

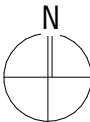
PROPOSED PROTOTYPE
MOSQUES MASJID 300 PAX
MINISTRY OF ISLAMIC AFFAIRS



RIYAN PRIVATE LIMITED

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e: info@riyan.com.jo
w: www.riyan.com.jo
3rd floor, H. Azmi, Amman, Jordan

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SITE PLAN

1 : 125

BUILDING INFORMATION	
PLOT AREA	1124.13 m ²
FOOTPRINT AREA	338.75 m ²
BUILT-UP AREA	338.75 m ²
BUILDING HEIGHT	7.70 m
ROAD WIDTH	VARIABLE

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.
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REVISIONS

[illegible]

CONSULTANT

LEAD CONSULTANT

DESIGN CONSULTANT

REGISTERED LOCAL CONSULTANT



RIYAN PRIVATE LIMITED

www.riyan.com.mv

CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	Ismail Rasheed
CIVIL ENGINEER	Nadhyaan Ali Shareef
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Asanka Dharmarathna
CHECKED BY	Mariyam Irasha Shareef
APPROVED BY	

PROJECT NAME
PROPOSED PROTOTYPE MOSQUES MASJID
300 PAX

CLIENT	MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER	-
ATOLL	---
ISLAND	---
LAGOON (GPS COORDINATES)	-
ISSUED FOR	
DD_DETAIL DESIGN	

BUILDING NAME
Mosque for 300 pax

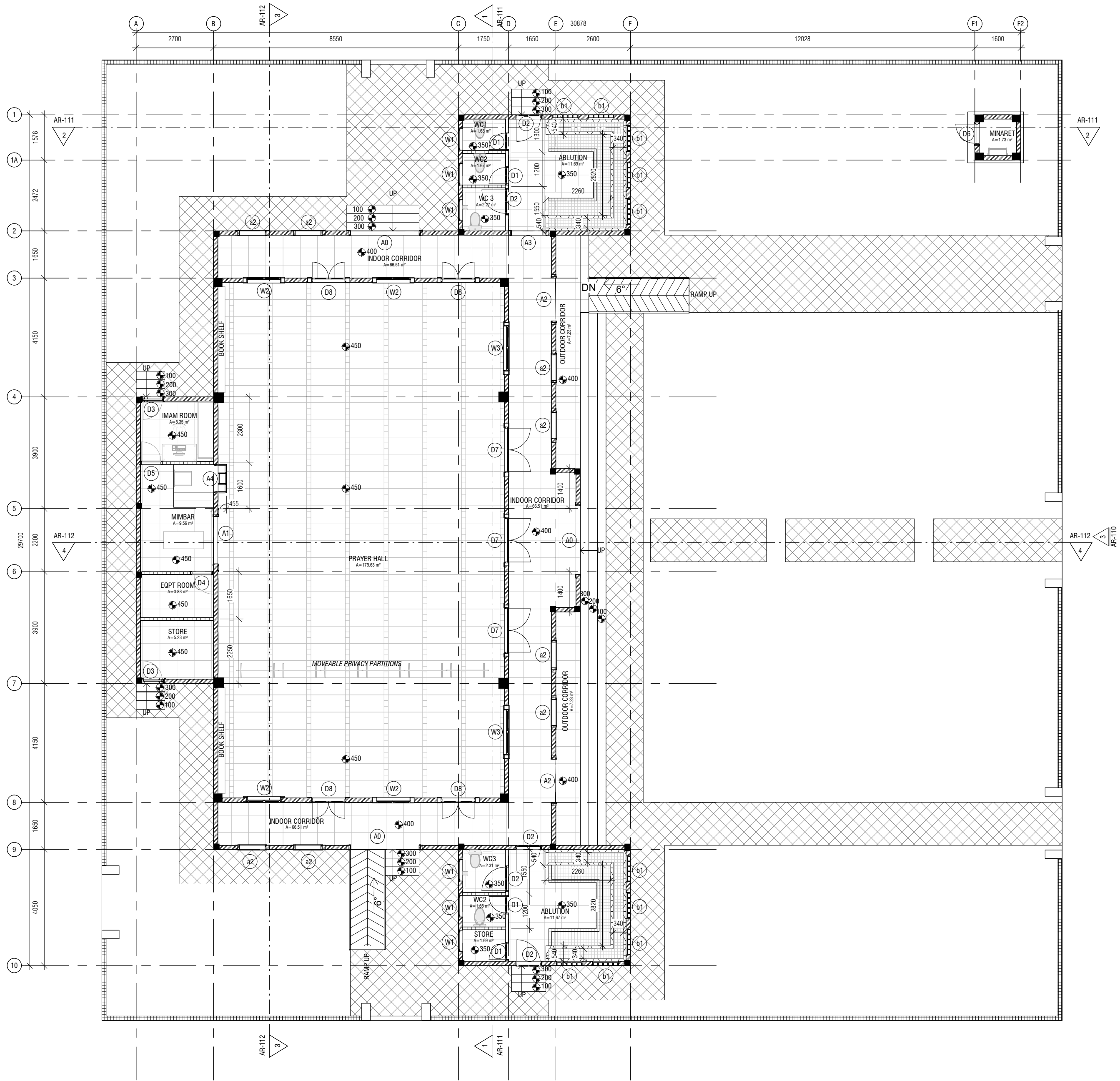
BUILDING/STRUCTURE NO.	ISSUE DATE 27/06/24
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DRAWING TITLES

SITE PLAN

SHEET SIZE	A2	SCALE	1 : 125
SHEET NO.			
AR-103			

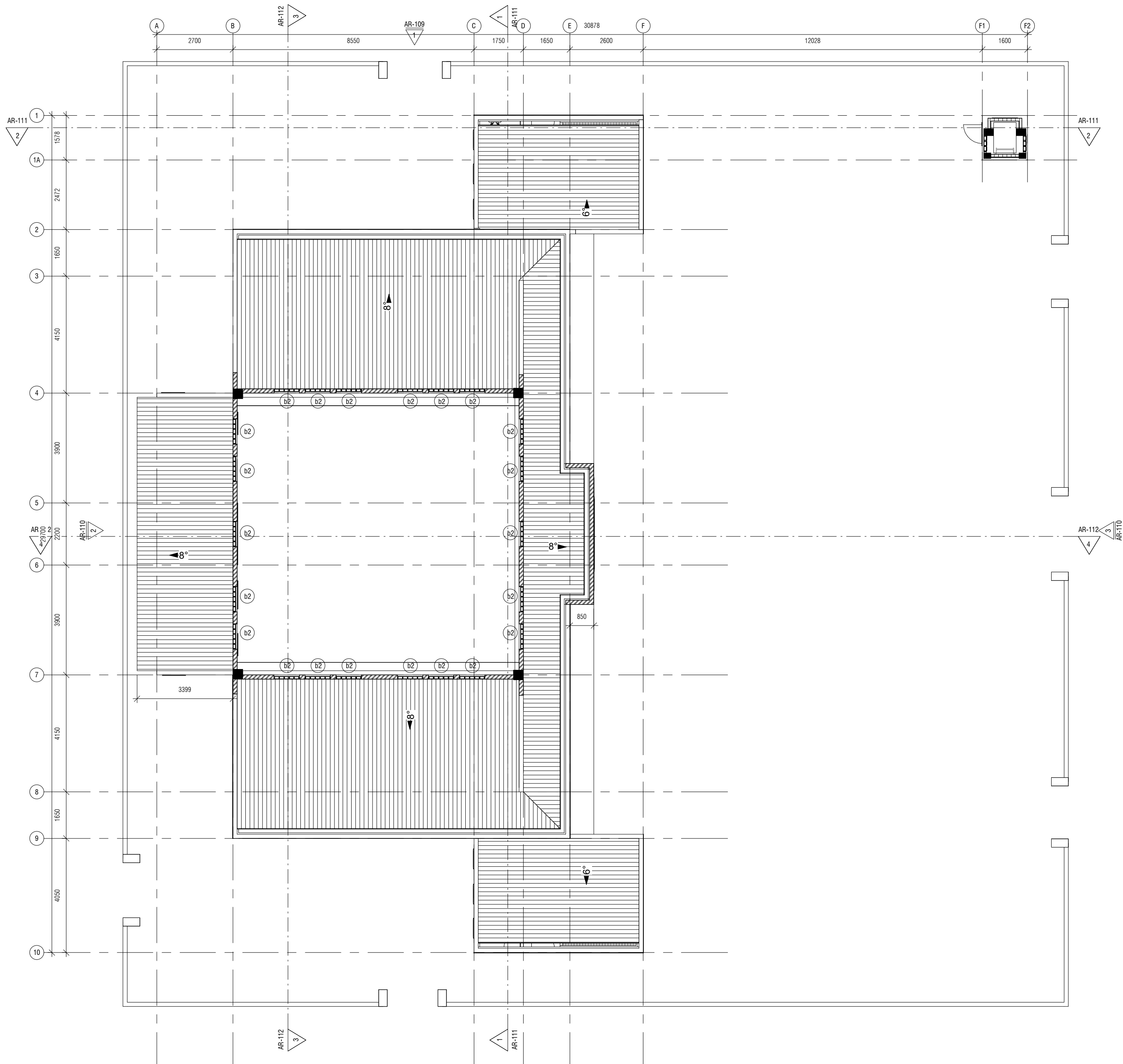
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GROUND FLOOR PLAN

1 : 100

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CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Nadhyaan Ali Shareef			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Asanka Dharmaratna			
CHECKED BY	Mariyam Irasha Shareef			
APPROVED BY				
PROJECT NAME				
PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX				
CLIENT				
MINISTRY OF ISLAMIC AFFAIRS				
DEVELOPER				
-				
TOLL				
—				
ISLAND				
—				
LAGOON (GPS COORDINATES)				
-				
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 300 pax				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		27/06/24		
DRAWING TITLES				
GROUND FLOOR PLAN				
SHEET SIZE		A2	SCALE 1 : 100	
SHEET NO.				
AR-104				
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FIRST FLOOR LEVEL ROOF PLAN
1 : 100

2
AR-109

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CIVIL ENGINEER	Nadhyaan Ali Shareef
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INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Asanka Dharmarathna
CHECKED BY	Mariyam Irasha Shareef
APPROVED BY	

PROJECT NAME

PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX

CLIENT	MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER	-
ATOLL	---
ISLAND	---
LAGOON (GPS COORDINATES)	-
ISSUED FOR	DD_DETAIL DESIGN

BUILDING NAME

Mosque for 300 pax

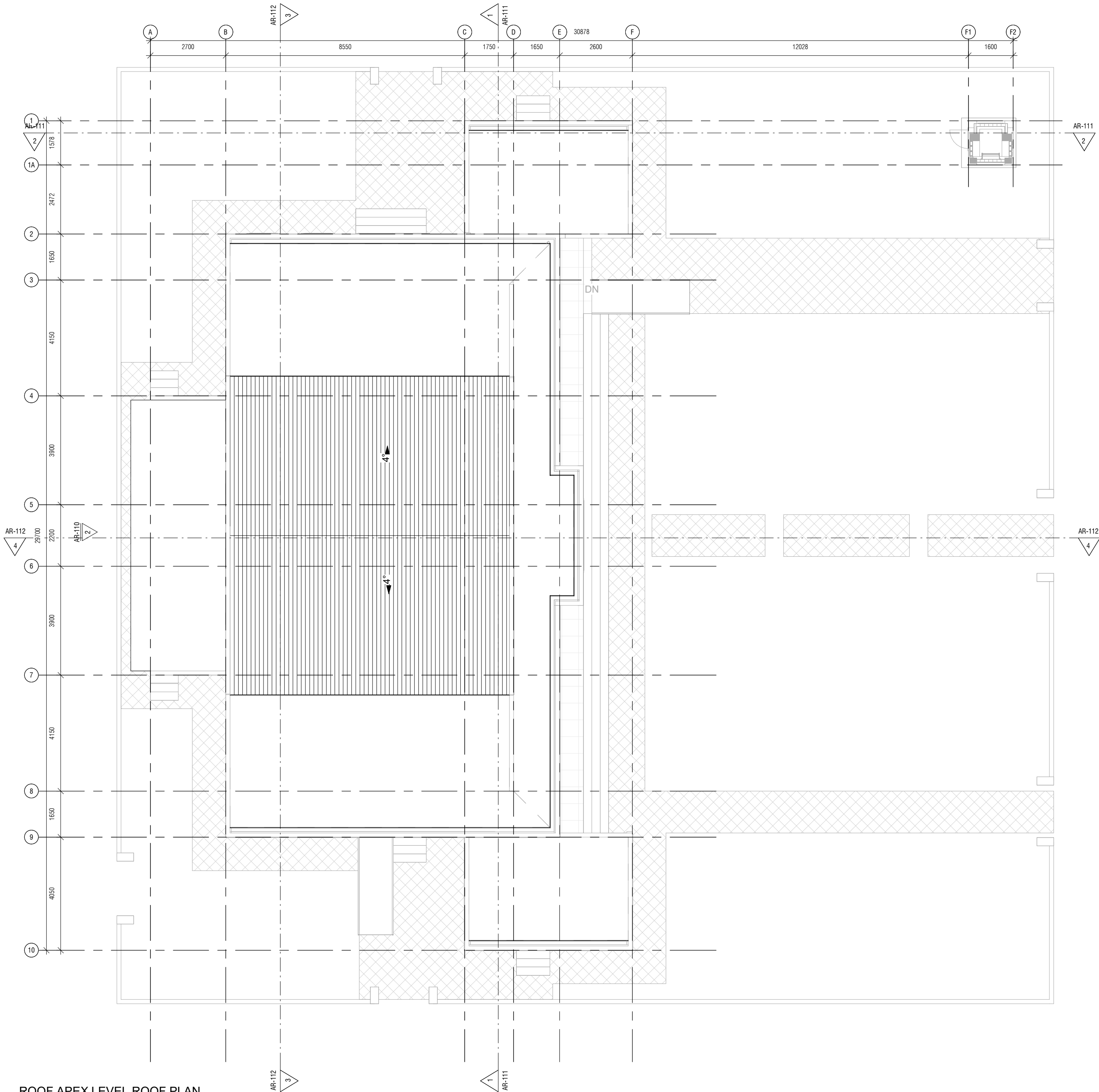
BUILDING/STRUCTURE NO.	ISSUE DATE
	27/06/24

DRAWING TITLES

FIRST FLOOR LEVEL ROOF PLAN

SHEET SIZE	A2	SCALE	1 : 100
SHEET NO.	AR-105		

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ROOF APEX LEVEL ROOF PLAN
1 : 100

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INFRA. DESIGNER	-
DRAWN BY	Asanka Dharmarathna
CHECKED BY	Mariyam Irasha Shareef
APPROVED BY	

PROJECT NAME

PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX

CLIENT	MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER	-
ATOLL	---
ISLAND	---
LAGOON (GPS COORDINATES)	-
ISSUED FOR	DD_DETAIL DESIGN

BUILDING NAME

Mosque for 300 pax

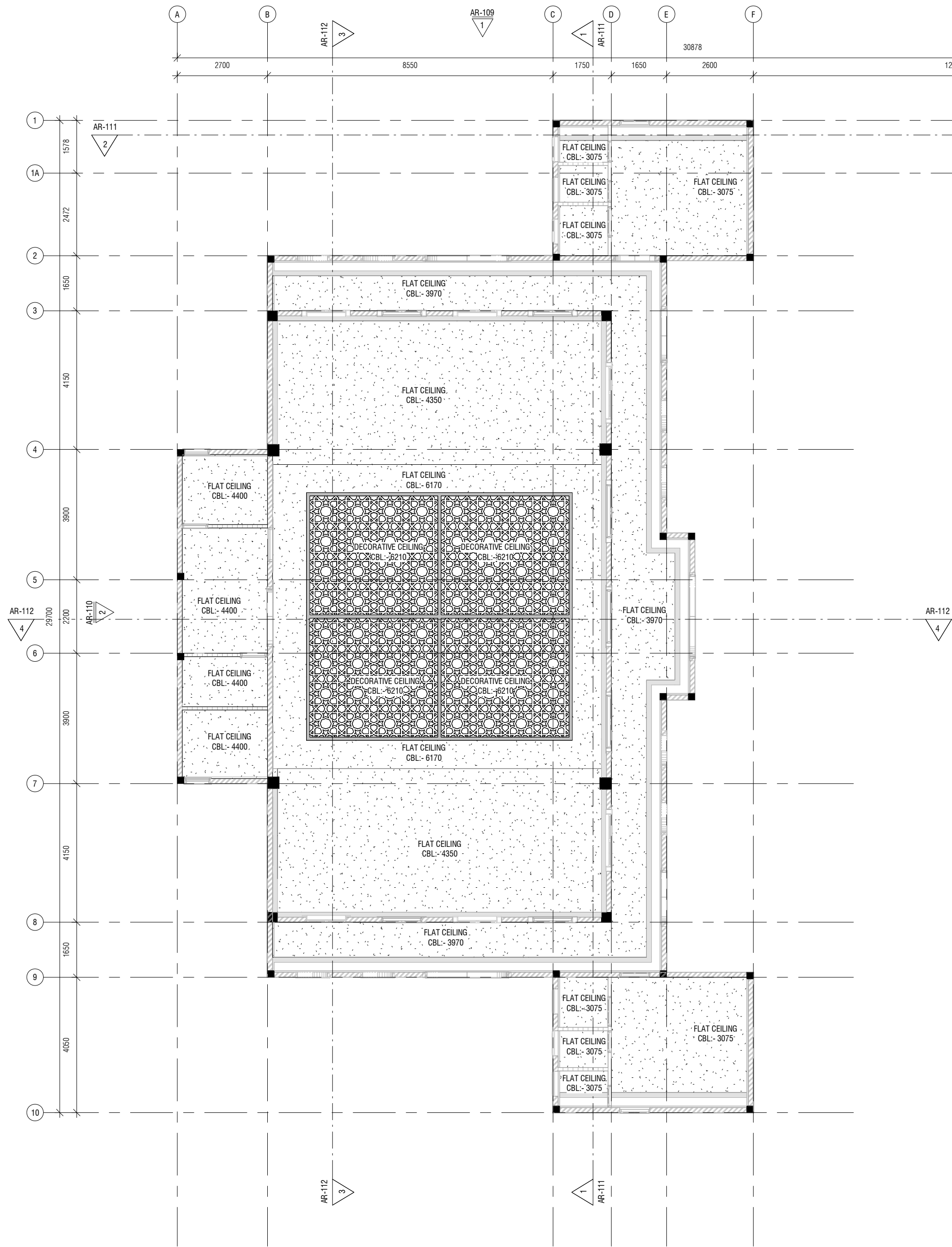
BUILDING/STRUCTURE NO.	ISSUE DATE
	27/06/24

DRAWING TITLES

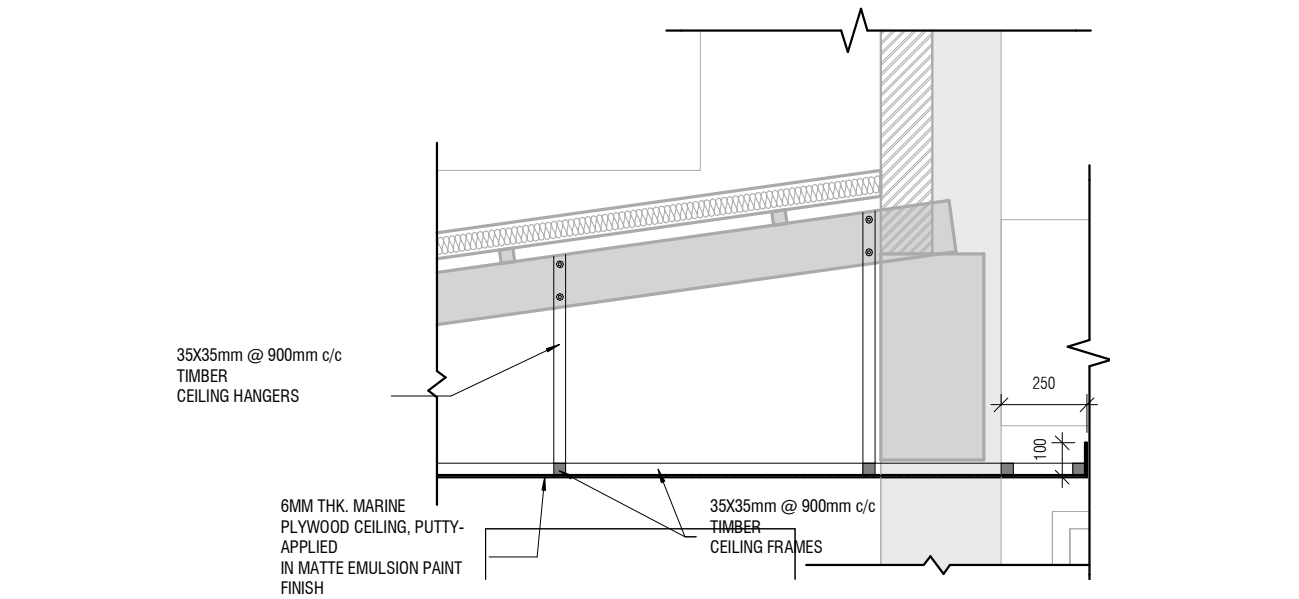
ROOF APEX LEVEL ROOF PLAN

SHEET SIZE	A2	SCALE	1 : 100
SHEET NO.	AR-106		

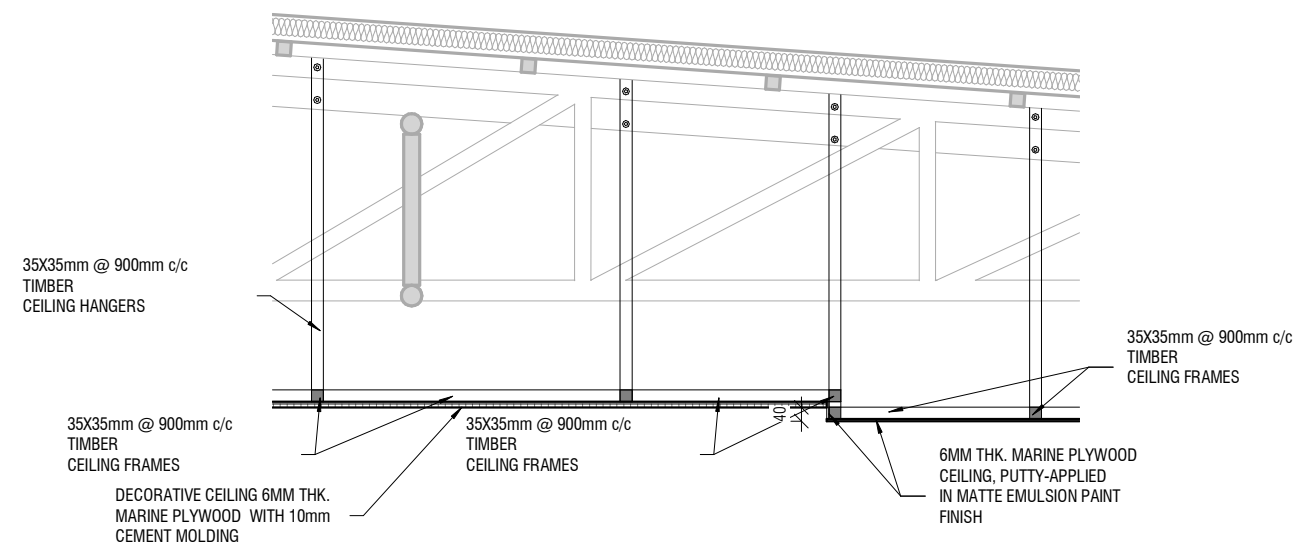
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REFLECTED CEILING PLAN
1 : 100



TYPICAL CEILING FLAT FIXING DETAIL
1 : 20



TYPICAL DECORATIVE CEILING FIXING DETAIL
1 : 20

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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT Ismail Rasheed

CIVIL ENGINEER Nadiyah Ali Shareef

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INT. DESIGNER -

INFRA. DESIGNER -

DRAWN BY Asanka Dharmaratna

CHECKED BY Mariyam Irasha Shareef

APPROVED BY

PROJECT NAME
PROPOSED PROTOTYPE MOSQUES MASJID
300 PAX

CLIENT MINISTRY OF ISLAMIC
AFFAIRS

DEVELOPER -

ATOLL -

ISLAND -

LAGOON (GPS COORDINATES) -

ISSUED FOR

DD_DETAIL DESIGN

BUILDING NAME

Mosque for 300 pax

BUILDING/STRUCTURE NO.

ISSUE DATE
27/06/24

DRAWING TITLES

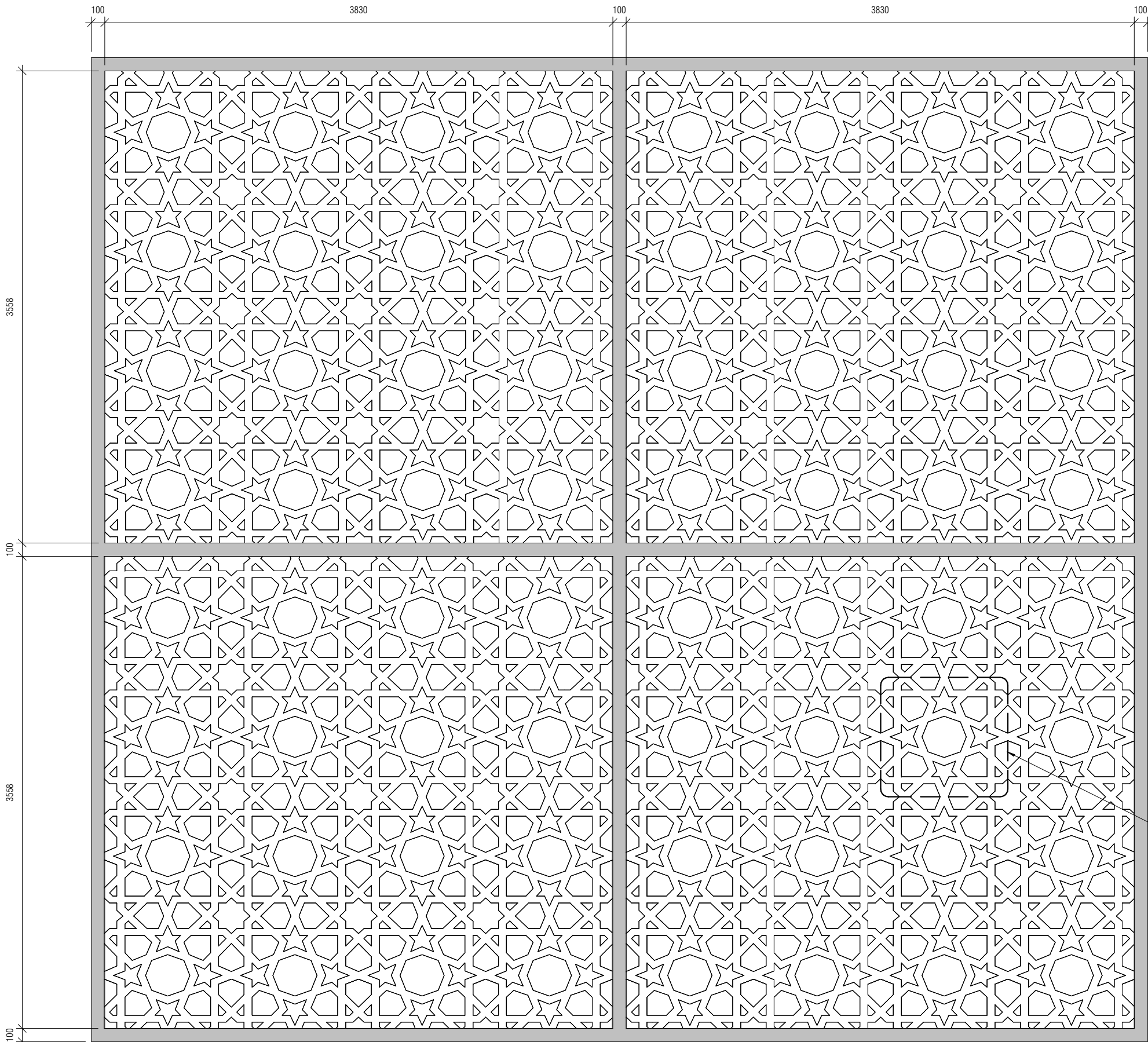
REFLECTED CEILING PLAN

SHEET SIZE A2 SCALE As indicated

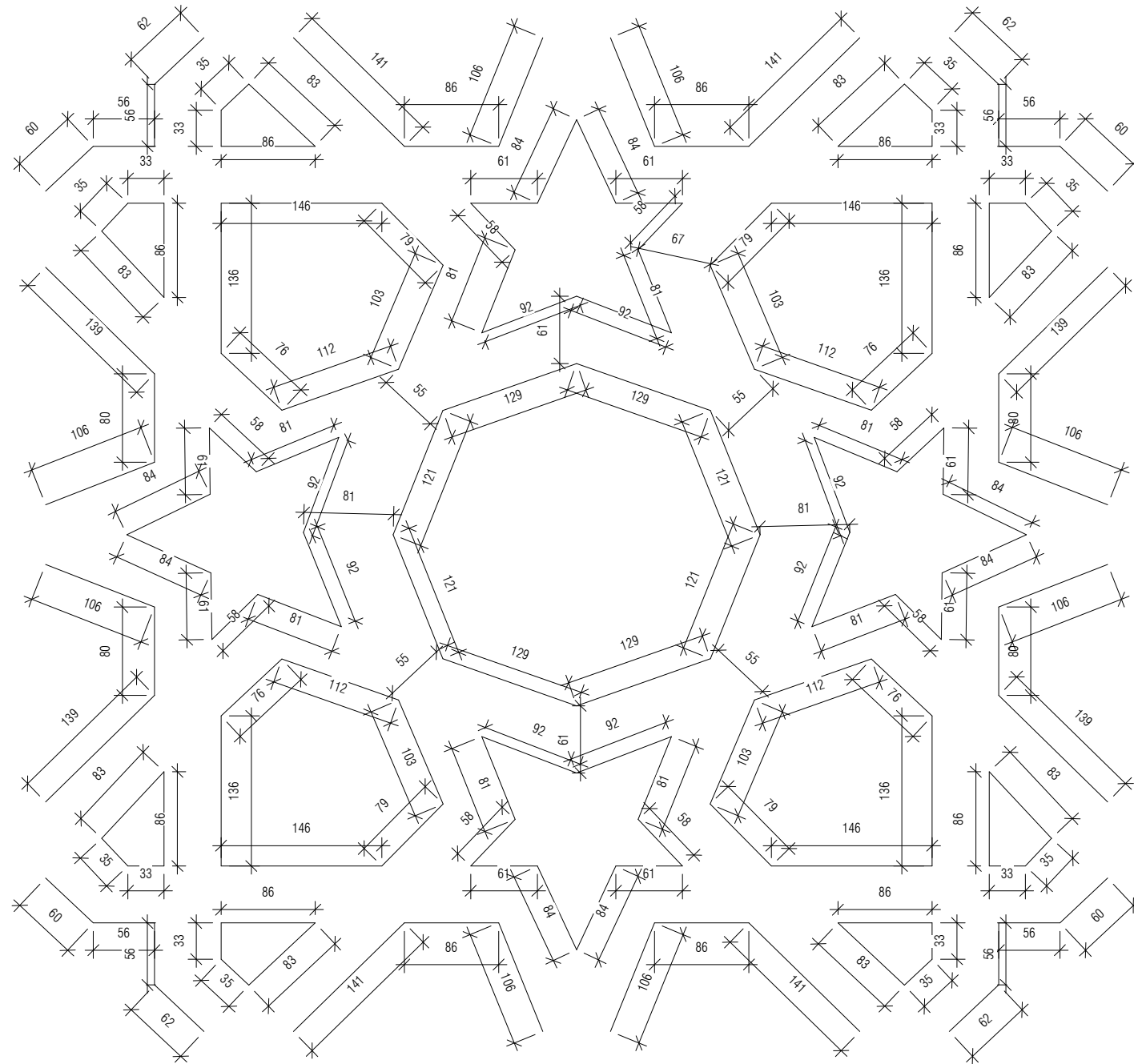
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AR-107

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DECORATIVE CEILING
1 : 30



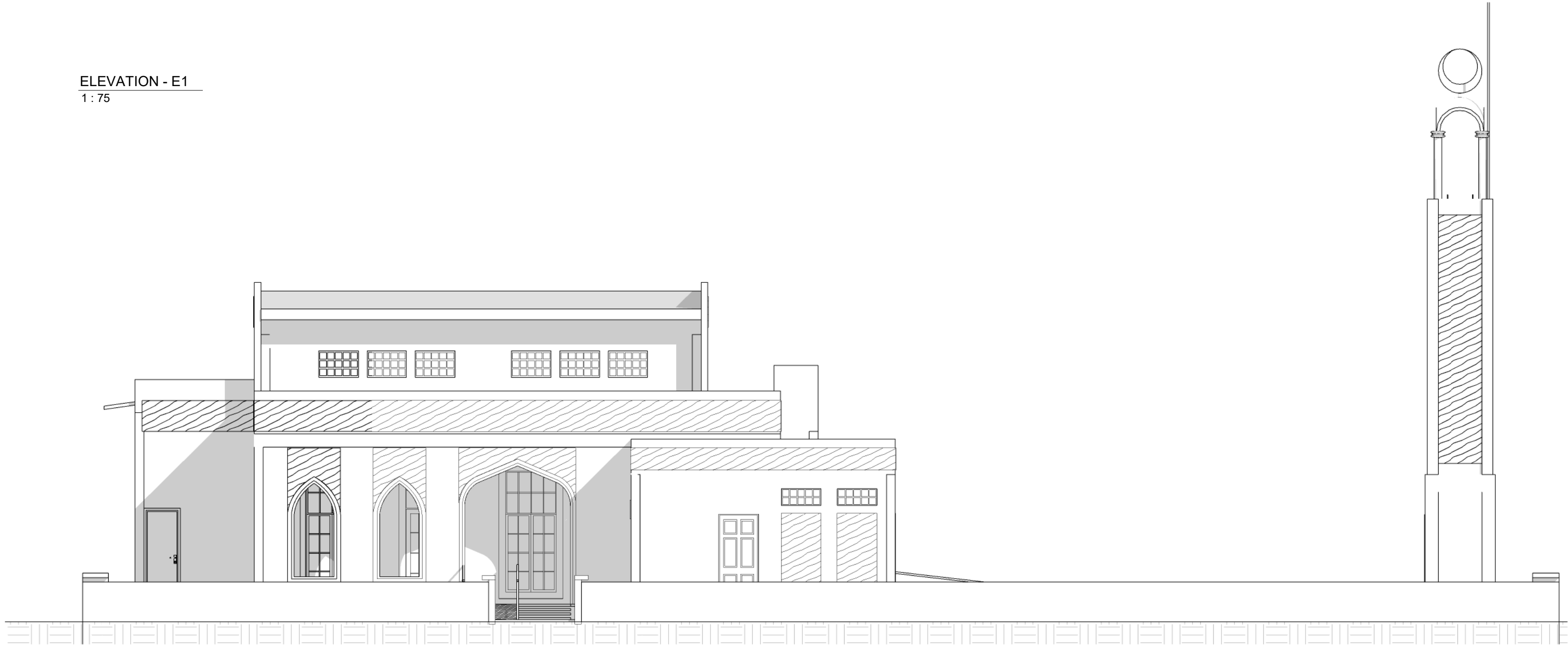
REF PARTITION DETAIL

DECORATIVE CEILING PARTITION DETAIL
1 : 5

GENERAL NOTES				
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REGISTERED LOCAL CONSULTANT				
CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Nadhyaan Ali Shareef			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Asanka Dharmaratna			
CHECKED BY	Mariyam Irasha Shareef			
APPROVED BY				
PROJECT NAME				
PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX				
CLIENT	MINISTRY OF ISLAMIC AFFAIRS			
DEVELOPER	-			
TOLL	---			
ISLAND	---			
LAGOON (GPS COORDINATES)	-			
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 300 pax				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		27/06/24		
DRAWING TITLES				
DECORATIVE CEILING PATTERN DETAILS				
SHEET SIZE	A2	SCALE	As indicated	
SHEET NO.				
AR-108				
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ELEVATION - E1
1 : 75



