUT	---	---	---
ACV - 01 / 01	GROUND FLOOR ACV LAYOUT	---	---	---
DETAIL - 01 / 01	GROUND WATER WELL DETAIL	---	---	---



GROUND FLOOR LIGHTING LAYOUT

SCALE 1:100



LEGEND

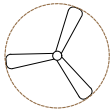


4 x 55W PLL Lamps
(Wire guard, Polycarbonate diffuser, Emergency and dimming versions)

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



EXHAUST FAN (CEILING MOUNTED)



FLEX OUTLET

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"

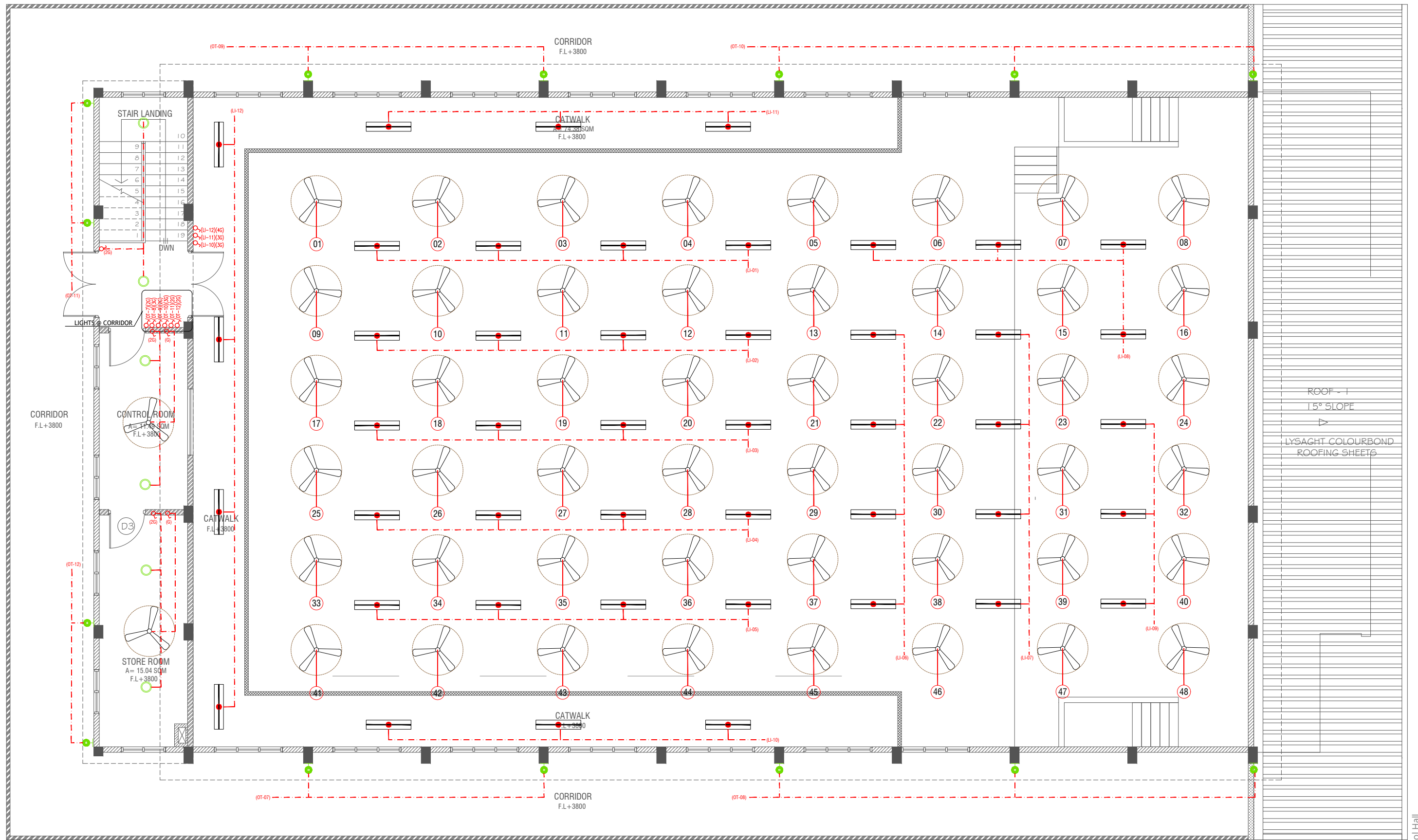
AaMathiveri School Hall
Client: Ministry of Education

Project Number: R/2020/006
Date: May 2021
Architect: Mariyam Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Services: Ahabah Ahmed
Interior: -

RIYAN PRIVATE LIMITED
t: +9633250491 f: +96333030776
e: info@riyan.com.om
www.riyan.com.om
3rd floor, H. Azam, Ammanmaga, Muscat

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

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.



FIRST FLOOR LIGHTING LAYOUT

SCALE 1:100



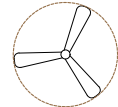
LEGEND



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



LED CEILING DOWN LIGHT (18W)



CEILING FAN (52" - 54")



40W (IP 65) OUT DOOR WALL LIGHT



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"

AaMathiveri School Hall
Client: Ministry of Education

Project Number: R/2020/006
Date: May 2021
Architect: Mariyam Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Services: Ashraf Ahmed
Interior: -



