

ARCHITECTURAL DRAWING FWC & MHL OFFICE BUILDING PROJECT IN MALALAI NATIONAL AND SPECIALIZED HOSPITAL IN KABUL - AFGHANISTAN



YEAR: 2023

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GENERAL NOTES:

1. GENERAL, Architectural

- 1.1) These General Notes are instructions to the Contractor and apply generally to all the work unless more specific information is shown in drawings or written in the specifications, standards and/or contracts.
- 1.2) All construction works shall be in accordance with the most current DWG’s, spec’s and standards as modified by the Architect/Engineer.
- 1.3) An approved set of plans shall be maintained on the job site at all times.
- 1.4) All works shall be conform to the best practice of each trade. Unless shown or noted otherwise, construction details or practices are common to the standard of the trade.
- 1.5) All works shall be conform to the applicable codes and authority rules.
- 1.6) The Contractor shall obtain the necessary permits required for the works shown on these drawings prior to the start of the construction.
- 1.7) The Contractor shall locate and uncover all the underground utilities in advance of the construction in order the Architect/Engineer.
- 1.8) Backfilling shall not be started until newly installed underground equipment is checked and approved by the engineers to verify their identity and their correct position.
- 1.9) Backfill shall be installed in accordance with the relevant ruling standards.
- 1.10) Disposal of/and stockpiling of excess material within the planning area shall be done in such a way that it will not create a nuisance to the ongoing works in general and the neighboring surrounding.
- 1.11) The Contractor shall not trespass beyond the project boundary lines unless a permit or written authorization has been obtained from the neighboring property owners involved.
- 1.12) Any damage on public area and/or on the clients premises caused by the ongoing project works shall be restored in its original condition, with no additional cost implication to the owners involved, as per following requirements:
- 1.12.1) All trees impacted by the ongoing construction works shall be replaced with the same size and type of tree at the same location or at a new location given by the local authorities or by the client.

1.12.2) All irrigation systems shall be restored to fully functioning status.

1.12.3) Any road or street cuts are to be coordinated with the local authorities, backfilled according standards and repaired to its original status.
- 1.13) All dimensions and levels are in millimeters (mm) unless mentioned otherwise.
- 1.14) The Contractor shall check and verify all dimensions and levels on site (both new and existing) and report discrepancies to the Architect/Engineer prior to proceeding of works.
- 1.15) The drawing shall not be scaled. Only written dimensions shall be followed. The Contractor shall request, from the Architect, necessary dimensions not shown on the drawings.
- 1.16) All Architectural drawings shall be read in conjunction with the Structural, Services drawings and specifications for proper coordination. Any discrepancies shall be brought to the attention of the Engineer.
- 1.17) All dimensions other than levels are given to structural elements. Dimensions are taken from and to centerlines of columns, beams, and other structural elements; from faces of walls and edges of openings unless shown otherwise.
- 1.18) All levels shown in the drawing are finished floor levels. Contractor shall allow adequate changes in the structural floor to achieve indicated floor levels.
- 1.19) Contractor shall submit shop drawings “For Approval” prior to fabrication where required by Architect/Engineer.


2. REFERENCE DOC’S:


- 2.1) Reference Documents as listed on the individual drawings.

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PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:
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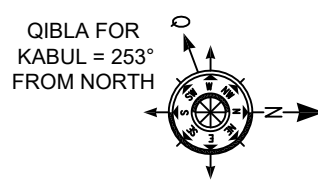
PLUMBING ENGINEER:
Ghafoor Ghani

MECHANICAL ENGINEER:
Abdul Hanan Zafarmal

DRAWING ISSUE HISTORY		
REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:
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FILE REF. / NAME:
A-001.dwg

SCALE: AS NOTED	ISSUE DATE: 07-May-2023
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DRG TITLE:
GENERAL NOTES
& TABLE OF CONTENTS

DRG REF NO: A-001	REV NO: 0
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SYMBOLS:

1. GENERAL SYMBOLS

	SECTION ARROW TOP - Section Identification letter BOTT - Dwg on which Section is drawn
	VIEW ARROW TOP - View Identification letter BOTT - Dwg on Which View is drawn
	DETAIL TOP - Detail Identification number BOTT - Dwg on with Detail is drawn
	GRID HOR - Grid Identification letter VERT - Grid Identification number (NOTE: When multiple Bldg's add. Bldg No in front of Grid 101)
	Elevation Identification in Plan
	Elevation Identification in Section and Elevation
	Room Identification number or name
	D&W Identification number, D=door, W=window Additional Identification letter: G=Ground Floor, F=First Floor, S=Second Floor, R=Roof level

2. OTHER SYMBOLS

	STONE
	REINFORCED COLUMNS
	REINFORCED CONCRETE
	LEAN CONCRETE
	CONCRETE HOLLOW BLOCKS
	GYPSUM WALLS
	SAND / MORTAR
	GRASS
	ASPHALT, BITUMEN SURFACE
	PAVING
	RUBBLE
	COMPACTED FILL OR NATURAL GROUND

	Grid, center line
	Match line, M.L.
	Hidden, object above or beyond
	Revision cloud
	Exterior Wall Composition
	Curtain wall
	Glass Wall
	Glass Blocks
	DPC, Damp Proof Course (Membrane)
	Insulation
	Lockers
	Cabinet, built in closet
	Lighting fixture, recessed rectangular
	Lighting fixture, recessed square
	Lighting fixture, recessed round
	Diffuser, pulsion
	Diffuser, extraction
	Smoke detector
	Loudspeaker, intercom

	lift Usage: BDL: Bed lift GDL: Goods lift PSL: Passengers lift HDL: Hydraulic lift
	Entry, Exit
	Single leaf door
	Hinge side
	Door sash in elevation
	Sash opening direction
	Hinge side
	Staircase Indication Up
	No. of Steps

	Ramp
	Slope Direction
	Floor level drop
	Folding door or gate
	Double leaf door
	Sliding or automatic door
	Window
	Reference Point
	Tree
	Exsisting Tree
	Cooker
	Refrigerator
	Dish Washer
	Washing machine
	Kitchen sink, double
	Kitchen sink, single
	Service sink
	Wash basin, Hand wash basin
	Shower
	Bath Tub

	Floor Drain
	WC, Water Closet
	Wall Mounted Water Closet
	Squat Pan
	Urinal
	Shaft, duct

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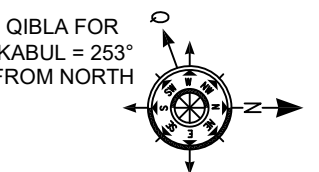
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DRG TITLE:

SYMBOLS

DRG REF NO:

A-002

REV NO:

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A3 / LTSCALE: 1 / monochrome.ctb / 28-Oct-23 / 1:100 / Nasrat / HP DeskJet 1220C.pc3

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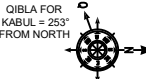
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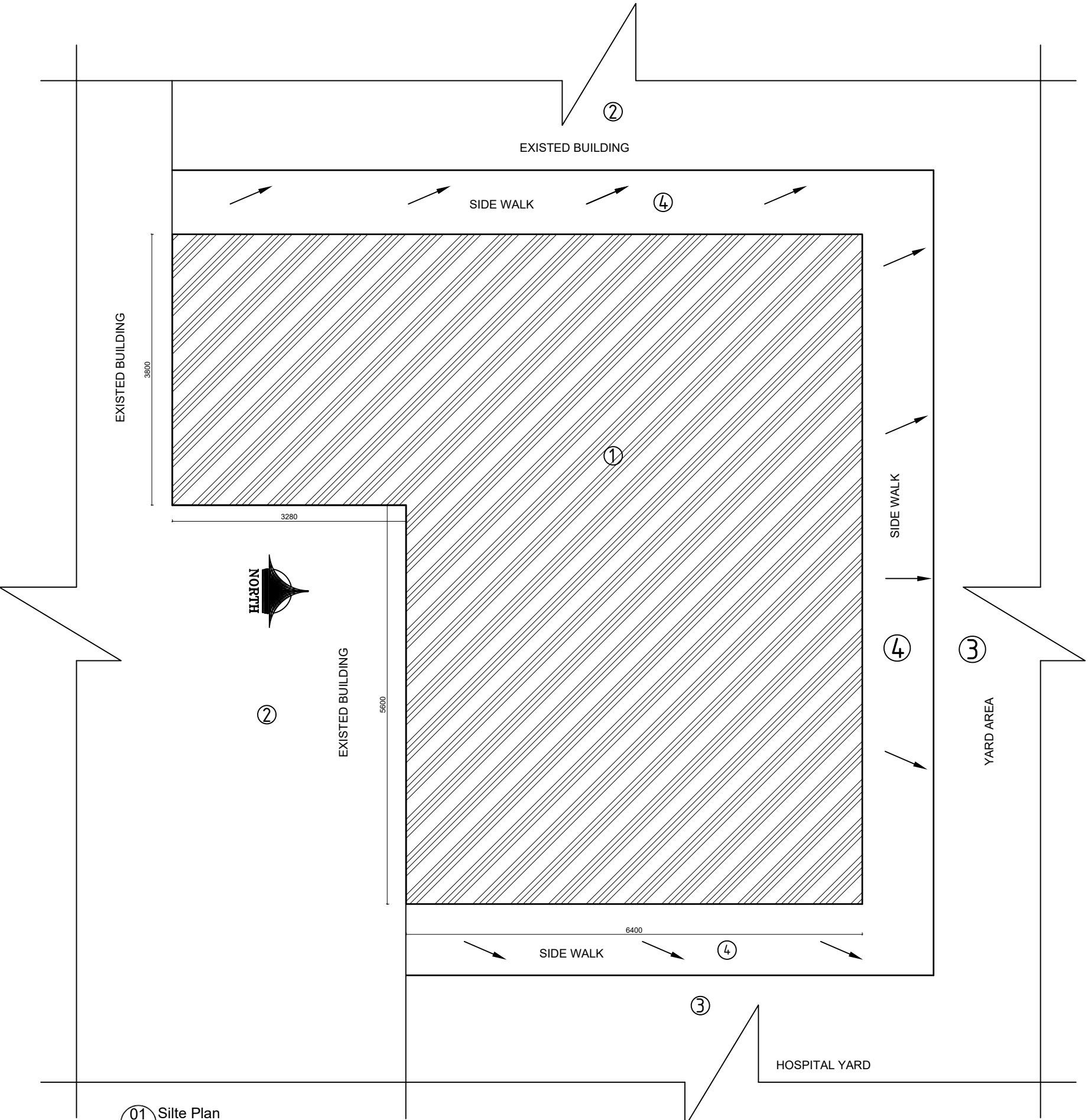
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DRG TITLE:
SITE PLAN

DRG REF NO: A-101	REV NO: 0
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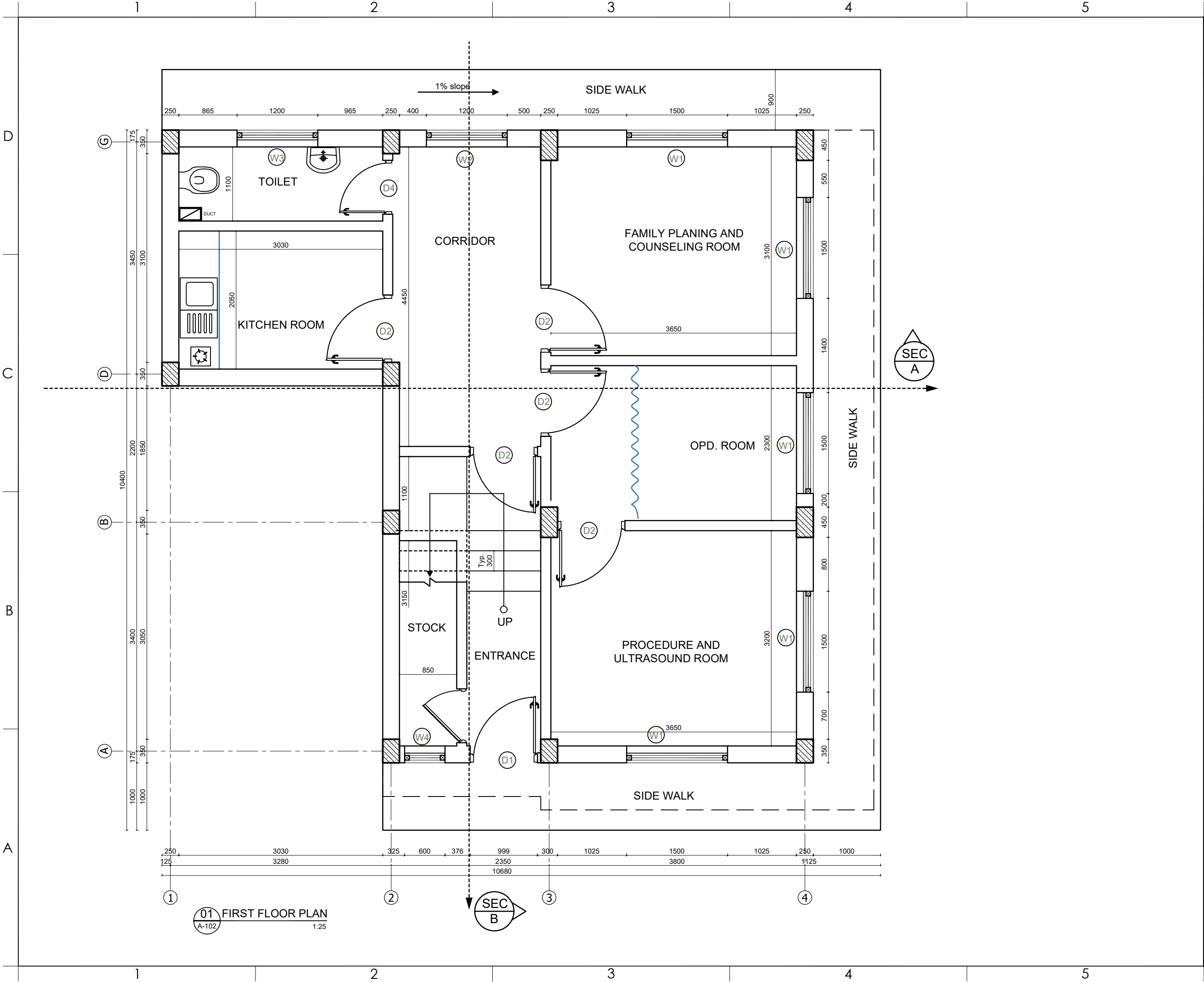
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01 Silte Plan
A-101 1:25

① ساحه مورد اعمار ساختمان
② تعمير موجوده
③ حویلی
④ راه رو کانسکریټي موجوده

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KABUL = 253°
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A-102.dwg

SCALE:
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DRG TITLE:
FIRST FLOOR PLAN

ISSUE DATE:
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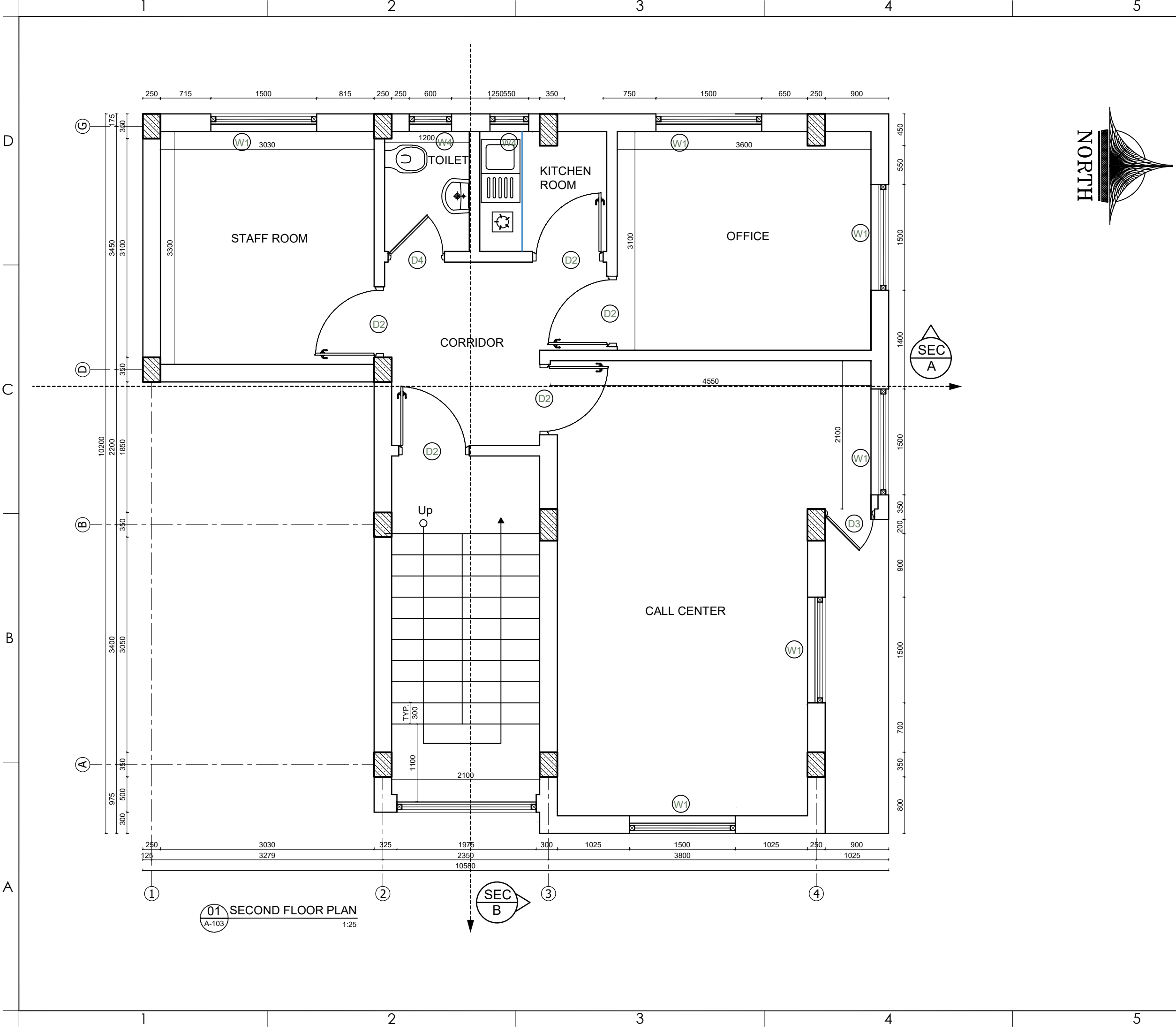
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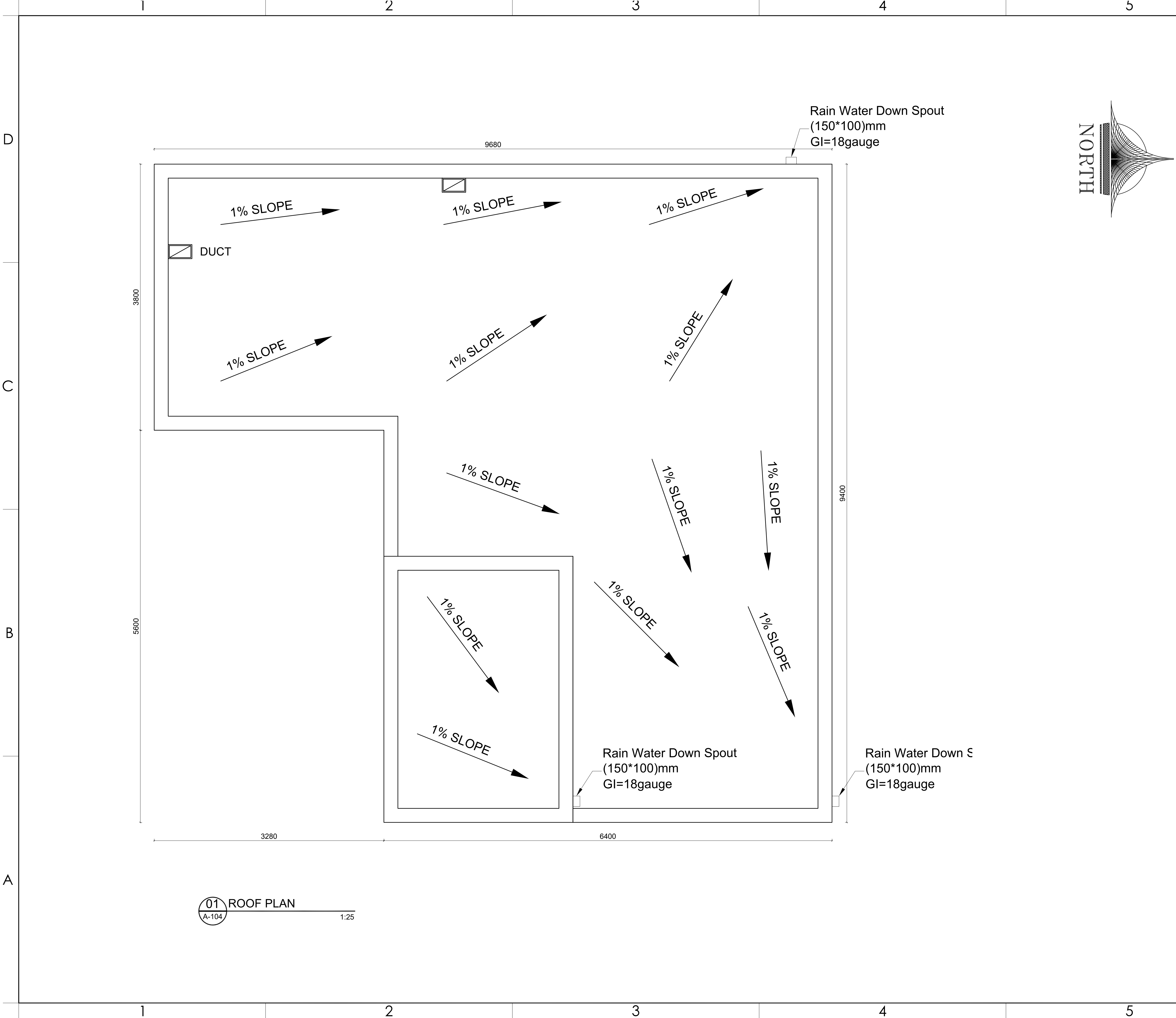
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DRG TITLE:
SECOND FLOOR PLAN

DRG REF NO: A-103	REV NO: 0
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01 ROOF PLAN
A-104 1:25

PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
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DRG TITLE: ROOF PLAN	

DRG REF NO: A-104	REV NO: 0
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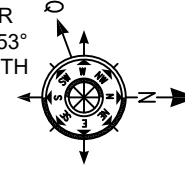
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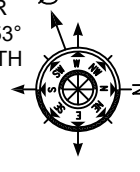


PROJECT:		
AFGHAN FAMILY GUIDANCE ASSOCIATION FWC & MHL PROJECT IN MALALAI NATIONAL SPECIALIZED HOSPITAL IN KABUL- AFGHANISTAN		
OWNER: AFGHAN FAMILY GUIDANCE ASSOCIATION FOCAL NAME: E-MAIL: CELL #:		
		
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Abdul Hanan Zafarmal		
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FILE REF. / NAME:		
A-105.dwg		
SCALE: AS NOTED	ISSUE DATE: 07-May-2023	
DRG TITLE:		
WINDOW SPECIFICATION		



Name	With	Height	Material	Number
D1	1000	1900	UPVC	1
D2	1000	2650	UPVC	10
D4	800	2650	UPVC	2

PROJECT: AFGHAN FAMILY GUIDANCE ASSOCIATION FWC & MHL PROJECT IN MALALAI NATIONAL SPECIALIZED HOSPITAL IN KABUL- AFGHANISTAN		
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DRG TITLE: DOOR SPECIFICATION		
DRG REF NO: A-106	REV NO: 0	
SHEET 08 of 13		

PROJECT:
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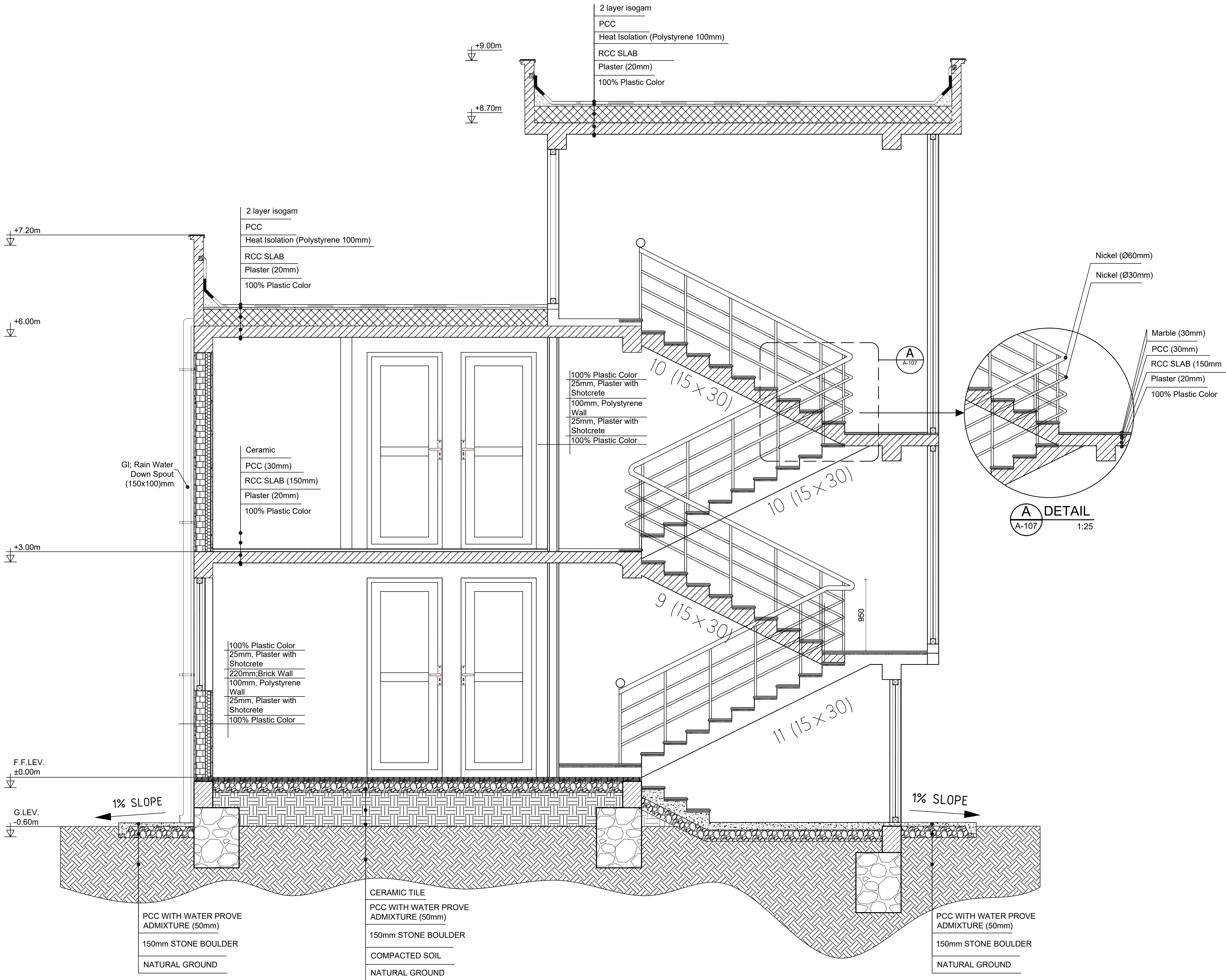
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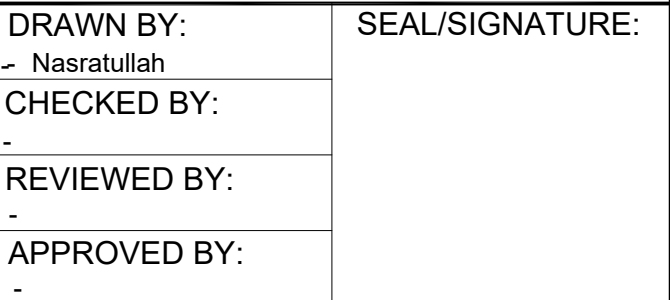
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A-107
SHEET 09 of 13
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01 SECTION B
A-107 1:25

PROJECT NO / KEY:

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SECTION

A-108	0
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01 EAST VIEW
A-109 1:25

PROJECT:
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DRG TITLE:

EAST VIEW

DRG REF NO:

A-109

REV NO:

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SHEET 11 of 13

D

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B

A



01 WEST VIEW
A-110 1:25

PROJECT:
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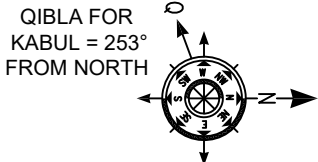
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REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:
FOR TENDER ONLY

KEYPLAN:



DRAWN BY: - Nasratullah	SEAL/SIGNATURE:
CHECKED BY: -	
REVIEWED BY: -	
APPROVED BY: -	

FILE REF. / NAME: A-110.dwg	
SCALE: AS NOTED	ISSUE DATE: 07-May-2023
DRG TITLE: WEST VIEW	

DRG REF NO: A-110	REV NO: 0
SHEET 12 of 13	

DO NOT SCALE DRAWING - ALL SURVEY AND DEMARCATIONS TO BE BASED ON PRINTED DIMENSIONS

• DRAWING NOT TO BE USED FOR CONSTRUCTION UNTIL STAMPED & SIGNED BY CONSULTANTS AND ISSUED FOR CONSTRUCTION

• CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS & OMISSIONS TO THE CONSULTANTS

PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:
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ARCHITECT:
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STRUCTURAL ENGINEER:
Nasratullah Nasrat

ELECTRICAL ENGINEER:
Abdul Hanan Zafarmal

PLUMBING ENGINEER:
Ghafoor Ghani

MECHANICAL ENGINEER:
Abdul Hanan Zafarmal

DRAWING ISSUE HISTORY		
REV	DESCRIPTION	DATE

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DRAWN BY: - Nasratullah	SEAL/SIGNATURE:
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APPROVED BY: -	

FILE REF. / NAME: A-111.dwg	
SCALE: AS NOTED	ISSUE DATE: 07-May-2023
DRG TITLE: NORTH VIEW	

DRG REF NO: A-111	REV NO: 0
SHEET 13 of 13	



01 NORTH VIEW
A-111 N/S

**STRUCTURAL DRAWING
FWC & MHL OFFICE BUILDING PROJECT IN
MALALAI NATIONAL AND SPECIALIZED
HOSPITAL IN
KABUL- AFGHANISTAN**

YEAR: 2023

D

C

B

A

GENERAL STRUCTURAL NOTES

A GENERAL

1. THE STRUCTURE IS DESIGNED TO ACT AS A STRUCTURAL UNIT UPON COMPLETION. DESIGN AND PROVIDE NECESSARY BRACING, TEMPORARY SUPPORTS, AND SHORING TO RESIST FORCES, ON THE STRUCTURE DURING CONSTRUCTION.
2. ALL DIMENSIONS ON STRUCTURAL PLANS, DETAILS AND NOTES ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
3. COORDINATE LOCATIONS OF FLOOR AND ROOF PENETRATIONS WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

B. DESIGN CRITERIA

1. BUILDING CODE _____ ASCE-7-16
2. OCCUPANCY CATEGORIES
- a. Office Building _____ II
3. DESIGN LIVE LOADS
- A. FLOOR LOADS
- a. ASSEMBLY AREAS _____ 4.79 kN/m²
- b. CORRIDORS _____ 3.00 kN/m²
- c. OFFICE AREAS _____ 2.39 kN/m²
- d. STAIRS AND LANDINGS _____ 3.00 kN/m²
- e. PARTITIONS (NON-REDUCIBLE LIVE LOAD) _____ 0.96 kN/m²
- B. MIN. ROOF LIVE LOAD _____ 0.96 kN/m²
- C. SNOW LOAD
- a. GROUND SNOW LOAD _____ 1.25 kN/m²
- b. EXPOSURE CATEGORY _____ D
- c. SNOW EXPOSURE FACTOR _____ 1.0
- d. THERMAL FACTOR _____ 1.0
- e. SNOW IMPORTANCE FACTOR
- (1) TYPICAL, U.N.O. _____ 1.0
- (2) GENERATOR BUILDING AND MEDICAL CLINIC _____ 1.1
- (3) FIRE STATION _____ 1.2
- f. FLAT ROOF SNOW LOAD _____ 1 kN/m²
- g. ROOF SLOPE FACTOR _____ 1.0
- D. WIND LOAD
- a. BASIC WIND SPEED _____ 0.00 km/h
- b. WIND IMPORTANCE FACTOR
- OFFICE _____ 1.0
- c. EXPOSURE CATEGORY _____ D
- d. INTERNAL PRESSURE COEFFICIENT _____ (+-) 0.18
- E. SEISMIC LOAD
- a. SEISMIC IMPORTANCE FACTOR
- Office Building _____ 1.0
- b. SHORT PERIOD SPECTRAL RESPONSE ACCELERATION (S_s) _____ 1.28g
- c. 1 SECOND PERIOD SPECTRAL RESPONSE ACCELERATION (S₁) _____ 0.51g
- d. SITE CLASS _____ D
- e. SHORT PERIOD SPECTRAL RESPONSE COEFFICIENT (S_{0s}) _____ 0.8533g
- f. 1 SECOND PERIOD SPECTRAL RESPONSE ACCELERATION (S₀₁) _____ 0.51g
- g. SEISMIC DESIGN CATEGORY _____ D
- h. STRUCTURAL SYSTEM: SPECIAL CONCRETE MOMENT FRAMES
- i. RESPONSE MODIFICATION FACTOR R _____ 5
- j. DEFLECTION AMPLIFICATION FACTOR C_d _____ 4.5
- k. OVER STRENGTH FACTOR Ω_o _____ 3
4. DESIGN DEAD LOADS
- A. SELF WEIGHT OF MATERIAL
- B. SUPERIMPOSED DEAD LOADS
- a. COLLATERAL ROOF LOAD _____ 3.179 kN/m²
- b. COLLATERAL ELEVATED FLOOR LOAD _____ 1.76 kN/m²
- c. MECHANICAL/PLUMBING/ELECTRICAL _____ 0.15 kN/m²
- d. MISCELLANEOUS _____ 0.15 kN/m²

C. CONCRETE

1. ALL CONCRETE FOR STRUCTURES SHALL BE AIR-ENTRAINED CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 28 MPa AT 28 DAYS EXCEPT AS NOTED. FORMED, ELEVATED CONCRETE SLABS AND INTERIOR SLABS-ON-GRADE SHALL NOT BE AIR-ENTRAINED.
2. REINFORCEMENT BARS SHALL BE NEW BILLET STEEL CONFORMING TO A.S.T.M. DESIGNATION A615, GRADE 60, DEFORMED.
3. WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. DESIGNATION A185.
4. CONCRETE DESIGN IS IN CONFORMANCE WITH 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (A.C.I. 318M-14).
5. DETAIL, FABRICATE AND ERECT REINFORCEMENT BARS, INCLUDING BAR SUPPORTS, SPACERS, ETC. IN ACCORDANCE WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT." (A.C.I. 315-99).
6. UNLESS SHOWN OTHERWISE, BARS AT SPLICES SHALL BE LAPPED IN ACCORDANCE WITH THE TABLE "REINFORCING STEEL LAP SPLICES AND EMBEDMENTS" SHOWN ON THIS SHEET. ALL SPLICES SHALL BE CLASS B UNLESS NOTED OTHERWISE.
7. WATERSTOPS SHALL BE RIBBED POLYVINYL CHLORIDE, 150mm x 10mm IN CONSTRUCTION JOINTS AND 225mm x 10mm W/CENTER BULB IN EXPANSION JOINTS UNLESS SHOWN OTHERWISE.
8. CONCRETE COVER FOR REINFORCEMENT BARS SHALL CONFORM TO THE FOLLOWING, UNLESS INDICATED OTHERWISE ON THE DRAWING.
- A. UNFORMED SURFACES IN CONTACT WITH GROUND _____ 75mm
- B. FORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO WEATHER, AND ALL WALLS _____ 50mm
- C. COLUMNS, PIERS _____ 50mm
- D. EXTERIOR EXPOSURE, TOP OF SLABS _____ 15mm
- E. INTERIOR EXPOSURE, TOP OF SLABS _____ 15mm
- F. UNDERSIDE OF SLABS EXPOSED TO WATER _____ 38mm
- G. TOP OF SLABS EXPOSED TO WATER _____ 51mm

9. CHAMFER EXPOSED CONCRETE EDGES 19mm X 19mm UNLESS NOTED OTHERWISE.
10. CHAMFER EDGES UNDER ALL EXTERIOR MASONRY WALLS 19mm X 19mm.
11. CONCRETE PADS FOR EQUIPMENT ARE BY THE MECHANICAL, ELECTRICAL, PLUMBING CONTRACTOR UNLESS INDICATED ON THE STRUCTURAL DRAWINGS.

