



PHYSICAL FACILITIES DEVELOPMENT SECTION
MINISTRY OF EDUCATION, REPUBLIC OF MALDIVES

PROPOSED MULTIPURPOSE HALL & 6 CLASSROOMS AT AA. BODUFOLHUDHOO SCHOOL

(03 STOREY)

BUILDING SERVICES DRAWINGS

TABLE OF CONTENTS

| DRAWING No. | TITLE | REVISION No. | DATE | REMARKS |
|----------------------------------|--|--------------|------|---------|
| A R C H I T E C T U R A L | | --- | --- | --- |
| A - 01 / 27 | SITE PLAN | --- | --- | --- |
| A - 02 / 27 | GROUND FLOOR PLAN | --- | --- | --- |
| A - 03 / 27 | FIRST FLOOR PLAN | --- | --- | --- |
| A - 04 / 27 | SECOND FLOOR PLAN | --- | --- | --- |
| A - 05 / 27 | ROOF PLAN - 2 | --- | --- | --- |
| A - 06 / 27 | SECTION Y-Y | --- | --- | --- |
| A - 07 / 27 | ELEVATION - A & B | --- | --- | --- |
| A - 08 / 27 | DOOR & WINDOW SCHEDULE - 1 | --- | --- | --- |
| A - 09 / 27 | DOOR & WINDOW SCHEDULE - 2 | --- | --- | --- |
| A - 10 / 27 | DOOR & WINDOW SCHEDULE - 3 & VENTILATION SCHEDULE | --- | --- | --- |
| A - 11 / 27 | GROUND FLOOR REFLECTED CEILING PLAN | --- | --- | --- |
| A - 12 / 27 | FIRST FLOOR REFLECTED CEILING PLAN | --- | --- | --- |
| A - 13 / 27 | SECOND FLOOR REFLECTED CEILING PLAN | --- | --- | --- |
| A - 14 / 27 | GROUND FLOOR FLOOR FINISHES PLAN | --- | --- | --- |
| A - 15 / 27 | FIRST FLOOR FLOOR FINISHES PLAN | --- | --- | --- |
| A - 16 / 27 | SECOND FLOOR FLOOR FINISHES PLAN | --- | --- | --- |
| A - 17 / 27 | DETAIL - 1: PLANTER BOX DETAILS | --- | --- | --- |
| A - 18 / 27 | DETAIL - 2 :RC FINS DETAILS | --- | --- | --- |
| A - 19 / 27 | DETAIL - 3 & 4:TOILET DETAILS | --- | --- | --- |
| A - 20 / 27 | DETAIL - 5 & 6:RAMPS DETAIL | --- | --- | --- |
| A - 21 / 27 | DETAIL - 07 - STAGE DETAILS | --- | --- | --- |
| A - 22 / 27 | DETAIL - 07 - STAGE DETAILS | --- | --- | --- |
| A - 23 / 27 | DETAIL - 08 MAIN STAIRCASE DETAILS | --- | --- | --- |
| A - 24 / 27 | DETAIL - 09 BALCONY RAILING DTAIL | --- | --- | --- |
| A - 25 / 27 | DETAIL - 10 RC FINS DETAIL @ SECOND FLOOR TOILET | --- | --- | --- |
| A - 26 / 27 | DETAIL - 11 RC WALL DETAILS | --- | --- | --- |
| A - 27 / 27 | DETAIL - 12 NAME BOARD DETAILS | --- | --- | --- |
| S T R U C T U R A L | | --- | --- | --- |
| S - 01 / 21 | GENERAL NOTES PAGE | --- | --- | --- |
| S - 02 / 21 | GENERAL NOTES PAGE | --- | --- | --- |
| S - 03 / 21 | GENERAL NOTES PAGE | --- | --- | --- |
| S - 04 / 21 | GROUND FLOOR COLUMN LAYOUT PLAN | --- | --- | --- |
| S - 05 / 21 | FIRST FLOOR COLUMN LAYOUT PLAN | --- | --- | --- |
| S - 06 / 21 | SECOND FLOOR COLUMN LAYOUT PLAN | --- | --- | --- |
| S - 07 / 21 | ROOF - 2 LEVEL COLUMN LAYOUT PLAN | --- | --- | --- |
| S - 08 / 21 | FOUNDATION PLAN | --- | --- | --- |
| S - 09 / 21 | FIRST FLOOR BEAM PLAN | --- | --- | --- |
| S - 10 / 21 | FIRST FLOOR SLAB REINFORCEMENT PLAN | --- | --- | --- |
| S - 11 / 21 | LOWER ROOF FRAMING PLAN | --- | --- | --- |
| S - 12 / 21 | SECOND FLOOR BEAM PLAN | --- | --- | --- |
| S - 13 / 21 | SECOND FLOOR SLAB REINFORCEMENT PLAN | --- | --- | --- |
| S - 14 / 21 | ROOF BEAM LEVEL - 1 & SLAB REINFORCEMENT PLAN (+10300) | --- | --- | --- |
| S - 15 / 21 | ROOF BEAM LEVEL - 2 (+11200) | --- | --- | --- |
| S - 16 / 21 | ROOF LEVEL - 2 TRUSS AND FRAMING PLAN | --- | --- | --- |
| S - 17 / 21 | ROOF TRUSS DETAILS | --- | --- | --- |
| S - 18 / 21 | STRUCTURAL DETAILS - 1 | --- | --- | --- |
| S - 19 / 21 | STRUCTURAL DETAILS - 2 | --- | --- | --- |
| S - 20 / 21 | STRUCTURAL DETAILS - 3 | --- | --- | --- |
| S - 21 / 21 | STRUCTURAL DETAILS - 4 | --- | --- | --- |



PHYSICAL FACILITIES DEVELOPMENT SECTION
MINISTRY OF EDUCATION, REPUBLIC OF MALDIVES

PROPOSED MULTIPURPOSE HALL & 6 CLASSROOMS AT AA. BODUFOLHUDHOO SCHOOL


(03 STOREY)

BUILDING SERVICES DRAWINGS

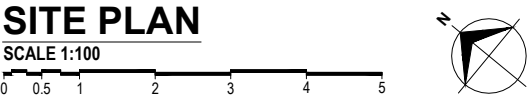
TABLE OF CONTENTS


| DRAWING No. | TITLE | REVISION No. | DATE | REMARKS |
|------------------|---|--------------|------|---------|
| S E R V I C E S | | --- | --- | --- |
| EL - 01 / 03 | GROUND FLOOR LIGHTING LAYOUT | --- | --- | --- |
| EL - 02 / 03 | 1ST FLOOR LIGHTING LAYOUT | --- | --- | --- |
| EL - 03 / 03 | 2nd FLOOR LIGHTING LAYOUT | --- | --- | --- |
| EP - 01 / 03 | GROUND FLOOR POWER LAYOUT | --- | --- | --- |
| EP - 02 / 03 | 1ST FLOOR POWER LAYOUT | --- | --- | --- |
| EP - 03 / 03 | 2nd FLOOR POWER LAYOUT | --- | --- | --- |
| DR - 01 /05 | GROUND FLOOR PLUMBING & DRAINAGE LAYOUT | --- | --- | --- |
| DR - 02 /05 | 1ST FLOOR DRAINAGE LAYOUT | --- | --- | --- |
| DR - 03 /05 | 2nd FLOOR DRAINAGE LAYOUT | --- | --- | --- |
| DR - 04 /05 | ROOF PLAN -1 DRAINAGE LAYOUT | --- | --- | --- |
| DR - 05 /05 | ROOF PLAN -2 DRAINAGE LAYOUT | --- | --- | --- |
| FDP - 01 / 03 | GROUND FLOOR FDP LAYOUT | --- | --- | --- |
| FDP - 02 / 03 | 1ST FLOOR FDP LAYOUT | --- | --- | --- |
| FDP - 03 / 03 | 2nd FLOOR FDP LAYOUT | --- | --- | --- |
| ACV - 01 / 01 | GROUND FLOOR ACV LAYOUT | --- | --- | --- |
| DETAIL - 01 / 01 | GROUND WATER WELL DETAIL | --- | --- | --- |
| | | | | |

NOTE:

 PROPOSED BUILDING LOCATION

- TREES AND EXISTING BUILDING AT THE EXISTING SITE NEED TO BE DEMOLISHED AS PER THE SCHOOL. (TO BE CONFIRMED ON SITE)





PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

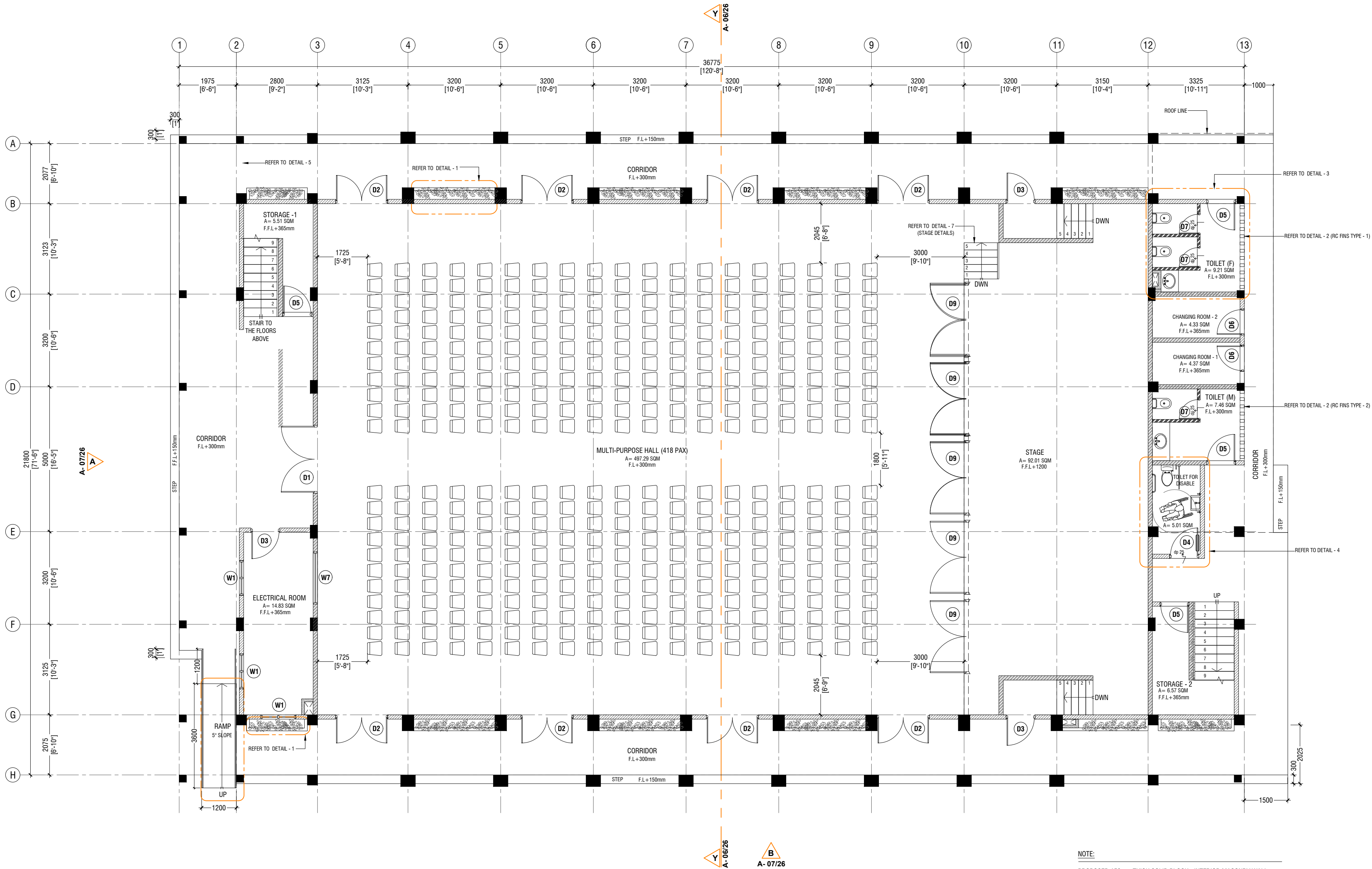
PROJECT :
**PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL**

PROJ. REF: _____
SCALE : AS GIVEN

ARCHITECT : _____
ENGINEER : _____
DRAWN : _____
CHECKED : _____
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO :A01 - 69



GROUND FLOOR PLAN

SCALE 1:100

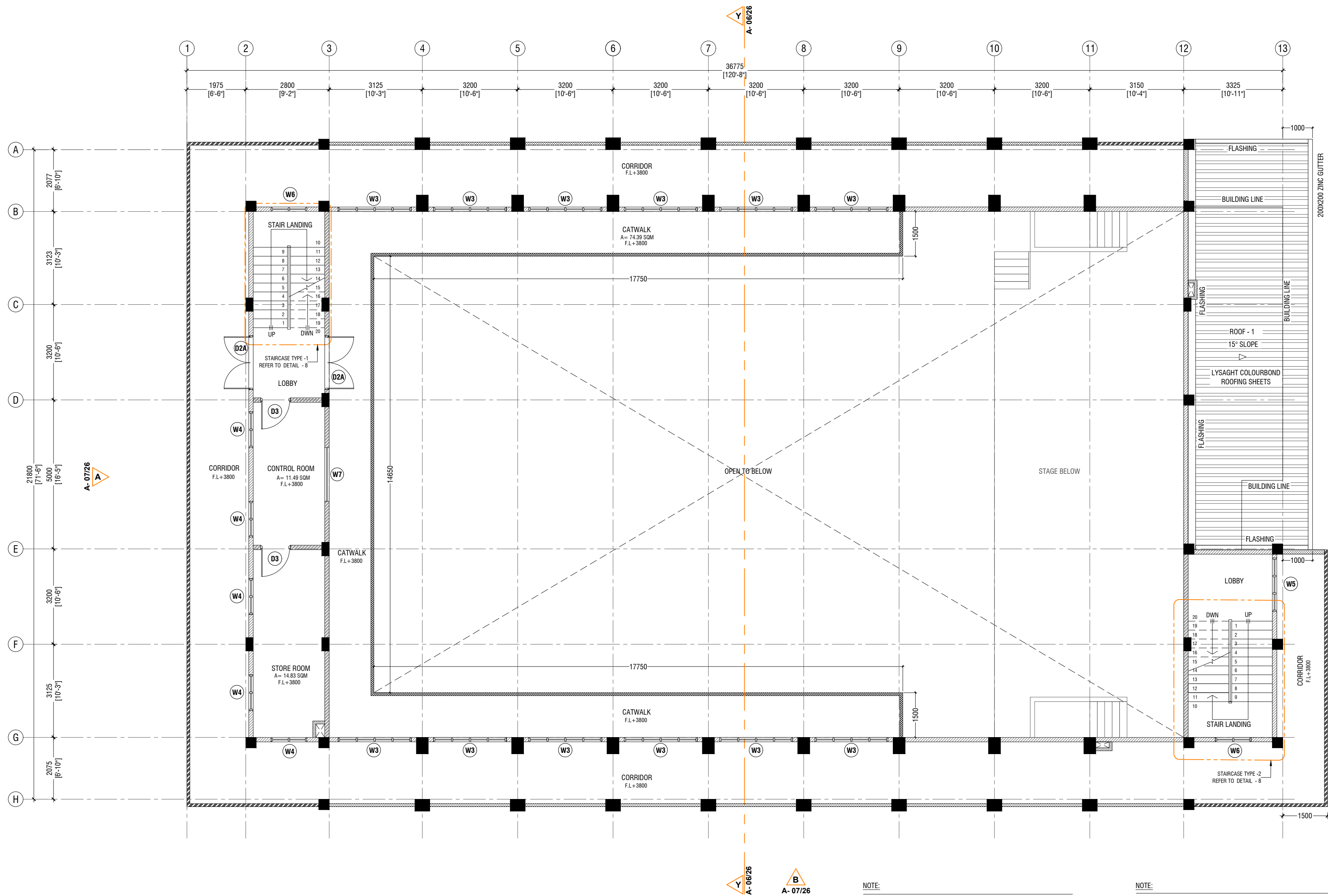


NOTE:

- PROPOSED 150mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 150mm THICK SOLID BLOCK - EXTERIOR MASONRY WALL WITH 20mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 100mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 100mm THICK 2400mm HIGH SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH

- T- FL : FLOOR LEVEL
- FFL: FLOOR FINISH LEVEL (SCREEDING INCORPORATED IN THE VALUES)
- REFER TO DOOR/WINDOW SCHEDULE, TO IDENTIFY THE AREAS - THAT HAVE LEDGE BELOW THE DOORS.
- REFER TO THE FLOOR FINISHES PLAN TO IDENTIFY THE LEVEL DIFFERENCES WHEN SCREEDING IS INCORPORATED.
- PROVIDE A DROP AT THE AREAS MARKED.
- REFER TO ARCHITECT FOR FURTHER ASSISTANCE.

| | | |
|--|------|-------------|
| | | |
| PROJECT : PROPOSED MULTIPURPOSE HALL & 6 CLASSROOM AT AA. BODUFOLHADHOO SCHOOL | | |
| PROJ. REF : SCALE : AS GIVEN | | |
| ARCHITECT : ENGINEER : DRAWN : CHECKED : DATE : 05.03.2023 | | |
| AMMENDMENTS | | |
| Issue | Date | Description |
| | | |
| DWG NO :A02 - 69 | | |




FIRST FLOOR PLAN
SCALE 1:100



- NOTE:**
- PROPOSED 150mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
 - PROPOSED 150mm THICK SOLID BLOCK - EXTERIOR MASONRY WALL WITH 20mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
 - PROPOSED 100mm THICK, 1200mm HIGH SOLID BLOCK - INTERIOR RC WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
 - PROPOSED 100mm THICK, 1200mm HIGH SOLID BLOCK - EXTERIOR RC WALL WITH 20mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
 - PROPOSED 100mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH

THE SCREEDING AND TILES ARE INCORPORATED IN THE FLOOR FINISH LEVELS
REFER TO ARCHITECT FOR FURTHER ASSISTANCE.

- NOTE:**
- ROOF - 1 SLOPE : 15° SLOPE
 - ROOF - 1 MATERIAL : LYSAGHT COLOURBOND ROOFING SHEETS
 - PROPOSED 150mm THICK, 1200mm HIGH SOLID BLOCK - EXTERIOR MASONRY WALL WITH 20mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

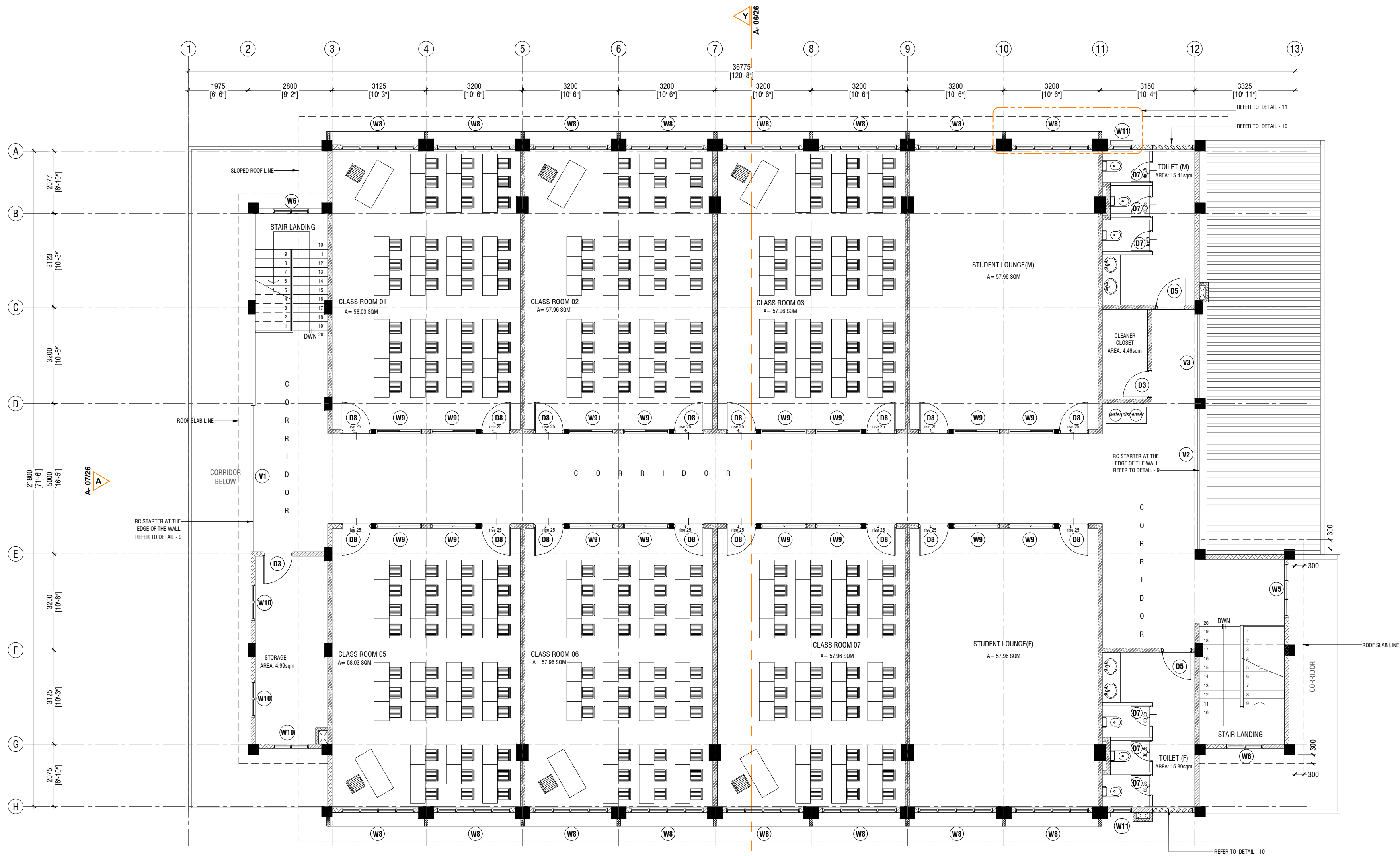
PROJECT :
**PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL**

PROJ. REF :
SCALE : AS GIVEN

ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |

DWG NO :A03 - 69




SECOND FLOOR PLAN

SCALE 1:100



- NOTE:
- PROPOSED 150mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
 - PROPOSED 150mm THICK SOLID BLOCK - EXTERIOR MASONRY WALL WITH 20mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
 - PROPOSED 100mm THICK, 1200mm HIGH SOLID BLOCK - INTERIOR RC WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
 - PROPOSED 100mm THICK, 1200mm HIGH SOLID BLOCK - EXTERIOR RC WALL WITH 20mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
 - PROPOSED 100mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- THE SCREEDING AND TILES ARE INCORPORATED IN THE FLOOR FINISH LEVELS
- REFER TO ARCHITECT FOR FURTHER ASSISTANCE.



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

PROJECT :

PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF:

SCALE : AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

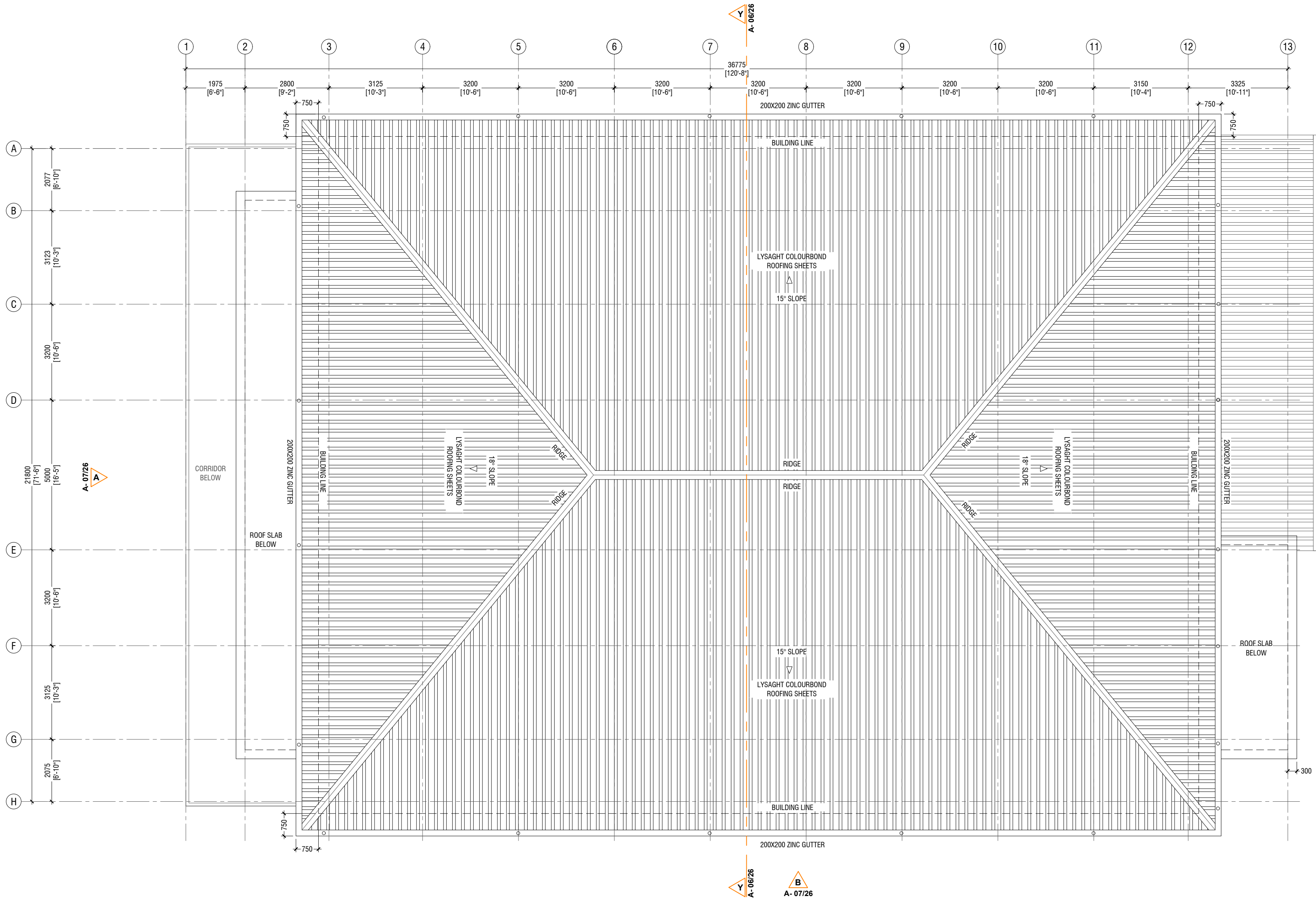
CHECKED :

DATE : 05.03.2023

AMMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |
| | | |

DWG NO :A04 - 69



ROOF PLAN - 2

SCALE 1:100



NOTE:

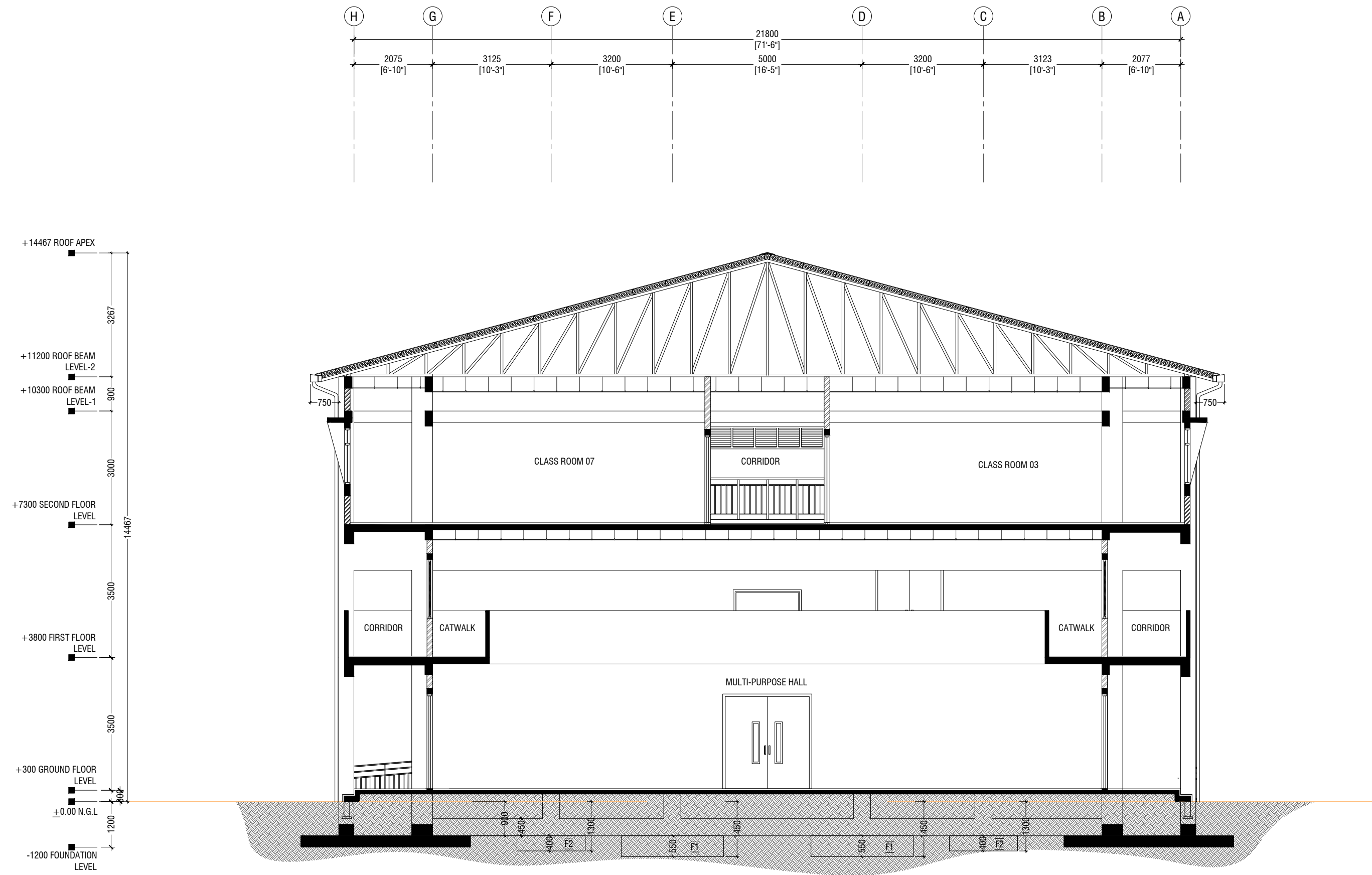
ROOF - 2 SLOPE : 15° SLOPE
ROOF - 2 MATERIAL : LYSAGHT COLOURBOND ROOFING SHEETS
ROOF - 2 OVERHANG : 750mm FROM THE BUILDING



PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMENDMENTS | | |
|------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |



SECTION Y-Y

SCALE 1:100

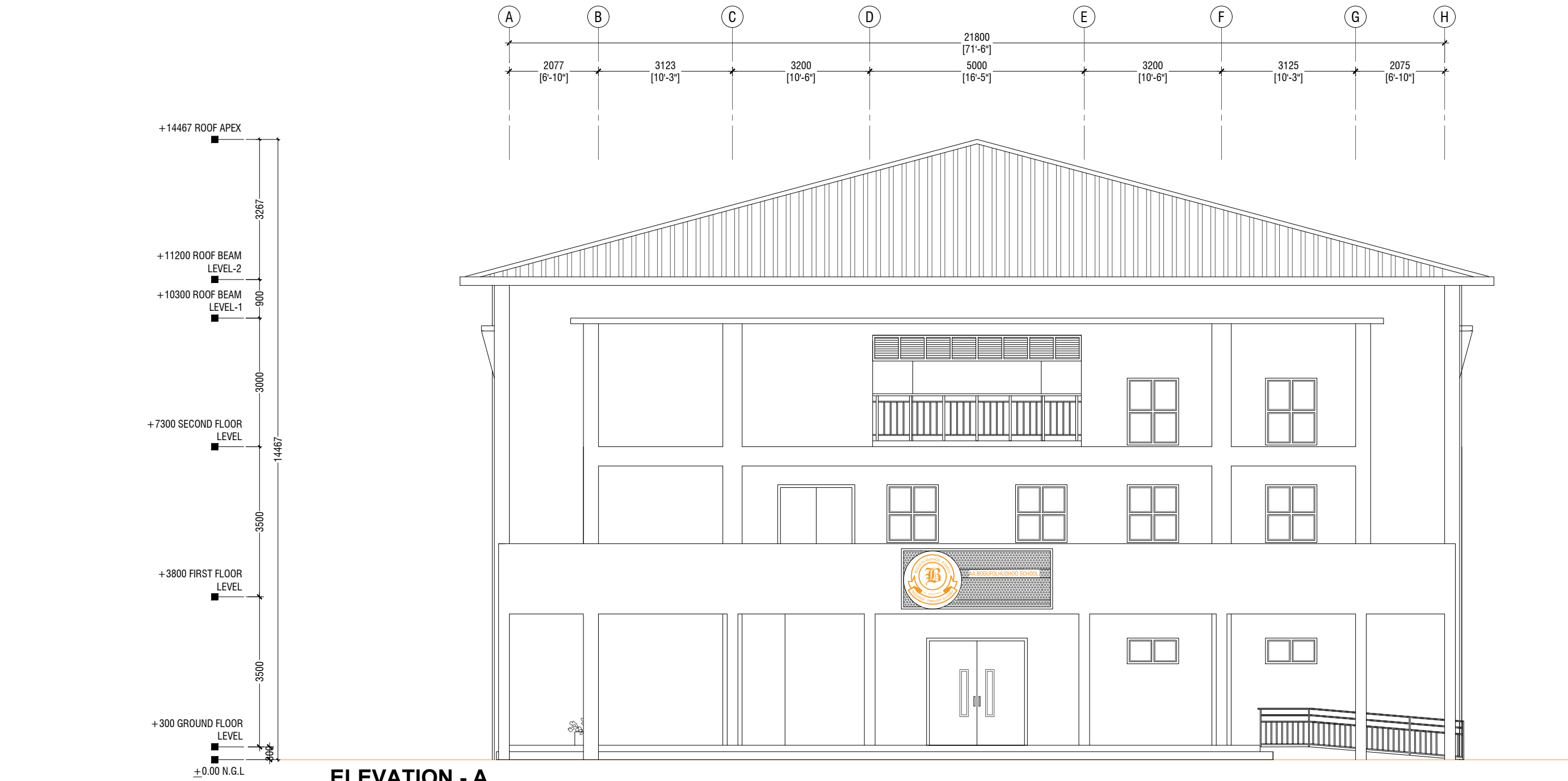
0 0.5 1 2 3 4 5



PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

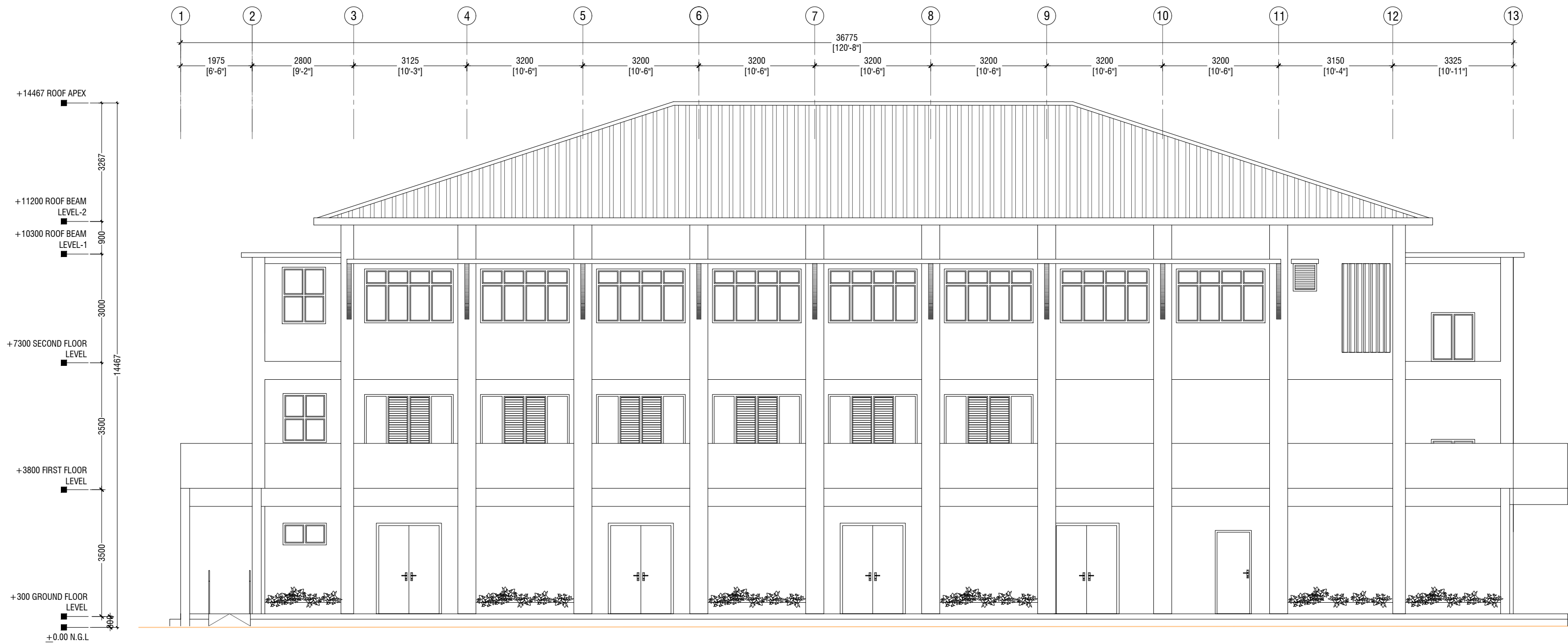
PROJ. REF: _____
SCALE : AS GIVEN
ARCHITECT : _____
ENGINEER : _____
DRAWN : _____
CHECKED : _____
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |



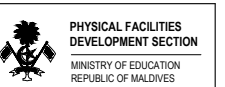
ELEVATION - A

SCALE 1:100



ELEVATION - B

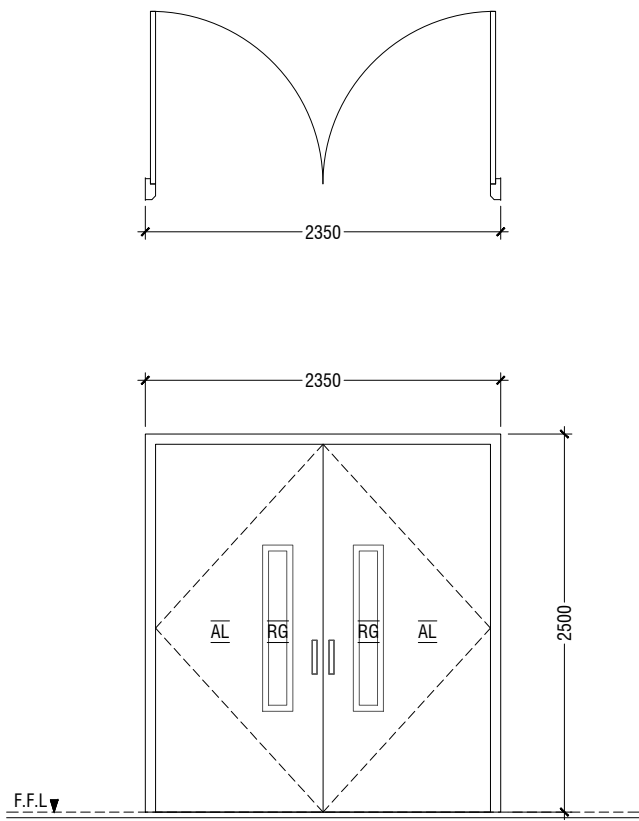
SCALE 1:100



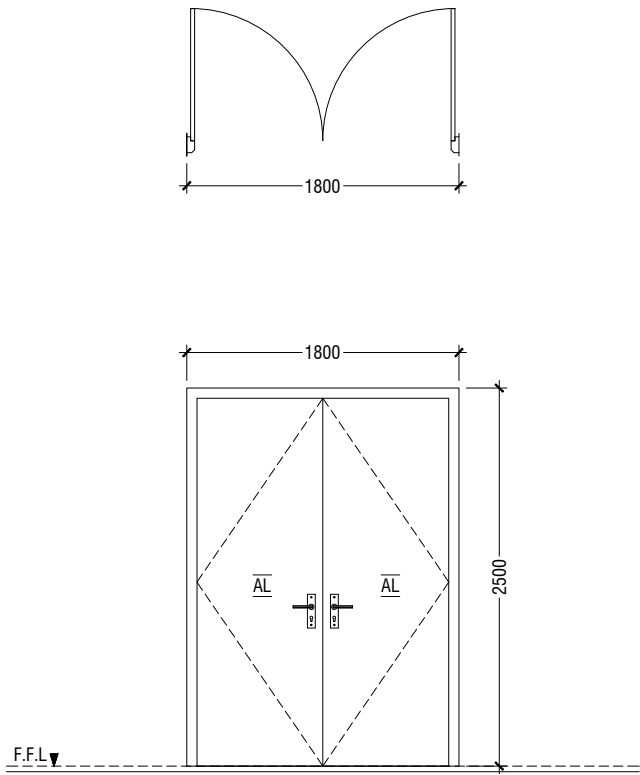
PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

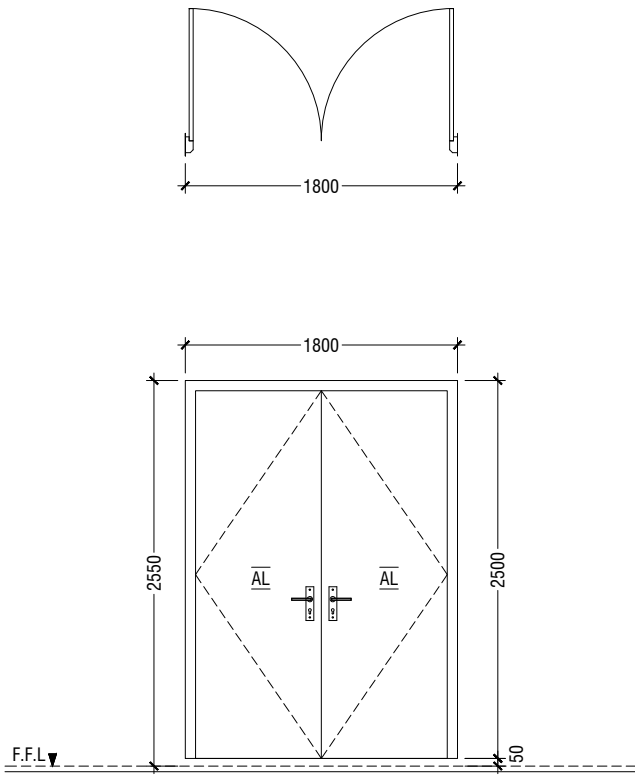
| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |



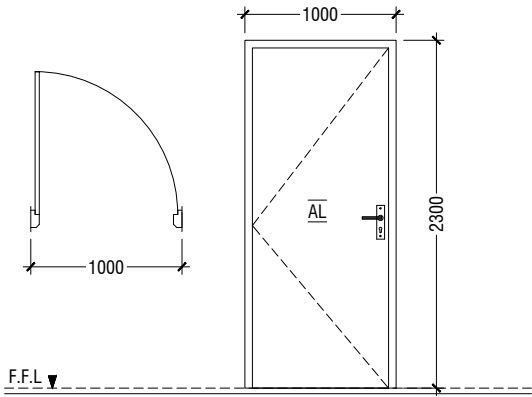
| | |
|-----------|--|
| D1 | DOUBLE SWING DOOR |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL GLASS ON PANEL : 6mm THK REFLECTIVE GLASS |
| LOCATION | HALL MAIN ENTRANCE |
| QUANTITY | 01 NOS |
| OPEN AREA | 5.39 sqm |



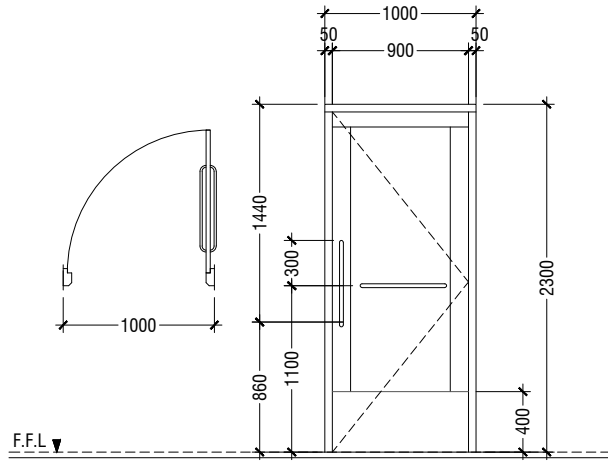
| | |
|-----------|--|
| D2 | DOUBLE SWING DOOR |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL |
| LOCATION | HALL ENTRANCE |
| QUANTITY | 08 NOS |
| OPEN AREA | 4.05 sqm |



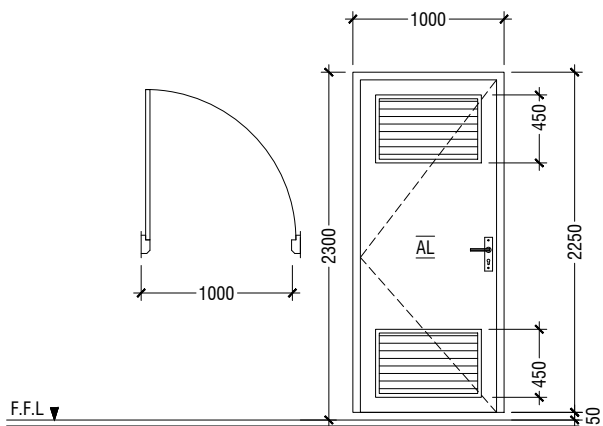
| | |
|-----------|--|
| D2A | DOUBLE SWING DOOR |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL |
| LOCATION | CATWALK ENTRANCE |
| QUANTITY | 02 NOS |
| OPEN AREA | 4.05 sqm |



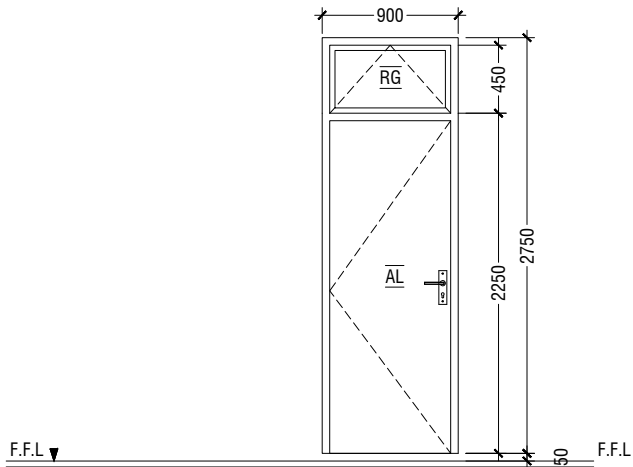
| | |
|-----------|--|
| D3 | SWING DOOR |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL |
| LOCATION | ELECTRIC ROOM, CONTROL ROOM & STORE ROOM, CLEANER CLOSET |
| QUANTITY | 06 NOS |
| OPEN AREA | 2.03 sqm |



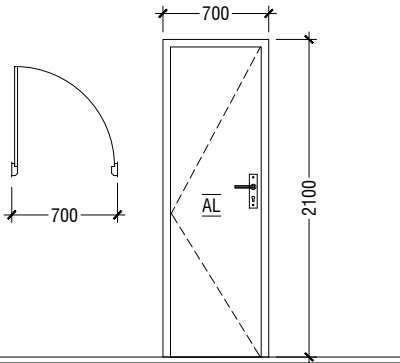
| | |
|-----------|--|
| D4 | SWING DOOR |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINIUM LOUVERS |
| LOCATION | DISABLED TOILET |
| QUANTITY | 01 NOS |
| OPEN AREA | 2.03 sqm |



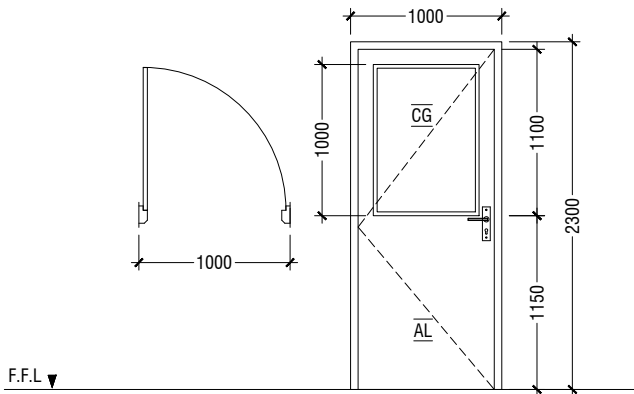
| | |
|-----------|--|
| D5 | SWING DOOR WITH ALUMINIUM LOUVERS |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINIUM LOUVERS |
| LOCATION | TOILETS & UNDER STAIR STORE |
| QUANTITY | 06 NOS |
| OPEN AREA | 1.98 sqm |



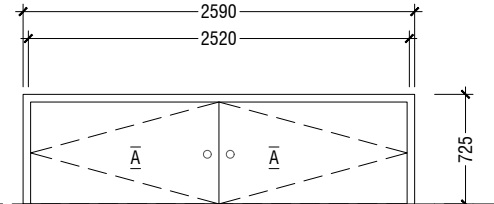
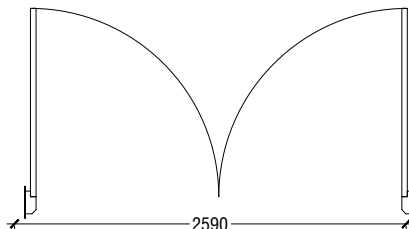
| | |
|-----------|---|
| D6 | SWING DOOR WITH TOP HUNG WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL DOOR AND REFLECTIVE GLASS WINDOW |
| LOCATION | CHANGING ROOM |
| QUANTITY | 02 NOS |
| OPEN AREA | 2.12 sqm |



| | |
|-----------|--|
| D7 | SWING DOOR |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL |
| LOCATION | TOILETS |
| QUANTITY | 09 NOS |
| OPEN AREA | 1.23 SQM |



| | |
|-----------|--|
| D8 | SWING DOOR |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS |
| LOCATION | CLASSROOMS |
| QUANTITY | 16 NOS |
| OPEN AREA | 2.03 sqm |