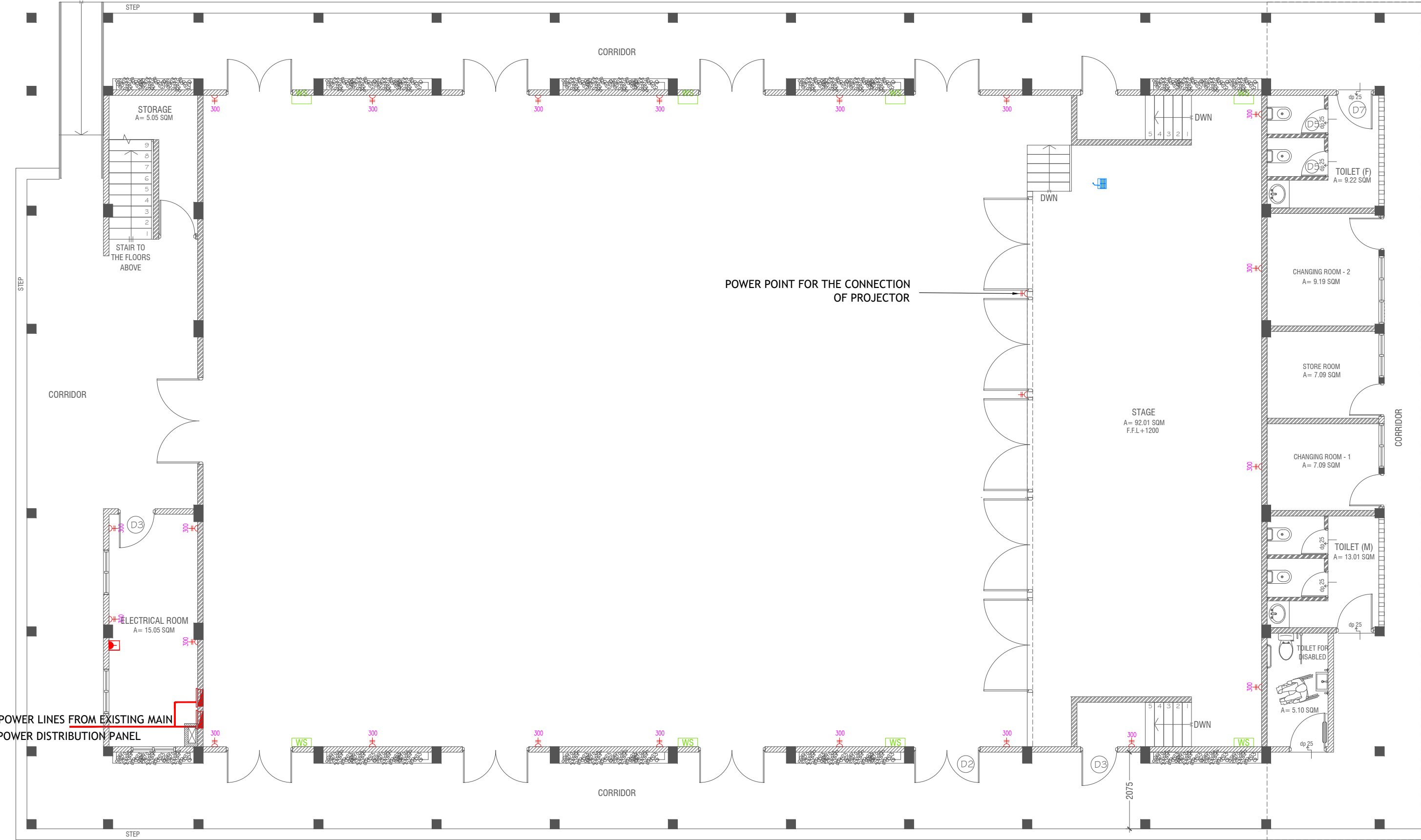
RYAN PRIVATE LIMITED

t: +963215049 f: +9632150776
e: info@ryan.com.mv
www.ryan.com.mv
3rd floor, H. Azam, Amman, Jordan

Title: 1st Floor
Lighting Layout

Page: EL - 02/02

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.



GROUND FLOOR POWER LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

- 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
- WIRED MIC IS PROVIDED
- 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

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 (LOCATED AT ELECTRICAL ROOM)

AaMathiveri School Hall
Client: Ministry of Education

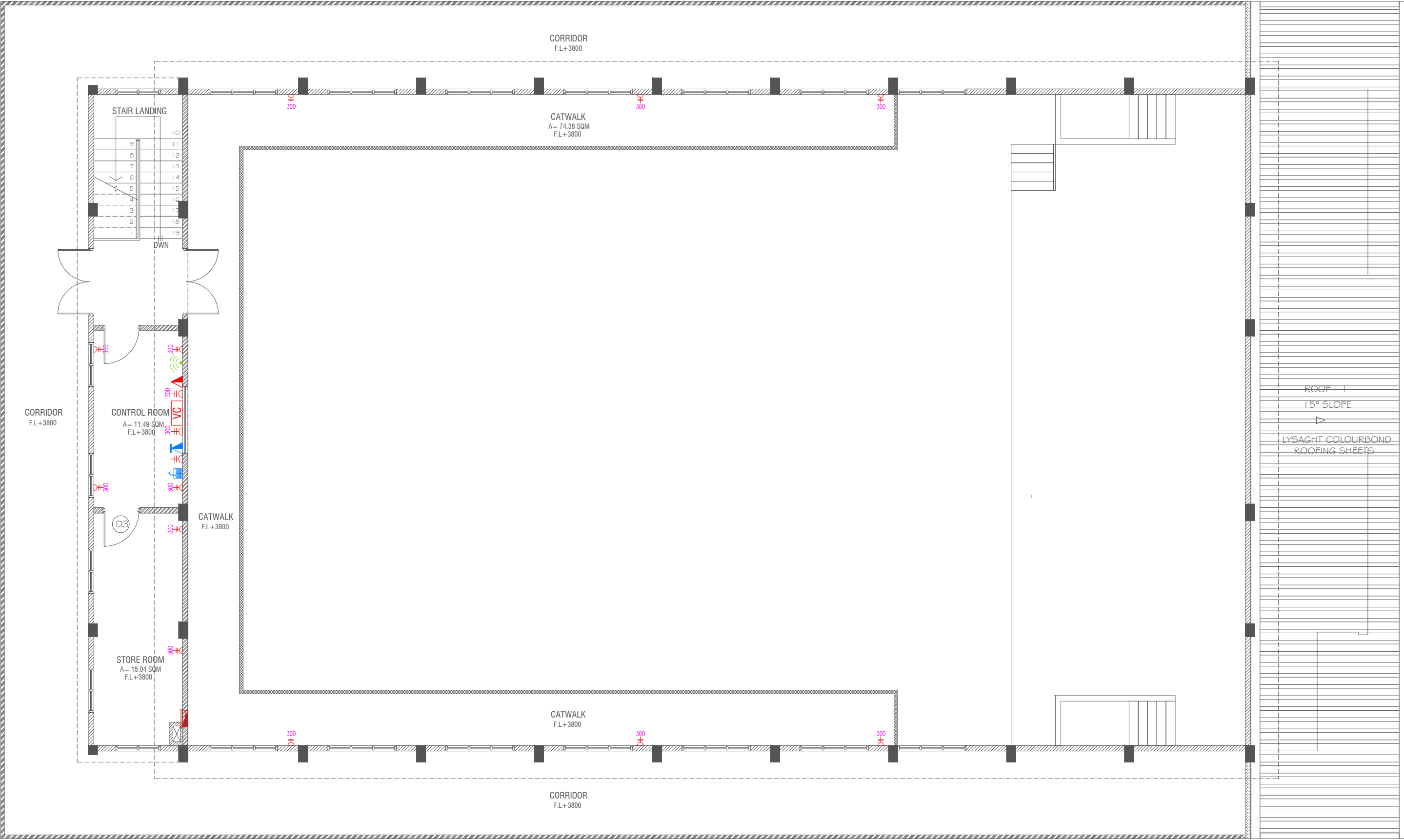
Project Number: R/2020/006
Date: May 2021
Architect: Mariyam Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Services: AaMathiveri School Hall
Interior: -



