

Prototype Mosque : 500 pax  
Client: Ministry of Islamic Affairs




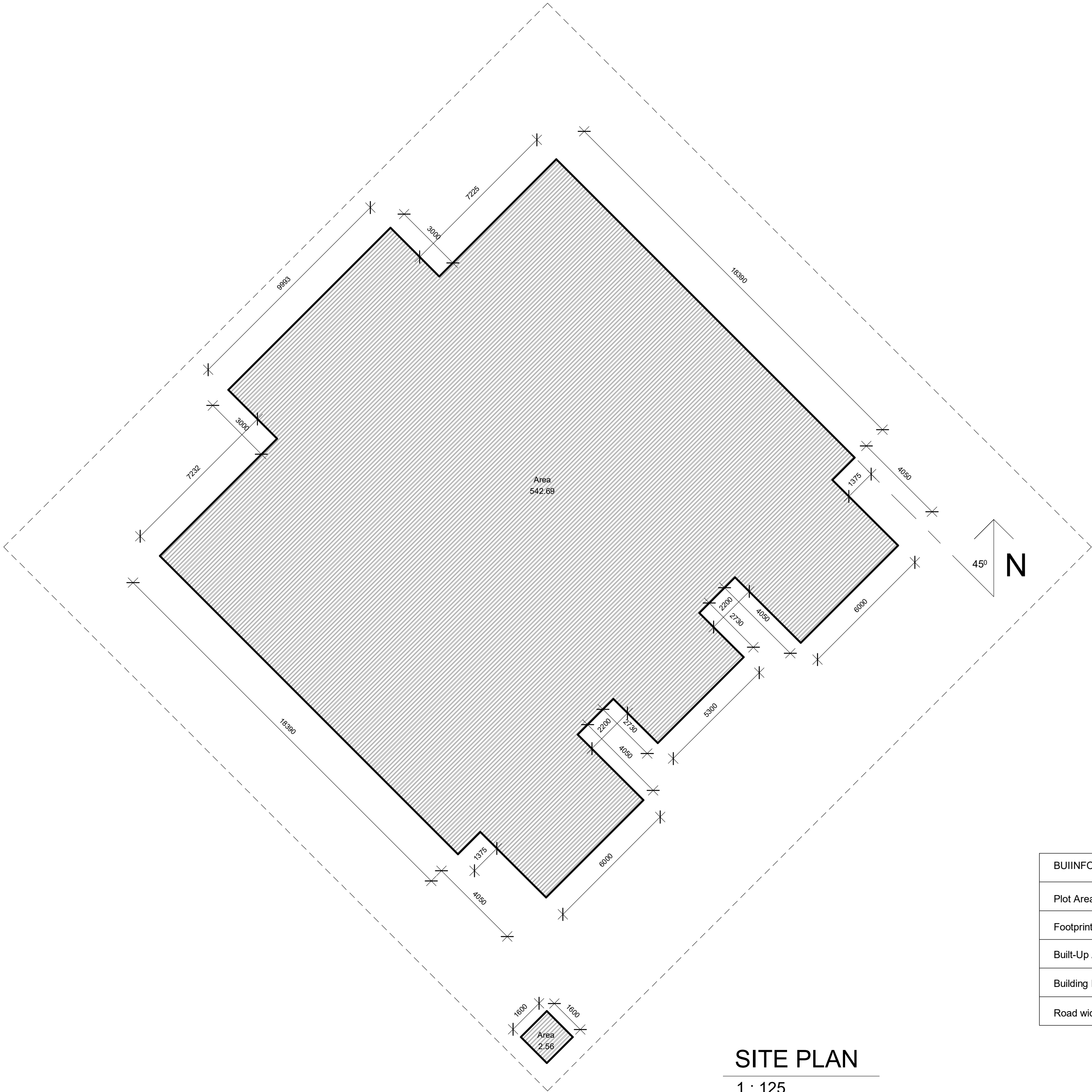
RIYAN PRIVATE LIMITED

t: +9603315040 f: +9603310776  
e: info@riyan.com.mv  
w: www.riyan.com.mv  
3rd floor, H. Azam, Amereemaga, Male'

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''	Sheet Number	Sheet Issue Date	Current Revision	Current Revision Date	Assembly: Description
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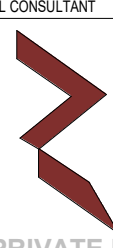
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<ul style="list-style-type: none"><li>- DO NOT SCALE FROM THIS DRAWING.</li><li>- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS</li><li>- CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.</li><li>- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.</li></ul>				
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CONSULTANT PROJECT NO. <b>R2402MIA</b>				
ARCHITECT	<b>Ismail Rasheed</b>			
CIVIL ENGINEER	<b>Mohamed Muthalib Waleed</b>			
MEP ENGINEER	<b>M.K.B, C.D.P, N.K.P, M.E.J</b>			
INT. DESIGNER	<b>-</b>			
INFRA. DESIGNER	<b>-</b>			
DRAWN BY	<b>Akila Dilshan</b>			
CHECKED BY	<b>Zunabath Abdul Majid</b>			
APPROVED BY				
PROJECT NAME				
<b>Prototype Mosque : 500 pax</b>				
CLIENT	<b>Client: Ministry of Islamic Affairs</b>			
DEVELOPER	<b>-</b>			
ATOLL	<b>_____</b>			
ISLAND	<b>_____</b>			
LAGOON (GPS COORDINATES)	<b>-</b>			
ISSUED FOR				
<b>DD_DETAIL DESIGN</b>				
BUILDING NAME				
<b>Mosque for 500 pax</b>				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			<b>21/06/2024</b>	
DRAWING TITLES				
<b>TABLE OF CONTENTS</b>				
SHEET SIZE		<b>A2</b>	SCALE	
SHEET NO.				
<b>AR-101</b>				
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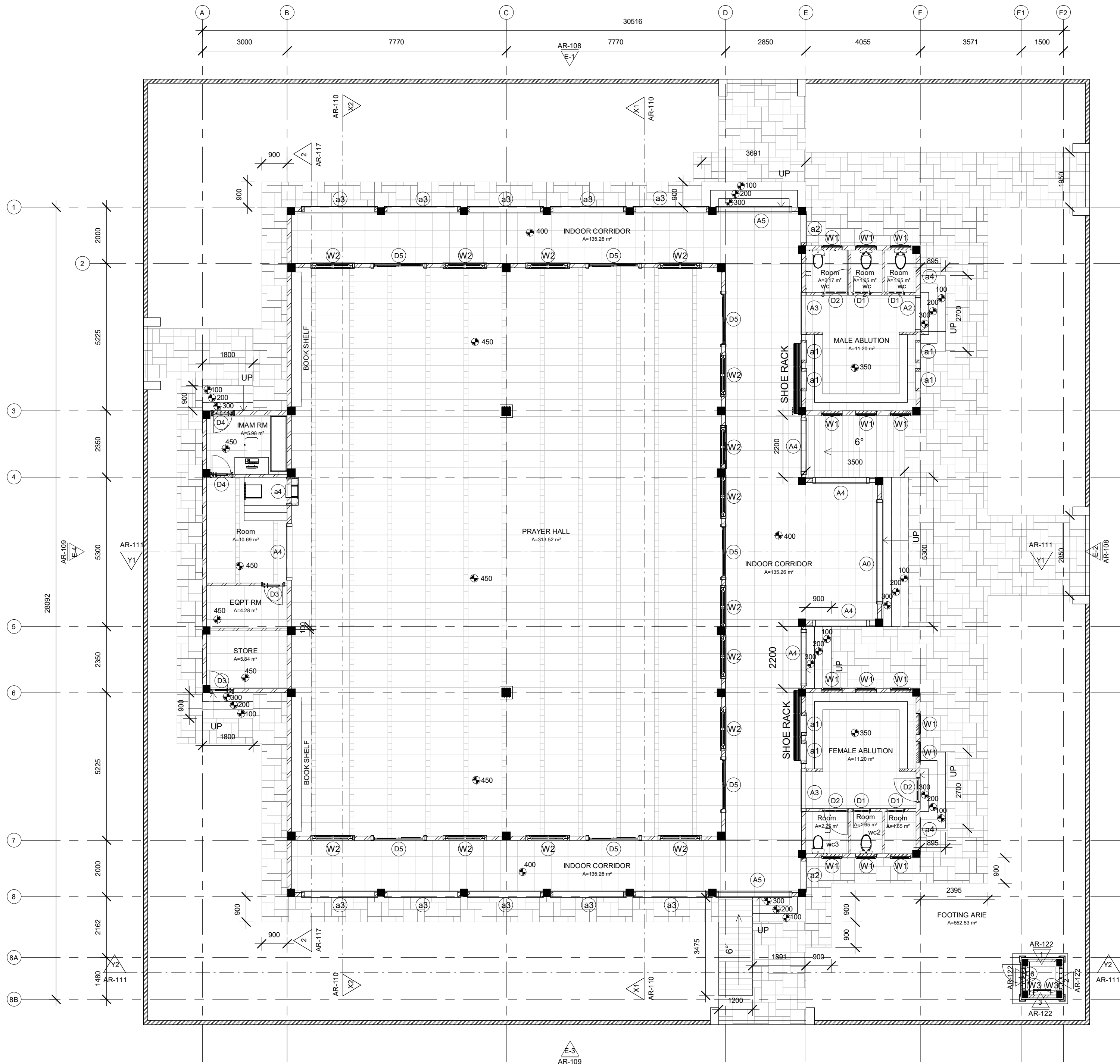
SITE PLAN

1 : 125

BUIINFORMATIONLDING	
Plot Area	1124.13m²
Footprint Area	542.25m²
Built-Up Area	542.25m²
Building Height	7.70m
Road width	varies


GENERAL NOTES				
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DEVELOPER -				
ATOLL —				
ISLAND —				
LAGOON (GPS COORDINATES) -				
ISSUED FOR				
DD_DETAIL DESIGN				
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Mosque for 500 pax				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		21/06/2024		
DRAWING TITLES				
SITE PLAN				
SHEET SIZE A2		SCALE 1 : 125		
SHEET NO.				
AR-102				
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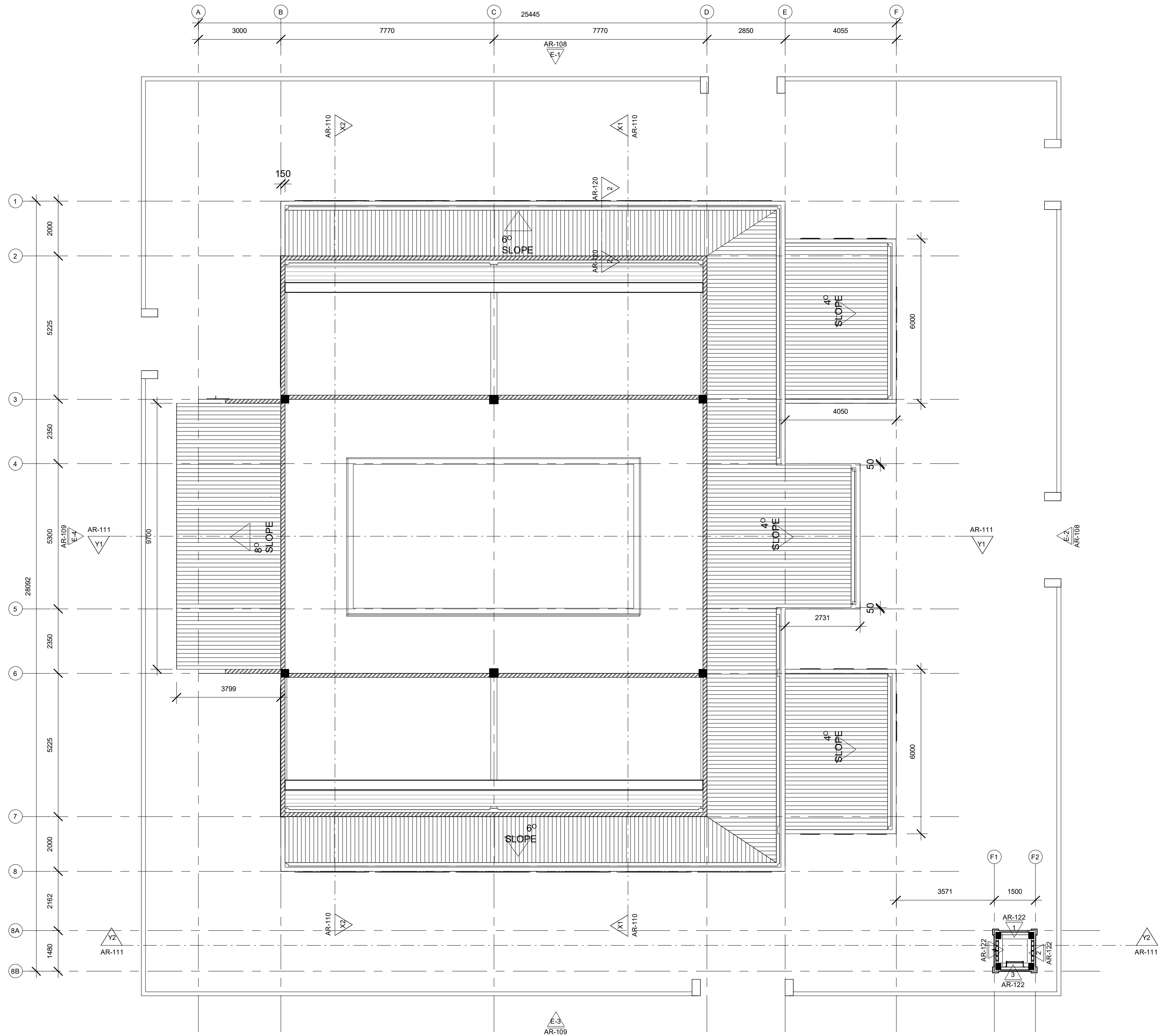


GROUND FLOOR PLAN

1 : 100

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MEP ENGINEER	<b>M.K.B, C.D.P, N.K.P, M.E.I</b>			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	<b>Akila Dilshan</b>			
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DEVELOPER		-		
ATOLL		---		
ISLAND		---		
LAGOON (GPS COORDINATES)		-		
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BUILDING NAME		<b>Mosque for 500 pax</b>		
BUILDING/STRUCTURE NO.		ISSUE DATE		
		<b>21/06/2024</b>		
DRAWING TITLES				
<b>GROUND</b>				
SHEET SIZE		A2	SCALE <b>1 : 100</b>	
<b>AR-103</b>				
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FIRST FLOOR LEVEL ROOF PLAN

1 : 100

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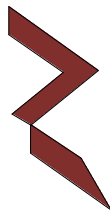
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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Ismail Rasheed

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B, C.D.P, N.K.P, M.E.I

INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY Akila Dilshan

CHECKED BY Zunabath Abdul Majid

APPROVED BY

PROJECT NAME

Prototype Mosque : 500 pax

CLIENT Client: Ministry of Islamic Affairs

DEVELOPER -

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DRAWING TITLES

FIRST FLOOR LEVEL ROOF PLAN

SHEET SIZE

A2

SCALE

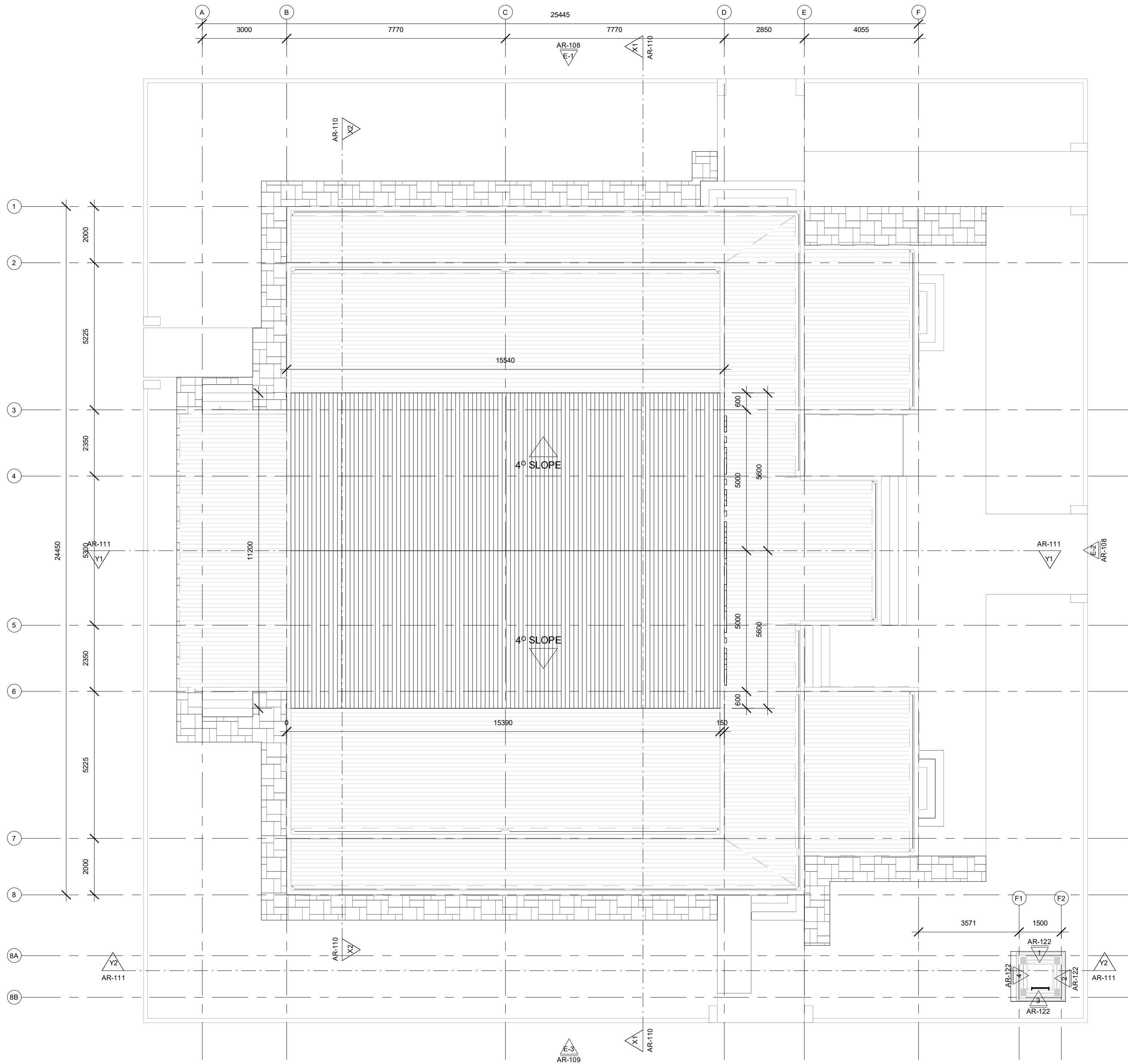
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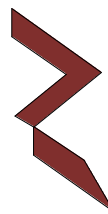
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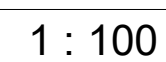
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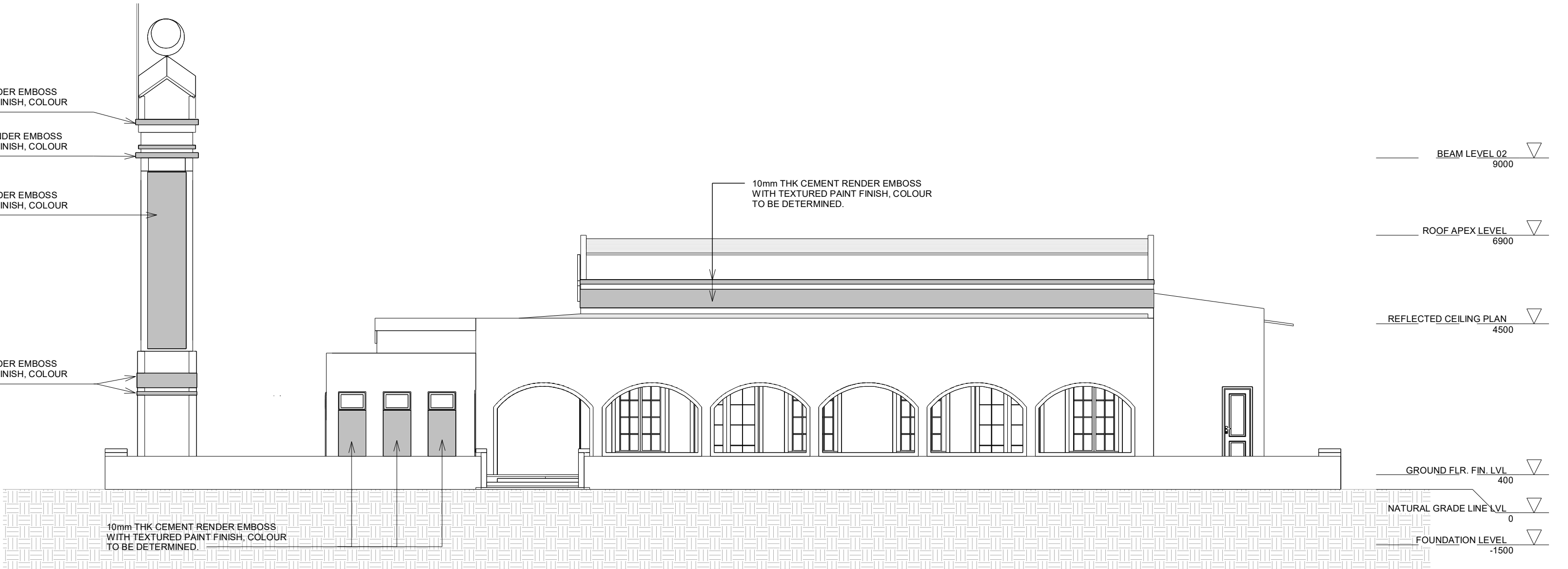
ROOF APEX LEVEL ROOF PLAN  
1 : 100

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MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
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INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
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DEVELOPER	-			
ATOLL	---			
ISLAND	---			
LAGOON (GPS COORDINATES)	-			
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BUILDING/STRUCTURE NO.		ISSUE DATE		
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DRAWING TITLES				
ROOF APEX LEVEL				
SHEET SIZE		A2	SCALE	1 : 100
SHEET NO.				
AR-106				
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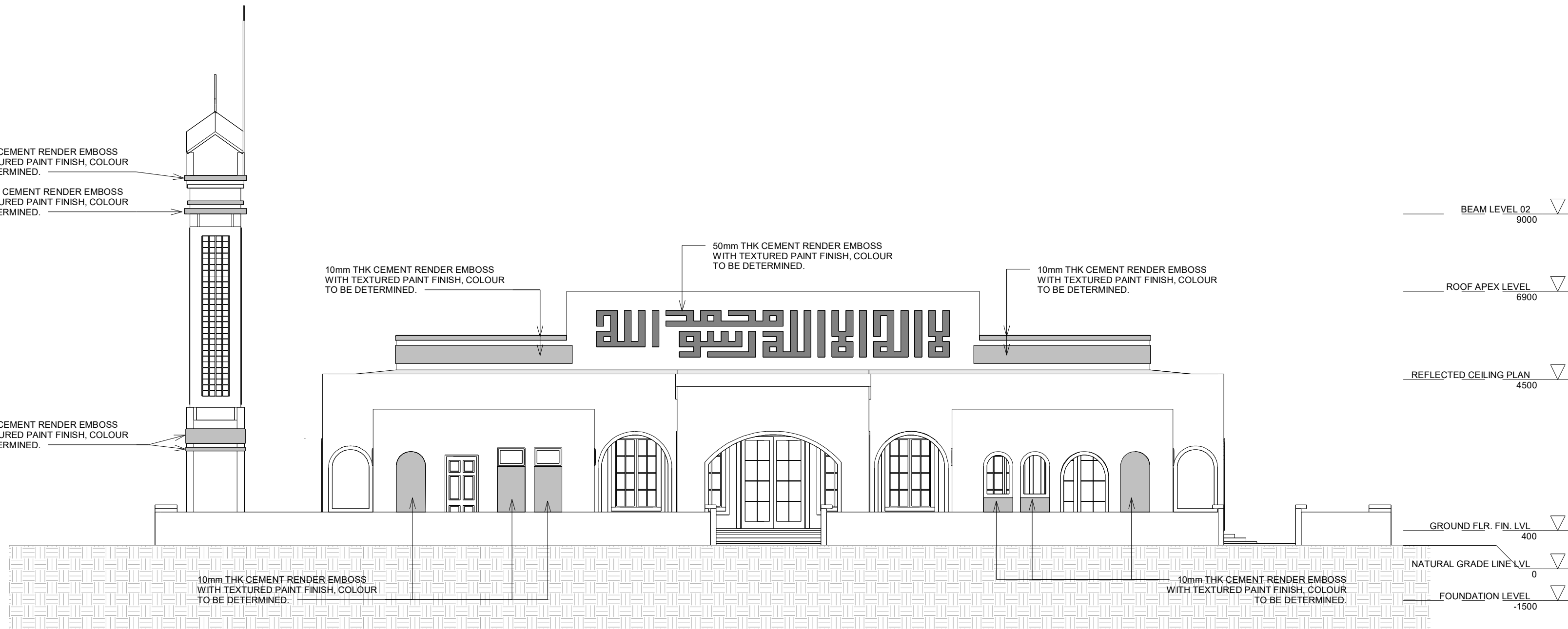


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ELEVATION - E1

1 : 100



ELEVATION - E2

1 : 100

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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	Ismail Rasheed
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Akila Dilshan
CHECKED BY	Zunabath Abdul Majid
APPROVED BY	

PROJECT NAME

Prototype Mosque : 500 pax

CLIENT Client: Ministry of Islamic Affairs

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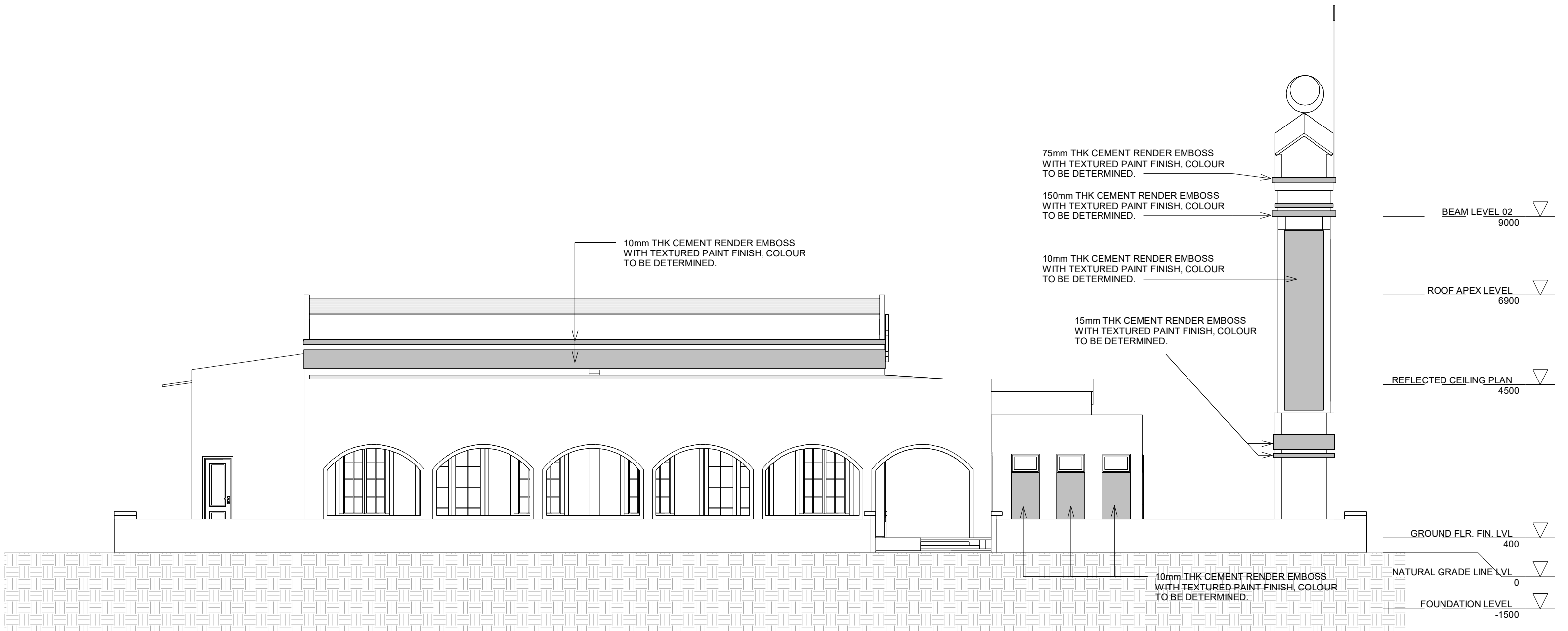
ELEVATION

SHEET SIZE A2 SCALE 1 : 100

SHEET NO.

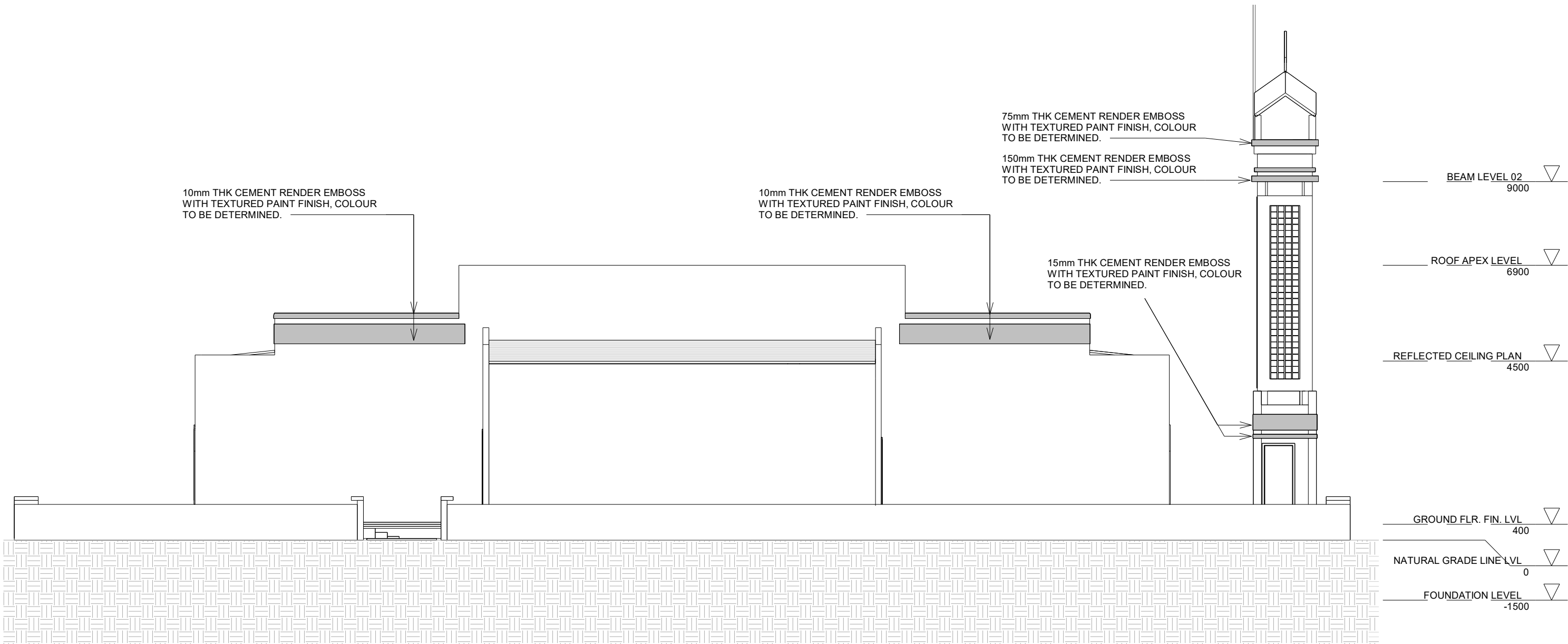
AR-108

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ELEVATION - E3

1 : 100

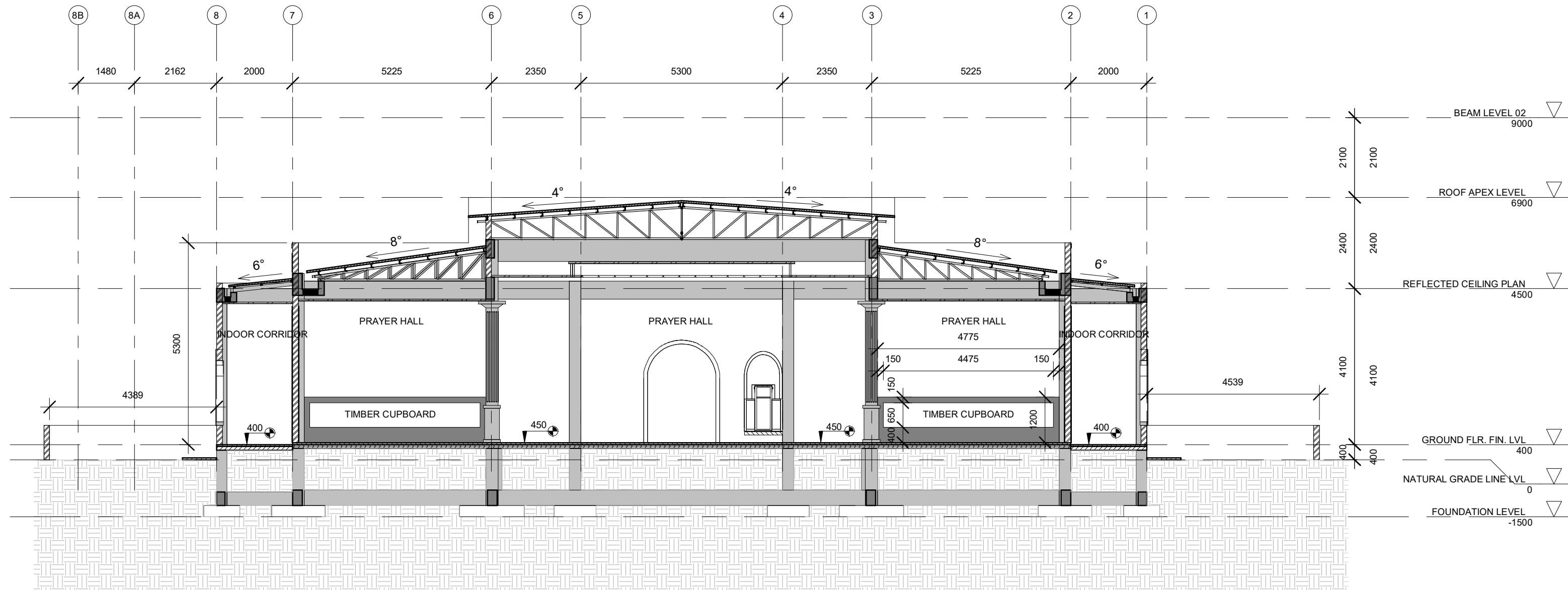


ELEVATION - E4

1 : 100

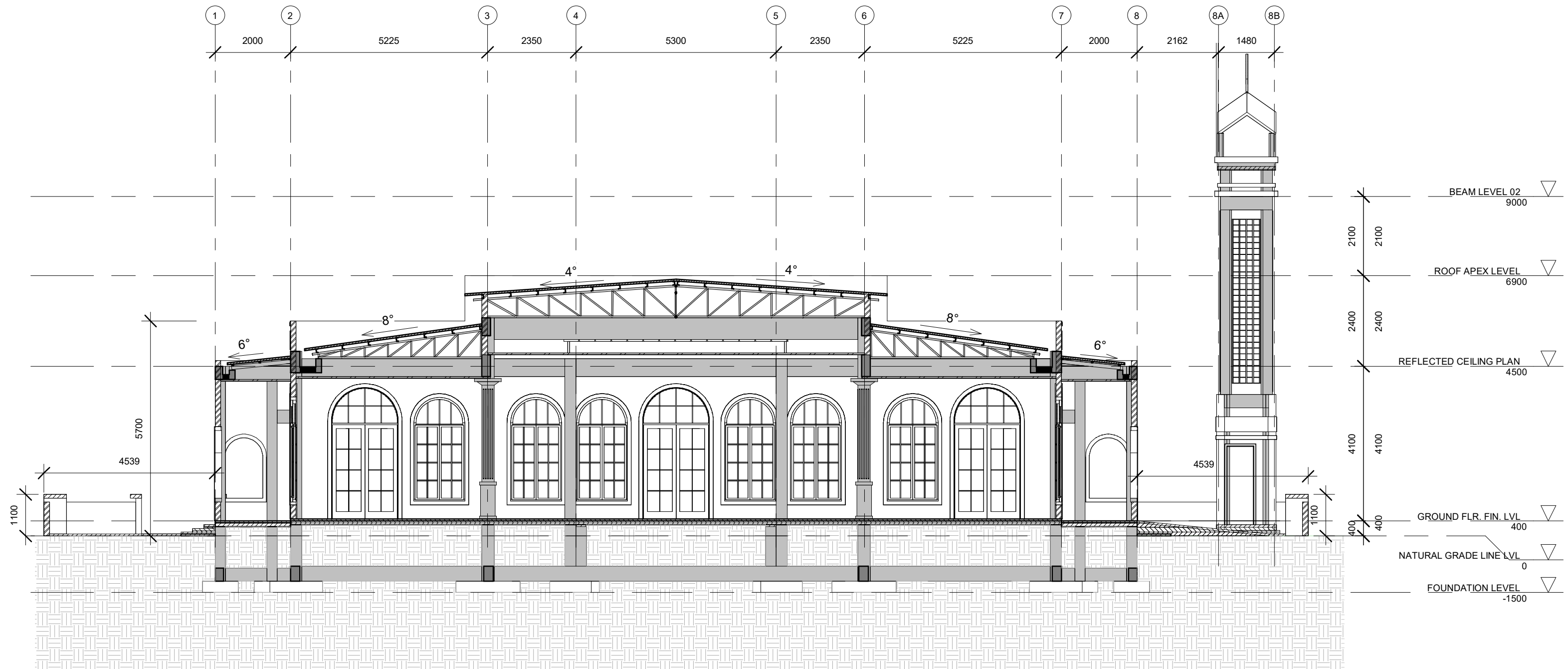
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CIVIL ENGINEER	Mohamed Muthalib Waleed			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
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Prototype Mosque : 500 pax				
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ISLAND	---			
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ELEVATION				
SHEET SIZE		A2	SCALE 1 : 100	
SHEET NO.				
AR-109				
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SECTION X1-X1

1 : 100



SECTION X2-X2

1 : 100

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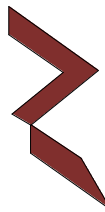
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MEP ENGINEER M.K.B, C.D.P, N.K.P, M.E.I

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DRAWING TITLES

SECTION

SHEET SIZE

A2

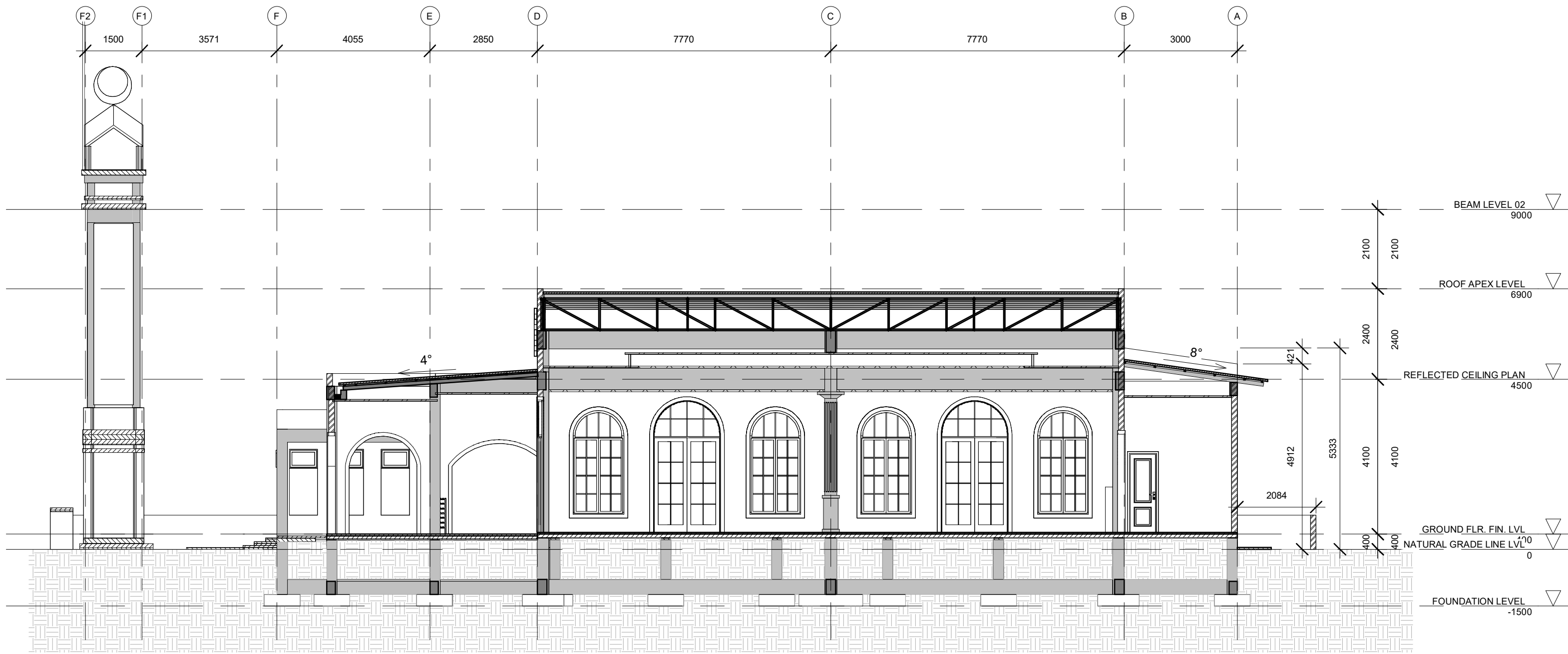
SCALE

1 : 100

SHEET NO.

