

Proposed 11 Classroom, Staff Room, Science Lab & Computer Lab at
Keyodhoo School, V. Keyodhoo
(04 Storey)




ARCHITECTURAL & STRUCTURAL DRAWINGS

Client: Ministry of Education

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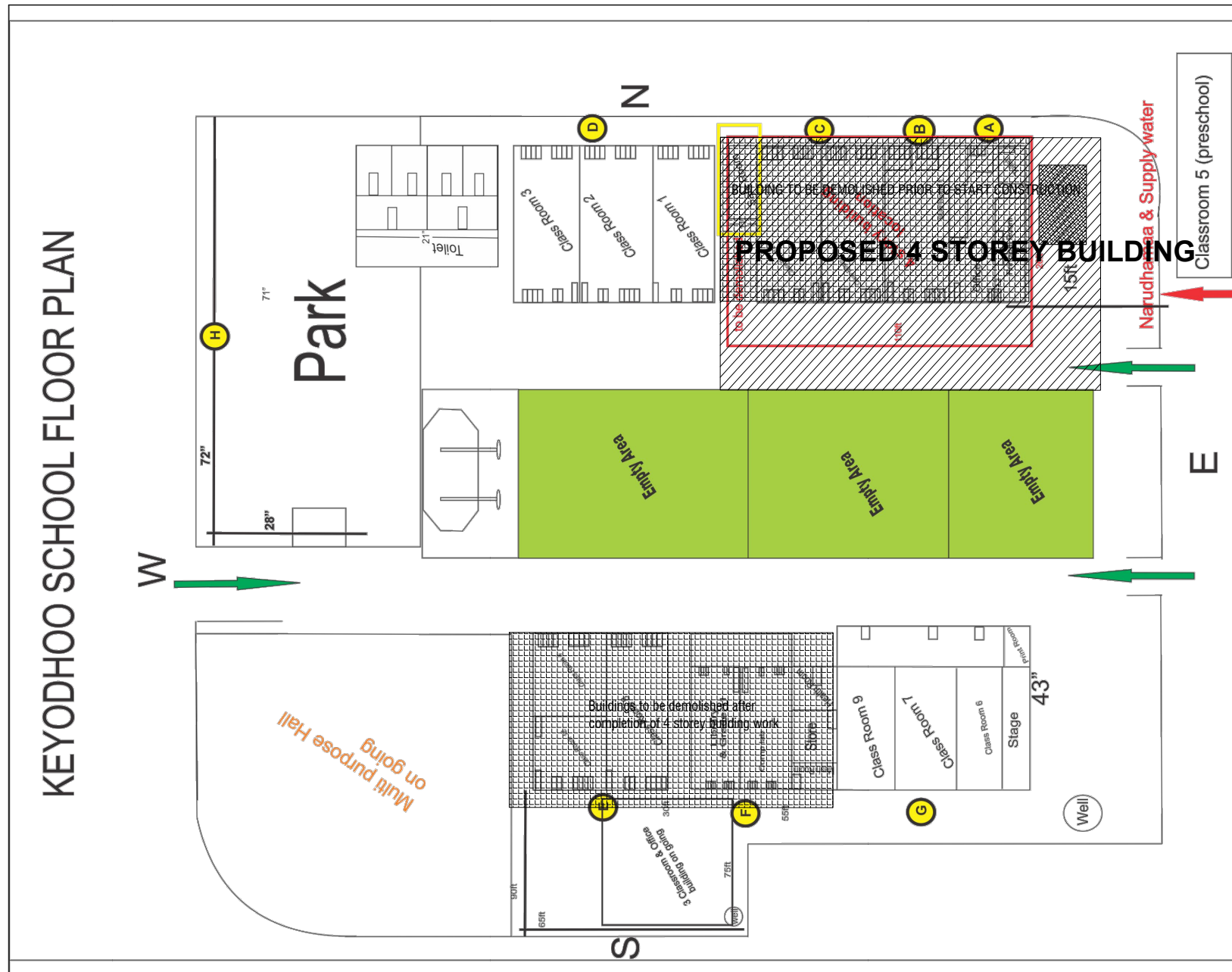
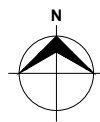
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NOTE:

-  PROPOSED BUILDING LOCATION
-  INFRASTRUCTURES THAT NEEDS TO BE DEMOLISHED WITH ITS FOUNDATION ARE INCLUDED IN THE SITE PLAN (SINGLE STOREY BUILDING)
-  EXISTING SEWAGE JUNCTION TO BE DEMOLISHED
- GROUND WATER LEVEL OF THE SITE IS 300MM FROM NATURAL GROUND LEVEL

SITE PLAN

SCALE 1:100



PHYSICAL FACILITIES
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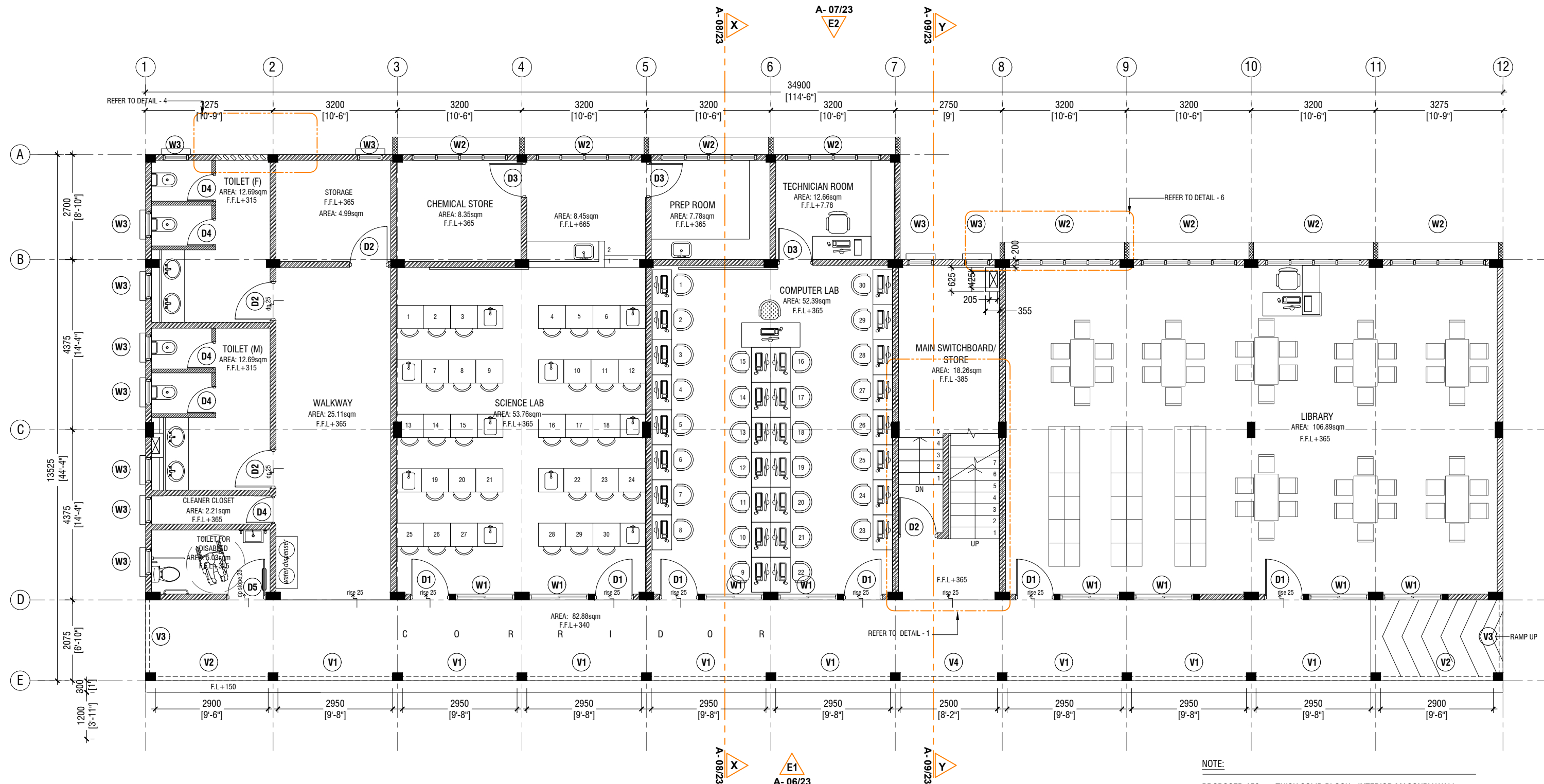
V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
Client: Ministry of Education

Project Number:
Date: 23 August 2023
Architect :
Engineer :
Drawn by :
Services :
Interior : -

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GROUND FLOOR PLAN
SCALE 1:100

V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
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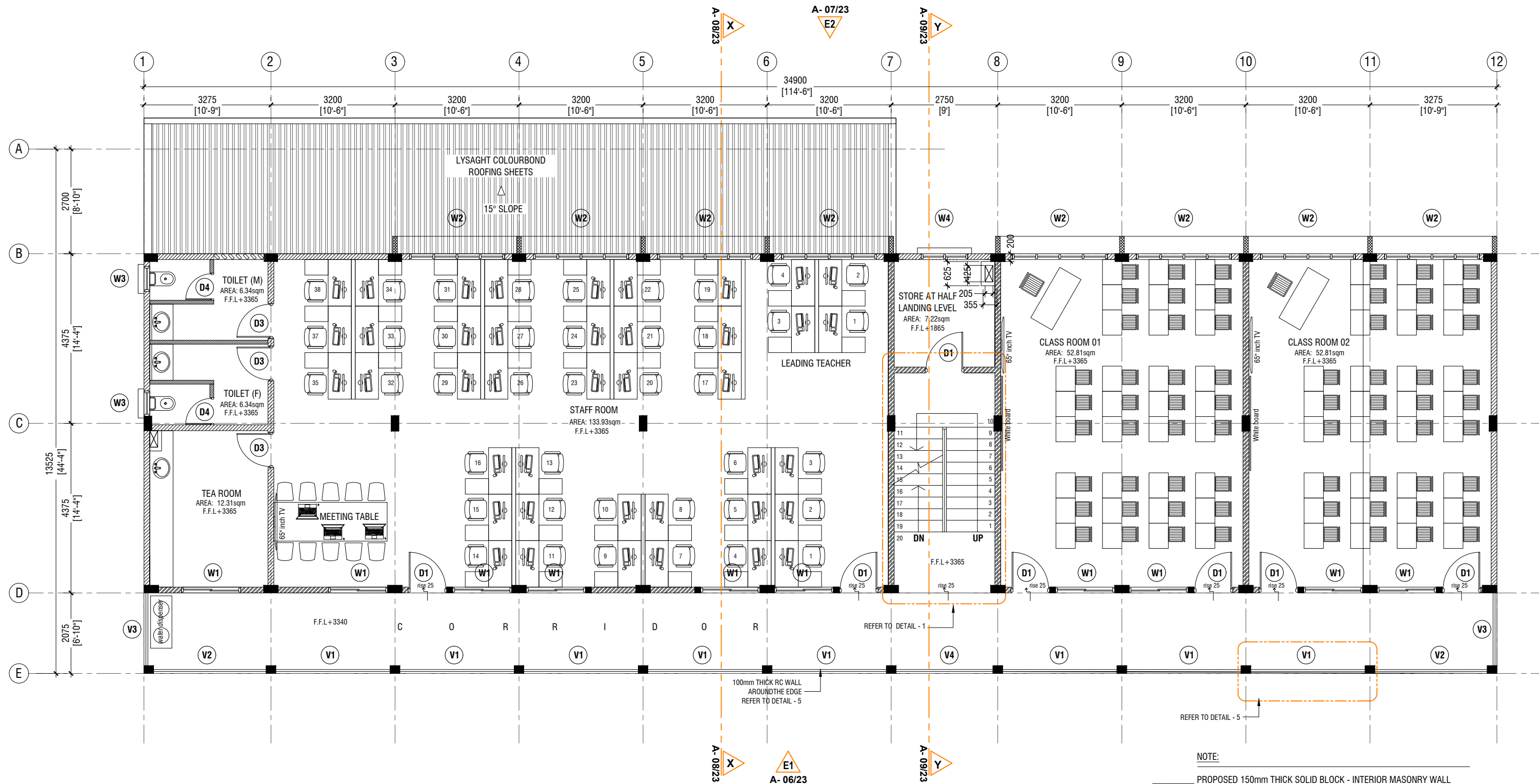
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FIRST FLOOR PLAN

SCALE 1:100



V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
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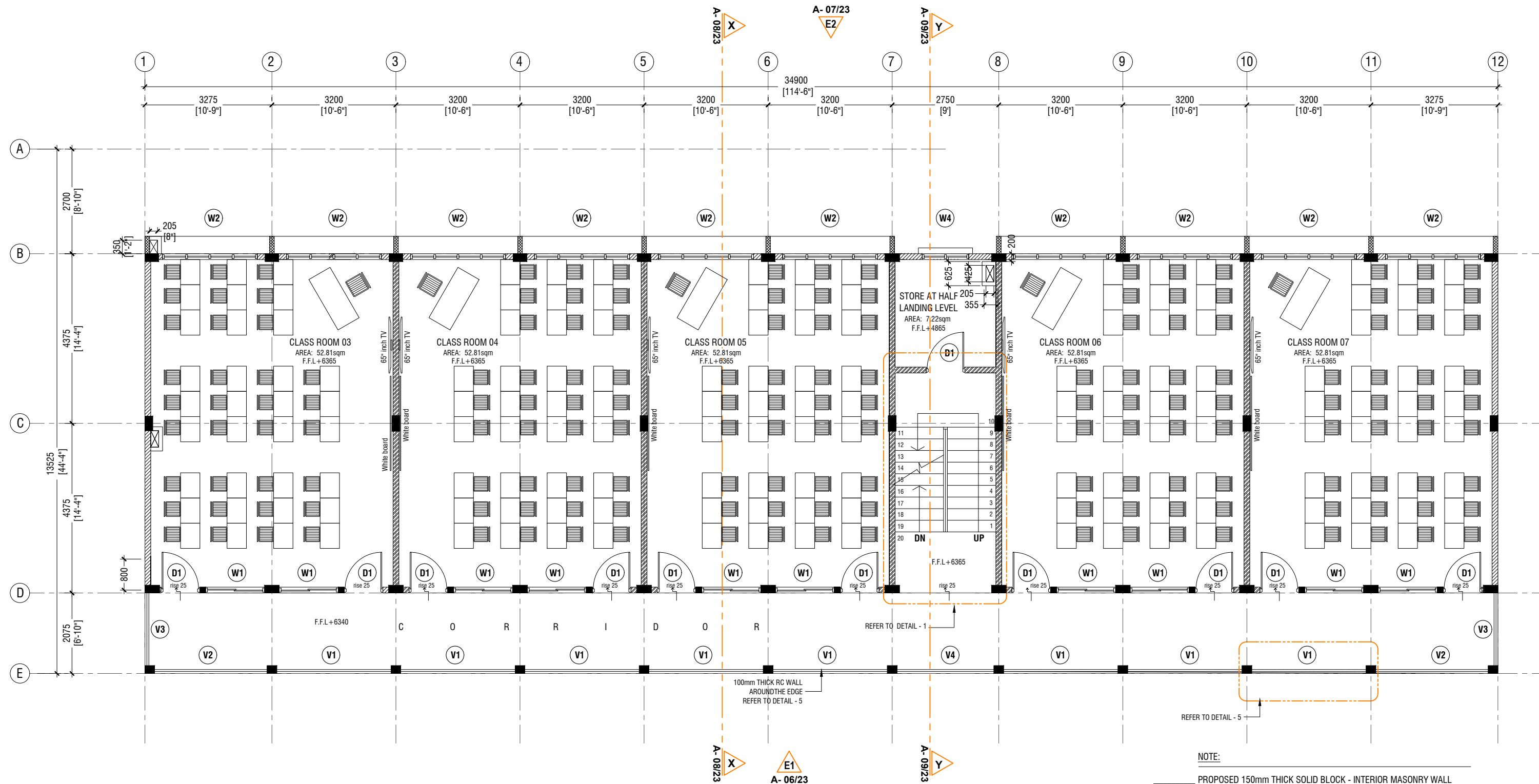
NOTE:

- 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 120mm THICK RC WALL TO BE WATER PROOFED WITH WATER PROOFING AGENT
- PROPOSED 100mm THICK 2400mm HIGH SOLID BLOCK 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.





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 SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 120mm THICK RC WALL TO BE WATER PROOFED WITH WATER PROOFING AGENT
- PROPOSED 100mm THICK 2400mm HIGH SOLID BLOCK 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.



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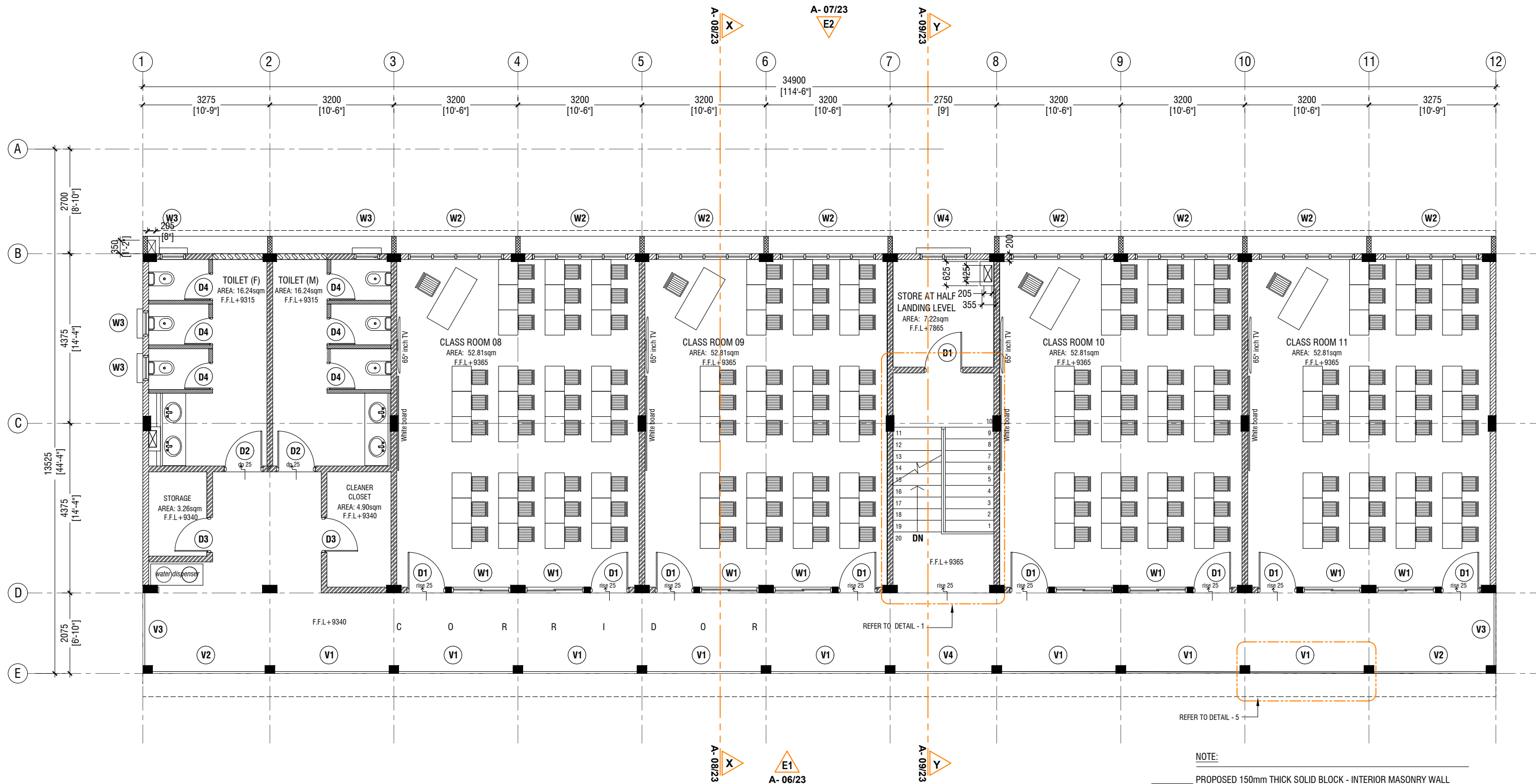
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


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THIRD 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 120mm THICK RC WALL TO BE WATER PROOFED WITH WATER PROOFING AGENT
-  PROPOSED 100mm THICK 2400mm HIGH SOLID BLOCK 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.



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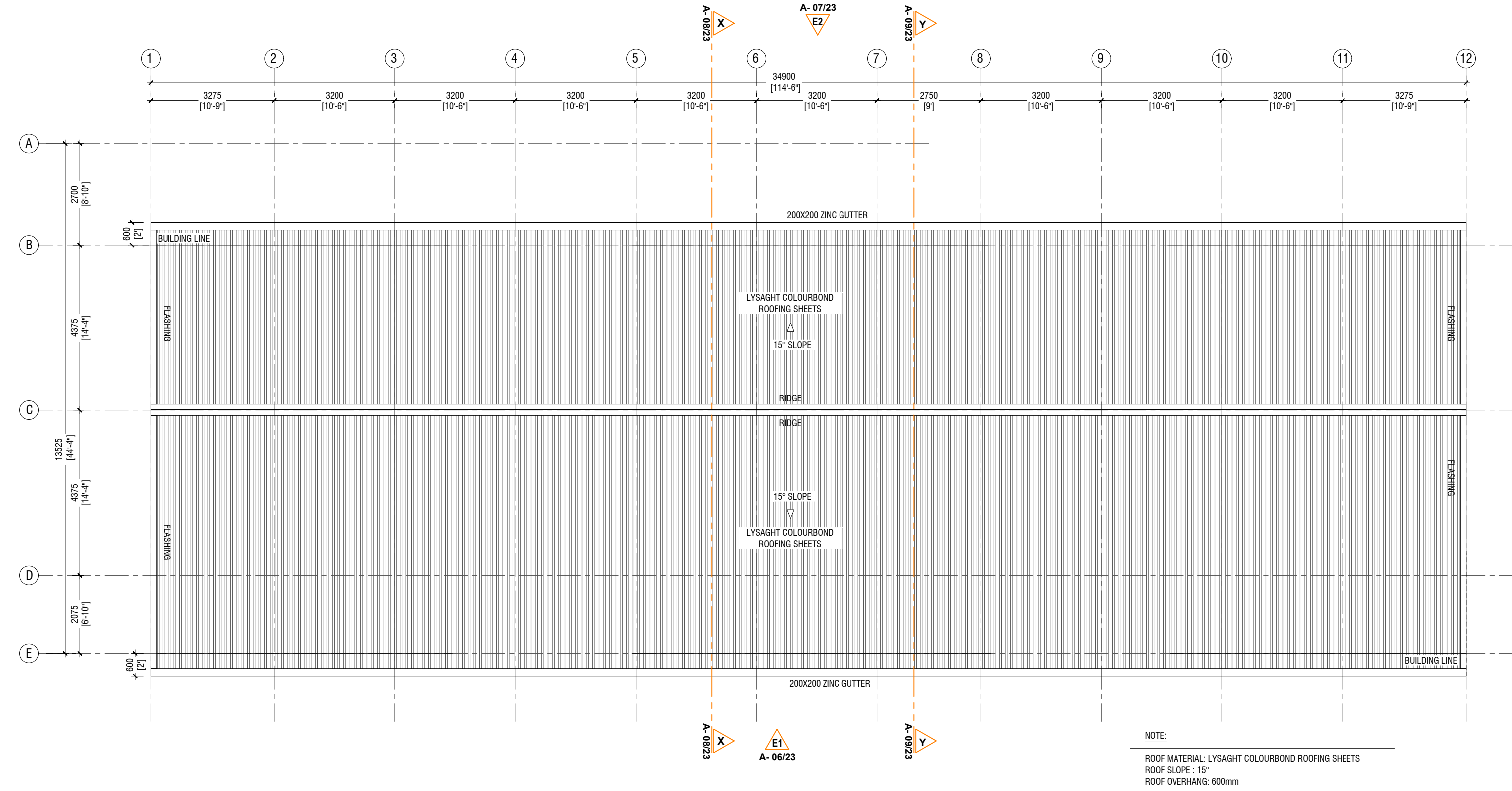
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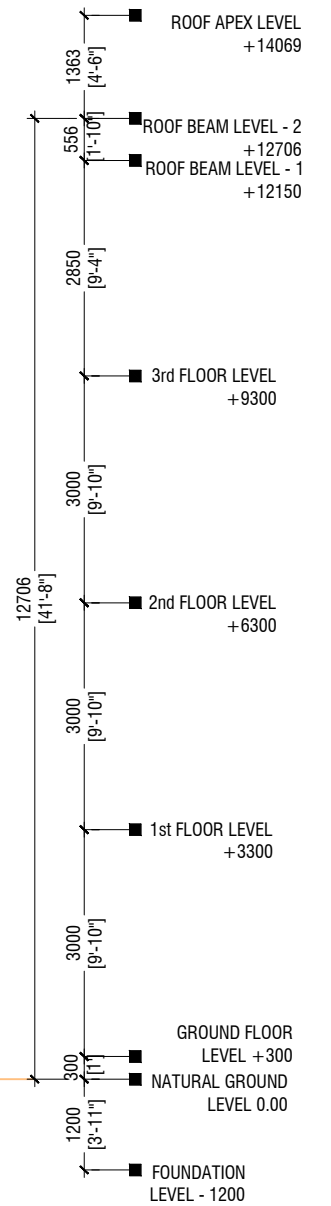
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ROOF PLAN
SCALE 1:100



ELEVATION - E1

SCALE 1:100



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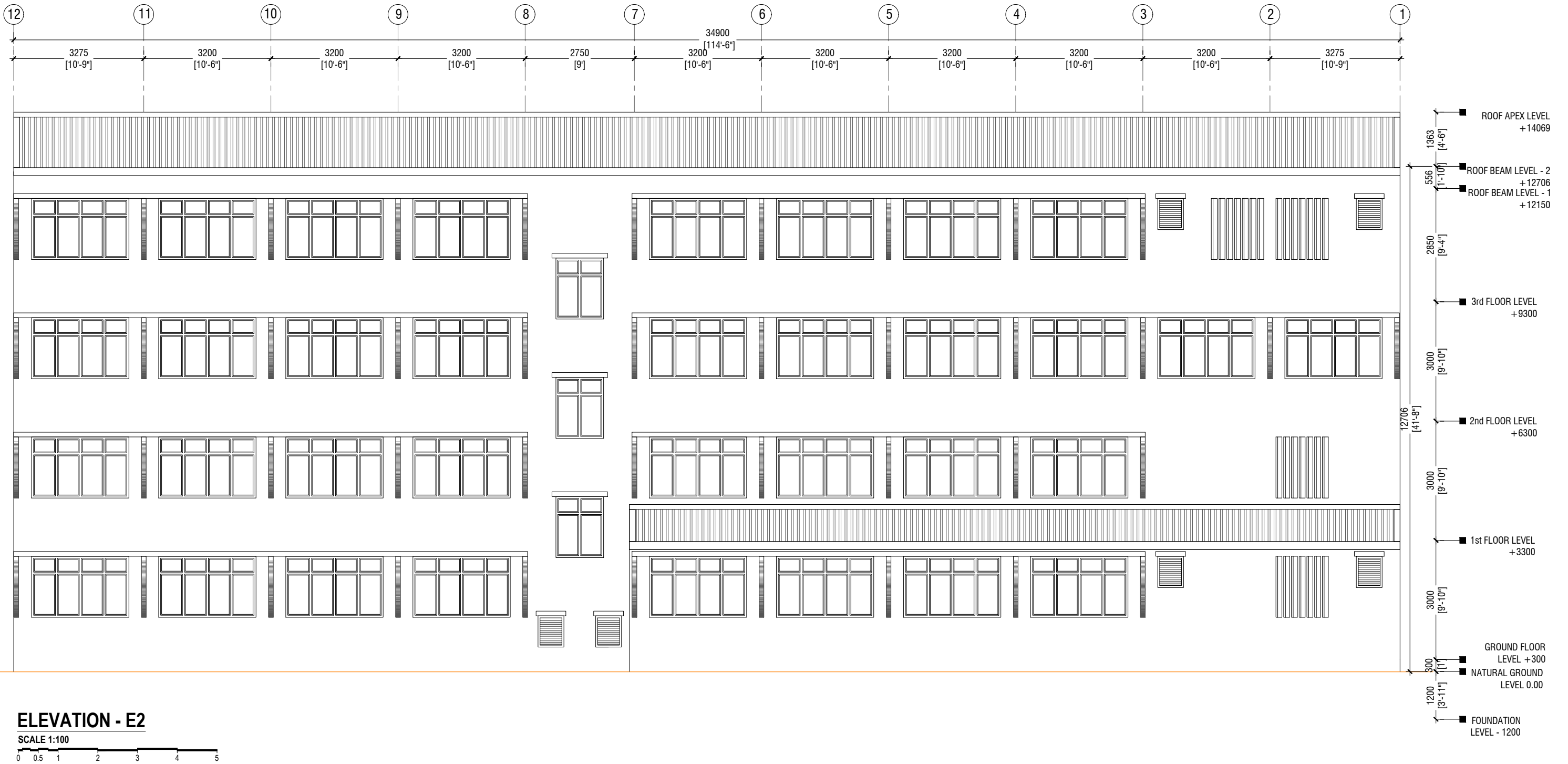
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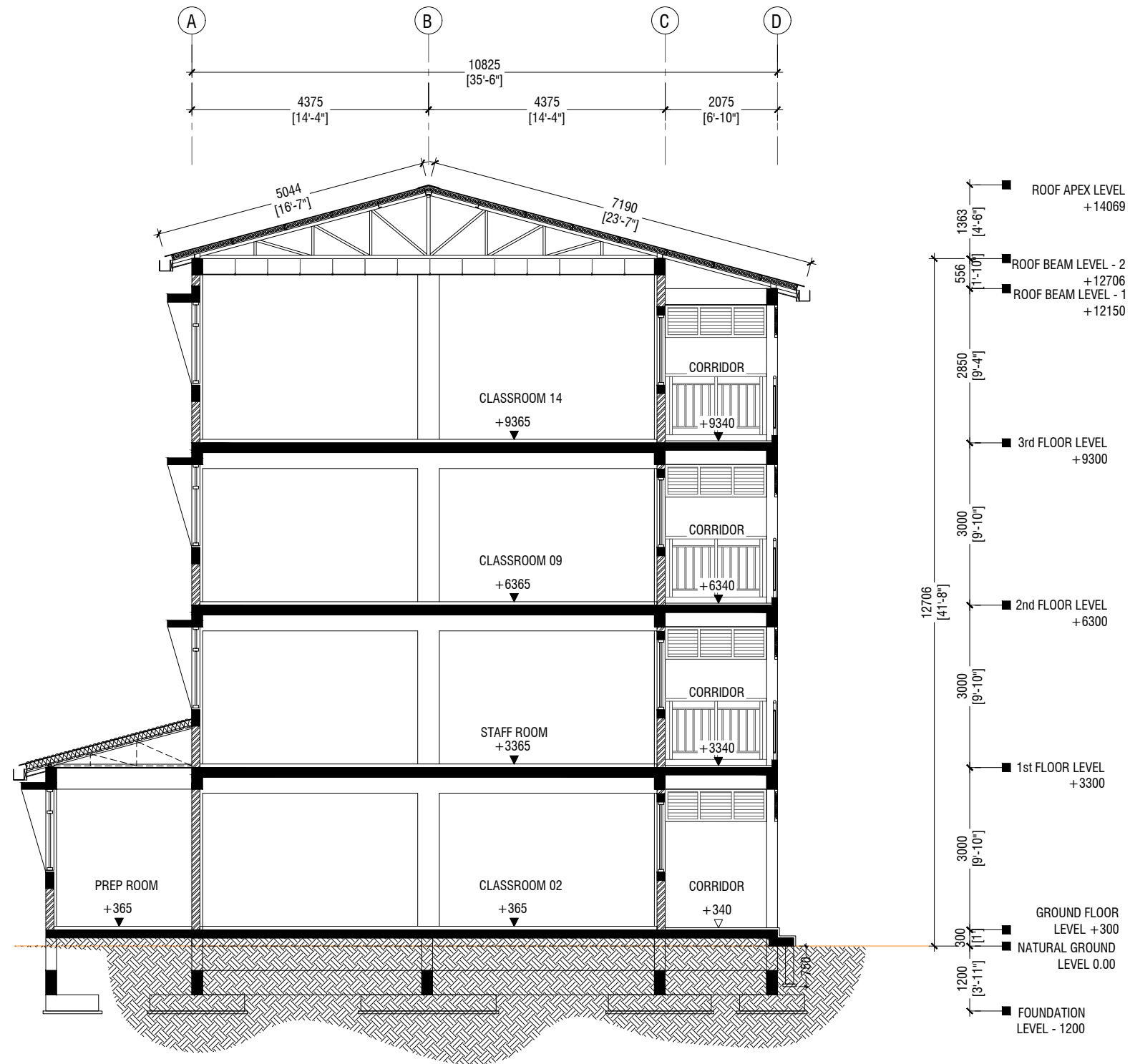
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SECTION X-X

