

REPUBLIC OF THE PHILIPPINES  
**DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**  
REGION IV-B, MIMAROPA  
MARINDUQUE DISTRICT ENGINEERING OFFICE  
BOAC, MARINDUQUE

C.Y 2025 PROJECT  
DETAILED ENGINEERING DESIGN PLAN FOR  
**LOCAL PROGRAM - NATIONAL BUILDING PROGRAM**  
**BUILDINGS AND OTHER MULTIPURPOSE / FACILITIES STRUCTURE**  
**CONSTRUCTION OF DPWH BUILDING, MARINDUQUE DISTRICT**  
**ENGINEERING OFFICE, BOAC, MARINDUQUE**

SUBMITTED:

\_\_\_\_\_  
FERNAN S. DIAZ

CHIEF, PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

\_\_\_\_\_  
RYAN N. DELA CRUZ

OIC - ASSISTANT DISTRICT ENGINEER

DATE:

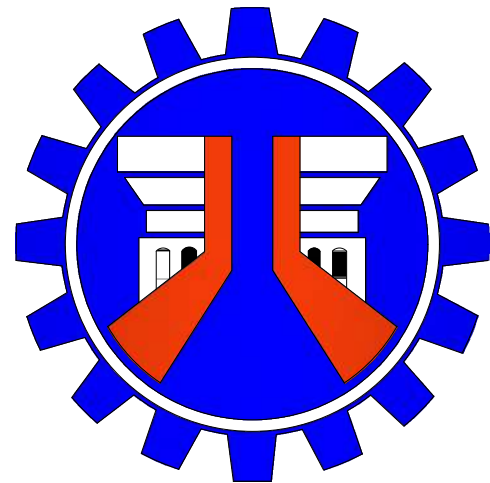
APPROVED:

\_\_\_\_\_  
RICHARD EMMANUEL P. RAGRAGIO

DISTRICT ENGINEER

DATE:





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**DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**  
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MARINDUQUE DISTRICT ENGINEERING OFFICE  
BOAC, MARINDUQUE

**LOCAL PROGRAM - NATIONAL BUILDING PROGRAM**  
**BUILDINGS AND OTHER MULTIPURPOSE / FACILITIES STRUCTURE**  
**CONSTRUCTION OF DPWH BUILDING, MARINDUQUE DISTRICT**  
**ENGINEERING OFFICE, BOAC, MARINDUQUE**



P E R S P E C T I V E

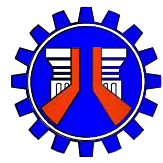
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PROJECT NAME AND LOCATION:  
**REHABILITATION/IMPROVEMENT OF  
ACCESSIBILITY FACILITIES FOR  
PHYSICALLY CHALLENGED  
PERSONS, BARANGAY  
BANGBANGALON BOAC,  
MARINDUQUE**

SHEET CONTENTS:  
  
PERSPECTIVE  
TABLE OF CONTENTS

DRAFTED BY:  
**KYLE ADRIAN M. JAGONG**  
DRAFTSMAN I  
  
PREPARED BY:  
**JAN HENRY R. ROSALES**  
ARCHITECT II

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**JINKIE M. MONTERAS**  
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DATE:

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**FERNAN S. DIAZ**  
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SECTION  
  
DATE:

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OIC - ASSISTANT DISTRICT ENGINEER  
  
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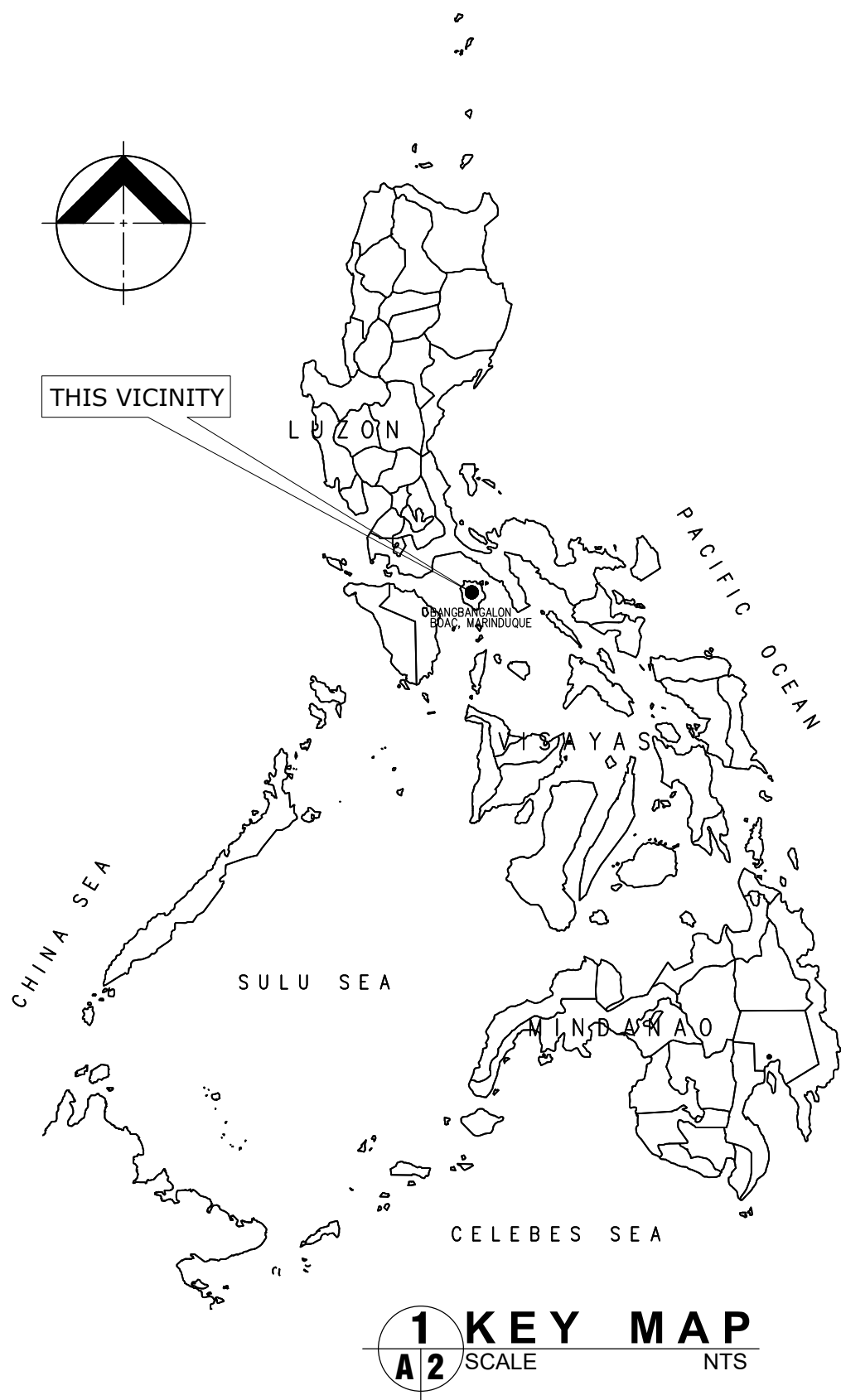
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DISTRICT ENGINEER  
  
DATE:

CONCURRED BY:  
  
DATE:

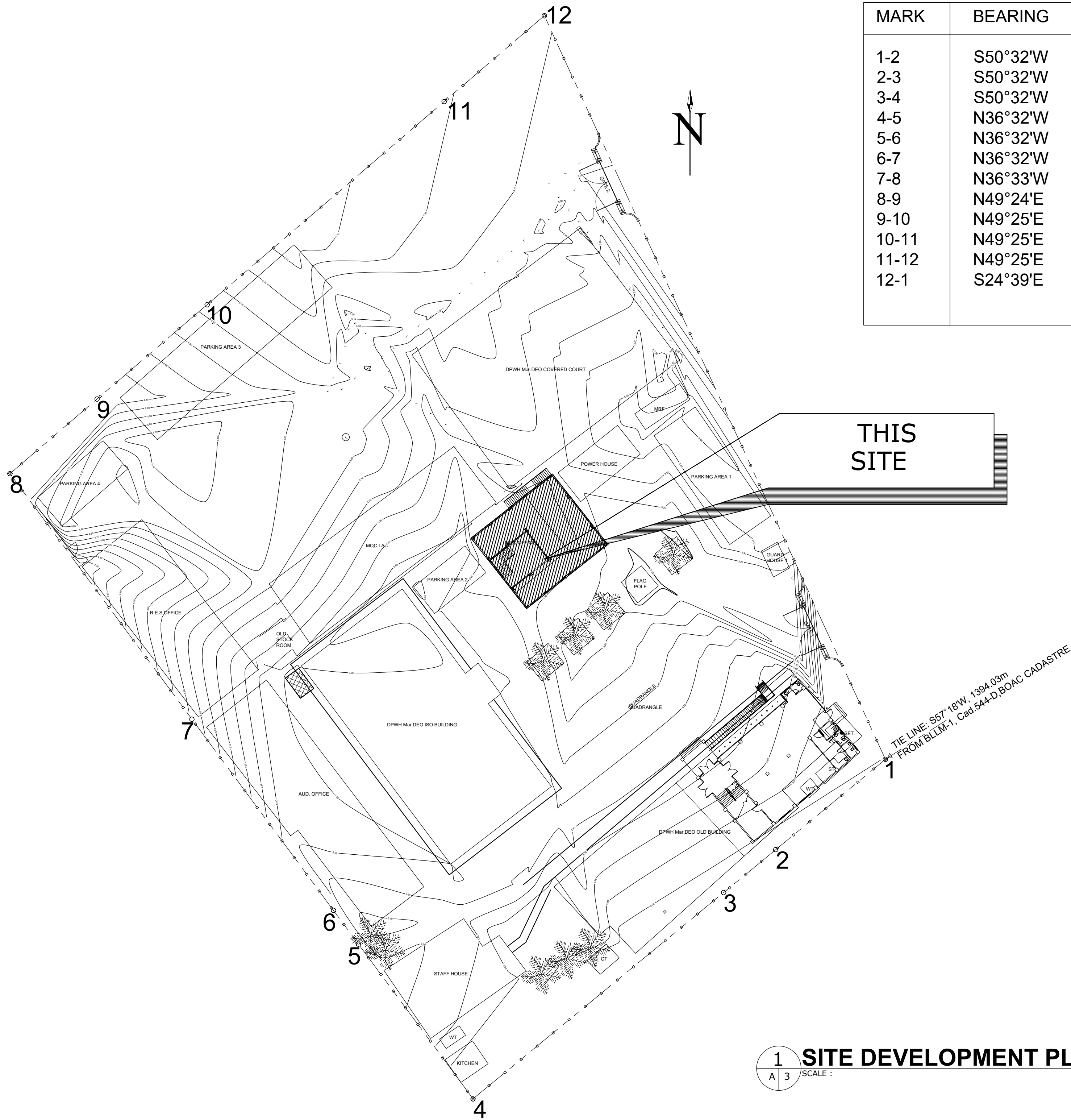
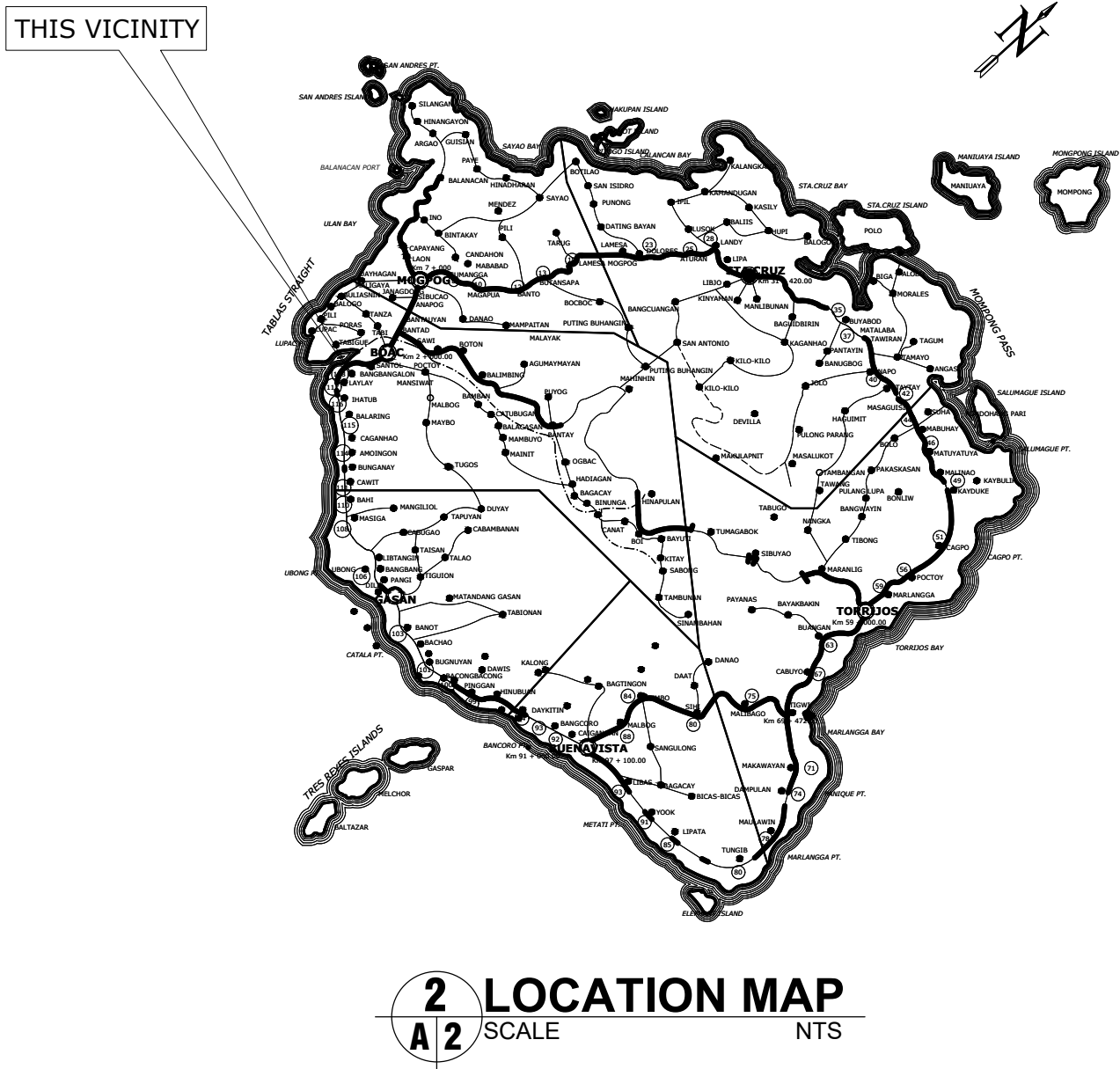
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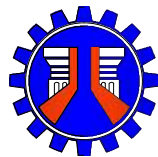


MAP OF MARINDUQUE



MARK	BEARING	DISTANCE
1-2	S50°32'W	20.52m
2-3	S50°32'W	09.75m
3-4	S50°32'W	46.89m
4-5	N36°32'W	27.82m
5-6	N36°32'W	06.05m
6-7	N36°32'W	34.36m
7-8	N36°33'W	44.14m
8-9	N49°24'E	16.57m
9-10	N49°25'E	20.95m
10-11	N49°25'E	45.08m
11-12	N49°25'E	19.06m
12-1	S24°39'E	118.15m

1 SITE DEVELOPMENT PLAN  
A 3 SCALE : 1:400 MTS



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PERSONS, BARANGAY  
BANGBANGALON BOAC,  
MARINDUQUE**

SHEET CONTENTS:  
  
KEY MAP  
LOCATION MAP  
SITE DEVELOPMENT

DRAFTED BY:  
**KYLE ADRIAN M. JAGONG**  
DRAFTSMAN I  
  
PREPARED BY:  
**JAN HENRY R. ROSALES**  
ARCHITECT II

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**JINKIE M. MONTERAS**  
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SHEET NO.

