B.EYDHAFUSHI HOSPITAL

SERVICES PLOT _ WASTE MANAGEMENT BLOCK

CLIENT: MINISTRY OF HEALTH

DETAILED ARCHITECTURAL & STRUCTURAL DRAWINGS

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

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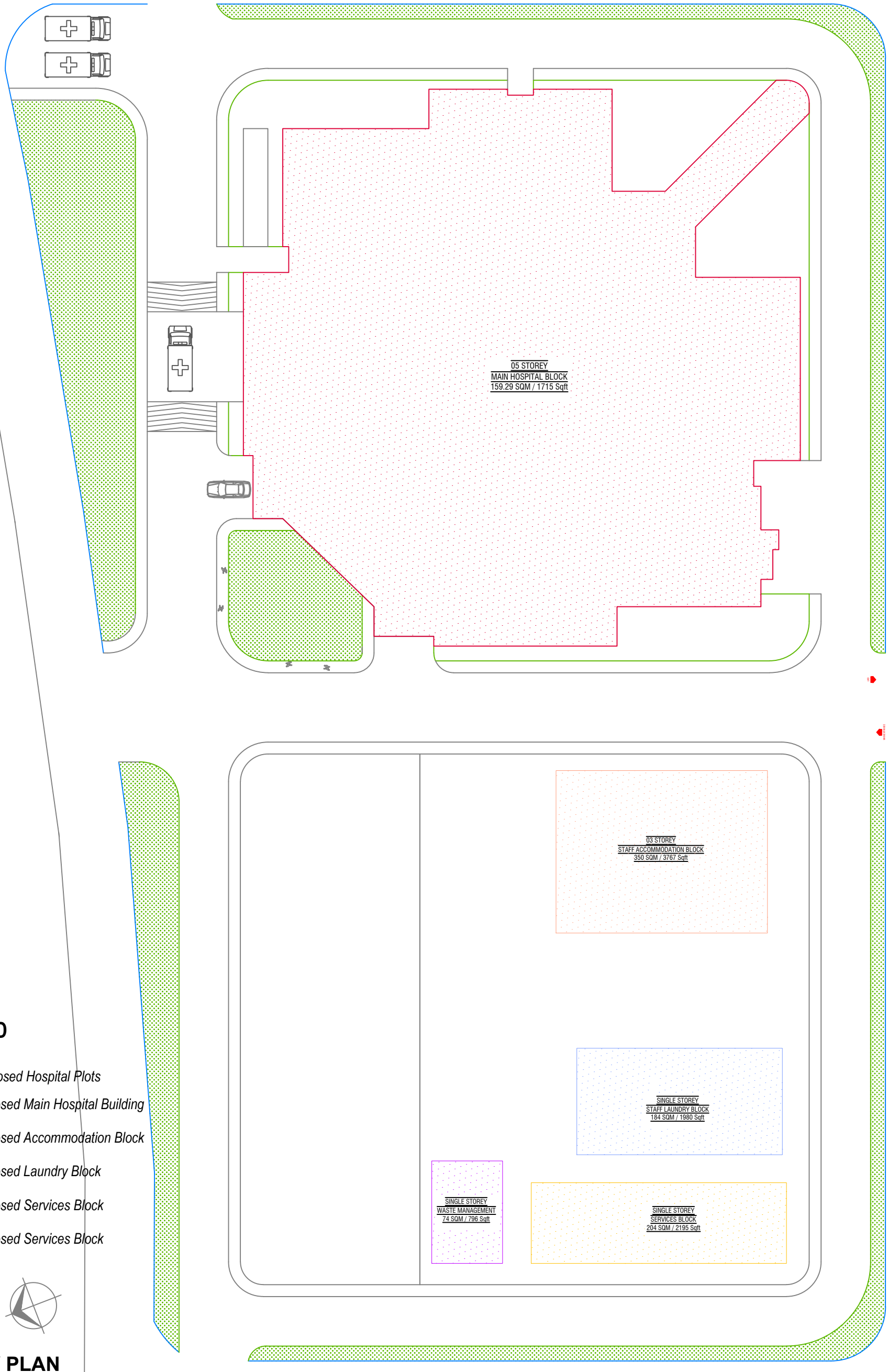

LEGEND

- Proposed Hospital Plots
- Proposed Main Hospital Building
- Proposed Accommodation Block
- Proposed Laundry Block
- Proposed Services Block
- Proposed Services Block

N

KEY PLAN
NOT TO SCALE

B.Eydhafushi Hospital - Waste Management Block
Client: Ministry of Health

Project Number: R21110MOH-BE
Date: June 2022
Architect : Mariyam Irasha Shareef
Engineer : Zainal Abidheen Ali Rasheed
Drawn by : Zunabath Abdul Majid
Services :
Interior : -

Rev no	Date
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Title: Key Plan

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5 M W I D E R O A D

R2300
[R7'-7"]

R2800
[R9'-2"]

48484
[159'-1"]

PARKING AREA

15818
[51'-11"]

15318
[50'-3"]

53584
[175'-10"]

R O A D

5 M W I D E R O A D

7 M W I D E R O A D

SINGLE STOREY
WASTE MANAGEMENT
74 SQM / 796 Sqft

7150
[23'-5"]

2145
[7"]

10350
[33'-11"]

2886
[9'-6"]

8150
[26'-9"]

	ACCOMMODATION BLOCK	LAUNDRY BLOCK	SERVICES BLOCK	WASTE MANAGEMENT BLOCK
TOTAL PLOT AREA	2103 SQM | 22,637 SQFT			
FOOTPRINT AREA	350 SQM | 3767 SQFT	223 SQM | 2400 SQFT	210 SQM | 2260 SQFT	74 SQM | 796 SQFT
OPEN AREA	1246 SQM | 13412 SQFT			
TOTAL BUILT UP AREA	857 SQM | 9225 SQFT			

16400
[53'-10"]

10750
[35'-3"]

11636
[38'-2"]

37006
[121'-5"]

SINGLE STOREY
SERVICES BLOCK
210 SQM / 2260 Sqft

25774
[84'-7"]

SINGLE STOREY
STAFF LAUNDRY BLOCK
223 SQM / 2400 Sqft

20750
[68'-1"]

21351
[70'-1"]

03 STOREY
STAFF ACCOMMODATION BLOCK
350 SQM / 3767 Sqft

36596
[119'-9"]

1678
[5'-6"]

2145
[7"]

2825
[9'-3"]

2192
[7'-2"]

2710
[8'-11"]

48484
[159'-1"]

4210
[13'-10"]

R2300
[R7'-7"]

R2800
[R9'-2"]

5 M W I D E R O A D

LEGEND

- Proposed Hospital Plots
- Proposed Main Hospital Building
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- Proposed Services Block

LOCATION PLAN

SCALE 1:150

0 0.5 1

N

B.Eydhafushi Hospital - Waste Management Block
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Architect : Mariyam Ivadha Shareef
Engineer : Zainal Abdheen Ali Rasheed
Drawn by : Zunabath Abdul Majid
Services :
Interior :

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Title: Location Plan

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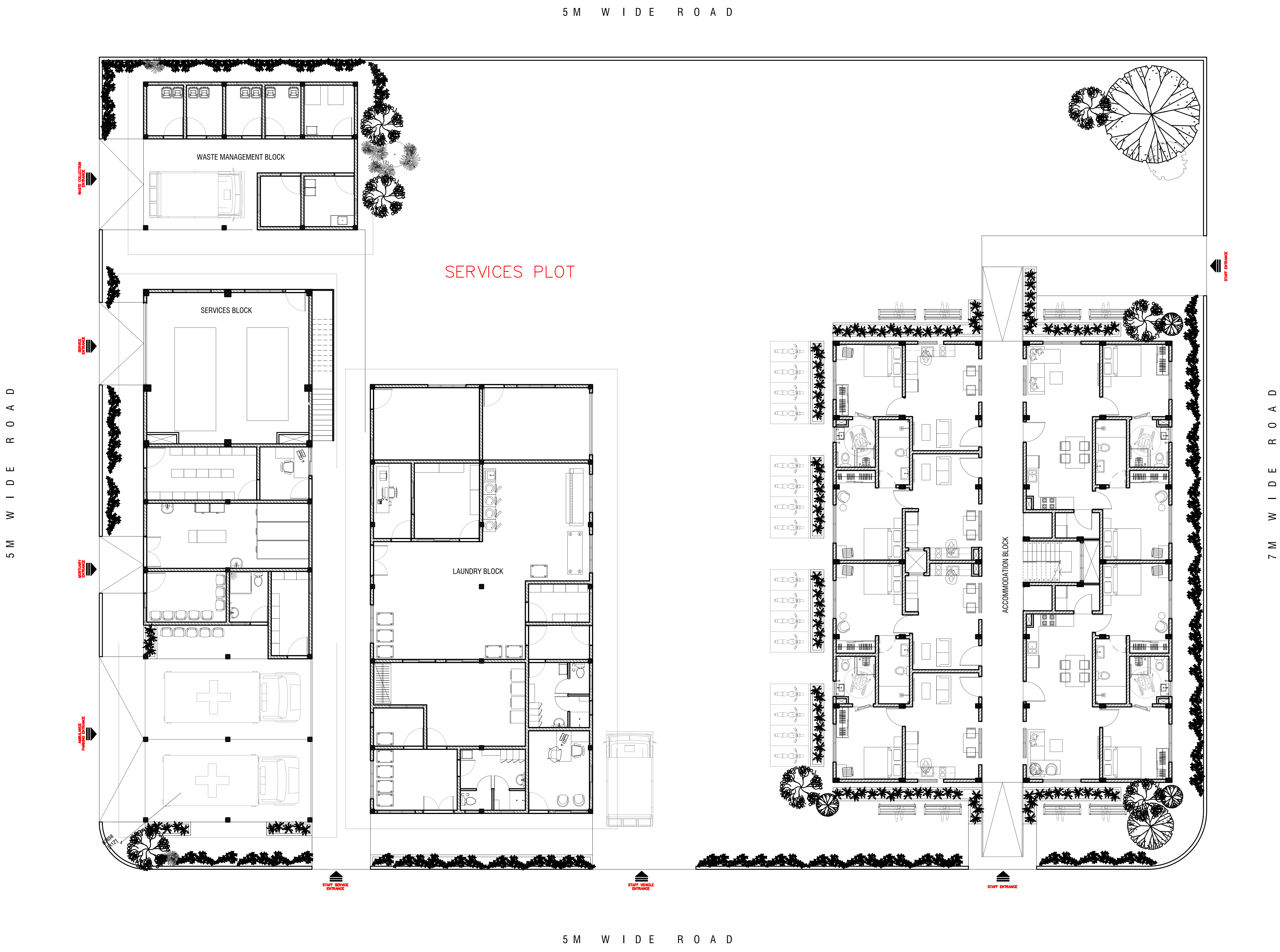

