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REPUBLIC OF THE PHILIPPINES

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

REGIONAL OFFICE IX

ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE

PAGADIAN CITY

C.Y. 2025 PROJECT

DETAILED ENGINEERING DESIGN PLAN FOR

CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL

BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SUBMITTED:

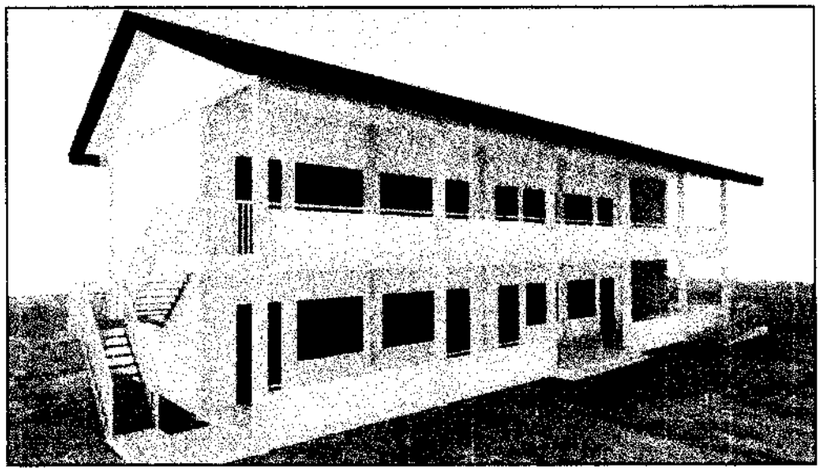
BRIAN R. VILLANUEVA
CHIEF, PLANNING AND DESIGN SECTION
DATE: 07/28/25

RECOMMENDED:

MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 07/29/25

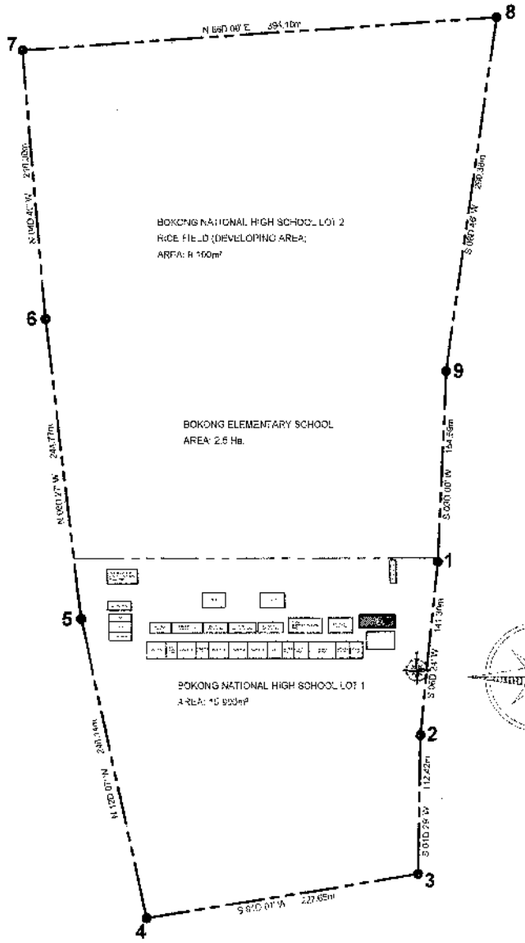
APPROVED:

PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE: 07/29/25

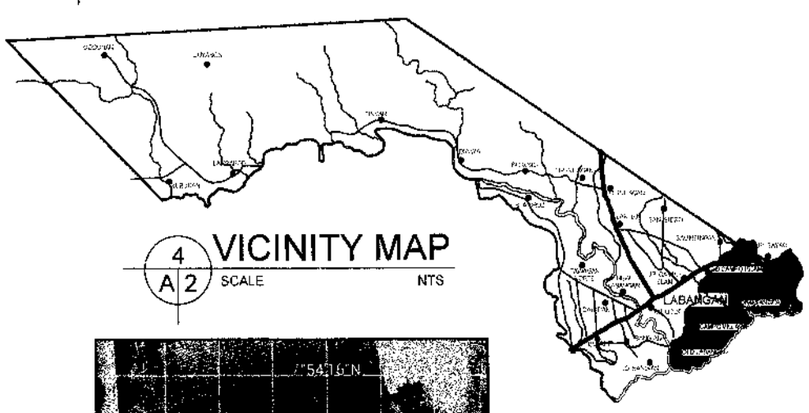


LINE	BEARING	DISTANCE
LINE 1 - 2	S 06D 24' W	141.30m
LINE 2 - 3	S 01D 29' W	112.42m
LINE 3 - 4	S 81D 01' W	227.65m
LINE 4 - 5	N 12D 07' W	248.14m
LINE 5 - 6	N 06D 27' W	244.77m
LINE 6 - 7	N 04D 40' W	218.30m
LINE 7 - 8	N 86D 09' E	394.10m
LINE 8 - 9	S 08D 46' W	290.38m
LINE 9 - 1	S 03D 00' W	154.69m
LOT NO.: 87216		
TOTAL LOT AREA: 218, 279m²		

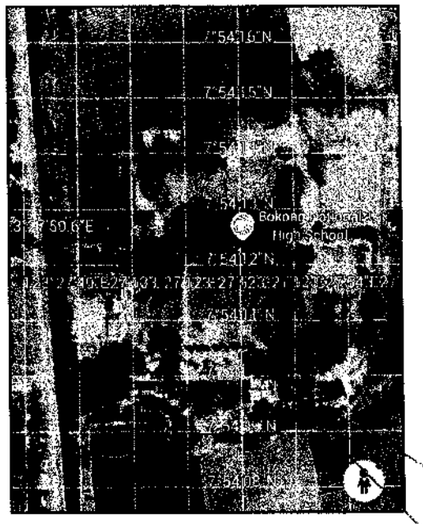
1 A 2 PERSPECTIVE
SCALE NTS



2 A 2 SITE DEVELOPMENT PLAN
SCALE 1:5000



4 A 2 VICINITY MAP
SCALE NTS



3 A 2 LOCATION PLAN
SCALE NTS

TABLE OF CONTENTS

ARCHITECTURAL

A-1 -COVER PAGE
A-2 -PERSPECTIVE
-SITE DEVELOPMENT PLAN
-LOCATION PLAN
-VICINITY MAP
-TABLE OF CONTENTS
A-3 -GROUND FLOOR PLAN
A-4 -SECOND FLOOR PLAN
A-5 -FRONT ELEVATION
A-6 -REAR ELEVATION
A-7 -RIGHT SIDE ELEVATION
A-8 -LEFT SIDE ELEVATION
A-9 -LONGITUDINAL SECTION
A-10 -CROSS SECTION
A-11 -GROUND FLOOR REFLECTED CEILING PLAN
A-12 -SECOND FLOOR REFLECTED CEILING PLAN
A-13 -ROOF PLAN
A-14 -PERSPECTIVE (CEILING)
A-15 -SECTION (CEILING)
SPOT DETAIL (CORNER CLG.)
-SPOT DETAIL
A-16 -SECTION DETAIL (EAVES)
A-17 -SPOT DETAIL (EAVES)
-CONCRETE SUN BREAKER DETAIL
-VENT DETAILS
A-18 -DETAIL PLAN OF RAMP
-DETAIL ELEVATION OF RAMP
A-19 -DETAIL SECTION OF RAMP
-SPOT DETAILS
A-20 -DETAIL SECTION
-BALCONY RAILING DETAIL
A-21 -DETAIL PLAN OF STAIR AT 2ND FLOOR
-DETAIL PLAN OF STAIR AT GROUND FLOOR
A-22 -DETAIL SECTION OF STAIR
A-23 -DETAIL PLAN OF FIRE ESCAPE STAIR
A-24 -DETAIL ELEVATION OF FIRE ESCAPE OF STAIR
A-25 -SECTION DETAIL
-NOSING DETAIL
-HANDRAIL DETAIL
A-26 -CRASH RAILING
-SPOT DETAILS
-BALCONY RAILING DETAIL
A-27 -DET. PLAN OF TOILET AT GROUND FLOOR
A-28 -DET. PLAN OF TOILET AT 2ND FLOOR
A-29 -DET. SECTION OF TOILET (GROUND & 2ND)
-DETAIL OF COUNTER SINK
-SECTION AND DET. (URINAL TROUGH)
A-30 -DET. SECTION 2 (COUNTER SINK)
-DETAIL SECTION
A-31 -BAY SECTION (ALONG TOILETS)
A-32 -BAY SECTION (ALONG CORRIDOR)
A-33 -BLACKBOARD DETAIL
A-34 -BLACKBOARD DETAIL
-SPOT DET. SECTION (EDGE FRAMING)
-SECTION
A-35 -CONNECTION SECTION DETAIL
-CHALK DUST BOX DETAIL
A-36 -SCHEDULE OF DOORS AND WINDOWS
A-37 -SCHEDULE OF DOORS AND WINDOWS
A-38 -SCHEDULE OF DOORS AND WINDOWS
-TYP. PLAN DETAIL (GLASS JALOUSIE)
-TYP. DETAIL SECTION (GLASS JALOUSIE)
A-39 -TYP. OF WINDOW GRILL FOR W-2
-TYP. OF DETAIL OF DOOR FRAME
A-40 -DPWH STANDARD PROJECT BILLBOARD

STRUCTURAL

S-1 -GENERAL NOTES AND STANDARD DETAILS
S-2 -GENERAL NOTES AND STANDARD DETAILS
S-3 -STANDARD DETAILS
S-4 -STANDARD DETAILS
S-5 -STANDARD DETAILS
S-6 -STANDARD DETAILS
S-7 -STANDARD DETAILS
S-8 -FOUNDATION PLAN
S-9 -2ND FLOOR FRAMING PLAN
S-10 -SCHEDULE OF FOOTING
-TYPICAL FOOTING DETAIL
S-11 -PLAN FOOTING F-1
-PLAN FOOTING F-2 OR F-3
S-12 -DETAIL OF WALL FOOTINGS
-DETAIL OF WALL ON FTB
S-13 -ELEV. FOOTING F-1
-ELEV FOOTING F-2 OR F-3
S-14 -COLUMN SCHEDULE
S-15 -TYPICAL DETAIL OF R.C COLUMN
S-16 -SCHEDULE OF SLABS
-TYPICAL SLAB ELEVATION
-TYPICAL SEAM ELEVATION
S-17 -BEAM SCHEDULE
S-18 -ROOF FRAMING PLAN
S-19 -DETAILS
-CONCRETE SUN BREAKER DETAIL
S-20 -CONNECTION OF PURLINS TO LRB-1
-DET. SECTION OF LRB-1 AND PC-1
-STIFFENER DETAIL
S-21 -ELEV. OF END WALL FRAME
S-22 -SCHEDULE OF TRUSSES MEMBERS AND WELDS
-TRUSS - 1 ELEVATION
-WELD DETAIL
S-23 -DETAIL 1
-DETAIL 2
-DETAIL
-CONN. OG G.I. SHEET ROOFING TO PURLIN
-DETAIL CONN. OF CROSS BRACING
S-24 -DETAIL 3
-DETAIL 4
-TRUSS - BEAM CONNECTION DETAIL
S-25 -DETAIL
S-26 -RAMP DETAIL
-DET. OF STAIR ON GRADE
-DETAIL
S-27 -STAIR FRAMING PLAN
-SPOT DETAILS
S-28 -SECTION OF STAIR SLAB
DET. OF DC-1 (FR. LANDING TO 2ND FLR. LVL.)
-SPOT DETAIL
S-29 -STAIR SECTION DETAIL
S-30 -FIRE ESCAPE FRAMING PLAN
S-31 -FIRE ESCAPE ELEVATION (A-A)
S-32 -FIRE ESCAPE ELEVATION (B-B)
-FIRE ESCAPE ELEVATION (C-C)
S-33 -DETAILS
S-34 -PLAN IN-BETWEEN LANDING
-DETAILS
S-35 -DETAIL
-SECTION A-A
S-36 -SECTION B-B
S-37 -SECTION C-C

ELECTRICAL

E-1 -GROUND FLOOR POWER LAYOUT
E-2 -SECOND FLOOR POWER LAYOUT
E-3 -GROUND FLOOR LIGHTING LAYOUT
E-4 -SECOND FLOOR LIGHTING LAYOUT
E-5 -GENERAL NOTES
-PANEL BOARD DIAGRAM
-FLUORESCENT LIGHT FIXTURE MOUNTING DET.
E-6 -LOAD SCHEDULE
-ELECTRICAL RISER DIAGRAM

PLUMBING

P-1 -GROUND FLOOR PLUMBING LAYOUT
P-2 -2ND FLOOR PLUMBING LAYOUT
P-3 -GROUND FLOOR WATER LINE LAYOUT
P-4 -2ND FLOOR WATER LINE LAYOUT
P-5 -ROOF DRAINAGE LAYOUT
P-6 -GROUND FLR. ISOMETRIC WATER LINE LAYOUT
P-7 -2ND FLOOR ISOMETRIC WATER LINE LAYOUT
P-8 -GROUND FLR. ISOMETRIC SEWER LINE LAYOUT
P-9 -2ND FLOOR ISOMETRIC SEWER LINE LAYOUT
P-10 -ISOMETRIC DRAINAGE LINE LAYOUT
P-11 -SPOT DETAIL
-DETAIL SECTION OF DRAIN PIPE
P-12 -CROSS SECTION DETAIL
-MANHOLE COVER DETAIL
P-13 -PLAN DET. OF SEPTIC TANK
P-14 -LONGITUDINAL SECTIONAL DETAIL
P-15 -LEGEND
-PLUMBING NOTES
-CATCH BASIN DETAIL

REPUBLIC OF THE PHILIPPINES

OFFICE OF THE CITY/
MUNICIPAL ENGINEER/
BUILDING OFFICIAL

DISTRICT/CITY/MUNICIPALITY

LAND USE & ZONING

LINE & GRADE

ARCHITECTURAL

STRUCTURAL

SANITARY

ELECTRICAL

MECHANICAL

MUNICIPAL MAYOR

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED:
DIXIE HANNAH LOU D. SARMIENTO
ARCHITECT II
DATE: 07/24/25

REVIEWED:
GRACE Y. COMALING
ENGINEER II
ASST. CHIEF PLANNING AND DESIGN SECTION
DATE: 07/25/25

SUBMITTED:
BRIAN R. VILLANUEVA
ENGINEER III
CHIEF, PLANNING AND DESIGN SECTION
DATE: 07/28/25

RECOMMENDED:
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 07/29/25

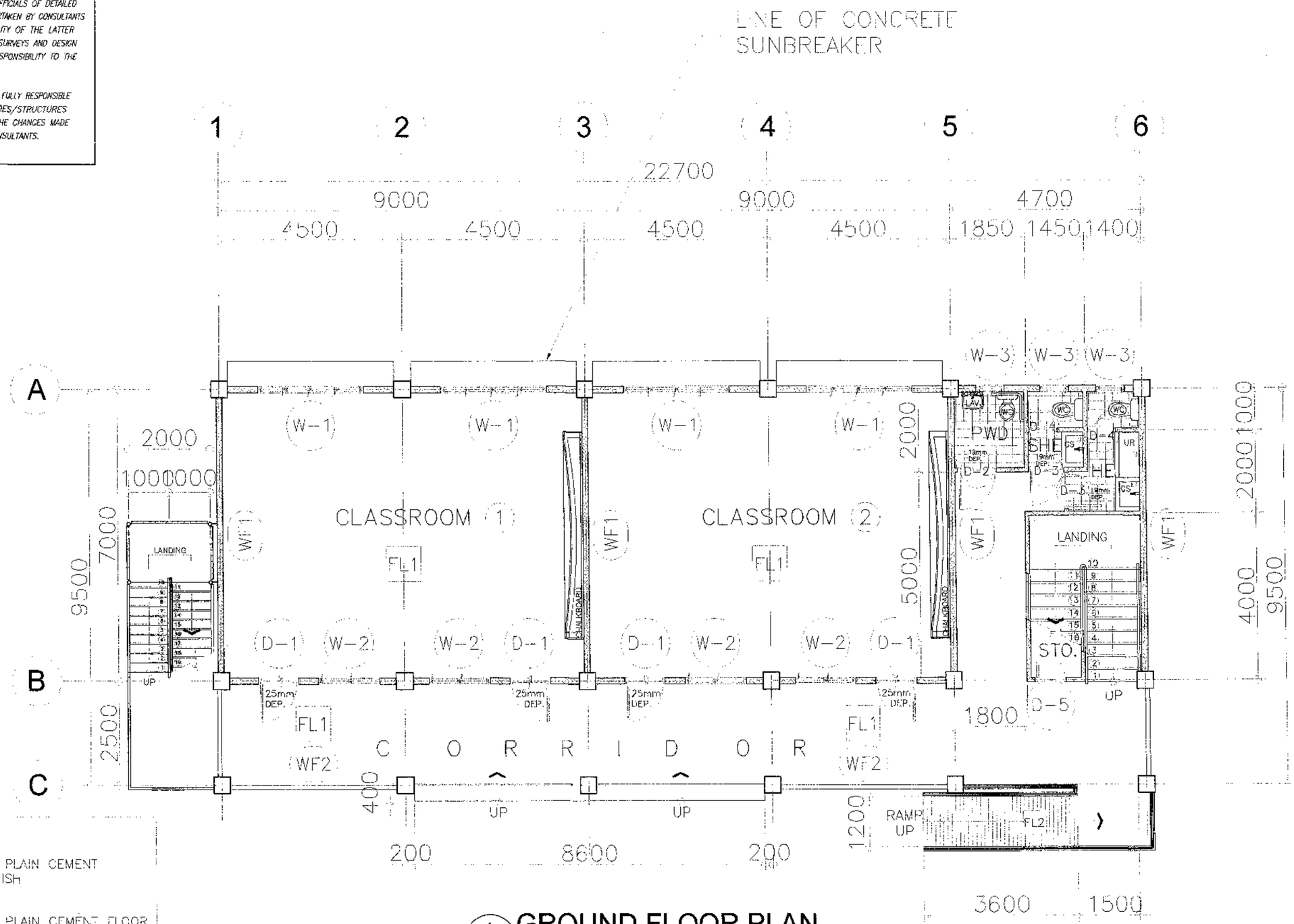
APPROVED:
PABLO L. ESCUADRO, CPA
DISTRICT ENGINEER
DATE: 07/29/25

SET NO: 02 A 40
SHEET NO: 02 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



FLOORS :

FL1	NON SKID PLAIN CEMENT FLOOR FINISH
FL2	NON SKID PLAIN CEMENT FLOOR ROUGH FINISH W/ GROOVES
FL3	200x200 VITRIFIED FLOOR TILES (UNGLAZED)

1 / A3 **GROUND FLOOR PLAN**

SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**

SHEET CONTENTS: • AS SHOWN

PREPARED: **DIXIE HANNAH LOU C. SARMIENTO**, ARCHITECT II — DATE: 07/29/25

REVIEWED: **GRACE Y. COMALING**, ENGINEER III, ASST. CHIEF, PLANNING AND DESIGN SECTION — DATE: 07/29/25

SUBMITTED: **BRIANNA VILLANUEVA**, ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION — DATE: 7/29/25

RECOMMENDED: **MARIA U. FLOREN**, ASSISTANT DISTRICT ENGINEER — DATE: 07/29/25

APPROVED: **PABLO L. ESCUADRO, MPA**, DISTRICT ENGINEER — DATE: 07/29/25

SET NO: 03 / A 40

SHEET NO.: 03 / 98

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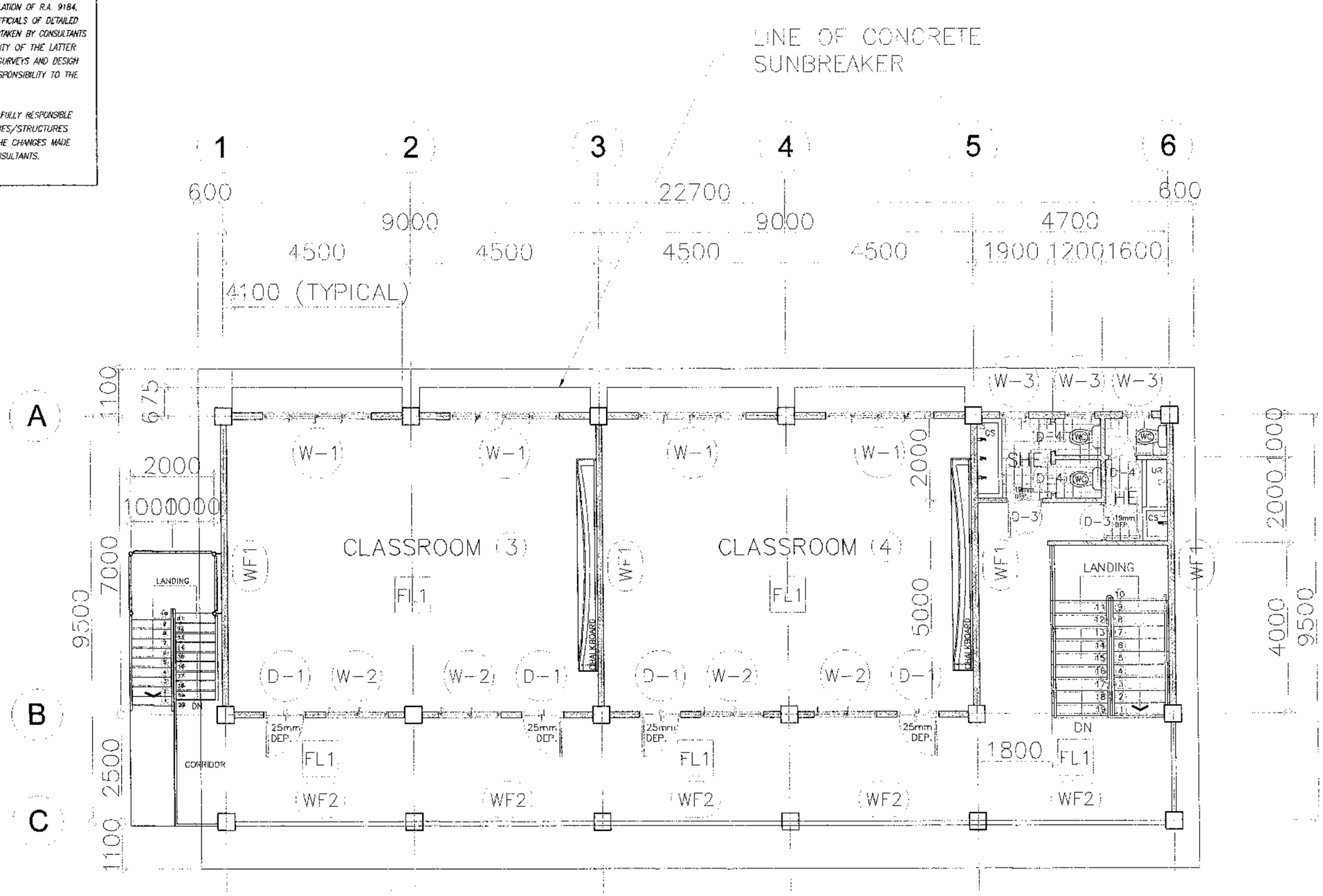

1/A4 SECOND FLOOR PLAN

SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS** REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**	SHEET CONTENTS • AS SHOWN	PREPARED: **DIXIE HANNAH LOU C. SARMIENTO** ARCHITECT II DATE: 09/24/25	REVIEWED: **GRACE Y. COMALING** ENGINEER I ASST. CHIEF, PLANNING AND DESIGN SECTION DATE: 09/29/25	SUBMITTED: **GUIAN E. VILLANUEVA** ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE: 09/29/25	RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE: 09/29/25	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE: 09/29/25	SET NO. 04 A 40	SHEET NO. 04 98

NOTE:

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THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

SCHEDULE OF FINISHES

FLOORS :

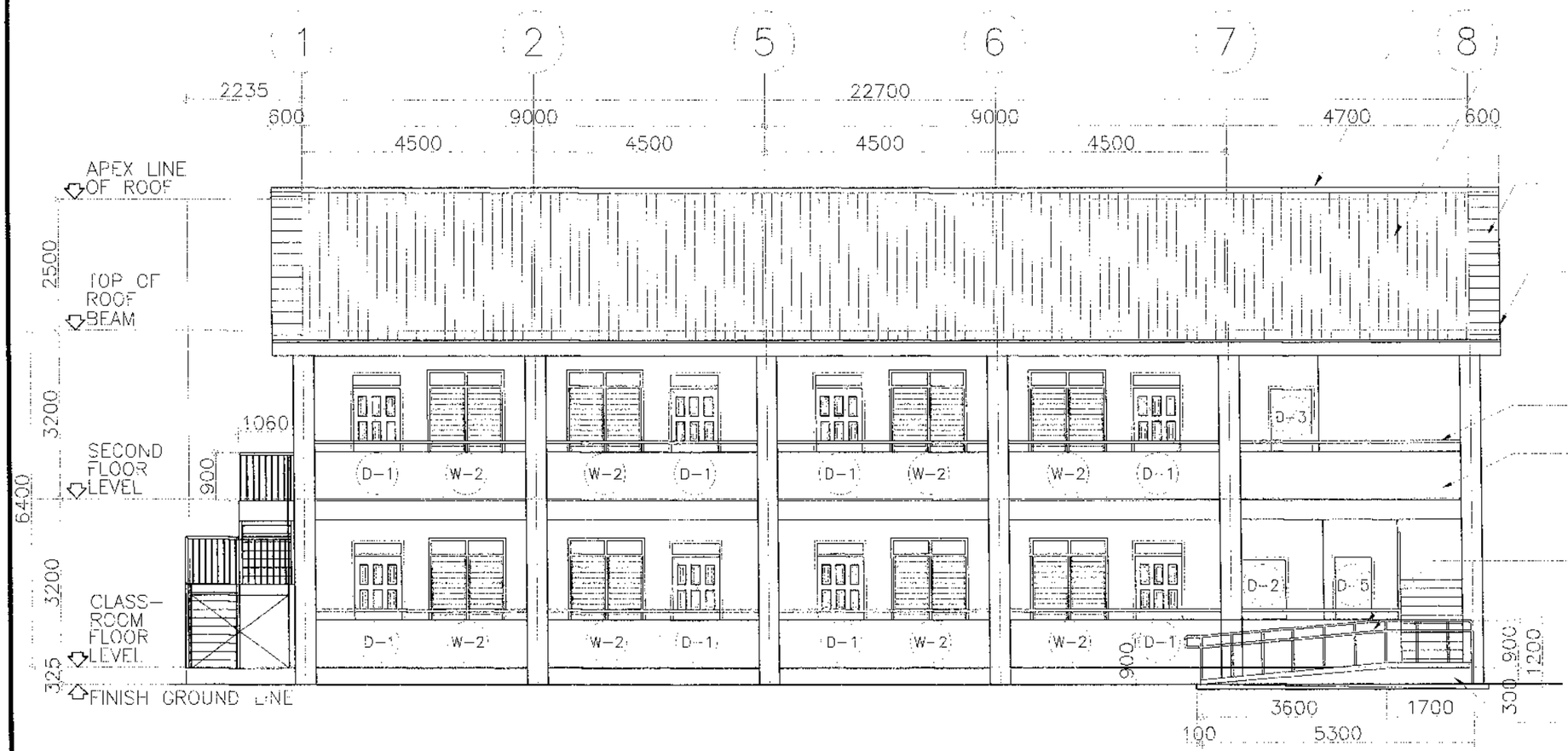
- FL1 — NON SKID PLAIN CEMENT FLOOR FINISH
- FL2 — NON SKID PLAIN CEMENT FLOOR ROUGH FINISH W/ GROOVES
- FL3 — 200x200 VITRIFIED FLOOR TILES (UNGLAZED)

WALLS :

- WF1 — 150mm THK. CHB W/ PLAIN CEMENT PLASTER (PAINT FINISH)
- WF2 — 100mm THK. CHB PLAIN CEMENT PLASTER W/ 50mmø G.I. PIPE HANDRAIL (PAINT FINISH)
- WF3 — 150mm THK. CHB W/ 200x200mm VITRIFIED WALL TILES (GLAZED)
- WF4 — 100mm THK. CHB W/ 200x200 mm VITRIFIED WALL TILES (GLAZED)

CEILING FINISHES :

- CL1 — EXPOSED UNDERSIDE OF CONCRETE SLAB (WITH PAINT FINISH)
- CL2 — 4.5mm THICK FIBER CEMENT BOARD (PAINTED) ON METAL FURRING CHANNELS @ 400mm O.C.



0.60mm THK. (BASE METAL THICKNESS) PRE-PAINTED PRE-FORMED RIDGE ROLL

0.40mm THICK (BASE METAL THICKNESS) LONG SPAN PRE-PAINTED G.I. ROOFING SHEETS WITH TOTAL COATED THICKNESS OF 0.50mm THICK.