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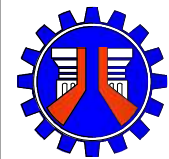
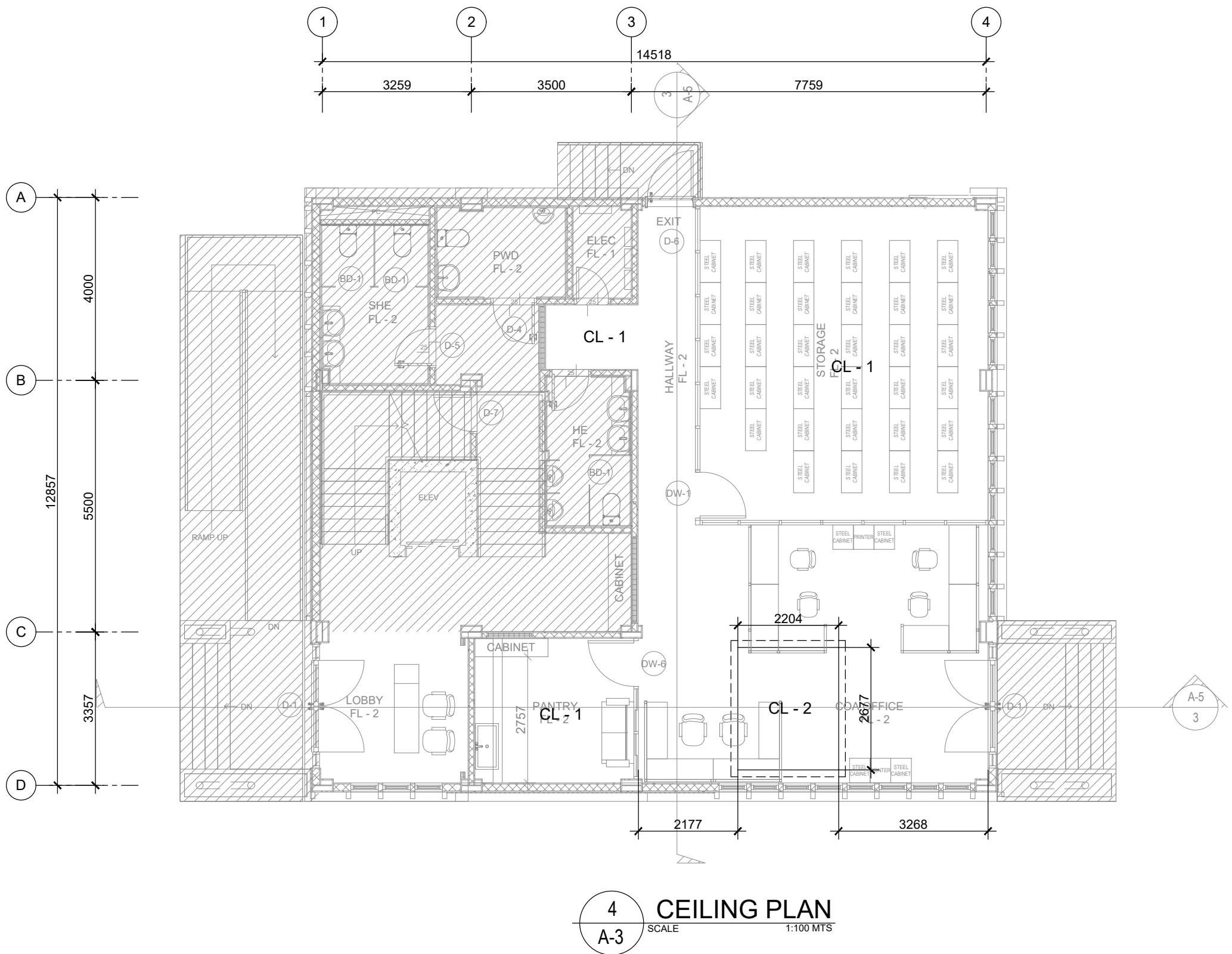
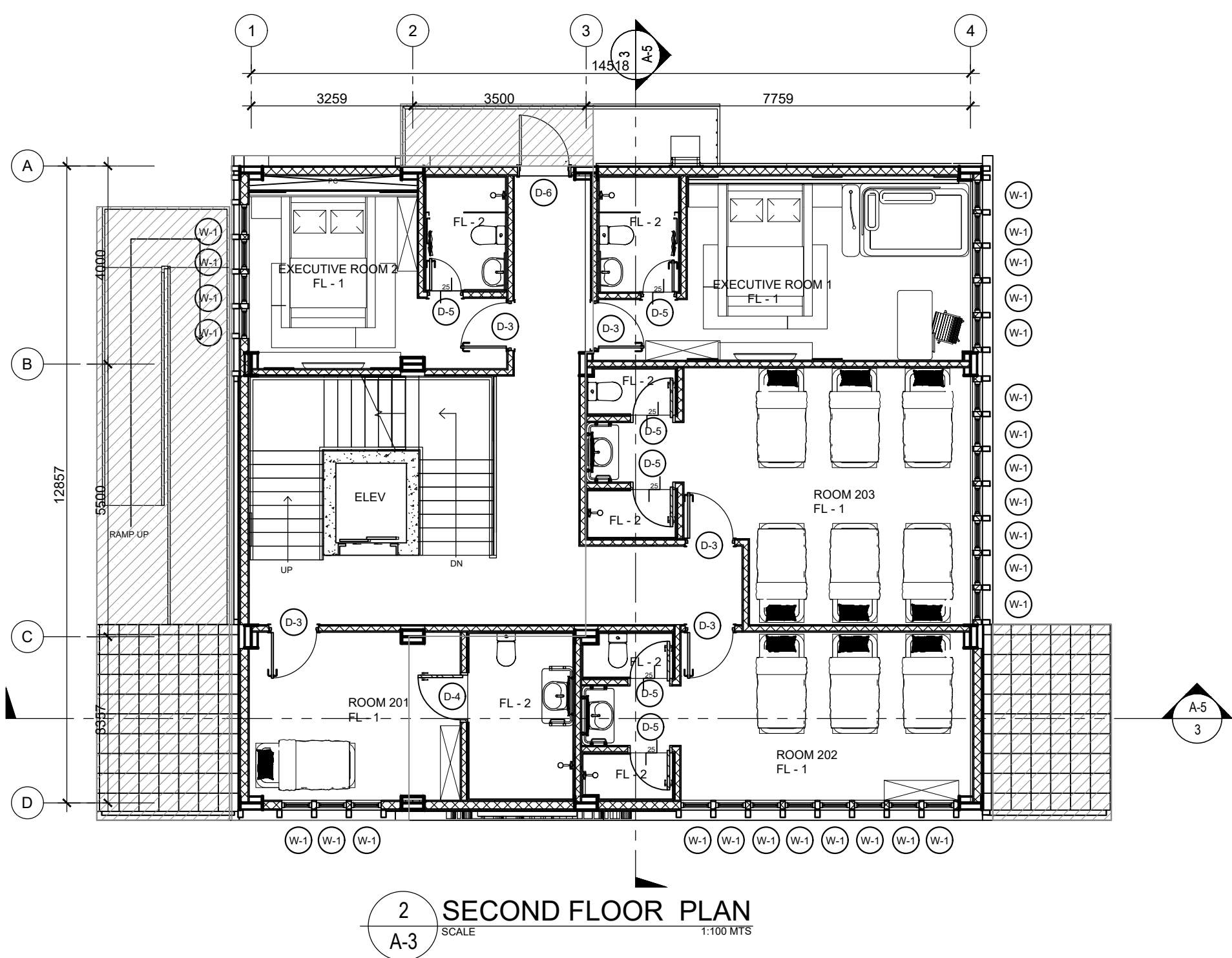
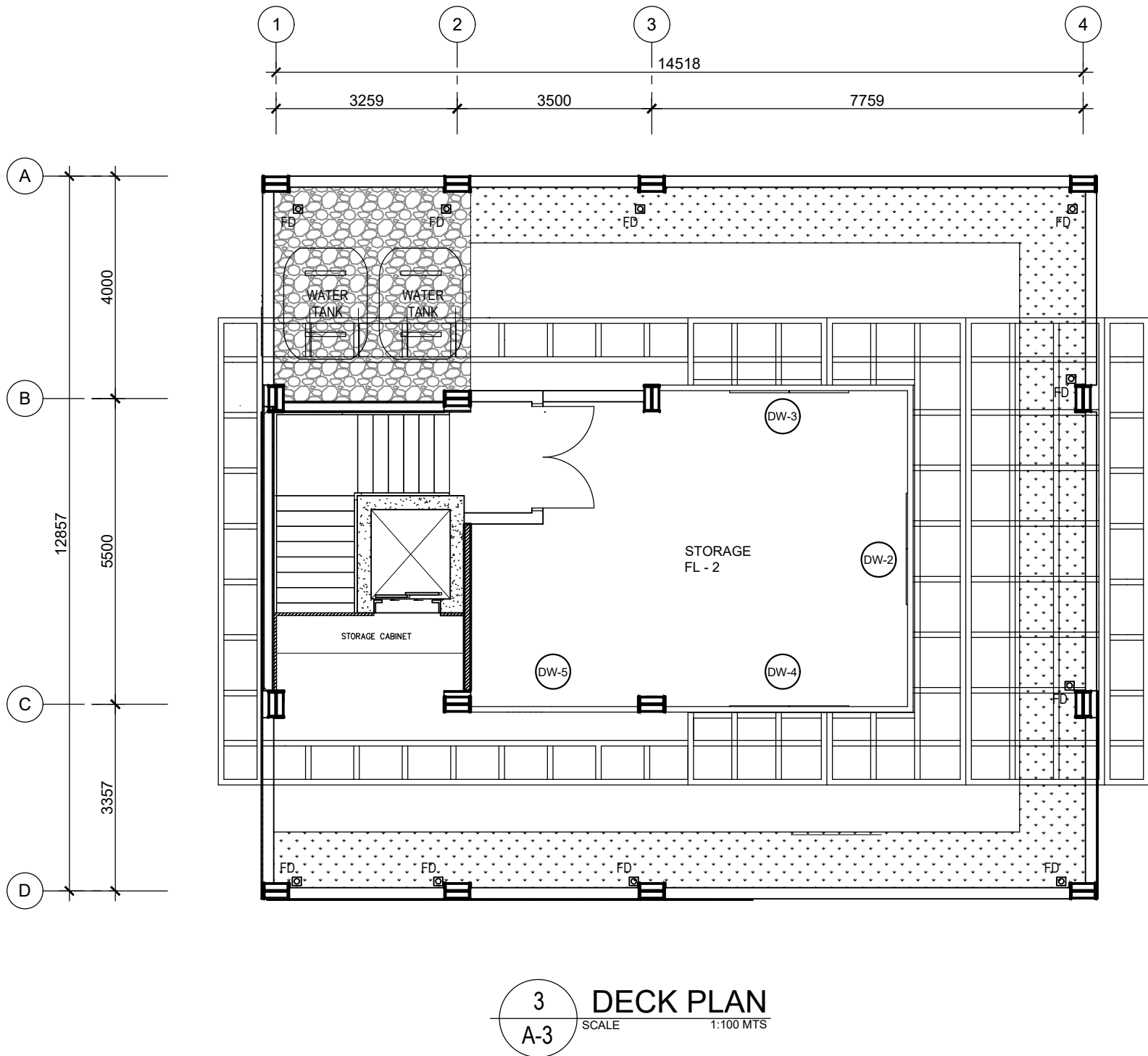
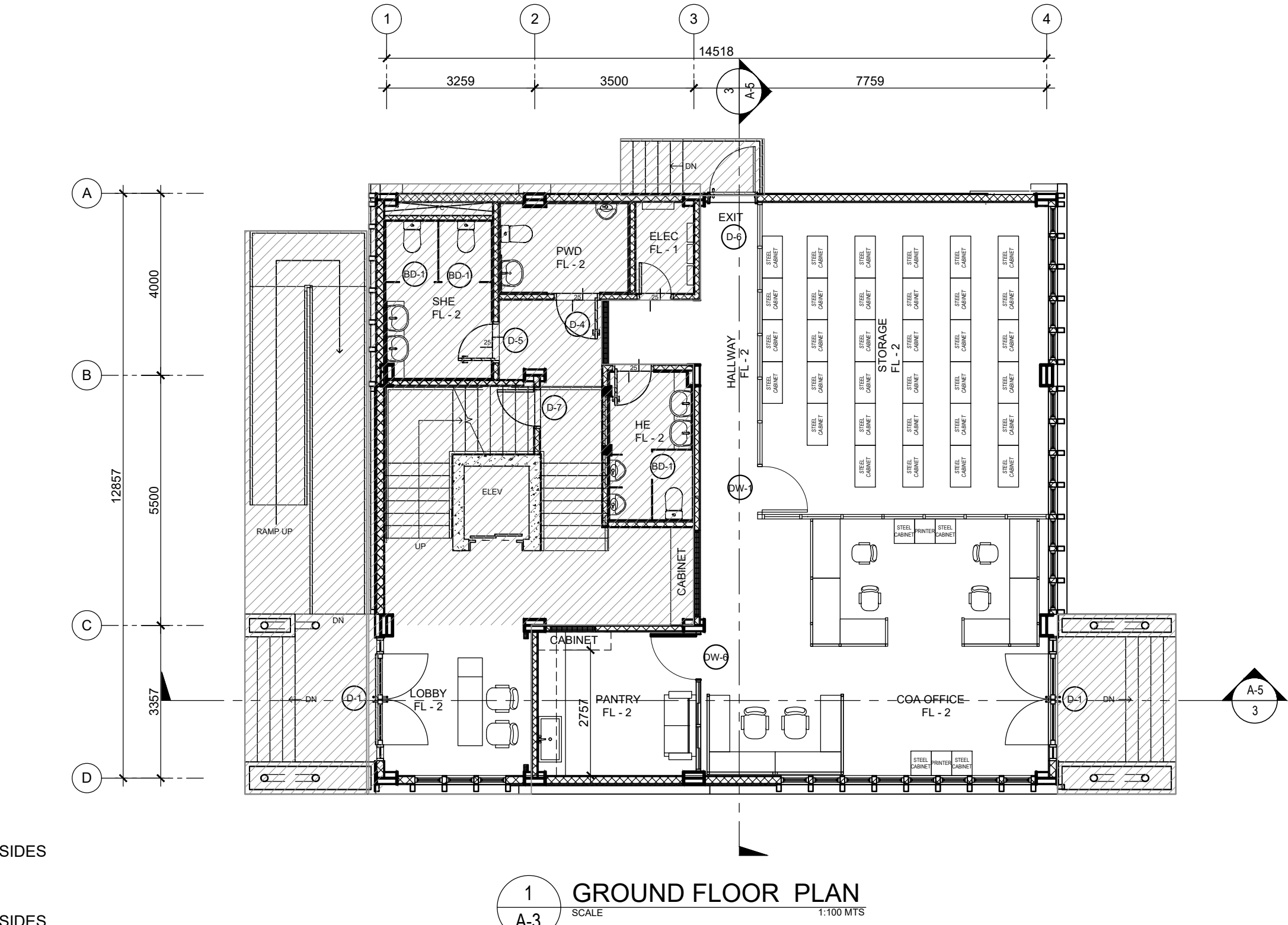


SCHEDULE OF CEILING FINISHES		
MARKS	DECRPTION	REMARKS
CL - 1	6mm THK. MARINE PLYBOARD WITH PAINTED FINISH	PROVIDE 12 mm X 38 mm X 5 m. X 0.8 mm THK. METAL CARRYING CHANNEL ( <i>CEILING JOIST</i> ) AT 1200 mm ON CENTER WITH 19 mm X 50 mm X 5 m. X 0.5 mm THK. METAL DOUBLE FURRING CHANNEL ( <i>CEILING NAILER</i> ) AT 400 mm ON CENTER AND WITH 12 mm X 38 mm X 5 m. X 0.8 mm THK. METALCHANNEL ( <i>CEILING HANGERS</i> ) AT 1200 mm ON CENTER ( <i>TYPICAL ON ALL ROOMS</i> )
CL - 2	RECESSED CEILING	

SCHEDULE OF FLOOR FINISHES	
FL-1	600 X 600 mm UNPOLISHED SYNTHETIC GRANITE TILE FLOOR FINISH (SUBMIT SAMPLE FOR APPROVAL)
FL-2	600 x 600mm VITRIFIED UNGLAZED TILES FLOOR FINISH (SIZE AND/OR COLOR FOR APPROVAL BY END-USER) PROVIDE WATER BASE WATERPROOFING
FL-3	PLAIN CEMENT FLOOR FINISH (PROVIDE WATER BASE WATERPROOFING)

LEGEND:

WF-1		150mm CHB with 25mm PLASTER BOTH SIDES
WF-2		100mm CHB with 25mm PLASTER BOTH SIDES
WF-3		ALUMINUM CLADDING
WF-4		DRY WALL
		EXISTING



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PROJECT NAME AND LOCATION:  
**REHABILITATION/IMPROVEMENT OF ACCESSIBLTY FACILITIES FOR PHYSICALLY CHALLENGED PERSONS, BARANGAY BANGBANGALON BOAC, MARINDUQUE**

SHEET CONTENTS:  
  
GROUND FLOOR PLAN  
SECOND FLOOR PLAN  
ROOF DECK  
CEILING PLAN

DRAFTED BY:  
**KYLE ADRIAN M. JAGONG**  
DRAFTSMAN I  
  
PREPARED BY:  
**JAN HENRY R. ROSALES**  
ARCHITECT II

REVIEWED BY:  
**JINKIE M. MONTERAS**  
ENGINEER II  
  
DATE:

SUBMITTED BY:  
**FERNAN S. DIAZ**  
CHIEF, PLANNING AND DESIGN SECTION  
  
DATE:

RECOMMENDED BY:  
**RYAN N. DELA CRUZ**  
OIC - ASSISTANT DISTRICT ENGINEER  
  
DATE:

APPROVED BY:  
**RICHARD EMMANUEL P. RAGRAGIO**  
DISTRICT ENGINEER  
  
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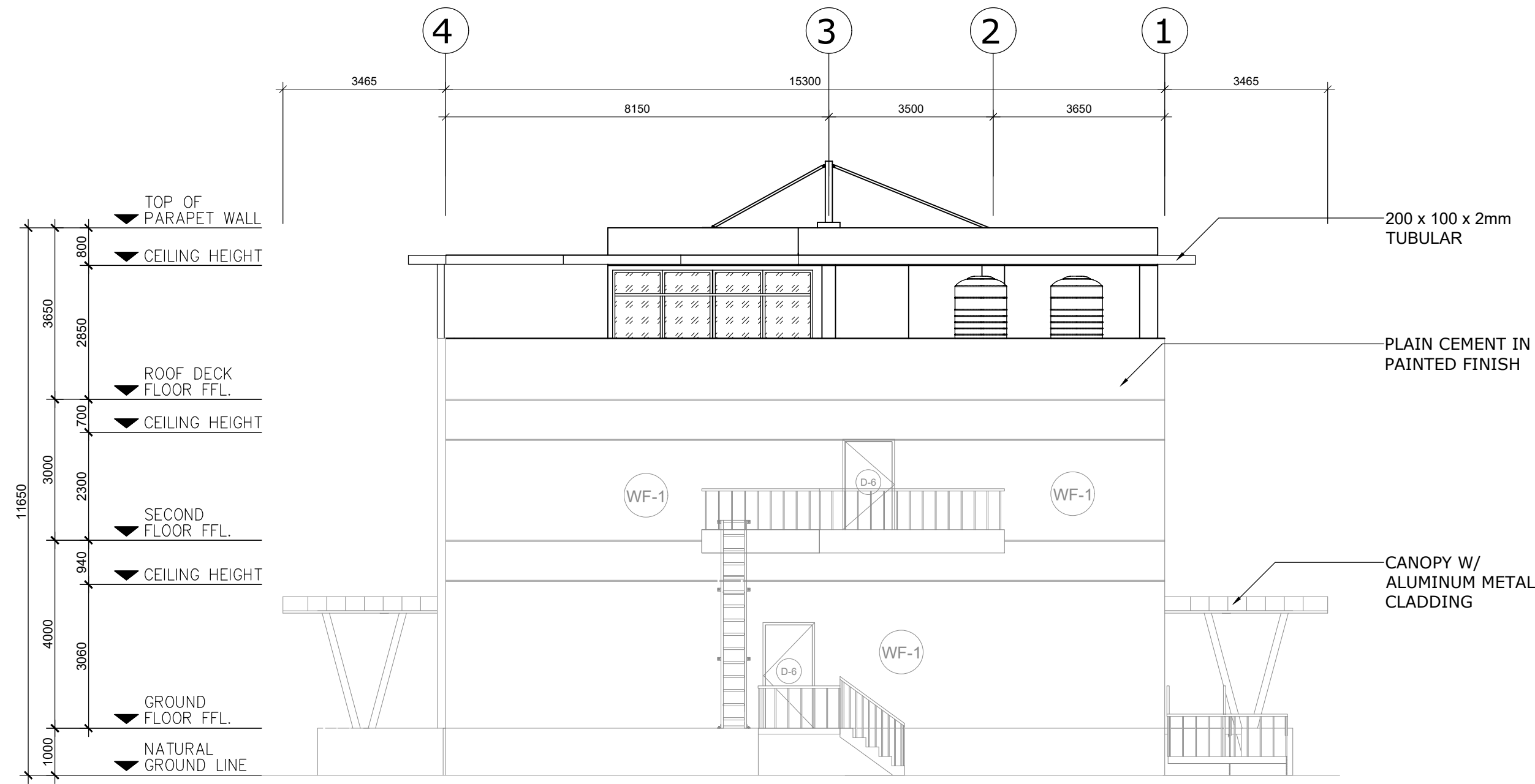
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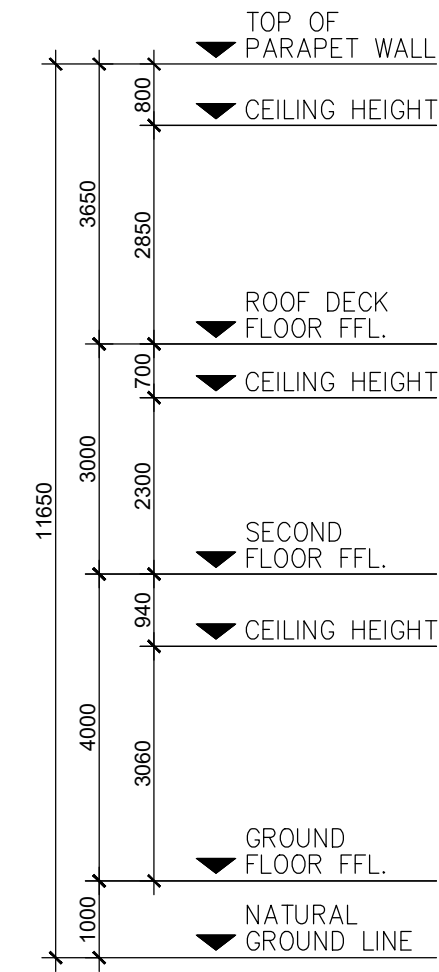
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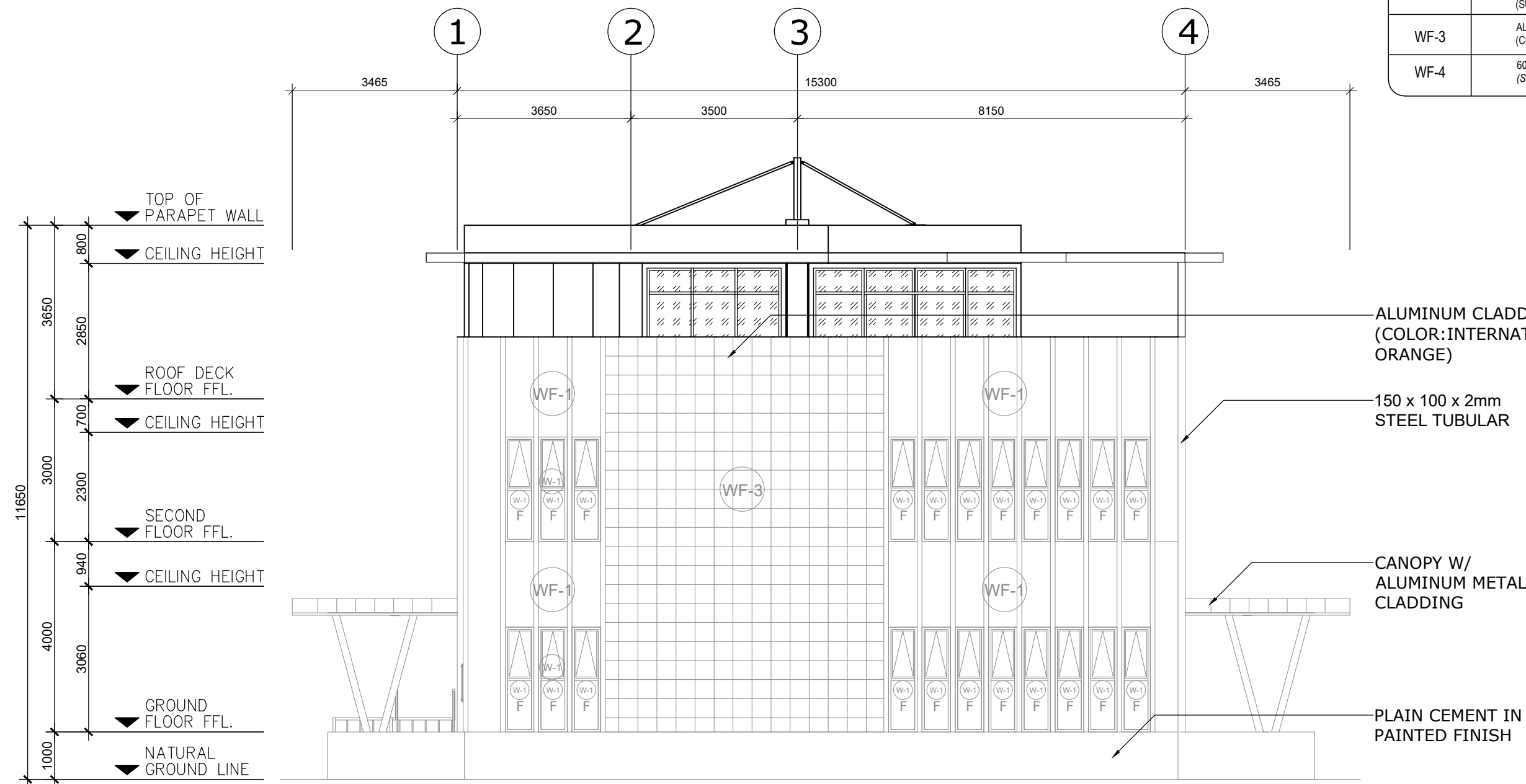




