

BANDHARU HUT LH. NAIFARU

PROPOSED SINGLE STOREY BUILDING

CLIENT : FANSAVANNA

ARCHITECT : ALI ZAMEER

ENGINEER : AHMED NAFIU

DATE : NOVEMBER 2023

ARCHITECTURAL CHECKER : AHUSAN ABDUL MUHUSIN

STRUCTURAL CHECKER : AHMED HANEEF



anova.mv@gmail.com
757 0070

GENERAL

NO.	DRAWING TITLE	DRAWING NO.
01	DRAWING LIST	G - 1.01

ARCHITECTURAL SERIES

NO.	DRAWING TITLE	DRAWING NO.
02	SITE PLAN	A - 2.01
03	GROUND FLOOR PLAN	A - 2.02
04	ROOF PLAN	A - 2.03
05	ELEVATION - A, ELEVATION - B	A - 3.01
06	SECTION - X	A - 4.01
07	ARCHITECTURAL DETAILS - 1	A - 5.01
08	ARCHITECTURAL DETAILS - 2	A - 5.02
09	ARCHITECTURAL DETAILS - 3	A - 5.03
10	DOOR WINDOW SCHEDULE - 1	A - 6.01
11	DOOR WINDOW SCHEDULE - 2	A - 6.02
12	DOOR WINDOW SCHEDULE - 3	A - 6.03
13	VENTILATION SCHEDULE	A - 6.04

STRUCTURAL SERIES

NO.	DRAWING TITLE	DRAWING NO.
14	GENERAL NOTES	S - 1.01
15	FOUNDATION PLAN	S - 2.01
16	COLUMN LAYOUT	S - 2.02
17	PLINTH BEAM PLAN	S - 2.03
18	ROOF BEAM PLAN	S - 2.04
19	ROOF STRUCTURE PLAN	S - 2.05
20	STRUCTURAL DETAILS - 1	S - 5.01
21	STRUCTURAL DETAILS - 2	S - 5.02
22	FOUNDATION PROTECTION METHOD	S - 5.03
		S - 5.04

NOTE :

G = GENERAL
A = ARCHITECTURAL
S = STRUCTURAL
E = ELECTRICAL
P = PLUMBING
F = FIRE PROTECTION

1 = GENERAL
2 = PLANS
3 = ELEVATIONS
4 = SECTIONS
5 = DETAILS
6 = SCHEDULES

GENERAL NOTES

- Do not scale the drawings.
- All dimensions are in millimeters unless noted otherwise.
- All dimensions are indicative, and must be confirmed at the site by the contractor.



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FULOONIYA GOALHI, MALE',
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CLIENT

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PROJECT NAME

SINGLE STOREY BANDHARU HUT

LOCATION

LH. NAIFARU

DRAWING TITLE

DRAWING LIST

DESIGN STAGE

- CONCEPTUAL DESIGN
 BUILDING APPROVAL
 CONSTRUCTION DRAWINGS
 AS-BUILT DOCUMENTATION

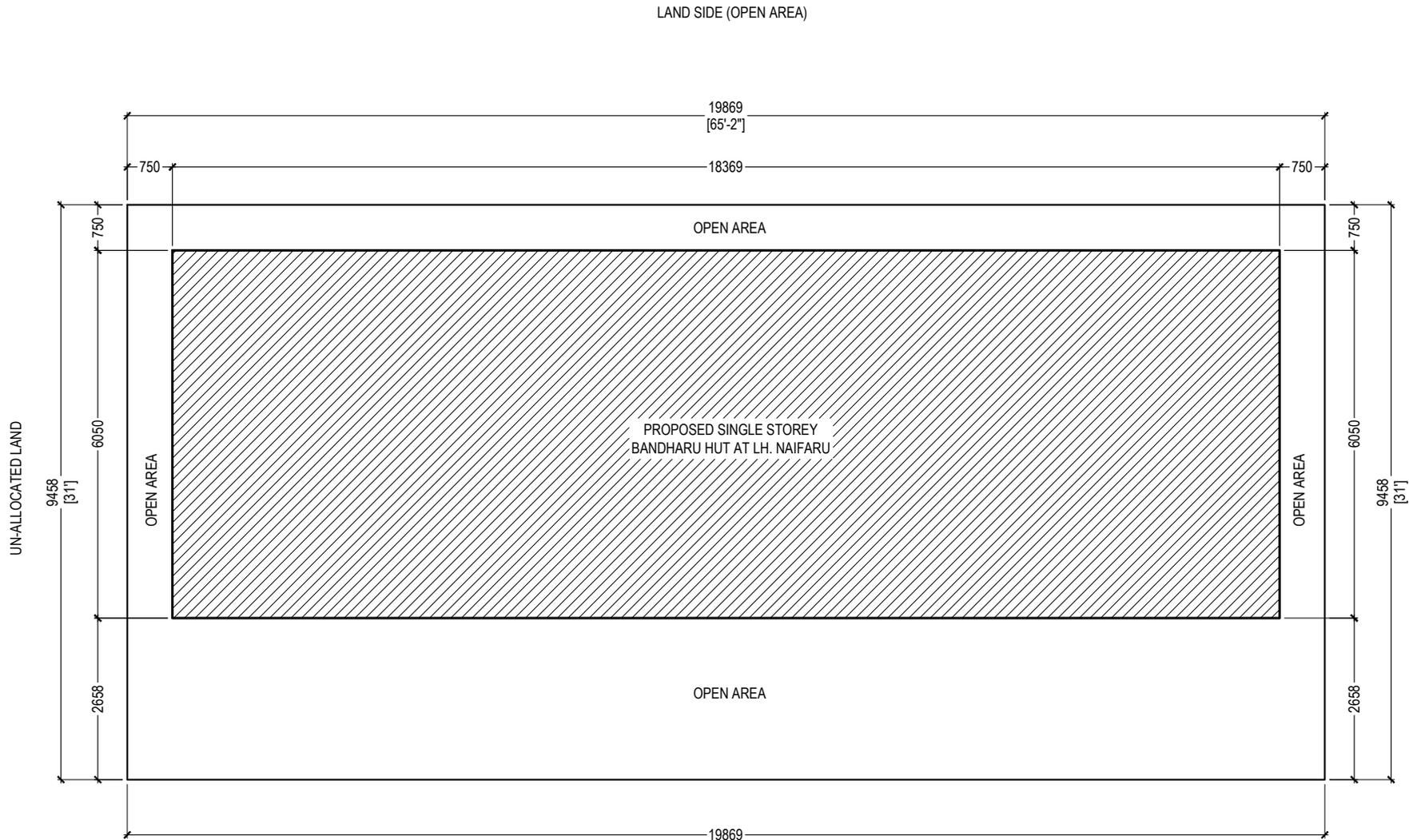
DRAWN BY	DESIGN BY	CHECKED BY
NIHAD	ZAMEER	AHUSAN

DISCIPLINE	SHEET SIZE	SCALE
GENERAL	A4	NA

REV	DESCRIPTION	DATE

FIRST EMISSION	DRAWING NUMBER
NOVEMBER 01, 2023	G-1.01
UPDATE ---	

DRAWING LIST



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CLIENT FANSAVANNA
PROJECT NAME SINGLE STOREY BANDHARU HUT
LOCATION LH. NAIFARU
DRAWING TITLE SITE PLAN

DESIGN STAGE
<input type="radio"/> CONCEPTUAL DESIGN <input checked="" type="radio"/> BUILDING APPROVAL <input type="radio"/> CONSTRUCTION DRAWINGS <input type="radio"/> AS-BUILT DOCUMENTATION

DRAWN BY NIHAD	DESIGN BY ZAMEER	CHECKED BY AHUSAN
DISCIPLINE ARCHITECTURAL	SHEET SIZE A4	SCALE 1:100

REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER A-2.01
UPDATE ---	

SITE PLAN

SCALE - 1:100

HARBOUR SIDE (OPEN AREA)

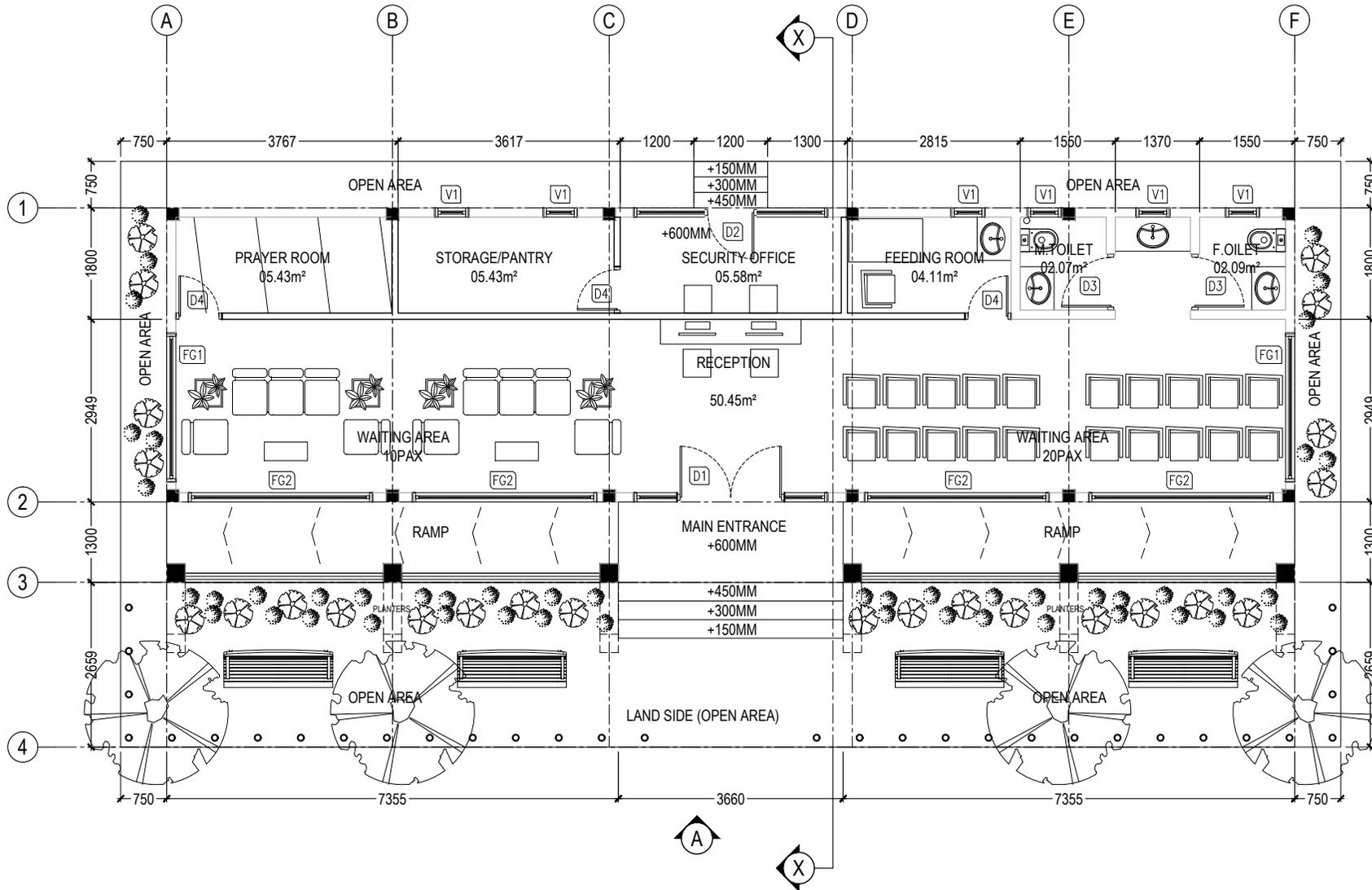
NOTE :