ANGULAR BAR 40 x 40 x 5 x 500mm ON EVERY PURLINS

0.60mm THK. (BASE METAL THICKNESS) PREFORMED, PRE-PAINTED G.I. FLASHING SHEET WITH 12 x 300mm FIBER CEMENT FASCIA BOARD (PAINT FINISH)

50mmø G.I. PIPE HANDRAIL (PAINT FINISH), TYPICAL

100mm THK. CHB RAILING, (TYPICAL) W/ PAINTED FINISH

38mmø G.I. PIPE HANDRAIL w/ 32mmø VERT. SUPPORT @ 600mm O.C. (PAINT FINISH)

PWD RAMP (SEE DETAIL)

1/A5 FRONT ELEVATION

SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED	REVIEWED	SUBMITTED	RECOMMENDED	APPROVED
DIXIE ANNH LOU C. SARMIENTO, ARCHITECT II	GRACE Y. COMALING, ENGINEER II, ASST. CHIEF PLANNING AND DESIGN SECTION	BRIAN P. VILLANUEVA, ENGINEER III, CHIEF PLANNING AND DESIGN SECTION	MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER	PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER
DATE: 07/29/25	DATE: 07/28/25	DATE: 07/28/25	DATE: 07/29/25	DATE: 07/29/25

SET NO. 05 A40 | SHEET NO. 05 98

NOTE:

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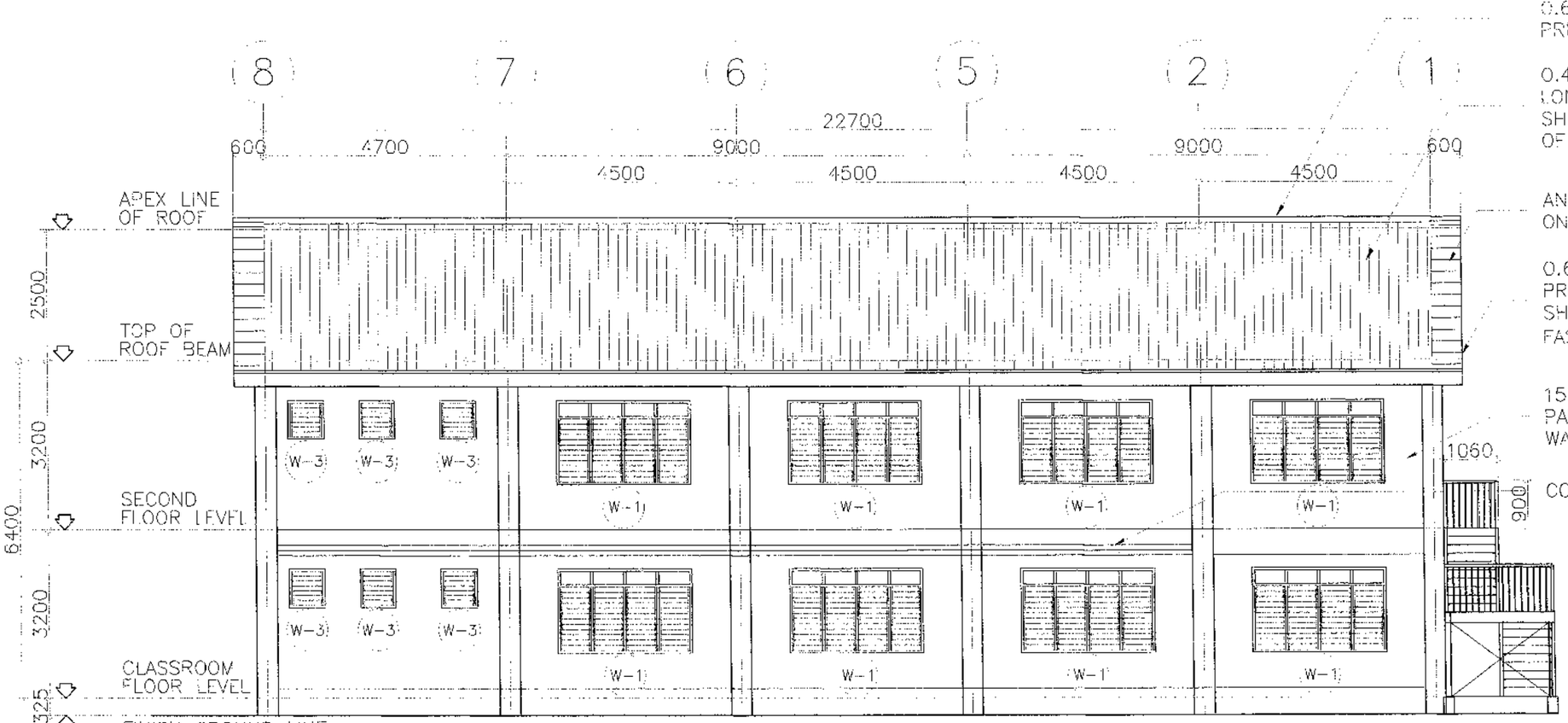

1 / A6 REAR ELEVATION

SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES
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REGIONAL OFFICE IX
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PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED: DIXIE [illegible] LOU C. SARMIENTO, ARCHITECT II, DATE: 04/24/25

REVIEWED: GRACE V. COMALING, ENGINEER II, ASST CHIEF, PLANNING AND DESIGN SECTION, DATE: 04/29/25

SUBMITTED: BRIAN A. [illegible], ENGINEER III, CHIEF PLANNING AND DESIGN SECTION, DATE: 04/29/25

RECOMMENDED: MATHAU. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE: 04/29/25

APPROVED: PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER, DATE: 05/29/25

SET NO. 06 A40 | SHEET NO. 06 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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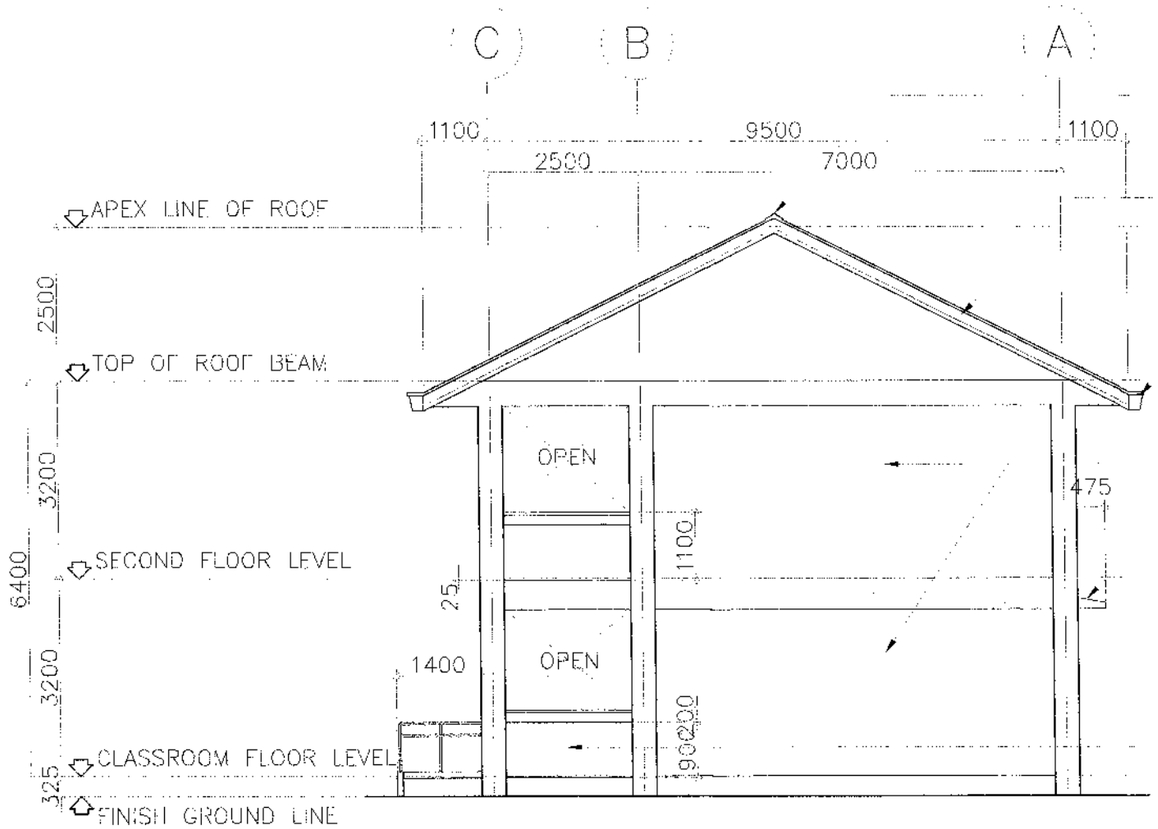

0.60mm THK. (BASE METAL THICKNESS) PRE-PAINTED PRE-FORMED RIDGE ROLL

0.40mm THICK (BASE METAL THICKNESS) LONG SPAN PRE-PAINTED G.I. ROOFING SHEETS WITH TOTAL COATED THICKNESS OF 0.50mm THICK.

0.60mm THK. (BASE METAL THICKNESS) PREFORMED, PRE-PAINTED G.I. GUTTER WITH 12 x 300mm FIBER CEMENT FASCIA BOARD (PAINT FINISH)

150mm THK. CHB WALL WITH PAINTED PLAIN CEMENT PLASTER WALL FINISH

SEE SUNBREAKER DETAILS

100mm THK. CHB RAILING WITH 50mmø G.I. PIPE HANDRAIL (PAINT FINISH)

1/A7 RIGHT SIDE ELEVATION

SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
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SHEET CONTENTS:
- AS SHOWN

PREPARED:
DIXIE HANNAH LOU C. SARMIENTO
ARCHITECT II
DATE: 09/24/25

REVIEWED:
GRACE Y. COMALING
ENGINEER III
ASST. CHIEF, PLANNING AND DESIGN SECTION
DATE: 09/25/25

BRIAN R. VILLANUEVA
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DATE: 09/25/25

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ASSISTANT DISTRICT ENGINEER
DATE: 09/29/25

APPROVED:
PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE: 09/29/25

SET NO. 07 | A 40
SHEET NO. 07 | 98

NOTE:

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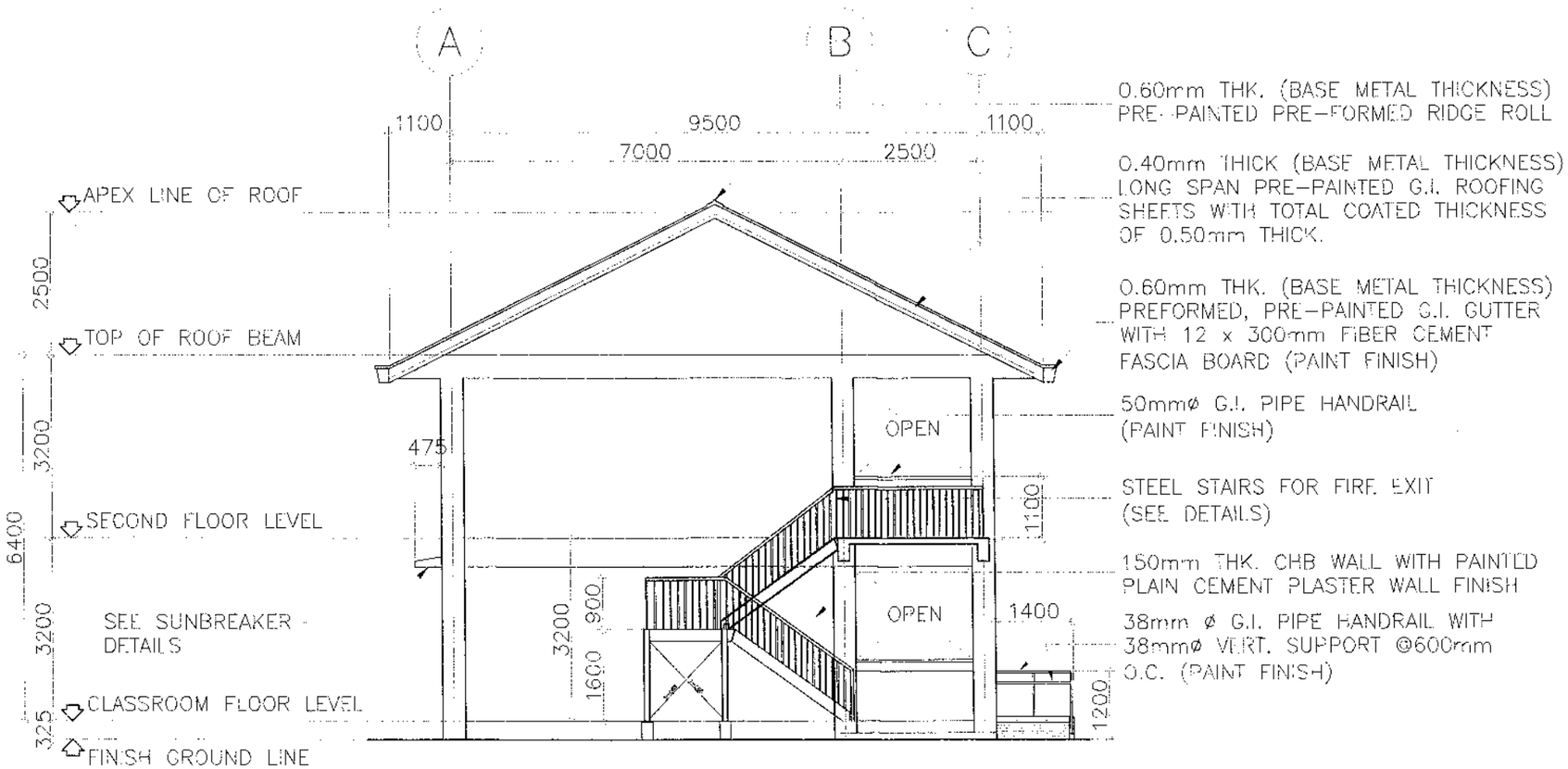

1/A8 LEFT SIDE ELEVATION

SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS** REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED **DIXIE HANNAH LOUIC SARMIENTO** ARCHITECT I DATE: 04/24/25	REVIEWED: **GRACE Y. COMALING** ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE: 04/24/25	SUBMITTED: **BRIAN B. VILLANUEVA** ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE: 04/29/25	RECOMMENDED **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE: 04/29/25	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE: 04/29/25	SET NO 08 A 40	SHEET NO. 08 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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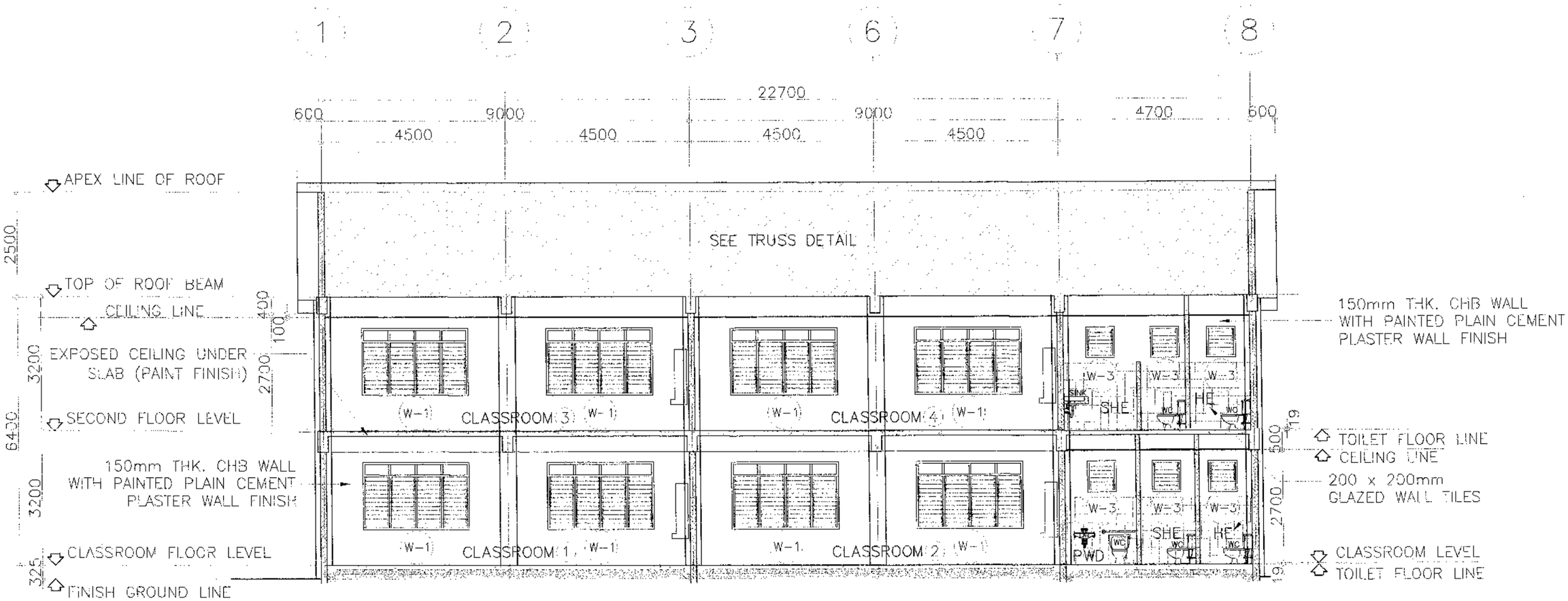

1/A9 LONGITUDINAL SECTION

SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED: DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT II, DATE: 04/24/25

REVIEWED: GRACE Y. COMALING, ENGINEER II, ASST. CHIEF, PLANNING AND DESIGN SECTION, DATE: 04/27/25

SUBMITTED: BRIAN B. VILLALUEVA, ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION, DATE: 04/28/25

RECOMMENDED: MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE: 04/29/25

APPROVED: PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER, DATE: 04/29/25

SET NO. 09 | SHEET NO. A 40 | 09 | 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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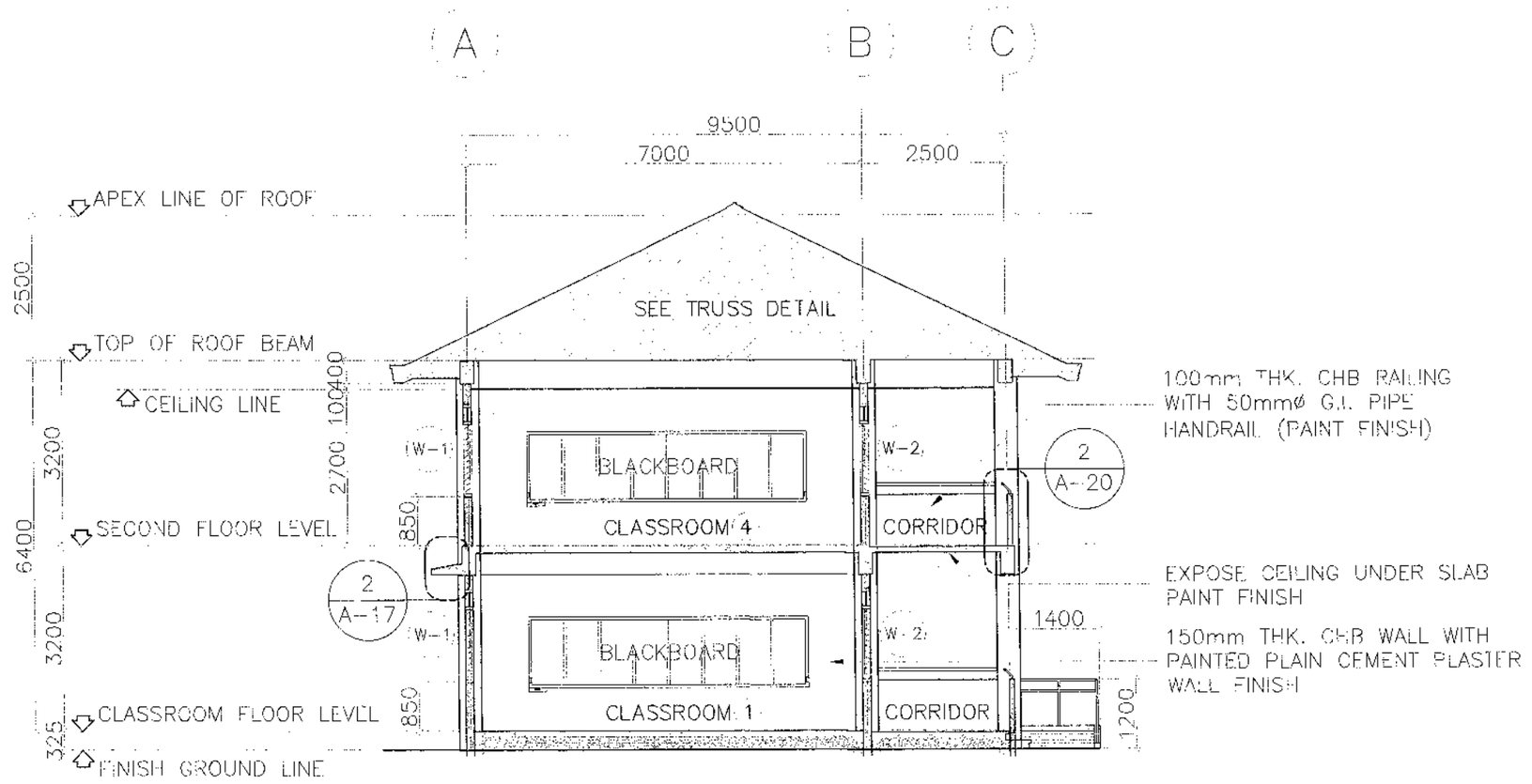

1 / A10 **CROSS SECTION**

SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**

SHEET CONTENTS: • AS SHOWN

PREPARED: **DIXIE HANNAH LOUIC. SARMIENTO**, ARCHITECT II, DATE: 04/24/25

REVIEWED: **GRACE V. COMALING**, ENGINEER III, ASST. CHIEF, PLANNING AND DESIGN SECTION, DATE: 04/28/25

SUBMITTED: **BRIAN F. VILLANDEVA**, ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION, DATE: 04/28/25

RECOMMENDED: **MARIA U. FLOREN**, ASSISTANT DISTRICT ENGINEER, DATE: 04/29/25

APPROVED: **PABLO L. ESCUADRO, MBA**, DISTRICT ENGINEER, DATE: 04/29/25

SET NO. 10 / A 40

SHEET NO. 10 / 98

CEILING FINISHES :

CL1 — EXPOSED UNDERSIDE OF CONCRETE SLAB (WITH PAINTED FINISH)

CL2 — 4.5mm THICK FIBER CEMENT BOARD (PAINTED) ON METAL FURRING CHANNELS @ 400mm O.C.

NOTE:

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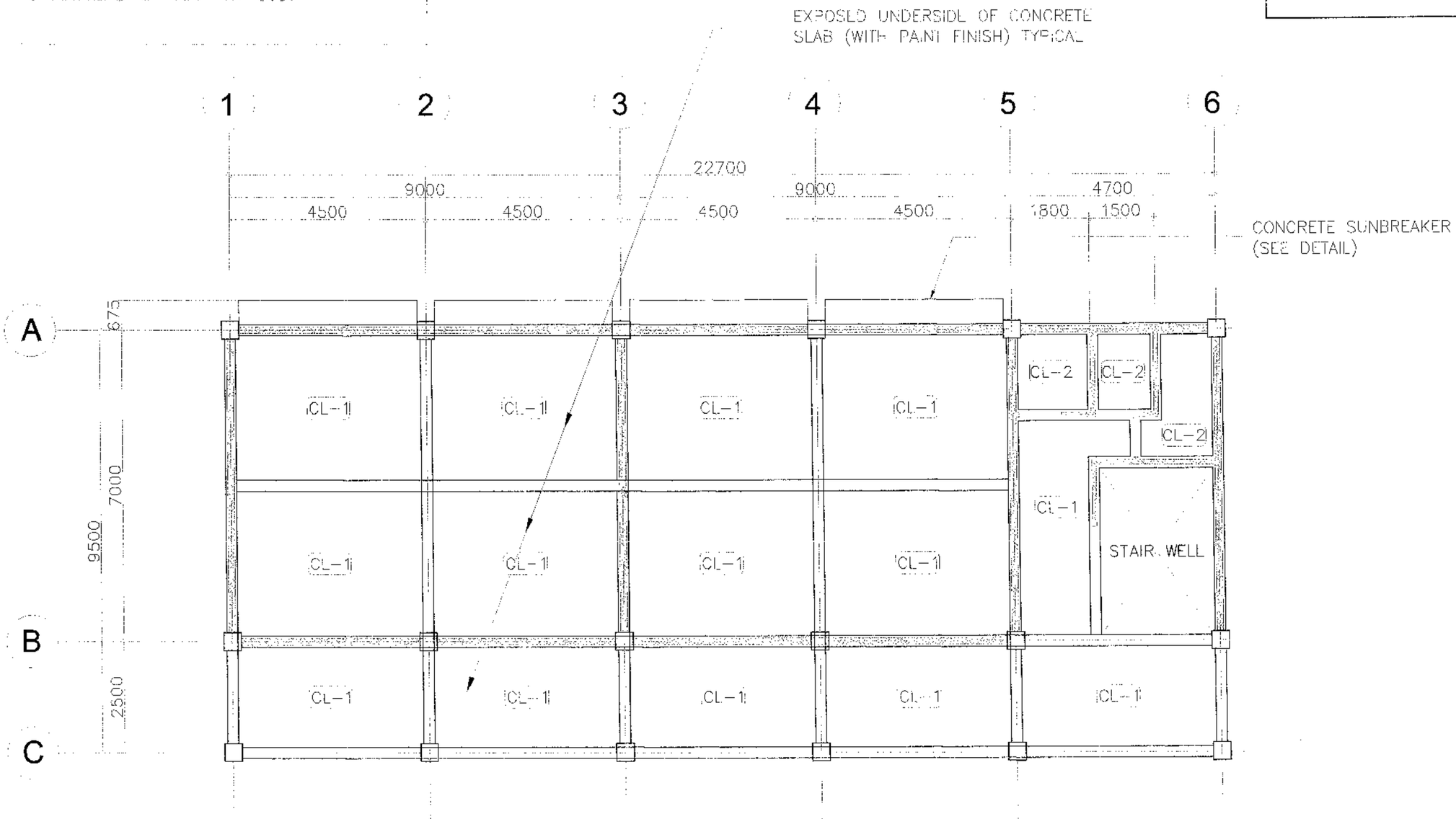

GROUND FLOOR REFLECTED CEILING PLAN

1 / A11 SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABASANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED	APPROVED
DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT II, DATE: 04.21.25	GRACE Y. COMALING, ENGINEER I, ASST. CHIEF PLANNING-DESIGN SECTION, DATE: 04.21.25	BRIAN R. VILLANUEVA, ENGINEER II, CHIEF PLANNING-DESIGN SECTION, DATE: 04.28.25	MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE: 04.29.25	PABLO L. ESCUADRO JR., DISTRICT ENGINEER, DATE: 04.29.25

SET NO.	SHEET NO.
11 / A40	11 / 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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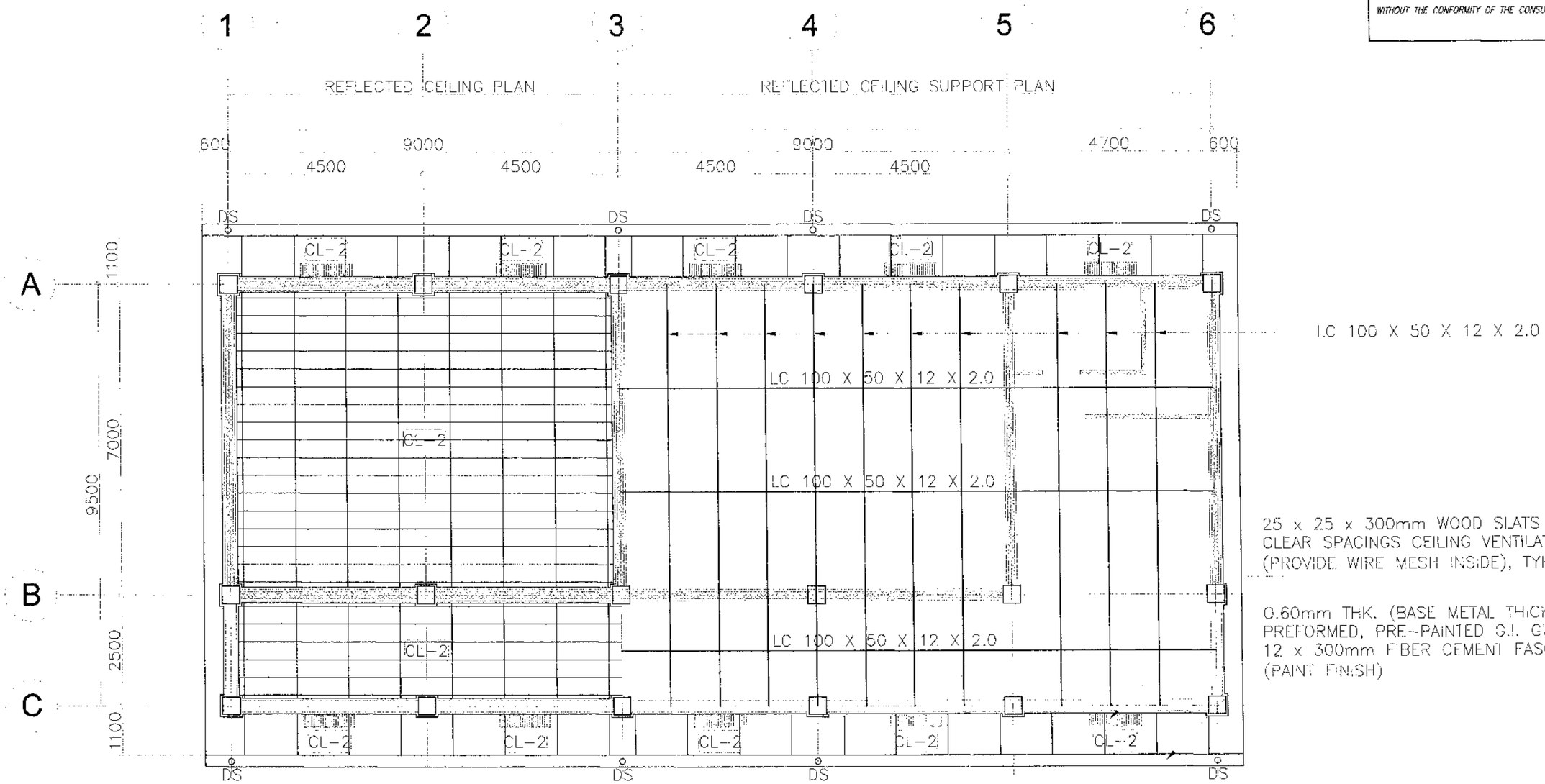

25 x 25 x 300mm WOOD SLATS @ 25mm CLEAR SPACINGS CEILING VENTILATION (PROVIDE WIRE MESH INSIDE), TYPICAL

0.60mm THK. (BASE METAL THICKNESS) PREFORMED, PRE-PAINTED G.I. GUTTER WITH 12 x 300mm FIBER CEMENT FASCIA BOARD (PAINT FINISH)

1/A12 SECOND FLOOR REFLECTED CEILING PLAN

SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:
DIXIE ANNAH LOU C. SARMIENTO ARCHITECT IV DATE 04/24/25	GRACE Y. COMALING ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE 04/29/25	BRIAN R. VILLANUEVA ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE 04/29/25	MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE 04.29.25	PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE 04.29.25

SET NO.	SHEET NO.
12 A 40	12 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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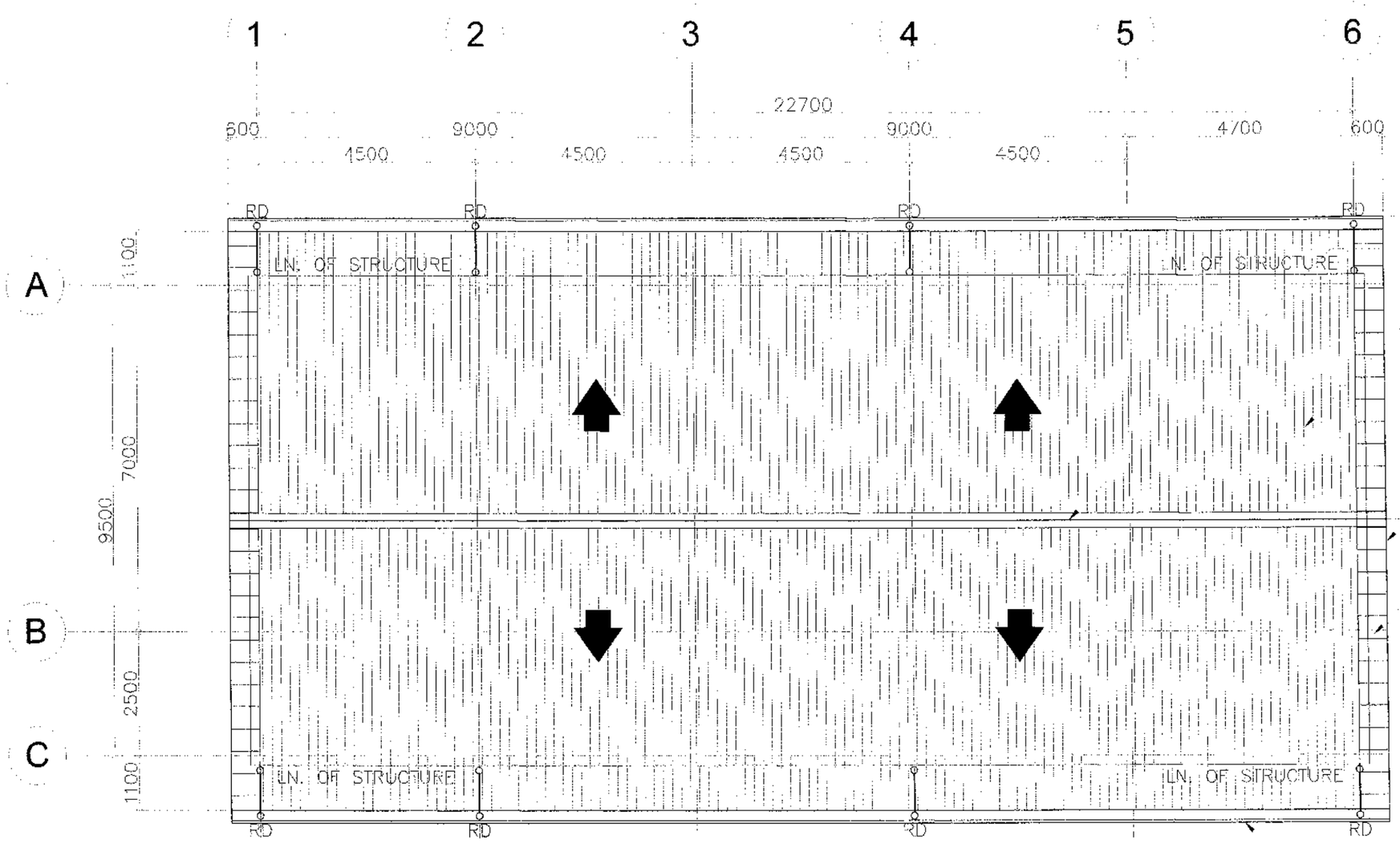

1 A13 ROOF PLAN

SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED: **DIXIE HANNAH LOUIE SARMIENTO**, ARCHITECT III — DATE: 07/24/25