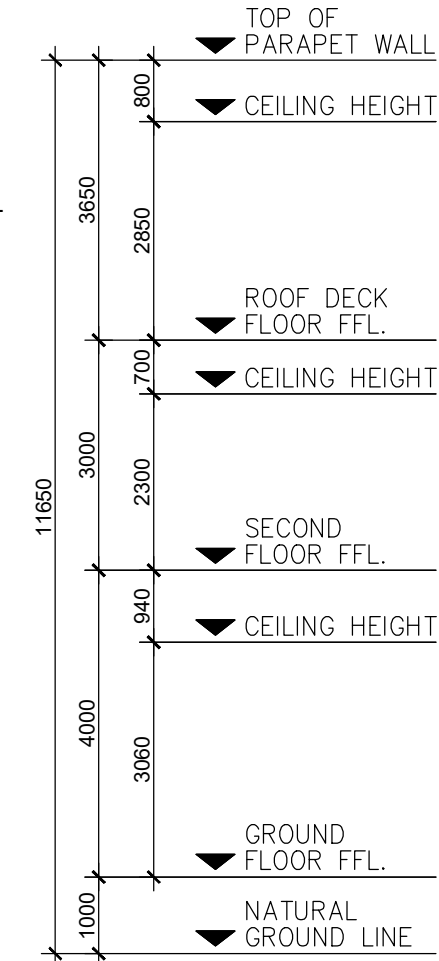
3 REAR ELEVATION  
SCALE: 1:100 MTS  
A-5



4 LEFT SIDE ELEVATION  
SCALE: 1:100 MTS  
A-5



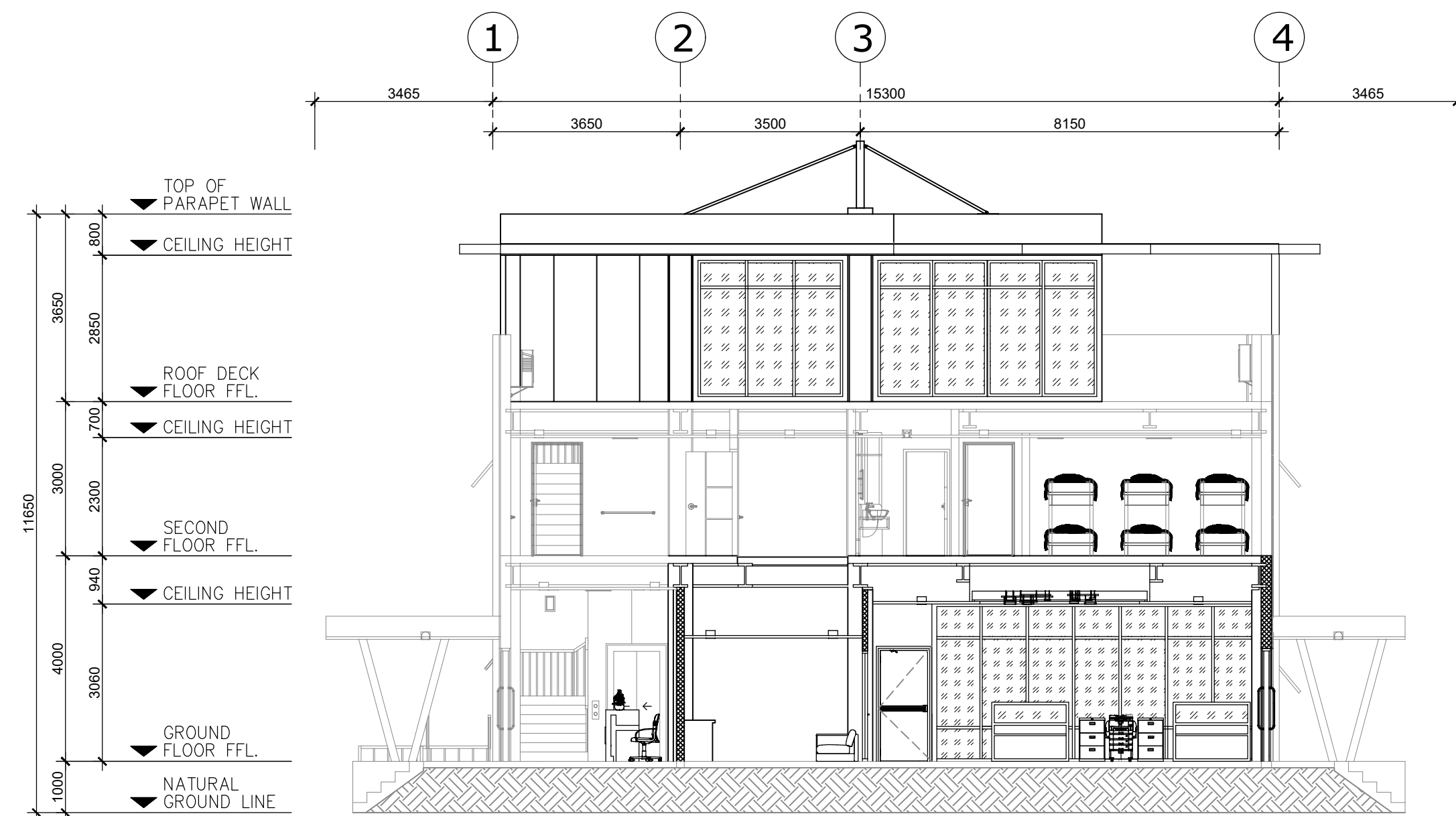
1 FRONT ELEVATION  
SCALE: 1:100 MTS  
A-5



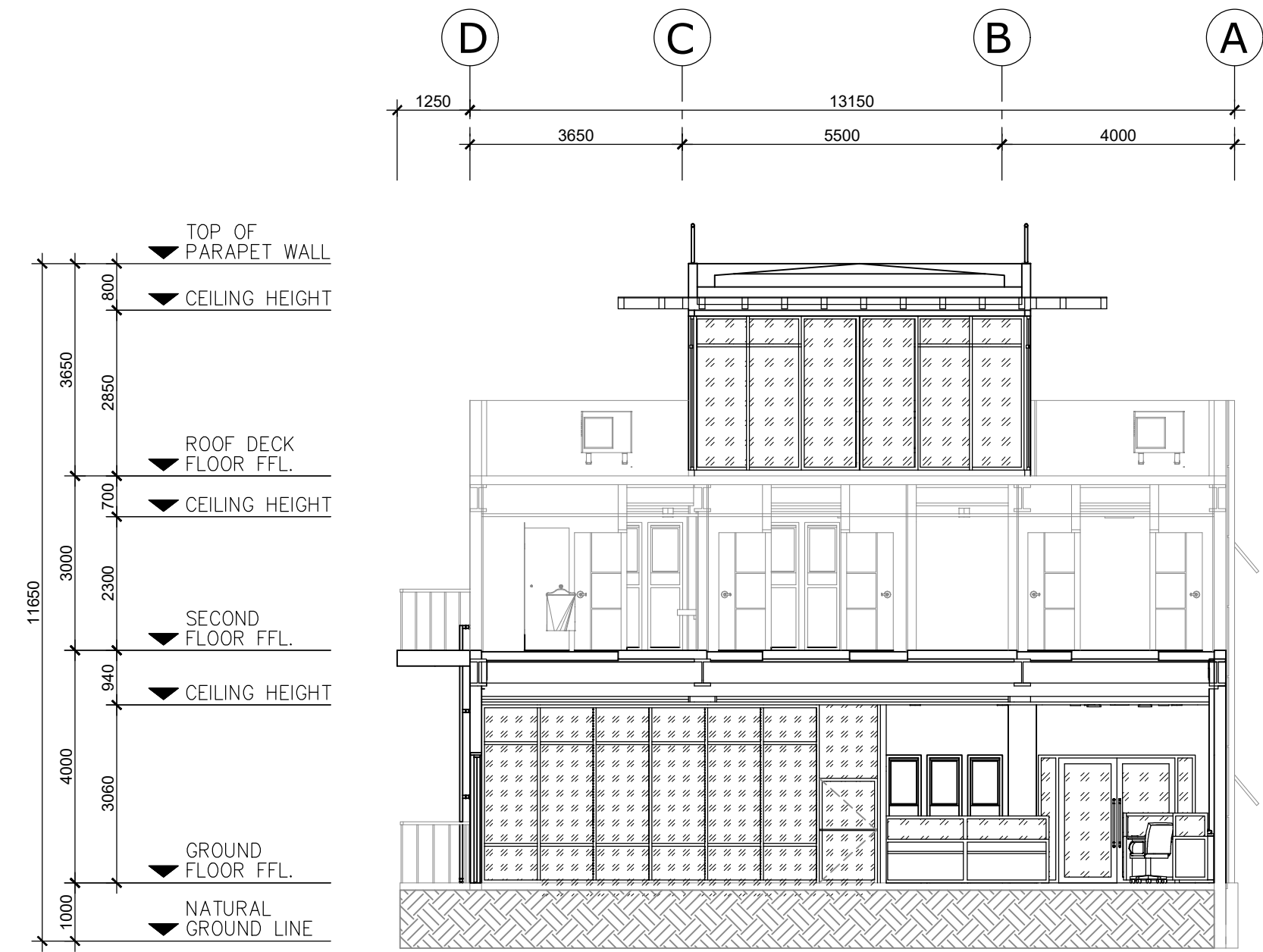
2 RIGHT SIDE ELEVATION  
SCALE: 1:100 MTS  
A-5

SCHEDULE OF WALL FINISHES	
WF-1	150 mm THK. CHB WALL WITH PLAIN CEMENT PLASTER PAINTED FINISH (COLOR: INTERNATIONAL ORANGE)
WF-2	100 mm THK. CHB WALL WITH PLAIN CEMENT PLASTER PAINTED FINISH (SUBMIT COLOR SAMPLES FOR APPROVAL)
WF-3	ALUMINUM METAL CLADDING ON 150 mm THK. CHB WALL (COLOR: INTERNATIONAL ORANGE)
WF-4	600 x 600 mm VITRIFIED UNGLAZED TILES FLOOR FINISH (SIZE AND/OR COLOR FOR APPROVAL BY END-USER)

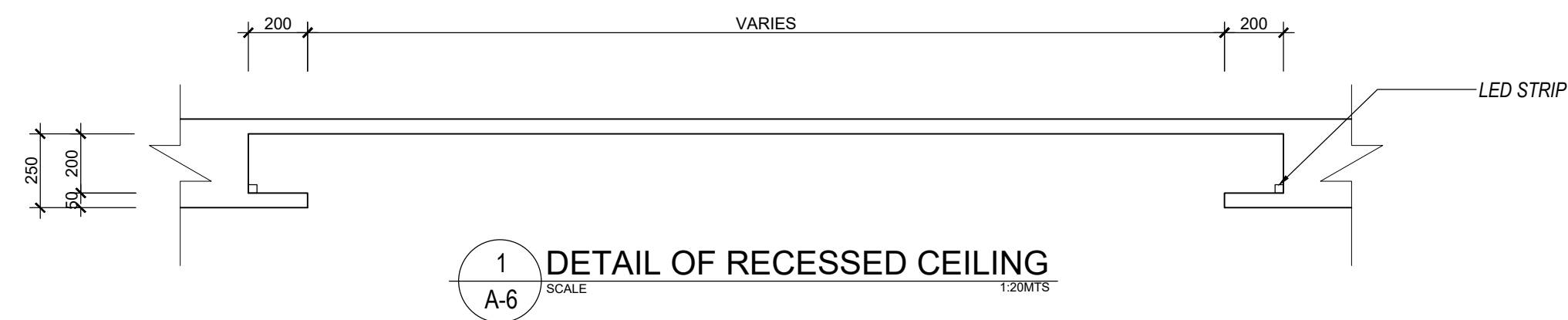




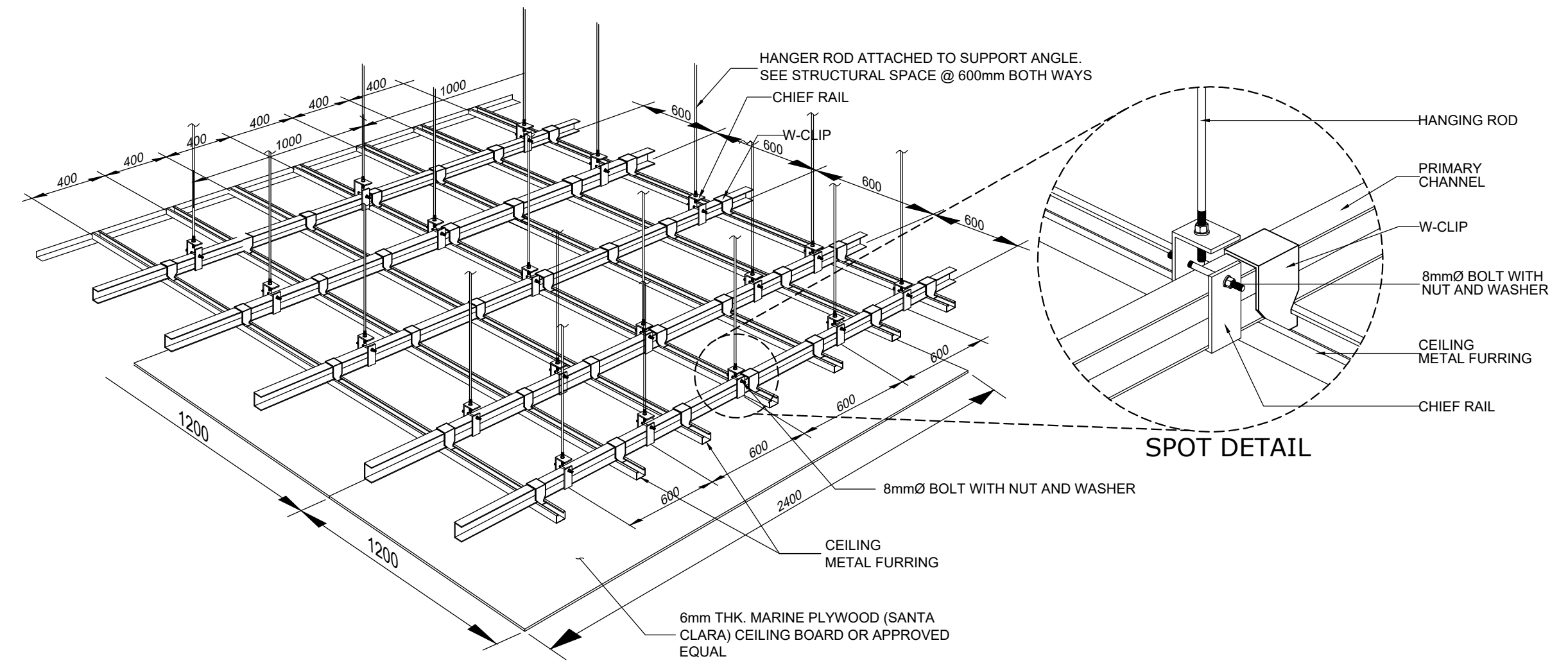
1  
A-6  
LONGITUDINAL SECTION  
SCALE 1:100 MTS



2  
A-6  
CROSS SECTION  
SCALE 1:100 MTS



1  
A-6  
DETAIL OF RECESSED CEILING  
SCALE 1:20 MTS




1  
A-6  
ISOMETRIC DETAILS OF CEILING  
SCALE NTS

PROJECT NAME AND LOCATION:	SHEET CONTENTS:	DRAFTED BY:	REVIEWED BY:	SUBMITTED BY:	RECOMMENDED BY:	APPROVED BY:	CONCURRED BY:	SET NO.	SHEET NO.
REHABILITATION/IMPROVEMENT OF ACCESSIBILITY FACILITIES FOR PHYSICALLY CHALLENGED PERSONS, BARANGAY BANGBANGALON BOAC, MARINDUQUE	LONGITUDINAL SECTION CROSS SECTION ISOMETRIC DETAILS OF CEILING DETAIL OF RECESSED CEILING	KYLE ADRIAN M. JAGONG DRAFTSMAN I	JINKIE M. MONTERAS ENGINEER II	FERNAN S. DIAZ CHIEF, PLANNING AND DESIGN SECTION	RYAN N. DELA CRUZ OIC - ASSISTANT DISTRICT ENGINEER	RICHARD EMMANUEL P. RAGRAGIO DISTRICT ENGINEER	----- -----		
		JAN HENRY R. ROSALES ARCHITECT II							
			DATE:	DATE:	DATE:	DATE:	DATE:	<div> A 6 11 </div>	<div> 6 13 </div>

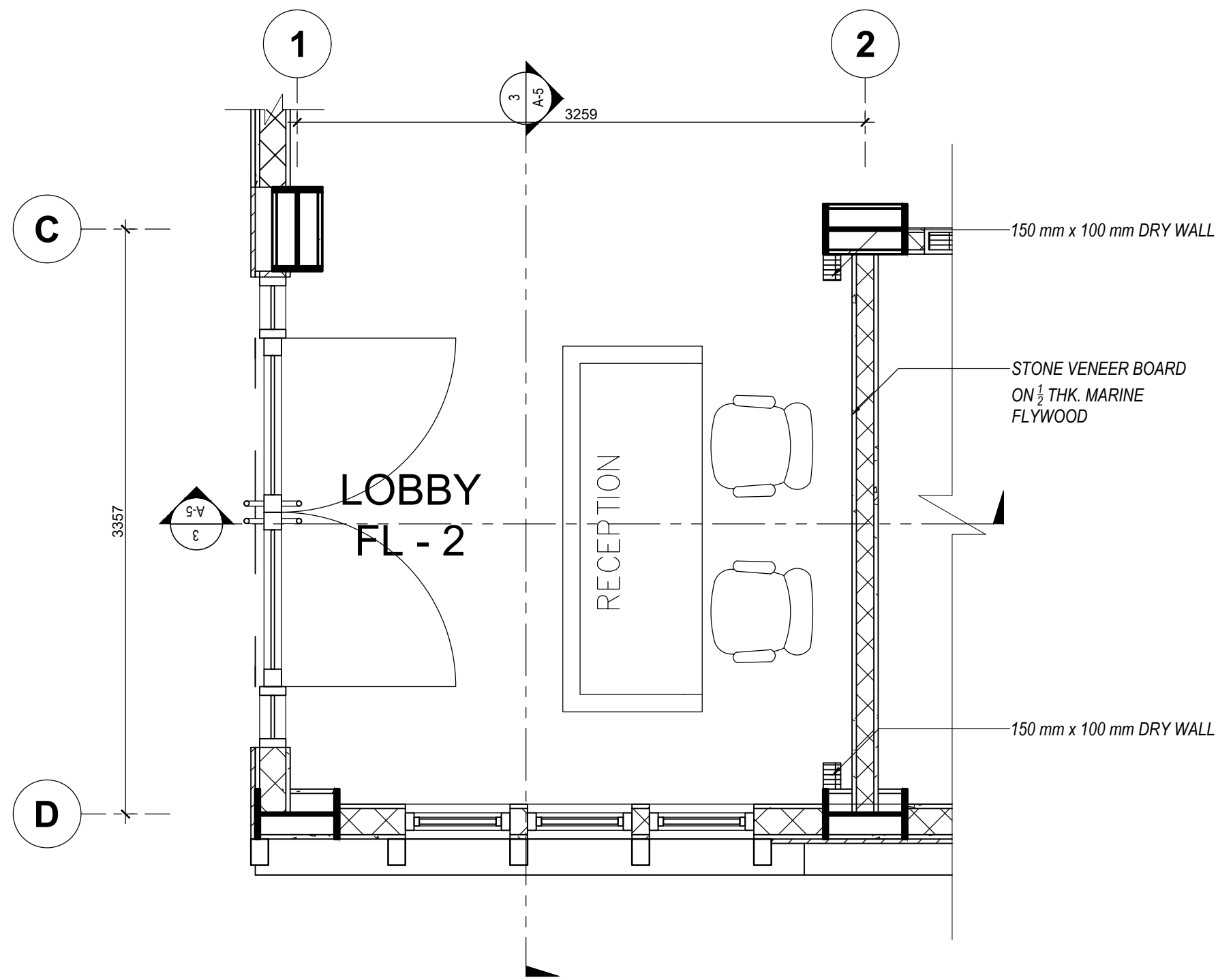
ELEVATION				
WINDOW DESIGNATION	DW-1		DW-2	
MATERIAL	ORDINARY GLASS ALUMINUM WINDOW ON ALUMINUM FRAME		ORDINARY GLASS ALUMINUM WINDOW ON ALUMINUM FRAME	
QUANTITY/LOCATION	1 SET	COA'S OFFICE	1 SET	ROOF DECK STORAGE
SIZE W/FRAMING (H x W x T)	3338 mm x 6859 mm x 6399mm x 100 mm,50 mm		2850 mm x 5884 mm x 100 mm	
ACCESSORIES	VERIFY MANUFACTURER'S INSTRUCTION		VERIFY MANUFACTURER'S INSTRUCTION	

ELEVATION						
	<p>▼ ROOF DECK</p>					
WINDOW DESIGNATION	DW-3		DW-4		DW-5	
MATERIAL	ORDINARY GLASS ALUMINUM WINDOW ON ALUMINUM FRAME		ORDINARY GLASS ALUMINUM WINDOW ON ALUMINUM FRAME		ORDINARY GLASS ALUMINUM SLIDING WINDOW ON ALUMINUM FRAME	
QUANTITY/LOCATION	1 SET	ROOF DECK STORAGE	1 SET	ROOF DECK STORAGE	1 SET	ROOF DECK STORAGE
SIZE W/FRAMING (H x W x T)	2850 mm x 4557 mm x 100 mm		2850 mm x 4459 mm x 100 mm		2850 mm x 3018 mm x 100 mm	
ACCESSORIES	VERIFY MANUFACTURER'S INSTRUCTION		VERIFY MANUFACTURER'S INSTRUCTION		VERIFY MANUFACTURER'S INSTRUCTION	