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

Title: Ground Floor Power Layout
Page: EP - 01/02

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.



FIRST FLOOR POWER LAYOUT

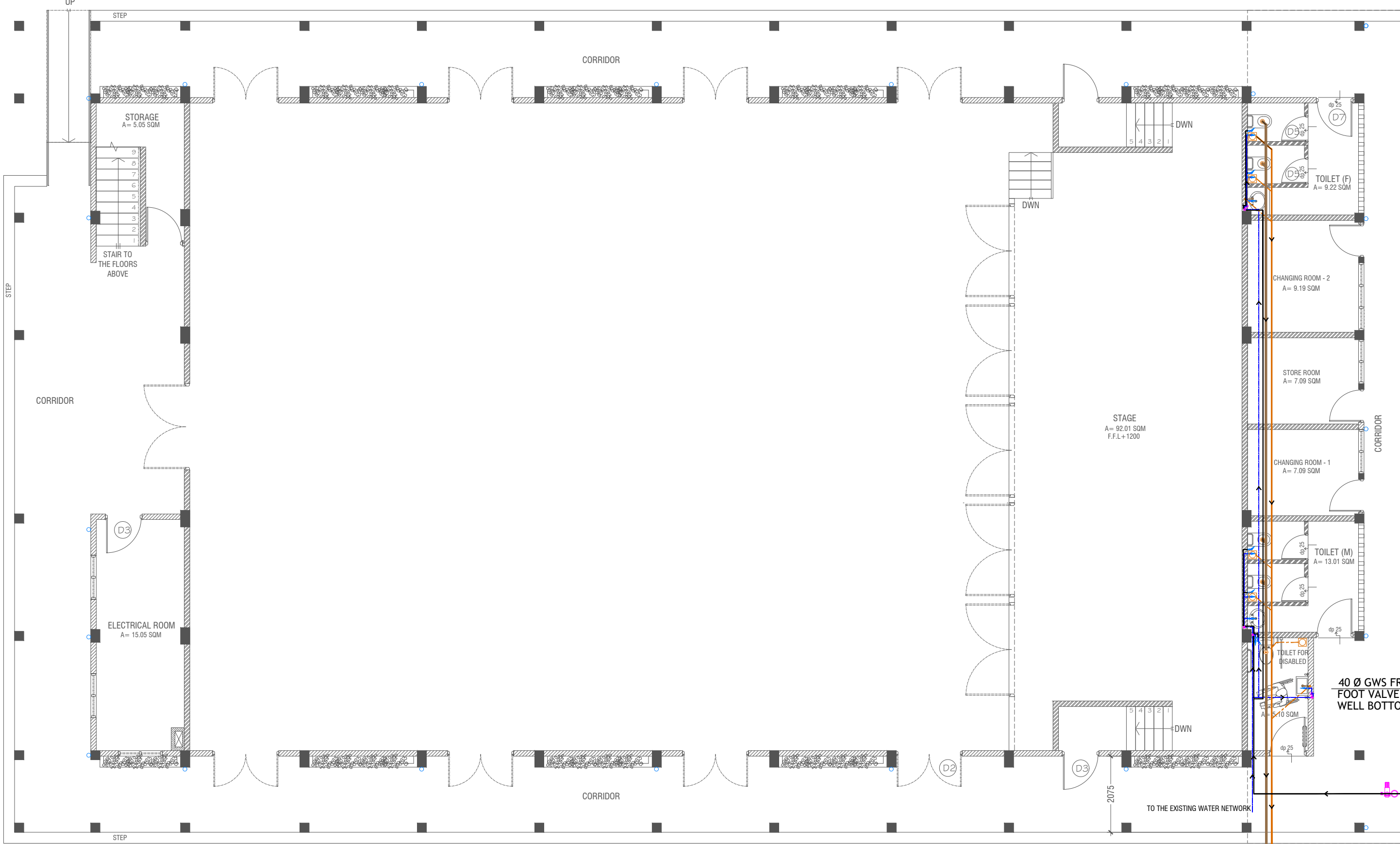
SCALE 1:100

- 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

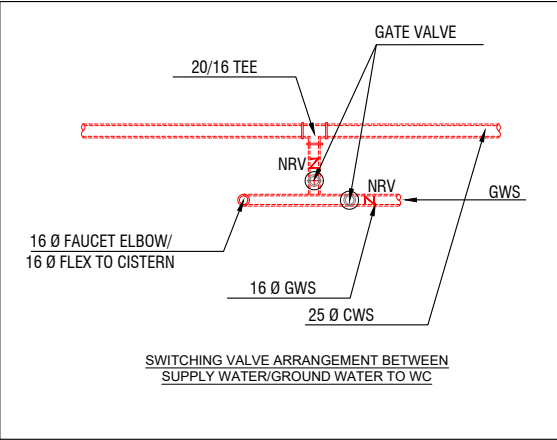


GROUND FLOOR PLUMBING & DRAINAGE LAYOUT



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 |



TO THE PROPOSED SEPTIC TANK IN CLASSROOM BLOCK

- 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

AaMathiveri School Hall
Client: Ministry of Education

Project Number: R/2020/006
Date: May 2021
Architect: Narayan Isha Shreef
Engineer: Mohamed Muthalib Waleed
Services: A/Abdullah Jaleel
Interior: -

