



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
**NORTHERN SAMAR 2ND
DISTRICT ENGINEERING OFFICE**
BRGY. BURABUD, LAOANG, NORTHERN SAMAR, REGION VIII

C.Y. 2025 PROJECTS
DETAILED ENGINEERING DESIGN FOR
**CONSTRUCTION OF ONE (1) STOREY, TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS, LAOANG, NORTHERN SAMAR
LAOANG, NORTHERN SAMAR**

SUBMITTED:


FIONA A. ANUNCIADO
CHIEF, PLANNING & DESIGN SECTION

DATE: **21 MAY 2025**

RECOMMENDED:


FRANCISCO Y. TALAÑA
OIC, ASST. DISTRICT ENGINEER

DATE: **22 MAY 2025**

APPROVED:


ATTY. ARTHUR ERIC L. SABONG, CE
OIC, DISTRICT ENGINEER

DATE: **22 MAY 2025**

CONCURRED BY:


GAUDENCIO C. ALJIBE JR., PhD, CESO VI
SCHOOLS DIVISION SUPERINTENDENT

DATE: **18 JUN 2025**



PERSPECTIVE

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ARCHITECTURAL	ARCHITECTURAL	STRUCTURAL	ELECTRICAL
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Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
NORTHERN SAMAR 2ND
DISTRICT ENGINEERING OFFICE
BRD: BULACOG, LAOANG, NORTHERN SAMAR, REGION VII

PROJECT NAME AND LOCATION
CONSTRUCTION OF ONE (1) STOREY,
TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS,
LAOANG, NORTHERN SAMAR

SHEET CONTENTS
PERSPECTIVE
TABLE OF CONTENTS

DRAFTED
LUCITA AMY MARIE D. ESIDERA
ARCHITECT
PREPARED
TAM FRANCIS DIANE G. PERFECTO
ARCHITECT
DATE
20 MAY 2025

CHECKED
RYAN H. GALLANO
ENGINEER
DATE
21 MAY 2025

SUBMITTED
NORA A. BALUNCIADO
CHIEF PLANNING & DESIGN SECTION
DATE
21 MAY 2025

RECOMMENDED
FRANCISCO Y. TANALA
DISTRICT ENGINEER
DATE
22 MAY 2025

APPROVED
ATTY. ARTHUR ERIC D. MARINO, CE
DISTRICT ENGINEER
DATE
22 MAY 2025

SET NO.
A
2
SHEET NO.
16
30

SUMMARY OF QUANTITIES				
SCOPE OF WORKS		QUANTITY	UNIT	REMARKS
ITEM NO.	OTHER GENERAL REQUIREMENTS	AS-PLAN		
B.3(1)	Permits and Clearances	1.00	ls	
B.5(1)	Project Billboard / Sign Board	1.00	ea	
B.7(1)	Occupational Safety and Health	1.00	ls	
B.9(1)	Mobilization / Demobilization	1.00	ls	
EARTHWORKS				
803(1)a	Structure Excavation	132.00	cu.m	
804(1)a	Embankment from Roadway / Structure Excavation	86.00	cu.m	
804(2)a	Embankment from Borrow	56.00	cu.m	
804(7)	Gravel Fill	12.00	cu.m	
PLAIN AND REINFORCED CONCRETE WORKS				
900(1)c	Structural Concrete (Class A, 28 Days)	66.00	cu.m	
902(1)a1	Reinforcing Steel (Deformed) Grade 40	9,483.00	kg	
902(1)a2	Reinforcing Steel (Deformed) Grade 40	4,373.00	kg	
903(2)	Forms and Falseworks	154.00	sq.m	
FINISHING				
1046(2)a2	150mm CHB Non load Bearing wall (including Reinforcing Steel)	203.00	sq.m	
FABRICATED MATERIALS				
1010(4)	Wooden Doors and Windows	1.0	ls	
1005(6)	Window Accessory (Window Grills)	1.0	ls	
1003(17)	Carpentry and Joinery Works	1.0	ls	
1004(2)	Finishing Hardware	1.0	ls	
FINISHING WORKS				
1021(1)c	Cement Finish with floor hardener	171.00	sq.m	
1003(15)c	Pre-cast Concrete Moulding	110.00	m	
1027(1)	Plain Cement Plaster Finish	386.00	sq.m	
1051(6)	Railings/Handrails	1.00	ls	
1003(1)a1	Fiber Cement Board on Metal Frame	171.00	sq.m	
1018(1)	Galzed Tiles and Trims	12.00	sq.m	

SUMMARY OF QUANTITIES				
SCOPE OF WORKS		QUANTITY	UNIT	REMARKS
ITEM NO.		AS-PLAN		
PAINTING WORKS				
1032(1)a	Masonry/Concrete Painting	386.00	sq.m	
1032(1)a2	Wood Painting	42.00	sq.m	
1032(1)a3	Metal Painting	25.00	sq.m	
ROOF FRAMING AND ROOFING WORKS				
1014(1)a1	Pre-painted Metal Sheets, Long Span, Corrugated	180.00	sq.m	
1013(2)a	Fabricated Metal Roofing Accessory (Ridge Roll,0.6mm thk)	18.00	m	
1013(2)b	Fabricated Metal Roofing Accessory (Flashing)	30.00	m	
1047(1)a	Structural Steel, Trusses	1,352.00	kg	
1047(1)b	Structural Steel, Purlins	2,861.00	kg	
1047(10)	Metal Structure Accessories	1.00	l.s.	
1047(7)b	Metal Structure Accessories, Sag Rods	43.00	kg	
1047(4)	Metal Structure Accessories, Cross Bracing	171.00	kg	
1047(3)c	Metal Structure Accessories, Turn Buckle	16.00	ea	
PLUMBING				
1002(24)	Cold Water Line Works	1.0	ls	
1001(9)	Storm Drainage and Downspout	1.0	ls	
1002(27)	Plumbing Fixtures	1.0	ls	
ELECTRICAL				
1100(19)	Conduits, Boxes, and Fittings	1.0	ls	
1101(18)	Wires and Wiring Devices	1.0	ls	
1102(21)	Panelboards with Main and Branch Breakers	1.0	ls	
1003(1)	Lighting Fixtures	1.0	ls	

 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS NORTHERN SAMAR 2ND DISTRICT ENGINEERING OFFICE BRUY BUNABUO, LACANG, NORTHERN SAMAR, REGION VIII	PROJECT NAME AND LOCATION	SHEET CONTENTS	DRAFTED	CHECKED	SUBMITTED	RECOMMENDED	APPROVED	SET NO.	SHEET NO.
	CONSTRUCTION OF ONE (1) STOREY, TWO (2) CLASSROOM SCHOOL BUILDING IN OLERAS ELEMENTARY SCHOOL, BARANGAY OLERAS, LACANG, NORTHERN SAMAR	SUMMARY OF QUANTITIES	LUCITA ARMY MARK D. ESIDERA ARCHITECT I DATE: 20 MAY 2025	RYAN H. GALLANO REGISTERED PROFESSIONAL ENGINEER DATE: 21 MAY 2025	FRONA A. BRUNCIADO CHIEF PLANNING DESIGN SECTION DATE: 21 MAY 2025	FRANZ JOY TAYALA REGISTERED DISTRICT ENGINEER DATE: 22 MAY 2025	ATTY. ARTHUR ERIC L. SABONG, CE LEGAL COUNSEL DATE: 22 MAY 2025	A 3 16	3 30

20 MAY 2025

21 MAY 2025

21 MAY 2025

22 MAY 2025

22 MAY 2025

2440mm (8 ft)

1220 (4 ft)

THIS IS WHERE YOUR TAXES GO

NAME OF PROJECT:
LOCATION:
NAME OF CONTRACTOR:
DATE STARTED:
CONTRACT COMPLETION DATE:
CONTRACT COST:
IMPLEMENTING OFFICE:
SOURCE OF FUND:

Department of Public Works and Highways
1015 Manila, Philippines
www.dpw.gov.ph

DPWH STANDARD PROJECT BILLBOARD

GENERAL NOTES:

1. FONT STYLE SHALL BE ARIAL, WHILE THE DIMENSION AND LETTER SIZES AS INDICATED ON THE DESIGN LAYOUT SHALL BE ON WHITE BACKGROUND.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

2440mm (8 ft)

COMMISSION ON AUDIT
(PROVINCE AND CITY)

Project: Cost:
Location: Fund Source:
Implementing Agency:
Development Partner:
Contractor/Supplier:
Brief Description of Project:

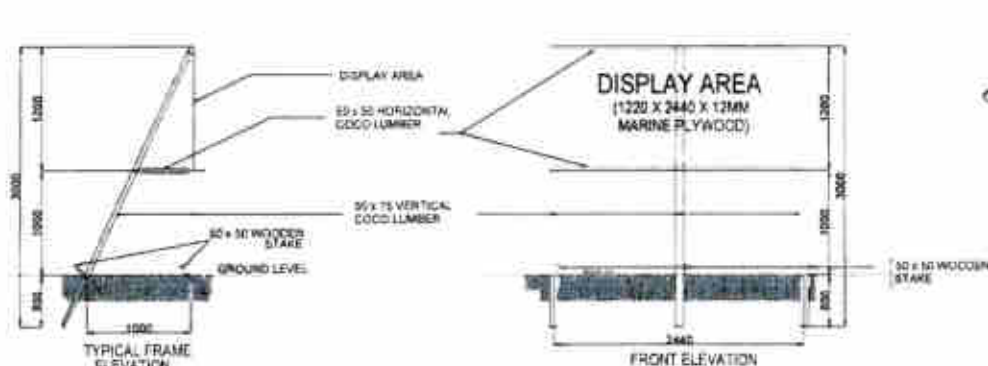
Project Details:

Project Date			Project Status				Remarks
Duration	Starts	Target Date	Percentage of Completion	As of (Date)	Cost Incurred to Date	Date Completed	

For Persons or companies about this project, please contact the Regional Office or Office which has work jurisdiction on this project.

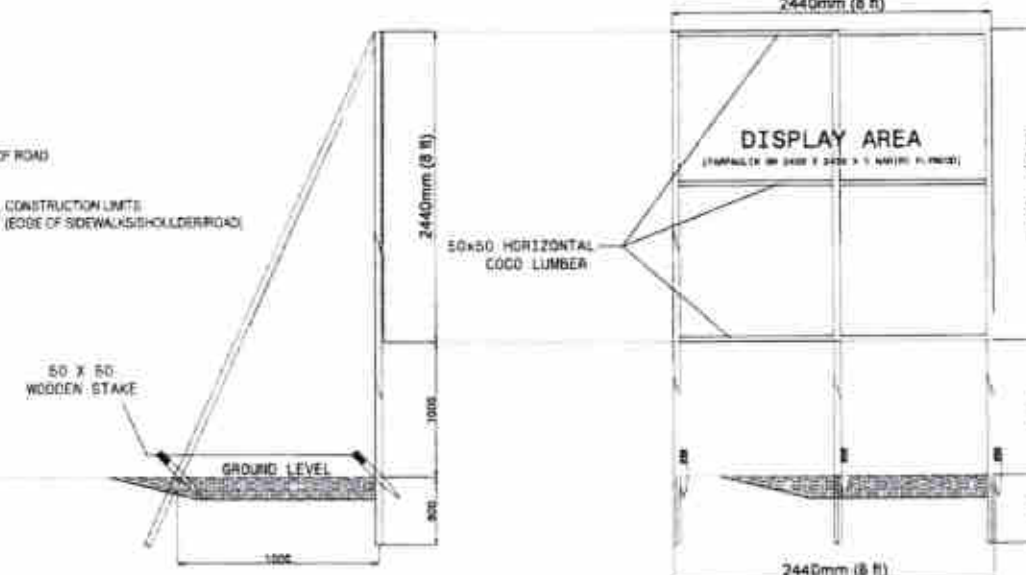
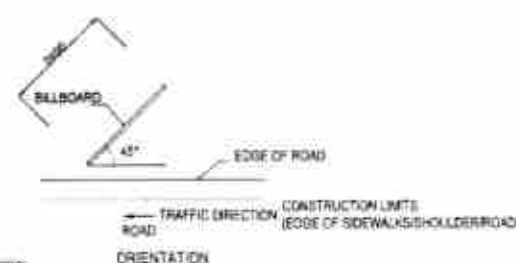
COA Regional Office No./Cluster:
Address:
Contact No. _____ or Text COA Officer's Desk at (02) 5-588-100?

WHITE BACKGROUND
BLACK TEXT



BILLBOARD FRAME

(NOT TO SCALE, ALL DIMENSIONS ARE IN MILLIMETERS)



TYPICAL FRAME ELEVATION

FRONT ELEVATION

STANDARD PROJECT BILLBOARD



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PROJECT NAME AND LOCATION
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TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS, LACANG,
NORTHERN SAMAR

SHEET CONTENTS
STANDARD PROJECT BILLBOARD

DRAFTED
LUCITA AND MARIE D. ESIDERA
PREPARED
TARA FRANCIS DIME G. PERFECTO
PROJECT ENGINEER

CHECKED
RYAN H. GALLANO
NUMBER 1 ASSISTANT CHIEF
PLANNING SECTION

SUBMITTED
TERESA S. BENCINCO
CHIEF PLANNING SECTION

RECOMMENDED
FRANCIS Y. TARALA
DISTRICT ENGINEER

APPROVED
ATTY. ARTHUR ERIC L. BASONG, CE
DISTRICT ENGINEER

SHEET NO.
4
SHEET NO.
30

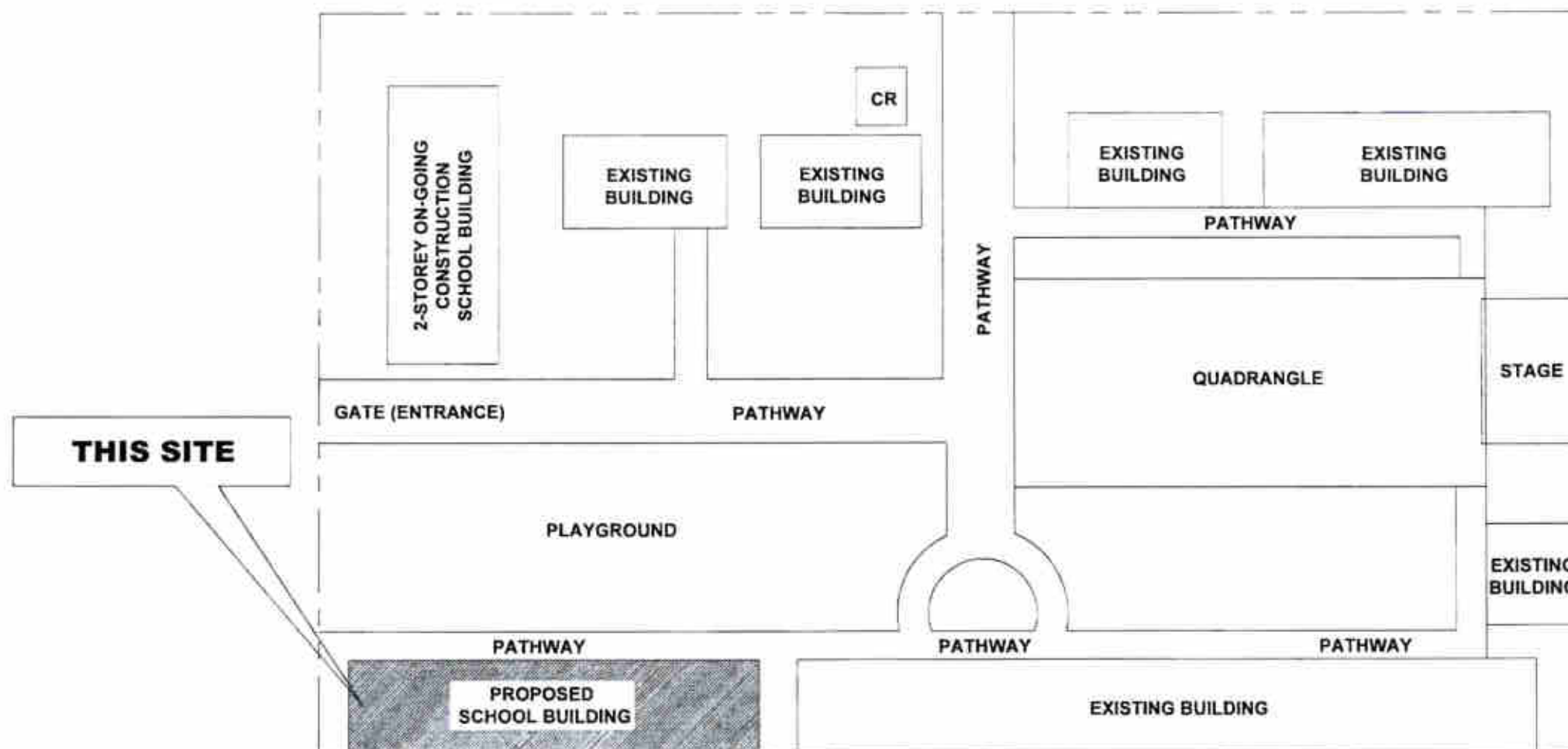
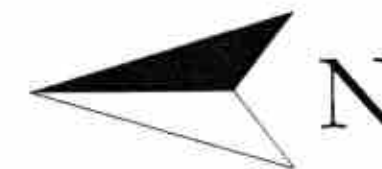
20 MAY 2025

21 MAY 2025

21 MAY 2025

22 MAY 2025

22 MAY 2025



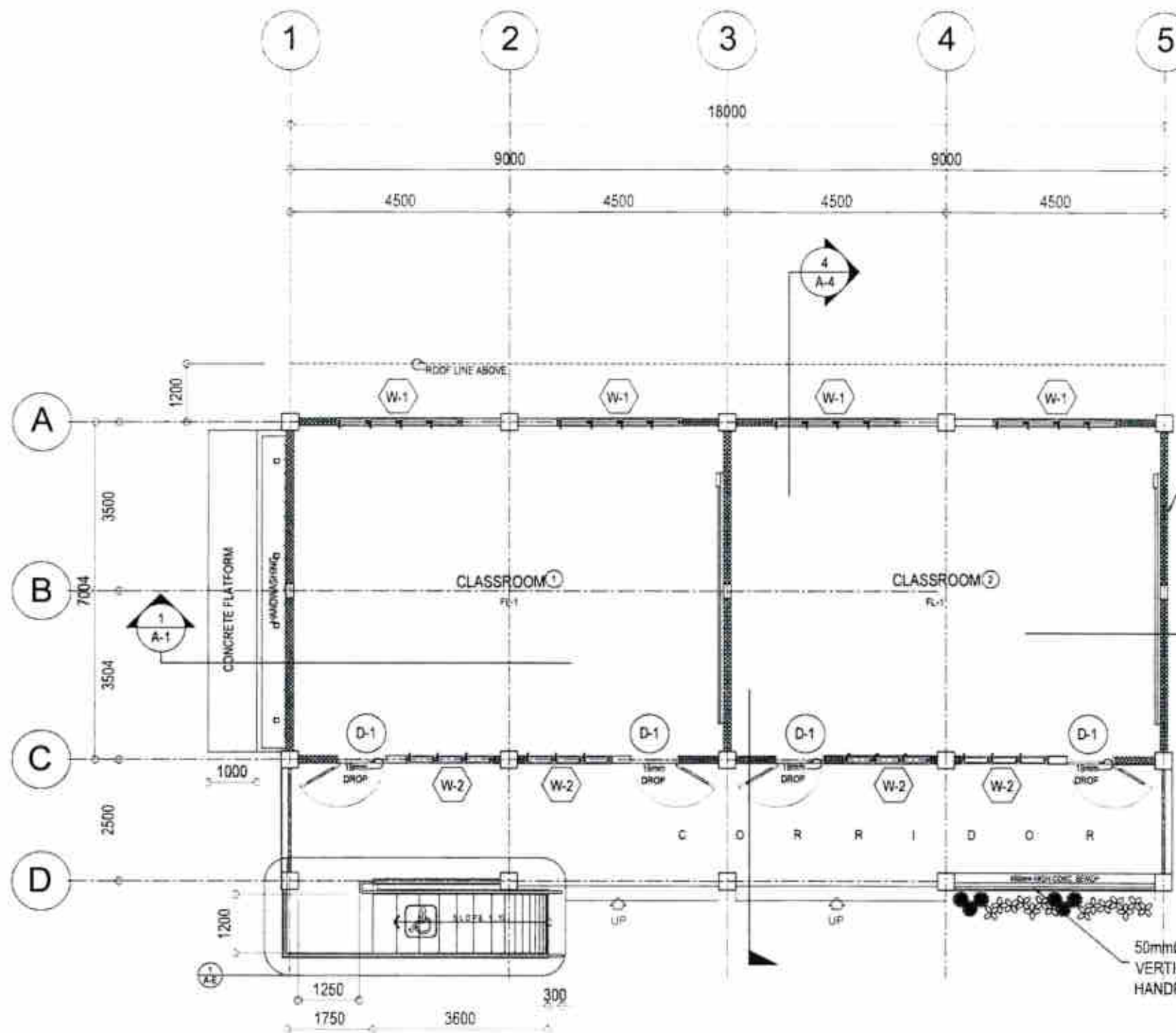
SITE DEVELOPMENT PLAN
N T S



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
NORTHERN SAMAR 2ND DISTRICT ENGINEERING OFFICE
BRD1, BURABUO, LADANG, NORTHERN SAMAR, REGION VII

PROJECT NAME AND LOCATION	SHEET CONTENTS	DRAFTED	CHECKED	SUBMITTED	RECOMMENDED	APPROVED	SET NO.	SHEET NO.
CONSTRUCTION OF ONE (1) STOREY, TWO (2) CLASSROOM SCHOOL BUILDING IN OLERAS ELEMENTARY SCHOOL, BARANGAY OLERAS, LADANG, NORTHERN SAMAR	STANDARD PROJECT BILLBOARD	LUCITAWAY MARIE D. ENIDERA ARCHITECT PREPARED BY TARA FRANCIS DIANE G. PERFECTO ARCHITECT DATE: 20 MAY 2025	RYAN Y. GALLANO ENGINEER - ASSISTANT CHIEF PLANNING DESIGN SECTION DATE: 21 MAY 2025	FIOR ALABUNCIADO CHIEF PLANNING DESIGN SECTION DATE: 21 MAY 2025	FRANKIE Y. TARA DISTRICT ENGINEER DATE: 22 MAY 2025	ATTY. ARTHUR ERIC C. SABONIS, CE DISTRICT ENGINEER DATE: 22 MAY 2025	A 5 16	5 30

20 MAY 2025 21 MAY 2025 21 MAY 2025 22 MAY 2025 22 MAY 2025



150mm THK. CHB WALL WITH PLAIN CEMENT PLASTER (PAINT FINISH)

SCHEDULE OF FLOOR FINISHES:

MARK	DESCRIPTION
FL1	NON-SKID PLAIN CEMENT FINISH
FL2	NON-SKID PLAIN CEMENT FINISH W/ 6MM GROOVE @ EVERY 100MM C.C.
WALL FINISH	
WF1	PLAIN CEMENT PLASTERED PAINTED FINISH

50mmØ STAINLESS STEEL
VERTICAL & HORIZONTAL PIPE
HANDRAIL

1 FLOOR PLAN
A-6 SCALE 1:100 M



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TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS,
LAOANG, NORTHERN SAMAR

SHEET CONTENTS
FLOOR PLAN
SCHEDULE OF FLOOR FINISHES

DRAFTED
LUCITA JIMENEZ D. ESIDERA
ARCHITECT
PREPARED
TARA FRANCIS DANE G. PERFECTO
ARCHITECT
DATE
20 MAY 2025

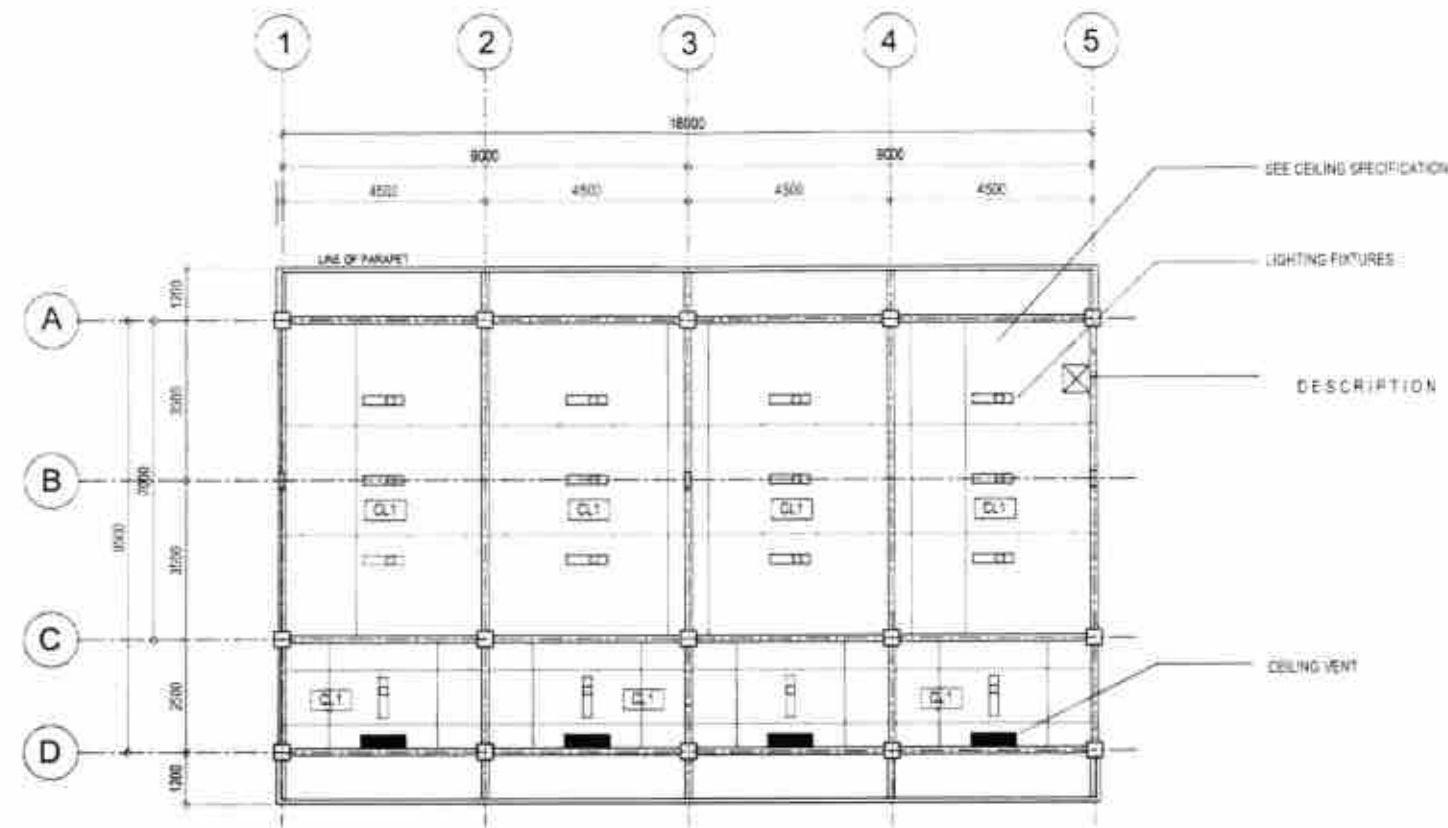
CHECKED
RYAN M. GALLANO
ENGINEER'S ASSISTANT (Civil)
DATE
21 MAY 2025