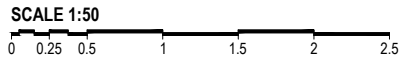



| | |
|-----------|--|
| D9 | DOUBLE SWING DOOR |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL |
| LOCATION | STAGE STORE ACCESS |
| QUANTITY | 05 NOS |
| OPEN AREA | 1.66 SQM |

LEGEND:
FCG - FIXED CLEAR GLASS
FRG - FIXED REFLECTED GLASS
RG - REFLECTED GLASS
AL - ALUMINIUM
PVC - POLYVINYL CHLORIDE

NOTE:-
- FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES, LIKEWISE, THE BEAM DEPTH CHANGES AT DIFFERENT LOCATIONS OF SIMILAR DOORS/WINDOWS AND WILL BE SUBJECTED TO CHANGES
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB)
ABOVE THE DOOR / WINDOW.
- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)
- FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

DOOR / WINDOW SCHEDULE - 1





PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

PROJECT :

PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF:

SCALE : AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

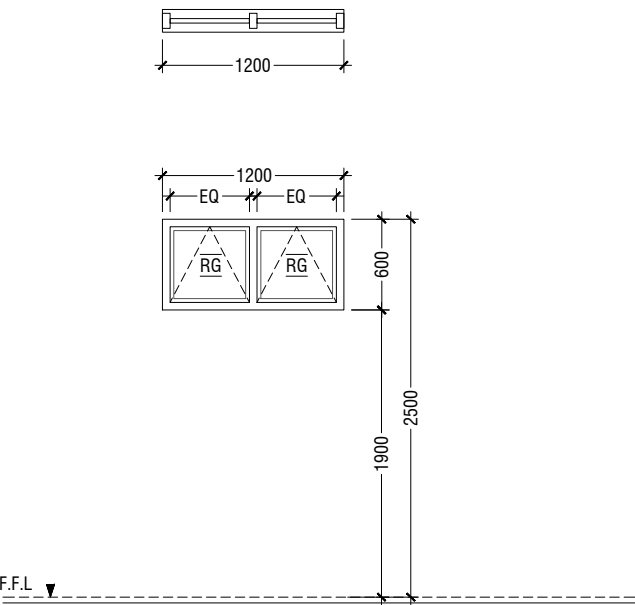
CHECKED :

DATE : 05.03.2023

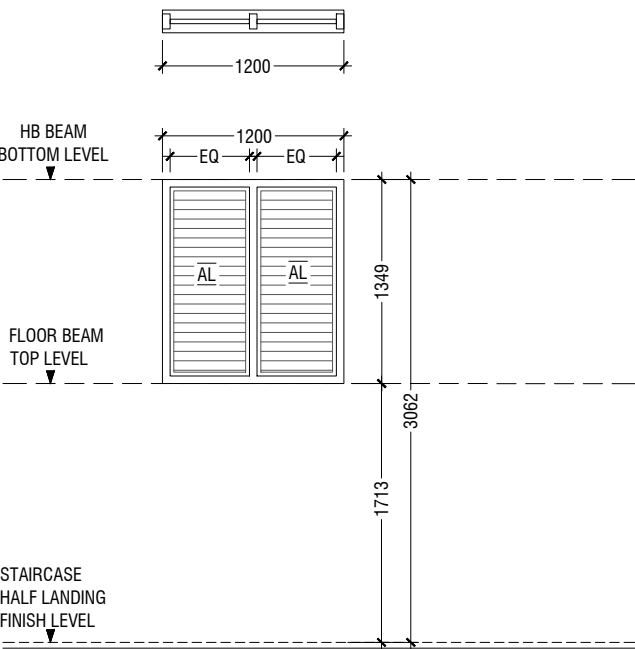
AMMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

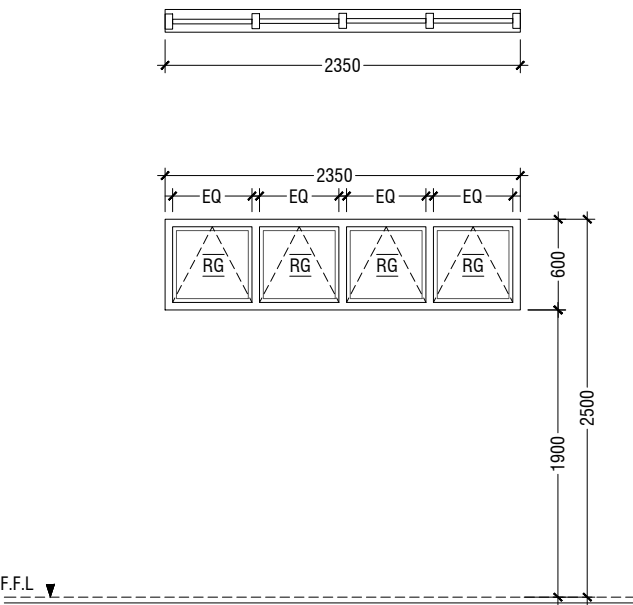
DWG NO : A08 - 69



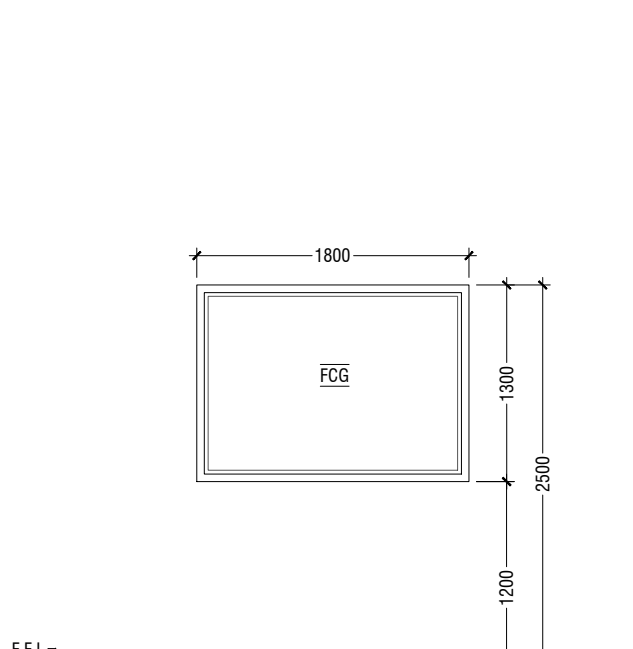
| | |
|-----------|--|
| W1 | TOP HUNG WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS |
| LOCATION | STORE ROOMS , ELECTRICAL ROOM |
| QUANTITY | 03 NOS |
| OPEN AREA | 0.53 sqm |



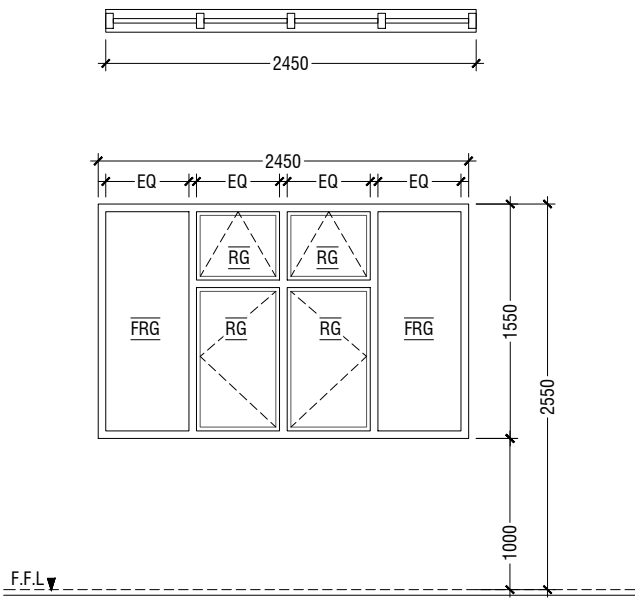
| | |
|-----------|---|
| W6 | LOUVERED WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH ALUMINIUM LOUVERS |
| LOCATION | STAIRCASE HALF LANDING |
| QUANTITY | 04 NOS |
| OPEN AREA | 0.53 sqm |



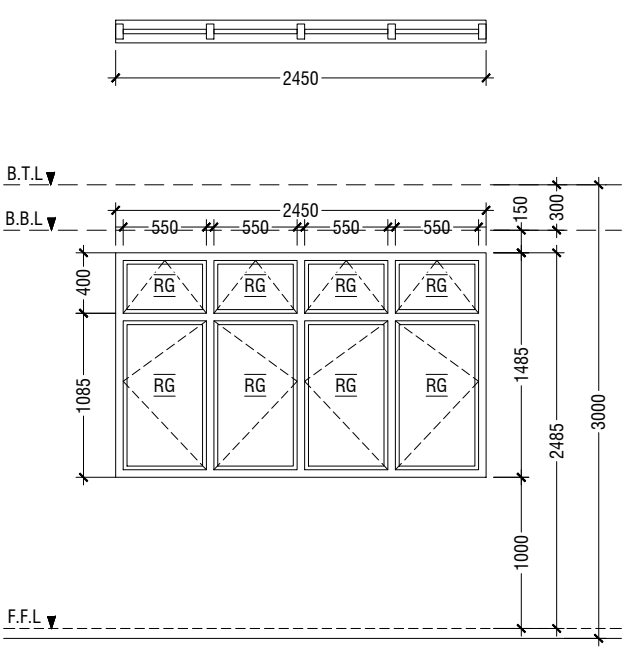
| | |
|-----------|--|
| W2 | TOP HUNG WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS |
| LOCATION | STORAGE |
| QUANTITY | 00 NOS |
| OPEN AREA | 1.05 sqm |



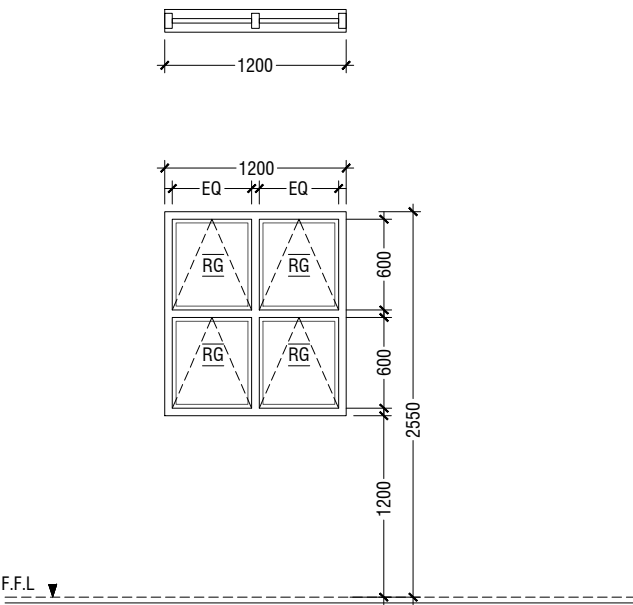
| | |
|-----------|---|
| W7 | FIXED WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK CLEAR GLASS PANEL |
| LOCATION | CONTROL ROOM |
| QUANTITY | 01 NOS |
| OPEN AREA | - sqm |



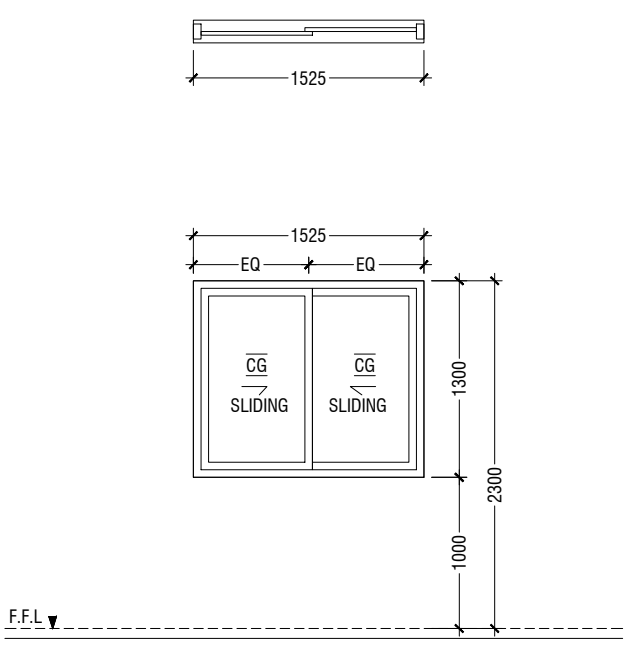
| | |
|-----------|--|
| W3 | WINDOW WITH FIXED GLASS & SWING WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH ALUMINIUM LOUVERS AND 6mm THICK REFLECTED FIXED GLASS PANELS |
| LOCATION | HALL |
| QUANTITY | 12 NOS |
| OPEN AREA | 1.59 sqm |



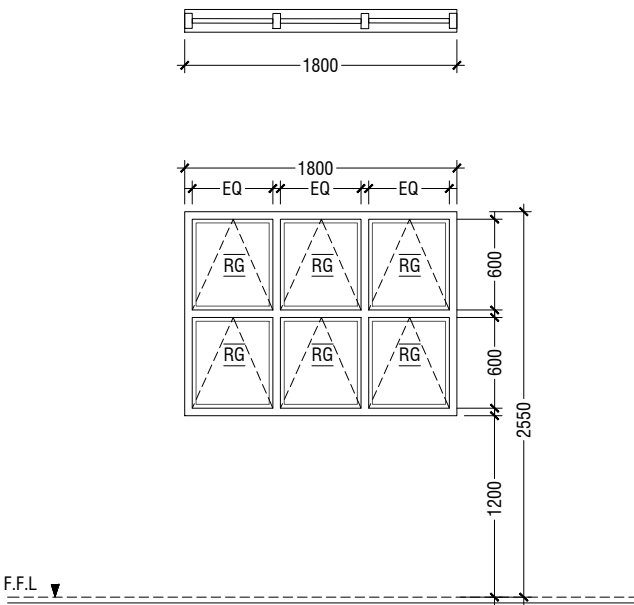
| | |
|-----------|--|
| W8 | SWING WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS |
| LOCATION | CLASSROOMS |
| QUANTITY | 16 NOS |
| OPEN AREA | 2.94 sqm |



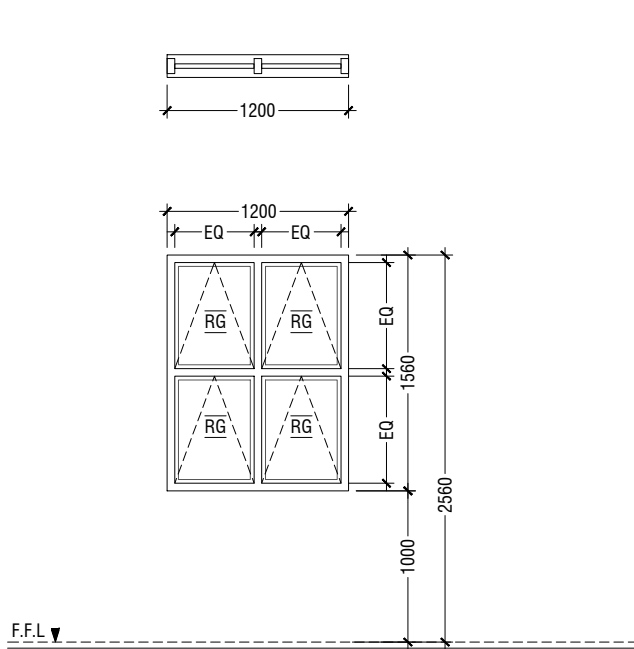
| | |
|-----------|--|
| W4 | TOP HUNG WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS |
| LOCATION | STORE ROOMS , CONTROL ROOM |
| QUANTITY | 05 NOS |
| OPEN AREA | 1.26 sqm |



| | |
|-----------|--|
| W9 | SLIDING WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS |
| LOCATION | CLASSROOMS |
| QUANTITY | 16 NOS |
| OPEN AREA | 0.83 sqm |



| | |
|-----------|--|
| W5 | TOP HUNG WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS |
| LOCATION | STAIRCASE LANDING |
| QUANTITY | 02 NOS |
| OPEN AREA | 1.92 sqm |




| | |
|-----------|--|
| W10 | TOP HUNG WINDOW |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS |
| LOCATION | STORAGE |
| QUANTITY | 03 NOS |
| OPEN AREA | 1.48 sqm |

LEGEND:
FCG - FIXED CLEAR GLASS
FRG - FIXED REFLECTED GLASS
RG - REFLECTED GLASS
AL - ALUMINIUM
PVC - POLYVINYL CHLORIDE

NOTE:-
- FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES, LIKEWISE, THE BEAM DEPTH CHANGES AT DIFFERENT LOCATIONS OF SIMILAR DOORS/WINDOWS AND WILL BE SUBJECTED TO CHANGES
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)
- FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

DOOR / WINDOW SCHEDULE - 2

SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

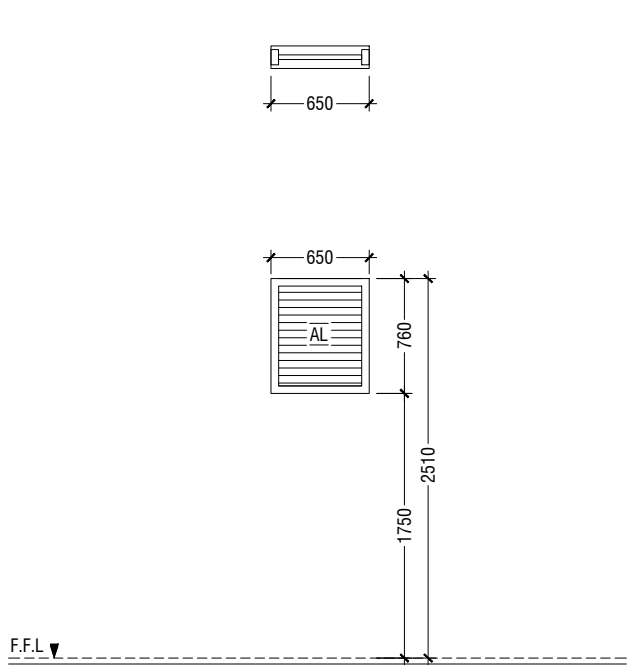
PROJECT :
**PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL**

PROJ. REF:
SCALE : AS GIVEN

ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

AMMENDMENTS
Issue Date Description

DWG NO :A09 - 69



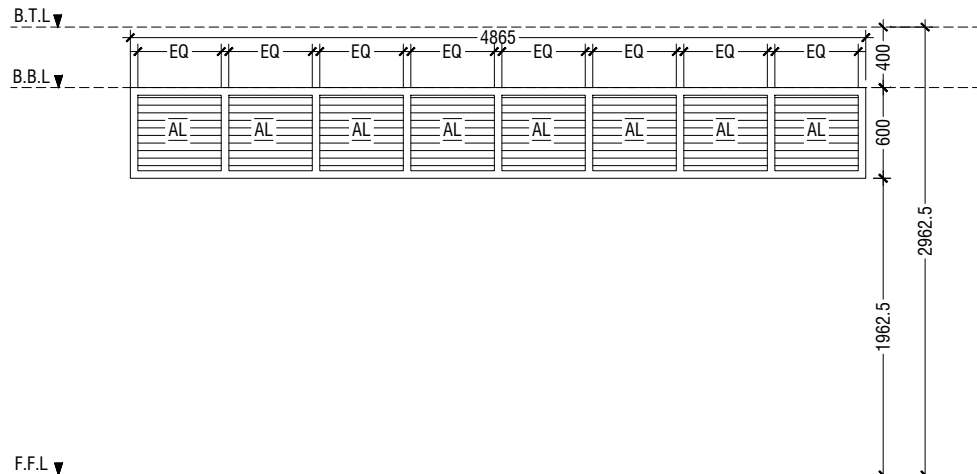
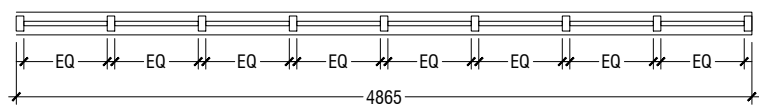
| | |
|-----------|---|
| (W1) | WINDOW WITH ALUMINUM LOUVERS |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS |
| LOCATION | TOILETS |
| QUANTITY | 02 NOS |
| OPEN AREA | 0.36 SQM |

LEGEND:
FCG - FIXED CLEAR GLASS
FRG - FIXED REFLECTED GLASS
RG - REFLECTED GLASS
AL - ALUMINIUM
PVC - POLYVINYL CHLORIDE

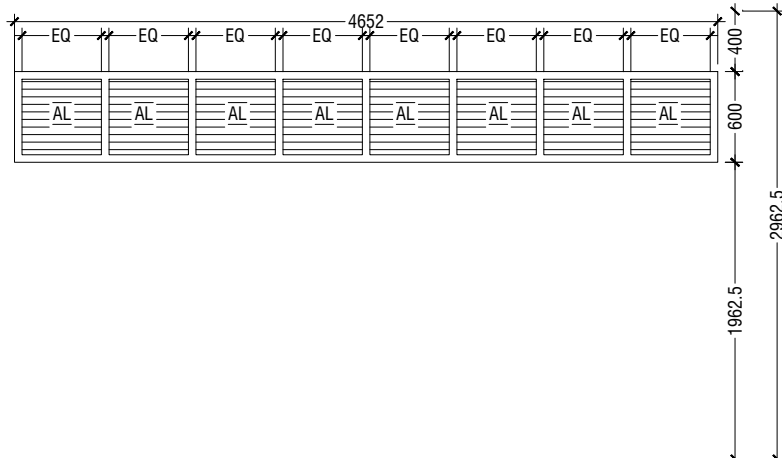
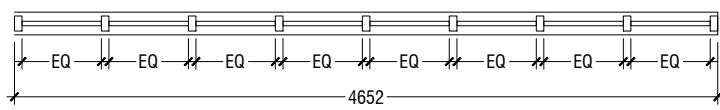
NOTE:-
- FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES, LIKEWISE, THE BEAM DEPTH CHANGES AT DIFFERENT LOCATIONS OF SIMILAR DOORS/WINDOWS AND WILL BE SUBJECTED TO CHANGES
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)
- FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

DOOR / WINDOW SCHEDULE - 3

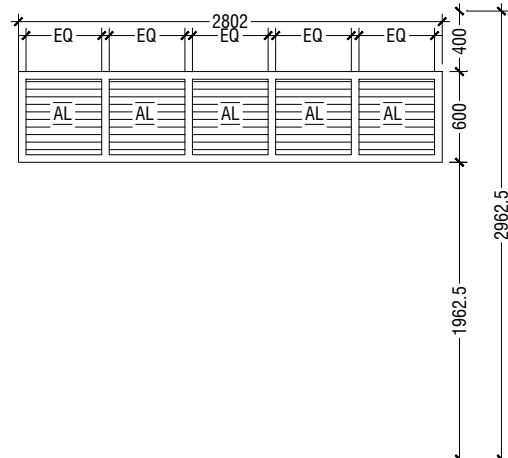
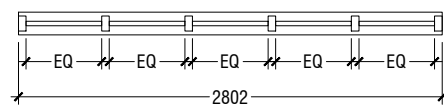
SCALE 1:50
0 0.25 0.5 1 1.5 2 2.5



| | |
|-----------|---|
| (V1) | SUNSHADING |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS |
| LOCATION | CORRIDOR |
| QUANTITY | 01 NOS |
| OPEN AREA | - |



| | |
|-----------|---|
| (V2) | SUNSHADING |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS |
| LOCATION | CORRIDOR |
| QUANTITY | 01 NOS |
| OPEN AREA | - |



| | |
|-----------|---|
| (V3) | SUNSHADING |
| REMARKS | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS |
| LOCATION | CORRIDOR |
| QUANTITY | 01 NOS |
| OPEN AREA | - |

| | Room name | Room Areas (sqm) (Specify centre to centre or clear) | Window (opening) number | Required opening areas (sqm) | Designed opening areas (sqm) | Open % |
|----|---------------------|--|----------------------------|------------------------------------|---------------------------------|--------|
| | Ground Floor | | | | | |
| 1 | Multi-purpose Hall | 497.29 | D1, 8*D2 & 12*W3 | 49.73 | 56.87 | 11.44% |
| 2 | Electrical Room | 14.83 | 3*W1 | 1.48 | 1.59 | 10.72% |
| 3 | Changing Room -1 | 4.37 | D6 | 0.44 | 2.12 | 48.51% |
| 4 | Changing Room -2 | 4.33 | D6 | 0.43 | 2.12 | 48.96% |
| 5 | Storage - 1 | 5.51 | Mechanical Ventilation | | | |
| 6 | Storage - 2 | 6.57 | W2 | 0.66 | 1.05 | 15.98% |
| 7 | Toilet for Disable | 5.01 | Mechanical Ventilation | | | |
| 8 | Toilet (Male) | 7.46 | RC FINS | | | |
| 9 | Toilet (Female) | 9.21 | RC FINS | | | |
| | | | | | | |
| | First Floor | | | | | |
| 1 | Control Room | 11.49 | 2*W4 | 1.15 | 2.52 | 21.93% |
| 2 | Store Room | 14.83 | 3*W4 | 1.48 | 3.78 | 25.49% |
| | | | | | | |
| | Second Floor | | | | | |
| 1 | Class Room - 1 | 58.03 | 2*D8, 2*W8 & 2*W9 | 5.80 | 11.60 | 19.99% |
| 2 | Class Room - 2 | 57.96 | 2*D8, 2*W8 & 2*W9 | 5.80 | 11.60 | 20.01% |
| 3 | Class Room - 3 | 57.96 | 2*D8, 2*W8 & 2*W9 | 5.80 | 11.60 | 20.01% |
| 4 | Class Room - 4 | 57.96 | 2*D8, 2*W8 & 2*W9 | 5.80 | 11.60 | 20.01% |
| 5 | Class Room - 5 | 58.03 | 2*D8, 2*W8 & 2*W9 | 5.80 | 11.60 | 19.99% |
| 6 | Class Room - 6 | 57.96 | 2*D8, 2*W8 & 2*W9 | 5.80 | 11.60 | 20.01% |
| 7 | Class Room - 7 | 58.03 | 2*D8, 2*W8 & 2*W9 | 5.80 | 11.60 | 19.99% |
| 8 | Class Room - 8 | 57.96 | 2*D8, 2*W8 & 2*W9 | 5.80 | 11.60 | 20.01% |
| 9 | Toilet (Male) | 15.41 | RC FINS | | | |
| 10 | Toilet (Female) | 15.39 | RC FINS | | | |
| 11 | Cleaner Closet | 4.46 | Mechanical Ventilation | | | |
| 12 | Storage | 4.99 | 3*W10 | 0.50 | 4.44 | 88.98% |

VENTILATION SCHEDULE

NOT TO SCALE

PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

PROJECT :

PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF:

SCALE : AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

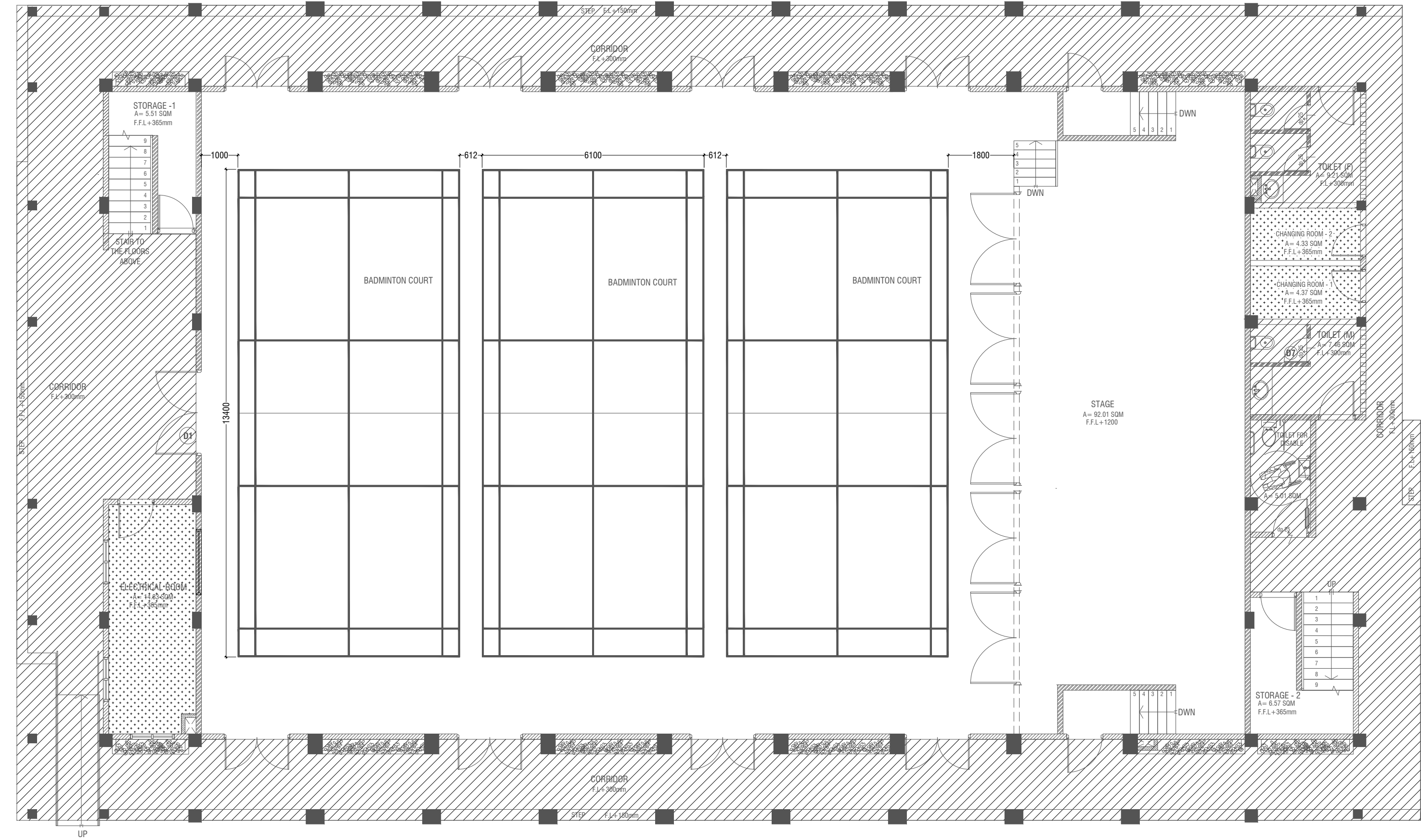
CHECKED :

DATE : 05.03.2023

AMMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO :A16 - 69



GROUND FLOOR REFLECTED CEILING PLAN

SCALE 1:100
0 0.5 1 2 3 4 5

| LEGEND | |
|--------|--|
| CODE | DESCRIPTION |
| | EXPOSED SLAB SOFFIT TO BE GROUND SMOOTH IN SELECT PAINT FINISH (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT) |
| | 6mm THICK CEMENT BOARD CEILING (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT) |

PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

PROJECT :

PROJ. REF:

SCALE : AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

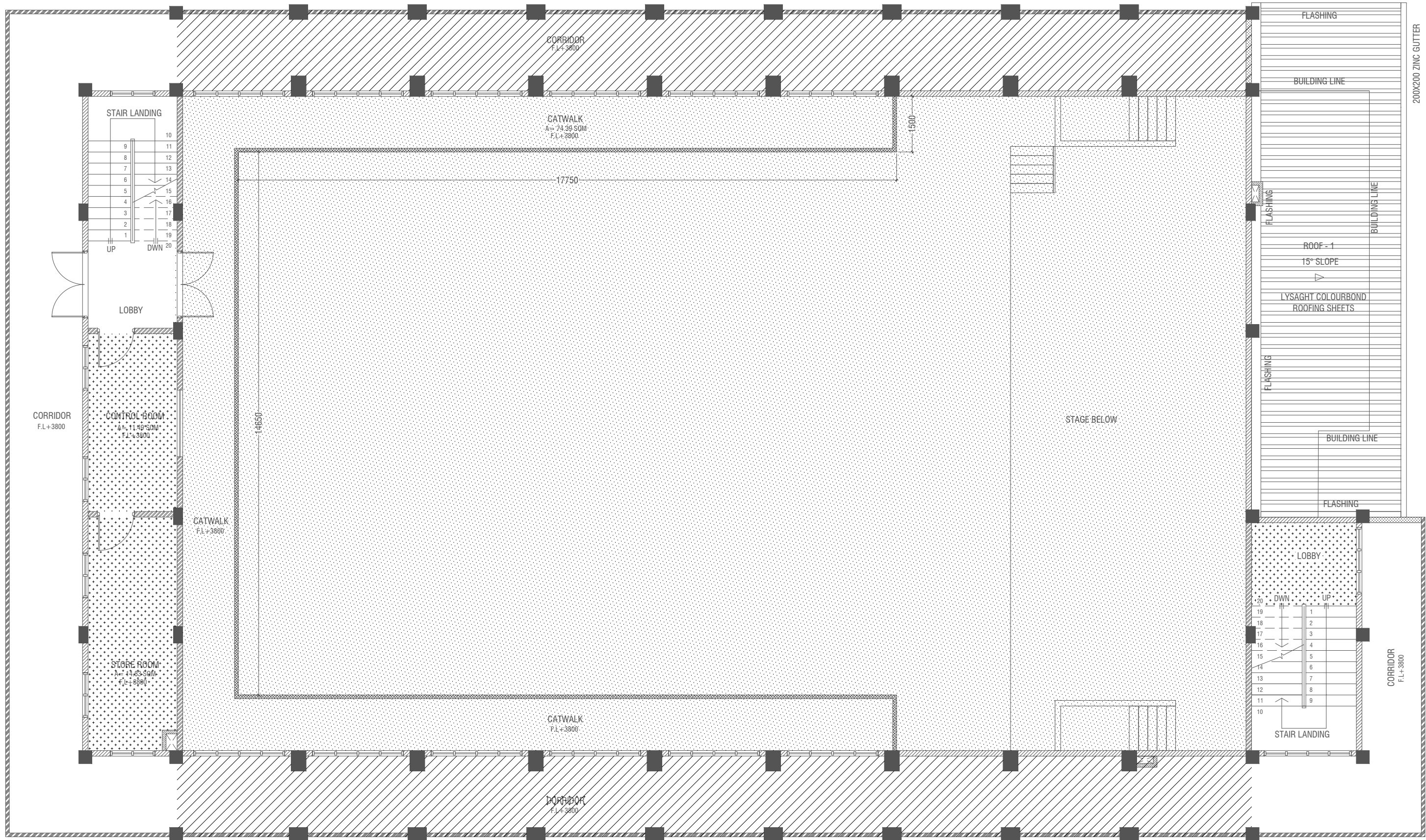
CHECKED :

DATE : 05.03.2023

AMMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |

DWG NO :A11 - 69



FIRST FLOOR REFLECTED CEILING PLAN

SCALE 1:100
0 0.5 1 2 3 4 5

LEGEND

| CODE | DESCRIPTION |
|------|--|
| | EXPOSED SLAB SOFFIT TO BE GROUND SMOOTH IN SELECT PAINT FINISH (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT) |
| | SUSPENDED ACOUSTIC CEILING SYSTEM WITH ALUMINUM FRAMING CEILING HEIGHT : +6900mm |
| | 6mm THICK CEMENT BOARD CEILING (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT) |

PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

PROJECT :

PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF:

SCALE : AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

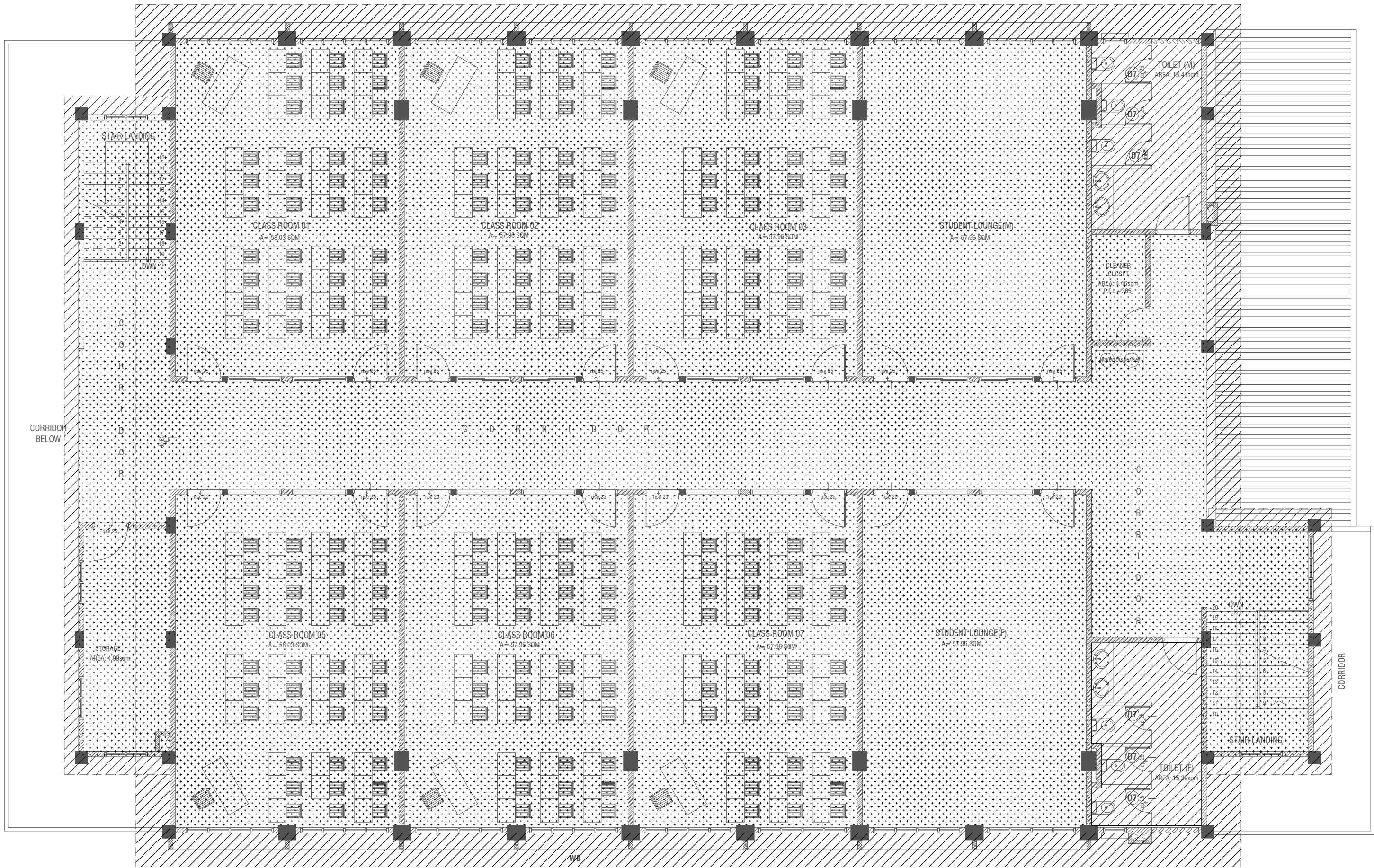
CHECKED :

DATE : 05.03.2023

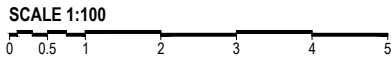
AMMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |


DWG NO :A12 - 69



SECOND FLOOR REFLECTED CEILING PLAN



| LEGEND | |
|--------|---|
| CODE | DESCRIPTION |
| | 9mm THICK FIXED CEILING 'BORAL' OR EQUIVALENT PLASTERBOARD CEILING SYSTEM WITH TIMBER FRAMES, APPLIED WITH GROUND SMOOTH FINISH IN SELECTED PAINT |
| | 6mm THICK CEMENT BOARD ON ROOF EAVE/GABLE CEILING (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT) |



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

PROJECT :

PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF:

SCALE : AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

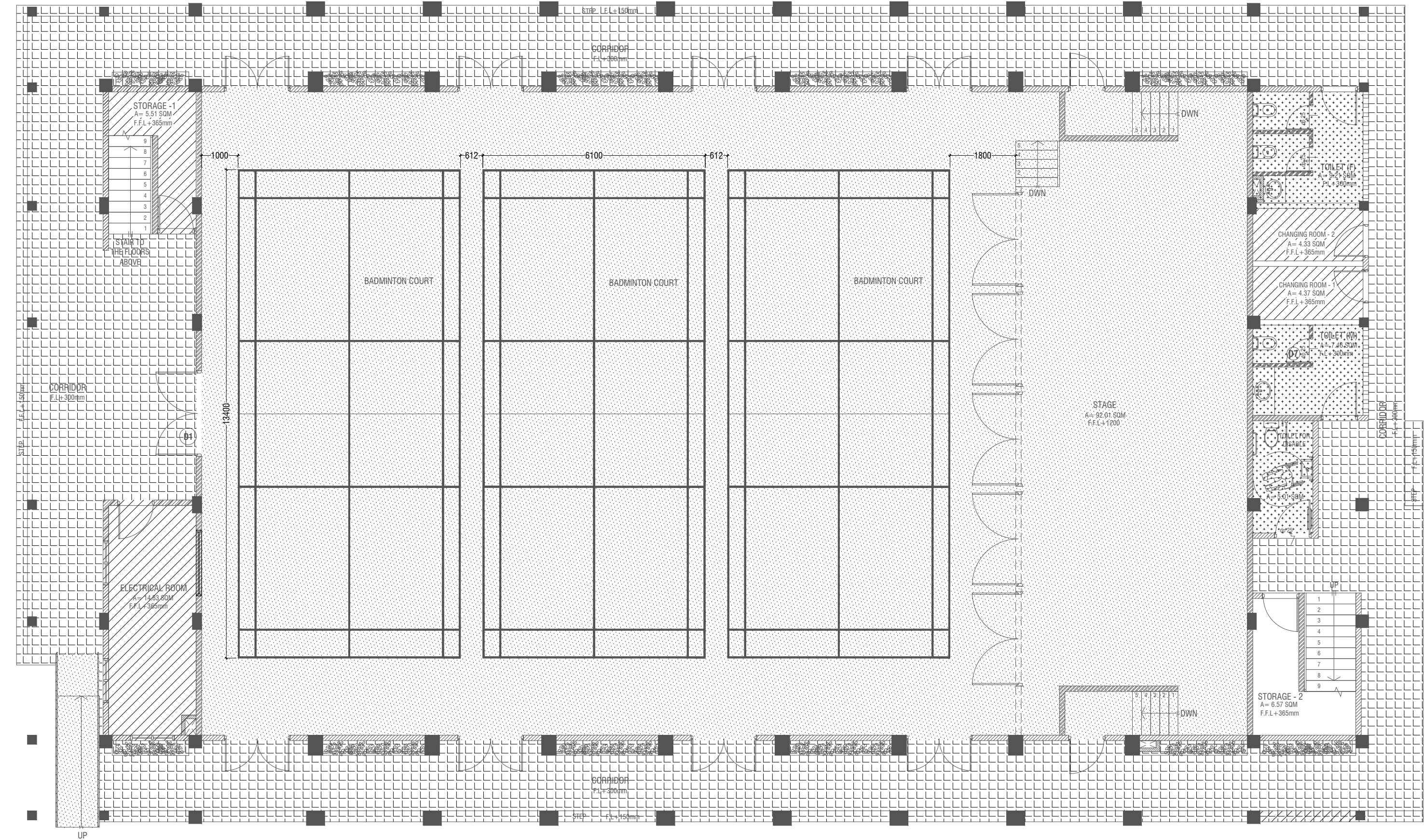
CHECKED :

DATE : 05.03.2023

AMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |
| | | |

DWG NO :A13 - 69



GROUND FLOOR FINISHES PLAN

SCALE 1:100



LEGEND

| CODE | DESCRIPTION |
|------|--|
| | 2.5mm SELF LEVELING CEMENT WITH EPOXY FLOOR PAINT (2 COATS OF EPOXY) |
| | 600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING |
| | 600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERPEL 588 OR EQUIVALENT ON TOP OF THE SLAB) |

| | |
|--|--|
| | 300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING(APPLY SYNTHETIC WATERPROOFING ON SLAB) |
|--|--|

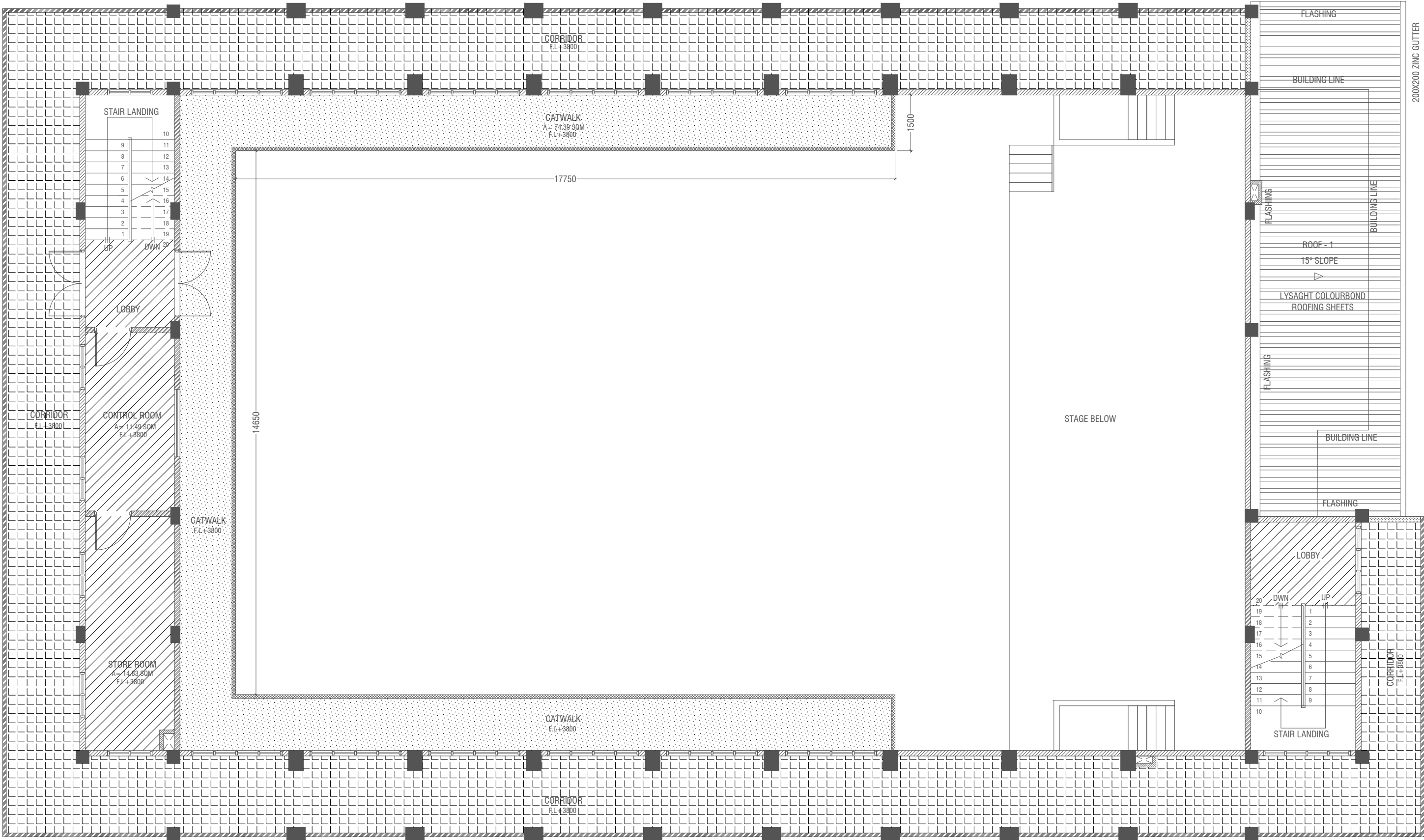
NOTE:
BADMINTON COURT TO BE DRAWN ON WITH ELASTOMETRIC PAINT IN SELECTED PAINT FINISH

STAGE SHOULD HAVE A CARPET FINISH ON TOP OF THE 25X100mm HARDWOOD FLOORING

PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |



FIRST FLOOR FINISHES PLAN

SCALE 1:100



LEGEND

| CODE | DESCRIPTION |
|------|--|
| | 35mm NORMAL SCREEDING WITH 2.5mm SELF LEVELING CEMENT WITH EPOXY FLOOR PAINT (2 COATS OF EPOXY) |
| | 600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING |
| | SELF LEVELLING CEMENT FLOOR SCREED WITH BITUMINOUS WATERPROOFING AGENT |
| | 600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERPEL 588 OR EQUIVALENT ON TOP OF THE SLAB) |

PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

PROJECT :

PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF:

SCALE :

AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

CHECKED :

DATE :