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SERVICES PLOT
SITE PLAN
SCALE 1:150

B.Eydhafushi Hospital - Waste Management Block
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Title: Site Plan

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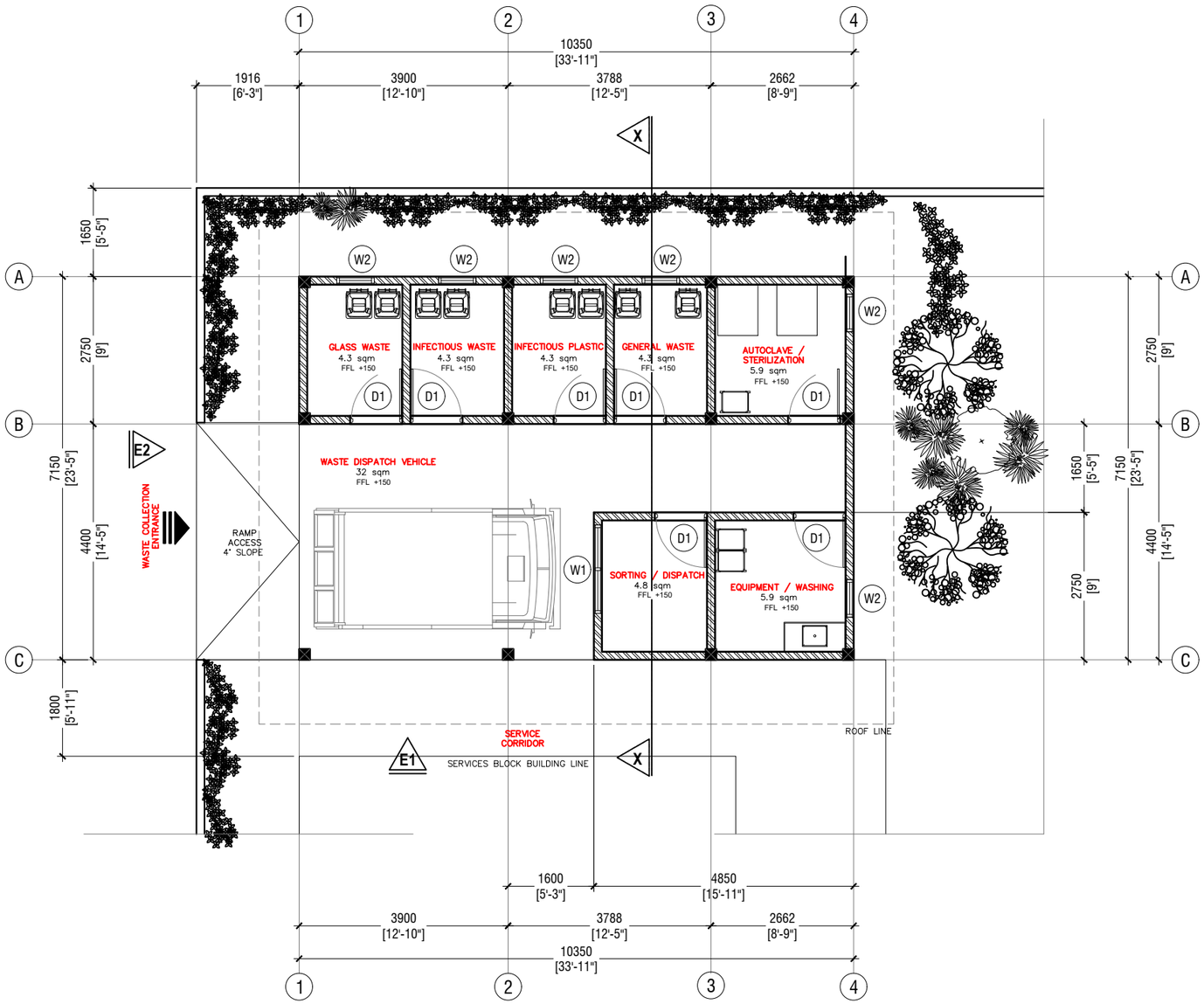

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WASTE MANAGEMENT BLOCK GROUND FLOOR PLAN

SCALE 1:100

0 0.5 1 2 3 4 5

NOTES:

150mm THICK SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING WATER-PROOF WITH PLASTOCRETE, GROUND SMOOTH IN MATTE EMULSION WHITE PAINT FINISH UPTO BEAM/SLAB

150mm THICK 1000mm HIGH SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING WATER-PROOF WITH PLASTOCRETE, GROUND SMOOTH IN MATTE EMULSION WHITE PAINT FINISH

B.Eydhafushi Hospital - Waste Management Block
Client: Ministry of Health

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-	----------
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Title: Ground Floor Plan

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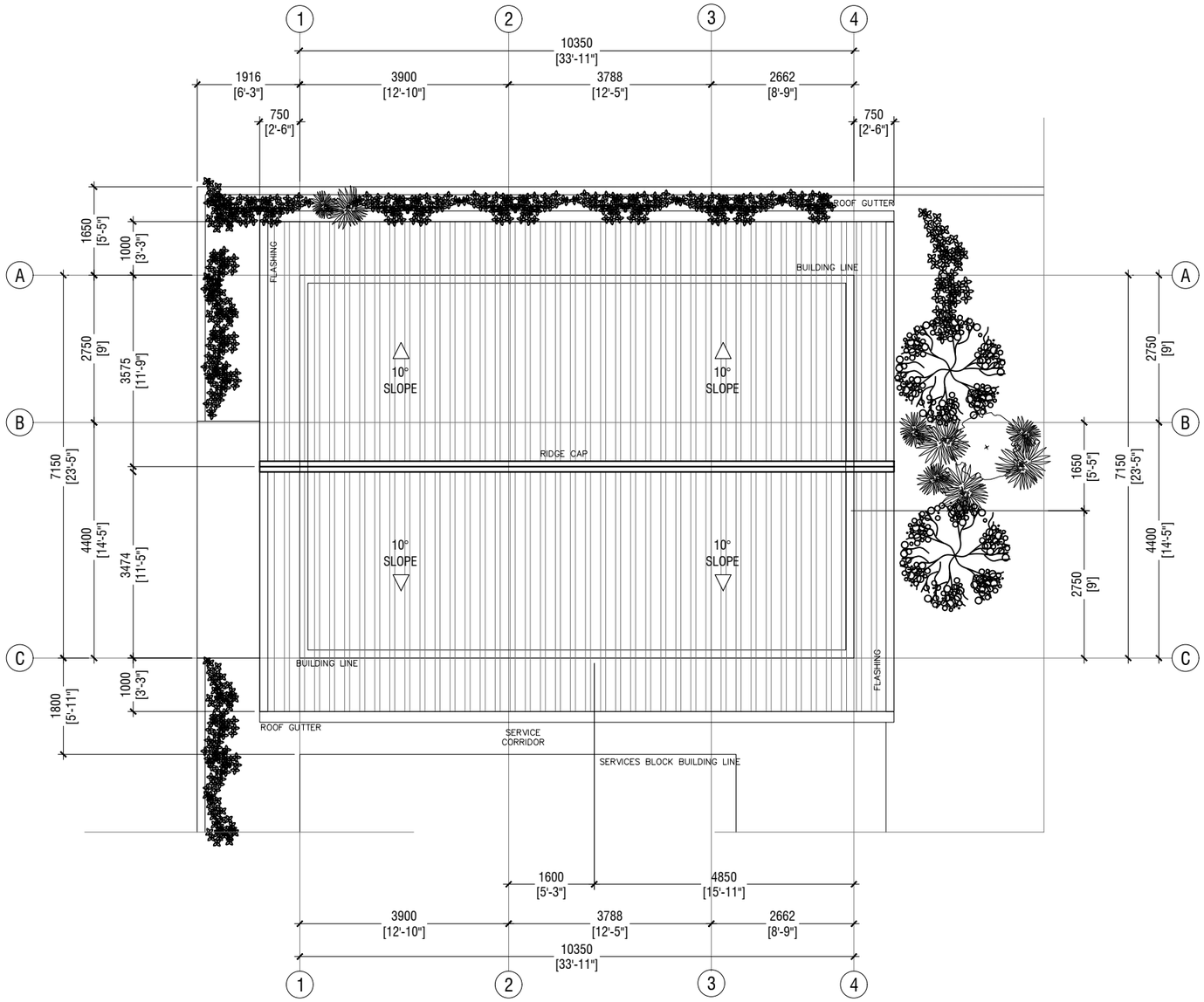

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WASTE MANAGEMENT BLOCK
ROOF PLAN

SCALE 1:100

0 0.5 1 2 3 4 5

NOTE:

ROOF SLOPE IS 10 DEGREES TO THE HORIZONTAL
ROOF FABRIC IS LYSAGHT ROOFING SHEETS
POLYCARBONATE ROOFING SHEET OVER SERVICE CORRIDOR

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Interior : -

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Title: Roof Plan

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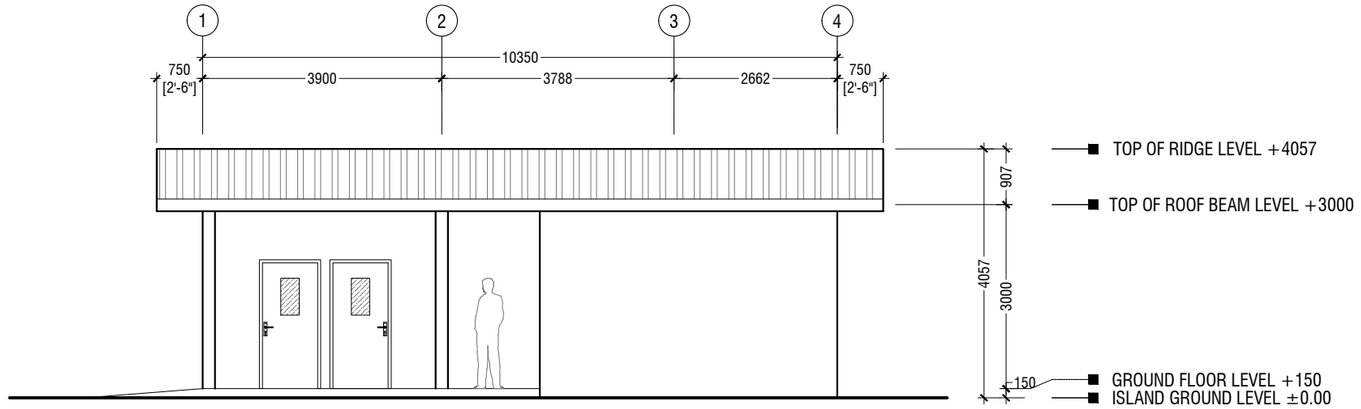
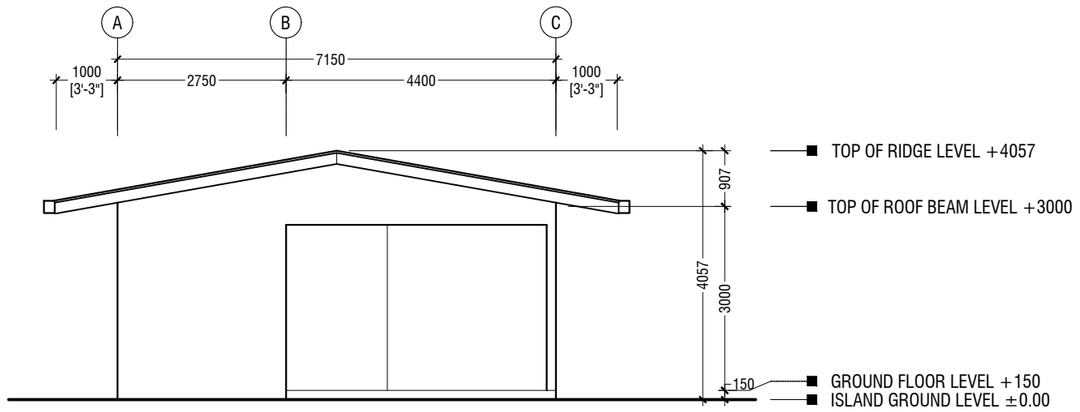


ELEVATION-E1

SCALE 1:100

0 0.5 1 2 3 4 5



ELEVATION-E2

SCALE 1:100

0 0.5 1 2 3 4 5

WASTE MANAGEMENT BLOCK ELEVATIONS

SCALE 1:100

0 0.5 1 2 3 4 5

B.Eydhafushi Hospital - Waste Management Block
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Title: Elevations

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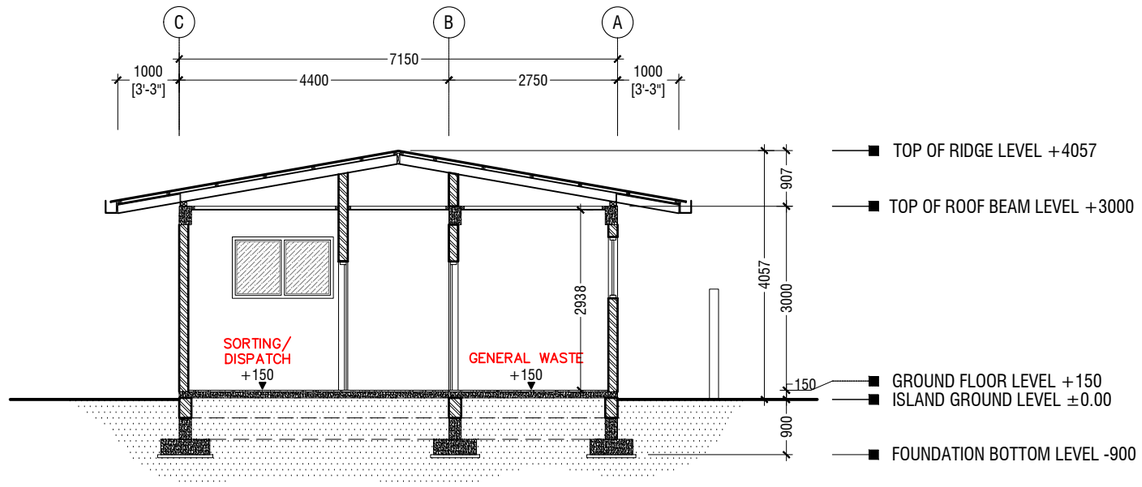

SECTION X-X

SCALE 1:100

0 0.5 1 2 3 4 5

WASTE MANAGEMENT BLOCK SECTIONS

SCALE 1:100

0 0.5 1 2 3 4 5

B.Eydhafushi Hospital - Waste Management Block
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Title: Section

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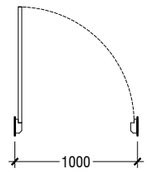
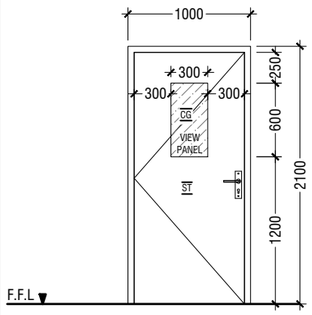
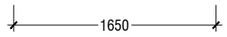
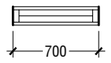
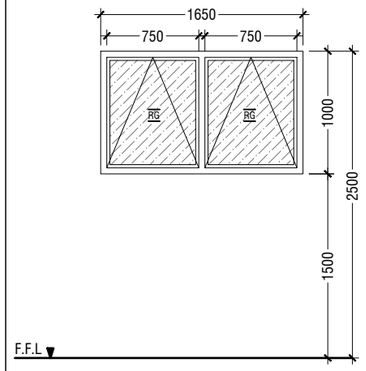
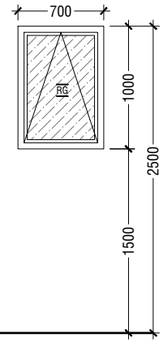
ELEMENT ID	D1 - SOLID TIMBER DOOR WITH VIEW PANEL (SINGLE SWING)
QUANTITY	07
W x H SIZE	1000 x 2100
SILL HEIGHT	00
LINTEL HEIGHT	2100
2D SYMBOL	
ELEVATION	
FIRE RESTISTANCE RATING	20 MINUTES
LOCATION	WASTE MANAGEMENT BLOCK
AREA	1.845 SQM
REMARKS	FRAME: TIMBER FRAME DEPTH TO BE WIDTH OF THE WALL PANEL: 32mm THICK SOLID TIMBER DOOR PANEL WITH PVC VENEER SHEET FACING. 6mm THICK TEMPERED CLEAR GLASS VIEW PANEL.
HARDWARE	HINGE : 4"X3"X3mm THK. BUTT HINGE, SS FINISH (8pcs) LOCKSET : EURO PROFILE DEAD LOCK WITH TURN & KEY CYLINDER & ESCUTCHEON, DOOR HANDLE LEVER TYPE. DOOR CLOSER FOR BIGGER PANEL, DOOR STOPPER.

ELEMENT ID	W1 - TOP HUNG WINDOW	W2 - TOP HUNG WINDOW
QUANTITY	01	06
W x H SIZE	1650 x 1000	1000 x 1000
SILL HEIGHT	1500	1500
LINTEL HEIGHT	2500	2500
2D SYMBOL		
ELEVATION		
FIRE RESTISTANCE RATING	20 MINUTES	20 MINUTES
LOCATION	WASTE MANAGEMENT BLOCK	WASTE MANAGEMENT BLOCK
AREA	1.35 SQM	0.54 SQM
REMARKS	POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH 6mm THICK REFLECTIVE GLASS	POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH 6mm THICK REFLECTIVE GLASS
HARDWARE	FLUSH HANDLE	FLUSH HANDLE

WASTE MANAGEMENT BLOCK
DOOR & WINDOW SCHEDULE

SCALE 1:50

0 0.25 0.5 1 1.5 2 2.5

LEGEND:
MP - MARINE PLYWOOD
P - PLYWOOD
ST - SOLID TIMBER
LST - LEAD LINED SOLID TIMBER
SS - STAINLESS STEEL
AL - ALUMINIUM
TG - TEMPERED GLASS
CG - CLEAR GLASS
RG - REFLECTED GLASS
FG - FROSTED GLASS
PVC - POLYVINYL CHLORIDE
LV - ALUMINIUM LOUVERS

NOTE:-
- 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.
- FOR ALL DOOR & WINDOWS ON EXTERIOR FACADE SHALL BE DOUBLE GLAZED.