SCALE 1:100



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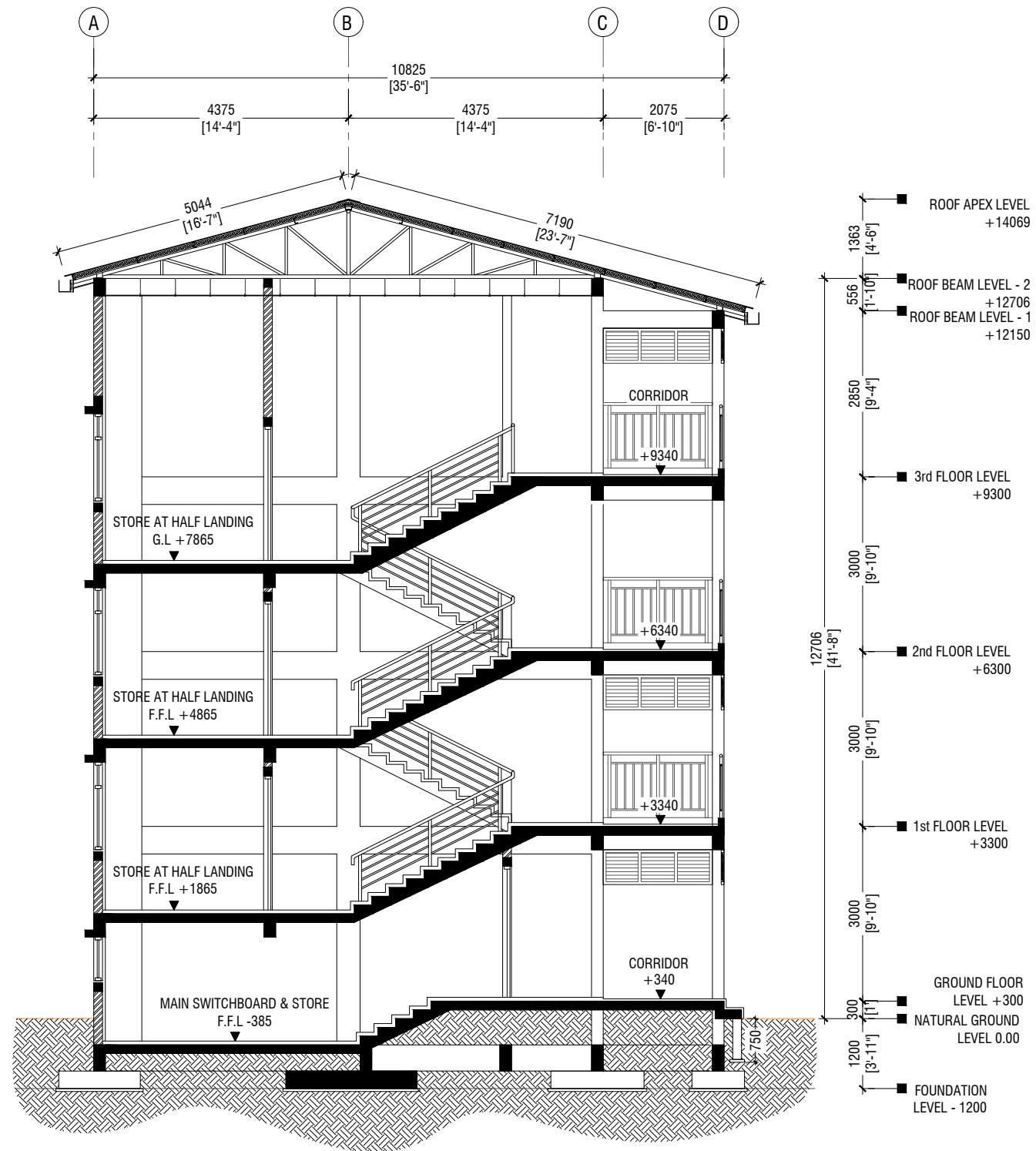
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SECTION Y-Y

SCALE 1:100

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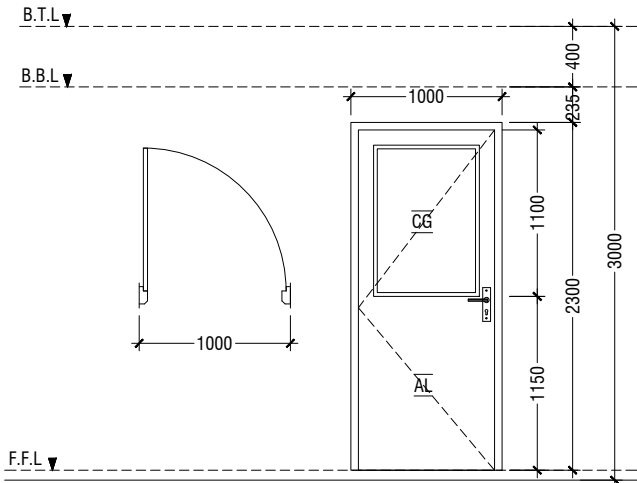
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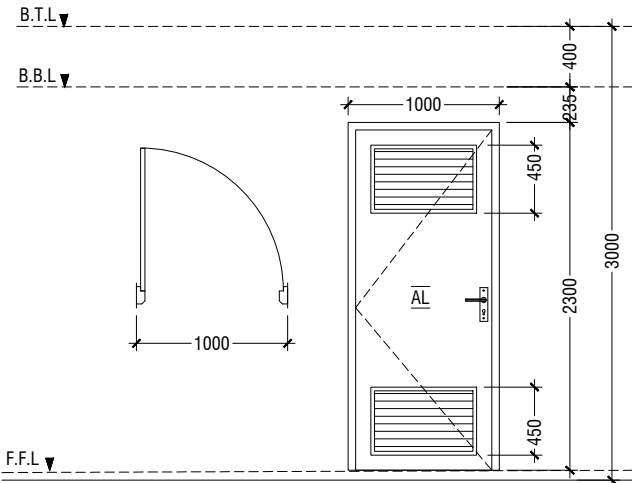
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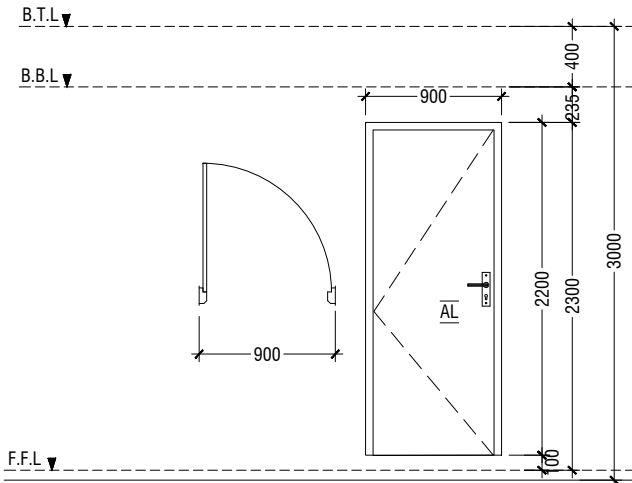
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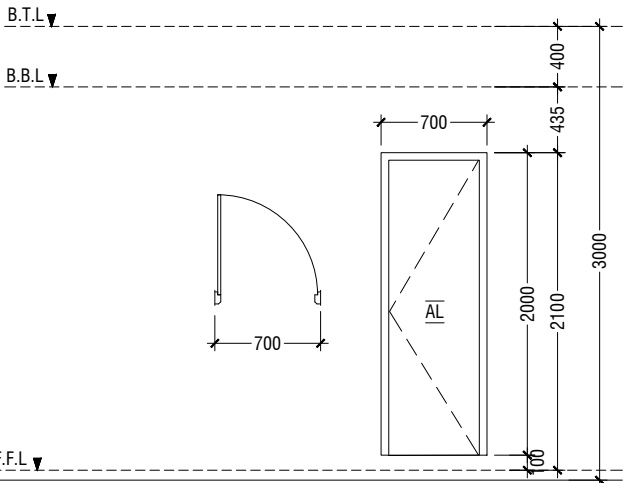
D1	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	CLASSROOMS & HALF LANDING STORE ROOM
QUANTITY	37 NOS
OPEN AREA	2.03 sqm



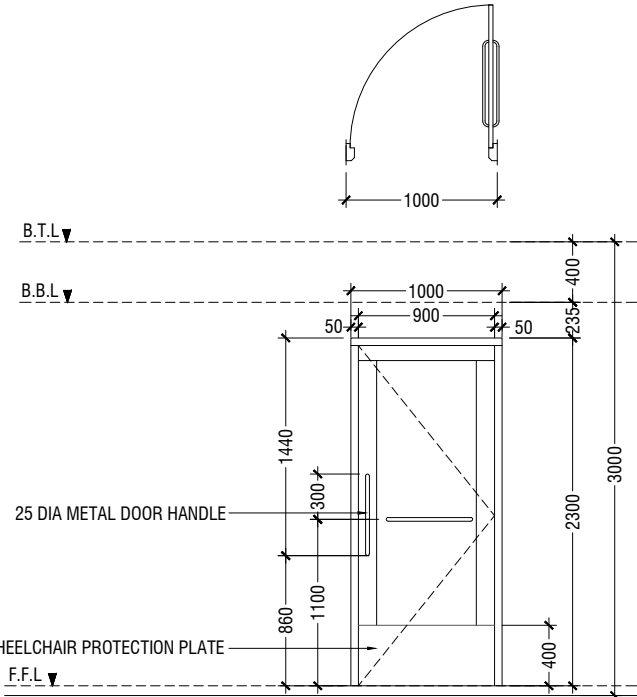
D2	SWING DOOR WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	07 NOS
OPEN AREA	2.03 sqm



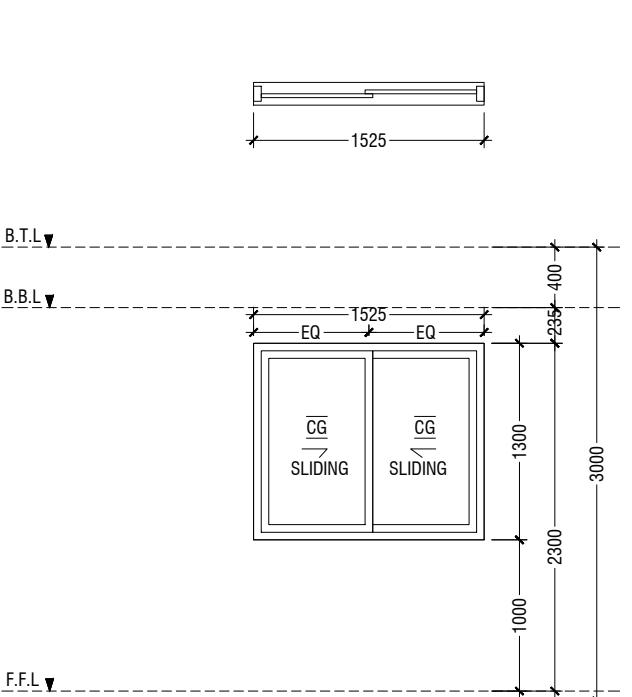
D3	SWING DOOR WITH ALUMINIUM
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINUM LOUVERS
LOCATION	STORE & CLEANER CLOSET
QUANTITY	06 NOS
OPEN AREA	1.29 SQM



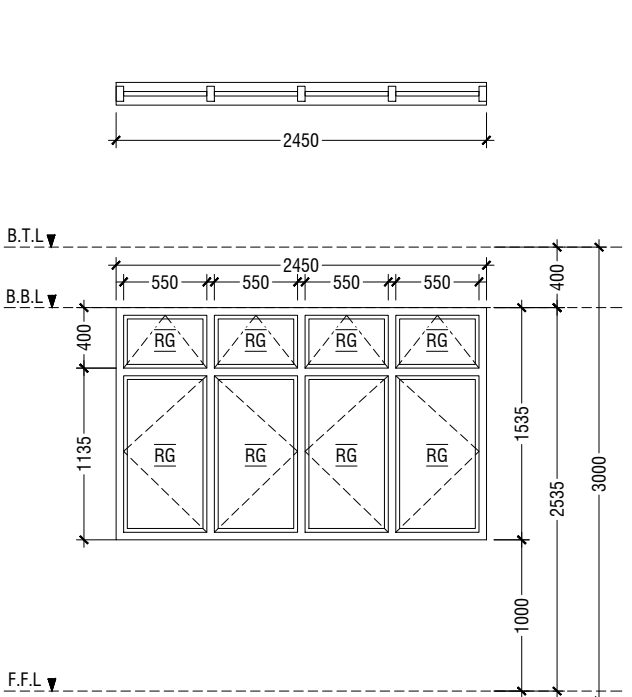
D4	SWING DOOR WITH ALUMINIUM
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINUM LOUVERS
LOCATION	TOILETS STALLS
QUANTITY	15 NOS
OPEN AREA	1.17 SQM



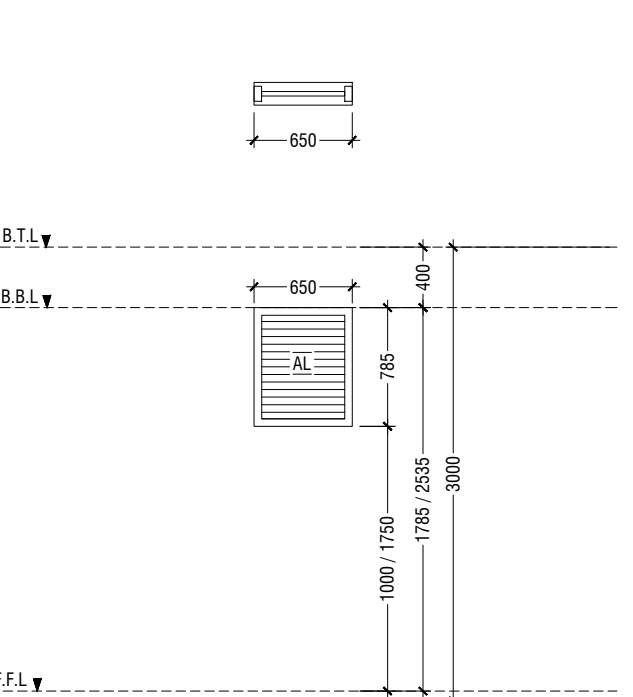
D5	SWING DOOR
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL
LOCATION	DISABLED TOILET
QUANTITY	01 NOS
OPEN AREA	2.03 sqm



W1	SLIDING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS
LOCATION	CLASSROOMS
QUANTITY	34 NOS
OPEN AREA	0.83 sqm



W2	SWING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	CLASSROOMS
QUANTITY	34 NOS
OPEN AREA	2.97 sqm



W3	WINDOW WITH ALUMINIUM LOUVERS
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM LOUVERS
LOCATION	TOILETS & MAIN SWITCH BOARD STORE
QUANTITY	08 NOS
OPEN AREA	0.36 SQM

- NOTE:-
1. FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES
 2. MAINTAIN FLOOR TO WINDOW SILL STANDARD HEIGHT REGULATION OF 1M.
 3. REFER TO ARCHITECT FOR FURTHER ASSISTANCE.
 4. ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
 5. ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
 6. THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
 7. FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)
 8. FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

LEGEND:
CG - CLEAR GLASS
RG - REFLECTED GLASS
AL - ALUMINIUM
PVC - POLYVINYL CHLORIDE

DOOR & WINDOW SCHEDULE - 1

SCALE 1:50

0 0.25 0.5 1 1.5 2 2.5



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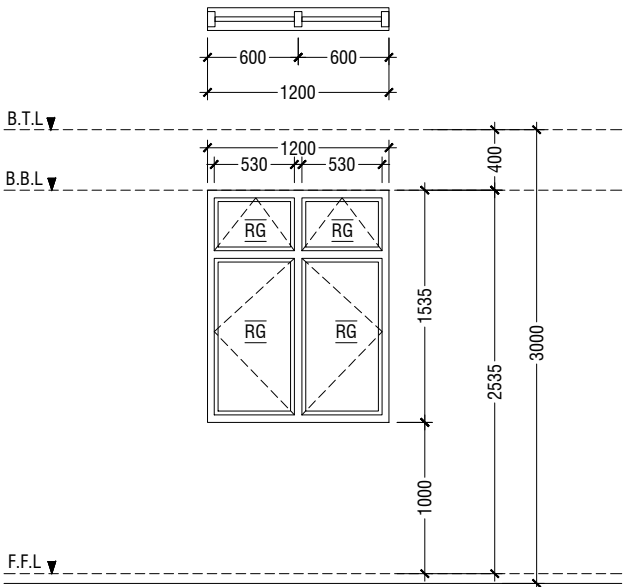
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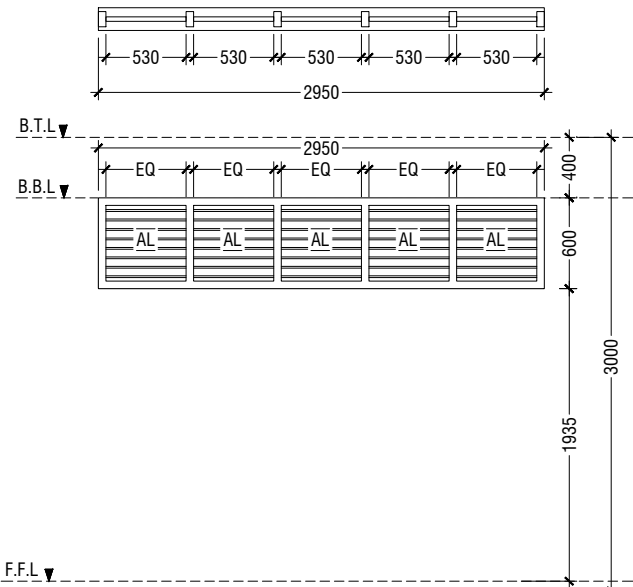
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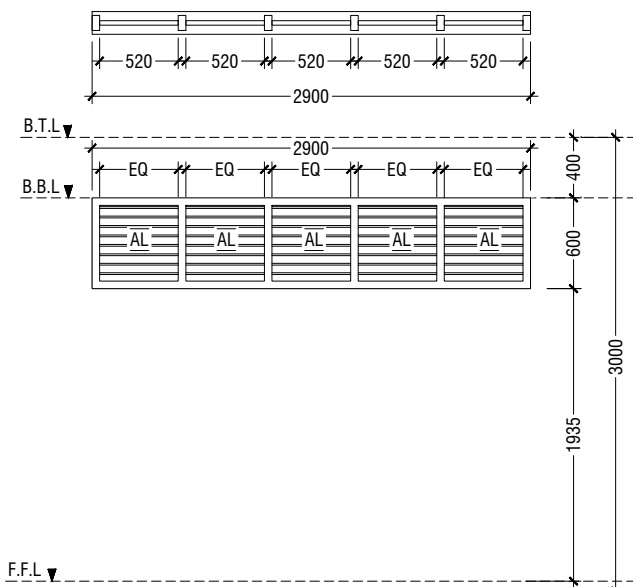
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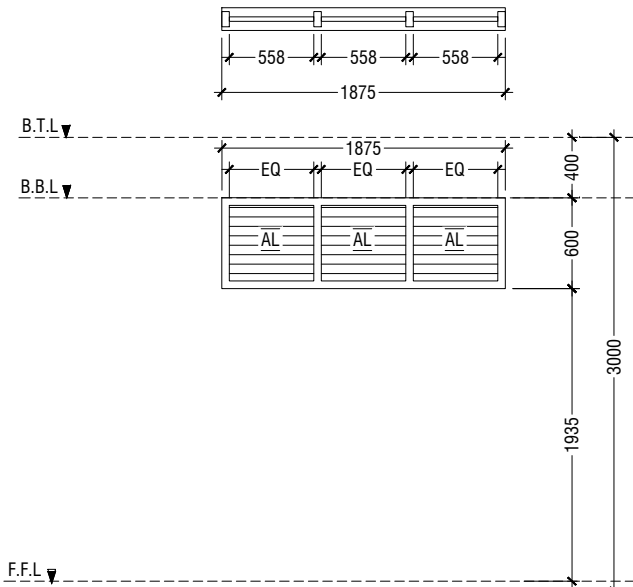
W4	SWING WINDOW
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS
LOCATION	HALF LANDING STORE ROOM
QUANTITY	3 NOS
OPEN AREA	1.43 sqm



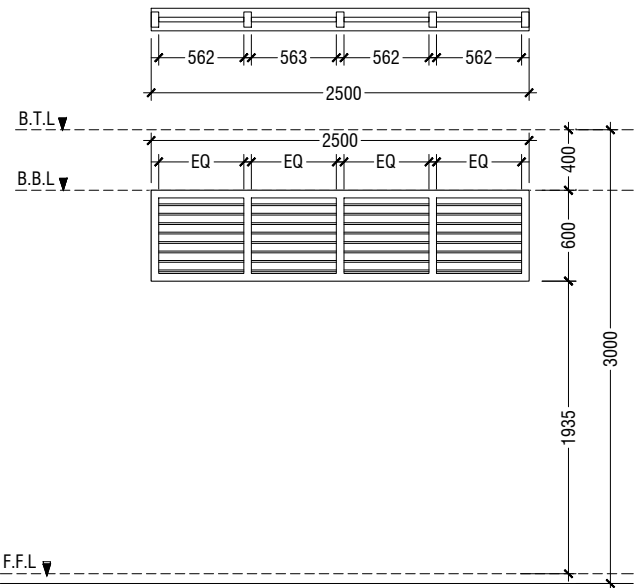
V1	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	32 NOS
OPEN AREA	1.35 SQM



V2	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	08 NOS
OPEN AREA	1.35 SQM



V3	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	08 NOS
OPEN AREA	0.84 SQM



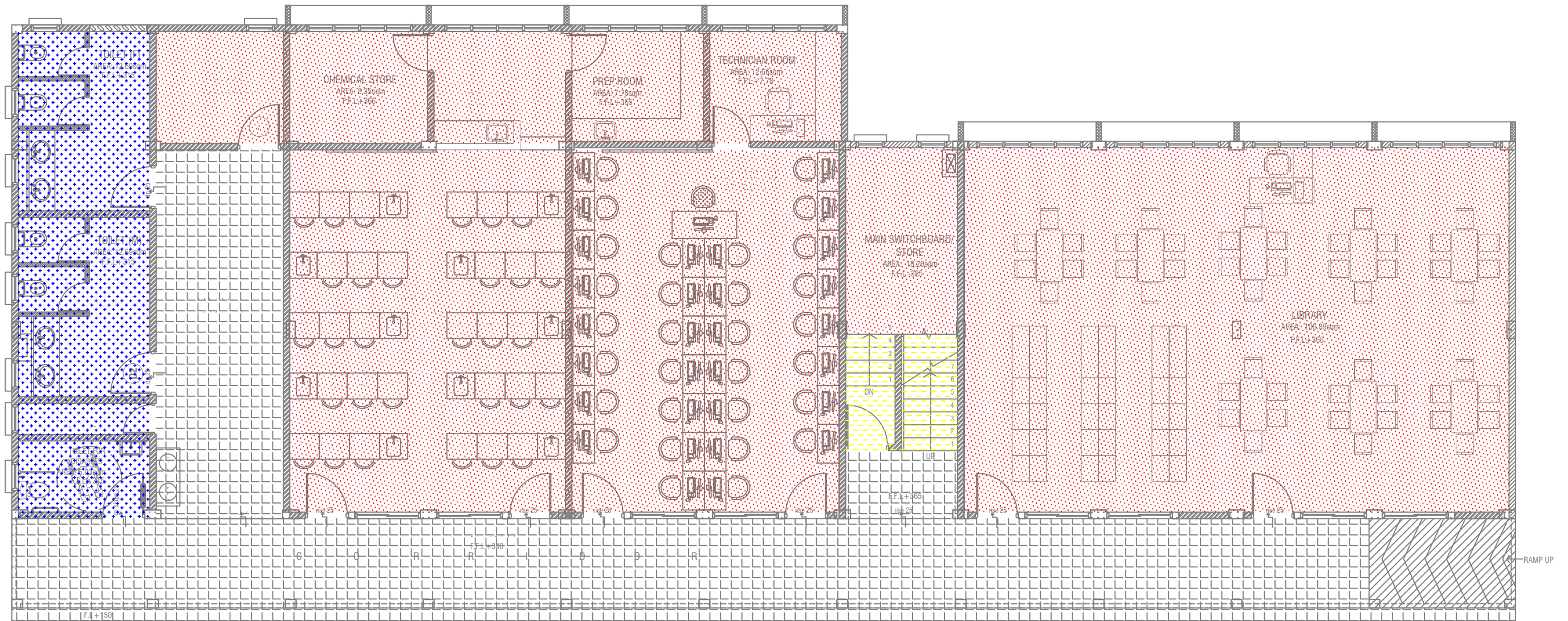
V4	SUNSHADING
REMARKS	50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS
LOCATION	CORRIDOR
QUANTITY	04 NOS
OPEN AREA	1.15 SQM

LEGEND:
CG - CLEAR GLASS
RG - REFLECTED GLASS
AL - ALUMINIUM
PVC - POLYVINYL CHLORIDE

- NOTE:-
1. FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES
 2. MAINTAIN FLOOR TO WINDOW SILL STANDARD HEIGHT REGULATION OF 1M.
 3. REFER TO ARCHITECT FOR FURTHER ASSISTANCE.
 4. ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
 5. ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
 6. THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
 7. FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)
 8. FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

DOOR & WINDOW SCHEDULE - 2

SCALE 1:50



GROUND FLOOR FINISHES PLAN

SCALE 1:100



LEGEND

CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	2.5mm SELF LEVELING CEMENT WITH EPOXY FLOORPAINT (2 COATS OF EPOXY)
	300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING
	300X1200mm STAIRCASE ANTI SKID TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERSEAL 588 OR EQUIVALENT ON TOP OF THE SLAB)
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERSEAL 588 OR EQUIVALENT ON TOP OF THE SLAB)