- BUILDUP LINE
- PLOT BOUNDARY LINE

PLOT AREA = 187.92 SQ.M (2022.76 SQ.FT)
 BUILDUP AREA = 111.13 SQ.M (1196.22 SQ.FT)
 OPEN AREA = 76.79 SQ.M (826.54 SQ.FT)



LAND SIDE (OPEN AREA)



GROUND FLOOR PLAN

SCALE - 1:100

HARBOUR SIDE (OPEN AREA)

NOTE :

- FULL HEIGHT WALL
- 2.0M HEIGHT WALL
- 1.2M HEIGHT RAILING

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FULOONIYA GOALHI, MALE',
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PROJECT NAME
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LOCATION
LH. NAIFARU

DRAWING TITLE
GROUND FLOOR PLAN

DESIGN STAGE

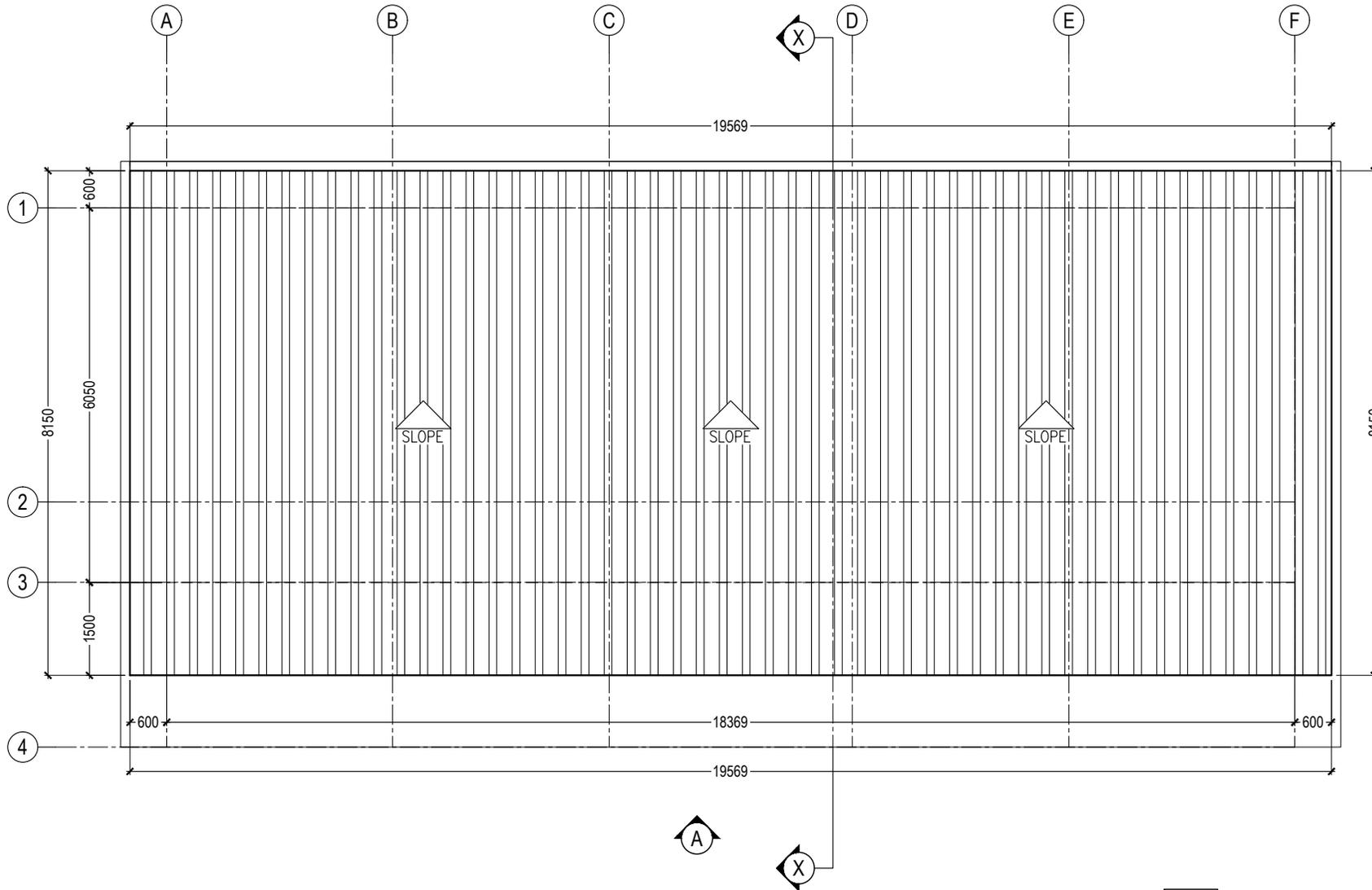
- CONCEPTUAL DESIGN
- BUILDING APPROVAL
- CONSTRUCTION DRAWINGS
- AS-BUILT DOCUMENTATION

DRAWN BY: NIHAD | DESIGN BY: ZAMEER | CHECKED BY: AHUSAN

DISCIPLINE: ARCHITECTURAL | SHEET SIZE: A4 | SCALE: 1:100

REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER A-2.02
UPDATE ---	



ROOF PLAN

SCALE - 1:100

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PROJECT NAME SINGLE STOREY BANDHARU HUT
LOCATION LH. NAIFARU
DRAWING TITLE ROOF PLAN

DESIGN STAGE

- CONCEPTUAL DESIGN
- BUILDING APPROVAL
- CONSTRUCTION DRAWINGS
- AS-BUILT DOCUMENTATION

DRAWN BY NIHAD	DESIGN BY ZAMEER	CHECKED BY AHUSAN
DISCIPLINE ARCHITECTURAL	SHEET SIZE A4	SCALE 1:100

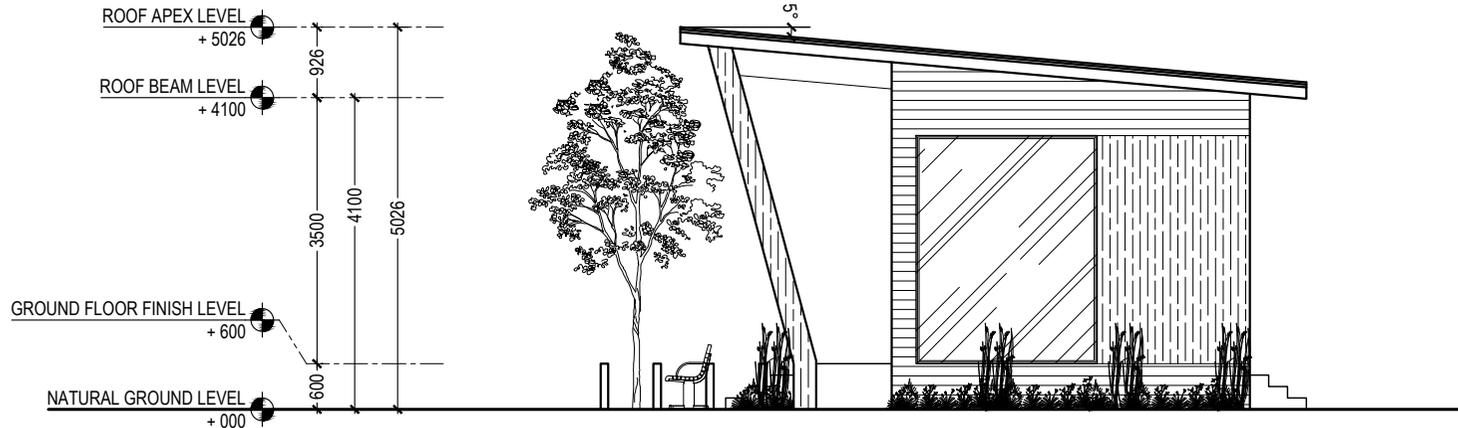
REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER A-2.03
UPDATE ---	



ELEVATION - A

SCALE - 1:100



ELEVATION - B

SCALE - 1:100

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PROJECT NAME

SINGLE STOREY BANDHARU HUT

LOCATION

LH. NAIFARU

DRAWING TITLE

ELEVATION - A & ELEVATION - B

DESIGN STAGE

- CONCEPTUAL DESIGN
- BUILDING APPROVAL
- CONSTRUCTION DRAWINGS
- AS-BUILT DOCUMENTATION

DRAWN BY NIHAD	DESIGN BY ZAMEER	CHECKED BY AHUSAN
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DISCIPLINE ARCHITECTURAL	SHEET SIZE A4	SCALE 1:100
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REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER A-3.01
UPDATE ---	

GENERAL NOTES

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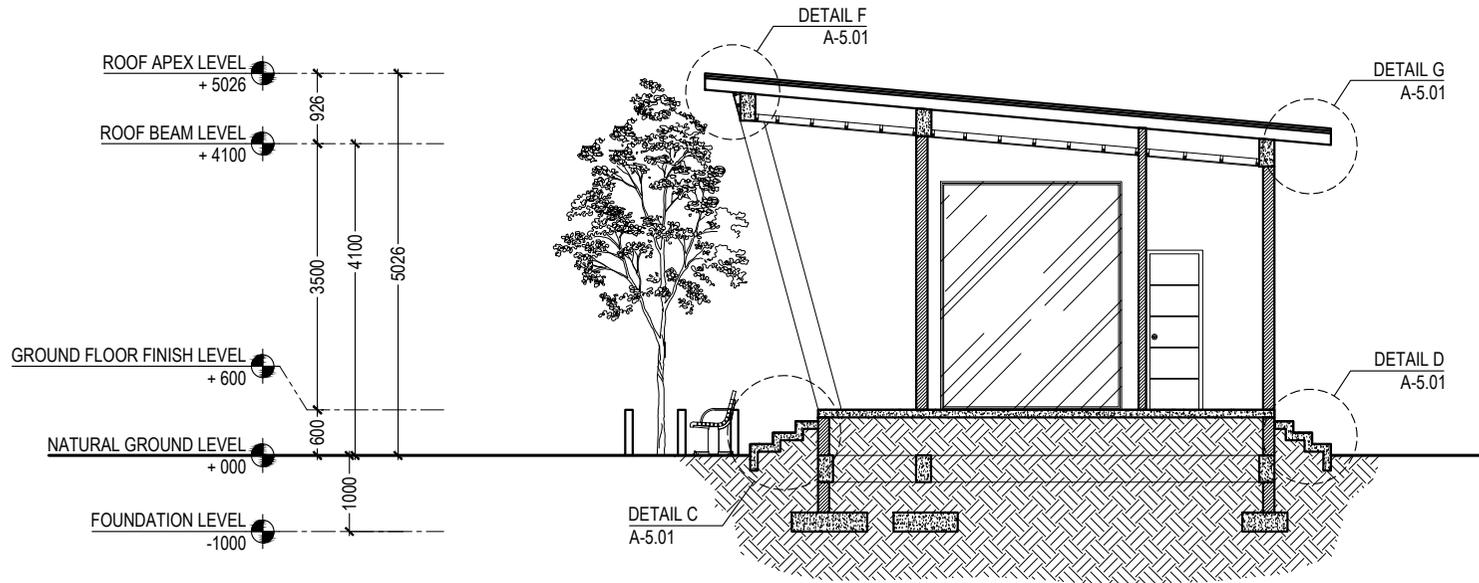
CLIENT FANSAVANNA
PROJECT NAME SINGLE STOREY BANDHARU HUT
LOCATION LH. NAIFARU
DRAWING TITLE SECTION - X