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Title: Door/Window Schedule

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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 120 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)
FOOTINGS	50
TIE BEAMS	50
COLUMN	40
BEAM	35
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	25 N/mm2
COLUMN, BEAM AND SLAB	25 N/mm2
EXTERNAL WORK	
PAVEMENTS	25 N/mm2
ALL OTHERS (CULVERT, DRAINS, MANHOLE, ETC)	25 N/mm2
FOUNDATION	
PILECAP, FOOTING, RAFT TIE-BEAM, CAPPING BEAM	25 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	460 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 :

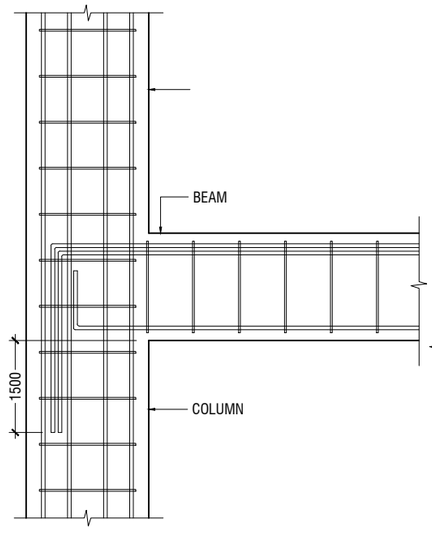
SLAB THICKNESS (mm)	MIN. DISTRIBUTION BAR
250 OR LESS	T10-300
GREATER THAN 250 BUT LESS THAN OR EQUAL TO 300	T10-200
GREATER THAN 300 BUT LESS THAN OR EQUAL TO 400	T10-150

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.



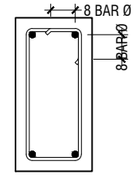
BEAM TO COLUMN CONNECTION

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.

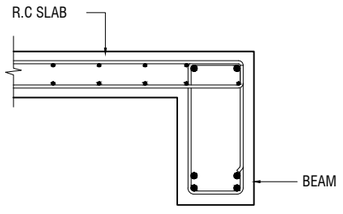
18.0 SPACER BARS

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

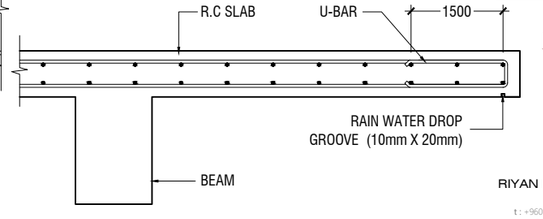


Ø = DIA OF LINK

SHEAR LINKS ANCHORAGE DETAIL



SLAB-BEAM ANCHORAGE DETAIL



CANTILEVERED SLAB EDGE DETAIL

B.Eydhafushi Hospital - Waste Management Block
Client: Ministry of Health

Rev no	Date
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Project Number: R21110MOH-BE
Date: June 2022
Architect : Mariyam Irasha Shareef
Engineer : Zainal Abdulkeen Ali Rasfeed
Drawn by : Zunaidath Abdul Majid
Services : -
Interior : -

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Title: General Notes

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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

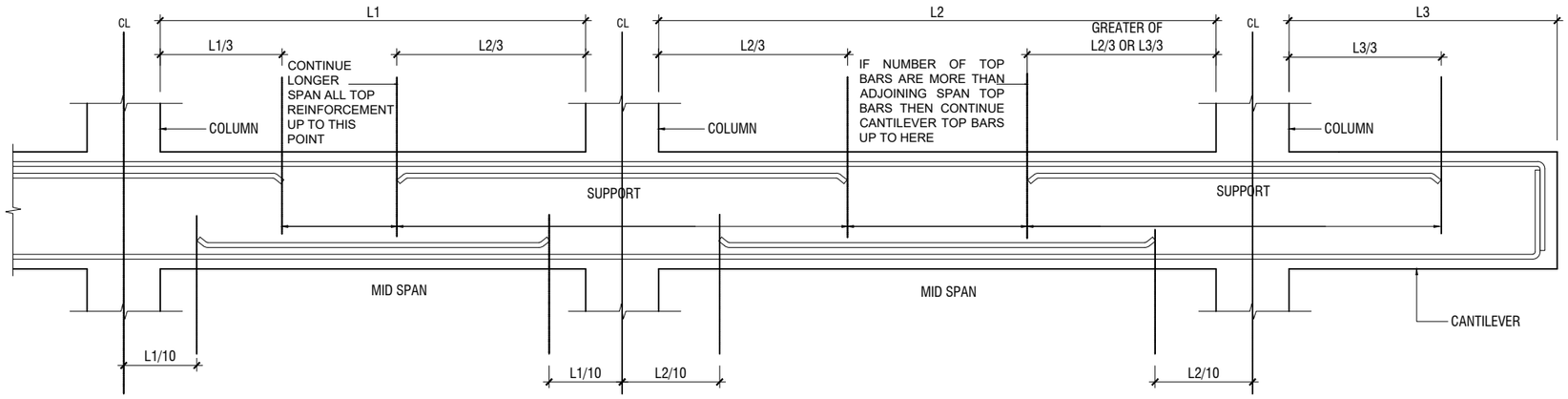
3. NON-SHRINK, NON-METALLIC GROUT WITH A 28 DAY STRENGTH OF 35MPa SHALL BE USED UNDER BASE PLATES AND SHALL CONFORM TO BS EN 12390-3 AND EN 196-1. MASTERFLOW 542 OR EQUIVALENT MAYBE USED.

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.

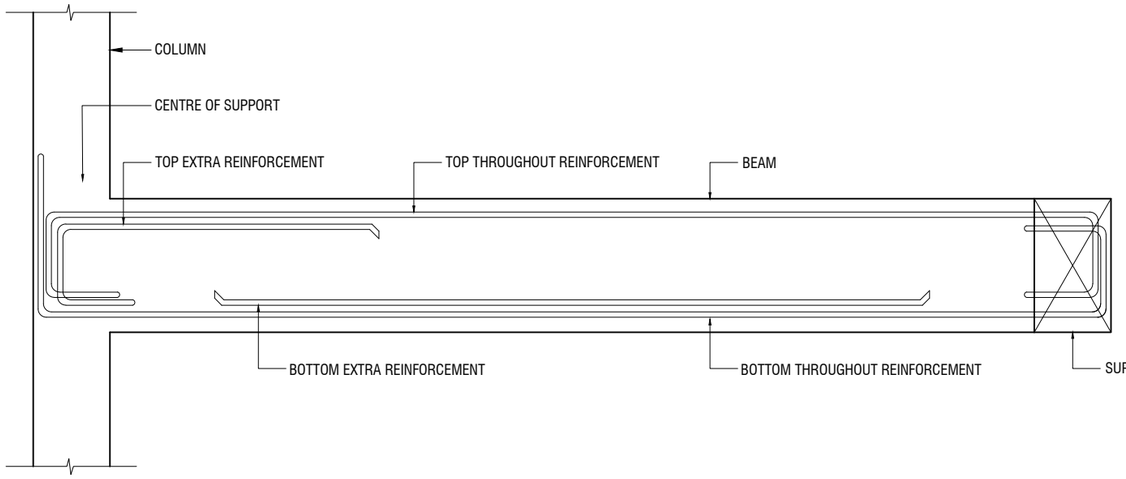
2. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCING WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED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

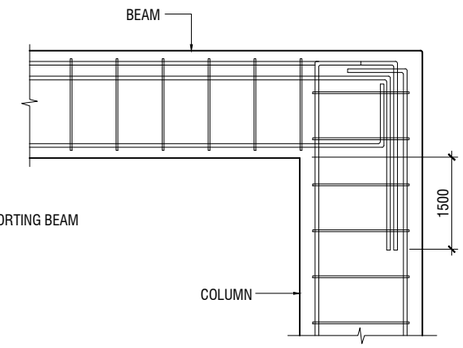


L1 = SHORTER SPAN
L2 = LONGER SPAN
L3 = CANTILEVER LENGTH

SIMPLIFIED DETAILING RULES FOR BEAMS (BS8110-1)



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 REFEREED TO IN RELEVANT BS CODES OR SHALL BE APPROVED BY CLIENT'S ENGINEER

B.Eydhafushi Hospital - Waste Management Block
Client: Ministry of Health

Rev no	Date
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Project Number: R21110MOH-BE
Date: June 2022
Architect : Mariyam Irasha Shareef
Engineer : Zainal Abdheen Ali Rasheed
Drawn by : Zunabath Abdul Majid
Services :
Interior : -

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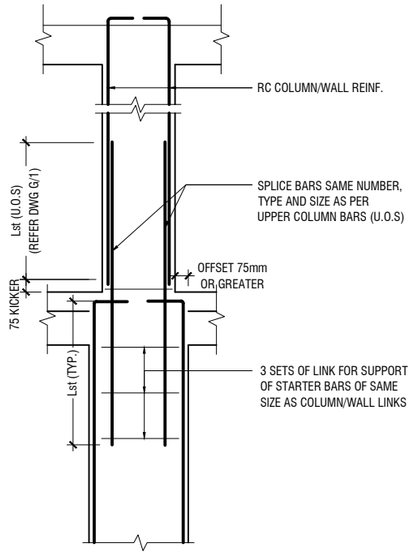
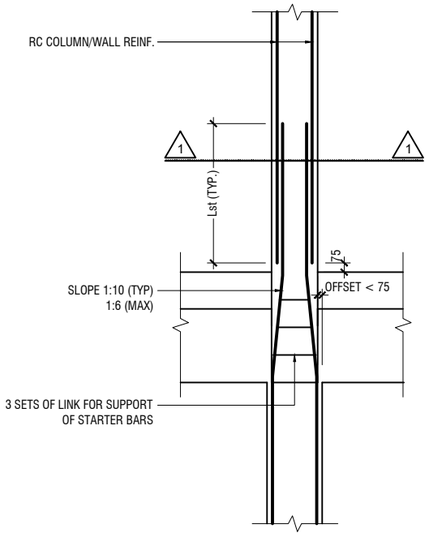
Title: General Notes