REINFORCING STEEL LAP SPLICES AND EMBEDMENTS

BAR SIZE	CLASS 'B' SPLICE LENGTH		MIN. EMBEDMENT LENGTH AND CLASS 'A' SPLICE	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
10	400	400	305	305
12	468	365	360	280
14	550	425	420	325
16	760	575	585	440
18	960	715	735	550
20	1030	795	790	610
22	1145	860	880	660
24	1250	965	960	740

- NOTES:
1. TABLE BASED ON A.C.I. 318 WITH F'C = 28MPa AND FY = 414MPa
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 300mm DEPTH OF CONCRETE CAST BELOW THE REINFORCEMENT.
3. HORIZONTAL WALL REINFORCEMENT IS CONSIDERED A TOP BAR.
12. FOR LOCATION OF FLOOR DRAINS, SEE PLUMBING AND ARCHITECTURAL DRAWINGS. SLOPE FLOOR TO DRAIN.
13. FOR EXTENTS OF RECESSED SLAB AREAS NOT DETAILED IN THE STRUCTURAL PLANS, SEE ARCHITECTURAL DRAWINGS. SEE DETAIL 1/GEN-S-002 FOR TYPICAL FLOOR RECESS DETAIL.
14. LATERAL LOADS SHALL NOT BE APPLIED TO ANY WALL PRIOR TO ACHIEVING THE 28 DAY CONCRETE COMPRESSIVE STRENGTH. ALL SUPPORTING FLOORS AND SLABS AT TOP OF WALLS MUST ALSO BE IN PLACE.
15. BAR SIZE DESIGNATION DENOTES DIAMETER OF BAR IN MILLIMETERS.
16. REQUIREMENT FOR COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.1-90 BASED ON ACE318-08 SECTION 5.12 3.24
17. REQUIREMENT FOR HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305R-99 BASED ON ACI 318-08 SECTION 5.12.

D. STRUCTURAL STEEL

1. STRUCTURAL STEEL WIDE FLANGE BEAMS, COLUMNS, AND MISCELLANEOUS FRAMING MEMBERS SHALL CONFORM TO A.S.T.M. A992/A992M GRADE 345, OR A.S.T.M. A572/A572M GRADE 345.
2. PLATES, BARS, AND ANGLES SHALL CONFORM TO ASTM A36/A36M UNLESS NOTED OTHERWISE.
3. STEEL ANGLES FOR SHEAR (WEB) CONNECTIONS BEAM-TO-BEAM AND BEAM-TO-COLUMN SHALL CONFORM TO ASTM A36/A36M.
4. STRUCTURAL TUBING SHALL CONFORM TO A.S.T.M. A500 GRADE B.
5. STRUCTURAL PIPE SHALL CONFORM TO A.S.T.M. A501.
6. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST A.I.S.C. CODES AND SPECIFICATIONS. INCLUDING THE A.I.S.C. CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS. ALLOWABLE STRESS DESIGN (ASD) SHALL BE USED TO DESIGN AND DETAIL ALL CONNECTIONS.
7. SHOP CONNECTIONS SHALL BE MADE WITH HIGH-STRENGTH BOLTS OR BY WELDING. FIELD CONNECTIONS SHALL BE MADE WITH HIGH-STRENGTH BOLTS, EXCEPT WHERE WELDING IS INDICATED ON THE DRAWINGS. HIGH-STRENGTH BOLTS SHALL CONFORM TO A.S.T.M. DESIGNATION A325 BEARING TYPE CONNECTION WITH THREADS INCLUDED IN SHEAR PLANE UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE 19mm DIAMETER UNLESS NOTED OTHERWISE.
8. CONNECTIONS NOT DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO SUPPORT THE LARGER VALUE OF THE FOLLOWING:
- ONE-HALF THE TOTAL FACTORED UNIFORM LOAD AS GIVEN IN THE A.I.S.C. MANUAL FOR THE SPAN, SHAPE AND STEEL SPECIFIED.
 - DESIGN REACTION LISTED ON THE DRAWINGS.
9. ALL WELD SIZES, NOT INDICATED OR THOSE TO BE DESIGNED FOR MEMBER LOADS GIVEN ON THE DRAWINGS, SHALL COMPLY WITH THE LATEST A.W.S. D1.1 BUT IN NO CASE SHALL WELD SIZE BE LESS THAN 5mm.
10. ALL STEEL FOR ANCHOR RODS SHALL CONFORM TO A.S.T.M. F1554 GRADE 36 UNLESS NOTED OTHERWISE.
11. USE NON-SHRINK, NON-METALLIC GROUT UNDER BASE PLATES.
12. NATURAL MILL CAMBER OF BEAMS SHALL BE PLACED UP.
13. THE STRUCTURAL BEAMS ARE NOT DESIGNED FOR USE AS LIFT BEAMS.
14. ADEQUATE TEMPORARY BRACING SHALL BE PROVIDED DURING CONSTRUCTION.
15. MINIMUM THICKNESS OF STRUCTURAL STEEL SHALL BE 6mm.
16. MILL EACH END OF COLUMN SECTION EXCEPT FOR FREE END OF ROOF SECTION COLUMN.
17. PAINT AS PER SPECIFICATIONS.
18. ALL BENT CLOSURE PLATES INDICATED ON CONTRACT DRAWINGS SHALL BE MINIMUM 10mm THICK.
19. PROVIDE 6mm THICK CAP PLATE WELDED ALL AROUND AT THE TOP OF HSS COLUMNS OR POSTS.
20. BEAMS OR JOISTS ARE TO BE EQUALLY SPACED BETWEEN COLUMN LINES UNLESS OTHERWISE NOTED.

01

S-001

GENERAL STRUCTURAL NOTES/ABBREVIATION

NTS

ABBREVIATIONS

ADDL	ADDITIONAL
ALT	ALTERNATE
AL	ALUMINUM
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
BETW	BETWEEN
BM	BEAM
BRG	BEARING
BOT	BOTTOM
C/C	CENTER TO CENTER
CIR	CIRCULAR
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CMU	CONCRETE MASONRY UNIT
CONSTR	CONSTRUCTION
CONTR	CONTRACTION
DTL	DETAIL
DIA	DIAMETER
DN	DOWN
DWGS	DRAWINGS
EA	EACH
EF	EACH FACE
EL	ELEVATION
EMBED	EMBEDMENT
OC	ON CENTER
OPNG	OPENING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
PL	PLATE
PROJ	PROJECTION
REINF	REINFORCEMENT
REQD	REQUIRED
SH	SHEET
SIM	SIMILAR
SPA	SPACE
SQ	SQUARE
SS	STAINLESS STEEL
STIFF	STIFFENER
STL	STEEL
SYMM	SYMMETRICAL
T/	TOP OF
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WWF	WELDED WIRE FABRIC
WF	WIDE FLANGE
W/	WITH
W.P.	WORK POINT
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EW	EACH WAY
FRP	FIBERGLASS REINFORCED PLASTIC
FTG	FOOTING
H	HIGH
HCA	HEADED CONCRETE ANCHOR
HPT	HIGH POINT
INV	INVERT
JT	JOINT
LAND	LANDING
LG	LONG
LLV	LONG LEG VERTICAL
LPT	LOW POINT
MFR	MANUFACTURER
MATL	MATERIAL
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
NO	NUMBER
TYP	TYPICAL
UNO	UNLESS OTHERWISE
EW	EACH WAY

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ABDUL HANAN ZAFARMAL

DRAWING ISSUE HISTORY		
REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:
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KEYPLAN:



DRAWN BY: - HAMIDULLAH	SEAL/SIGNATURE:
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FILE REF. / NAME: S-001.dwg	
SCALE: AS NOTED	ISSUE DATE: 07-May-2023

DRG TITLE:
**GENERAL STRUCTURAL NOTES
& ABBREVIATION**

DRG REF NO: S-001	REV NO: 0
SHEET 02 of 15	

- A. PLATE SIZES ARE GIVEN IN MILLIMETERS, THUS 200X150X12.
- B. ROLLED STEEL SHAPES ARE INDICATED BY AISC NOTATION THUS, W6X9.
- C. ANGLE SIZES ARE GIVEN IN MILLIMETERS. THUS 100X100X6.
- D. WELDING NOTATION SIZE, LENGTH AND SPACING ARE GIVEN IN MILLIMETERS WITH SYMBOLS IN ACCORDANCE WITH AWS.
- E. BOLT SIZES ARE GIVEN IN MILLIMETERS, THUS Ø19 BOLT.

F. CONCRETE MASONRY

- 4.1 MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF THESE CONTRACT DOCUMENTS AND THE PROJECT SPECIFICATION.
- 4.2 THE SPECIFIED ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE MASONRY (f_m) ON THE NET AREA IS A MINIMUM OF 10.4 MPa.
- 4.3 PROVIDE TWO #16 BARS CONTINUOUS IN ALL MASONRY LINTELS UON ON THE SHEET. BOND BEAM REINFORCING SHALL BE CONTINUOUS AND SPACED AT A MAXIMUM OF 1200mm OC VERTICALLY. ALL BOND BEAMS SHALL BE A MINIMUM OF 200mm IN DEPTH WITH REINFORCING BEING CONTINUOUS AND HAVING STANDARD ACI HOOKS AT EACH END. PROVIDE STANDARD BAR SPLICES AS SPECIFIED.
- 4.4 FOR WALL REINFORCING SEE "MIN CMU WALL REINFORCING" DETAILS ON SHEET S10. PROVIDE STANDARD BAR SPLICES AS SPECIFIED. ALL VERTICAL REINFORCEMENT EXTENDS FULL HEIGHT OF WALL.
- 4.5 CMU CELL THAT REQUIRE VERTICAL REINFORCING BARS AS INDICATED ON THE CONTRACT DRAWINGS AND/OR SPECS SHALL HAVE REINFORCE BARS PLACED IN CENTERS OF CMU CELLS AND CONTINUOUSLY GROUTED UON.
- 4.6 PROVIDE LADDER TYPE JOINT REINFORCEMENT AT 200mm EXTERIOR, & INTERIOR ON CENTER MAXIMUM, UON MINIMUM ROD SIZE USED SHALL BE 9 GA. DEFORMED WIRE AND CONFORM TO ASTM A82M, UON.
- 4.7 PROVIDE CONTROL JOINTS AS INDICATED ON THE ARCHITECTURAL SHEET.
- 4.8 GROUT FOR MASONRY SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa AT 28 DAYS. GROUT SHALL CONFORM TO ASTM C476M. GROUT LIFTS SHALL NOT EXCEED 1400mm.
- 4.9 USE MORTAR TYPES CONFORMING TO ASTM C270M, SEE SPECIFICATIONS.
- 4.10 CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT AND CONFORM TO ASTM C90M.
- 4.11 ALL CMU CELLS, OPEN CAVITIES, AND AIR SPACES SHALL BE GROUTED TO STOP FRAGMENTS FROM MORTAR BLANST.
- 4.12 BOND BEAM REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS (UON). MAXIMUM CONTROL JOINT SPACING SHALL BE AS INDICATED ON THE ARCHITECTURAL SHEETS.
- 4.13 CONTRACTOR SHALL COORDINATE LOCATION OF ALL OPENINGS SEE ARCH, MECH, ELEC AND PLUMBING SHEETS FOR SIZE AND LOCATION OF OPENINGS.
- 4.14 MASONRY WALLS SHALL NOT BE BACK FILLED PRIOR TO THE MORTAR AND GROUT ATTAINING THEIR RESPECTIVE MAXIMUM DESIGN STRENGTHS PER SPECIFICATIONS.

G. METAL ROOF DECKING

1. ROOF DECKING SHALL CONFORM TO THE LATEST S.D.I. "STEEL DECK DESIGN MANUAL".
2. ROOF DECK SHALL BE 0.90mm THICK 38mm DEEP WIDE RIB WITH THE FOLLOWING PROPERTIES:
- F_y = 229 MPa
MIN. I = 300mm⁴
MIN. S_p = 13.4mm³
MIN. S_n = 14.0mm³
3. LIGHT GAGE FRAMING AND MECHANICAL, ELECTRICAL OR OTHER EQUIPMENT SHALL NOT BE SUSPENDED FROM OR ATTACHED TO ANY METAL ROOF DECKING.
4. THE SPACING OF WELDS AND MECHANICAL FASTENERS REQUIRED FOR SATISFACTORY ATTACHMENT OF DECK TO SUPPORTING MEMBERS SHALL BE AS NOTED IN THE SPECIFICATIONS.
5. FOR ROOF OPENINGS LARGER THAN 305mm, PROVIDE STRUCTURAL STEEL FRAMING ON ALL SIDES OF THE OPENING. FOR OPENINGS LESS THAN 305mm, SEE SPECIFICATIONS SECTION 05310 FOR REINFORCING DECK OPENINGS.

H. FOUNDATIONS/SLABS-ON-GRADE

1. FOUNDATION DESIGN IS BASED ON A MAXIMUM ALLOWABLE BEARING PRESSURE OF 98 kPa FOR INTERIOR FOUNDATIONS AND 98 kPa FOR EXTERIOR FOUNDATIONS. BEARING CAPACITY IS BASED ON GEO-TECHNICAL REPORT BY BAES.
2. BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 800mm BELOW FINISH GRADE.
3. ALL FOOTINGS SHALL BE PLACED ON 150mm (MIN) COARSE AGGREGATE LAYER.
4. PROVIDE EXCAVATION SUPPORT MEASURES SUFFICIENT TO PROTECT ADJACENT FACILITIES FROM DETRIMENTAL MOVEMENT. DESIGN, INSTALL, AND MONITOR SUPPORT MEASURES AND ADJACENT FACILITIES IN ACCORDANCE WITH THE SPECIFICATIONS.
5. PROVIDE SUFFICIENT DEWATERING MEASURES TO ALLOW ALL WORK TO PROCEED IN THE DRY. MAINTAIN GROUNDWATER LEVELS AT LEAST 610mm BELOW WORKING SUBGRADE.
6. PROOF ROLL ALL FLOOR SLAB SUBGRADES IN ACCORDANCE WITH THE SPECIFICATIONS. THE CONTRACTING OFFICER WILL OBSERVE PROOFROLLING, AND DETERMINE THE SUITABILITY OF THE SUBGRADE MATERIALS. IF DIRECTED BY THE CONTRACTING OFFICER, REMOVE UNSUITABLE MATERIALS AND REPLACE WITH SUITABLE SOIL BENEATH THE FLOOR SLABS. NOTIFY THE CONTRACTING OFFICER A MINIMUM OF 48 HOURS IN ADVANCE OF PROOFROLLING.
7. PLACE VAPOR BARRIER DIRECTLY UNDER SLABS OVER A MINIMUM OF 200mm OF COMPACTED COARSE AGGREGATE LAYER.
8. ALL STRUCTURAL FILL SHALL BE PLACED INLIFTS NOT EXCEEDING 203mm LOOSE THICKNESS AND WITHIN TWO PERCENT OPTIMM MOISTURE FOR COMPACTION. THE FILL SHOULD BE COMPACTED TO 100 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHOD (ASTM D1557).
9. INTERIOR SLABS ON GRADE JOINTS (SAW CUT OR CONSTRUCTION) SHALL BE AS STATED IN THE SPECIFICATION SECTION 03300, CONTRACTOR SHALL SUBMIT PLAN FOR APPROVAL PRIOR TO CONSTRUCTION.

LOCATION OF SOME SPLICES ARE SHOWN ON DRAWINGS, SPLICES NOT SHOWN DRAWING SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS FOR DETAILING REINFORCEMENT AND AS APPROVED BY THE CONTRACTING OFFICER.

WHEN REINFORCEMENT OF DIFFERENT SIZE SPLICES THE LAP LENGTH IS GOVERNED BY THE SMALLER BAR UNLESS NOTED OTHERWISE.

WALL AND SLAB REINFORCEMENT SPLICES ARE TO BE MADE SO THAT REQUIRED CLEARANCES ARE MAINTAINED.

TENSION LAP SPLICES		
AS PROVIDED	MAXIMUM OF % REBAR SPLICED WITHIN REQUIRED LAP LENGTH	
AS REQUIRED	50	100
EQUAL OR GREATER THAN 2	CLASS A	CLASS B
LESS THAN 2	CLASS B	CLASS B

TENSION LAP SPlice LENGTH SHALL BE AS FOLLOWS:

FOR CLASS "A" SPLICES 1.0 l_d

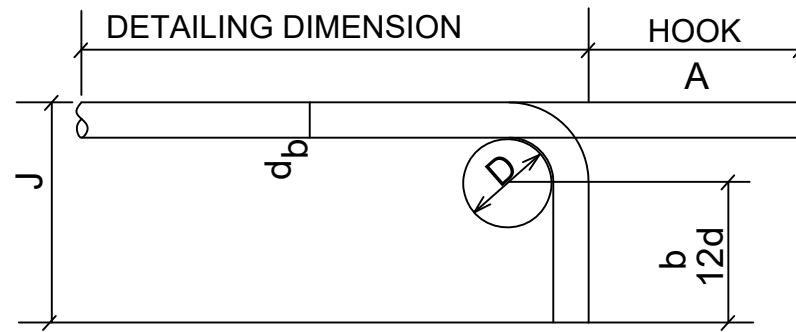
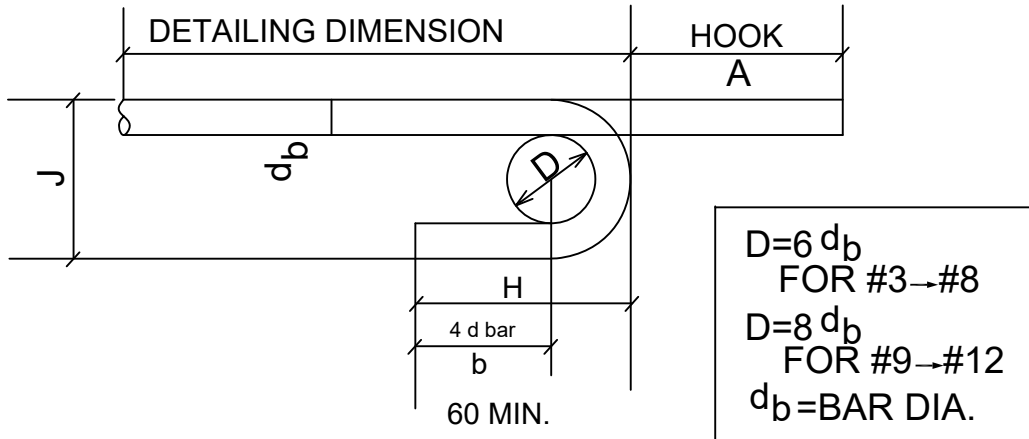
FOR CLASS "B" SPLICES 1.3 l_d

WHERE l_d IS THE BASIC TENSION DEVELOPMENT LENGTH .

CONCRETE	TYPE OF BARS	BAR SIZE										
		#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#14
28 MPA	420 MPA	400	500	600	700	800	1000	1200	1600	1800	2000	2400

EQUIVALENT REINFORCING BAR SIZE CHART

ACI DESIGNATION	METRIC DIAMETER (MM)
# 3	Ø10
# 4	Ø13
# 5	Ø16
# 6	Ø19
# 7	Ø22
# 8	Ø25
# 9	Ø29
# 10	Ø32
# 11	Ø36
# 12	Ø38
# 14	Ø43



SIZES OF 180° HOOK			
BAR SIZE	A	J	APPROX H
# 3	130	80	100
# 4	150	100	110
# 5	180	130	130
# 6	200	150	150
# 7	250	180	180
# 8	280	200	200
# 9	380	290	260
# 10	430	320	290
# 11	480	360	320
# 12	530	380	450
# 14	600	420	550

SIZES OF 90° HOOK		
BAR SIZE	A	J
# 3	140	150
# 4	190	220
# 5	230	270
# 6	270	320
# 7	320	370
# 8	370	430
# 9	420	480
# 10	470	580
# 11	520	610
# 12	570	650
# 14	620	680

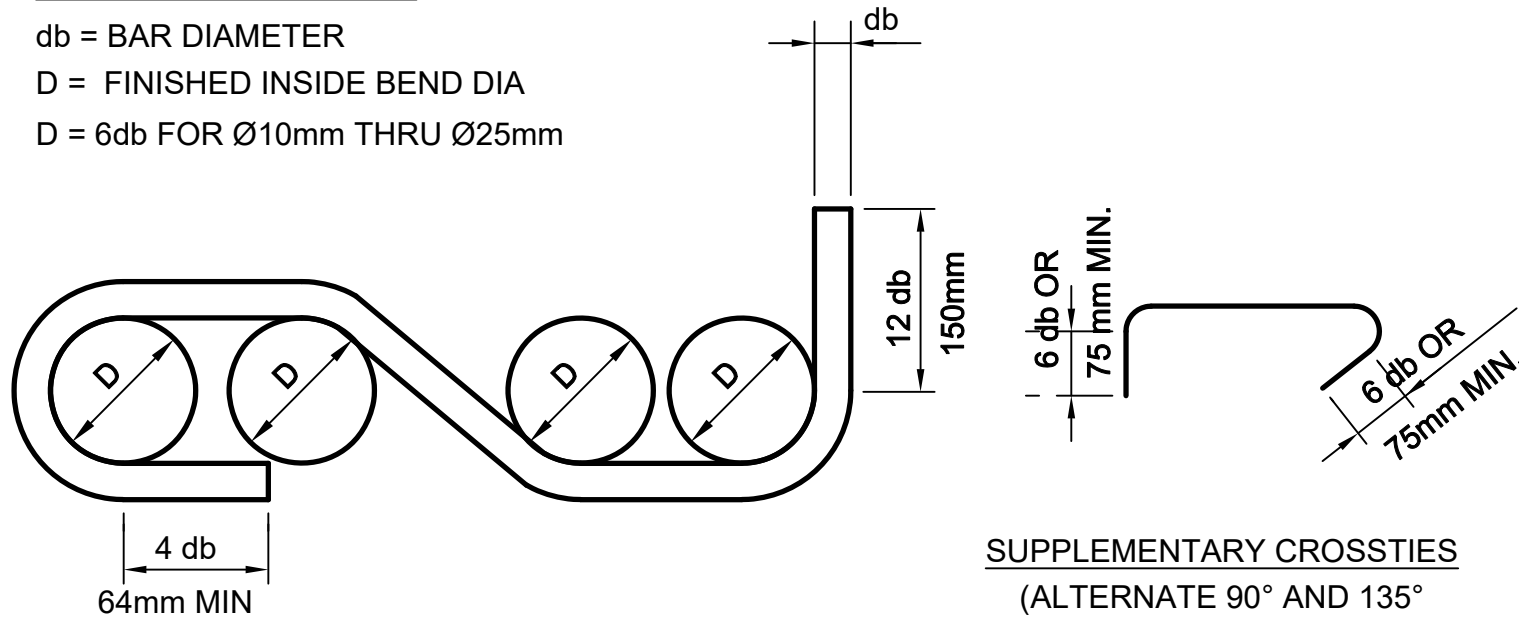
01

GENERAL STRUCTURAL NOTES & DETAILS

S-002 1:50

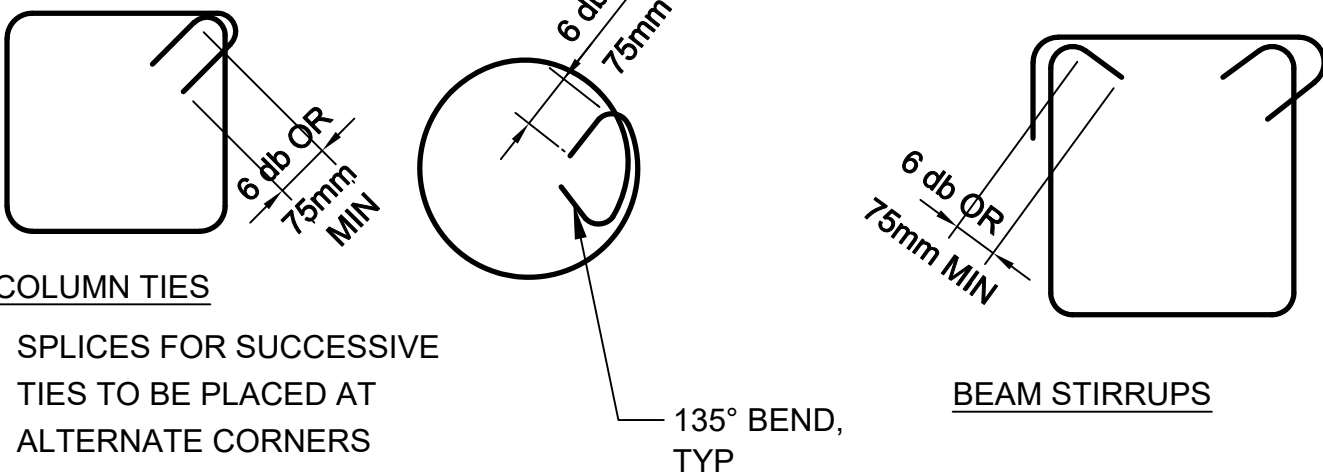
BEND DIAMETER SCHED

db = BAR DIAMETER
D = FINISHED INSIDE BEND DIA
D = 6db FOR Ø10mm THRU Ø25mm



STANDARD HOOKS AND BENDS

WALL BARS SHALL BE TIED TOGETHER



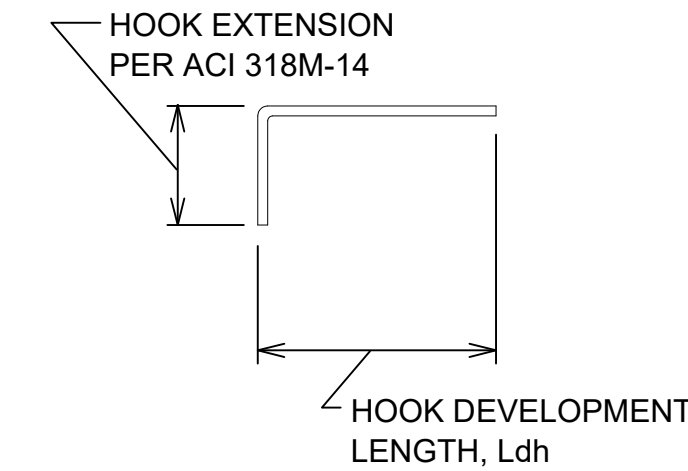
COLUMN TIES

SPLICES FOR SUCCESSIVE TIES TO BE PLACED AT ALTERNATE CORNERS

SUPPLEMENTARY CROSSTIES (ALTERNATE 90° AND 135° ENDS ON CONSECUTIVE CROSSTIES)

REINFORCEMENT BENDING DETAILS

STANDARD HOOKS IN TENSION PER (ACI 318M-14)	
HOOK DEVELOPMENT LENGTH L _{dh} (mm)	
BAR SIZE	f _c 28 MPa
#10	180
#12	250
#16	300
#20	380
#22	430
#25	480
#29	560
#32	610
#36	690



NOTES:

- CONCRETE IS NORMAL WEIGHT CONCRETE.
- BAR YIELD STRENGTH, f_y = 420 MPa
- SIDE COVER REQUIREMENTS OF ACI SECT. 12.5.3 ARE ASSUMED TO NOT BE MET.
- TIE OR STIRRUP REQUIREMENTS OF ACI SECT. 12.5.3 ARE ASSUMED TO NOT BE MET.
- REDUCTION FOR EXCESS REINFORCEMENT IS NOT TAKEN.
- HOOK DEVELOPMENT LENGTH IS VALID FOR 180° HOOKS ALSO.

CONCRETE MATERIALS SCHEDULE	
STRUCTURAL ELEMENT	f _c CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS (MPa)
SLAB-ON-GRADE/TURN-DOWN SLABS	25
FLOOR SLABS	25
ALL FOOTINGS (UON)	25
MISC. CURBS, WALLS AND PADS UNO	25
CAST-IN-PLACE LINTEL	25
CONCTETE FRAMING-BEAMS AND COLUMNS	25
NOTES: 1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE. (2400 Kg/m ³ UNO NOTED). 2. ALL CONCRETE SHALL HAVE A MAX WATER-CEMENT RATIO OF 0.45.	

PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
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KABUL- AFGHANISTAN

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FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

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PLUMBING ENGINEER:

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MECHANICAL ENGINEER:

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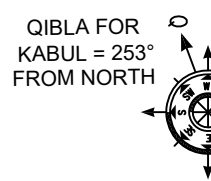
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S-002.dwg

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DRG TITLE:

GENERAL STRUCTURAL NOTES & DETAILS

DRG REF NO:

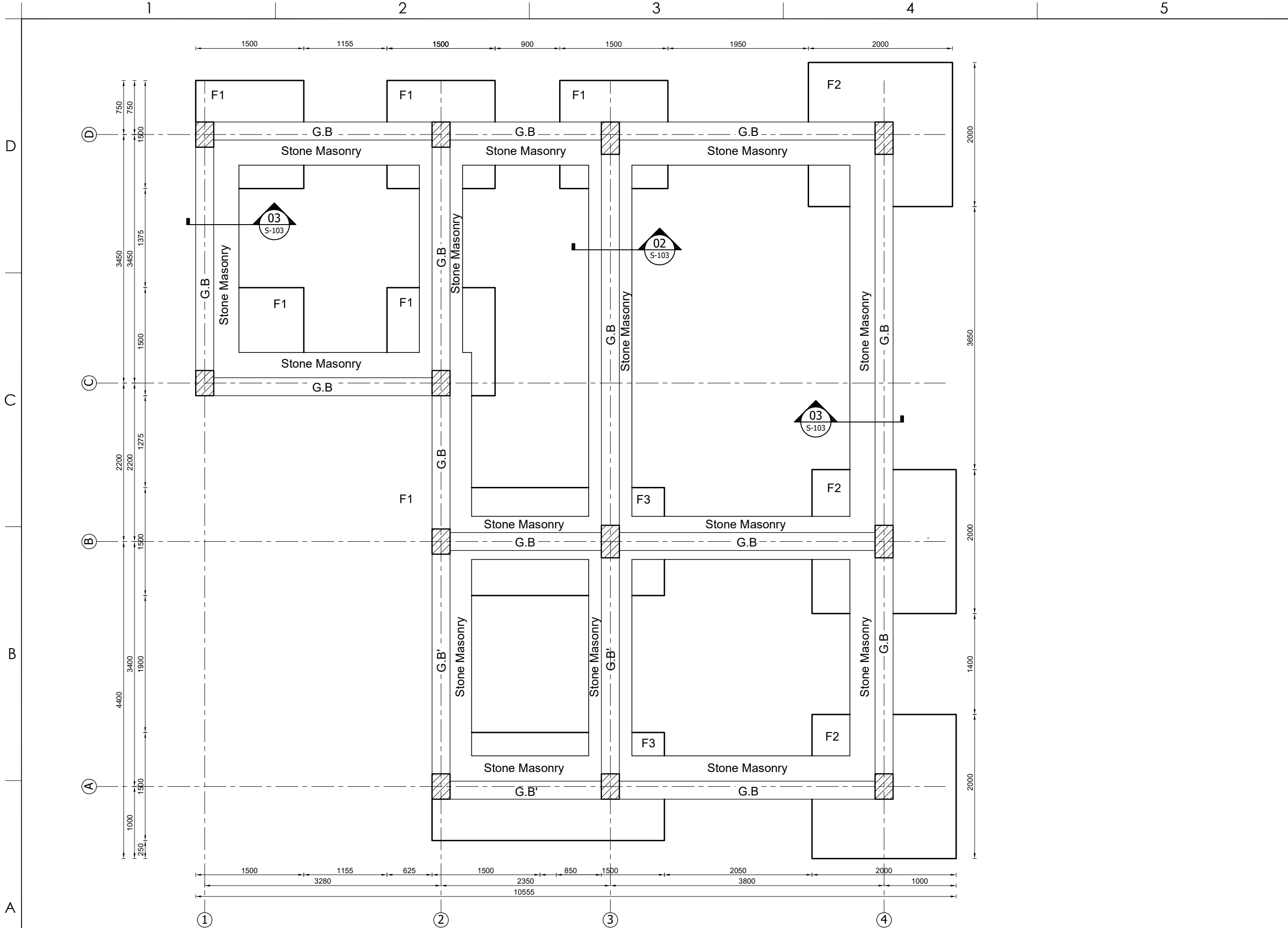
S-002

REV NO:

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01 FOOTING PLAN
S-101 SCALE: 1:25

A3 / LTSCALE 1.0000 / monochrome.ctb / 31-Oct-23 / 1:100 / Nasrat / HP Deskjet 1220C.pc3

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FILE REF. / NAME:
S-101.dwg

SCALE:
AS NOTED

ISSUE DATE:
07-May-2023

DRG TITLE:
FOOTING PLAN

DRG REF NO:
S-101

REV NO:
0

SHEET 04 of 15

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QIBLA FOR
KABUL = 253°
FROM NORTH

0 0.25 0.5 0.75 1 1.5 2 2.5m
1:25 (A1)

NOTE:
1. ALL DIMENSIONS ARE IN(MM),
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2. G.B= GRADE BEAM