DESIGN STAGE
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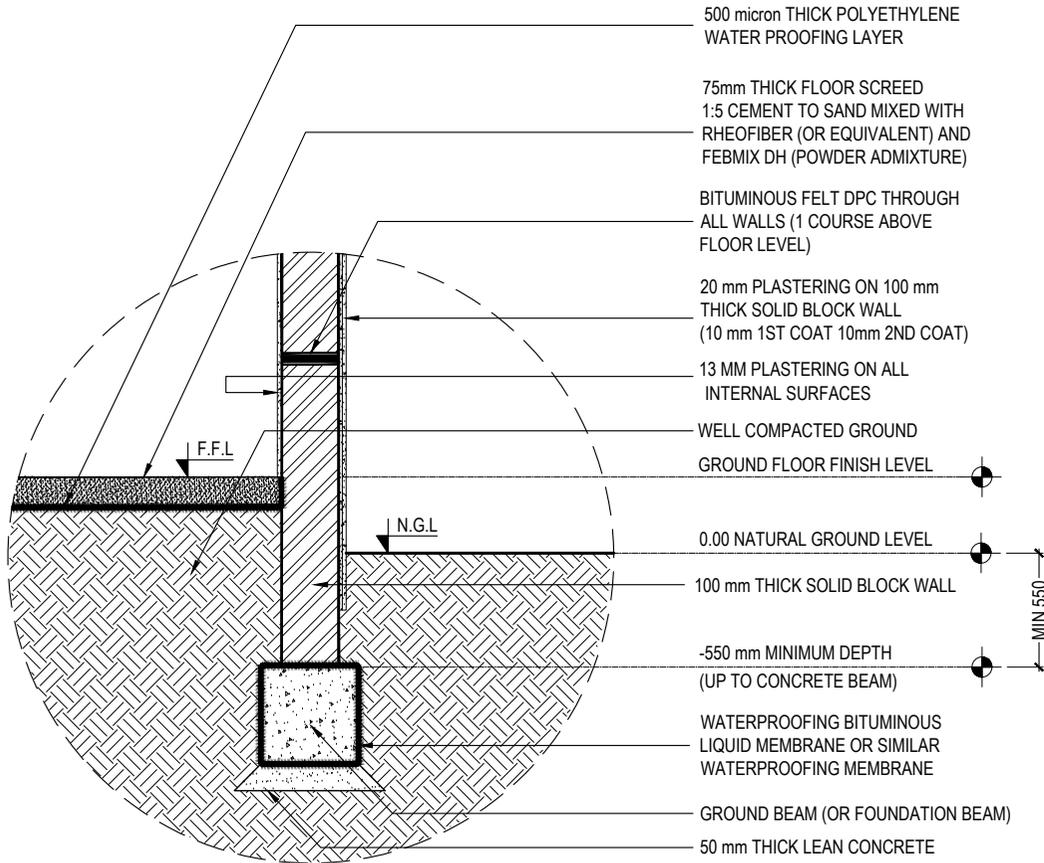
DRAWN BY NIHAD	DESIGN BY ZAMEER	CHECKED BY AHUSAN
DISCIPLINE ARCHITECTURAL	SHEET SIZE A4	SCALE 1:100

REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER A-4.01
UPDATE ---	



SECTION - X
SCALE - 1:100

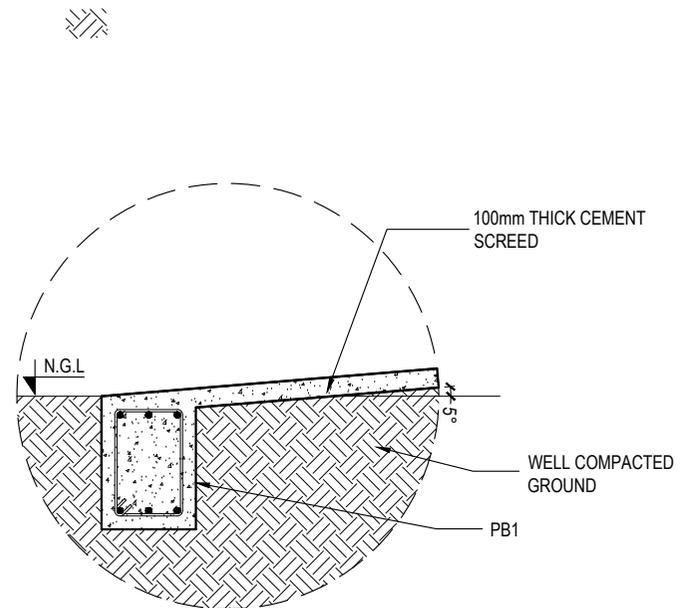


DETAIL A: PERIMETER WALL BASE

SCALE - 1:20

GENERAL NOTES :

- FOR ALL CONCRETE WORKS INCLUDING PLASTERING SCREEDING USE WATERPROOFING AND PLASTISIZING ADMIXTURE
- USE CRACK CONTROLLING FIBERGLASS ADDITIVE FOR ALL PLASTERING WORKS
- FIBERGLASS MESH MUST BE USED BETWEEN ALL ADJOINING CONCRETE AND MASONRY SURFACES PRIOR TO PLASTERING
- BLOCKS AND BLOCKWORK SHOULD COMPLY WITH BS 5628 MINIMUM CONCRETE STRENGTH AT 28 DAY IS 30 N/mm²
- ALL STRUCTURAL TIMBER MUST COMPLY WITH BS 5268
- TIMBER MEMBERS MUST BE OF STRENGTH CLASS C30 MINIMUM
- STIFFNER BEAMS / COLUMNS SHALL BE REQUIRED TO WALL AREAS GREATER THAN 12 SQ.M WHICH ARE UNSUPPORTED BY OTHER RC CONCRETE MEMBER



DETAIL B: FRONT RAMP DETAIL

SCALE - 1:20

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PROJECT NAME
SINGLE STOREY BANDHARU HUT

LOCATION
LH. NAIFARU

DRAWING TITLE
ARCHITECTURAL DETAILS - 1

DESIGN STAGE

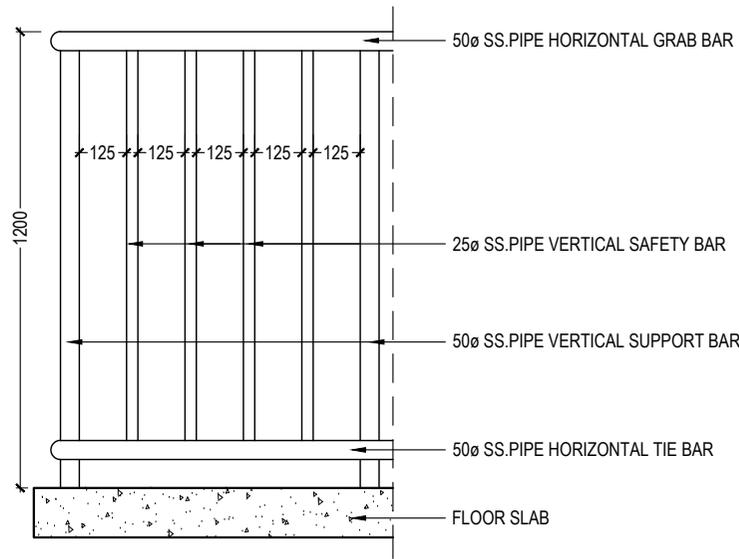
- CONCEPTUAL DESIGN
- BUILDING APPROVAL
- CONSTRUCTION DRAWINGS
- AS-BUILT DOCUMENTATION

DRAWN BY NIHAD	DESIGN BY ZAMEER	CHECKED BY AHUSAN
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DISCIPLINE ARCHITECTURAL	SHEET SIZE A4	SCALE 1:20
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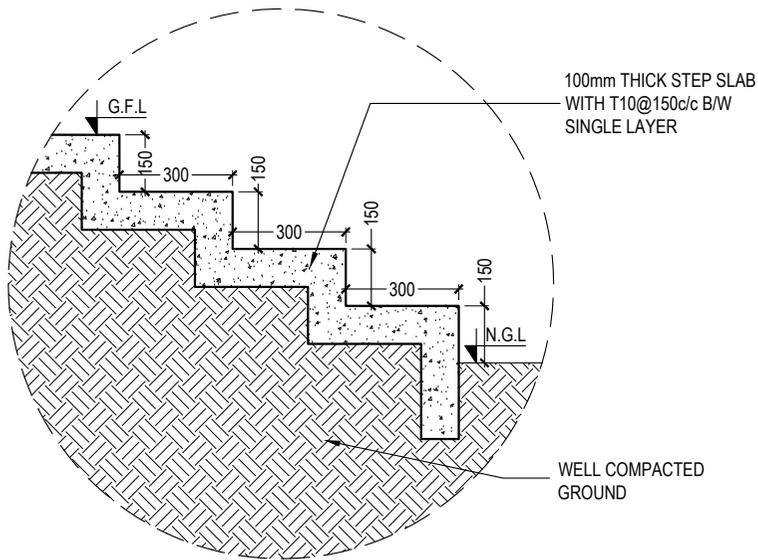
REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER A-5.01
UPDATE ---	



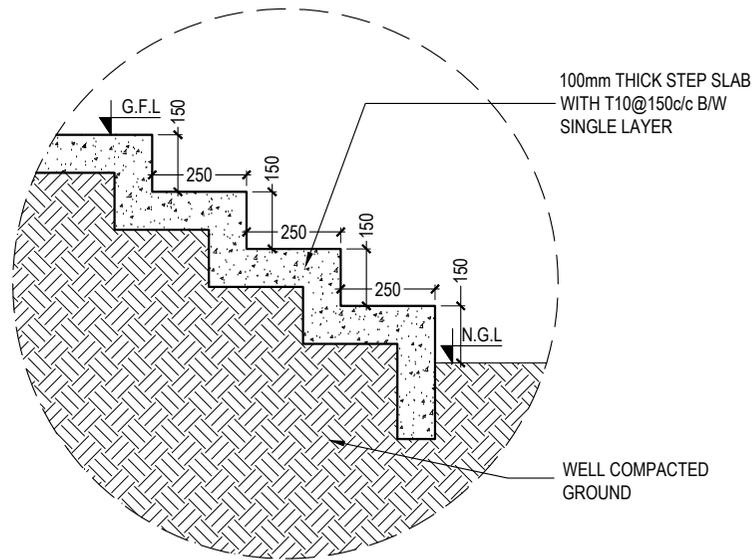
DETAIL E: SS. RAILING

SCALE - 1:20



DETAIL C: FRONT DOOR STEPS DETAIL

SCALE - 1:20



DETAIL D: REAR DOOR STEPS DETAIL

SCALE - 1:20

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 FULOONIYA GOALHI, MALE',
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SINGLE STOREY BANDHARU HUT

LOCATION
LH. NAIFARU

DRAWING TITLE
ARCHITECTURAL DETAILS - 2

DESIGN STAGE
 CONCEPTUAL DESIGN
 BUILDING APPROVAL
 CONSTRUCTION DRAWINGS
 AS-BUILT DOCUMENTATION

DRAWN BY NIHAD	DESIGN BY ZAMEER	CHECKED BY AHUSAN
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DISCIPLINE ARCHITECTURAL	SHEET SIZE A4	SCALE 1:20
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REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER A-5.02
UPDATE ---	