Page: S-02 / 09



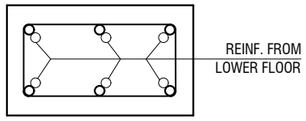
A) FOR COLUMN OFFSET > 75mm

TO BE VERIFIED BY THE CONSULTING ENGINEER

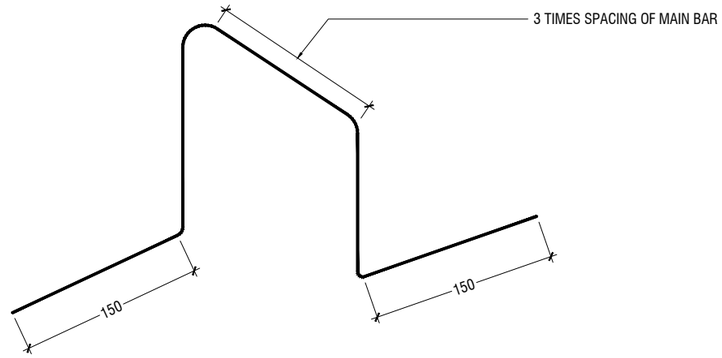


B) FOR COLUMN OFFSET < 75mm

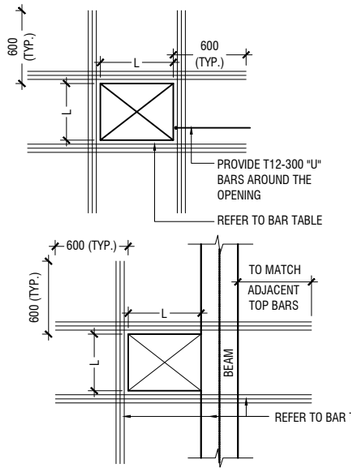
COLUMN/WALL REINF. LAPPING DETAIL AT FLOOR LEVEL



SECTION-1-1



TYPICAL CHAIR DETAIL

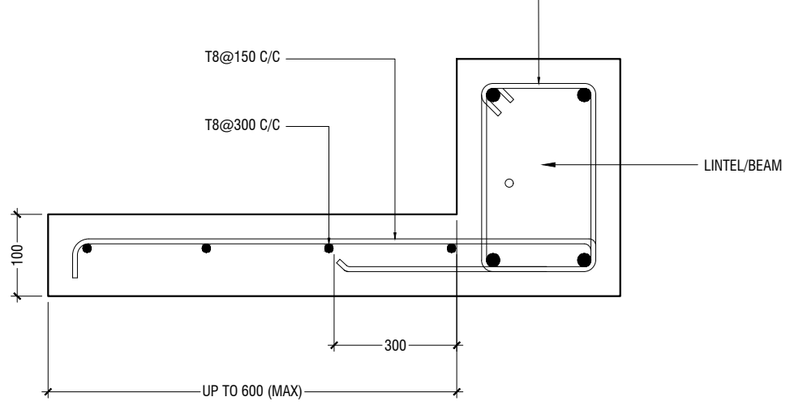


FLOOR OPENING (L)	ADD BARS
LESS THAN 250	3T12 T & B
L = > 250 < 500	3T16 T & B
L = ⩾ 500 < 1000	3T16 T & B

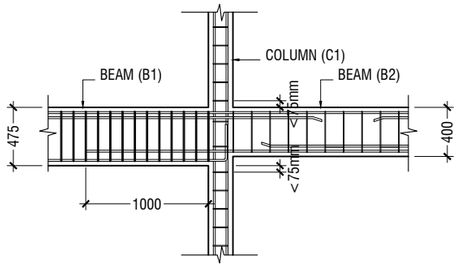
NOTE:-

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.

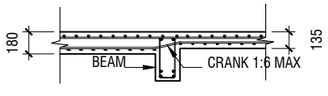
TYPICAL TRIMMER BARS DETAILS FOR OPENING IN SLABS



TYPICAL CANTILEVER DETAILS



B1 TO B2 CONNECTION DETAILS



SLAB THICKNES REDUCTION DETAIL

B.Eydhafushi Hospital - Waste Management Block
Client: Ministry of Health

Rev no	Date
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Project Number: R21110MOH-BE
Date: June 2022
Architect : Mariyam Irasha Shareef
Engineer : Zainal Abdhleen Ali Rasheed
Drawn by : Zunabath Abdul Majid
Services :
Interior : -

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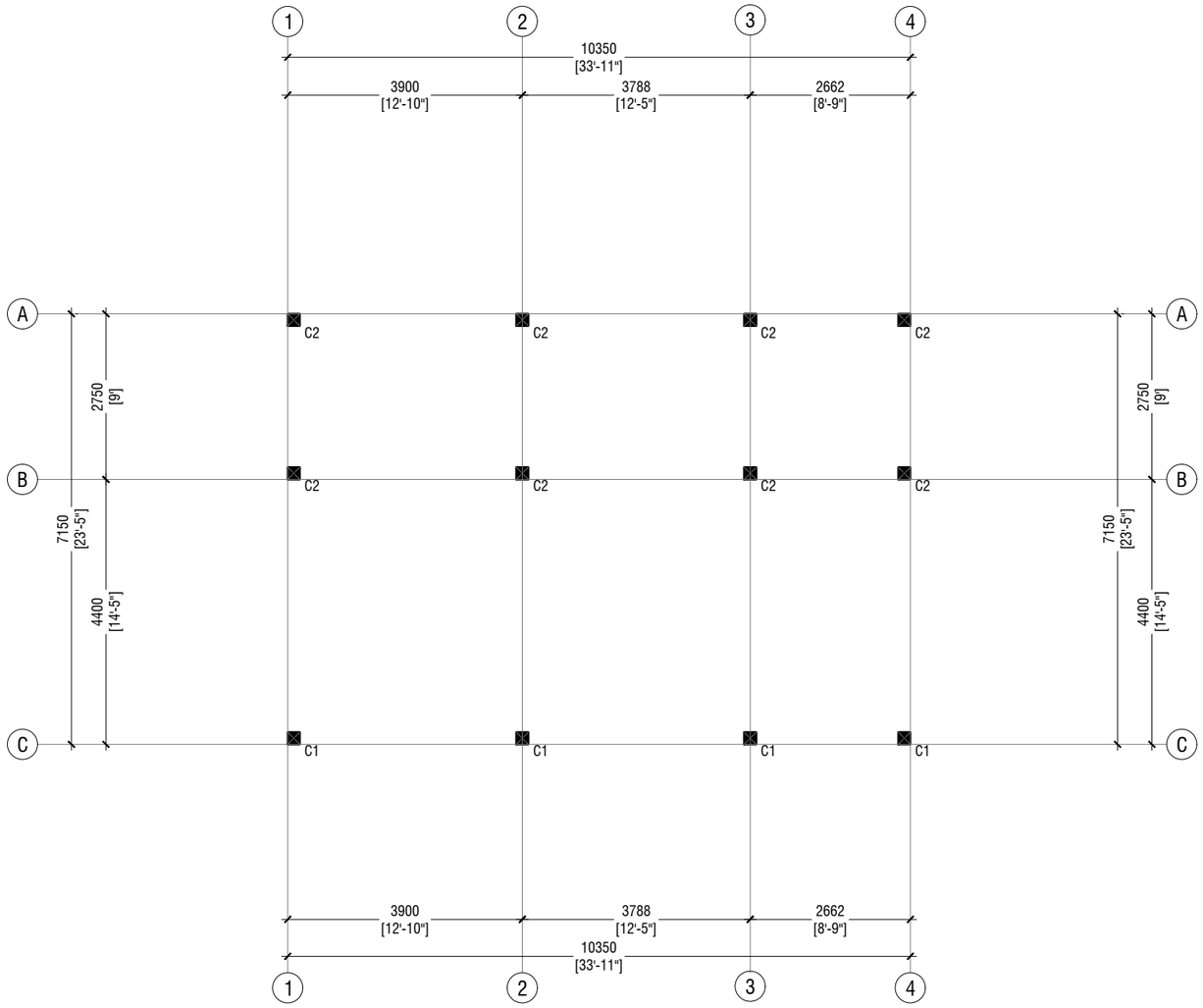
Title: General Notes

Page: S-03 / 09



WASTE MANAGEMENT BLOCK
COLUMN LAYOUT PLAN

SCALE 1:100

0 0.5 1 2 3 4 5

NOTE:

COLUMN SIZES

C1	: 200 x 200 mm
C2	: 200 x 200 mm
COVER	: 40mm

B.Eydhafushi Hospital - Waste Management Block
Client: Ministry of Health

Rev no	Date
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Project Number: R21110MOH-BE
Date: June 2022
Architect : Mariyam Iracha Shareef
Engineer : Zainal Abdheen Ali Rasheed
Drawn by : Zunabath Abdul Majid
Services : -
Interior : -

