

M. Kolhufushi School Hall & 08 Classrooms
(04 Storey)

ARCHITECTURAL & STRUCTURAL DRAWINGS

Client: Ministry of Education



RIYAN PRIVATE LIMITED

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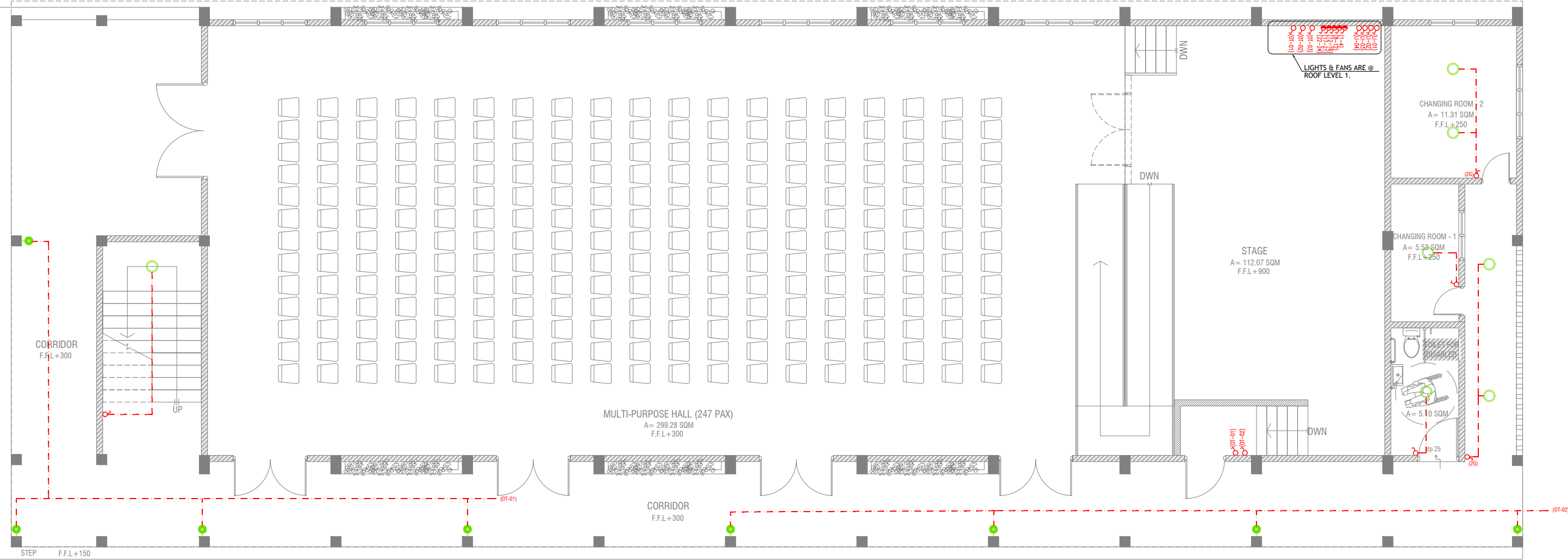
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3rd floor, H. Azum, Ameenemogu, Male

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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"

M. Kolhufushi School Hall & 08 Classroom (04 Storey)
Client: Ministry of Education

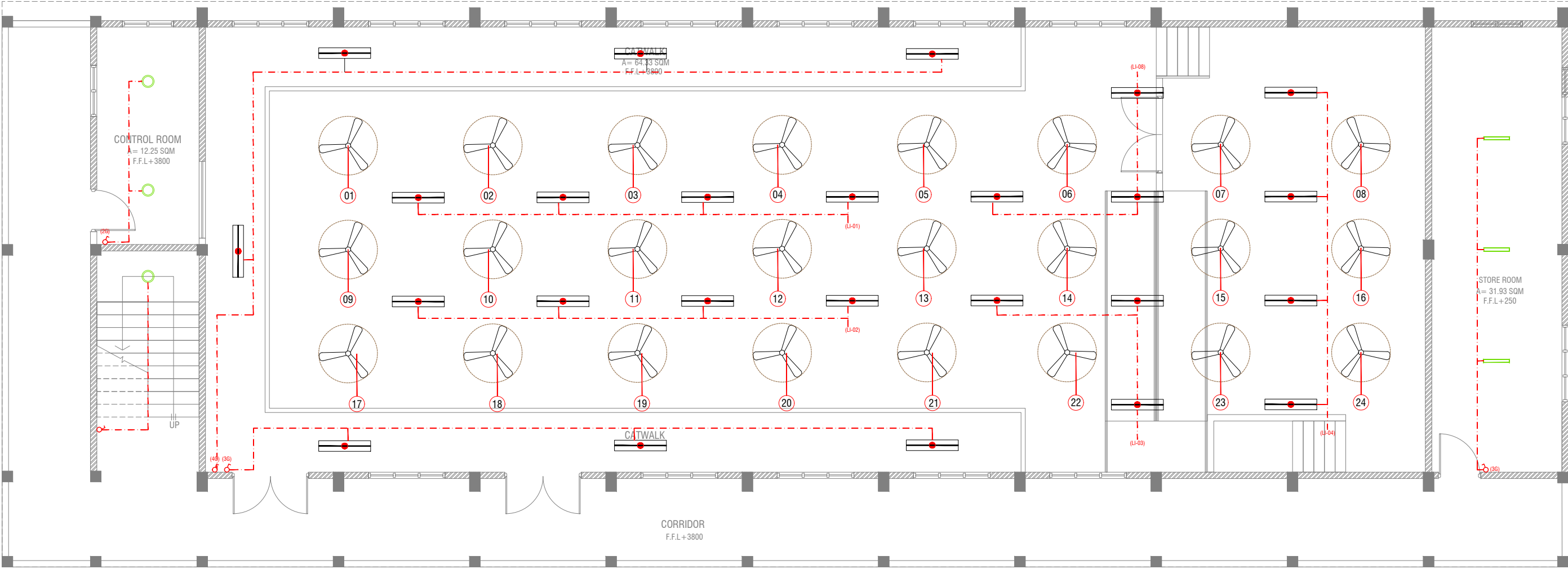
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3rd floor, H. Azam, Ammenemogga, Male'