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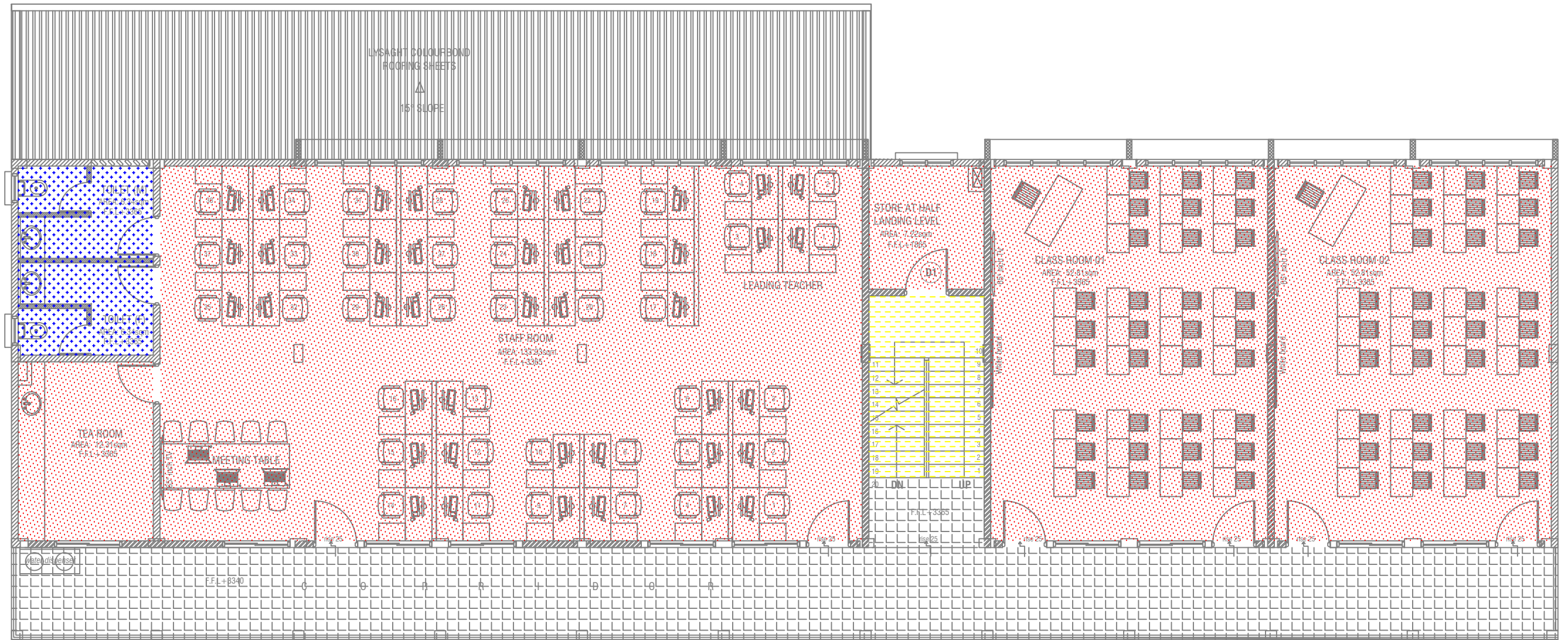
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Title: Site Plan

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FIRST FLOOR FINISHES PLAN

SCALE 1:100



LEGEND

CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	2.5mm SELF LEVELING CEMENT WITH EPOXY FLOORPAINT (2 COATS OF EPOXY)
	300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING
	300X1200mm STAIRCASE ANTI SKID TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERSEAL 588 OR EQUIVALENT ON TOP OF THE SLAB)
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERSEAL 588 OR EQUIVALENT ON TOP OF THE SLAB)



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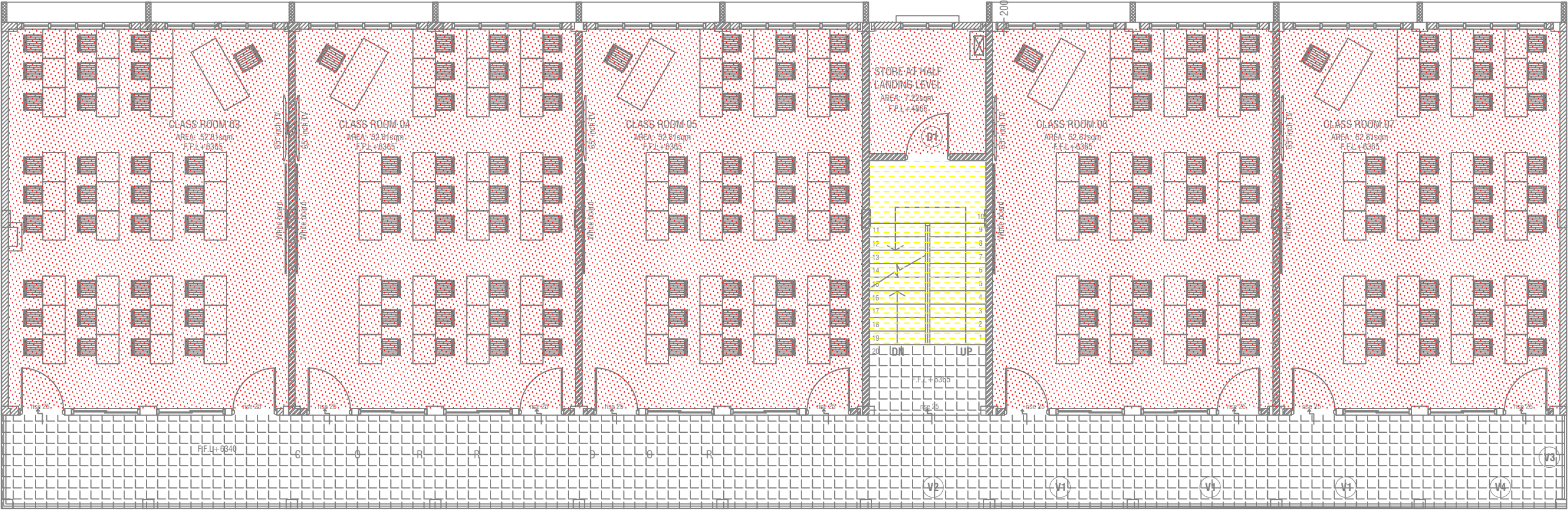
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Interior : -

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Title: Site Plan

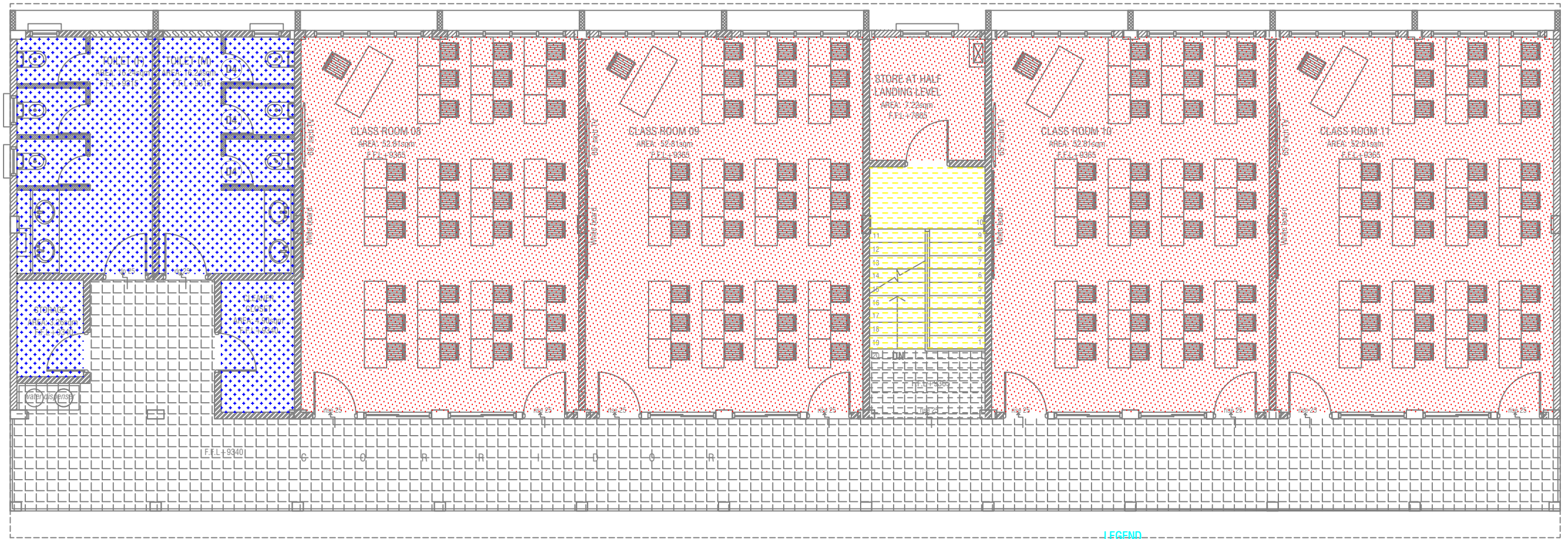
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SECOND FLOOR FINISHES PLAN
SCALE 1:100

LEGEND

CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	2.5mm SELF LEVELING CEMENT WITH EPOXY FLOORPAINT (2 COATS OF EPOXY)
	300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING
	300X1200mm STAIRCASE ANTI SKID TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERSEAL 588 OR EQUIVALENT ON TOP OF THE SLAB)
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERSEAL 588 OR EQUIVALENT ON TOP OF THE SLAB)



LEGEND

CODE	DESCRIPTION
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING
	2.5mm SELF LEVELING CEMENT WITH EPOXY FLOORPAINT (2 COATS OF EPOXY)
	300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING
	300X1200mm STAIRCASE ANTI SKID TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERSEAL 588 OR EQUIVALENT ON TOP OF THE SLAB)
	600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERSEAL 588 OR EQUIVALENT ON TOP OF THE SLAB)

THIRD FLOOR FINISHES PLAN

SCALE 1:100



V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
Client: Ministry of Education

Project Number:
Date: 23 August 2023
Architect :
Engineer :
Drawn by :
Services :
Interior : -

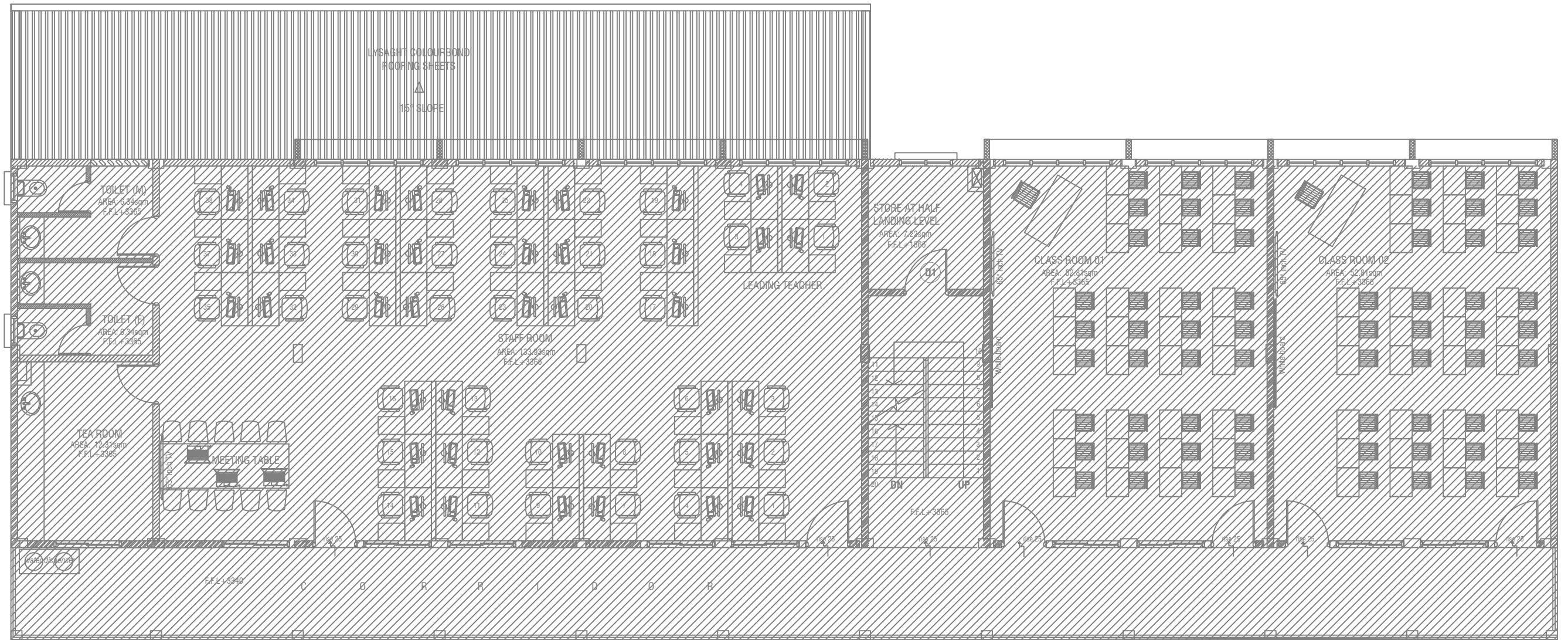
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Title: Site Plan

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PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES



FIRST FLOOR REFLECTED CEILING PLAN

SCALE 1:100



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 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

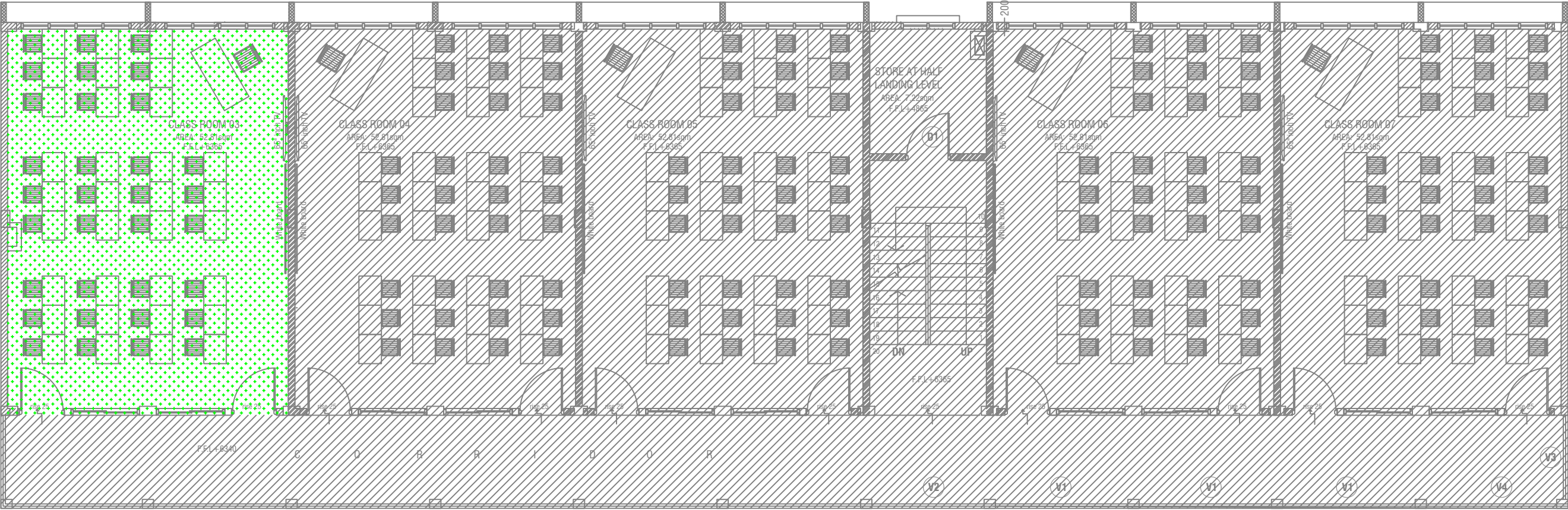
V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
Client: Ministry of Education

Project Number:
Date: 23 August 2023
Architect :
Engineer :
Drawn by :
Services :
Interior : -

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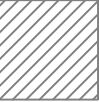
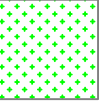
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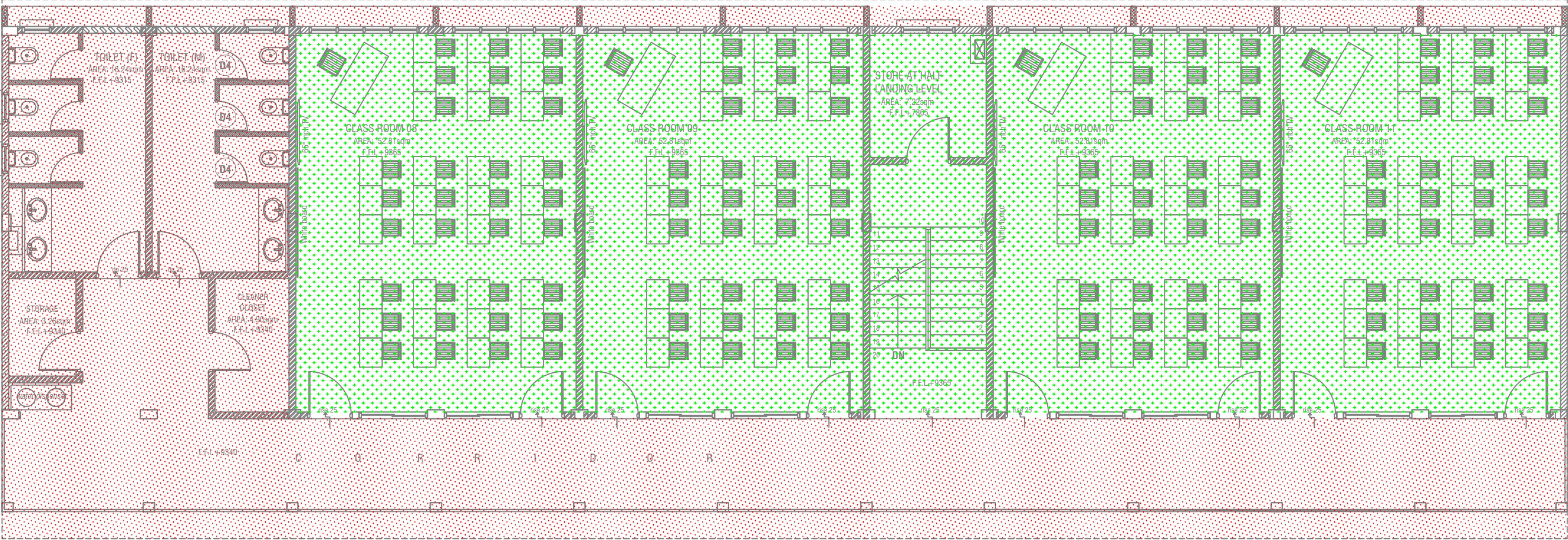
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SECOND FLOOR REFLECTED CEILING PLAN
SCALE 1:100


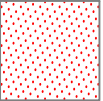
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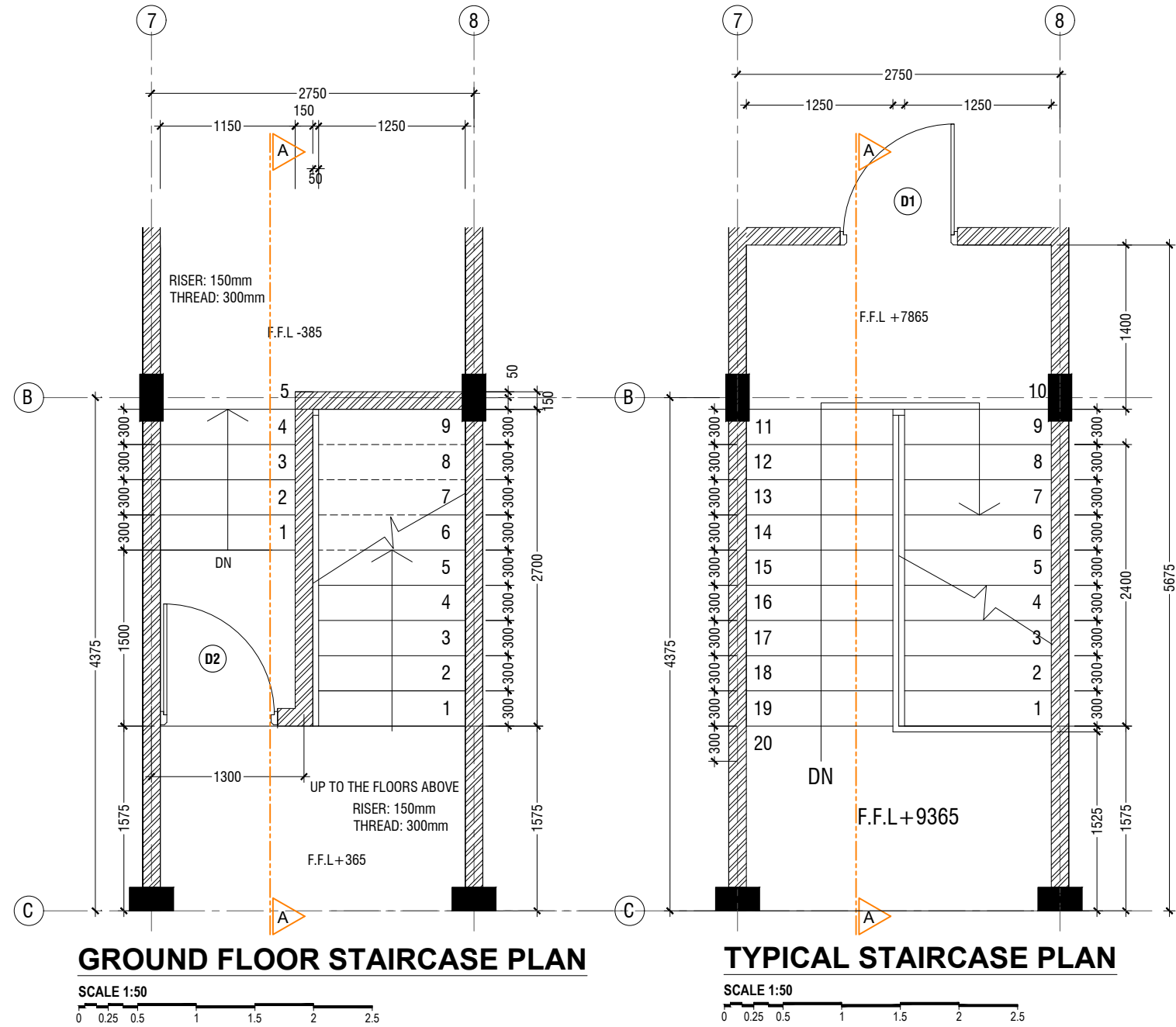
CODE	DESCRIPTION
	EXPOSED SLAB SOFFIT TO BE GROUND SMOOTH IN SELECT PAINT FINISH (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT)
	9mm THICK FIXED CEILING 'BORAL' OR EQUIVALENT PLASTERBOARD CEILING SYSTEM WITH TIMBER FRAMES, APPLIED WITH GROUND SMOOTH FINISH IN SELECTED PAINT



THIRD FLOOR REFLECTED CEILING PLAN
SCALE 1:100

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
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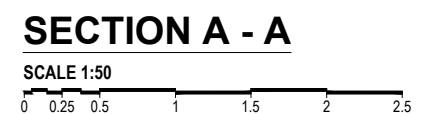
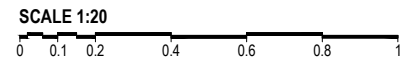
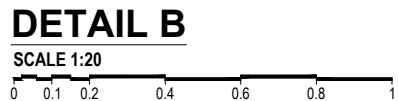
V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
Client: Ministry of Education

Project Number:
Date: 23 August 2023
Architect :
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Drawn by :
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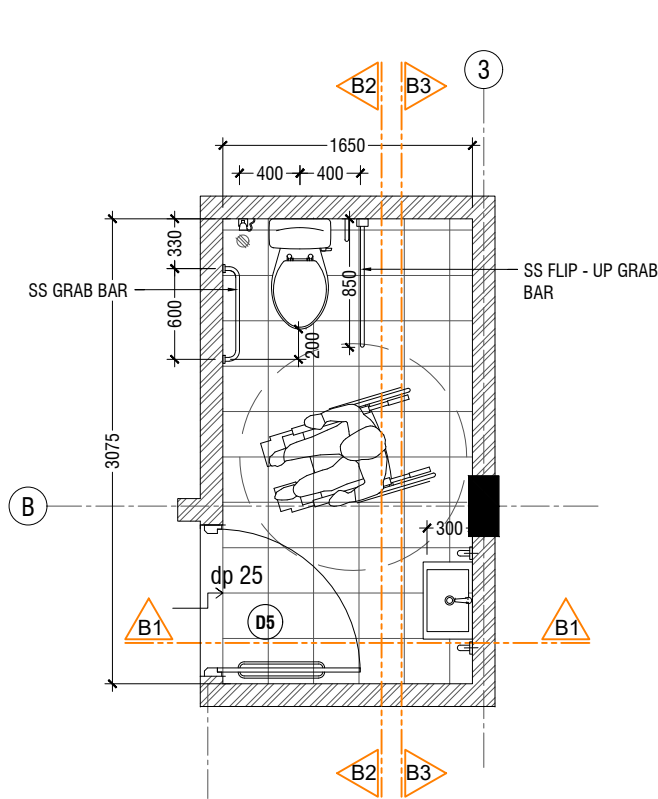
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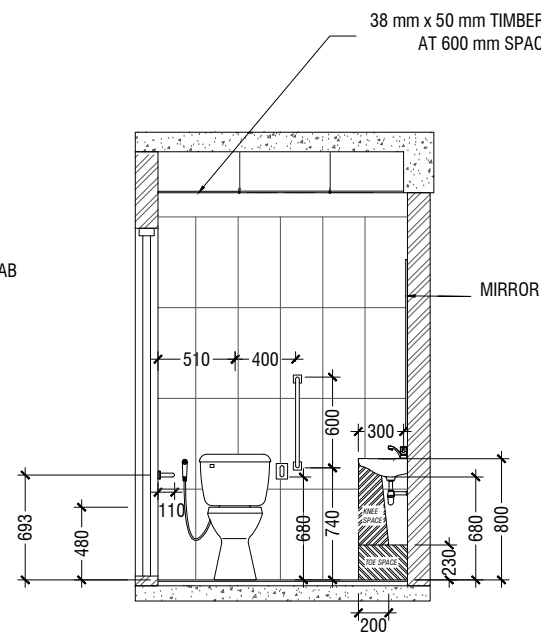


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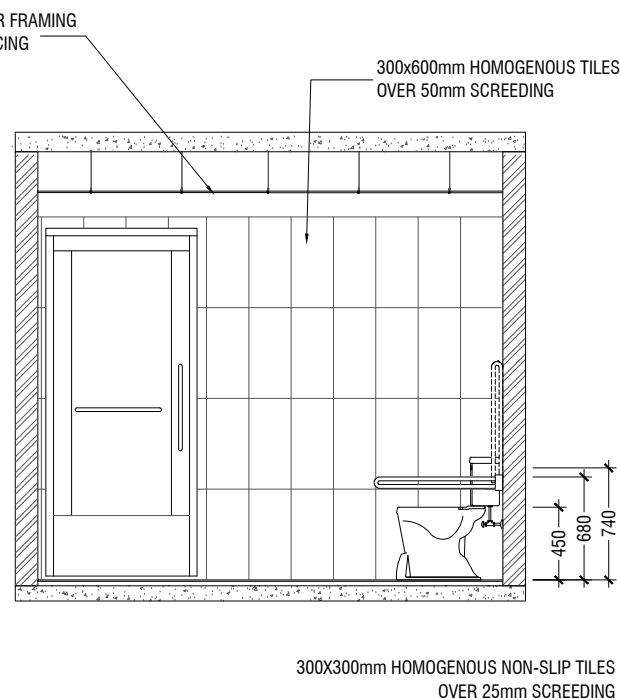
TOILET FOR PERSONS WITH DISABILITIES PLAN

