

R. Maduvvaree School Hall & 08 Classrooms
(04 Storey)

ARCHITECTURAL & STRUCTURAL DRAWINGS

Client: Ministry of Education



RIYAN PRIVATE LIMITED

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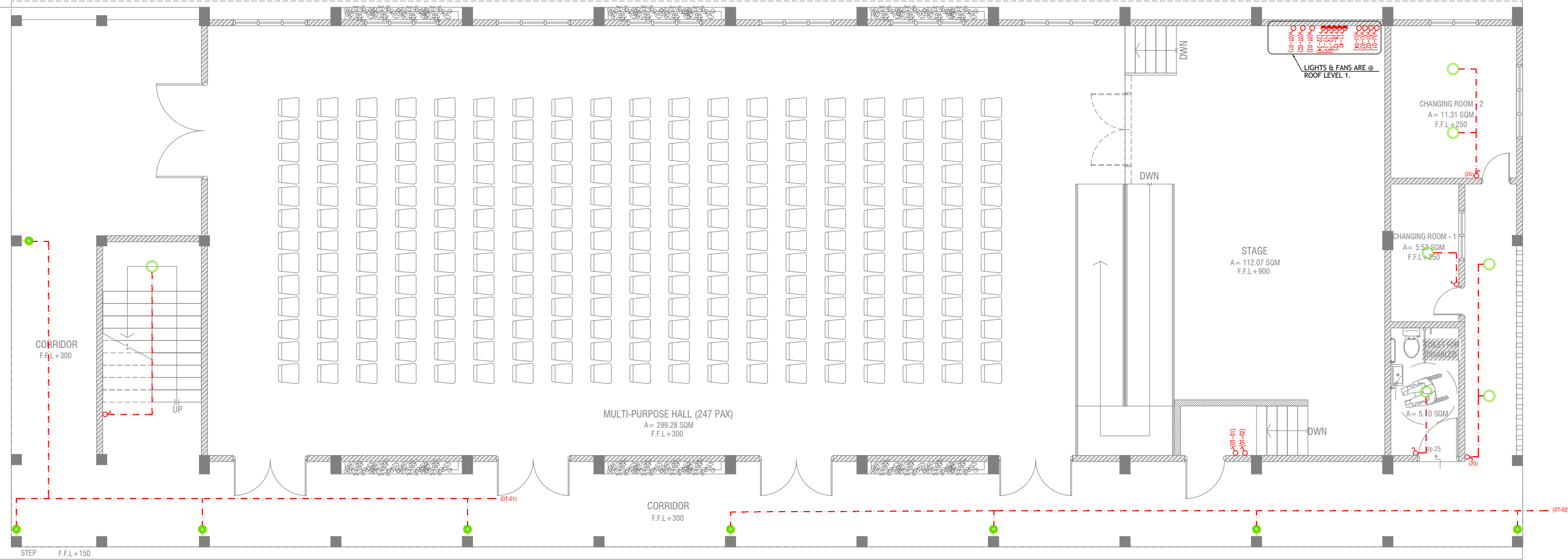
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3rd floor, H. Azum, Ameneemagui, Male

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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)
- CEILING DOWN LIGHT (18W)
- CEILING FAN (52" - 54")
- OUT DOOR WALL LIGHT
- LIGHT SWITCH
- CEILING FAN SWITCH
- SWITCHING LINE

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

R.Maduwaree School Hall & 08 Classroom (04 Storey)

Client: Ministry of Education

Project Number: R/2017/012

Date: October 2019

Architect: Razana Amir

Engineer: Ahmed Zuhair Zakiem

Structural Engineer: Razana Amir

Services: Agha Ali Ahmed

Interior: -

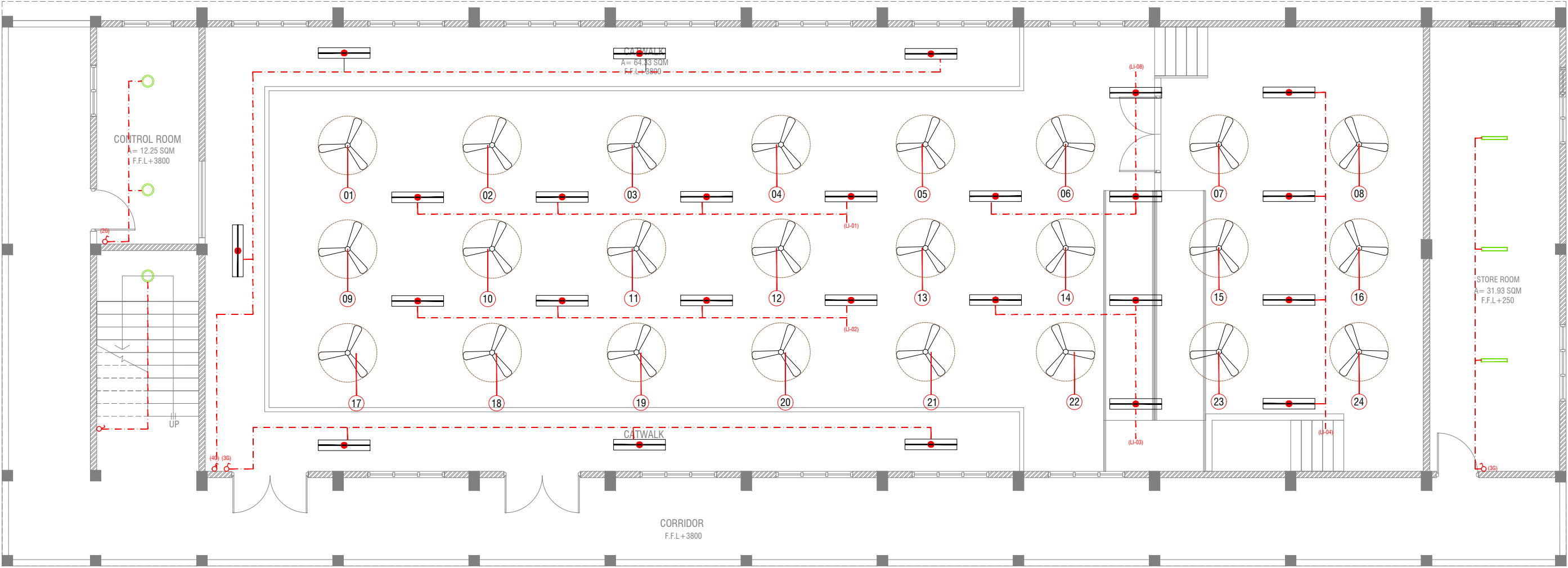
Rev no

Date

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3rd floor, H. Azam, Ammenemogau, Male'