ELEVATION - E2
1 : 75



10mm THK CEMENT RENDER EMBOSS WITH TEXTURED PAINT
FINISH, COLOUR TO BE DETERMINED

GENERAL NOTES

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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	Ismail Rasheed
CIVIL ENGINEER	Nadhyaan Ali Shareef
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Asanka Dharmarathna
CHECKED BY	Mariyam Irasha Shareef
APPROVED BY	

PROJECT NAME

PROPOSED PROTOTYPE MOSQUES MASJID
300 PAX

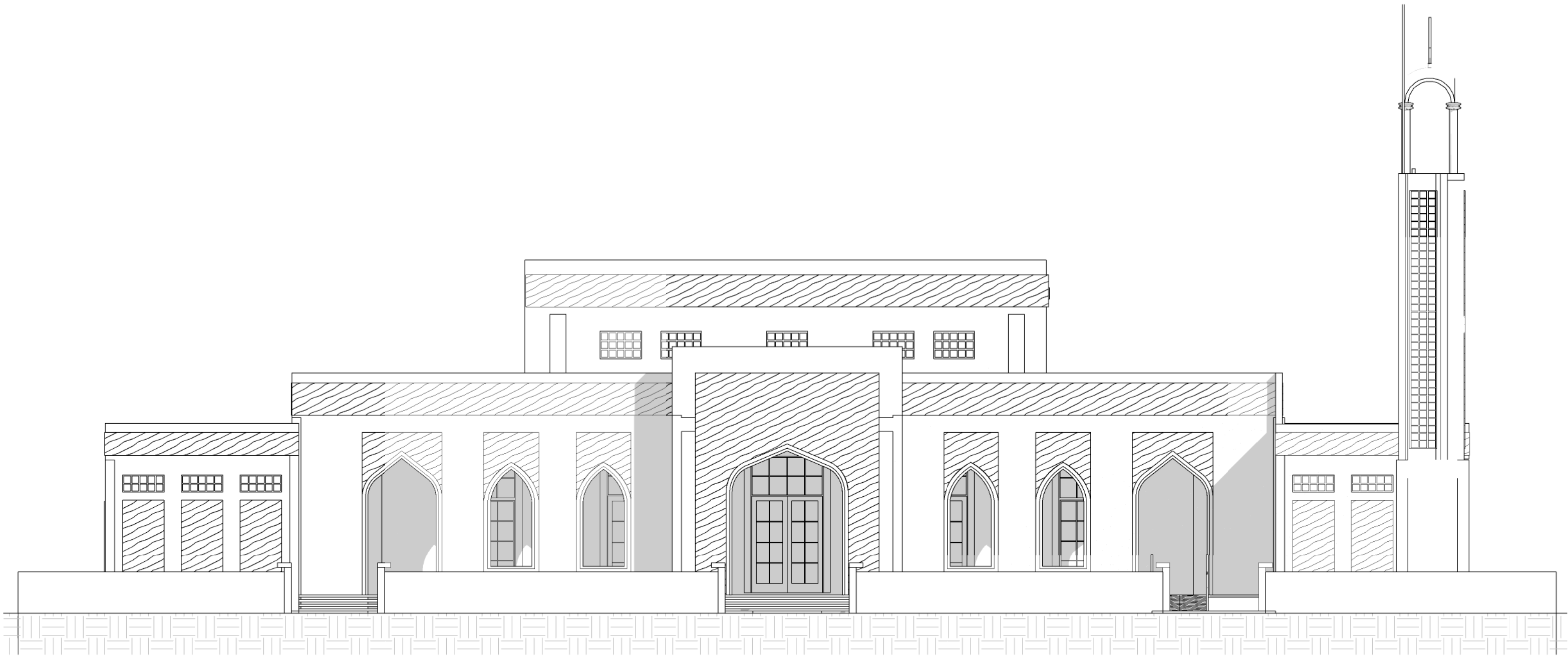
CLIENT	MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER	-
ATOLL	---
ISLAND	---
LAGOON (GPS COORDINATES)	-
ISSUED FOR	DD_DETAIL DESIGN
BUILDING NAME	Mosque for 300 pax
BUILDING/STRUCTURE NO.	ISSUE DATE 27/06/24

DRAWING TITLES

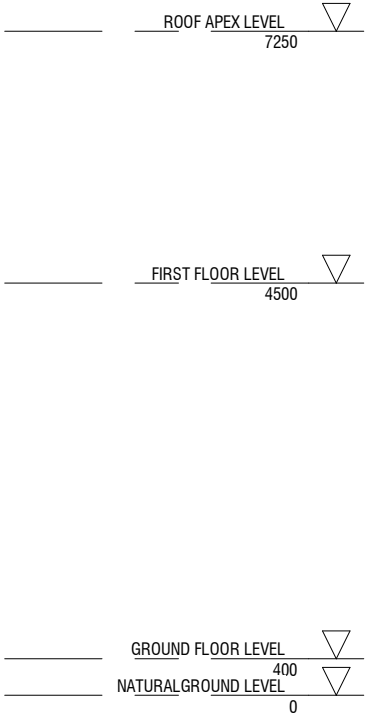
ELEVATION 01

SHEET SIZE	A2	SCALE	As indicated
SHEET NO. AR-109			

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Elevation E3
1 : 75



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ARCHITECT	Ismail Rasheed
CIVIL ENGINEER	Nadhyaan Ali Shareef
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Asanka Dharmaratna
CHECKED BY	Mariyam Irasha Shareef
APPROVED BY	

PROJECT NAME
**PROPOSED PROTOTYPE MOSQUES MASJID
300 PAX**

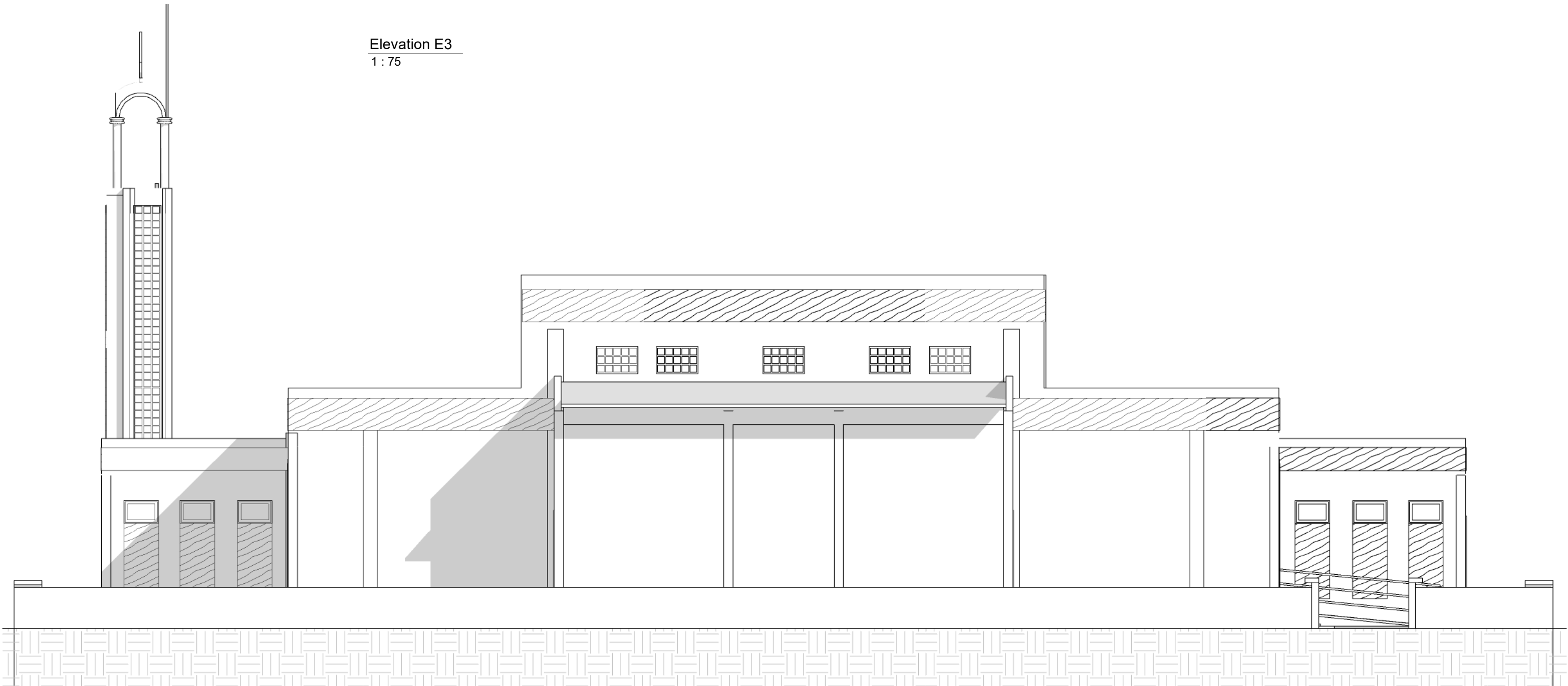
CLIENT	MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER	-
ATOLL	---
ISLAND	---
LAGOON (GPS COORDINATES)	-
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BUILDING NAME Mosque for 300 pax	
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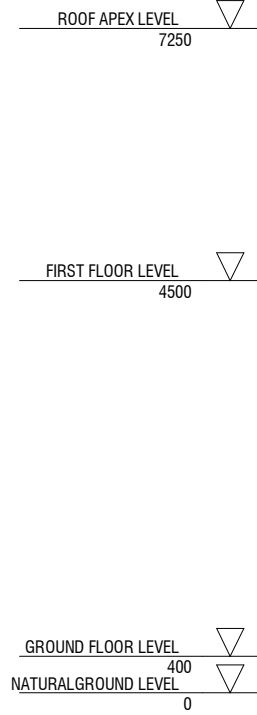
DRAWING TITLES
ELEVATION 02

SHEET SIZE	A2	SCALE	As indicated
SHEET NO.	AR-110		

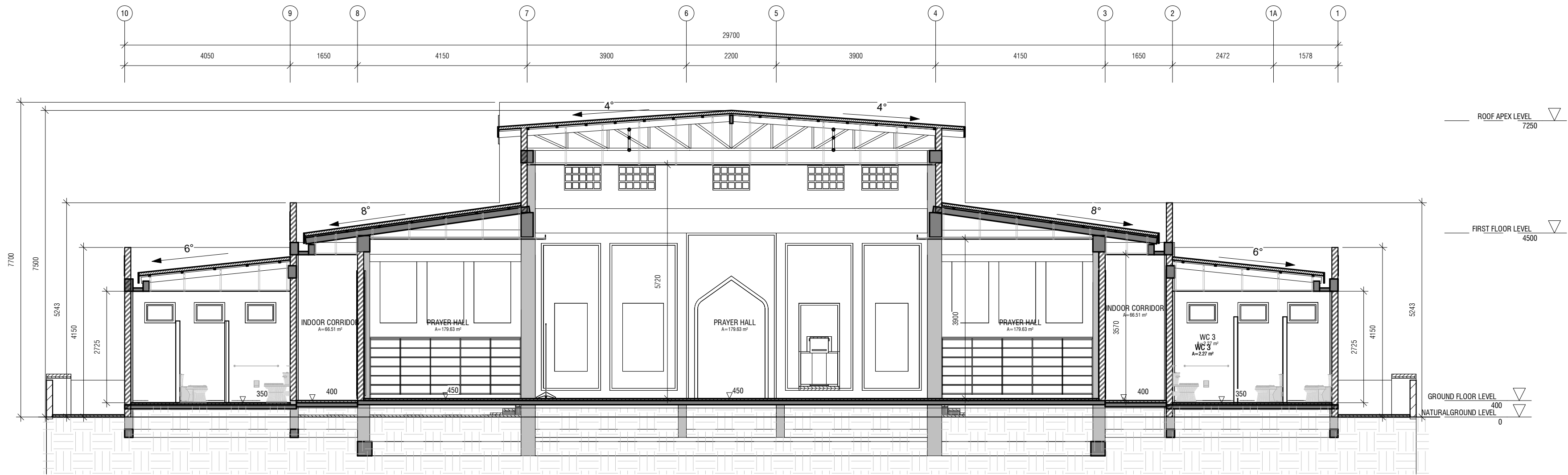
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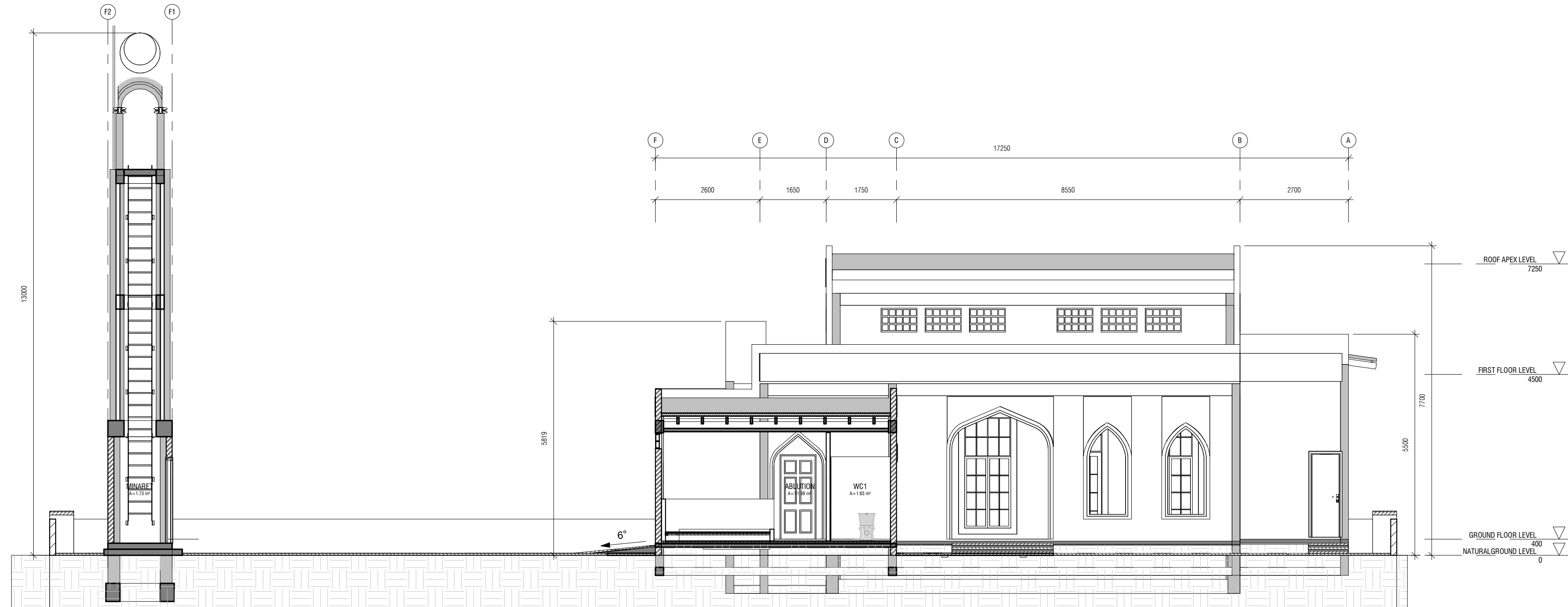
Elevation E5
1 : 75



10mm THK CEMENT RENDER EMBOSS WITH TEXTURED PAINT
FINISH, COLOUR TO BE DETERMINED



SECTION 01
1 : 75



SECTION 02
1 : 75

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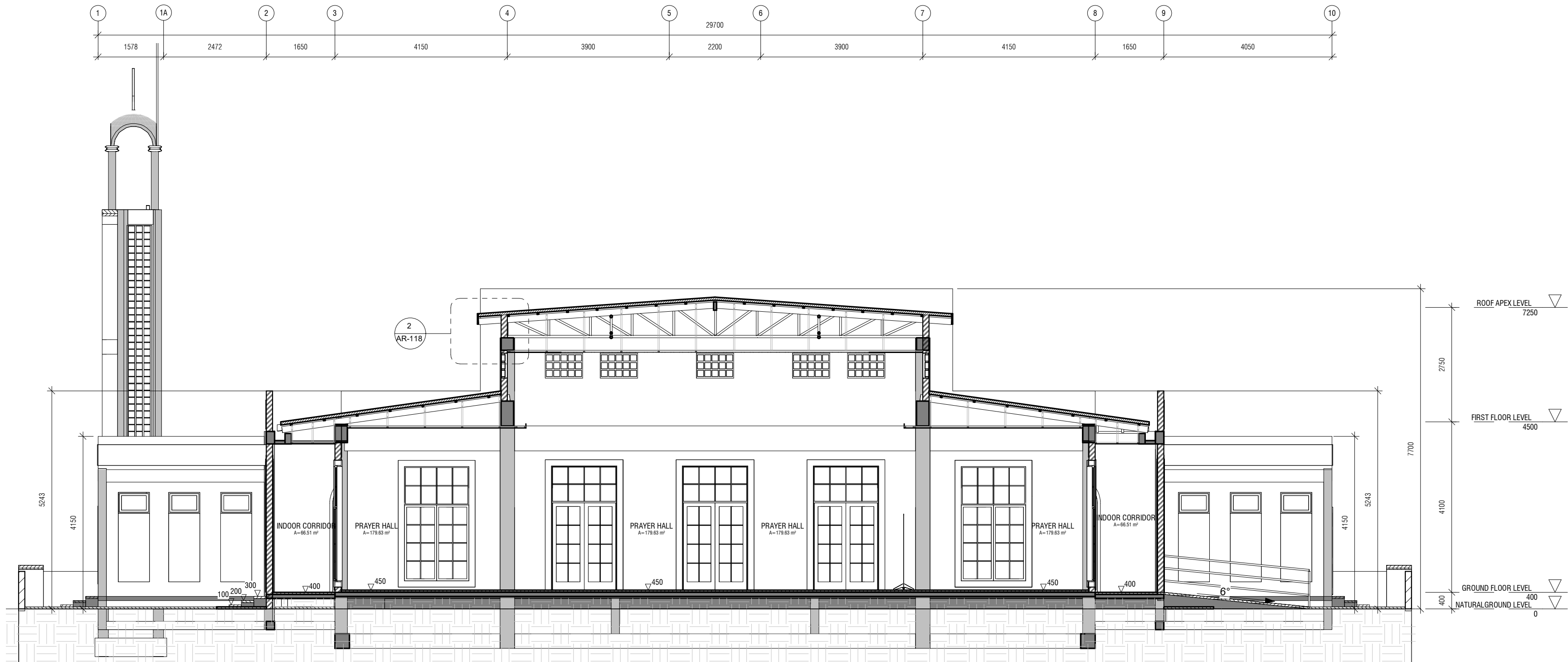
ARCHITECT	Ismail Rasheed
CIVIL ENGINEER	Nadhyaan Ali Shareef
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Asanka Dharmaratna
CHECKED BY	Mariyam Irasha Shareef
APPROVED BY	

PROJECT NAME
PROPOSED PROTOTYPE MOSQUES MASJID
300 PAX

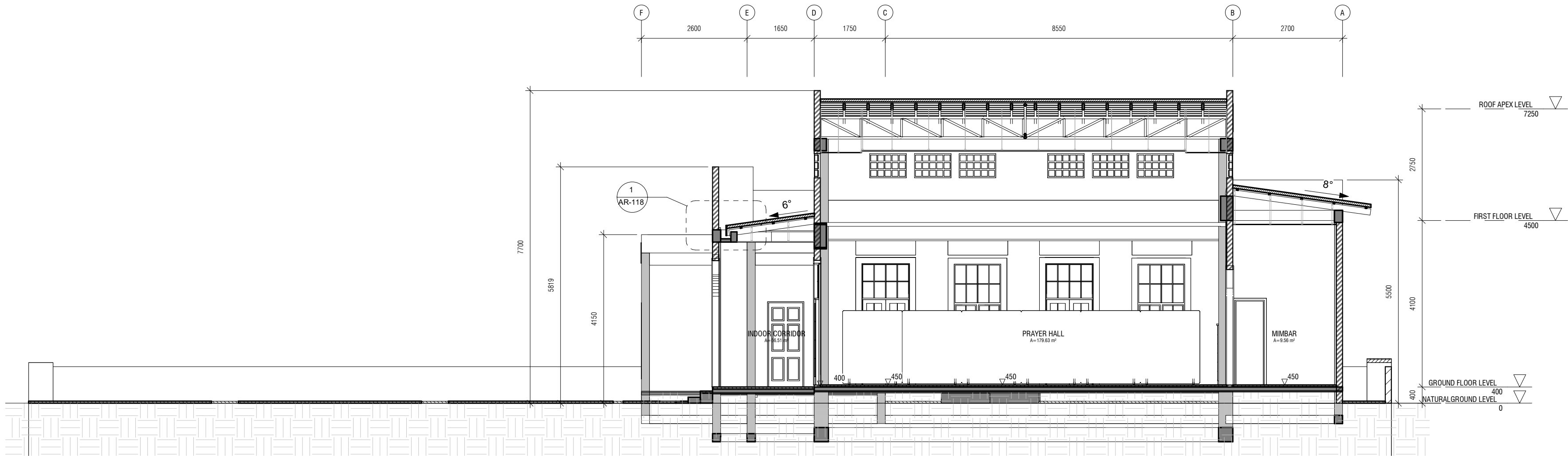
CLIENT	MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER	-
ATOLL	-
ISLAND	-
LAGOON (GPS COORDINATES)	-
ISSUED FOR	DD_DETAIL DESIGN
BUILDING NAME	Mosque for 300 pax
BUILDING/STRUCTURE NO.	ISSUE DATE 27/06/24
DRAWING TITLES	SECTION 01

SHEET SIZE	A2	SCALE	1 : 75
SHEET NO.	AR-111		

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Section 3
1:75



Section 4
1:75

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DESIGN CONSULTANT								
REGISTERED LOCAL CONSULTANT								
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CONSULTANT PROJECT NO. R24002MIA								
ARCHITECT	Ismail Rasheed							
CIVIL ENGINEER	Nadhyaan Ali Shareef							
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I							
INT. DESIGNER	-							
INFRA. DESIGNER	-							
DRAWN BY	Asanka Dharmaratna							
CHECKED BY	Mariyam Irasha Shareef							
APPROVED BY								
PROJECT NAME								
PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX								
CLIENT MINISTRY OF ISLAMIC AFFAIRS								
DEVELOPER -								
TOLL -								
ISLAND -								
LAGOON (GPS COORDINATES) -								
ISSUED FOR DD_DETAIL DESIGN								
BUILDING NAME Mosque for 300 pax								
BUILDING/STRUCTURE NO.		ISSUE DATE 27/06/24						
DRAWING TITLES								
SECTION 02								
SHEET SIZE A2		SCALE 1 : 75						
SHEET NO. AR-112								
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REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY

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LEAD CONSULTANT

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CONSULTANT PROJECT NO.

R24002MIA

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MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Asanka Dharmaratna
CHECKED BY	Mariyam Irasha Shareef
APPROVED BY	

PROJECT NAME

PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX

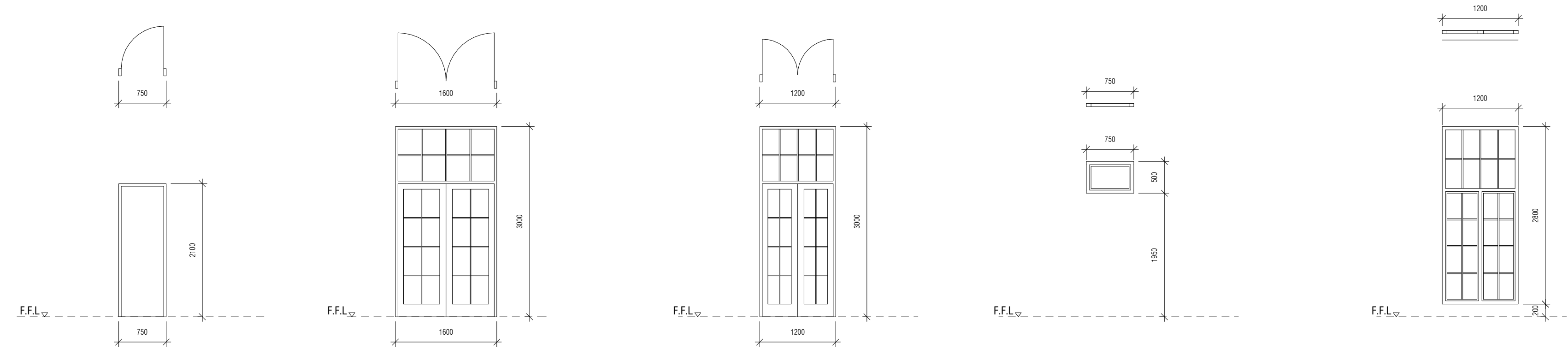
CLIENT	MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER	-
ATOLL	---
ISLAND	---
LAGOON (GPS COORDINATES)	-
ISSUED FOR	DD_DETAIL DESIGN
BUILDING NAME	Mosque for 300 pax
BUILDING/STRUCTURE NO.	ISSUE DATE 27/06/24

DRAWING TITLES

DOOR & WINDOW 02

SHEET SIZE	A2	SCALE	1 : 50
SHEET NO.	AR-114		

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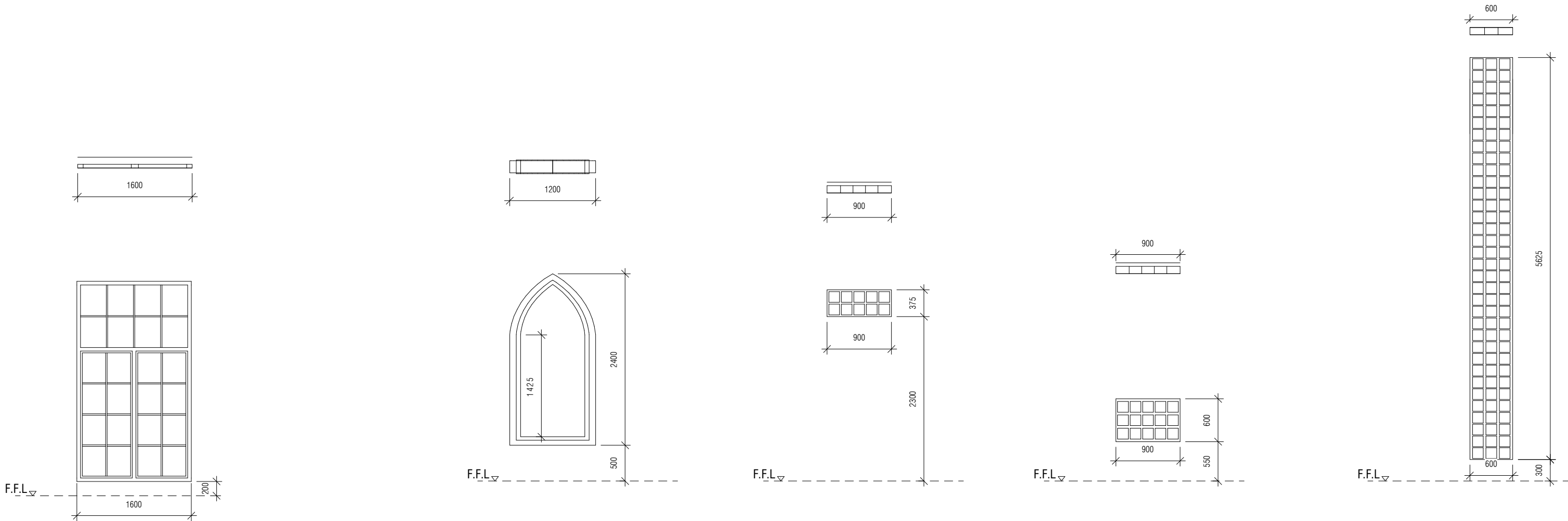
D6	SOLID TIMBER PANEL DOOR
REMARKS	
LOCATION	MINARET
QUANTITY	01
AREA	1.38m²

D7	ALUMINUM FRENCH DOOR
REMARKS	
LOCATION	PRAYER HALL
QUANTITY	03
AREA	3.19m²

D8	ALUMINUM FRENCH DOOR
REMARKS	
LOCATION	PRAYER HALL
QUANTITY	04
AREA	2.35m²

W1	ALUMINUM AWNING WINDOWS
REMARKS	
LOCATION	TOILETS
QUANTITY	06
AREA	0.26m²

W2	FRENCH DOOR WINDOW
REMARKS	
LOCATION	PRAYER HALL
QUANTITY	04
AREA	1.81m²



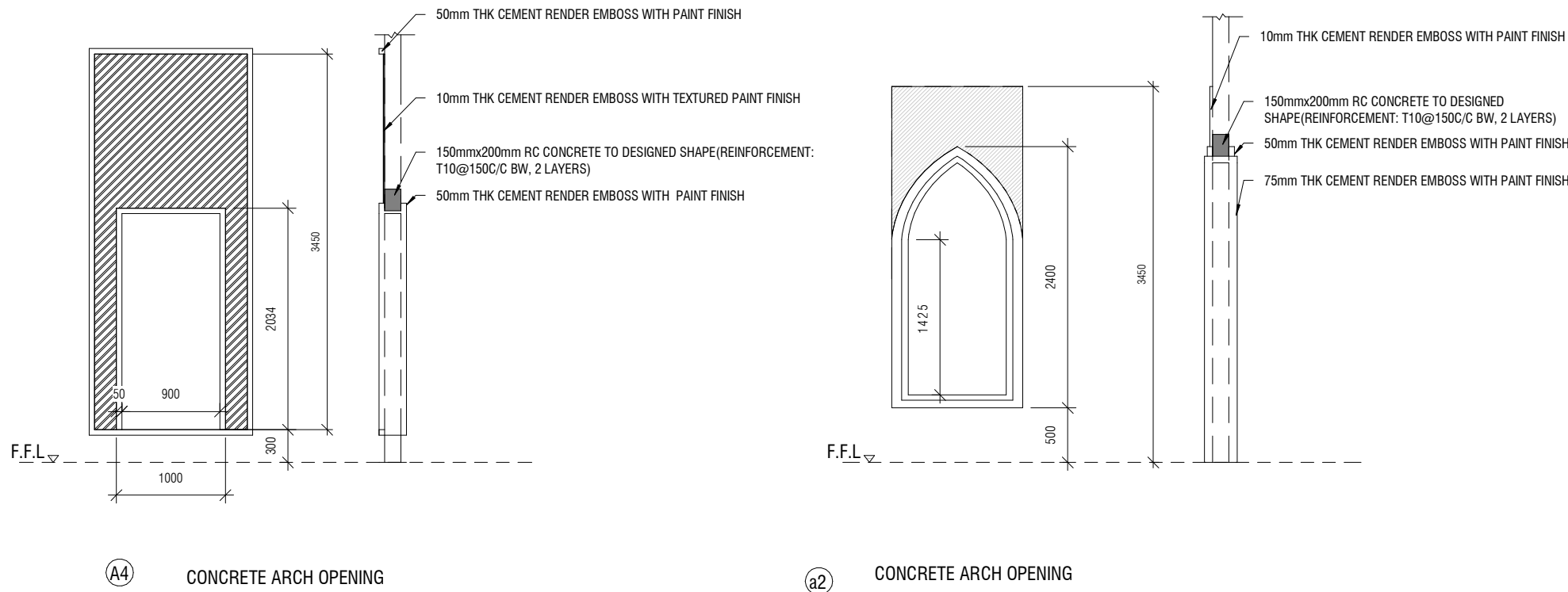
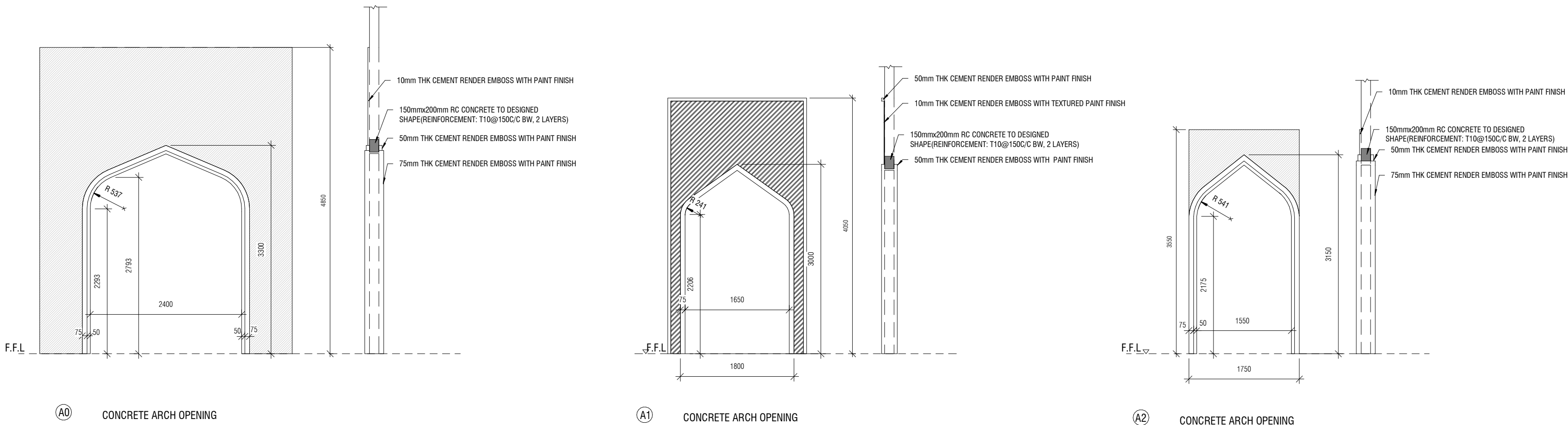
W3	FRENCH DOORL WINDOW
REMARKS	
LOCATION	PRAYER HALL
QUANTITY	02
AREA	2.57m²