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SINGLE STOREY BANDHARU HUT

LOCATION
LH. NAIFARU

DRAWING TITLE
ARCHITECTURAL DETAILS - 3

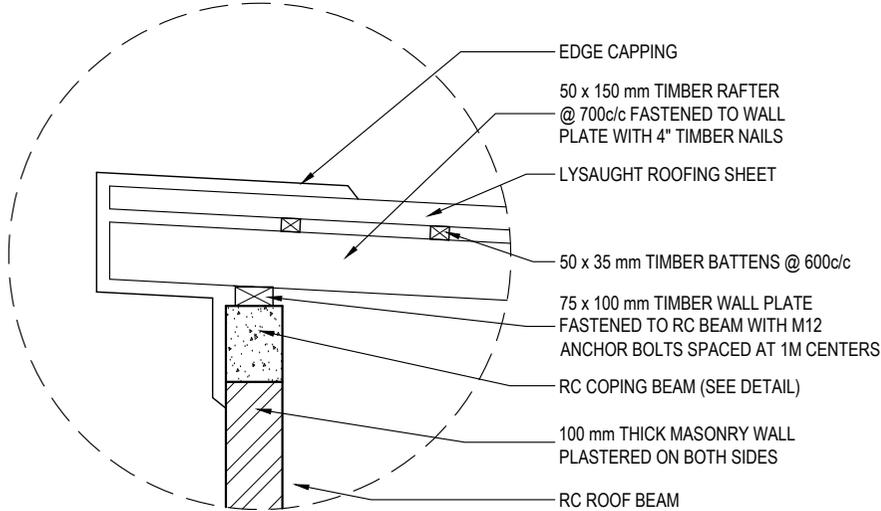
- DESIGN STAGE
- CONCEPTUAL DESIGN
 - BUILDING APPROVAL
 - CONSTRUCTION DRAWINGS
 - AS-BUILT DOCUMENTATION

DRAWN BY NIHAD	DESIGN BY ZAMEER	CHECKED BY AHUSAN
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DISCIPLINE ARCHITECTURAL	SHEET SIZE A4	SCALE 1:20
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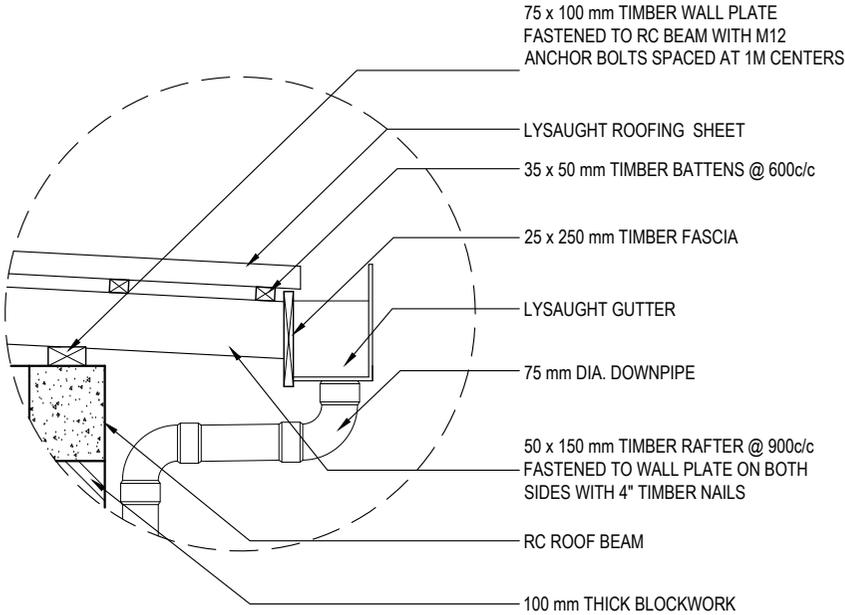
REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER A-5.03
UPDATE ---	



DETAIL F: ROOF EDGE DETAIL

SCALE - 1:20



DETAIL G: ROOF EAVES DETAIL

SCALE - 1:20

LABEL		D1	D2
PLAN			
ELEVATION			
FRAMES:	MATERIAL	ALUMINUM	ALUMINUM
	FINISH	ANODIZED	ANODIZED
PANEL:	MATERIAL	GLASS	GLASS
	FINISH	CLEAR GLASS	CLEAR GLASS
VENTILATION AREA (sq.m)			

- T TIMBER
- G GLASS
- WL WOODEN LOUVERS
- AL ALUMINUM LOUVERS

DOOR WINDOW SCHEDULE - 1

SCALE - 1:50

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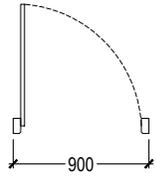
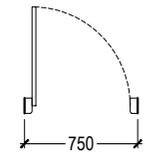
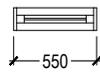
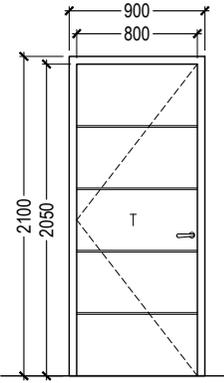
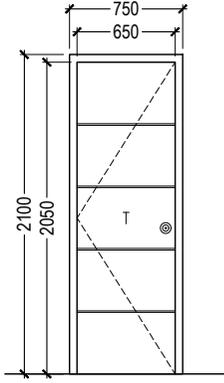
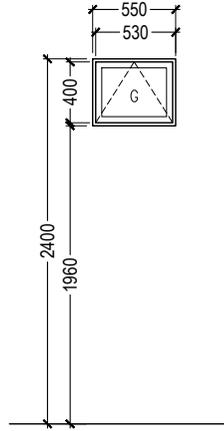
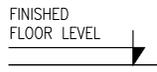
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CLIENT	FANSAVANNA
PROJECT NAME	SINGLE STOREY BANDHARU HUT
LOCATION	L.H. NAIFARU
DRAWING TITLE	DOOR WINDOW SCHEDULE - 1

DESIGN STAGE		
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<input checked="" type="radio"/>	BUILDING APPROVAL	
<input type="radio"/>	CONSTRUCTION DRAWINGS	
<input type="radio"/>	AS-BUILT DOCUMENTATION	
DRAWN BY	DESIGN BY	CHECKED BY
NIHAD	ZAMEER	AHUSAN
DISCIPLINE	SHEET SIZE	SCALE
ARCHITECTURAL	A4	1:50

REV	DESCRIPTION	DATE

FIRST EMISSION	DRAWING NUMBER
NOVEMBER 01, 2023	A-6.01
UPDATE	

LABEL	D3	D4	V1
PLAN			
ELEVATION			
	 FINISHED FLOOR LEVEL		
FRAMES:	MATERIAL TREATED TIMBER	TREATED TIMBER	ALUMINUM
	FINISH PAINTED	PAINTED	ANODIZED
PANEL:	MATERIAL TREATED TIMBER	TREATED TIMBER	GLASS
	FINISH PAINTED	PAINTED	BLACK TINTED
VENTILATION AREA (sq.m)			

- T TIMBER
- G GLASS
- WL WOODEN LOUVERS
- AL ALUMINUM LOUVERS

DOOR WINDOW SCHEDULE - 2

SCALE - 1:50

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LOCATION
LH. NAIFARU

DRAWING TITLE
DOOR WINDOW SCHEDULE - 2

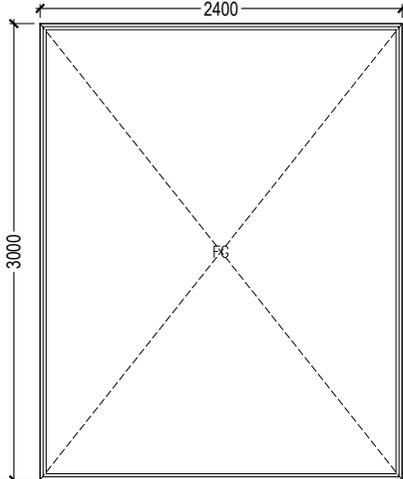
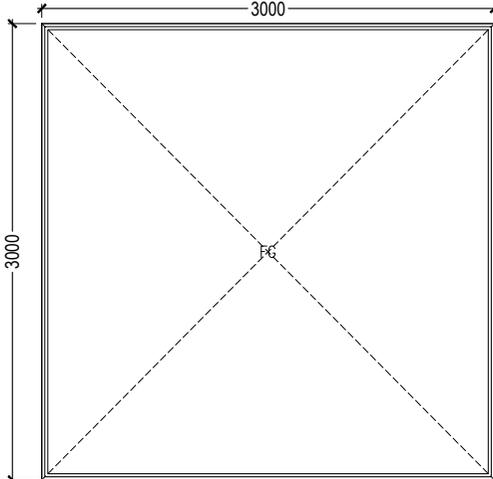
DESIGN STAGE
 CONCEPTUAL DESIGN
 BUILDING APPROVAL
 CONSTRUCTION DRAWINGS
 AS-BUILT DOCUMENTATION

DRAWN BY NIHAD	DESIGN BY ZAMEER	CHECKED BY AHUSAN
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DISCIPLINE ARCHITECTURAL	SHEET SIZE A4	SCALE 1:50
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REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER A-6.02
UPDATE ---	

LABEL	FG1	FG2
PLAN		
ELEVATION		
		
FRAMES:	MATERIAL ALUMINUM FINISH ANODIZED	ALUMINUM ANODIZED
PANEL:	MATERIAL GLASS FINISH CLEAR GLASS	GLASS CLEAR GLASS
VENTILATION AREA (sq.m)		

- T TIMBER
- G GLASS
- WL WOODEN LOUVERS
- AL ALUMINUM LOUVERS

DOOR WINDOW SCHEDULE - 3

SCALE - 1:50

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CLIENT FANSAVANNA
PROJECT NAME SINGLE STOREY BANDHARU HUT
LOCATION L.H. NAIFARU
DRAWING TITLE DOOR WINDOW SCHEDULE - 3

DESIGN STAGE
<input type="radio"/> CONCEPTUAL DESIGN
<input checked="" type="radio"/> BUILDING APPROVAL
<input type="radio"/> CONSTRUCTION DRAWINGS
<input type="radio"/> AS-BUILT DOCUMENTATION

DRAWN BY NIHAD	DESIGN BY ZAMEER	CHECKED BY AHUSAN
DISCIPLINE ARCHITECTURAL	SHEET SIZE A4	SCALE 1:50

REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER A-6.03
UPDATE ---	

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FLOOR	SPACE	AREA OF SPACE	AREA REQUIRED FOR VENTILATION	NATURAL VENTILATION UNIT	NATURAL VENTILATION PROVIDED	PERCENTAGE OF NATURAL VENTILATION PROVIDED
GROUND FLOOR	RECEPTION / WAITING AREA	50.45 m ²	5.05 m ²	A/C	–	–
	MALE TOILET	02.07 m ²	0.21 m ²	MV	–	–
	FEMALE TOILET	02.09 m ²	0.21 m ²	MV	–	–
	FEEDING ROOM	04.11 m ²	0.41 m ²	MV	–	–
	SECURITY ROOM	05.58 m ²	0.56 m ²	MV	–	–
	STORAGE / PANTRY	05.43 m ²	0.54 m ²	MV	–	–
	PRAYER ROOM	05.43 m ²	0.54 m ²	MV	–	–

CLIENT
FANSAVANNA

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SINGLE STOREY BANDHARU HUT

LOCATION
LH. NAIFARU

DRAWING TITLE
VENTILATION SCHEDULE

DESIGN STAGE
 CONCEPTUAL DESIGN
 BUILDING APPROVAL
 CONSTRUCTION DRAWINGS
 AS-BUILT DOCUMENTATION

DRAWN BY NIHAD	DESIGN BY ZAMEER	CHECKED BY AHUSAN
DISCIPLINE ARCHITECTURAL	SHEET SIZE A4	SCALE NA

REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER A-6.04
UPDATE ---	

NOTE :