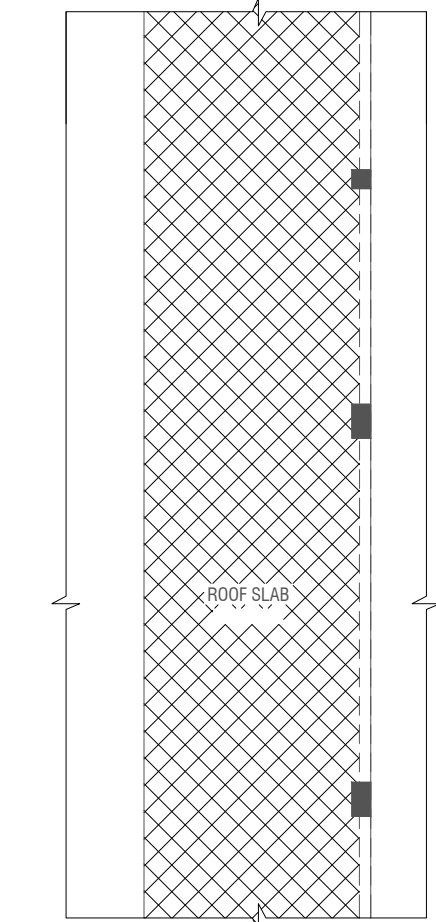
05.03.2023

AMMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |

DWG NO :A15

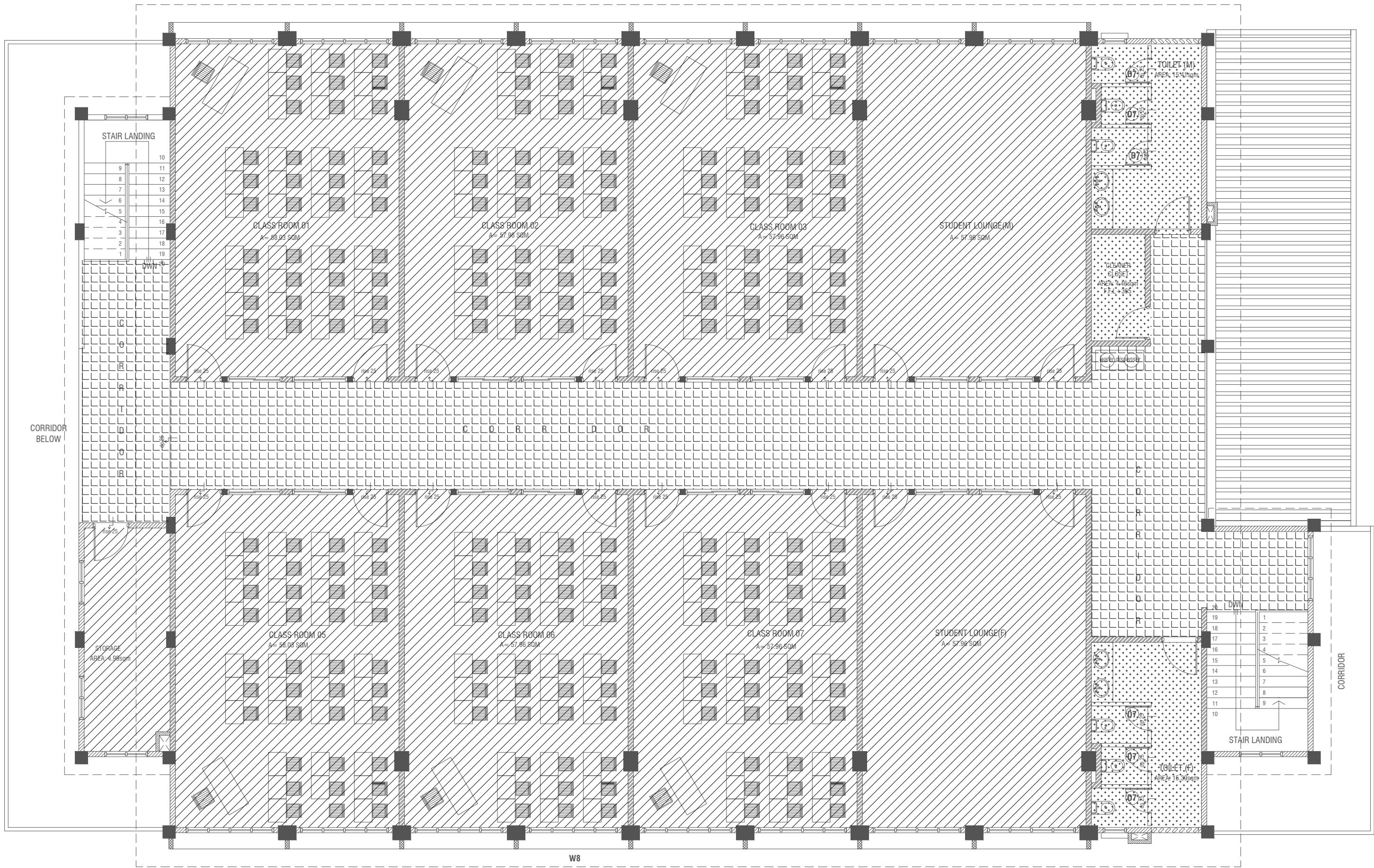
- 69



NOTE:
THE FINISH FLOOR LEVELS OF THE SLAB TOP OF THE ROOF SLABS SHALL
BE DONE WITH SELF-LEVELLING CEMENT FLOOR SCREED
WITH BITUMINOUS WATERPROOFING AGENT

ROOF SLAB FLOOR FINISHES PLAN

SCALE 1:100
0 0.5 1 2 3 4 5

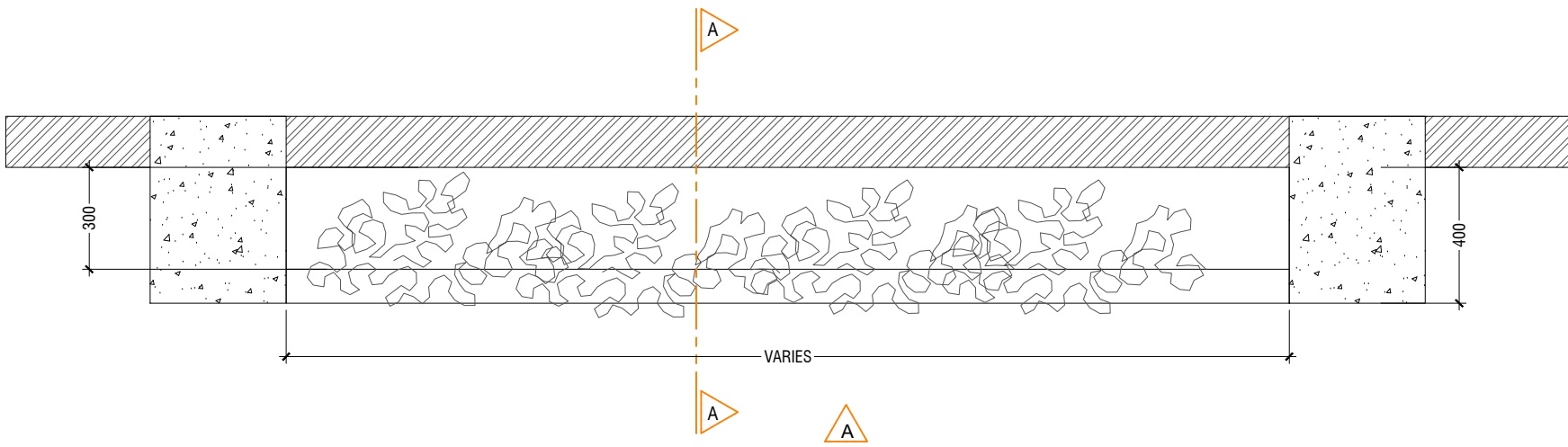


SECOND FLOOR FINISHES PLAN

SCALE 1:100
0 0.5 1 2 3 4 5

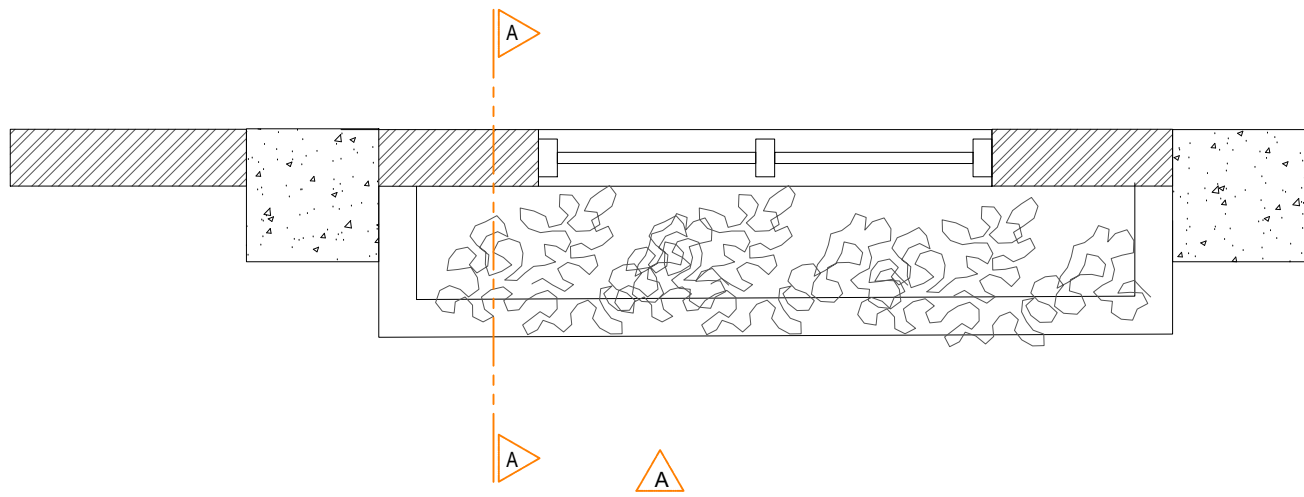
LEGEND

| CODE | DESCRIPTION |
|------|---|
| | 600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING |
| | SELF LEVELLING CEMENT FLOOR SCREED WITH BITUMINOUS WATERPROOFING AGENT |
| | 300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING(APPLY SYNTHETIC WATERPROOFING ON SLAB) |
| | 600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERPEL 588 OR EQUIVALENT ON TOP OF THE SLAB) |



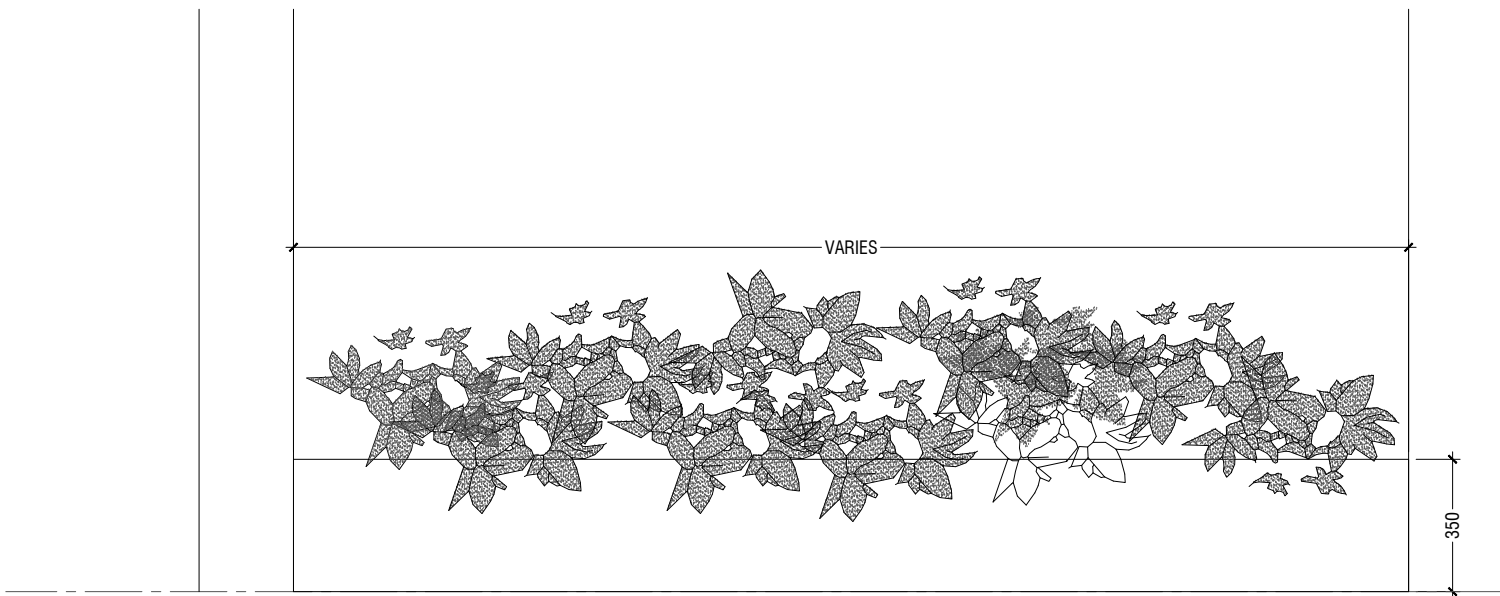
TYPICAL PLAN VIEW TYPE - 1

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1



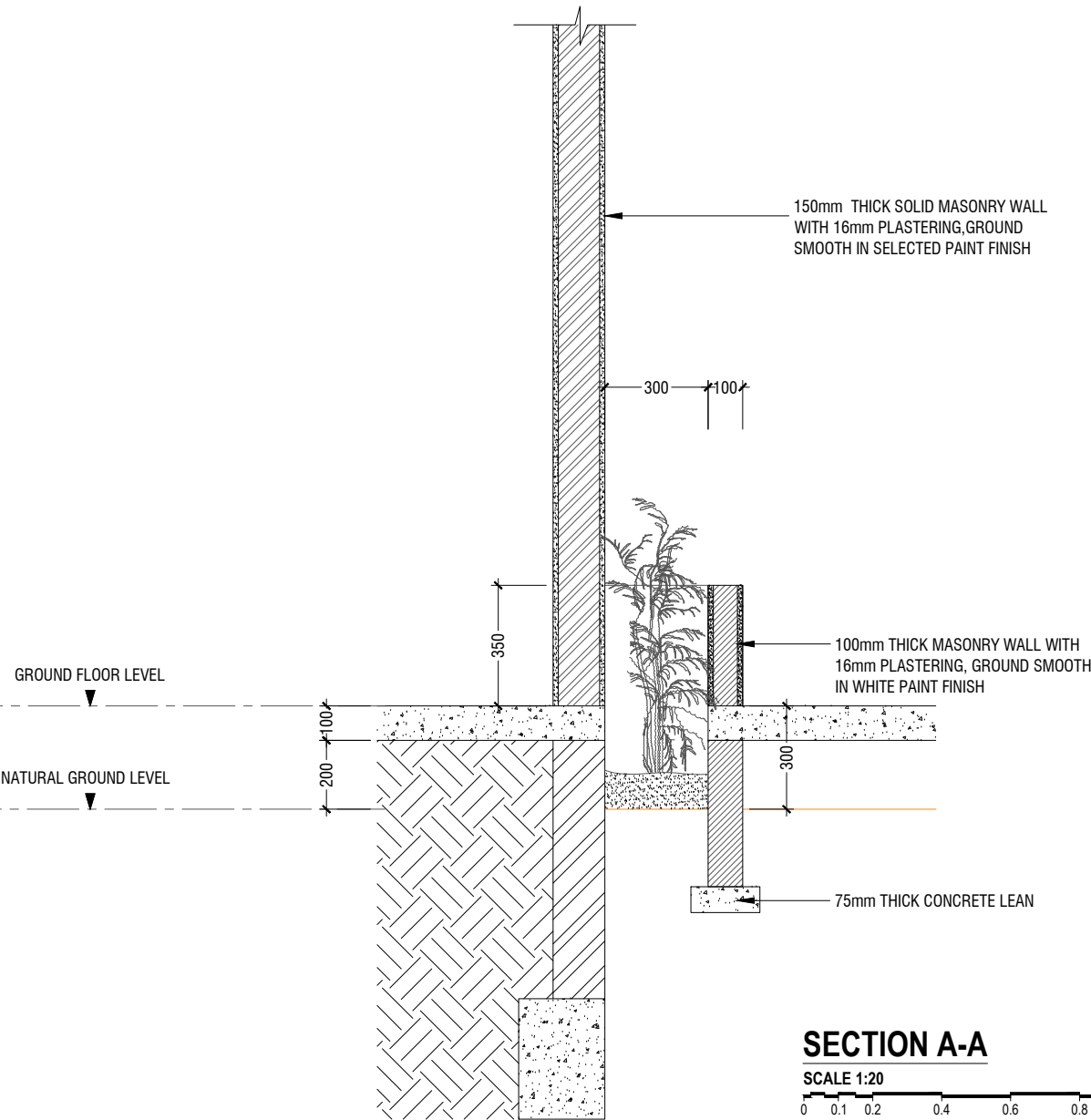
TYPICAL PLAN VIEW TYPE - 2

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1



ELEVATION A

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1




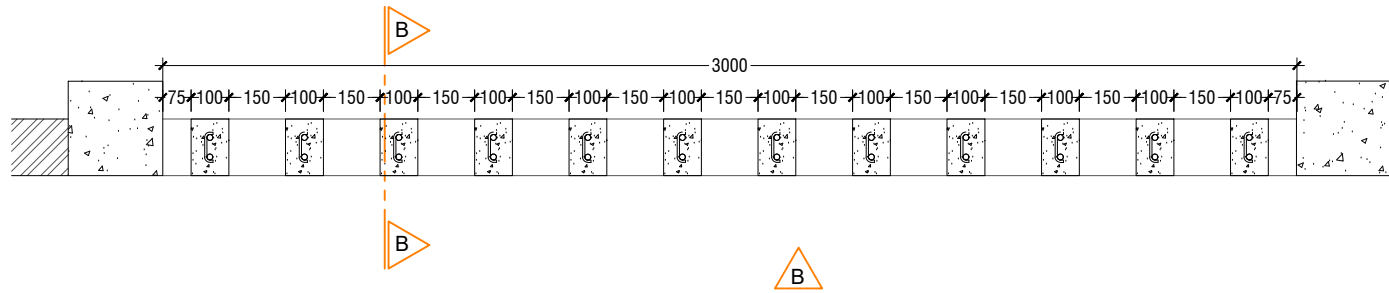
SECTION A-A

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1

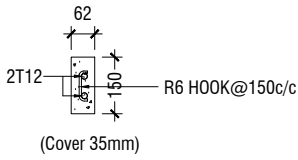
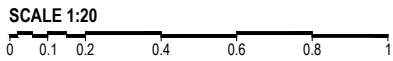
DETAIL - 1 (PLANTER BOX DETAILS)

SCALE 1:20
0 0.1 0.2 0.4 0.6 0.8 1

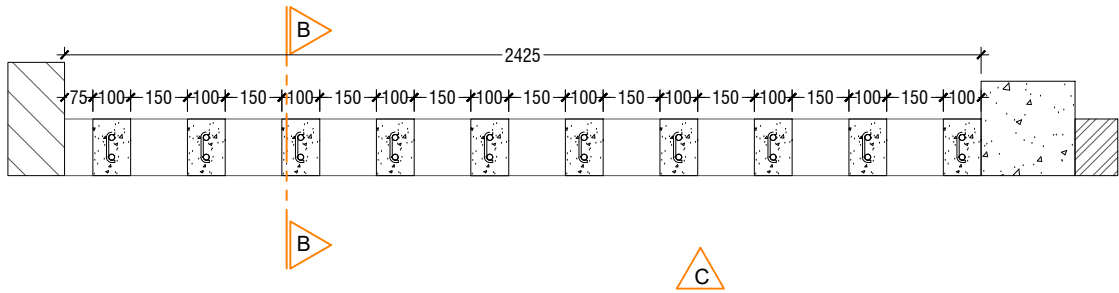
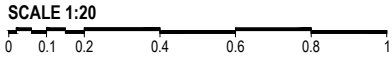
| | | |
|---|------|-------------|
|  PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION REPUBLIC OF MALDIVES | | |
| PROJECT : PROPOSED MULTIPURPOSE HALL & 6 CLASSROOM AT AA. BODUFOLHADHOO SCHOOL | | |
| PROJ. REF: _____ | | |
| SCALE : AS GIVEN | | |
| ARCHITECT : _____ | | |
| ENGINEER : _____ | | |
| DRAWN : _____ | | |
| CHECKED : _____ | | |
| DATE : 05.03.2023 | | |
| AMMENDMENTS | | |
| Issue | Date | Description |
| | | |
| | | |
| DWG NO :A17 - 69 | | |



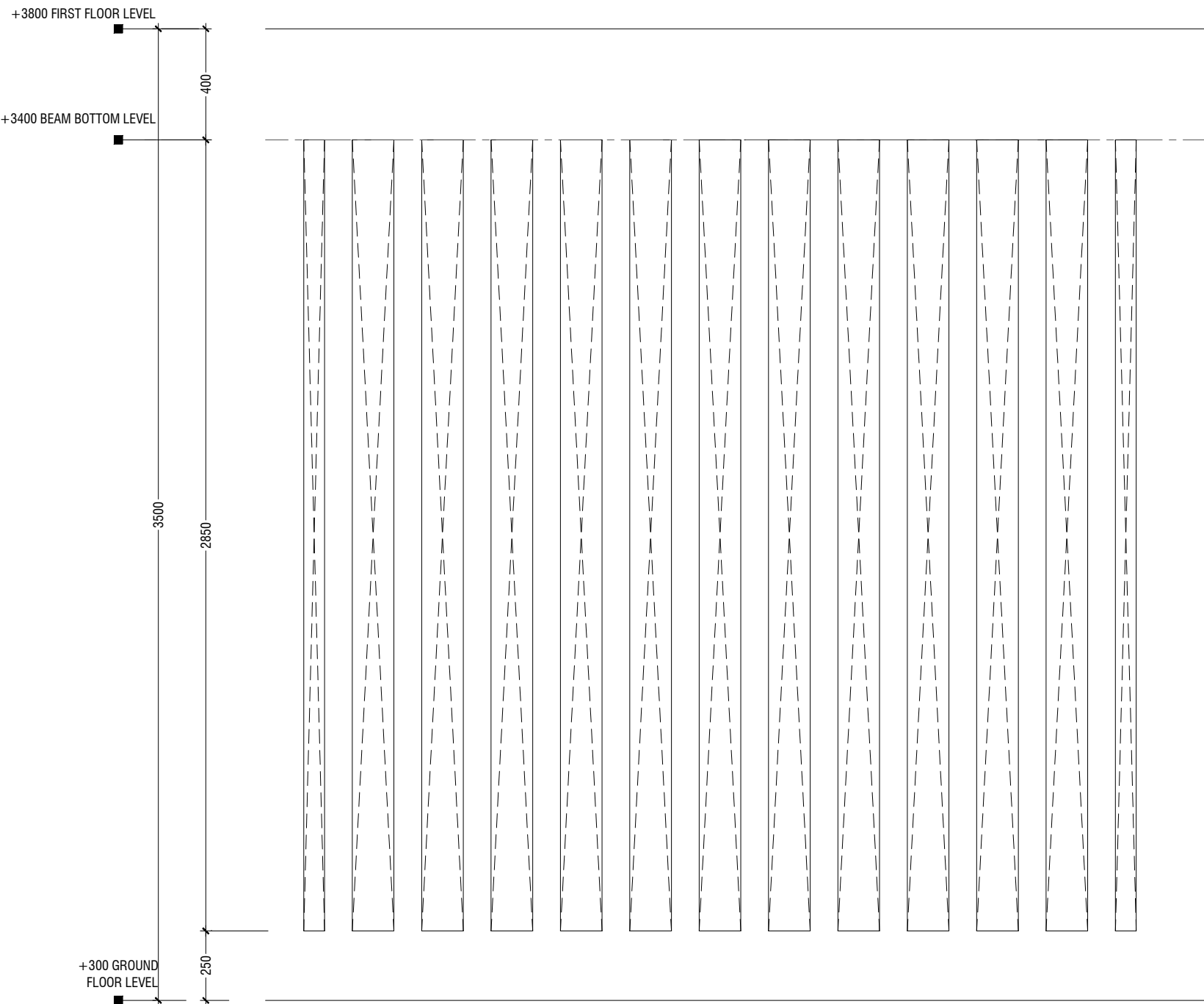
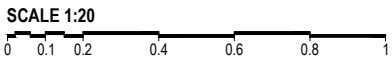
TYPE - 1 PLAN VIEW



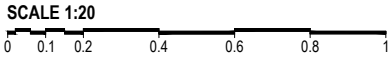
RC FIN DETAIL



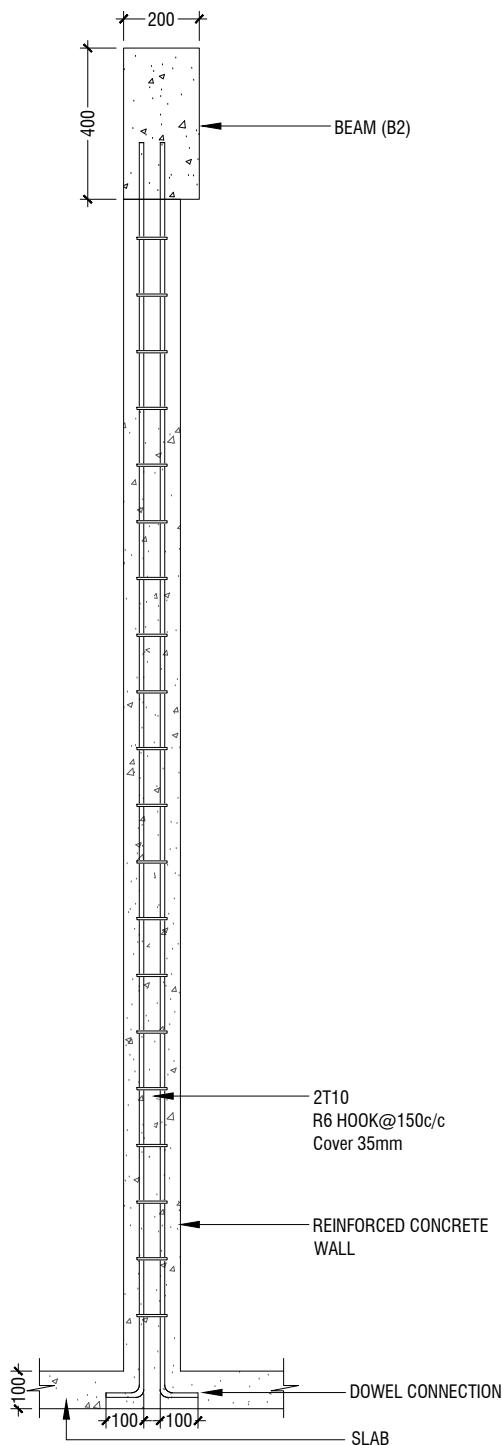
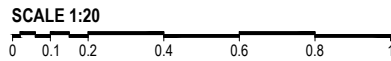
TYPE - 2 PLAN VIEW



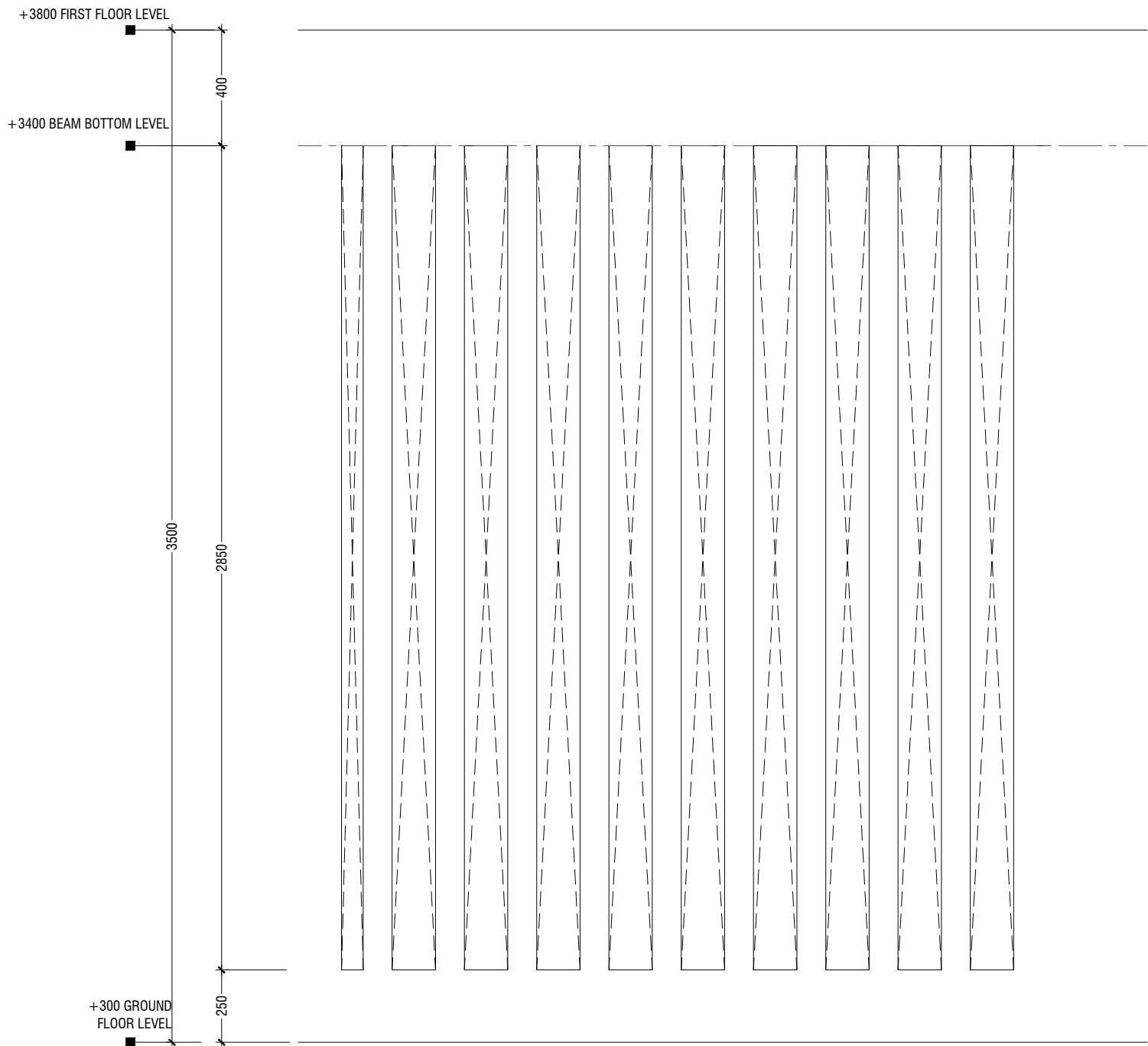
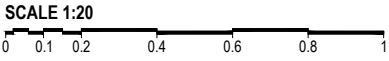
ELEVATION - B



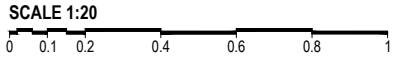
DETAIL - 2 (RC FIN DETAILS)



SECTION B-B



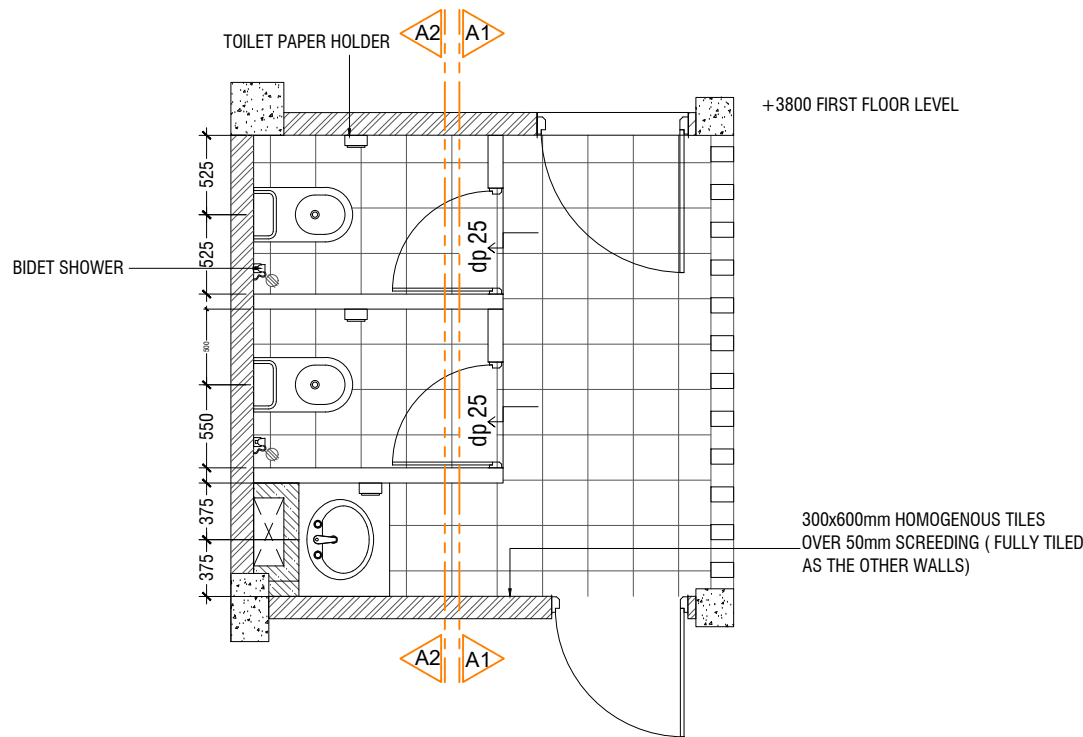
ELEVATION - C



PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |

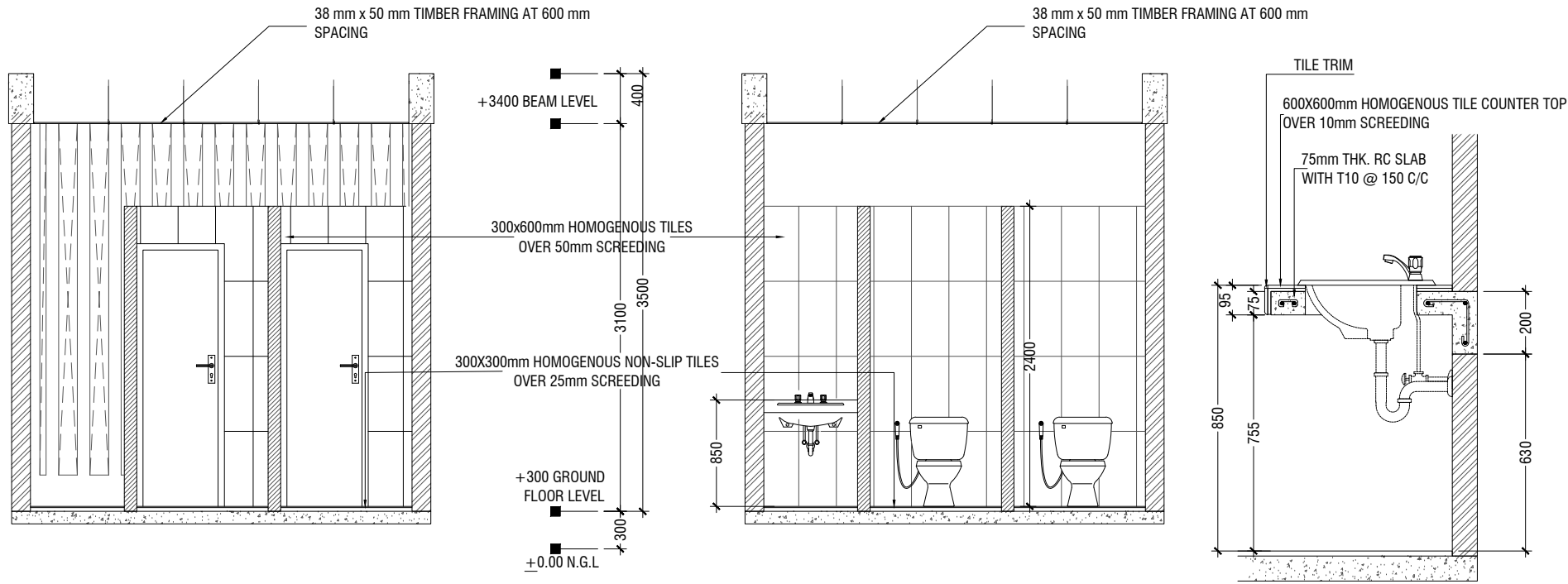


TYPICAL TOILET PLAN

SCALE 1:50

DETAIL - 3

SCALE 1:50



SECTION A1-A1

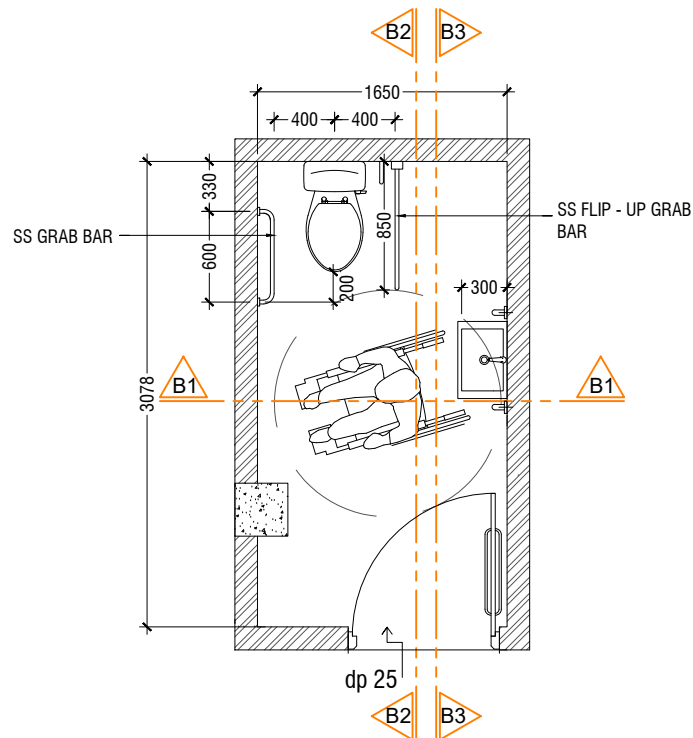
SCALE 1:50

SECTION A2-A2

SCALE 1:50

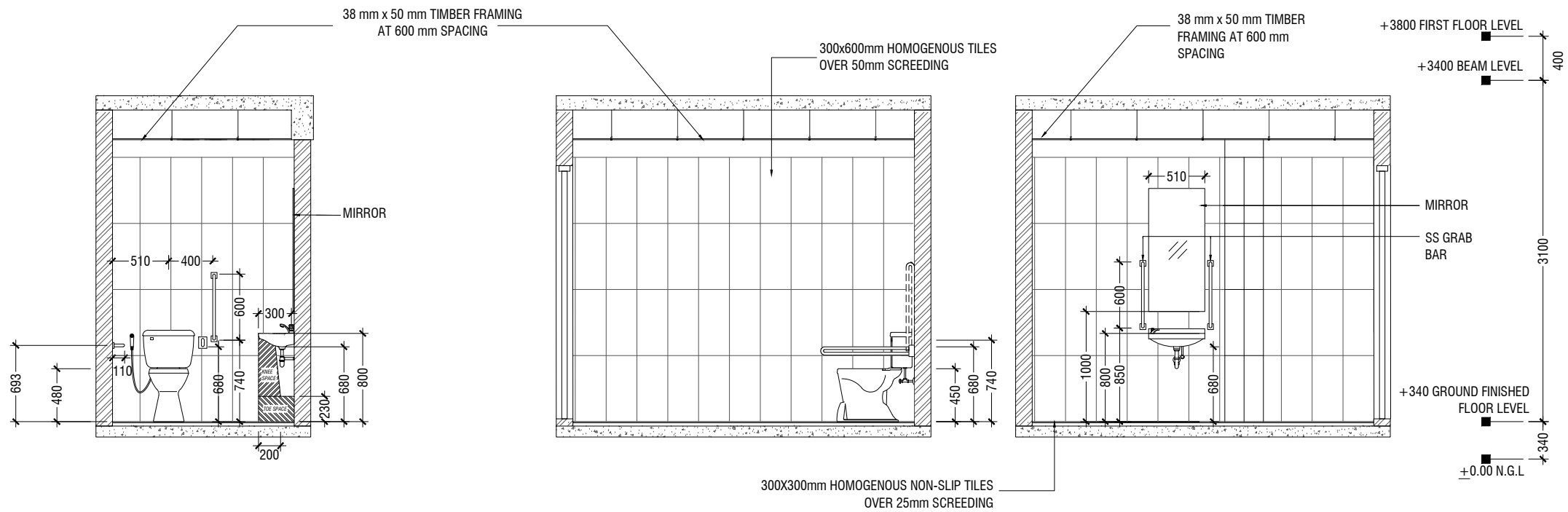
COUNTER TOP DETAILS

SCALE 1:20



TOILET FOR PERSONS WITH DISABILITIES PLAN

SCALE 1:50



SECTION B1-B1

SCALE 1:50

SECTION B2-B2

SCALE 1:50

SECTION B3-B3

SCALE 1:50

NOTE:
ALL THE MATERIALS FOR FIXTURES SHALL BE APPROVED
BY THE ARCHITECT/CONSULTANT BEFORE INSTALLATION

GRAB BARS OF THE DISABLE TOILET SHALL BE AS PER MANUFACTURE'S DETAIL

DETAIL - 4

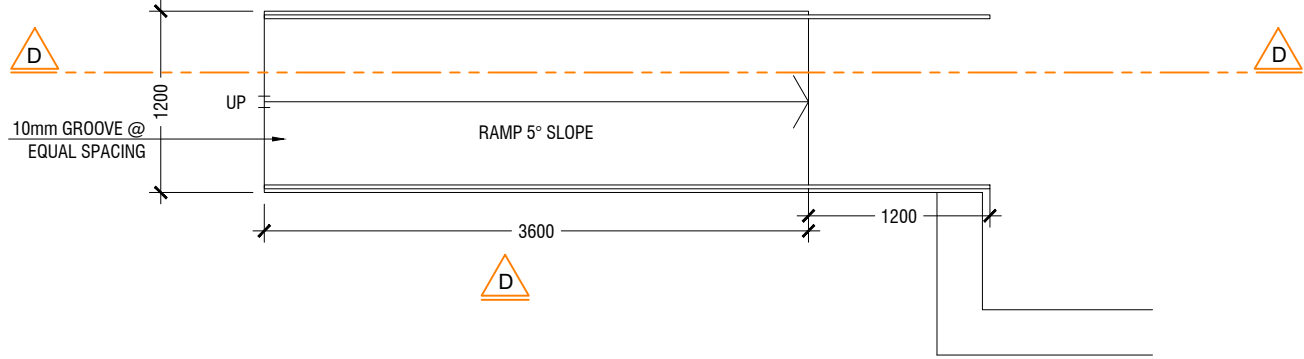
SCALE 1:50



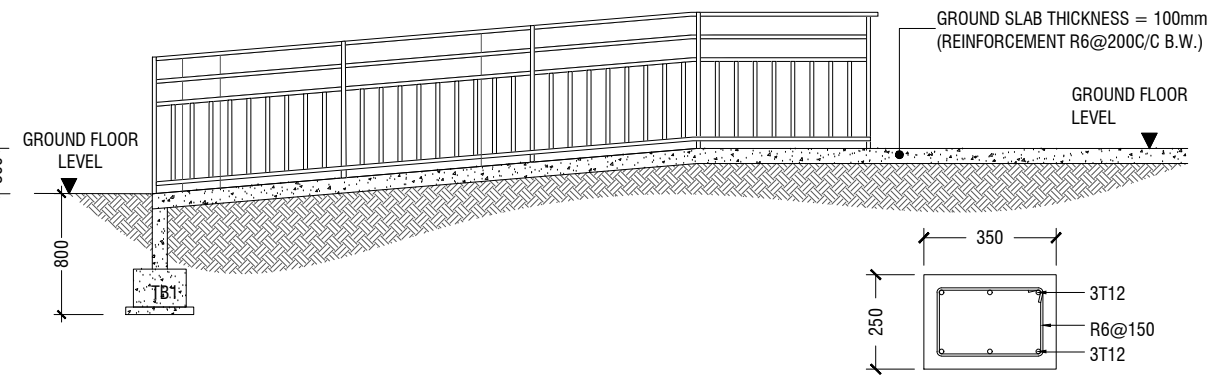
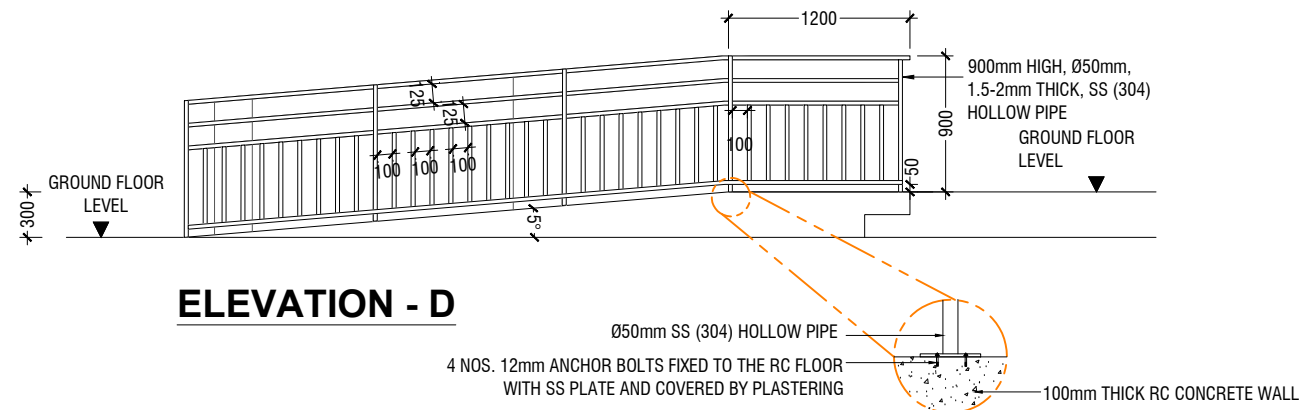
PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |

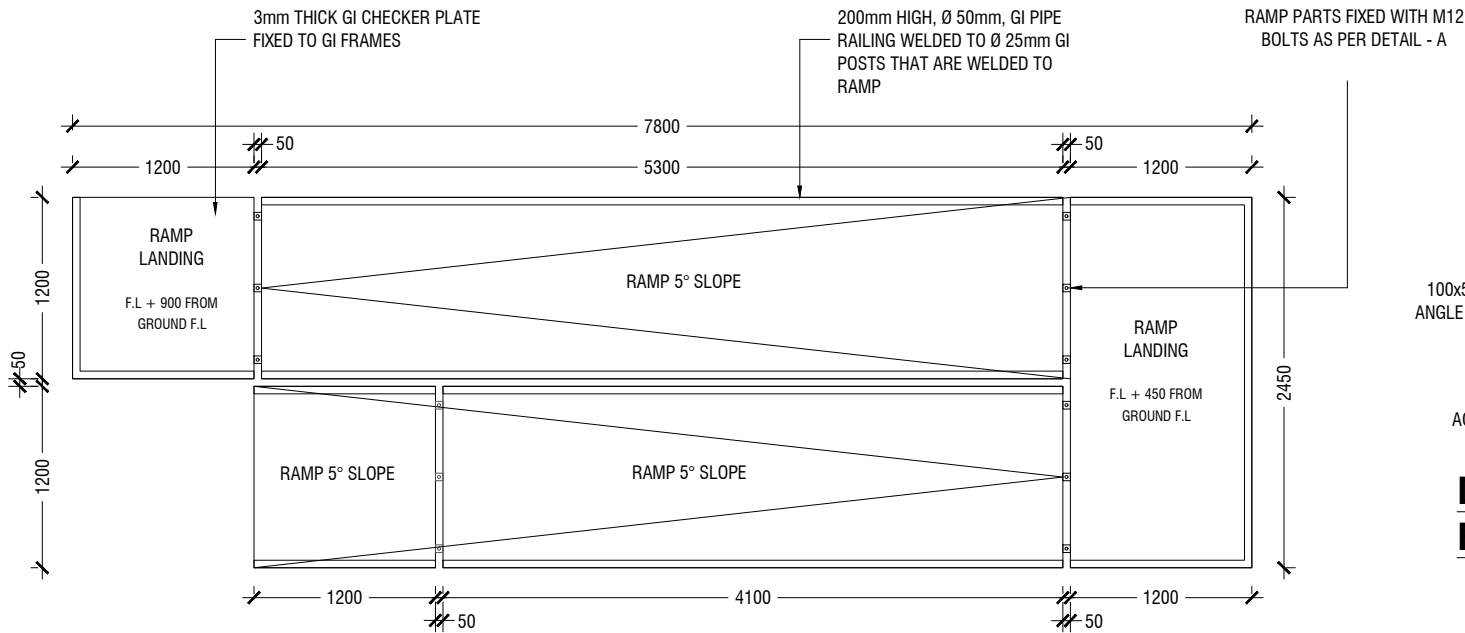
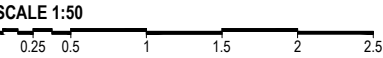


BUILDING ENTRANCE RAMP PLAN

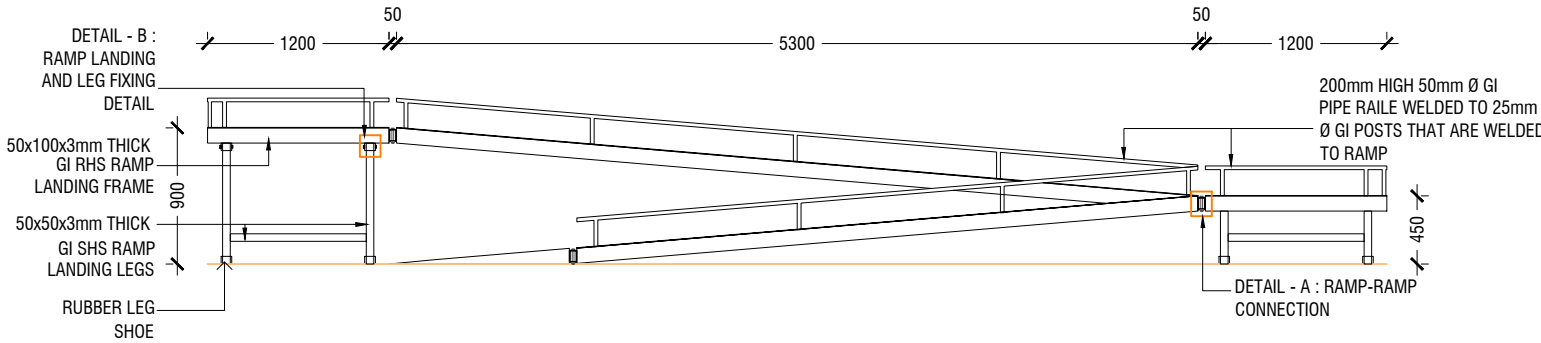


SECTION D-D

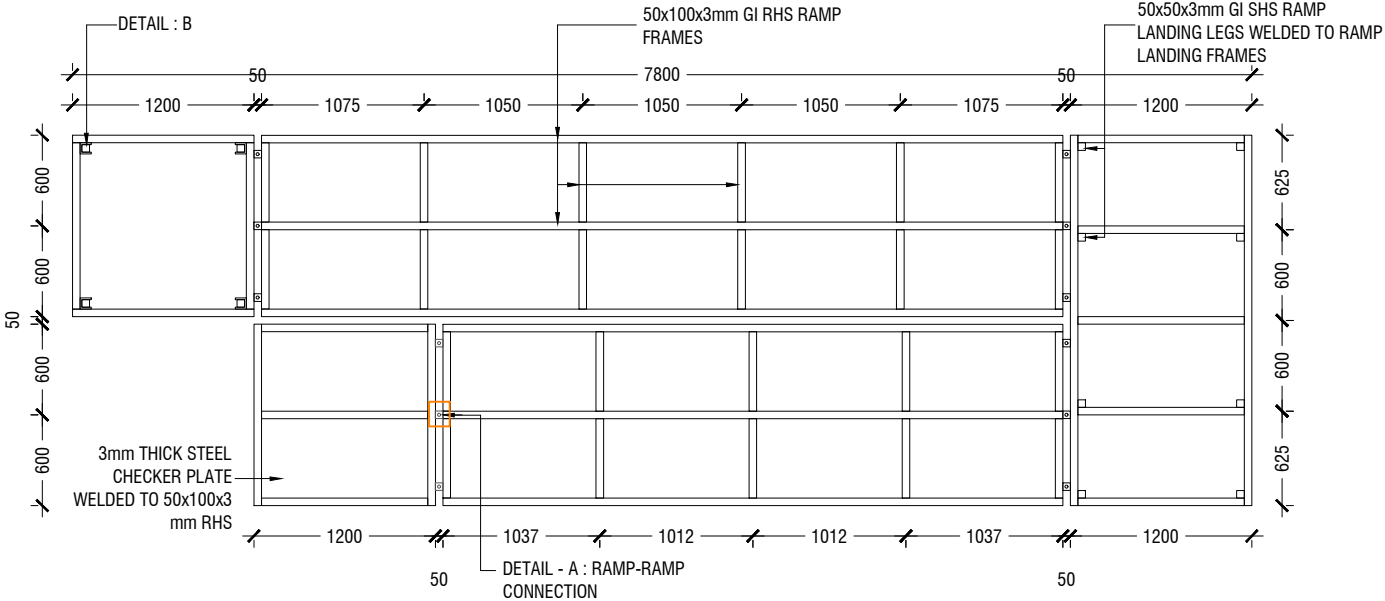
DETAIL - 5 (MAIN ENTRANCE RAMP DETAIL)