1 SCHEDULE OF DOORS AND WINDOWS  
A-7 SCALE 1:50 MTS

 <div> <p>REPUBLIC OF THE PHILIPPINES</p> <p><b>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</b></p> <p>REGION IV-B, MIMAROPA</p> <p>MARINDUQUE DISTRICT ENGINEERING OFFICE</p> <p>BOAC, MARINDUQUE</p> </div>	PROJECT NAME AND LOCATION:	SHEET CONTENTS:	DRAFTED BY:	REVIEWED BY:	SUBMITTED BY:	RECOMMENDED BY:	APPROVED BY:	CONCURRED BY:	SET NO.	SHEET NO.
	<p><b>REHABILITATION/IMPROVEMENT OF ACCESSIBILITY FACILITIES FOR PHYSICALLY CHALLENGED PERSONS, BARANGAY BANGBANGALON BOAC, MARINDUQUE</b></p>	SCHEDULE OF DOORS AND WINDOWS	<p><b>KYLE ADRIAN M. JAGONG</b> DRAFTSMAN I</p> <hr/> <p>PREPARED BY:</p> <p><b>JAN HENRY R. ROSALES</b> ARCHITECT II</p>	<p><b>JINKIE M. MONTERAS</b> ENGINEER II</p> <hr/> <p>DATE:</p>	<p><b>FERNAN S. DIAZ</b> CHIEF, PLANNING AND DESIGN SECTION</p> <hr/> <p>DATE:</p>	<p><b>RYAN N. DELA CRUZ</b> OIC - ASSISTANT DISTRICT ENGINEER</p> <hr/> <p>DATE:</p>	<p><b>RICHARD EMMANUEL P. RAGRAGIO</b> DISTRICT ENGINEER</p> <hr/> <p>DATE:</p>	<p>-----</p> <p>-----</p> <hr/> <p>DATE:</p>	<div> <div><b>A</b></div> <div>7 11</div> </div>	<div> <div><b>7</b></div> <div>13</div> </div>

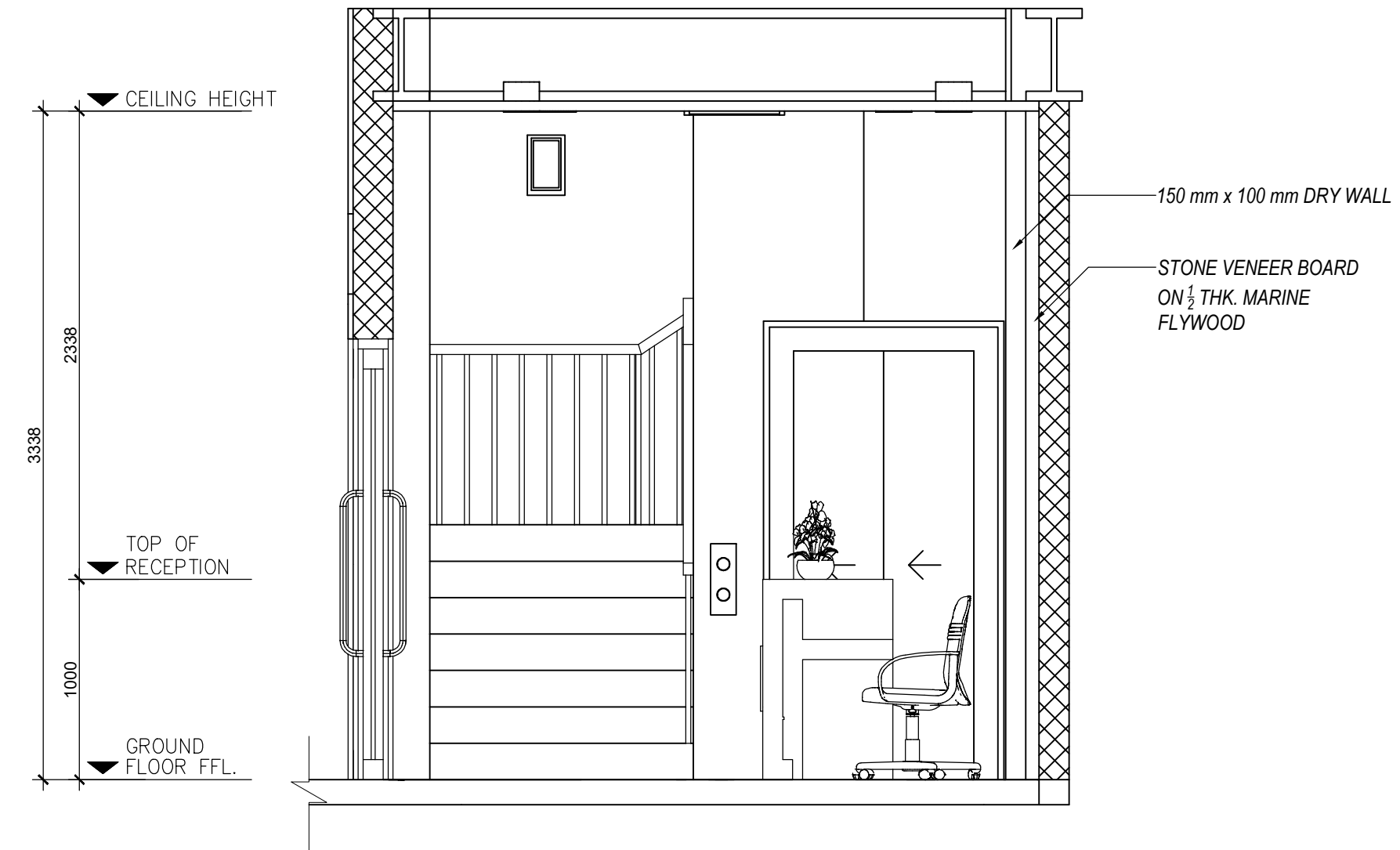




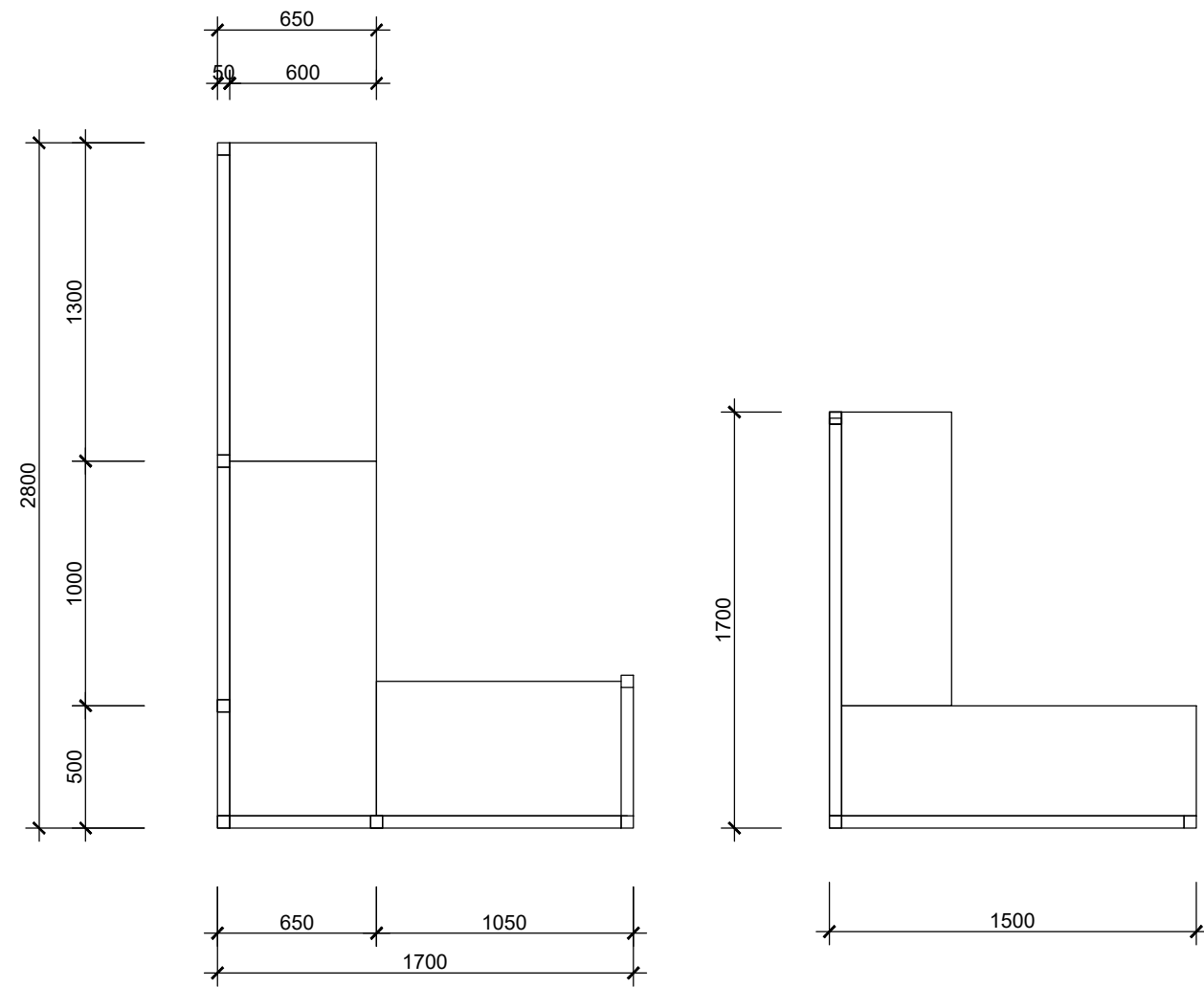
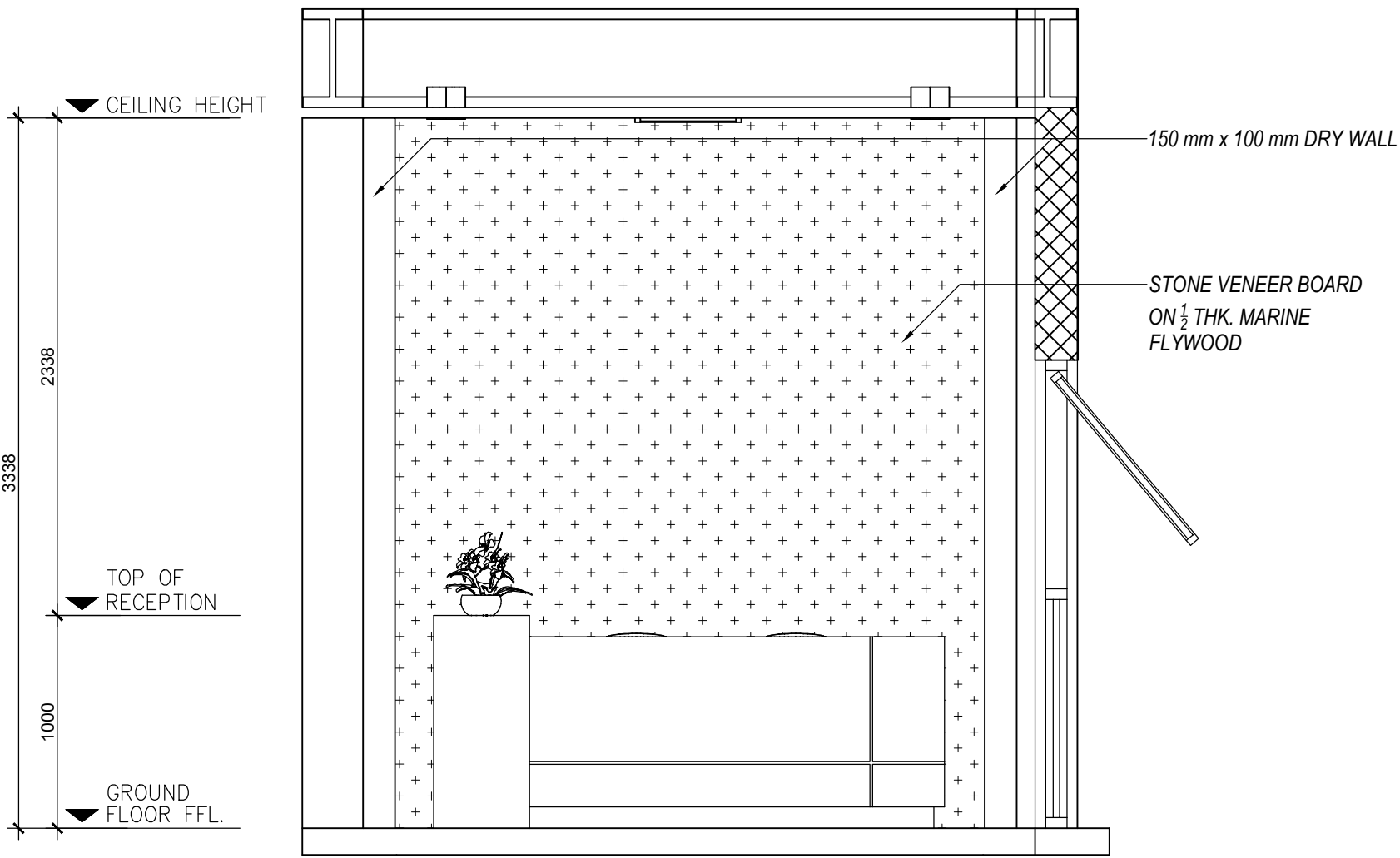
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A-8  
SCALE  
1:30 MTS

ELEVATION		
WINDOW DESIGNATION	DW-6	
MATERIAL	ORDINARY GLASS ALUMINUM WINDOW ON ALUMINUM FRAME	
QUANTITY/LOCATION	1 SET	PANTRY
SIZE W/FRAMING (H x W x T)	2850 mm x 5884 mm x 100 mm	
ACCESSORIES	VERIFY MANUFACTURER'S INSTRUCTION	

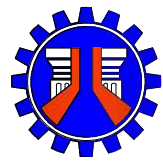
3  
A-8  
SCALE  
1:50 MTS



2  
A-8  
SCALE  
1:30 MTS



4  
A-8  
SCALE  
1:30 MTS



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MARINDUQUE**

SHEET CONTENTS:  
DETAIL PLAN OF LOBBY  
DETAIL SECTION OF LOBBY  
DETAIL OF OFFICE CUBICLE  
SCHEDULE OF DOORS AND WINDOWS

DRAFTED BY:  
**KYLE ADRIAN M. JAGONG**  
DRAFTSMAN I  
PREPARED BY:  
**JAN HENRY R. ROSALES**  
ARCHITECT II

REVIEWED BY:  
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ENGINEER II  
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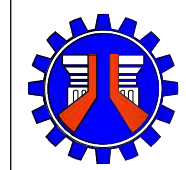
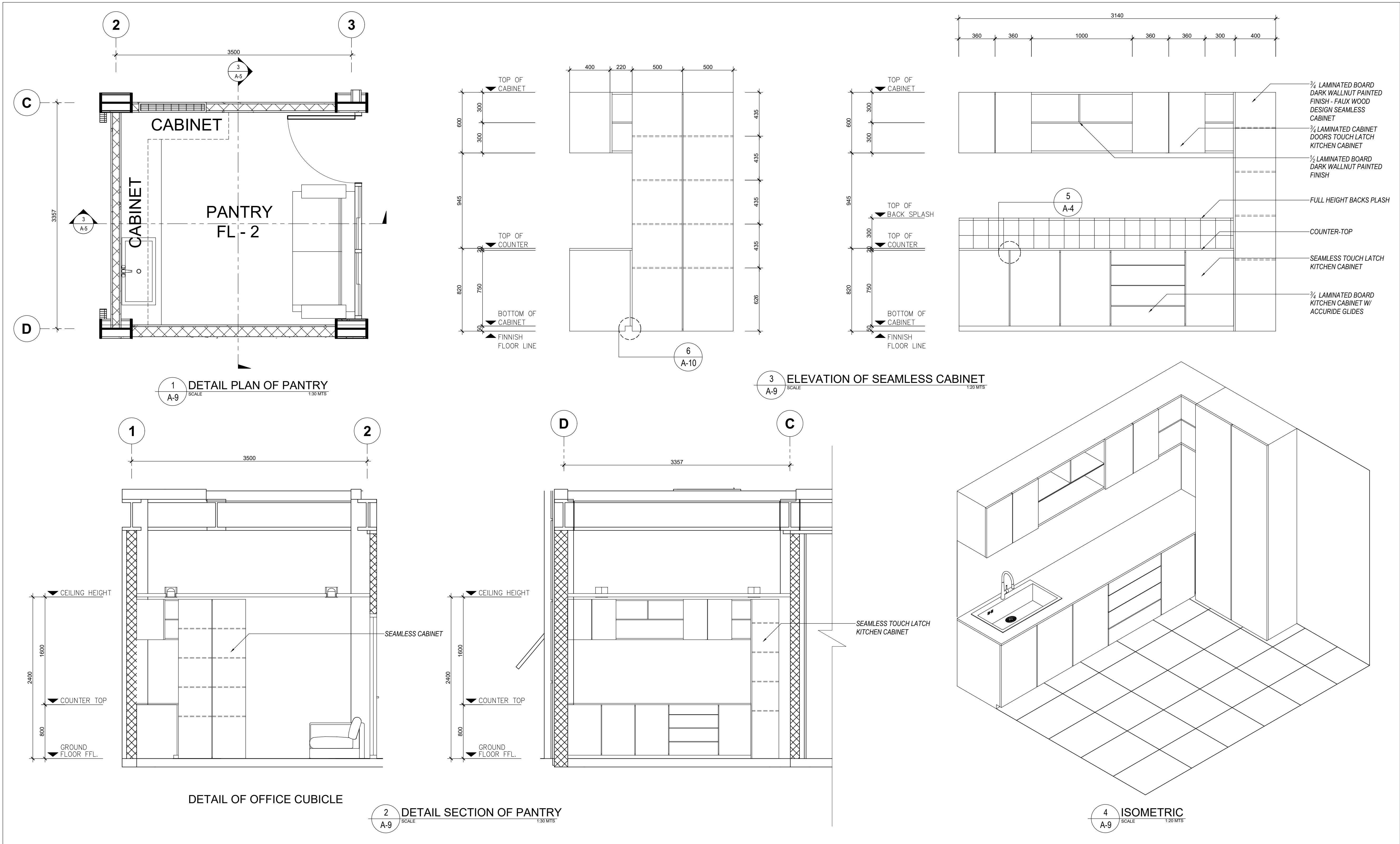
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OIC - ASSISTANT DISTRICT ENGINEER  
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DISTRICT ENGINEER  
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SHEET CONTENTS:  
DETAIL PLAN OF PANTRY  
SEAMLESS CABINET  
DETAIL SECTION OF PANTRY  
ISOMETRIC