AR-110

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SECTION Y1-Y1

1 : 100



SECTION Y2-Y2

1 : 100

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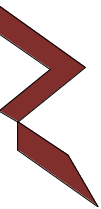
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DRAWING TITLES

SECTION 2

SHEET SIZE

A2

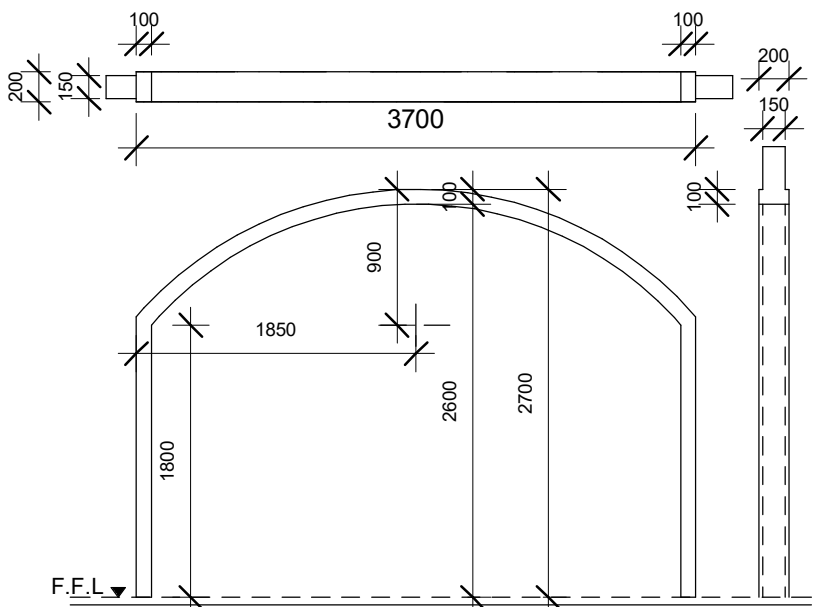
SCALE

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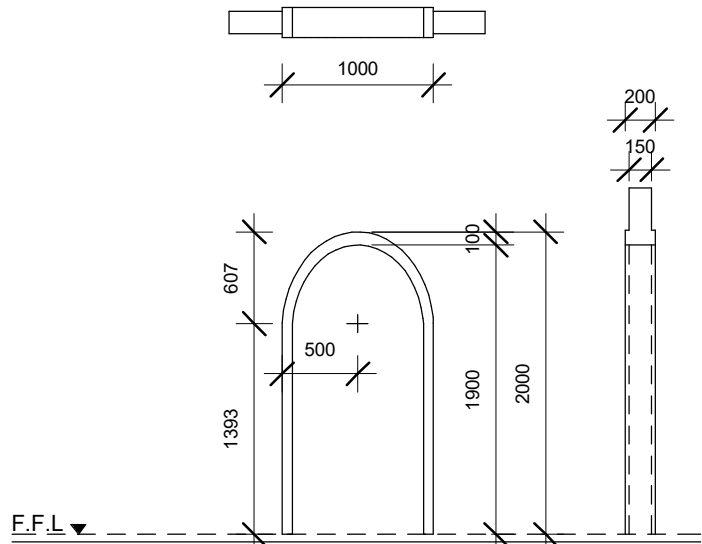
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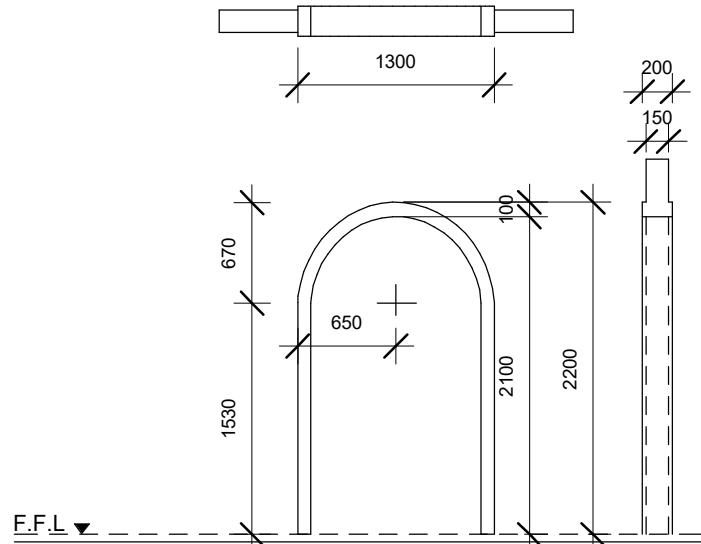
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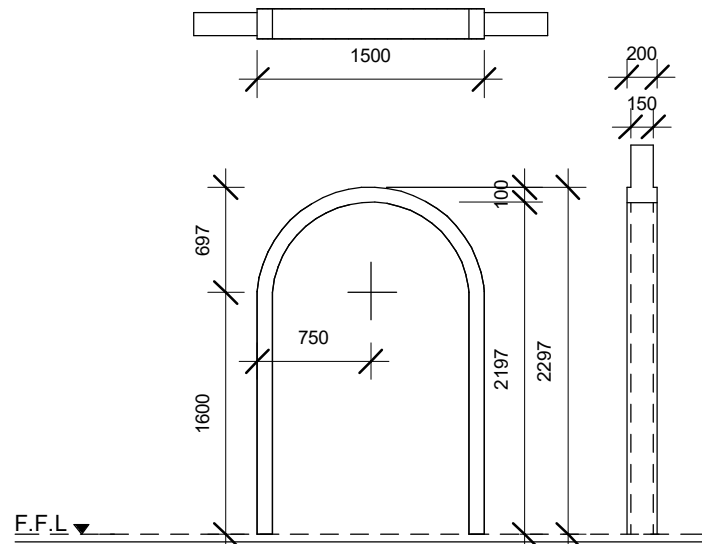
(A0)	OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	CORRIDO ( MAIN ENTRANCE)
QUANTITY	01
AREA	8.25M <sup>2</sup>



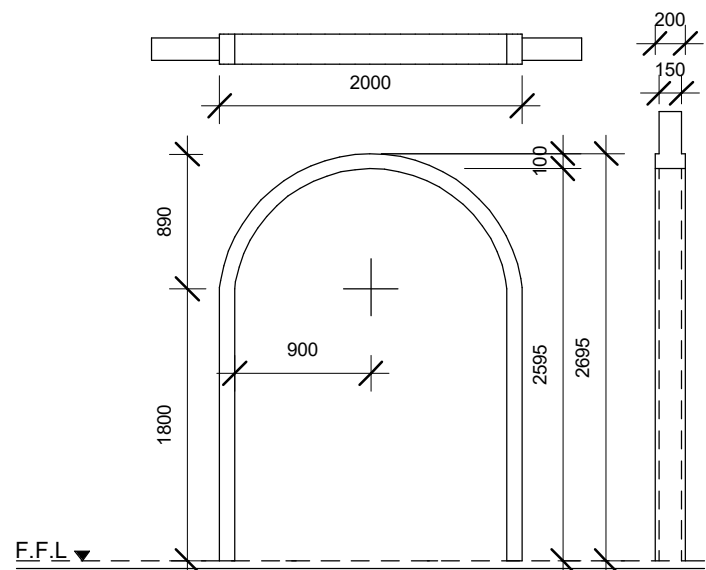
(A1)	OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	
QUANTITY	01
AREA	1.56M <sup>2</sup>



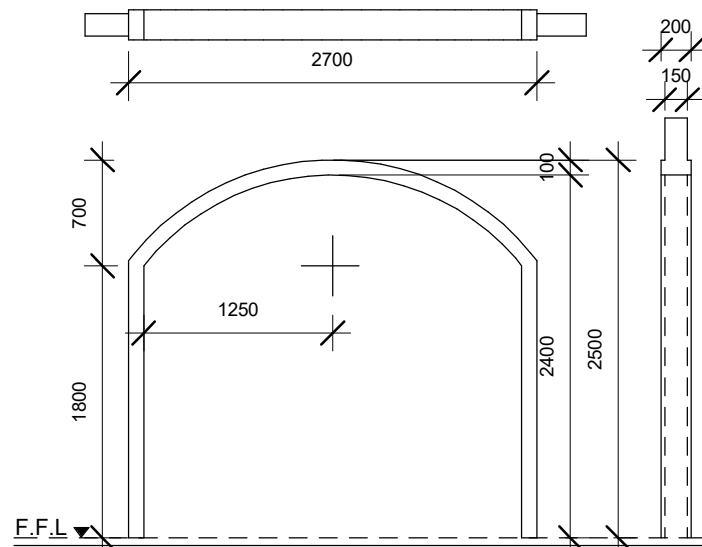
(A2)	OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	ABLUTION
QUANTITY	02
AREA	2.22M <sup>2</sup>



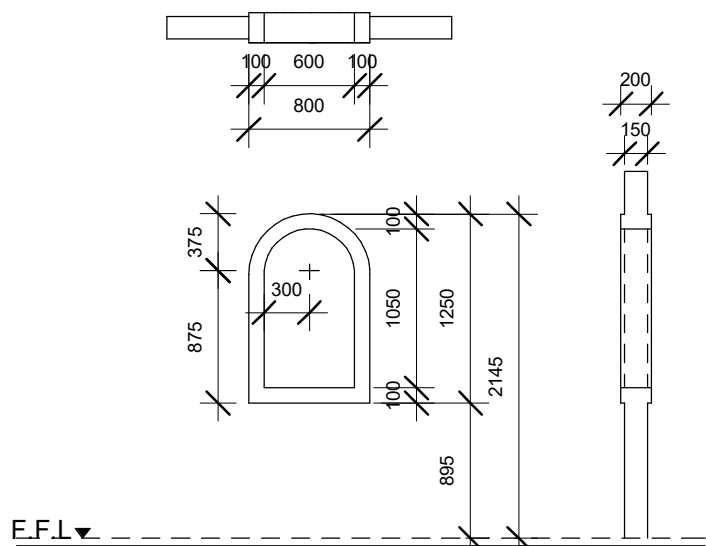
(A3)	OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	ABLUTION
QUANTITY	02
AREA	2.28M <sup>2</sup>



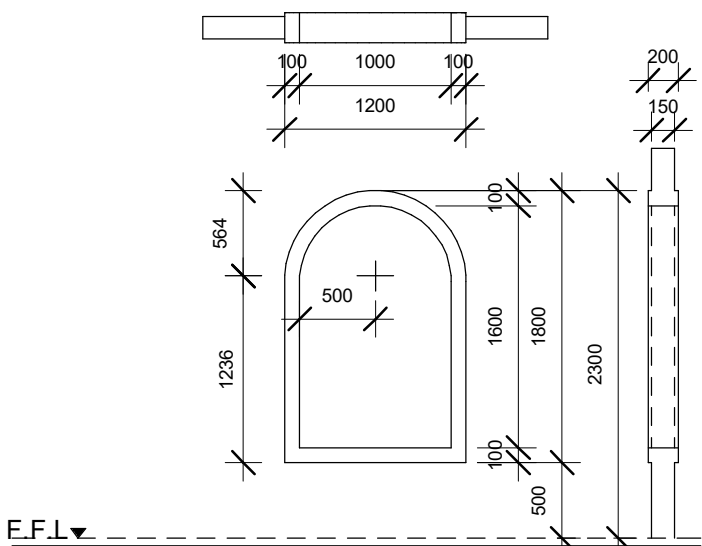
(A4)	OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	CORRIDO / PRAYER HALL
QUANTITY	05
AREA	4.33M <sup>2</sup>



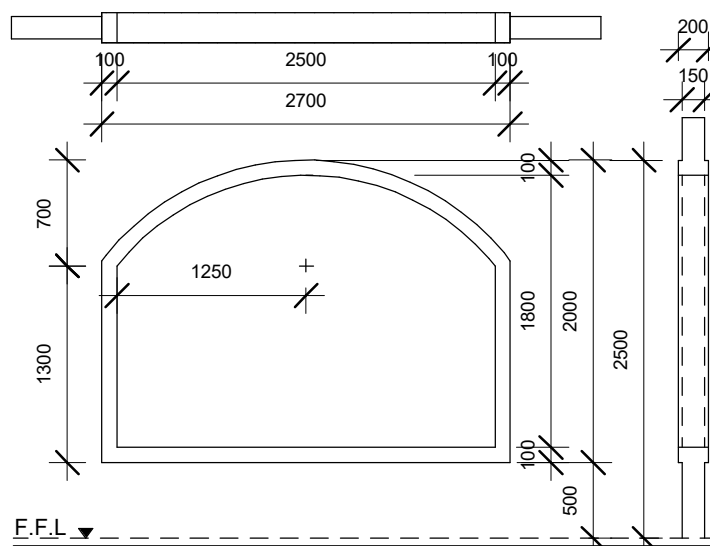
(A5)	OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	CORRIDO
QUANTITY	02
AREA	5.55M <sup>2</sup>



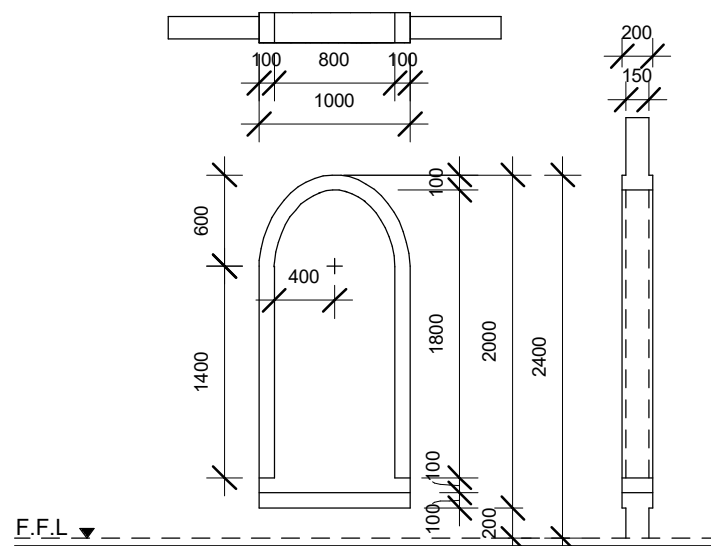
(a1)	ARCH OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	ABLUTION
QUANTITY	08
AREA	0.60M <sup>2</sup>



(a2)	ARCH OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	CORRIDO
QUANTITY	02
AREA	1.50M <sup>2</sup>



(a3)	ARCH OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	CORRIDO
QUANTITY	10
AREA	4.10M <sup>2</sup>



(a4)	ARCH OPENING
REMARKS	150mm THICK RC CONCRETE TO DESIGNED SHAPE, WITH 100mm WIDE EMBOSSED LIP TO THICKNESS OF 200mm. REINFORCEMENT: T10@150C/C BW, 2 LAYERS
LOCATION	IMAM ROOM
QUANTITY	01
AREA	1.50M <sup>2</sup>

## DOOR / WINDOW OPENING

1 : 50

### GENERAL NOTES

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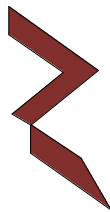
### CONSULTANT

LEAD CONSULTANT

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### DESIGN CONSULTANT

### REGISTERED LOCAL CONSULTANT



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### CONSULTANT PROJECT NO. R24002MIA

ARCHITECT **Ismail Rasheed**

CIVIL ENGINEER **Mohamed Muthalib Waleed**

MEP ENGINEER **M.K.B, C.D.P, N.K.P, M.E.J**

INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY **Akila Dilshan**

CHECKED BY **Zunabath Abdul Majid**

APPROVED BY

PROJECT NAME

**Prototype Mosque : 500 pax**

CLIENT **Client: Ministry of Islamic Affairs**

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

**DD\_DETAIL DESIGN**

BUILDING NAME

**Mosque for 500 pax**

BUILDING/STRUCTURE NO.

ISSUE DATE

**21/06/2024**

DRAWING TITLES

**DOOR / WINDOW OPENING**

SHEET SIZE

A2

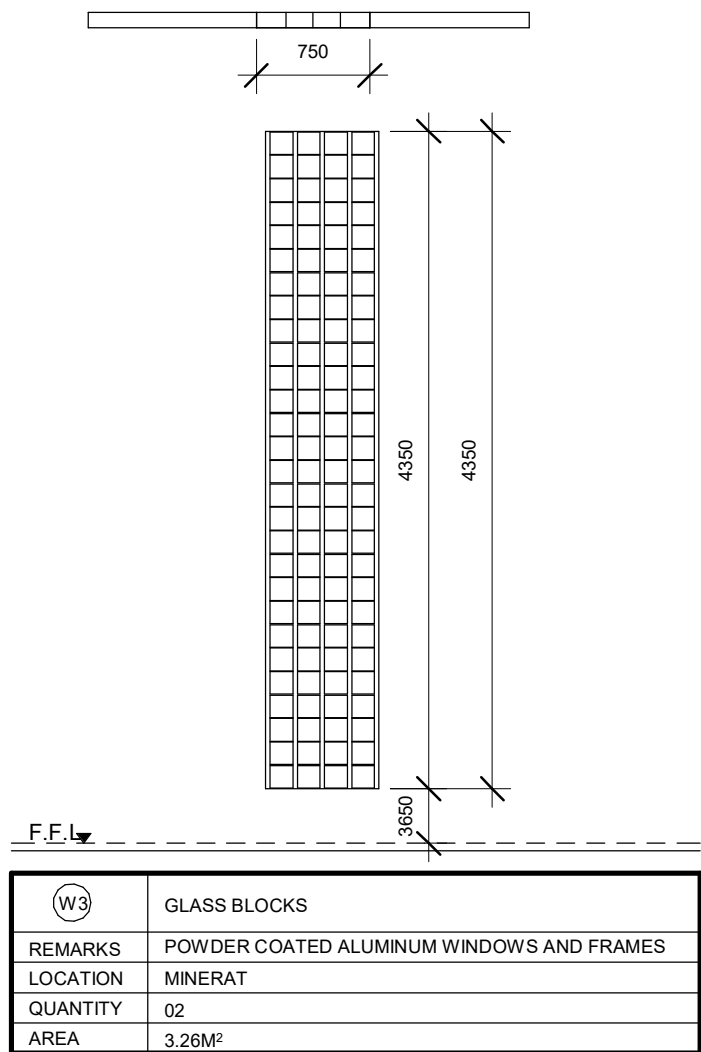
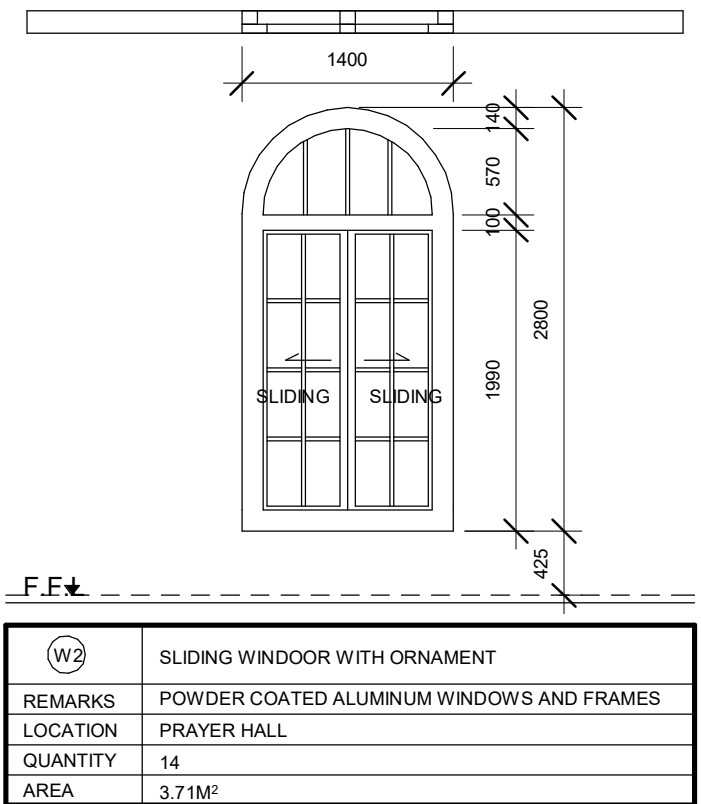
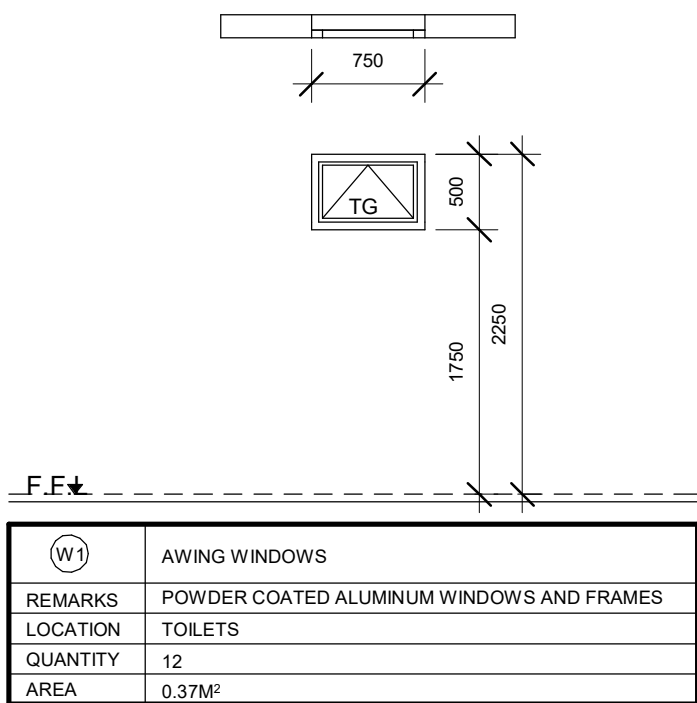
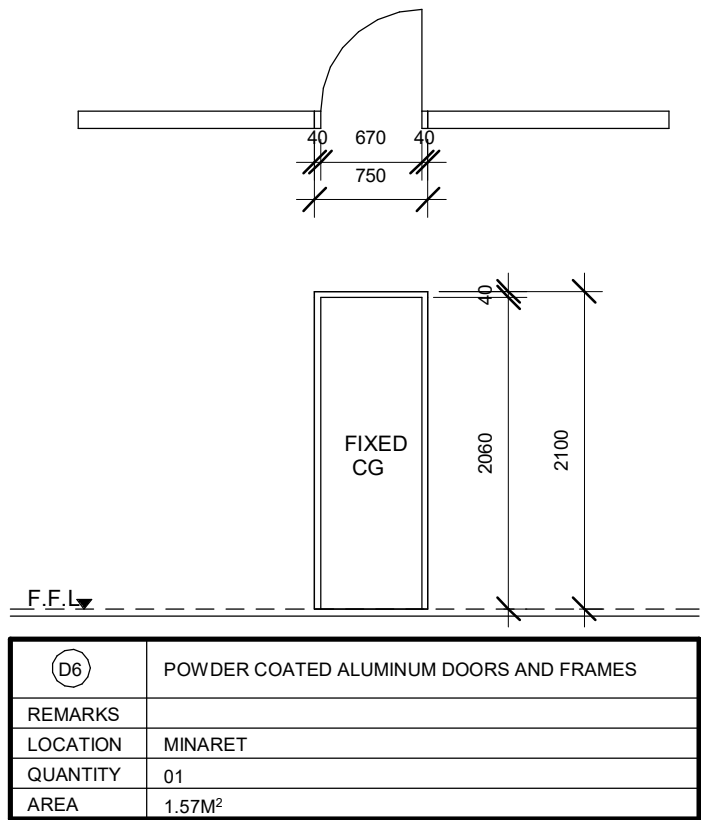
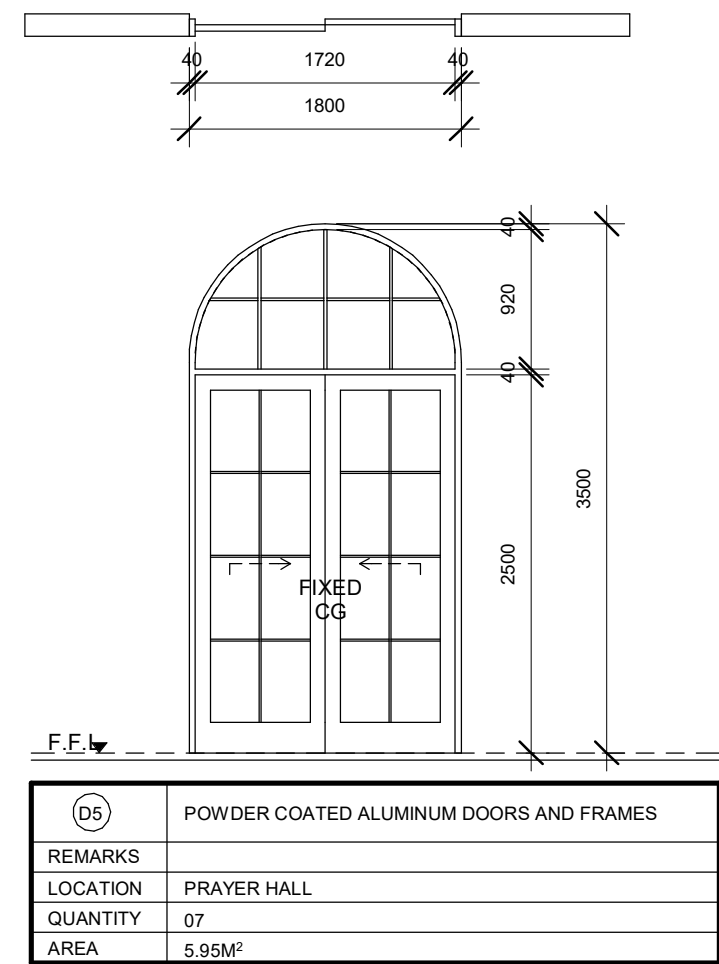
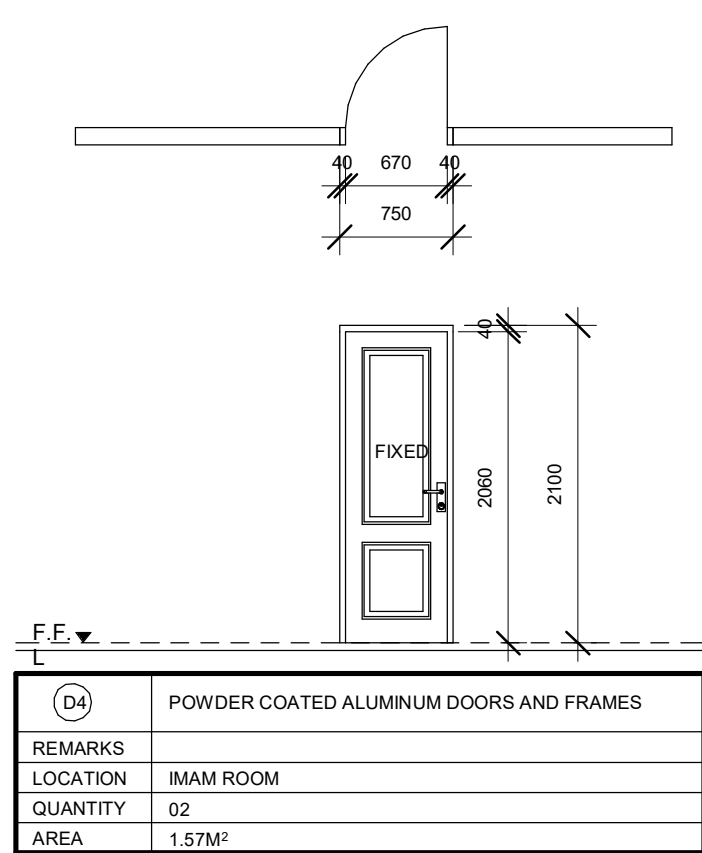
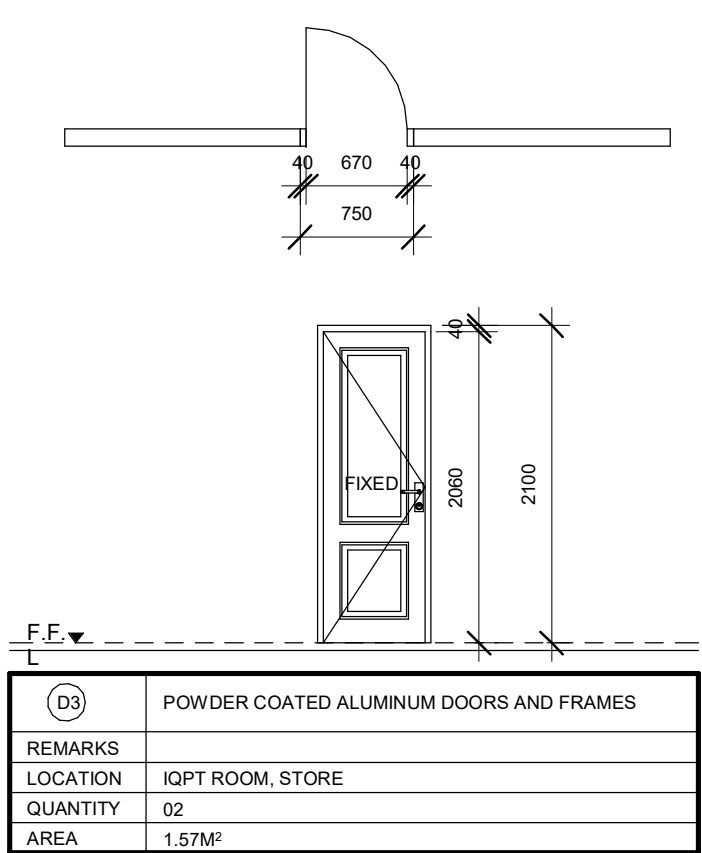
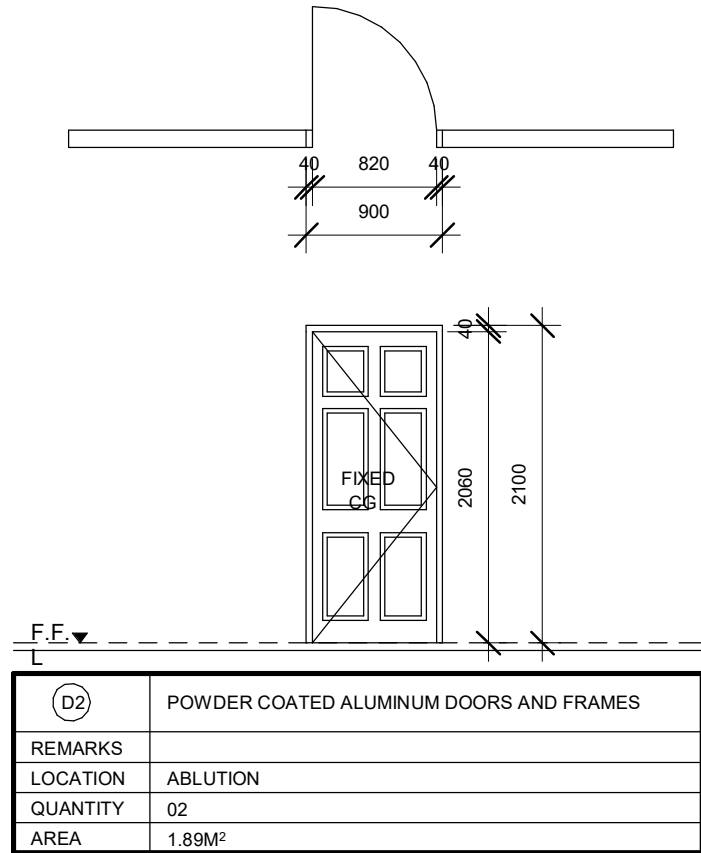
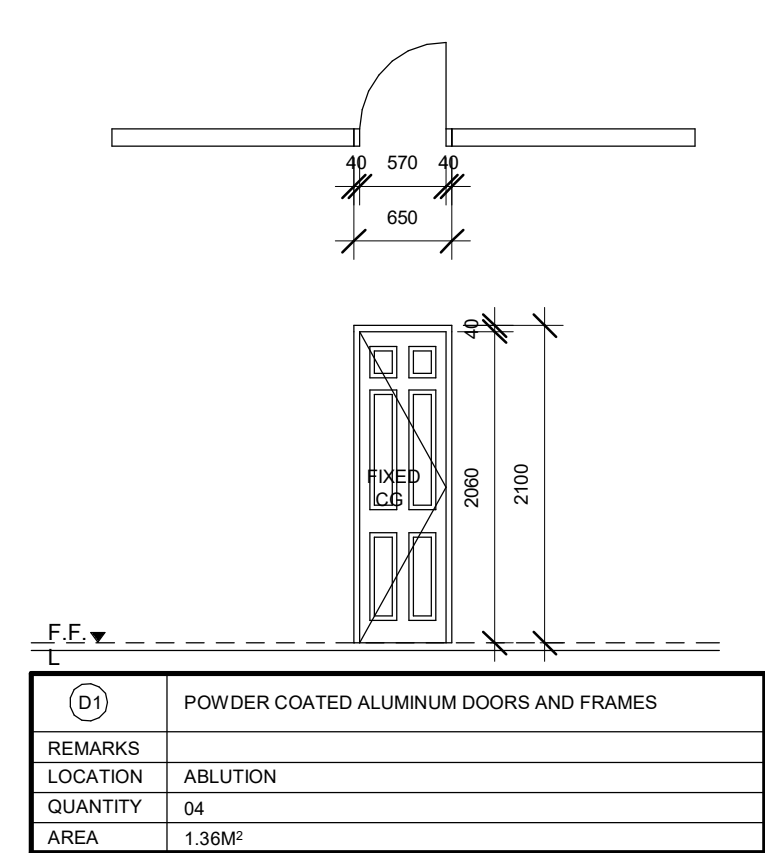
SCALE **1 : 50**

SHEET NO.

**AR-112**

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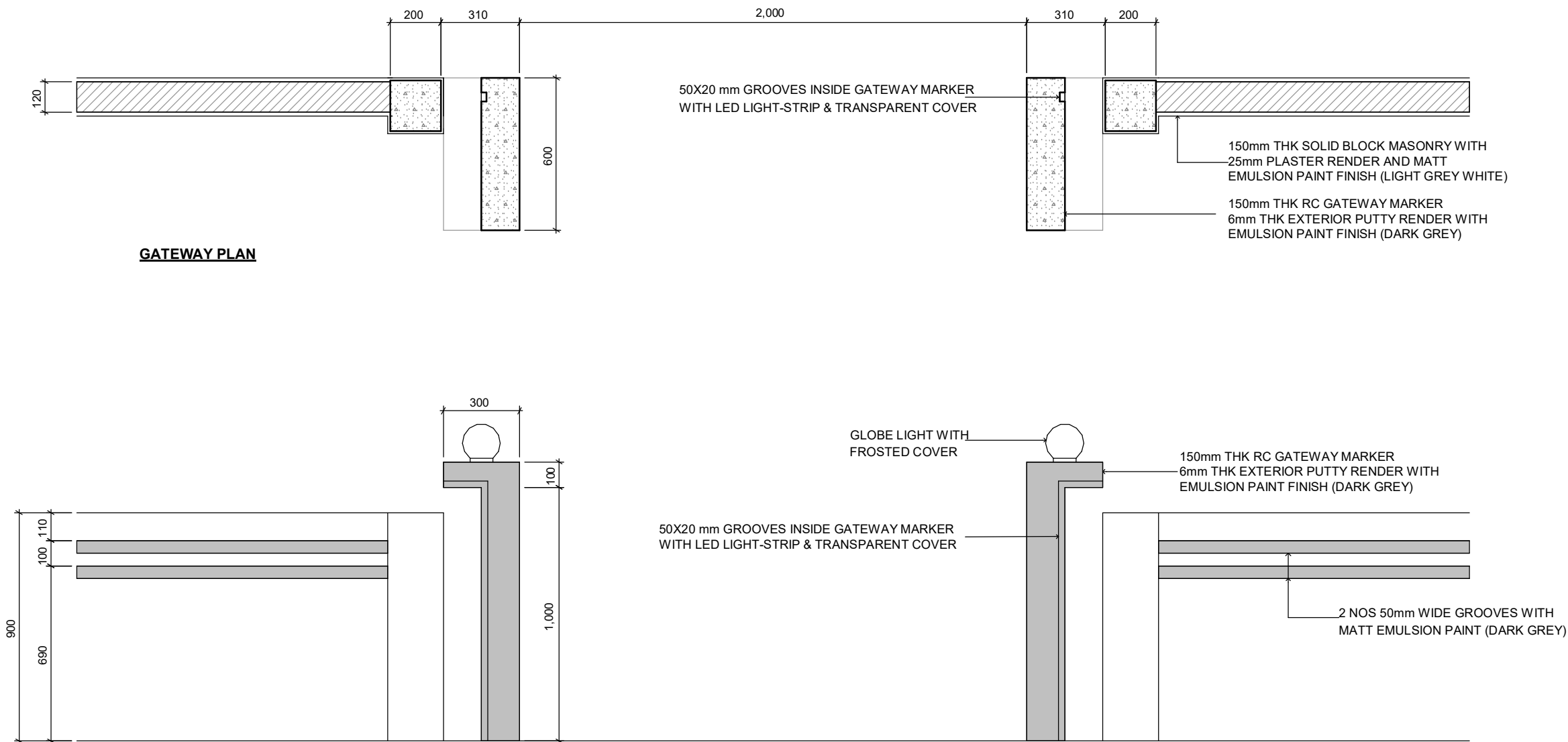
LEGEND:-  
CG - CLEAR GLASS  
FCG - FIXED CLEAR GLASS  
FG - FROSTED GLASS  
FFG - FIXED FROSTED GLASS  
RG - REFLECTED GLASS  
FRG - FIXED REFLECTED GLASS  
TG - TEMPERED CLEAR GLASS  
AL - ALUMINIUM  
ST - SOLID TIMBER  
T - TIMBER  
PVC - POLYVINYL CHLORIDE

NOTE:-  
- ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.  
- ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.  
- INTERNAL DOORS FRAME DEPTH TO BE WIDTH OF THE WALL.  
- THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.  
- FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW (SB)  
- FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

## DOOR/ WINDOW SCHEDULE

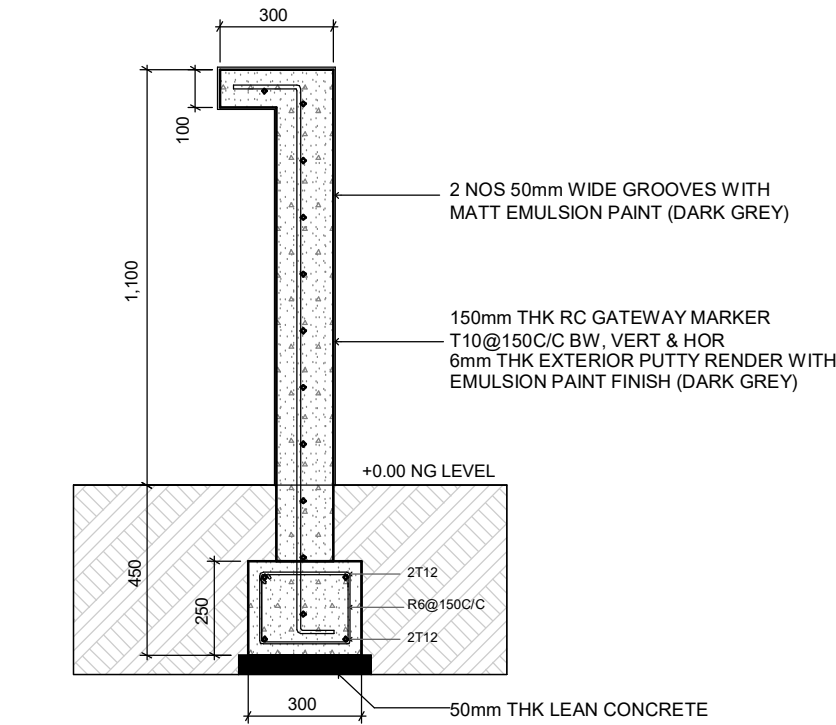
1 : 50

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LEAD CONSULTANT				
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DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
<div><div>RIYAN PRIVATE LIMITED</div><div>www.riyan.com.mv</div></div>				
CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Mohamed Muthalib Waleed			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
CHECKED BY	Zunabath Abdul Majid			
APPROVED BY				
PROJECT NAME				
Prototype Mosque : 500 pax				
CLIENT	Client: Ministry of Islamic Affairs			
DEVELOPER	-			
ATOLL	---			
ISLAND	---			
LAGOON (GPS COORDINATES)	-			
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 500 pax				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			21/06/2024	
DRAWING TITLES				
DOOR/ WINDOW SCHEDULE				
SHEET SIZE		A2	SCALE 1 : 50	
SHEET NO.				
AR-113				
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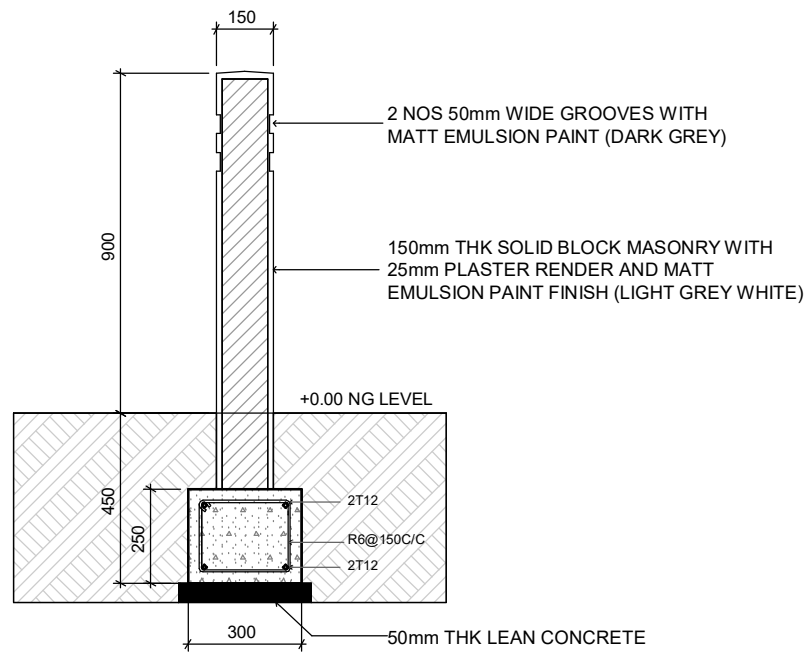


GATEWAY PLAN

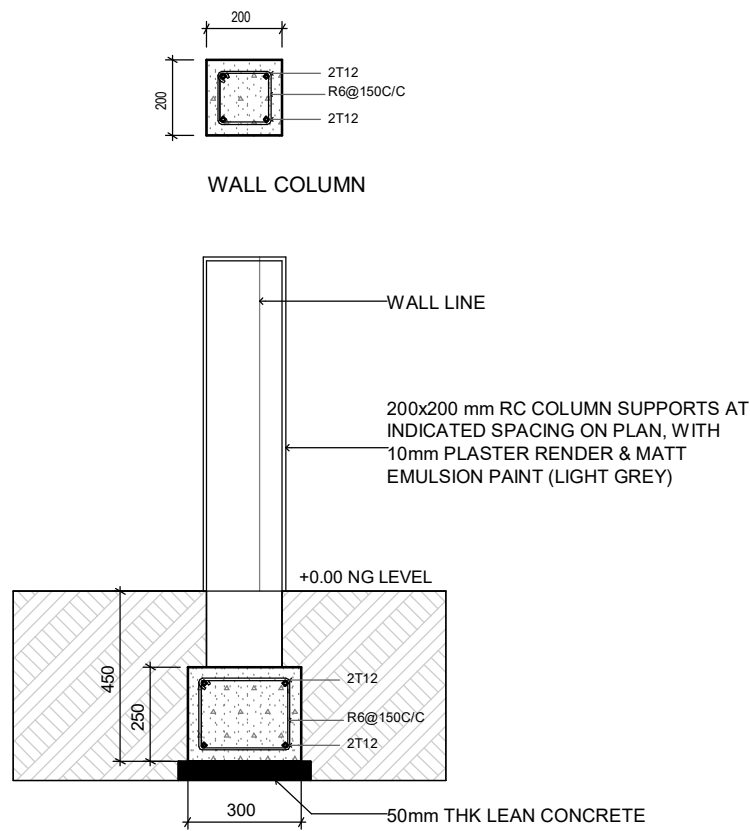
GATEWAY ELEVATION



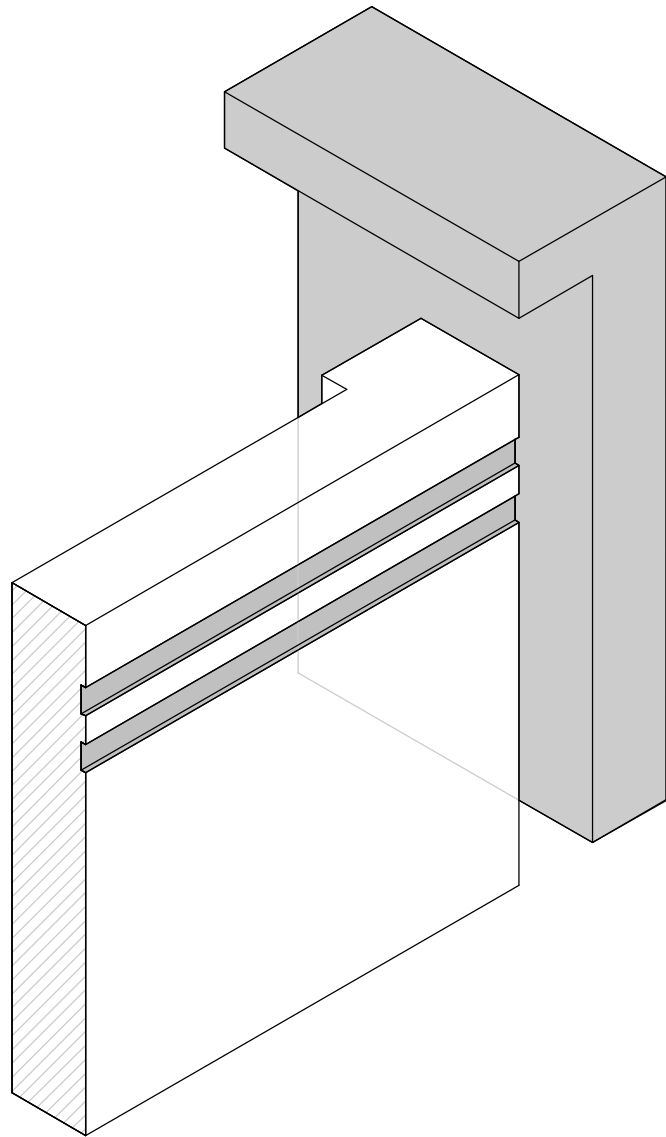
GATEWAY SECTION



WALL SECTION



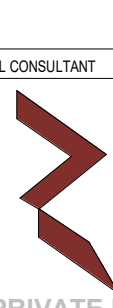
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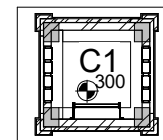