STAGE RAMP PLAN

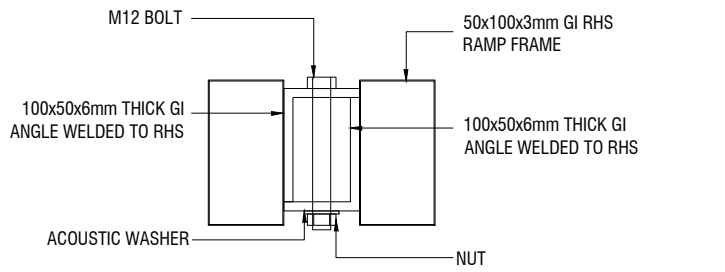
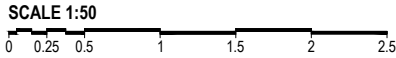


STAGE RAMP - ELEVATION

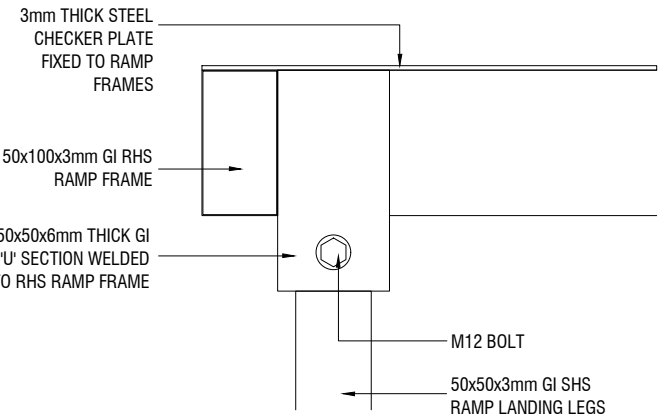


STAGE RAMP - FRAMING PLAN

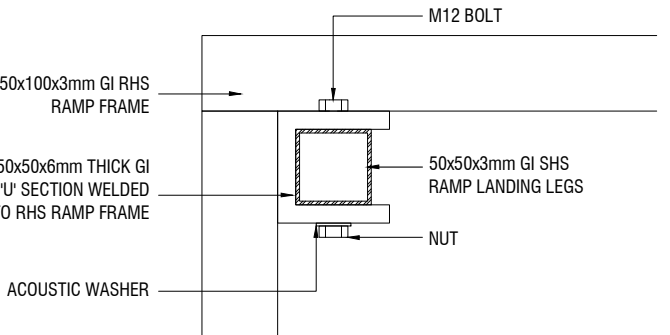
DETAIL - 5 (STAGE RAMP DETAIL)



DETAIL - A
RAMP - RAMP CONNECTION DETAIL

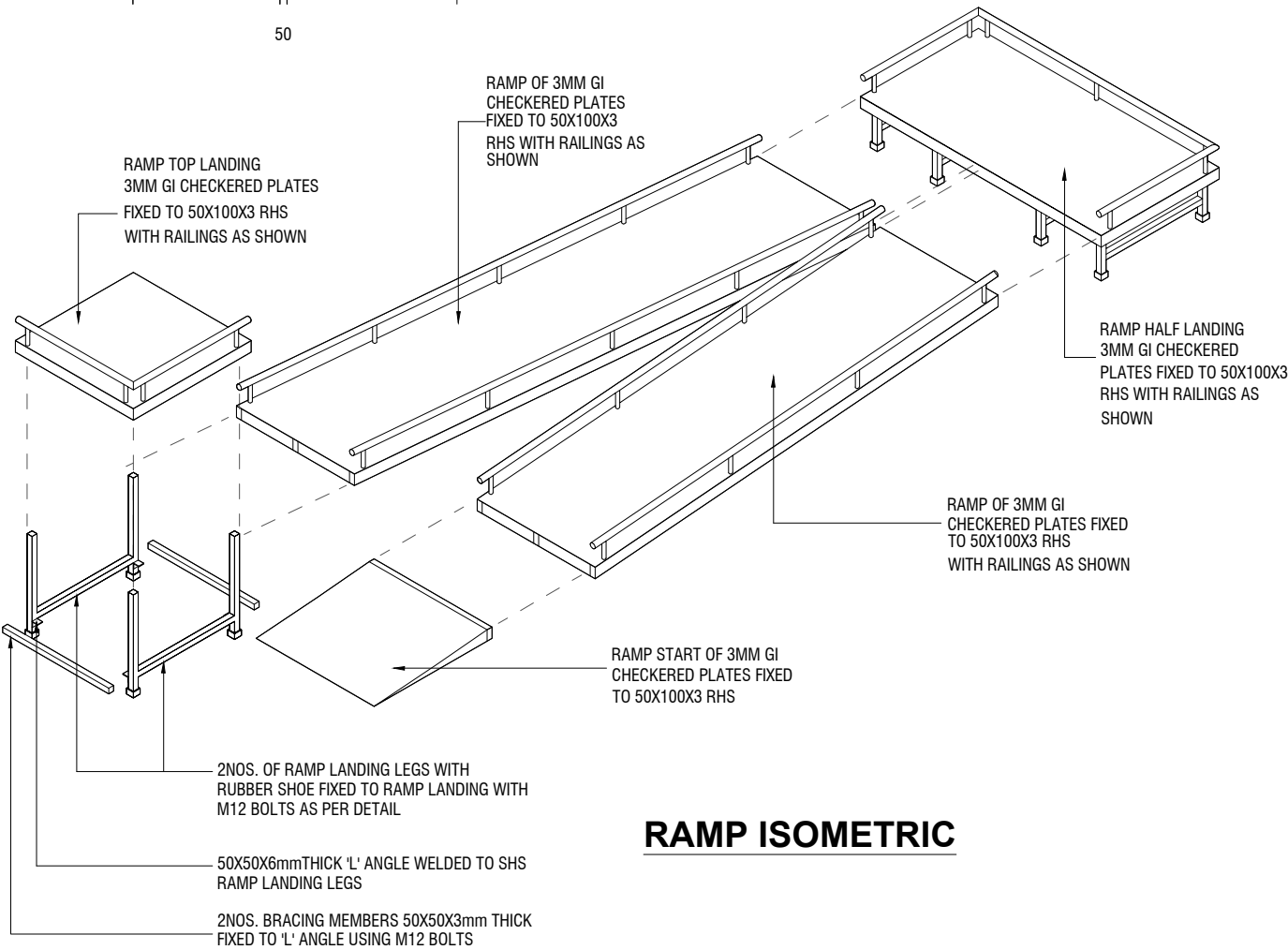


ELEVATION



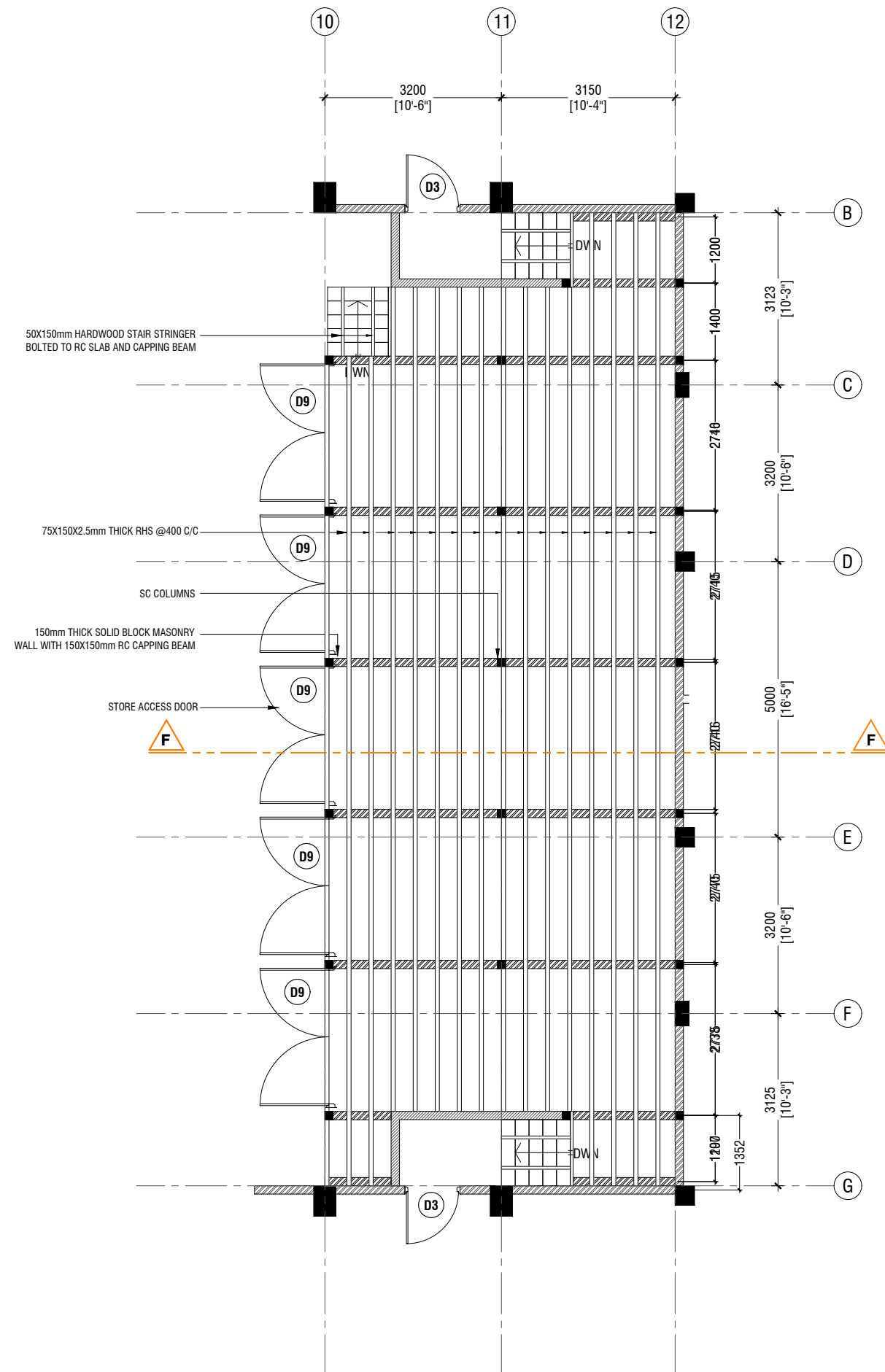
PLAN VIEW

DETAIL B :
RAMP LEG FIXING DETAIL



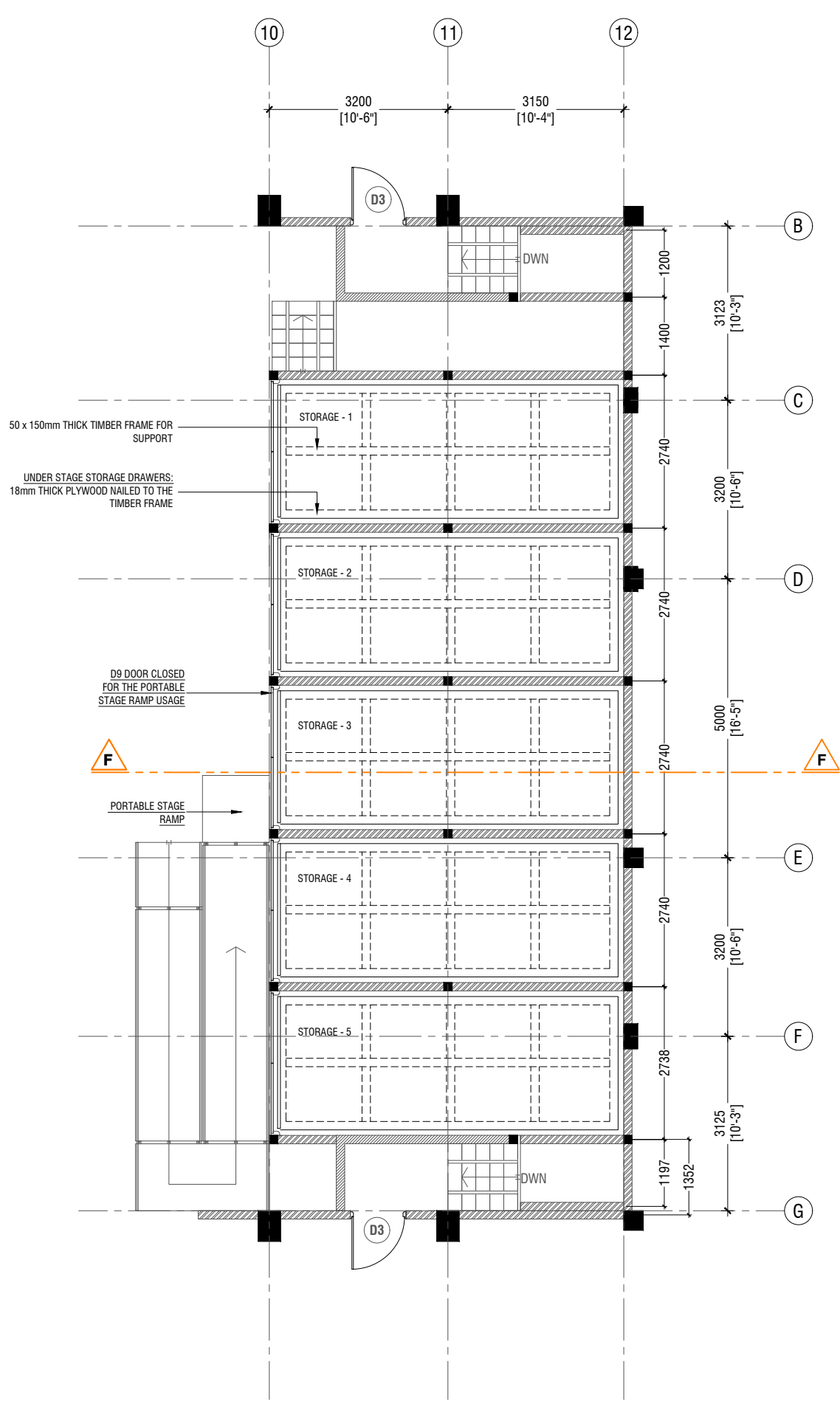
RAMP ISOMETRIC

| | | |
|---|------|-------------|
| | | |
| PROJECT : PROPOSED MULTIPURPOSE HALL & 6 CLASSROOM AT AA. BODUFOLHADHOO SCHOOL | | |
| PROJ. REF : SCALE : AS GIVEN | | |
| ARCHITECT : ENGINEER : DRAWN : CHECKED : | | |
| DATE : 05.03.2023 | | |
| AMMENDMENTS | | |
| Issue | Date | Description |
| | | |
| DWG NO :A20 - 69 | | |



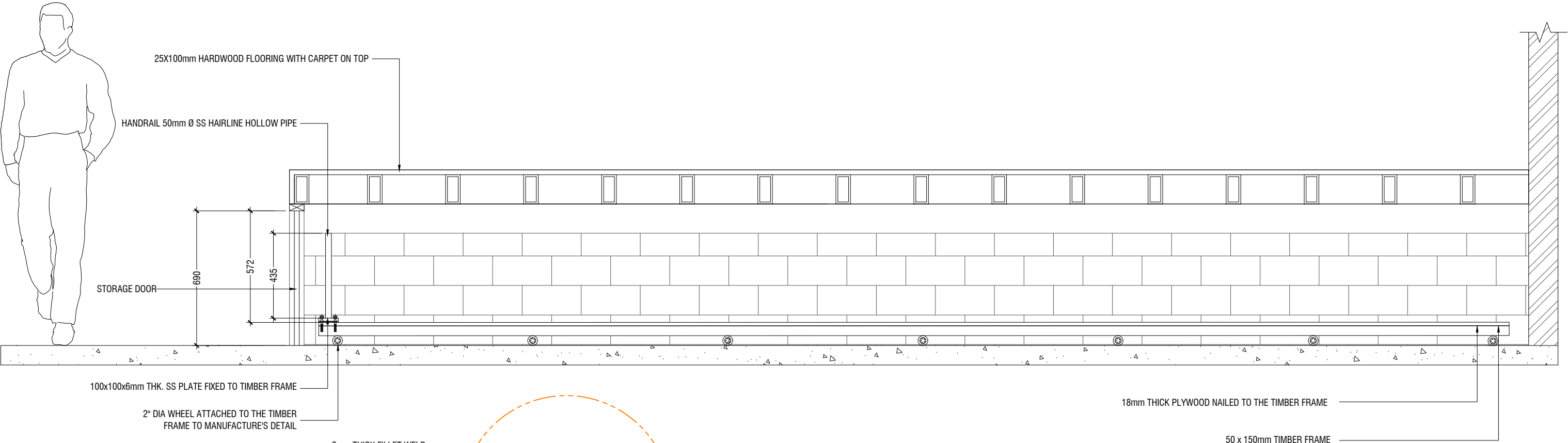
STAGE FRAMING PLAN
SCALE 1:100

**DETAIL - 7
STAGE DETAIL**
SCALE 1:100



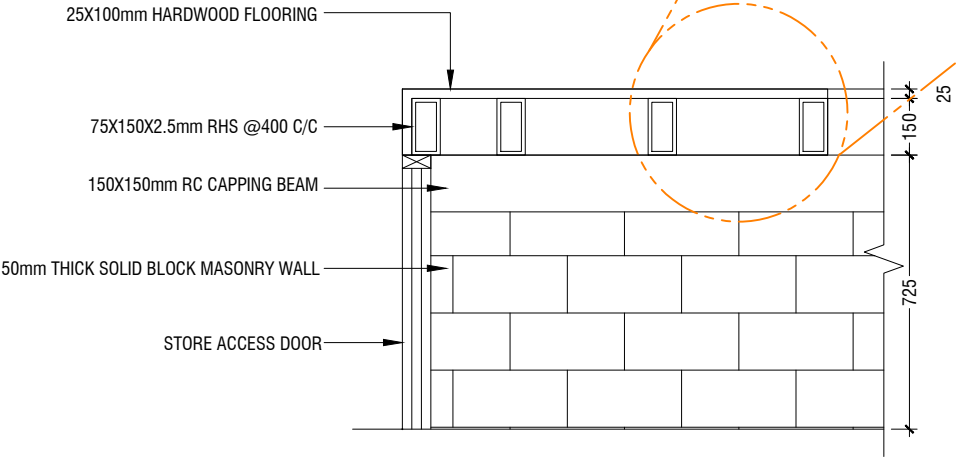
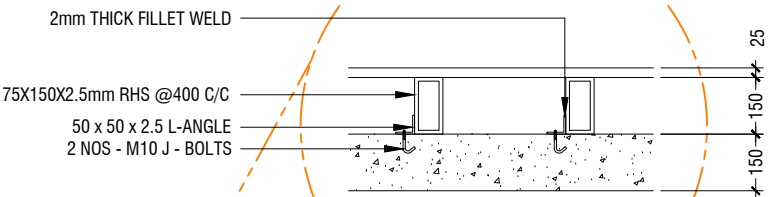
STAGE DRAWERS PLAN
SCALE 1:100

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |



SECTION F-F

SCALE 1:20



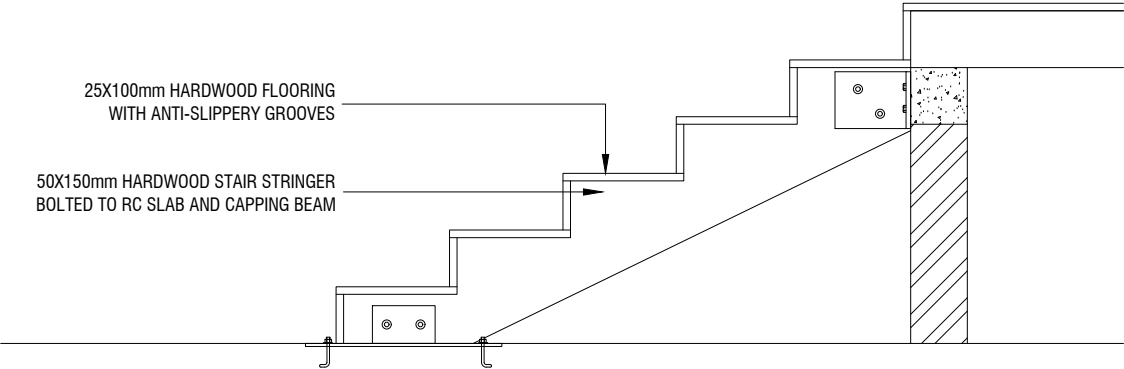
SECTION F-F

SCALE 1:20



STAGE DETAILS


SCALE 1:100



STAIR DETAIL

SCALE 1:20





PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF: _____

SCALE : AS GIVEN

ARCHITECT : _____

ENGINEER : _____

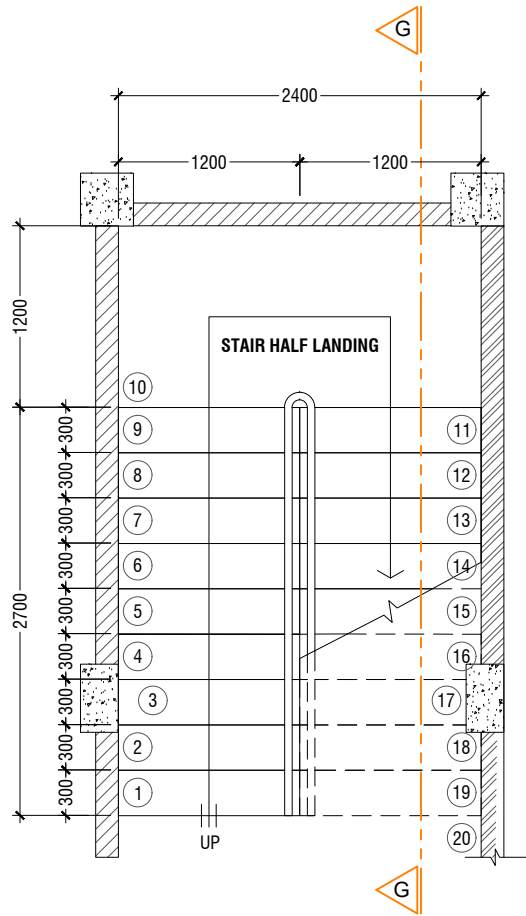
DRAWN : _____

CHECKED : _____

DATE : 05.03.2023

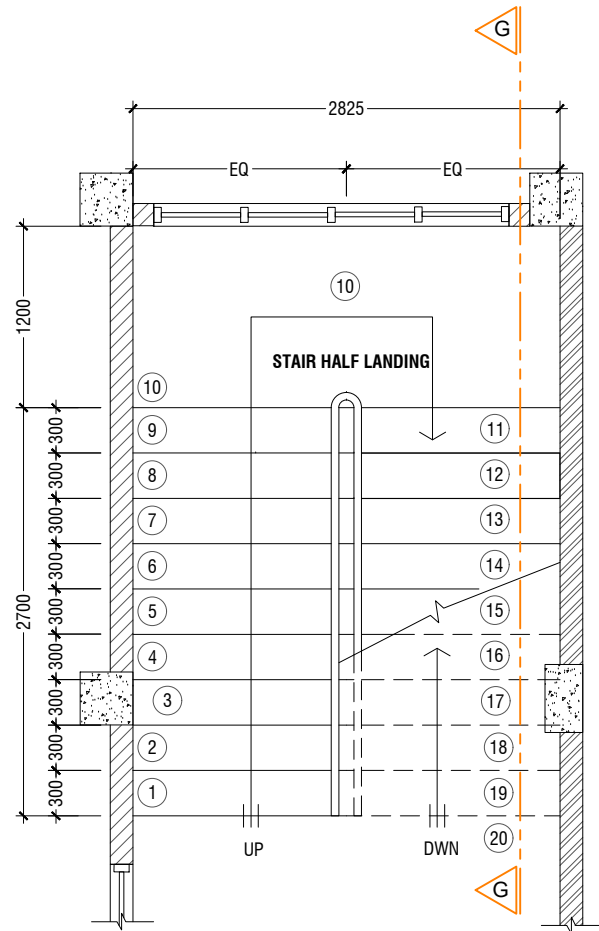
| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |

DWG NO :A22 - 69



TYPE - 1 PLAN VIEW

SCALE 1:50

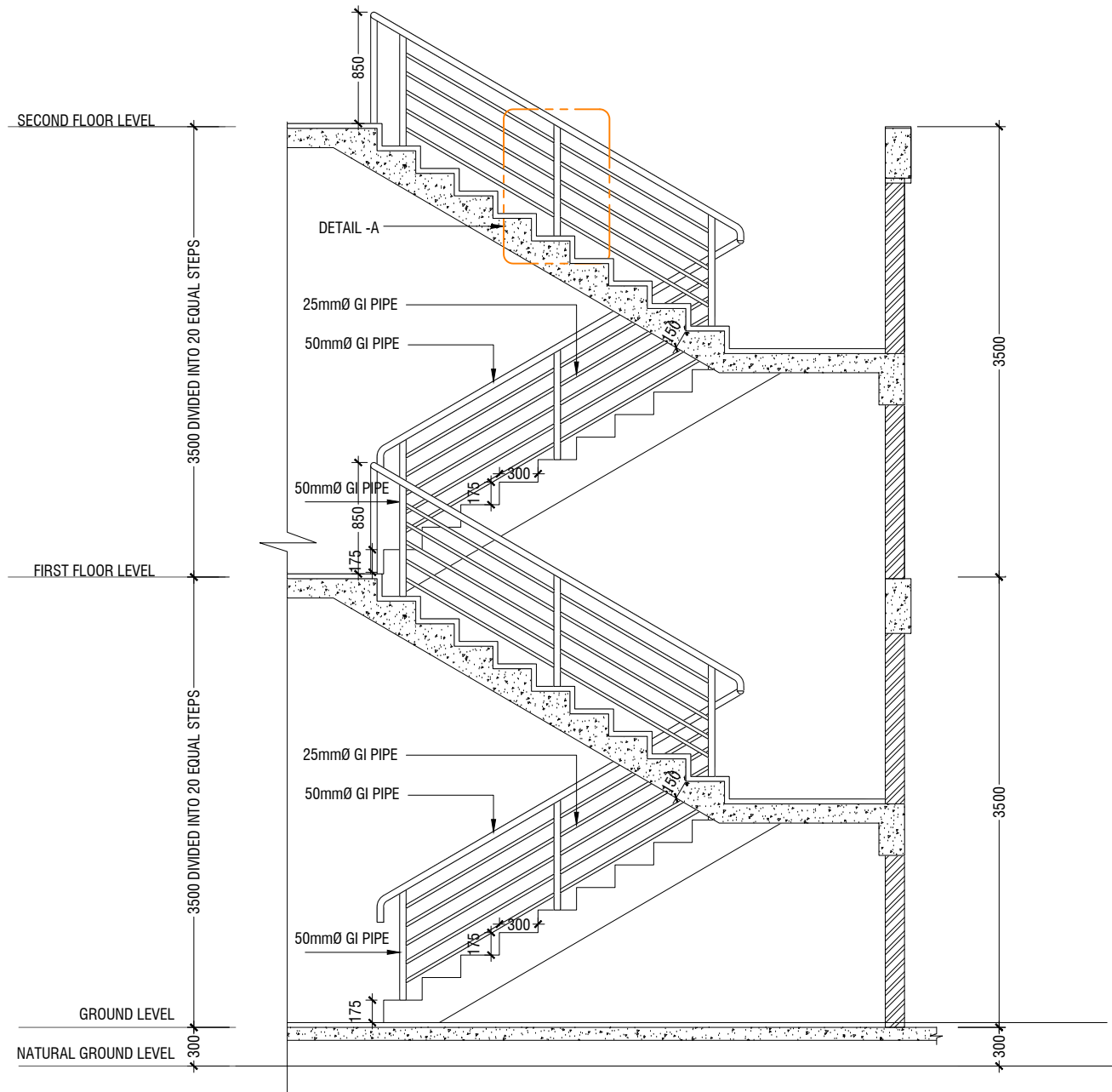


TYPE - 2 PLAN VIEW

SCALE 1:50

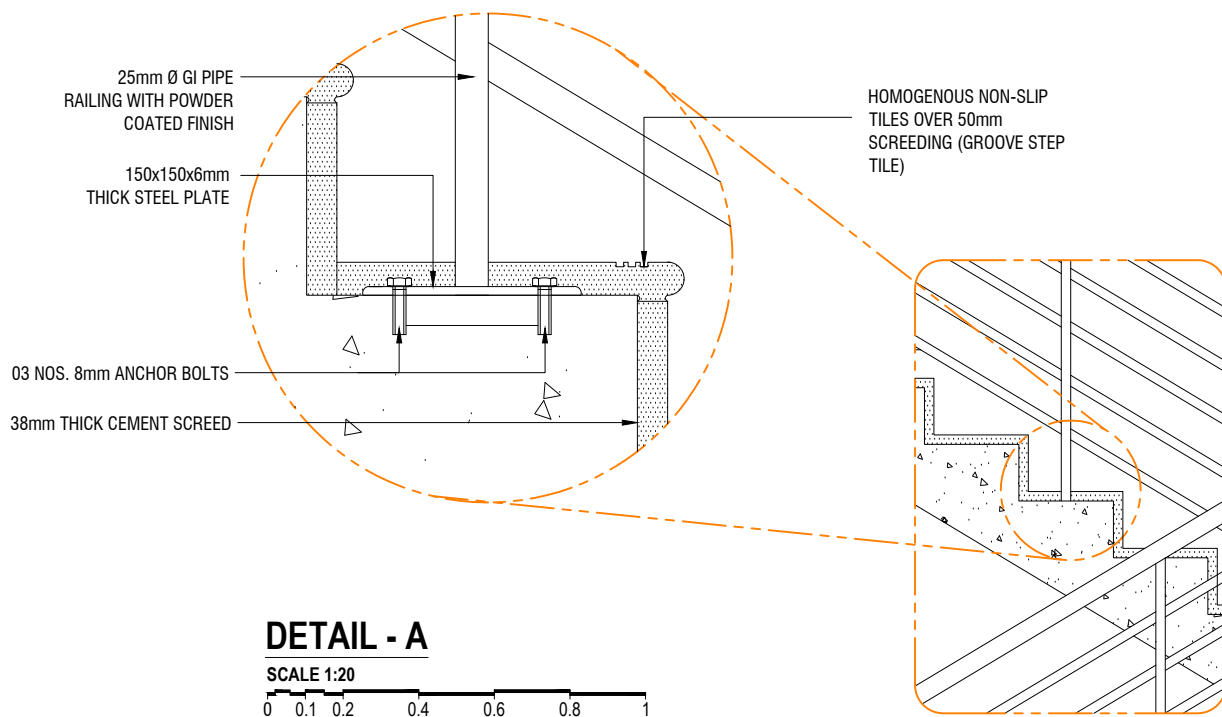


GROUND - SECOND FLOOR
RISER: 175mm
THREAD: 300mm



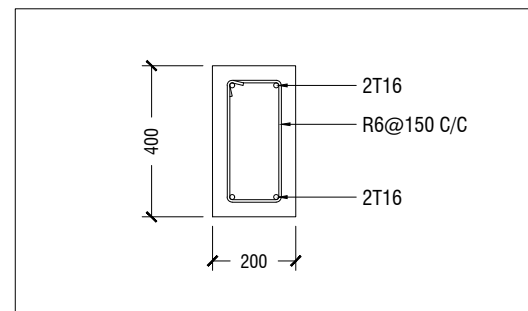
SECTION G - G

SCALE 1:50



DETAIL - A

SCALE 1:20



STAIR HALF LANDING BEAM (HB)

SCALE 1:20



DETAIL - 8 (MAIN STAIRCASE DETAILS)

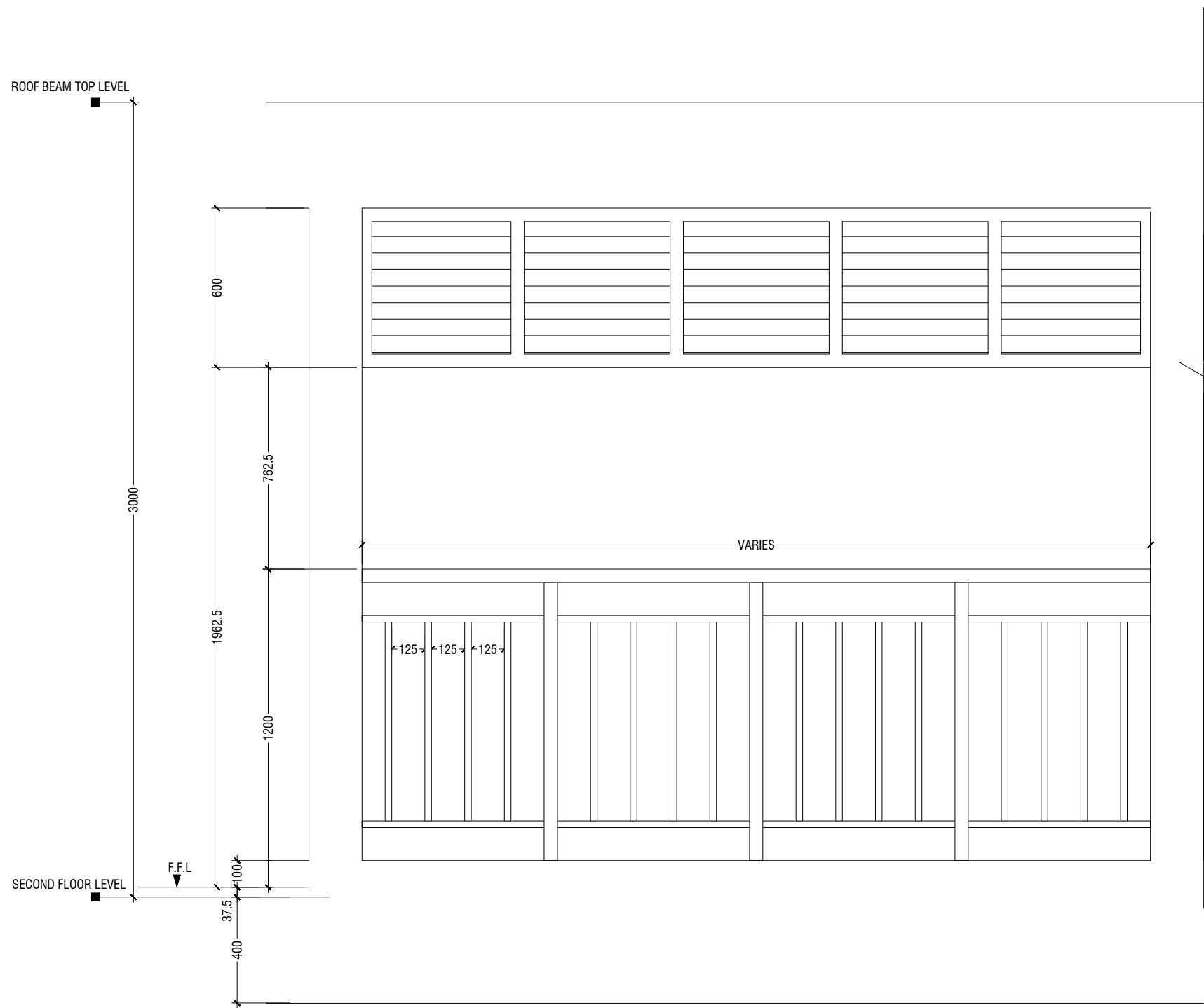
SCALE 1:50



PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

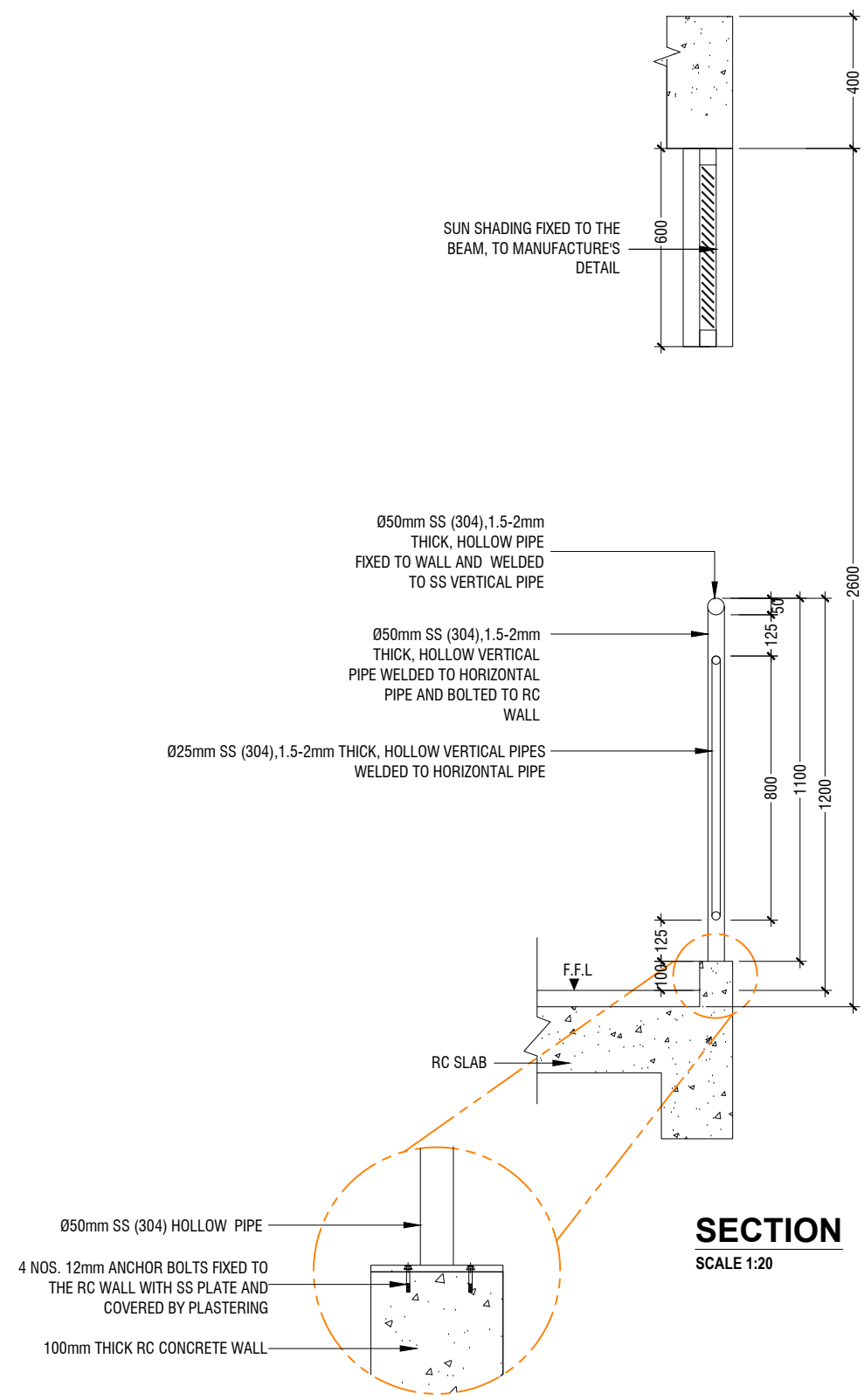
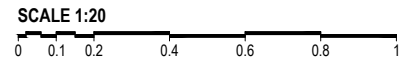
PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |

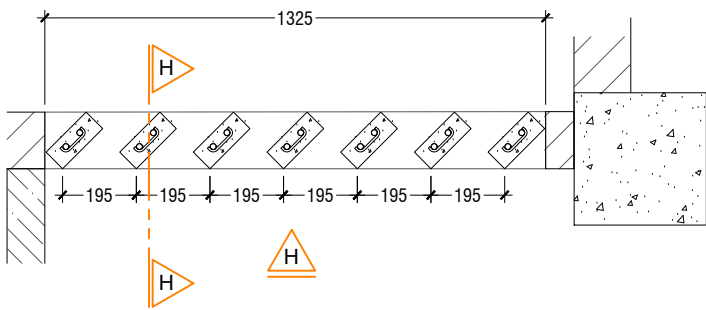


ELEVATION
SCALE 1:20

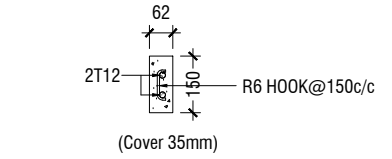
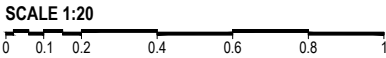
DETAIL - 9 (SECOND FLOOR BALCONY RAILING DETAIL)



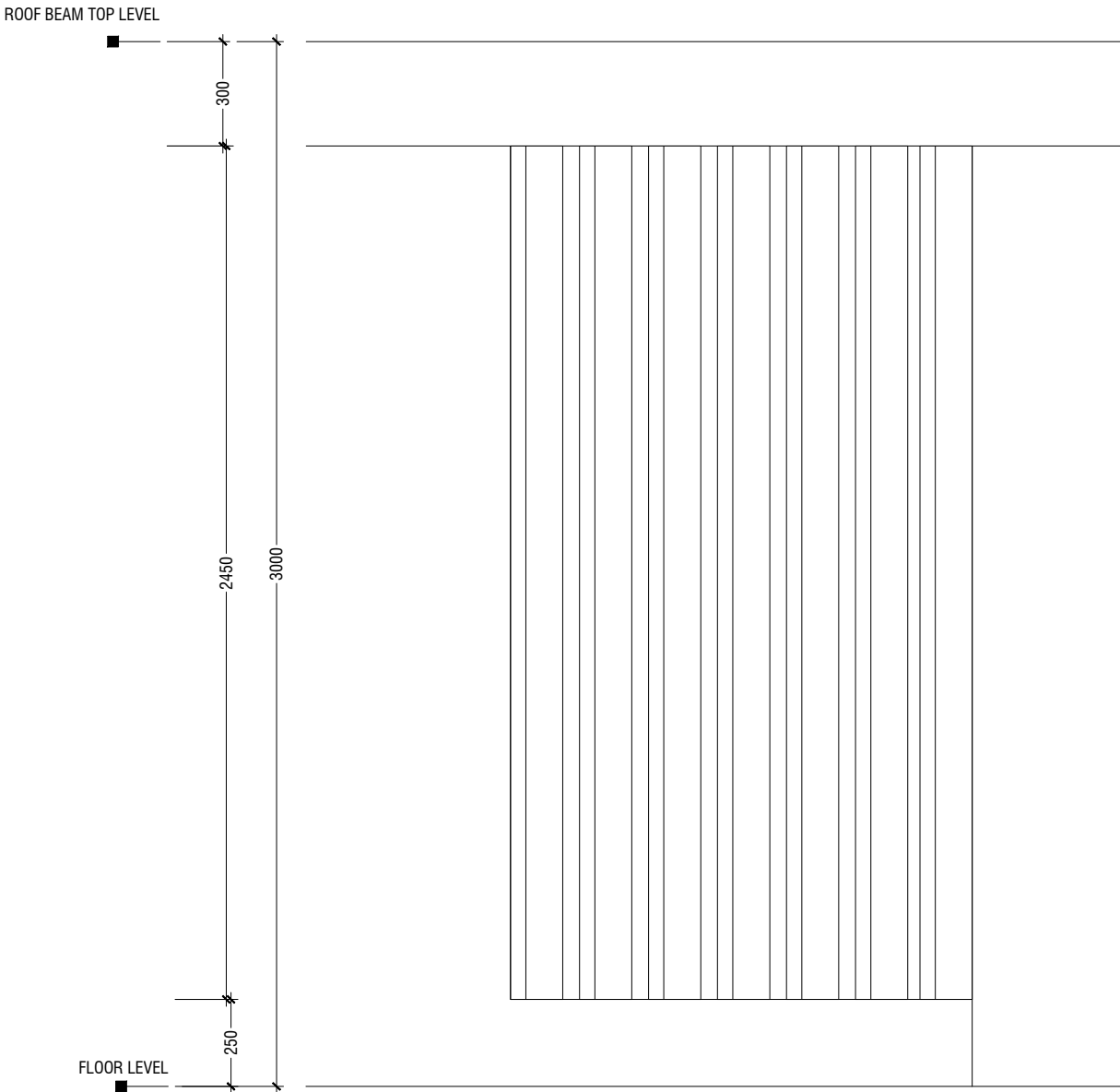
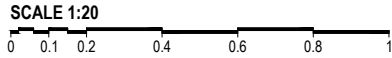
SECTION
SCALE 1:20



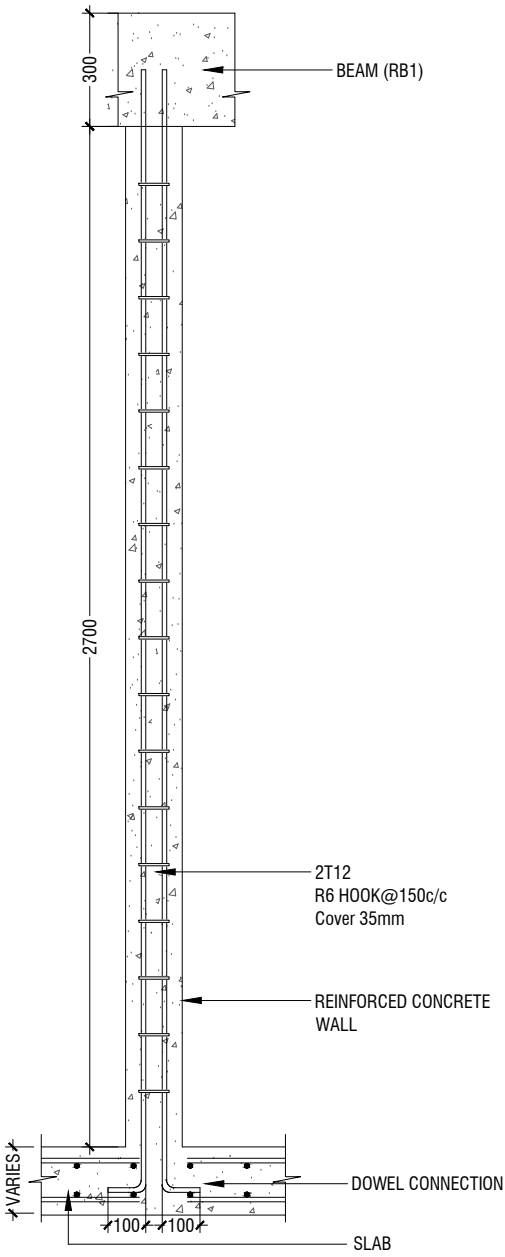
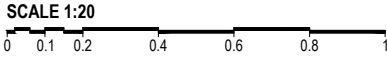
PLAN VIEW