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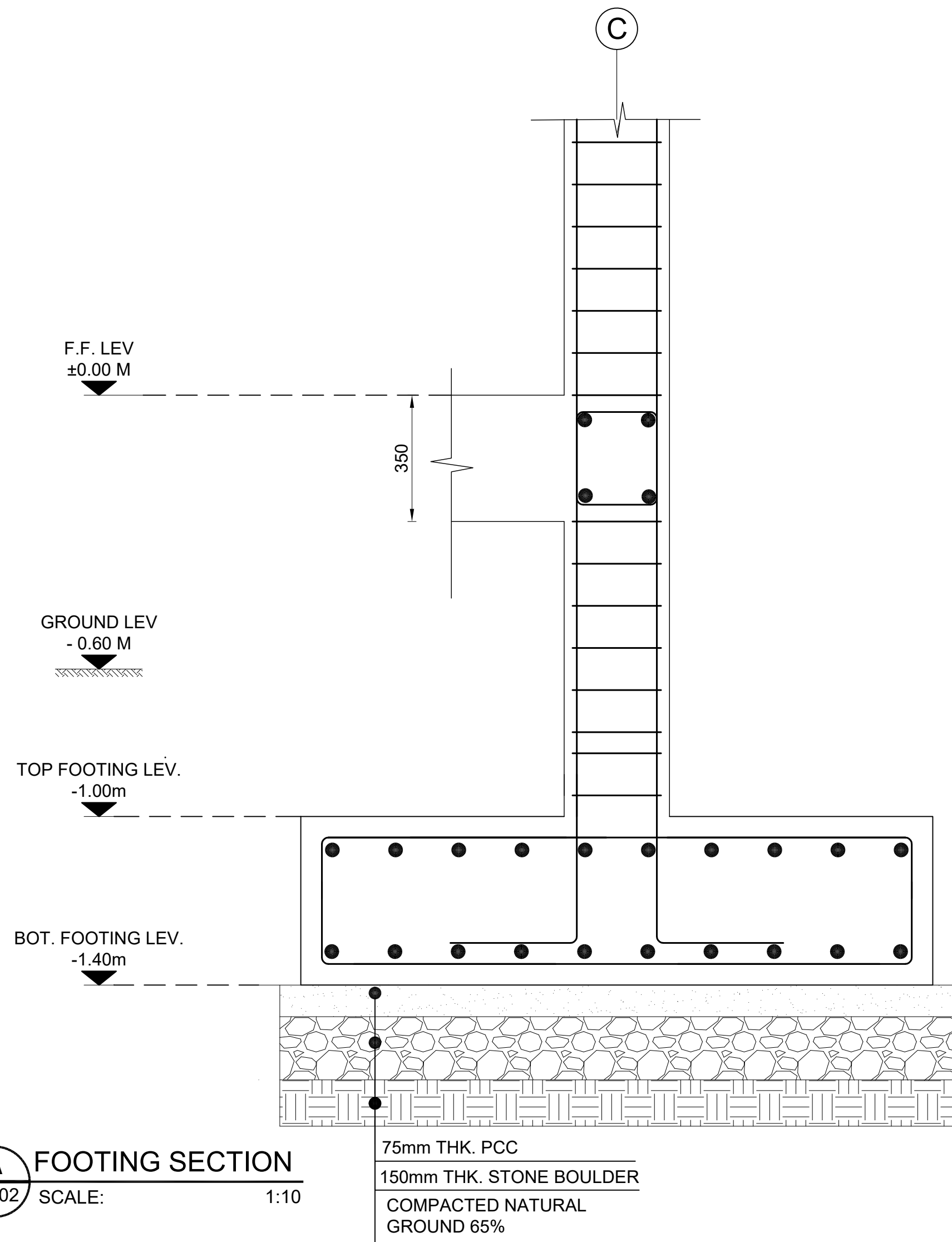
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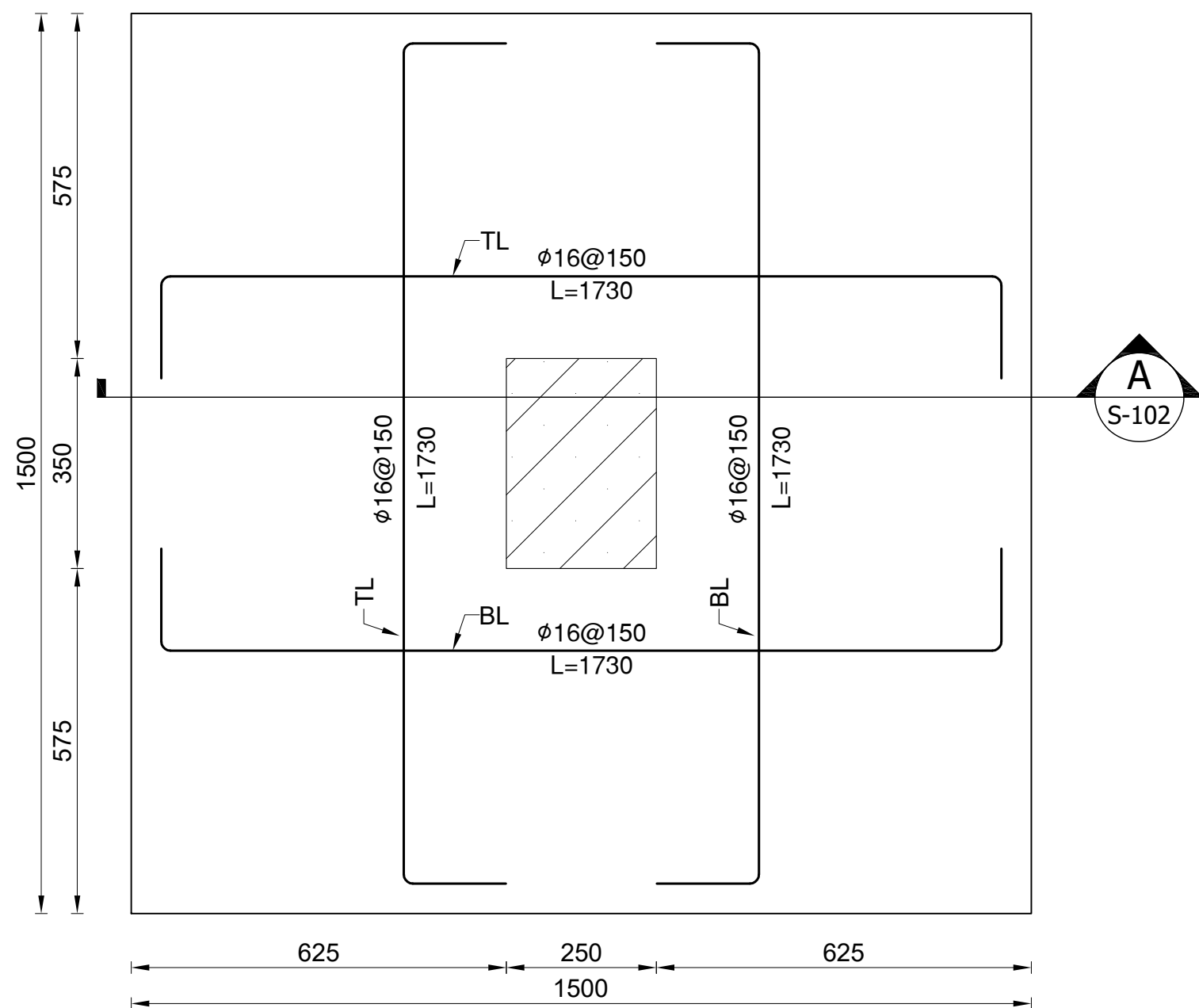
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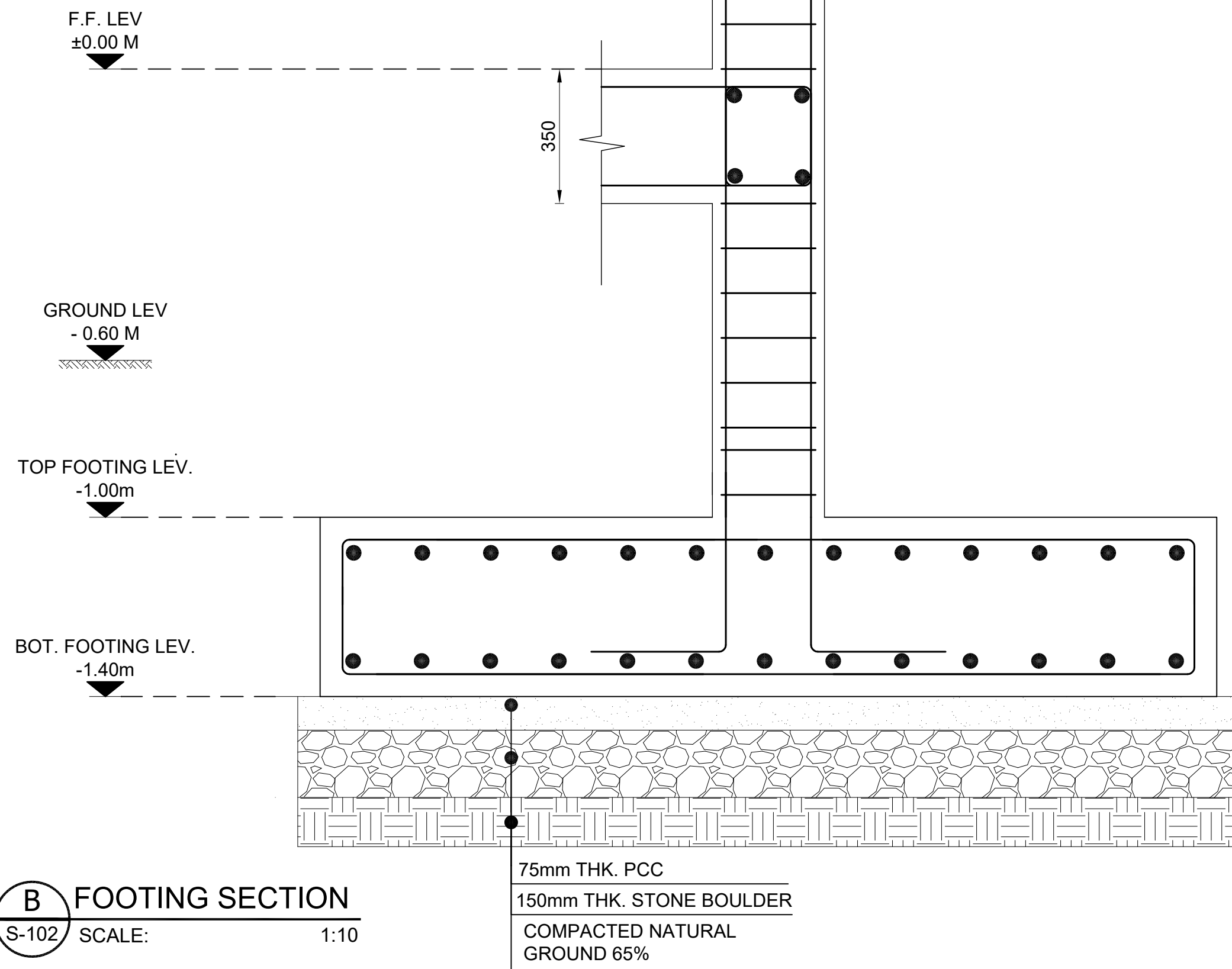
A FOOTING SECTION
S-102 SCALE: 1:10



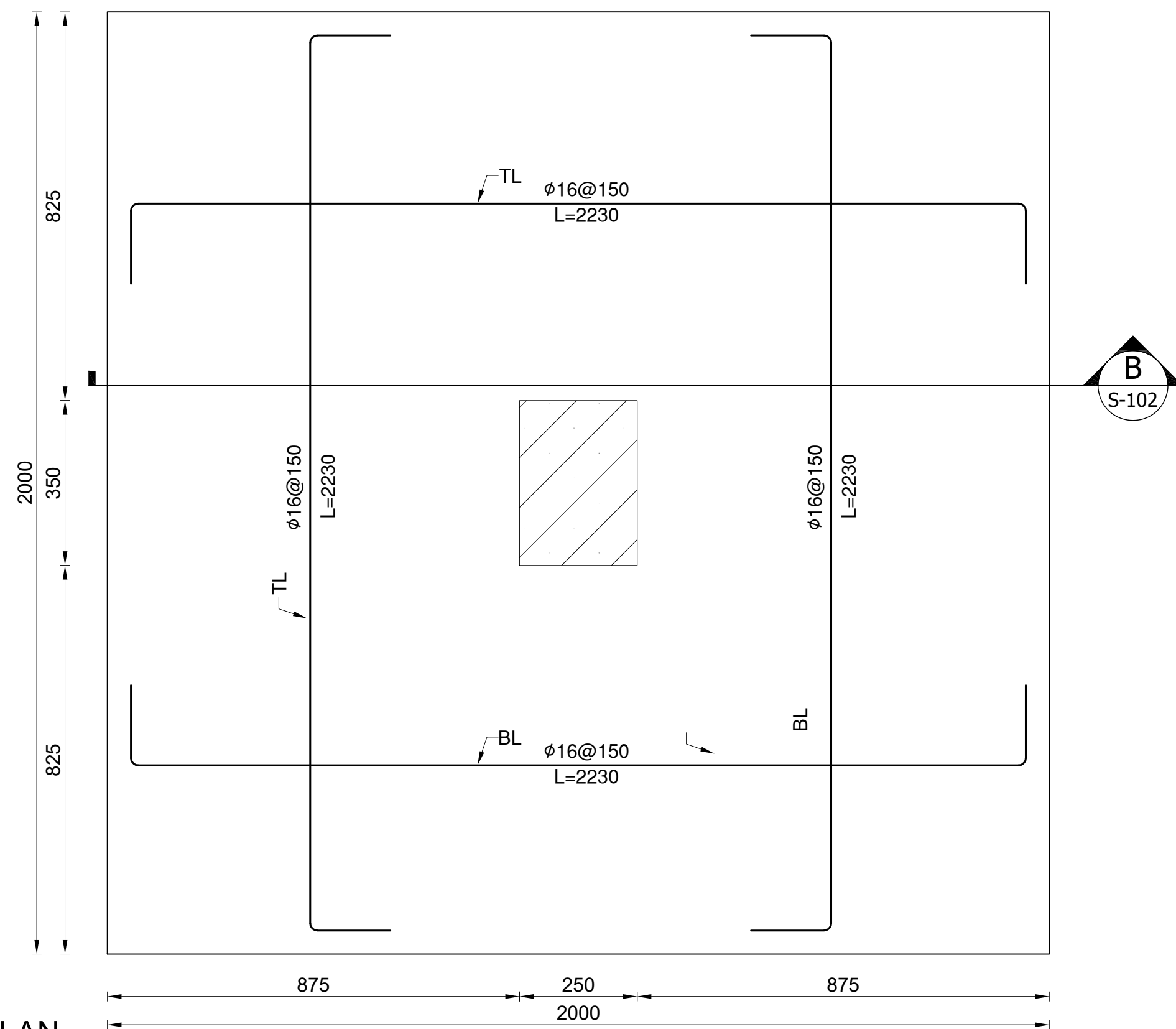
F1 FOOTING PLAN
S-101 SCALE: 1:10



B FOOTING SECTION
S-102 SCALE: 1:10



F2 FOOTING PLAN
S-101 SCALE: 1:10



28-Oct-23 / 1:100 / Nasrat / HP DeskJet
12200.pcs3

PROJECT:

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DRAWING ISSUE HISTORY

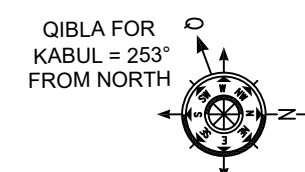
REV	DESCRIPTION	DATE

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FILE REF. / NAME:

S-102.dwg

SCALE:

AS NOTED

ISSUE DATE:

07-May-2023

DRG TITLE:

FOOTING PLAN AND SECTION

DRG REF NO:

S-102

REV NO:

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D

C

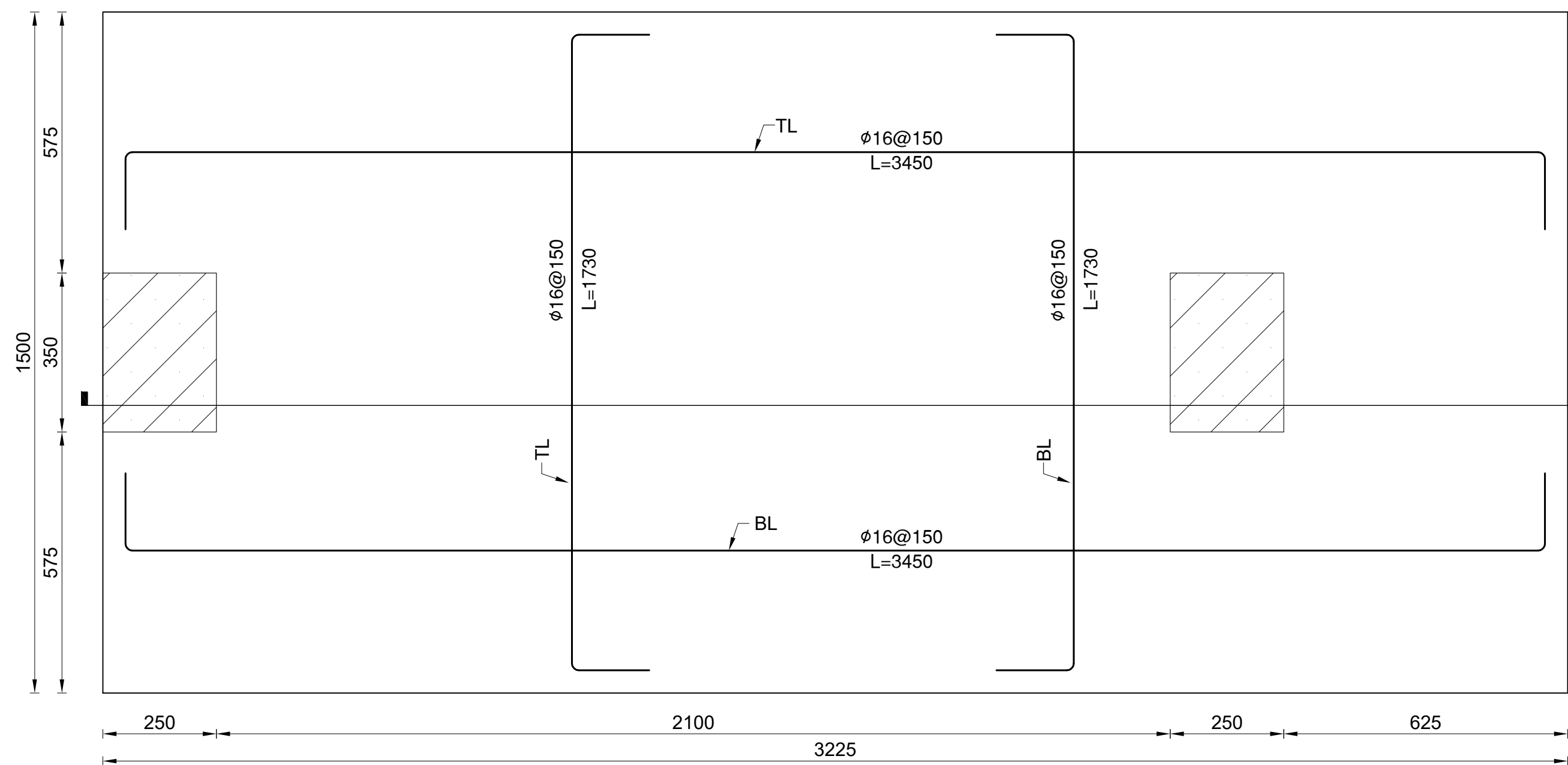
B

A

TOP FOOTING LEV.
-1.00m

BOT. FOOTING LEV.
-1.40m

C FOOTING SECTION
S-103 SCALE: 1:10

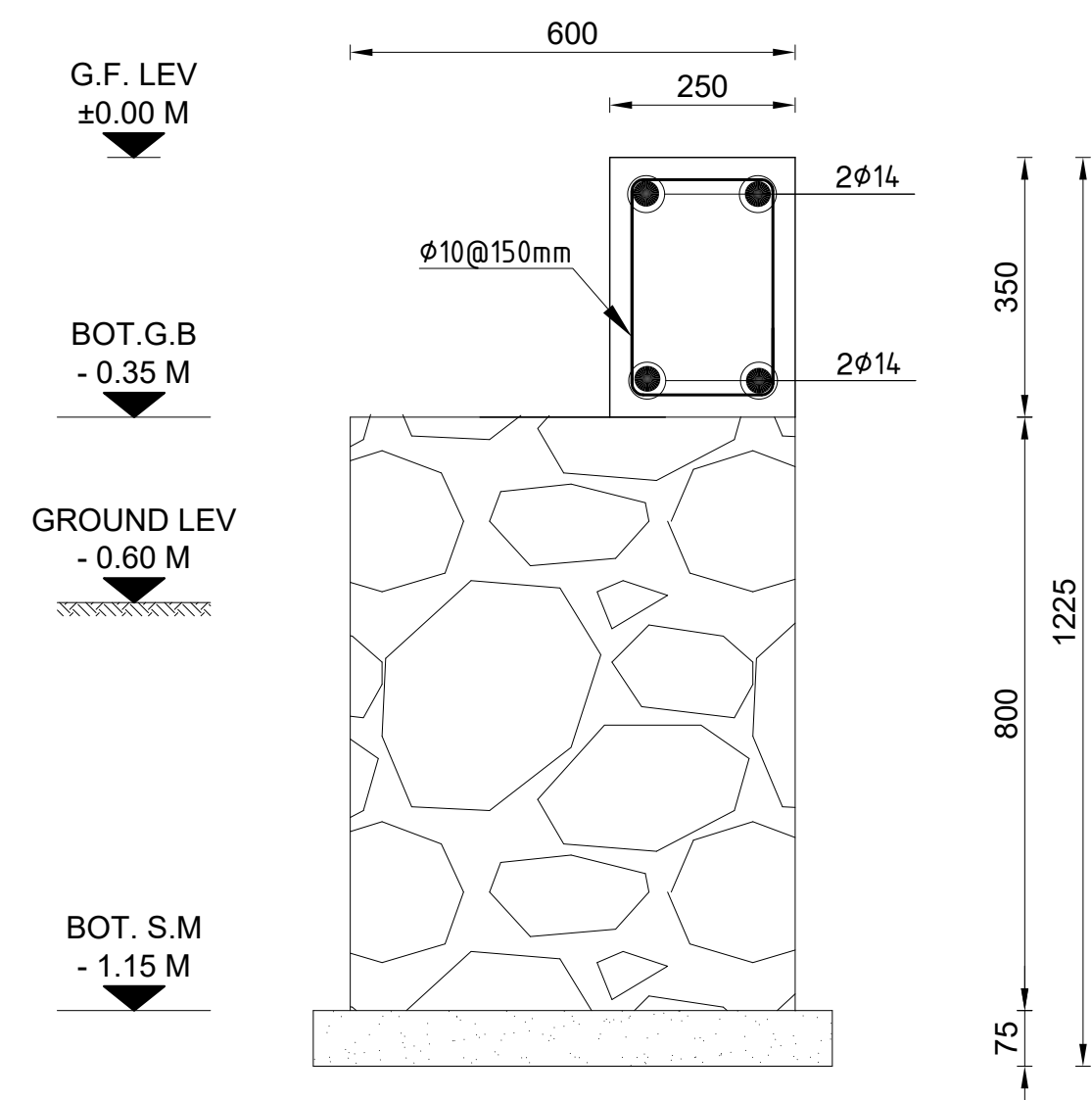


F3 FOOTING SECTION
S-101 SCALE: 1:10

PCC (50mm)
150mm THK. 95% COMPACTED
ENGINEERED FILL
UPGRADE SOIL TO BE
COMPACTED TO 60% MDD

C
S-102

02 FOOTING SECTION
S-101 SCALE: 1:10



03 FOOTING SECTION
S-101 SCALE: 1:10

- NOTE:**
- ALL DIMENSIONS ARE IN(mm), UNLESS OTHERWISE NOTED.
 - G.B= GRADE BEAM
 - LEV.= LEVEL
 - G.F.= GROUND FLOOR
 - BOT = BOTTOM
 - S.M.= STONE MASONRY



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MECHANICAL ENGINEER:

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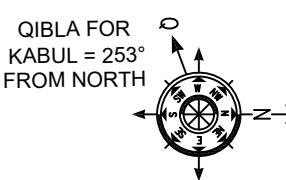
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FILE REF. / NAME:

S-103.dwg

SCALE:

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ISSUE DATE:

07-May-2023

DRG TITLE:

FOOTING SECTION

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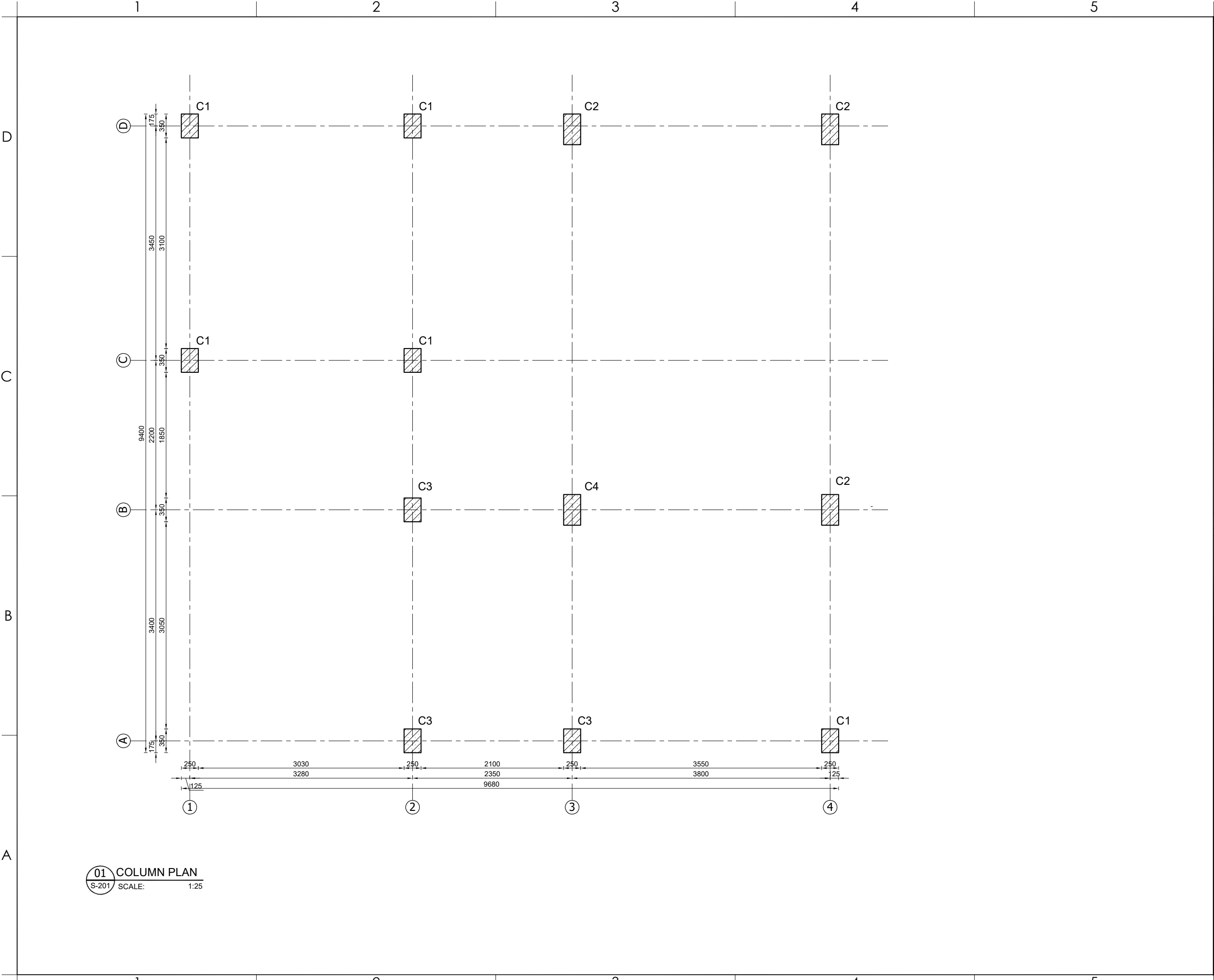
S-103

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FROM NORTH

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FILE REF. / NAME:
S-201.dwg

SCALE:
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ISSUE DATE:
07-May-2023

DRG TITLE:
COLUMN PLAN

DRG REF NO:
S-201

REV NO:
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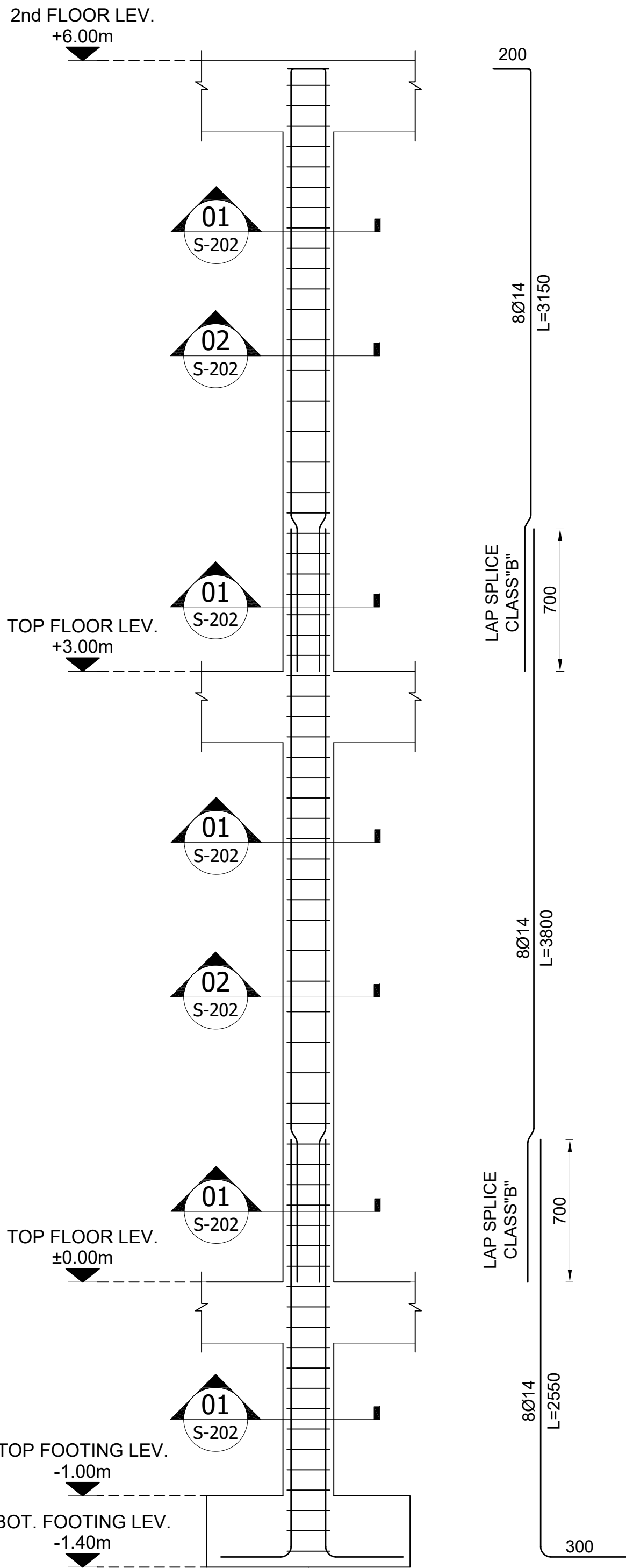
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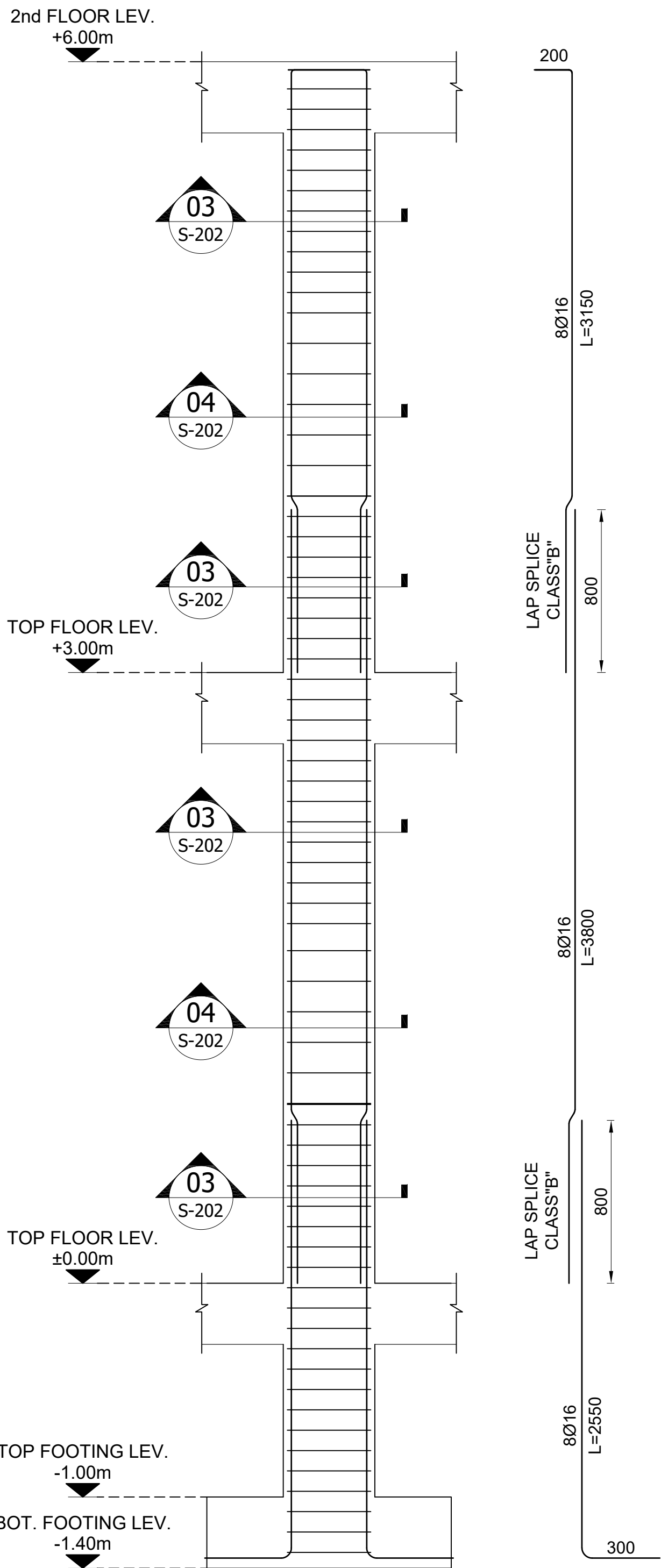
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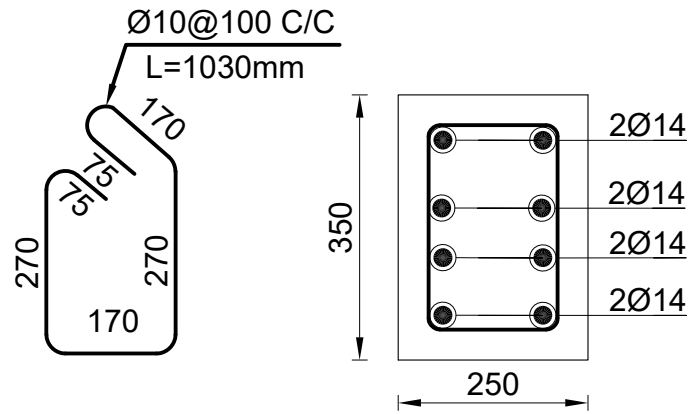
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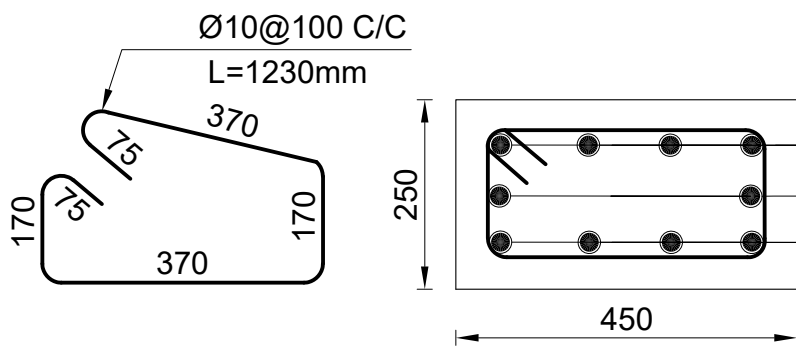
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S-201 SCALE: 1:20