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

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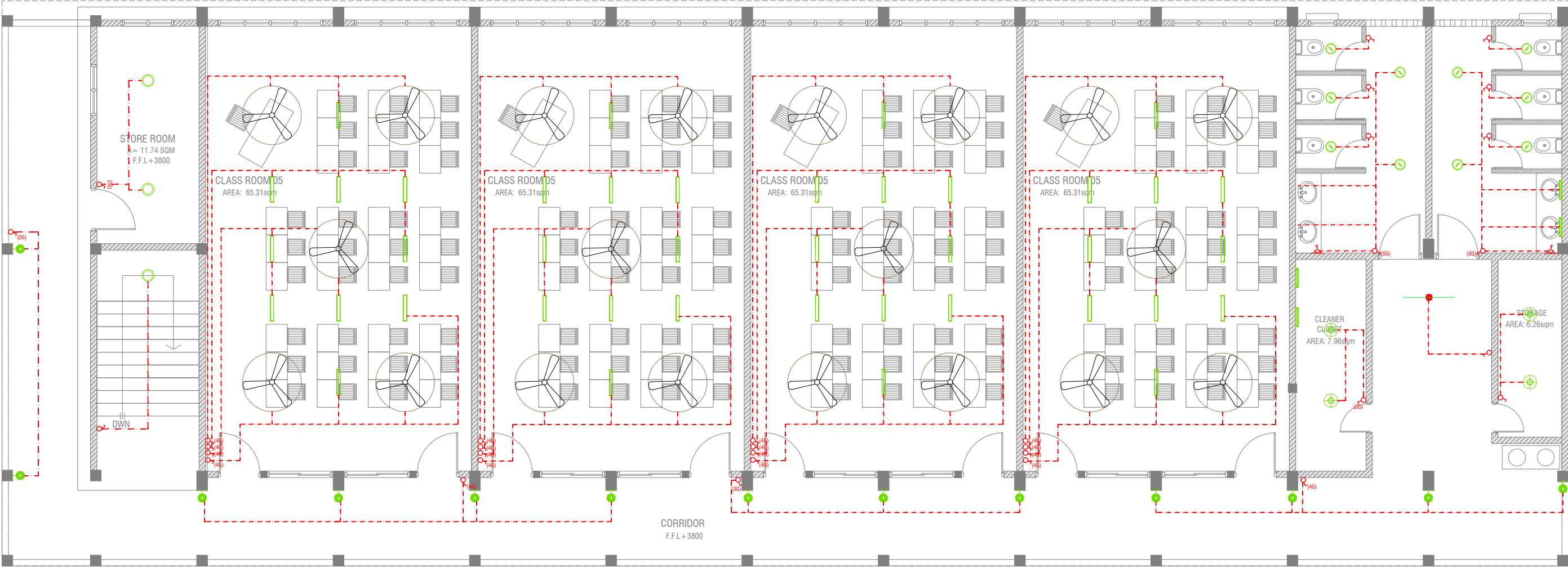
FIRST FLOOR LIGHTING LAYOUT

SCALE 1:100

LEGEND

- 4 x 55W PLL Lamps
(Wire guard, Polycarbonate diffuser, Emergency and dimming versions)
- C2 CEILING DOWN LIGHT (18W)
- CEILING FAN (52" - 54")
- WPD OUT DOOR WALL LIGHT
- LIGHT SWITCH
- CEILING FAN SWITCH
- SWITCHING LINE

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



SECOND & THIRD FLOOR LIGHTING LAYOUT

SCALE 1:100

LEGEND

- WPD OUT DOOR WALL LIGHT
- ML MIRROR LIGHT (7W LED LIGHT)
- H2 RECESSED DOWN LIGHT 12W
- CL CEILING LIGHT 18W CFL
- WP 2 X 4' TUBE LIGHT WITH WEATHER PROOF OPAL CASING
- C2 CEILING DOWN LIGHT (18W)
- LIGHT SWITCH
- SWITCHING LINE

CL2 2 X 4' FLUORESENT 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

R.Maduwaree School Hall & 08 Classroom (04 Storey)