ISOMETRIC VIEW

BOUNDARY WALL DETAILS

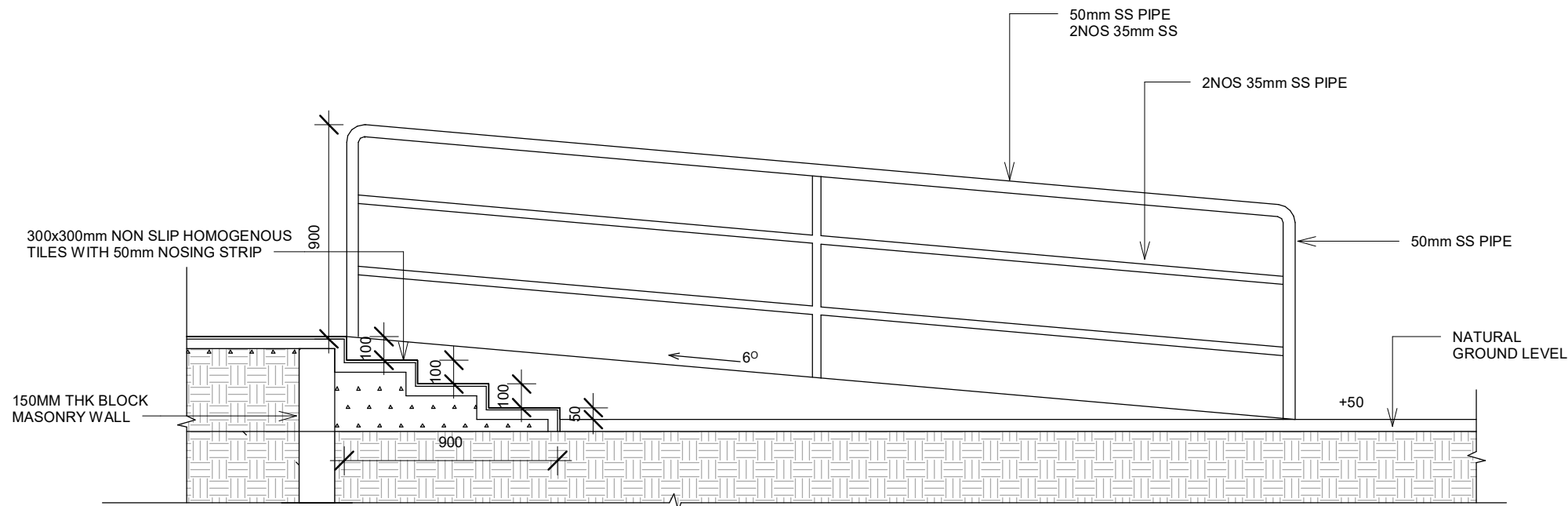
1 : 20

GENERAL NOTES				
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REVISIONS				
REV.NO	REV.DATE	REV.DESCRPTION	REV.BY	CHK.BY
CONSULTANT				
LEAD CONSULTANT				
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DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
<div><p>RIYAN PRIVATE LIMITED</p><p>www.riyan.com.mv</p></div>				
CONSULTANT PROJECT NO. <b>R24002MIA</b>				
ARCHITECT	<b>Ismail Rasheed</b>			
CIVIL ENGINEER	<b>Mohamed Muthalib Waleed</b>			
MEP ENGINEER	<b>M.K.B, C.D.P, N.K.P, M.E.J</b>			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	<b>Akila Dilshan</b>			
CHECKED BY	<b>Zunabath Abdul Majid</b>			
APPROVED BY				
PROJECT NAME				
<b>Prototype Mosque : 500 pax</b>				
CLIENT	<b>Client: Ministry of Islamic Affairs</b>			
DEVELOPER	-			
ATOLL	---			
ISLAND	---			
LAGOON (GPS COORDINATES)	-			
ISSUED FOR				
<b>DD_DETAIL DESIGN</b>				
BUILDING NAME				
<b>Mosque for 500 pax</b>				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		<b>21/06/2024</b>		
DRAWING TITLES				
<b>BOUNDARY WALL DETAILS</b>				
SHEET SIZE		A2	SCALE <b>1 : 20</b>	
SHEET NO.				
<b>AR-114</b>				
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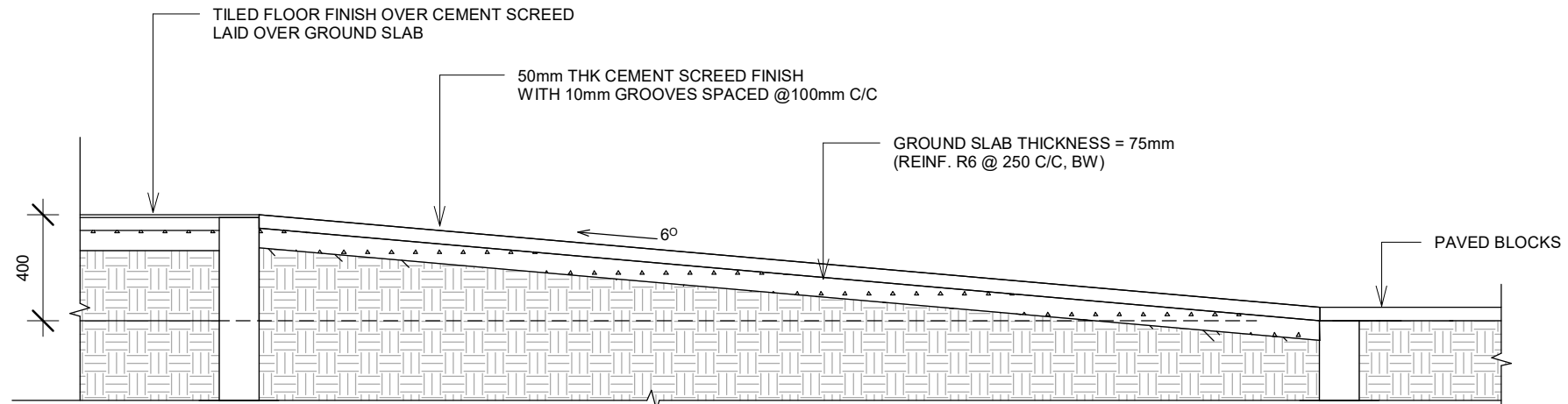


GENERAL NOTES				
<ul style="list-style-type: none"><li>- DO NOT SCALE FROM THIS DRAWING.</li><li>- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS</li><li>- CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.</li><li>- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.</li></ul>				
REVISONS				
REV.NO	REV.DATE	REV.DESCRPTION	REV.BY	CHK.BY
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LEAD CONSULTANT				
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DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
 <b>RIYAN PRIVATE LIMITED</b> <a href="http://www.riyan.com.mv">www.riyan.com.mv</a>				
CONSULTANT PROJECT NO. <b>R24002MIA</b>				
ARCHITECT		<b>Ismaail Rasheed</b>		
CIVIL ENGINEER		<b>Mohamed Muthalib Waleed</b>		
MEP ENGINEER		<b>M.K.B, C.D.P, N.K.P, M.E.I</b>		
INT. DESIGNER		-		
INFRA. DESIGNER		-		
DRAWIN BY		<b>Akila Dilshan</b>		
CHECKED BY		<b>Zunabath Abdul Majid</b>		
APPROVED BY				
PROJECT NAME				
<b>Prototype Mosque : 500 pax</b>				
CLIENT		<b>Client: Ministry of Islamic Affairs</b>		
DEVELOPER		-		
ATOLL		---		
ISLAND		---		
LAGOON (GPS COORDINATES)		-		
ISSUED FOR				
<b>DD_DETAIL DESIGN</b>				
BUILDING NAME				
<b>Mosque for 500 pax</b>				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			<b>21/06/2024</b>	
DRAWING TITLES				
<b>MATERIAL FINISHES</b>				
SHEET SIZE		A2		
SCALE		<b>1 : 100</b>		
SHEET NO.				
<b>AR-115</b>				
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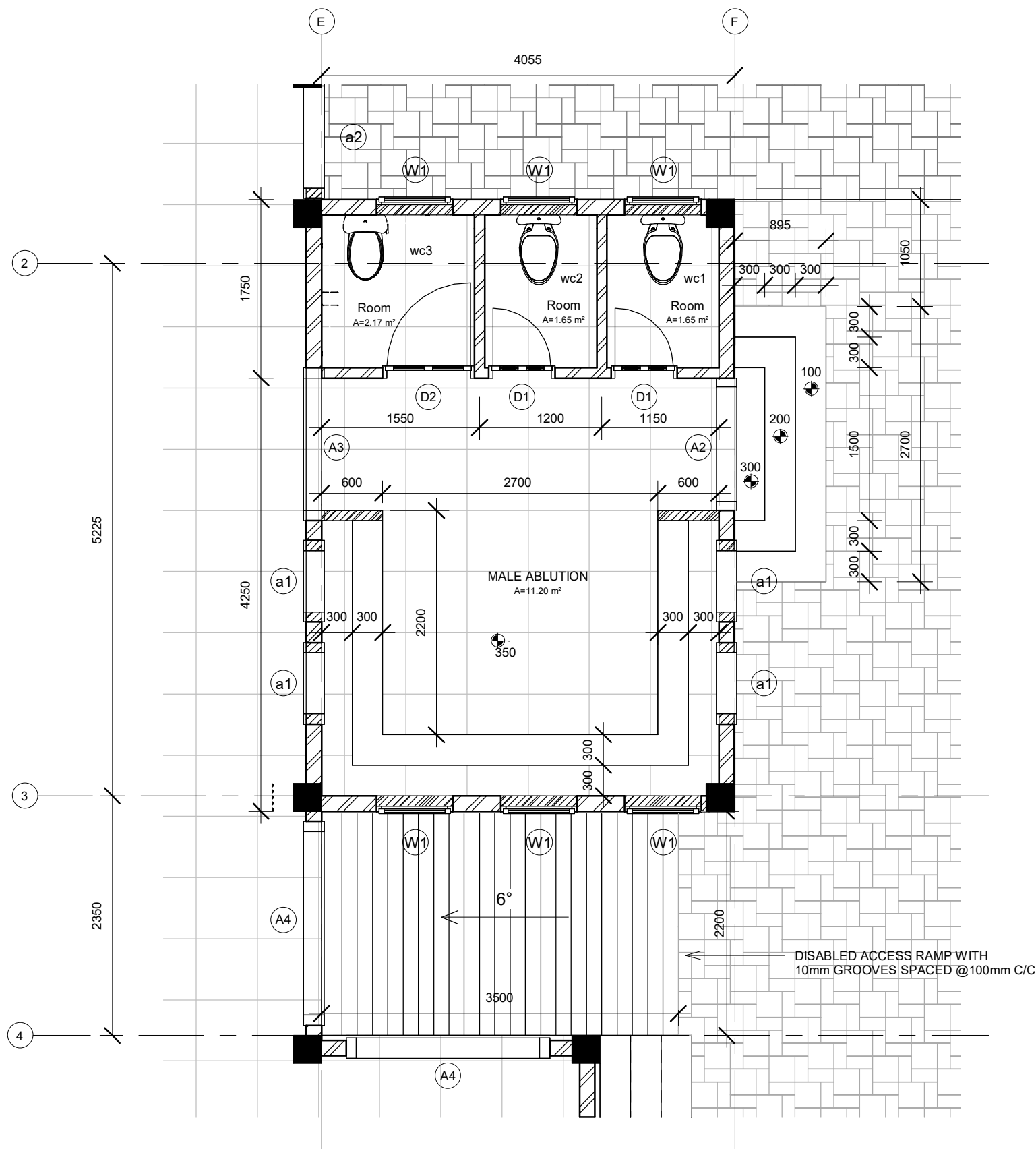


STEPS SECTION



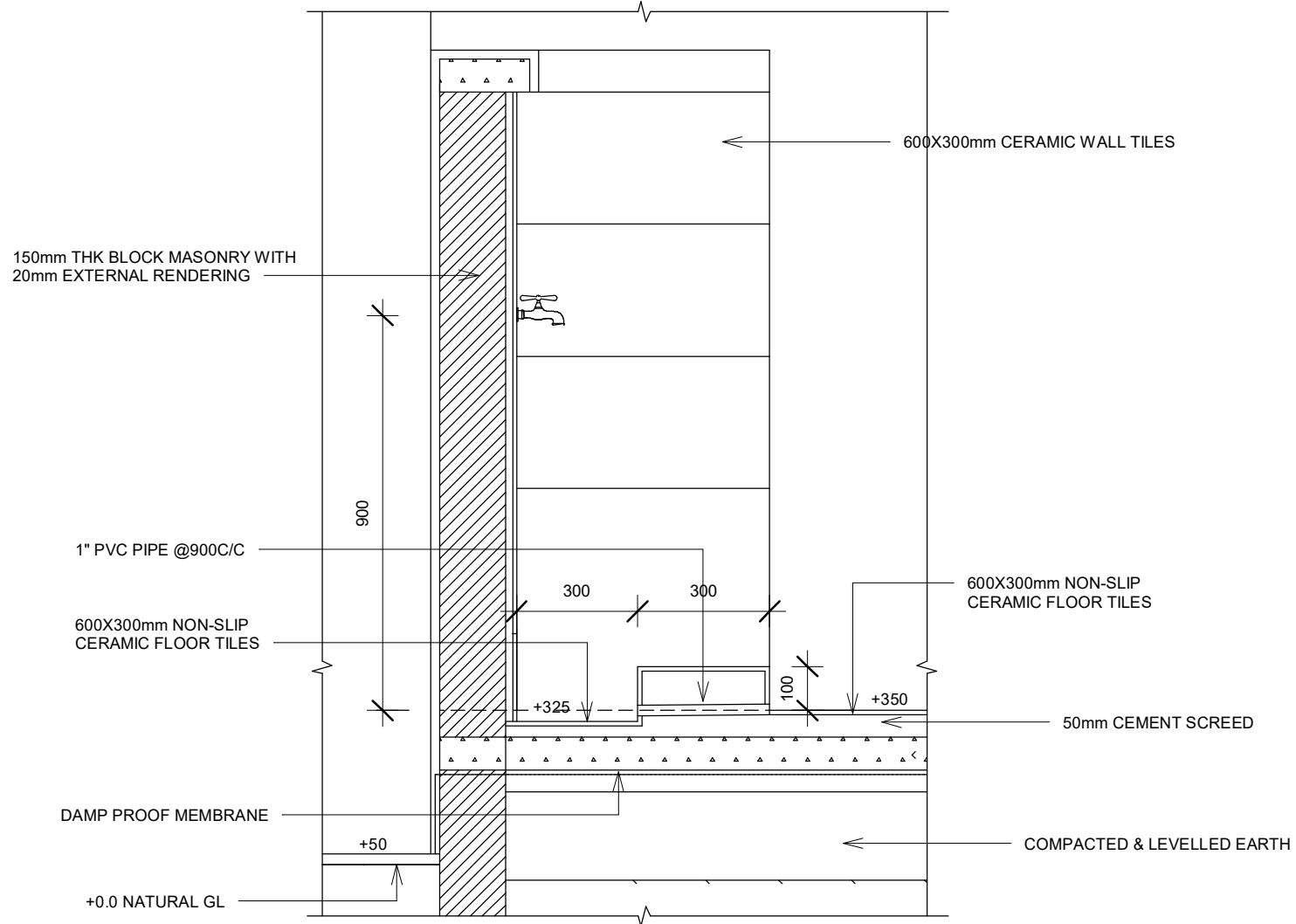
RAMP

1 : 25



ABLUTION AREA

1 : 50



ABLUTION AREA DETAILS

1 : 25

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REVISIONS

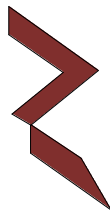
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ARCHITECT Ismail Rasheed

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B, C.D.P, N.K.P, M.E.I

INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY Akila Dilshan

CHECKED BY Zunabath Abdul Majid

APPROVED BY

PROJECT NAME

Prototype Mosque : 500 pax

CLIENT Client: Ministry of Islamic Affairs

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

21/06/2024

DRAWING TITLES

ABLUTION AREA & RAMP DETAILS

SHEET SIZE

A2

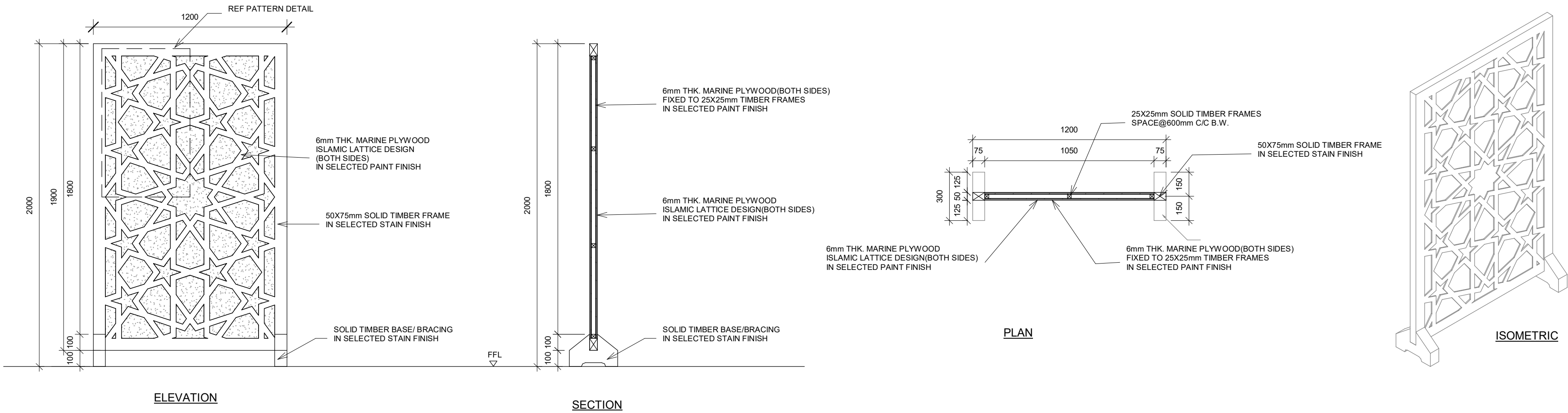
SCALE

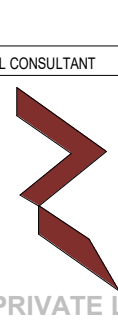
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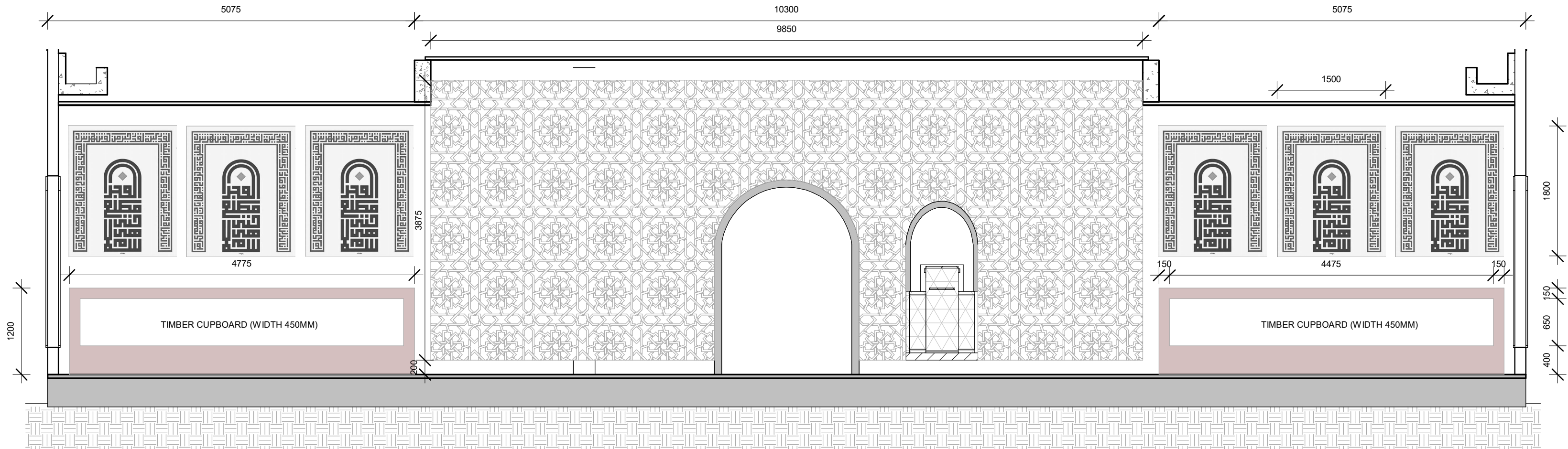
SHEET NO.

AR-116

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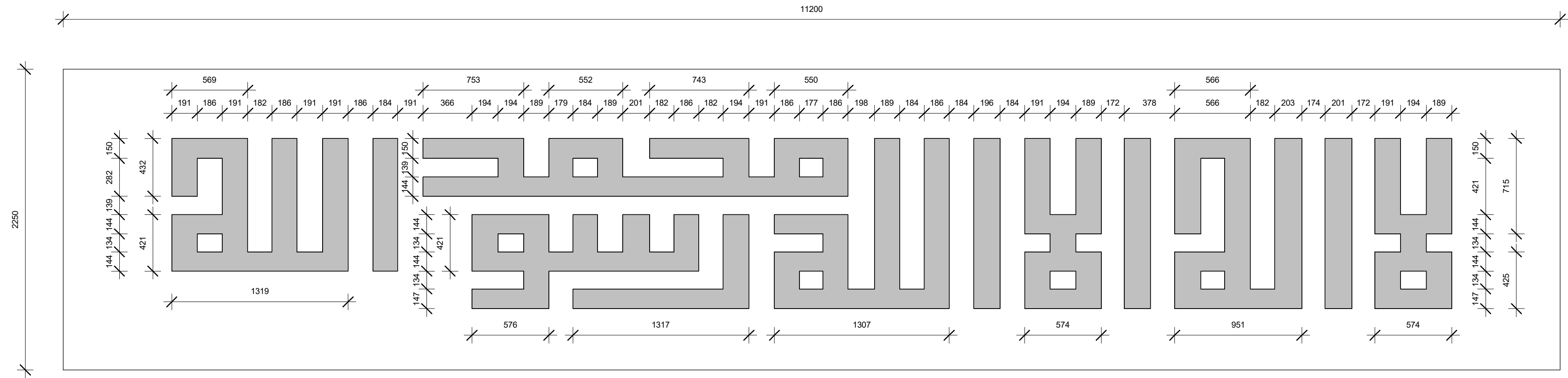


GENERAL NOTES				
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REVISIONS				
REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY
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-				
DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
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CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Mohamed Muthalib Waleed			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.J			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
CHECKED BY	Zunabath Abdul Majid			
APPROVED BY				
PROJECT NAME				
Prototype Mosque : 500 pax				
CLIENT				
Client: Ministry of Islamic Affairs				
DEVELOPER				
-				
ATOLL				
---				
ISLAND				
---				
LAGOON (GPS COORDINATES)				
-				
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 500 pax				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			21/06/2024	
DRAWING TITLES				
FEATURE DETAILS				
SHEET SIZE		A2	SCALE	As indicated
SHEET NO.				
AR-117				
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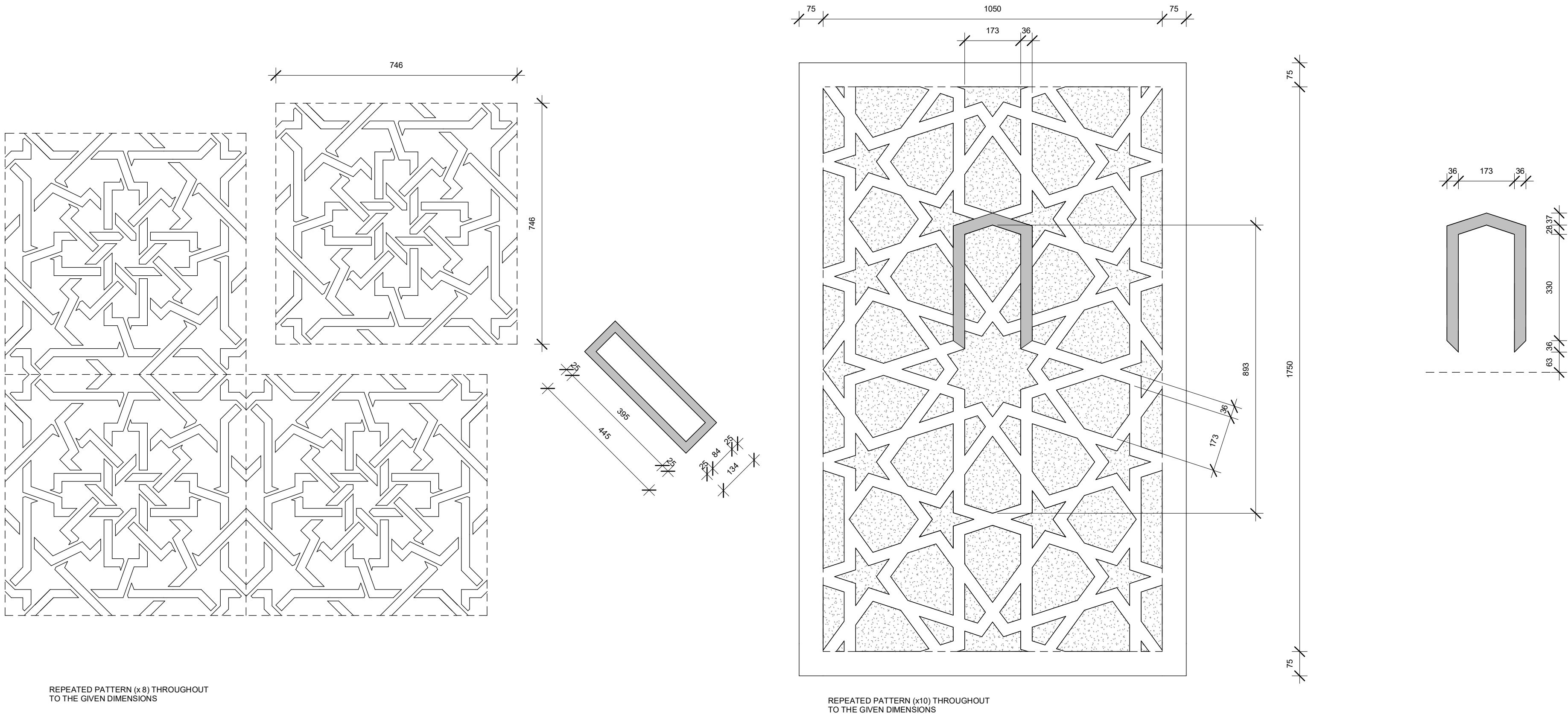
FEATURED BACK WALL

1 : 50



DETAILED LETTER DESIGN

1 : 25



FEATURED BACK WALL PATTERN

1 : 10

PATTERN DESIGN FOR PARTITION SCREEN

1 : 10

GENERAL NOTES

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REVISIONS

REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY

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LEAD CONSULTANT

DESIGN CONSULTANT

REGISTERED LOCAL CONSULTANT



CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Ismail Rasheed

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B, C.D.P, N.K.P, M.E.I

INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY Akila Dilshan

CHECKED BY Zunabath Abdul Majid

APPROVED BY

PROJECT NAME

Prototype Mosque : 500 pax

CLIENT Client: Ministry of Islamic Affairs

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

21/06/2024

DRAWING TITLES

PATTERN DETAILS

SHEET SIZE

A2

SCALE

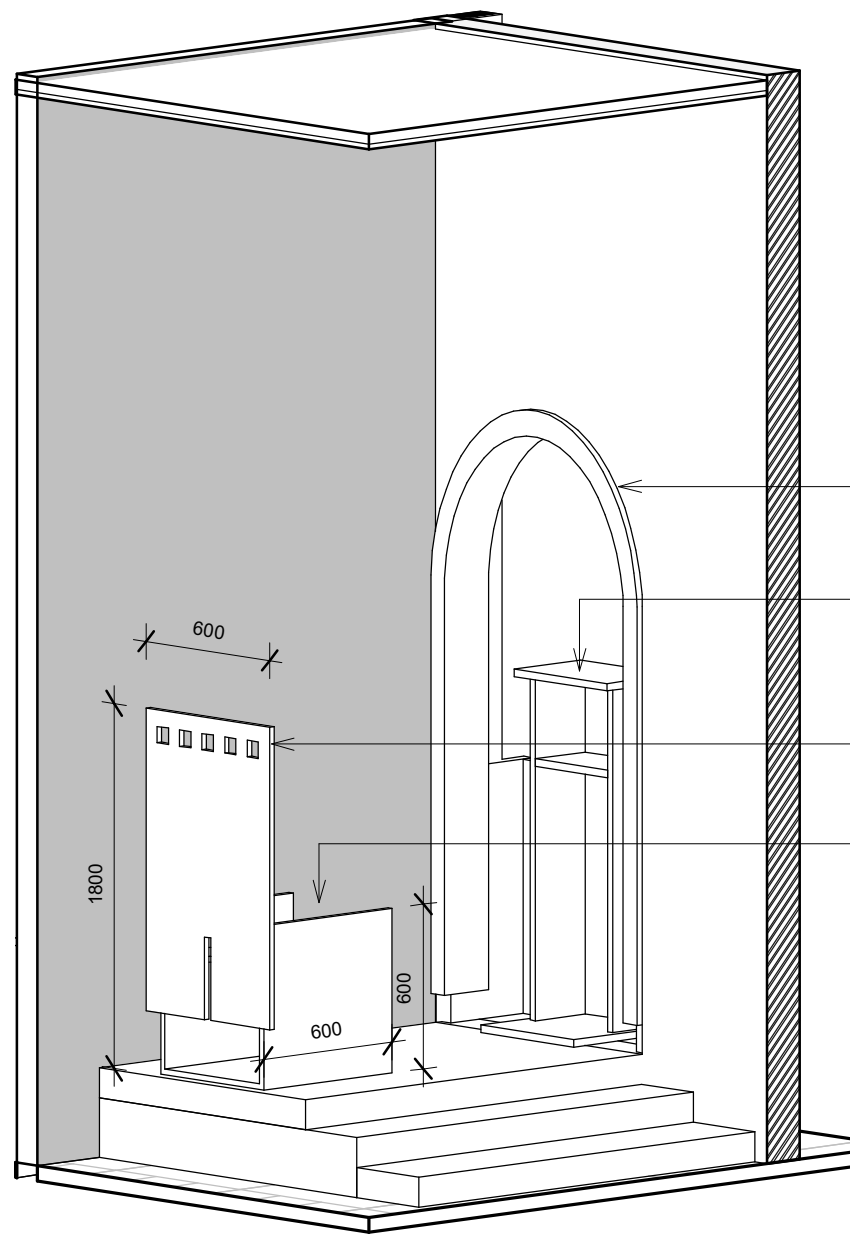
As indicated

SHEET NO.

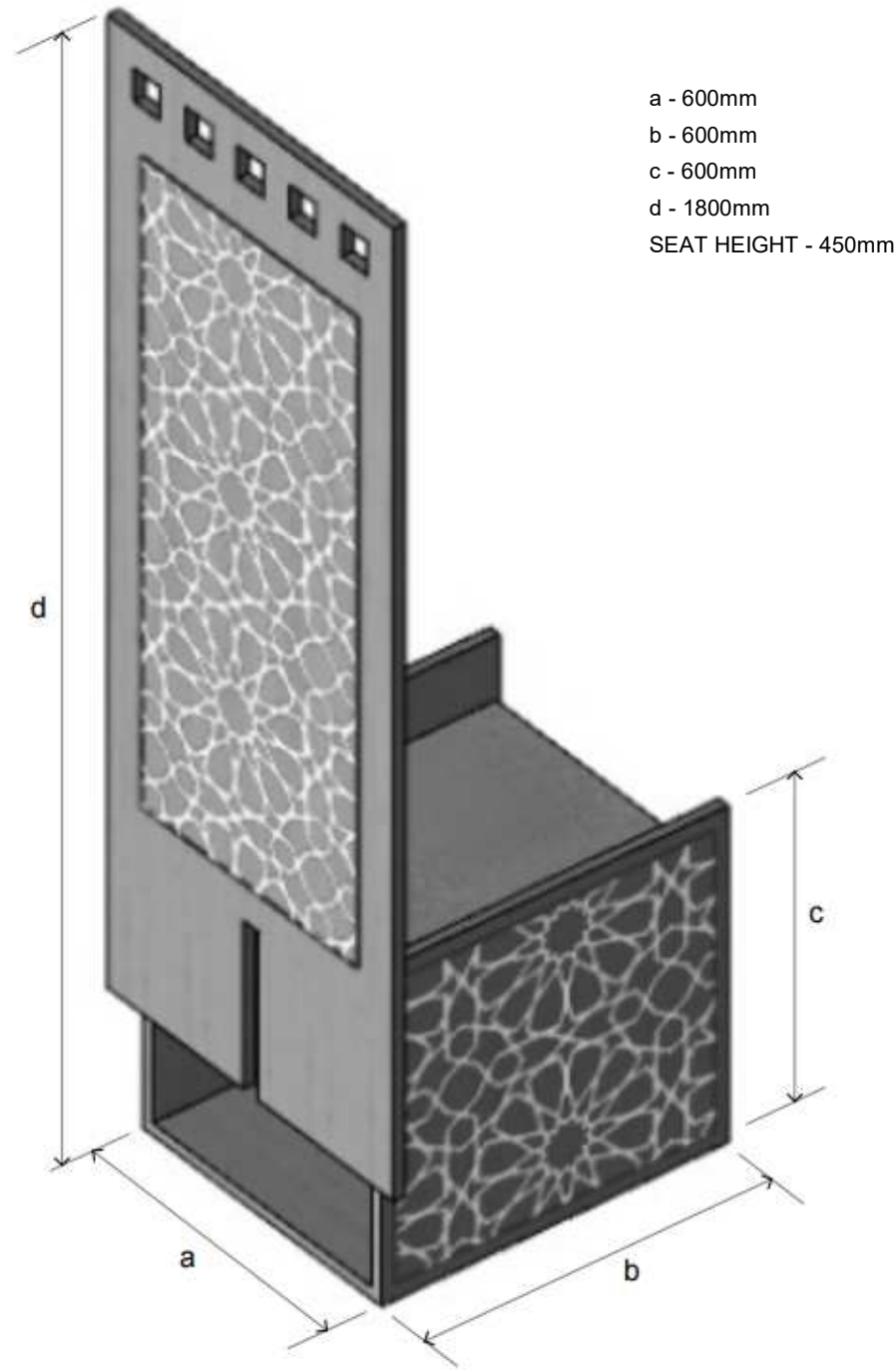
AR-118

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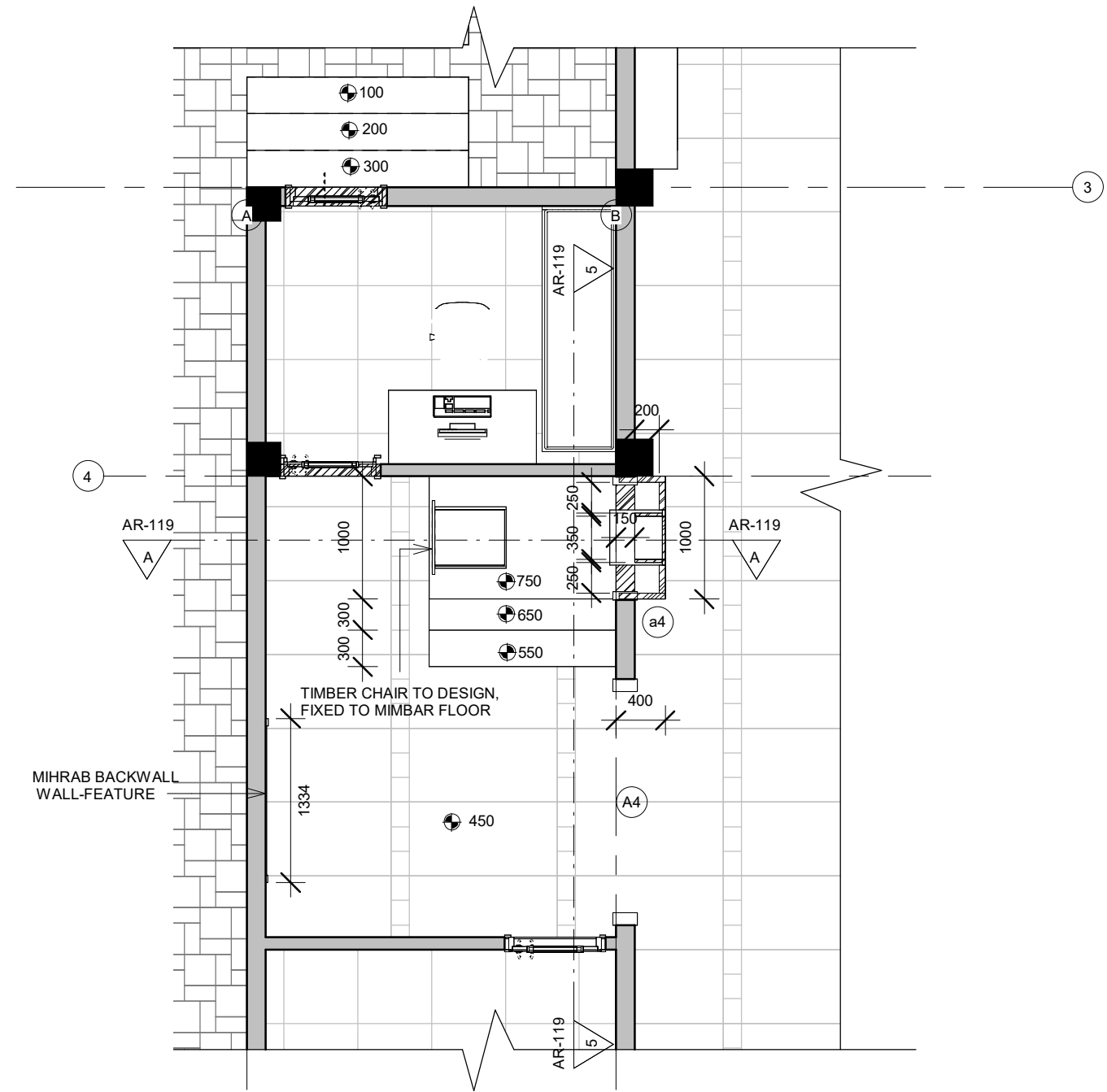


MIMBAR CHAIR



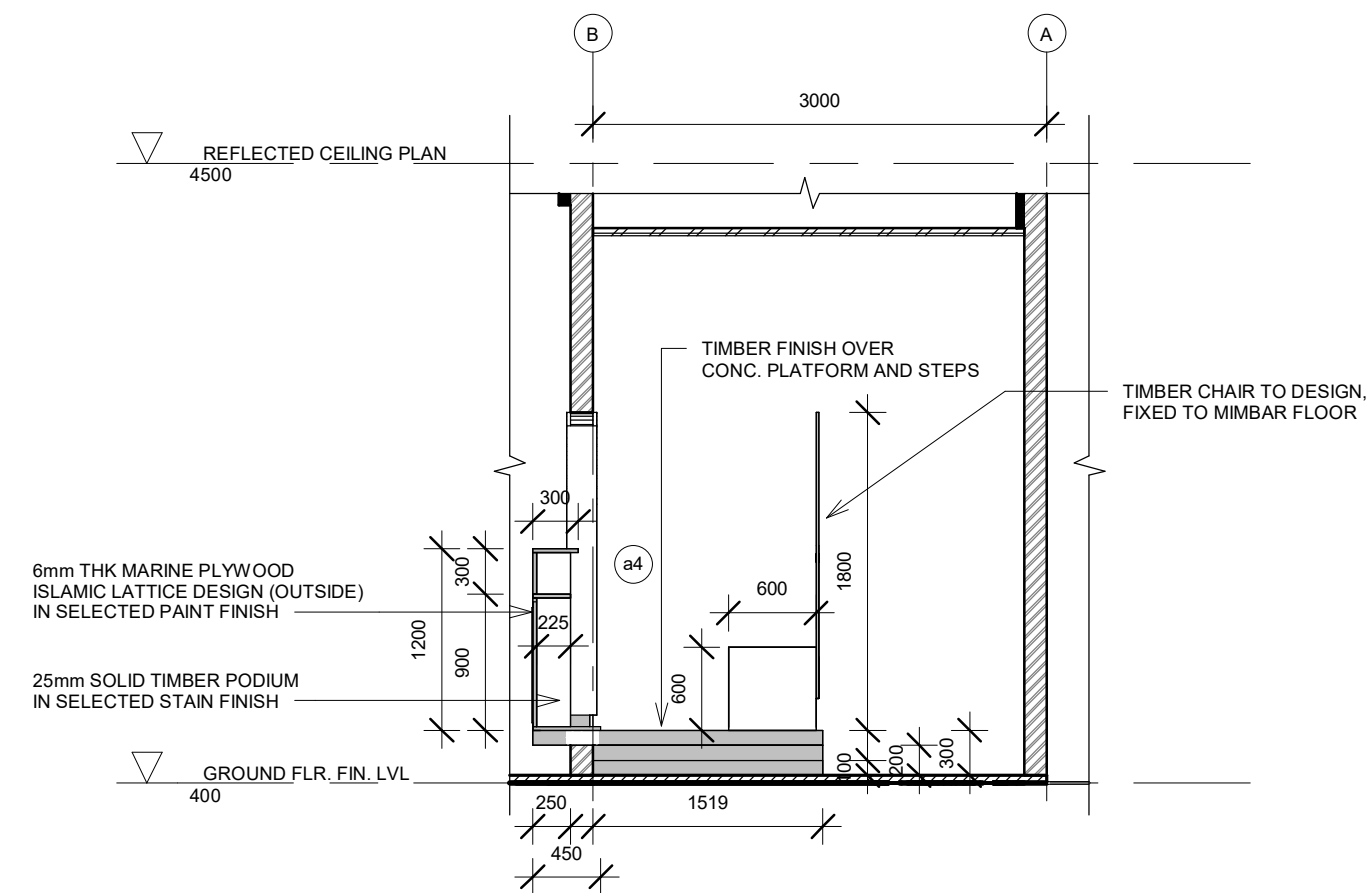
MIMBAR CHAIR

1 : 7



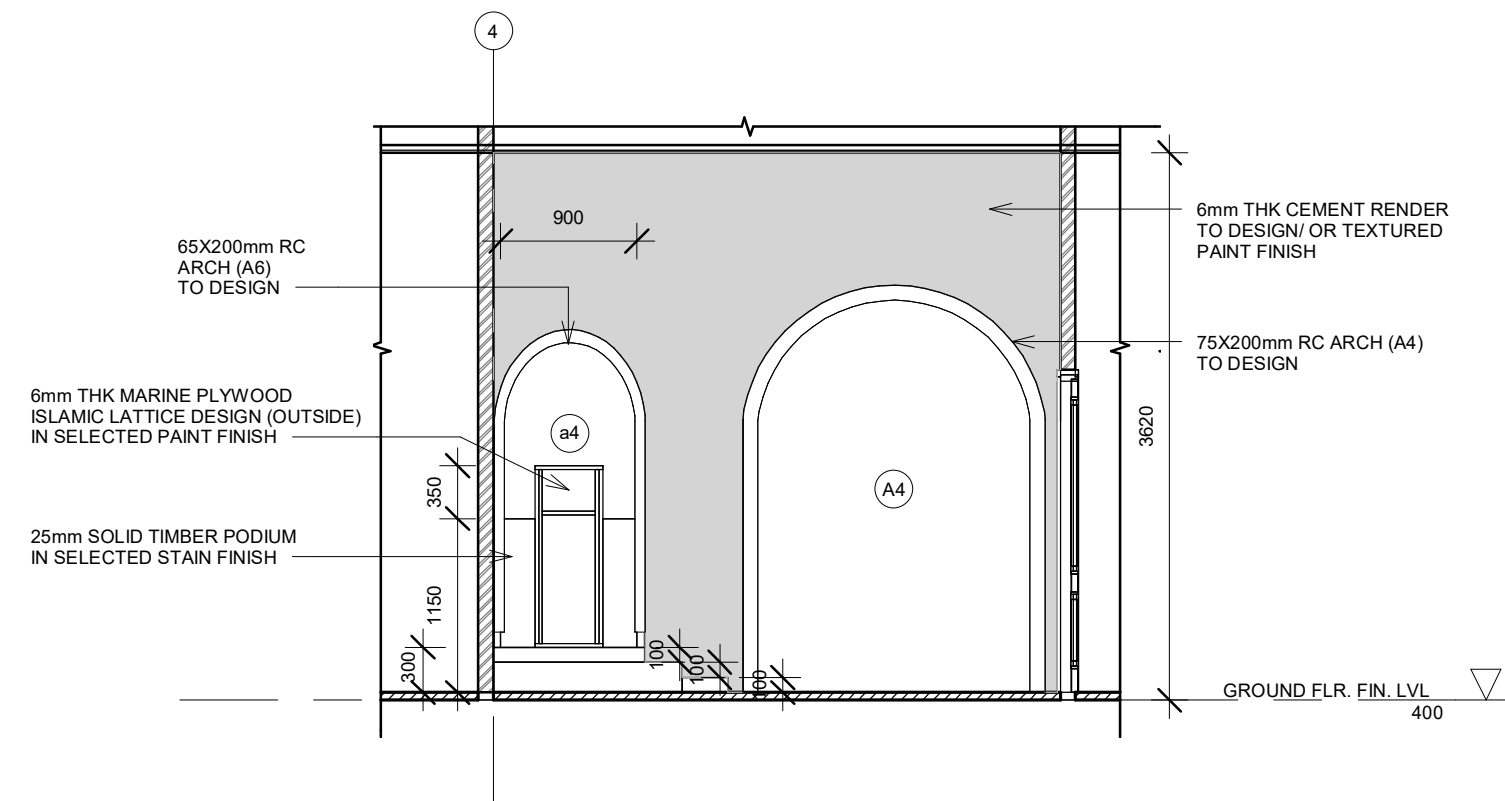
IMAM ROOM

1 : 50



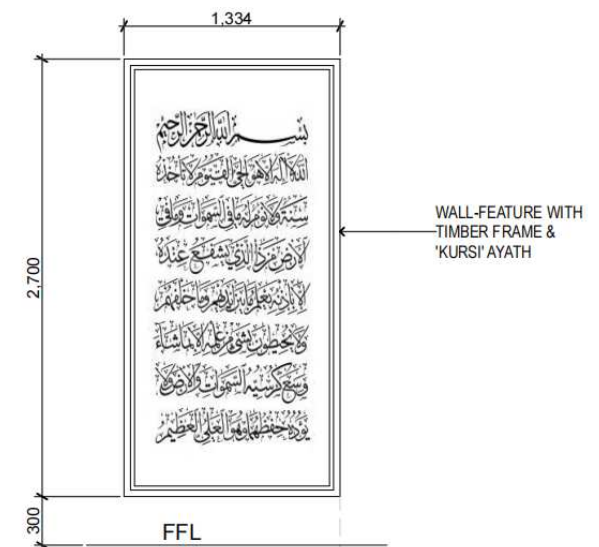
SECTION A

1 : 50



SECTION B

1 : 50



MINRAB BACKWALL FEATURE

1 : 50

GENERAL NOTES

- DO NOT SCALE FROM THIS DRAWING.
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
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REVISIONS

REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY

CONSULTANT

LEAD CONSULTANT

DESIGN CONSULTANT

REGISTERED LOCAL CONSULTANT



RIYAN PRIVATE LIMITED

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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	Ismail Rasheed
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.J
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Akila Dilshan
CHECKED BY	Zunabath Abdul Majid
APPROVED BY	

PROJECT NAME

Prototype Mosque : 500 pax

CLIENT Client: Ministry of Islamic Affairs

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

21/06/2024

DRAWING TITLES

MIHRAB & IMAM ROOM AREA

SHEET SIZE

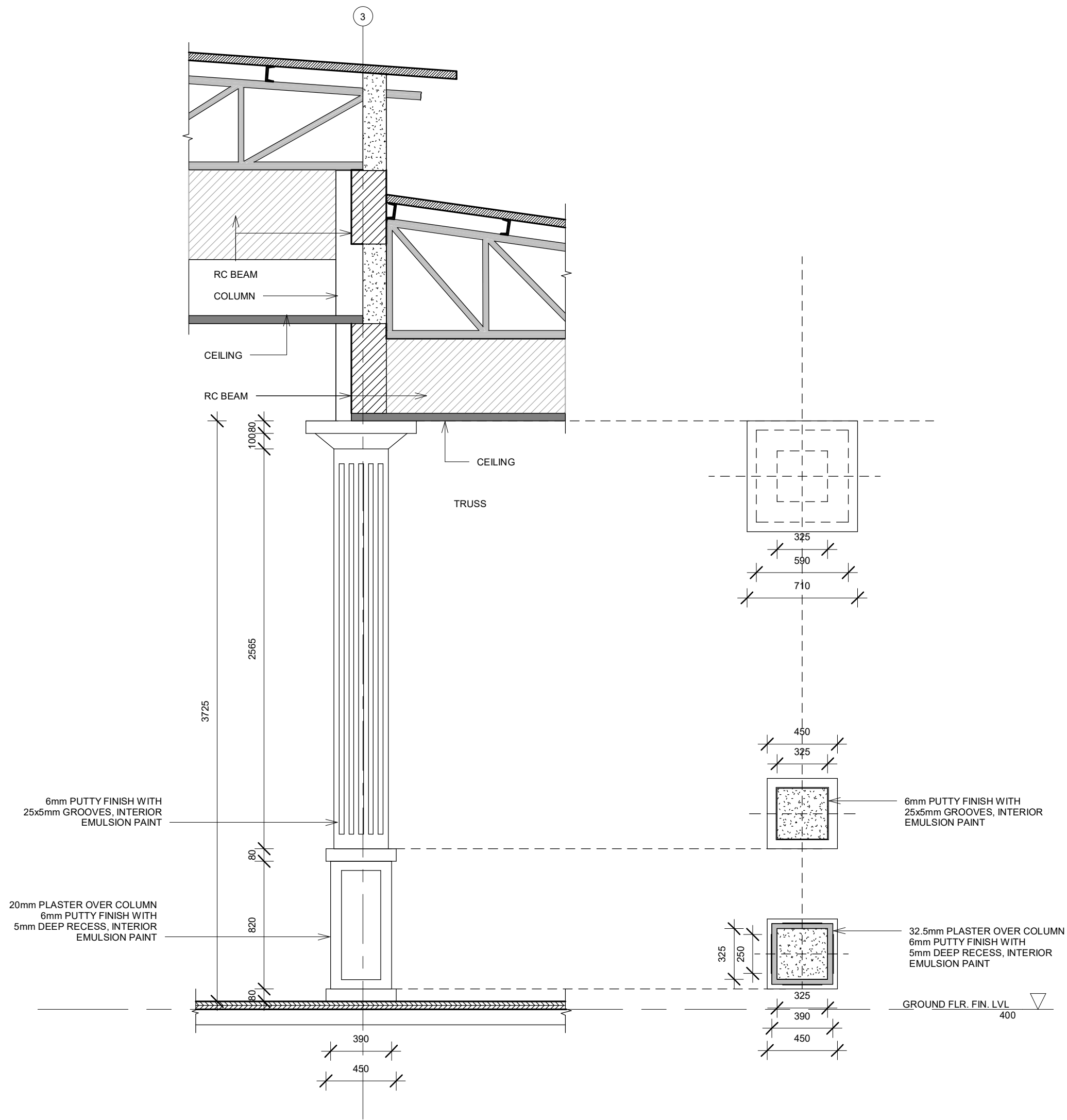
A2

SCALE As Indicated

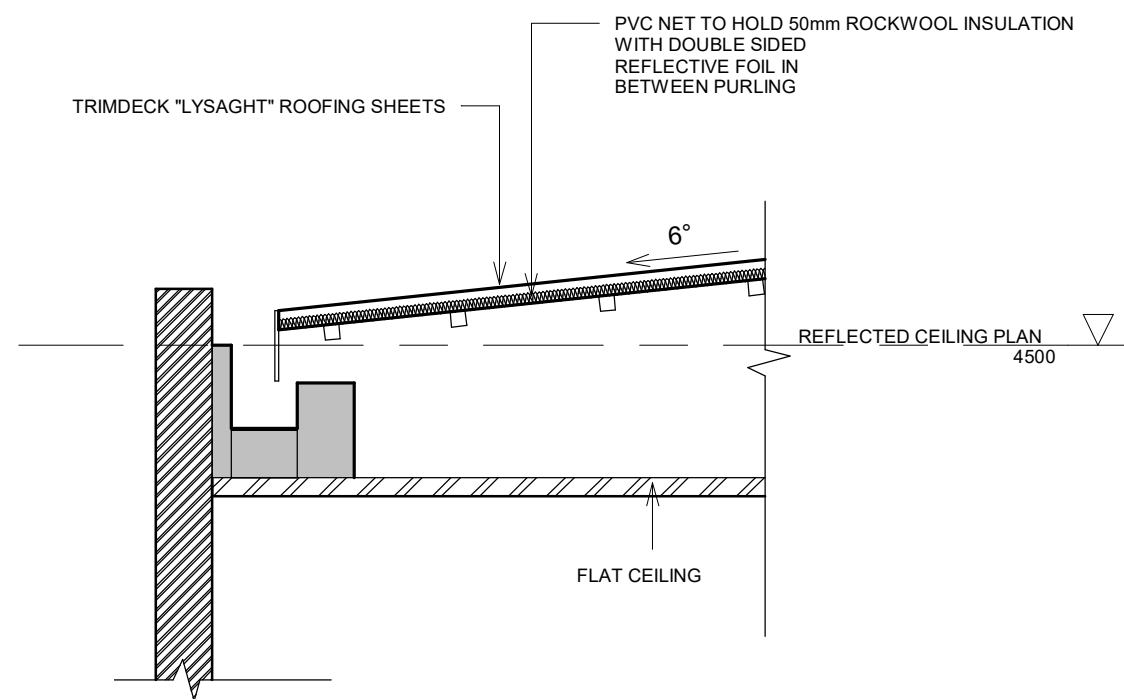
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AR-119

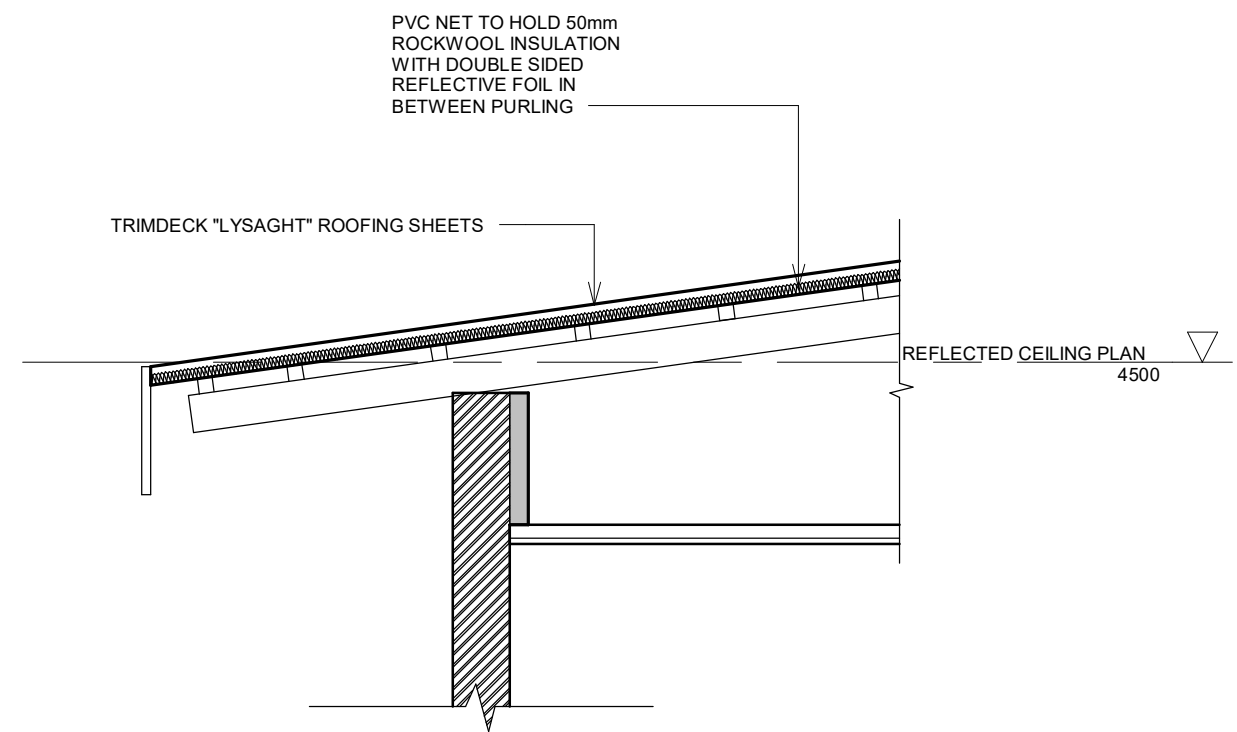
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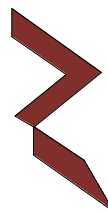
DECORATIVE INTERIOR COLUMN  
1 : 25



GUTTER DETAIL 01  
1 : 20



GUTTER DETAIL 02  
1 : 20

GENERAL NOTES				
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- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.				
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CONSULTANT				
LEAD CONSULTANT				
-				
DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
<div></div> <div>RIYAN PRIVATE LIMITED</div> <div>www.riyan.com.mv</div>				
CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Mohamed Muthalib Waleed			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
CHECKED BY	Zunabath Abdul Majid			
APPROVED BY				
PROJECT NAME				
Prototype Mosque : 500 pax				
CLIENT	Client: Ministry of Islamic Affairs			
DEVELOPER	-			
ATOLL	---			
ISLAND	---			
LAGOON (GPS COORDINATES)	-			
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 500 pax				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			21/06/2024	
DRAWING TITLES				
INTERIOR & GUTTER DETAILS				
SHEET SIZE		A2	SCALE As indicated	
SHEET NO.				
AR-120				
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- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS

REVISIONS

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CONSULTANT

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-

DESIGN CONSULTANT

-

REGISTERED LOCAL CONSULTANT



CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	Ismael Rasheed
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Akila Dithan
CHECKED BY	Zunabath Abdul Majid
APPROVED BY	-

PROJECT NAME

Prototype Mosque : 500 pax

CLIENT	Client: Ministry of Islamic Affairs
DEVELOPER	-
ATOLL	---
ISLAND	---
LAGOON (GPS COORDINATES)	-
ISSUED FOR	DO_DETAIL DESIGN

BUILDING NAME  
Mosque for 500 pax

BUILDING/STRUCTURE NO.	ISSUE DATE 21/06/2024
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DRAWING TITLES

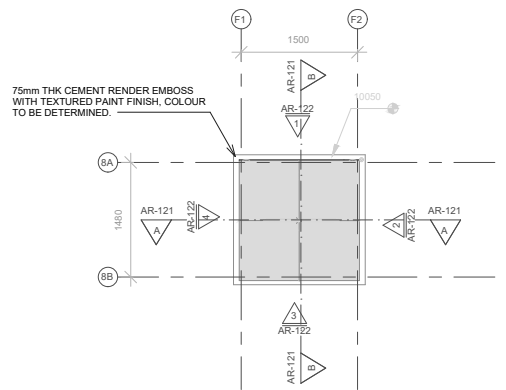
MINARET DETAILS

SHEET SIZE	A2	SCALE	1 : 50
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SHEET NO.

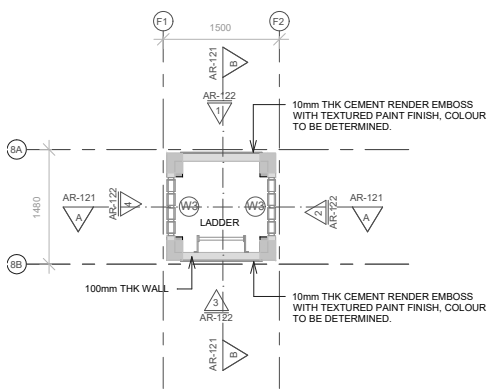
AR-121

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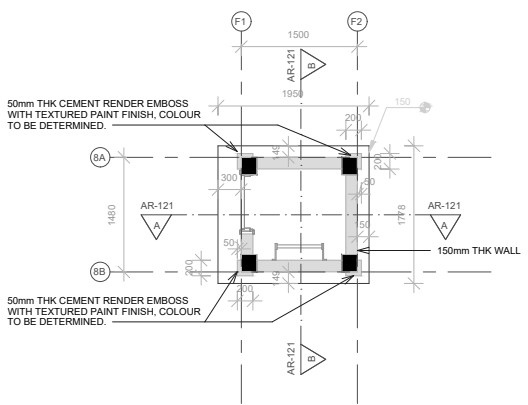
MINARET ROOF PLAN

1 : 50



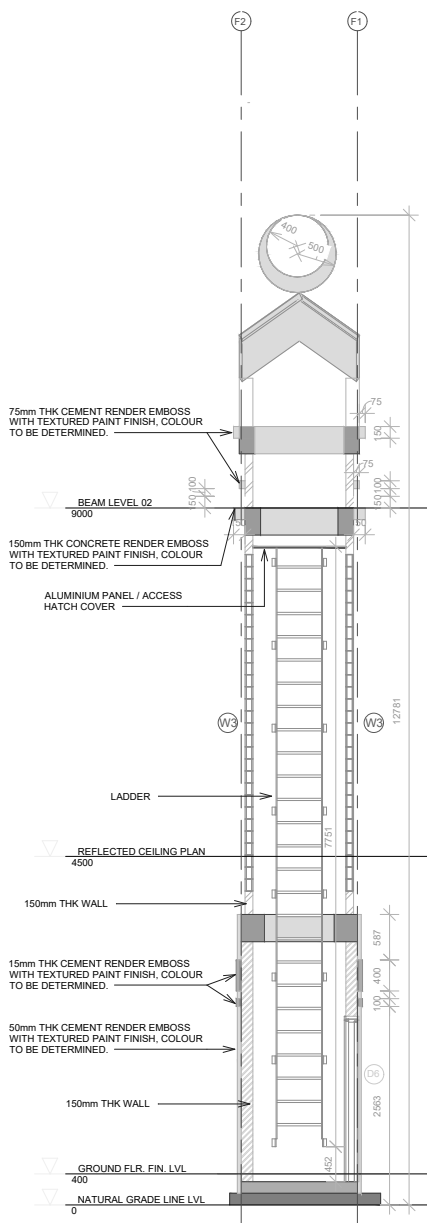
MINARET FIRST FLOOR LEVEL

1 : 50



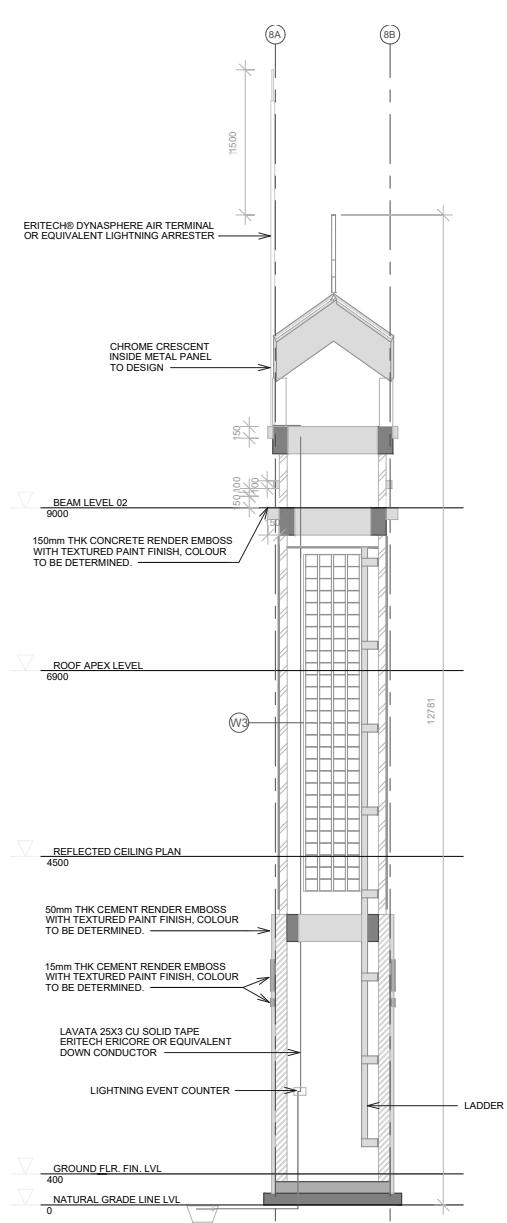
MINARET PLAN

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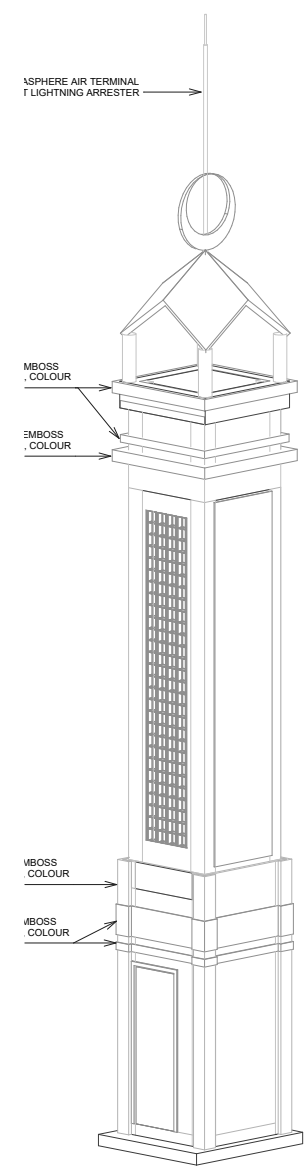
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1 : 50

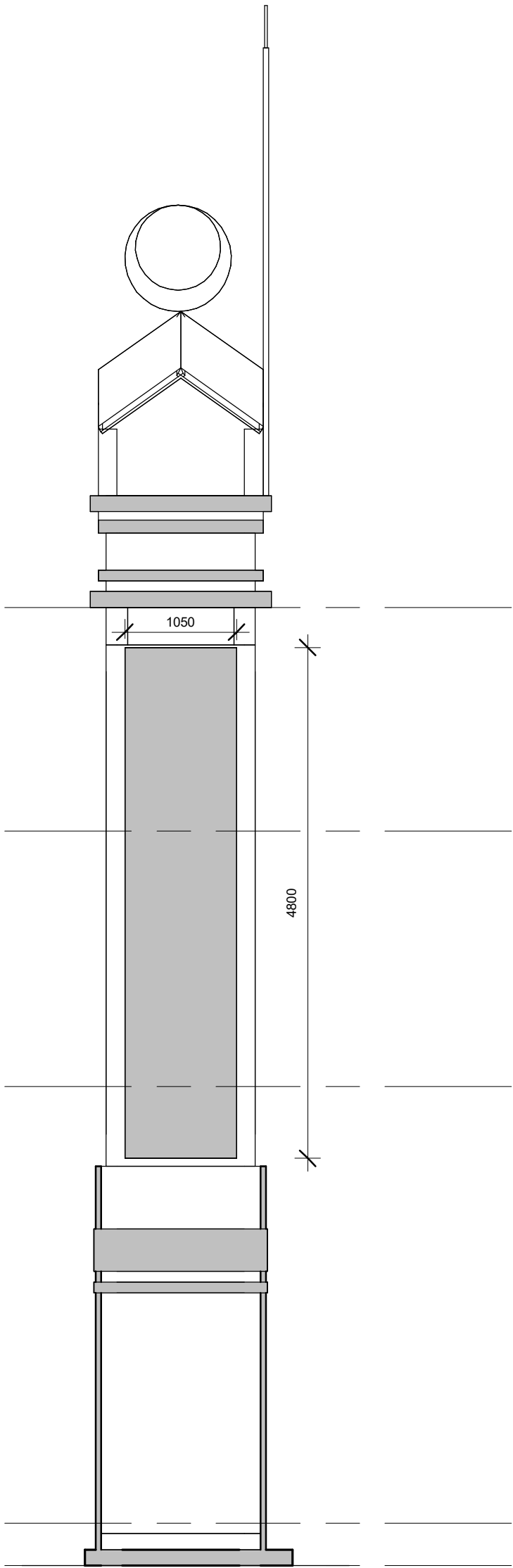


Section B

1 : 50

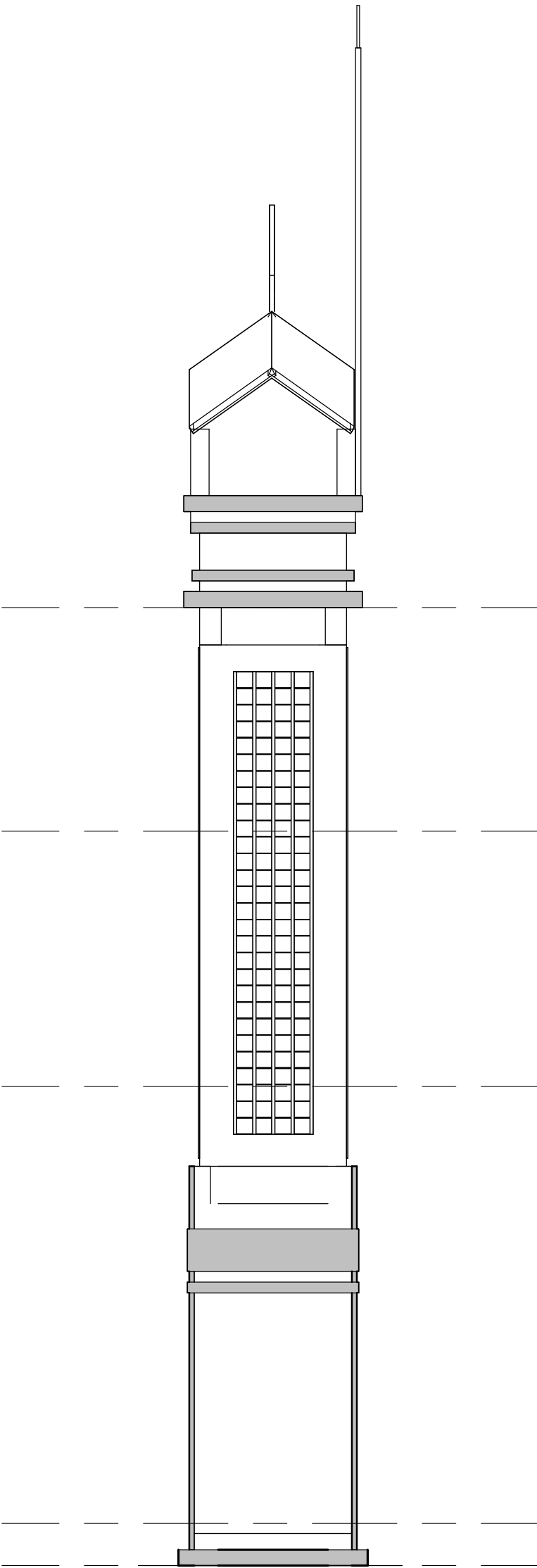


3D VIEW 01



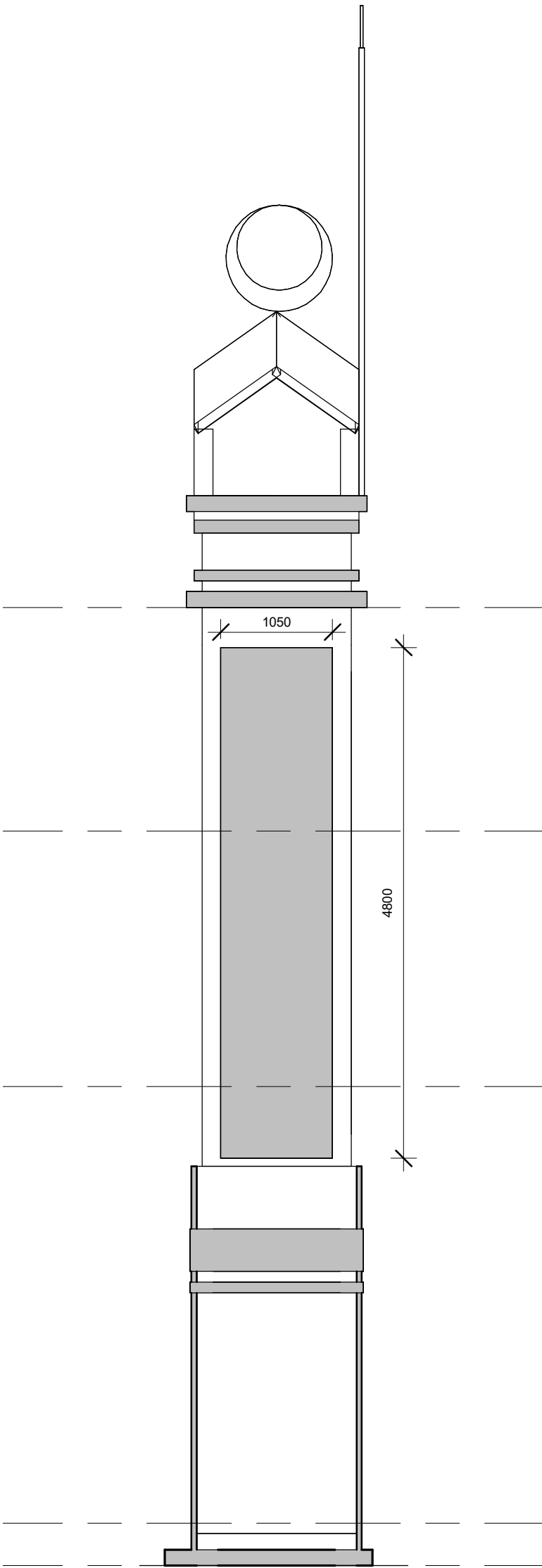
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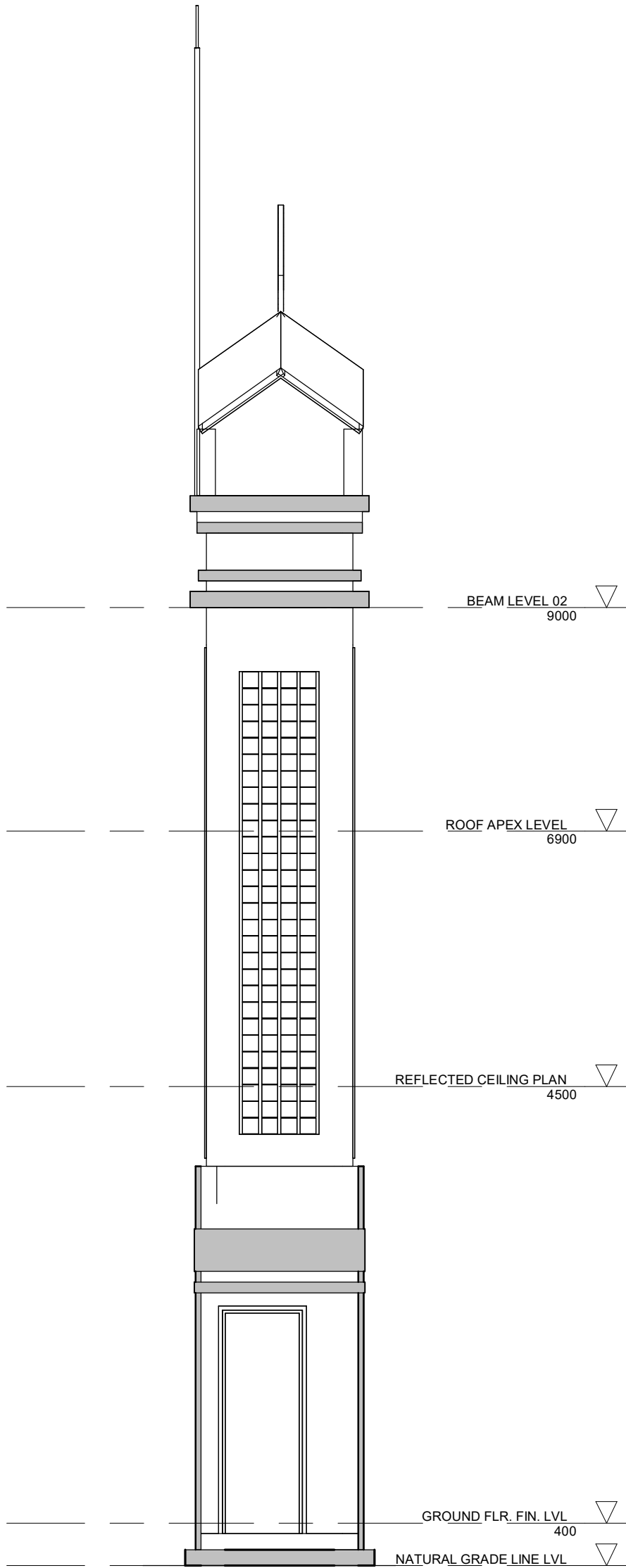
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1 : 50



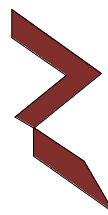
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1 : 50

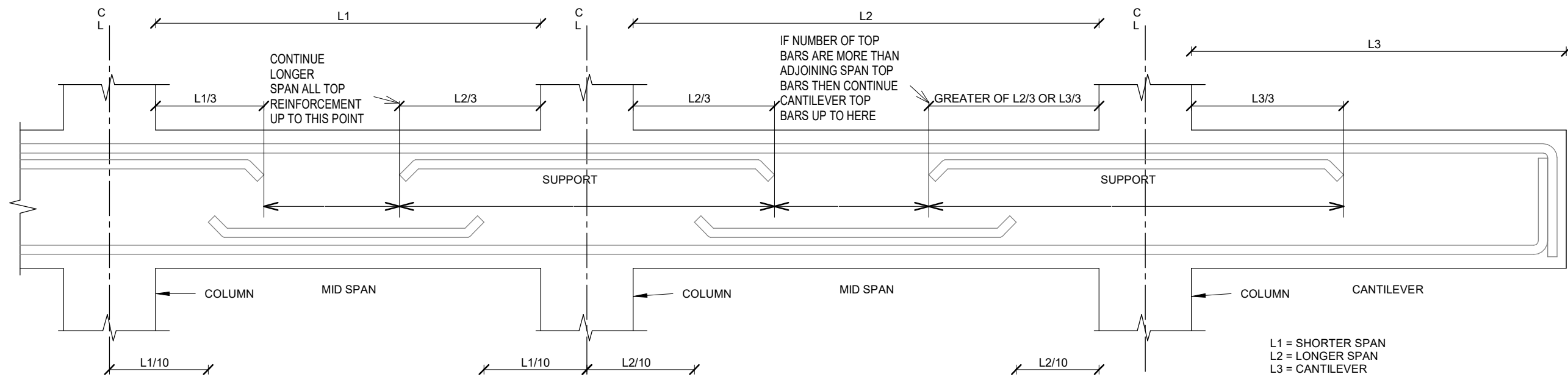
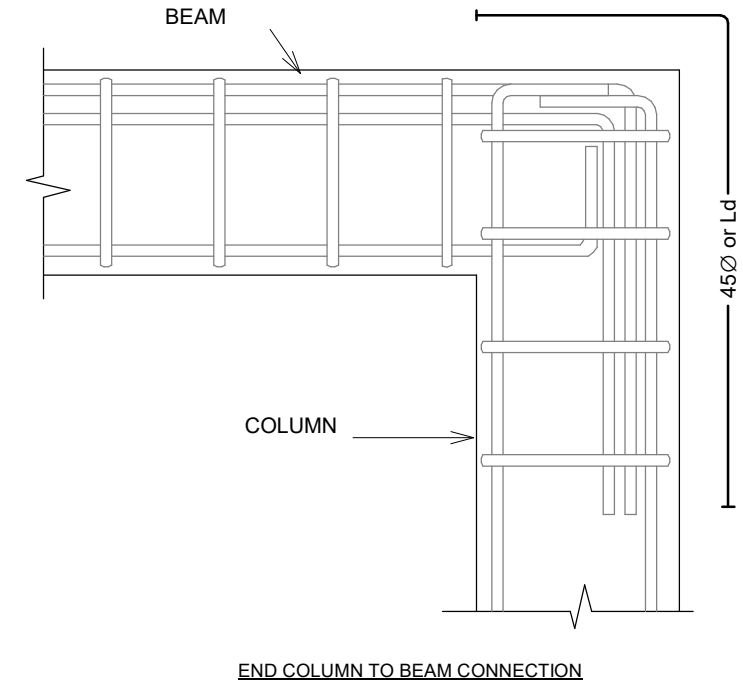
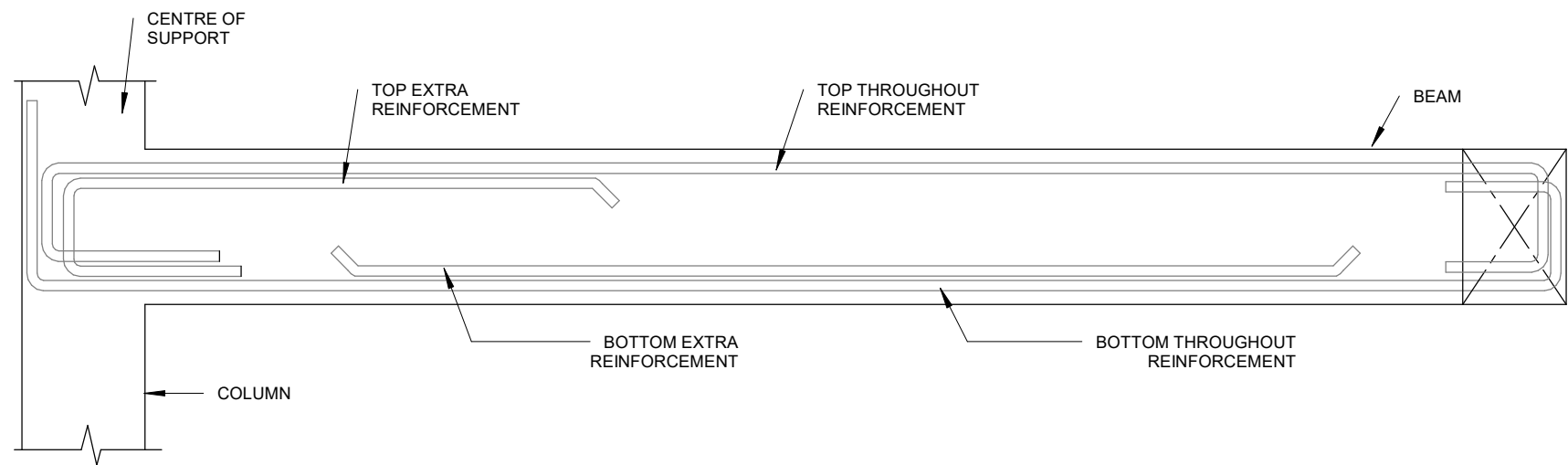