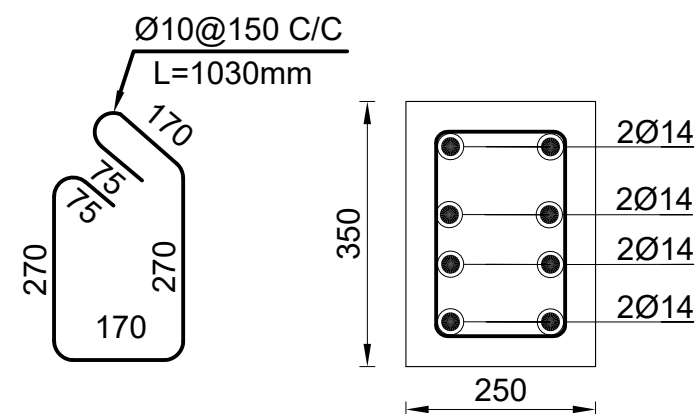
C2 COLUMN ELEVATION
S-201 SCALE: 1:20



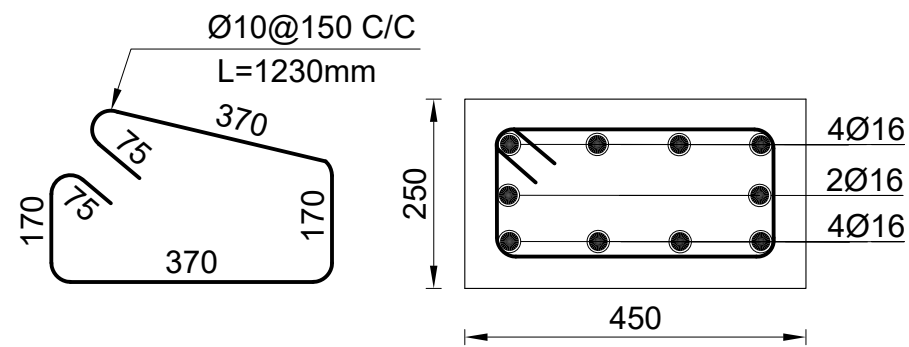
01 COLUMN SECTION
S-202 SCALE: 1:10



03 COLUMN SECTION
S-202 SCALE: 1:10



02 COLUMN SECTION
S-202 SCALE: 1:10



04 COLUMN SECTION
S-202 SCALE: 1:10

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MECHANICAL ENGINEER:

ABDUL HANAN ZAFARMAL

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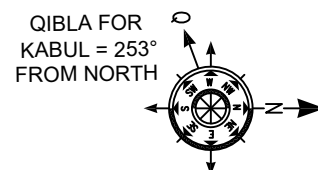
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ISSUE DATE:

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DRG TITLE:

**COLUMN ELEVATION AND
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DRG REF NO:

S-202

REV NO:

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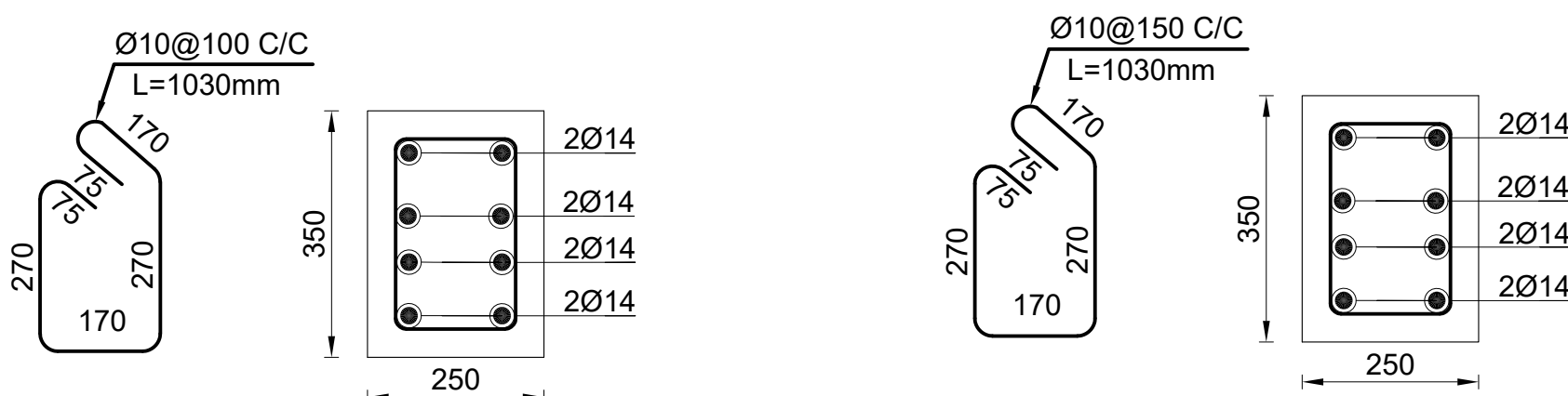
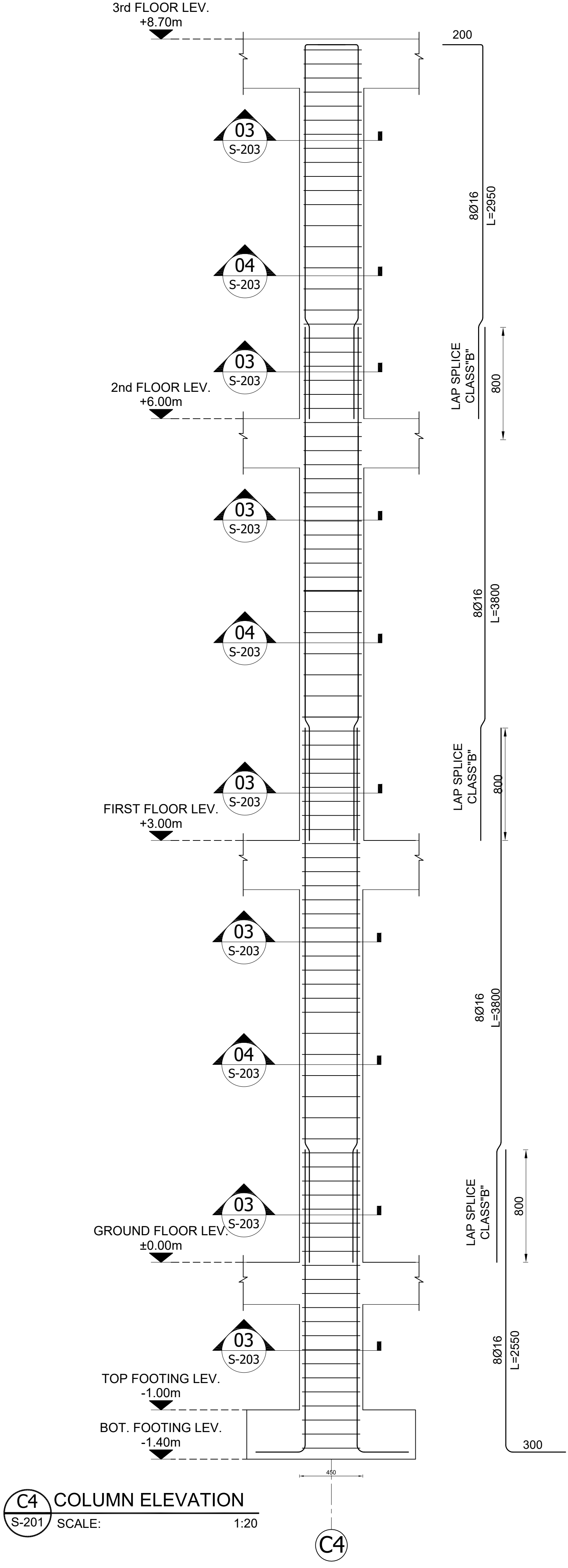
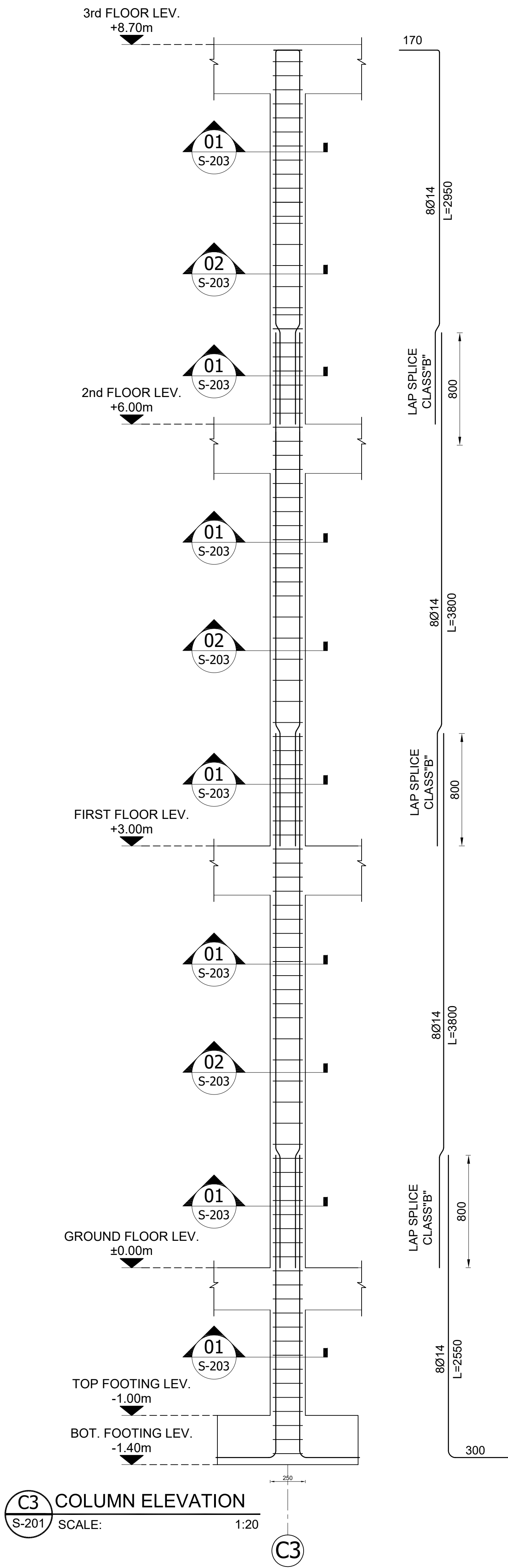
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SECTION

DRG REF NO:

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REV NO:

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REV	DESCRIPTION	DATE

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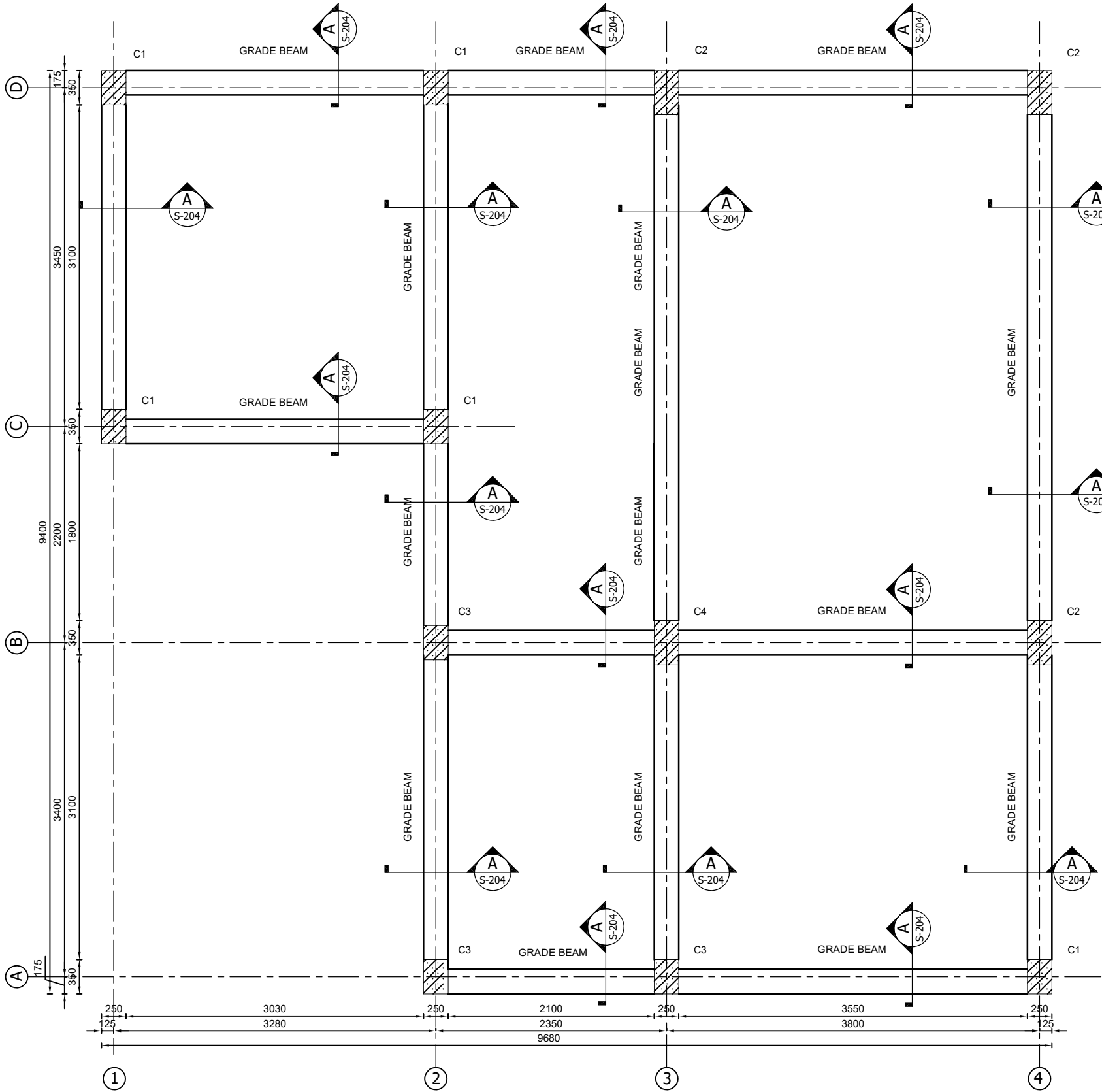
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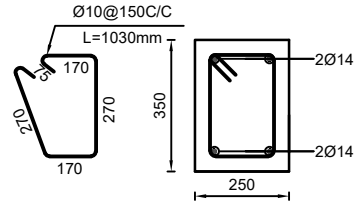
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SCALE: AS NOTED	ISSUE DATE: 07-May-2023

DRG TITLE:
**GRADE BEAM PLAN AND
SECTION**

DRG REF NO: S-204	REV NO: 0
SHEET 10 of 15	



01 GRADE BEAM PLAN
S-204 SCALE: 1:25



A GRADE BEAM SECTION
S-204 SCALE: 1:10

NOTE:

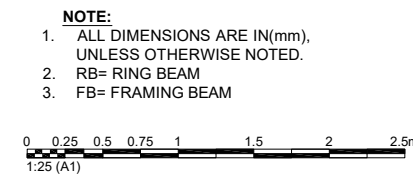
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- RB= RING BEAM
- FB= FRAMING BEAM



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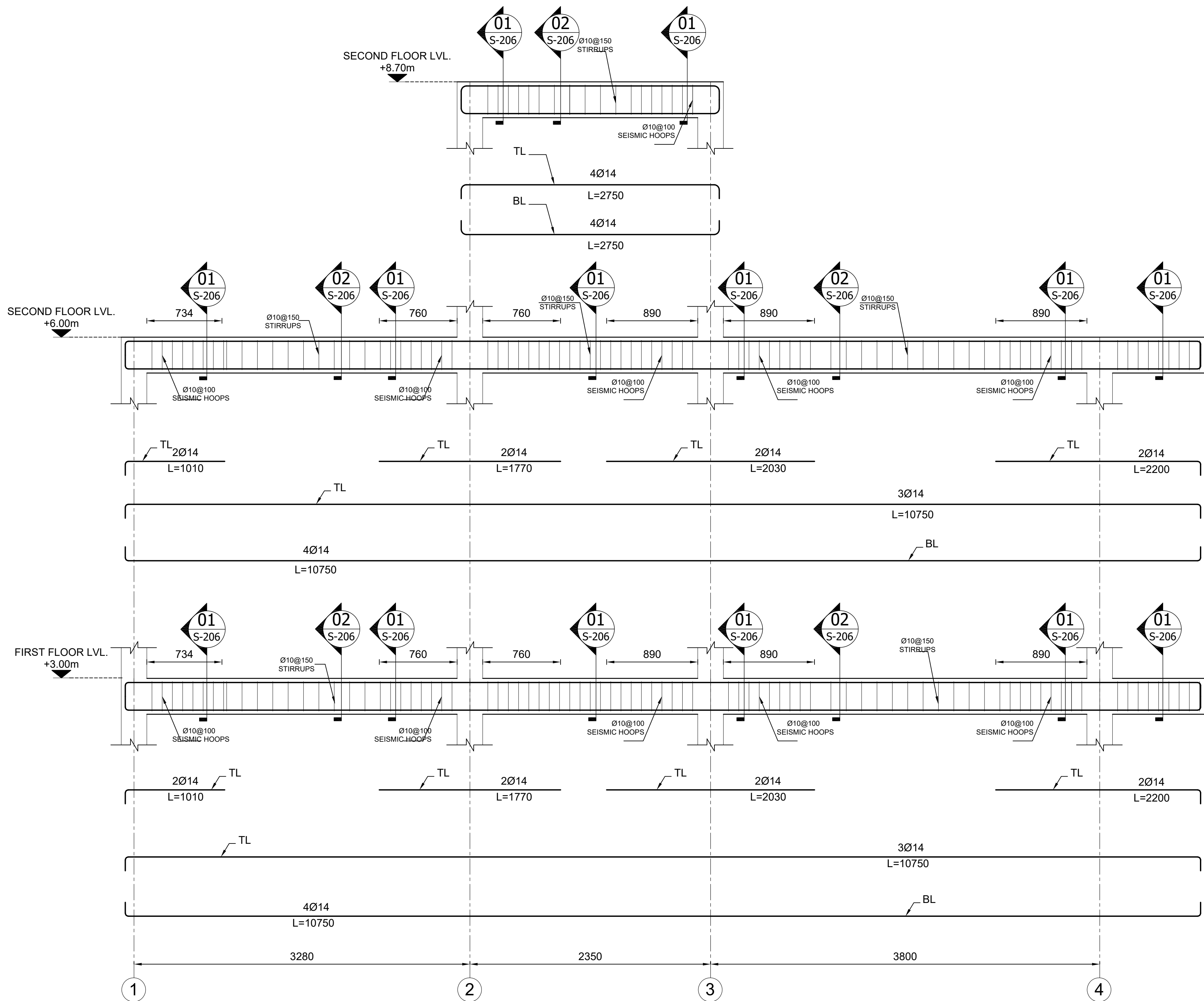
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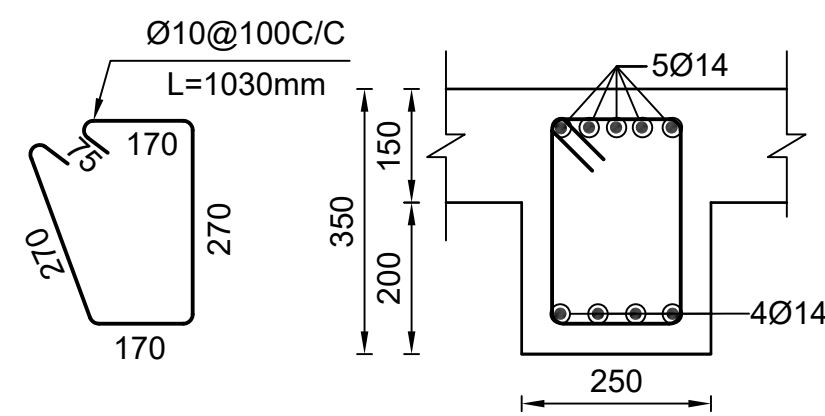
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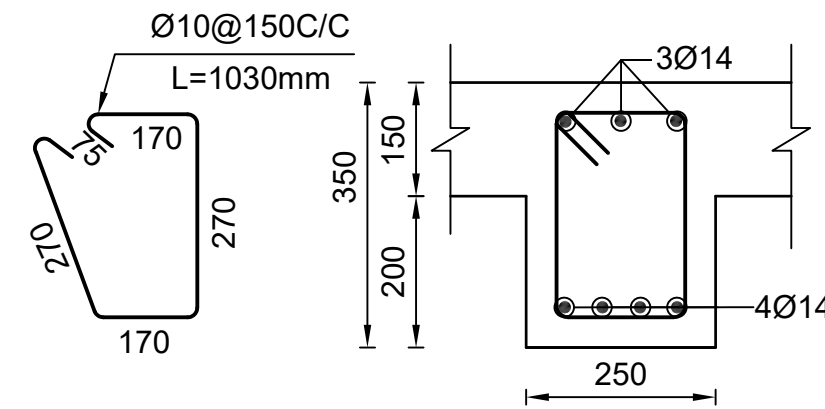
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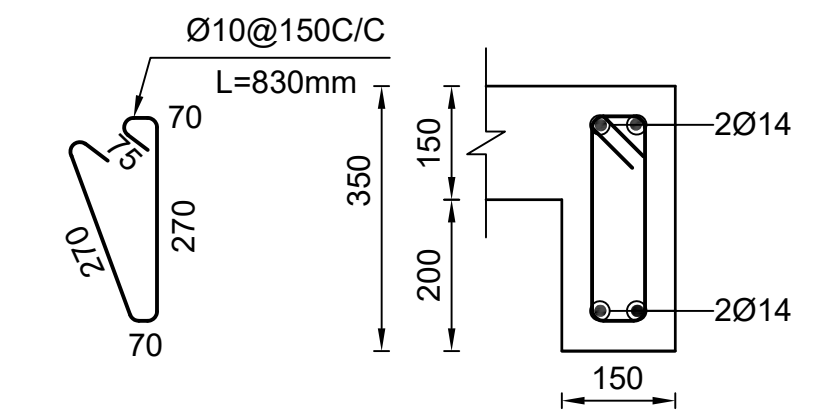
01 BEAM ELEVATION
S-206 SCALE: 1:25



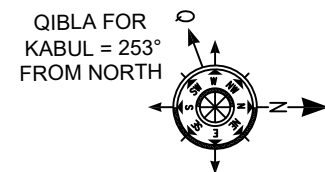
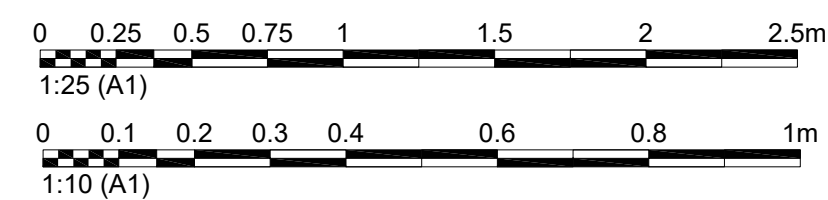
01 BEAM SECTION
S-206 SCALE: 1:10



02 BEAM SECTION
S-206 SCALE: 1:10



D SUM BEAM SECTION
S-205 SCALE: 1:10



PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
AND SPECIALIZED HOSPITAL
KABUL- AFGHANISTAN

OWNER:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:
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CONSTRUCTION COMPANY
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PHONE #+93(0)797024024/+93(0)744862578
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STRUCTURAL ENGINEER:
Nasratullah Nasrat
ELECTRICAL ENGINEER:
ABDUL HANAN ZAFARMAL
PLUMBING ENGINEER:
NAEEM AHMADI
MECHANICAL ENGINEER:
ABDUL HANAN ZAFARMAL

DRAWING ISSUE HISTORY		
REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:
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KEYPLAN:

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FILE REF. / NAME:
S-206.dwg
SCALE:
AS NOTED
ISSUE DATE:
07-May-2023

DRG TITLE:
**BEAM ELEVATION AND
SECTION**

DRG REF NO:
S-206
SHEET 12 of 15

REV NO:
0

PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
AND SPECIALIZED HOSPITAL
KABUL- AFGHANISTAN

OWNER:
AFGHAN FAMILY GUIDANCE ASSOCIATION
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DEVELOPER:
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Naeem Ahmadi

STRUCTURAL ENGINEER:
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ELECTRICAL ENGINEER:
ABDUL HANAN ZAFARMAL

PLUMBING ENGINEER:
NAEEM AHMADI

MECHANICAL ENGINEER:
ABDUL HANAN ZAFARMAL

DRAWING ISSUE HISTORY		
REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:
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KEYPLAN:

QIBLA FOR
KABUL = 253°
FROM NORTH

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CHECKED BY: • NASRATULLAH	
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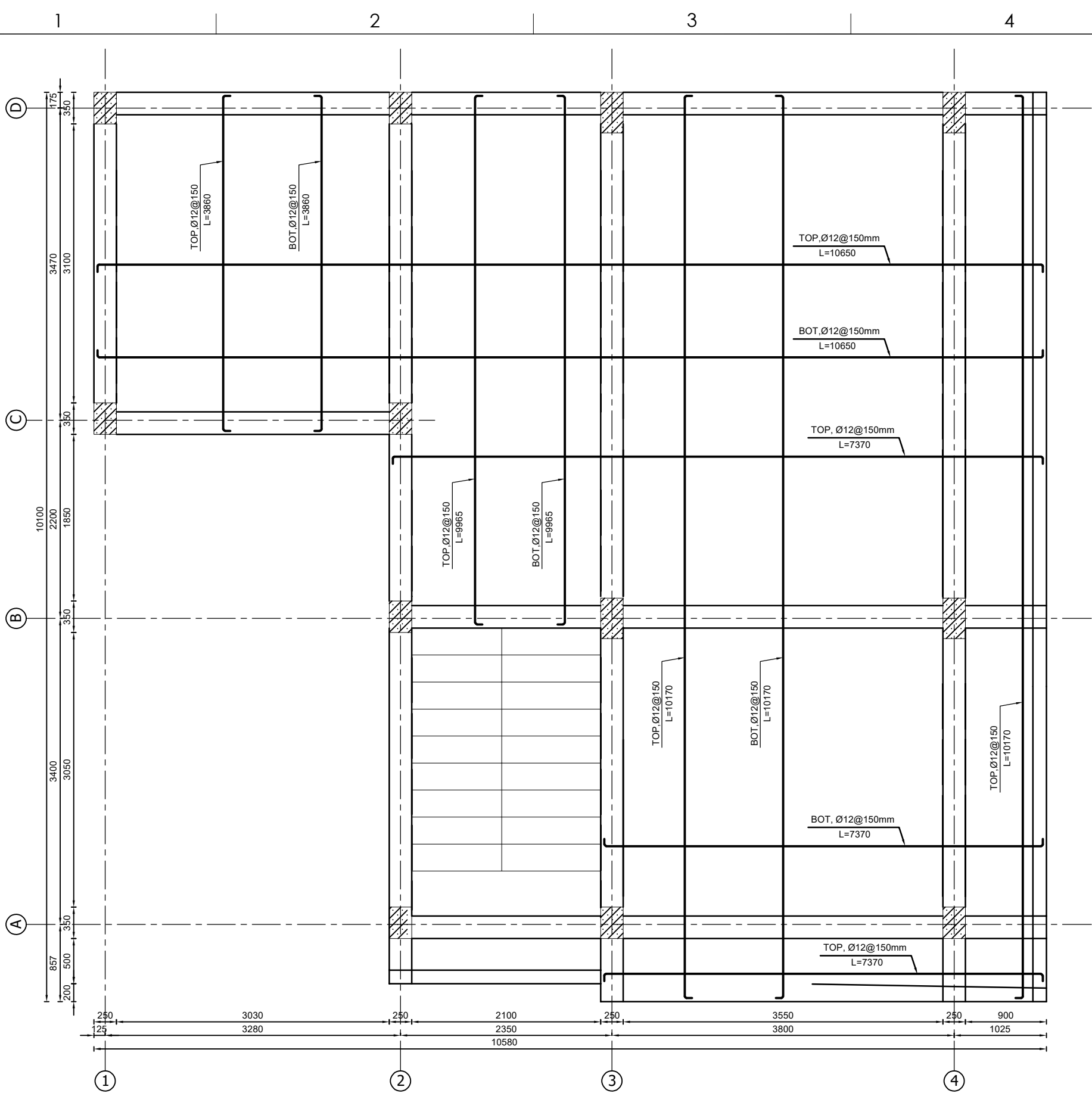
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S-301.dwg

SCALE: AS NOTED	ISSUE DATE: 07-May-2023
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DRG TITLE:
**1st FLOOR AND 2nd FLOOR
SLAB PLAN**

DRG REF NO: S-301	REV NO: 0
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01 1st FLOOR AND 2nd FLOOR
SLAB REINFORCEMENT PLAN
S-301 SCALE: 1:25

- NOTE:**
- ALL DIMENSIONS ARE IN(mm),
UNLESS OTHERWISE NOTED.
 - RB= RING BEAM
 - FB= FRAMING BEAM



PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
AND SPECIALIZED HOSPITAL
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

MOSTAFA NAEEM AHMADI ROAD &
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PHONE #:+93(0)797024024/+93(0)744862578
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ARCHITECT:

Naeem Ahmadi

STRUCTURAL ENGINEER:

Nasratullah Nasrat

ELECTRICAL ENGINEER:

ABDUL HANAN ZAFARMAL

PLUMBING ENGINEER:

NAEEM AHMADI

MECHANICAL ENGINEER:

ABDUL HANAN ZAFARMAL

DRAWING ISSUE HISTORY

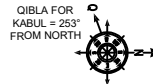
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PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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CHECKED BY:

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FILE REF. / NAME:

S-302.dwg

SCALE:

AS NOTED

ISSUE DATE:

07-May-2023

DRG TITLE:

**3rd FLOOR SLAB
REINFORCEMENT PLAN**

DRG REF NO:

S-302

REV NO:

0

SHEET 14 of 15

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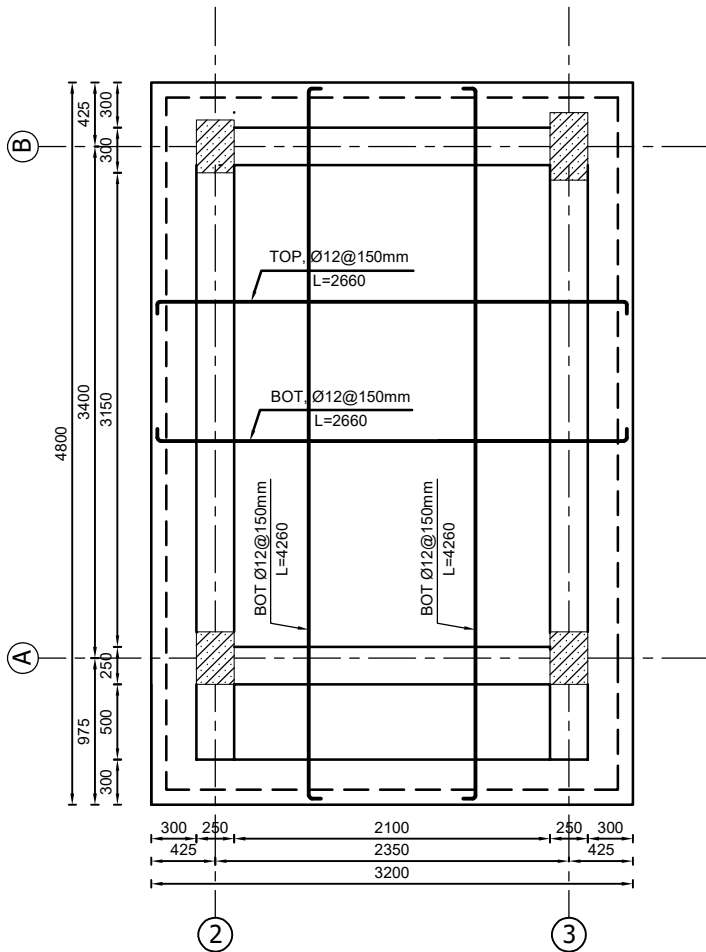
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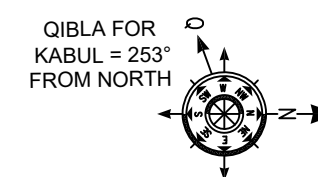


01 3rd FLOOR
SLAB REINFORCEMENT PLAN
S-302 SCALE: 1:25

NOTE:

- ALL DIMENSIONS ARE IN(mm),
UNLESS OTHERWISE NOTED.
- RB= RING BEAM
- FB= FRAMING BEAM





**ELECTRICAL DRAWING
FWC & MHL OFFICE BUILDING PROJECT IN
MALALAI NATIONAL AND SPECIALIZED
HOSPITAL IN
KABUL- AFGHANISTAN**

YEAR: 2023

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ELECTRICAL DRAWING INDEX SHEET		
SHEET REF. NO	SHEET/DRG TITLE	DATE
	GENERAL	May.07.2023
G-001	DRAWINGS COVER SHEET	May.07.2023
E-001	DRAWINGS INDEX SHEET	May.07.2023
E-002	ELECTRICAL AND ELECTRONICS LEGEND	May.07.2023
	ELECTRICAL DRAWINGS	
E-101	FIRST FLOOR LIGHTING PLAN	May.07.2023
E-102	FIRST FLOOR RECEPTACLES PLAN	May.07.2023
E-103	FIRST FLOOR SPLIT UNITS (AC) PLAN	May.07.2023
E-104	SECOND FLOOR LIGHTING PLAN	May.07.2023
E-105	SECOND FLOOR RECEPTACLES PLAN	May.07.2023
E-106	SECOND FLOOR SPLIT UNITS (AC) PLAN	May.07.2023
E-107	MAIN DISTRIBUTION PANEL BOARD DIAGRAM	May.07.2023
E-108	SUB PANEL BOARD DIAGRAM FOR THE FIRST FLOOR	May.07.2023
E-109	SUB PANEL BOARD DIAGRAM FOR THE SECOND FLOOR	May.07.2023

01

E-001


GENERAL INFORMATION

1:25


PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
DRUG STOCK & OFFICE BUILDING
KABUL- AFGHANISTAN

OWNER:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:
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PLUMBING ENGINEER:
Naeem Ahmadi

MECHANICAL ENGINEER:
Abdul Hanan Zafari

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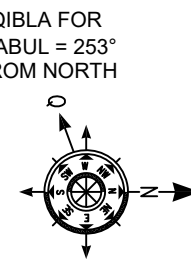
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DESIGN / PROJECT STATUS:

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ISSUE DATE:
07-May-2023

DRG TITLE:

DRG REF NO:
E-001

REV NO:
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SHEET 01 of 11

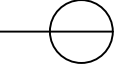

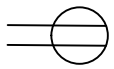












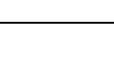



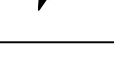

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ELECTRICAL AND ELECTRONICS LEGEND		ELECTRICAL AND ELECTRONICS LEGEND	
SYMBOLS	DESCRIPTIONS	SYMBOLS	DESCRIPTIONS
	SINGLE RECEPTACLES 16A MOUNTED FOR WATER HEATER		EX-FUN WALL MOUNTED 15cm*15cm 28 watt
	DOUBLE RECEPTACLES 16A MOUNTED HEIGHT 45cm FROM FINISH FLOOR		EX-FUN WALL MOUNTED 30cm*30cm 46 watt
	GROUND FAULT CIRCUIT INTERRUPTER (GFCI) RECEPTACLES 16A MOUNTED HEIGHT 60cm FROM FINISH FLOOR		AIR CONDITION AND SPLIT UNIT 6000BTU WITH STANDARD
	WEATHER PROOF LIGHTS (10W) WITH STANDARD MANUFACTURED		OUTDOOR OF 6000BTU AIR CONDITION
	CEILING LIGHTS (12W) WITH STANDARD MANUFACTURED		WALL MOUNTED 50 LITER , 2KW WATER HEATER
	CEILING LIGHTS (1X72W) WITH STANDARD MANUFACTURED		
	WATER PROOF CEILING LIGHTS (15W) WITH STANDARD MANUFACTURED		
	WALL LIGHTS (1X9W) WITH STANDARD MANUFACTURED MOUNTED HEIGH, ABOVE THE MIRROR IN BATHROOM		
	SINGLE BUTTON SWITCH 10A MOUNTED HEIGHT 125cm FROM FINISH FLOOR		
	DOUBLE BUTTON SWITCH 10A MOUNTED HEIGHT 125cm FROM FINISH FLOOR		
	OUTDOOR OF 5000BTU AIR CONDITION		
	AIR CONDITION AND SPLIT UNIT 5000BTU WITH STANDARD		
	DISCONNECT SWITCH FOR ELECTRICAL WATER HEATER / AIR CONDITIONER 32A MOUNTED HEIGHT 180cm FROM FINISH FLOOR		
	ELECTRICAL CIRCUIT DIRECTION FOR ALL BRANCH CIRCUIT (IT SHOWS THE LOCATION OF CIRCUIT BREAKER WITH AMPS)		
	WALL MOUNTED STEEL ELECTRICAL PANEL BOARD SYSTEM AND CITY POWER SYSTEM MOUNTED HEIGHT 150cm TOP OF PANEL FROM FINISH FLOOR		
	MAIN DISTRIBUTION PANEL BOARD WITH HIGH OF 150cm FROM FINISH FLOOR		