a2	CONCRETE ARCH OPENING
REMARKS	
LOCATION	LIVING AREA
QUANTITY	08
AREA	1.71m²

b1	GLASS BLOCK
REMARKS	
LOCATION	ABLUTION
QUANTITY	10
AREA	0.34m²

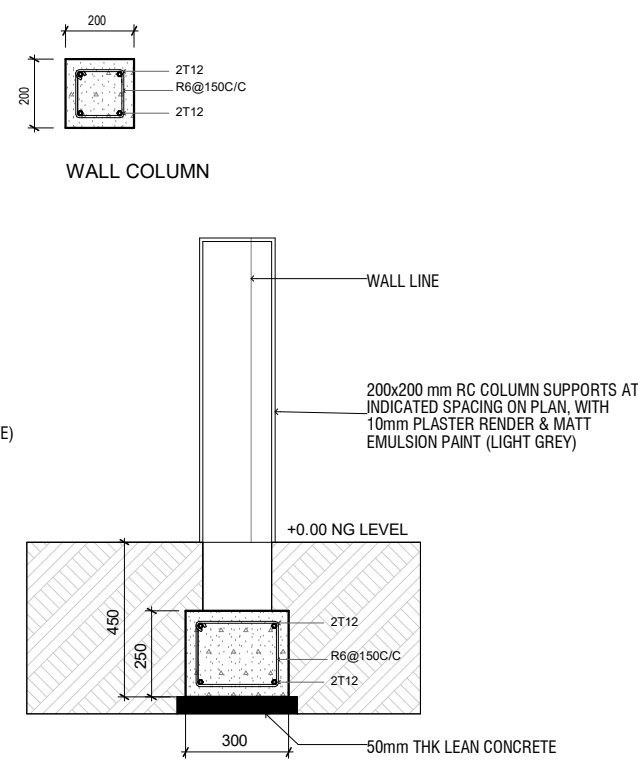
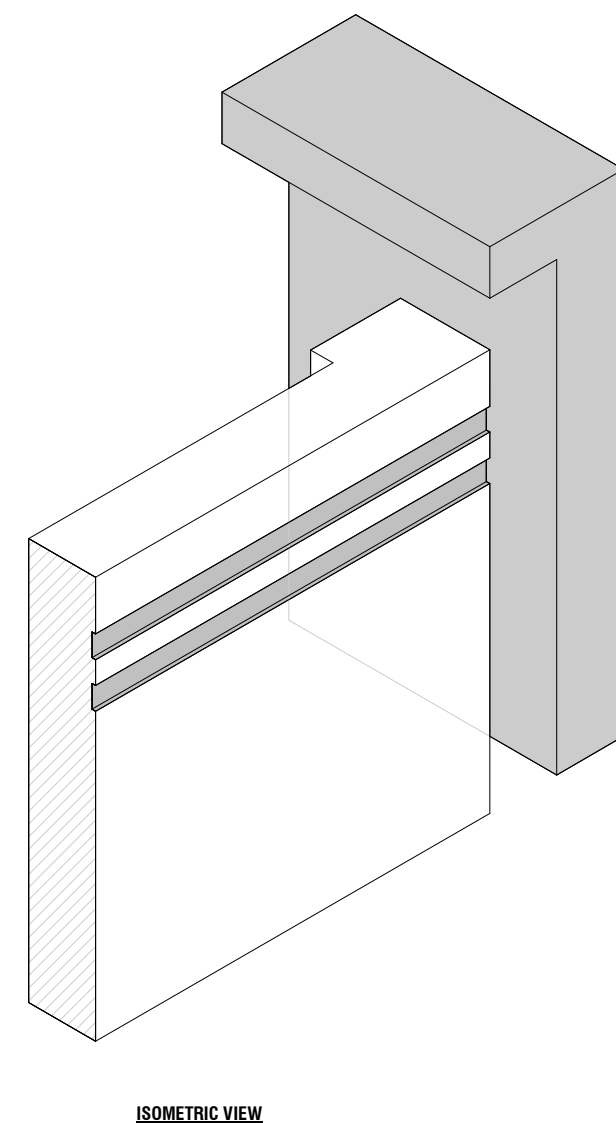
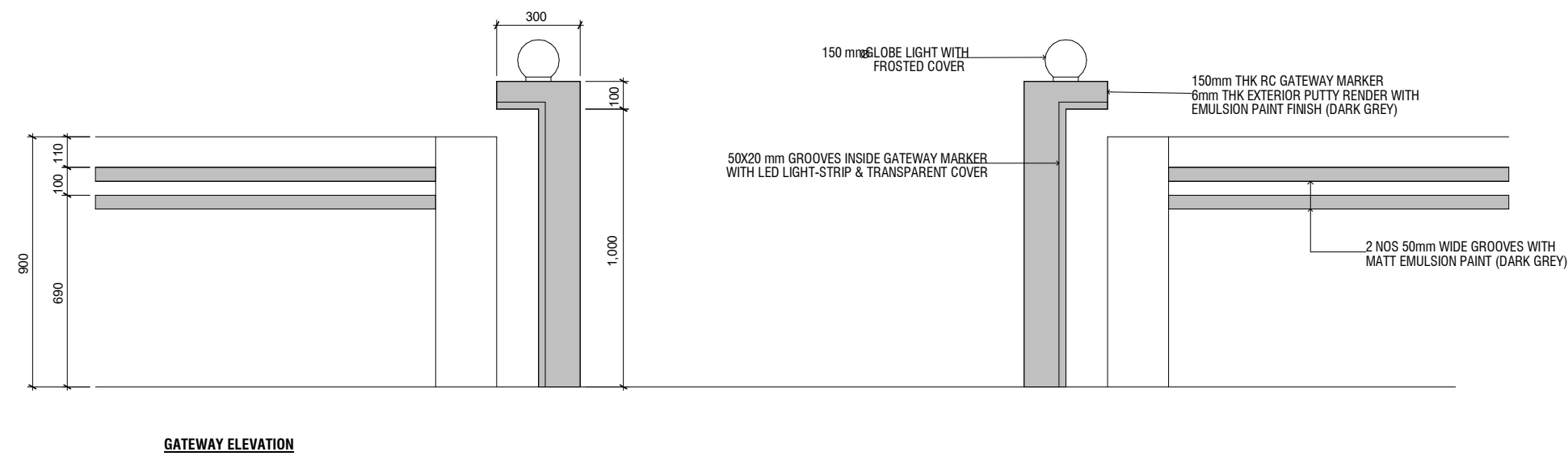
b2	GLASS BLOCK
REMARKS	
LOCATION	PRAYER HALL
QUANTITY	22
AREA	1.60M²

b3	GLASS BLOCK
REMARKS	
LOCATION	MINARET
QUANTITY	02
AREA	2.30m²




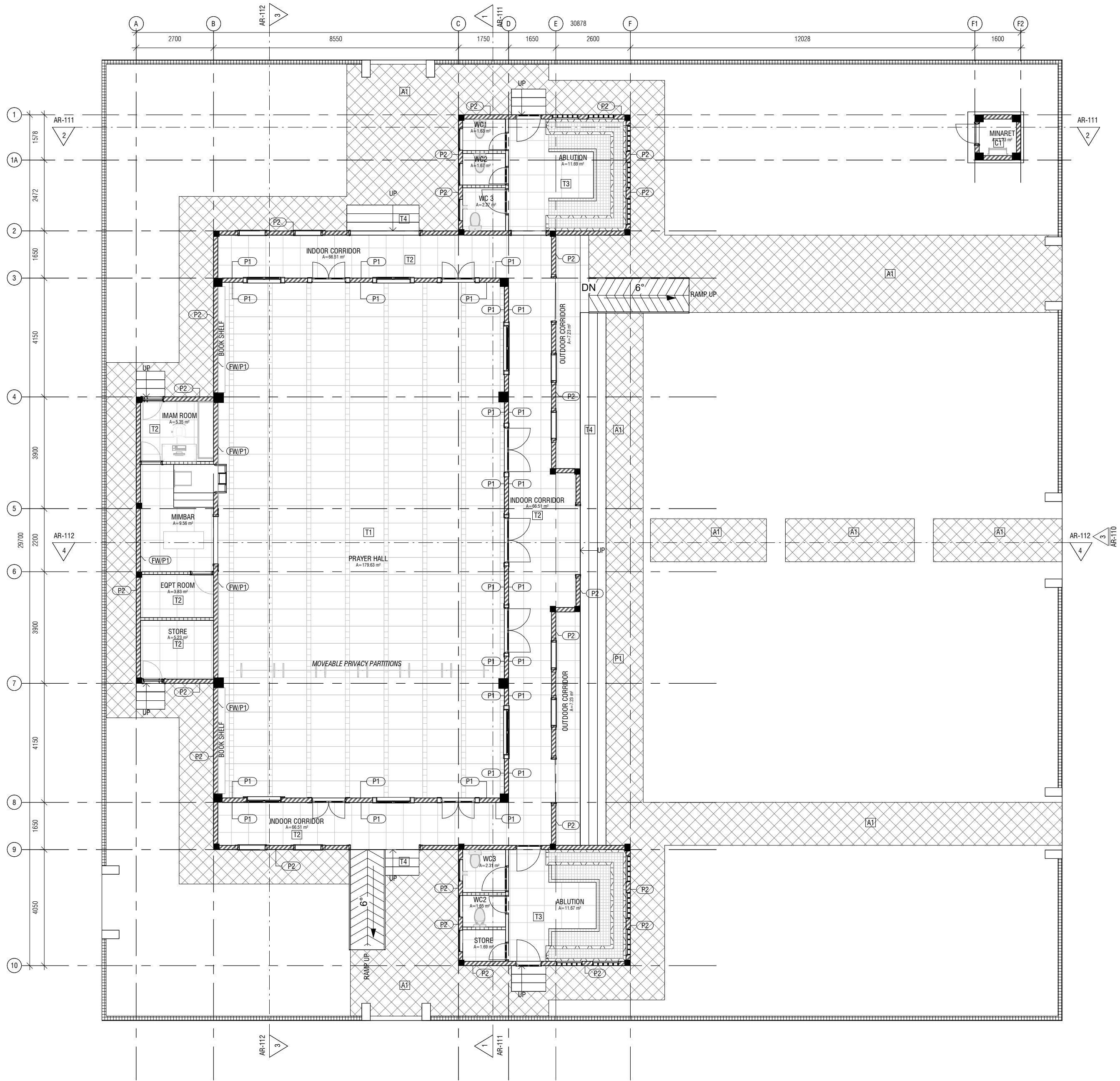
Arches Details
1 : 50

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				
-				
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	Nadhyaan Ali Shareef			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Asanka Dharmaratna			
CHECKED BY	Mariyam Irasha Shareef			
APPROVED BY				
PROJECT NAME				
PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX				
CLIENT MINISTRY OF ISLAMIC AFFAIRS				
DEVELOPER -				
ATOLL -				
ISLAND -				
LAGOON (GPS COORDINATES) -				
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 300 pax				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		27/06/24		
DRAWING TITLES				
ARCHES DETAILS				
SHEET SIZE A2 SCALE 1 : 50				
SHEET NO.				
AR-115				
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COLUMN SECTION

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				
<div><p>RIYAN PRIVATE LIMITED www.riyan.com.mv</p></div>				
CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Nadhyaan Ali Shareef			
MEP ENGINEER	M.K.B, C.O.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	—			
DRAWN BY	Asanka Dharmarathna			
CHECKED BY	Mariyam Isha Shareef			
APPROVED BY				
PROJECT NAME				
PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX				
CLIENT		MINISTRY OF ISLAMIC AFFAIRS		
DEVELOPER		-		
ATOLL		—		
ISLAND		—		
LAGOON (GPS COORDINATES)		-		
ISSUED FOR				
DD_DETAIL DESIGN				
BUILDING NAME				
Mosque for 300 pax				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		27/06/24		
DRAWING TITLES				
BOUNDARY WALL DETAILS				
SHEET SIZE		A2	SCALE 1 : 20	
SHEET NO.				
AR-116				
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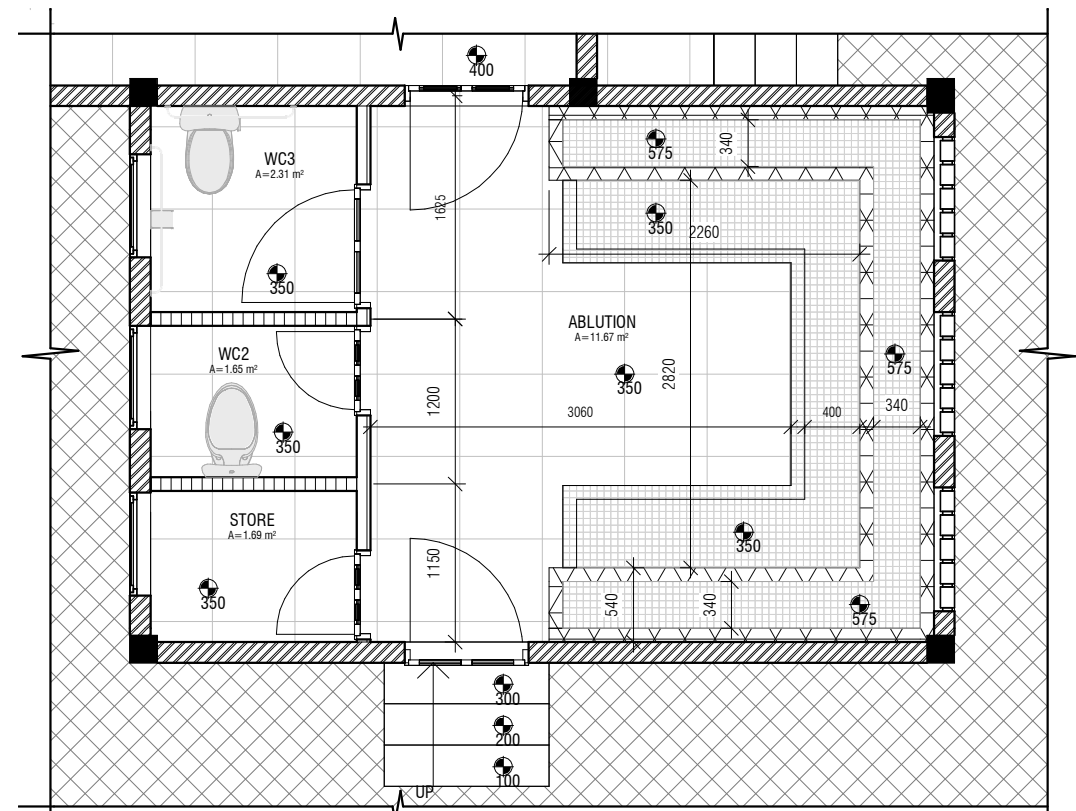
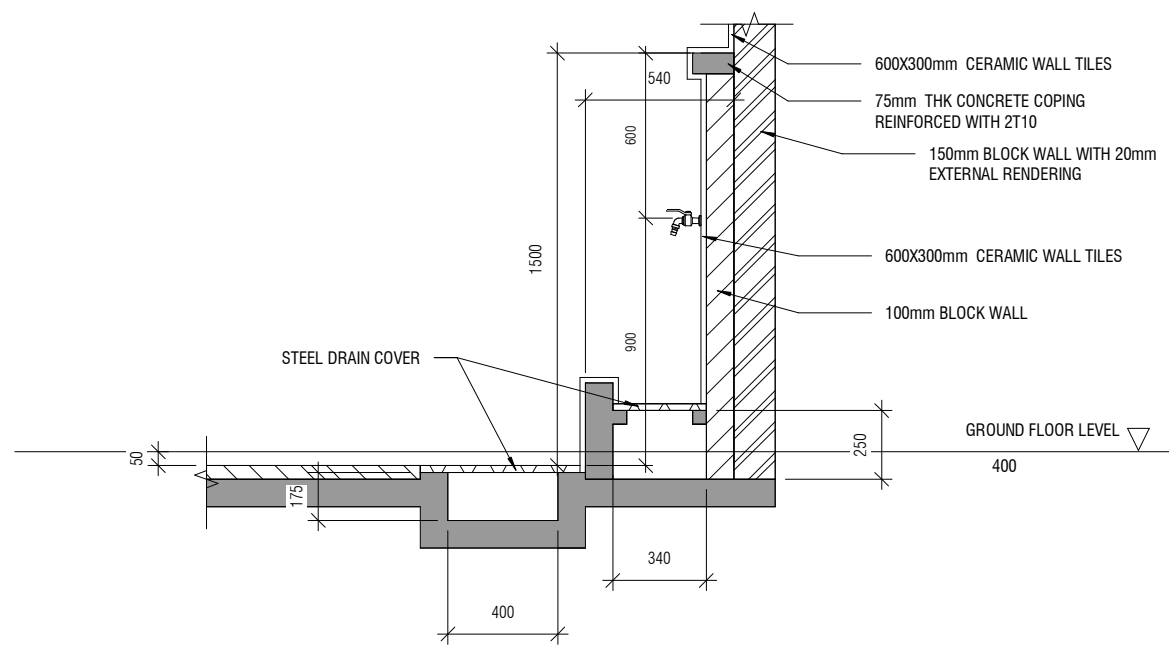
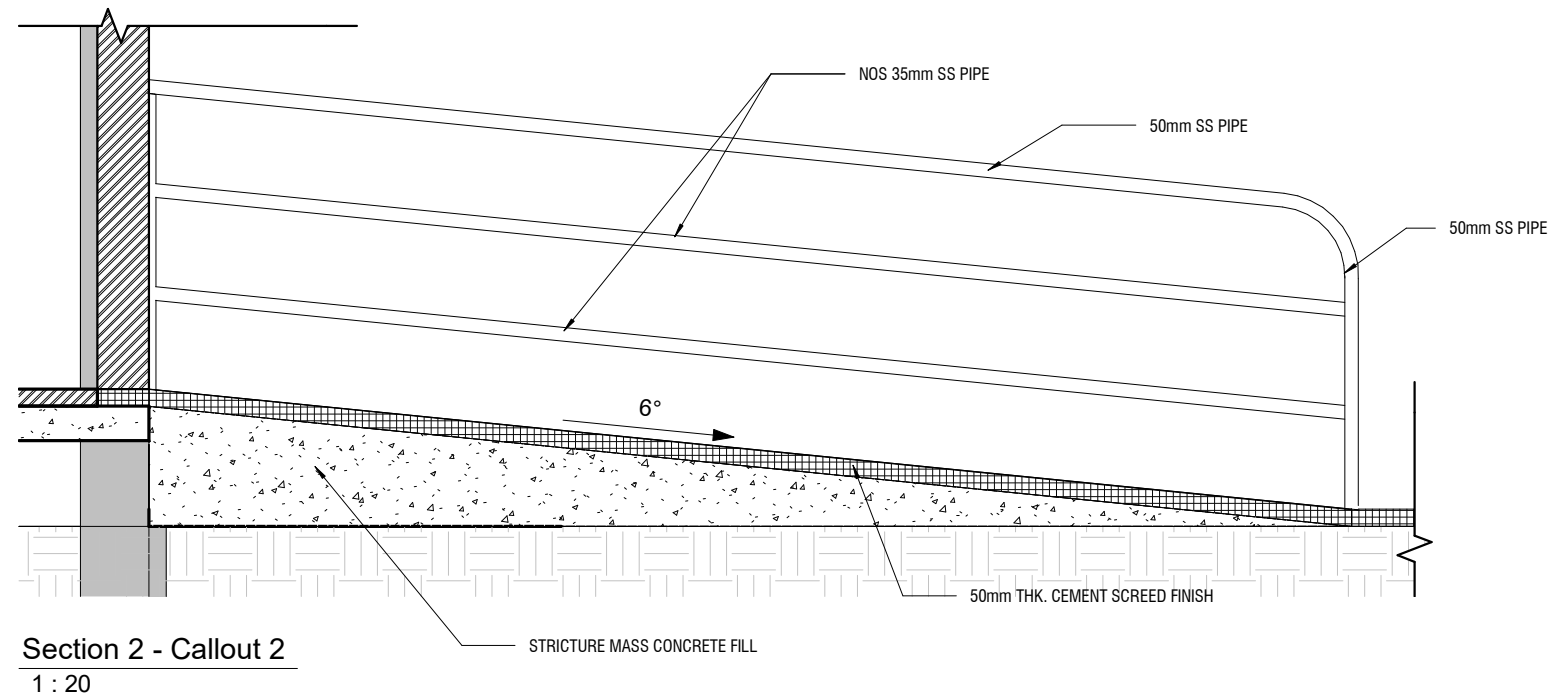
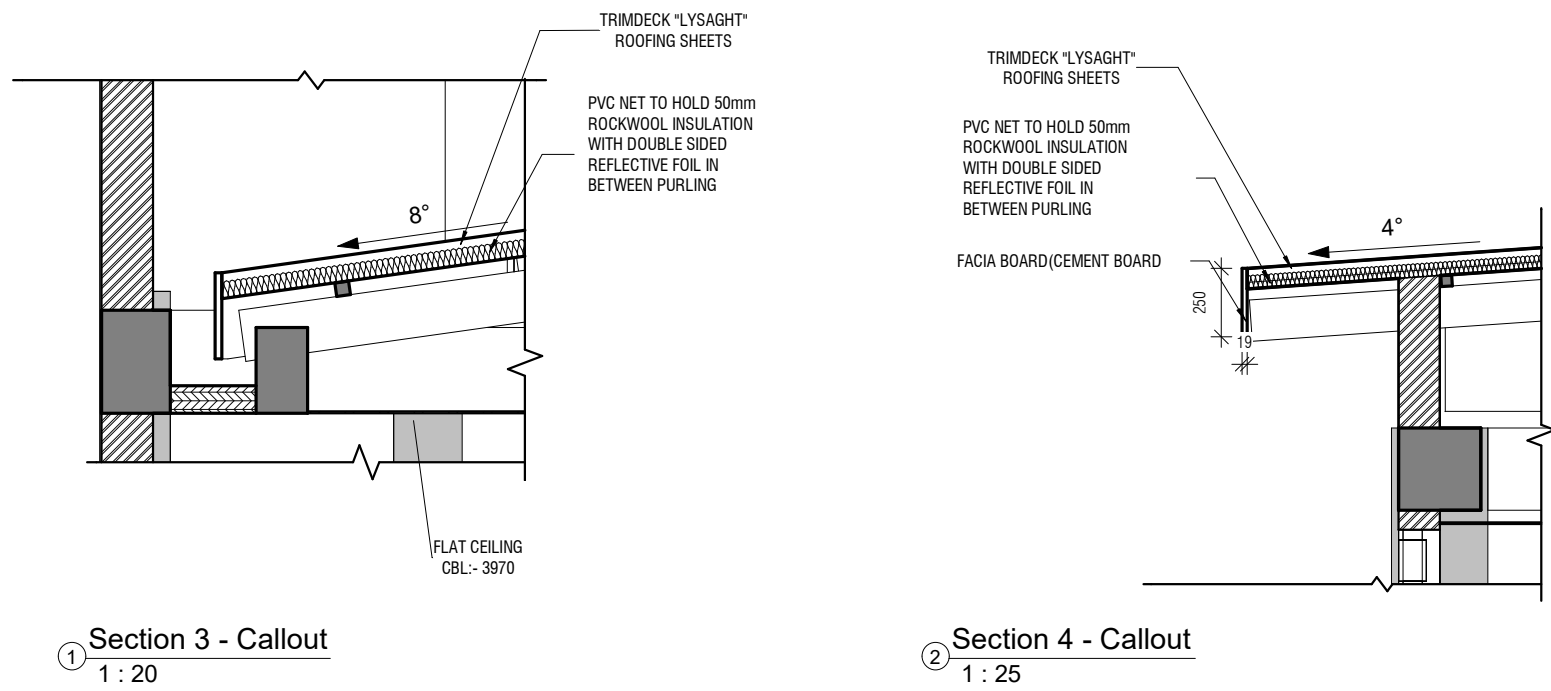


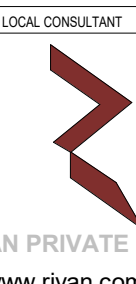
MATERIAL FINISHES

1 : 100

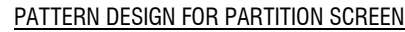
- 150mm THK. MASONRY BLOCK WALL
WITH 20mm THK. RENDERING
- 100mm THK. MASONRY BLOCK WALL
WITH 25mm THK. RENDERING
- 100mm THK. MASONRY BLOCK WALL
WITH 25mm THK. RENDERING
- 150mm THK SOLID BLOCK MASONRY WITH
25mm PLASTER RENDER AND MATT
EMULSION PAINT FINISH (LIGHT GREY WHITE) HEIGHT=900mm
- T1 1200X600mm FLOOR TILES
WITH 150X200mm LINE TILES
- T2 600X600 mm HOMOGENOUS
TEXTURED FLOOR TILES
- T2 300X600 mm HOMOGENOUS
NON-SLIP FLOOR TILES
- A1 CEMENT BLOCK PAVED AREA
- D1 GROUNDED SMOOTH CEMENT
FINISH WITH FLOOR PAINT
- P1 GROUNDED SMOOTH CEMENT
FINISH WITH FLOOR PAINT
- P2 WEATHERSHIELD SOLAR REFLECTIVE
EXTERIOR PAINT
- FW1 FEATURED WALL WITH VERSES
FROM QUR-AAN

GENERAL NOTES				
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REVISIONS				
REV.NO	REV.DATE	REV.DESCRPTION	REV.BY	CHK.BY
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	Nadhyaan Ali Shareef			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Asanka Dharmaratna			
CHECKED BY	Mariyam Irasha Shareef			
APPROVED BY				
PROJECT NAME				
PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX				
CLIENT	MINISTRY OF ISLAMIC AFFAIRS			
DEVELOPER	-			
ATOLL	---			
ISLAND	---			
LAGOON (GPS COORDINATES)	-			
ISSUED FOR				
DD_DETAIL DESIGN				
PROJECT NAME				
Mosque for 300 pax				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		27/06/24		
DRAWING TITLES				
MATERIAL FINISHES				
SHEET SIZE		A2	SCALE	As indicated
SHEET NO.				
AR-117				
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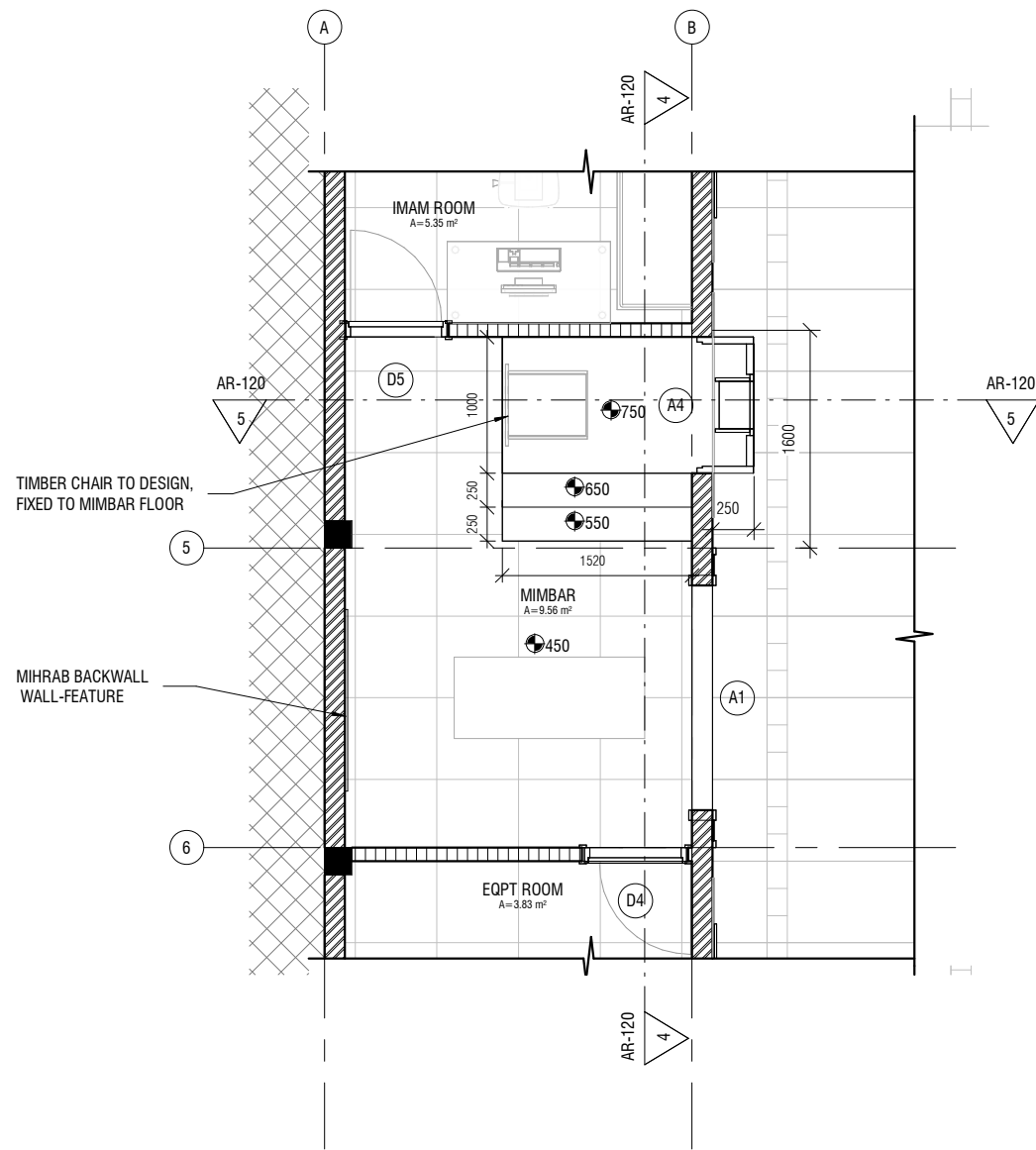


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CONSULTANT				
LEAD CONSULTANT				
-				
DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
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CONSULTANT PROJECT NO. R24002MIA				
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MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Asanka Dharmarathna			
CHECKED BY	Mariyam irasha Shareef			
APPROVED BY				
PROJECT NAME				
PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX				
CLIENT		MINISTRY OF ISLAMIC AFFAIRS		
DEVELOPER		-		
ATOLL		---		
ISLAND		---		
LAGOON (GPS COORDINATES)		-		
ISSUED FOR				
DD_DETAIL DESIGN				
PROJECT NAME				
Mosque for 300 pax				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		27/06/24		
DRAWING TITLES				
ABLUATION AREA AND DETAILS				
SHEET SIZE		A2	SCALE	As indicated
SHEET NO.				
AR-118				

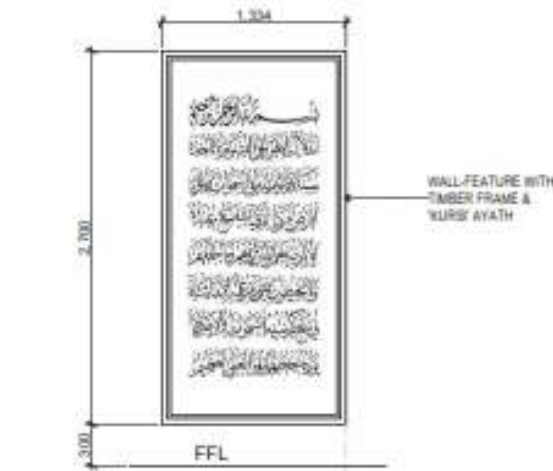
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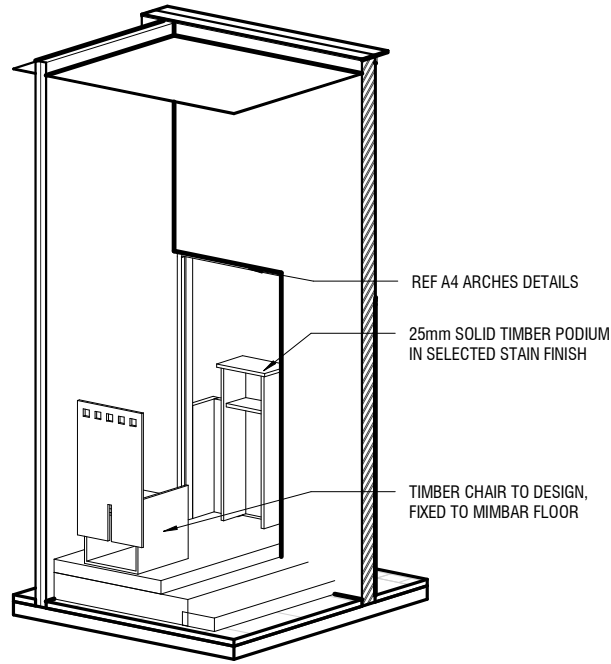
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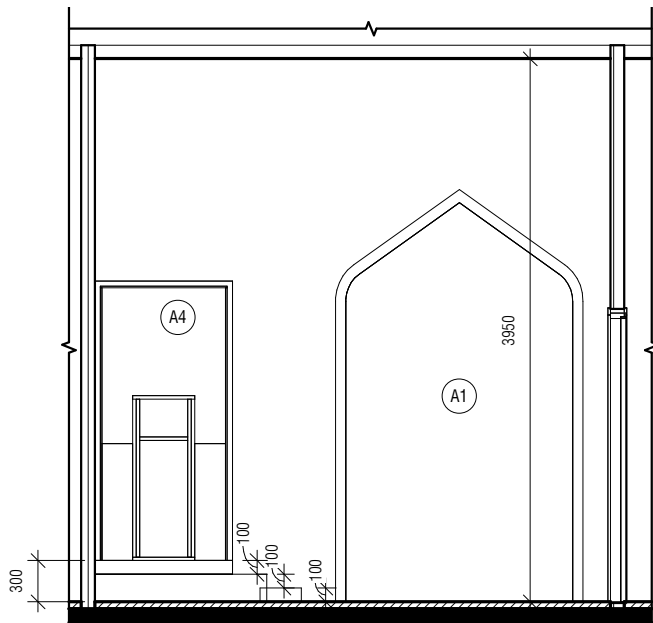
GROUND FLOOR PLAN
1 : 50