ELEVATION - E4

1 : 50

GENERAL NOTES				
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REVISIONS				
REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY
CONSULTANT				
LEAD CONSULTANT				
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DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
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CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Mohamed Muthalib Waleed			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
CHECKED BY	Zunabath Abdul Majid			
APPROVED BY				
PROJECT NAME				
Prototype Mosque : 500 pax				
CLIENT	Client: Ministry of Islamic Affairs			
DEVELOPER	-			
ATOLL	---			
ISLAND	---			
LAGOON (GPS COORDINATES)	-			
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 500 pax				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			21/06/2024	
DRAWING TITLES				
MINARET DETAILS 2				
SHEET SIZE		A2	SCALE 1 : 50	
SHEET NO.				
AR-122				
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GENERAL NOTES		GENERAL NOTES		- DO NOT SCALE FROM THIS DRAWING. - THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS. - CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS. - ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.	
THE GENERAL NOTES SHALL BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS AND DRAWINGS. REGARDLESS OF WHETHER OR NOT SHOWN IN DRAWINGS OR OTHER TENDER DOCUMENTS, THE STANDARD PROVISIONS SPECIFIED HEREUNDER FOR COMPLIANCE BY THE CONTRACTOR SHALL APPLY TO ALL RELEVANT PORTIONS OF THE STRUCTURAL WORKS AND SHALL FORM PART OF THIS CONTRACT.		9.0 FOUNDATIONS		20.0 STRUCTURAL STEEL SPECIFICATION	
1.0 VERIFICATION OF DIMENSIONS AND LEVELS		•THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LEVELS ON SITE, AND RESOLVE ALL DISCREPANCIES WITH THE ARCHITECT OR ENGINEER PRIOR TO COMMENCEMENT OF WORK. •DRAWING INDICATES GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE OF SIMILAR CHARACTER TO DETAILS SHOWN AND ALTHOUGH NOT SPECIFICALLY INDICATED, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECTED TO REVIEW BY THE ENGINEER. •PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LEVELS IN THE CONTRACT DRAWINGS. •DISCREPANCIES IN DRAWINGS ARISING FROM SUCH VERIFICATION WORKS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.		1. SEE 21.0 ON PRIMARY CODES AND SPECIFICATIONS.	
2.0 SHOP DRAWINGS		•CONSTRUCTION LIVE LOAD IMPOSED ON ANY SINGLE FLOOR SHALL NOT EXCEED 1.5 KN/M2. UNLESS OTHERWISE APPROVED BY THE ENGINEER, DEAD LOAD OF THE TOP CONSTRUCTION FLOOR SHALL BE SUPPORTED BY TWO COMPLETED FLOORS DIRECTLY BELOW IT. •PROPS TO BEAMS AND SLABS AT ANY FLOORS SHALL NOT BE REMOVED UNTIL THE TWO IMMEDIATE FLOORS ABOVE THAT LEVEL ARE CAPABLE OF SUPPORTING THEMSELVES AS WELL AS ANY LOADS IMPOSED DURING CONSTRUCTION. CONSIDERATIONS GOVERNING REMOVAL OF PROPS INCLUDE BUT ARE NOT LIMITED TO THE ATTAINMENT OF 28-DAY STRENGTH FOR THE CONCRETE, DESIGN LOAD CAPACITY OF THE FLOOR UNDER REVIEW AND THE COMPLETION OF PRESTRESSING AND GROUTING OPERATIONS IN THE CASE OF A PRESTRESSED STRUCTURAL FLOOR SYSTEM.		2. MATERIALS:	
2.0 SHOP DRAWINGS		•PROPS SHALL BE LEFT IN PLACE FOR SUPPORTING THE CONSTRUCTION LOADS APPROVED BY THE ENGINEER. •NO ALLOWANCE HAS BEEN MADE IN THE DESIGN OF THE PERIMETER BEAMS/WALLS FOR THE SUPPORT OF TEMPORARY SCAFFOLDINGS. •THE CONTRACTER SHALL ENGAGE HIS OWN PROFESSIONAL ENGINEER TO DESIGN AND STRENGTHEN THE BEAMS/WALLS. •THE CONTRACTER SHALL ENGAGE HIS OWN PROFESSIONAL ENGINEER CHECK THE ADEQUACY OF SHORING DETAIL PROVIDED PROCEEDING THE WORK, AS SHORING WAS DESIGNING, CONSIDERING THE STATUS OF THE BUILDING AT THE TIME OF DESIGN.		W-SHAPES & WT-SHAPES..... ASTM A992 S-SHAPES, M-SHAPES, HP-SHAPES..... ASTM A36 ST-SHAPES & MT-SHAPES..... ASTM A36 C-SHAPES & MC-SHAPES..... ASTM A36 ANGLES & PLATES..... ASTM A36 HSS SHAPES..... ASTM A500, GRADE B STEEL PIPE..... ASTM A53 (TYPE E OR S), GRADE B HIGH STRENGTH BOLTS..... ASTM A325 MACHINE BOLTS..... ASTM A307 ANCHOR RODS..... ASTM F1554, GRADE 55 TYPE S1(UNO) WELDED HEADED STUDS..... ASTM A108 DEFORMED BAR ANCHORS..... ASTM A496 WELDING ELECTRODES..... AWS D1.1, E70 SERIES	
3.0 INCORPORATION OF M&E REQUIREMENTS IN THE STRUCTURE		11.0 CONCRETE COVER		3. NON-SHRINK, NON-METALLIC GROUT WITH A 28 DAY STRENGTH OF 35MPa SHALL BE USED UNDER BASE PLATES AND SHALL CONFORM TO BS EN 12390-3 AND EN 196-1. MASTERFLOW 542 OR EQUIVALENT MAYBE USED.	
4.0 LEAN CONCRETE FOR SUSPENDED STRUCTURES		•MINIMUM COVER TO OUTERMOST REINFORCEMENT INCLUDING LINKS SHALL BE AS FOLLOWS.		13.0 POST-INSTALLED ANCHORS	
5.0 STRUCTURAL ELEMENTS ON GRADE		STRUCTURAL ELEMENTCOVER (mm)		1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD (EOR) PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSINGS OR MISPLACED ANCHORS.	
6.0 SUBGRADE UNDER STRUCTURAL ELEMENTS		12.0 MATERIAL STRENGTHS		2. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCING WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE.	
7.0 WATERPROOFING FOR STRUCTURES		12.1 CONCRETE		3. SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL ADHESIVE AND MECHANICAL ANCHOR INSTALLATIONS AS REQUIRED BY THE EOR. INDEPENDENT ON-SITE PROOF LOAD TESTING SHALL BE PERFORMED AS REQUIRED BY THE EOR. CONTACT EOR FOR NUMBER OF ANCHORS REQUIRED TO BE TESTED AND REQUIRED PROOF LOAD MAGNITUDE.	
8.0 CASTING LAYERS		12.2 REINFORCEMENT		13.0 STIRRUPS, LINKS AND TIES	
9.0 CASTING LAYERS		12.25 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		•ALL STIRRUPS, LINKS AND TIES IN BEAMS, COLUMNS AND WALLS RESPECTIVELY SHALL TERMINATE NOT MORE THAN 75mm FROM THE FACE OF ANY ADJACENT STRUCTURAL MEMBERS.	
10.0 CASTING LAYERS		12.30 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		14.0 SLAB DISTRIBUTION BARS	
11.0 CASTING LAYERS		12.35 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		•REGARDLESS OF WHETHER OR NOT SHOWN ON PLAN, ALL DISTRIBUTION BARS FOR SLAB SHALL COMPRISE TYPICALLY ONE OF THE FOLLOWING COMBINATIONS, UNLESS OTHERWISE STATED IN THE RELEVANT DRAWINGS :	
12.0 CASTING LAYERS		12.40 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		15.0 FLOOR RENDERING	
13.0 CASTING LAYERS		12.45 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		•THICKNESS OF SCREED RENDERING/MASS CONCRETE TOPPING EXCEEDING 60 OR MORE SHALL BE REINFORCED WITH ONE LAYER OF R6.	
14.0 CASTING LAYERS		12.50 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		16.0 SHRINKAGE CRACKS	
15.0 CASTING LAYERS		12.55 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		•THE SURFACE OF CONCRETE SHALL BE ADEQUATELY AND CONTINUOUSLY CURED TO SPECIFICATION TO PREVENT FORMATION OF SHRINKAGE CRACKS.THOUGH SHRINKAGE CRACKS HAVE NO EFFECT ON THE STRENGTH AND INTEGRITY OF THE STRUCTURE,THEY SHOULD BE SEALED BY EPOXY PRESSURE GROUTING. ALL COST INCURRED FOR THE NECESSARY SEALING UP OF SHRINKAGE CRACKS BY EPOXY PRESSURE GROUTING SHALL BE DEEMED TO BE INCLUDED IN THE CONCRETE WORK AS TENDERED. .	
16.0 CASTING LAYERS		12.60 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		17.0 STEEL BAR CORROSION PROTECTION	
17.0 CASTING LAYERS		12.65 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		•ALL EXPOSED BARS FOR FUTURE CONSTRUCTION PURPOSES (EXCEEDING 3 MONTHS) MUST BE COATED WITH MASTER EMACO 8100 AP OR APPROVED EQUIVALENT AND PROVIDED WITH ADEQUATE MAINTENANCE.	
18.0 CASTING LAYERS		12.70 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		19.0 STRUCTURAL TIMBER SPECIFICATION	
19.0 CASTING LAYERS		12.75 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		19.1 THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE, AND ARE NOT INTENDED TO INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES, AND FOR JOB SAFETY.	
20.0 CASTING LAYERS		12.80 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		19.2 THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	
21.0 CASTING LAYERS		12.85 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		19.3 ALL CONSTRUCTION IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.	
22.0 CASTING LAYERS		12.90 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		19.4 ALL TIMBER FOR STRUCTURAL USE SHALL BE HARDWOOD OR SOFTWOOD OF VISUAL GRADE C/D IN ACCORDANCE WITH BS 5756 WITH THE FOLLOWING MINIMUM GRADE STRESSES:	
23.0 CASTING LAYERS		12.95 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		19.5 CONNECTIONS	
24.0 CASTING LAYERS		13.00 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		PLATES - STAINLESS STEEL GRADE 316 OF STATED THICKNESS BOLTS - SS GRADE 316	
25.0 CASTING LAYERS		13.05 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		19.6 TIMBER TREATMENT	
26.0 CASTING LAYERS		13.10 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		MOISTURE - PRESSURE IMPREGNATION OF CCA INSECTS - TERMITE TREATMENT FOR TIMBER IN / NEAR GROUND	
27.0 CASTING LAYERS		13.15 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		CONSULTANT PROJECT NO. R24002MIA	
28.0 CASTING LAYERS		13.20 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		ARCHITECT Ismail Rasheed	
29.0 CASTING LAYERS		13.25 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		CIVIL ENGINEER Mohamed Muthalib Waleed	
30.0 CASTING LAYERS		13.30 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		MEP ENGINEER M.K.B, C.D.P, N.K.P, M.E.I	
31.0 CASTING LAYERS		13.35 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		INT. DESIGNER -	
32.0 CASTING LAYERS		13.40 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		INFRA. DESIGNER -	
33.0 CASTING LAYERS		13.45 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		DRAWN BY Akila Dilshan	
34.0 CASTING LAYERS		13.50 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		CHECKED BY Zunabath Abdul Majid	
35.0 CASTING LAYERS		13.55 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		APPROVED BY	
36.0 CASTING LAYERS		13.60 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		PROJECT NAME	
37.0 CASTING LAYERS		13.65 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		Prototype Mosque	
38.0 CASTING LAYERS		13.70 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		CLIENT	
39.0 CASTING LAYERS		13.75 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		DEVELOPER	
40.0 CASTING LAYERS		13.80 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		ATOLL	
41.0 CASTING LAYERS		13.85 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		ISLAND	
42.0 CASTING LAYERS		13.90 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		LAGOON (GPS COORDINATES)	
43.0 CASTING LAYERS		13.95 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		ISSUED FOR	
44.0 CASTING LAYERS		14.00 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		DD_DETAIL DESIGN	
45.0 CASTING LAYERS		14.05 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		BUILDING NAME	
46.0 CASTING LAYERS		14.10 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		Mosque for 500 pax	
47.0 CASTING LAYERS		14.15 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		BUILDING/STRUCTURE NO.	
48.0 CASTING LAYERS		14.20 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		ISSUE DATE	
49.0 CASTING LAYERS		14.25 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		18/05/2024	
50.0 CASTING LAYERS		14.30 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		DRAWING TITLES	
51.0 CASTING LAYERS		14.35 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		GENERAL NOTES 01	
52.0 CASTING LAYERS		14.40 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		SHEET SIZE	
53.0 CASTING LAYERS		14.45 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		A2	
54.0 CASTING LAYERS		14.50 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		SCALE	
55.0 CASTING LAYERS		14.55 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		1 : 1	
56.0 CASTING LAYERS		14.60 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		SHEET NO.	
57.0 CASTING LAYERS		14.65 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		ST-00	
58.0 CASTING LAYERS		14.70 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.		The contents of these drawings remain as a property of Riyan Private Limited. Any use other than those expressly stated is a violation of this copyright	

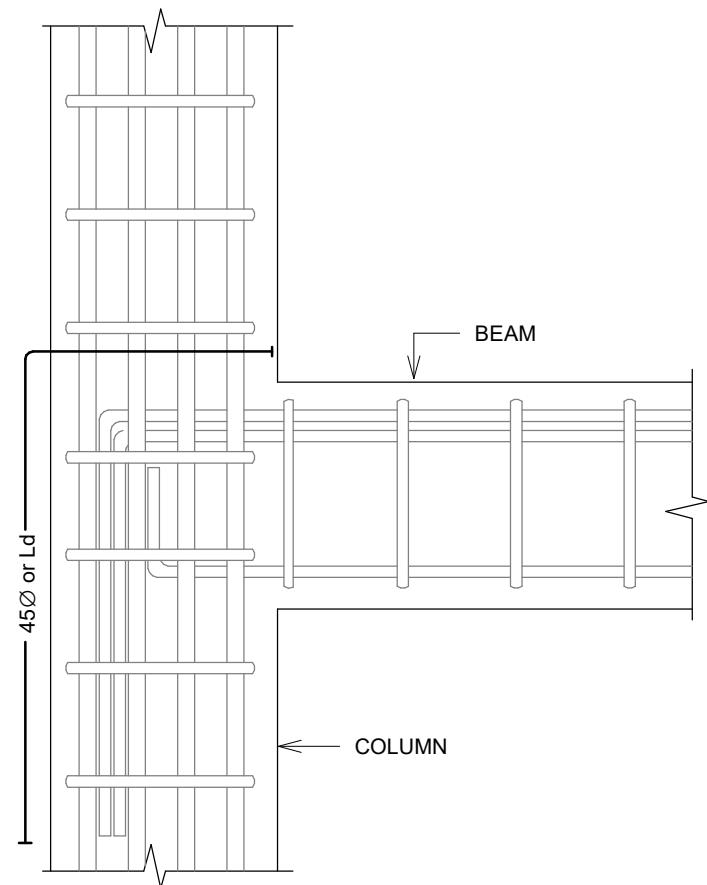


SIMPLIFIED DETAILING RULES FOR BEAMS.  
(BS8110-1)

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

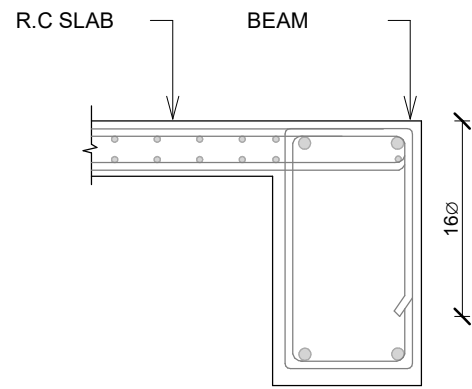
#### 18.0 SPACER BARS

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

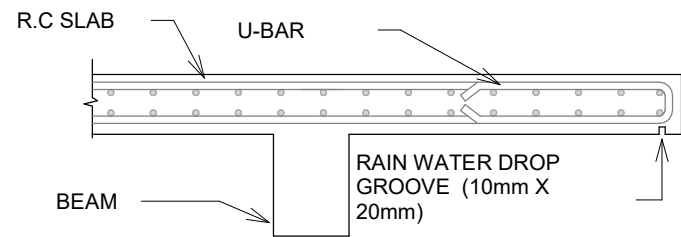


Ø = DIA OF REBAR

BEAM TO COLUMN CONNECTION

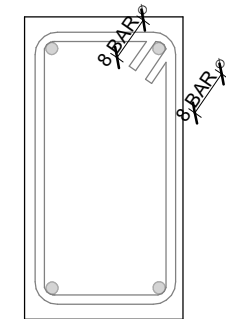


SLAB-BEAM ANCHORAGE DETAIL



Ø = DIA OF REBAR

CANTILEVERED SLAB EDGE DETAIL



Ø = DIA OF LINK

SHEAR LINKS ANCHORAGE DETAIL

#### GENERAL NOTES

- DO NOT SCALE FROM THIS DRAWING.
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.
- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.

#### REVISIONS

REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY

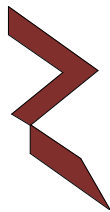
#### CONSULTANT

LEAD CONSULTANT

-

#### DESIGN CONSULTANT

#### REGISTERED LOCAL CONSULTANT



RIYAN PRIVATE LIMITED

www.riyan.com.mv

CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Ismail Rasheed

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B, C.D.P, N.K.P, M.E.I

INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY Akila Dilshan

CHECKED BY Zunabath Abdul Majid

APPROVED BY

PROJECT NAME

Prototype Mosque

CLIENT MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

18/05/2024

DRAWING TITLES

GENERAL NOTES 02

SHEET SIZE A2

SCALE 1 : 1

SHEET NO.

ST-01

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NOTES :

FOOTING & GROUND BEAMS	- 50mm
COLUMNS	- 40mm
WALLS	- 30mm
BEAMS	- 40mm
SLABS	- 30mm
ELEMENTS IN CONTACT WITH SOIL / WATER - 50 mm	

07. CHARACTERISTIC STRENGTH OF REINFORCEMENT STEEL SHOULD NOT BE LESS THAN 460 N/mm<sup>2</sup>.

08. COLUMNS, FOOTINGS AND BEAMS ARE SYMMETRICAL ABOUT GRID LINES OR CENTER LINES UNLESS OTHERWISE NOTED.

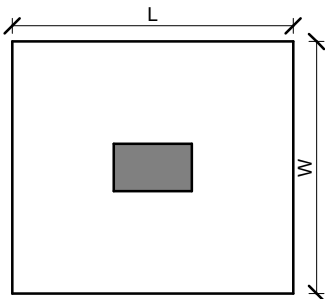
09. ALL SECONDARY CONCRETE FILLINGS SHALL BE DONE USING LIGHT WEIGHT CONCRETE.

10. REFER RELEVANT ARCHITECTURAL DRAWINGS FOR SETTING OUT DETAILS.

11. UNLESS OTHERWISE SPECIFIED ALL TOILETS/BALCONIES/TERRACE FLOORS SHALL BE SLOPED TO THE GULLIES AND SMOOTHLY FINISHED TO RECEIVE THE WATERPROOFING.

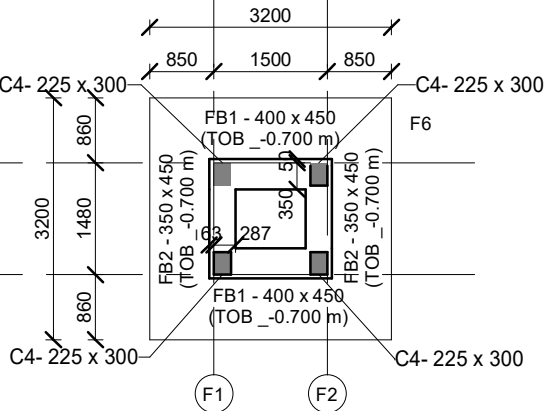
The diagram illustrates a typical footing detail section. It shows a cross-section of a foundation with a central vertical column. The foundation is embedded in the ground, with a footing of height  $H$  and length  $L$ . The ground level is marked as 'GROUND FLOOR LEVEL' with an elevation of 10. The foundation level is marked as 'FOUNDATION LEVEL' with an elevation of  $L_0$ . The footing is reinforced with steel bars, and a 'TIE BEAM' is shown at the base of the column. The foundation is surrounded by 'Well Compacted Ground' and 'Bituminous waterproofing'. A 'Polythene Sheet (1000 Gauge)' is shown at the base of the footing. The 'Ground Slab' is shown at the top of the column. The diagram also shows a 'Foundation Reinforcement' bar at the base of the footing.

TYPICAL FOOTING DETAIL SECTION



TYPICAL FOOTING DETAIL PLAN

TYPE	LENGTH (L)	WIDTH (W)	THICKNESS (H)	DEPTH (D)	REINFORCEMENT (D)
F1	1700	1700	300	1500	T12@150 (C/C B/W)
F2	1400	1400	300	1500	T12@150 (C/C B/W)
F3	1100	1100	300	1500	T12@150 (C/C B/W)
F4	950	950	300	1500	T10@150 (C/C B/W)
F5	750	750	300	1500	T10@150 (C/C B/W)
F6	320	320	350	1500	T12@150 (C/C B/W T/B)



GENERAL NOTES

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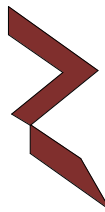
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REGISTERED LOCAL CONSULTANT



RIYAN PRIVATE LIMITED

[www.riyan.com.mv](http://www.riyan.com.mv)

CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	<b>Ismail Rasheed</b>
CIVIL ENGINEER	<b>Mohamed Muthalib Waleed</b>
MEP ENGINEER	<b>M.K.B, C.D.P, N.K.P, M.E.I</b>
INT. DESIGNER	<b>-</b>
INFRA. DESIGNER	<b>—</b>
DRAWN BY	<b>Akila Dilshan</b>
CHECKED BY	<b>Zunabath Abdul Majid</b>
APPROVED BY	

PROJECT NAME

### Prototype Mosque

CLIENT **MINISTRY OF ISLAMIC AFFAIRS**

DEVELOPER

ATOLL

ISLAND

---

ERSON (G)

DD\_DETAIL DESIGN

BUILDING NAME

**Mosque for 500 pax**

BUILDING/STRUCTURE NO.

**DRAWING TITLES**

**FOUNDATION LEVEL GA PLAN AND  
FOUNDATION DEATILS**

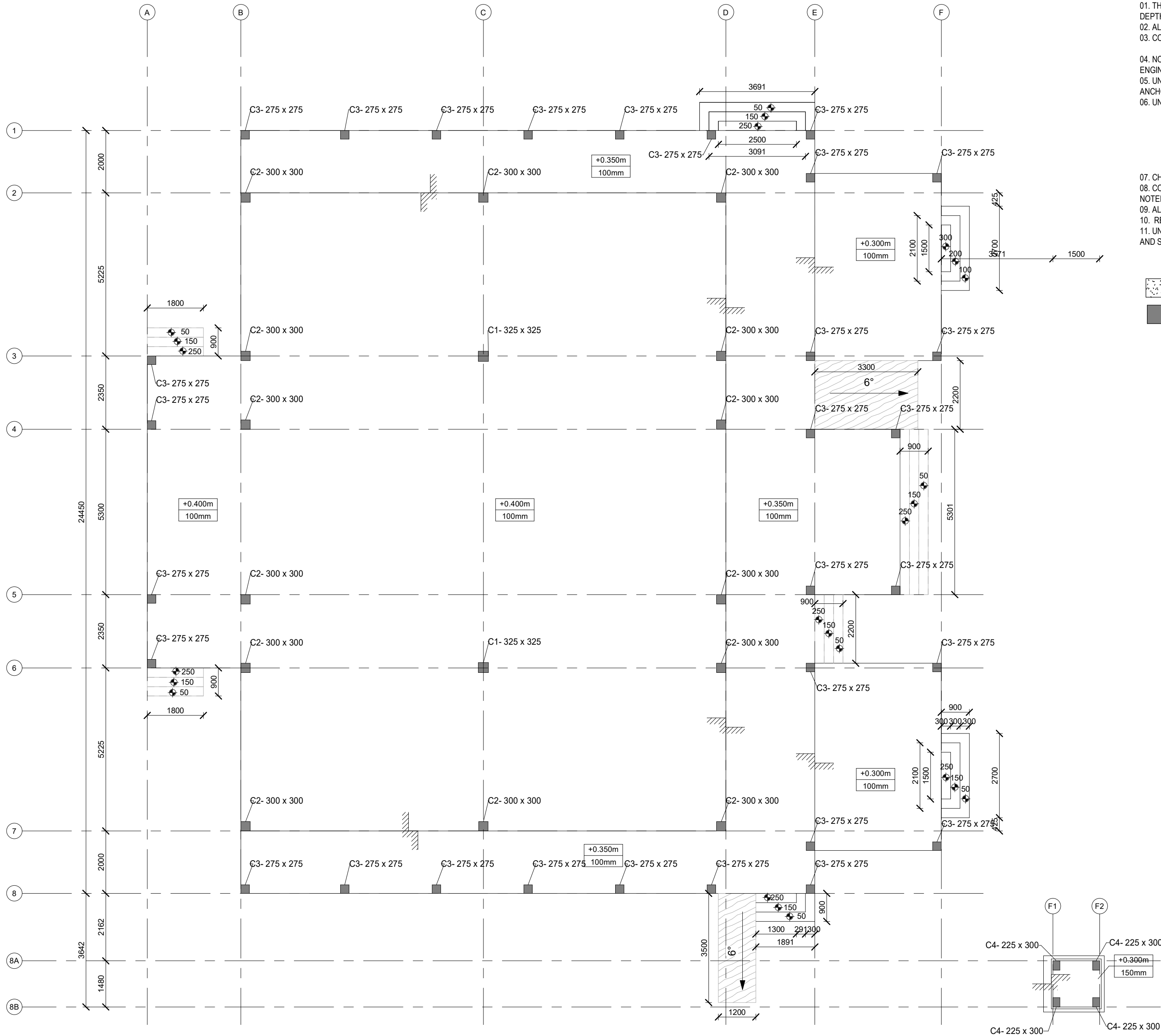
SHEET SIZE	A2	SCALE	As indicated
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SHEET NO.

ST-100

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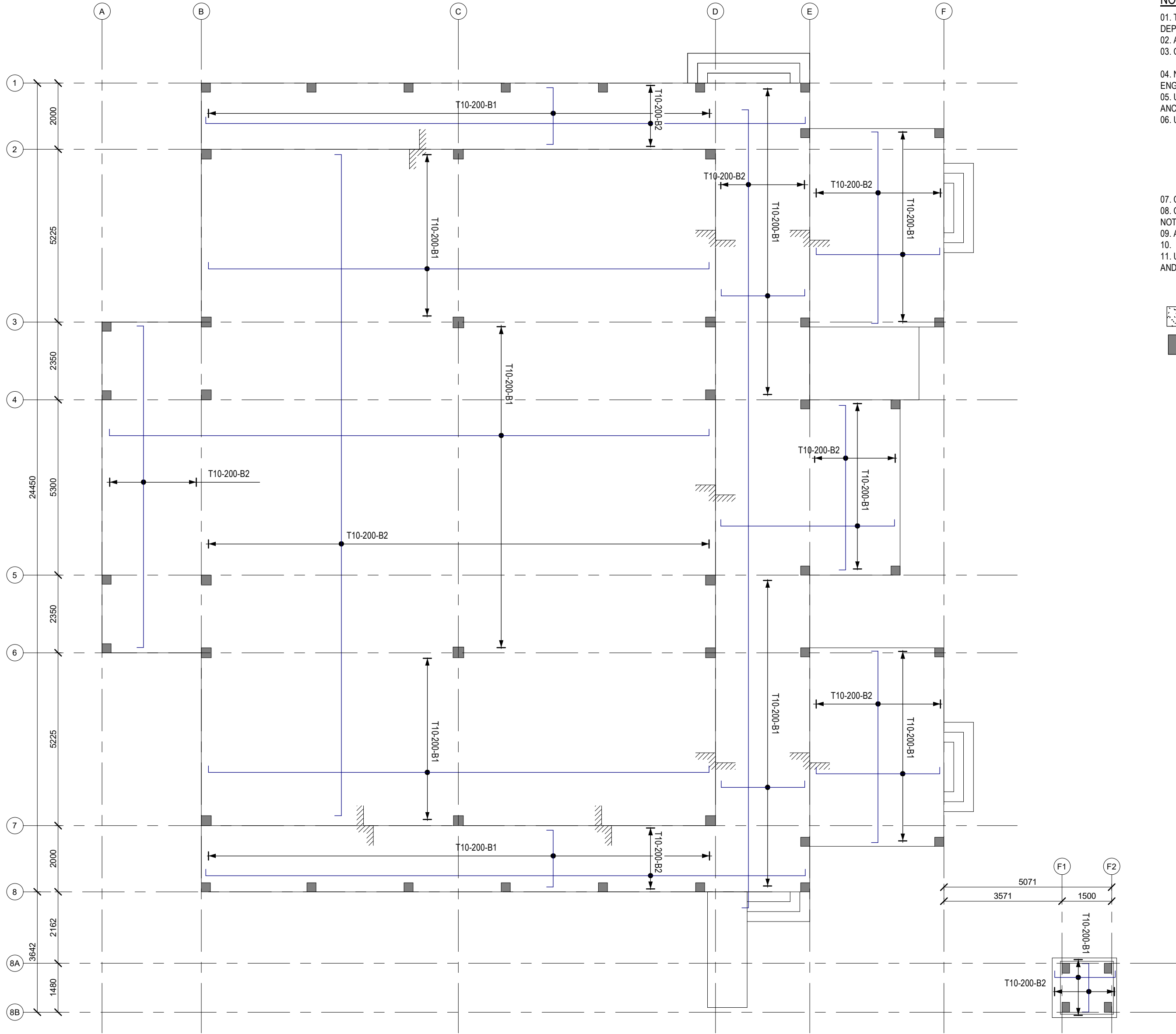
GROUND FLOOR PLAN  
1 : 100

NOTES :

01. THE BEAM LABEL GIVEN IN THE DRAWINGS TO BE READ AS FOLLOWS. eg:400x800 (T.O.B\_XX) ,WIDTH-400mm, DEPTH-800mm,TOP OF BEAM
02. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES.
03. CONCRETE GRADE FOR ALL ELEMENTS - C25  
FOR WATER RETAINING STRUCTURES - C30A
04. NO CONCRETE IS TO BE POURED UNTIL THE REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER.
05. UNLESS OTHERWISE INDICATED MINIMUM LAP IN REINFORCEMENT TO BE 50 x SMALLER BAR DIAMETER AND ANCHORAGE LENGTH TO BE 50 x SMALLER BAR DIAMETER.
06. UNLESS OTHERWISE INDICATED CLEAR COVER TO REINFORCEMENT TO BE AS FOLLOWS  
FOOTING & GROUND BEAMS - 50mm  
COLUMNS - 40mm  
WALLS - 30mm  
BEAMS - 40mm  
SLABS - 30mm  
ELEMENTS IN CONTACT WITH SOIL / WATER - 50 mm
07. CHARACTERISTIC STRENGTH OF REINFORCEMENT STEEL SHOULD NOT BE LESS THAN 460 N/mm².
08. COLUMNS, FOOTINGS AND BEAMS ARE SYMMETRICAL ABOUT GRID LINES ORCENTER LINES UNLESS OTHERWISE NOTED.
09. ALL SECONDARY CONCRETE FILLINGS SHALL BE DONE USING LIGHT WEIGHT CONCRETE.
10. REFER RELEVANT ARCHITECTURAL DRAWINGS FOR SETTING OUT DETAILS.
11. UNLESS OTHERWISE SPECIFIED ALL TOILETS/BALCONIES/TERRACE FLOORS SHALL BE SLOPED TO THE GULLIES AND SMOOTHLY FINISHED TO RECEIVED THE WATERPROOFING.

- CONCRETE ELEMENT TERMINATES AT THIS LEVEL
- CONCRETE ELEMENT CONTINUES PAST THIS LEVEL
- x.xxx m SALB ELEVATION  
x.xxx mm SALB THICKNESS

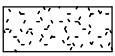
GENERAL NOTES				
<div>- DO NOT SCALE FROM THIS DRAWING.</div> <div>- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.</div> <div>- CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.</div> <div>- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.</div>				
REVISIONS				
REV.NO	REV.DATE	REV.DESCRPTION	REV.BY	CHK.BY
CONSULTANT				
LEAD CONSULTANT				
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DESIGN CONSULTAN				
REGISTERED LOCAL CONSULTANT				
<div><div>RIYAN PRIVATE LIMITED</div><div>www.riyan.com.mv</div></div>				
CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Mohamed Muthalib Waleed			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
CHECKED BY	Zunabath Abdul Majid			
APPROVED BY				
PROJECT NAME				
Prototype Mosque				
CLIENT				
MINISTRY OF ISLAMIC AFFAIRS				
DEVELOPER				
-				
ATOLL				
_____				
ISLAND				
_____				
LAGOON (GPS COORDINATES)				
-				
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 500 pax				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			18/05/2024	
DRAWING TITLES				
GROUND FLOOR LEVEL GA PLAN				
SHEET SIZE		A2	SCALE	
			As indicated	
SHEET NO.				
ST-101				
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GROUND FLOOR PLAN  
1 : 100

NOTES :

01. THE BEAM LABEL GIVEN IN THE DRAWINGS TO BE READ AS FOLLOWS. eg.400x800 (T.O.B\_XX) ,WIDTH-400mm, DEPTH-800mm,TOP OF BEAM  
02. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES.  
03. CONCRETE GRADE FOR ALL ELEMENTS - C25  
FOR WATER RETAINING STRUCTURES - C30A  
04. NO CONCRETE IS TO BE POURED UNTIL THE REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER.  
05. UNLESS OTHERWISE INDICATED MINIMUM LAP IN REINFORCEMENT TO BE 50 x SMALLER BAR DIAMETER AND ANCHORAGE LENGTH TO BE 50 x SMALLER BAR DIAMETER.  
06. UNLESS OTHERWISE INDICATED CLEAR COVER TO REINFORCEMENT TO BE AS FOLLOWS  
FOOTING & GROUND BEAMS - 50mm  
COLUMNS - 40mm  
WALLS - 30mm  
BEAMS - 40mm  
SLABS - 30mm  
ELEMENTS IN CONTACT WITH SOIL / WATER - 50 mm  
07. CHARACTERISTIC STRENGTH OF REINFORCEMENT STEEL SHOULD NOT BE LESS THAN 460 N/mm².  
08. COLUMNS, FOOTINGS AND BEAMS ARE SYMMETRICAL ABOUT GRID LINES ORCENTER LINES UNLESS OTHERWISE NOTED.  
09. ALL SECONDARY CONCRETE FILLINGS SHALL BE DONE USING LIGHT WEIGHT CONCRETE.  
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11. UNLESS OTHERWISE SPECIFIED ALL TOILETS/BALCONIES/TERRACE FLOORS SHALL BE SLOPED TO THE GULLIES AND SMOOTHLY FINISHED TO RECEIVED THE WATERPROOFING.



CONCRETE ELEMENT TERMINATES AT THIS LEVEL



SALB ELEVATION  
SALB THICKNESS



CONCRETE ELEMENT CONTINUES PAST THIS LEVEL

NOTE:-  
REINFORCEMENT : T10@200C/C B/W (SINGLE LAYER, AS SHOWN)  
REINFORCEMENT DISCONTINUOUS OVER VOIDS  
TOP COVER - 30mm  
BOTTOM COVER - 50mm

GENERAL NOTES

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- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.

REVISIONS

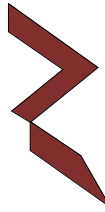
REV.NO.	REV DATE	REV DESCRIPTION	REV BY	CHK BY

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LEAD CONSULTANT

DESIGN CONSULTAN

REGISTERED LOCAL CONSULTANT



RIYAN PRIVATE LIMITED

www.riyan.com.mv

CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Ismail Rasheed

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B, C.D.P, N.K.P, M.E.I

INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY Akila Dilshan

CHECKED BY Zunabath Abdul Majid

APPROVED BY

PROJECT NAME

Prototype Mosque

CLIENT MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

18/05/2024

DRAWING TITLES

GROUND FLOOR R/F PLAN

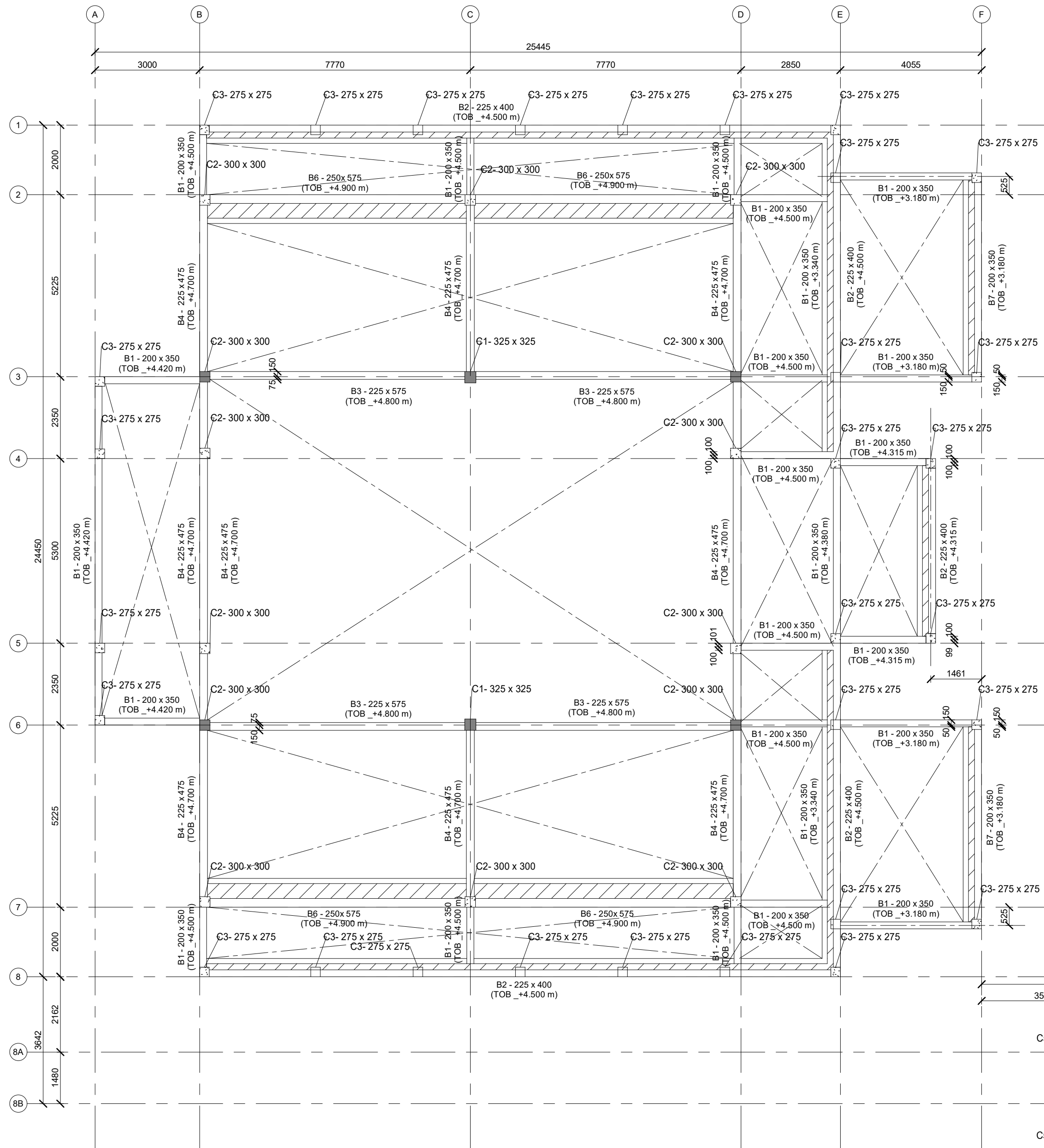
SHEET SIZE A2

SCALE As indicated

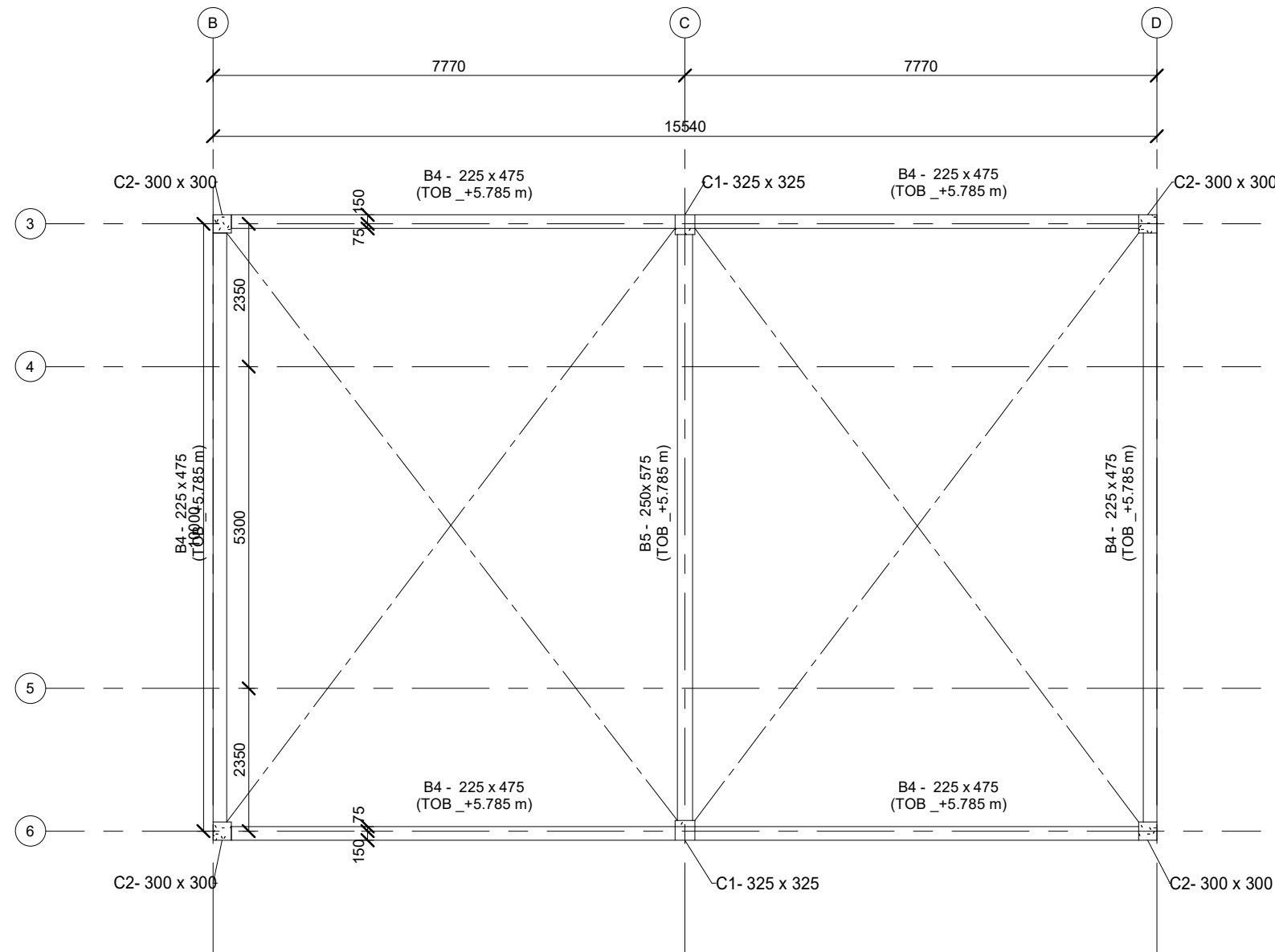
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ST-102

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1ST FLOOR PLAN  
1 : 100



1ST FLOOR PLAN TOP  
1 : 100

#### NOTES :

01. THE BEAM LABEL GIVEN IN THE DRAWINGS TO BE READ AS FOLLOWS. eg:400x800 (T.O.B\_XX) ,WIDTH-400mm, DEPTH-800mm,TOP OF BEAM
02. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES.
03. CONCRETE GRADE FOR ALL ELEMENTS - C25  
FOR WATER RETAINING STRUCTURES - C30A
04. NO CONCRETE IS TO BE POURED UNTIL THE REINFORCEMENT HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER.
05. UNLESS OTHERWISE INDICATED MINIMUM LAP IN REINFORCEMENT TO BE 50 x SMALLER BAR DIAMETER AND ANCHORAGE LENGTH TO BE 50 x SMALLER BAR DIAMETER.
06. UNLESS OTHERWISE INDICATED CLEAR COVER TO REINFORCEMENT TO BE AS FOLLOWS  
FOOTING & GROUND BEAMS - 50mm  
COLUMNS - 40mm  
WALLS - 30mm  
BEAMS - 40mm  
SLABS - 30mm  
ELEMENTS IN CONTACT WITH SOIL / WATER - 50 mm
07. CHARACTERISTIC STRENGTH OF REINFORCEMENT STEEL SHOULD NOT BE LESS THAN 460 N/mm².
08. COLUMNS, FOOTINGS AND BEAMS ARE SYMMETRICAL ABOUT GRID LINES OR CENTER LINES UNLESS OTHERWISE NOTED.
09. ALL SECONDARY CONCRETE FILLINGS SHALL BE DONE USING LIGHT WEIGHT CONCRETE.
10. REFER RELEVANT ARCHITECTURAL DRAWINGS FOR SETTING OUT DETAILS.
11. UNLESS OTHERWISE SPECIFIED ALL TOILETS/BALCONIES/TERRACE FLOORS SHALL BE SLOPED TO THE GULLIES AND SMOOTHLY FINISHED TO RECEIVED THE WATERPROOFING.



CONCRETE ELEMENT TERMINATES AT THIS LEVEL



CONCRETE ELEMENT CONTINUES PAST THIS LEVEL

x.xxx mm

SALB ELEVATION

x.xxx mm

SALB THICKNESS

#### GENERAL NOTES

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- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.