SCALE 1:50



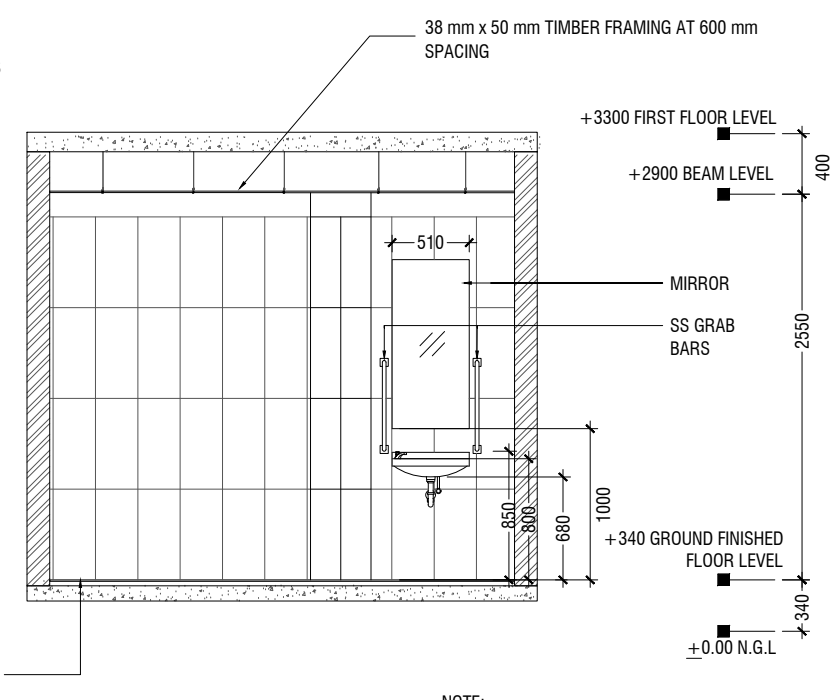
SECTION B1-B1

SCALE 1:50



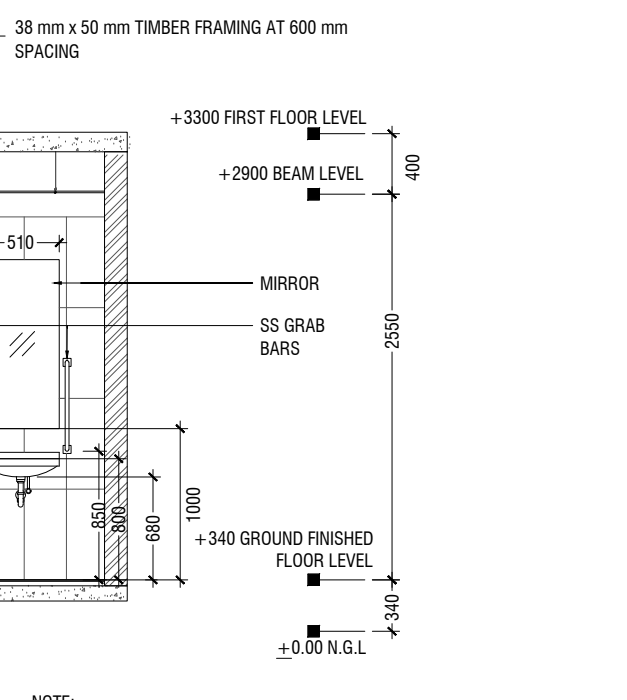
SECTION B2-B2

SCALE 1:50



SECTION B3-B3

SCALE 1:50



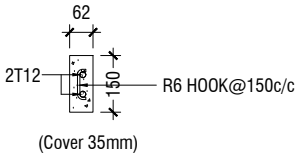
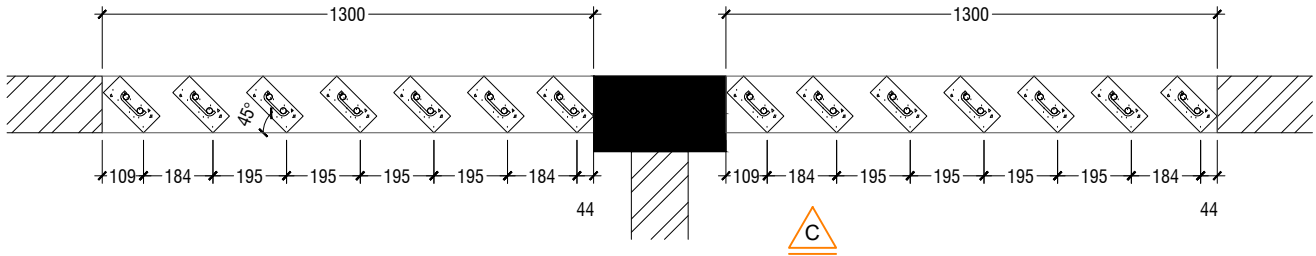
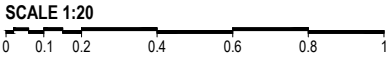
**DETAIL - 3
TOILET DETAILS**

SCALE 1:50

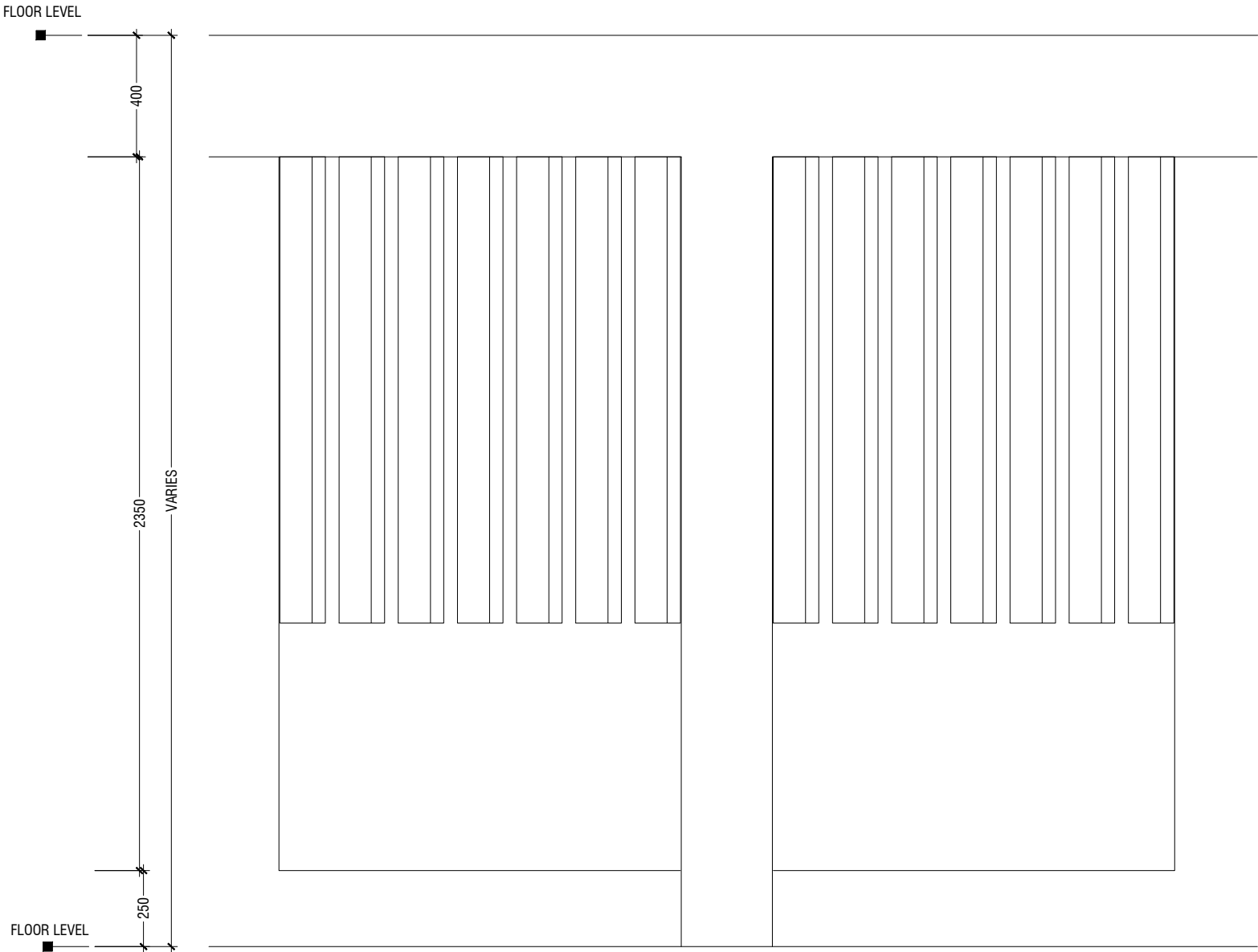
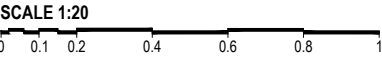
NOTE:
ALL THE MATERIALS FOR FIXTURES SHALL BE APPROVED
BY THE ARCHITECT/CONSULTANT BEFORE INSTALLATION

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

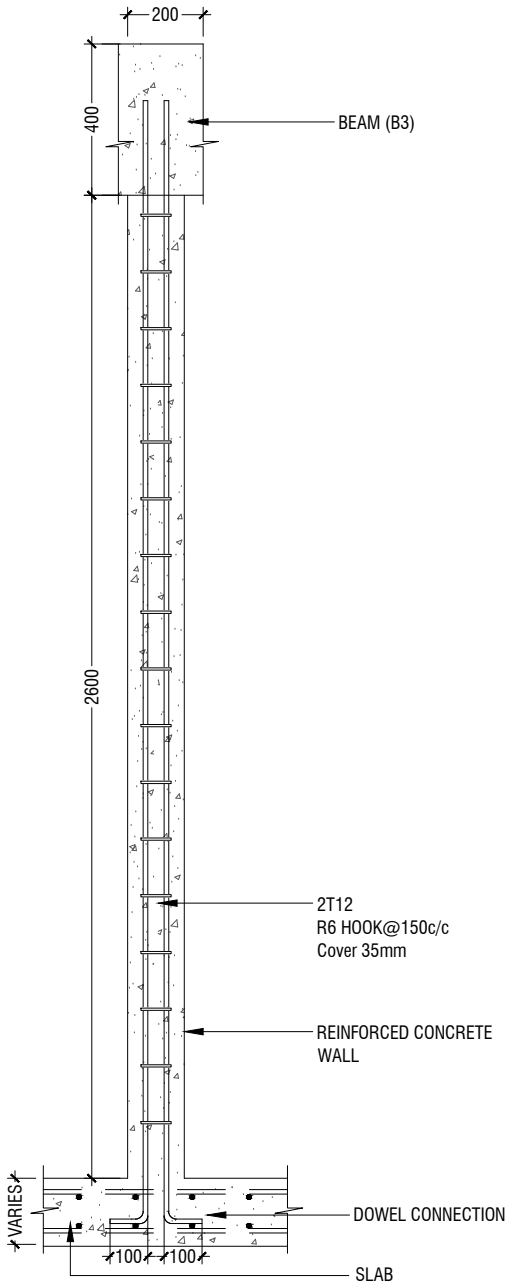
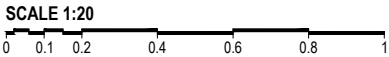
PLAN



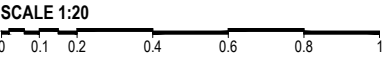
RC FIN DETAIL



ELEVATION - C

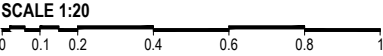


SECTION C-C

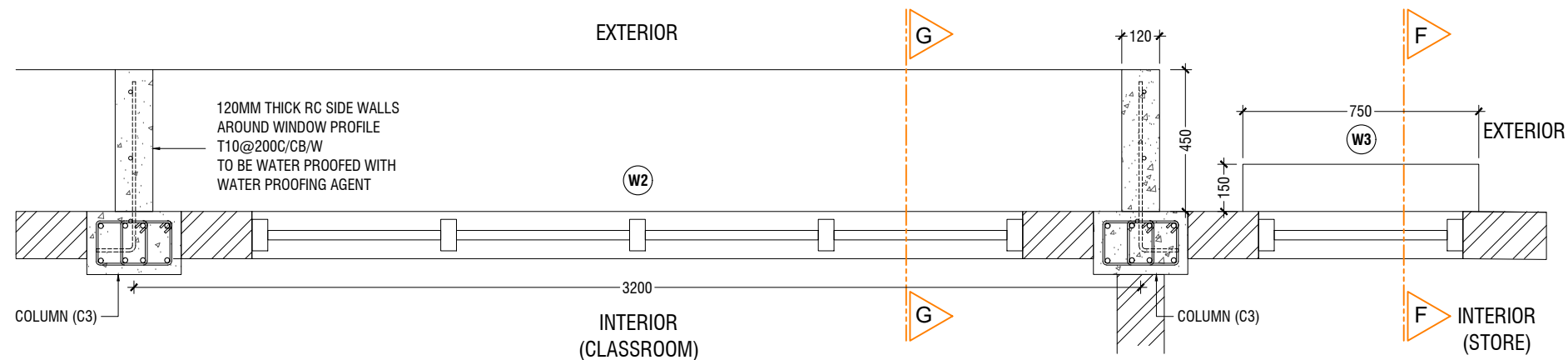


NOTE:-
FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES

DETAIL - 4
RC FIN DETAILS (TOILET)

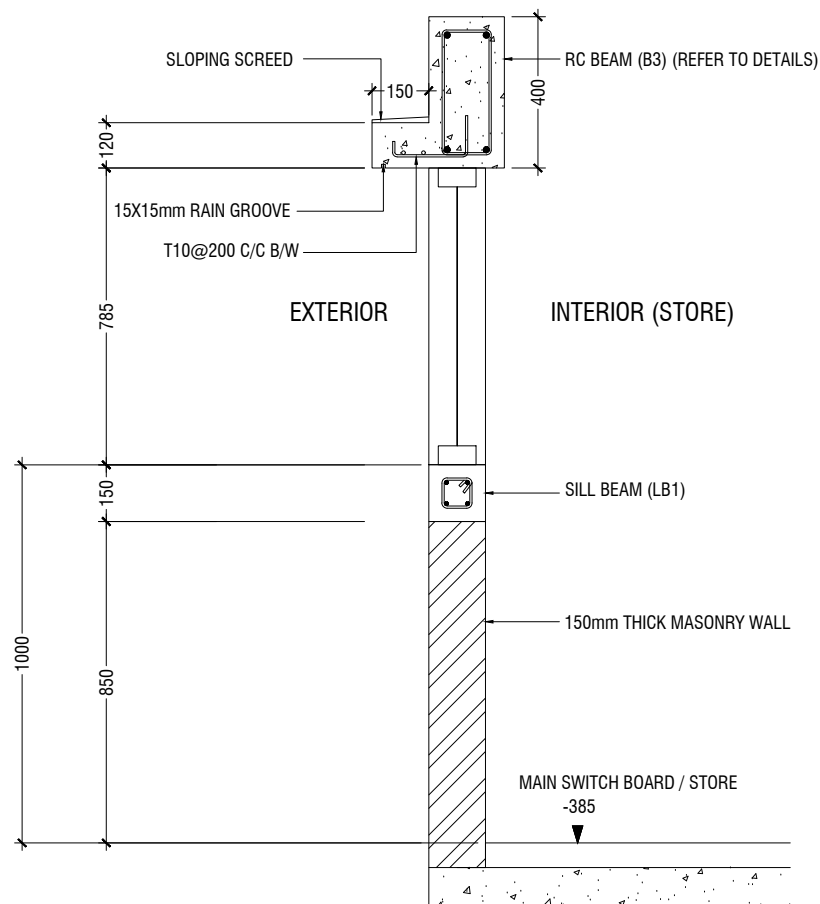


SECTION
SCALE 1:20



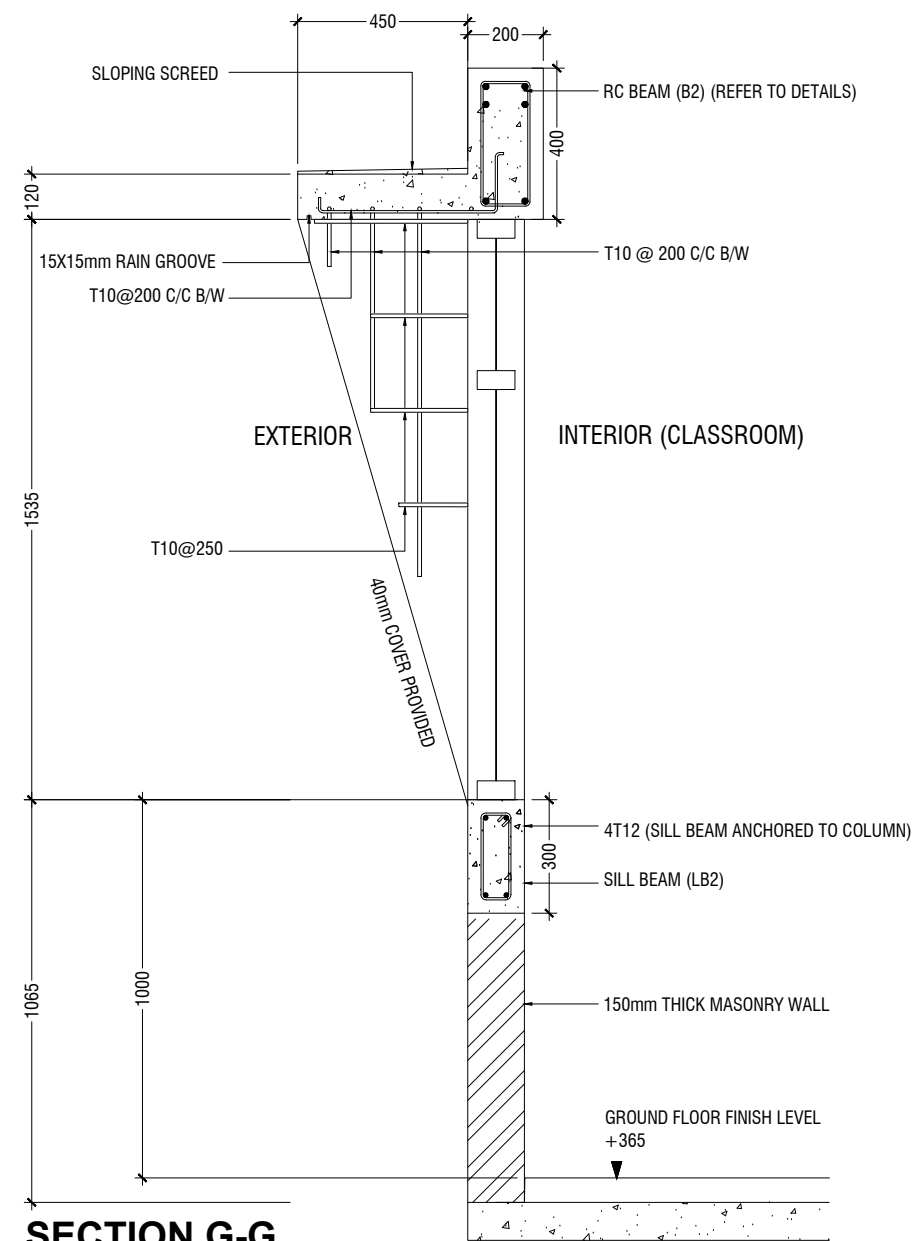
PLAN

SCALE 1:20



SECTION F-F

SCALE 1:20

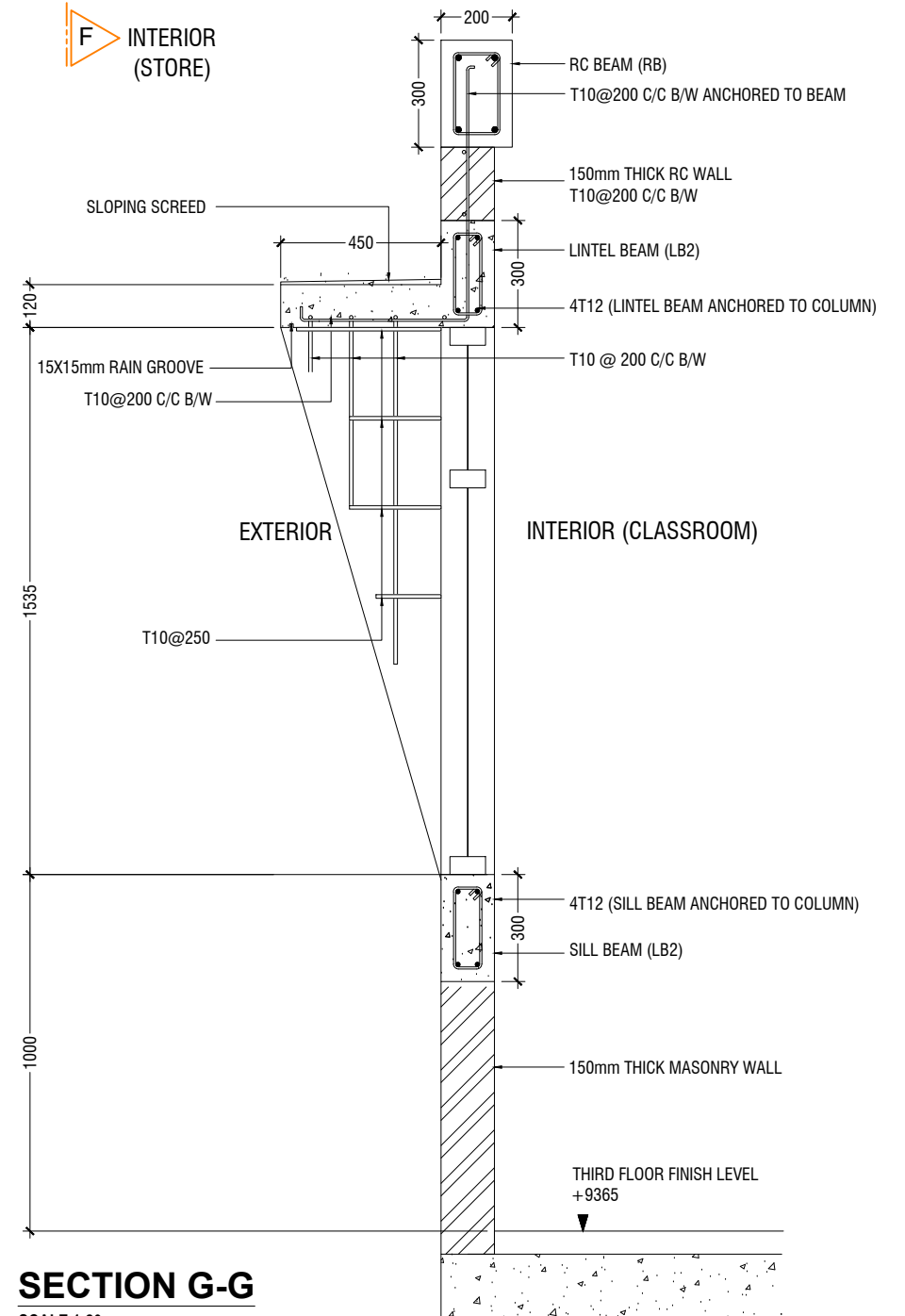


SECTION G-G

SCALE 1:20



* NOTE: GROUND FLOOR



SECTION G-G

SCALE 1:20



* NOTE: THIRD FLOOR

DETAIL - 6

RC WALL DETAILS

SCALE 1:20



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
Client: Ministry of Education

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Date: 23 August 2023
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Engineer:
Drawn by:
Services:
Interior: -

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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 CONTRACTER 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, MANHOLE, 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	415 N/mm2

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

	BAR GRADE 415
TENSION	45Ø
COMPRESSION	45Ø

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

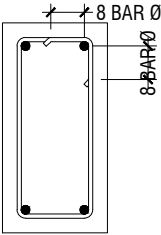
- THE SURFACE OF CONCRETE SHALL BE ADEQUATELY AND CONTINUOUSLY CURED TO SPECIFICATION TO PREVENT FORMATION OF SHRINKAGE CRACKS.THOUGH SHRINKAGE CRACKS HAVE NO EFFECT ON THE STRENGTH AND INTEGRITY OF THE STRUCTURE,THEY SHOULD BE SEALED BY EPOXY PRESSURE GROUTING. ALL COST INCURRED FOR THE NECESSARY SEALING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

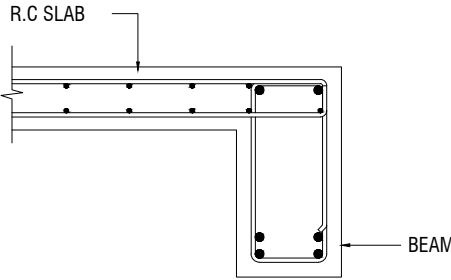
18.0 SPACER BARS

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

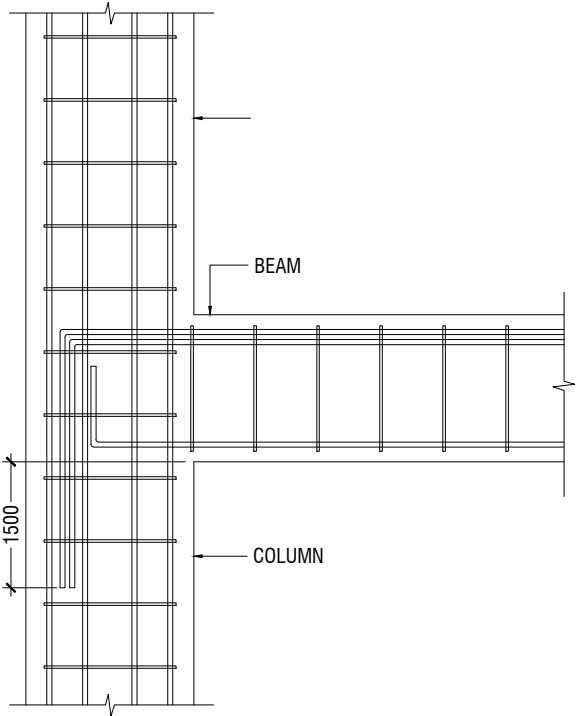


Ø = DIA OF LINK

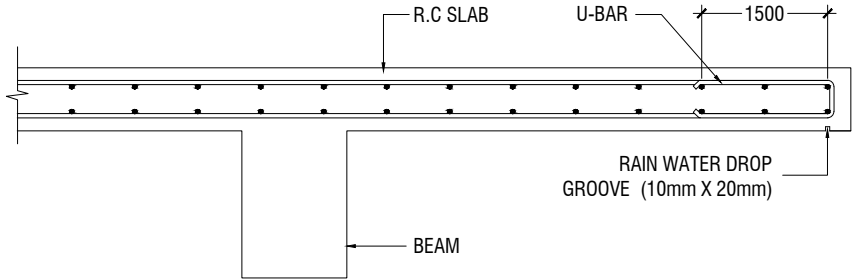
SHEAR LINKS ANCHORAGE DETAIL



SLAB-BEAM ANCHORAGE DETAIL



BEAM TO COLUMN CONNECTION



CANTILEVERED SLAB EDGE DETAIL

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

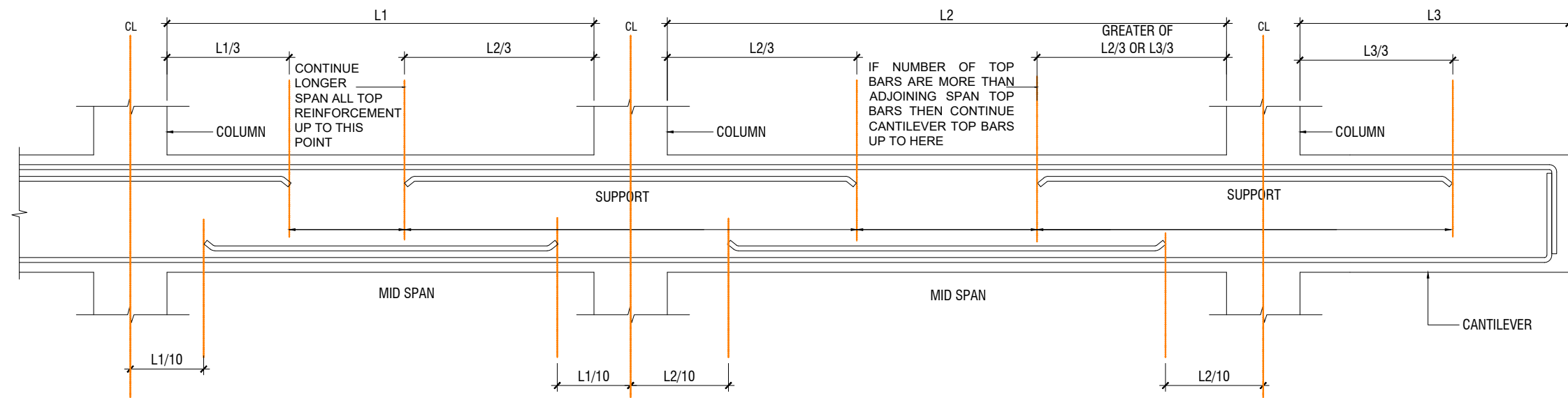
3. NON-SHRINK, NON-METALLIC GROUT WITH A 28 DAY STRENGTH OF 35MPa SHALL BE USED UNDER BASE PLATES AND SHALL CONFORM TO BS EN 12390-3 AND EN 196-1. MASTERFLOW 542 OR EQUIVALENT MAYBE USED.

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.