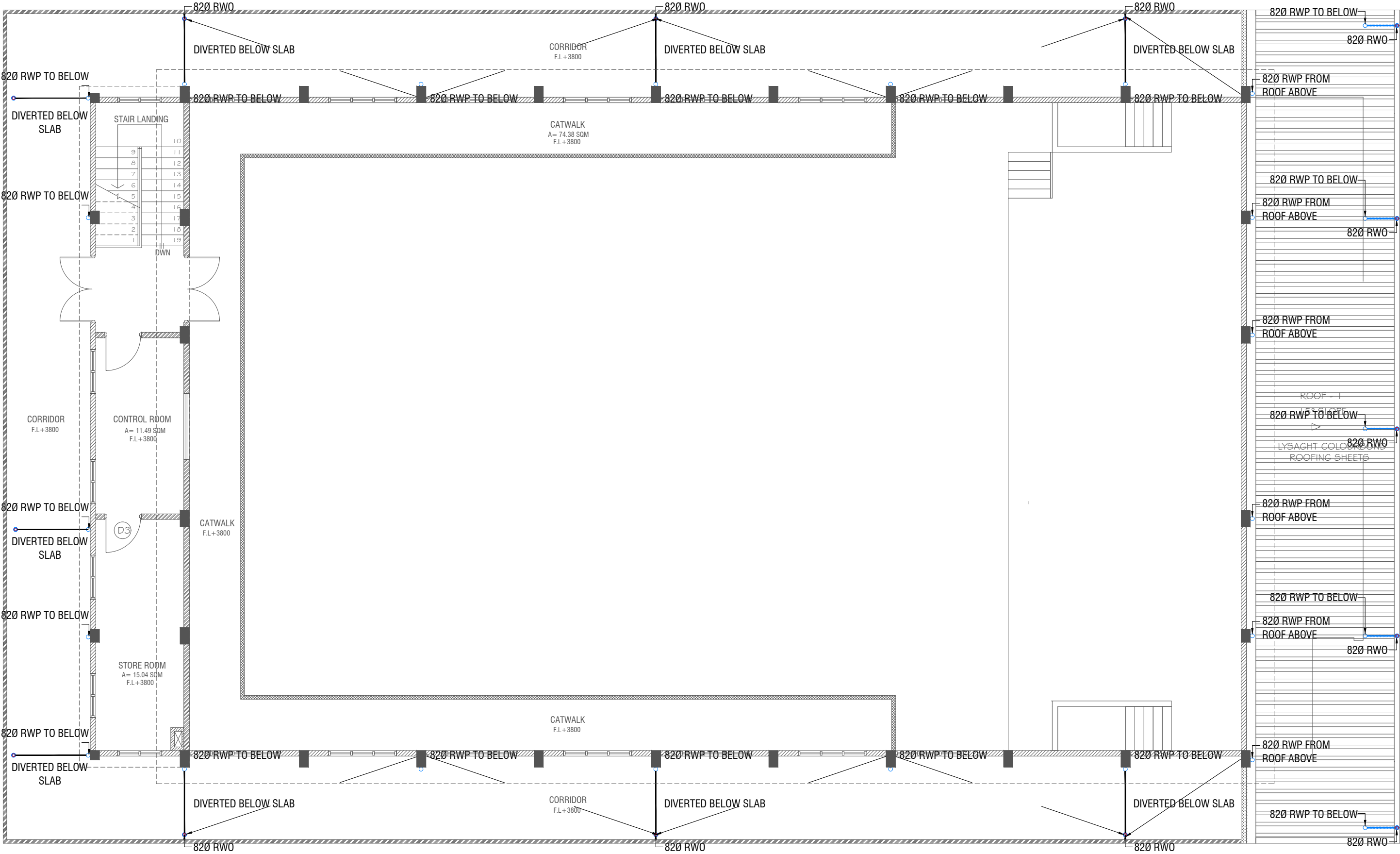
Rev no
Date

RIYAN PRIVATE LIMITED

t: +9633150491 f: +963310776
e: info@riyan.com.om
www.riyan.com.om
3rd floor, H. Azam, Al-Amreena, Muscat, Oman

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

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.