SUBMITTED
FRANCISCO G. GARCIA
ENGINEER
DATE
21 MAY 2025

RECOMMENDED
FRANCISCO G. GARCIA
ENGINEER
DATE
22 MAY 2025

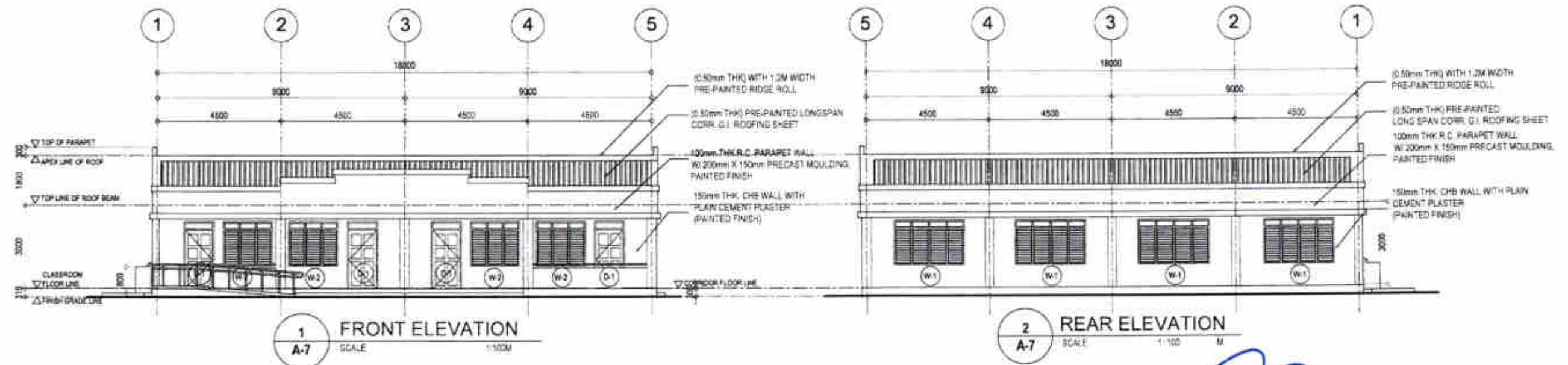
APPROVED
ATTY. ARTHUR ERIC I. SABONO, CE
OC DISTRICT ENGINEER
DATE
22 MAY 2025

SHEET NO.
A
SHEET NO.
30



SCHEDULE OF CEILING FINISHES:

MARK	DESCRIPTION
CL1	4.5mm THK FIBER CEMENT BOARD CEILING (PAINTED) IN 12mmX38mmX5mm XG 8mm THK METAL FURRING CHANNEL FRAMING @ EVERY 400MM C.C.



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NORTHERN SAMAR 2ND
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BRD+ BURRIGUO, LADANG, NORTHERN SAMAR, REGION VII

PROJECT NAME AND LOCATION:
CONSTRUCTION OF ONE (1) STOREY,
TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS, LADANG,
NORTHERN SAMAR

SHEET CONTENTS:
REFLECTED CEILING PLAN
SCHEDULE OF CEILING FINISHES
FRONT ELEVATION
REAR ELEVATION

DRAFTED:
LUCITA AMY MARIE D. ESIDERA
ARCHITECT
PREPARED:
TARA FRANCIS DIANE G. PERFECTO
ARCHITECT &
PLANNING & DESIGN SECTION

CHECKED:
RYAN H. GALLANO
ENGINEER & ASSISTANT CHIEF
PLANNING & DESIGN SECTION

SUBMITTED:
EDMAN A. BARRERA
CHIEF, PLANNING & DESIGN SECTION

RECOMMENDED:
FRANCISCO Y. TALAÑA
DC DISTRICT ENGINEER

APPROVED:
APTY. ANTONIO ERIC S. BARONG, CE
DC DISTRICT ENGINEER

SET NO. 7
SHEET NO. 30

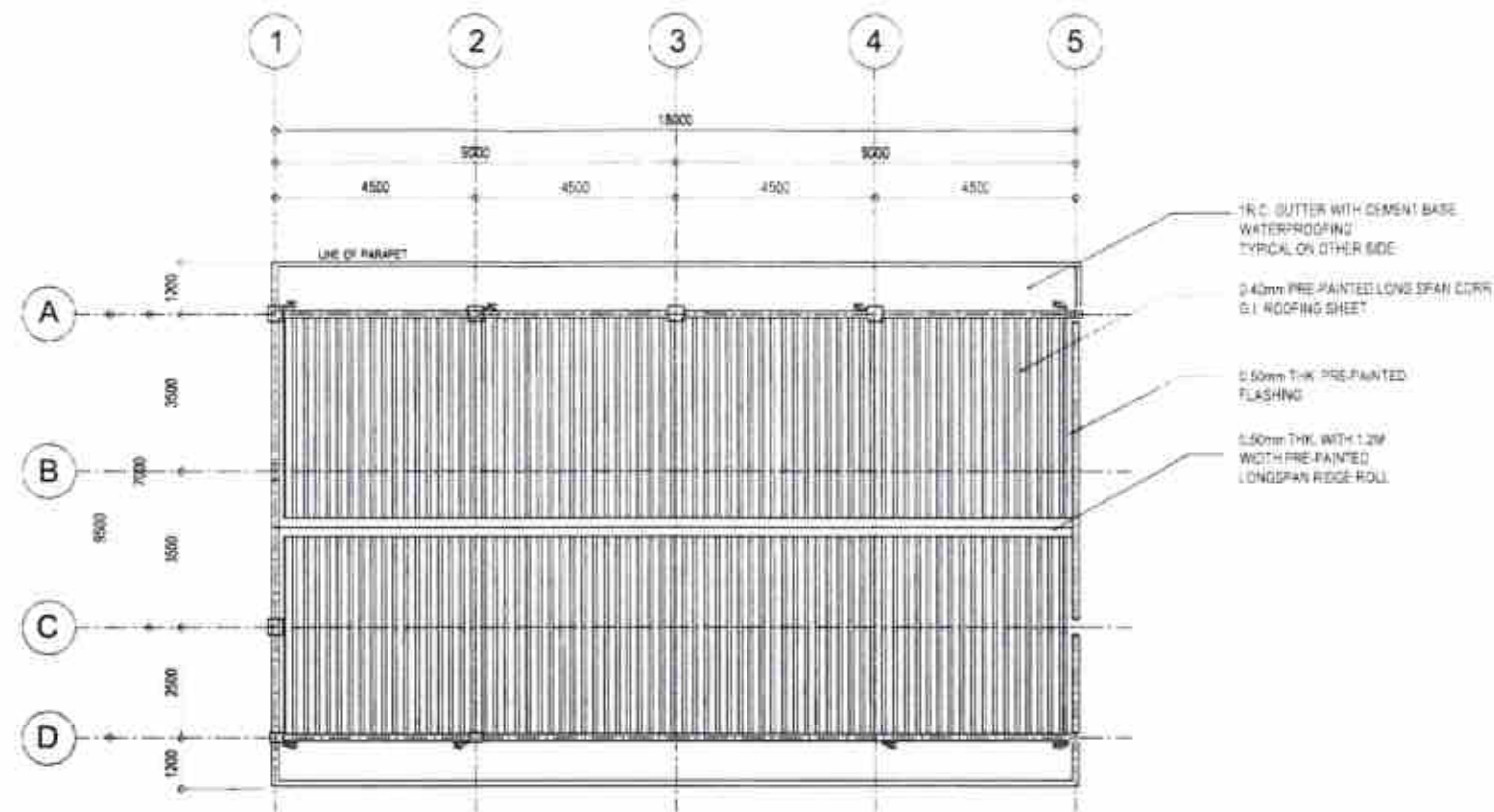
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21 MAY 2025

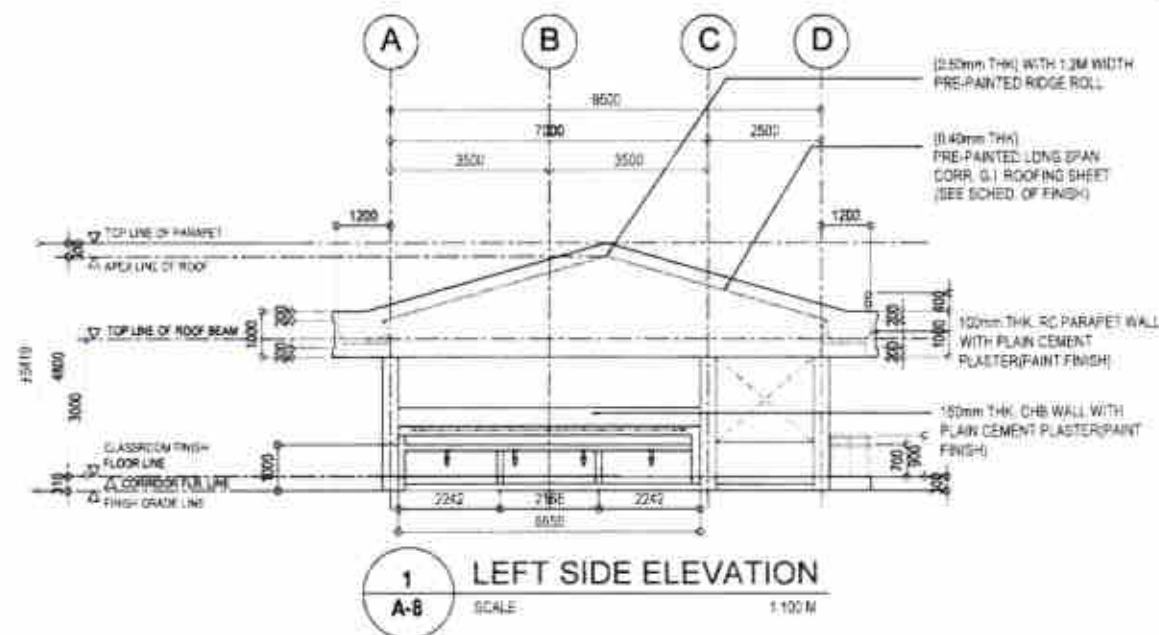
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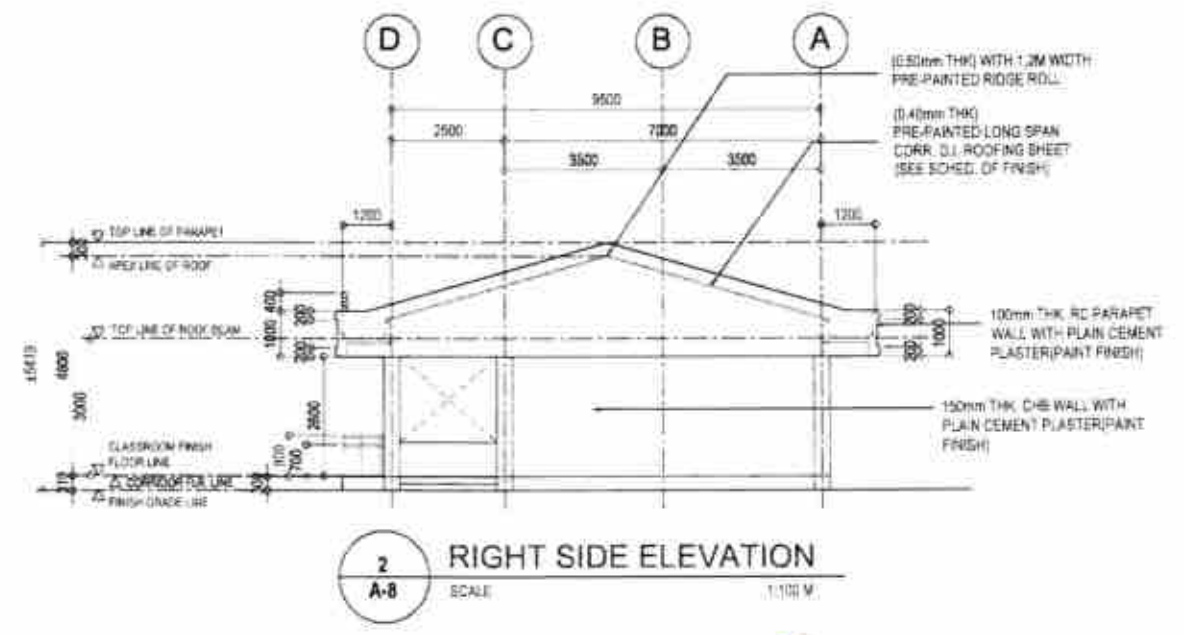
22 MAY 2025



3
A-8
ROOF PLAN
SCALE 1:100M



1
A-8
LEFT SIDE ELEVATION
SCALE 1:100 M



2
A-8
RIGHT SIDE ELEVATION
SCALE 1:100 M



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IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS, LADANG,
NORTHERN SAMAR

SHEET CONTENTS:
ROOF PLAN
LEFT SIDE ELEVATION
RIGHT SIDE ELEVATION

DRAFTED:
LUCITA MARY MARIE D. ESIDERA
ARCHITECT
PREPARED:
TANIA FRANCIS DIANE G. PERFECTO
ARCHITECT &
PLANNING & DESIGN SECTION

CHECKED:
RYAN M. GALLANO
ENGINEER & ARCHITECT
PLANNING & DESIGN SECTION

SUBMITTED:
FLORENCE MARINADO
CHIEF PLANNING & DESIGN SECTION

RECOMMENDED:
RANDOLPH V. TANALA
DISTRICT ENGINEER

APPROVED:
ATTY. ARTHUR ERIC L. SABONG, CE
DISTRICT ENGINEER

SET NO. 1
SHEET NO. 20

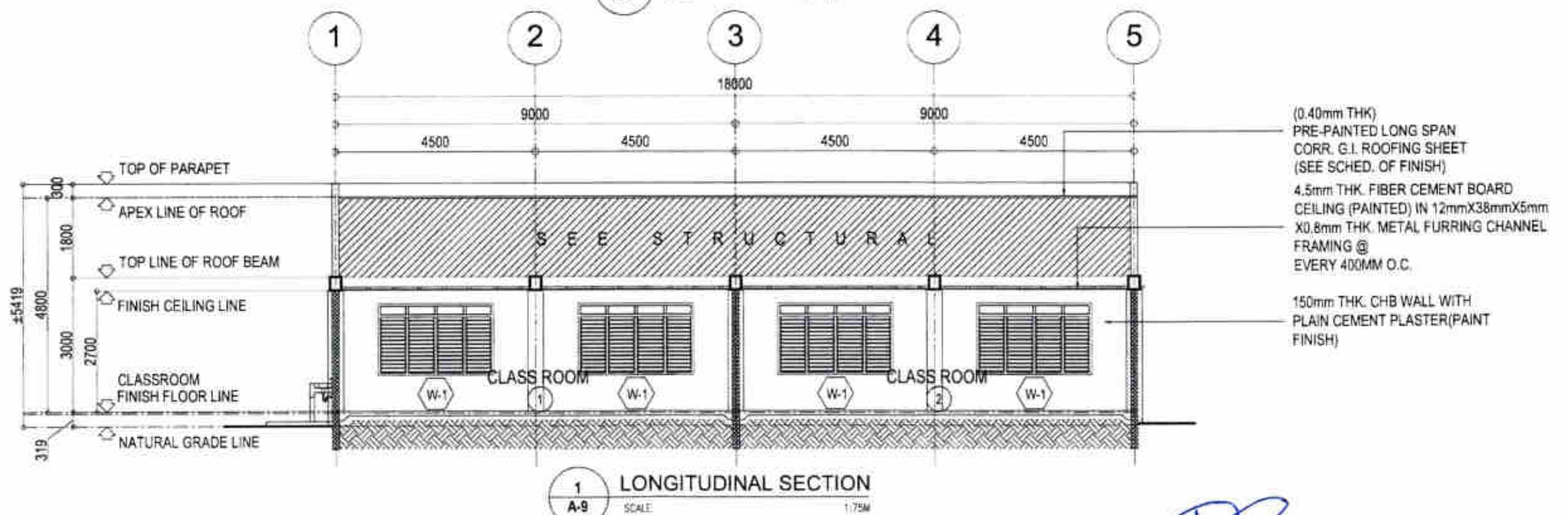
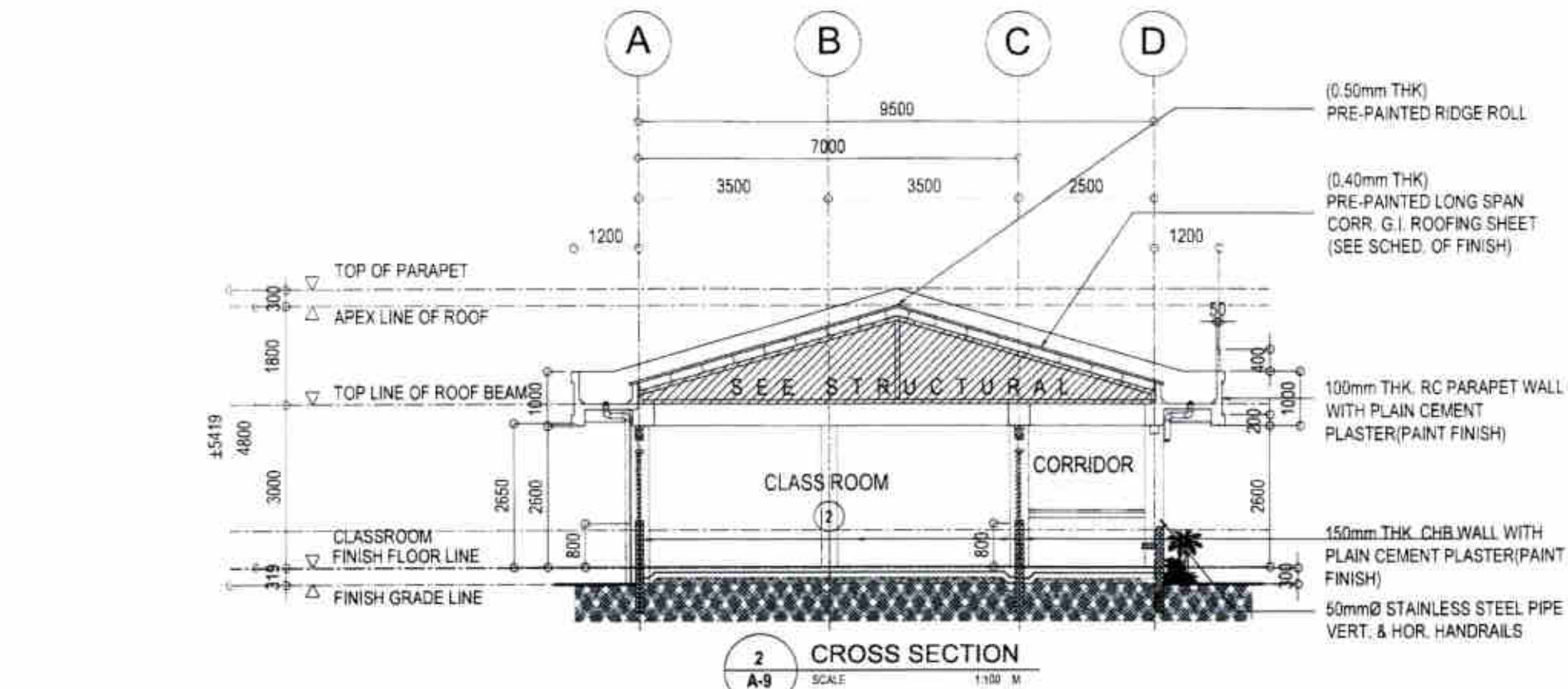
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DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
NORTHERN SAMAR 2ND
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BRGY. BURAUJO, LAGANG, NORTHERN SAMAR REGION VIII

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TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS,
LAGANG, NORTHERN SAMAR

SHEET CONTENTS
CROSS SECTIONS
LONGITUDINAL SECTION

DRAFTED
LUCIA XIMY MARIE G. ESIDERA
ARCHITECT I
PREPARED
TARA FRANCIS DINE G. PERFECTO
ARCHITECT I
DATE
REVISED & RE-DESIGNED

CHECKED
RYAN N. GONZALEZ
ENGINEER & ASSISTANT CHIEF
PLANNING & DESIGN SECTION
DATE

SUBMITTED
FLORES R. MANCICADO
CHIEF PLANNING & DESIGN SECTION
DATE

RECOMMENDED
FRANCISCO Y. TARALA
DISTRICT ENGINEER
DATE

APPROVED
ATTY. ARTHUR MARIC L. SAMPONG, CE
LOCAL GOVERNMENT ENGINEER
DATE

SET NO. 1
SHEET NO. 30

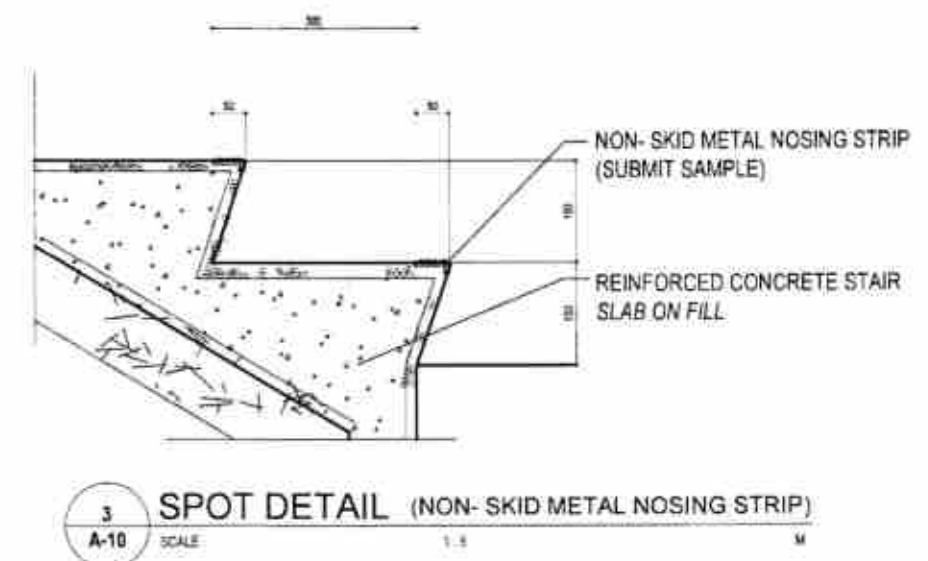
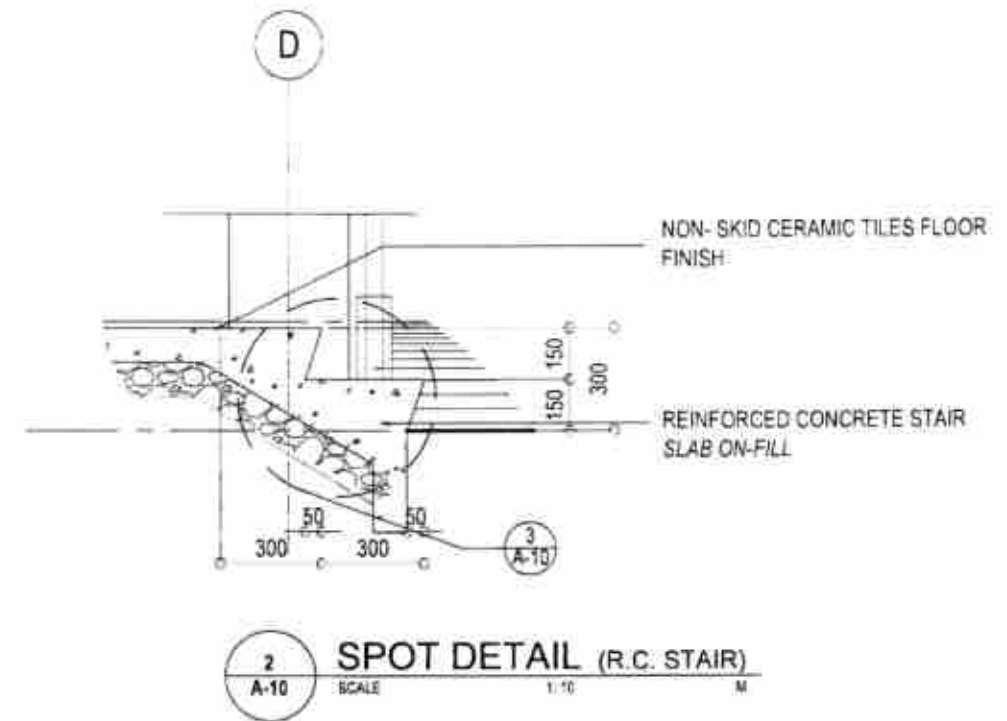
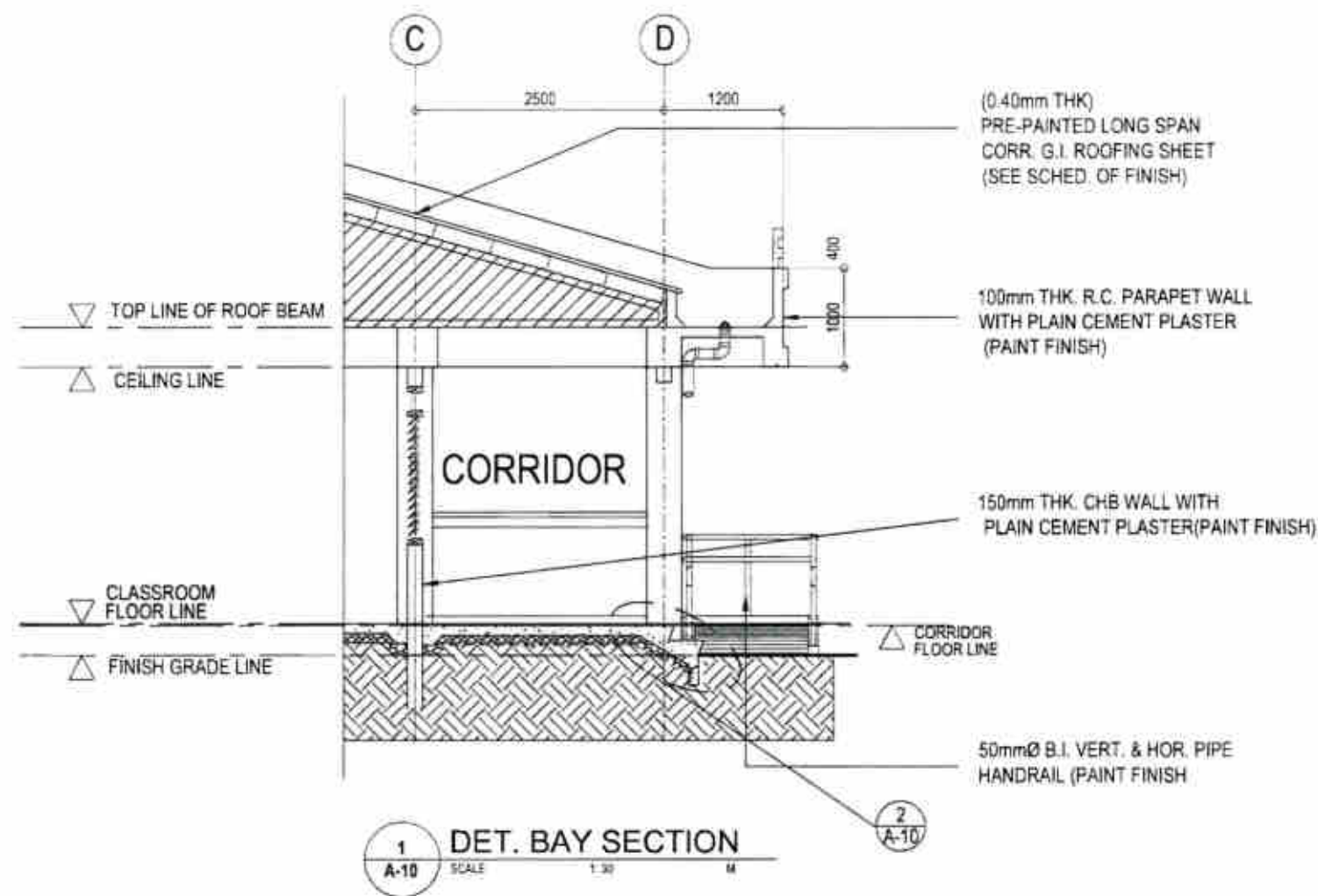
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IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS,
LADANG, NORTHERN SAMAR