#### REVISIONS

REV.NO.	REV DATE	REV DESCRIPTION	REV BY	CHK BY

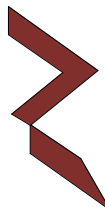
#### CONSULTANT

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#### DESIGN CONSULTANT

#### REGISTERED LOCAL CONSULTANT



RIYAN PRIVATE LIMITED

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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	Ismail Rasheed
CIVIL ENGINEER	Mohamed Muthalib Waleed
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Akila Dilshan
CHECKED BY	Zunabeth Abdul Majid
APPROVED BY	-

#### PROJECT NAME

Prototype Mosque

CLIENT MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER

-

ATOLL

---

ISLAND

---

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

#### BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

-

ISSUE DATE

18/05/2024

#### DRAWING TITLES

1ST FLOOR LEVEL GA

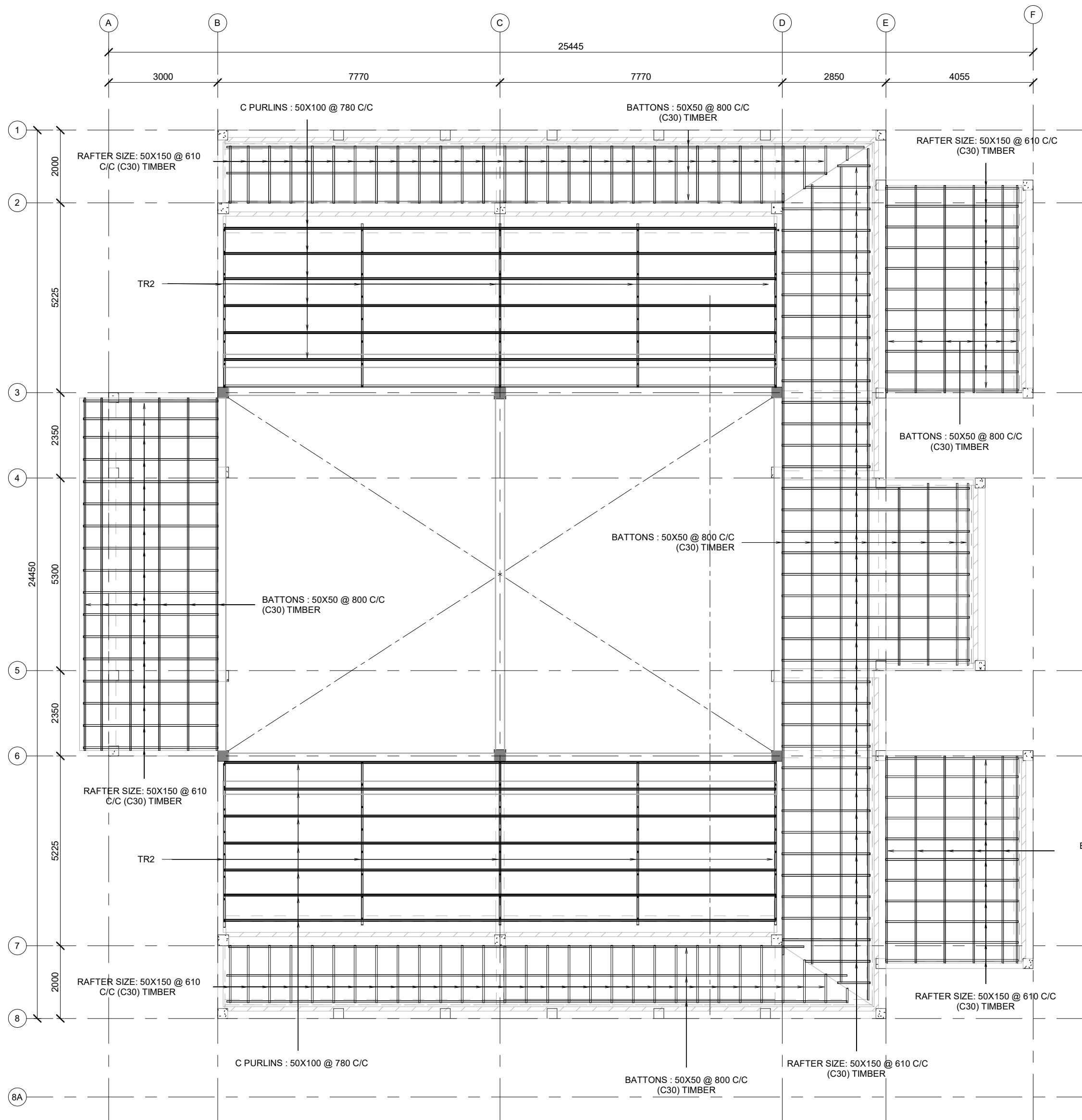
SHEET SIZE

A2

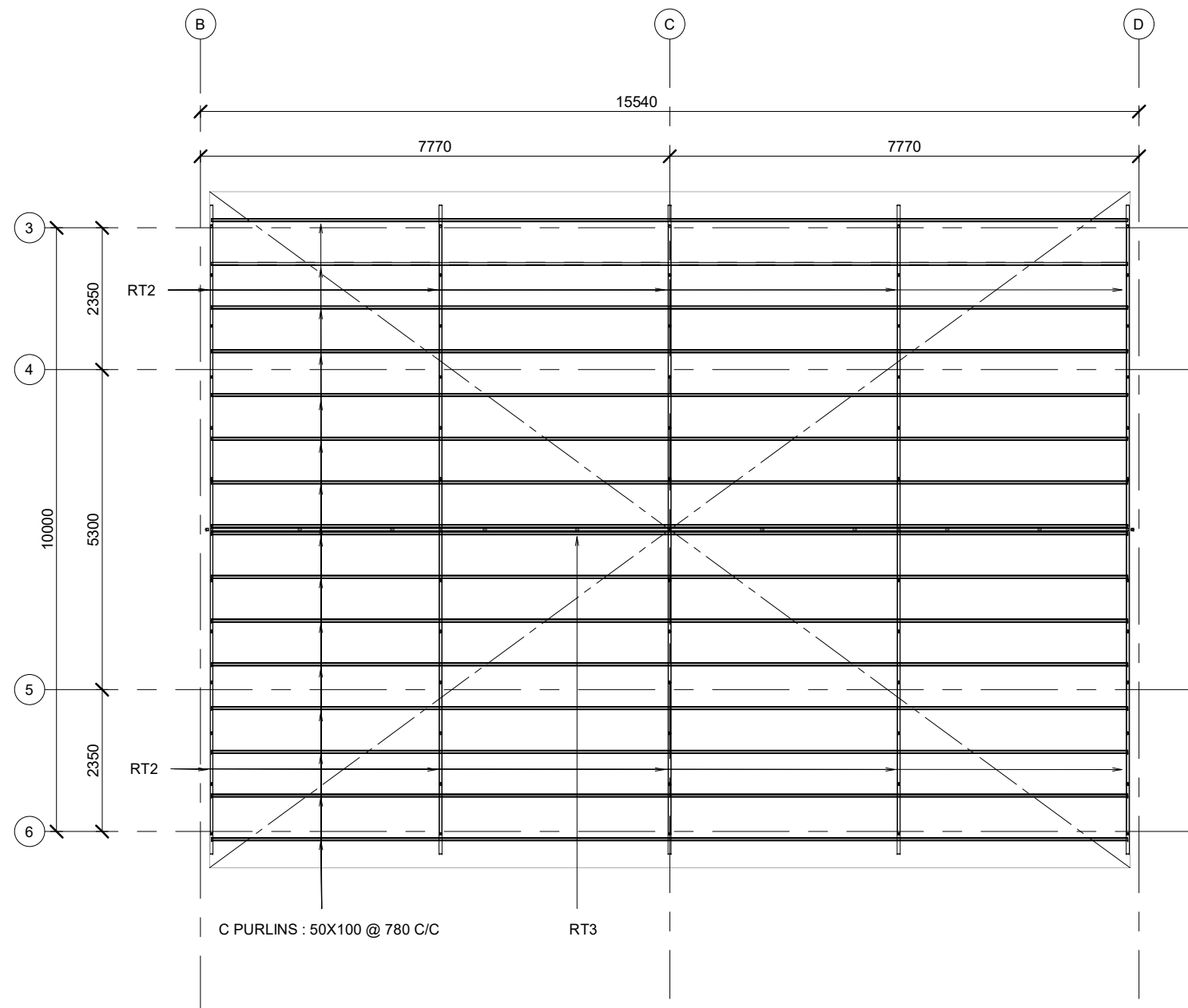
SHEET NO.

ST-103

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1 1ST FLOOR PLAN  
1 : 100



2 1ST FLOOR PLAN  
1 : 100

NOTE  
FOR ALL RIDGE, ROOF RAFTERS, HIP, BATTENS  
ARE TIMBER C30 GRADE

#### GENERAL NOTES

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#### REVISIONS

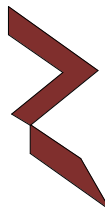
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#### CONSULTANT

LEAD CONSULTANT

DESIGN CONSULTANT

#### REGISTERED LOCAL CONSULTANT



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www.riyan.com.mv

CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Ismail Rasheed

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B, C.D.P, N.K.P, M.E.I

INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY Akila Dilshan

CHECKED BY Zunabath Abdul Majid

APPROVED BY

PROJECT NAME

Prototype Mosque

CLIENT MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

18/05/2024

DRAWING TITLES

ROOF PLAN VIEW

SHEET SIZE A2

SCALE As indicated

SHEET NO.

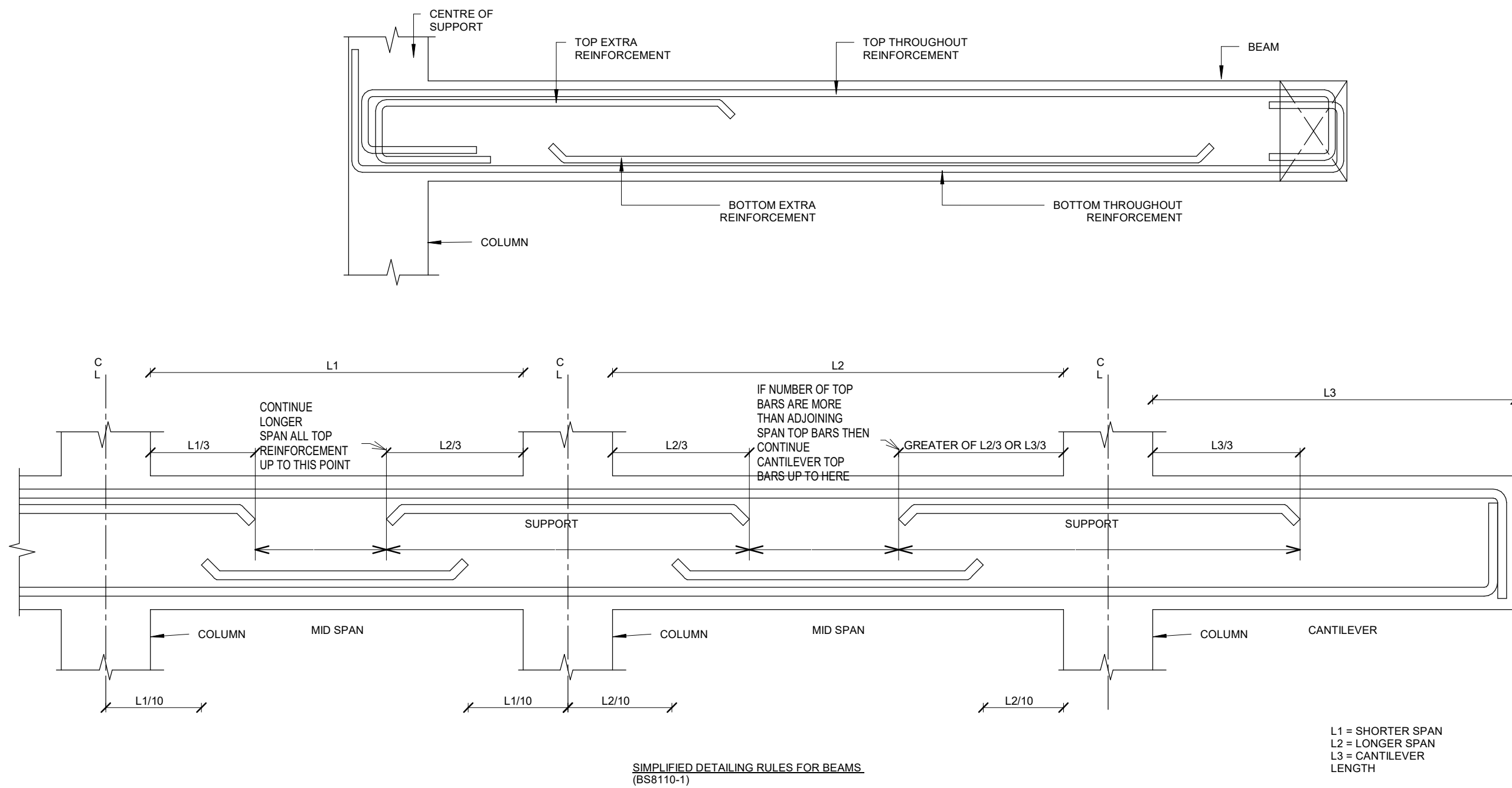
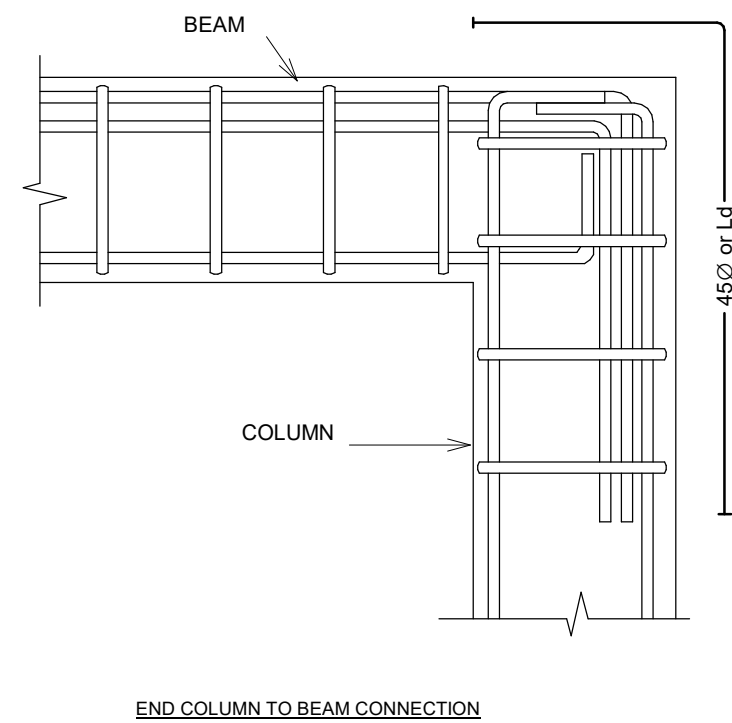
ST-104

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BEAM NUMBER	SUPPORT REINFORCEMENT	SPAN REINFORCEMENT
TB 1		
TB 2		
B1		
B3		
B4		
B5		
B2 / GUB2		
B7 / GUB7		
B6 / GUB6		
B6 / GUB6		

FB1		
FB2		
MB1		
MB2		



## SIMPLIFIED DETAILING RULES FOR BEAMS (BS8110-1)

<p>GENERAL NOTES</p> <ul style="list-style-type: none"><li>- DO NOT SCALE FROM THIS DRAWING.</li><li>- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.</li><li>- CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.</li><li>- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.</li></ul>				
REVISONS				
REV.NO.	REV.DATE	REV.DESCRPTION	REV.BY	CHK.BY
CONSULTANT				
LEAD CONSULTANT				
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 <p><b>RYAN PRIVATE LIMITED</b> <a href="http://www.ryan.com.mv">www.ryan.com.mv</a></p>				
CONSULTANT PROJECT NO. <b>R24002MIA</b>				
ARCHITECT	<b>Ismail Rasheed</b>			
CIVIL ENGINEER	<b>Mohamed Muthalib Waleed</b>			
MEP ENGINEER	<b>M.K.B, C.D.P, N.K.P, M.E.I</b>			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	<b>Akila Dilshan</b>			
CHECKED BY	<b>Zunabath Abdul Majid</b>			
APPROVED BY				
PROJECT NAME				
<b>Prototype Mosque</b>				
CLIENT <b>MINISTRY OF ISLAMIC AFFAIRS</b>				
DEVELOPER -				
ATOLL _____				
ISLAND _____				
LAGOON (GPS COORDINATES) -				
ISSUED FOR <b>DD_DETAIL DESIGN</b>				
BUILDING NAME				
<b>Mosque for 500 pax</b>				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			<b>18/05/2024</b>	
DRAWING TITLES				
<b>BEAMS DETAILS</b>				
SHEET SIZE		A2	SCALE <b>As indicated</b>	
SHEET NO.				
<b>ST-105</b>				
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TYPICAL COLUMN LINK DETAILS 01  
N.T.S

TYPICAL STAIRCASE  
1 : 20

## RAMP DETAILS

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1 : 25

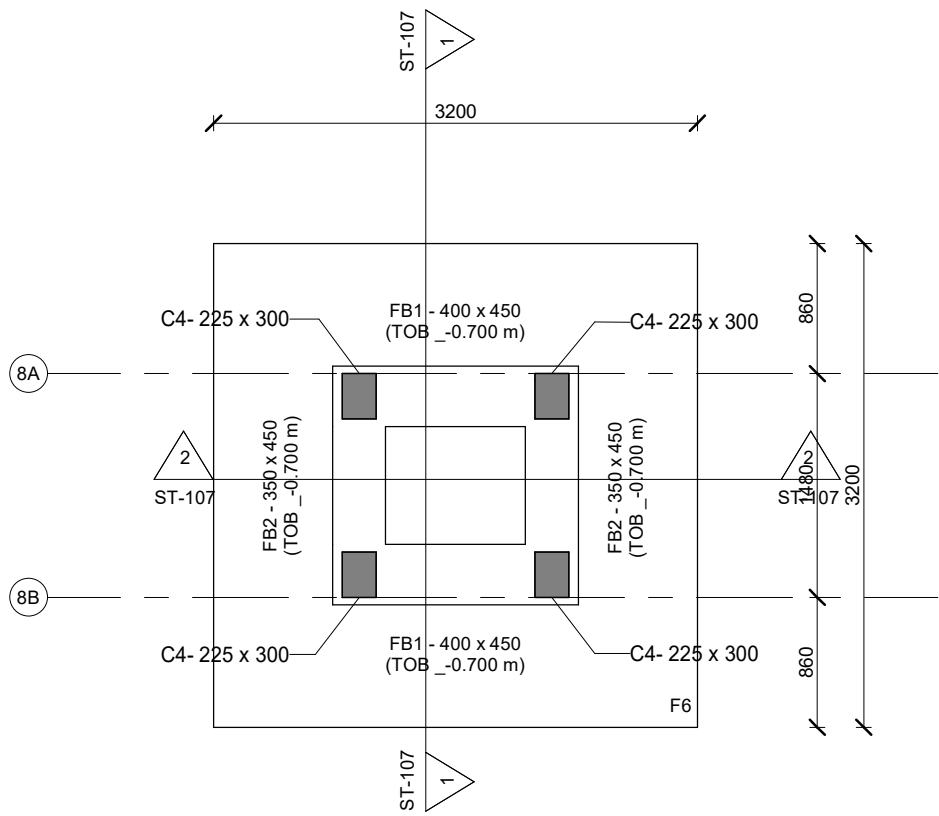
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1 : 20

TR1  
1 : 30

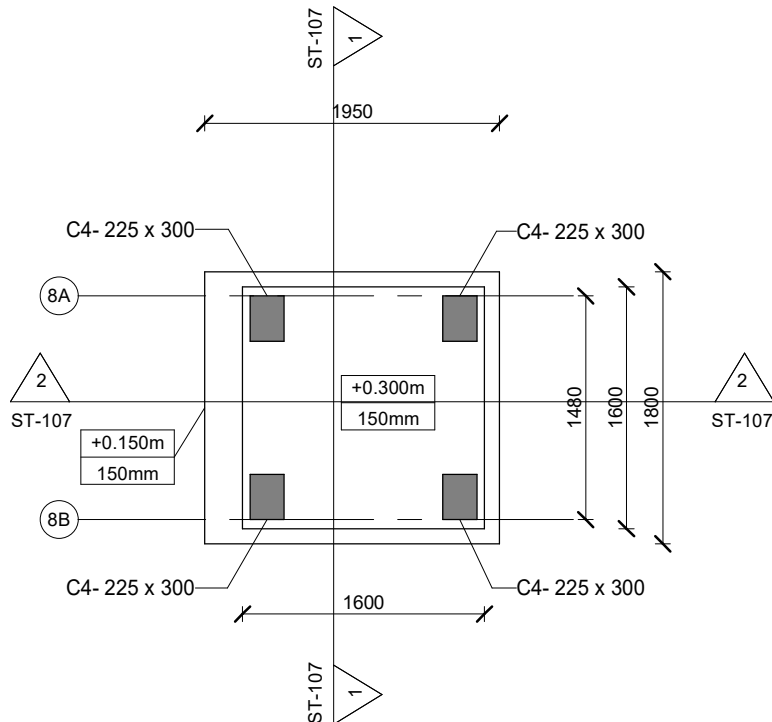
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TR2  
1 : 20

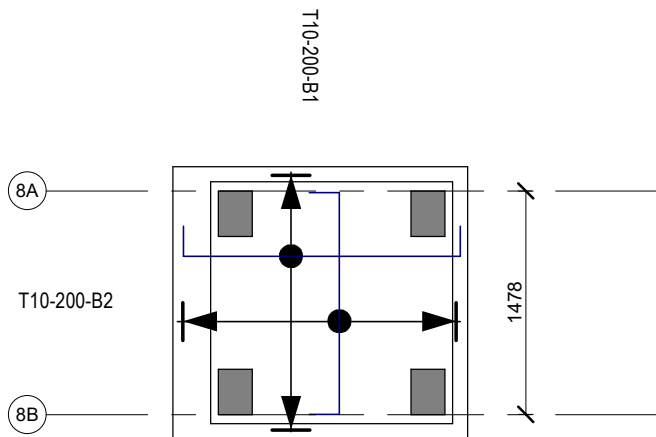
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REVIEWS					
REV.NO	REV.DATE	REV.DESCRPTION	REV.BY	CHK.BY	
CONSULTANT					
LEAD CONSULTANT					
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DESIGN CONSULTANT					
REGISTERED LOCAL CONSULTANT					
 <b>RIYON PRIVATE LIMITED</b> <a href="http://www.riyan.com.mv">www.riyan.com.mv</a>					
CONSULTANT PROJECT NO. <b>R24002MIA</b>					
ARCHITECT	<b>Ismail Rasheed</b>				
CIVIL ENGINEER	<b>Mohamed Muthalib Waleed</b>				
MEP ENGINEER	<b>M.K.B, C.D.P, N.K.P, M.E.I</b>				
INT. DESIGNER	-				
INFRA. DESIGNER	-				
DRAWN BY	<b>Akila Dilshan</b>				
CHECKED BY	<b>Zunabath Abdul Majid</b>				
APPROVED BY					
PROJECT NAME					
<b>Prototype Mosque</b>					
CLIENT	<b>MINISTRY OF ISLAMIC AFFAIRS</b>				
DEVELOPER	-				
ATOLL	_____				
ISLAND	_____				
LAGOON (GPS COORDINATES)	- _____				
ISSUED FOR					
<b>DD_DETAIL DESIGN</b>					
BUILDING NAME					
<b>Mosque for 500 pax</b>					
BUILDING/STRUCTURE NO.			ISSUE DATE		
			<b>18/05/2024</b>		
DRAWING TITLES					
<b>STAIRCASE AND COLUMNS DETAILS</b>					
SHEET SIZE		A2	SCALE		<b>As indicated</b>
SHEET NO.					
<b>ST-106</b>					
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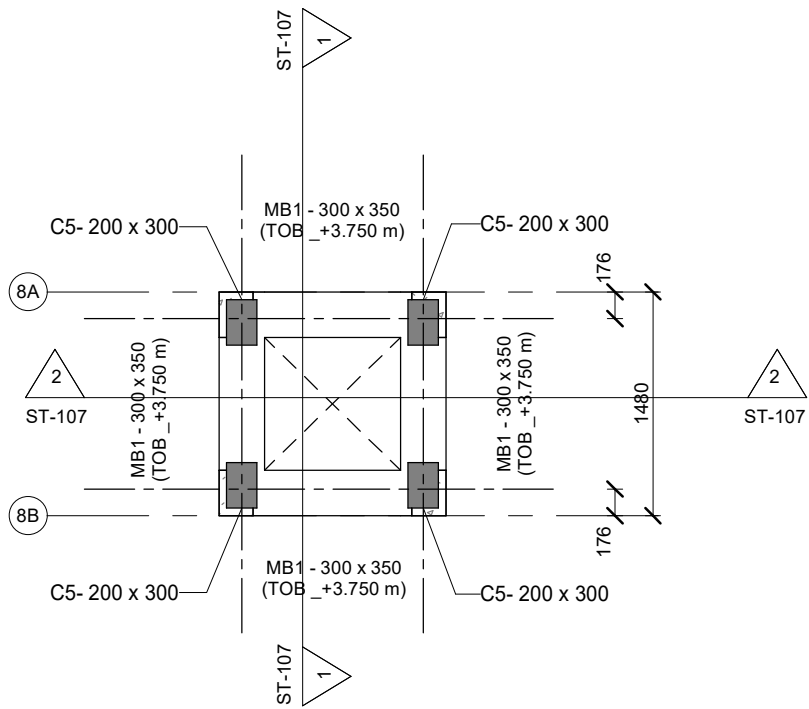
FOUNDATION PLAN  
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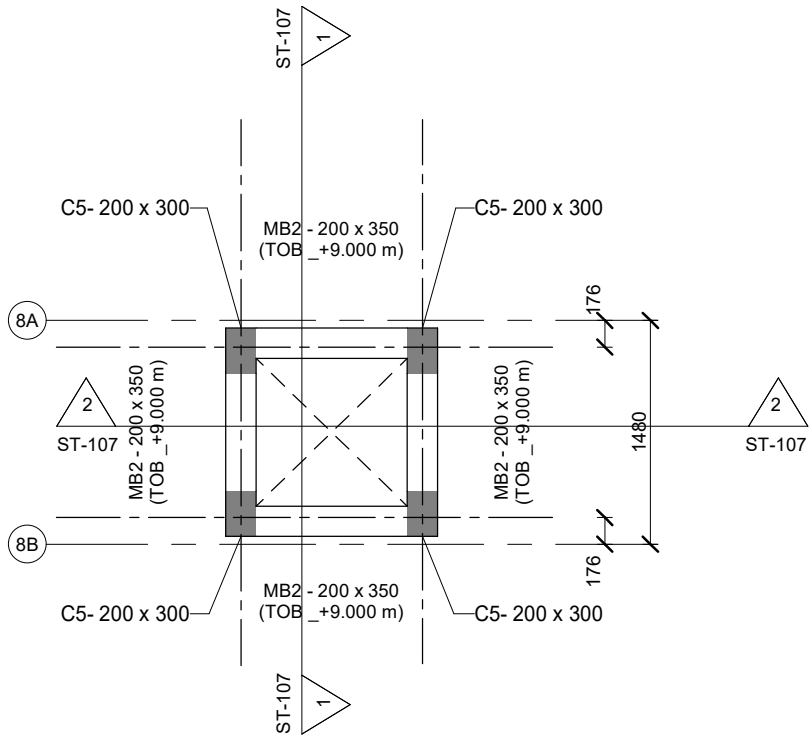
GROUND FLOOR PLAN  
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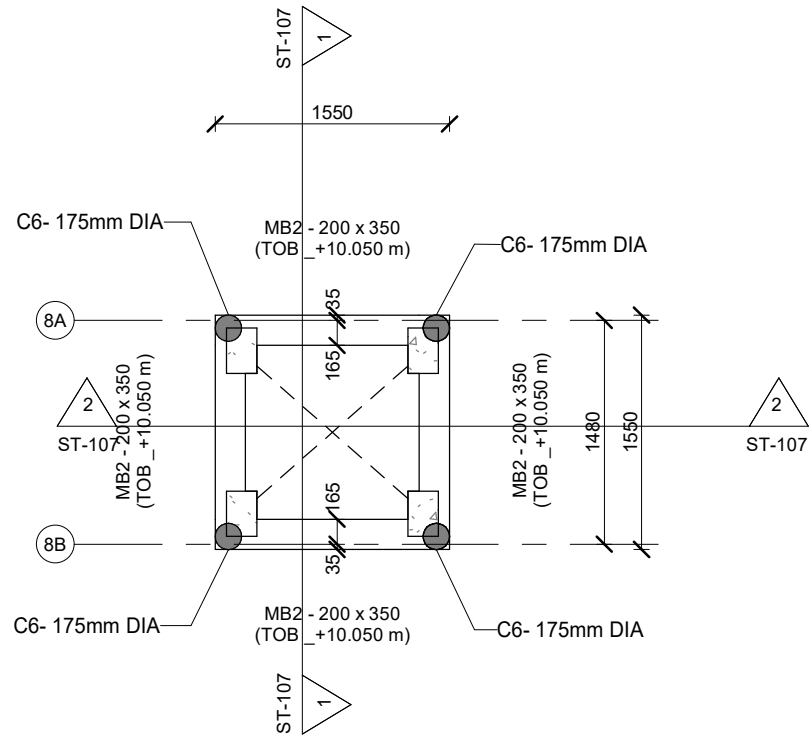
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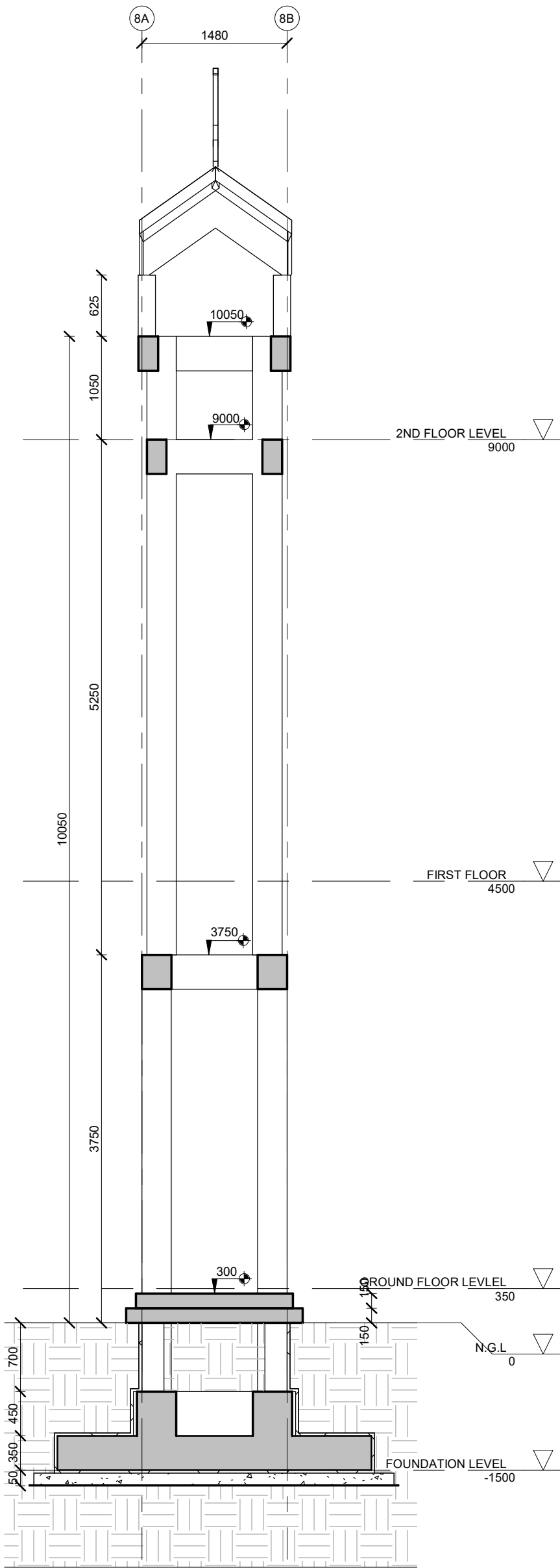
+3750 LEVEL FLOOR PLAN  
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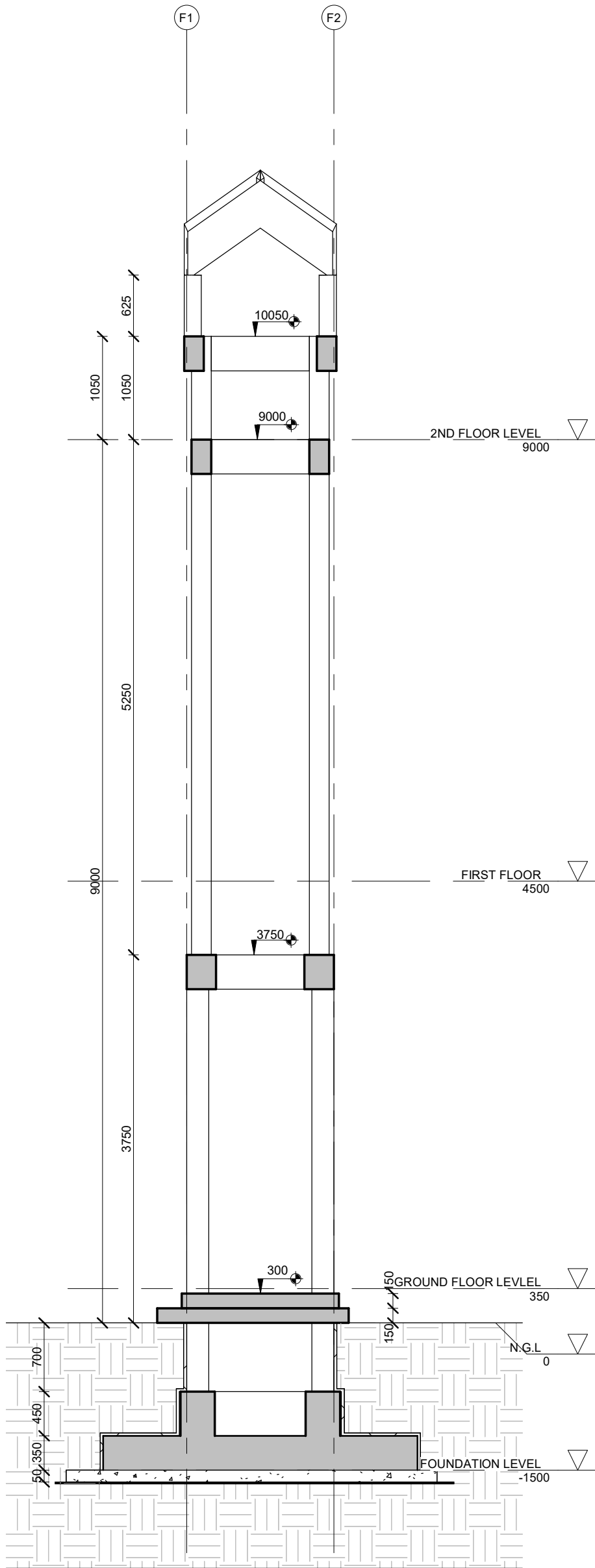
+9000 LEVEL FLOOR PLAN  
1 : 50



+10500 LEVEL FLOOR PLAN  
1 : 50



SECTION 1  
1 : 50



SECTION 02  
1 : 50

GENERAL NOTES

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REVISIONS

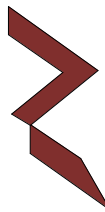
REV. NO.	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY

CONSULTANT

LEAD CONSULTANT

DESIGN CONSULTANT

REGISTERED LOCAL CONSULTANT



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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Ismail Rasheed

CIVIL ENGINEER Mohamed Muthalib Waleed

MEP ENGINEER M.K.B, C.D.P, N.K.P, M.E.I

INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY Akila Dilshan

CHECKED BY Zunabath Abdul Majid

APPROVED BY

PROJECT NAME

Prototype Mosque

CLIENT MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

18/05/2024

DRAWING TITLES

MINARET DETAILS

SHEET SIZE

A2

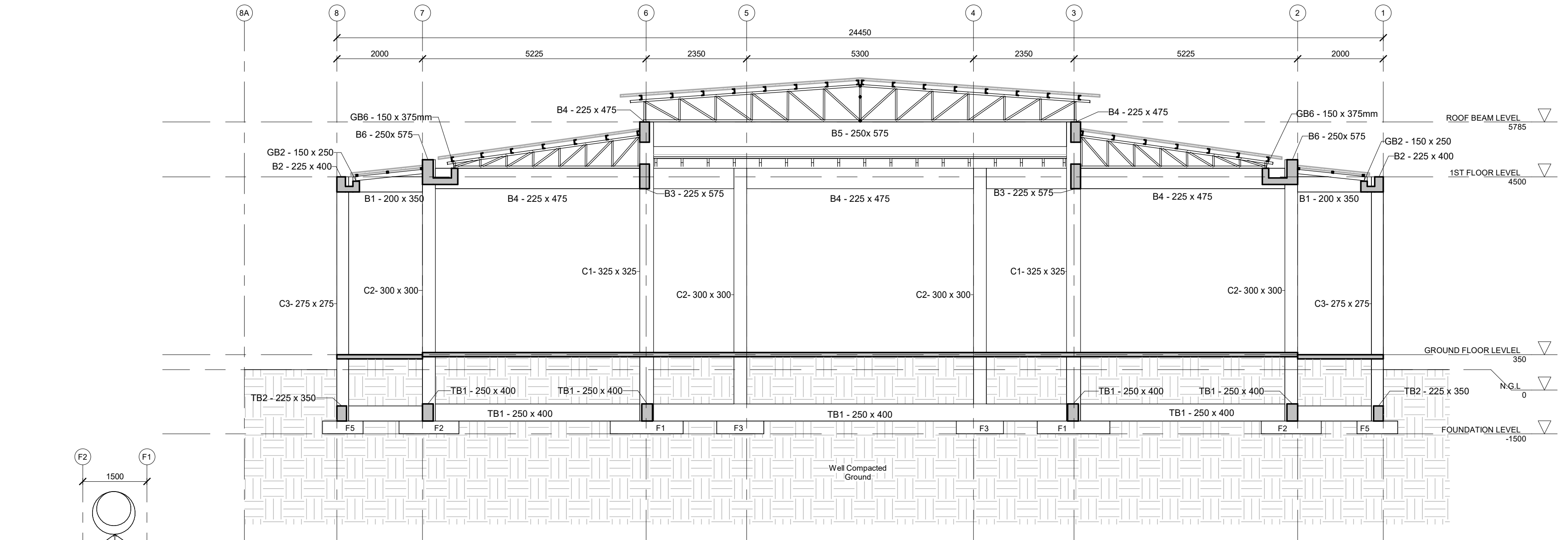
SCALE

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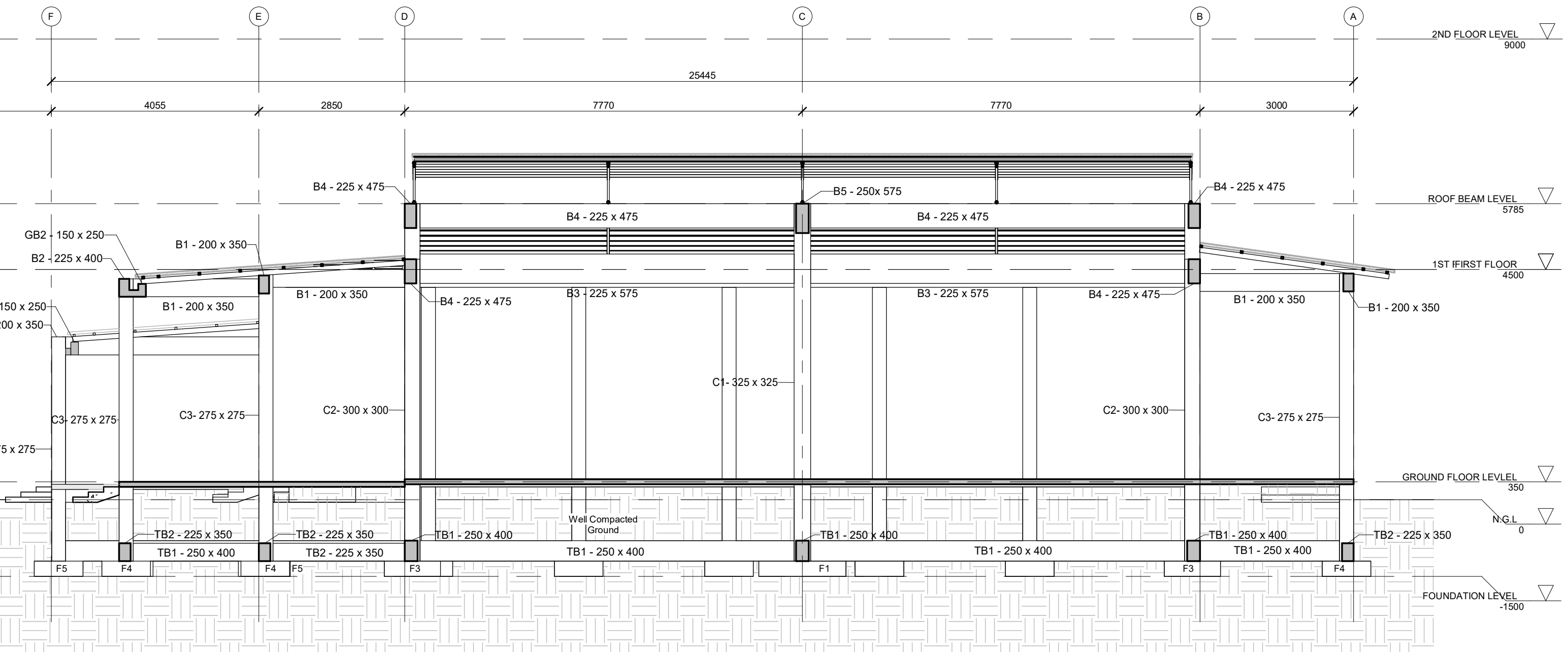
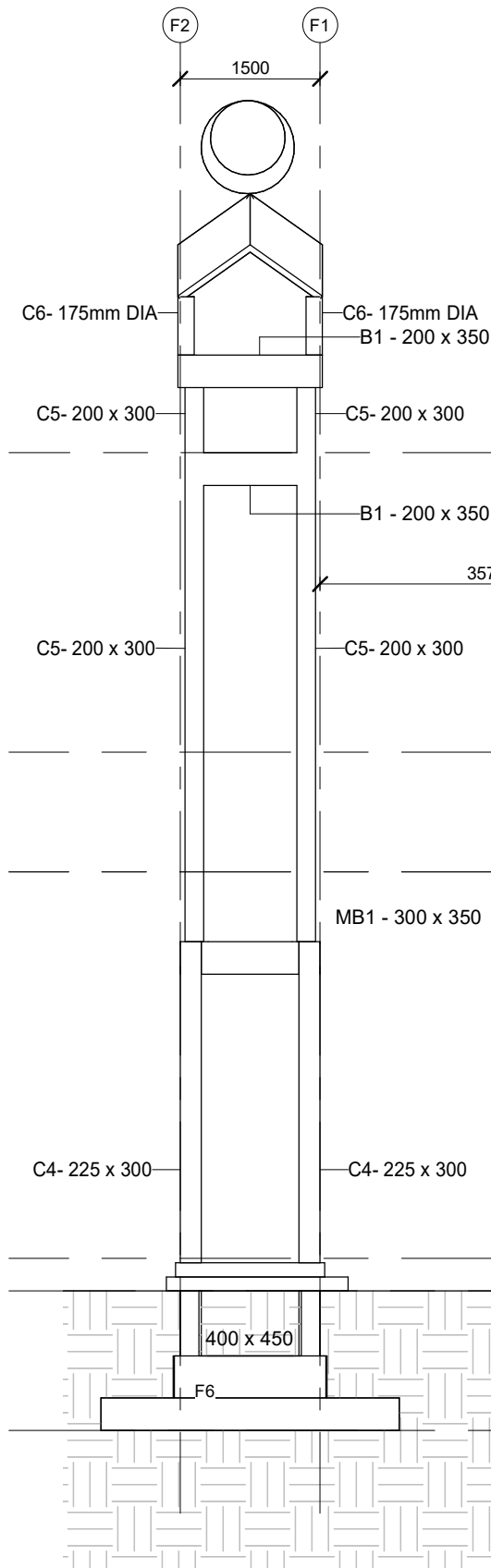
SHEET NO.