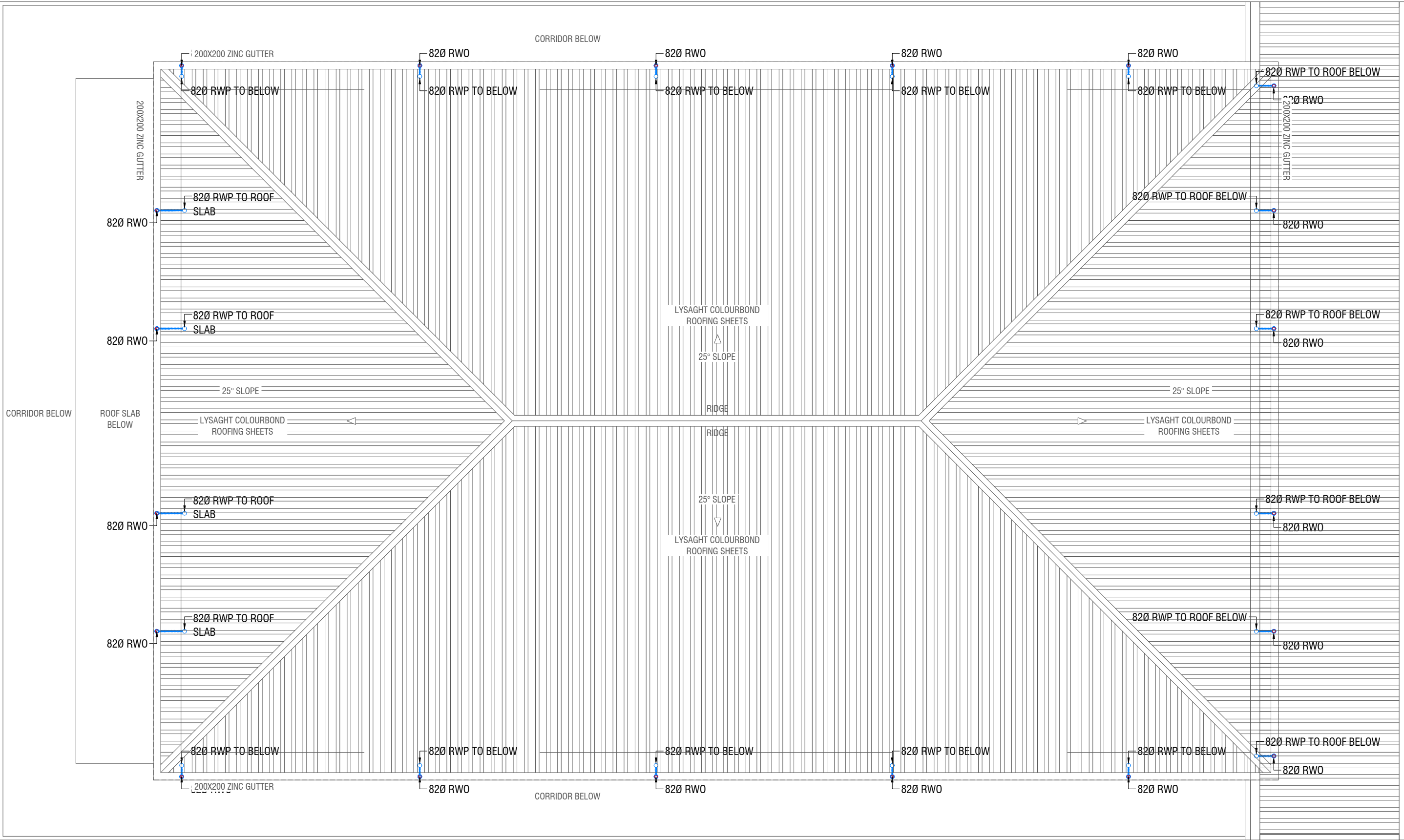
FIRST FLOOR DRAINAGE LAYOUT



- 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





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

AaMathiveri School Hall
Client: Ministry of Education

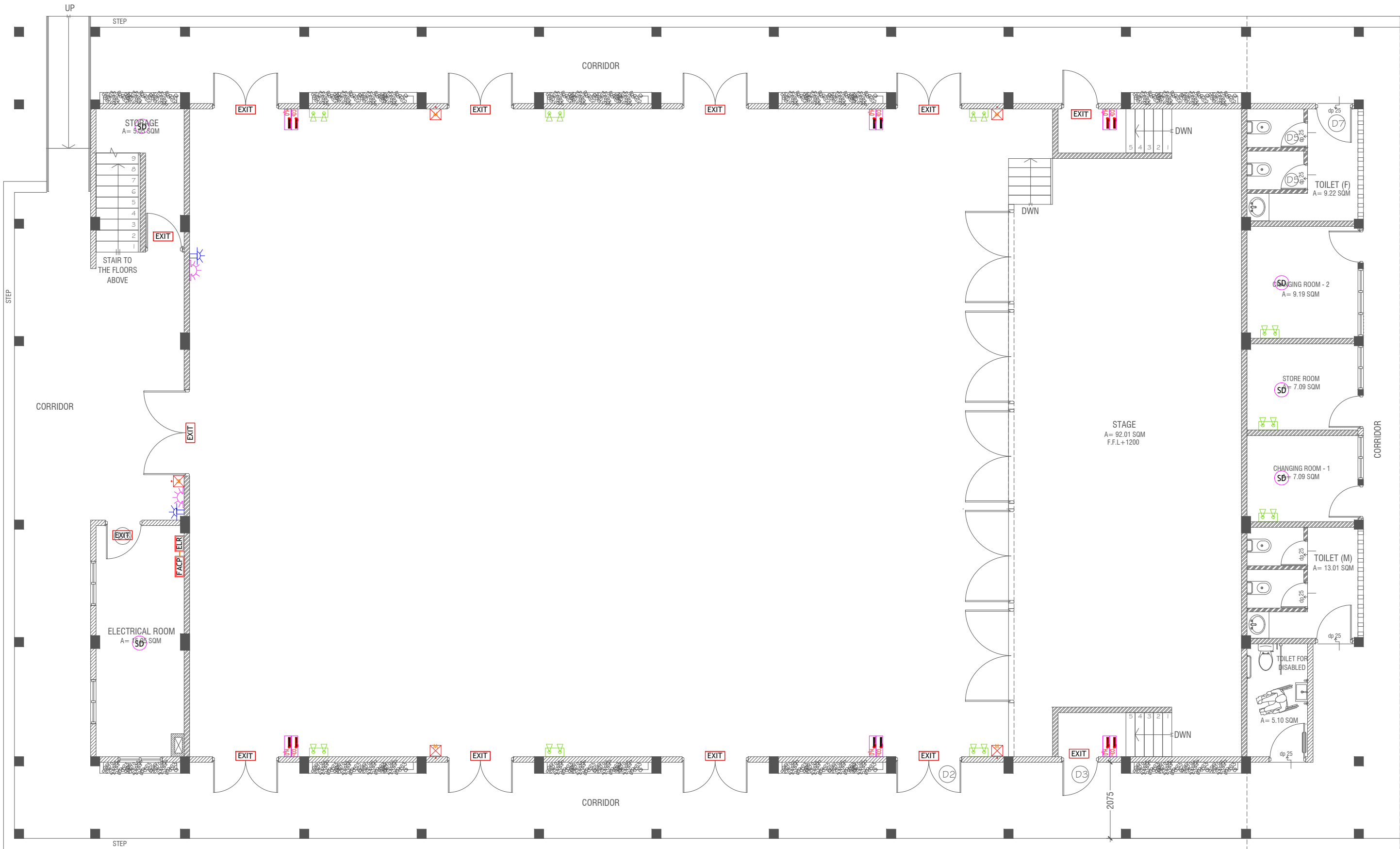
Project Number: R/2020/006
Date: May 2021
Architect: Mariyam Idris Shaeef
Engineer: Mohamed Muthaib Waleed
Services: Ashraf Ahmed
Interior: -



RIYAN PRIVATE LIMITED
t: +963215049 f: +963210776
e: info@riyan.com.om
www.riyan.com.om
3rd floor, H. Azim, Ammanmaga, Muscat

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

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.