SHEET CONTENTS
DETAIL BAY SECTIONS
SPOT DETAILS

DRAFTED
LUCITA V. MARIE D. ESIDERA
ARCHITECT
DESIGNED
YARA FRANCIS DANE G. PERFECTO
ARCHITECT &
PLANNING & DESIGN SECTION

CHECKED
RYAN H. DELANO
ARCHITECT & DESIGNER
PLANNING & DESIGN SECTION

SUBMITTED
JHONAS C. BARRIOADO
CHIEF PLANNING & DESIGN SECTION

RECOMMENDED
FRANCIS Y. TAYALA
DISTRICT ENGINEER

APPROVED
ATTY. ARTHUR ERIC L. SABONG, CE
DISTRICT ENGINEER

SET NO. 10
SHEET NO. 30

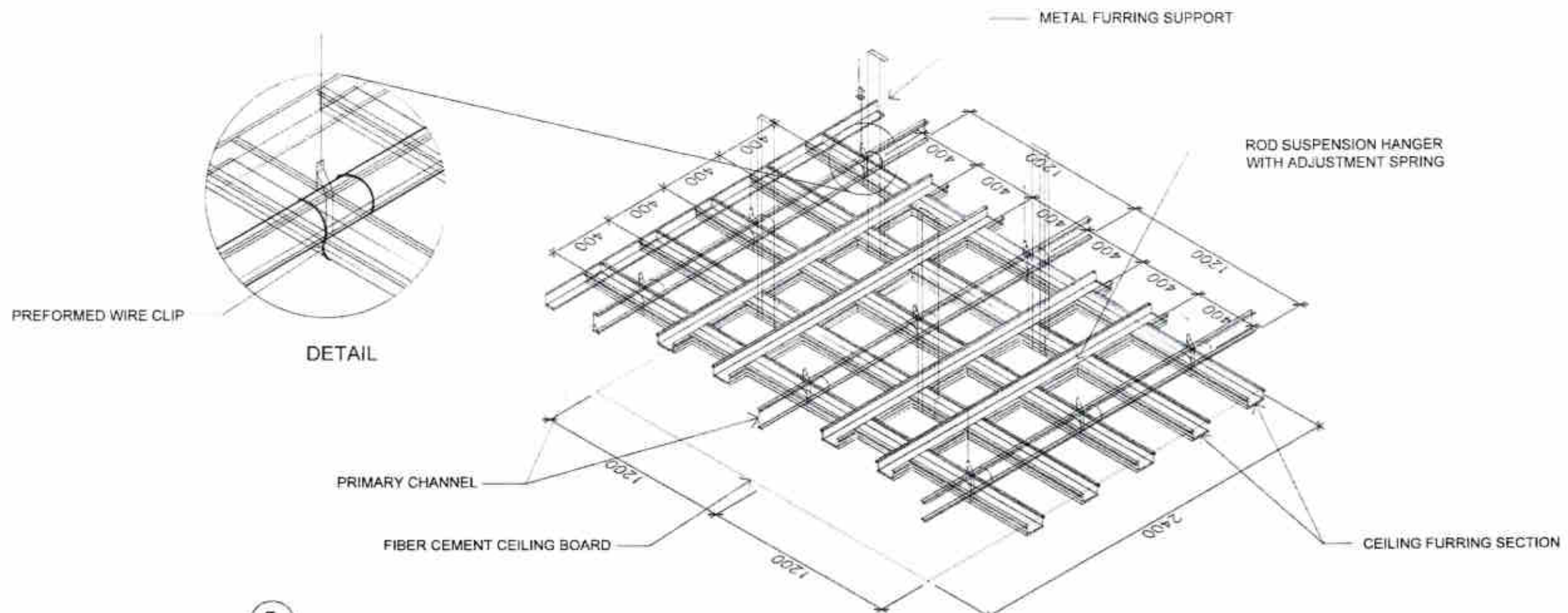
20 MAY 2025

21 MAY 2025

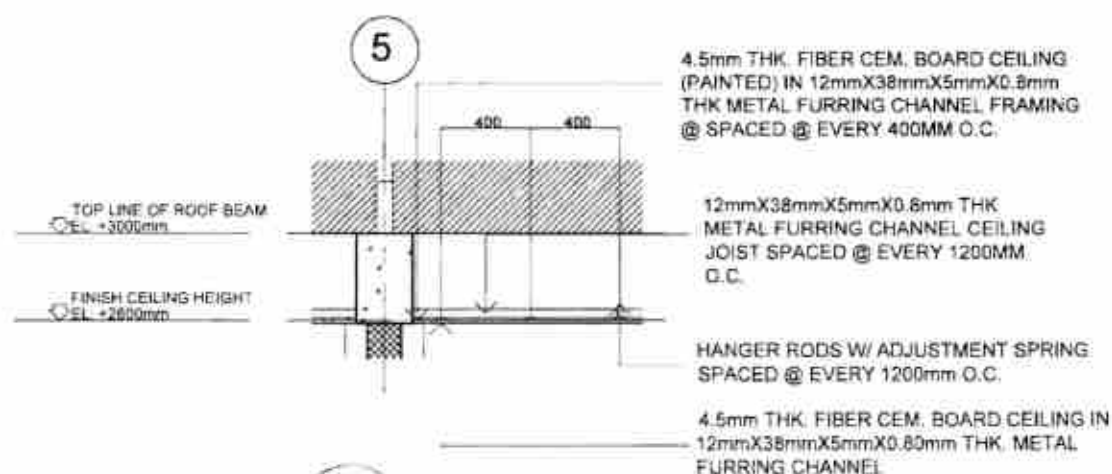
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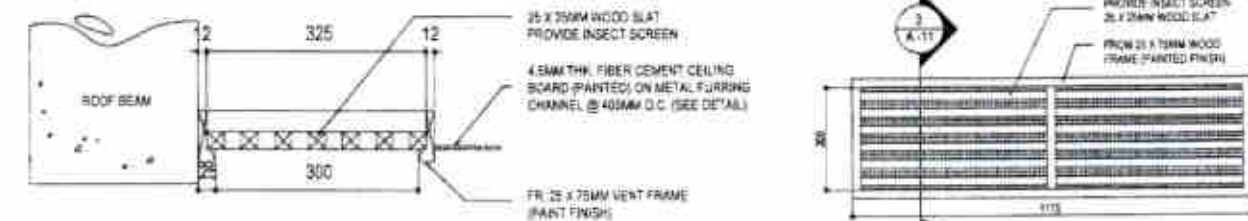
28 MAY 2025



1 ISOMETRIC (CEILING DETAIL)
A-11 SCALE NTS



2 DETAIL - 1
A-11 SCALE 1:20 M



3 VENT DETAILS
A-11 SCALE 1:10 M



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
NORTHERN SAMAR 2ND
DISTRICT ENGINEERING OFFICE
BRGT. BUNABUD, LADANG, NORTHERN SAMAR, REGION VIII

PROJECT NAME AND LOCATION
CONSTRUCTION OF ONE (1) STOREY,
TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS,
LADANG, NORTHERN SAMAR

SHEET CONTENTS
PERSPECTIVE CEILING
CEILING SECTION
VENT DETAIL

DRAFTED
LUCITA MARIE D. ESIDERA
ARCHITECT
PREPARED
TARA FRANCIS DANE G. PERFECTO
ARCHITECT'S
WORK & DESIGN SECTION

CHECKED
RYAN H. GALLARDO
ENGINEER'S ASSISTANT (CIVIL)
PLANNING & DESIGN SECTION

SUBMITTED
FRANCIS A. MANCADO
ENGINEER'S ASSISTANT (CIVIL)
PLANNING & DESIGN SECTION

RECOMMENDED
FRANCIS A. MANCADO
ENGINEER'S ASSISTANT (CIVIL)
PLANNING & DESIGN SECTION

APPROVED
ATTY. ARTHUR ERIC L. SABIDO, CE
DISTRICT ENGINEER

SET NO. 11
SHEET NO. 30

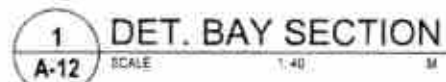
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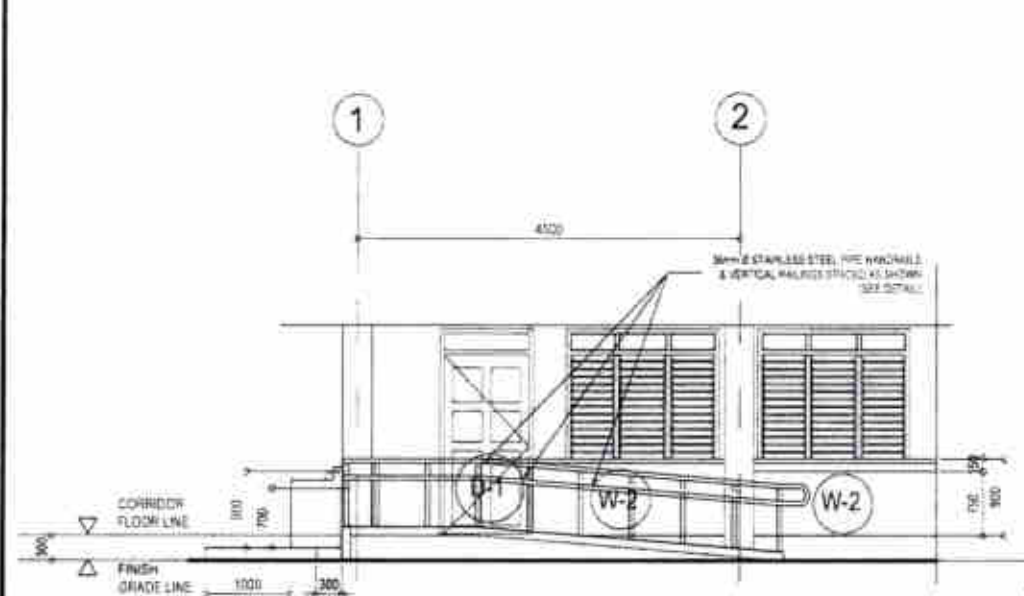
21 MAY 2025

21 MAY 2025

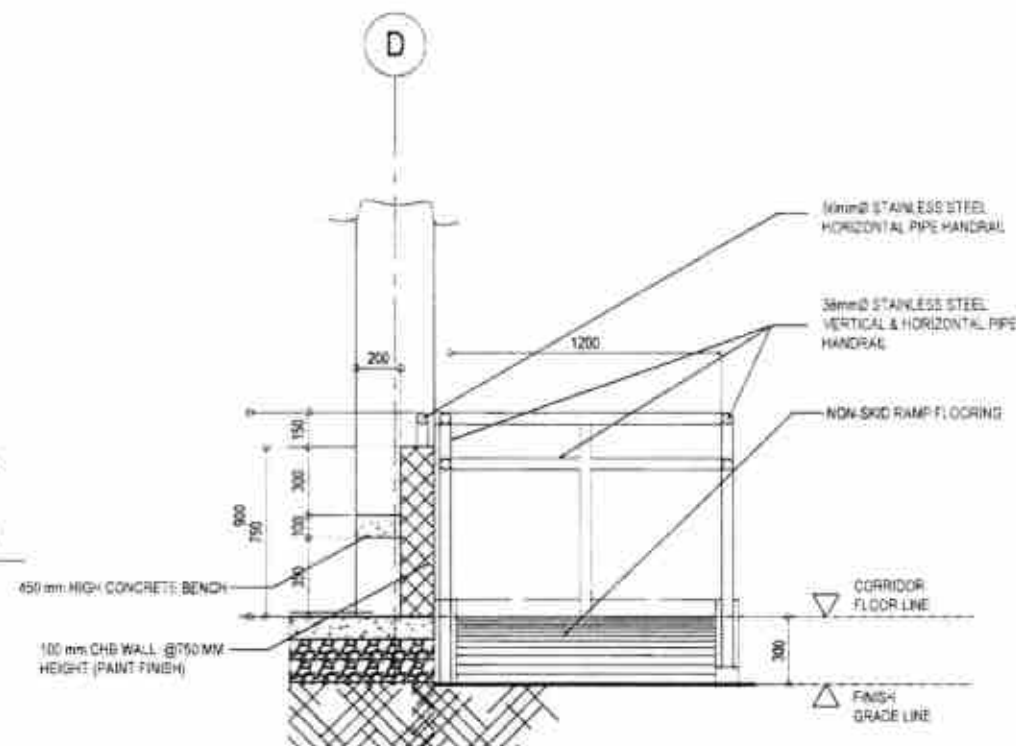
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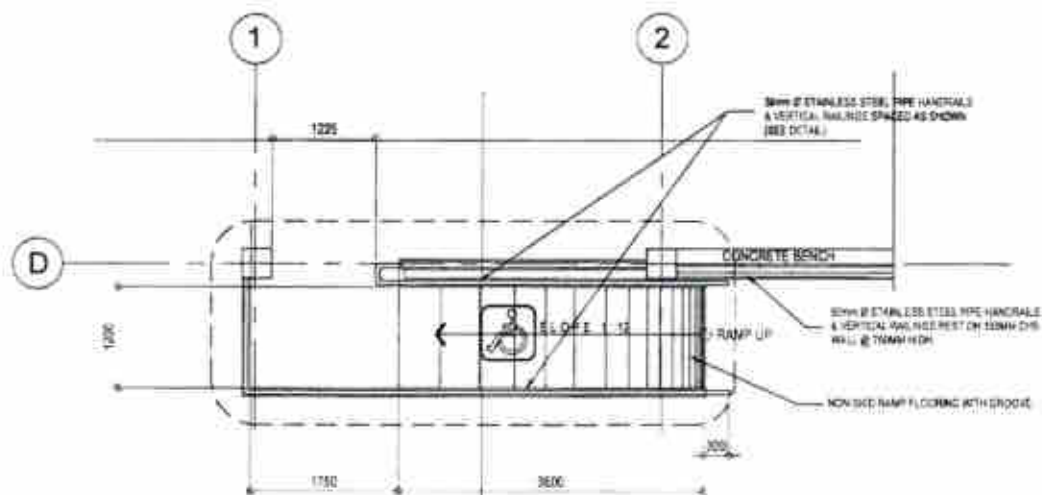




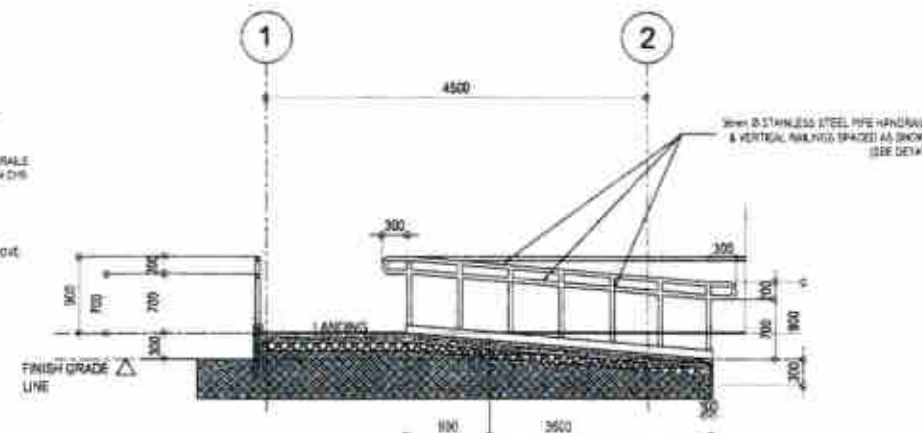
2 DET. ELEVATION of RAMP
A-13 SCALE 1:40 M



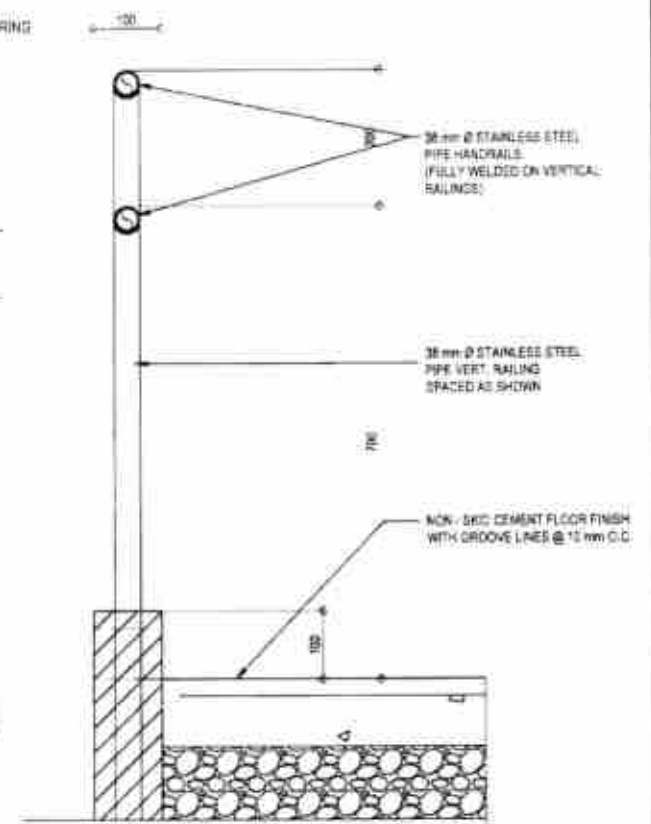
4 DETAIL SECTION (CONC. BENCH & RAMP)
A-13 SCALE 1:15 M



1 DET. PLAN of RAMP
A-13 SCALE 1:40 M



3 DET. LONGITUDINAL SECTION of RAMP
A-13 SCALE 1:40 M



5 SPOT DETAIL (HANDRAIL)
A-13 SCALE 1:5 M

PROJECT NAME AND LOCATION	SHEET CONTENTS	DRAFTED	CHECKED	SUBMITTED	RECOMMENDED	APPROVED	SHEET NO.	SHEET NO.
Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS NORTHERN SAMAR 2ND DISTRICT ENGINEERING OFFICE BICAY, BURLADO, LAOANG, NORTHERN SAMAR, REGION VII	CONSTRUCTION OF ONE (1) STOREY, TWO (2) CLASSROOM SCHOOL BUILDING IN OLERAS ELEMENTARY SCHOOL, BARANGAY OLERAS, LAOANG, NORTHERN SAMAR	DETAIL PLAN OF RAMP DETAIL ELEVATION OF RAMP DETAIL LONGITUDINAL SECTION DETAIL SECTION (CONC. BENCH & RAMP) SPOT DETAIL (HANDRAIL)	LUCITA M. MAME D. ESIDERA ARCHITECT PREPARED BY TAMK FRANCIS OMNE G. PERFECTO ARCHITECT & DESIGNER	RYANN GALLARDO ENGINEER & ASSISTANT CHIEF PLANNING & DESIGN SECTION	HORRACE SANCRIADO CHIEF PLANNING & DESIGN SECTION	FRANCISCO Y. TASA DISTRICT ENGINEER ATTY. ARTHUR ERIC L. SAMPANG, CE DISTRICT ENGINEER	13	30

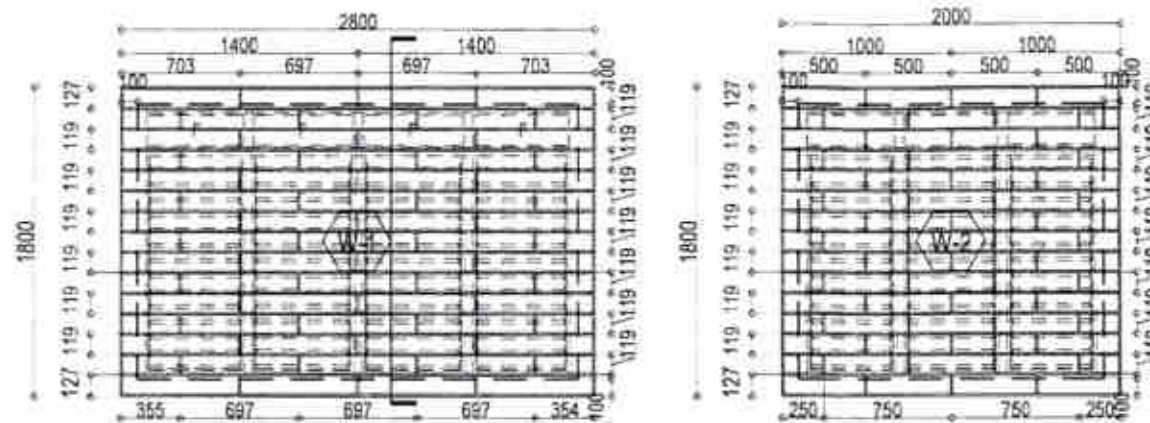
20 MAY 2025

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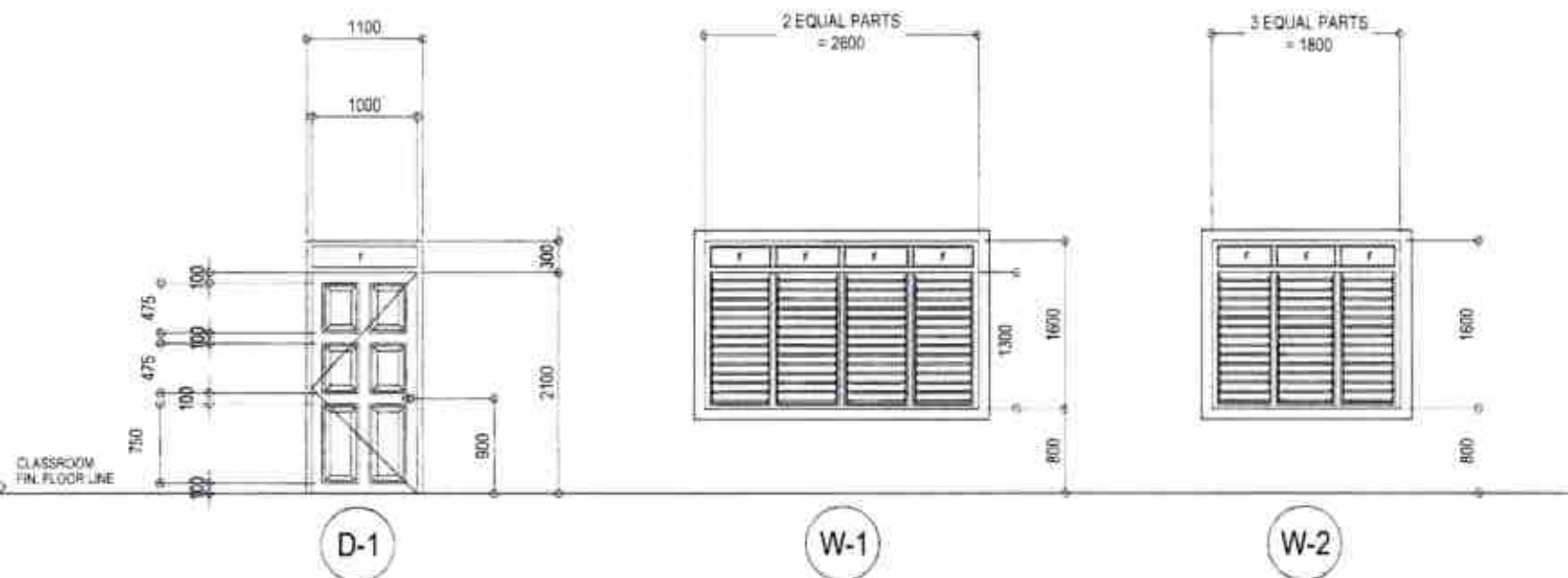
21 MAY 2025