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"

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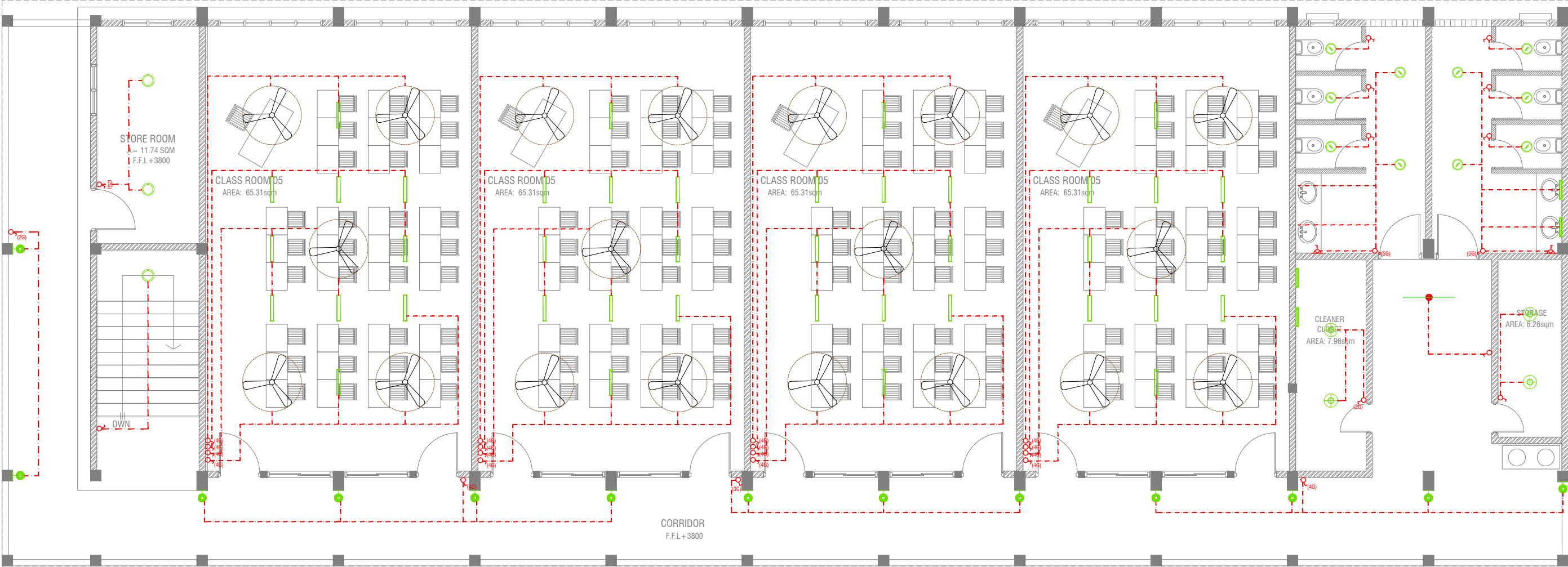
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Title: 1st Floor
Lighting Layout
Page: EL - 02/03

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SECOND & THIRD FLOOR LIGHTING LAYOUT



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

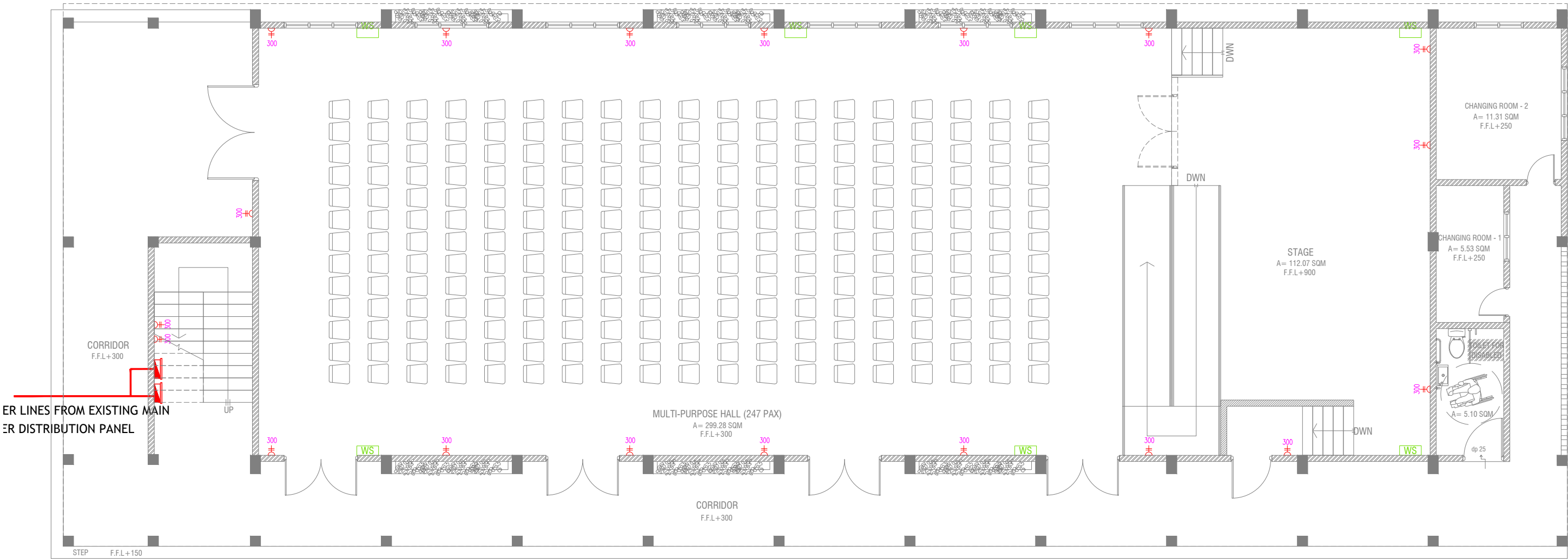
CEILING FAN (52" - 54")

NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS

- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL

-ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB



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

M. Kolhufushi School Hall & 08 Classroom (04 Storey)

Client: Ministry of Education

Project Number: 8/2017/012

Date: October 2019

Architect: Razana Amir

Engineer: Ahmed Zuhair Zaeem

Services: Electrical Engineering

Interior: -

Rev no

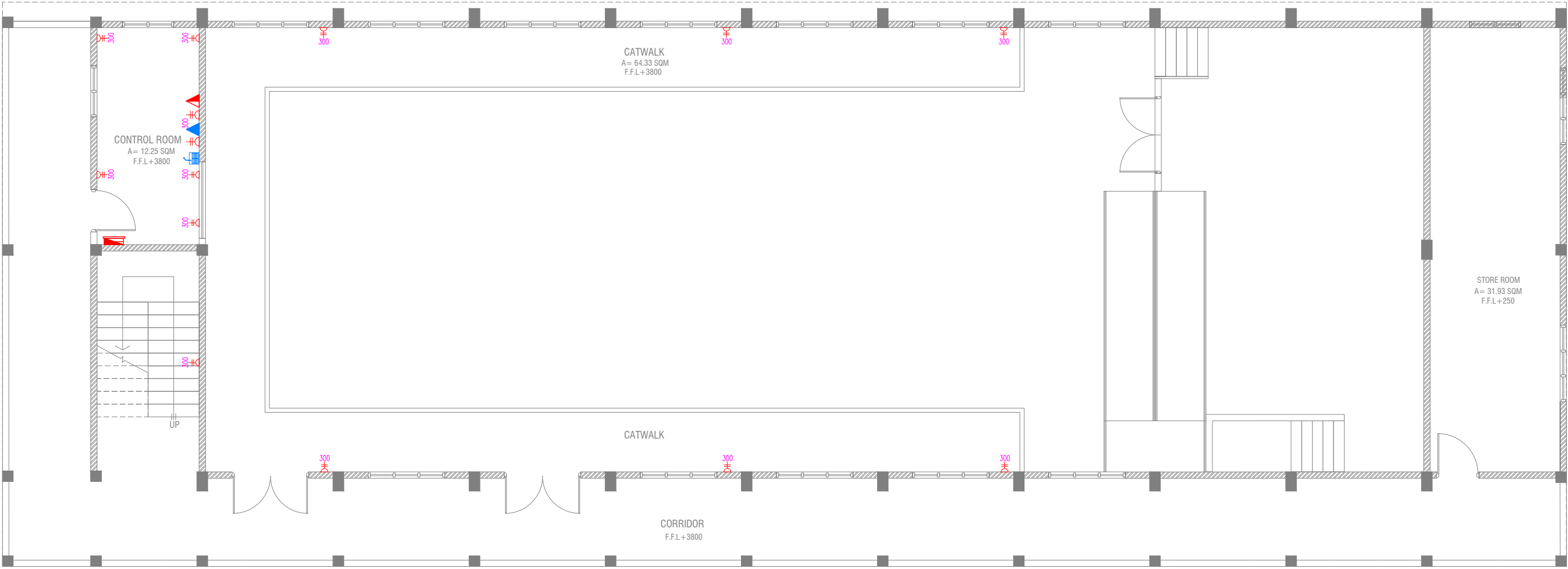
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3rd floor, H. Azum, Ammenemogau, Male'

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

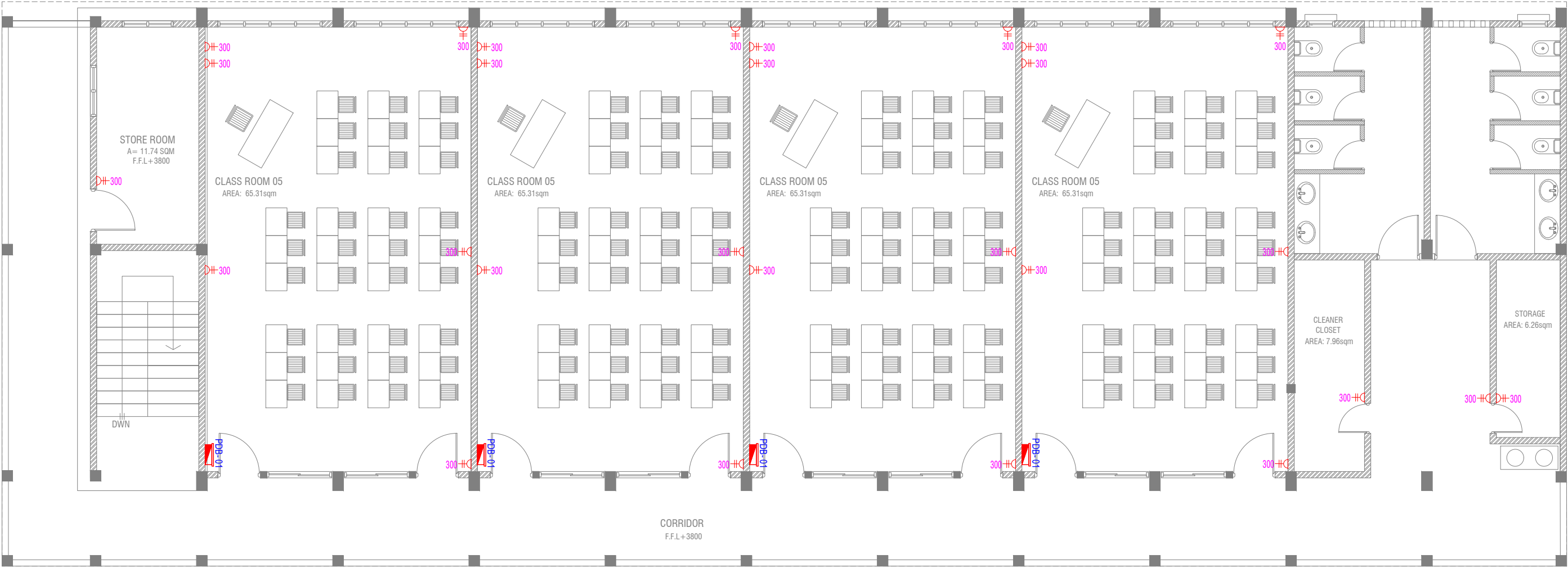
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FIRST FLOOR POWER LAYOUT