-ALL CLOSETS & WATER PUMPS ROOM ARE MECHANICALLY VENTILATED.
 -MECHANICAL VENTILATION SHALL BE PROVIDED USING AIR HANDLING UNITS CONNECTED TO DUCTWORK THAT SUPPLIES FRESH AIR FROM OUTSIDE AND EXTRACTS STALE AIR FROM INSIDE

VENTILATION SCHEDULE

GENERAL

1. ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND SERVICE DRAWINGS, SPECIFICATIONS AND WRITTEN INSTRUCTIONS IF ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFEREED FOR DECISION BEFORE PROCEEDING WITH THE WORK.
2. THE DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED.
3. DURING THE CONSTRUCTION PERIOD THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE STABILITY OF STRUCTURE AND ENSURE THAT NO STRUCTURAL ELEMENT BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
4. WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT RECENT BS CODES OR OTHER ACCEPTABLE STANDARDS.
5. BASED ON THE DRAWINGS AND SPECIFICATIONS THE CONTRACTOR SHALL PRODUCE STRUCTURAL SHOP DRAWINGS FOR APPROVAL IF REQUESTED.
6. ALL DIMENSIONS TO STRUCTURAL DRAWINGS ARE IN MILLIMETERS UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METERS.
7. THE REINFORCED CONCRETE DESIGN IS BASED ON BS 8110' STRUCTURAL USE OF CONCRETE'
8. REFER TO STANDARD AND TYPICAL DETAILS AS SHOWN IN THE TYPICAL DRAWINGS FOR DETAILS NOT SHOWN SPECIFICALLY.
9. ALL PROPS AND FRAMEWORK FOR BEAMS AND SLABS SHALL BE REMOVED BEFORE CONSTRUCTION OF ANY MASONRY WALLS OR OTHER PERMANENT LOADING ON THE SLAB.
10. ALL NON-LOAD BEARING WALLS SHALL BE KEPT CLEAR OFF THE UNDERSIDE OF SLABS AND BEAMS BY 30MM. THE JOINT SHALL BE FILLED WITH FIBRE BOARD OR COMPRESSIBLE MATERIAL PRESSED METAL COVERING BOTH SIDES OF THE JOINT, AND THE METAL COVERING SHALL BE FIXED TO SOFFIT OF THE BEAM OR SLAB AS THE CASE MAYBE.

FOUNDATIONS

1. ALL FOUNDATIONS HAS BEEN DESIGNED FOR SAFE GROUND PRESSURE OF 150 KN/M2
2. ALL FOOTINGS SHALL BE PLACED MINIMUM 1.0M BELOW THE NATURAL GROUND LEVEL UNLESS STATED OTHERWISE
3. ALL BACKFILL SHOULD BE DONE WITH APPROVED MATERIAL AND SOURCE. ALL BACKFILL SHOULD BE STRUCTURAL FILL, COMPACTED IN LAYERS AS SPECIFIED.
4. WEAK POCKETS OUND BELOW THE ASSUMED FOUNDATION LEVELS SHALL BE REMOVED AND REPLACED BY PLAIN CONCRETE.
5. IN CASE OF EXCAVATIONS BELOW THE ASSUMED LEVELOF THE FOOTING, THE SOIL SHALL BE REPLACED BY PLAIN CONCRETE.
6. IN CASE GROUND WATER IS PRESENT ABOVE FOUNDATION LEVEL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING THE SITE, AND LOWERING THE GROUND WATER TO ATLEAST 70CM BELOW LEVEL OF FOUNDATIONS.
7. THE CONTRACTOR SHALL MAINTAIN DRY WORKING CONDITIONSTHROUGHOUT 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.
8. NO BACK FILLING SHALL BE PLACED AGAINST WALLS RETAINING EARTH, UNLESS THE WALLS ACHIEVE SUFFICIENT STRENGTH TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE.
9. UNLESS OTHERWISE SHOWN ALL FOOTINGS ARE CONCENTRIC TO COLUMNS.

CONCRETE

1. A. ALL INSITU STRUCTURAL CONCRETE SHALL HAVE MINIMUM 28 DAYS CUBE STRENGTH OF 30 N/mm² TO THE RELEVANT CLAUSES OF BS5328.
B. ALL PLAIN CONCRETE (OR BLINDING)SHALL HAVE MINIMUM 28 DAYS CUBE STRENGTH OF 15 N/mm² (EQUIVALENT CYLINDER STRENGTH, FC = 12 N/mm²), TO THE RELEVANT CLAUSES OF BS538.
2. SULPHATE RESISTING CEMENT SHALL BE USED FOR ALL CONCRETE IN CONTACT WITH GARBAGE.
3. NO OPENINGS, HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE IN THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL.
4. CONSTRUCTION AND EXPANTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED.
5. NO ELECTRICAL CONDUIT AND PIPES ARE TO BE CAST IN COLUMNS OR THROUGH BEAMS WITHOUT PRIOR APPROVAL UNLESS OTHERWISE SHOWN IN THE DRAWINGS.
6. SPECIAL RULES REGARDING CONCRETING IN HOT WEATHER SHALL BE OBSERVED
7. OPENING IN SLABS:
 - FOR OPENING LESS THAN 150 X 150 MM, BARS SHALL BE RE-ARRANGED AROUND THE OPENING.
 - FOR OPENINGS GREATER THAN 300 X 300 MM BUT LESS THAN 600X600 MM AND NOT SHOWN ON PLAN, PROVIDE 2 DIA 16 TOP AND BOTTOM ALONG EACH SIDE AND DIAGONALLY AT CORNERS OR AS OTHERWISE DETAILED. AMOUNT OF BARS DISCONTINUED DUE TO THE OPENING SHALL BE PLACED AT THE RESPECTIVE SIDES. OPENINGS GREATER THAN 600 X 600 MM AND NOT SHOWN ON PLAN SHALL BE APPROVED.
8. SHEAR KEY SHALL BE PROVIDED AT ALL CONSTRUCTION JOINTS.

REINFORCEMENT

1. HIGH STRENGTH DEFORMED BARS DENOTED T SHALL CONFIRM TO BS-4449 WITH MINIMUM YIELD STRENGTH FY= 460 N/MM2, MILD STEEL DENOTED R SHALL HAVE 250N/mm2 YIELD STRENGTH. WIELDED WIRE MESH SHALL COMPLY WITH BS-4483.
2. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITION SHOWN OR AS OTHERWISE APPROVED
3. SPACER BARS SHALL BE PROVIDED AT 100CM CENTERS WHEREVER REINFORCEMENT IS PLACED IN MORE THAN ONE LAYER, UNLESS STATED OTHERWISE
4. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED. IF REINFORCEMENT SHOULD BE WELDED, APPROVAL IS REQUIRED.
5. ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS, OR SUPPORT BARS.
6. TYPICAL DEVELOPMENT AND SPLICES OF DEFORMED BARS WITH FY = 460 N/MM2 AND FCU = 30 N/MM2, (CUBE STRENGTH) SHALL BE AS FOLLOWS, UNLESS OTHERWISE MENTIONED IN DRAWINGS:
 - 6.1 BASIC TENSION DEVELOPMENT LENGTH, LD = 56 X BAR DIA
 - 6.2 MINIMUM COMPRESSION DEVELOPMENT LENGTH, LDC = 40 X BAR DIA (OR 300MM WHICH EVER IS MORE)

GENERAL NOTES

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M. HONEY SEASON, 2ND FLOOR,
FULOONIYA GOALHI, MALE',
REPUBLIC OF MALDIVES
anova.mv@gmail.com
757 0070
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CLIENT

FANSAVANNA

PROJECT NAME

SINGLE STOREY BANDHARU HUT

LOCATION

LH. NAIFARU

DRAWING TITLE

GENERAL NOTES

DESIGN STAGE

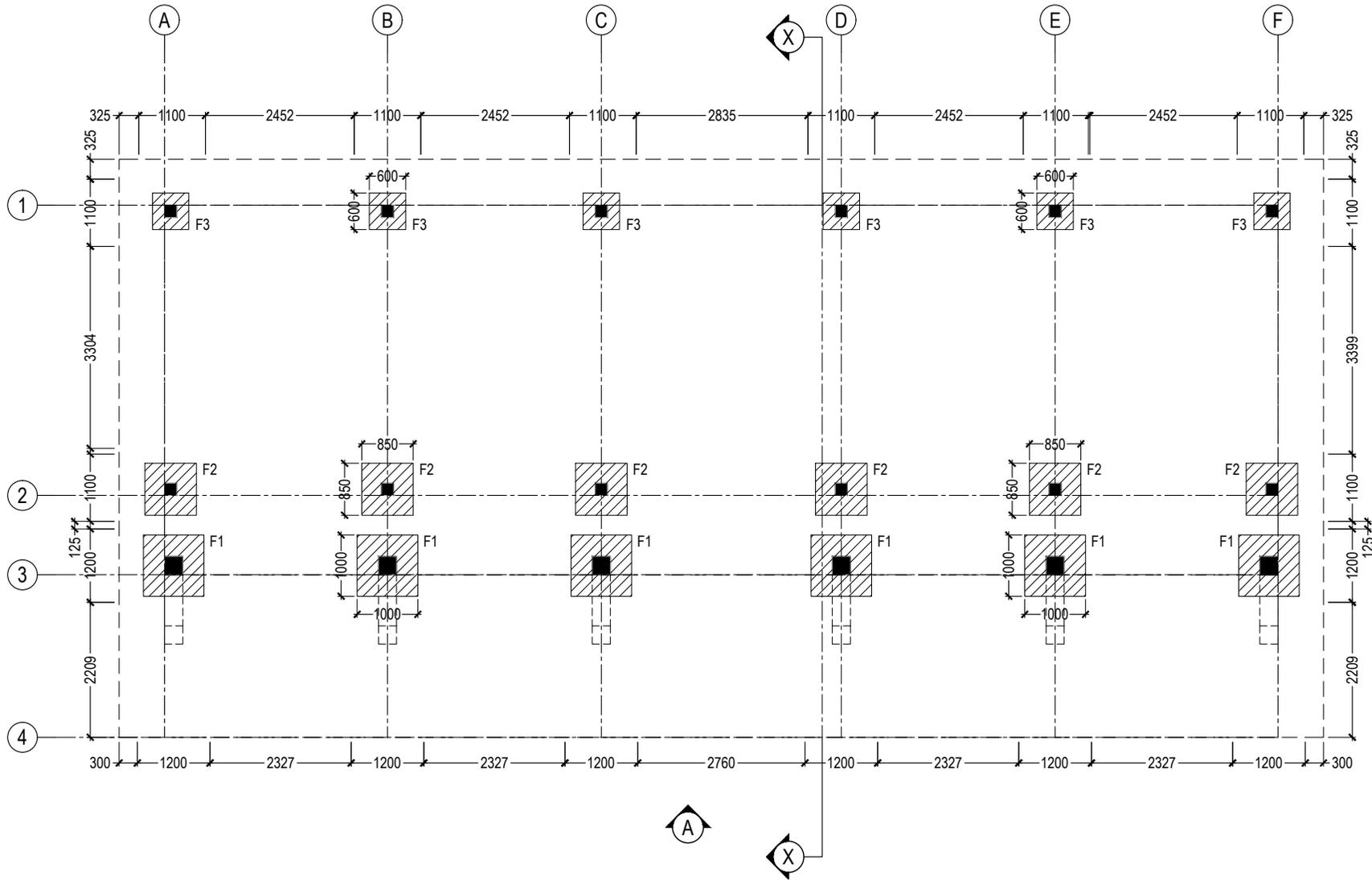
- CONCEPTUAL DESIGN
- BUILDING APPROVAL
- CONSTRUCTION DRAWINGS
- AS-BUILT DOCUMENTATION