22 MAY 2025

22 MAY 2025



2 WINDOW GRILLES DETAIL
A-14 SCALE 1:20 M



HD & TERMITE-TREATED PANEL DOOR
TYPE HINGED DOOR & FIXED GLASS
TRANSOM IN 50mmx150mm WOOD
JAMBFRAME AND LEVER-TYPE KNOB

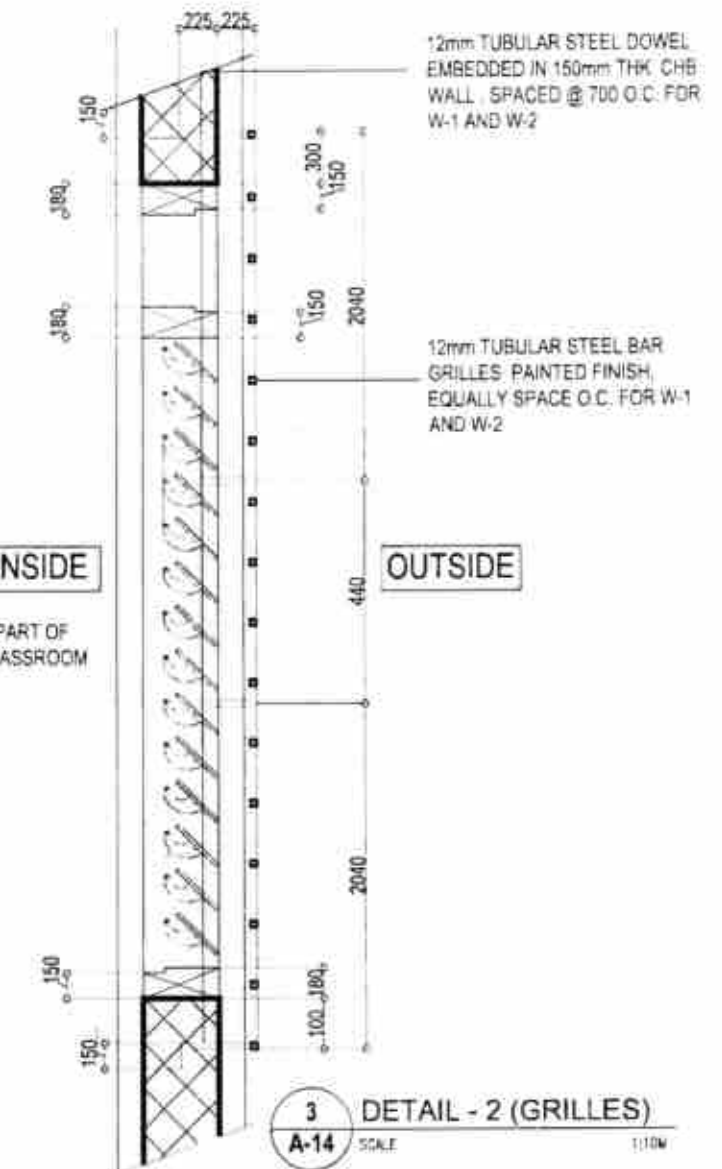
@ CORRIDOR
4 SETS

STEEL JAMB JALOUSIE WINDOW W/ CLEAR
GLASS BLADES AND WITH FIXED CLEAR
GLASS TRANSOM

@ CLASSROOMS (REAR ELEV.)
4 SETS

STEEL JAMB JALOUSIE WINDOW W/ CLEAR
GLASS BLADES AND WITH FIXED CLEAR
GLASS TRANSOM

@ CLASSROOMS (FRONT ELEV.)
4 SETS



3 DETAIL - 2 (GRILLES)
A-14 SCALE 1:10M

1 SCHEDULE OF DOORS & WINDOWS
A-14 SCALE 1:50 M



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
NORTHERN SAMAR 2ND
DISTRICT ENGINEERING OFFICE
BRGY. BURANO, LADANG, NORTHERN SAMAR, REGION VII

PROJECT NAME AND LOCATION
CONSTRUCTION OF ONE (1) STOREY,
TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS, LADANG,
NORTHERN SAMAR

SHEET CONTENTS
SCHEDULE OF DOORS & WINDOWS
WINDOW GRILLES DETAIL

DRAWN BY
LUCITA AMY MARIE D. ESIDERA
ARCHITECT I
CHECKED BY
TARA FRANCIS DANE G. PERFECTO
ARCHITECT II
DATE: 20 MAY 2025

DESIGNED BY
RYAN H. GALLARDO
ENGINEER & ASSISTANT ENGR
PLANNING & DESIGN SECTION
DATE: 21 MAY 2025

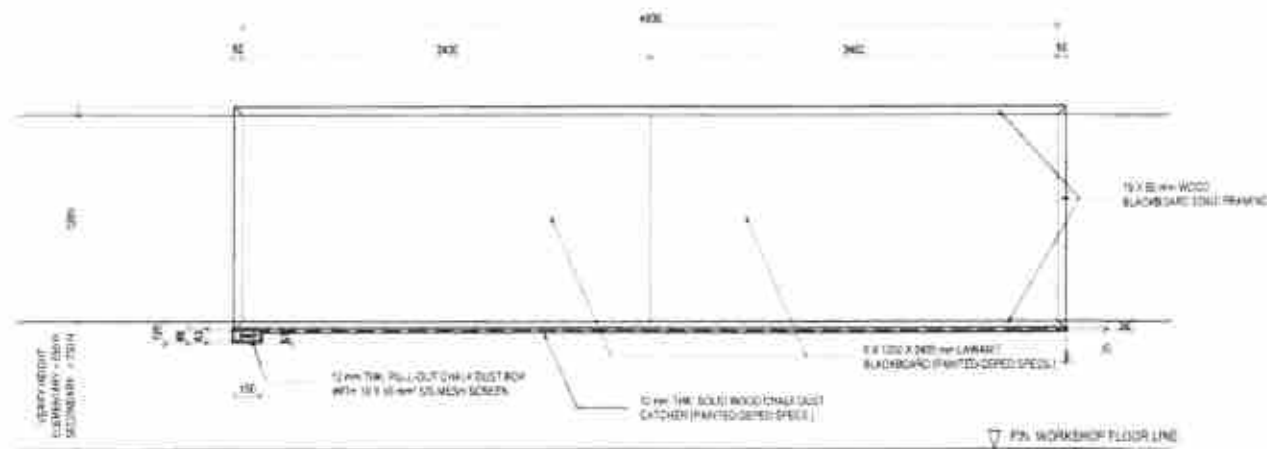
SUBMITTED BY
JONAS M. ANGIADO
CHIEF, PLANNING & DESIGN SECTION
DATE: 21 MAY 2025

RECOMMENDED BY
FRANCISCO Y. TARALA
DISTRICT ENGINEER
DATE: 22 MAY 2025

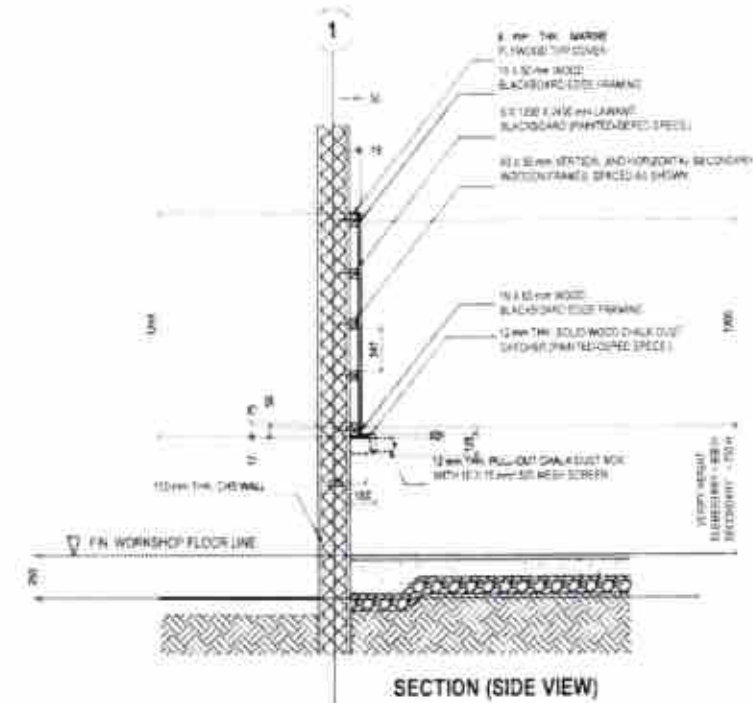
APPROVED BY
ATTY. ARTHUR ERIC L. SABONG, CE
PL. DISTRICT ENGINEER
DATE: 22 MAY 2025

SET NO. SHEET NO.
A 14
14 30

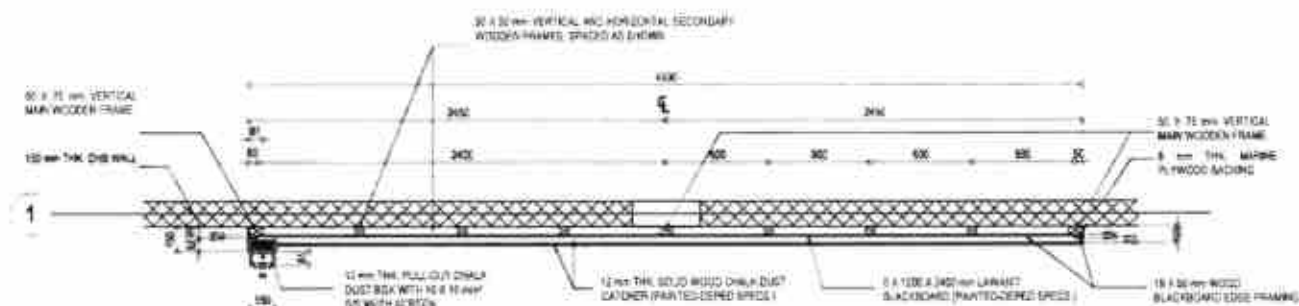
20 MAY 2025 21 MAY 2025 21 MAY 2025 22 MAY 2025 22 MAY 2025



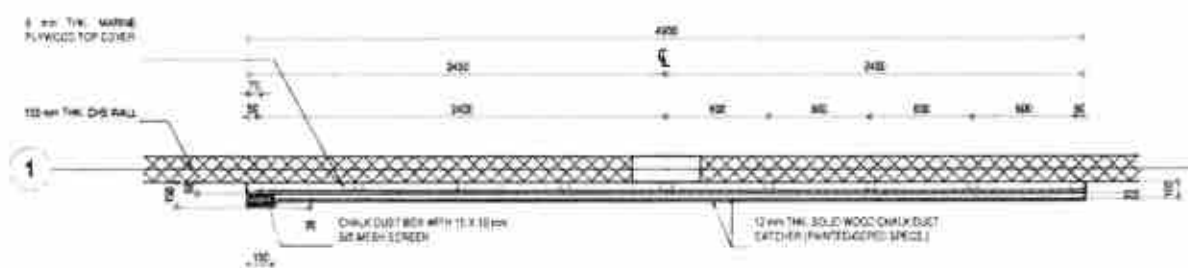
ELEVATION (FRONT VIEW)



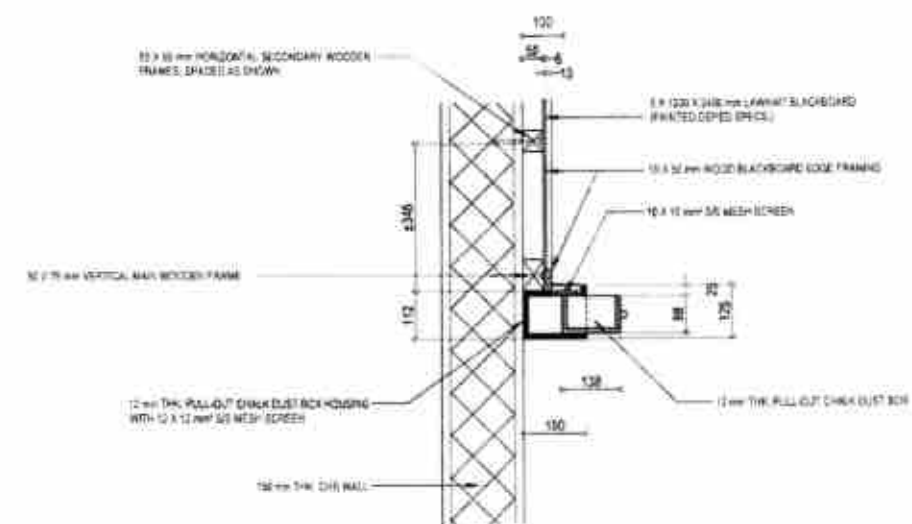
SECTION (SIDE VIEW)



PLAN (SECTIONAL VIEW)



PLAN (TOP VIEW)



DETAIL SECTION (CHALK DUST BOX)

1
A-15
SCALE 1:20 m



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
NORTHERN SAMAR 2ND
DISTRICT ENGINEERING OFFICE
BPOV, BURAUUD, LADANG, NORTHERN SAMAR, REGION VII

PROJECT NAME AND LOCATION:
CONSTRUCTION OF ONE (1) STOREY,
TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS,
LADANG, NORTHERN SAMAR

SHEET CONTENTS:
BLACKBOARD DETAIL

DRAFTED:
LUCITA RAY MARIE O. ESIDERA
ARCHITECT
PREPARED:
TARA FRANCIS DIANE G. PERFECTO
ARCHITECT
DATE: 20 MAY 2025

CHECKED:
RYAN H. GALLANO
ENGINEER'S ASSISTANT
DATE: 21 MAY 2025

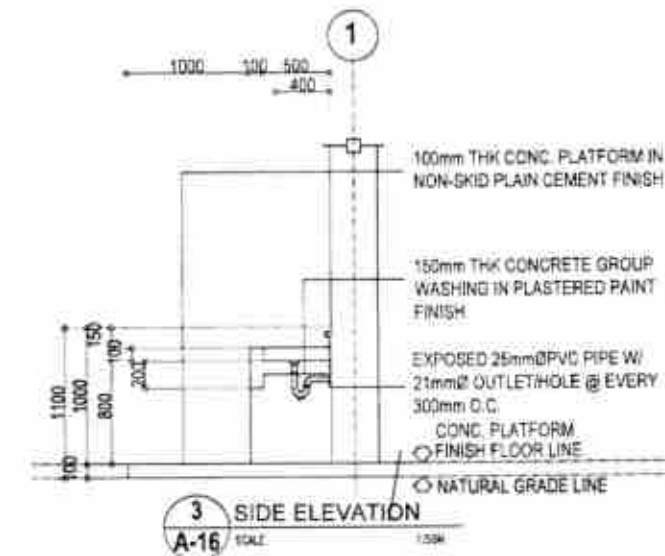
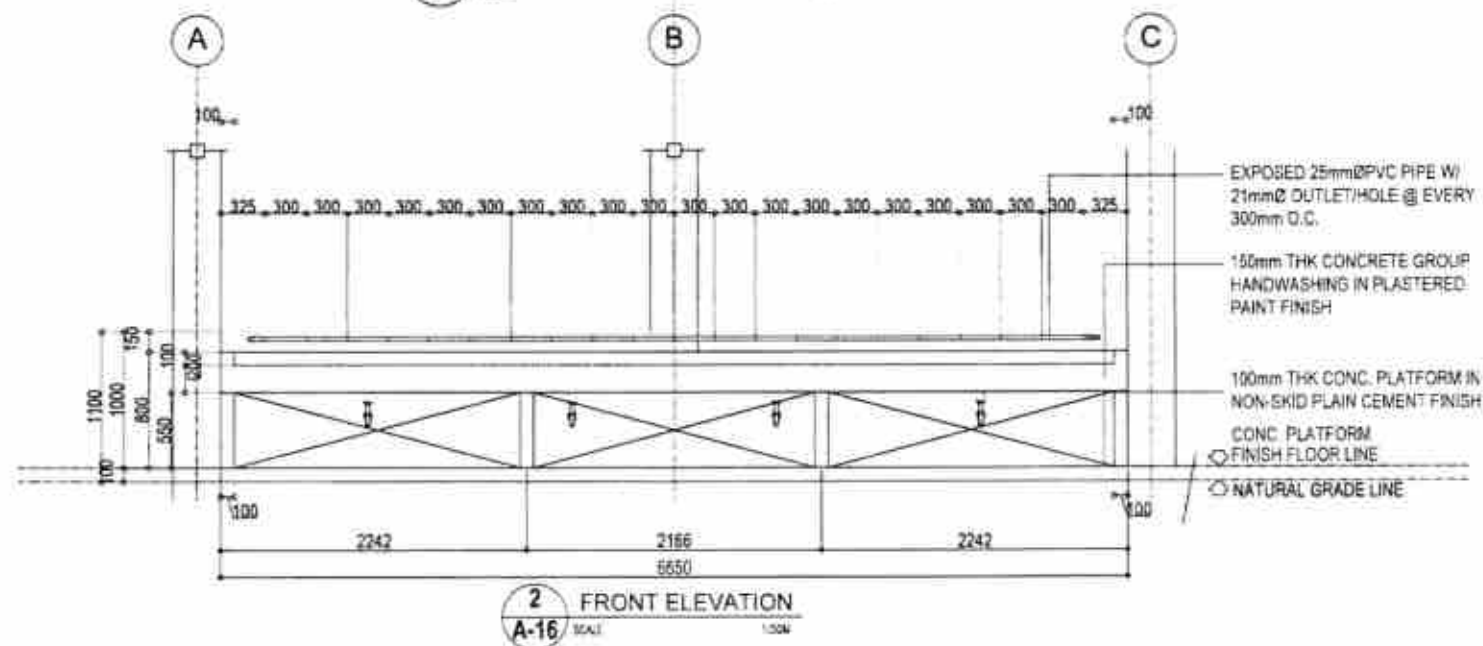
SUBMITTED:
DINA A. MANCIANO
DIST. PLANNING & DESIGN SECTION
DATE: 21 MAY 2025

RECOMMENDED:
FRANCIS J. TAMARA
DIST. ENGINEER
DATE: 22 MAY 2025

APPROVED:
ARTUR ERIC SABONG, CE
DIST. ENGINEER
DATE: 22 MAY 2025

SET NO. 15
SHEET NO. 30

20 MAY 2025 21 MAY 2025 21 MAY 2025 22 MAY 2025 22 MAY 2025



 Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS NORTHERN SAMAR 2ND DISTRICT ENGINEERING OFFICE BRGY. BURABUJ, LADANG, NORTHERN SAMAR, REGION VII	PROJECT NAME AND LOCATION	SHEET CONTENTS	DRAFTED	CHECKED	SUBMITTED	RECOMMENDED	APPROVED	SET NO.	SHEET NO.
	CONSTRUCTION OF ONE (1) STOREY, TWO (2) CLASSROOM SCHOOL BUILDING IN OLERAS ELEMENTARY SCHOOL, BARANGAY OLERAS, LADANG, NORTHERN SAMAR	HANDYWAY AREA DETAIL	LUCITA AMY MARIE D. ESIDERA (ARCHITECT) TANA FRANCIS DANE G. PERFECTO (ARCHITECT)	RYAN H. GALLARDO ENGINEER & ASSISTANT CHIEF PLANNING & DESIGN SECTION	FIONA A. BALBUENADO CHIEF PLANNING & DESIGN SECTION	FRANCISCO M. TANALA CHIEF PLANNING & DESIGN SECTION	ATTY. WERTHER ERIC L. SABIDO, CE CHIEF DESIGN ENGINEER	A 1E 1B	1E 30
			20 MAY 2025	21 MAY 2025	21 MAY 2025	22 MAY 2025	22 MAY 2025		

GENERAL CONSTRUCTION NOTES

GENERAL NOTES

1.0 STANDARDS AND REFERENCES

THE FOLLOWING SHALL GOVERN THE DESIGN, FABRICATION AND CONSTRUCTION OF THE PROJECT:
1.1 NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (NSCP) VOL. 1, SEVENTH EDITION

2.0 DESIGN CRITERIA

2.1 LOADING

A. DEAD LOAD	
CONCRETE	23.5k N/m ²
STEEL	15.0 kN/m ²
100mm THK. CHB WALL	2.75 kPa
100mm THK. CHB WALL	2.75 kPa
B. LIVE LOAD	
ROOF	1.90 kPa
CLASSROOMS	1.90 kPa
TOILETS	1.90 kPa
CORRIDORS ABOVE STAIRS	3.50 kPa
CORRIDORS ON GROUND	4.80 kPa

2.2 WIND LOAD

BUILDING CATEGORY: II (ESSENTIAL FACILITIES)
EXPOSURE: C (FLAT, UNOBSTRUCTED AREAS AND WATER SURFACES)
MAXIMUM WIND VELOCITY: V = 341 KPH

WHERE: V = WIND VELOCITY (KPH)
 C_{pe} = EXTERNAL PRESSURE COEFFICIENT
 C_{pi} = INTERNAL PRESSURE COEFFICIENT

2.3 SEISMIC LOAD

DESIGN BASE SHEAR: $V = 0.11 W$
DESIGN BASE MOMENT: $M = 0.04 W H$

WHERE: W = TOTAL DEAD LOAD
 T = NATURAL PERIOD (S)
WHERE: C = NUMERICAL COEFFICIENT
 H = BUILDING HEIGHT
 I = IMPORTANCE FACTOR = 1.50
 R = NUMERICAL FACTOR = 8.50
SEISMIC COEFFICIENT $C_s = 0.44 W$
 $C_s = 0.44 W$
NEAR SOURCE FACTOR $S_N = 1.0$
 $S_N = 1.0$
 Z = SEISMIC ZONE = 0.40 (ZONE 4)
 S = SOIL TYPE = D

3.0 DESIGN STRESSES

A. CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS	
1. FOOTINGS, COLUMNS, BEAMS AND SLABS	$f_c = 30.7 \text{ MPa (3,000 psi)}$
2. SLAB ON GULLY	$f_c = 17.5 \text{ MPa (1,500 psi)}$
B. REINFORCING STEEL BARS	
1. FOR BARS 10mm AND GREATER (INTERMEDIATE GRADE DEFORMED BARS)	$f_y = 275 \text{ MPa (40,000 psi)}$
2. FOR BARS LESS THAN 10mm (STRUCTURAL GRADE DEFORMED BARS)	$f_y = 235 \text{ MPa (33,000 psi)}$
C. STRUCTURAL STEEL ASTM A36	
FOR TRUSSES, BRACINGS, & STRUTS	$f_y = 248 \text{ MPa (35,000 psi)}$
D. WELDS	
1. EPOXY COATED LIGHT	$f_u = 248 \text{ MPa (35,000 psi)}$
2. MASONRY UNIT (CHB)	$f_m = 3.45 \text{ MPa (500 psi)}$
3. WELDS	$f_u = 36.00 \text{ MPa (5,000 psi)}$
4. STRUCTURAL BOLTS ASTM A307	$f_u = 58.00 \text{ MPa (8,000 psi)}$

- IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GOVERN. DISTANCES AND SIZES SHALL NOT BE GOVERNED FOR CONSTRUCTION PURPOSES.
- IN REFERENCES TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR PARTITIONS, LOCATIONS OF DOORS ETC.
- IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND ARCHITECT.
- ALL CONCRETE WORKS AND CONCRETE REINFORCEMENTS SHALL BE DONE IN ACCORDANCE WITH THE ADDITIONAL BUILDING CODE REQUIREMENT AND ALL STRUCTURAL STEEL WORKS ACCORDING WITH THE WITH THE ASCE 308 AS FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
- NO REFERENCES TO AMERICAN CONCRETE INSTITUTE, AISC REFERS TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND ASTM REFERS TO AMERICAN SOCIETY FOR TESTING MATERIALS.
- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAWING WITH ERECTION AND PLACING DIAGRAM OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
- CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOODS, EQUIPMENT AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS.
- ALL RESULTS OF THE MATERIAL TESTING FOR CONCRETE, REINFORCING BARS & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE MATERIALS ENGINEER/STRUCTURAL DESIGNER.