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DRAFTSMAN I  
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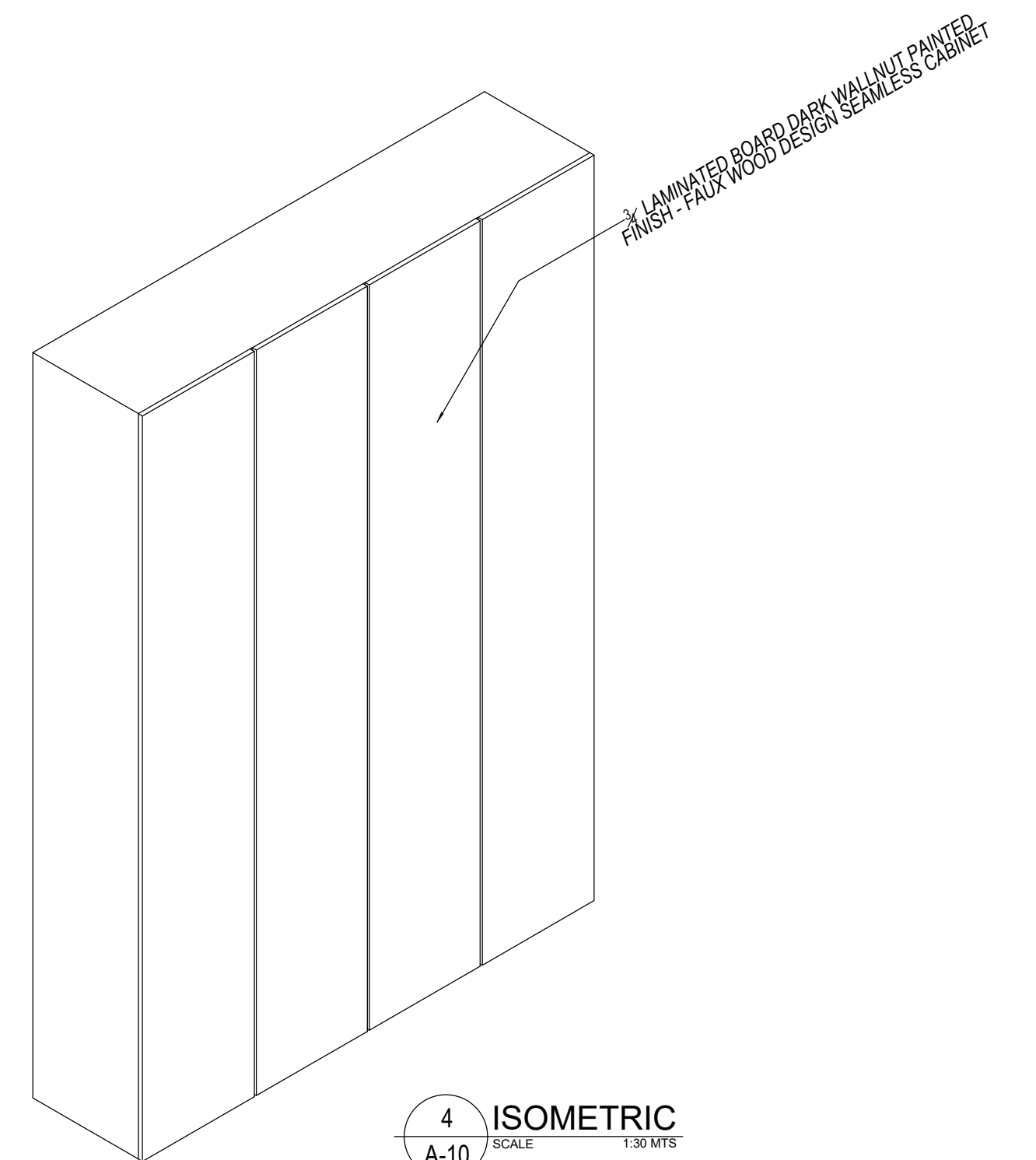
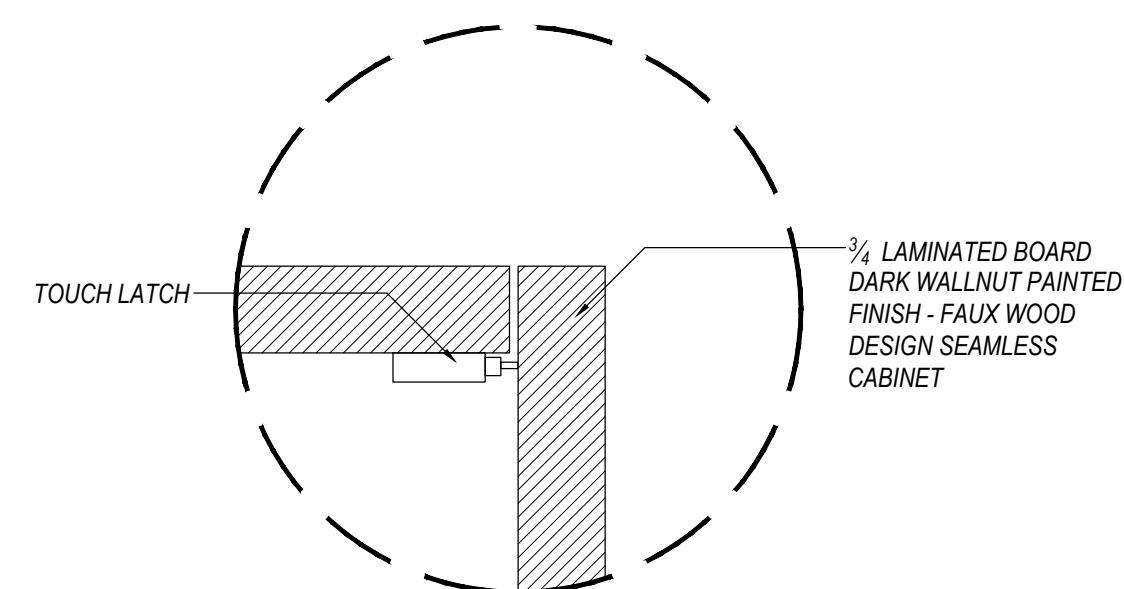
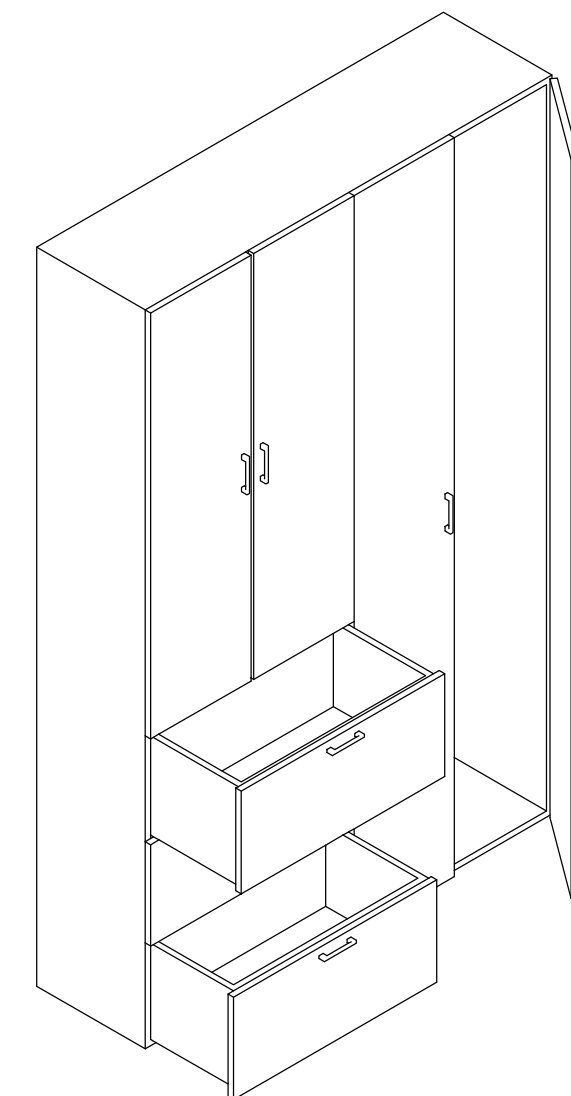
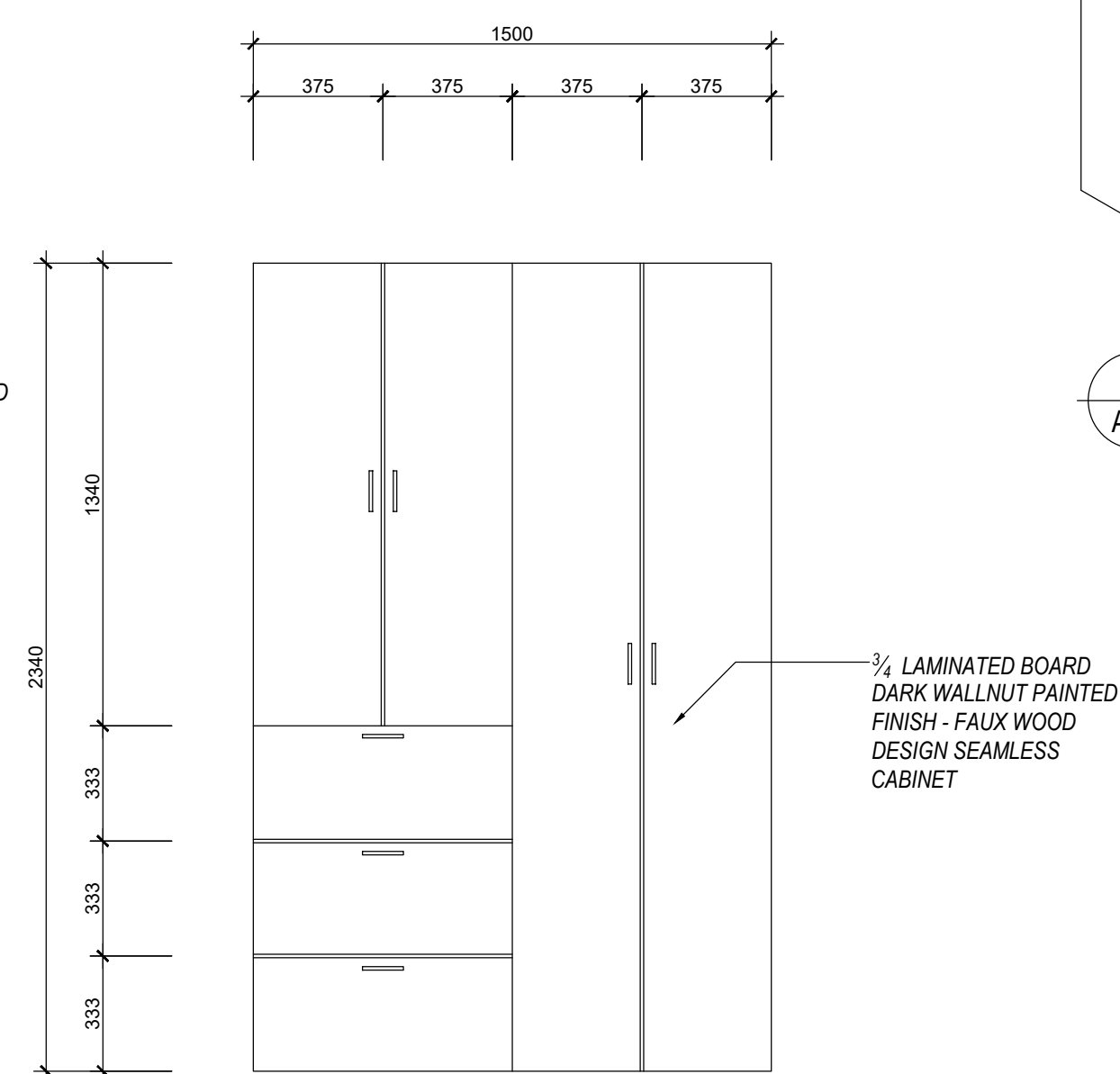
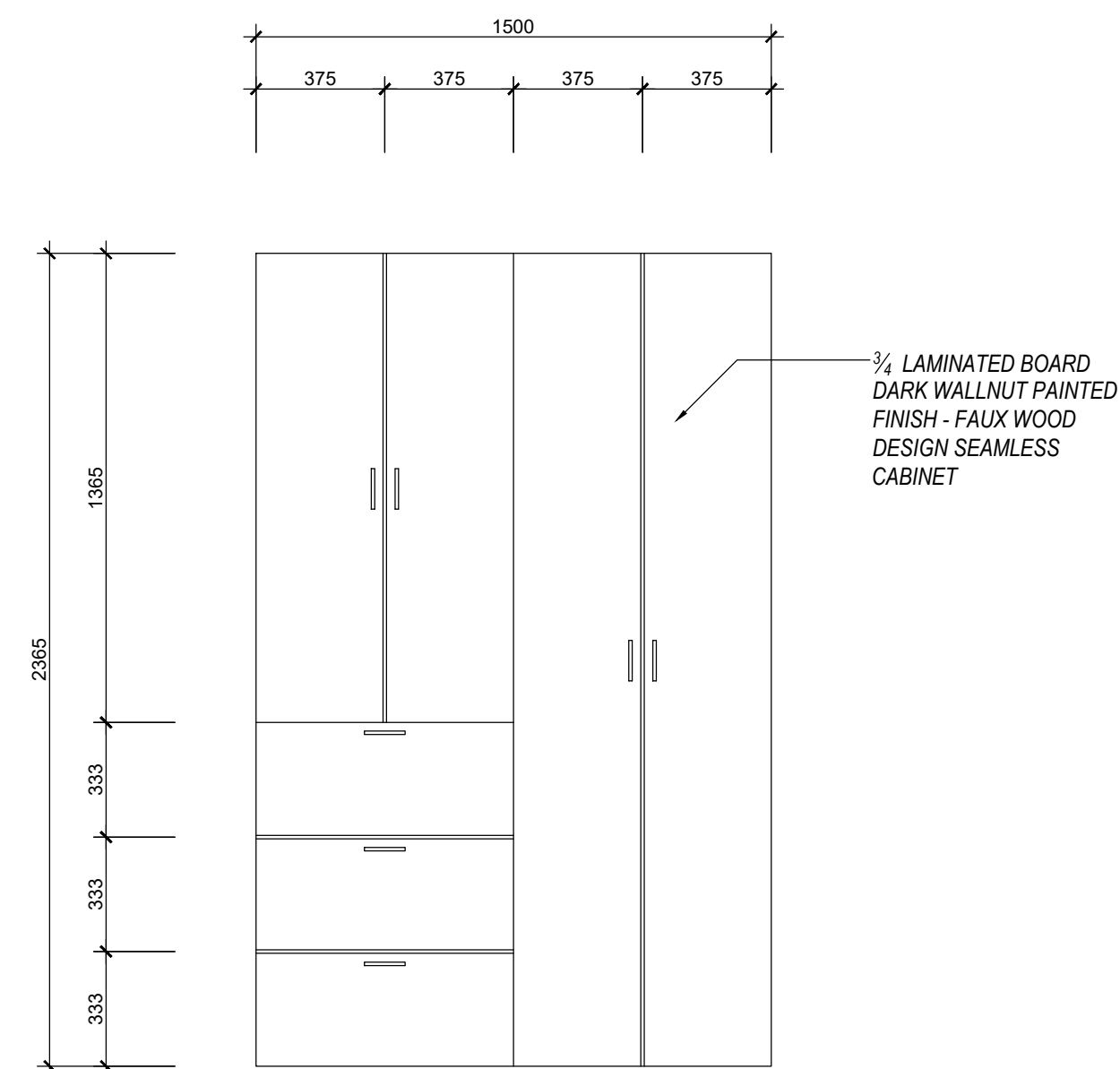
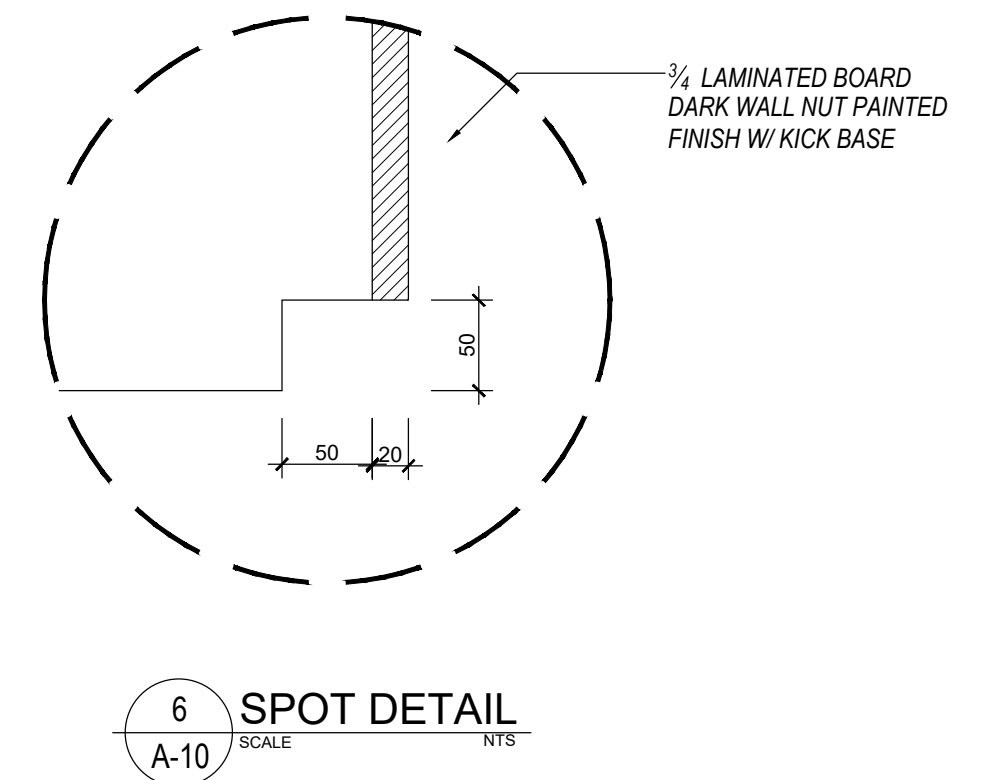
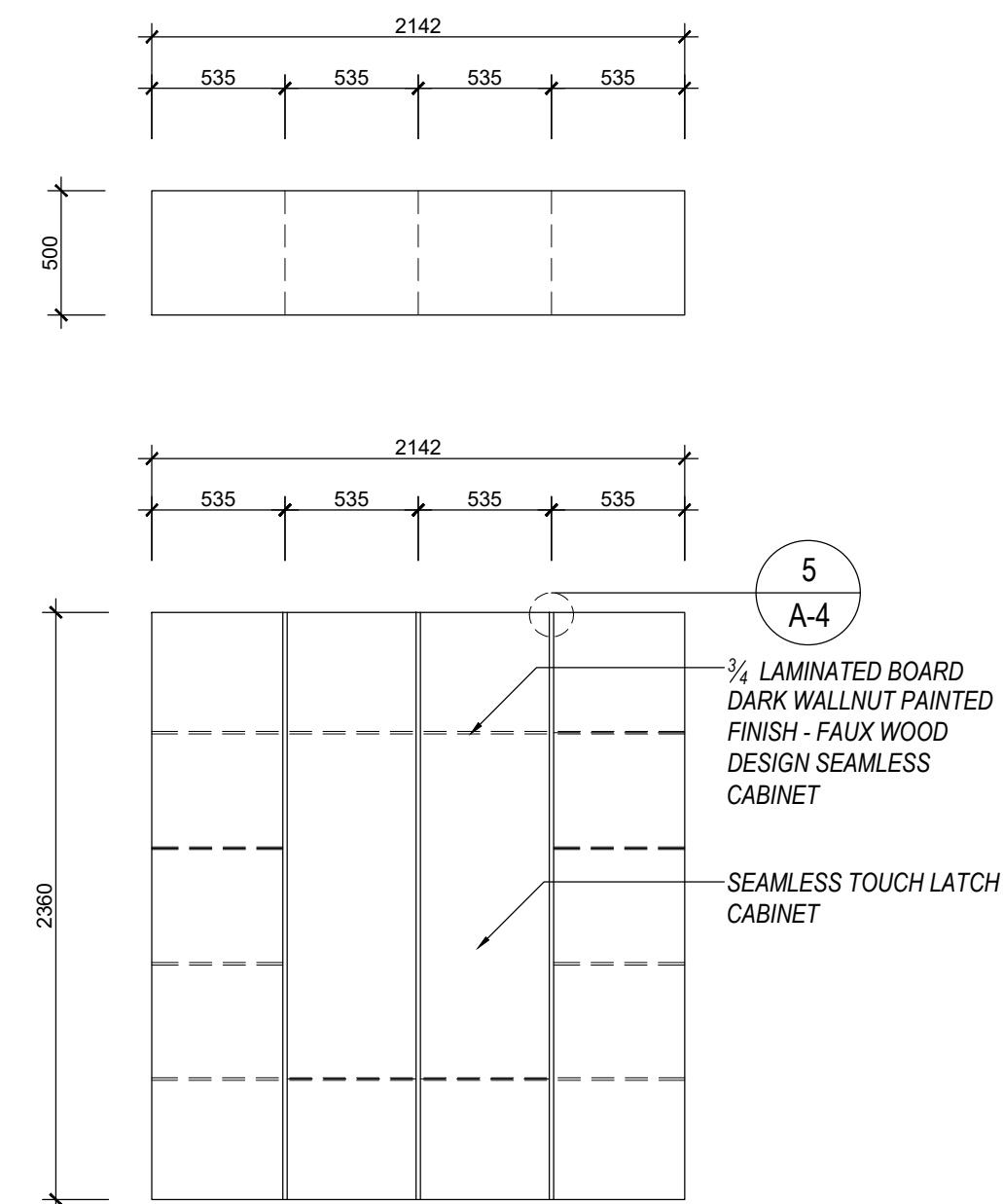
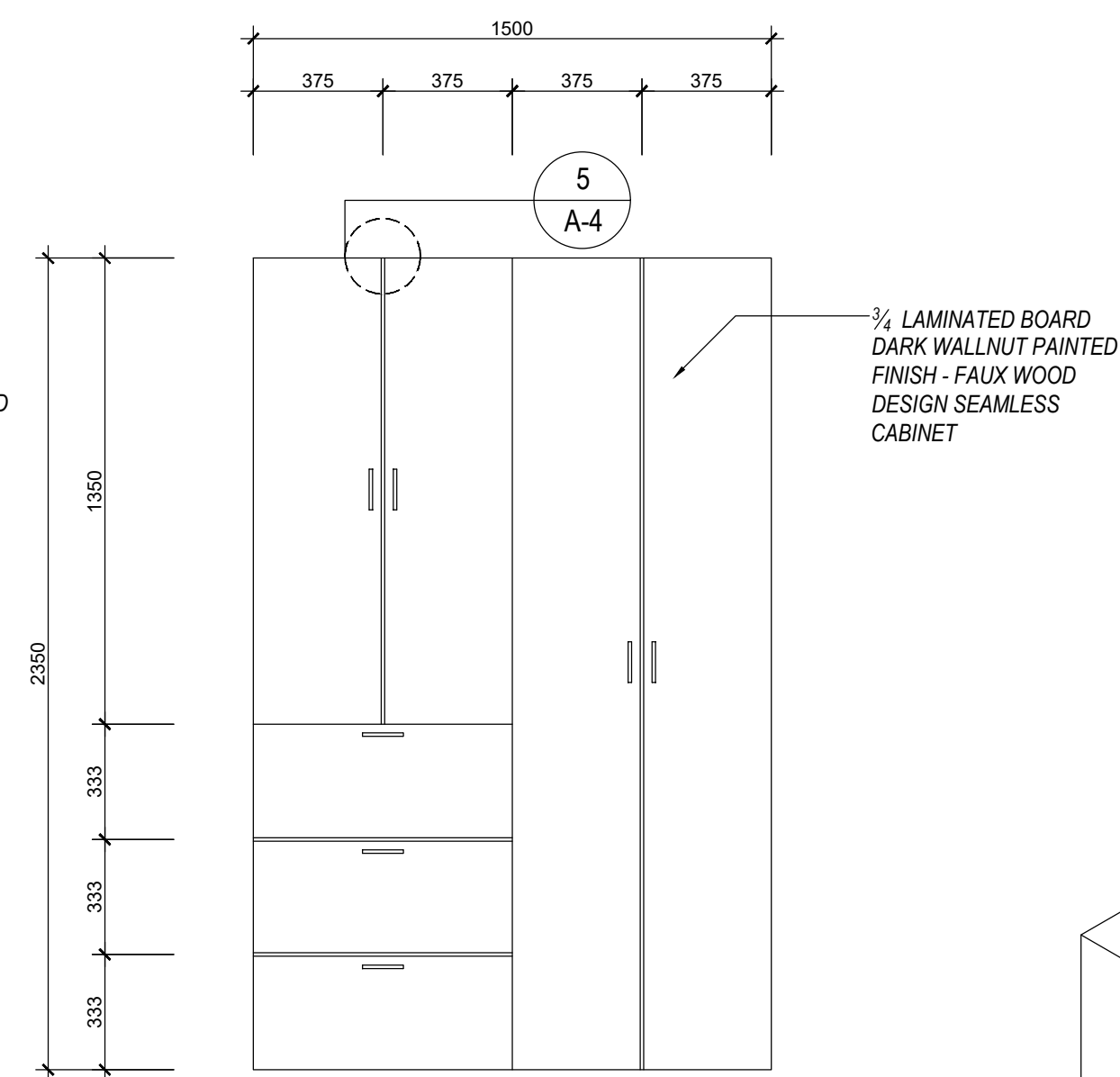
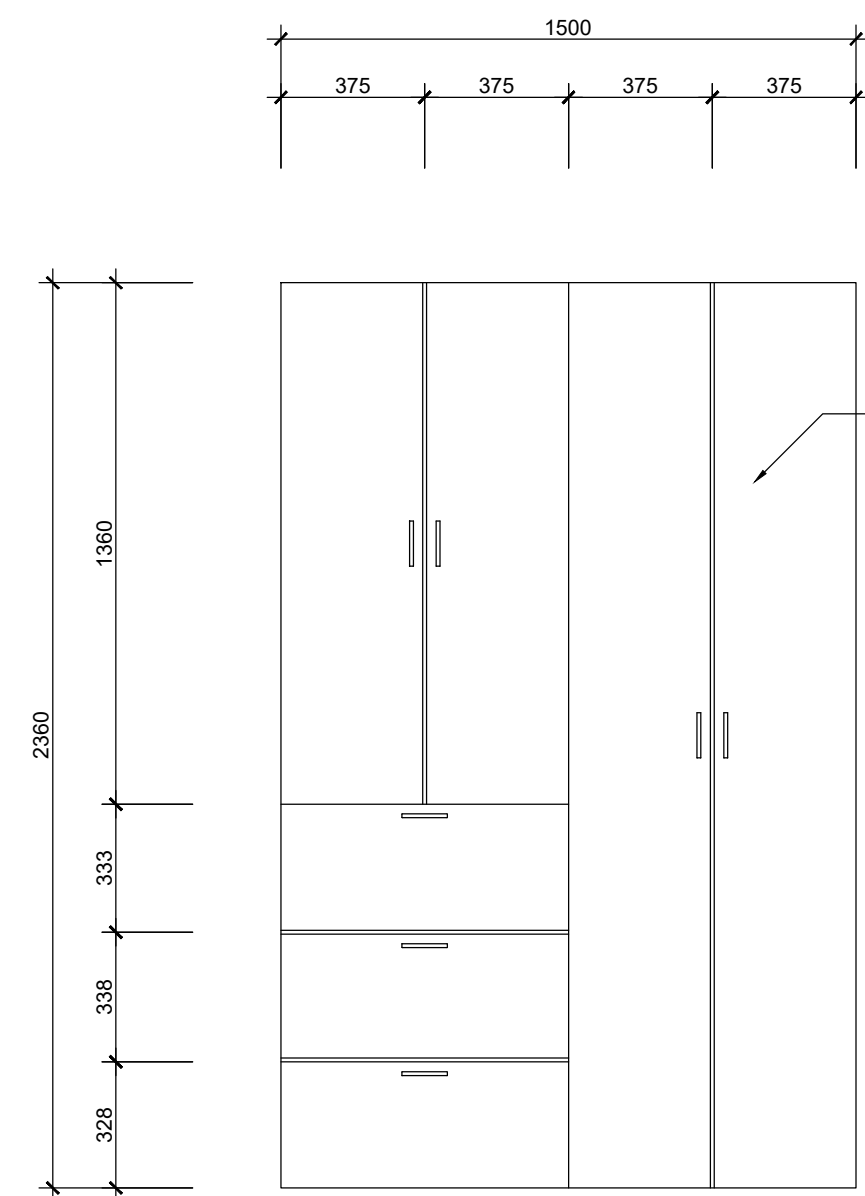
APPROVED BY:  
**RICHARD EMMANUEL P. RAGRAGIO**  
DISTRICT ENGINEER  
DATE:

CONCURRED BY:  
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DATE:


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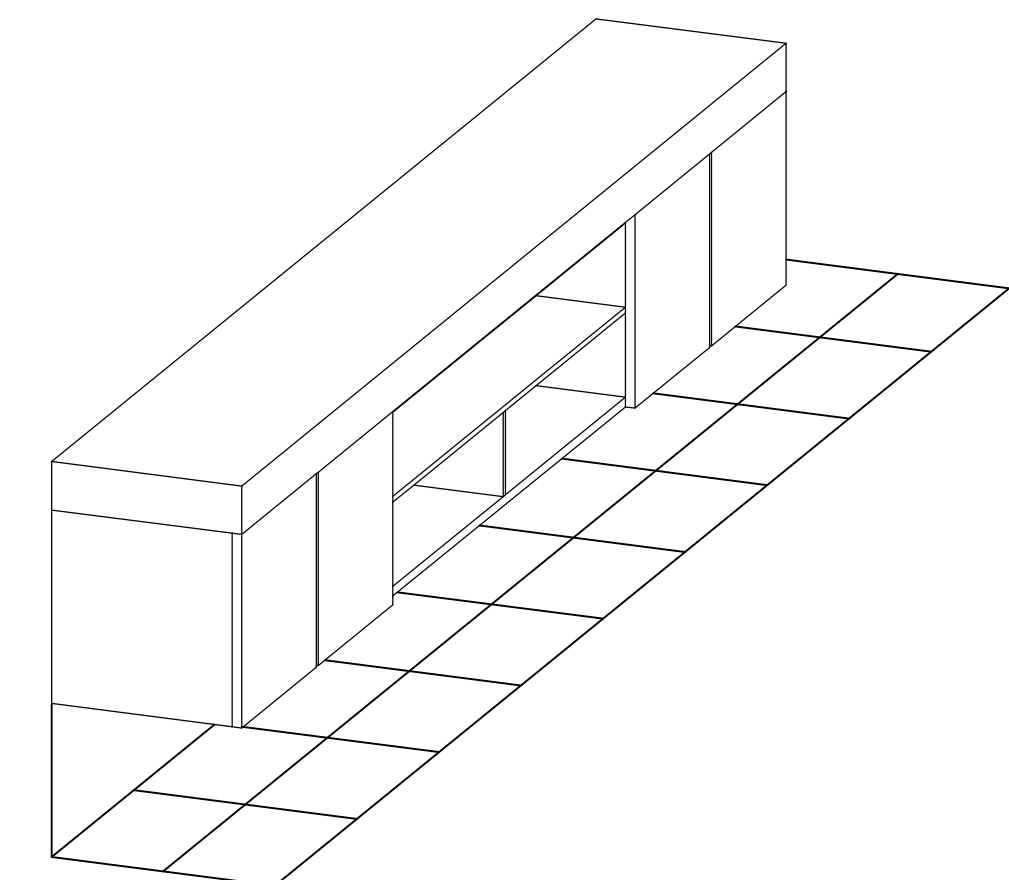
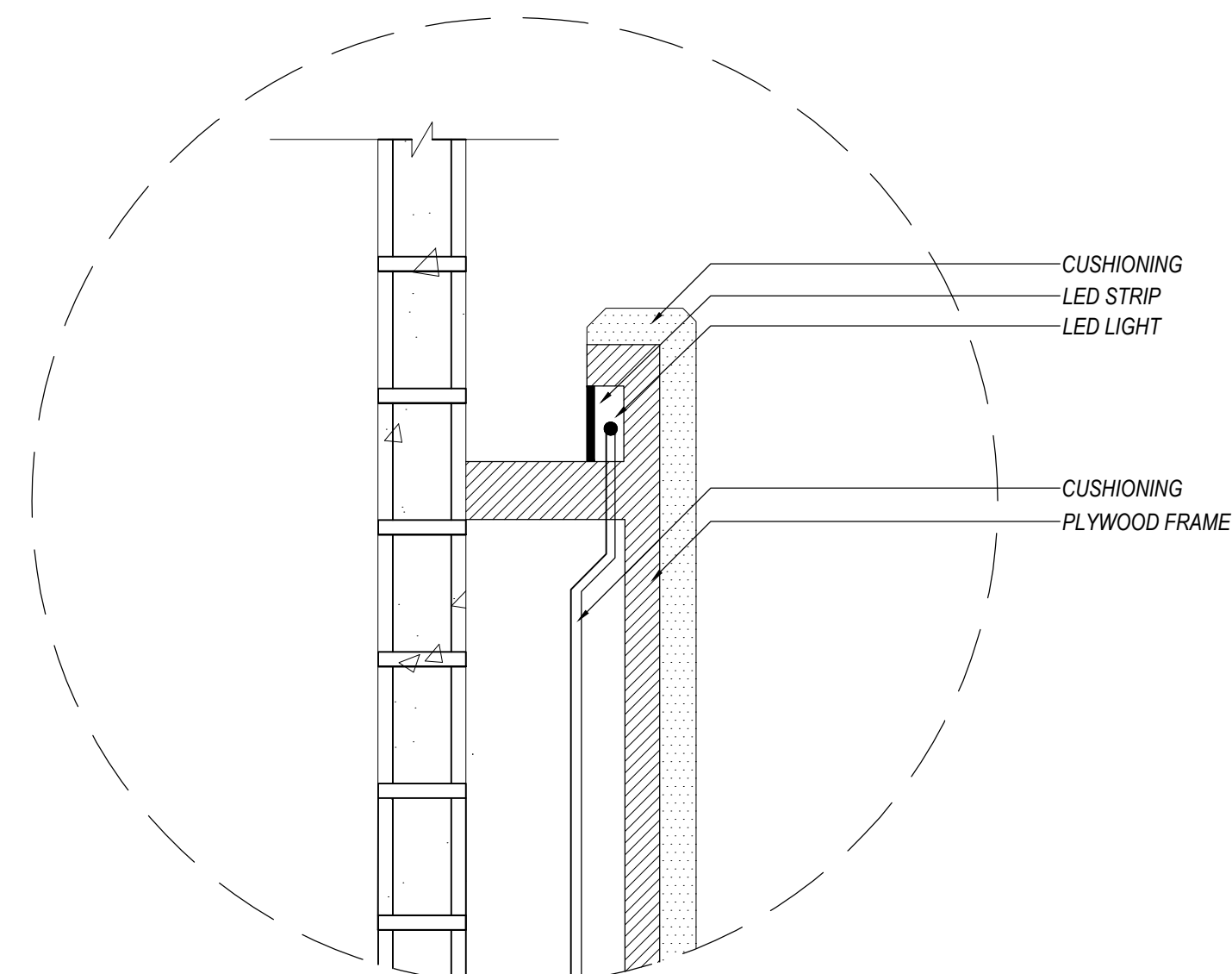
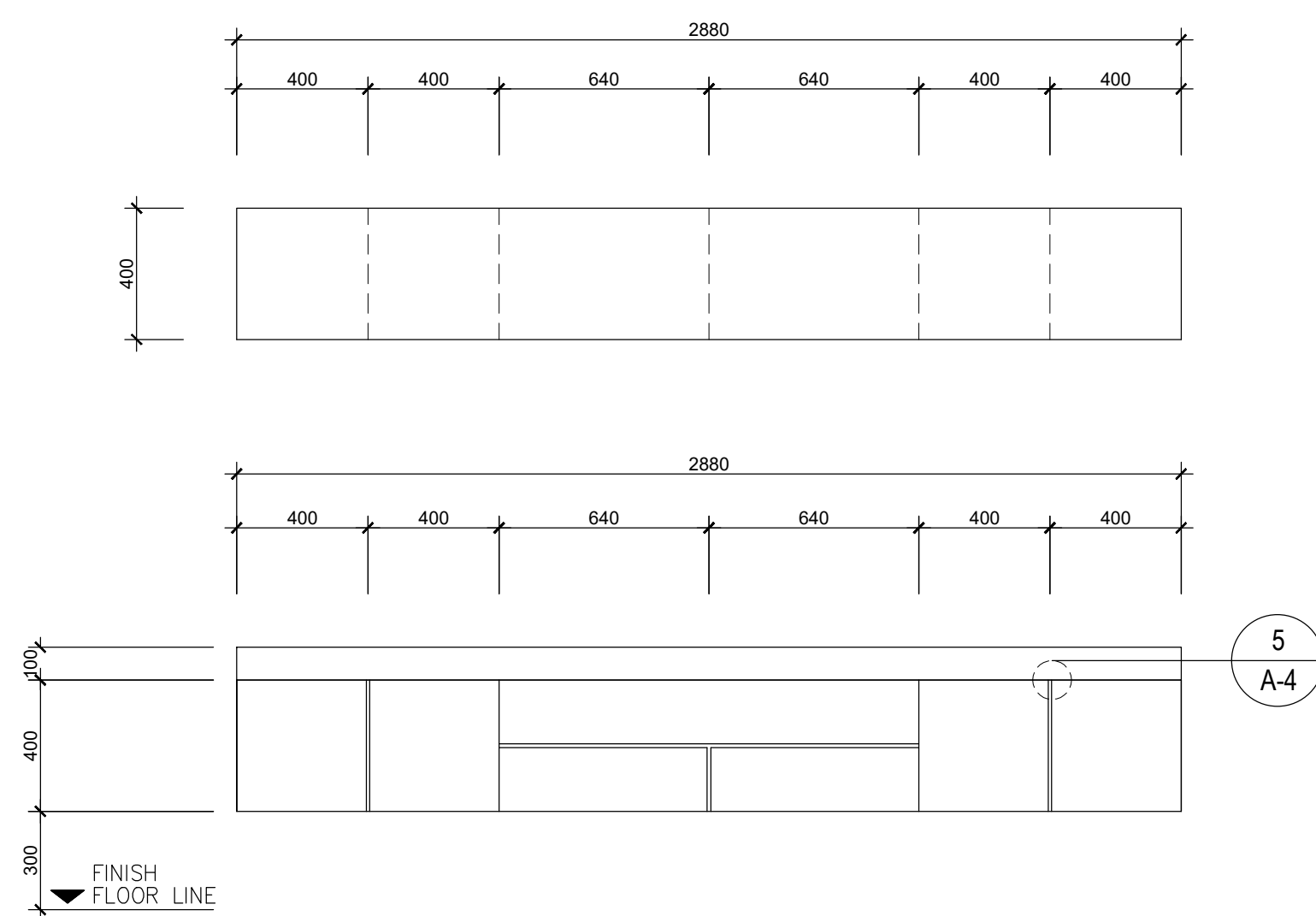
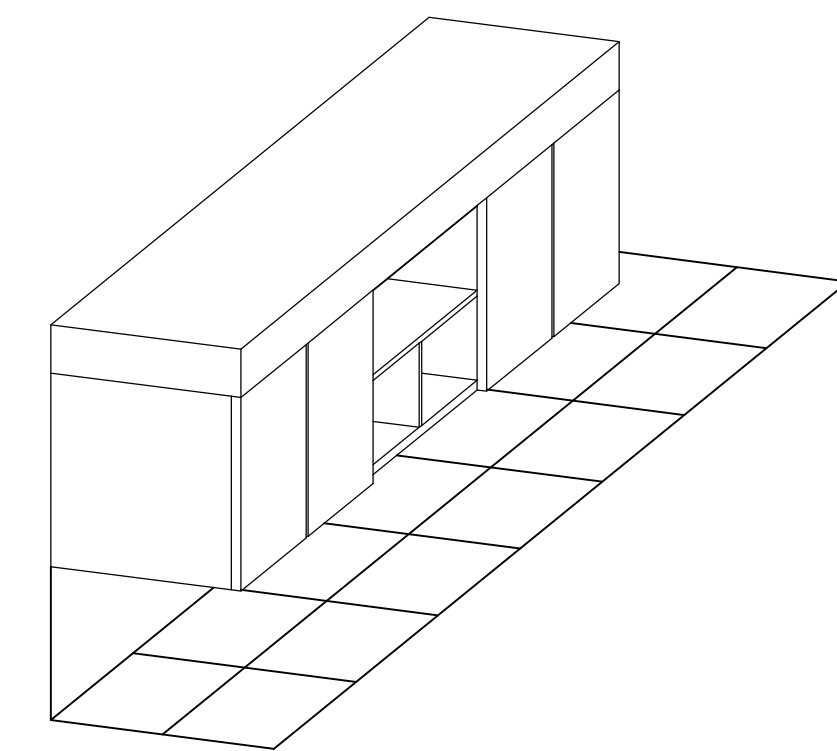
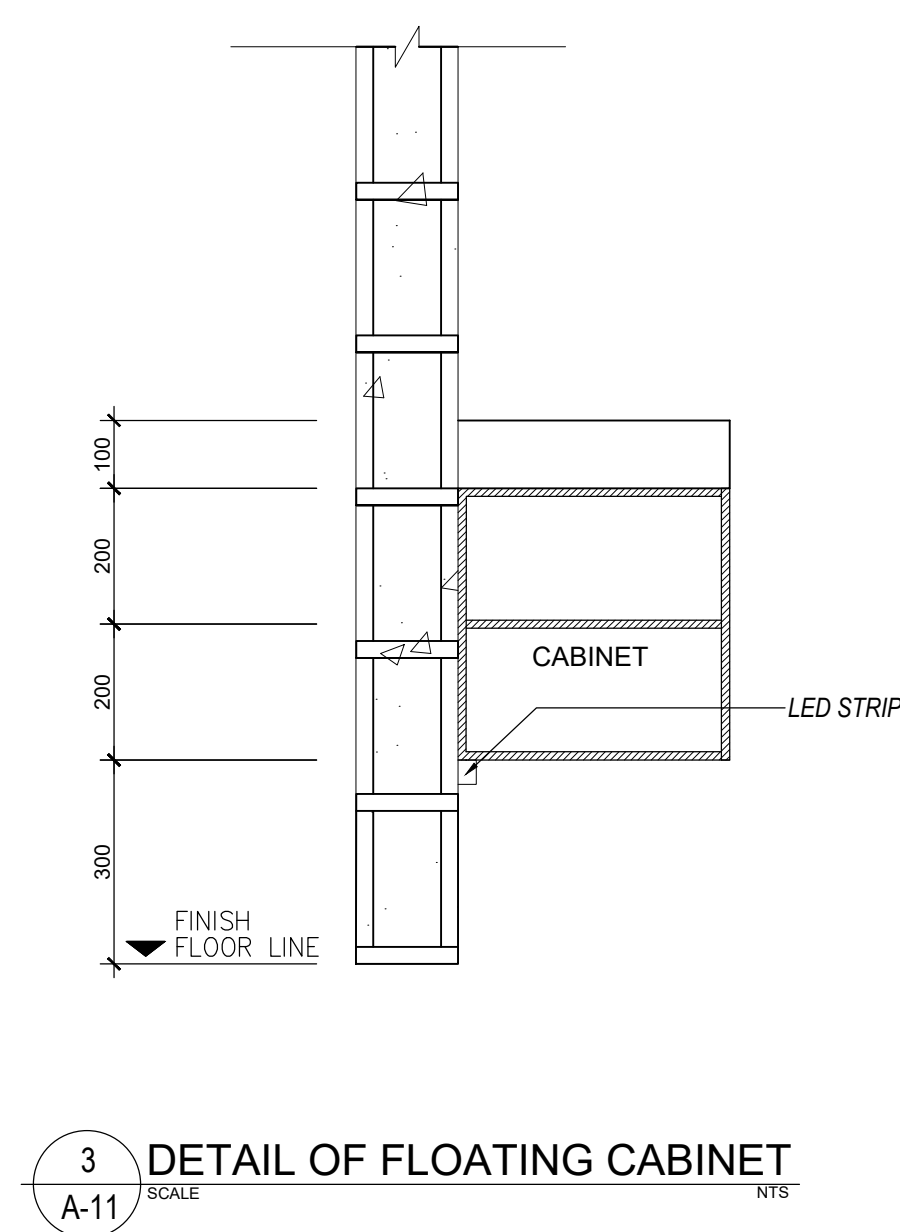
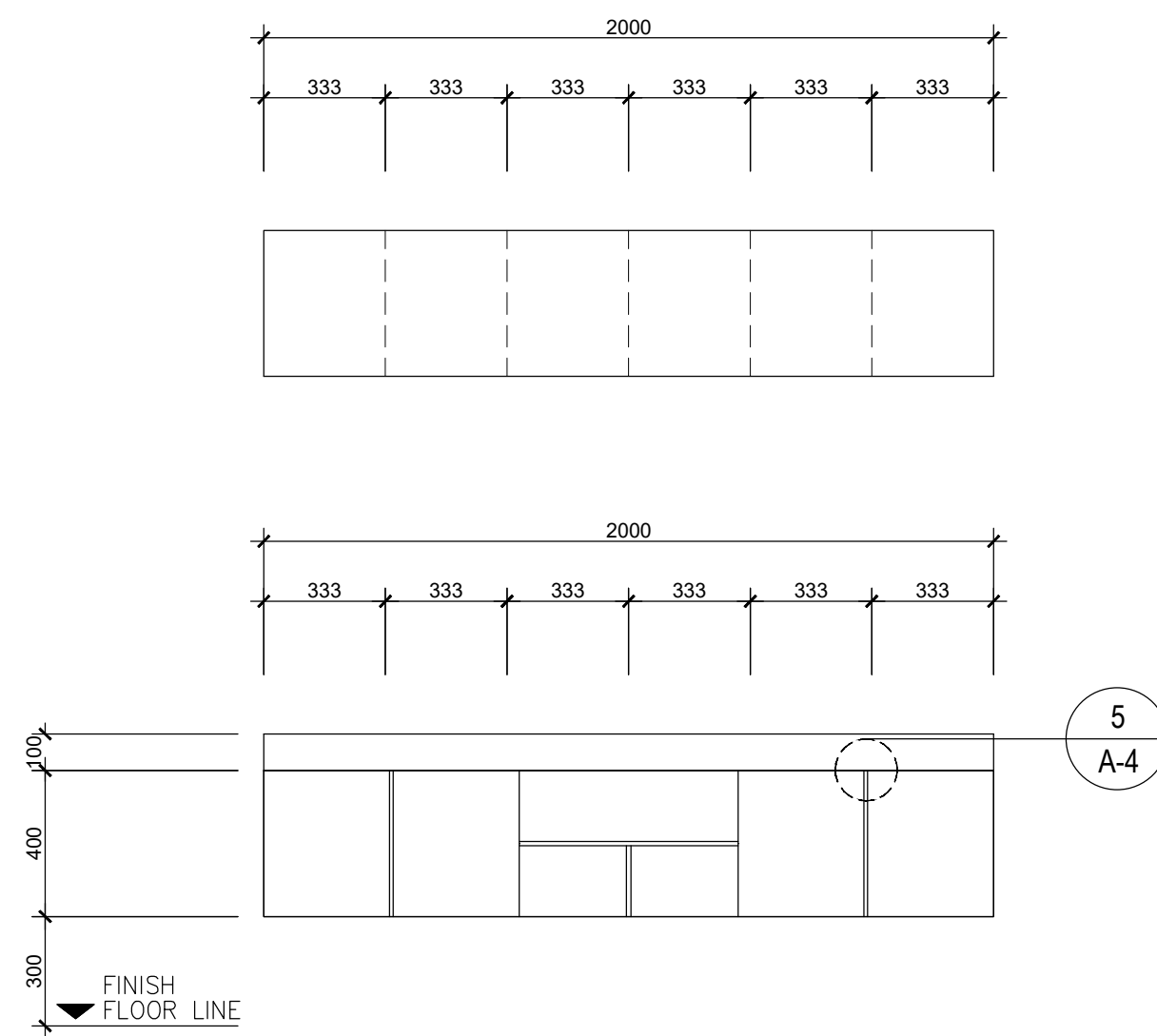
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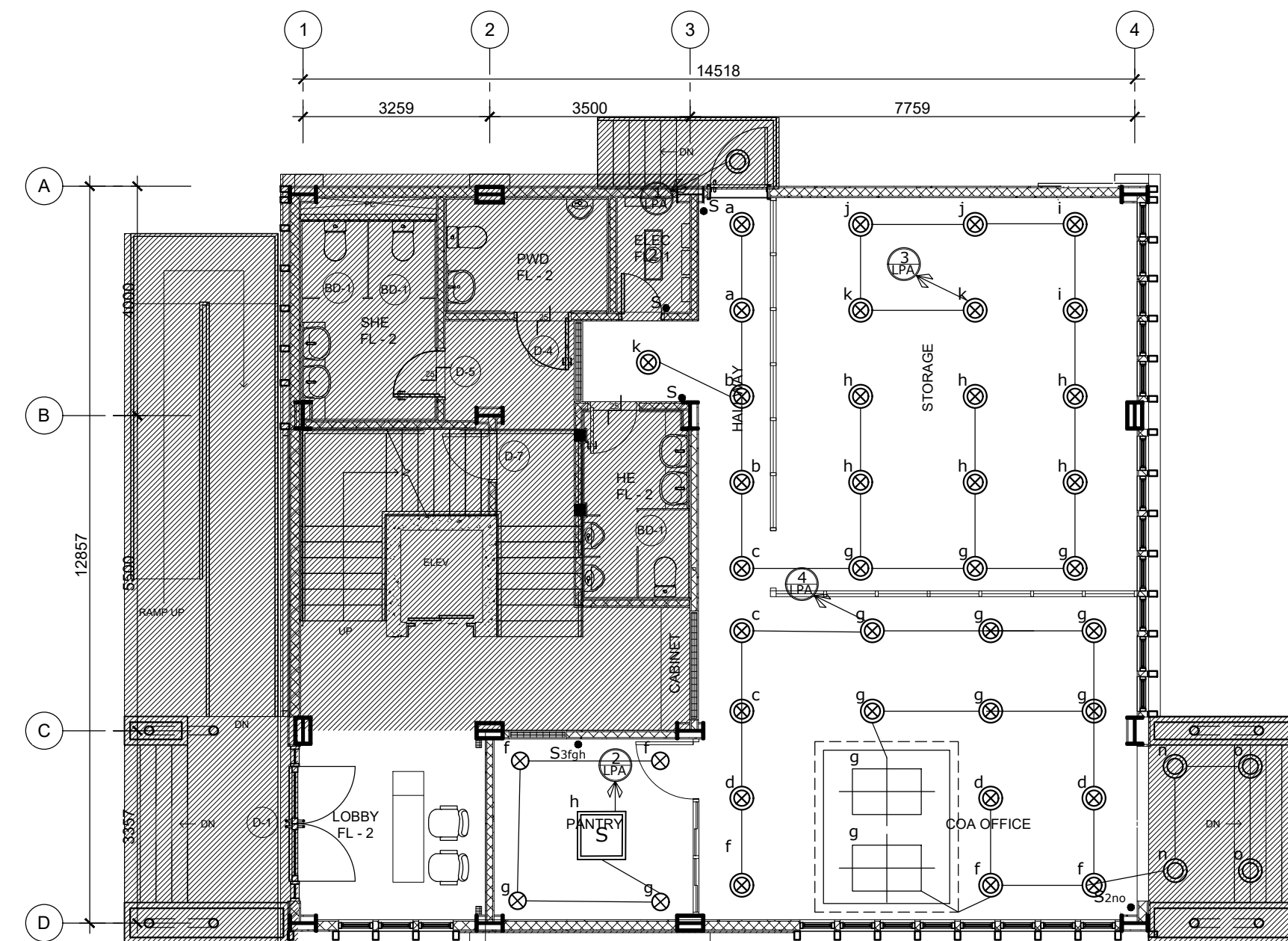
1 ELEVATION OF WARDROBE  
A-10 SCALE 1:20 MTS