- 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



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

M. Kolhufushi 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: Electrical Engineering

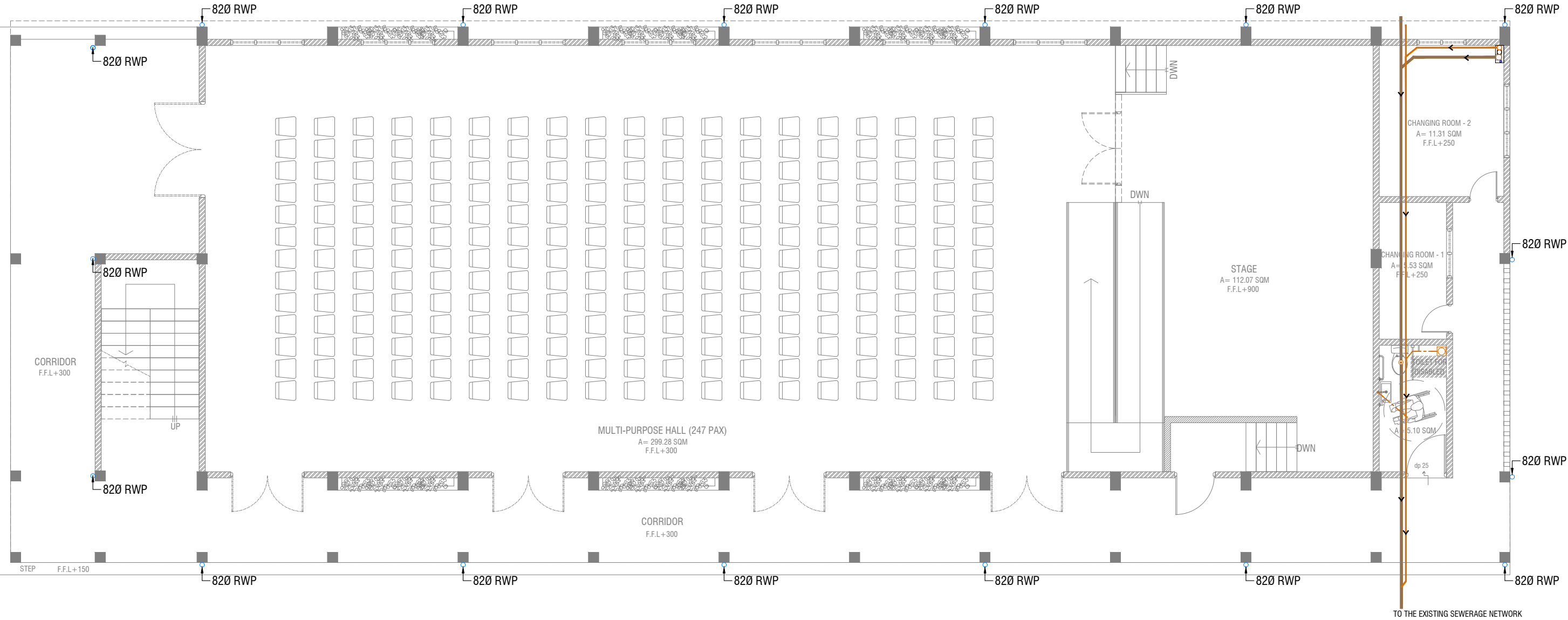
Interior: -



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Title: Second & Third Power Layout
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GROUND FLOOR DRAINAGE LAYOUT

SCALE 1:100

LEGEND

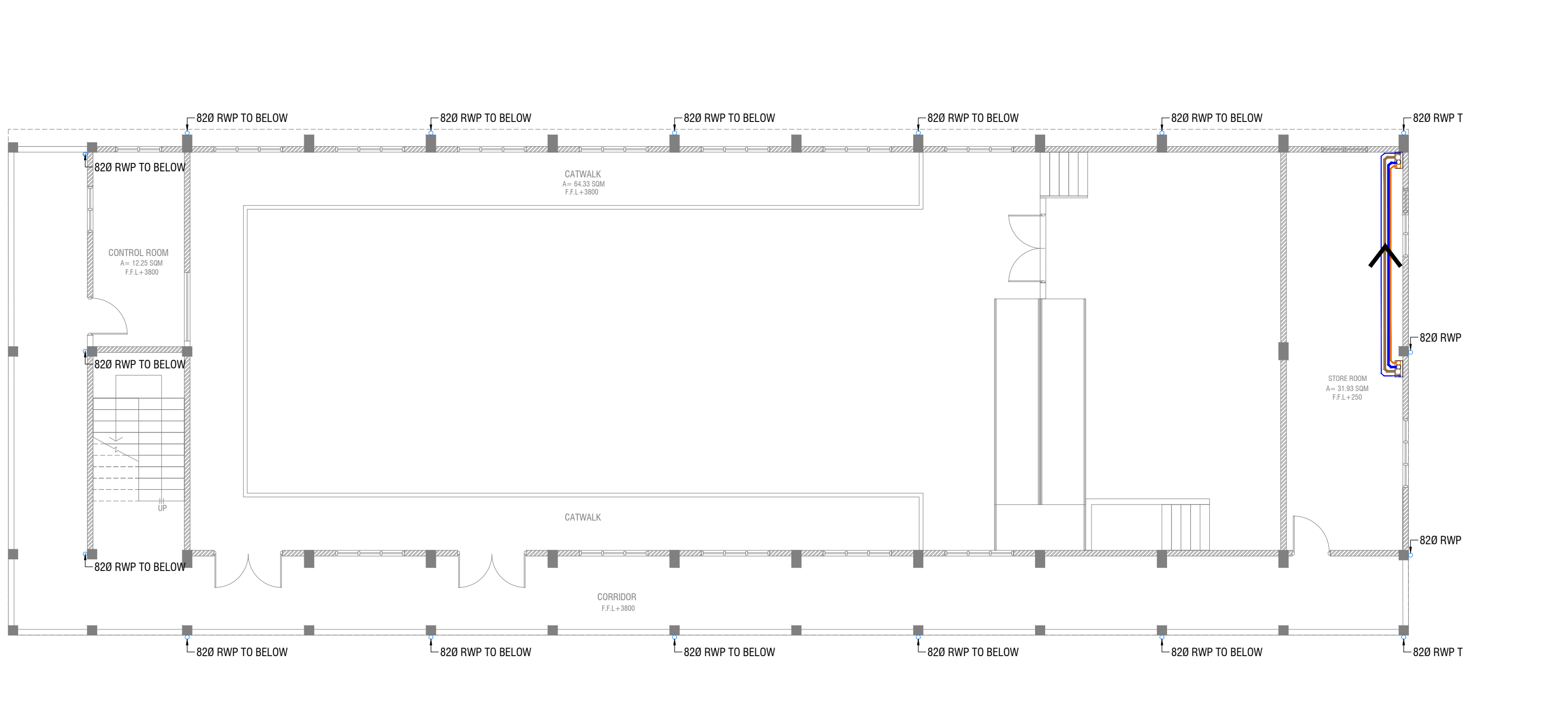
- FLOOR DRAIN
- FLOOR GULLY
- 1100 SOIL PIPE (CPVC PIPE)
- 820 WASTE PIPE (CPVC PIPE)
- 400 WASTE PIPE (CPVC PIPE)
- 500 WASTE PIPE (CPVC PIPE)
- 820 MANHOLE VENT PIPE (CPVC PIPE)
- BOTTLE TRAP