NOTES ON CONCRETE MIXES & PLACING

1. ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY (20) DAYS OR CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMP AS FOLLOWS:

LOCATION	28 DAYS STRENGTH	MAX. SIZE OF AGGREGATE	SLUMP
ALL OTHERS, INCLUDING:	3000 PSI (20.7 MPa)	20 mm	100mm
SUSPENDED SLABS	3000 PSI (20.7 MPa)	20 mm	100mm
COLUMNS	3000 PSI (20.7 MPa)	20 mm	100mm
BEAMS, SLABS	3000 PSI (20.7 MPa)	20 mm	100mm
SLAB ON GULLY	2500 PSI (17.5 MPa)	20 mm	130mm

2. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

SUSPENDED SLABS	20mm
SLAB ON GRADE	40mm
WALLS ABOVE THE GRADE	40mm
BEAM STRUTS AND COLUMNS	40mm
WHERE CONCRETE IS EXPOSED TO EARTH-BILT Poured AGAINST FORMS	50mm
WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	75mm

- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. REINFORCING OR PLACING SHALL BE DONE PREFERABLY WITH BUCKETS, KUCKETS OR WHEELBARROWS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUCKETS, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.
- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING DESIGNER AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS ARE EXTREMELY DIFFICULT TO ACHIEVE.
- ALL ANCHOR BOLTS, DOWELS AND OTHER REINFORCEMENTS SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
- ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
- STRIPPING OF FORMS AND SHORES

- FOUNDATION
 - SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED
 - WALLS
 - BEAMS
 - COLUMNS
6. THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST (4) DAYS PRIOR TO THE POURING FOR APPROVAL.
7. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORING UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

NOTES ON FOOTINGS

- FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 30 KPa (3000 psi). CONTRACTOR SHALL REPORT TO THE ENGINEER, IN WRITING, THE ACTUAL SOIL CONDITIONS UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
- FOOTING SHALL REST AT LEAST 150mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
- MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE 25mm CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.
- IN CASES WHERE THE SOIL CONDITION IS SUCH THAT THE MINIMUM ALLOWABLE SOIL BEARING OF 30KPa (3000 psi) CAN NOT BE ATTAINED AT A PRACTICAL DEPTH, THE USE OF MICROPILES, BORED PILES, OR DRIVEN PILES MAY BE ADOPTED IN LIEU OF STANDARD ISOLATED FOOTINGS.

NOTES ON REINFORCEMENT

- UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:
 - FOOTINGS, FOOTING BEAMS AND GIRDERS: $f_y = 275 \text{ MPa (40,000 psi)}$
 - COLUMNS AND BEAM WALLS: $f_y = 275 \text{ MPa (40,000 psi)}$
 - BEAMS AND GIRDERS: $f_y = 275 \text{ MPa (40,000 psi)}$
 - NON-LOAD BEARING WALL PARTITIONS, REDDED SLAB, FLOOR & ROOF SLABS, PARAPETS, CATCH BASIN SIDE WALLS: $f_y = 235 \text{ MPa (33,000 psi)}$
- ALL REINFORCING BARS SIZE 10mm OR LARGER SHALL BE DEVELOPED IN ACCORDANCE WITH THE ASTM A706. BARS SMALLER THAN 10mm MAY BE PLAIN.
- SPICES SHALL BE SECURELY WELDED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE B (TABLE OF LAP SPICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPICES SHALL BE STAGGERED WHEREVER POSSIBLE.

NOTES ON CONCRETE SLABS

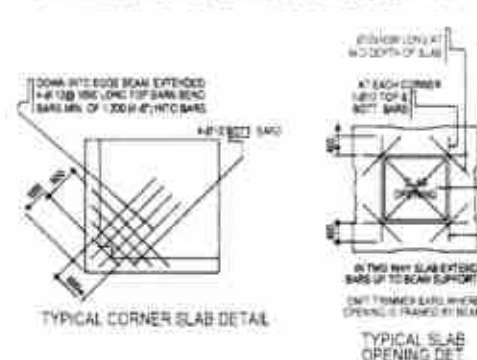
- ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
- UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE AS FOLLOWS:



- IF SLABS ARE REINFORCED BOTHWAYS BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONGER SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR NEW CRACKS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL NOT BE MORE THAN ONE AND A HALF (1.5) SLAB THICKNESS.
- TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 CROSS-SECTIONAL AREA (AS) OF THE SLAB. (SEE SCHEDULES BELOW)

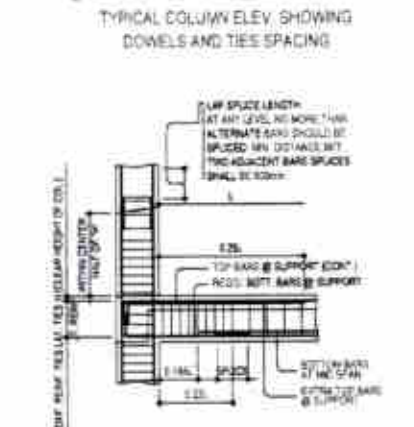
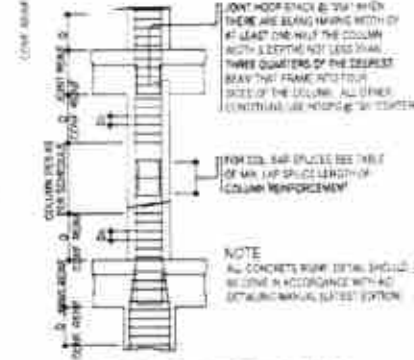
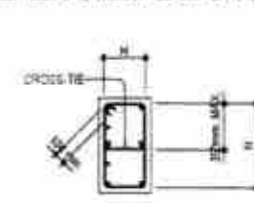
SCHEDULE OF MINIMUM SLAB REINFORCEMENT	
MINIMUM TEMPERATURE BARS	
100 mm	10mm @ 250mm EACH WAY
125 mm	10mm @ 250mm EACH WAY
150 mm	10mm @ 250mm EACH WAY
175 mm	10mm @ 250mm EACH WAY
200 mm	10mm @ 250mm EACH WAY

- UNLESS OTHERWISE NOTED IN THE PLANS ALL REINFORCED SLABS SHALL BE REINFORCED WITH 10mm @ 250mm O.C. EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SAME SHALL NOT BE LESS THAN 55 METER APART.
- PROVIDE EXTRA REINFORCEMENT FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW.
- CONCRETE SLAB REINFORCEMENT BE PROPERLY SUPPORTED WITH 10mm STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 1.2 METER OR CLOSER BOTHWAYS.



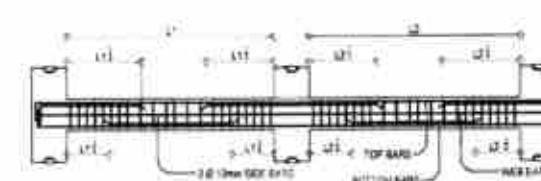
NOTES ON COLUMNS

- PROVIDE EXTRA SETS OF TIE AT 100 O.C. FOR TIED COLUMN REINFORCEMENT ABOVE AND BELOW BEAM-COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO GREATER OF THE OVERALL THICKNESS OF COLUMN, 1/8 THE CLEAR HEIGHT OF COLUMN OR 450mm.
- COLUMN TIES SHALL BE PROTECTED EVERYWHERE BY A COVERING OF CONCRETE CAST MONOLITHICALLY WITH THE CORE WITH A MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 4 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE IN MILLIMETERS.
- WHERE COLUMN CHANGE IN SIZE, VERTICAL REINFORCEMENT SHALL BE OFFSET AT A SLOPE MONOLITHICALLY WITH THE CORE WITH MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 4 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE IN MILLIMETERS.
- UNLESS OTHERWISE INDICATED IN THE PLANS, LAP SPICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT, AND THE LAP LENGTH SHALL BE LESS THAN 40 BAR DIAMETERS, WELDING OR APPROVED MECHANICAL DEVICES MAY BE USED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR JOINTS OF ADJACENT BARS IS NOT LESS THAN 600mm.

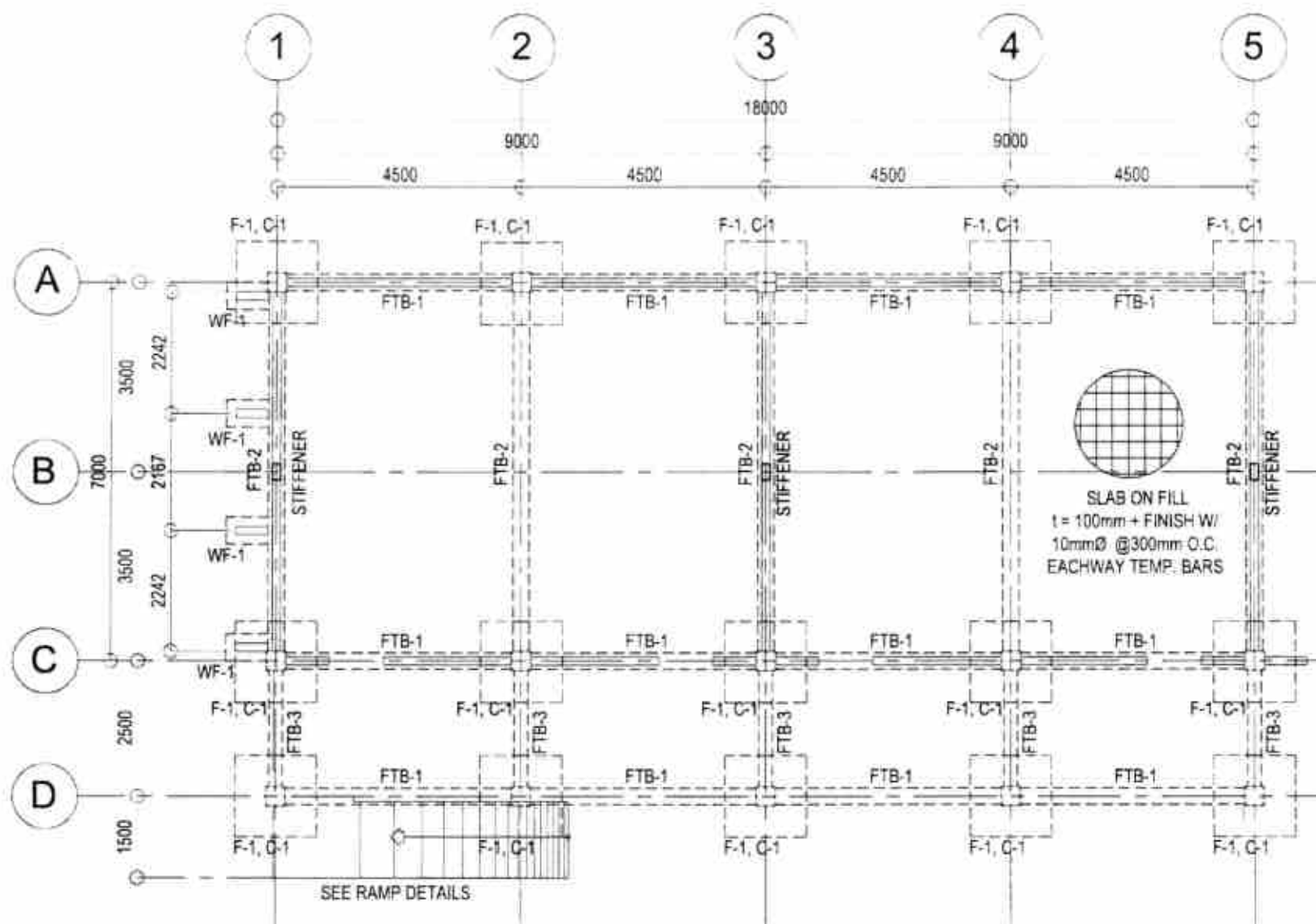


NOTES ON BEAMS AND GIRDERS

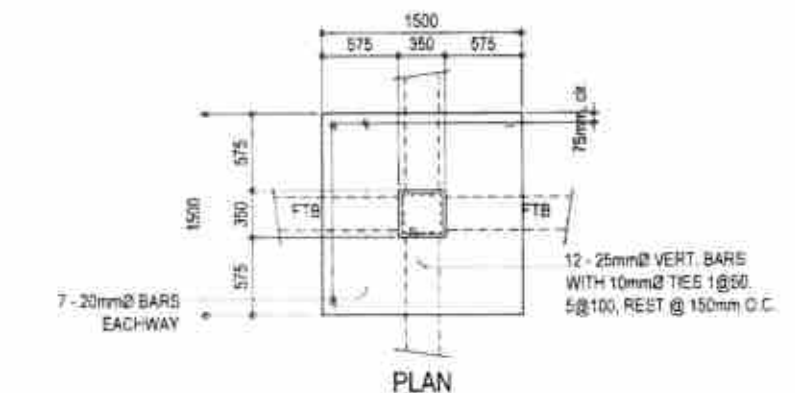
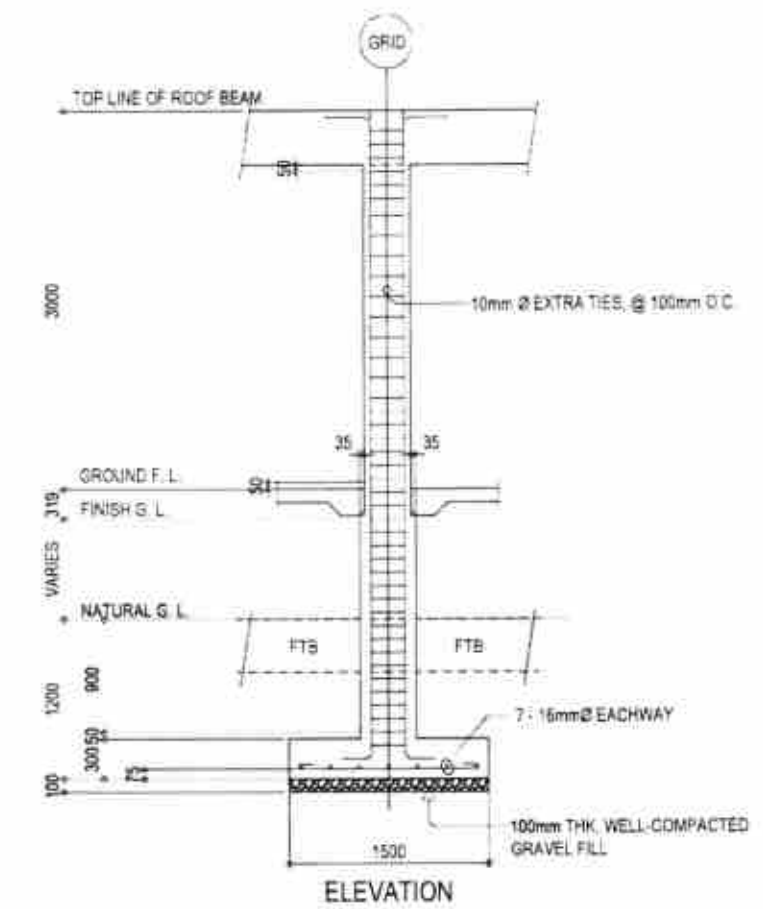
- UNLESS OTHERWISE NOTED IN PLANS, COVER ALL BEAMS AND GIRDERS AT LEAST 25mm FOR EVERY 450 M OF SPAN, EXCEPT CANTILEVER BEAMS FOR WHICH THE COVER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 25mm FOR EVERY 3.0 M OF FREE SPAN.
- TYPICAL BARS BENDING AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIG. B-1.



	Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS NORTHERN SAMAR DISTRICT ENGINEERING OFFICE BRGY. BURGAL, LAGANA, NORTHERN SAMAR REGION VII	PROJECT NAME AND LOCATION CONSTRUCTION OF ONE (1) STOREY, TWO (2) CLASSROOM SCHOOL BUILDING IN OLIVERAS ELEMENTARY SCHOOL, BARANGAY OLIVERAS, LAGANA, NORTHERN SAMAR.	SHEET CONTENTS GENERAL CONSTRUCTION NOTES	DRAFTED LUCITA AMY MARIE D. ESIDERA ARCHITECT PREPARED JANA FRANCES D. G. PERFECTO ARCHITECT PLANNING & DESIGN SECTION	CHECKED RYAN K. GALLANO ENGINEER & ASSISTANT PLANNING & DESIGN SECTION	SUBMITTED FRANK A. TORRENCIANO CHIEF PLANNING & DESIGN SECTION	RECOMMENDED FRANCISCO Y. TAÑALA DISTRICT ENGINEER	APPROVED ARTHUR ARIC L. SABONG, CE DISTRICT ENGINEER	SET NO. 5 1 3	SHEET NO. 17 30
	20 MAY 2025 21 MAY 2025 21 MAY 2025 22 MAY 2025 22 MAY 2025									



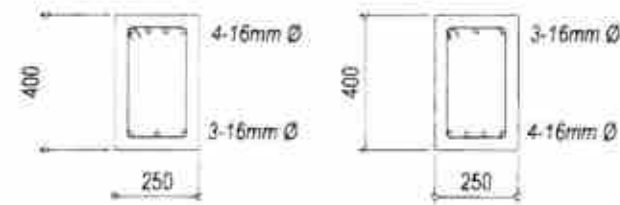
1
S-3
FOUNDATION PLAN
SCALE 1:100 M



2
S-3
DETAIL OF COLUMN AND FOOTING (F1,C1)
SCALE 1:25 M

	Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS NORTHERN SAMAR 2ND DISTRICT ENGINEERING OFFICE BRGY. BUNABU, LADANG, NORTHERN SAMAR REGION-VI	PROJECT NAME AND LOCATION CONSTRUCTION OF ONE (1) STOREY, TWO (2) CLASSROOM SCHOOL BUILDING IN OLERAS ELEMENTARY SCHOOL, BARANGAY OLERAS, LADANG, NORTHERN SAMAR	SHEET CONTENTS FOUNDATION PLAN DETAIL OF COLUMN AND FOOTING (F1,C1)	DRAFTED LUCITA MAY MARIE D. ESIDERA ARCHITECT PREPARED TARA FRANCIS DIANE G. PERFECTO ARCHITECT DATE 20 MAY 2025	CHECKED RYAN H. GALLANO ENGINEER, ASSISTANT CHIEF PLANNING & DESIGN SECTION DATE 21 MAY 2025	SUBMITTED RONA A. BAUNCIADO CHIEF, PLANNING & DESIGN SECTION DATE 21 MAY 2025	RECOMMENDED FRANCOY Y. TARALA REGISTERED PROFESSIONAL ENGINEER DATE 22 MAY 2025	APPROVED ATTY. ARTHUR ERIC L. SABONG, CE OC DISTRICT ENGINEER DATE 22 MAY 2025	SHEET NO. 15 SHEET NO. 30
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20 MAY 2025 21 MAY 2025 21 MAY 2025 22 MAY 2025 22 MAY 2025

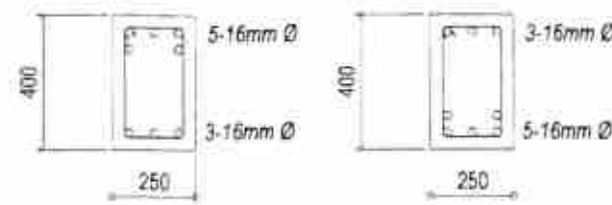


@SUPPORT

@MIDSPAN

10mm Ø STIRRUPS 1@50, 10@75, REST @ 150mm O.C.

FTB-1

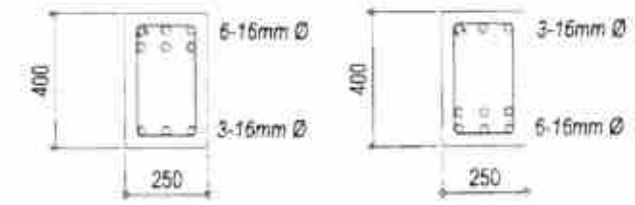


@SUPPORT

@MIDSPAN

10mm Ø STIRRUPS 1@50, 6@100, REST @ 150mm O.C.

FTB-2

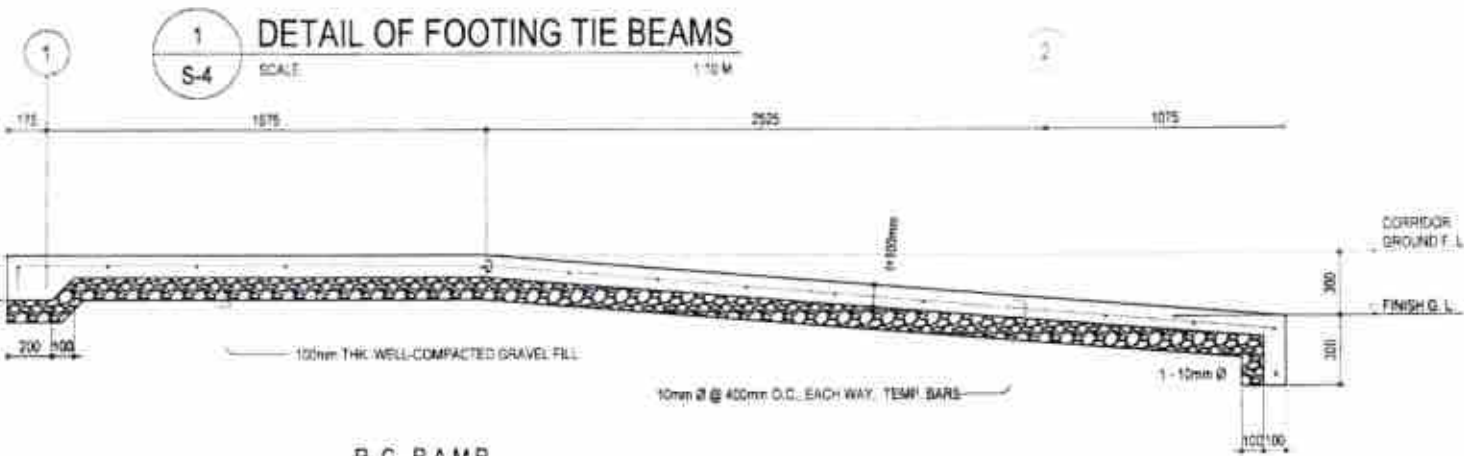


@SUPPORT

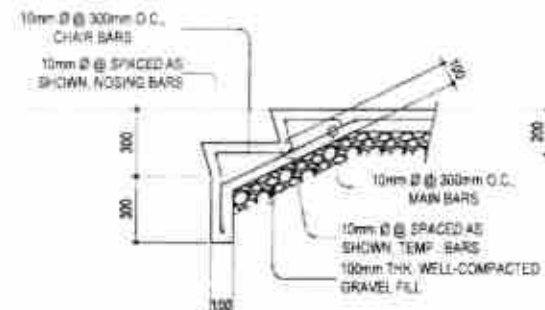
@MIDSPAN

10mm Ø STIRRUPS 1@50, 6@100, REST @ 150mm O.C.

FTB-3

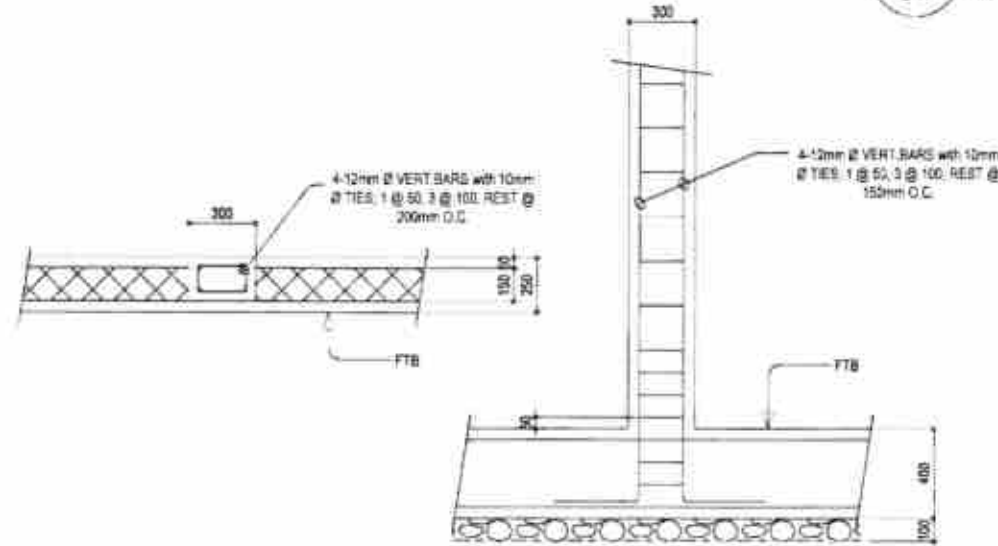


R.C. RAMP

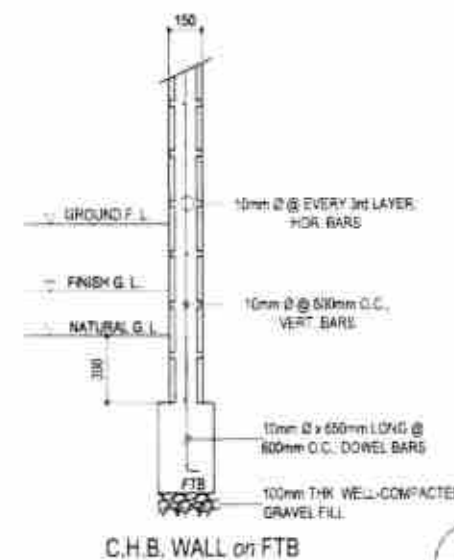


STAIR on FILL

2. DETAIL SECTIONS OF STAIR ON FILL and R.C. RAMP
SCALE 1:15 M



3. STIFFENER DETAIL
SCALE 1:15 M



4. DETAILS OF WALL-FOOTINGS
SCALE 1:15 M



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
NORTHERN SAMAR 2ND
DISTRICT ENGINEERING OFFICE
BRYE BURNARD, LAGANG, NORTHERN SAMAR REGION VII

PROJECT NAME AND LOCATION
CONSTRUCTION OF ONE (1) STOREY,
TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS, LAGANG,
NORTHERN SAMAR

SHEET CONTENTS
DETAIL OF WALL FOOTINGS
DETAIL SECTION OF STAIR ON FILL AND R.C.
RAMP
DETAIL OF FOOTING TIE BEAMS
STIFFENER DETAIL