DRAWN BY NIHAD	DESIGN BY NAFIU	CHECKED BY HANEEF
DISCIPLINE GENERAL	SHEET SIZE A4	SCALE NA

REV	DESCRIPTION	DATE

FIRST EMISSION SEPTEMBER 11, 2023	DRAWING NUMBER S-1.01
UPDATE ---	

GENERAL NOTES



FOUNDATION PLAN

SCALE - 1:100

NOTE :

FOUNDATION DEPTH = 1000mm

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M. HONEY SEASON, 2ND FLOOR,
 FULOONIYA GOALHI, MALE',
 REPUBLIC OF MALDIVES
 anova.mv@gmail.com
 757 0070
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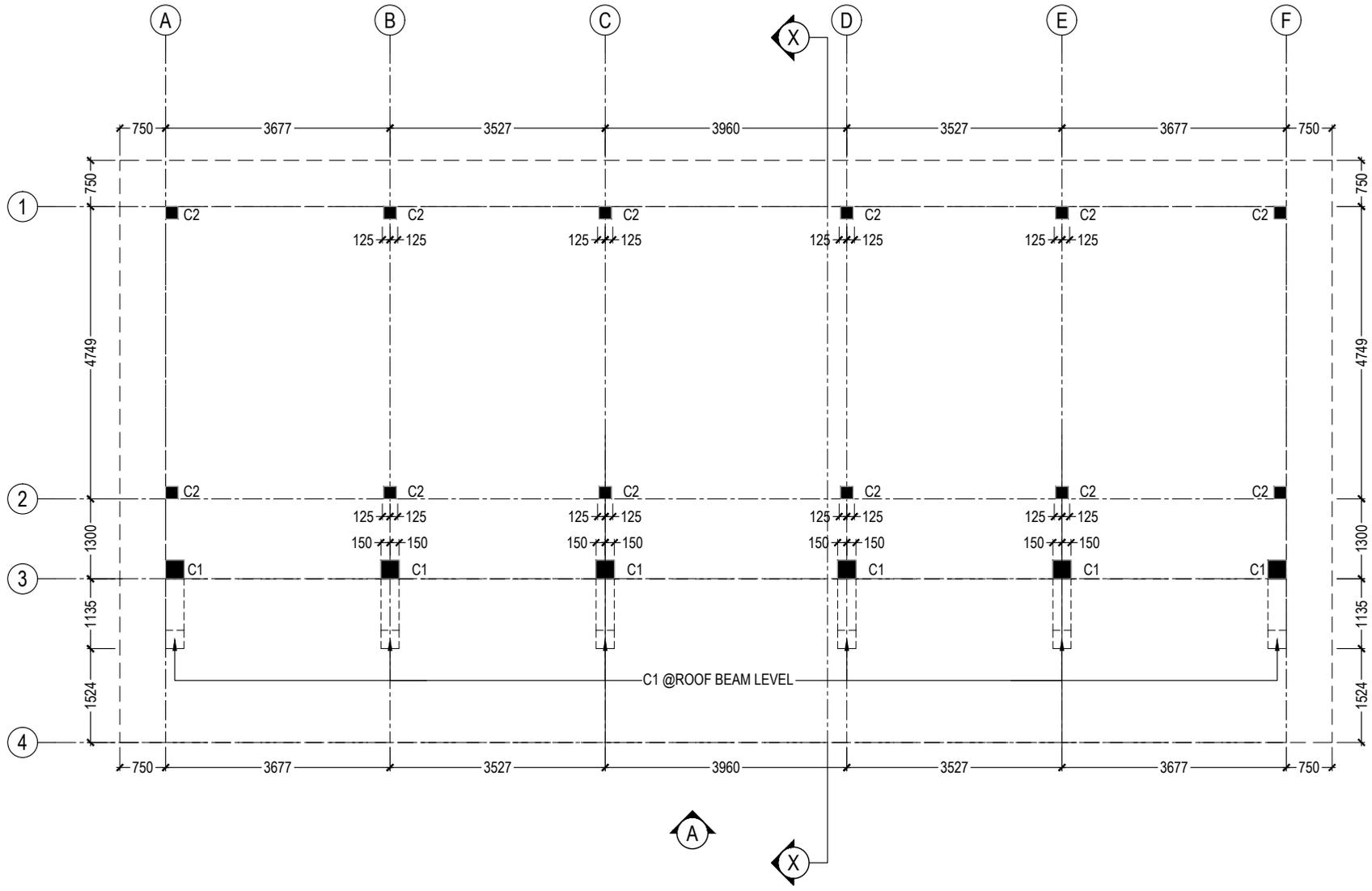
CLIENT FANSAVANNA
PROJECT NAME SINGLE STOREY BANDHARU HUT
LOCATION LH. NAIFARU
DRAWING TITLE FOUNDATION PLAN

DESIGN STAGE
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DRAWN BY NIHAD	DESIGN BY NAFIU	CHECKED BY HANEEF
DISCIPLINE STRUCTURAL	SHEET SIZE A4	SCALE 1:100

REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER S-2.01
UPDATE ---	



COLUMN LAYOUT

SCALE - 1:100

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M. HONEY SEASON, 2ND FLOOR,
 FULOONIYA GOALHI, MALE',
 REPUBLIC OF MALDIVES
 anova.mv@gmail.com
 757 0070
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PROJECT NAME SINGLE STOREY BANDHARU HUT
LOCATION LH. NAIFARU
DRAWING TITLE COLUMN AND GRID PLAN

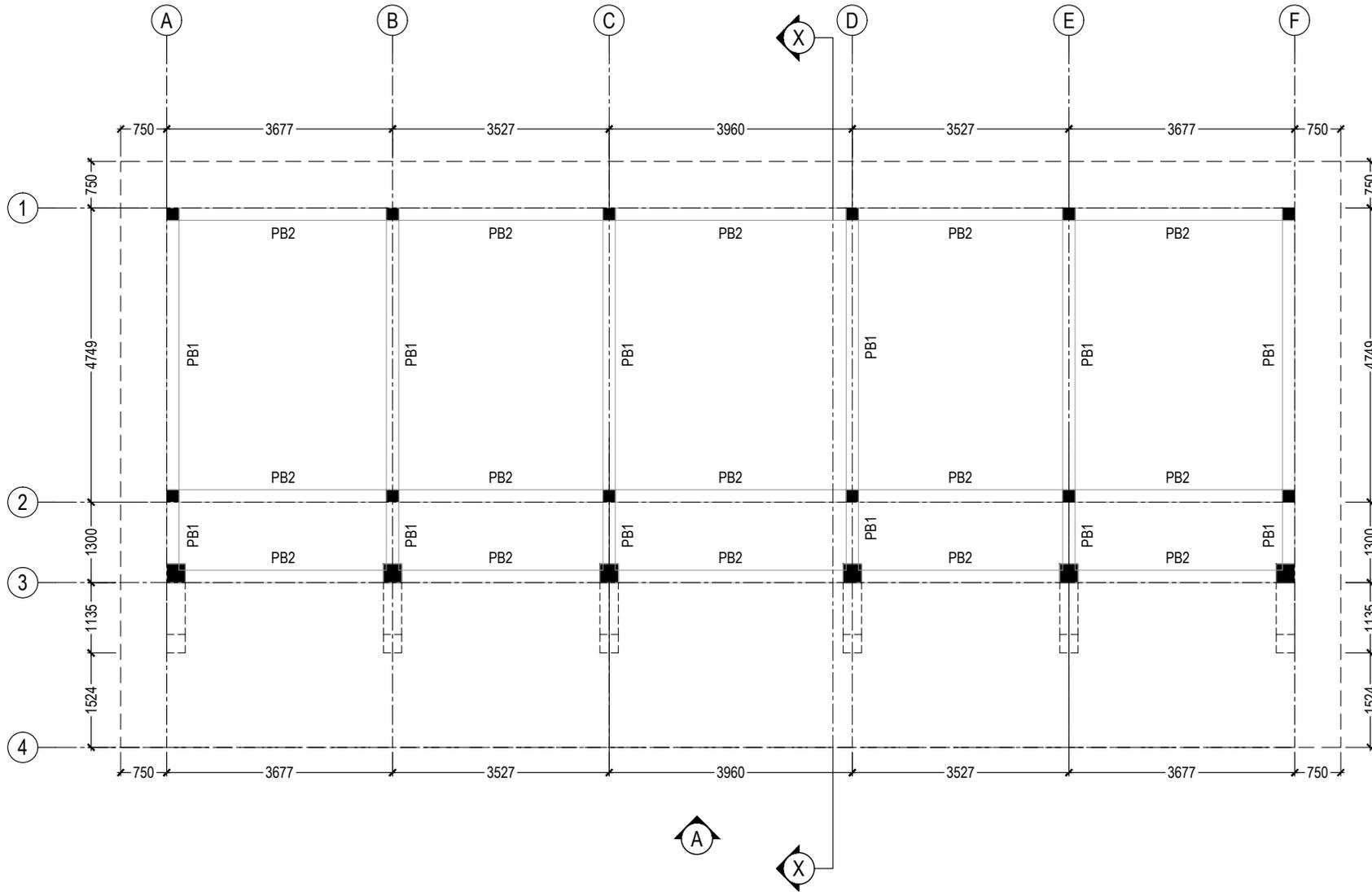
DESIGN STAGE

- CONCEPTUAL DESIGN
- BUILDING APPROVAL
- CONSTRUCTION DRAWINGS
- AS-BUILT DOCUMENTATION

DRAWN BY NIHAD	DESIGN BY NAFIU	CHECKED BY HANEEF
DISCIPLINE STRUCTURAL	SHEET SIZE A4	SCALE 1:100

REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER S-2.02
UPDATE ---	



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 M. HONEY SEASON, 2ND FLOOR,
 FULOONIYA GOALHI, MALE',
 REPUBLIC OF MALDIVES
 anova.mv@gmail.com
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CLIENT FANSAVANNA
PROJECT NAME SINGLE STOREY BANDHARU HUT
LOCATION LH. NAIFARU
DRAWING TITLE PLINTH BEAM PLAN