01

ELECTRICAL GENERAL LEGEND

E-002

1:25

PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
DRUG STOCK & OFFICE BUILDING
KABUL- AFGHANISTAN

OWNER:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:
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Naeem Ahmadi

STRUCTURAL ENGINEER:
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ELECTRICAL ENGINEER:
Abdul Hanan Zafari

PLUMBING ENGINEER:
Naeem Ahmadi

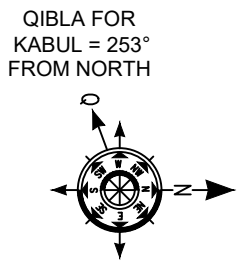
MECHANICAL ENGINEER:
Abdul Hanan Zafari

DRAWING ISSUE HISTORY		
REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:
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FILE REF. / NAME: E-101.dwg	
SCALE: AS NOTED	ISSUE DATE: 07-May-2023

DRG TITLE:

DRG REF NO: E-002	REV NO: 0
SHEET 02 of 11	

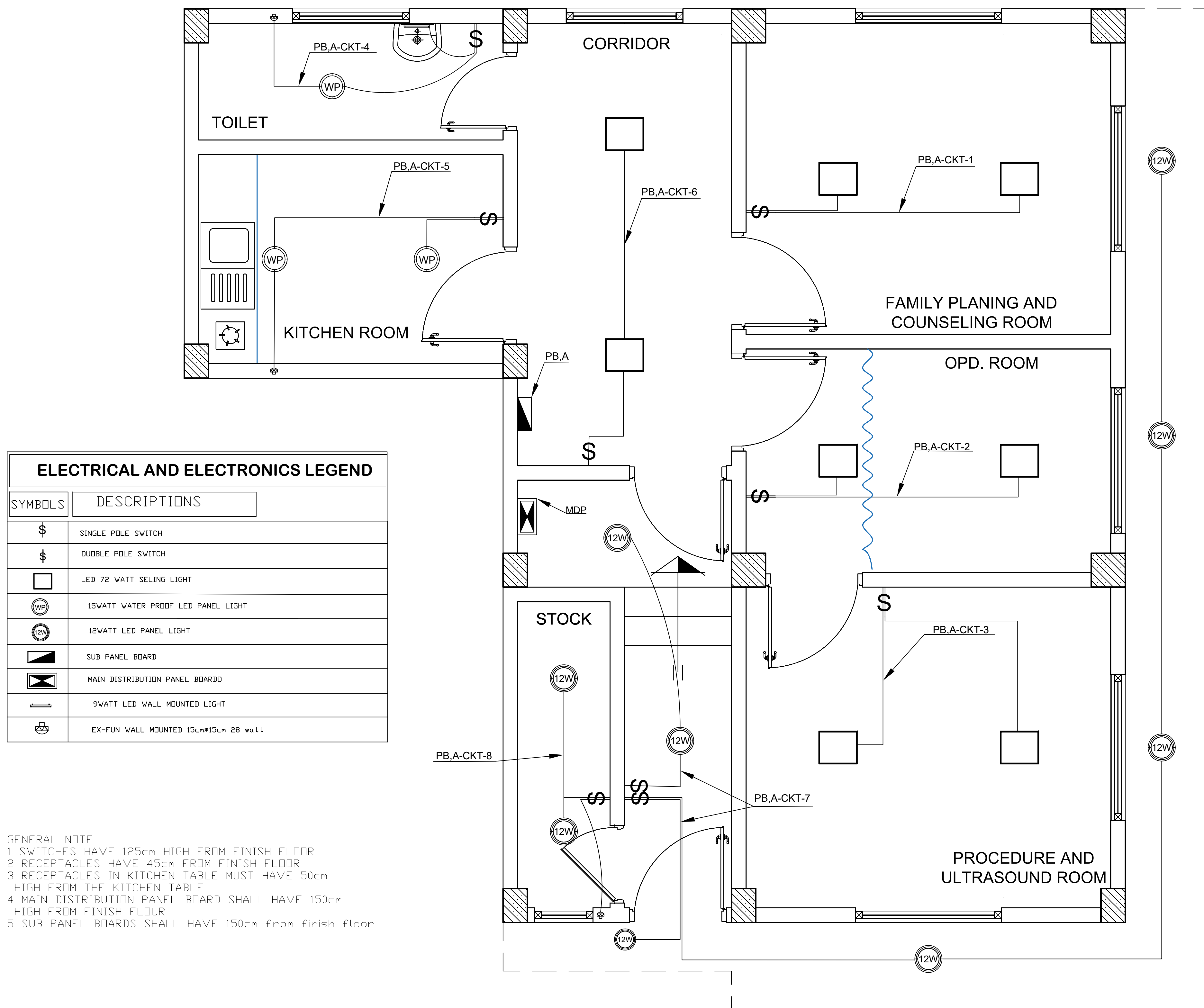
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B

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**PROJECT:**AFGHAN FAMILY GUIDANCE ASSOCIATION
DRUG STOCK & OFFICE BUILDING
KABUL- AFGHANISTAN**OWNER:**AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:**DEVELOPER:**MOSTAFA NAEEM AHMADI ROAD &
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PHONE #:+93(0)797024024/+93(0)744862578
FAX #:**ARCHITECT:**

Naeem Ahmadi

STRUCTURAL ENGINEER:

Nasratullah Nasrat

ELECTRICAL ENGINEER:

Abdul Hanan Zafari

PLUMBING ENGINEER:

Naeem Ahmadi

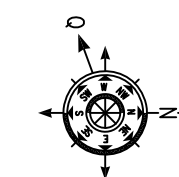
MECHANICAL ENGINEER:

Abdul Hanan Zafari

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REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:**FOR TENDER ONLY****KEYPLAN:**QIBLA FOR
KABUL = 253°
FROM NORTH**DRAWN BY:**

- Abdul Hanan Zafari

CHECKED BY:**REVIEWED BY:**

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07-May-2023

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E-101

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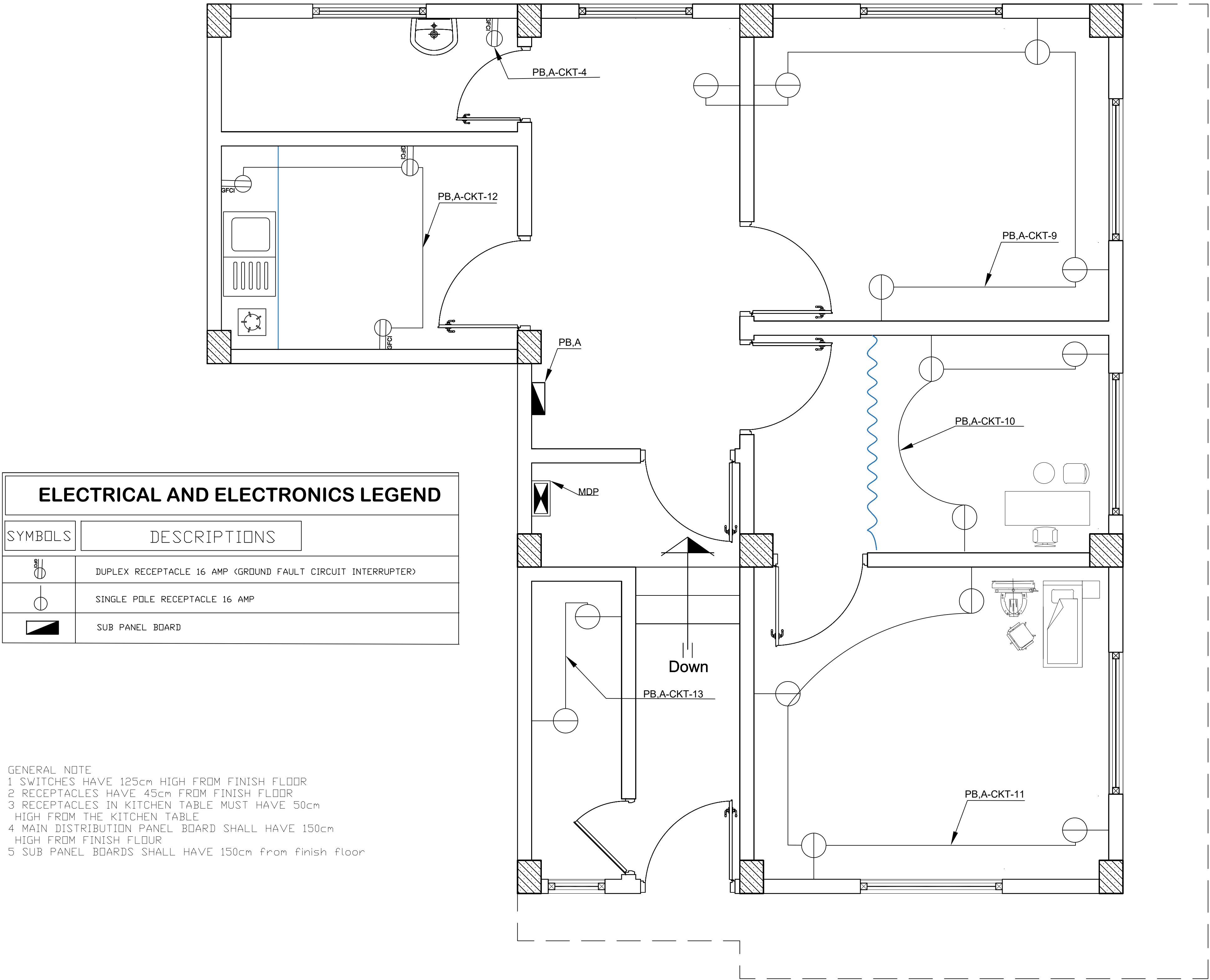
A3 / LTSCALE: 1 / monochrome.ctb / 28-Oct-23 / 1:100 / Nasrat / HP Deskjet 1220C.pc3

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ELECTRICAL AND ELECTRONICS LEGEND	
SYMBOLS	DESCRIPTIONS
	DUPLEX RECEPTACLE 16 AMP (GROUND FAULT CIRCUIT INTERRUPTER)
	SINGLE POLE RECEPTACLE 16 AMP
	SUB PANEL BOARD

GENERAL NOTE
1 SWITCHES HAVE 125cm HIGH FROM FINISH FLOOR
2 RECEPTACLES HAVE 45cm FROM FINISH FLOOR
3 RECEPTACLES IN KITCHEN TABLE MUST HAVE 50cm HIGH FROM THE KITCHEN TABLE
4 MAIN DISTRIBUTION PANEL BOARD SHALL HAVE 150cm HIGH FROM FINISH FLOOR
5 SUB PANEL BOARDS SHALL HAVE 150cm from finish floor

01 FIRST FLOOR RECEPTACAL PLAN
E-102 1:25

PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
DRUG STOCK & OFFICE BUILDING
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

MOSTAFA NAEEM AHMADI ROAD &
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PLUMBING ENGINEER:

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MECHANICAL ENGINEER:

Abdul Hanan Zafari

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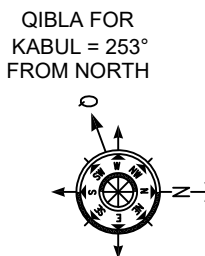
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07-May-2023

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DRG REF NO:

E-102

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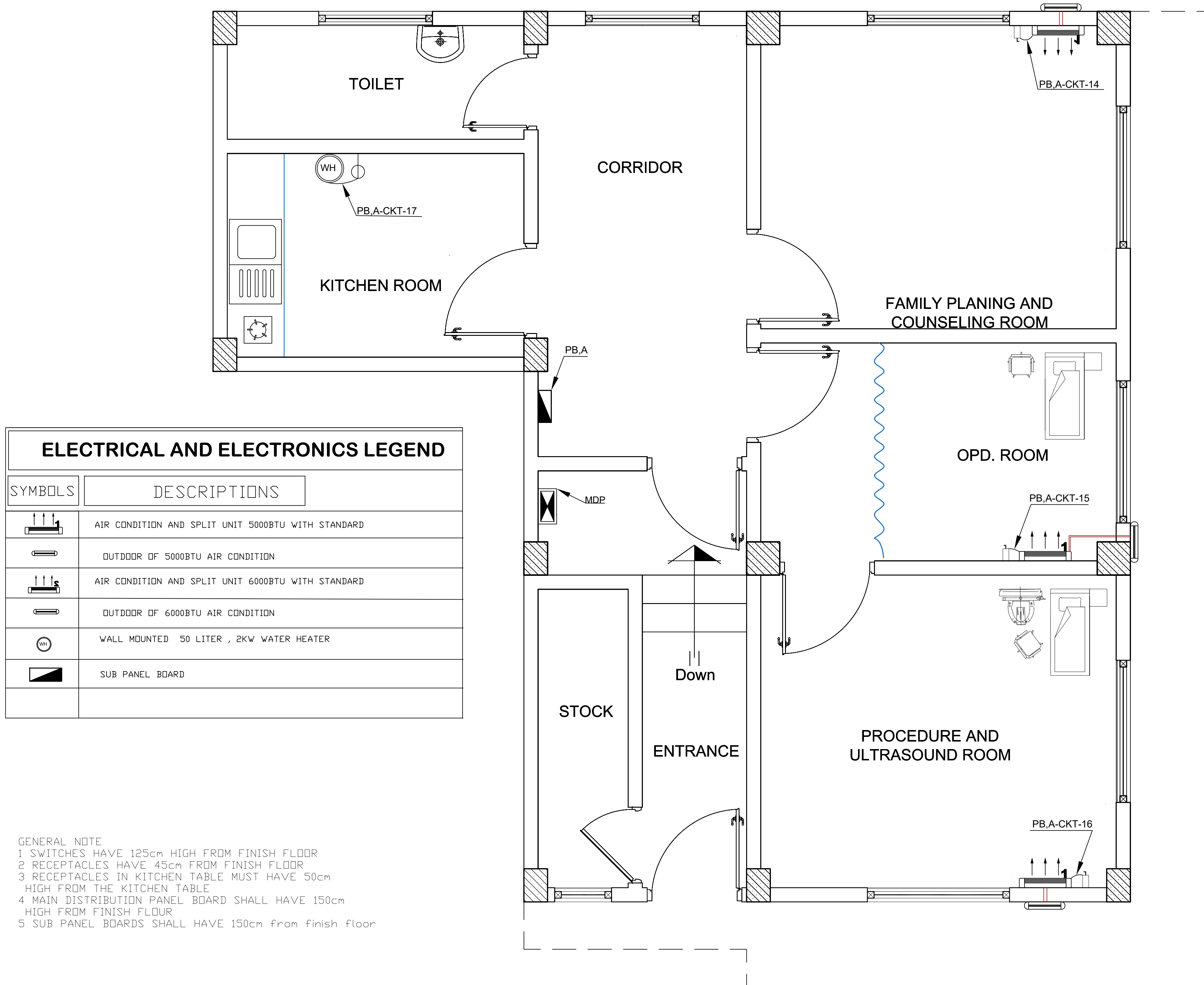
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01 FIRST FLOOR MECHANICAL PLAN
E-103 1:25

PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
DRUG STOCK & OFFICE BUILDING
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:

**DEVELOPER:**

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MECHANICAL ENGINEER:

Abdul Hanan Zafari

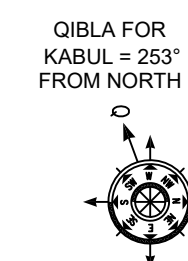
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ISSUE DATE:

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DRG TITLE:**DRG REF NO:**

E-103

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1:100 / Hanan Hoshmand / HP DeskJet 1220C.pc3

PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
DRUG STOCK & OFFICE BUILDING
KABUL- AFGHANISTAN

OWNER:

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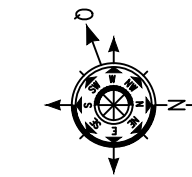
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KEYPLAN:

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FROM NORTH



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- Abdul Hanan Zafari

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DRG TITLE:

DRG REF NO:

E-104

REV NO:

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ELECTRICAL AND ELECTRONICS LEGEND

SYMBOLS	DESCRIPTIONS
\$	SINGLE POLE SWITCH
\$	DOUBLE POLE SWITCH
□	LED 72 WATT SELING LIGHT
WP	15WATT WATER PROOF LED PANEL LIGHT
12W	12WATT LED PANEL LIGHT
9W	9WATT LED PANEL LIGHT WEATHER PROOF
Sub Panel Board	SUB PANEL BOARD
9W	9WATT LED WALL MOUNTED LIGHT
EX-FUN	EX-FUN WALL MOUNTED 15cm*15cm 28 watt

GENERAL NOTE

- SWITCHES HAVE 125cm HIGH FROM FINISH FLOOR
- RECEPTACLES HAVE 45cm FROM FINISH FLOOR
- RECEPTACLES IN KITCHEN TABLE MUST HAVE 50cm HIGH FROM THE KITCHEN TABLE
- MAIN DISTRIBUTION PANEL BOARD SHALL HAVE 150cm HIGH FROM FINISH FLOOR
- SUB PANEL BOARDS SHALL HAVE 150cm from finish floor

01 SECOND FLOOR LIGHTING PLAN

E-104

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


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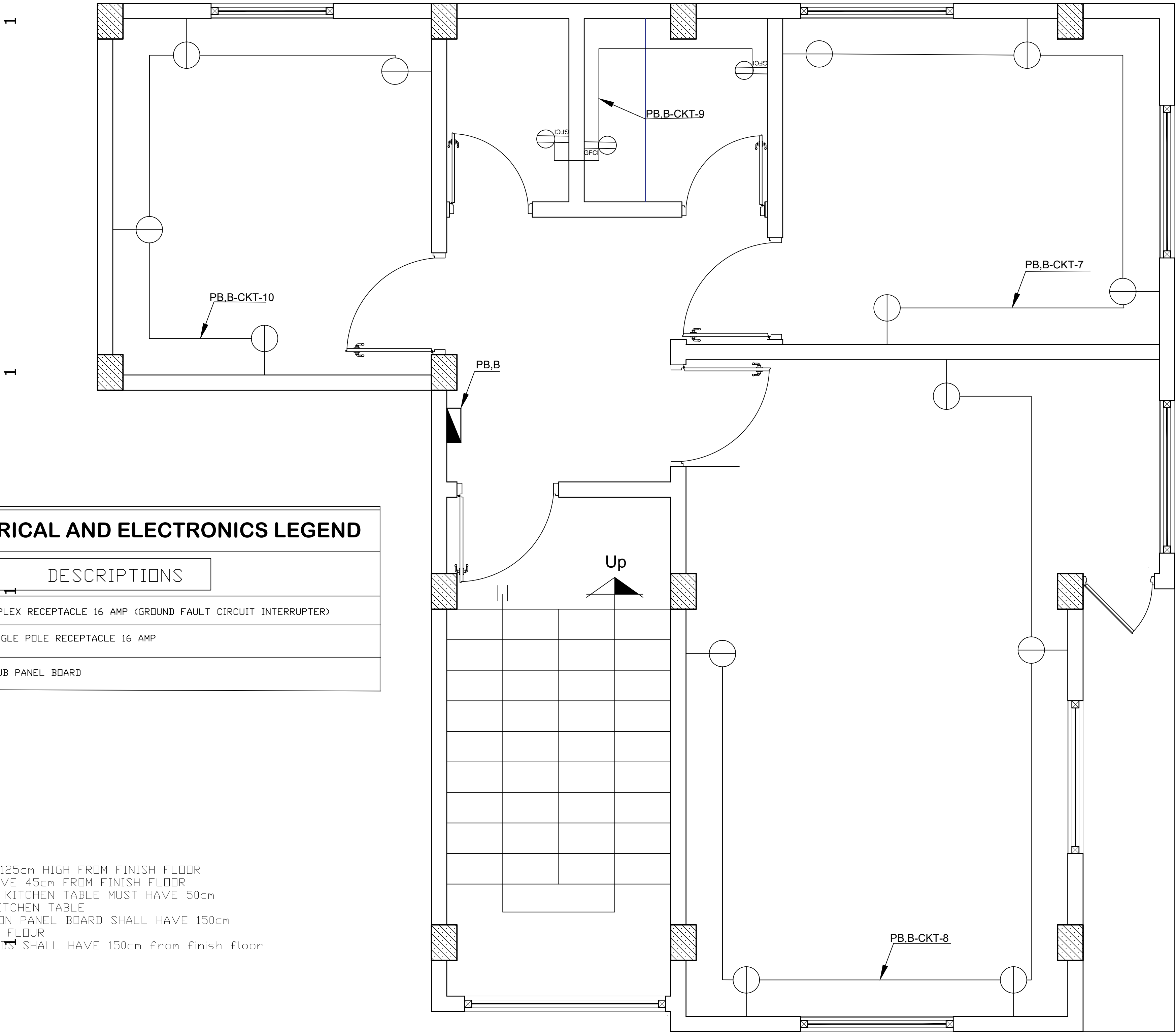
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ELECTRICAL AND ELECTRONICS LEGEND	
SYMBOLS	DESCRIPTIONS
	DUPLEX RECEPTACLE 16 AMP (GROUND FAULT CIRCUIT INTERRUPTER)
	SINGLE POLE RECEPTACLE 16 AMP
	SUB PANEL BOARD

GENERAL NOTE
1 SWITCHES HAVE 125cm HIGH FROM FINISH FLOOR
2 RECEPTACLES HAVE 45cm FROM FINISH FLOOR
3 RECEPTACLES IN KITCHEN TABLE MUST HAVE 50cm HIGH FROM THE KITCHEN TABLE
4 MAIN DISTRIBUTION PANEL BOARD SHALL HAVE 150cm HIGH FROM FINISH FLOOR
5 SUB PANEL BOARDS SHALL HAVE 150cm from finish floor

01 SECOND FLOOR RECEPTACLE PLAN
E-105 1:25



A3 / LTSCALE 1 / monochrome.ctb / 22-Oct-23 / 1:100 / Hanan Hoshmand / HP DeskJet 1220C.pc3

PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
DRUG STOCK & OFFICE BUILDING
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION

FOCAL NAME:

E-MAIL:

CELL #:

DEVELOPER:

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Abdul Hanan Zafari

PLUMBING ENGINEER:

Naeem Ahmadi

MECHANICAL ENGINEER:

Abdul Hanan Zafari

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REV	DESCRIPTION	DATE

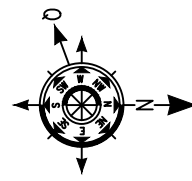
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DESIGN / PROJECT STATUS:

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KEYPLAN:

QIBLA FOR KABUL = 253° FROM NORTH



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DRG TITLE:

DRG REF NO:

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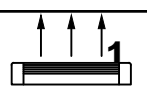

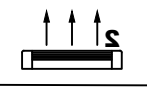



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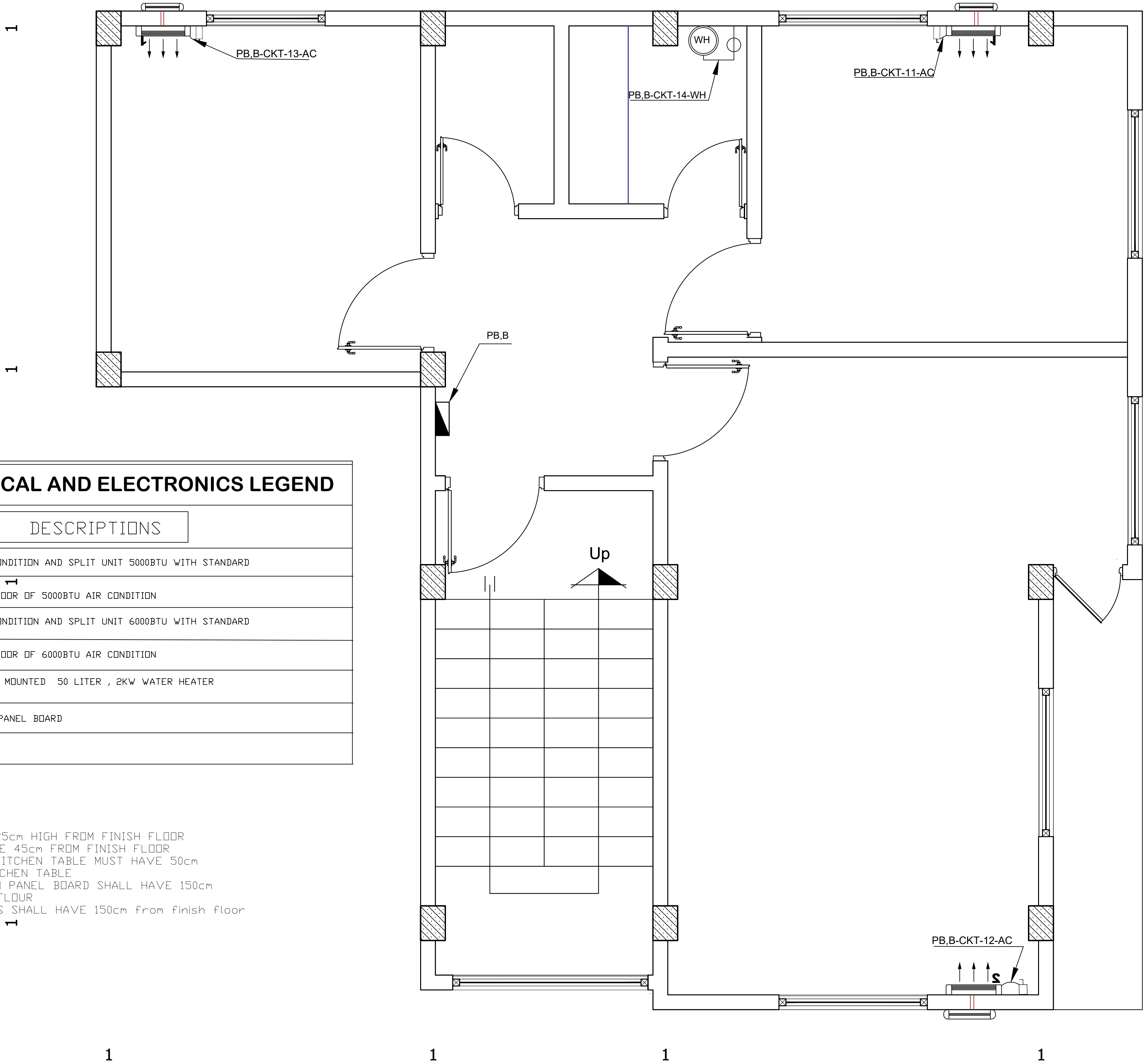
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ELECTRICAL AND ELECTRONICS LEGEND	
SYMBOLS	DESCRIPTIONS
	AIR CONDITION AND SPLIT UNIT 5000BTU WITH STANDARD
	OUTDOOR OF 5000BTU AIR CONDITION
	AIR CONDITION AND SPLIT UNIT 6000BTU WITH STANDARD
	OUTDOOR OF 6000BTU AIR CONDITION
	WALL MOUNTED 50 LITER , 2KW WATER HEATER
	SUB PANEL BOARD

GENERAL NOTE
1 SWITCHES HAVE 125cm HIGH FROM FINISH FLOOR
2 RECEPTACLES HAVE 45cm FROM FINISH FLOOR
3 RECEPTACLES IN KITCHEN TABLE MUST HAVE 50cm HIGH FROM THE KITCHEN TABLE
4 MAIN DISTRIBUTION PANEL BOARD SHALL HAVE 150cm HIGH FROM FINISH FLOOR
5 SUB PANEL BOARDS SHALL HAVE 150cm from finish floor


01 SECOND FLOOR MECHANICAL PLAN
E-106 1:25




PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
DRUG STOCK & OFFICE BUILDING
KABUL- AFGHANISTAN

OWNER:
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FOCAL NAME:
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STRUCTURAL ENGINEER:
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ELECTRICAL ENGINEER:
Abdul Hanan Zafari

PLUMBING ENGINEER:
Naeem Ahmadi

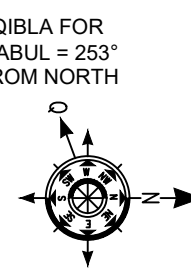
MECHANICAL ENGINEER:
Abdul Hanan Zafari

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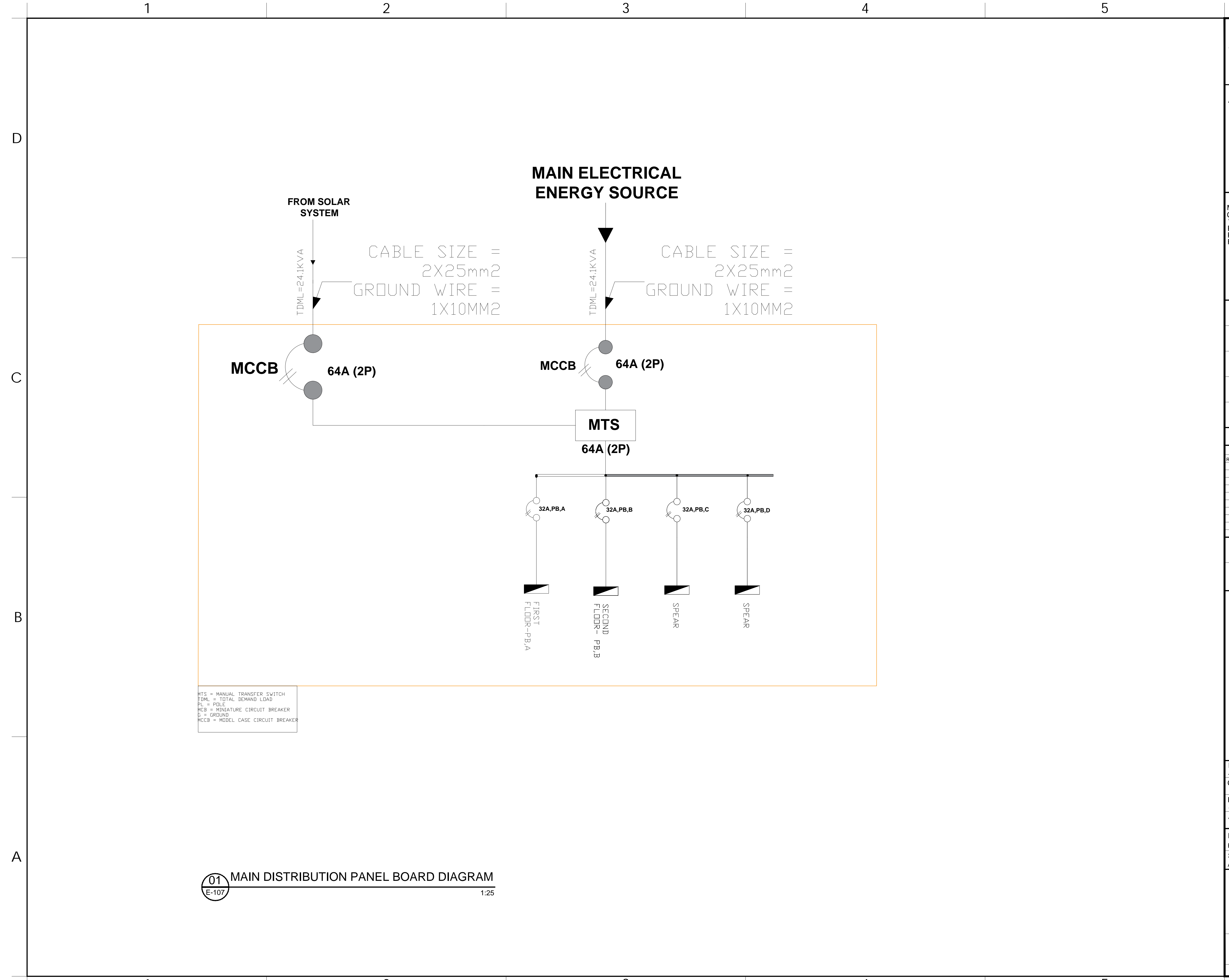
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PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
DRUG STOCK & OFFICE BUILDING
KABUL- AFGHANISTAN

OWNER:

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DRG REF NO:

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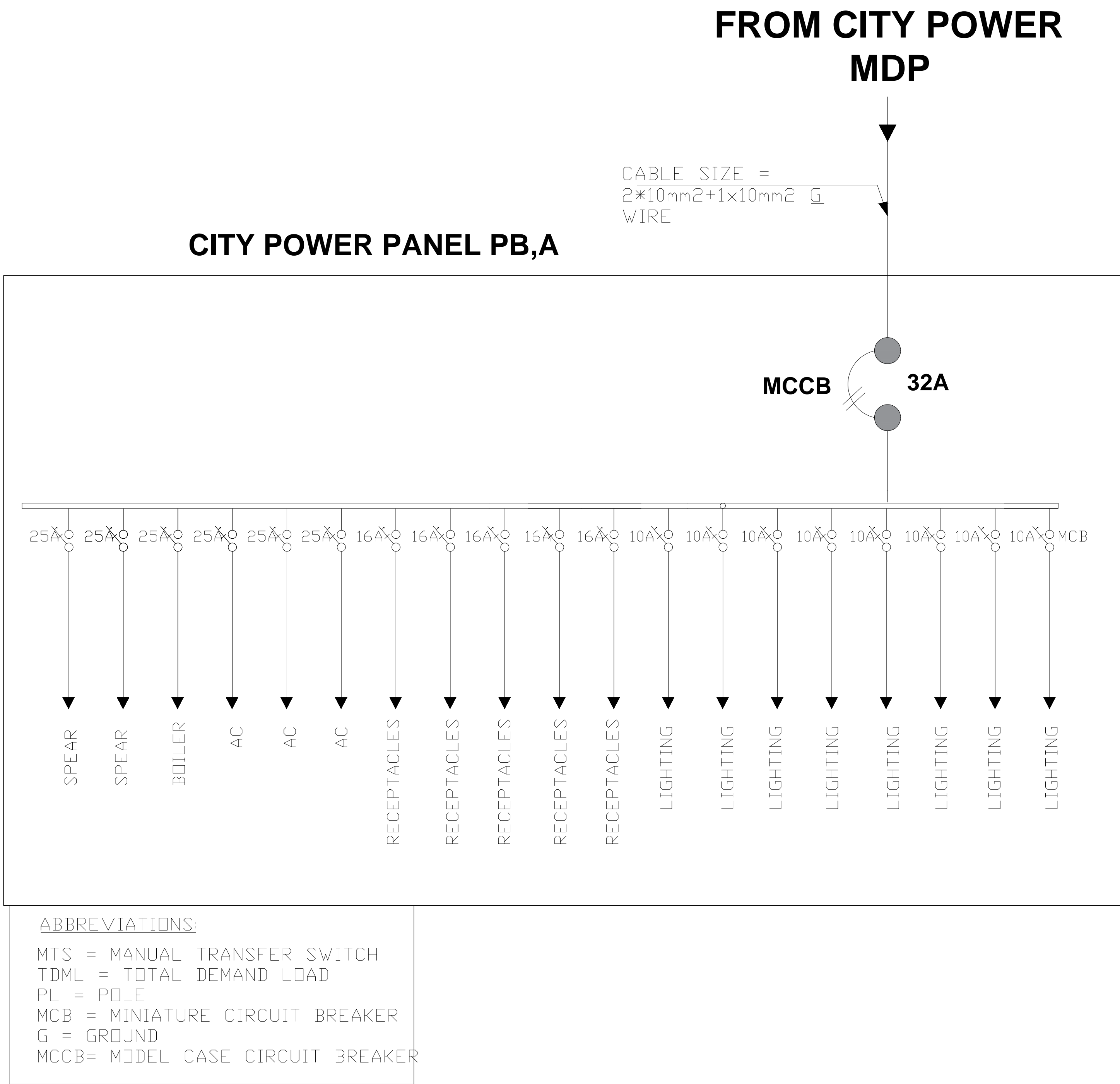
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C