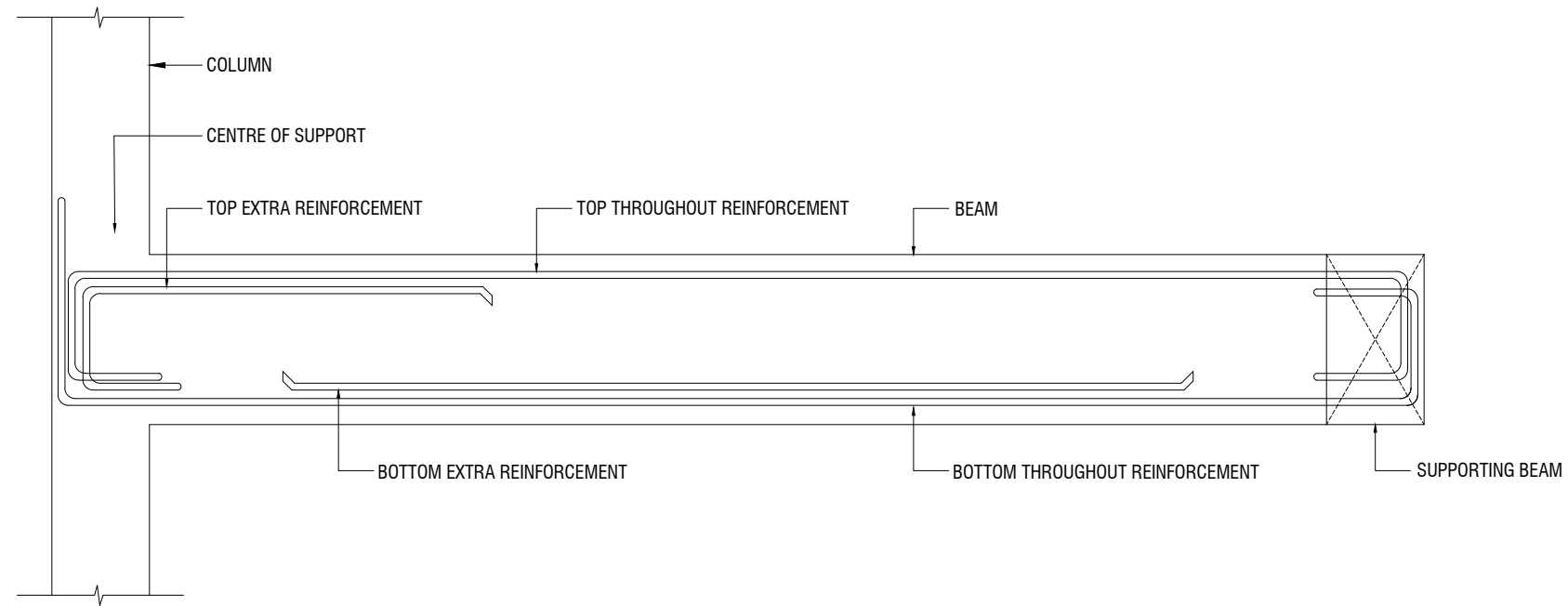
2. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCING WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED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

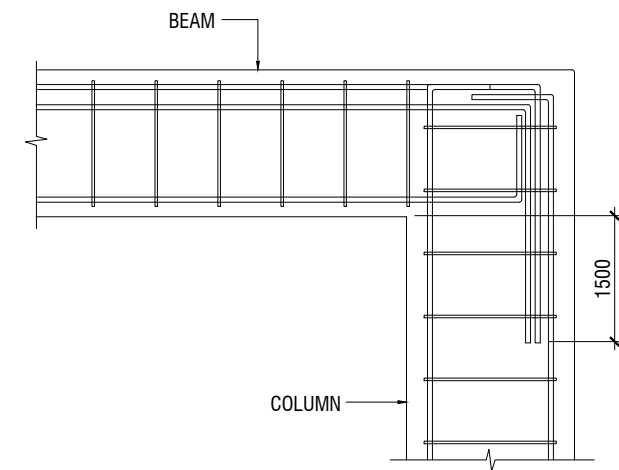


SIMPLIFIED DETAILING RULES FOR BEAMS (BS8110-1)

L1 = SHORTER SPAN
L2 = LONGER SPAN
L3 = CANTILEVER LENGTH

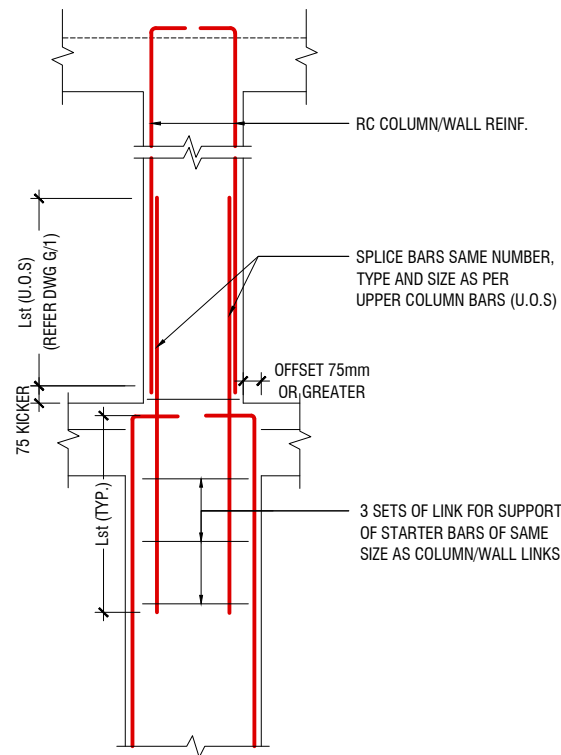


LONGITUDINAL SECTION OF TYPICAL SLAB BEAM SPANNING BETWEEN A COLUMN AND BEAM
SHOWING END SPAN MID SPAN REINFORCEMENT DETAILS

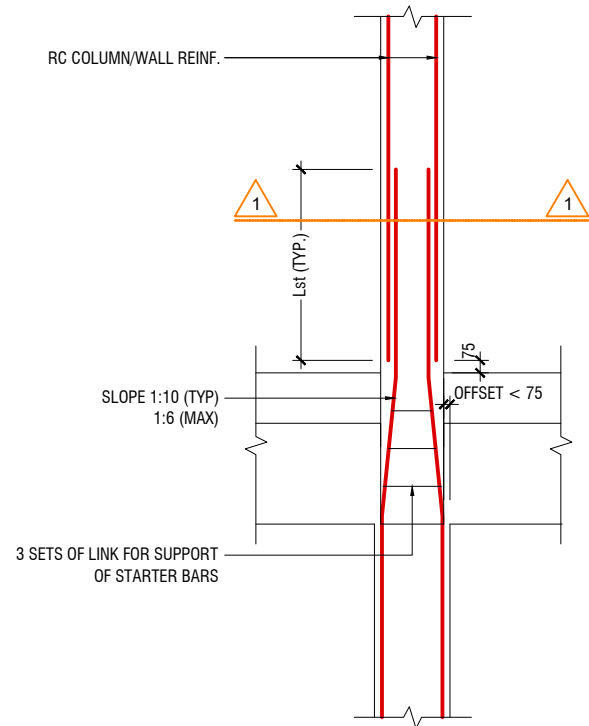


END COLUMN TO BEAM CONNECTION

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

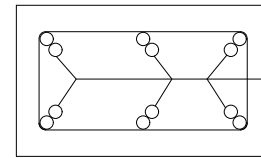


A) FOR COLUMN OFFSET > 75mm
TO BE VERIFIED BY THE CONSULTING ENGINEER



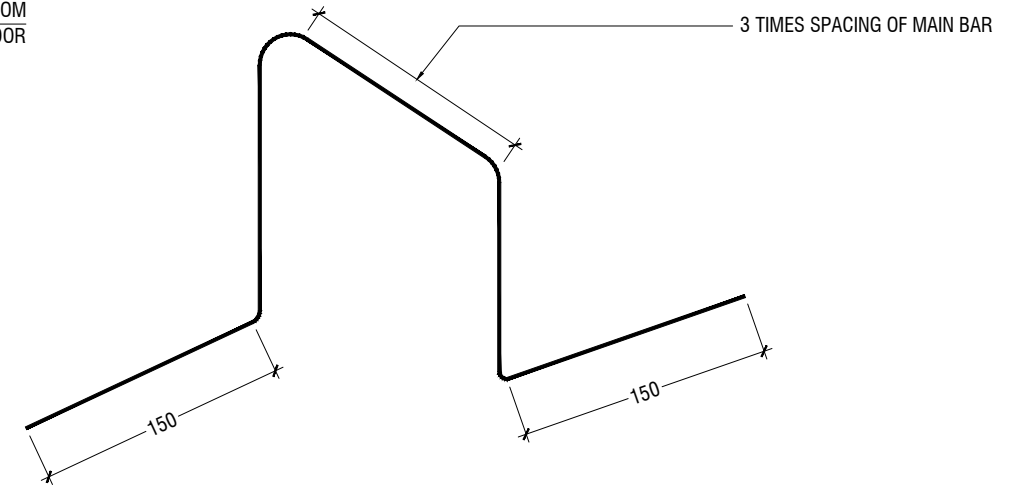
B) FOR COLUMN OFFSET < 75mm

COLUMN/WALL REINF. LAPPING DETAIL AT FLOOR LEVEL

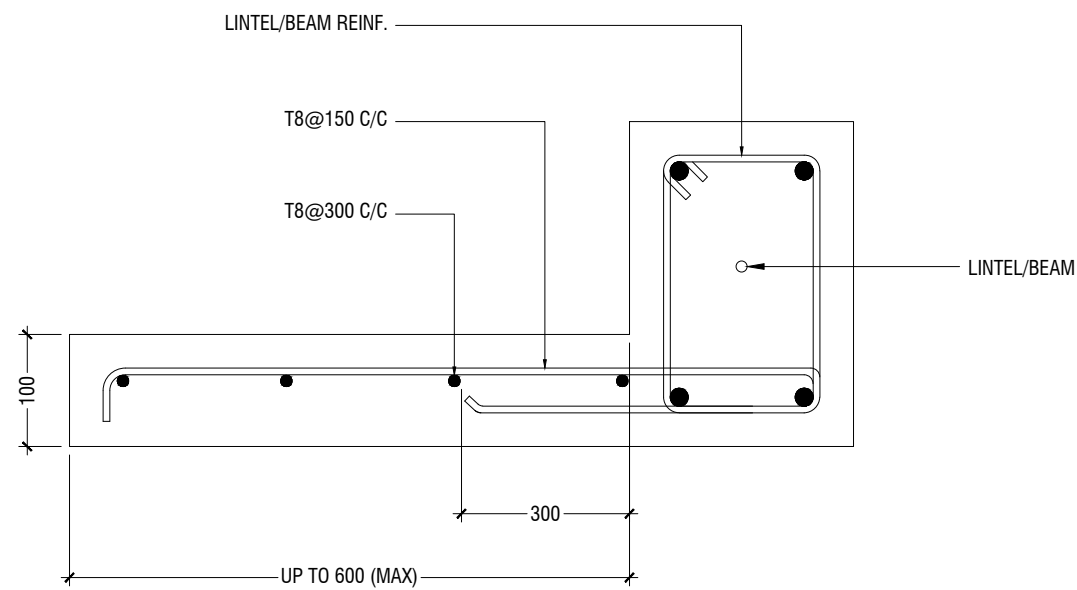


SECTION-1-1

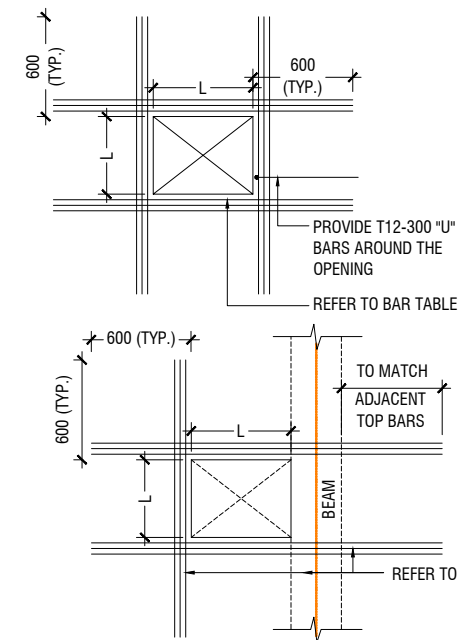
REINF. FROM LOWER FLOOR



TYPICAL CHAIR DETAIL



TYPICAL CANTILEVER DETAILS



FLOOR OPENING (L)	ADD BARS
LESS THAN 250	3T12 T & B
L = > 250 < 500	3T16 T & B
L = ≥ 500 < 1000	3T16 T & B

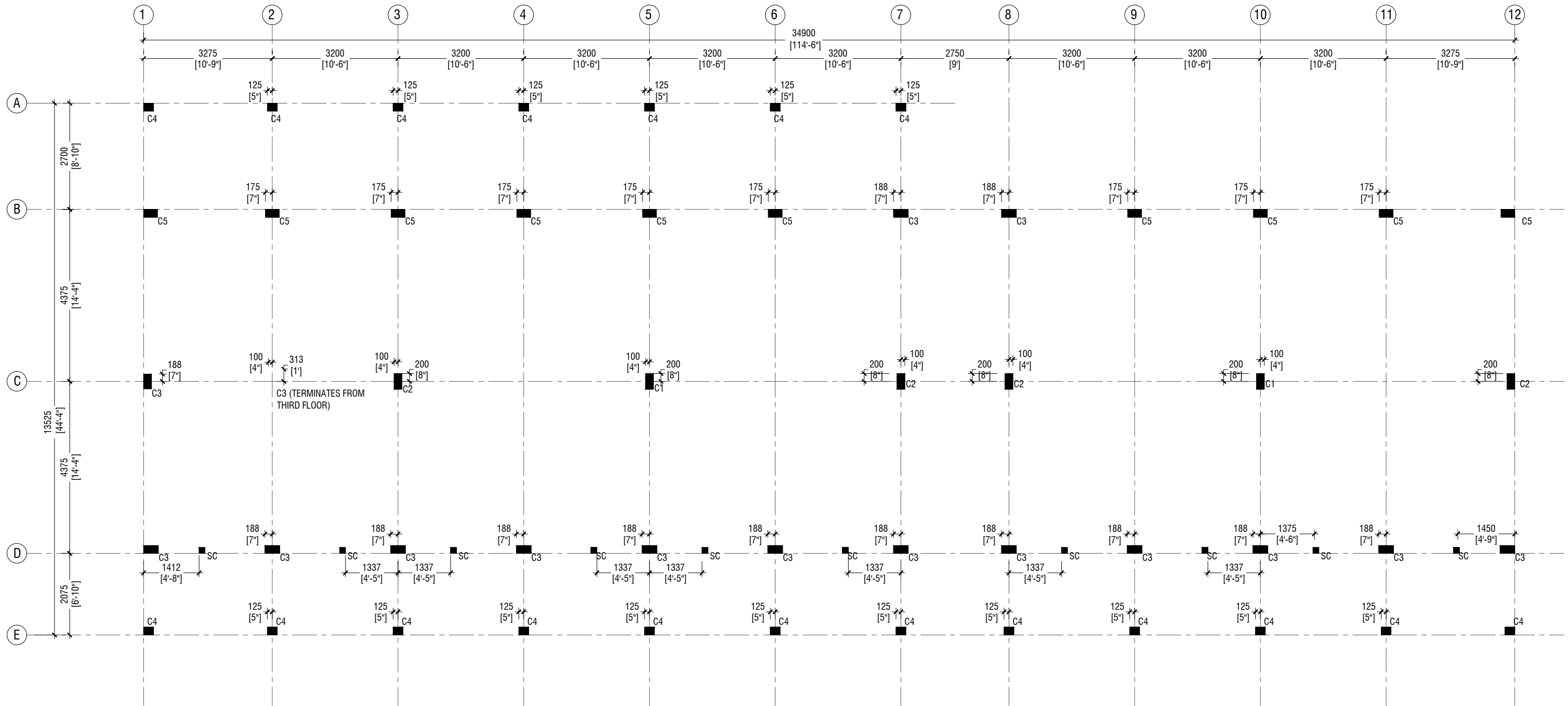
PROVIDE T12-300 "U" BARS AROUND THE OPENING
REFER TO BAR TABLE

TO MATCH ADJACENT TOP BARS
REFER TO BAR TABLE

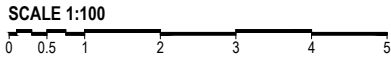
NOTE:-

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

TYPICAL TRIMMER BARS DETAILS FOR OPENING IN SLABS



FIRST - THIRD FLOOR COLUMN LAYOUT PLAN



NOTE:

COLUMN SIZES	
C1	: 225 x 450 mm
C2	: 225 x 450 mm
C3	: 200 x 375 mm
C4	: 200 x 250 mm
C5	: 200 x 350 mm
SC	: 150 x 150 mm
COVER	: 40mm



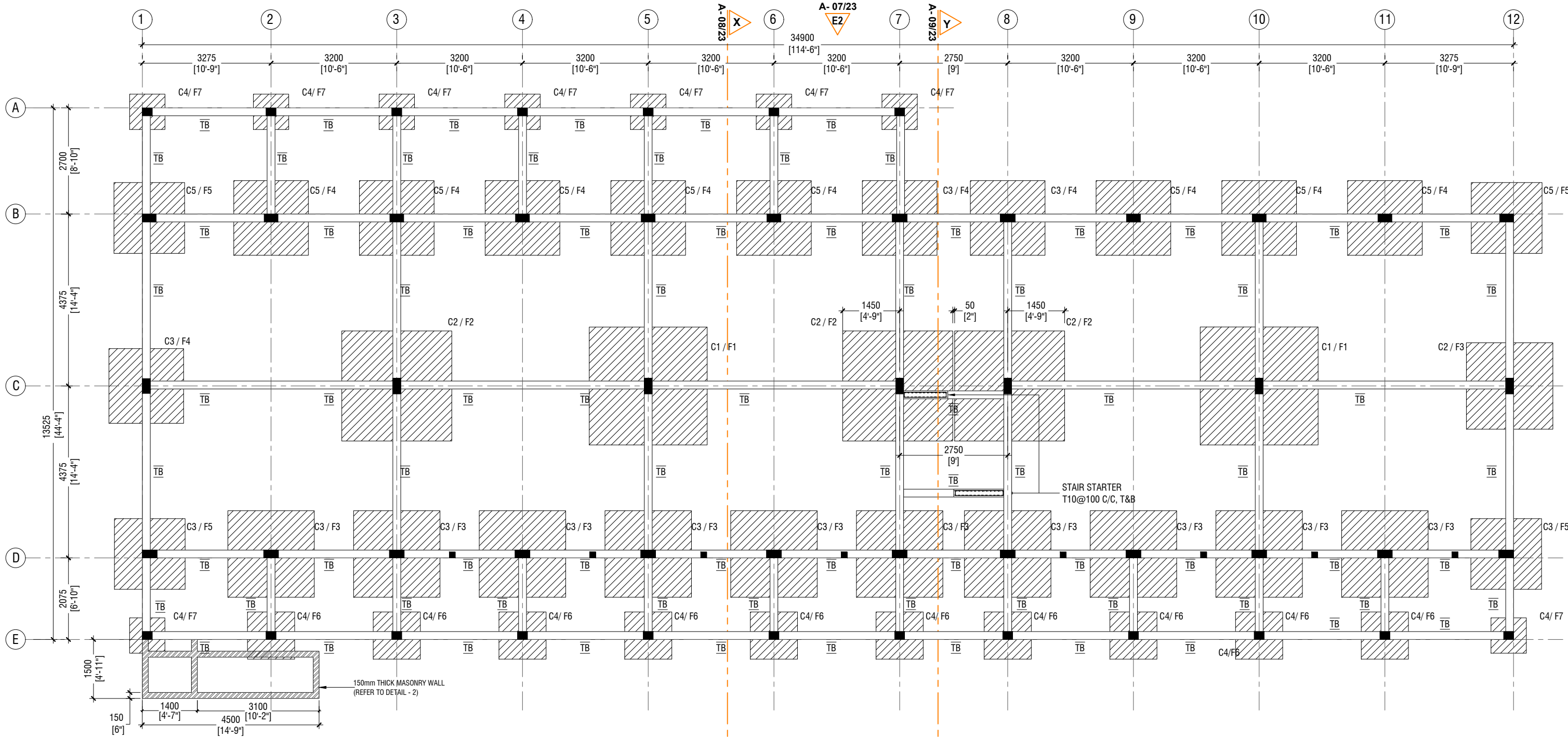
V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
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Date: 23 August 2023
Architect :
Engineer :
Drawn by :
Services :
Interior : -

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Title: Site Plan

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FOUNDATION PLAN

SCALE 1:100



NOTE:

COLUMN SIZES
C1 : 225 x 400 mm
C2 : 225 x 400 mm
C3 : 200 x 300 mm
C4 : 200 x 200 mm
C5 : 200 x 300 mm
SC : 150 x 150 mm
COVER : 40mm

FOUNDATION PAD SIZES

	DIMENSION	REINFORCEMENT
F1	3000 x 3000 x 500	T16@150 C/C B/W (B) & T12@200 C/C B/W (T)
F2	2800 x 2800 x 450	T16@150 C/C B/W (B) & T12@200 C/C B/W (T)
F3	2200 x 2200 x 300	T16@150 C/C B/W (B)
F4	1900 x 1900 x 300	T16@150 C/C B/W (B)
F5	1800 x 1800 x 300	T16@150 C/C B/W (B)
F6	1200 x 1200 x 300	T12@150 C/C B/W (B)
F7	900 x 900 x 300	T12@150 C/C B/W (B)

NOTE:

CONCRETE COVER

COLUMN : 40mm
SLAB : 30mm
BEAM : 35mm
FOOTING : 50mm
TIE BEAM : 50mm

LAP LENGTH FOR BARS

25MM : 1125 mm
20MM : 900 mm
16MM : 720 mm
12MM : 550 mm
10MM : 450 mm

CONCRETE GRADE = M25

SAFE BEARING CAPACITY = 150KPa

HOOK LENGTH AND OTHER DETAILS ARE PROVIDED IN THE GENERAL NOTES

FOUNDATION DEPTH : 1200mm BELOW GROUND LEVEL

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 : 200 x 450 mm
COVER : 50mm

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

-150mm THK. SOLID MASONRY BLOCK WALL

RAMP SLAB : 100mm THK RC SLAB ON COMPACTED FILL
REINFORCED WITH T10@200 C/C BW



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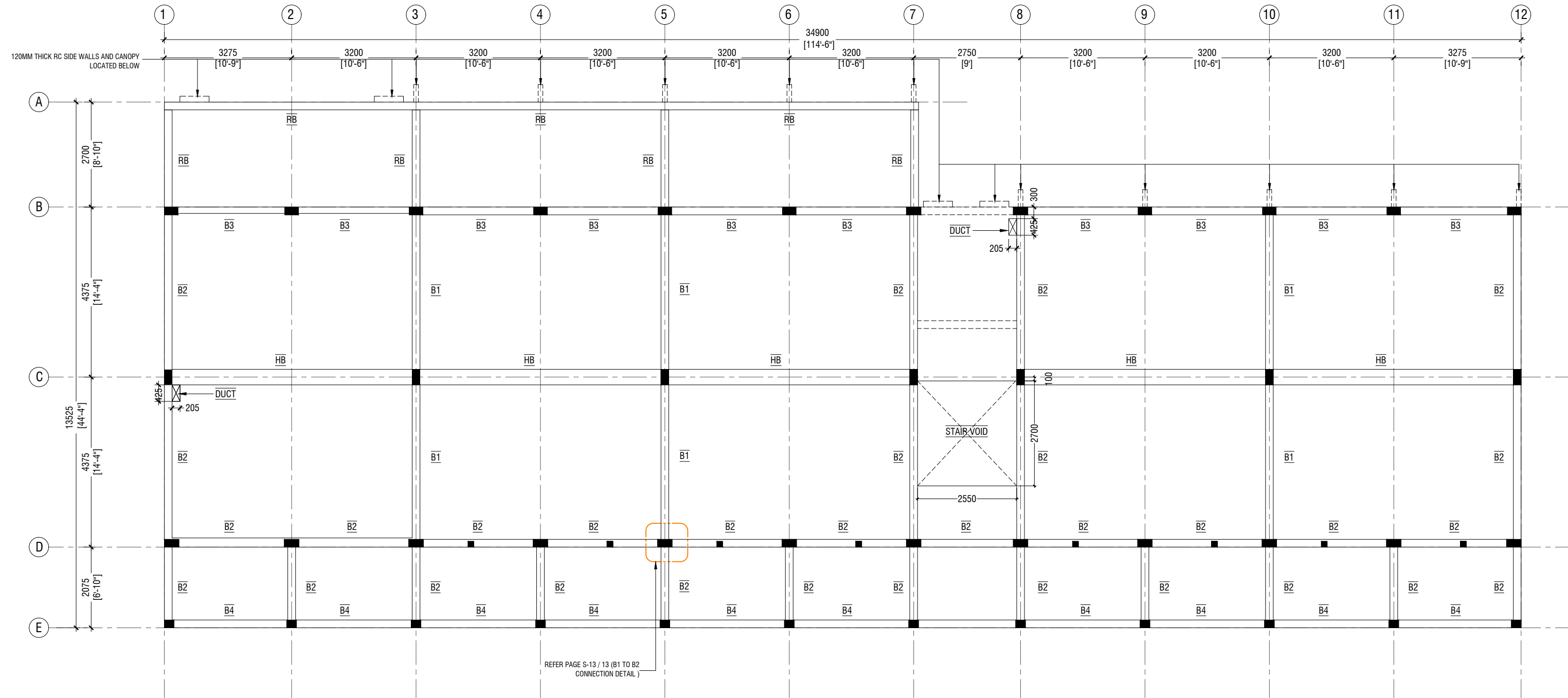
V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
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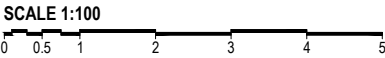
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FIRST FLOOR BEAM PLAN



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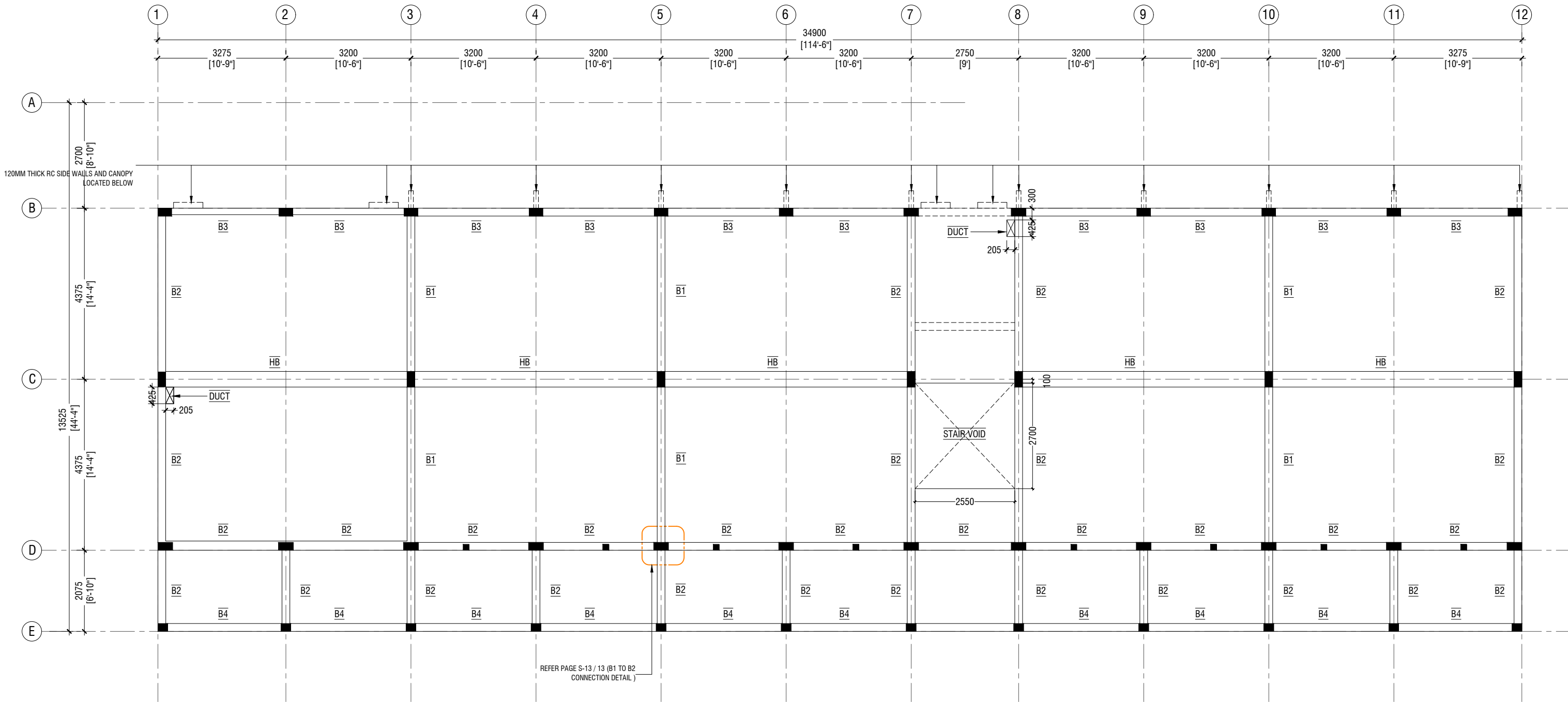
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NOTE:

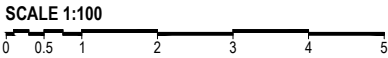
COLUMN SIZES	
C1	: 225 x 450 mm
C2	: 225 x 450 mm
C3	: 200 x 375 mm
C4	: 200 x 250 mm
SC	: 200 x 350 mm
COVER	: 40mm

BEAM SIZES	
B1	: 200x475 mm
B2	: 200x400 mm
B3	: 200x400 mm
HB	: 400x180 mm
COVER	: 35mm

CONCRETE GRADE = M25



SECOND - THIRD FLOOR BEAM PLAN



NOTE:

COLUMN SIZES

C1	: 225 x 450 mm
C2	: 225 x 450 mm
C3	: 200 x 375 mm
C4	: 200 x 250 mm
SC	: 200 x 350 mm
COVER	: 40mm

BEAM SIZES

B1	: 200x475 mm
B2	: 200x400 mm
B3	: 200x400 mm
HB	: 400x180 mm
COVER	: 35mm

CONCRETE GRADE = M25



PHYSICAL FACILITIES
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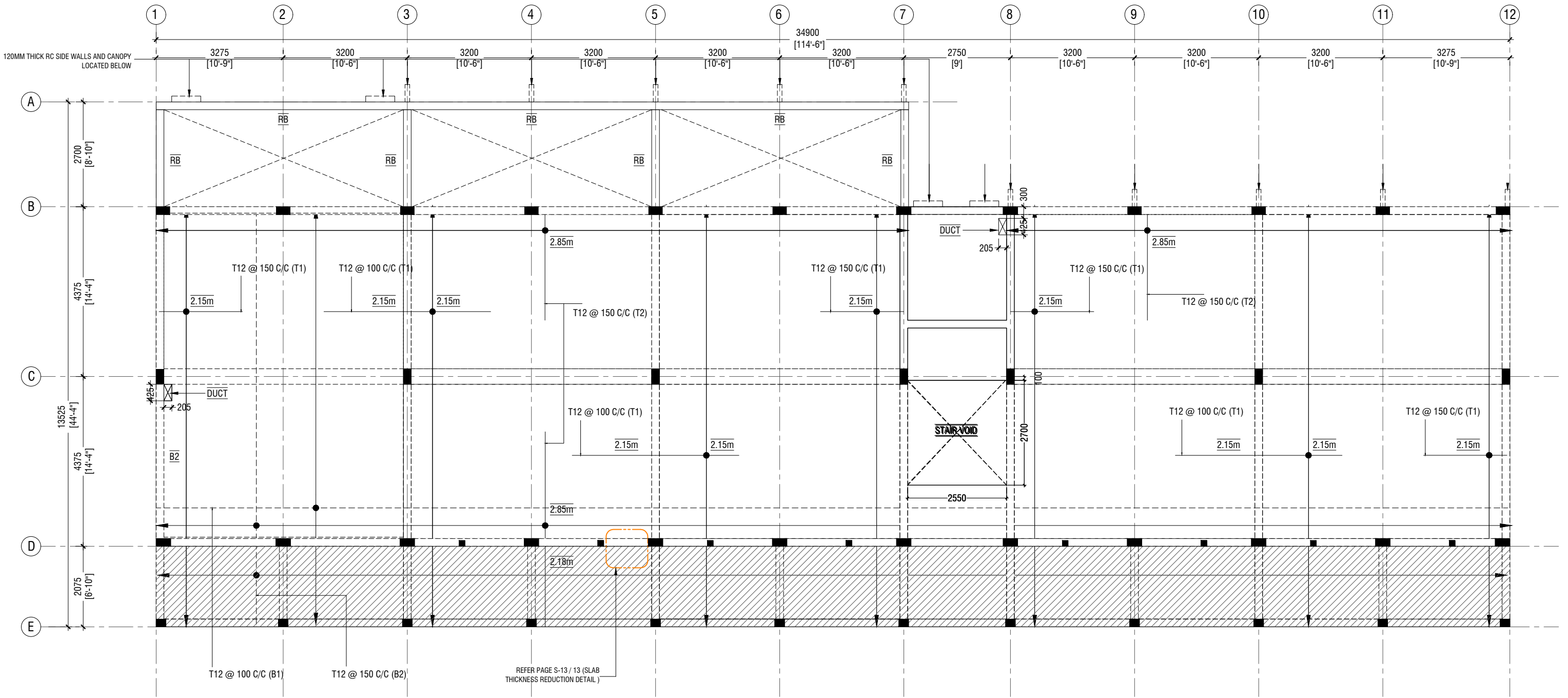
V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
Client: Ministry of Education