REVIEWED: **GRACE Y. COMALING**, ENGINEER II, ASST. CHIEF PLANNING AND DESIGN SECTION — DATE: 07/28/25

SUBMITTED: **BRIAN RUDY ANUEVA**, ENGINEER III, CHIEF PLANNING AND DESIGN SECTION — DATE: 07/28/25

RECOMMENDED: **MARIA D. FLOREN**, ASSISTANT DISTRICT ENGINEER — DATE: 07/29/25

APPROVED: **PABLO L. ESCUADRO, MPA**, DISTRICT ENGINEER — DATE: 07/29/25

SET NO. 13 A40 | SHEET NO. 13 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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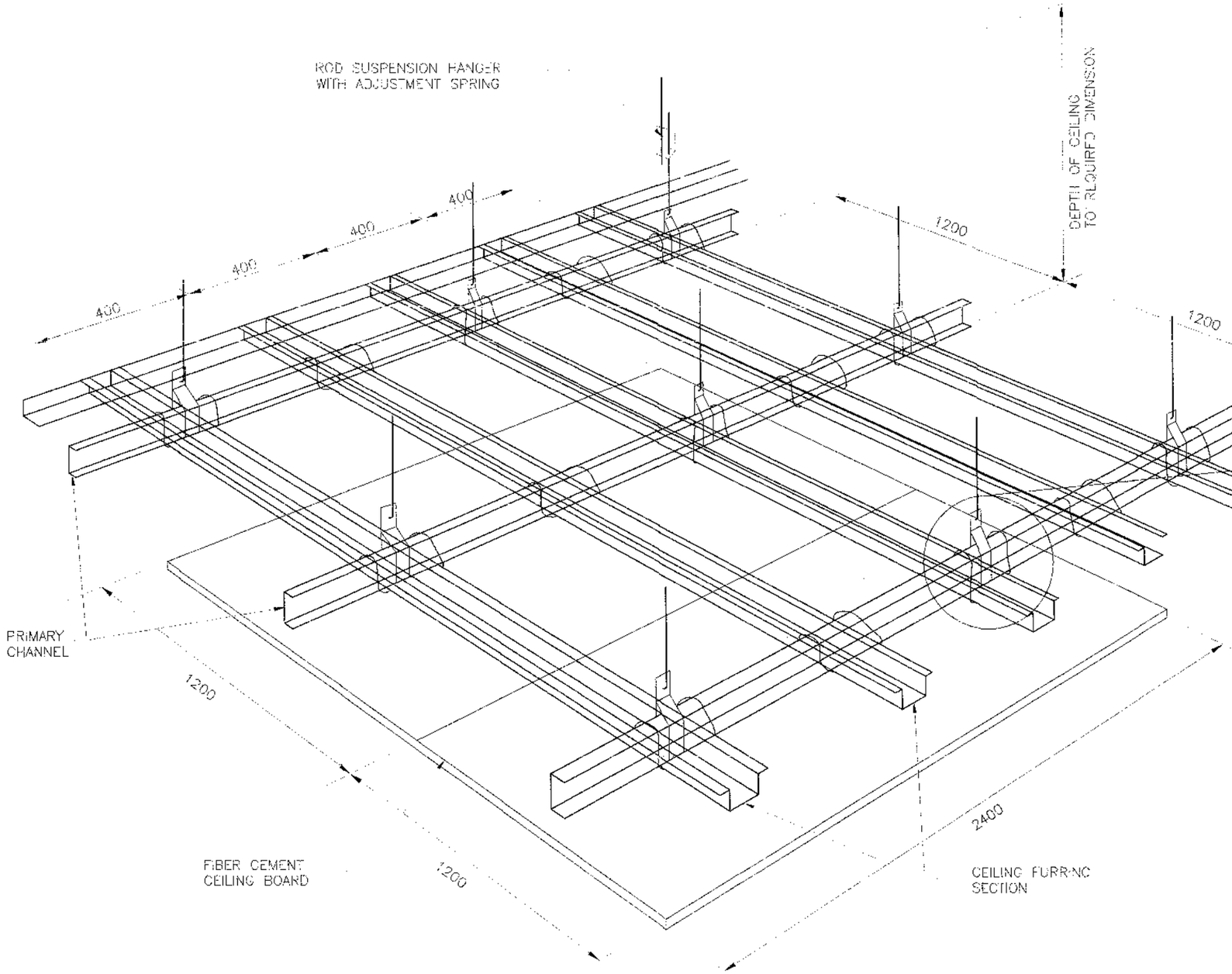
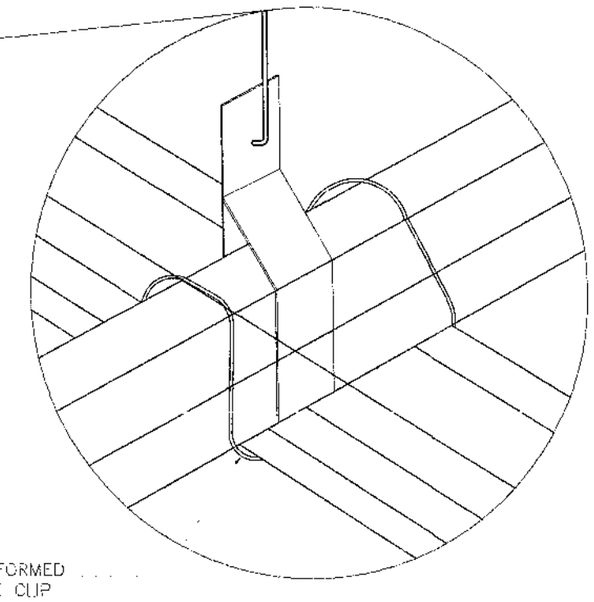




SPOT DETAIL

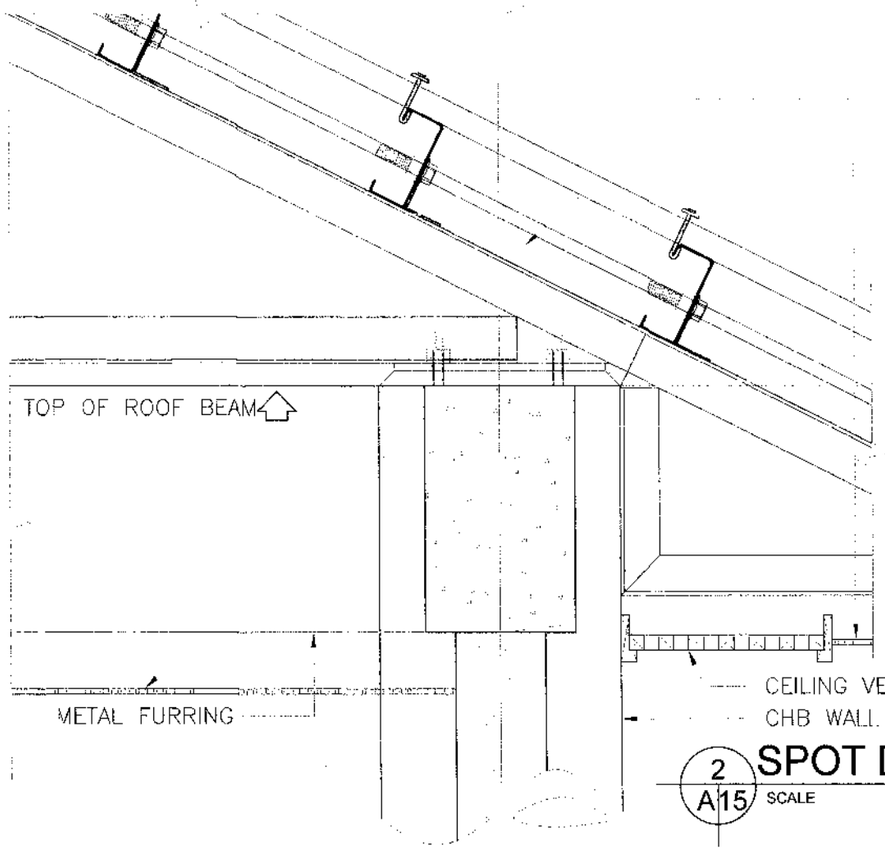
SCALE NOT TO SCALE

1/A14 PERSPECTIVE (CEILING)

SCALE NOT TO SCALE

REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS** REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED: **DIXIE HANNAH LOU C. SARMIENTO** ARCHITECT II DATE: 09/24/25	REVIEWED: **GRACE V. COMALING** ENGINEER II ASST. CHIEF, ENGINEERING DESIGN SECTION DATE: 09/25/25	SUBMITTED: **BRIAN B. VILLANUEVA** ENGINEER III CHIEF, ENGINEERING DESIGN SECTION DATE: 09/26/25	RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE: 09/29/25	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE: 09/29/25	SET NO.: 14 A40 SHEET NO.: 14 98

A



SEE TRUSS DETAIL

4.5mm THK. FIBER CEMENT CEILING BOARD (PAINTED) ON METAL FURRING CHANNEL @ 400mm O.C. (SEE DETAIL)

CEILING VENT (SEE DETAIL)

CHB WALL.

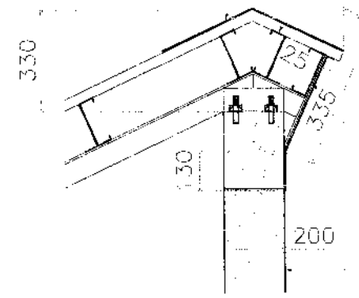
2 A15 SPOT DETAIL (CORNER CLG.)

SCALE 1:10 METERS

0.60mm THK. (BASE METAL THICKNESS) PRE-PAINTED PRE-FORMED RIDGE ROLL

C-PURLIN (SEE STRUCTURAL DETAIL

℄ 300



0.60mm THK. (BASE METAL THICKNESS) PREFORMED, PRE-PAINTED G.I. FLASHING (PAINTED FINISH)

150mm THK. CHB WALL WITH PLAIN CEMENT PLASTER PAINTED FINISH

3 A15 SPOT DETAIL

SCALE 1:20 METERS

NOTE:

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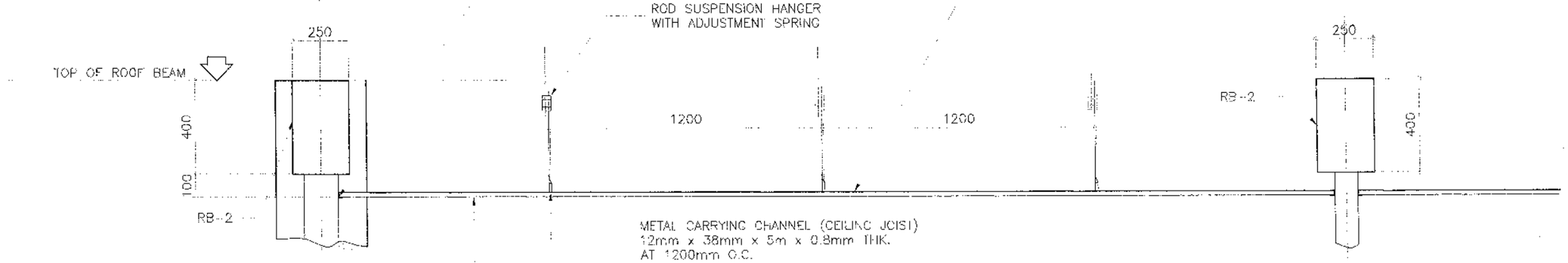
1

ANGLE ∠20 X 20 X 2 ATTACHED TO CHB WALL W/ TOKS SCREWS @ 600 O.C.

ROD SUSPENSION HANGER WITH ADJUSTMENT SPRING

2

METAL DOUBLE FURRING CHANNEL (NAILER) 12mm x 38mm x 5m x 0.8mm THK. AT 400mm O.C.



METAL CARRYING CHANNEL (CEILING JOIST) 12mm x 38mm x 5m x 0.8mm THK. AT 1200mm O.C.

FIBER CEMENT CEILING BOARD 4.5mm THK.

1 A15 SECTION (CEILING)

SCALE 1:20 METERS

REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS** REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**	SHEET CONTENTS • AS SHOWN	PREPARED: **DIXIE HANNAH LOU C. SARMIENTO** ARCHITECT DATE:	REVIEWED: **GRACE Y. COMALING** ENGINEER V ASST. CHIEF, PLANNING AND DESIGN SECTION DATE:	SUBMITTED: **BRYAN R. VILLAQUEVA** ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE:	RECOMMENDED **MARIA D. FLOREN** ASSISTANT DISTRICT ENGINEER DATE:	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE: 04/20/22	SET NO. 15 A40	SHEET NO. 15 98

NOTE:

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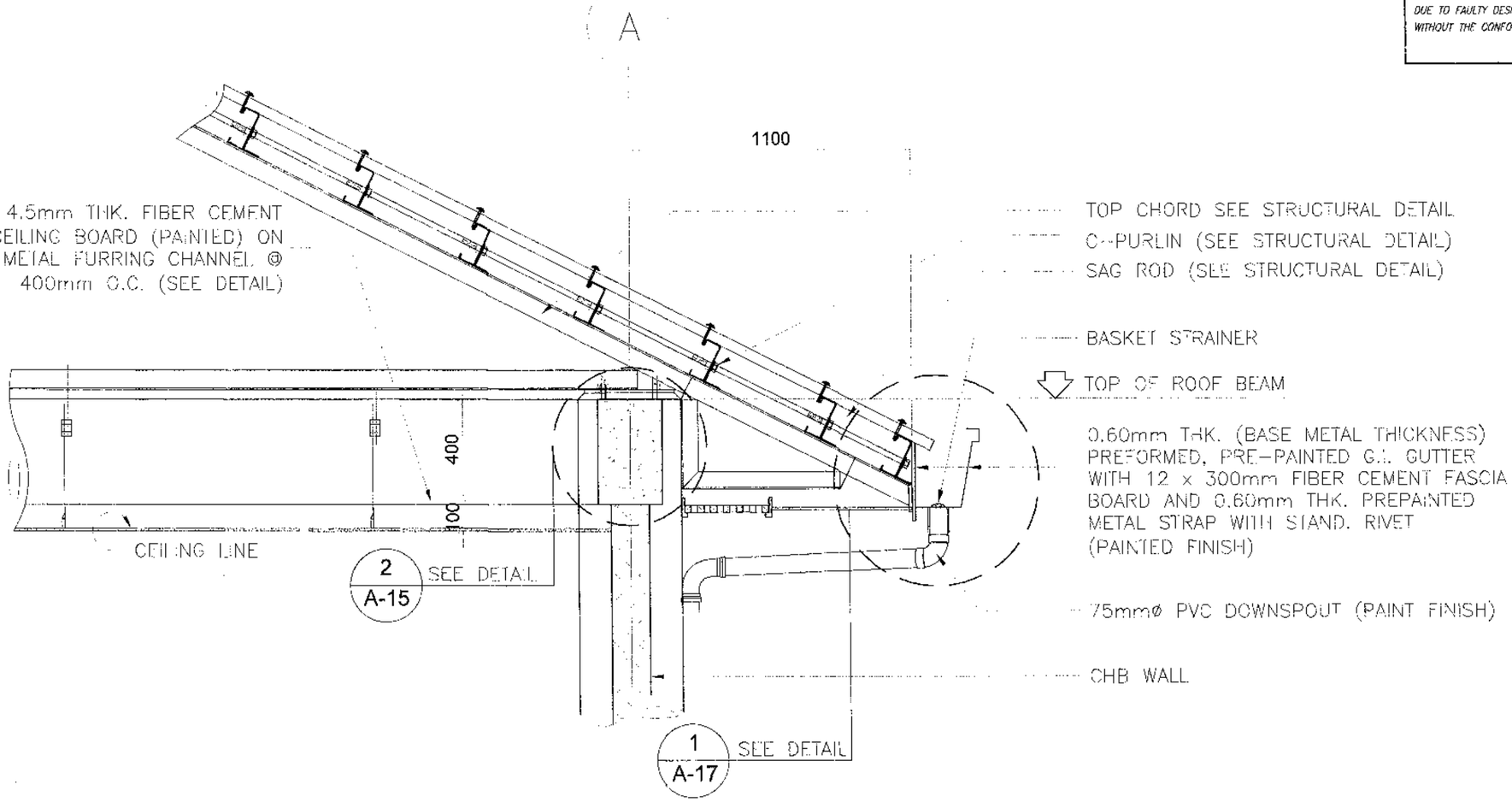


1/A16 SECTION DETAIL (EAVES)

SCALE 1:20 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED:
DIXIE MARNA LOU C. SARMIENTO
ARCHITECT
DATE: 04/24/25

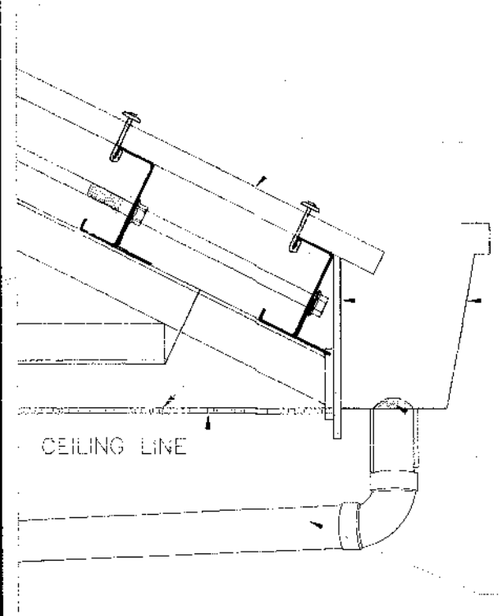
REVIEWED:
GRACE Y. COMALING
ENGINEER II
ASST. CHIEF, PERMITS, PLANS AND DESIGN SECTION
DATE: 04/24/25

SUBMITTED:
BRENT R. VILLANUEVA
ENGINEER III
CHIEF, PLANNING AND DESIGN SECTION
DATE: 04/24/25

RECOMMENDED:
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 04/29/25

APPROVED:
PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE: 04/29/25

SET NO.: 16 / A 40
SHEET NO.: 16 / 98



0.40mm THICK (BASE METAL THICKNESS) LONG SPAN PRE-PAINTED G.I. ROOFING SHEETS WITH TOTAL COATED THICKNESS OF 0.43-0.45mm THICK.

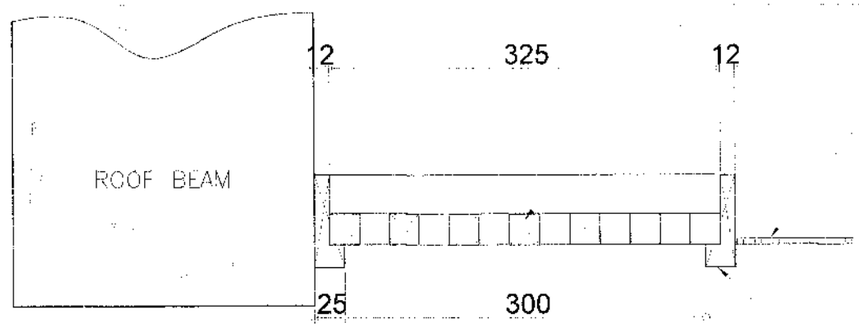
4.5mm THK. FIBER CEMENT CEILING BOARD (PAINTED) ON METAL FURRING CHANNEL @ 400mm O.C. (SEE DETAIL)

0.60mm THK. (BASE METAL THICKNESS) PREFORMED, PRE-PAINTED G.I. GUTTER WITH 12 x 300mm FIBER CEMENT FASCIA BOARD AND 0.60mm THK. PREPAINTED METAL STRAP WITH STAND. RIVET (PAINTED FINISH)

BASKET STRAINER

75mmø PVC DOWNSPOUT (PAINTED FINISH)

1 A17 SPOT DETAIL (EAVES)
SCALE 1:10 METERS

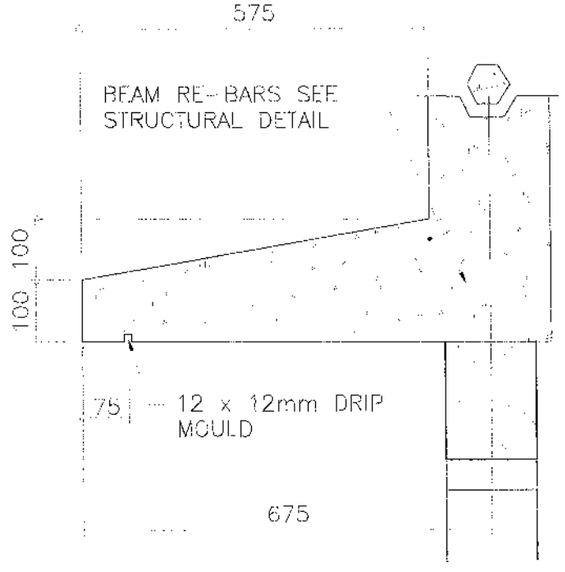


25 x 25mm WOOD SLAT PROVIDE INSECT SCREEN

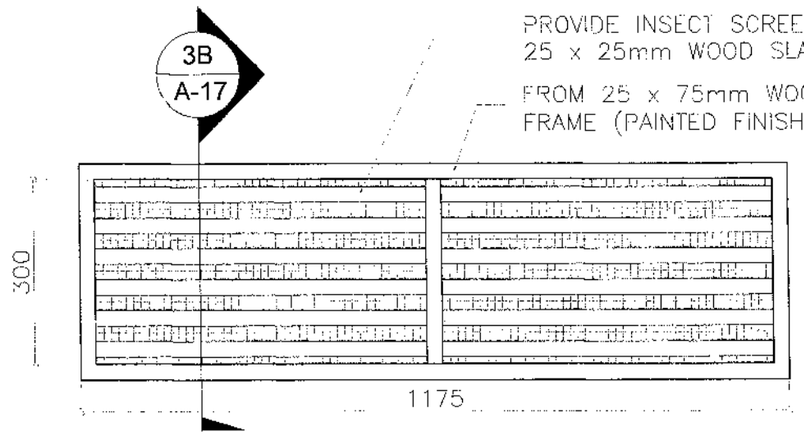
4.5mm THK. FIBER CEMENT CEILING BOARD (PAINTED) ON METAL FURRING CHANNEL @ 400mm O.C. (SEE DETAIL)

FR.25x75mm VENT FRAME (PAINT FINISH)

3B A17 DETAIL SECTION
SCALE 1:5 METERS



2 A17 CONCRETE SUN BREAKER DETAIL
SCALE 1:10 METERS



3A A17 VENT DETAILS
SCALE 1:10METERS

3 A17 VENT DETAILS
SCALE AS SHOWN

NOTE:

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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED: DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT II, DATE: 07/29/25

REVIEWED: GRACE Y. COMALING, ENGINEER II, ASST. CHIEF, PLANNING & DESIGN SECTION, DATE: 07/29/25

SUBMITTED: BRIAN U. VILLANUEVA, ENGINEER III, CHIEF, PLANNING & DESIGN SECTION, DATE: 07/29/25

RECOMMENDED: MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE: 07/29/25

APPROVED: PABLO L. ESCUADRO, JMPA, DISTRICT ENGINEER, DATE: 07/29/25

SET NO: 17 A 40

SHEET NO: 17 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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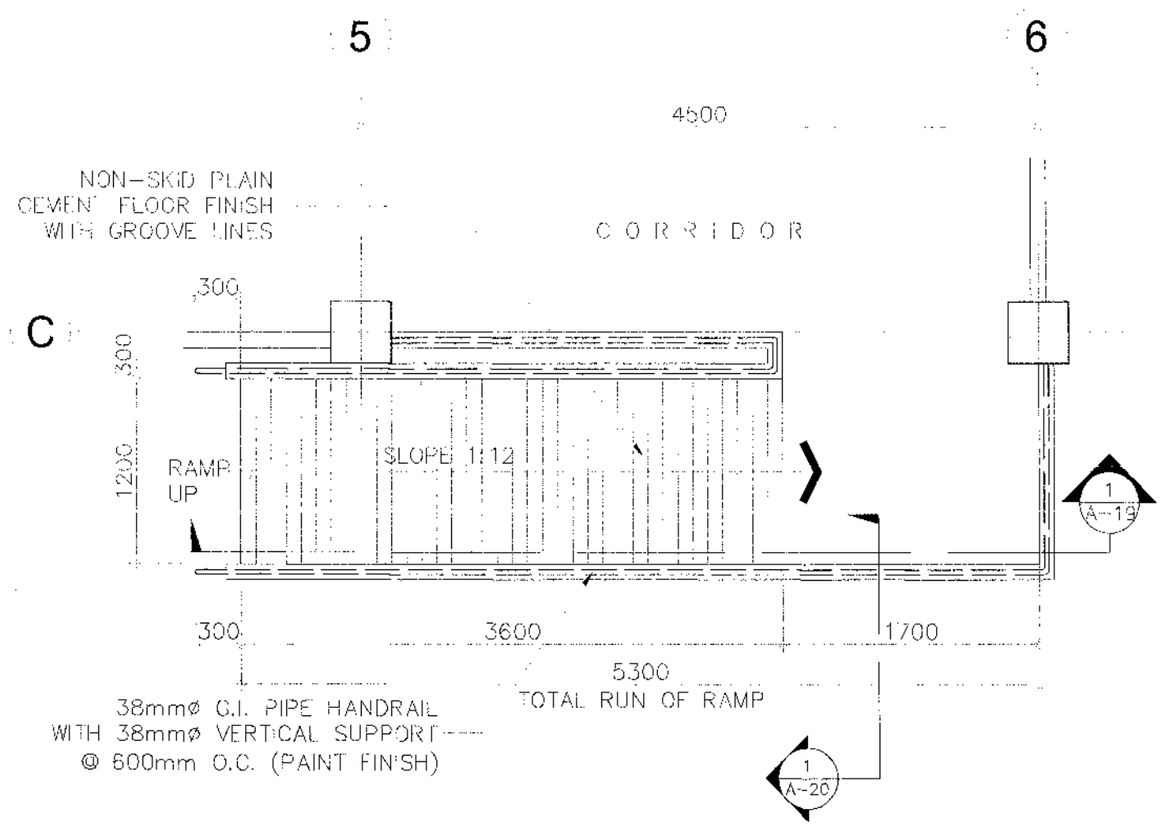
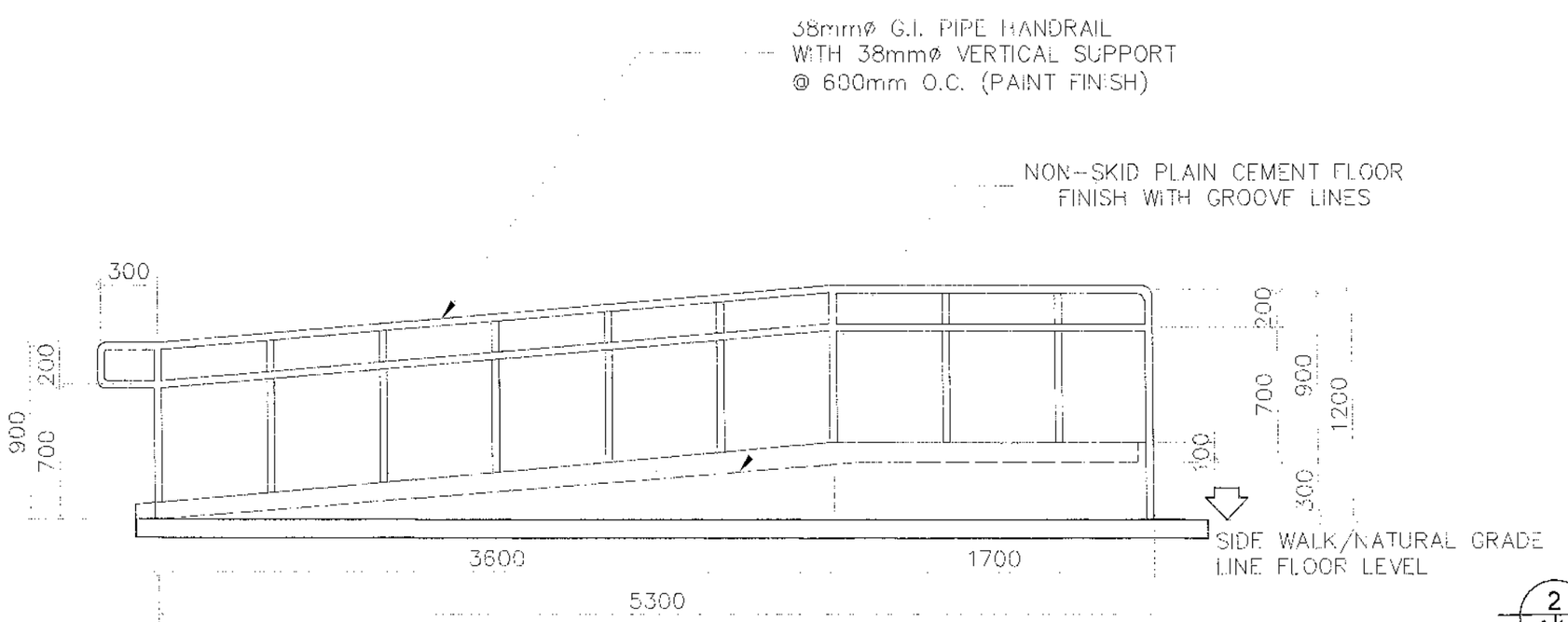


1 / A18 DETAIL PLAN OF RAMP

SCALE 1:40 METERS



2 / A18 DETAIL ELEVATION OF RAMP

SCALE 1:30 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:
DIXIE HANNAH LOU C. SARMIENTO ARCHITECT DESIGNER	GRACE Y. COMALING ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION	ENGR. RICHARD V. QUIEVA ENGINEER III CHIEF, PLANNING AND DESIGN SECTION	MARIA LI FLOREN ASSISTANT DISTRICT ENGINEER DATE: 07/29/25	PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE: 07/29/25

SET NO.	SHEET NO.
18 A 40	18 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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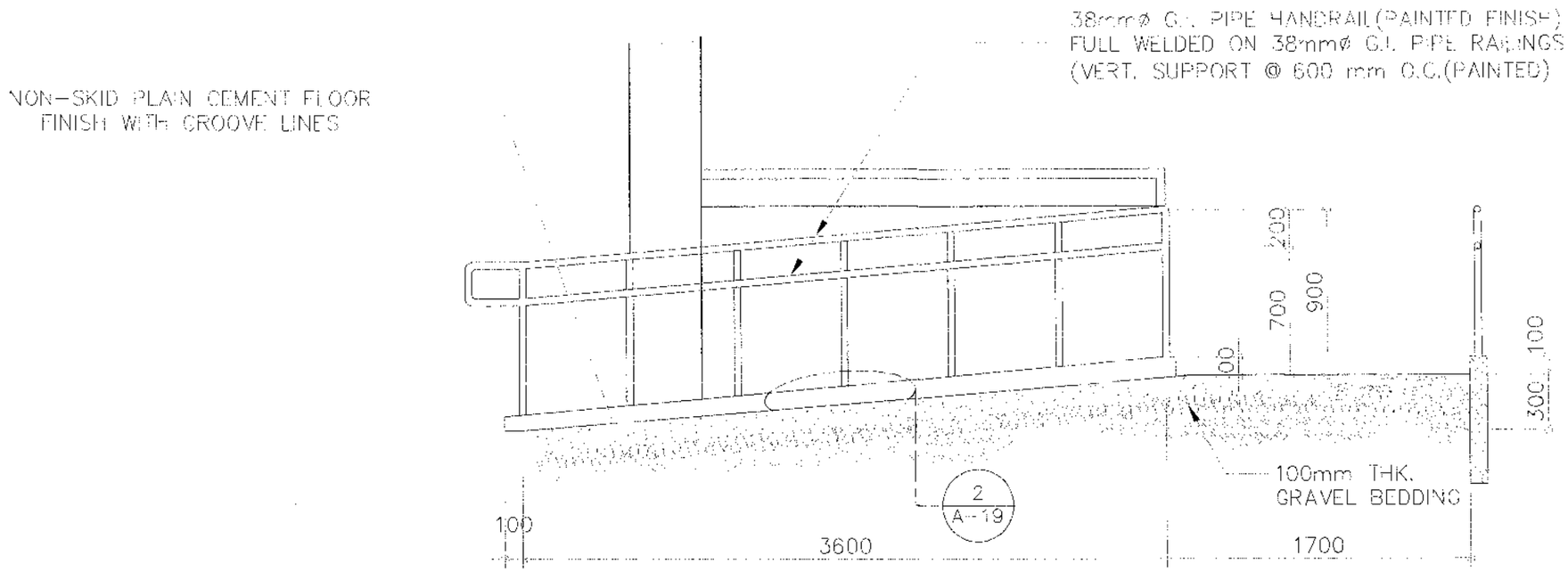
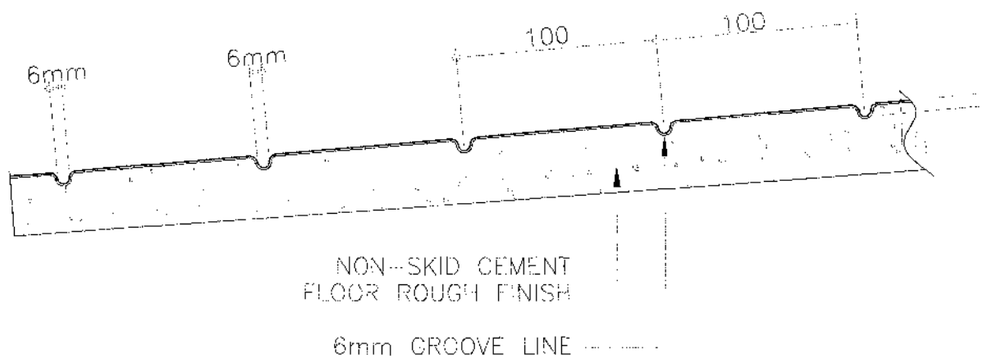