DESIGN STAGE

- CONCEPTUAL DESIGN
- BUILDING APPROVAL
- CONSTRUCTION DRAWINGS
- AS-BUILT DOCUMENTATION

DRAWN BY NIHAD	DESIGN BY NAFIU	CHECKED BY HANEEF
DISCIPLINE STRUCTURAL	SHEET SIZE A4	SCALE 1:100

REV	DESCRIPTION	DATE

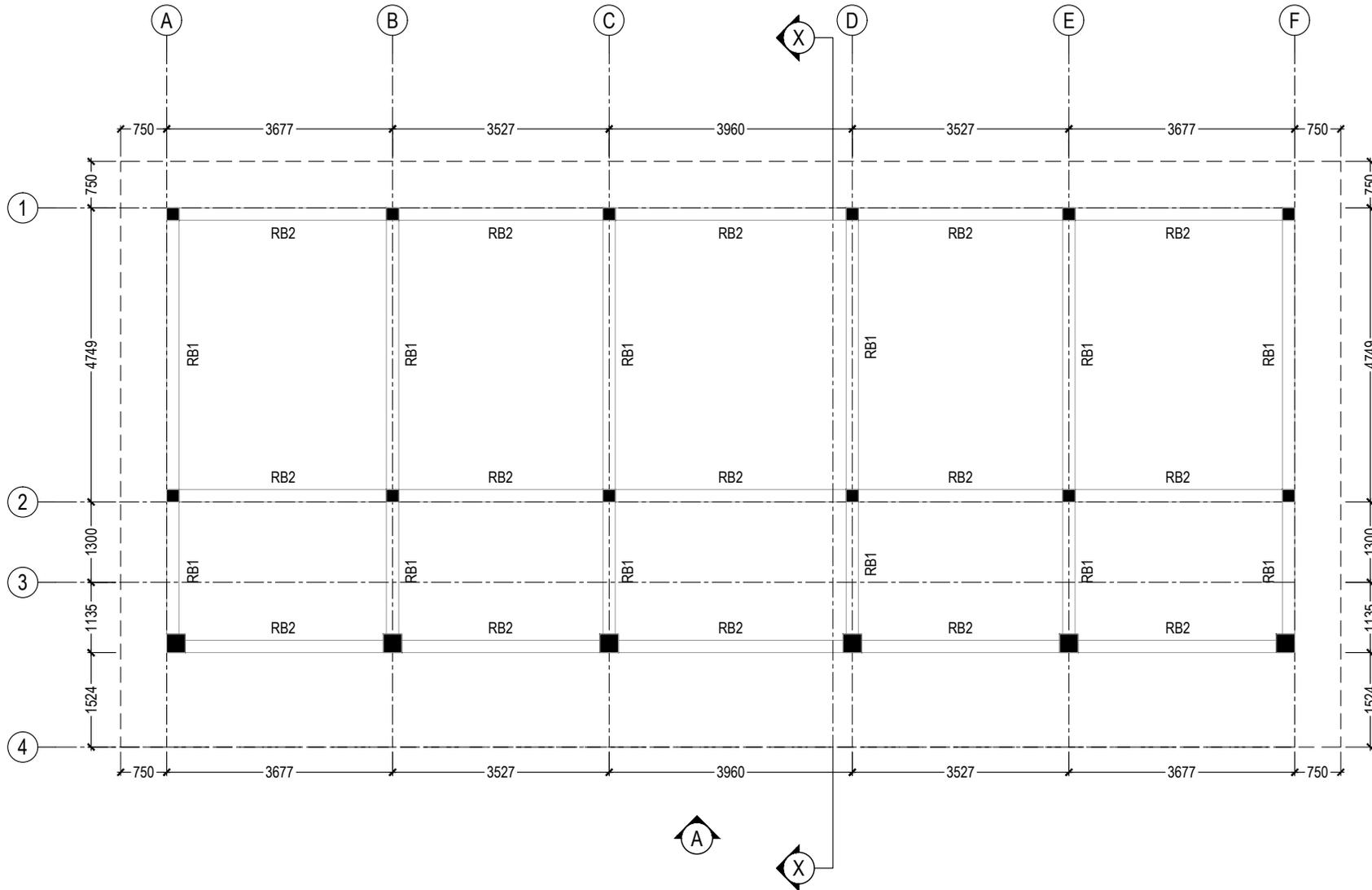
PLINTH BEAM PLAN

SCALE - 1:100

NOTE :

ALL BEAMS ARE AT NATURAL GROUND LEVEL

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER S-2.03
UPDATE ---	



ROOF BEAM PLAN

SCALE - 1:100

NOTE :

ROOF SLOPE = 5°

ROOF BEAMS ARE INCLINED ALONG THE ROOF SLOPE

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M. HONEY SEASON, 2ND FLOOR,
 FULOONIYA GOALHI, MALE',
 REPUBLIC OF MALDIVES
 anova.mv@gmail.com
 757 0070
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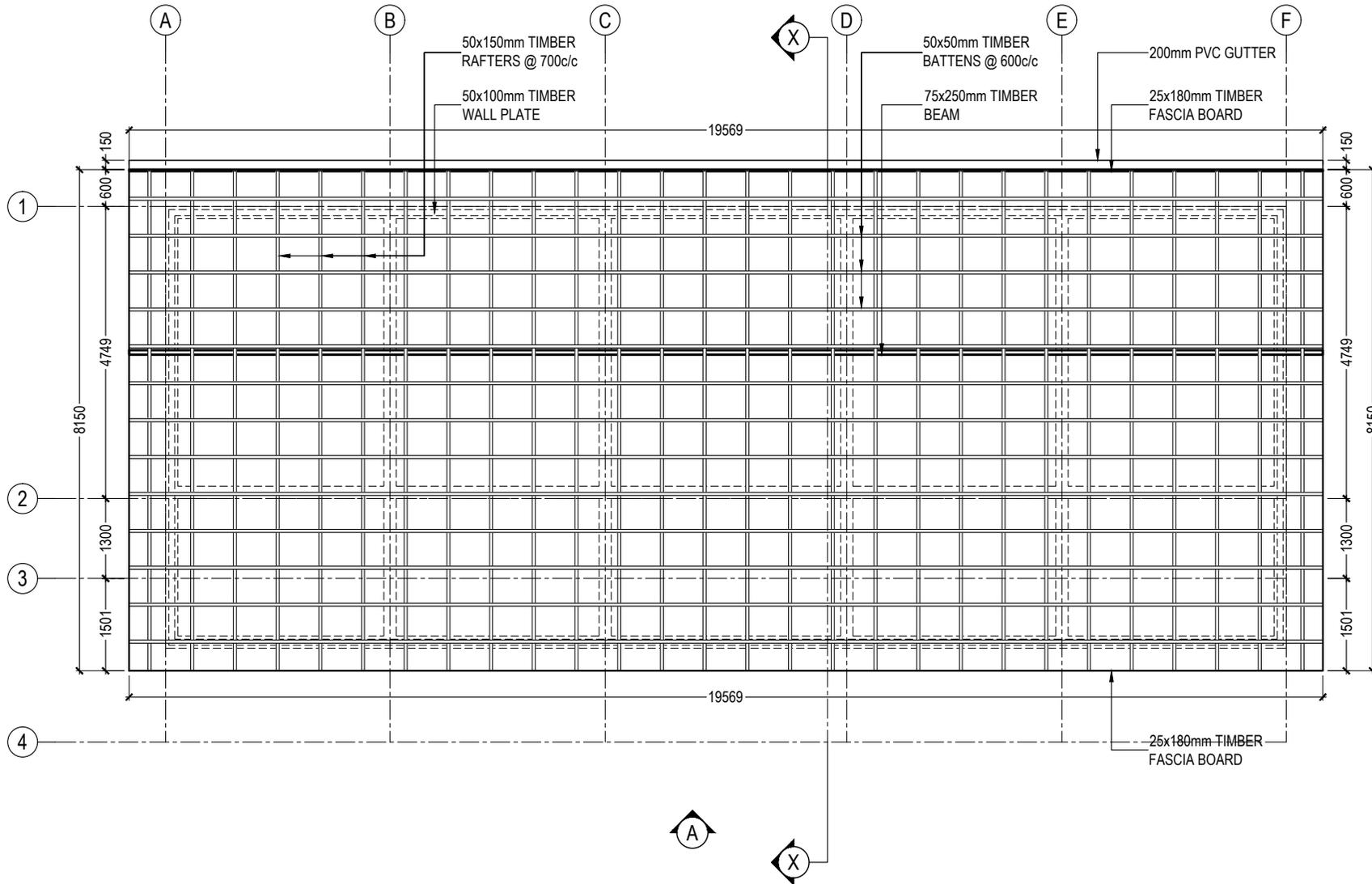
CLIENT FANSAVANNA
PROJECT NAME SINGLE STOREY BANDHARU HUT
LOCATION LH. NAIFARU
DRAWING TITLE ROOF BEAM PLAN

DESIGN STAGE
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DRAWN BY NIHAD	DESIGN BY NAFIU	CHECKED BY HANEEF
DISCIPLINE STRUCTURAL	SHEET SIZE A4	SCALE 1:100

REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER S-2.04
UPDATE ---	



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 M. HONEY SEASON, 2ND FLOOR,
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CLIENT FANSAVANNA
PROJECT NAME SINGLE STOREY BANDHARU HUT
LOCATION LH. NAIFARU
DRAWING TITLE ROOF STRUCTURE PLAN

- DESIGN STAGE
- CONCEPTUAL DESIGN
 - BUILDING APPROVAL
 - CONSTRUCTION DRAWINGS
 - AS-BUILT DOCUMENTATION

DRAWN BY NIHAD	DESIGN BY NAFIU	CHECKED BY HANEEF
DISCIPLINE STRUCTURAL	SHEET SIZE A4	SCALE 1:100

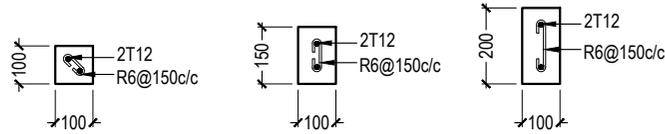
REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER S-2.05
UPDATE ---	

ROOF STRUCTURE PLAN
 SCALE - 1:100

NOTE:
 ROOF SLOPE = 5°

ALL STRUCTURAL TIMBER TO BE GRADE C30 AND SHALL COMPLY WITH BS 5268



STIFFENER COLUMN (SC)
COVER = 30mm

COPING BEAM (CB)
COVER = 30mm

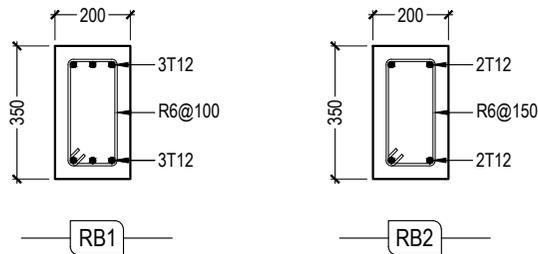
LINTEL BEAM (LB)
COVER = 30mm

NOTE :

STIFFENER BEAMS OR COLUMNS SHALL BE REQUIRED TO WALL AREAS GREATER THAN 12m² WHICH ARE UNSUPPORTED Laterally BY CONCRETE WALLS OR COLUMNS

TYPICAL RC MEMBER DETAILS

SCALE - 1:20

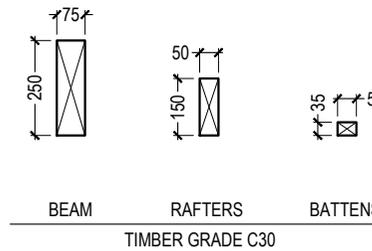


RC BEAM DETAILS

SCALE - 1:20

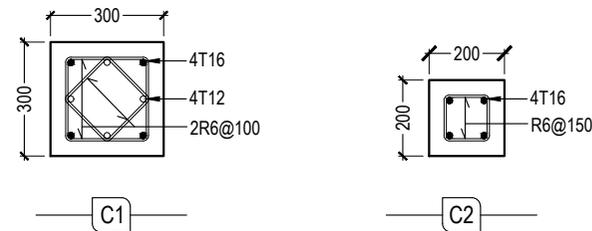
NOTE :

- EXCEPT OTHERWISE NOTED
- FOOTING COVER = 50mm
 - TIE BEAM COVER = 50mm
 - COLUMN COVER = 40mm
 - BEAM COVER = 35mm
 - SLAB COVER = 30mm
 - MINIMUM CONCRETE GRADE: C30
 - MINIMUM TIMBER GRADE = C30



STRUCTURAL TIMBER DETAILS

SCALE - 1:20



RC COLUMN DETAILS

SCALE - 1:20

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M. HONEY SEASON, 2ND FLOOR,
FULOONIYA GOALHI, MALE',
REPUBLIC OF MALDIVES
anova.mv@gmail.com
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PROJECT NAME
SINGLE STOREY BANDHARU HUT