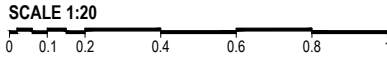
RC FIN DETAIL



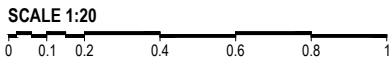
ELEVATION - H



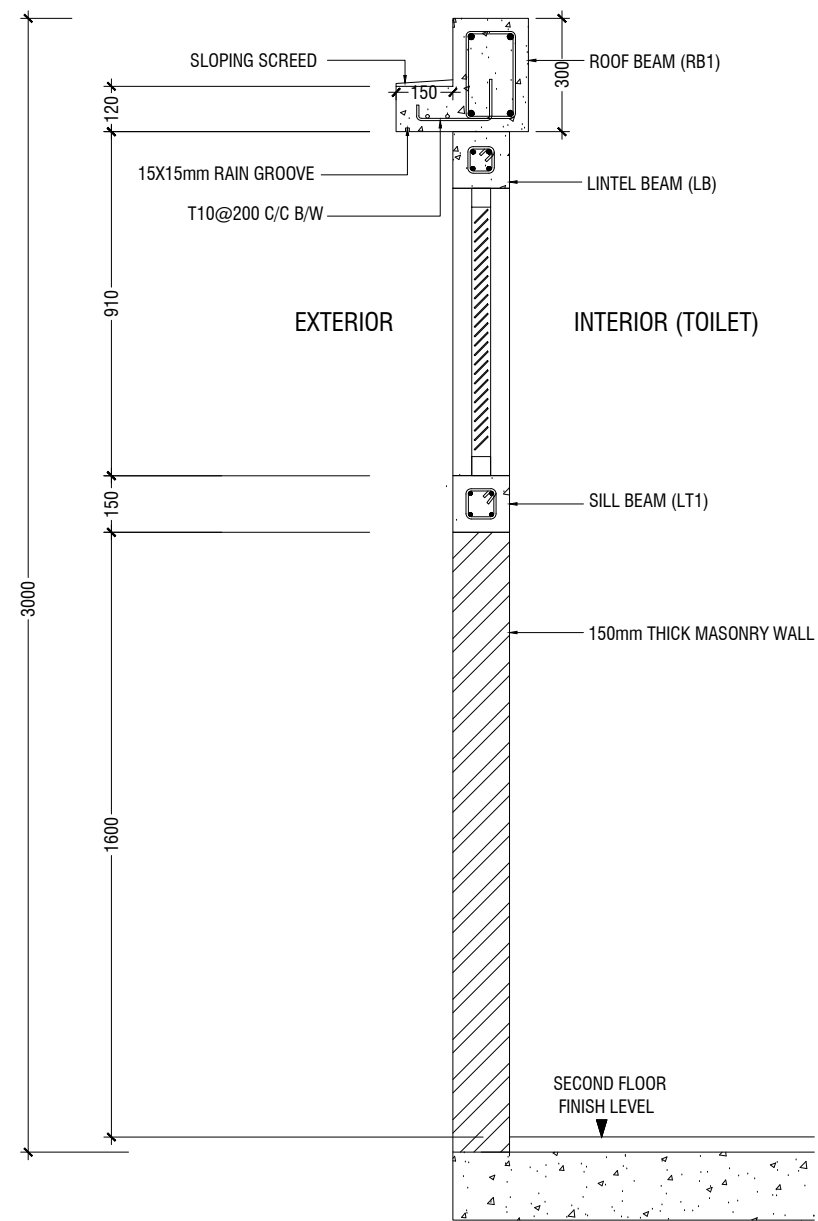
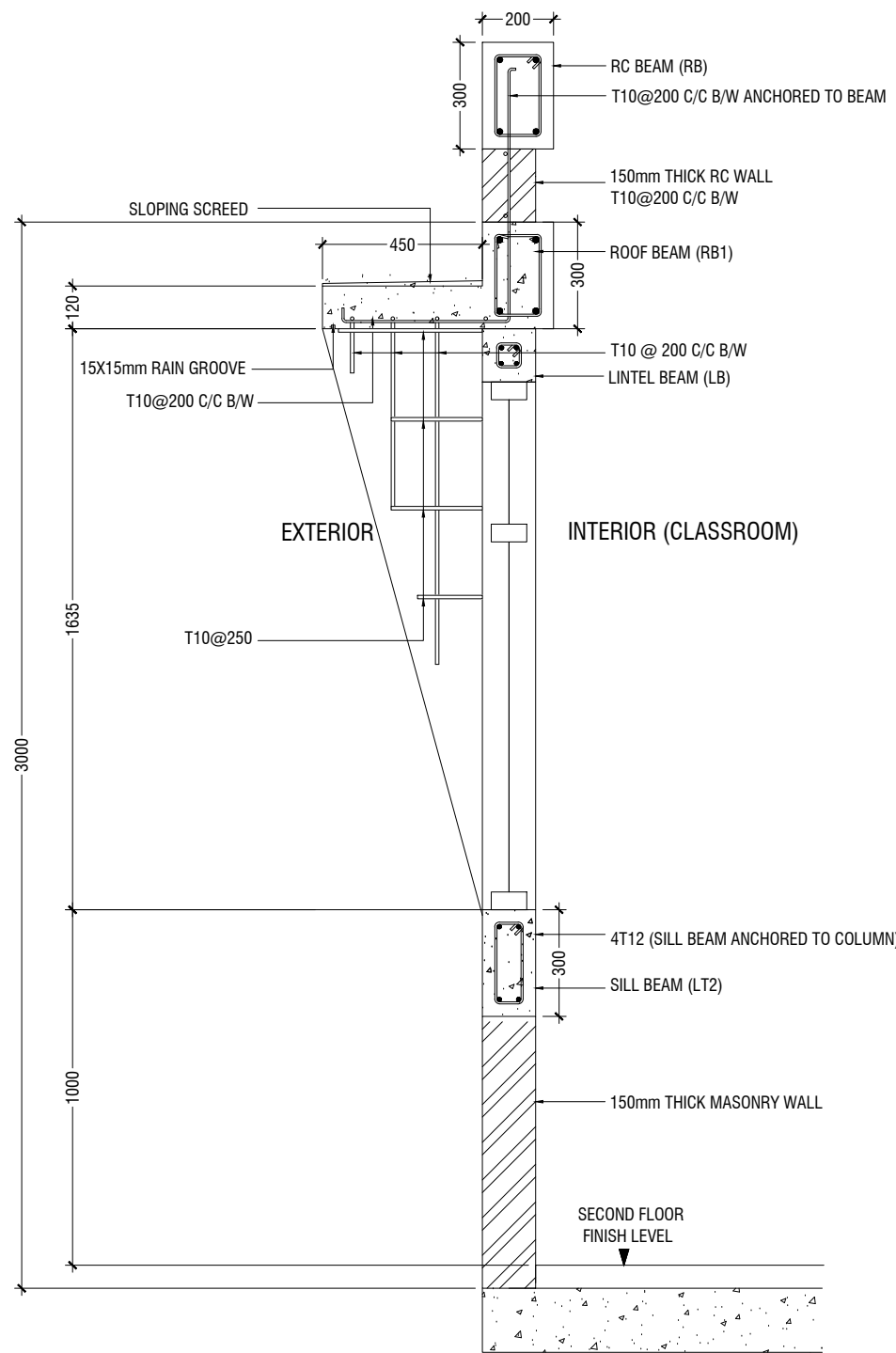
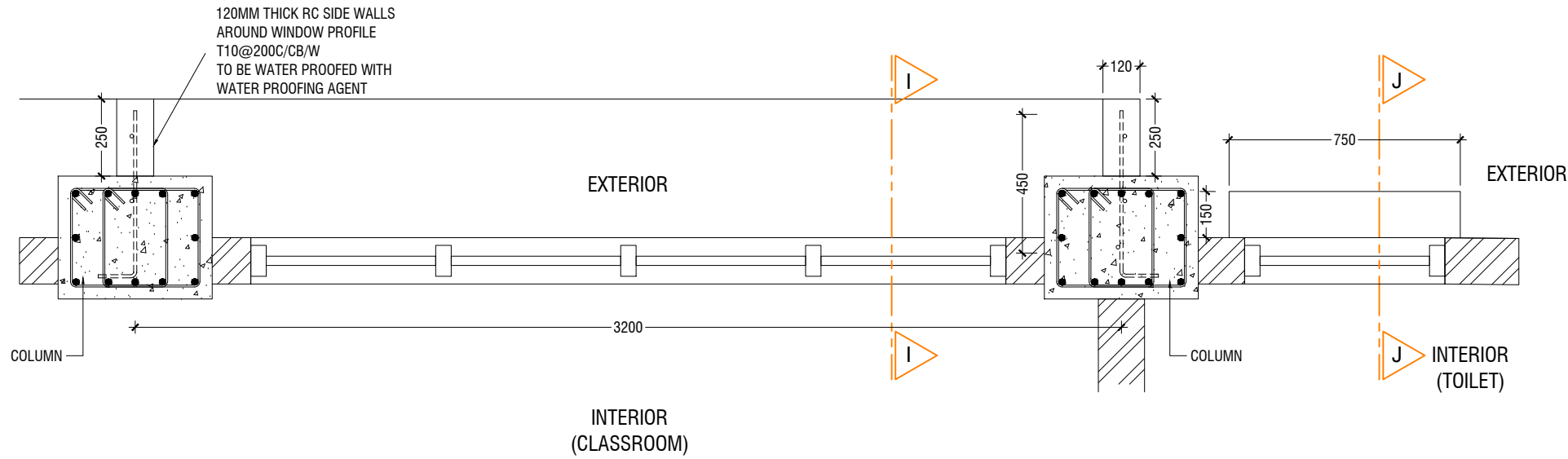
SECTION H-H



DETAIL - 10 (RC FINS DETAIL @ SECOND FLOOR TOILET)



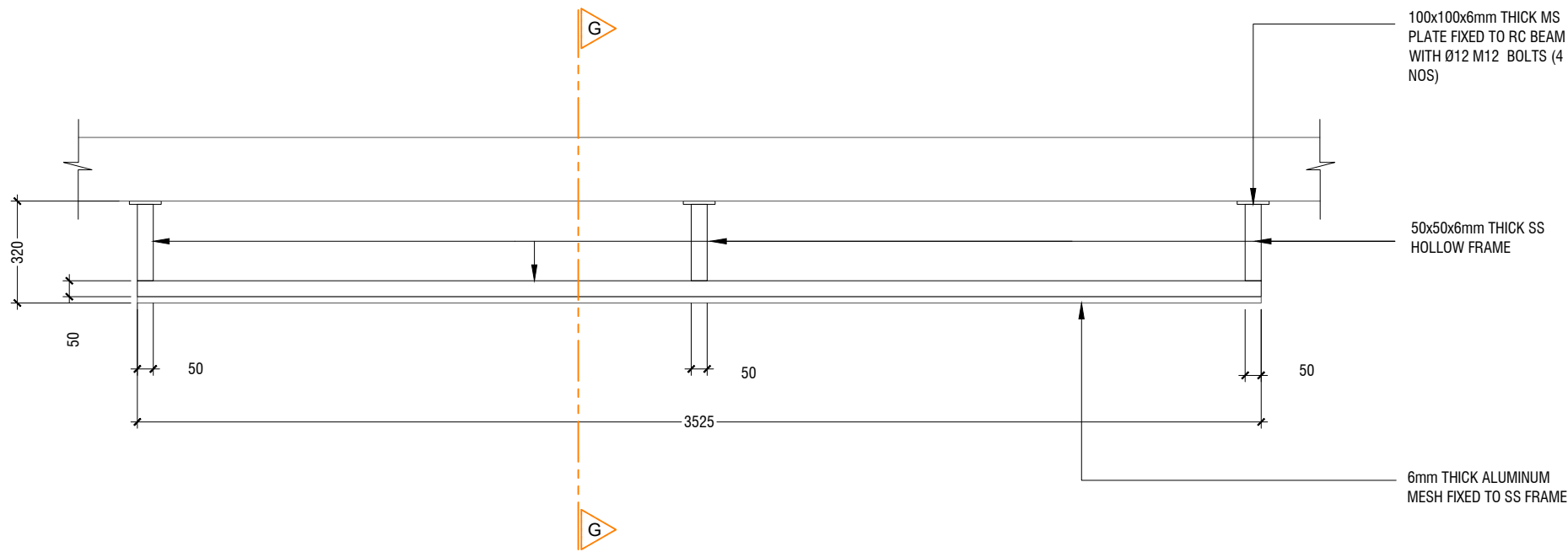
| | | |
|--|------|-------------|
| | | |
| PROJECT : PROPOSED MULTIPURPOSE HALL & 6 CLASSROOM AT AA. BODUFOLHADHOO SCHOOL | | |
| PROJ. REF: _____ | | |
| SCALE : AS GIVEN | | |
| ARCHITECT : _____ | | |
| ENGINEER : _____ | | |
| DRAWN : _____ | | |
| CHECKED : _____ | | |
| DATE : 05.03.2023 | | |
| AMMENDMENTS | | |
| Issue | Date | Description |
| | | |
| | | |
| DWG NO :A25 - 69 | | |



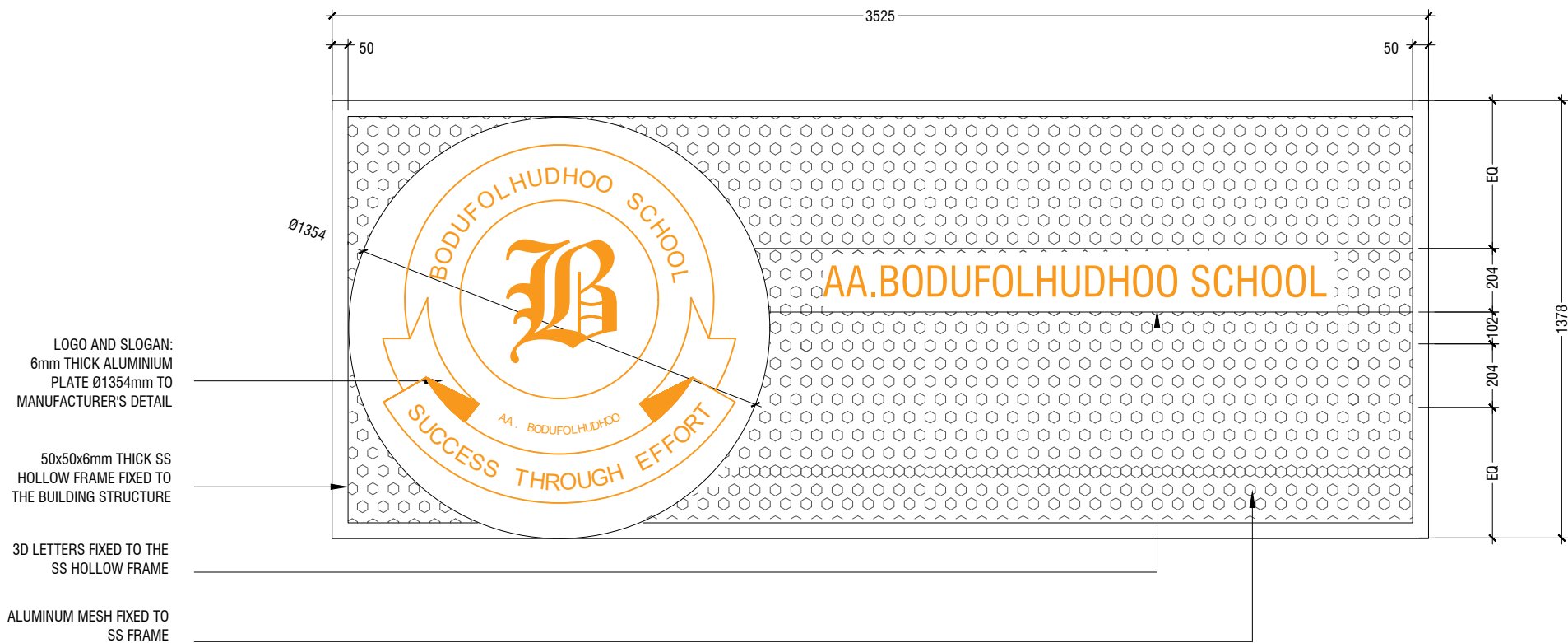
DETAIL - 11 (RC WALL DETAIL)

SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1



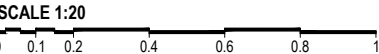
PLAN



ELEVATION

NOTE: IN SELECTING COLOR SHADES, REFER TO THE OFFICIAL COLOR THEME OF AA.UKULHAS SCHOOL.

DETAIL - 12 (NAME BOARD DETAIL)



PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |

GENERAL NOTES

THE GENERAL NOTES SHALL BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS AND DRAWINGS. REGARDLESS OF WHETHER OR NOT SHOWN IN DRAWINGS OR OTHER TENDER DOCUMENTS, THE STANDARD PROVISIONS SPECIFIED HEREUNDER FOR COMPLIANCE BY THE CONTRACTOR SHALL APPLY TO ALL RELEVANT PORTIONS OF THE STRUCTURAL WORKS AND SHALL FORM PART OF THIS CONTRACT.

1.0 VERIFICATION OF DIMENSIONS AND LEVELS

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LEVELS ON SITE, AND RESOLVE ALL DISCREPANCIES WITH THE ARCHITECT OR ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- DRAWING INDICATES GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE OF SIMILAR CHARACTER TO DETAILS SHOWN AND ALTHOUGH NOT SPECIFICALLY INDICATED, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECTED TO REVIEW BY THE ENGINEER.
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LEVELS IN THE CONTRACT DRAWINGS.
- DISCREPANCIES IN DRAWINGS ARISING FROM SUCH VERIFICATION WORKS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.

2.0 SHOP DRAWINGS

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING TOTAL COORDINATION OF ALL WORKS AND SHALL TAKE SITE MEASUREMENTS PRIOR TO THE PREPARATION OF ANY SHOP DRAWINGS OR BEFORE COMMENCING FABRICATION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL SPECIALIST TRADES, SUCH AS PRESTRESSING, CURTAIN WALLING, ETC. FOR REVIEWS AND COMMENTS BY THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK. SUCH SHOP DRAWINGS SUBMITTED SHALL INCORPORATE ALL NECESSARY CONNECTION DETAILS TO THE STRUCTURAL MEMBERS SUCH AS CAST-IN INSERTS, EMBEDDED PLATES, ETC.

3.0 INCORPORATION OF M&E REQUIREMENTS IN THE STRUCTURE

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING TOTAL COORDINATION OF STRUCTURAL, M & E PENETRATION DRAWINGS OF SERVICES AND SUBMIT SUCH SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEWS AND APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- THESE SHOP DRAWINGS SHALL INCORPORATE ALL MECHANICAL, ELECTRICAL AND SANITARY WORKS TO BE EMBEDDED IN CONCRETE AND ALL OPENINGS FOR ALL PIPE OR DUCT WORKS, BASED ON THE REQUIREMENTS OF M & E DRAWINGS IN HIS POSSESSION.
- HE SHALL CHECK AND RESOLVE ALL DISCREPANCIES WITH THE RESPECTIVE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

4.0 LEAN CONCRETE FOR SUSPENDED STRUCTURES

- UNLESS OTHERWISE STATED, 50 MM THICK LEAN CONCRETE WITH A MINIMUM 28-DAY CUBE STRENGTH OF 15N/MM2 SHALL BE PROVIDED ON ALL SOIL SURFACES FORMING THE UNDERSIDE OF STRUCTURAL CONCRETE MEMBERS.

5.0 STRUCTURAL ELEMENTS ON GRADE

- UNLESS OTHERWISE STATED, A SINGLE LAYER OF 0.25 MM(HEAVY DUTY) POLYTHENE SHEET, OR EQUIVALENT THERMOPLASTIC MATERIAL, LAID OVER A COMPACTED 60 MM THICK LAYER OF HARD CORE BLINDED WITH SAND TO PREVENT GROUT LOSS FROM SEEPAGE INTO THE GROUND SHALL BE PROVIDED ON ALL SOIL SURFACES FORMING THE UNDERSIDE OF THE NON-SUSPENDED SLABS.

6.0 SUBGRADE UNDER STRUCTURAL ELEMENTS

- WHERE THE CONTRACTOR REQUIRES REMOVAL AND SUBSEQUENT BACKFILL OF SUBGRADE PRIOR TO CASTING OF PILECAP/WALL/BEAM/SLAB, HE SHALL ENSURE THAT THE BACKFILL IS OF APPROVED MATERIAL AND THAT THE BACKFILL SHALL BE REASONABLY COMPACTED TO ENSURE THAT THE COMPACTED SOIL IS ABLE TO WITHSTAND THE WEIGHT OF THE WET CONCRETE. THE CONTRACTOR SHALL EXERCISE PROPER SKILL AND CARE TO AVOID DAMAGE TO ADJACENT INSTALLED STRUCTURES ARISING FROM HIS CONSTRUCTION SEQUENCE.

7.0 WATERPROOFING FOR STRUCTURES

- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND METHOD STATEMENTS FOR THE ENGINEER'S APPROVAL PRIOR TO COMMENCEMENT OF WORK. REQUIRED SHOP DRAWING DETAILS INCLUDE BUT ARE NOT LIMITED TO TREATMENT OF FLASHINGS, WATERSTOP AT CONSTRUCTION JOINTS, WALL AND SLAB PENETRATIONS.
- ALL PENETRATIONS THROUGH STRUCTURAL ELEMENTS SHALL BE CAST-IN, SLEEVED AND PROVIDED WITH APPROVED PUDDLE FLANGE DETAIL. IF FOR ANY REASON THE CONTRACTOR IS UNABLE TO LAY WATERSTOP AT CONSTRUCTION JOINTS AS INDICATED IN THE DRAWINGS, HE SHALL AT HIS OWN EXPENSES PROVIDE ADEQUATE GROUT TUBES FOR WATERPROOF PRESSURE GROUTING TO ENSURE WATERTIGHTNESS OF THE JOINT.
- ALL GROUT TUBES SHALL BE MARKED AND PROTECTED FROM BLOCKAGE.
- BACKFILLING OPERATIONS AGAINST VERTICAL SURFACE SHALL BE CARRIED OUT AS SOON AS THE WATERPROOFING BARRIER IS INSTALLED TO THE SATISFACTION OF THE ENGINEER.

8.0 CASTING LAYERS

- INCLINED CASTING LAYERS AND INCLINED CONSTRUCTION JOINTS SHALL BE AVOIDED.
- HORIZONTAL CASTING LAYERS SHALL NOT IN GENERAL EXCEED 0.6 M THICKNESS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

9.0 FOUNDATIONS

- ALL FOUNDATIONS HAS BEEN DESIGNED FOR SAFE GROUND PRESSURE OF 150 KN/M.
- ALL BACKFILL SHOULD BE DONE WITH MATERIALS APPROVED BY THE CONSULTANT AND SOURCE. ALL BACKFILL SHOULD BE STRUCTURAL FILL, COMPACTED IN LAYERS AS SPECIFIED.
- WEAK POCKETS FOUND BELOW THE ASSUMED FOUNDATION LEVELS SHALL BE REMOVED AND REPLACED BY PLAIN CONCRETE.
- IN CASE OF EXCAVATIONS BELOW THE ASSUMED LEVEL OF THE FOUNDATION, THE SOIL SHALL BE REPLACED BY PLAIN CONCRETE.
- IN CASE GROUND WATER IS PRESENT ABOVE FOUNDATION LEVEL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING THE BELOW LEVEL OF FOUNDATIONS.
- THE CONTRACTOR SHALL MAINTAIN DRY WORKING CONDITIONS THROUGH OUT THE CONSTRUCTION PERIOD. RESTORING WATER TABLE CAN BE DONE AFTER BACKFILLING AND COMPACTION UP TO THE SLAB ON GRADE LEVEL, OR AS DIRECTED BY THE ENGINEER.
- NO BACK FILLING SHALL BE PLACED AGAINST WALLS RETAINING EARTH, UNLESS THE WALLS ACHIEVE SUFFICIENT STRENGTH TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE.

10.0 CONSTRUCTION LOAD AND SHORING

- CONSTRUCTION LIVE LOAD IMPOSED ON ANY SINGLE FLOOR SHALL NOT EXCEED 1.5 KN/M2. UNLESS OTHERWISE APPROVED BY THE ENGINEER, DEAD LOAD OF THE TOP CONSTRUCTION FLOOR SHALL BE SUPPORTED BY TWO COMPLETED FLOORS DIRECTLY BELOW IT.
- PROPS TO BEAMS AND SLABS AT ANY FLOORS SHALL NOT BE REMOVED UNTIL THE TWO IMMEDIATE FLOORS ABOVE THAT LEVEL ARE CAPABLE OF SUPPORTING THEMSELVES AS WELL AS ANY LOADS IMPOSED DURING CONSTRUCTION. CONSIDERATIONS GOVERNING REMOVAL OF PROPS INCLUDE BUT ARE NOT LIMITED TO THE ATTAINMENT OF 28-DAY STRENGTH FOR THE CONCRETE, DESIGN LOAD CAPACITY OF THE FLOOR UNDER REVIEW AND THE COMPLETION OF PRESTRESSING AND GROUTING OPERATIONS IN THE CASE OF A PRESTRESSED STRUCTURAL FLOOR SYSTEM.

- PROPS SHALL BE LEFT IN PLACE FOR SUPPORTING THE CONSTRUCTION LOADS APPROVED BY THE ENGINEER.
- NO ALLOWANCE HAS BEEN MADE IN THE DESIGN OF THE PERIMETER BEAMS/WALLS FOR THE SUPPORT OF TEMPORARY SCAFFOLDINGS.
- THE CONTRACTOR SHALL ENGAGE HIS OWN PROFESSIONAL ENGINEER TO DESIGN AND STRENGTHEN THE BEAMS/WALLS.
- THE CONTRACTER SHALL ENGAGE HIS OWN PROFESSIONAL ENGINEER CHECK THE ADEQUACY OF SHORING DETAIL PROVIDED PROCEEDING THE WORK, AS SHORING WAS DESIGNED, CONSIDERING THE STATUS OF THE BUILDING AT THE TIME OF DESIGN.

11.0 CONCRETE COVER

- MINIMUM COVER TO OUTERMOST REINFORCEMENT INCLUDING LINKS SHALL BE AS FOLLOWS.

| STRUCTURAL ELEMENT | COVER (mm) |
|----------------------------------|------------|
| RAFT BEAM & SLAB (EARTH FACE) | 60 |
| RAFT BEAM & SLAB (INTERNAL FACE) | 60 |
| COLUMN | 40 |
| BEAM | 35 |
| BEAM (EXTERNAL FACE) | 40 |
| SLAB | 30 |
| INTERNAL WALL | 30 |
| EXTERNAL WALL | 40 |

- NOTE: EARTH FACE COVER OF BEAMS, COLUMNS & WALLS SHOULD BE 50mm

12.0 MATERIAL STRENGTHS

12.1 CONCRETE

- UNLESS OTHERWISE STATED, ORDINARY PORTLAND CEMENT CONFORMING TO BS 12, TO BE USED FOR ALL THE RC STRUCTURAL ELEMENTS.
- THE MINIMUM 28-DAY COMPRESSIVE CUBE STRENGTH OF CONCRETE FOR SPECIFIED STRUCTURAL ELEMENTS SHALL BE AS FOLLOWS UNLESS OTHERWISE STATED:

| MAIN BUILDING | |
|---|----------|
| LEAN CONCRETE | 15 N/mm2 |
| MASS CONCRETE | 30 N/mm2 |
| COLUMN, BEAM AND SLAB | 30 N/mm2 |
| EXTERNAL WORK | |
| PAVEMENTS | 30 N/mm2 |
| ALL OTHERS (CULVERT, DRAINS, MAINHOLE, ETC) | 30 N/mm2 |
| FOUNDATION | |
| PILECAP, FOOTING, RAFT TIE-BEAM, CAPPING BEAM | 30 N/mm2 |

- CEMENT SHALL BE ORDINARY PORTLAND CEMENT TO BS 12.

12.2 REINFORCEMENT

- UNLESS OTHERWISE STATED, BAR SIZE 10MM DIAMETER OR LARGER SHALL BE HIGH TENSILE TYPE II DEFORMED BARS. THE MINIMUM YIELD STRENGTH OF STEEL BAR REINFORCEMENT SHALL BE AS FOLLOWS:

| | |
|-----------------------------------|-----------|
| MILD STEEL PLAIN BAR | 250 N/mm2 |
| HIGH TENSILE TYPE II DEFORMED BAR | 500 N/mm2 |

12.25 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.

| | |
|-------------|---------------|
| | BAR GRADE 415 |
| TENSION | 450 |
| COMPRESSION | 450 |

Ø IS DIAMETER OF THE SMALLER SIZED LAPPED BAR.

- NO SPLICE SHALL BE MADE AT POINT OF MAXIMUM STRESS,EG IN BEAMS AND SLABS, THERE SHALL BE NO SPLICING OF TOP BARS OVER SUPPORTS NOR BOTTOM BARS AT MID-SPANS. SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE. LAP LENGTH FOR UNEQUAL SIZE BARS (OR WIRES IN FABRIC) MAY BE BASED UPON THE SMALLER BAR. FOR BUNDLED BARS, THE EQUIVALENT DIAMETER SHALL BE USED. CRANKING OF BARS SHALL NOT EXCEED A SLOPE OF 1:10.
- FOR LAP LENGTH, WHERE SYMBOLS ARE NOT INDICATED, THE TENSION LAP LENGTH SHALL BE FOLLOWED.

13.0 STIRRUPS, LINKS AND TIES

- ALL STIRRUPS, LINKS AND TIES IN BEAMS, COLUMNS AND WALLS RESPECTIVELY SHALL TERMINATE NOT MORE THAN 75mm FROM THE FACE OF ANY ADJACENT STRUCTURAL MEMBERS.

14.0 SLAB DISTRIBUTION BARS

- REGARDLESS OF WHETHER OR NOT SHOWN ON PLAN, ALL DISTRIBUTION BARS FOR SLAB SHALL COMPRISE TYPICALLY ONE OF THE FOLLOWING COMBINATIONS, UNLESS OTHERWISE STATED IN THE RELEVANT DRAWINGS :

| SLAB THICKNESS (mm) | MIN. DISTRIBUTION BAR |
|--|-----------------------|
| 250 OR LESS | T10-300 |
| GREATER THAN 250 BUT LESS THAN OR EQUAL TO 300 | T10-200 |
| GREATER THAN 300 BUT LESS THAN OR EQUAL TO 400 | T10-150 |

15.0 FLOOR RENDERING

- THICKNESS OF SCREED RENDERING/MASS CONCRETE TOPPING EXCEEDING 60 OR MORE SHALL BE REINFORCED WITH ONE LAYER OF R6.

16.0 SHRINKAGE CRACKS

- THE SURFACE OF CONCRETE SHALL BE ADEQUATELY AND CONTINUOUSLY CURED TO SPECIFICATION TO PREVENT FORMATION OF SHRINKAGE CRACKS.THOUGH SHRINKAGE CRACKS HAVE NO EFFECT ON THE STRENGTH AND INTEGRITY OF THE STRUCTURE,THEY SHOULD BE SEALED BY EPOXY PRESSURE GROUTING. ALL COST INCURRED FOR THE NECESSARY SEALING UP OF SHRINKAGE CRACKS BY EPOXY PRESSURE GROUTING SHALL BE DEEMED TO BE INCLUDED IN THE CONCRETE WORK AS TENDERED.

17.0 STEEL BAR CORROSION PROTECTION

- ALL EXPOSED BARS FOR FUTURE CONSTRUCTION PURPOSES (EXCEEDING 3 MONTHS) MUST BE COATED WITH MASTER EMACO 8100 AP OR APPROVED EQUIVALENT AND PROVIDED WITH ADEQUATE MAINTENANCE.

18.0 SPACER BARS

- ALL SPACER BARS BETWEEN 2 OR MORE LAYERS OF REINFORCEMENT SHALL T25 OR BAR DIAMETER (WHICHEVER IS GREATER) AT ±1-5M C/C.

19.0 STRUCTURAL TIMBER SPECIFICATION

19.1 THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE, AND ARE NOT INTENDED TO INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES, AND FOR JOB SAFETY.

19.2 THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

19.3 ALL CONSTRUCTION IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

19.4 ALL TIMBER FOR STRUCTURAL USE SHALL BE HARDWOOD OR SOFTWOOD OF VISUAL GRADE C/D IN ACCORDANCE WITH BS 5756 WITH THE FOLLOWING MINIMUM GRADE STRESSES:

19.5 CONNECTIONS
PLATES - STAINLESS STEEL GRADE 316 OF STATED THICKNESS
BOLTS - SS GRADE 316

19.6 TIMBER TREATMENT
MOISTURE - PRESSURE IMPREGNATION OF CCA
INSECTS - TERMITE TREATMENT FOR TIMBER IN / NEAR GROUND

20.0 STRUCTURAL STEEL SPECIFICATION

1. SEE 21.0 ON PRIMARY CODES AND SPECIFICATIONS.

2. MATERIALS:

W-SHAPES & WT-SHAPES..... ASTM A992
S-SHAPES, M-SHAPES, HP-SHAPES..... ASTM A36
ST-SHAPES & MT-SHAPES..... ASTM A36
C-SHAPES & MC-SHAPES..... ASTM A36
ANGLES & PLATES..... ASTM A36
HSS SHAPES..... ASTM A500, GRADE B
STEEL PIPE..... ASTM A53 (TYPE E OR S), GRADE B
HIGH STRENGTH BOLTS..... ASTM A325
MACHINE BOLTS..... ASTM A307
ANCHOR RODS..... ASTM F1554, GRADE 55 TYPE S1(UNO)
WELDED HEADED STUDS..... ASTM A108
DEFORMED BAR ANCHORS..... ASTM A496
WELDING ELECTRODES..... AWS D1.1, E70 SERIES


3. NON-SHRINK, NON-METALLIC GROUT WITH A 28 DAY STRENGTH OF 35MPa SHALL BE USED UNDER BASE PLATES AND SHALL CONFORM TO BS EN 12390-3 AND EN 196-1. MASTERFLOW 542 OR EQUIVALENT MAYBE USED.

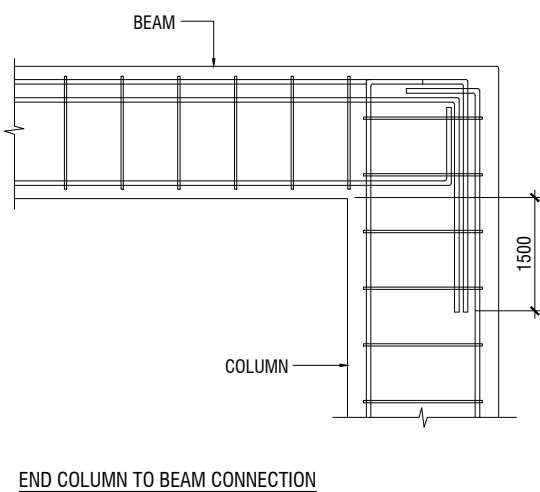
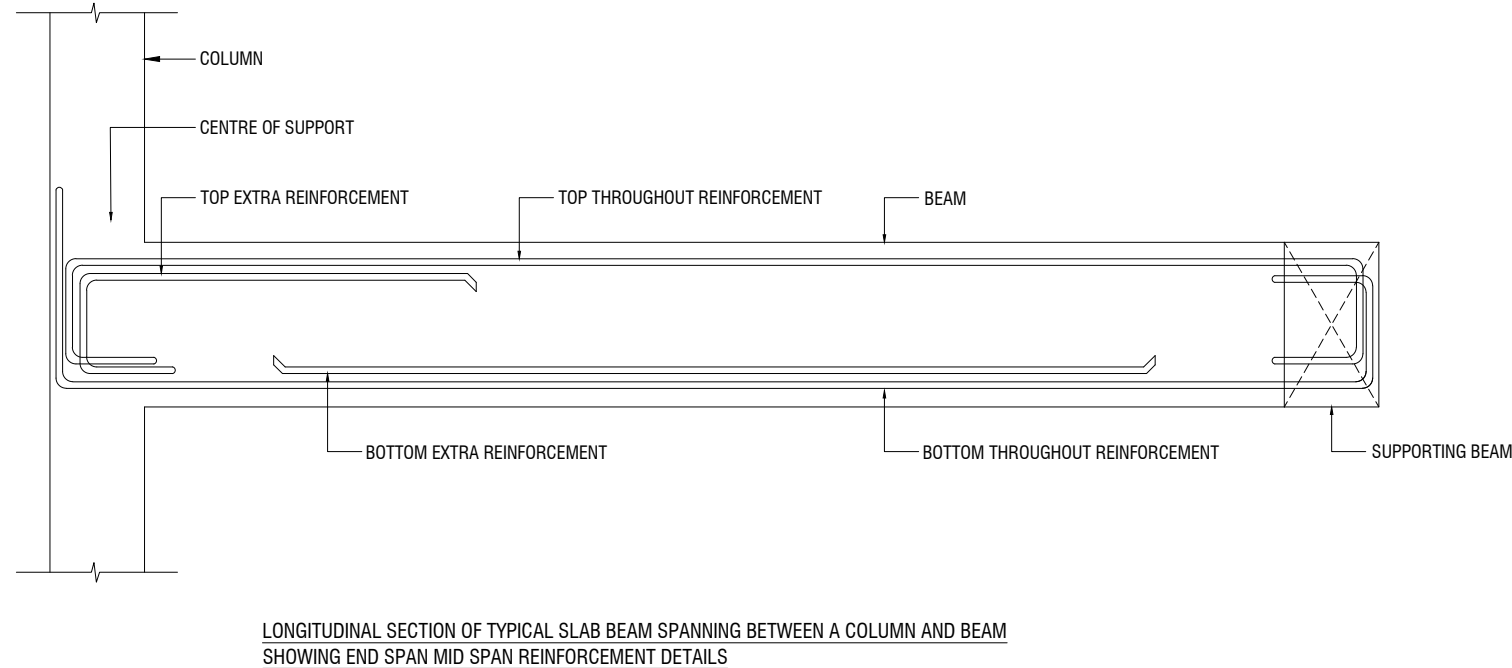
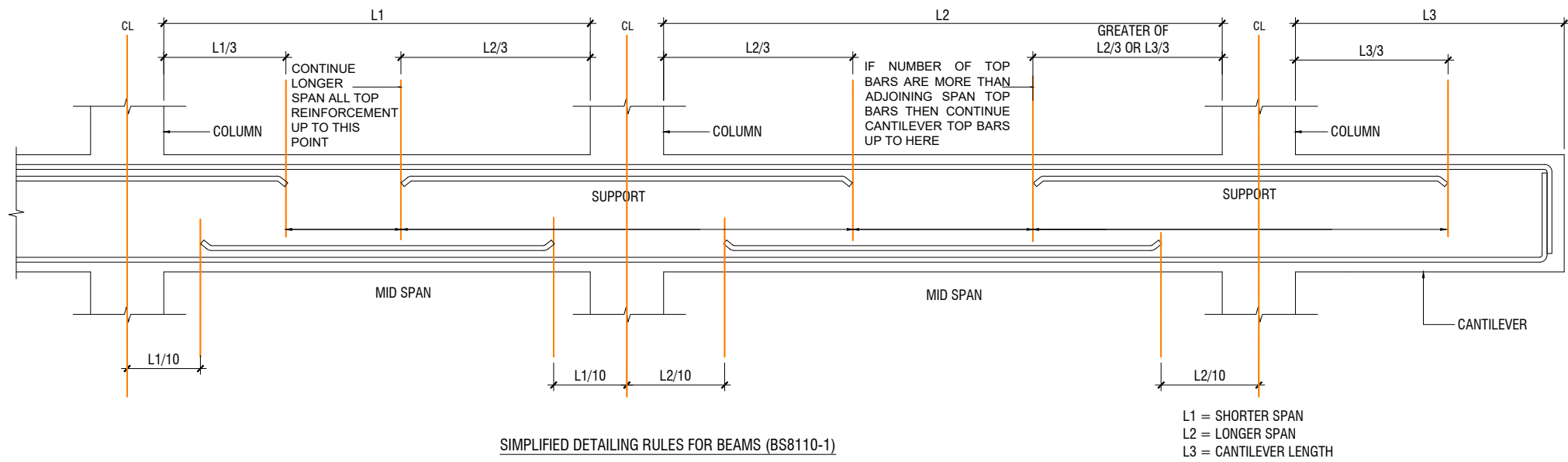
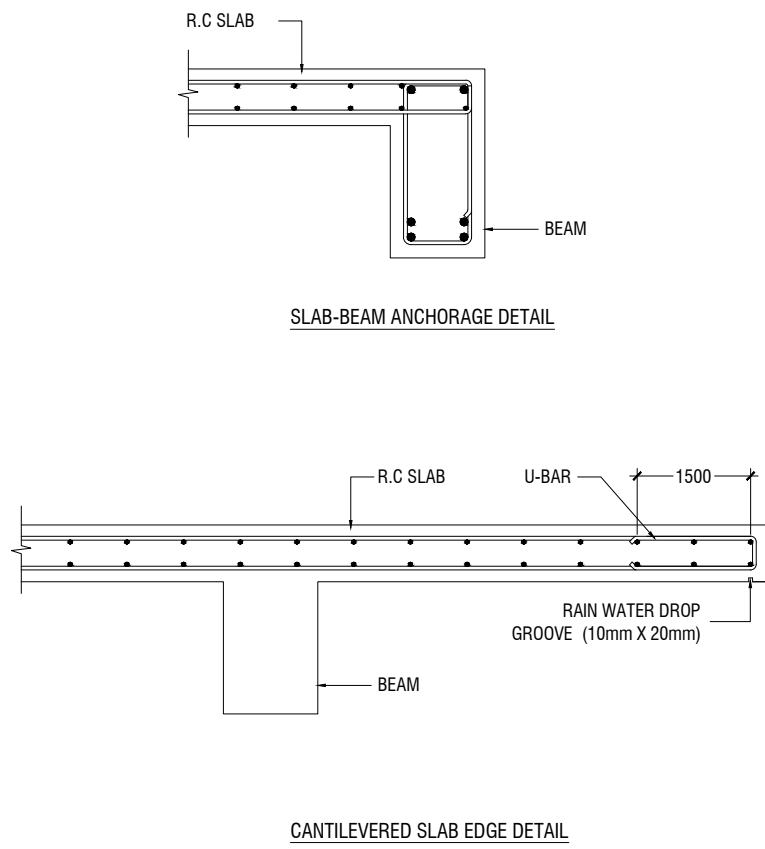
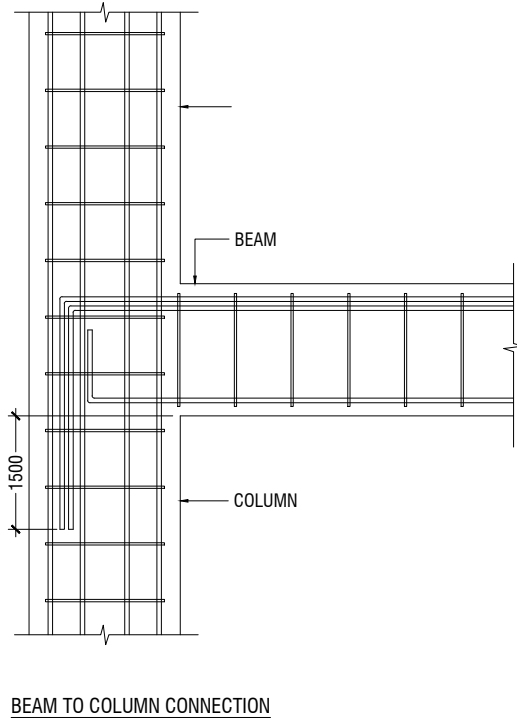
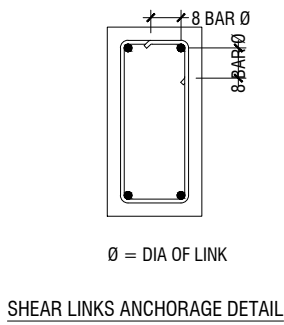
23.0 POST-INSTALLED ANCHORS

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD (EOR) PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSINGS OR MISPLACED ANCHORS.

2. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCING WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE.

3. SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL ADHESIVE AND MECHANICAL ANCHOR INSTALLATIONS AS REQUIRED BY THE EOR. INDEPENDENT ON-SITE PROOF LOAD TESTING SHALL BE PERFORMED AS REQUIRED BY THE EOR. CONTACT EOR FOR NUMBER OF ANCHORS REQUIRED TO BE TESTED AND REQUIRED PROOF LOAD MAGNITUDE.

| | | |
|---|------|-------------|
|  <div>PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION REPUBLIC OF MALDIVES</div> | | |
| PROJECT : PROPOSED MULTIPURPOSE HALL & 6 CLASSROOM AT AA. BODUFOLHADHOO SCHOOL | | |
| PROJ. REF : SCALE : AS GIVEN | | |
| ARCHITECT : ENGINEER : DRAWN : CHECKED : DATE : 05.03.2023 | | |
| AMMENDMENTS | | |
| Issue | Date | Description |
| | | |
| DWG NO :001 - 09 | | |

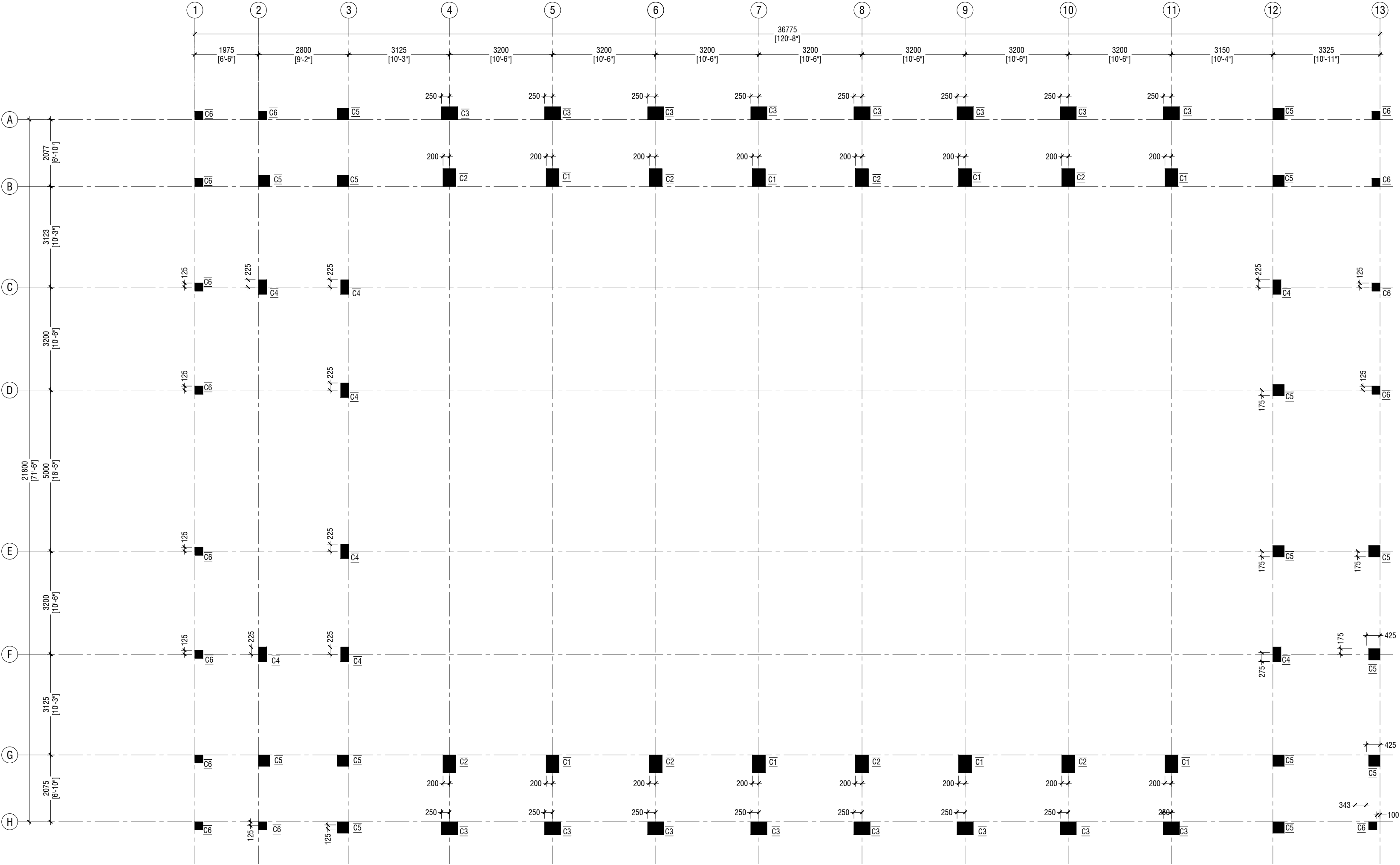


NOTE:
STANDARD DETAILS GIVEN HERE ALSO APPLIES TO FOUNDATION MEMBERS
OTHER DETAILS NOT FOUND HERE SHALL BE REFERRED TO IN RELEVANT BS
CODES OR SHALL BE APPROVED BY CLIENT'S ENGINEER



1. FOR OPENINGS LESS THAN 200x200. SLAB REBARS TO BE ADJUSTED AROUND OPENING.
2. FOR OPENINGS GREATER THAN 250x250 TO BE APPROVED BY THE ENGINEER.
3. ALL SLAB OPENINGS LOCATION TO BE APPROVED BY THE ENGINEER.
4. EQUIVALENT OPENING AREA SHALL APPLY THE DETAILS SHOWN ABOVE.
5. EQUIVALENT OPENING AREA SHALL INCLUDE RECTANGLE, TRIANGLE AND ANY POLYGON SHAPE.
6. EXCEPT HACKING, NO SLAB CORING ARE ADVISABLE FOR POST-TENSIONED SLAB.