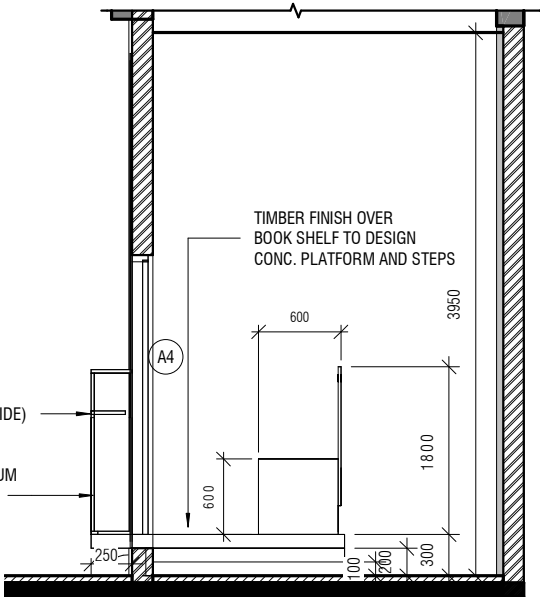
KURSI' AYATH
NTS



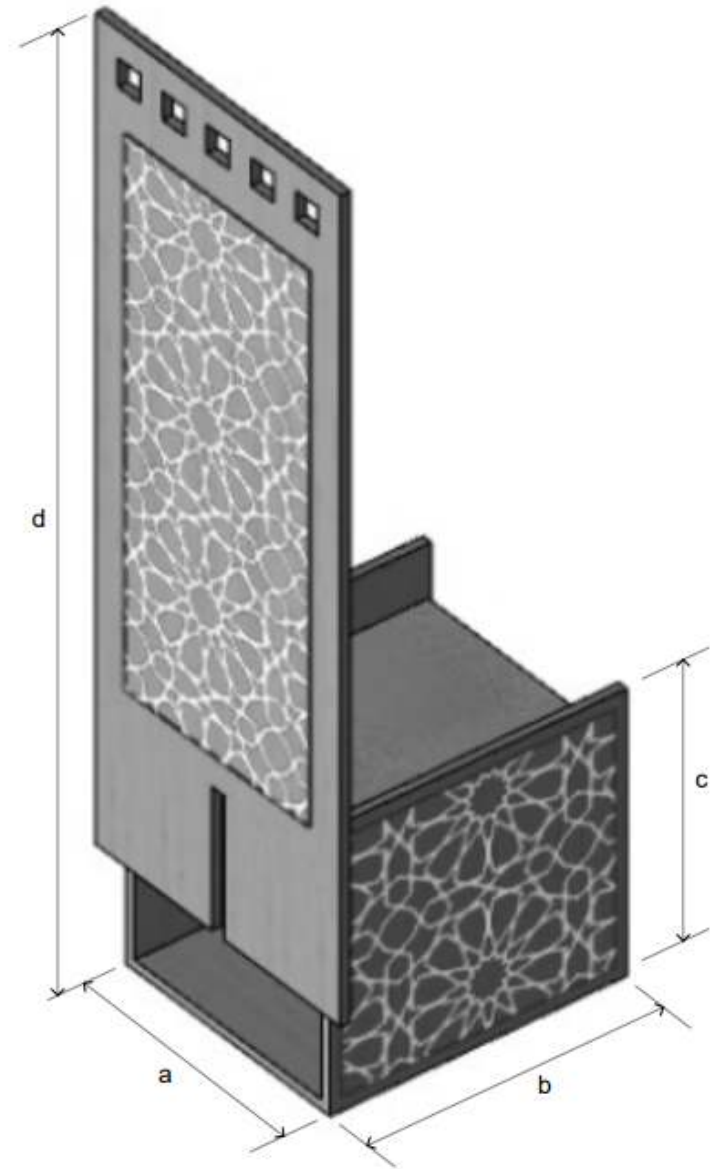
ISOMETRIC VIEW



Section X
1 : 50



Section Y
1 : 50

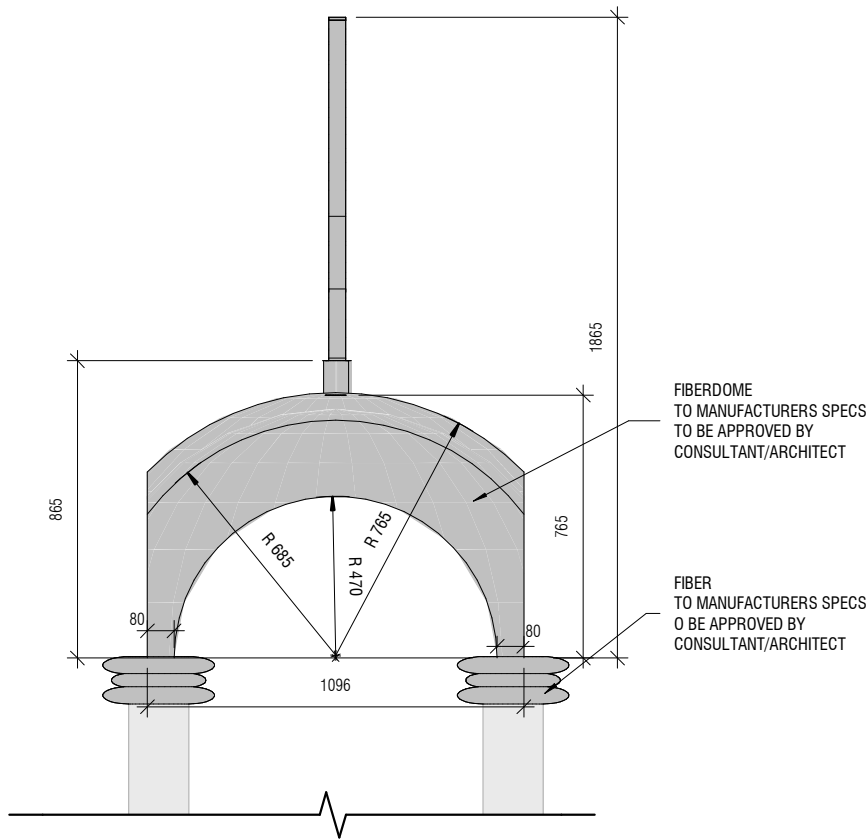


a = 600 mm
b = 600 mm
c = 600 mm
d = 1800 mm
seat height = 450 mm

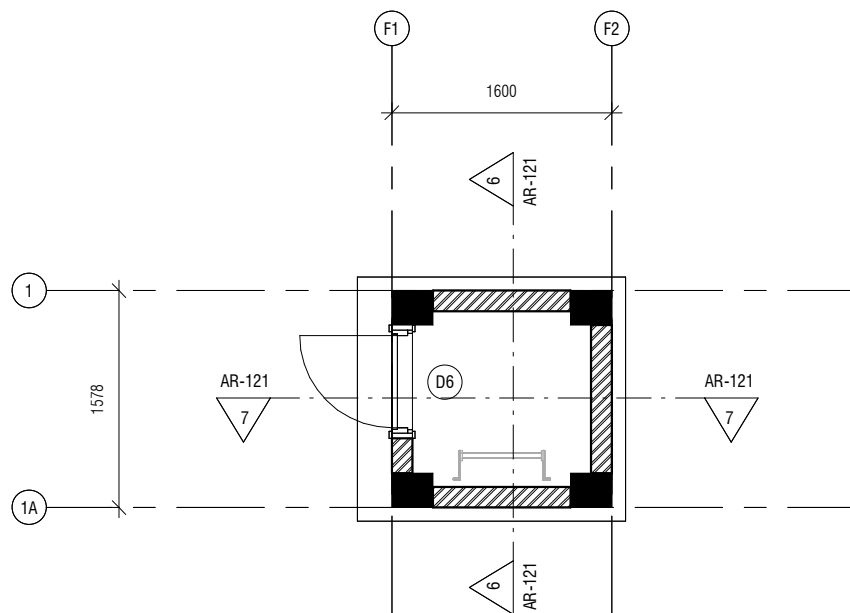
ISOMETRIC VIEW

MIMBAR CHAIR
NTS

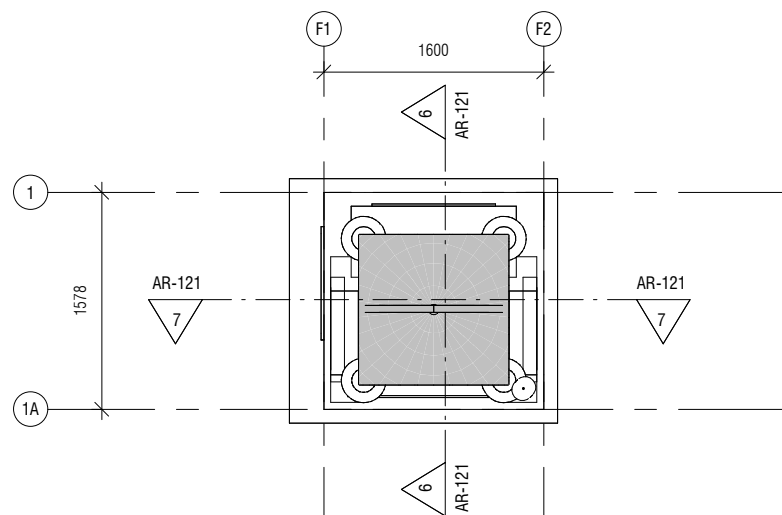
GENERAL NOTES				
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REVISIONS				
REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY
CONSULTANT				
LEAD CONSULTANT				
-				
DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
<div></div> <div>RIYAN PRIVATE LIMITED</div> <div>www.riyan.com.mv</div>				
CONSULTANT PROJECT NO. R24002MIA				
ARCHITECT	Ismail Rasheed			
CIVIL ENGINEER	Nadhyaan Ali Shareef			
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER	-			
INFRA. DESIGNER	-			
DRAWN BY	Asanka Dharmaratna			
CHECKED BY	Mariyam Irasha Shareef			
APPROVED BY				
PROJECT NAME				
PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX				
CLIENT MINISTRY OF ISLAMIC AFFAIRS				
DEVELOPER -				
ATOLL -				
ISLAND -				
LAGOON (GPS COORDINATES) -				
ISSUED FOR DD_DETAIL DESIGN				
BUILDING NAME Mosque for 300 pax				
BUILDING/STRUCTURE NO.		ISSUE DATE 27/06/24		
DRAWING TITLES				
MIHRAB & MIMBAR DETAILS				
SHEET SIZE A2		SCALE As indicated		
SHEET NO. AR-120				
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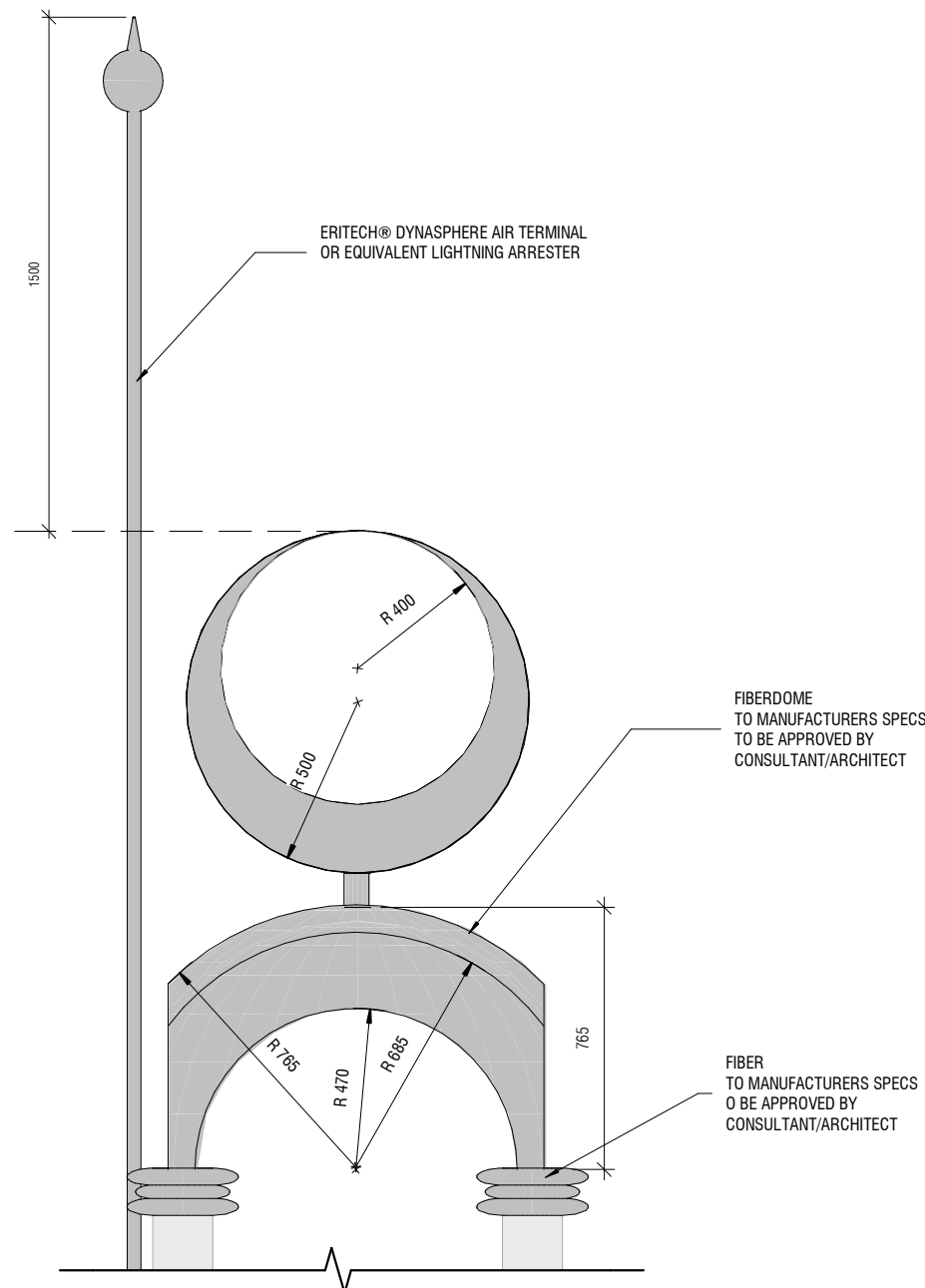
Section A - Callout
1 : 20



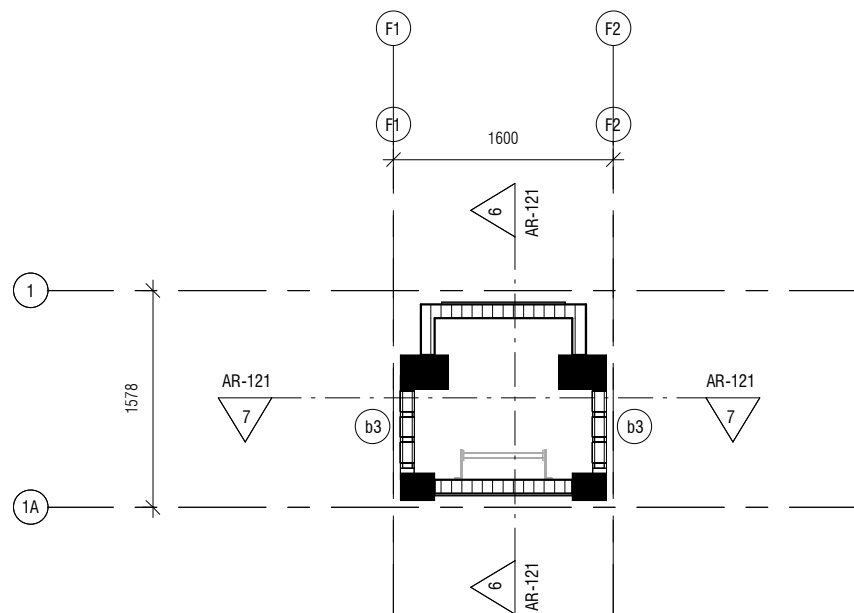
MINARET PLAN
1 : 50



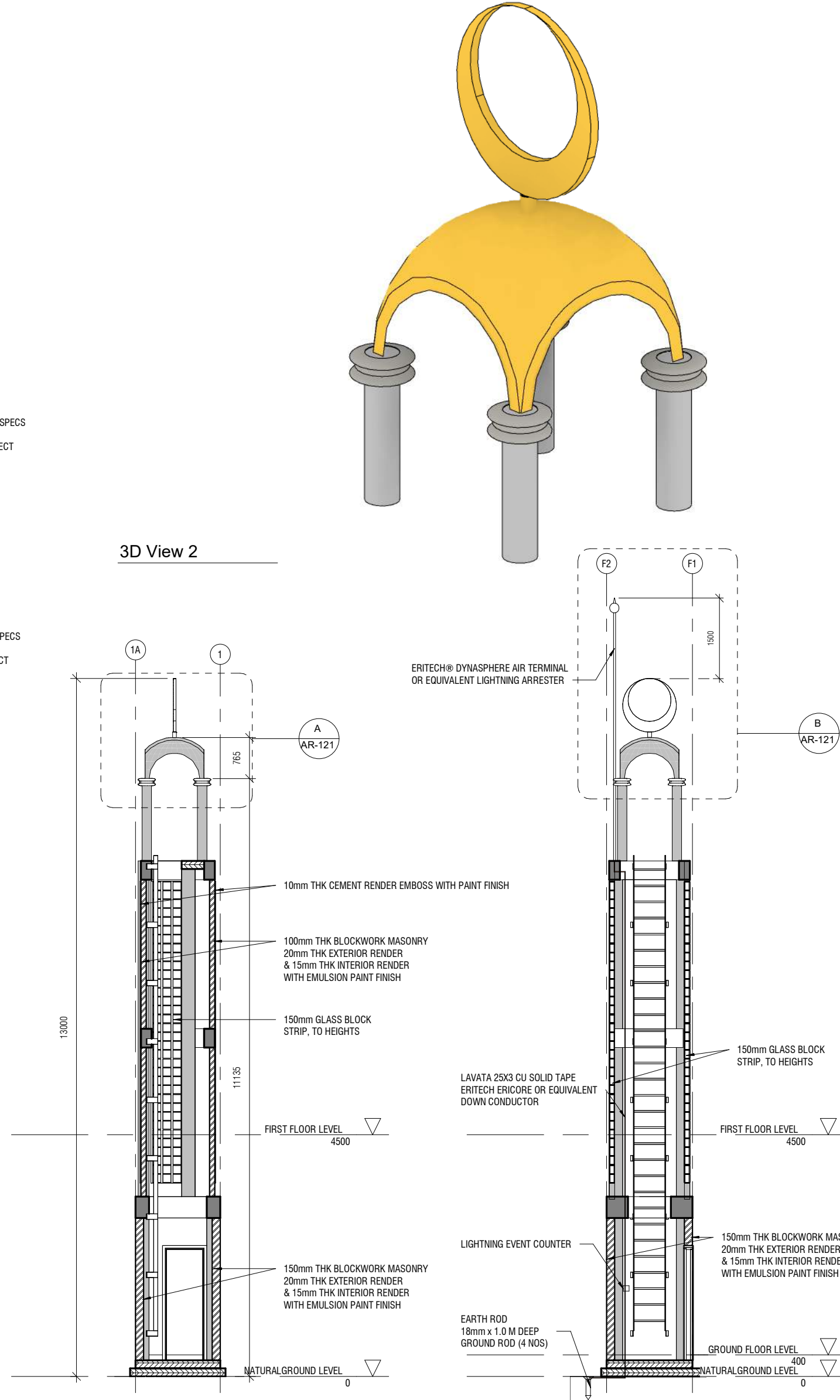
MINARET ROOF PLAN
1 : 50



Section B - Callout
1 : 20



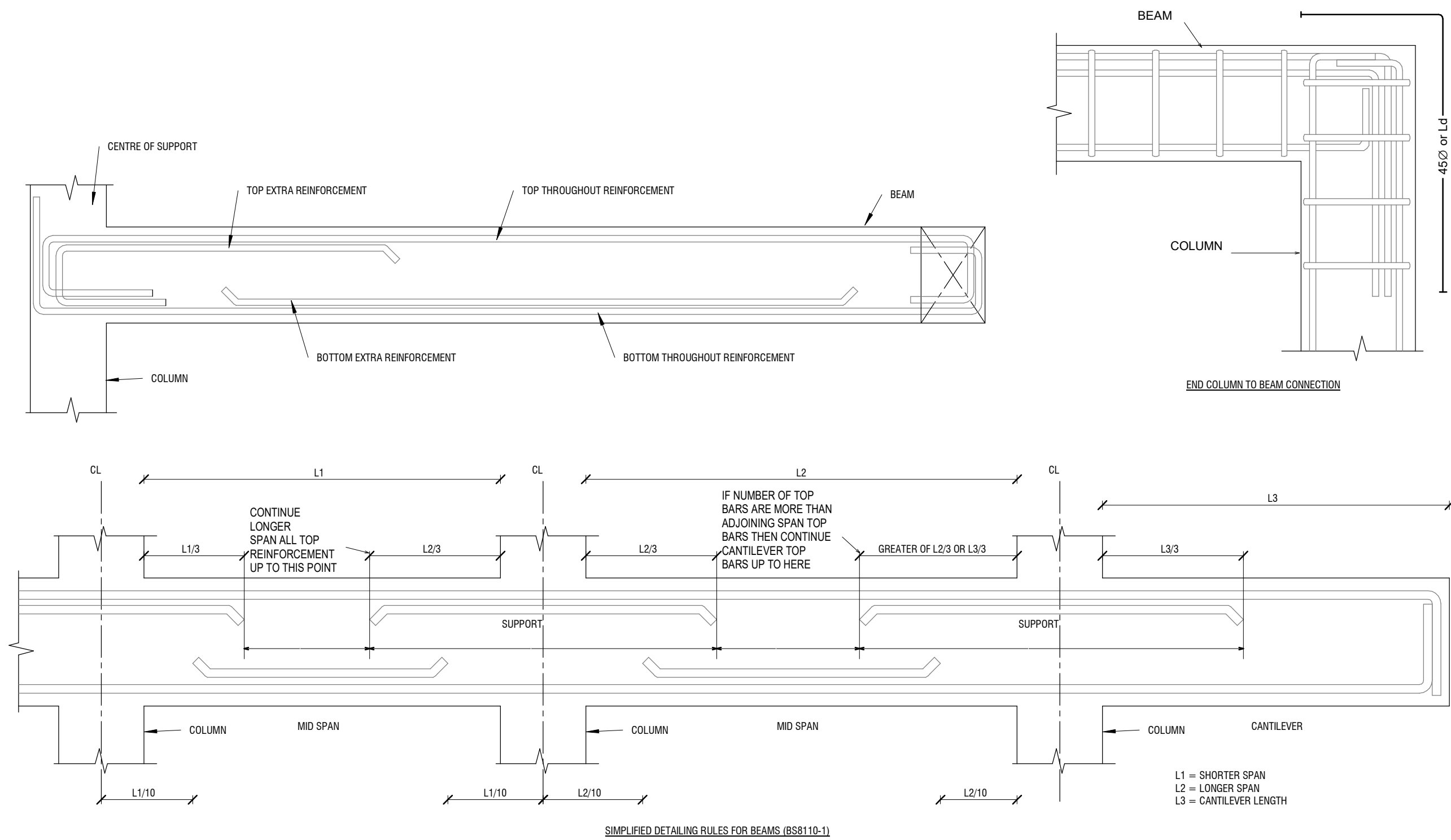
MINARET FIRST FLOOR LEVEL
1 : 50



Section A
1 : 75

Section B
1 : 75

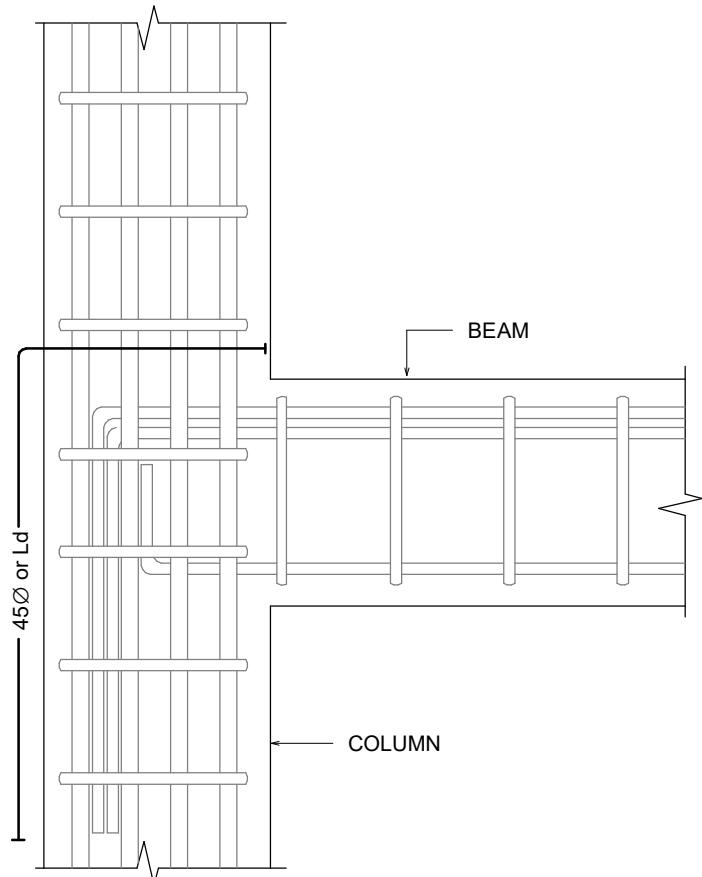
GENERAL NOTES				
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REVISIONS				
REV. NO.	REV. DATE	REV. DESCRIPTION	REV. BY	CHK. BY
CONSULTANT				
LEAD CONSULTANT				
DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
PROJECT NAME				
PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX				
CLIENT				
MINISTRY OF ISLAMIC AFFAIRS				
DEVELOPER				
ARCHITECT				
Ismail Rasheed				
CIVIL ENGINEER				
Nadhyaan Ali Shareef				
MEP ENGINEER				
M.K.B, C.D.P, N.K.P, M.E.I				
INT. DESIGNER				
-				
INFRA. DESIGNER				
-				
DRAWN BY				
Asanka Dharmaratna				
CHECKED BY				
Mariyam Irasha Shareef				
APPROVED BY				
PROJECT NAME				
PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX				
BUILDING NAME				
Mosque for 300 pax				
BUILDING/STRUCTURE NO.				
ISSUE DATE				
27/06/24				
DRAWING TITLES				
MINARET DETAILS				
SHEET SIZE				
A2				
SCALE				
As indicated				
SHEET NO.				
AR-121				
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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

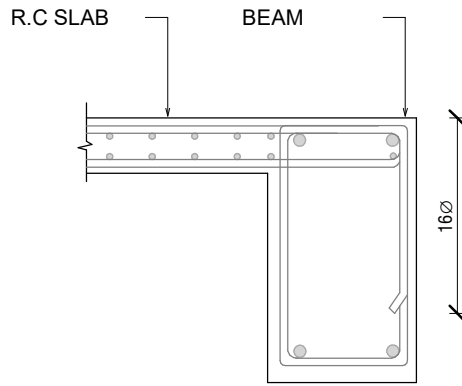
18.0 SPACER BARS

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

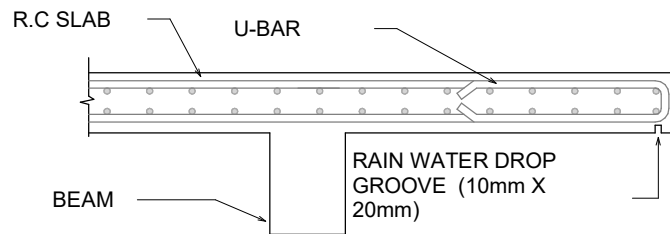


Ø = DIA OF REBAR

BEAM TO COLUMN CONNECTION

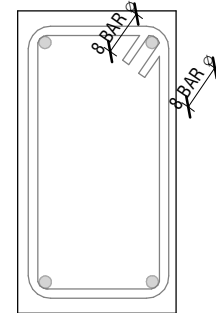


SLAB-BEAM ANCHORAGE DETAIL



Ø = DIA OF REBAR

CANTILEVERED SLAB EDGE DETAIL



Ø = DIA OF LINK

SHEAR LINKS ANCHORAGE DETAIL

GENERAL NOTES

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REVISIONS

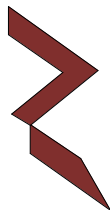
REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY

CONSULTANT

LEAD CONSULTANT

DESIGN CONSULTANT

REGISTERED LOCAL CONSULTANT



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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	Ismail Rashee
CIVIL ENGINEER	Nadhyaan Ali Shareef
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Asanka Dharmarathna
CHECKED BY	Mohamed Muththalib Waleed
APPROVED BY	

PROJECT NAME
PROPOSED PROTOTYPE MOSQUES MASJID
300 PAX

CLIENT	MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER	-
ATOLL	---
ISLAND	---
LAGOON (GPS COORDINATES)	-

ISSUED FOR
DD_DETAIL DESIGN

BUILDING NAME
Mosque for 300 pax

BUILDING/STRUCTURE NO.	ISSUE DATE 27/06/24
------------------------	------------------------

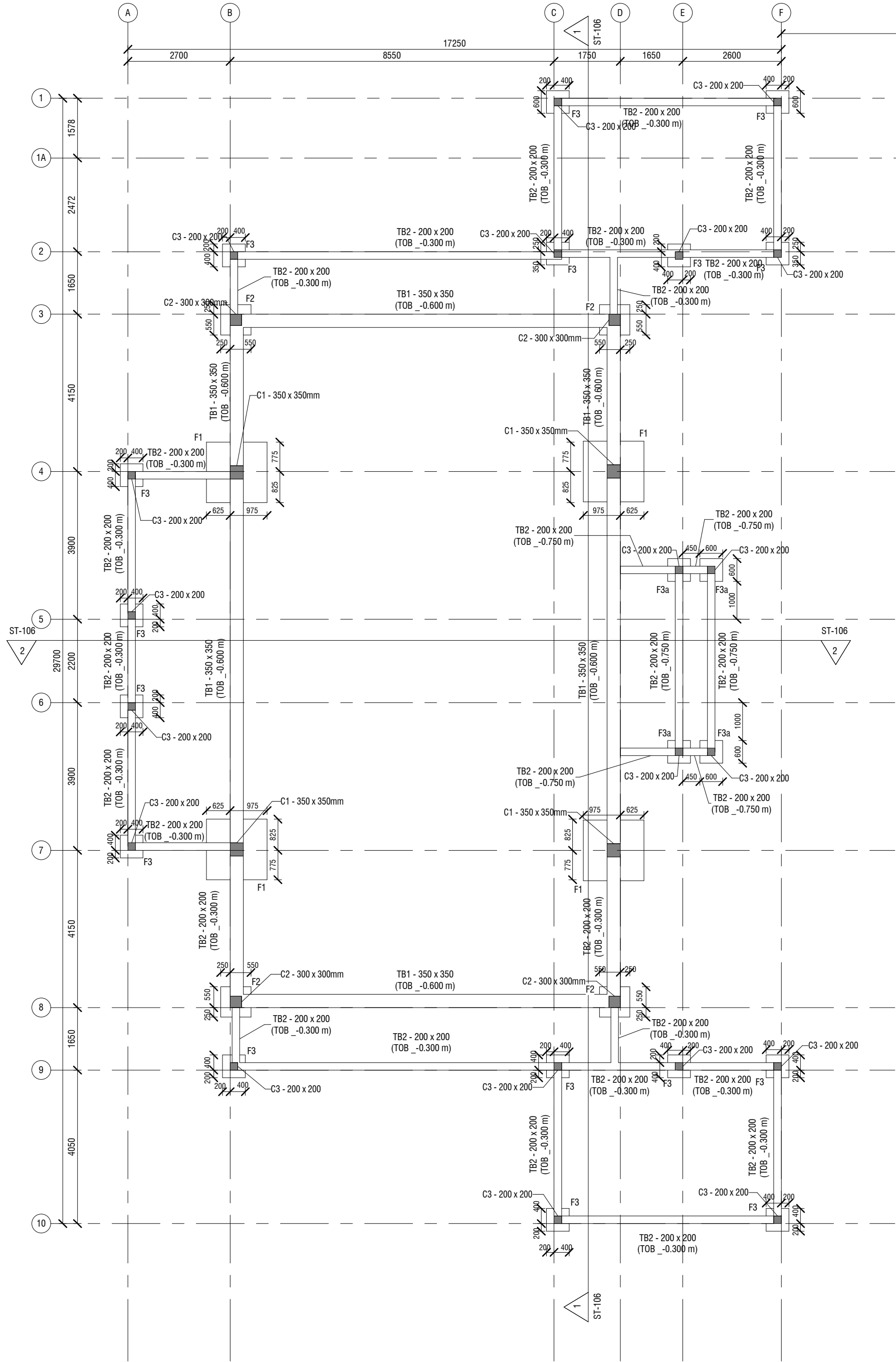
DRAWING TITLES
GENERAL NOTES 02

SHEET SIZE	A2	SCALE	1 : 1
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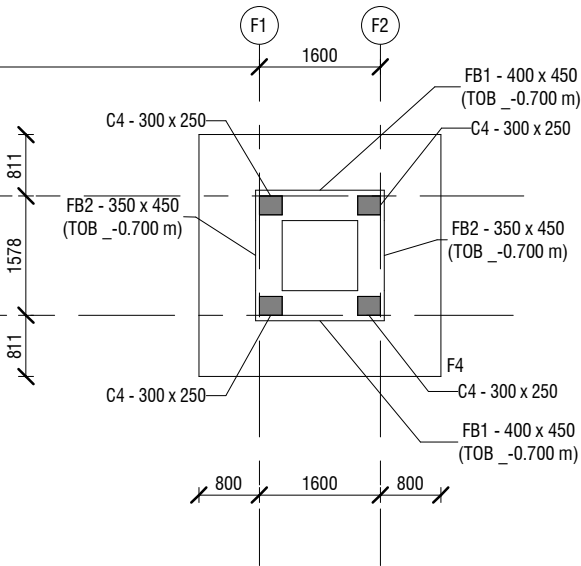
SHEET NO.

ST-01

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FOUNDATION PLAN
1 : 100

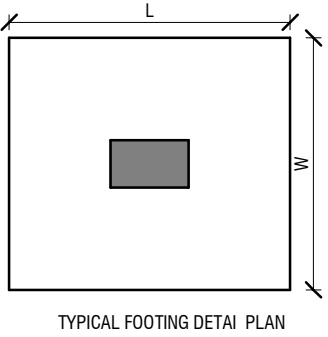
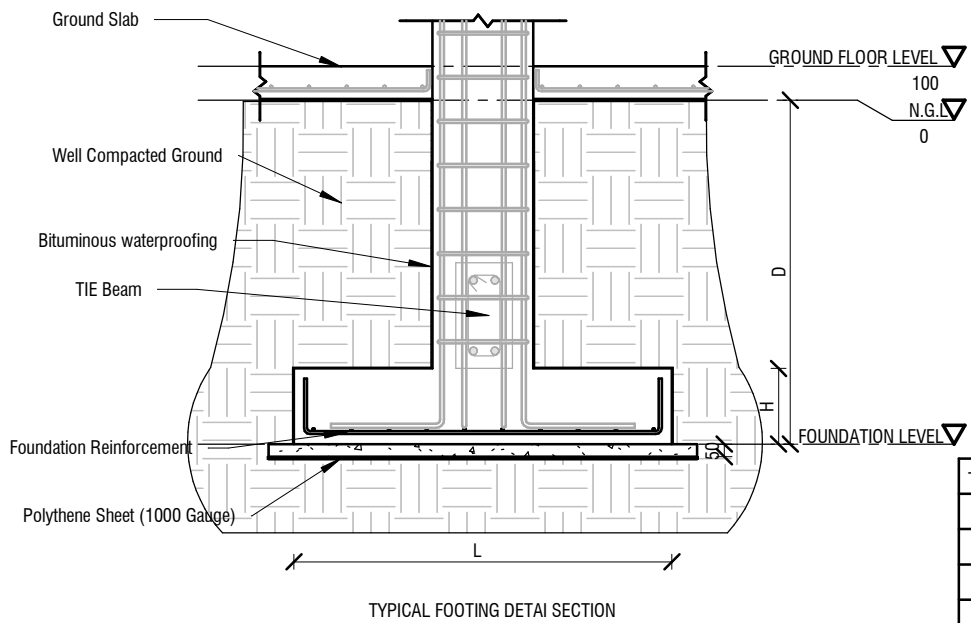


NOTES :

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 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 m SALB ELEVATION
x.xxx mm SALB THICKNESS



TYPE	LENGTH (L)	WIDTH (W)	THICKNESS (H)	DEPTH (D)	REINFORCEMENT (D)
F1	1600	1600	250	1200	T12@150 (C/C B/W)
F2	800	800	250	1200	T10@125 (C/C B/W)
F3	600	600	250	750	T10@150 (C/C B/W)
F3a	600	600	250	1200	T10@150 (C/C B/W)
F4	3200	3200	350	1500	T12@150MM (C/C B/W T/B)

GENERAL NOTES

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- THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
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- ALL DIMENSIONS MUST BE VERIFIED ON SITE PRIOR TO ORDER OR MANUFACTURE OF MATERIALS OR PRODUCTION OF SITE DRAWINGS.