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FIRST - SLAB REINFORCEMENT PLAN

SCALE 1:100



NOTE

- SLAB THICKNESS: 180mm
- SLAB THICKNESS: 135mm
- BOTTOM REINFORCEMENT: T12@100C/C ALONG SHORT DIRECTION (B1)
T12@ 150 C/C ALONG LONGER DIRECTION (B2)
- TOP REINFORCEMENT: T12@150C/C (AS SHOWN, UNLESS STATED)
- TOP DISTRIBUTION STEEL: T12@150C/C(NOT SHOWN,UNLESS STATED)
- ALL REINFORCEMENT TO BE DISCONTINUOUS OVER THE VOIDS



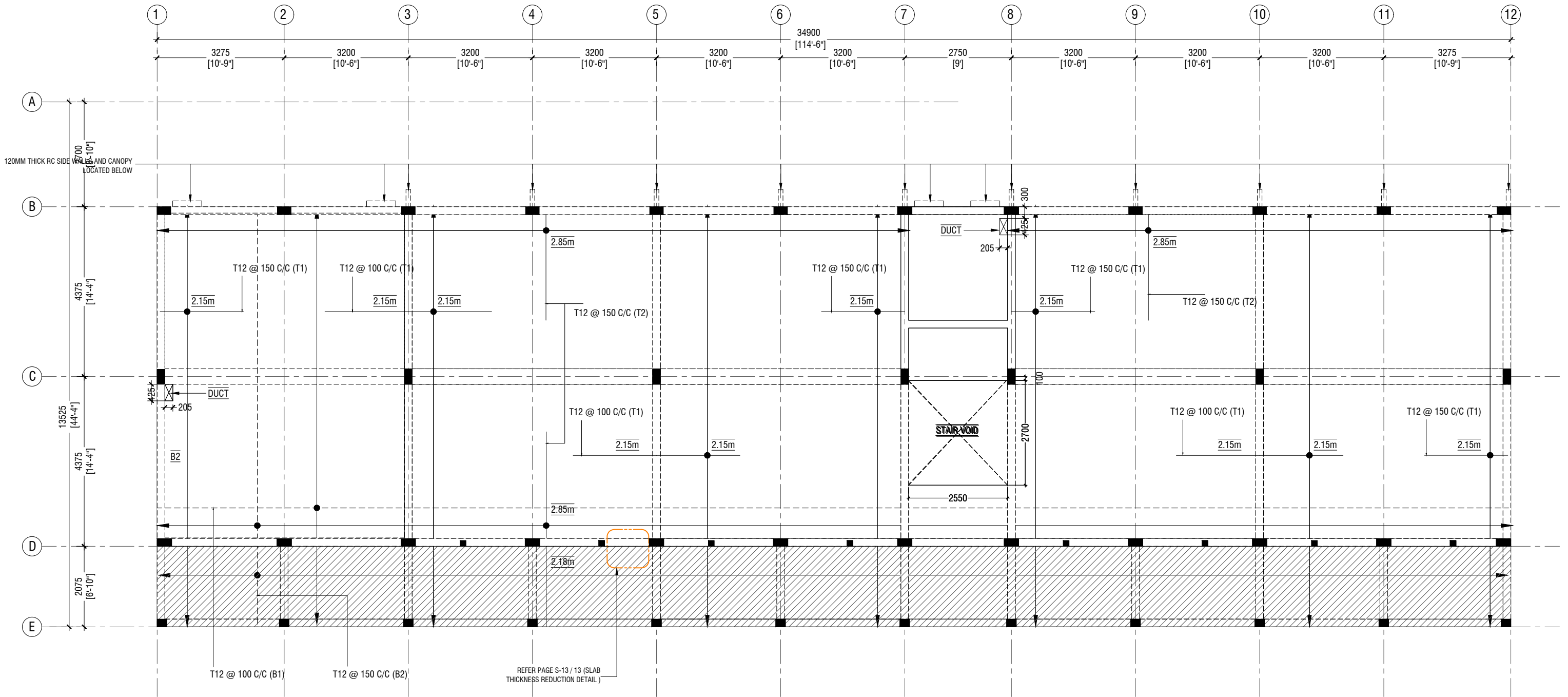
V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
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SECOND -THIRD FLOOR SLAB REINFORCEMENT PLAN

SCALE 1:100



NOTE



SLAB THICKNESS: 180mm



SLAB THICKNESS: 135mm

--- BOTTOM REINFORCEMENT:

T12@100C/C ALONG SHORT DIRECTION (B1)
T12@ 150 C/C ALONG LONGER DIRECTION (B2)

TOP REINFORCEMENT:

T12@150C/C (AS SHOWN, UNLESS STATED)

TOP DISTRIBUTION STEEL:

T12@150C/C(NOT SHOWN, UNLESS STATED)

ALL REINFORCEMENT TO BE DISCONTINUOUS OVER THE VOIDS



PHYSICAL FACILITIES
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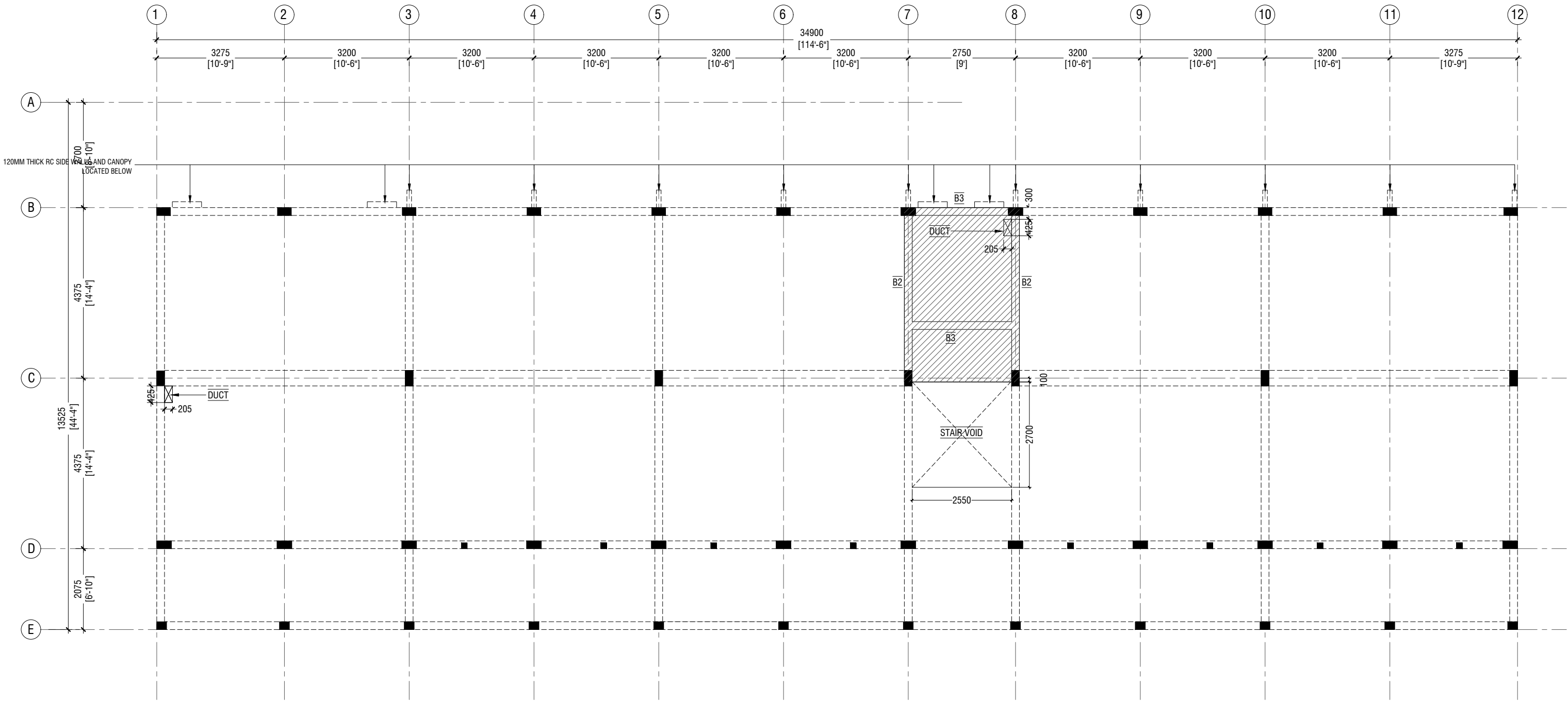
V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
Client: Ministry of Education

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Engineer :
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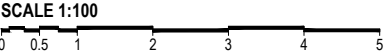
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STORE / HALF LANDING FLOOR BEAM & SLAB REINFORCEMENT PLAN (+1850, +4850 & 7850)



NOTE:

COLUMN SIZES	
C1	: 225 x 450 mm
C2	: 225 x 450 mm
C3	: 200 x 375 mm
C4	: 200 x 250 mm
SC	: 200 x 350 mm
COVER	: 40mm

BEAM SIZES	
B1	: 200x475 mm
B2	: 200x400 mm
B3	: 200x400 mm
HB	: 400x180 mm
COVER	: 35mm

	SLAB THICKNESS: 150mm
REINFORCEMENT: T10@150C/B/W (T&B)	
ALL REINFORCEMENT TO BE DISCONTINUOUS OVER THE VOIDS	



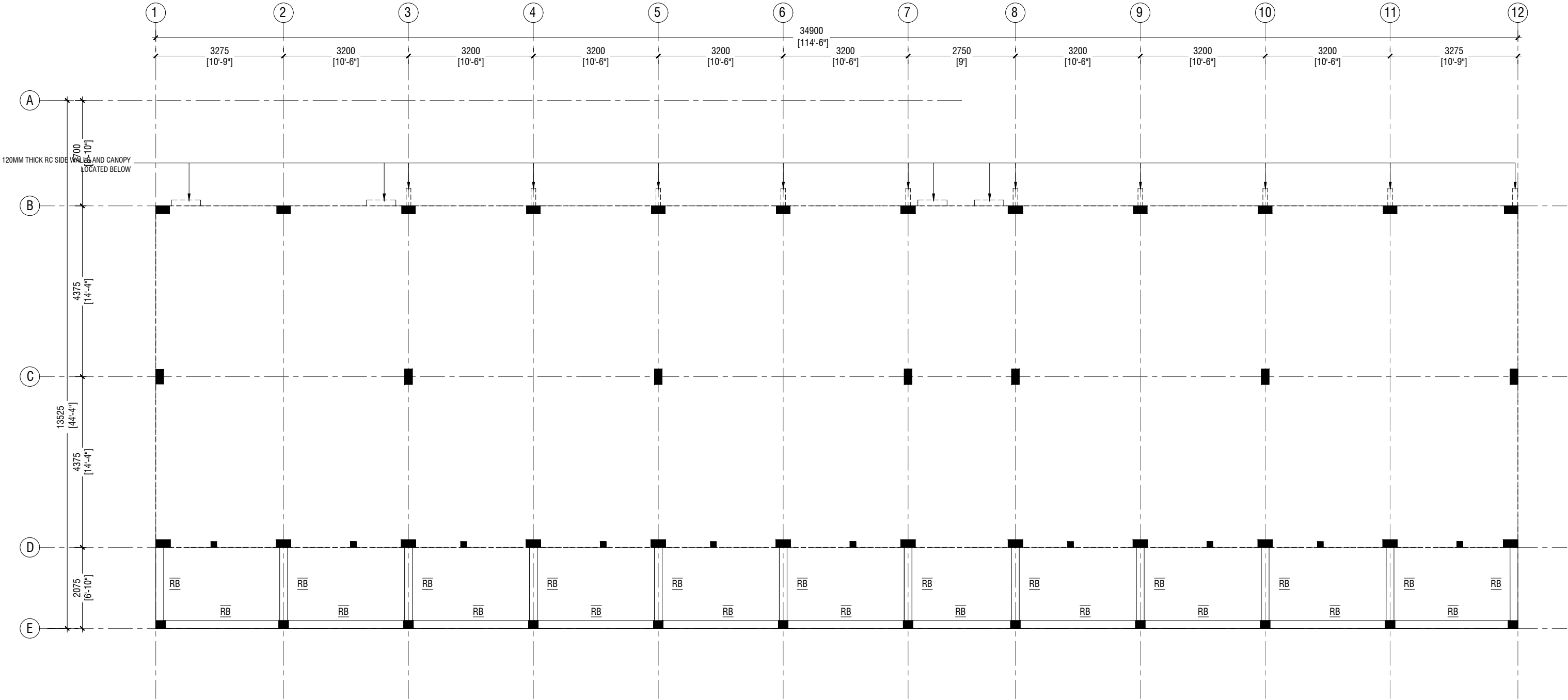
V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
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ROOF BEAM PLAN - 1 @12.15 FROM F.F.L
SCALE 1:100

NOTE:

COLUMN SIZES	
C1	: 225 x 450 mm
C2	: 225 x 450 mm
C3	: 200 x 375 mm
C4	: 200 x 250 mm
SC	: 200 x 350 mm
COVER	: 40mm

BEAM SIZES	
RB	: 200x300 mm
COVER	: 35mm



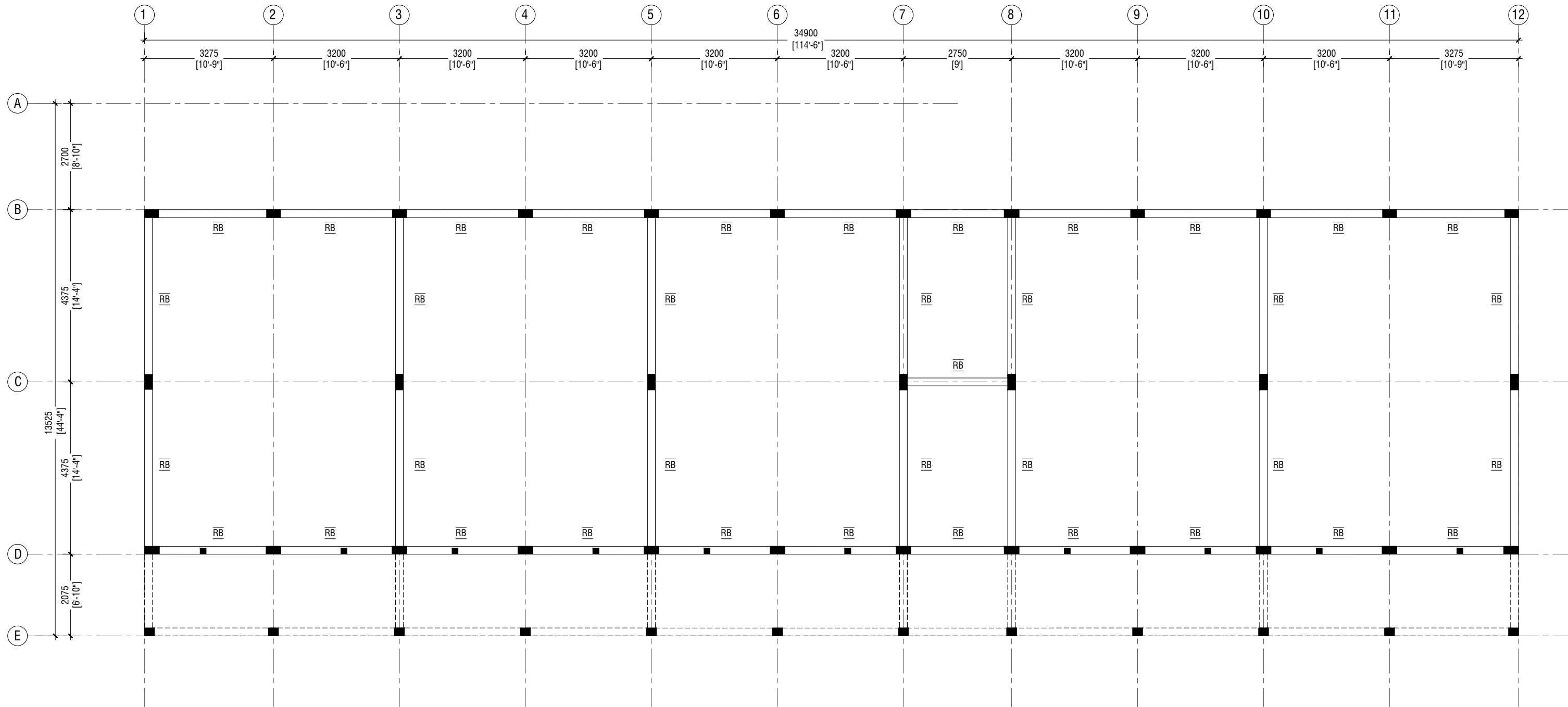
V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
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Architect :
Engineer :
Drawn by :
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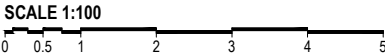
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ROOF BEAM PLAN - 2 @12.706 FROM F.F.L



NOTE:

COLUMN SIZES	
C1	: 225 x 450 mm
C2	: 225 x 450 mm
C3	: 200 x 375 mm
C4	: 200 x 250 mm
SC	: 200 x 350 mm
COVER	: 40mm

BEAM SIZES	
RB	: 200x300 mm
COVER	: 35mm



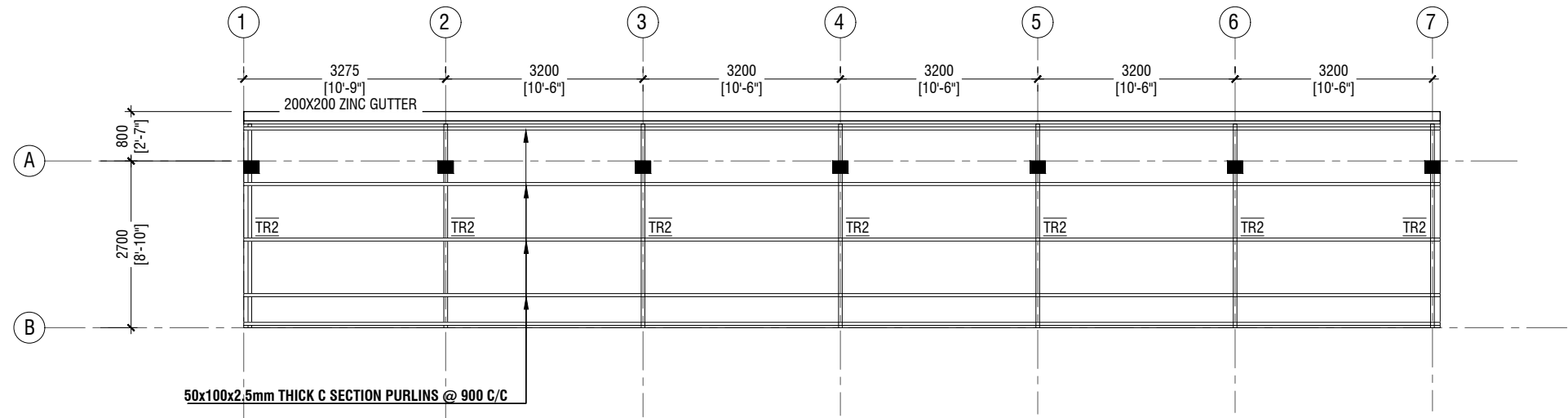
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Client: Ministry of Education

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Engineer :
Drawn by :
Services :
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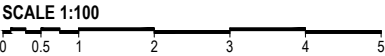
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GROUND ROOF STRUCTURE PLAN



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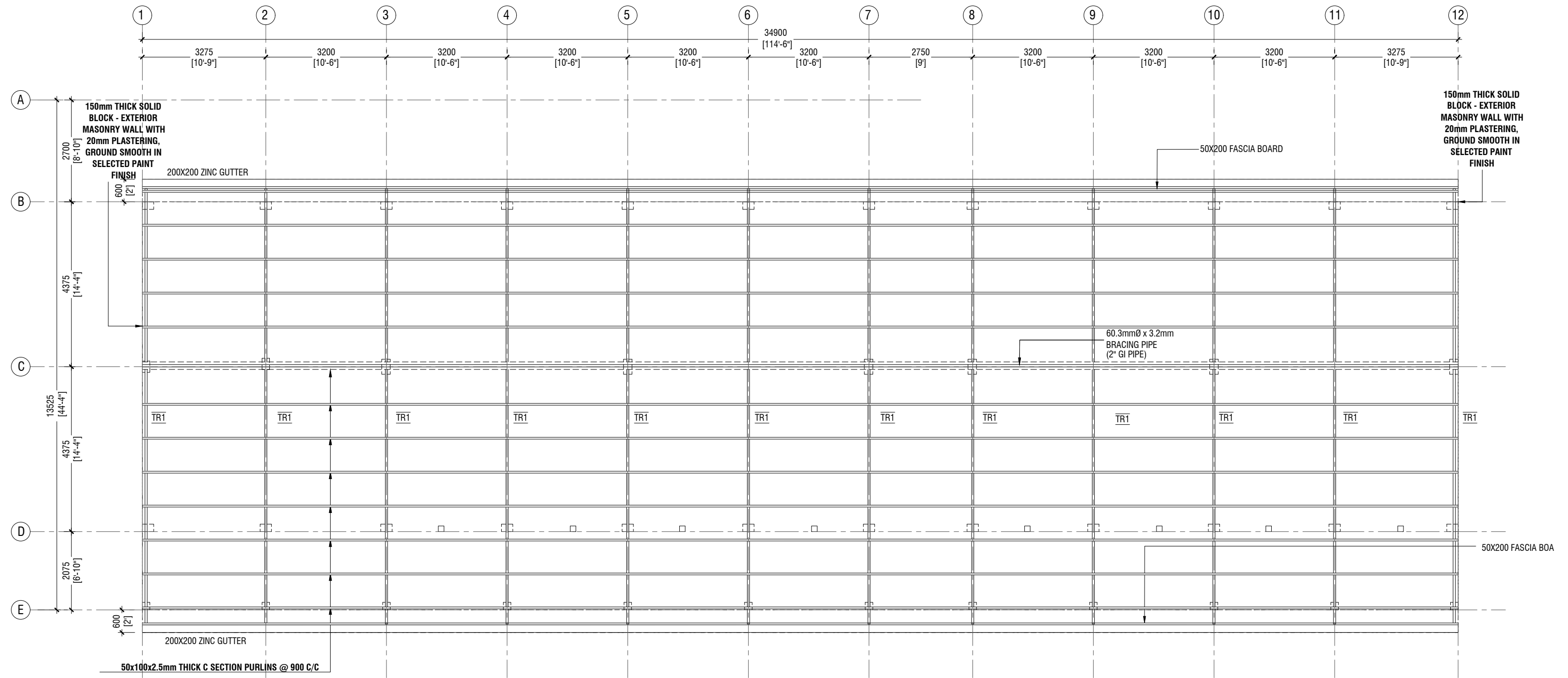
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Client: Ministry of Education

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Date: 23 August 2023
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Engineer :
Drawn by :
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Interior : -

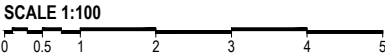
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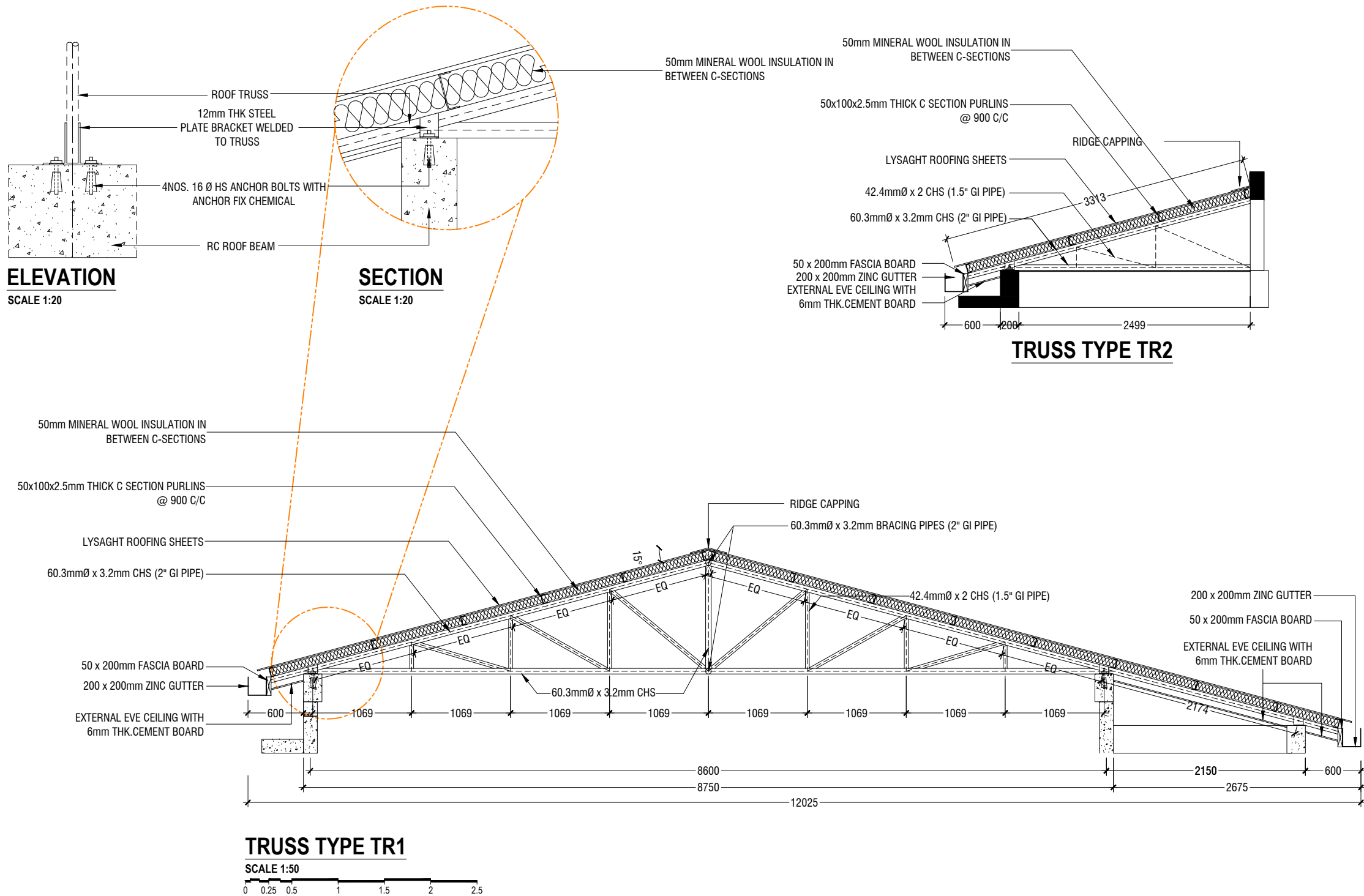
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ROOF STRUCTURE PLAN





NOTE

- 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



PHYSICAL FACILITIES
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Interior: -

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	DIMENSION (L x B x D)	REINFORCEMENT
F1	3000 x 3000 x 500	T16@150 C/C B/W (B) & T12@200 C/C B/W (T)
F2	2800 x 2800 x 450	T16@150 C/C B/W (B) & T12@200 C/C B/W (T)
F3	2200 x 2200 x 300	T16@150 C/C B/W (B)
F4	1900 x 1900 x 300	T16@150 C/C B/W (B)
F5	1800 x 1800 x 300	T16@150 C/C B/W (B)
F6	1200 x 1200 x 300	T12@150 C/C B/W (B)
F7	900 x 900 x 300	T12@150 C/C B/W (B)