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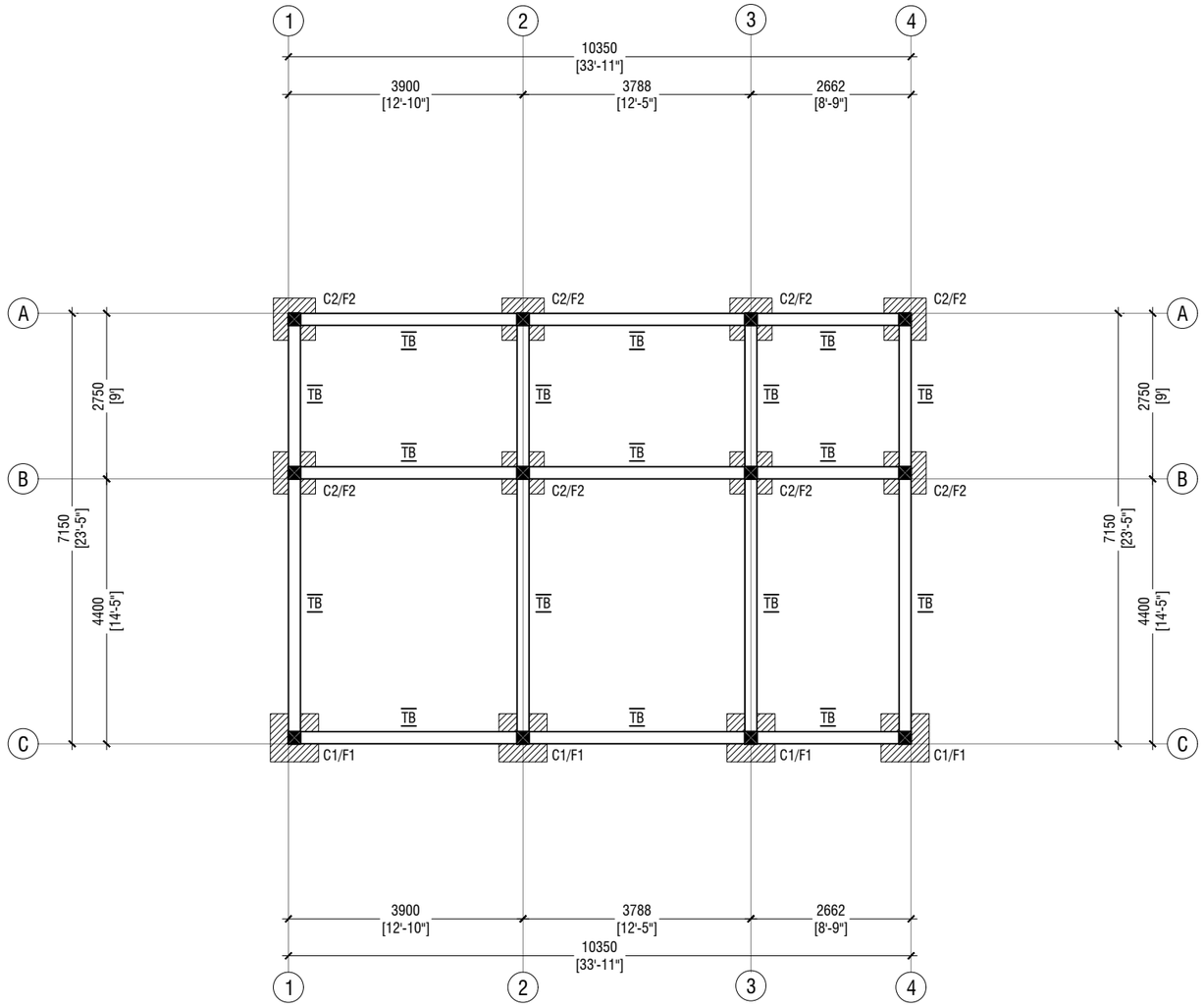
Title: Column Layout Plan

Page: S-04 / 09



NOTE:

COLUMN SIZES

C1	: 200 x 200 mm
C2	: 200 x 200 mm
COVER	: 40mm

FOUNDATION PAD SIZES

	DIMENSION	REINFORCEMENT
F1	800 x 800 x 250	T12@150 C/C BW (BOTTOM ONLY)
F2	700 x 700 x 250	T12@150 C/C BW (BOTTOM ONLY)

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 GENERAL NOTES

FOUNDATION DEPTH : 900mm BELOW GROUND LEVEL

ALL FOOTINGS ARE TO BE LAID ON TOP OF 50mm THICK LEAN CONCRETE

TIE BEAM SIZES

TB	: 200 x 350 mm
COVER	: 50mm

GROUND SLAB : 100mm THK RC SLAB ON FILL
REINFORCED WITH R6@150 C/C BW
SINGLE LAYER

WASTE MANAGEMENT BLOCK
FOUNDATION LAYOUT PLAN

SCALE 1:100

0 0.5 1 2 3 4 5

B.Eydhafushi Hospital - Waste Management Block
Client: Ministry of Health

Rev no	Date
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Project Number: R21110MOH-BE
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Architect : Mariyam Irasha Shareef
Engineer : Zainal Abidheen Ali Rasheed
Drawn by : Zunabath Abdul Majid
Services :
Interior : -

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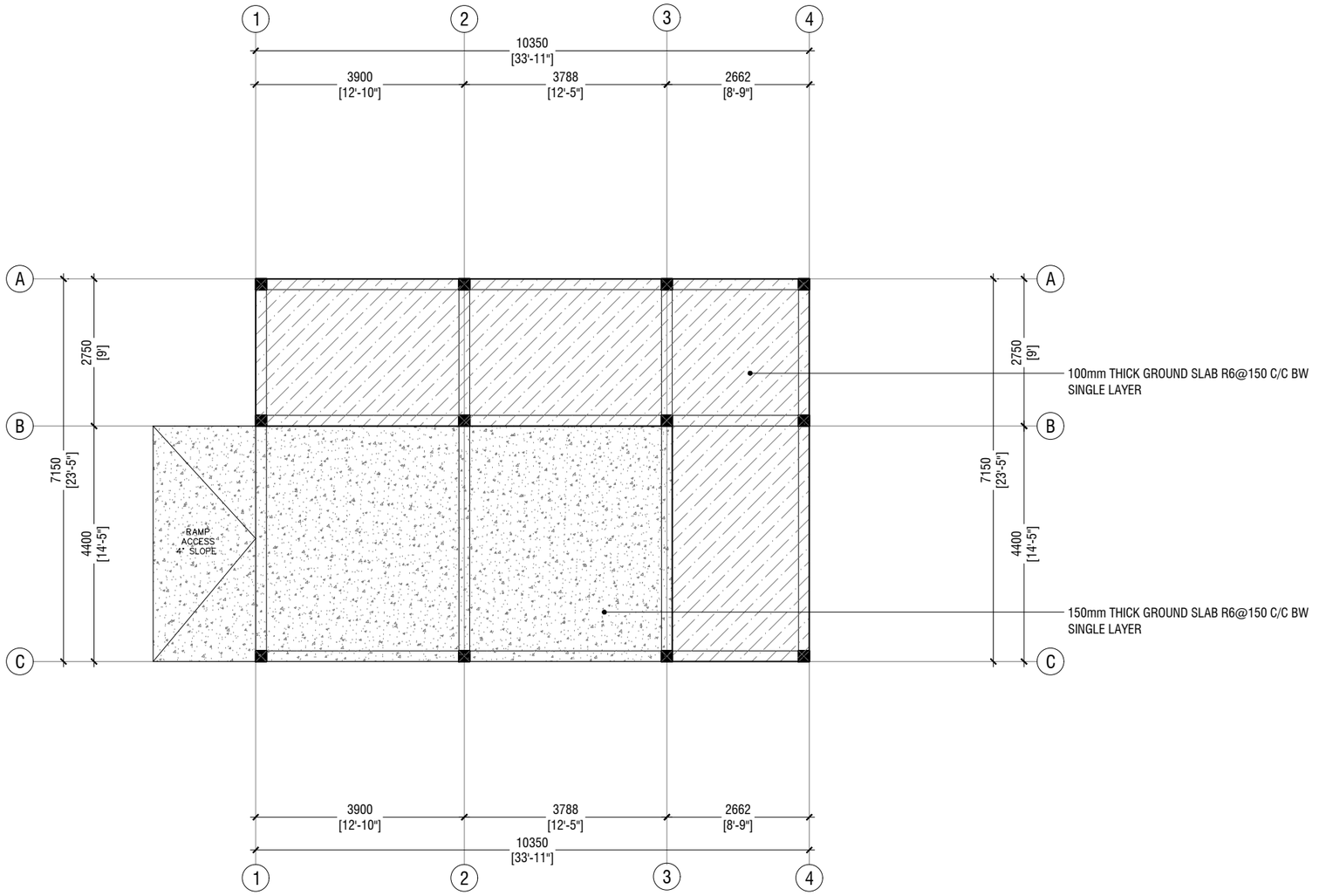
Title: Foundation Plan

Page: S-05 / 09



NOTES

100mm THICK GROUND SLAB R6@150 C/C BW SINGLE LAYER

150mm THICK GROUND SLAB R6@150 C/C BW SINGLE LAYER

WASTE MANAGEMENT BLOCK
GROUND SLAB PLAN

SCALE 1:100

0 0.5 1 2 3 4 5

B.Eydhafushi Hospital - Waste Management Block
Client: Ministry of Health

Rev no	Date
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Project Number: R21110MOH-BE
Date: June 2022
Architect : Mariyam Irasha Shareef
Engineer : Zainal Abidheen Ali Rasheed
Drawn by : Zunabath Abdul Majid
Services : -
Interior : -