DRAFTED
LUCITA RY MARIE D. ESIDERA
ARCHITECT
PREPARED
TARA FRANCIS CRANE G. PERFECTO
ARCHITECT
DATE
20 MAY 2025

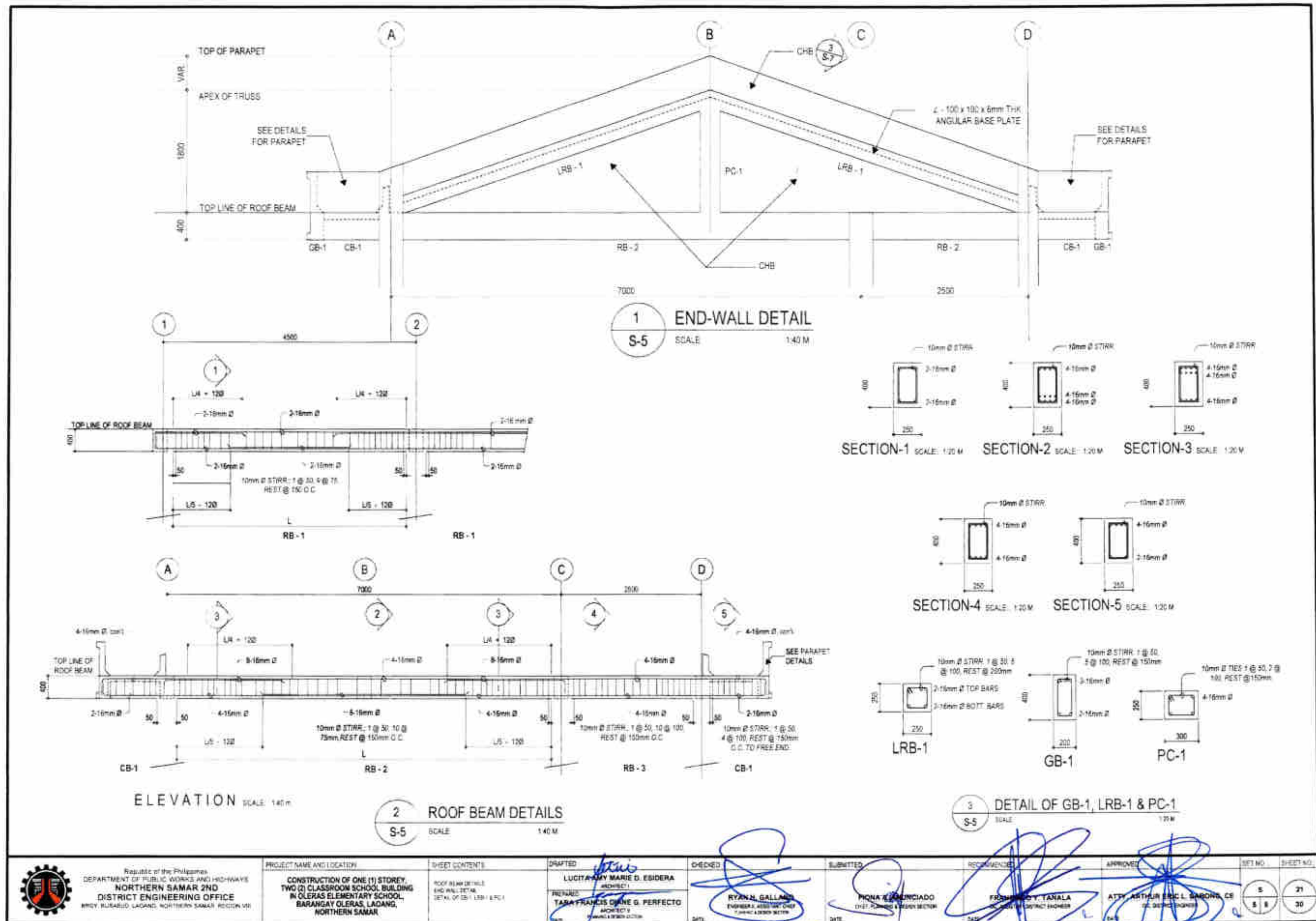
CHECKED
RYAN M. GALLARDO
ENGINEER & ASSISTANT CHIEF
DESIGNER & DESIGN SECTION
DATE
21 MAY 2025

SUBMITTED
FRANCIS CRANE G. PERFECTO
ARCHITECT
DATE
21 MAY 2025

RECOMMENDED
FRANCIS CRANE G. PERFECTO
ARCHITECT
DATE
22 MAY 2025

APPROVED
ARTHUR EDG L. SARONG, CE
REGISTERED ENGINEER
DATE
22 MAY 2025

SET NO. 5
SHEET NO. 20



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
NORTHERN SAMAR 2ND
DISTRICT ENGINEERING OFFICE
BRGY. BULABUO, LAGANG, NORTHERN SAMAR REGION VII

PROJECT NAME AND LOCATION
CONSTRUCTION OF ONE (1) STOREY,
TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS, LAGANG,
NORTHERN SAMAR

SHEET CONTENTS
ROOF BEAM DETAIL
END WALL DETAIL
DETAIL OF GB-1, LRB-1 & PC-1

DRAFTED
LUCITA AMY MARIE D. ESIDERA
ARCHITECT
PREPARED
TARA FRANCIS CRANE G. PERFECTO
ARCHITECT
CHECKED
RYAN N. GALLANER
ENGINEER, ASSISTANT CHIEF
ENGINEER & DESIGN SECTION
SUBMITTED
MIGUEL A. LOAIZA
CHIEF, PLANNING & DESIGN SECTION
RECOMMENDED
FRANCISCO Y. TANALA
DISTRICT ENGINEER
APPROVED
ATTY. ARTHUR ERIC L. BARONCE, CE
DISTRICT ENGINEER

20 MAY 2025

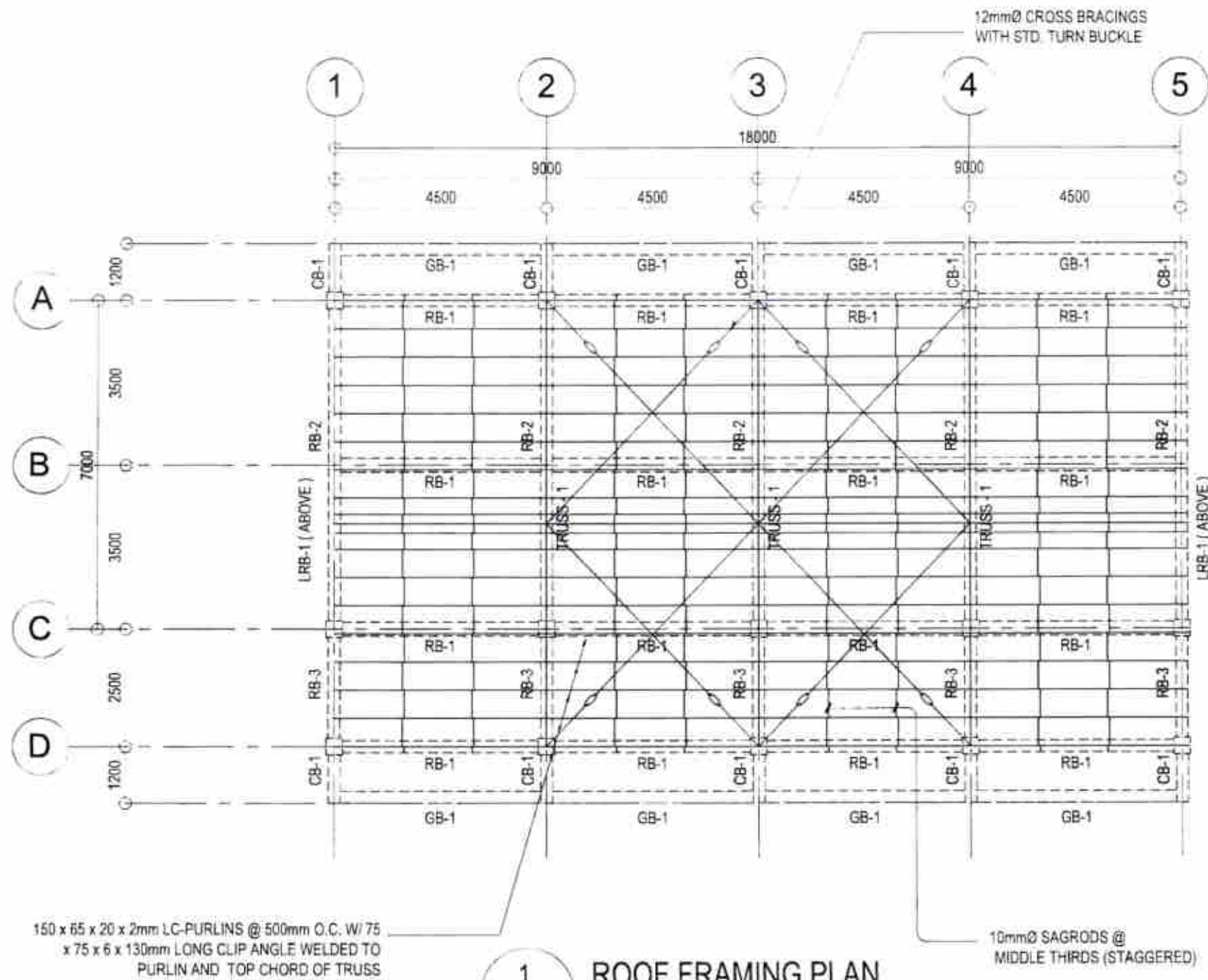
21 MAY 2025

21 MAY 2025

22 MAY 2025

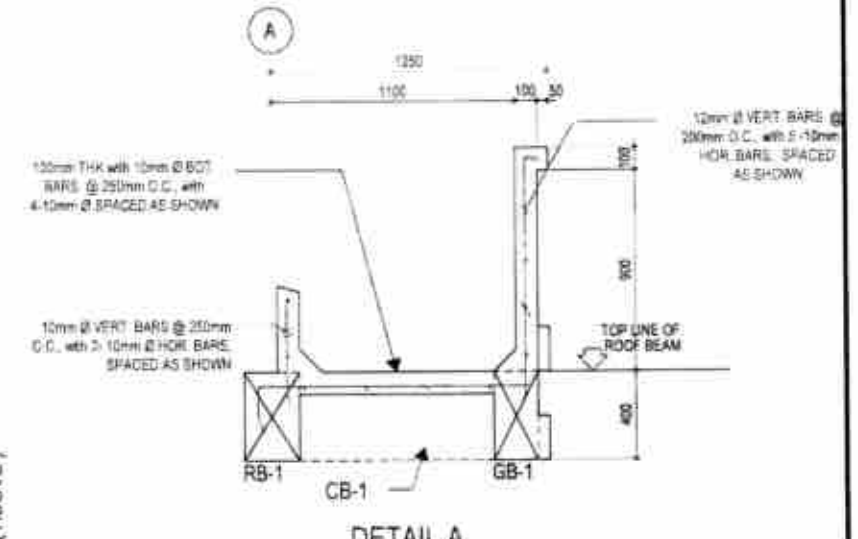
22 MAY 2025

SFT NO. 5
SHEET NO. 21

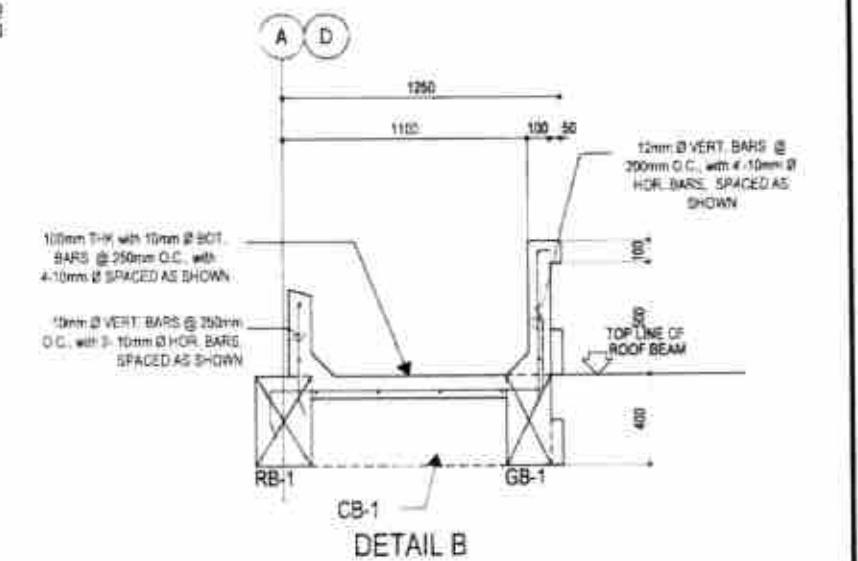


1
S-6
ROOF FRAMING PLAN
SCALE 1:100 M

SCHEDULE OF MEMBERS AND WELDS					
MARK	TRUSS MEMBERS SIZES	SIZE OF WELDS			REMARKS
		THICKNESS	LENGTH, mm		
			L ₁	L ₂	
A	2x6-75x75x6	6mm	FULL WELD		
B	2x6-75x75x6	6mm	125	100	50
C	2x6-50x50x6	6mm	125	100	50
D	2x6-50x50x6	6mm	100	75	50



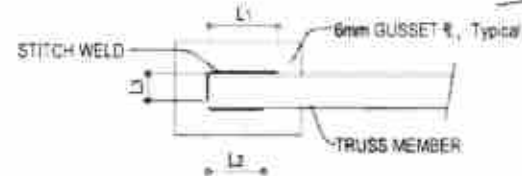
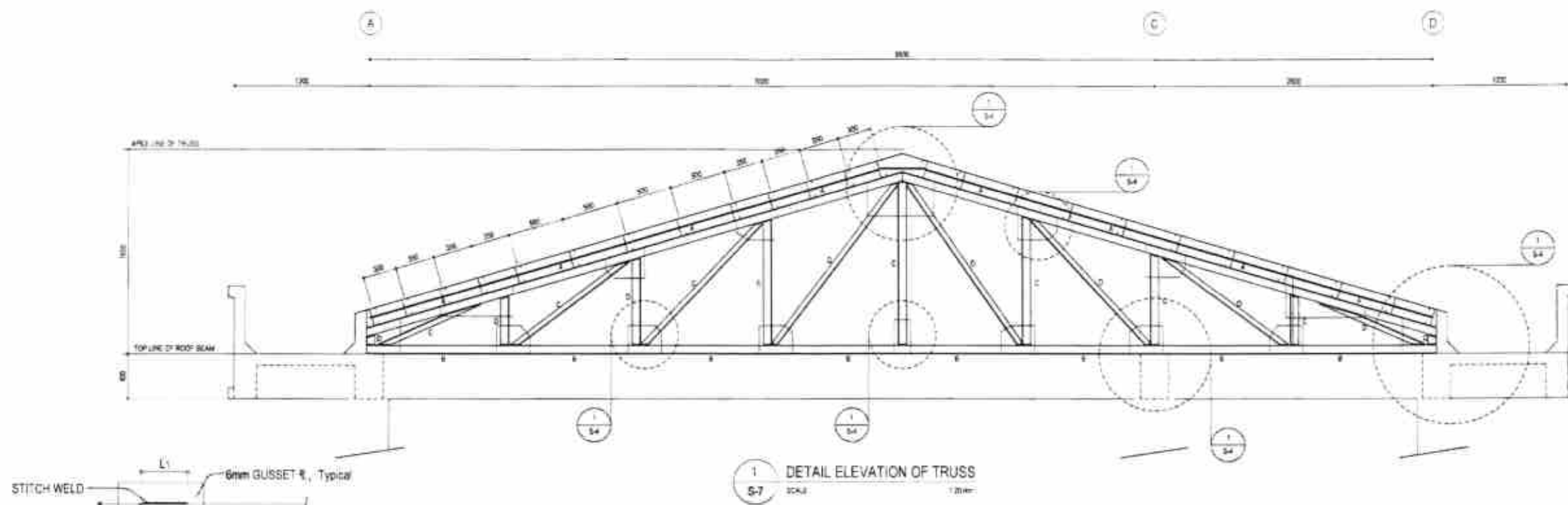
DETAIL A



DETAIL B

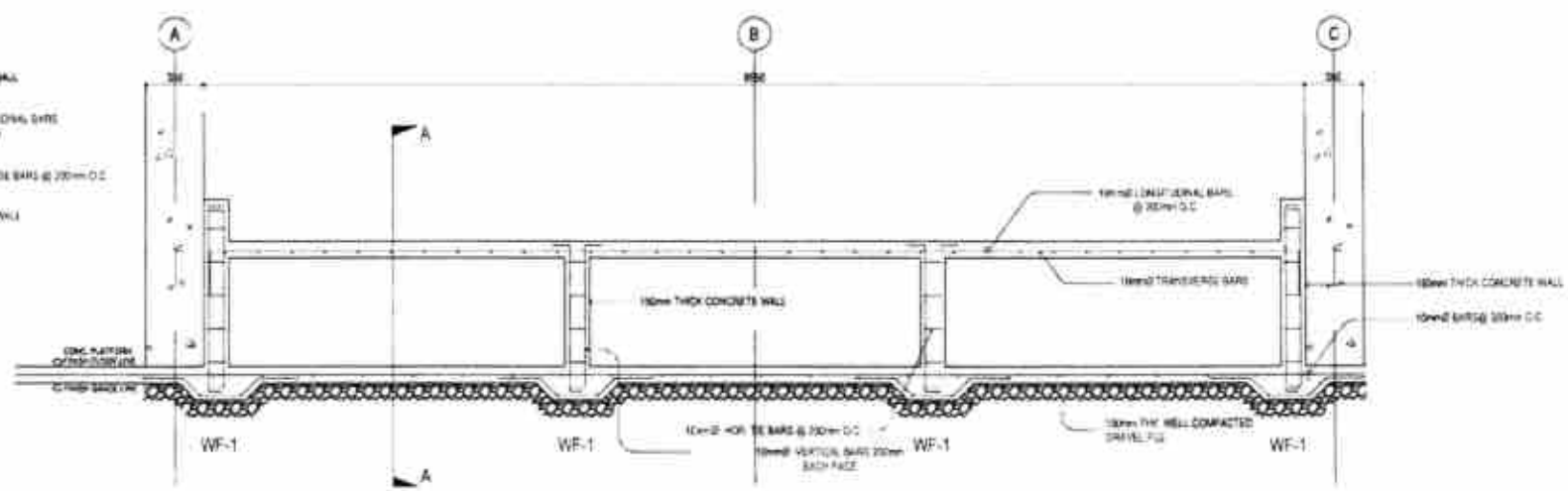
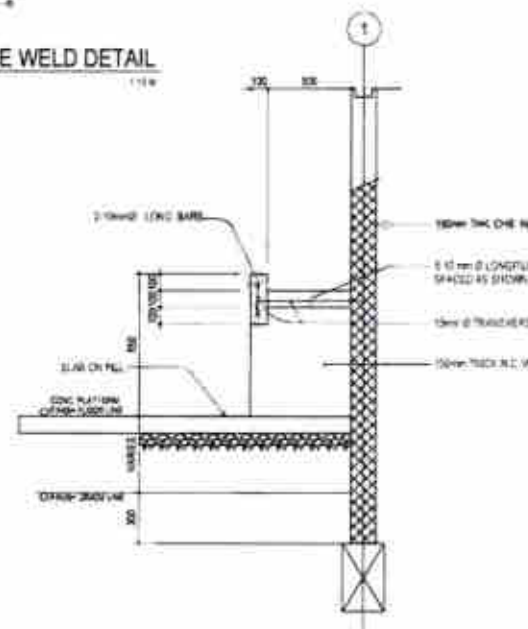
2
S-6
DETAIL OF R.C. GUTTER
SCALE 1:25 M

	Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS NORTHERN SAMAR 2ND DISTRICT ENGINEERING OFFICE BRGY. BUSABUL, LAJANG, NORTHERN SAMAR REGION VII	PROJECT NAME AND LOCATION CONSTRUCTION OF ONE (1) STOREY, TWO (2) CLASSROOM SCHOOL BUILDING IN OLERAS ELEMENTARY SCHOOL, BARANGAY OLERAS, LAJANG, NORTHERN SAMAR	SHEET CONTENTS ROOF FRAMING PLAN DETAIL OF R.C. GUTTER	DRAFTED LUCITA MAY MARIE D. ESIDERA ARCHITECT PREPARED TARA FRANCIS DIANE G. PERFECTO ARCHITECT DATE 20 MAY 2025	CHECKED RYAN H. GALLANO ENGINEER DATE 21 MAY 2025	SUBMITTED RONALD R. BERNARDO ENGINEER DATE 21 MAY 2025	RECOMMENDED FRANCIS RAY TARKLA REGISTERED PROFESSIONAL ENGINEER DATE 22 MAY 2025	APPROVED ATTY. ARTHUR ERIC C. SABONG, CE REGISTERED PROFESSIONAL ENGINEER DATE 22 MAY 2025	SET NO. 5	SHEET NO. 23



NOTES ON ROOF CONSTRUCTION:

1. IN ACTUAL FABRICATION OF STEEL TRUSSES, MEMBERS MEETING AT POINTS SHALL HAVE THEIR ENDS CUT AT AN ANGLE AS NEARLY AS PRACTICABLE TO A COMMON POINT.
2. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING AND MAKE ACTUAL MEASUREMENTS IN THE FIELD PRIOR TO FABRICATION/ERECTION OF ALL TRUSSES.
3. THE FABRICATOR/CONTRACTOR SHALL SUBMIT SHOP DETAILS DRAWINGS PRIOR TO FABRICATION OF TRUSSES FOR APPROVAL OF THE DISTRICT BUREAU OF DESIGN.



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
NORTHERN SAMAR 2ND
DISTRICT ENGINEERING OFFICE
BPOY, BUNARUD, LAOANG, NORTHERN SAMAR, REGION VII

PROJECT NAME AND LOCATION
CONSTRUCTION OF ONE (1) STOREY,
TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS, LAOANG,
NORTHERN SAMAR

SHEET CONTENTS
DETAIL ELEVATION OF TRUSS
SCHEDULE OF TRUSS MEMBERS AND WELDS
REFERENCE WELD DETAIL
DETAILS OF LAVATORY (HANDWASH)
DETAILS OF HANDWASH

DRAFTED
LUCITA AMY MARIE D. ESIDERA
ARCHITECT
PREPARED
TARA FRANCIS DIANE G. PERFECTO
ARCHITECT
DATE
20 MAY 2025

CHECKED
RYAN H. GALLAND
ENGINEER
DATE
21 MAY 2025

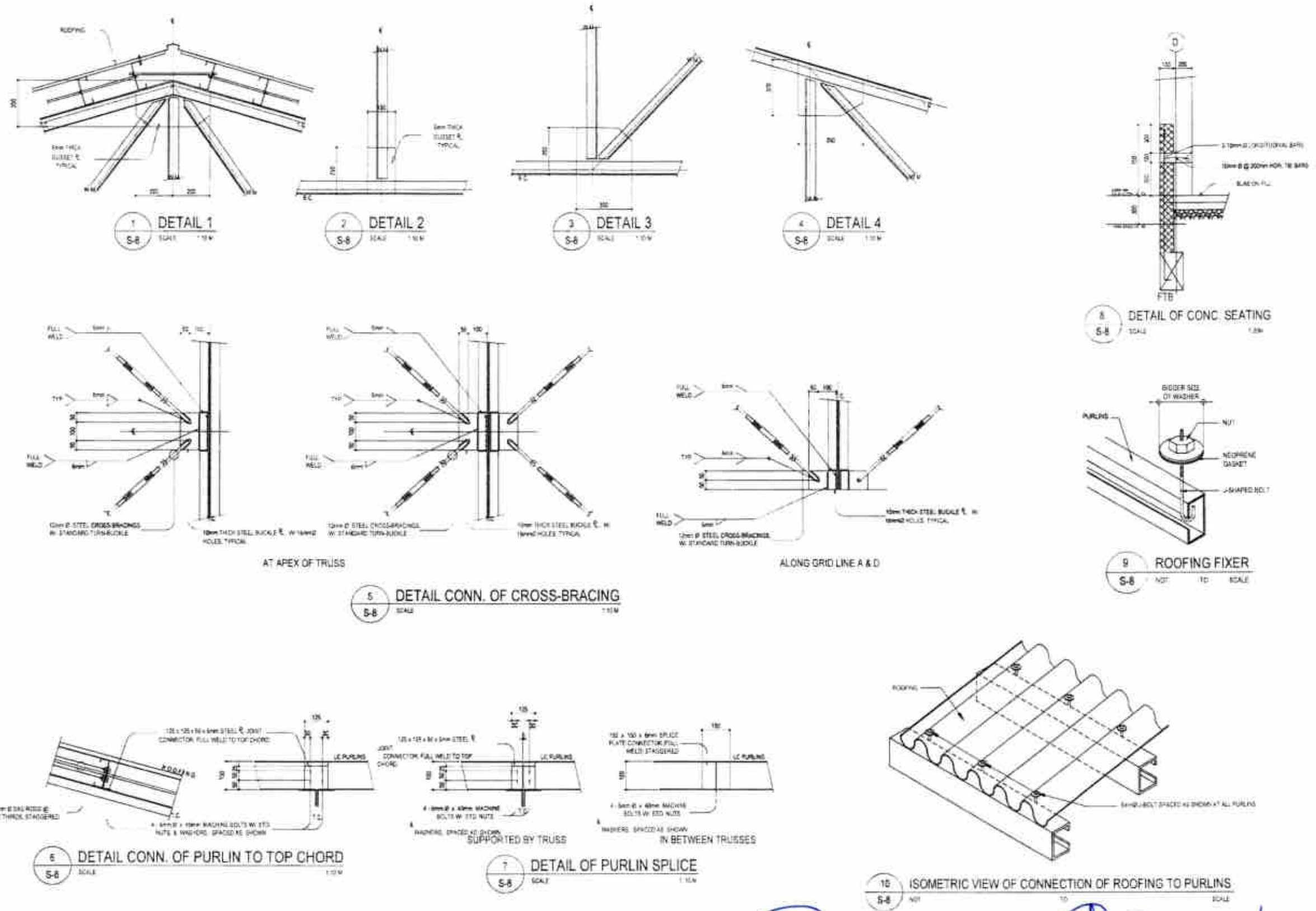
SUBMITTED
FRANCISCO Y. SARASA
CHIEF PLANNING SECTION
DATE
21 MAY 2025

RECOMMENDED
FRANCISCO Y. SARASA
CHIEF PLANNING SECTION
DATE
22 MAY 2025

APPROVED
ATTY. ARTHUR ERIC L. SABONG, CE
DISTRICT ENGINEER
DATE
22 MAY 2025

SHEET NO.
23
SHEET NO.
30

20 MAY 2025 21 MAY 2025 21 MAY 2025 22 MAY 2025 22 MAY 2025



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
NORTHERN SAMAR 2ND DISTRICT ENGINEERING OFFICE
BROD ALKARIG, LAGANG, NORTHERN SAMAR REGION VII