Client: Ministry of Education

Project Number: R/2017/012

Date: October 2019

Architect: Razana Amir

Engineer: Ahmed Zuhair Zakiem

Services: Electrical

Interior: -

Rev no

Date

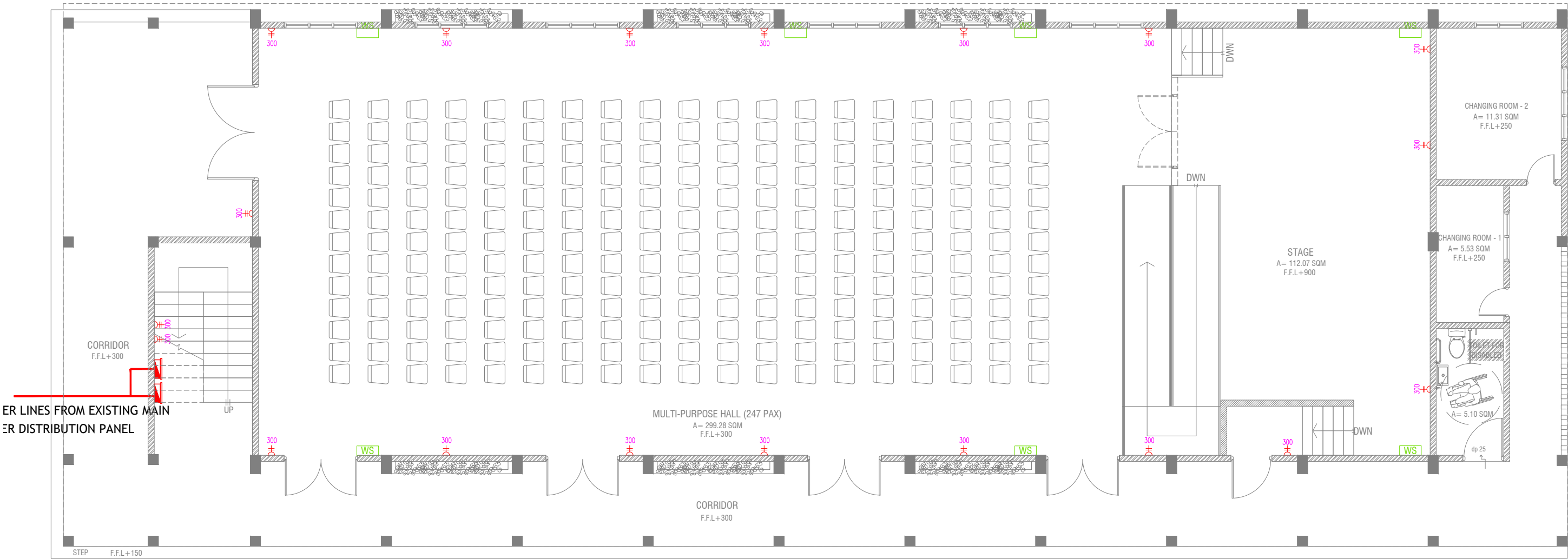


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3rd floor, H. Azam, Ammenemogga, Malé

Title: Second - Third
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

R.Maduwaree School Hall & 08 Classroom (04 Storey)

Client: Ministry of Education

Rev no	Date
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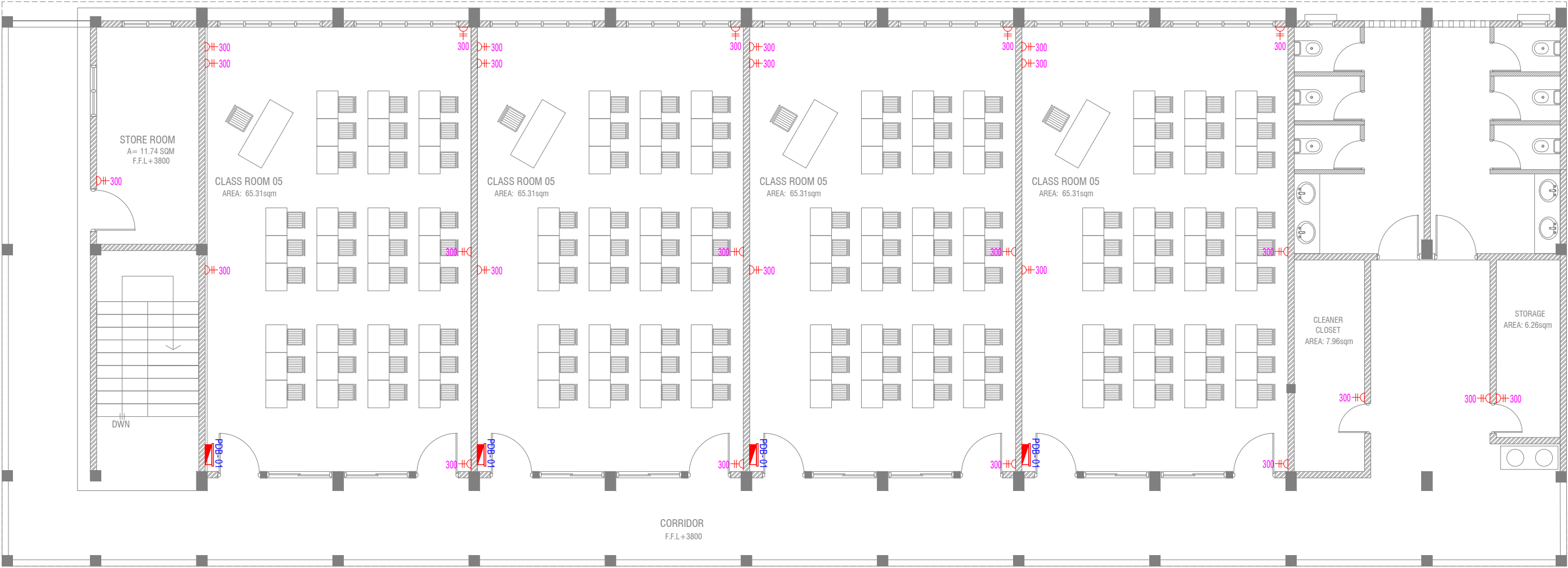
Project Number: R/2017/012
Date: October 2019
Architect: Razana Amir
Engineer: Ahmed Zuhair Zakiem
Services: A/Abdullah Ahmed
Interior: -



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Title: Ground Floor
Power Layout
Page: EP - 01/03