REVISIONS

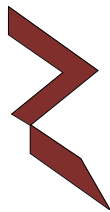
REV.NO	REV DATE	REV DESCRIPTION	REV BY	CHK BY

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RYAN PRIVATE LIMITED
www.ryan.com.mv

CONSULTANT PROJECT NO. R24002MIA

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MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Asanka Dharmarathna
CHECKED BY	Mohamed Muththalib Waleed
APPROVED BY	

PROJECT NAME
PROPOSED PROTOTYPE MOSQUES MASJID
300 PAX

CLIENT	MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER	-
ATOLL	---
ISLAND	---
LAGOON (GPS COORDINATES)	-
ISSUED FOR	DD_DETAIL DESIGN

BUILDING NAME
Mosque for 300 pax

BUILDING/STRUCTURE NO.	ISSUE DATE 27/06/24
------------------------	------------------------

DRAWING TITLES

FOUNDATION LEVEL GA PLAN AND
FOUNDATION DETAILS

SHEET SIZE	A2	SCALE	As indicated
SHEET NO.	ST-100		

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SALB THICKNESS

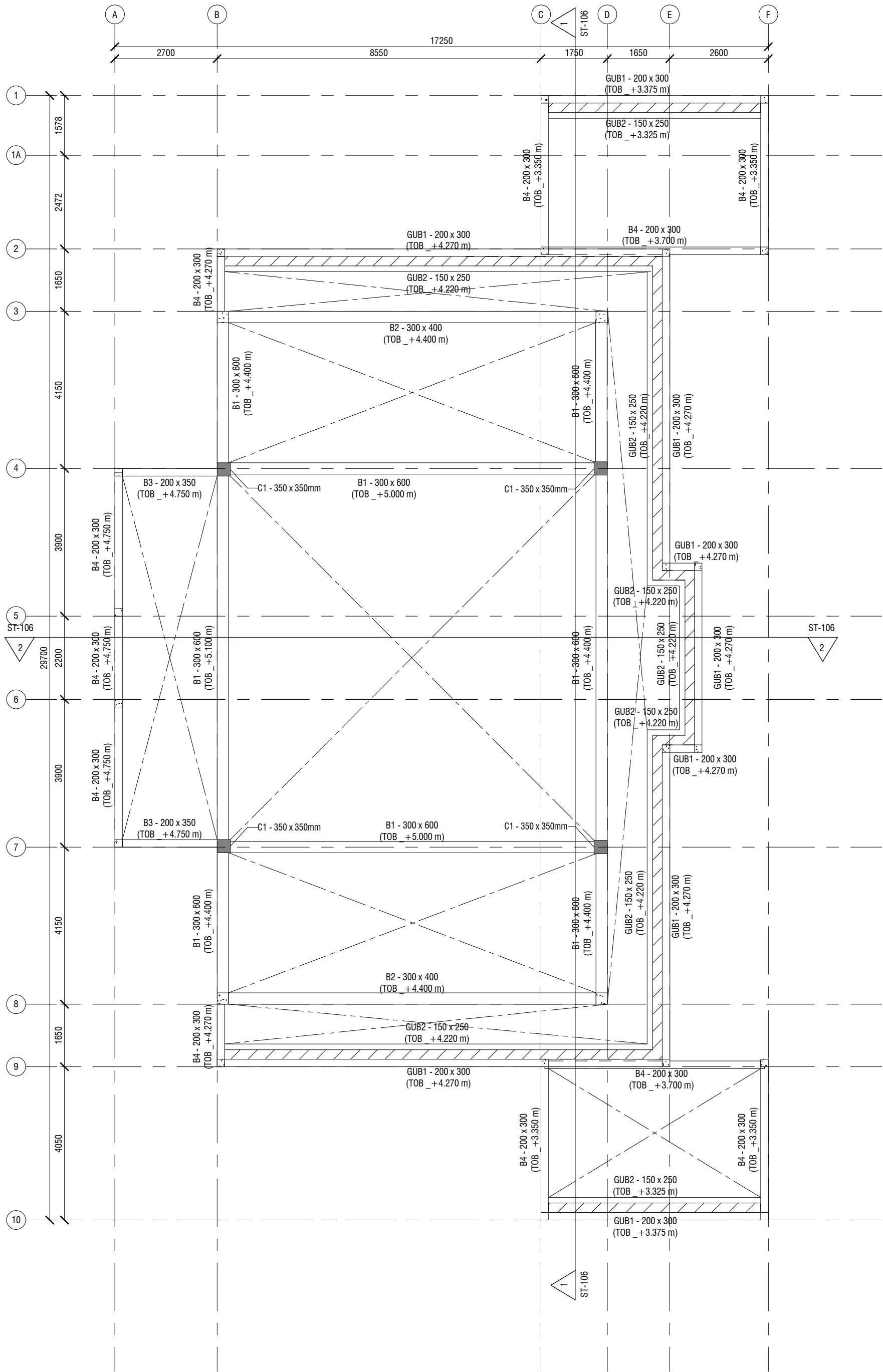
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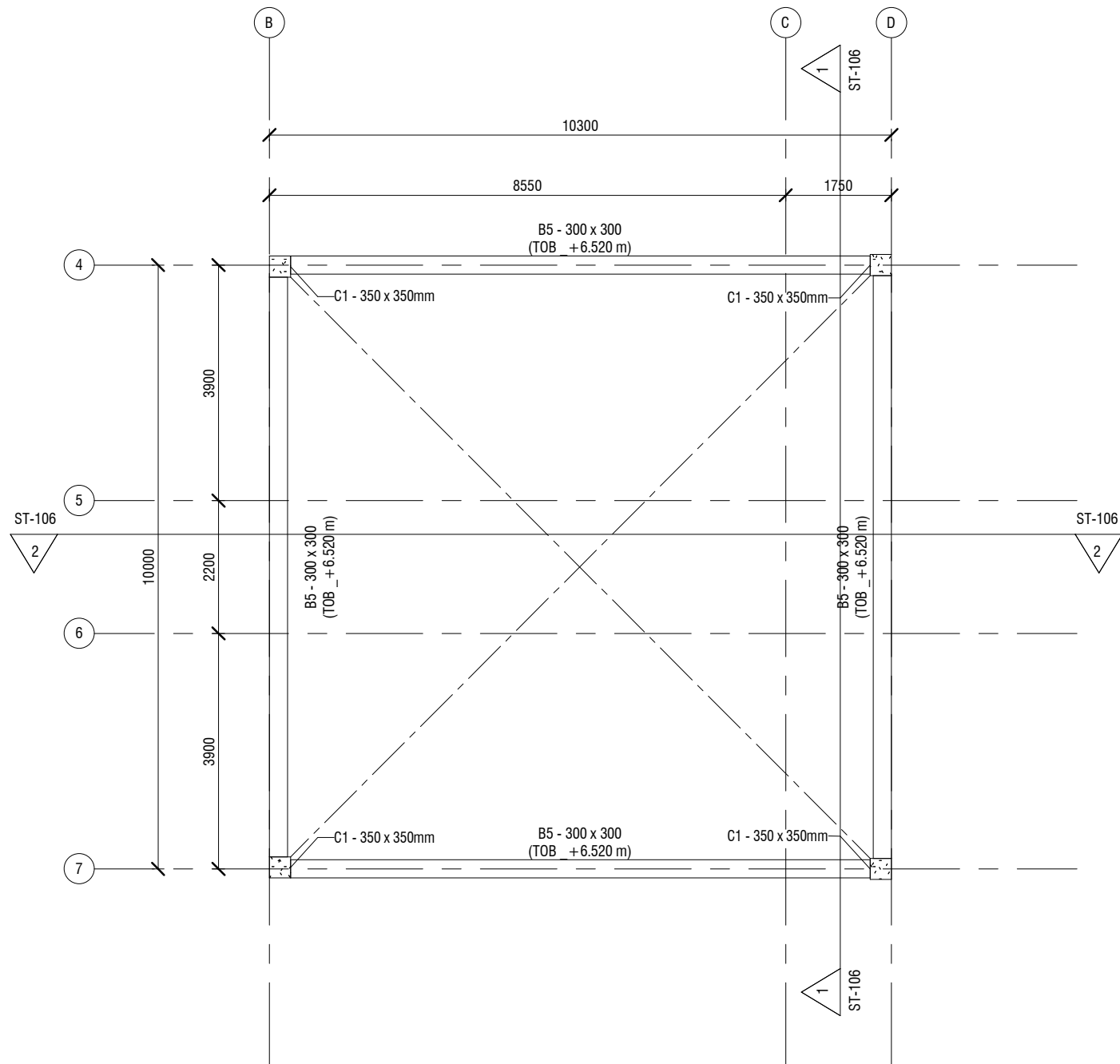


NOTE:-
REINFORCEMENT : T10@200C/C B/W (SINGLE LAYER, AS SHOWN)
REINFORCEMENT DISCONTINUOUS OVER VOIDS
TOP COVER - 30mm
BOTTOM COVER - 50mm

expressly stated is a violation of this copyright



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 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



SALB ELEVATION
SALB THICKNESS

GENERAL NOTES

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REVISIONS

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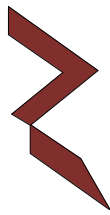
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REGISTERED LOCAL CONSULTANT



RIYAN PRIVATE LIMITED
www.riyan.com.mv

CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	Ismail Rashee
CIVIL ENGINEER	Nadhyaan Ali Shareef
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INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Asanka Dharmarathna
CHECKED BY	Mohamed Muththalib Waleed
APPROVED BY	

PROJECT NAME
PROPOSED PROTOTYPE MOSQUES MASJID
300 PAX

CLIENT	MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER	-
ATOLL	---
ISLAND	---
LAGOON (GPS COORDINATES)	-

ISSUED FOR
DD_DETAIL DESIGN

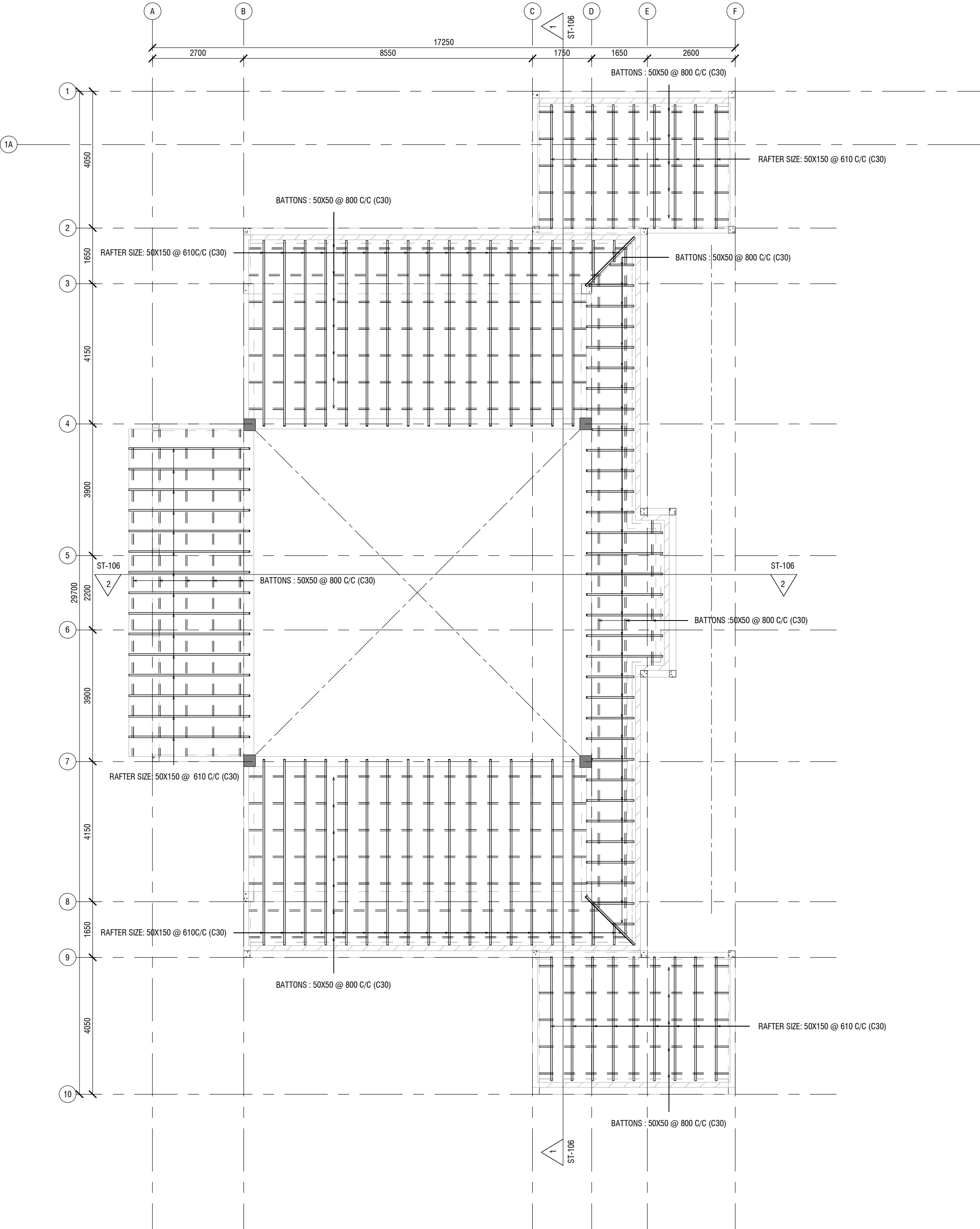
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Mosque for 300 pax

BUILDING/STRUCTURE NO.	ISSUE DATE 27/06/24
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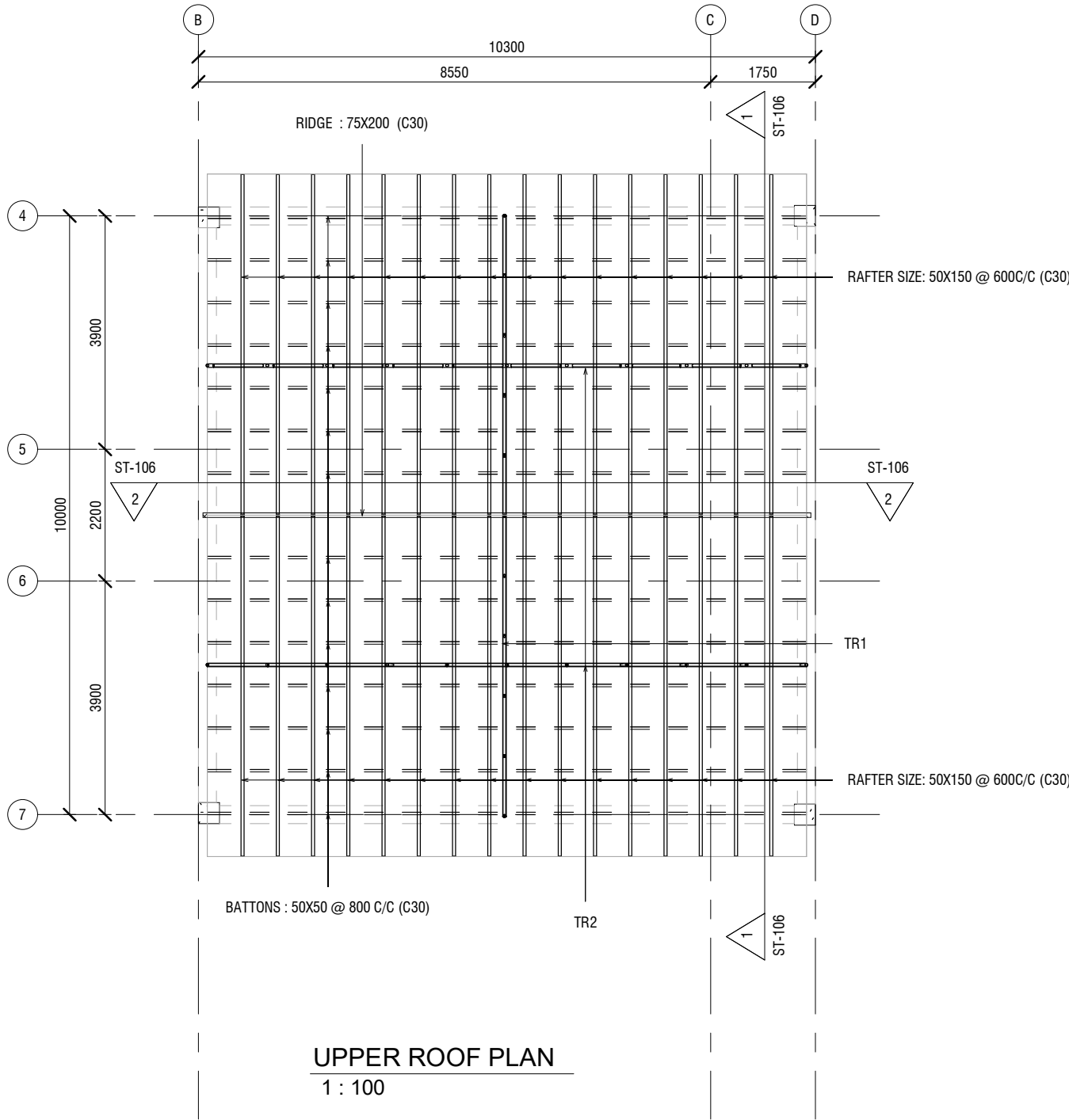
DRAWING TITLES
1ST FLOOR LEVEL GA

SHEET SIZE	A2	SCALE	As indicated
SHEET NO.	ST-103		

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LOWER ROOF PLAN
1 : 100



UPPER ROOF PLAN
1 : 100

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

GENERAL NOTES

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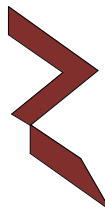
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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	Ismail Rashee
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MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Asanka Dharmarathna
CHECKED BY	Mohamed Muththalib Waleed
APPROVED BY	

PROJECT NAME
**PROPOSED PROTOTYPE MOSQUES MASJID
300 PAX**

CLIENT	MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER	-
ATOLL	---
ISLAND	---
LAGOON (GPS COORDINATES)	-
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BUILDING NAME

Mosque for 300 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

27/06/24

DRAWING TITLES

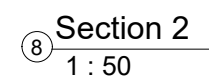
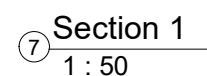
ROOF PLAN VIEW

SHEET SIZE A2 SCALE As indicated

SHEET NO.

ST-104

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CONSULTANT PROJECT NO. R24002MIA

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INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Asanka Dharmarathna
CHECKED BY	Mohamed Muththalib Waleed
APPROVED BY	

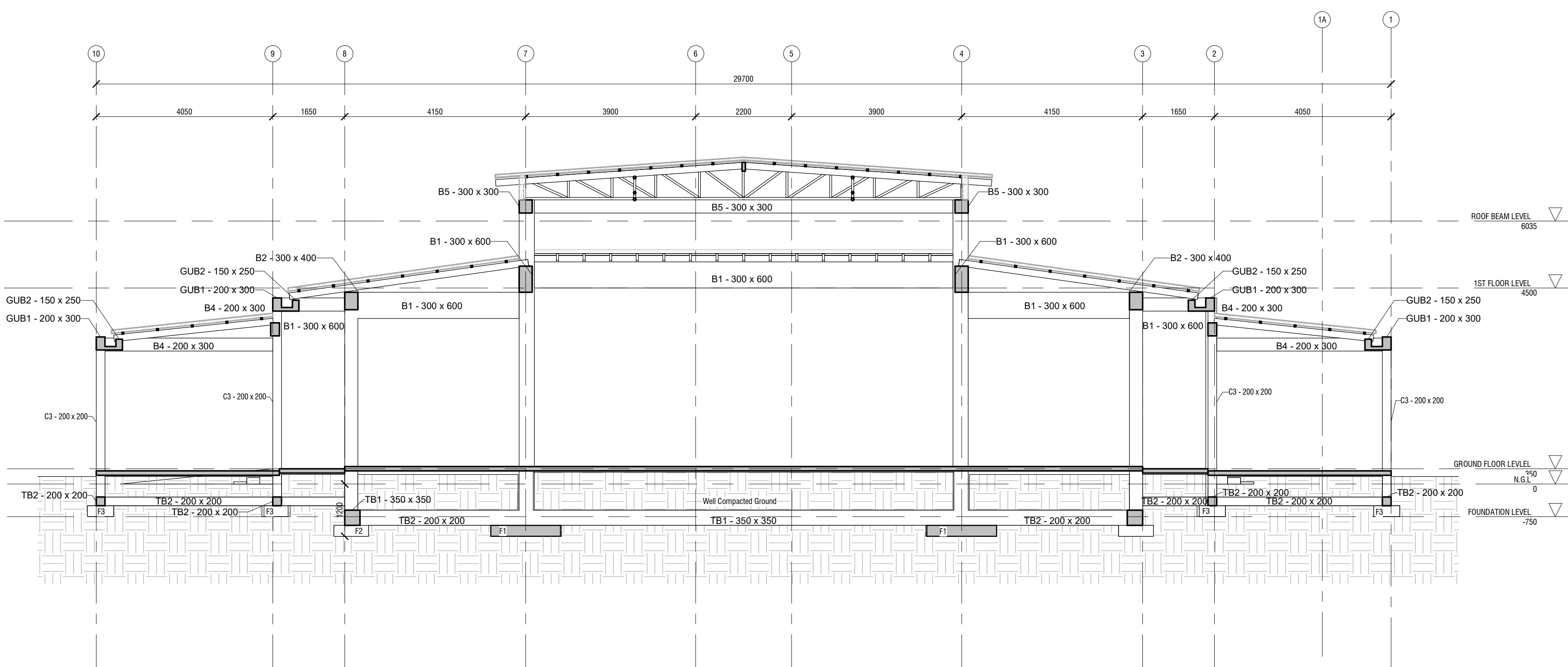
PROJECT NAME

PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX

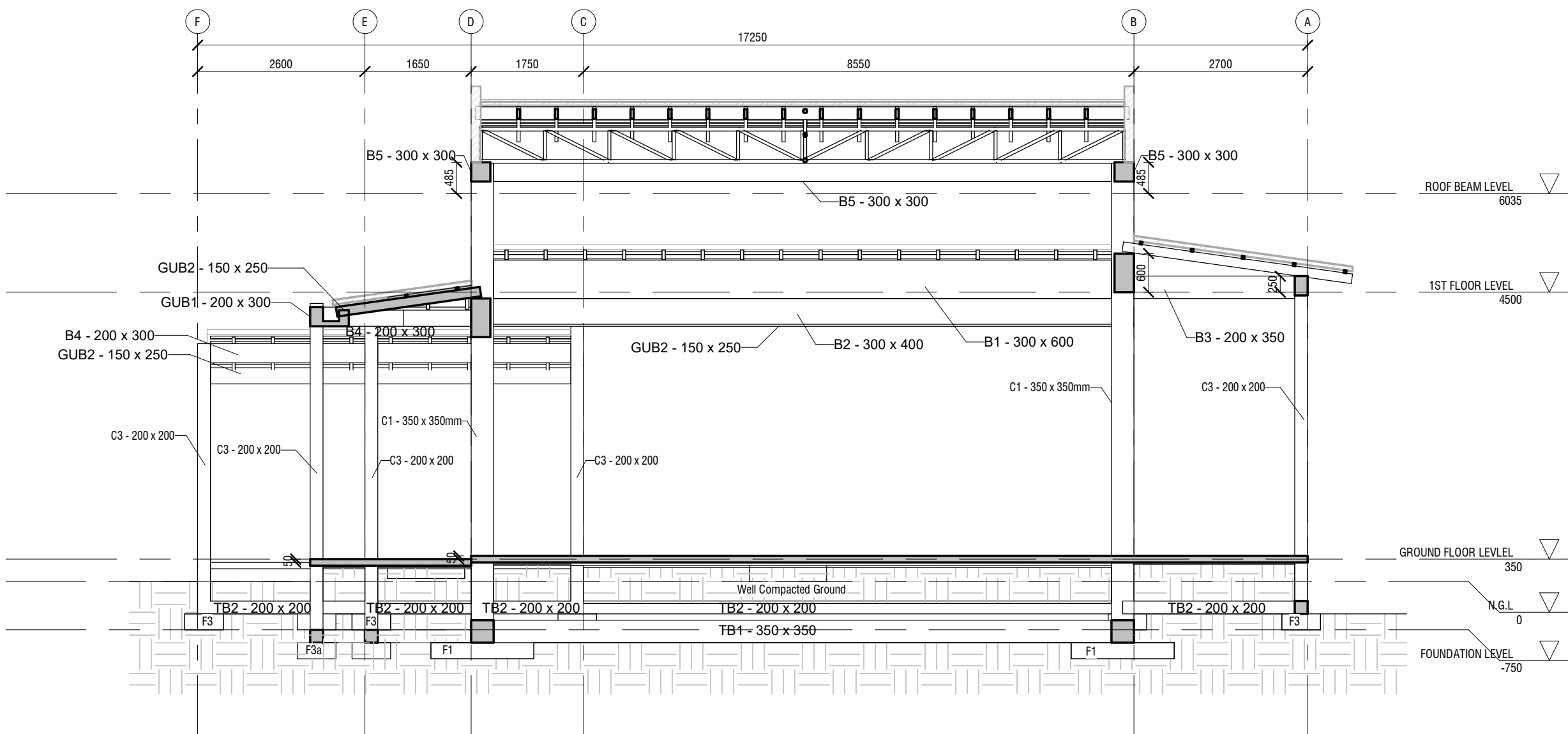
CLIENT	MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER	-
ATOLL	—
ISLAND	—
LAGOON (GPS COORDINATES) -	
ISSUED FOR	
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BUILDING NAME	
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BUILDING/STRUCTURE NO.	ISSUE DATE
	27/06/24
DRAWING TITLES	
MINARET DETAILS	

SHEET SIZE	A2	SCALE	As indicated
SHEET NO.			
ST-105			

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SECTION 01
1 : 75



SECTION 02
1 : 75

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REVISIONS

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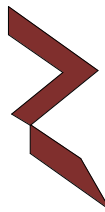
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REGISTERED LOCAL CONSULTANT



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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	Ismail Rashee
CIVIL ENGINEER	Nadhyaan Ali Shareef
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Asanka Dharmarathna
CHECKED BY	Mohamed Muththalib Waleed
APPROVED BY	

PROJECT NAME
PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX

CLIENT **MINISTRY OF ISLAMIC AFFAIRS**

DEVELOPER

ATOLL

ISLAND

LAGOON (GPS COORDINATES)

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BUILDING NAME

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BUILDING/STRUCTURE NO.

ISSUE DATE

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DRAWING TITLES

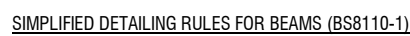
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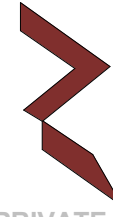
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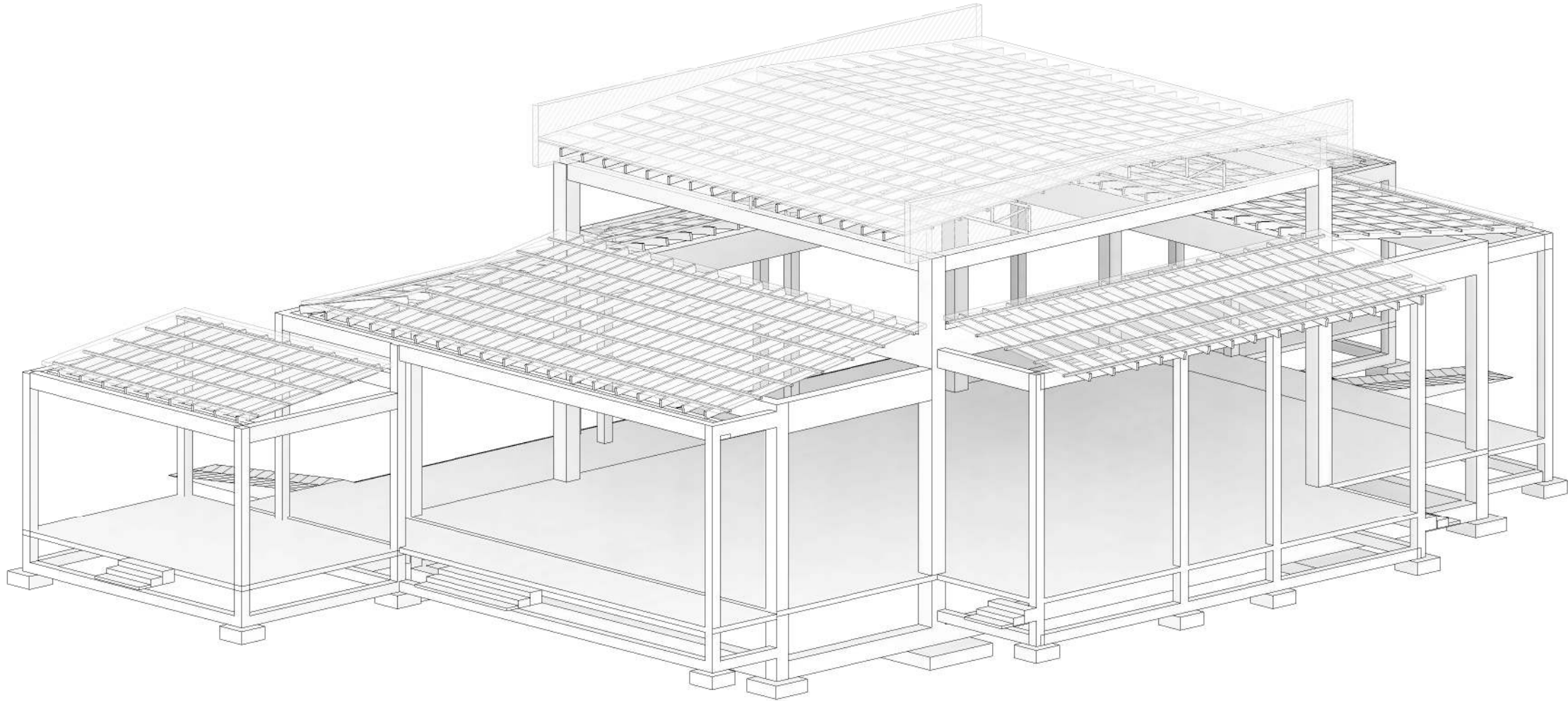
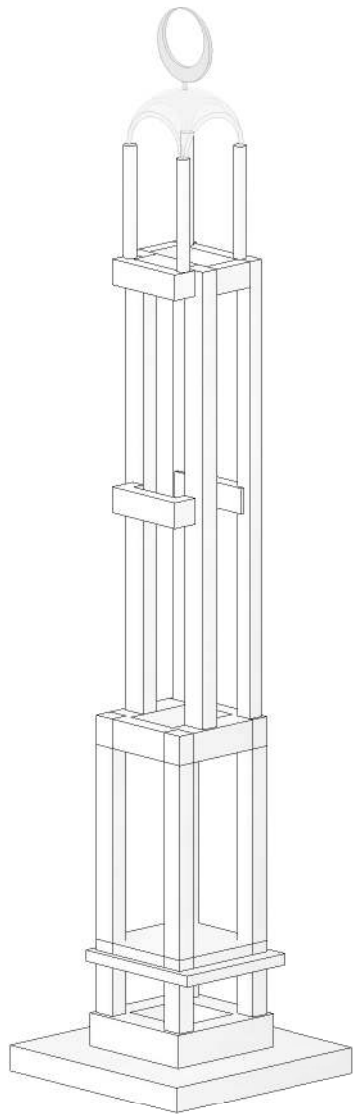
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ST-106

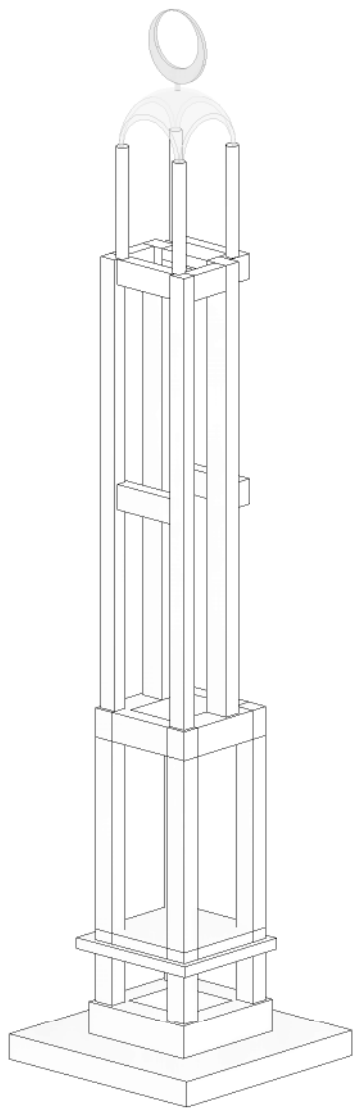
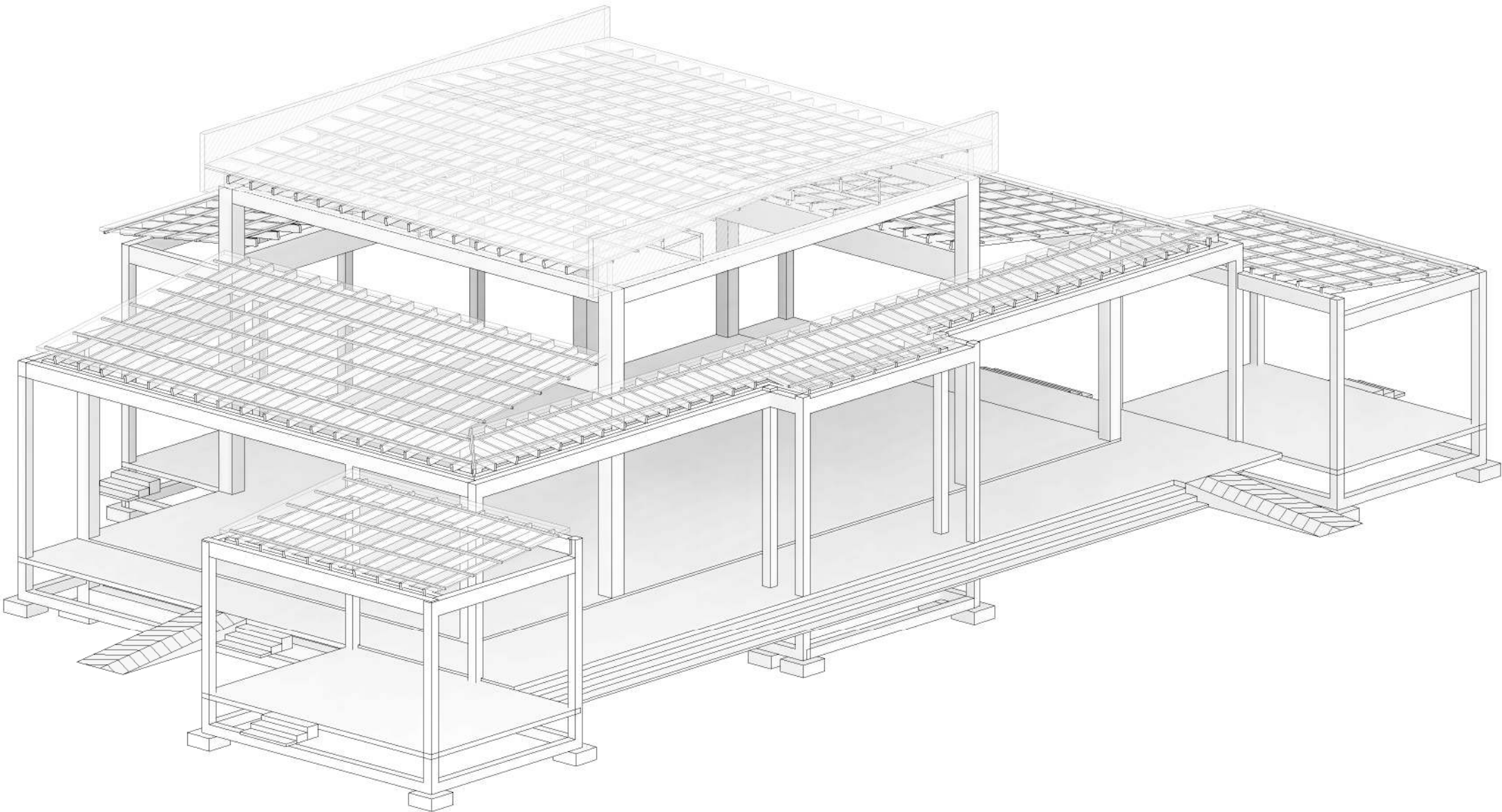
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LEAD CONSULTANT					
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DESIGN CONSULTAN					
REGISTERED LOCAL CONSULTANT					
<div><p>RIYAY PRIVATE LIMITED</p><p>www.riyay.com.mv</p></div>					
CONSULTANT PROJECT NO. R24002MIA					
ARCHITECT		Ismaail Rashee			
CIVIL ENGINEER		Nadhyaan Ali Shareef			
MEP ENGINEER		M.K.B, C.D.P, N.K.P, M.E.I			
INT. DESIGNER		-			
INFRA. DESIGNER		-			
DRAWN BY		Asanka Dharmarathna			
CHECKED BY		Mohamed Muththalib Waleed			
APPROVED BY					
PROJECT NAME					
PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX					
CLIENT		MINISTRY OF ISLAMIC AFFAIRS			
DEVELOPER		-			
ATOLL		_____			
ISLAND		_____			
LAGOON (GPS COORDINATES)		- -			
ISSUED FOR					
DD_DETAIL DESIGN					
BUILDING NAME					
Mosque for 300 pax					
BUILDING/STRUCTURE NO.			ISSUE DATE		
			27/06/24		
DRAWING TITLES					
BEAMS,STAIRCASE AND COLUMNS DETAILS					
SHEET SIZE		A2	SCALE		As indicated
SHEET NO.					
ST-107					
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3D - VIEW 01



3D - VIEW 02

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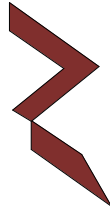
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LEAD CONSULTANT

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DESIGN CONSULTAN

REGISTERED LOCAL CONSULTANT



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CONSULTANT PROJECT NO. R24002MIA

ARCHITECT	Ismail Rashee
CIVIL ENGINEER	Nadhyaan Ali Shareef
MEP ENGINEER	M.K.B, C.D.P, N.K.P, M.E.I
INT. DESIGNER	-
INFRA. DESIGNER	-
DRAWN BY	Asanka Dharmarathna
CHECKED BY	Mohamed Muththalib Waleed
APPROVED BY	

PROJECT NAME

PROPOSED PROTOTYPE MOSQUES MASJID 300 PAX

CLIENT

MINISTRY OF ISLAMIC AFFAIRS

DEVELOPER

-

ATOLL

ISLAND

LAGOON (GPS COORDINATES)

-

ISSUED FOR

DD_DETAIL DESIGN

BUILDING NAME

Mosque for 300 pax

BUILDING/STRUCTURE NO.

ISSUE DATE

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DRAWING TITLES

3D VIEWS

SHEET SIZE

A2

SCALE

SHEET NO.