NOTES: -
-ALL COLD WATER PIPES SHOULD BE CPVC

M. Kolhufushi School Hall & 08 Classroom (04 Storey)
Client: Ministry of Education

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



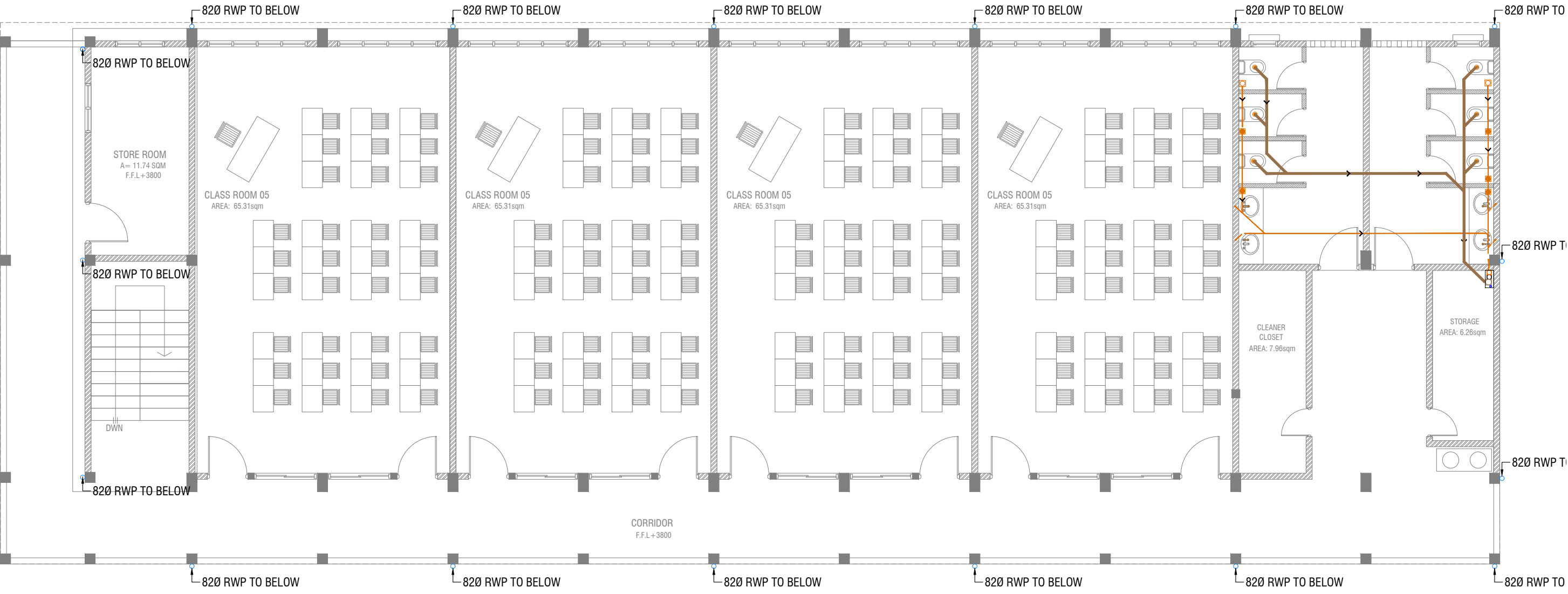
FIRST FLOOR DRAINAGE LAYOUT



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



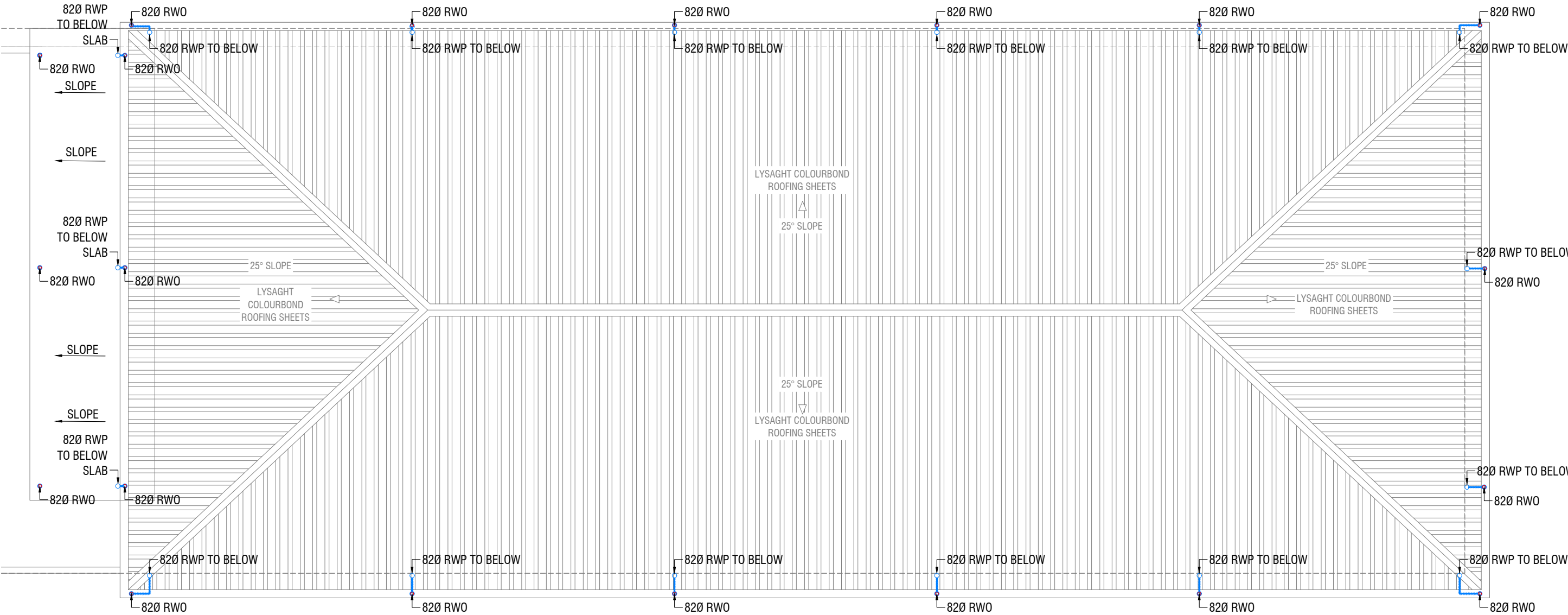
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- FLOOR DRAIN
- FLOOR GULLY