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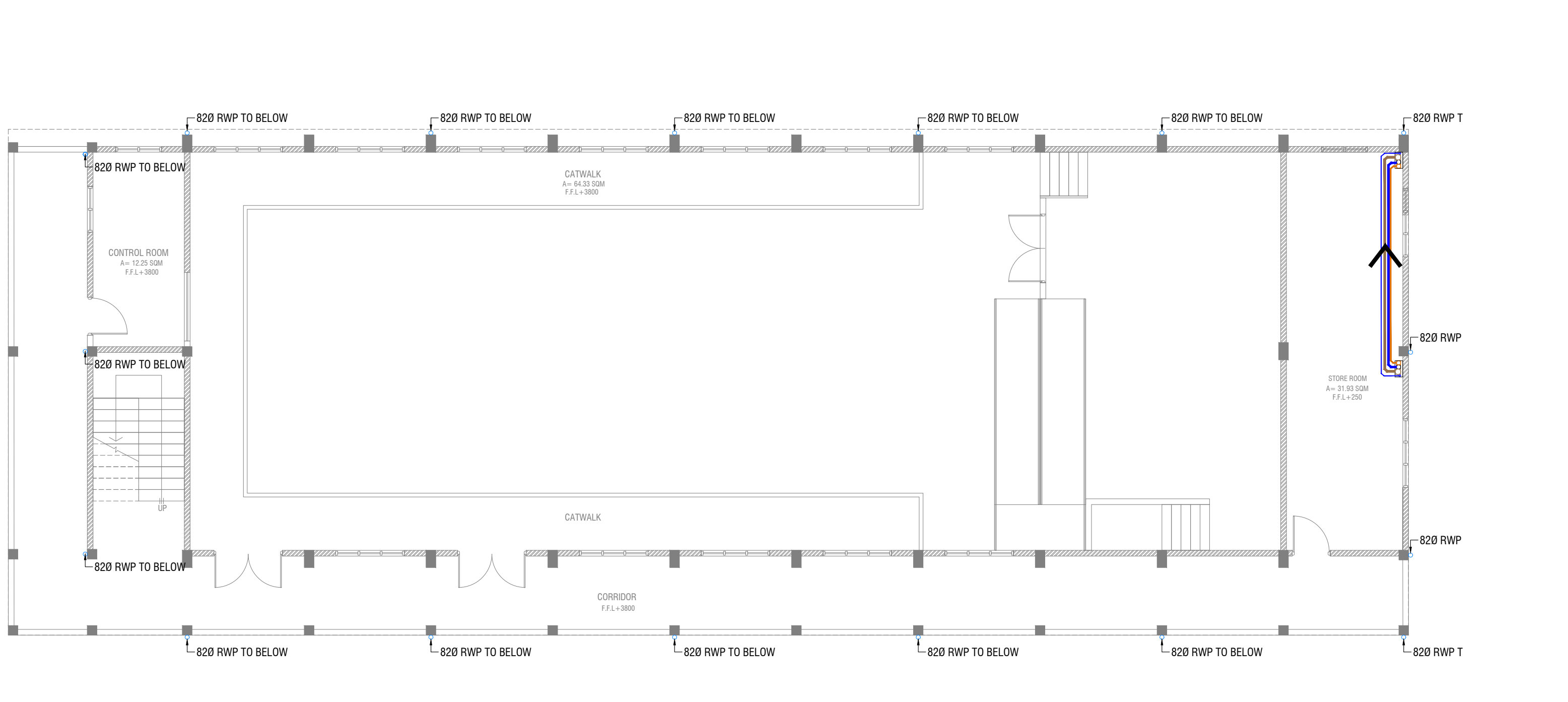