TYPICAL TRIMMER BARS DETAILS FOR OPENING IN SLABS



GROUND FLOOR COLUMN LAYOUT PLAN



NOTE:

COLUMN SIZES

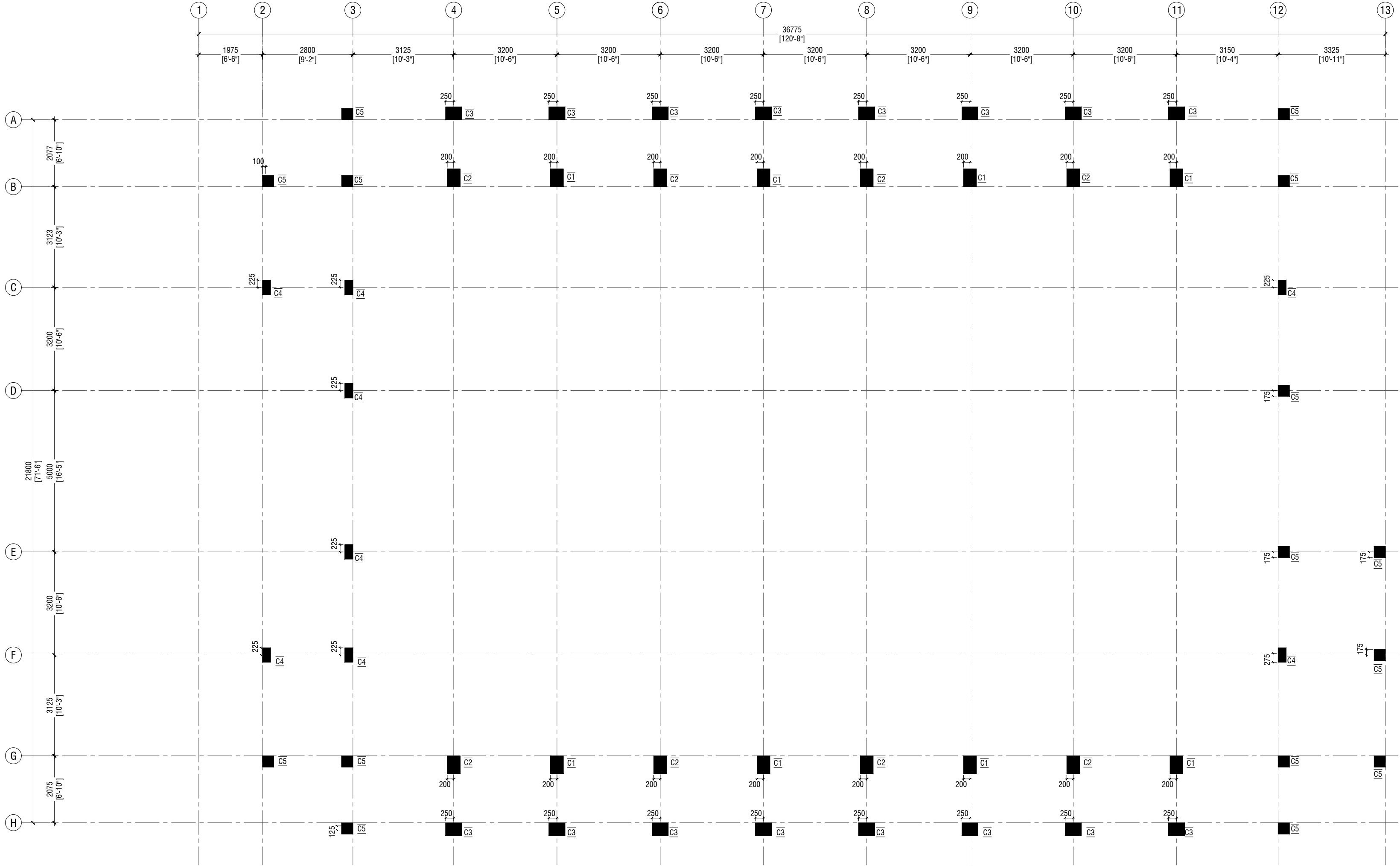
| | |
|-------|----------------|
| C1 | : 400 x 550 mm |
| C2 | : 400 x 550 mm |
| C3 | : 400 x 500 mm |
| C4 | : 250 x 450 mm |
| C5 | : 350 x 350 mm |
| C6 | : 250 x 250 mm |
| C7 | : 200 x 200 mm |
| SC | : 150 X 150 mm |
| COVER | : 40mm |



PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

| | |
|-------------|------------------|
| PROJ. REF: | SCALE : AS GIVEN |
| ARCHITECT : | ENGINEER : |
| DRAWN : | CHECKED : |
| DATE : | 05.03.2023 |

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |




FIRST FLOOR COLUMN LAYOUT PLAN
SCALE 1:100

NOTE:

COLUMN SIZES

C1 : 400 x 550 mm
C2 : 400 x 550 mm
C3 : 400 x 500 mm
C4 : 250 x 450 mm
C5 : 350 x 350 mm
C6 : 250 x 250 mm
SC : 150 X 150 mm
COVER : 40mm



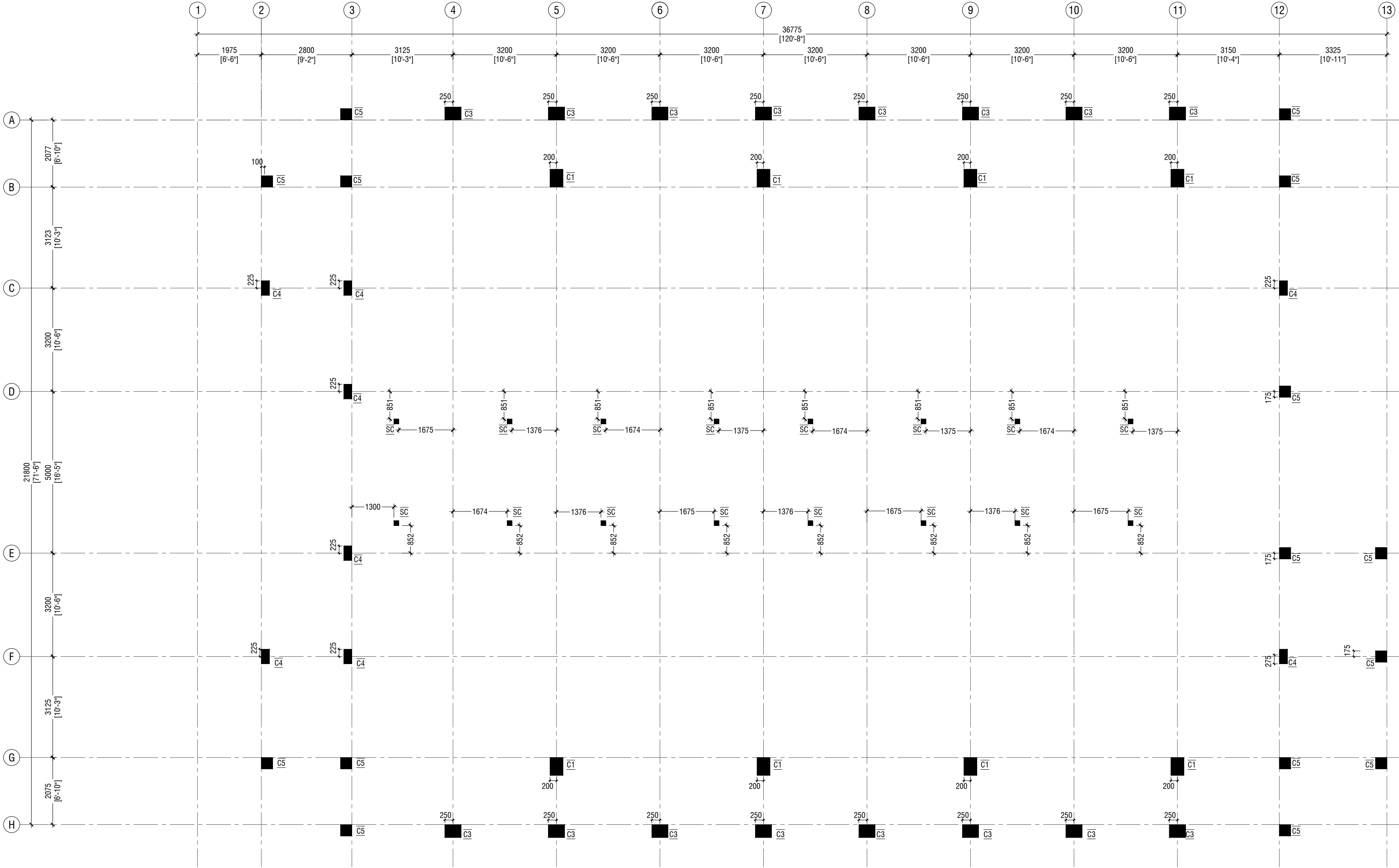
PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

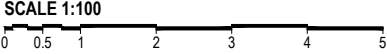
PROJ. REF: _____
SCALE : AS GIVEN
ARCHITECT : _____
ENGINEER : _____
DRAWN : _____
CHECKED : _____
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |

DWG NO :055 - 69




SECOND FLOOR COLUMN LAYOUT PLAN



NOTE:

| COLUMN SIZES | |
|--------------|----------------|
| C1 | : 400 x 550 mm |
| C2 | : 400 x 550 mm |
| C3 | : 400 x 500 mm |
| C4 | : 250 x 450 mm |
| C5 | : 350 x 350 mm |
| C6 | : 250 x 250 mm |
| SC | : 150 X 150 mm |
| COVER | : 40mm |



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

PROJECT :

PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF:

SCALE : AS GIVEN

ARCHITECT :

ENGINEER :

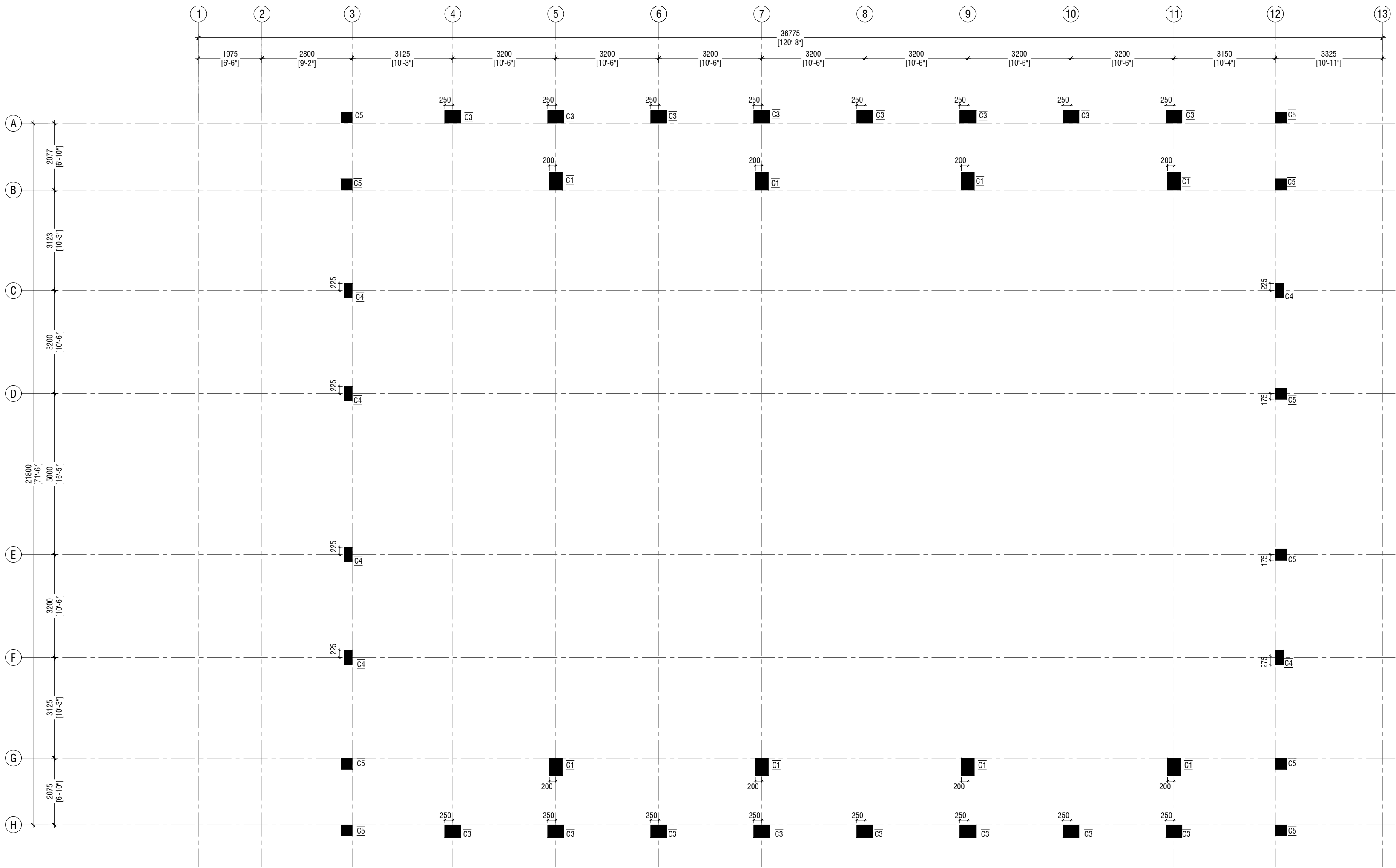
DRAWN :

CHECKED :

DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |


DWG NO :S06 - 69



ROOF - 2 LEVEL COLUMN LAYOUT PLAN
SCALE 1:100



| | |
|--------------|----------------|
| NOTE: | |
| COLUMN SIZES | |
| C1 | : 400 x 550 mm |
| C2 | : 400 x 550 mm |
| C3 | : 400 x 500 mm |
| C4 | : 250 x 450 mm |
| C5 | : 350 x 350 mm |
| C6 | : 250 x 250 mm |
| SC | : 150 X 150 mm |
| COVER | : 40mm |



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

PROJECT :

PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF:

SCALE :

AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

CHECKED :

DATE :

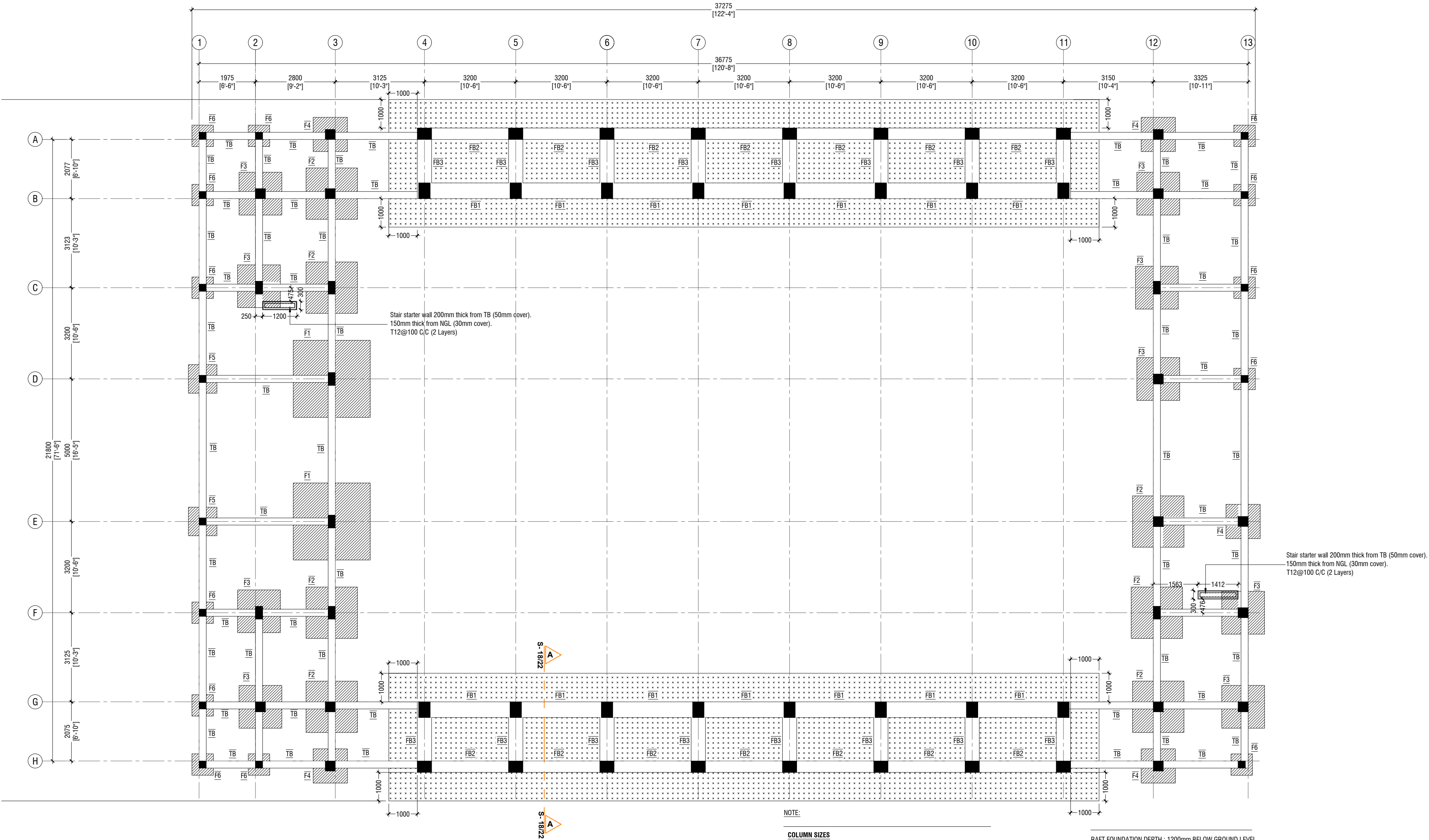
05.03.2023

AMMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |
| | | |

DWG NO :507

- 69



FOUNDATION PLAN

SCALE 1:100



NOTE:

COLUMN SIZES

C1 : 400 x 550 mm
C2 : 400 x 550 mm
C3 : 400 x 500 mm
C4 : 250 x 450 mm
C5 : 350 x 350 mm
C6 : 250 x 250 mm
SC : 150 x 150 mm
COVER : 40mm

FOUNDATION PAD SIZES

| | DIMENSION | REINFORCEMENT (L x B x D) | FOUNDATION DEPTH (MM) |
|----|-------------------|---|-----------------------|
| F1 | 2700 x 2700 x 550 | T16@130 C/C B/W (B) T12@130C/C B/W (T) | 1450mm |
| F2 | 1800 x 1800 x 400 | T16@120 C/C B/W (B) | 1300mm |
| F3 | 1500 x 1500 x 350 | T12@150 C/C B/W (B) | 1250mm |
| F4 | 1200 x 1200 x 350 | T12@150 C/C B/W (B) | 1250mm |
| F5 | 1000 x 1000 x 300 | T12@150 C/C B/W (B) | 1200mm |
| F6 | 750 x 750 x 300 | T10@100 C/C B/W (B) | 1200mm |

RAFT FOUNDATION DEPTH : 1200mm BELOW GROUND LEVEL

300mm THICK RAFT

ALL FOOTINGS ARE TO BE LAID ON TOP OF 50mm THICK
LEAN CONCRETE
APPLY WATER PROOFING TO SUBSTRUCTURE
(BELOW GROUND ELEMENTS)

TIE BEAM SIZES

TB : 250 x 400 mm
COVER : 50mm

GROUND SLAB : 100mm THK RC SLAB ON FILL
REINFORCED WITH T10@200 C/C B/W

CONCRETE GRADE 35 = MPa

-150mm THK. SOLID MASONRY BLOCK WALL

RAMP SLAB : 100MM THICK SLAB ON GRADE,
T10@200 C/C BW



PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

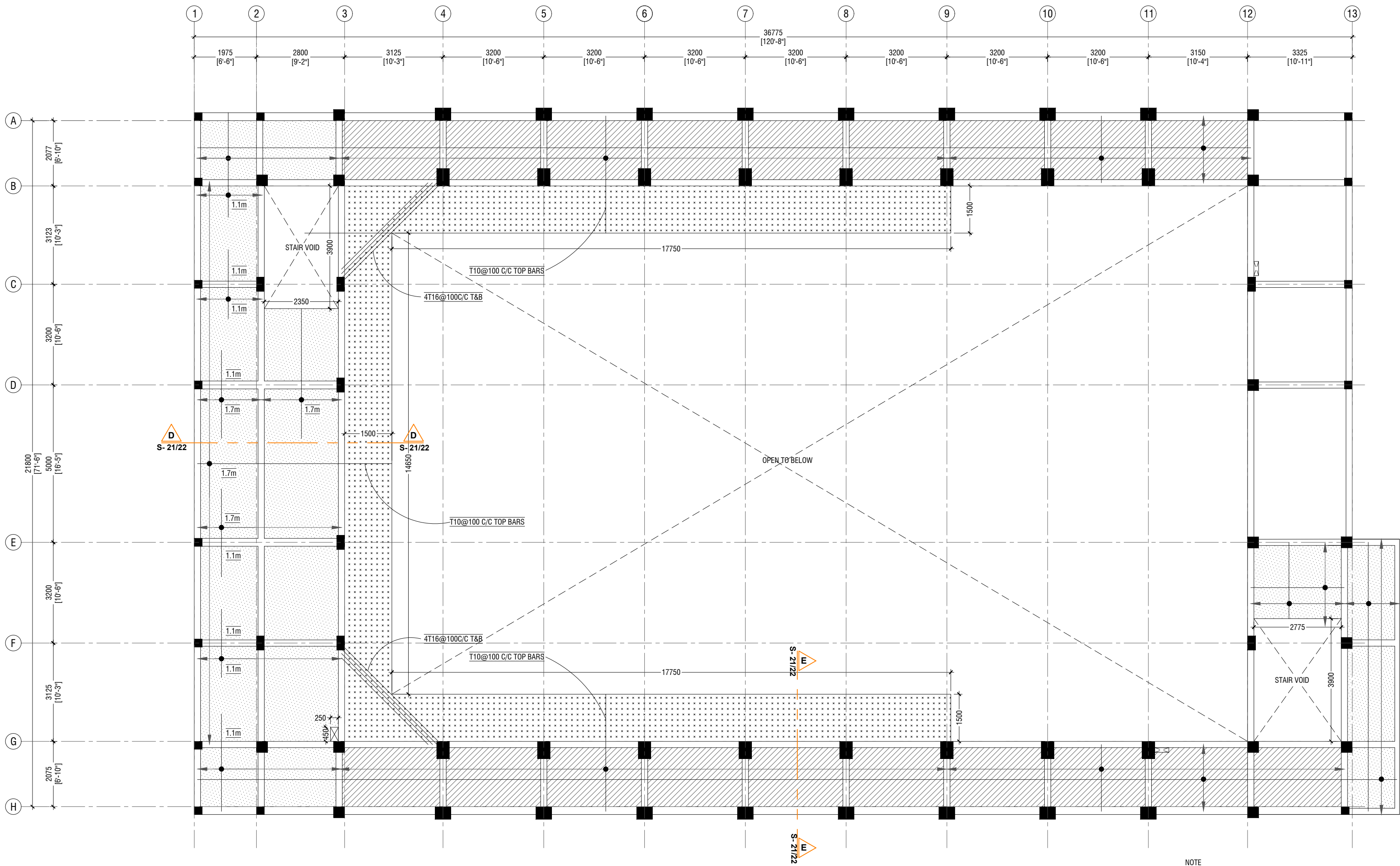
| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |

DWG NO: 508 - 69



CONCRETE GRADE 30 = MPa

DWG NO :S09 - 69




FIRST FLOOR SLAB REINFORCEMENT PLAN
SCALE 1:100



NOTE

- SLAB THICKNESS - 150mm
- CAT WALK SLAB THICKNESS - 170mm
- SLAB THICKNESS -200mm

BOTTOM REINFORCEMENT - T10@150 C/C BW (NOT SHOWN, UNLESS STATED)
TOP REINFORCEMENT - T10 @150 C/C (AS SHOWN UNLESS STATED)
TOP DISTRIBUTION BARS - T10@150 C/C
REINFORCEMENT DISCONTINUOUS AT VOIDS



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

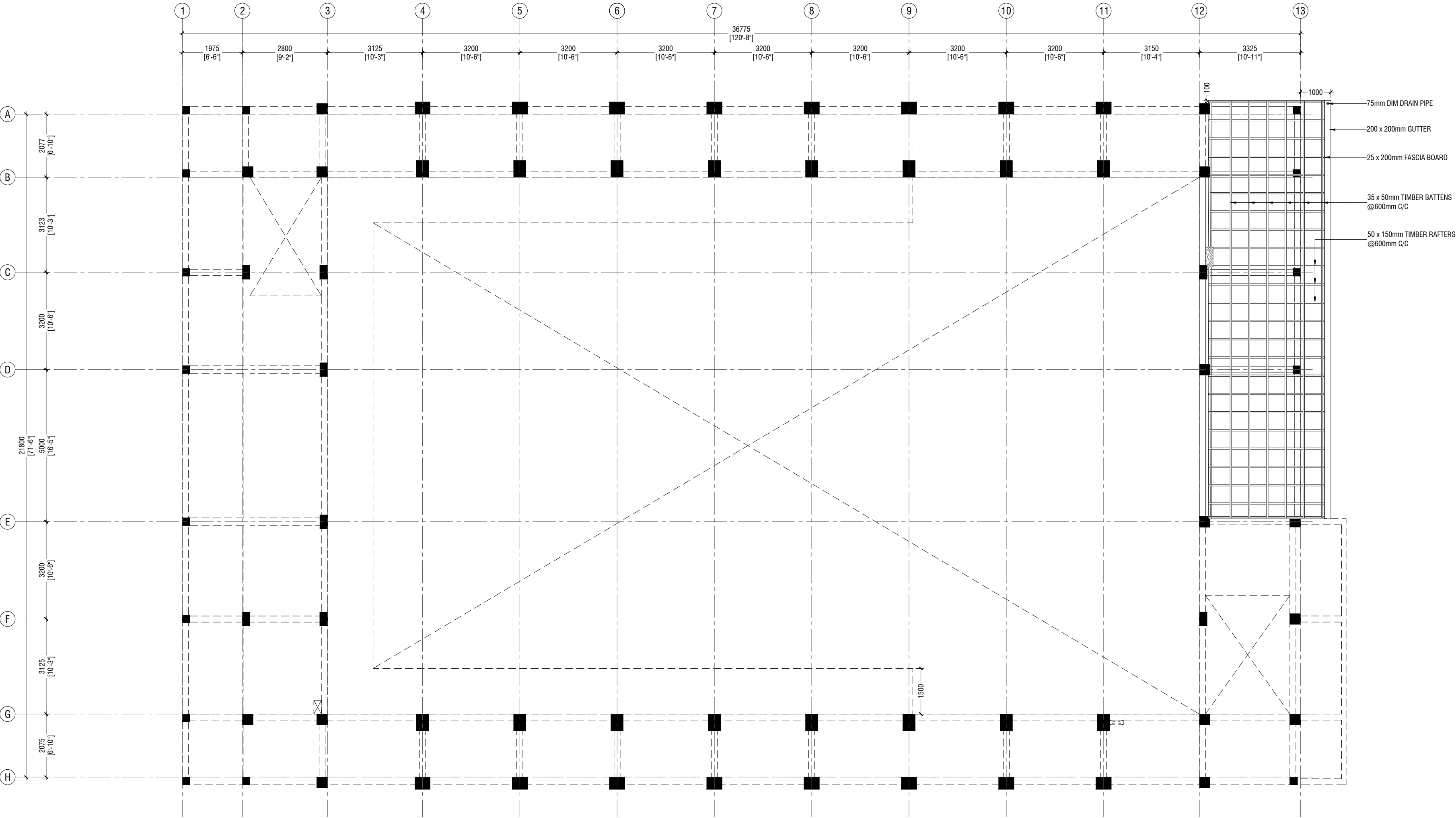
PROJECT :
**PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL**

PROJ. REF: _____
SCALE : AS GIVEN

ARCHITECT : _____
ENGINEER : _____
DRAWN : _____
CHECKED : _____
DATE : 05.03.2023


| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |

DWG NO :S16 - 69



LOWER ROOF FRAMING PLAN
SCALE 1:100





PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

PROJECT :

PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF:

SCALE : AS GIVEN

ARCHITECT :

ENGINEER :

DRAWN :

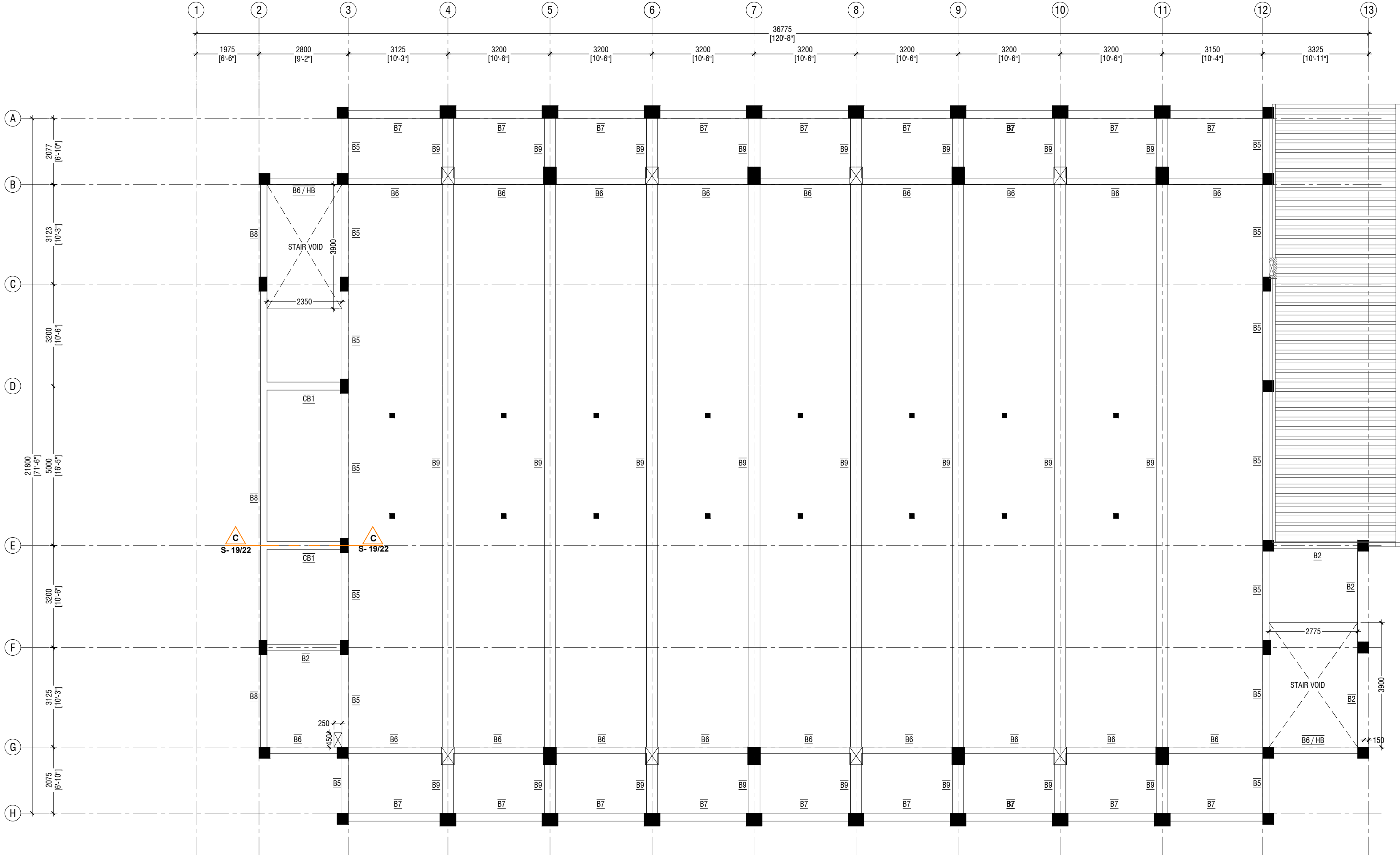
CHECKED :

DATE : 05.03.2023

AMMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |

DWG NO :S11 - 69



SECOND FLOOR BEAM PLAN

SCALE 1:100



NOTE:

COLUMN SIZES

| | |
|-------|----------------|
| C1 | : 400 x 550 mm |
| C2 | : 400 x 550 mm |
| C3 | : 400 x 500 mm |
| C4 | : 250 x 450 mm |
| C5 | : 350 x 350 mm |
| C6 | : 250 x 250 mm |
| SC | : 150 x 150 mm |
| COVER | : 40mm |

⊠ COLUMN TERMINATED FROM
SECOND FLOOR SLAB

NOTE:

BEAM SIZES

| | |
|-------|---------------|
| B1 | : 200x450 mm |
| B1A | : 200x450 mm |
| B2 | : 200x400 mm |
| B3 | : 250x450 mm |
| B4 | : 200x400 mm |
| B5 | : 200x450 mm |
| B6 | : 200x400 mm |
| B7 | : 250x500 mm |
| B8 | : 200x450 mm |
| B9 | : 350x1200 mm |
| CB1 | : 250x450 mm |
| HB | : 200x400 mm |
| RB1 | : 200x300 mm |
| RB2 | : 200x400 mm |
| RB3 | : 150x400 mm |
| RB4 | : 150x400 mm |
| CRB1 | : 200x400 mm |
| COVER | : 35mm |

CONCRETE GRADE 30 = MPa

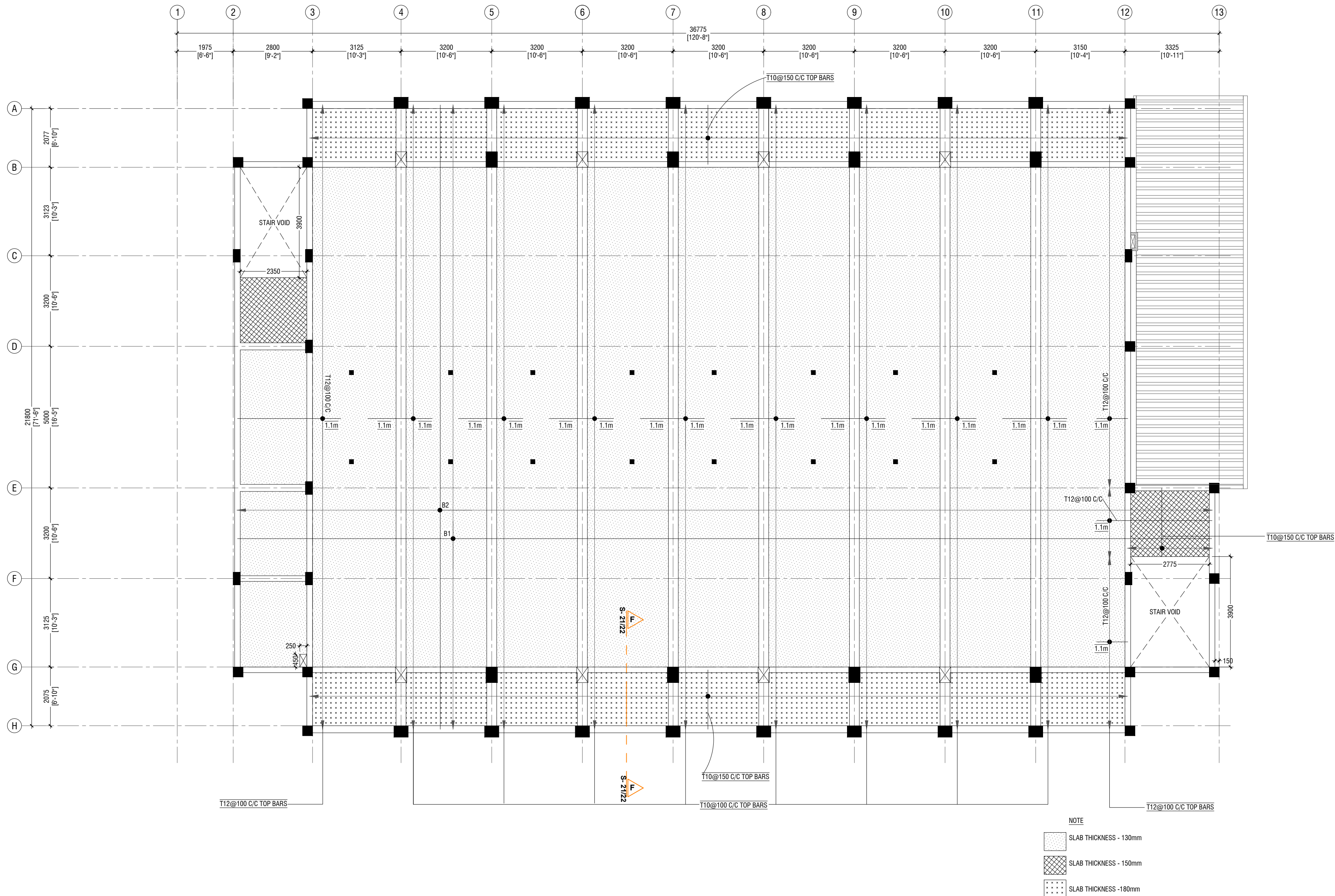


PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO :S12 - 69



SECOND FLOOR SLAB REINFORCEMENT PLAN

SCALE 1:100
0 0.5 1 2 3 4 5

NOTE

SLAB THICKNESS - 130mm

SLAB THICKNESS - 150mm

SLAB THICKNESS - 180mm

BOTTOM REINFORCEMENT -
B1 - T10@100 C/C (AS SHOWN)
B2 - T10 @200 C/C (AS SHOWN)

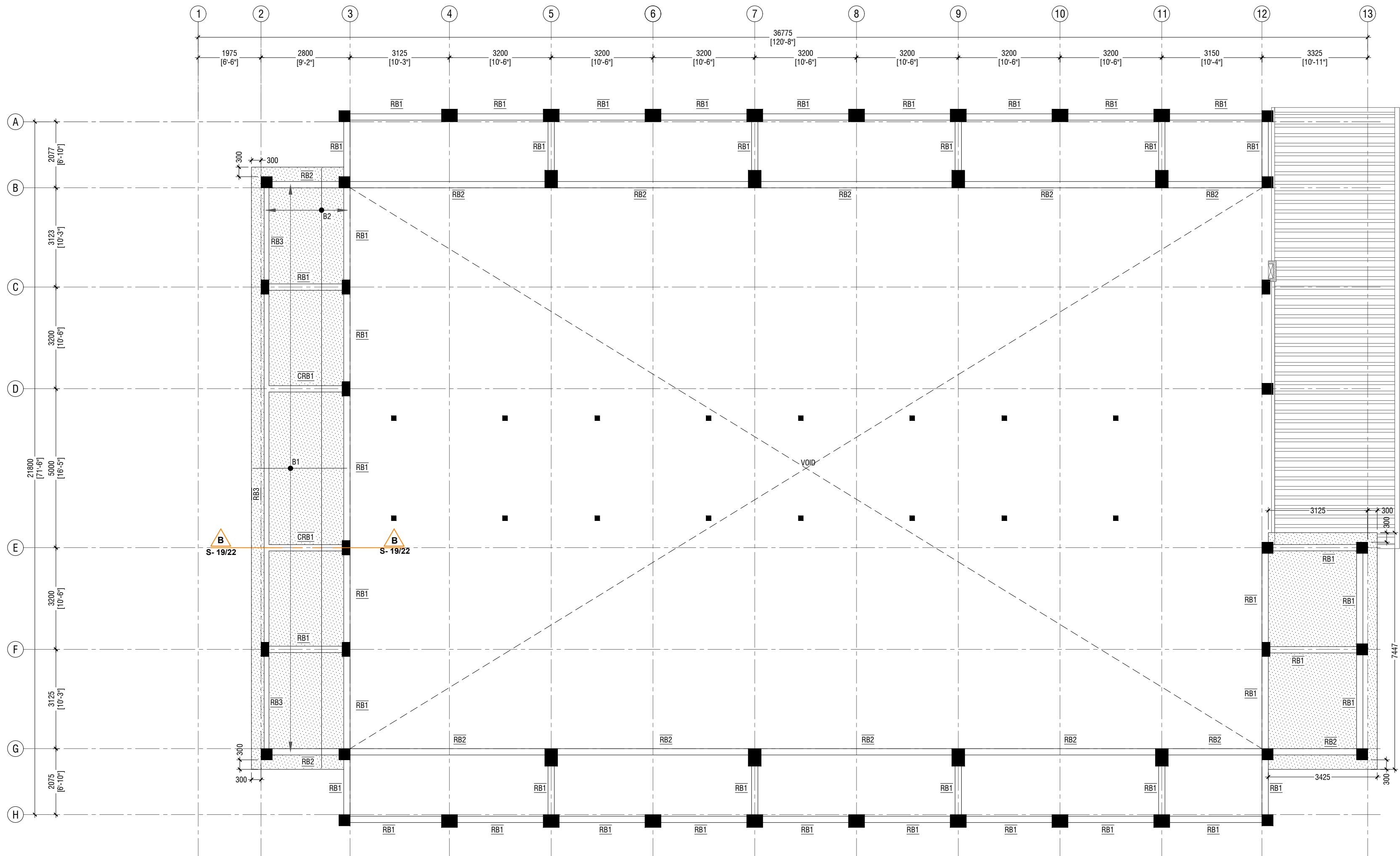
TOP REINFORCEMENT - TOP BARS AS SHOWN
TOP DISTRIBUTION BARS - T10@150 C/C
REINFORCEMENT DISCONTINUOUS AT VOIDS



PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |



ROOF BEAM LEVEL - 1 AND SLAB REINFORCEMENT PLAN (+10300)

SCALE 1:100
0 0.5 1 2 3 4 5

NOTE:

COLUMN SIZES

C1 : 400 x 550 mm
C2 : 400 x 550 mm
C3 : 400 x 500 mm
C4 : 250 x 450 mm
C5 : 250 x 350 mm
C6 : 250 x 250 mm
SC : 150 x 150 mm
COVER : 40mm

NOTE:

BEAM SIZES

B1 : 200x450 mm
B1A : 200x450 mm
B2 : 200x400 mm
B3 : 250x450 mm
B4 : 200x400 mm
B5 : 200x450 mm
B6 : 200x400 mm
B7 : 250x500 mm
B8 : 200x450 mm
B9 : 350x1200 mm
CB1 : 250x450 mm
HB : 200x400 mm
RB1 : 200x300 mm
RB2 : 200x400 mm
RB3 : 150x400 mm
RB4 : 150x400 mm
CRB1 : 200x400 mm
COVER : 35mm

CONCRETE GRADE 30 = MPa

NOTE

SLAB THICKNESS - 130mm

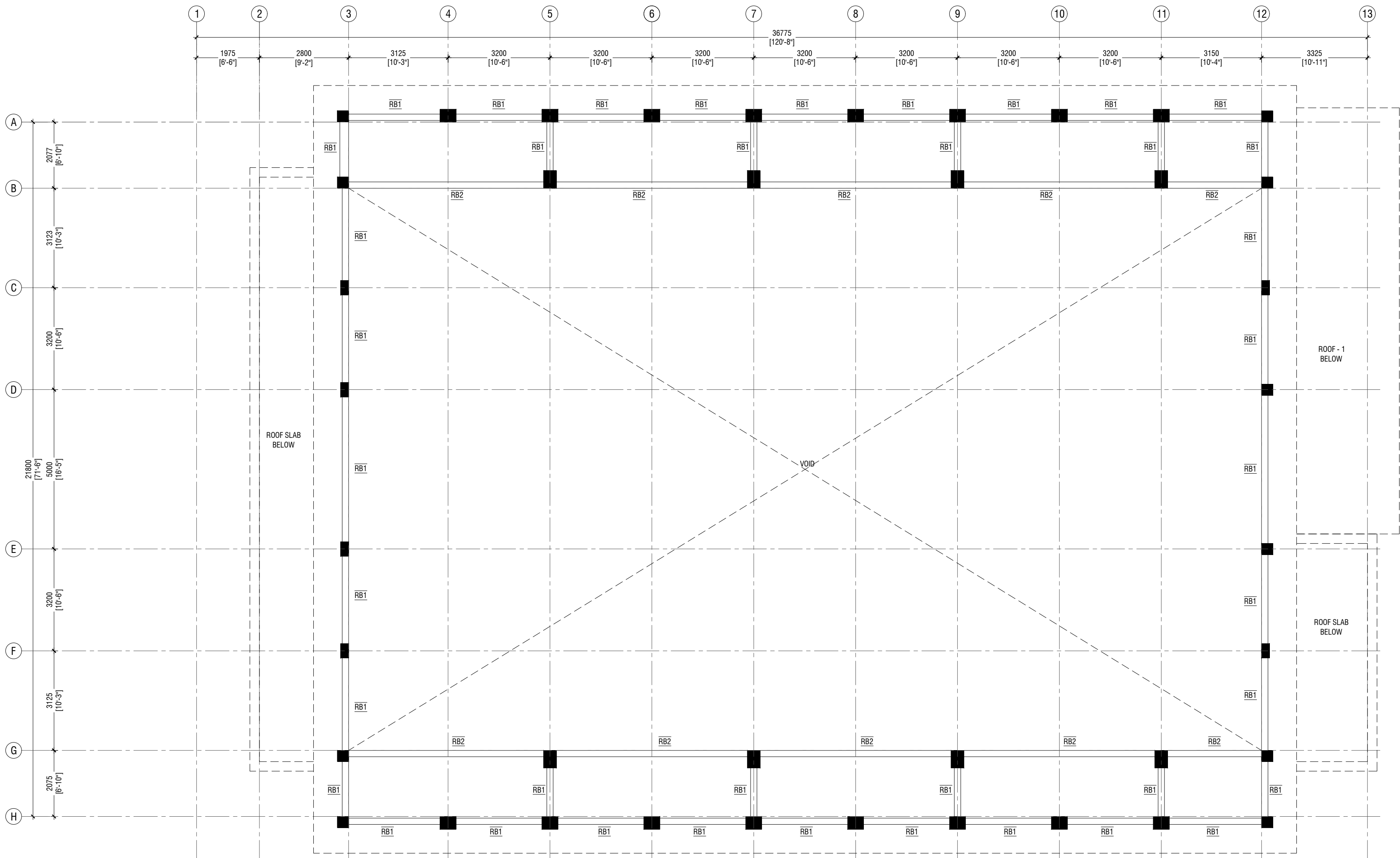
BOTTOM REINFORCEMENT - T10@200 C/C B/W (NOT SHOWN)
BOTTOM REINFORCEMENT - B1 - T10@100 C/C (AS SHOWN)
BOTTOM REINFORCEMENT - B2 - T10 @200 C/C (AS SHOWN)
TOP REINFORCEMENT - T10 @200 C/C B/W (NOT SHOWN)
REINFORCEMENT DISCONTINUOUS AT VOIDS



PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF:
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |



ROOF BEAM LEVEL - 2 (+11200)

SCALE 1:100
0 0.5 1 2 3 4 5

NOTE:


COLUMN SIZES

C1 : 400 x 550 mm
C2 : 400 x 550 mm
C3 : 400 x 500 mm
C4 : 250 x 450 mm
C5 : 350 x 350 mm
C6 : 250 x 250 mm
SC : 150 x 150 mm
COVER : 40mm

NOTE:

BEAM SIZES

B1 : 200x450 mm
B1A : 200x450 mm
B2 : 200x400 mm
B3 : 250x450 mm
B4 : 200x400 mm
B5 : 200x450 mm
B6 : 200x400 mm
B7 : 250x500 mm
B8 : 200x450 mm
B9 : 350x1200 mm
CB1 : 250x450 mm
HB : 200x400 mm
RB1 : 200x300 mm
RB2 : 200x400 mm
RB3 : 150x400 mm
RB4 : 150x400 mm
CRB1 : 200x400 mm
COVER : 35mm
CONCRETE GRADE 30 = MPa



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

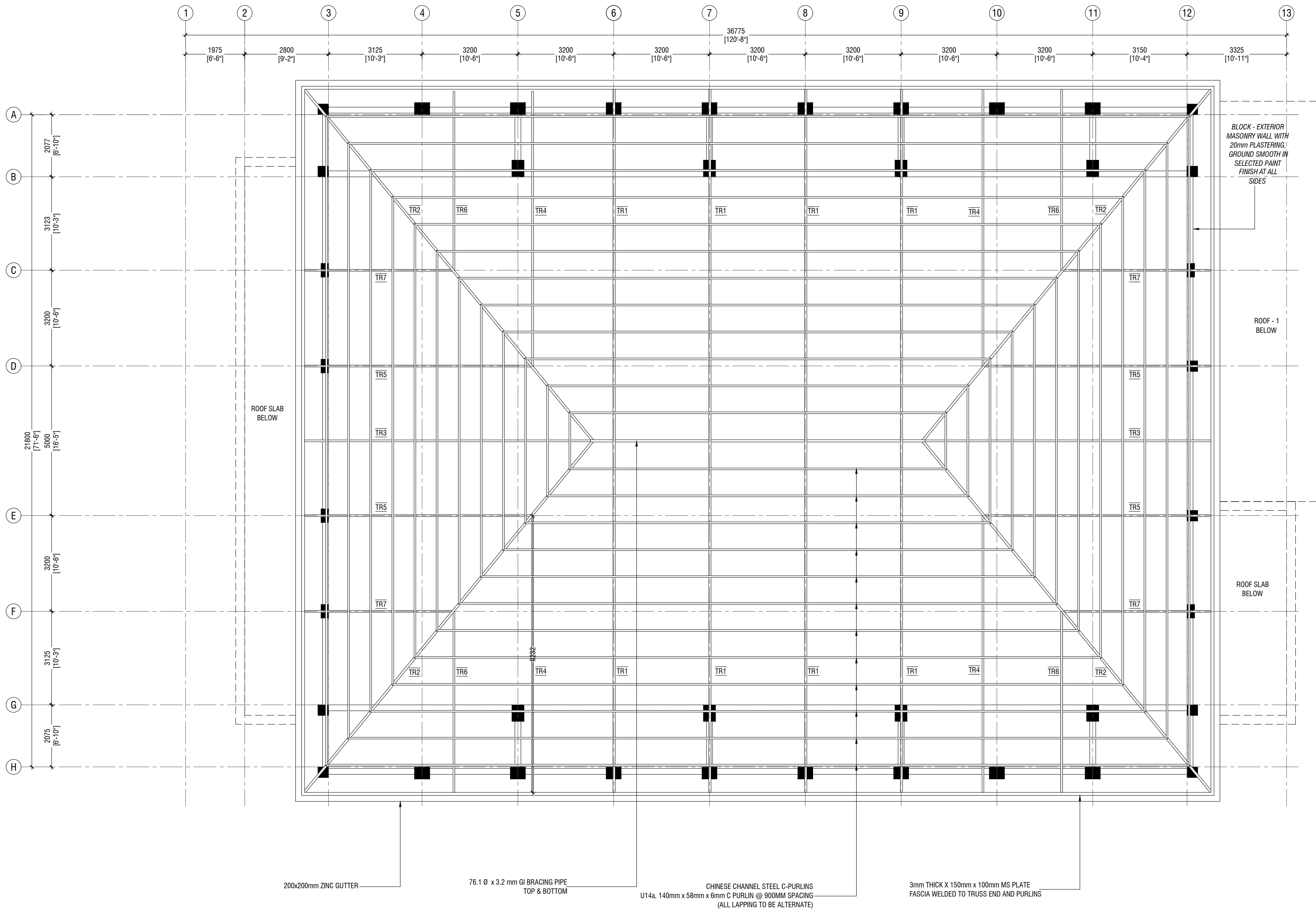
PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN


ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |

DWG NO :S15 - 69



ROOF LEVEL - 2 TRUSS AND FRAMING PLAN
SCALE 1:100



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

PROJECT :
**PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL**

PROJ. REF :
SCALE : AS GIVEN

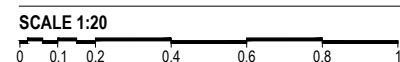
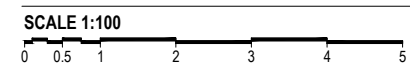
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |

DWG NO :S16 - 69



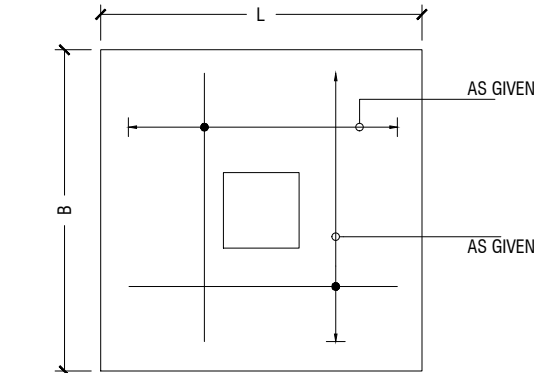
**CORROSION PROTECTION: GALVANIZED COATING
THICKNESS SHALL NOT BE LESS THAN 80 MICRONS
ALL FILLET WELDS TO BE 4mm THICK
CONTRACTOR AND CONSULTANT TO CONFIRM ON SITE
TRUSS SPAN AND DIMENSIONS BEFORE FABRICATION**



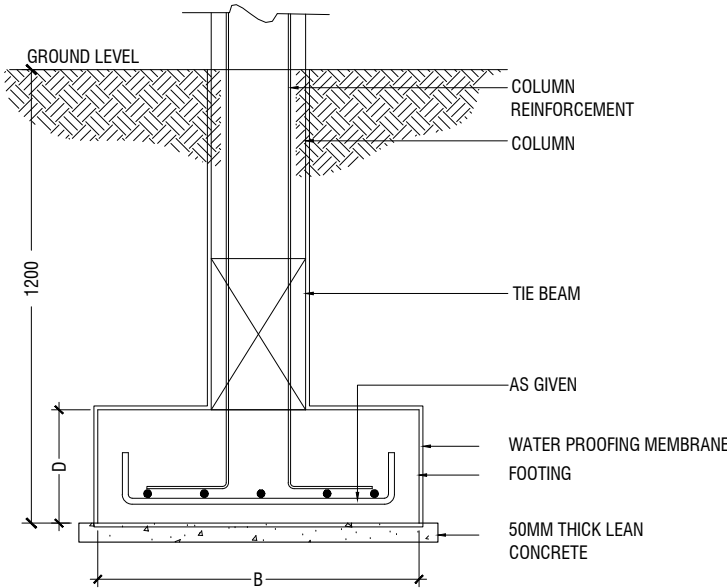
| | DIMENSION | REINFORCEMENT (L x B x D) | FOUNDATION DEPTH (MM) |
|----|-------------------|---|-----------------------|
| F1 | 2700 x 2700 x 550 | T16@130 C/C B/W (B) T12@130C/C B/W (T) | 1450mm |
| F2 | 1800 x 1800 x 400 | T16@120 C/C B/W (B) | 1300mm |
| F3 | 1500 x 1500 x 350 | T12@150 C/C B/W (B) | 1250mm |
| F4 | 1200 x 1200 x 350 | T12@150 C/C B/W (B) | 1250mm |
| F5 | 1000 x 1000 x 300 | T12@150 C/C B/W (B) | 1200mm |
| F6 | 750 x 750 x 300 | T10@100 C/C B/W (B) | 1200mm |