<div><div>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGION IV-B, MIMAROPA MARINDUQUE DISTRICT ENGINEERING OFFICE BOAC, MARINDUQUE</div></div>	PROJECT NAME AND LOCATION:	SHEET CONTENTS:	DRAFTED BY:	REVIEWED BY:	SUBMITTED BY:	RECOMMENDED BY:	APPROVED BY:	CONCURRED BY:	SET NO.	SHEET NO.
	REHABILITATION/IMPROVEMENT OF ACCESSIBLTY FACILITIES FOR PHYSICALLY CHALLENGED PERSONS, BARANGAY BANGBANGALON BOAC, MARINDUQUE	ELEVATION OF WARDROBE SEAMLESS CABINET ISOMETRIC SPOT DETAIL ISOMETRIC	<div>KYLE ADRIAN M. JAGONG DRAFTSMAN I</div> <div>PREPARED BY:</div> <div>JAN HENRY R. ROSALES ARCHITECT II</div>	<div>JINKIE M. MONTERAS</div> <div>ENGINEER II</div> <div>DATE:</div>	<div>FERNAN S. DIAZ</div> <div>CHIEF, PLANNING AND DESIGN SECTION</div> <div>DATE:</div>	<div>RYAN N. DELA CRUZ</div> <div>OIC - ASSISTANT DISTRICT ENGINEER</div> <div>DATE:</div>	<div>RICHARD EMMANUEL P. RAGRAGIO</div> <div>DISTRICT ENGINEER</div> <div>DATE:</div>	<div>-----</div> <div>-----</div> <div>DATE:</div>	<div>A</div> <div>10 11</div>	<div>10</div> <div>13</div>

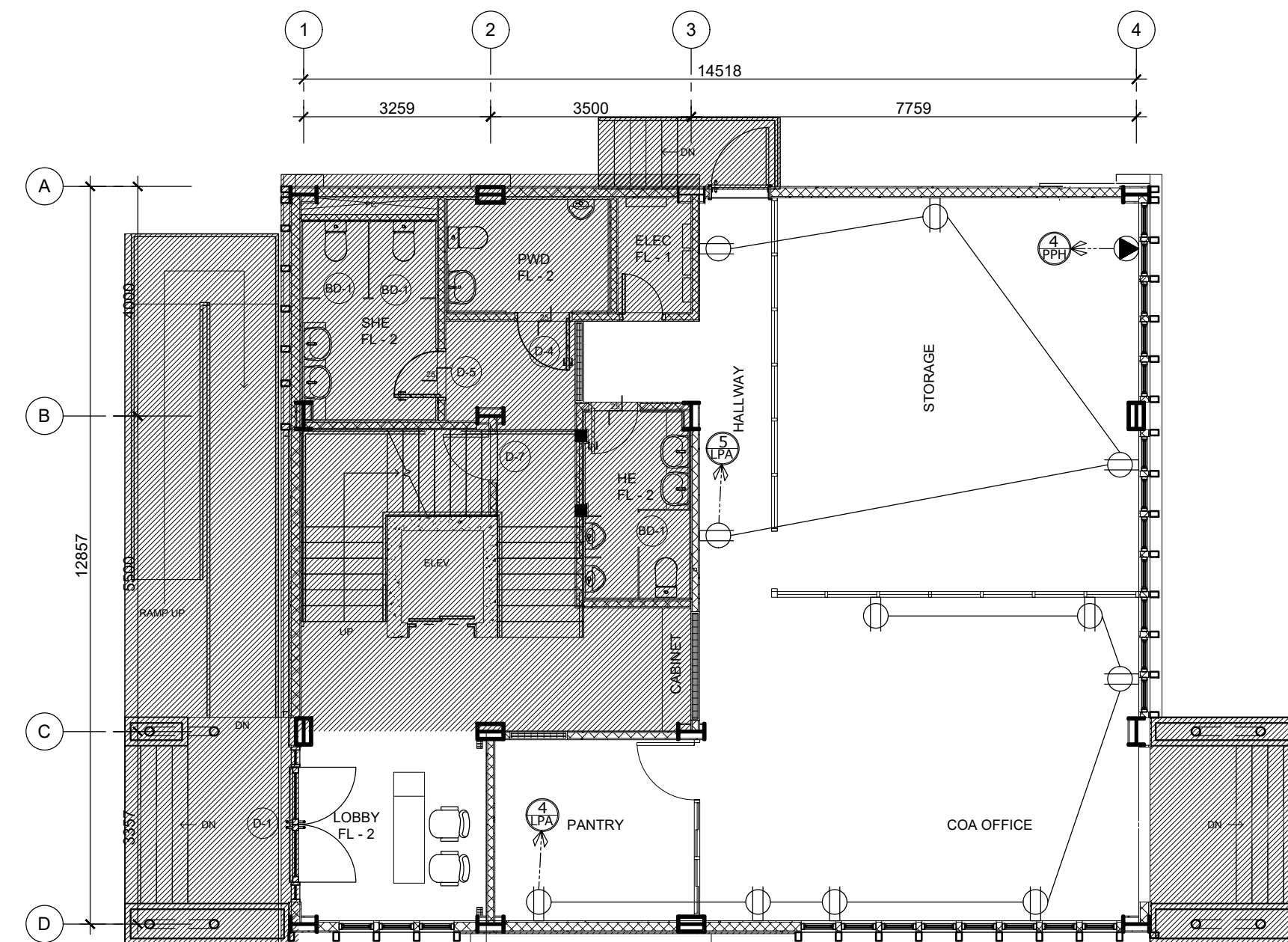


 <div> REPUBLIC OF THE PHILIPPINES  <b>DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</b>  REGION IV-B, MIMAROPA  MARINDUQUE DISTRICT ENGINEERING OFFICE  BOAC, MARINDUQUE </div>	PROJECT NAME AND LOCATION:	SHEET CONTENTS:	DRAFTED BY:	REVIEWED BY:	SUBMITTED BY:	RECOMMENDED BY:	APPROVED BY:	CONCURRED BY:	SET NO.	SHEET NO.
	REHABILITATION/IMPROVEMENT OF ACCESSIBILITY FACILITIES FOR PHYSICALLY CHALLENGED <b>PERSONS, BARANGAY</b> <b>BANGBANGALON BOAC,</b> <b>MARINDUQUE</b>	SEAMLESS TV RACK @ EXECUTIVE ROOM 1 SEAMLESS TV RACK @ EXECUTIVE ROOM 2 ISOMETRIC ISOMETRIC	<b>KYLE ADRIAN M. JAGONG</b> DRAFTSMAN I  PREPARED BY:  <b>JAN HENRY R. ROSALES</b> ARCHITECT U.	<b>JINKIE M. MONTERAS</b>  ENGINEER II  DATE:	 <b>FERNAN S. DIAZ</b>  CHIEF, PLANNING AND DESIGN SECTION  DATE:	 <b>RYAN N. DELA CRUZ</b>  OIC - ASSISTANT DISTRICT ENGINEER  DATE:	 <b>RICHARD EMMANUEL P. RAGRAGIO</b>  DISTRICT ENGINEER  DATE:	 -----  -----  DATE:	<div> <div>A</div> <div>11/11</div> </div>	<div> <div>11</div> <div>13</div> </div>

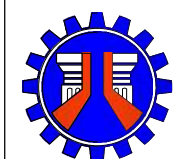




1  
E-2  
SCALE  
1:100MTS  
GROUND FLOOR LIGHTING LAYOUT



1  
E-3  
SCALE  
1:100MTS  
GROUND FLOOR POWER LAYOUT



REPUBLIC OF THE PHILIPPINES  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
REGION IV-B, MIMAROPA  
MARINDUQUE DISTRICT ENGINEERING OFFICE  
BOAC, MARINDUQUE

PROJECT NAME AND LOCATION:  
REHABILITATION/IMPROVEMENT OF  
ACCESSIBILITY FACILITIES FOR  
PHYSICALLY CHALLENGED  
PERSONS, BARANGAY  
BANGBANGALON BOAC,  
MARINDUQUE

SHEET CONTENTS:  
GROUND FLOOR LIGHTING LAYOUT  
GROUND FLOOR POWER LAYOUT

DRAFTED BY:  
JOHN LOUIE R. LINGON  
ENGINEER II  
PREPARED BY:  
ADRIAN V. LOZANO  
ENGINEER II

REVIEWED BY:  
JINKIE M. MONTERAS  
ENGINEER II  
DATE:

SUBMITTED BY:  
FERNAN S. DIAZ  
CHIEF, PLANNING AND DESIGN  
SECTION  
DATE:

RECOMMENDED BY:  
RYAN N. DELA CRUZ  
OIC - ASSISTANT DISTRICT ENGINEER  
DATE:

APPROVED BY:  
RICHARD EMMANUEL P. RAGRAGIO  
DISTRICT ENGINEER  
DATE:

CONCURRED BY:  
DATE:

SET NO.  
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SHEET NO.  
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13

GENERAL NOTES :

1. ALL ELECTRICAL WORKS SHALL COMPLY WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
2. THE ELECTRICAL SERVICE POWER SHALL BE 1-PHASE,2-WIRE,230V AC, 60Hz.
3. WIRING METHOD SHALL BE AS FOLLOWS: RIGID STEEL CONDUIT OR POLYVINYL CHLORIDE CONDUIT SCHEDULE 40 SHALL BE USED AS SPECIFIED IN THE PLAN.
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE WIRE FOR POWER CIRCUIT HOMERUN SHALL BE 3.5mm<sup>2</sup> RATED AT 600VOLTS. LIKE WISE, ALL CONDUCTORS SHALL BE COLOR-CODED. SMALLEST CAN BE USED FOR CONTROL SWITCHES FOR LIGHTING<sup>2</sup> WIRE OF 20 mm
5. ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE.
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND USAGE.
7. EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:

a. LIGHT SWITCH

- 1.20M ABOVE FINISH FLOOR

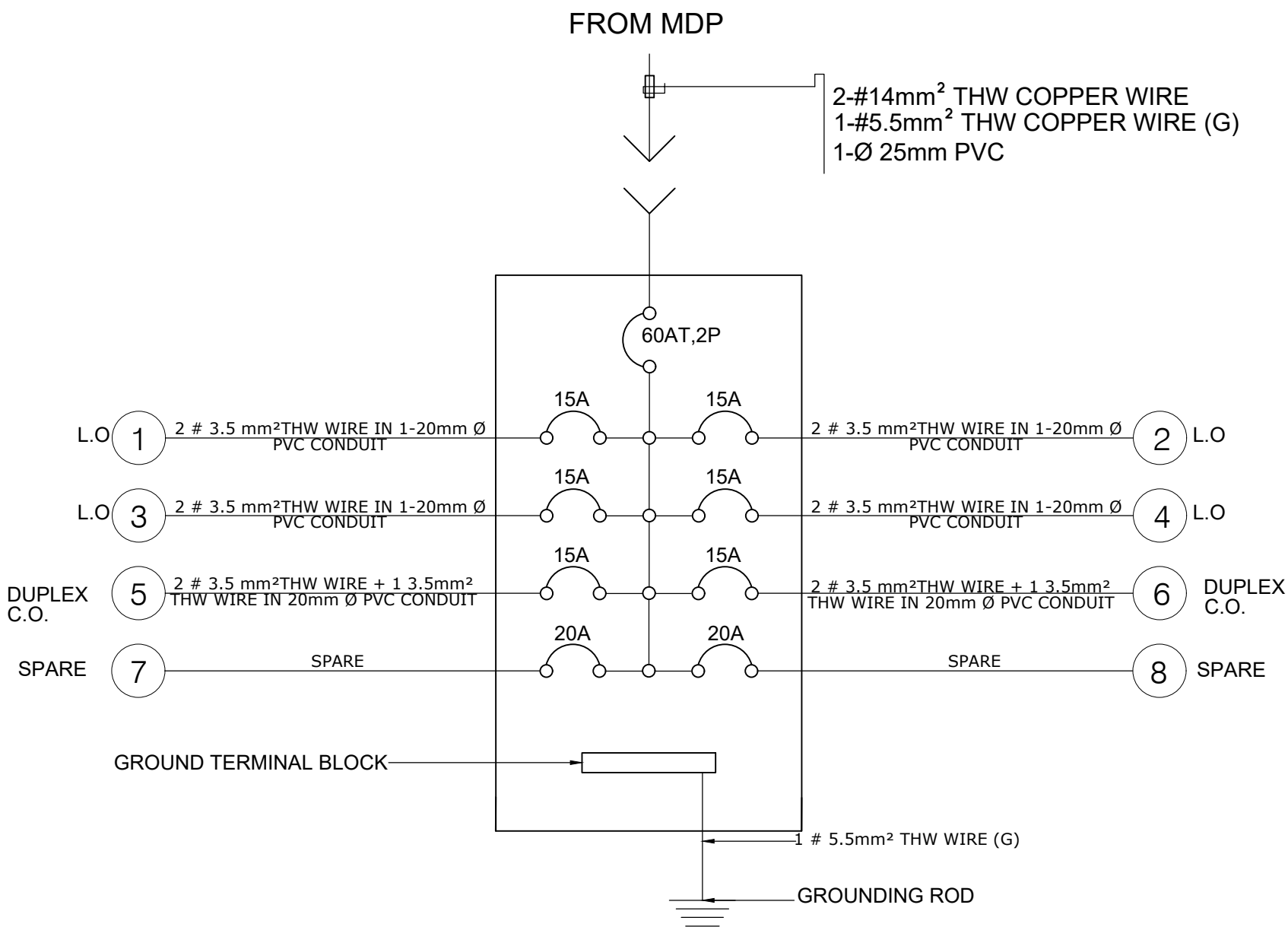
- 0.60M ABOVE FINISH FLOOR FOR EXECUTIVE ROOM HEADBOARD

b. CONVENIENCE OUTLET

- 0.3M ABOVE FINISH FLOOR
9. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF ADULY REGISTERED ELECTRICAL ENGINEER OR REGISTERED MASTER ELECTRICIAN
10. PANEL BOARD SHALL BE MADE UP OF GAUGE #18 G.I. SHEETS FOR BODY AND COVER. SPRAY PAINT IN COLOY GRAY. ALL CIRCUIT BREAKERS ARE BOLT ON AND ALL BUS BARS WITH COLOR CODED HEAT SHRINKABLE TUBE INSULATION WITH PROVISION OF 50% GROUNDING BUS OF THH MAIN BUS.
11. ENCLOSURE FINISHED SHALL BE SPRAY PAINT IN COLOR GRAY.
12. PROVIDE A 50% GROUNDING BUS OF THE MAIN BUS.
13. ENCLOSURE FINISHED SHALL BE SPRAY PAINT IN COLOR GRAY FOR BODY AND COVER.
14. ALL BUS BARS WITH COLOR CODED HEAT SHRINKABLE TUBE INSULATION.
15. ALL CIRCUIT BREAKERS ARE BOLT ON.