B

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01 SUB PANEL BOARD DIAGRAM FOR FIRST FLOOR
E-108 1:25

PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
DRUG STOCK & OFFICE BUILDING
KABUL- AFGHANISTAN

OWNER:
AFGHAN FAMILY GUIDANCE ASSOCIATION
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MECHANICAL ENGINEER:
Abdul Hanan Zafari

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REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:
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KABUL = 253°
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- Abdul Hanan Zafari

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ISSUE DATE:
07-May-2023

DRG TITLE:

DRG REF NO:
E-108

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REV NO:
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PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
DRUG STOCK & OFFICE BUILDING
KABUL- AFGHANISTAN

OWNER:

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PLUMBING ENGINEER:

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MECHANICAL ENGINEER:

Abdul Hanan Zafari

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DRG TITLE:

DRG REF NO:

E-109

REV NO:

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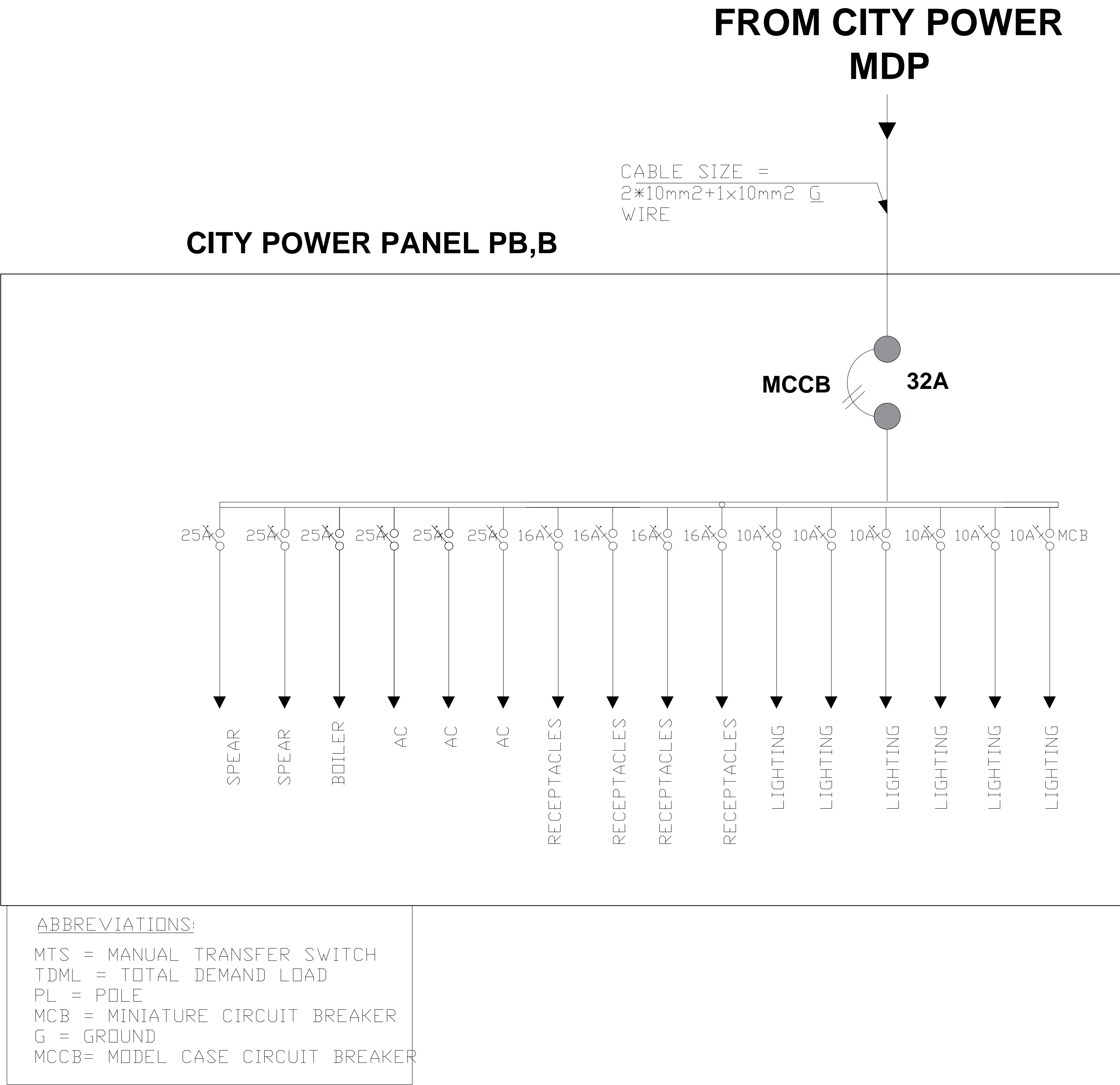
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01 SUB PANEL BOARD DIAGRAM FOR FIRST FLOOR

E-1081:25

**WATER SUPPLY & WASTEWATER
DESIGN, DRAWING AND ISOMETRIC PLAN OF
FWC & MHL OFFICE BUILDING PROJECT IN
MALALAI NATIONAL AND SPECIALIZED
HOSPITAL IN
KABUL - AFGHANISTAN**

YEAR: 2023

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سیستم آبرسانی و کانالیزسیون

نمبر صفحه	عنوان صفحه	تاریخ	ملاحظات
G-01	فهرست		
P-001	یادداشت عمومی		
P-101	پلان سیستم آبرسانی منزل اول		
P-102	پلان سیستم آبرسانی منزل دوم		
P-103	پلان سیستم آبرسانی و کانالیزسیون در ساحه		
P-104	پلان پایپ دوانی ذخیره آب		
P-201	پلان سیستم کانالیزسیون منزل اول		
P-202	پلان سیستم کانالیزسیون منزل دوم		
P-301	دیاگرام ایزومتریک آبرسانی منزل اول		
P-302	دیاگرام ایزومتریک آبرسانی منزل دوم		
P-401	دیاگرام ایزومتریک کانالیزسیون منزل اول		
P-402	دیاگرام ایزومتریک کانالیزسیون منزل دوم		
P-501	دیتایل نصب تجهیزات آبرسانی		
P-502	دیتایل نصب تجهیزات فاضلاب		
P-503	دیتایل نصب بایلر،مسلم شاور و نل هوا کش		
P-504	دیتایل نصب تجهیزات آشپز خانه		
P-505	دیتایل ذخیره آب		

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PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
KABUL- AFGHANISTAN

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Ghafoor Ghani

MECHANICAL ENGINEER:
Abdul Hanan Zafarmal

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REV	DESCRIPTION	DATE

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
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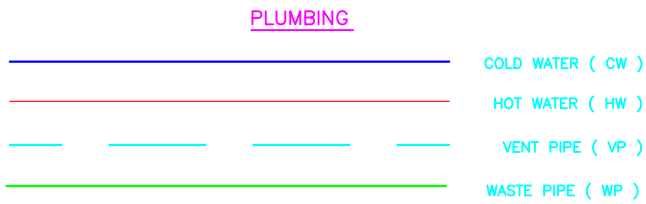
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TECHNICAL LEGEND	
SYMBOL	DESCRIPTION
	COLD WATER LINE
	HOT WATER LINE
T 	90° TEE
T.R 	90° TEE REDUCER
90°E 	90° ELBOW
45°E 	45° ELBOW
E.R.F 25x15 	90° ELBOW ROUND (female threaded)
E.R.M 	90° ELBOW ROUND (male threaded)
S.H.F 	SOCKET HEXAGONAL (female threaded)
S.H.M 	SOCKET HEXAGONAL (male threaded)
S.R.F 	SOCKET ROUND (female threaded)
S.R.M 	SOCKET ROUND (male threaded)
G.V 	GATE VALVE
CH.V 	CHECK VALVE
R. 	REDUCER
M.A 	MALE ADAPTOR
N 	NIPPLE
BU 	HEX BUSHING
T.R.F 	90° TEE ROUND (female threaded)
T 	90° TEE
A 	ANGEL VALVE
P 	PLUG
L.V	LAVATORY
W.C	WATER CLOSET
H.B	HOSE BIB
SH	SHOWER
D	PIPE DIAMETER (mm)
F.D	FLOOR DRAIN
W.C	WATER CLOSET
L.V	LAVATORY
F.C.O	FLOOR CLEAN OUT
V.R	VENT RISER

PLUMBING FIXTURE SCHEDULE										
SYMBOL	FIXTURE NAME	C.W. (MM)	H.W. (MM)	WASTE (MM)	VENT (MM)	DRAIN		WATER C.L	HIGH	REMARKS
						I.L	C.L			
	WESTERN WATER CLOSET BACK OUTLET OR FLOOR OUTLET	15	—	100	50	+0.055	+0.105	water+0.300	+0.375	
	EASTERN WATER CLOSET WITH FLASH TANK	15	—	100	50	−0.295	−0.245	water+0.300	—	
	LAVATORY WALL OR COUNTER MOUNTED	15	15	40	50	+0.535	+0.560	+0.495	+0.850	LOW FLOW EFFICIENT FIXTURE
	SHOWER	15	15	50	50	—	—	+1.220	+1.930	
	SERVICE SINK	15	15	50	50	−0.245	−0.205	+0.600	—	LOW FLOW EFFICIENT FIXTURE
	KITCHEN SINK (SINGLE BOWL)		15	50	50	+0.455	+0.480	+0.500	+0.900	

SYMBOL	DESCRIPTION
	SEWER PIPE LINE
	SEWER FLOW
F.D 	FLOOR DRAIN
F.C.O 	FLOOR CLEAN OUT
V.R.C 	VENT RISER COVER
	VENT RISER PIPE
R 	REDUCER
	TRAP

VENT INSTALLATION:
FOR BUILDINGS WITH CONCRETE SLAB ROOF VENT RISERS
SHOULD BE COLLECTED BELOW THE FLOOR (ABOVE THE SEWERS) ACCORDING
TO DRAWINGS.



ELECTICAL HOT WATER HEATER SCHEDULE											
TAG NO.	SERVICE LOCATON	BUILDING NAME	NO	STORAGE CAPACITY (L)	HEIGHT (mm)	DIAMETER (mm)	ELECTRICAL REQUIRMENTS				REMARKS
							KW INPUT	VOL TS	PH	HZ	
EW H-01 TI TRONIC 50	TOILET ROOM	JANAT GUL KHAN KOCHI HOSPITAL, KABUL	10	50	553	450	2 KW	220-240	1	50	
EW H-02 TI TRONIC 80	TOILET ROOM	JANAT GUL KHAN KOCHI HOSPITAL, KABUL	1	80	758	450	2 KW	220-240	1	50	

- یاد داشت ها
- تمام اندازه ها به ملی متر امیت در غیر آن صورت ذکر می شود
 - تمام نال های آب سرد در داخل ساختمان از نوع PPR PIPE PN 16 می باشند و تمام نل های آب گرم از نوع PPR PIPE PN 16 بوده و برای عایق حرارتی شود
 - تمام نل های فاضلاب یا کانالیزاسیون از نوع PVC ASTM1785 SCH40 می باشد
 - در تمام خروجی ها از تجهیزات TRAP-نصب گردیده تا از انتشار گسازات جلوگیری شود
 - در صورت نیاز تمام نل ها برای جلوگیری از یخ زدگی و عرق یا شبنم عایق شود
 - تمام شیرآب های آب سرد به سمت راست و آب گرم به سمت چپ نصب شود
 - تمام خروجی های فاضلاب از ساختمان به فاصله سه متر از دیوار ساختمان به سمتیک یا منبغ دیگری ریزش فاضلاب وصل می شود
 - برای جلوگیری از یخ زدگی تمام نل های آب و فاضلاب بیرون از ساختمان به عمق0.8متر نصب گردد
 - شیرآب سرد به ارتفاع300 ملی متر به سمت راست از دیوار جانبی نصب می گردد شیرآب با بپای نرم و انعطاف پذیر و نازل اسپری تهی گردد طوری که استفاده کنند بحتواند بالای توالیت را بشوید
 - توالیت ها به جهت شمال و جنوب نصب می گردند و توالیت ها مرکز به سمت شرق و غرب نصب نگردد
 - شیرآب های گردن قاز مانزند نیاز نیست و نیاید استفاده شود

PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:
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PLUMBING ENGINEER:
Ghafoor Ghani

MECHANICAL ENGINEER:
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REV	DESCRIPTION	DATE

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DESIGN / PROJECT STATUS:

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DRG TITLE:

DRG REF NO:

P_001

REV NO:

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PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
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07-May-2023

DRG TITLE:

WATER DISTRIBUTION PLAN

DRG REF NO:

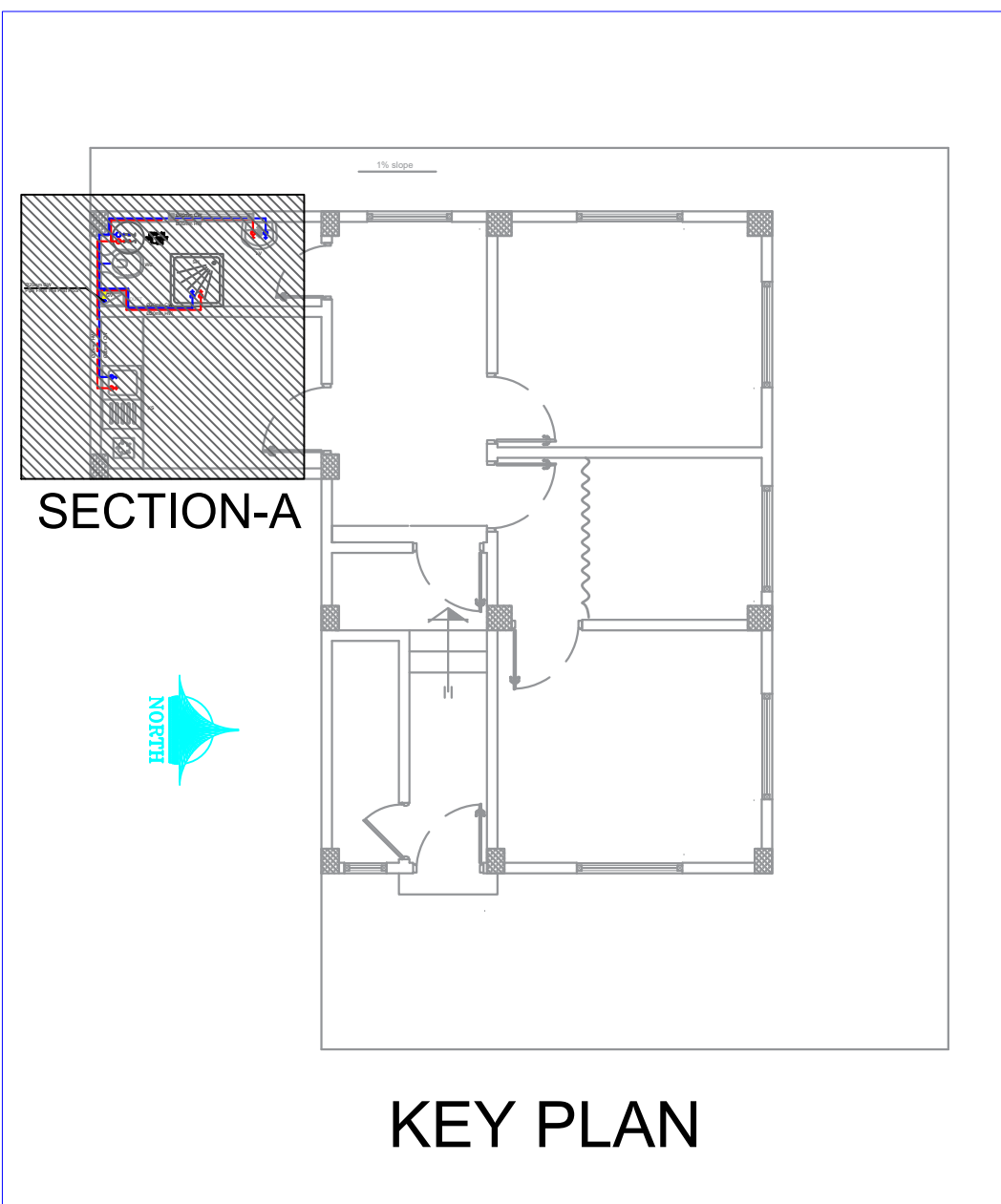
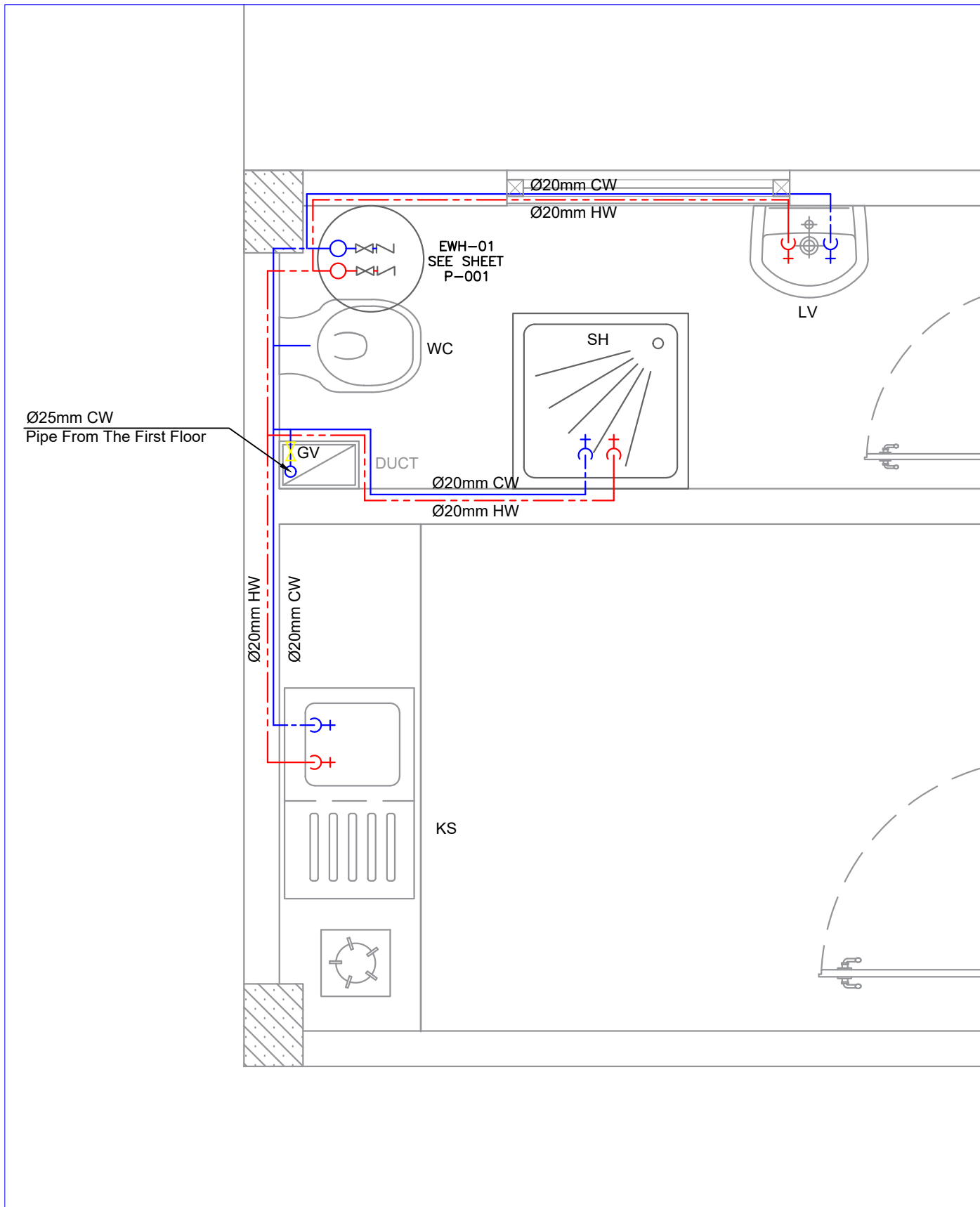
P_101

REV NO:

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TECHNICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COLD WATER LINE	HW	HOT WATER
	HOT WATER LINE	CW	COLD WATER
GV	GATE VALVE		HOT WATER FLOW DIRECTION
EWH	ELECTRICAL WATER HEATER		COLD WATER FLOW DIRECTION
KS	KITCHEN SINK		

01 WATER DISTRIBUTION PLAN
P_101 SECTION - A SCALE: 1:16

Water distribution plan of first floor

PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:
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ARCHITECT:

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STRUCTURAL ENGINEER:

Nasratullah Nasrat

ELECTRICAL ENGINEER:

Abdul Hanan Zafarmal

PLUMBING ENGINEER:

Ghafoor Ghani

MECHANICAL ENGINEER:

Abdul Hanan Zafarmal

DRAWING ISSUE HISTORY

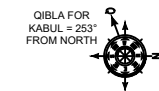
REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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KEYPLAN:



DRAWN BY:

Nasratullah

CHECKED BY:

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REVIEWED BY:

-

APPROVED BY:

-

FILE REF. / NAME:

P_101.dwg

SCALE:

AS NOTED

ISSUE DATE:

07-May-2023

DRG TITLE:

WATER DISTRIBUTION PLAN

DRG REF NO:

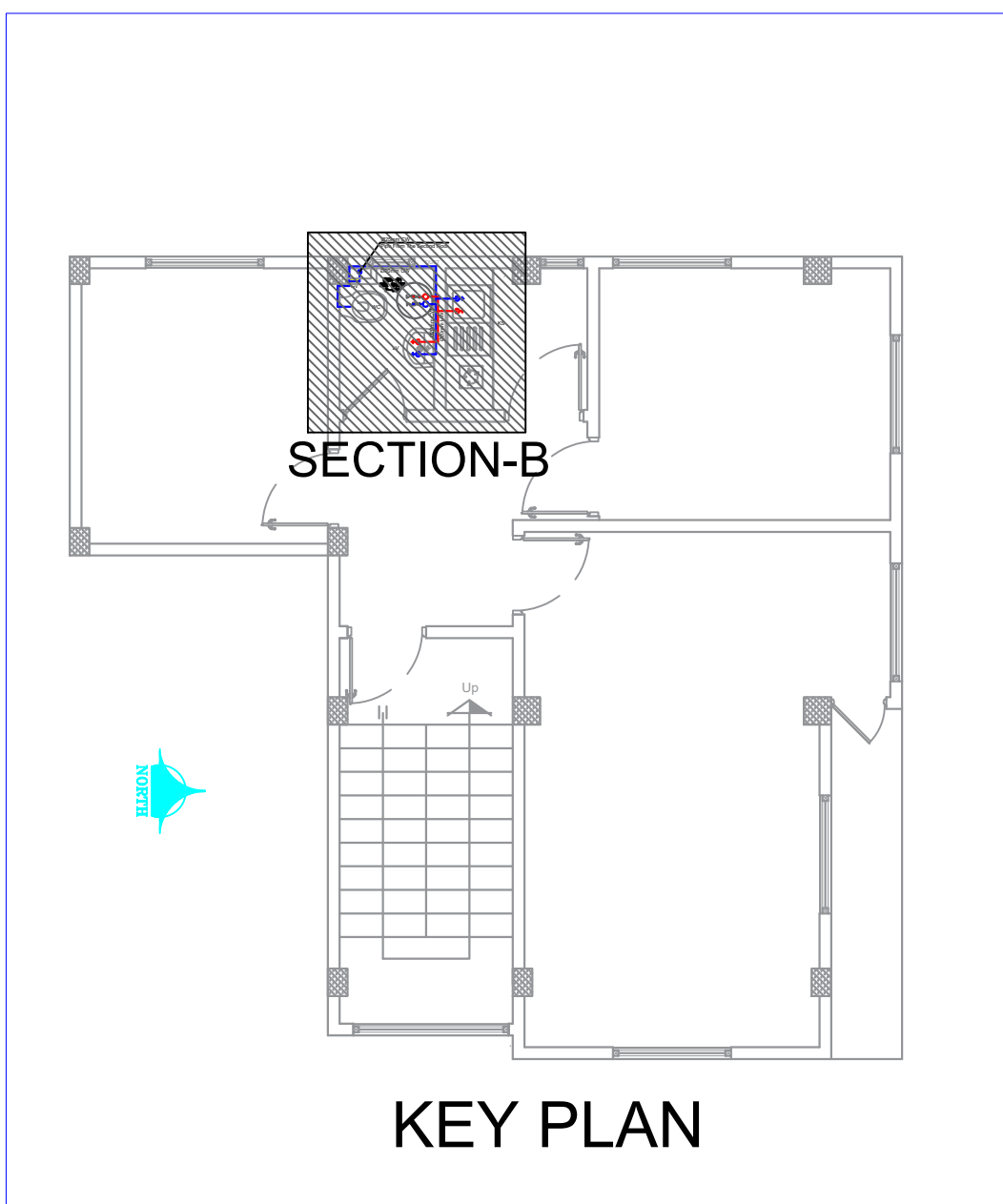
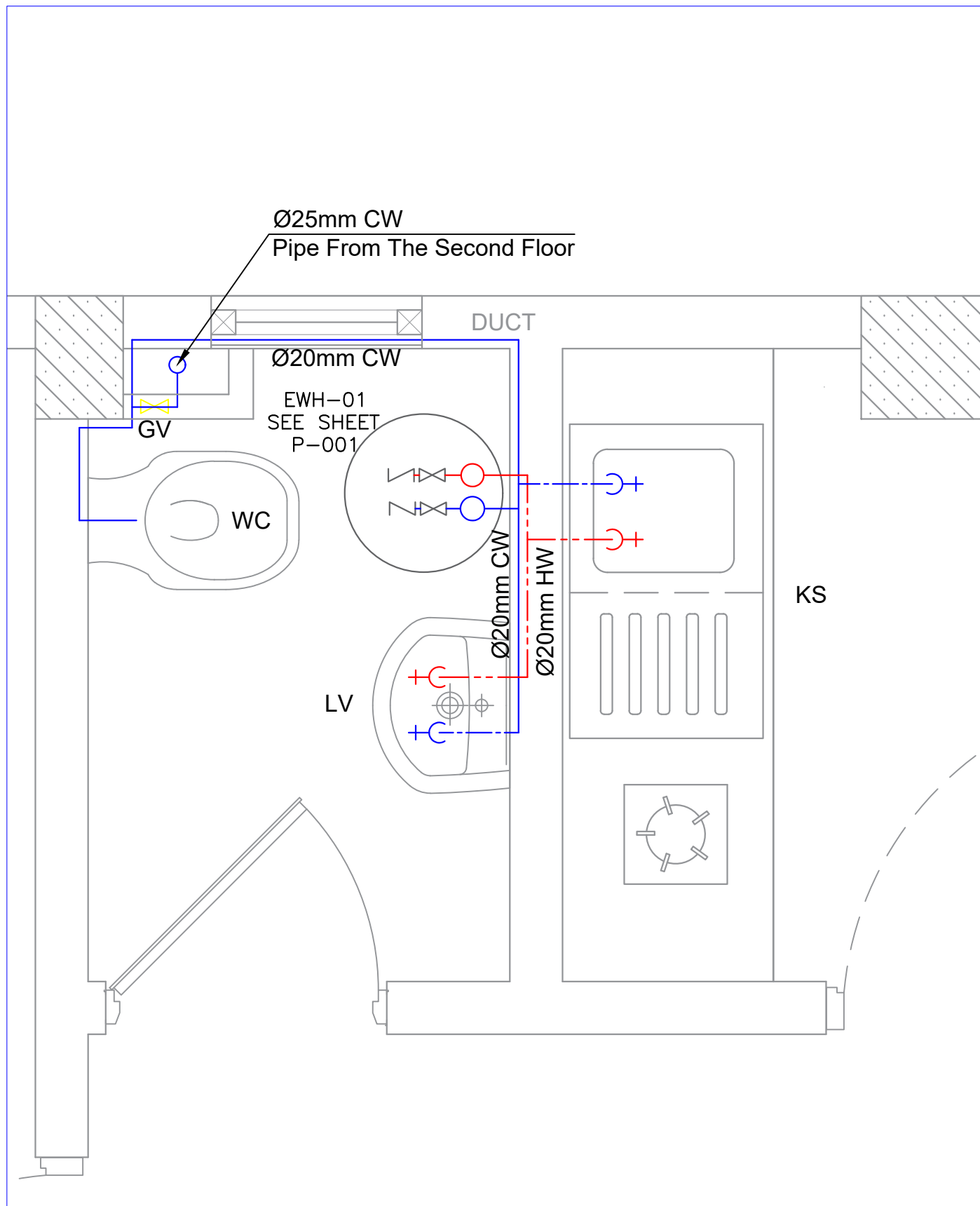
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REV NO:

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SHEET 04 of 17

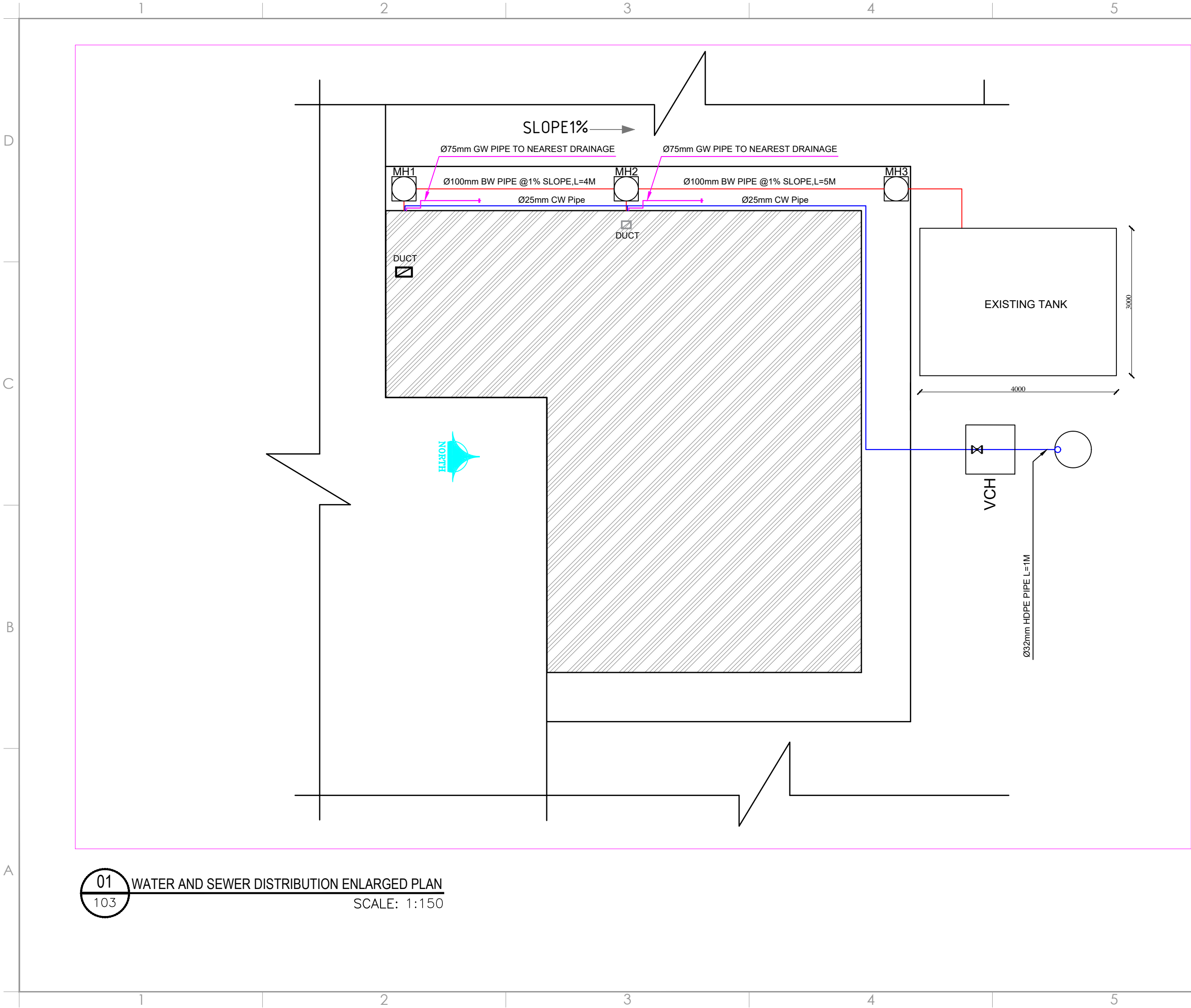
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TECHNICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COLD WATER LINE	HW	HOT WATER
	HOT WATER LINE	CW	COLD WATER
GV	GATE VALVE		HOT WATER FLOW DIRECTION
EWH	ELECTRICAL WATER HEATER		COLD WATER FLOW DIRECTION
KS	KITCHEN SINK		

01 WATER DISTRIBUTION PLAN
P_102 SECTION - B SCALE: 1:16

Water distribution plan of second floor



PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:
AFGHAN FAMILY GUIDANCE ASSOCIATION
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PLUMBING ENGINEER:
Ghafoor Ghani

MECHANICAL ENGINEER:
Abdul Hanan Zafarmal

DRAWING ISSUE HISTORY		
REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:
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REVIEWED BY: -	
APPROVED BY: -	