ST-108

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PROTOTYPE MOSQUE - 300

CLIENT: MINISTRY OF ISLAMIC AFFAIRS

















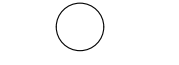











SERVICES DRAWINGS








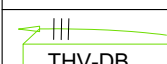
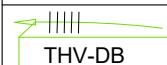

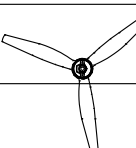

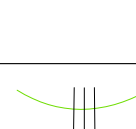
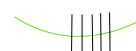




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e : info@riyan.com.mv
w : www.riyan.com.mv
3rd floor, H. Azum, Ameenemagu, Male'





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








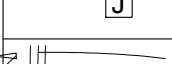
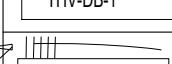

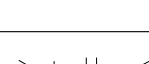


LEGEND (LIGHTING)

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)

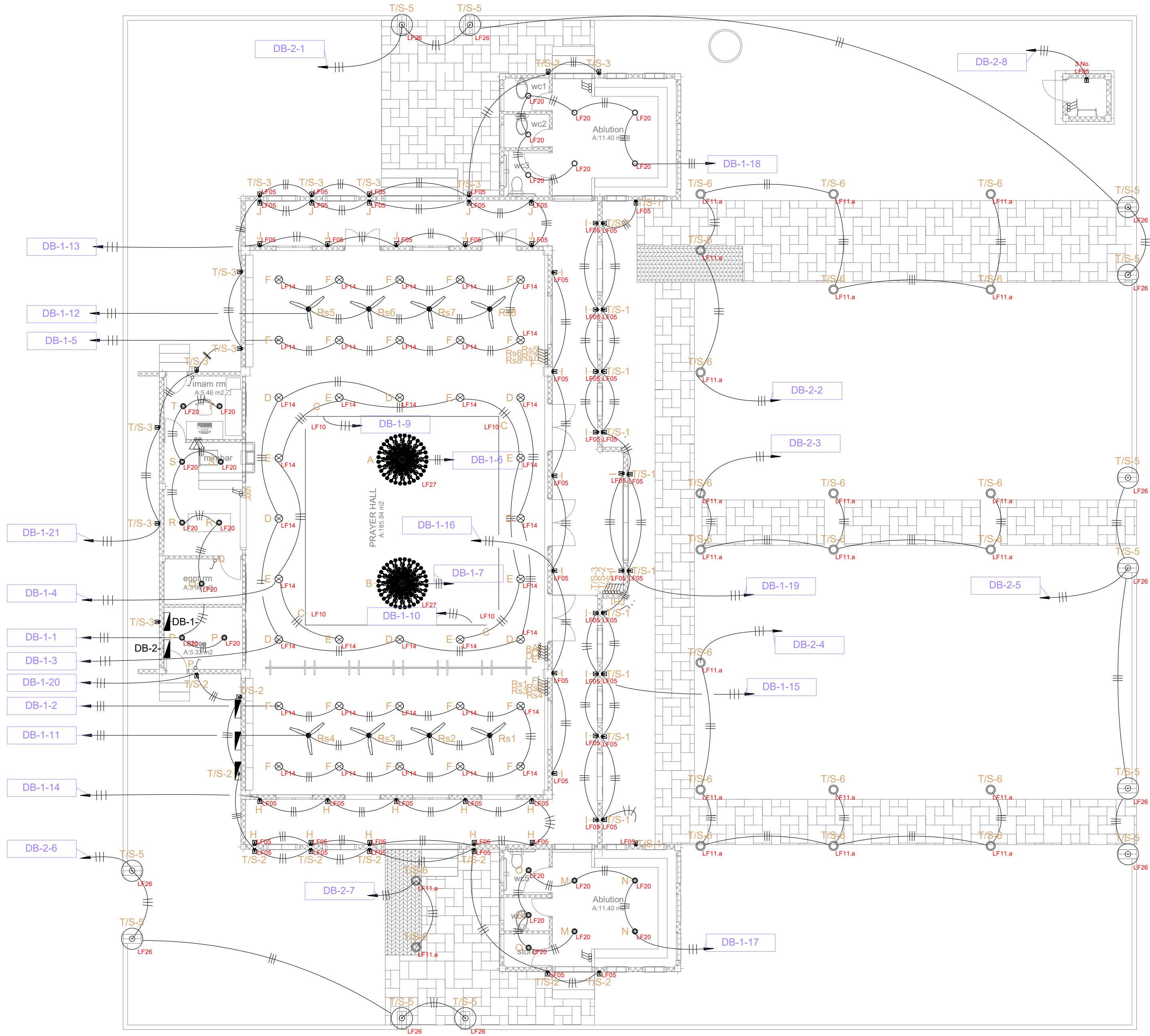
SYMBOL	CODE	DESCRIPTION
	SSO	13A, SWITCH TYPE, SINGLE POWER OUTLET
	TSO	13A, SWITCH TYPE, DOUBLE POWER OUTLET
	AC	15A, SWITCH TYPE, SINGLE POWER OUTLET
	USB	2 NO. USB CHARGER PORT
	3P,ISO	3 PHASE ISOLATOR
	1P,ISO	1 PHASE ISOLATOR
	J	JUNCTION BOX
	THV-DB-1	CIRCUIT HOMERUN, SINGLE PHASE, 3 WIRE
	THV-DB-123	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>RIYAN PRIVATE LIMITED</div><div>www.riyan.com.mv</div></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 300 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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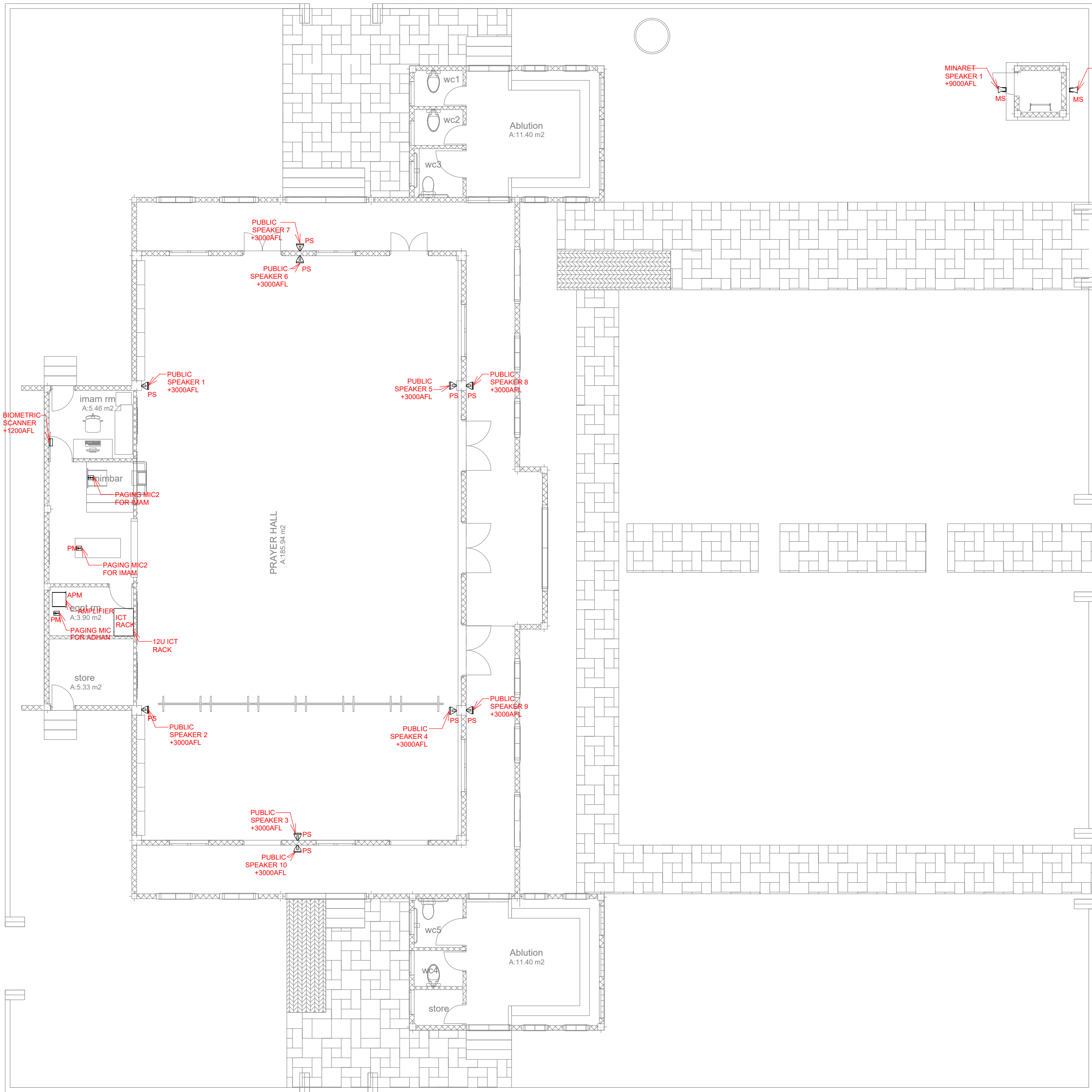
GROUND FLOOR_LIGHTING LAYOUT
SCALE 1:100



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




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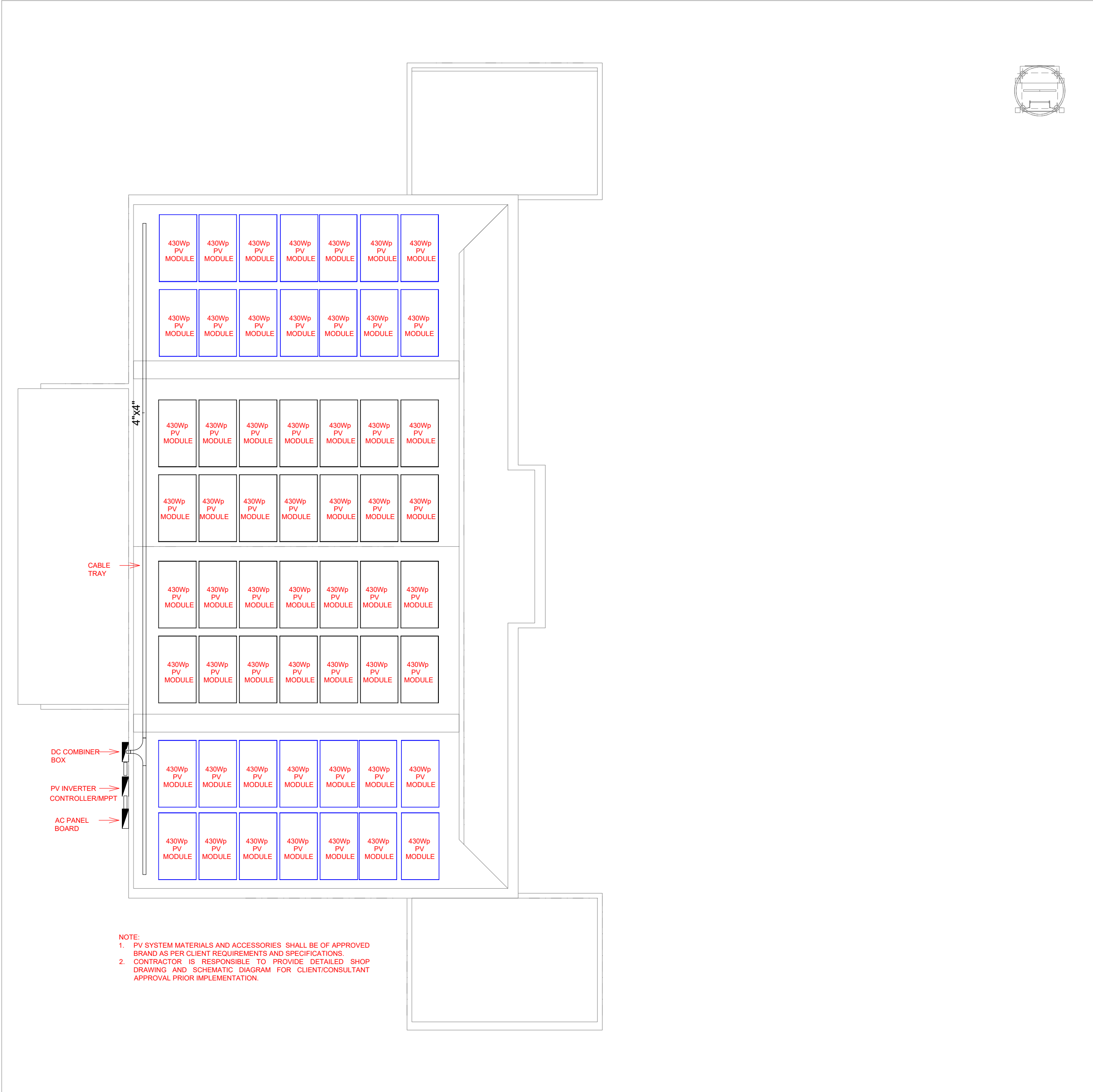


GROUND FLOOR_PA & ICT LAYOUT
SCALE 1:100



GENERAL NOTES				
- DO NOT SCALE FROM THIS DRAWING.				
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CONSULTANT				
LEAD CONSULTANT				
RIYAN PVT LTD				
DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
<div><p>RIYAN PRIVATE LIMITED www.riyan.com.mv</p></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 300 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

- 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

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 300 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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ELECTRICAL LOAD CALCULATION_DB-1

FEEDER NAME/No:		DB-1- (MOSQUE 300 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				<th colspan="2"></th> <th colspan="2"></th>																
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	9	50	450.00	1.00	0.80	0.90	400.00	360.00	230	1.74			10	100	1	6	C	32A,4P 30mA	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-2	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-1-3	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-1-4	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-1-5	LF14-LIGHTING FIXTURE	1	50	50.00	1.00	0.80	0.90	44.44	40.00	230		0.19			10	100	1	6		C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-6	LF27-LIGHTING FIXTURE	1	100	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-1-7	LF27-LIGHTING FIXTURE	1	100	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-1-8	LF10-LIGHTING FIXTURE	1	50	50.00	1.00	0.80	0.90	44.44	40.00	230		0.19			10	100	1	6		C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-9	LF10-LIGHTING FIXTURE	1	50	50.00	1.00	0.80	0.90	44.44	40.00	230			0.19		10	100	1	6		C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-10	LF10-LIGHTING FIXTURE	1	50	50.00	1.00	0.80	0.90	44.44	40.00	230	0.19				10	100	1	6		C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-11	CEILING FAN	4	100	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-1-12	CEILING FAN	4	100	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-1-13	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-1-14	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-1-15	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-1-16	LF05-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	LF20-LIGHTING FIXTURE	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-1-18	LF20-LIGHTING FIXTURE	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-1-19	LF05-LIGHTING FIXTURE IN TIMER SWITCH(T/5)	19	50	950.00	1.00	0.80	0.90	844.44	760.00	230	3.67				10	100	1	6		C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-20	LF20-LIGHTING FIXTURE IN TIMER SWITCH(T/5)	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-1-21	LF20-LIGHTING FIXTURE IN TIMER SWITCH(T/5)	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-1-22	SPARE	0	50	-	1.00	0.80	0.90	-	-	230	-				10	100	1	6		C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-23	SPARE	0	50	-	1.00	0.80	0.90	-	-	230		-			10	100	1	6		C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-24	SPARE	0	50	-	1.00	0.80	0.90	-	-	230			0.00		10	100	1	6		C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-25	SPARE	0	50	-	1.00	0.80	0.90	-	-	230	-				10	100	1	6		C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-26	SPARE	0	50	-	1.00	0.80	0.90	-	-	230		-			10	100	1	6		C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY
DB-1-	SPARE	0	100	-	1.00	0.80	0.90	-	-	230			0.00		10	100	1	6	C			
DB-1-	SPARE	0	100	-	1.00	0.80	0.90	-	-	230	-				10	100	1	6	C			
TOTAL CONNECTED LIGHTING LOAD											10.63	8.89	9.08		32	100	3	10	C	4x1C-6mm² PVC/PVC + 6mm² PVC PE	CONDUIT/RACEWAY	
DB-1-27	13A SINGLE POWER SOCKET SWITCH TYPE	4	90	360.00	1.00	0.80	0.90	320.00	288.00	230	1.39				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	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-1-29	13A SINGLE POWER SOCKET SWITCH TYPE	4	90	360.00	1.00	0.80	0.90	320.00	288.00	230			1.39		16	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-30	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC	1	1800	1,800.00	1.00	0.80	0.90	1,600.00	1,440.00	230	6.96				20	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	90	360.00	1.00	0.80	0.90	320.00	288.00	230		1.39			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	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-1-33	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	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	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-4mm² PVC/PVC + 4mm² PVC PE	CONDUIT/RACEWAY	
DB-1-39,40,41	3 PHASE ISO FOR VRF SYSTEM	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-1-42,43,44	3 PHASE ISO FOR VRF SYSTEM	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-1-45	15A SINGLE POWER SOCKET SWITCH TYPE FOR AC	1	1200	1,200.00	1.00	0.80	0.90	1,066.67	960.00	230	4.64				20	100	1	6	C	2x1C-2.5mm² PVC/PVC + 2.5mm² PVC PE	CONDUIT/RACEWAY	
DB-1-46	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-1-47	DB-2- (MOSQUE 300 Pax)	1	4,534.51	4,534.51	1.00	0.80	0.90	4,030.67	3,627.61	230	5.82	5.82	5.82		32	100	3	10	C	1x4C-10mm²Cu/ XLPE/SWA/PVC +	CONDUIT/RACEWAY	
DB-1-48	SOLAR PV	1	25,000.00												32	100	3	10	C	1Rx4C-16mm² Cu/XLPE/SWA/PVC +	CONDUIT/RACEWAY	
DB-1-	SPARE	1	180	180.00	1.00	0.80	0.90	160.00	144.00	230	0.70				16	100	1	6	C			
DB-1-	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								34,102.45	400		54.16	43.95	44.30	-	40	100	3	10	C	4x1C-10mm² PVC/PVC + 10mm² PVC PE	CONDUIT/RACEWAY	
MAIN CONNECTED LOAD(3-phase)							0.9	44,882.89	40,394.60		64.78	52.84	53.38	64.78							-	
Load Calculation		Description		Unit																		
Total 3 Phase Load (DL)		A	64.78																			
Total Active Power (DL)		KW	40.39																			
Safety Factor		%	25%																			
Total 3 Phase Load with Safety Factor		A	80.98																			
125AT, 4P, CURVE C MCCB		%	65%																			
Number of Feeders		No	48																			
Main Breaker Rating		A	125																			

ELECTRICAL LOAD CALCULATION_DB-2

LOAD CALCULATION																						
FEEDER NAME/No: DB-2- (MOSQUE 300 Pax)				MAIN BREAKER : 32AT, 3P, CURVE C MCCB				LOCATION: EE ROOM				ENCLOSURE : POLYCARBONATE, IP55										
SYSTEM VOLTAGE: 400V/230V, 3Ø, 4W+G				MAIN BUS : 63A,3P, Cu. Com. BUSBAR				ENCLOSURE : POLYCARBONATE, IP55				MOUNTING : Wall Mounted										
MAIN. KAIC: 10kA				EARTH FAULT RATING: 40A,30mA, RCCD				MOUNTING : Wall Mounted				CABLE LAYOUT : RUN CONCEALED										
FED FROM (SOURCE): DB-2				MAIN FEEDER SIZE: 1x4C-10mm²Cu/ XLPE/SWA/PVC + 10mm² PE																		
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	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-2-3	LF11.a-LIGHTING FIXTURE IN TIMER SWICTH(T/S)	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-2-4	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-2-5	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-2-6	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-2-7	LF11.a-LIGHTING FIXTURE IN TIMER SWICTH(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	LF05-LIGHTING FIXTURE	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-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										2.90	2.71	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	4,534.51	4,081.06		6.55	5.66	5.97	6.55								-
Load Calculation										List of Equipment												
Description								Unit	Qty													
Total 3 Phase Load (DL)								A	1													
Total Active Power (DL)								KW	1													
Safety Factor								%														
Total 3 Phase Load with Safety Factor								A														
32AT, 3P, CURVE C MCCB								%	10													
Number of Feeders								No														
Main Breaker Rating								A														
Busbar Dimensions(mm)								A														
Busbar Rating								A														
								</														

GENERAL NOTES

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CONSULTANT PROJECT NO. R24002MIA

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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 300 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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[illegible]

SEE LOAD SCHEDULE FOR THE CONNECTED LOAD

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INFRA. DESIGNER		
DRAWN BY	CHESTER DIZA PERALTA	
CHECKED BY	MOHAMED EVAN IBRAHIM	
APPROVED BY		

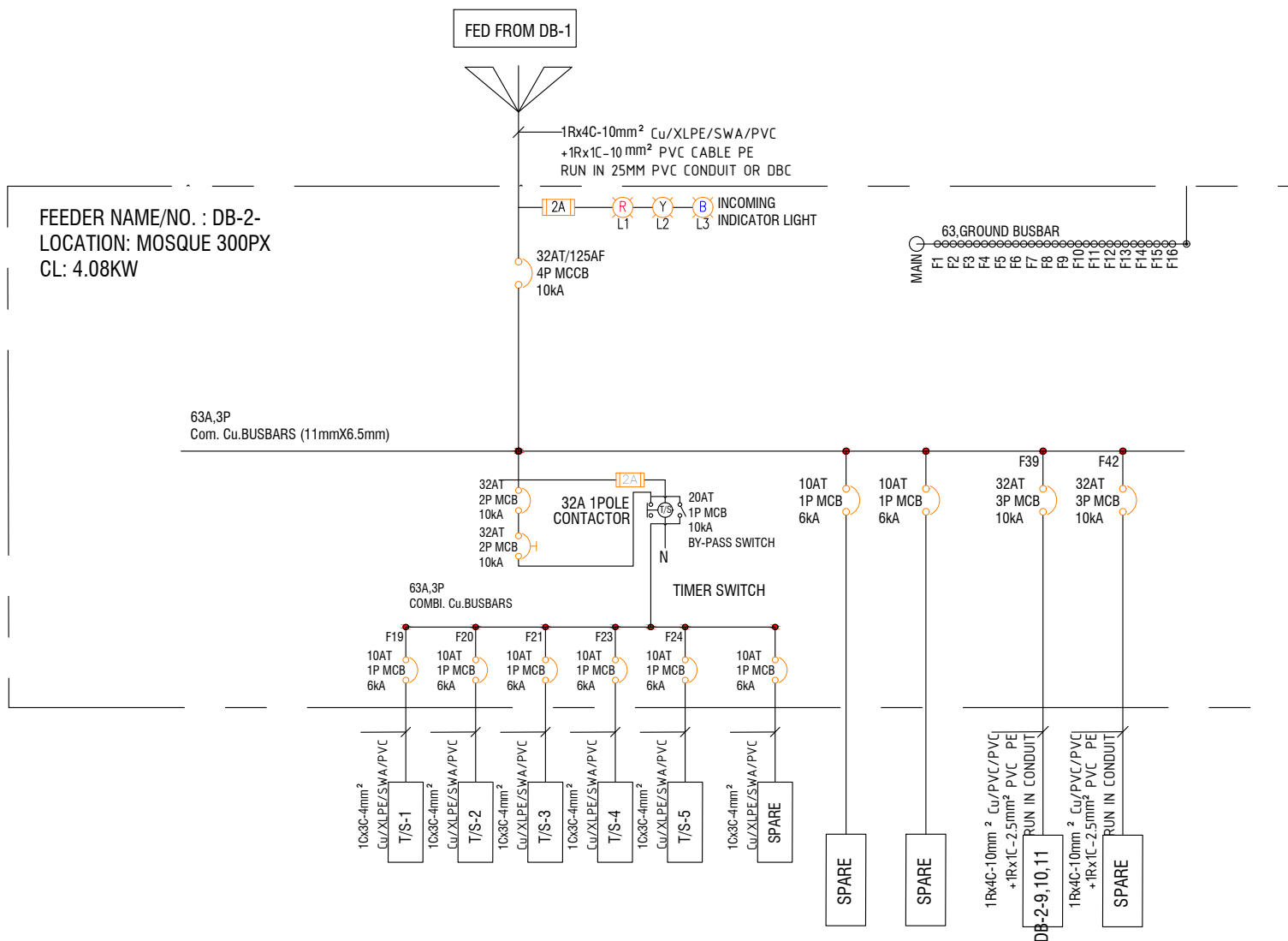
CLIENT	MINISTRY OF ISLAMIC AFFAIRS
DEVELOPER	
ATOLL	
ISLAND	
LAGOON (GPS COORDINATES)	
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DD - DETAIL DESIGN	

BUILDING/STRUCTURE NO.	ISSUE DATE
	29 MAY 2024

SHEET SIZE	A2	SCALE	NTS
SHEET NO. ELE - 08			

ELECTRICAL SINGLE LINE DIAGRAM_DB-1

ELECTRICAL SINGLE LINE DIAGRAM_DB-2



SINGLE LINE DIAGRAM
DB-2 MOSQUE 300px

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MOSQUE FOR 300 PAX				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		29 MAY 2024		
DRAWING TITLES				
ELECTRICAL SINGLE LINE				
DIAGRAM - DB 02				
SHEET SIZE	A2	SCALE NTS		
SHEET NO.				
ELE - 09				
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Project: **Prototype Mosque_300Pax**

Subject: **Illumination Lighting Design calculation**

Revision:

Item	Description	Dimension		Area	Height H(wc)	Required Lux(E)	RFC (%)	Type of Fixtures	Lumens/F ixture(LL)	Room Index	UF	MF	ExA LLxUFxMF	Actual No. of Fitting(N)	Actual Lux
		L	W												
A															
A.1	Hallway														
	Right Side	10.15	1.5	15.225	3	360	80	LF05,17W, 230V, 4000K, WALL LIGHT,IP55	1600	0.435622	0.44	0.8	10	10	360
	Left Side	10.15	1.5	15.225	3	360	80	LF05,17W, 230V, 4000K, WALL LIGHT,IP55	1600	0.435622	0.44	0.8	10	10	360
	Front hall	21.3	1.5	31.95	3	360	80	LF05,17W, 230V, 4000K, WALL LIGHT,IP55	1600	0.467105	0.51	0.8	18	18	360
A.2	Main prayer room														
	Right Side	9.85	3.85	37.92	3	360	80	LF14, 28W, 230V, 4000K, SURFACE MOUNTED DOWNLIGHT TYPE-2	3000	0.922689	0.6	0.8	9	10	360
	Left Side	9.85	3.85	37.92	3	360	80	LF14, 28W, 230V, 4000K, SURFACE MOUNTED DOWNLIGHT TYPE-2	3000	0.922689	0.6	0.8	9	10	360
	Middle	9.85	9.7	95.55	4.5	500	80	LF27, 500W, 230V, 4000K, CHANDELIER	3000	1.086047	0.51	0.8	39	2 set (10 bulb)	500
								LF10, 5W/m, 3000K STRIP LIGHT					4		
								LF14, 28W, 230V, 4000K, SURFACE MOUNTED DOWNLIGHT TYPE-2					16		
A.3	Imam/Idhan area	9.7	2.7	26.19	2.8	250	80	LF20,17W, 230V, 3000K, RECESSED DOWNLIGHT	2600	0.75432	0.37	0.8	9	9	250
A.4	Toilet	3.95	3.8	23.1	2.8	250	80	LF20,17W, 230V, 3000K, RECESSED DOWNLIGHT	2600	0.691705	0.44	0.8	6	6	250

ELECTRICAL ILLUMINATION CALCULATION

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BUILDING/STRUCTURE NO.	ISSUE DATE
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DRAWING TITLES

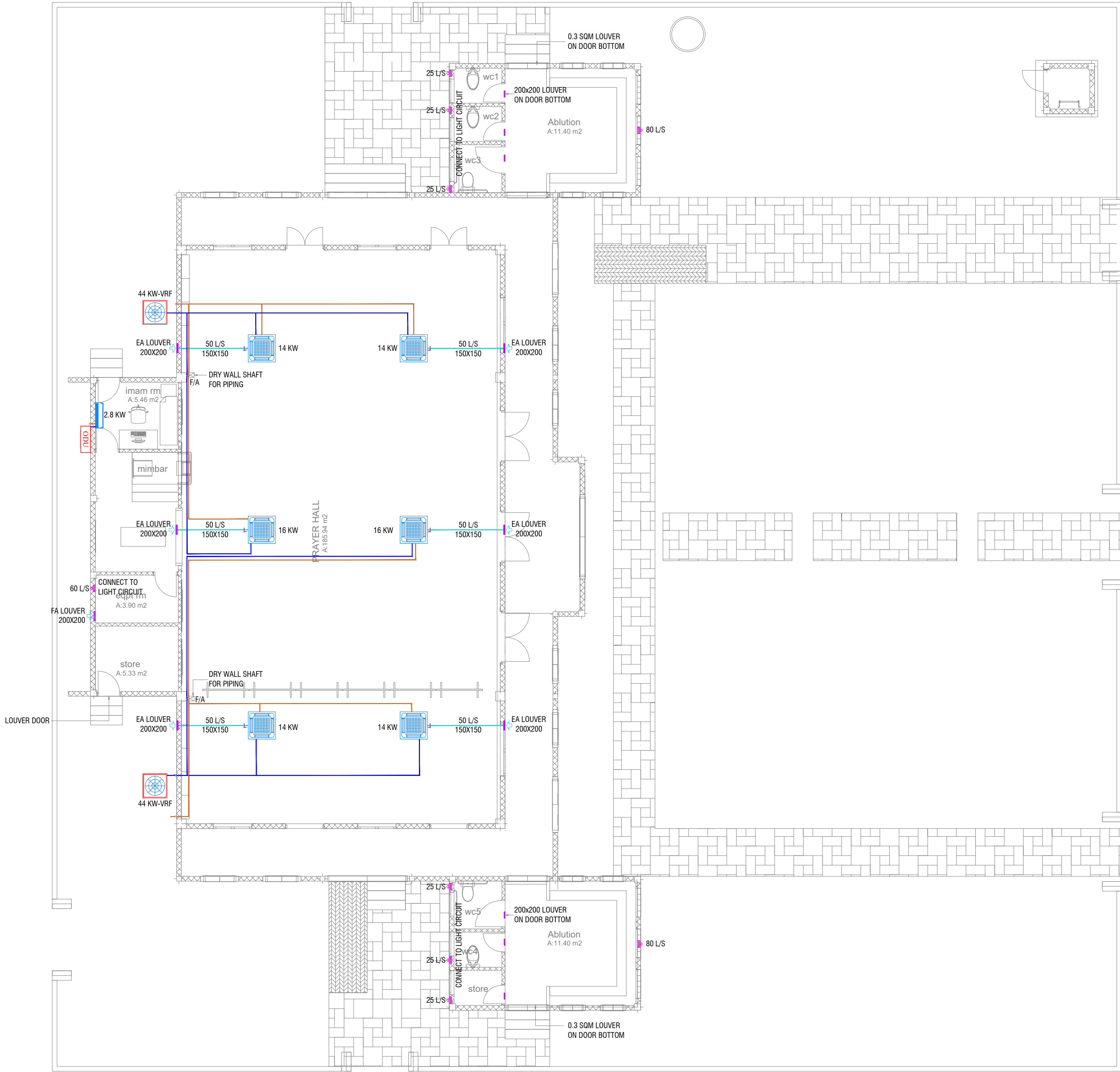
ELECTRICAL ILLUMINATION CALCULATION

SHEET SIZE	A2	SCALE	NTS
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SHEET NO.

ELE - 10

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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 DECRPTION	COOLING LOAD [KW]	INDOOR UNIT	OUTDOOR UNIT	FRESH AIR	EXHAUST AIR [L/S]
Prayer Hall	88.0	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

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CONSULTANT PROJECT NO.	R24002MIA
ARCHITECT	ISMAIL RASHEED
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 300 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.

PLUMBING NOTES AND LEGENDS








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

WASTE PIPE DRAINAGE LEGENDS:

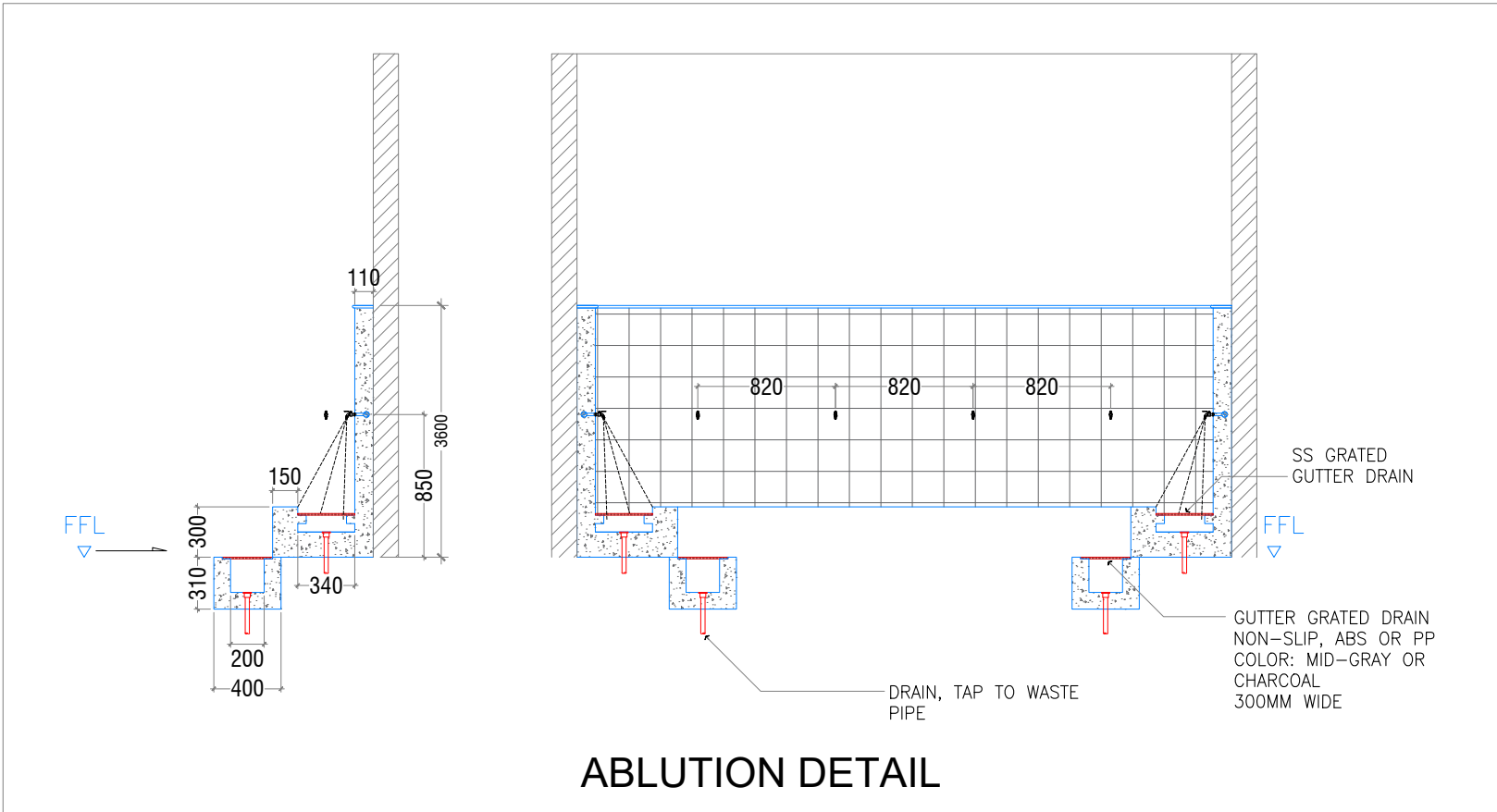
SYMBOL	DESCRIPTION
	SOIL PIPE
	WASTE PIPE
	VENT PIPE
	STACK
	VENT STACK THRU ROOF
	GROUND OR FLOOR CLEAN OUT
	CEILING CLEAN OUT
	WALL CLEAN OUT
	FLOOR DRAIN OR GULLY
	SLOPE – FLOW DIRECTION
SP / SS	SOIL PIPE / SOIL STACK
WP / WS	WASTE PIPE / WASTE STACK
VP / VS	VENT PIPE / VENT STACK
VSTR	VENT STACK 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