FOUNDATION DEPTH = 1200mm

NOTE:-

COVER TO FOUNDATION = 50mm

COVER TO COLUMNS = 40mm

COVER TO BEAMS = 35mm

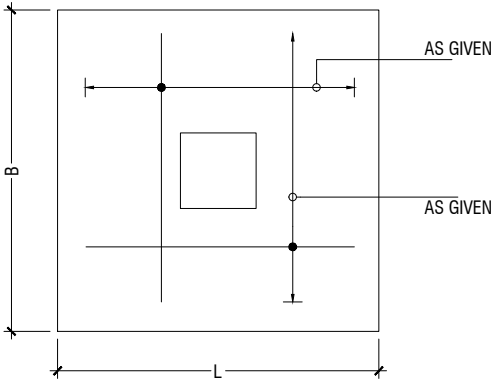
COVER TO SLAB = 30mm

LAPS = Ø OF BAR x 45

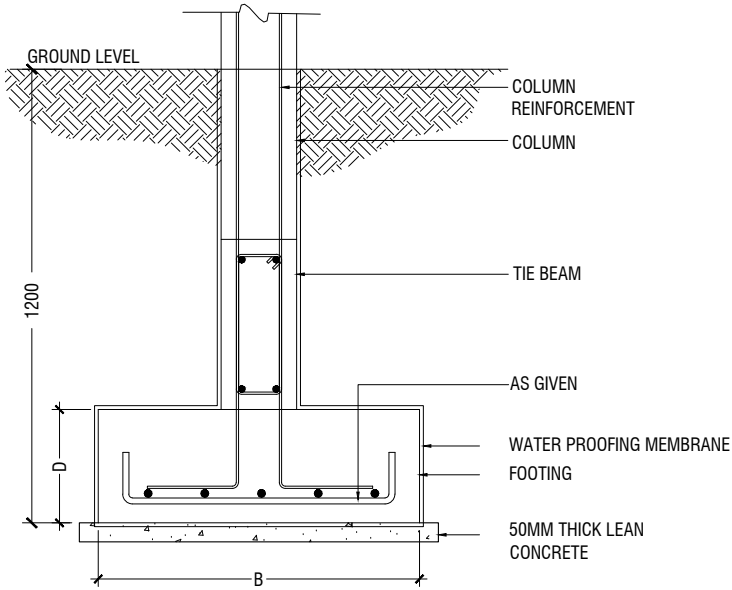
BEAMS @END SUPPORT = Ø OF BAR x 12

GRADE OF CONCRETE = M25

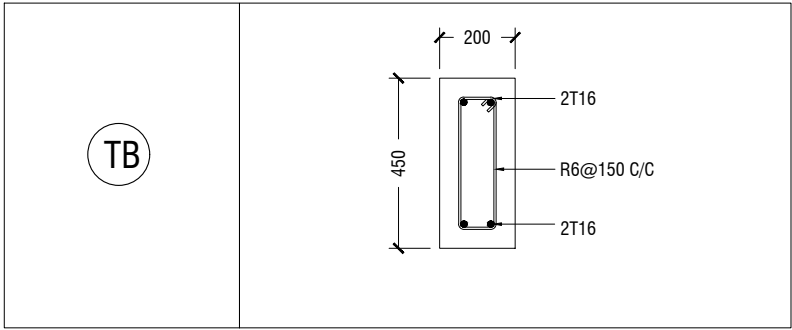
FOUNDATION PADS



PLAN



TYPICAL FOOTING SECTION



FOUNDATION DETAILS

	GROUND & 1ST FLOOR
C1	
C2	
C3	
C4	
C5	
SC	

COLUMN DETAIL STRUCTURAL DETAILS - 1

SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1



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MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
Client: Ministry of Education

Project Number:
Date: 23 August 2023
Architect :
Engineer :
Drawn by :
Services :
Interior : -

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Title: Site Plan

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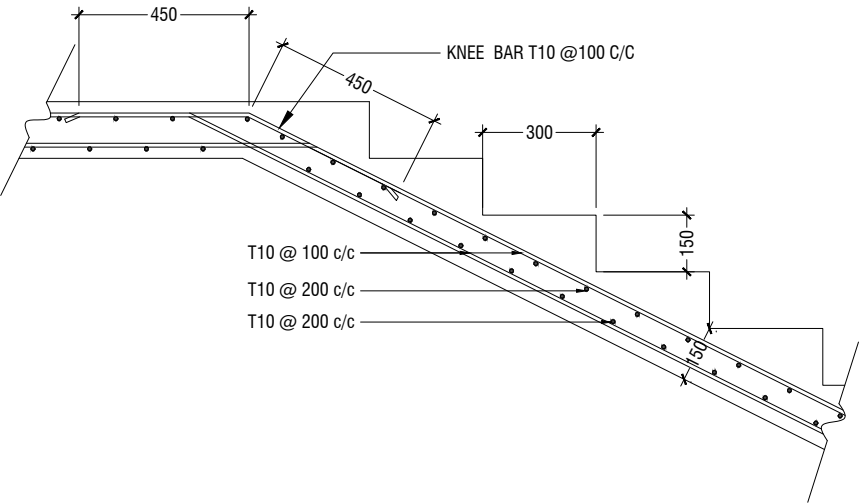
	MIDSPAN	SUPPORT
B1		
B2		
B3		
B4		
RB		
HB		

BEAM DETAIL

NOTE:
PROVIDE 25MM SPACER BAR @ 2000 C/C BETWEEN TWO LAYERS
OF BEAM REINFORCEMENT

LT1	
LT2	

LINTELS OVER ALL DOORS, WINDOWS
(THAT DOES NOT RISE TO ROOF BEAM LEVEL)
LT2 FOR WINDOW (W2) ONLY



MAIN STAIRCASE REINFORCEMENT DETAIL

STRUCTURAL DETAILS - 2

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

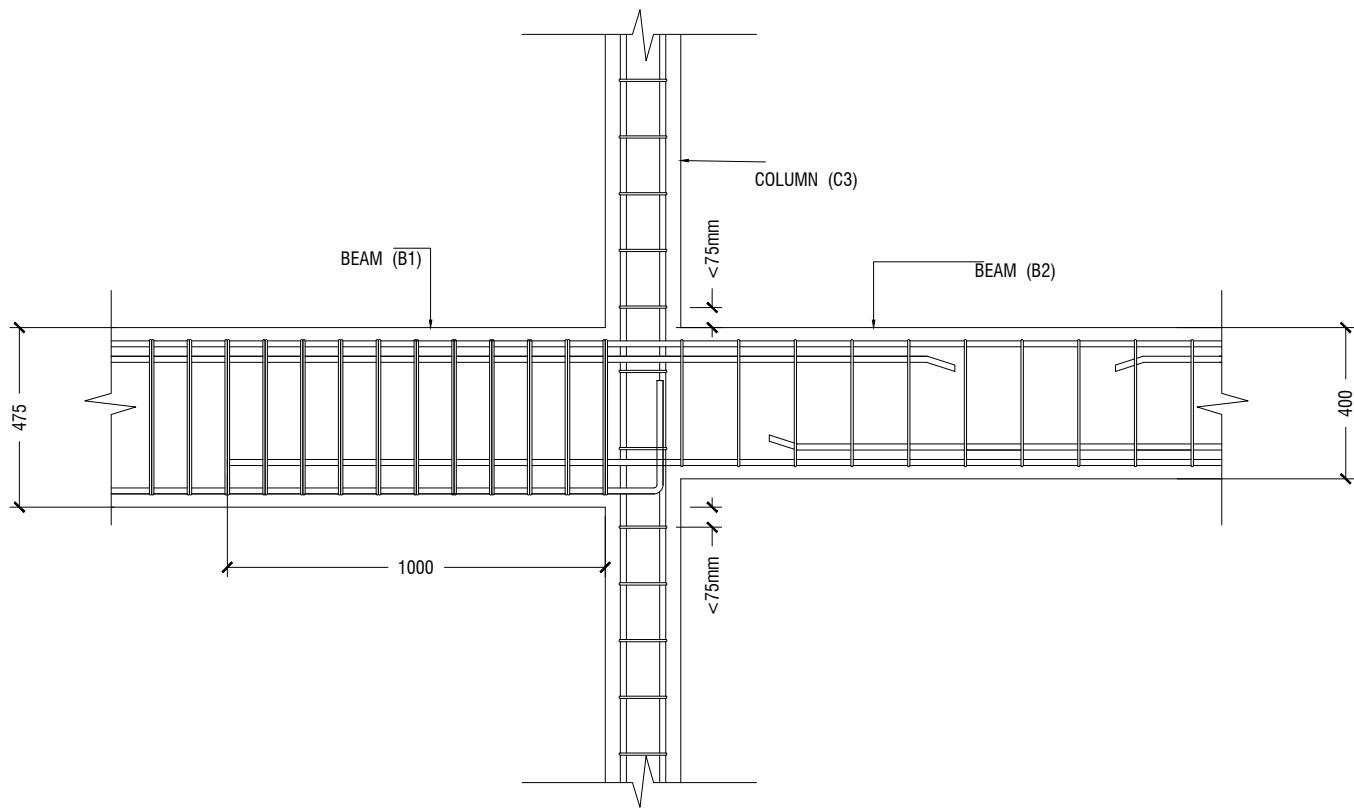
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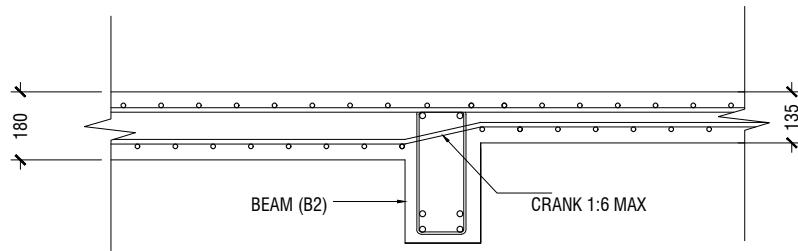
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B1 TO B2 CONNECTION DETAIL



SLAB THICKNESS REDUCTION DETAIL

STRUCTURAL DETAILS - 3

SCALE 1:20



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
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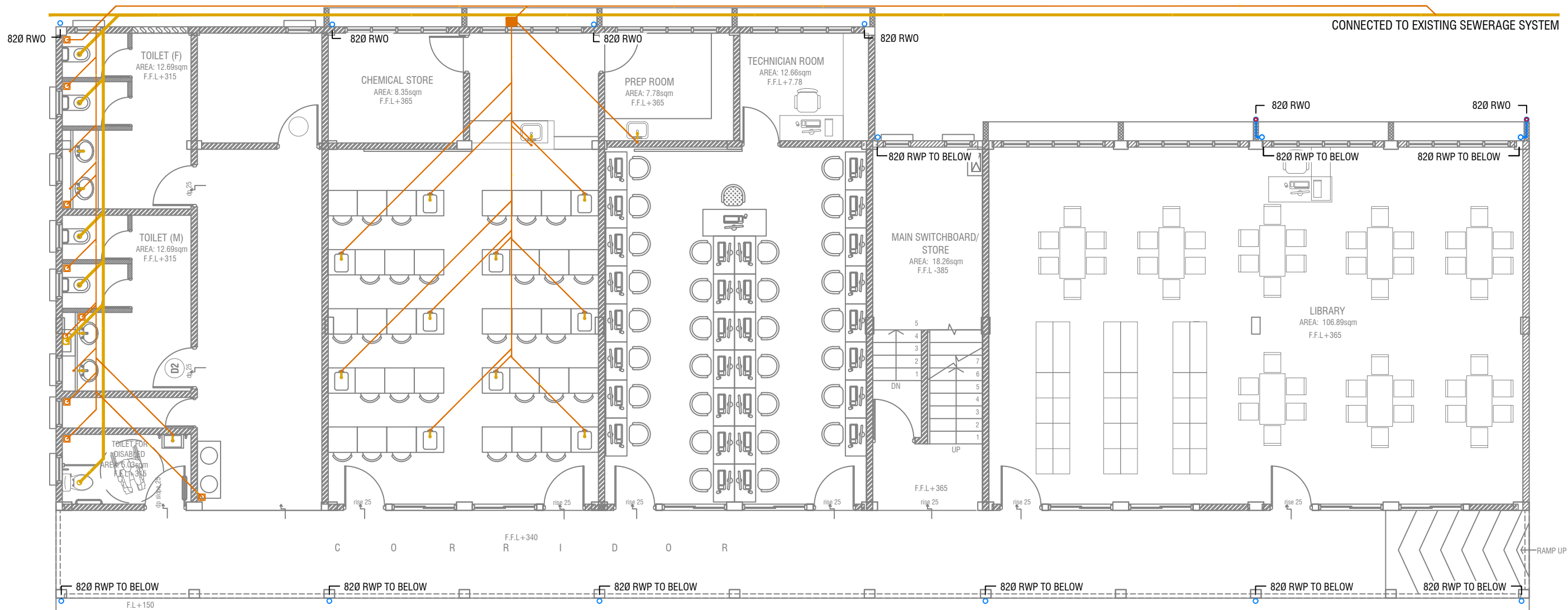
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Proposed 11 Classroom, Staff room, Computer & Science Lab at
V. Keyodhoo School, V. Keyodhoo
(04 Storey)

SERVICES DRAWINGS
Client: Ministry of Education



GROUND FLOOR DRAINAGE LAYOUT

SCALE 1:100

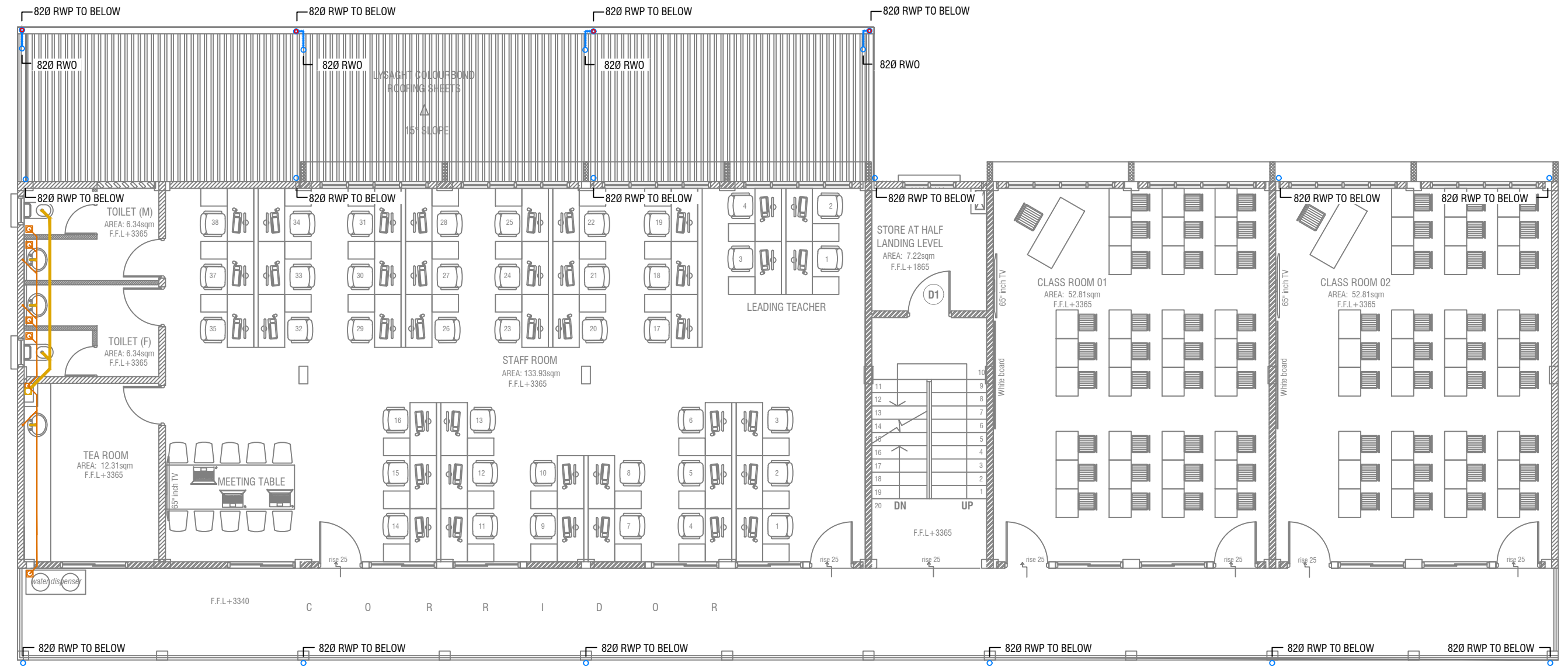


LEGEND

FG	FLOOR GULLY	DT	DILUTION TANK
FD	FLOOR DRAIN		
WM	40 Ø STUB FOR WASHING MACHINE		
SP	110 Ø SOIL PIPE		
SVP	110 Ø SOIL VENT PIPE		
WP	82 Ø WASTE PIPE		
WWP	82 Ø WASTE VENT PIPE		
WP	40 Ø WASTE PIPE		
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
- ALL SOIL AND WASTE PIPES TO BE AT GROUND LEVEL, UNDER THE SLAB.



LEGEND

- FG ■ FLOOR GULLY
- FD ■ FLOOR DRAIN
- WM ○ 40 Ø STUB FOR WASHING MACHINE
- SP — 110 Ø SOIL PIPE
- SVP ○ 110 Ø SOIL VENT PIPE
- WP — 82 Ø WASTE PIPE
- WVP ○ 82 Ø WASTE VENT PIPE
- WP — 40 Ø WASTE PIPE
- 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
 - ALL SOIL AND WASTE PIPES TO BE AT GROUND LEVEL, UNDER THE SLAB.

FIRST FLOOR DRAINAGE LAYOUT

SCALE 1:100



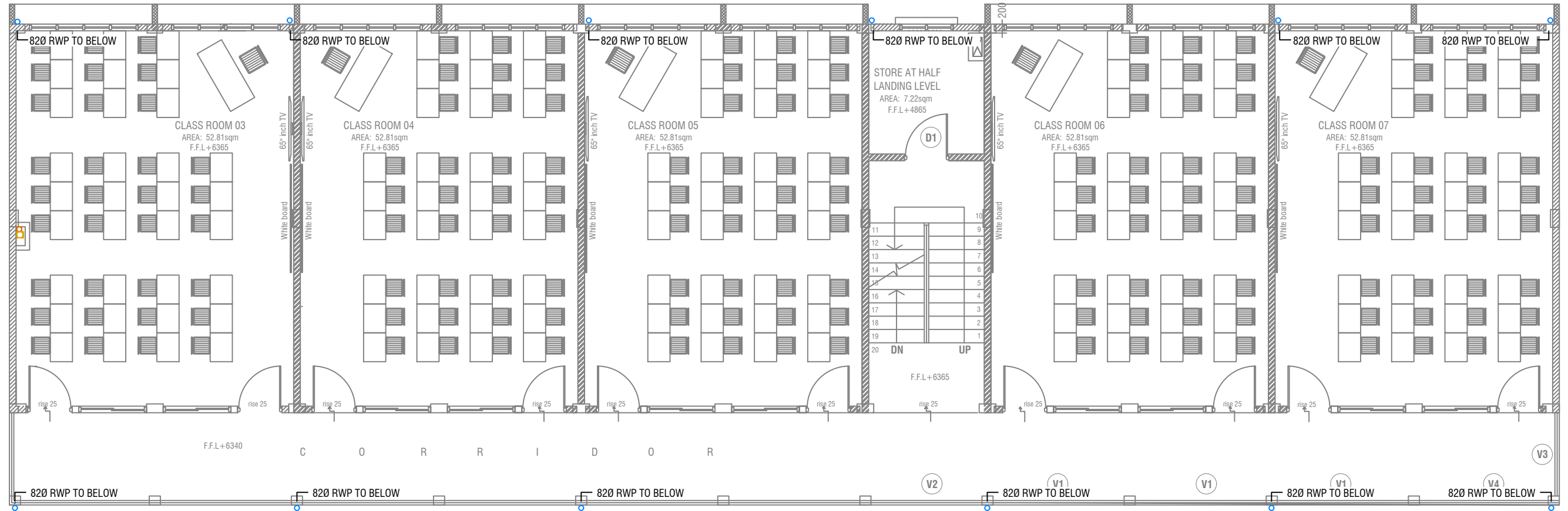
V. Keyodhoo School - 11 Classroom, Staff room, Computer and Science lab (04 Storey)
 Client: Ministry of Education

Project Number:
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LEGEND

LEGEND

- FG ■ FLOOR GULLY
- FD □ FLOOR DRAIN
- WM ○ 40 Ø STUB FOR WASHING MACHINE
- SP — 110 Ø SOIL PIPE
- SVP ○ 110 Ø SOIL VENT PIPE
- WP — 82 Ø WASTE PIPE
- WVP ○ 82 Ø WASTE VENT PIPE
- WP — 40 Ø WASTE PIPE
- 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
 - ALL SOIL AND WASTE PIPES TO BE AT GROUND LEVEL, UNDER THE SLAB.

SECOND FLOOR DRAINAGE LAYOUT

SCALE 1:100



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

V. Keyodhoo School - 11 Classroom, Staff room, Computer and Science lab (04 Storey)
Client: Ministry of Education

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LEGEND

LEGEND

- FG ■ FLOOR GULLY
- FD □ FLOOR DRAIN
- WM ○ 40 Ø STUB FOR WASHING MACHINE
- SP — 110 Ø SOIL PIPE
- SVP ○ 110 Ø SOIL VENT PIPE
- WP — 82 Ø WASTE PIPE
- WVP ○ 82 Ø WASTE VENT PIPE
- WP — 40 Ø WASTE PIPE
- 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
- ALL SOIL AND WASTE PIPES TO BE AT GROUND LEVEL, UNDER THE SLAB.

THIRD FLOOR DRAINAGE LAYOUT

SCALE 1:100



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

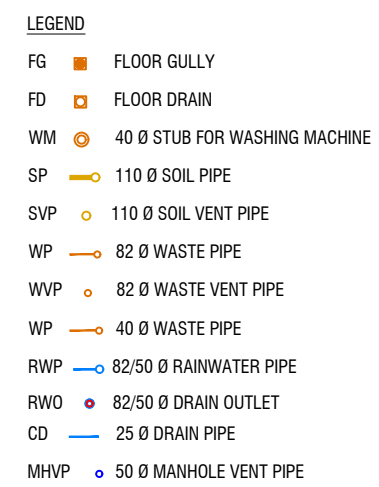
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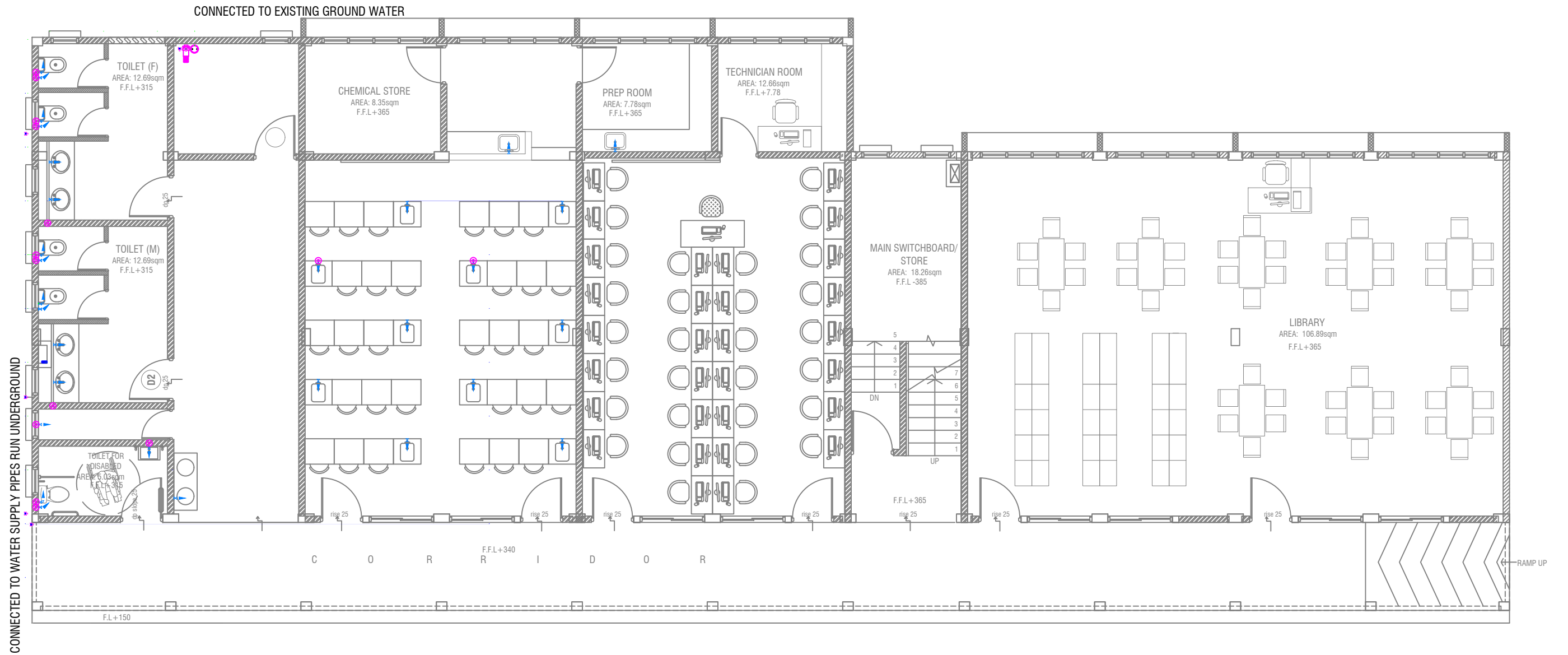
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SCALE 1:100





GROUND FLOOR PLUMBING LAYOUT

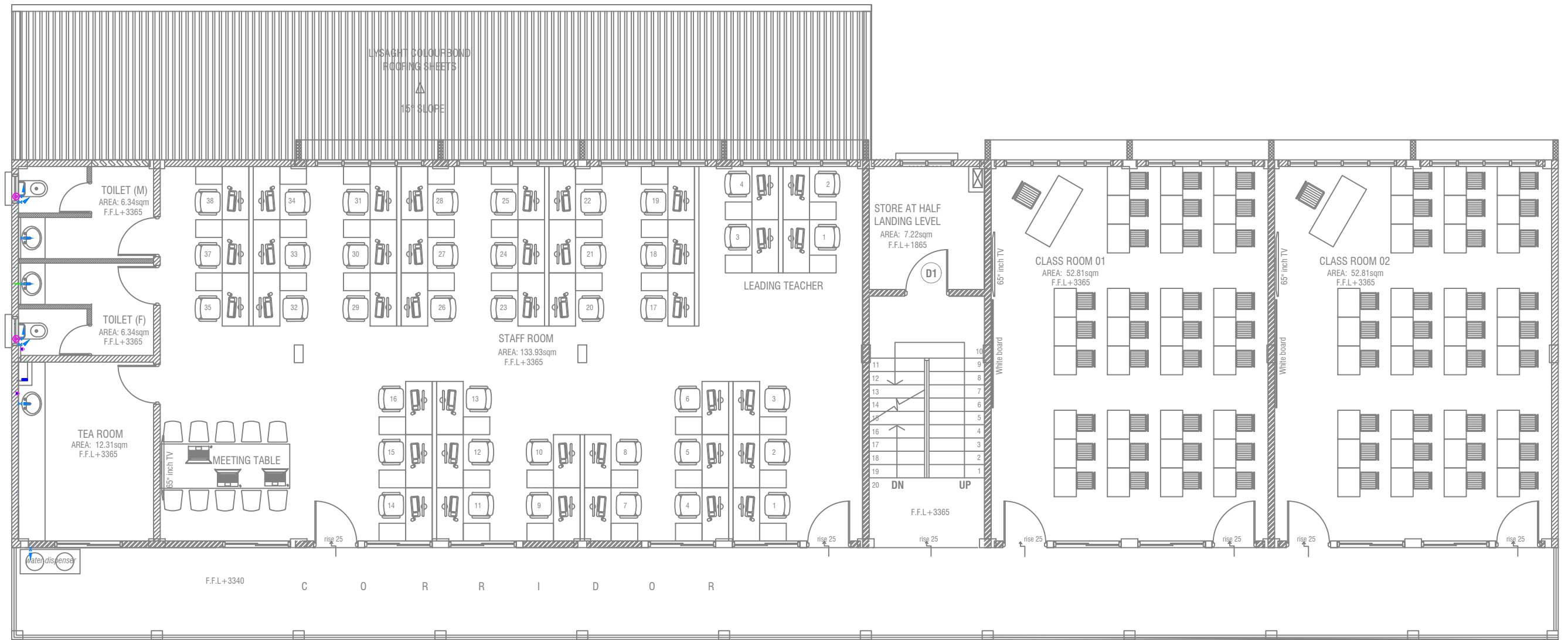
SCALE 1:100



LEGEND

- 16 Ø COLD WATER SUPPLY TO CISTERN
- 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
- 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
- GV GATE VALVE
- 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
- 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
- RISE IN WALL
- DROP IN WALL
- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- GROUND WATER SUPPLY

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



FIRST FLOOR PLUMBING LAYOUT

SCALE 1:100



LEGEND

- 16 Ø COLD WATER SUPPLY TO CISTERN
- 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
- 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
- GV GATE VALVE
- 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
- 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
- RISE IN WALL
- DROP IN WALL
- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- GROUND WATER SUPPLY