ST-107

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SECTION 01  
1 : 75



SECTION 02  
1 : 75

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REVISIONS

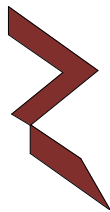
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CONSULTANT

LEAD CONSULTANT

DESIGN CONSULTANT

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ARCHITECT	Ismail Rasheed
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MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Akila Dilshan
CHECKED BY	Zunabeth Abdul Majid
APPROVED BY	

PROJECT NAME

Prototype Mosque

CLIENT MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD\_DETAIL DESIGN

BUILDING NAME

Mosque for 500 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

18/05/2024

DRAWING TITLES

SECTION

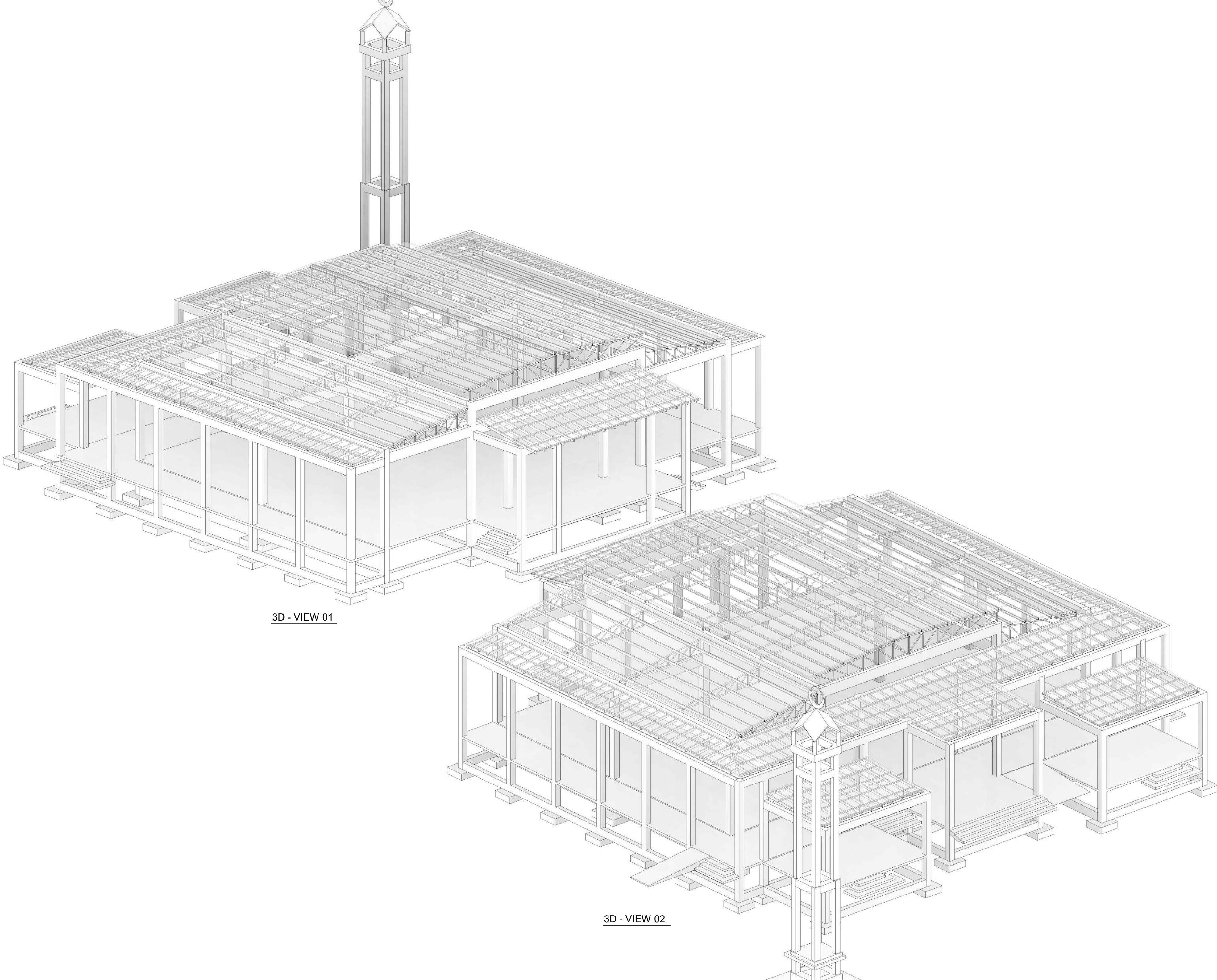
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SHEET NO.

ST-108

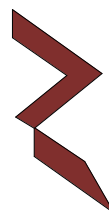
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3D - VIEW 01

3D - VIEW 02

REVISIONS				
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CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Mohamed Muthalib Waleed			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Akila Dilshan			
CHECKED BY	Zunabath Abdul Majid			
APPROVED BY				
PROJECT NAME				
Prototype Mosque				
CLIENT				
MINISTRY OF ISLAMIC AFFAIRS				
DEVELOPER				
-				
ATOLL				
---				
ISLAND				
---				
LAGOON (GPS COORDINATES)				
-				
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 500 pax				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			18/05/2024	
DRAWING TITLES				
3D VIEWS				
SHEET SIZE			A2	
SHEET NO.			SCALE	
ST-109				
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# PROTOTYPE MOSQUE - 500

CLIENT: MINISTRY OF ISLAMIC AFFAIRS

## SERVICES DRAWINGS

















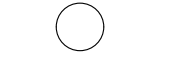













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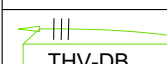
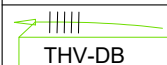

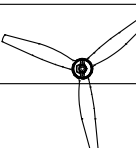

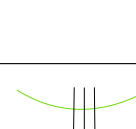
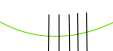




t: +9603315049 f: +9603310776  
e: info@riyan.com.mv  
w: www.riyan.com.mv  
3rd floor, H. Azum, Ameenemagu, Male'

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
LEGEND (LIGHTING)

SYMBOL	CODE	DESCRIPTION
	LF01	6W, 230V , 3000K, SPOT LIGHT
	LF01.1	6W, 230V , 3000K, SPOT LIGHT W/ 2hr Bat Pack
	LF02	15W, 230V, 3000K FLOOR MOUNTED Dim DECORATIVE LIGHT
	LF03	6W, 230V, 3000K BEDSIDE TABLE LAMP
	LF04	6W, 230V, 3000K TABLE LAMP
	LF05	17W, 230V, 4000K, WALL LIGHT,IP55
	LF06	6W, 230V , 3000K, GARDEN SPIKE LIGHT,IP65
	LF07	7W, 24V, 3000K POOL LIGHT,IP67
	LF07.1	3W, 24V, 3000K POOL STAIR LIGHT, IP67
	LF08	24V, 3000K LED STRIP LIGHT
	LF09	12W, 230V, 3000K, CEILING MOUNTED DECORATIVE LIGHT
	LF10	5W/m, 230V, 3000K, LED STRIP LIGHT
	LF11	6W, 230V, 3000K, BOLLARD LIGHT
	LF12	6W, 230V, 3000K, FIOOR MOUNTED DECORATIVE LIGHT
	LF13	9W, 230V, 3000K, SURFACE MOUNTED DOWNLIGHT TYPE-1
	LF13.1	9W, 230V, 3000K, SURFACE MOUNTED DOWNLIGHT TYPE-1 W/ 2HRS BAT. PACK
	LF14	28W, 230V, 4000K, SURFACE MOUNTED DOWNLIGHT TYPE-2
	LF15	15W, 230V, 3000K, PENDANT LIGHT, CEILING SURFACE MOUNTED
	LF16	28W, 230V, 4000K, SURFACE MOUNTED LINEAR LIGHT
	EM	12W, 230V, 4000K, WALL MOUNTED MOUSE TYPE EMERGENCY LIGHT, W/ 2 HR BAT. PACK
	LF17	150W, 230V, 4000K, HID FLOOD LIGHT, IP65
	LF18	50W, 230V, 4000K, HID DOWNLIGHT
	LF19	100W, 230V, 4000K, FLOOD LIGHT
	LF19a	50W, 230V, 4000K, FLOOD LIGHT
	LF20	17W, 230V, 3000K, RECESSED DOWNLIGHT
	LF21	20W, 230V, 3000K, SUSPENDED DOWNLIGHT
	LF22	100W, 230V, 4000K, PENDANT LIGHT-1
	LF23	100W, 230V, 4000K, PENDANT LIGHT-2
	LF24	6W, 230V, 3000K, DECK LIGHT IP65
	LF24.a	9W, 230V, 3000K, TERRACE WALL LIGHT IP65









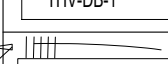

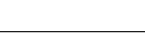
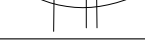



LEGEND (LIGHTING)

SYMBOL	CODE	DESCRIPTION
		9W, 230V, 3000K, WALL LIGHT,IP55
	LF25	18W, 230V, 3000K, CEILING MOUNTED RECESSED LIGHT
	LF26	70W, 230V, 3000K, POLE MOUNTED OUTDOOR LIGHT
	LF27	500W, 230V, 3000K, CHANDELIER
	LF11a	6W, 230V, 3000K, BOLLARD LIGHT TYPE A
		CIRCUIT HOMERUN, SINGLE PHASE, 3 WIRE
	LF11.a	CIRCUIT HOMERUN, THREE PHASE, 5 WIRE 6W, 230V, 3000K, BOLLARD LIGHT -TYPE A
	DB	DISTRIBUTION BOARD
		CEILING MOUNTED FAN
	FS	FAN SWITCH LABEL
	2wA	TWO WAY SWITCH LABEL
	CDim	DIMMABLE LIGHTING SWITCH LABEL
	T/S	TIMER SWITCH LABEL
		SINGLE PHASE, 3 WIRE
		THREE PHASE, 5 WIRE
	A OR 1G	1 GANG 1 WAY SWITCH
	AB OR 2G	2 GANG 1 WAY SWITCH
	ABC OR 3G	3 GANG 1 WAY SWITCH

LEGEND (PA)

SYMBOL	CODE	DESCRIPTION
	MS	MINARET SPEAKER
	PS	PUBLIC SPEAKER
	PM	PAGING MIC
	AMP	AMPLIFIER

LEGEND (POWER)

SYMBOL	CODE	DESCRIPTION
	SSO	13A, SWITCH TYPE, SINGLE POWER OUTLET
	TSO	13A, SWITCH TYPE, DOUBLE POWER OUTLET
	AC	15A, SWITCH TYPE, SINGLE POWER OUTLET
	USB	2 NO. USB CHARGER PORT
	3P,ISO	3 PHASE ISOLATOR
	1P,ISO	1 PHASE ISOLATOR
	J	JUNCTION BOX
	THV-DB-1	CIRCUIT HOMERUN, SINGLE PHASE, 3 WIRE
	THV-DB-123	CIRCUIT HOMERUN, THREE PHASE, 5 WIRE
		DISTRIBUTION BOARD
		SINGLE PHASE, 3 WIRE
		THREE PHASE, 5 WIRE
	GPP	GENERAL POWER POINT
	SHAVR	SHAVR SOCKET
	AC	AC SOCKET
	H/L	HIGH LEVEL
	FFL	FLOOR FINISH LINE
	WP	WEATHER PROOF

GENERAL NOTES :

- ALL LIGHTS & POWER POINTS SHALL BE CONNECTED TO THEIR RESPECTIVE CIRCUIT HOME RUN AS PER THE LIGHTING & POWER LAYOUT.
- CONTRACTOR TO PREPARE SHOP DRAWINGS AND GET APPROVAL FROM CONSULTANT/PROJECT MANAGER FOR ALL LIGHTS, SWITCHES, DB, PANEL BOARD, EAC, REQUIRED ISOLATORS, ACV SERVICES AND OTHER RELEVANT LIGHTING AND POWER POINT LOCATIONS INCLUDING CONDUIT AND WIRING AND TO BE VERIFIED AT SITE PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO MODIFY, CHANGE, REROUTE, RELOCATE THE LIGHTING AND POWER POINTS AS PER THE SITE CONDITIONS AND SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ELECTRICAL POWER REQUIREMENTS AND POWER POINTS FOR MECHANICAL VENTILATION DEVICES TO ELECTRICAL CONTRACTOR.
- OT, RADIOLOGY, ECG/EEG AND SCAN ROOMS' POWER CONSUMPTION IS IN GENERAL. CONTRACTOR SHALL BE RESPONSIBLE MANUFACTURERS REGARDING EQUIPMENT POWER CONSUMPTION. TO COORDINATE WITH RELEVANT EQUIPMENT
- ALL ELECTRICAL COMPONENT CONNECTED TO THEIR RESPECTIVE DB.
- POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED OUTDOOR.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ACMV CONTRACTOR FOR POWER REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL OTHER SERVICES.
- CONTRACTOR SHALL BE RESPONSIBLE TO MODIFY CHANGE, REROUTE RELOCATE AS PER SITE CONDITION AND SUBMIT SHOP DRAWINGS FOR APPROVAL.
- CONTRACTOR TO PROVIDE DETAIL SHOP DRAWINGS PRIOR TO INITIATE WORKS ON SITE.

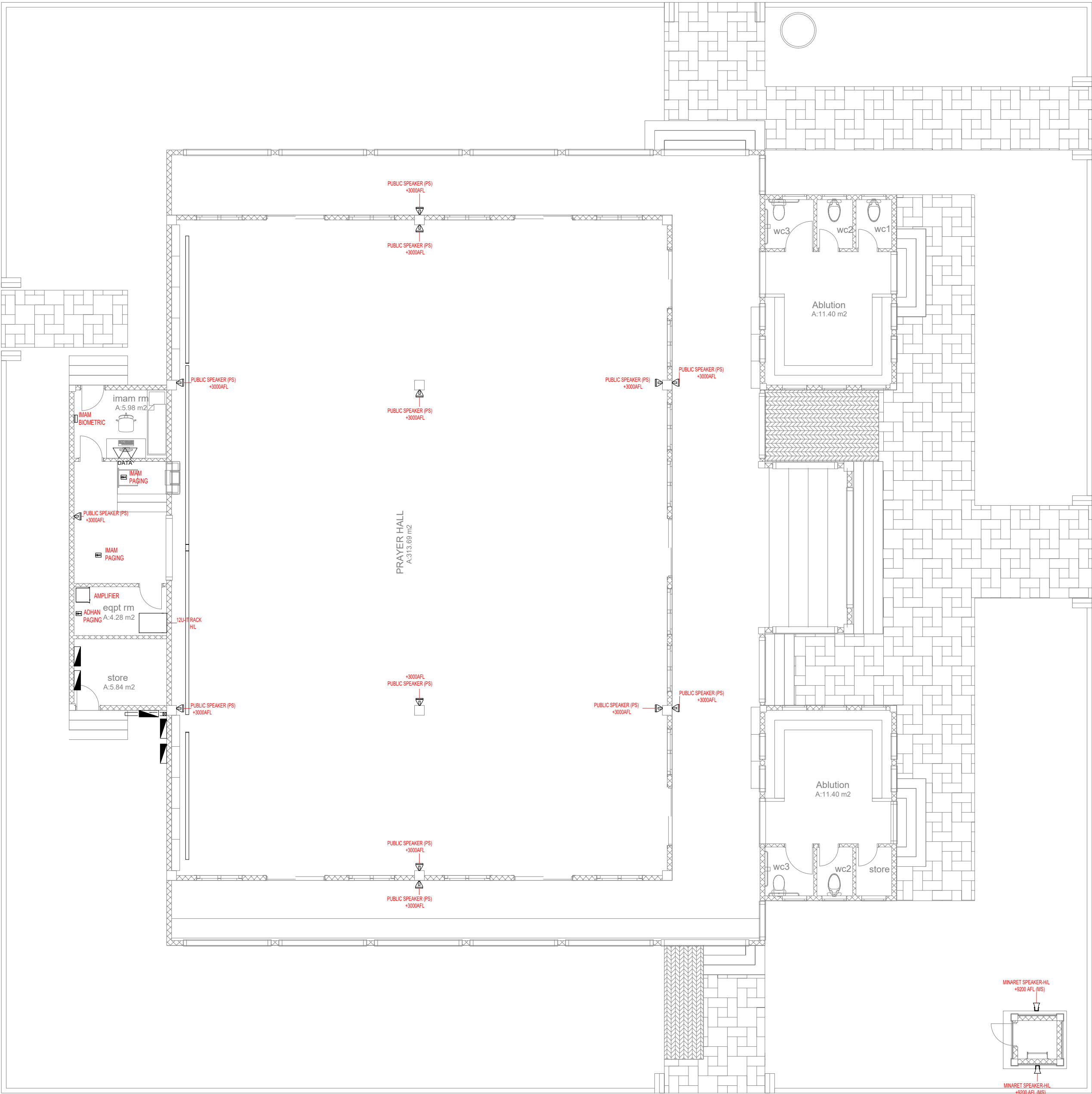
ELECTRICAL NOTES AND LEGENDS

GENERAL NOTES				
<div>- DO NOT SCALE FROM THIS DRAWING.</div> <div>- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.</div> <div>- CONTRACTOR MUST REPORT ANY DISCREPANCIES PRIOR TO EXECUTION OF ANY WORKS.</div> <div>- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.</div>				
REVISIONS				
REV. NO	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY
CONSULTANT				
LEAD CONSULTANT				
RIYAN PVT LTD				
DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
<div></div> <div><b>RIYAN PRIVATE LIMITED</b></div> <div>www.riyan.com.mv</div>				
CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	ISMAIL RASHEED			
CIVIL ENGINEER	ZAINAL A. ALI RASHEED			
MEP ENGINEER	CHESTER DIZA PERALTA			
INT. DESIGNER				
INFRA. DESIGNER				
DRAWN BY	CHESTER DIZA PERALTA			
CHECKED BY	MOHAMED EVAN IBRAHIM			
APPROVED BY				
PROJECT NAME				
PROTOTYPE MOSQUES				
CLIENT MINISTRY OF ISLAMIC AFFAIRS				
DEVELOPER				
ATOLL				
ISLAND				
LAGOON (GPS COORDINATES)				
ISSUED FOR				
DD - DETAIL DESIGN				
BUILDING NAME				
MOSQUE FOR 500 PAX				
BUILDING/STRUCTURE NO.			ISSUE DATE	
			29 MAY 2024	
DRAWING TITLES				
ELECTRICAL NOTES AND LEGENDS				
SHEET SIZE		A2	SCALE NTS	
SHEET NO.				
ELE - 01				
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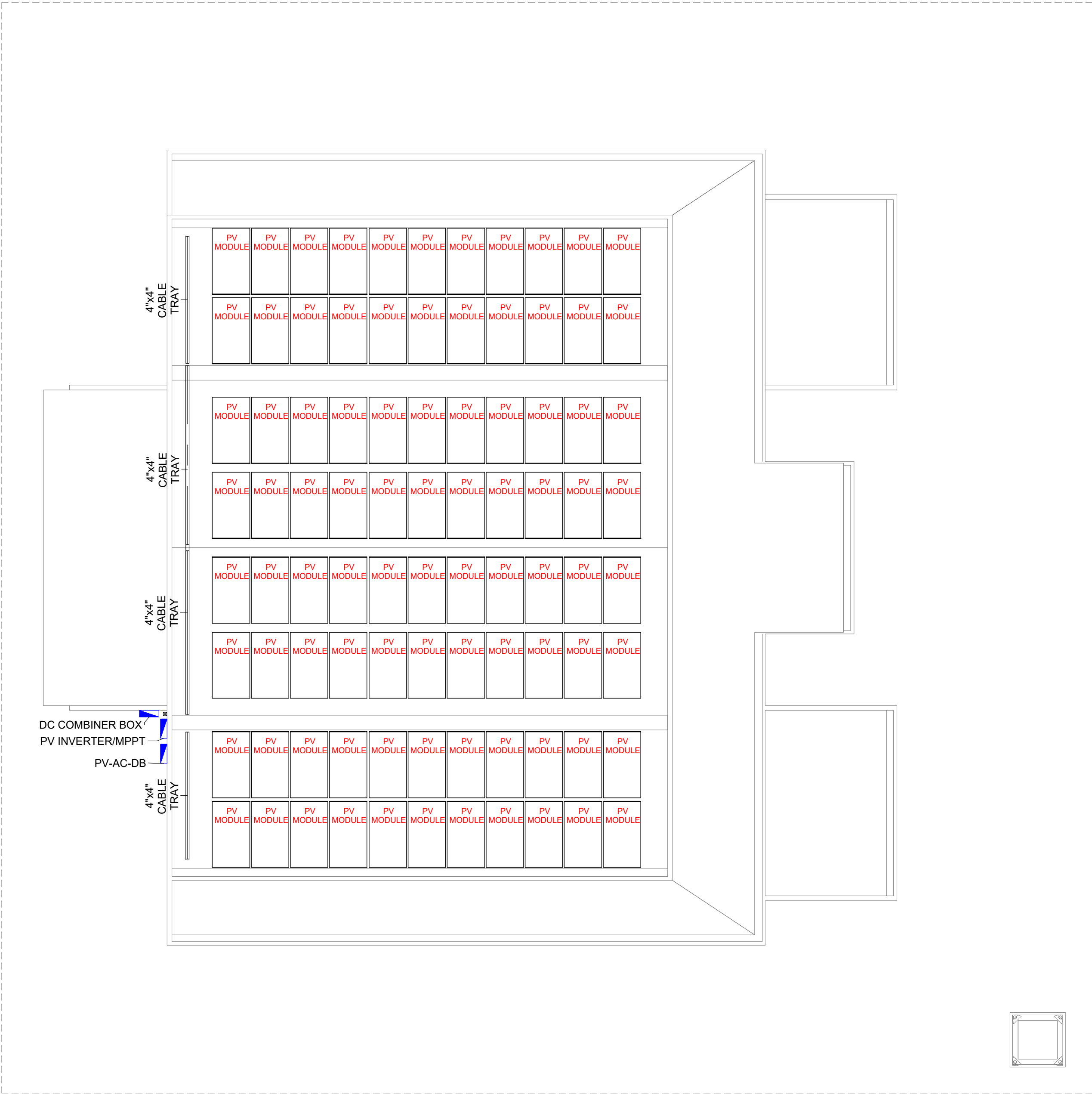




GROUND FLOOR\_PA & ICT LAYOUT  
SCALE 1:100



GENERAL NOTES				
- DO NOT SCALE FROM THIS DRAWING.				
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.				
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REVISIONS				
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LEAD CONSULTANT				
RIYAN PVT LTD				
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CONSULTANT PROJECT NO. R24002MIA				
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APPROVED BY				
PROJECT NAME				
PROTOTYPE MOSQUES				
CLIENT	MINISTRY OF ISLAMIC AFFAIRS			
DEVELOPER				
ATOLL				
ISLAND				
LAGOON (GPS COORDINATES)				
ISSUED FOR				
DD - DETAIL DESIGN				
BUILDING NAME				
MOSQUE FOR 500 PAX				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		29 MAY 2024		
DRAWING TITLES				
GROUND FLOOR				
PUBLIC ANNOUNCEMENT AND ICT LAYOUT				
SHEET SIZE		A2	SCALE 1:100	
SHEET NO.				
ELE - 04				
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ROOF\_SOLAR PV LAYOUT  
SCALE 1:100



GENERAL NOTES

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- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
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REVISIONS

REV. NO.	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY

CONSULTANT

LEAD CONSULTANT

RIYAN PVT LTD

DESIGN CONSULTANT

REGISTERED LOCAL CONSULTANT



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CONSULTANT PROJECT NO. R24002MIA	
ARCHITECT	ISMAIL RASHEED
CIVIL ENGINEER	ZAINAL A. ALI RASHEED
MEP ENGINEER	CHESTER DIZA PERALTA
INT. DESIGNER	
INFRA DESIGNER	
DRAWN BY	CHESTER DIZA PERALTA
CHECKED BY	MOHAMED EVAN IBRAHIM
APPROVED BY	

PROJECT NAME

PROTOTYPE MOSQUES

CLIENT

MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES)

ISSUED FOR

DD - DETAIL DESIGN

BUILDING NAME

MOSQUE FOR 500 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE
	29 MAY 2024

DRAWING TITLES

ROOF

SOLAR PV LAYOUT

SHEET SIZE	A2	SCALE	1:100
SHEET NO.			
ELE - 05			

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LOAD CALCULATION																						
FEEDER NAME/No:		DB-1- (MOSQUE 500 Pax)		MAIN BREAKER :		125AT, 4P, CURVE C MCCB		LOCATION:		EE ROOM												
SYSTEM VOLTAGE:		400V/230V, 3Ø, 4W+G		MAIN BUS :		150A,3P, Cu, TINNED BUSBAR		ENCLOSURE :		POLYCARBONATE, IP55												
MAIN. KAIC:		10kA		EARTH FAULT RATING:		125/5, ELR/OCR		MOUNTING :		Wall Mounted												
FED FROM (SOURCE):		DB-2		MAIN FEEDER SIZE:		1x4C-35mm²Cu/ XLPE/SWA/PVC + 25mm² PE		CABLE LAYOUT :		RUN CONCEALED												
TYPE:		3 PHASE																				
LOAD CALCULATION																						
CKT NO	Description	QTY	W/Pts	Connected Load	LF	DF	P.F	Total Apparent Power(WA) (DL)	Total Active Power(W) (DL)	VOLTAGE	AMPERE LOAD (A)				MCB/MCCB (PROTECTION)				Curve	ELCB/R CCB	WIRING CONDUCTOR	CONDUIT/RACEWAY
											R(L1)	Y(L2)	B(L3)	3PHASE	AT	AF	P	kA				RUN CONCEALED
DB-1-1	LF20-LIGHTING FIXTURE ; CEILING FAN	10	50	500.00	1.00	0.80	0.90	444.44	400.00	230	1.93				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-2	LF14-LIGHTING FIXTURE	8	50	400.00	1.00	0.80	0.90	355.56	320.00	230		1.55			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-3	LF14-LIGHTING FIXTURE	12	50	600.00	1.00	0.80	0.90	533.33	480.00	230			2.32		10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-4	LF14-LIGHTING FIXTURE	9	50	450.00	1.00	0.80	0.90	400.00	360.00	230	1.74				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-5	CEILING FAN	6	100	600.00	1.00	0.80	0.90	533.33	480.00	230		2.32			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-6	LF14-LIGHTING FIXTURE	12	50	600.00	1.00	0.80	0.90	533.33	480.00	230			2.32		10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-7	CEILING FAN	6	100	600.00	1.00	0.80	0.90	533.33	480.00	230	2.32				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-8	LF14-LIGHTING FIXTURE	9	50	450.00	1.00	0.80	0.90	400.00	360.00	230		1.74			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-9	LF14-LIGHTING FIXTURE	10	50	500.00	1.00	0.80	0.90	444.44	400.00	230			1.93		10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-10	LF27-LIGHTING FIXTURE	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230	1.93				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-11	LF27-LIGHTING FIXTURE	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-12	LF10-LIGHTING FIXTURE	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230			1.93		10	100	1	6	C	32A,4P	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-13	CEILING FAN	6	100	600.00	1.00	0.80	0.90	533.33	480.00	230	2.32				10	100	1	6	C	30mA	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-14	LF05-LIGHTING FIXTURE	13	50	650.00	1.00	0.80	0.90	577.78	520.00	230		2.51			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-15	LF20-LIGHTING FIXTURE	6	50	300.00	1.00	0.80	0.90	266.67	240.00	230			1.16		10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-16	LF20-LIGHTING FIXTURE	6	50	300.00	1.00	0.80	0.90	266.67	240.00	230	1.16				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-17	LF05-LIGHTING FIXTURE	10	50	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-18	LF05-LIGHTING FIXTURE	14	50	700.00	1.00	0.80	0.90	622.22	560.00	230			2.71		10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-19	LF05-LIGHTING FIXTURE (T/S)	7	50	350.00	1.00	0.80	0.90	311.11	280.00	230	1.35				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-20	LF05-LIGHTING FIXTURE (T/S)	11	50	550.00	1.00	0.80	0.90	488.89	440.00	230		2.13			10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-21	LF05-LIGHTING FIXTURE (T/S)	7	50	350.00	1.00	0.80	0.90	311.11	280.00	230			1.35		10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-22	CEILING FAN	6	50	300.00	1.00	0.80	0.90	266.67	240.00	230	1.16				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-23	LF05-LIGHTING FIXTURE	13	50	650.00	1.00	0.80	0.90	577.78	520.00	230	2.51				10	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-1	SPARE	0	100	-	1.00	0.80	0.90	-	-	230			0.00		10	100	1	6	C			
DB-1-1	SPARE	0	100	-	1.00	0.80	0.90	-	-	230		-			10	100	1	6	C			
	TOTAL CONNECTED LIGHTING LOAD										13.91	16.62	13.72		32	100	3	10	C		4x1C-6mm² PVC/PVC + 6mm² PVC PE	CONDUIT/RACEWAY
DB-1-24	13A SINGLE POWER SOCKET SWITCH TYPE	3	90	270.00	1.00	0.80	0.90	240.00	216.00	230	1.04				16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-25	13A SINGLE POWER SOCKET SWITCH TYPE	3	90	270.00	1.00	0.80	0.90	240.00	216.00	230		1.04			16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-26	13A SINGLE POWER SOCKET SWITCH TYPE	3	90	270.00	1.00	0.80	0.90	240.00	216.00	230			1.04		16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-27	13A SINGLE POWER SOCKET SWITCH TYPE	3	90	270.00	1.00	0.80	0.90	240.00	216.00	230	1.04				16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-28	13A SINGLE POWER SOCKET SWITCH TYPE	7	90	630.00	1.00	0.80	0.90	560.00	504.00	230		2.43			16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-29	13A SINGLE POWER SOCKET SWITCH TYPE	3	90	270.00	1.00	0.80	0.90	240.00	216.00	230			1.04		16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-30	13A SINGLE POWER SOCKET SWITCH TYPE	4	500	2,000.00	1.00	0.80	0.90	1,777.78	1,600.00	230	7.73				16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-31	13A SINGLE POWER SOCKET SWITCH TYPE	4	500	2,000.00	1.00	0.80	0.90	1,777.78	1,600.00	230		7.73			16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-32	13A SINGLE POWER SOCKET SWITCH TYPE	3	500	1,500.00	1.00	0.80	0.90	1,333.33	1,200.00	230			5.80		16	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-33	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230	1.93				20	100	1	6	C	32A,4P	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-34	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			20	100	1	6	C	100mA	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-35	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230			1.93		20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-36	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230	1.93				20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-37	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-38	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230			1.93		20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-39	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230	1.93				20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-40	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230		1.93			20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-41	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC (CASSETTE TYPE)	1	500	500.00	1.00	0.80	0.90	444.44	400.00	230			1.93		20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-42	13A SINGLE POWER SOCKET SWITCH TYPE	2	500	1,000.00	1.00	0.80	0.90	888.89	800.00	230	3.86				20	100	1	6	C		2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-43,44,45	3P ISOLATOR FOR VRF	1	12,000.00	12,000.00	1.00	0.80	0.90	10,666.67	9,600.00	230	15.40	15.40	15.40		32	100	3	10	C		1Rx4C-10mm² Cu/XLPE/SWA/PVC +	CONDUIT/RACEWAY
DB-1-46,47,48	3P ISOLATOR FOR VRF	1	12,000.00	12,000.00	1.00	0.80	0.90	10,666.67	9,600.00	230	15.40	15.40	15.40		32	100	3	10	C		1Rx4C-10mm² Cu/XLPE/SWA/PVC +	CONDUIT/RACEWAY
DB-1-49,50,49	DB-2- (MOSQUE 500 Pax)	1	4,266.76	4,266.76	1.00	1.00																



ELECTRICAL LOAD CALCULATION\_DB-2

LOAD CALCULATION																							
FEEDER NAME/No: DB-2- (MOSQUE 500 Pax)				MAIN BREAKER : 32AT, 3P, CURVE C MCCB				LOCATION: EE ROOM															
SYSTEM VOLTAGE: 400V/230V, 3Ø, 4W+G				MAIN BUS : 63A,3P, Cu. Com. BUSBAR				ENCLOSURE : POLYCARBONATE, IP55															
MAIN. KAIC: 10kA				EARTH FAULT RATING: 40A,30mA, RCCD				MOUNTING : Wall Mounted															
FED FROM (SOURCE): DB-2				MAIN FEEDER SIZE: 1x4C-10mm²Cu/ XLPE/SWA/PVC + 10mm² PE				CABLE LAYOUT : RUN CONCEALED															
TYPE: 3 PHASE																							
LOAD CALCULATION																							
CKT NO	Description	QTY	W/Pts	Connected Load	LF	DF	P.F	Total Apparent Power(VA) (DL)	Total Active Power(W) (DL)	VOLTAGE	AMPERE LOAD (A)				MCB/MCCB (PROTECTION)				Curve	ELCB/R CCB	WIRING CONDUCTOR	CONDUIT/RACEWAY	
											R(L1)	Y(L2)	B(L3)	3PHASE	AT	AF	P	kA				RUN CONCEALED	
DB-2-1	LF26-LIGHTING FIXTURE IN TIMER SWITCH (T/S)	4	50	200.00	1.00	0.80	0.90	177.78	160.00	230	0.77				10	100	1	6	C			2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-2-2	LF26-LIGHTING FIXTURE IN TIMER SWITCH (T/S)	4	50	200.00	1.00	0.80	0.90	177.78	160.00	230		0.77			10	100	1	6	C			2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-2-3	LF11.a-LIGHTING FIXTURE IN TIMER SWICTH(T/S)	7	50	350.00	1.00	0.80	0.90	311.11	280.00	230			1.35		10	100	1	6	C			2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-2-4	LF11.a-LIGHTING FIXTURE IN TIMER SWICTH(T/S)	5	50	250.00	1.00	0.80	0.90	222.22	200.00	230	0.97				10	100	1	6	C			2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-2-5	LF11.a-LIGHTING FIXTURE IN TIMER SWICTH(T/S)	7	50	350.00	1.00	0.80	0.90	311.11	280.00	230		1.35			10	100	1	6	C			2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-2-6	LF05-LIGHTING FIXTURE IN TIMER SWITCH (T/S)	3	50	150.00	1.00	0.80	0.90	133.33	120.00	230			0.58		10	100	1	6	C			2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-2-7	LF26-LIGHTING FIXTURE IN TIMER SWITCH (T/S)	2	50	100.00	1.00	0.80	0.90	88.89	80.00	230	0.39				10	100	1	6	C			2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-2-8	LF11.a-LIGHTING FIXTURE IN TIMER SWICTH(T/S)	4	50	200.00	1.00	0.80	0.90	177.78	160.00	230		0.77			10	100	1	6	C			2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-	SPARE	1	100	100.00	1.00	0.80	0.90	88.89	80.00	230			0.39		10	100	1	6	C				
DB-1-	SPARE	1	100	100.00	1.00	0.80	0.90	88.89	80.00	230	0.39				10	100	1	6	C				
	TOTAL CONNECTED LIGHTING LOAD										2.51	2.90	2.32		32	100	3	10	C			4x1C-6mm² PVC/PVC + 6mm² PVC PE	CONDUIT/RACEWAY
DB-2-9,10,11	Pump 1	1	2,300.00	2,300.00	1.00	0.80	0.90	2,044.44	1,840.00	230	2.95	2.95	2.95		32	100	3	10	C			1Rx4C-10mm² Cu/XLPE/SWA/PVC +	CONDUIT/RACEWAY
DB-2-	SPARE	1	180	180.00	1.00	0.80	0.90	160.00	144.00	230			0.70		16	100	1	6	C				
DB-2-	SPARE	1	180	180.00	1.00	0.80	0.90	160.00	144.00	230	0.70				16	100	1	6	C				
	TOTAL POWER CONNECTED LOAD							2,807.10		400	3.65	2.95	3.65	-	40	100	3	10	C			4x1C-10mm² PVC/PVC + 10mm² PVC PE	CONDUIT/RACEWAY
MAIN CONNECTED LOAD(3-phase)							0.9	4,266.76	3,840.08		6.16	5.85	5.97	6.16					-				-
Load Calculation																							
Description		Unit		List of Equipment																			
Total 3 Phase Load (DL)		A	6.16	Description		Unit	Qty																
Total Active Power (DL)		KW	3.84	32AT, 3P, CURVE C MCCB		No	1																
Safety Factor		%	25%	MCB 32AT, 10KA-3P		No	1																
Total 3 Phase Load_with Safety Factor		A	7.70	MCB 20AT, 6KA-1P		No																	
32AT, 3P, CURVE C MCCB		%	24%	MCB 16AT, 6KA-1P		No																	
Number of Feeders		No	9	MCB 10AT, 6KA-1P		No	10																
Main Breaker Rating		A	32																				
Busbar Dimensions(mm)		A	11x6																				
Busbar Rating		A	63																				

GENERAL NOTES

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RIYAN PVT LTD

DESIGN CONSULTANT

REGISTERED LOCAL CONSULTANT

RIYAN PRIVATE LIMITED

www.riyan.com.mv

CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	ISMAIL RASHEED
CIVIL ENGINEER	ZAINAL A. ALI RASHEED
MEP ENGINEER	CHESTER DIZA PERALTA
INT. DESIGNER	
INFRA. DESIGNER	
DRAWN BY	CHESTER DIZA PERALTA
CHECKED BY	MOHAMED EVAN IBRAHIM
APPROVED BY	

PROJECT NAME

PROTOTYPE MOSQUES

CLIENT MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES)

ISSUED FOR

DD - DETAIL DESIGN

BUILDING NAME

MOSQUE FOR 500 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE
	29 MAY 2024

DRAWING TITLES

ELECTRICAL LOAD

CALCULATION - DB 02

SHEET SIZE	A2	SCALE	NTS
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SHEET NO.

ELE - 07

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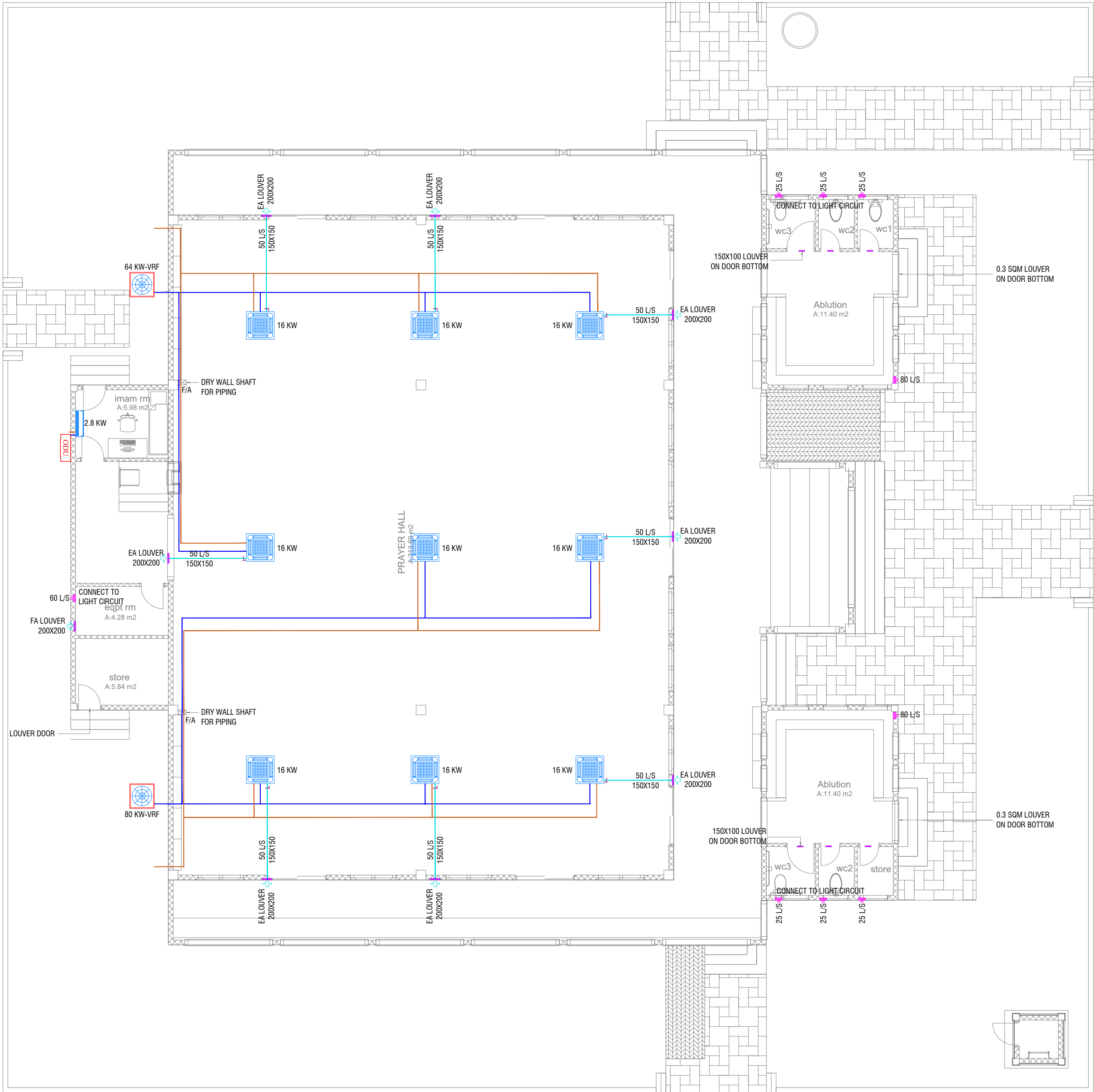


SINGLE LINE DIAGRAM  
DB-2 MOSQUE 500px

GENERAL NOTES				
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DESIGNER				
NFRA DESIGNER				
CHECKED BY	CHESTER DIZA PERALTA			
APPROVED BY	MOHAMED EVAN IBRAHIM			
PROJECT NAME				
PROTOTYPE MOSQUES				
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DEVELOPER				
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ISLAND				
LAGOON (GPS COORDINATES)				
ISSUED FOR				
DD - DETAIL DESIGN				
BUILDING NAME				
MOSQUE FOR 500 PAX				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		29 MAY 2024		
DRAWING TITLES				
ELECTRICAL SINGLE LINE				
DIAGRAM - DB 02				
SHEET SIZE		SCALE NTS		
A2				
SHEET NO.				
ELE - 09				
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GROUND FLOOR\_ACMV LAYOUT  
SCALE 1:100



- ACMV NOTES
- CONTRACTOR SHALL BE RESPONSIBLE TO DO VERIFY DESIGN AND CALCULATIONS, PREPARE SHOP DRAWINGS CONFORMING TO LOCAL REGULATIONS AND GET APPROVAL FROM CONSULTANT/PROJECT MANAGER FOR ACMV POINTS INCLUDING CONDUITING, PIPING AND OTHER RELEVANT EQUIPMENT AND TO BE VERIFIED AT SITE PRIOR TO CONSTRUCTION.
  - THE AC UNIT SHALL BE SUITABLE FOR OPERATION UNDER TROPICAL CONDITION WITH AMBIENT TEMPERATURE AND RELATIVE HUMIDITY.
  - ALL ACMV EQUIPMENTS SHALL BE ANTI-CORROSIVE COATED.
  - FINAL INDOOR AND OUTDOOR CONFIGURATION SELECTION SHALL BE AS PER MANUFACTURE'S RECOMMENDATION
  - PROPER ACCESS FOR EASY MAINTENANCE TO BE PROVIDED AS RECOMMENDED BY THE MANUFACTURER OF EQUIPMENTS ABOVE FALSE CEILING.
  - ALL CEILING SUSPENDED UNIT TO BE PROVIDED WITH ANTI-VIBRATION HANGERS (SPRING TYPE).
  - FLOOR MOUNTED OUTDOOR UNIT SHALL BE PLACED ON A VIBRATION MINIMIZING STRUCTURE SUCH AS H-BEAM FRAME OR A VIBRATION ISOLATION FRAME WITH ANTI CORROSION COATING AND AN ISOLATION PAD
  - ALUMINUM CLADDING TO BE PROVIDED OVER THE INSULATION FOR THE EXPOSED DUCT AND PIPE WORKS.
  - U-TRAP SHALL BE PROVIDED IN THE DRAIN PIPING (WHEREVER REQUIRED).
  - AIR OUTLET SHALL BE COMPLETELY FACTORY ALUMINUM EXTRUDED WITH POWDER COATED AND THE COLOR SHALL BE THE APPROVAL OF THE INTERIOR DESIGN.
  - LOUVER WITH BIRD SCREEN TO BE PROVIDED FOR ALL THE FRESH AIR AND EXHAUST AIR DUCT.
  - LOUVER WITH BIRD SCREEN AND FILTER TO BE PROVIDED FOR ALL THE FRESH AIR FAN DUCT
  - CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ELECTRICAL POWER REQUIREMENTS TO ELECTRICAL CONTRACTOR.
  - CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DRAINAGE PIPING WITH PLUMBING CONTRACTOR.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL OTHER SERVICES.
  - CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATING THE STATIC PRESSURE.
  - CONTRACTOR SHALL BE RESPONSIBLE TO MODIFY, CHANGE, REROUTE, RE LOCATE AS PER THE SITE CONDITION AND SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO PROCUREMENT & CONSTRUCTION.
  - CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS BEFORE STARTING WORKS.