SECOND & THIRD FLOOR POWER LAYOUT

SCALE 1:100

- 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

R. Maduwaree School Hall & 08 Classroom (04 Storey)



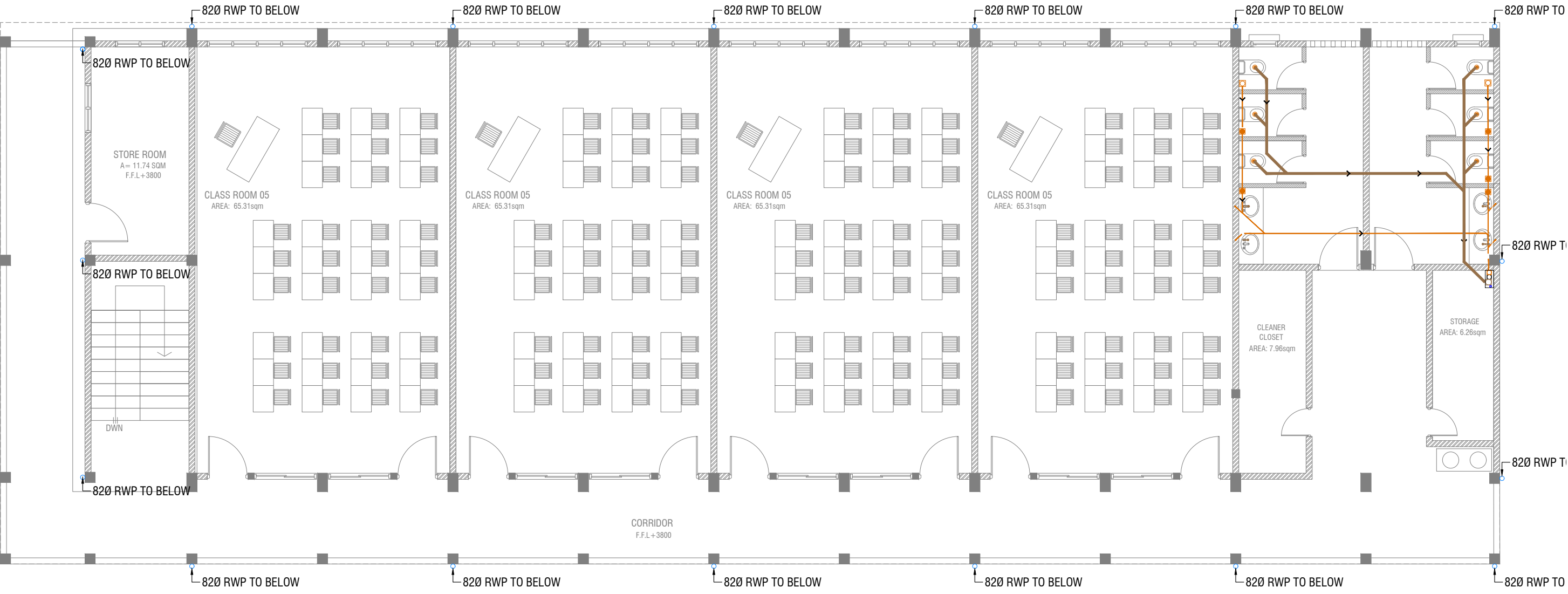
FIRST FLOOR DRAINAGE LAYOUT



LEGEND

- 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

NOTES: -
-ALL COLD WATER PIPES SHOULD BE CPVC



SECOND & THIRD FLOOR DRAINAGE LAYOUT



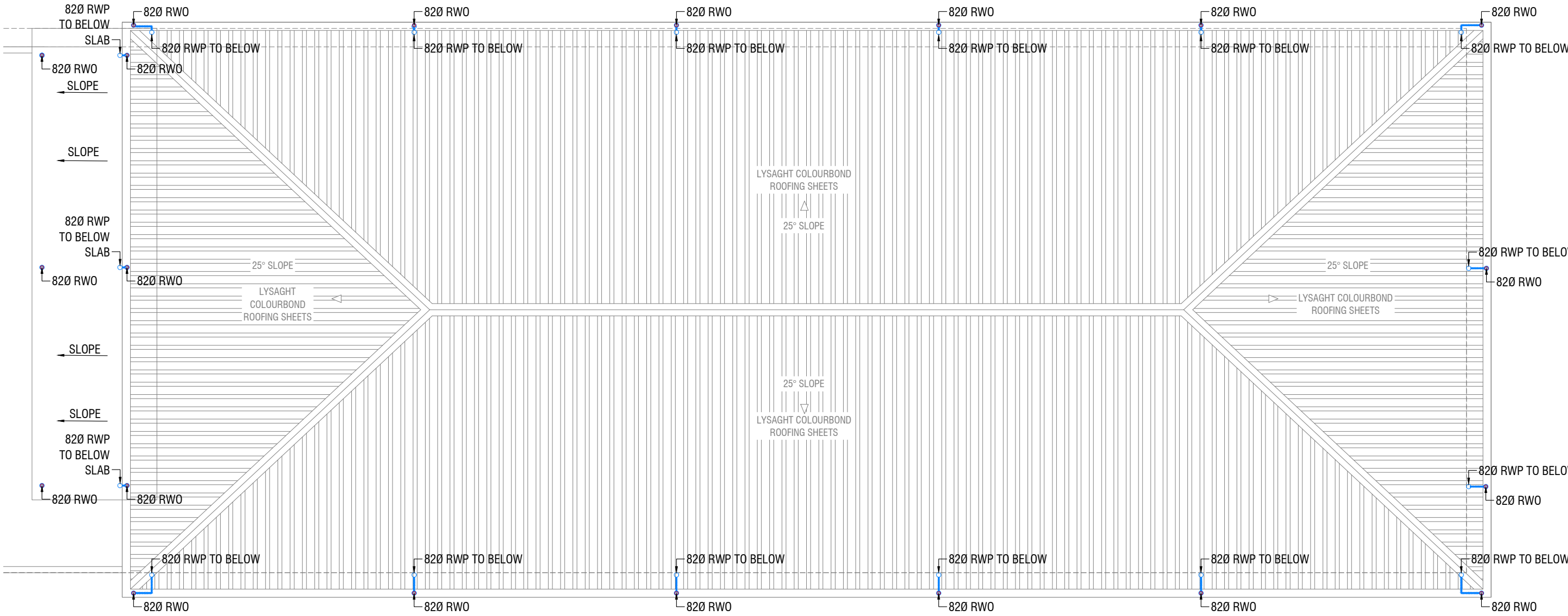
LEGEND

- FLOOR DRAIN
- FLOOR GULLY
- 1100 SOIL PIPE (CPVC PIPE)
- 820 WASTE PIPE (CPVC PIPE)
- 400 WASTE PIPE (CPVC PIPE)
- 500 WASTE PIPE (CPVC PIPE)
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- BOTTLE TRAP

NOTES: -
-ALL COLD WATER PIPES SHOULD BE CPVC

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Client: Ministry of Education

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ROOF DRAINAGE LAYOUT

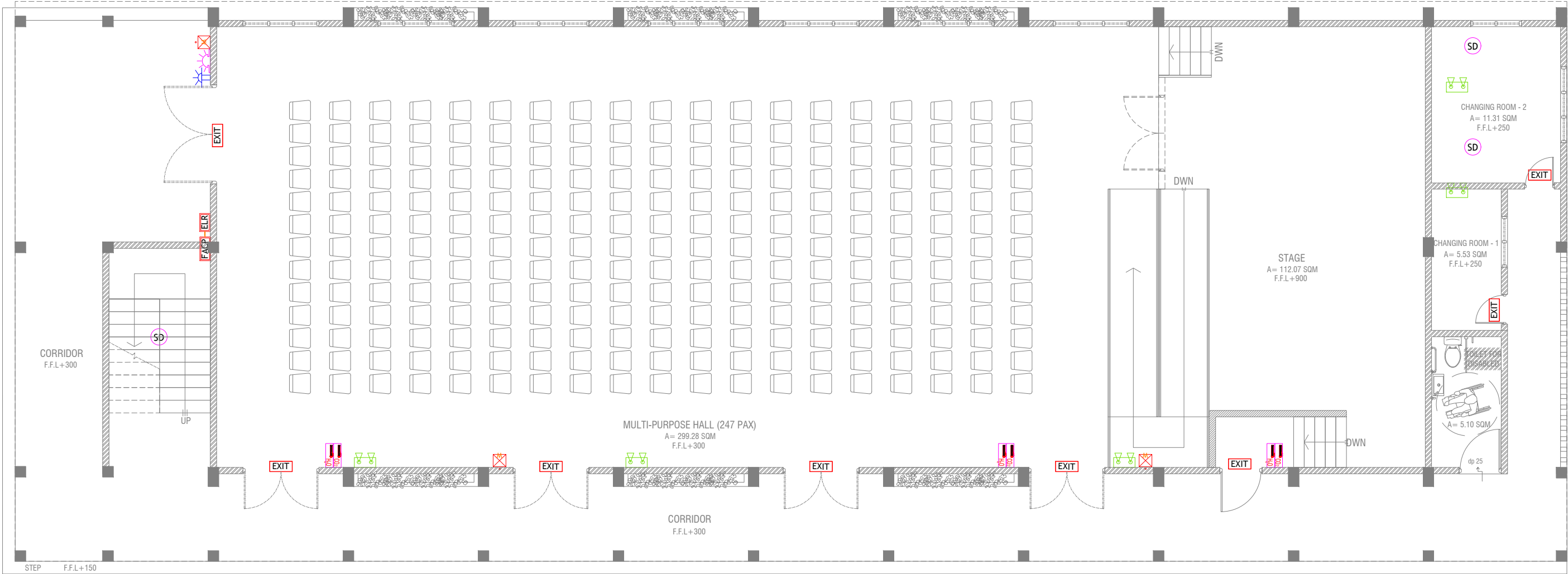


LEGEND

- 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

NOTES: -
-ALL COLD WATER PIPES SHOULD BE CPVC

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456	29/12/2020
457	30/12/2020
458	31/12/2020
459	01/01/2021
460	02/01/2021
461	03/01/2021
462	04/01/