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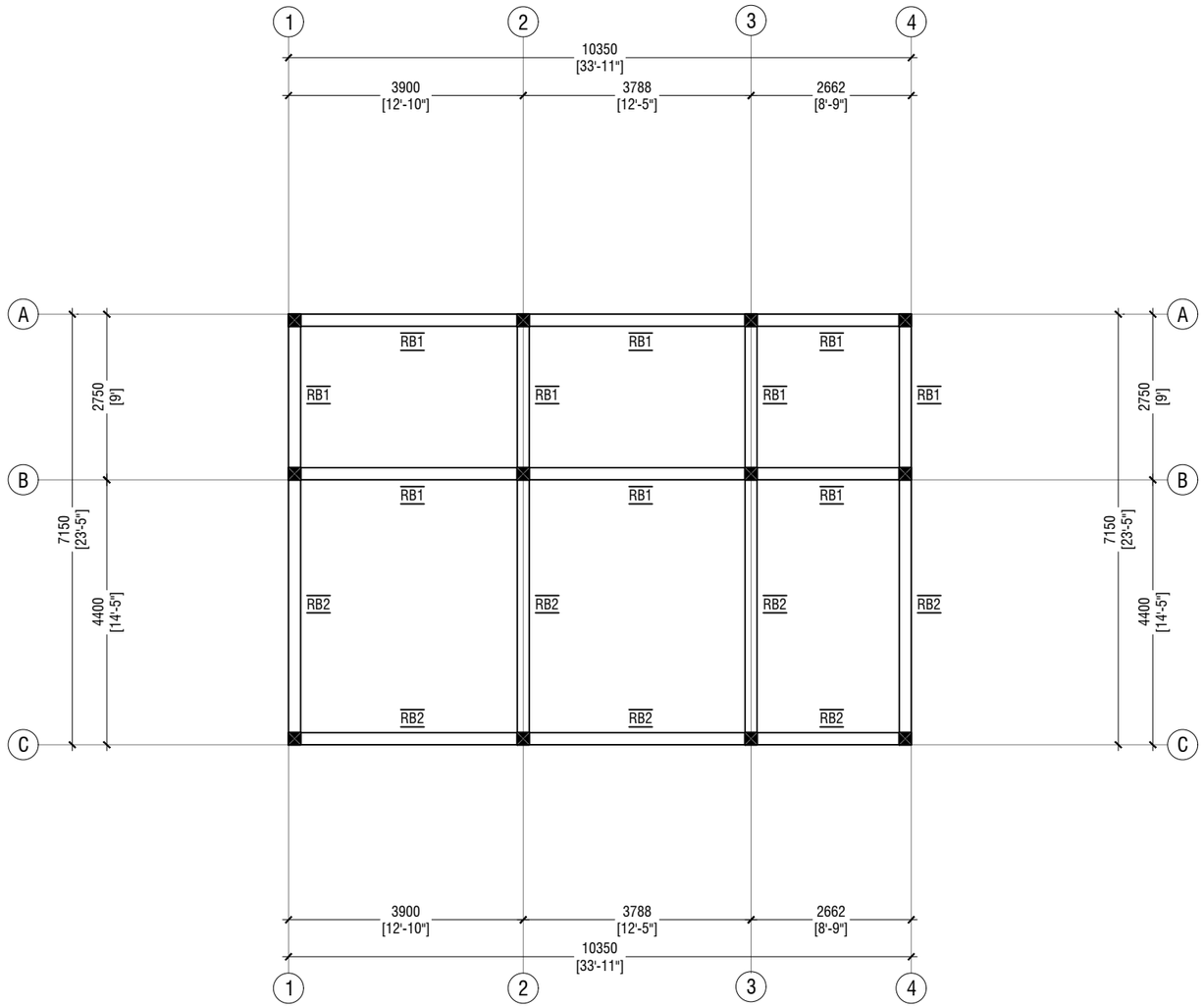
Title: Ground Slab Plan

Page: S-06 / 09



WASTE MANAGEMENT BLOCK
ROOF BEAM PLAN

SCALE 1:100

0 0.5 1 2 3 4 5

NOTE:

BEAM SIZES

RB1	: 200x200 mm
RB2	: 200x200 mm
COVER	: 35mm

B.Eydhafushi Hospital - Waste Management Block
Client: Ministry of Health

Rev no	Date
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Project Number: R21110MOH-BE
Date: June 2022
Architect : Mariyam Irasha Shareef
Engineer : Zainal Abidheen Ali Rasheed
Drawn by : Zunabath Abdul Majid
Services :
Interior : -

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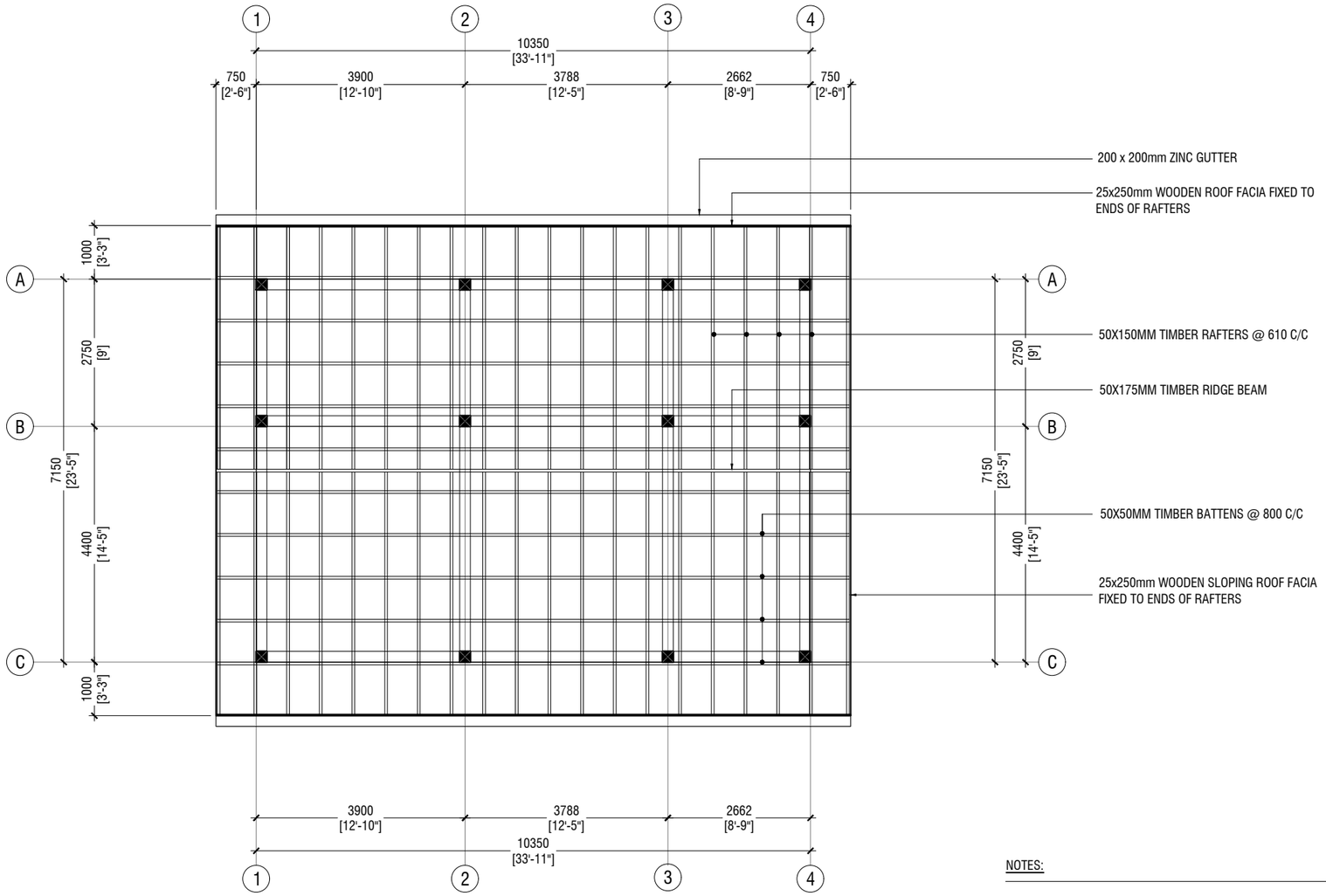
Title: Roof Beam Plan

Page: S-07 / 09



WASTE MANAGEMENT BLOCK
ROOF FRAMING PLAN

SCALE 1:100

0 0.5 1 2 3 4 5

NOTES:

ROOF SLOPE IS 10 DEGREES TO THE HORIZONTAL
ROOF FABRIC IS LYSAGHT ROOFING SHEETS

ROOF STRUCTURE DETAILS :

- 50X175MM TIMBER RIDGE BEAM
- 50X150MM TIMBER RAFTERS @ 610 C/C
- 50X50MM TIMBER BATTENS @ 800 C/C
- 25x250mm WOODEN ROOF FACIA FIXED TO ENDS OF RAFTERS
- 70x100mm WOODEN WALL PLATE BOLTED TO RAFTERS & ROOF BEAM @ 600 CC

B.Eydhafushi Hospital - Waste Management Block
Client: Ministry of Health

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

Title: Roof Framing Plan

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FOUNDATION PAD SIZES

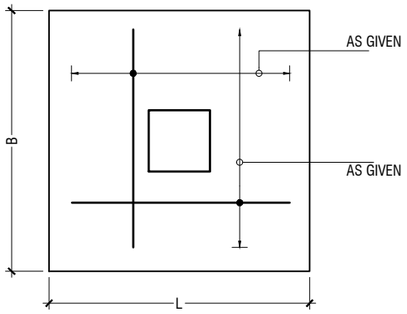
	DIMENSION (LXBXD)	REINFORCEMENT
F1	800 x 800 x 250	T12@150 C/C BW (BOTTOM ONLY)
F2	700 x 700 x 250	T12@150 C/C BW (BOTTOM ONLY)

FOUNDATION DEPTH = 900mm

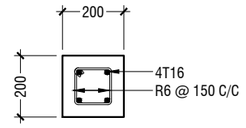
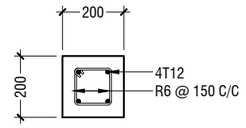
NOTE:-
COVER TO FOUNDATION = 50mm
COVER TO COLUMNS = 40mm
COVER TO BEAMS = 35mm
LAPS = Ø OF BAR x 45
BEAMS @END SUPPORT = Ø OF BAR x 12