FILE REF. / NAME:
P_103.dwg

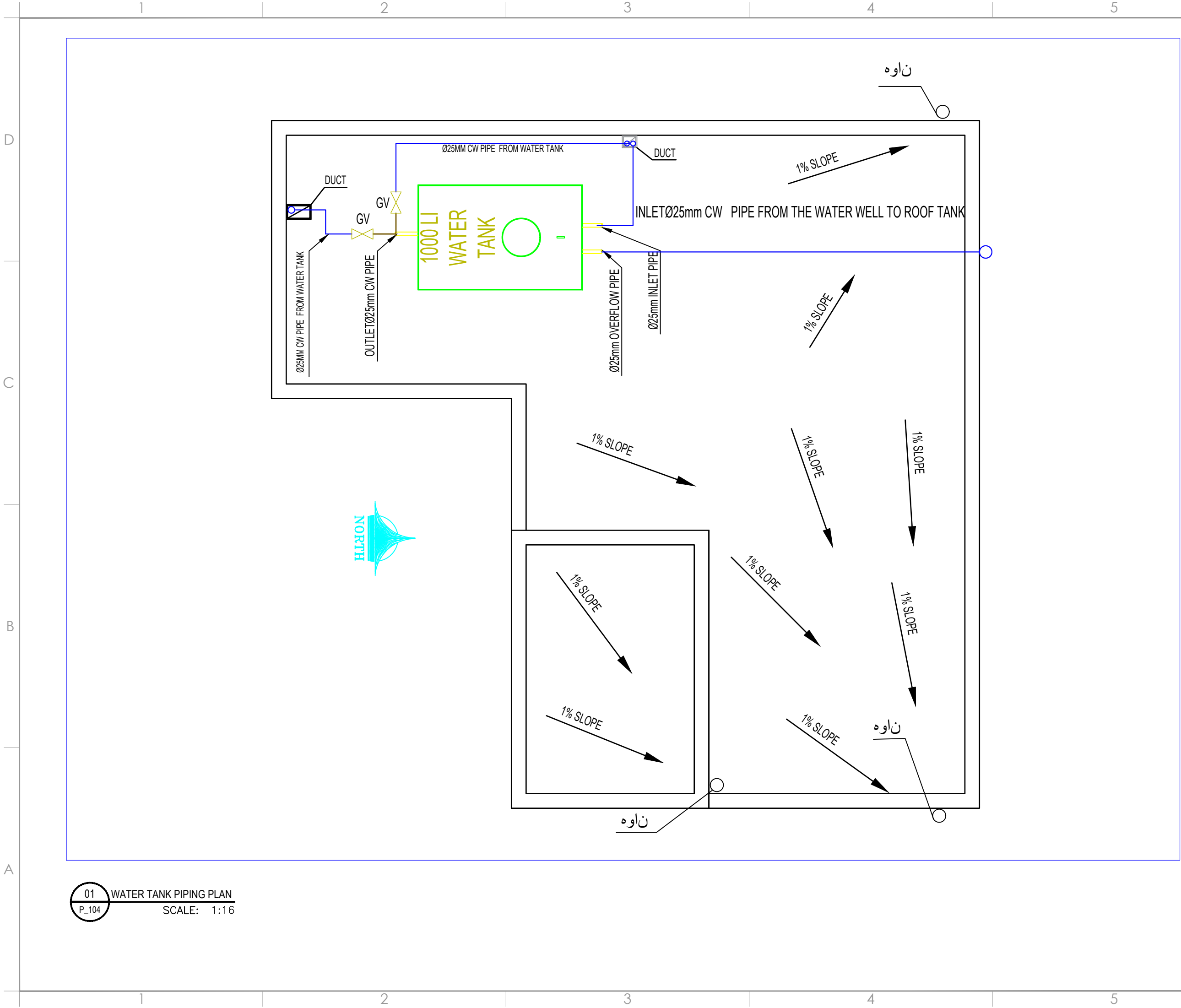
SCALE:
AS NOTED

ISSUE DATE:
07-May-2023

DRG TITLE:

W & S DISTRIBUTION ENLARGED PLAN

DRG REF NO: P_103	REV NO: 0
SHEET 05 of 17	



PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:
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PLUMBING ENGINEER:
Ghafoor Ghani
MECHANICAL ENGINEER:
Abdul Hanan Zafarmal

DRAWING ISSUE HISTORY		
REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:
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KEYPLAN:

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KABUL = 253°
FROM NORTH

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REVIEWED BY: -	
APPROVED BY: -	

FILE REF. / NAME: P_104.dwg	
SCALE: AS NOTED	ISSUE DATE: 07-May-2023
DRG TITLE: WATER TANK PIPING PLAN	

DRG REF NO: P_104	REV NO: 0
SHEET 06 of 17	

PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
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PLUMBING ENGINEER:

Ghafoor Ghani

MECHANICAL ENGINEER:

Abdul Hanan Zafarmal

DRAWING ISSUE HISTORY

REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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KEYPLAN:



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SEAL/SIGNATURE:

FILE REF. / NAME:

P_201.dwg

SCALE:

AS NOTED

ISSUE DATE:

07-May-2023

DRG TITLE:

SEWER DISTRIBUTION PLAN

DRG REF NO:

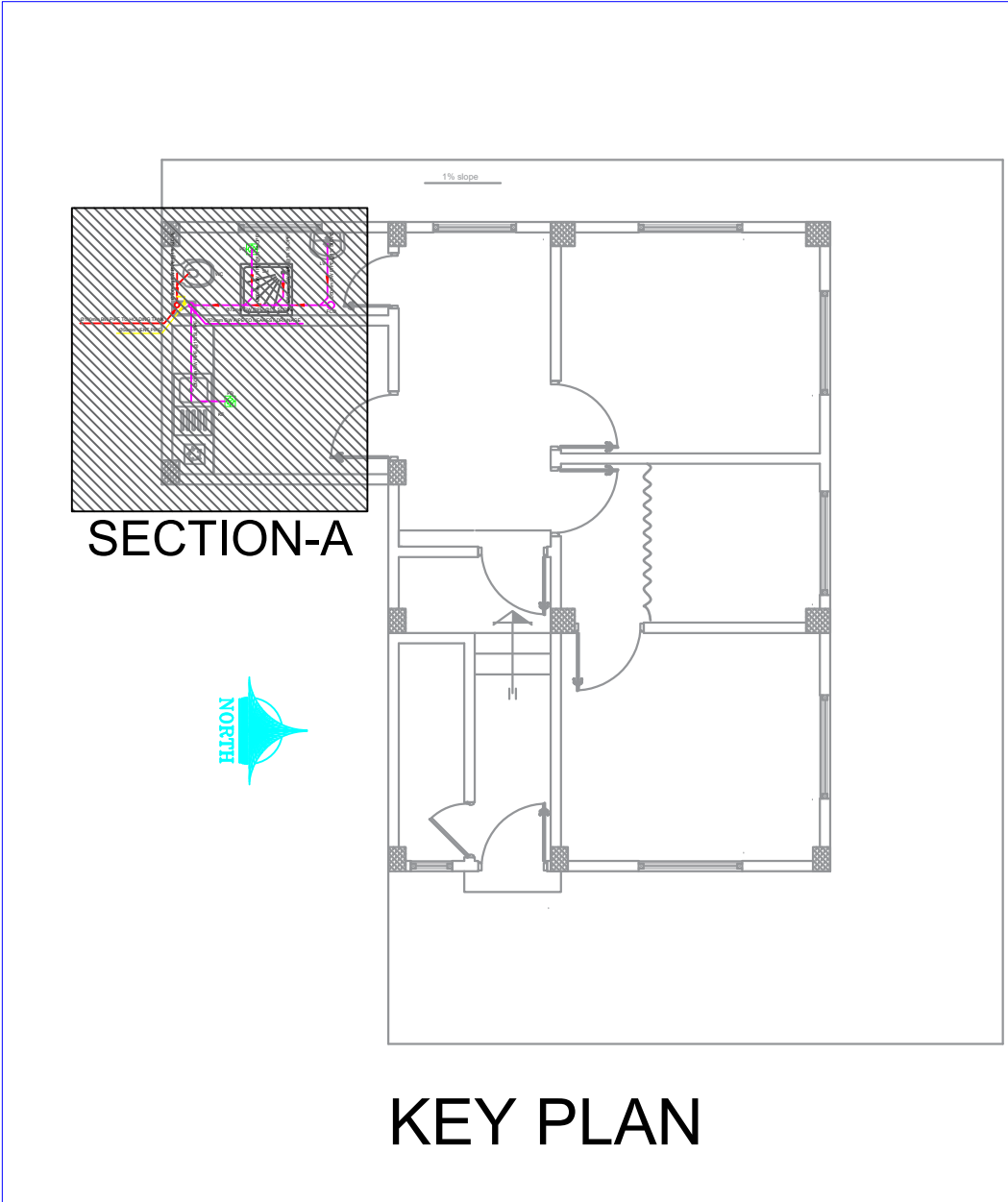
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REV NO:

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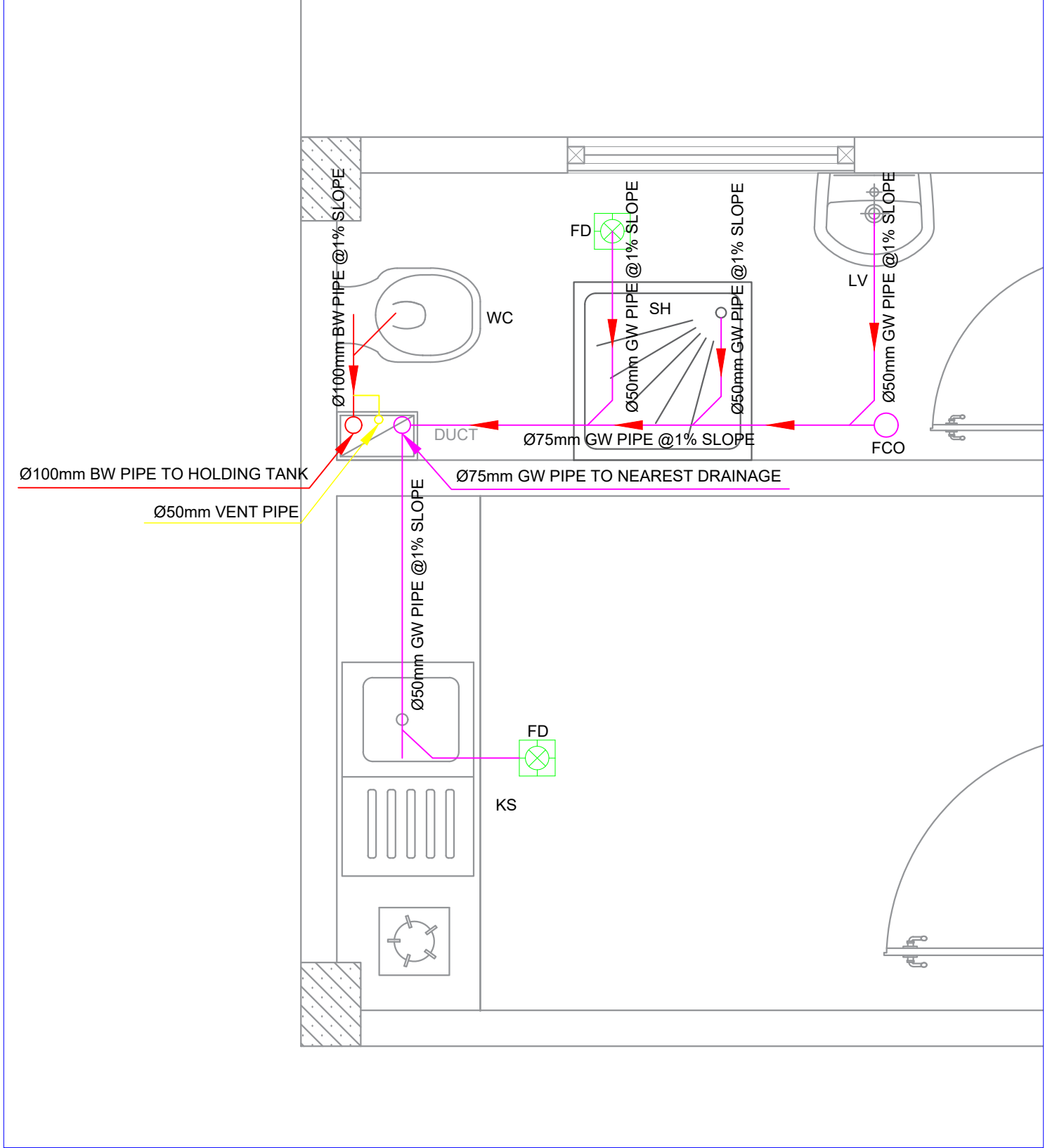
SHEET 07 of 17

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TECHNICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SEWER PIPE	FD	FLOOR DRAIN
WC	WATER CLOSET	LV	LAVATORY
SH	SHOWER		FLOW DIRECTION
FCO	FLOOR CLEANOUT	KS	KITCHEN SINK
GW	GRAY WATER		
BW	BLACK WATER		

First floor sewer distribution plan



01 SEWER DISTRIBUTION PLAN
P_201 SECTION - A SCALE: 1:16

PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
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AFGHAN FAMILY GUIDANCE ASSOCIATION
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CELL #:



DEVELOPER:
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PLUMBING ENGINEER:
Ghafoor Ghani

MECHANICAL ENGINEER:
Abdul Hanan Zafarmal

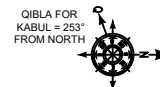
DRAWING ISSUE HISTORY

REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:
FOR TENDER ONLY

KEYPLAN:



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- Nasratullah

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REVIEWED BY:

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SEAL/SIGNATURE:

FILE REF. / NAME:
P_201.dwg

SCALE:
AS NOTED

ISSUE DATE:
07-May-2023

DRG TITLE:

SEWER DISTRIBUTION PLAN

DRG REF NO:

P_202

REV NO:

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DRAWING NOT TO BE USED FOR CONSTRUCTION UNTIL STAMPED & SIGNED BY CONSULTANTS AND ISSUED FOR CONSTRUCTION

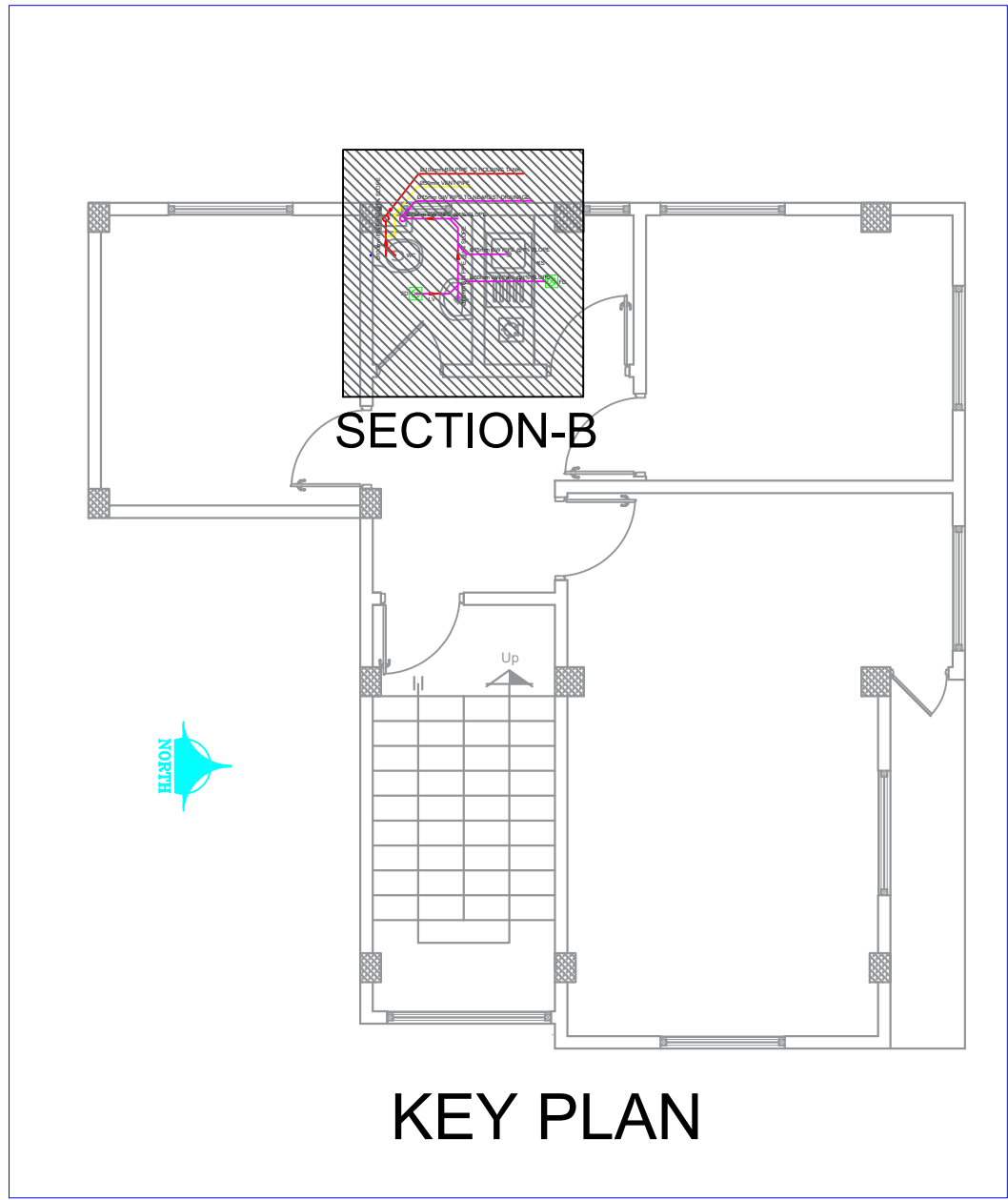
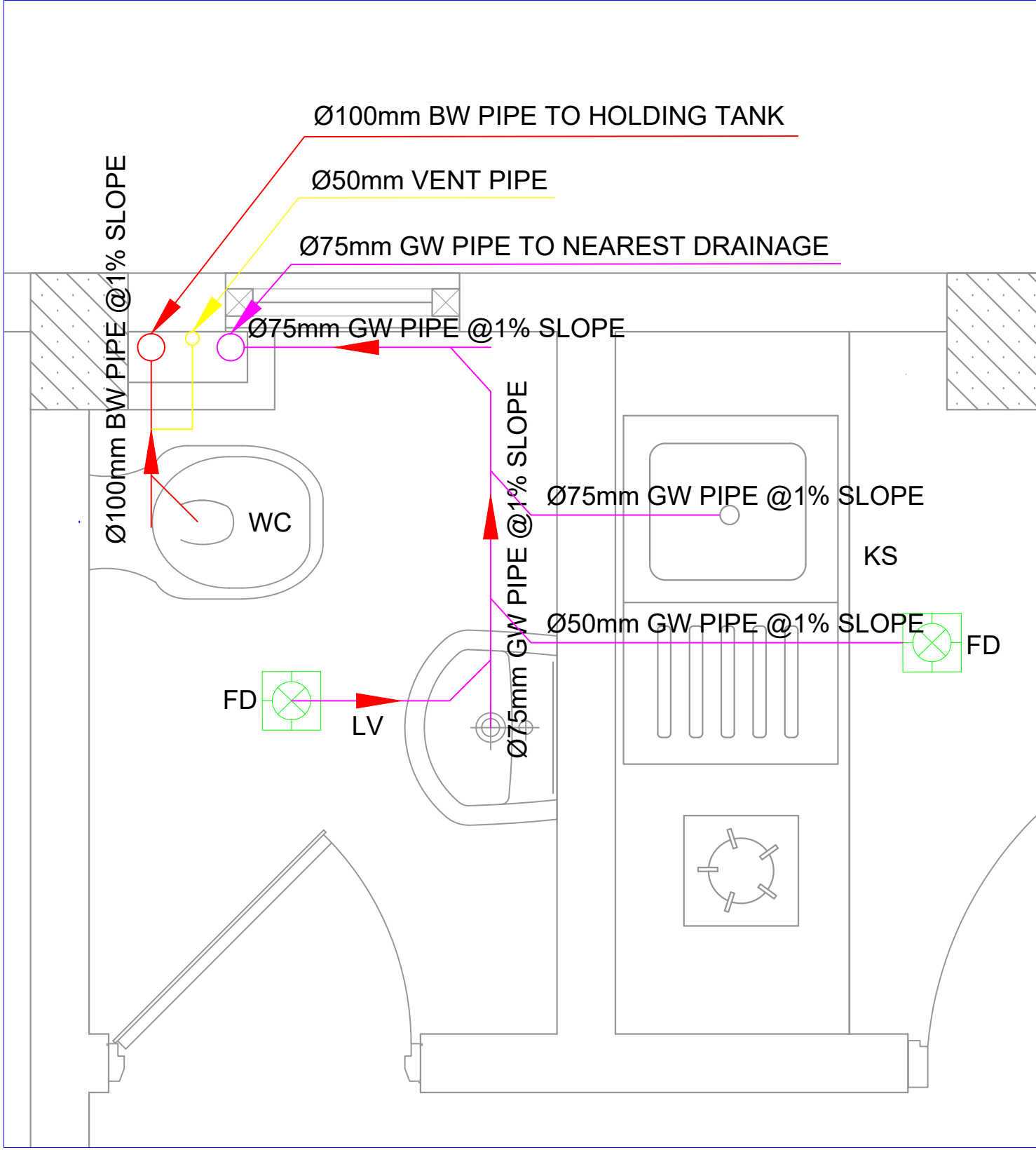
CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS & OMISSIONS TO THE CONSULTANTS

D

C

B

A



TECHNICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SEWER PIPE	FD	FLOOR DRAIN
WC	WATER CLOSET	LV	LAVATORY
SH	SHOWER		FLOW DIRECTION
FCO	FLOOR CLEANOUT	KS	KITCHEN SINK
GW	GRAY WATER		
BW	BLACK WATER		

01 SEWER DISTRIBUTION PLAN
P_202 SECTION - B SCALE: 1:16

Second floor sewer distribution plan

PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
KABUL- AFGHANISTAN

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E-MAIL:
CELL #:



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PLUMBING ENGINEER:
Ghafoor Ghani

MECHANICAL ENGINEER:
Abdul Hanan Zafarmal

DRAWING ISSUE HISTORY

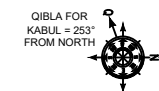
REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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KEYPLAN:



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- Nasratullah

CHECKED BY:

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REVIEWED BY:

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SEAL/SIGNATURE:

FILE REF. / NAME:

P_301.dwg

SCALE:

AS NOTED

ISSUE DATE:

07-May-2023

DRG TITLE:

WATER DISTRIBUTION ISOMETRIC PLAN

DRG REF NO:

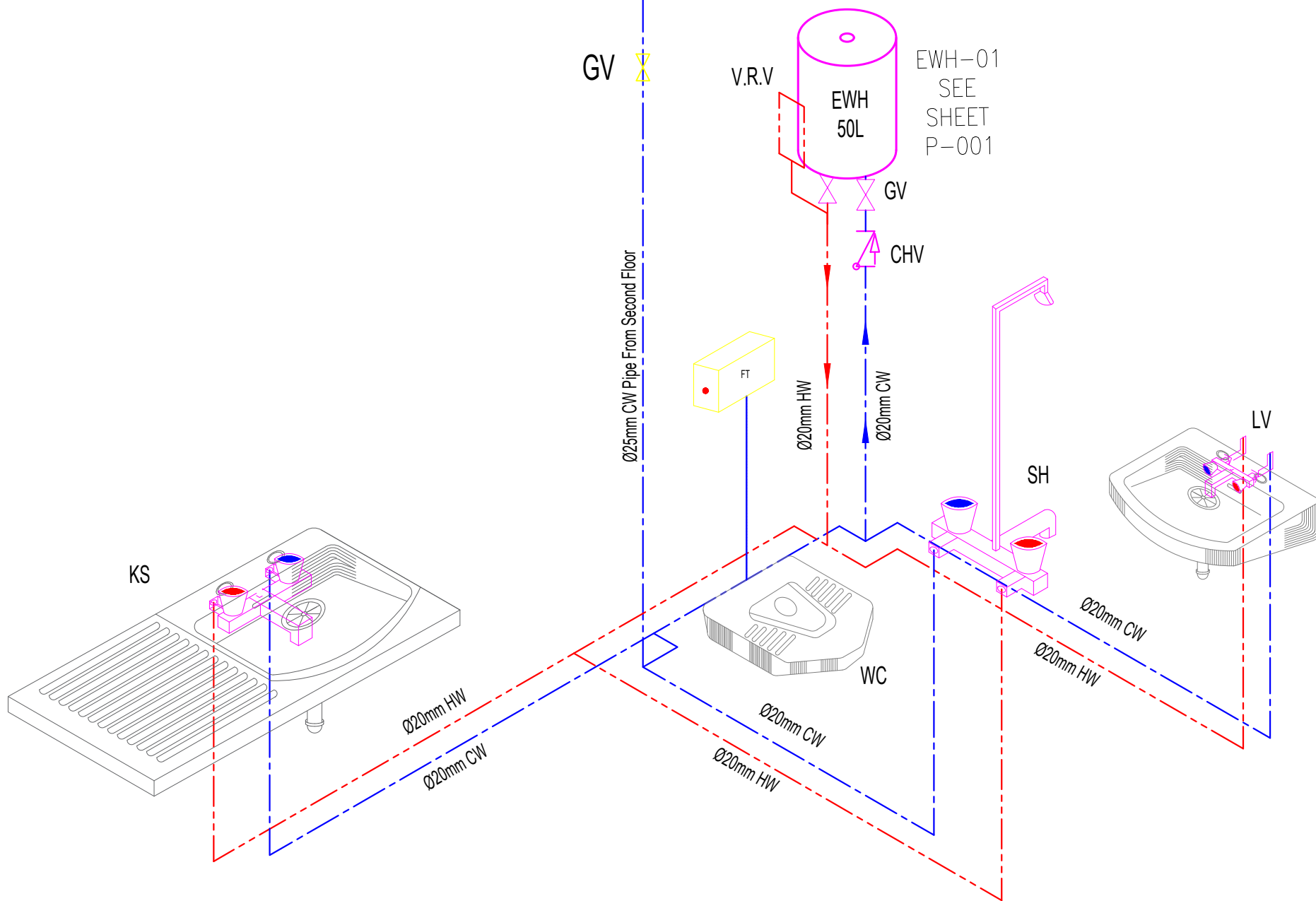
P_301

REV NO:

0

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01 WATER DISTRIBUTION ISOMETRIC PLAN
P_301 SECTION - A SCALE: 1:16

First floor water distribution isometric plan

PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

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ARCHITECT:

Naeem Ahmadi

STRUCTURAL ENGINEER:

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ELECTRICAL ENGINEER:

Abdul Hanan Zafarmal

PLUMBING ENGINEER:

Ghafoor Ghani

MECHANICAL ENGINEER:

Abdul Hanan Zafarmal

DRAWING ISSUE HISTORY

REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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KEYPLAN:



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- Nasratullah

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SEAL/SIGNATURE:

FILE REF. / NAME:

P_302.dwg

SCALE:

AS NOTED

ISSUE DATE:

07-May-2023

DRG TITLE:

W DISTRIBUTION ISOMETRIC PLAN

DRG REF NO:

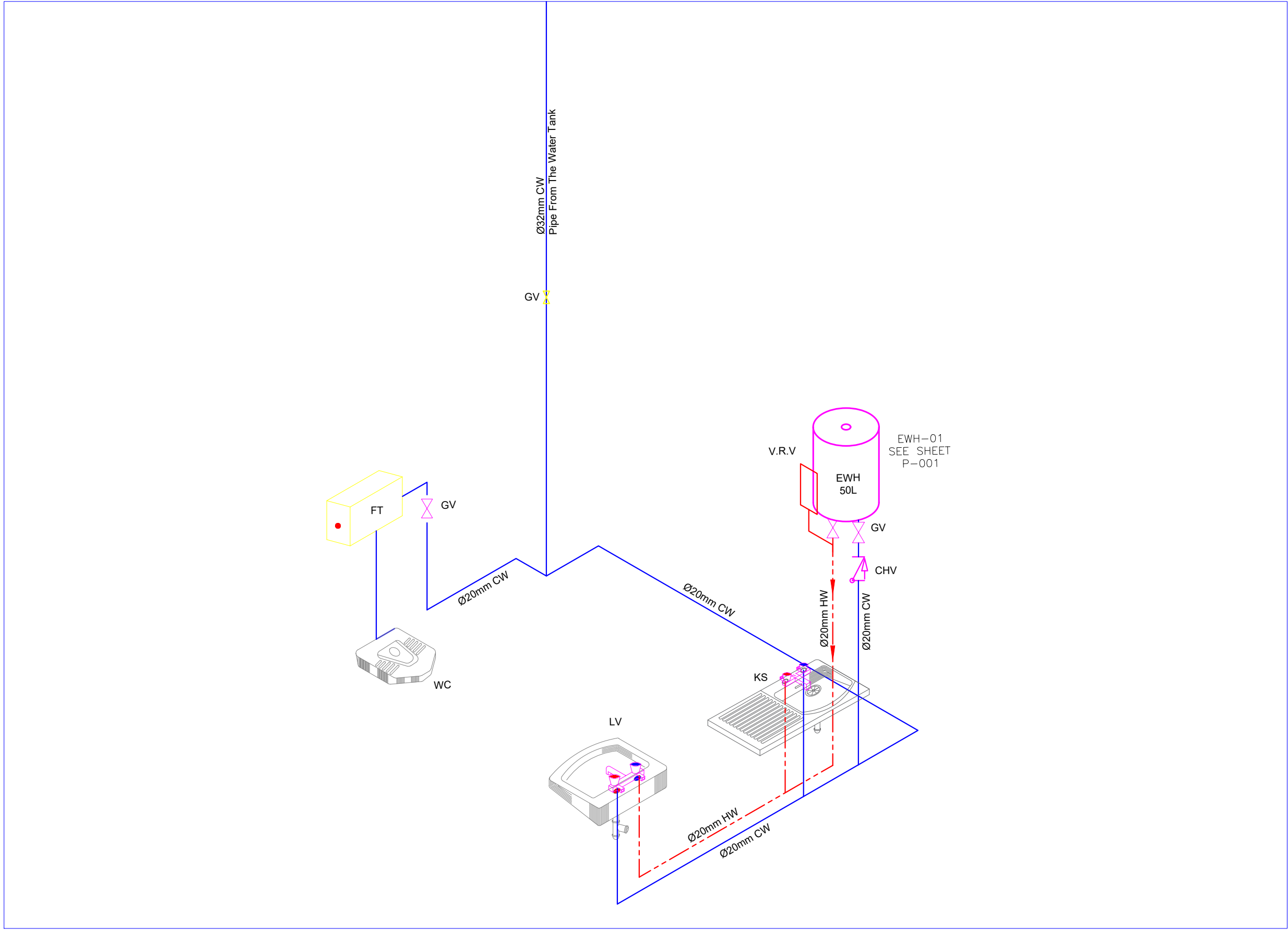
P_302

REV NO:

0

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01 WATER DISTRIBUTION ISOMETRIC PLAN
P_302 SECTION - B SCALE: 1:16

Second floor water ditribution isometric plan

PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:

MOSTAFA NAEEM AHMADI ROAD &
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ARCHITECT:

Naeem Ahmadi

STRUCTURAL ENGINEER:

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PLUMBING ENGINEER:

Ghafoor Ghani

MECHANICAL ENGINEER:

Abdul Hanan Zafarmal

DRAWING ISSUE HISTORY

REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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KEYPLAN:



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- Nasratullah

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REVIEWED BY:

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APPROVED BY:

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SEAL/SIGNATURE:

FILE REF. / NAME:

P_401.dwg

SCALE:

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ISSUE DATE:

07-May-2023

DRG TITLE:

SITE PLAN

DRG REF NO:

P_401

REV NO:

0

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D

C

B

A

STATIC VENT
PIPE-Ø50mm

Ø50mm VENT PIPE

WC

Ø100mm BW

Ø100mm PVC PIPE CONNECTED
TO SEPTIC TANK

Ø75mm GW PIPE TO
NEAREST DRAINAGE

Ø75mm GW PIPE @1% SLOPE

Ø50mm PIPE

Ø50mm PIPE

Ø50mm PIPE

FD

SH

FCO

LV

01

SEWER DISTRIBUTION ISOMETRIC PLAN

P_401

SECTION - A

SCALE: 1:16

First floor sewer distribution isometric plan

PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
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PLUMBING ENGINEER:

Ghafoor Ghani

MECHANICAL ENGINEER:

Abdul Hanan Zafarmal

DRAWING ISSUE HISTORY

REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

FOR TENDER ONLY

KEYPLAN:



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- Nasratullah

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SEAL/SIGNATURE:

FILE REF. / NAME:

P_401.dwg

SCALE:

AS NOTED

ISSUE DATE:

07-May-2023

DRG TITLE:

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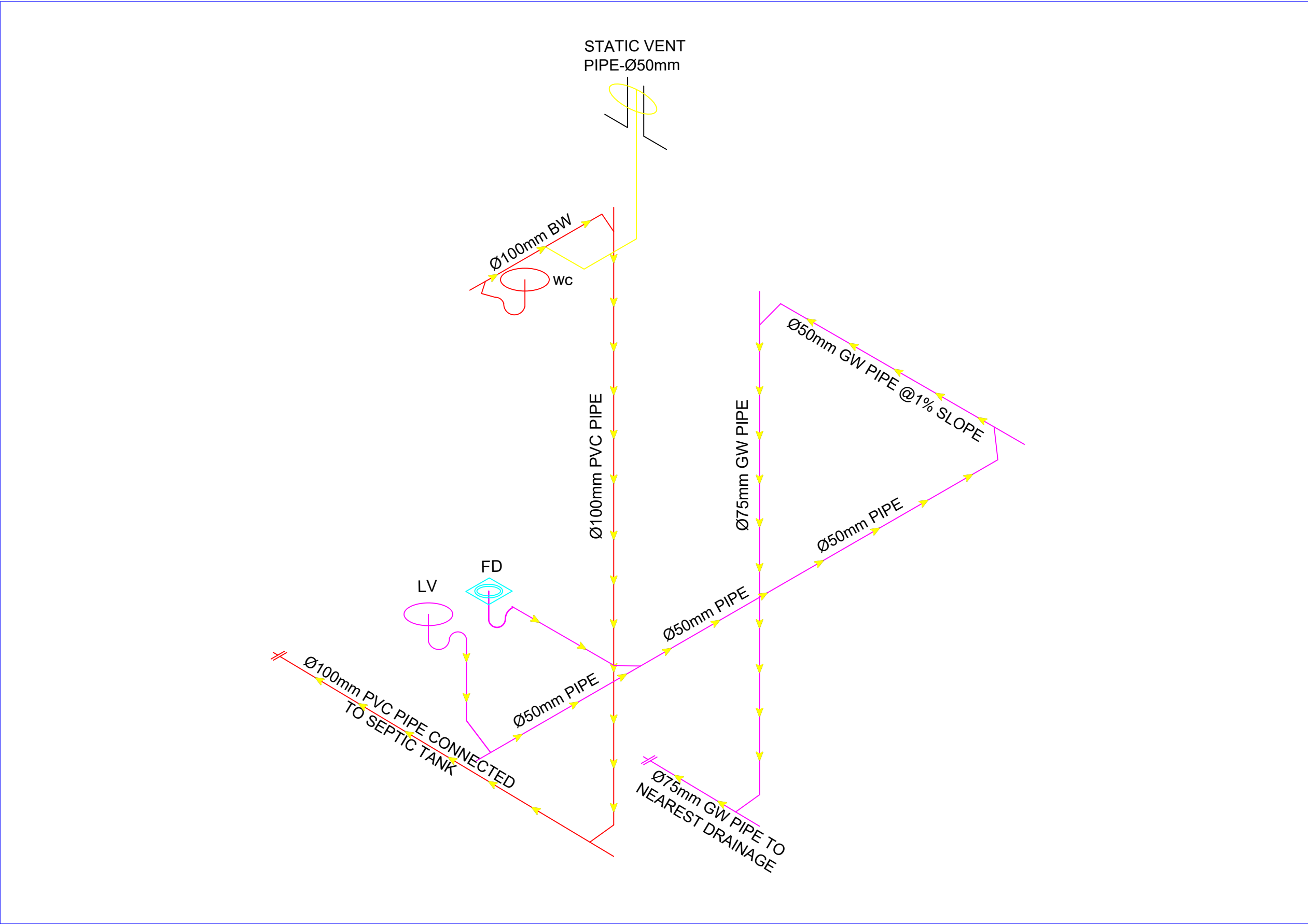
P_402

REV NO:

0

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01 SEWER DISTRIBUTION ISOMETRIC PLAN
P_402 SECTION - B SCALE: 1:16

Second floor sewer distribution isometric plan

PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
KABUL - AFGHANISTAN

OWNER:

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PLUMBING ENGINEER:

Ghafoor Ghani

MECHANICAL ENGINEER:

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DRAWING ISSUE HISTORY

REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:

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FILE REF. / NAME:

P-501.dwg

SCALE:

AS NOTED

ISSUE DATE:

07-May-2023

DRG TITLE:

DETAIL

DRG REF NO:

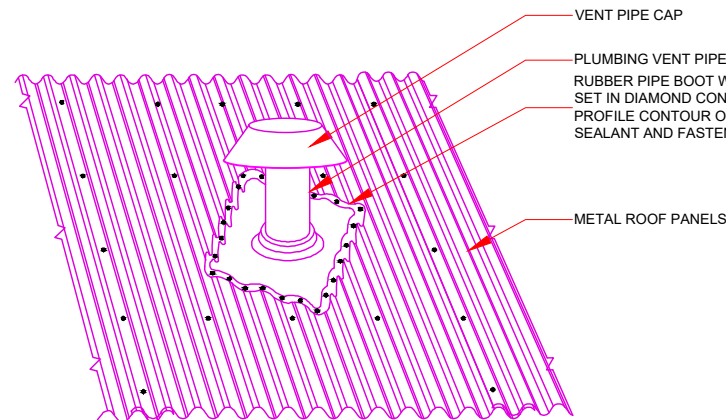
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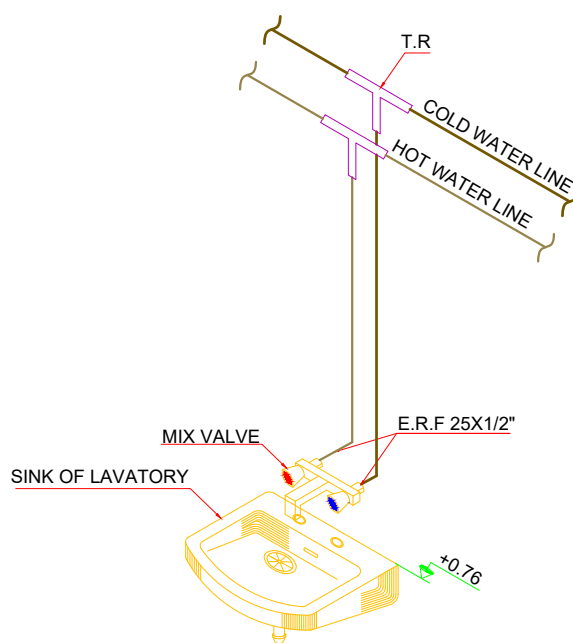
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SHEET 13 of 17

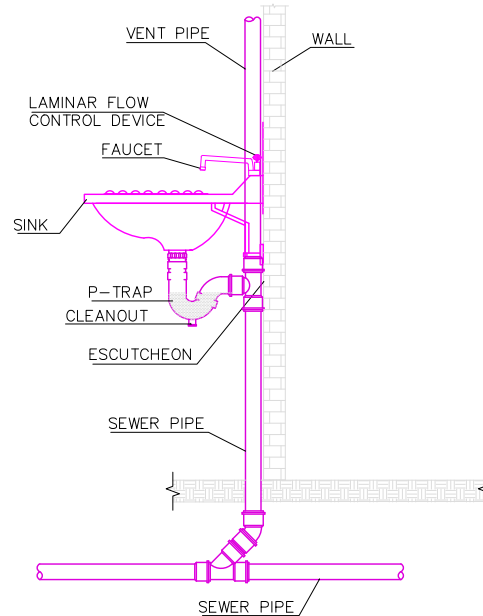
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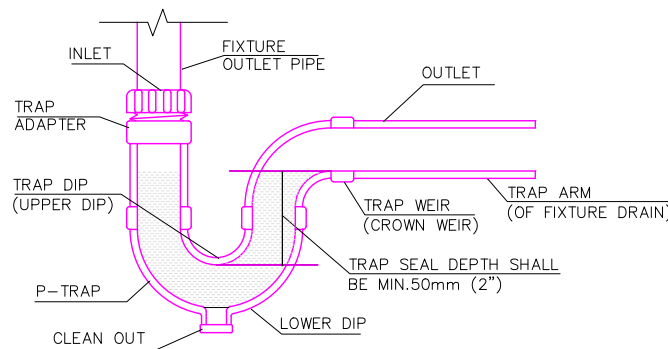
03 PLUMBING VENT THROUGH ROOF DETAIL
P-501 SCALE: NTS



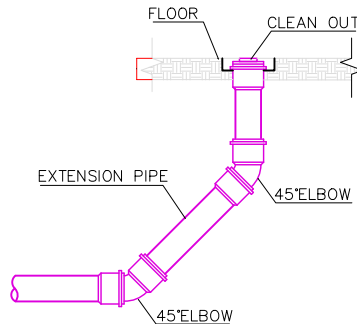
01 LAVATORY DETAIL
P-501 SCALE: NTS



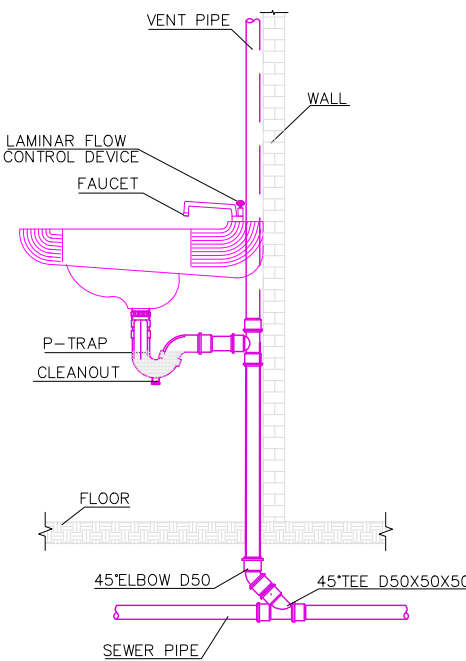
02 LAVATORY PLUMBING DETAIL
P-501 SCALE: NTS



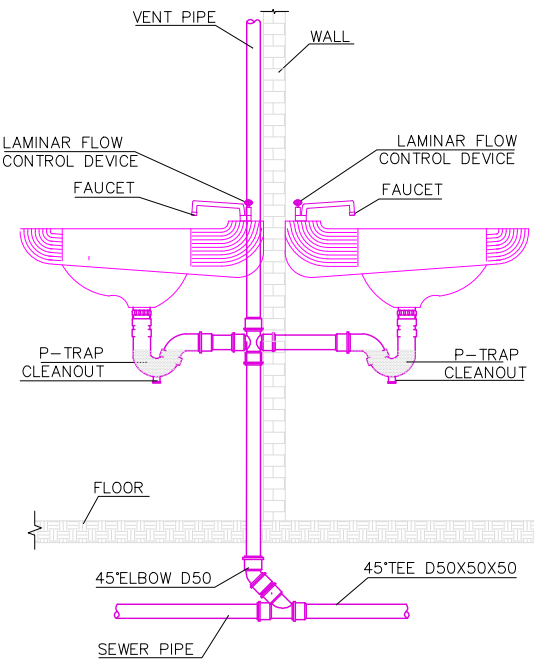
04 P-TRAP DETAIL
P-501 SCALE: NTS



05 CLEANOUT DETAIL
P-501 SCALE: NTS



06 TYPICAL LAVATORY DETAIL
P-501 SCALE: NTS



07 BACK TO BACK LAVATORY DETAIL
P-501 SCALE: NTS

PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
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PLUMBING ENGINEER:
Ghafoor Ghani

MECHANICAL ENGINEER:
Abdul Hanan Zafarmal

DRAWING ISSUE HISTORY		
REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:
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KEYPLAN:



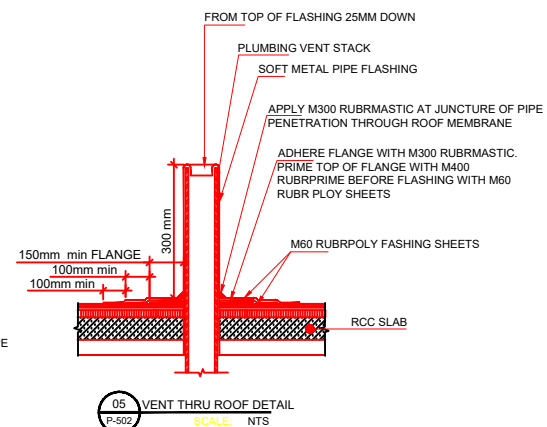
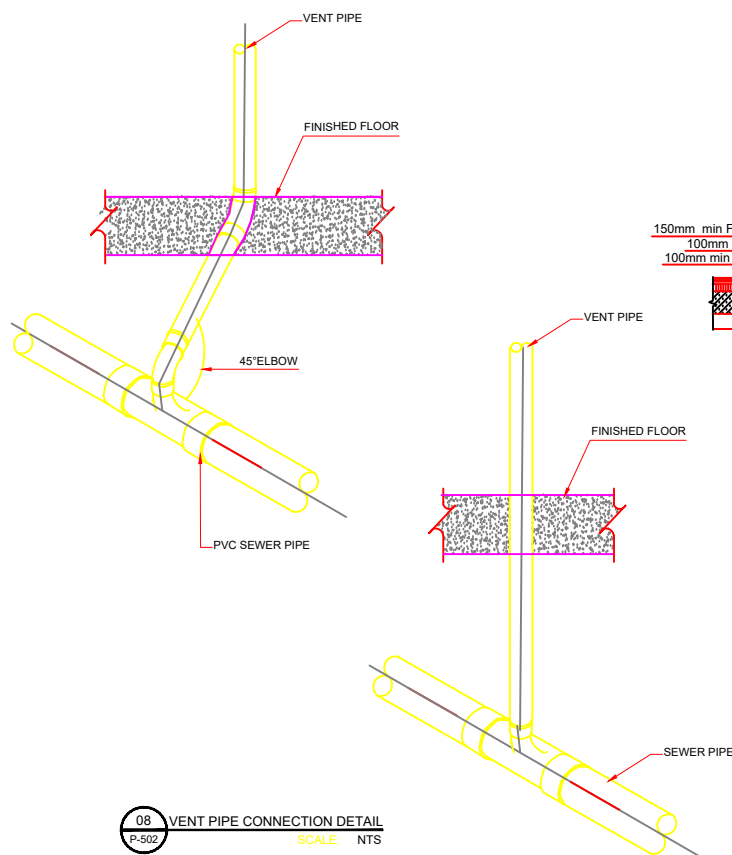
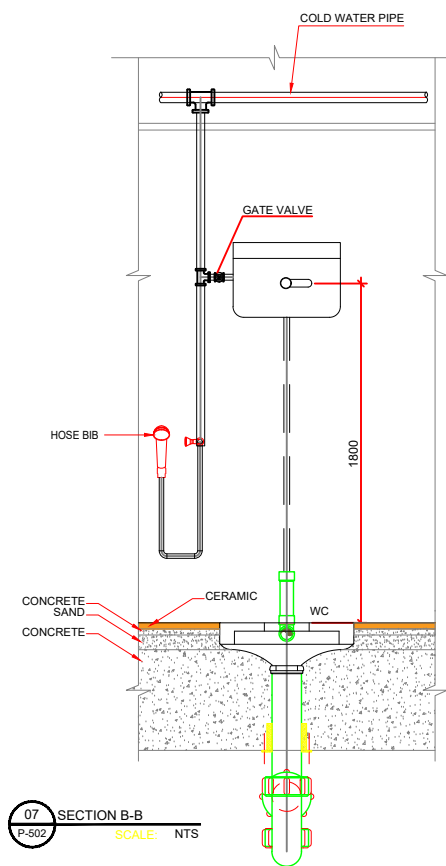
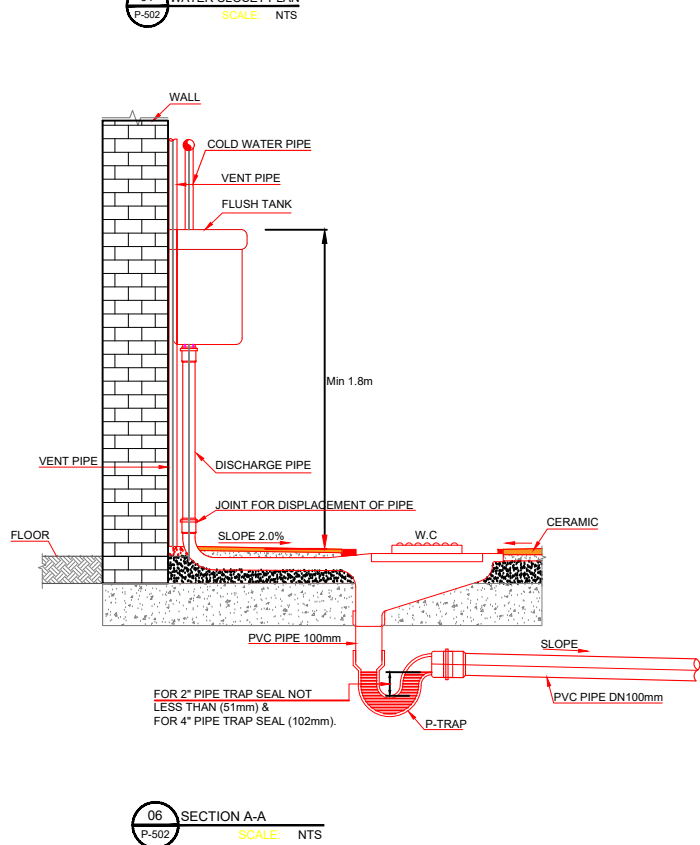
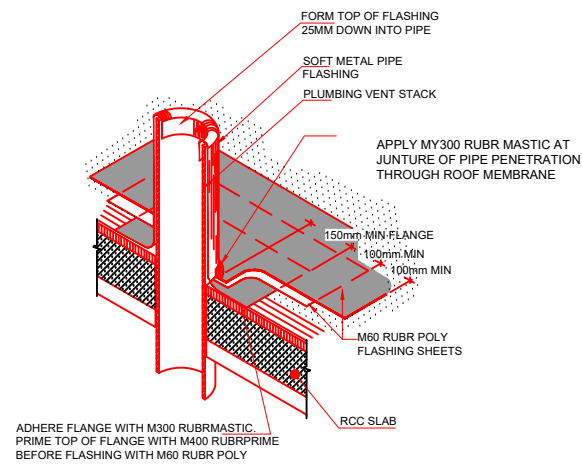
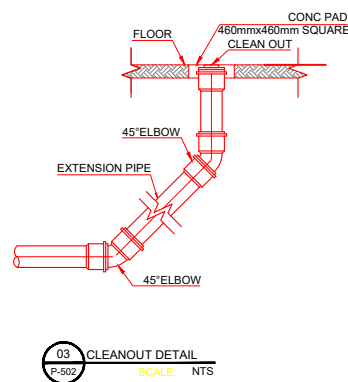
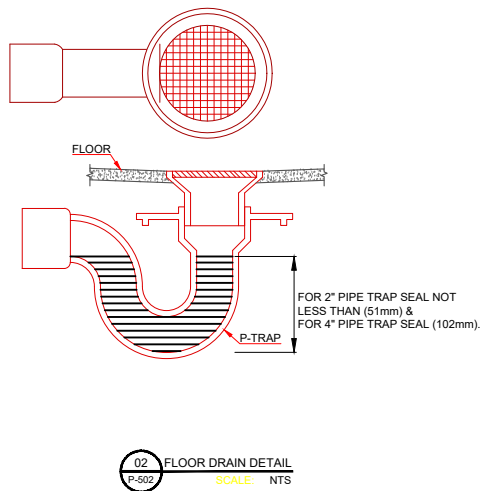
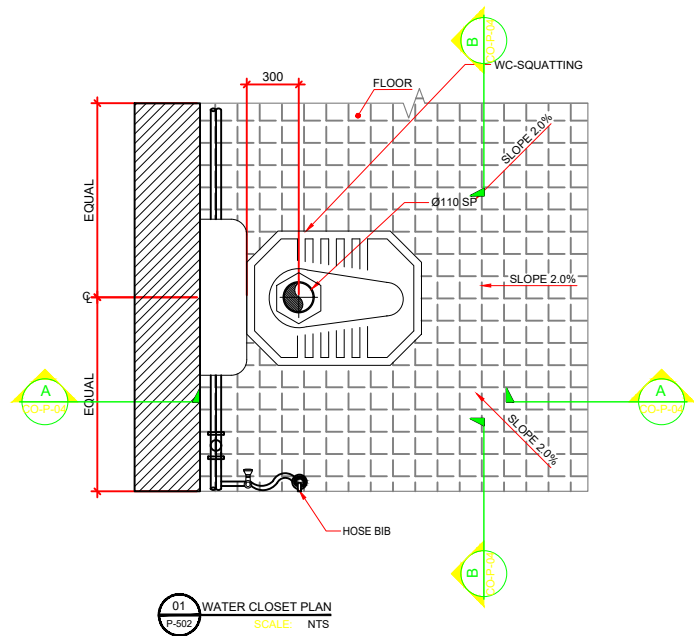
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APPROVED BY:	

FILE REF. / NAME: P-502.dwg	
SCALE: AS NOTED	ISSUE DATE: 07-May-2023

DRG TITLE:
DETAIL

DRG REF NO: P-502	REV NO: 0
SHEET 14 of 17	

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PROJECT:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:
AFGHAN FAMILY GUIDANCE ASSOCIATION
FOCAL NAME:
E-MAIL:
CELL #:



DEVELOPER:
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PHONE #:+93(0)797024024/+93(0)744862578
FAX #:



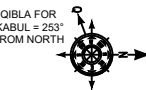
ARCHITECT:
Naeem Ahmadi
STRUCTURAL ENGINEER:
Nasratullah Nasrat
ELECTRICAL ENGINEER:
Abdul Hanan Zafarmal
PLUMBING ENGINEER:
Ghafoor Ghani
MECHANICAL ENGINEER:
Abdul Hanan Zafarmal

DRAWING ISSUE HISTORY		
REV	DESCRIPTION	DATE

PROJECT NO / KEY:

DESIGN / PROJECT STATUS:
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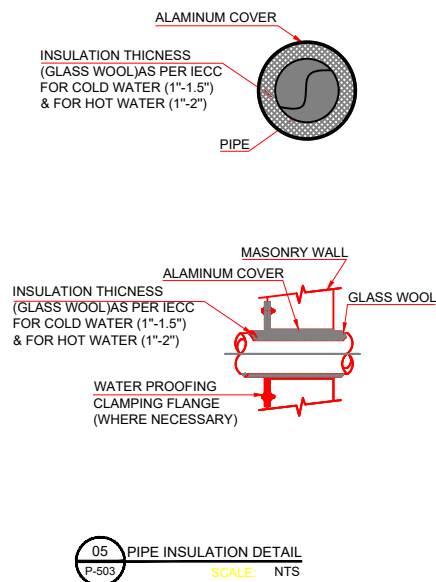
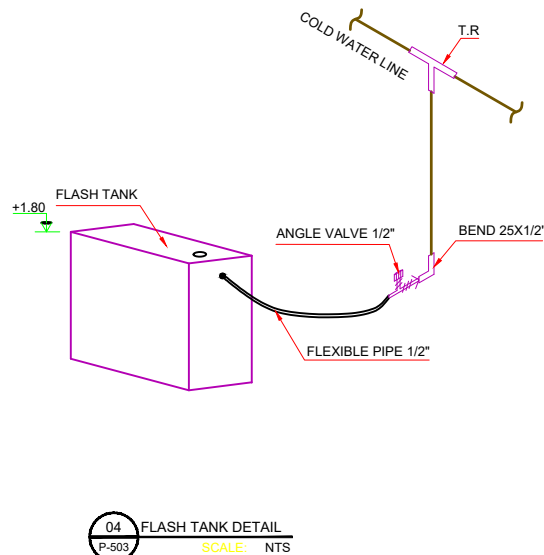
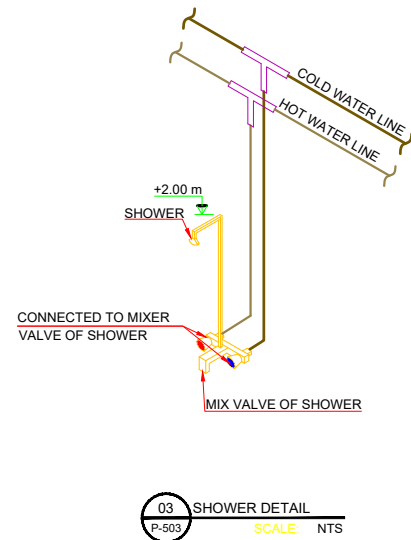
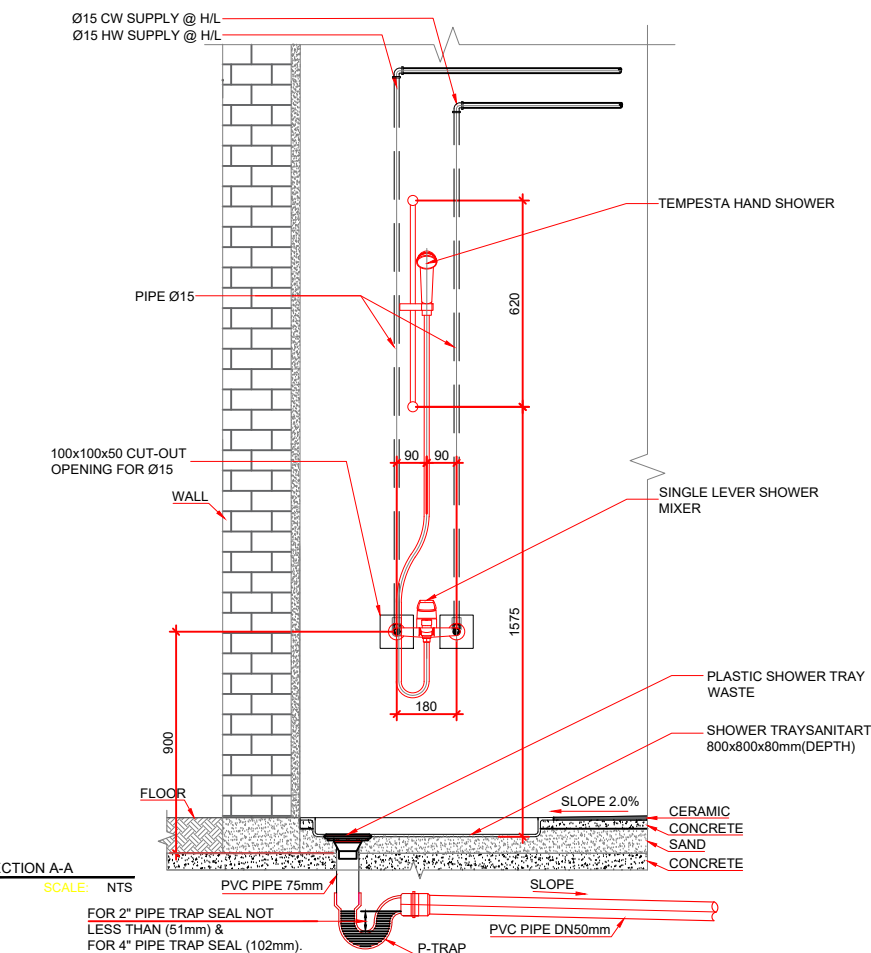
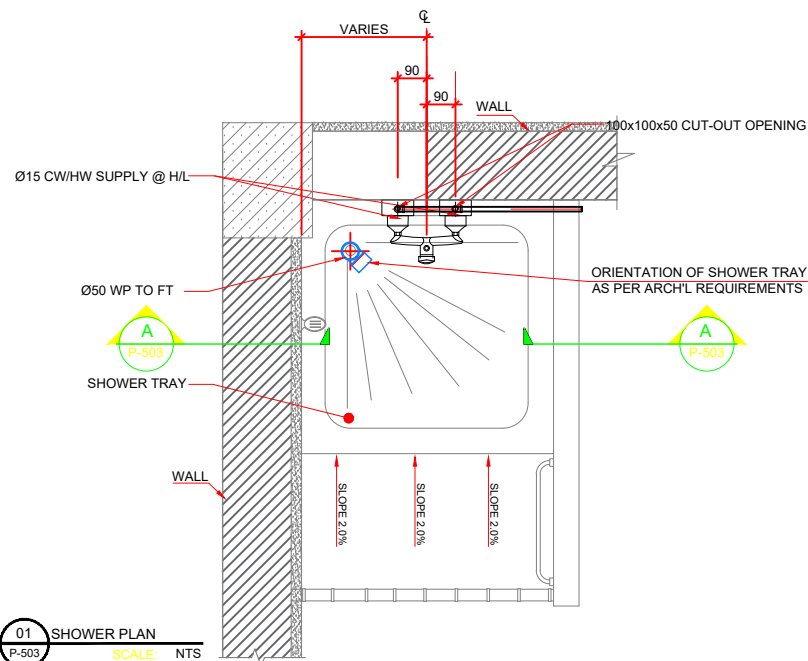


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APPROVED BY:	

FILE REF. / NAME: P-503.dwg	
SCALE: AS NOTED	ISSUE DATE: 07-May-2023

DRG TITLE:
DETAIL

DRG REF NO: P-503	REV NO: 0
SHEET 15 of 17	



PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
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OWNER:

AFGHAN FAMILY GUIDANCE ASSOCIATION
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ARCHITECT:

Naeem Ahmadi

STRUCTURAL ENGINEER:

Nasratullah Nasrat

ELECTRICAL ENGINEER:

Abdul Hanan Zafarmal

PLUMBING ENGINEER:

Ghafoor Ghani

MECHANICAL ENGINEER:

Abdul Hanan Zafarmal

DRAWING ISSUE HISTORY

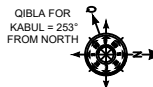
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P-504.dwg

SCALE:

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ISSUE DATE:

07-May-2023

DRG TITLE:

SECTION

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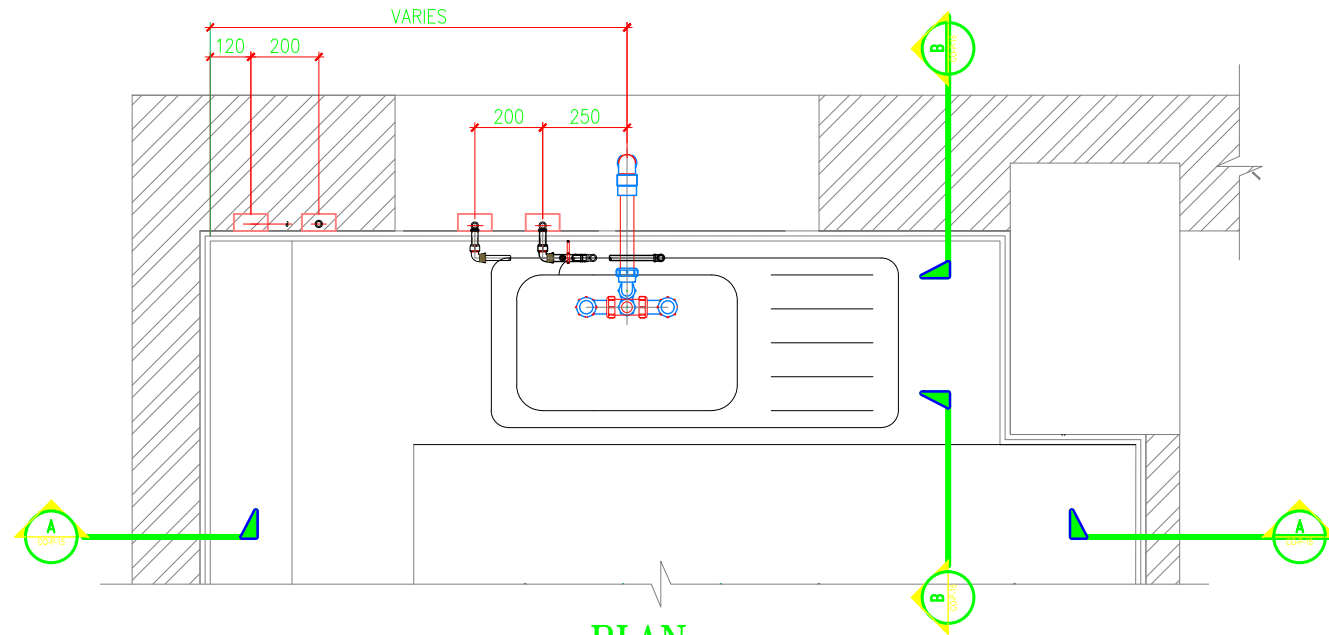
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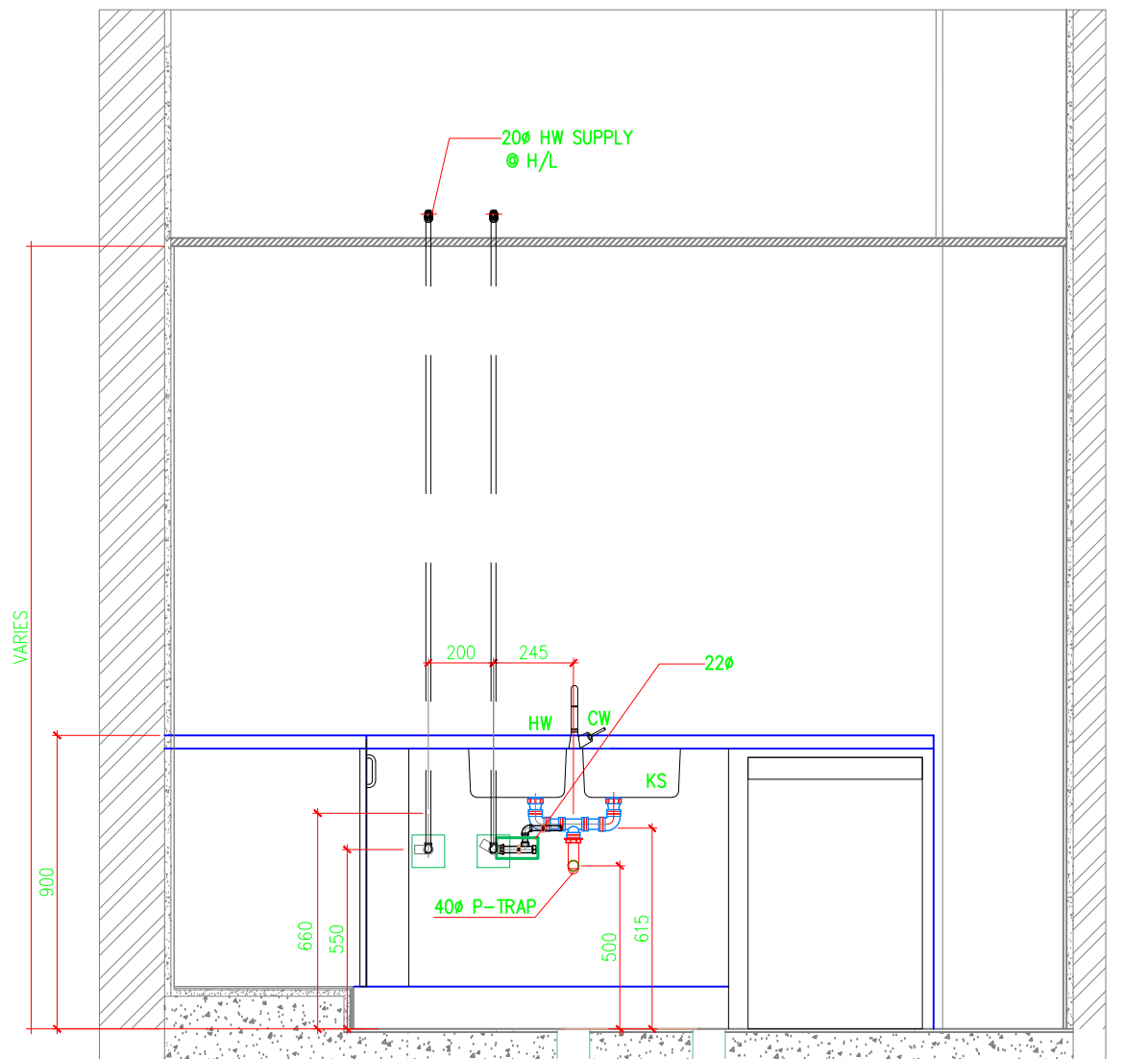
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SHEET 16 of 17

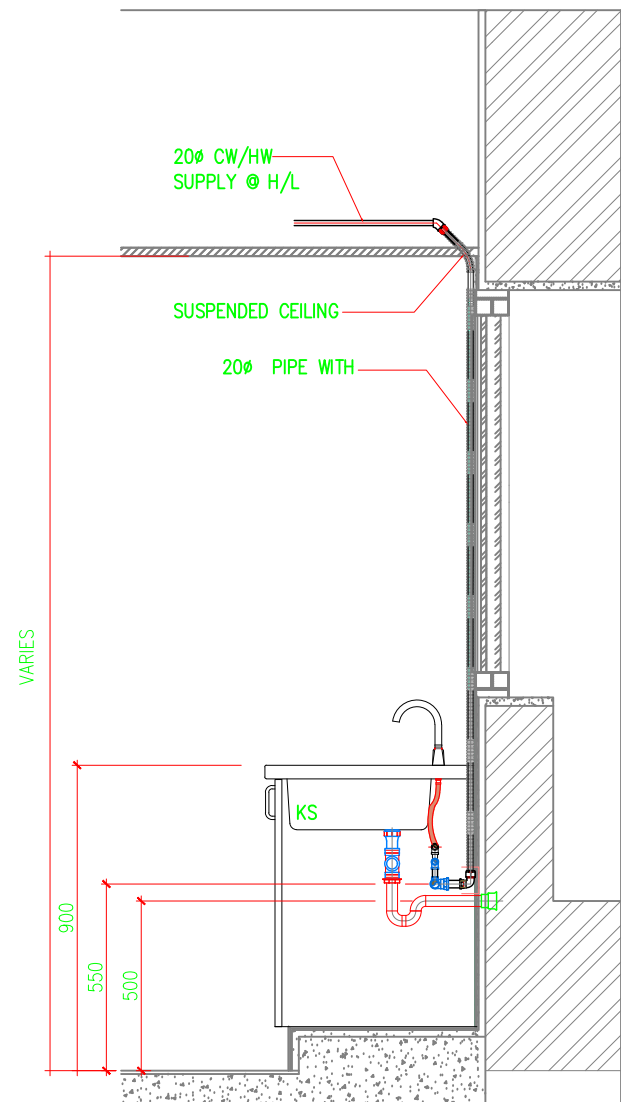
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PLAN



SECTION A-A



SECTION B-B

PROJECT:

AFGHAN FAMILY GUIDANCE ASSOCIATION
FWC & MHL PROJECT IN MALALAI NATIONAL
SPECIALIZED HOSPITAL IN
KABUL- AFGHANISTAN

OWNER:

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CELL #:



DEVELOPER:

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Abdul Hanan Zafarmal

PLUMBING ENGINEER:

Ghafoor Ghani

MECHANICAL ENGINEER:

Abdul Hanan Zafarmal

DRAWING ISSUE HISTORY

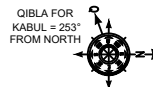
REV	DESCRIPTION	DATE

PROJECT NO / KEY:

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FILE REF. / NAME:

P-505.dwg

SCALE:

AS NOTED

ISSUE DATE:

07-May-2023

DRG TITLE:

WATER TANK

DRG REF NO:

P-505

REV NO:

0

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D

C

B

A

1

2

3

4

5

1

2

3

4

5

01 WATER TANK PLAN
P-505 REF SCALE: NTS

02 ELEVATION-A
P-505 REF SCALE: NTS

03 ELEVATION-B
P-505 REF SCALE: NTS

04 ELEVATION-C
P-505 REF SCALE: NTS

05 ELEVATION-D
P-505 REF SCALE: NTS

NOTE:

- 1- WATER TANK MATERIAL SHALL BE GALVANIZED IRON.
- 2- INSULATION SHOULD BE PROVIDED WHERE REQUIRED TO CONTROL TANK AND PIPES FROM SWEATING OR TO PROVIDE PROTECTION FROM FREEZING.
- 3- REFER SITE DRAWINGS FOR BUILDING LOCATION AND FOR EXTERNAL SEWER AND WATER NETWORKS.