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



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

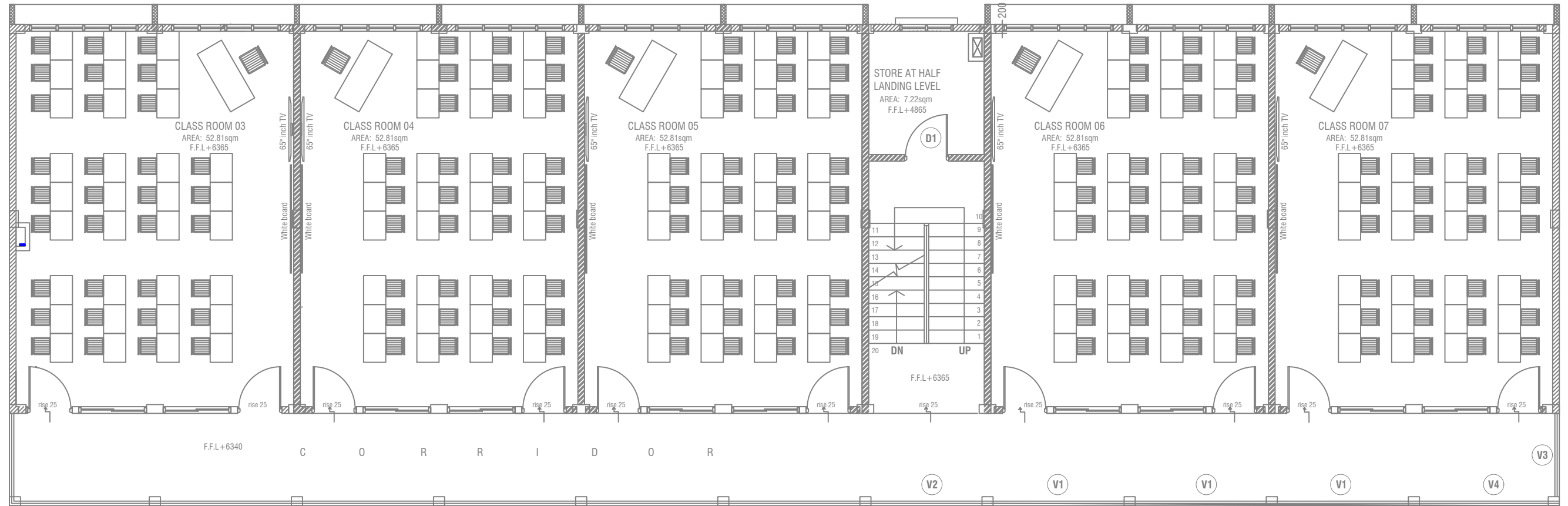
V. Keyodhoo School - 11 Classroom, Staff room, Computer and Science lab (04 Storey)
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SECOND FLOOR PLUMBING LAYOUT

SCALE 1:100



LEGEND

- 16 Ø COLD WATER SUPPLY TO CISTERN
- 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
- 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
- GV GATE VALVE
- 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
- 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
- RISE IN WALL
- DROP IN WALL
- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- GROUND WATER SUPPLY

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



THIRD FLOOR PLUMBING LAYOUT

SCALE 1:100



LEGEND

- 16 Ø COLD WATER SUPPLY TO CISTERN
- 16 Ø COLD WATER SUPPLY TO BIDET SHOWER
- 16 Ø COLD WATER SUPPLY TO BASIN FAUCET / SINK
- GV GATE VALVE
- 25 Ø COLD WATER SUPPLY PIPES RUN UNDERGROUND
- 25 Ø COLD WATER SUPPLY PIPES RUN IN WALL / UNDER FALSE CEILING
- RISE IN WALL
- DROP IN WALL
- CWS COLD WATER SUPPLY
- HWS HOT WATER SUPPLY
- GROUND WATER SUPPLY

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



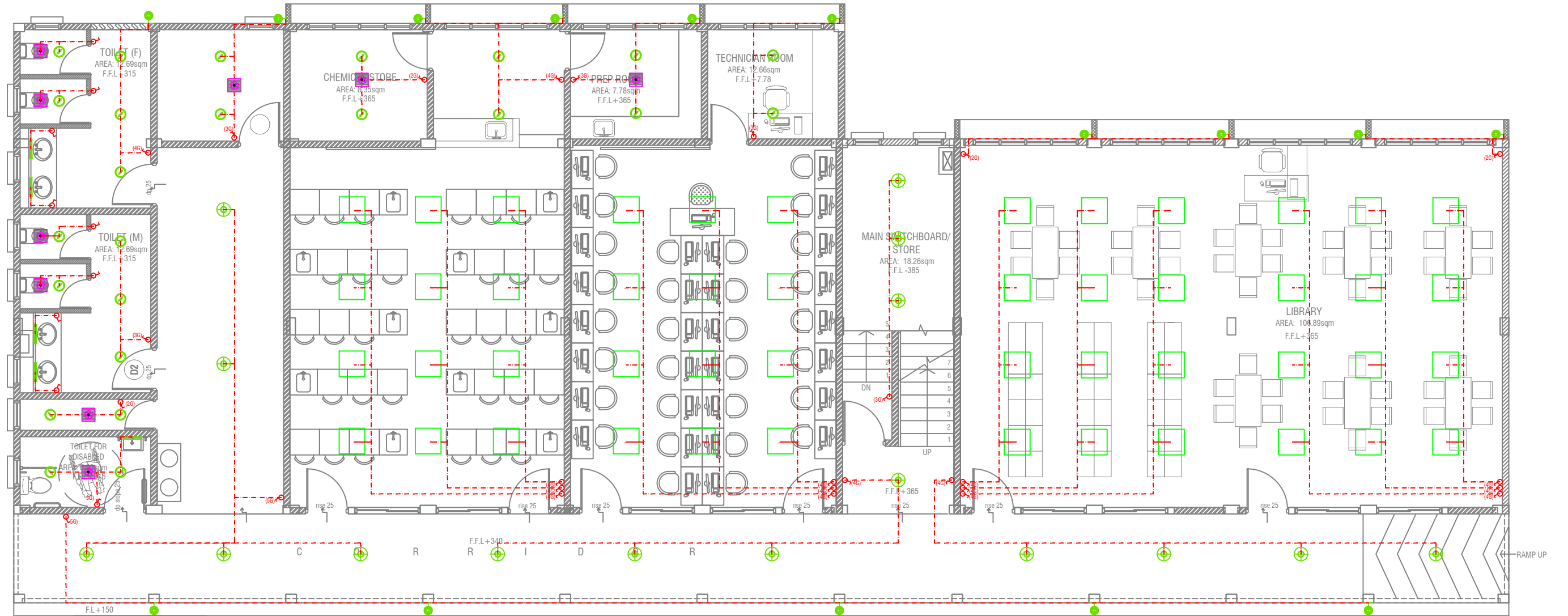
V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
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GROUND FLOOR LIGHTING LAYOUT

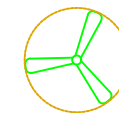
SCALE 1:100



LEGEND

- WPD 40W (IP 65) OUT DOOR WALL LIGHT
- ML MIRROR LIGHT (7W LED LIGHT)
- H2 LED RECESSED DOWN LIGHT 12W
- CL LED CEILING LIGHT 18W
- SL 600x600mm LED PANEL 25W
- WP LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
- C2 LED CEILING DOWN LIGHT (18W)
- LIGHT SWITCH
- SWITCHING LINE
- EXHAUST FAN (CEILING MOUNTED)
- FLEX OUTLET

CL2 LED TUBE LIGHT WITH OPAL CASING



CEILING FAN (52" - 54")

NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
- ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS



PHYSICAL FACILITIES
DEVELOPMENT SECTION
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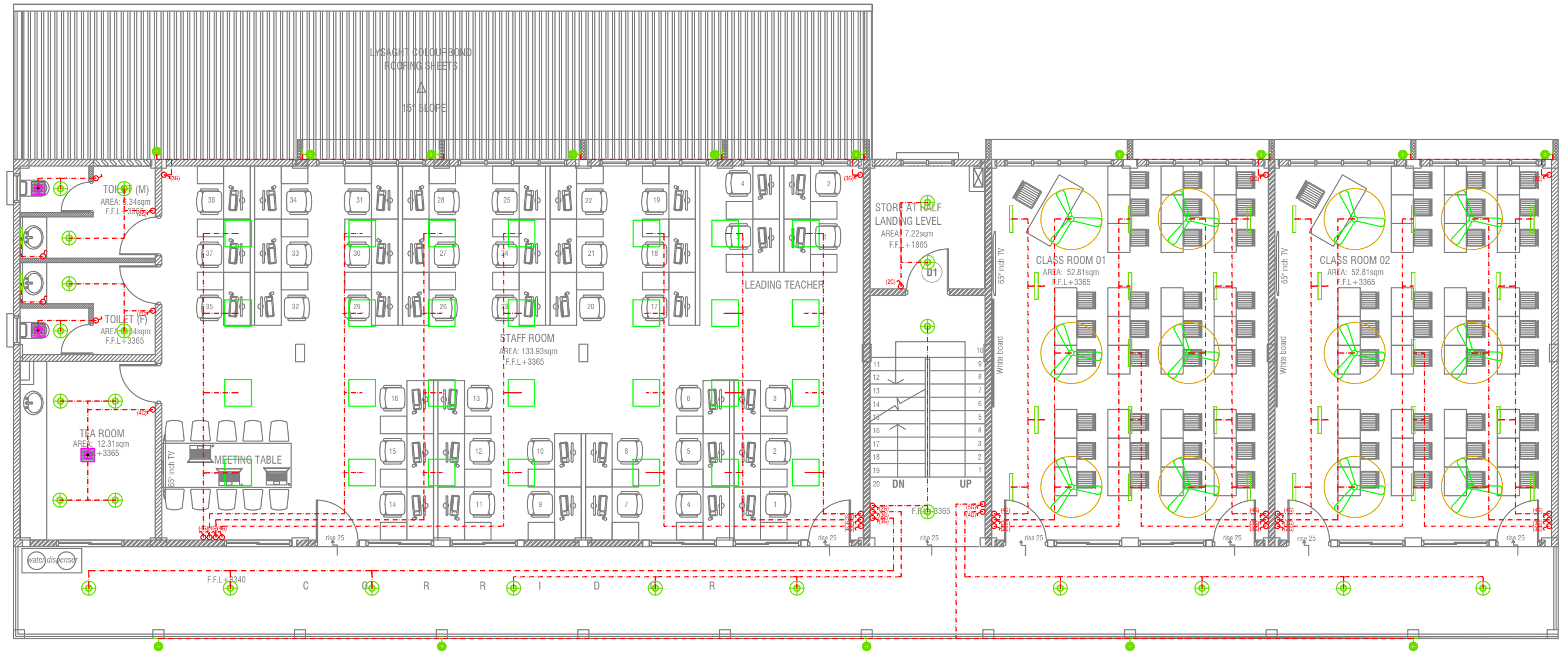
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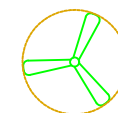
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LEGEND

- WPD 40W (IP 65) OUT DOOR WALL LIGHT
- ML MIRROR LIGHT (7W LED LIGHT)
- H2 LED RECESSED DOWN LIGHT 12W
- CL LED CEILING LIGHT 18W
- SL 600x600mm LED PANEL 25W
- WP LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
- C2 LED CEILING DOWN LIGHT (18W)
- LIGHT SWITCH
- SWITCHING LINE
- EXHAUST FAN (CEILING MOUNTED)
- FLEX OUTLET

CL2 LED TUBE LIGHT WITH OPAL CASING



CEILING FAN (52" - 54")

NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
- ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS

FIRST FLOOR LIGHTING LAYOUT

SCALE 1:100



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

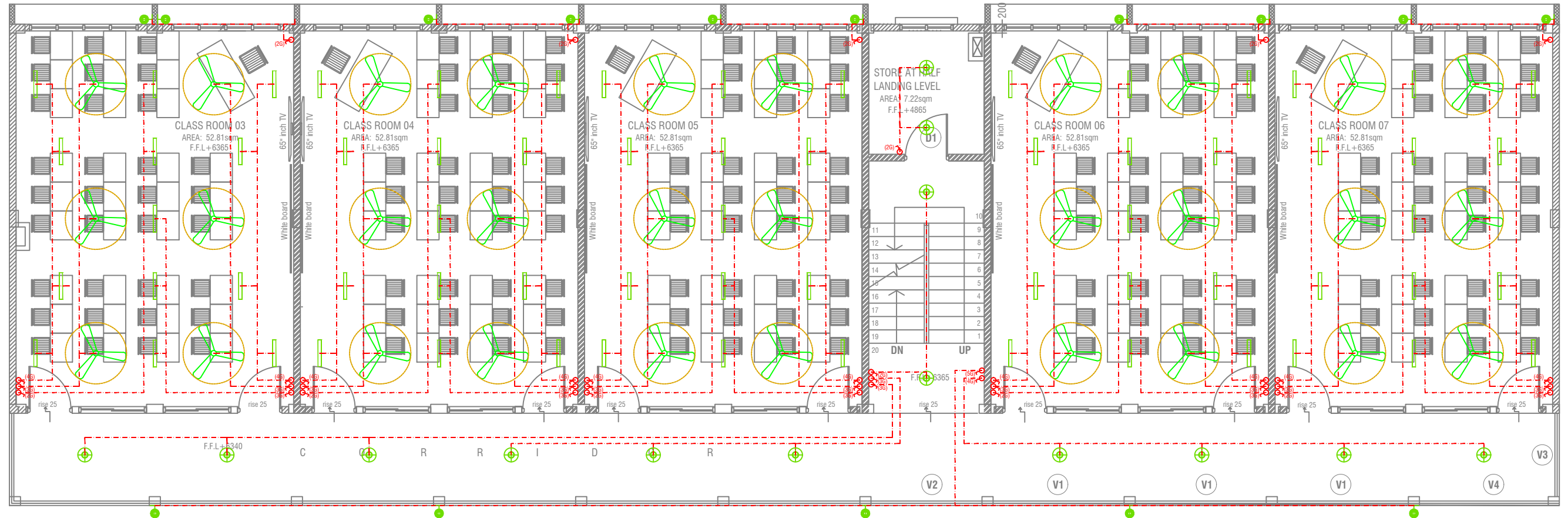
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SECOND FLOOR LIGHTING LAYOUT

SCALE 1:100



LEGEND

- WPD 40W (IP 65) OUT DOOR WALL LIGHT
- ML MIRROR LIGHT (7W LED LIGHT)
- H2 LED RECESSED DOWN LIGHT 12W
- CL LED CEILING LIGHT 18W
- SL 600x600mm LED PANEL 25W
- WP LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
- C2 LED CEILING DOWN LIGHT (18W)
- LIGHT SWITCH
- SWITCHING LINE
- EXHAUST FAN (CEILING MOUNTED)
- FLEX OUTLET

CL2 LED TUBE LIGHT WITH OPAL CASING



CEILING FAN (52" - 54")

NOTE:

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- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
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- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

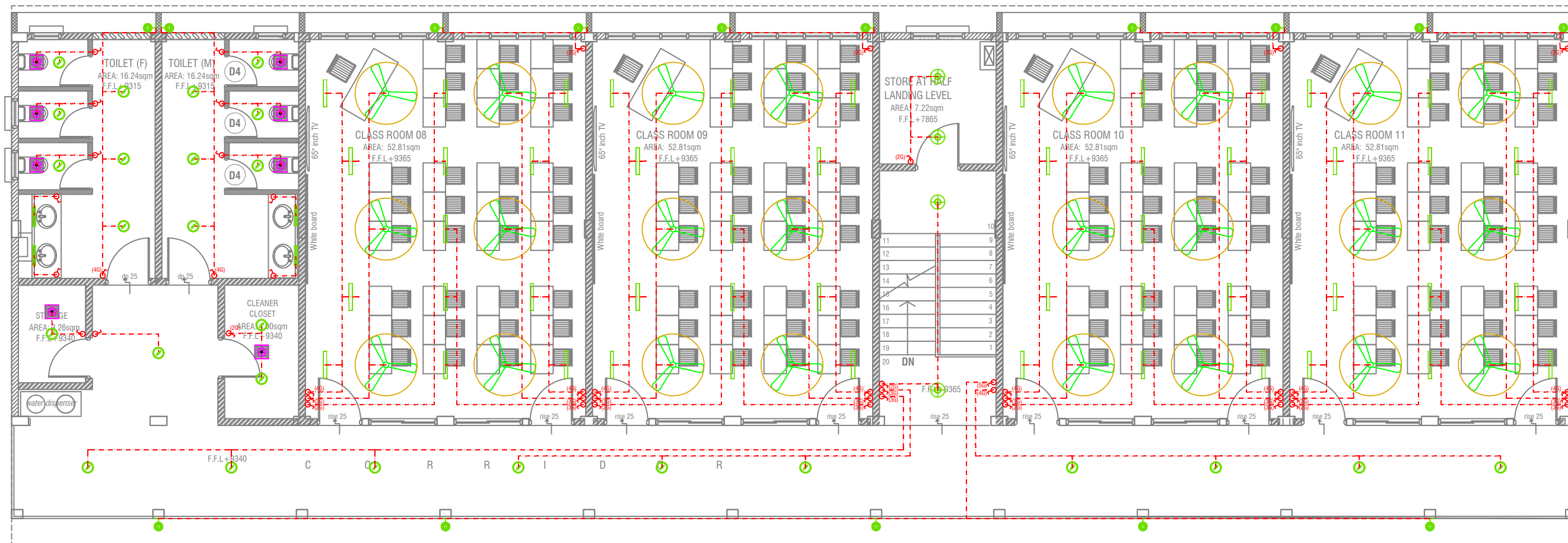
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LEGEND

- WPD 40W (IP 65) OUT DOOR WALL LIGHT
- ML MIRROR LIGHT (7W LED LIGHT)
- H2 LED RECESSED DOWN LIGHT 12W
- CL LED CEILING LIGHT 18W
- SL 600x600mm LED PANEL 25W
- WP LED TUBE LIGHT WITH WEATHER PROOF OPAL CASING
- C2 LED CEILING DOWN LIGHT (18W)
- LIGHT SWITCH
- SWITCHING LINE
- EXHAUST FAN (CEILING MOUNTED)
- FLEX OUTLET

CL2 LED TUBE LIGHT WITH OPAL CASING



CEILING FAN (52" - 54")

NOTE:

- ALL WIRING TO BE OF STELCO APPROVED STANDARDS
- SWITCH CONTROL = 1200MM FROM FLOOR FIN. LEVEL
- ALL LIGHTING POINTS CONNECTED TO THEIR RESPECTIVE DB
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED AT THE OUTDOORS

THIRD FLOOR LIGHTING LAYOUT

SCALE 1:100



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
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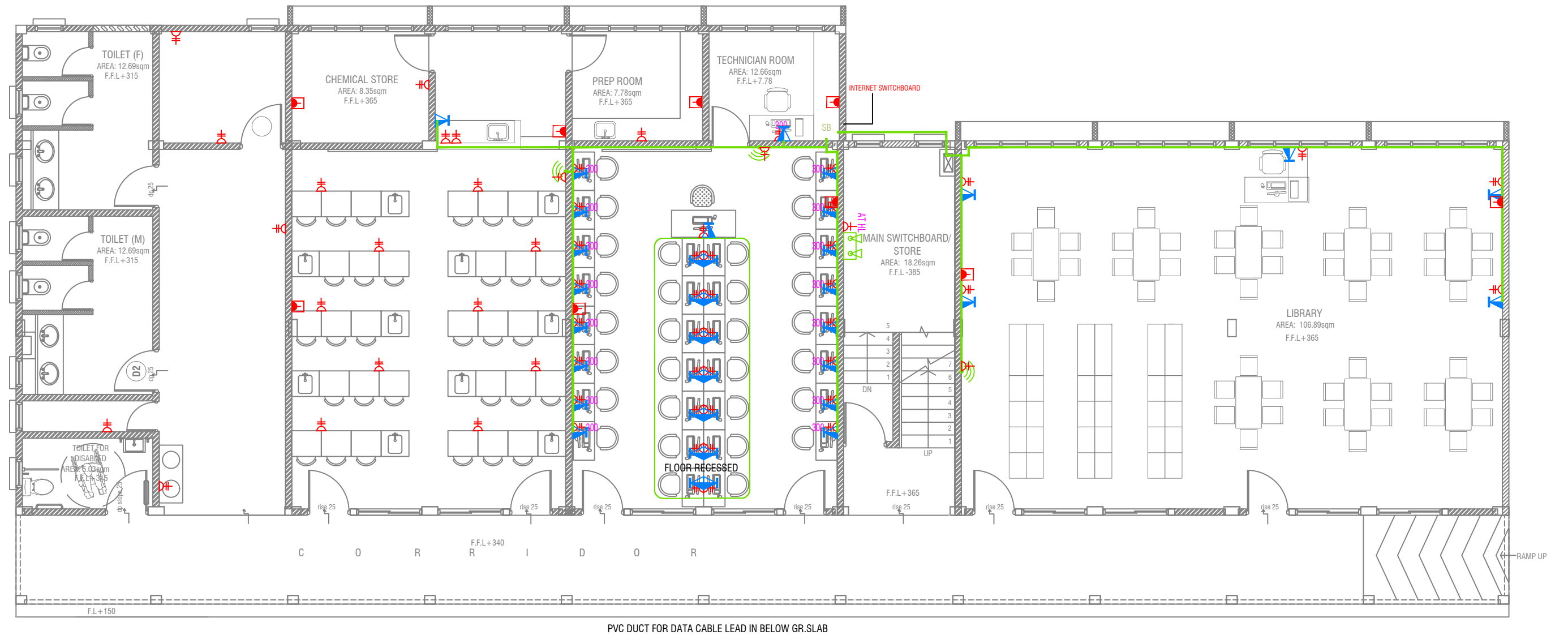
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NOTE:

1. ALL WIRING TO BE OF APPROVED STANDARDS
2. ALL THE POWER AND NETWORK SOCKET SHOWN ON FLOOR SHALL BE FIXED ON FLOOR BOXES OR POP UP SOCKET WHEN IT REQUIRE
3. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
4. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
5. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
6. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

LEGEND

- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER OUTLET
- 13A TWIN SOCKET OUTLET
- HDMI, VGA & RAC AV SOCKET
- DISTRIBUTION BOX
- SPEAKERS
- HDMI, VGA & RAC AV TWIN SOCKET
- TWIN COMPUTER NETWORK OUTLET
- DATA POINT (@ 2.5M)
- TWO GANG / TV SOCKET
- 15A.SWITCHED/ SPUR UNIT @ H.L.

- PAGING MIC
- VOLUME CONTROLLER
- EMERGENCY LIGHT

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 (LOCATED AT MAIN SWITCH BOARD / STORE)

GROUND FLOOR POWER LAYOUT

SCALE 1:100



V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
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NOTE:

1. ALL WIRING TO BE OF APPROVED STANDARDS
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6. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

LEGEND

- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER OUTLET
- 13A TWIN SOCKET OUTLET
- HDMI, VGA & RAC AV SOCKET
- DISTRIBUTION BOX
- SPEAKERS
- HDMI, VGA & RAC AV TWIN SOCKET
- TWIN COMPUTER NETWORK OUTLET
- DATA POINT (@ 2.5M)
- TWO GANG / TV SOCKET
- 15A SWITCHED/ SPUR UNIT @ H.L.

- PAGING MIC
- VOLUME CONTROLLER
- EMERGENCY LIGHT

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 (LOCATED AT MAIN SWITCH BOARD / STORE)

FIRST FLOOR POWER LAYOUT

SCALE 1:100



V. Keyodhoo School - 11 Classroom, Staff room, Computer and Science lab (04 Storey)
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SECOND FLOOR POWER LAYOUT

SCALE 1:100



NOTE:

1. ALL WIRING TO BE OF APPROVED STANDARDS
2. ALL THE POWER AND NETWORK SOCKET SHOWN ON FLOOR SHALL BE FIXED ON FLOOR BOXES OR POP UP SOCKET WHEN IT REQUIRE
3. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
4. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
5. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
6. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

LEGEND

- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER OUTLET
- 13A TWIN SOCKET OUTLET
- HDMI,VGA & RAC AV SOCKET
- DISTRIBUTION BOX
- SPEAKERS
- HDMI,VGA & RAC AV TWIN SOCKET
- TWIN COMPUTER NETWORK OUTLET
- DATA POINT (@ 2.5M)
- TWO GANG / TV SOCKET
- 15A.SWITCHED/ SPUR UNIT @ H.L.

- PAGING MIC
- VOLUME CONTROLLER
- EM EMERGENCY LIGHT

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 (LOCATED AT MAIN SWITCH BOARD / STORE)



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Date: 23 August 2023
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Engineer :
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Services :
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THIRD FLOOR POWER LAYOUT

SCALE 1:100



NOTE:

1. ALL WIRING TO BE OF APPROVED STANDARDS
2. ALL THE POWER AND NETWORK SOCKET SHOWN ON FLOOR SHALL BE FIXED ON FLOOR BOXES OR POP UP SOCKET WHEN IT REQUIRE
3. POWER/IT/COMPUTER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
4. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
5. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
6. AC = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

LEGEND

- TELEPHONE OUTLET (RJ11, CONNECTOR)
- 13A POWER OUTLET
- 13A TWIN SOCKET OUTLET
- HDMI,VGA & RAC AV SOCKET
- DISTRIBUTION BOX
- SPEAKERS
- HDMI,VGA & RAC AV TWIN SOCKET
- TWIN COMPUTER NETWORK OUTLET
- DATA POINT (@ 2.5M)
- TWO GANG / TV SOCKET
- 15A.SWITCHED/ SPUR UNIT @ H.L.

- PAGING MIC
- VOLUME CONTROLLER
- EMERGENCY LIGHT

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 (LOCATED AT MAIN SWITCH BOARD / STORE)



PHYSICAL FACILITIES
DEVELOPMENT SECTION
MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

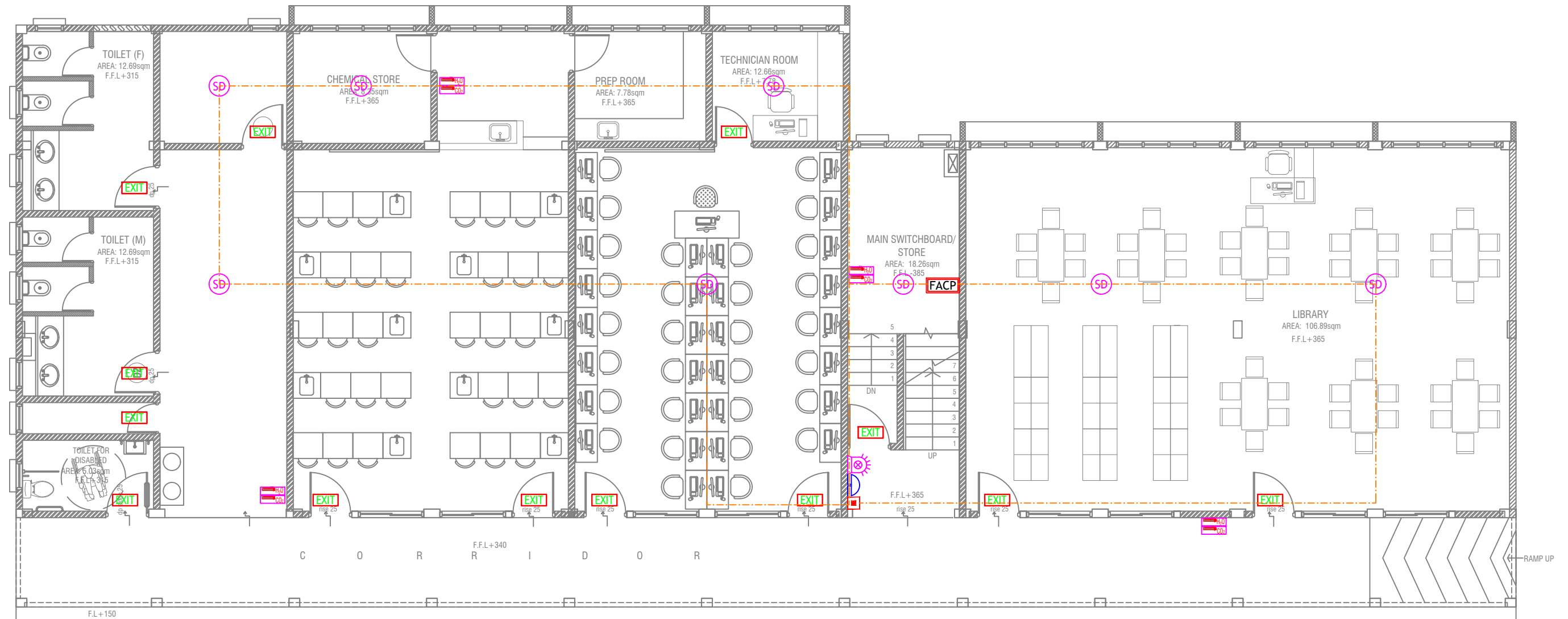
V. Keyodhoo School - 11Classroom, Staff room, Computer and Science lab (04 Storey)
Client: Ministry of Education

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LEGEND

-  EXIT SIGN
-  CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE (TYP.)
-  H₂O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE (TYP.)
-  CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point
-  Smoke Detector
-  Beacon
-  Sounder Bell
-  2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits running through screed
-  2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits running at ceiling level
-  Fire Alarm Control Panel

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













GROUND FLOOR FDP LAYOUT

SCALE 1:100





LEGEND

-  EXIT SIGN
-  CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
-  H₂O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)
-  CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
-  H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
-  Manual Call Point
-  Smoke Detector
-  Beacon
-  Sounder Bell
-  2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits running through screed
-  2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits running at ceiling level
-  Fire Alarm Control Panel

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/BRACKET 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

FIRST FLOOR FDP LAYOUT

SCALE 1:100



PHYSICAL FACILITIES
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MINISTRY OF EDUCATION
REPUBLIC OF MALDIVES

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LEGEND

- EXIT SIGN
- CO₂ EXTINGUISHER (LOAD: 2KG) IN POLYCARBONATE ENCLOSURE(TYP.)
- H₂O EXTINGUISHER (LOAD: 9L) IN POLYCARBONATE ENCLOSURE(TYP.)
- CO₂ Extinguisher (load: 2kg) In Polycarbonate Enclosure
- H₂O Extinguisher (load: 9L) In Polycarbonate Enclosure
- Manual Call Point
- Smoke Detector
- Beacon
- Sounder Bell
- 2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits running through screed
- 2.5mm² Fire Retardant Low Smoke (FRLS) Cables In FRLS Conduits running at ceiling level
- Fire Alarm Control Panel

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/BRAKET 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

SECOND FLOOR FDP LAYOUT

SCALE 1:100



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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 100/MM 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

THIRD FLOOR FDP LAYOUT

SCALE 1:100



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FIRST FLOOR ACV LAYOUT

SCALE 1:100



LEGEND

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



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