GROUND FLOOR FDP LAYOUT

SCALE 1:100



LEGEND

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

- CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- WET CHEMICAL FIRE EXTINGUISHER (LOAD 7.2KG)
- H₂O 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/BRAKET SHALL BE HOT DIPPED GALVANIZED TO 1000AM.
4. ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)

AaMathiveri School Hall
Client: Ministry of Education

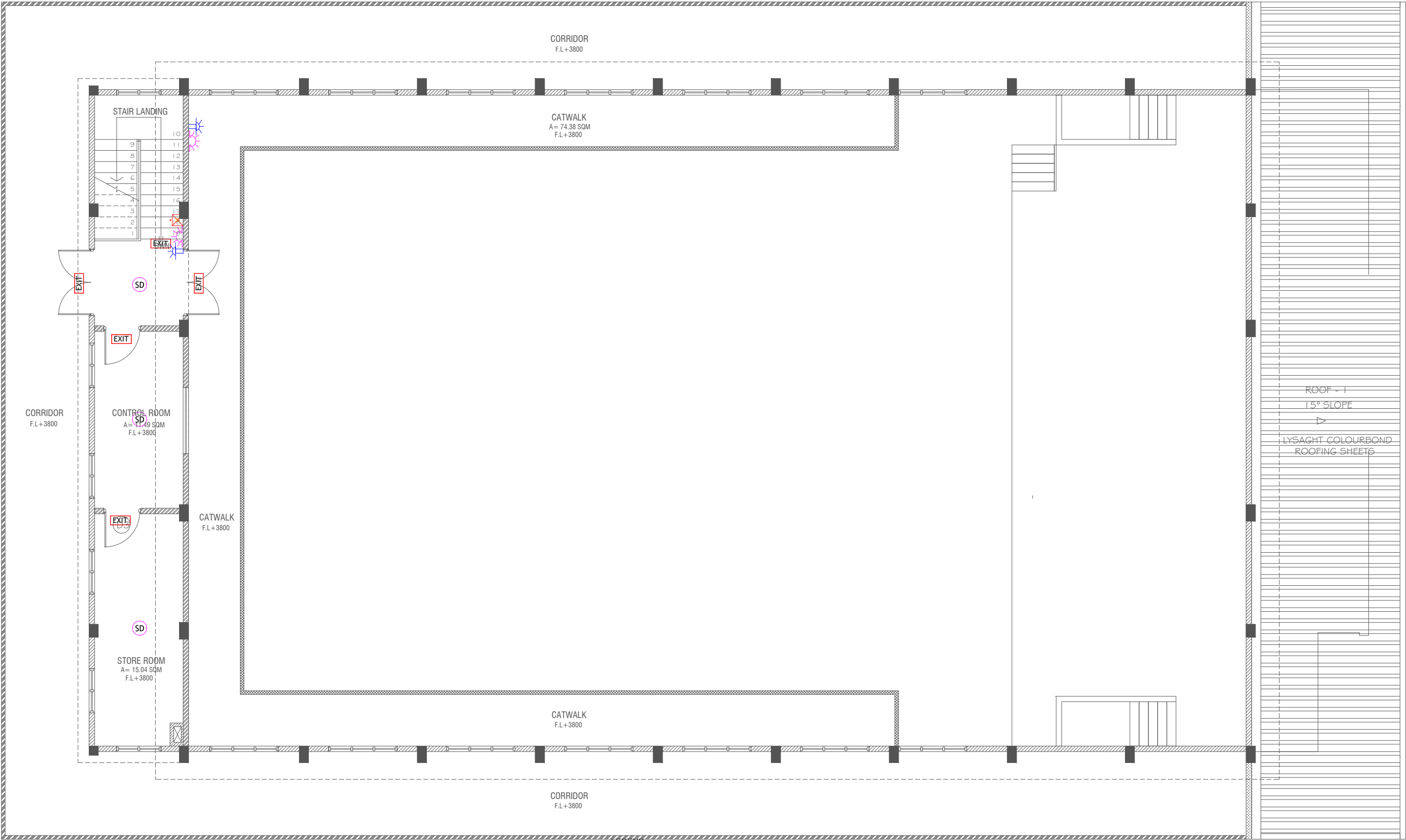
Project Number: R/2020/006
Date: May 2021
Architect: Narayan Irasha Shareef
Engineer: Mohamed Muthalib Waleed
Services: Architectural, MEP, Structural, Interior
Interior: -



RIYAN PRIVATE LIMITED
t: +963325049 f: +9633303776
e: info@riyan.com.jo
www.riyan.com.jo
3rd floor, H. Azam, Amman, Jordan

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

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



FIRST FLOOR FDP LAYOUT

SCALE 1:100



LEGEND

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

- CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- WET CHEMICAL FIRE EXTINGUISHER (LOAD 7.2KG)
- H₂O 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)