GROUND FLOOR FDP LAYOUT

SCALE 1:100

LEGEND

SD SMOKE DETECTOR

HD HEAT DETECTOR

EXIT EXIT SIGN

EM EMERGENCY LIGHT

CO₂ CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)

WET WET CHEMICAL FIRE EXTINGUISHER (LOAD: 7.2KG)

H₂O H₂O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)

ELR END OF LINE RESISTANCE

FACP FIRE ALARM CONTROL PANEL

MANUAL MANUAL CALL POINT (RESETTABLE)

BEACON BEACON

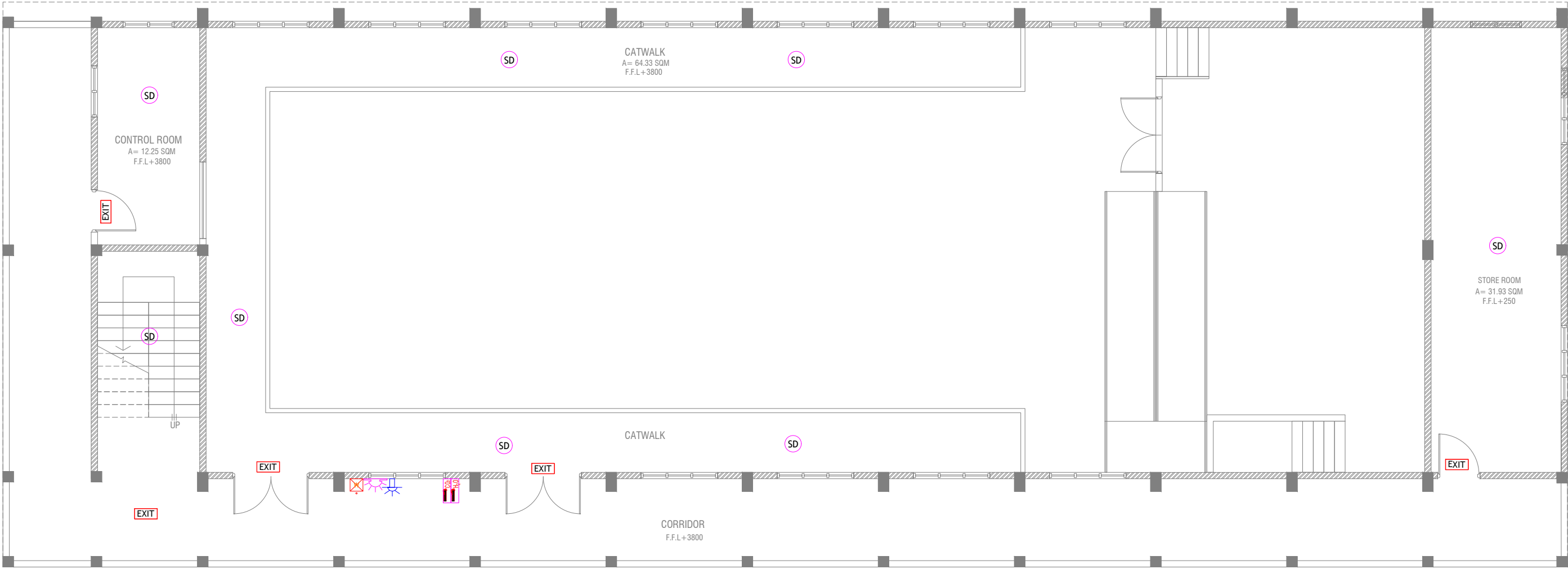
SOUNDER SOUNDER/BELL (85 DB)

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

R.Maduwaree School Hall & 08 Classroom (04 Storey)
Client: Ministry of Education
Project Number: R/2017/012
Date: October 2019
Architect: Razana Amir
Engineer: Ahmed Zuhair Zakiem
Services: Agha Ali Ahmed
Interior: -

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



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

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/BRAKCTET SHALL BE HOT DIPPED GALVANIZED TO 100KVM
4.ALL FIRE EXTINGUISHER INSIDE CABINETS, (CABINET SHOULD BE PROVIDED)

R.Maduwaree School Hall & 08 Classroom (04 Storey)