LOCATION
LH. NAIFARU

DRAWING TITLE
STRUCTURAL DETAILS - 1

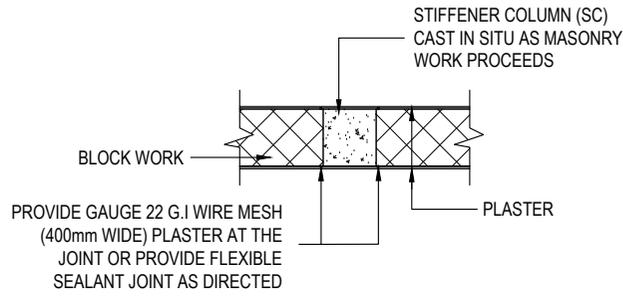
- DESIGN STAGE
- CONCEPTUAL DESIGN
 - BUILDING APPROVAL
 - CONSTRUCTION DRAWINGS
 - AS-BUILT DOCUMENTATION

DRAWN BY: NIHAD | DESIGN BY: NAFIU | CHECKED BY: HANEEF

DISCIPLINE: STRUCTURAL | SHEET SIZE: A4 | SCALE: 1:20

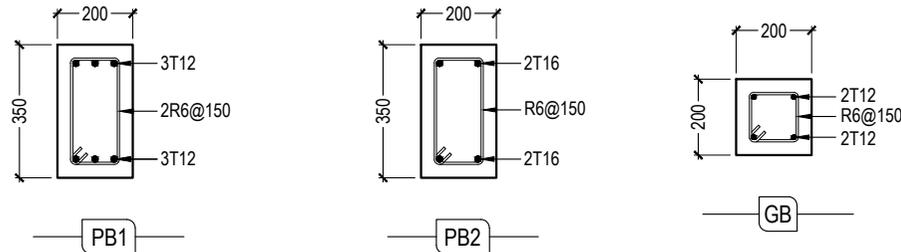
REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER S-5.01
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STIFFENER TO WALL DETAIL

SCALE - 1:100



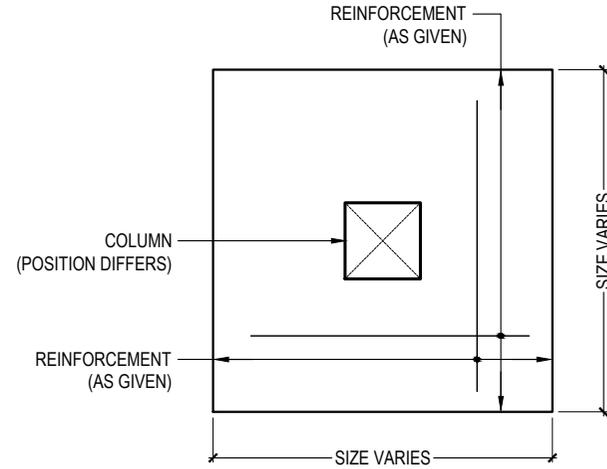
FOUNDATION BEAM DETAILS

SCALE - 1:20

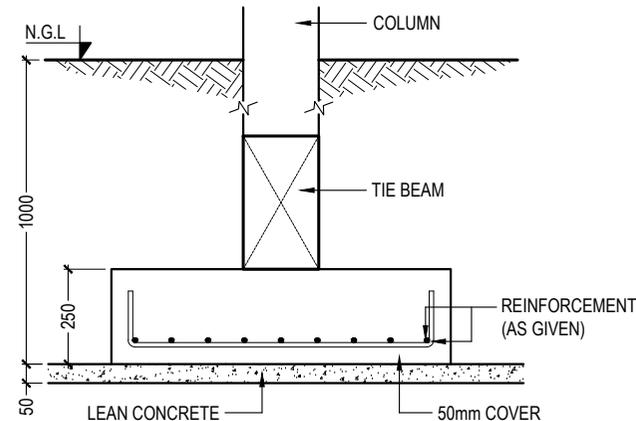
TYPE	DIMENSIONS	REINFORCEMENT
F1	1000mm x 1000mm x 250mm	T10@150C/C B/W (TOP & BOT)
F2	850mm x 850mm x 250mm	T10@150C/C B/W (BOT)
F3	600mm x 600mm x 250mm	T10@150C/C B/W (BOT)

FOUNDATION DEPTH = 1.00 m BELOW NATURAL GROUND LEVEL

FOOTING SCHEDULE



TYPICAL PLAN VIEW OF FOUNDATION PAD



TYPICAL SECTION OF FOUNDATION PAD

TYPICAL FOOTING DETAIL

SCALE - 1:20

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FULOONIYA GOALHI, MALE',
REPUBLIC OF MALDIVES
anova.mv@gmail.com
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PROJECT NAME
SINGLE STOREY BANDHARU HUT

LOCATION
LH. NAIFARU

DRAWING TITLE
STRUCTURAL DETAILS - 2

DESIGN STAGE

- CONCEPTUAL DESIGN
- BUILDING APPROVAL
- CONSTRUCTION DRAWINGS
- AS-BUILT DOCUMENTATION

DRAWN BY
NIHAD

DESIGN BY
NAFIU

CHECKED BY
HANEEF

DISCIPLINE
STRUCTURAL

SHEET SIZE
A4

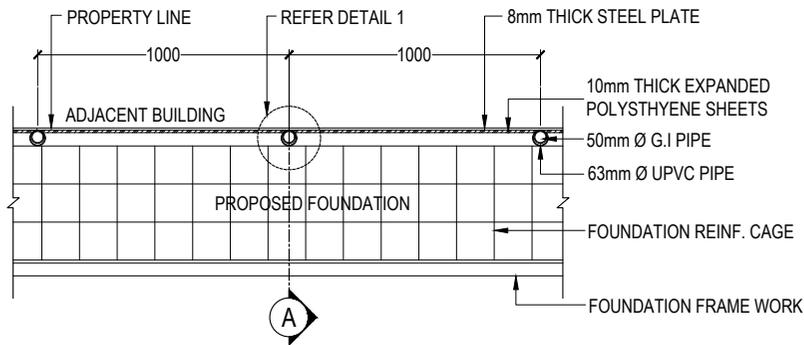
SCALE
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REV	DESCRIPTION	DATE

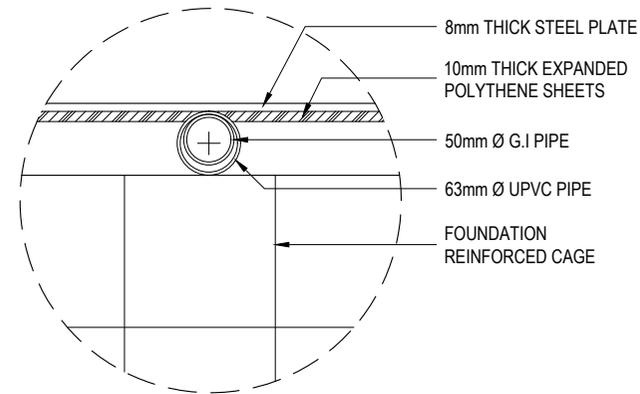
FIRST EMISSION
NOVEMBER 01, 2023

DRAWING NUMBER
S-5.02

UPDATE



SHORING DETAIL PLAN VIEW



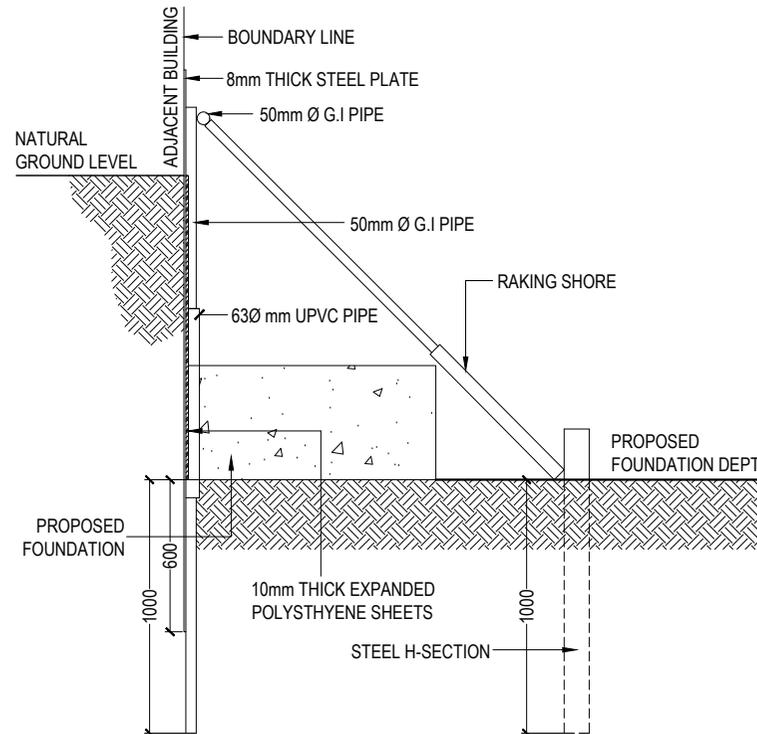
DETAIL - 1

METHOD OF PROTECTING ADJACENT STRUCTURES DURING EXCAVATION FOR FOUNDATION

- BEFORE THE LEVEL OF EXCAVATION REACHES THE BOTTOM OF THE ADJACENT FOUNDATION, PLACE THE STEEL PLATE AGAINST THE ADJACENT PROPERTY AND DRIVE THE UPRIGHT G.I PIPES (WITH THE UPVC SLEEVES) INTO THE GROUND.
- DRIVE THE STEEL PLATES 400-500 mm INTO THE GROUND
- EXCAVATE ANOTHER 300mm DEEPER.
- DRIVE THE STEEL PLATE ANOTHER 300mm DEEPER.
- FOLLOW THIS PROCEDURE UNTIL THE REQUIRED DEPTH (AS SHOWN IN THE DIAGRAM) IS REACHED.
- PROP THE G.I PIPES USING WALING AND RAKING SHORES AS SHOWN IN THE DIAGRAM.
- POUR THE FOUNDATION.
- AFTER 3 DAYS REMOVE THE UPRIGHT G.I PIPES AND PLACE THE WALING AGAINST THE STEEL SHEET, USING RAKING SHORES AS BEFORE.
- GROUT THE SPACE INSIDE UPVC PIPES.
- WHILE BACKFILLING, REMOVE STEEL SHEETS AND RAKING SHORES.

NOTE

STEEL PLATES MAY REQUIRE STIFFENING WITH WELDED ANGLES IN BOTH DIRECTIONS. EXCAVATION & SHORE PROTECTION MUST PROCEED IN PORTIONS, DECIDED BASED ON SITE CONDITIONS FOR MAXIMUM SAFETY & PROTECTION.



SECTION - A

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M. HONEY SEASON, 2ND FLOOR,
FULOONIYA GOALHI, MALE',
REPUBLIC OF MALDIVES
anova.mv@gmail.com
757 0070
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PROJECT NAME
SINGLE STOREY BANDHARU HUT

LOCATION
LH. NAIFARU

DRAWING TITLE
FOUNDATION PROTECTION METHOD

DESIGN STAGE
 CONCEPTUAL DESIGN
 BUILDING APPROVAL
 CONSTRUCTION DRAWINGS
 AS-BUILT DOCUMENTATION

DRAWN BY NIHAD	DESIGN BY NAFIU	CHECKED BY HANEEF
DISCIPLINE STRUCTURAL	SHEET SIZE A4	SCALE NTS

REV	DESCRIPTION	DATE

FIRST EMISSION NOVEMBER 01, 2023	DRAWING NUMBER S-5.03
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FOUNDATION PROTECTION METHOD

NTS