L E G E N D :

SYMBOL	DESCRIPTION
	SLIM LED PANEL 40WATTS, 230V, 60Hz
	RECESSED PIN LIGHT/DOWNLIGHT WITH 18W LED BULB, 230V, 60Hz
	RECESSED PIN LIGHT/DOWNLIGHT WITH 12W LED BULB, 230V, 60Hz
	CHANDELIER
	DOUPLEX CONVINIENCE OUTLET GROUNDING TYPE
	CIRCUIT HOMERUN
	LIGHTING SWITCH LOCATION
	CUT-OFF
	LIGHTING OUTLET
	CONVINIENCE OUTLET
	CIRCUIT BREAKER
	SINGLE GANG SWITCH
	TWO GANG SWITCH
	THREE GANG SWITCH

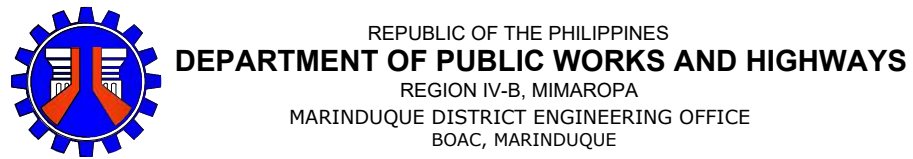
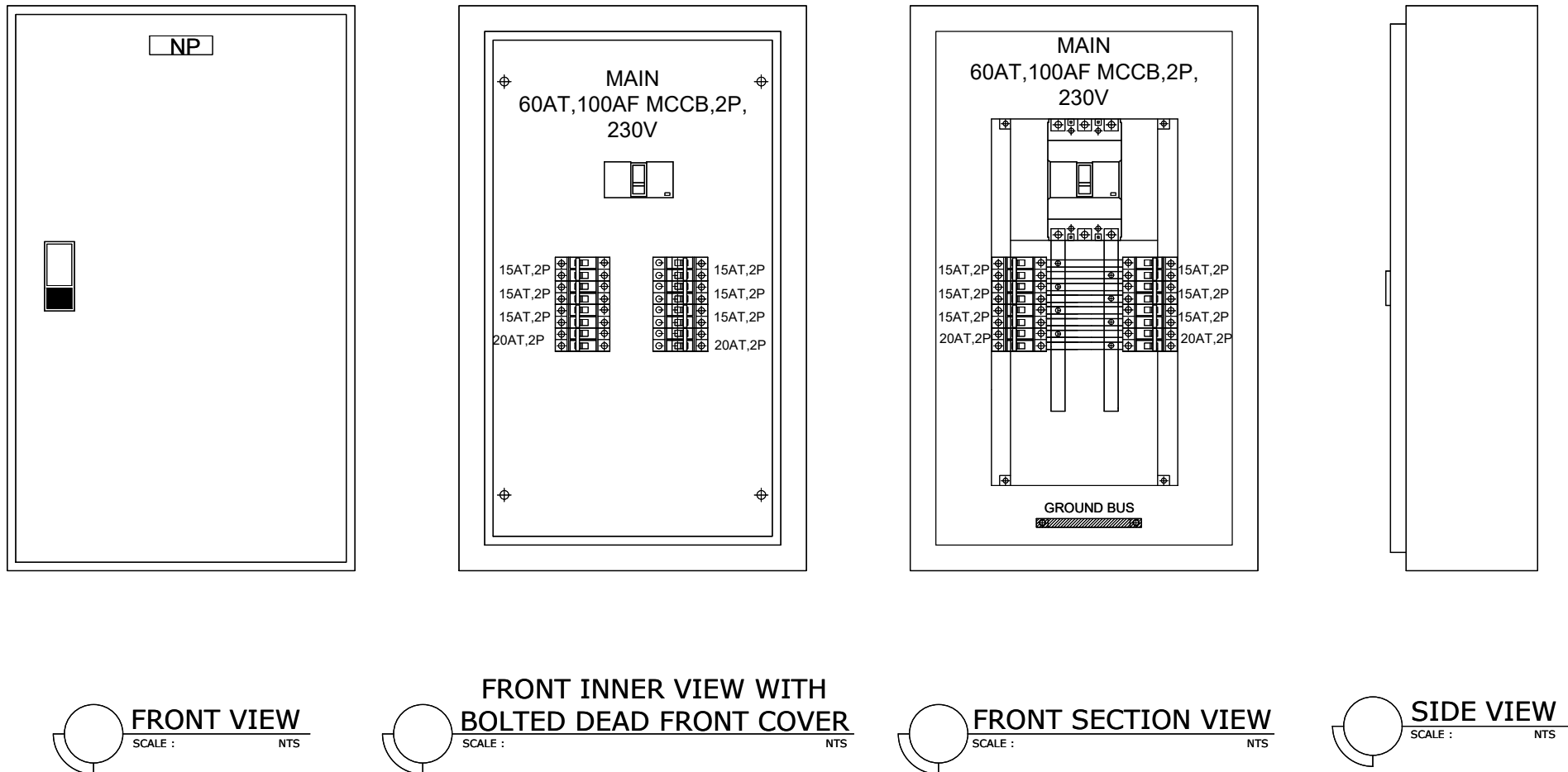


1 SINGLE LINE RISER DIAGRAM  
E-9 SCALE NTS

SCHEDULE OF LOADS LPA(EXISTING)

CIRCUIT NUMBER	LOAD DESCRIPTION	OUTLETS				SWITCHES				VOLT. AMP.	AMP.	VOLTS	OCPD BOLT-ON				SIZE OF WIRE	SIZE OF PVC ø mm	AREA SERVED
		O.L.	MOTOR	C.O.	L.O.	S	S2	S3	S3W				AT	AF	POLE	KAIC			
1	LIGHTING POINTS		6-EF		14	2	5			2000	8.69	230V	15	50	2	10	2 # 3.5 mm² THW WIRE	20 MMØ	THIRD FLOOR
2	LIGHTING POINTS				17		1	2	2	1700	7.39	230V	15	50	2	10	2 # 3.5 mm² THW WIRE	20 MMØ	THIRD FLOOR/ROOF DECK
3	LIGHTING POINTS				26		2	3		2600	11.3	230V	15	50	2	10	2 # 3.5 mm² THW WIRE	20 MMØ	THIRD FLOOR
4	LIGHTING POINTS				5	1	1			1000	4.35	230V	15	50	2	10	2 # 3.5 mm² THW WIRE	20 MMØ	THIRD FLOOR
5	DUPLEX CONVINIENCE OUTLET			7						1260	5.48	230V	15	50	2	10	2 # 3.5mm² THW WIRE 1# 3.5mm² THW WIRE	20 MMØ	THIRD FLOOR
6	DUPLEX CONVINIENCE OUTLET			7						1260	5.48	230V	15	50	2	10	2 # 3.5mm² THW WIRE 1# 3.5mm² THW WIRE	20 MMØ	THIRD FLOOR
7	SPARE									1500	6.52	230V	20	50	2	10	SPARE	SPARE	SPARE
8	SPARE									1500	6.52	230V	20	50	2	10	SPARE	SPARE	SPARE
	TOTAL									12,820									
MAXIMUM DEMAND IN KVA:		12,820 VA		O . C . P . D BOLT ON										SERVICE ENTRANCE CONDUCTOR:				2 # 14MM² THW WIRE	
MAXIMUM DEMAND IN AMP:		47.38 A		BREAKER		AT	AF	P	KAIC	QTY.	TYPE	VOLTS	GROUNDING CONDUCTOR:		1 # 5.5MM² THW WIRE				
				MAIN		60	100	2	18	1	MCCB	230	MAIN CONDUIT:		1Ø 25MM PVC				
				BRANCHES		15	50	2	10	6	MCB	230							
						20	50	2	10	2	MCB	230							
COMPUTATIONS:										FOR MAIN FEEDER CONDUCTOR					FOR MAIN DISCONNECTION				
GENERAL LIGHTING & SMALL APPLIANCE LOAD 85% = 12,820VA x 0.85 =10,897 VA										$I_L = \frac{10,897 \text{ VA}}{230V} = 47.38 \text{ A}$					USE: 60AT, 100AF, 2P, MCCB ACB BOLT ON WITH 6 Nos. 15AT, 50AF & 2 Nos. 20AT, 50AF MCB WITH GROUND BUS				
										USE: 2NOS.14 mm² THW WIRE 1NO. 5.5 mm² THW WIRE (G) IN 1Ø 25 mmØ PVC CONDUIT									

LPA - LIGHTING & POWER PANEL BOARD 1ST FLOOR (EXISTING)



PROJECT NAME AND LOCATION: <b>REHABILITATION/IMPROVEMENT OF ACCESSIBLTY FACILITIES FOR PHYSICALLY CHALLENGED PERSONS, BARANGAY BANGBANGALON BOAC, MARINDUQUE</b>	SHEET CONTENTS:  GENERAL NOTES : SCHEDULE OF LOADS LPA(EXISTING) SINGLE LINE RISER DIAGRAM	DRAFTED BY:  <b>JOHN LOUIE R. LINGON</b> ENGINEER II  PREPARED BY:  <b>ADRIAN V. LOZANO</b> ENGINEER II	REVIEWED BY:  <b>JINKIE M. MONTERAS</b> ENGINEER II  DATE:	SUBMITTED BY:  <b>FERNAN S. DIAZ</b> CHIEF, PLANNING AND DESIGN SECTION  DATE:	RECOMMENDED BY:  <b>RYAN N. DELA CRUZ</b> OIC - ASSISTANT DISTRICT ENGINEER  DATE:	APPROVED BY:  <b>RICHARD EMMANUEL P. RAGRAGIO</b> DISTRICT ENGINEER  DATE:	CONCURRED BY:  ----- -----  DATE:	SET NO.  <b>E</b> <b>2 2</b>	SHEET NO.  <b>13</b> <b>13</b>
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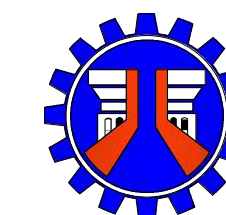


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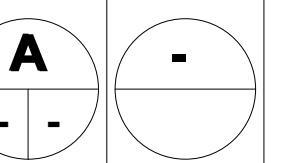


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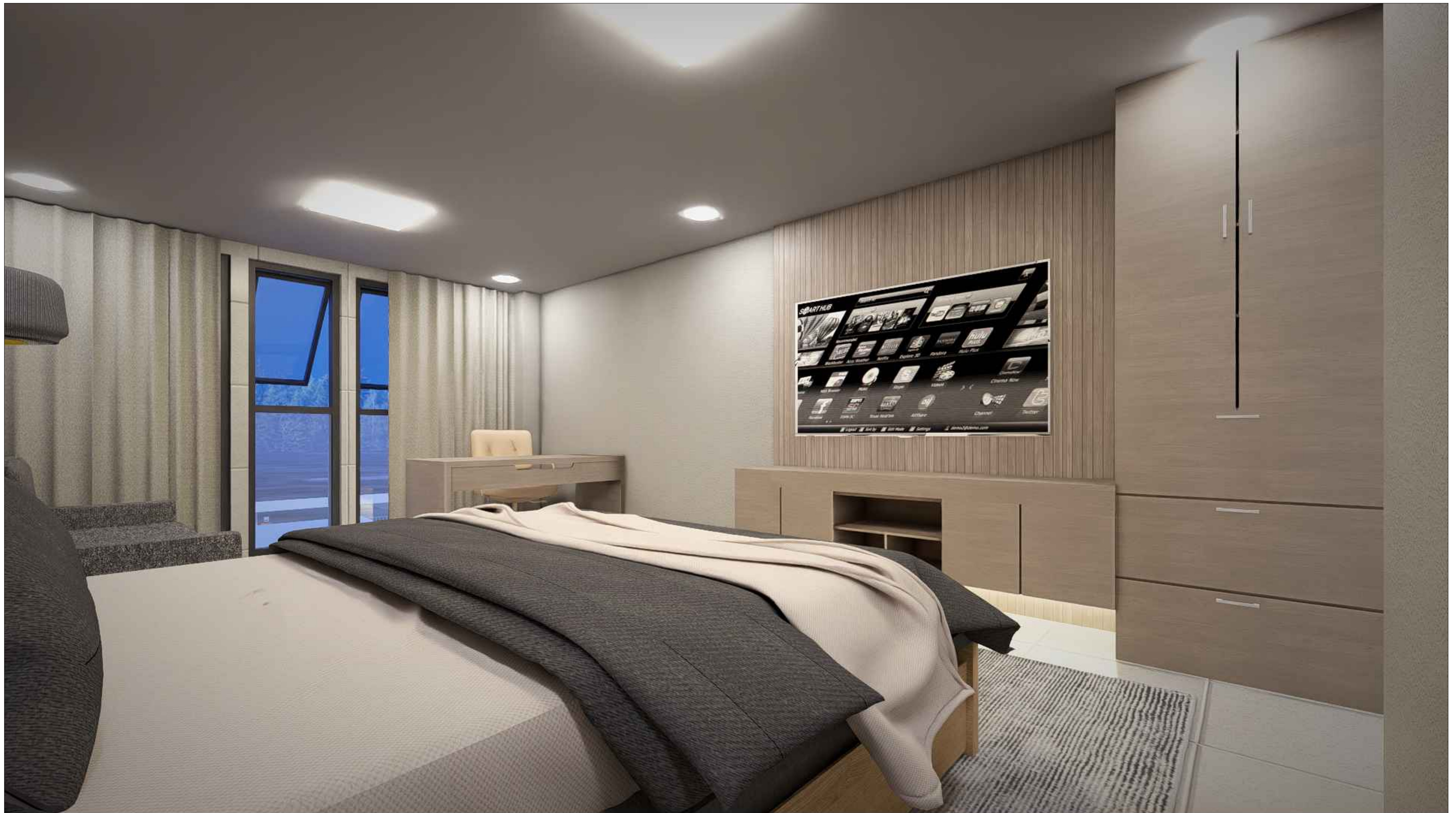


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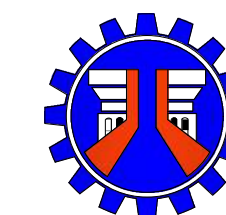
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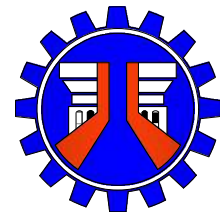
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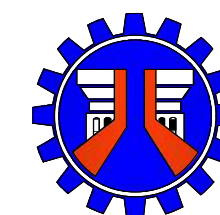
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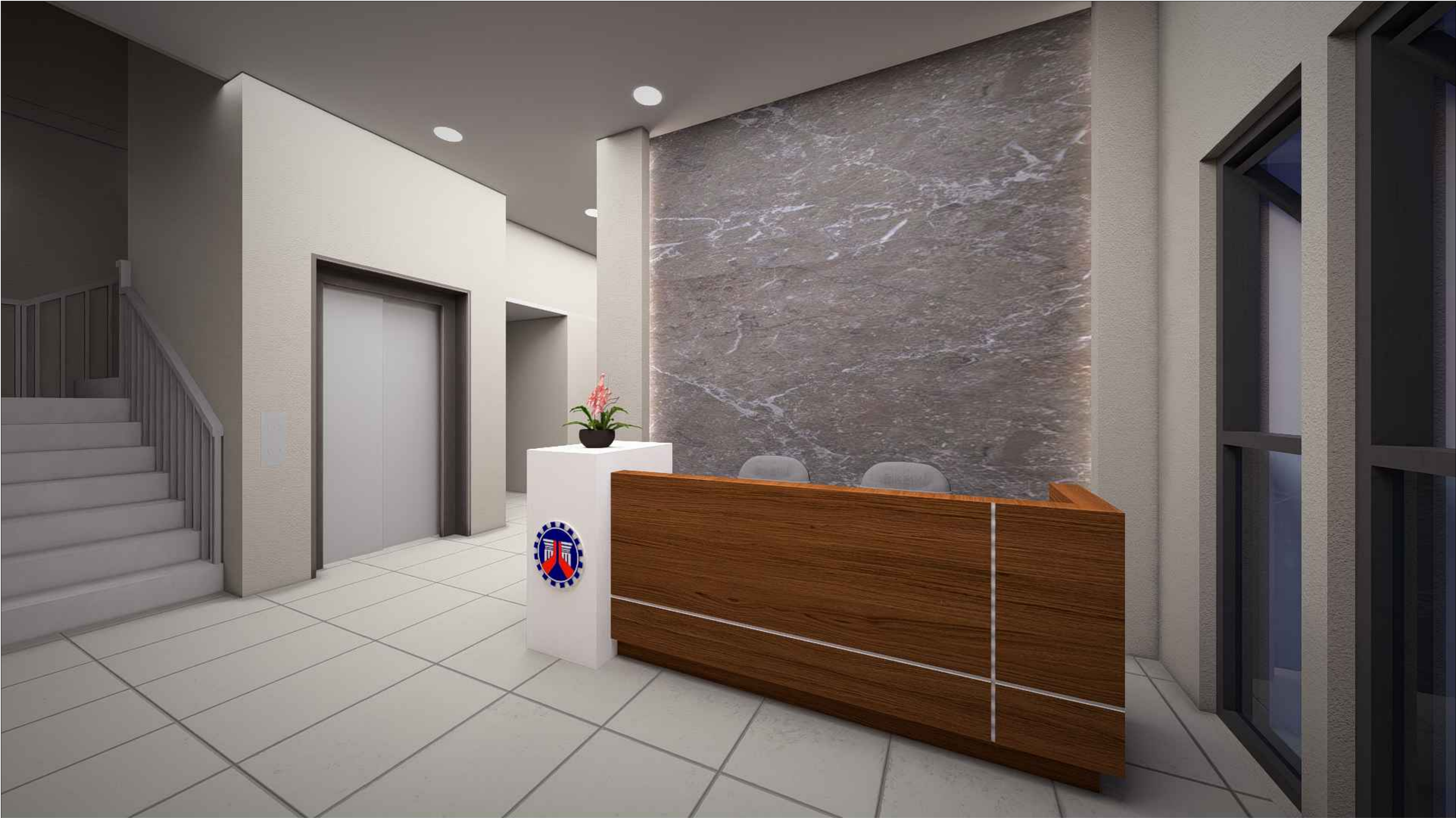
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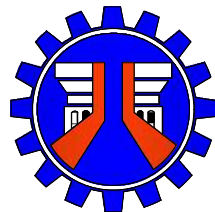
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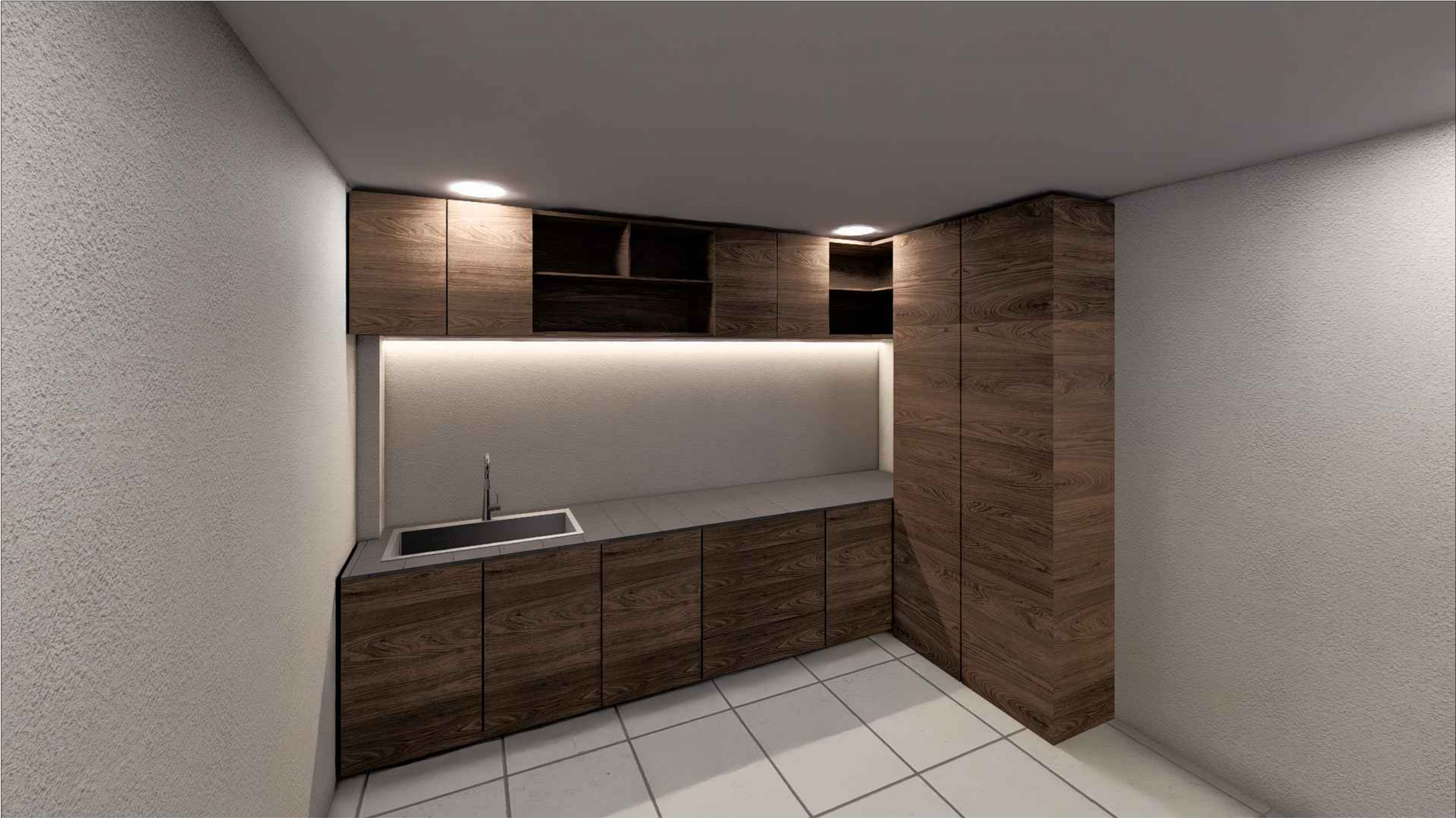
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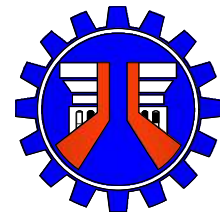
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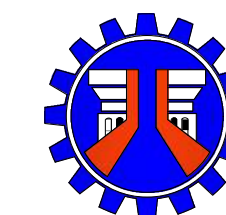
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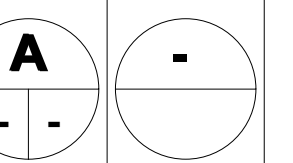


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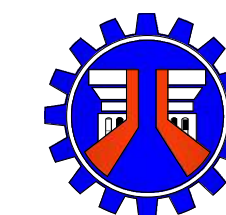
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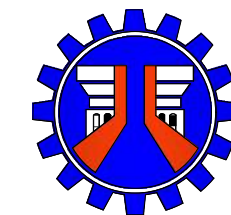
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