PROJECT NAME AND LOCATION
CONSTRUCTION OF ONE (1) STOREY, TWO (2) CLASSROOM SCHOOL BUILDING IN OLERAS ELEMENTARY SCHOOL, BARANGAY OLERAS, LAGANG, NORTHERN SAMAR

SHEET CONTENTS
TRUSS CONNECTION DETAILS (DETAIL 1-4)
DETAIL CONNECTION OF CROSS-BRACING
DETAIL CONNECTION OF PURLIN TO TOP CHORD
DETAIL OF PURLIN SPLICE
DETAIL OF CONCRETE SEATING
ISOMETRIC VIEW OF CONNECTION OF ROOFING TO PURLINS

DRAFTED
LUCITA MARY MARIE D. ESIDERA
ARCHITECT
TARA FRANCIS JANE G. PERFECTO
ARCHITECT
PLANNING & DESIGN SECTION

CHECKED
RYAN V. GALLANO
ENGINEER
DESIGN & CONSTRUCTION SECTION

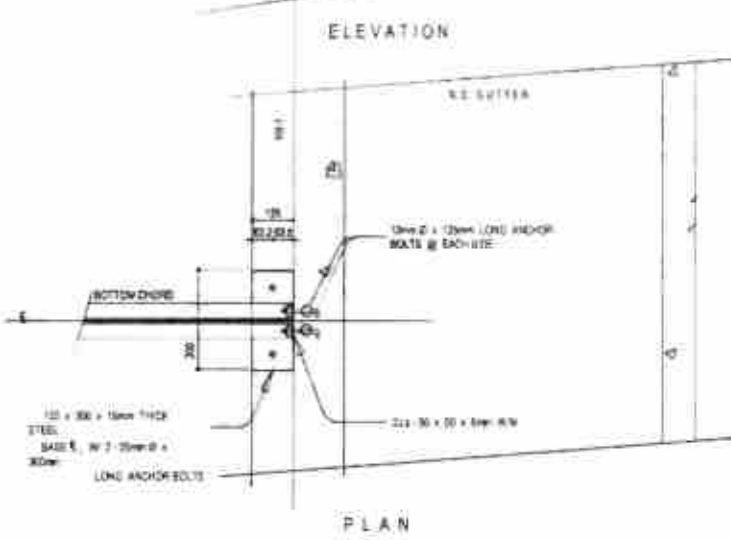
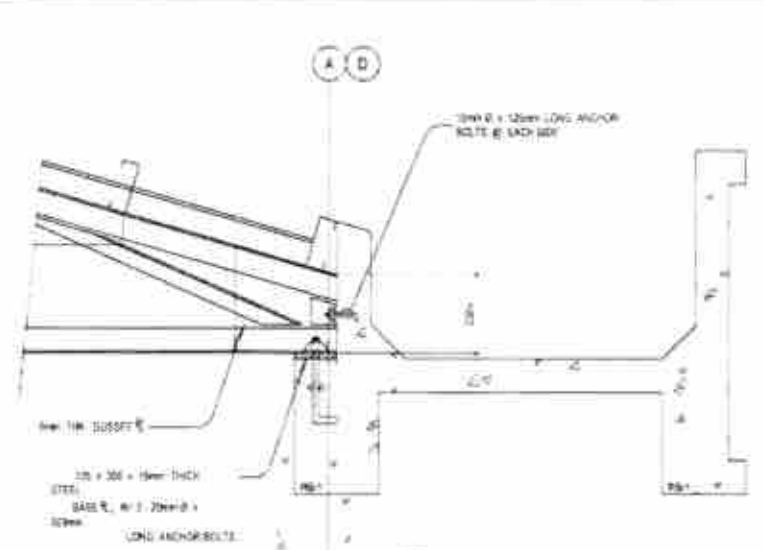
SUBMITTED
FIONA B. MANCINO
CHIEF PLANNING & DESIGN SECTION

RECOMMENDED
FRANCISCO Y. TAYALA
DEPUTY REGIONAL ENGINEER

APPROVED
ARTEMIO ERIC S. SABONG
DISTRICT ENGINEER

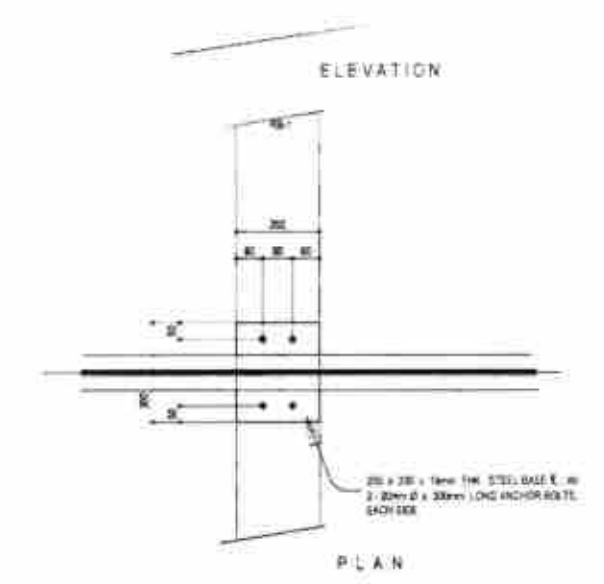
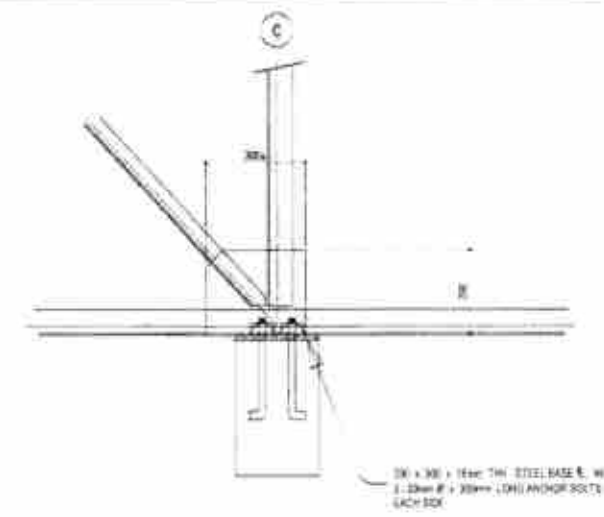
SET NO.	SHEET NO.
5	24
8	30

20 MAY 2025 21 MAY 2025 21 MAY 2025 22 MAY 2025 22 MAY 2025



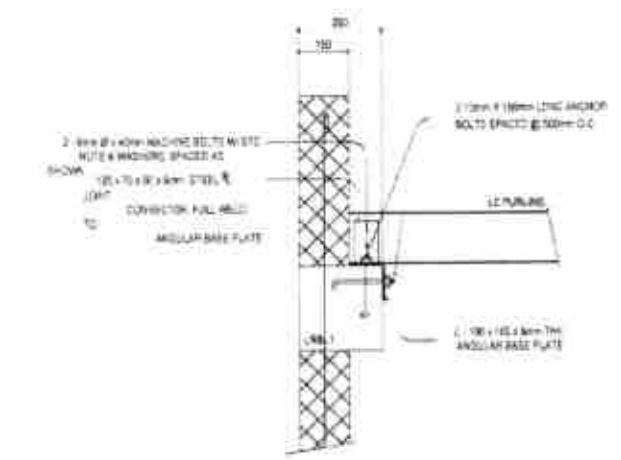
1
S-9
SCALE
1:100

DETAIL OF TRUSS ANCHORAGE @ GRID LN. A & D



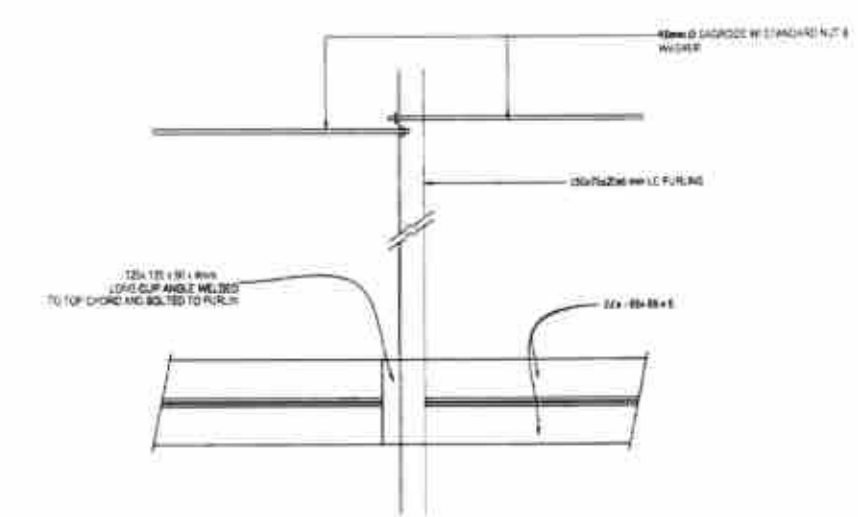
2
S-9
SCALE
1:100

DETAIL OF TRUSS ANCHORAGE @ GRID LN. C



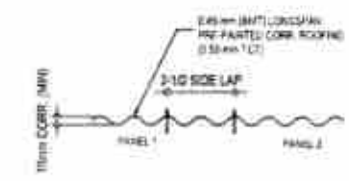
3
S-9
SCALE
1:100

DETAIL CONN. OF PURLINS TO END-WALL



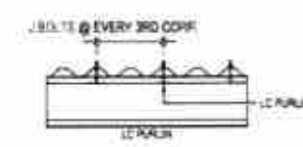
5
S-9
SCALE
1:100

DETAIL OF PURLIN TO SAG ROD CONNECTION



4
S-9
SCALE
1:100

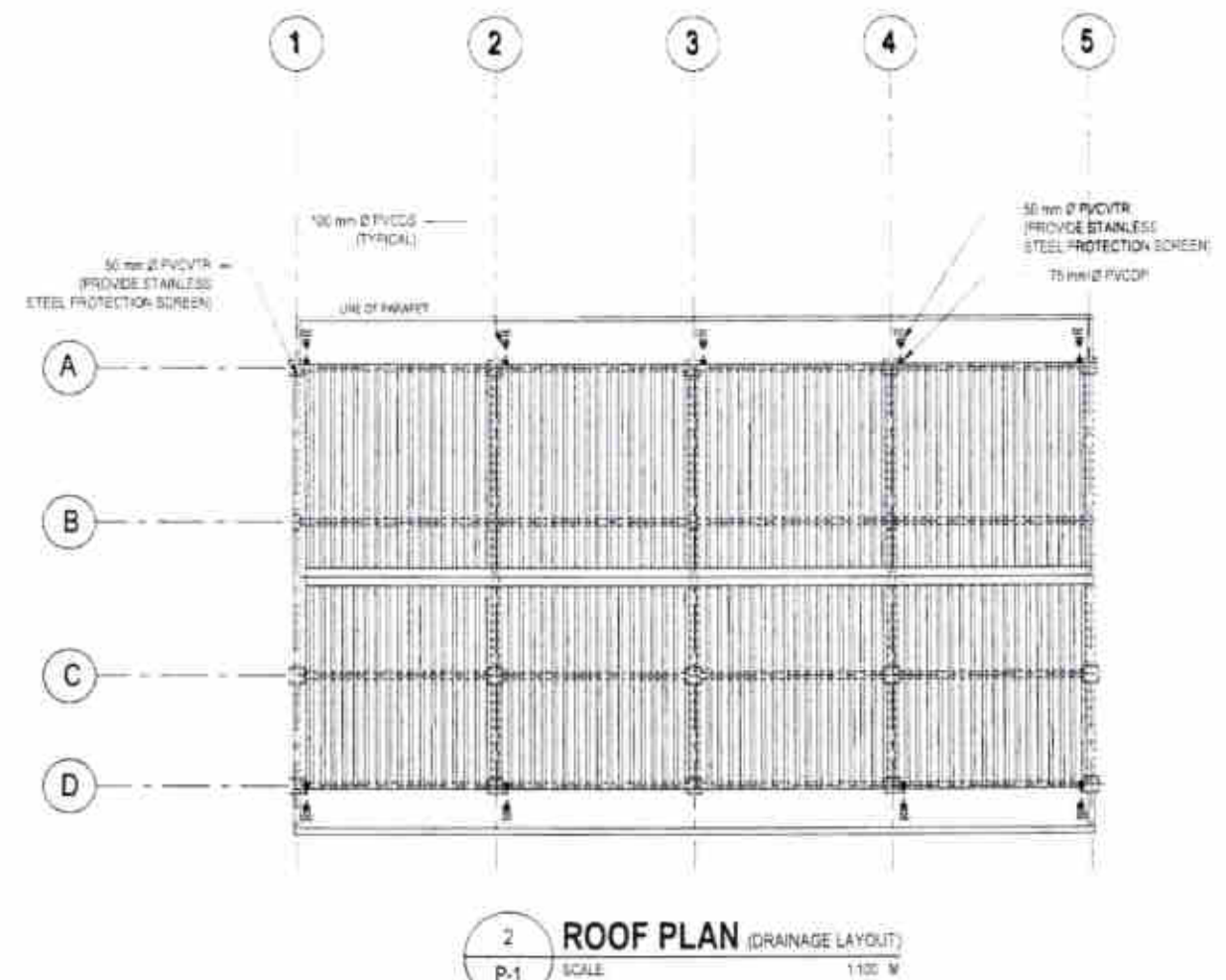
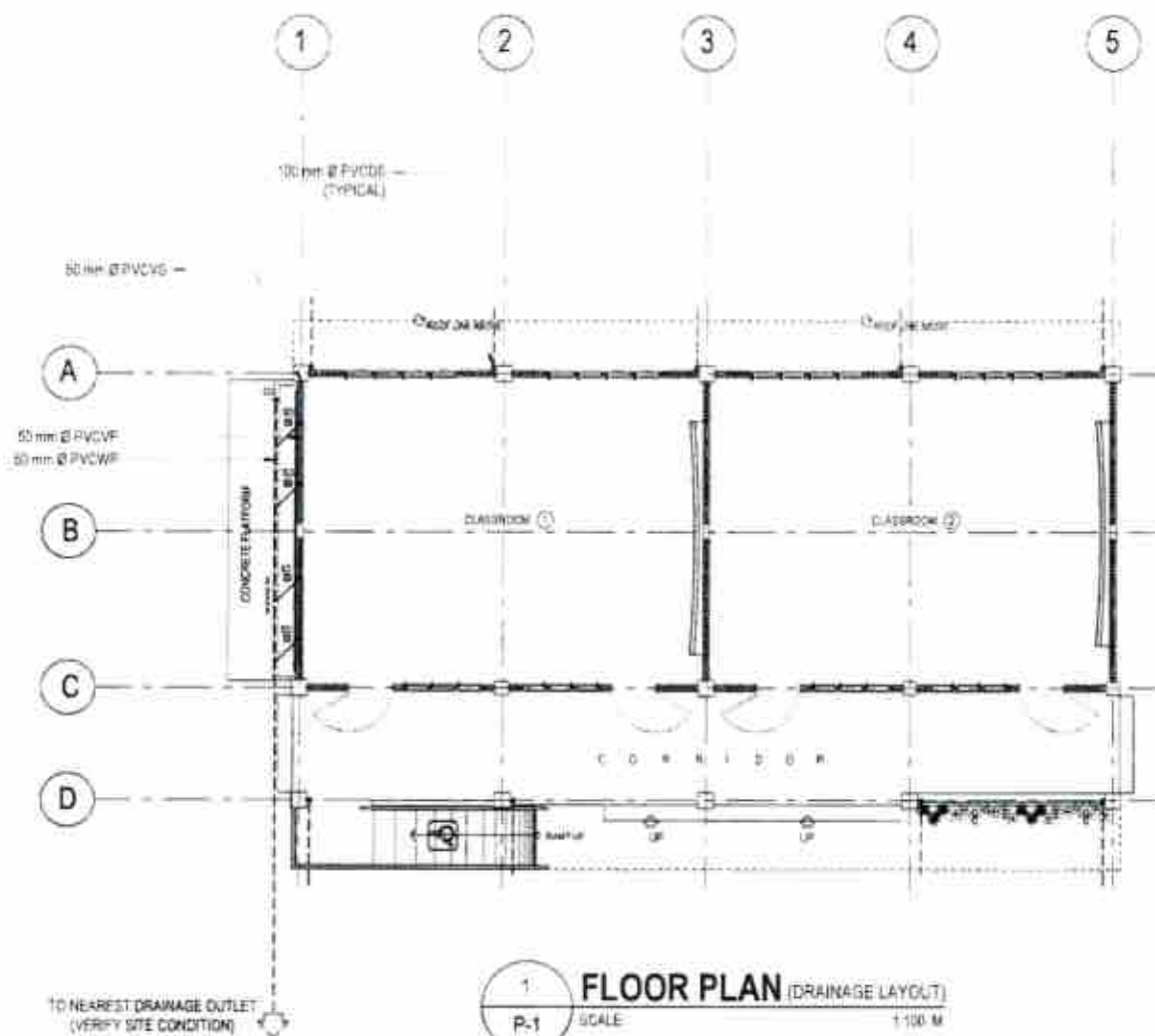
ROOF PANEL SIDE LAP DETAIL



5
S-9
SCALE
1:100

J-BOLT SPACING

	Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS NORTHERN SAMAR 2ND DISTRICT ENGINEERING OFFICE BPO, BUNABU, LAOANG, NORTHERN SAMAR, REGION VII	PROJECT NAME AND LOCATION CONSTRUCTION OF ONE (1) STOREY, TWO (2) CLASSROOM SCHOOL BUILDING IN OLERAS ELEMENTARY SCHOOL, BARANGAY OLERAS, LAOANG, NORTHERN SAMAR	SHEET CONTENTS DETAIL OF TRUSS ANCHORAGE @ GRID LN. A & D DETAIL OF TRUSS ANCHORAGE @ GRID LN. C DETAIL CONNECTION OF PURLIN TO END WALL J-BOLT SPACING ROOF PANEL SIDE LAP DETAIL DETAIL OF PURLIN TO SAG ROD CONNECTION	DRAFTED LUCITA MARY MARIE D. ESIDERA ARCHITECT CHECKED TARA FRANCIS DIANE G. PERFECTO ARCHITECT DATE 20 MAY 2025	CHECKED KUAY L. OLANO ENGINEER DATE 21 MAY 2025	SUBMITTED YOSHIA L. BALANCIADO CHIEF PLANNING & DESIGN SECTION DATE 21 MAY 2025	RECOMMENDED FRANCIS J. SARRICA O.C. ASSISTANT ENGINEER DATE 22 MAY 2025	APPROVED ATTY. MAURICIO L. SABONIS, CE O.C. DISTRICT ENGINEER DATE 22 MAY 2025	SHEET NO. 25 SHEET NO. 30
--	--	--	--	--	--	--	--	---	--



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
NORTHERN SAMAR 2ND
DISTRICT ENGINEERING OFFICE
BRGY. BURABUD, LADANG, NORTHERN SAMAR, REGION VII

PROJECT NAME AND LOCATION

CONSTRUCTION OF ONE (1) STOREY,
TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS,
LADANG, NORTHERN SAMAR

SHEET CONTENTS

FLOOR PLAN (DRAINAGE LAYOUT),
ROOF PLAN (DRAINAGE LAYOUT)

DRAFTED

LUCITA MAY MARIE D. ESIDERA
ARCHITECT
PREPARED
TARA FRANCIS DANE G. PERFECTO
ARCHITECT
DATE 20 MAY 2025

CHECKED

RYAN H. SALLANO
ENGINEER ASSISTANT CHIEF
PLANNING & DESIGN SECTION
DATE 21 MAY 2025

SUBMITTED

EDMAN SANCIBADO
CHIEF PLANNING & DESIGN SECTION
DATE 21 MAY 2025

RECOMMENDED

FRANCIS V. TARAALA
DISTRICT ENGINEER
DATE 22 MAY 2025

APPROVED

ATTY. ARTHUR KENCY L. SABONZA, CE
DISTRICT ENGINEER
DATE 22 MAY 2025

SHEET NO.

26

SHEET NO.

30

20 MAY 2025

21 MAY 2025

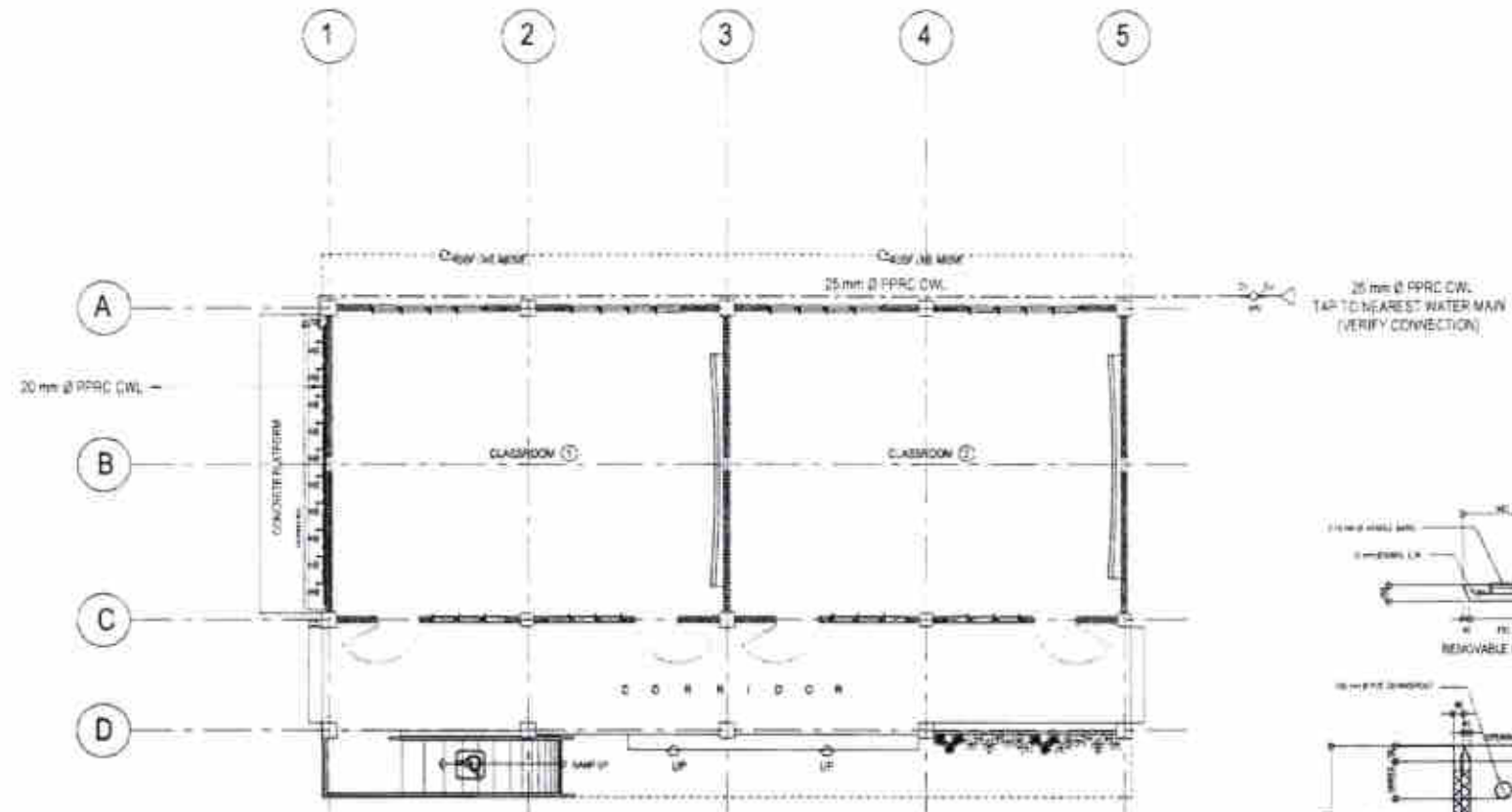
21 MAY 2025

22 MAY 2025

22 MAY 2025

PLUMBING NOTES:

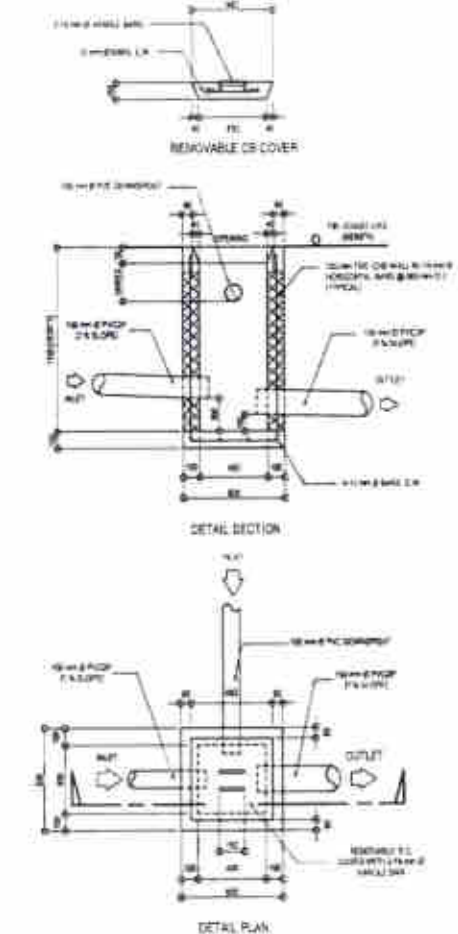
- GRADES OF HORIZONTAL PIPING
RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT AND AT A FORM GRADE OF NOT LESS THAN TWO PERCENT (2%).
- CHANGE IN DIRECTION
ALL CHANGE IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY FIVE DEGREES (45°) WYES, LONGSWEEP QUARTER BEND, SIX-EIGHT OR SIXTEENTH BENDS. WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL, 1/8 BEND COMBINATION MAYBE USED ON VERTICAL STACKS AND SHORT QUARTER BENDS MAYBE USED ON WASTE LINE. TEE AND CROSSES MAYBE USED IN VENT PIPES.
- PROHIBITED FITTINGS
NO DOUBLE HUB OR TEE BRANCH SHALL BE USED ON HORIZONTAL WASTE LINES. THE DRILLINGS AND TAPPINGS OF HOUSE DRAIN, WASTE OR VENT PIPES AND USE OF SADDLE HUB AND BEND ARE PROHIBITED.
- SLEEVES
PROVIDE PIPE SLEEVES AT WALLS, COLUMNS OR SLABS ONE SIZE BIGGER THAN THE ACTUAL SIZE PASSING THROUGH THE WALLS, COLUMNS OR UNDER SLAB TO PROTECT PIPE FROM BREAKAGE.
- PIPE CLEAN-OUTS
PIPE CLEAN-OUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS:
a. EVERY CHANGE IN HORIZONTAL DIRECTIONS EXCEEDING TWENTY-TWO AND ONE-HALF DEGREES (22 1/2°).
b. ONE AND ONE-HALF METERS (1.50 m) INSIDE THE PROPERTY LINE BEFORE THE HOUSE DRAINAGE CONNECTION.
c. EVERY FIFTEEN METERS (15.00 m) IN HORIZONTAL RUN OF PIPES.
d. AT THE END OF ANY HORIZONTAL PIPE LINES.
- THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.
- NOT LESS THAN 300 mm OF AIR SPACE MUST BE LEFT BETWEEN THE TOP OF THE SEWAGE AND THE UNDER PART OF THE VAULT ROOF SLAB.
- NO SEPTIC VAULT MUST BE CONSTRUCTED UNDER THE BUILDING.
- ALL PLUMBING WORKS SHALL BE DONE BY A LICENSED MASTER PLUMBER AND A LICENSED PLUMBING CONTRACTOR.