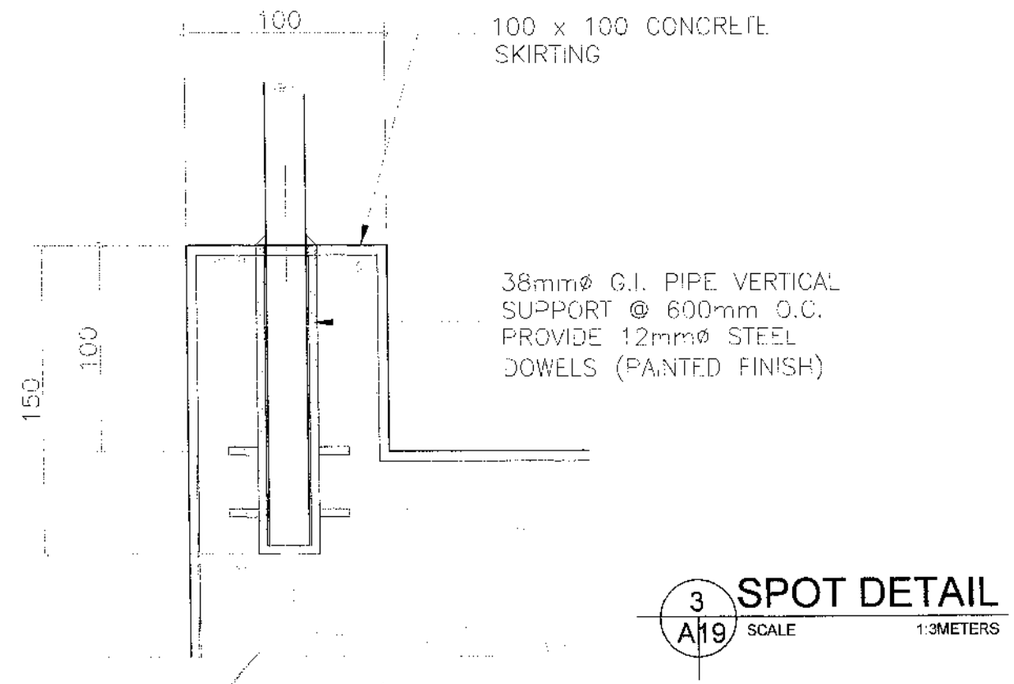
1 A19 DETAIL SECTION OF RAMP

SCALE 1:30 METERS



2 A19 SPOT DETAIL

SCALE 1:3METERS



3 A19 SPOT DETAIL

SCALE 1:3METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:
DIXIE HANNAH LOU C. SARMIENTO ENGINEER II DRCA / PCTI DATE: 07/11/25	GRACEY L. CORALING ENGINEER III ASST. CHIEF, PLANNING & PROGRAMMING SECTION DATE: 07/11/25	BRIAN T. ALEJANDEVA ENGINEER III CHIEF, PLANNING & PROGRAMMING SECTION DATE: 07/11/25	MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 07/11/25	PABLO ESCUADRO, MPA DISTRICT ENGINEER DATE: 07/29/25

SET NO: 19 A40 | SHEET NO: 19 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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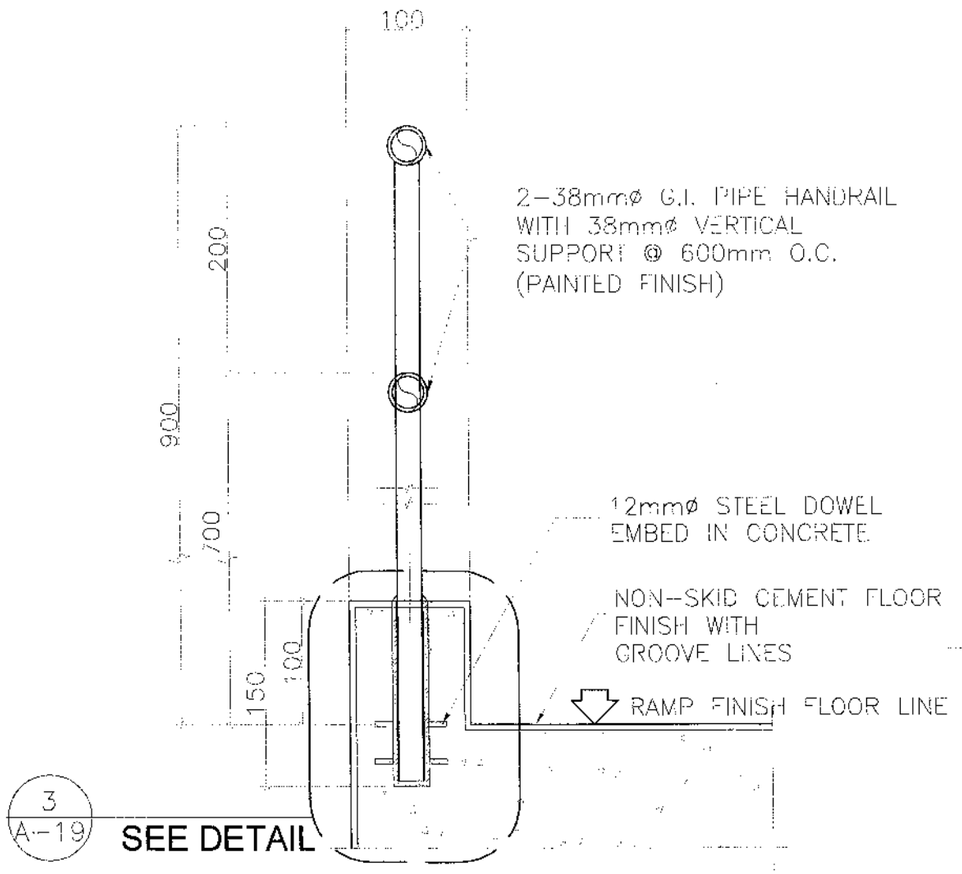
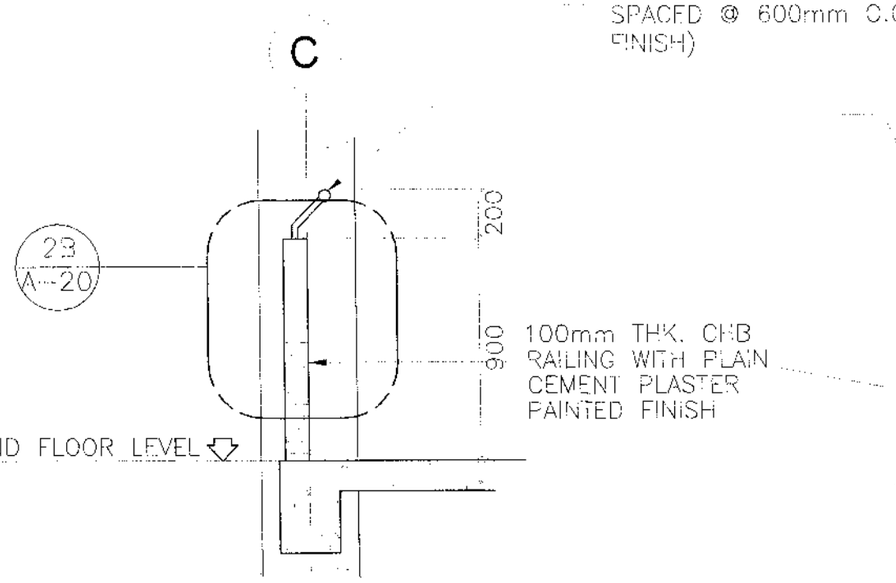


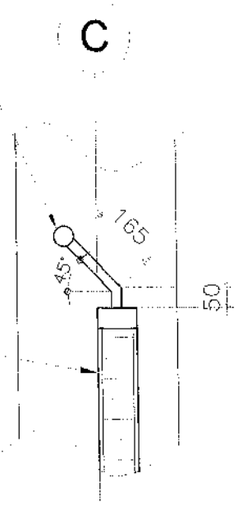
1 A20 DETAIL SECTION

SCALE 1:5METERS



2A A20 DETAIL SECTION

SCALE 1:25METERS



2B A20 DETAIL SECTION

SCALE 1:25METERS

2 A20 BALCONY RAILING DETAIL

SCALE AS SHOWN

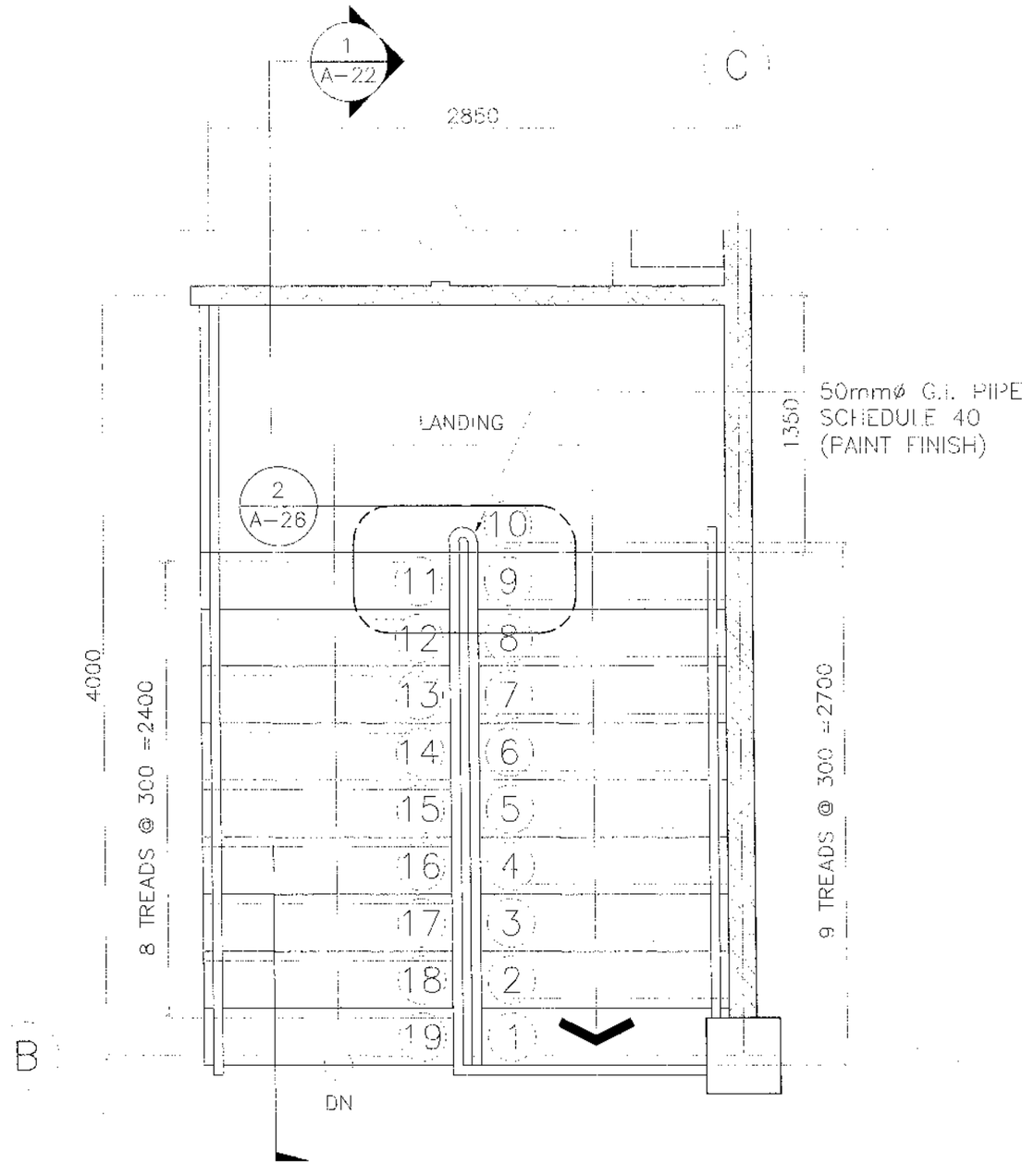
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:
DIXIE HANNAH LOUIE SAMMIENTO, ARCHITECT II	GRACE Y. COMALING, ENGINEER II, ASST. CHIEF, PLANNING AND DESIGN SECTION	EDGAR P. VILLANUEVA, ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION	MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER	PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER
DATE: 07/24/25	DATE: 07/25/25	DATE: 07/25/25	DATE: 07/29/25	DATE: 07/29/25

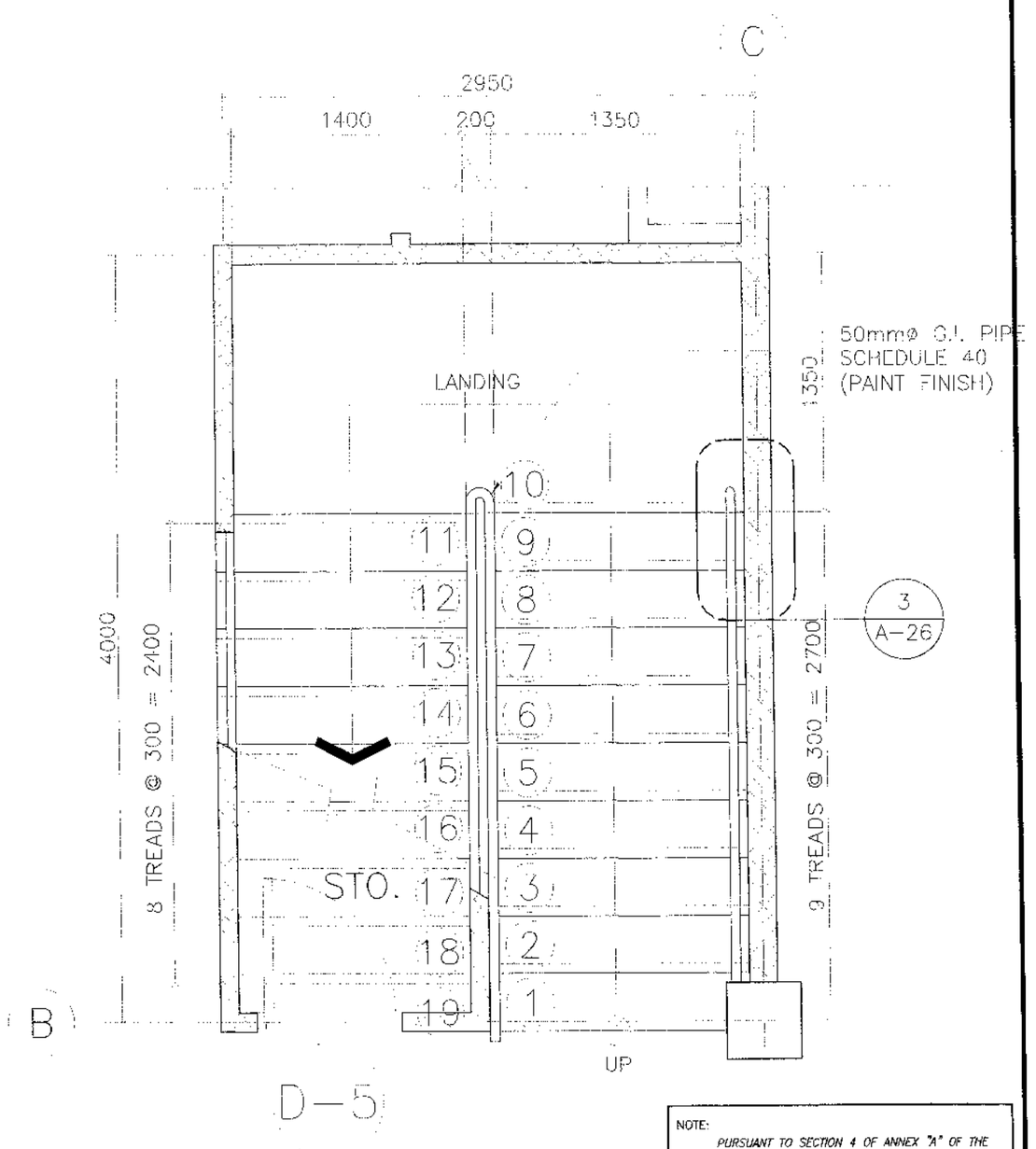
SET NO.	SHEET NO.
20 A 40	20 98



AT SECOND FLOOR

DETAIL PLAN OF STAIR

1 / A21 SCALE 1:30 METERS



D-5

AT GROUND FLOOR

DETAIL PLAN OF STAIR

2 / A21 SCALE 1:30 METERS

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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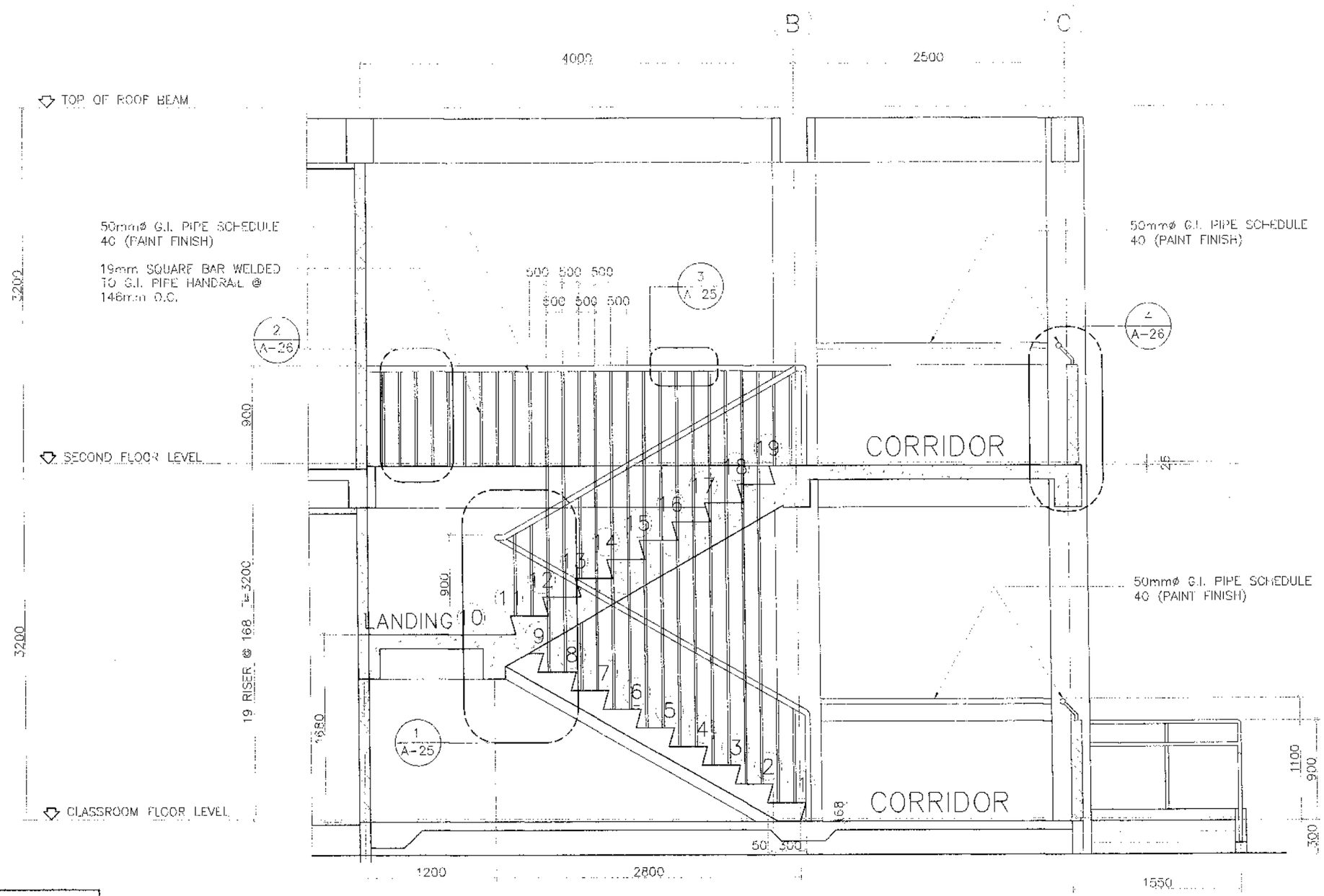
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED	REVIEWED	SUBMITTED	RECOMMENDED	APPROVED
DIXIE HANNAH LOUIE C. SARMIENTO, ARCHITECT	GRACE Y. DOMALING, ENGINEER II, ASST. CHIEF, PLANNING & DESIGN SECTION	BRIAN C. VILLANUEVA, ENGINEER III, CHIEF, PLANNING & DESIGN SECTION	MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER	PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER
DATE: 07/29/25	DATE: 07/29/25	DATE: 07/29/25	DATE: 07/29/25	DATE: 07/29/25

SET NO. 21 | SHEET NO. A 40 / 21 / 98



NOTE:

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1/A22 DETAIL SECTION OF STAIR

SCALE 1:40 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**

SHEET CONTENTS: AS SHOWN

PREPARED: DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT III, DATE 04/29/25

REVIEWED: GRACE Y. COMALING, ENGINEER II, ASST. CHIEF, PLANNING AND DESIGN SECTION, DATE 04/29/25

SUBMITTED: BRIAN R. VILLANUEVA, ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION, DATE 04/29/25

RECOMMENDED: MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE 04/29/25

APPROVED: PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER, DATE 04/29/25

SET NO. 22 A40 | SHEET NO. 22 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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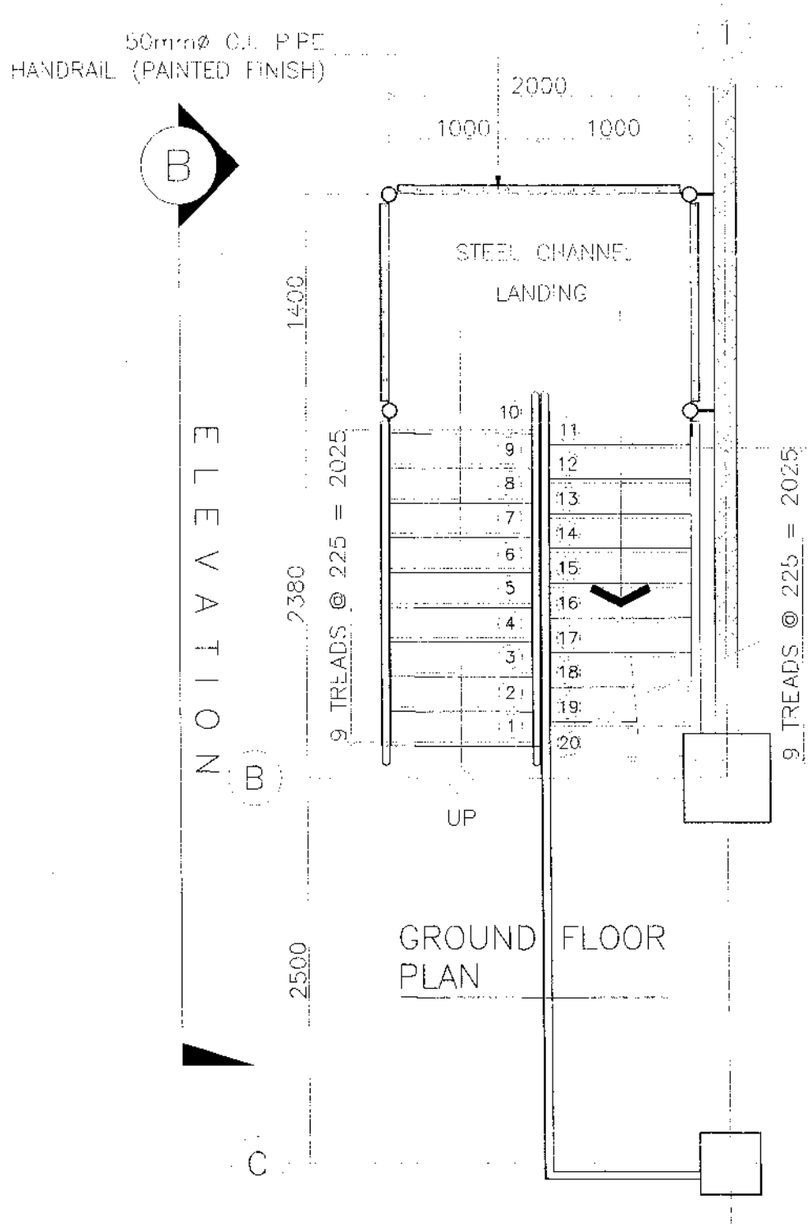

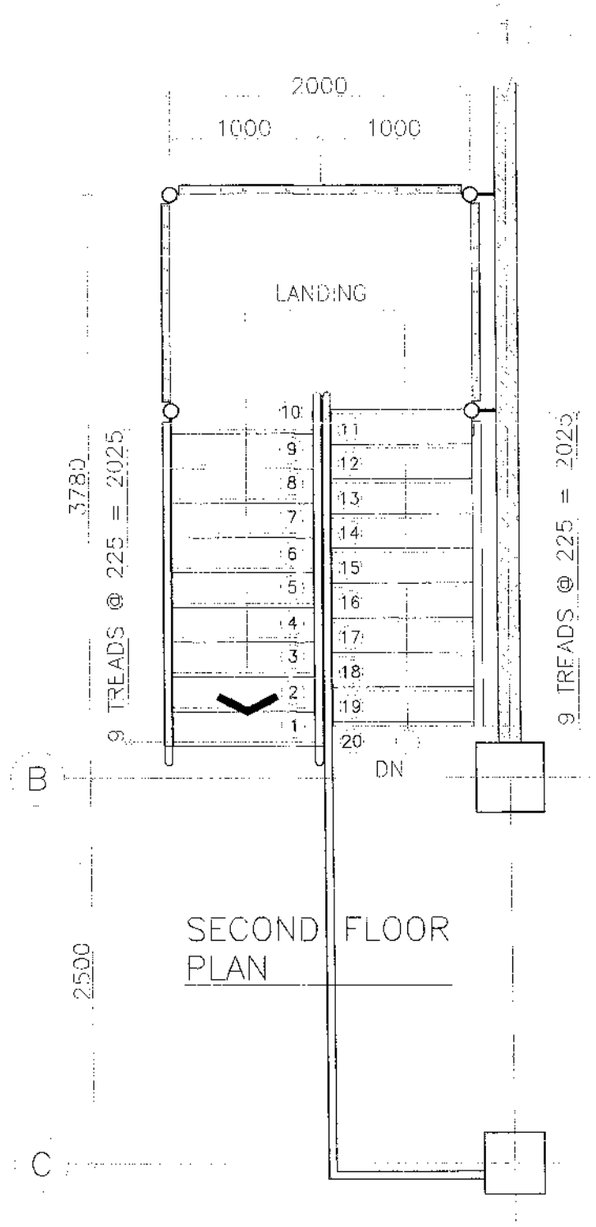

1/A23 DETAIL PLAN OF FIRE ESCAPE STAIR

SCALE 1:40 METERS

REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS** REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**	SHEET CONTENTS • AS SHOWN	PREPARED: **DIXIE HANNAH LOU C. SARMIENTO** ARCHITECT II DATE: 07/29/25	REVIEWED: **GRACE Y. COMALING** ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE: 07/29/25	APPROVED: **BRIAN R. VILLANUEVA** ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE: 7/29/25	RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE: 7/29/25	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE: 07/29/25	SET NO. 23 A 40	SHEET NO. 23 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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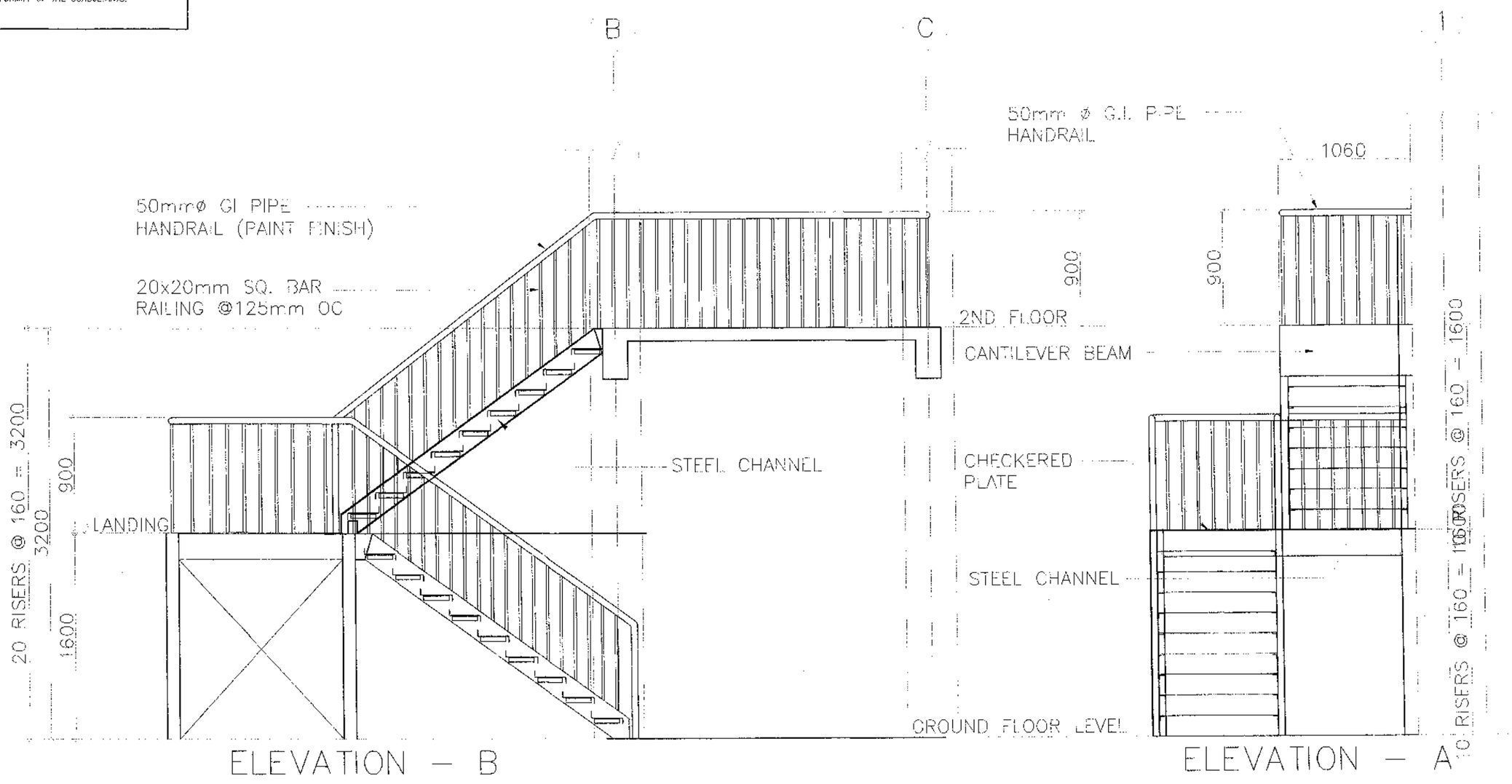


ELEVATION – B

ELEVATION – A

1/A24 DETAIL ELEVATION OF FIRE ESCAPE STAIR

SCALE 1:35 METERS

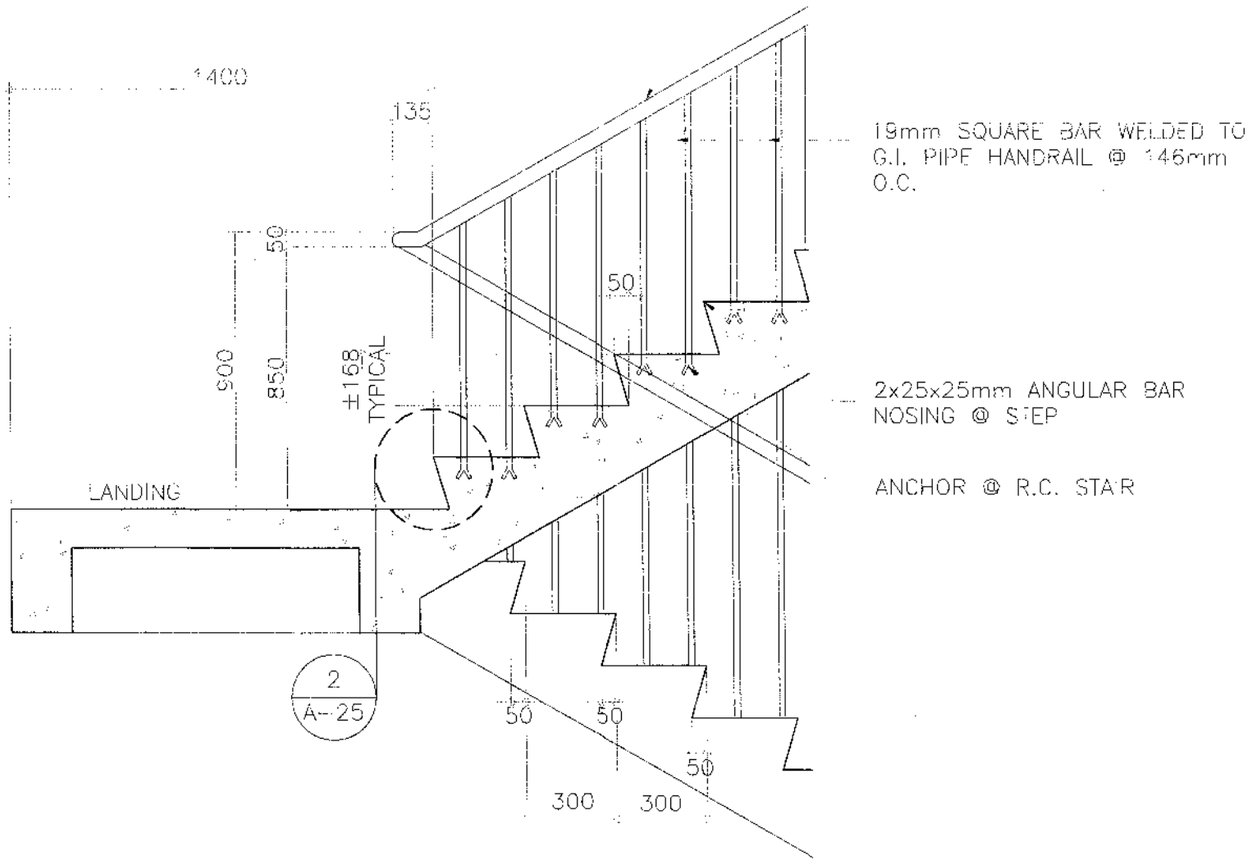
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

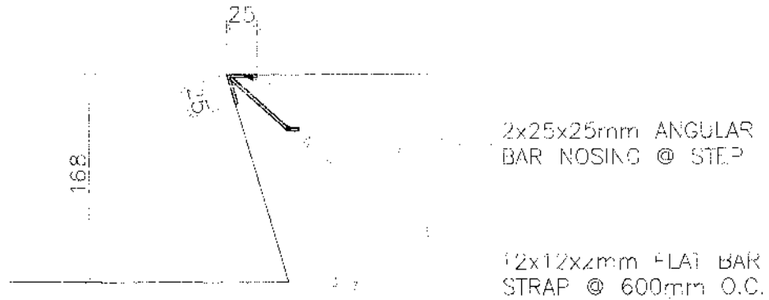
SHEET CONTENTS: • AS SHOWN

PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:
DIXIE HANNAH LOU T. SARMIENTO, ARCHITECT II	GRACEY COMALING, ENGINEER I, ASST. CHIEF PLANNING AND DESIGN SECTION	SHANTY VILLANUEVA, ENGINEER III, CHIEF PLANNING AND DESIGN SECTION	MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER	PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER
DATE: 09/29/25	DATE: 09/29/25	DATE: 09/29/25	DATE: 09/29/25	DATE: 09/29/25

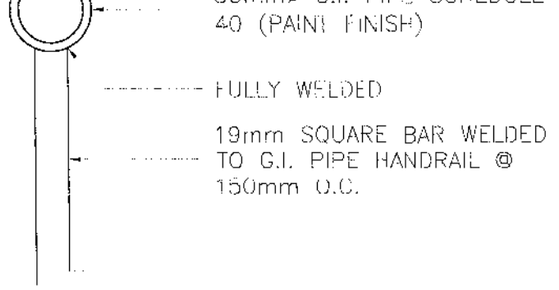
SET NO. 24 A 40 | SHEET NO. 24 98



1 A25 **SECTION DETAIL**
SCALE 1:20 METERS



2 A25 **NOSING DETAIL**
SCALE 1:5 METERS



3 A25 **HANDRAIL DETAIL**
SCALE 1:3METERS

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED: DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT II, DATE: 07/20/23

REVIEWED: GRACE V. COMALING, ENGINEER II, ASST. CHIEF, PLANNING AND DESIGN SECTION, DATE: 07/25/23

SUBMITTED: ENGR. ROMAN L. VILLANUEVA, ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION, DATE: 07/25/23

RECOMMENDED: MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE: 07/29/23

APPROVED: PABLO L. ESCUADRO MPA, DISTRICT ENGINEER, DATE: 07/29/23

SET NO. 25 A 40 | SHEET NO. 25 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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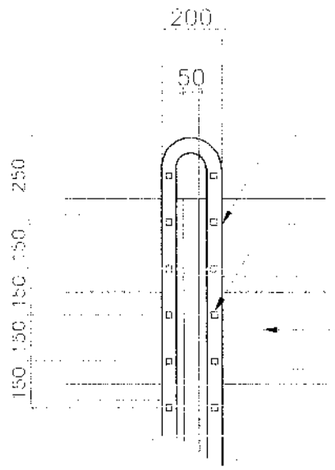


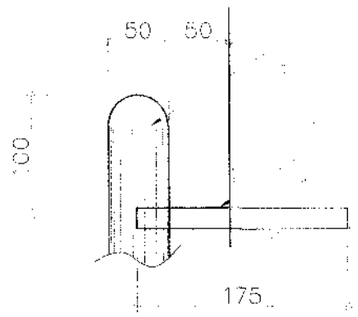
50mmø G.I. PIPE SCHEDULE 40 (PAINT FINISH)

19mm SQUARE BAR WELDED TO G.I. PIPE HANDRAIL @150mm O.C.