Client: Ministry of Education

Project Number: R/2017/012

Date: October 2019

Architect: Razana Amir

Engineer: Ahmed Zuhair Zakiem

Services: Agha Ali Ahmed

Interior: -



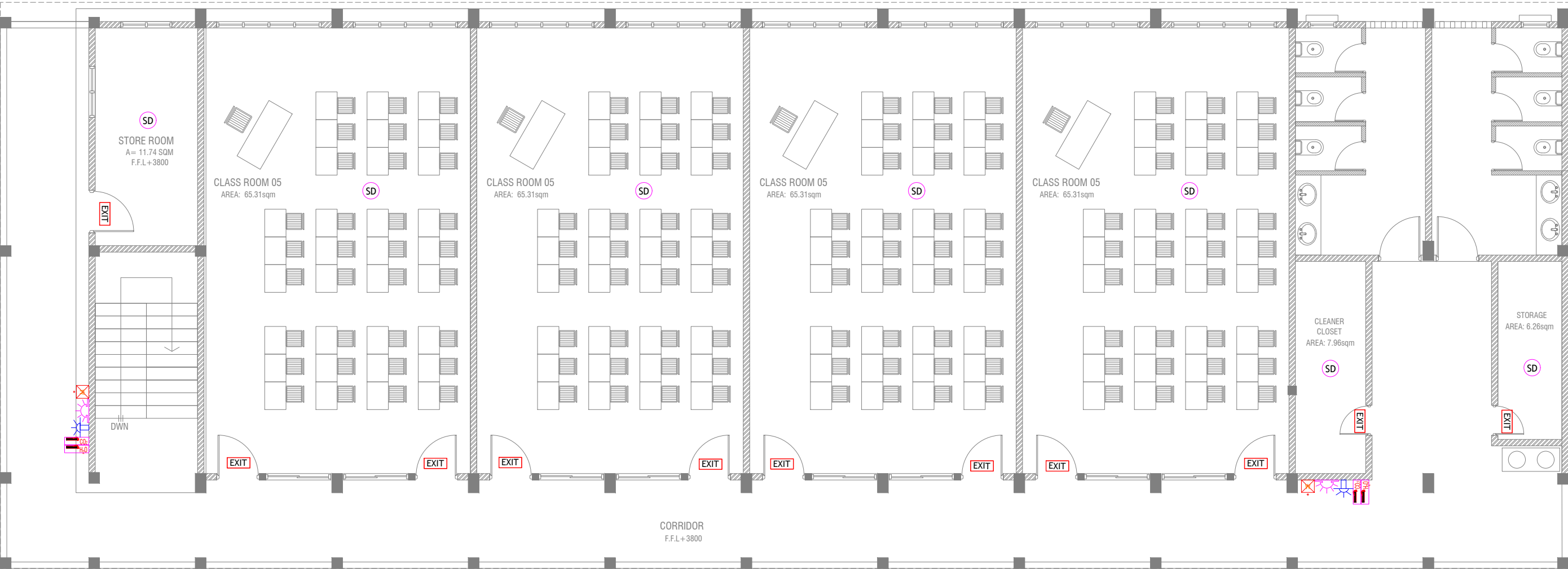
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3rd floor, H. Azam, Ammeenemogau, Male'

Title: 1st Floor FDP Layout

Page: FDP - 02/03

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SECOND & THIRD 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)

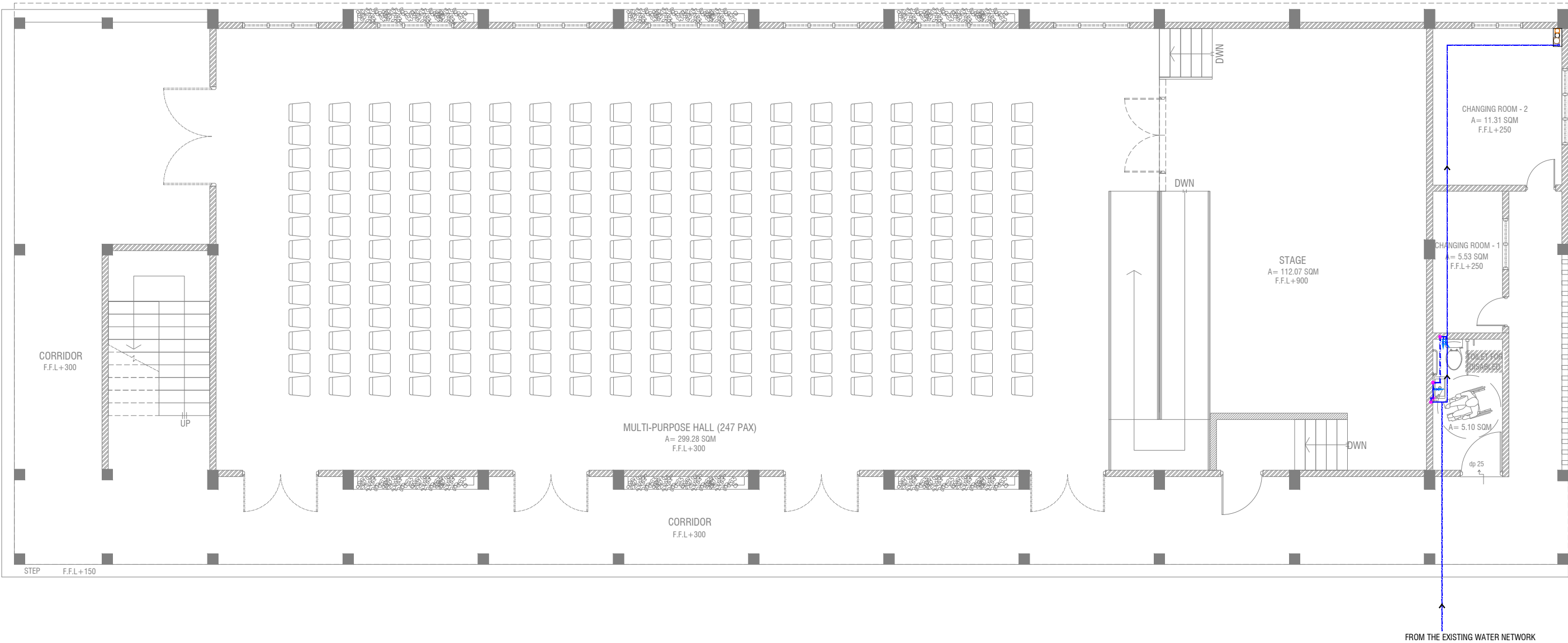
ALL FIRE RATED DOOR SHOULD COME WITH PACKING (EXPANSION SEAL TRAP)

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 100A/M

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



GROUND FLOOR PLUMBING LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

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

R.Maduwaree School Hall & 08 Classroom (04 Storey)