- 1100 SOIL PIPE (CPVC PIPE)
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- BOTTLE TRAP

NOTES: -
-ALL COLD WATER PIPES SHOULD BE CPVC

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ROOF DRAINAGE LAYOUT



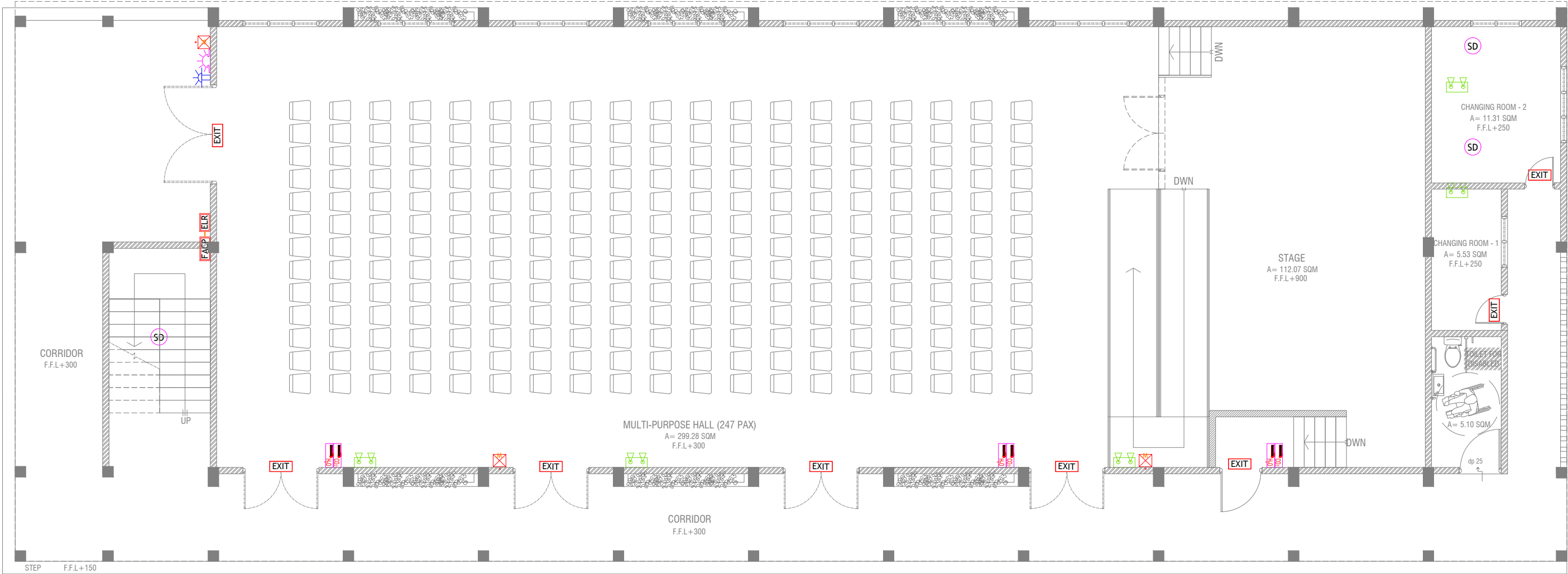
LEGEND

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

M. Kolhufushi 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, Mechanical, Electrical, Plumbing, Fire Protection, Interior :-