TREAD

2 A26 **SPOT DETAIL**

SCALE 1:5 METERS

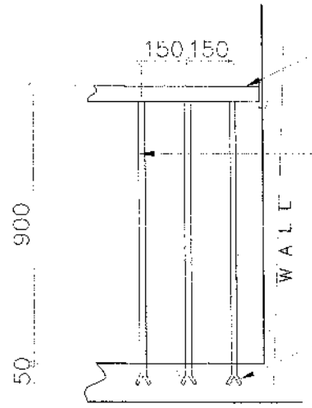


50mmø SCH. 40 G.. PIPE (PAINT FINISH)

19mm SQ. BAR ANCHORED TO THE WALL (PAINT FINISH)

3 A26 **SPOT DETAIL**

SCALE 1:5 METERS



50mmø G.I. PIPE SCH. (PAINT FINISH)

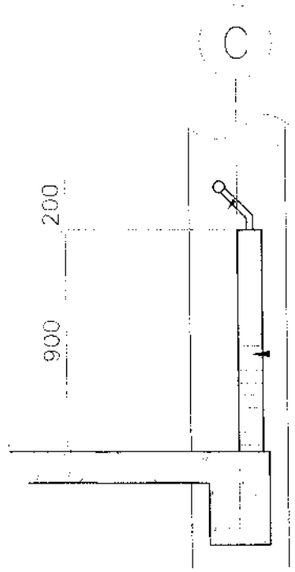
19mm SQUARE BAR WELDED TO G.I. PIPE HANDRAIL @ 146mm O.C.

ANCHOR @ R.C. STAIR

1 A26 **CRASH RAILING**

SCALE 1:20 METERS

50mm G.I. PIPE SCH. 40 HANDRAIL w/ 19mm SQUARE BAR 600mm O.C. (PAINT FINISH)

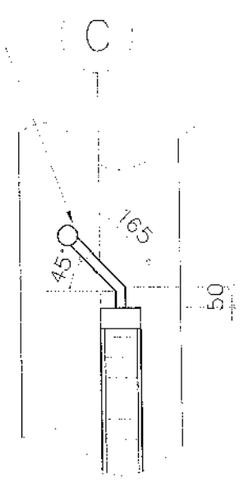


100mm THK CHB RAILING PLASTER AND PAINT FINISH

▼ SECOND FLOOR LEVEL

ELEVATION

SCALE 1:25 M.



DETAIL

SCALE 1:15 M.

4 A26 **BALCONY RAILING DETAIL**

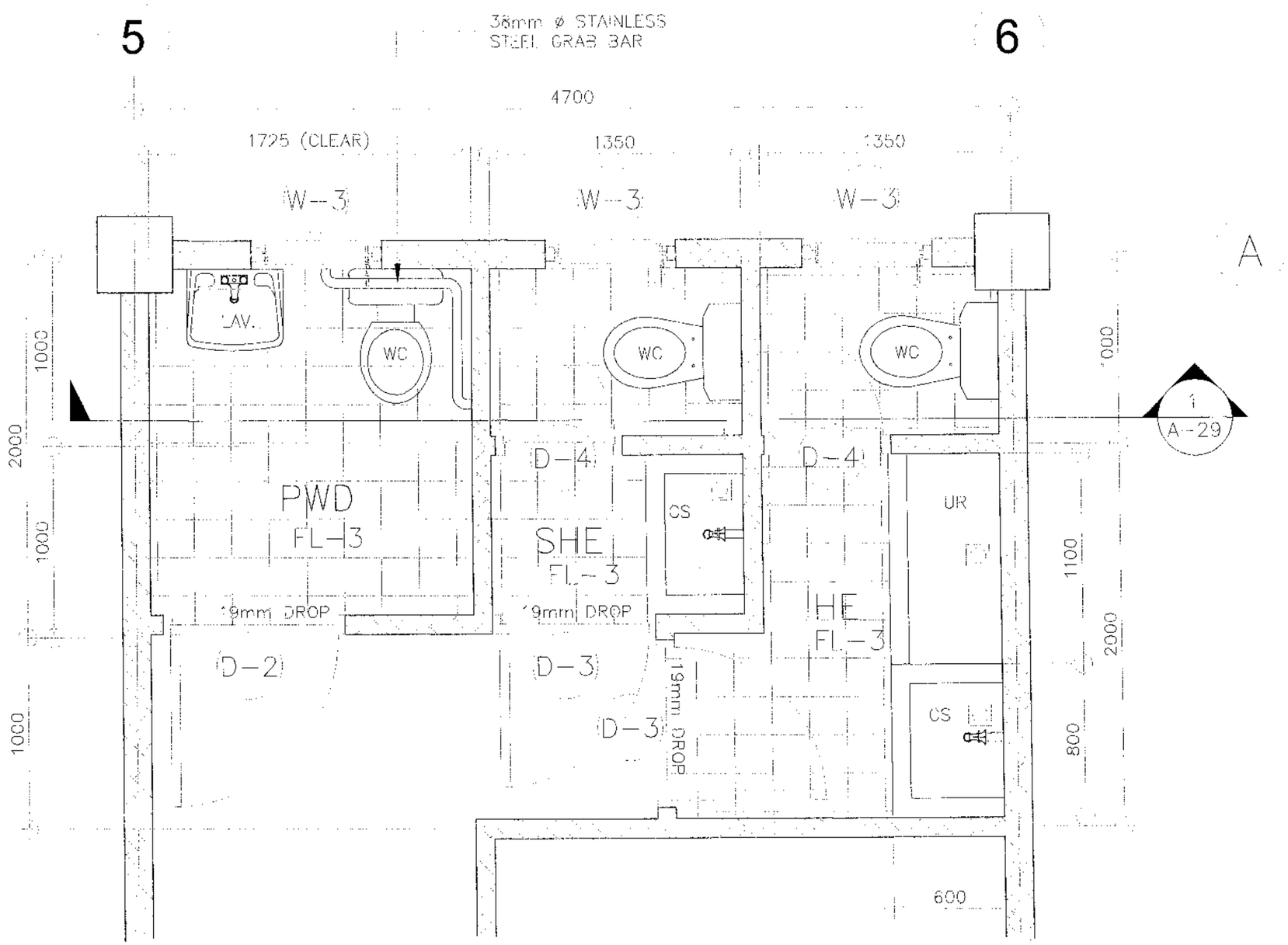
SCALE AS SHOWN

REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS** REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED: **DIXIE MONNAH LOUIE C. SARMIENTO** ARCHITECT DATE:	REVIEWED: **GRACE V. GOMALING** ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE:	SUBMITTED: **BRIANNE [illegible] NIEVA** ENGINEER II CHIEF, PLANNING AND DESIGN SECTION DATE:	RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE:	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE:	SET NO: 26 A40	SHEET NO: 26 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



GROUND FLOOR

DETAIL PLAN OF TOILET

1 / A27 SCALE 1:25 METERS

REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS** REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED: DIXIE [illegible] LOLOC SARMIENTO ARCHITECT III DATE: 04/29/25	REVIEWED: GRACE Y. COMALING ENGINEER III ASST. CHIEF, PLANNING AND DESIGN SECTION DATE: 04/29/25	SUBMITTED: BRIAN E. VILLANUEVA ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE: 04/29/25	RECOMMENDED: MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 04/29/25	APPROVED: PABLO L. BECUADRO, MPA DISTRICT ENGINEER DATE: 04/29/25	SET NO. 27 A 40	SHEET NO. 27 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184. APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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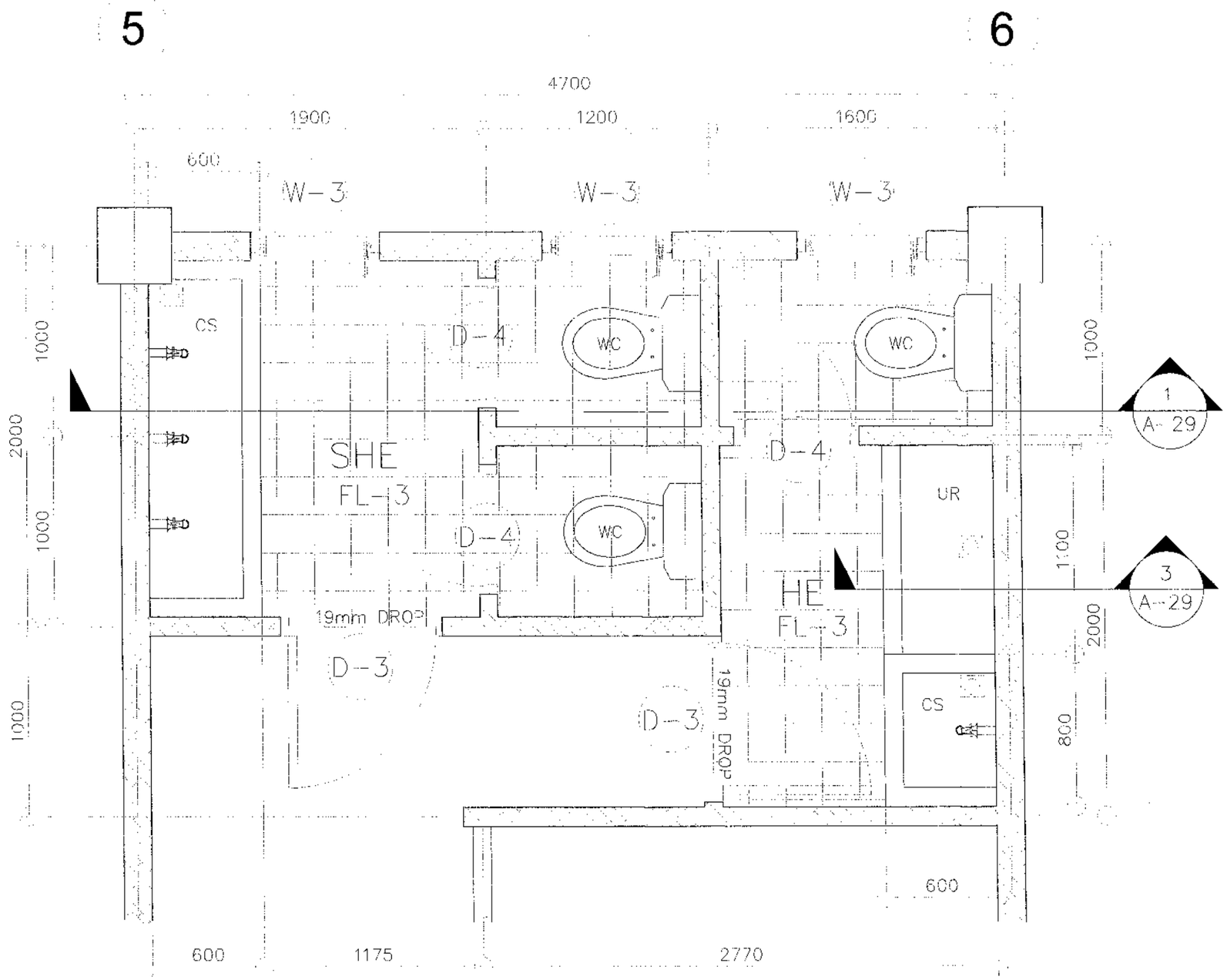

SECOND FLOOR

DETAIL PLAN OF TOILET

1 / A28 SCALE 1:25METERS

REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS** REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED: DIXIE ANNAH LOUIE C. SARMIENTO ARCHITECT V DATE: 04/24/15	REVIEWED: GRACE Y. COMALING ENGINEER II ASST. CHIEF PLANNING AND DESIGN SECTION DATE: 04/28/15	SUBMITTED: BRIANNE VILLANUEVA ENGINEER III CHIEF PLANNING AND DESIGN SECTION DATE: 04/28/15	RECOMMENDED: MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 4/29/15	APPROVED: PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE: 4/29/15	SET NO. 28 A 40	SHEET NO. 28 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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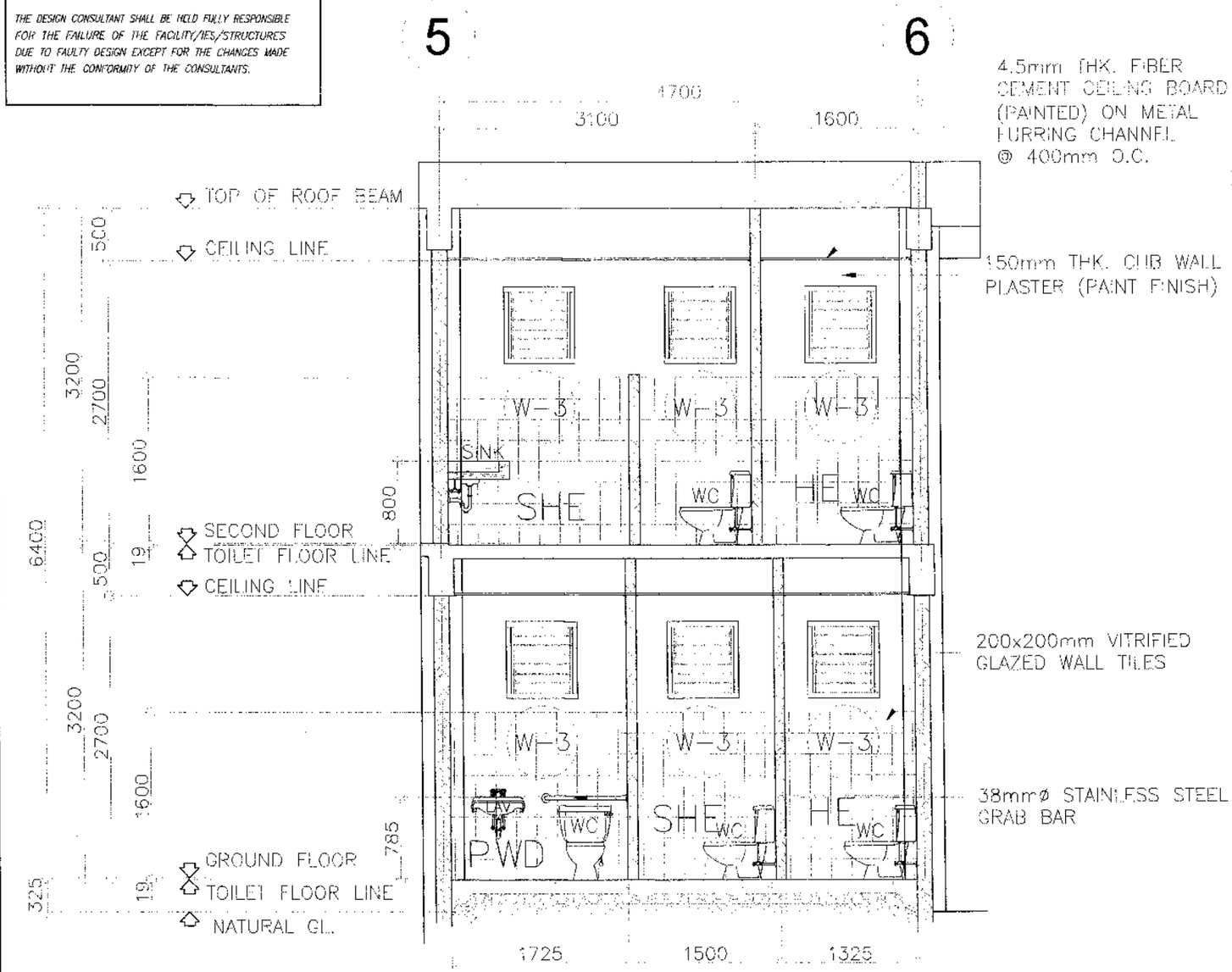
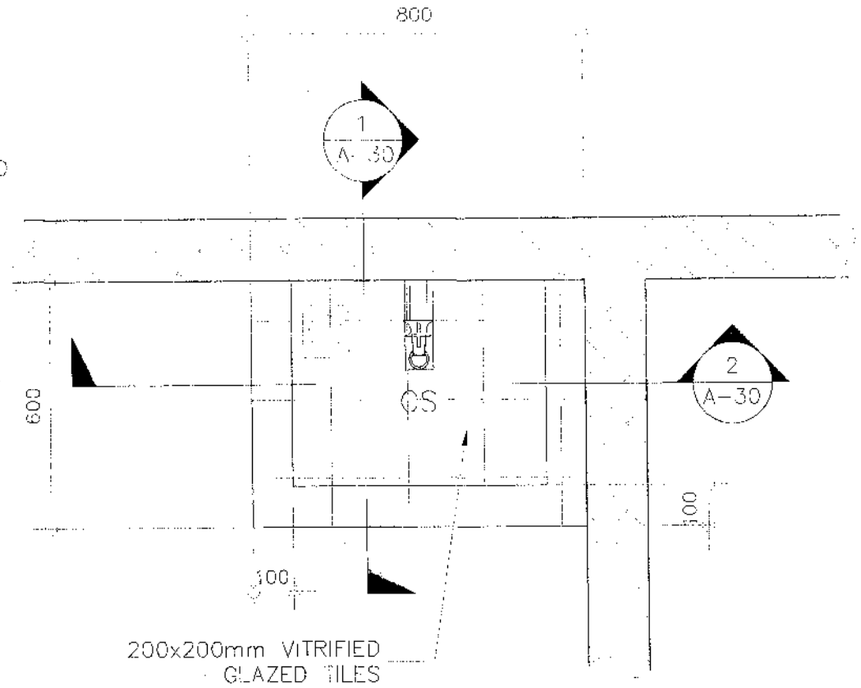


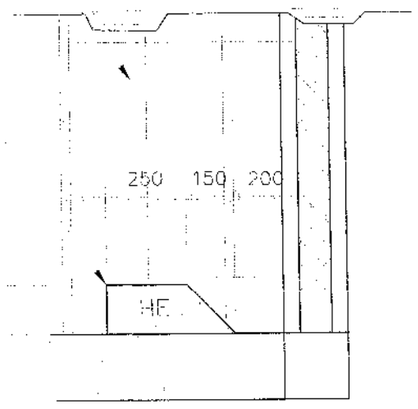
GROUND AND SECOND FLOOR
1/A29 DETAIL SECTION OF TOILET
SCALE 1:50 METERS



2/A29 DETAIL OF COUNTER SINK
SCALE 1:15 METERS

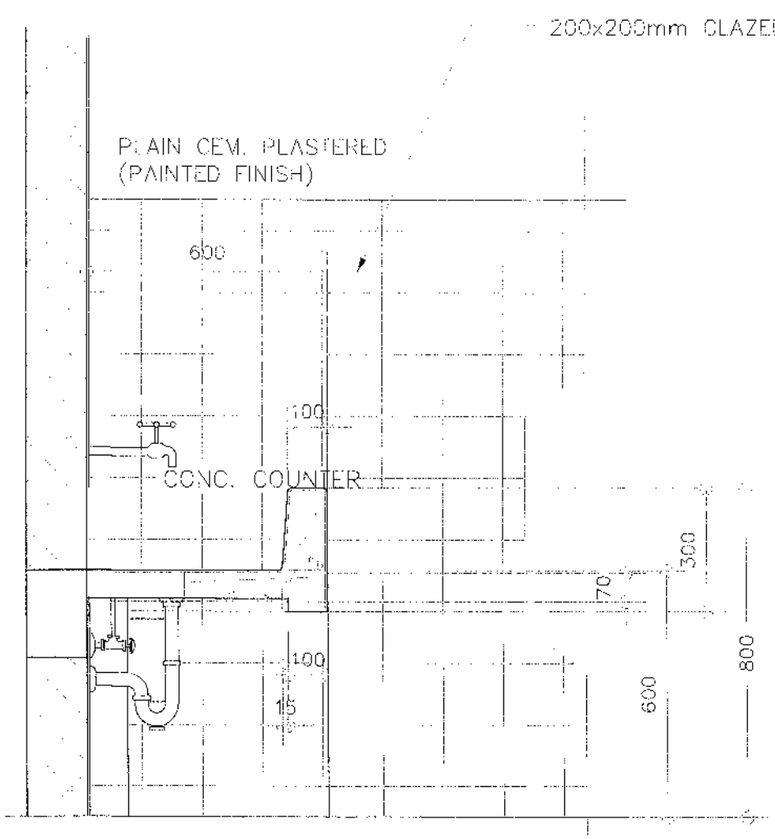
200 x 200mm VITRIFIED GLAZED WALL TILES

R.C. PEDESTAL
R.D. W/200x200mm UNGLAZED WALL TILES FLOOR FINISH

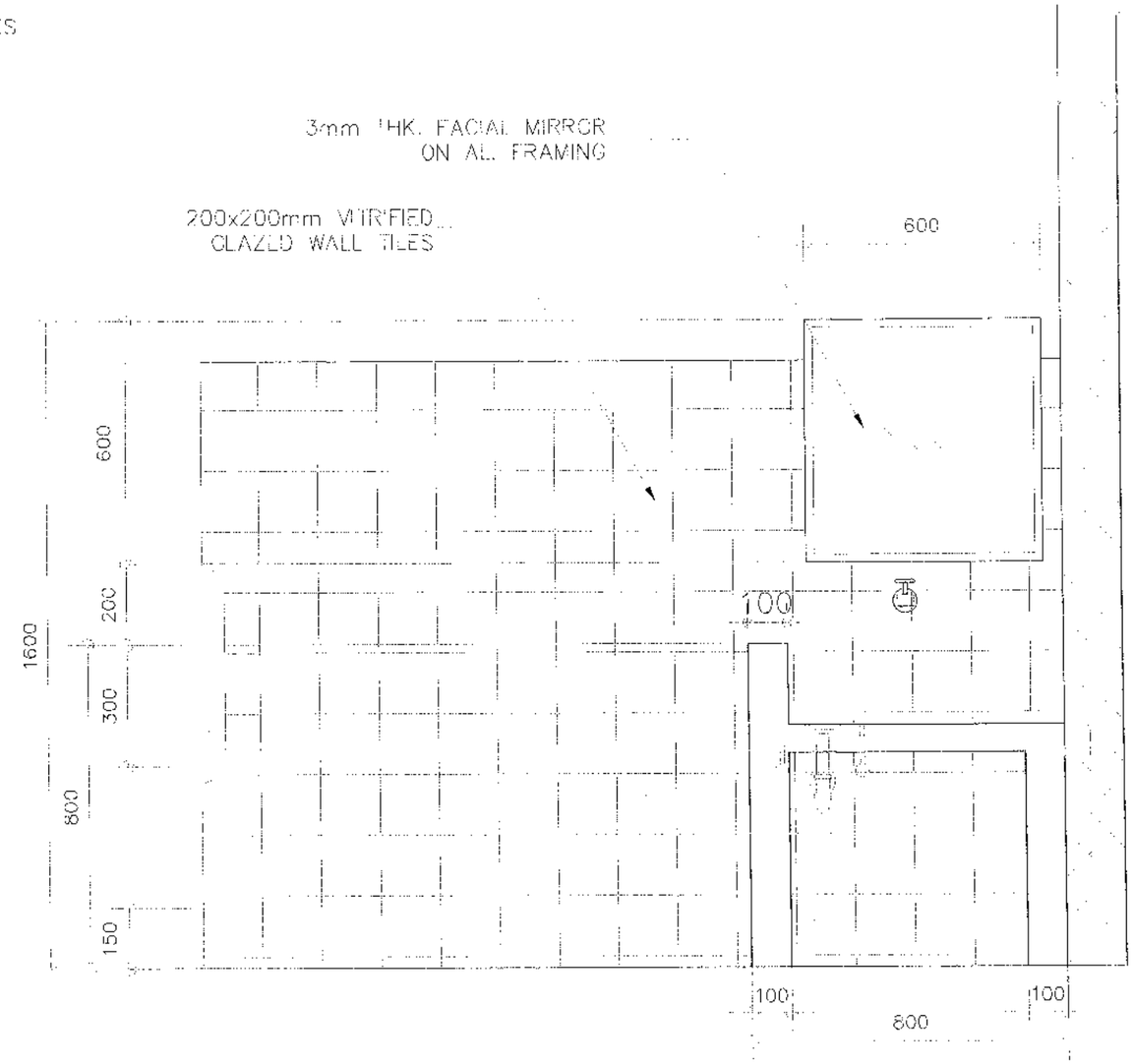


URINAL TROUGH
3/A29 SECTION AND DETAIL
SCALE 1:15 METERS

REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS** REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED: **DIXIE HANNAH LOU C. SARMIENTO** ARCHITECT DATE:	REVIEWED: **GRACE V. COMALING** ENGINEER ASST. CHIEF, ENGINEERING DESIGN SECTION DATE:	SUBMITTED: **BRIAN [illegible]** ENGINEER III CHIEF, ENGINEERING DESIGN SECTION DATE:	RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE:	APPROVED: **PADGE L. ESGUERRA-UMPA** DISTRICT ENGINEER DATE:	SET NO. 29 A 40	SHEET NO. 29 98



COUNTER SINK
1/A30 DETAIL SECTION 2
SCALE 1:15 METERS



2/A30 DETAIL SECTION
SCALE 1:15 METERS

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED:
DIXIE HANNAH LOUIE C. SARMIENTO
ARCHITECT
DATE: 04/24/25

REVIEWED:
GRACE T. COMALING
ENGINEER II
ASST. CHIEF OF PROGRAM DESIGN SECTION
DATE: 04/28/25

SUBMITTED:
BRIAN B. VILLANUEVA
ENGINEER II
CHIEF OF PROGRAM DESIGN SECTION
DATE: 04/28/25

RECOMMENDED:
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 04/29/25

APPROVED:
PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE: 04/29/25

SHEET NO: 30 / A 40
SHEET NO: 30 / 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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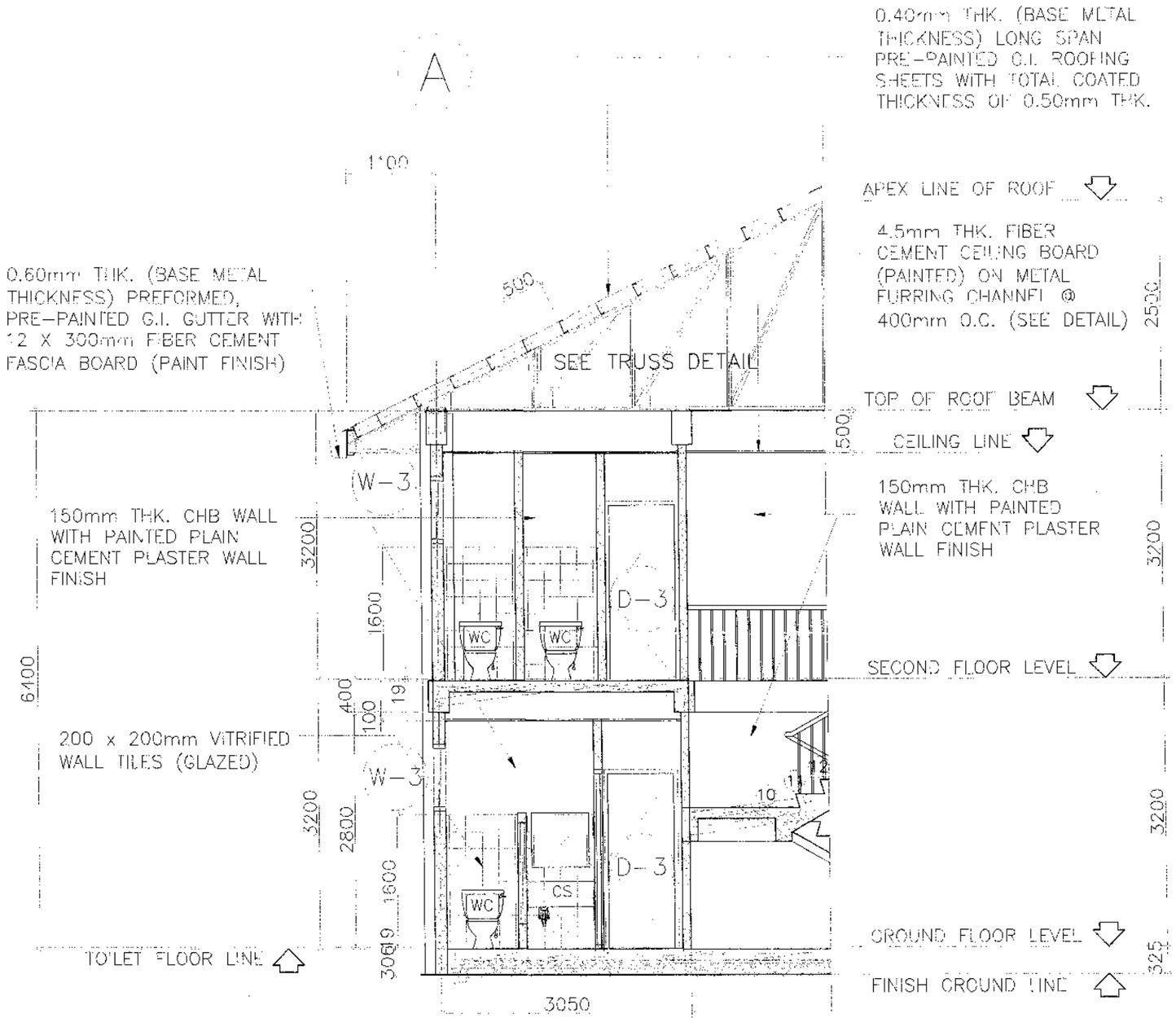