ACMV LEGEND	
	CASSETTE UNIT
	OUTDOOR UNIT
	WALL MOUNTED EXHAUST FAN
	LOUVER WITH BIRD SCREEN
	REFRIGERANT PIPES WITH INSULATION
	AC DRAIN PIPES WITH INSULATION
	FRESH AIR DUCT
SA	SUPPLY AIR
RA	RETURN AIR
FA	FRESH AIR
EA	EXHAUST AIR
T/B	TO BELOW
T/A	TO ABOVE
F/A	FROM ABOVE
F/B	FROM BELOW

ACMV-DESIGN BASIS REPORT					
SPACES DECEPTION	COOLING LOAD [KW]	INDOOR UNIT	OUTDOOR UNIT	FRESH AIR	EXHAUST AIR [L/S]
Prayer Hall	144.0	Cassette	VRF	10% airflow of indoor unit	
Imam Room	2.8	Wall mounted	Inverter Single split		
Equipment Room					60
Store Room					
Ablution (Male)					80
WC 01					25
WC 02					25
WC 03					25
Ablution (Female)					80
WC 01					25
WC 02					25
Store					25

- GENERAL NOTES
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CONSULTANT PROJECT NO.	R24002MIA
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CIVIL ENGINEER	ZAINAL A. ALI RASHEED
MEP ENGINEER	NITHEESH K. PUNARJAN
INT. DESIGNER	
INFRA. DESIGNER	
DRAWN BY	NITHEESH K. PUNARJAN
CHECKED BY	MOHAMED EVAN IBRAHIM
APPROVED BY	

PROJECT NAME

PROTOTYPE MOSQUES

CLIENT MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES)

ISSUED FOR  
DD - DETAIL DESIGN

BUILDING NAME  
MOSQUE FOR 500 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE
	29 MAY 2024

DRAWING TITLES  
GROUND FLOOR  
AIR-CONDITIONING AND  
MECHANICAL VENTILATION  
LAYOUT

SHEET SIZE A2 SCALE 1:100













SHEET NO.  
ACMV - 01

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## PLUMBING GENERAL NOTES AND LEGENDS

- ALL PLUMBING WORKS INCLUDED HEREIN BE EXECUTED IN ACCORDANCE TO THE PROVISIONS OF THE MALDIVES PLUMBING CODE, NATIONAL BUILDING CODE AND OTHER RELEVANT INTERNATIONAL AND LOCAL CODES AND STANDARDS SET BY THE AUTHORITY HAVING JURISDICTIONS.
- COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
- ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELATIONS REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECT OR ENGINEER.
- PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT THE SITE AND COORDINATE THE WORKS WITH THE UTILITY SERVICE PROVIDER FOR SEWER LINE EFFLUENT AND DISPOSAL POINT AND WATERLINE SERVICE CONNECTION POINT
- ALL SLOPES FOR SEWER HORIZONTAL BRANCHES SHALL BE MAINTAINED AT 2% MINIMUM UNLESS OTHERWISE SPECIFIED.
- SIZE OF THE WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- THE CONTRACTOR SHALL COORDINATE TO THE ENGINEER AND OTHER UTILITIES THE EQUIPMENT PLANS FOR THE REQUIRED EXACT SIZE, NUMBER AND LOCATIONS OF ALL SLEEVES OR OPENINGS THRU FLOOR SLABS AND WALLS.
- SANITARY INSTALLATIONS SHALL NOT IMPAIR THE STRENGTH OF ANY STRUCTURAL MEMBER. CONTRACTOR TO COORDINATE WITH STRUCTURAL FOR PLANS AND DETAILS.
- MATERIAL USED IN INSTALLATIONS SHALL BE OF APPROVED BRAND, FREE FROM ANY DEFECTS AND PASSES THE QUALITY SET FORTH BY THE REGULATORY AUTHORITY FOR STANDARDS.
- ALL FIXTURES SHALL BE INDIVIDUALLY VENTED OR AS INDICATED ON PLAN.
- WATER SUPPLY PIPES OR DISTRIBUTION LINE AND FITTINGS SHALL BE PPR-C PN10 CONFORMING TO DIN STANDARDS OR APPROVED EQUIVALENT.
- SANITARY, VENT AND DRAINAGE PIPES AND FITTINGS SHALL BE PVC IN ACCORDANCE TO ASTM D2564 OR APPROVED EQUIVALENT.
- SIZE OF THE SANITARY, STORM DRAINAGE, VENT AND WATER SUPPLY PIPES AND FITTINGS MUST CONFORM WITH THE SIZES STATED, SPECIFIED AND/OR SHOWN IN THESE PLANS. ALL PIPE SIZES INDICATED IN THE DRAWINGS ARE REFERENCE TO ITS OUTER DIAMETER AND DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- MINIMUM EARTH COVER OF 300MM SHALL BE OBSERVED FOR ALL SANITARY AND WATER SUPPLY LINES.
- CONNECT ALL SANITARY INSTALLATIONS WITH THE APPROPRIATE FITTINGS USING THE PROPER PROCEDURES AND METHODOLOGY. SEE MANUFACTURER'S STANDARD.
- CONDUCT PROPER ROUGHING-INS AND TESTING TO ENSURE THAT THE WORKS ARE LEAK FREE. ALL PRESSURED LINE MUST BE TESTED WITH PRESSURE 2.5 TIMES THE NORMAL WORKING PRESSURE.
- ALL PLUMBING FIXTURES SHALL BE AS PER ARCHITECT'S SPECIFICATIONS.
- ALL SANITARY INSTALLATIONS AS INDICATED HEREIN SHALL BE DONE AS PER PLANS AND SPECIFICATIONS. NO ALTERATIONS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF THE DESIGNER. THE CONTRACTOR SHALL NOTIFY AND CONSULT THE DESIGNER AND OR ITS REPRESENTATIVE ON THIS REGARD.
- ALL PIPES SHALL BE PROVIDED WITH ADEQUATE SUPPORTS, BRACKETS AND HANGERS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR APPROVAL OF THE ENGINEER.
- CONTRACTOR TO PREPARE ALL NECESSARY SHOP DRAWINGS AND SHALL SECURE APPROVAL FROM CONSULTANT OR PROJECT MANAGER PRIOR TO CONSTRUCTION OR START OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MODIFY, CHANGE, REROUTE, RELOCATE PLUMBING POINTS AS PER ACTUAL SITE CONDITION AND SHALL SUBMIT PRIOR SHOP DRAWING/S FOR APPROVAL BEFORE COMMENCING THE WORK OF THE PROPOSAL.








### WATER SUPPLY LEGENDS:

SYMBOL	DESCRIPTION
	COLD WATER SUPPLY LINE
	GLOBE VALVE/ ISOLATION VALVE
	PIPE DOWN
	PIPE UP
	TEE
	TEE REDUCER
	WT
	HB
	HS
	WATER SUPPLY TAPPING POINT
	REDUCER
	NPT
IV	ISOLATION VALVE
GV	GATE VALVE
CV	CHECK VALVE
FLV	FLOAT VALVE
HB	HOSE BIB
CWL	COLD WATERLINE
HWL	HOT WATERLINE
FWL	FLUSHING WATERLINE
RWL	RECOVERED WATERLINE
HWL-RL	HWL – RETURN LINE
CWL-AC	CWL – ABOVE CEILING
CWL-UG	CWL – UNDERGROUND

### WASTE PIPE DRAINAGE LEGENDS:

SYMBOL	DESCRIPTION
	SOIL PIPE
	WASTE PIPE
	VENT PIPE
	STACK
	VENT STACK THRU ROOF
	GROUND OR FLOOR CLEAN OUT
	CEILING CLEAN OUT
	WALL CLEAN OUT
	FLOOR DRAIN OR GULLY
	SLOPE – FLOW DIRECTION
SP / SS	SOIL PIPE / SOIL STACK
WP / WS	WASTE PIPE / WASTE STACK
VP / VS	VENT PIPE / VENT STACK
VSTR	VENT STACK THRU ROOF
FCO / GCO	FLOOR CLEAN OUT/GROUND CLEAN OUT
CCO	CEILING CLEAN OUT
WCO	WALL CLEAN OUT
FG / FD	FLOOR GULLY / FLOOR DRAIN
AC	ABOVE CEILING
US	UNDER SLAB
UG	UNDERGROUND

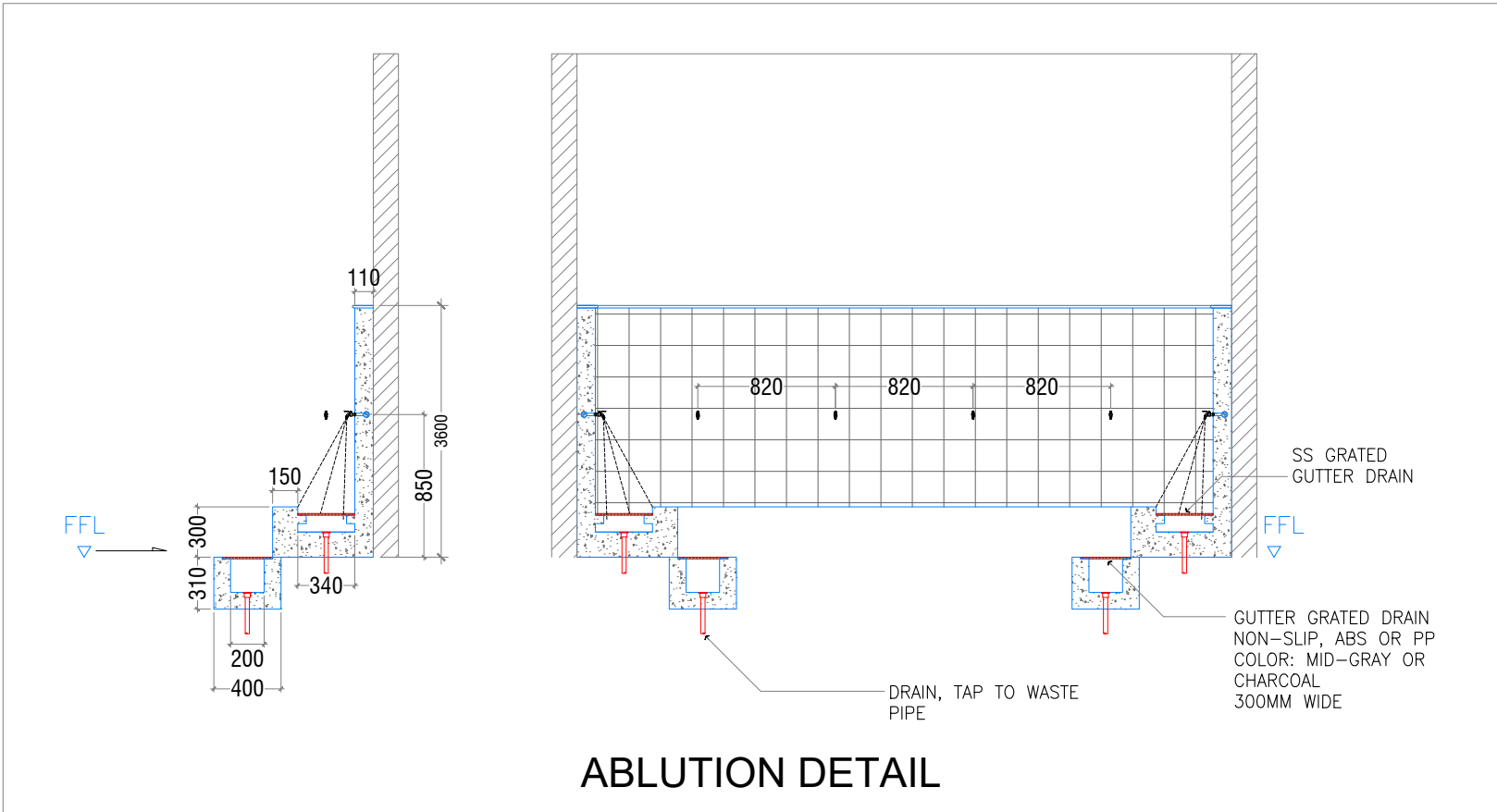
### RAINWATER DRAINAGE LEGENDS:

SYMBOL	DESCRIPTION
	RAINWATER DRAIN PIPE TO TANK
	RAINWATER FIRST FLUSH PIPE
	GROUND OR FLOOR CLEAN OUT
	CEILING CLEAN OUT
	WALL CLEAN OUT
	SPLASH TO GROUND
	SLOPE – FLOW DIRECTION
RWDP	RAINWATER DOWN PIPE / SPOUT
RWDP	RAINWATER DRAINAGE PIPE
FCO / GCO	FLOOR CLEAN OUT/GROUND CLEAN OUT
WCO	WALL CLEAN OUT
AC	ABOVE CEILING
US	UNDER SLAB
UG	UNDERGROUND

## PLUMBING NOTES AND LEGENDS

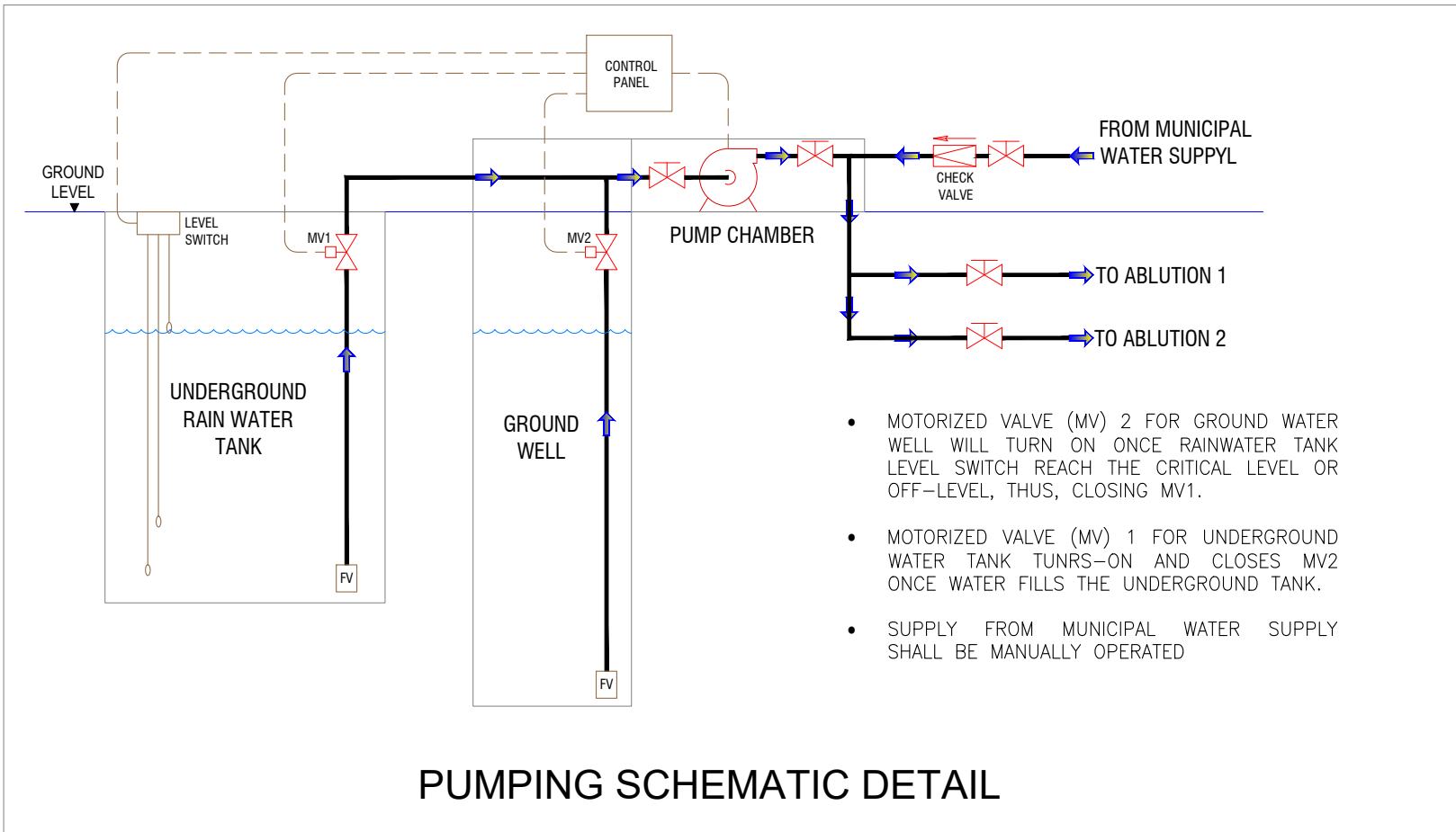
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CONSULTANT PROJECT NO.		R24002MIA	
ARCHITECT	ISMAIL RASHEED		
CIVIL ENGINEER	ZAINAL A. ALI RASHEED		
MEP ENGINEER	MARK KENN BRITO		
DESIGNER			
INFRA. DESIGNER			
DRAWN BY	MARK KENN BRITO		
CHECKED BY	NITHEESH K. PUNARJAN		
APPROVED BY			
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MOSQUE FOR 500 PAX			
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		29 MAY 2024	
DRAWING TITLES			
PLUMBING NOTES AND LEGENDS			
SHEET SIZE		A2	SCALE NTS
SHEET NO.			
01			
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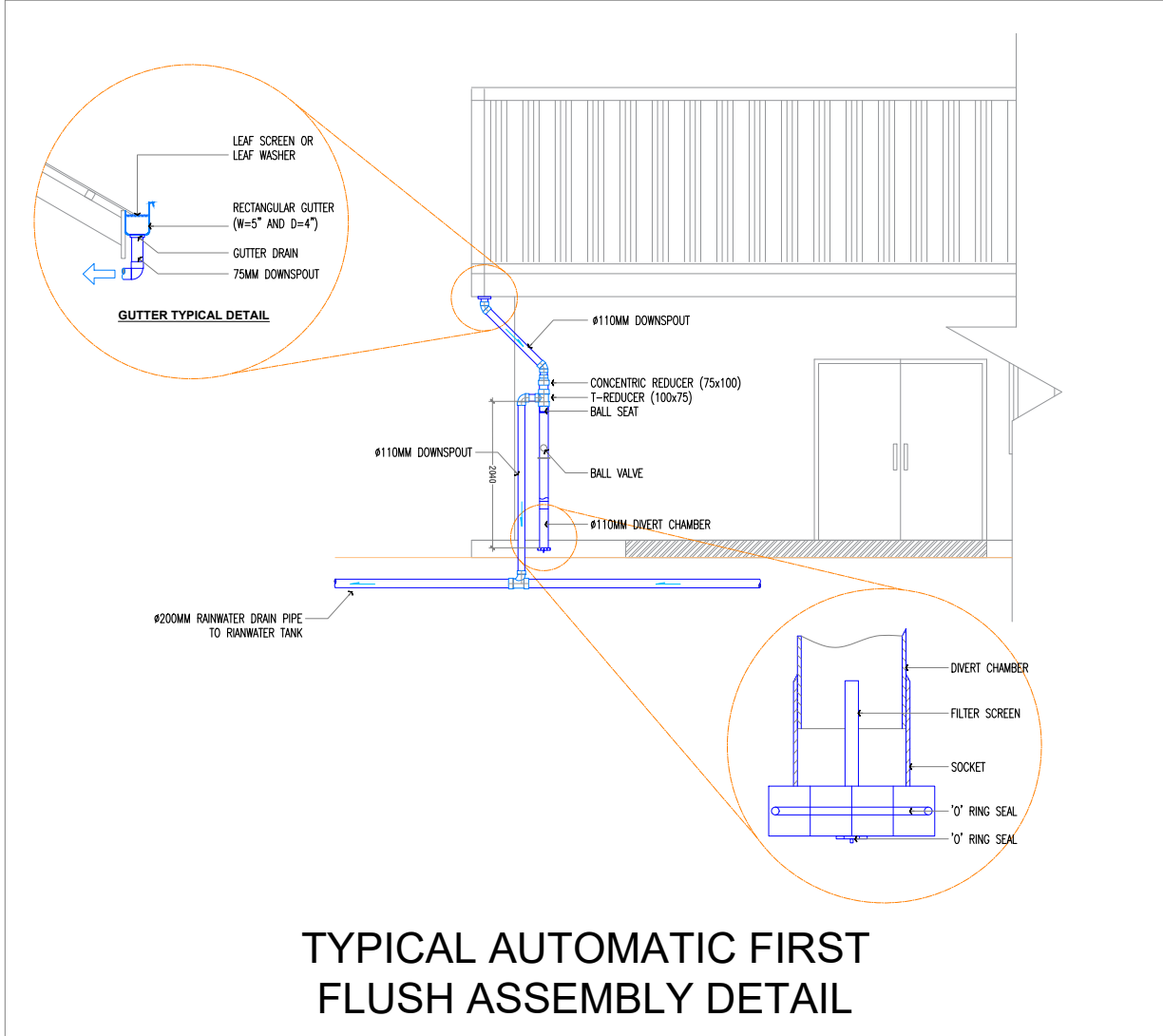
ABLUTION DETAIL

PUMPING SCHEMATIC DETAIL:



PUMPING SCHEMATIC DETAIL

TYPICAL AUTOMATIC FIRST FLUSH ASSEMBLY DETAIL:



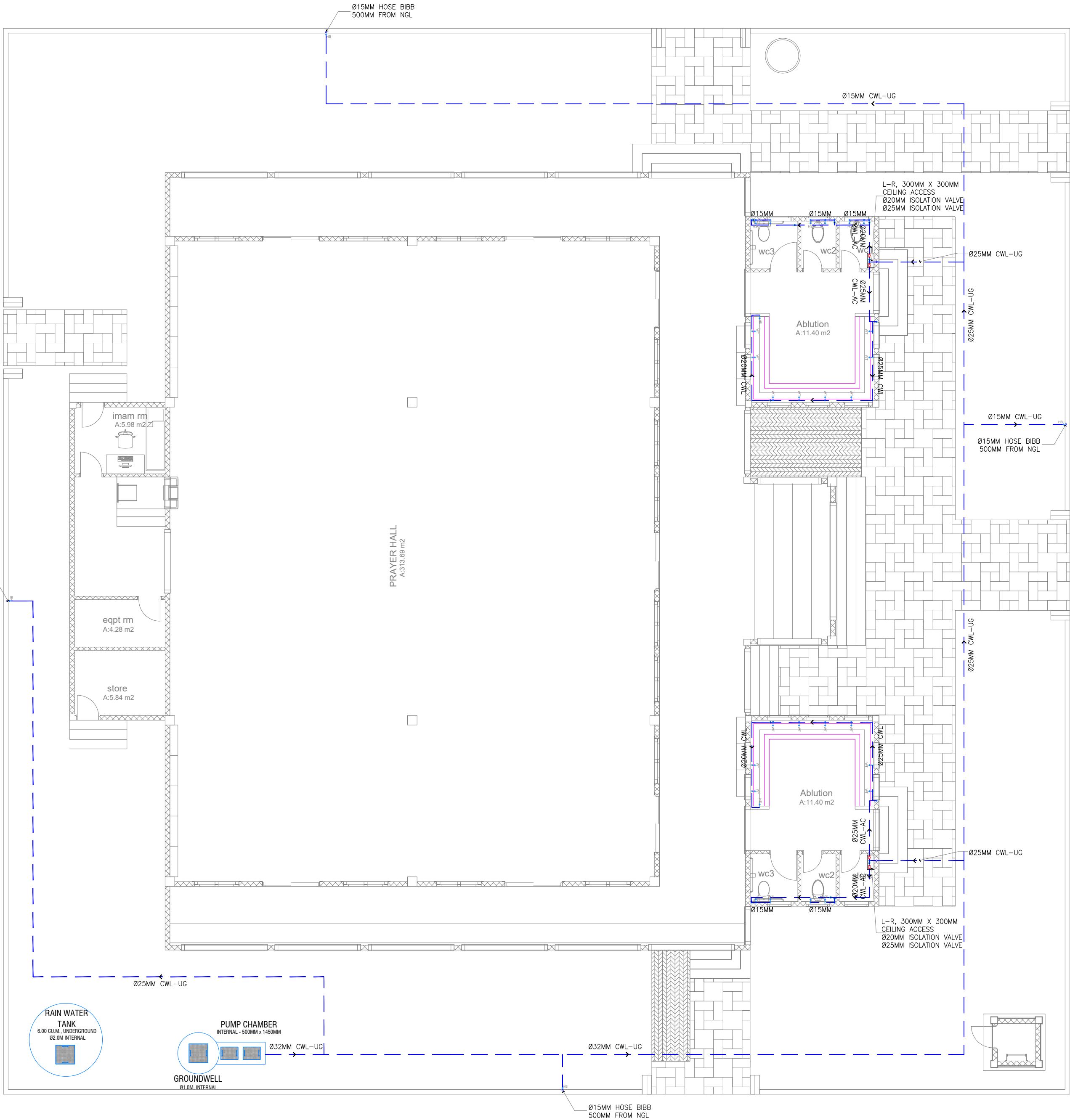
TYPICAL AUTOMATIC FIRST FLUSH ASSEMBLY DETAIL

FLOW RATE AND PUMP SIZING:

I. No. Of Fixtures			
Fixtures	No. of Fixtures	Fixture Flowrate, GPM	Flow Pressure, psi
1. Water Closet, 4.8 LPF Gravity Tank	5	25	20
2. Faucet	16	2.2	20
3. Hose Bibs	4	5	8
4. Bidet	7	2.5	20
II. Maximum/ Probable Demand and Pump Size			
Fixtures		Gallons per Minute	
1. Water Closet, 4.8 LPF Gravity Tank		125	
2. Faucet		35.2	
3. Hose Bibs		20	
4. Bidet		17.5	
Total		197.7	
Maximum Demand, gpm		200	
Flowrate (required) m <sup>3</sup> /sec		0.0126	
Head (m.head)		20.00	
- Suction Head	3.00		
- Delivery	3.00		
- Fixture Pressure – (20psi)	14.00		
Pump Efficiency		75%	
Pump Capacity, (HP)		0.34	

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REVISIONS				
REV. NO	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY





GROUND FLOOR\_WATER SUPPLY LAYOUT  
SCALE 1:100



WATER SUPPLY LEGENDS:

SYMBOL	DESCRIPTION
	COLD WATER SUPPLY LINE
	GLOBE VALVE/ ISOLATION VALVE
	PIPE DOWN
	PIPE UP
	TEE
	TEE REDUCER
	WATER TAP
	HOSE BIBS
	HAND SHOWER BIDET
	WATER SUPPLY TAPPING POINT
	REDUCER
NPT	NATIONAL PIPE THREAD
IV	ISOLATION VALVE
GV	GATE VALVE
CV	CHECK VALVE
FLV	FLOAT VALVE
HB	HOSE BIB
CWL	COLD WATERLINE
HWL	HOT WATERLINE
FWL	FLUSHING WATERLINE
RWL	RECOVERED WATERLINE
HWL-RL	HWL – RETURN LINE
CWL-AC	CWL – ABOVE CEILING
CWL-UG	CWL – UNDERGROUND

GENERAL NOTES

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LEAD CONSULTANT

RIYAN PVT LTD

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RIYAN PRIVATE LIMITED

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CONSULTANT PROJECT NO.

R24002MIA

ARCHITECT	ISMAIL RASHEED
CIVIL ENGINEER	ZAINAL A. ALI RASHEED
MEP ENGINEER	MARK KENN BRITO
INT. DESIGNER	
INFRA DESIGNER	
DRAWN BY	MARK KENN BRITO
CHECKED BY	NITHEESH K. PUNARJAN
APPROVED BY	

PROJECT NAME

PROTOTYPE MOSQUES

CLIENT

MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES)

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MOSQUE FOR 500 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE
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DRAWING TITLES

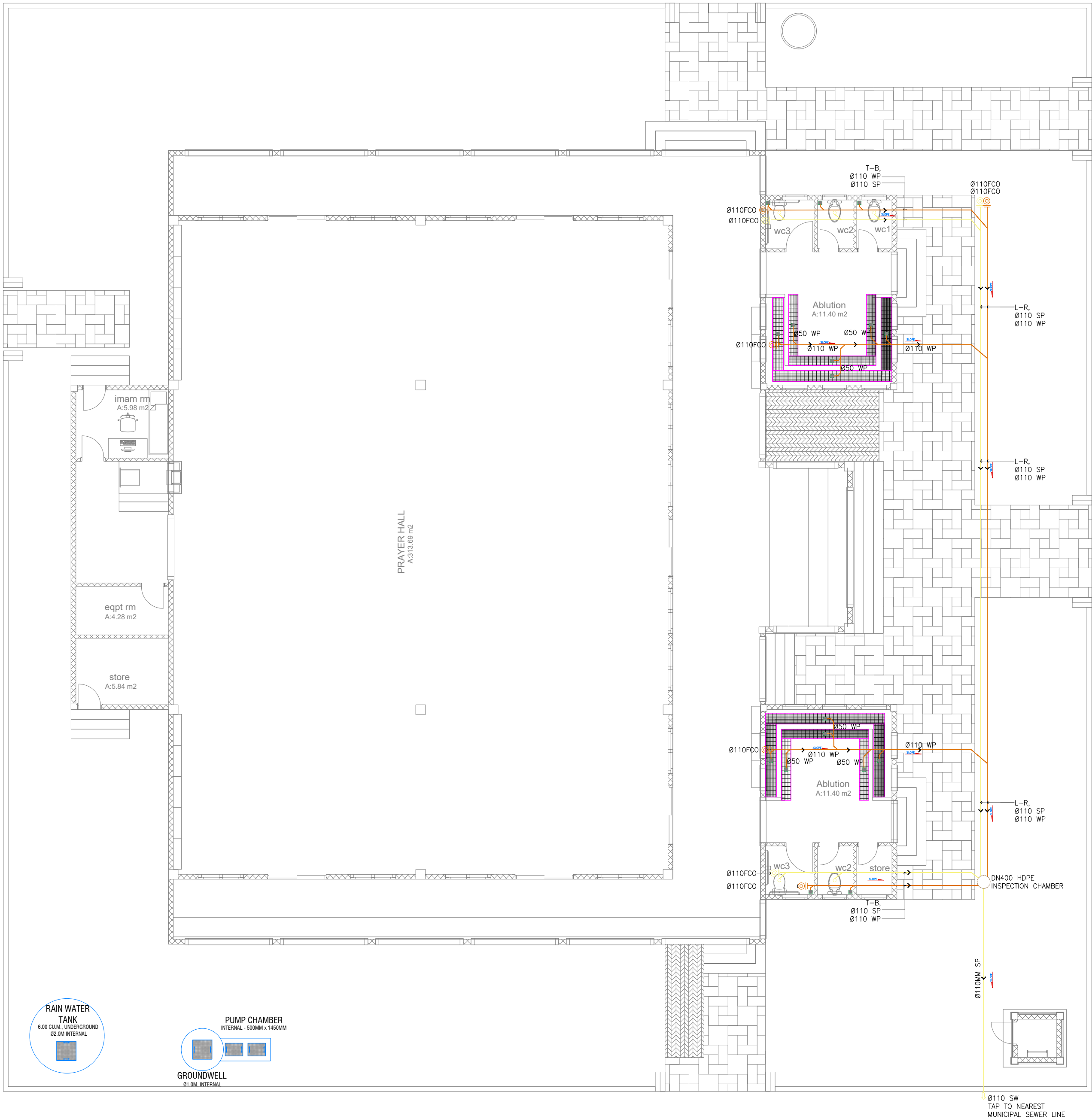
GROUND FLOOR

WATER SUPPLY LAYOUT

SHEET SIZE	A2	SCALE	1:100
SHEET NO.	PL - 03		

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GROUND FLOOR\_WASTE PIPE DRAINAGE LAYOUT  
SCALE 1:100



WASTE PIPE DRAINAGE LEGENDS:

SYMBOL	DESCRIPTION
	SOIL PIPE
	WASTE PIPE
	VENT PIPE
	STACK
	VENT STACK THRU ROOF
	GROUND OR FLOOR CLEAN OUT
	CEILING CLEAN OUT
	WALL CLEAN OUT
	FLOOR DRAIN OR GULLY
	SLOPE - FLOW DIRECTION
SP / SS	SOIL PIPE / SOIL STACK
WP / WS	WASTE PIPE / WASTE STACK
VP / VS	VENT PIPE / VENT STACK
VSTR	VENT STACK THRU ROOF
FCO / GCO	FLOOR CLEAN OUT/GROUND CLEAN OUT
CCO	CEILING CLEAN OUT
WCO	WALL CLEAN OUT
FG / FD	FLOOR GULLY / FLOOR DRAIN
AC	ABOVE CEILING
US	UNDER SLAB
UG	UNDERGROUND

- NOTE:
- EACH BASIN SHALL BE PROVIDED WITH A MINIMUM Ø40MM DIA. OUTLET PIPE.
  - SANITARY, VENT AND DRAINAGE PIPES AND FITTINGS SHALL BE PVC IN ACCORDANCE TO ASTM D2564 OR APPROVED EQUIVALENT
  - ALL SLOPES FOR SEWER HORIZONTAL BRANCHES SHALL BE MAINTAINED AT 2% MINIMUM UNLESS OTHERWISE SPECIFIED.

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CHECKED BY	NITHEESH K. PUNARJAN
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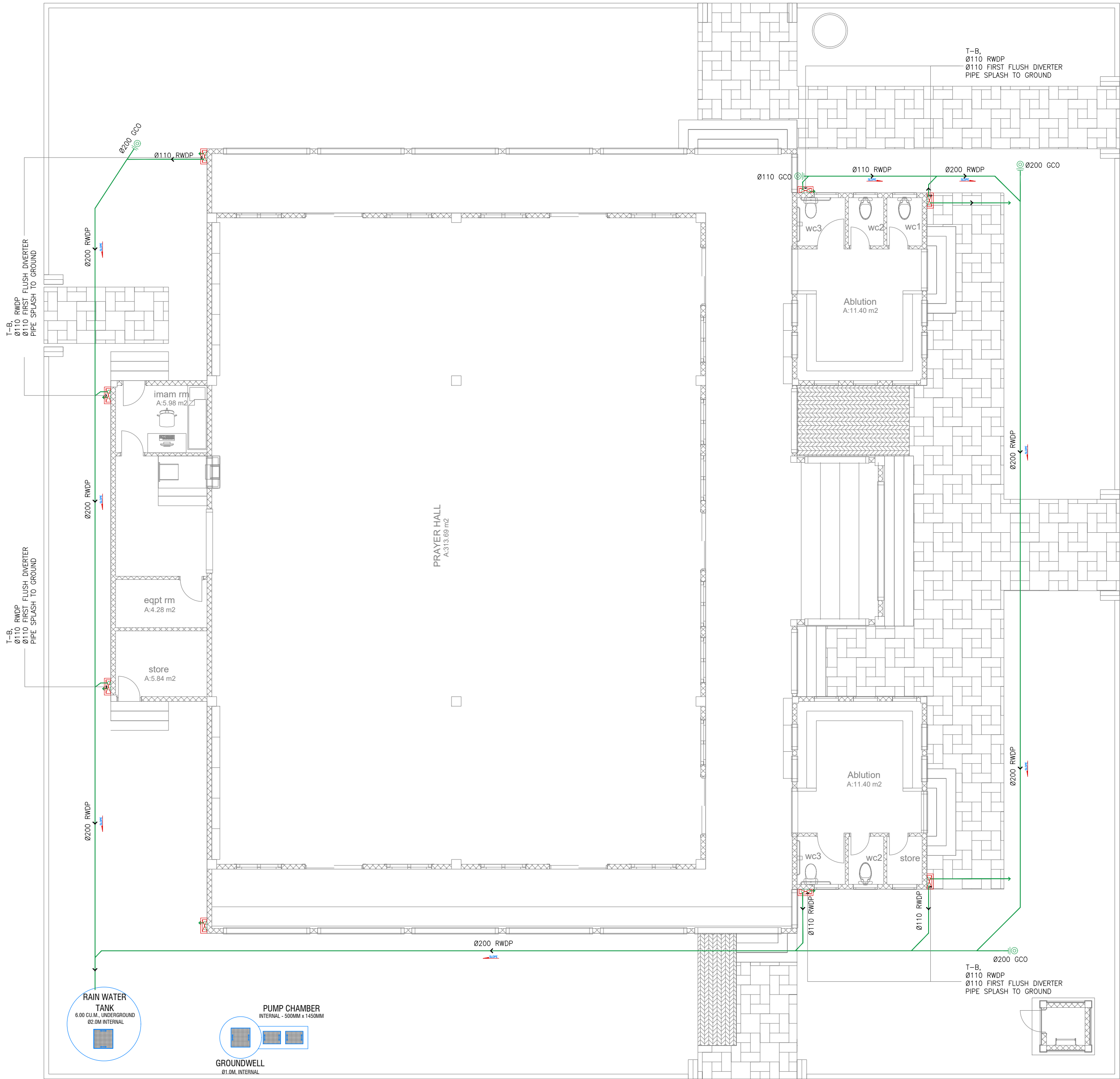
DRAWING TITLES

GROUND FLOOR

WASTE PIPE DRAINAGE LAYOUT

SHEET SIZE	A2	SCALE	1:100
SHEET NO.	PL - 04		

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GROUND FLOOR\_RAINWATER DRAINAGE AND HARVESTING LAYOUT  
SCALE 1:100



RAINWATER DRAINAGE LEGENDS:

SYMBOL	DESCRIPTION
	RAINWATER DRAIN PIPE TO TANK
	RAINWATER FIRST FLUSH PIPE
	GROUND OR FLOOR CLEAN OUT
	CEILING CLEAN OUT
	WALL CLEAN OUT
	SPLASH TO GROUND
	SLOPE - FLOW DIRECTION
RWDP	RAINWATER DOWN PIPE / SPOUT
RWDP	RAINWATER DRAINAGE PIPE
FCO / GCO	FLOOR CLEAN OUT/GROUND CLEAN OUT
WCO	WALL CLEAN OUT
AC	ABOVE CEILING
US	UNDER SLAB
UG	UNDERGROUND

NOTE:

- MINIMUM FIXTURE PIPE CONNECTIONS SHALL BE 15MM OR 1/2". OR REFER TO THE PRODUCT OR MANUFACTURER'S REQUIREMENT. SIZE OF THE WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

NOTE:

- EACH BASIN SHALL BE PROVIDED WITH A MINIMUM Ø40MM DIA. OUTLET PIPE.
- SANITARY, VENT AND DRAINAGE PIPES AND FITTINGS SHALL BE PVC IN ACCORDANCE TO ASTM D2564 OR APPROVED EQUIVALENT
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CIVIL ENGINEER	ZAINAL A. ALI RASHEED
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DEVELOPER

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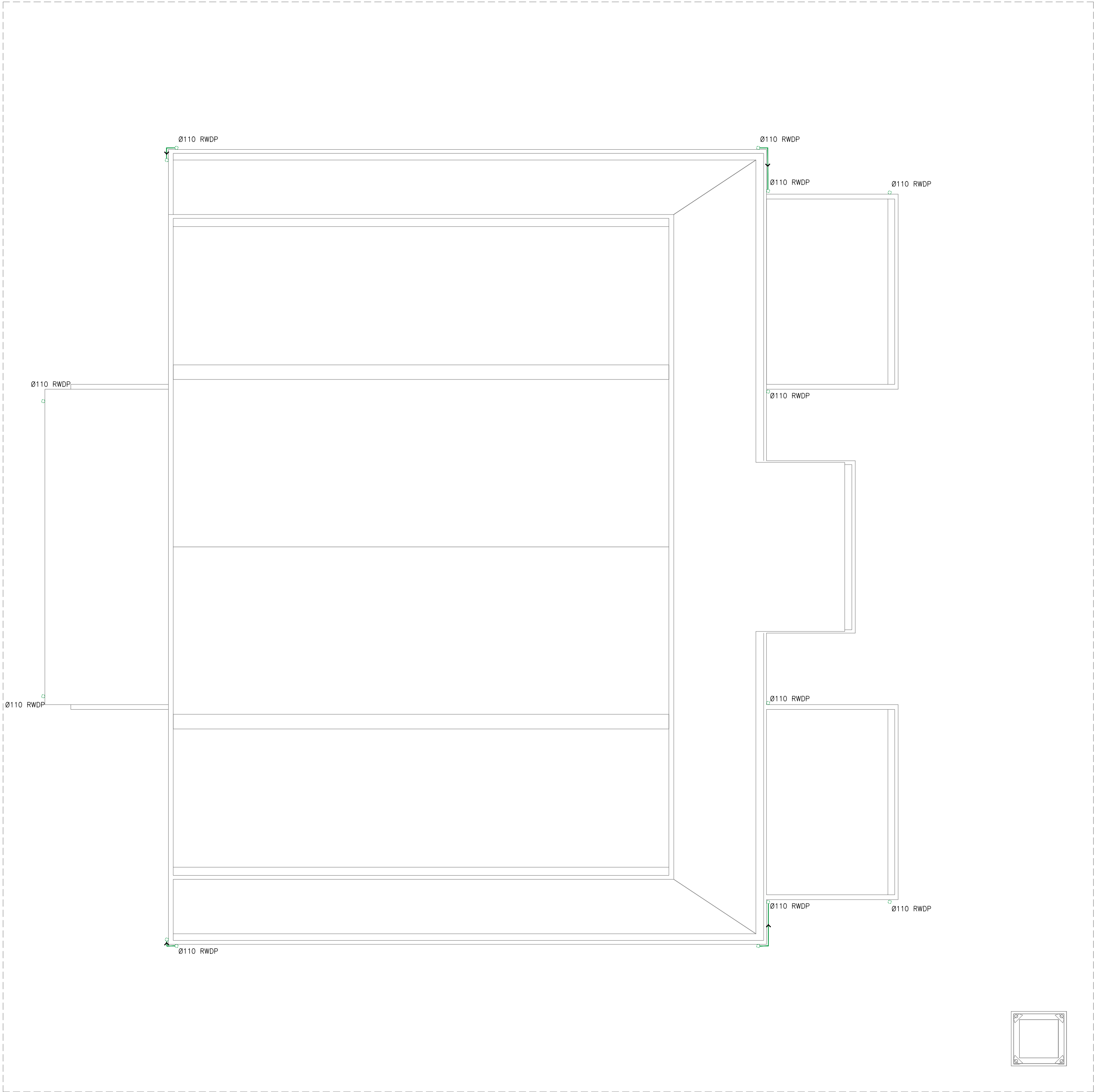
DRAWING TITLES

GROUND FLOOR

RAINWATER DRAINAGE AND HARVESTING LAYOUT

SHEET SIZE	A2	SCALE	1:100
SHEET NO.	PL - 05		

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ROOF\_RAINWATER DRAINAGE AND HARVESTING LAYOUT  
SCALE 1:100



RAINWATER DRAINAGE LEGENDS:

SYMBOL	DESCRIPTION
	RAINWATER DRAIN PIPE TO TANK
	RAINWATER FIRST FLUSH PIPE
	GROUND OR FLOOR CLEAN OUT
	CEILING CLEAN OUT
	WALL CLEAN OUT
	SPLASH TO GROUND
	SLOPE – FLOW DIRECTION
RWDP	RAINWATER DOWN PIPE / SPOUT
RWDP	RAINWATER DRAINAGE PIPE
FCO / GCO	FLOOR CLEAN OUT/GROUND CLEAN OUT
WCO	WALL CLEAN OUT
AC	ABOVE CEILING
US	UNDER SLAB
UG	UNDERGROUND

- NOTE:
- MINIMUM FIXTURE PIPE CONNECTIONS SHALL BE 15MM OR ½”. OR REFER TO THE PRODUCT OR MANUFACTURER’S REQUIREMENT. SIZE OF THE WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER’S INSTRUCTIONS.

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CIVIL ENGINEER	ZAINAL A. ALI RASHEED
MEP ENGINEER	MARK KENN BRITO
INT. DESIGNER	
INFRA. DESIGNER	
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DRAWING TITLES







ROOF

RAINWATER DRAINAGE AND HARVESTING LAYOUT

SHEET SIZE	A2	SCALE	1:100
SHEET NO.	PL - 06		

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- | FDP LEGENDS   |  |
|---|--|
|  | SMOKE DETECTOR   |
|  | HEAT DETECTOR  |
|  | FIRE BLANKET   |
|  | MANUAL CALL POINT  |
|  | EXIT SIGN (MINIMUM 90 MINUTES BATTERY BACKUP AND 80 LUMENS)                |
|  | EMERGENCY LIGHT (MINIMUM 90 MINUTES BATTERY BACKUP AND 300 LUMENS)         |
|  | FIRE ALARM SOUNDER W/ STROBE LIGHT 95dB                                    |
|  | CO <sub>2</sub> EXTINGUISHER (LOAD: 2KG) IN WEATHER PROOF ENCLOSURE (TYP.) |
|  | H <sub>2</sub> O EXTINGUISHER (LOAD: 9L) IN WEATHER PROOF ENCLOSURE (TYP.) |
|  | DCP EXTINGUISHER (LOAD: 6KG) IN WEATHER PROOF ENCLOSURE (TYP.)             |
|  | CONVENTIONAL FIRE ALARM CONTROL PANEL (WITH 2-HOUR BATTERY BACK UP)        |

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