Aa.Mathiveri School Hall
Client: Ministry of Education

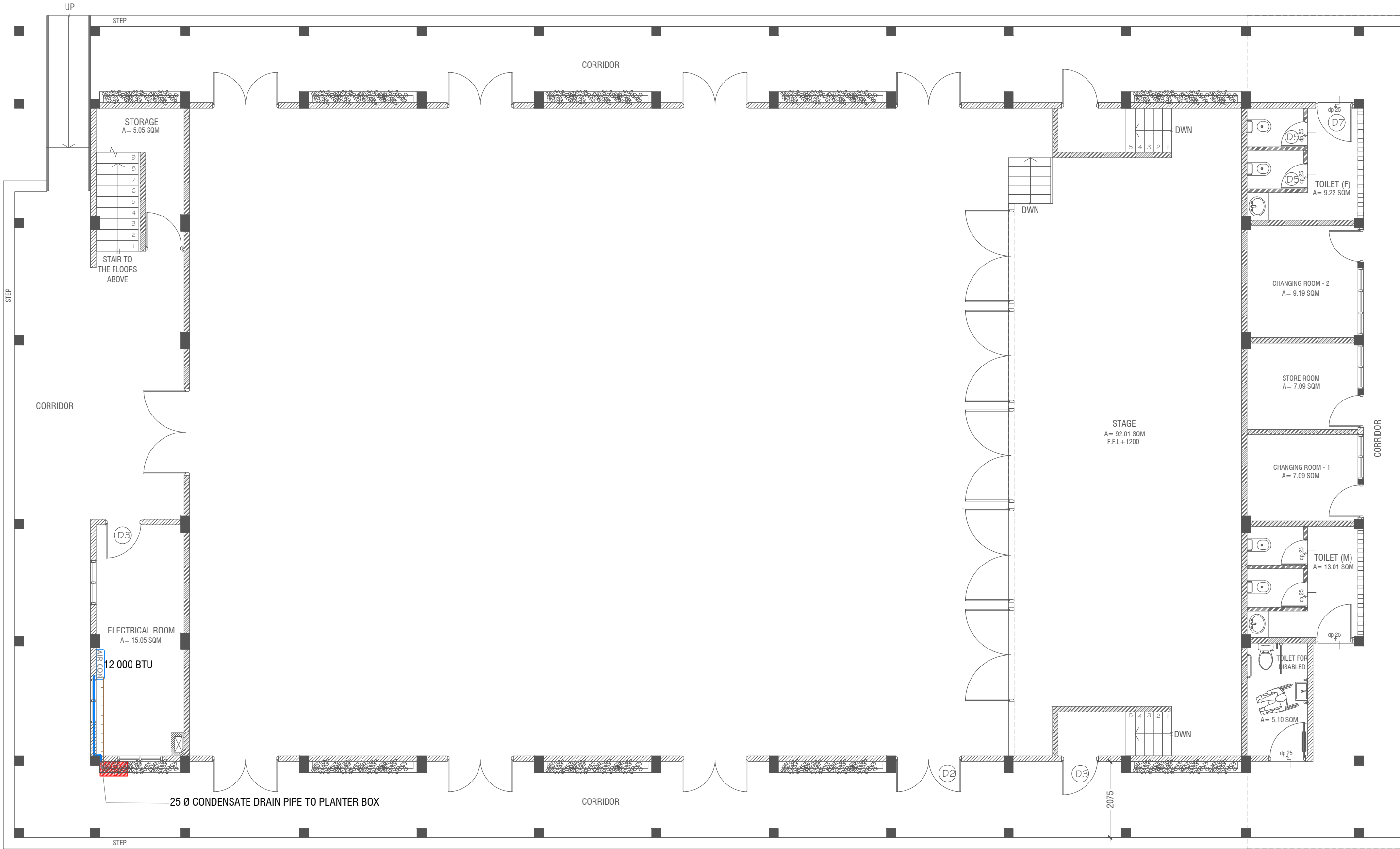
Project Number: RI/2020/006
Date: May 2021
Architect: Narayan Isha Shreef
Engineer: Mohamed Muthaib Waleed
Services: Ashraf Ahmed
Interior: -



RIYAN PRIVATE LIMITED
t: +960325049 f: +9603303776
e: info@riyan.com.mv
www.riyan.com.mv
3rd floor, H. Azam, Ammanmogu, Malé

Title: 1st 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.



GROUND FLOOR ACV LAYOUT

SCALE 1:100



LEGEND

- REFRIGERANT PIPES
- 25 Ø CONDENSATE DRAIN PIPE
- CU CONDENSING UNIT

AaMathiveri School Hall
Client: Ministry of Education

Rev no	Date
1	2023/05/27
2	2023/05/27
3	2023/05/27
4	2023/05/27
5	2023/05/27
6	2023/05/27
7	2023/05/27
8	2023/05/27
9	2023/05/27
10	2023/05/27
11	2023/05/27
12	2023/05/27
13	2023/05/27
14	2023/05/27
15	2023/05/27
16	2023/05/27
17	2023/05/27
18	2023/05/27
19	2023/05/27
20	2023/05/27
21	2023/05/27
22	2023/05/27
23	2023/05/27
24	2023/05/27
25	2023/05/27
26	2023/05/27
27	2023/05/27
28	2023/05/27
29	2023/05/27
30	2023/05/27
31	2023/05/27
32	2023/05/27
33	2023/05/27
34	2023/05/27
35	2023/05/27
36	2023/05/27
37	2023/05/27
38	2023/05/27
39	2023/05/27
40	2023/05/27
41	2023/05/27
42	2023/05/27
43	2023/05/27
44	2023/05/27
45	2023/05/27
46	2023/05/27
47	2023/05/27
48	2023/05/27
49	2023/05/27
50	2023/05/27
51	2023/05/27
52	2023/05/27
53	2023/05/27
54	2023/05/27
55	2023/05/27
56	2023/05/27
57	2023/05/27
58	2023/05/27
59	2023/05/27
60	2023/05/27
61	2023/05/27
62	2023/05/27
63	2023/05/27
64	2023/05/27
65	2023/05/27
66	2023/05/27
67	2023/05/27
68	2023/05/27
69	2023/05/27
70	2023/05/27
71	2023/05/27
72	2023/05/27
73	2023/05/27
74	2023/05/27
75	2023/05/27
76	2023/05/27
77	2023/05/27
78	2023/05/27
79	2023/05/27
80	2023/05/27
81	2023/05/27
82	2023/05/27
83	2023/05/27
84	2023/05/27
85	2023/05/27
86	2023/05/27
87	2023/05/27
88	2023/05/27
89	2023/05/27
90	2023/05/27
91	2023/05/27
92	2023/05/27
93	2023/05/27
94	2023/05/27
95	2023/05/27
96	2023/05/27
97	2023/05/27
98	2023/05/27
99	2023/05/27
100	2023/05/27