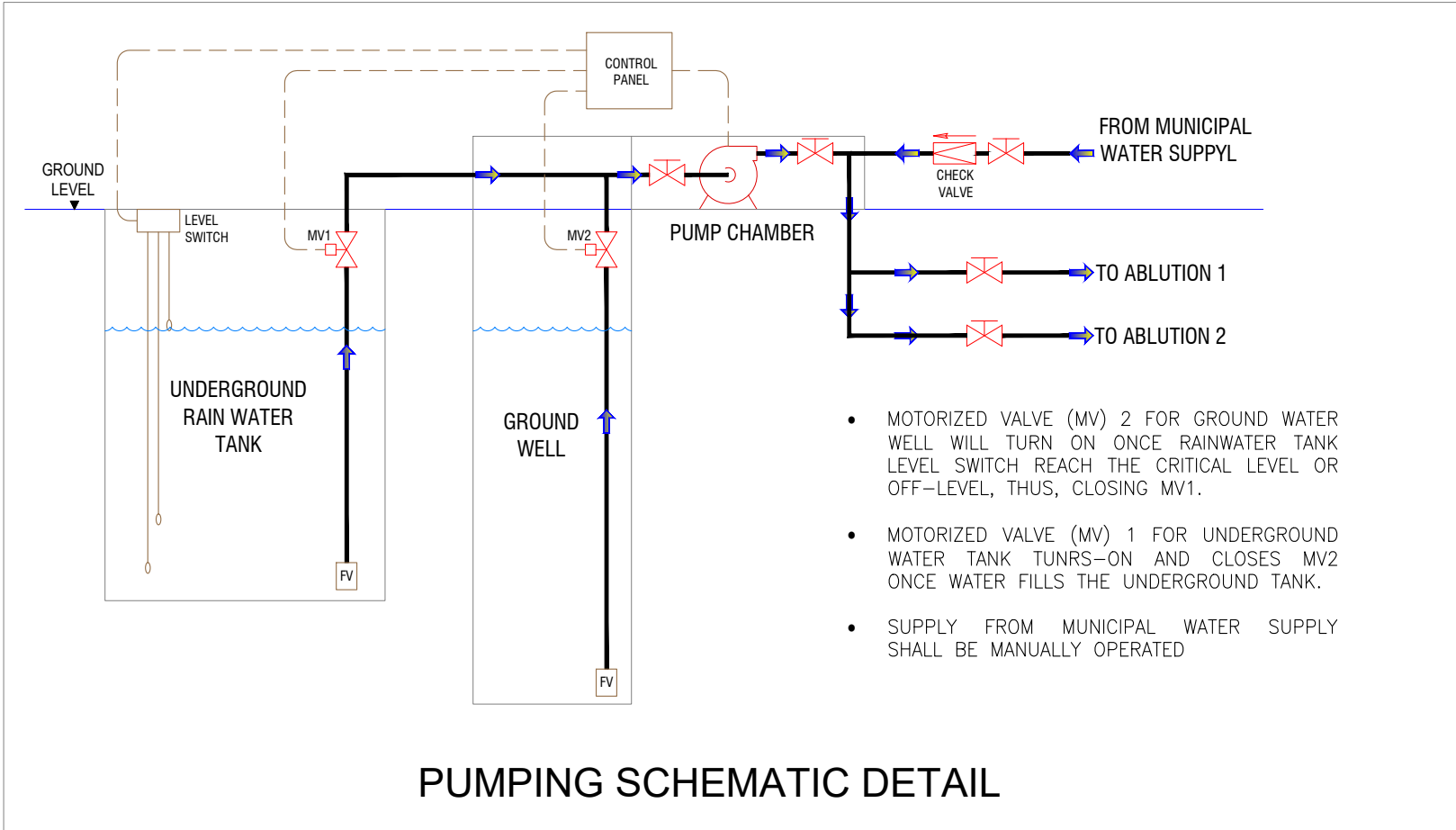
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REVISIONS				
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CONSULTANT				
LEAD CONSULTANT				
RIYAN PVT LTD				
DESIGN CONSULTANT				
REGISTERED LOCAL CONSULTANT				
<div></div> <div>RIYAN PRIVATE LIMITED</div> <div>www.riyan.com.mv</div>				
CONSULTANT PROJECT NO.		R24002MIA		
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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)				
ISSUED FOR				
DD - DETAIL DESIGN				
BUILDING NAME				
MOSQUE FOR 300 PAX				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		29 MAY 2024		
DRAWING TITLES				
PLUMBING NOTES AND LEGENDS				
SHEET SIZE		A2	SCALE NTS	
SHEET NO.				
PL - 01				
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ABLUTION DETAIL:



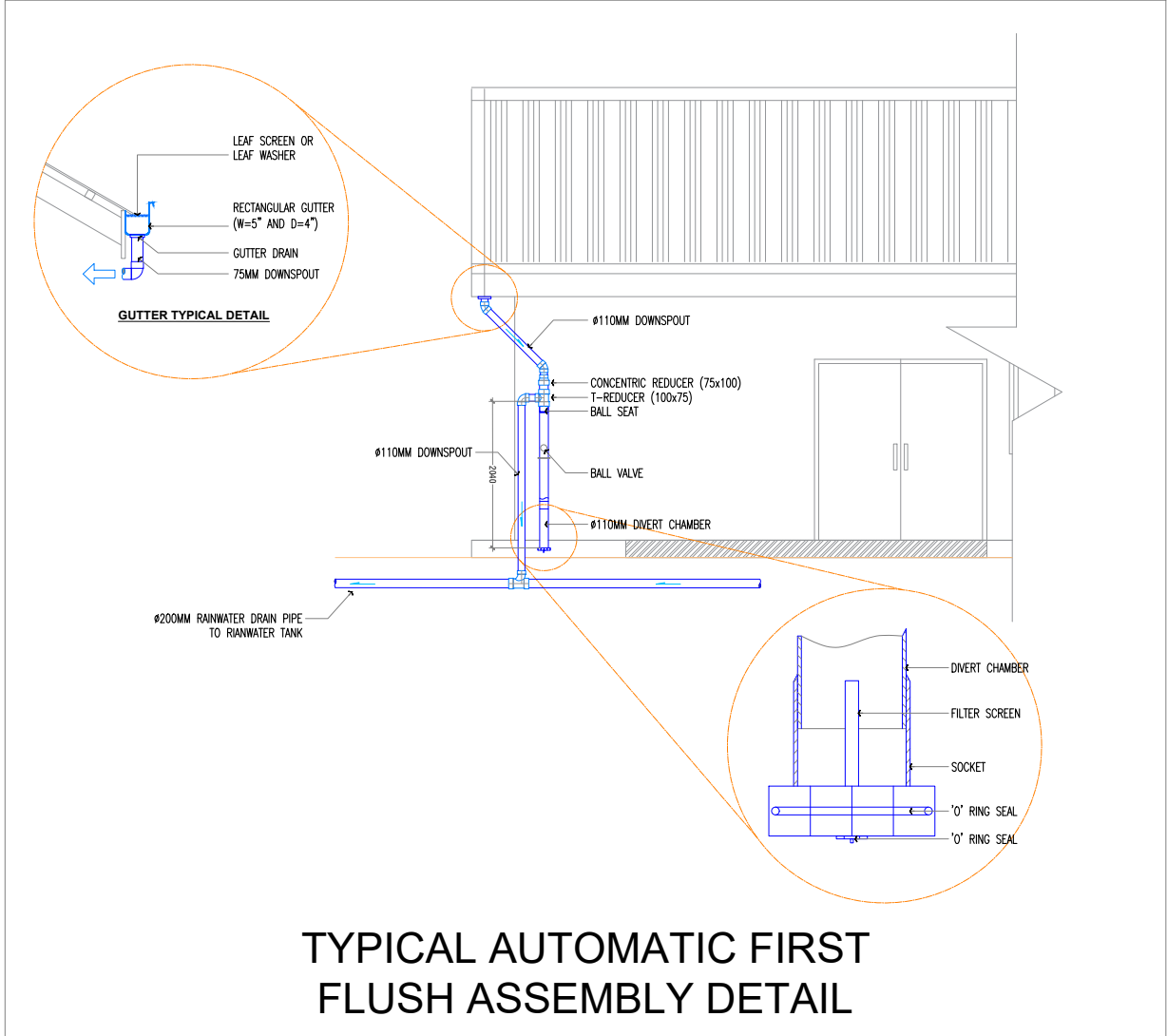
ABLUTION DETAIL

PUMPING SCHEMATIC DETAIL:



PUMPING SCHEMATIC DETAIL

TYPICAL AUTOMATIC FIRST FLUSH ASSEMBLY DETAIL:

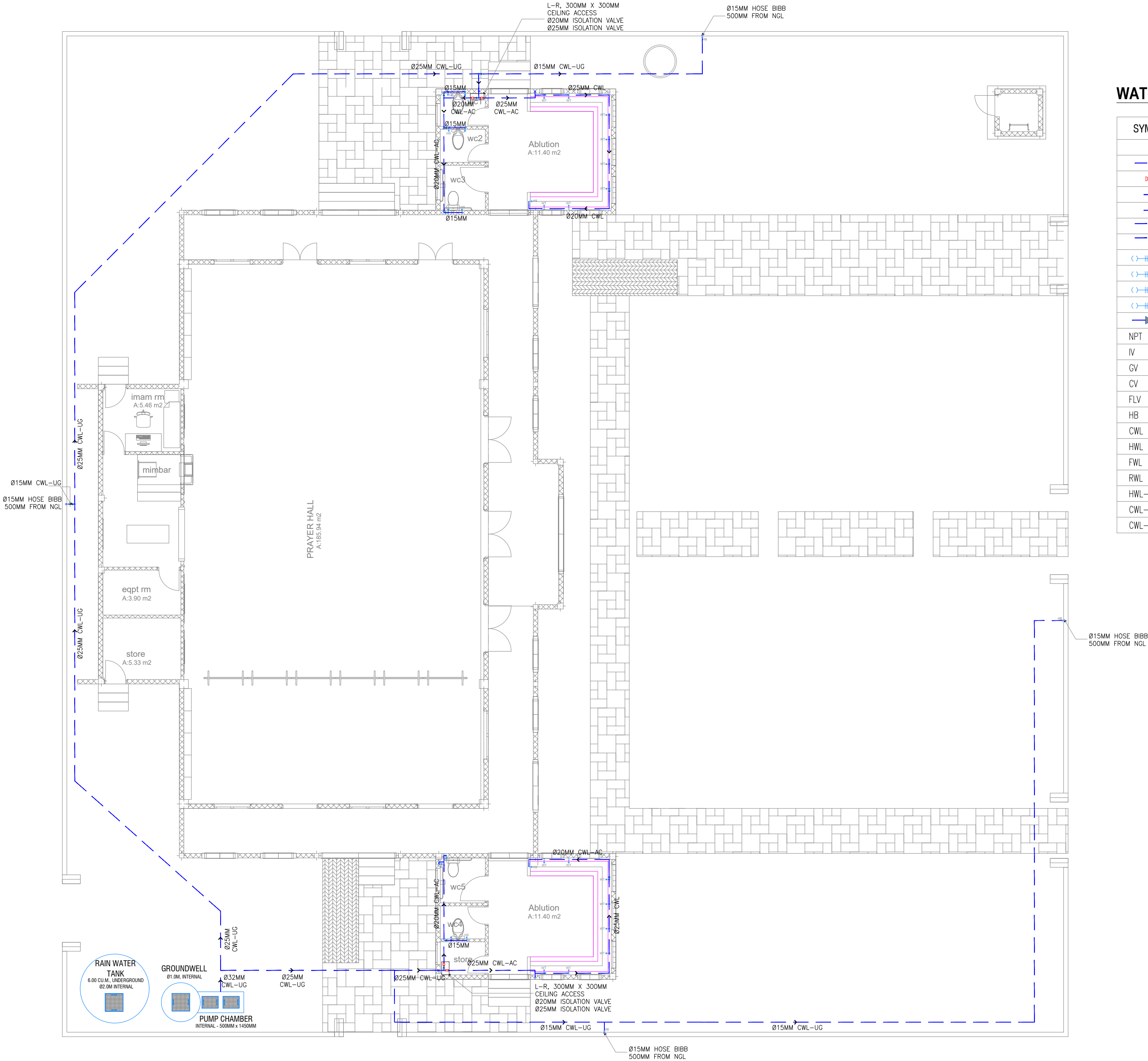


TYPICAL AUTOMATIC FIRST FLUSH ASSEMBLY DETAIL

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 ³ /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	

GENERAL NOTES				
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REVISIONS				
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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
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HWL-RL	HWL - RETURN LINE
CWL-AC	CWL - ABOVE CEILING
CWL-UG	CWL - UNDERGROUND

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LEAD CONSULTANT

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DESIGN CONSULTANT

REGISTERED LOCAL CONSULTANT

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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)

ISSUED FOR

DD - DETAIL DESIGN

BUILDING NAME

MOSQUE FOR 300 PAX

BUILDING/STRUCTURE NO.	ISSUE DATE
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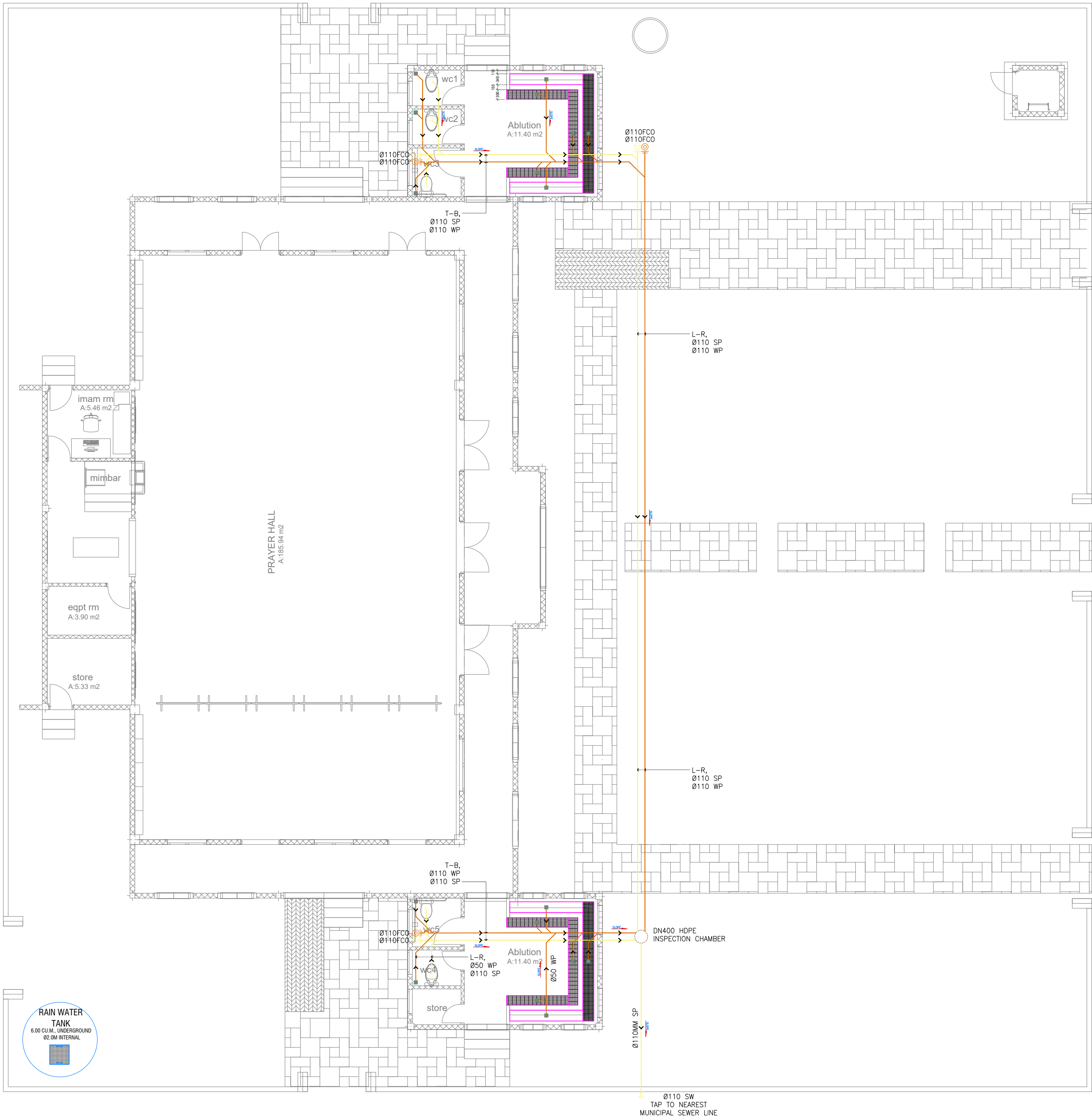
DRAWING TITLES

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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INFRA DESIGNER	
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APPROVED BY	

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PROTOTYPE MOSQUES

CLIENT

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DEVELOPER

ATOLL

ISLAND

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ISSUED FOR

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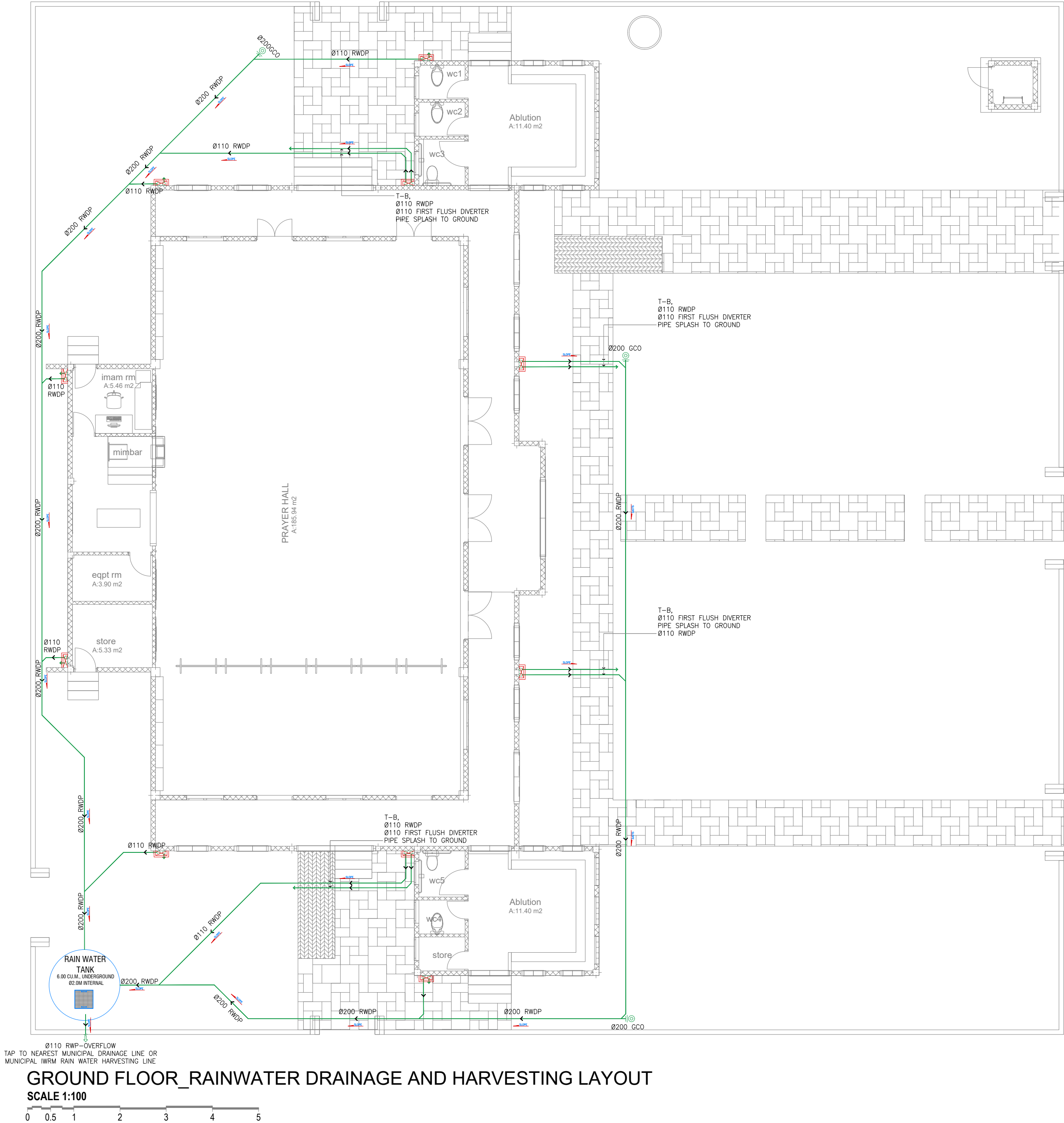
DRAWING TITLES

GROUND FLOOR

WASTE PIPE DRAINAGE LAYOUT

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

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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

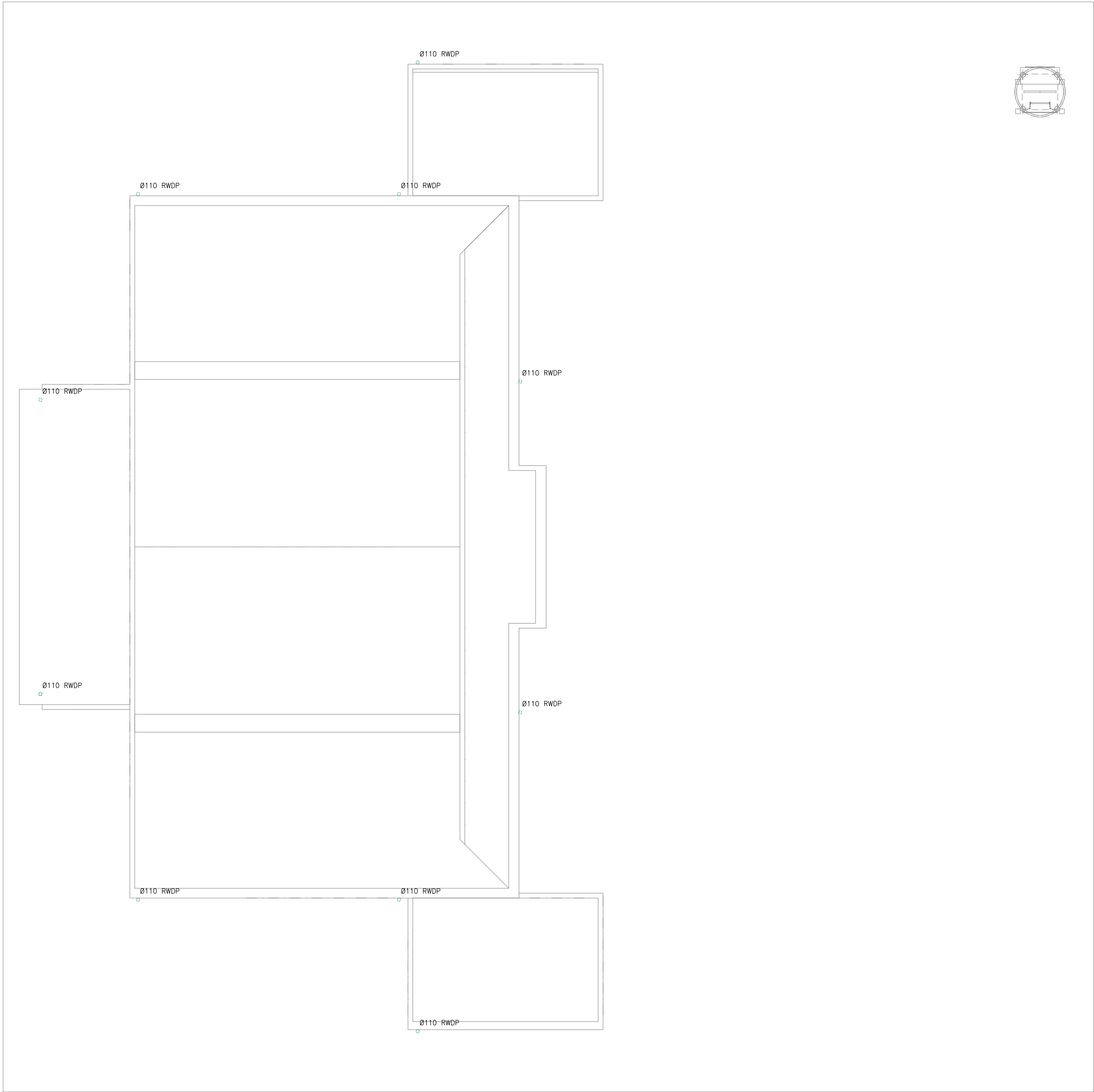
NOTE:

- 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.

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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
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DD - DETAIL DESIGN				
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MOSQUE FOR 300 PAX				
BUILDING/STRUCTURE NO.		ISSUE DATE		
		29 MAY 2024		
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
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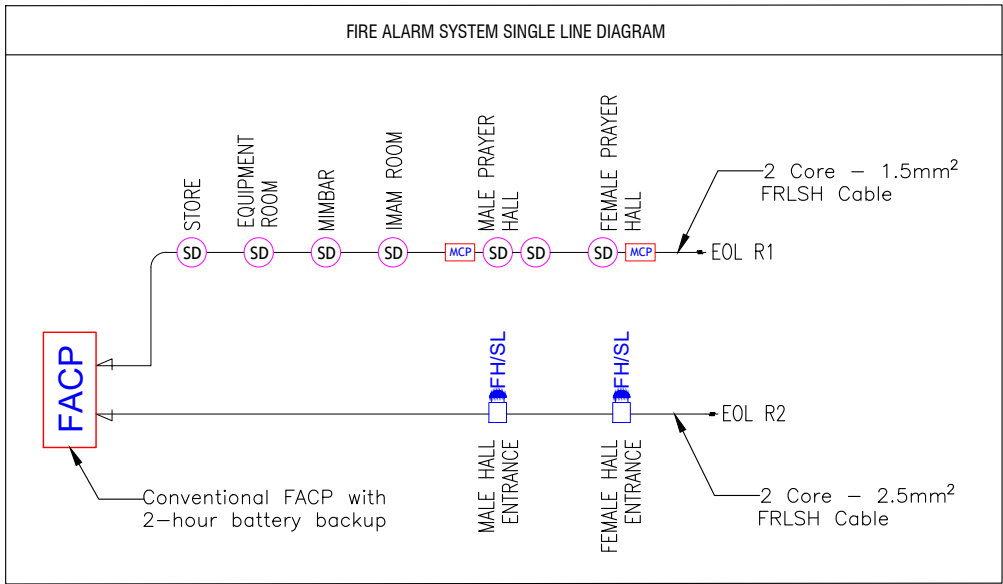
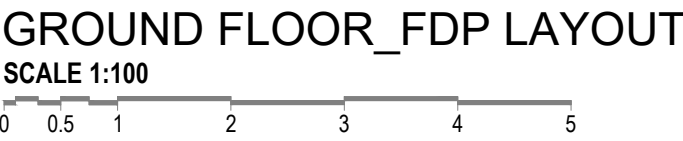
DRAWING TITLES

ROOF

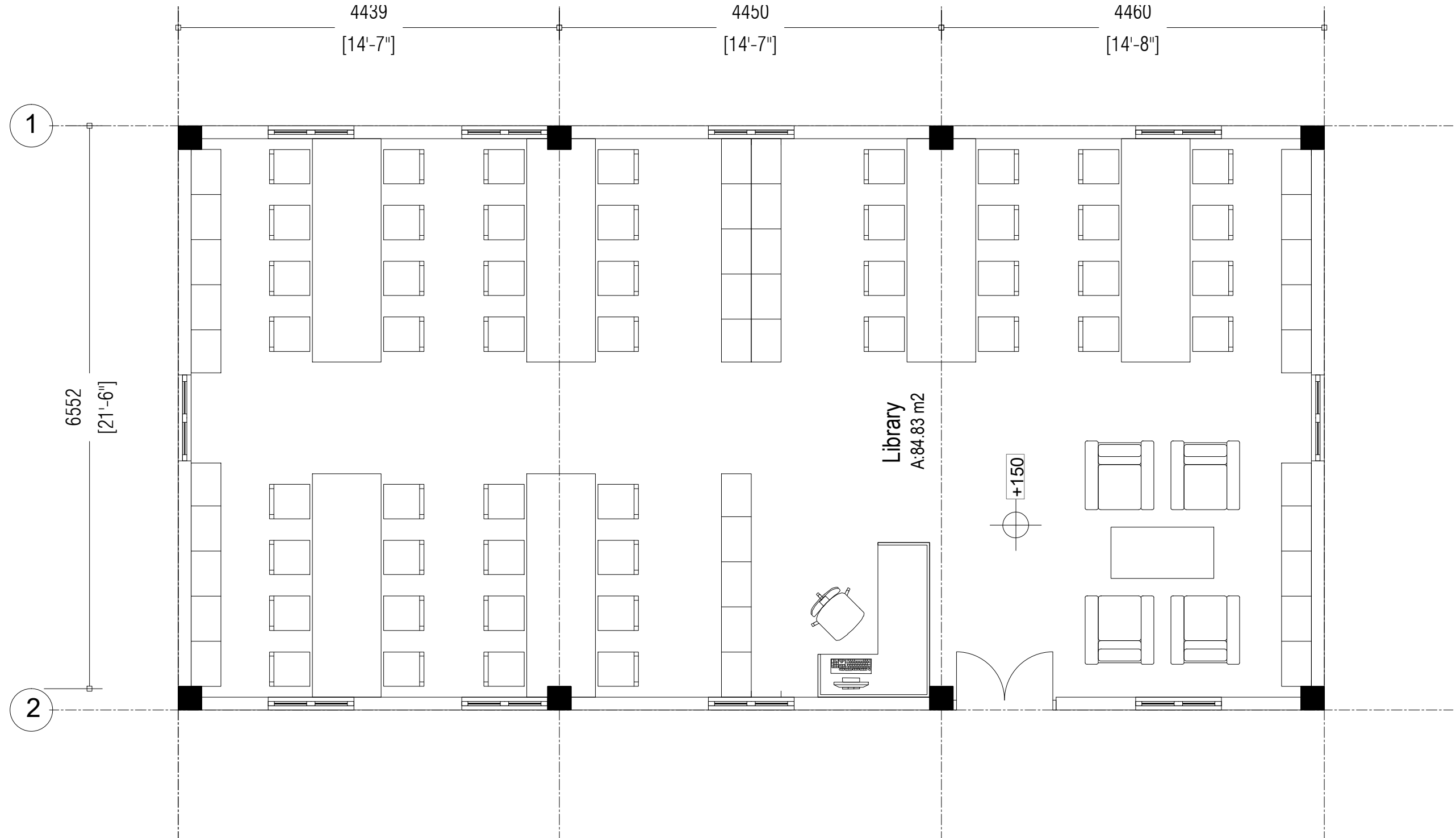
RAINWATER DRAINAGE AND HARVESTING LAYOUT

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

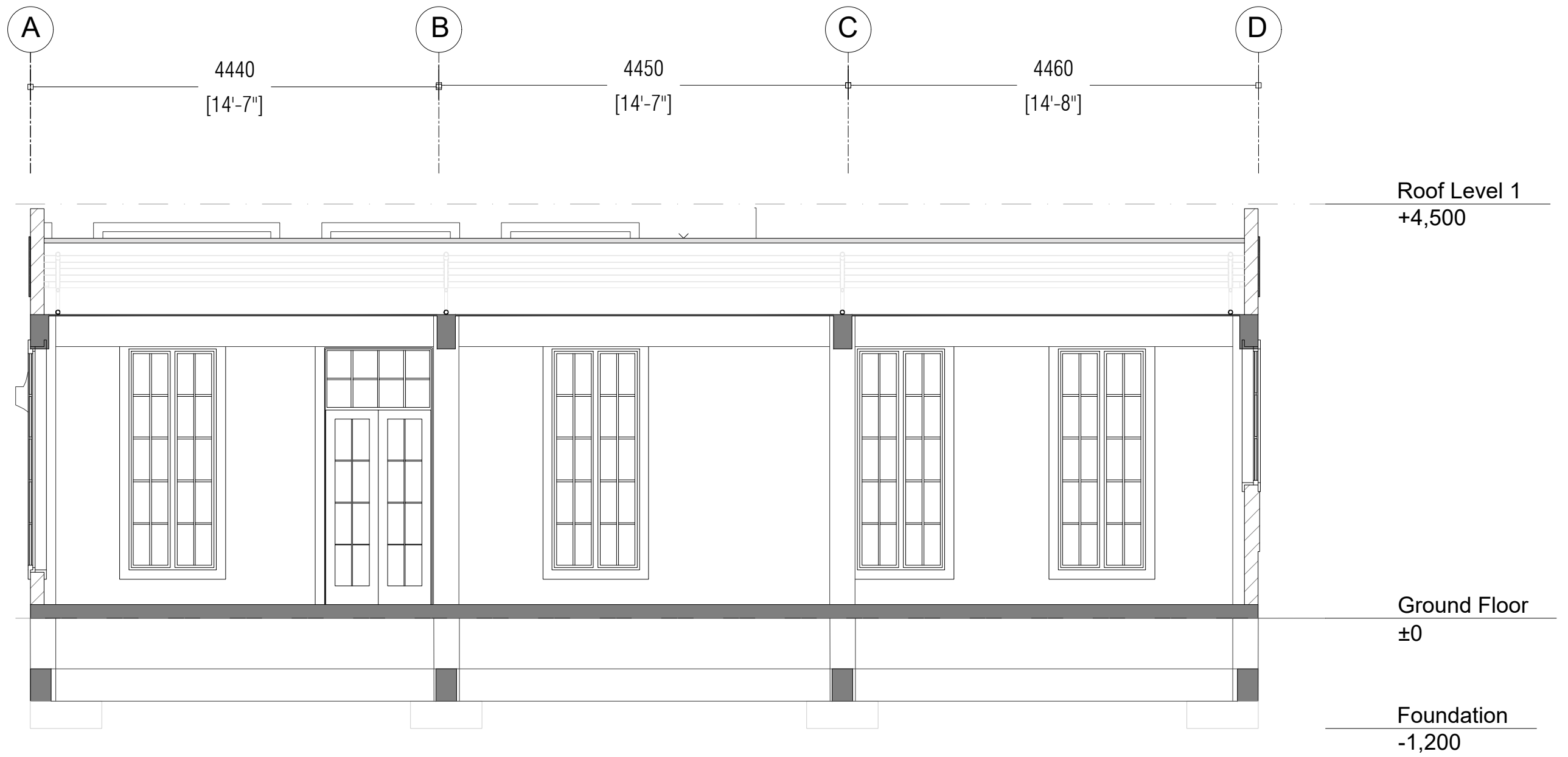
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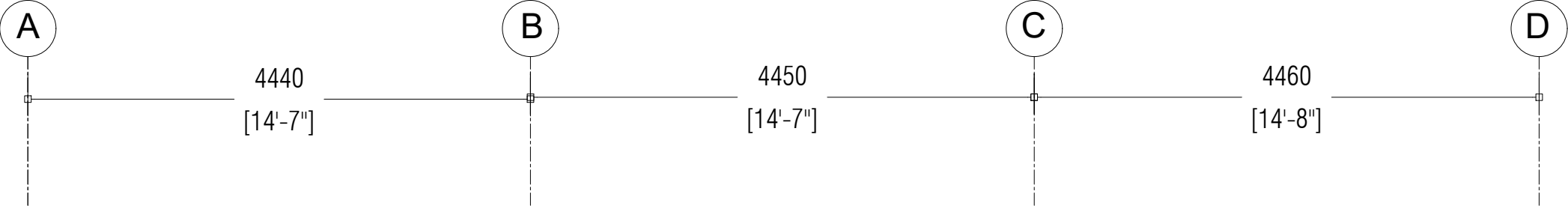
LIBRARY