RAFT FOUNDATION DEPTH = 1200mm
 NOTE:-
 COVER TO FOUNDATION = 50mm
 COVER TO COLUMNS = 40mm
 COVER TO BEAMS = 35mm
 LAPS = Ø OF BAR x 45
 BEAMS @END SUPPORT = Ø OF BAR x 12
 CONCRETE GRADE 35= MPa

FOUNDATION PADS



PLAN



SECTION FOOTING DETAILS

| | | | |
|----------------------------------|--|-----------------------------|--|
| (TB) (FOUNDATION ONLY) | | (TB1) (RAMP ONLY) | |
|----------------------------------|--|-----------------------------|--|

TIE BEAM DETAIL STRUCTURAL DETAILS - 1



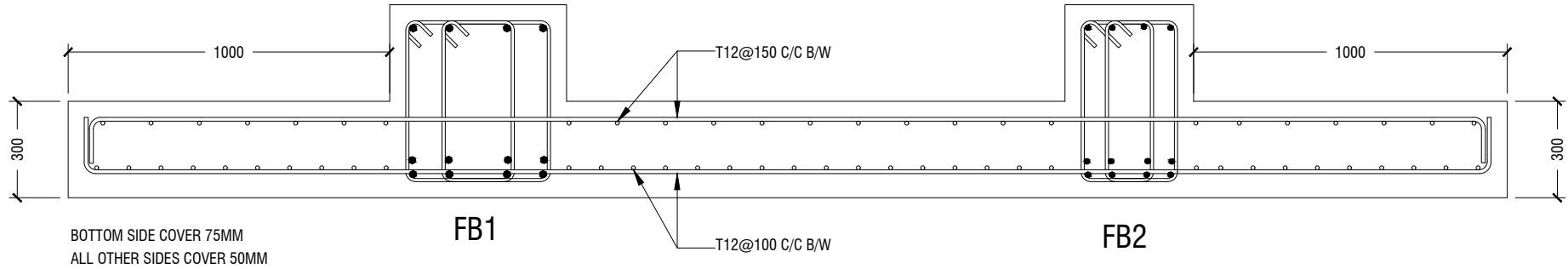
| | |
|---------------------------------|--|
| (C1) | |
| (C2) | |
| (C3) | |
| (C4) | |
| (C5) | |
| (C6) | |
| (SC) STIFFENER COLUMN | |

START FROM SECOND FLOOR SLAB ONWARDS

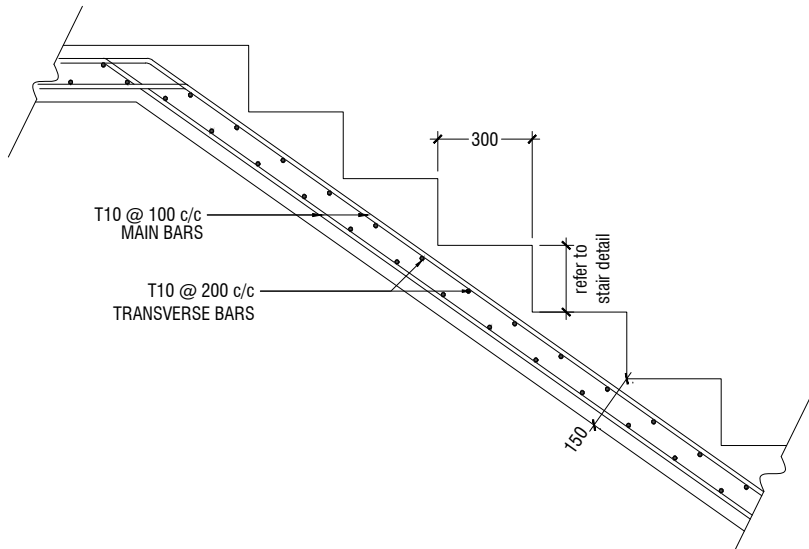
COLUMNS DETAIL

| | | |
|--------------|--|--|
| (FB1) | | |
| (FB2) | | |
| (FB3) | | |

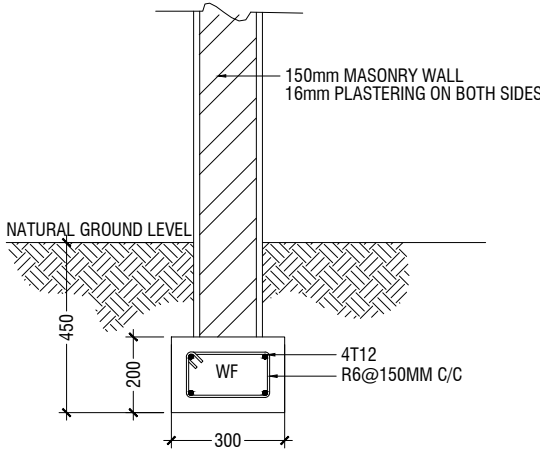
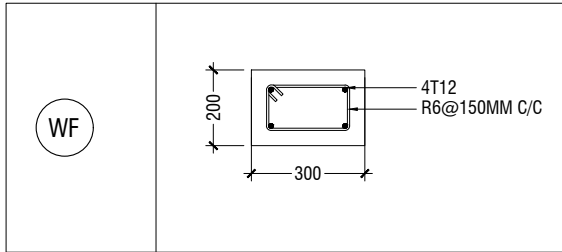
FOUNDATION BEAMS DETAIL



SECTION A-A RAFT SECTIONAL DETAIL

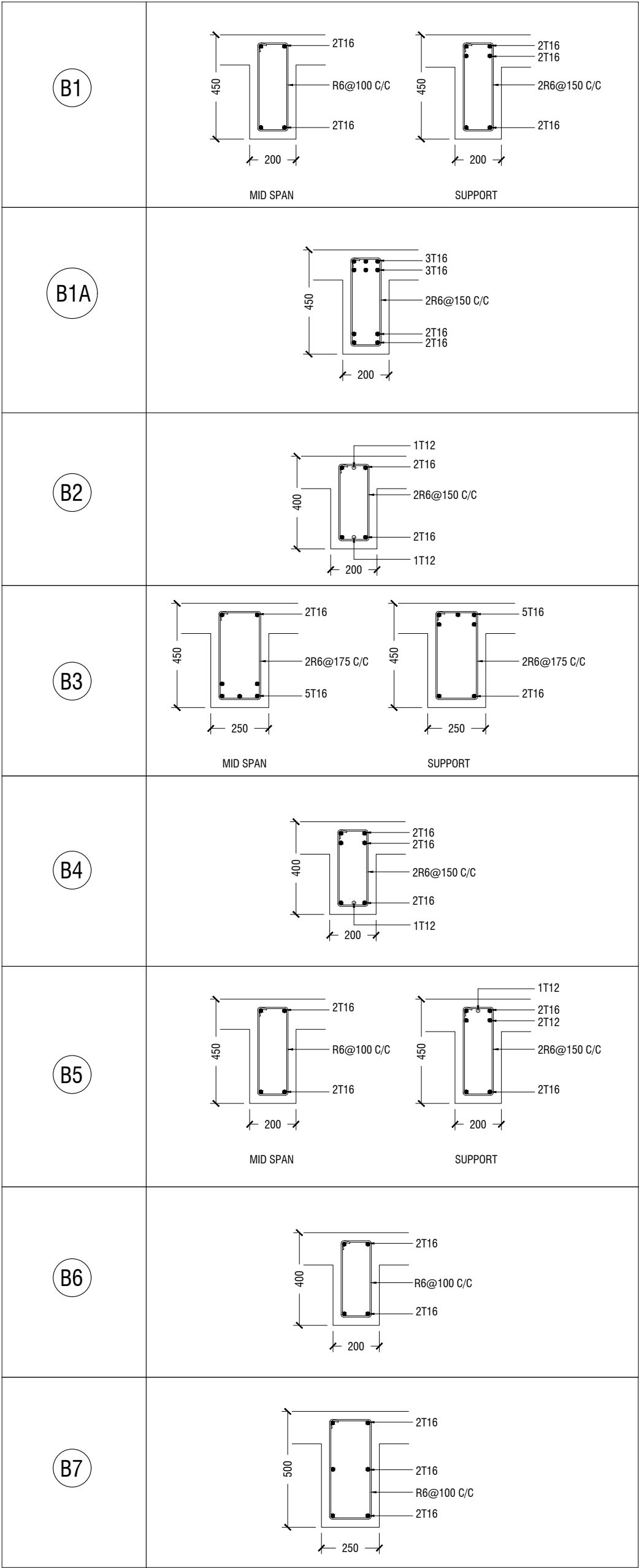


MAIN STAIRCASE REINFORCEMENT DETAIL



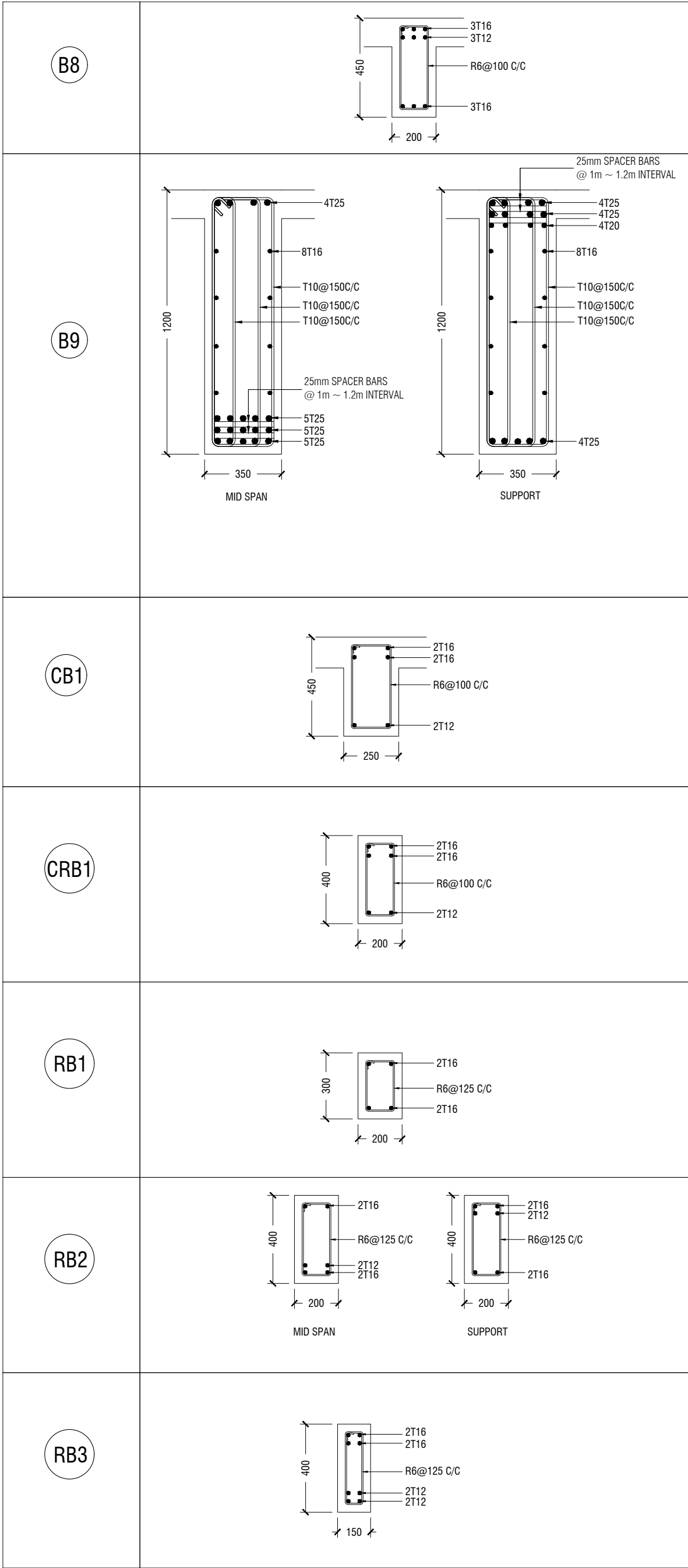
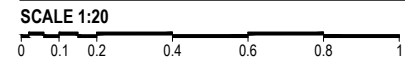
STAGE FRAMING MASONRY WALL DETAILS

| | | |
|--|------|-------------|
| | | |
| PROJECT : PROPOSED MULTIPURPOSE HALL & 6 CLASSROOM AT AA. BODUFOLHADHOO SCHOOL | | |
| PROJ. REF: SCALE : AS GIVEN | | |
| ARCHITECT : ENGINEER : DRAWN : CHECKED : DATE : 05.03.2023 | | |
| AMMENDMENTS | | |
| Issue | Date | Description |
| | | |
| DWG NO :S18 - 69 | | |

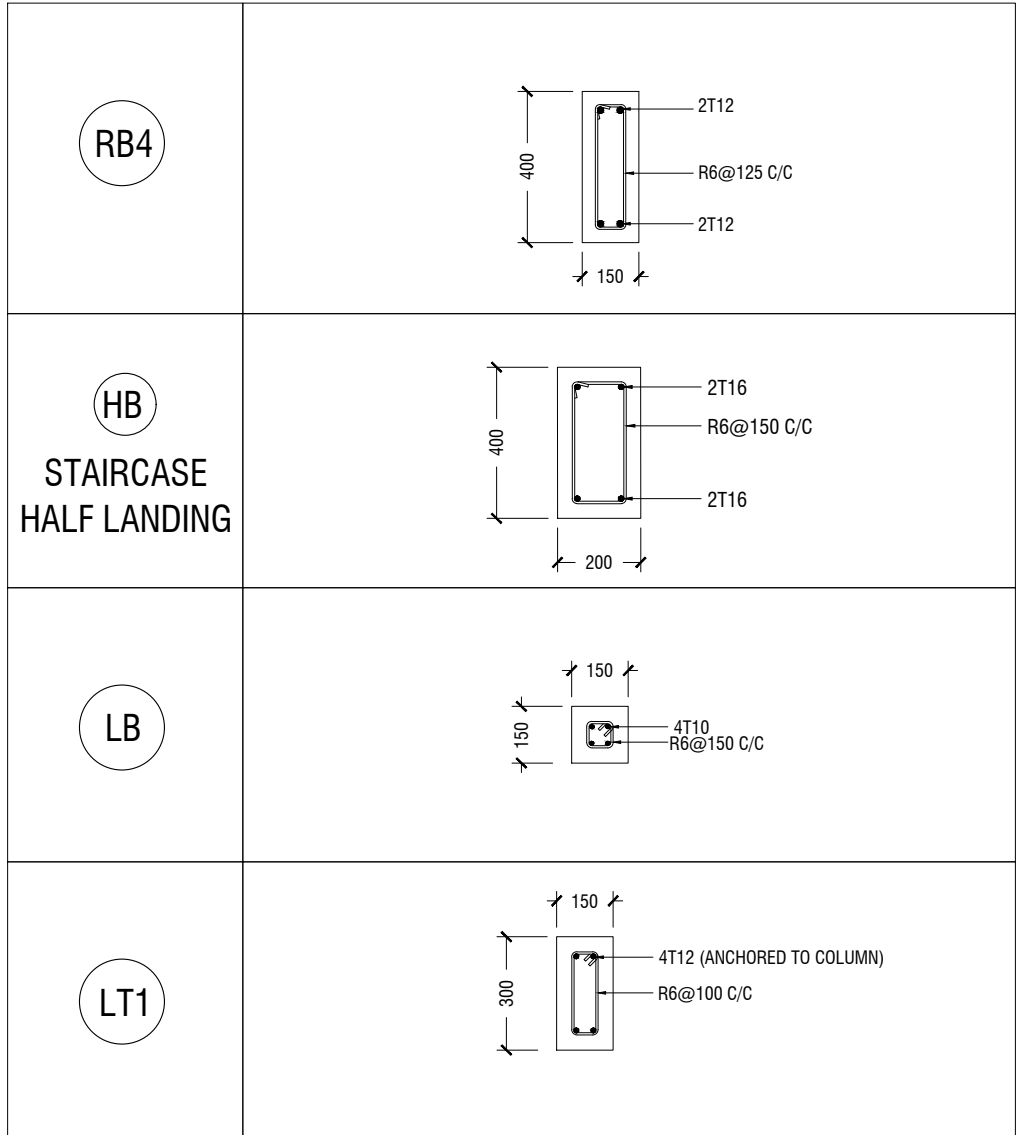


BEAMS DETAIL

STRUCTURAL DETAILS - 2

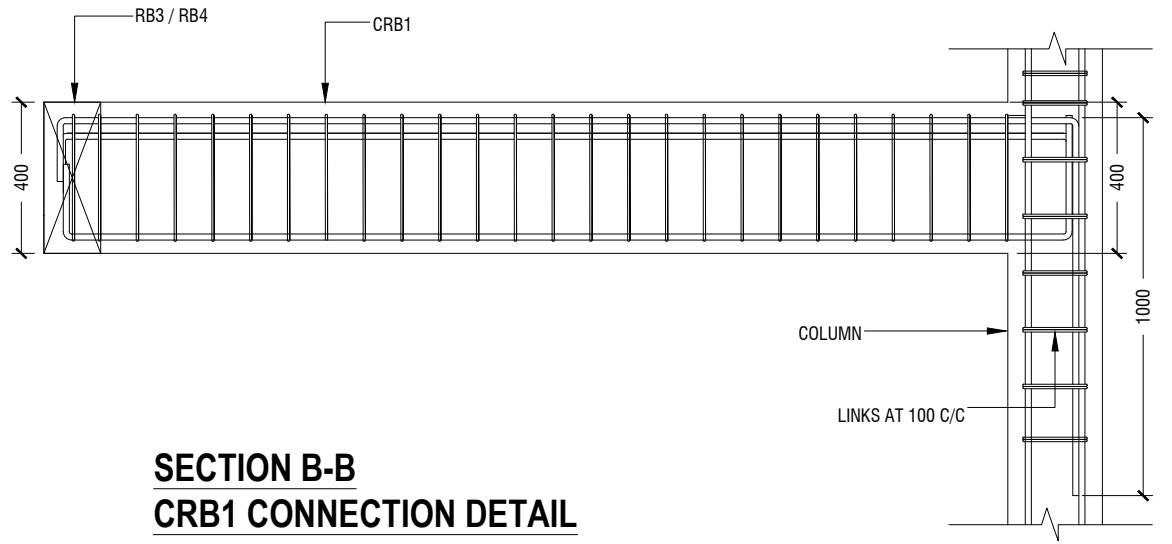


BEAMS DETAIL

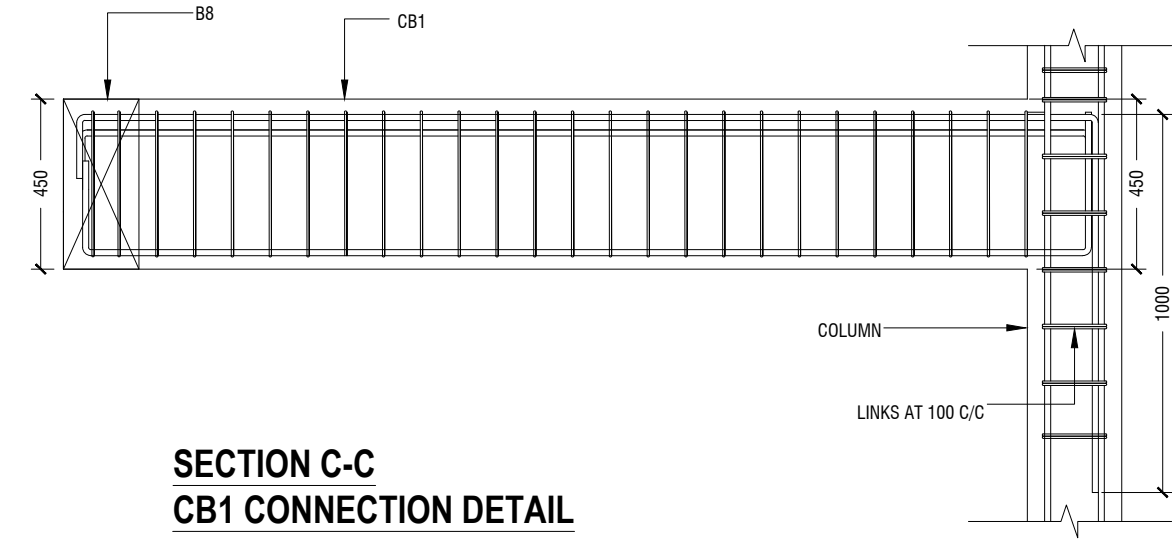


BEAMS DETAIL

LINTELS OVER ALL DOORS, WINDOWS
(THAT DOES NOT RISE TO ROOF BEAM LEVEL)

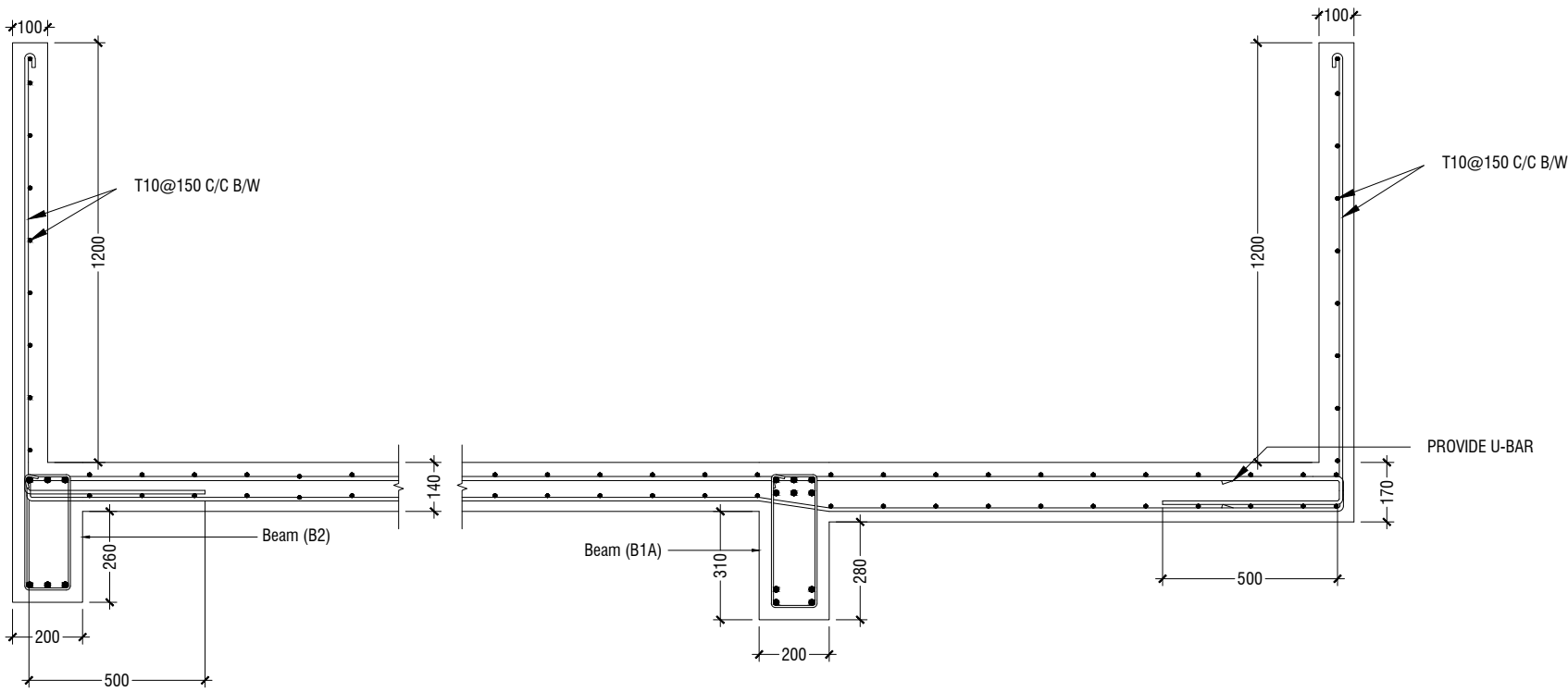


SECTION B-B
CRB1 CONNECTION DETAIL

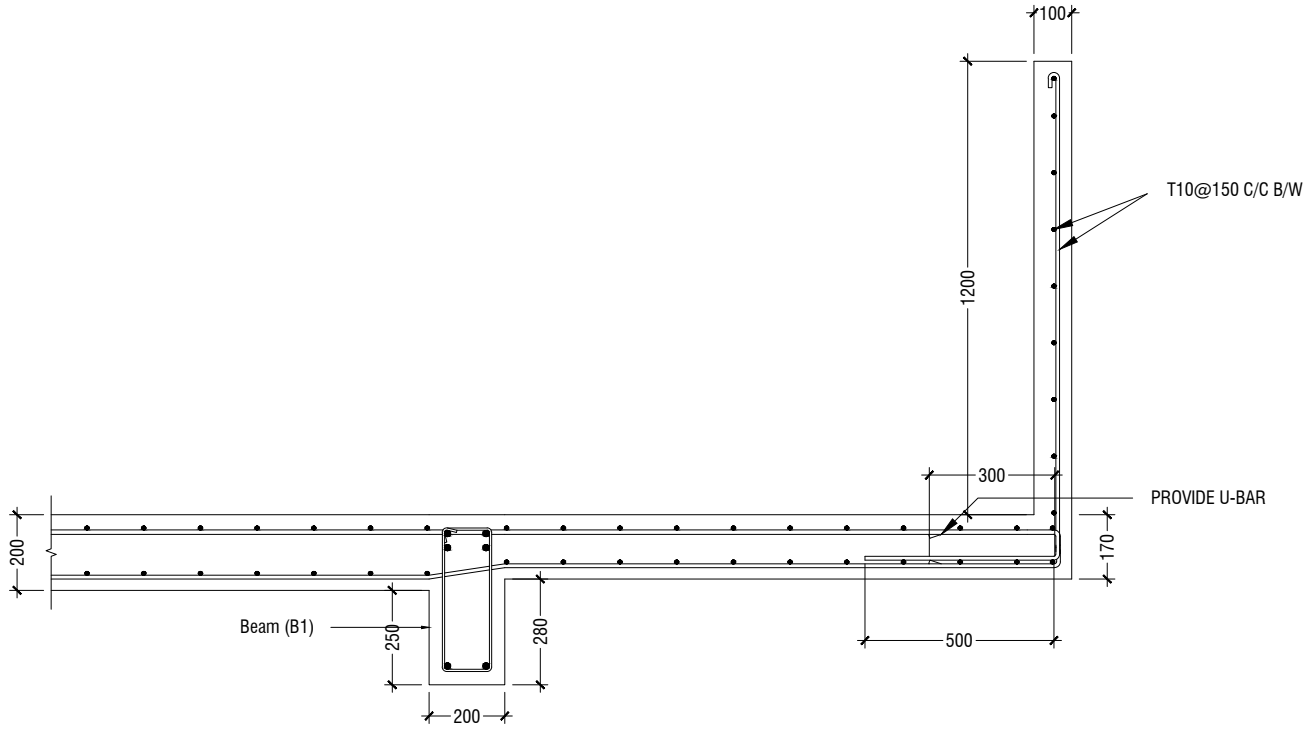


SECTION C-C
CB1 CONNECTION DETAIL

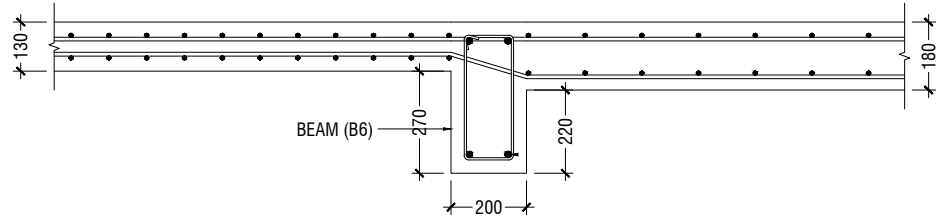
| | | |
|--|------|-------------|
| | | |
| PROJECT : PROPOSED MULTIPURPOSE HALL & 6 CLASSROOM AT AA. BODUFOLHADHOO SCHOOL | | |
| PROJ. REF : SCALE : AS GIVEN | | |
| ARCHITECT : ENGINEER : DRAWN : CHECKED : DATE : 05.03.2023 | | |
| AMMENDMENTS | | |
| Issue | Date | Description |
| | | |
| DWG NO :S19 - 69 | | |



SECTION D-D
FIRST FLOOR SLAB REINFORCEMENT CONNECTION DETAIL

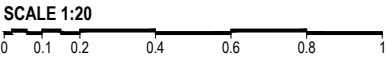



SECTION E-E
FIRST FLOOR SLAB REINFORCEMENT CONNECTION DETAIL



SECTION F-F
SLAB THICKNESS REDUCTION DETAIL

STRUCTURAL DETAILS - 3





PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

PROJECT :
**PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL**

PROJ. REF: _____

SCALE : AS GIVEN

ARCHITECT : _____

ENGINEER : _____

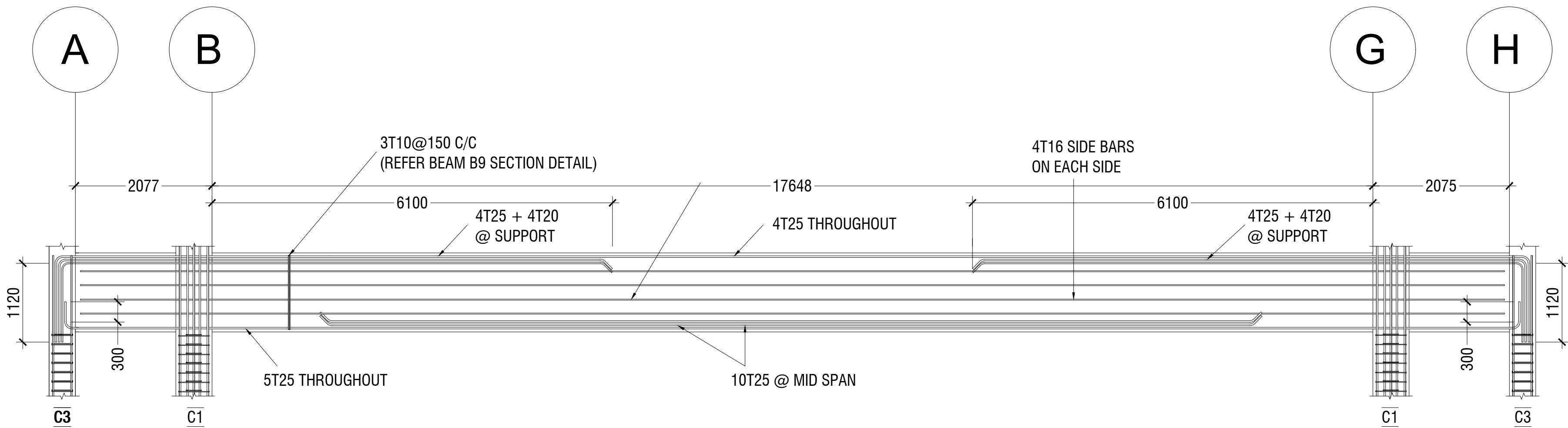
DRAWN : _____

CHECKED : _____

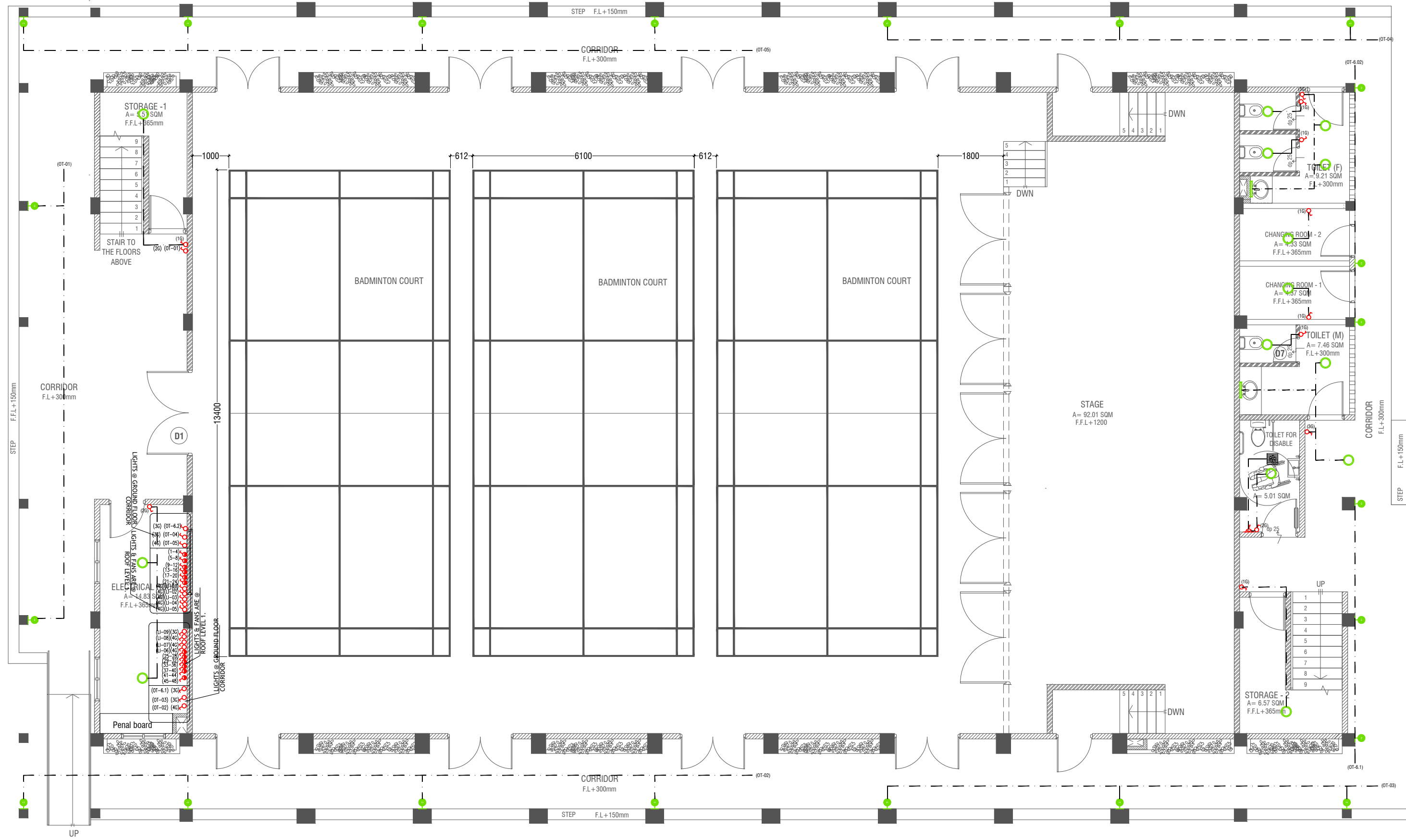
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |

DWG NO :SDS - 69



BEAM B9 LONGITUDINAL SECTION DETAIL



GROUND FLOOR LIGHTING LAYOUT

SCALE 1:100
0 0.5 1 2 3 4 5

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 FAN (CEILING MOUNTED)

FLEX OUTLET

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"

PROJECT :

PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF:

SCALE : AS GIVEN

ARCHITECT :

ENGINEER :

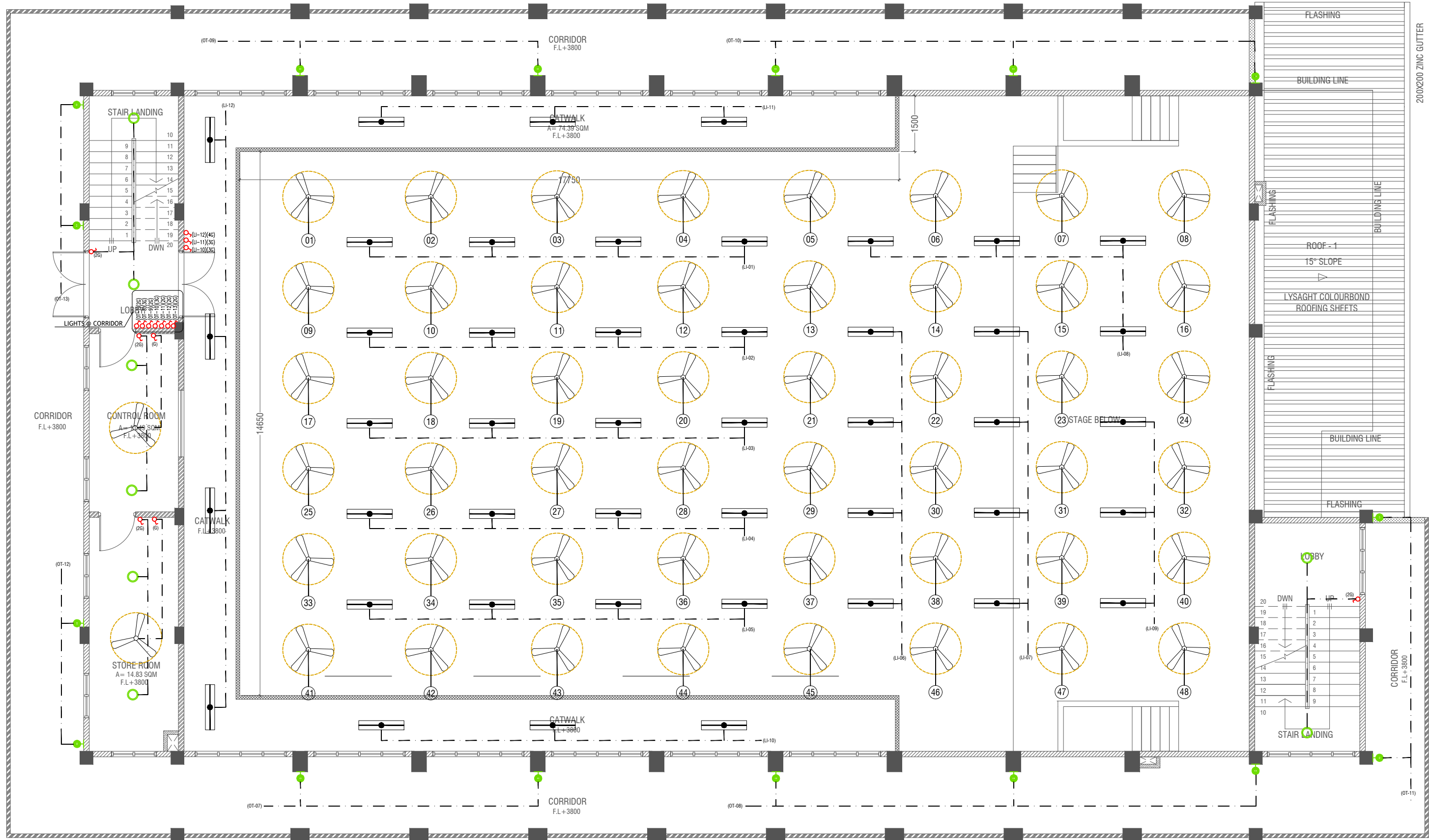
DRAWN :

CHECKED :

DATE : 05.03.2023

AMMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |
| | | |



FIRST FLOOR LIGHTING LAYOUT

SCALE 1:100
0 0.5 1 2 3 4 5

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:

- 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

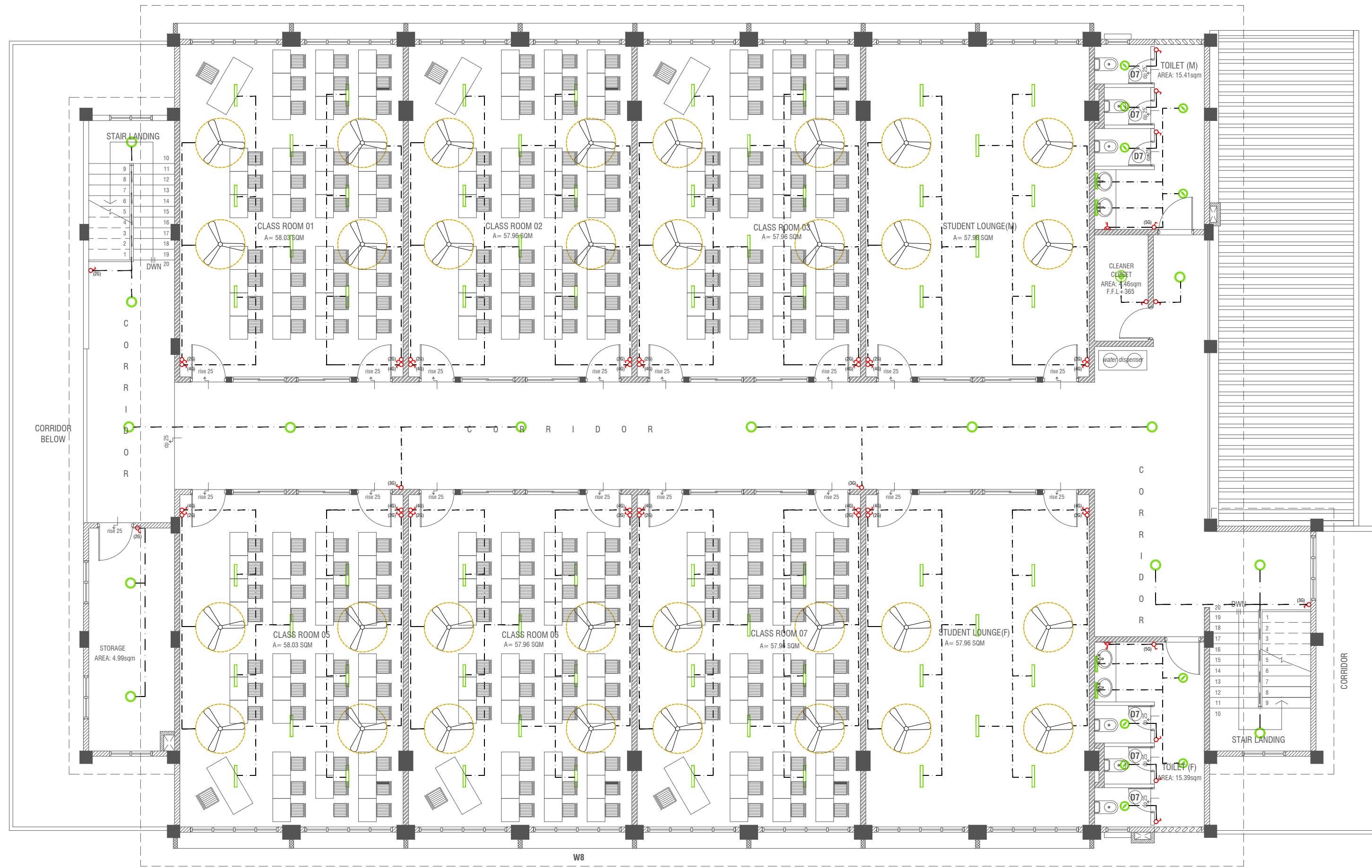
NOTE:

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

PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |



SECOND FLOOR LIGHTING LAYOUT

SCALE 1:100



LEGEND

- WP 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")

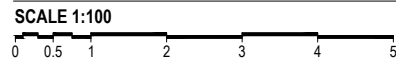
NOTE:

- ALL WIRINGS 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

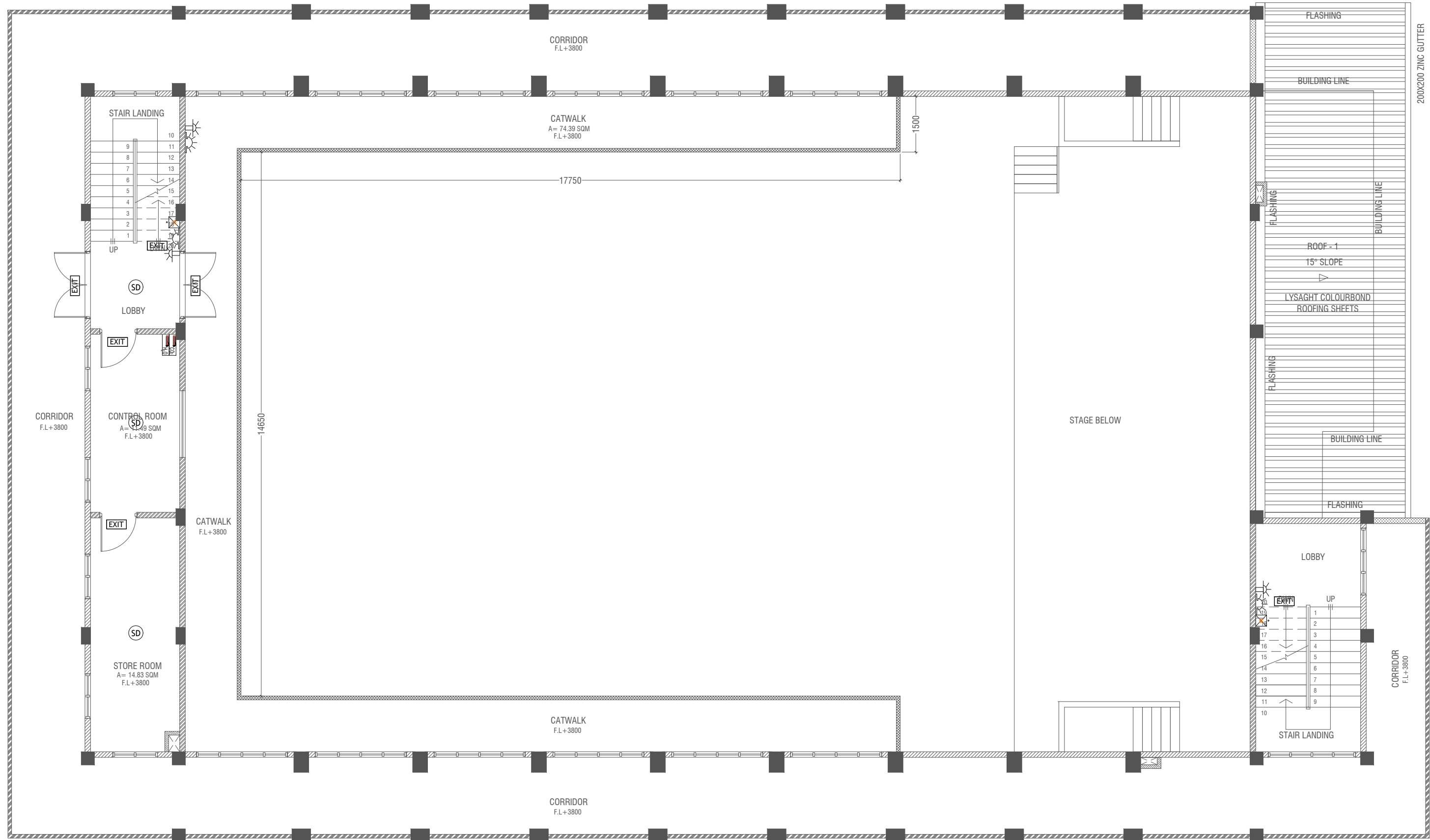
PROJECT :
**PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL**

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |



DWG NO :F01 - 69



FIRST FLOOR FDP LAYOUT

SCALE 1:100
0 0.5 1 2 3 4 5

LEGEND

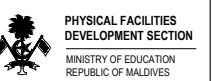
- SD SMOKE DETECTOR
- HD HEAT DETECTOR
- EXIT EXIT SIGN
- EM EMERGENCY LIGHT

- CO₂ EXTINGUISHER (LOAD 25KG IN POLYCARBONATE ENCLOSURE(TYP.))
- WET CHEMICAL FIRE EXTINGUISHER (LOAD 7.3KG)
- HLA EXTINGUISHER (LOAD 9L IN POLYCARBONATE ENCLOSURE(TYP.))