ALONG TOILETS
BAY SECTION
1 / A31 SCALE 1:60 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED: DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT II — DATE: 07/24/25
REVIEWED: GRACE Y. COMALING, ENGINEER II, ASST. CHIEF, ENGINEERING DESIGN SECTION — DATE: 07/28/25
SUBMITTED: BRIAN B. VELASQUEVA, ENGINEER III, CHIEF, ENGINEERING DESIGN SECTION — DATE: 07/28/25
RECOMMENDED: MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER — DATE: 07/29/25
APPROVED: PABLO L. ESCUADRO IMPA, DIS. RICT ENGINEER — DATE: 07/29/25

SET NO. 31 | SHEET NO. A 40 | 31 / 98

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

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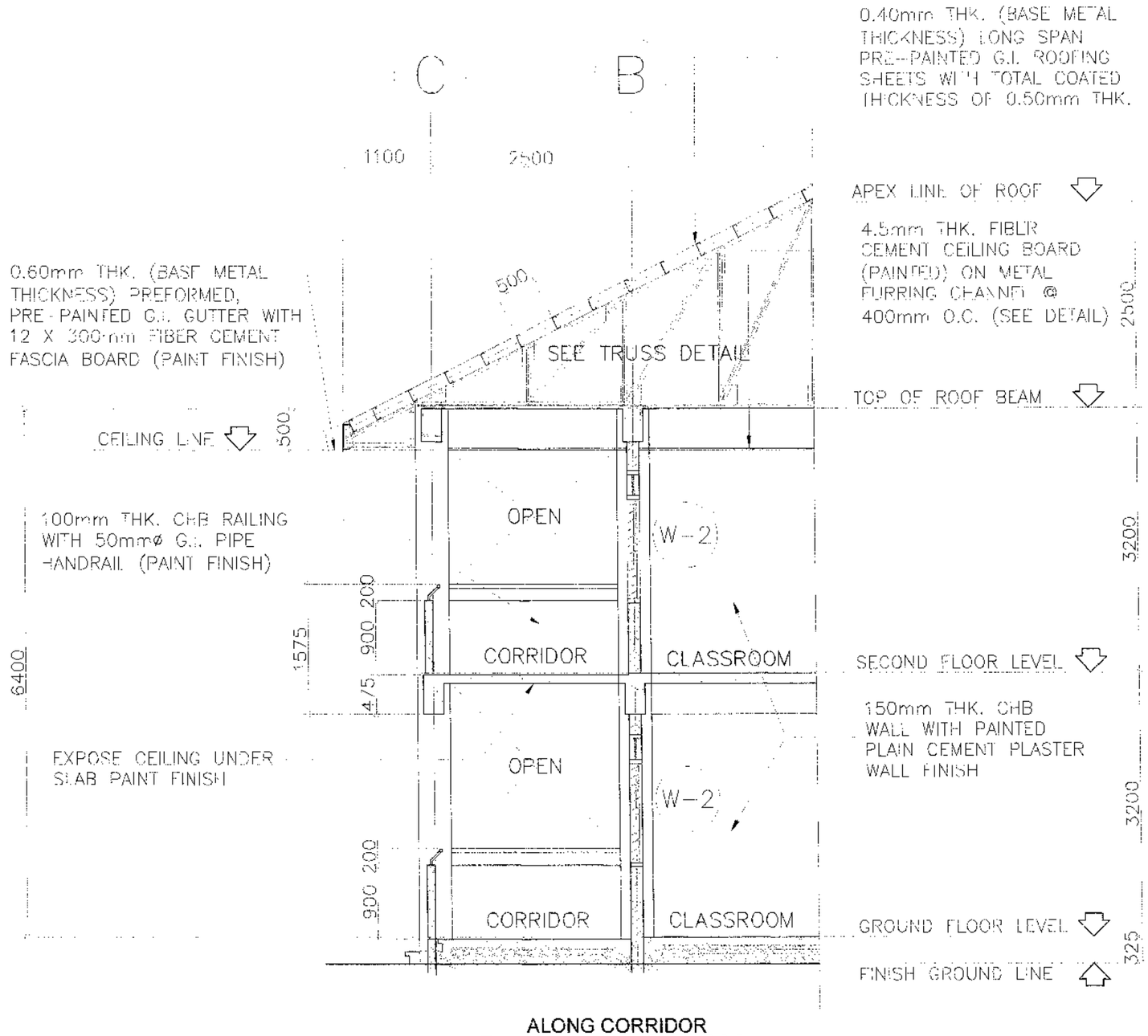
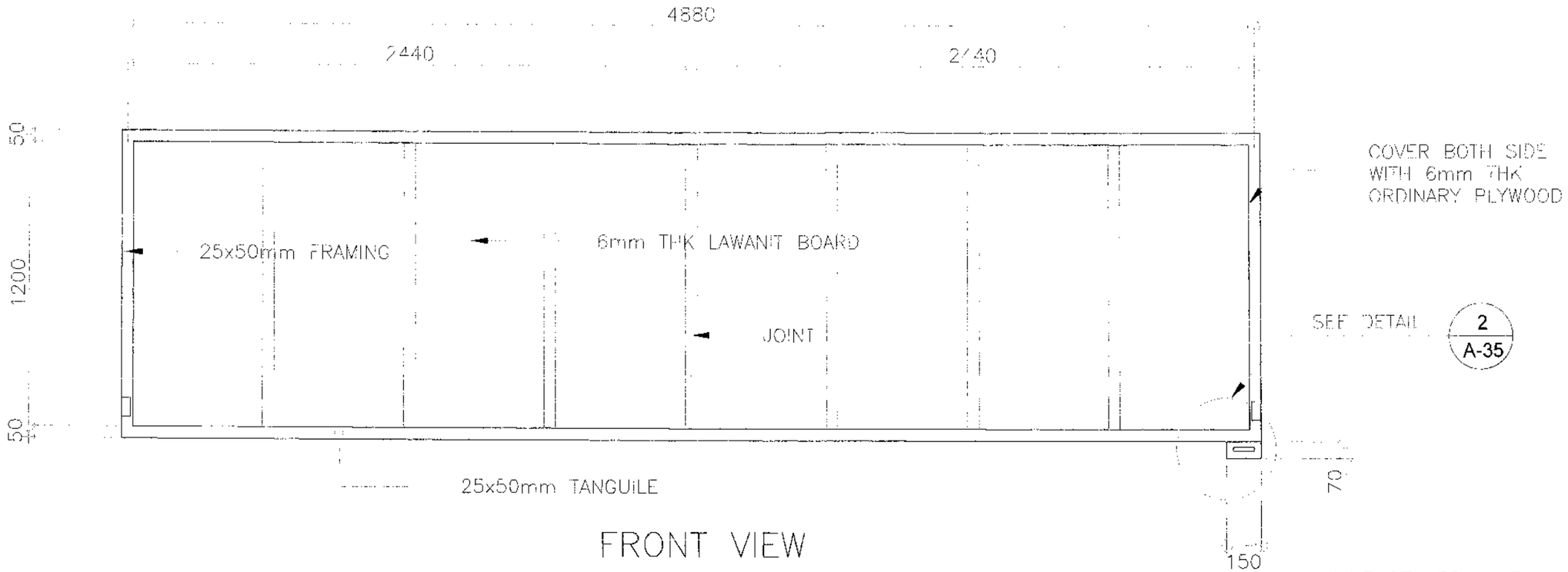
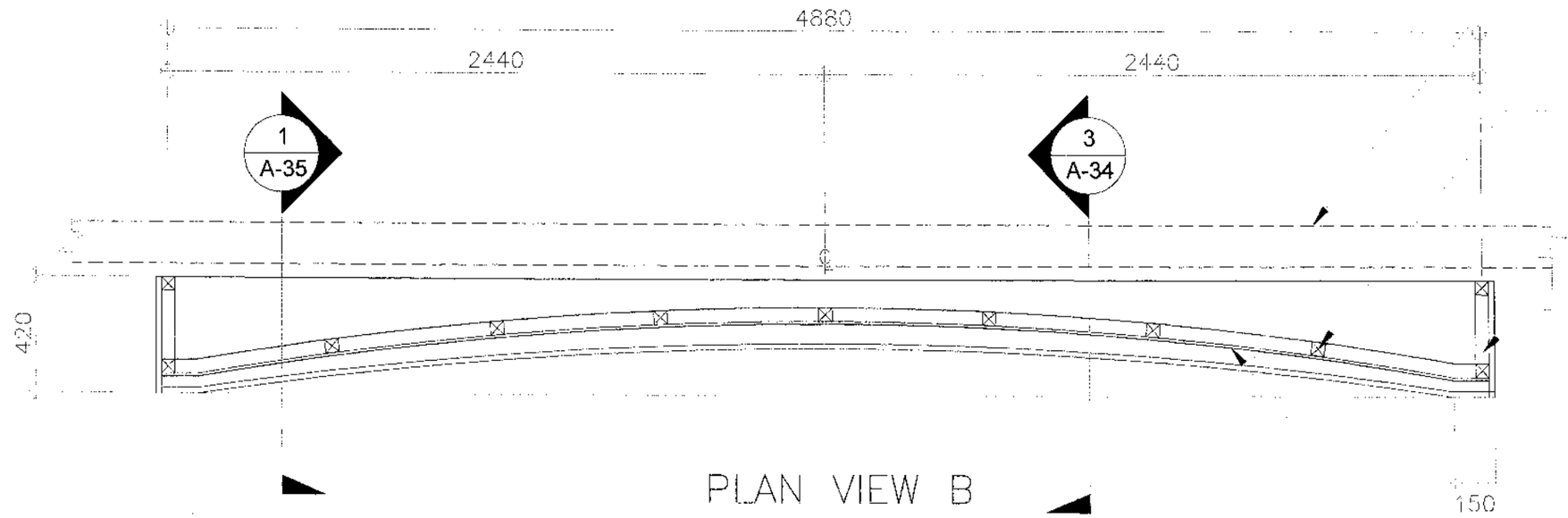


ALONG CORRIDOR
BAY SECTION
1 / A32 SCALE 1:60 METERS

REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS** REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED: DIXIE JANNA P. LOU C. SARMIENTO ARCHITECT I DATE:	REVIEWED: GRACE Y. COMALING ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE:	SUBMITTED: BRIAN C. VILLANUEVA ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE:	RECOMMENDED: MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE:	APPROVED: PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE:	SET NO 32 A40	SHEET NO 32 98



FRONT VIEW

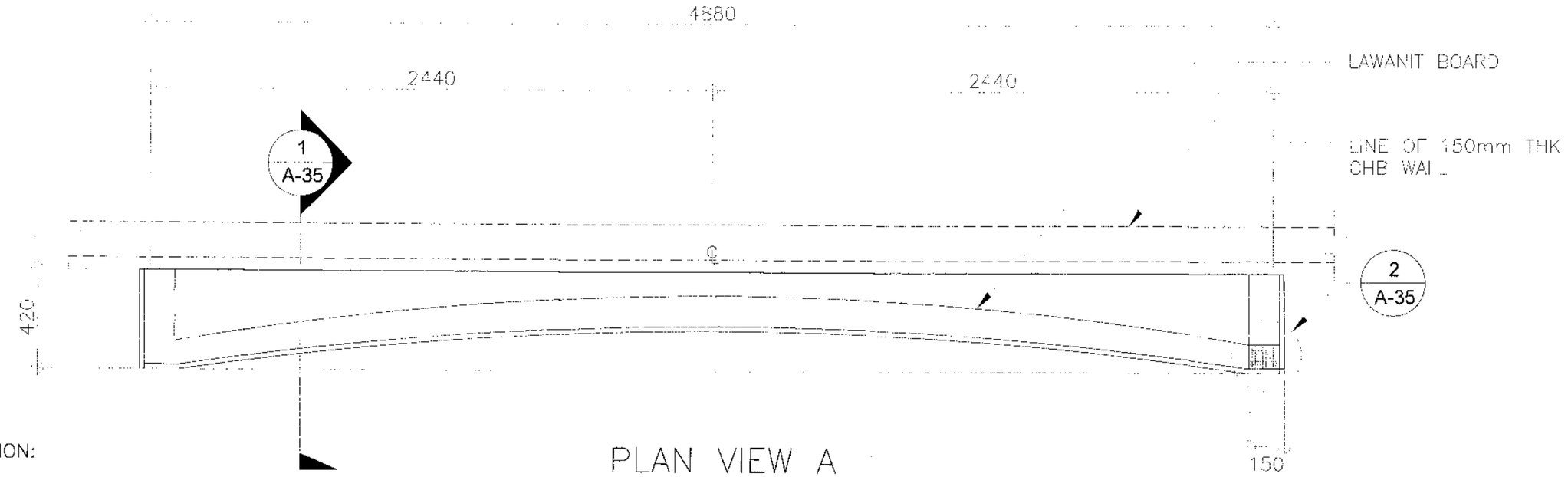


PLAN VIEW B
SECTION

1 A33 **BLACKBOARD DETAIL**

SCALE 1:20 METERS

REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS** REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR	SHEET CONTENTS • AS SHOWN	PREPARED DIXIE HANNAH LOO C. SARMIENTO ARCHITECT II DATE:	REVIEWED GRACE A. COMALING ENGINEER II ASST. CHIEF PLANNING & DESIGN SECTION DATE	SUBMITTED BRIAN P. VILLANUEVA ENGINEER III CHIEF PLANNING & DESIGN SECTION DATE	RECOMMENDED MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE:	APPROVED PABLO E. ESCUADRO, MPA DISTRICT ENGINEER DATE	SET NO. 33 A 40	SHEET NO 33 98



PLAN VIEW A

1 A34 **BLACKBOARD DETAIL**
SCALE 1:20 METERS

SPECIFICATION:

MATERIALS: -25 x 300mm SOLID TANGUILE OR EQUIVALENT WOOD FRAMES.

-6mm THK. PLYWOOD

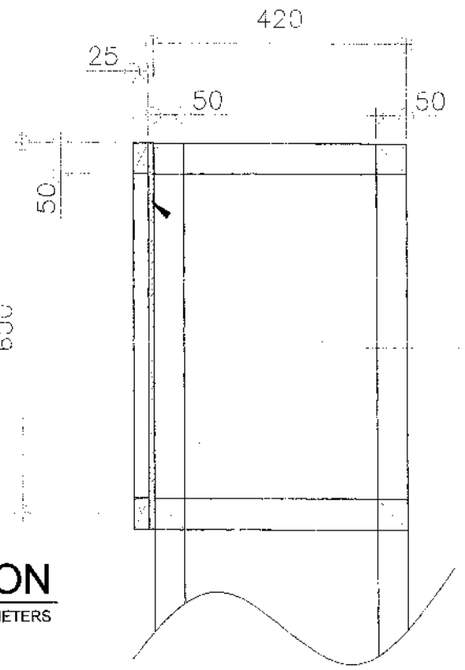
-6mm THK. LAWANIT BOARD

PROVIDE: -70 x 120 x 150mm CHALKDUST BOX

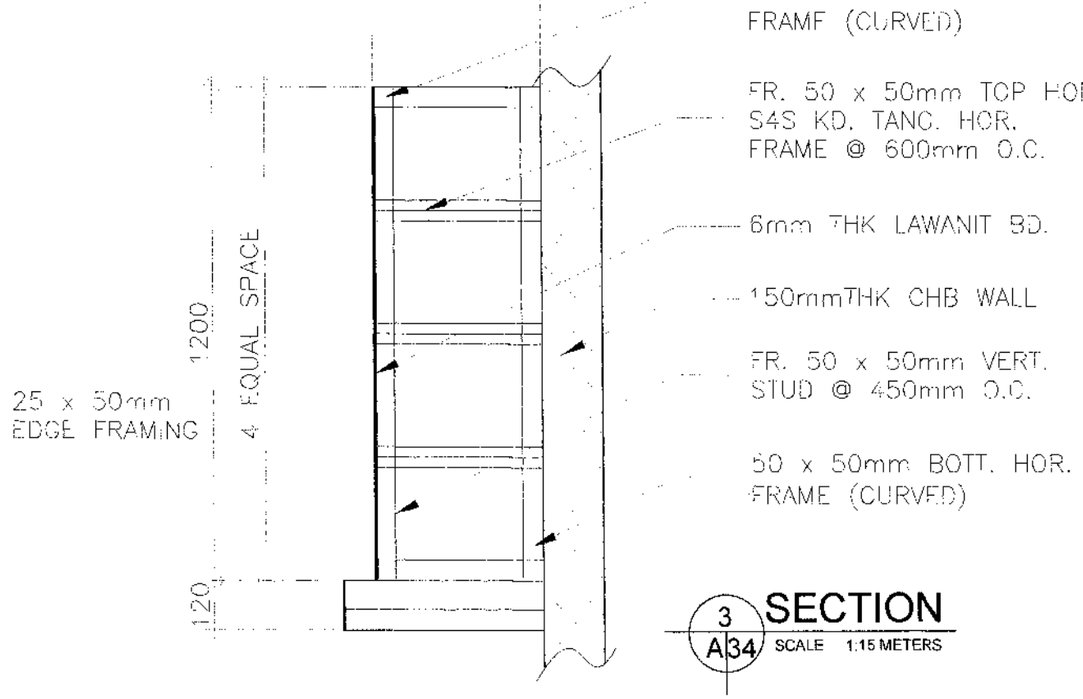
-2ø x 10 x 10mm MESHWIRE

FINISH: -FRAMING AND CHALKBOX PAINT WITH QUICK DRYING ENAMEL PAINT (BROWN

-BOARD PAINT WITH BLACKBOARD PAINT (GREEN) OR BLACKBOARD SLATE

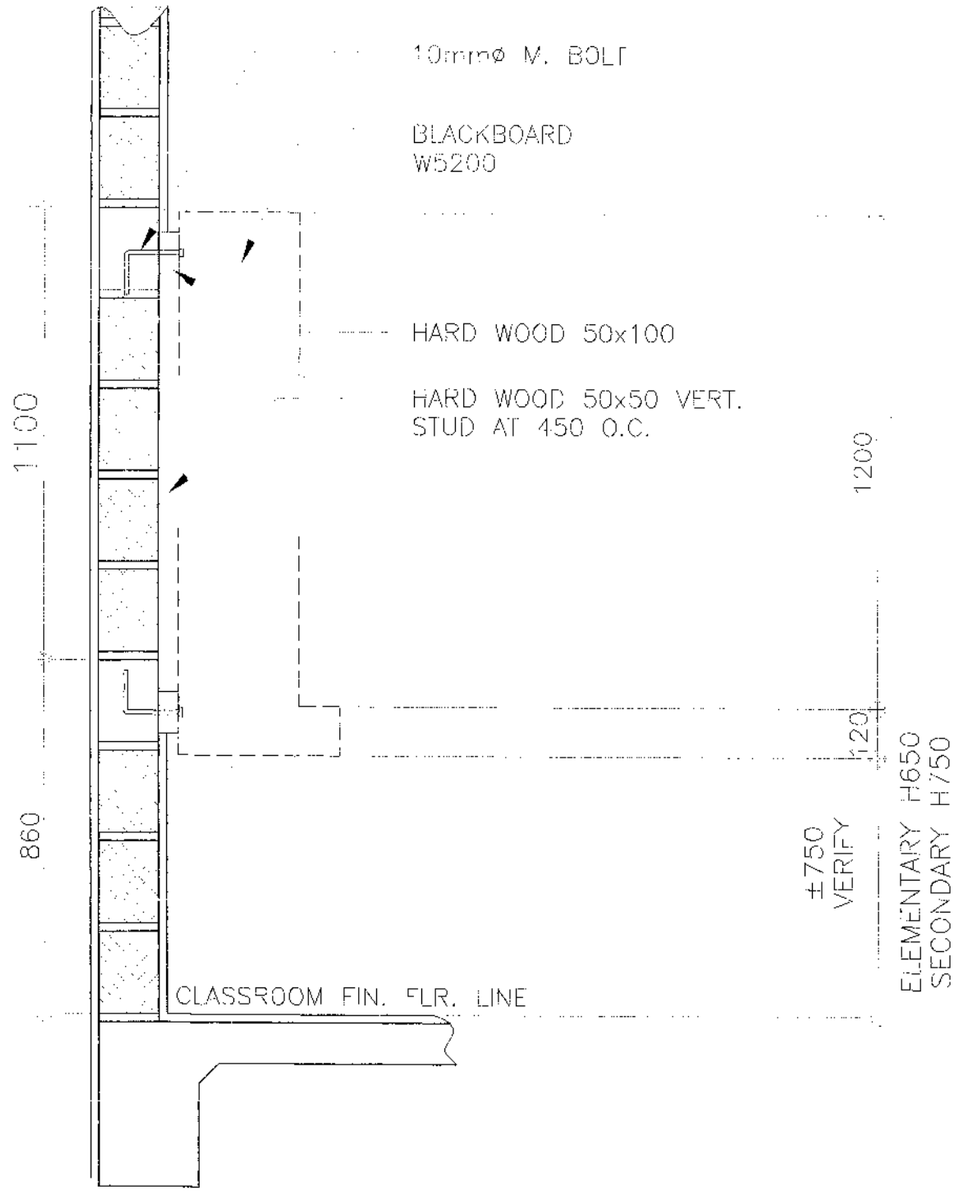


2 A34 (EDGE FRAMING) **SPOT DETAIL SECTION**
SCALE 1:10 METERS



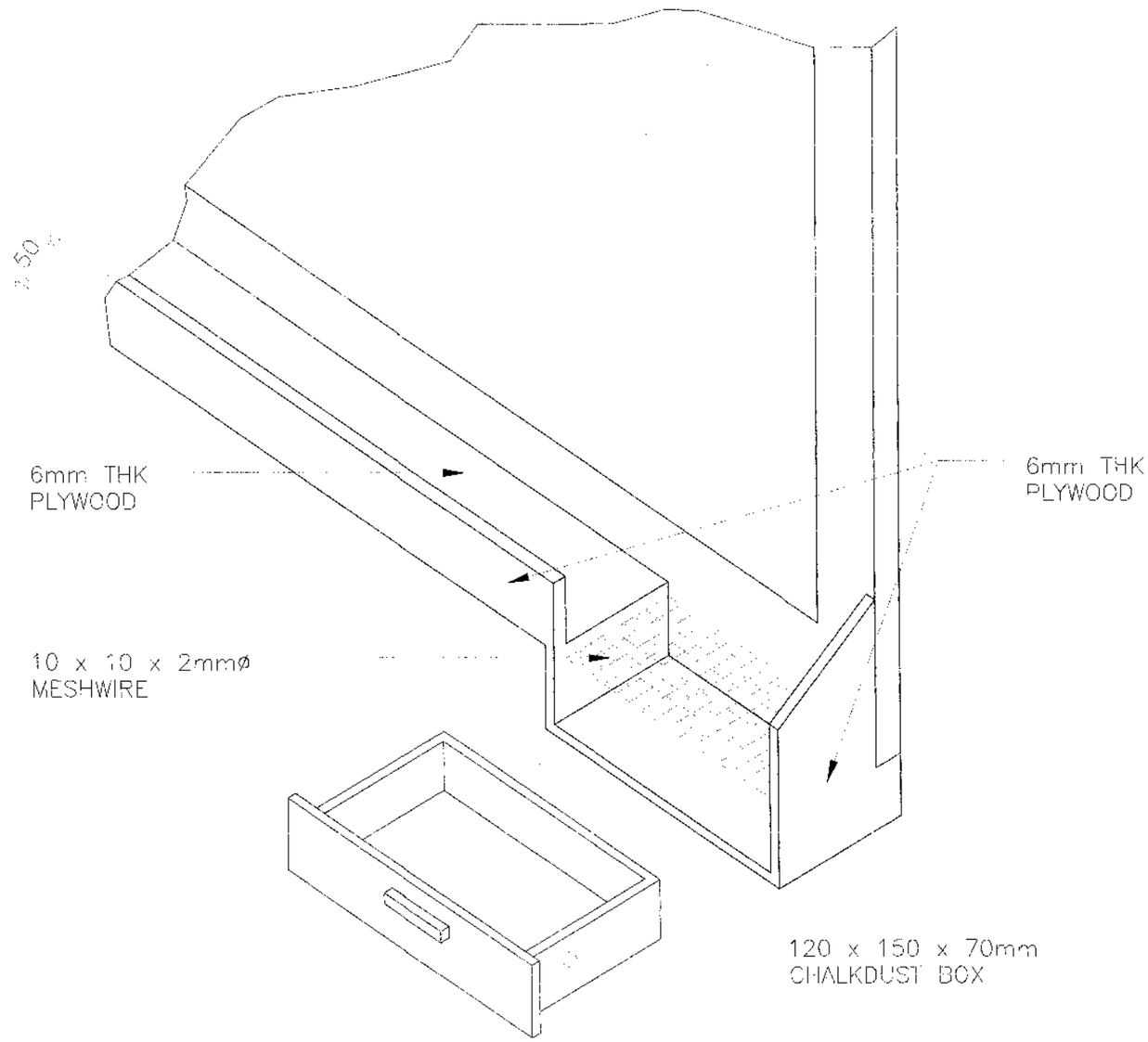
3 A34 **SECTION**
SCALE 1:15 METERS

REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS** REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED: **DIXIE HANNAH LOU C. SARMIENTO** ARCHITECT II DATE:	REVIEWED: **GRACE Y. COMALING** ENGINEER III ASST. CHIEF, PLANNING AND DESIGN SECTION DATE:	SUBMITTED: **BRIAN B. VILLANUEVA** ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE:	RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER DATE:	APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER DATE:	SHT NO. 34 A 40	SHEET NO. 34 98



1 A35 CONNECTION SECTION DETAIL

SCALE 1:15 METERS



2 A35 CHALK DUST BOX DETAIL

SCALE 1:15 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED: DIXIE HANNAH LOU C. SARMIENTO, ARCHITECT II, DATE: 04/29/22

REVIEWED: GRACE T. COMALING, ENGINEER II, ASST. CHIEF, PLANNING AND DESIGN SECTION, DATE: 04/29/22

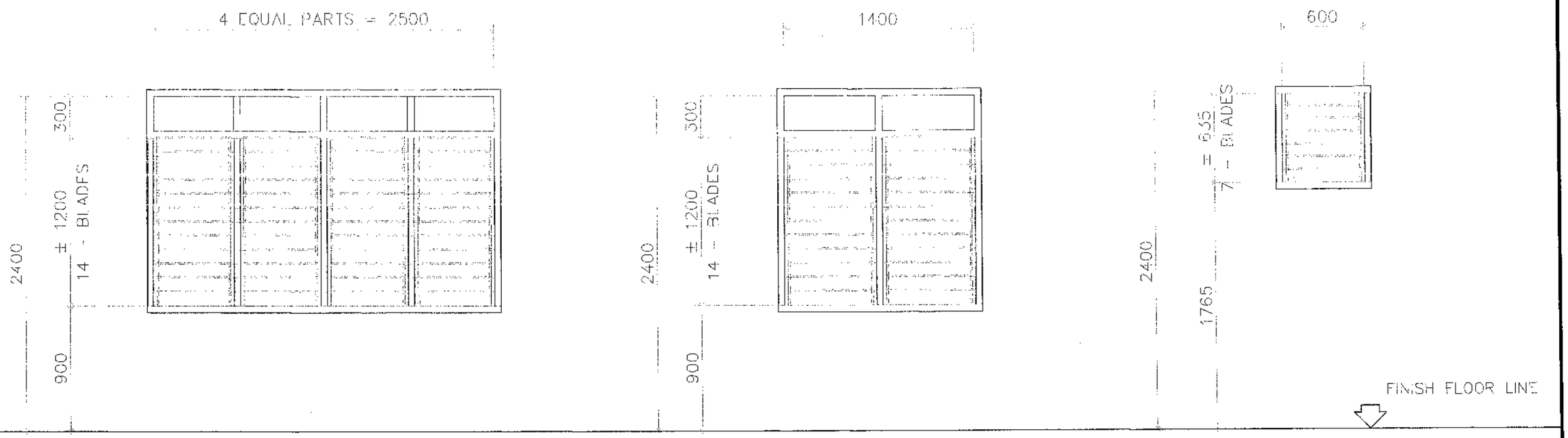
SUBMITTED: BRIAN B. VILLAREVA, ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION, DATE: 04/29/22

RECOMMENDED: MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE: 04/29/22

APPROVED: PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER, DATE: 04/29/22

SHT NO. 35 A40

SHEET NO. 35 98



W-1 CLASSROOM

5mm. THICK JALOUSIE WINDOWS WITH CLEAR GLASS BLADES ON STANDARD JALOUPLUS CASING AND FIXED CLEAR GLASS TRANSOM ON 50 x 150 MAHOGANY JAMB COMPLETE WITH HARDWARE AND ACCESSORIES

8-SETS

W-2 CLASSROOM

5mm. THICK JALOUSIE WINDOWS WITH CLEAR GLASS BLADES ON STANDARD JALOUPLUS CASING AND FIXED CLEAR GLASS TRANSOM ON 50 x 150 MAHOGANY JAMB COMPLETE WITH HARDWARE AND ACCESSORIES

8-SETS

W-3 TOILET

5mm. THICK JALOUSIE WINDOWS WITH CLEAR GLASS BLADES ON STANDARD JALOUPLUS CASING ON 50 x 150 MAHOGANY JAMB COMPLETE WITH HARDWARE AND ACCESSORIES

6-SETS

1 / A36 SCHEDULE OF DOORS AND WINDOWS

SCALE 1:30 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**

SHEET CONTENTS: • AS SHOWN

PREPARED: **DIXIE HANNAH LOU C. SARMIENTO**, ARCHITECT II, DATE 07/24/25

REVIEWED: **GRACE Y. COMALING**, ENGINEER III, ASST. CHIEF PLANNING AND DESIGN SECTION, DATE 08/28/25

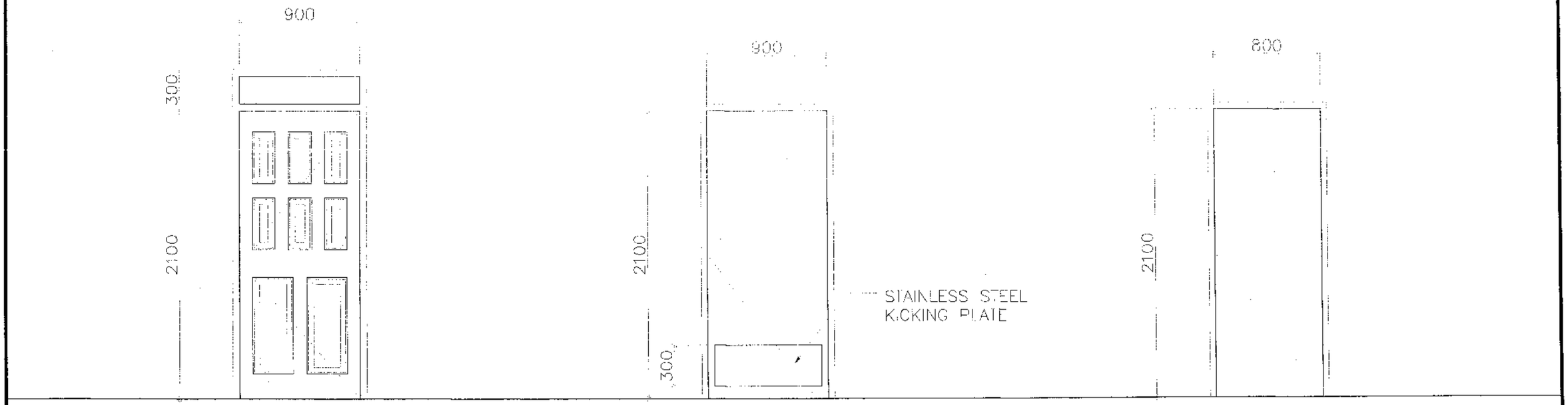
SUBMITTED: **BRIAN C. VILLANUEVA**, ENGINEER III, CHIEF PLANNING AND DESIGN SECTION, DATE 08/28/25

RECOMMENDED: **MARIA D. FLOREN**, ASSISTANT DISTRICT ENGINEER, DATE 09/29/25

APPROVED: **PABLO E. ESCUADRO JR.**, DISTRICT ENGINEER, DATE 09/29/25

SET NO. 36 / A40

SHEET NO. 36 / 98



(D-1) CLASSROOM

MAHOGANY PANEL DOOR ON 50 x 150mm THK. MAHOGANY JAMB WITH FIXED CLEAR GLASS TRANSOM COMPLETE WITH HARDWARE AND ACCESSORIES CYLINDER TYPE LOCKSET