FLOOR PLAN
1:100



SECTIONAL VIEW
1:100

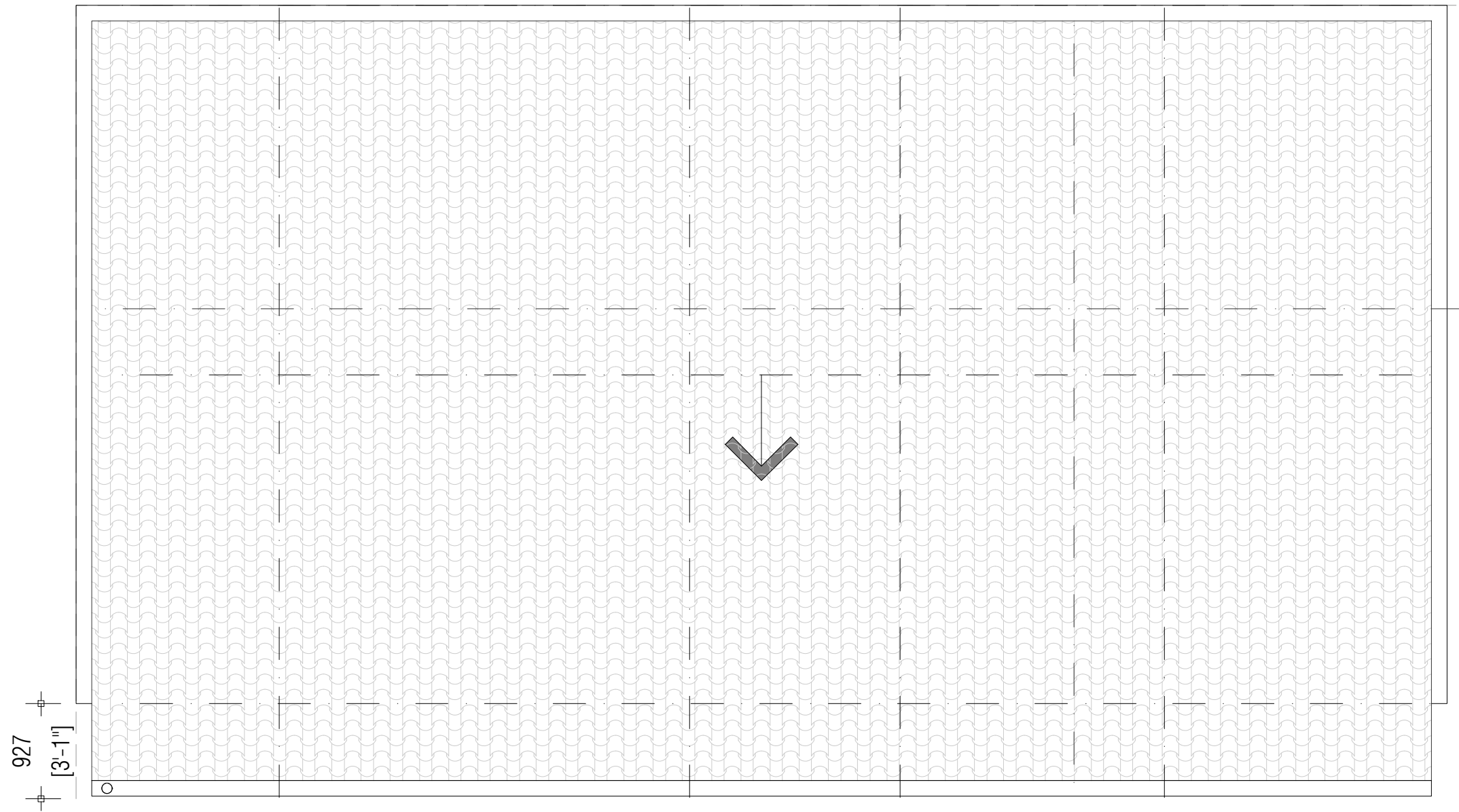


Roof Level 1
+4,500

Ground Floor
±0

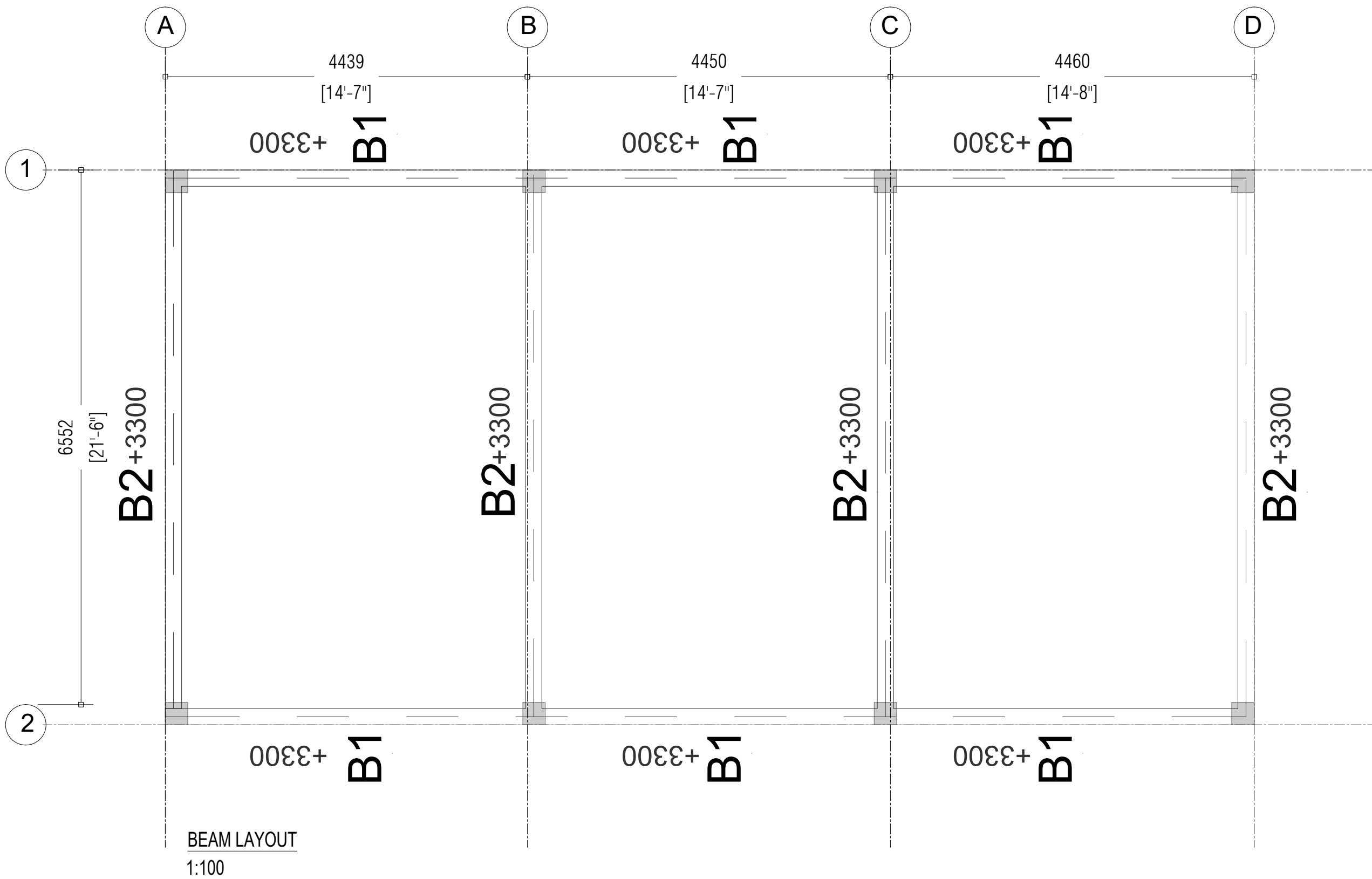
Foundation
-1,200

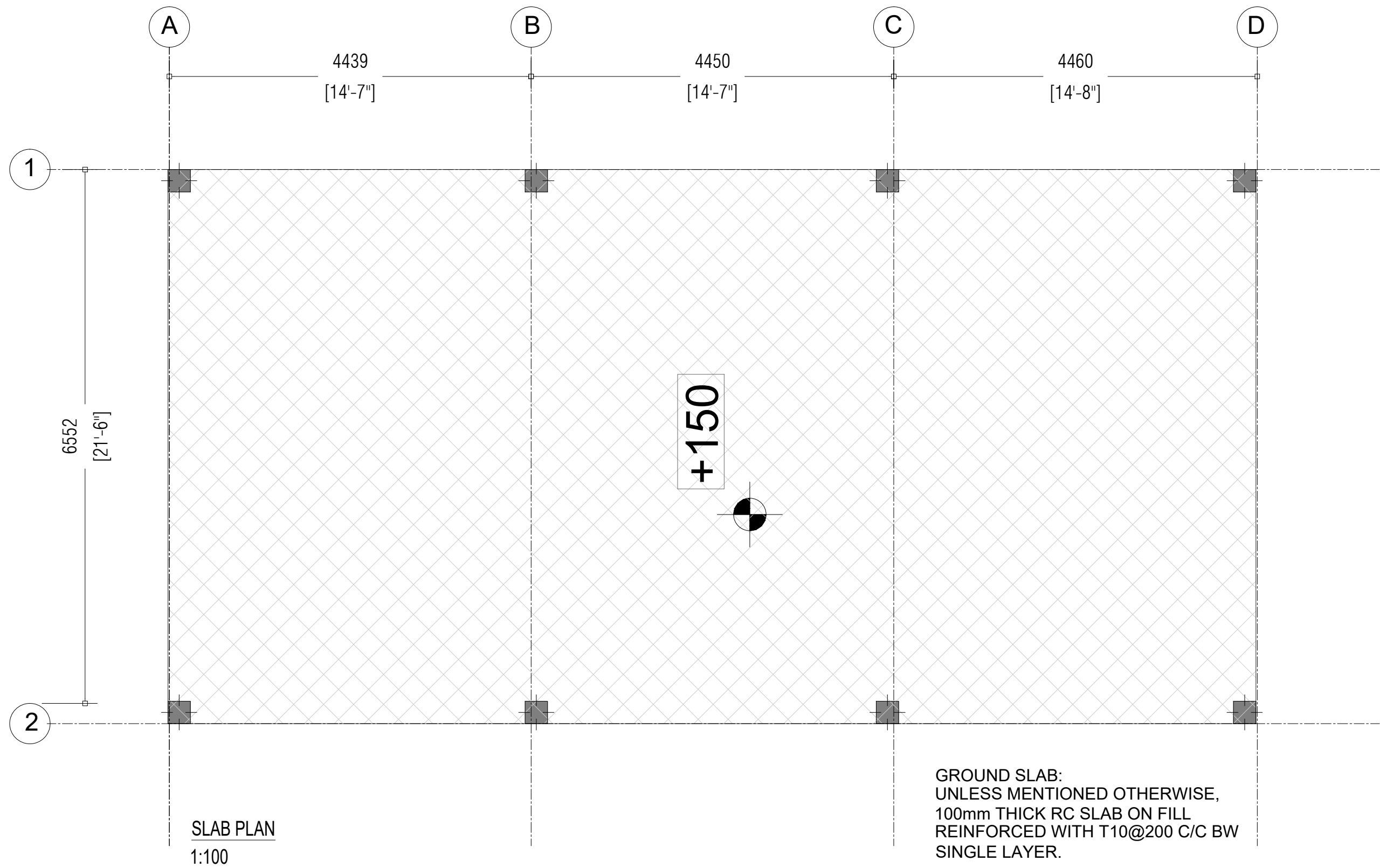
ELEVATION
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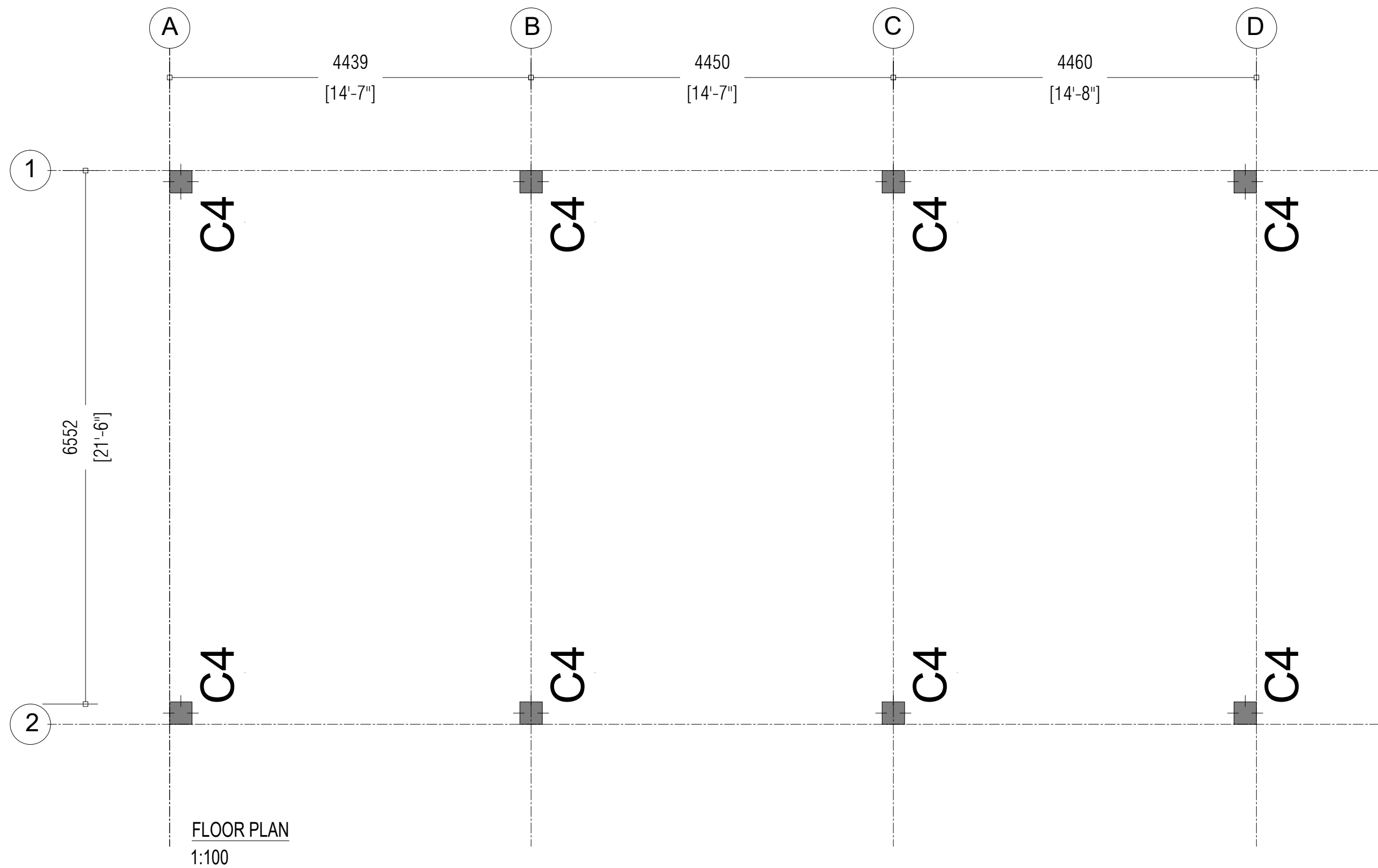


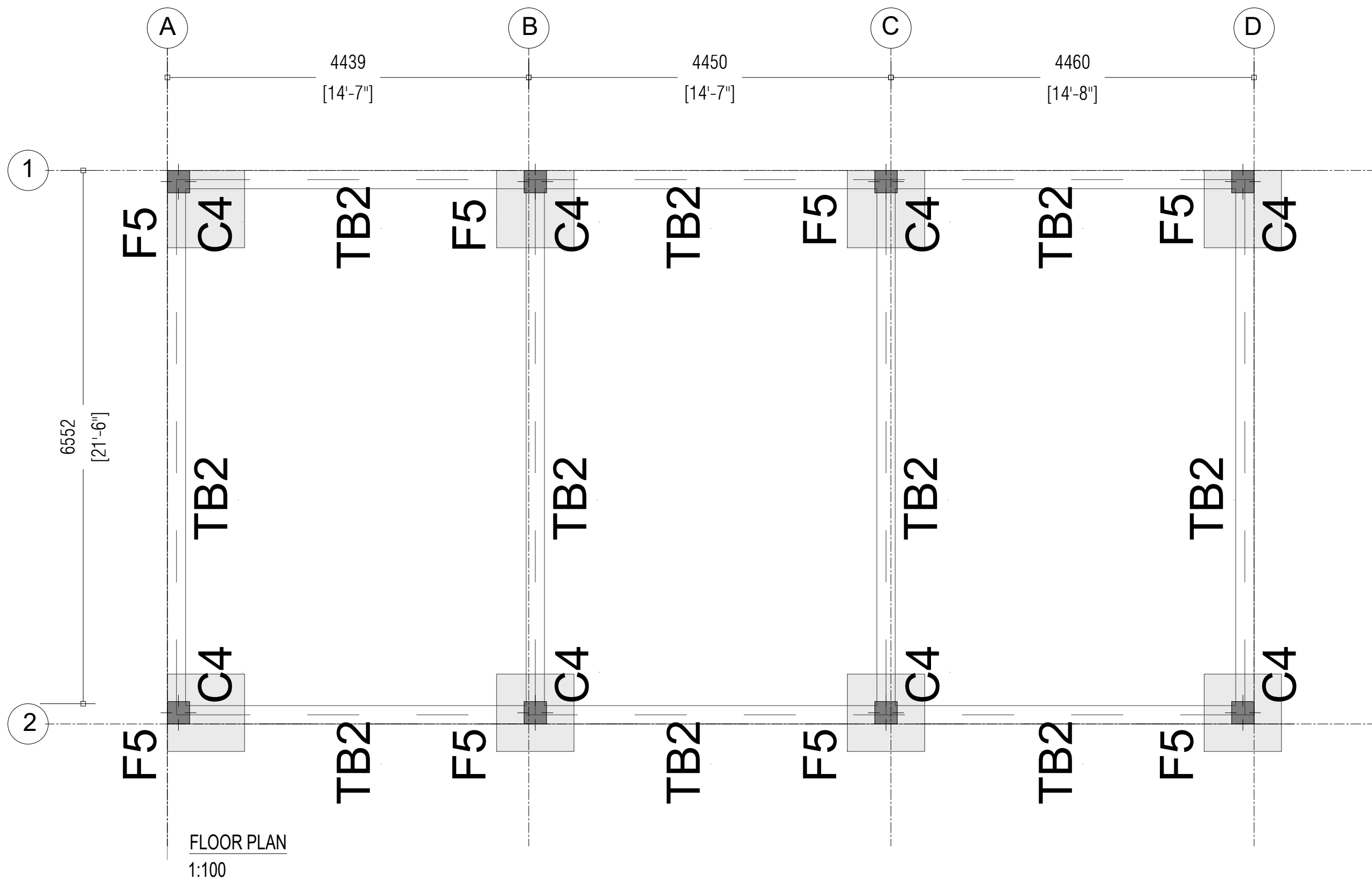
927
[3'-1"]

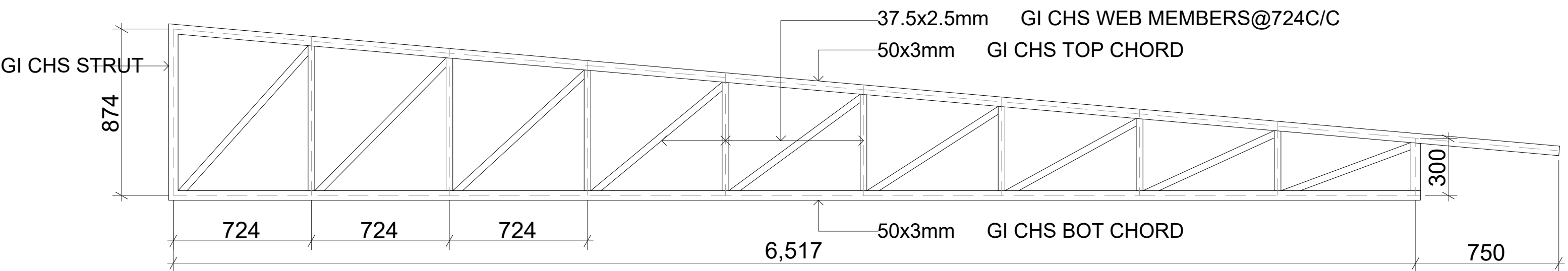
ROOFING PLAN
1:100



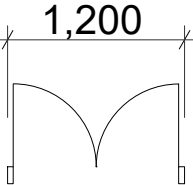
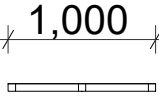
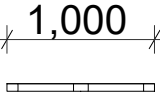
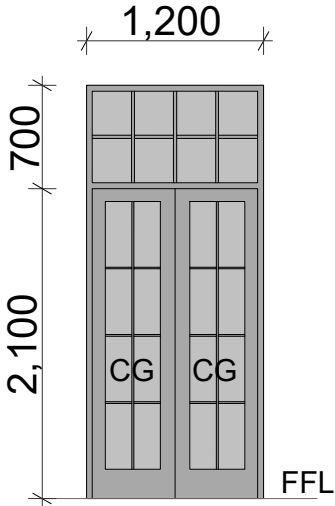
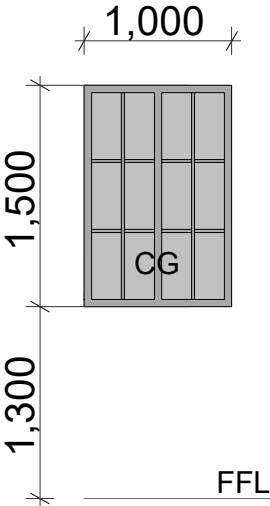
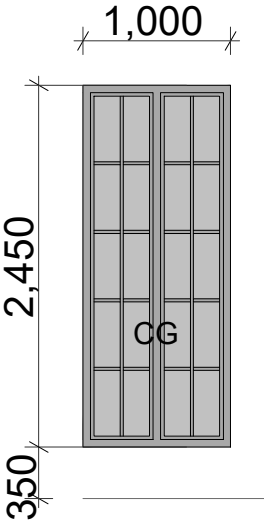












TRUSS T3

2D Symbol			
			
Element ID	D6	W4	W5
Element Type	Alum. Glazed Door	Alum. Glazed Window	Alum. Glazed Window
Remarks			
Location	Library	Library	Library
Quantity	1	6	5
Area (m2)	3.36	1.5	2.45



GENERAL NOTES :

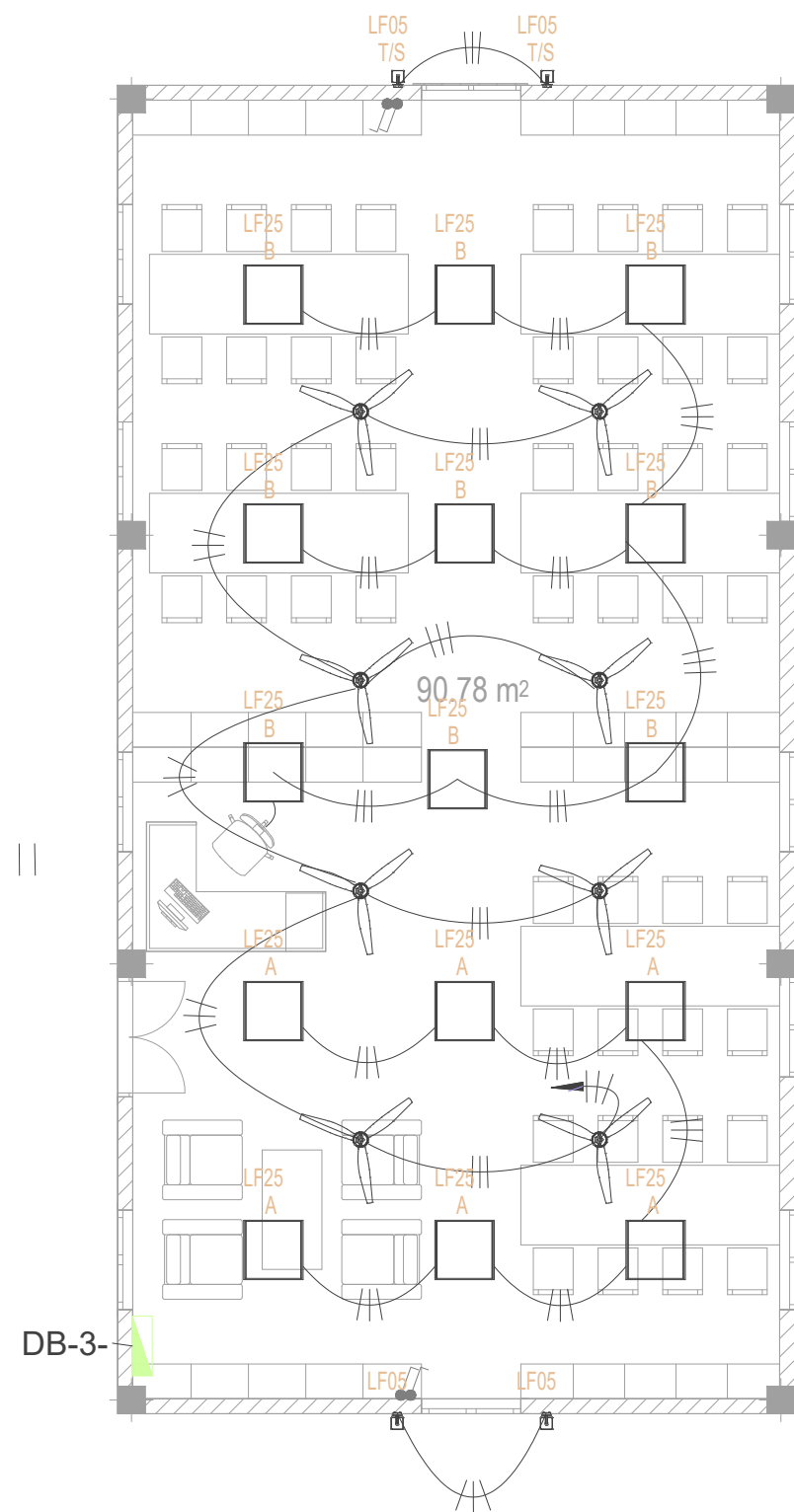
1. ALL LIGHTS & POWER POINTS SHALL BE CONNECTED TO THEIR RESPECTIVE CIRCUIT HOME RUN AS PER THE LIGHTING & POWER LAYOUT.
2. CONTRACTOR TO PREPARE SHOP DRAWINGS AND GET APPROVAL FROM CONSULTANT/PROJECT MANAGER FOR ALL LIGHTS, SWITCHES, DB, PANEL BOARD, EAC, REQUIRED ISOLATORS, ACV SERVICES AND OTHER RELEVANT LIGHTING AND POWER POINT LOCATIONS INCLUDING CONDUIT AND WIRING AND TO BE VERIFIED AT SITE PRIOR TO CONSTRUCTION.
3. 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.
4. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ELECTRICAL POWER REQUIREMENTS AND POWER POINTS FOR MECHANICAL VENTILATION DEVICES TO ELECTRICAL CONTRACTOR.
5. 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
6. ALL ELECTRICAL COMPONENT CONNECTED TO THEIR RESPECTIVE DB.
7. POLYCARBONATE ENCLOSURE TO ALL SWITCH AND SOCKET WHICH ARE LOCATED OUTDOOR.
8. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ACMV CONTRACTOR FOR POWER REQUIREMENTS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL OTHER SERVICES.
10. CONTRACTOR SHALL BE RESPONSIBLE TO MODIFY CHANGE, REROUTE RELOCATE AS PER SITE CONDITION AND SUBMIT SHOP DRAWINGS FOR APPROVAL.
11. CONTRACTOR TO PROVIDE DETAIL SHOP DRAWINGS PRIOR TO INITIATE WORKS ON SITE.

LEGEND (POWER)

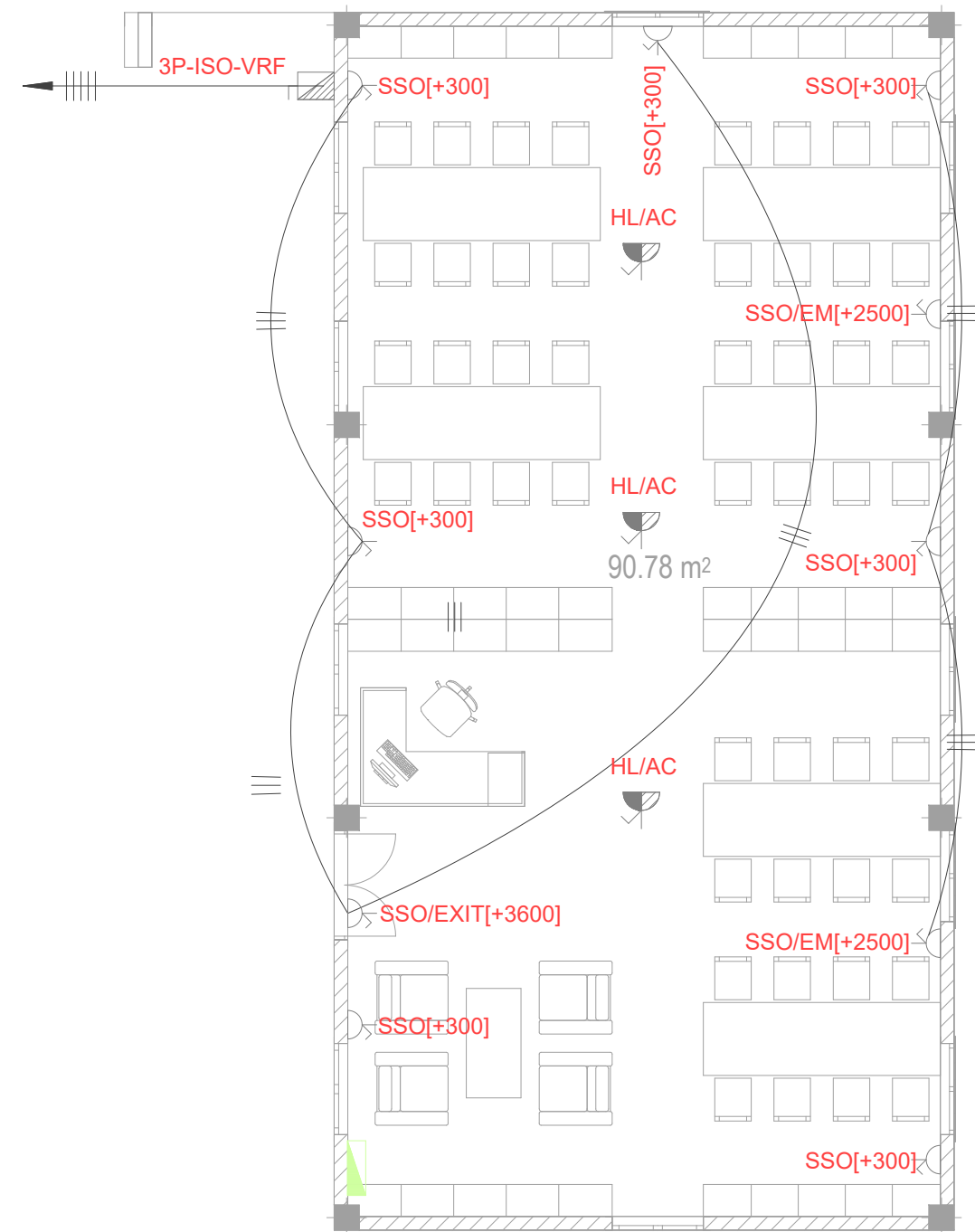
SYMBOL	CODE	DESCRIPTION
	SSO	13A, SWITCH TYPE, SINGLE POWER OUTLET
	TSO	13A, SWITCH TYPE, DOUBLE POWER OUTLET
	AC	15A, SWITCH TYPE, SINGLE POWER OUTLET
	USB	2 NO. USB CHARGER PORT

LEGEND (LIGHTING)

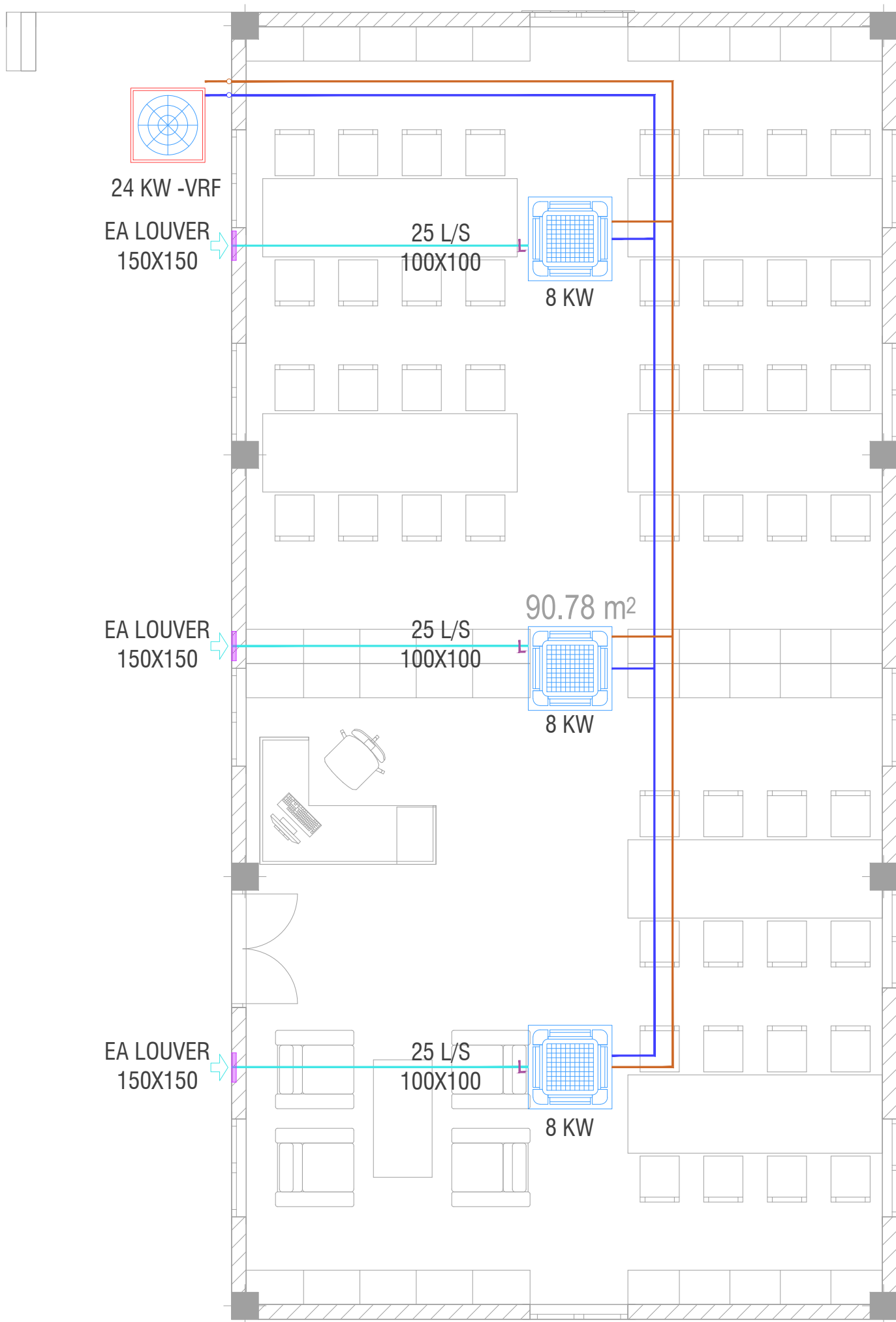
SYMBOL	CODE	DESCRIPTION
	LF05	17W, 230V, 4000K, WALL LIGHT,IP55
	LF25	18W, 230V, 3000K, CEILING MOUNTED RECESSED LIGHT



GROUND FLOOR_LIGHTING LAYOUT



GROUND FLOOR_POWER LAYOUT



ACMV LEGEND



CASSETTE UNIT



OUTDOOR UNIT

ACMV NOTES

1. 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.
2. THE AC UNIT SHALL BE SUITABLE FOR OPERATION UNDER TROPICAL CONDITION WITH AMBIENT TEMPERATURE AND RELATIVE HUMIDITY.
3. ALL ACMV EQUIPMENTS SHALL BE ANTI-CORROSIVE COATED.
4. FINAL INDOOR AND OUTDOOR CONFIGURATION SELECTION SHALL BE AS PER MANUFACTURE'S RECOMMENDATION
5. PROPER ACCESS FOR EASY MAINTENANCE TO BE PROVIDED AS RECOMMENDED BY THE MANUFACTURER OF EQUIPMENTS ABOVE FALSE CEILING.
6. ALL CEILING SUSPENDED UNIT TO BE PROVIDED WITH ANTI-VIBRATION HANGERS (SPRING TYPE).
7. 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
8. ALUMINUM CLADDING TO BE PROVIDED OVER THE INSULATION FOR THE EXPOSED DUCT AND PIPE WORKS.
9. U-TRAP SHALL BE PROVIDED IN THE DRAIN PIPING (WHEREVER REQUIRED).
10. AIR OUTLET SHALL BE COMPLETELY FACTORY ALUMINUM EXTRUDED WITH POWDER COATED AND THE COLOR SHALL BE THE APPROVAL OF THE INTERIOR DESIGN.
11. LOUVER WITH BIRD SCREEN TO BE PROVIDED FOR ALL THE FRESH AIR AND EXHAUST AIR DUCT.
12. LOUVER WITH BIRD SCREEN AND FILTER TO BE PROVIDED FOR ALL THE FRESH AIR FAN DUCT
13. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ELECTRICAL POWER REQUIREMENTS TO ELECTRICAL CONTRACTOR.
14. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DRAINAGE PIPING WITH PLUMBING CONTRACTOR.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL OTHER SERVICES.
16. CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATING THE STATIC PRESSURE.
17. 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.
18. CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS BEFORE STARTING WORKS.

ACVM