1 FLOOR PLAN (WATERLINE LAYOUT)
SCALE: 1:100 M

PLUMBING LEGENDS:

CO	CLEAN OUT	PVCDP	POLYVINYL CHLORIDE DRAIN PIPE (SERIES 1000) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
CV	CHECK VALVE	PVCDS	POLYVINYL CHLORIDE DOWNSPOUT (SERIES 1000) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
HB	HOSE BIBS	PVCVP	POLYVINYL CHLORIDE VENT PIPE (SERIES 800) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
GV	GATE VALVE	PVCVS	POLYVINYL CHLORIDE VENT STACK (SERIES 600) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
MH	MANHOLE	PVCVTR	POLYVINYL CHLORIDE VENT THROUGH ROOF (SERIES 800) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
SD	SEWAGE DRAIN	PVCWP	POLYVINYL CHLORIDE WASTE PIPE (SERIES 1000) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
WM	WATER METER		
PPRC CWL	POLYPROPYLENE RANDOM COPOLYMER COLD WATER LINE, TYPE 3, PN 16 (ISO 15874 / JOINING BY SOCKET FUSION)		



2 DETAIL OF CATCH BASIN
SCALE: 1:25 MPE



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
NORTHERN SAMAR 2ND
DISTRICT ENGINEERING OFFICE
BIDY, BUBABUG, LAJANG, NORTHERN SAMAR, REGION VII

PROJECT NAME AND LOCATION:
CONSTRUCTION OF ONE (1) STOREY,
TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS,
LAJANG, NORTHERN SAMAR

SHEET CONTENTS:
FLOOR PLAN (WATERLINE LAYOUT)
PLUMBING LEGENDS
PLUMBING NOTES
DETAIL OF CATCH BASIN

DRAFTED:
LUCITA AMY MARIE D. ESIDERA
ARCHITECT
TARA FRANCIS DEANE G. PERFECTO
ARCHITECT
PLANNING & DESIGN SECTION

CHECKED:
RYAN H. GALLANO
ENGINEER & ASSISTANT CHIEF
PLANNING & DESIGN SECTION

SUBMITTED:
JOSUA ALONSO DIAZ
ENGINEER & ASSISTANT CHIEF
PLANNING & DESIGN SECTION

RECOMMENDED:
FRANCISCO TANALA
ENGINEER & ASSISTANT CHIEF
PLANNING & DESIGN SECTION

APPROVED:
ATTY. ARTHUR ERIC L. SORONG, CE
DISTRICT ENGINEER

SHEET NO. 27
SHEET NO. 30

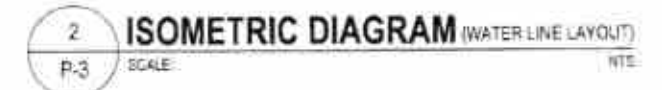
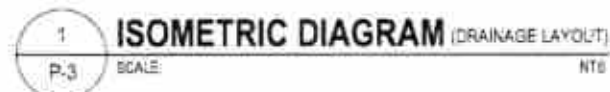
20 MAY 2025

21 MAY 2025

21 MAY 2025

22 MAY 2025

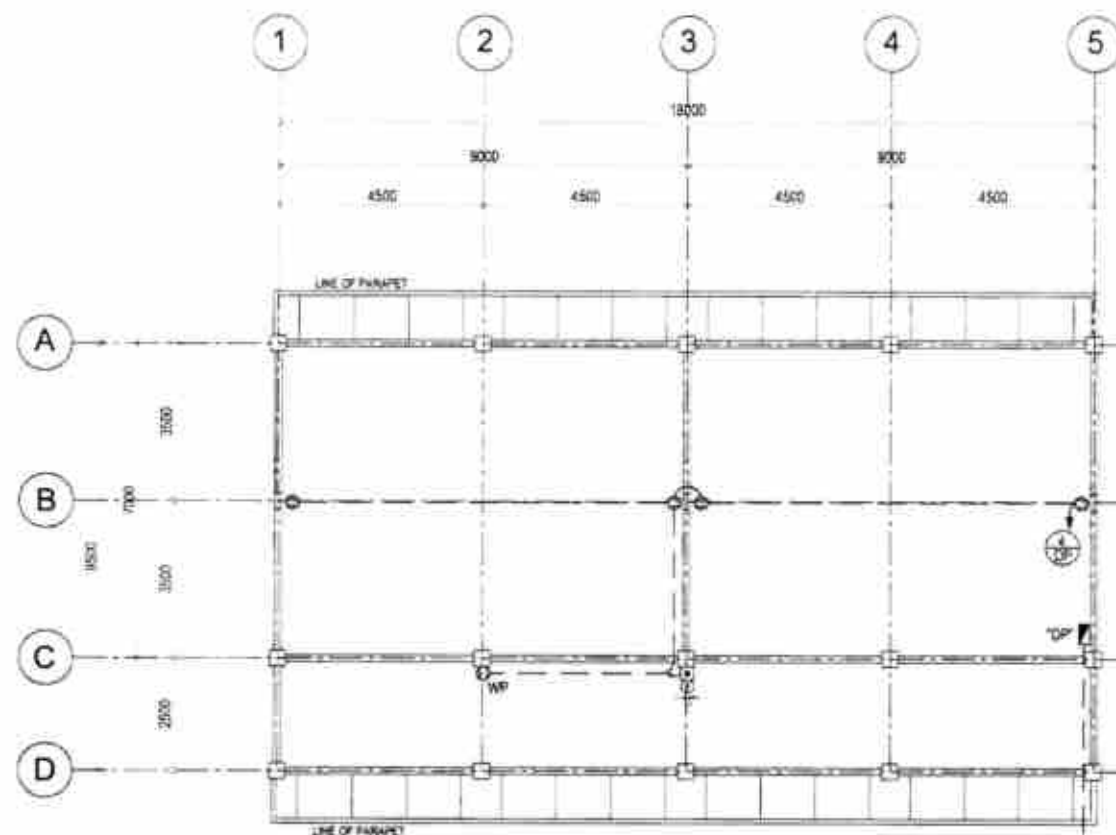
22 MAY 2025



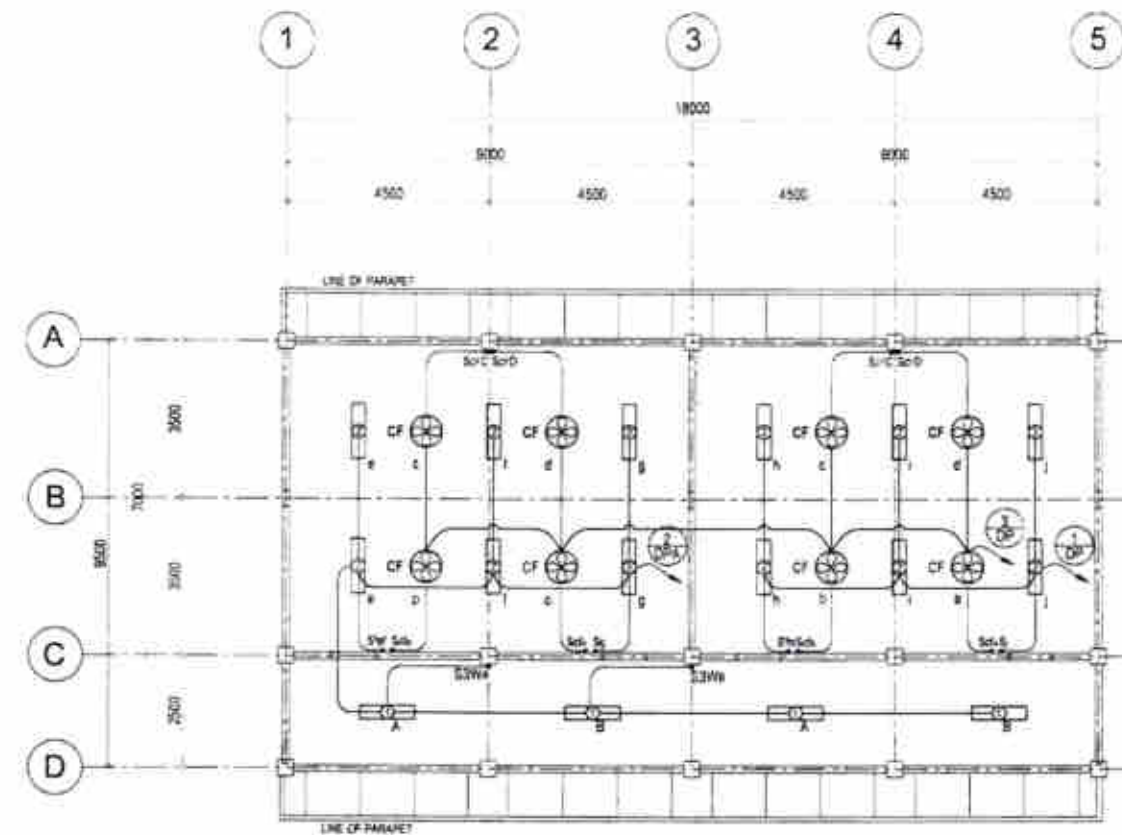
Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
**NORTHERN SAMAR 2ND
DISTRICT ENGINEERING OFFICE**
BPOV BURNING LACANG, NORTHERN SAMAR REGION VII

PROJECT NAME AND LOCATION	SHEET CONTENTS	DRAWN	CHECKED	SUBMITTED	RECOMMENDED	APPROVED	SET NO.	SHEET NO.
CONSTRUCTION OF ONE (1) STOREY, TWO (2) CLASSROOM SCHOOL BUILDING IN OLERAS ELEMENTARY SCHOOL, BARANGAY OLERAS, LADANG, NORTHERN SAMAR	(GEOMETRIC DIAGRAM (DRAINAGE LINE LAYOUT) (GEOMETRIC DIAGRAM (WATER LINE LAYOUT))	LUCITA JIMY MARIE D. ESIDERA ENGINEER-1	RYAN H. GALLANO ENGINEER 1, ASSISTANT CHIEF PLANNING & DESIGN SECTION	FRANCO S. SANCINADO CHIEF, PLANNING & DESIGN SECTION	FRANCISCO S. SARACA SAC, DISTRICT ENGINEER	ATTY. ARTHUR ERIC L. SABONG, CE J.C. DEPUTY ENGINEER	F 3 3	28 30

20 MAY 2025 21 MAY 2025 21 MAY 2025 22 MAY 2025 22 MAY 2025



1 POWER LAYOUT
E-1 SCALE 1:100 m



2 LIGHTING LAYOUT
E-1 SCALE 1:100 m

PROPOSED OVERHEAD ELECTRICAL SERVICE ENTRANCE (REFER TO ELECTRICAL RISER DIAGRAM)
NOTE: VERIFY EXACT LOCATION.



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
NORTHERN SAMAR 2ND
DISTRICT ENGINEERING OFFICE
BRGY. SURABUD, LADANG, NORTHERN SAMAR, REGION VII

PROJECT NAME AND LOCATION

CONSTRUCTION OF ONE (1) STOREY,
TWO (2) CLASSROOM SCHOOL BUILDING
IN OLERAS ELEMENTARY SCHOOL,
BARANGAY OLERAS,
LADANG, NORTHERN SAMAR

SHEET CONTENTS

LIGHTING LAYOUT
POWER LAYOUT

DRAFTED

LUCITA AMY MARIE D. ESIDERA
(ARCHITECT)
PREPARED BY
TANA FRANCIS DAINE G. PERFECTO
(ARCHITECT)
FORWARDED & DESIGN SECTION

CHECKED

RYAN H. GILBANG
(ENGINEER ASSOCIATE)
DATE: 20 MAY 2025

SUBMITTED

FIONA A. BARRICADO
(DEPT. PLANNING & DESIGN SECTION)
DATE: 21 MAY 2025

RECOMMENDED

FRANCIS Y. TANALA
(NORTHERN SAMAR DISTRICT ENGINEER)
DATE: 22 MAY 2025

APPROVED

ATTY. ARTHUR ERIC L. SABONG, CE
(DISTRICT ENGINEER)
DATE: 22 MAY 2025

SET NO.

E
1 2

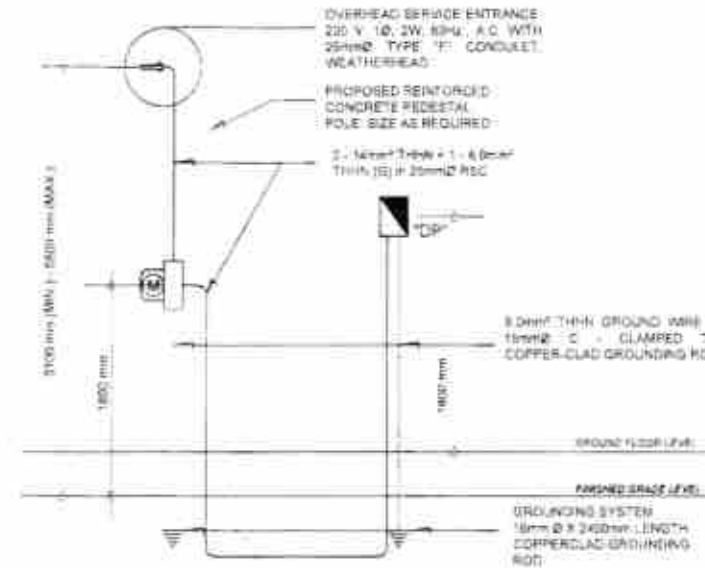
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20 MAY 2025 21 MAY 2025 21 MAY 2025 22 MAY 2025 22 MAY 2025

GENERAL NOTES:

- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (EXCEPT APPLICABLE ORDINANCES, RULES AND REGULATIONS OF THE LOCAL GOVERNMENT) AND WITH THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
- THE TYPE OF SERVICE POWER SUPPLY TO BE USED SHALL BE SINGLE PHASE, 230V, 60 HZ, A.C.
- THE CONTRACTOR SHALL VERIFY AND MARK THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO THE POWER COMPANY SERVICE POINT.
- UNLESS OTHERWISE SPECIFIED, THE MINIMUM SIZE OF WIRE AND GALVANIZED RIGID STEEL CONDUIT TO BE USED SHALL BE 2.5mm² THINW AND 10mm NOMINAL DIAMETER RESPECTIVELY. (EXCEPT ALL ELECTRICAL WIRE SHALL BE COLOR-CODED)
- ALL LIGHTING CIRCUIT HOMERUNS AND CONVENIENCE OUTLETS SHALL BE WIRED WITH NOT LESS THAN 1.1mm² RSC.
- WHEREVER REQUIRED AND NECESSARY, FULL OR JUNCTION BOXES SHALL BE INSTALLED AT CONVENIENT AND INCONSPICUOUS LOCATION, ALTHOUGH SUCH BOXES ARE NOT SHOWN ON THE PLAN NOR MENTIONED IN THE SPECIFICATIONS.
- ALL MOVEMENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE PROPERLY GROUNDING IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE.
- ALL WIRING TO BE USED SHALL BE BRANDED AND OF THE APPROVED TYPE FOR LOCATION AND PURPOSE.
- STANDARD TYPE OF ACCESSORIES, SPACING DEVICES, TERMINATIONS AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.
- ALL WIRE OUTLETS SHALL BE INSTALLED AT THE FOLLOWING HEIGHTS ABOVE THE FINISHED FLOOR LEVEL, UNLESS NOTED IN THE PLAN:
 - WALL SWITCHES @ 1000mm
 - WALL CONVENIENCE OUTLETS @ 300mm
 - WALL FAN OUTLET @ CONVENIENT HEIGHT
- ALL ELECTRICAL WORK SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A duly REGISTERED ELECTRICAL ENGINEER.



ELECTRICAL RISER DIAGRAM

SCHEDULE OF LIGHTING FIXTURES AND LAMPS:

SYMBOLS	DESCRIPTION	INSTALLATION
	ONE (1) 10W, 230V, 60Hz AC, FLUORESCENT LIGHTING FIXTURE, BOX TYPE	SURFACE CEILING MOUNTED
	TWO (2) 10W, 230V, 60Hz AC, FLUORESCENT LIGHTING FIXTURE, BOX TYPE	SURFACE CEILING MOUNTED
	ONE (1) 10W, 230V, 60Hz AC, COMPACT FLUORESCENT LIGHTING FIXTURE WITH MEDIUM BASE REFLECTOR TYPE PORCELAIN RECEPTACLE	SURFACE CEILING MOUNTED

NOTE: ALL FLUORESCENT LIGHTING FIXTURES SHALL BE EQUIPPED WITH A HIGH POWER FACTOR, THE-HAT WITH STARTER AND THERMALLY PROTECTED BALLAST. COMPLETE WITH ALL NECESSARY ACCESSORIES WIRE AND READY FOR USE.

ELECTRICAL SYMBOLS:

	CEILING LIGHT OUTLET
	CEILING LIGHT OUTLET
	CEILING FAN CONTROL SWITCH
	SINGLE POLE WALL SWITCH IN ONE SWITCH PLATE (10 AMP, 230 VOLTS)
	2 SINGLE POLE WALL SWITCHES IN ONE SWITCH PLATE (10 AMP, 230 VOLTS)
	THREE WAY SWITCH
	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 2Ø, 230VOLTS, WP, 1Ø, 2Ø, 3Ø, 4Ø, 5Ø, 6Ø, 7Ø, 8Ø, 9Ø, 10Ø, 11Ø, 12Ø, 13Ø, 14Ø, 15Ø, 16Ø, 17Ø, 18Ø, 19Ø, 20Ø, 21Ø, 22Ø, 23Ø, 24Ø, 25Ø, 26Ø, 27Ø, 28Ø, 29Ø, 30Ø, 31Ø, 32Ø, 33Ø, 34Ø, 35Ø, 36Ø, 37Ø, 38Ø, 39Ø, 40Ø, 41Ø, 42Ø, 43Ø, 44Ø, 45Ø, 46Ø, 47Ø, 48Ø, 49Ø, 50Ø, 51Ø, 52Ø, 53Ø, 54Ø, 55Ø, 56Ø, 57Ø, 58Ø, 59Ø, 60Ø, 61Ø, 62Ø, 63Ø, 64Ø, 65Ø, 66Ø, 67Ø, 68Ø, 69Ø, 70Ø, 71Ø, 72Ø, 73Ø, 74Ø, 75Ø, 76Ø, 77Ø, 78Ø, 79Ø, 80Ø, 81Ø, 82Ø, 83Ø, 84Ø, 85Ø, 86Ø, 87Ø, 88Ø, 89Ø, 90Ø, 91Ø, 92Ø, 93Ø, 94Ø, 95Ø, 96Ø, 97Ø, 98Ø, 99Ø, 100Ø
	SINGLE CONVENIENCE OUTLET, GROUNDING TYPE 2Ø, 230VOLTS, WP, 1Ø, 2Ø, 3Ø, 4Ø, 5Ø, 6Ø, 7Ø, 8Ø, 9Ø, 10Ø, 11Ø, 12Ø, 13Ø, 14Ø, 15Ø, 16Ø, 17Ø, 18Ø, 19Ø, 20Ø, 21Ø, 22Ø, 23Ø, 24Ø, 25Ø, 26Ø, 27Ø, 28Ø, 29Ø, 30Ø, 31Ø, 32Ø, 33Ø, 34Ø, 35Ø, 36Ø, 37Ø, 38Ø, 39Ø, 40Ø, 41Ø, 42Ø, 43Ø, 44Ø, 45Ø, 46Ø, 47Ø, 48Ø, 49Ø, 50Ø, 51Ø, 52Ø, 53Ø, 54Ø, 55Ø, 56Ø, 57Ø, 58Ø, 59Ø, 60Ø, 61Ø, 62Ø, 63Ø, 64Ø, 65Ø, 66Ø, 67Ø, 68Ø, 69Ø, 70Ø, 71Ø, 72Ø, 73Ø, 74Ø, 75Ø, 76Ø, 77Ø, 78Ø, 79Ø, 80Ø, 81Ø, 82Ø, 83Ø, 84Ø, 85Ø, 86Ø, 87Ø, 88Ø, 89Ø, 90Ø, 91Ø, 92Ø, 93Ø, 94Ø, 95Ø, 96Ø, 97Ø, 98Ø, 99Ø, 100Ø
	CONCEALED OR EMBEDDED CONDUIT RUN
	UNDERGROUND OR UNDERFLOOR CONDUIT RUN
	CIRCUIT HOMERUN
	DISTRIBUTION PANELBOARD
	ELECTRIC SERVICE METER
	FLUSH BUTTON, 10 A, 230V, 1500mm ABOVE FINISHED GRADE LINE
	VIBRATING BELL OUTLET, 250mm DIAMETER, 230V, 60 HZ, TO BE INSTALLED @ 500mm BELOW CEILING LINE
	ELECTRIC SERVICE ENTRANCE
	GROUNDING SYSTEM

SCHEDULE OF LOADS AND COMPUTATIONS

DISTRIBUTION PANELBOARD "DP"							
CIRCUIT NO.	LOAD DESCRIPTION	VA PER CIRCUIT	VOLTS	BRANCH CIRCUIT BREAKER			SIZE OF HOMERUN (WIRES IN CONDUIT)
				AF	P	AF	
1	LIGHTING OUTLETS	1200	230	50	2	20	2 - 1.5mm ² THHN + 1 - 1.5mm ² THHN (S) IN 15mm Ø PVC
2	LIGHTING OUTLETS	1200	230	50	2	20	2 - 1.5mm ² THHN + 1 - 1.5mm ² THHN (S) IN 15mm Ø PVC
3	CEILING FAN OUTLETS	720	230	50	2	20	2 - 1.5mm ² THHN + 1 - 1.5mm ² THHN (S) IN 15mm Ø PVC
4	CONVENIENCE OUTLETS	1440	230	50	2	20	2 - 1.5mm ² THHN + 1 - 1.5mm ² THHN (S) IN 15mm Ø PVC
5	SPARE	1500	230	50	2	20	_____
6	SPARE	1500	230	50	2	20	_____
	TOTAL	7560		RACEB - 100A, 2P, 230V, 18KAIC			
COMPUTATIONS:				VA:	A:		
LIGHTING AND POWER (FIRST 10kVA @ 100% DF)				7560			
LIGHTING AND POWER (REMAINDER OVER 10kVA @ 50% DF)				_____		USE - 2 - 14mm ² THHN + 1 - 8mm ² TW (S) IN 25mm Ø RSC	
TOTAL MOTOR LOAD AND SPARE				_____			
TOTAL CONNECTED LOAD				7560		USE - 1-80 A, 230V, 3-POLE MOLDDED CASE CIRCUIT BREAKER	
SERVICE ENTRANCE CONDUCTOR							
TOTAL LOAD + 25% HIGHEST MOTOR APPLIED VOLTAGE					32.87		
SERVICE EQUIPMENT							
TOTAL LOAD + HIGHEST MOTOR RATING + 25% HIGHEST MOTOR VOLTAGE					32.87		

SCHEDULE AND COMPUTATION OF LOADS

NOT TO SCALE



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BARANGAY OLERAS,
LAGANG, NORTHERN SAMAR

SHEET CONTENTS
GENERAL NOTES
ELECTRICAL SYMBOLS
SCHEDULE OF LOADS
ELECTRICAL RISER DIAGRAM

DRAFTED
LUCITA AND MARIE D. ESIDERA
PROJECT
TARA FRANCIS DIANE G. PERFECTO
DATE
PLANNING & DESIGN SECTION

CHECKED
RYAN H. GALLANO
DATE
ELECTRICAL DESIGN SECTION

SUBMITTED
FIONA A. BUNCIADO
DATE
DESIGN & DESIGN SECTION

RECOMMENDED
FRANCISCO Y. TARALA
DATE
DESIGN & DESIGN SECTION

APPROVED
ATTY. ARTHUR ERIC L. SABONO, CE
DATE
DISTRICT ENGINEER

SET NO. 1
SHEET NO. 30

20 MAY 2025

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22 MAY 2025