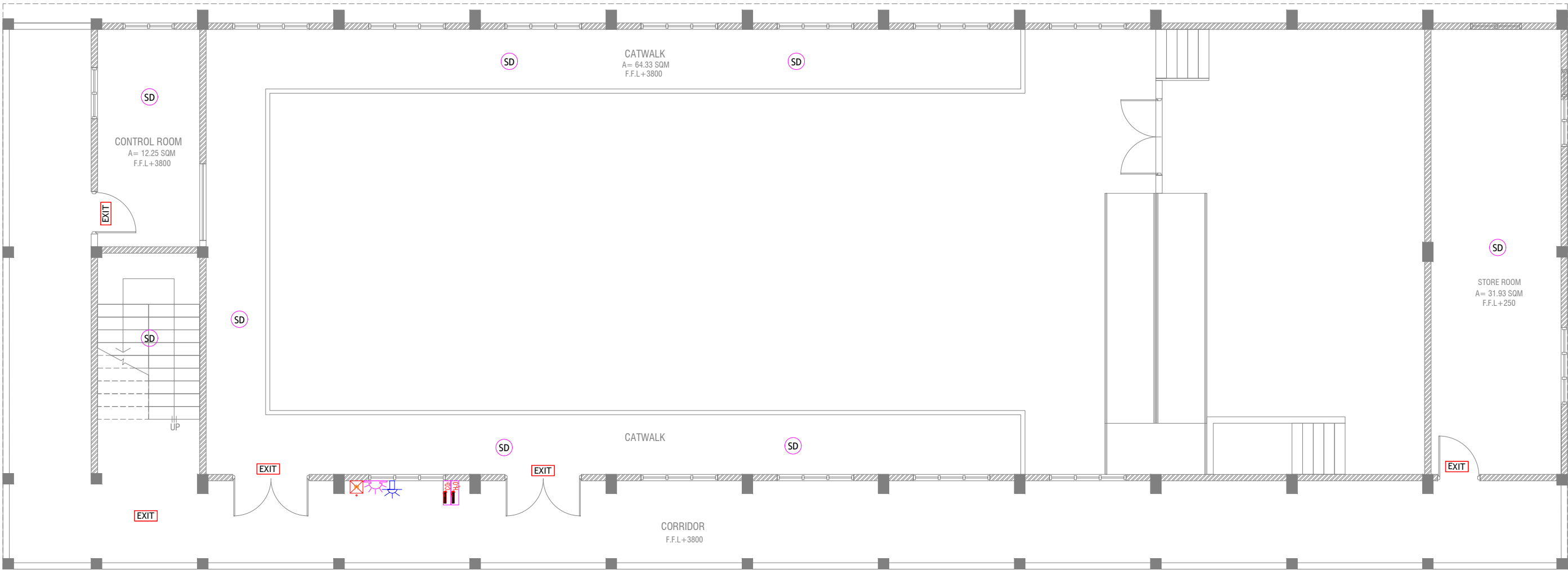
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4	2019/10/12

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

Title: Ground Floor
FDP Layout
Page#DP - 01/03

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FIRST 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/BELL** (85 DB) 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 100KVM
- 4.ALL FIRE EXTINGUISHER INSIDE CABINETS, (CABINET SHOULD BE PROVIDED)

M. Kolhufushi School Hall & 08 Classroom (04 Storey)

Client: Ministry of Education

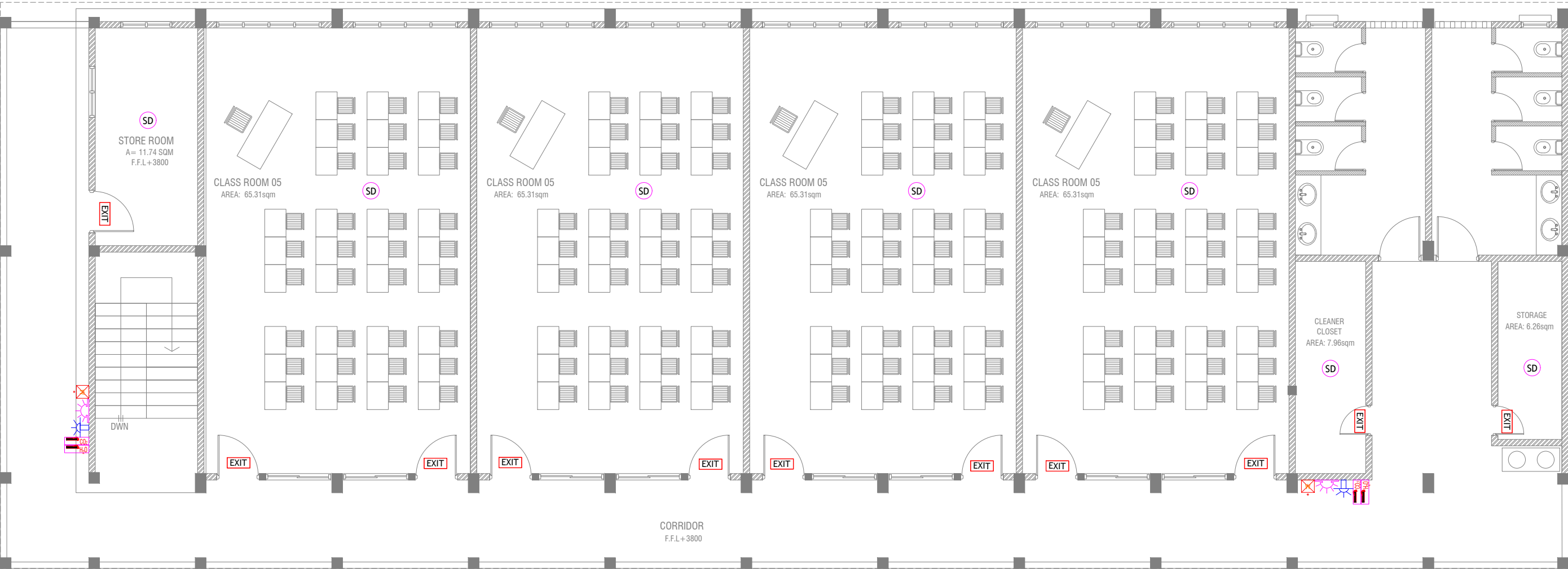
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Title: 1st Floor FDP Layout
Page: DP - 02/03

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SECOND & THIRD 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)