8-SETS

(D-2) TOILET (DISABLED)

HOLLOW CORE FLUSH TYPE SWING DOOR ON 50x150mm MAHOGANY JAMB w/MARINE PLYWOOD FACING INSIDE AND ORDINARY OUTSIDE COMPLETE W/ HARDWARE AND ACCESSORIES PROVIDE KICK PLATE

1-SET

(D-3) TOILET

HOLLOW CORE FLUSH TYPE SWING DOOR ON 50x50mm MAHOGANY JAMB W/ MARINE PLYWOOD FACING INSIDE AND ORDINARY OUTSIDE COMPLETE W/ HARDWARE AND ACCESSORIES

6-SETS

(1/A37) SCHEDULE OF DOORS AND WINDOWS

SCALE 1:30 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED:
DIXIE SHARON LOU C. SARMIENTO
ARCHITECT II
DATE: 07/29/16

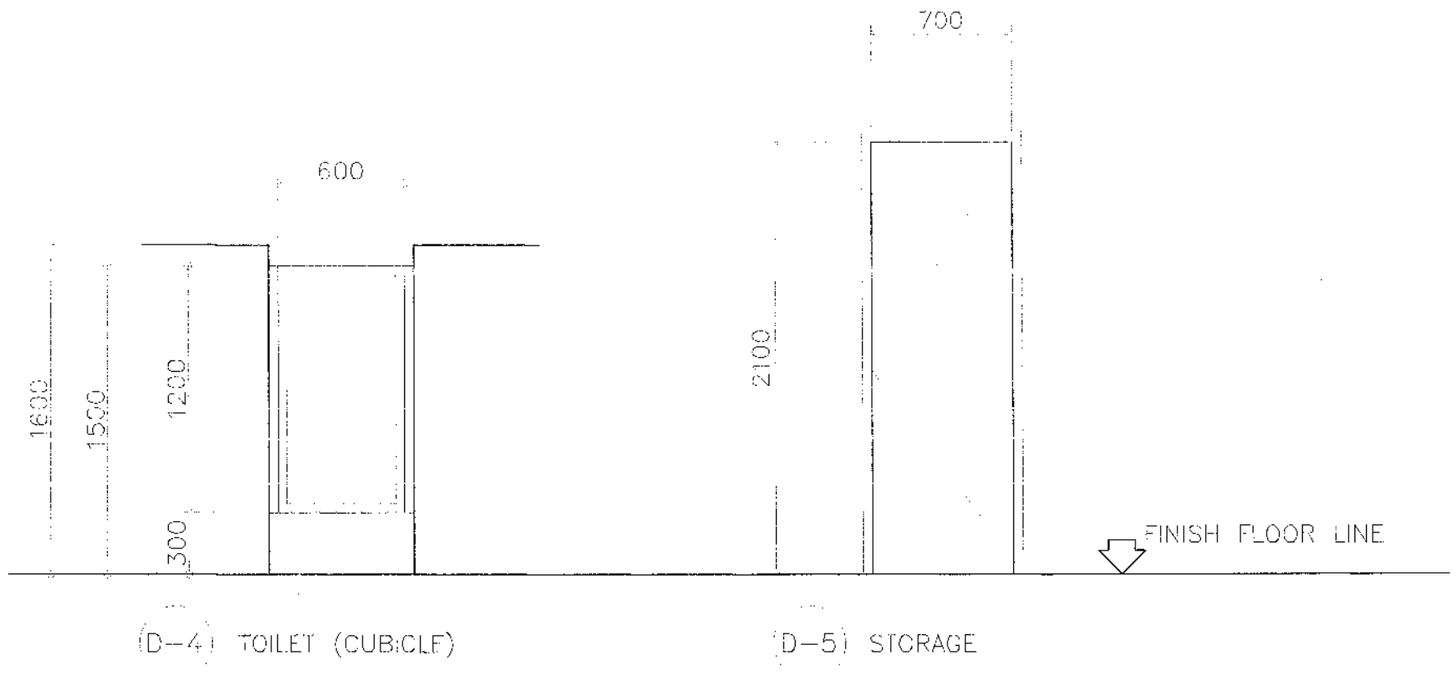
REVIEWED:
GRACE Y. COMALING
ENGINEER II
ASST. CHIEF, PLANNING & DESIGN SECTION
DATE: 07/29/16

SUBMITTED:
BRIAN R. VILLANUEVA
ENGINEER III
CHIEF, PLANNING & DESIGN SECTION
DATE: 07/29/16

RECOMMENDED:
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 07/29/16

APPROVED:
PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE: 07/29/16

SET NO. 37 A 40
SHEET NO. 37 98



(D-4) TOILET (CUBICLE)

(D-5) STORAGE

FOLLOW CORE FLUSH TYPE SWING DOOR ON 50X100 MAHOGANY DOOR JAMB COMPLETE WITH HARDWARE ACCESSORIES

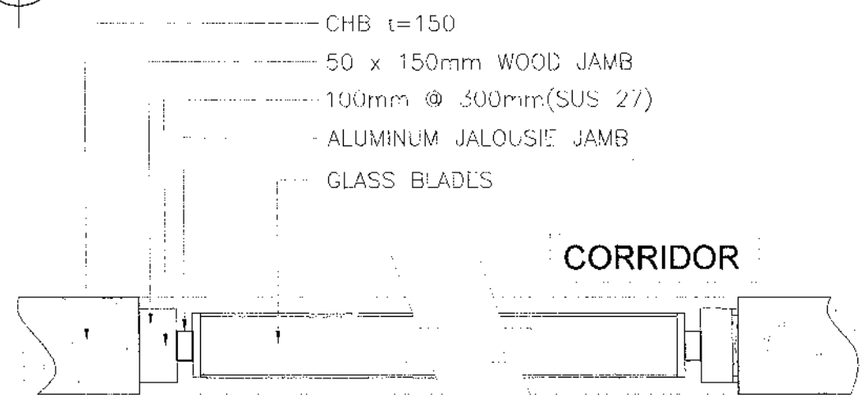
8-SETS

HOLLOW CORE FLUSH TYPE SWING DOOR WITH MARINE PLYWOOD FACING

5-SETS

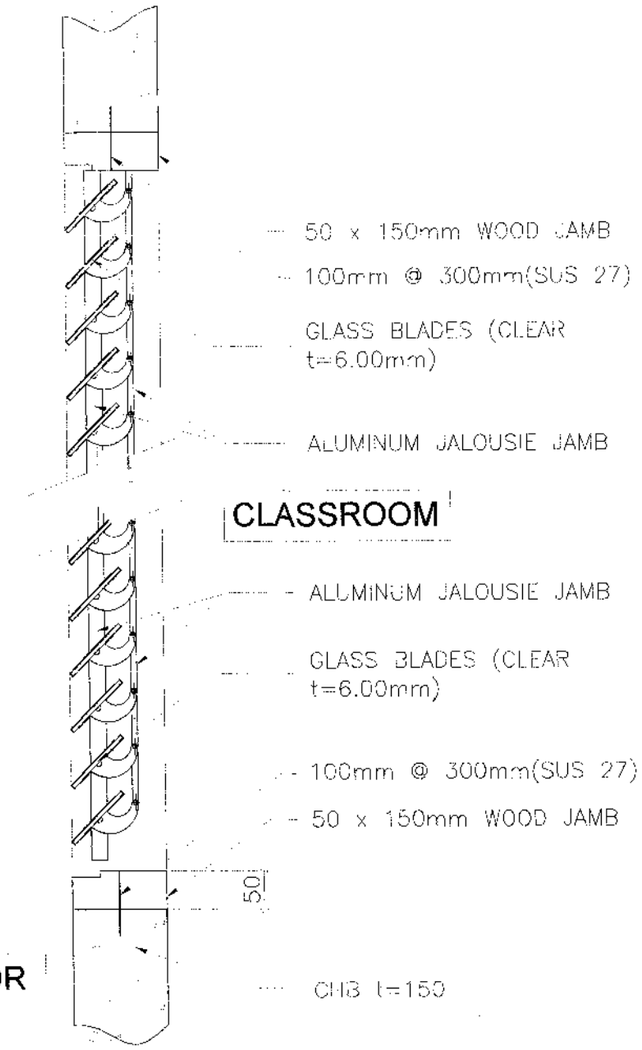
1 A38 SCHEDULE OF DOORS AND WINDOWS

SCALE 1:30 METERS



2 A38 GLASS JALOUSIE TYPICAL DETAIL PLAN

SCALE 1:8 METERS



3 A38 GLASS JALOUSIE TYPICAL DETAIL SECTION

SCALE 1:8 METERS

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED: DIXIE CARINAY LOU C. SARMIENTO, ENGINEER I, DATE: 7/29/25

REVIEWED: GRACE Y. COMALING, ENGINEER II, ASST. CHIEF, PLANNING AND DESIGN SECTION, DATE: 7/29/25

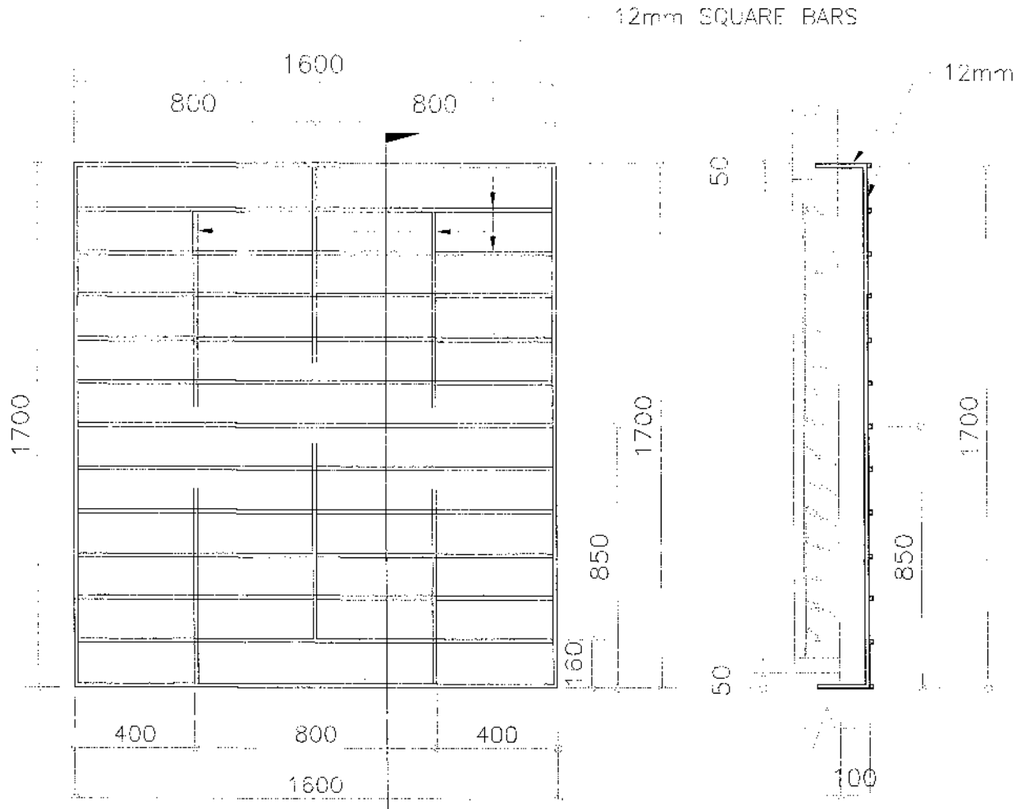
SUBMITTED: [illegible], ENGINEER III, CHIEF, PLANNING AND DESIGN SECTION, DATE: 7/29/25

RECOMMENDED: MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE: 7/29/25

APPROVED: PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER, DATE: 7/29/25

SET NO. 38 A40

SHEET NO. 38 98

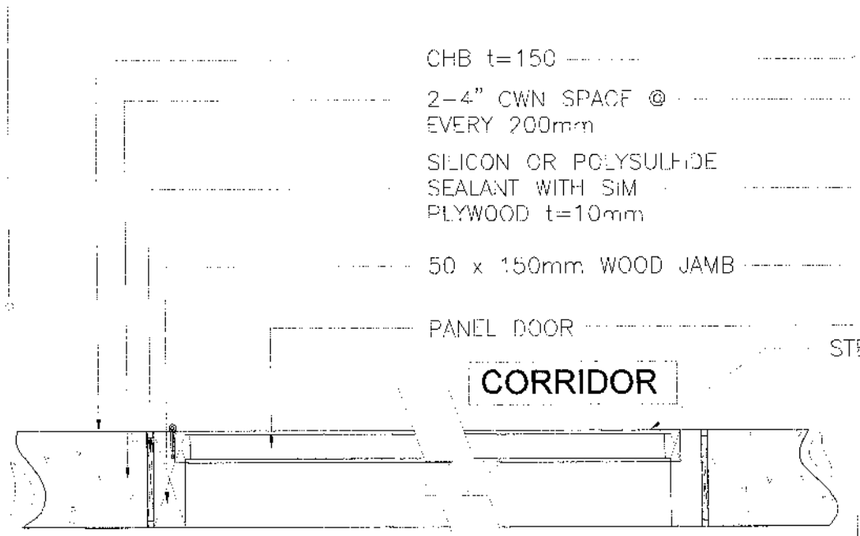


ELEVATION A

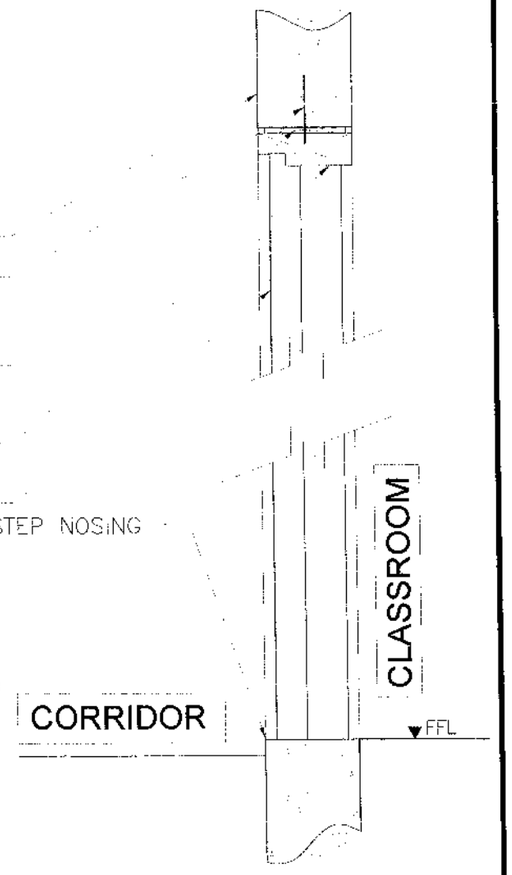
SECTION-A

1 A39 TYPICAL OF WINDOW GRILL FOR W-2

SCALE 1:20 METERS



DETAIL PLAN

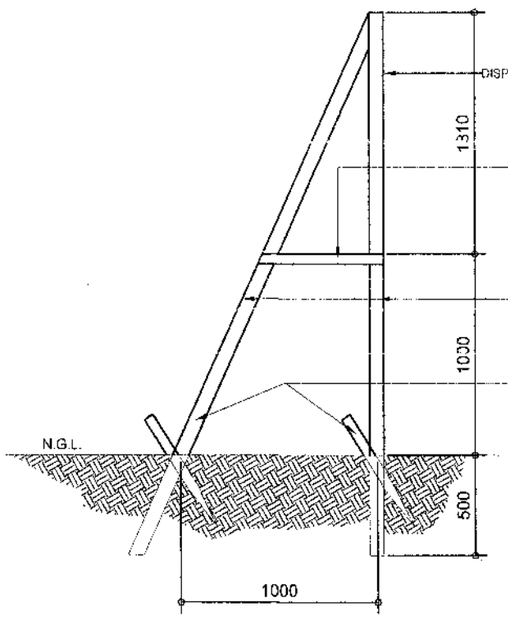


DETAIL SECTION

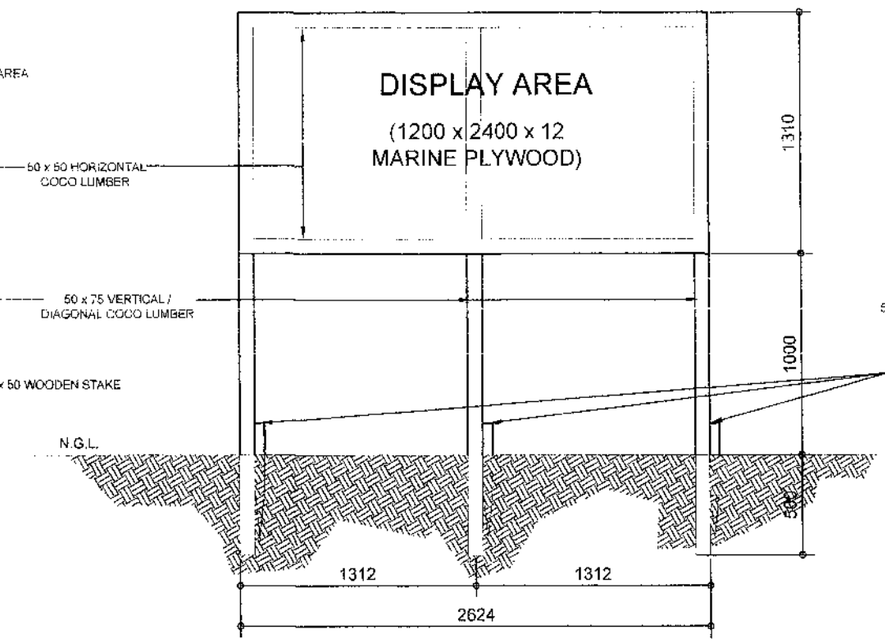
2 A39 TYPICAL OF DETAIL OF DOOR FRAME

SCALE 1:8 METERS

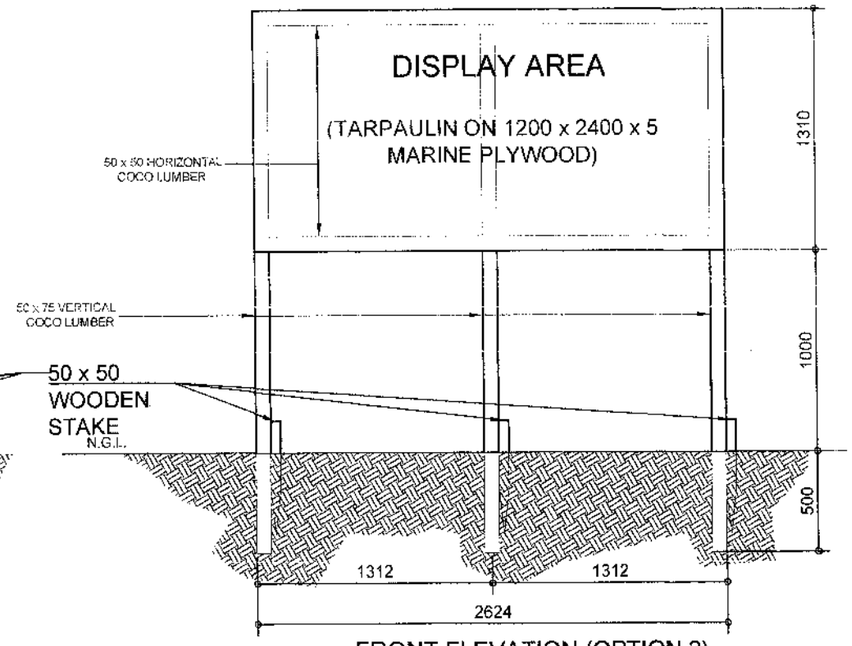
REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS** REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR	SHEET CONTENTS: • AS SHOWN	PREPARED: DIXIE ANNA LOU C. SARMIENTO ARCHITECT II DATE:	REVIEWED: GRACEY ODMALING ENGINEER II ASST. CHIEF, PLANNING AND DESIGN SECTION DATE:	SUBMITTED: BRIAN E. DELA CUEVA ENGINEER III CHIEF, PLANNING AND DESIGN SECTION DATE:	RECOMMENDED: MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE:	APPROVED: PABLO L. ESCUDERO, MPA DISTRICT ENGINEER DATE:	SET NO. 39 A 40	SHEET NO. 39 98



TYPICAL FRAME ELEVATION



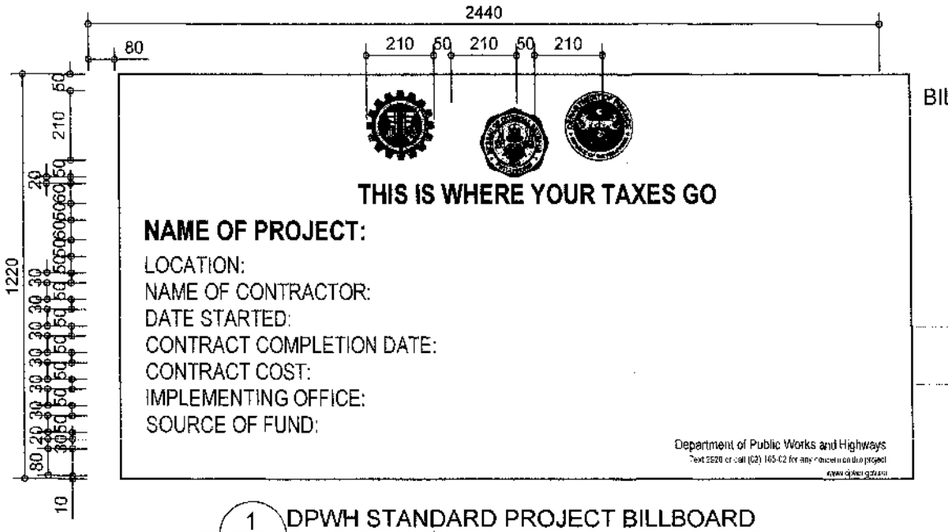
FRONT ELEVATION (OPTION 1)



FRONT ELEVATION (OPTION 2)

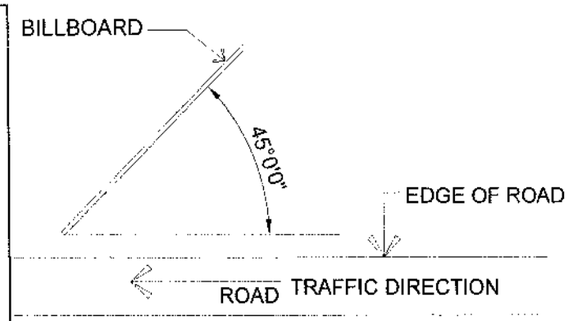
DETAIL OF BILLBOARD FRAME

NOT TO SCALE



1 / A40 DPWH STANDARD PROJECT BILLBOARD

NOT TO SCALE



ORIENTATION

NOT TO SCALE

N O T E : GUIDELINES IN THE PREPARATION AND INSTALLATION OF PROJECT BILLBOARD (*PER D.O. 141 S. 2016*)

1. The new billboard design layout and dimension (see attached drawing) shall be installed on a standard billboard measuring 1200 mm x 2400 mm (4ft. x 8ft.) using 12 mm (1/2 inch) thick marine plywood or tarpaulin posted on 5 mm (3/16 inch) marine plywood.

2. For each building project, the billboard shall be installed in front of the project site.

3. Name(s) and/or picture(s) of any personages should not appear in the billboard.

4. No political billboard shall be allowed to be installed 100 meters before and 100 meters after all DPWH projects and in between the project limits or within the road right-of-way.

5. DPWH contractors shall not be allowed to place names of politicians on their equipment or carry political billboard on their equipment.

REPUBLIC OF THE PHILIPPINES
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REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
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PROJECT NAME AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED: DIXIE HANNAH LOUC SARMIENTO, ARCHITECT, DATE: 04/29/25

REVIEWED: GRACE Y. GOMALING, ENGINEER II, ASST. CHIEF PLANNING AND DESIGN SECTION, DATE: 04/29/25

SUBMITTED: BRENT E. MIRANDILLA, ENGINEER V, CHIEF, PLANNING AND DESIGN SECTION, DATE: 04/29/25

RECOMMENDED: MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER, DATE: 04/29/25

APPROVED: PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER, DATE: 04/29/25

SET NO. 40 / A40 | SHEET NO. 40 / 98

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 (N.S.C.P.). VOL. 1, 6TH EDITION, 2010.

2.0 DESIGN CRITERIA

2.1 LOADINGS

A. DEAD LOAD

CONCRETE	$-23.56 kN/m^3$
STEEL	$-76.93 kN/m^3$
150mm THK. CHB WALL	-2.73 kPa
100mm THK. CHB WALL	-2.11 kPa

B. LIVE ROAD

ROOF	-1.00 kPa
CLASSROOMS	-1.90 kPa
TOILETS	-2.40 kPa
CORRIDORS ABOVE, STAIRS	-3.80 kPa
CORRIDORS ON GROUND	-4.80 kPa

C. WIND LOAD (NSCP 2010)

BASIC WIND VELOCITY, V = 250 KPH

P = qh [(GCpf)−(GCpi)] (DESIGN WIND PRESSURE)

WHERE: qh = VELOCITY PRESSURE (kPa)
GCpf = EXTERNAL PRESSURE COEFFICIENT
GCpi = INTERNAL PRESSURE COEFFICIENT

D. SEISMIC LOAD (NSCP 2010)

$$V = \frac{Cvl}{RT} W \qquad \text{(DESIGN BASE SHEAR)}$$

$$Vmax = \frac{2.50\ Cal}{R} W \qquad Vmin = 0.11\ Cal\ W$$

$$Vmin = \frac{0.80\ ZNvI}{R} W \text{ (ZONE 4)}$$

WHERE: W = TOTAL DEAD LOAD
T = NATURAL PERIOD = $C_t(h_n)^{2/3}$;
WHERE: C = NUMERICAL COEFFICIENT
h = BUILDING HEIGHT
I = IMPORTANCE FACTOR = 1.50
R = NUMERICAL FACTOR = 8.50
SEISMIC COEFFICIENT Cv = 0.44Nv
Ca = 0.64Na
NEAR SOURCE FACTOR (10km) Nv = 1.2
Na = 1.0
Z = SEISMIC ZONE = 0.40 (ZONE 4)
S = SOIL TYPE = D

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

2.2 DESIGN STRESSES

A. CONCRETE
COMPRESSIVE STRENGTH @ 28 DAYS fc' = 20.7 MPa (3,000 psi)
B. REINFORCING BARS
a. FOR BARS 16mmø AND GREATER fy = 275 MPa (40,000 psi)
b. FOR BAPS LESS THAN 16mmø fy = 230 MPa (33,000 psi)
C. STRUCTURAL STEEL, ASTM−A36
FOR TRUSSES, BRACINGS, & STRUTS fy = 248 MPa (36,000 psi)
D. PURLINS
COLD FORMED LIGHT GAGE SHAPES fy = 248 MPa (36,000 psi)
E. MASONRY UNIT (CHB)
NON−LOAD BEARING CHB WALLS fm' = 3.45 MPa (500 psi)
F. WELDS−USED E−60xx ELECTRODE
G. STRUCTURAL BOLTS, ASTM−A307
a. Ft = 96.60 MPa (14,000 psi) b. Fv = 69 MPa (10,000 psi)

3.0 FOUNDATION

3.1 ASSUMED SOIL BEARING CAPACITY SHALL BE 96 KPa (2,000 PSF)

3.1.1 IN CASE THE ACTUAL LOCATION OF THE STRUCTURE IS LESS THAN THE ASSUMED DISTANCE FROM THE SEISMIC SOURCE OF 40km; NOTIFY THE DIRECTOR, BUREAU OF DESIGN FOR PROPER REVISION OF THE DESIGN. REFER TO THE SEISMIC SOURCE MAP PROVIDED IN THE NATIONAL STRUCTURAL CODE OF THE PHILIPPINES OR PHIVOLCS SEISMIC SOURCE MAP.
3.1.2 SOIL TEST SHALL BE CONDUCTED PRIOR TO START OF CONSTRUCTION.
3.1.3 IN CASE THE ACTUAL SOIL BEARING CAPACITY IS FOUND LESS THAN THE ASSUMED, 96 KPa, NOTIFY THE DIRECTOR, BUREAU OF DESIGN FOR PROPER REVISION OF FOUNDATION.
3.1.4 NO FOOTING SHALL REST ON FILL.
3.1.5 BOTTOM OF FOOTING SHALL BE AT LEAST 1.00m. BELOW NATURAL GRADE LINE.
3.1.6 SOIL BEARING CAPACITY SHALL BE INCREASED BY 33% WHEN IN COMBINATION WITH SEISMIC OR WIND LOAD.

3.2 ALL COLUMN FOOTINGS & TIE BEAMS SHALL REST ON 100mm THK. WELL COMPACTED GRAVEL BASE COURSE.

3.3 BACK FILL SHALL BE PLACED IN LAYER AND EACH LAYER SHALL BE 200mm THK. AND SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY.

3.4 WHERE LOOSE/SOFT MATERIAL IS ENCOUNTERED AT DEPTH OF EMBEDMENT INDICATED, EXCAVATE TO FIRM LAYER AND REPLACE LOOSE/MATERIALS UNDERNEATH THE FOOTING WITHIN THE FOOTING AREA PLUS 1/2 DEPTH OF SOFT MATERIAL ON ALL SIDES WITH SELECT GRANULAR BACKFILL. COMPACT SELECT GRANULAR BACKFILL TO 95% OF MAXIMUM DRY DENSITY.

4.0 MATERIALS

4.1 CONCRETE

4.1.1 CONCRETE COVER OVER REINFORCING BARS SHALL BE AS FOLLOWS:

A. FOOTINGS, FOOTING−TIE BEAMS (CAST AGAINST EARTH)	75mm
B. BEAMS AND COLUMNS (TO STIRRUPS AND TIES)	40mm
C. WALLS, SIDE OF FOOTING−TIE BEAMS (CAST AGAINST FORMS)	40mm
D. SUSPENDED SLAB	20mm

4.1.2 BEFORE CONCRETE IS POURED, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, ETC. RELATING TO THE WORK.

4.2 REINFORCING BARS

4.2.1 ALL REINFORCING BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS THAT WILL IMPAIR BOND.

4.2.2 ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE OR APPLYING MORTAR OR GROUT.

4.2.3 LAPPED SPLICES SHALL BE STAGGERED WHERE POSSIBLE.

4.2.4 UNLESS OTHERWISE INDICATED, SPLICING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI−318M, EXCEPT THAT THE MINIMUM LAP SPLICE SHALL BE 40 BAR DIAMETER BUT NOT LESS THAN 600mm.

4.2.5 UNLESS SHOWN OTHERWISE ON PLANS, SPLICES SHALL BE AS FOLLOWS:

A. INTERMEDIATE BEAMS: TOP BARS SHALL BE SPLICED AT MID−SPAN, AND BOTTOM BARS AT THE SUPPORT.
B. BEAMS FRAMING TO COLUMNS: TOP BARS SHALL BE SPLICED AT MID−SPAN AND BOTTOM BARS SHALL NOT BE SPLICED W/IN THE COLUMN OR W/IN A DISTANCE OF TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. THE SPLICED LENGTH SHALL NOT BE LESS THAN 1.4 TIMES THE DEVELOPMENT LENGTH (Ld) IN 4.2.8. BELOW BUT NOT LESS THAN 600mm.

1/S1 GENERAL NOTES AND STANDARD DETAILS

SCALE NOT TO SCALE

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
• AS SHOWN

PREPARED: CARMELITO A. PENALESOR, ENGINEER II — DATE: 04/09/25

REVIEWED: GRACE Y. COMALING, ENGINEER II, ASST. CHIEF [illegible] SECTION — DATE: 04/09/25

SUBMITTED: GLENN B. VILLANUEVA, ENGINEER II, CHIEF [illegible] SECTION — DATE: 04/09/25

RECOMMENDED: MARIA U. FLORENI, ASSISTANT DISTRICT ENGINEER — DATE: 04/09/25

APPROVED: PABLO L. ESCUADROMPA, DISTRICT ENGINEER — DATE: 04/09/25

SET NO: 01 S37

SHEET NO: 41 98

C. COLUMNS: LAP SPLICES SHALL BE MADE WITHIN THE CENTER HALF OF HEIGHT AND THE SPLICE SHALL NOT BE LESS THAN 30 BAR DIAMETER. WELDING OR THE USE OF APPROVED MECHANICAL DEVICES MAY BE PERMITTED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR SPLICED AT ANY LEVEL AND THE MINIMUM VERTICAL DISTANCE BETWEEN TWO ADJACENT BAR SPLICES SHALL BE 600mm.

D. CHB WALLS: VERTICAL BARS SHALL BE SPLICED AT THE TOP OF WALL FOOTINGS OR FOOTING--TIE BEAMS AND AT THE BOTTOM OF REINFORCED CONCRETE LINTEL BEAMS OR BEAMS.