Client: Ministry of Education

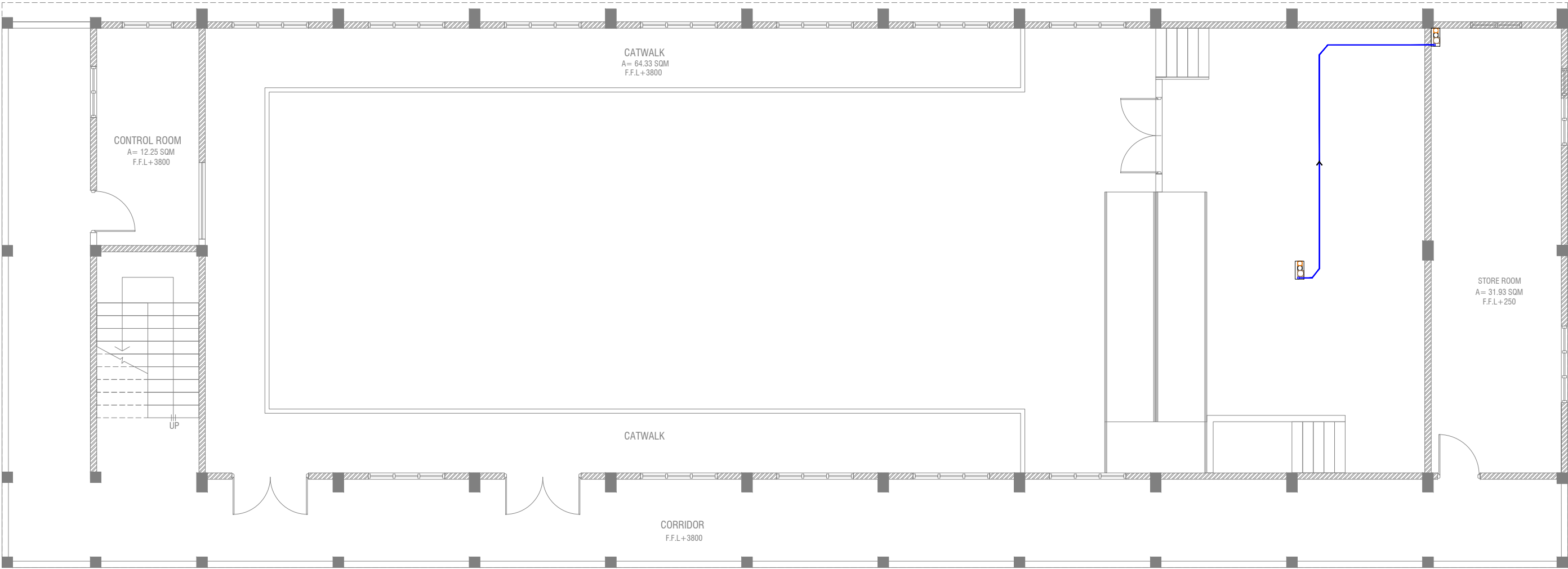
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98	2017/10/12
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100	2017/10/12



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Title: Ground Floor
Plumbing Layout
Page: PL - 01/03

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FIRST FLOOR PLUMBING LAYOUT



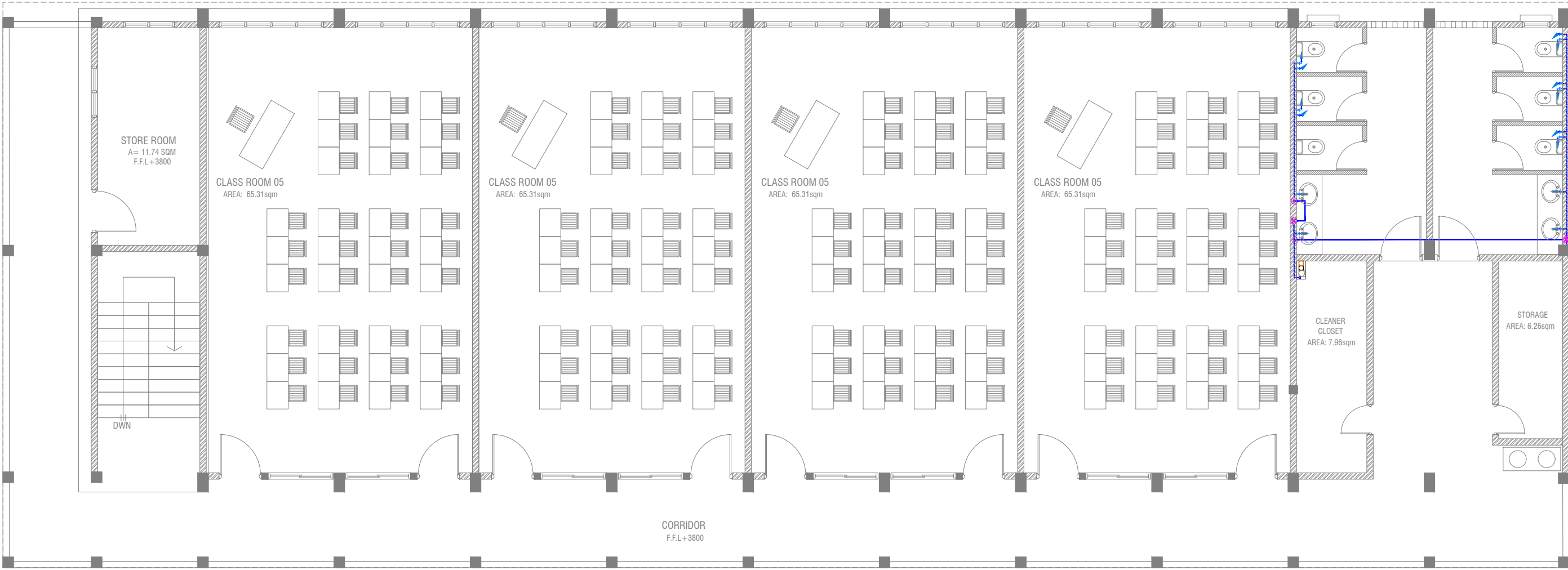
LEGEND

- 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

Rev no	Date
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Project Number: 8/2017/012
Date: October 2019
Architect: Razana Amir
Engineer: Ahmed Zuhair Zakiem
Services: Architectural
Interior :-





SECOND & THIRD 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

R.Maduwaree School Hall & 08 Classroom (04 Storey)

Client: Ministry of Education

Project Number: 8/2017/012
Date: October 2019
Architect: Razana Amir
Engineer: Ahmed Zuhair Zakiem
Services: Architectural
Interior: -

Rev no	Date
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Title: Second & Third
Plumbing Layout
Page: PL - 03/03

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