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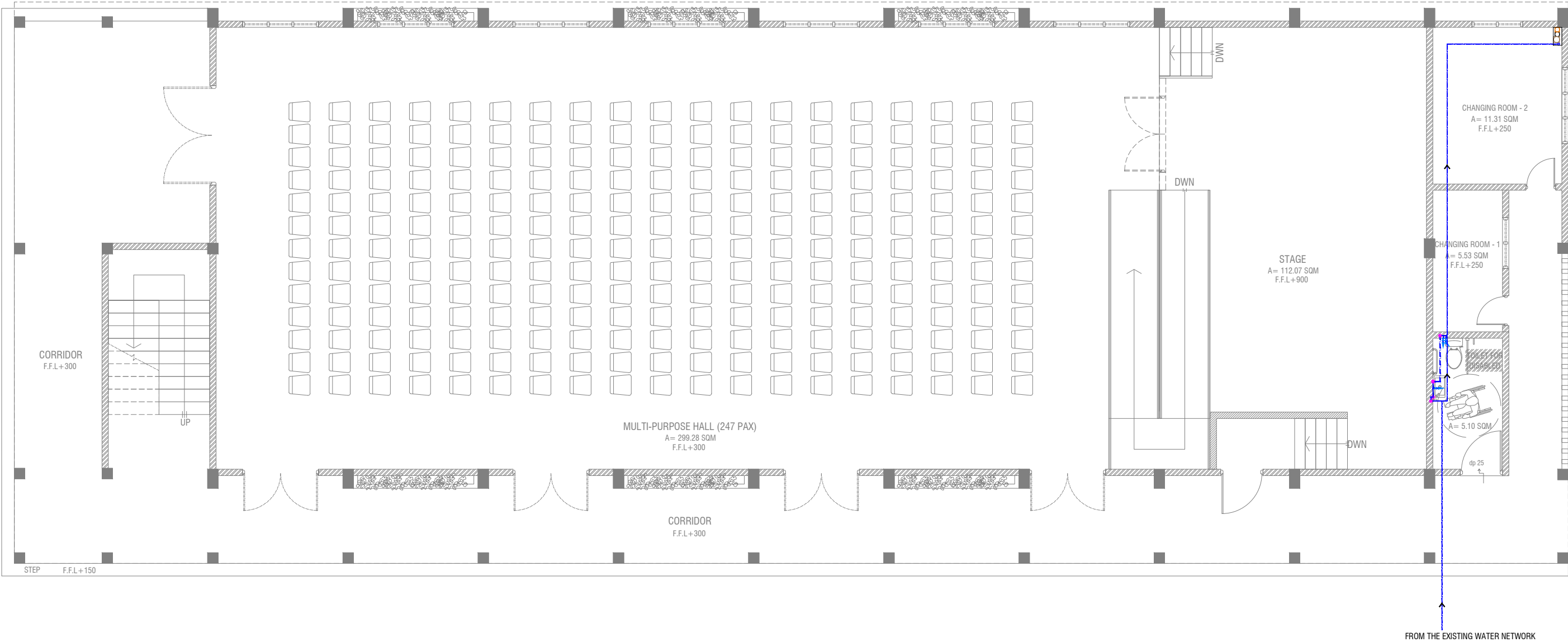
4.ALL FIRE EXTINGUISHER INSIDE CABINETS, (CABINET SHOULD BE PROVIDED)

M. Kolhufushi 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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GROUND FLOOR PLUMBING LAYOUT

SCALE 1:100



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

M. Kolhufushi School Hall & 08 Classroom (04 Storey)

Client: Ministry of Education

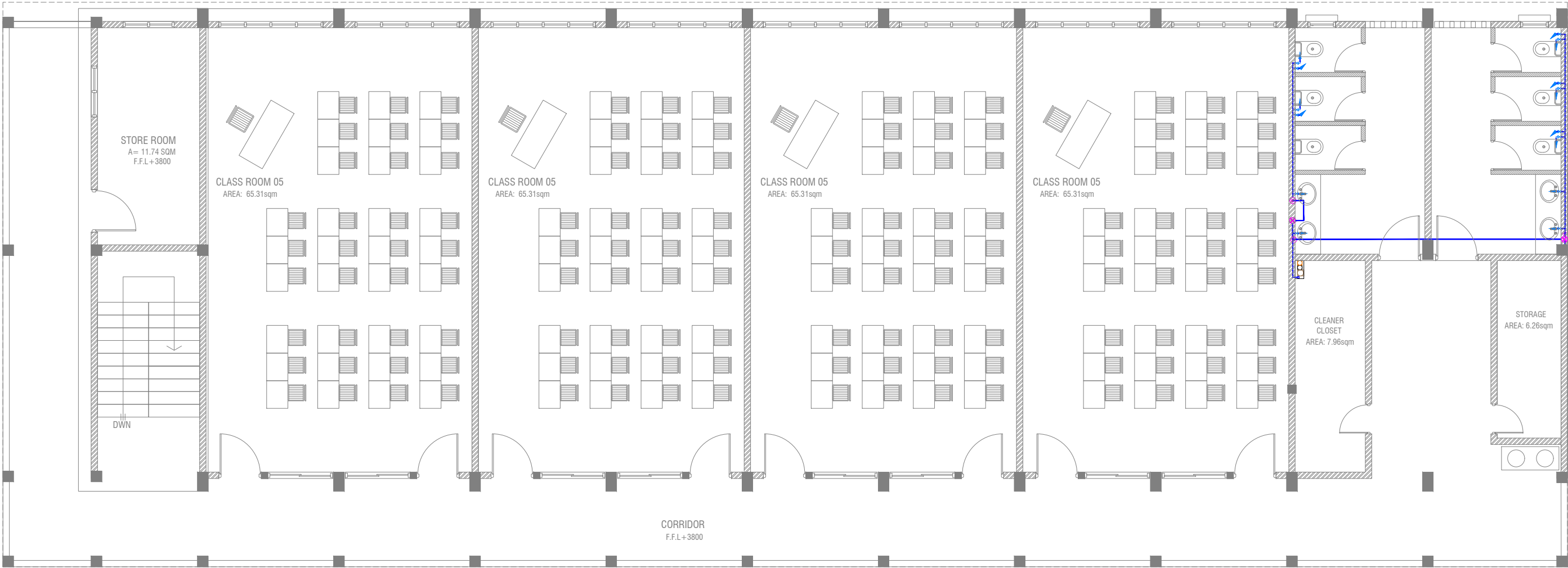
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10	01/10/2019



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

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SECOND & THIRD FLOOR PLUMBING LAYOUT

SCALE 1:100

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

M. Kolhufushi 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 : -

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Title: Second & Third
Plumbing Layout
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