4.2.6 UNLESS OTHERWISE INDICATED: ALL BEAMS TERMINATING AT A COLUMN SHALL HAVE TOP AND BOTTOM BARS EXTENDING TO THE FAR FACE OF THE COLUMN, TERMINATING IN A STANDARD 90° HOOK LENGTH OF ANCHORAGE WHICH SHALL NOT BE LESS THAN 600mm.

4.2.7 SHOP DRAWING FOR REINFORCEMENT SHALL BE SUBMITTED FOR APPROVAL OF THE ENGINEER PRIOR TO FABRICATION & INSTALLATION.

4.2.8 DEVELOPMENT LENGTH (Ld) OF REINFORCING BARS SHALL BE AS FOLLOWS:

SIZE OF REBARS	DEVELOPMENT LENGTH
10 mm	170 mm
12 mm	220 mm
16 mm	270 mm
20 mm	380 mm
25 mm	600 mm

4.3 STRUCTURAL STEEL

4.3.1 ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 AND SHALL HAVE A MINIMUM YIELD STRESS, Fy = 248 MPa (36,000 psi)
4.3.2 ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE AS AMMENDED TO DATE.
4.3.3 ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE INDICATED.
4.3.4 SHOP AND FIELD WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 AND PERFORMED BY QUALIFIED WELDERS.
4.3.5 UNLESS OTHERWISE INDICATED, WELDING ELECTRODES SHALL BE E60.
4.3.6 NO STEEL SHALL BE FABRICATED OR ERECTED UNTIL SHOP DRAWINGS HAVE BEEN APPROVED BY THE STRUCTURAL ENGINEER.
4.3.7 WELDS/(CONFORM WITH AMERICAN WELDING STANDARDS) USING E 60xx ELECTODES. fy = 93.77 MPa.
4.3.8 ANCHOR BOLTS (CONFORM WITH ASTM A-307) ft = 96.60 MPa. fv = 69 MPa.

4.4 CONCRETE HOLLOW BLOCKS (CHB):

4.4.1 UNLESS OTHERWISE INDICATED, CHB USED IN THIS WORK SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH f'm = 3.45 MPa (500 psi)

4.4.2 ALL CHB CELLS SHALL BE FILLED SOLIDLY WITH GROUT.

5.0 CONSTRUCTION JOINT

5.1 CONSTRUCTION JOINT NOT INDICATED ON THE PLANS SHALL BE MADE SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER EXCEPT SLAB ON GRADE.

5.2 UNLESS SHOWN OTHERWISE, SLAB ON GRADE SHALL HAVE CONTROL JOINTS SPACED AT 6000mm MAXIMUM CENTER TO CENTER.

5.3 BEAMS CONSTRUCTION JOINT SHALL BE LOCATED W/ IN THE MIDDLE THIRD OF THE SPAN. IT SHALL BE PROVIDED WITH 3 EXTRA STIRRUPS @ 75mm O.C. ON EACH SIDE OF THE JOINT.

1 / S 2 GENERAL NOTES AND STANDARD DETAILS
SCALE NOT TO SCALE

NOTE:
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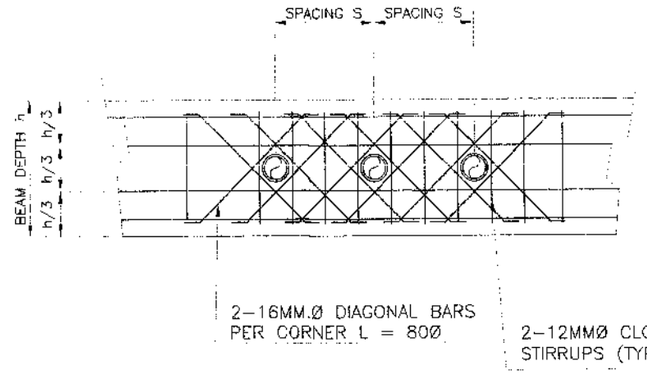
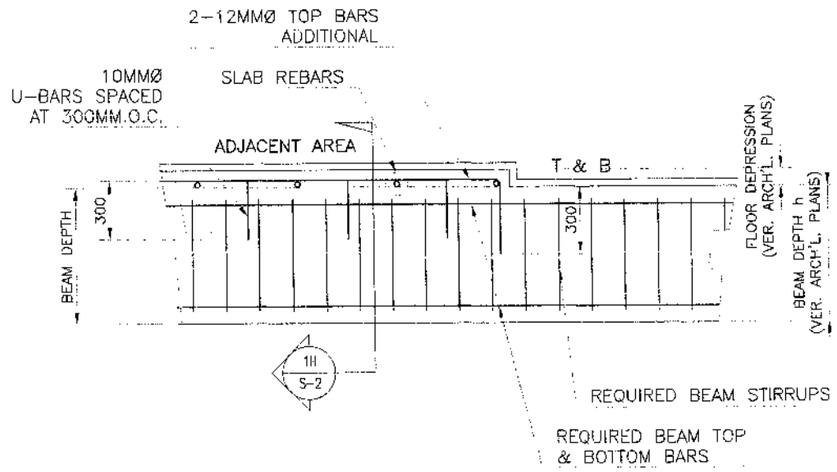


NOTE :

1. CENTER TO CENTER SPACING OF PIPE SLEEVES SHALL IN NO CASE BE LESS THAN 3 TIMES THE SLEEVE DIAMETER.
2. PIPE SLEEVES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
3. PIPE SLEEVES SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN 1/3 THE OVERALL DEPTH OF THE BEAM.
4. PIPE SLEEVES SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE BEAM DEPTH.
5. PIPE SLEEVES SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF BEAM CLEAR SPAN.

1A / S 2 TYP. BEAM PENETRATION DETAIL
SCALE NOT TO SCALE



1B / S 2 BEAM DET. FOR T&B DEPRESSION
SCALE NOT TO SCALE

REPUBLIC OF THE PHILIPPINES
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PROJECT NAME AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS: • AS SHOWN

PREPARED: CARMELITO A. PEÑALES JR., ENGINEER II, DATE 07/24/22
REVIEWED: GRACE O. COMALING, ENGINEER II, ASST. CHIEF-PLANNING & DESIGN SECTION, DATE 07/28/22
SUBMITTED: BRIAN R. VILLANUEVA, ENGINEER II, CHIEF-PLANNING & DESIGN SECTION, DATE 07/28/22
RECOMMENDED: MARIA LI FLOREN, ASSISTANT DISTRICT ENGINEER, DATE 07/29/22
APPROVED: PABLO L. ESCUADRO, MPA, DISTRICT ENGINEER, DATE 07/29/22

SET NO. 02 S37 | SHEET NO. 42 98

SPLICING REQUIREMENT OF REINFORCING BARS "Ls" or "Ld"

BEAMS					COLUMNS			FLOOR SLABS	
BAR SIZE	SINGLE & 2 BAR BUNDLE		THREE BAR BUNDLE		BAR SIZE	VERTICAL REINFORCEMENT		BAR SIZE	SINGLE & 2 BAR BUNDLE
	BOTTOM BARS	TOP BARS	BOTTOM BARS	TOP BARS		SINGLE & 2 BAR BUNDLE	THREE BAR BUNDLE		
16Ø	600MM.	750MM.	800MM.	925MM.	20Ø	1000MM.		10Ø	400MM.
20Ø	750MM.	950MM.	900MM.	1200MM.	25Ø	1500MM.		12Ø	500MM.
25Ø	925MM.	1200MM.	1100MM.	1450MM.					

NOTE :

Ld = DEVELOPMENT LENGTH OF RE-BARS ABOVE VALUES SHALL BE THE MINIMUM SPLICE OR DEVELOPMENT LENGTH. ADDITIONAL MODIFICATION FACTORS OF ACI (CHAPTER 12) SHALL BE USED WHEREVER APPLICABLE. 36MM.Ø BARS FOR BEAMS SHALL NOT BE BUNDLED.

REMOVAL OF FORMS & SHORINGS

STRUCTURAL ELEMENTS	CLEAR SPAN BETWEEN SUPPORTS	MINIMUM TIME PERIOD (DAYS)
WALLS, COLUMNS, BEAMS, GIRDER SIDES & SLAB ON GRADE	-	1
JOIST, BEAMS & GIRDER SOFFIT	UNDER 3.00 M.	7
	3.00 M. TO 6.00 M.	14
	OVER 6.00 M.	21
ONE-WAY FLOOR SLABS	UNDER 3.00 M.	4
	3.00 M. TO 6.00 M.	7
	OVER 6.00 M.	10

CAMBER REQUIREMENT

ELEMENT	MINIMUM CAMBER
R.C. BEAMS	6MM. FOR EVERY 4.50 M. SPAN
CANTILEVER R.C. BEAMS	18MM. FOR EVERY 3.00 M. SPAN
R.C. SLABS	3MM FOR EVERY 3.00 M. SHORTER SPAN

NOTE:

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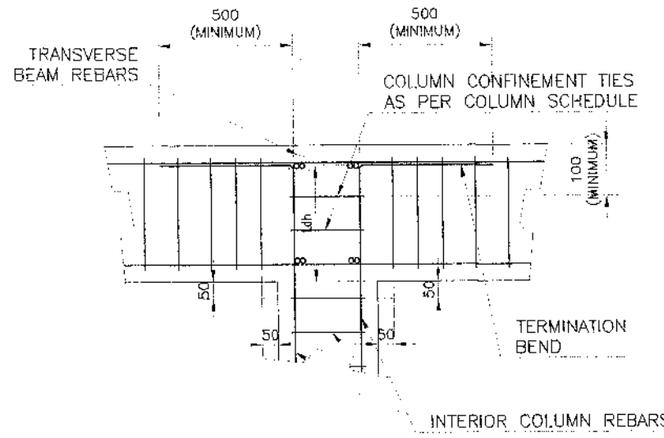
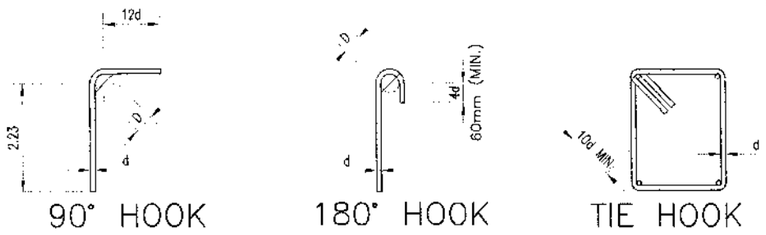


INTERIOR COLUMN TERMINATION BEND

1D / S 3 SCALE NOT TO SCALE



BAR SIZE	D	
	90° HOOK	180° HOOK
10mmØ THRU 25mmØ	6d	4d
28mmØ THRU 36mmØ	8d	4d

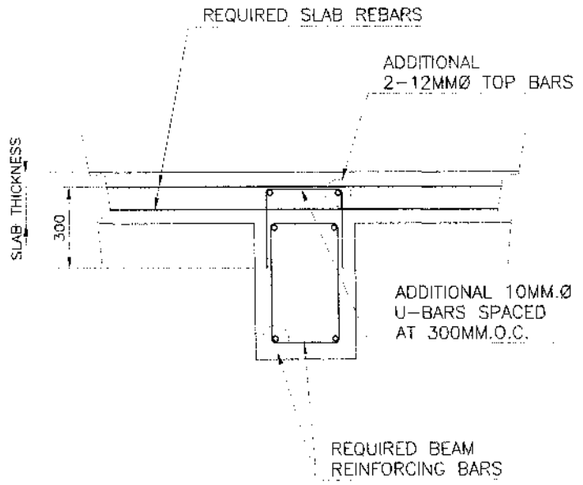
NOTE:

1. ALL BENDS SHOWN IN DETAILS/SCHEDULES SHALL BE STANDARD HOOK UNLESS OTHERWISE NOTED.
2. 180° HOOKS MAY BE SUBSTITUTED FOR 90° HOOKS.

OFFSET LAP SPLICE

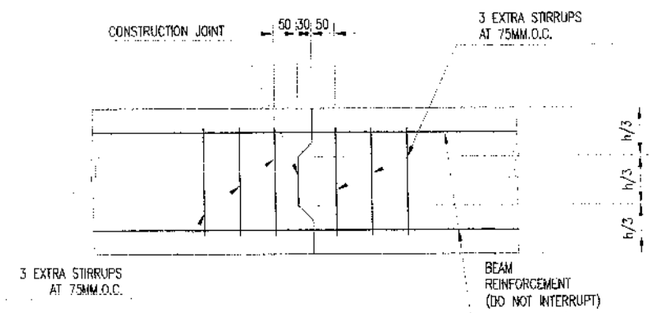
TYP. REINFORCEMENT DETAIL

1A / S 3 SCALE NOT TO SCALE



DETAILED SECTION

1B / S 3 SCALE NOT TO SCALE



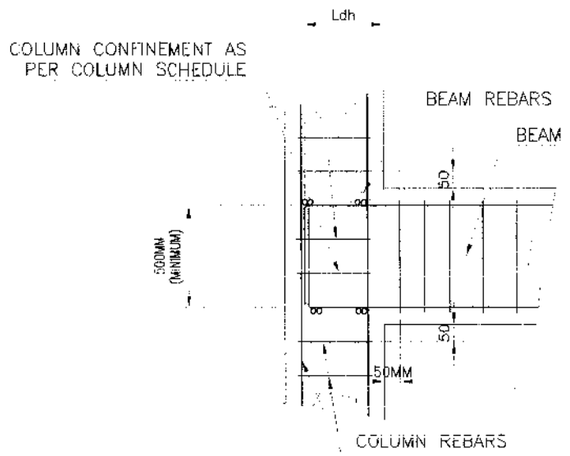
BEAM CONSTRUCTION JOINT

1C / S 3 SCALE NOT TO SCALE

STANDARD DETAILS

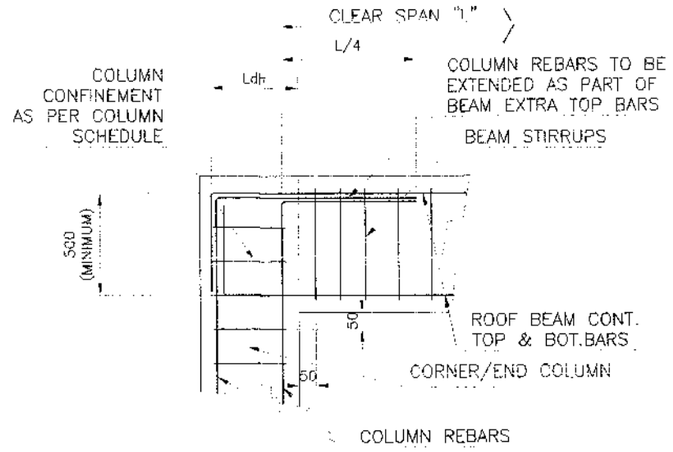
1 / S 3 SCALE NOT TO SCALE

REPUBLIC OF THE PHILIPPINES **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS** REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADIAN CITY	PROJECT NAME AND LOCATION: **CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR**	SHEET CONTENTS: • AS SHOWN	PREPARED: CARMELITO A. PENALES JR. ENGINEER II DATE: 03/24/25	REVIEWED: GRACE Y. COMALING ENGINEER II ASST. CHIEF, PLANNING & DESIGN SECTION DATE: 03/25/25	SUBMITTED: BRIAN P. MONTEVERDE ENGINEER III CHIEF, PLANNING & DESIGN SECTION DATE: 03/28/25	RECOMMENDED: MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 03/29/25	APPROVED: PASCUAL ESCUADRO, MPA ASSISTANT ENGINEER DATE: 04/01/25	SET NO. 03 S37	SHEET NO. 43 98



BEAM RE-BAR TERMINATION BEND

1A / S 4 SCALE NOT TO SCALE

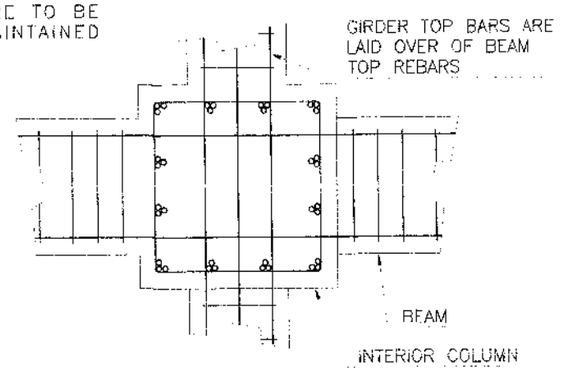


CORNER/ EXTERIOR TERMINATION BEND

1B / S 4 SCALE NOT TO SCALE

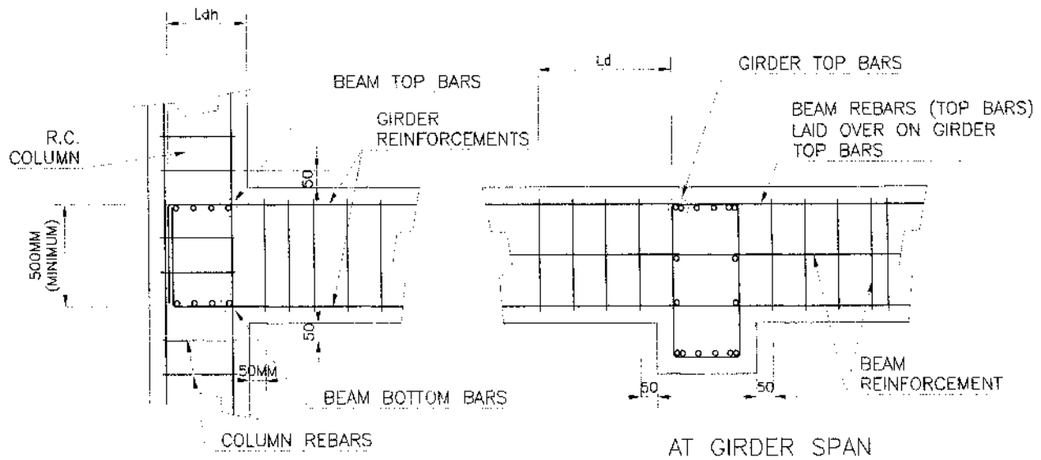
NOTE :

CLEAR DISTANCE BETWEEN RE-BARS ARE TO BE STRICTLY MAINTAINED



TYP. PLAN OF BEAM/ GIRDER COL. JOINT

1C / S 4 SCALE NOT TO SCALE



AT COLUMN INTERSECTION

TYPICAL BEAM AND GIRDER RE-BAR LAYOUT

1D / S 4 SCALE NOT TO SCALE

NOTE:

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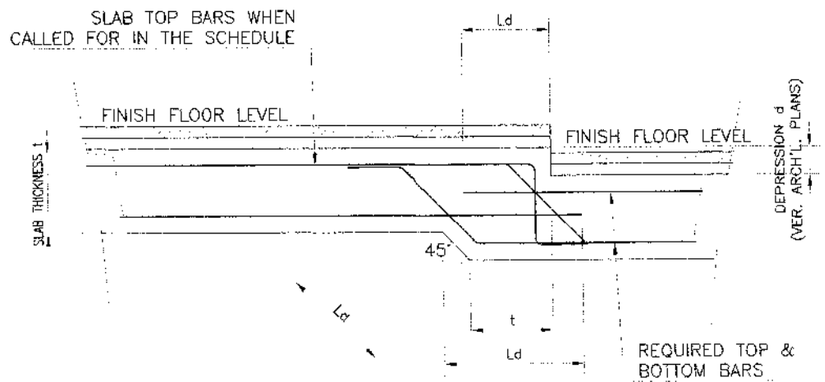
STANDARD DETAILS

1 / S 4 SCALE NOT TO SCALE



TYP. SLAB DEPRESSION DET.

1E / S 4 SCALE NOT TO SCALE

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
CONSTRUCTION OF SCHOOL BUILDING, BOKONG NATIONAL HIGH SCHOOL, BARANGAY BOKONG, MUNICIPALITY OF LABANGAN, ZAMBOANGA DEL SUR

SHEET CONTENTS:
- AS SHOWN

PREPARED: CARMELITO V. GONZALES, JR. — ENGINEER II — DATE 04/29/25
REVIEWED: GRACE Y. SOMALING — ASST. CHIEF PLANNING AND DESIGN SECTION — DATE 07/28/25
SUBMITTED: BRIAN B. VILLANUEVA — ENGINEER V — CHIEF, PLANNING AND DESIGN SECTION — DATE 07/28/25
RECOMMENDED: MARIA U. FLOREN, ASSISTANT DISTRICT ENGINEER — DATE 07/29/25
APPROVED: PABLO L. BOCUADRO, MPA — DISTRICT ENGINEER — DATE 07/29/25

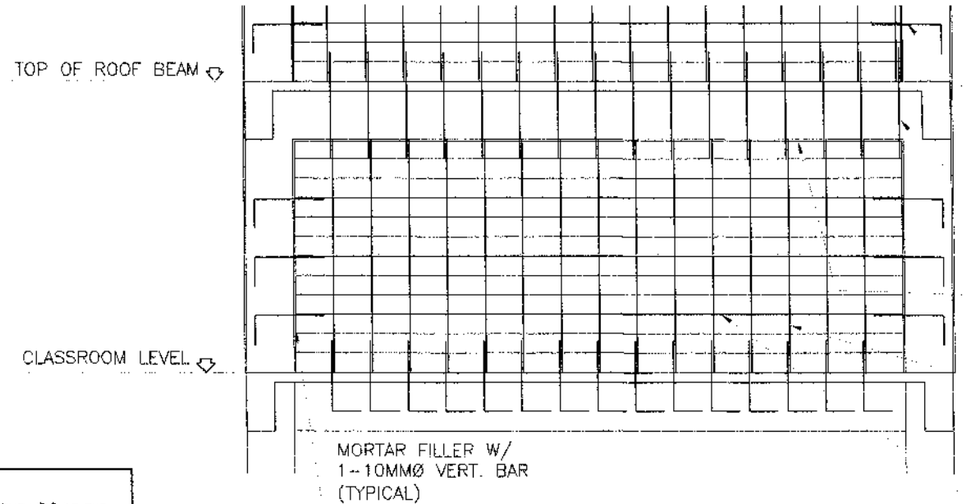
SET NO: 04 S 37
SHEET NO: 44 98

SCHEDULE OF MASONRY WORKS

LINTEL BEAMS					MASONRY	
CHB WALL t (MM.)	B (MM.)	H (MM.)	HORZ. BARS	STIRRUPS	HORIZONTAL BARS	VERTICAL BARS
100	100	200	2-10MMØ	10MMØ @ 300	10MMØ @ 600 MM.O.C.	10MMØ @ 600 MM.O.C.
150	150	200	4-10MMØ	10MMØ @ 300	10MMØ @ 600 MM.O.C.	10MMØ @ 600 MM.O.C.
200	200	200	4-10MMØ	10MMØ @ 300	10MMØ @ 600 MM.O.C.	10MMØ @ 600 MM.O.C.

NOTE :

1. REFER TO ARCHITECTURAL PLANS TO VERIFY LOCATIONS OF ALL CHB WALLS.
2. REFER TO THICKNESS OF FINISHES TO ARCHITECTURAL PLANS.
3. 12MM. THICK GAP SHALL BE PROVIDED IN BETWEEN WALLS & COLUMNS, WALLS & BEAMS, WALLS & SLABS ON TOP.
4. SILICONE SEALANT SHALL BE PROVIDED FOR ALL EXTERNAL WALL (CHB). FOR INTERNAL WALLS SEALANTS NEED NOT BE PROVIDED.
5. STRUCTURAL R.C. WALLS (i.e. WATER TANK, ETC.) SHALL NOT BE PROVIDED W/ 12MM THK. GAPS ALL AROUND.
6. STRUCTURAL GAPS SHALL IN NO CASE BE COVERED W/ PLASTER.



1A / S 5 **TYPICAL MASONRY ELEVATION**
SCALE NOT TO SCALE

NOTE:

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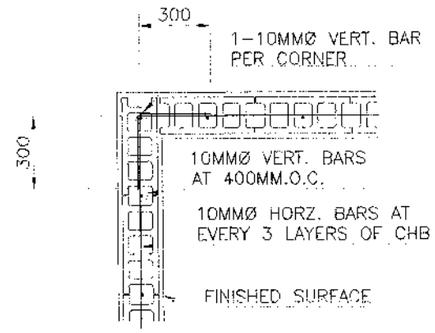
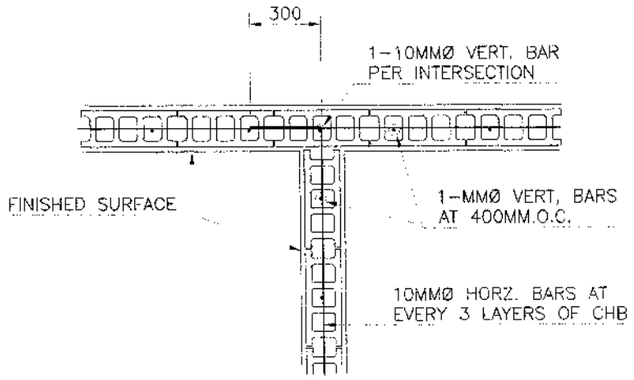
1 / S 5 **STANDARD DETAILS**
SCALE NOT TO SCALE



1B / S 5 **CORNER WALL DETAIL**
SCALE NOT TO SCALE



1C / S 5 **WALL INTERSECTION**
SCALE NOT TO SCALE

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PAGADIAN CITY

PROJECT NAME AND LOCATION:
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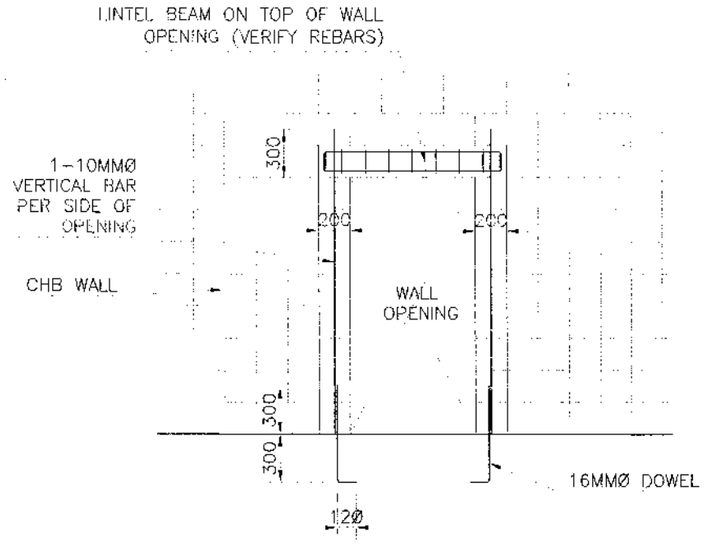
SHEET CONTENTS
- AS SHOWN

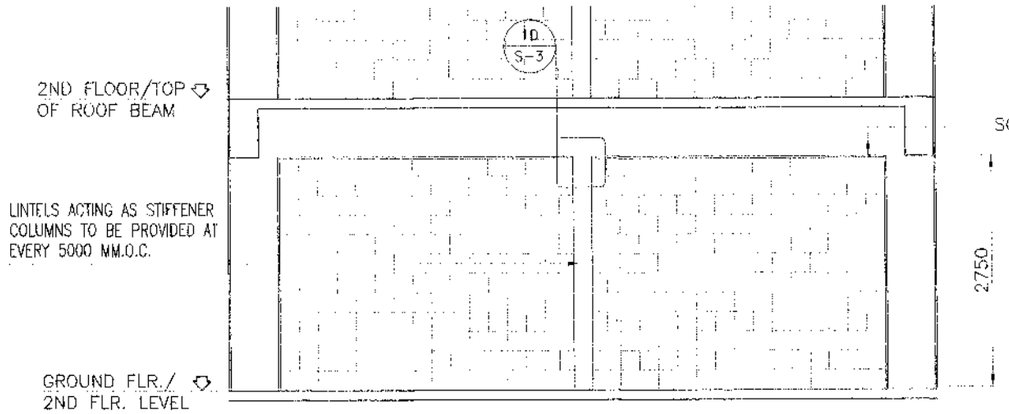
PREPARED	REVIEWED	SUBMITTED	RECOMMENDED	APPROVED
CARMELITO A. PEÑALES JR.	GRACELY C. OMALING	BRIAN R. VILLARUEVA	MARIA U. FLOREN	PABLO L. ESGUADRO, MPA
ENGINEER II	ENGINEER II	ENGINEER III	ASSISTANT DISTRICT ENGINEER	DISTRICT ENGINEER
DATE 04/29/25	DATE 04/29/25	CHIEF, PLANNING AND DESIGN SECTION DATE 04/29/25	DATE 04/29/25	DATE 04/29/25

SET NO. 05 S37
SHEET NO. 45 98



1A S 6 **TYP. CHB WALL OPENING ELEV.**

SCALE NOT TO SCALE



1B S 6 **TYP. CHB ELEV. SHOWING LOCATION OF LINTEL BEAMS & STIFFENER COLUMNS**

SCALE NOT TO SCALE

NOTE:

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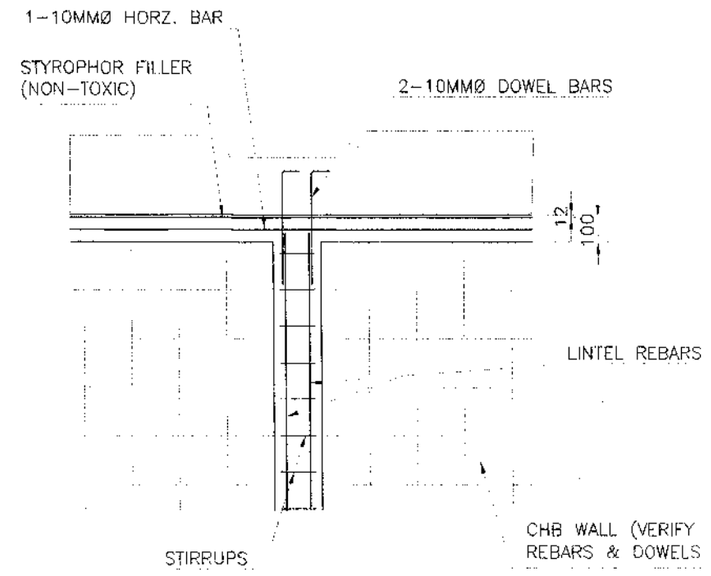
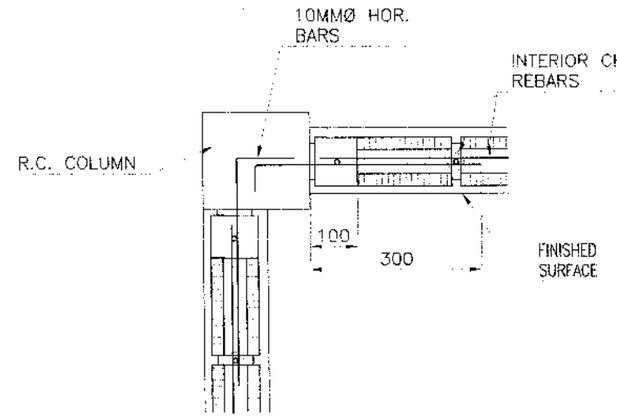


1C S 6 **TOP ANCHORAGE OF LINTEL ACTING AS STIFFENER COLUMN**

SCALE NOT TO SCALE

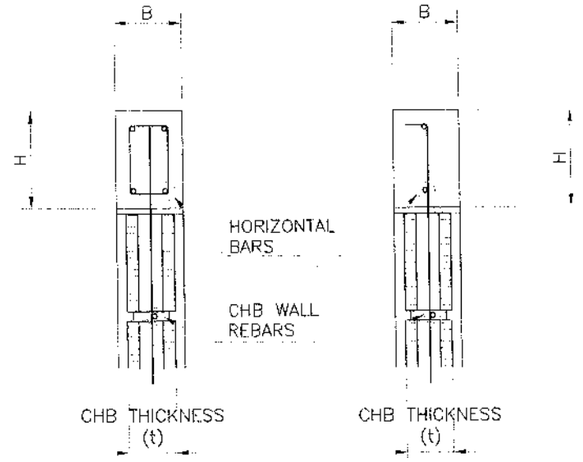


1D S 6 **CHB EXTERIOR WALL SIDE ANCHORAGE DET.**

SCALE NOT TO SCALE

1 S 6 **STANDARD DETAILS**

SCALE NOT TO SCALE



1E S 6 **TYPICAL LINTEL BEAM DETAIL**

SCALE NOT TO SCALE

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SHEET CONTENTS: • AS SHOWN

PREPARED: **CARMELITO A. GONALES JR.** ENGINEER I — DATE: 07/29/25

REVIEWED: **GRACE Y. GOMALING** ASST. CHIEF, PLANNING DESIGN SECTION — DATE: 07/29/25

SUBMITTED: **BRIAN F. VILLANUEVA** ENGINEER II, CHIEF, PLANNING AND DESIGN SECTION — DATE: 07/29/25

RECOMMENDED: **MARIA U. FLOREN** ASSISTANT DISTRICT ENGINEER — DATE: 07/29/25

APPROVED: **PABLO L. ESCUADRO, MPA** DISTRICT ENGINEER — DATE: 07/29/25

SET NO: 06 S 37 — SHEET NO: 46 98