LEGEND

- ELR END OF LINE RESISTANCE
- FACP FIRE ALARM CONTROL PANEL
- MANUAL CALL POINT (PUSHABLE)
- BEACON
- SOUNDER BELL (15 DB)

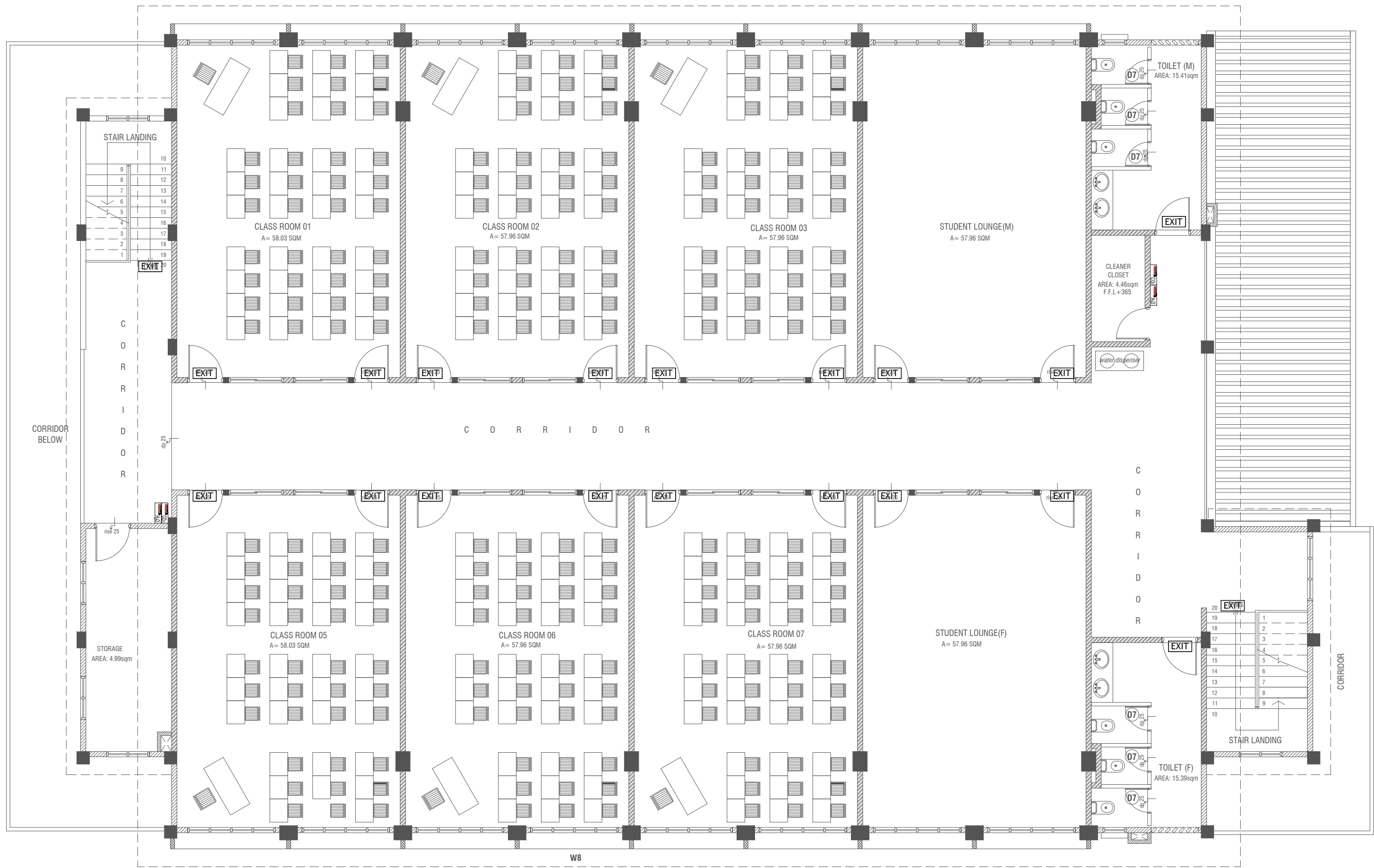
- ALL FIRE RATED DOOR SHOULD COME WITH PACKING (SPRINGER SEAL 15MM)
- 1. ALL PIPES SHOULD BE GALVANIZED SCHEDULE 40.
- 2. ALL PIPES SHALL BE PAINTED IN RED AS PER REGULATION.
- 3. ALL SUPPORT BRACKET SHALL BE HOT DIPPED GALVANIZED TO 1000µm.
- 4. ALL FIRE EXTINGUISHER INSIDE CABINETS. (CABINET SHOULD BE PROVIDED)



PROJECT :
PROPOSED MULTIPURPOSE HALL & 6 CLASSROOM AT AA. BODUFOLHADHOO SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |



SECOND FLOOR FDP LAYOUT

SCALE 1:100
0 0.5 1 2 3 4 5

LEGEND

- EXIT SIGN
- CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- H₂O 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)

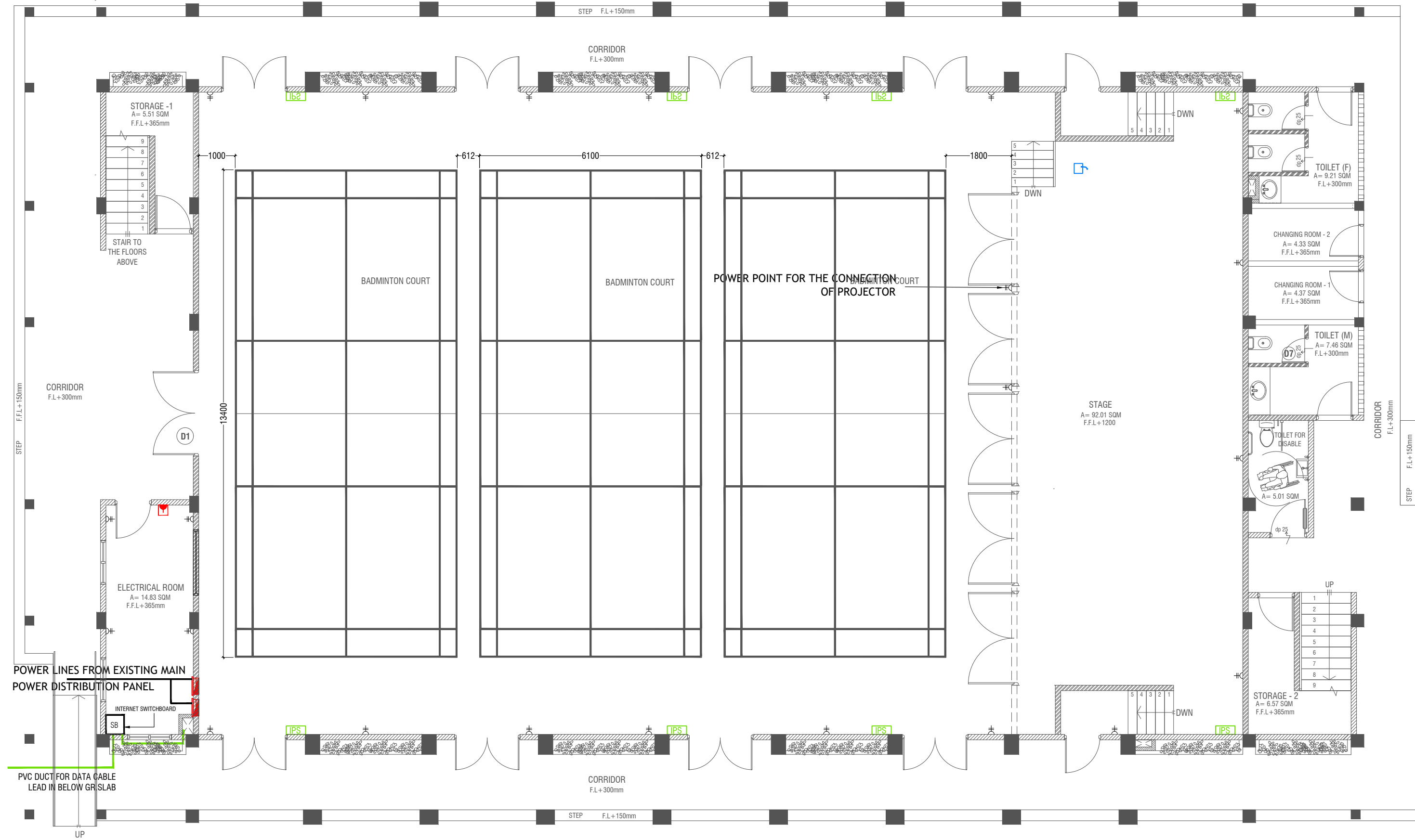
-IF THE INSTALLATION OF CEILING IS CARRIED OUT LOWER THAN BEAM BOTTOM, SMOKE DETECTORS SHOULD BE PLACED AS INDICATED ON THE DRAWING.
-ALTERNATIVELY IF THE INSTALLATION OF CEILING IS CARRIED OUT EQUAL TO BEAM BOTTOM OR IF THE CEILING IS NOT INSTALLED , SMOKE DETECTORS ARE TO BE PLACED IN BETWEEN EACH BEAM



PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |



GROUND FLOOR POWER LAYOUT

SCALE 1:100
0 0.5 1 2 3 4 5

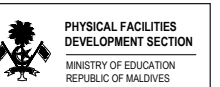
- PHONE EXTENSION
- COMPUTER NETWORK OUTLET (RJ 45 CONNECTORS)
- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER POINT
- 13A TWIN SOCKET OUTLET
- 15A.SWITCHED/ SPUR UNIT @ H.L.
- DISTRIBUTION BOX
- IP SPEAKERS AT 3m
- WIRED MIC CONTROLLED FROM THE CONTROL ROOM

- 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

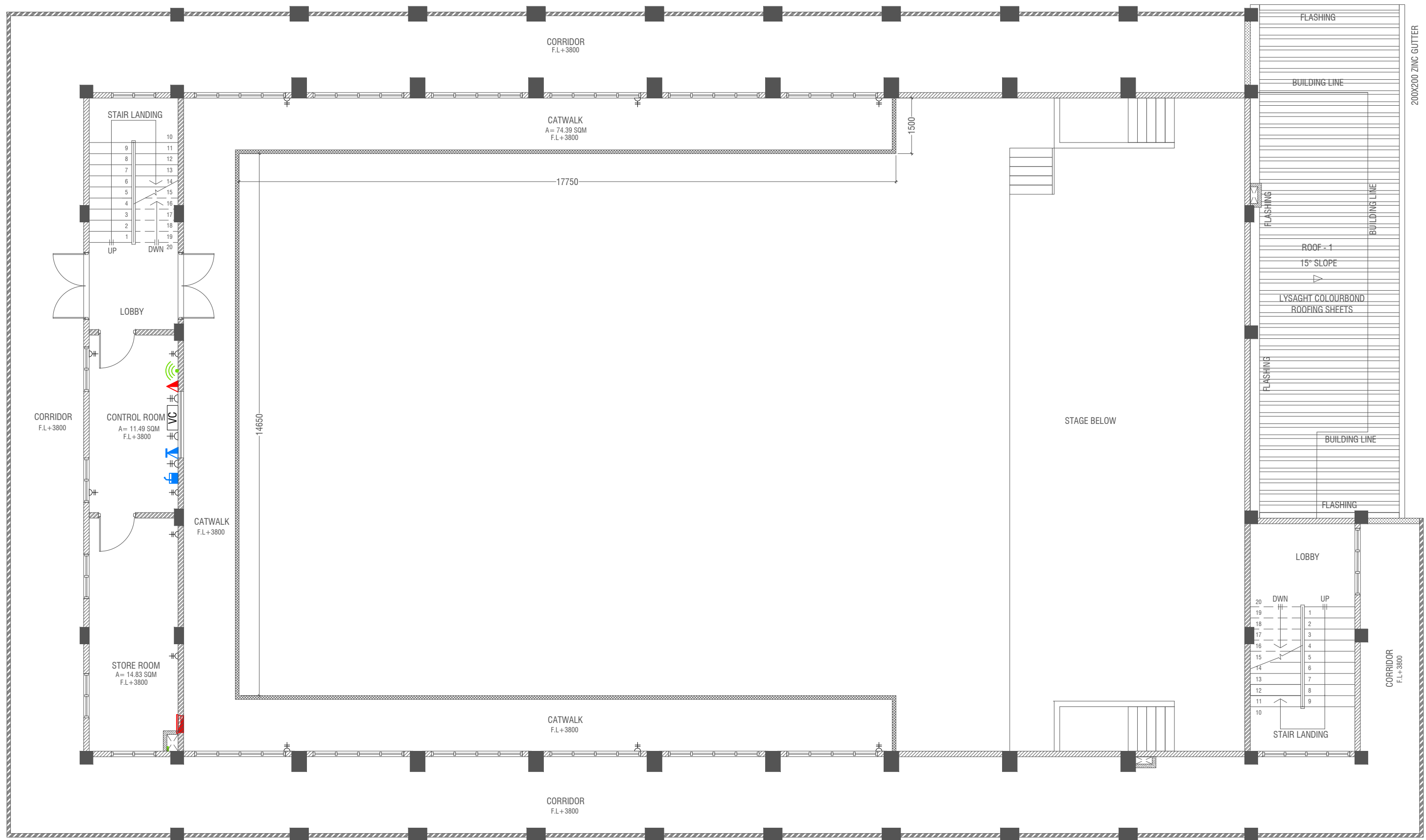
TO SUPPLY AND INSTALL PANEL BOARD WITH KWH METER. WIRING AND CONNECTION TO MAIN PANEL BOARD FROM MAIN ELECTRICAL NETWORK TO BE DECIDED ON SITE (PANEL BOARD SHALL BE LOCATED AT ELECTRICAL ROOM)



PROJECT :
PROPOSED MULTIPURPOSE HALL & 6 CLASSROOM AT AA. BODUFOLHADHOO SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |



FIRST FLOOR POWER LAYOUT

SCALE 1:100
0 0.5 1 2 3 4 5

LEGEND

- DATA POINT
- 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

- PUBLIC ADDRESS SYSTEM
- PHONE EXTENSION

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

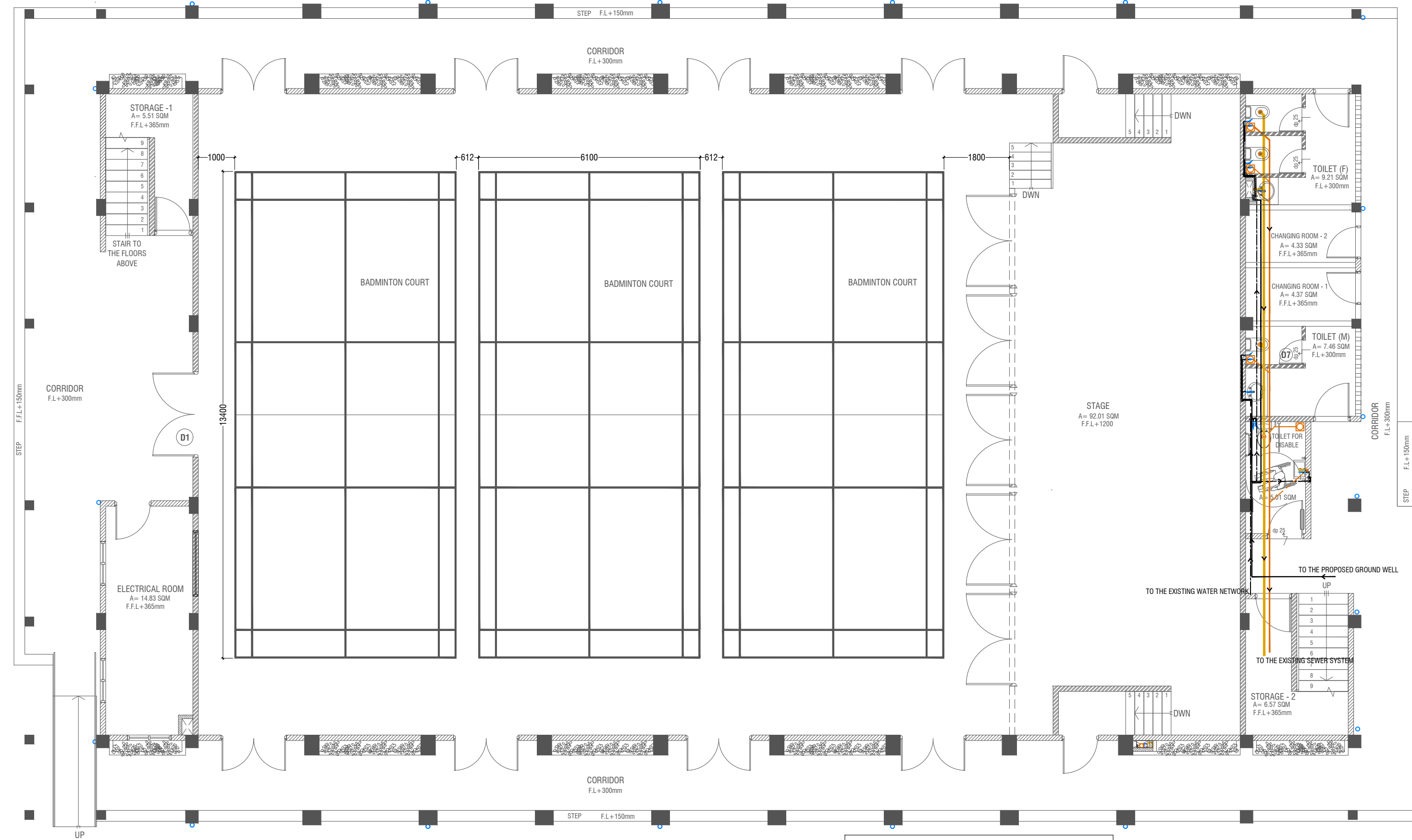
TO SUPPLY AND INSTALL PANEL BOARD WITH kWh METER. WIRING AND CONNECTION TO MAIN PANEL BOARD FROM MAIN ELECTRICAL NETWORK TO BE DECIDED ON SITE



PROJECT :
PROPOSED MULTIPURPOSE HALL & 6 CLASSROOM AT AA. BODUFOLHADHOO SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |



GROUND FLOOR PLUMBING & DRAINAGE LAYOUT

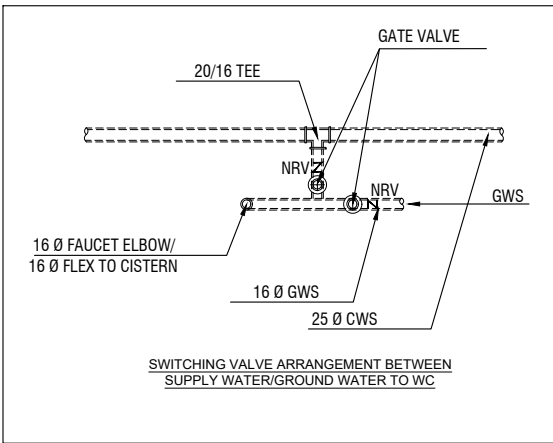
SCALE 1:100



LEGEND

- FC 160 COLD WATER SUPPLY FAUCET / WALL TAP/SINK
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

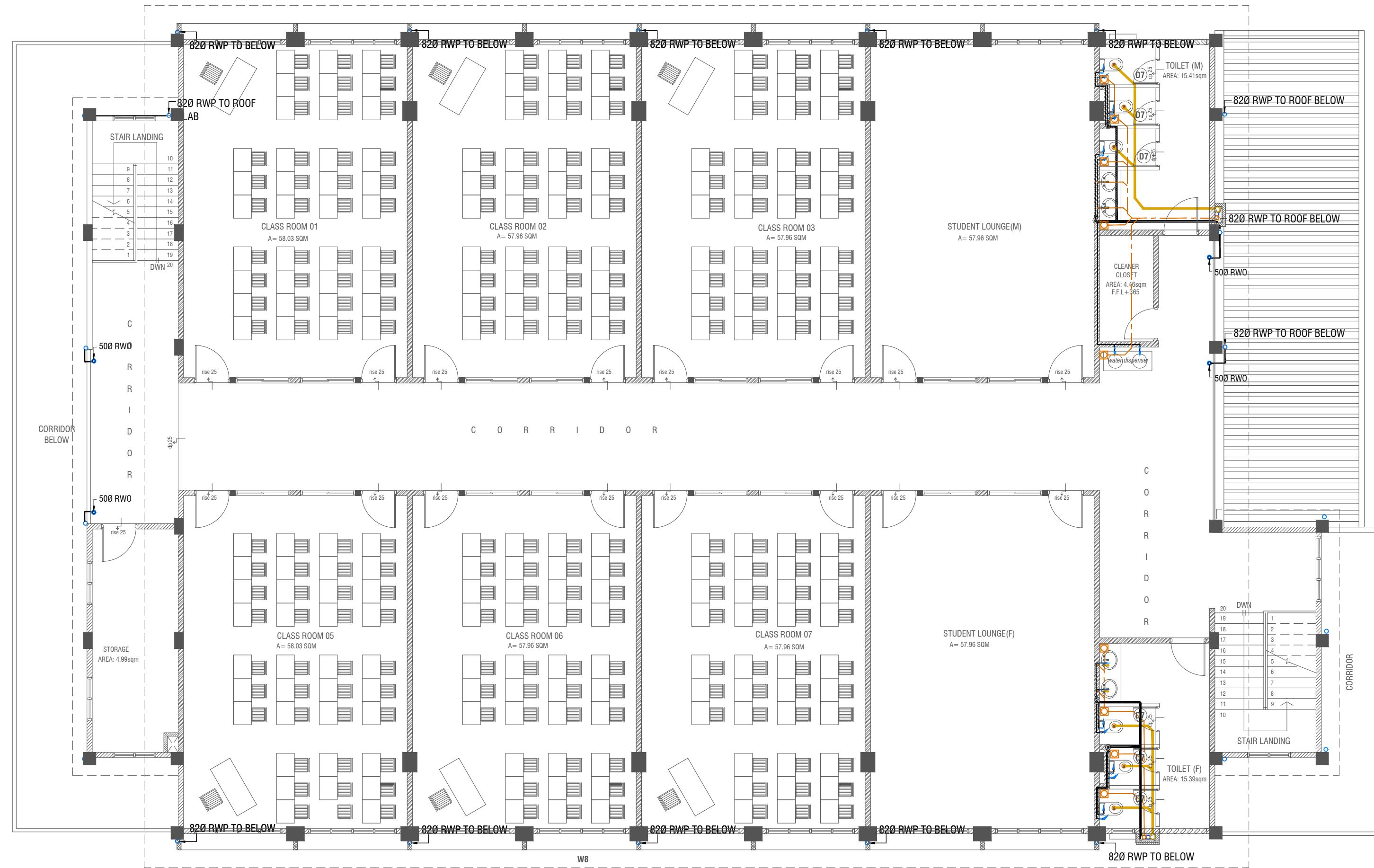


NOTE:
- ALL RAINWATER PIPES TO BE AT GROUND LEVEL DISCHARGED THROUGH A PERFORATED COWL OR TO A SOAK PIT
- ALL SOIL AND WASTE PIPES TO BE AT GROUND LEVEL UNDER THE SLAB
- ALL COLD WATER PIPES SHOULD BE CPVC

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

NOTE:
- GROUND WATER WELL IS USED ONLY FOR FLUSHING, UNLESS FOR ANY OTHER PURPOSES, DUE TO THE ABSENCE OF SUPPLY WATER

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |



SECOND FLOOR DRAINAGE LAYOUT

SCALE 1:100

LEGEND

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

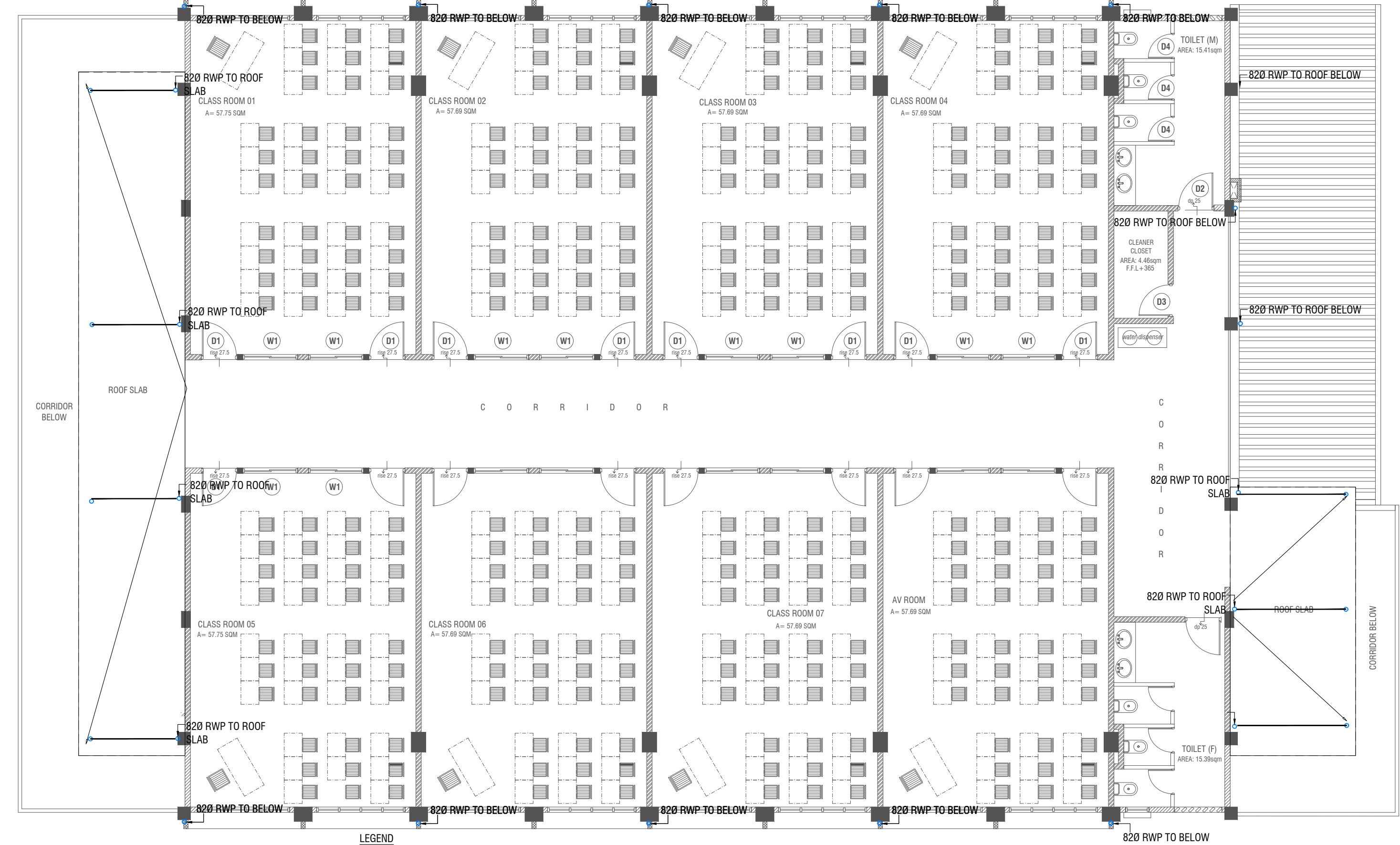
NOTE:
- GROUND WATER WELL IS USED ONLY FOR FLUSHING. UNLESS FOR ANY OTHER PURPOSES, DUE TO THE ABSENCE OF SUPPLY WATER



PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |



LEGEND

- | | | | | | | |
|----|---|-------|---|---|-----------------------------------|------------------------|
| FC | 160 COLD WATER SUPPLY FAUCET / WALL TAP/SINK | — | 250 COLD WATER SUPPLY PIPES RUNNING UNDERGROUND | — | 500 WASTE PIPE (CPVC PIPE) | |
| GV | 160 COLD WATER SUPPLY TO CISTERN | - - - | 250 COLD WATER SUPPLY PIPES RUNNING ABOVE FALSE CEILING | — | 820 MANHOLE VENT PIPE (CPVC PIPE) | |
| GV | GATE VALVE | □ | FLOOR DRAIN | — | BOTTLE TRAP | |
| ⊗ | RISE IN WALL | □ | FLOOR GULLY | — | GROUND WATER SUPPLY | |
| ⊗ | DROP IN WALL | — | 1100 SOIL PIPE (CPVC PIPE) | — | RWP | 82/50 Ø RAINWATER PIPE |
| — | 320 COLD WATER SUPPLY PIPES RUNNING UNDERGROUND | — | 820 WASTE PIPE (CPVC PIPE) | — | RWO | 82/50 Ø DRAIN OUTLET |
| — | 250 COLD WATER SUPPLY PIPES RUNNING IN WALLS | — | 400 WASTE PIPE (CPVC PIPE) | — | CD | 25 Ø DRAIN PIPE |
| | | | | | MHVP | 50 Ø MANHOLE VENT PIPE |

NOTE:
- GROUND WATER WELL IS USED ONLY FOR FLUSHING, UNLESS FOR ANY OTHER PURPOSES, DUE TO THE ABSENCE OF SUPPLY WATER

ROOF -1 DRAINAGE LAYOUT

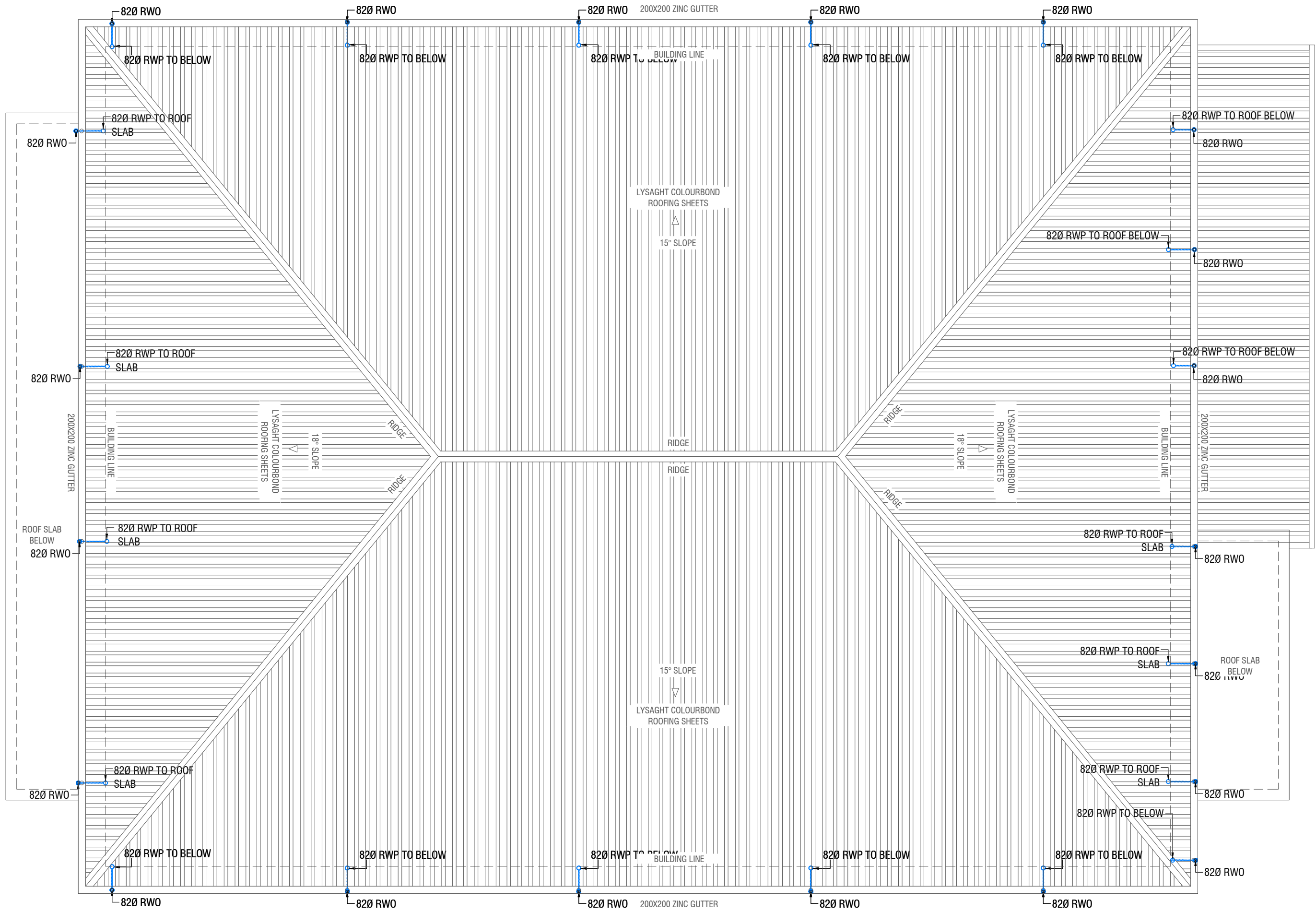
SCALE 1:100



PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |



ROOF PLAN - 2 DRAINAGE LAYOUT

SCALE 1:100
0 0.5 1 2 3 4 5

- LEGEND
- 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



PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF: _____

SCALE : AS GIVEN

ARCHITECT : _____

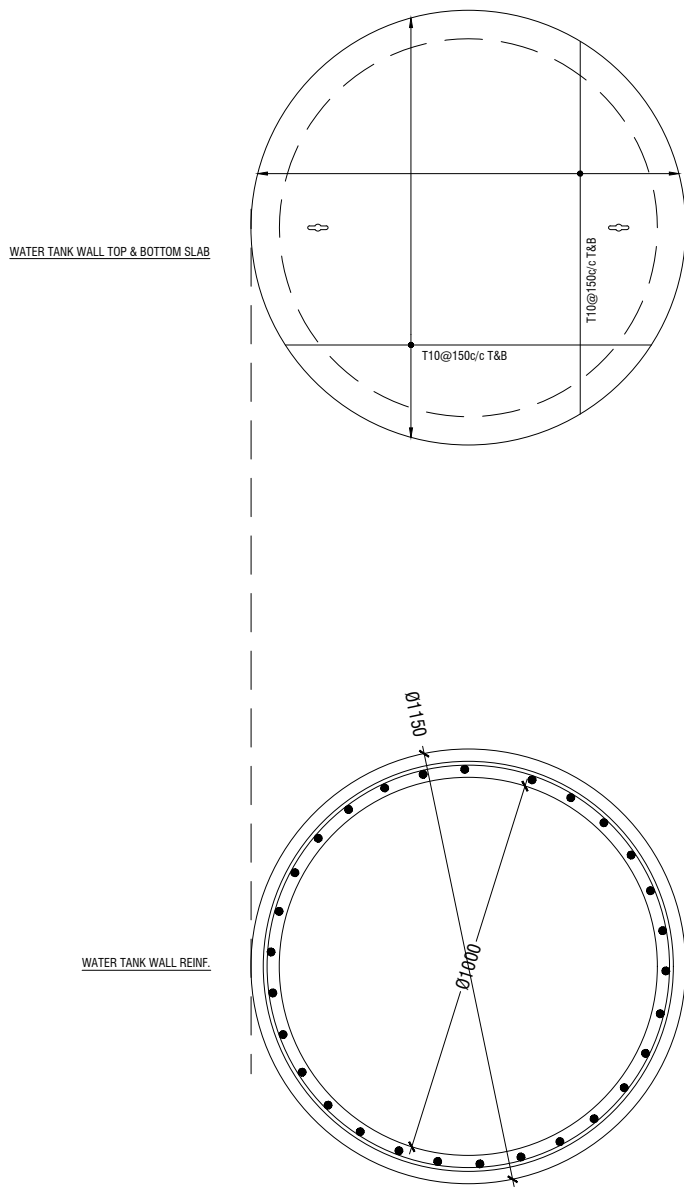
ENGINEER : _____

DRAWN : _____

CHECKED : _____

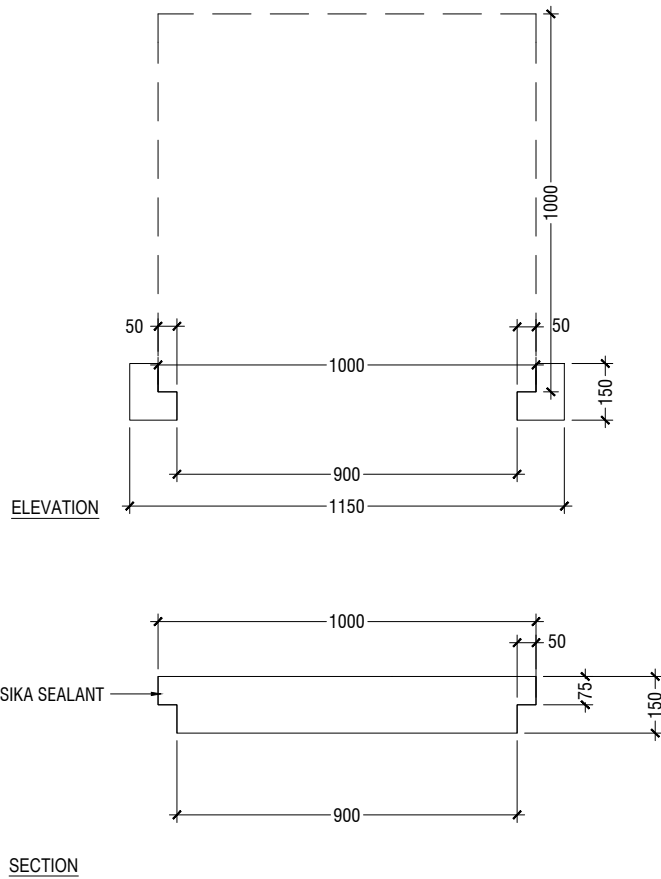
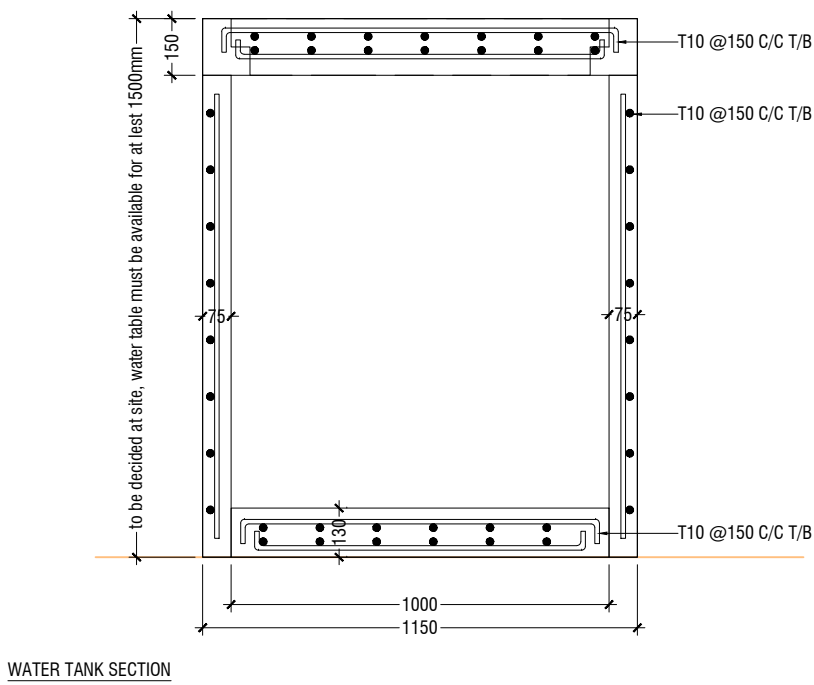
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |

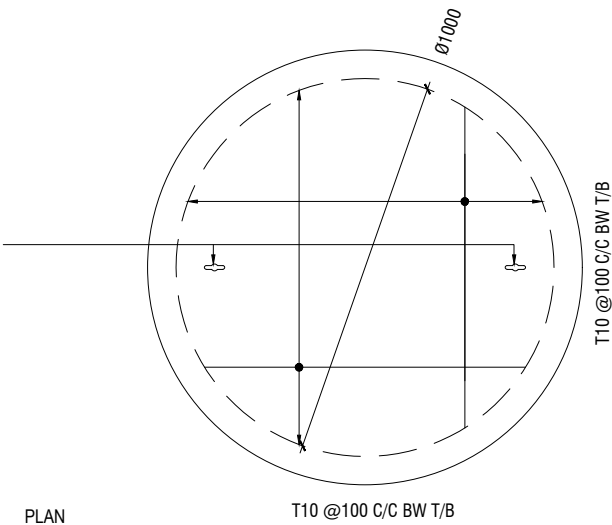


WATER TANK DETAILS

SCALE 1:20



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

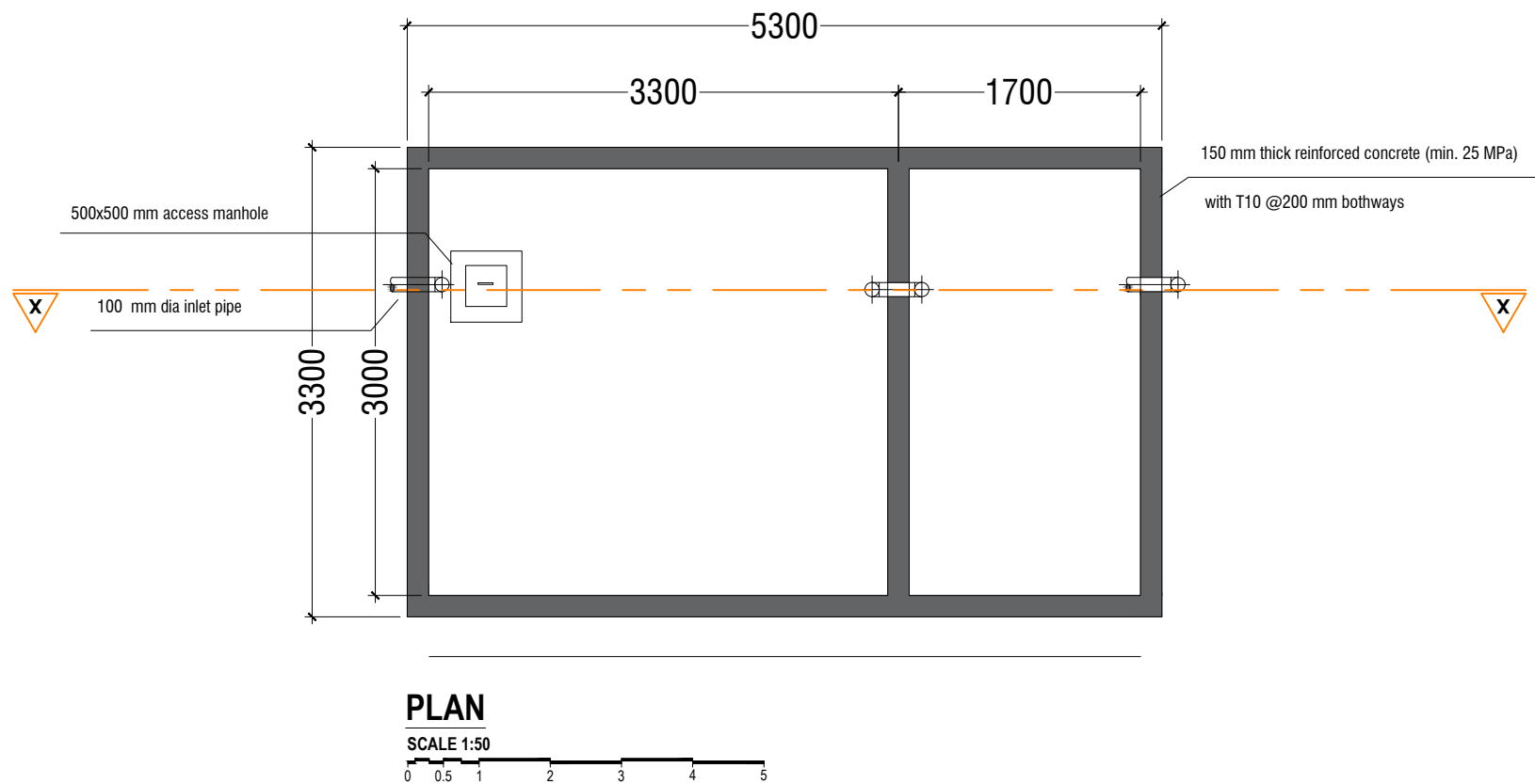


WATER TANK LID DETAILS

SCALE 1:20

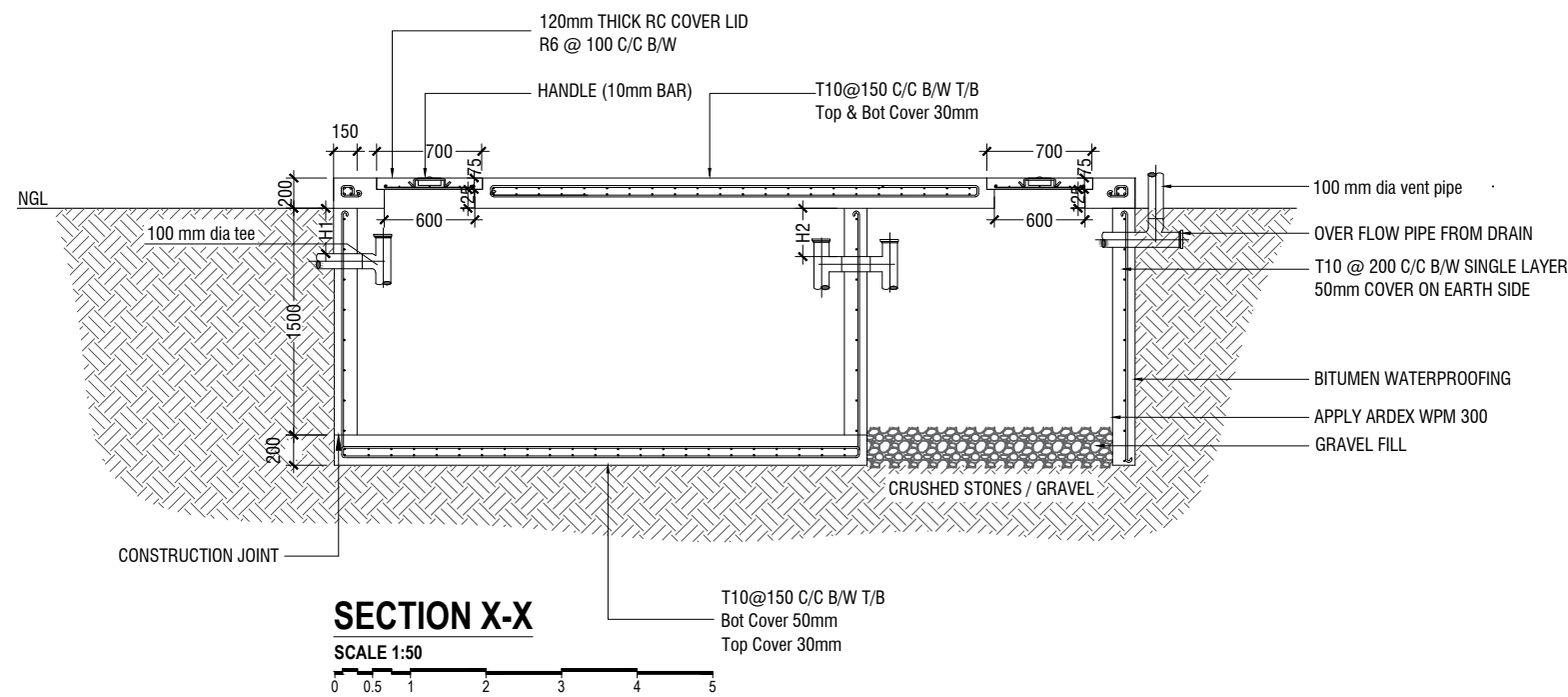


| | | |
|---|------|-------------|
| PHYSICAL FACILITIES DEVELOPMENT SECTION MINISTRY OF EDUCATION REPUBLIC OF MALDIVES | | |
| PROJECT : PROPOSED MULTIPURPOSE HALL & 6 CLASSROOM AT AA. BODUFOLHADHOO SCHOOL | | |
| PROJ. REF: _____ | | |
| SCALE : AS GIVEN | | |
| ARCHITECT : _____ | | |
| ENGINEER : _____ | | |
| DRAWN : _____ | | |
| CHECKED : _____ | | |
| DATE : 05.03.2023 | | |
| AMMENDMENTS | | |
| Issue | Date | Description |
| | | |
| | | |
| | | |
| DWG NO :SP06 - 69 | | |



SEPTIC TANK DETAIL

SCALE 1:50



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

PROJECT :
**PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL**

PROJ. REF:

SCALE : AS GIVEN

ARCHITECT :

ENGINEER :

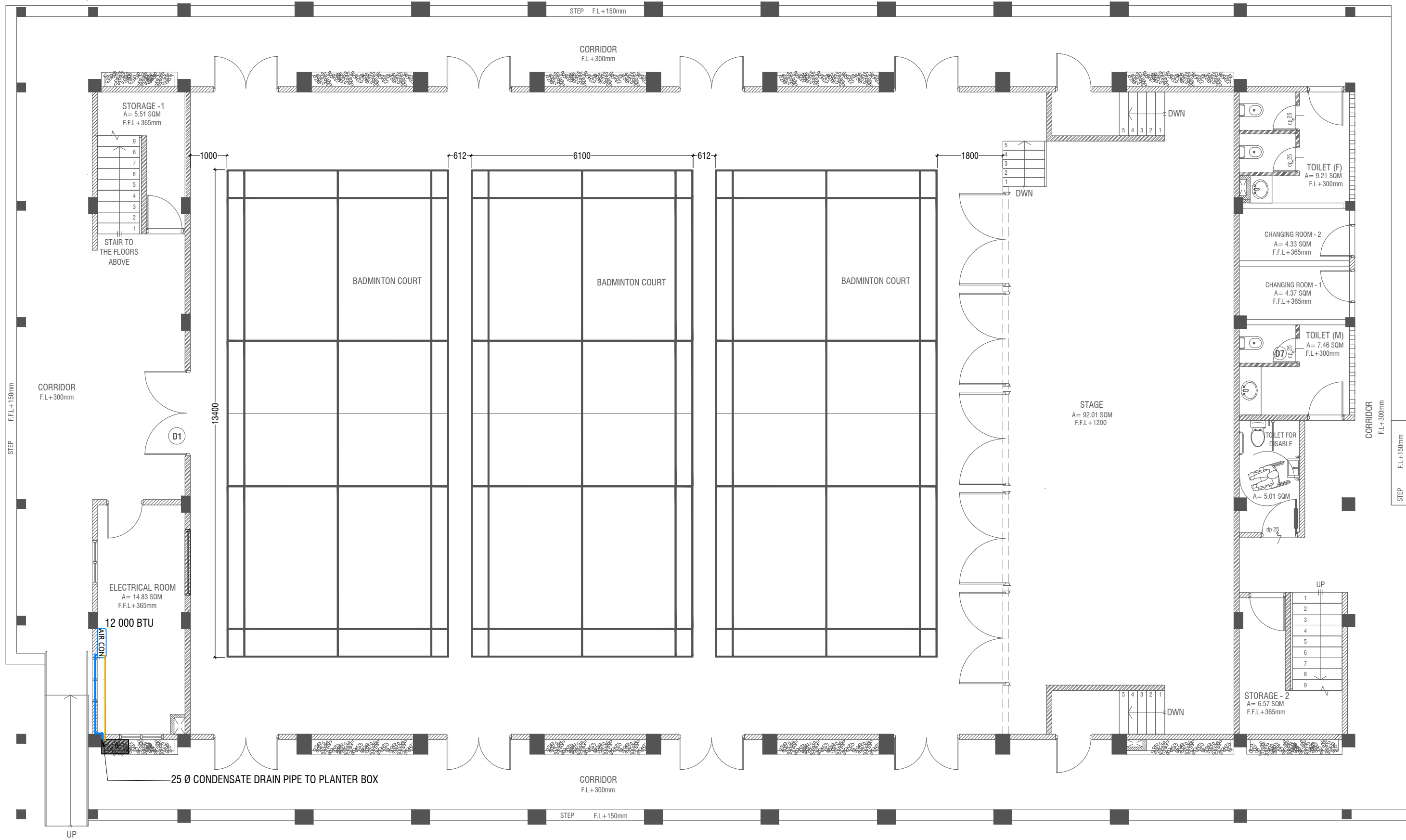
DRAWN :

CHECKED :

DATE : 05.03.2023

AMMENDMENTS

| Issue | Date | Description |
|-------|------|-------------|
| | | |
| | | |
| | | |



GROUND FLOOR ACV LAYOUT

SCALE 1:100
0 0.5 1 2 3 4 5

LEGEND

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



PROJECT :
PROPOSED MULTIPURPOSE
HALL & 6 CLASSROOM AT
AA. BODUFOLHADHOO
SCHOOL

PROJ. REF :
SCALE : AS GIVEN
ARCHITECT :
ENGINEER :
DRAWN :
CHECKED :
DATE : 05.03.2023

| AMMENDMENTS | | |
|-------------|------|-------------|
| Issue | Date | Description |
| | | |
| | | |