CONCRETE GRADE = M25

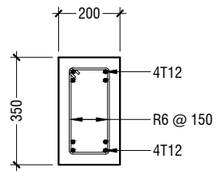
FOUNDATION PADS

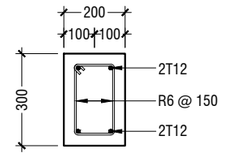
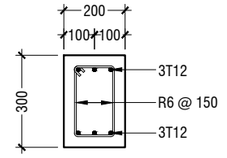


PLAN

	GROUND, 1ST, 2ND & TERRACE FLOOR
C1	
C2	

COLUMN DETAILS

TB	

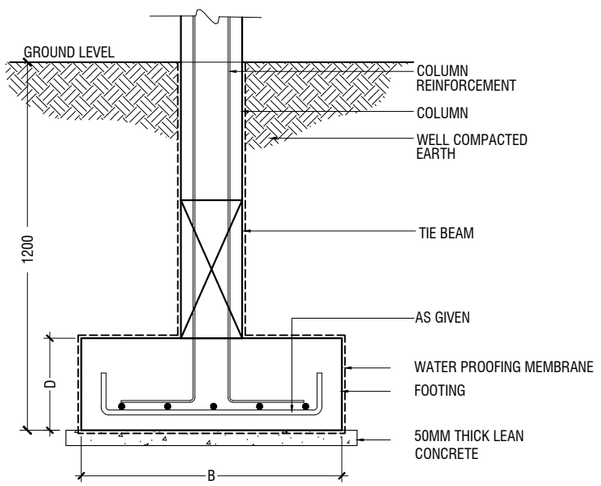
RB1	
RB2	

BEAM DETAIL

WASTE MANAGEMENT BLOCK STRUCTURAL DETAILS

SCALE 1:20

0 0.1 0.2 0.4 0.6 0.8 1



TYPICAL FOOTING SECTION

B.Eydhafushi Hospital - Waste Management Block
Client: Ministry of Health

Rev no	Date
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Project Number: R21110MOH-BE
Date: June 2022
Architect : Mariyam Irasha Shareef
Engineer : Zainal Abidheen Ali Rasheed
Drawn by : Zunabath Abdul Majid
Services :
Interior : -

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w : www.riyan.com.mv
3rd floor, H. Azum, Ameeneemagu, Male'

Title: Structural Details

Page: S-09 / 09

B.EYDHAFUSHI HOSPITAL

SERVICES PLOT _ WASTE MANAGEMENT BLOCK

CLIENT: MINISTRY OF HEALTH

FINISHES LAYOUT

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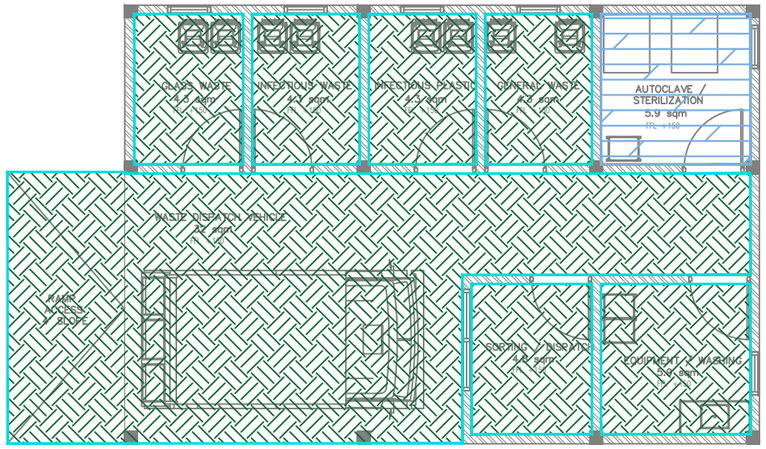

WASTE MANAGEMENT BLOCK
FLOOR FINISHES LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND:

Code	Description	
FF01		1200mmX1200mm Polished Porcelain Floor Tile
FF02		1200mmX1200mm Semi Polished Porcelain Floor Tile
FF03		800mmX800mm Semi Polished Porcelain Floor Tile
FF04		600mmX600mm Matte Ceramic Floor Tile
FF05		600mmX600mm Matte Ceramic Outdoor Floor Tile
FF06		600mmX600mm Matte Ceramic Floor Tile
FF07		300mmX1200mm Matte Ceramic Staircase Floor Tile with grooves
FF08		Homogeneous Vinyl Flooring For Sterile Area - Supplier Should recommend Technical Specification
FF09		Permanently Static Dissipative Pressed Homogeneous Vinyl Flooring For Sterile Area - Supplier Should recommend Technical Specification
FF10		Paver Block
FF11		Gray Epoxy Paint finish over leveling Screed

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B.Eydhafushi Hospital - Waste Management Block
Client: Ministry of Health

Project Number: R21110MOH-BE
Date: June 2022
Architect : Mariyam Irasha Shareef
Engineer : Zainal Abidheen Ali Rasheed
Drawn by : Zunabath Abdul Majid
Services :
Interior : -

Rev no	Date
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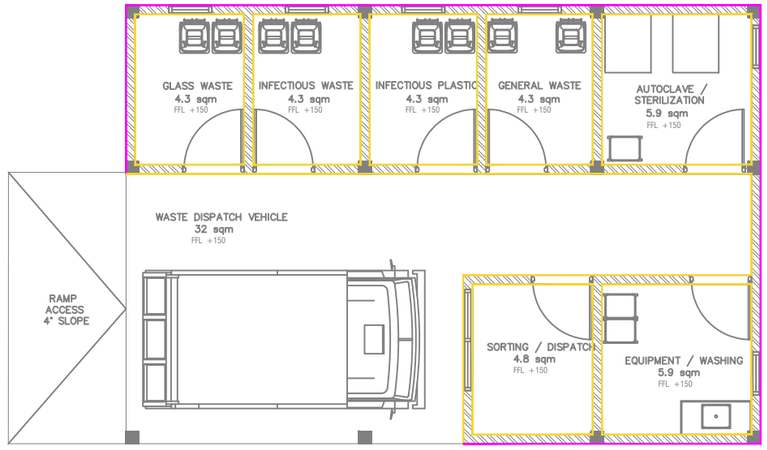
Title: Ground Floor, Floor Finishes Layout
Page: F-01 / 03



LEGEND:

Code	Description	
WF01		Exterior Grade Paint Finish
WF02		Vinyl Wall Covering to 2100mm height with Washable Paint Finish above
WF03		300mmX600mm Matte Homogenous Wall Tile upto ceiling
WF04		Wash and Wear Low Sheen Emulsion Paint
WF05		PVC Hygienic Protective Cladding

WASTE MANAGEMENT BLOCK
WALL FINISHES LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

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B.Eydhafushi Hospital - Waste Management Block
Client: Ministry of Health

Project Number: R21110MOH-BE
Date: June 2022
Architect : Mariyam Irasha Shareef
Engineer : Zainal Abidheen Ali Rasheed
Drawn by : Zunabath Abdul Majid
Services :
Interior : -

Rev no	Date
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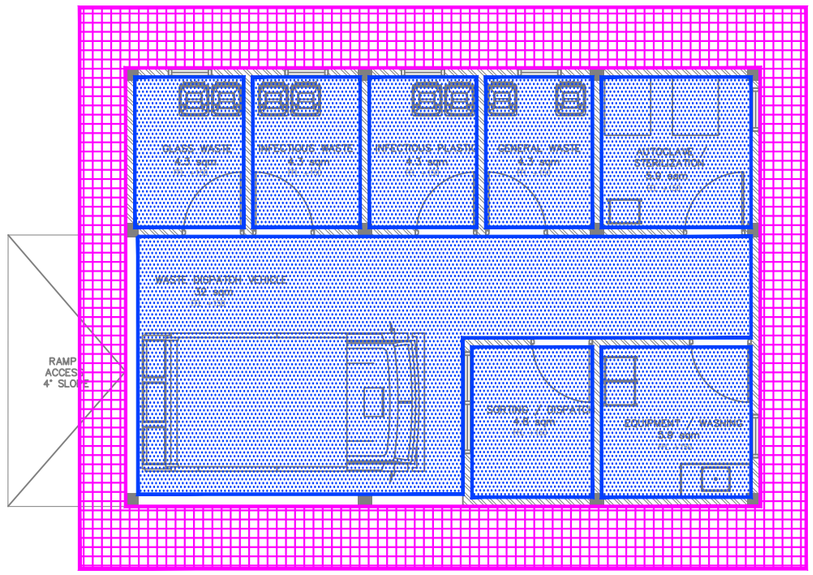
Title: Ground Floor, Wall Finishes Layout
Page: F-02 / 03



LEGEND:

Code	Description	
CF01		FALSE FLAT CEILING WITH 12mm CALCIUM SILICATE BOARD UNDER 50x50mm CEILING JOIST WITH ANTI MICROBIAL PAINT COATINGS
CF02		FALSE FLAT CEILING WITH 12mm THICK GYPSUM BOARD UNDER 50x50mm CEILING JOIST WITH ANTI MICROBIAL PAINT COATING
CF03		FALSE SLOPING CEILING WITH 12mm THICK GYPSUM BOARD UNDER 50x50mm CEILING JOIST WITH ANTI MICROBIAL PAINT COATING
CF04		SMOOTH PUTTY UNDER RC SLAB/BEAM WITH SATIN WHITE PAINT FINISH

WASTE MANAGEMENT BLOCK
CEILING FINISHES LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

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Project Number: R21110MOH-BE
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Architect : Mariyam Irasha Shareef
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Drawn by : Zunabath Abdul Majid
Services :
Interior : -

Rev no	Date
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Title: Ground Floor, Ceiling Finishes Layout

Page: F-03 / 03