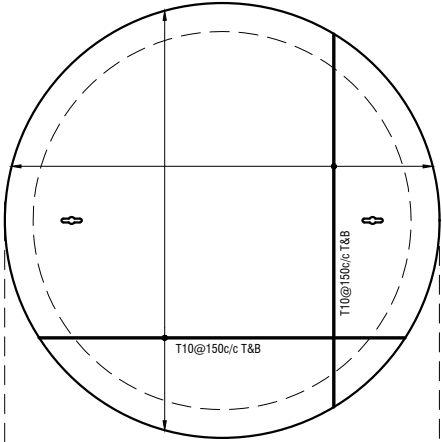


RIYAN PRIVATE LIMITED
t: +963325049 f: +963320776
e: info@riyan.com.nv
www.riyan.com.nv
3rd floor, H. Azam, Ammanmogu, Malé

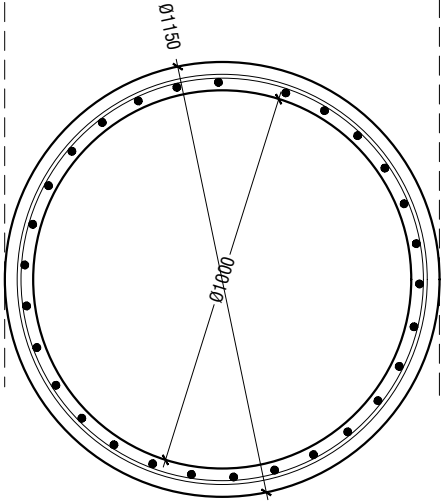
Title: Ground Floor
ACV Layout
Page: ACV - 01/01

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.

WATER TANK WALL TOP & BOTTOM SLAB



WATER TANK WALL REINF.

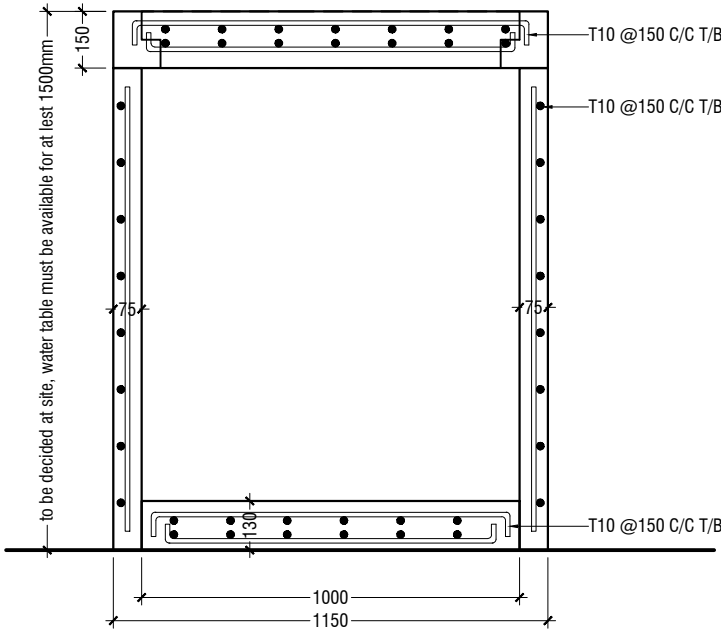


WATER TANK DETAILS

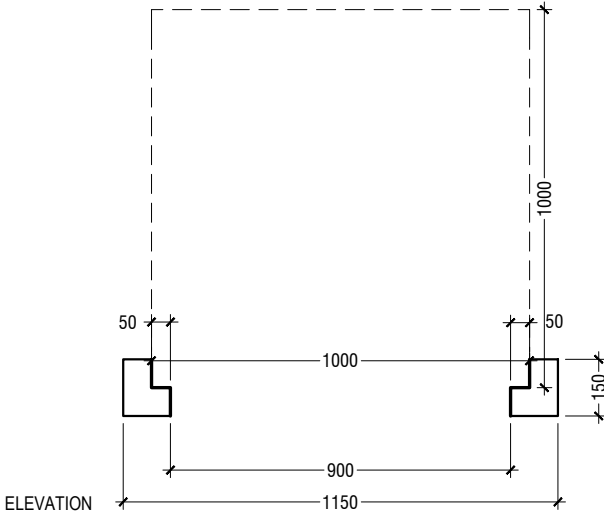
SCALE 1:20



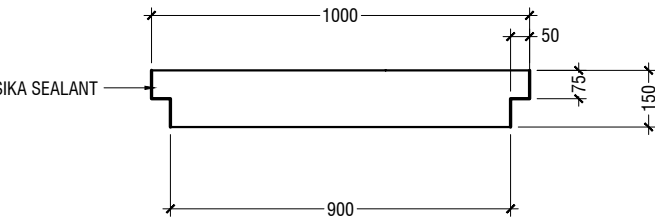
WATER TANK SECTION



ELEVATION

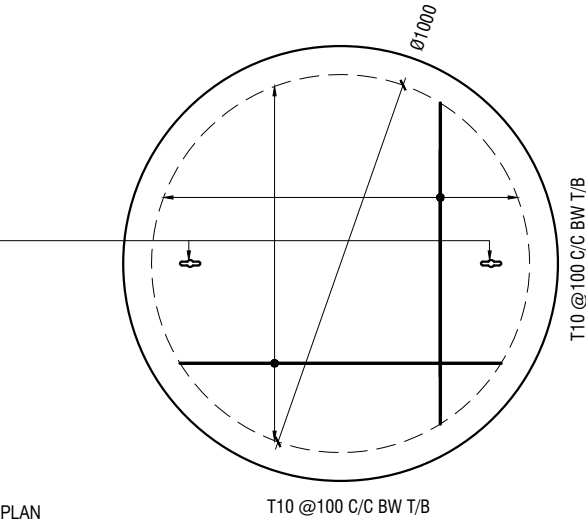


SECTION



KEYHOLES (THE KEYHOLES SHALL BE COVERED FROM A RUBBER SEALER ON TOP OF IT)

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

